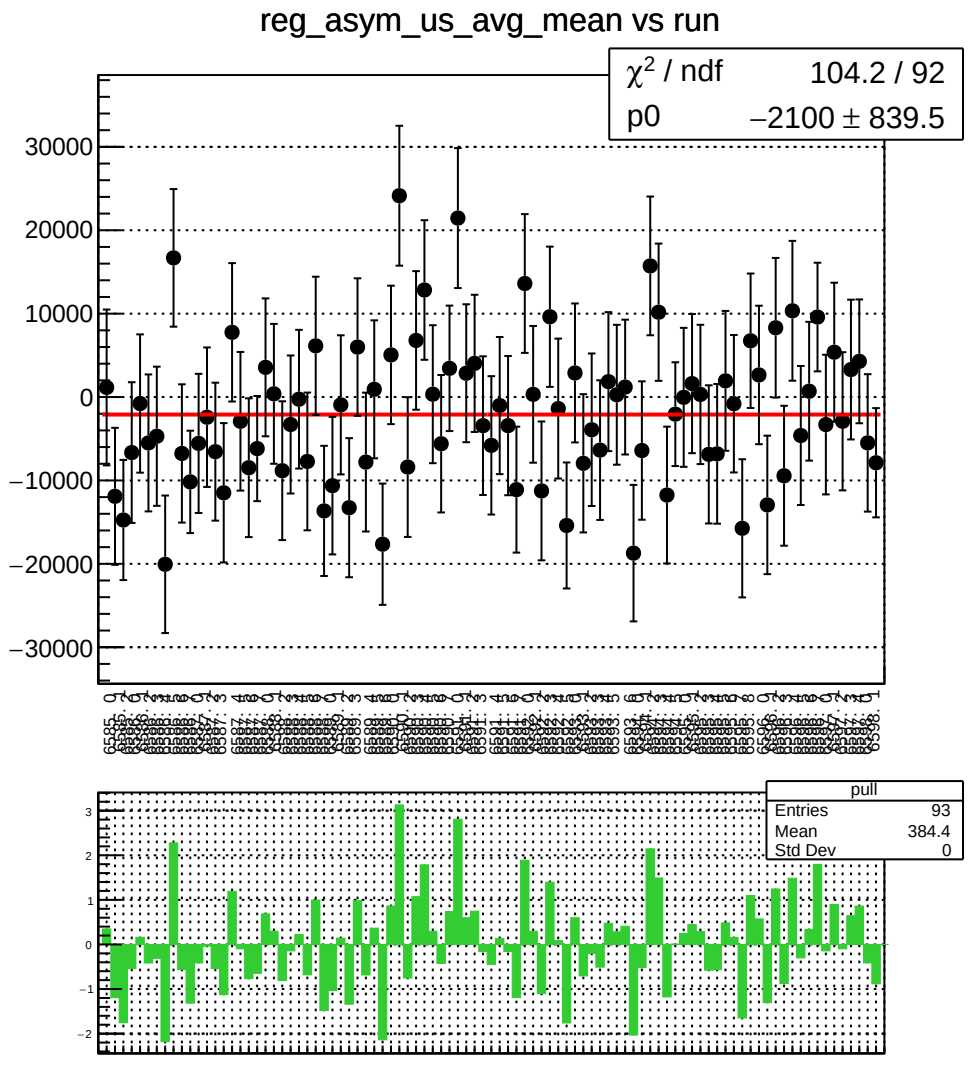
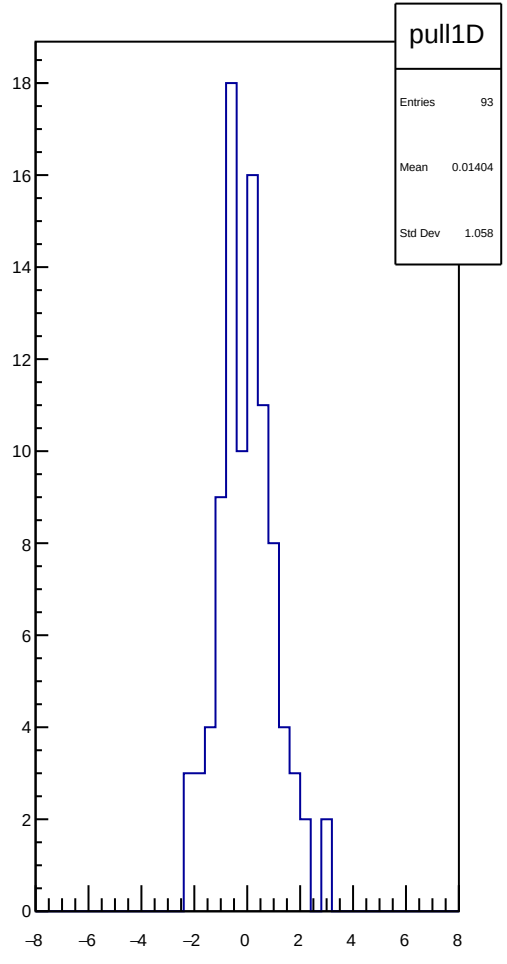
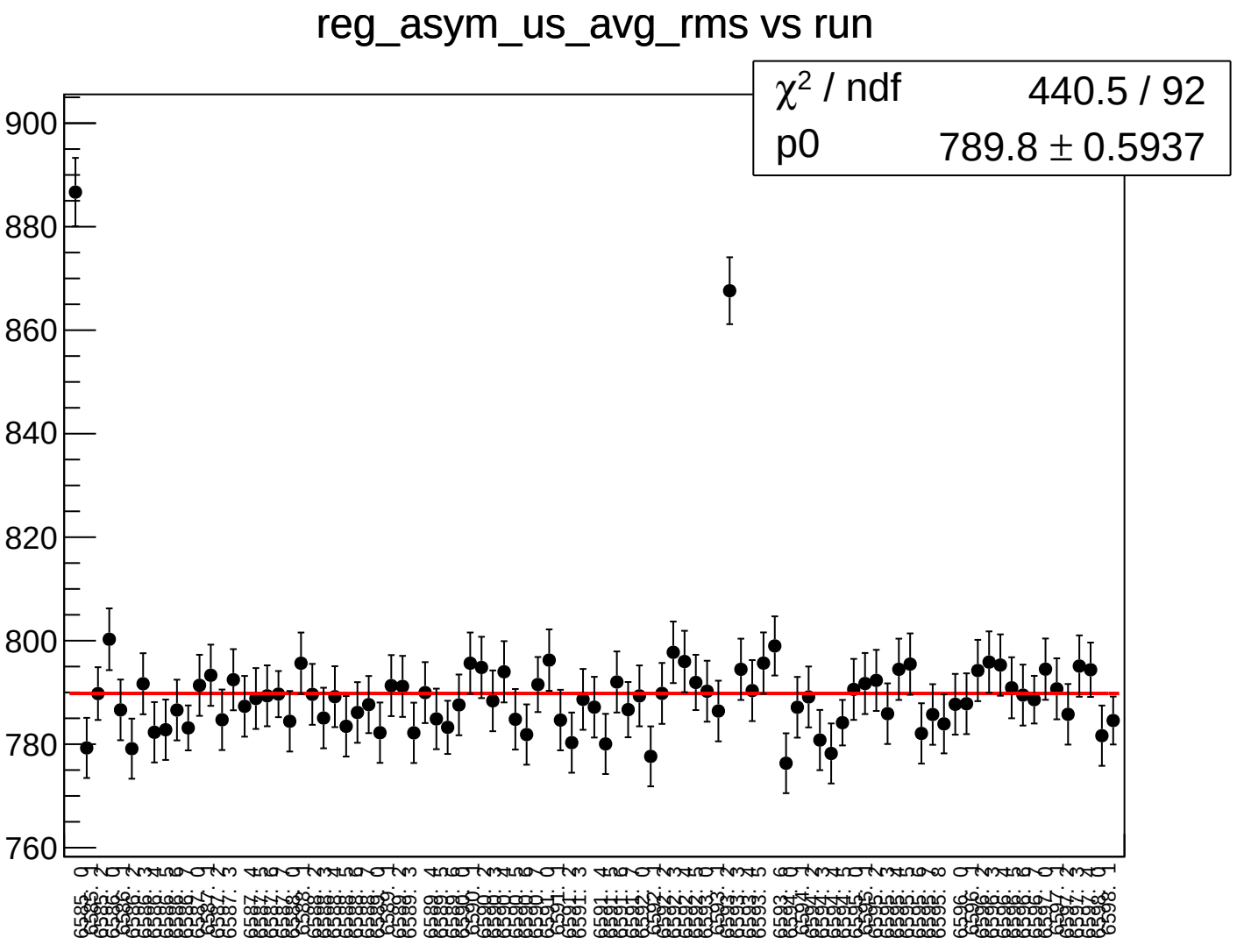
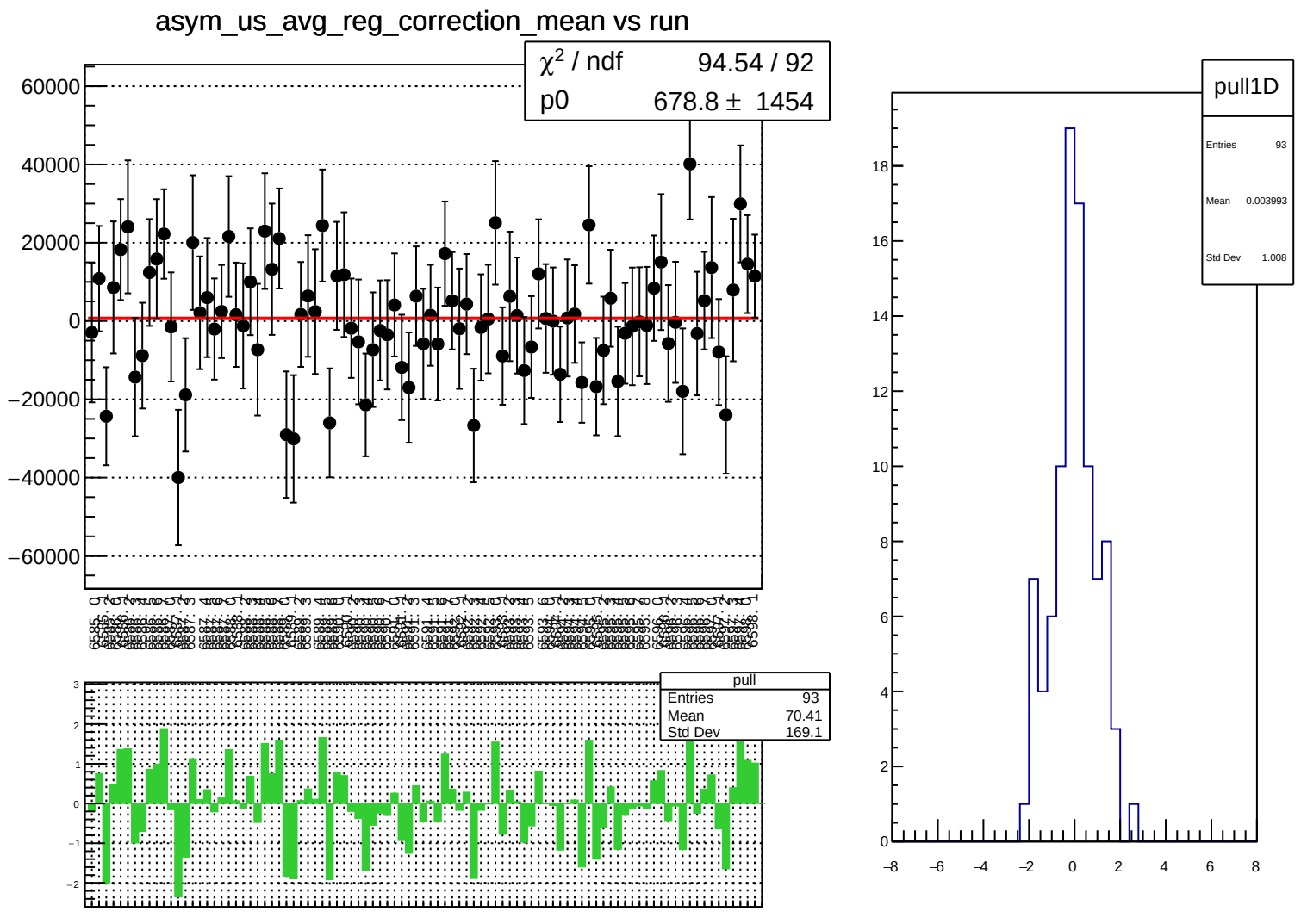

reg_asym_us_avg_mean vs run
χ² / ndf 104.2 / 92
p0 −2100 ± 839.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 384.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.01404
Std Dev 1.058
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
χ^2 / ndf 440.5 / 92
p0 789.8 ± 0.5937
900
880
860
840
820
800
780
760


asym_us_avg_reg_correction_mean vs run
χ² / ndf 94.54 / 92
p0 678.8 ± 1454
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 70.41
Std Dev 169.1
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003993
Std Dev 1.008
18
16
14
12
10
8
6
4
2
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−8
−6
−4
−2
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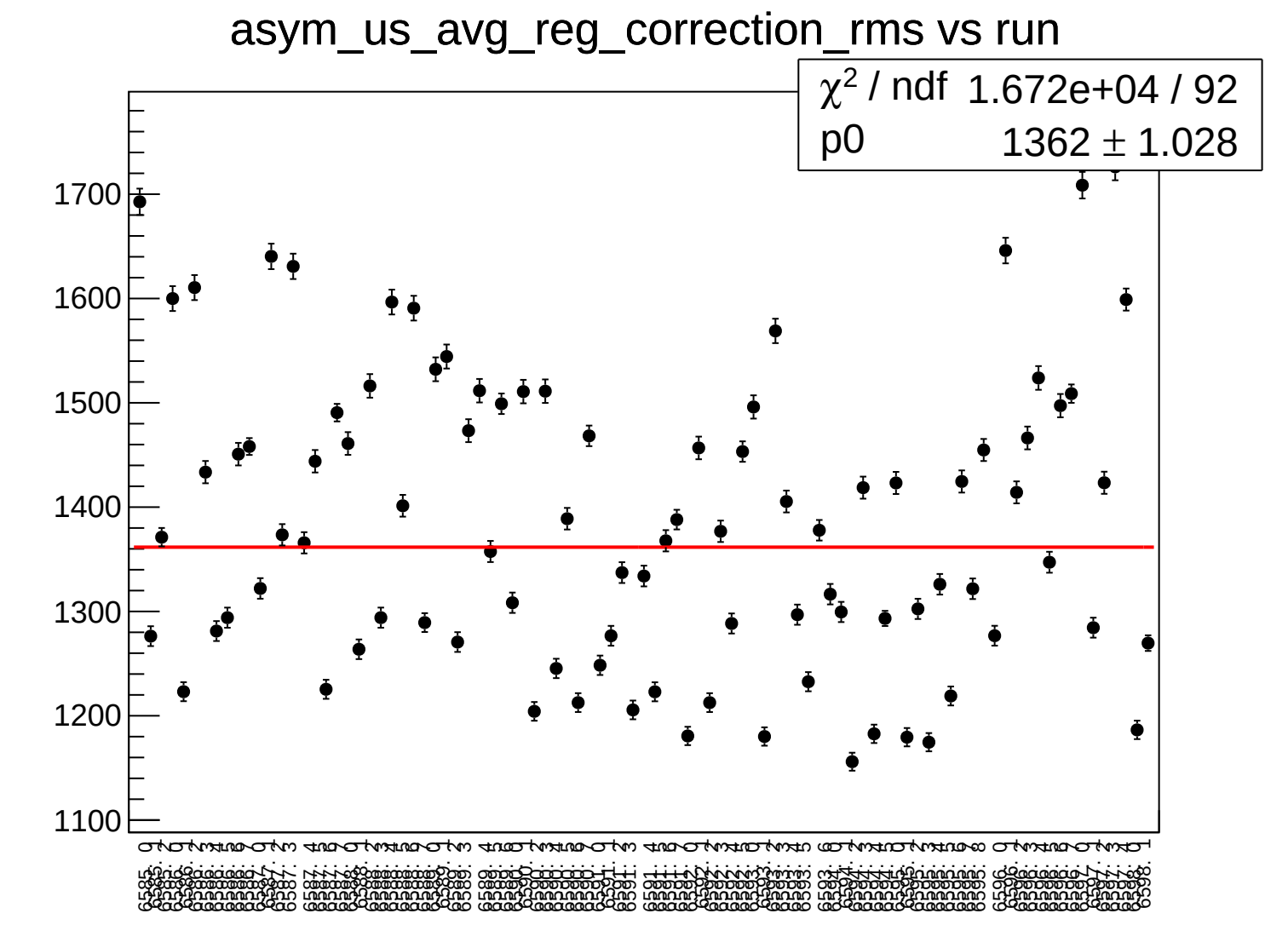
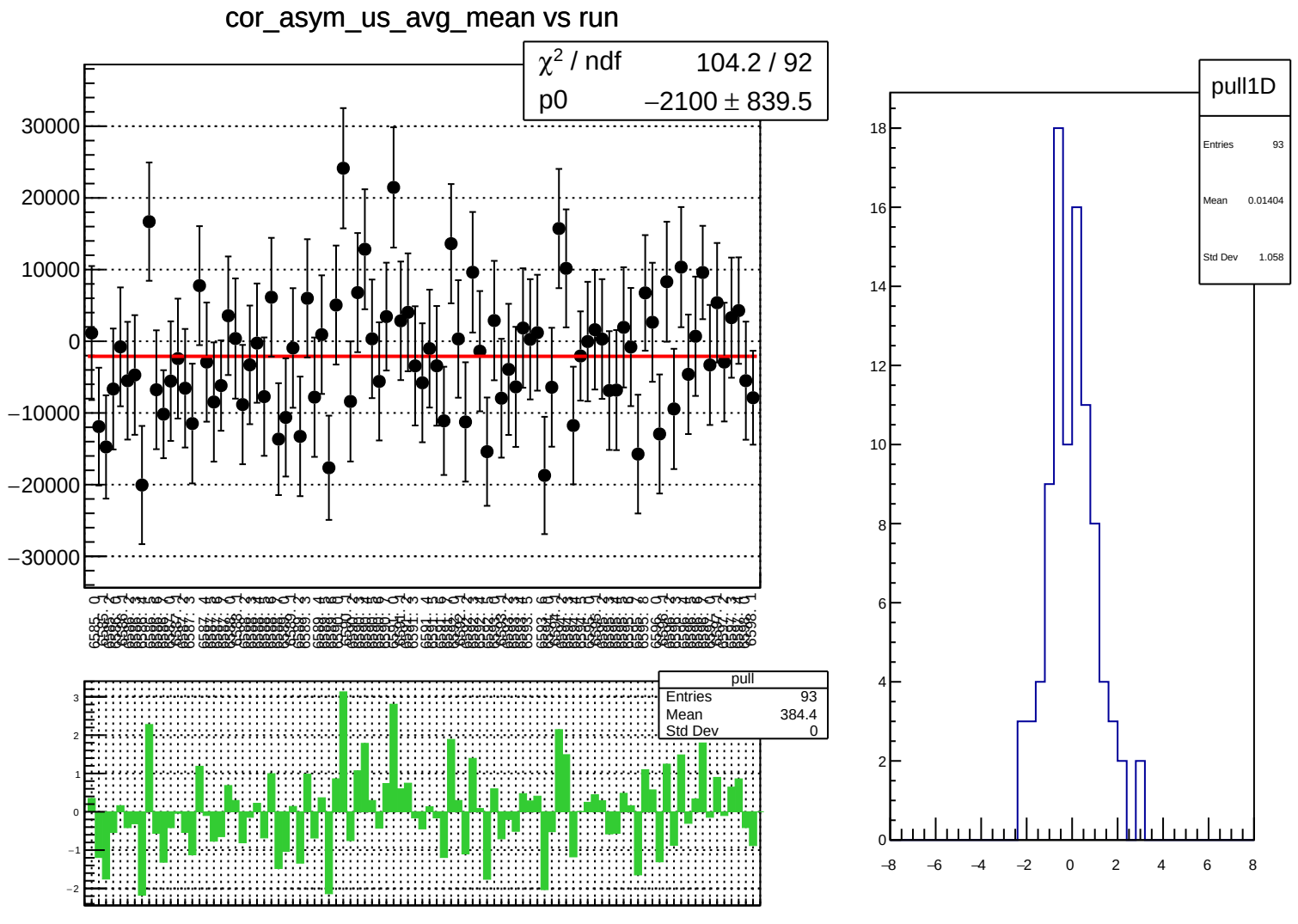
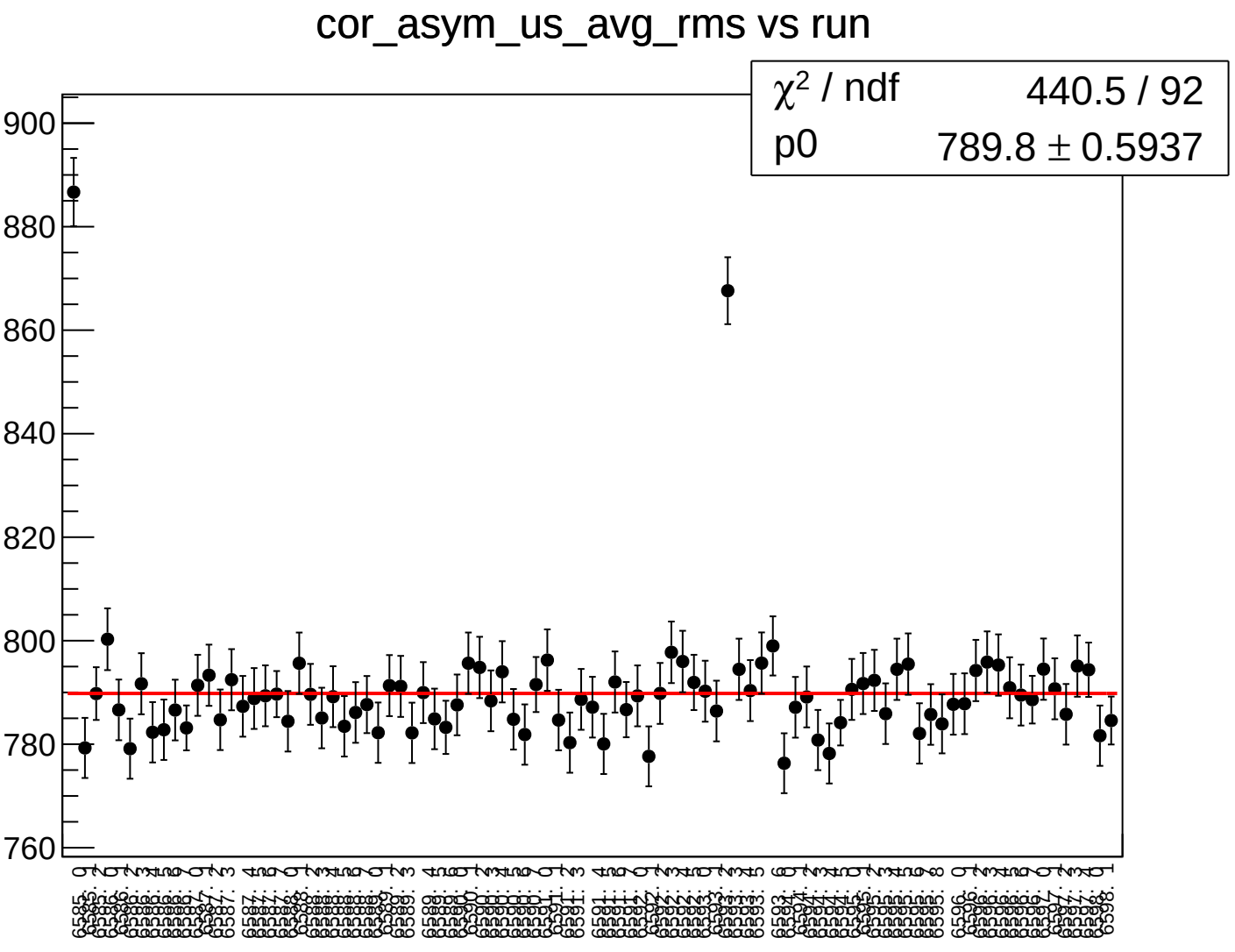
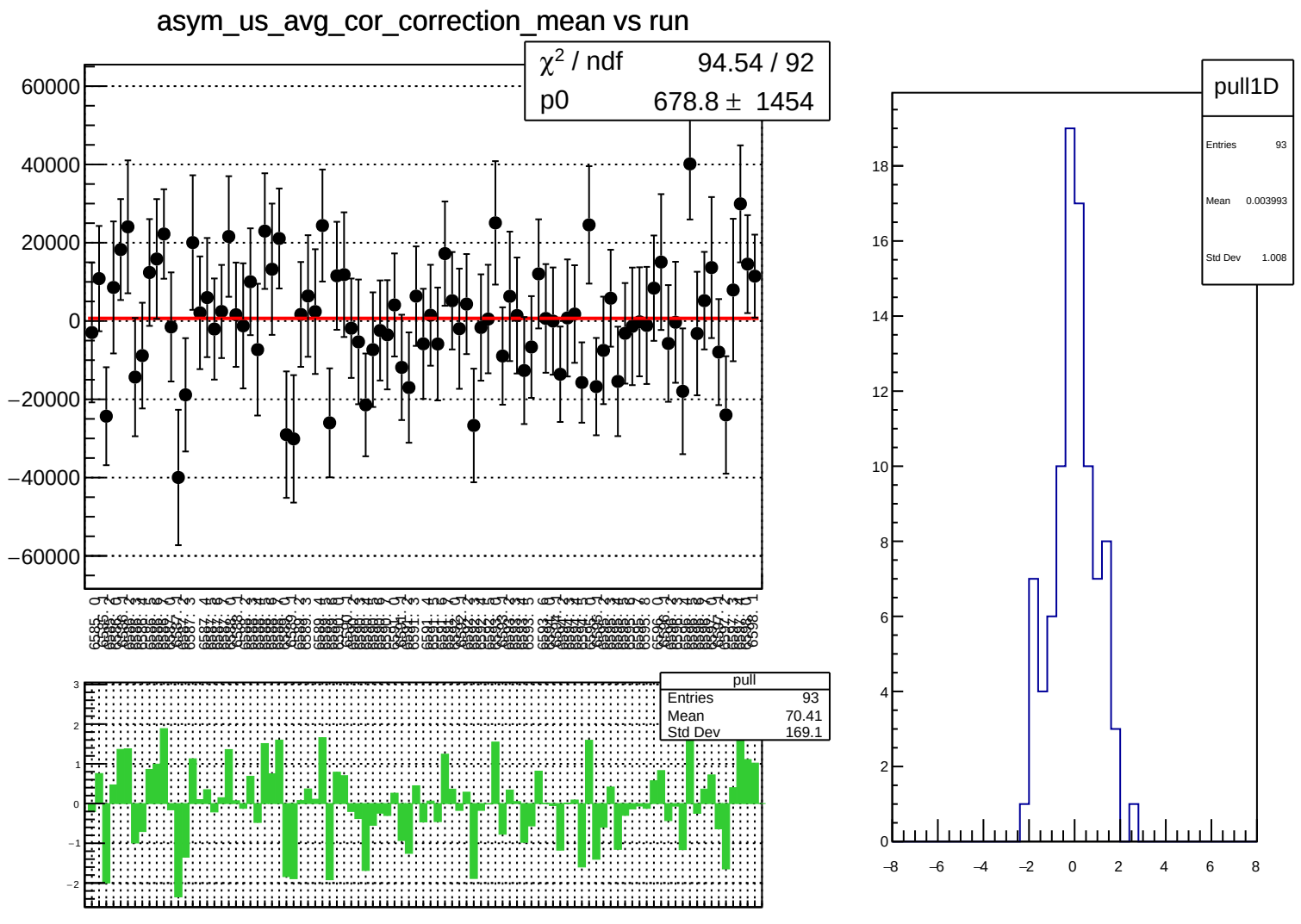
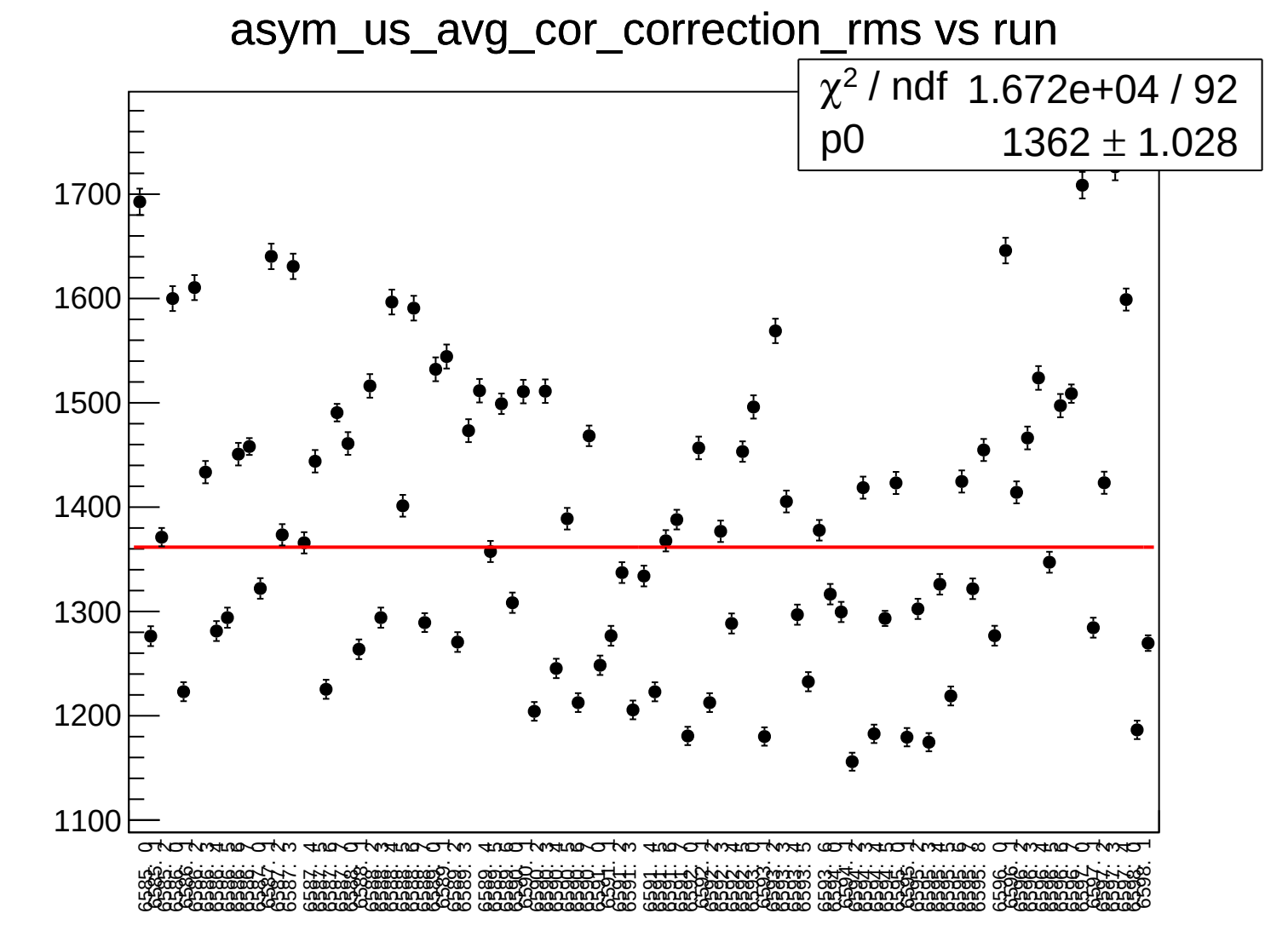
2
4
6
8

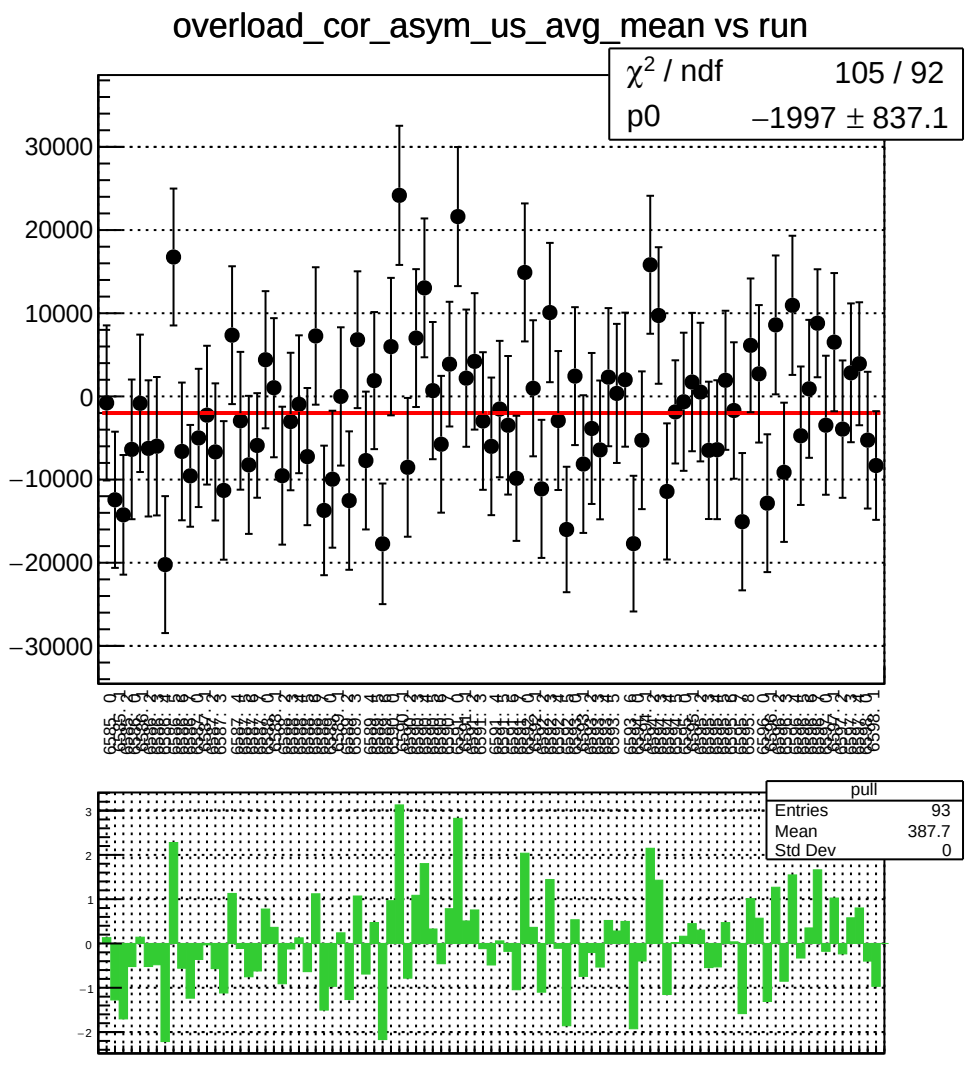

asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.672e+04 / 92
p0 1362 ± 1.028
1700
1600
1500
1400
1300
1200
1100

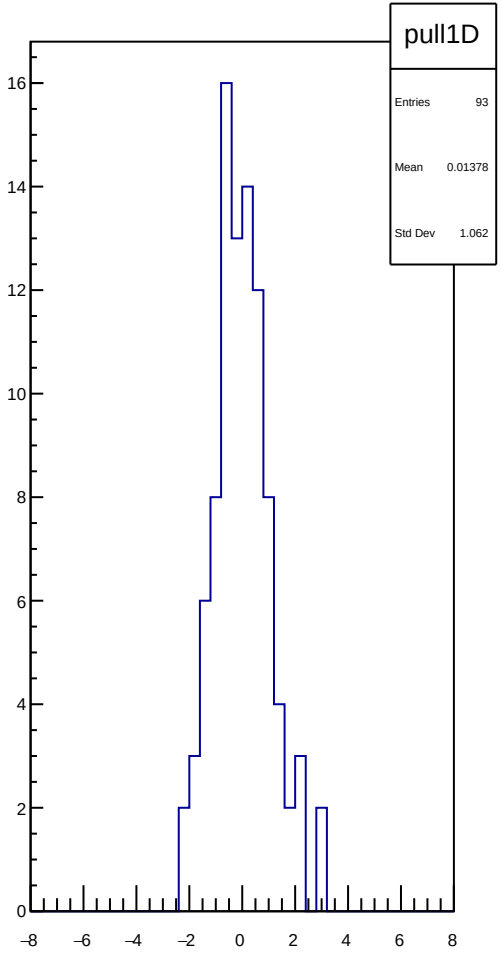

cor_asym_us_avg_mean vs run
χ² / ndf 104.2 / 92
p0 −2100 ± 839.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 384.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01404
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_rms vs run
χ^2 / ndf 440.5 / 92
p0 789.8 ± 0.5937
900
880
860
840
820
800
780
760


asym_us_avg_cor_correction_mean vs run
χ² / ndf 94.54 / 92
p0 678.8 ± 1454
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 70.41
Std Dev 169.1
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003993
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ^2 / ndf 1.672e+04 / 92
p0 1362 ± 1.028
1700
1600
1500
1400
1300
1200
1100


overload_cor_asym_us_avg_mean vs run
χ² / ndf 105 / 92
p0 −1997 ± 837.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 387.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.01378
Std Dev 1.062
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14
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10
8
6
4
2
0
−8
−6
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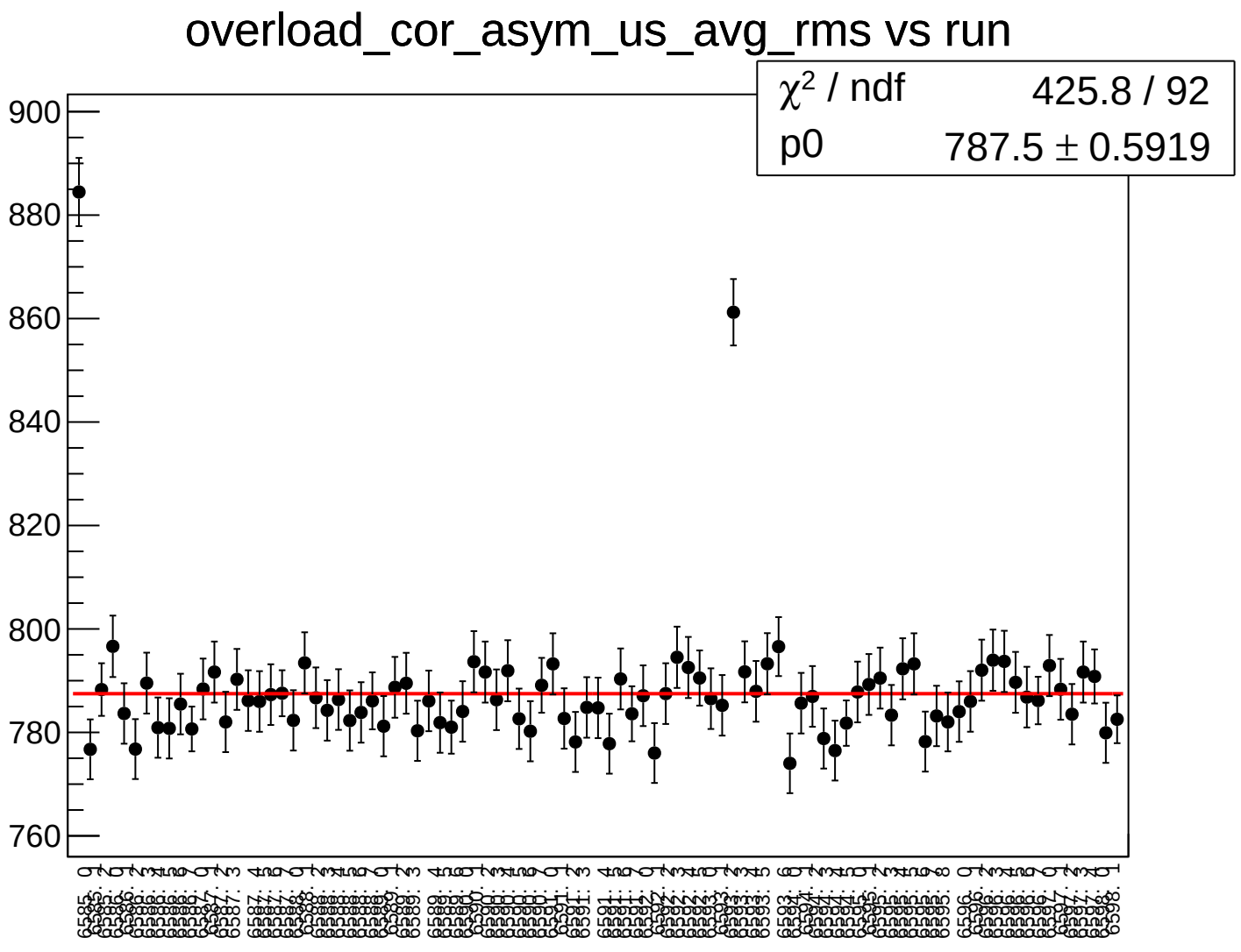
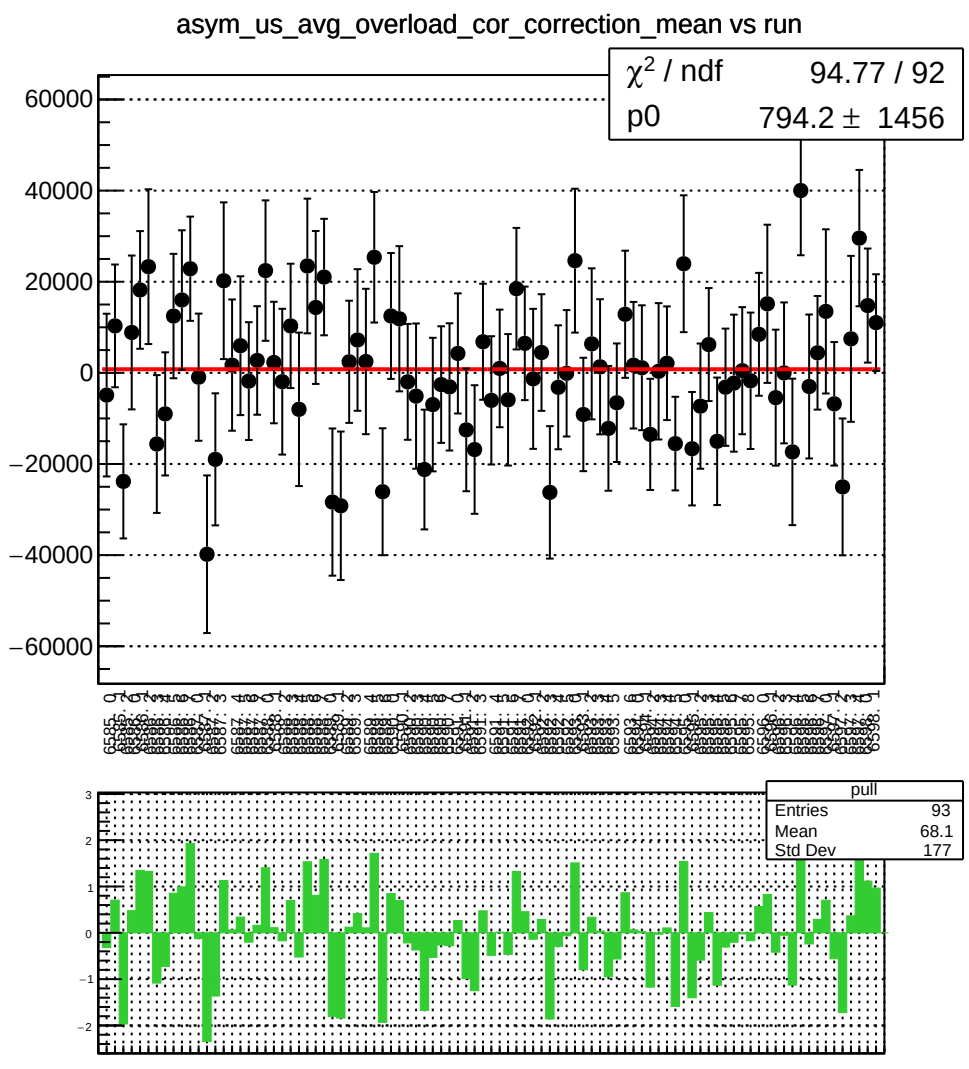
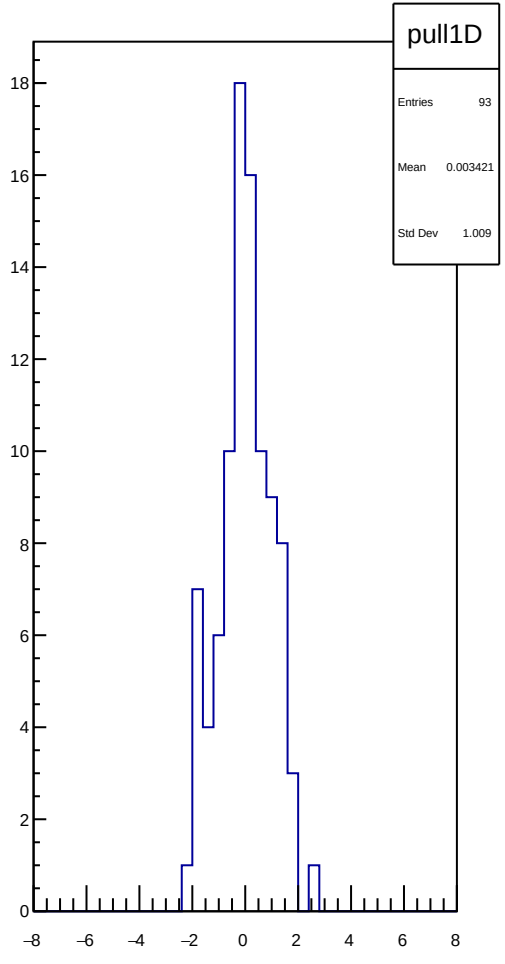
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ^2 / ndf 425.8 / 92
p0 787.5 ± 0.5919
900
880
860
840
820
800
780
760


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 94.77 / 92
p0 794.2 ± 1456
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 68.1
Std Dev 177
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.003421
Std Dev 1.009
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16
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12
10
8
6
4
2
0
−8
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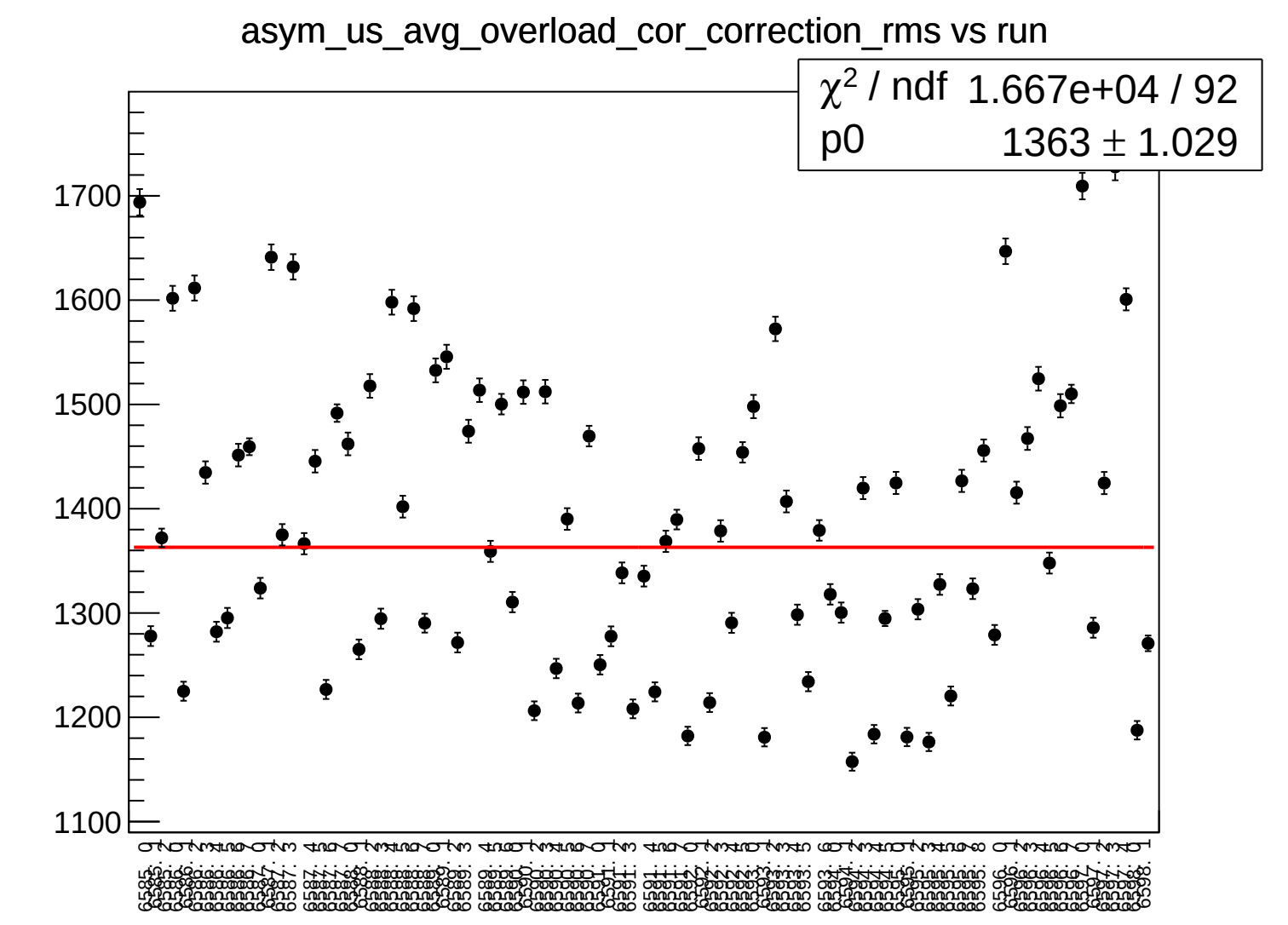
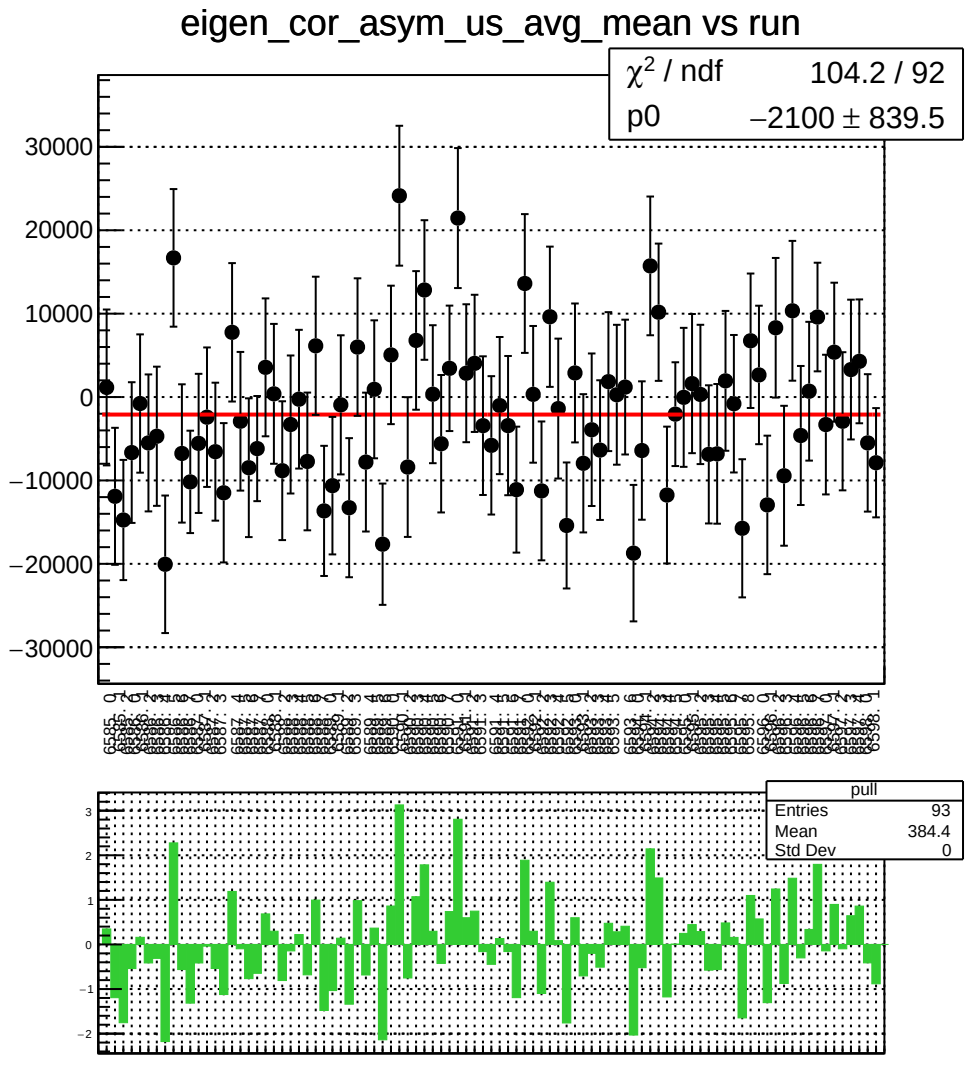
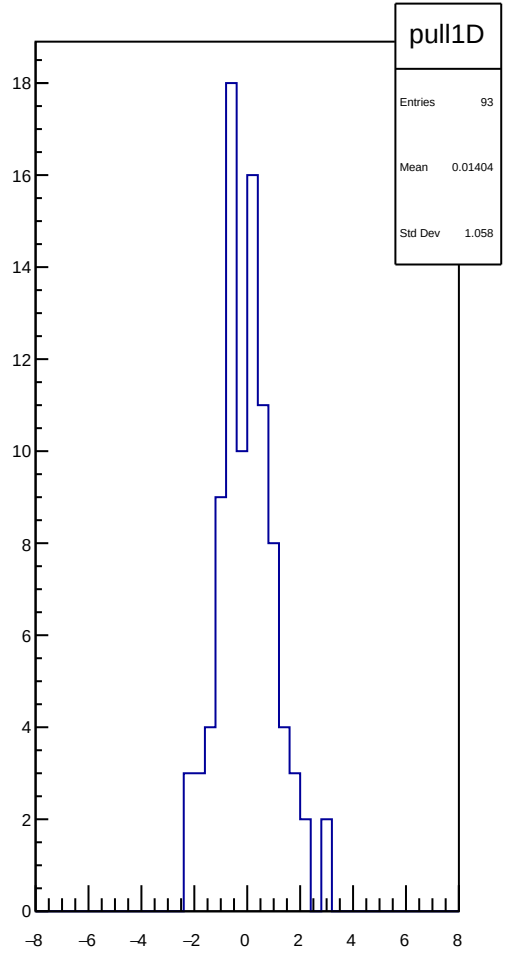
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.667e+04 / 92
p0 1363 ± 1.029
1700
1600
1500
1400
1300
1200
1100


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 104.2 / 92
p0 −2100 ± 839.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 384.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.01404
Std Dev 1.058
18
16
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12
10
8
6
4
2
0
−8
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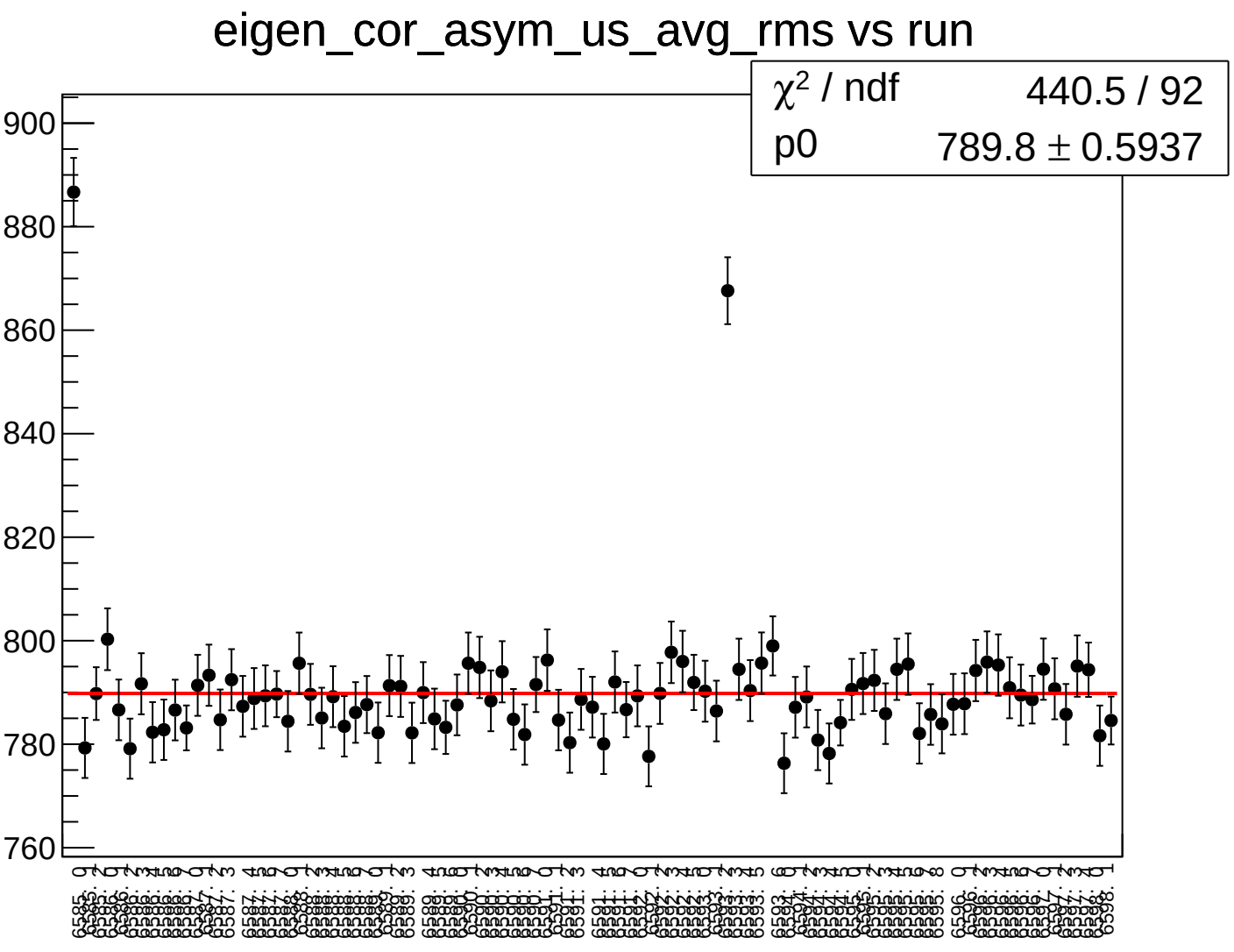
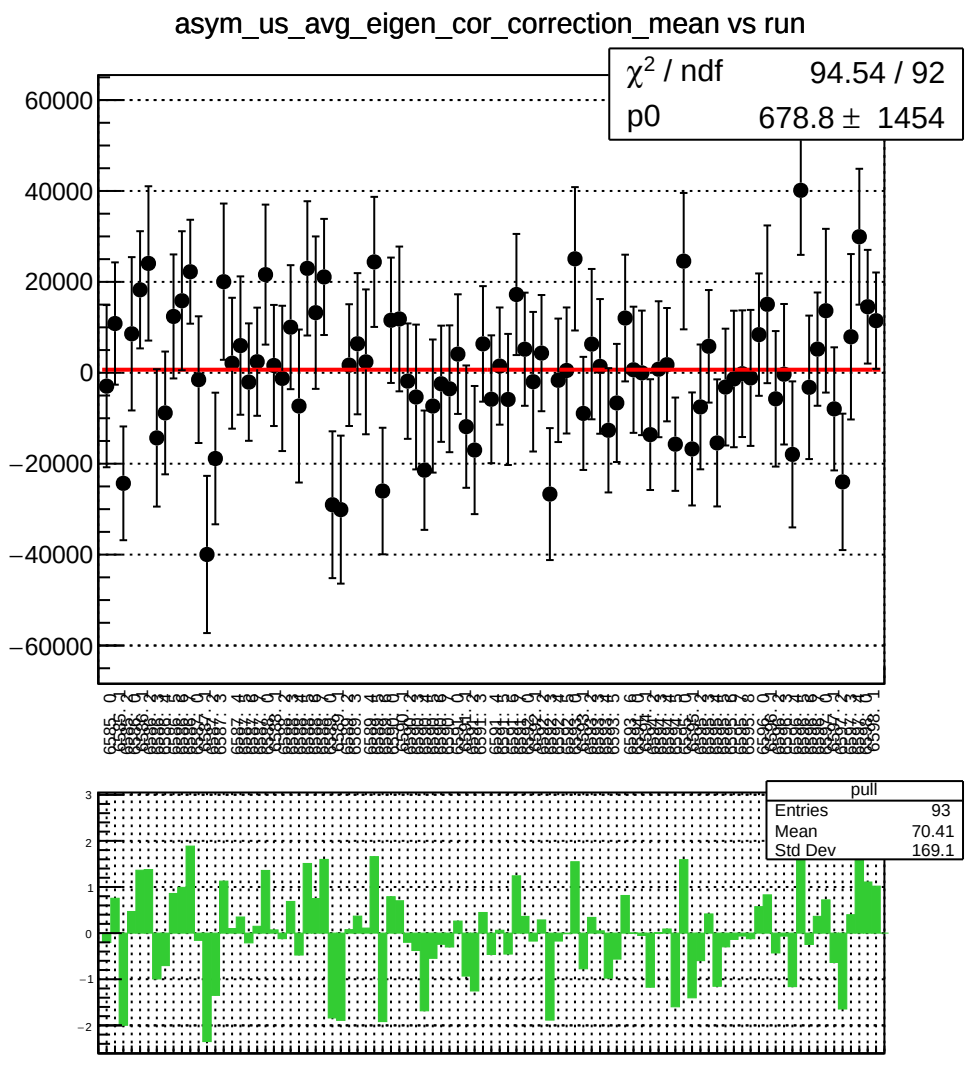
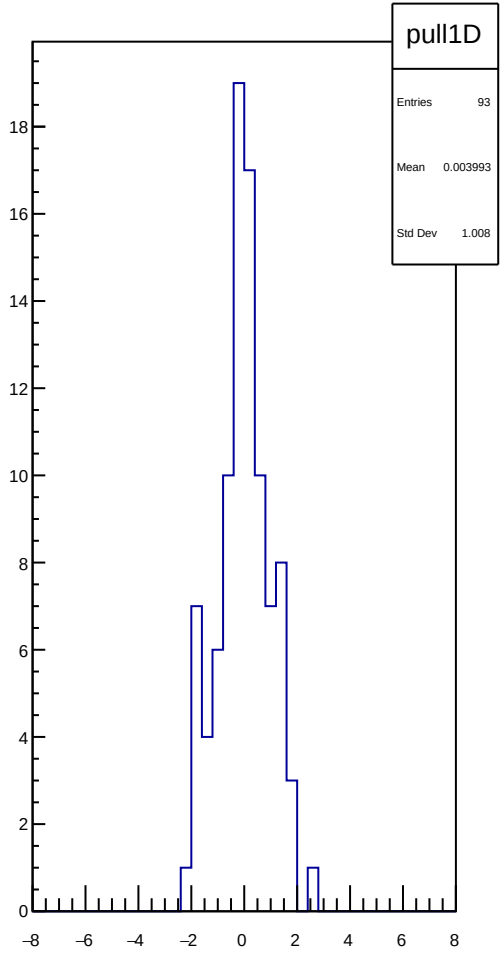
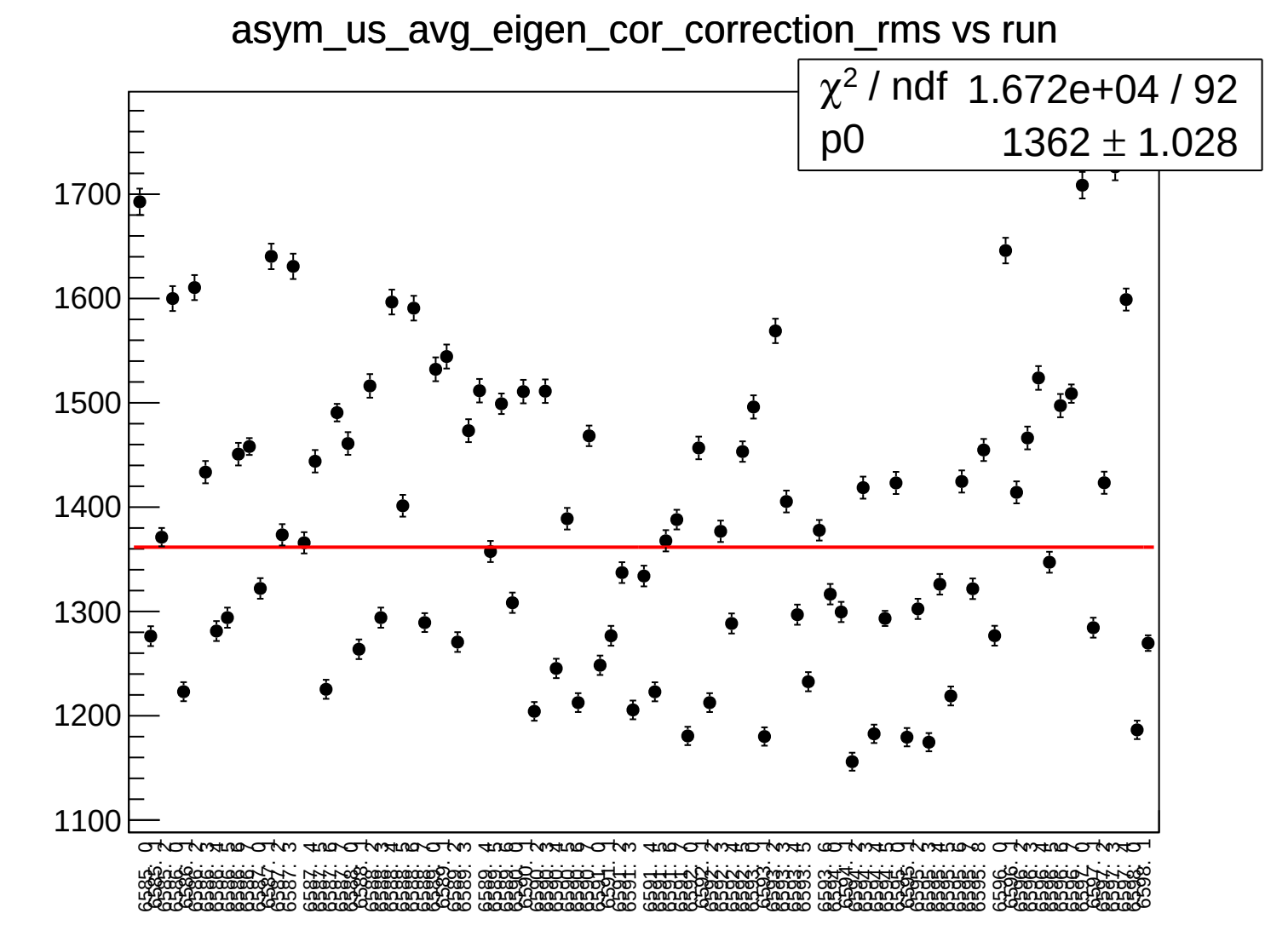
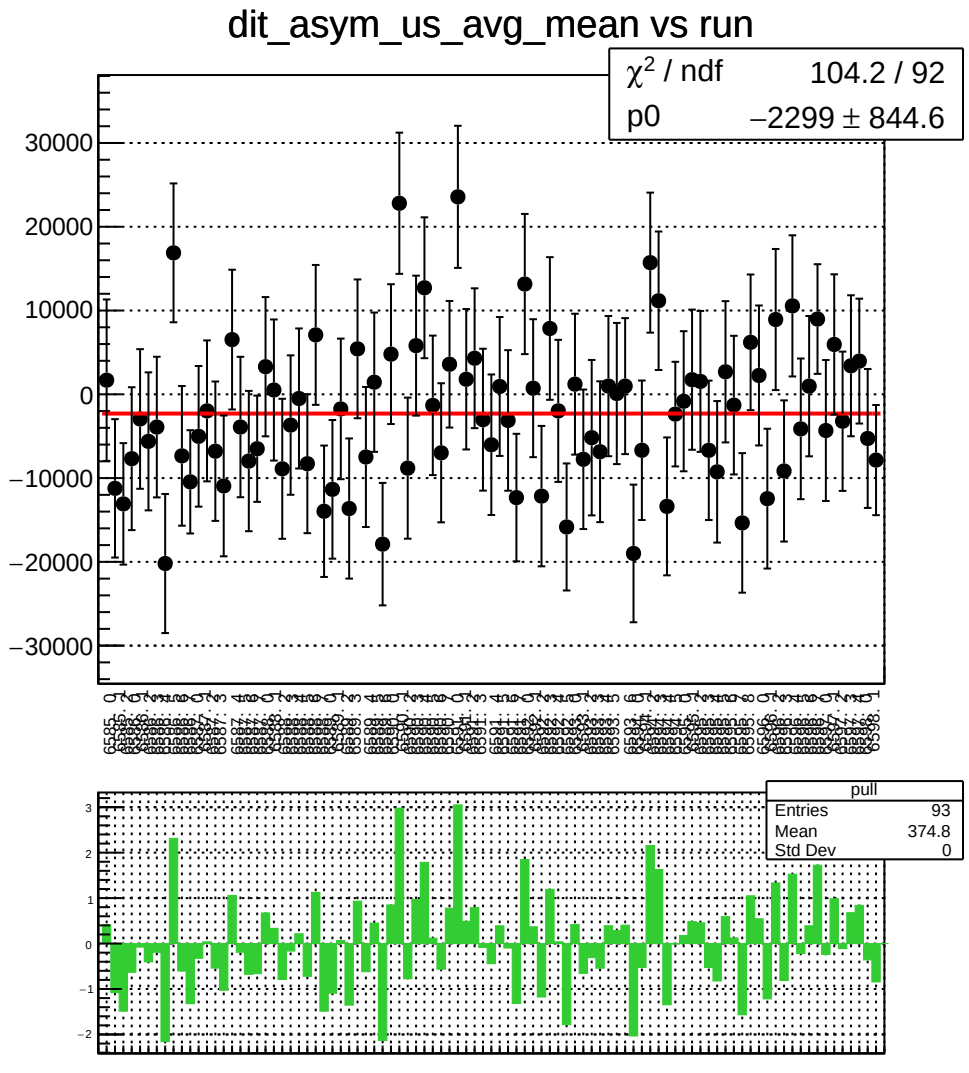
2
4
6
8

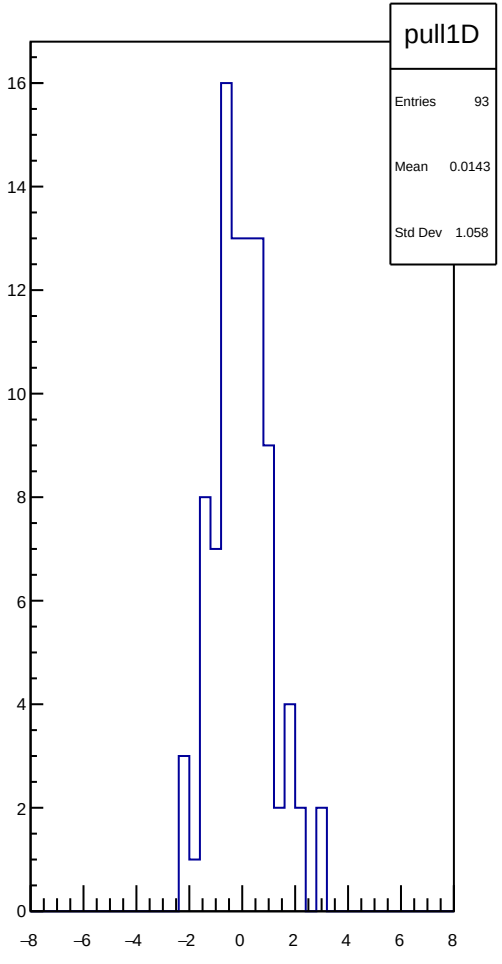

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 440.5 / 92
p0 789.8 ± 0.5937
900
880
860
840
820
800
780
760

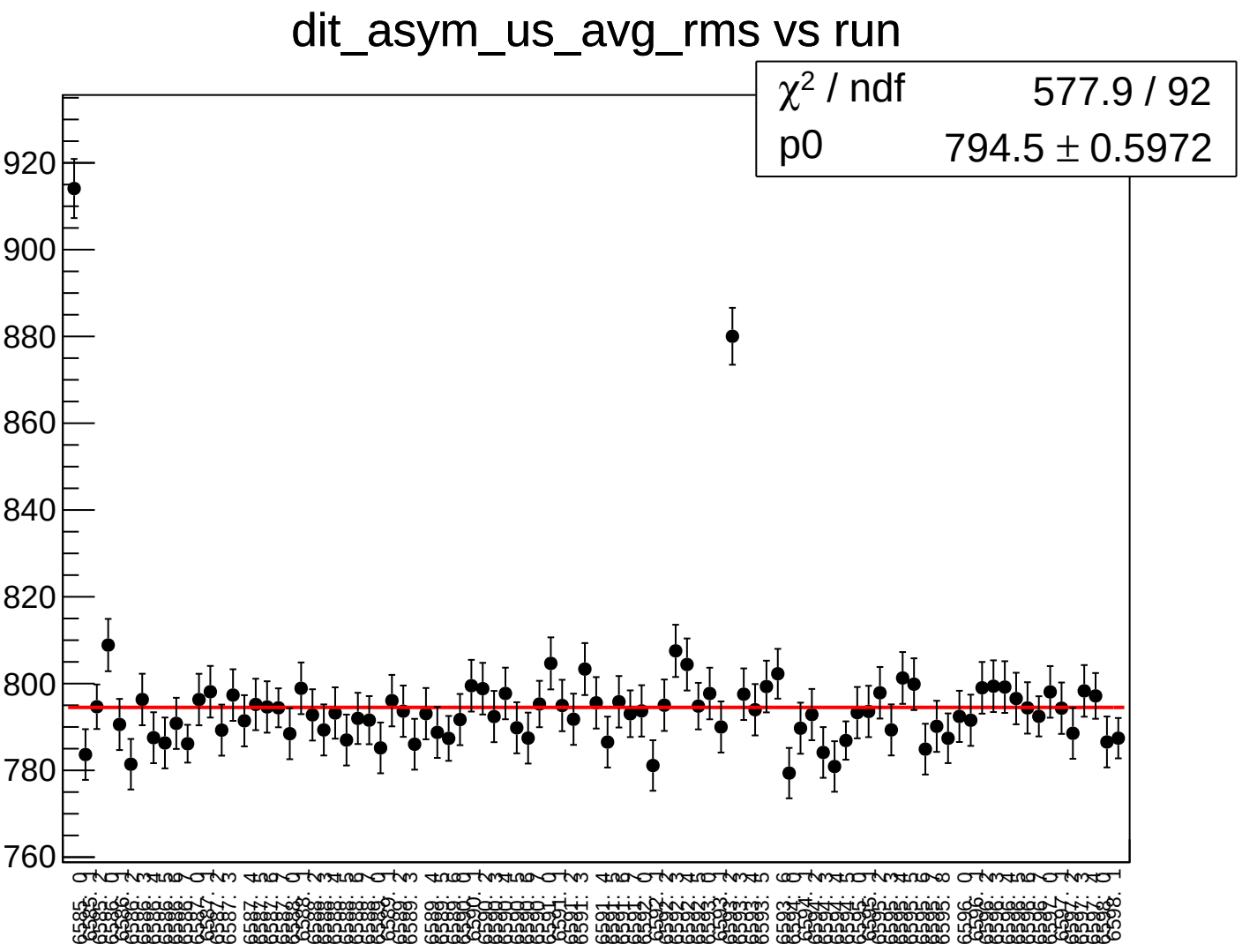

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.54 / 92
p0 678.8 ± 1454
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 70.41
Std Dev 169.1
3
2
1
0
−1
−2

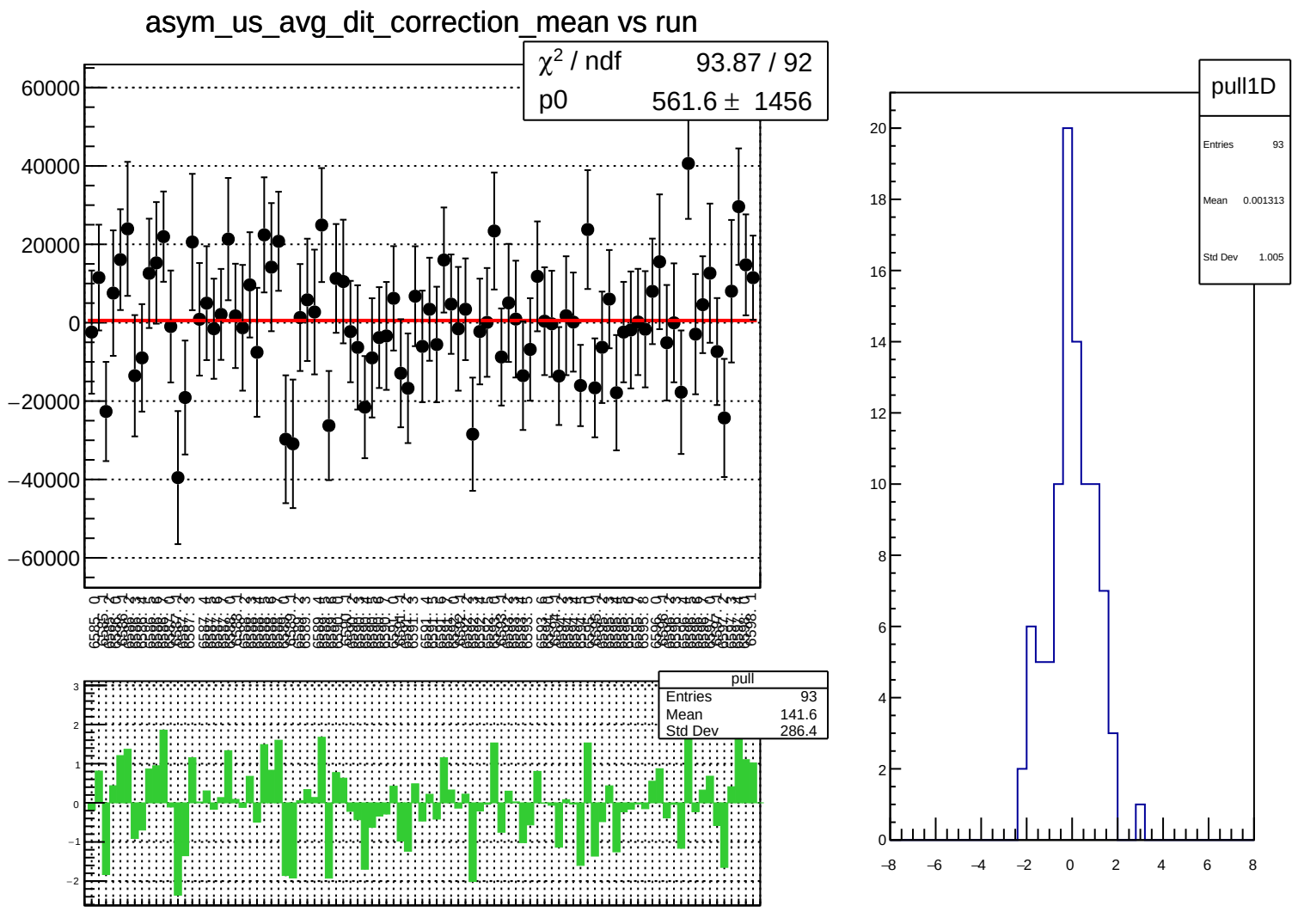

pull1D
Entries 93
Mean 0.003993
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

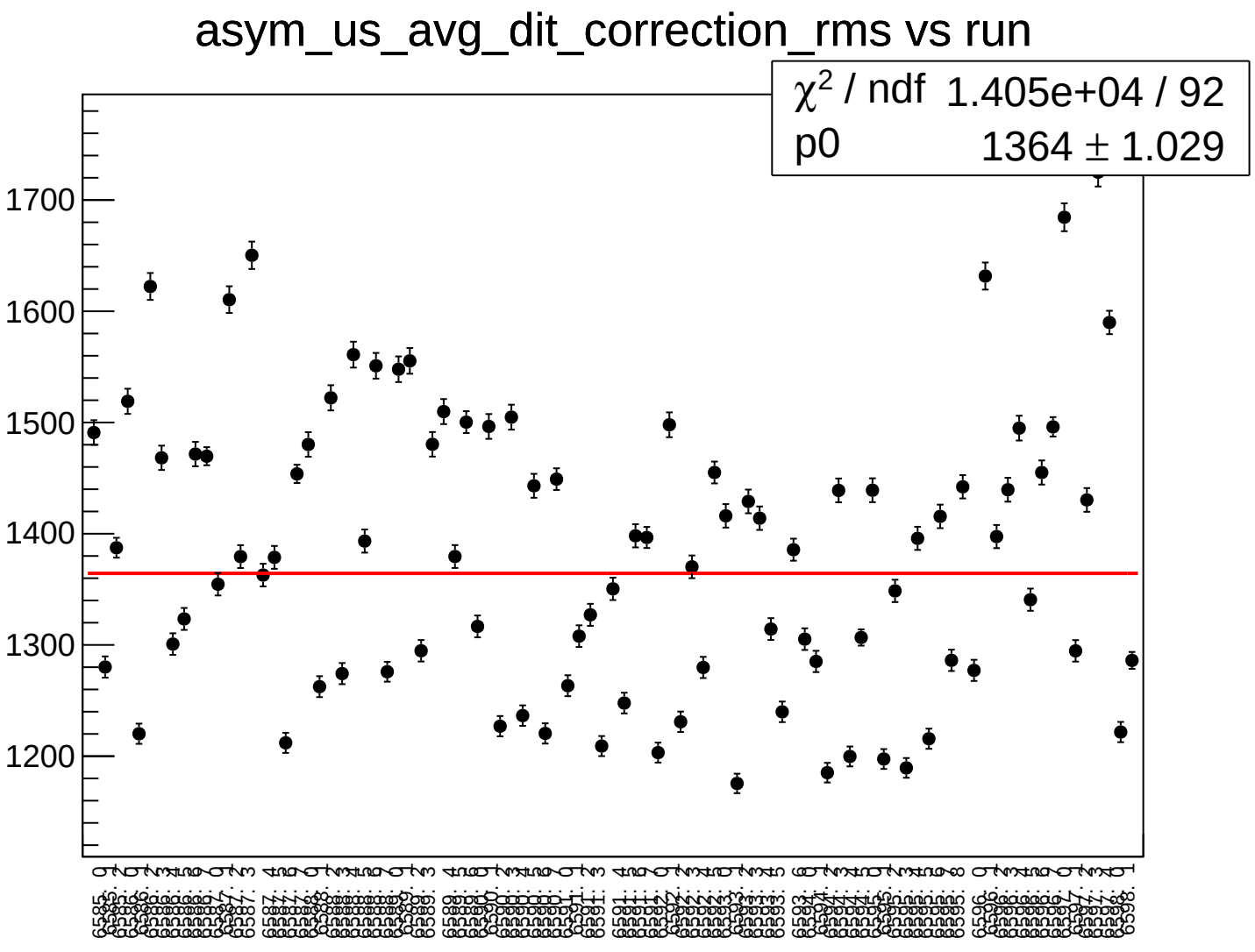

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.672e+04 / 92
p0 1362 ± 1.028
1700
1600
1500
1400
1300
1200
1100

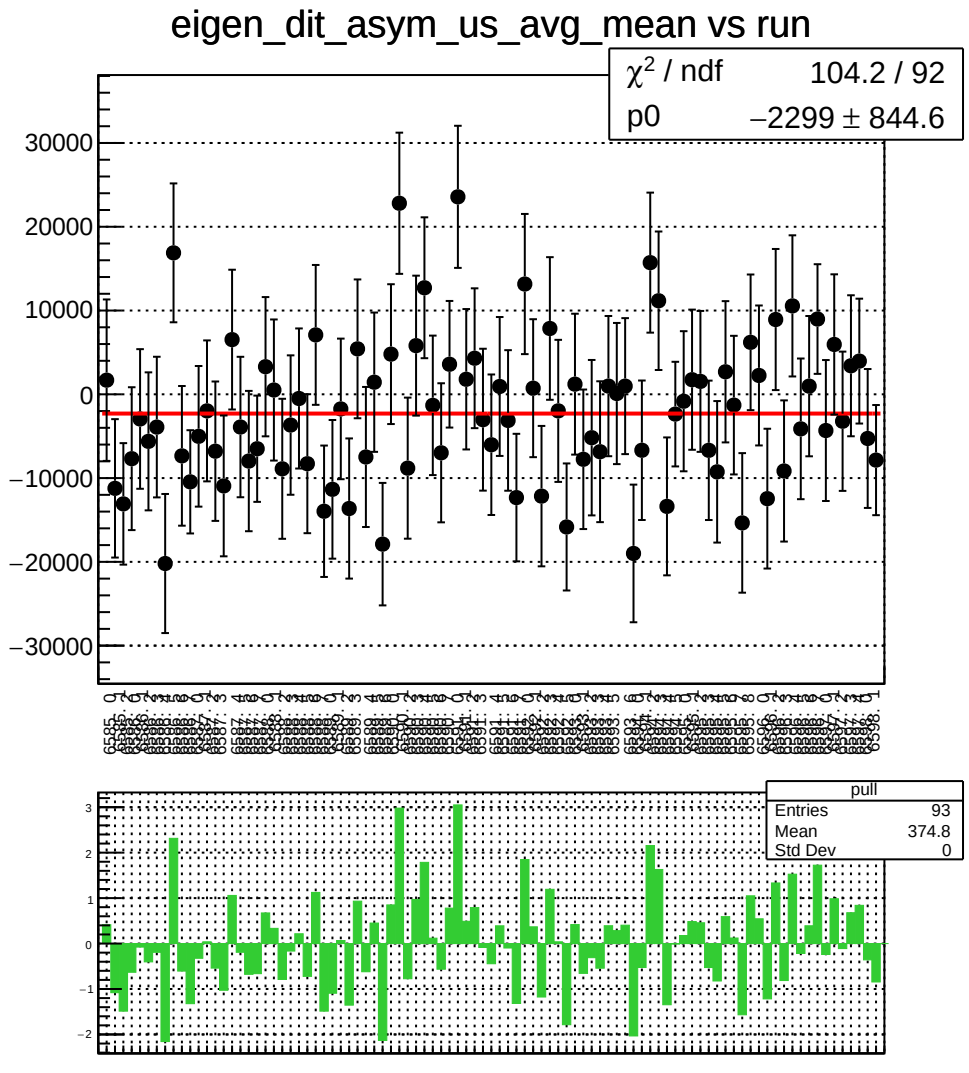

dit_asym_us_avg_mean vs run
χ² / ndf 104.2 / 92
p0 −2299 ± 844.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 374.8
Std Dev 0
3
2
1
0
−1
−2

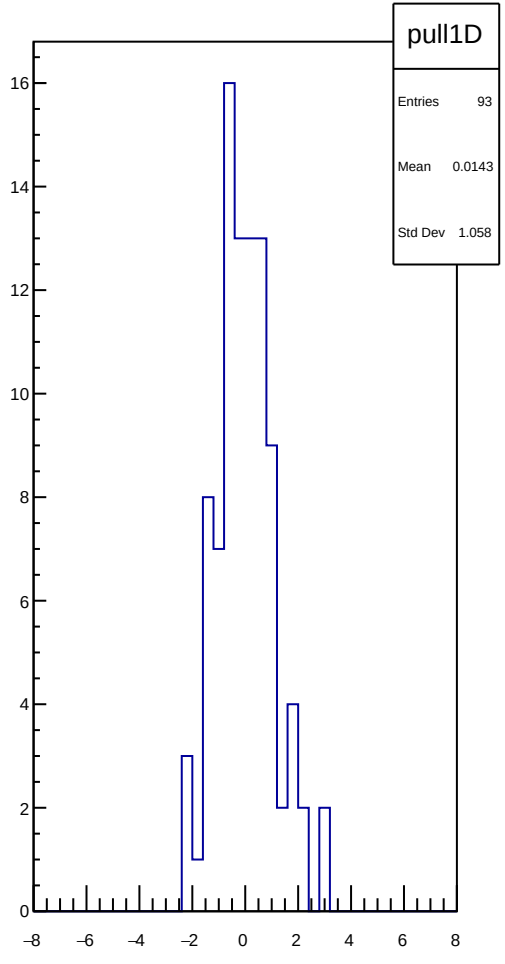

pull1D
Entries 93
Mean 0.0143
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_rms vs run
χ² / ndf 577.9 / 92
p0 794.5 ± 0.5972
920
900
880
860
840
820
800
780
760


asym_us_avg_dit_correction_mean vs run
χ² / ndf 93.87 / 92
p0 561.6 ± 1456
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 141.6
Std Dev 286.4
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001313
Std Dev 1.005
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 1.405e+04 / 92
p0 1364 ± 1.029
1700
1600
1500
1400
1300
1200


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 104.2 / 92
p0 −2299 ± 844.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 374.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.0143
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
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2
4
6
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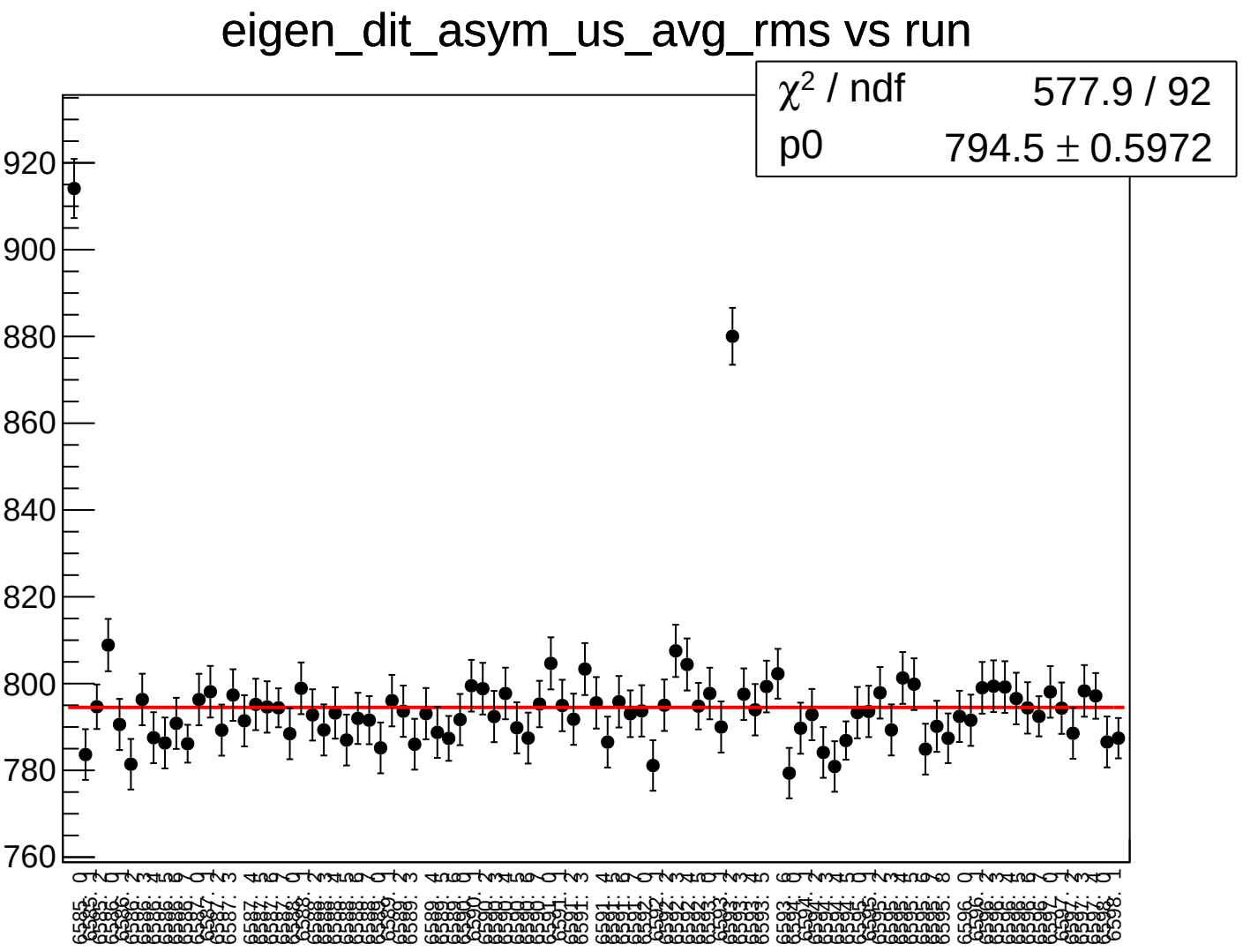
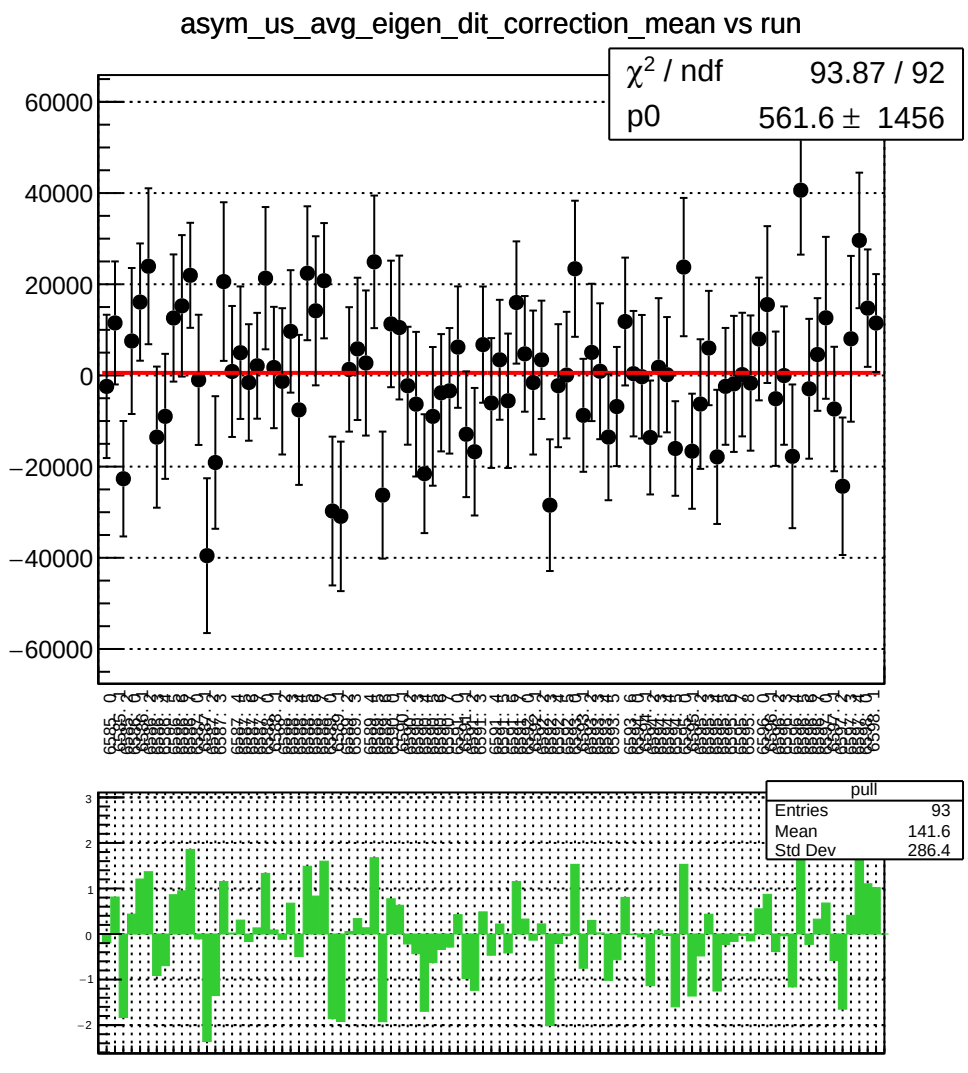
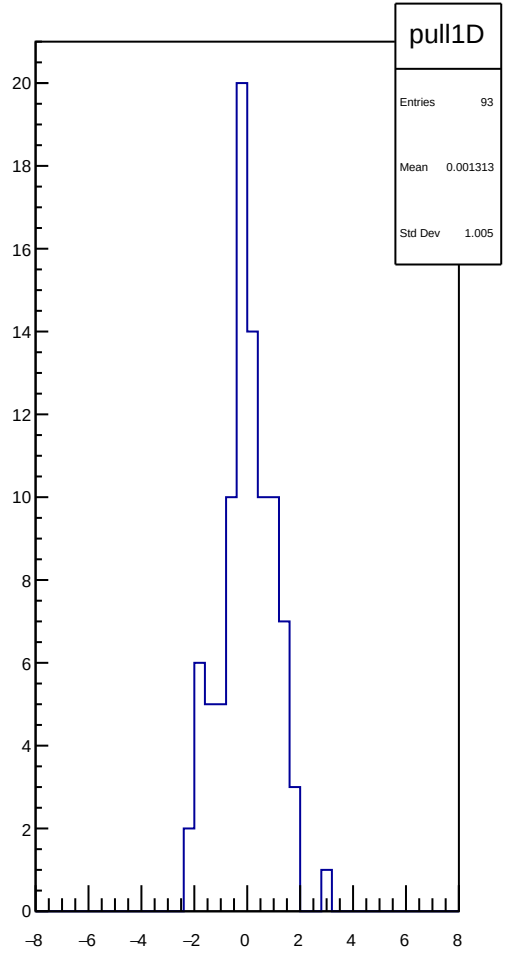
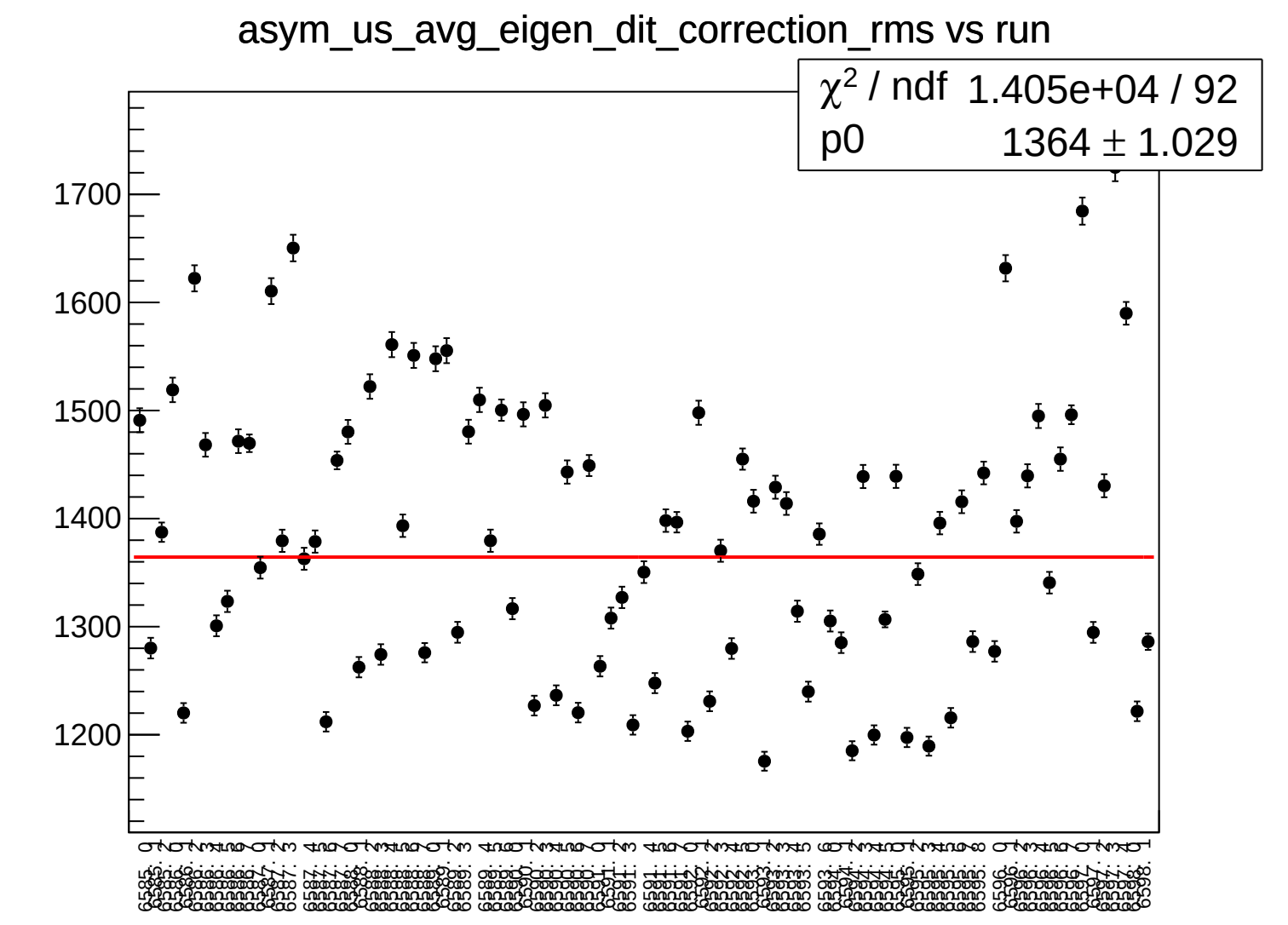
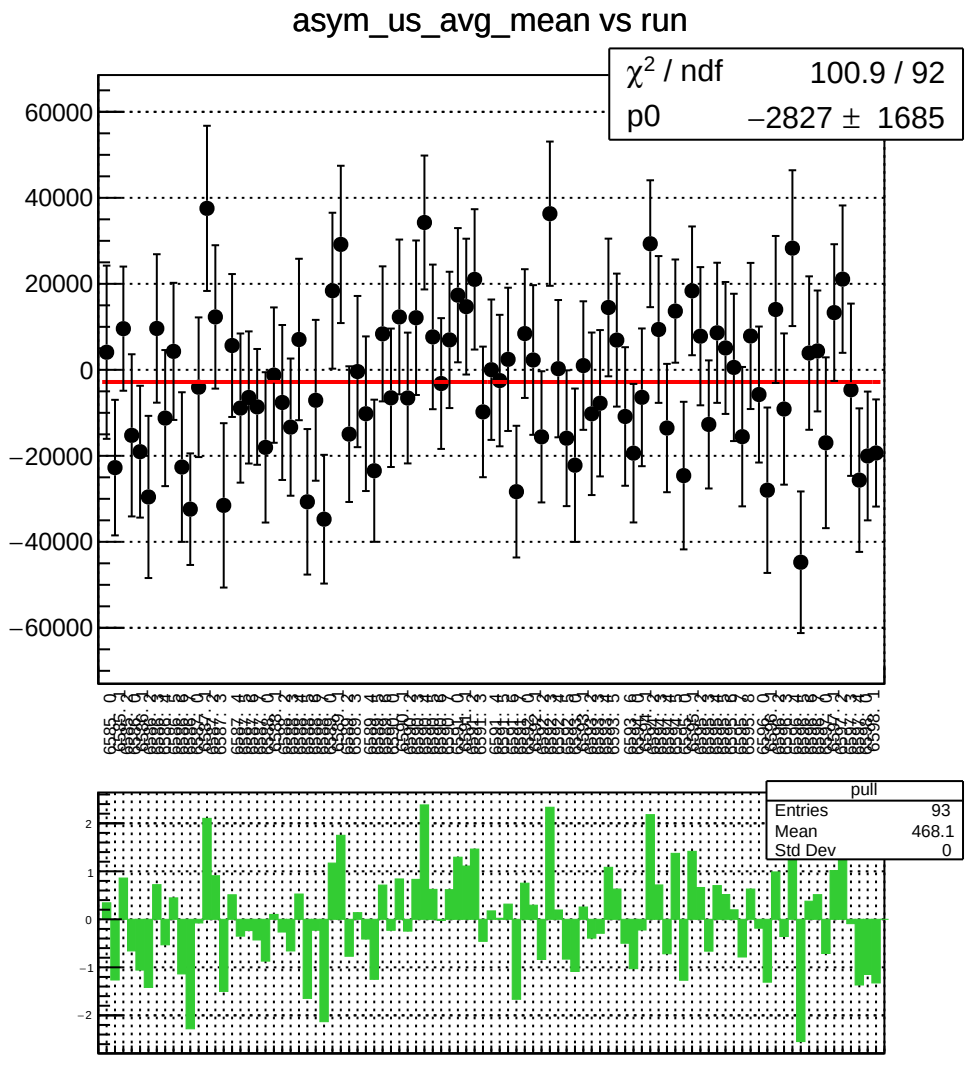
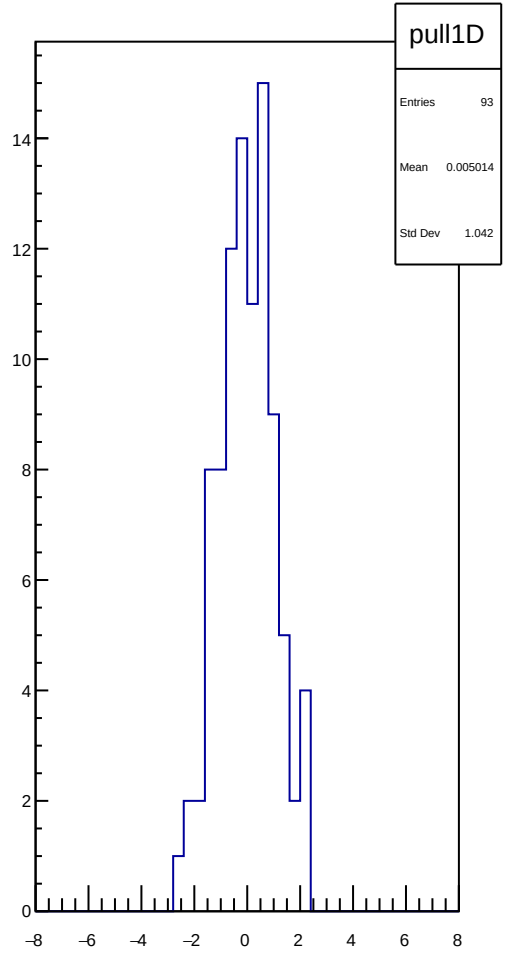

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 577.9 / 92
p0 794.5 ± 0.5972
920
900
880
860
840
820
800
780
760


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.87 / 92
p0 561.6 ± 1456
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 141.6
Std Dev 286.4
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.001313
Std Dev 1.005
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 1.405e+04 / 92
p0 1364 ± 1.029
1700
1600
1500
1400
1300
1200


asym_us_avg_mean vs run
χ² / ndf 100.9 / 92
p0 −2827 ± 1685
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 468.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.005014
Std Dev 1.042
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12
10
8
6
4
2
0
−8
−6
−4
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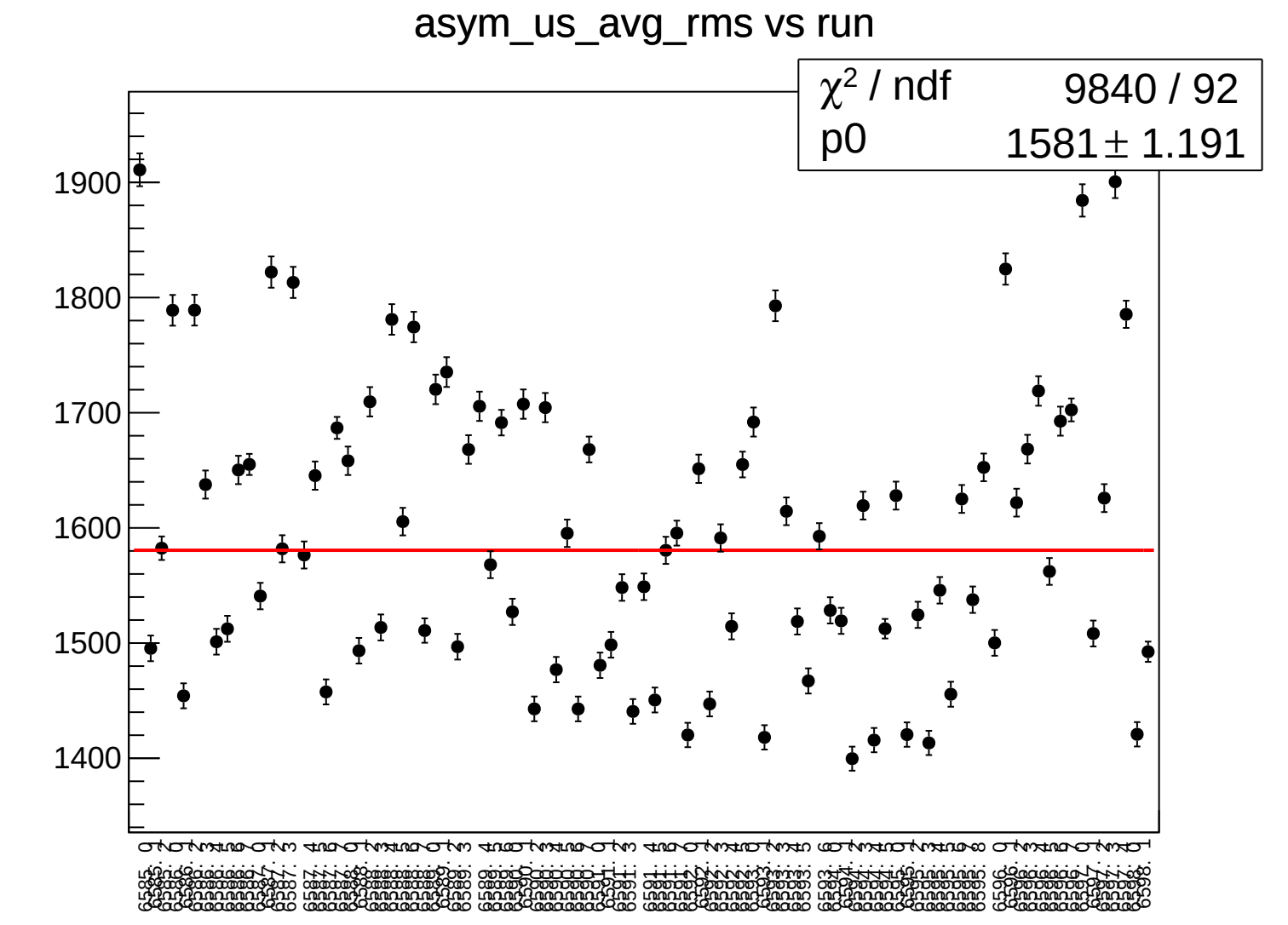
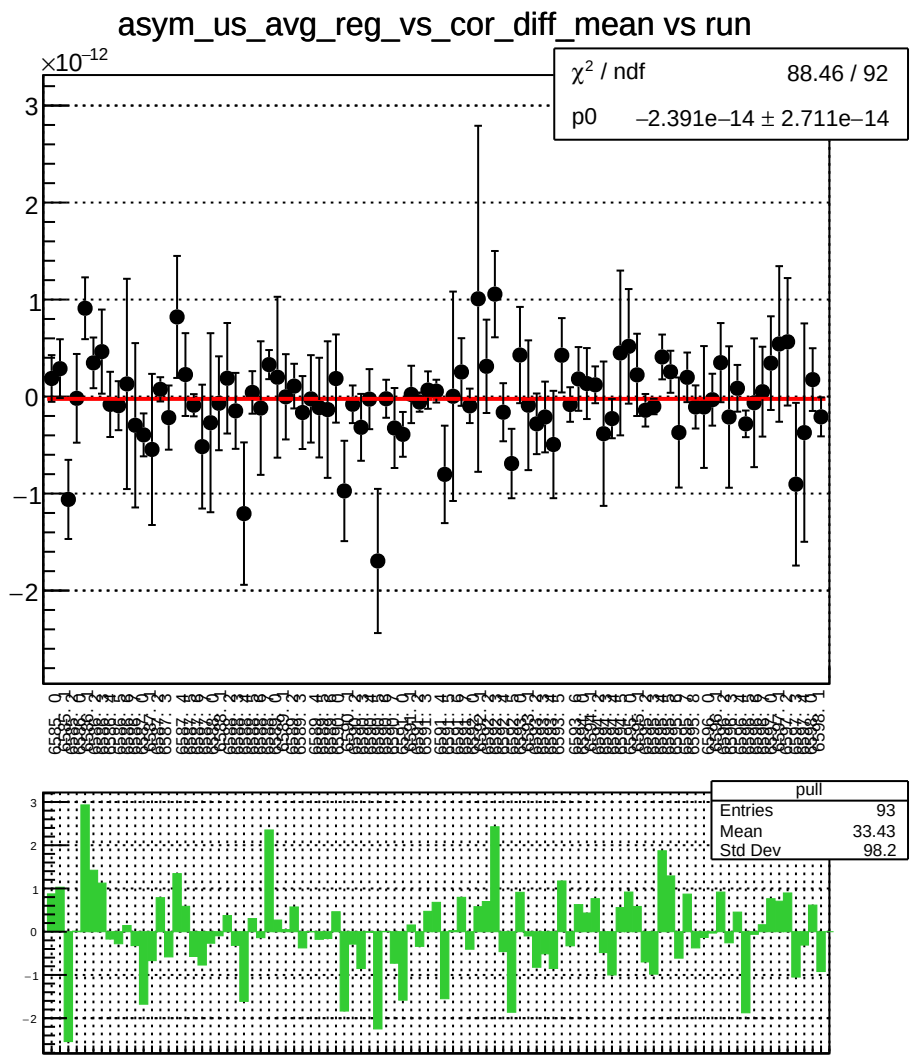
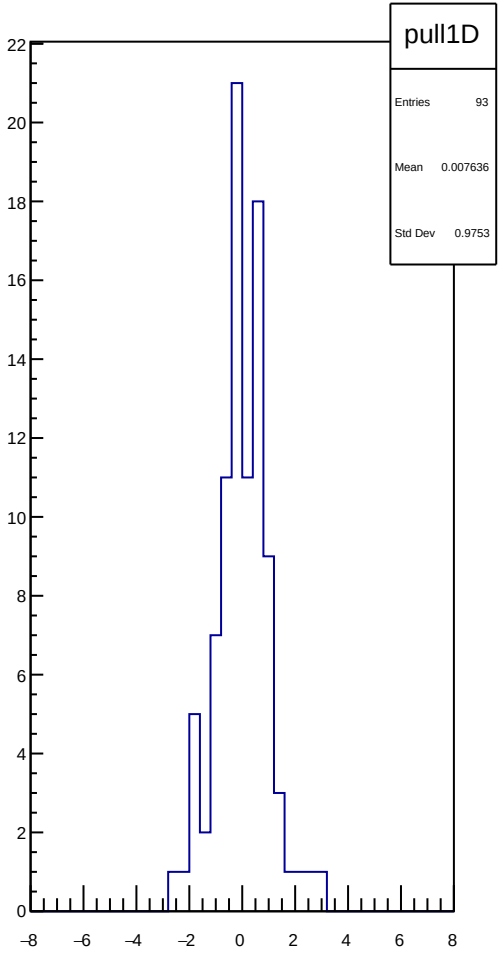
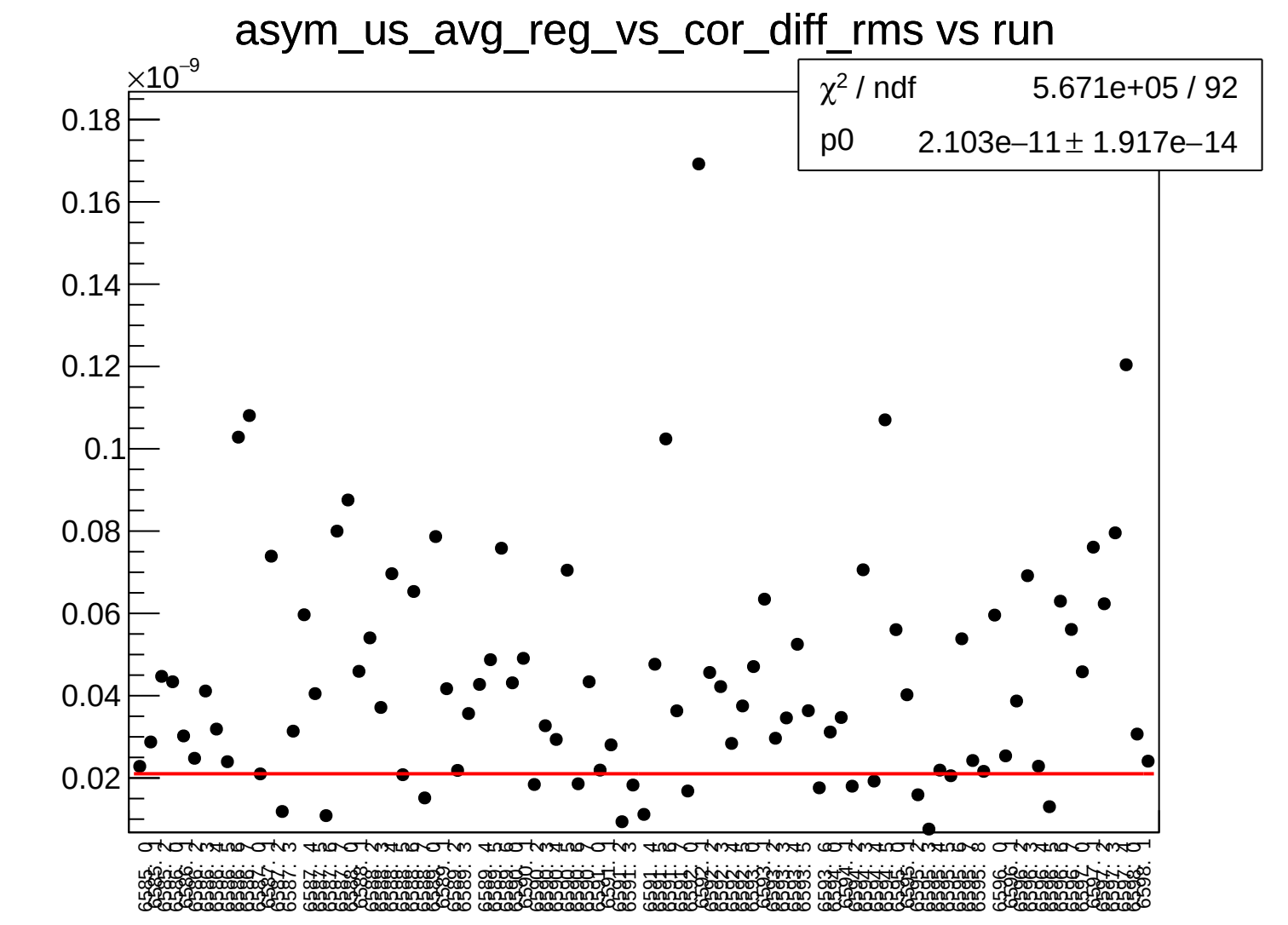
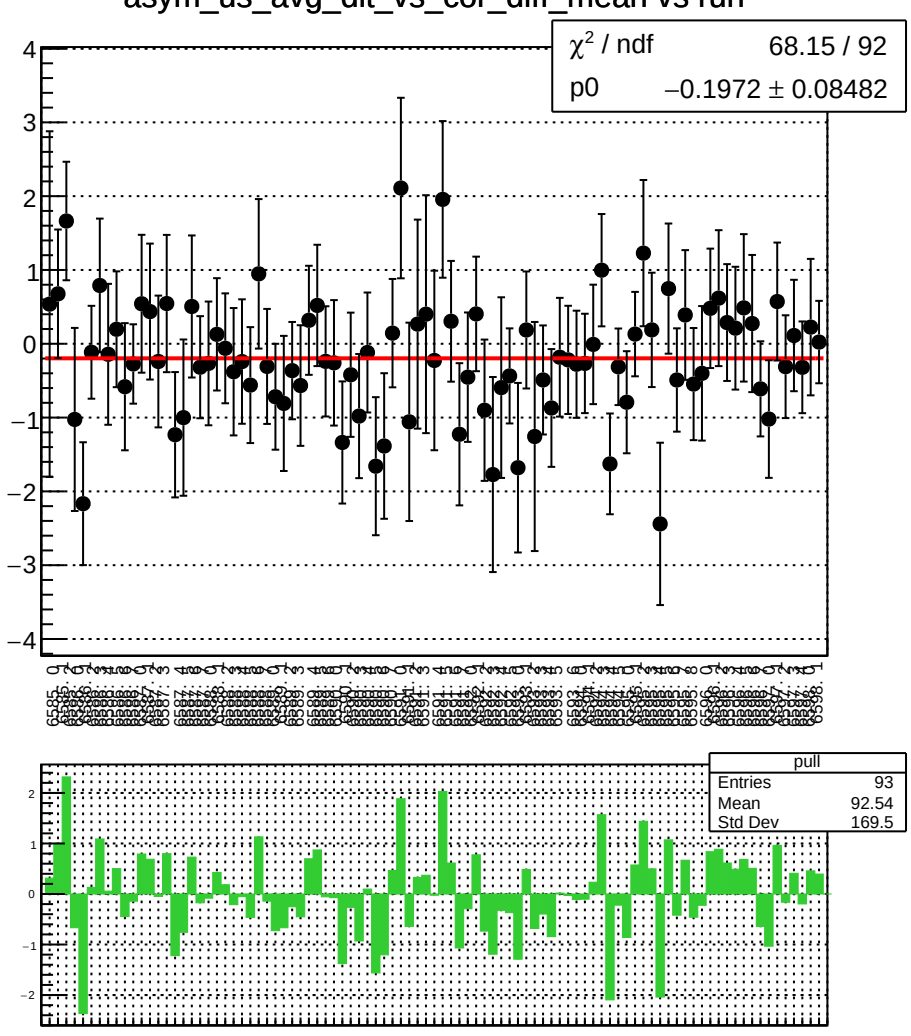
2
4
6
8

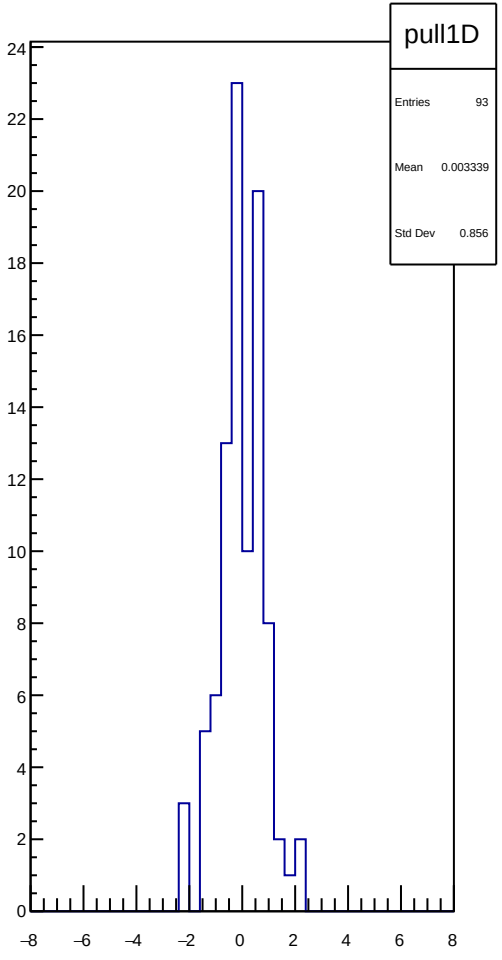

asym_us_avg_rms vs run
χ^2 / ndf 9840 / 92
p0 1581 ± 1.191
1900
1800
1700
1600
1500
1400

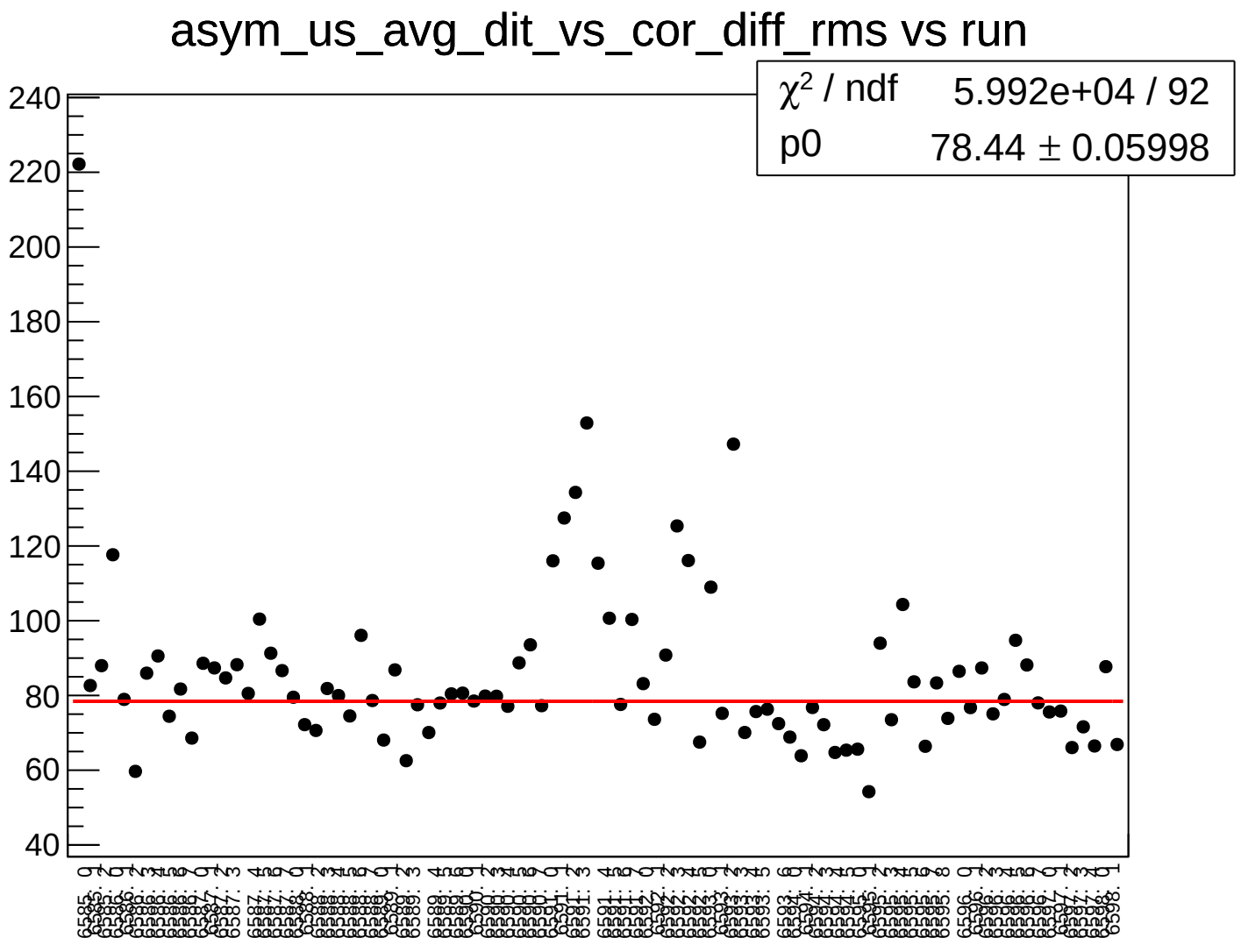

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.46 / 92
p0 −2.391e−14 ± 2.711e−14
pull
Entries 93
Mean 33.43
Std Dev 98.2

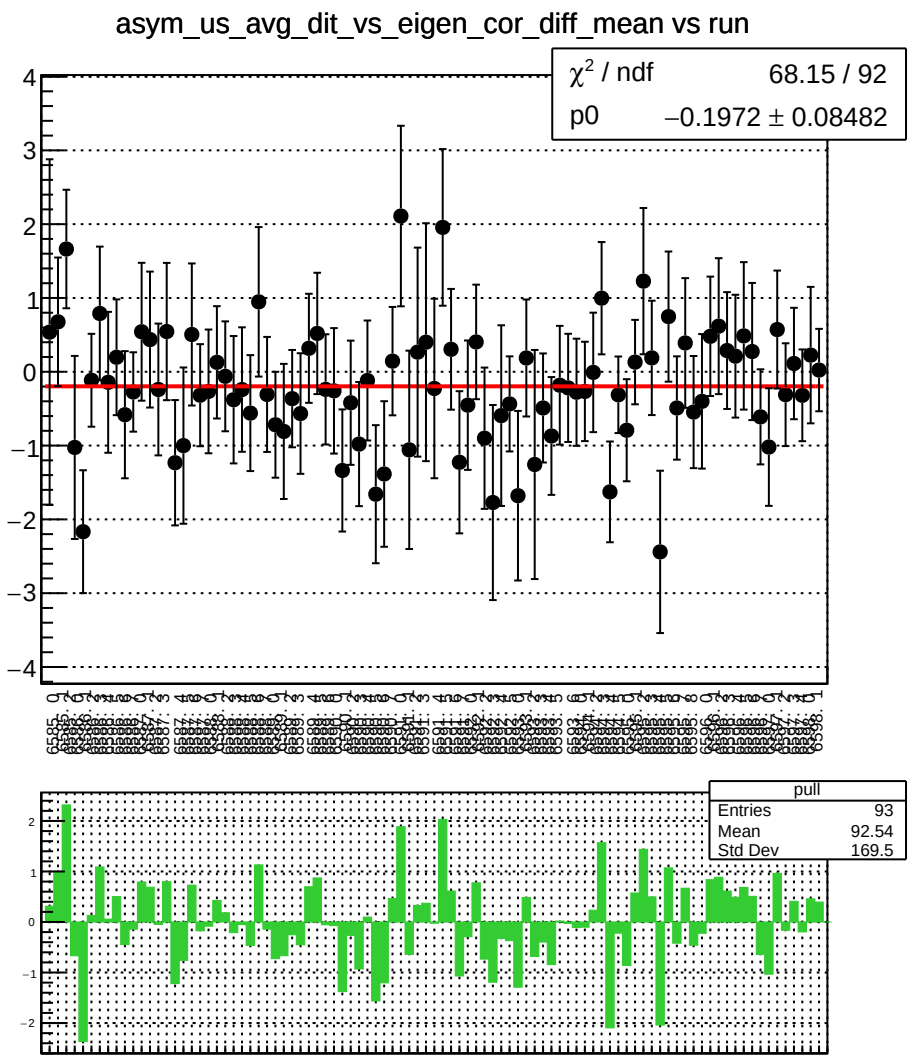

pull1D
Entries 93
Mean 0.007636
Std Dev 0.9753

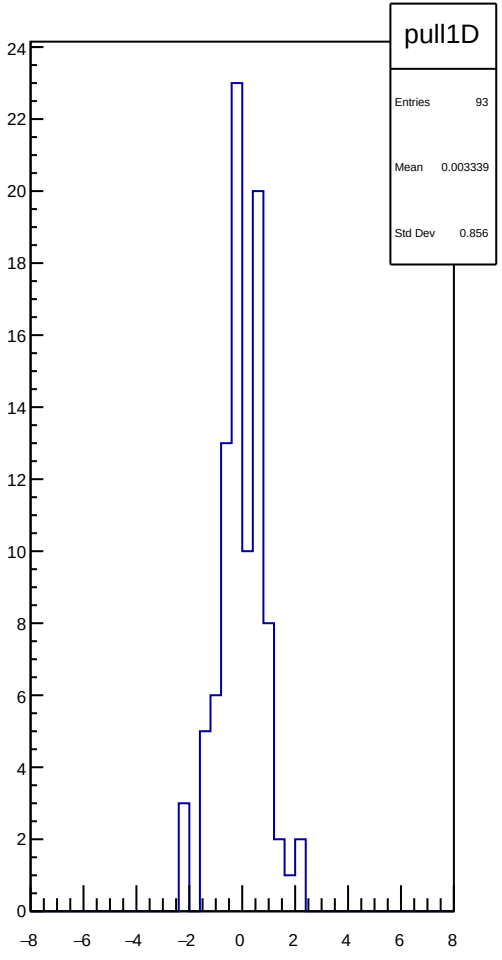

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.671e+05 / 92
p0 2.103e−11 ± 1.917e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

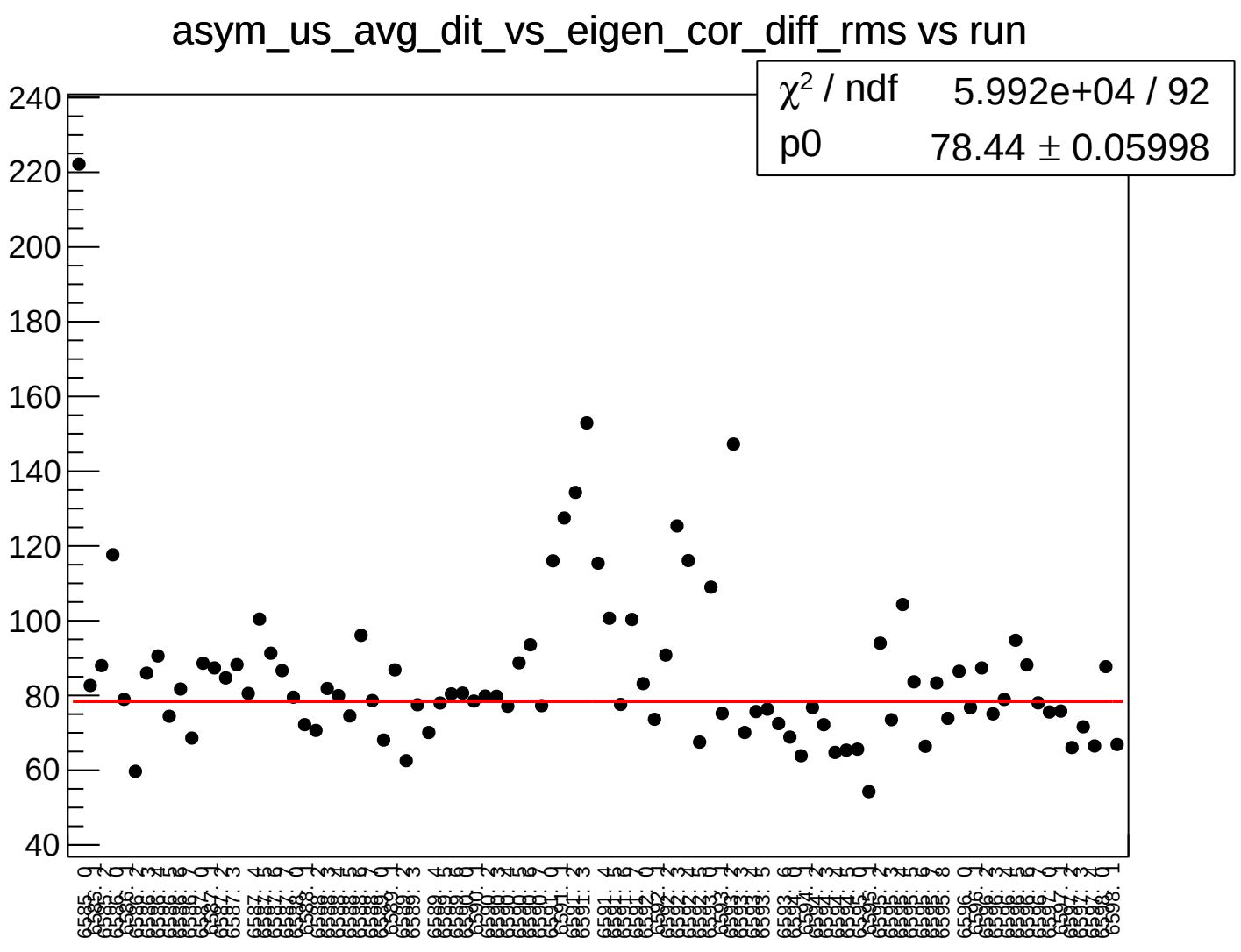

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.15 / 92
p0 −0.1972 ± 0.08482
pull
Entries 93
Mean 92.54
Std Dev 169.5

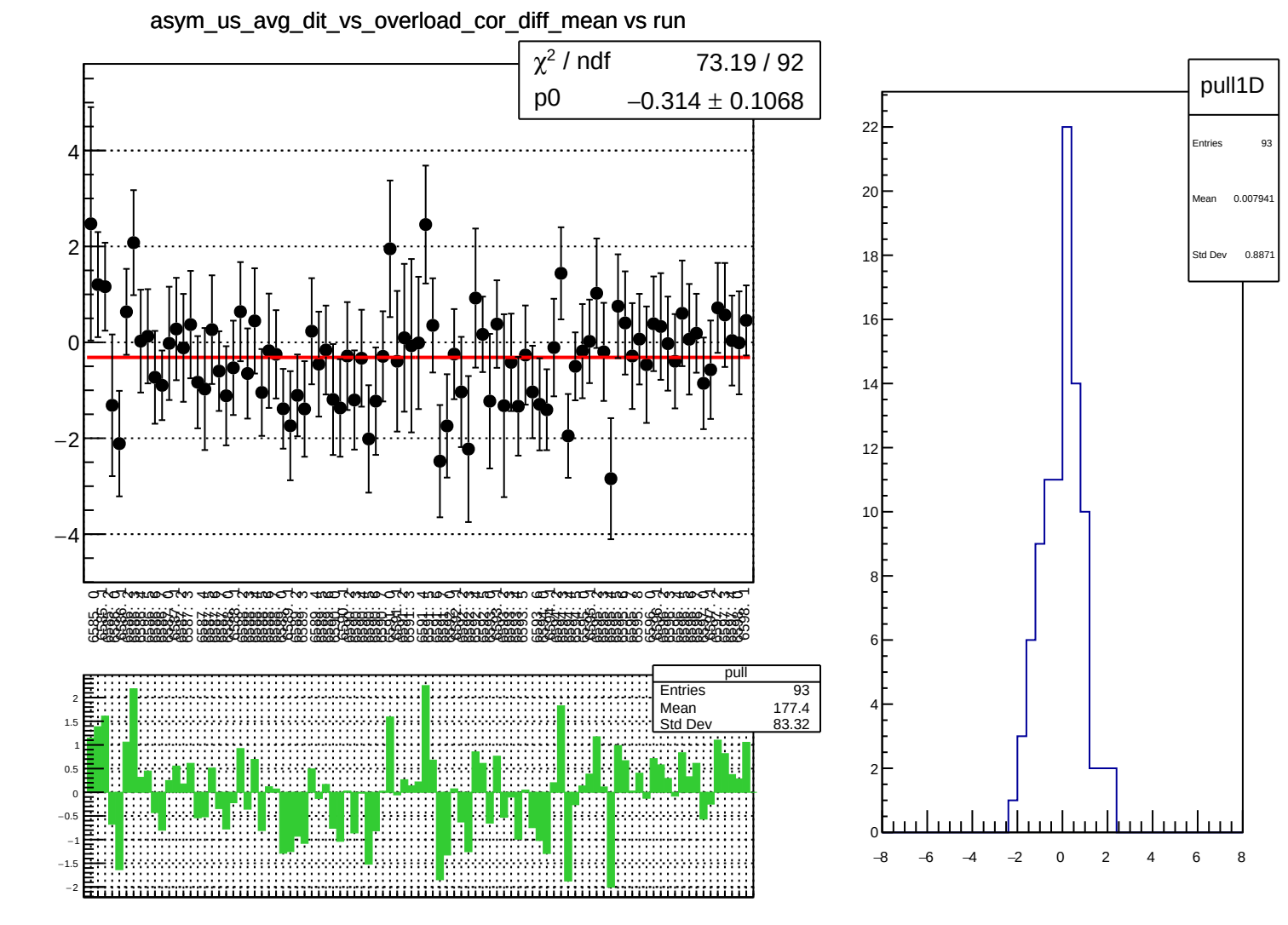

pull1D
Entries 93
Mean 0.003339
Std Dev 0.856

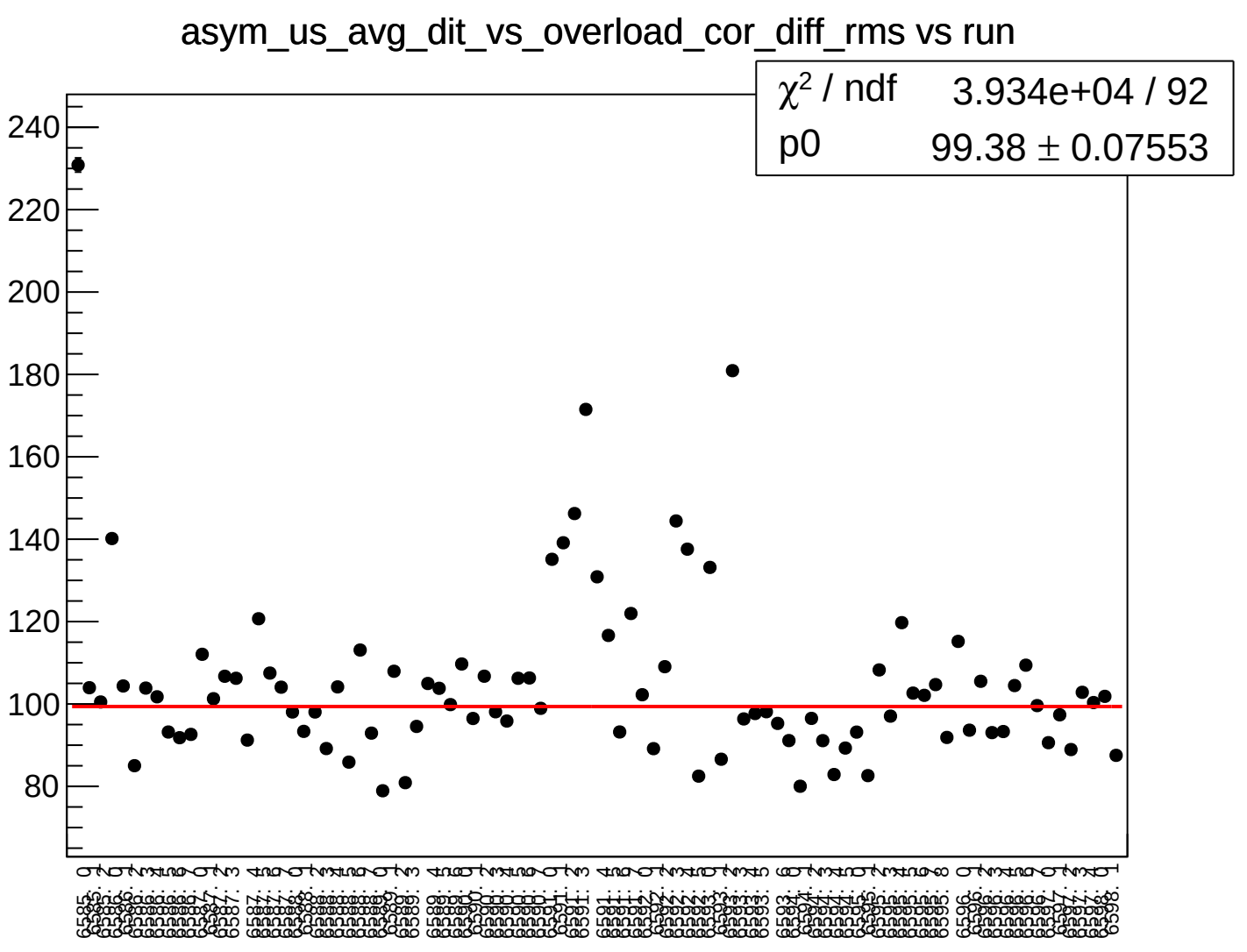

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.992e+04 / 92
p0 78.44 ± 0.05998
240
220
200
180
160
140
120
100
80
60
40

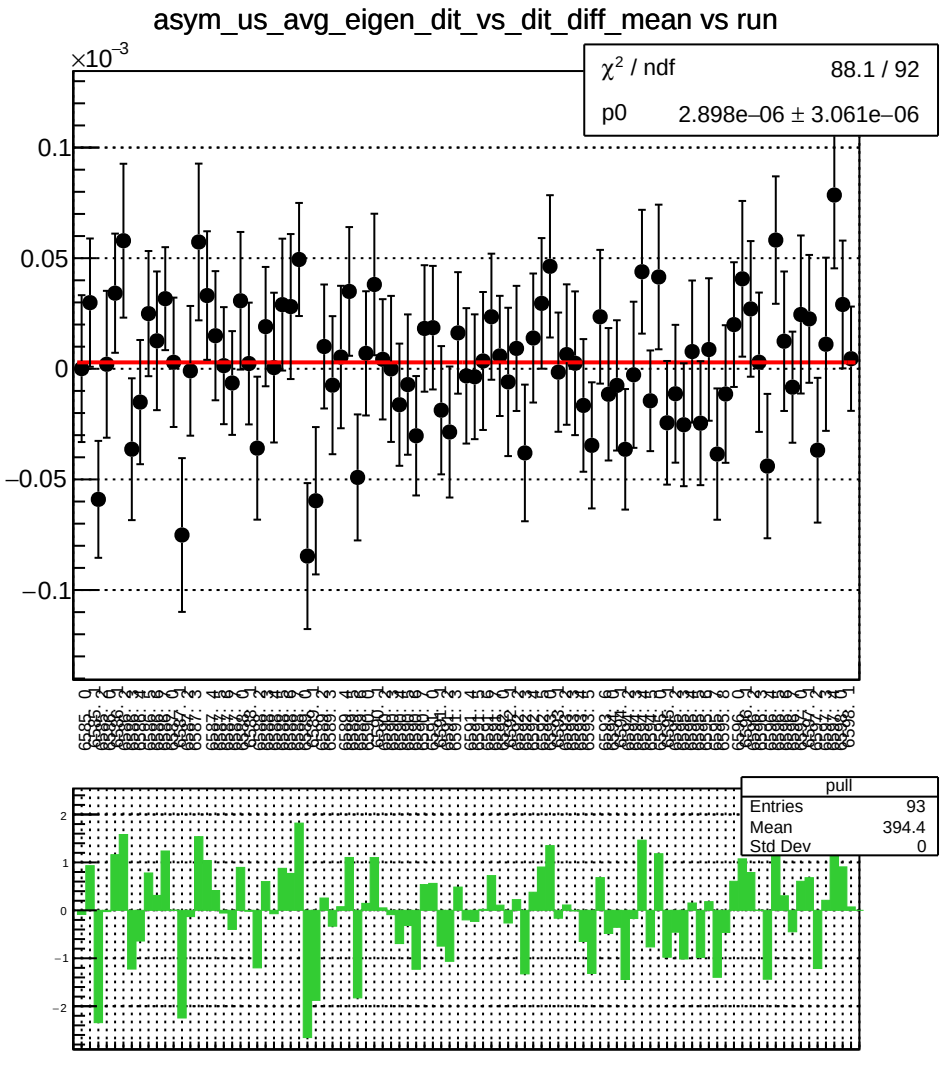

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.15 / 92
p0 −0.1972 ± 0.08482
pull
Entries 93
Mean 92.54
Std Dev 169.5

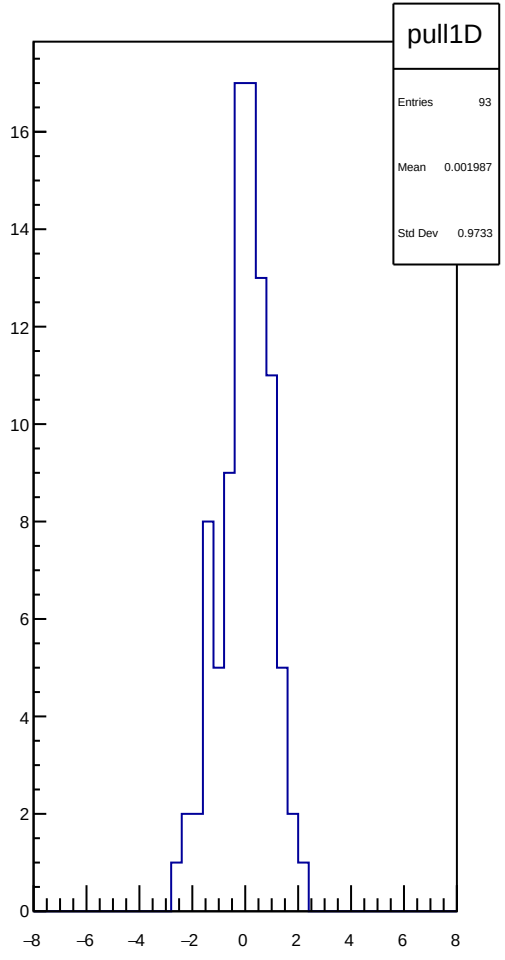

pull1D
Entries 93
Mean 0.003339
Std Dev 0.856

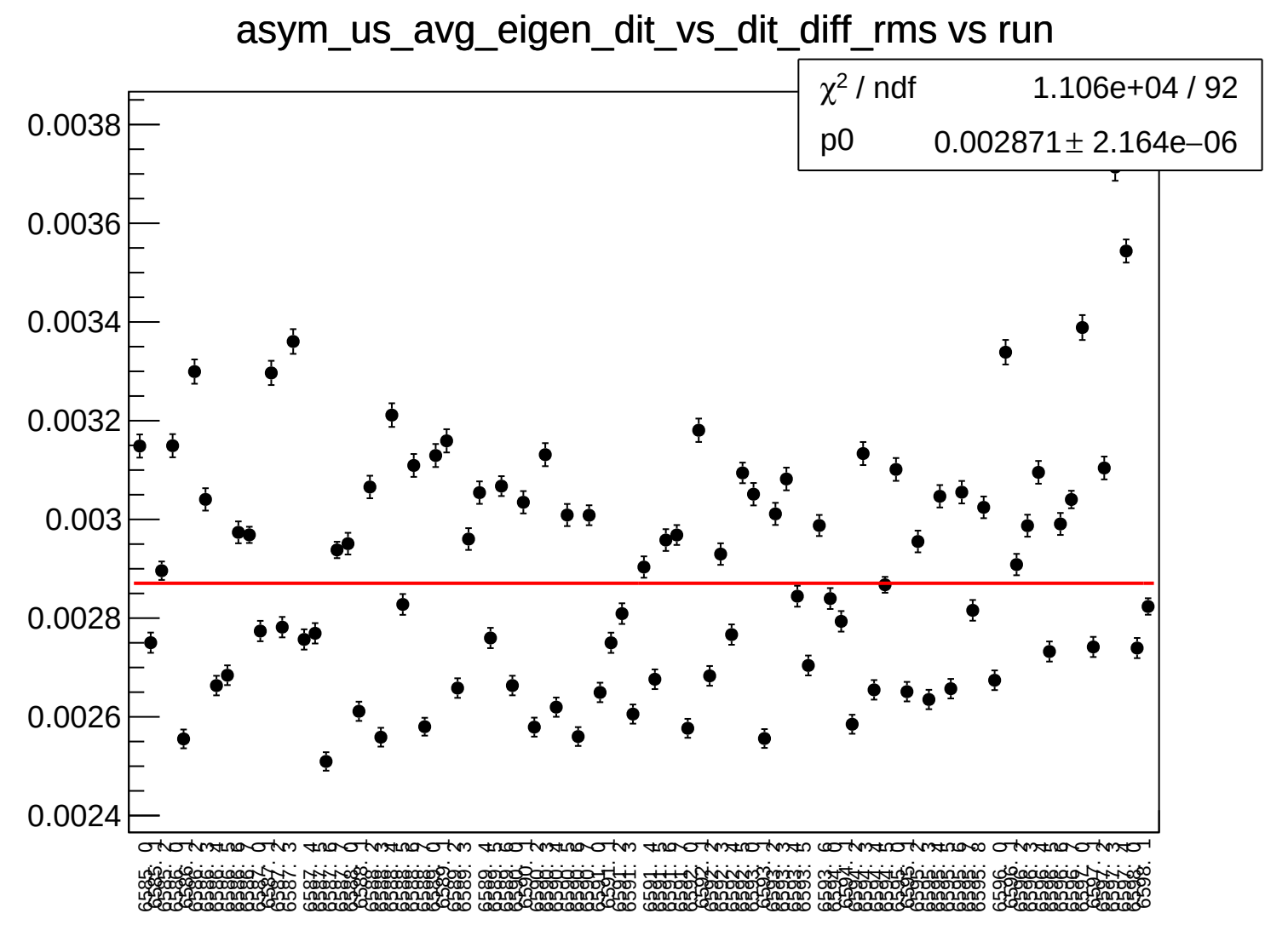

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.992e+04 / 92
p0 78.44 ± 0.05998
240
220
200
180
160
140
120
100
80
60
40

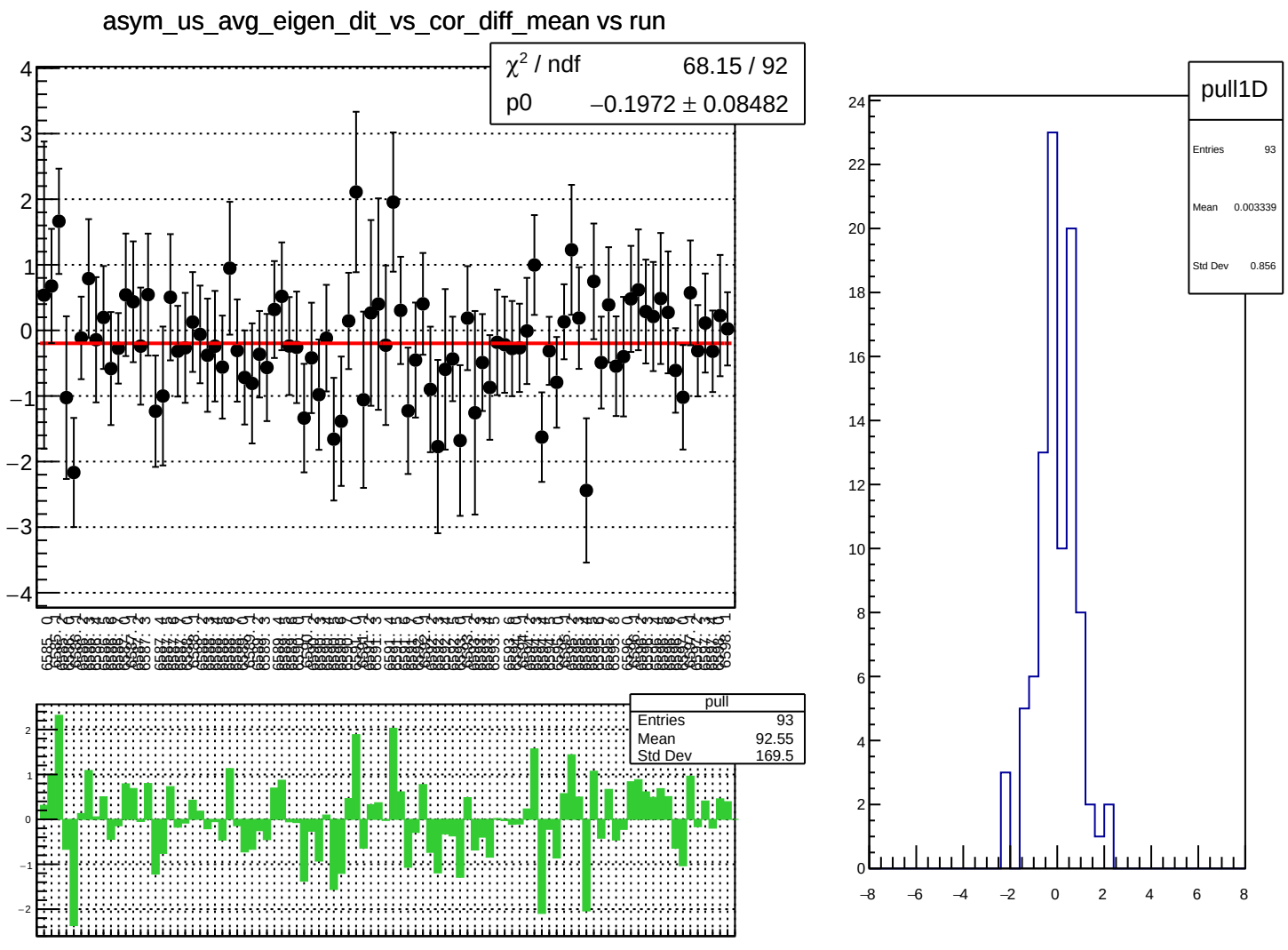

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 73.19 / 92
p0 −0.314 ± 0.1068
pull
Entries 93
Mean 177.4
Std Dev 83.32
pull1D
Entries 93
Mean 0.007941
Std Dev 0.8871

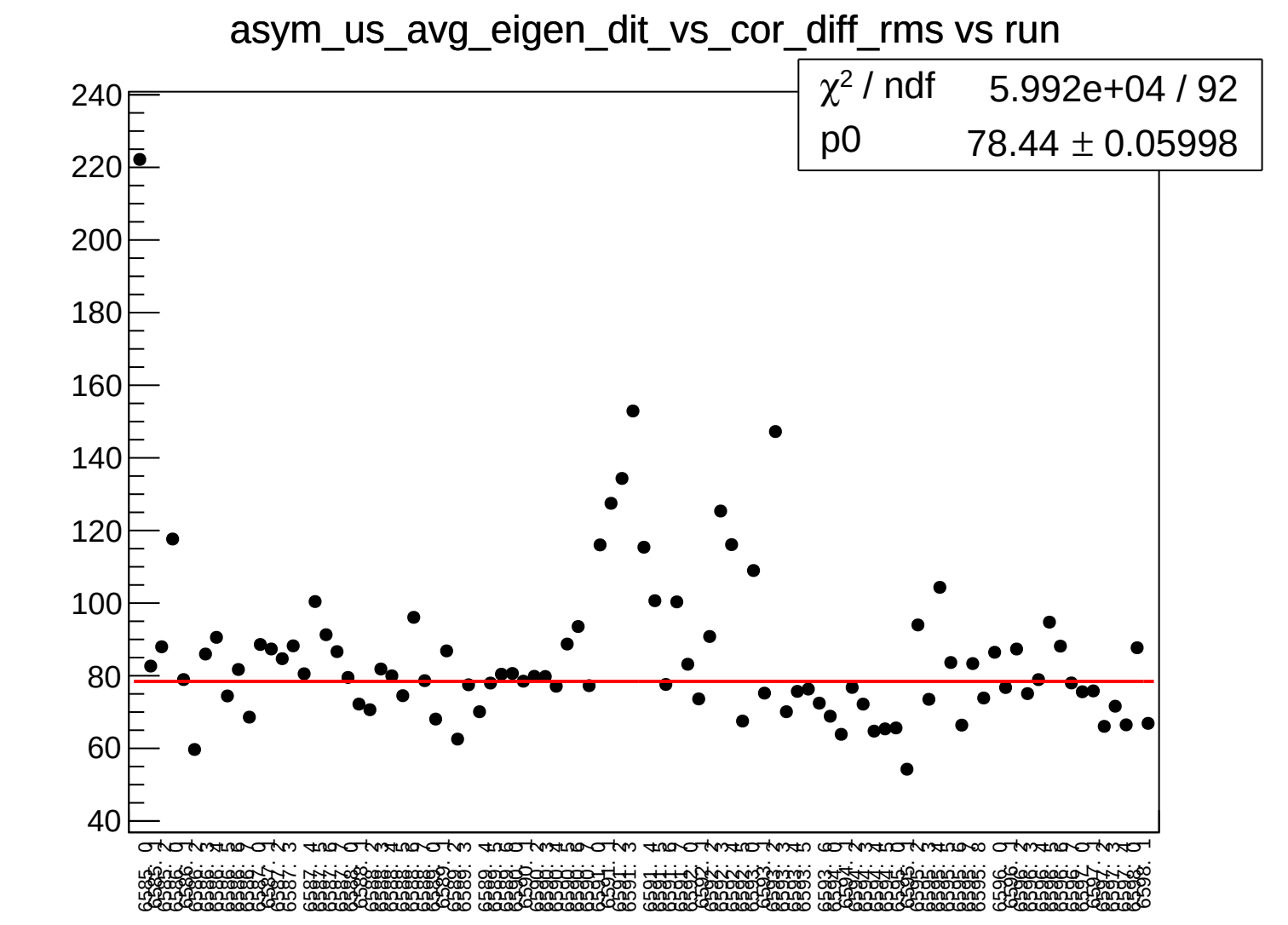

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.934e+04 / 92
p0 99.38 ± 0.07553
240
220
200
180
160
140
120
100
80

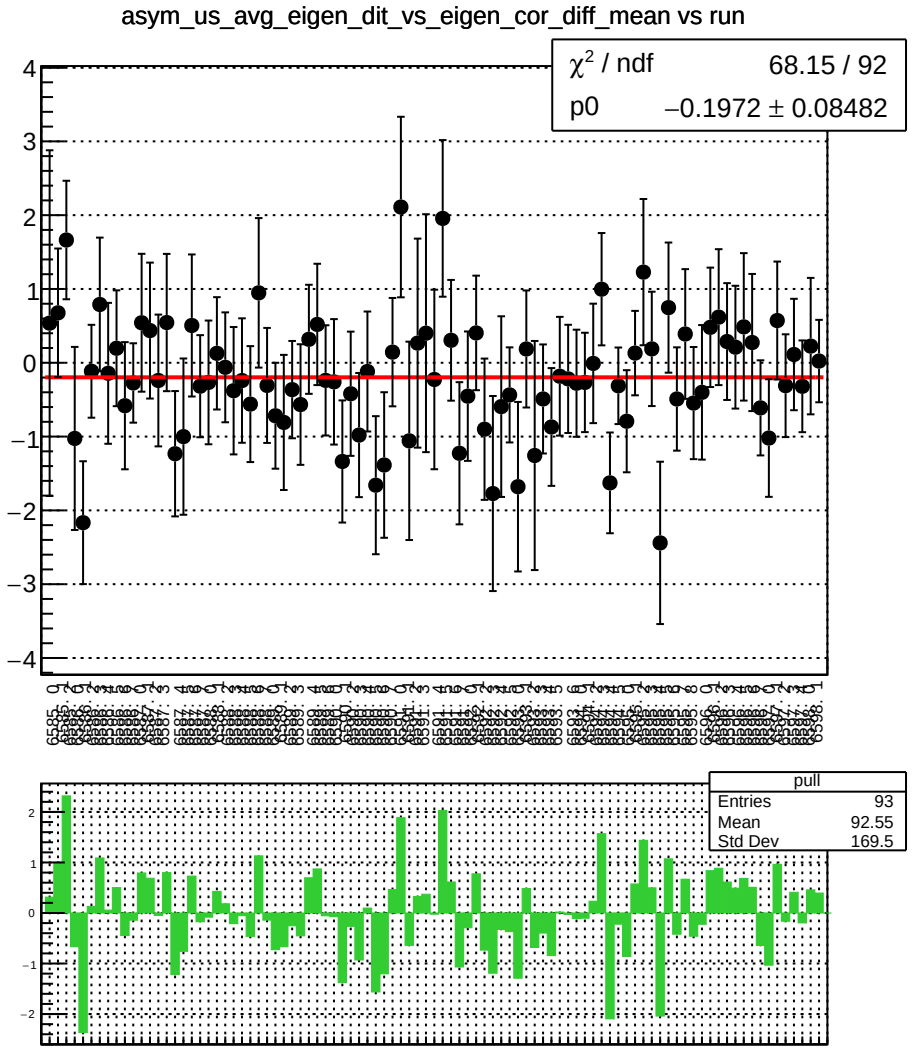

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.1 / 92
p0 2.898e−06 ± 3.061e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 394.4
Std Dev 0
2
1
0
−1
−2

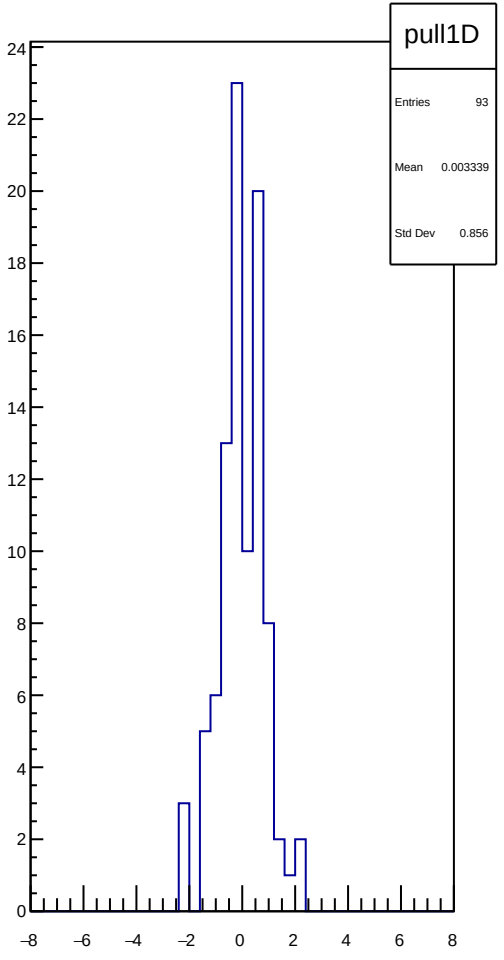

pull1D
Entries 93
Mean 0.001987
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

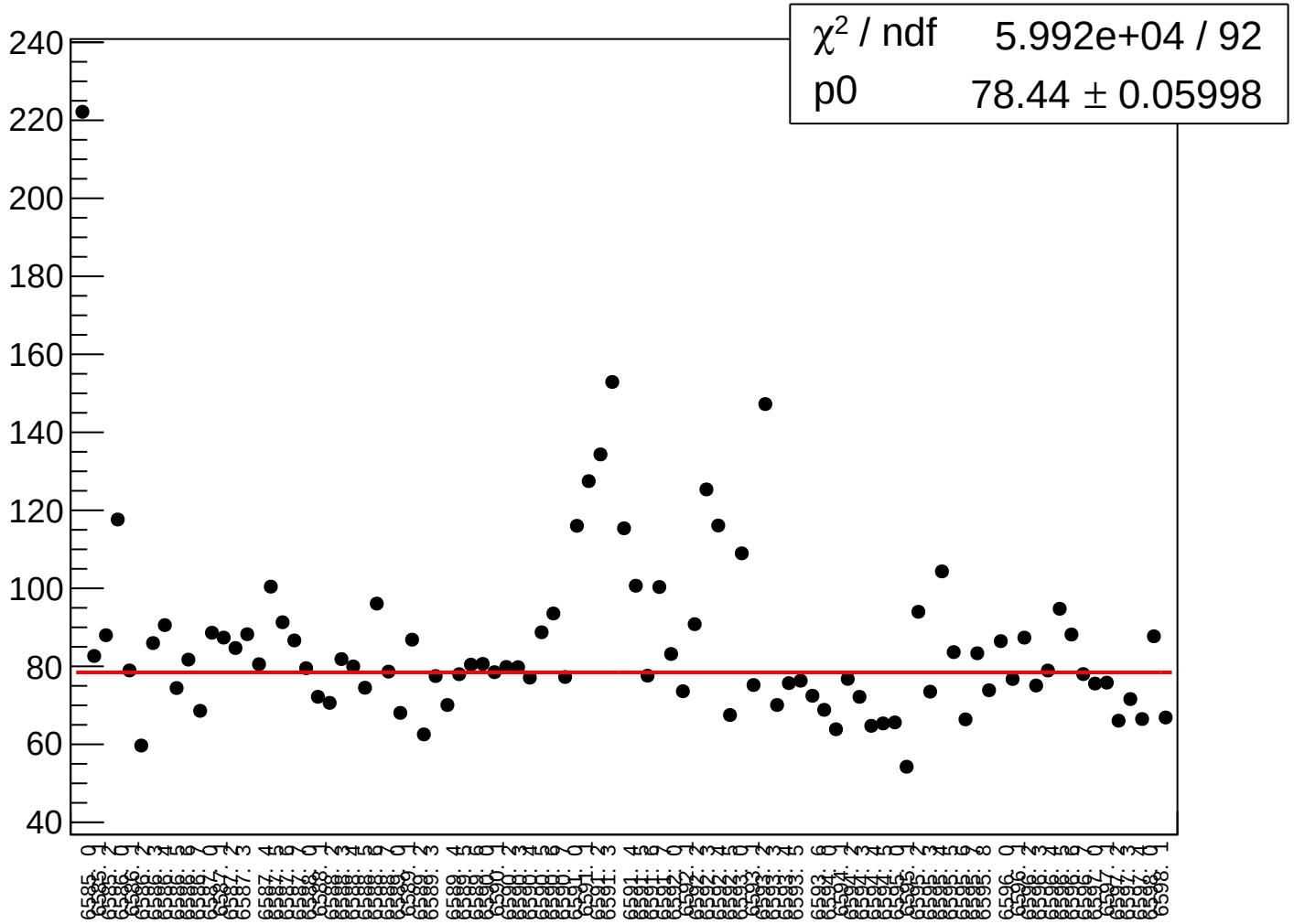

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.106e+04 / 92
p0 0.002871 ± 2.164e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

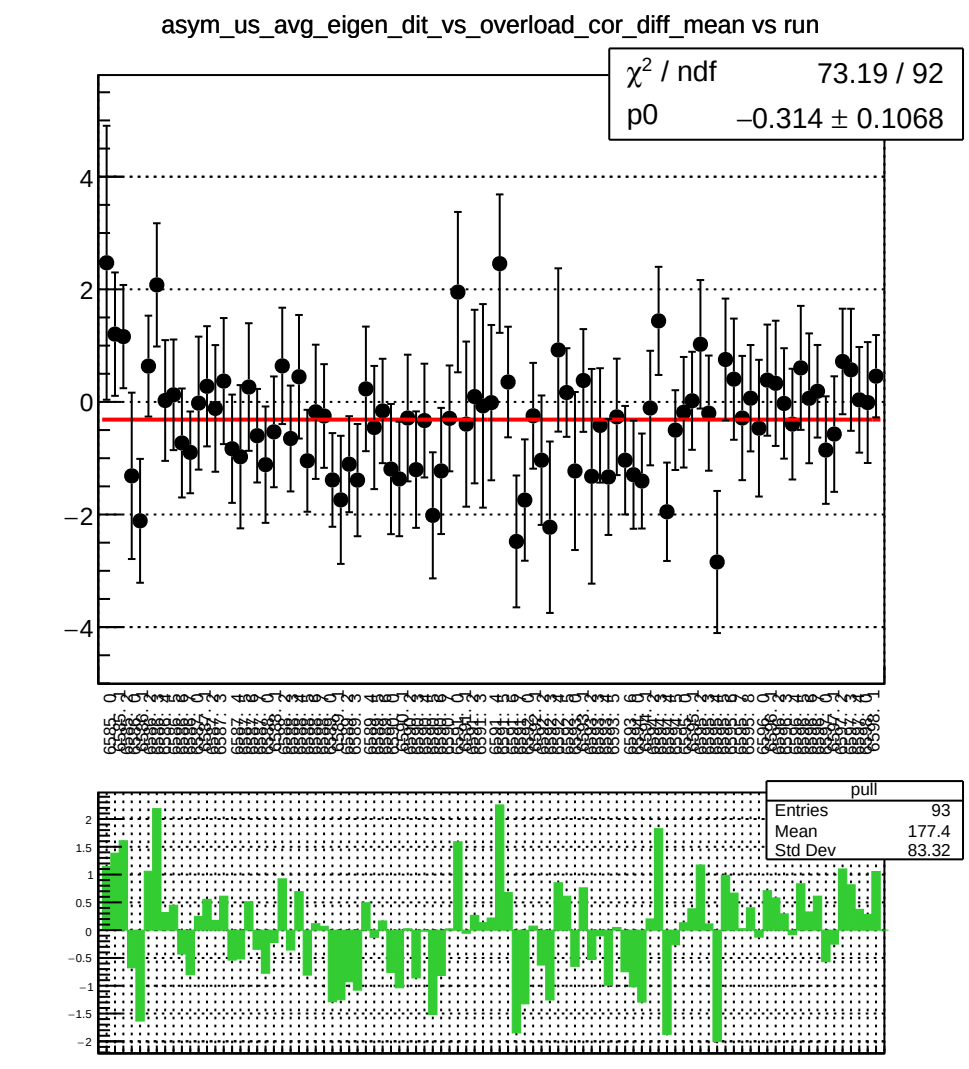

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.15 / 92
p0 −0.1972 ± 0.08482
pull
Entries 93
Mean 92.55
Std Dev 169.5
pull1D
Entries 93
Mean 0.003339
Std Dev 0.856

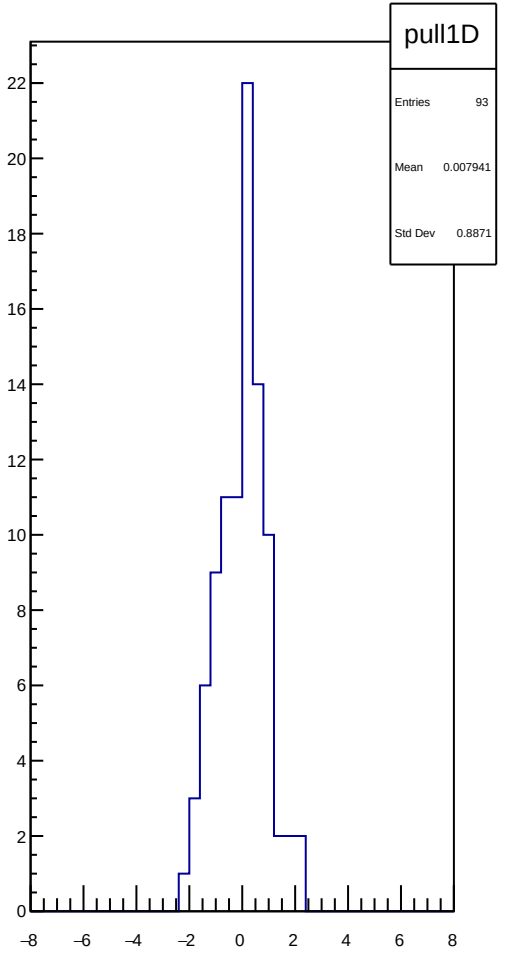

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.992e+04 / 92
p0 78.44 ± 0.05998
240
220
200
180
160
140
120
100
80
60
40

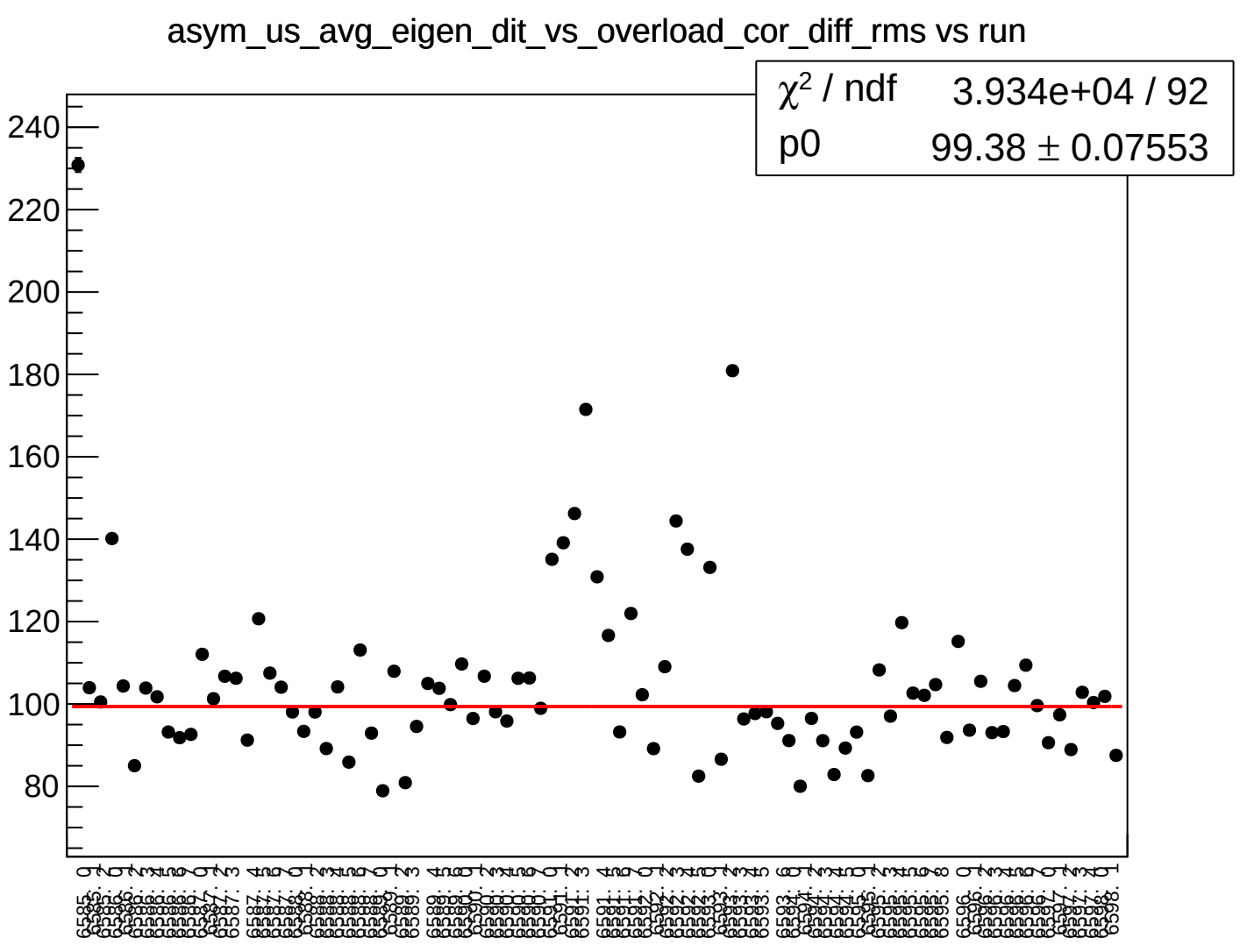

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.15 / 92
p0 −0.1972 ± 0.08482
pull
Entries 93
Mean 92.55
Std Dev 169.5

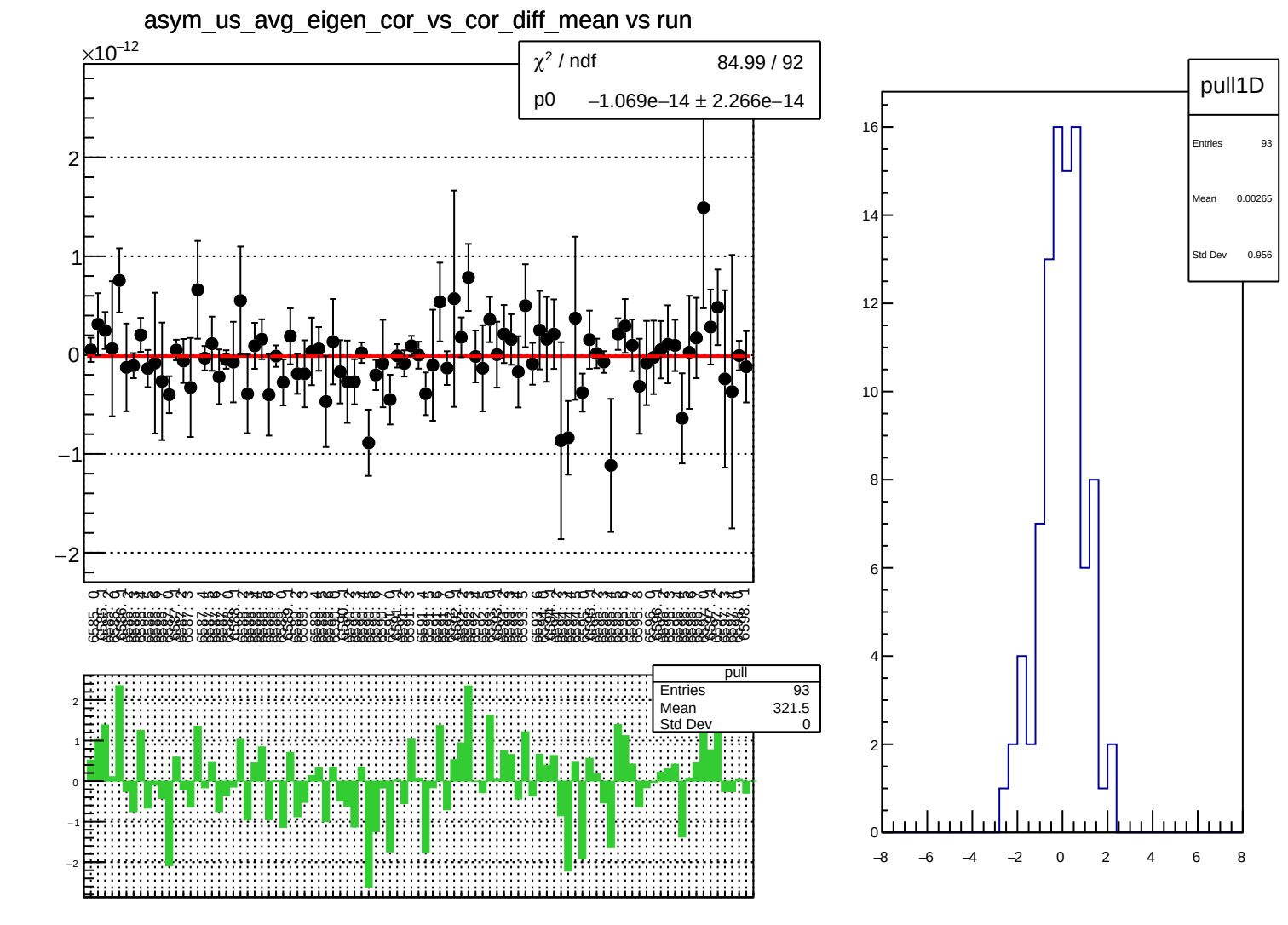

pull1D
Entries 93
Mean 0.003339
Std Dev 0.856

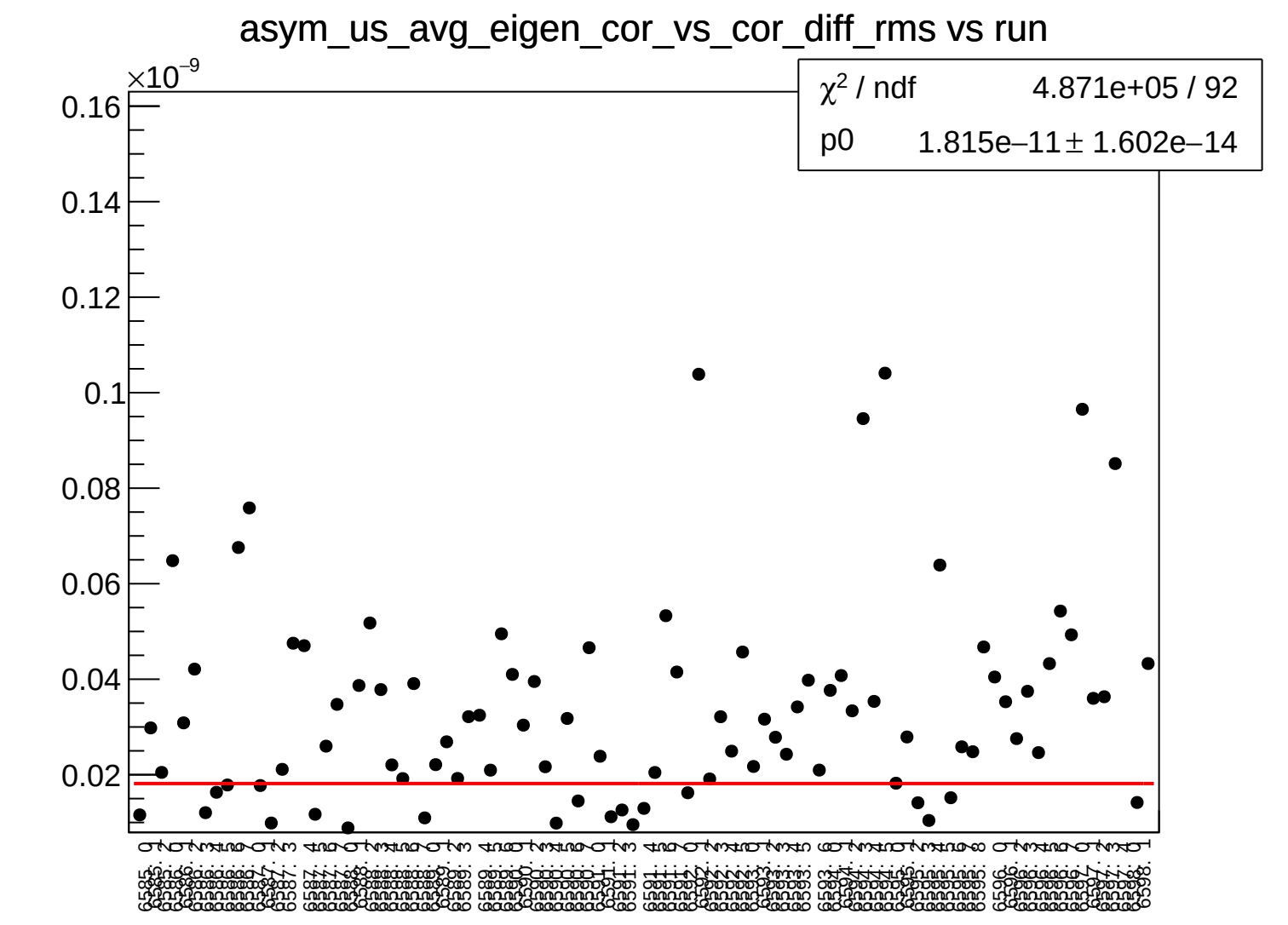

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.992e+04 / 92
p0 78.44 ± 0.05998
240
220
200
180
160
140
120
100
80
60
40

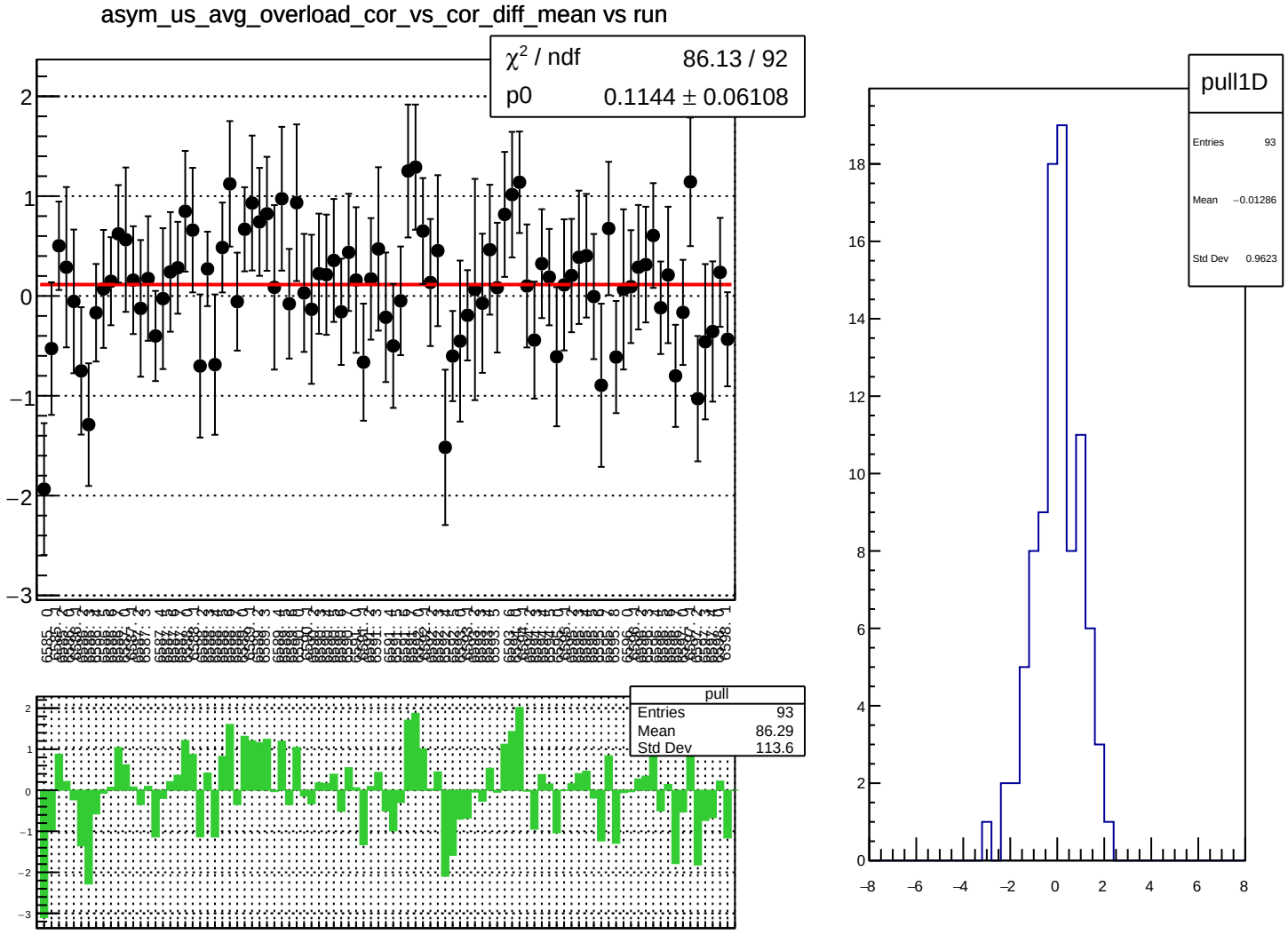

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 73.19 / 92
p0 −0.314 ± 0.1068
pull
Entries 93
Mean 177.4
Std Dev 83.32

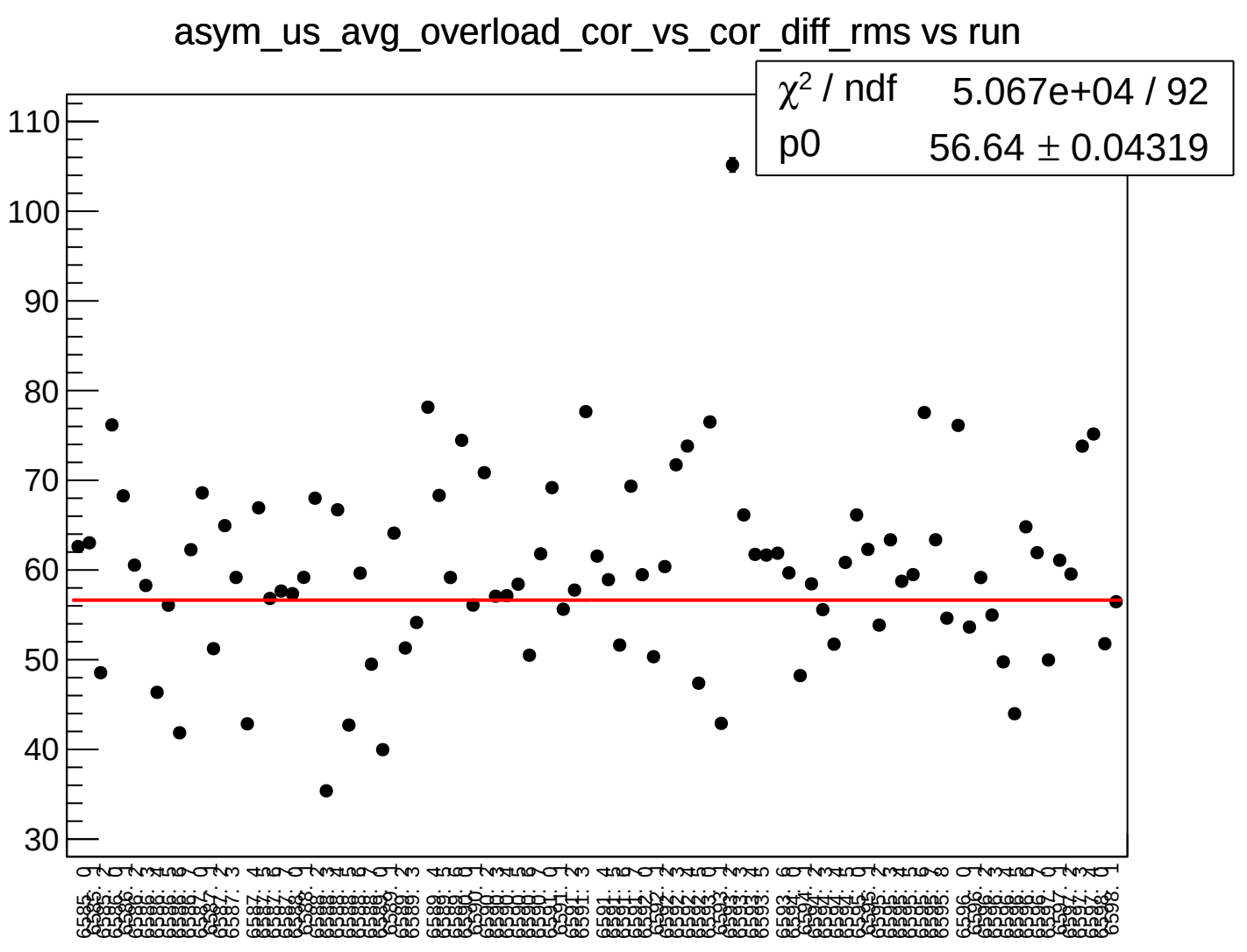

pull1D
Entries 93
Mean 0.007941
Std Dev 0.8871

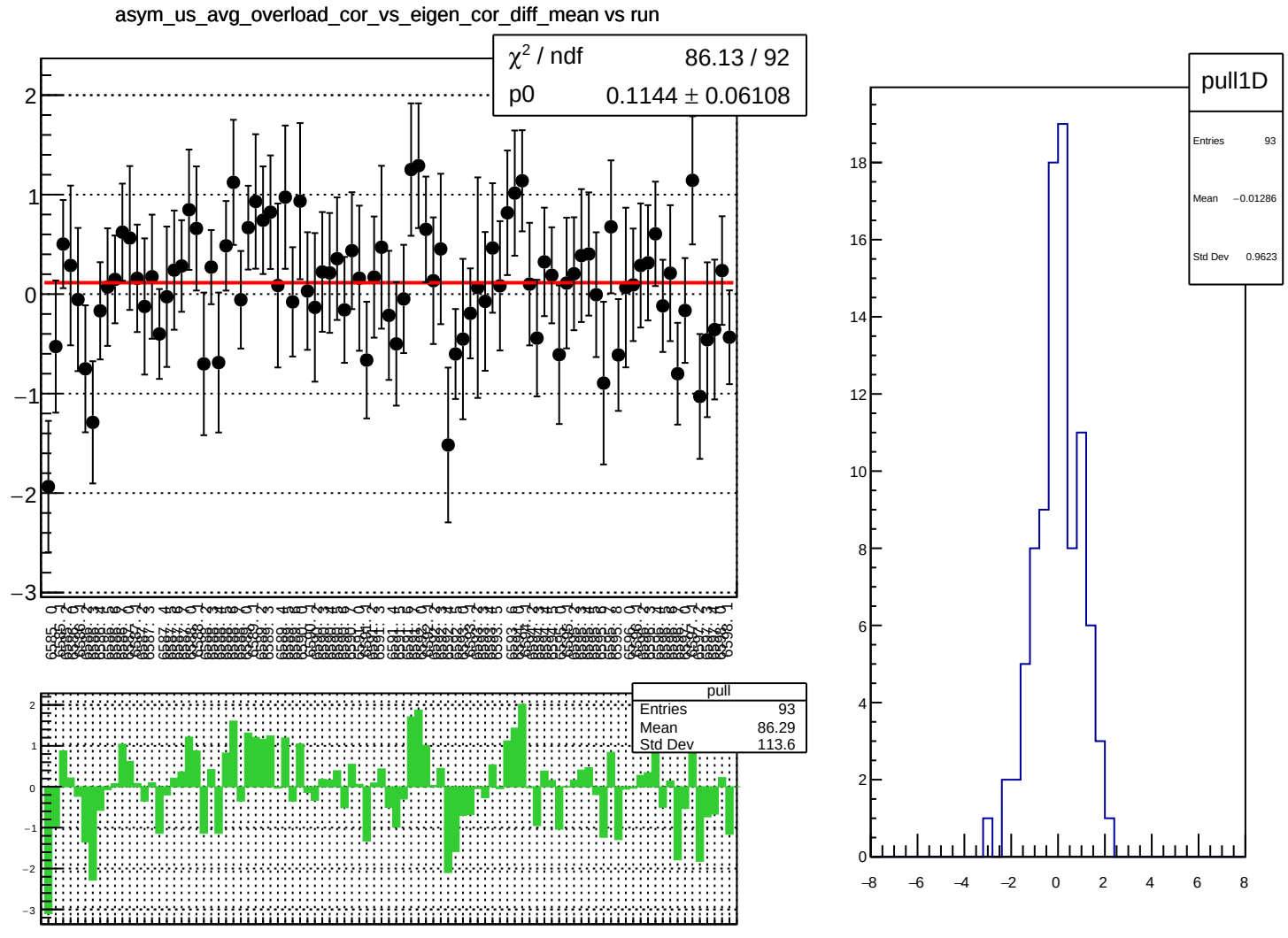

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.934e+04 / 92
p0 99.38 ± 0.07553
240
220
200
180
160
140
120
100
80

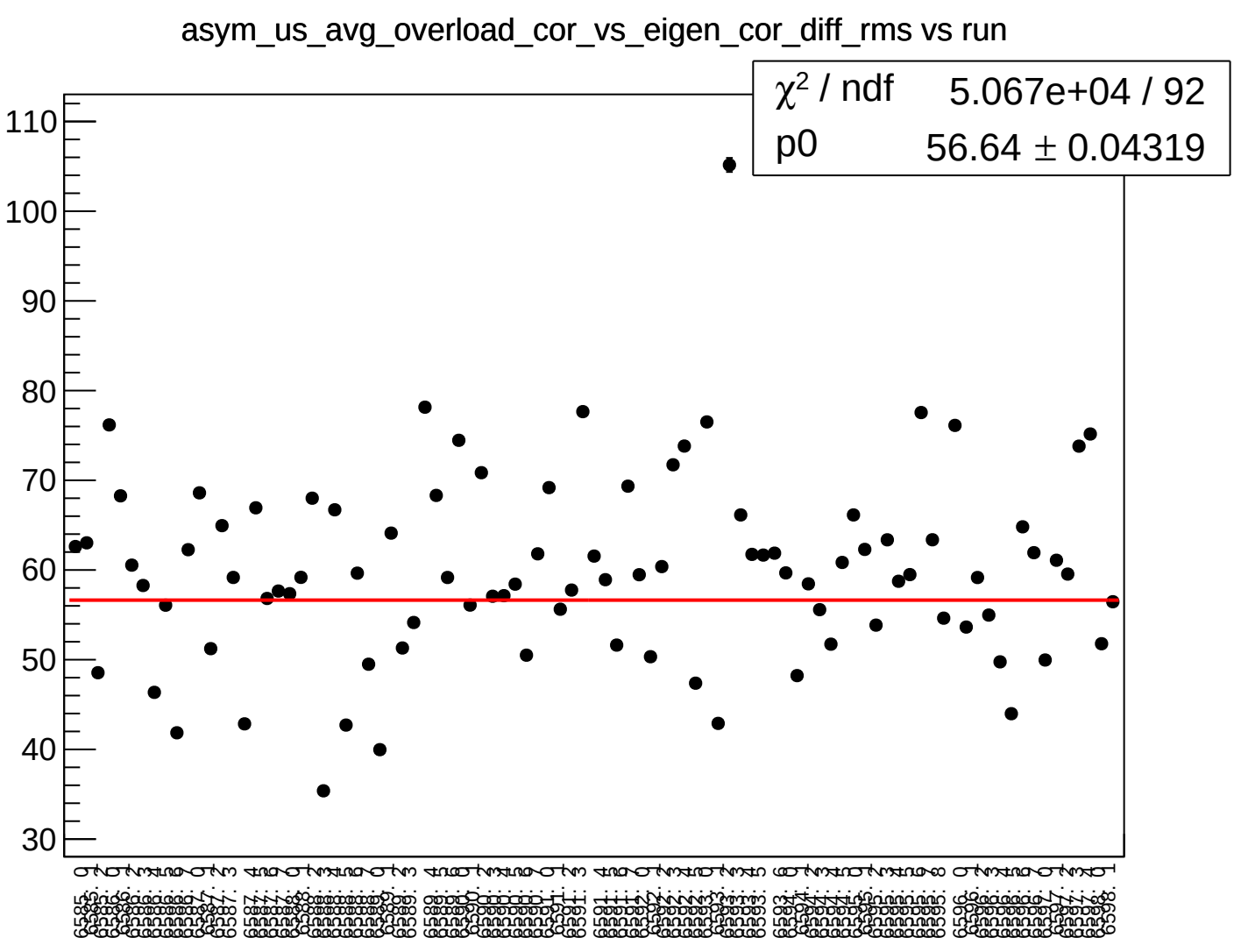

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.99 / 92
p0 −1.069e−14 ± 2.266e−14
pull
Entries 93
Mean 321.5
Std Dev 0
pull1D
Entries 93
Mean 0.00265
Std Dev 0.956

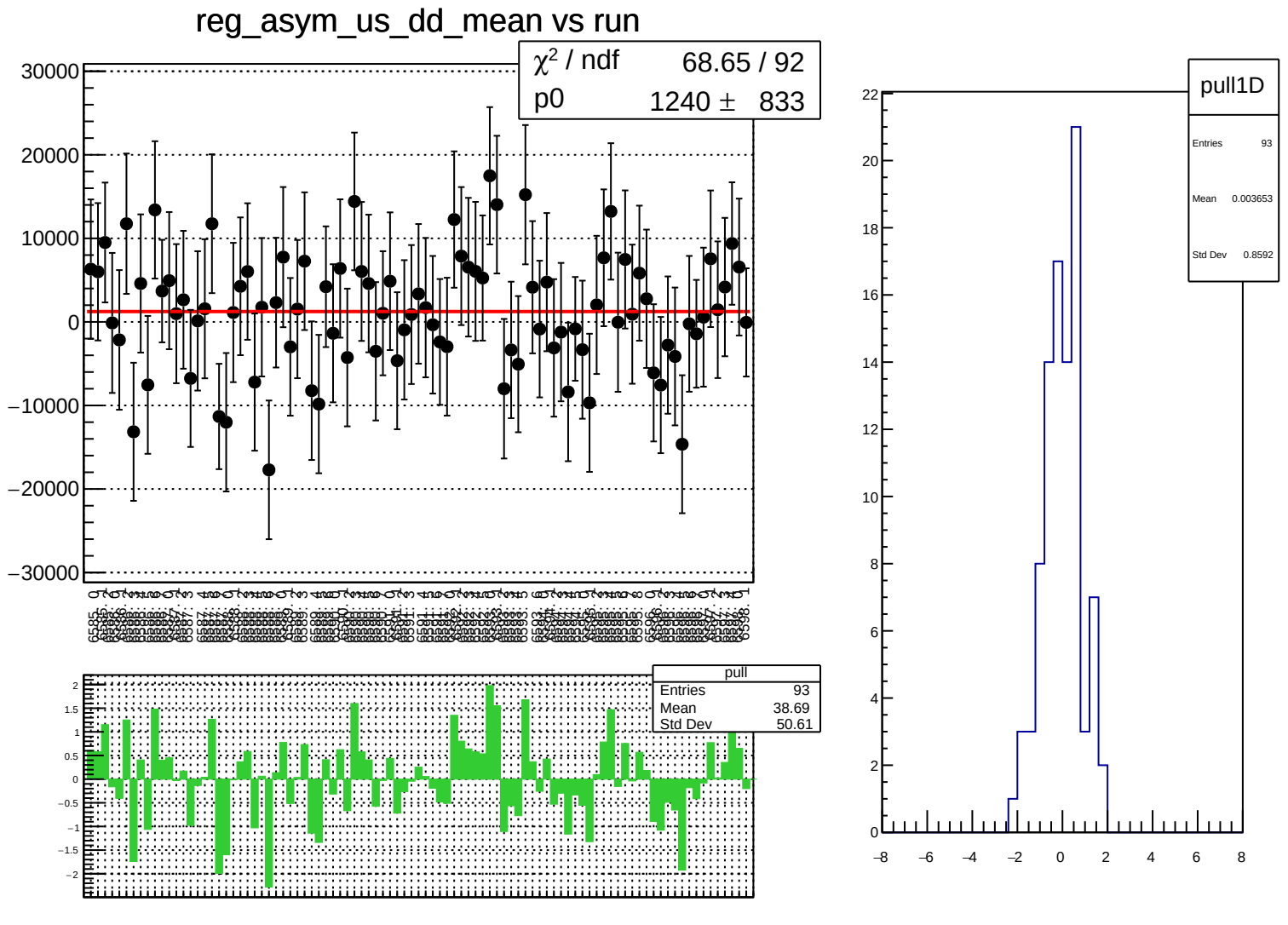

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.871e+05 / 92
p0 1.815e−11 ± 1.602e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

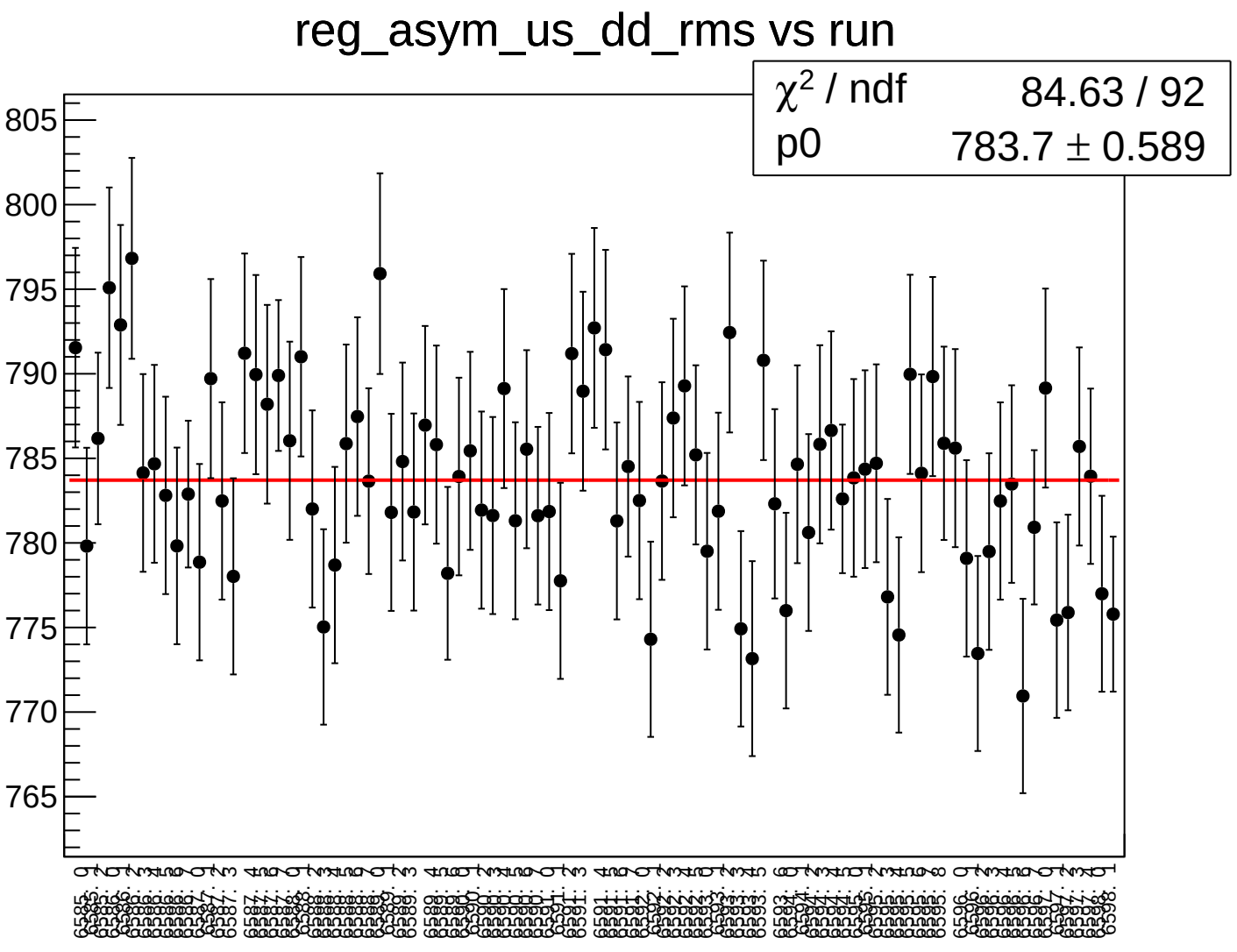

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 86.13 / 92
p0 0.1144 ± 0.06108
pull
Entries 93
Mean 86.29
Std Dev 113.6
pull1D
Entries 93
Mean −0.01286
Std Dev 0.9623

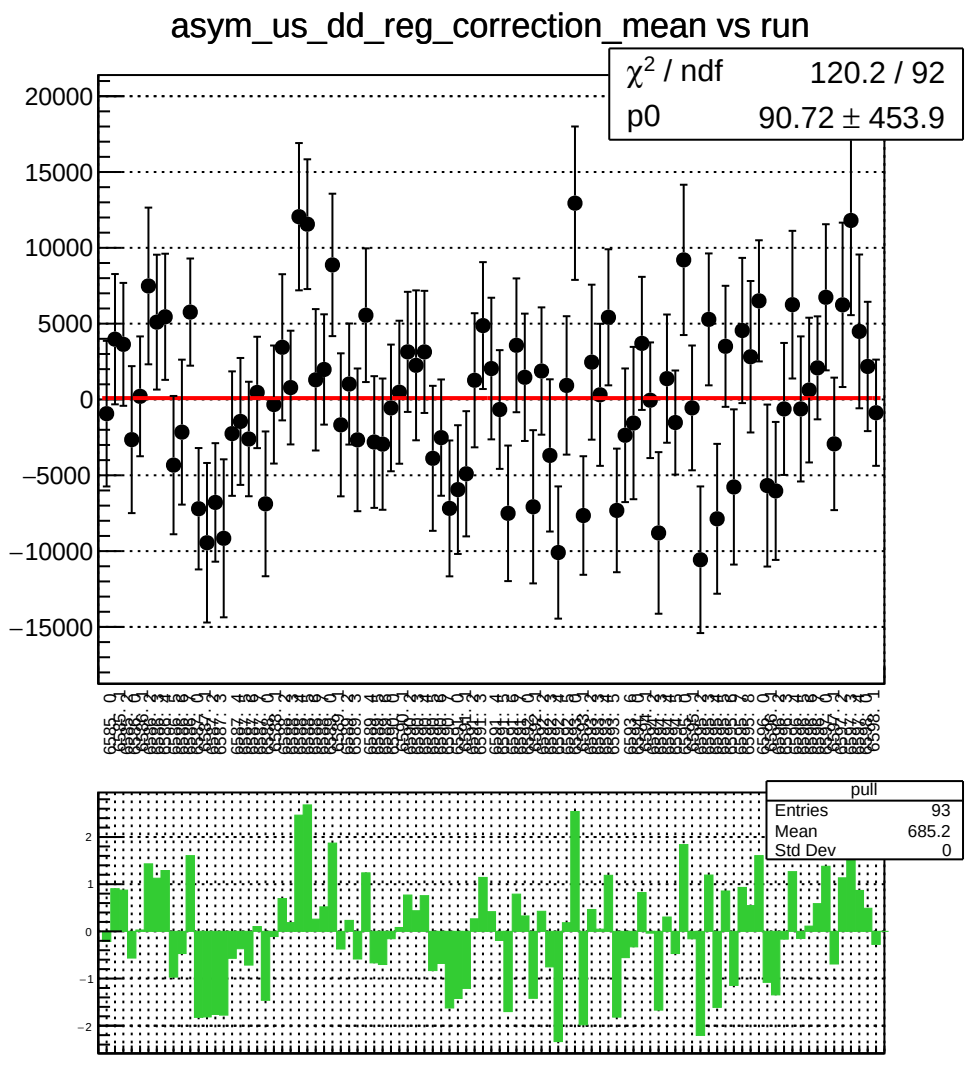

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.067e+04 / 92
p0 56.64 ± 0.04319
110
100
90
80
70
60
50
40
30

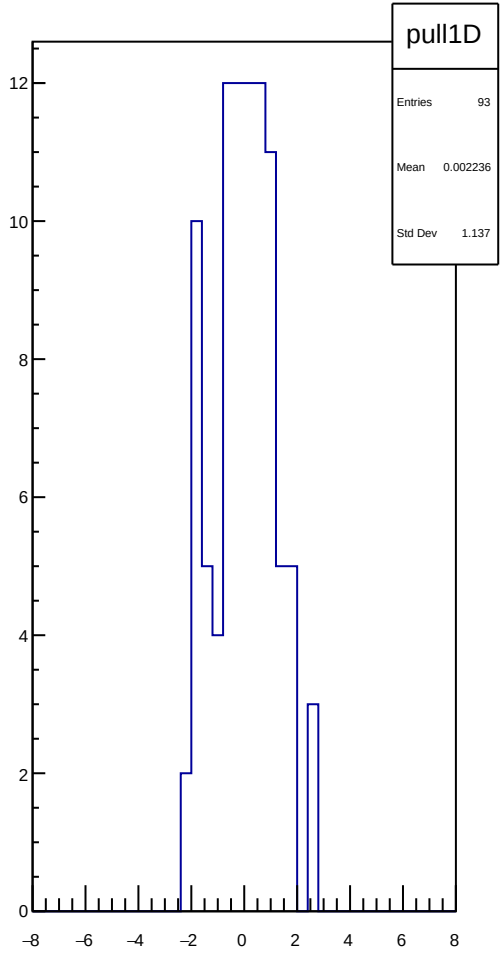

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.13 / 92
p0 0.1144 ± 0.06108
pull
Entries 93
Mean 86.29
Std Dev 113.6
pull1D
Entries 93
Mean −0.01286
Std Dev 0.9623

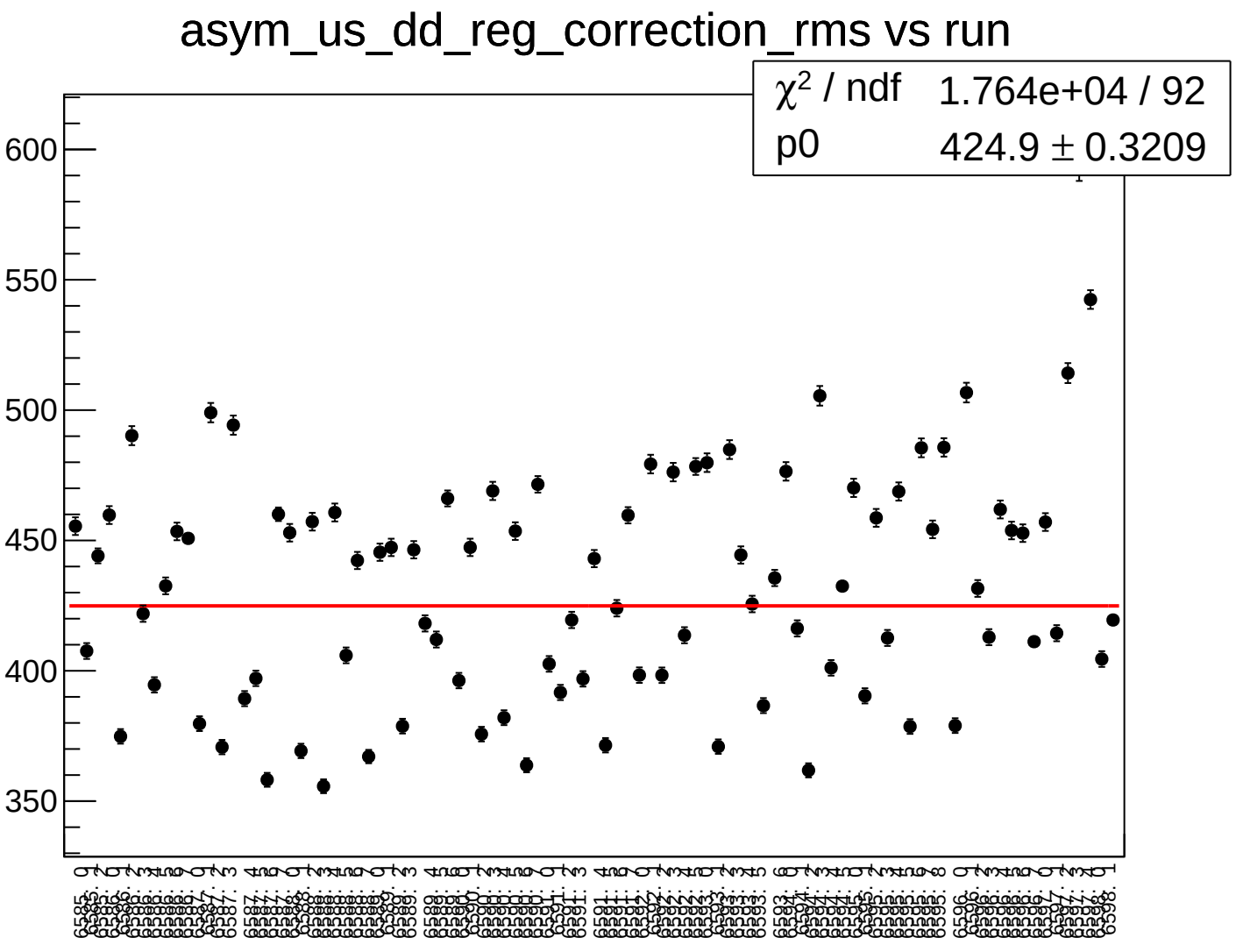

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.067e+04 / 92
p0 56.64 ± 0.04319
110
100
90
80
70
60
50
40
30

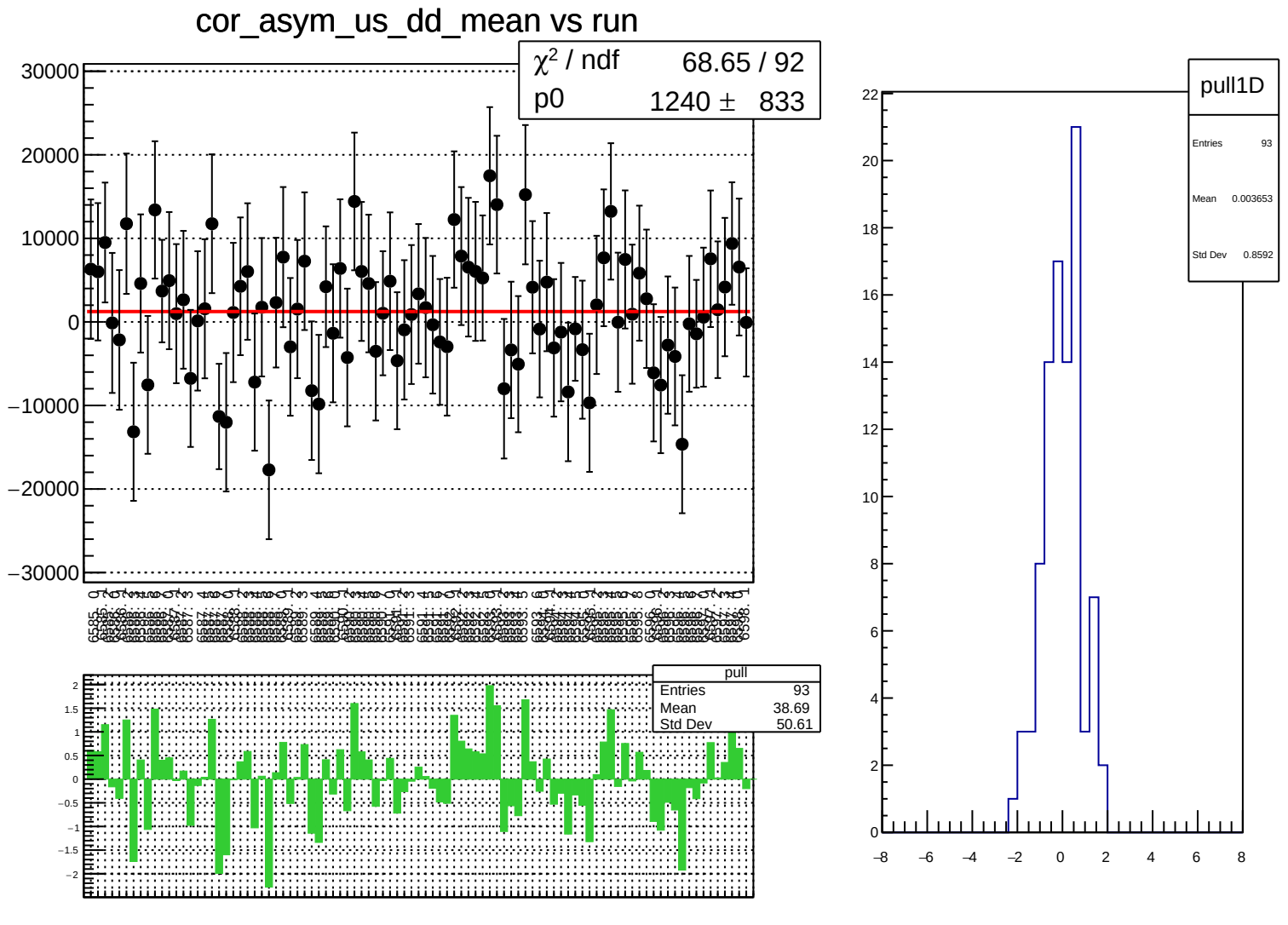

reg_asym_us_dd_mean vs run
χ² / ndf 68.65 / 92
p0 1240 ± 833
pull
Entries 93
Mean 38.69
Std Dev 50.61
pull1D
Entries 93
Mean 0.003653
Std Dev 0.8592

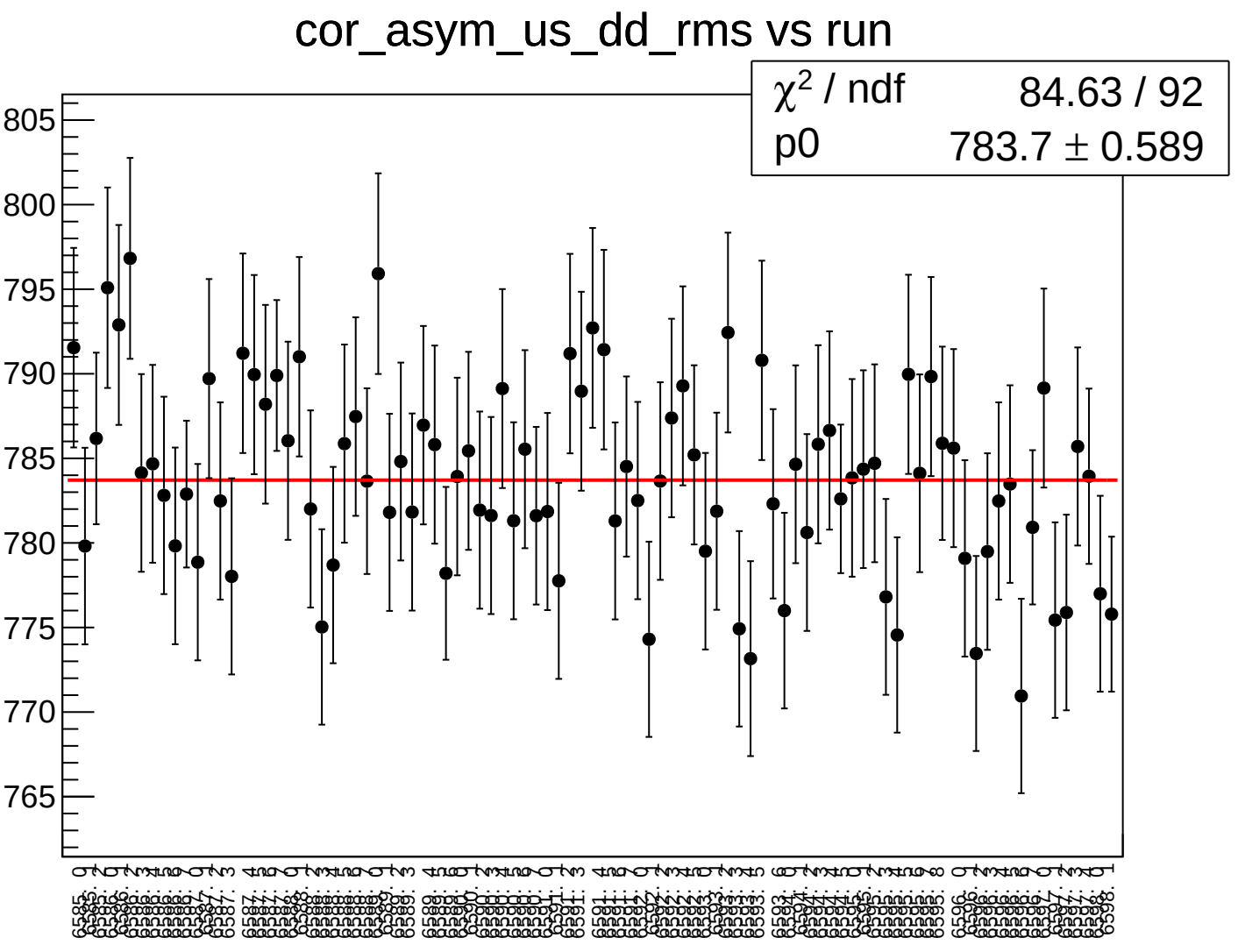

reg_asym_us_dd_rms vs run
χ² / ndf 84.63 / 92
p0 783.7 ± 0.589
805
800
795
790
785
780
775
770
765

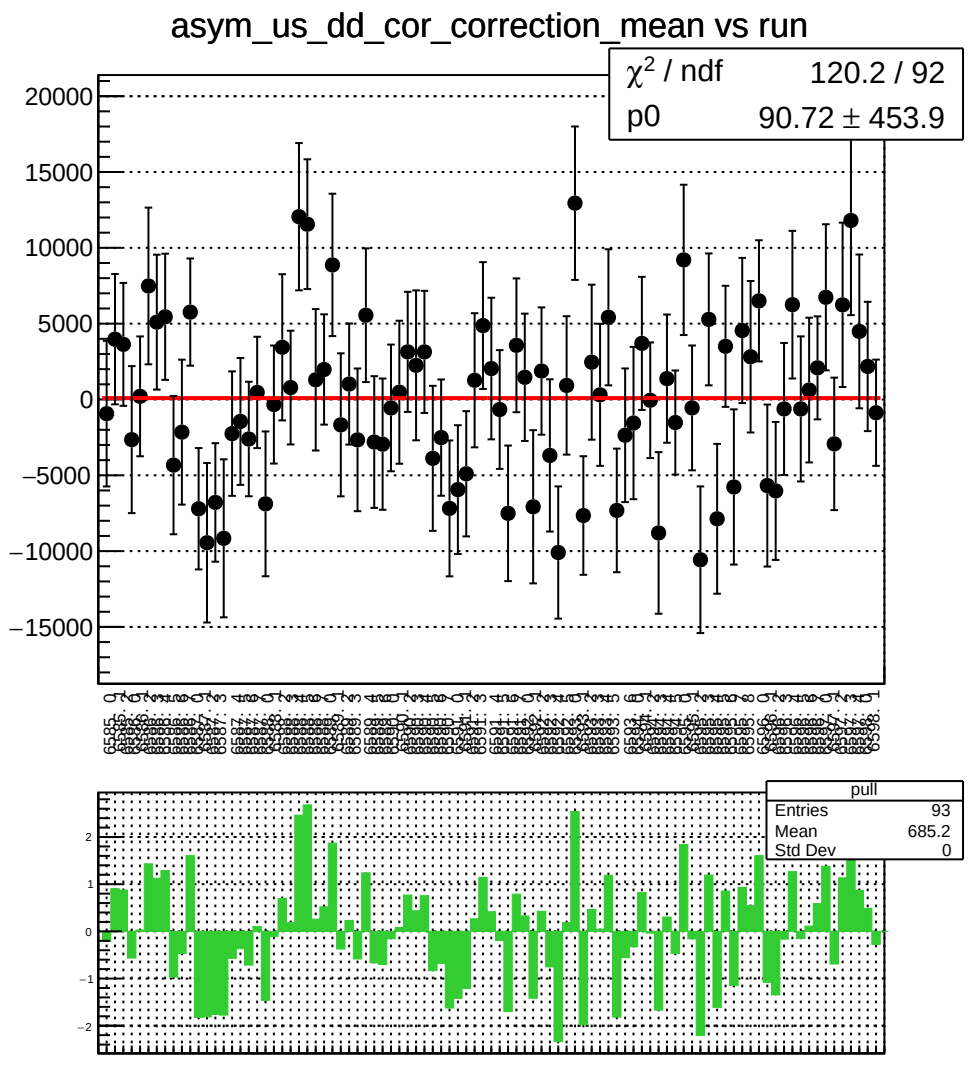

asym_us_dd_reg_correction_mean vs run
χ² / ndf 120.2 / 92
p0 90.72 ± 453.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 685.2
Std Dev 0
2
1
0
−1
−2

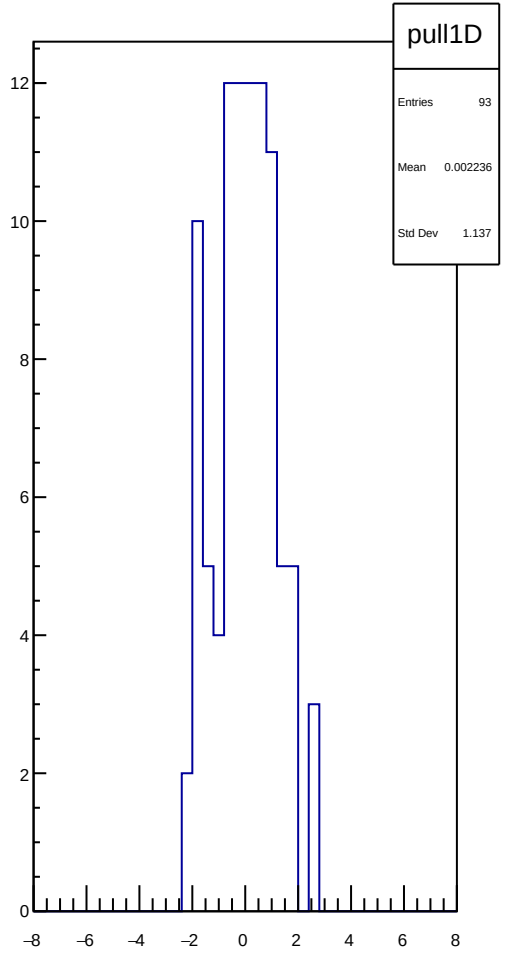

pull1D
Entries 93
Mean 0.002236
Std Dev 1.137
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

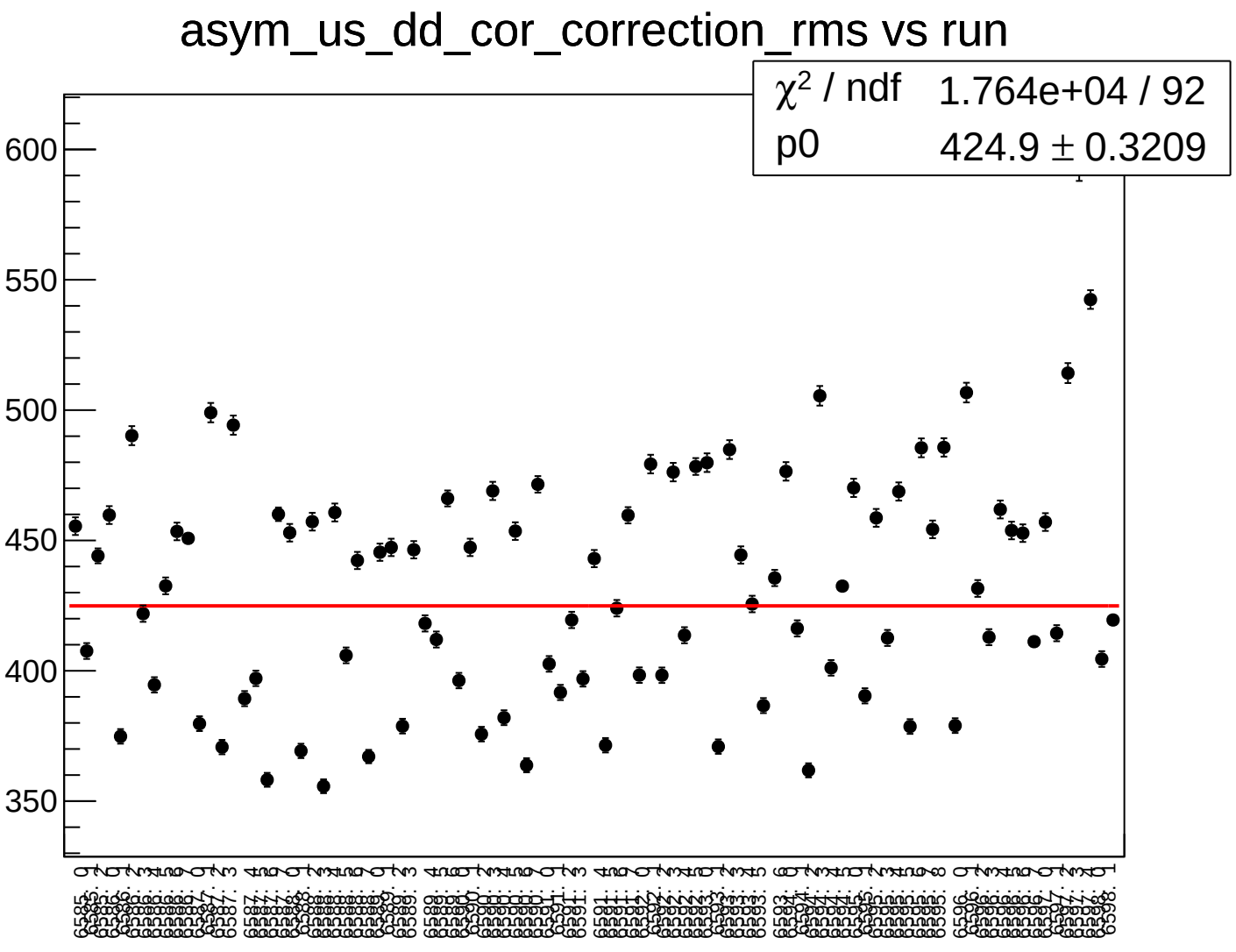

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.764e+04 / 92
p0 424.9 ± 0.3209
600
550
500
450
400
350

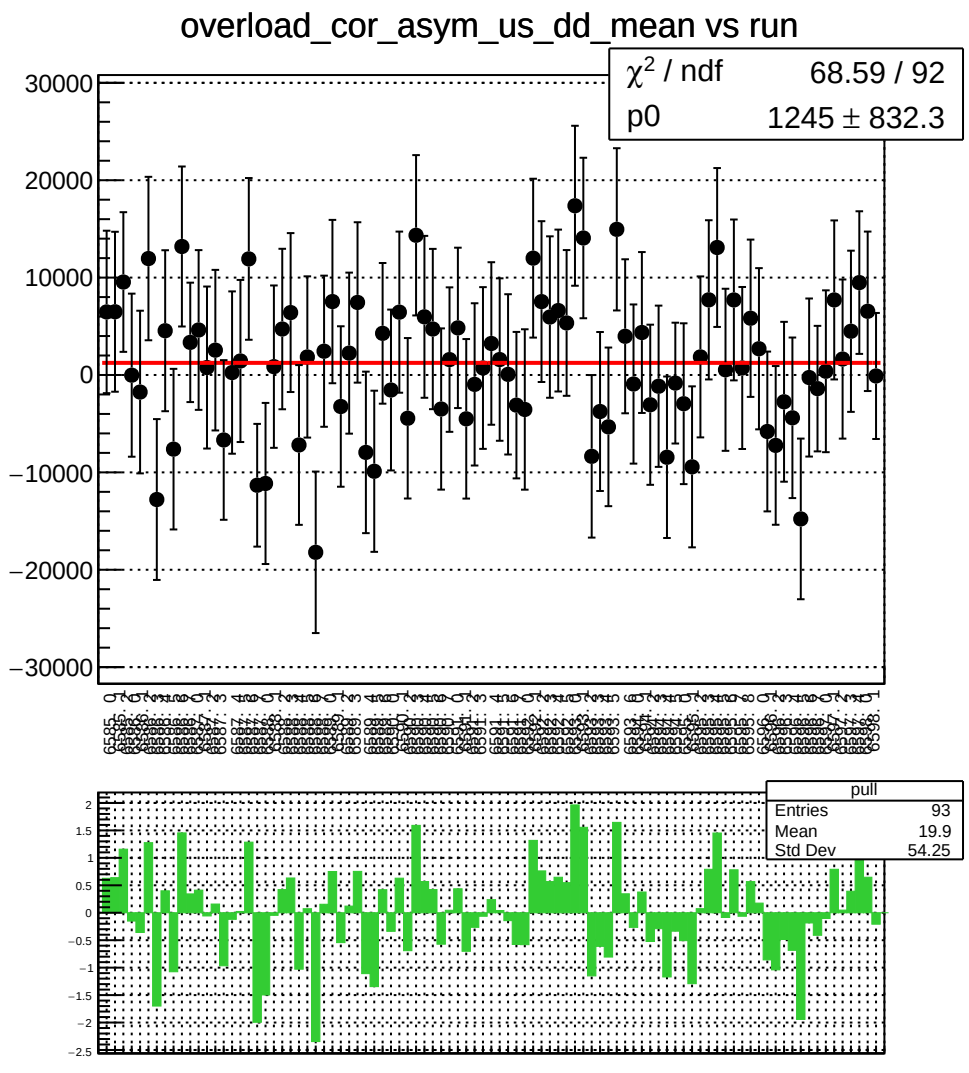

cor_asym_us_dd_mean vs run
χ² / ndf 68.65 / 92
p0 1240 ± 833
pull
Entries 93
Mean 38.69
Std Dev 50.61
pull1D
Entries 93
Mean 0.003653
Std Dev 0.8592

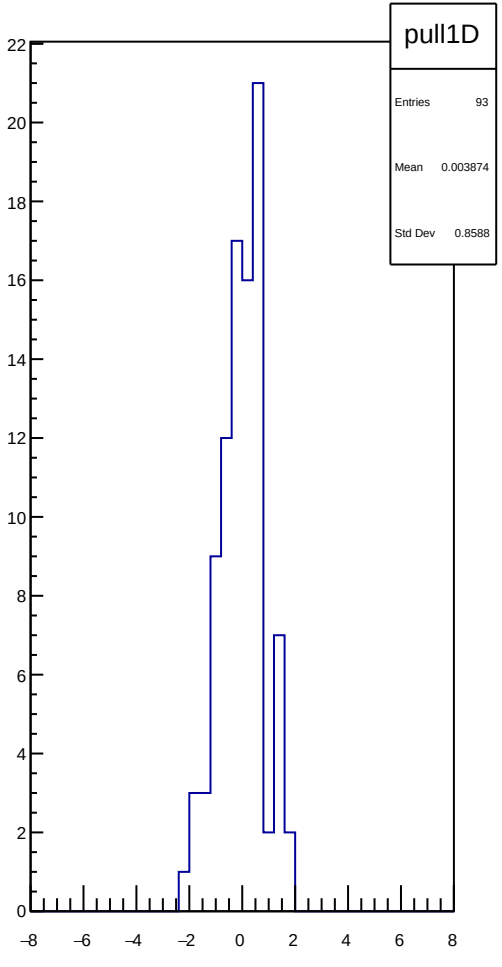

cor_asym_us_dd_rms vs run
χ^2 / ndf 84.63 / 92
p0 783.7 ± 0.589
805
800
795
790
785
780
775
770
765

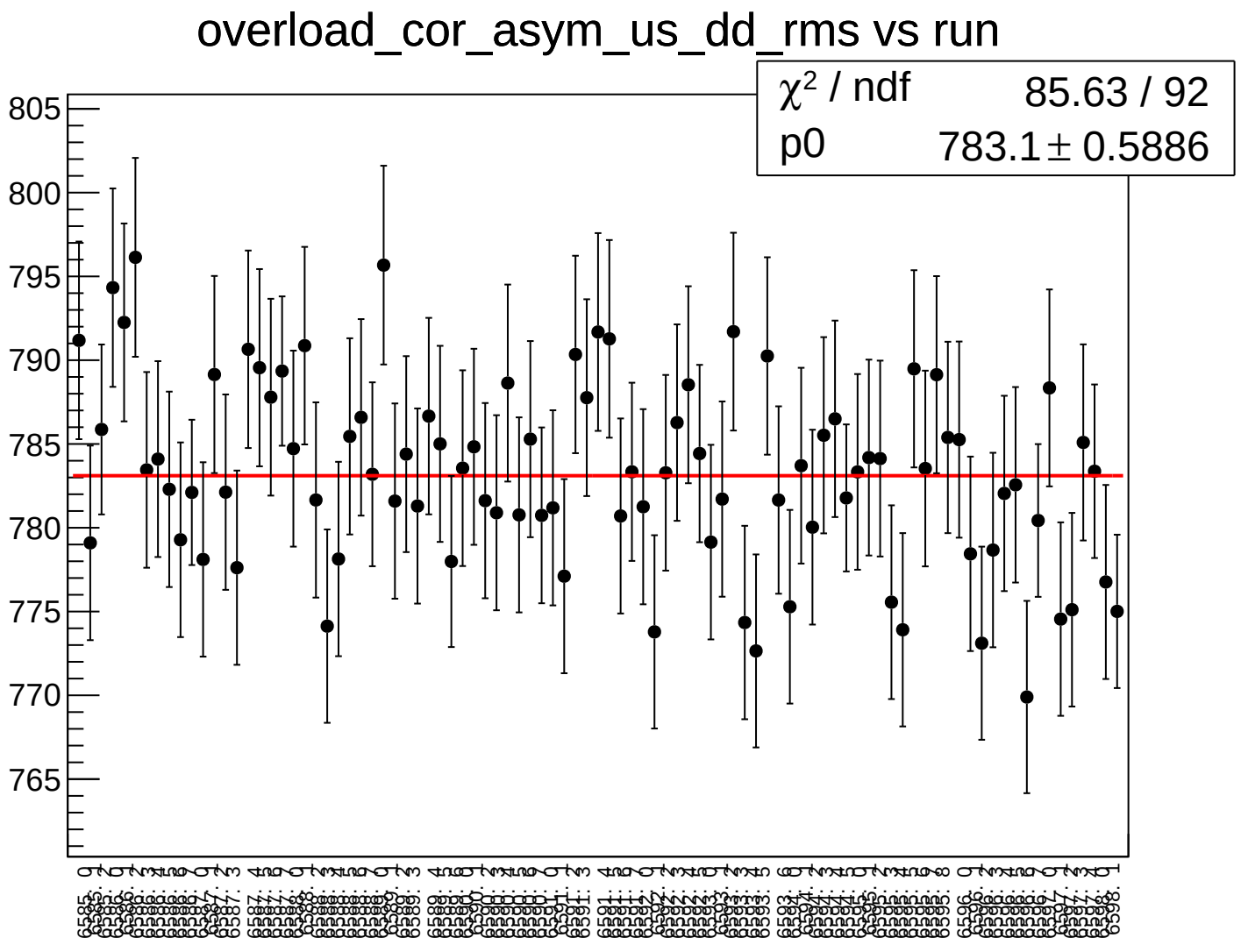

asym_us_dd_cor_correction_mean vs run
χ² / ndf 120.2 / 92
p0 90.72 ± 453.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 685.2
Std Dev 0
2
1
0
−1
−2

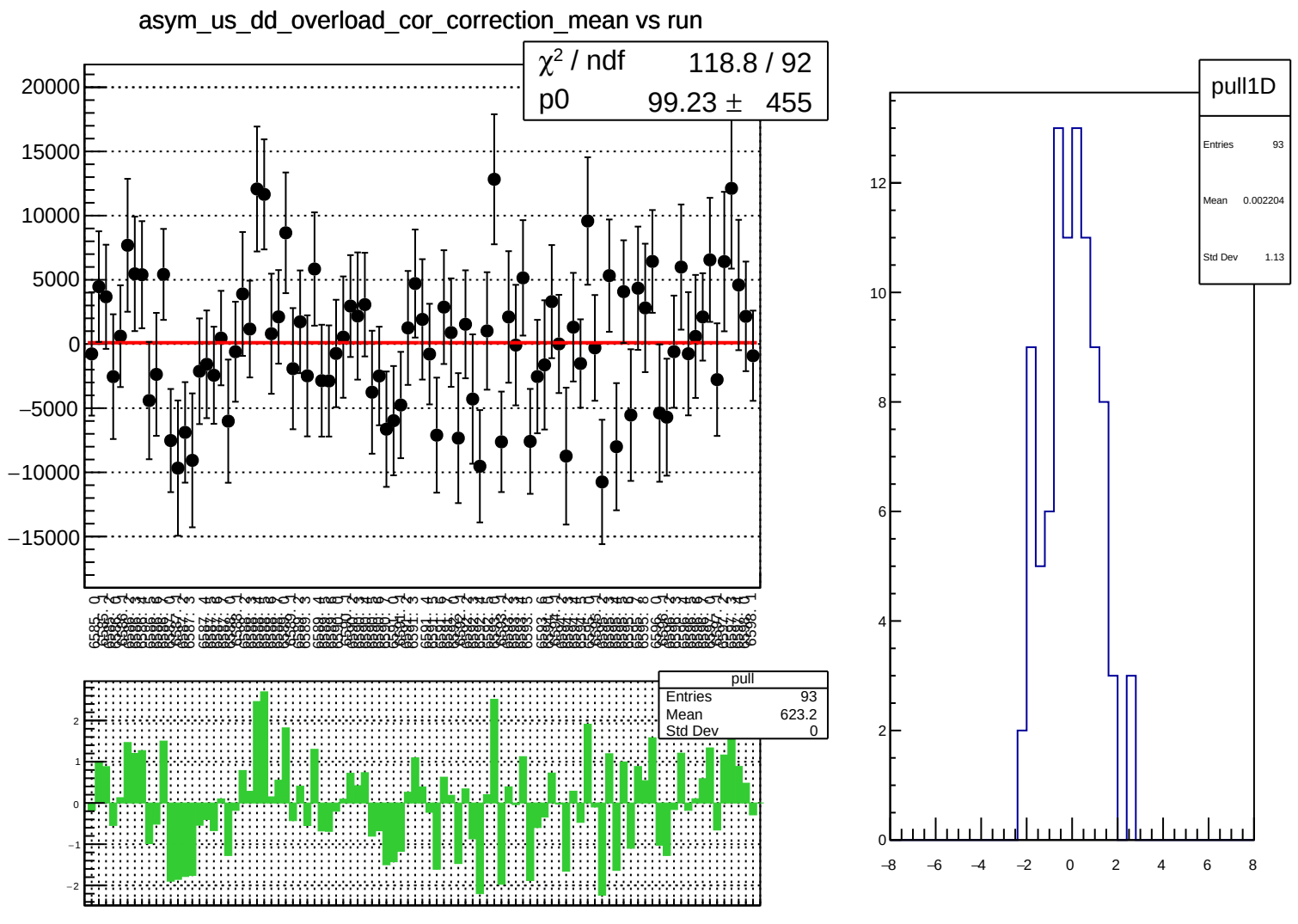

pull1D
Entries 93
Mean 0.002236
Std Dev 1.137
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

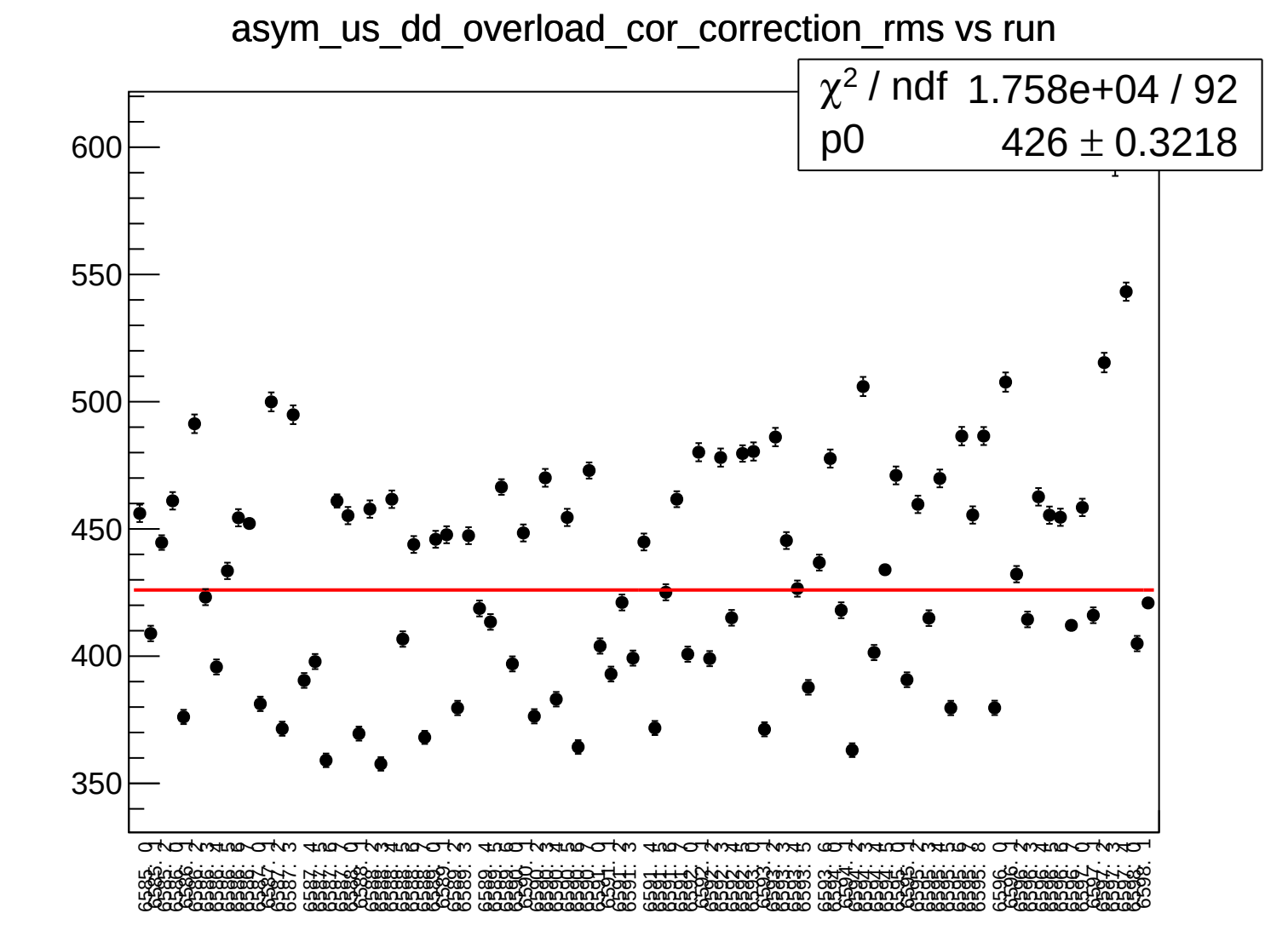

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.764e+04 / 92
p0 424.9 ± 0.3209
600
550
500
450
400
350

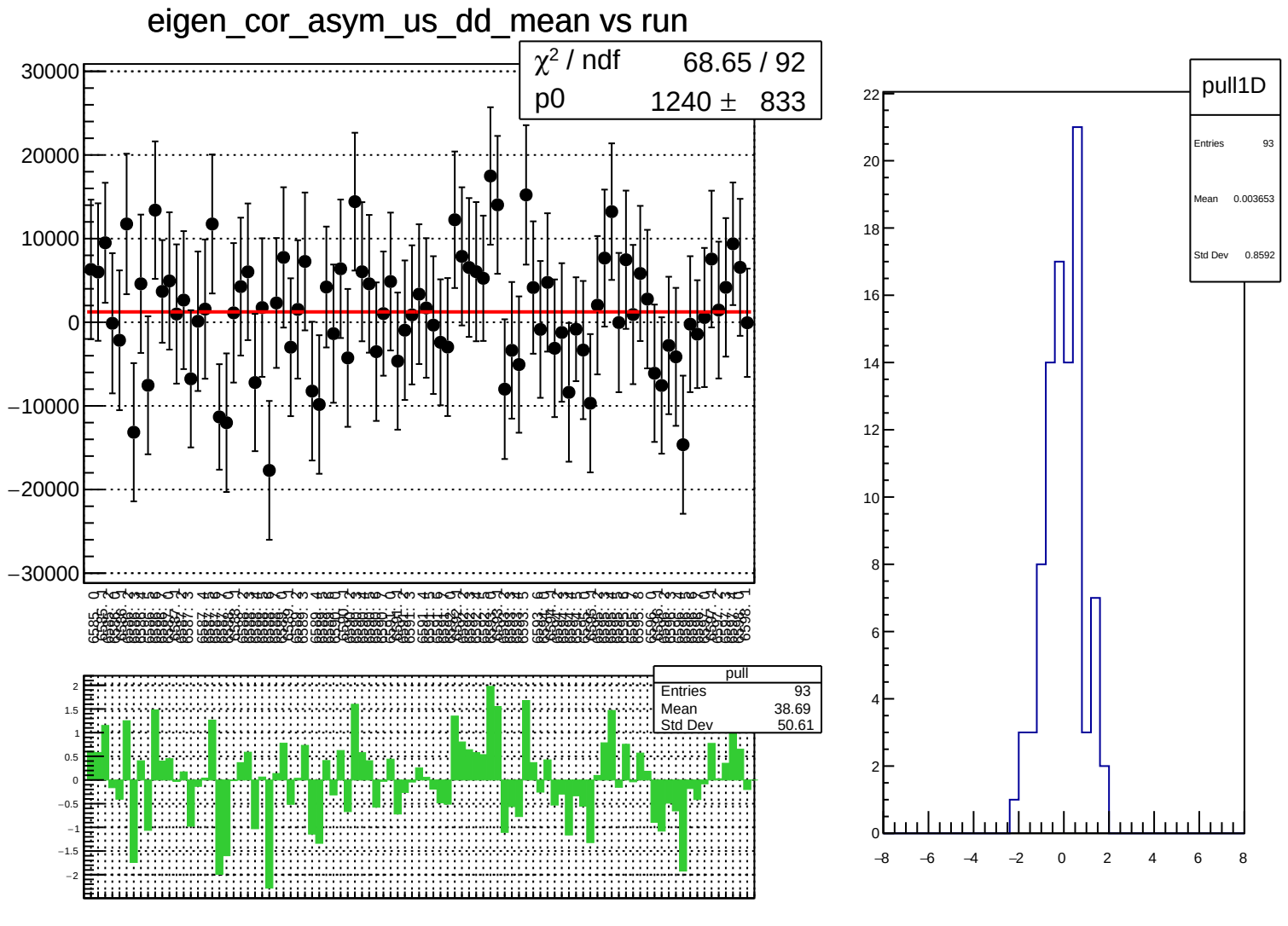

overload_cor_asym_us_dd_mean vs run
χ² / ndf 68.59 / 92
p0 1245 ± 832.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 19.9
Std Dev 54.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

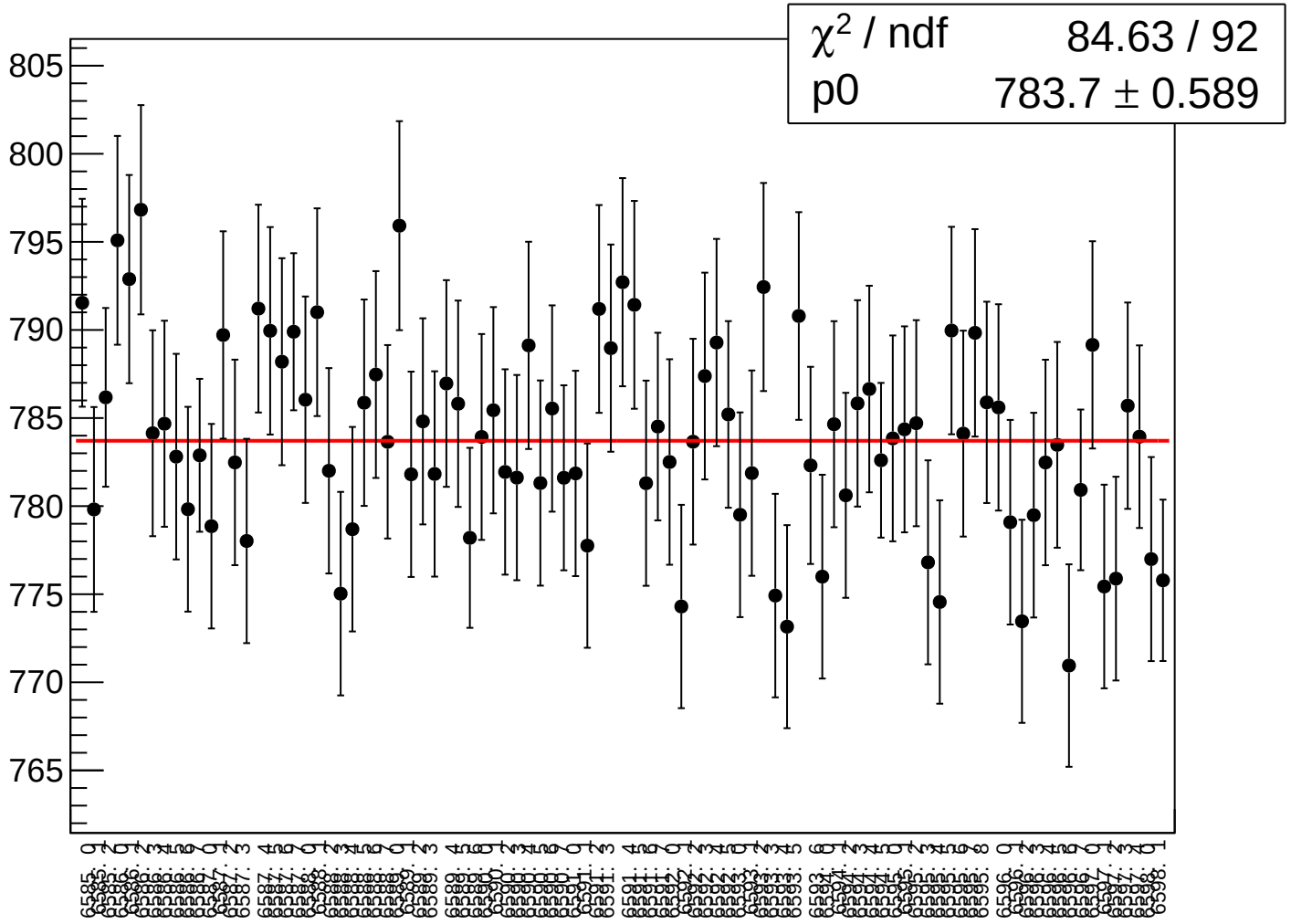

pull1D
Entries 93
Mean 0.003874
Std Dev 0.8588
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

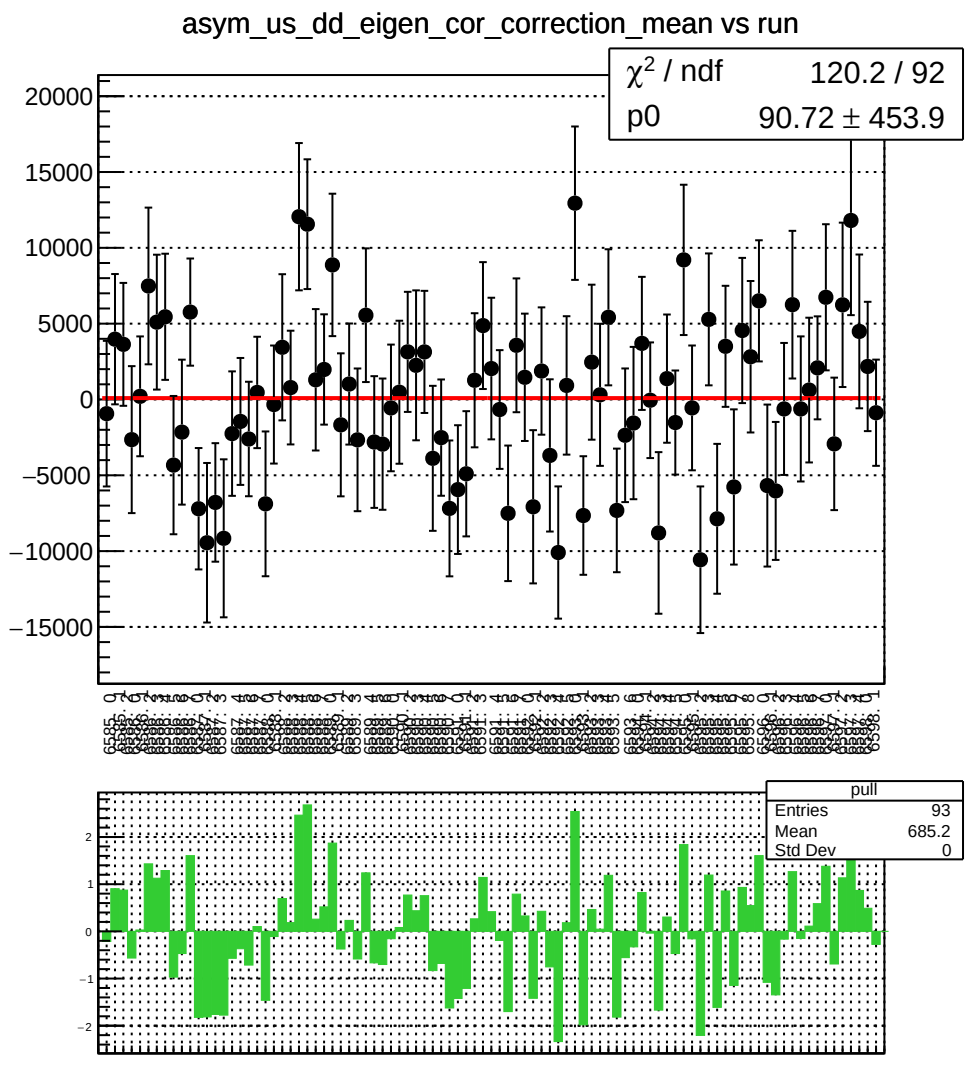

overload_cor_asym_us_dd_rms vs run
χ² / ndf 85.63 / 92
p0 783.1 ± 0.5886
805
800
795
790
785
780
775
770
765

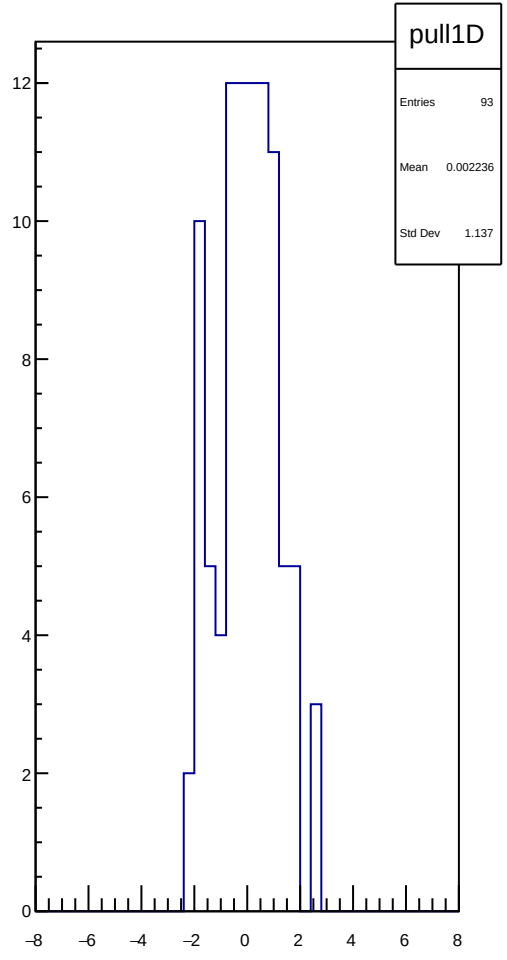

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 118.8 / 92
p0 99.23 ± 455
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 623.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002204
Std Dev 1.13
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

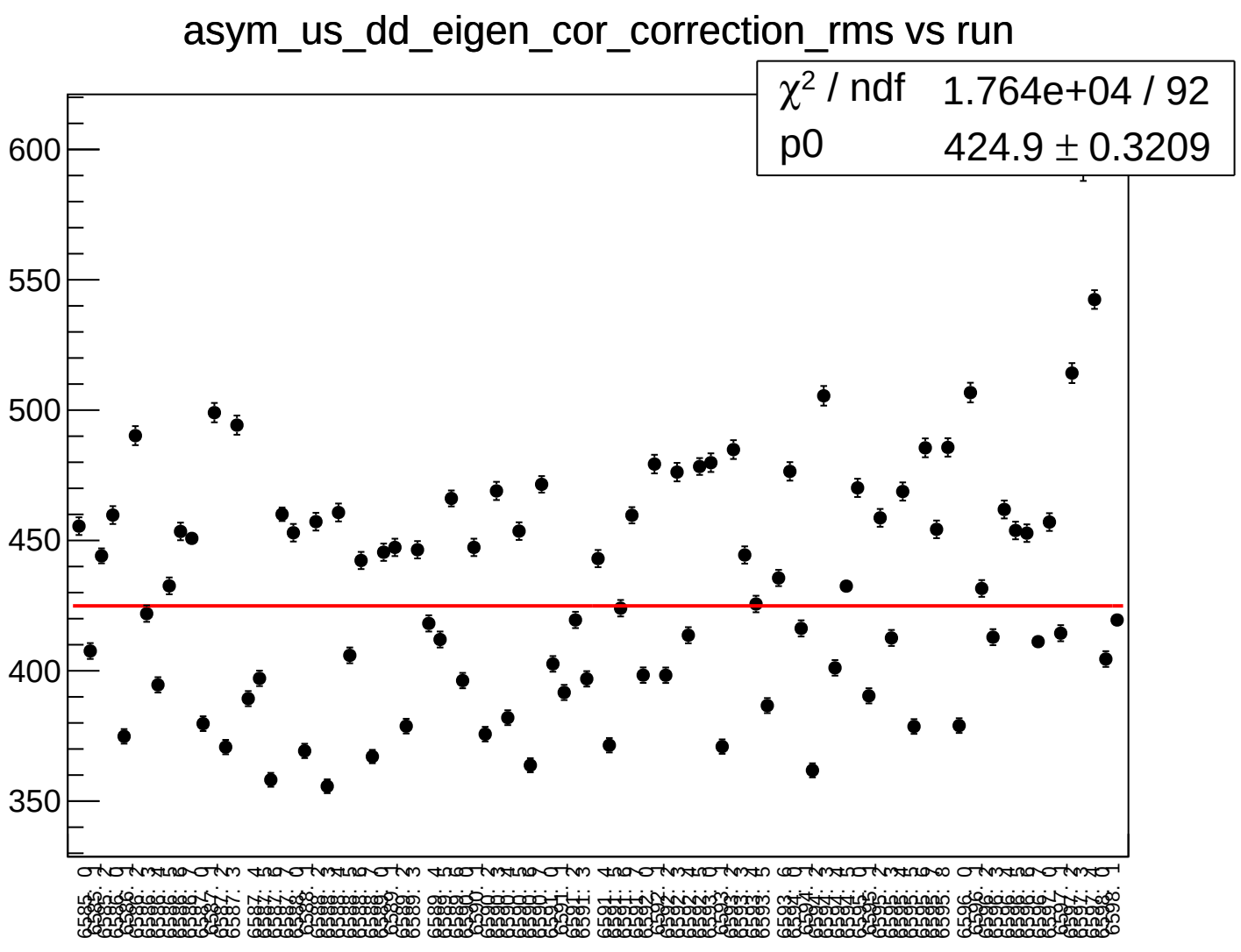

asym_us_dd_overload_cor_correction_rms vs run
χ^2 / ndf 1.758e+04 / 92
p0 426 ± 0.3218
600
550
500
450
400
350

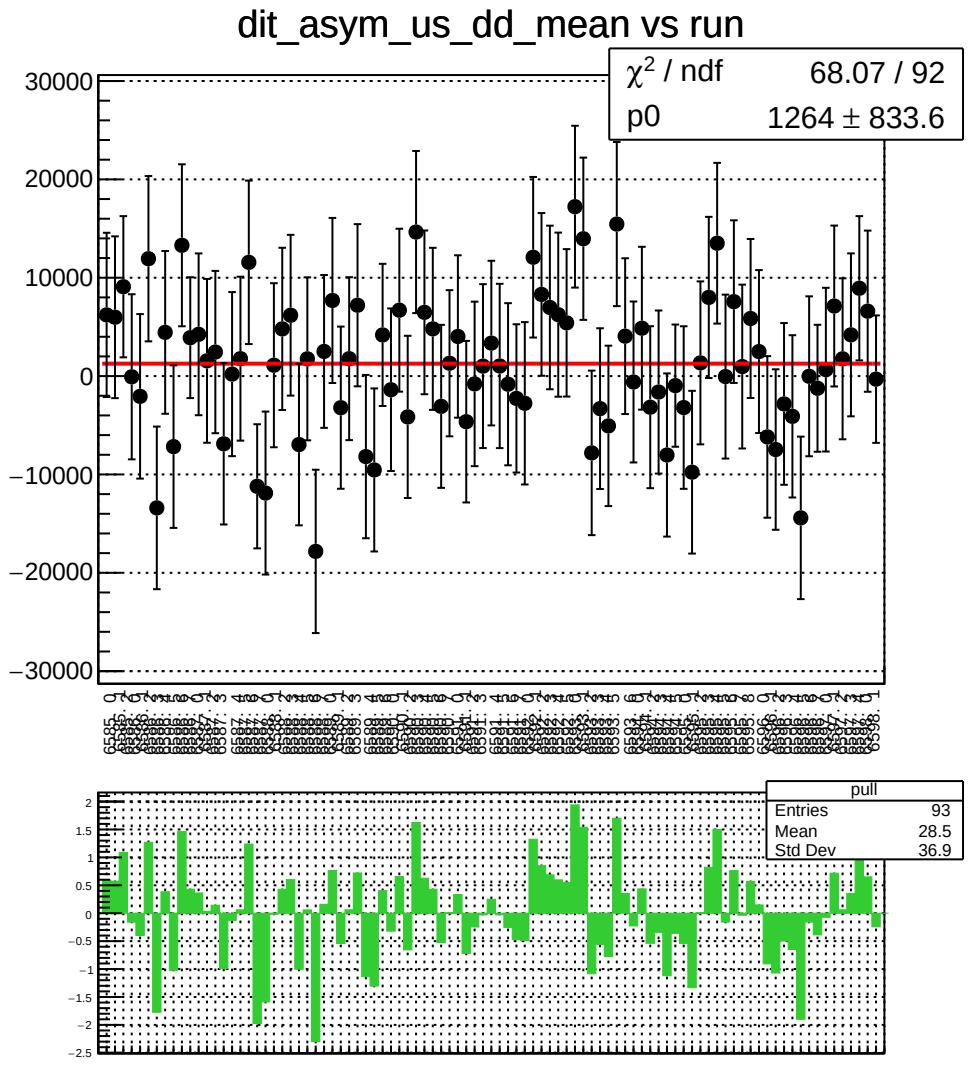

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 68.65 / 92
p0 1240 ± 833
pull
Entries 93
Mean 38.69
Std Dev 50.61
pull1D
Entries 93
Mean 0.003653
Std Dev 0.8592

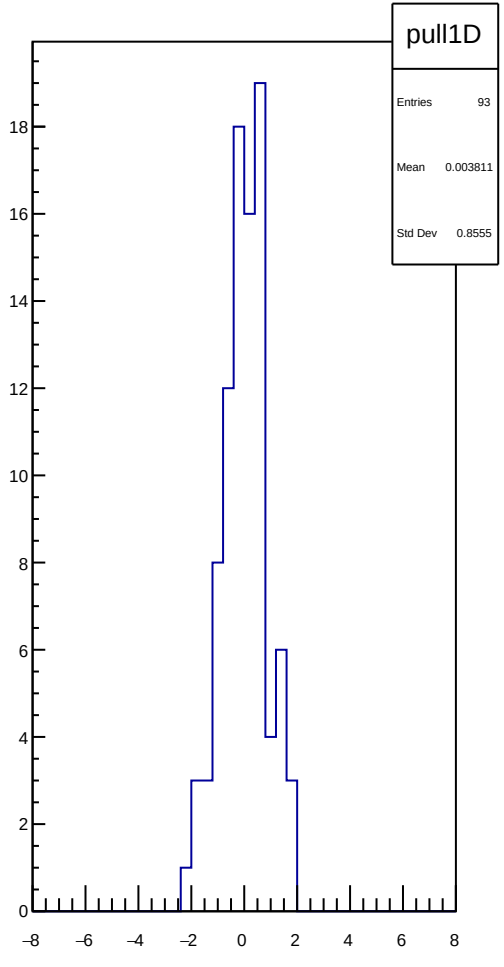

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 84.63 / 92
p0 783.7 ± 0.589
805
800
795
790
785
780
775
770
765

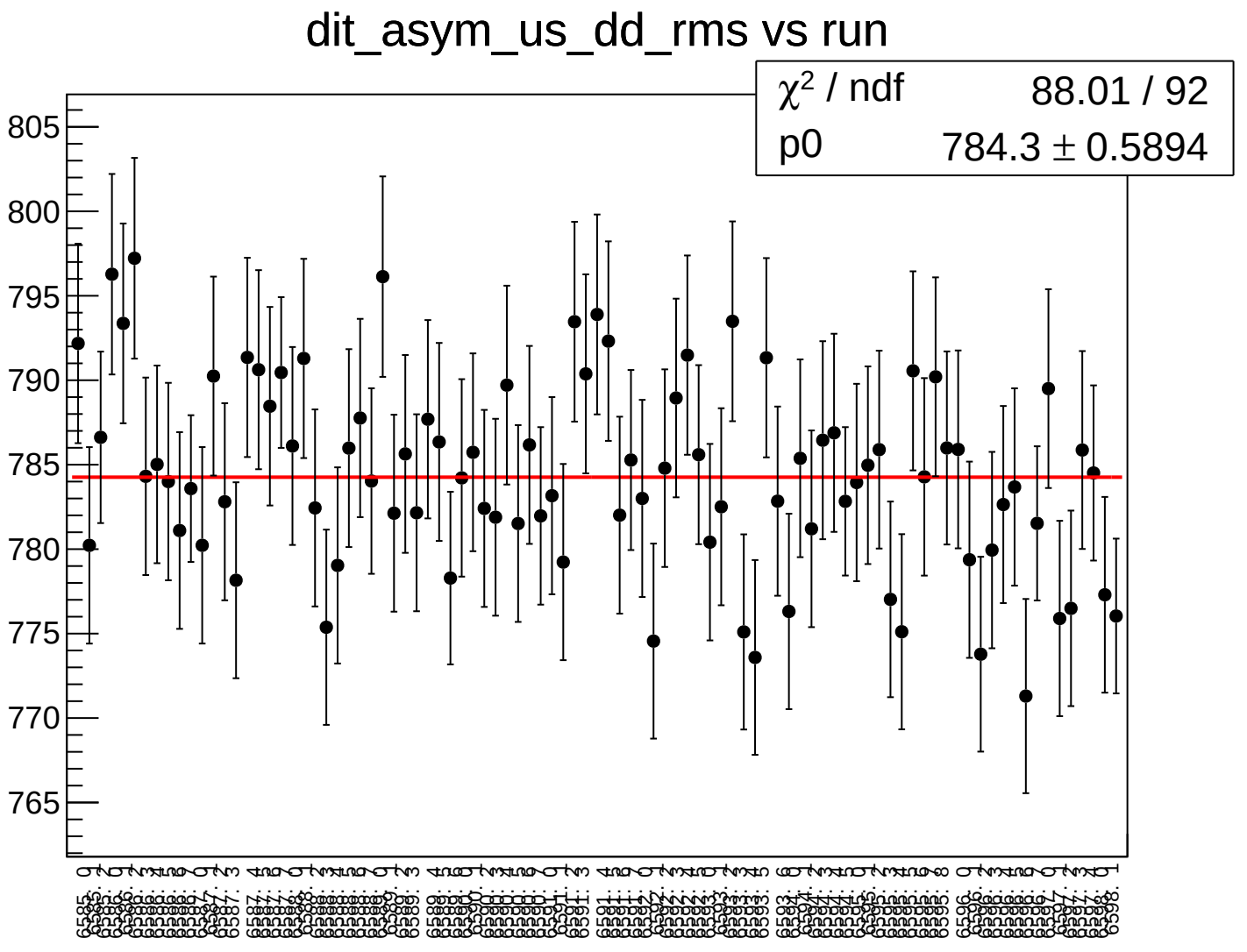

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 120.2 / 92
p0 90.72 ± 453.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 685.2
Std Dev 0
2
1
0
−1
−2

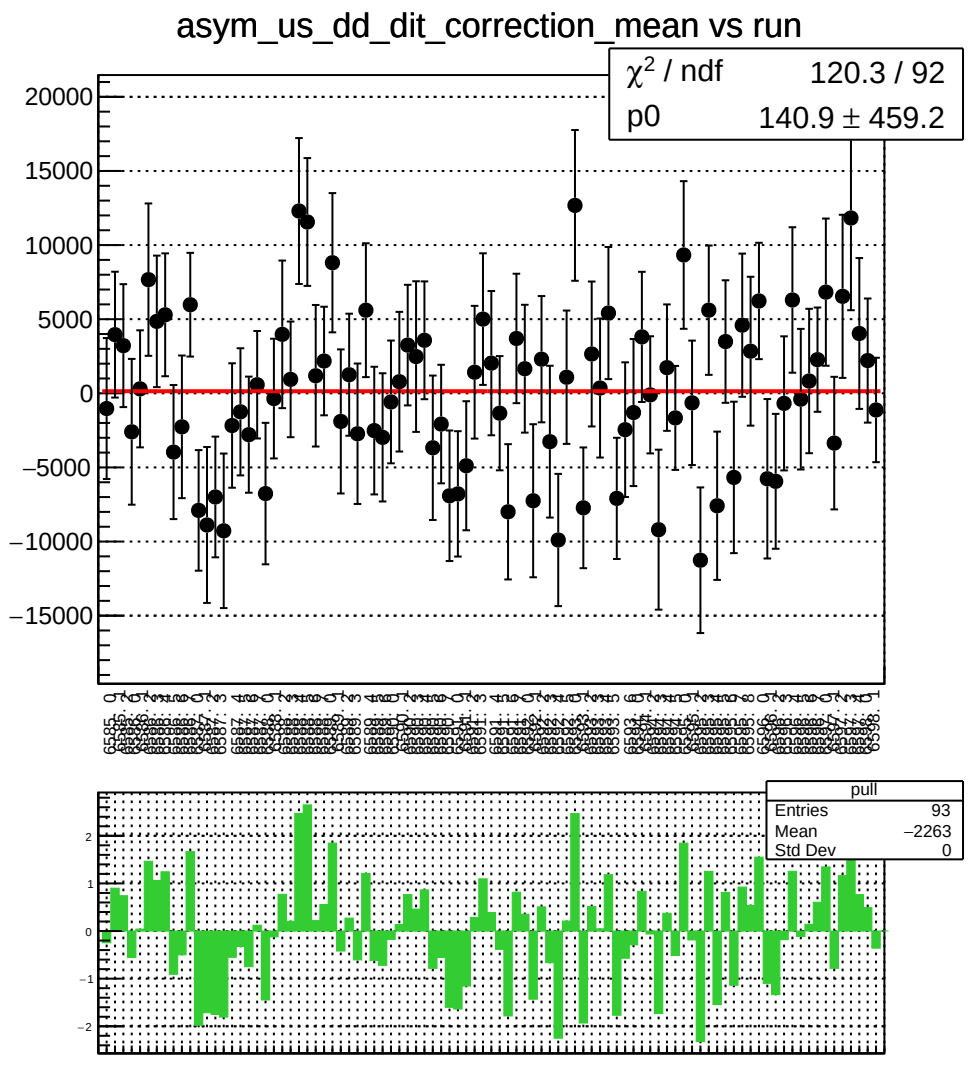

pull1D
Entries 93
Mean 0.002236
Std Dev 1.137
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

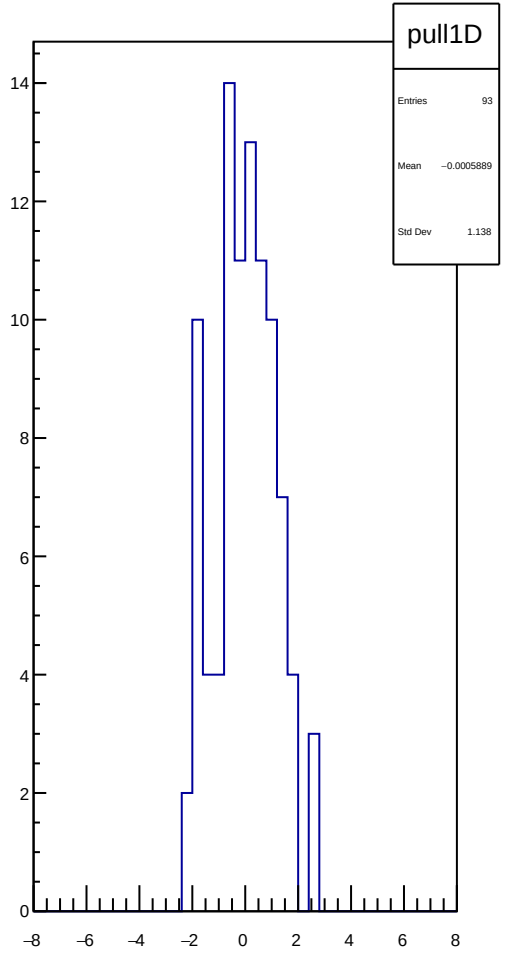

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.764e+04 / 92
p0 424.9 ± 0.3209
600
550
500
450
400
350

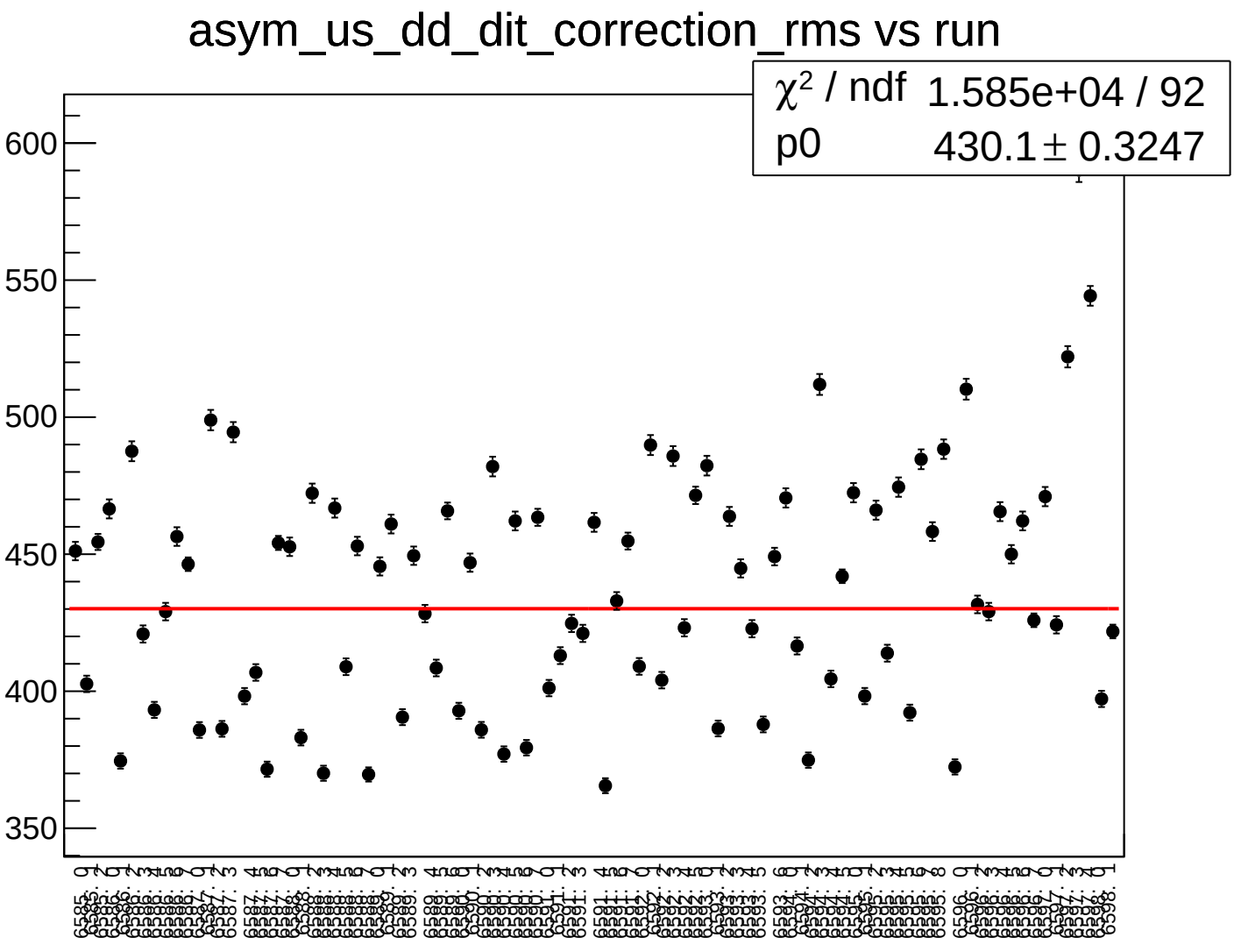

dit_asym_us_dd_mean vs run
χ² / ndf 68.07 / 92
p0 1264 ± 833.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 28.5
Std Dev 36.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

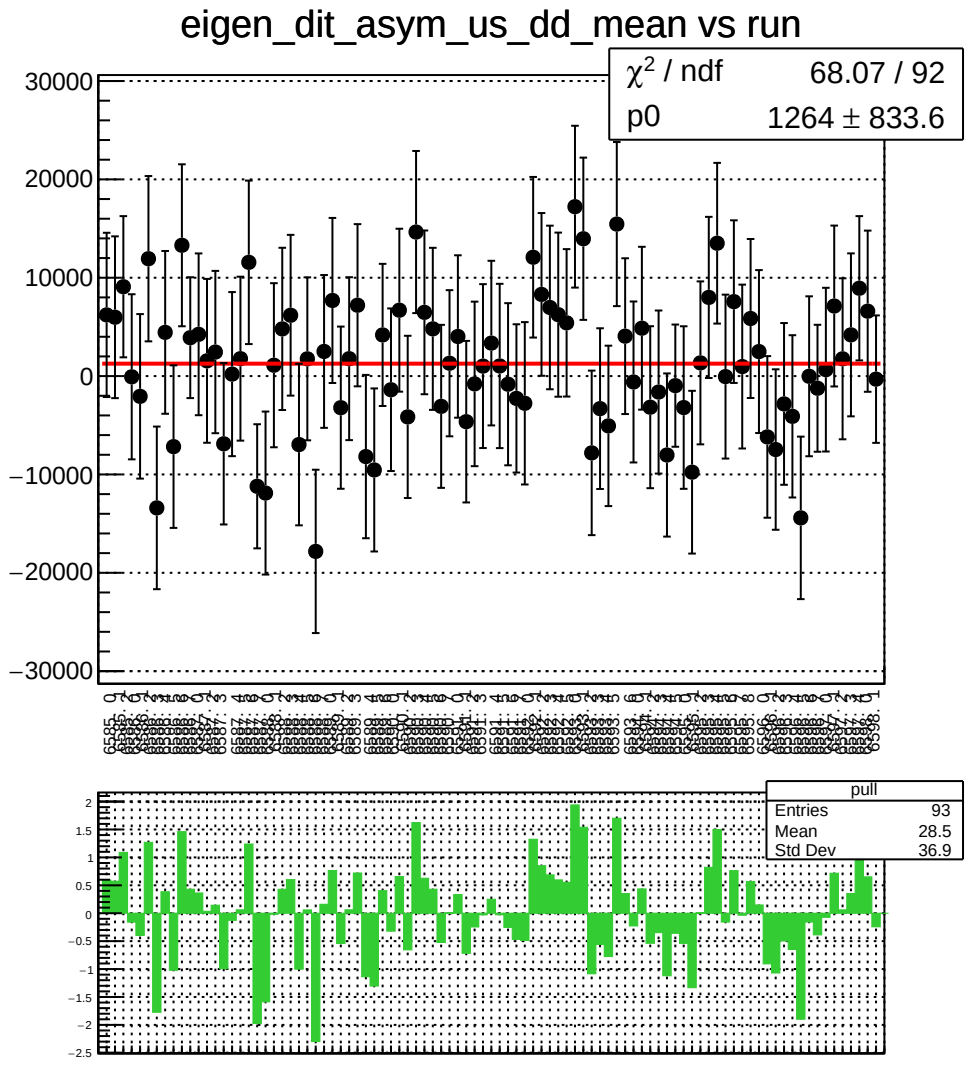

pull1D
Entries 93
Mean 0.003811
Std Dev 0.8555
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

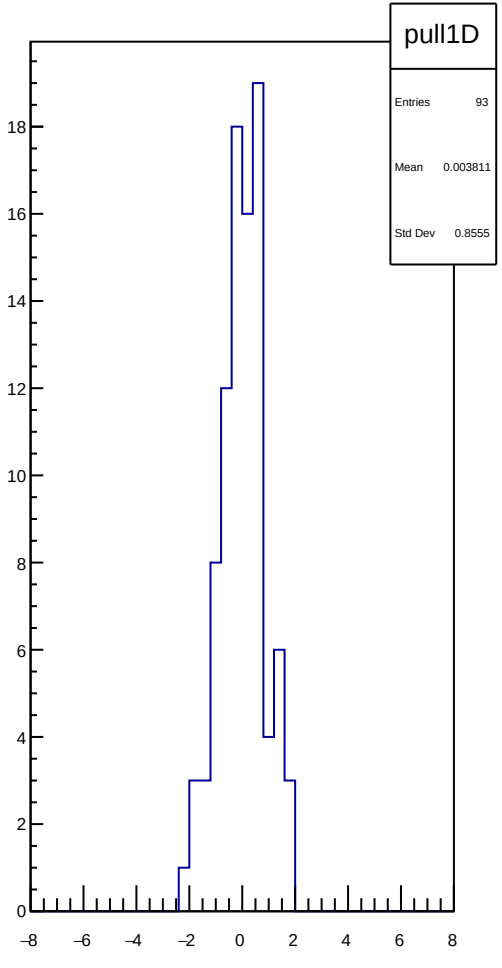

dit_asym_us_dd_rms vs run
χ² / ndf 88.01 / 92
p0 784.3 ± 0.5894
805
800
795
790
785
780
775
770
765

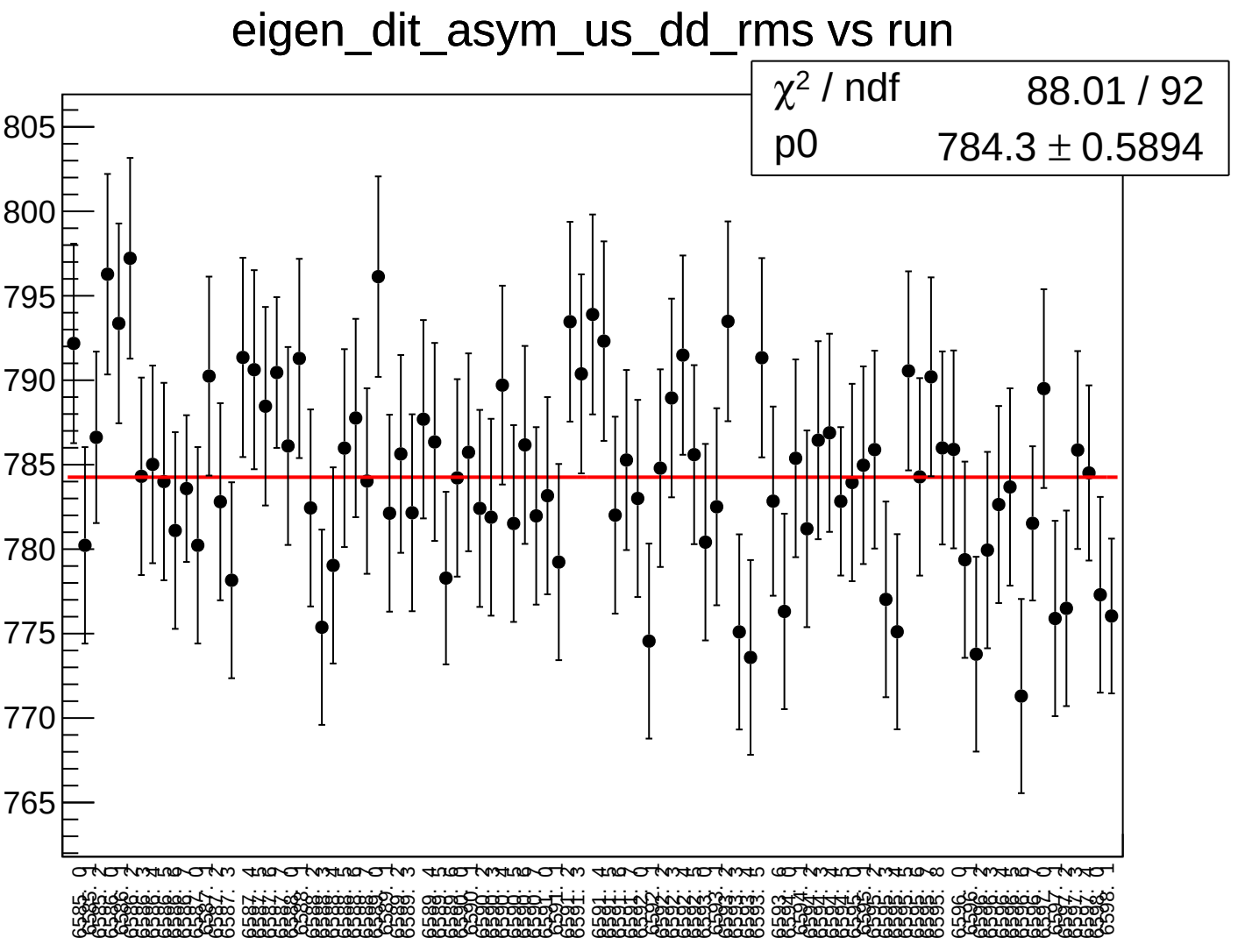

asym_us_dd_dit_correction_mean vs run
χ² / ndf 120.3 / 92
p0 140.9 ± 459.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −2263
Std Dev 0
2
1
0
−1
−2

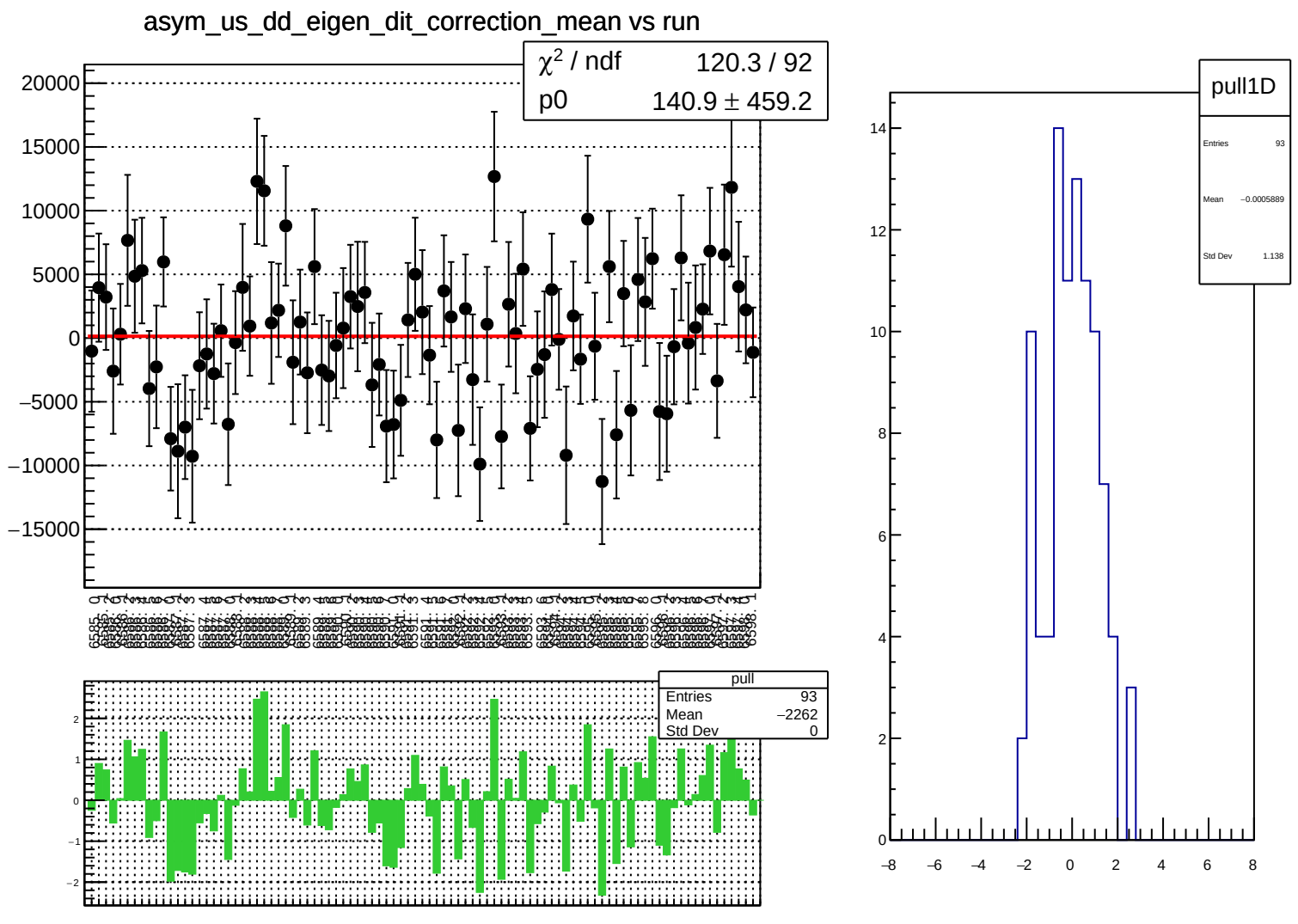

pull1D
Entries 93
Mean −0.0005889
Std Dev 1.138
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

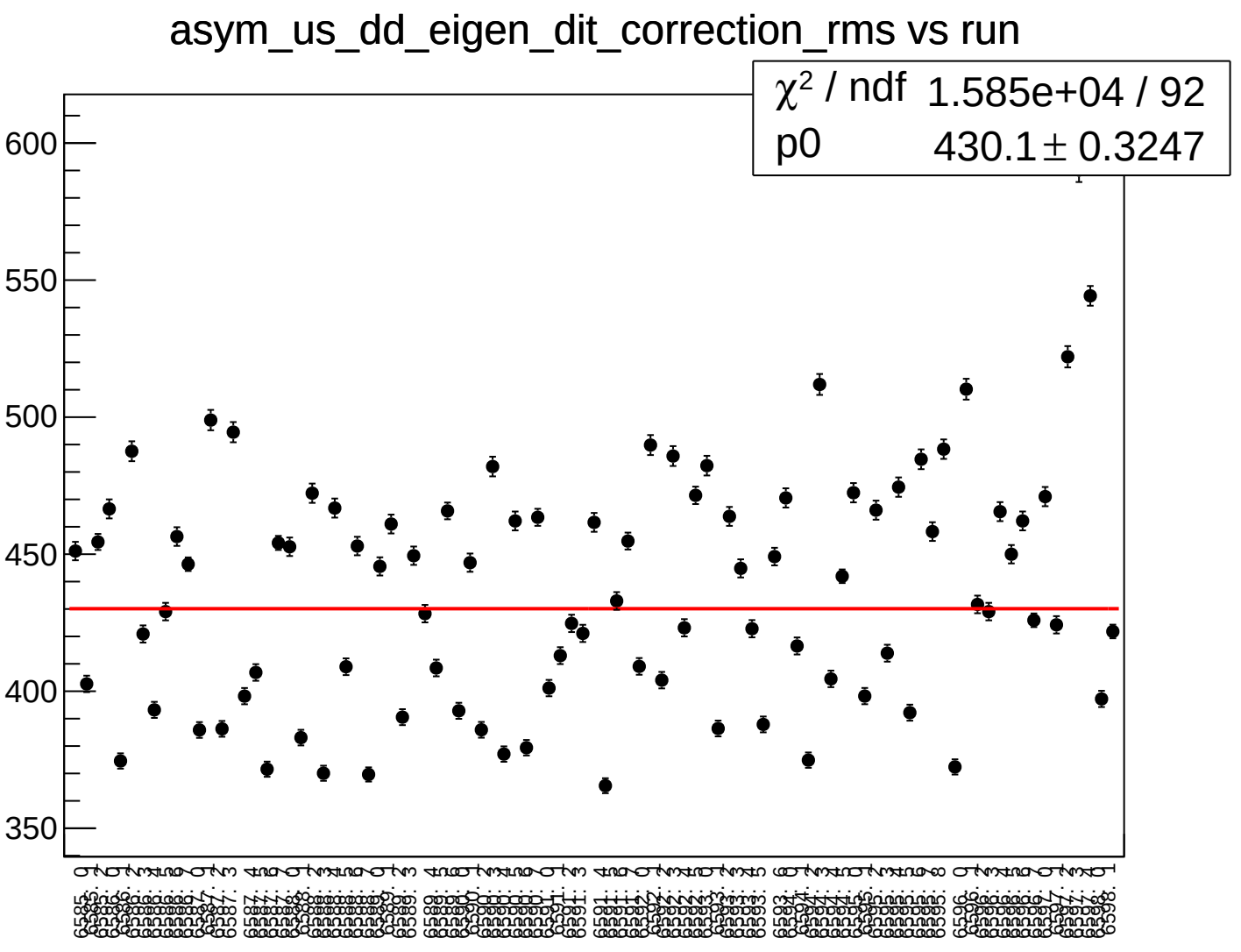

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.585e+04 / 92
p0 430.1 ± 0.3247
600
550
500
450
400
350

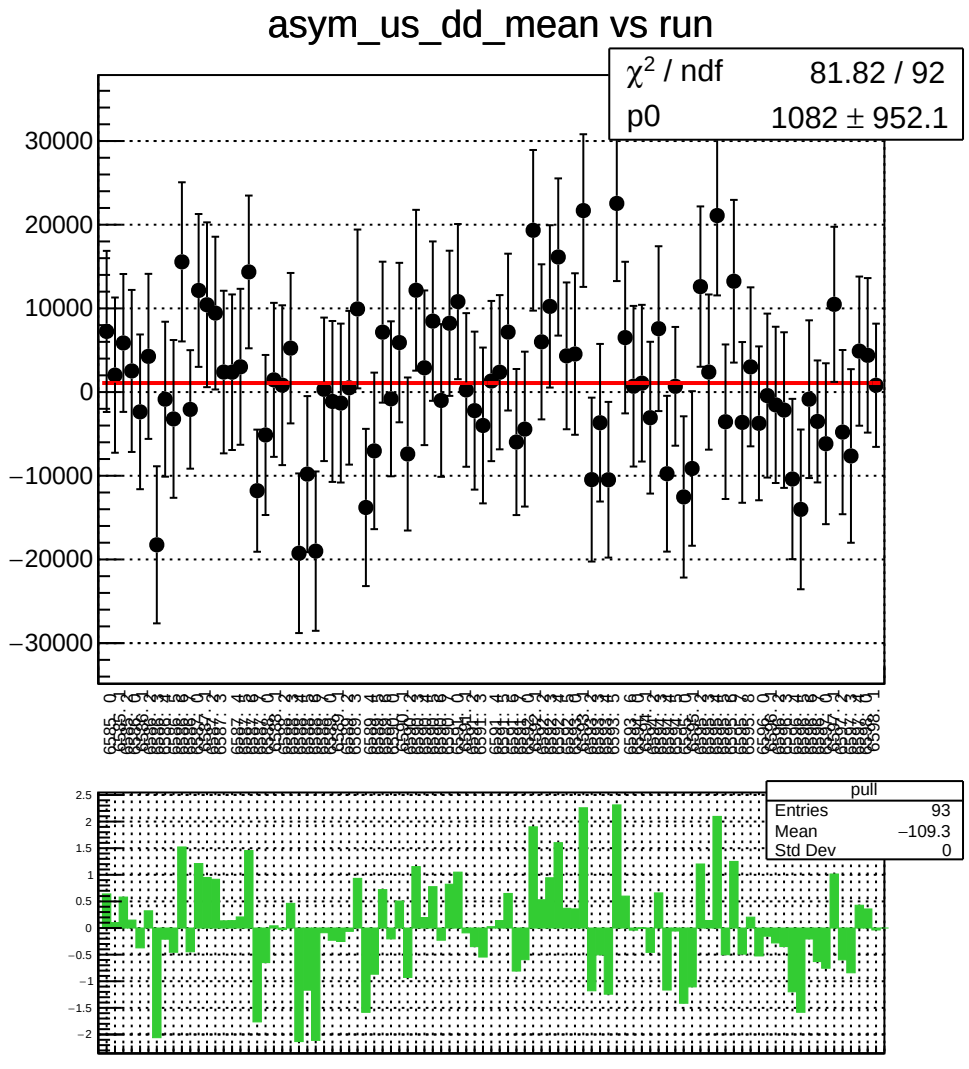

eigen_dit_asym_us_dd_mean vs run
χ^2 / ndf 68.07 / 92
p0 1264 ± 833.6
pull
Entries 93
Mean 28.5
Std Dev 36.9

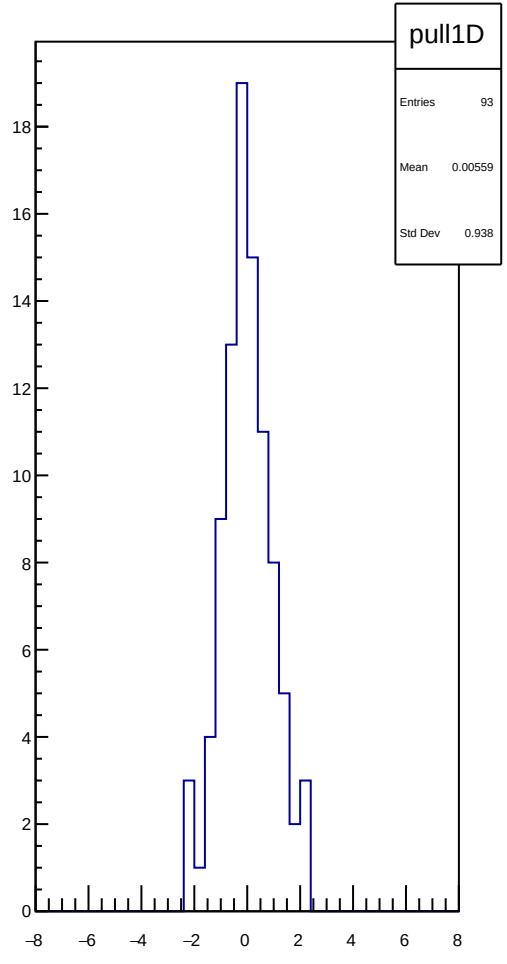

pull1D
Entries 93
Mean 0.003811
Std Dev 0.8555

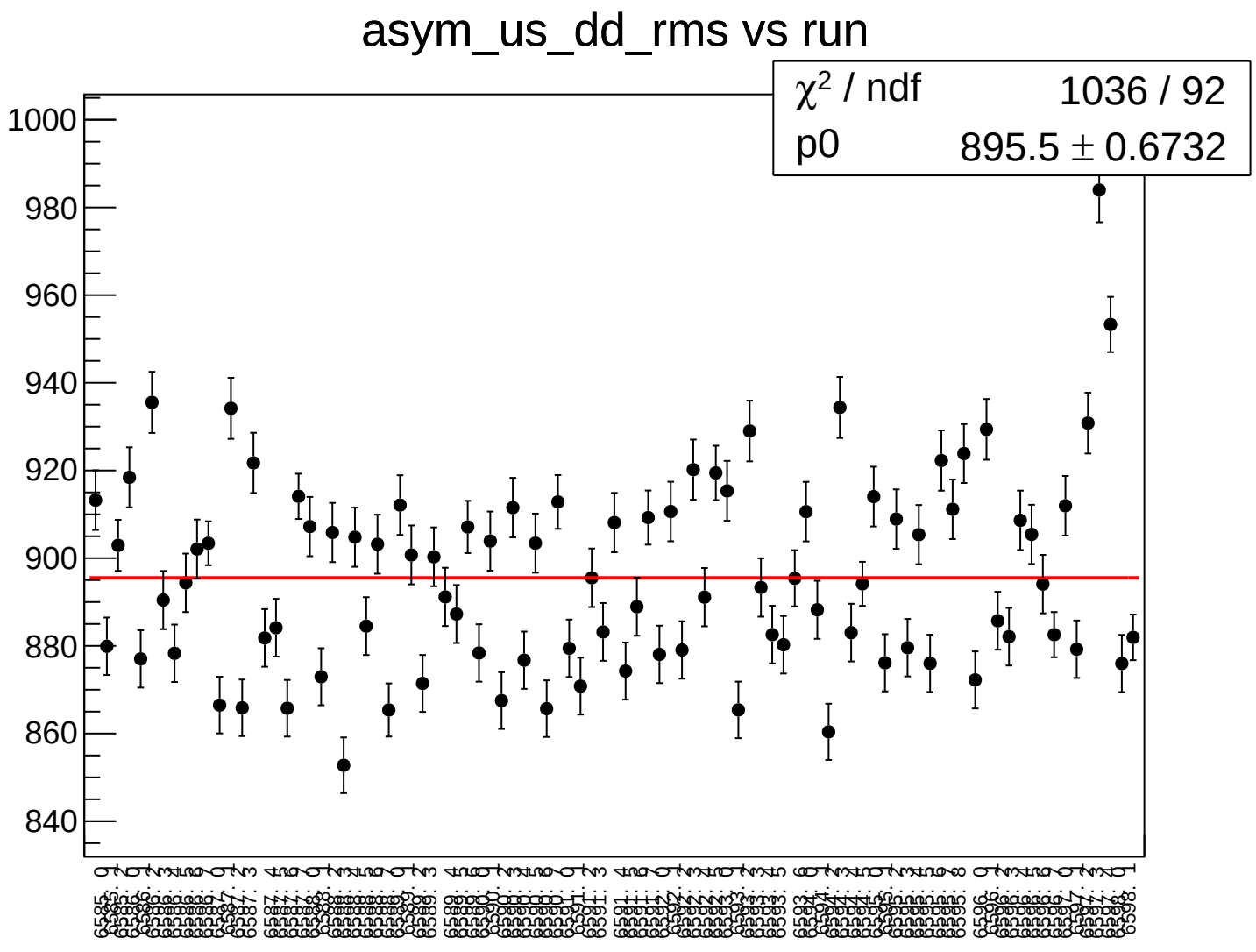

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 88.01 / 92
p0 784.3 ± 0.5894
805
800
795
790
785
780
775
770
765

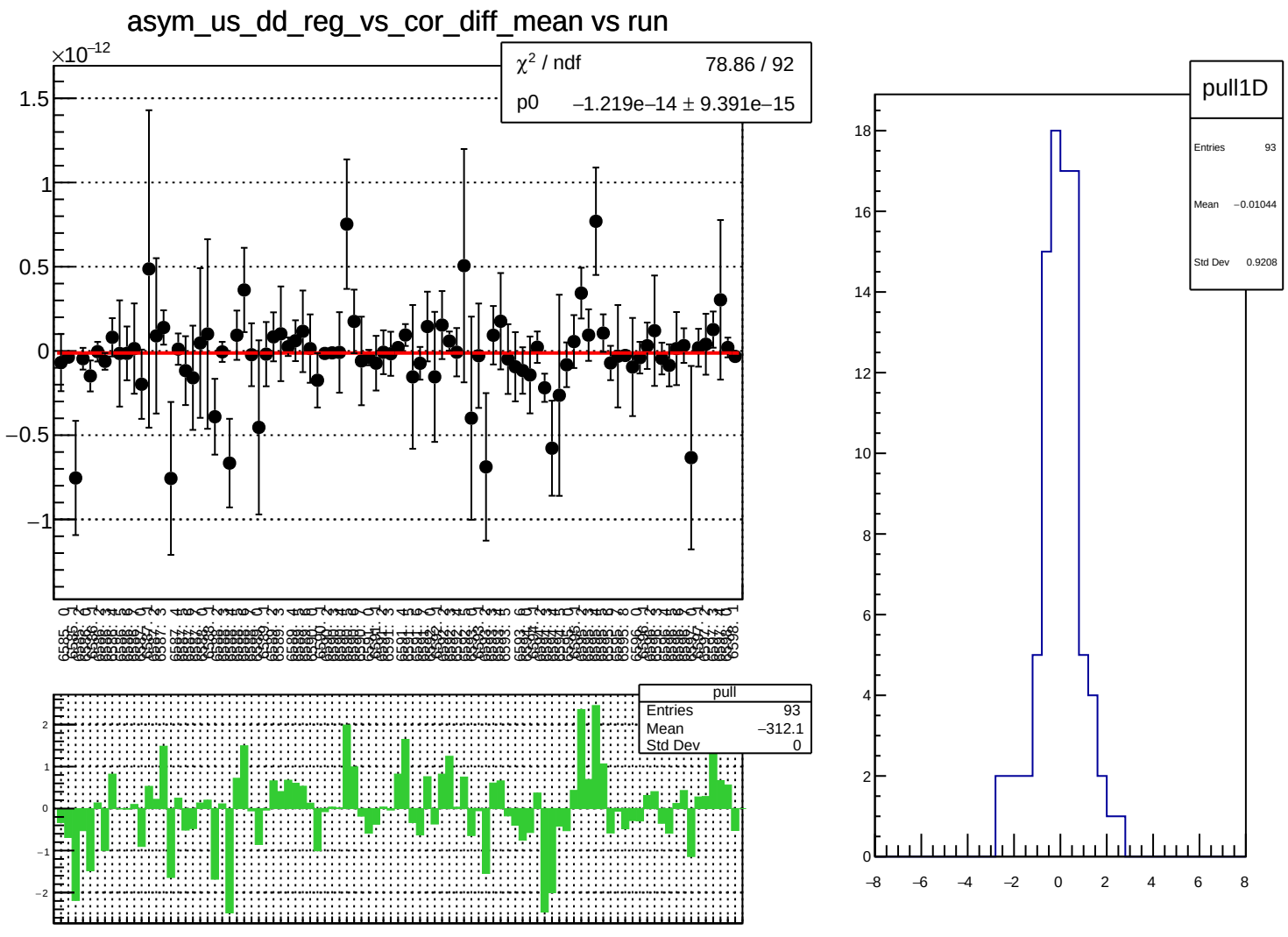

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 120.3 / 92
p0 140.9 ± 459.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −2262
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0005889
Std Dev 1.138
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

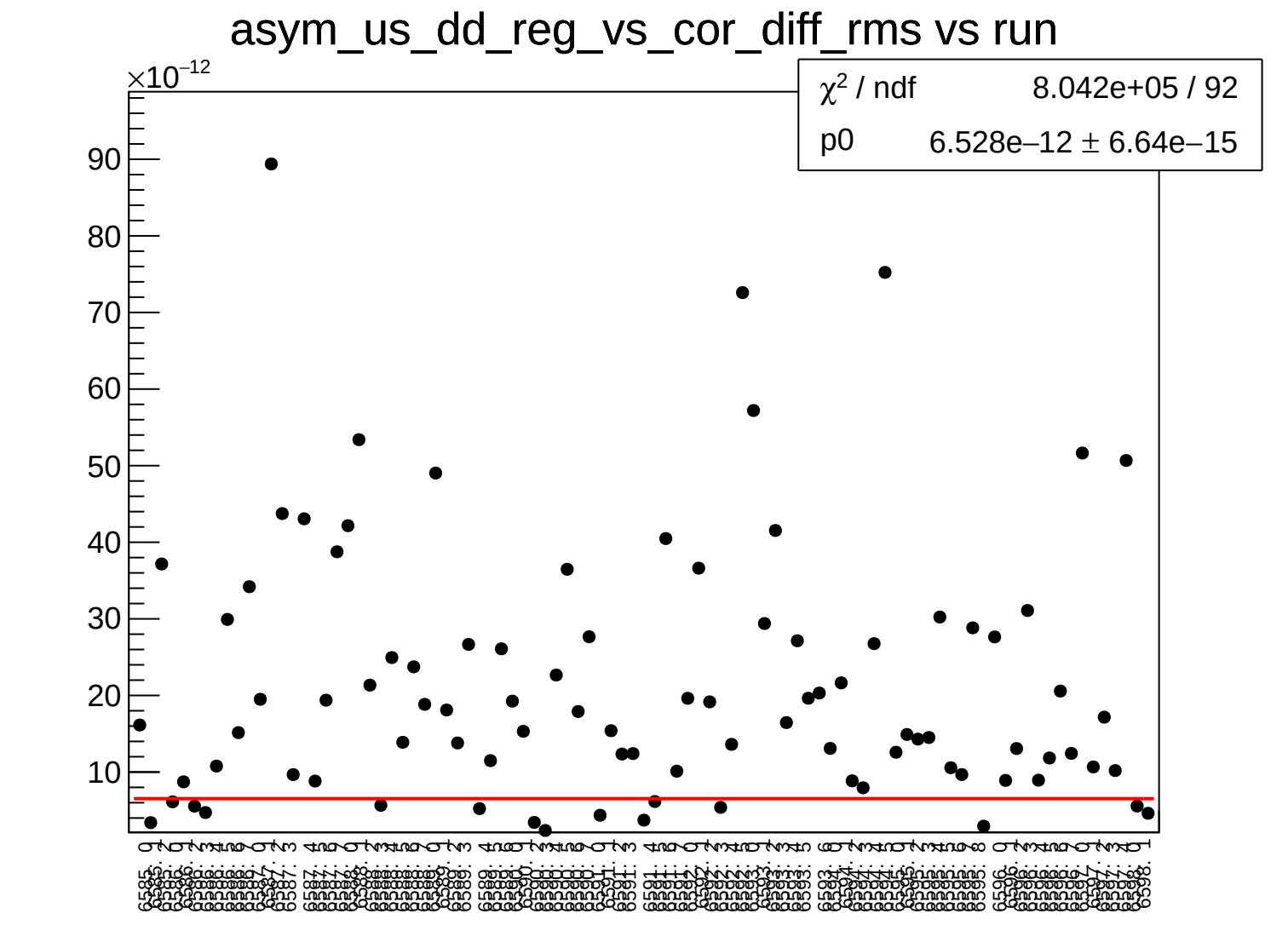

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.585e+04 / 92
p0 430.1 ± 0.3247
600
550
500
450
400
350

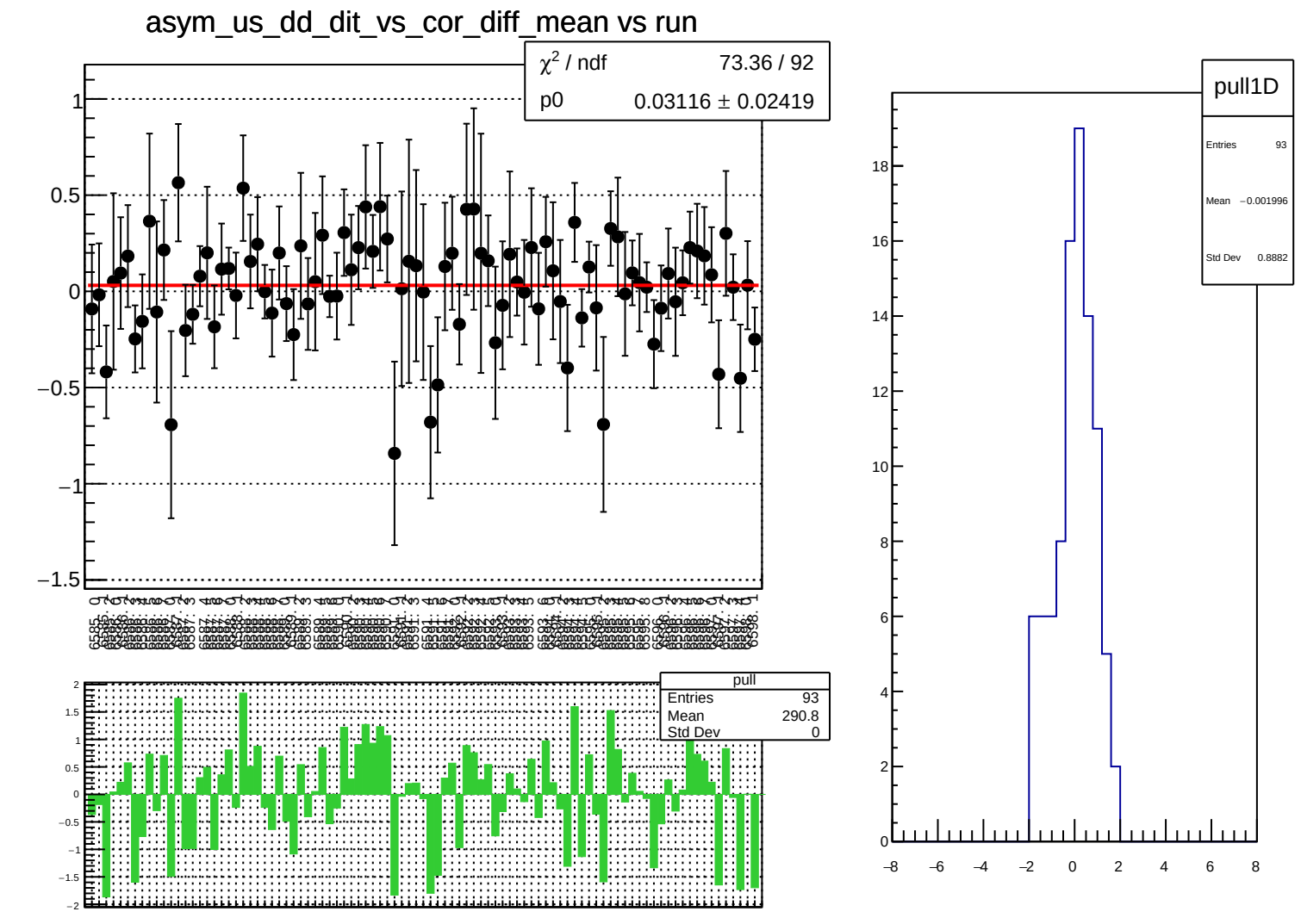

asym_us_dd_mean vs run
χ² / ndf 81.82 / 92
p0 1082 ± 952.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −109.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

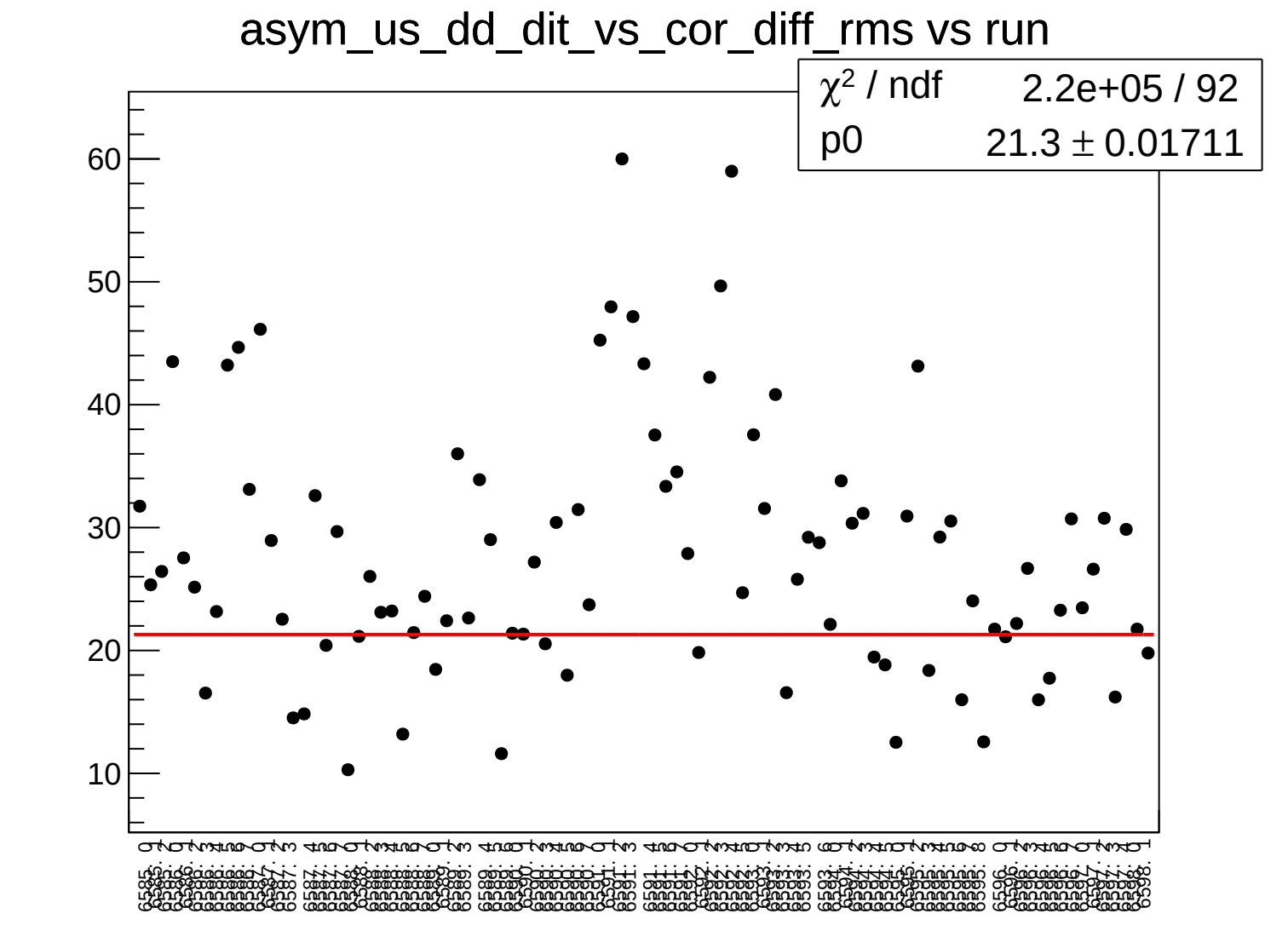

pull1D
Entries 93
Mean 0.00559
Std Dev 0.938
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

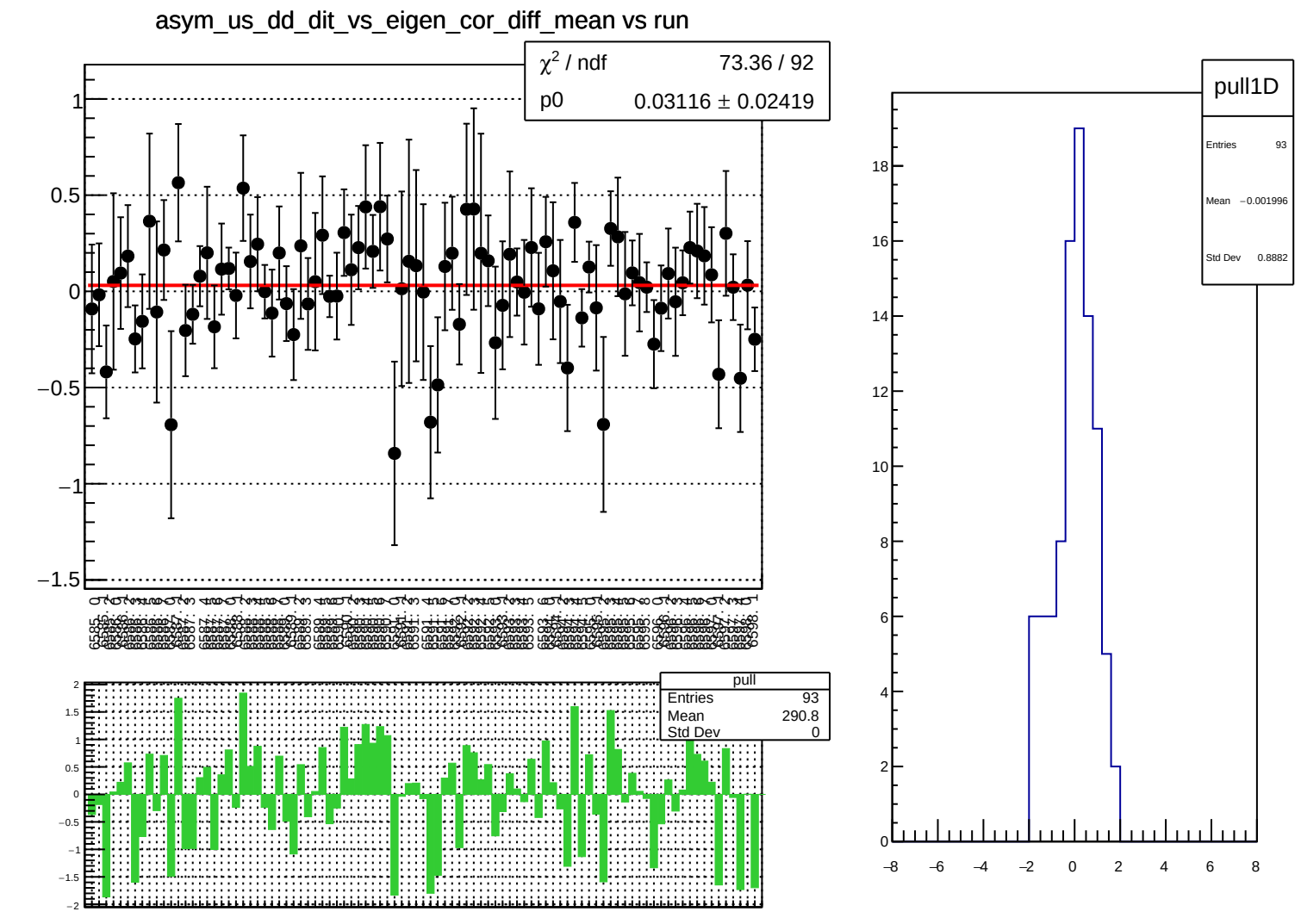

asym_us_dd_rms vs run
χ² / ndf 1036 / 92
p0 895.5 ± 0.6732
1000
980
960
940
920
900
880
860
840

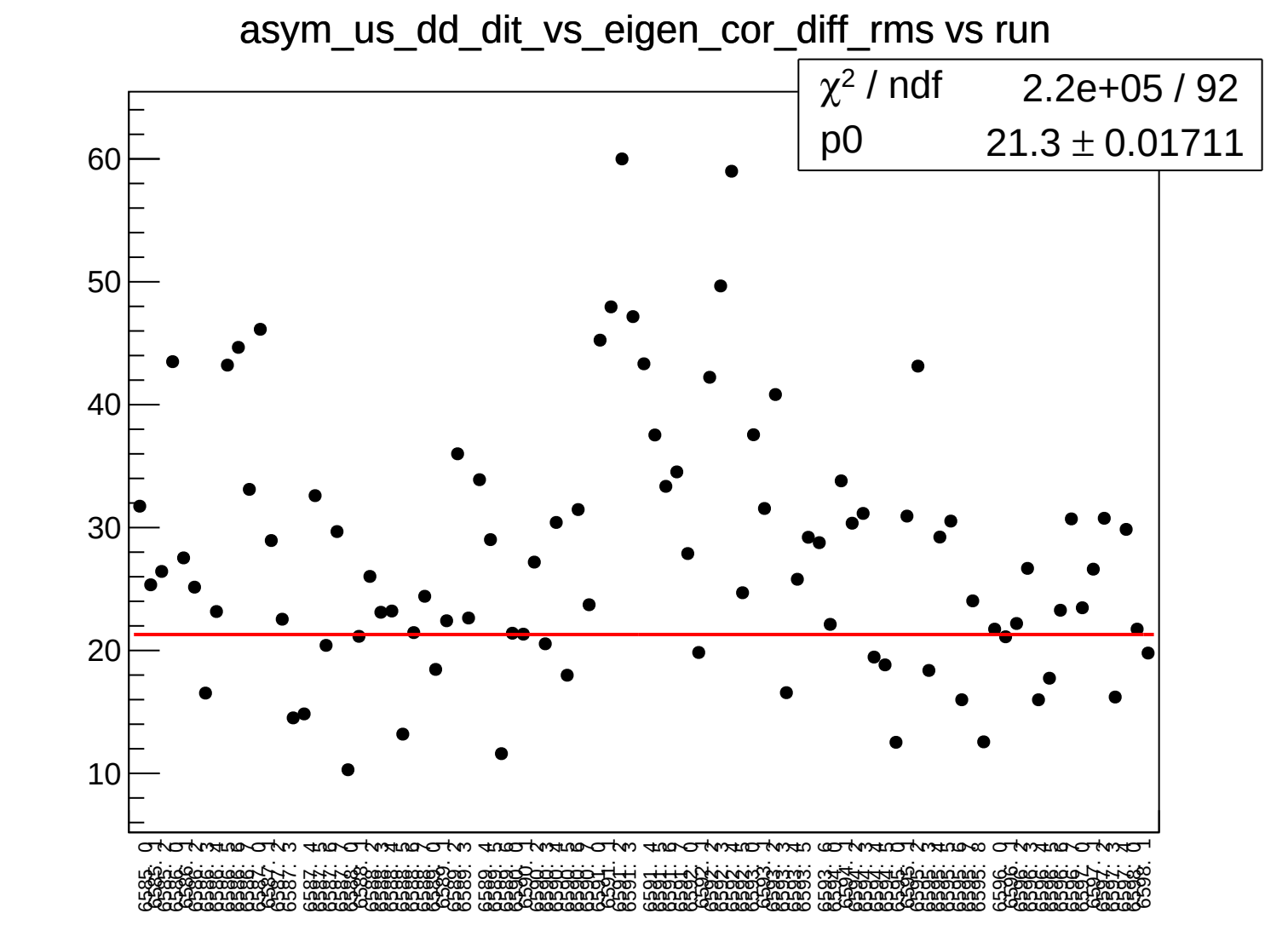

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.86 / 92
p0 −1.219e−14 ± 9.391e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 93
Mean −312.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01044
Std Dev 0.9208
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

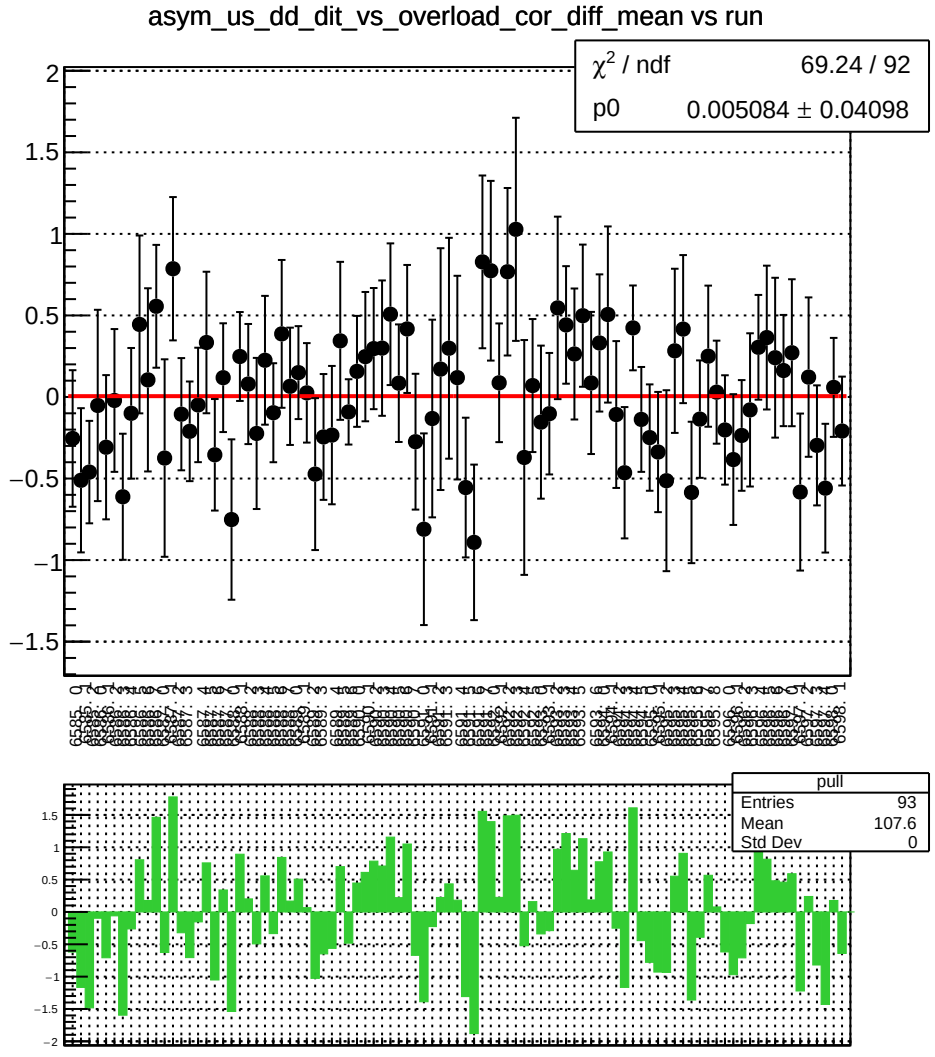

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.042e+05 / 92
p0 6.528e−12 ± 6.64e−15
90
80
70
60
50
40
30
20
10

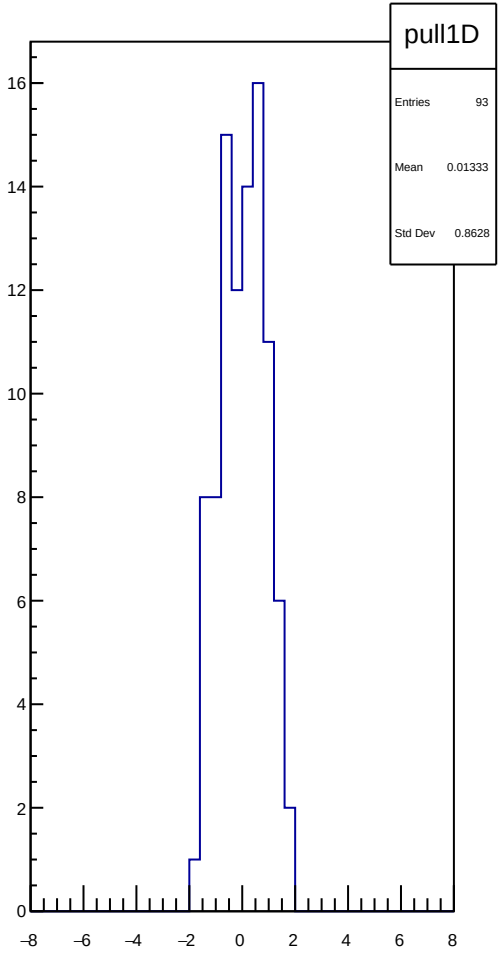

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.36 / 92
p0 0.03116 ± 0.02419
pull
Entries 93
Mean 290.8
Std Dev 0
pull1D
Entries 93
Mean −0.001996
Std Dev 0.8882

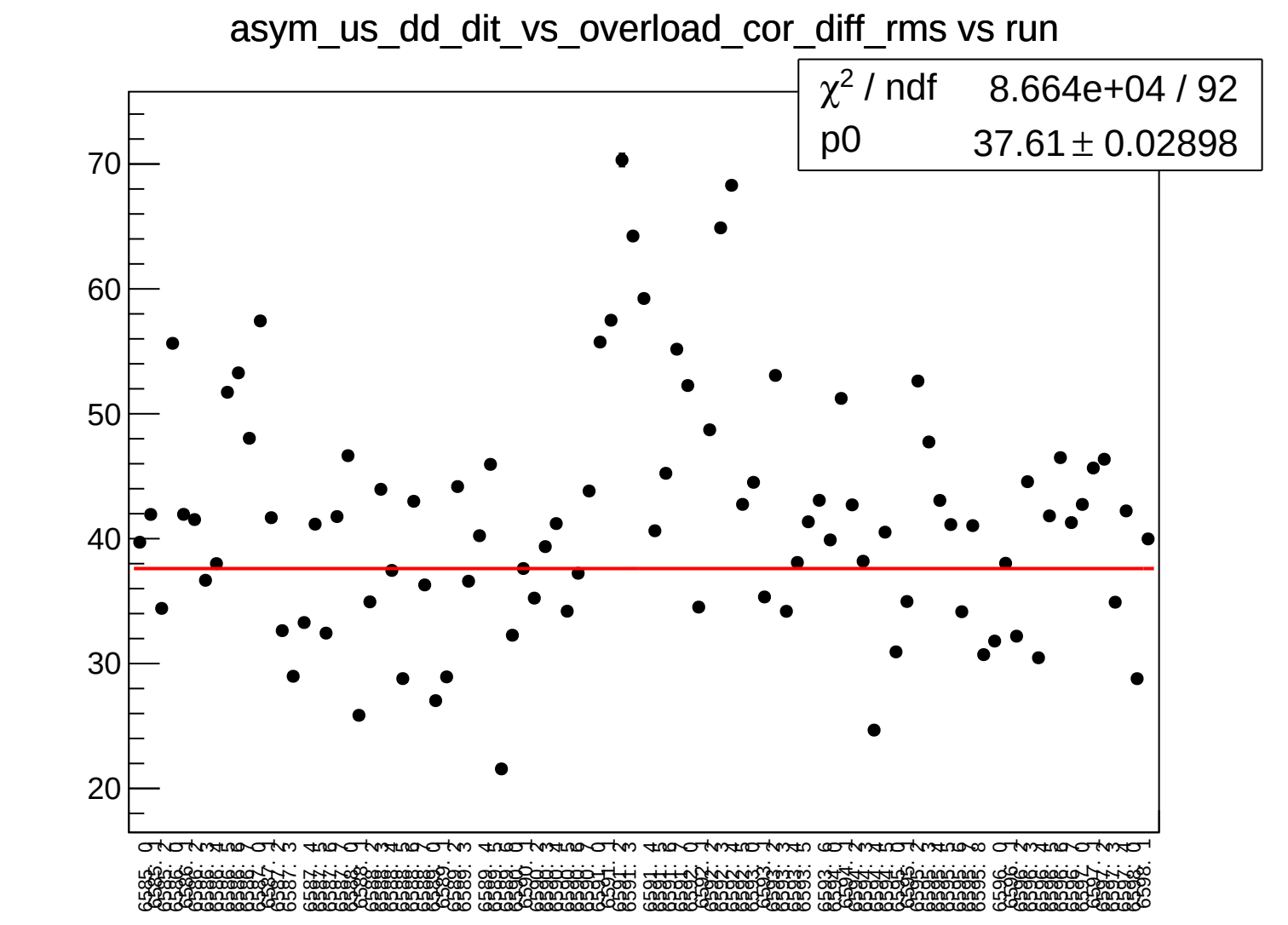

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 92
p0 21.3 ± 0.01711
60
50
40
30
20
10

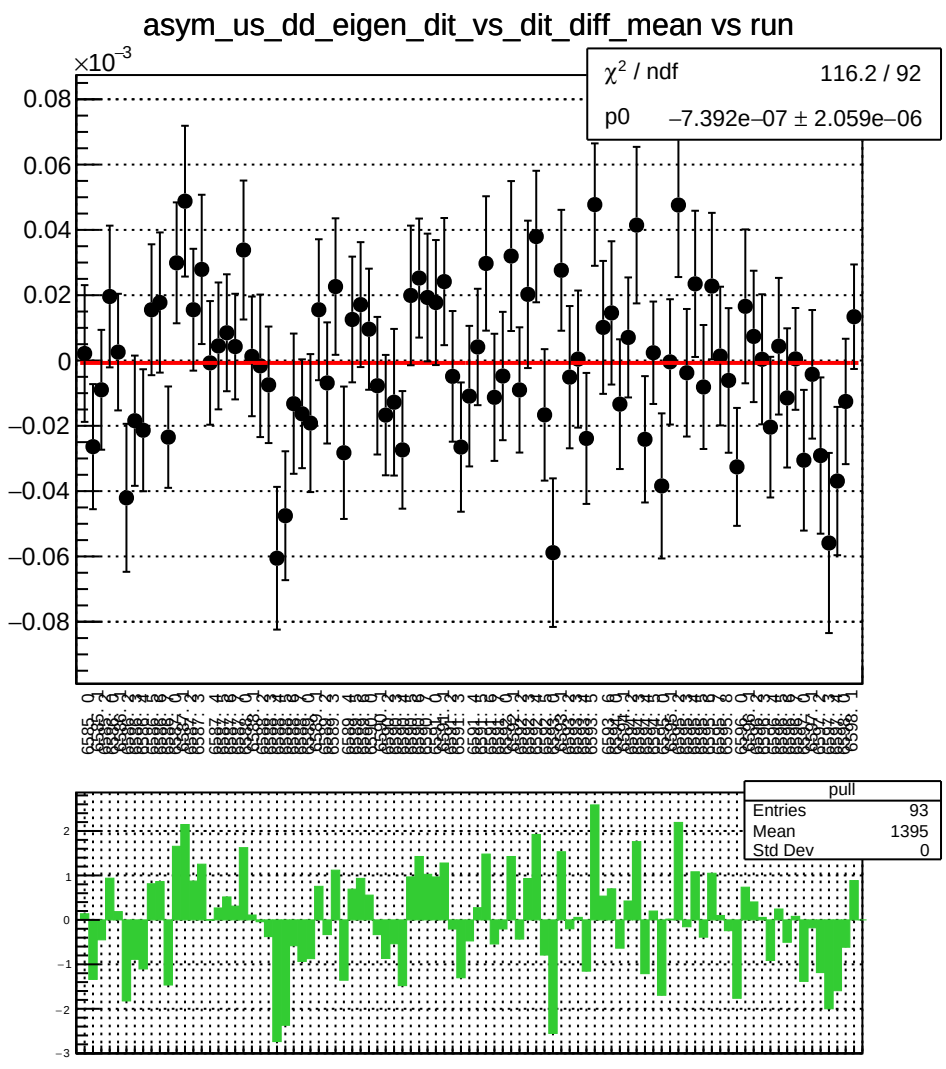

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.36 / 92
p0 0.03116 ± 0.02419
pull
Entries 93
Mean 290.8
Std Dev 0
pull1D
Entries 93
Mean −0.001996
Std Dev 0.8882

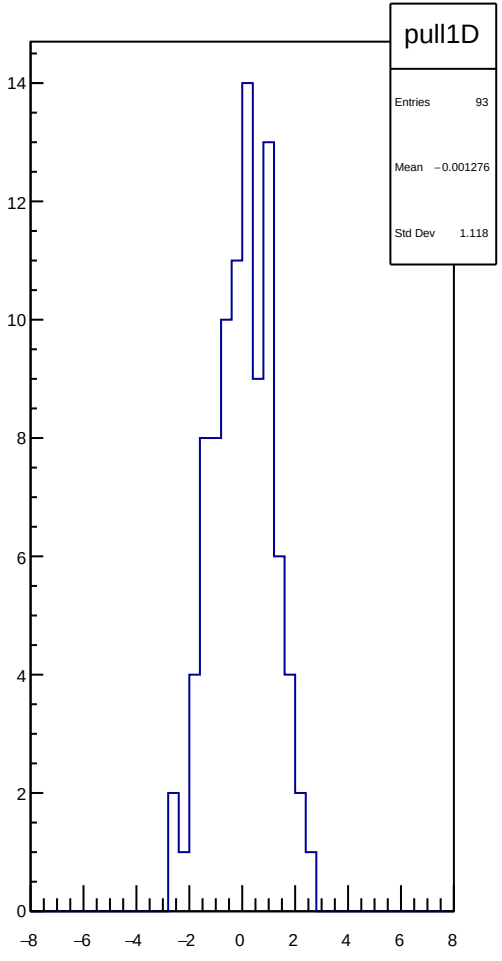

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 92
p0 21.3 ± 0.01711
60
50
40
30
20
10

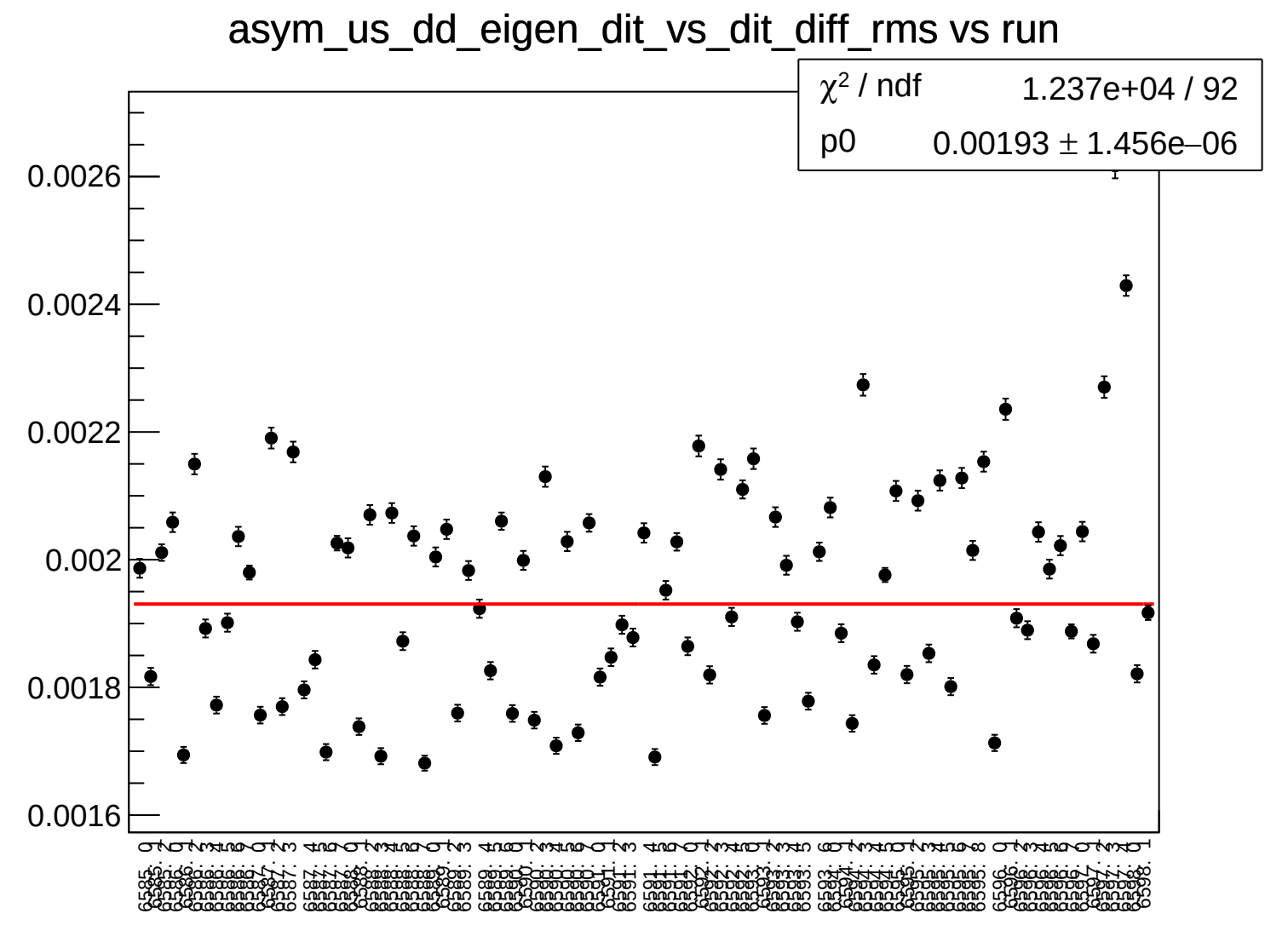

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 69.24 / 92
p0 0.005084 ± 0.04098
pull
Entries 93
Mean 107.6
Std Dev 0

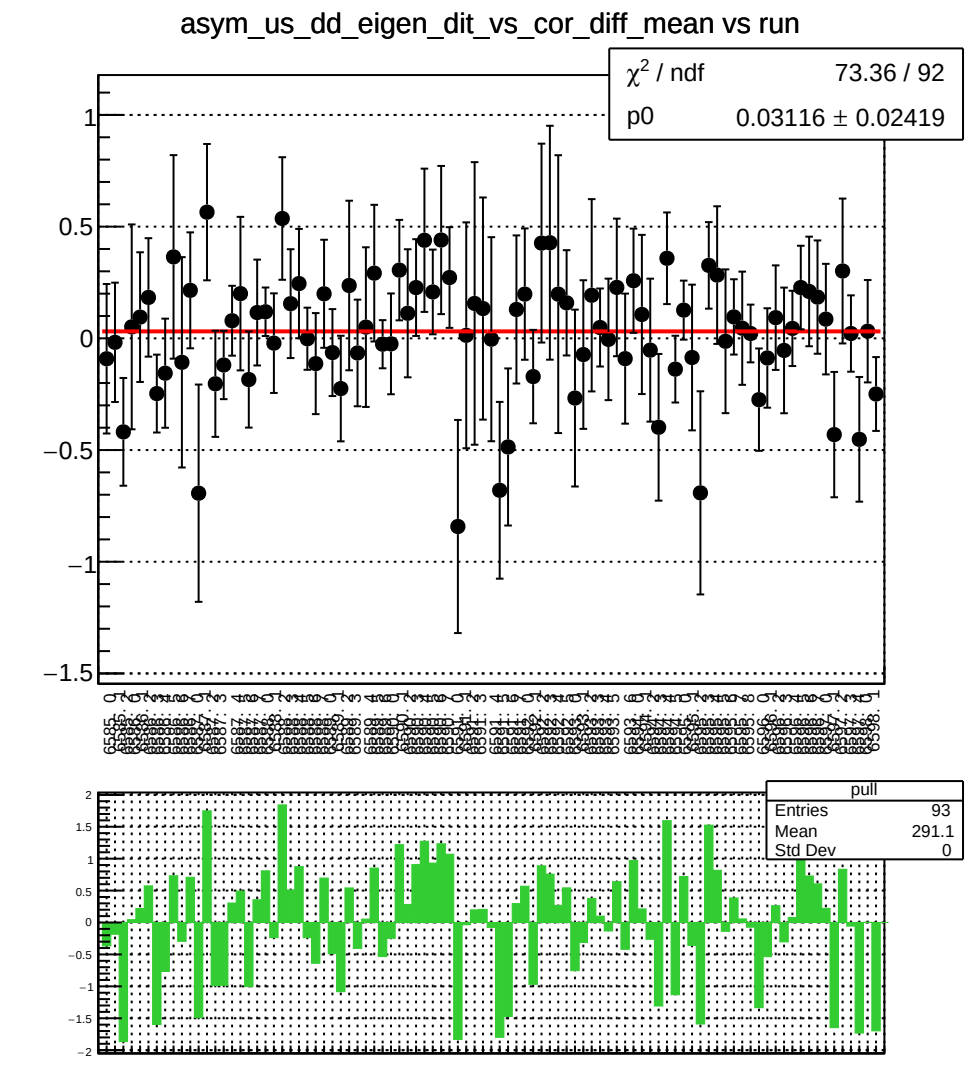

pull1D
Entries 93
Mean 0.01333
Std Dev 0.8628

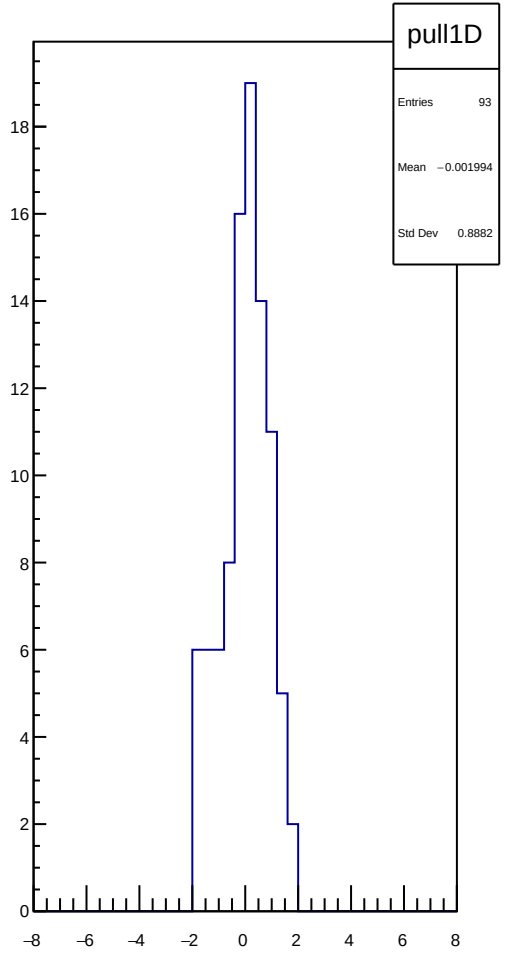

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 8.664e+04 / 92
p0 37.61 ± 0.02898
70
60
50
40
30
20

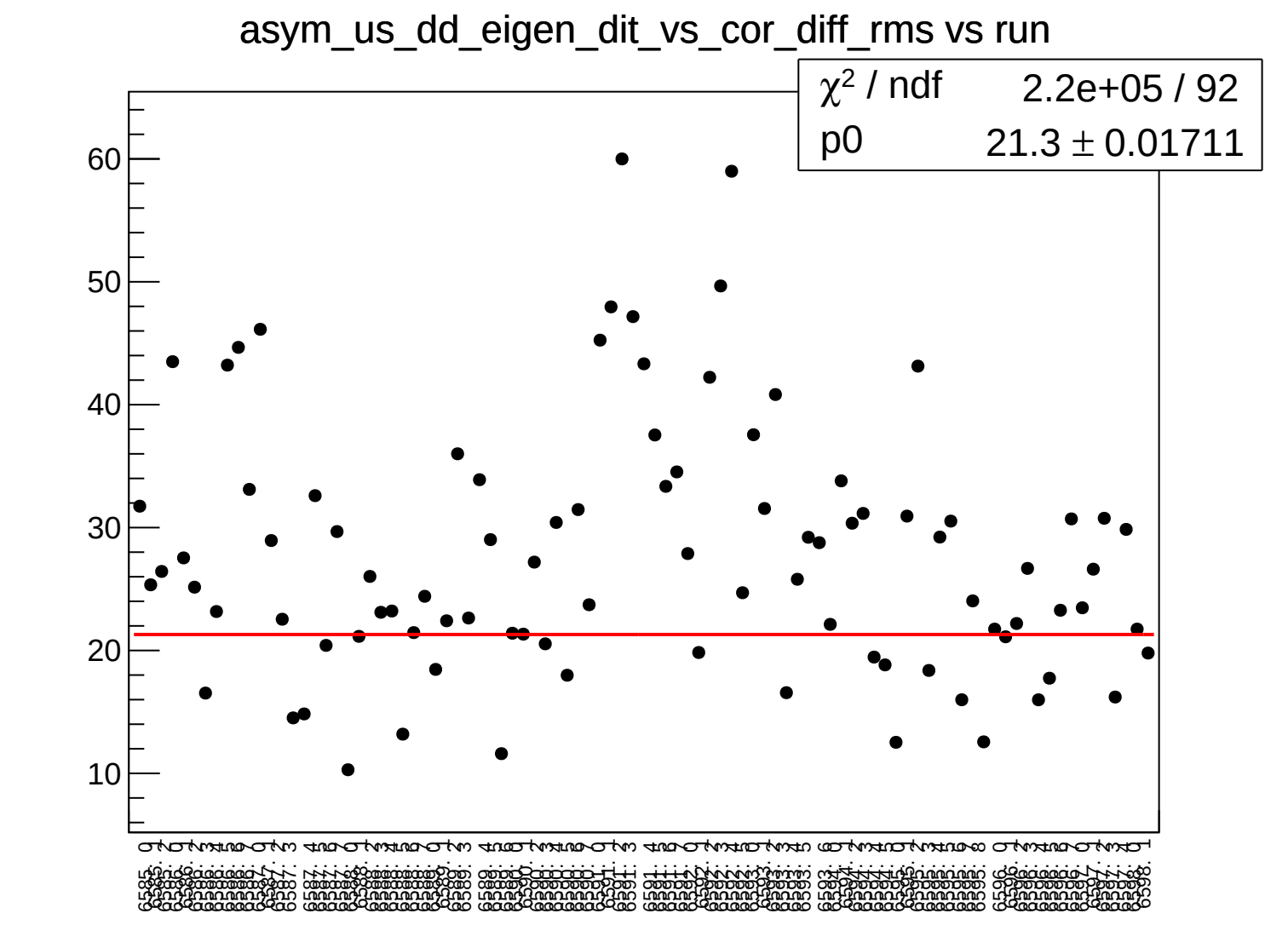

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.2 / 92
p0 −7.392e−07 ± 2.059e−06
pull
Entries 93
Mean 1395
Std Dev 0

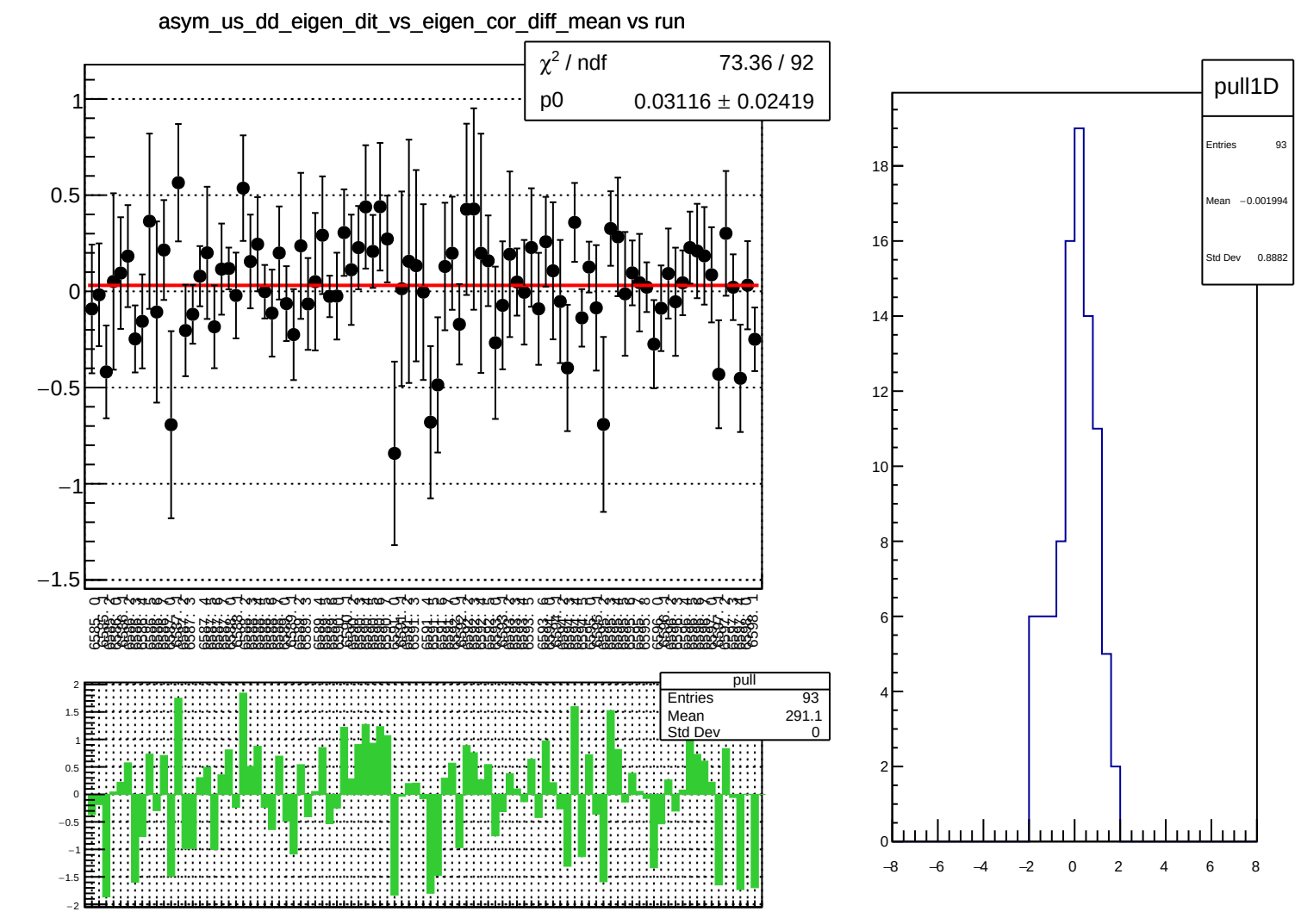

pull1D
Entries 93
Mean −0.001276
Std Dev 1.118

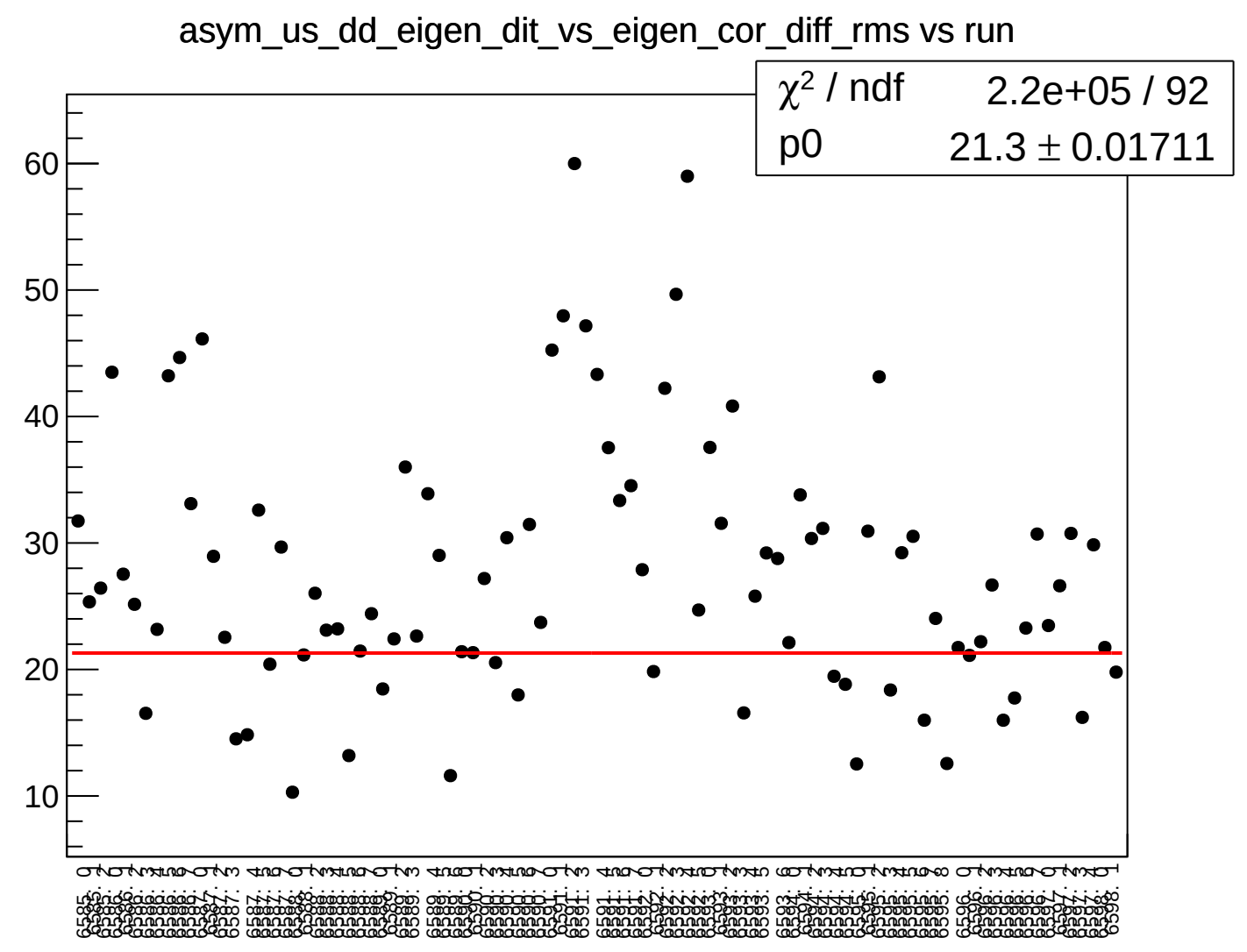

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.237e+04 / 92
p0 0.00193 ± 1.456e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

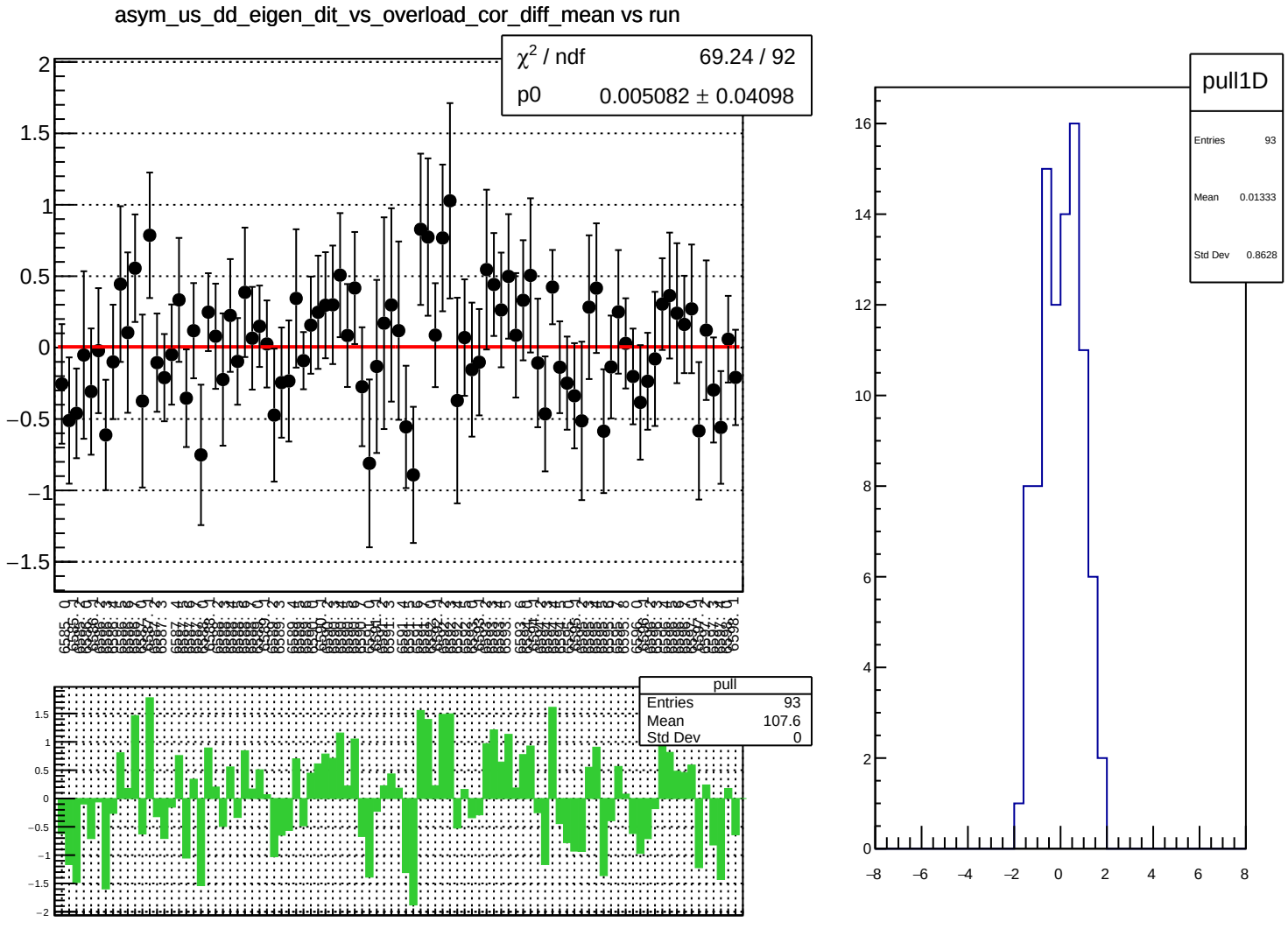

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.36 / 92
p0 0.03116 ± 0.02419
pull
Entries 93
Mean 291.1
Std Dev 0

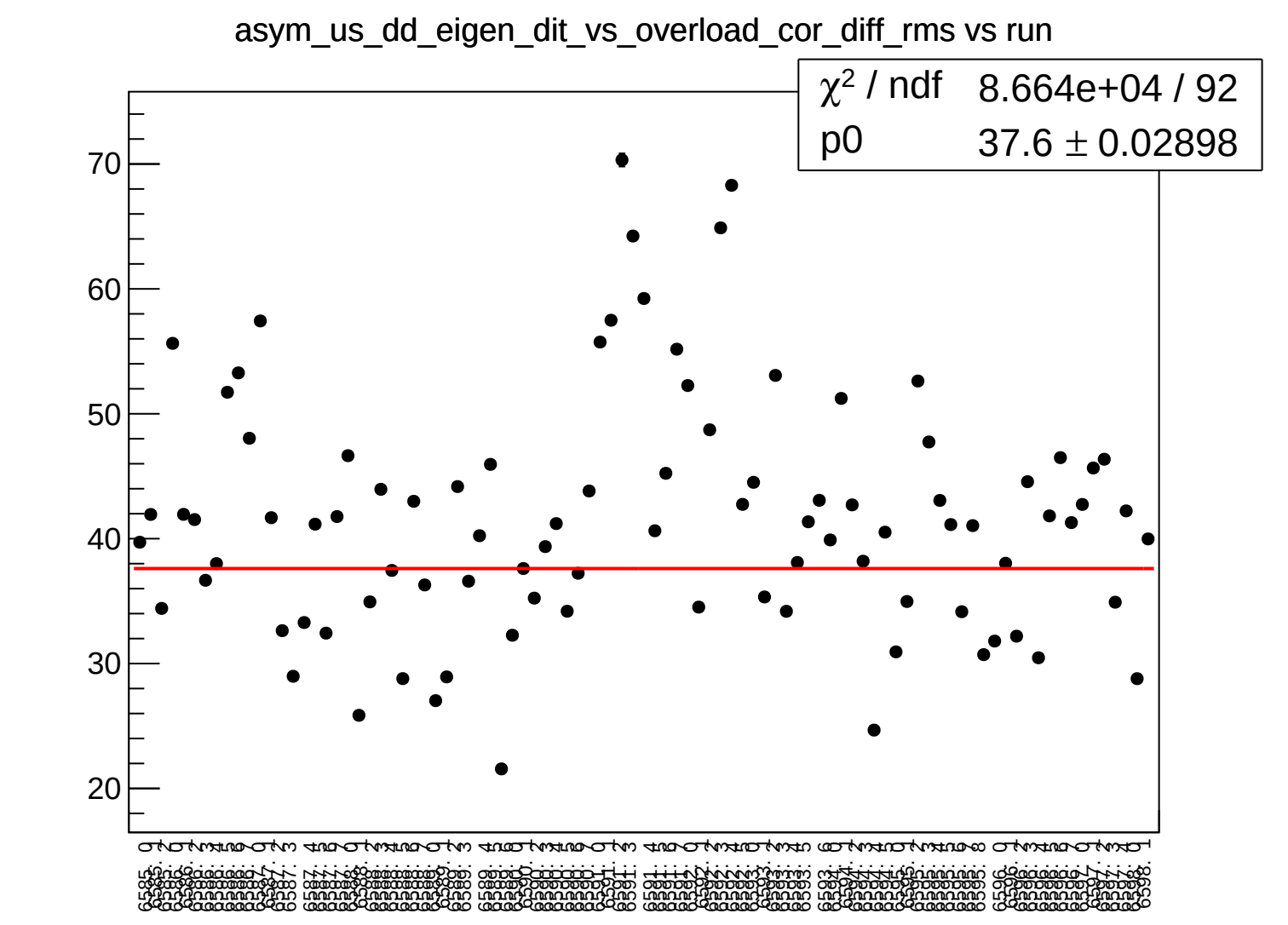

pull1D
Entries 93
Mean −0.001994
Std Dev 0.8882

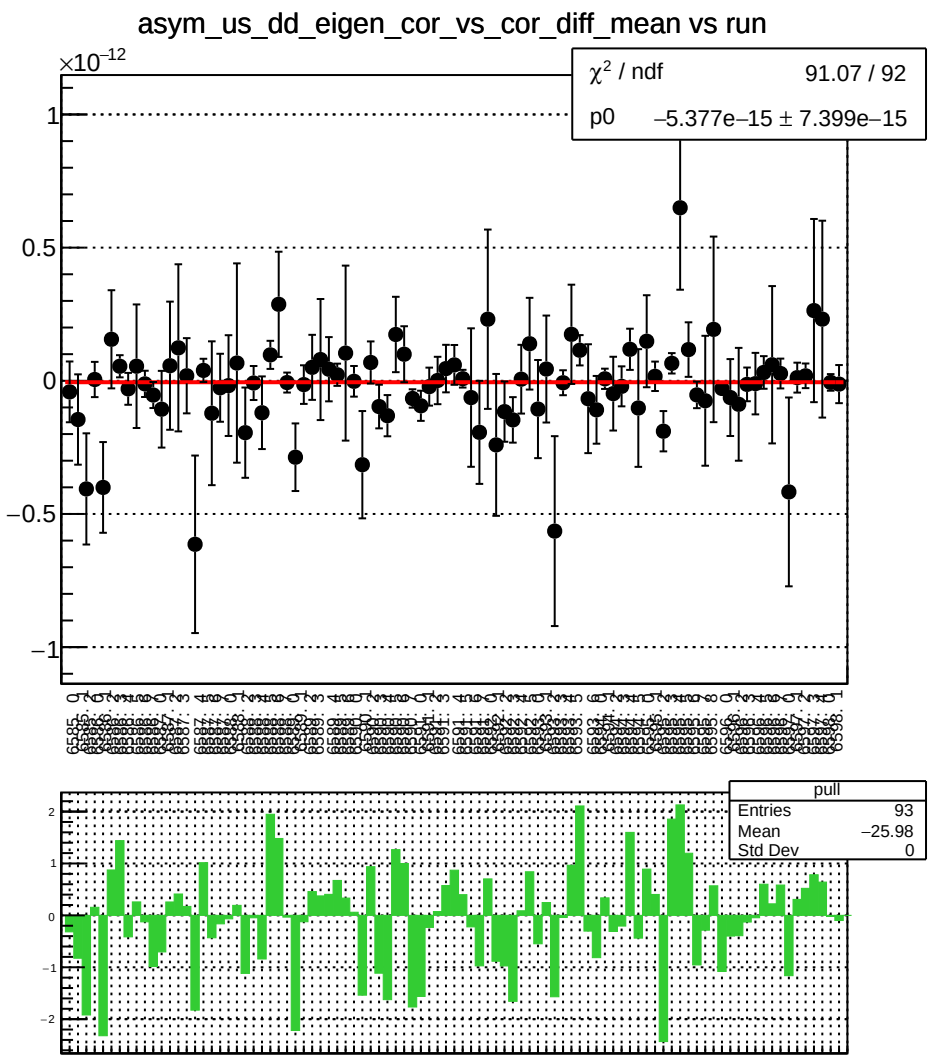

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 92
p0 21.3 ± 0.01711
60
50
40
30
20
10

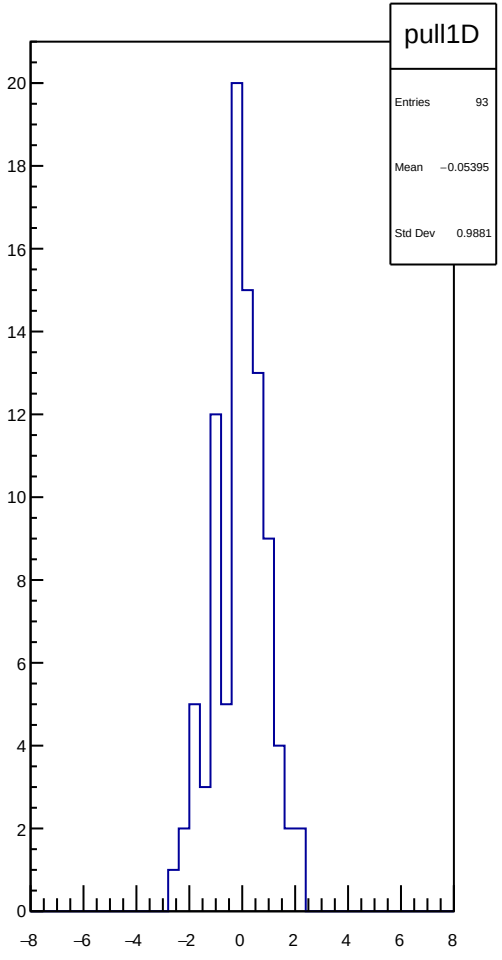

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.36 / 92
p0 0.03116 ± 0.02419
pull
Entries 93
Mean 291.1
Std Dev 0
pull1D
Entries 93
Mean −0.001994
Std Dev 0.8882

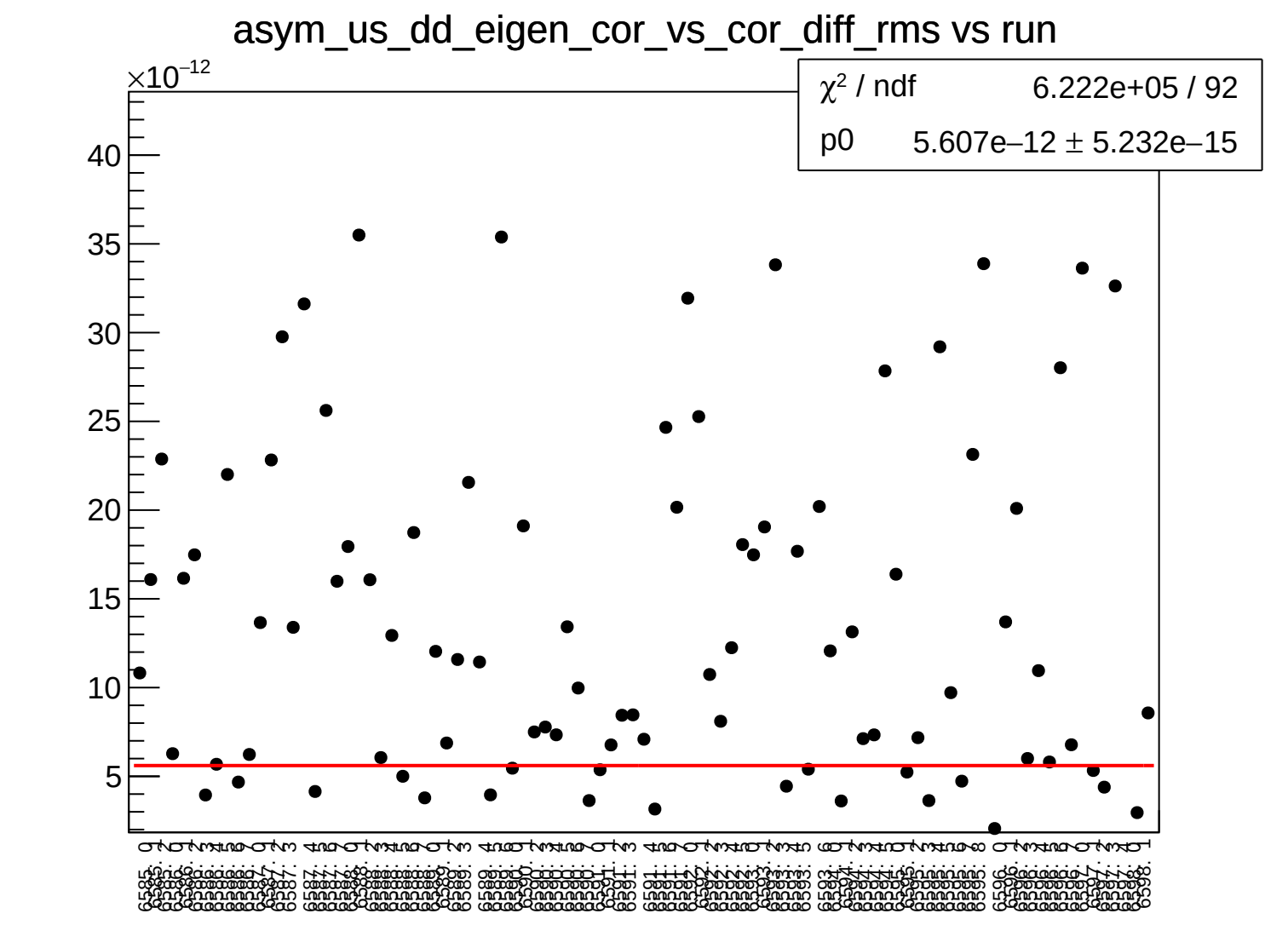

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.2e+05 / 92
p0 21.3 ± 0.01711
60
50
40
30
20
10

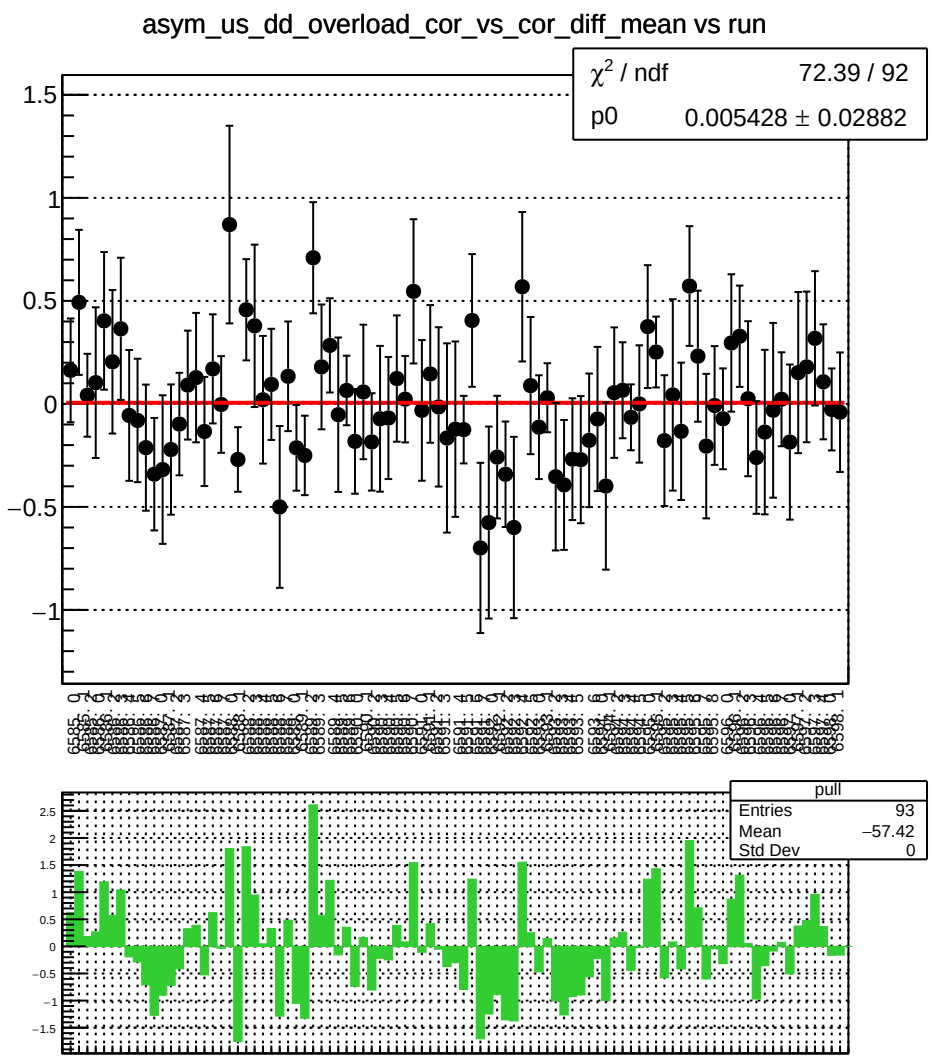

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 69.24 / 92
p0 0.005082 ± 0.04098
pull
Entries 93
Mean 107.6
Std Dev 0
pull1D
Entries 93
Mean 0.01333
Std Dev 0.8628

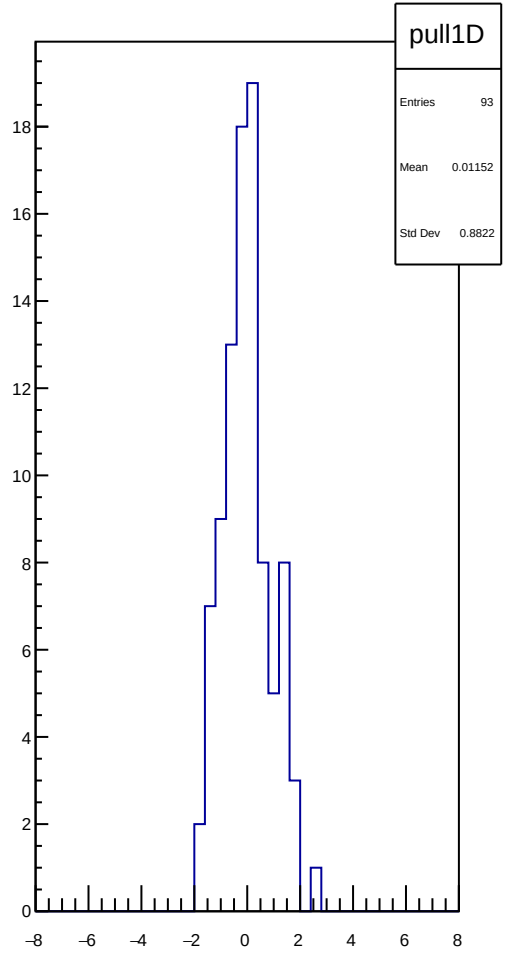

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.664e+04 / 92
p0 37.6 ± 0.02898
70
60
50
40
30
20

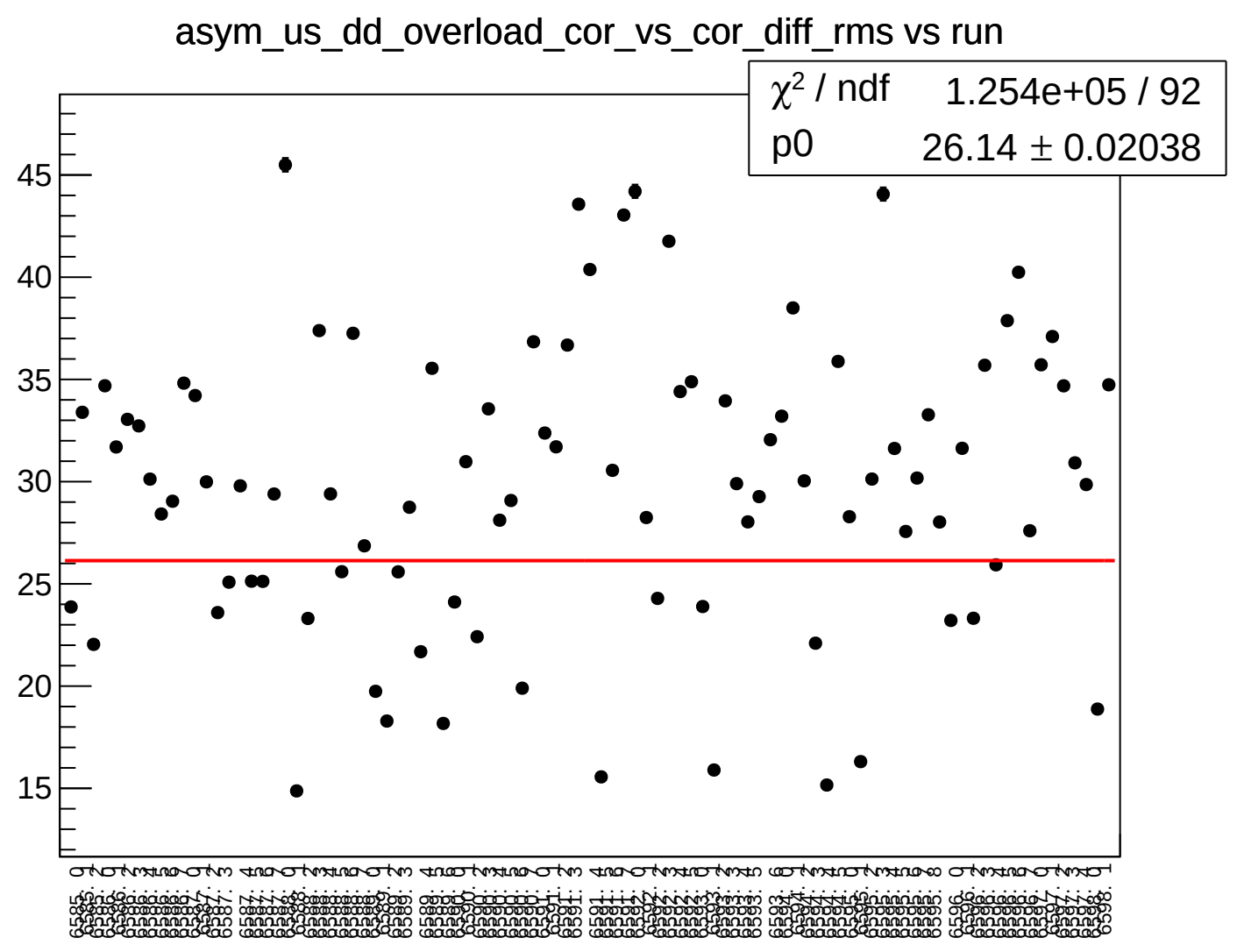

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.07 / 92
p0 −5.377e−15 ± 7.399e−15
pull
Entries 93
Mean −25.98
Std Dev 0

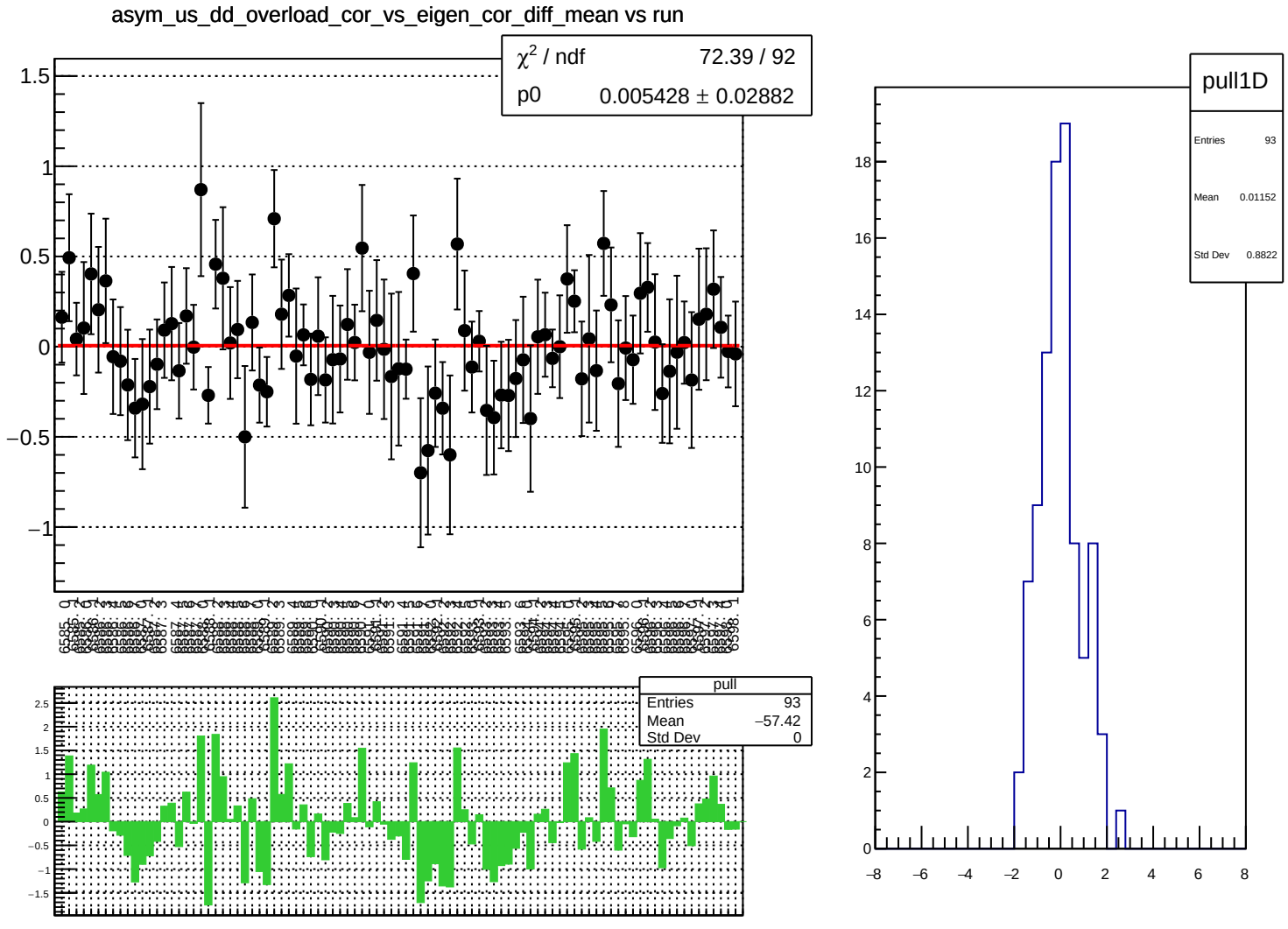

pull1D
Entries 93
Mean −0.05395
Std Dev 0.9881

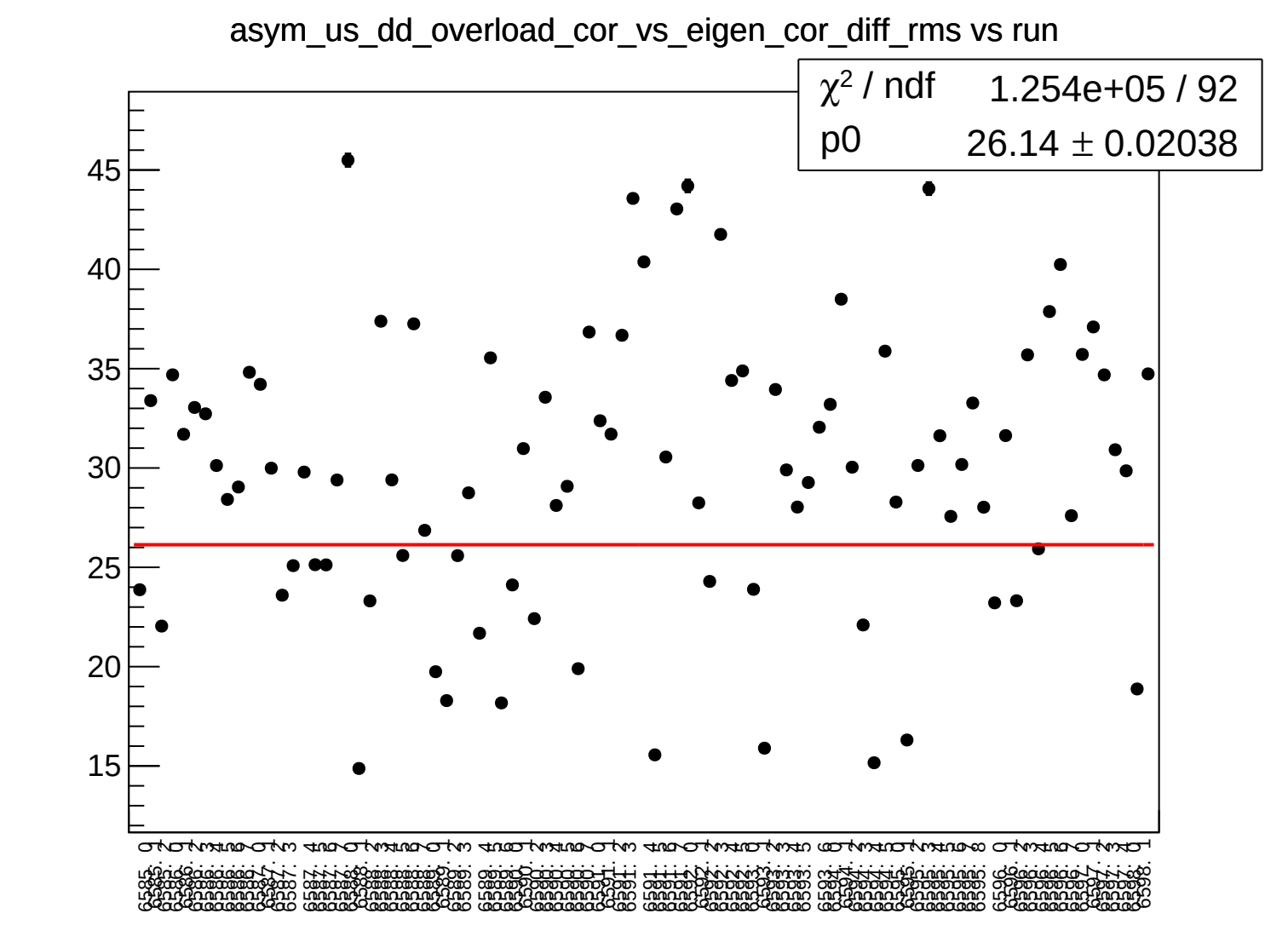

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.222e+05 / 92
p0 5.607e−12 ± 5.232e−15
40
35
30
25
20
15
10
5

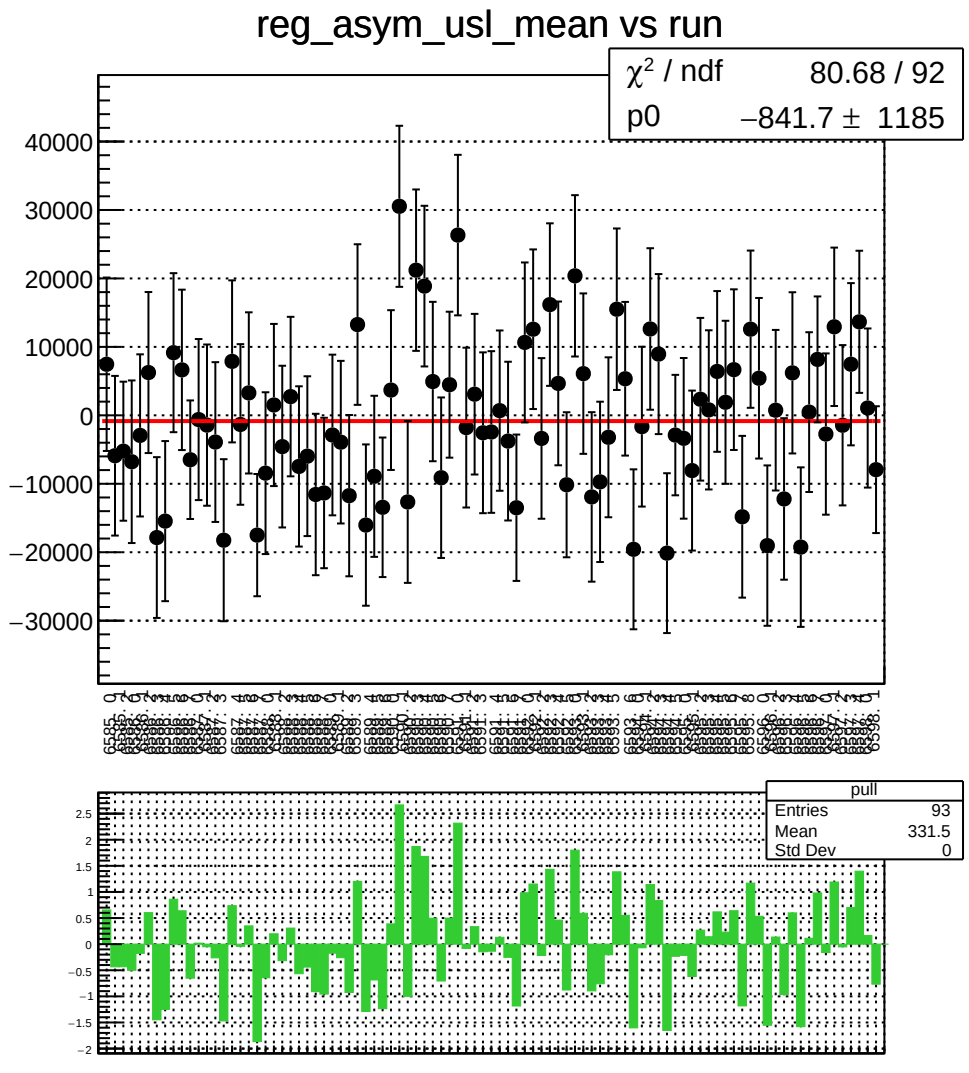

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 72.39 / 92
p0 0.005428 ± 0.02882
pull
Entries 93
Mean −57.42
Std Dev 0

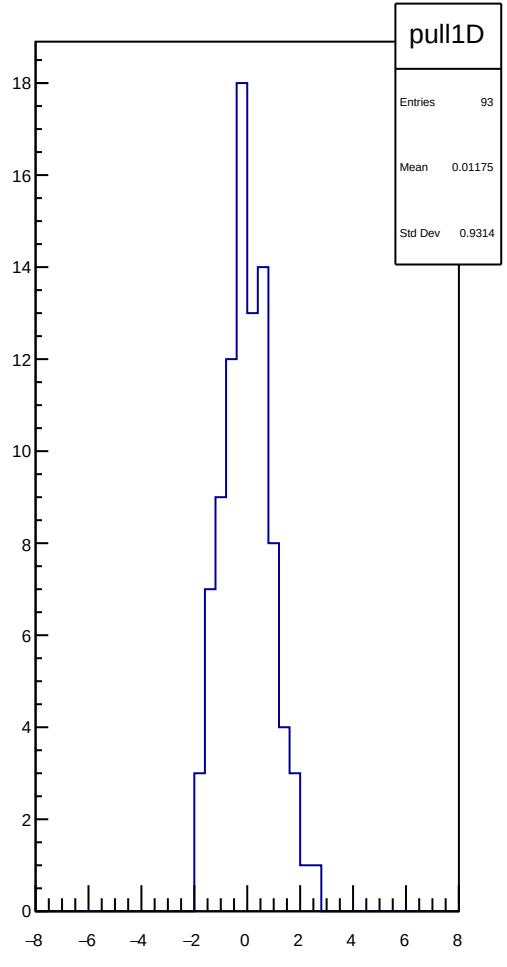

pull1D
Entries 93
Mean 0.01152
Std Dev 0.8822

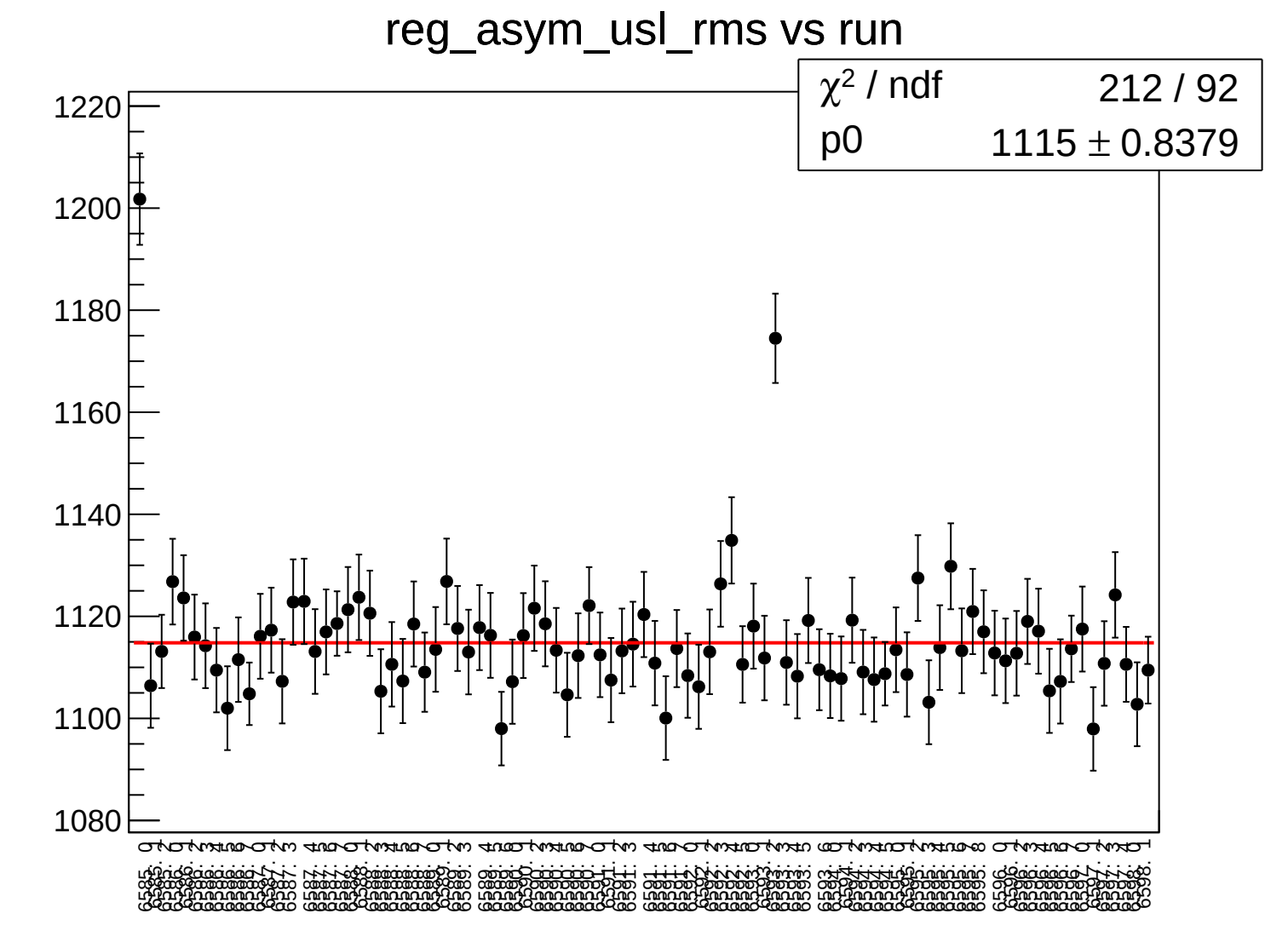

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.254e+05 / 92
p0 26.14 ± 0.02038
45
40
35
30
25
20
15

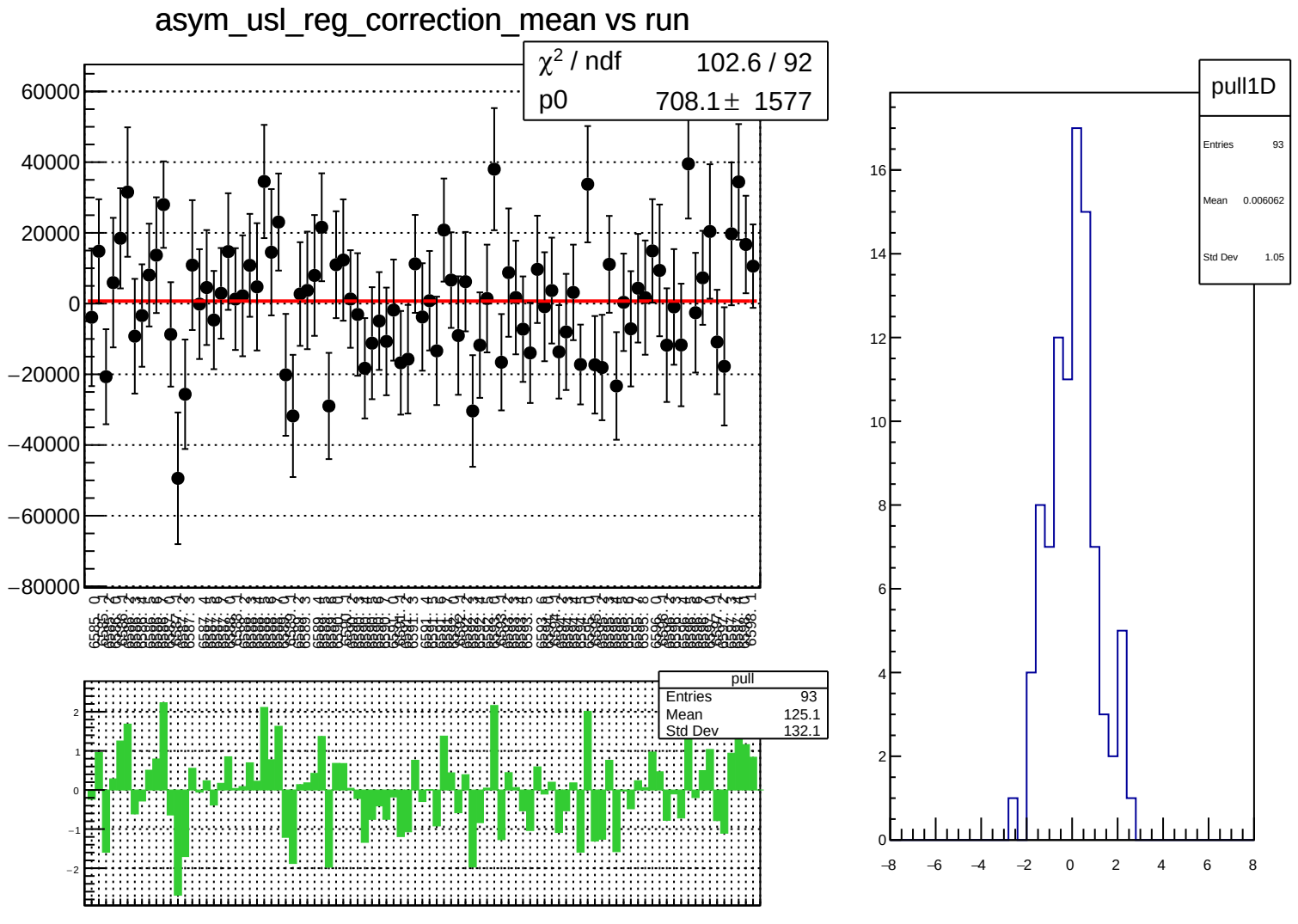

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.39 / 92
p0 0.005428 ± 0.02882
pull
Entries 93
Mean −57.42
Std Dev 0
pull1D
Entries 93
Mean 0.01152
Std Dev 0.8822

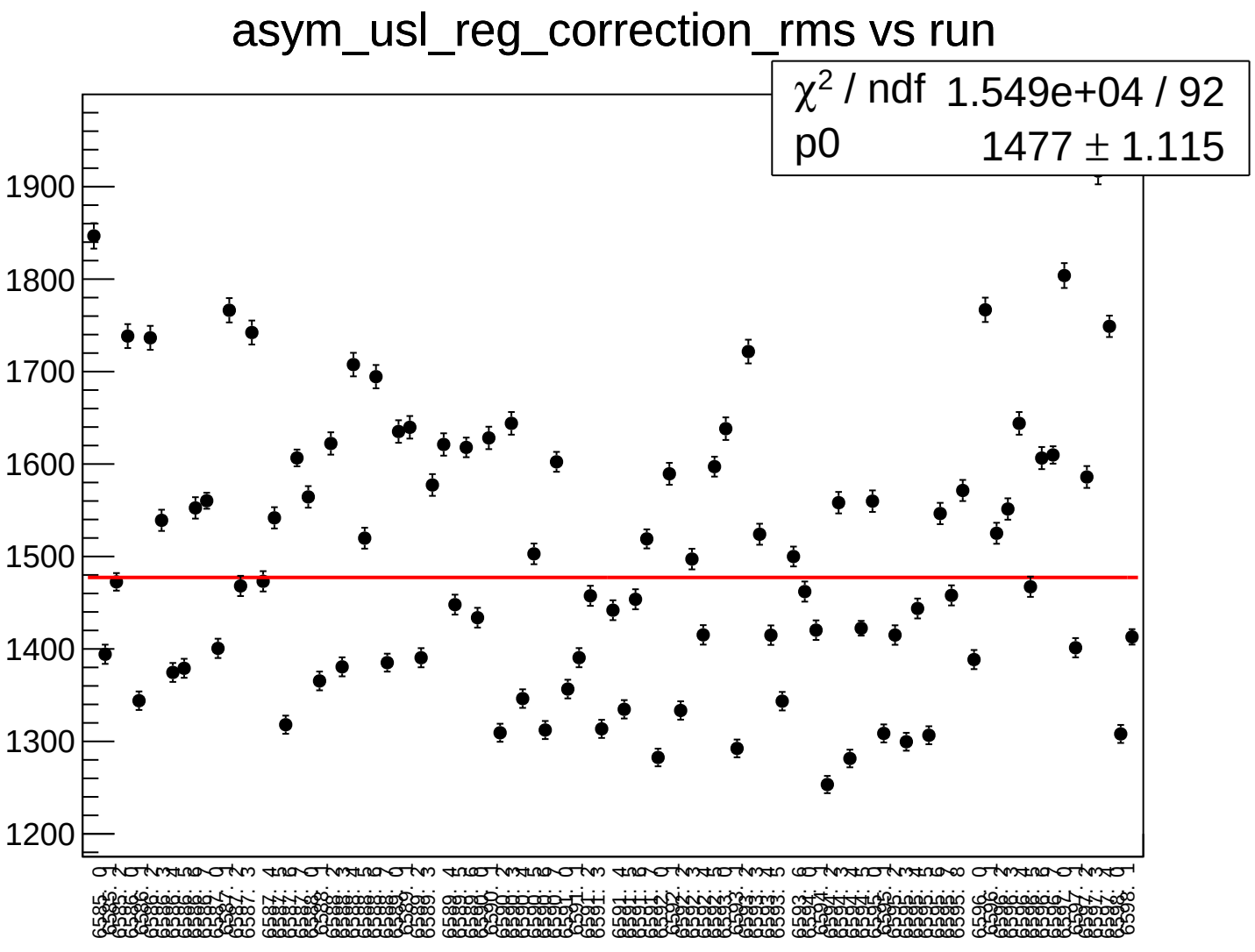

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.254e+05 / 92
p0 26.14 ± 0.02038
45
40
35
30
25
20
15

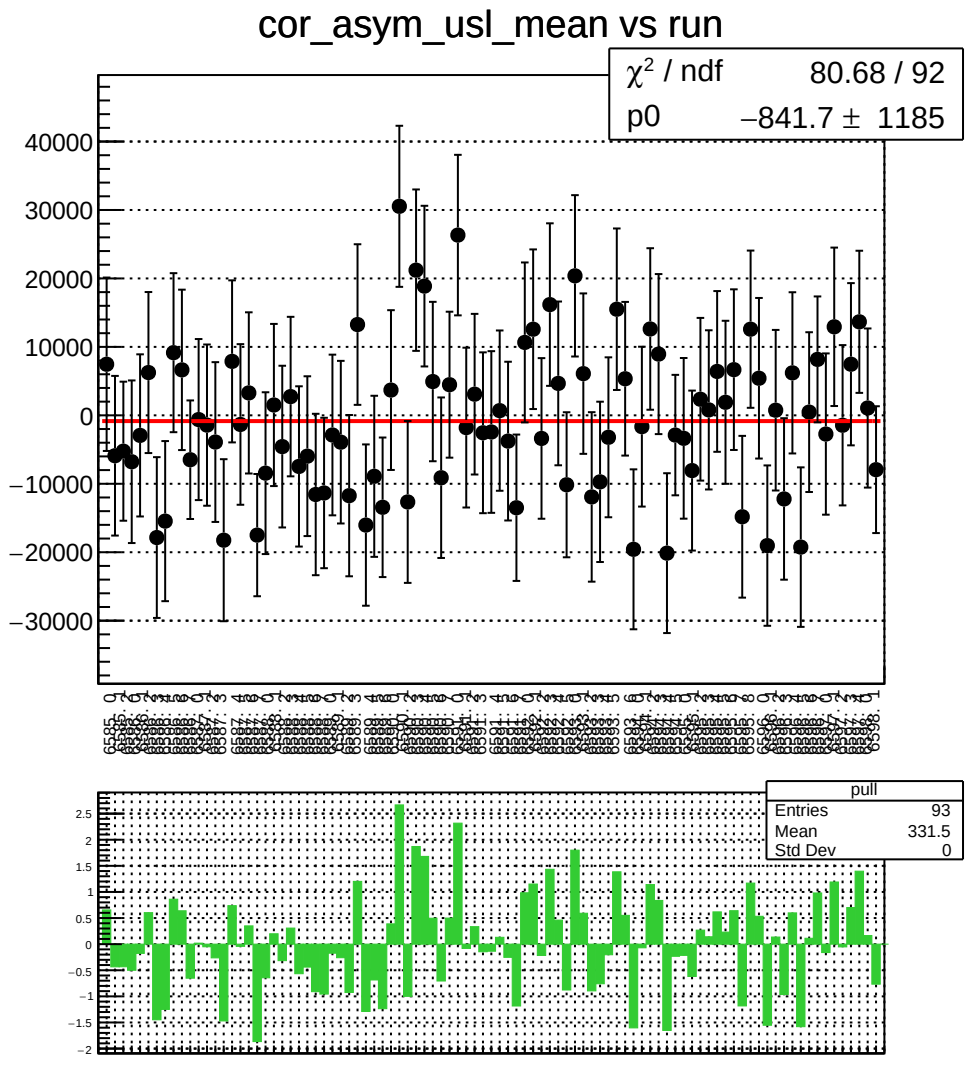

reg_asym_usl_mean vs run
χ² / ndf 80.68 / 92
p0 −841.7 ± 1185
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 331.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

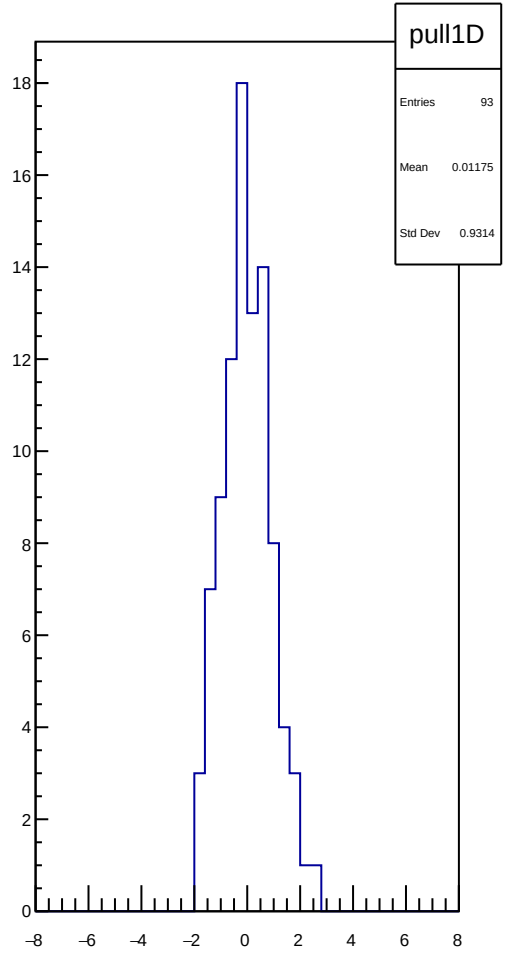

pull1D
Entries 93
Mean 0.01175
Std Dev 0.9314
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

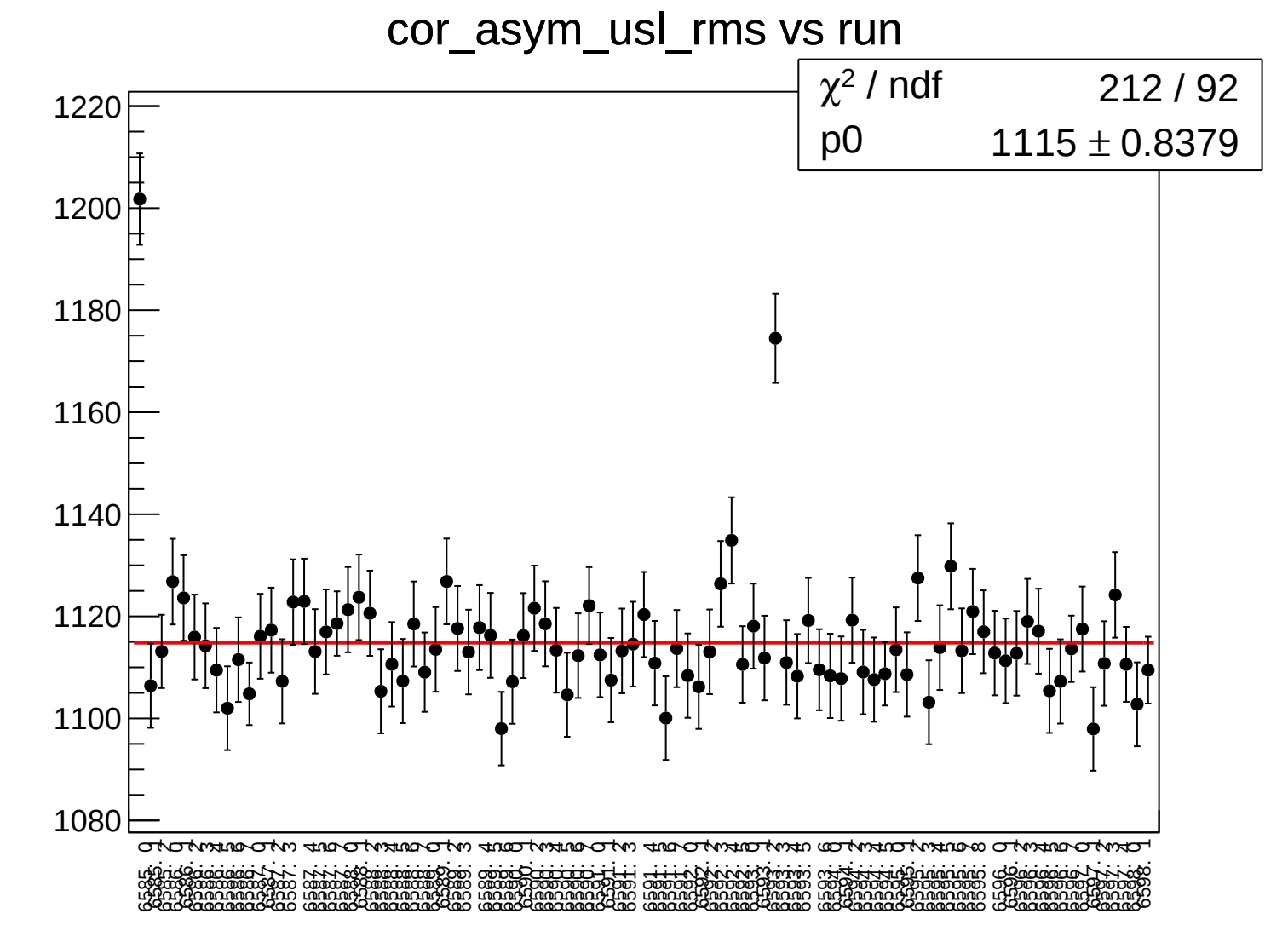

reg_asym_usl_rms vs run
χ² / ndf 212 / 92
p0 1115 ± 0.8379
1220
1200
1180
1160
1140
1120
1100
1080

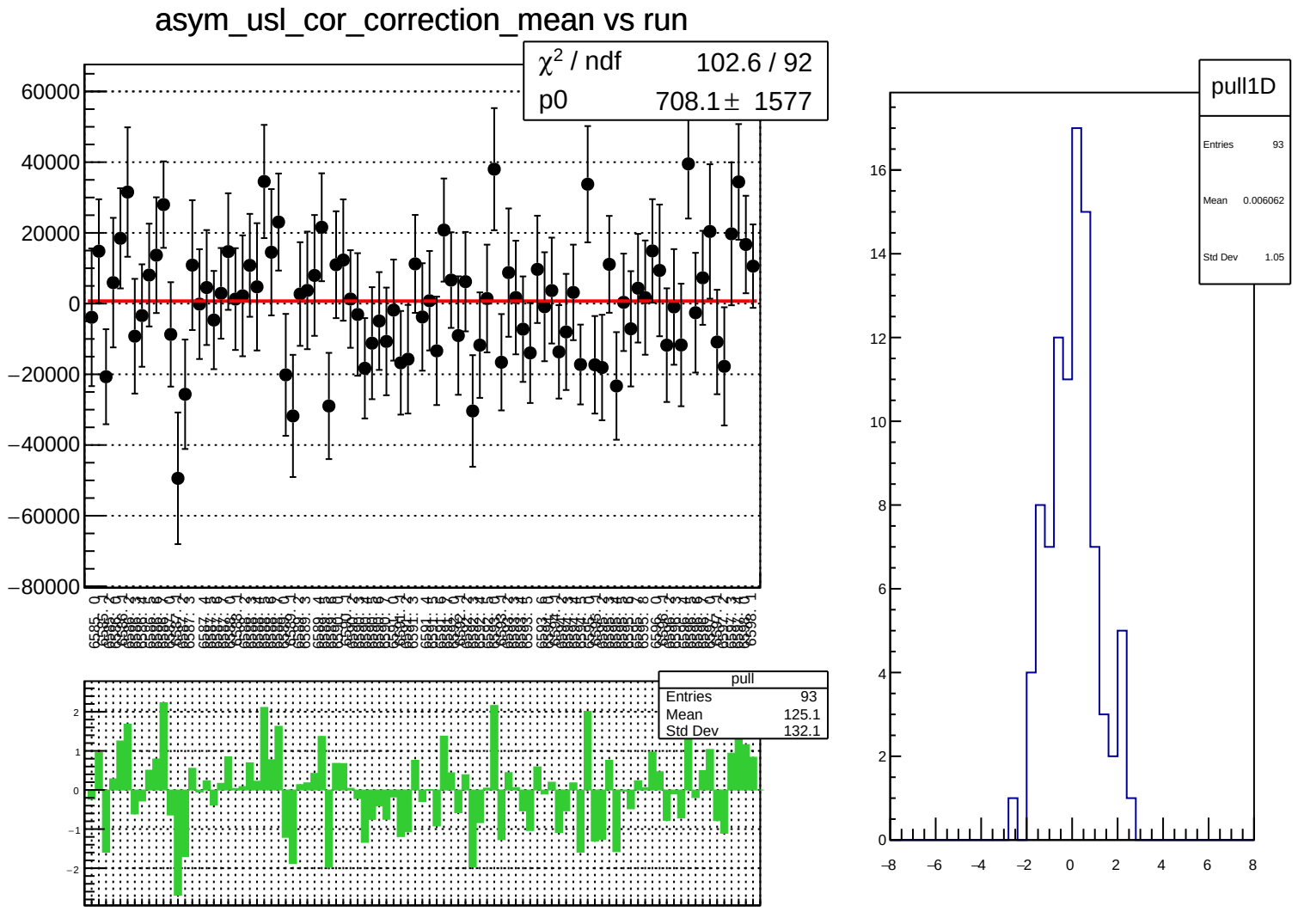

asym_usl_reg_correction_mean vs run
χ² / ndf 102.6 / 92
p0 708.1 ± 1577
pull
Entries 93
Mean 125.1
Std Dev 132.1
pull1D
Entries 93
Mean 0.006062
Std Dev 1.05

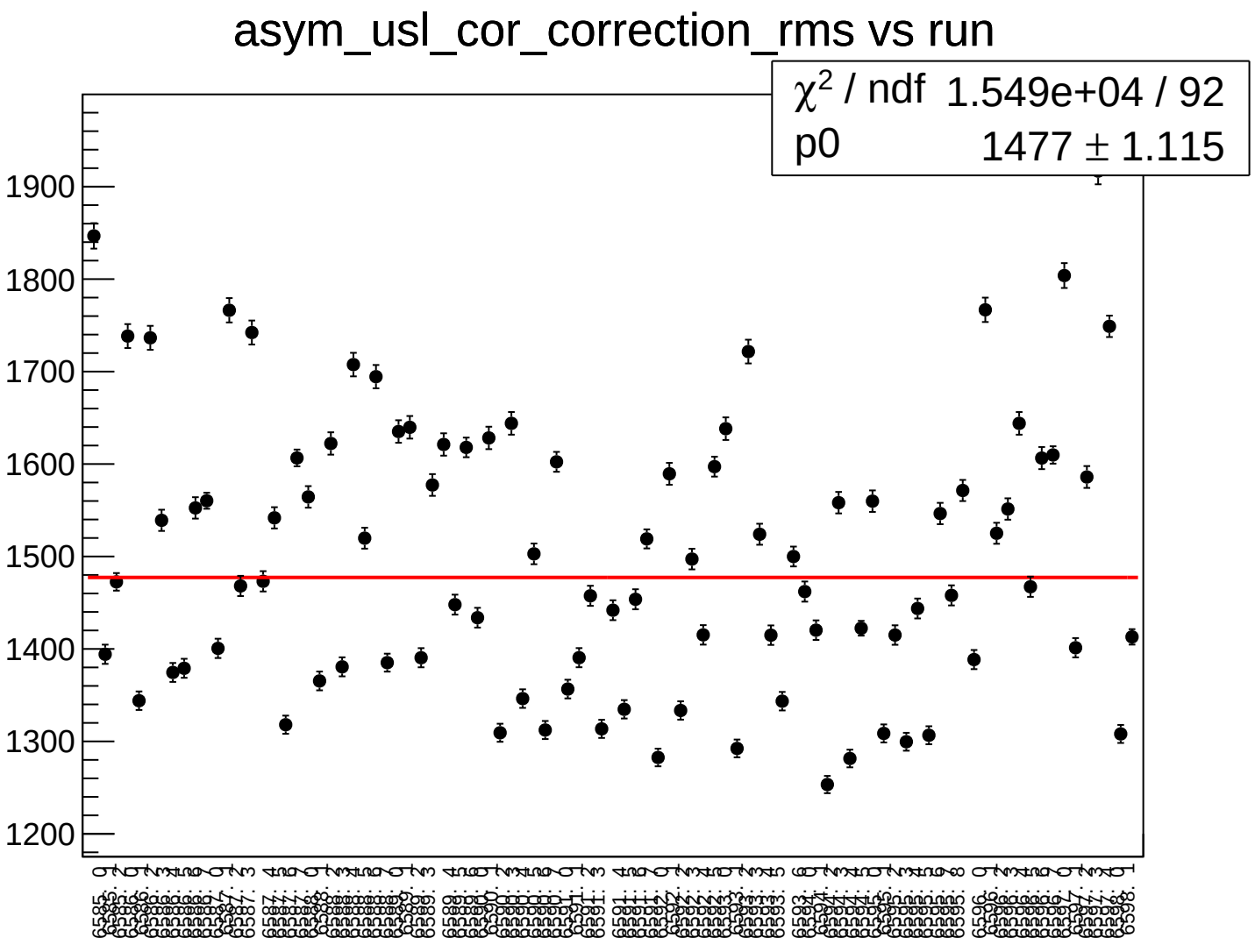

asym_usl_reg_correction_rms vs run
χ² / ndf 1.549e+04 / 92
p0 1477 ± 1.115
1900
1800
1700
1600
1500
1400
1300
1200

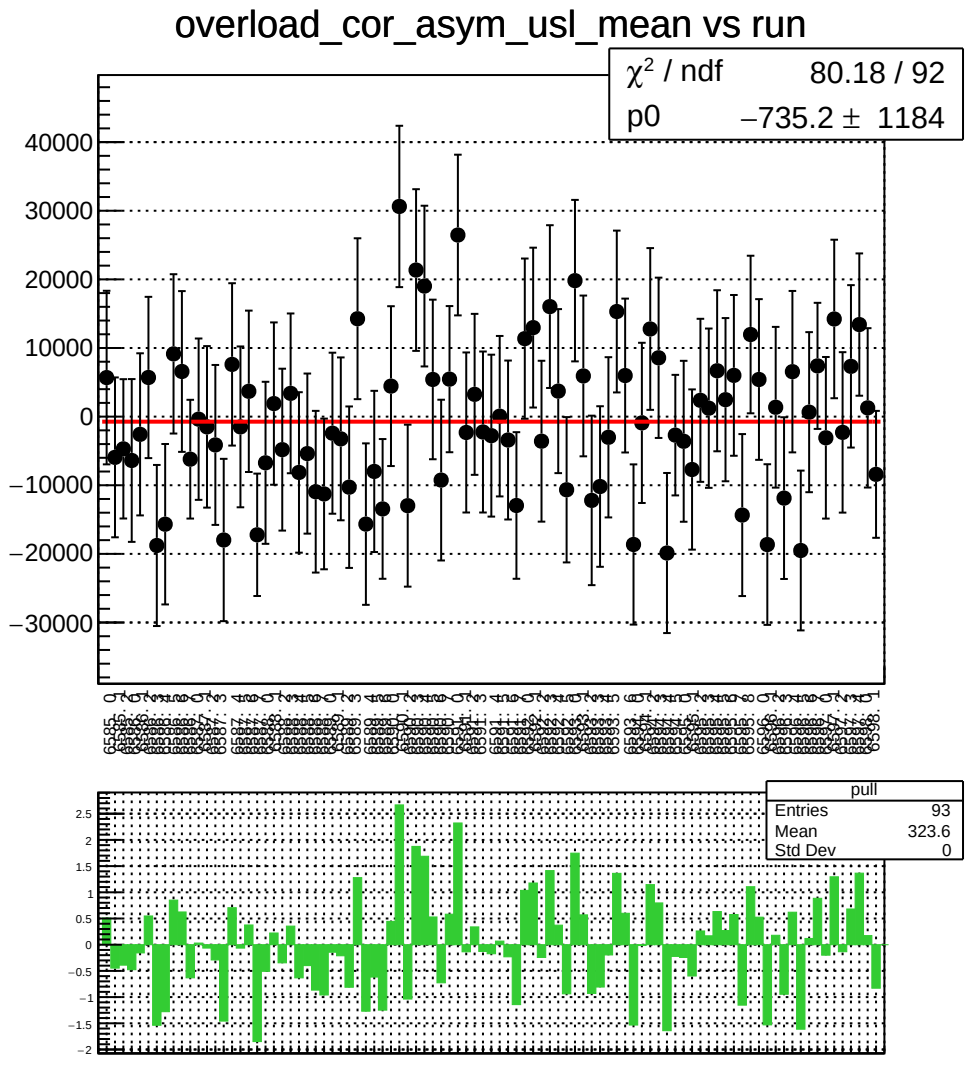

cor_asym_usl_mean vs run
χ² / ndf 80.68 / 92
p0 −841.7 ± 1185
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 331.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

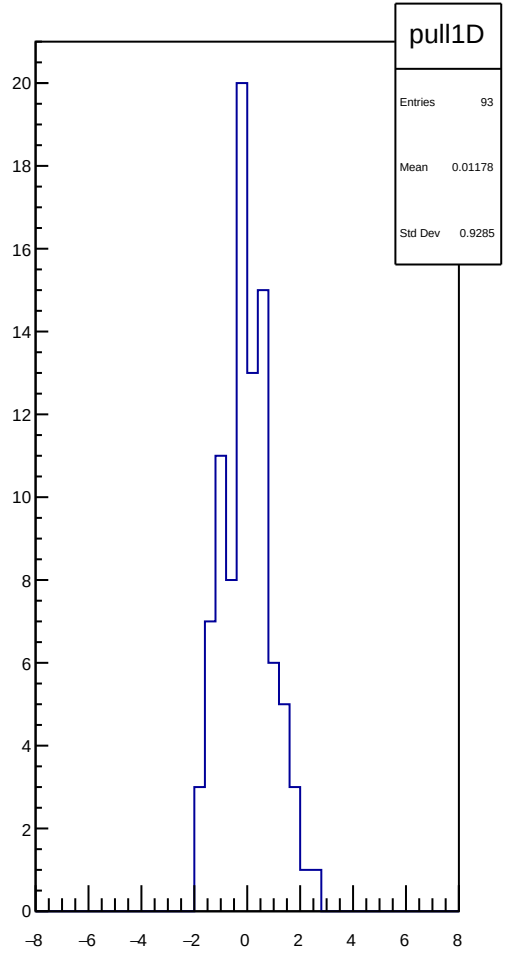

pull1D
Entries 93
Mean 0.01175
Std Dev 0.9314
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

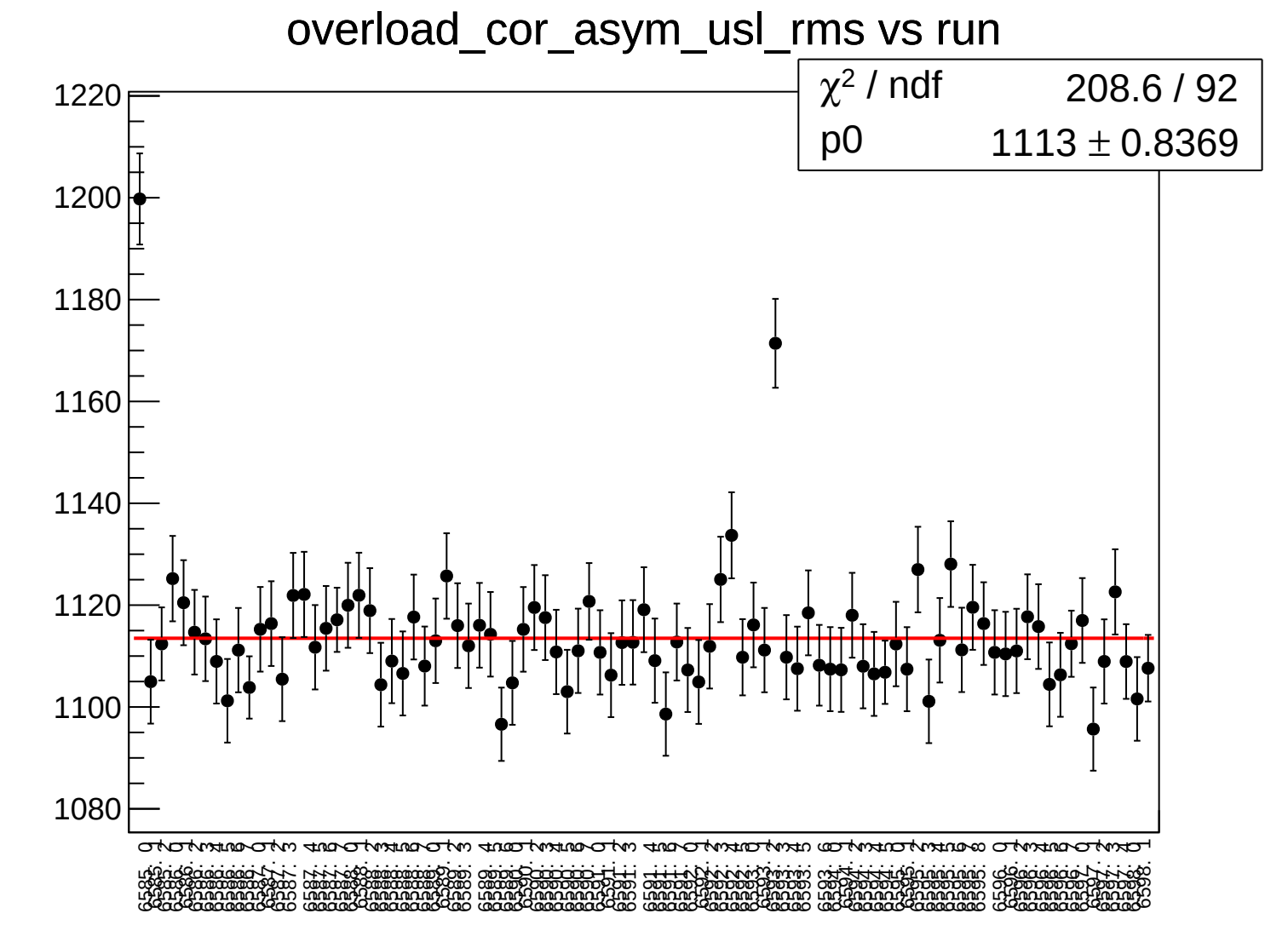

cor_asym_usl_rms vs run
χ² / ndf 212 / 92
p0 1115 ± 0.8379
1220
1200
1180
1160
1140
1120
1100
1080

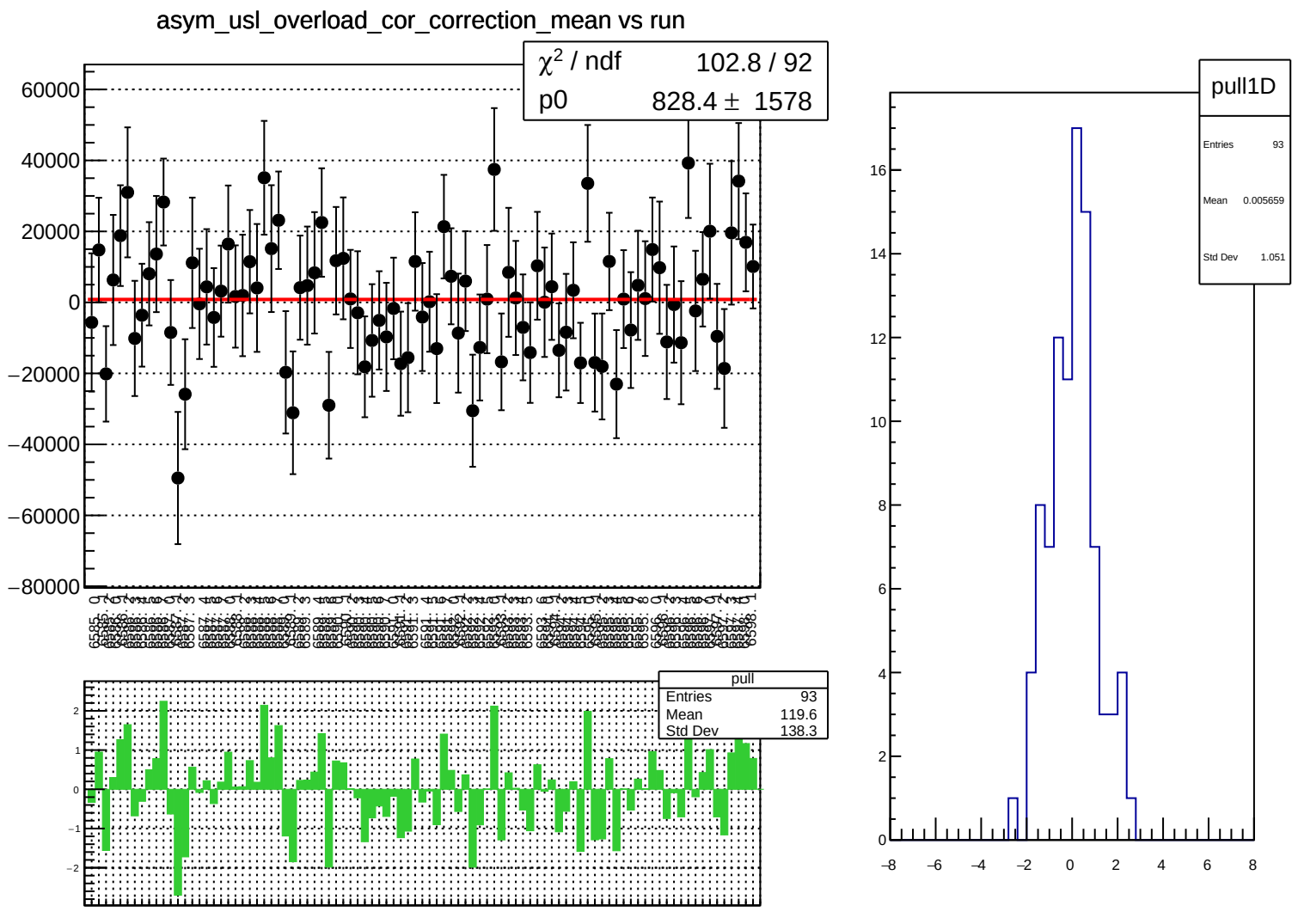

asym_usl_cor_correction_mean vs run
χ² / ndf 102.6 / 92
p0 708.1 ± 1577
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 125.1
Std Dev 132.1
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006062
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

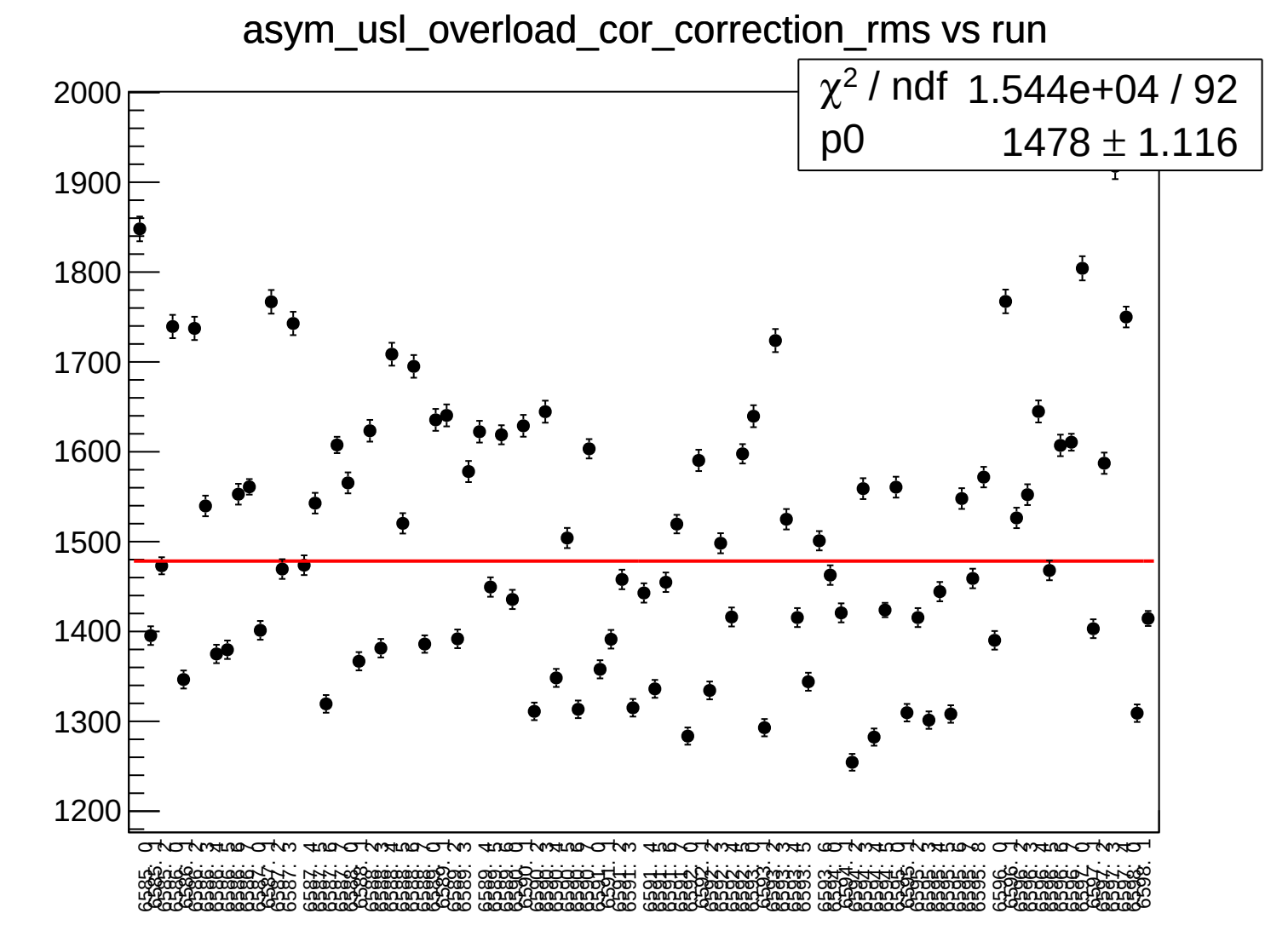

asym_usl_cor_correction_rms vs run
χ² / ndf 1.549e+04 / 92
p0 1477 ± 1.115
1900
1800
1700
1600
1500
1400
1300
1200

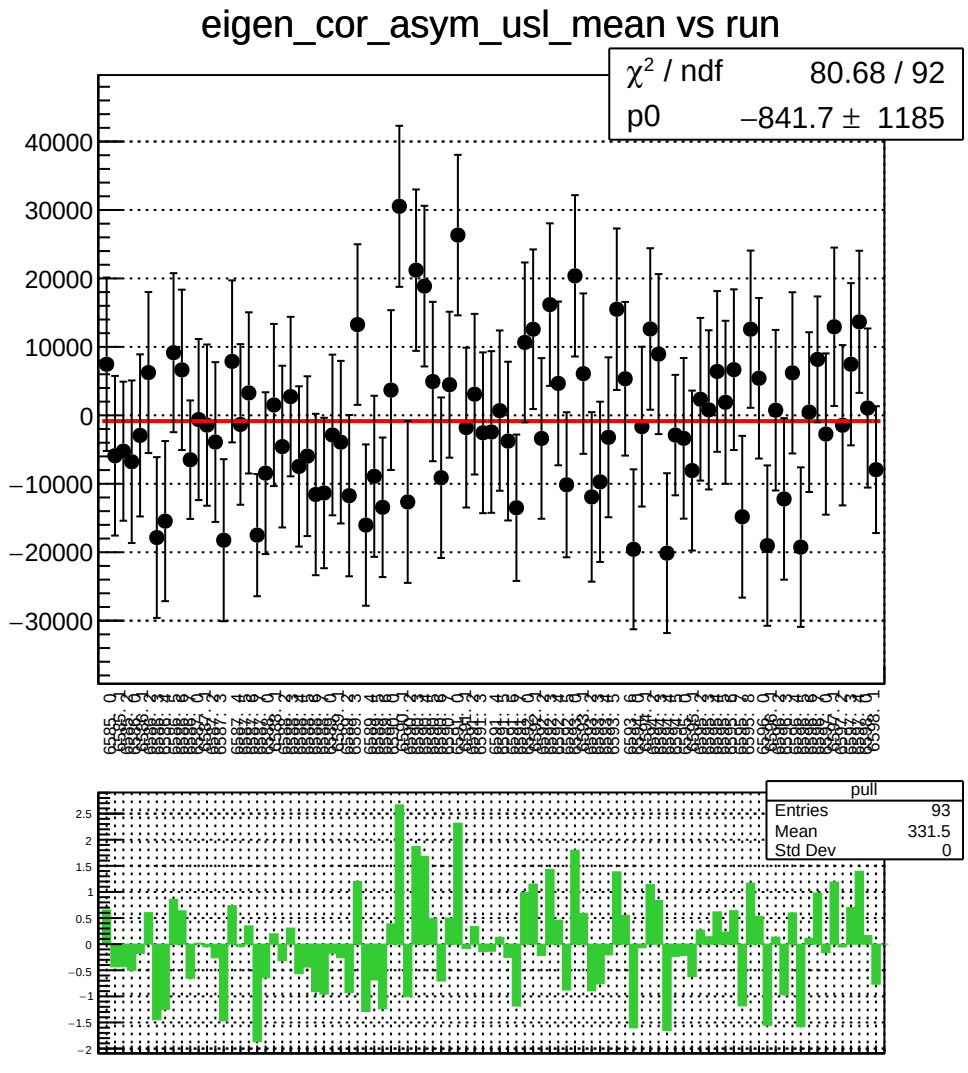

overload_cor_asym_usl_mean vs run
χ² / ndf 80.18 / 92
p0 −735.2 ± 1184
pull
Entries 93
Mean 323.6
Std Dev 0

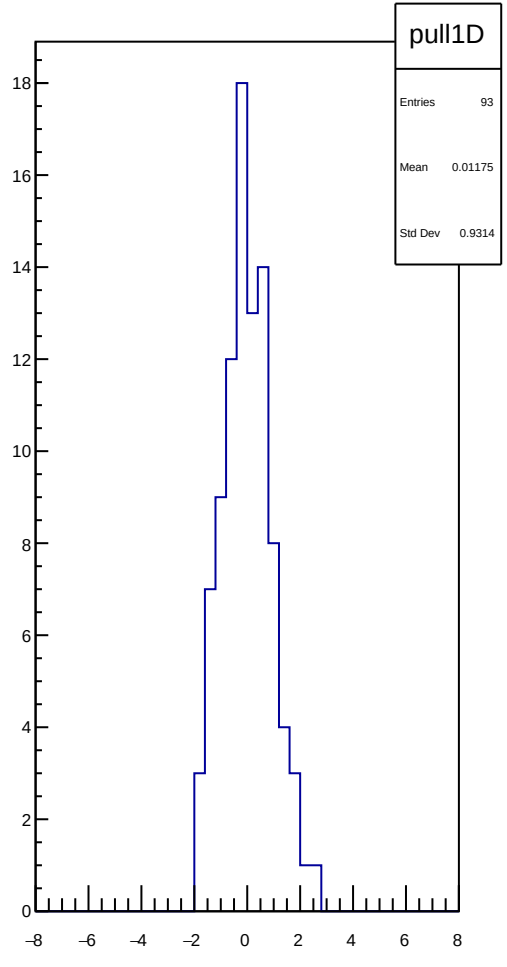

pull1D
Entries 93
Mean 0.01178
Std Dev 0.9285

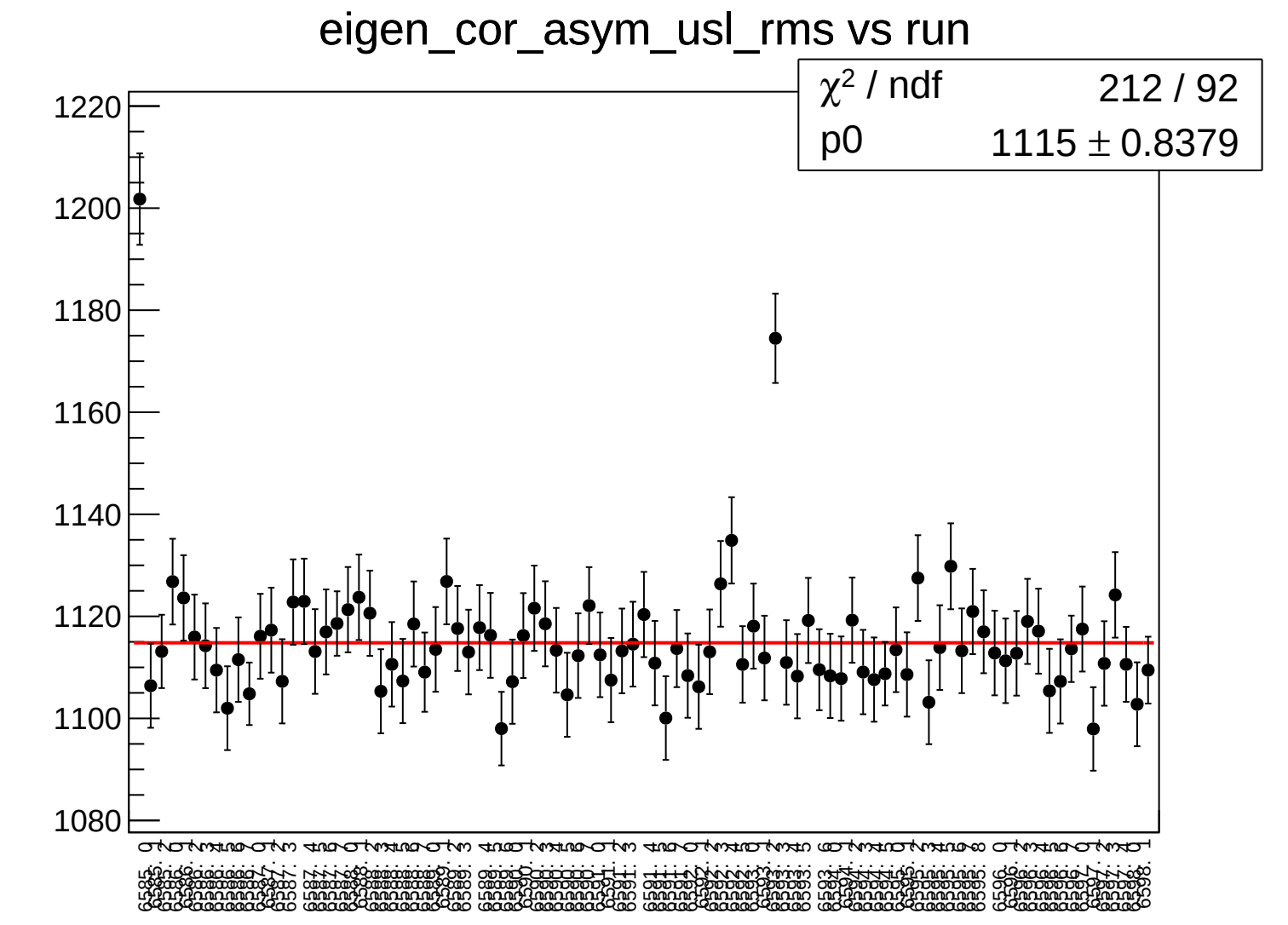

overload_cor_asym_usl_rms vs run
χ² / ndf 208.6 / 92
p0 1113 ± 0.8369
1220
1200
1180
1160
1140
1120
1100
1080

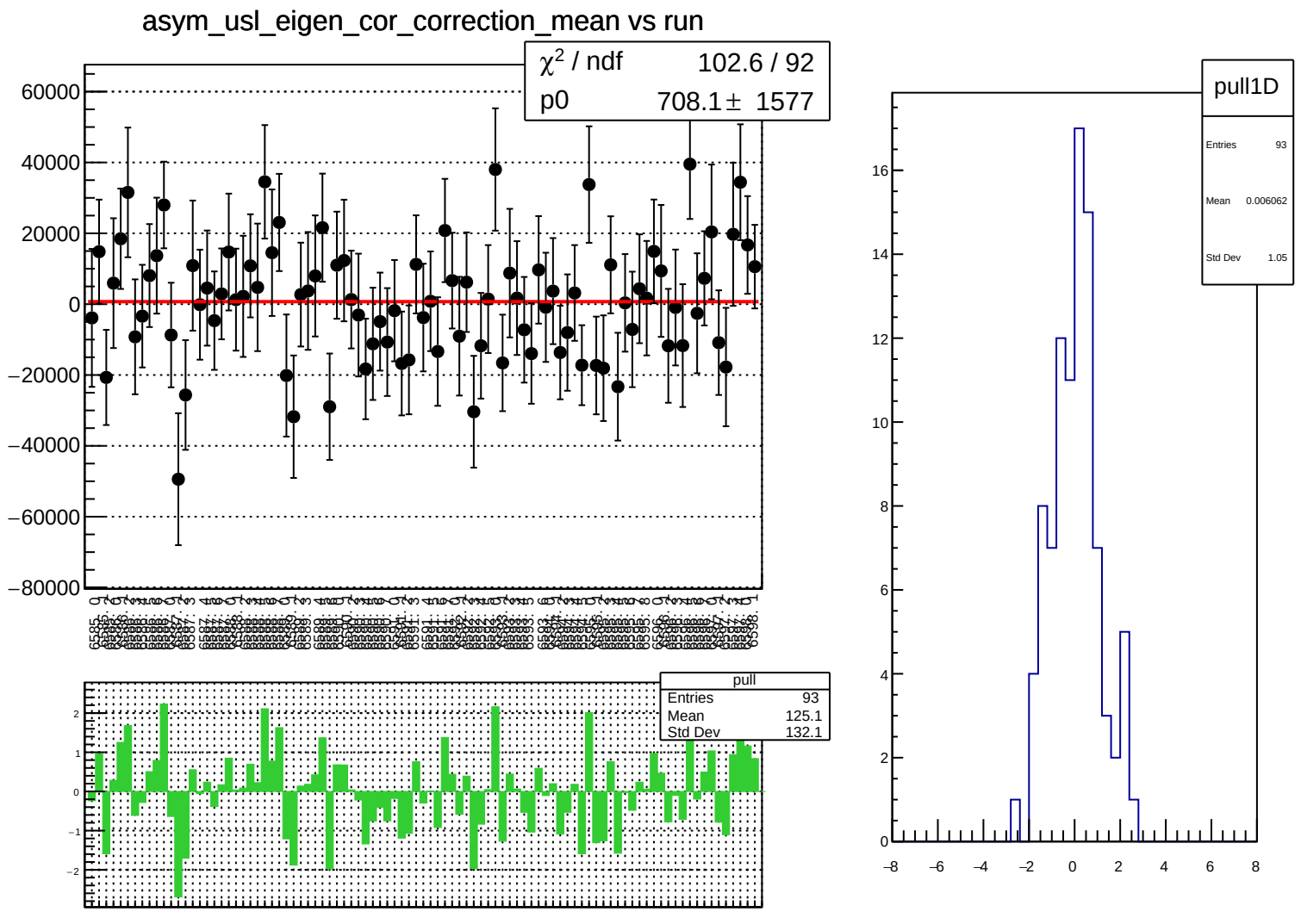

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 102.8 / 92
p0 828.4 ± 1578
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 119.6
Std Dev 138.3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005659
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

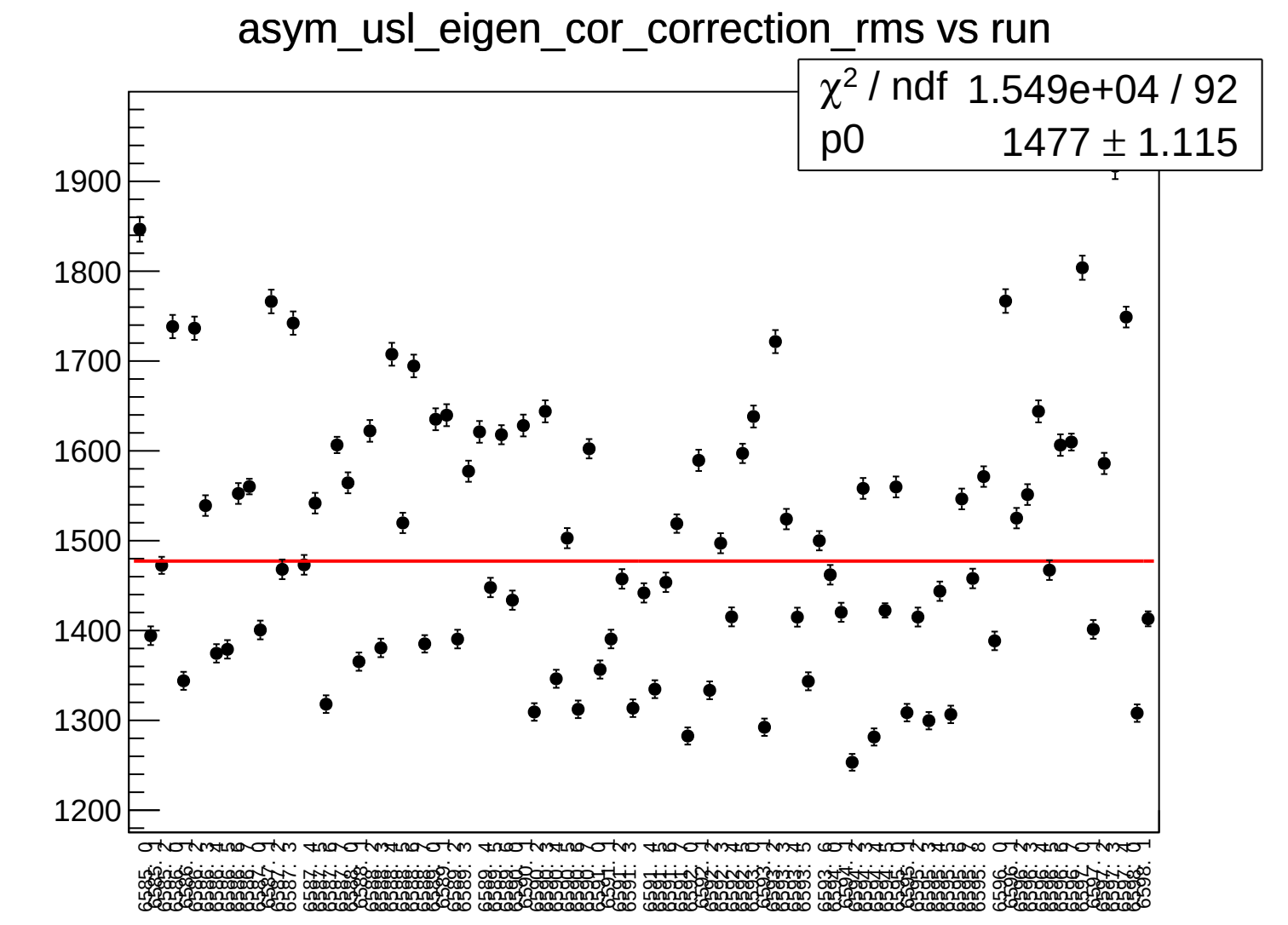

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 1.544e+04 / 92
p0 1478 ± 1.116
2000
1900
1800
1700
1600
1500
1400
1300
1200

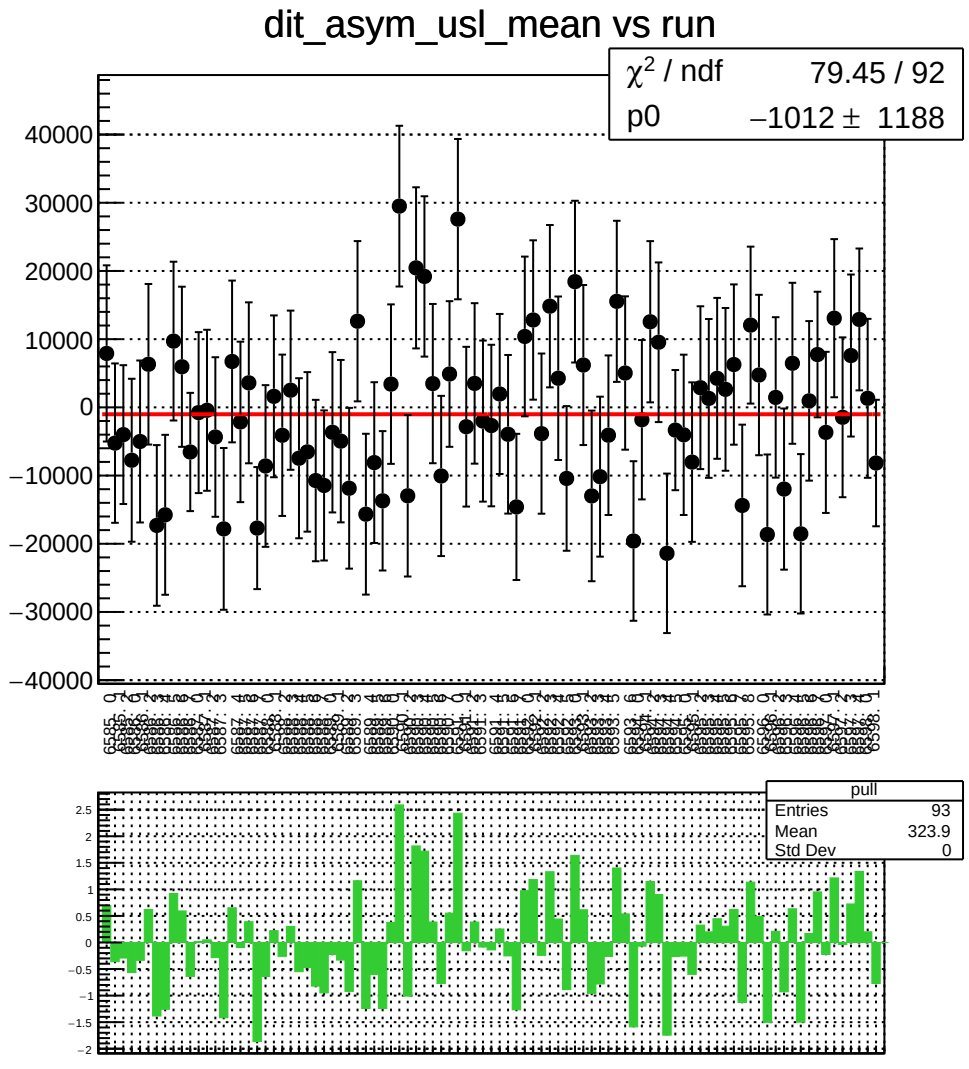

eigen_cor_asym_usl_mean vs run
χ² / ndf 80.68 / 92
p0 −841.7 ± 1185
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 331.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

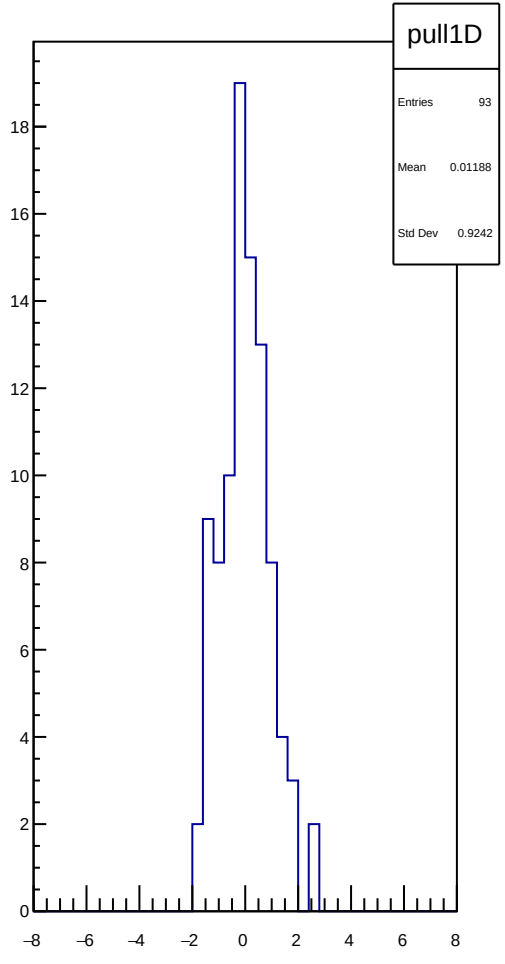

pull1D
Entries 93
Mean 0.01175
Std Dev 0.9314
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

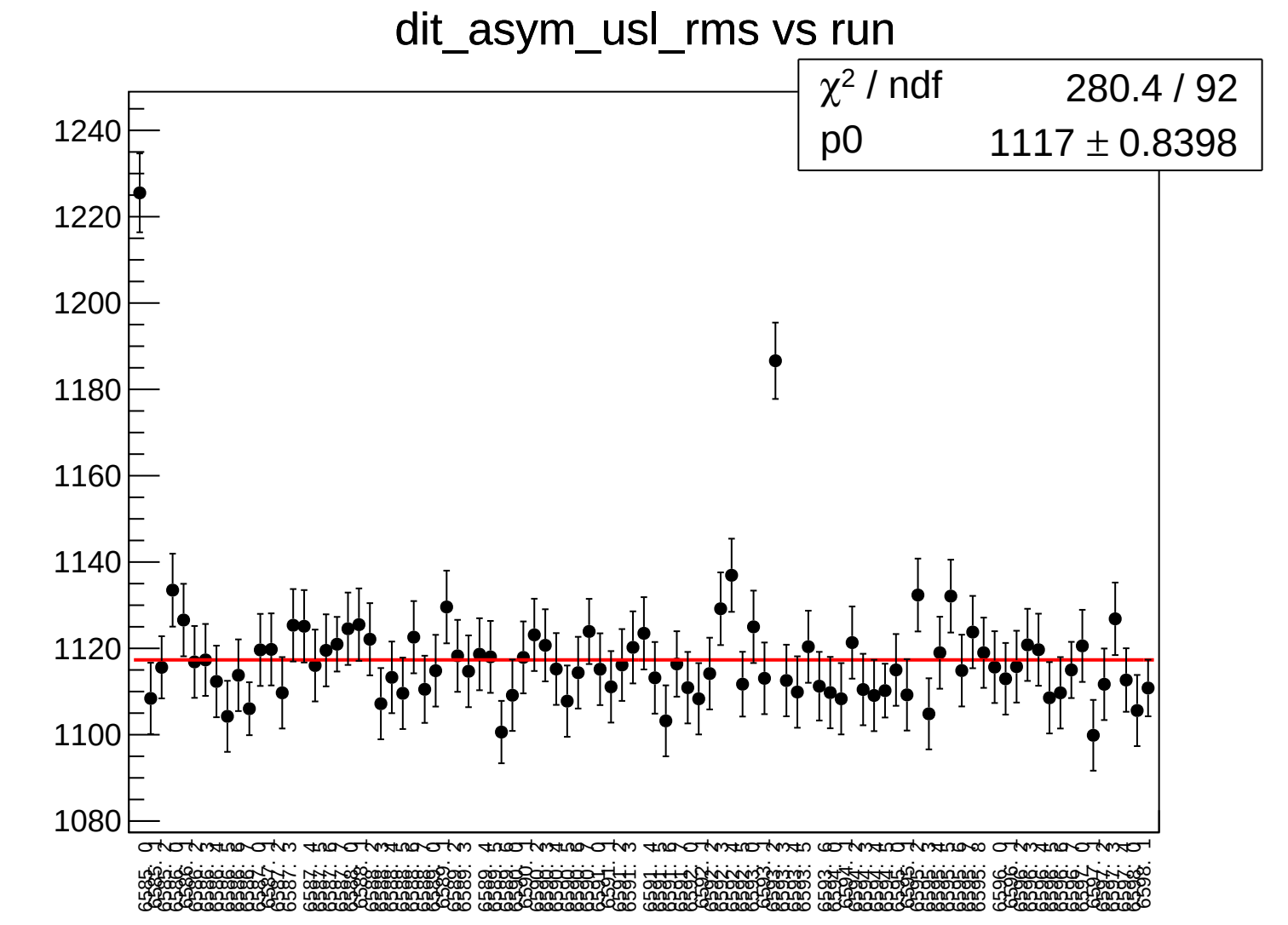

eigen_cor_asym_usl_rms vs run
χ² / ndf 212 / 92
p0 1115 ± 0.8379
1220
1200
1180
1160
1140
1120
1100
1080

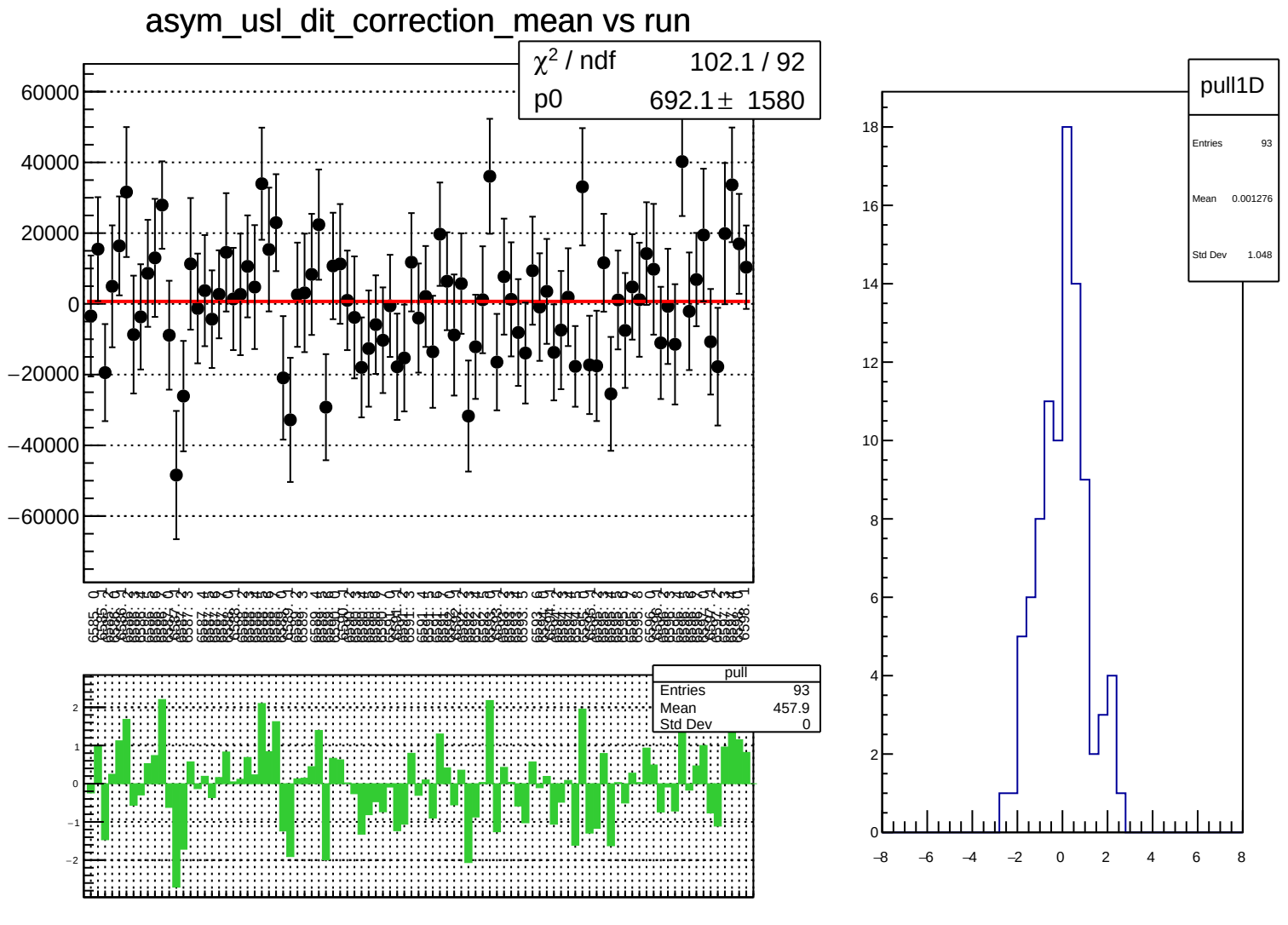

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 102.6 / 92
p0 708.1 ± 1577
pull
Entries 93
Mean 125.1
Std Dev 132.1
pull1D
Entries 93
Mean 0.006062
Std Dev 1.05

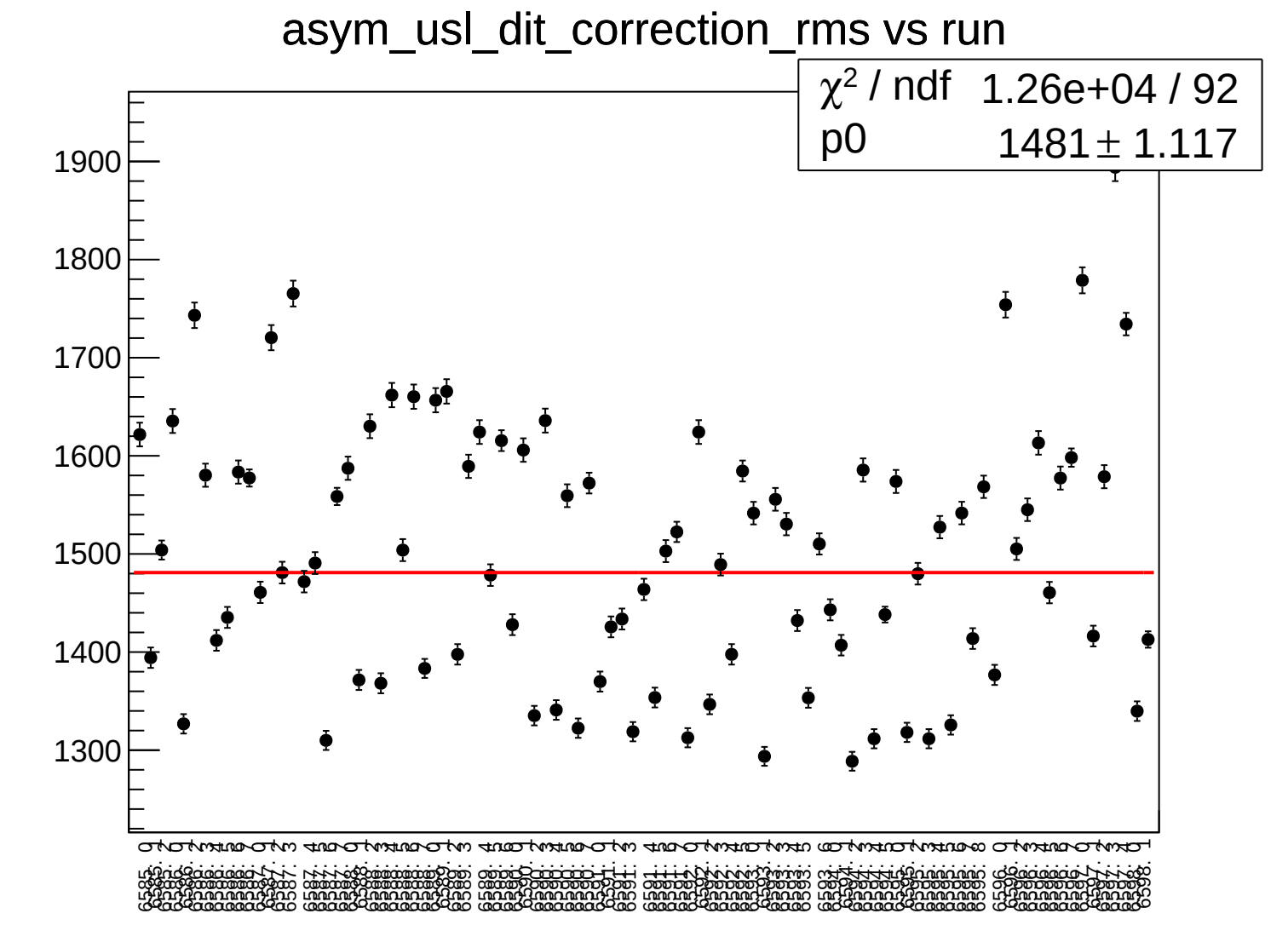

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 1.549e+04 / 92
p0 1477 ± 1.115
1900
1800
1700
1600
1500
1400
1300
1200

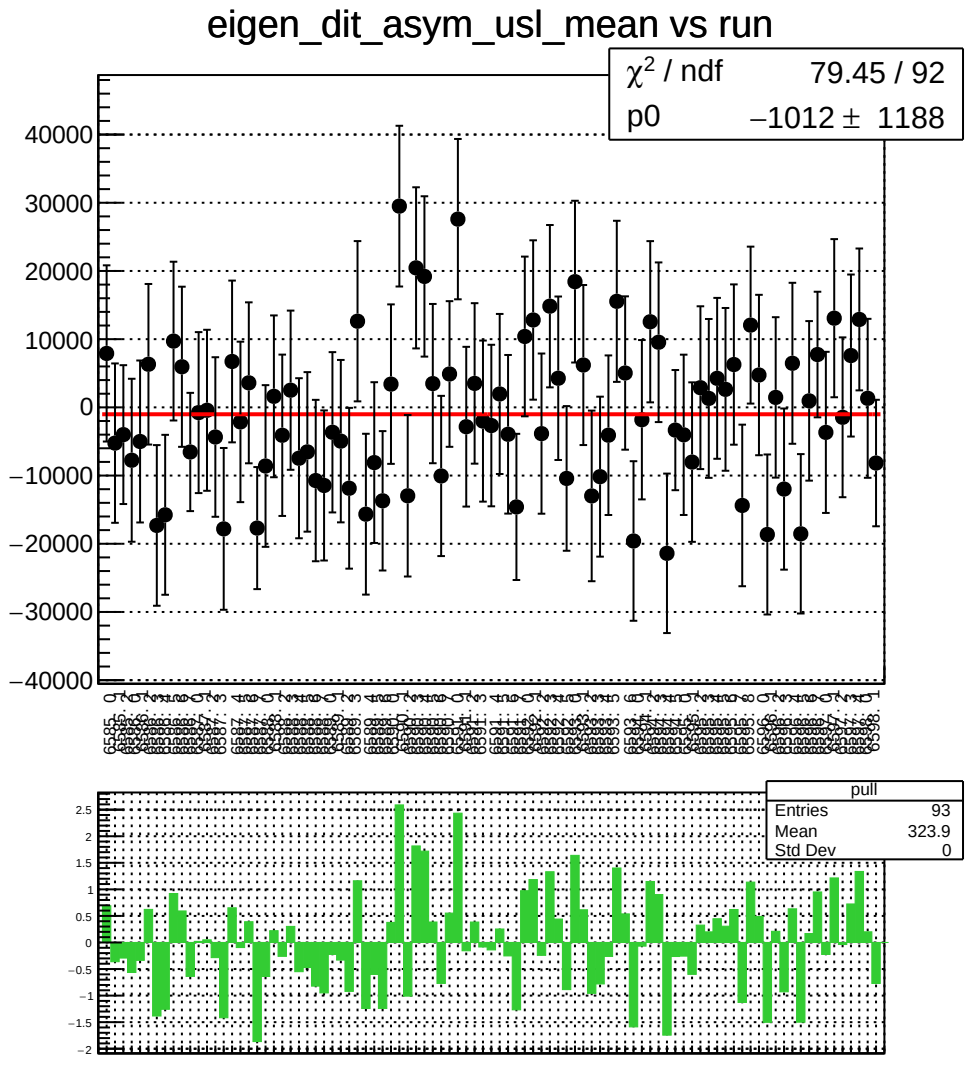

dit_asym_usl_mean vs run
χ² / ndf 79.45 / 92
p0 −1012 ± 1188
pull
Entries 93
Mean 323.9
Std Dev 0

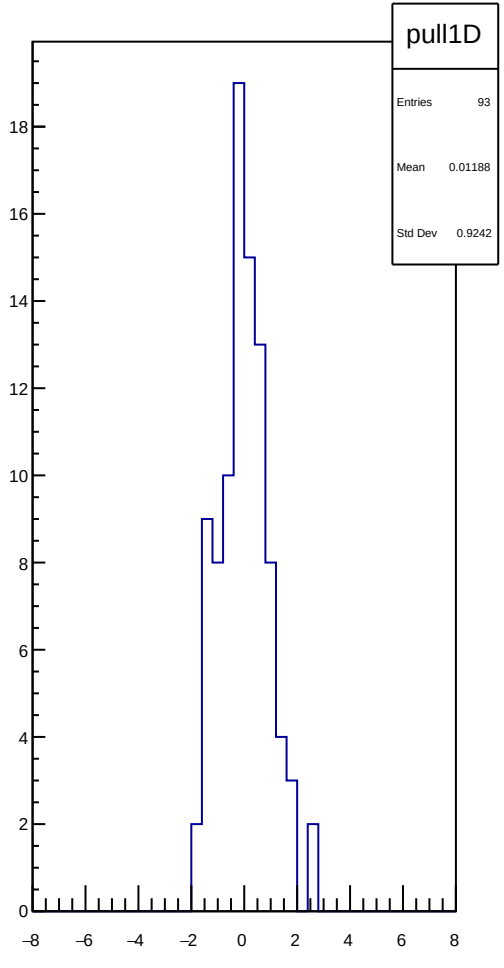

pull1D
Entries 93
Mean 0.01188
Std Dev 0.9242

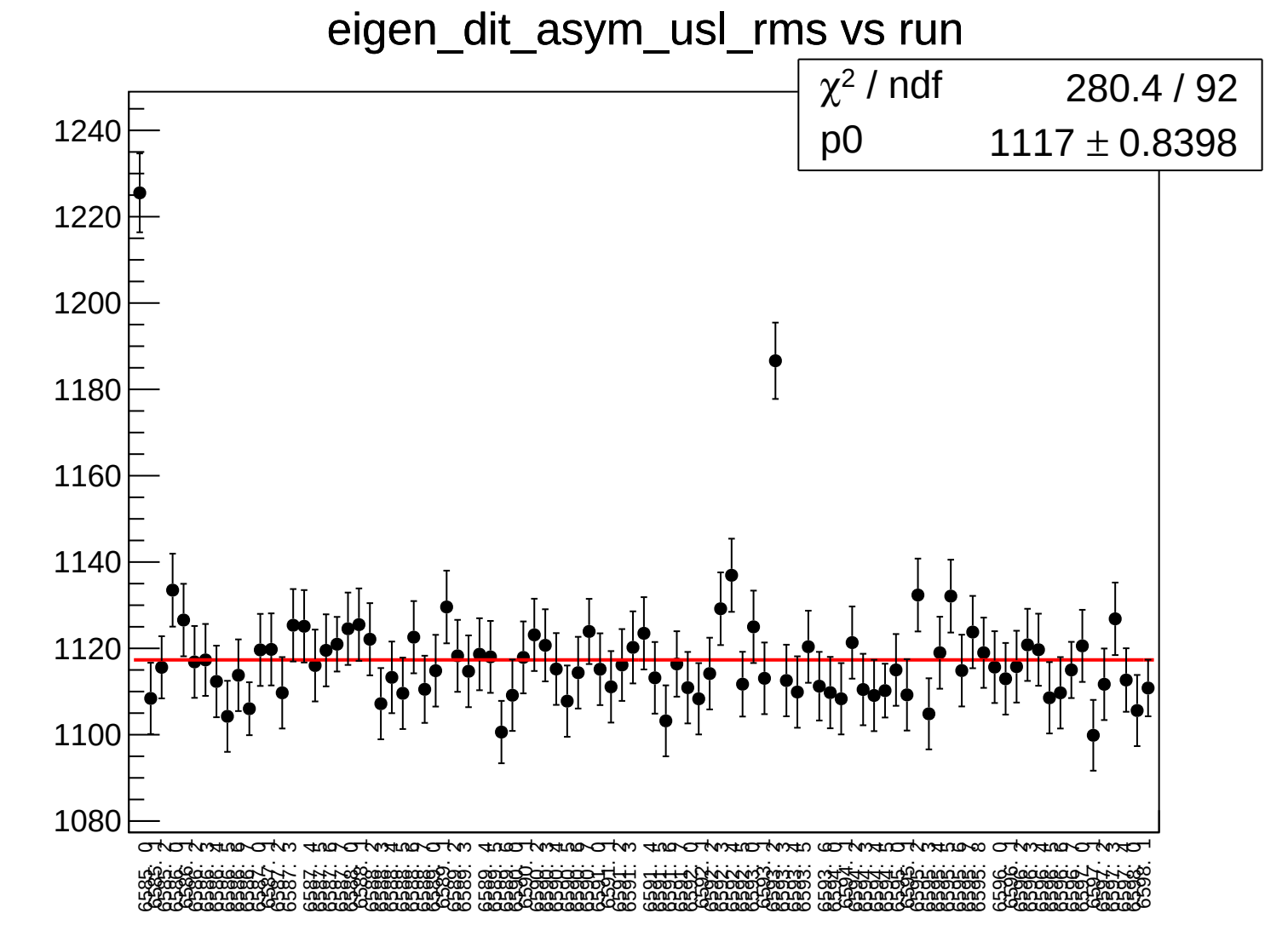

dit_asym_usl_rms vs run
χ² / ndf 280.4 / 92
p0 1117 ± 0.8398
1240
1220
1200
1180
1160
1140
1120
1100
1080

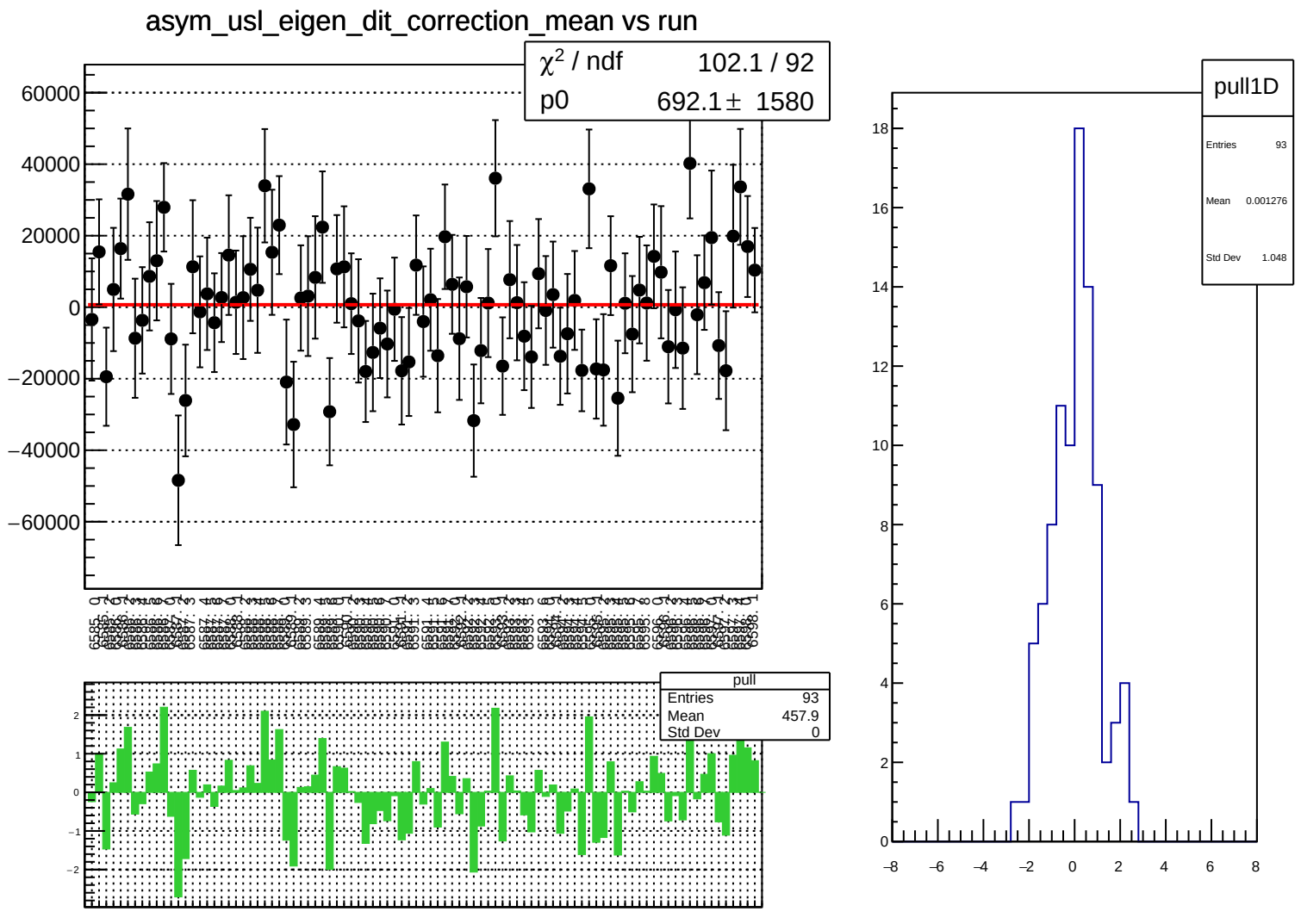

asym_usl_dit_correction_mean vs run
χ² / ndf 102.1 / 92
p0 692.1 ± 1580
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 457.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001276
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

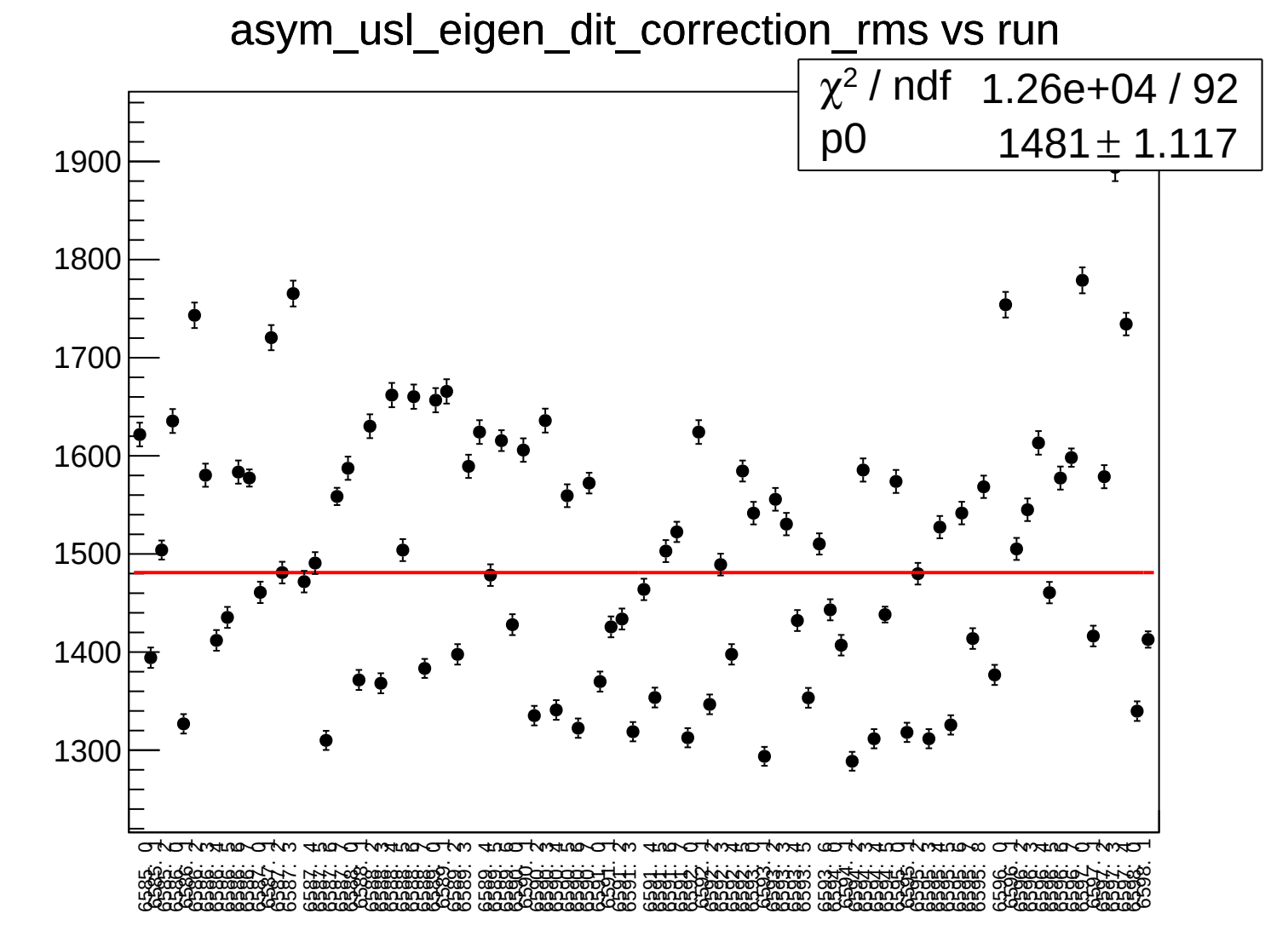

asym_usl_dit_correction_rms vs run
χ² / ndf 1.26e+04 / 92
p0 1481 ± 1.117
1900
1800
1700
1600
1500
1400
1300

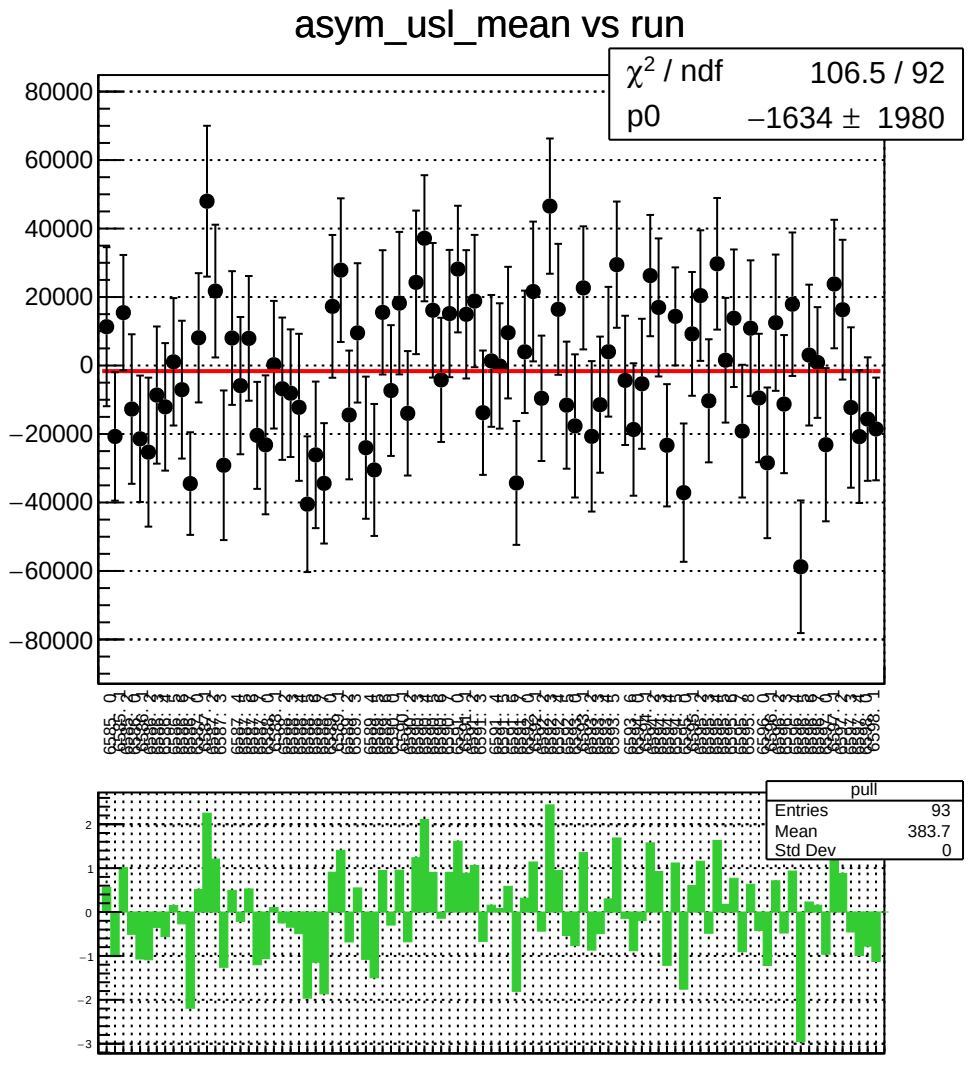

eigen_dit_asym_usl_mean vs run
χ² / ndf 79.45 / 92
p0 −1012 ± 1188
pull
Entries 93
Mean 323.9
Std Dev 0

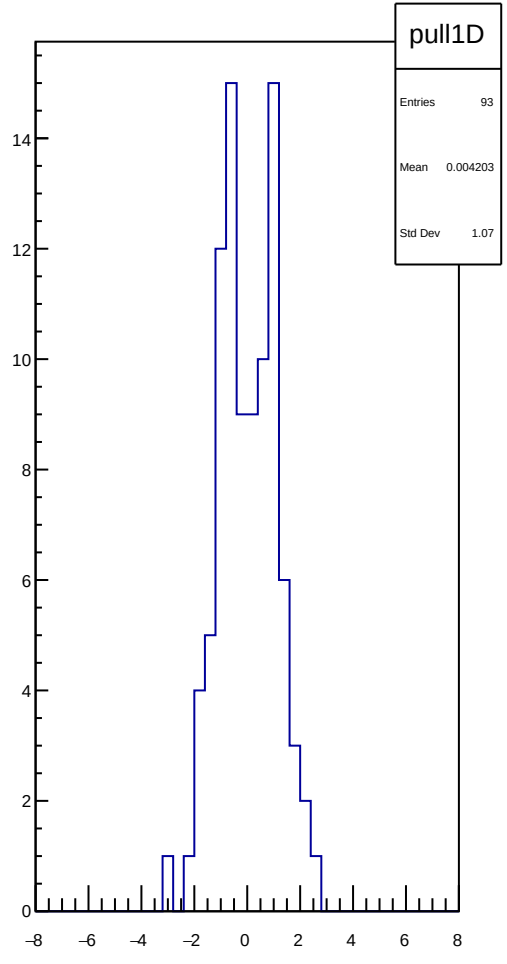

pull1D
Entries 93
Mean 0.01188
Std Dev 0.9242

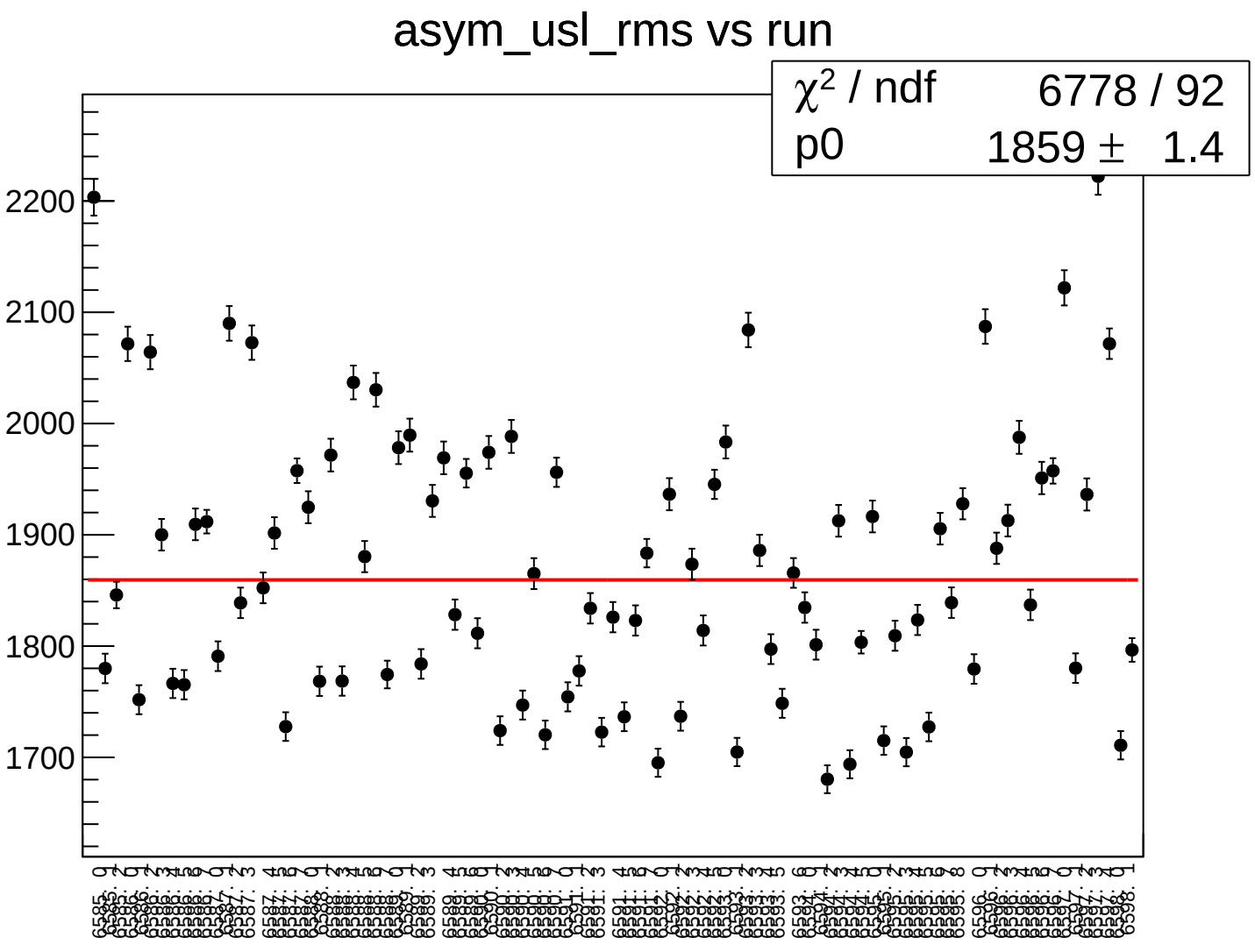

eigen_dit_asym_usl_rms vs run
χ² / ndf 280.4 / 92
p0 1117 ± 0.8398
1240
1220
1200
1180
1160
1140
1120
1100
1080

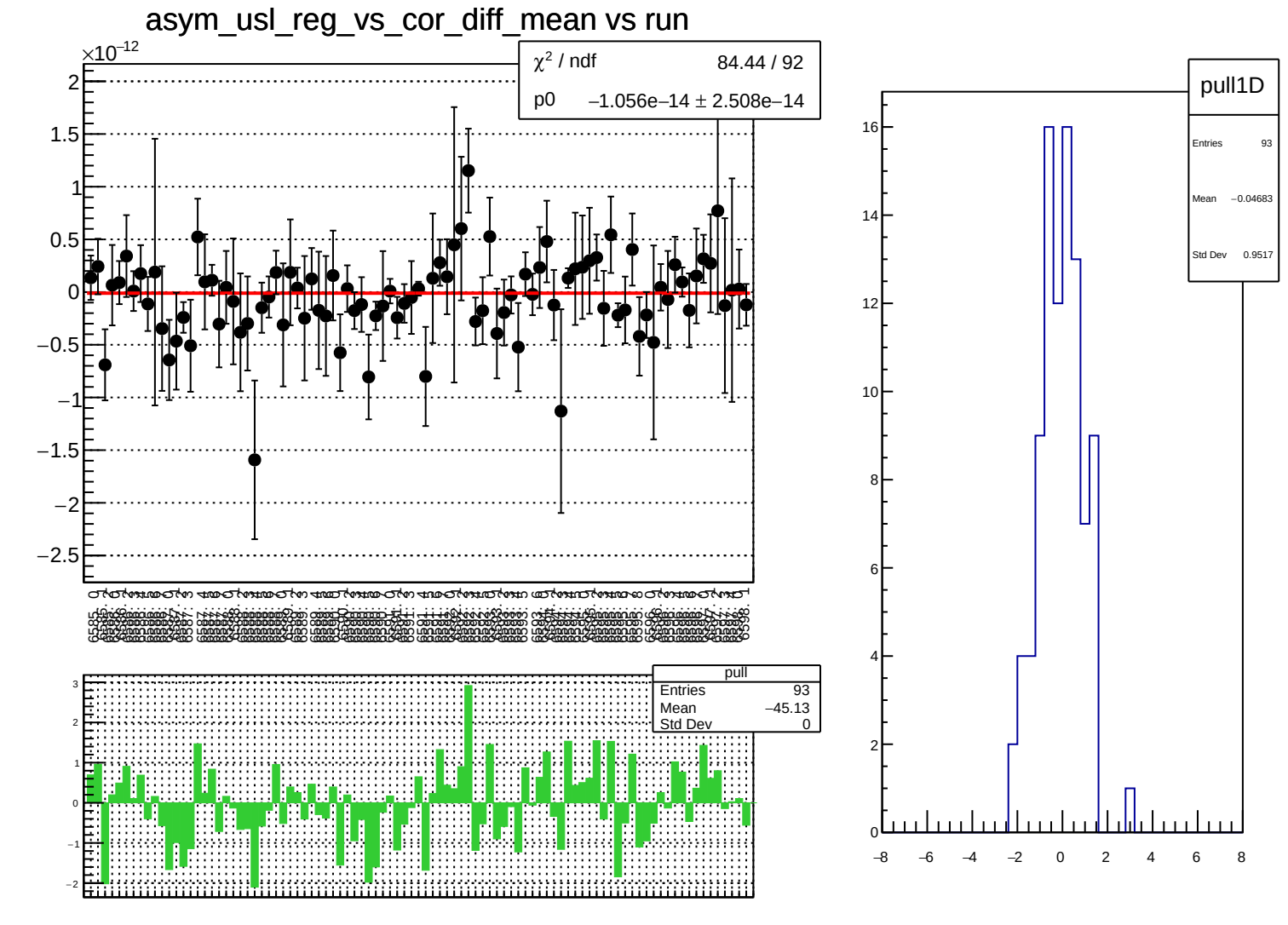

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 102.1 / 92
p0 692.1 ± 1580
pull
Entries 93
Mean 457.9
Std Dev 0
pull1D
Entries 93
Mean 0.001276
Std Dev 1.048

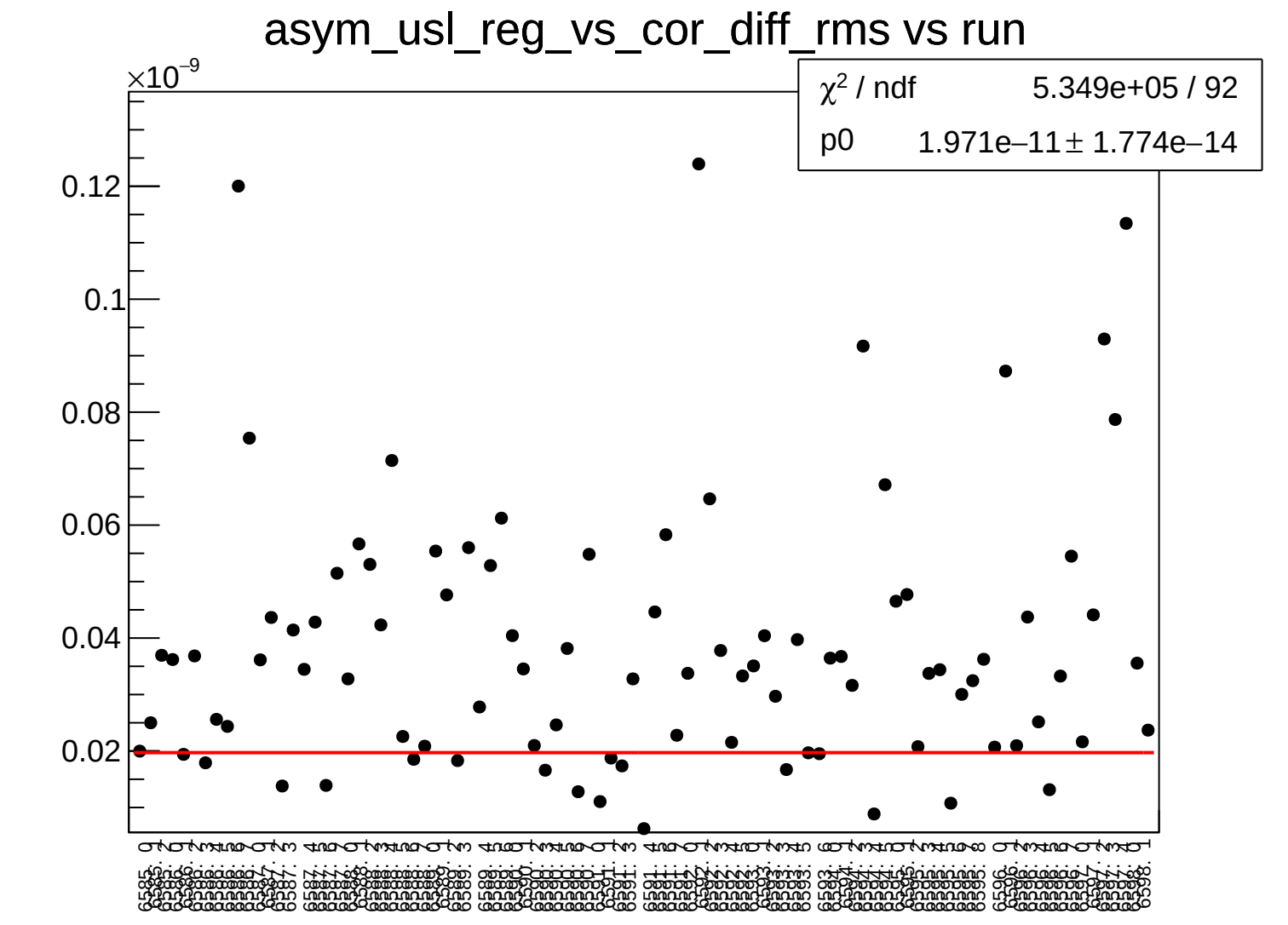

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1.26e+04 / 92
p0 1481 ± 1.117
1900
1800
1700
1600
1500
1400
1300

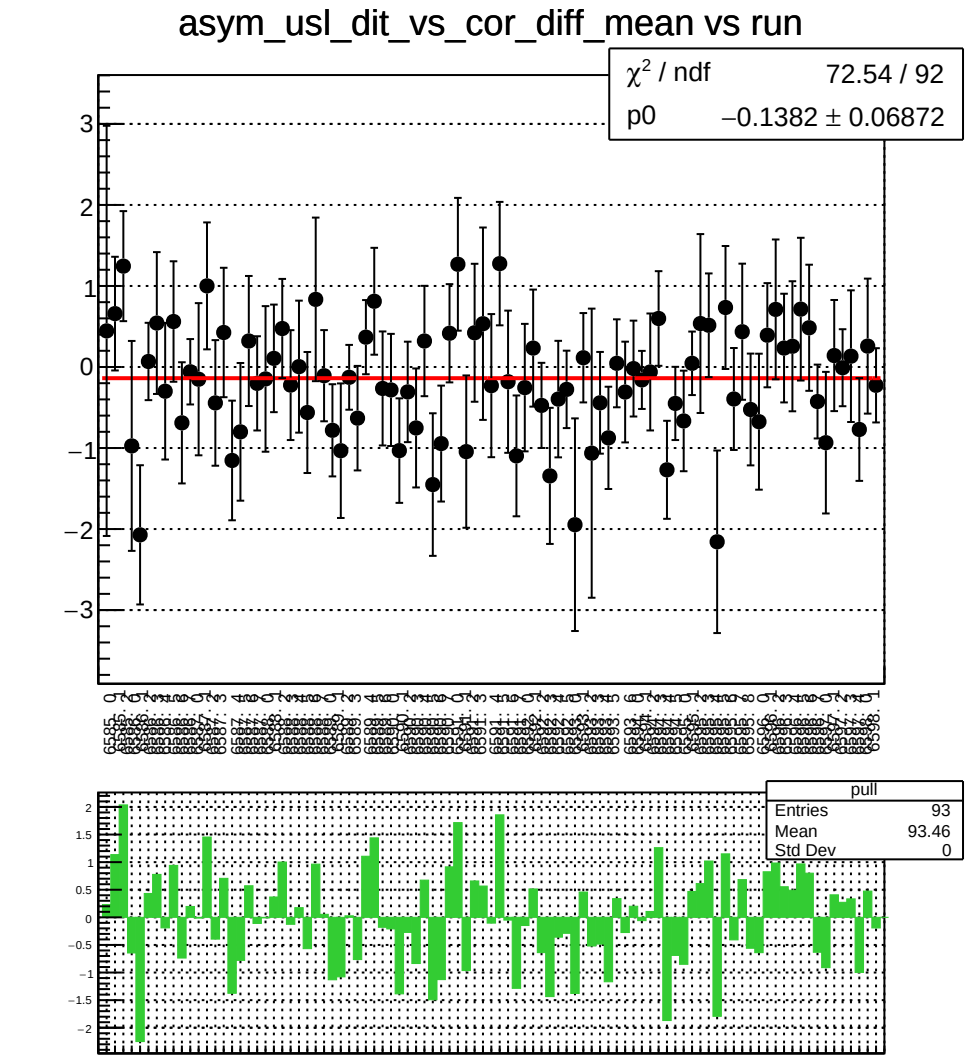

asym_usl_mean vs run
χ² / ndf 106.5 / 92
p0 −1634 ± 1980
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 383.7
Std Dev 0
2
1
0
−1
−2
−3

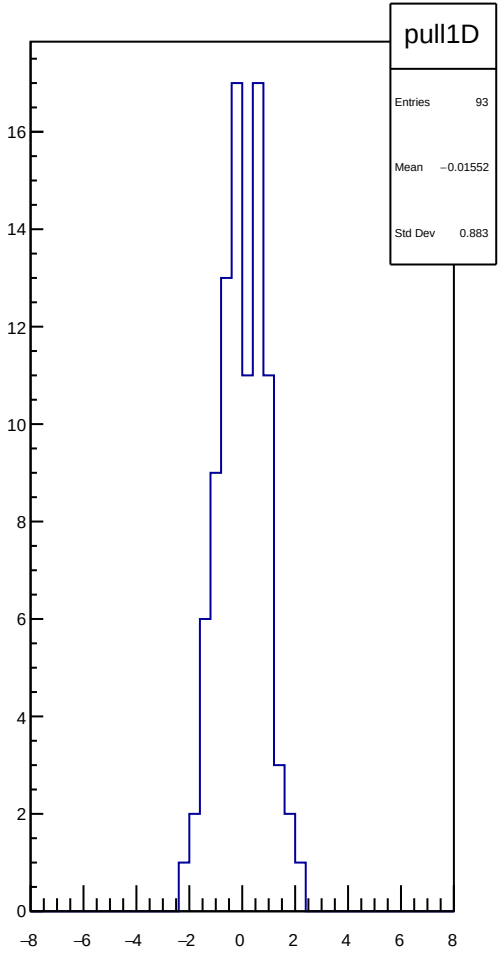

pull1D
Entries 93
Mean 0.004203
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

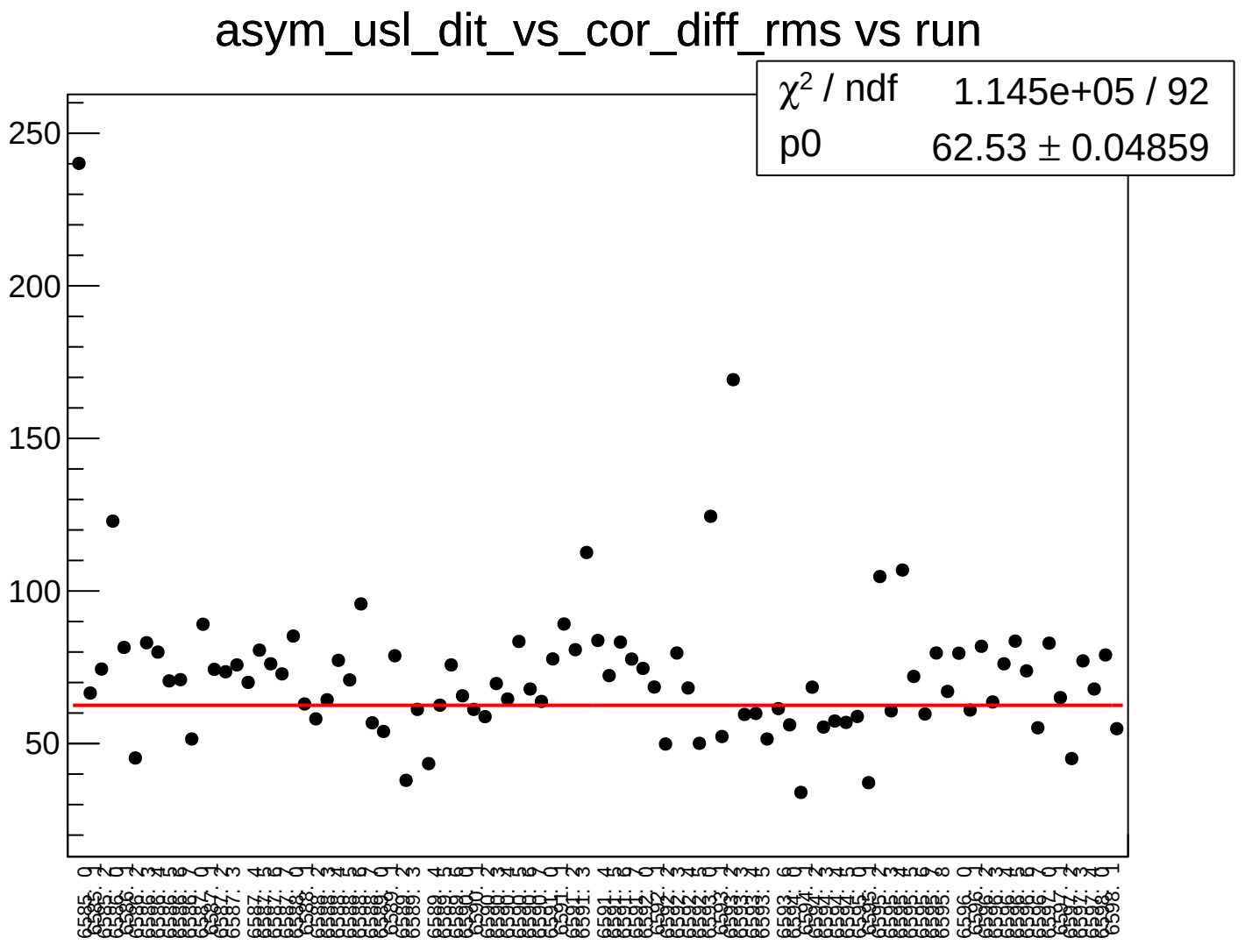

asym_usl_rms vs run
χ² / ndf 6778 / 92
p0 1859 ± 1.4
2200
2100
2000
1900
1800
1700

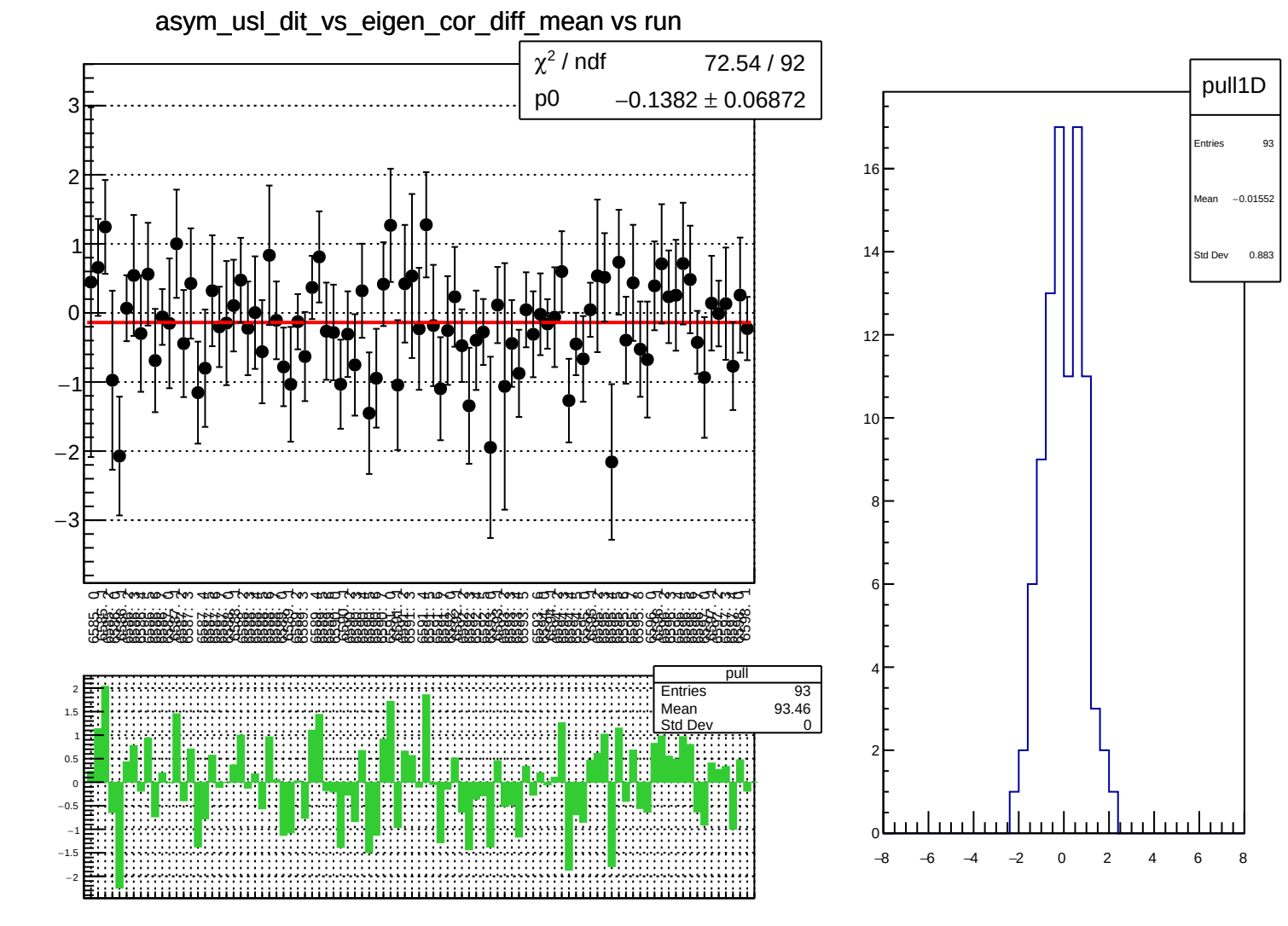

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.44 / 92
p0 −1.056e−14 ± 2.508e−14
pull
Entries 93
Mean −45.13
Std Dev 0
pull1D
Entries 93
Mean −0.04683
Std Dev 0.9517

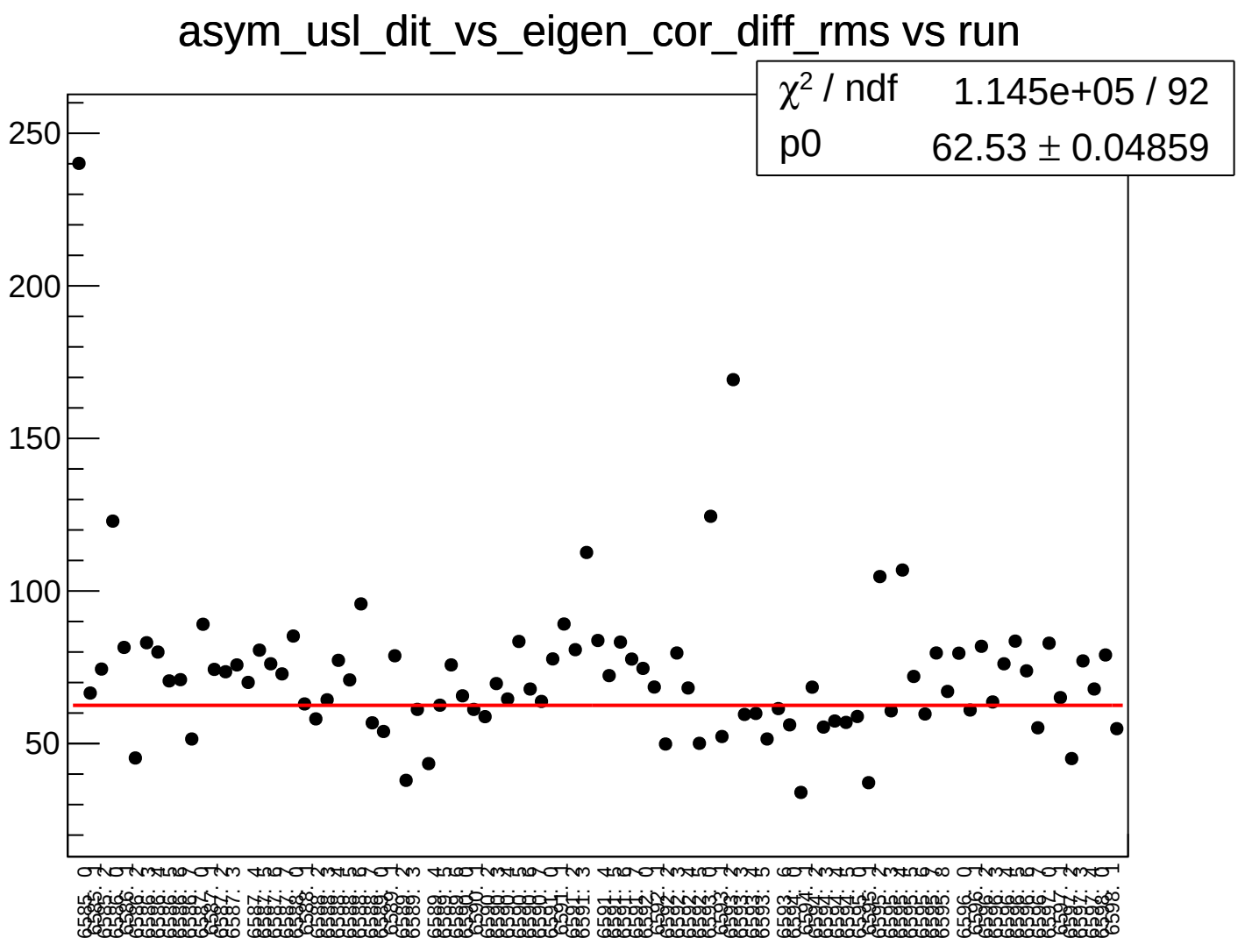

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.349e+05 / 92
p0 1.971e−11 ± 1.774e−14
0.12
0.1
0.08
0.06
0.04
0.02

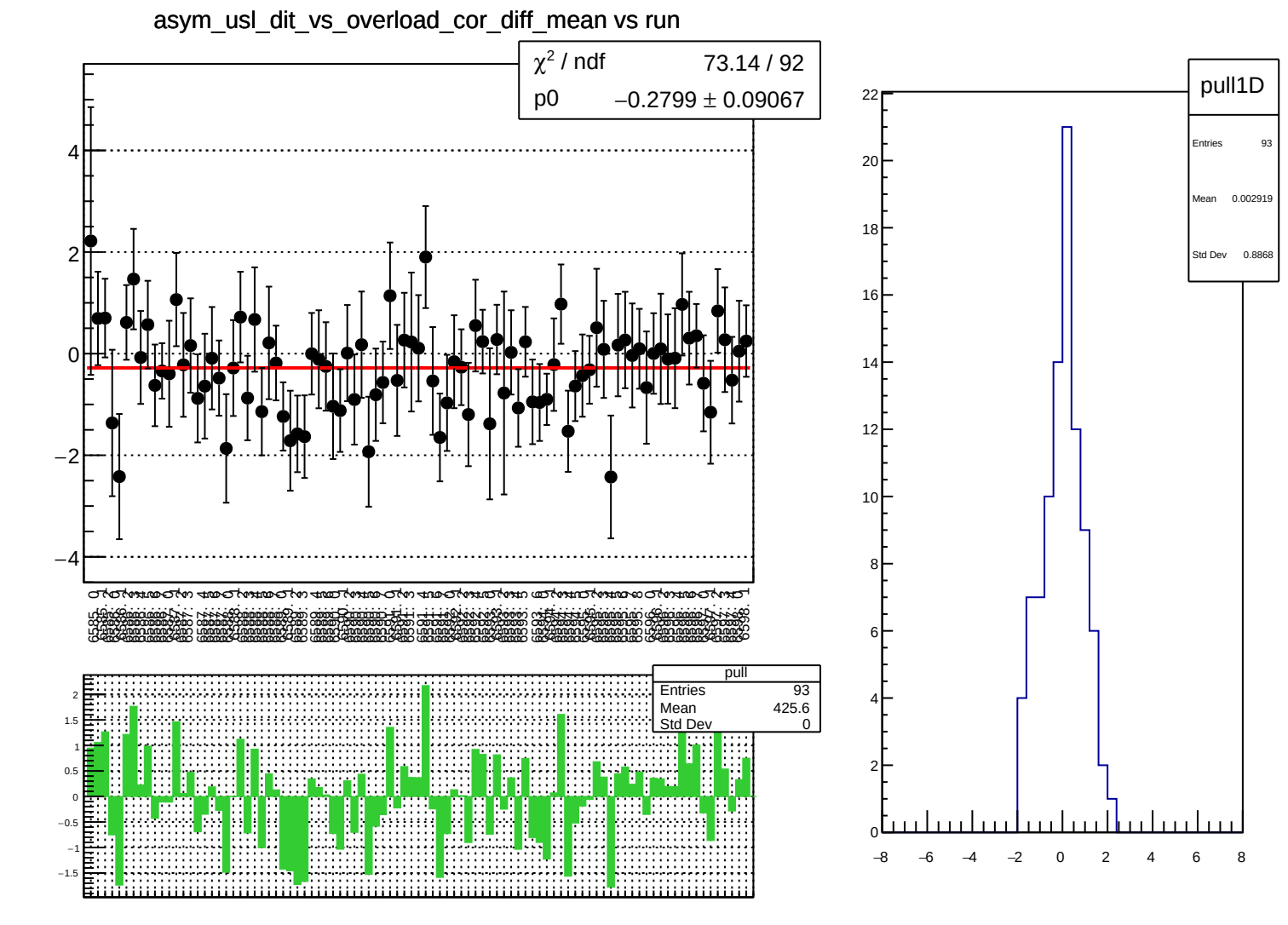

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 72.54 / 92
p0 −0.1382 ± 0.06872
pull
Entries 93
Mean 93.46
Std Dev 0

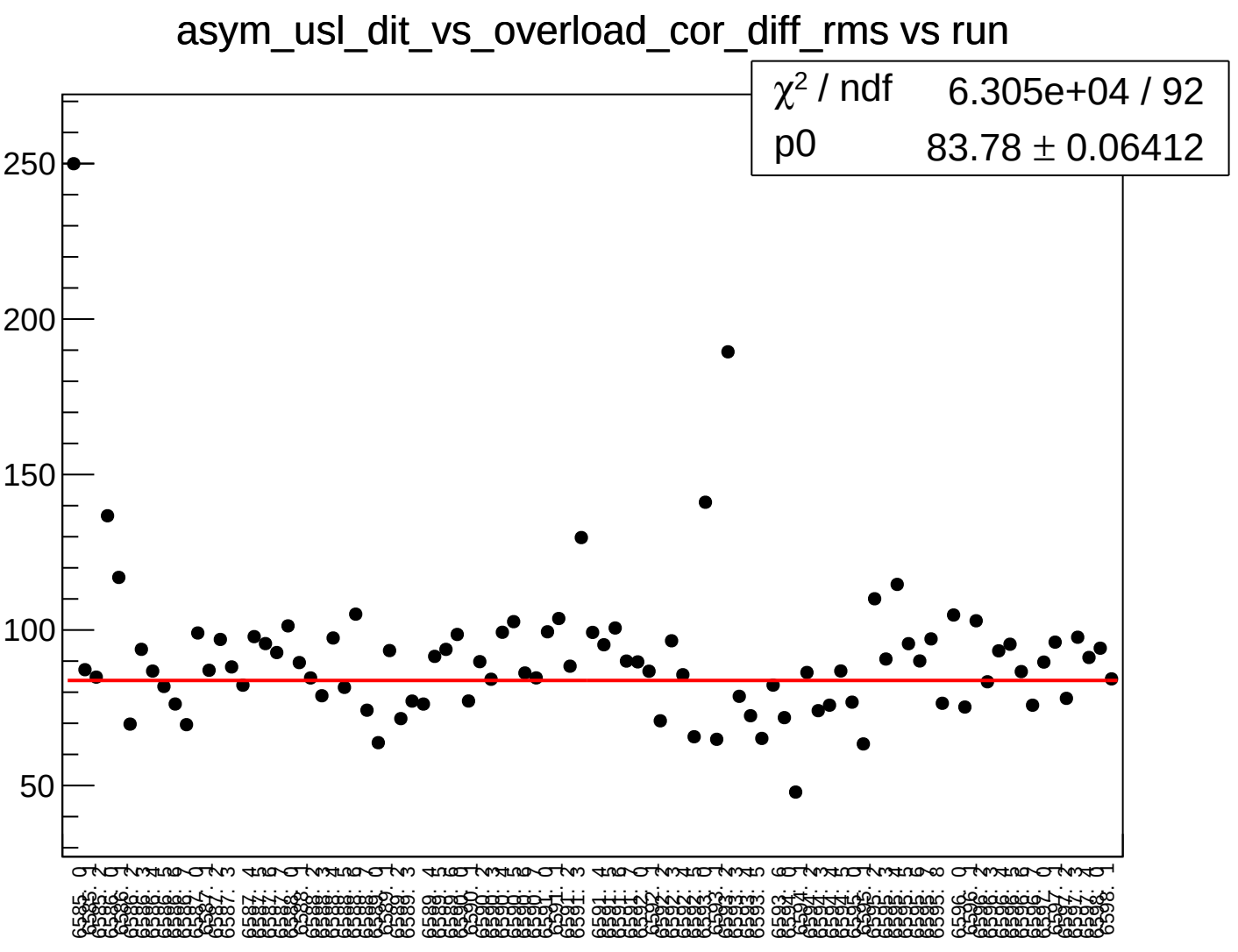

pull1D
Entries 93
Mean −0.01552
Std Dev 0.883

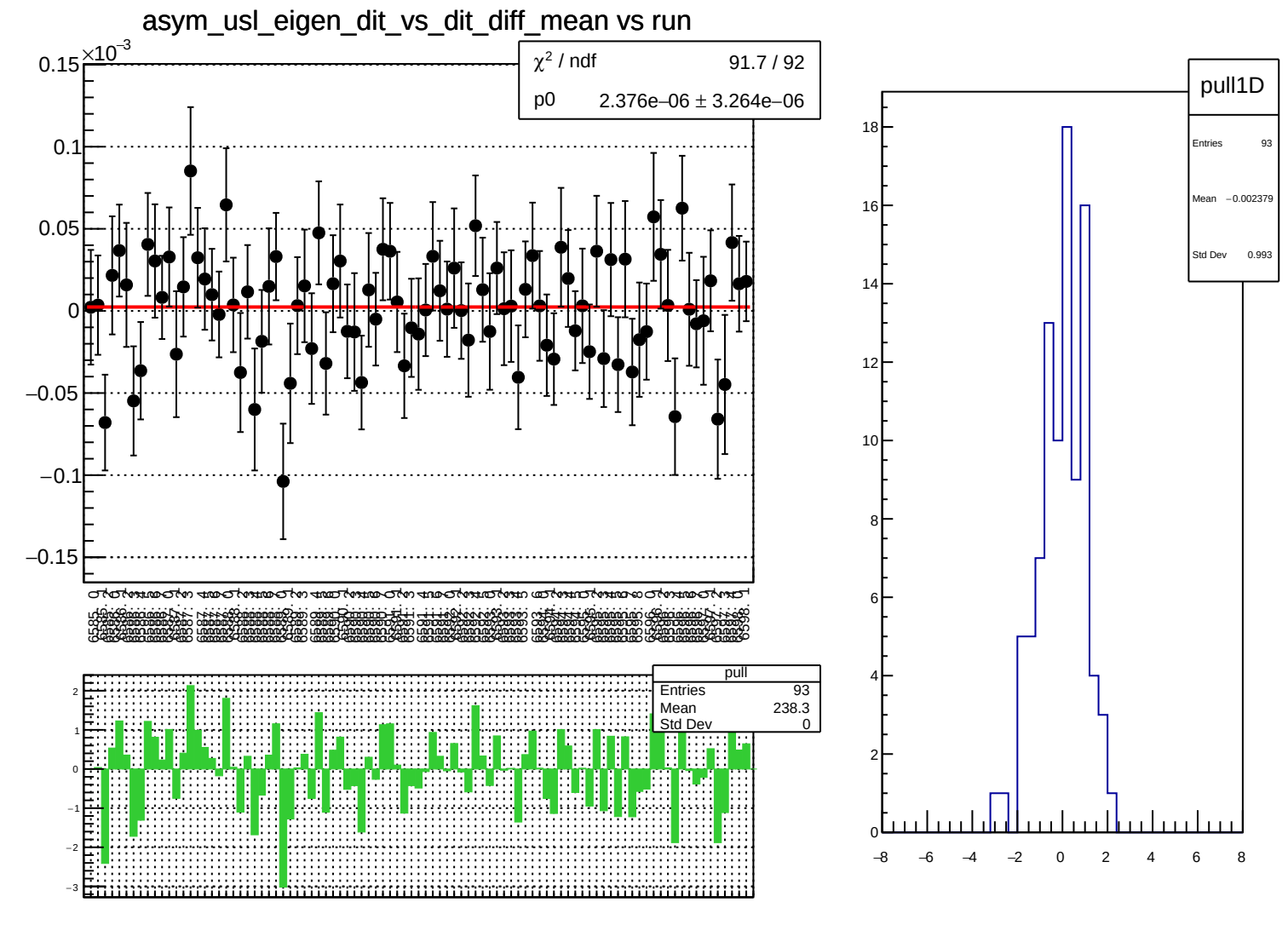

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.145e+05 / 92
p0 62.53 ± 0.04859
250
200
150
100
50

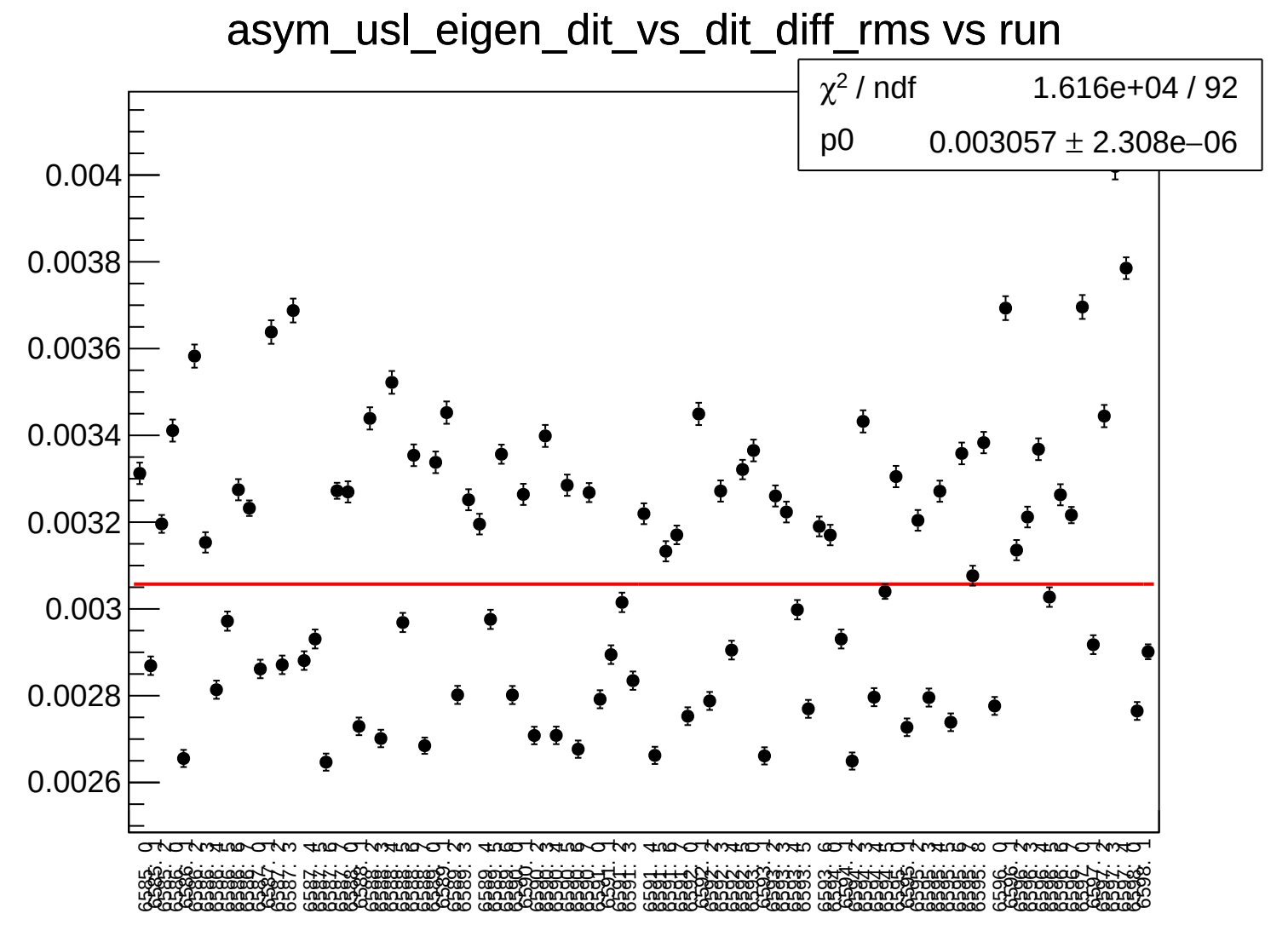

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.54 / 92
p0 −0.1382 ± 0.06872
pull
Entries 93
Mean 93.46
Std Dev 0
pull1D
Entries 93
Mean −0.01552
Std Dev 0.883

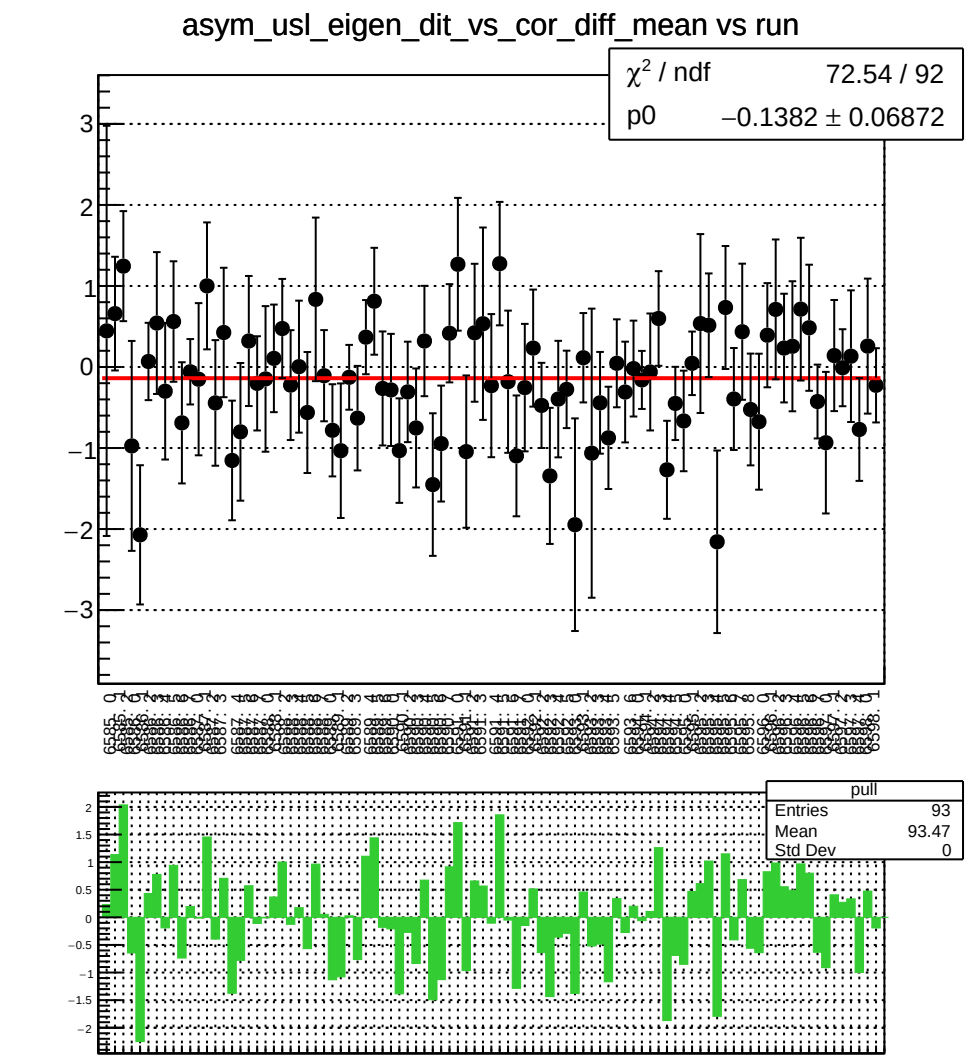

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.145e+05 / 92
p0 62.53 ± 0.04859
250
200
150
100
50

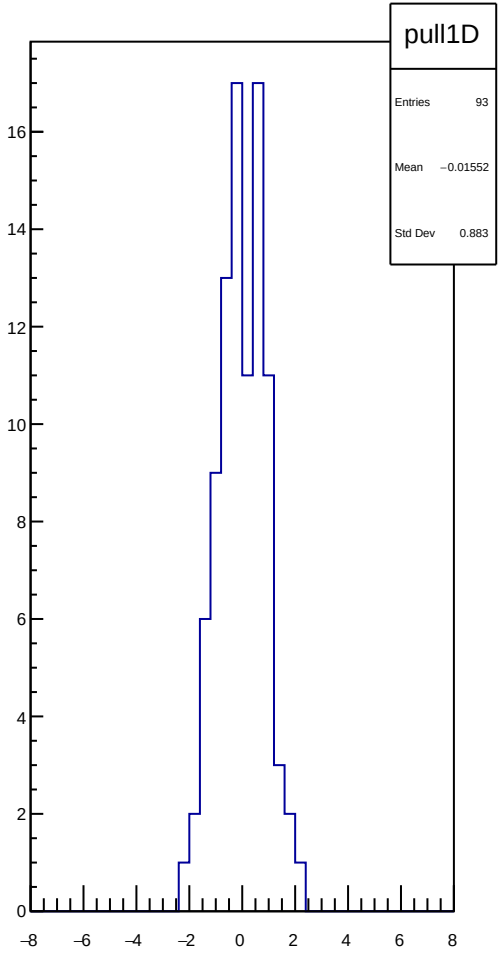

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 73.14 / 92
p0 −0.2799 ± 0.09067
pull
Entries 93
Mean 425.6
Std Dev 0
pull1D
Entries 93
Mean 0.002919
Std Dev 0.8868

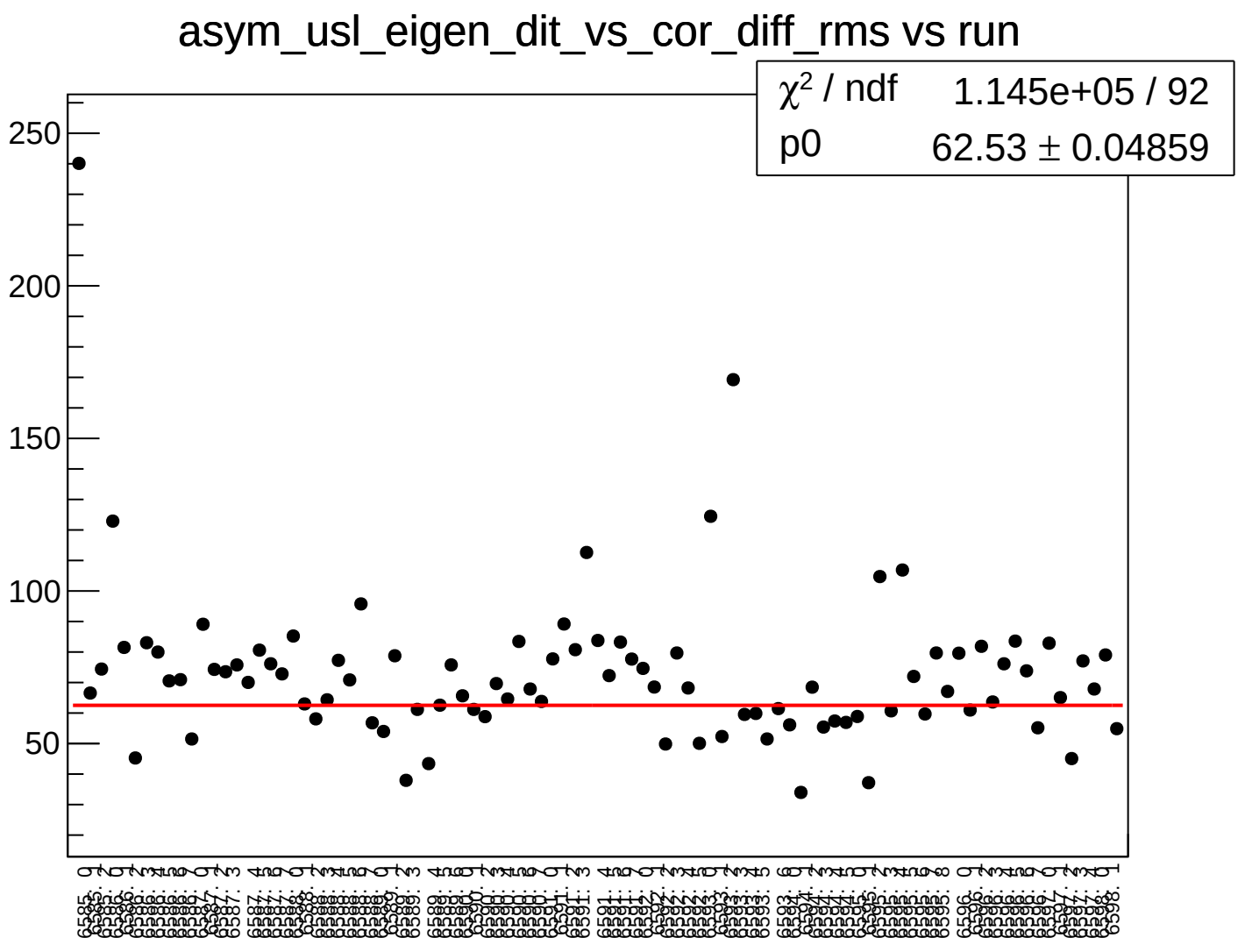

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.305e+04 / 92
p0 83.78 ± 0.06412
250
200
150
100
50

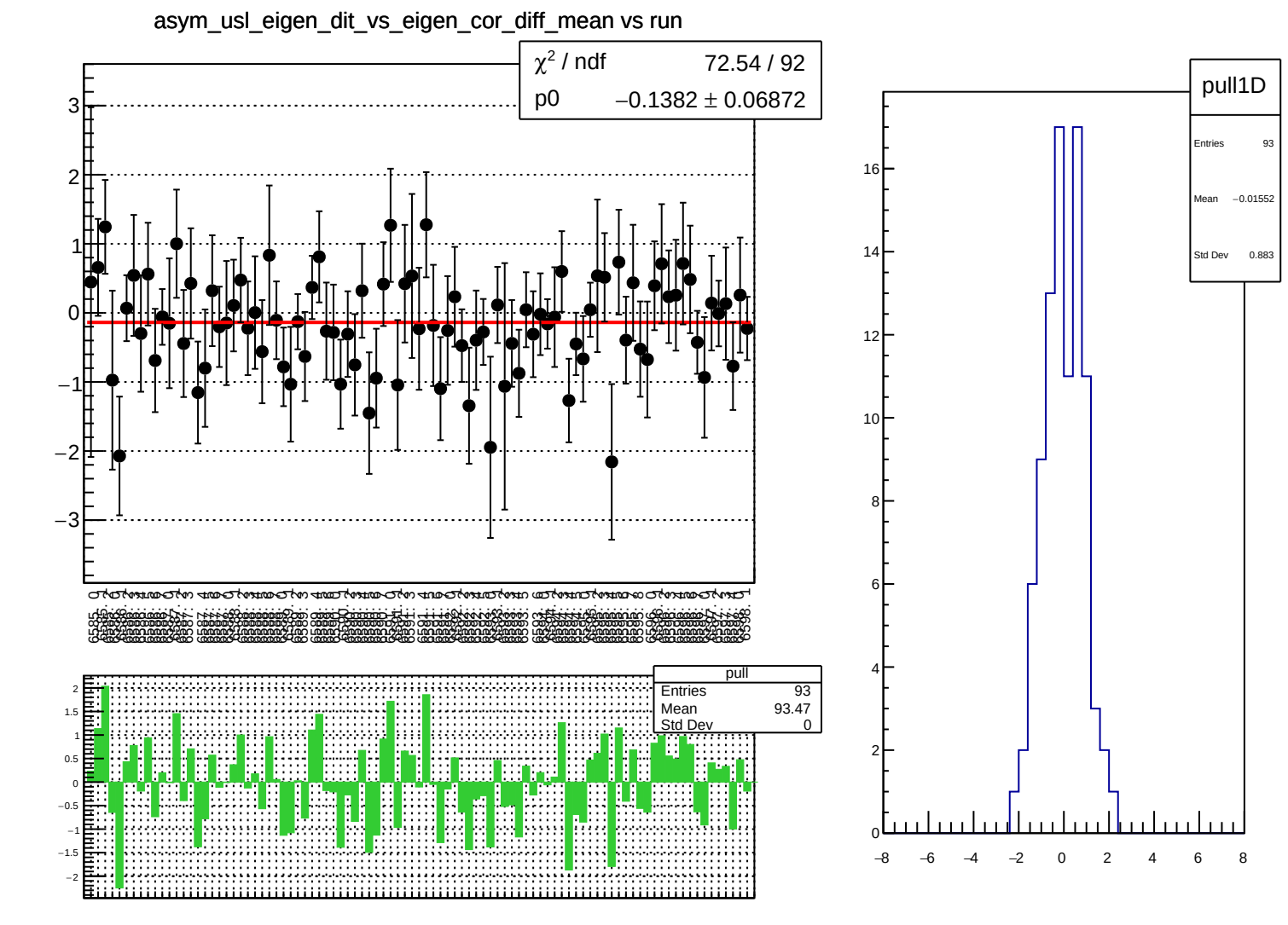

asym_usl_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 91.7 / 92
p0 2.376e−06 ± 3.264e−06
×10⁻³
pull
Entries 93
Mean 238.3
Std Dev 0
pull1D
Entries 93
Mean −0.002379
Std Dev 0.993

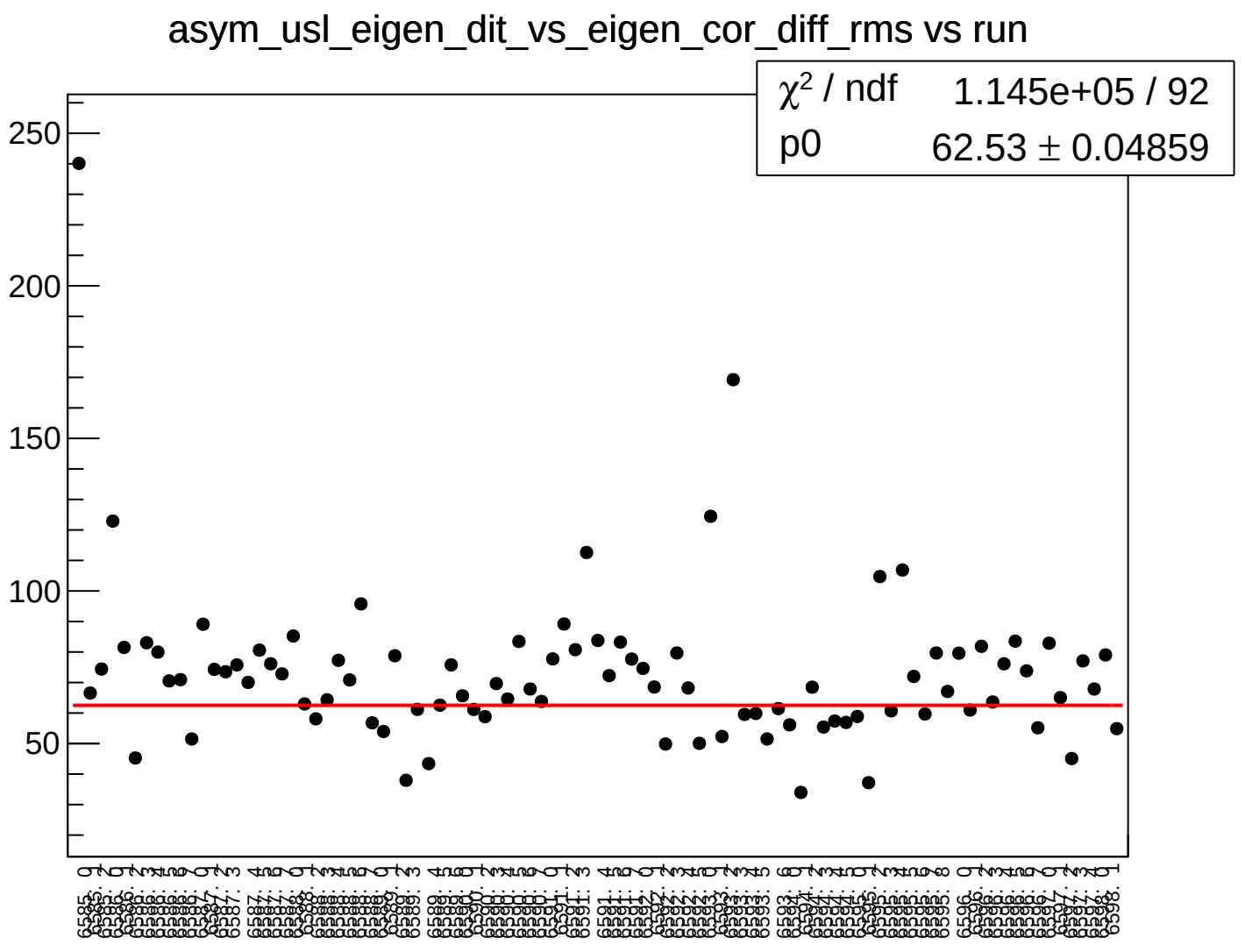

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.616e+04 / 92
p0 0.003057 ± 2.308e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

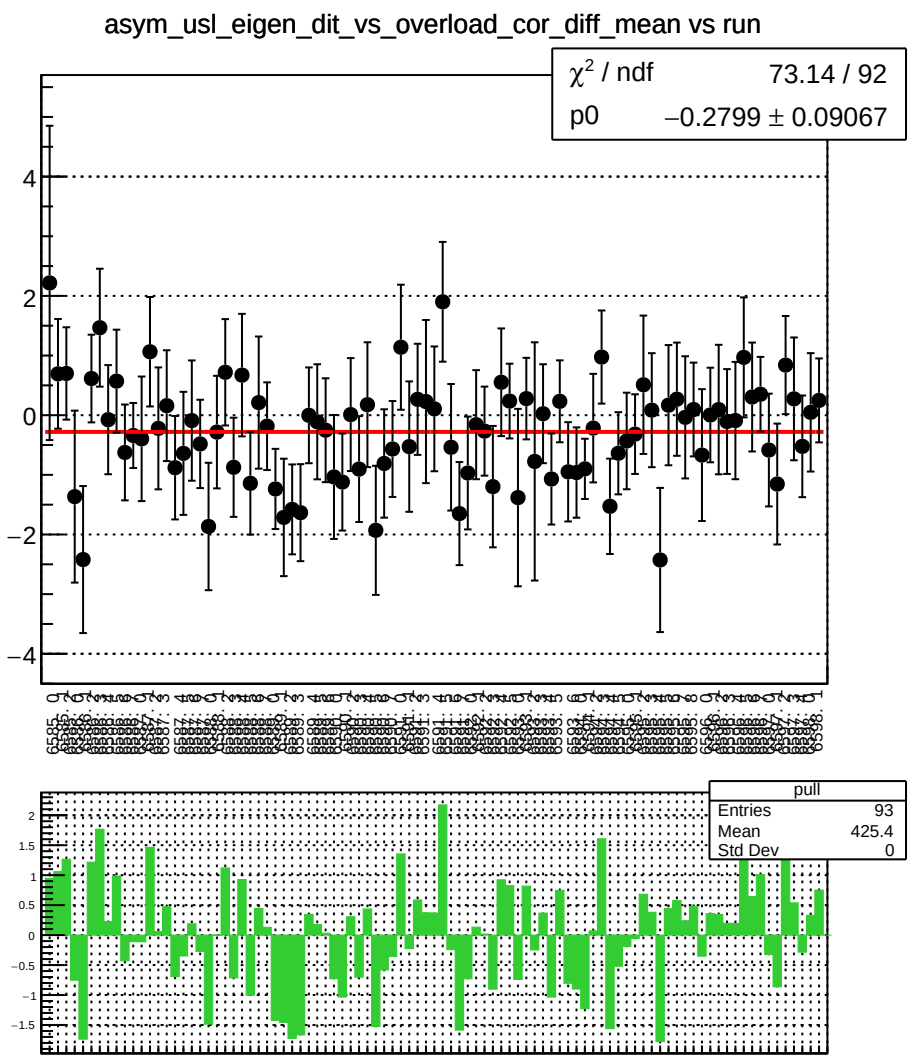

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.54 / 92
p0 −0.1382 ± 0.06872
pull
Entries 93
Mean 93.47
Std Dev 0

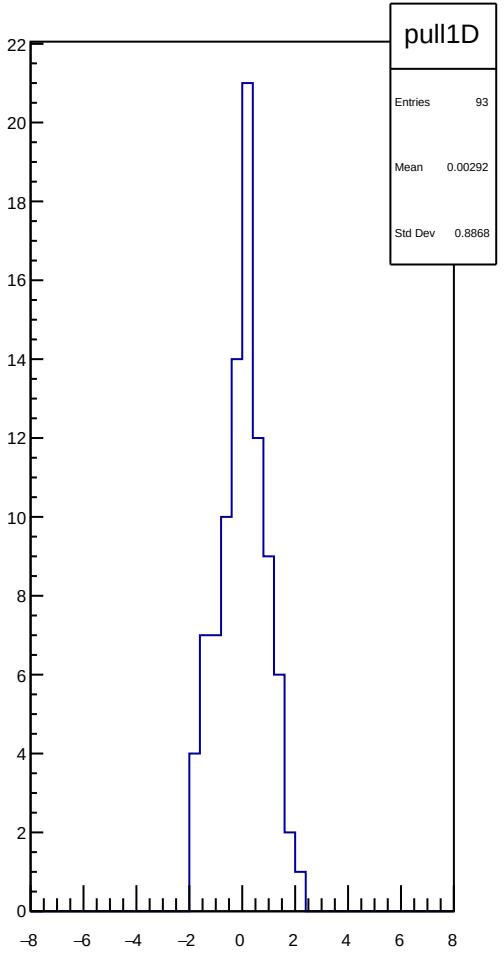

pull1D
Entries 93
Mean −0.01552
Std Dev 0.883

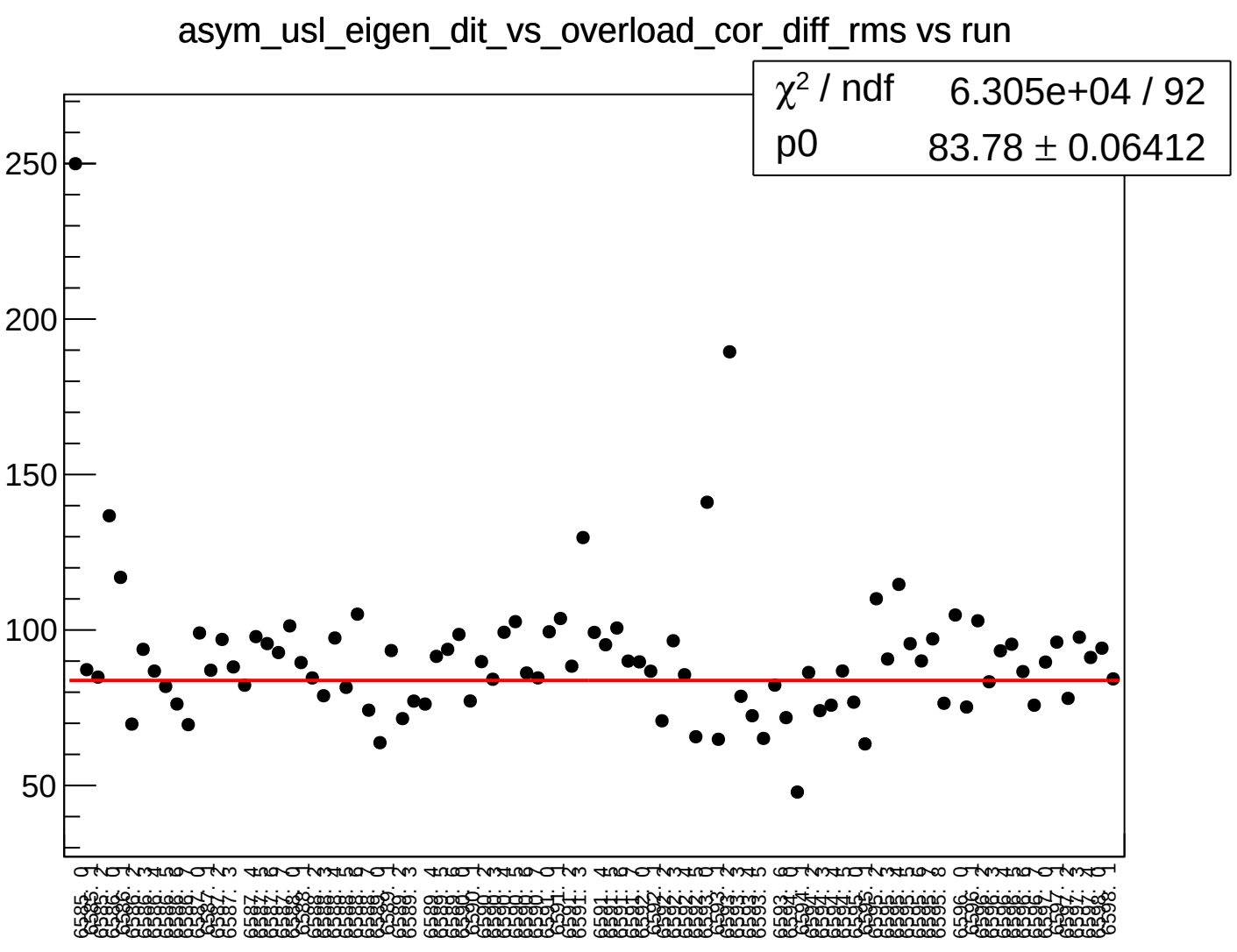

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.145e+05 / 92
p0 62.53 ± 0.04859
250
200
150
100
50

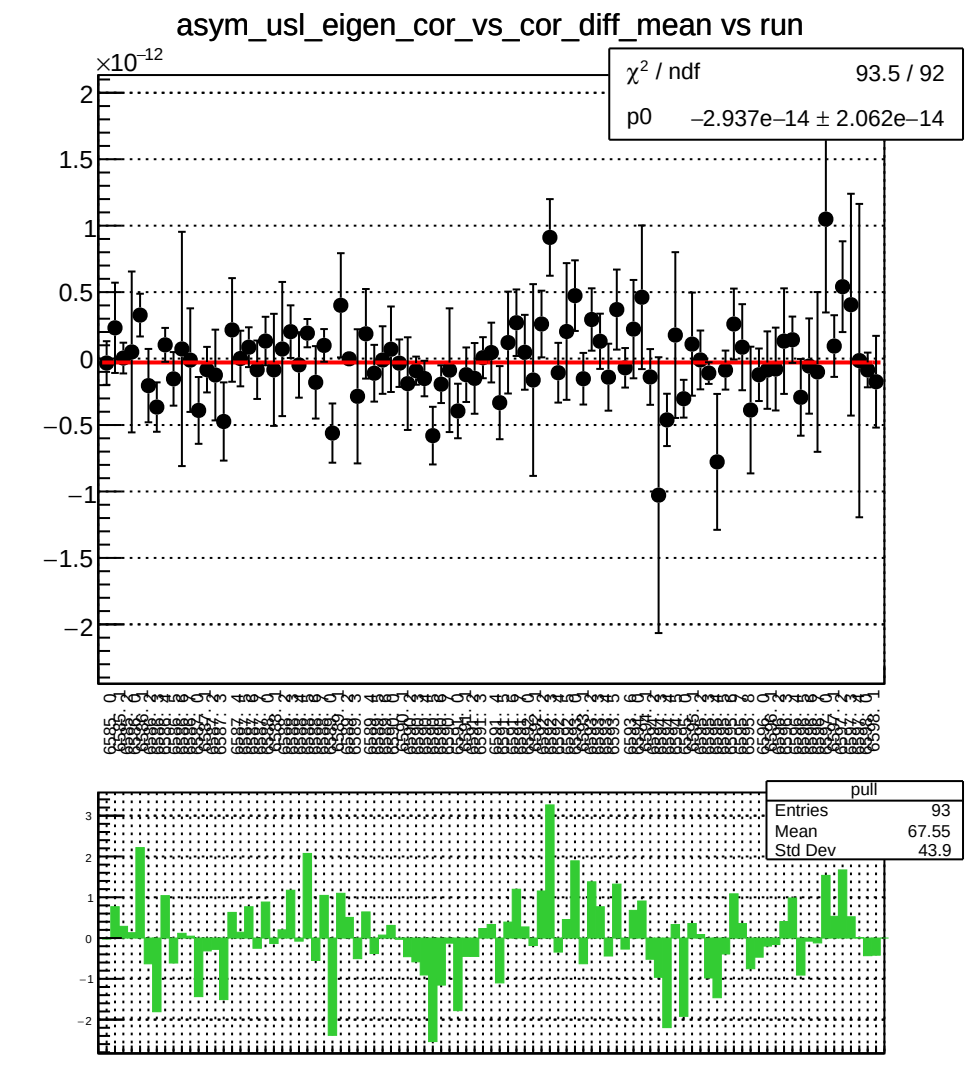

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.54 / 92
p0 −0.1382 ± 0.06872
pull
Entries 93
Mean 93.47
Std Dev 0
pull1D
Entries 93
Mean −0.01552
Std Dev 0.883

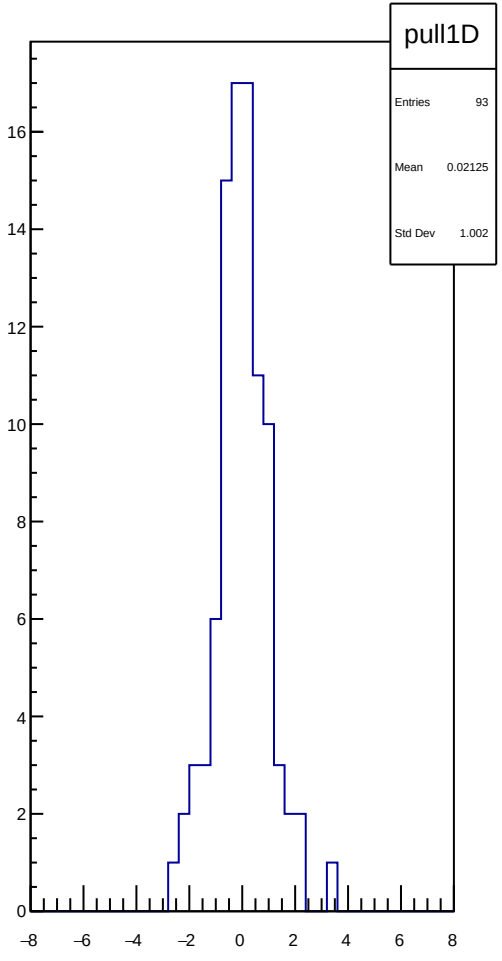

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.145e+05 / 92
p0 62.53 ± 0.04859
250
200
150
100
50

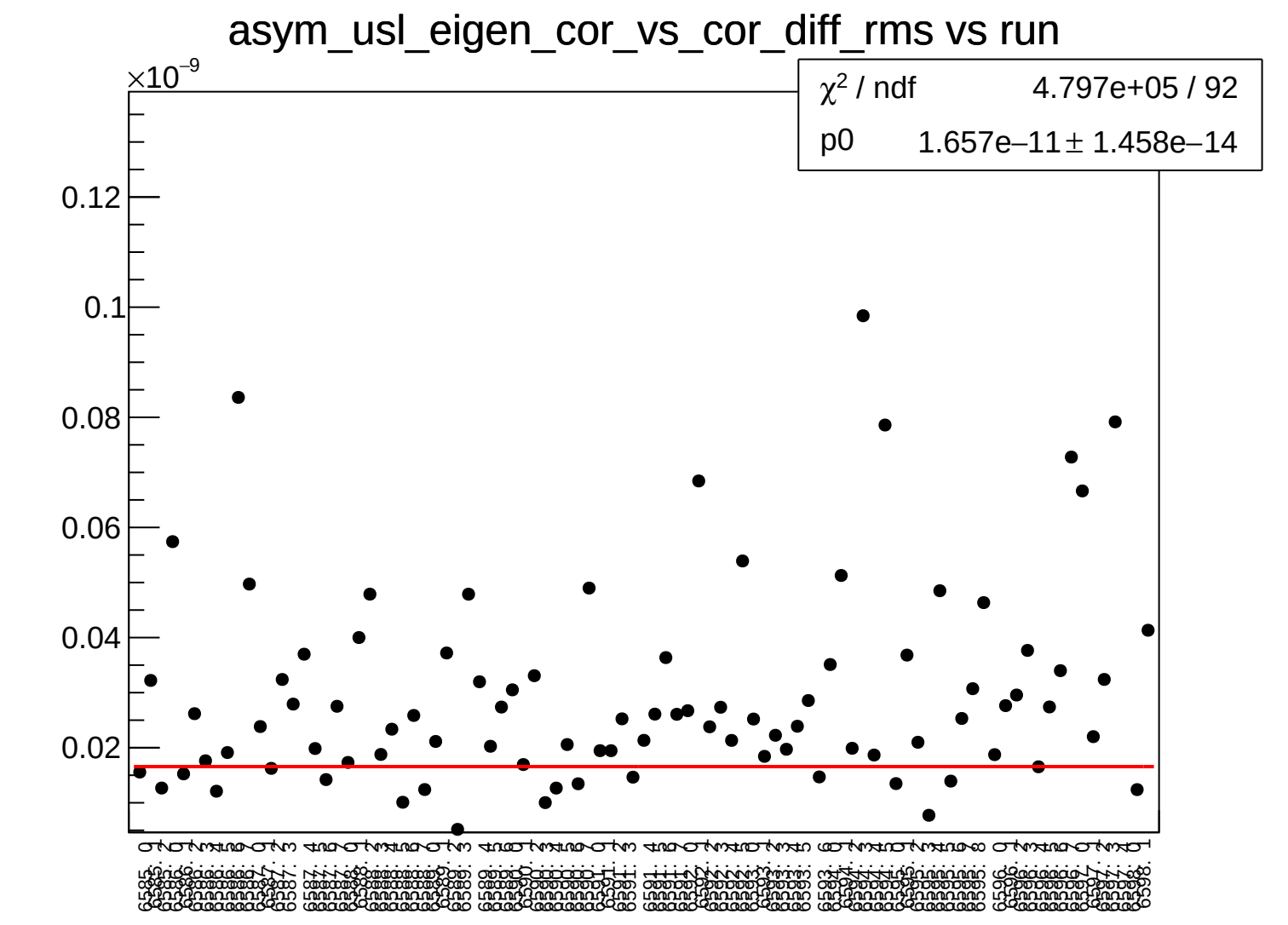

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 73.14 / 92
p0 −0.2799 ± 0.09067
pull
Entries 93
Mean 425.4
Std Dev 0

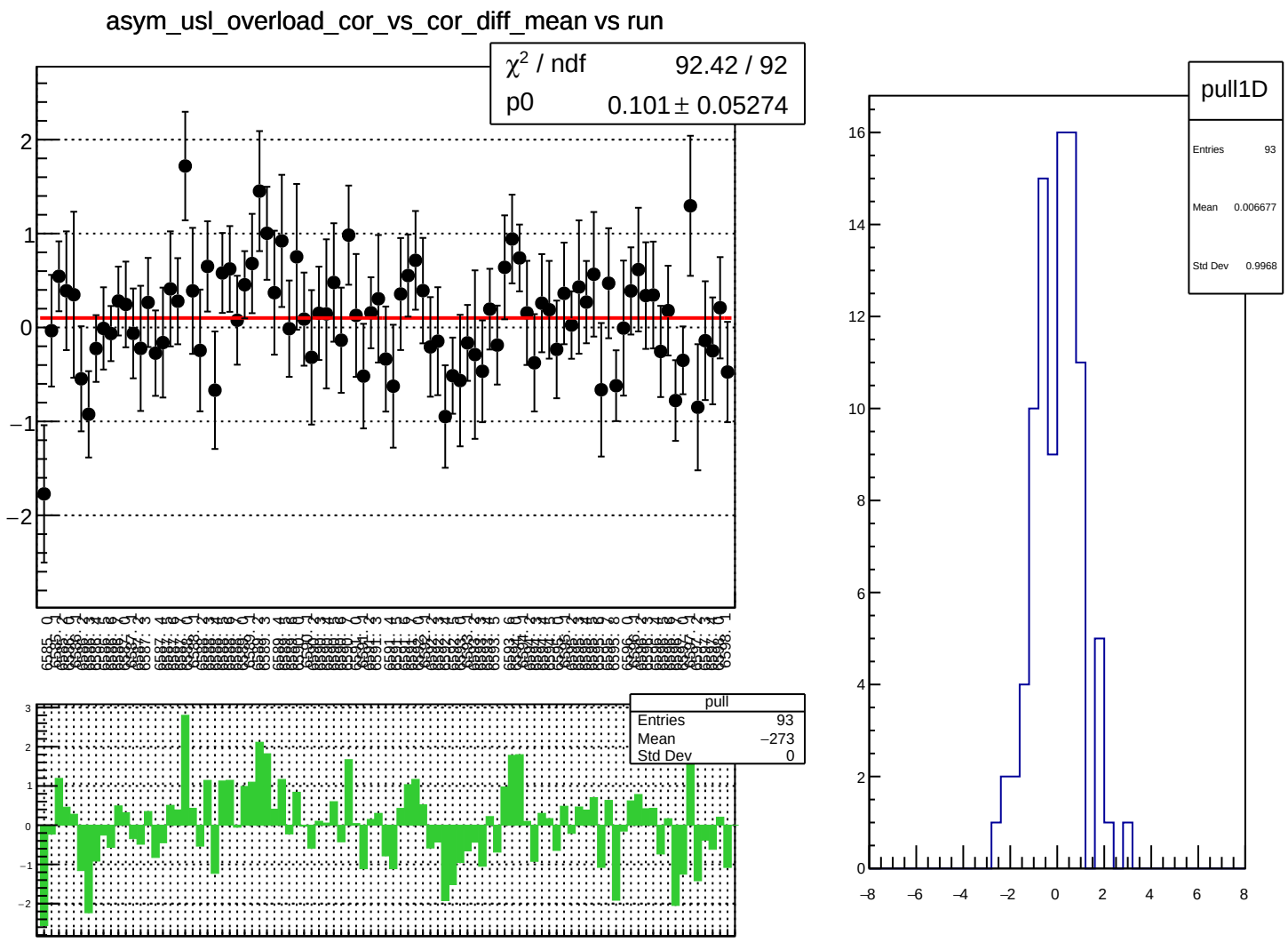

pull1D
Entries 93
Mean 0.00292
Std Dev 0.8868

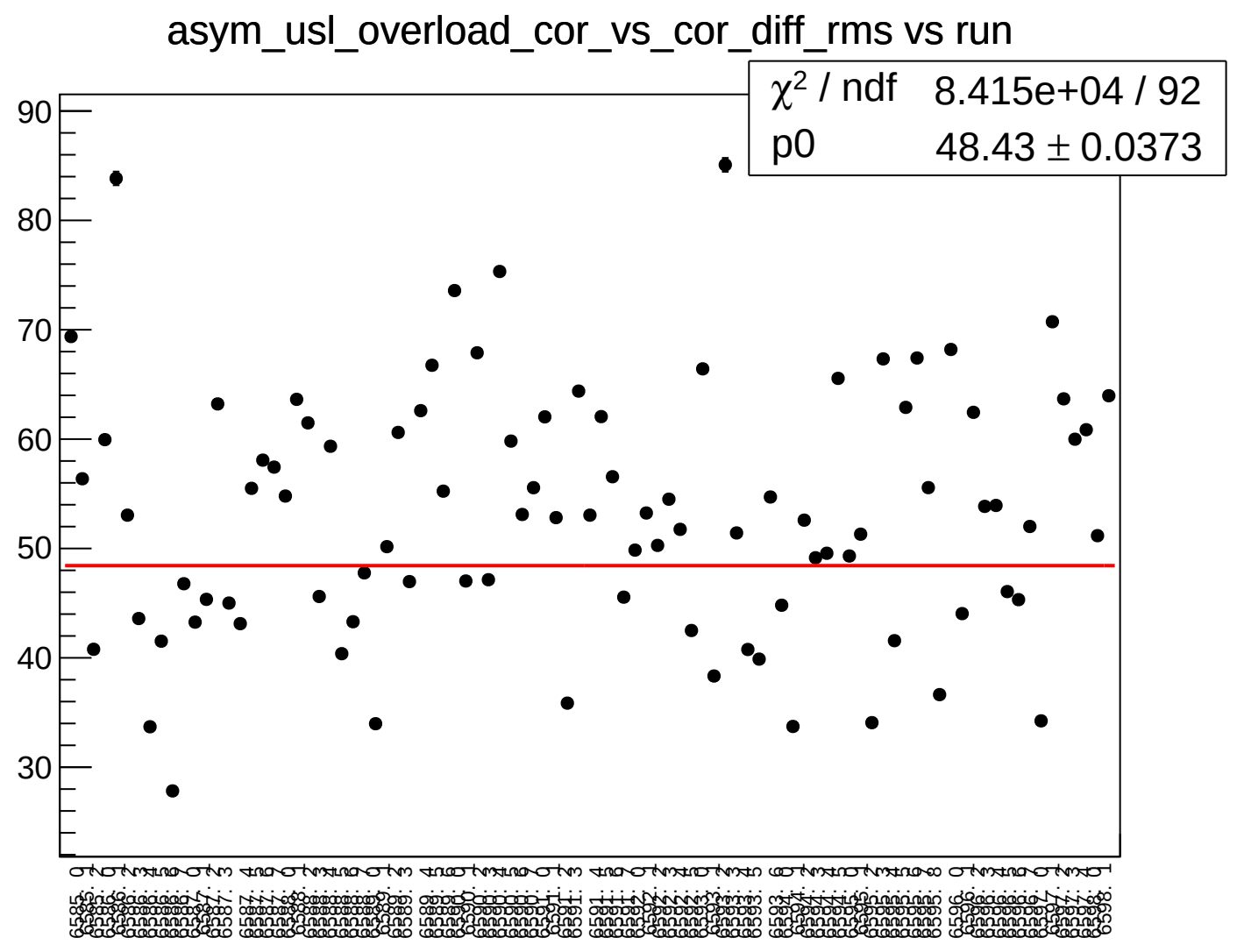

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.305e+04 / 92
p0 83.78 ± 0.06412
250
200
150
100
50

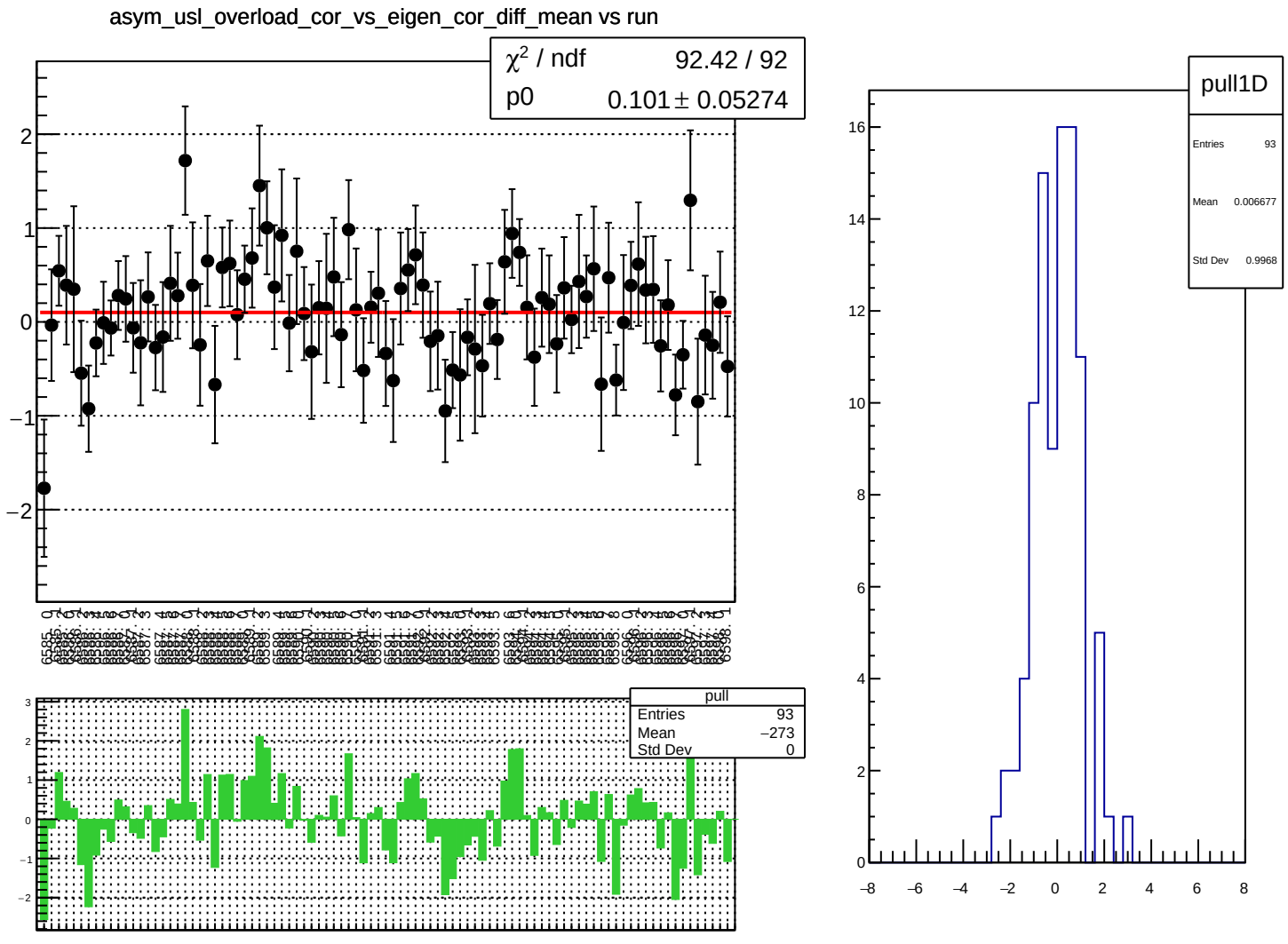

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.5 / 92
p0 −2.937e−14 ± 2.062e−14
pull
Entries 93
Mean 67.55
Std Dev 43.9

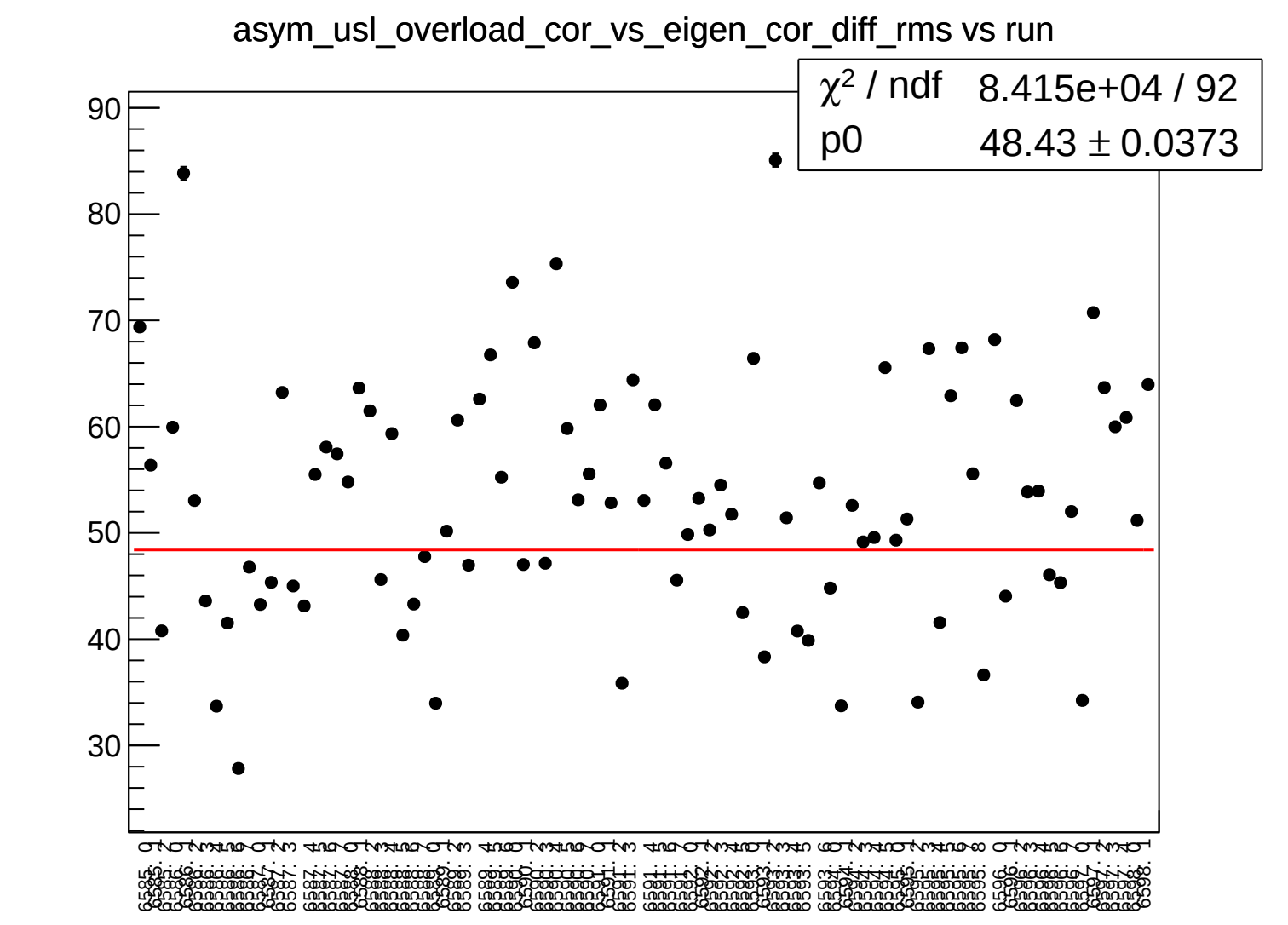

pull1D
Entries 93
Mean 0.02125
Std Dev 1.002

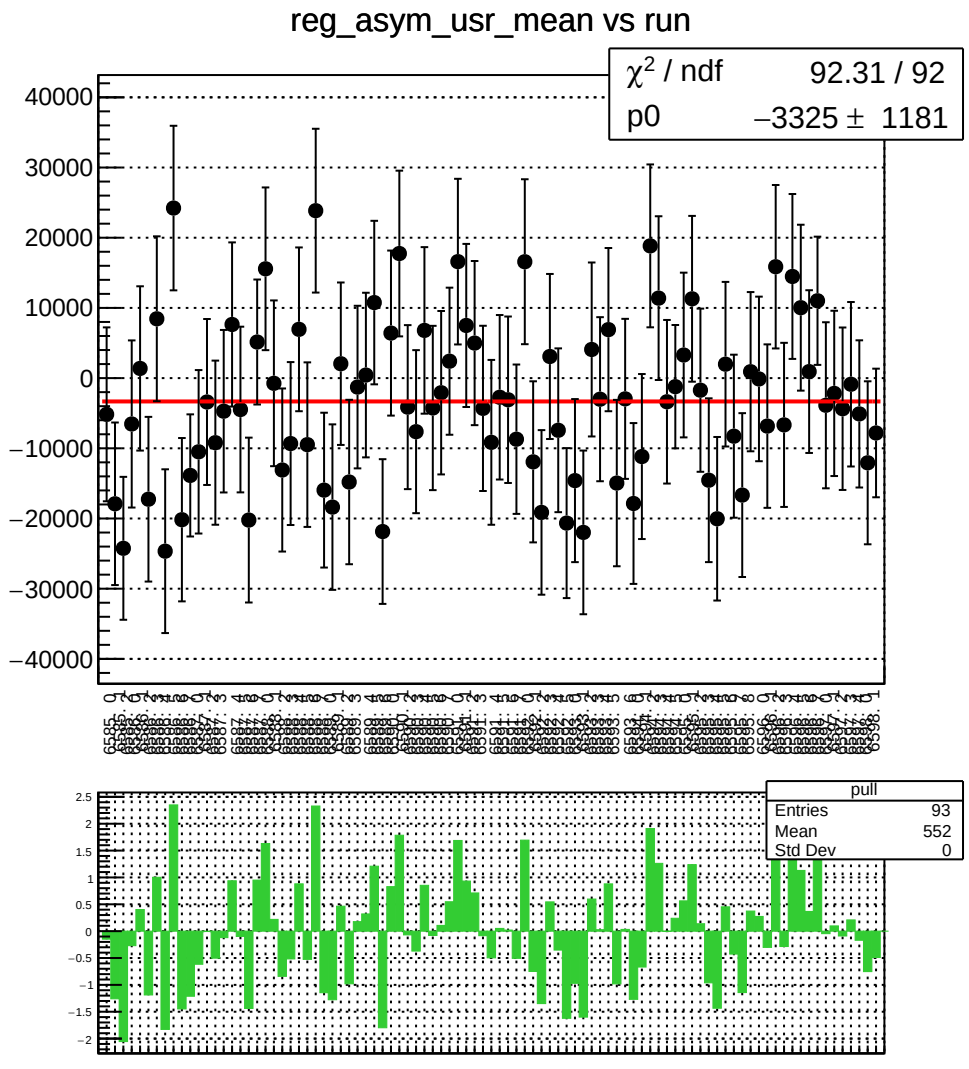

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.797e+05 / 92
p0 1.657e−11 ± 1.458e−14
0.12
0.1
0.08
0.06
0.04
0.02

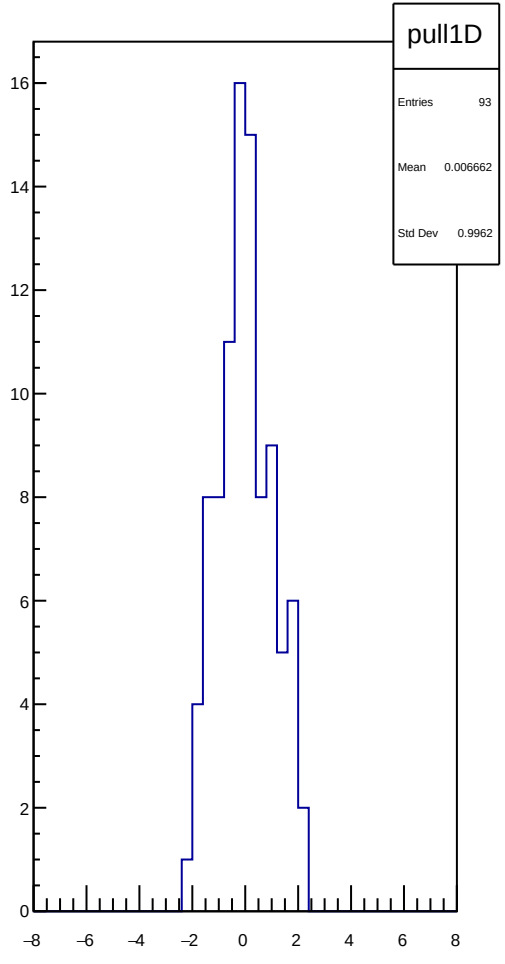

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 92.42 / 92
p0 0.101 ± 0.05274
pull
Entries 93
Mean −273
Std Dev 0
pull1D
Entries 93
Mean 0.006677
Std Dev 0.9968

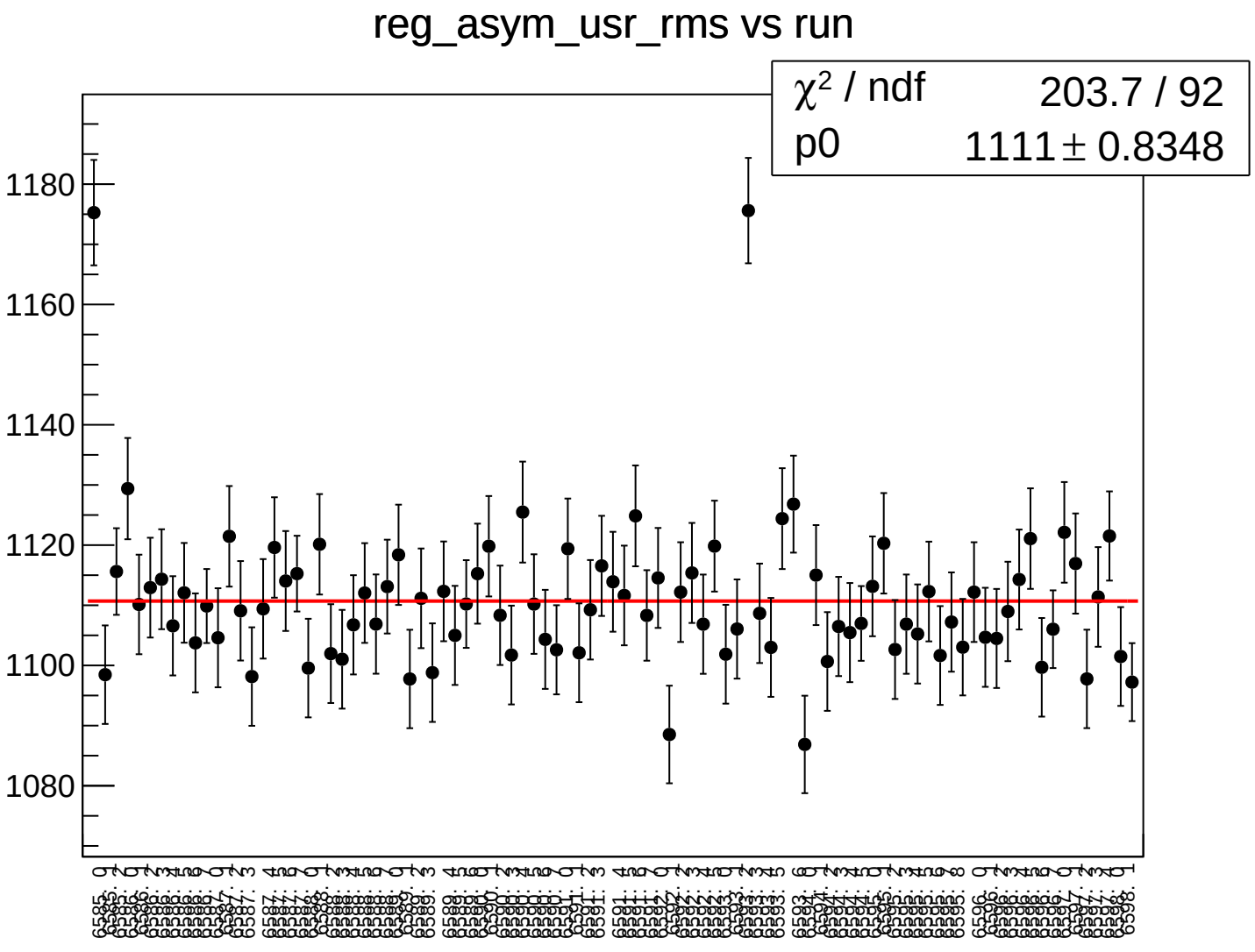

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.415e+04 / 92
p0 48.43 ± 0.0373
90
80
70
60
50
40
30

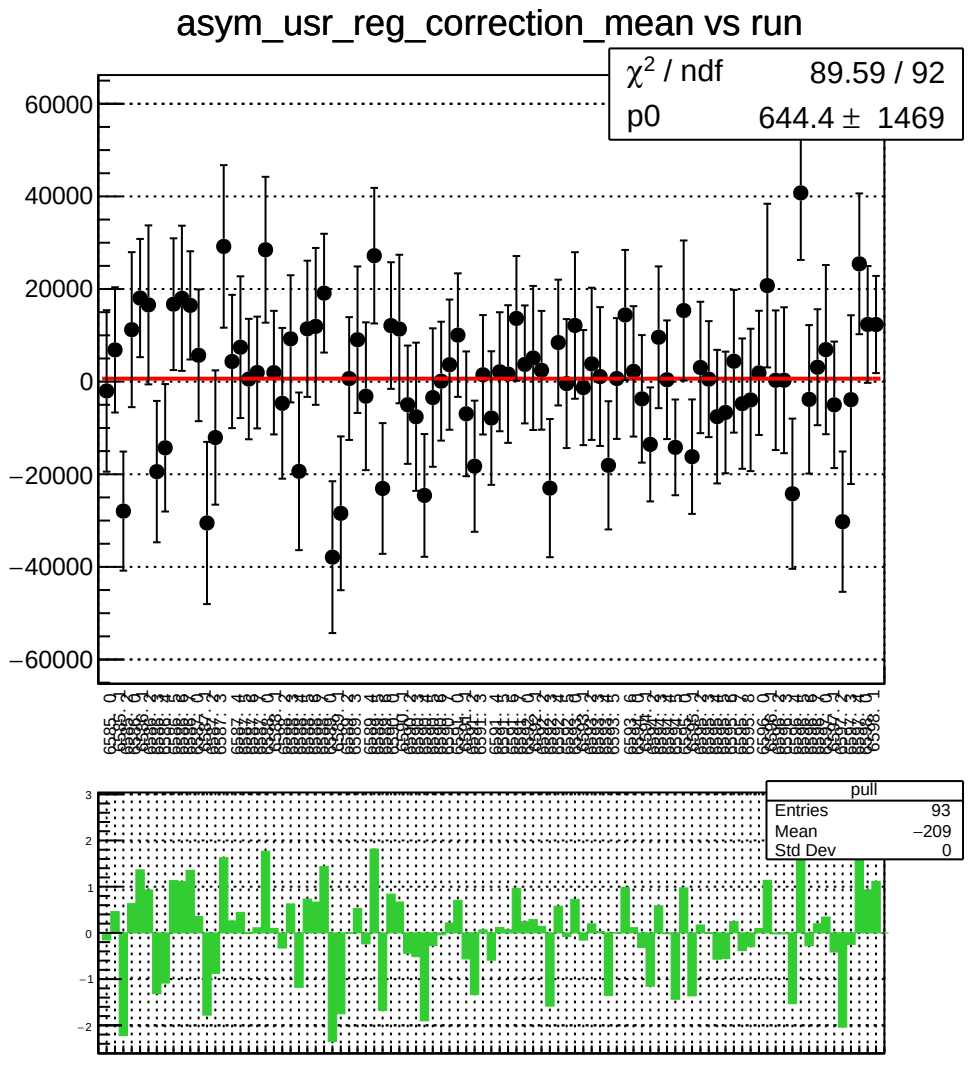

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.42 / 92
p0 0.101 ± 0.05274
pull
Entries 93
Mean −273
Std Dev 0
pull1D
Entries 93
Mean 0.006677
Std Dev 0.9968

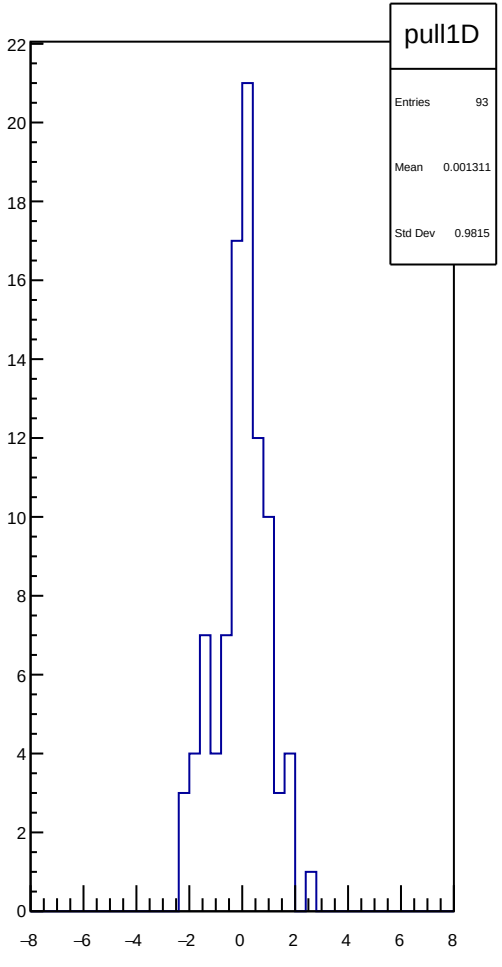

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.415e+04 / 92
p0 48.43 ± 0.0373
90
80
70
60
50
40
30

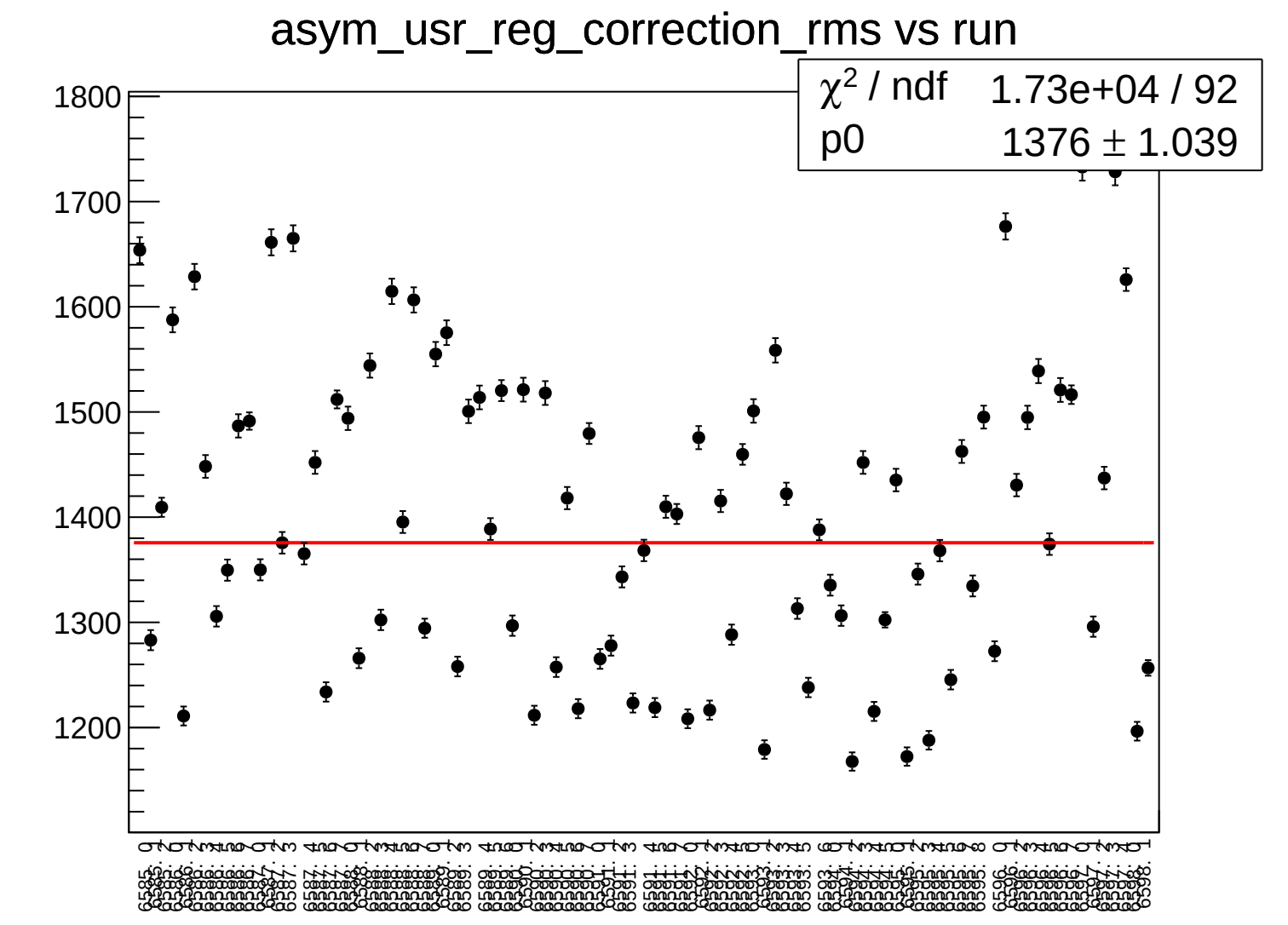

reg_asym_usr_mean vs run
χ² / ndf 92.31 / 92
p0 −3325 ± 1181
pull
Entries 93
Mean 552
Std Dev 0

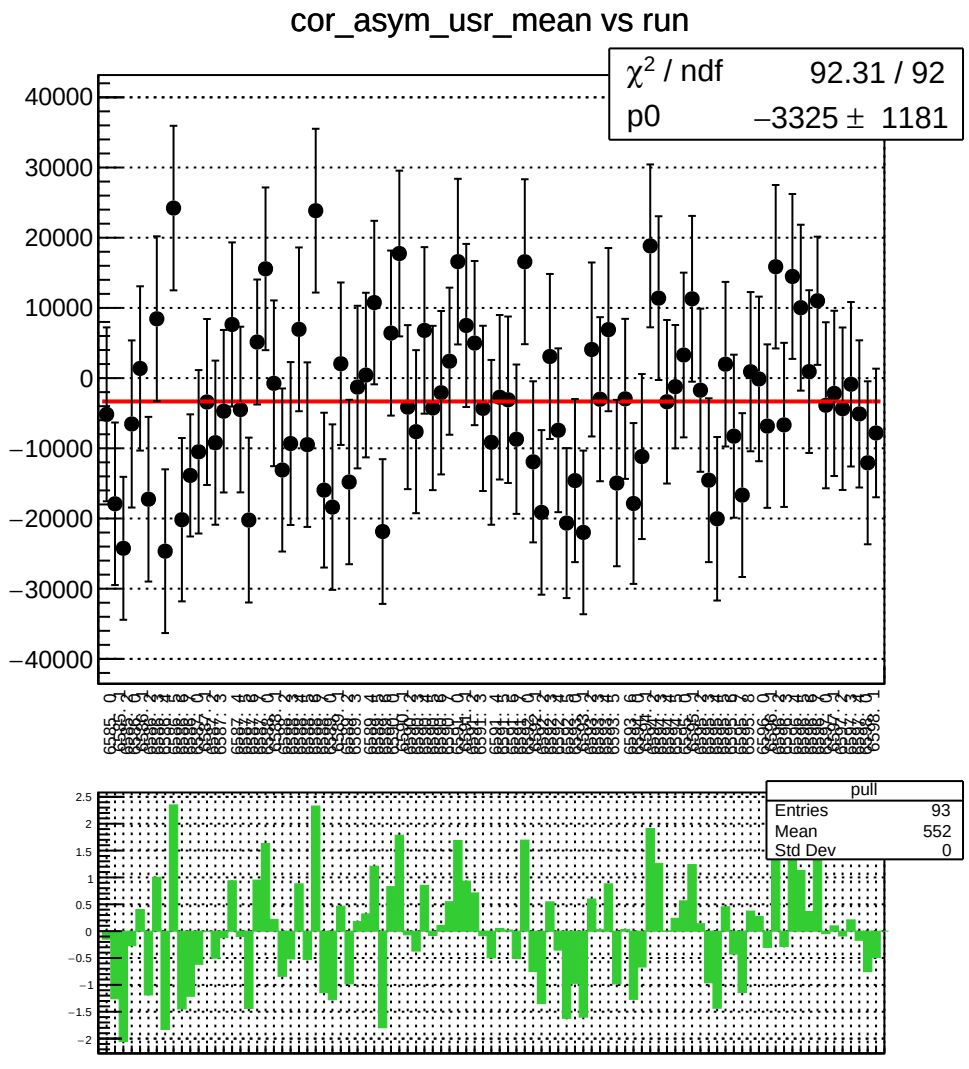

pull1D
Entries 93
Mean 0.006662
Std Dev 0.9962

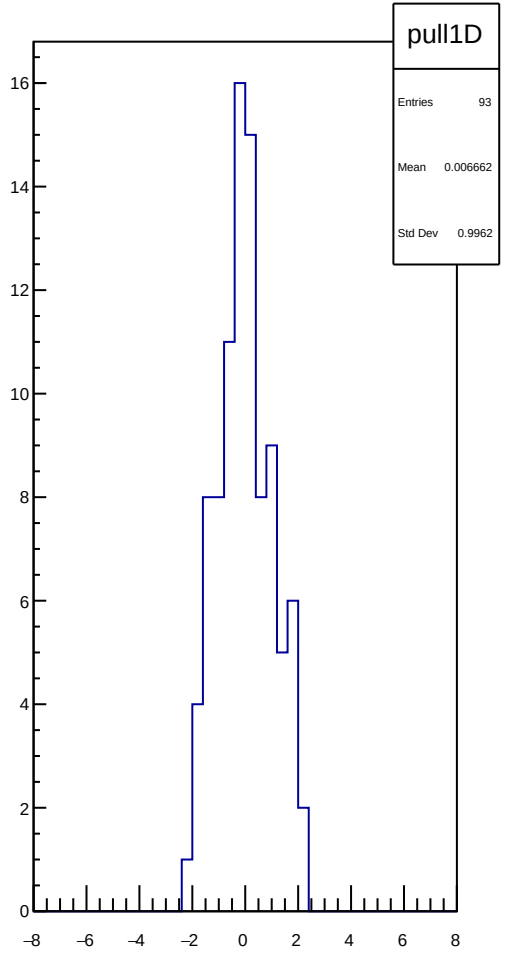

reg_asym_usr_rms vs run
χ² / ndf 203.7 / 92
p0 1111 ± 0.8348
1180
1160
1140
1120
1100
1080

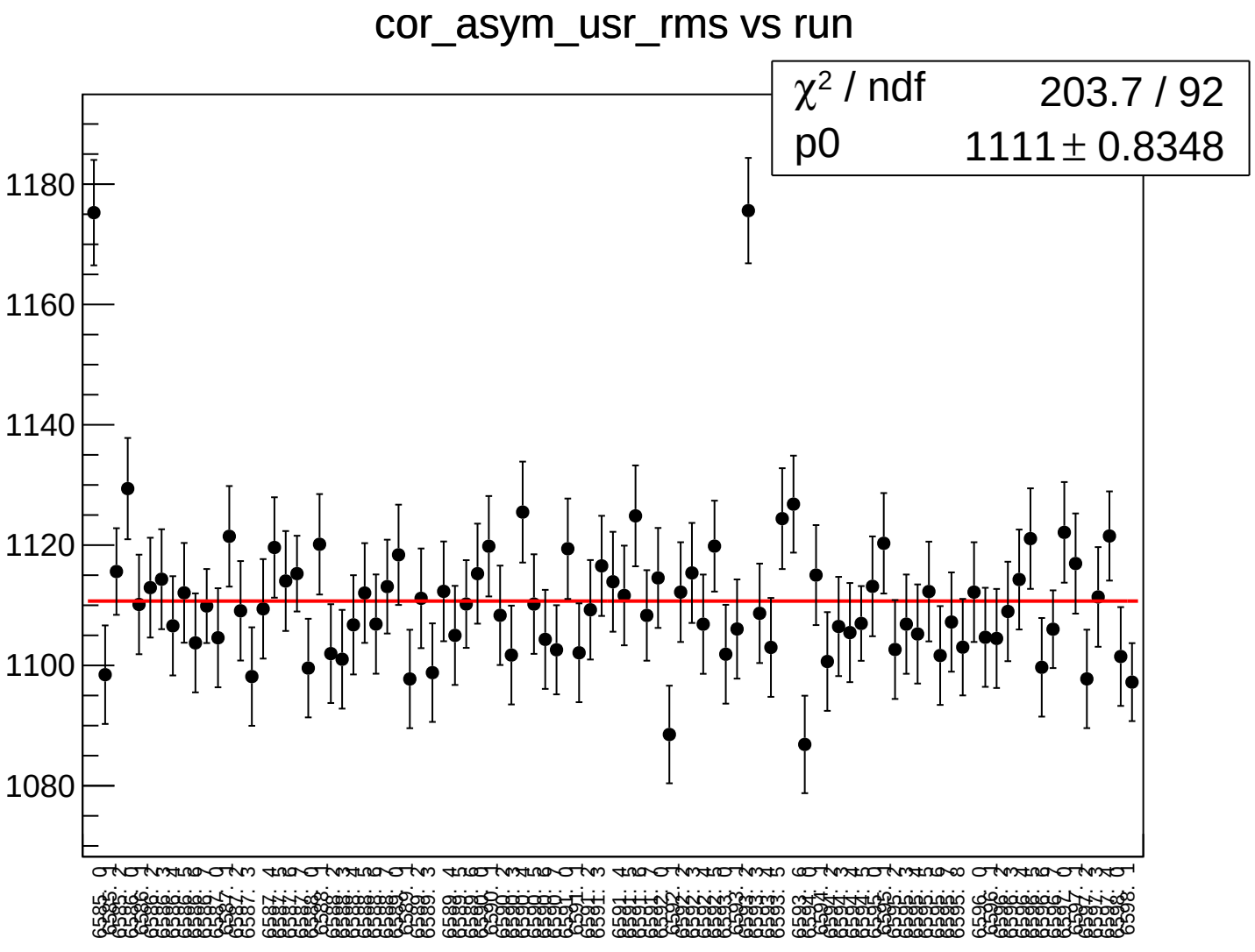

asym_usr_reg_correction_mean vs run
χ² / ndf 89.59 / 92
p0 644.4 ± 1469
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −209
Std Dev 0
3
2
1
0
−1
−2

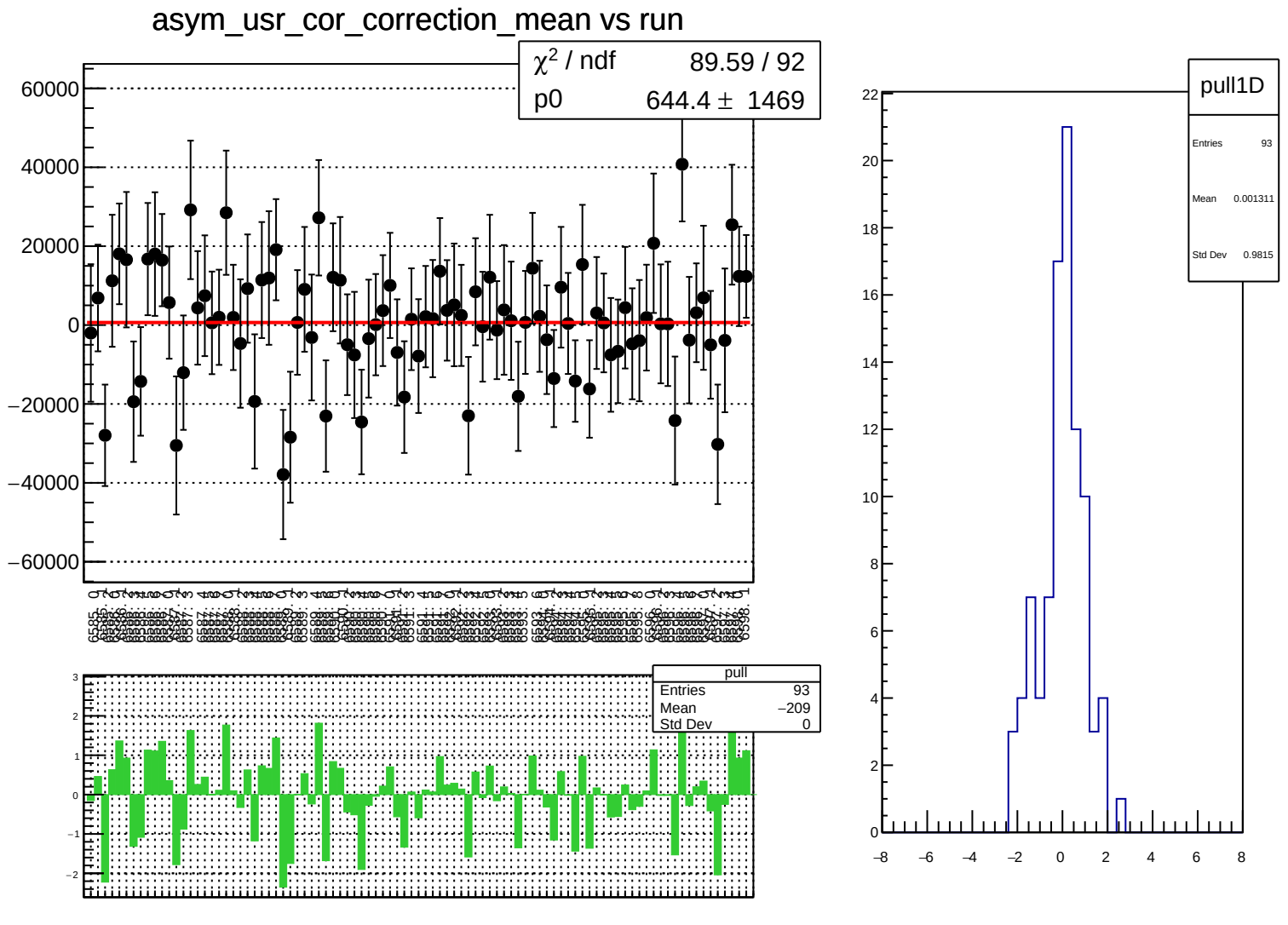

pull1D
Entries 93
Mean 0.001311
Std Dev 0.9815
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

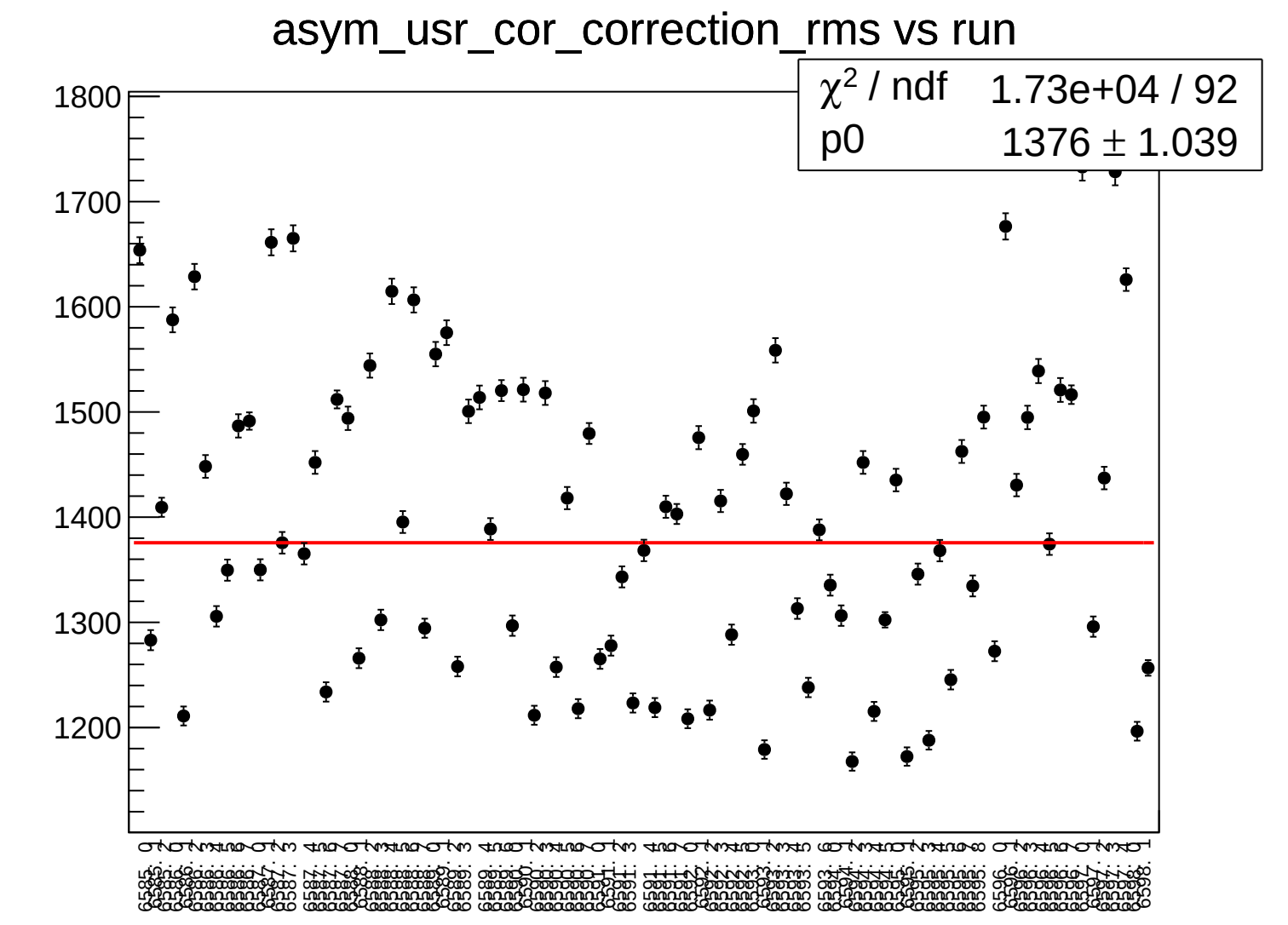

asym_usr_reg_correction_rms vs run
χ² / ndf 1.73e+04 / 92
p0 1376 ± 1.039
1800
1700
1600
1500
1400
1300
1200

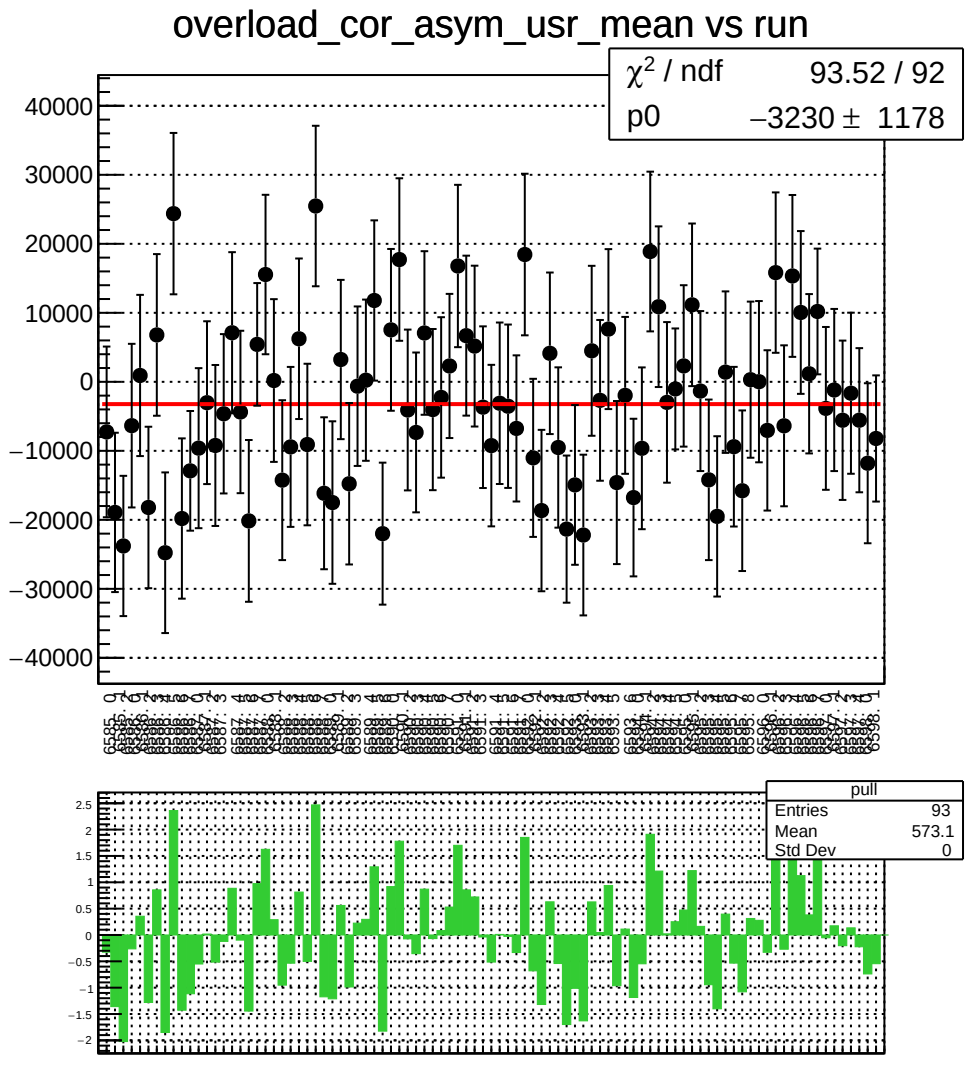

cor_asym_usr_mean vs run
χ² / ndf 92.31 / 92
p0 −3325 ± 1181
pull
Entries 93
Mean 552
Std Dev 0

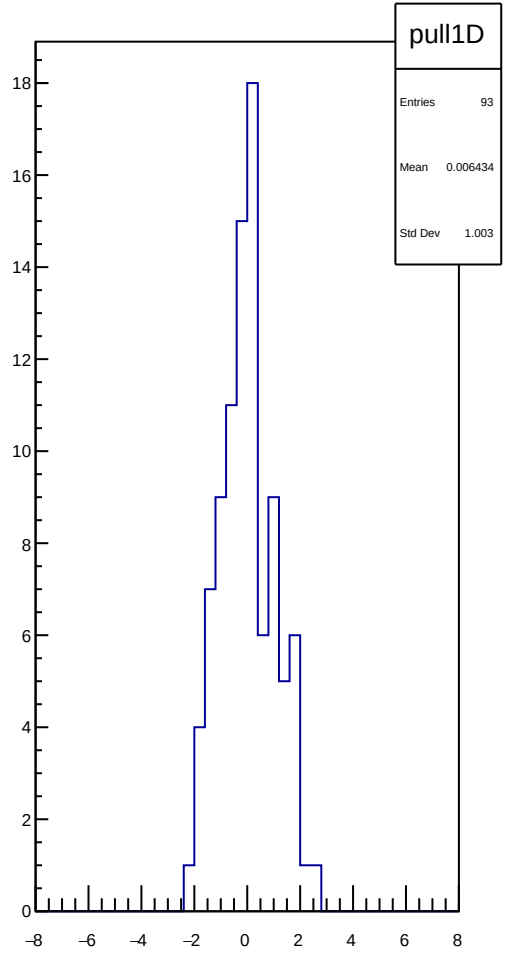

pull1D
Entries 93
Mean 0.006662
Std Dev 0.9962

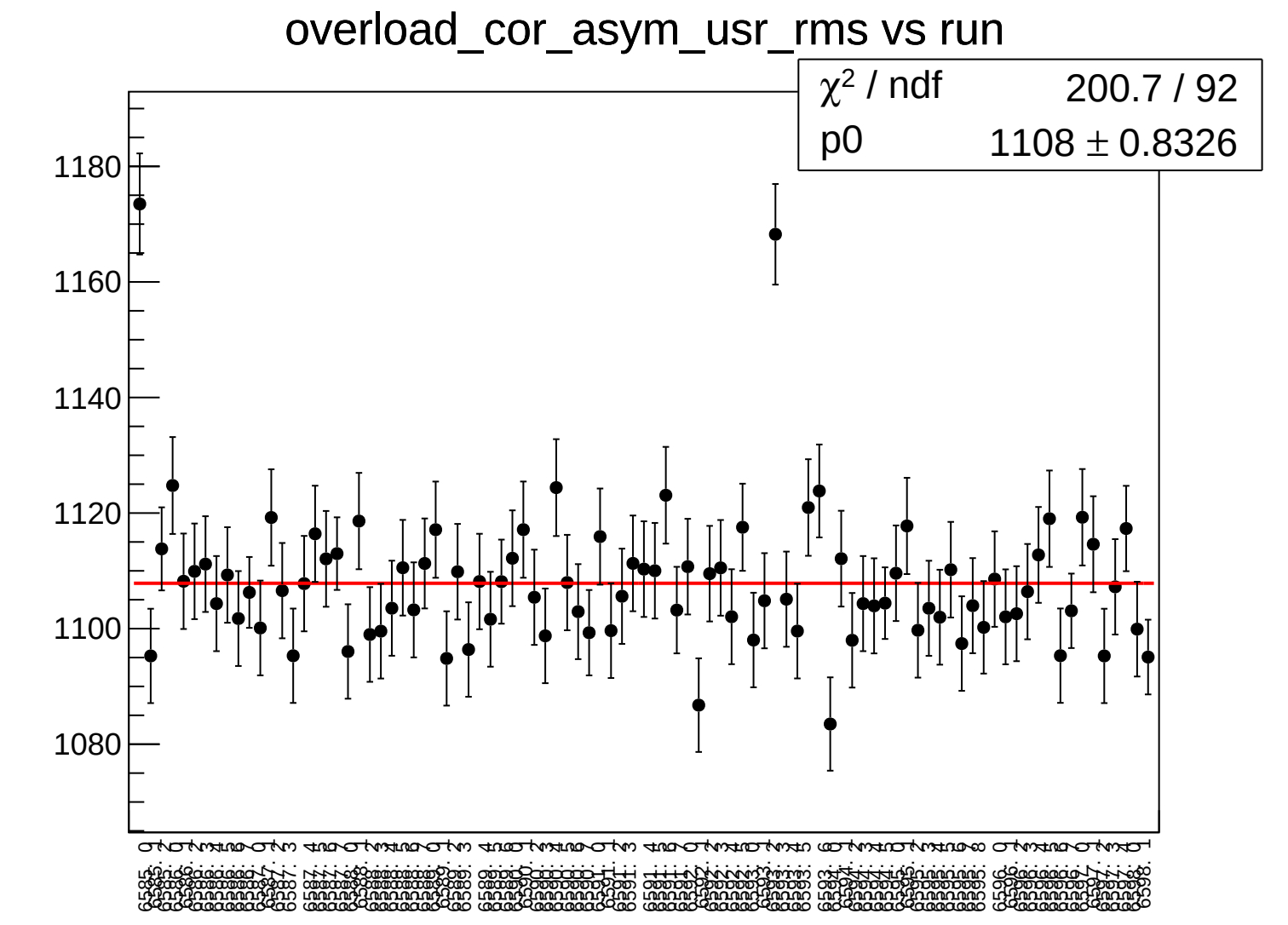

cor_asym_usr_rms vs run
χ² / ndf 203.7 / 92
p0 1111 ± 0.8348
1180
1160
1140
1120
1100
1080

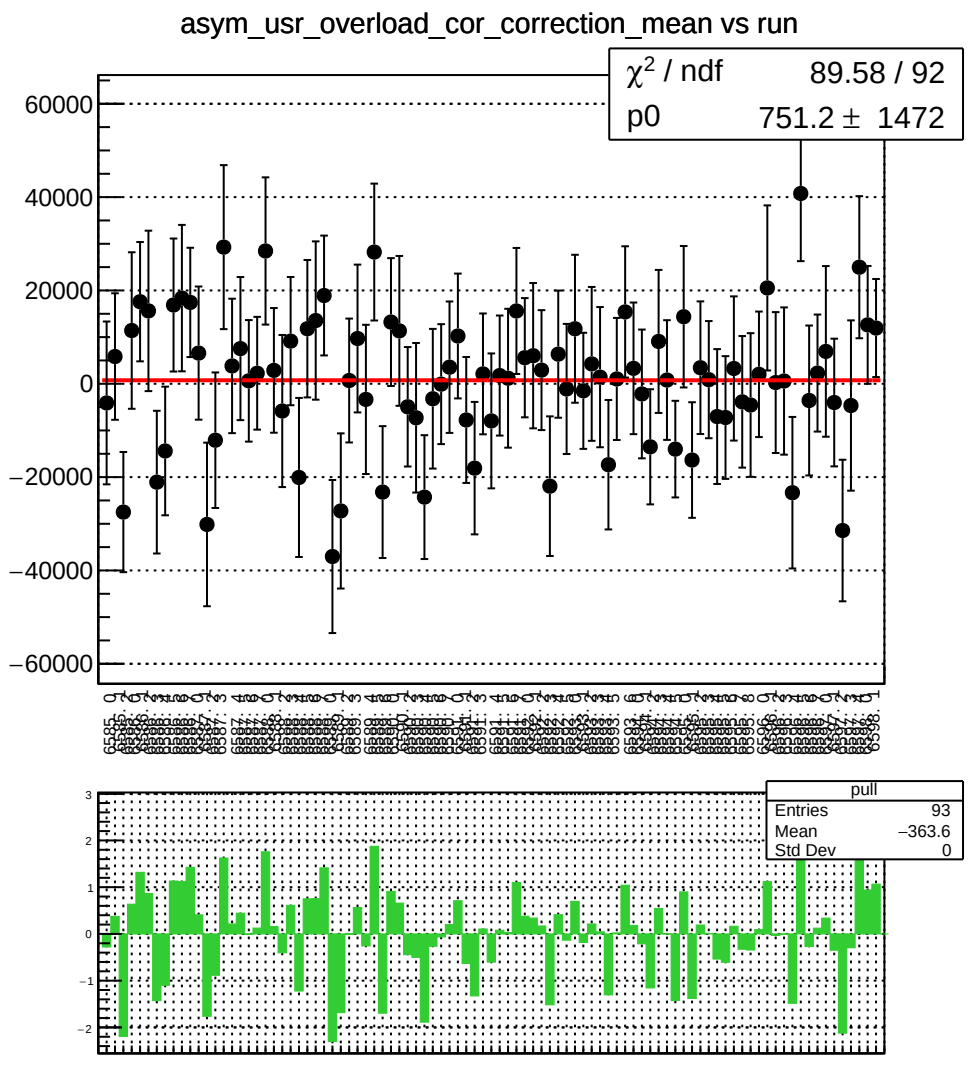

asym_usr_cor_correction_mean vs run
χ² / ndf 89.59 / 92
p0 644.4 ± 1469
pull
Entries 93
Mean −209
Std Dev 0
pull1D
Entries 93
Mean 0.001311
Std Dev 0.9815

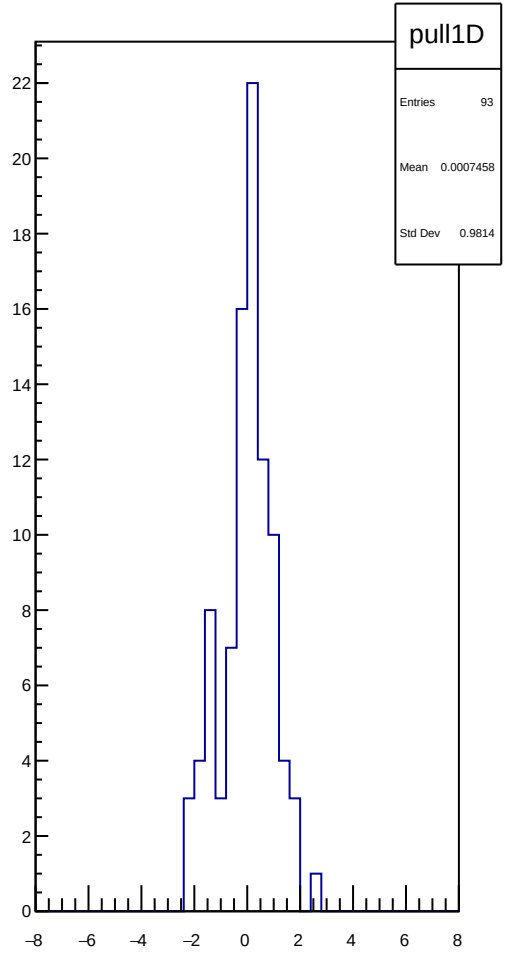

asym_usr_cor_correction_rms vs run
χ² / ndf 1.73e+04 / 92
p0 1376 ± 1.039
1800
1700
1600
1500
1400
1300
1200

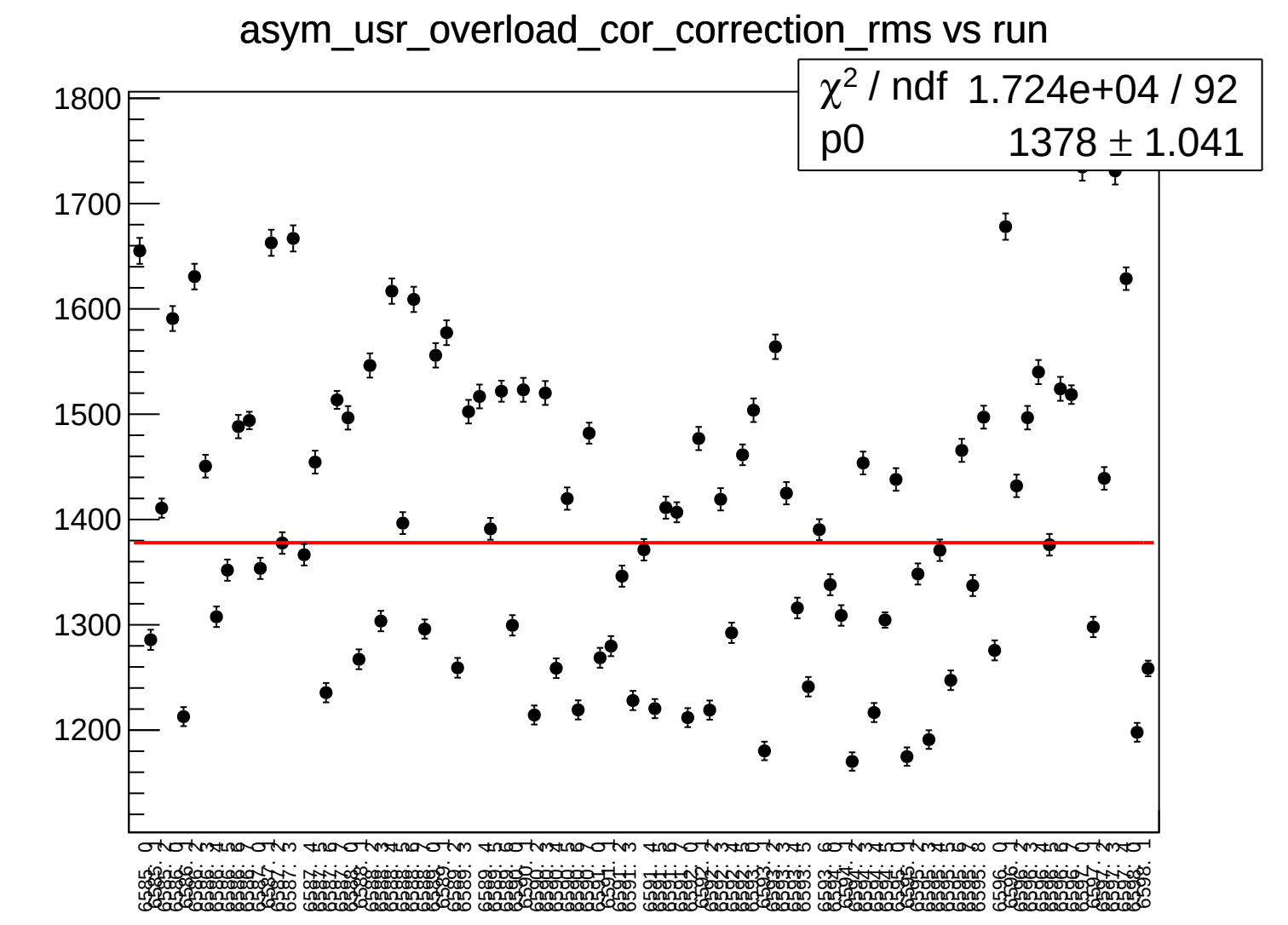

overload_cor_asym_usr_mean vs run
χ² / ndf 93.52 / 92
p0 −3230 ± 1178
pull
Entries 93
Mean 573.1
Std Dev 0

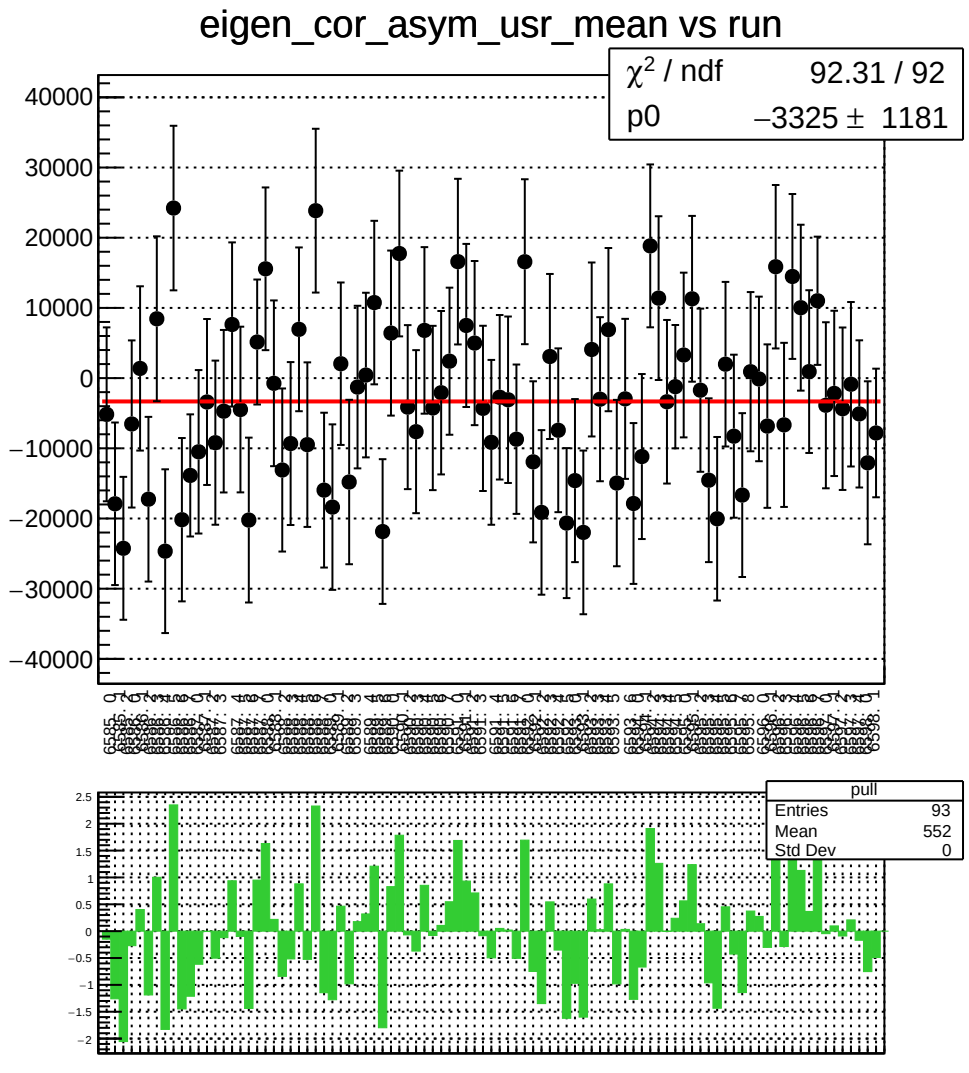

pull1D
Entries 93
Mean 0.006434
Std Dev 1.003

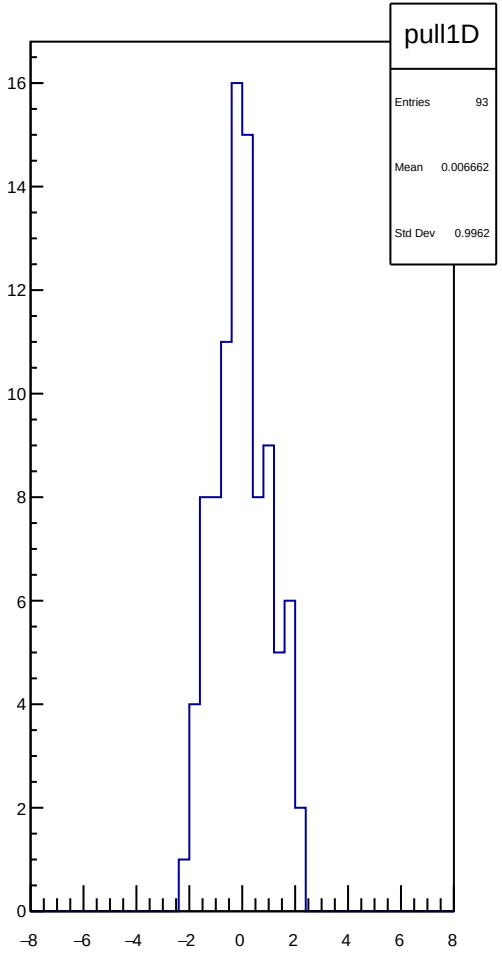

overload_cor_asym_usr_rms vs run
χ² / ndf 200.7 / 92
p0 1108 ± 0.8326
1180
1160
1140
1120
1100
1080

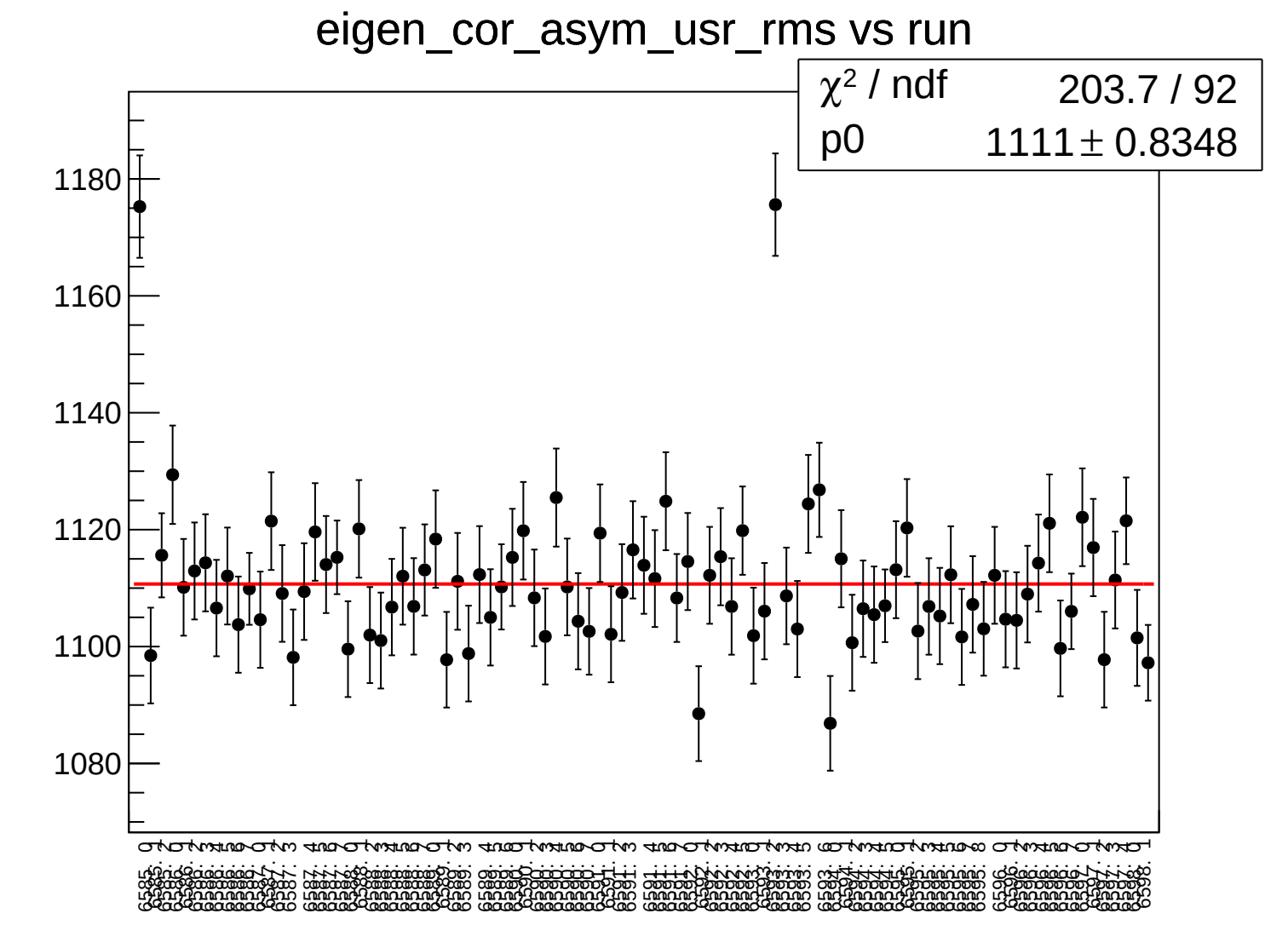

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 89.58 / 92
p0 751.2 ± 1472
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −363.6
Std Dev 0
3
2
1
0
−1
−2

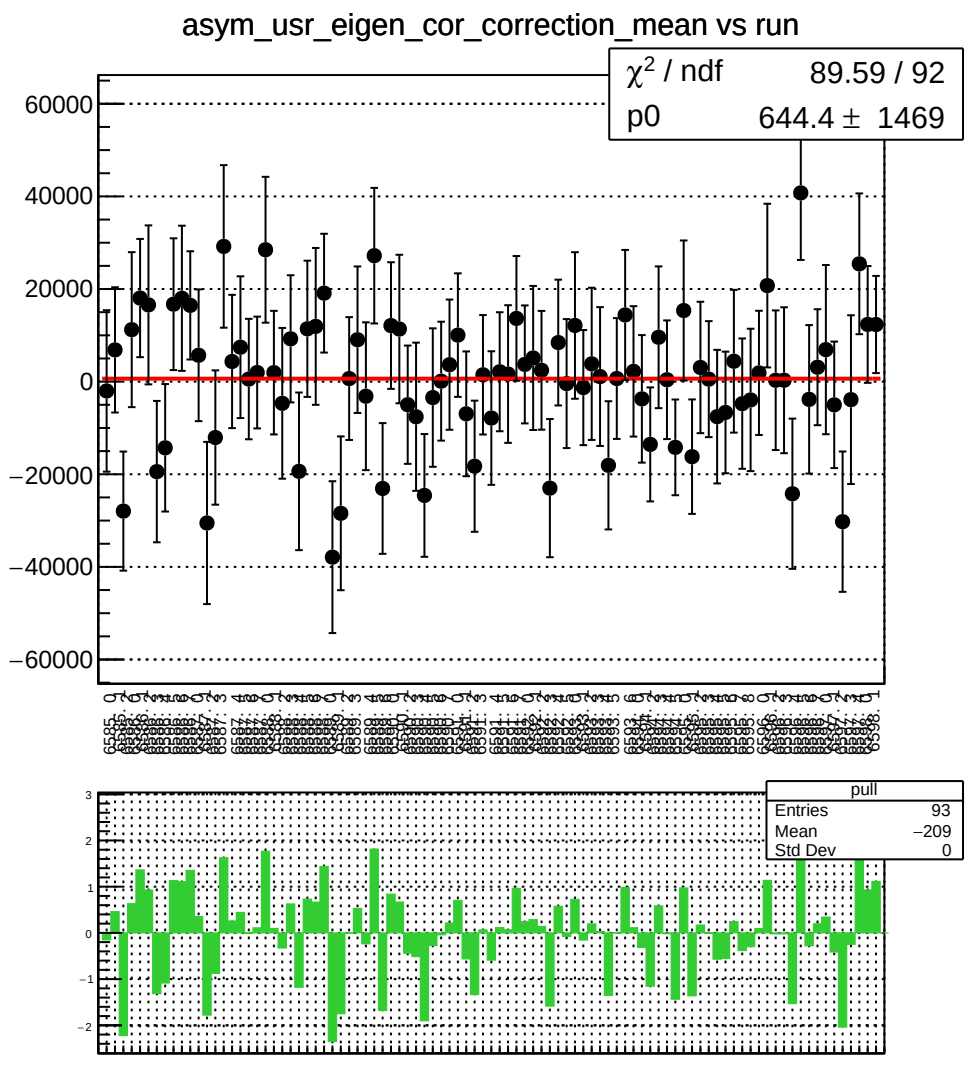

pull1D
Entries 93
Mean 0.0007458
Std Dev 0.9814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

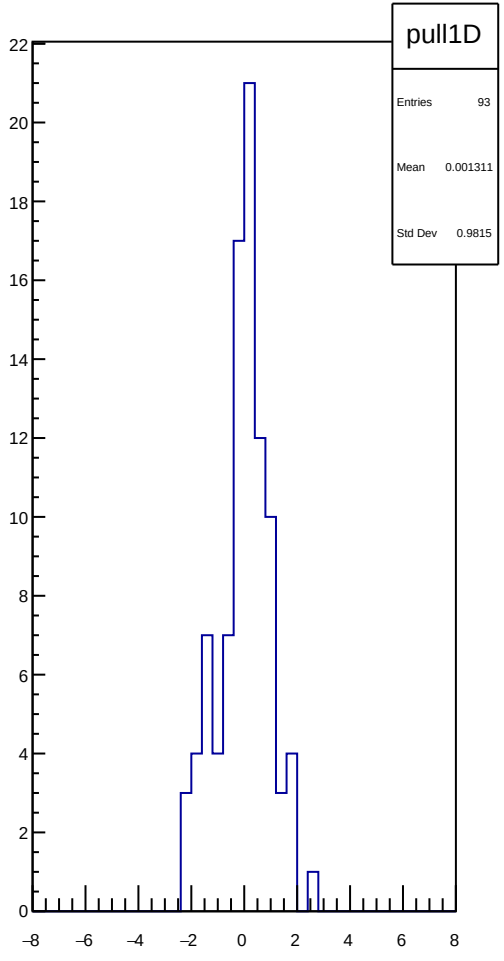

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.724e+04 / 92
p0 1378 ± 1.041
1800
1700
1600
1500
1400
1300
1200

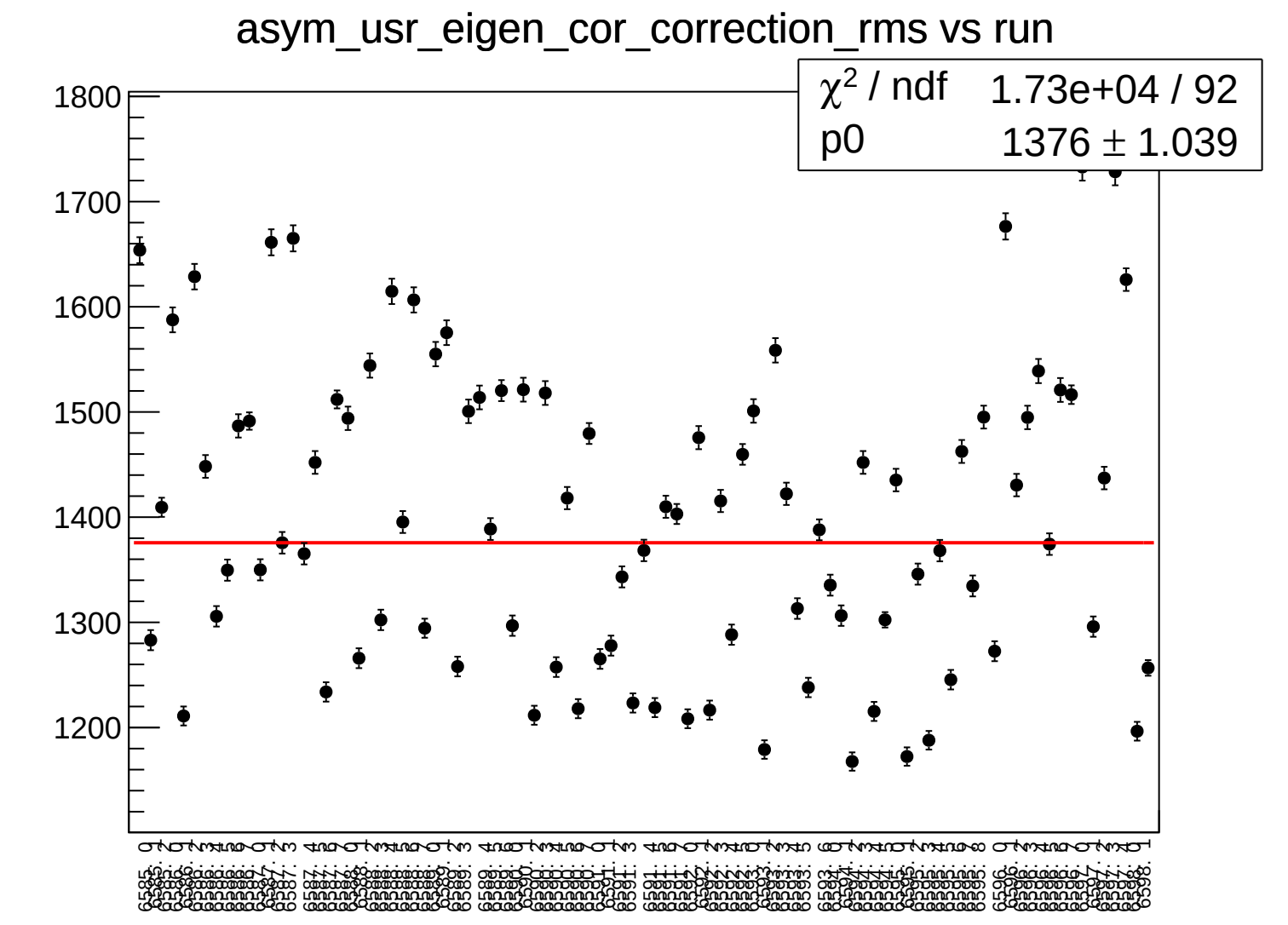

eigen_cor_asym_usr_mean vs run
χ² / ndf 92.31 / 92
p0 −3325 ± 1181
pull
Entries 93
Mean 552
Std Dev 0

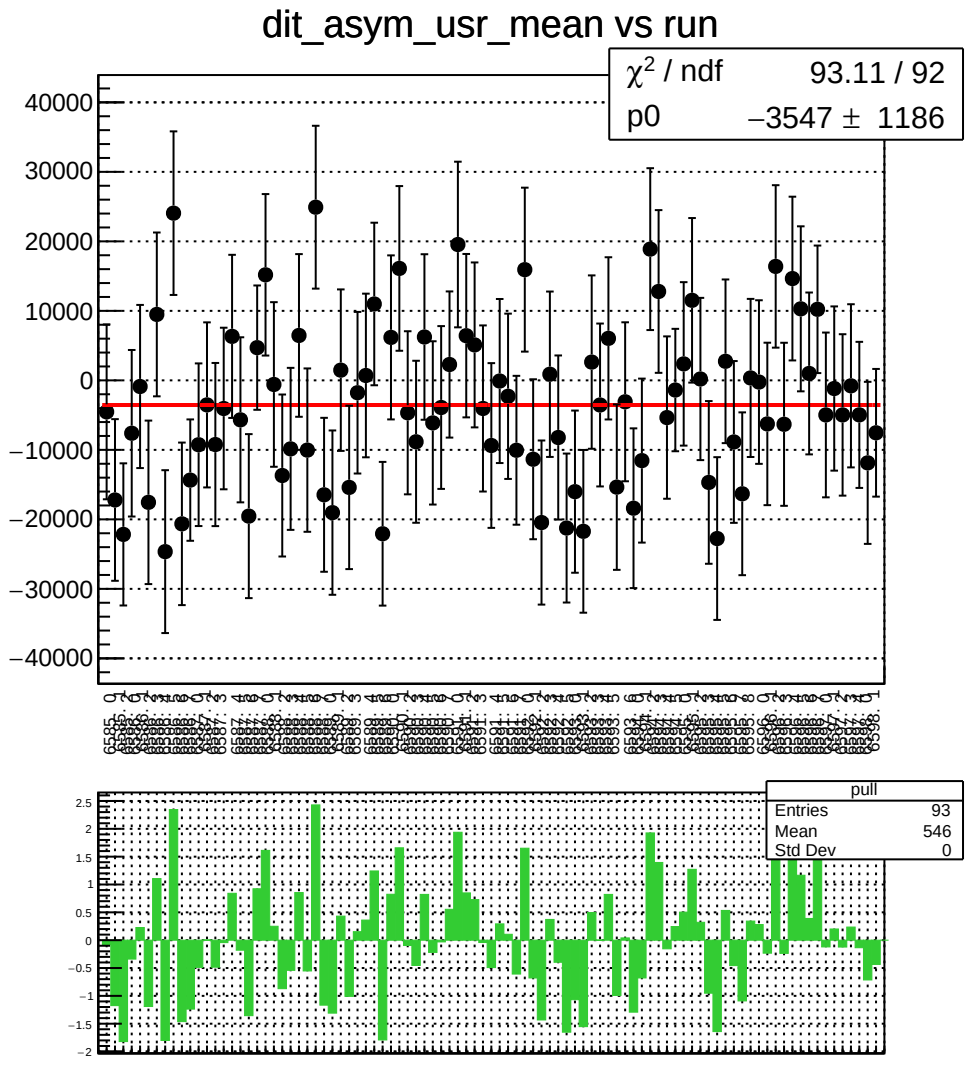

pull1D
Entries 93
Mean 0.006662
Std Dev 0.9962

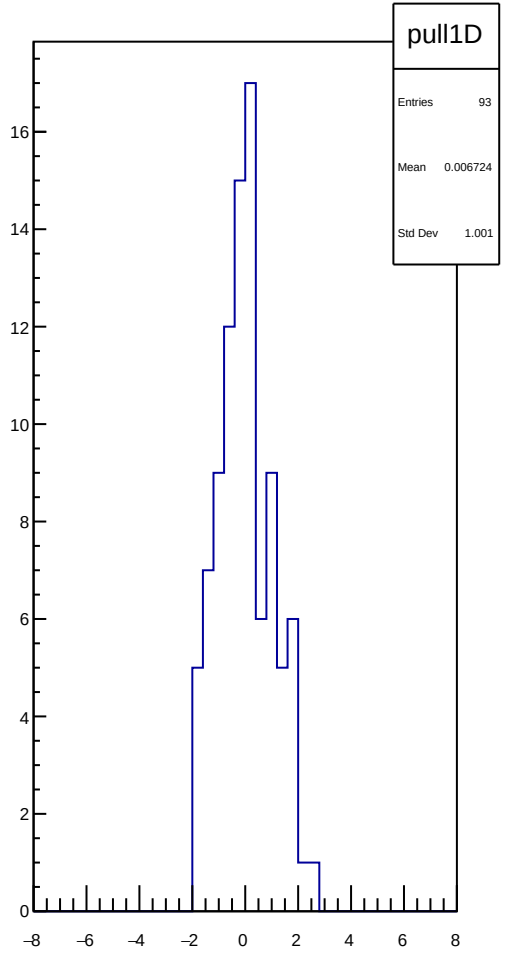

eigen_cor_asym_usr_rms vs run
χ² / ndf 203.7 / 92
p0 1111 ± 0.8348
1180
1160
1140
1120
1100
1080

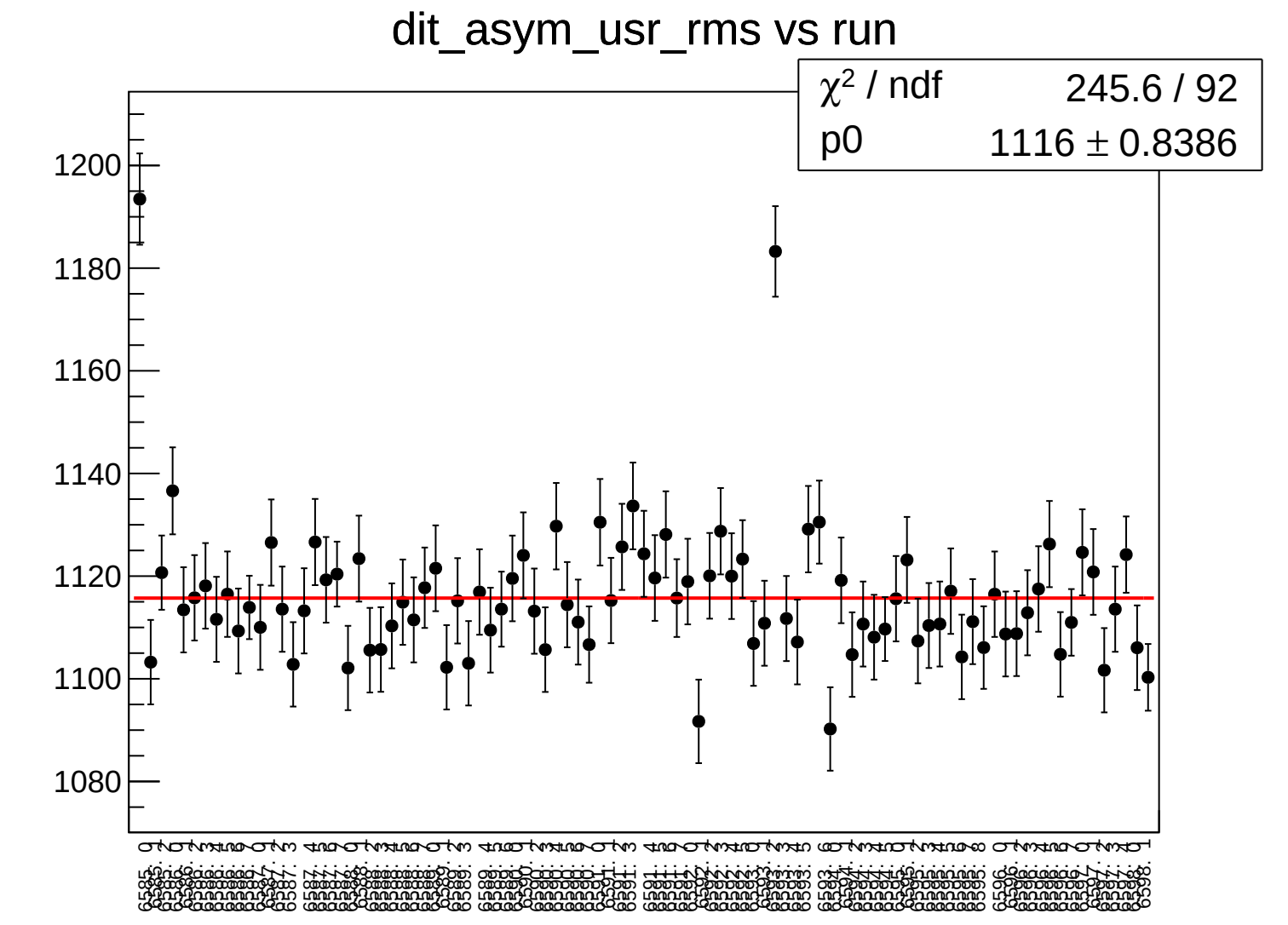

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 89.59 / 92
p0 644.4 ± 1469
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −209
Std Dev 0
3
2
1
0
−1
−2

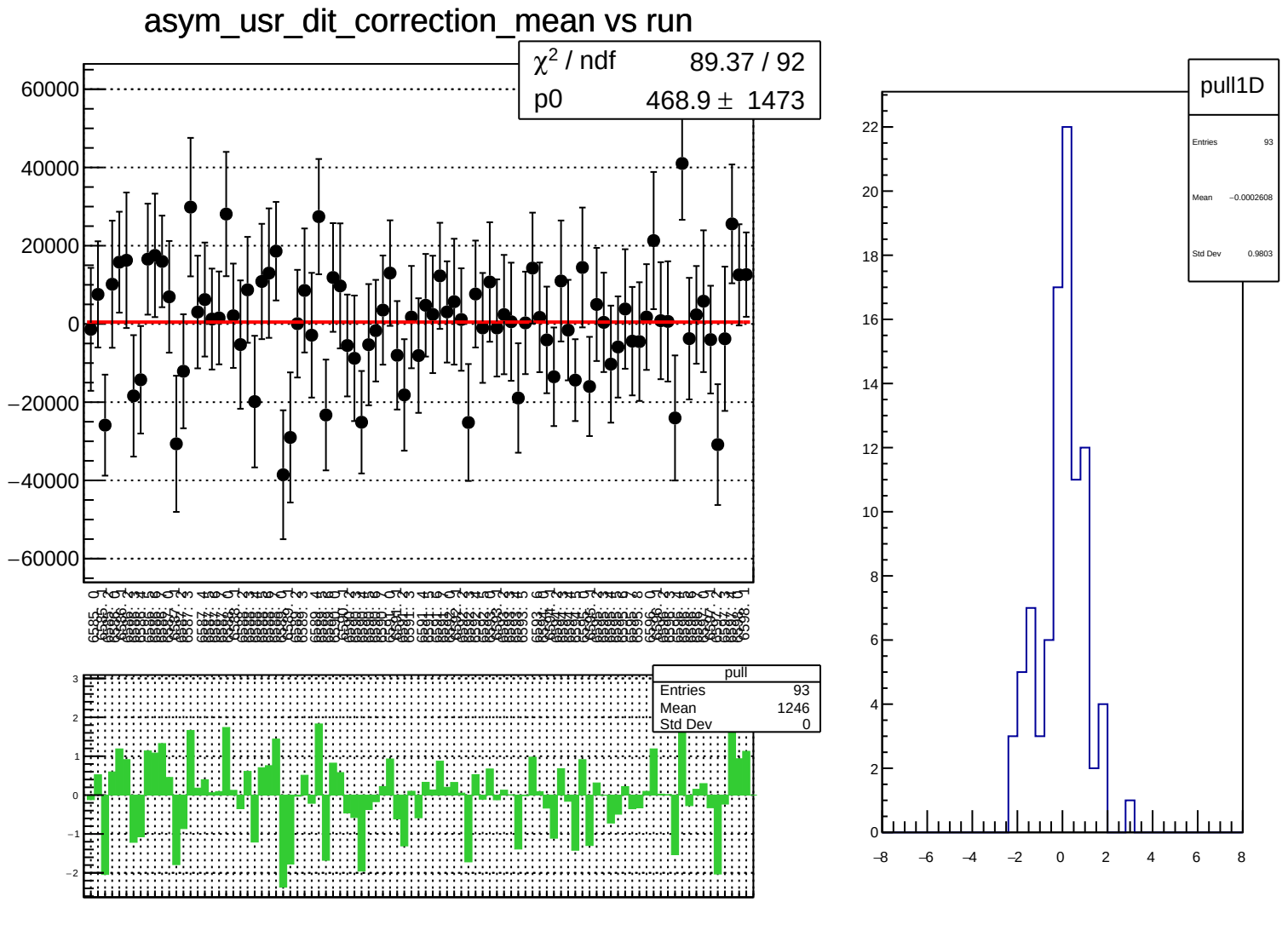

pull1D
Entries 93
Mean 0.001311
Std Dev 0.9815
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

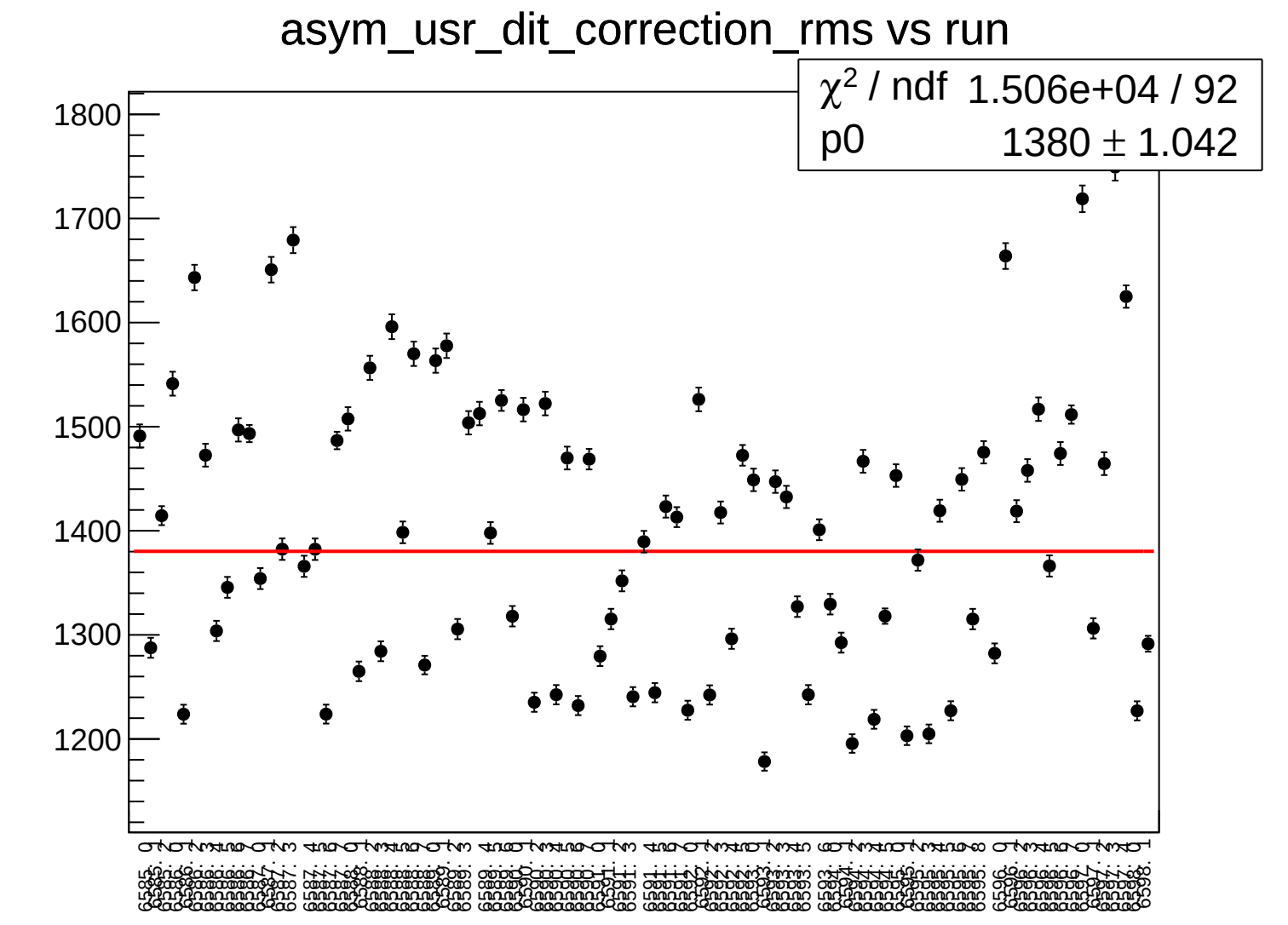

asym_usr_eigen_cor_correction_rms vs run
χ^2 / ndf 1.73e+04 / 92
p0 1376 ± 1.039
1800
1700
1600
1500
1400
1300
1200

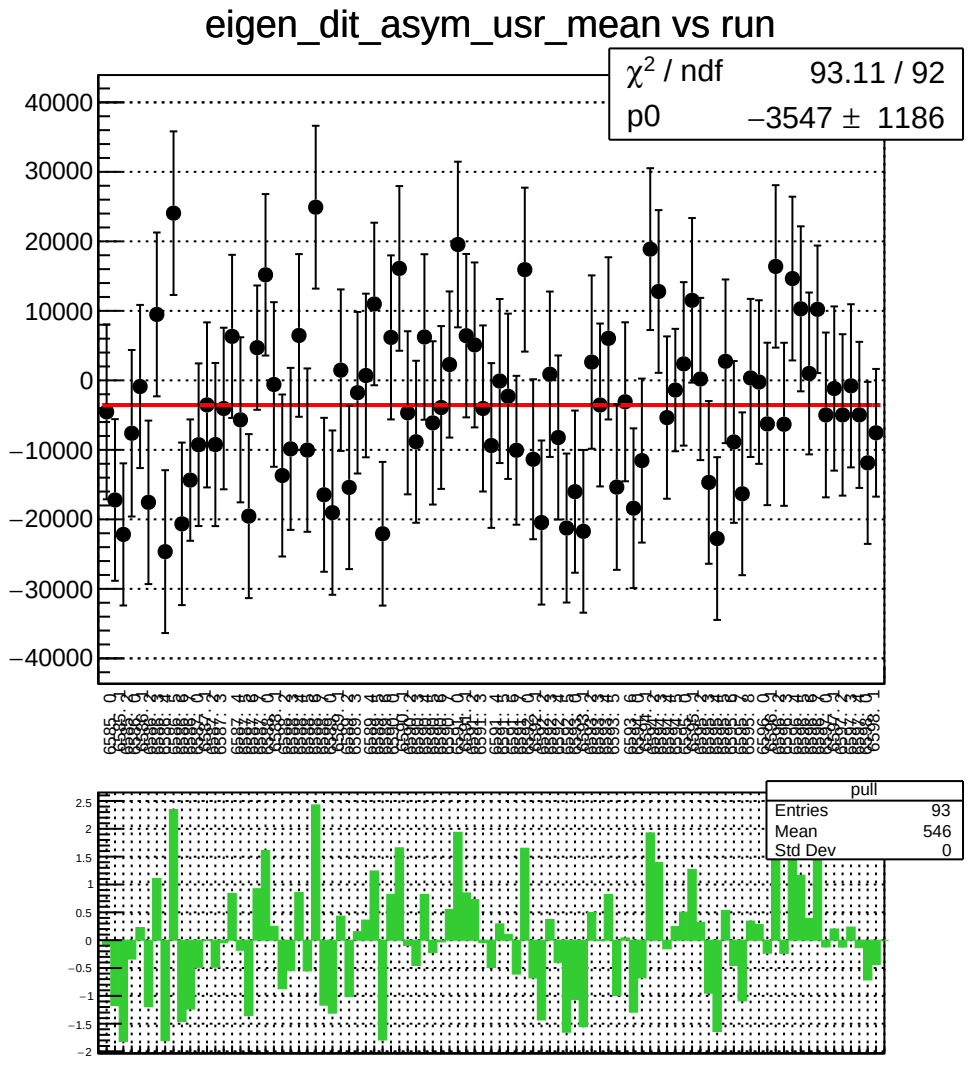

dit_asym_usr_mean vs run
χ² / ndf 93.11 / 92
p0 −3547 ± 1186
pull
Entries 93
Mean 546
Std Dev 0

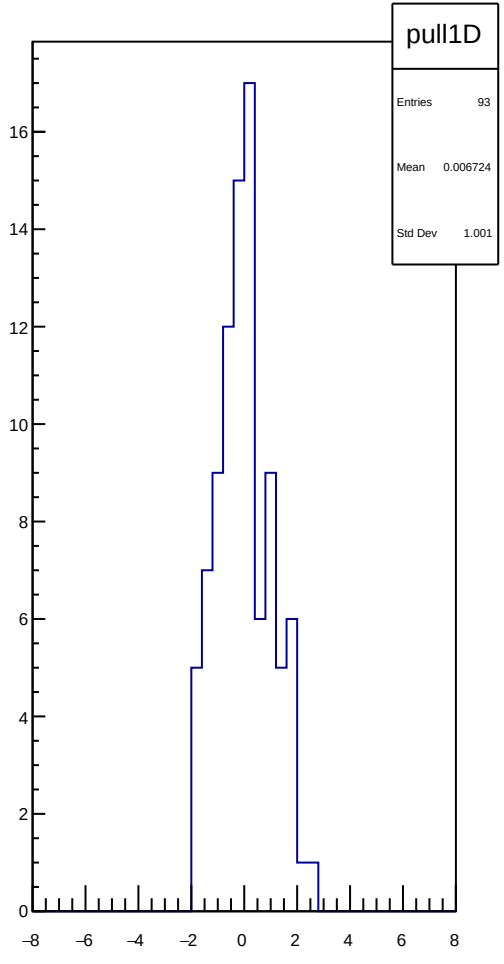

pull1D
Entries 93
Mean 0.006724
Std Dev 1.001

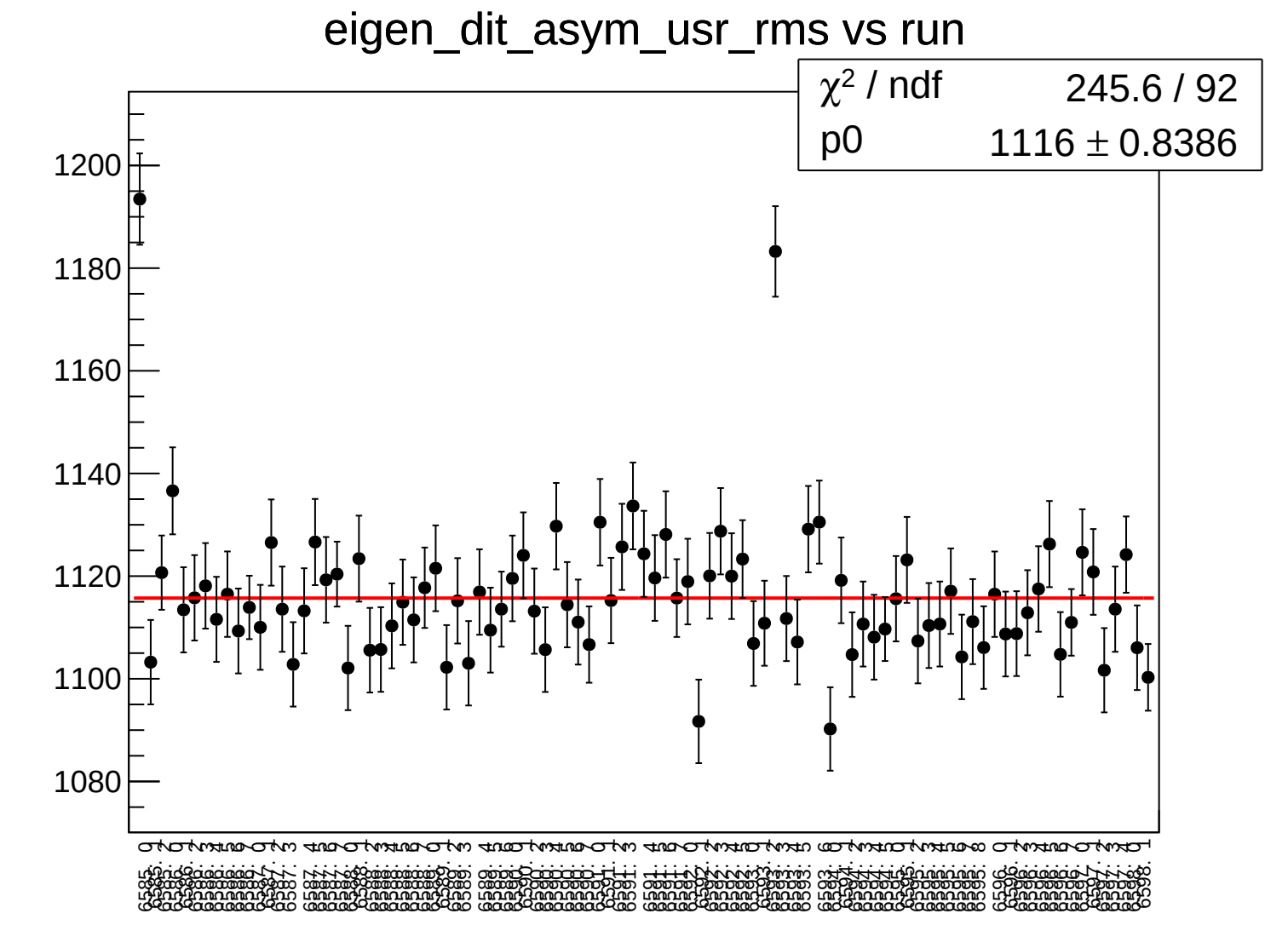

dit_asym_usr_rms vs run
χ² / ndf 245.6 / 92
p0 1116 ± 0.8386
1200
1180
1160
1140
1120
1100
1080

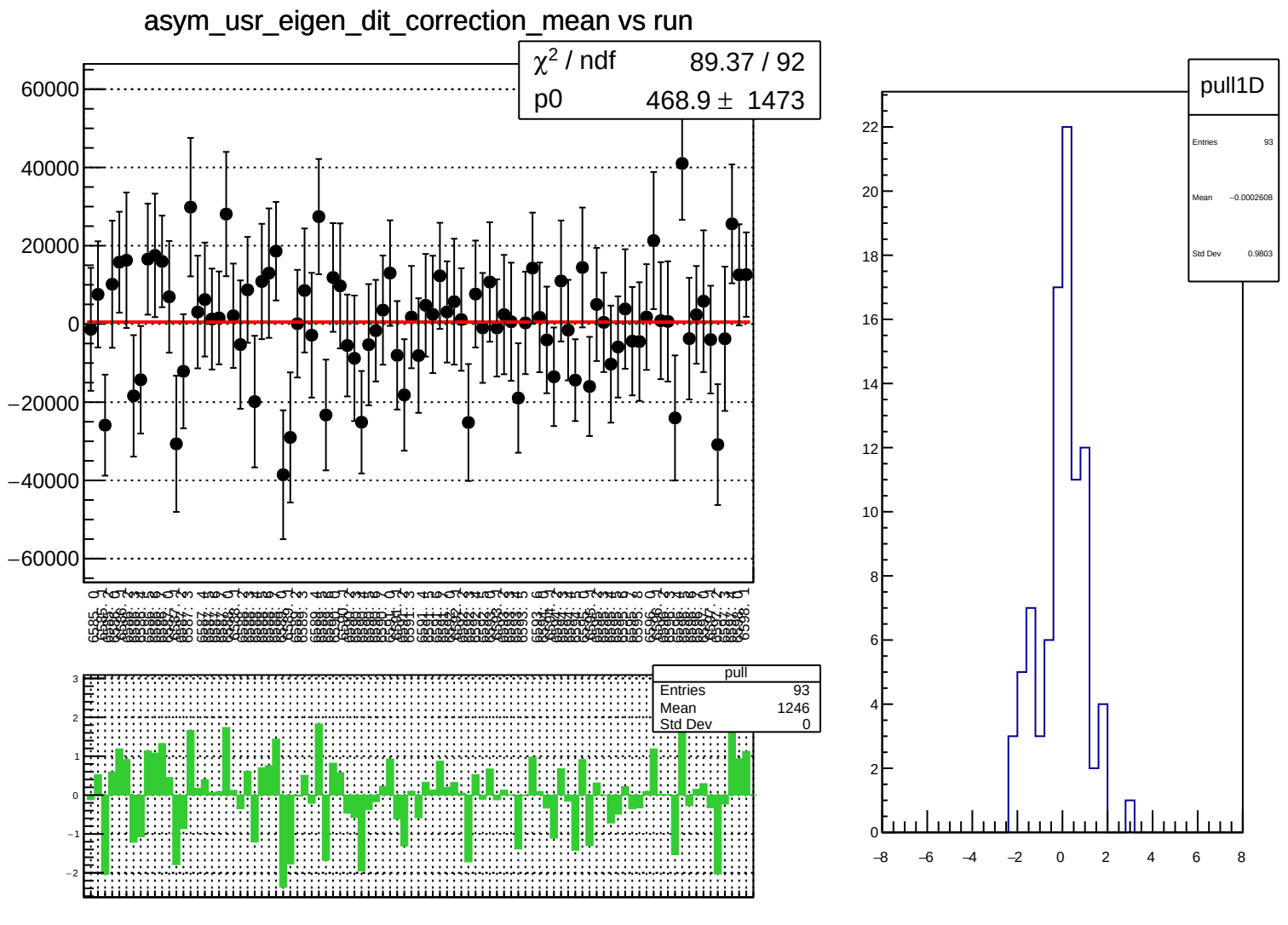

asym_usr_dit_correction_mean vs run
χ² / ndf 89.37 / 92
p0 468.9 ± 1473
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1246
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0002608
Std Dev 0.9803
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

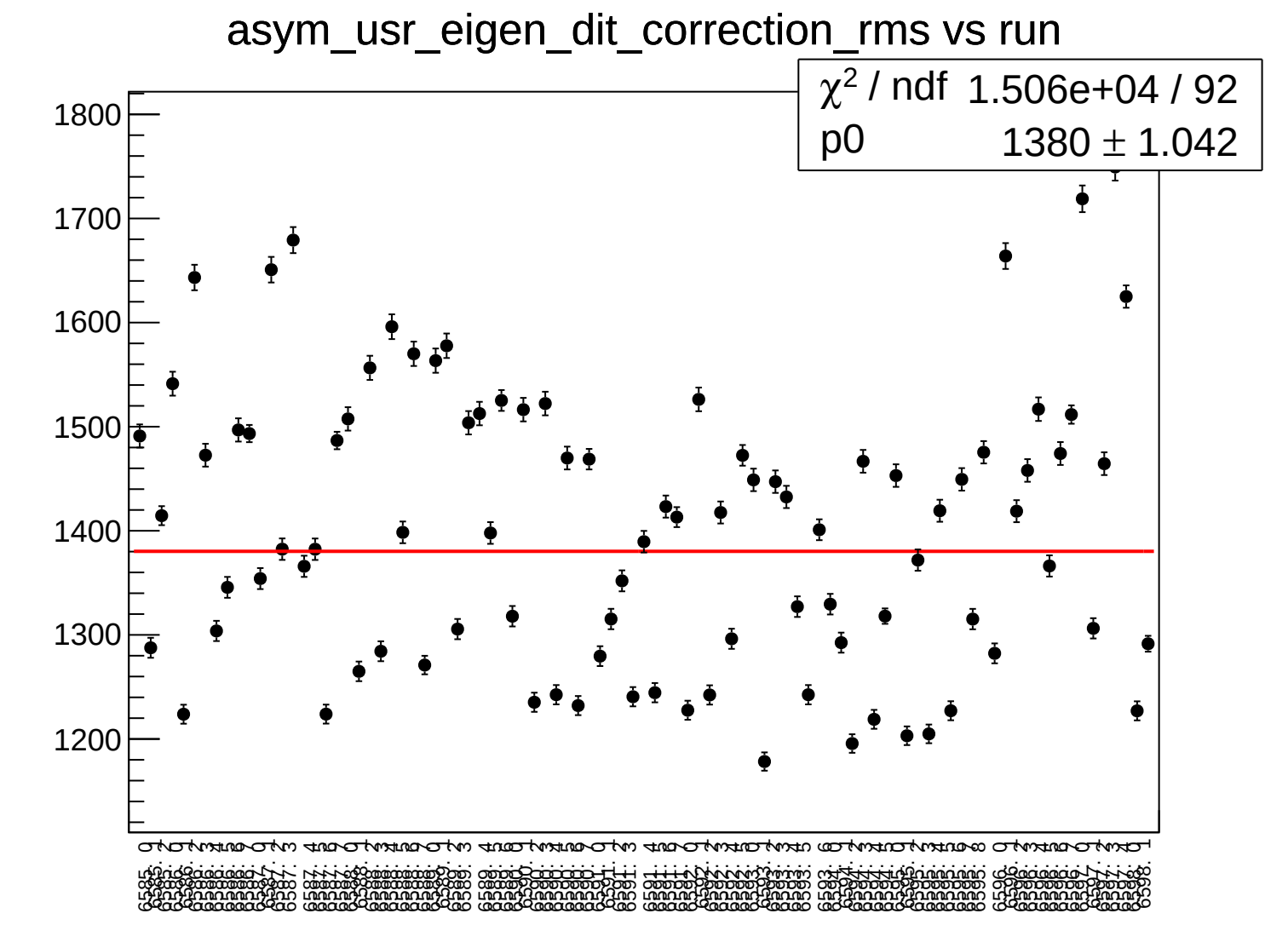

asym_usr_dit_correction_rms vs run
χ² / ndf 1.506e+04 / 92
p0 1380 ± 1.042
1800
1700
1600
1500
1400
1300
1200

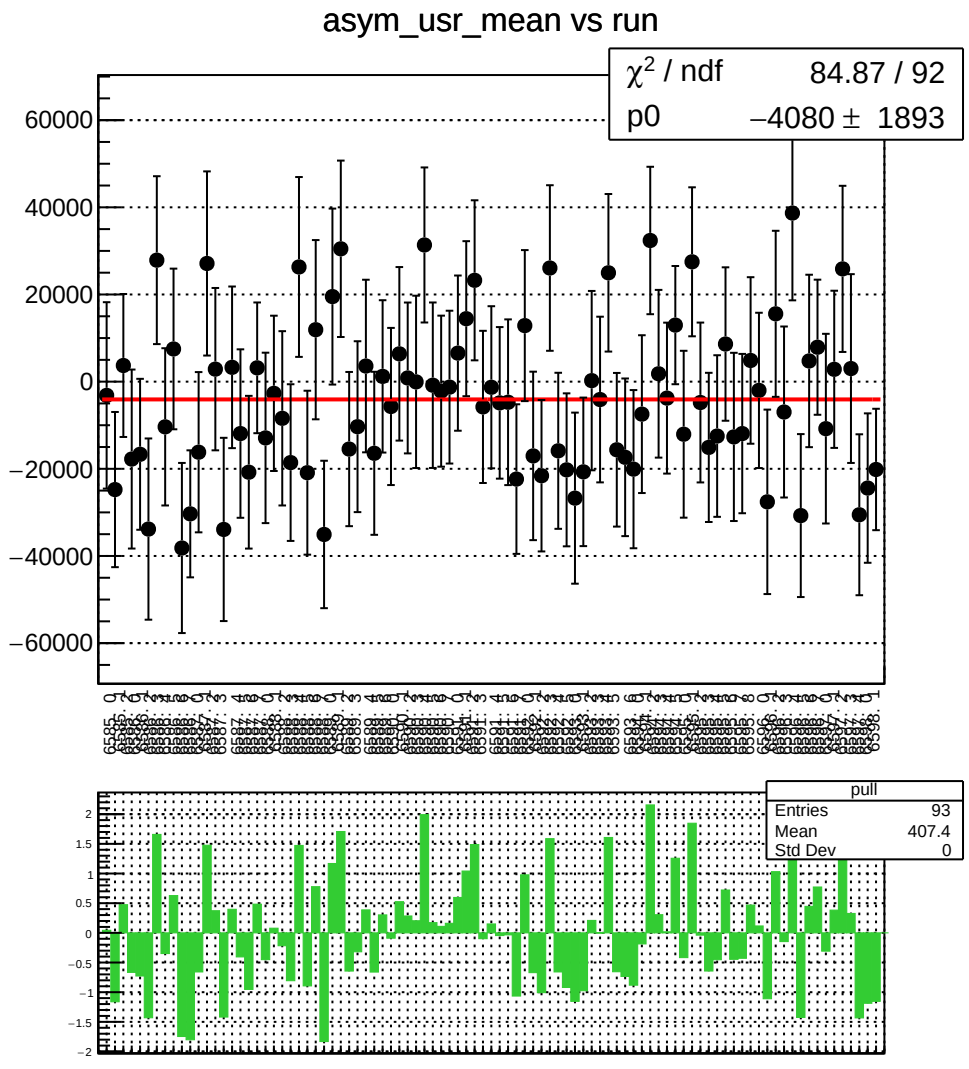

eigen_dit_asym_usr_mean vs run
χ² / ndf 93.11 / 92
p0 −3547 ± 1186
pull
Entries 93
Mean 546
Std Dev 0

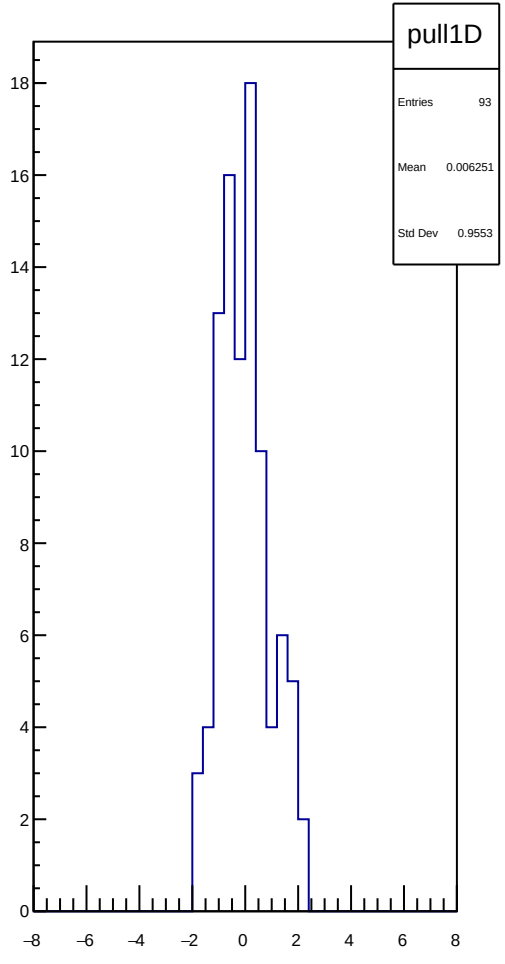

pull1D
Entries 93
Mean 0.006724
Std Dev 1.001

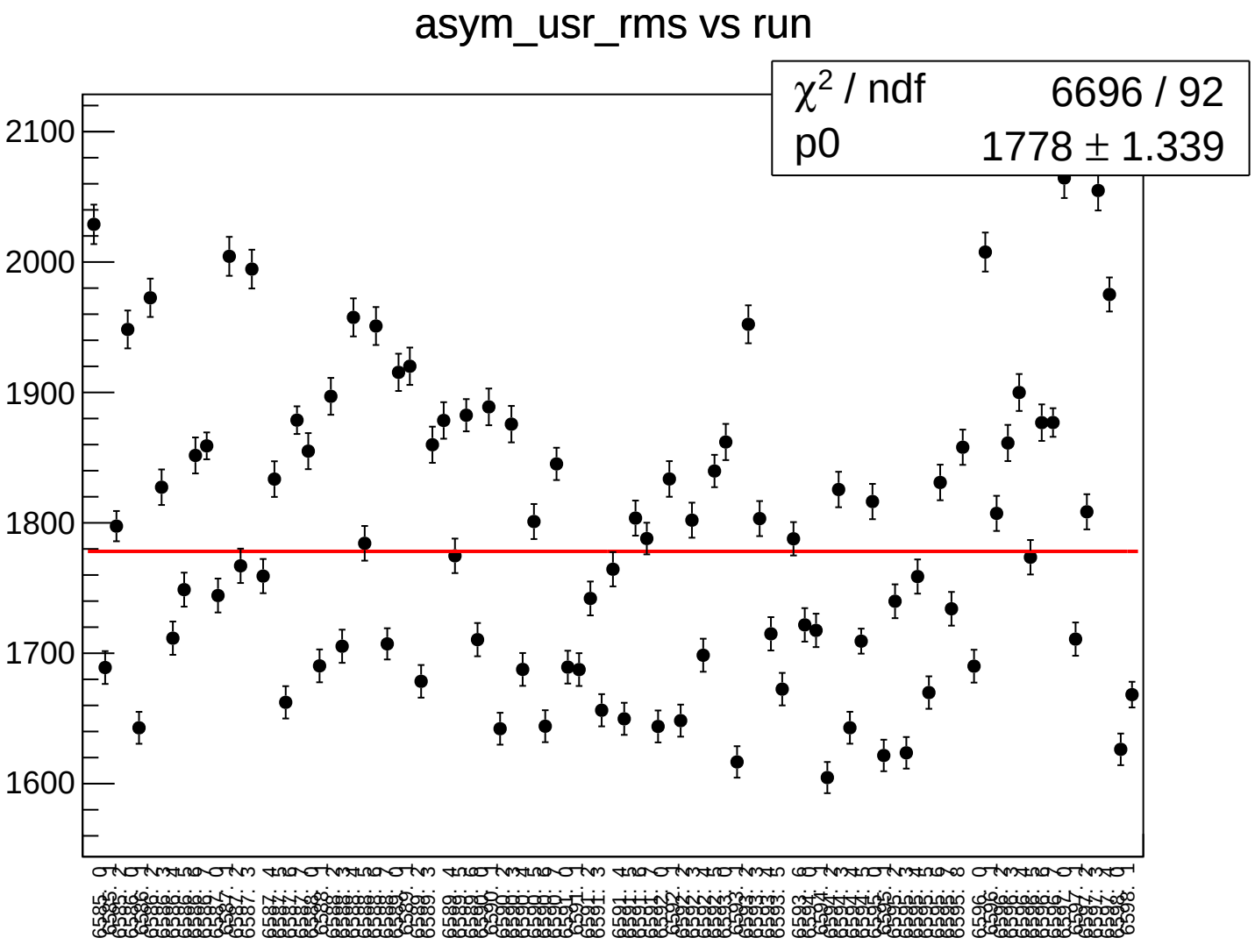

eigen_dit_asym_usr_rms vs run
χ² / ndf 245.6 / 92
p0 1116 ± 0.8386
1200
1180
1160
1140
1120
1100
1080

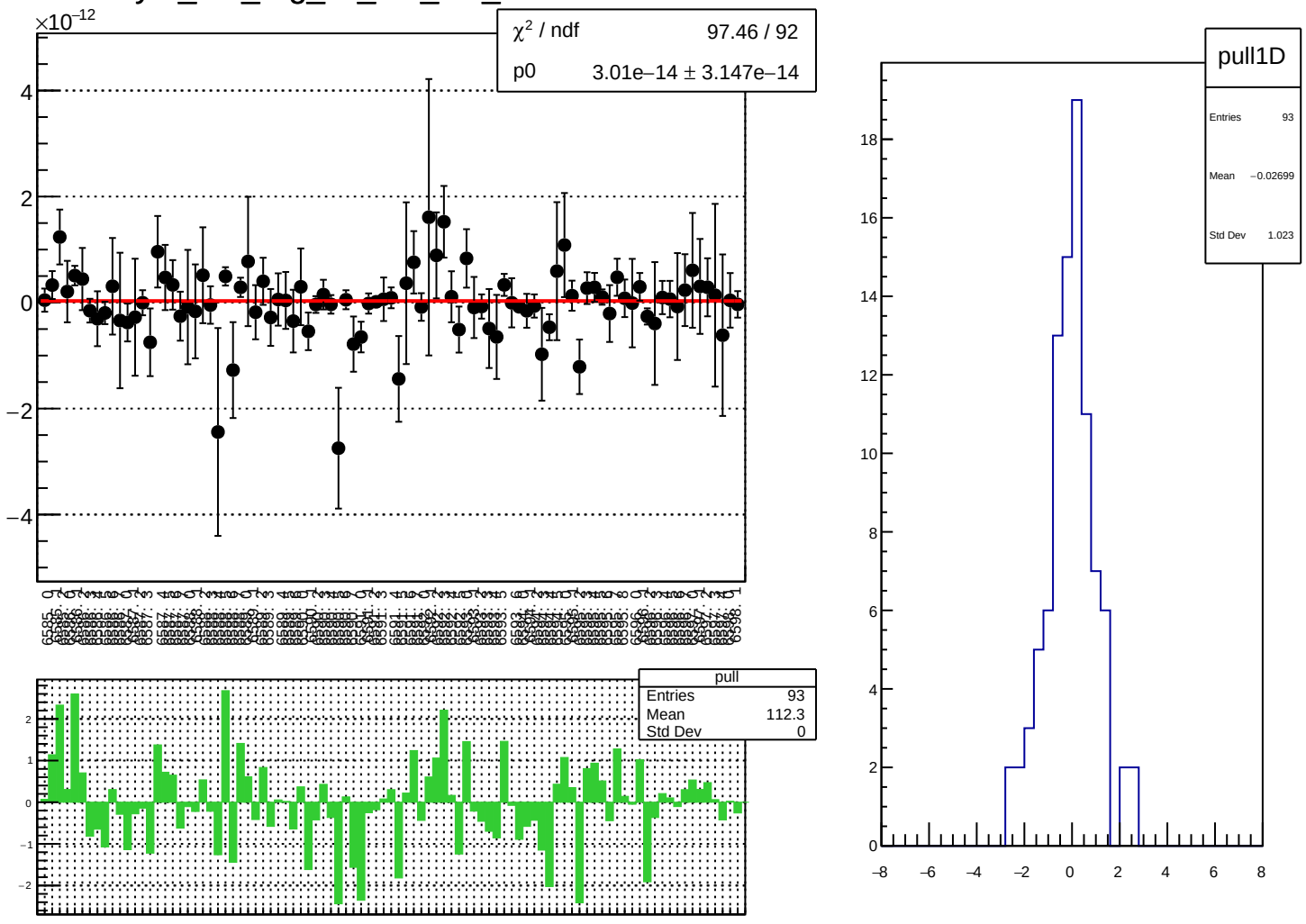

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 89.37 / 92
p0 468.9 ± 1473
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1246
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0002608
Std Dev 0.9803
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

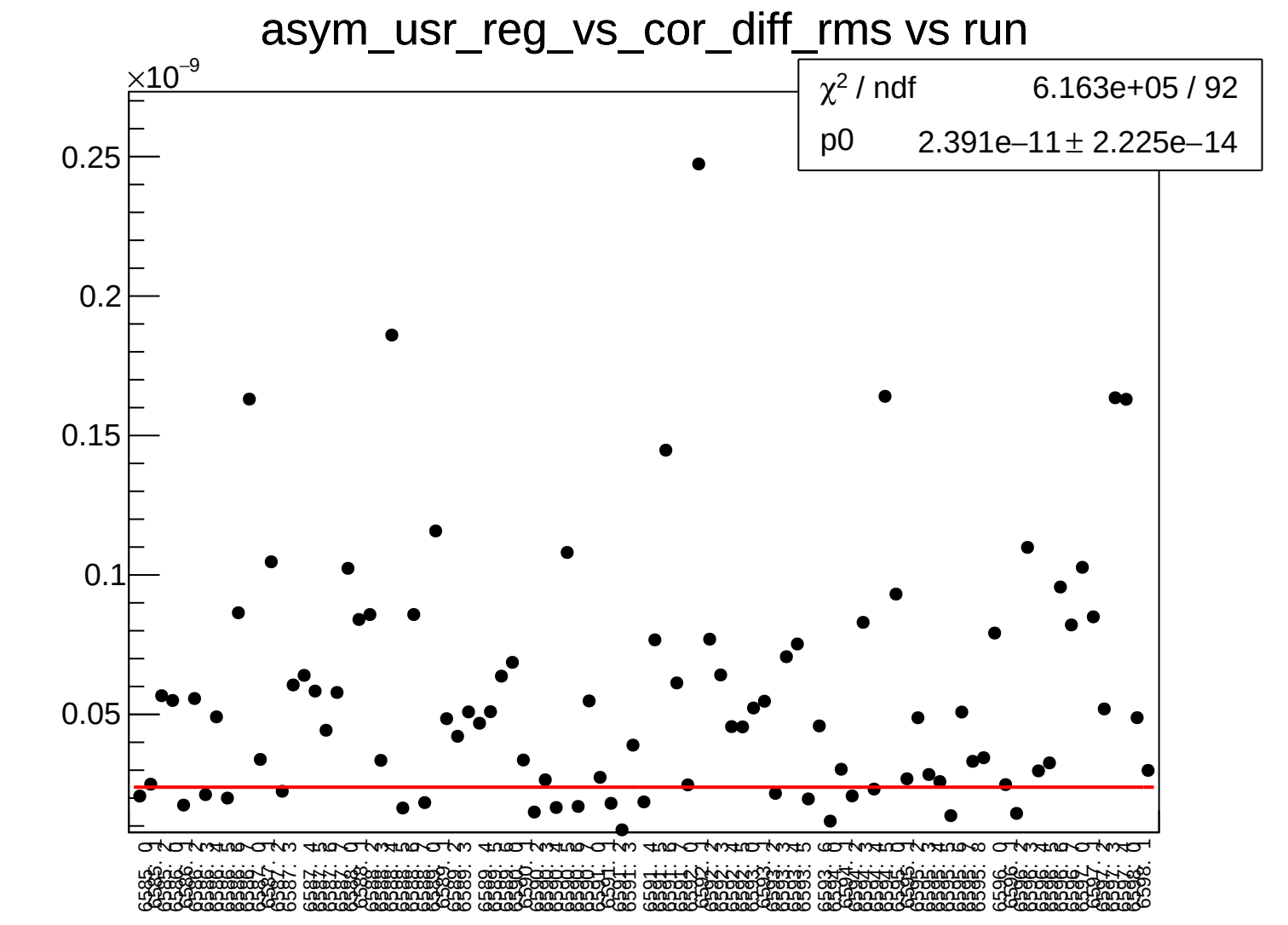

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 1.506e+04 / 92
p0 1380 ± 1.042
1800
1700
1600
1500
1400
1300
1200


asym_usr_mean vs run
χ² / ndf 84.87 / 92
p0 −4080 ± 1893
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 407.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

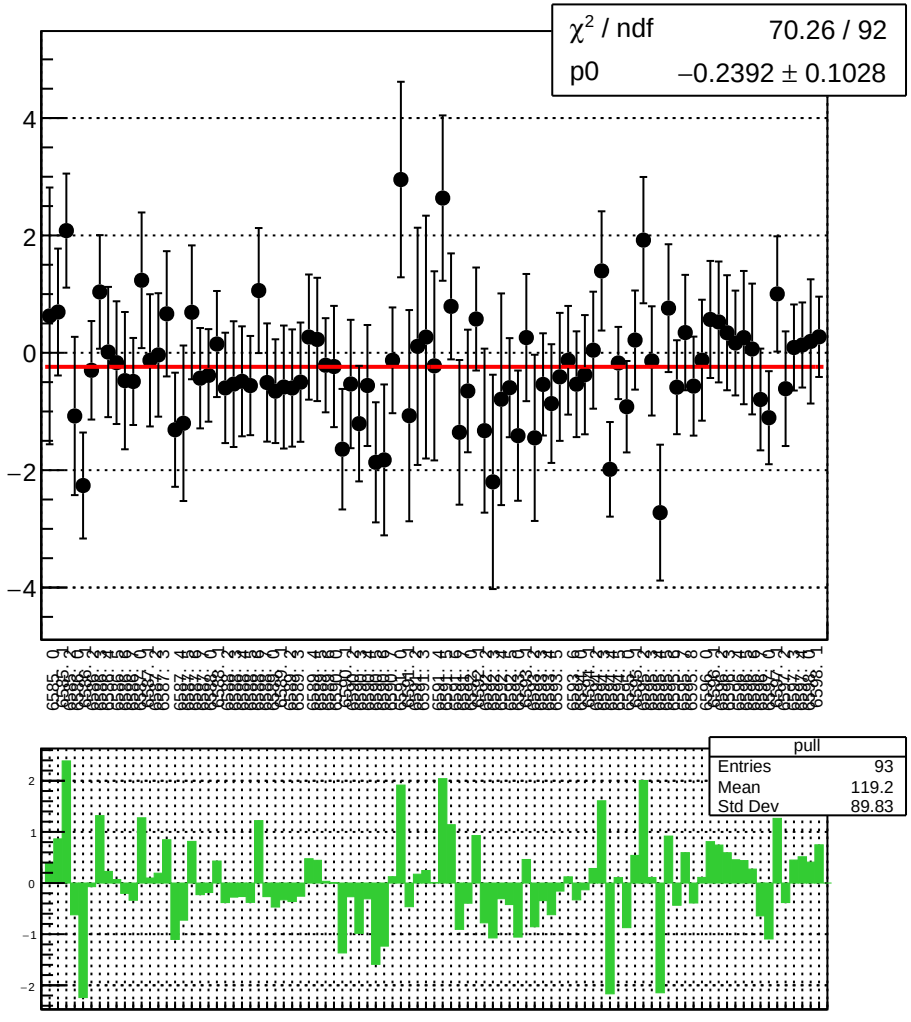

pull1D
Entries 93
Mean 0.006251
Std Dev 0.9553
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

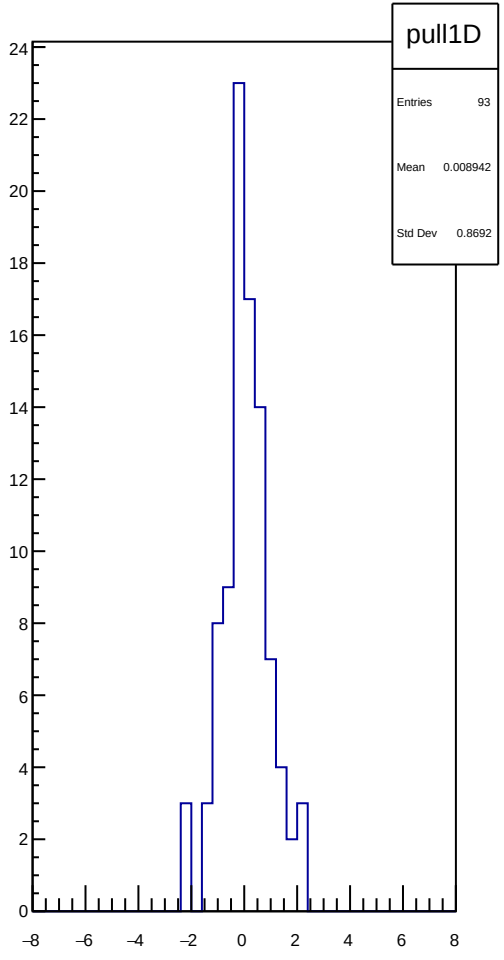

asym_usr_rms vs run
χ² / ndf 6696 / 92
p0 1778 ± 1.339
2100
2000
1900
1800
1700
1600

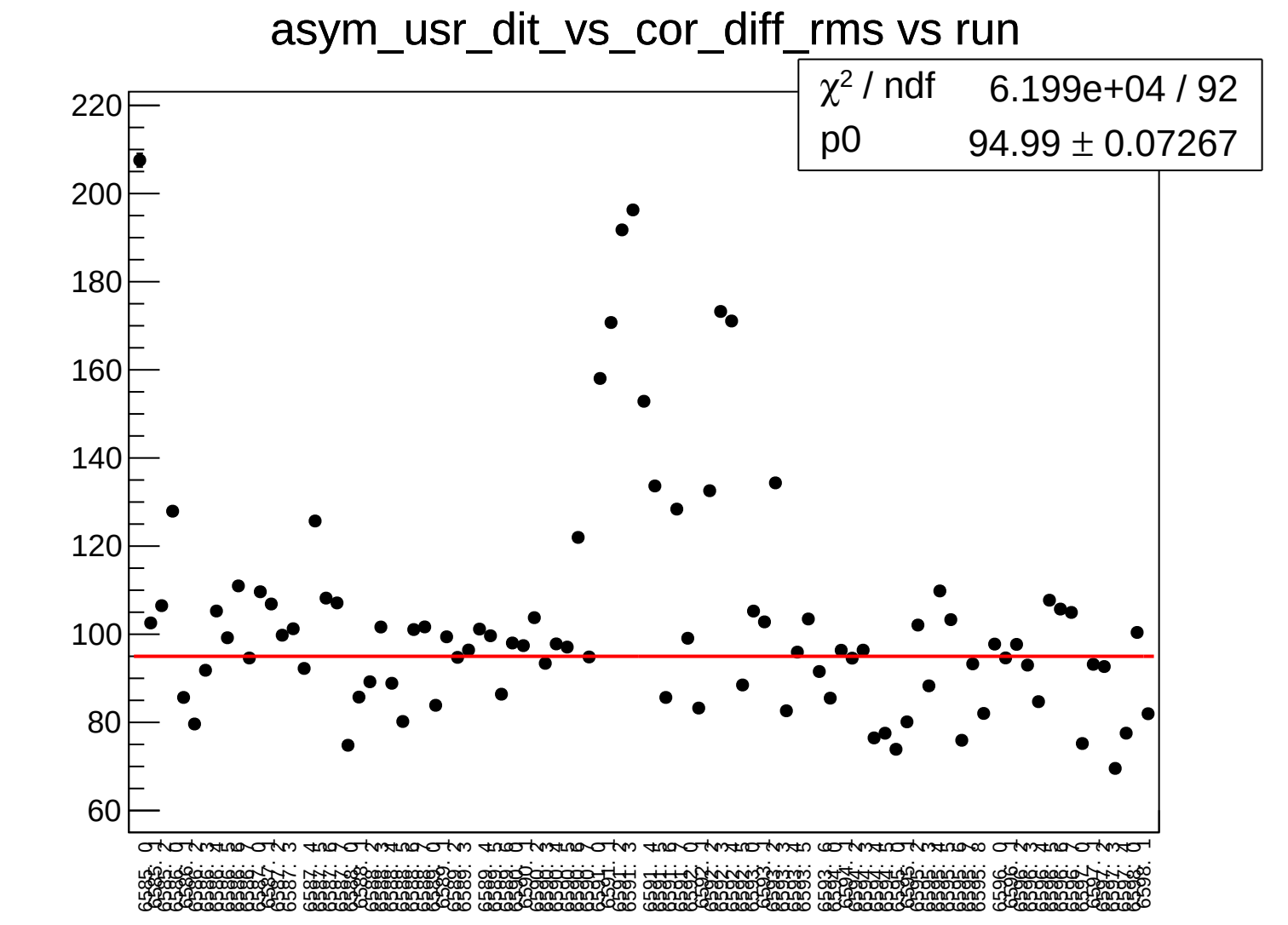

asym_usr_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 97.46 / 92
p0 3.01e−14 ± 3.147e−14
pull
Entries 93
Mean 112.3
Std Dev 0
pull1D
Entries 93
Mean −0.02699
Std Dev 1.023

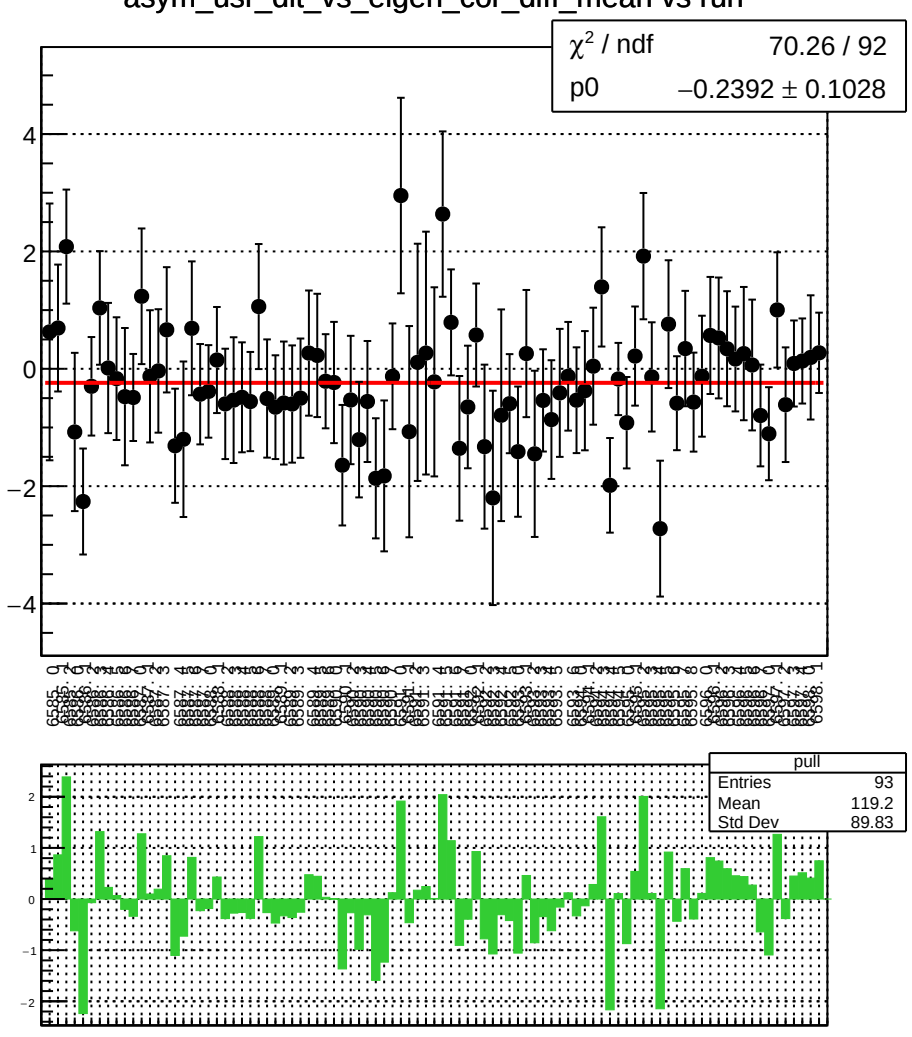

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.163e+05 / 92
p0 2.391e−11 ± 2.225e−14
0.25
0.2
0.15
0.1
0.05

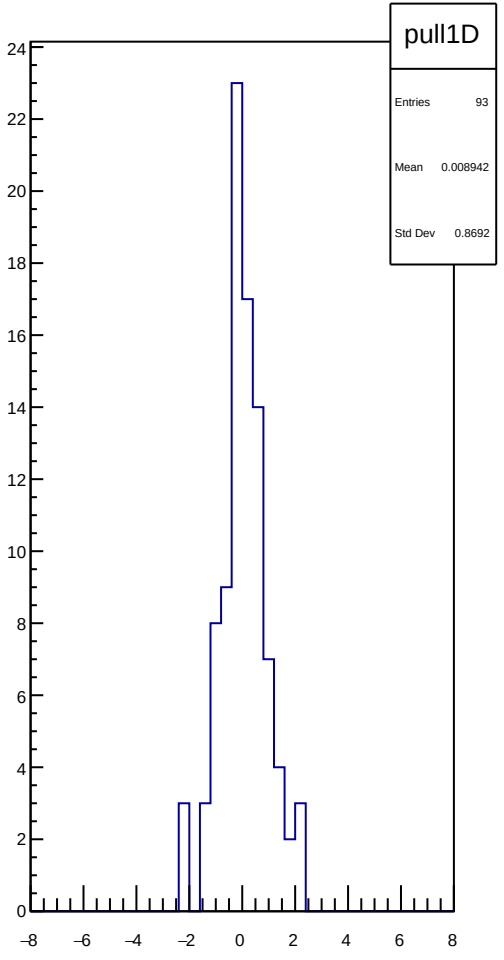
asym_usr_dit_vs_cor_diff_mean vs run

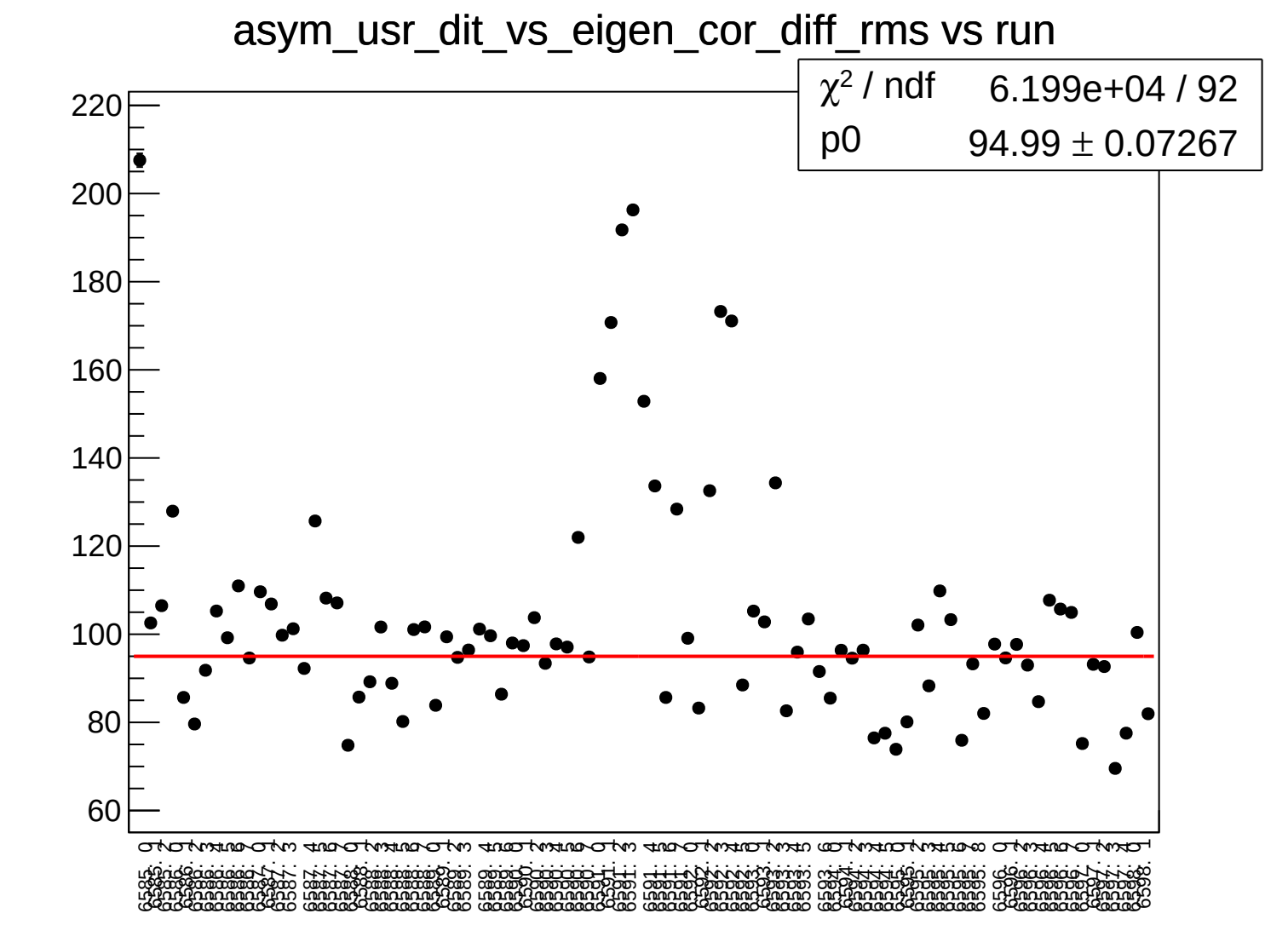


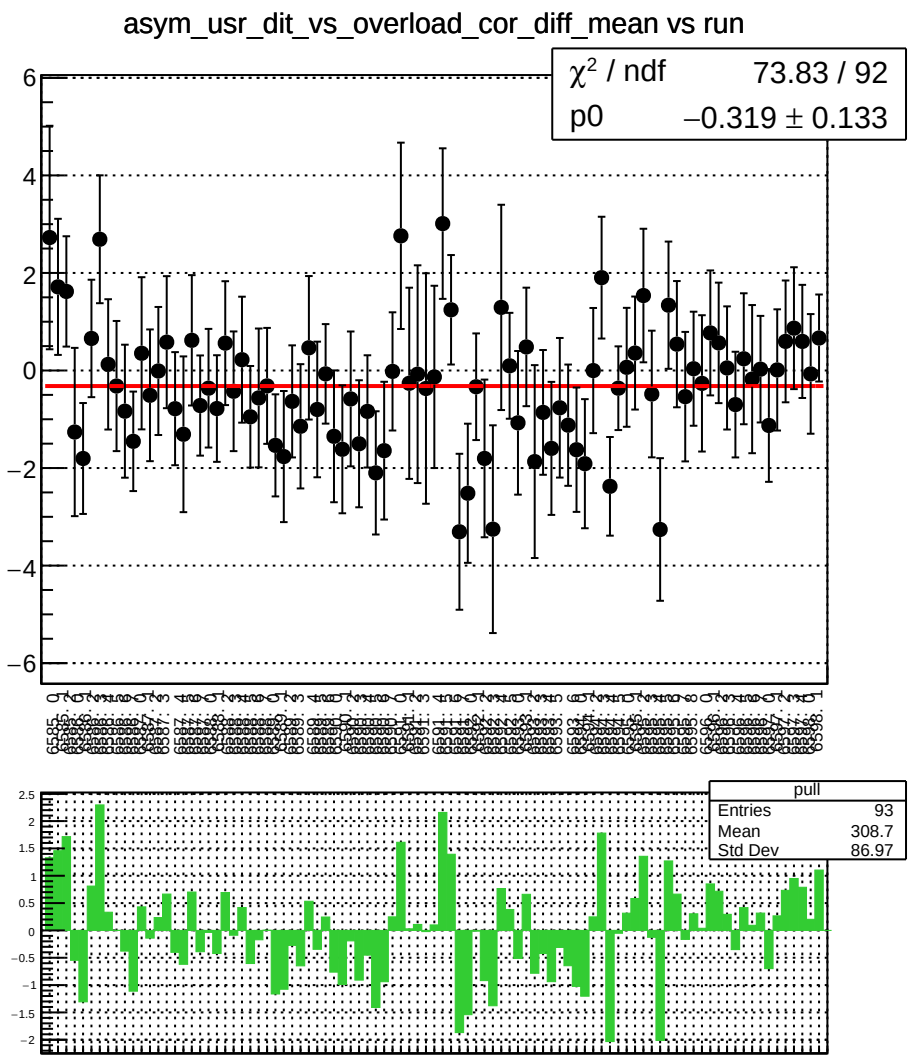


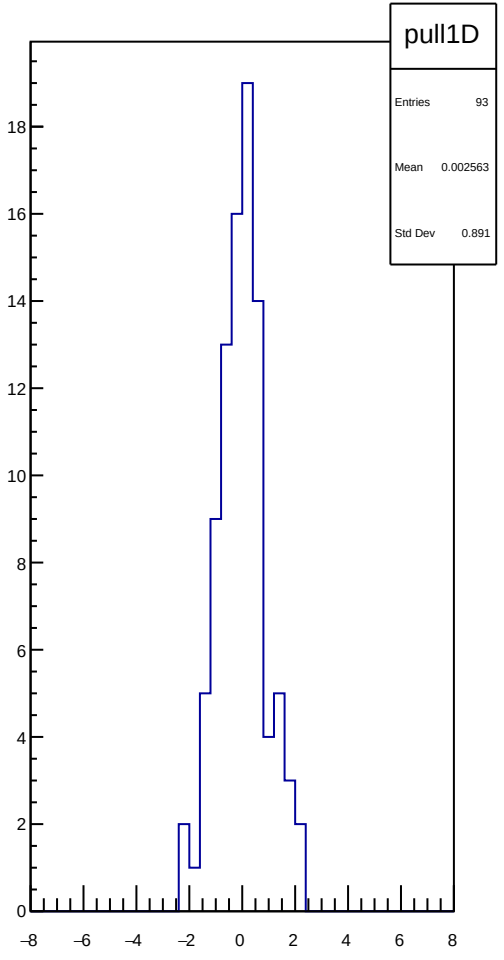

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 6.199e+04 / 92
p0 94.99 ± 0.07267
220
200
180
160
140
120
100
80
60

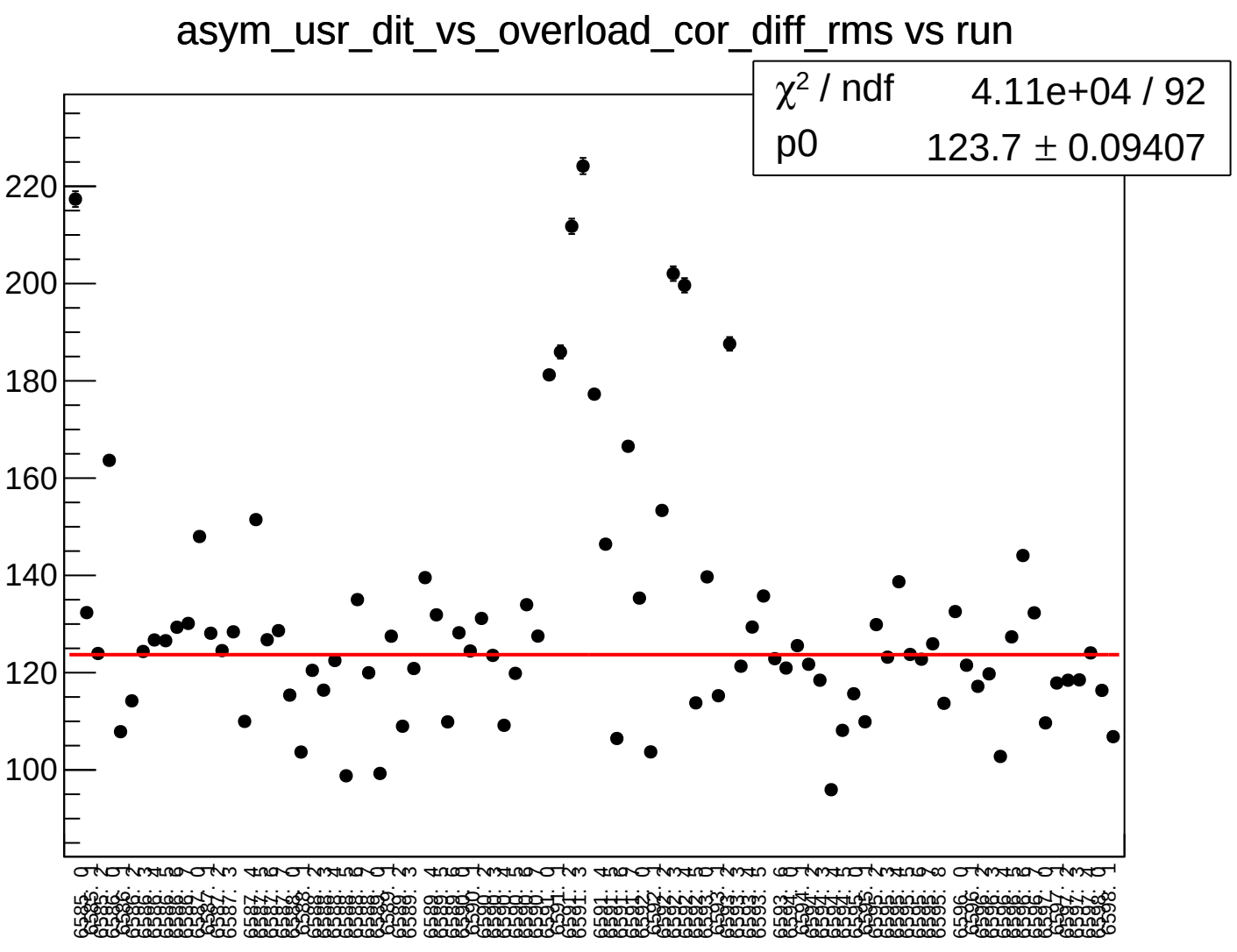

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.26 / 92
p0 −0.2392 ± 0.1028
pull
Entries 93
Mean 119.2
Std Dev 89.83

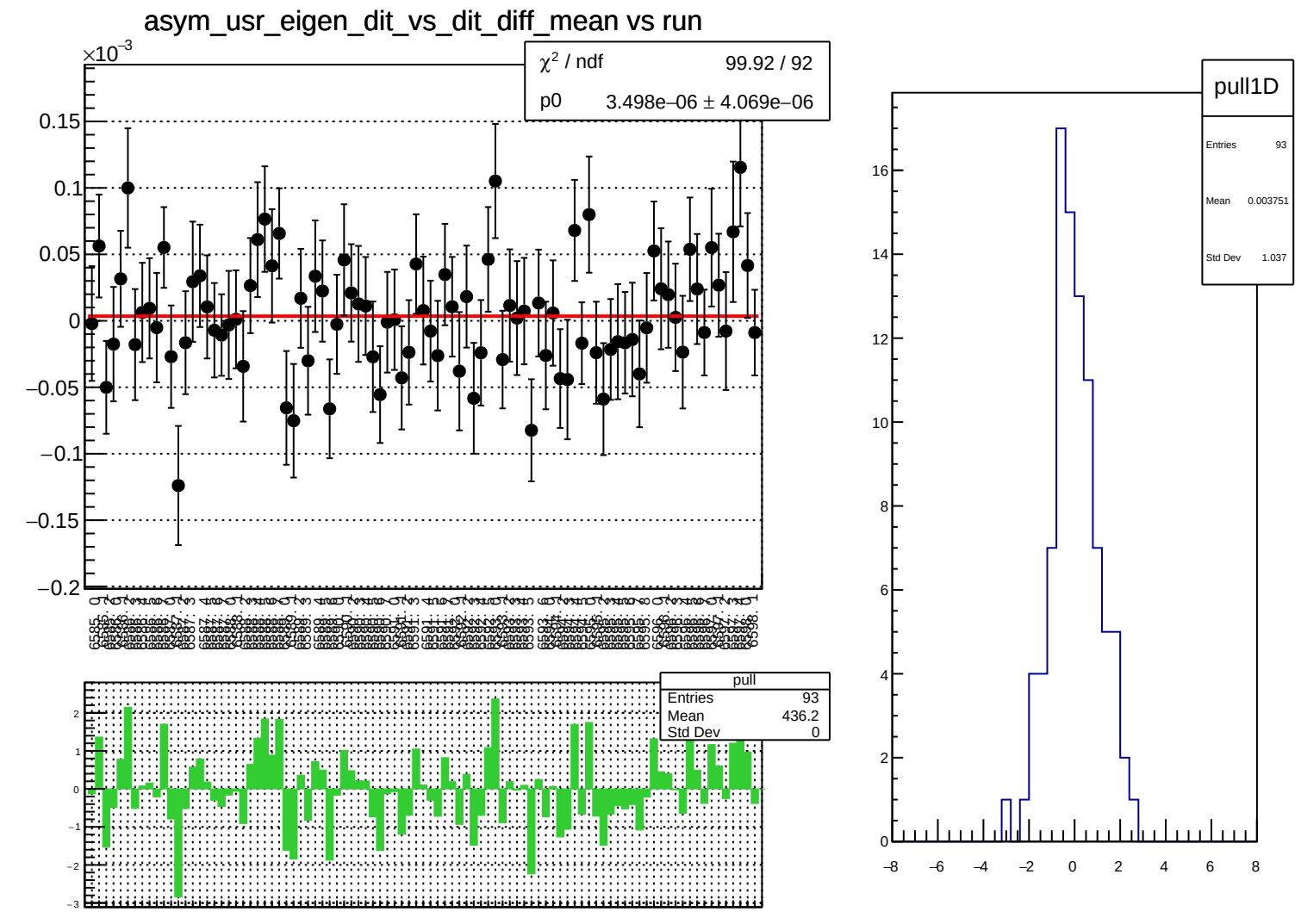

pull1D
Entries 93
Mean 0.008942
Std Dev 0.8692

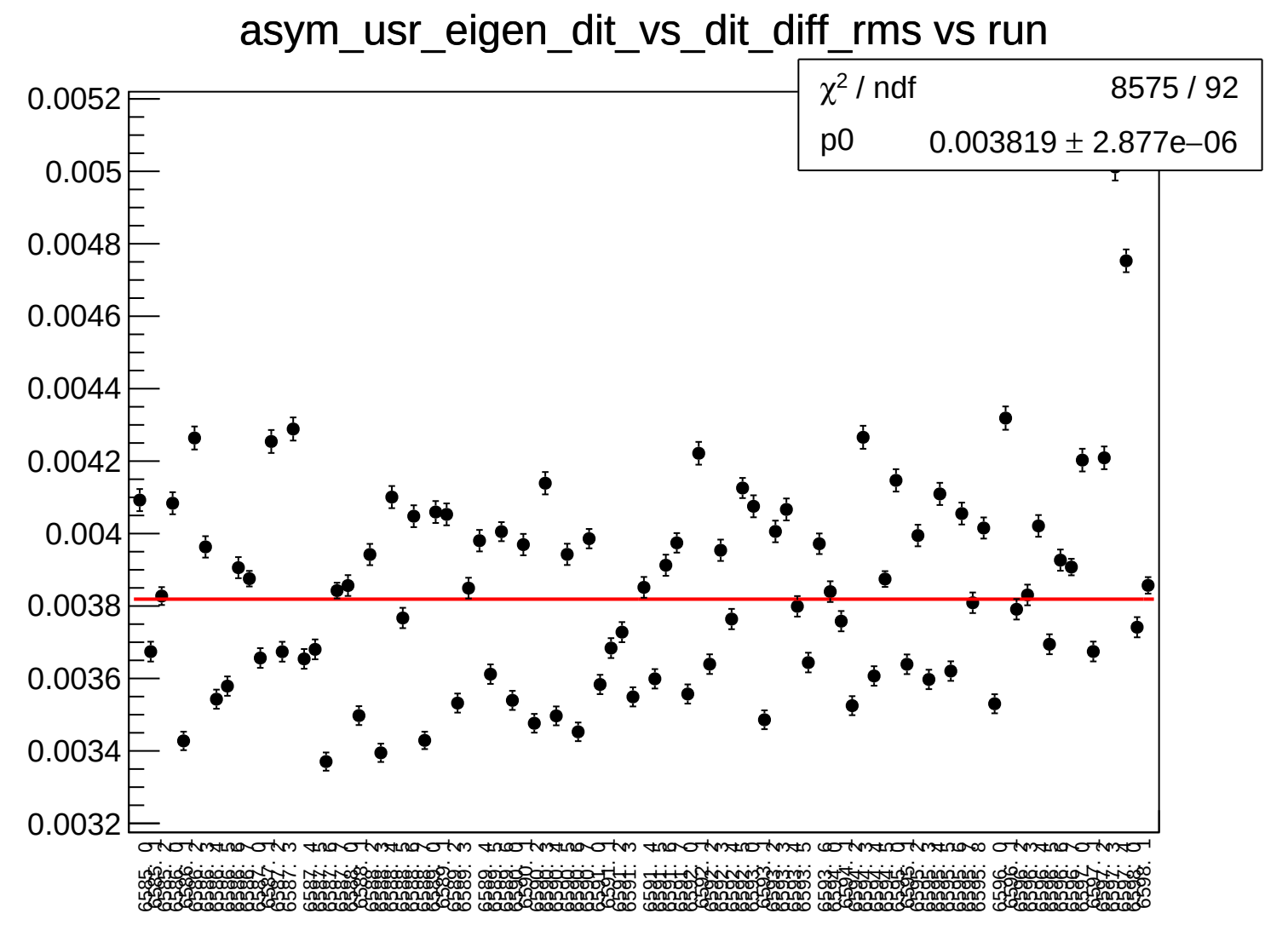

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.199e+04 / 92
p0 94.99 ± 0.07267
220
200
180
160
140
120
100
80
60

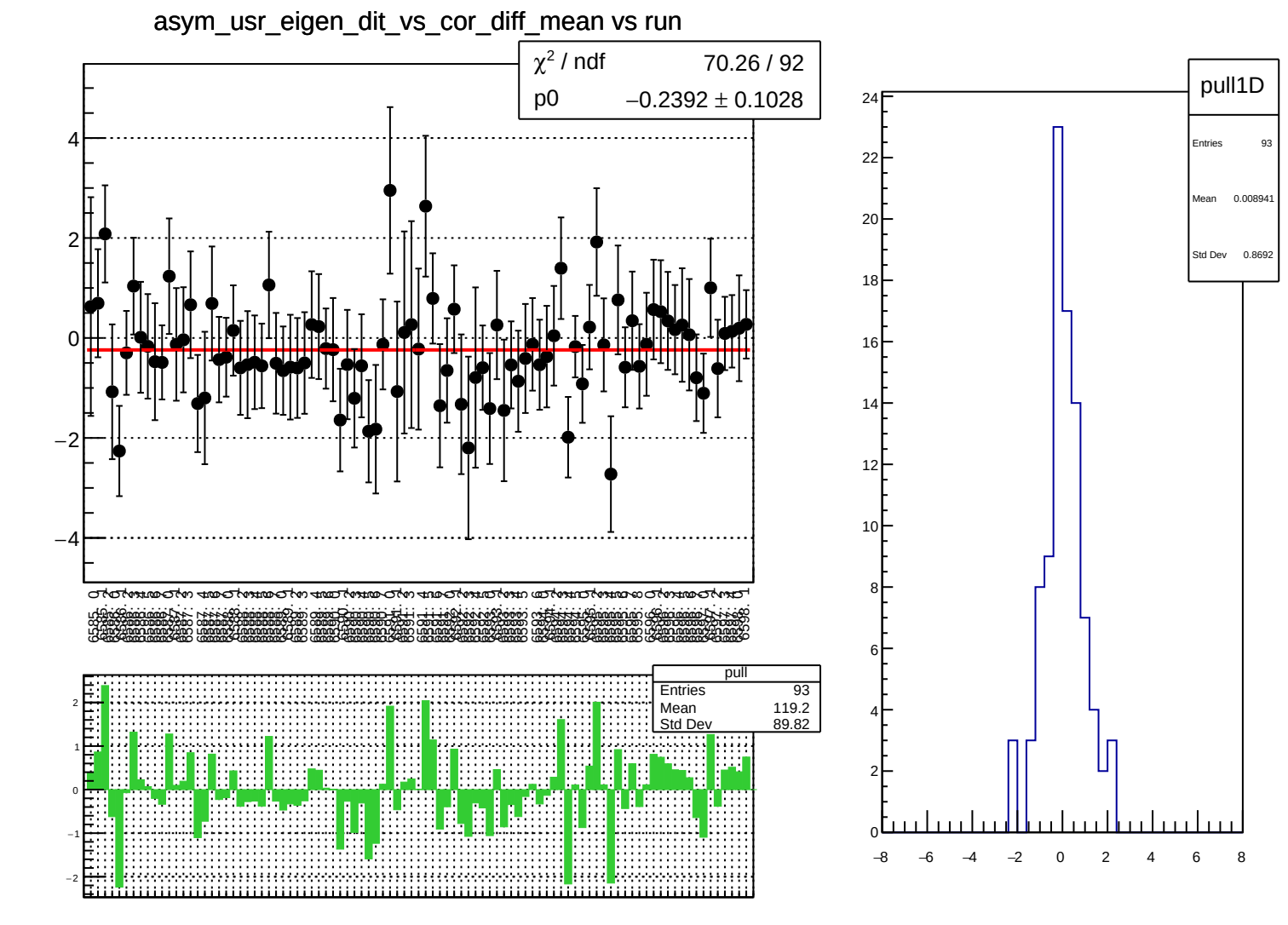

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 73.83 / 92
p0 −0.319 ± 0.133
pull
Entries 93
Mean 308.7
Std Dev 86.97

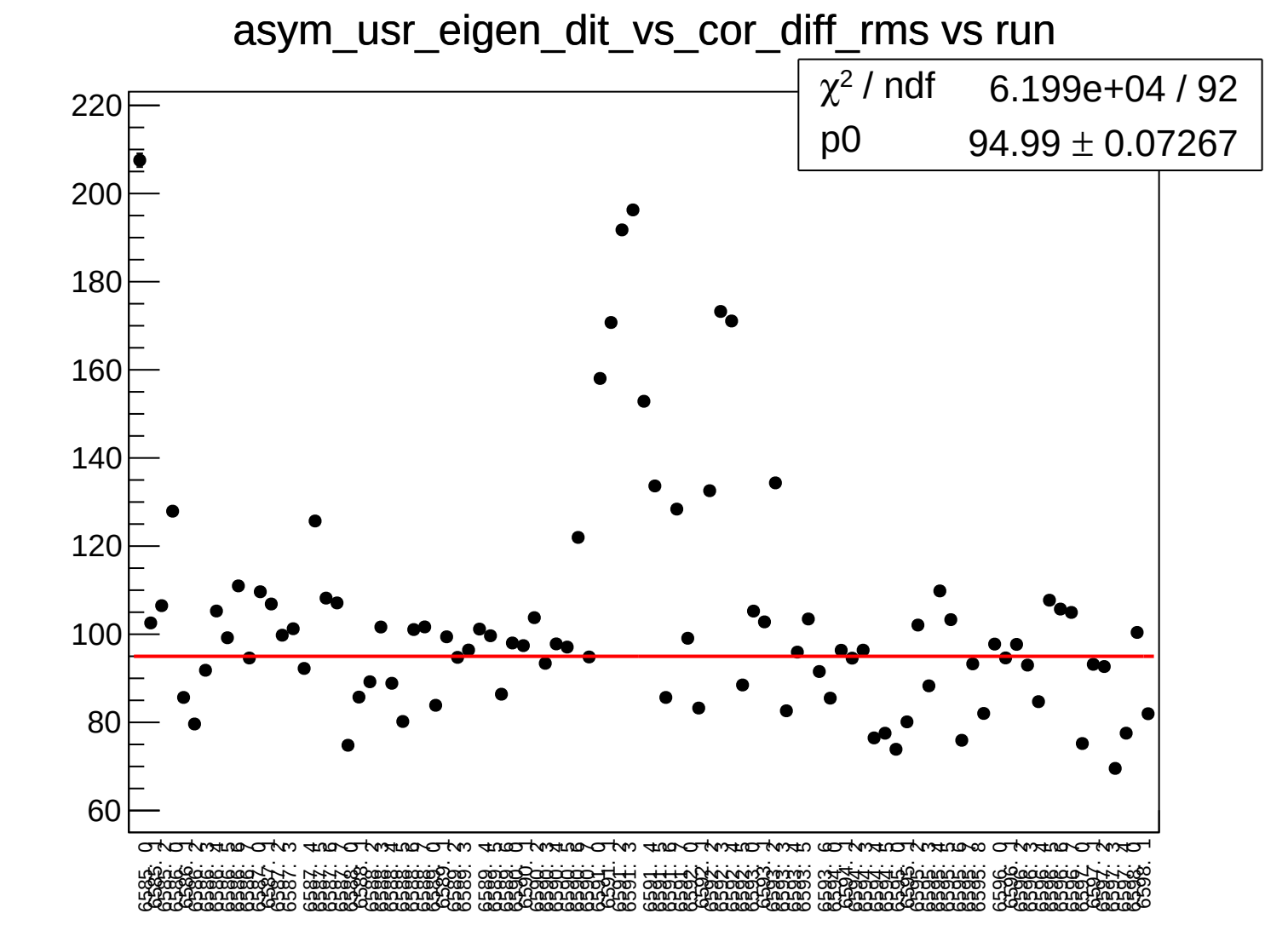

pull1D
Entries 93
Mean 0.002563
Std Dev 0.891

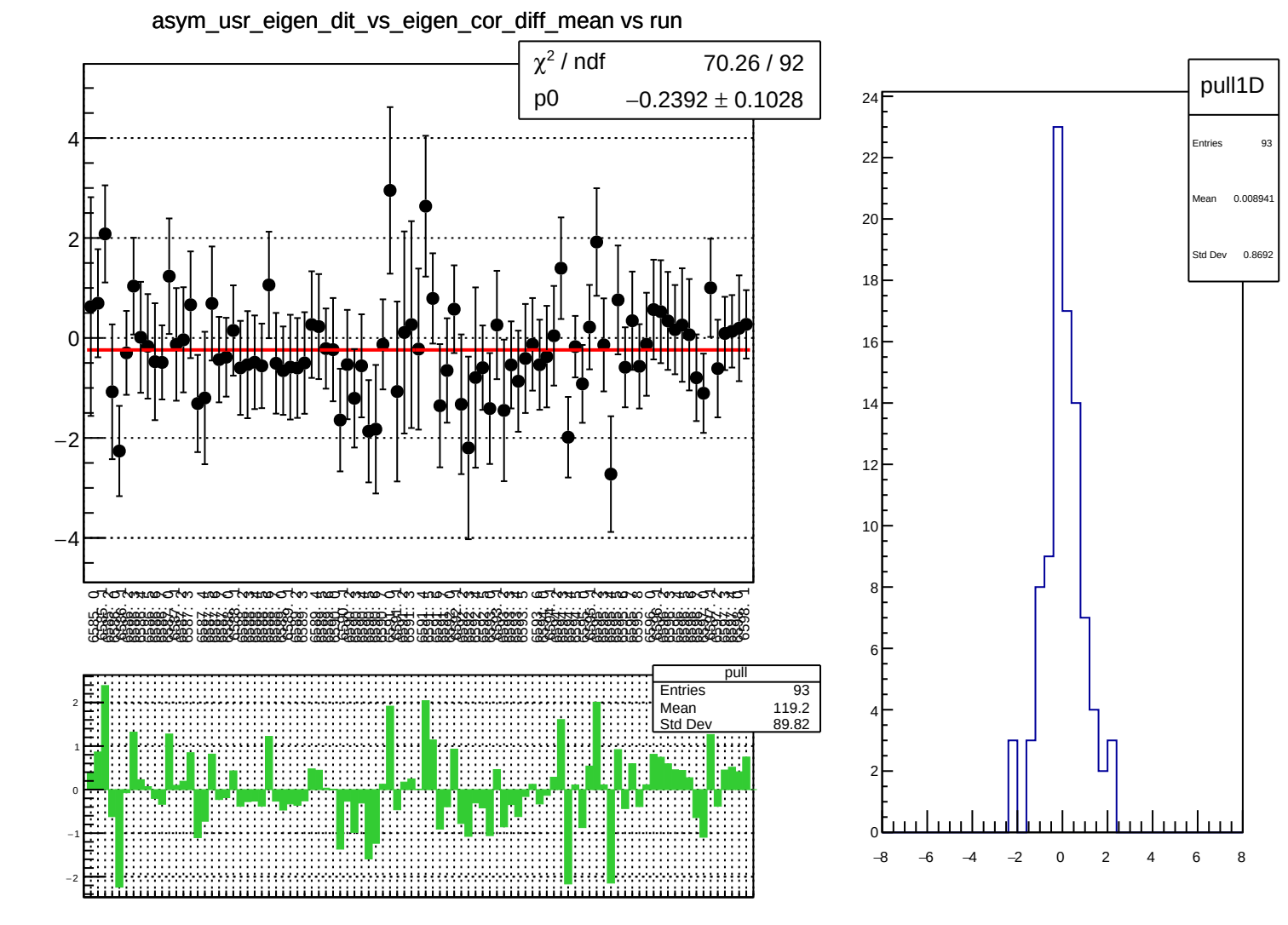

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.11e+04 / 92
p0 123.7 ± 0.09407
220
200
180
160
140
120
100

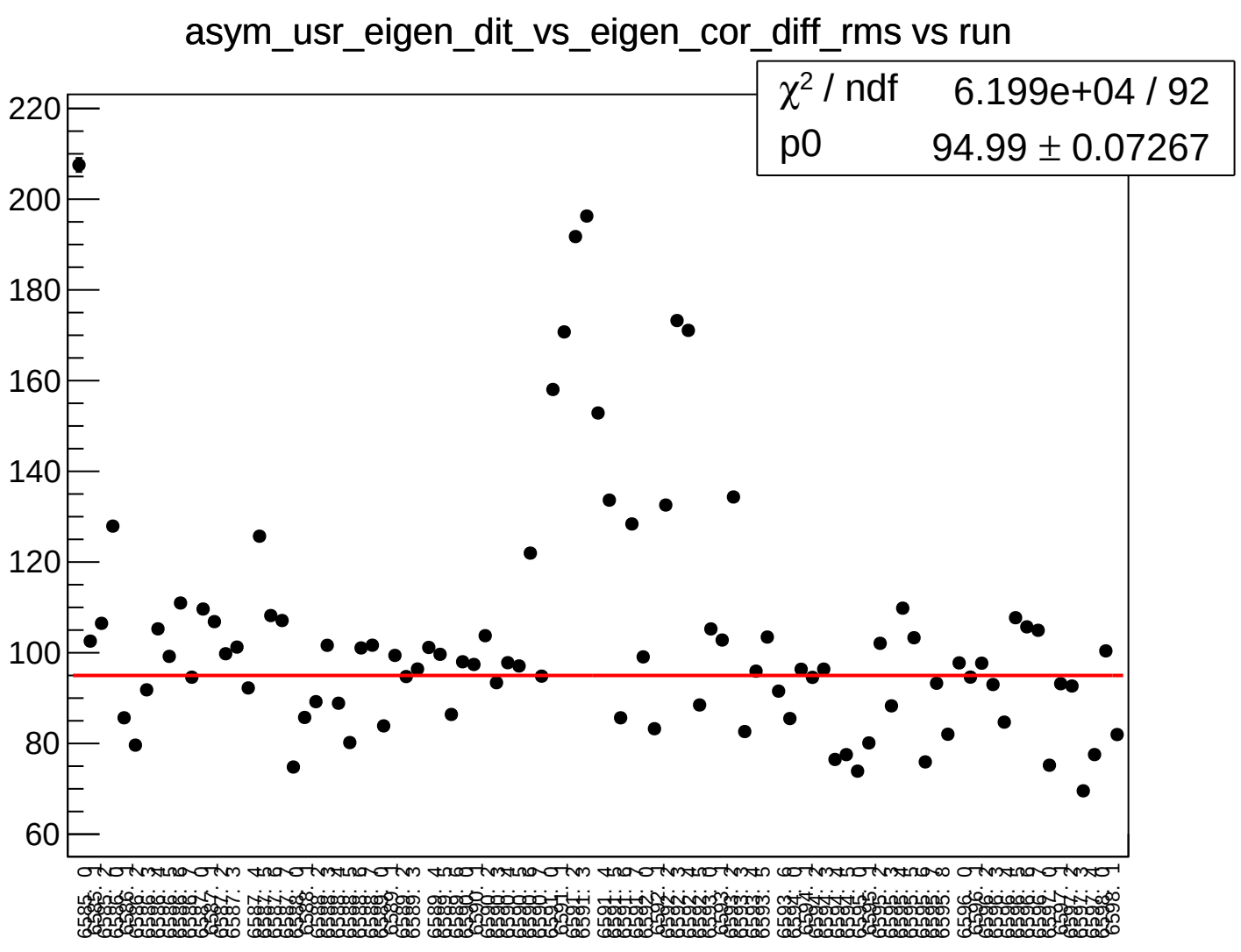

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.92 / 92
p0 3.498e−06 ± 4.069e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 93
Mean 436.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.003751
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

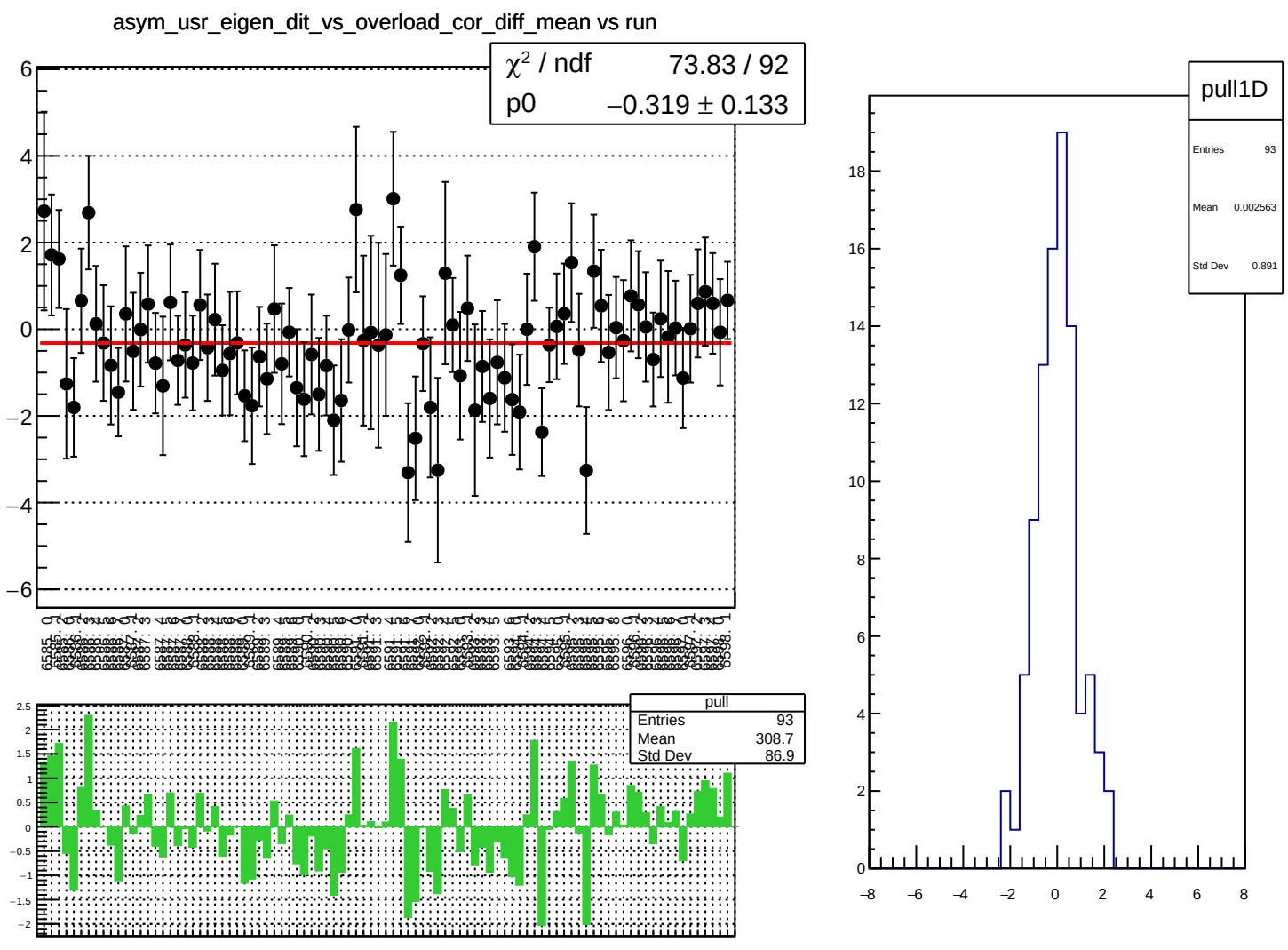

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8575 / 92
p0 0.003819 ± 2.877e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

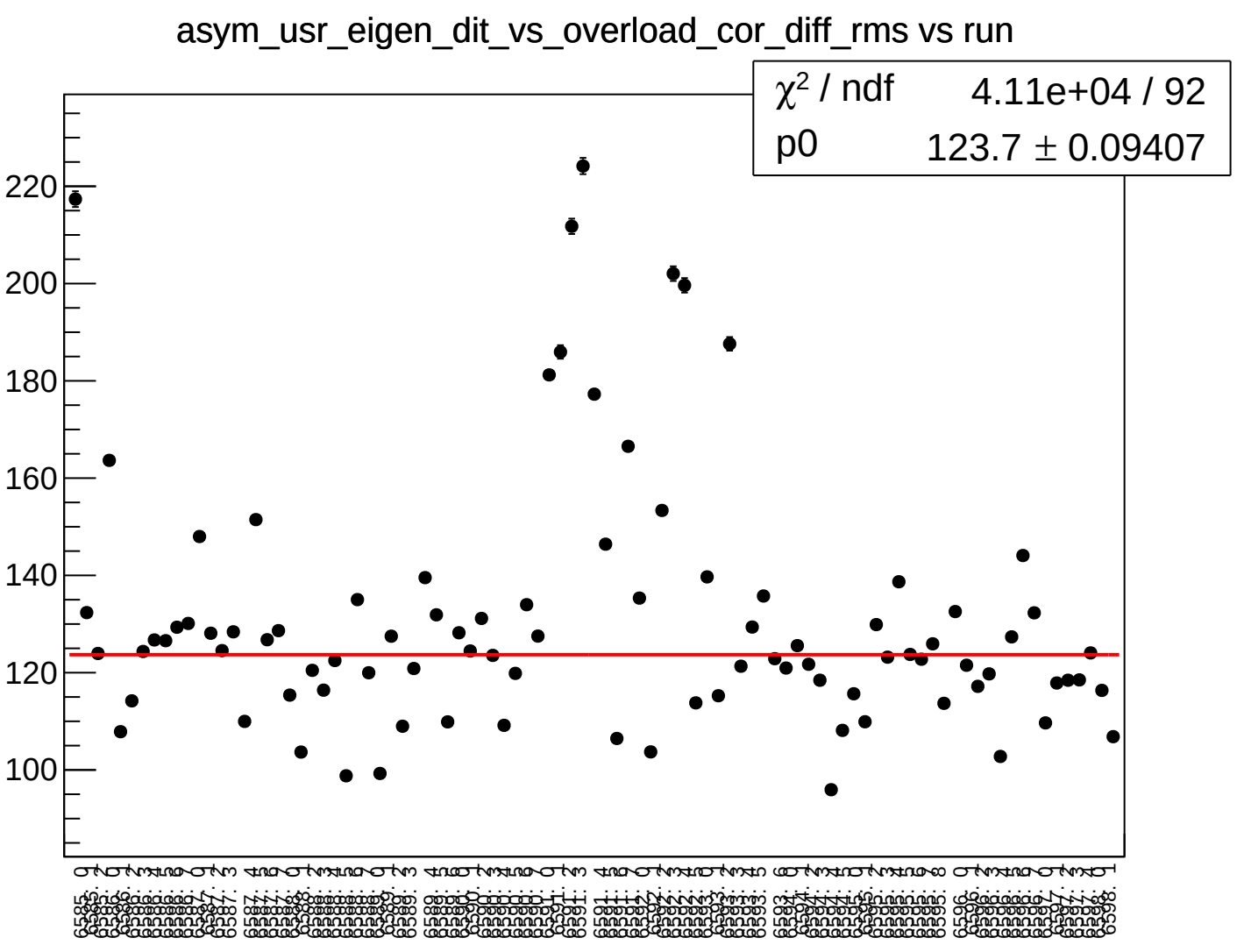

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.26 / 92
p0 −0.2392 ± 0.1028
pull
Entries 93
Mean 119.2
Std Dev 89.82
pull1D
Entries 93
Mean 0.008941
Std Dev 0.8692

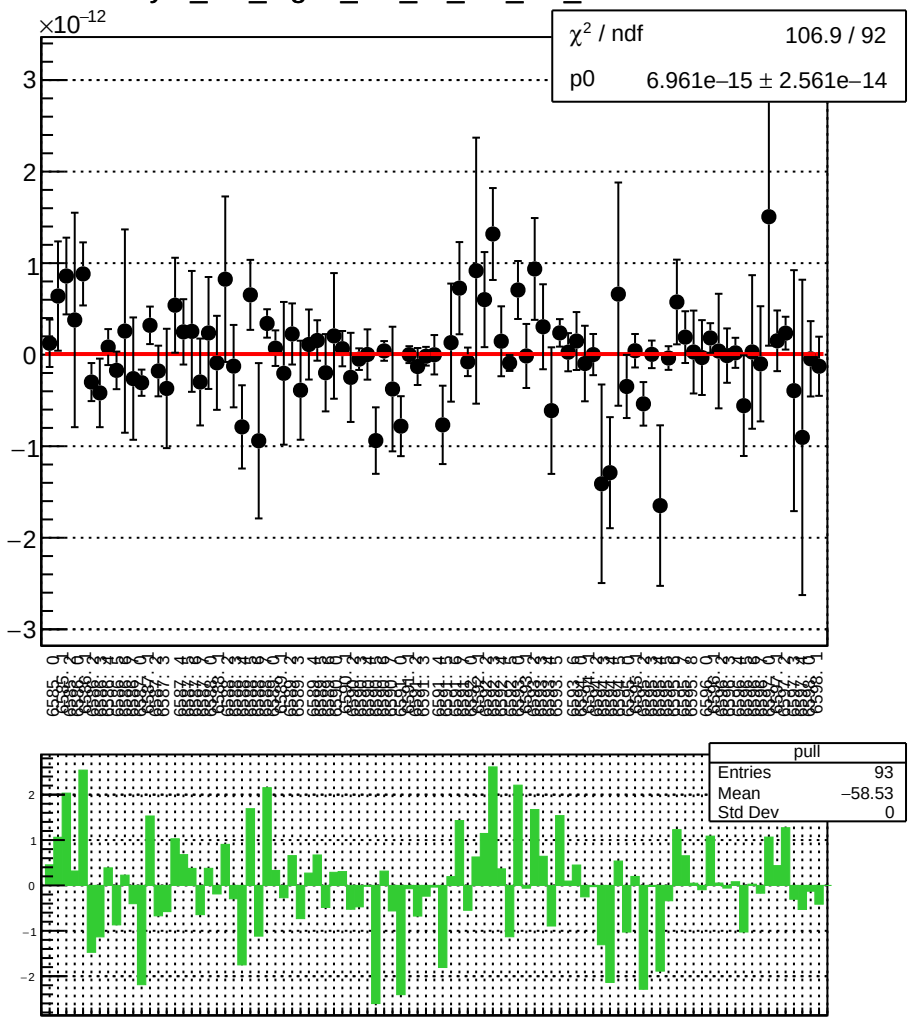

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.199e+04 / 92
p0 94.99 ± 0.07267
220
200
180
160
140
120
100
80
60

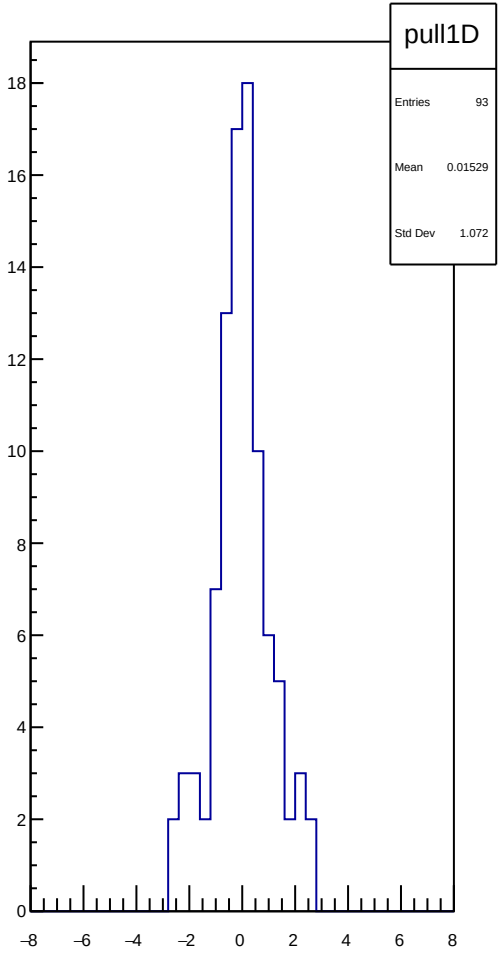

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.26 / 92
p0 −0.2392 ± 0.1028
pull
Entries 93
Mean 119.2
Std Dev 89.82
pull1D
Entries 93
Mean 0.008941
Std Dev 0.8692

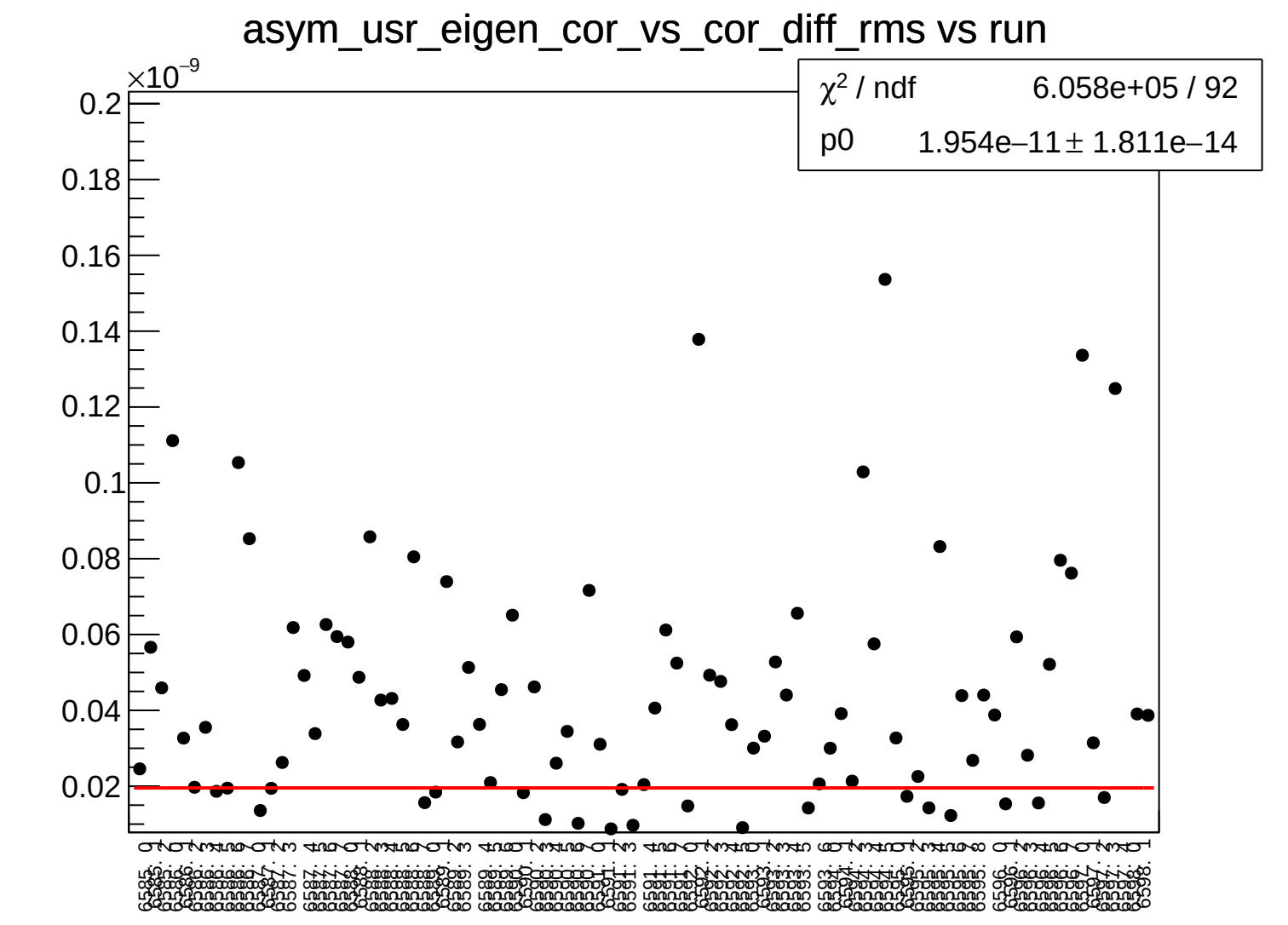

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.199e+04 / 92
p0 94.99 ± 0.07267
220
200
180
160
140
120
100
80
60

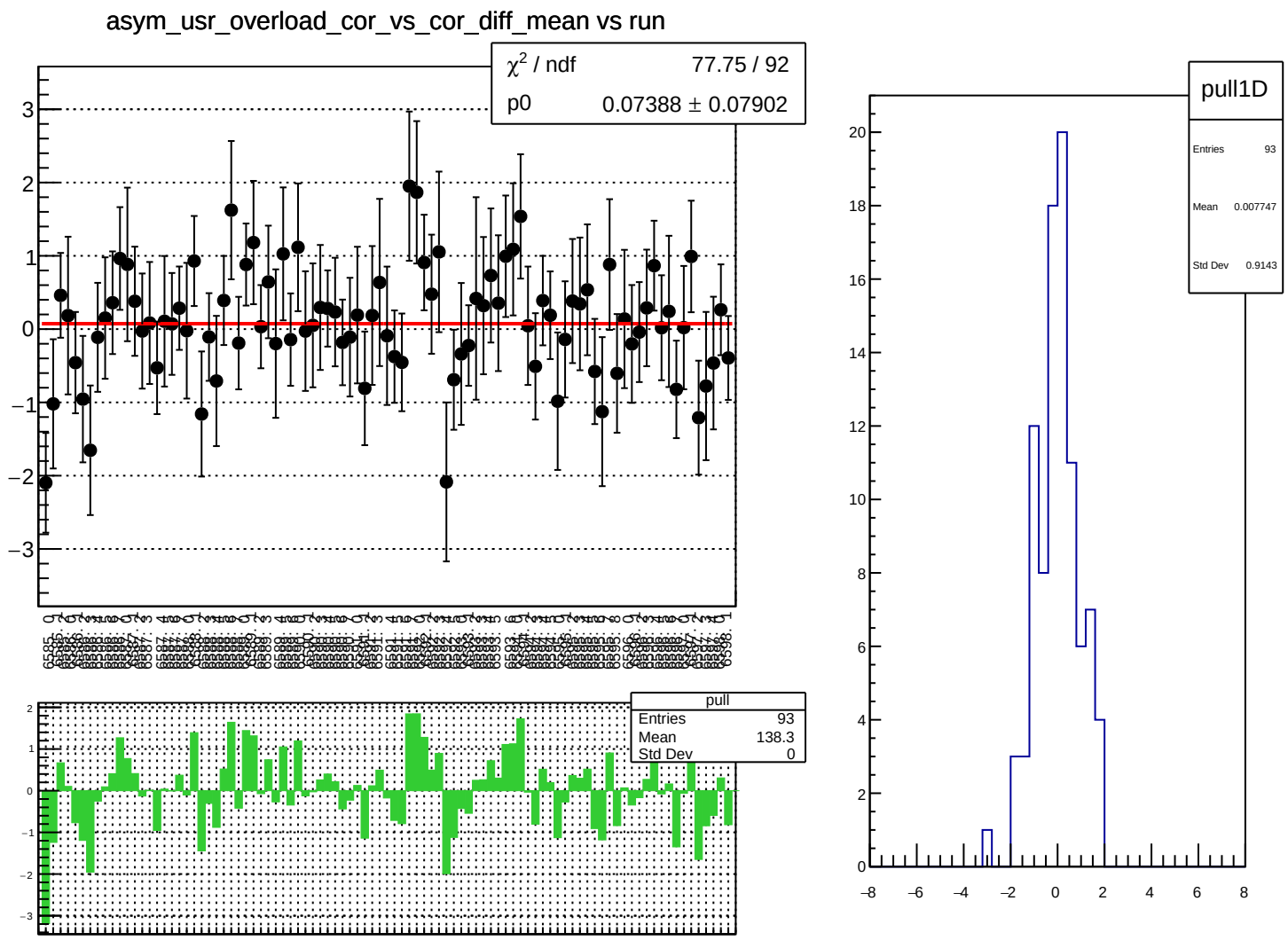

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 73.83 / 92
p0 −0.319 ± 0.133
pull
Entries 93
Mean 308.7
Std Dev 86.9
pull1D
Entries 93
Mean 0.002563
Std Dev 0.891

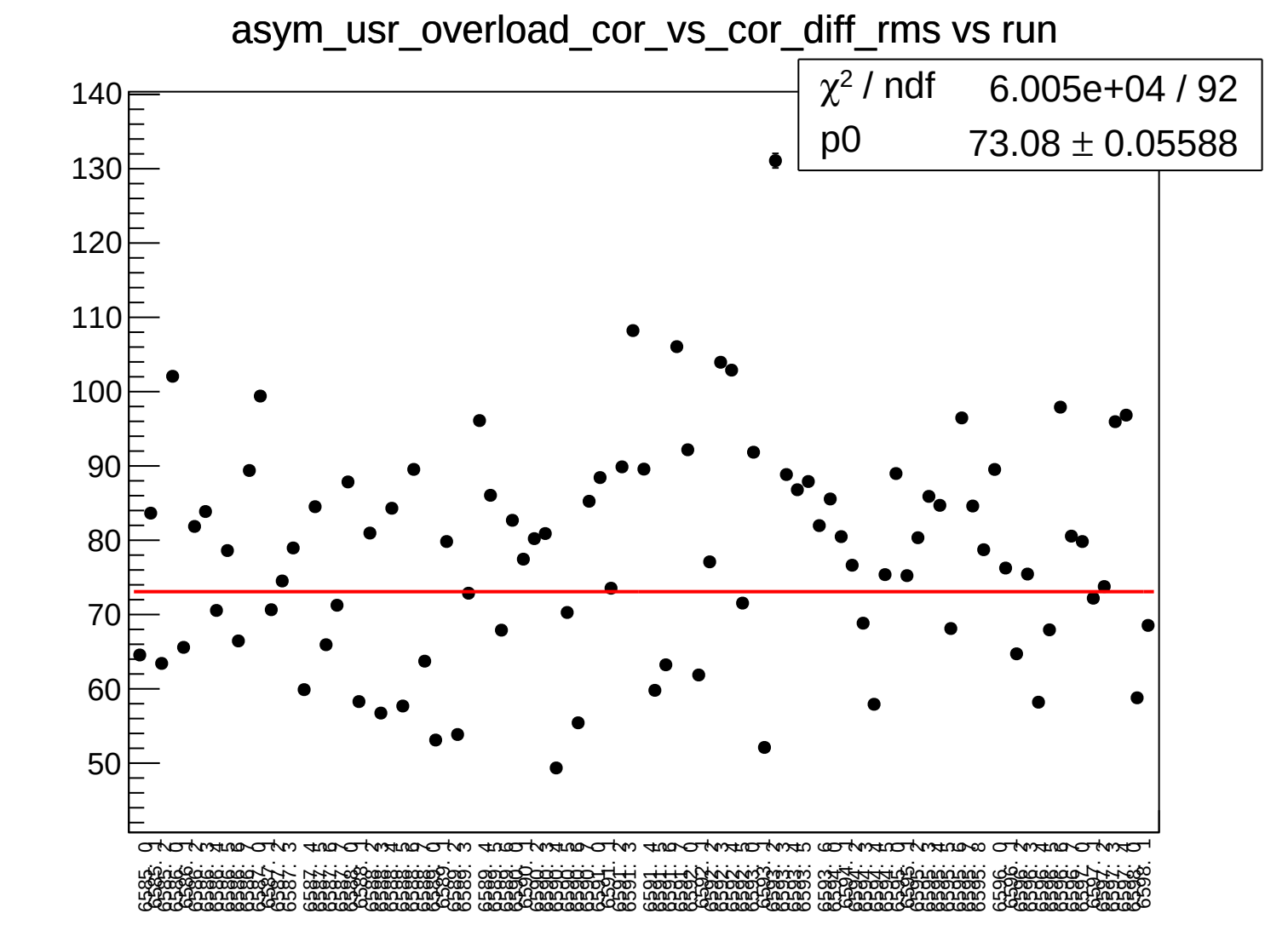

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.11e+04 / 92
p0 123.7 ± 0.09407
220
200
180
160
140
120
100

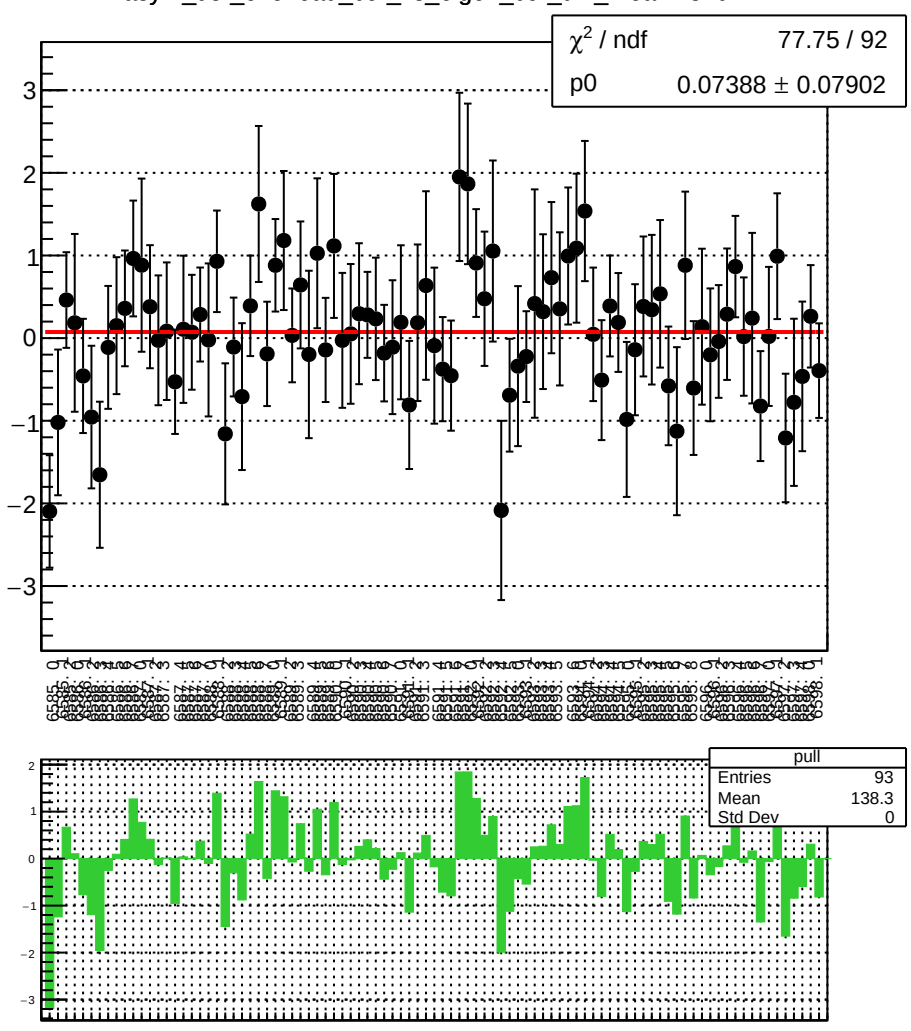

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.9 / 92
p0 6.961e−15 ± 2.561e−14
pull
Entries 93
Mean −58.53
Std Dev 0

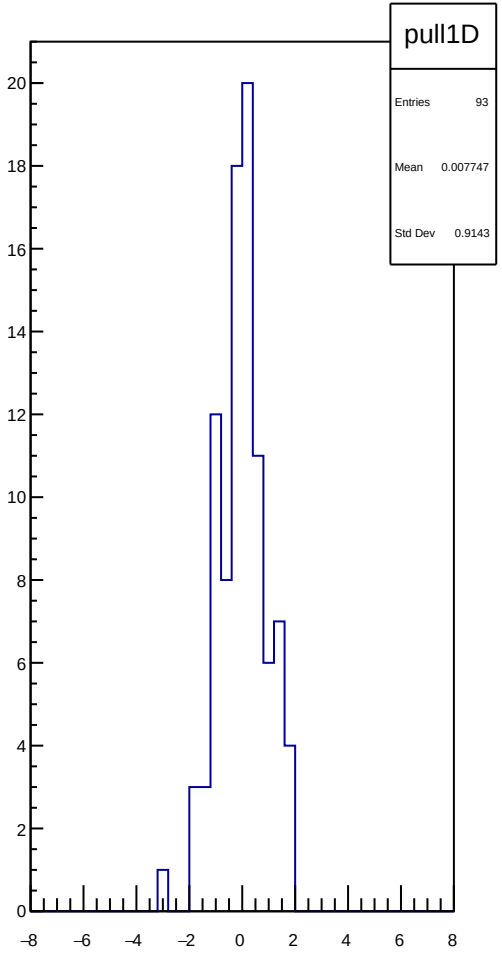

pull1D
Entries 93
Mean 0.01529
Std Dev 1.072

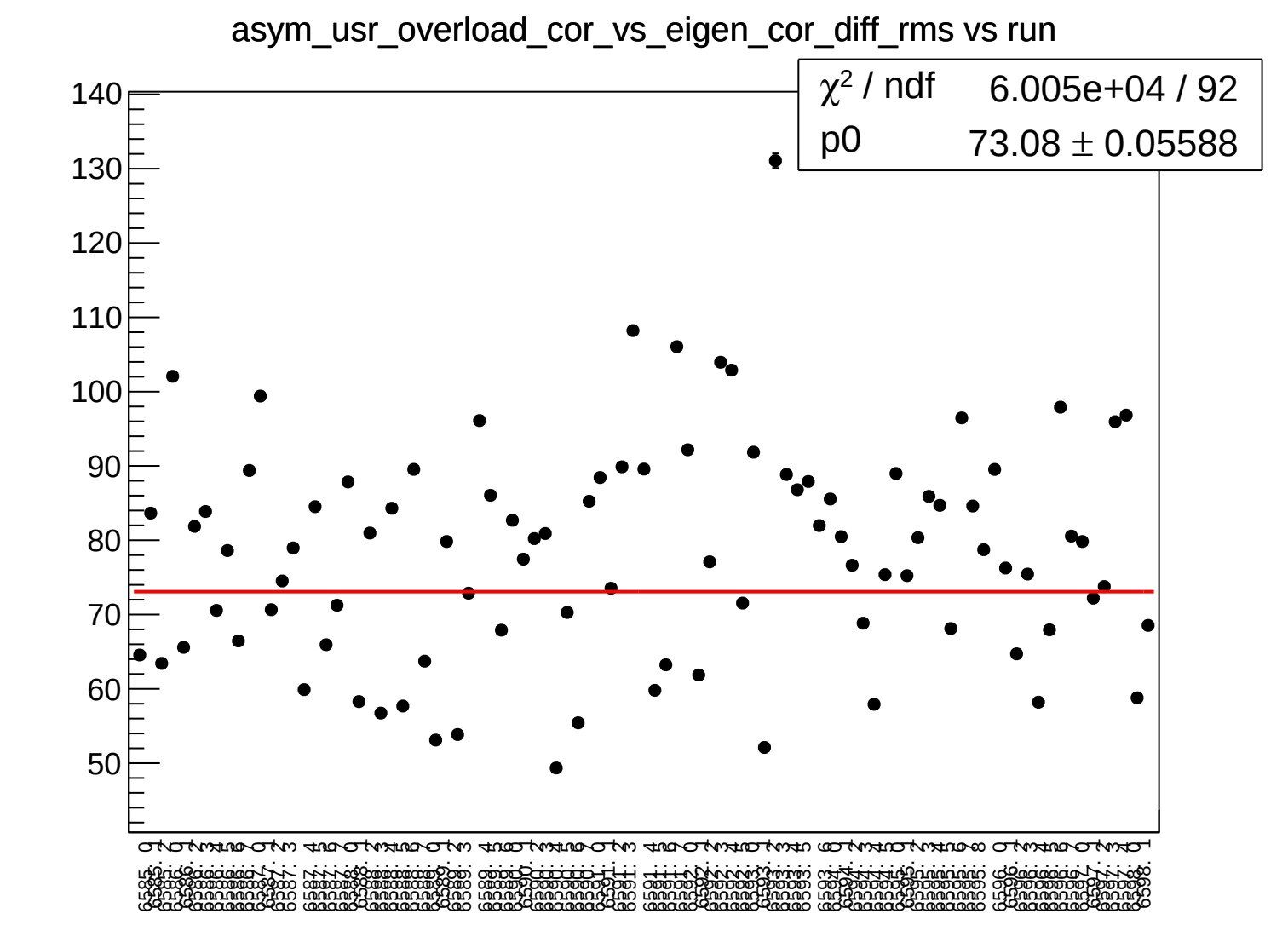

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.058e+05 / 92
p0 1.954e−11 ± 1.811e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

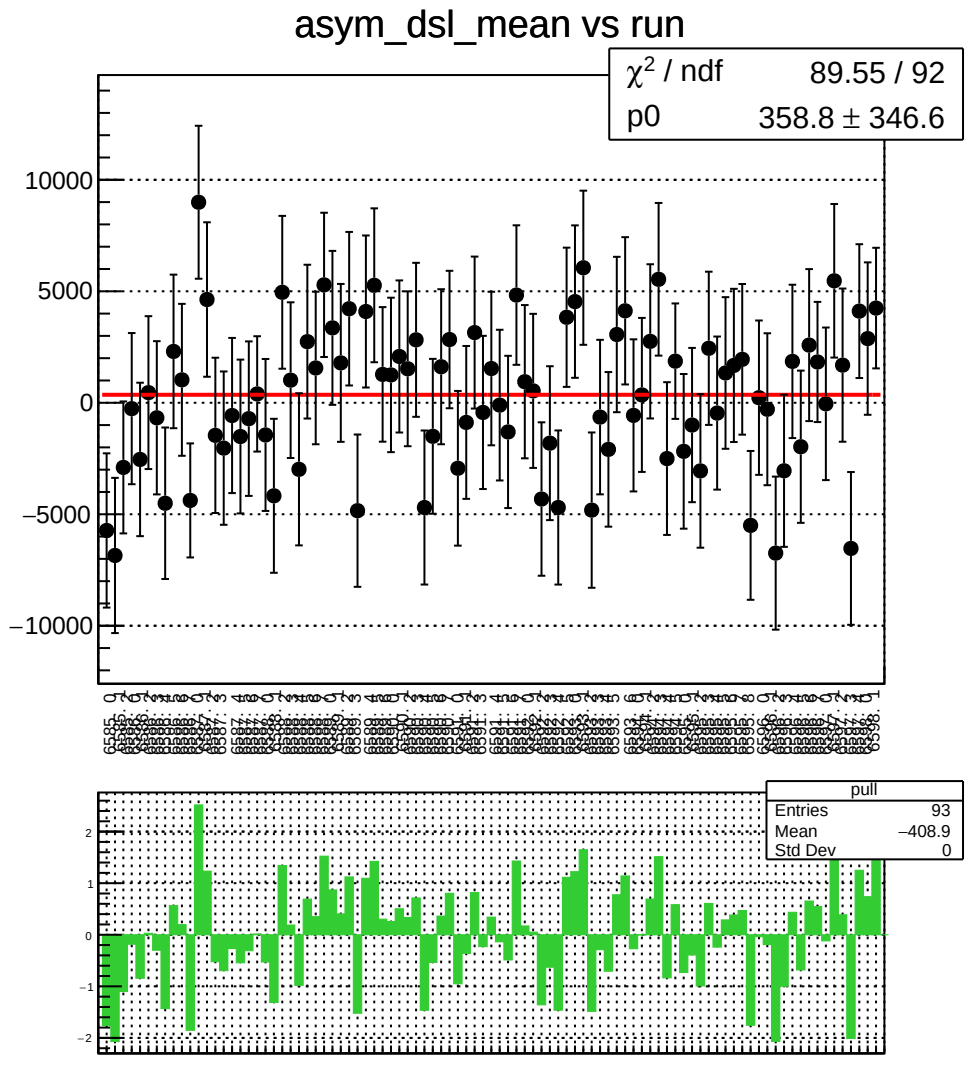

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 77.75 / 92
p0 0.07388 ± 0.07902
pull
Entries 93
Mean 138.3
Std Dev 0
pull1D
Entries 93
Mean 0.007747
Std Dev 0.9143

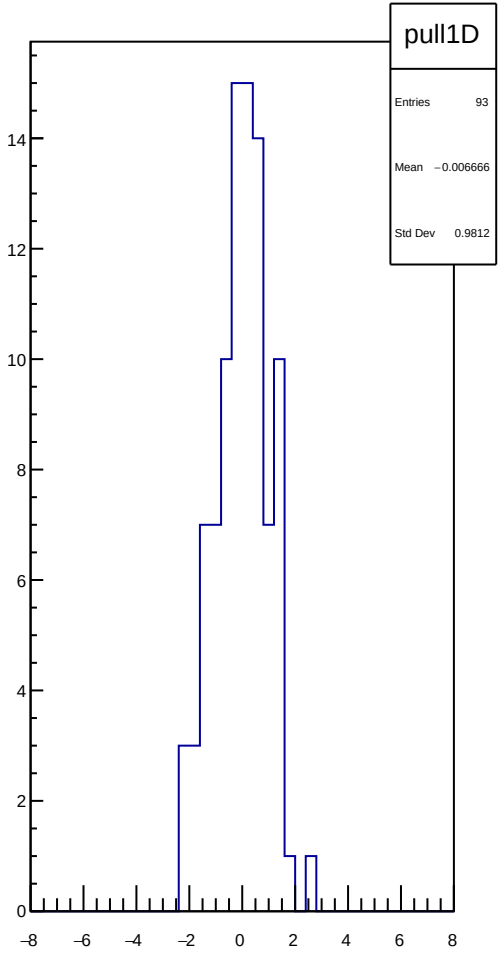

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 6.005e+04 / 92
p0 73.08 ± 0.05588
140
130
120
110
100
90
80
70
60
50

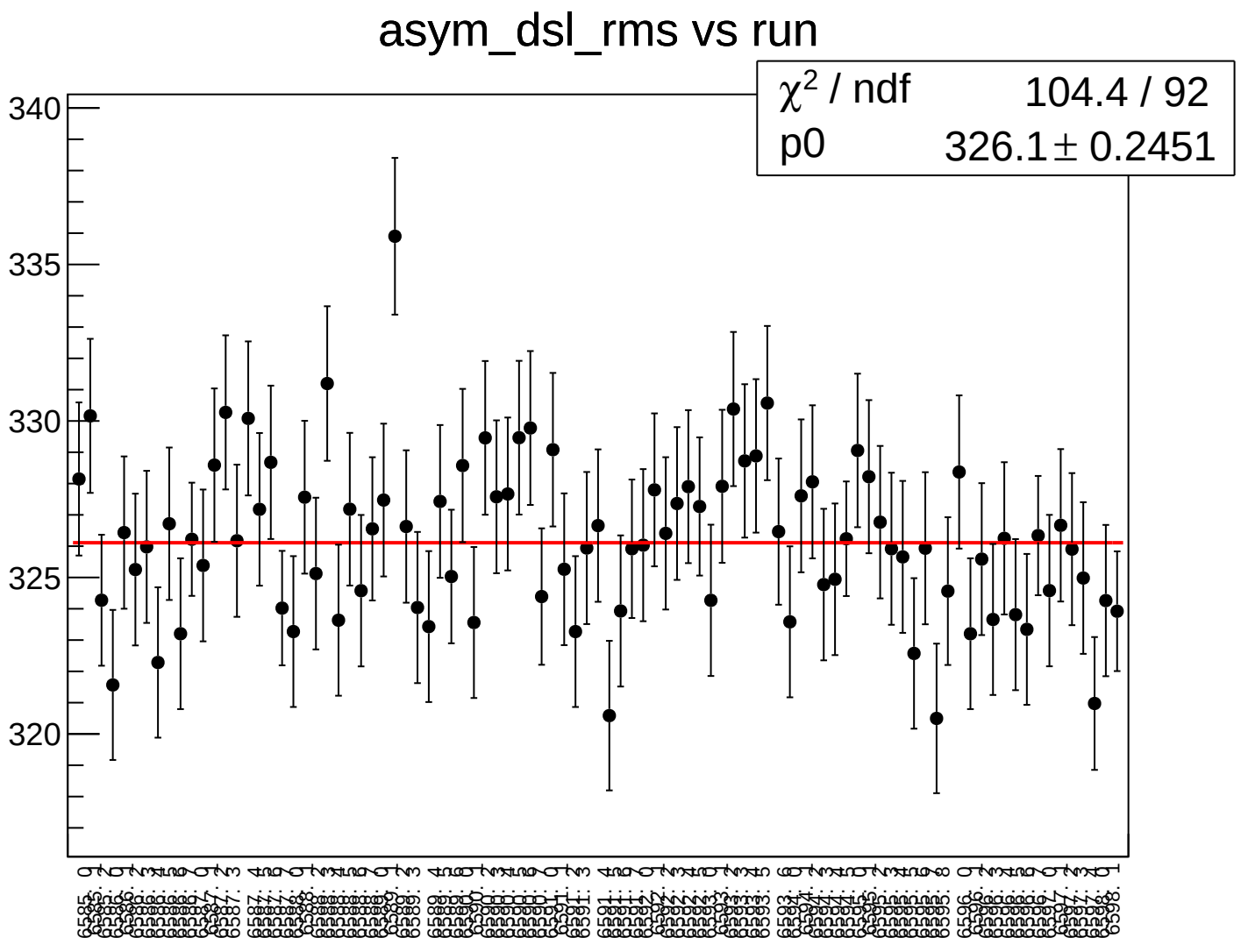

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.75 / 92
p0 0.07388 ± 0.07902
pull
Entries 93
Mean 138.3
Std Dev 0

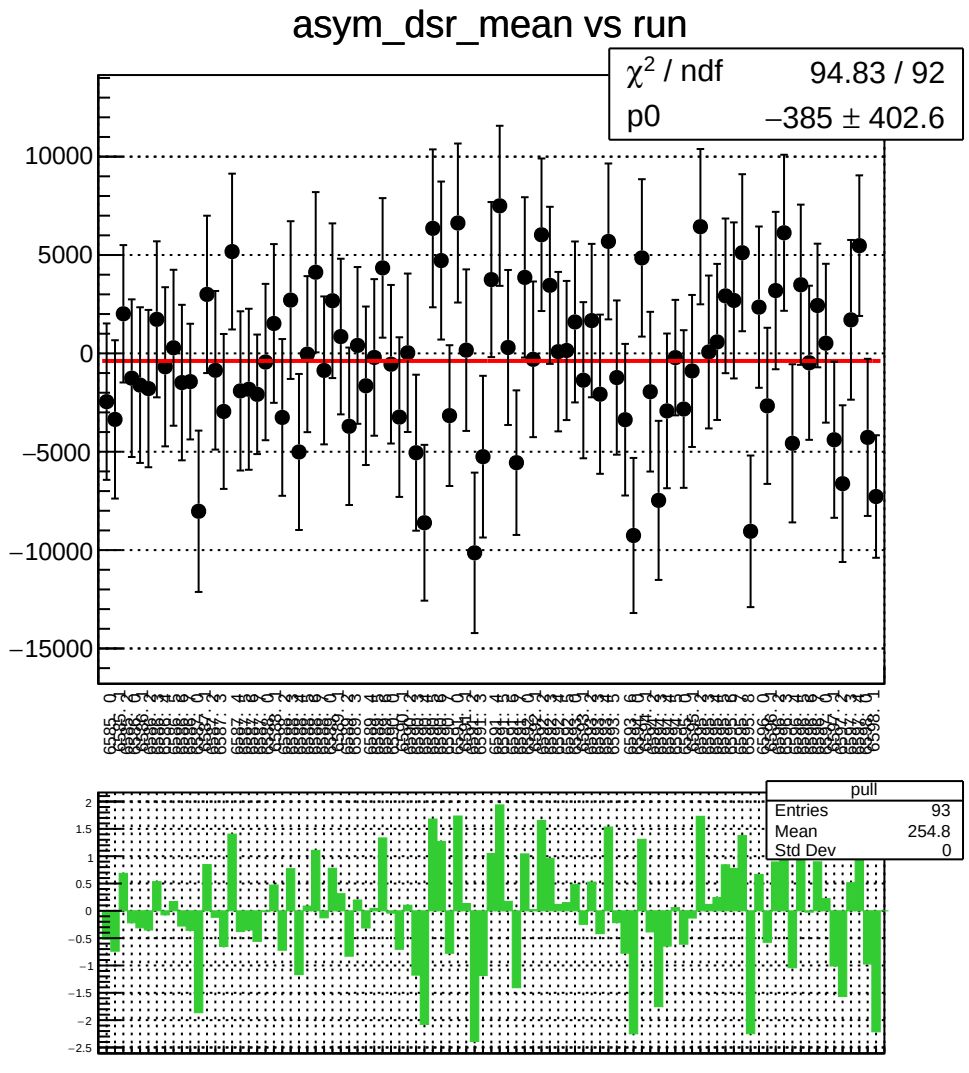

pull1D
Entries 93
Mean 0.007747
Std Dev 0.9143

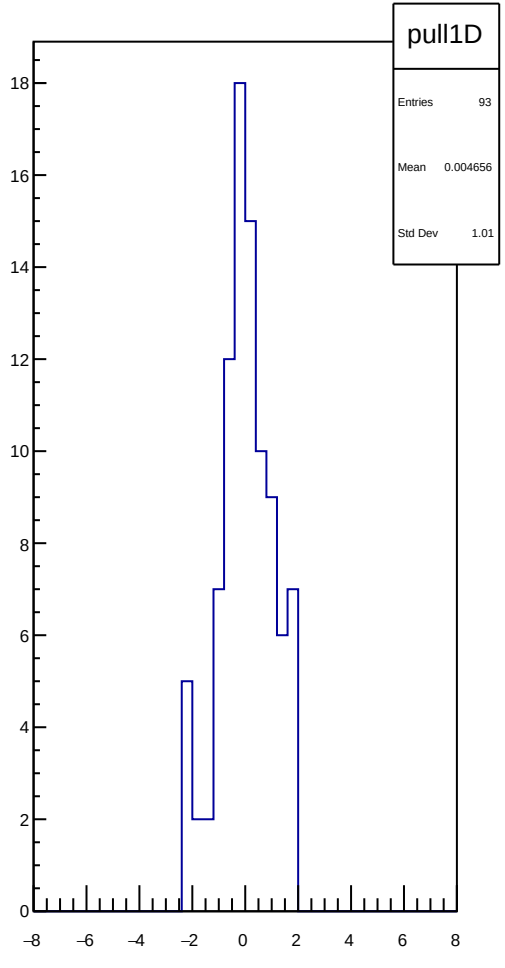

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.005e+04 / 92
p0 73.08 ± 0.05588
140
130
120
110
100
90
80
70
60
50

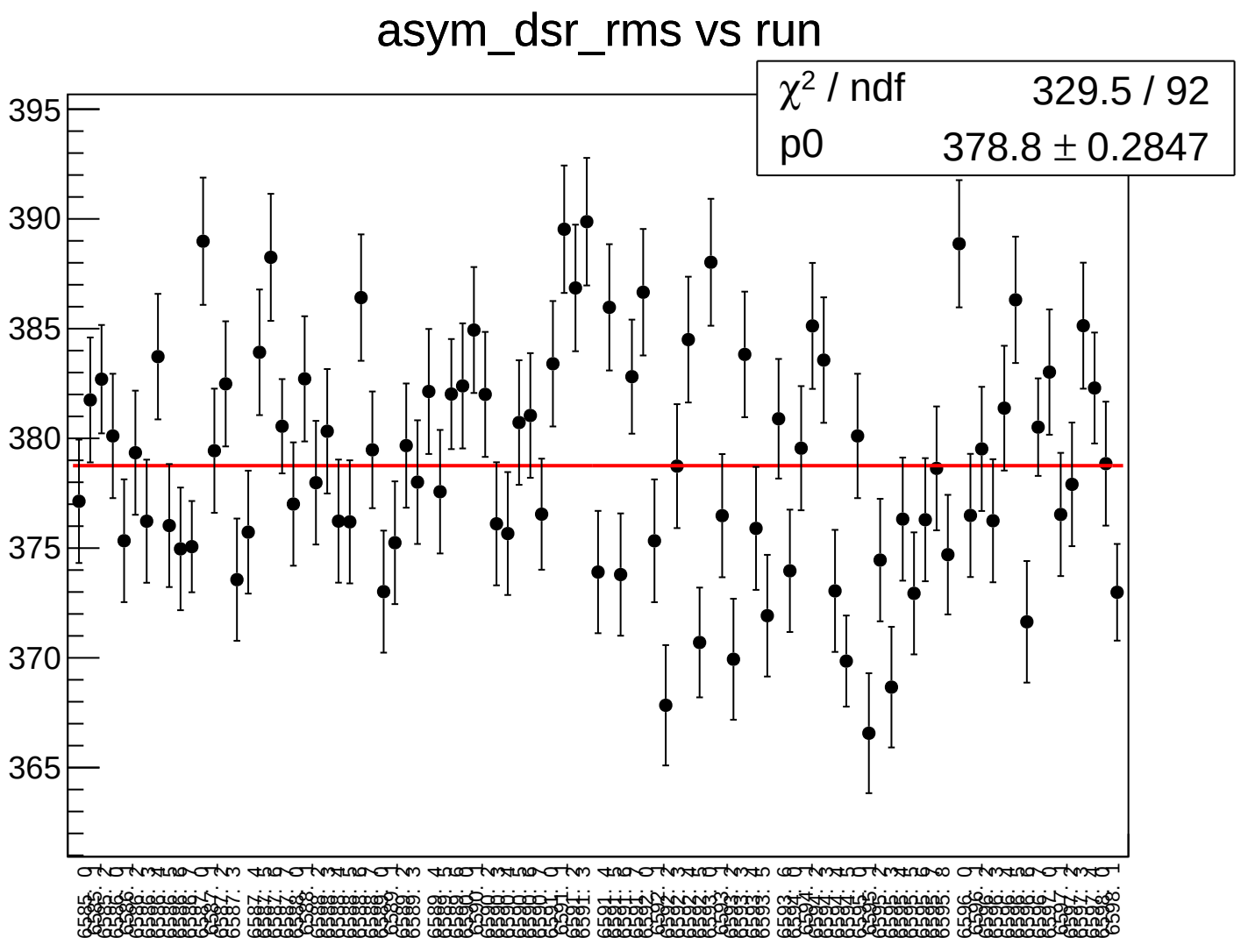

asym_dsl_mean vs run
χ² / ndf 89.55 / 92
p0 358.8 ± 346.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −408.9
Std Dev 0
2
1
0
−1
−2

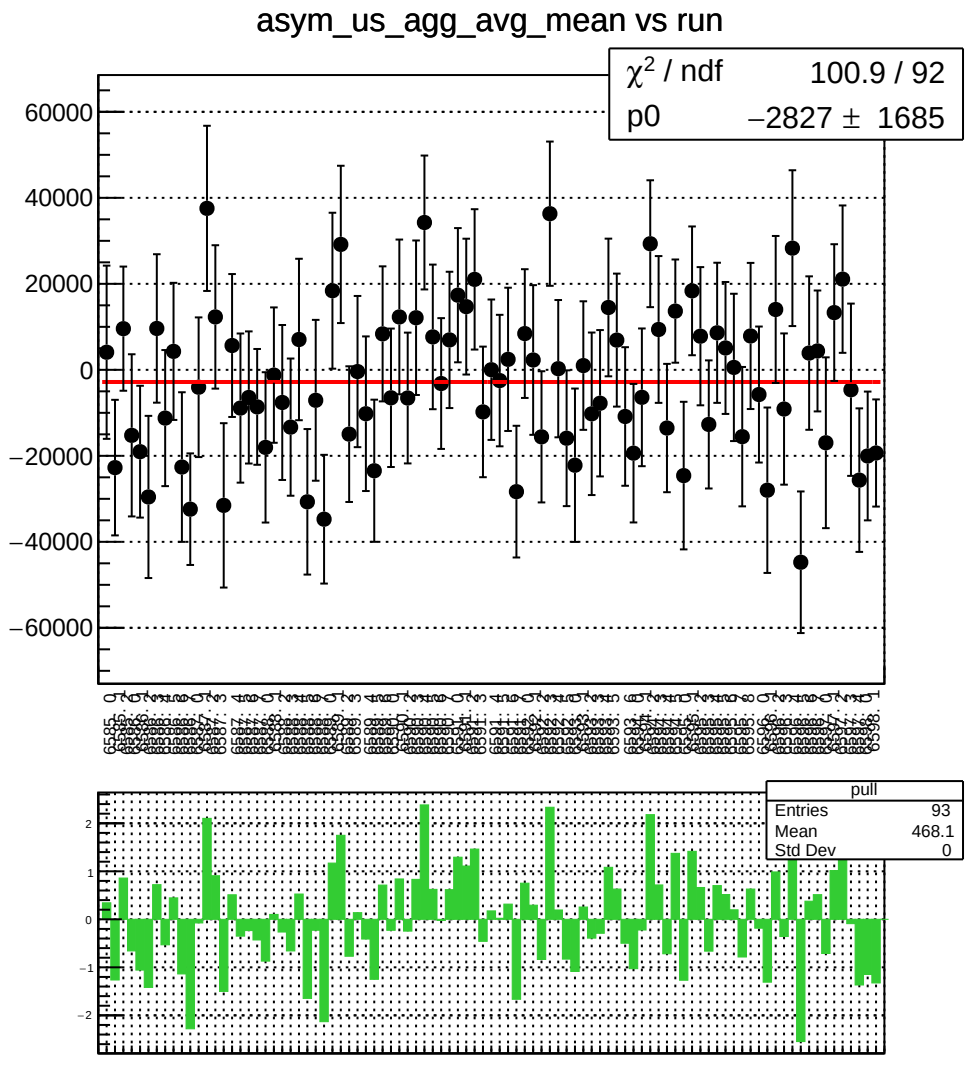

pull1D
Entries 93
Mean −0.006666
Std Dev 0.9812
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

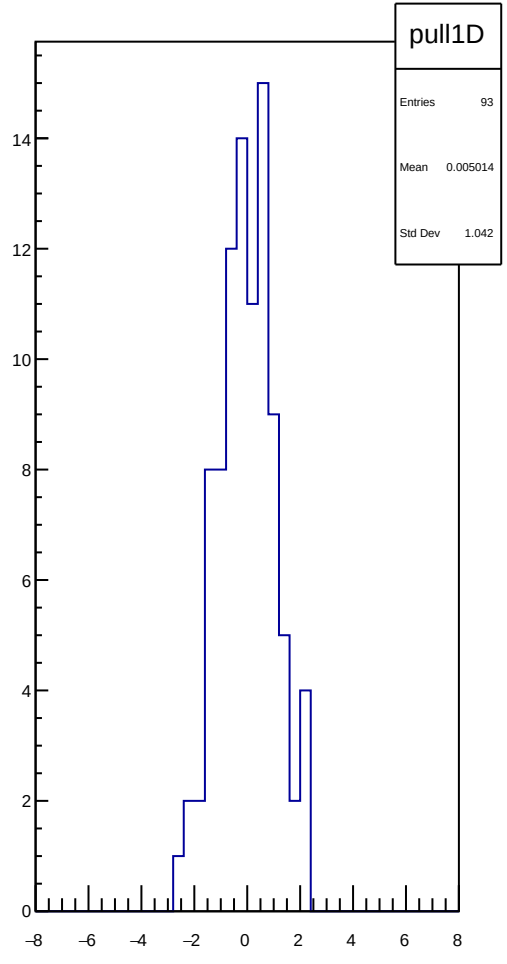

asym_dsl_rms vs run
χ^2 / ndf 104.4 / 92
p0 326.1 ± 0.2451
340
335
330
325
320

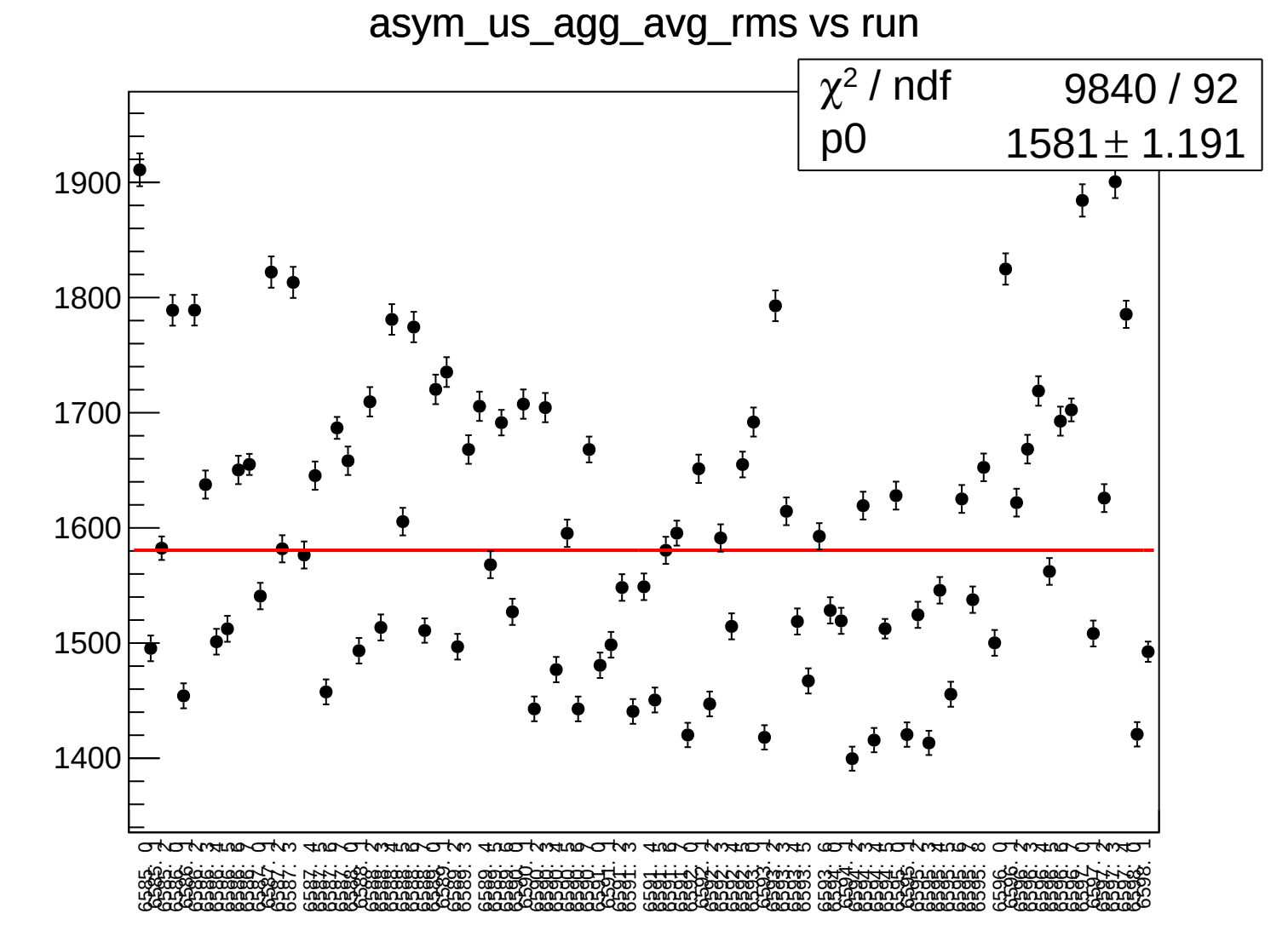

asym_dsr_mean vs run
χ² / ndf 94.83 / 92
p0 −385 ± 402.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 254.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

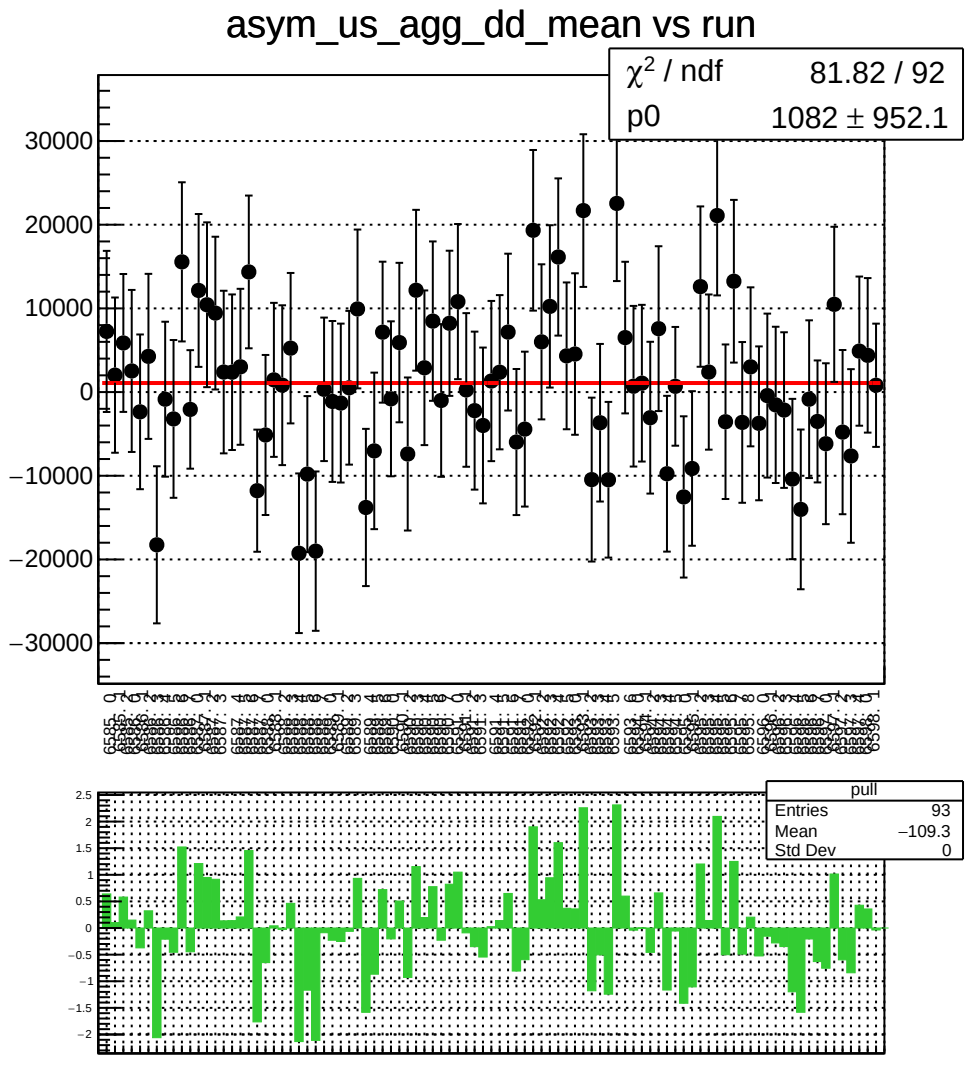

pull1D
Entries 93
Mean 0.004656
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

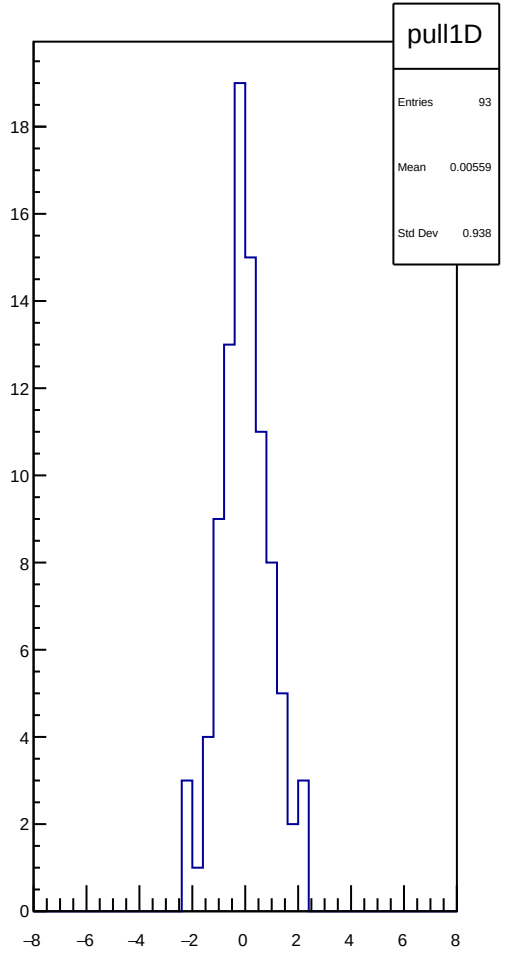

asym_dsr_rms vs run
χ² / ndf 329.5 / 92
p0 378.8 ± 0.2847
395
390
385
380
375
370
365

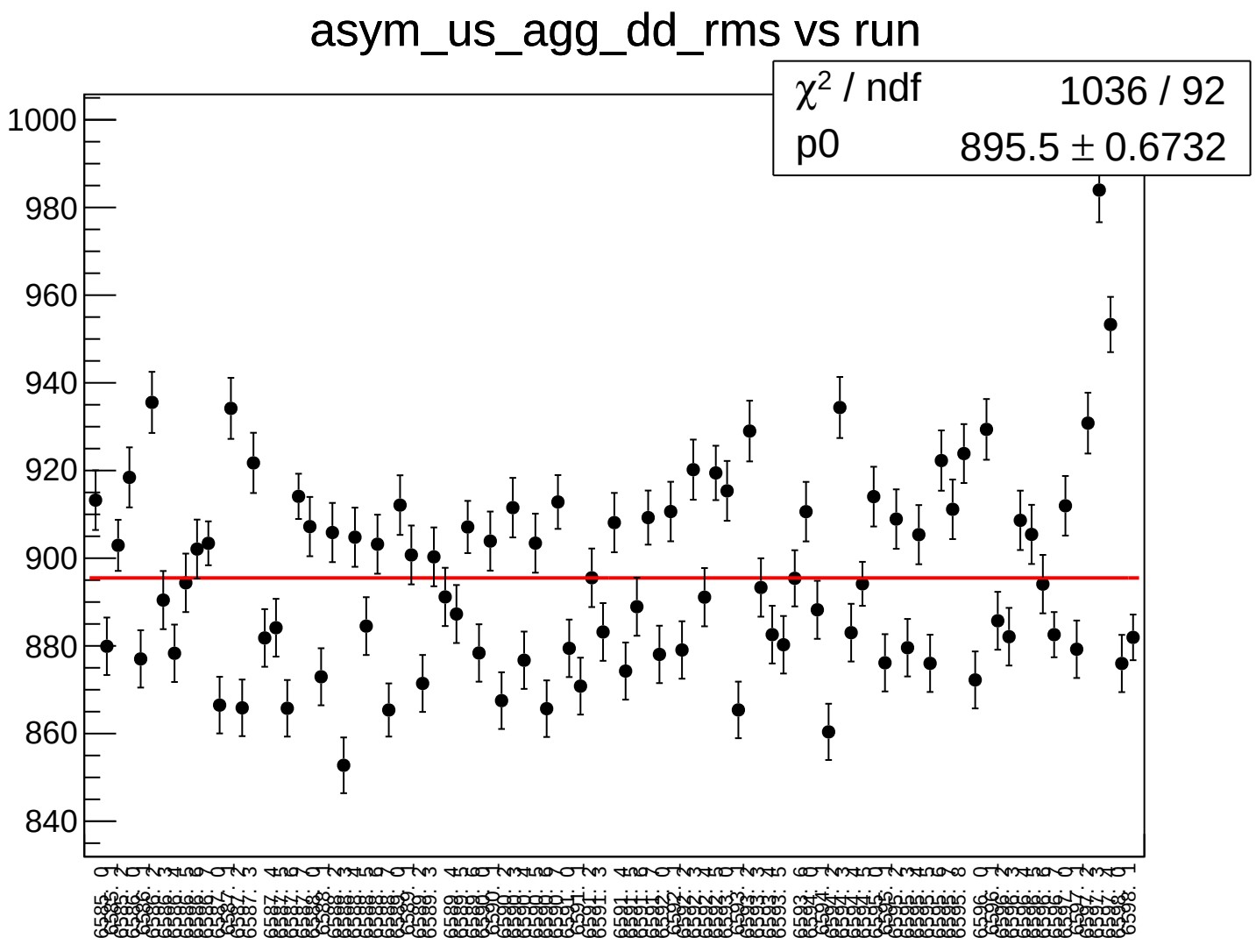

asym_us_agg_avg_mean vs run
χ² / ndf 100.9 / 92
p0 −2827 ± 1685
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 468.1
Std Dev 0
2
1
0
−1
−2

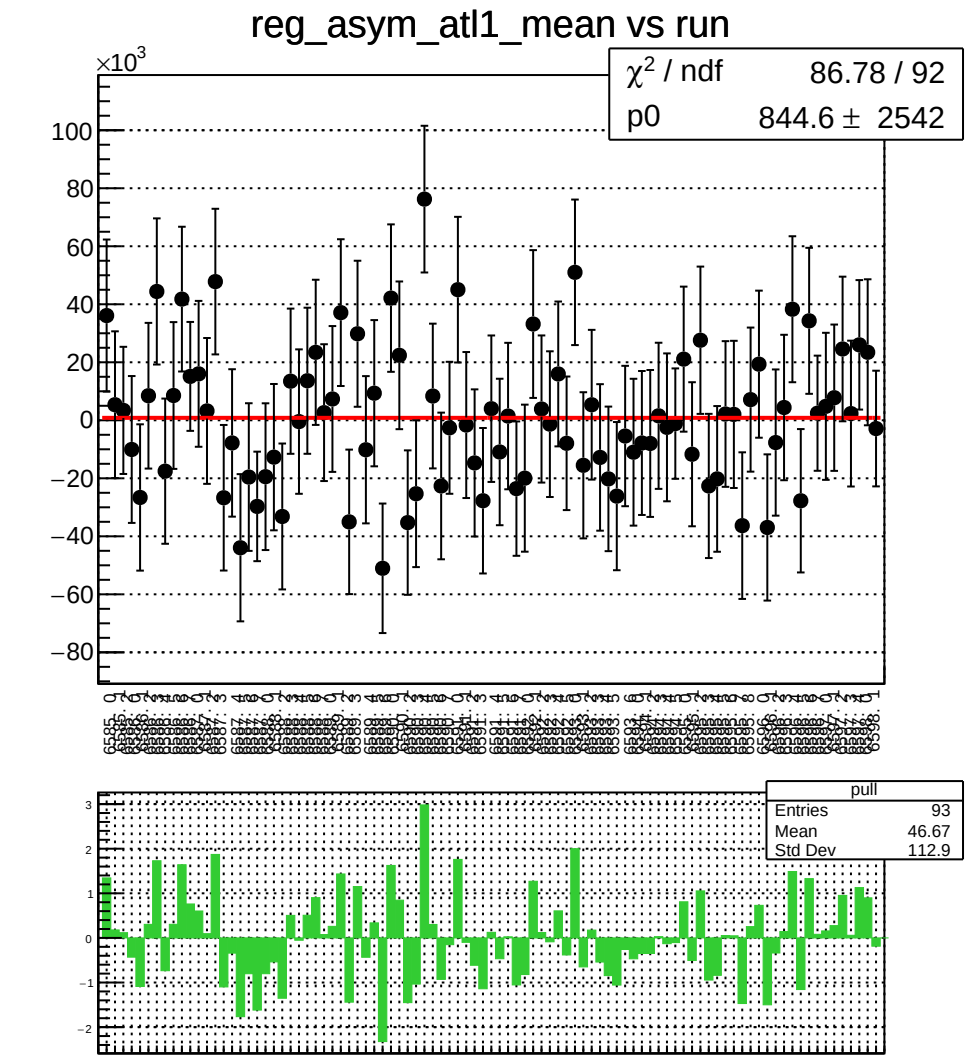

pull1D
Entries 93
Mean 0.005014
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

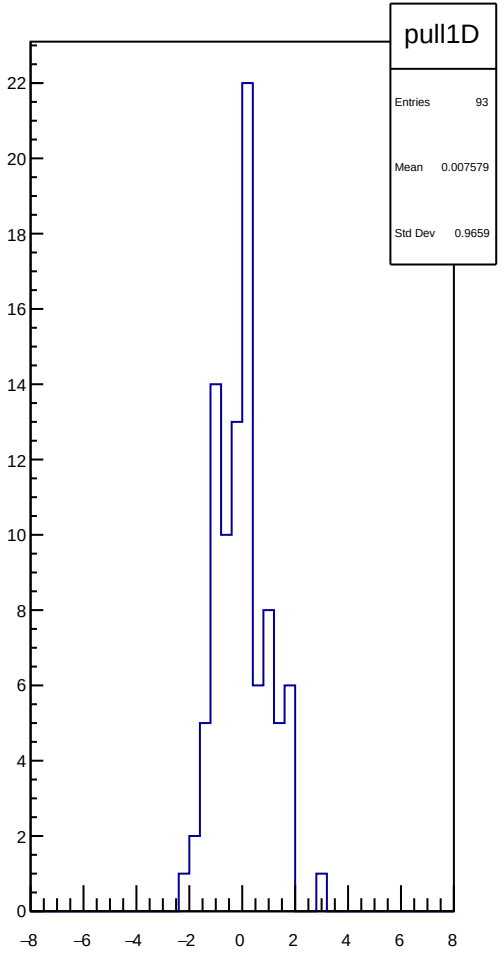

asym_us_agg_avg_rms vs run
χ² / ndf 9840 / 92
p0 1581 ± 1.191
1900
1800
1700
1600
1500
1400

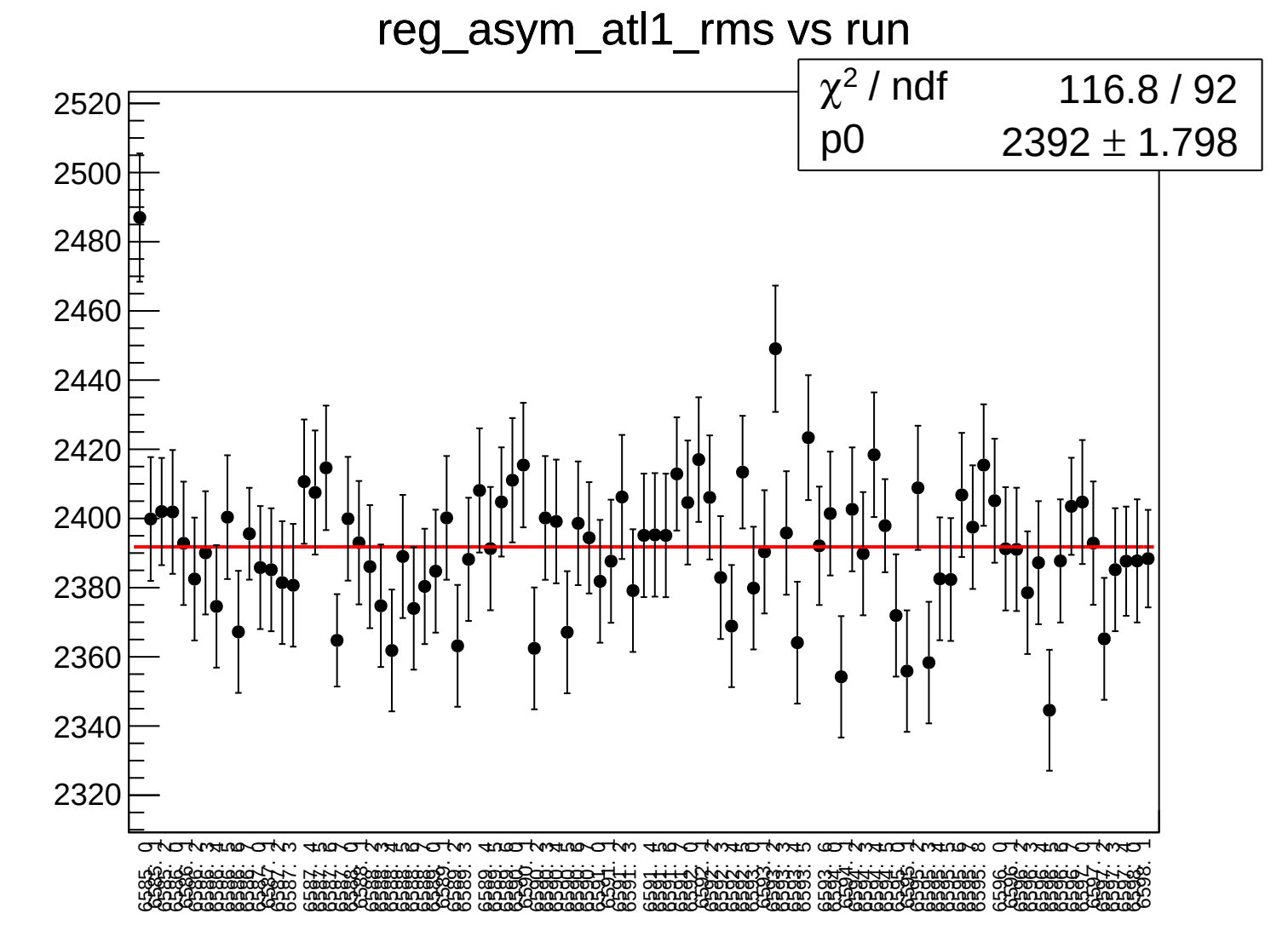

asym_us_agg_dd_mean vs run
χ² / ndf 81.82 / 92
p0 1082 ± 952.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −109.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

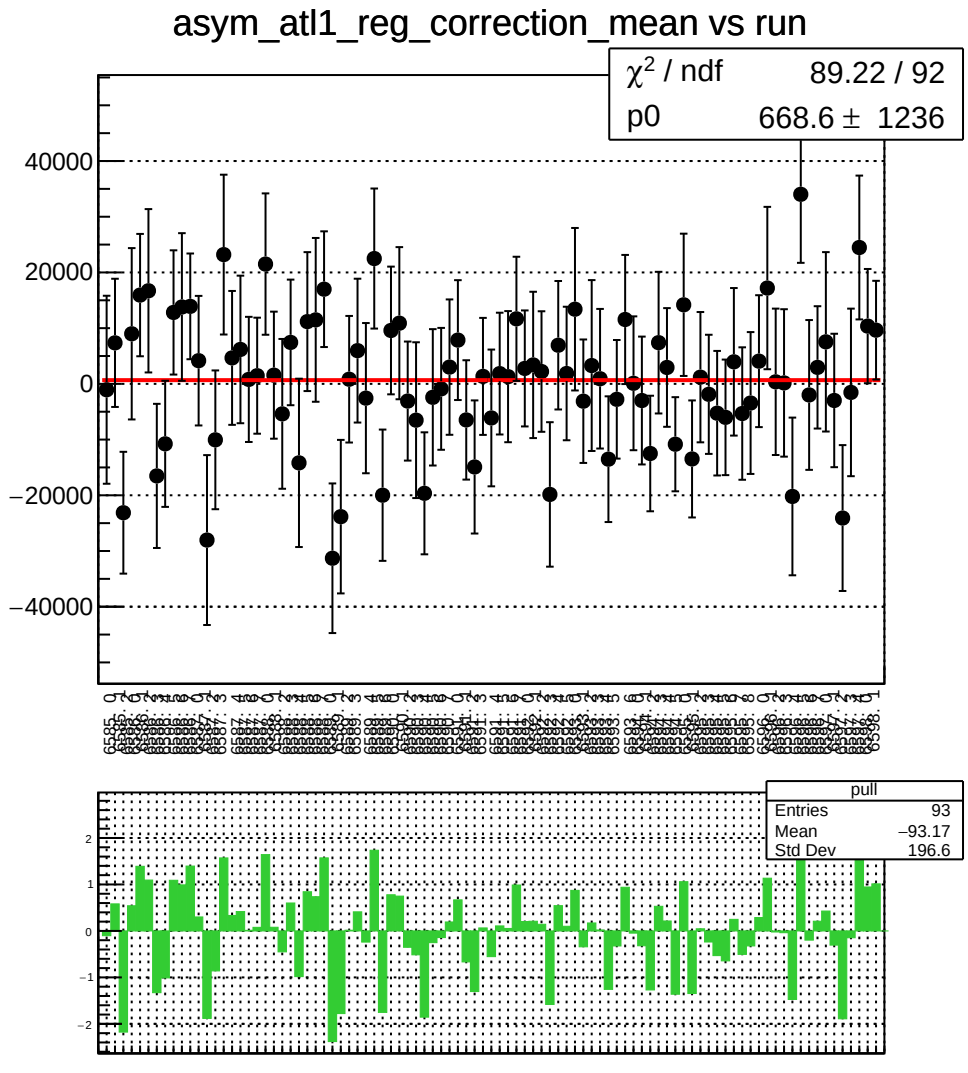

pull1D
Entries 93
Mean 0.00559
Std Dev 0.938
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

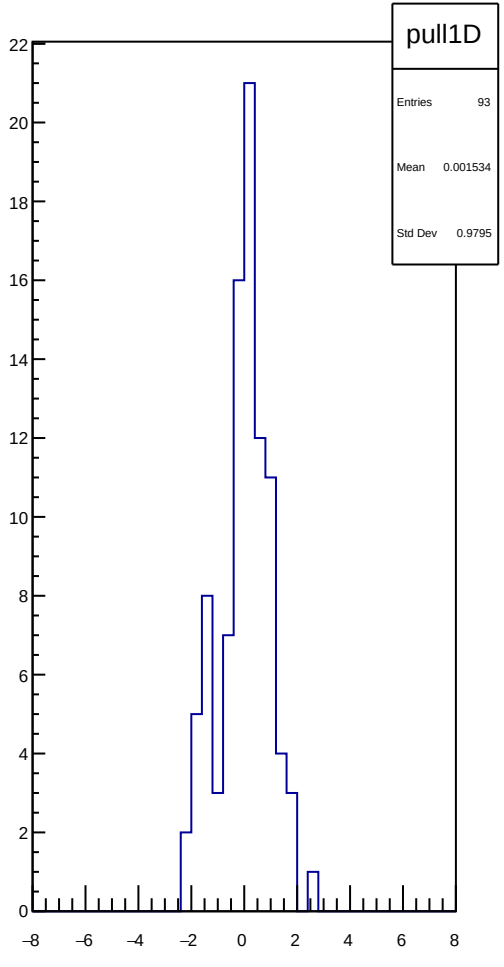

asym_us_agg_dd_rms vs run
χ² / ndf 1036 / 92
p0 895.5 ± 0.6732
1000
980
960
940
920
900
880
860
840

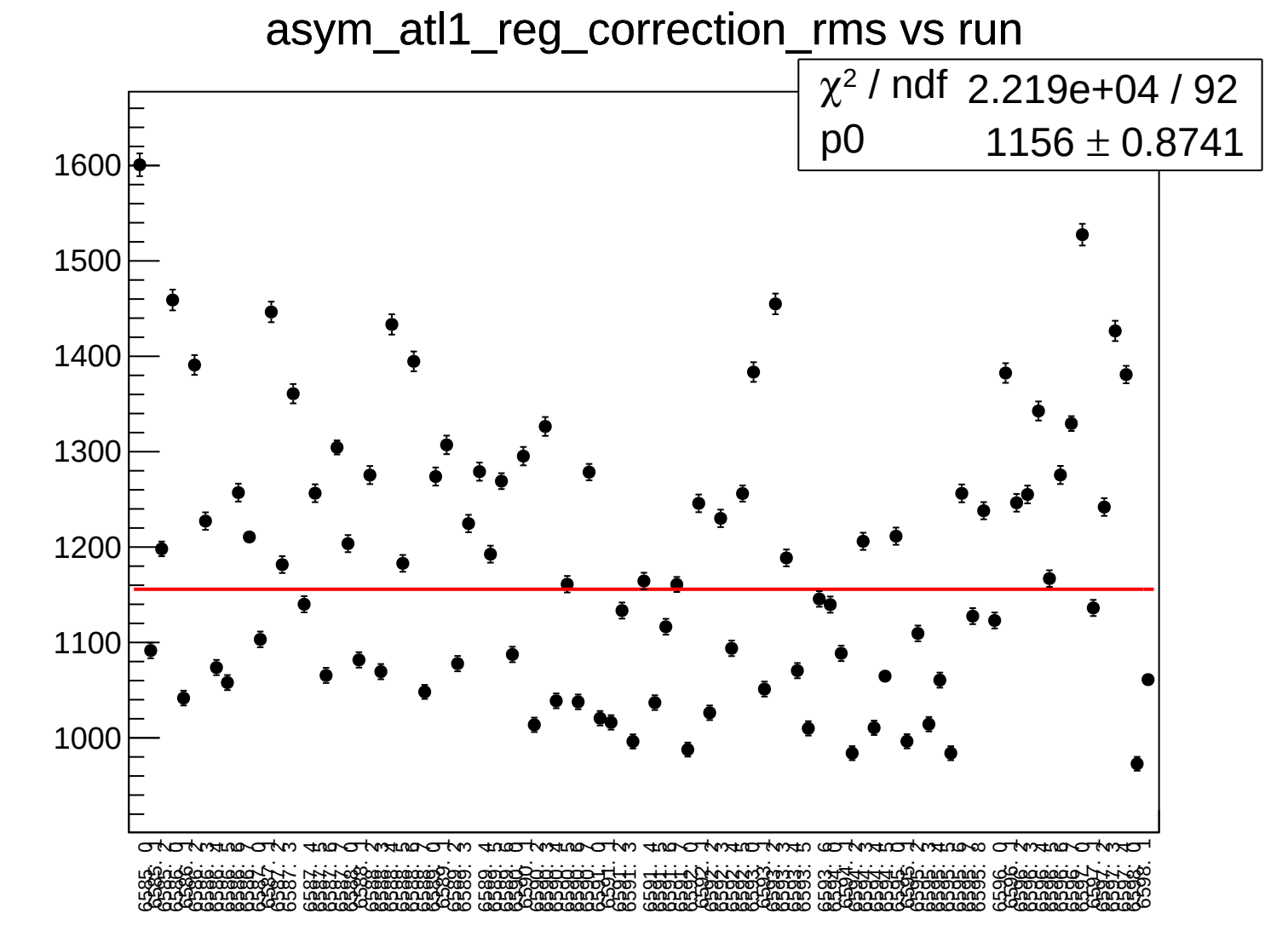

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 86.78 / 92
p0 844.6 ± 2542
pull
Entries 93
Mean 46.67
Std Dev 112.9

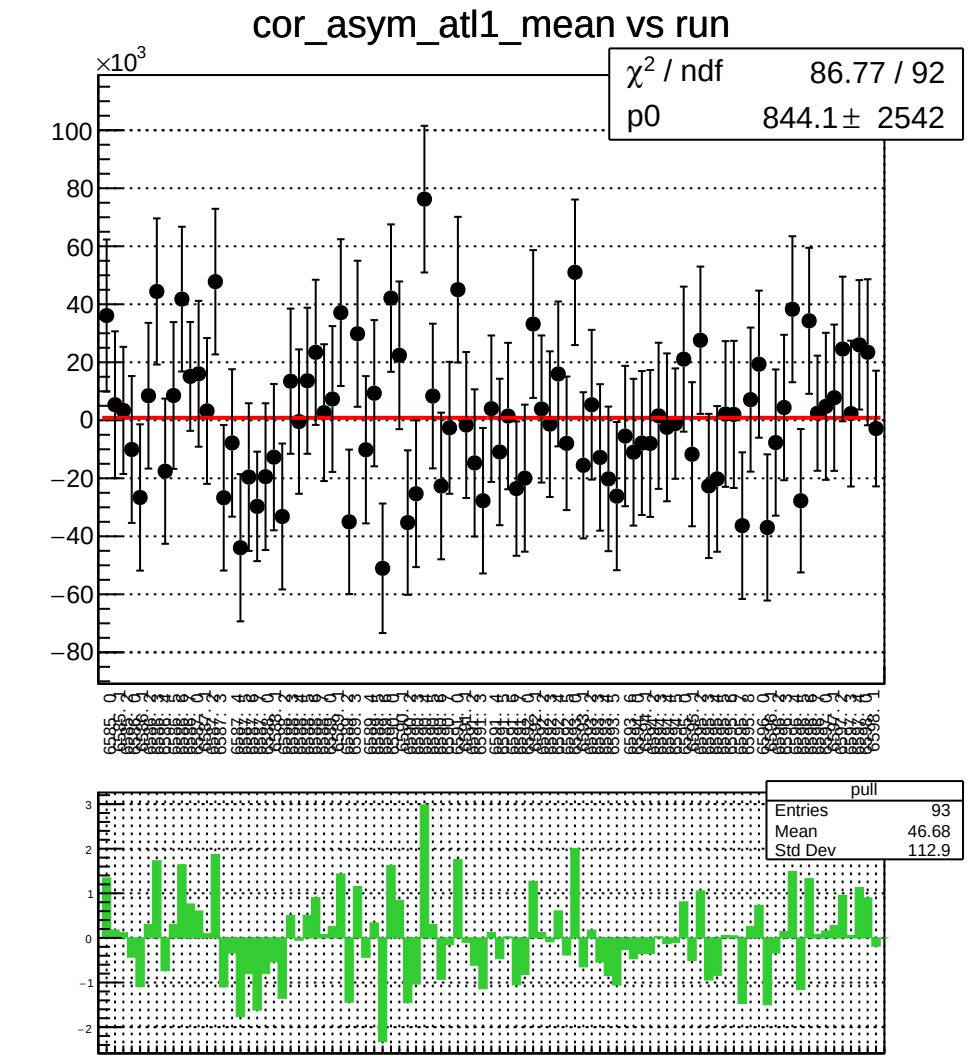

pull1D
Entries 93
Mean 0.007579
Std Dev 0.9659

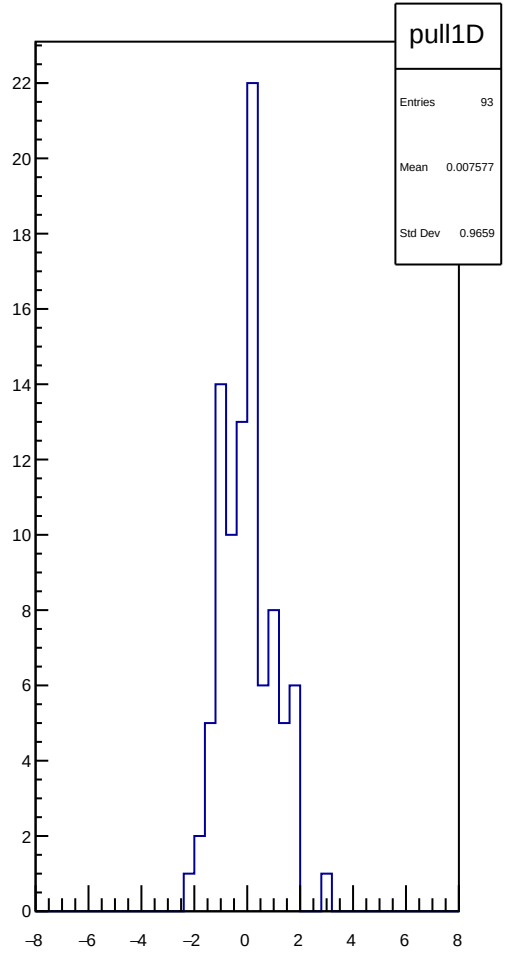

reg_asym_atl1_rms vs run
χ^2 / ndf 116.8 / 92
p0 2392 ± 1.798
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

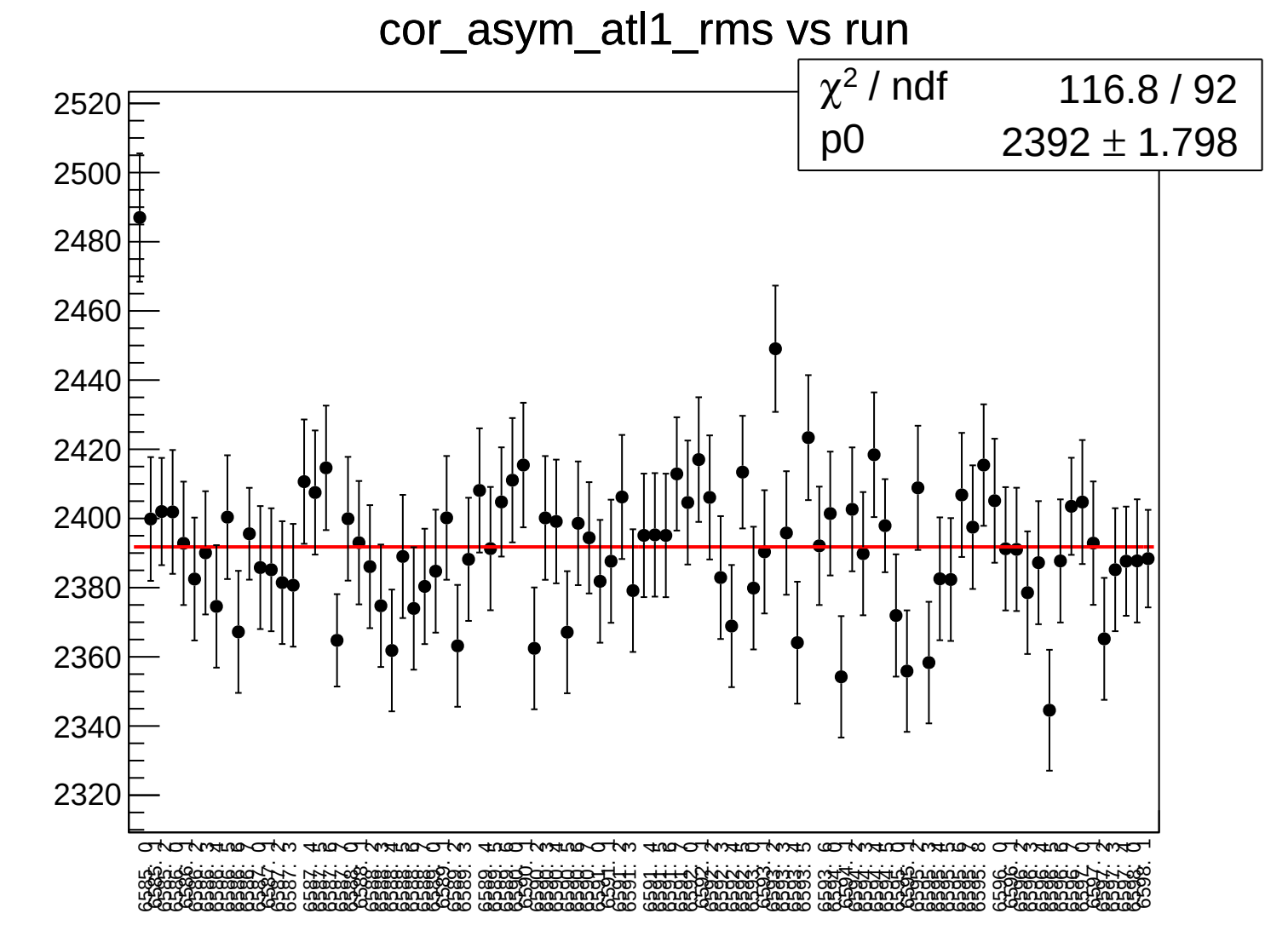

asym_atl1_reg_correction_mean vs run
χ² / ndf 89.22 / 92
p0 668.6 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −93.17
Std Dev 196.6
2
1
0
−1
−2

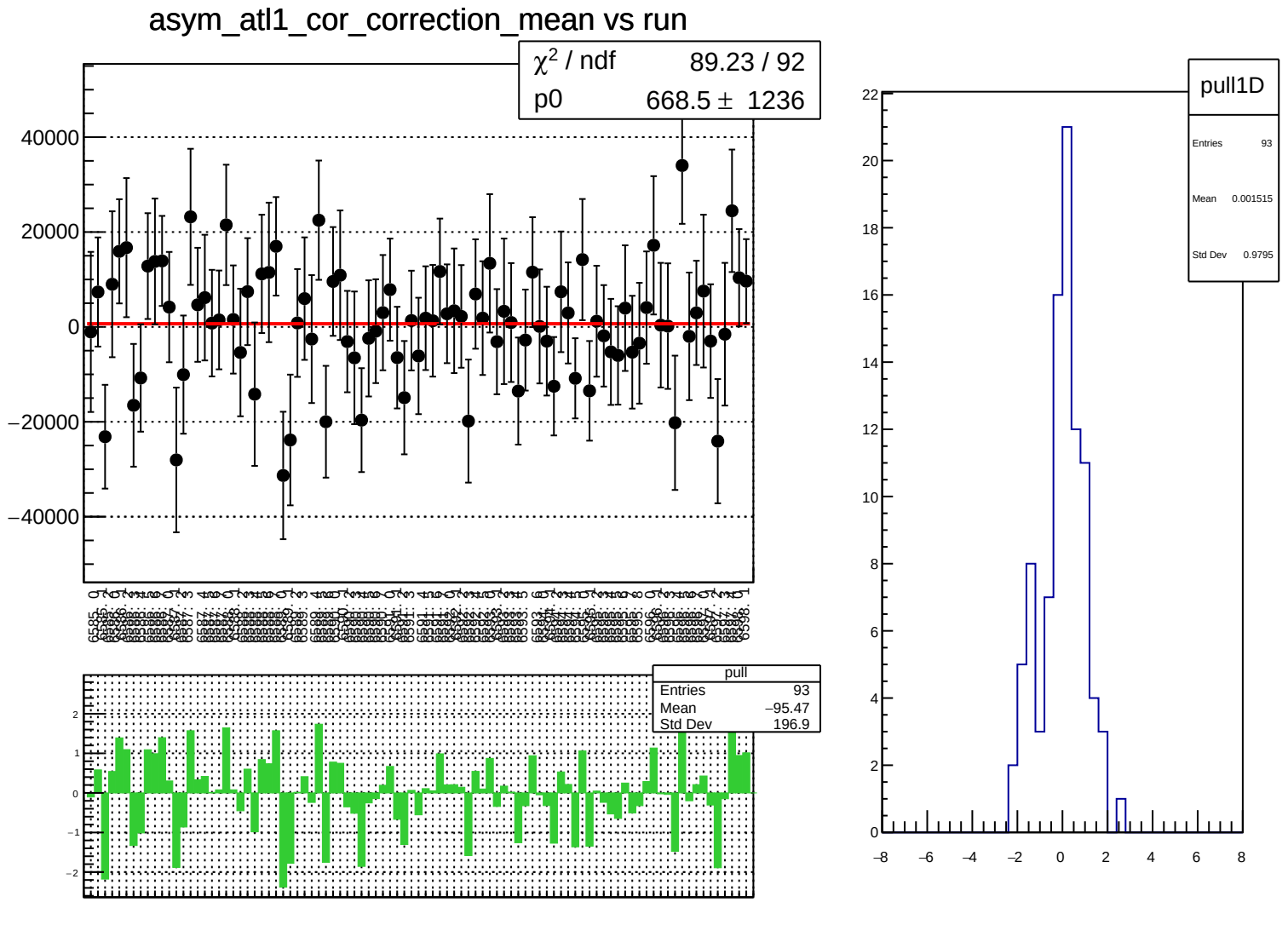

pull1D
Entries 93
Mean 0.001534
Std Dev 0.9795
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

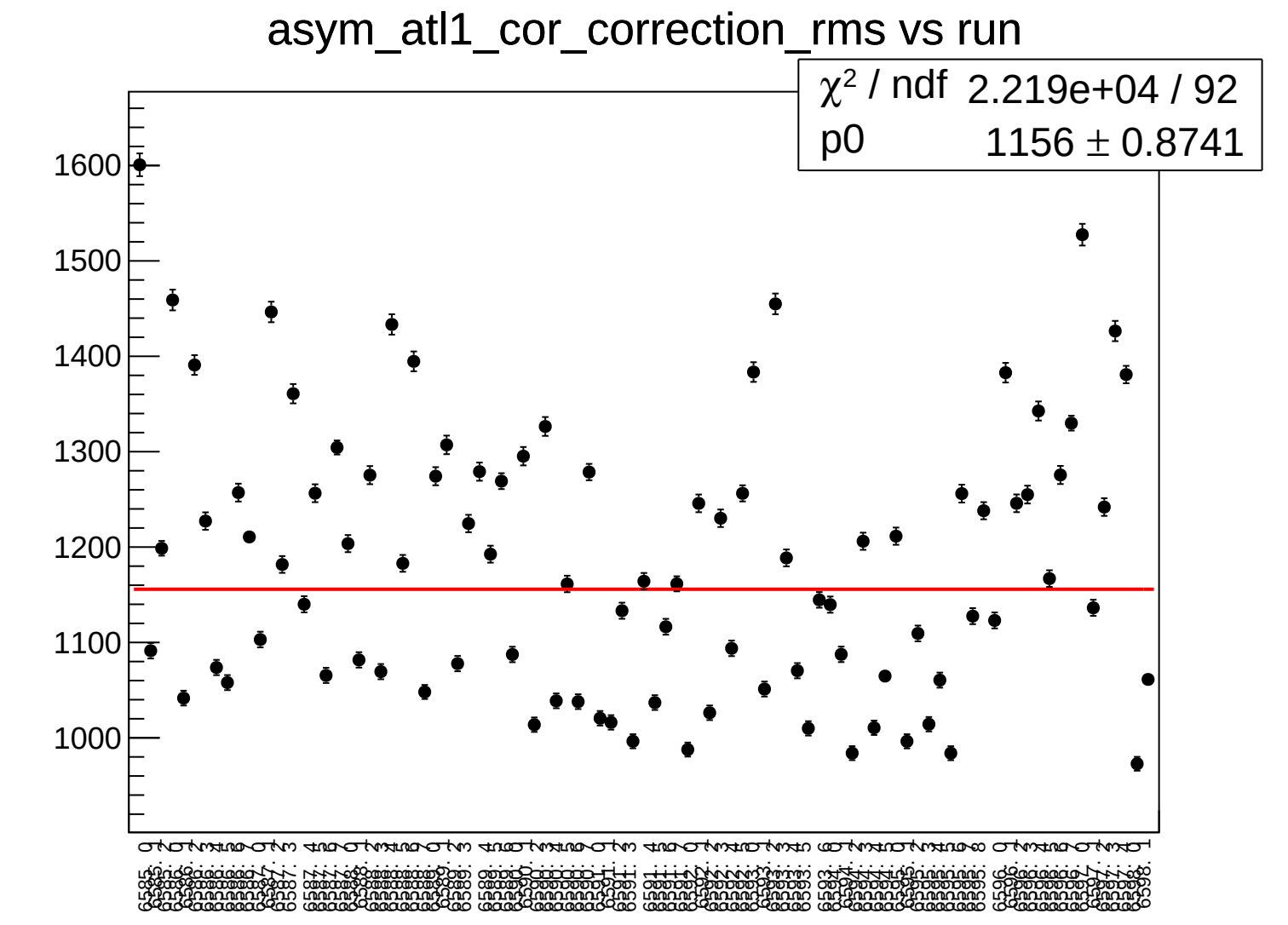

asym_atl1_reg_correction_rms vs run
χ² / ndf 2.219e+04 / 92
p0 1156 ± 0.8741
1600
1500
1400
1300
1200
1100
1000

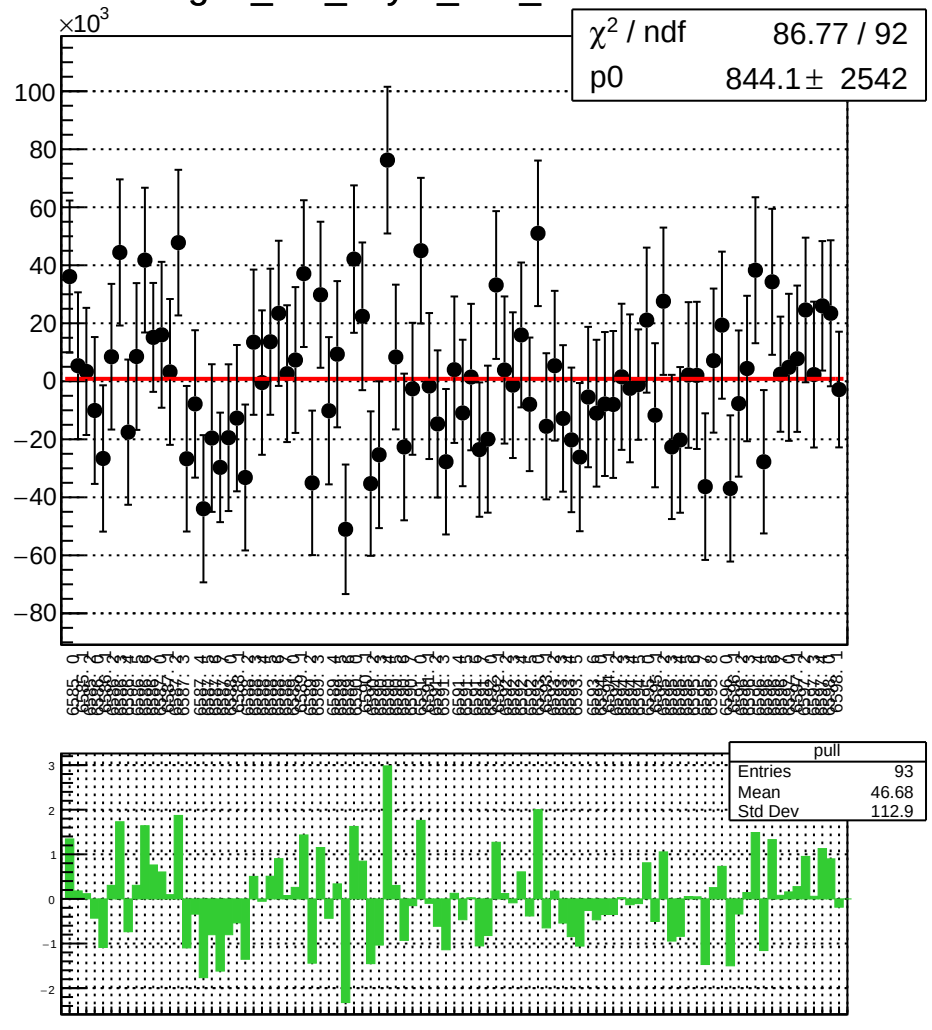

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 86.77 / 92
p0 844.1 ± 2542
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 93
Mean 46.68
Std Dev 112.9
3
2
1
0
−1
−2

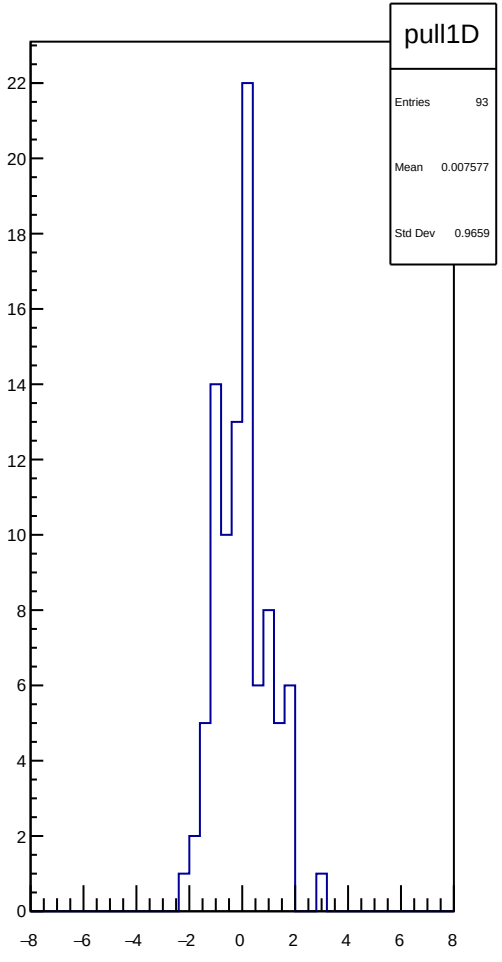

pull1D
Entries 93
Mean 0.007577
Std Dev 0.9659
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

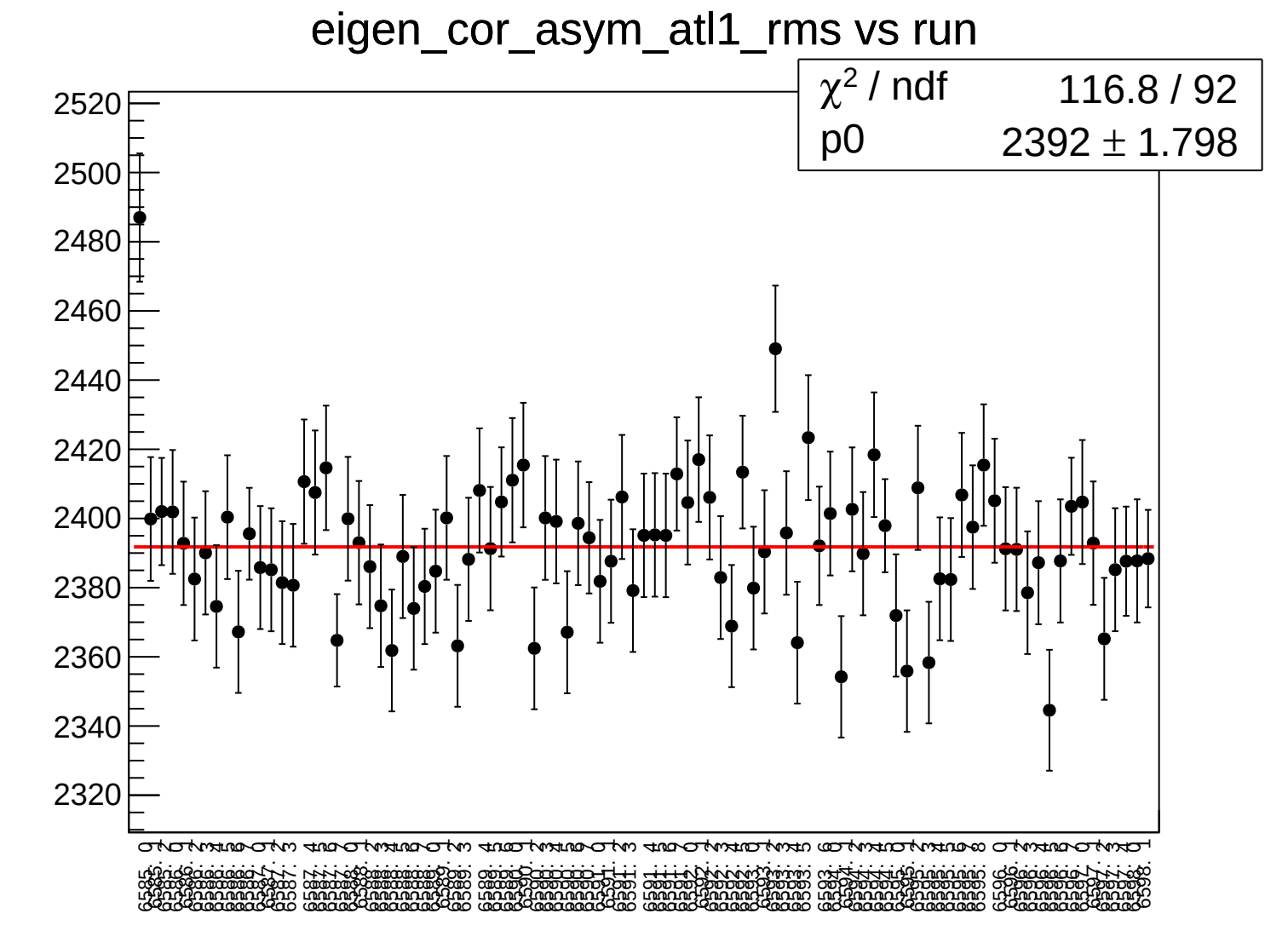

cor_asym_atl1_rms vs run
χ^2 / ndf 116.8 / 92
p0 2392 ± 1.798
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

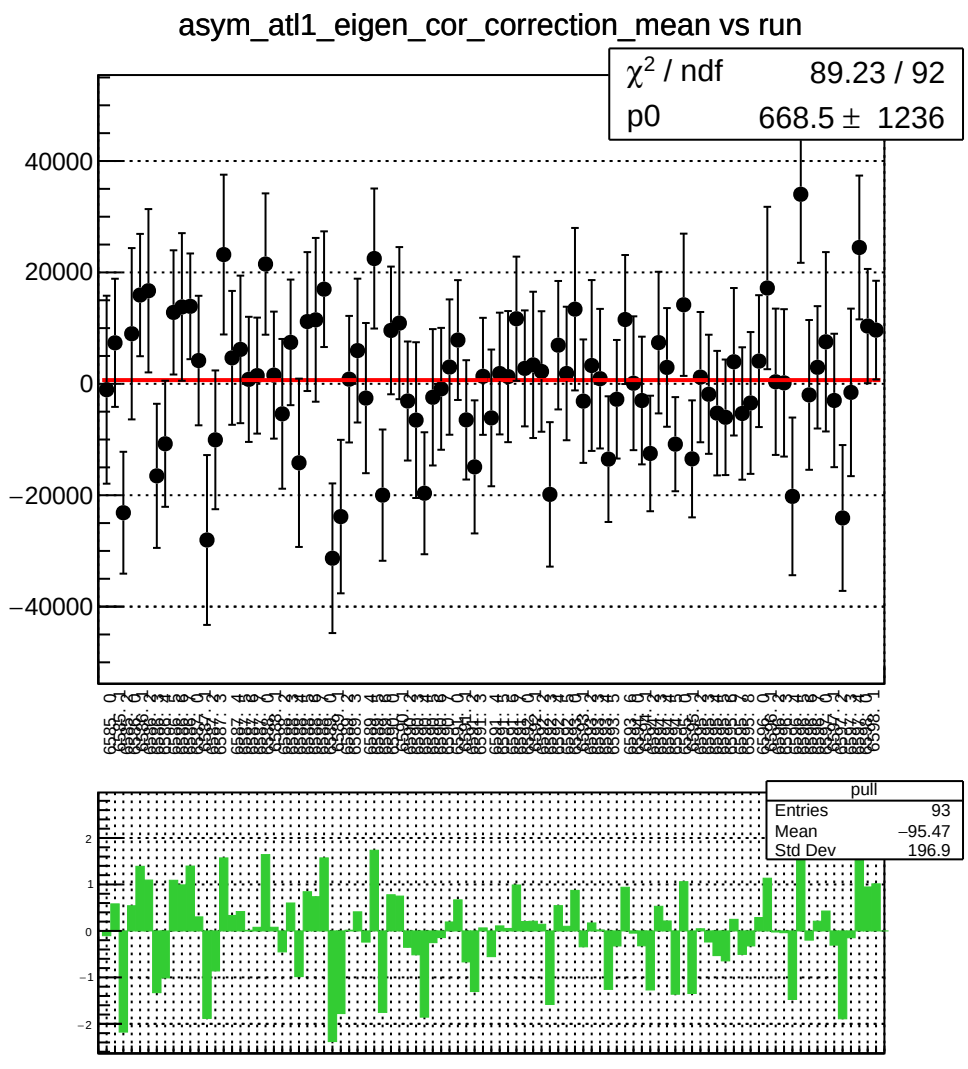

asym_atl1_cor_correction_mean vs run
χ² / ndf 89.23 / 92
p0 668.5 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −95.47
Std Dev 196.9
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001515
Std Dev 0.9795
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

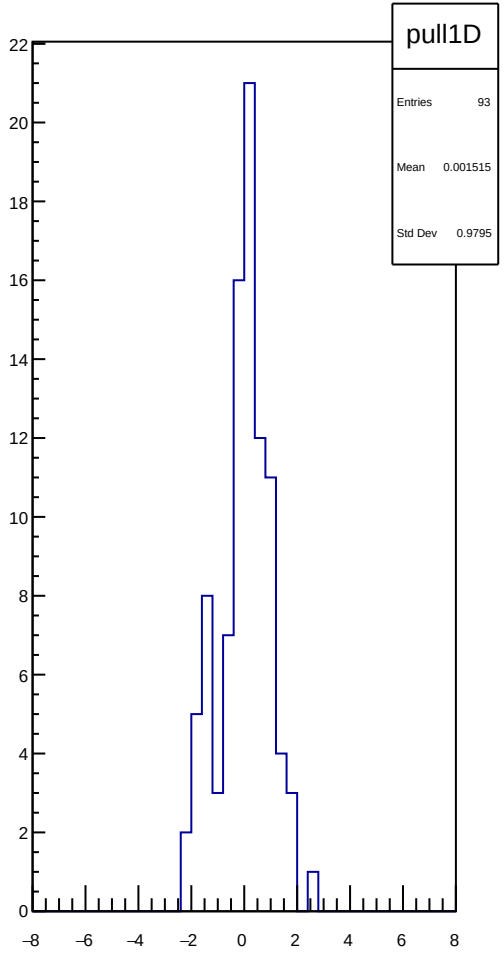

asym_atl1_cor_correction_rms vs run
χ² / ndf 2.219e+04 / 92
p0 1156 ± 0.8741
1600
1500
1400
1300
1200
1100
1000

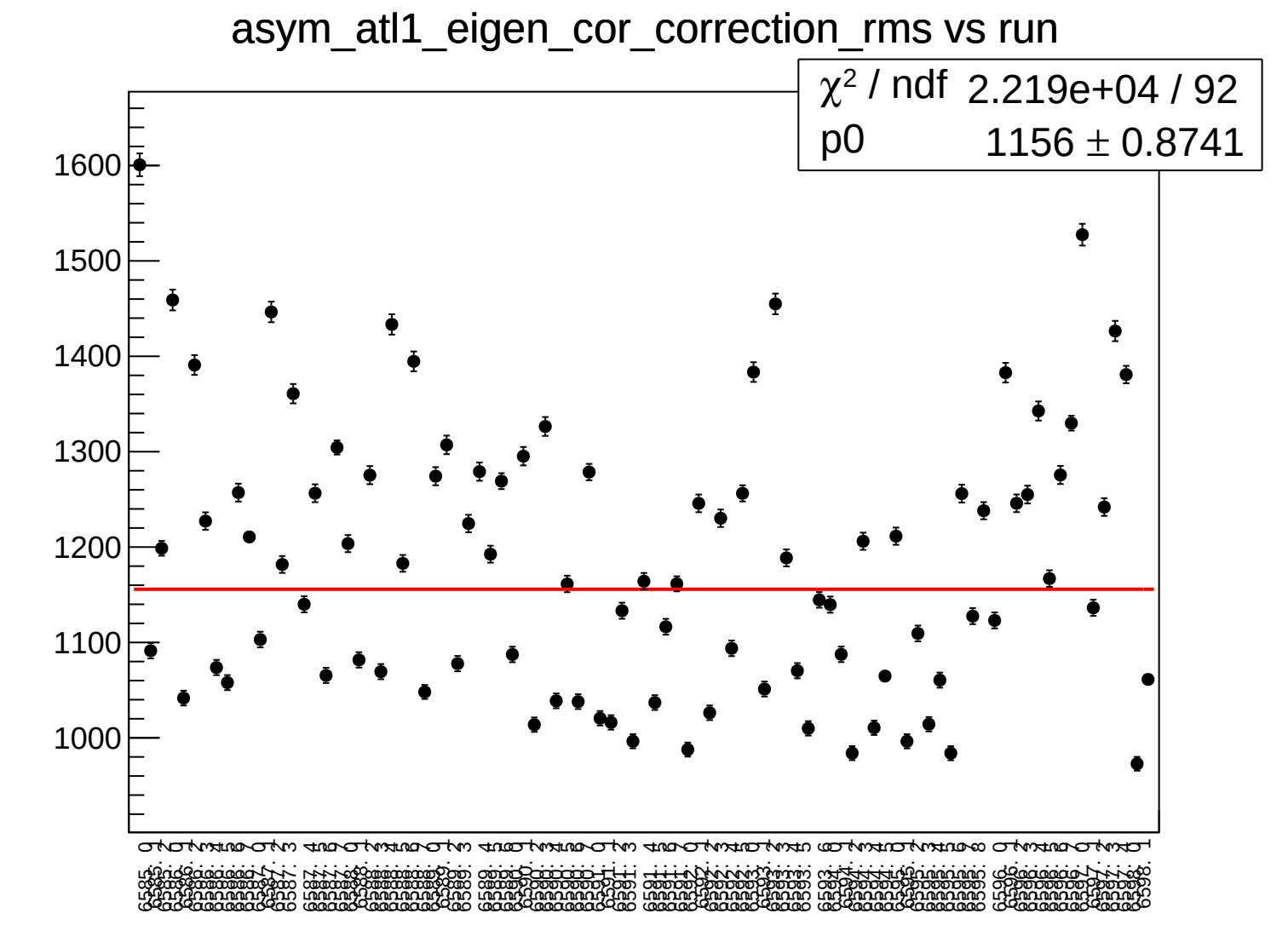

eigen_cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 86.77 / 92
p0 844.1 ± 2542
pull
Entries 93
Mean 46.68
Std Dev 112.9

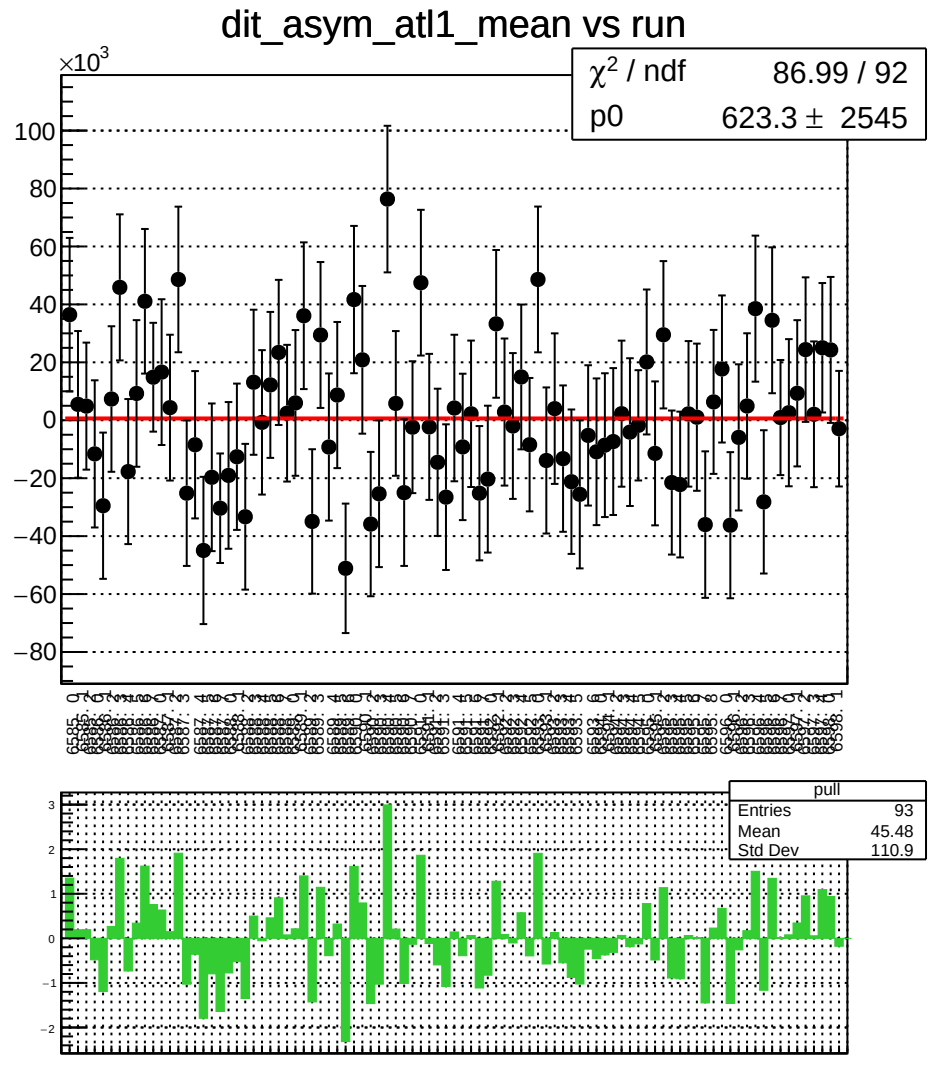

pull1D
Entries 93
Mean 0.007577
Std Dev 0.9659

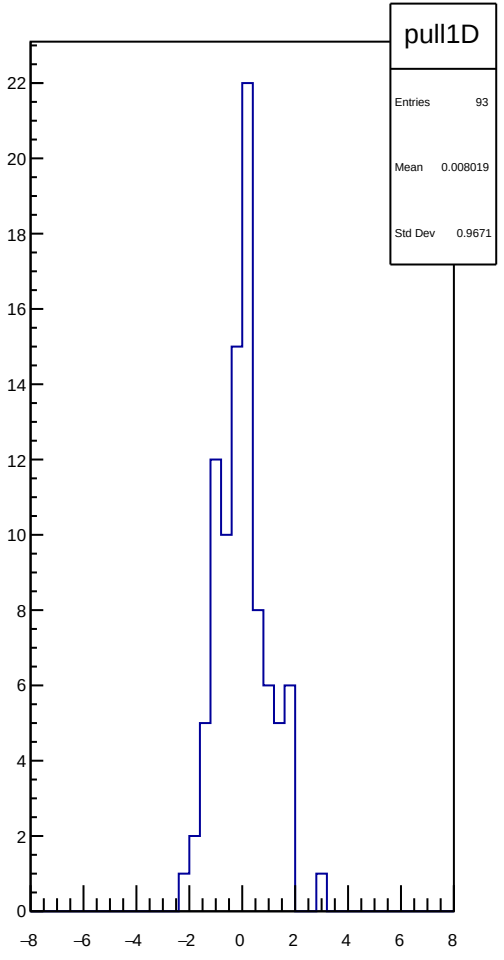

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 116.8 / 92
p0 2392 ± 1.798
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

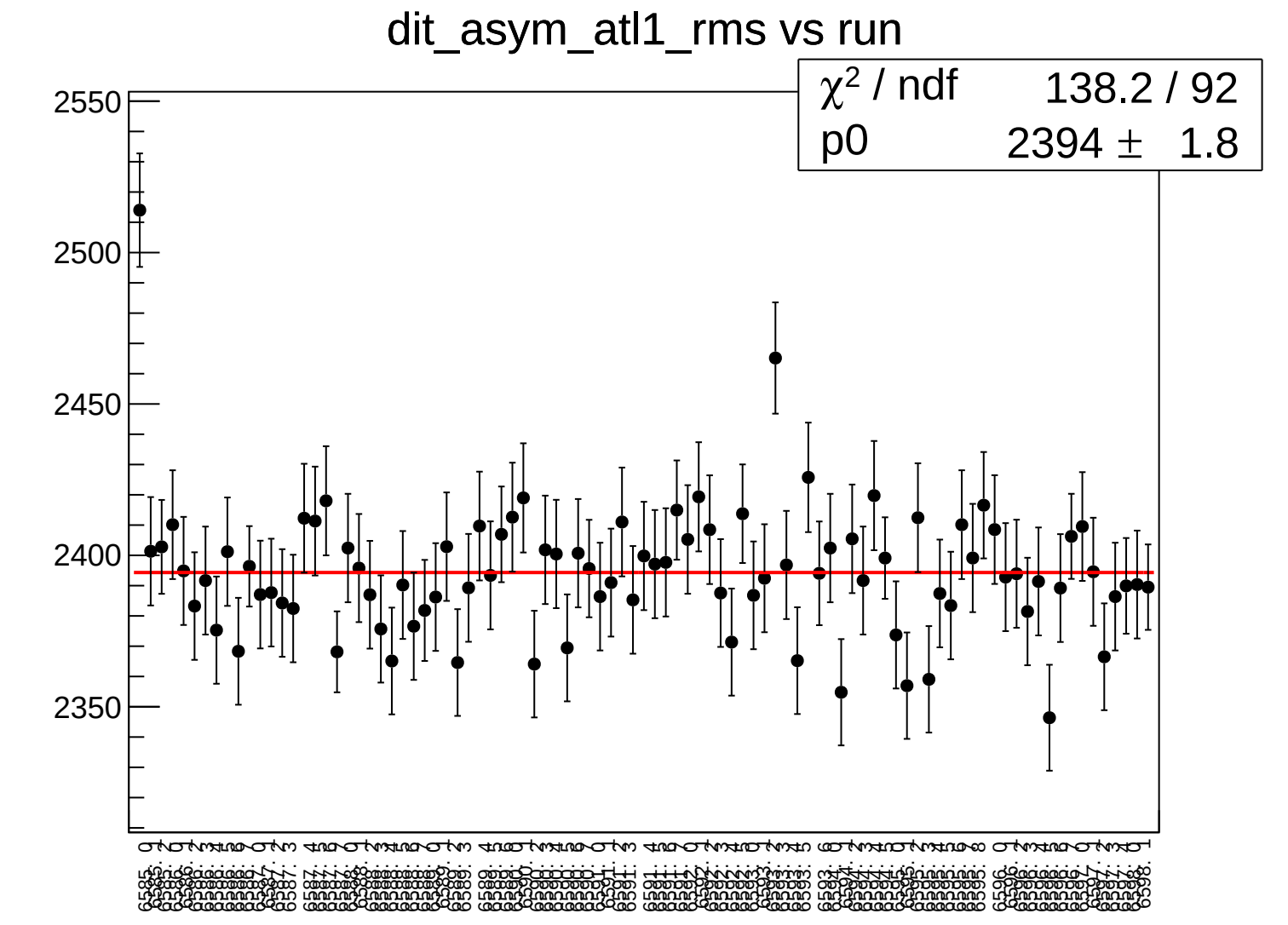

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 89.23 / 92
p0 668.5 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −95.47
Std Dev 196.9
2
1
0
−1
−2

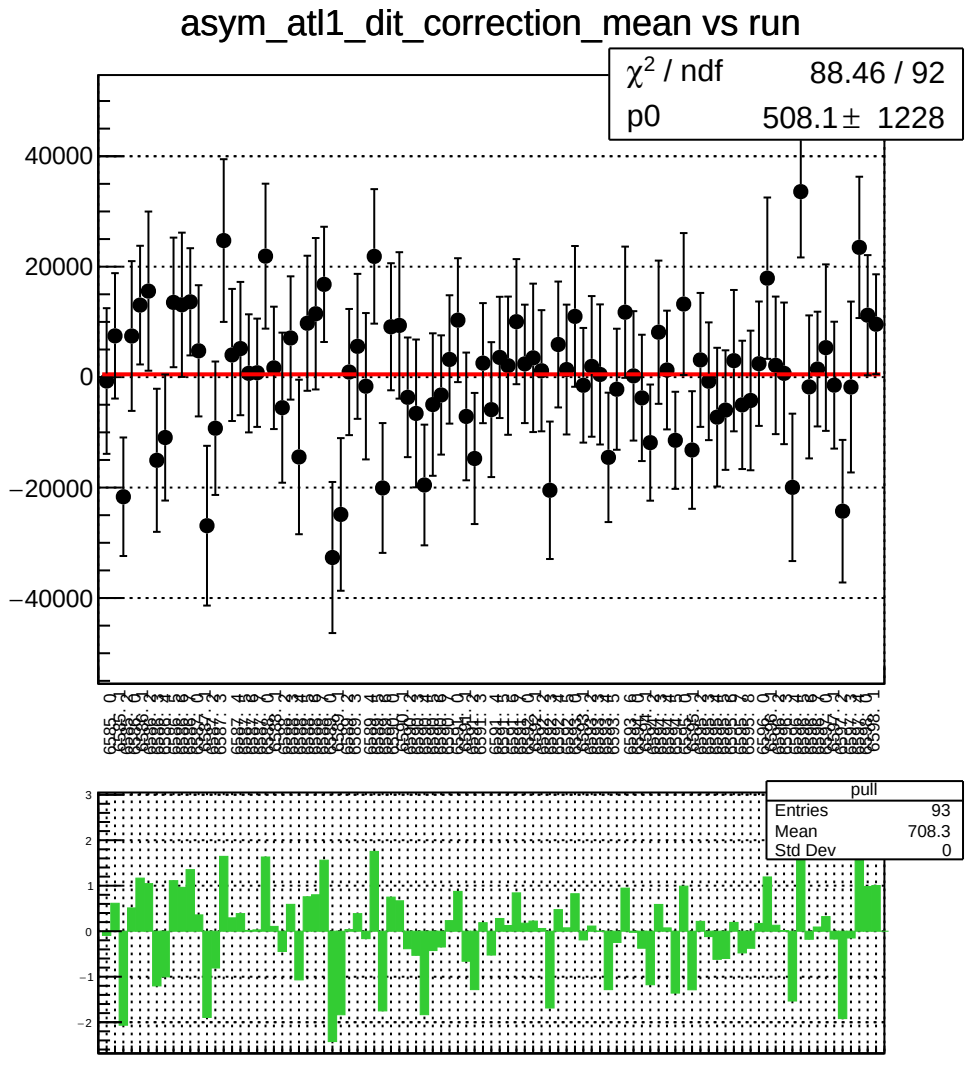

pull1D
Entries 93
Mean 0.001515
Std Dev 0.9795
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

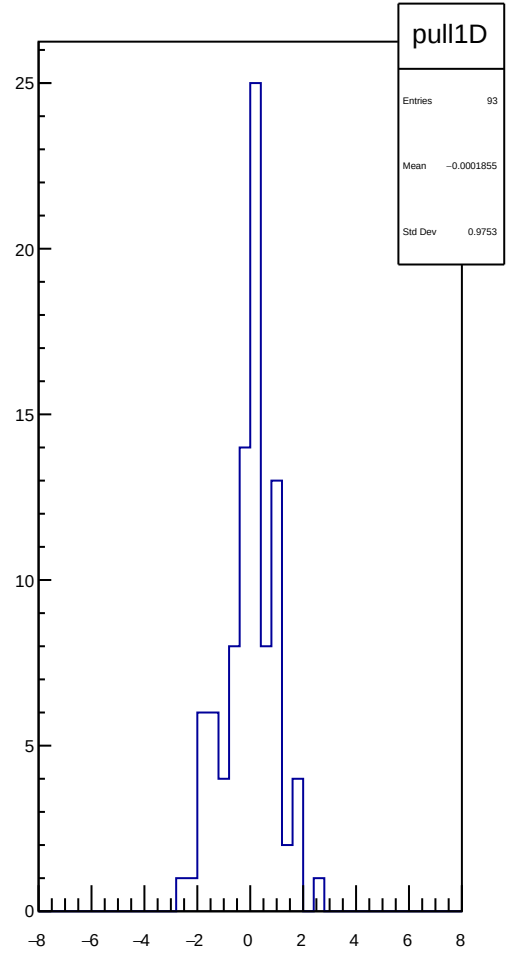

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 2.219e+04 / 92
p0 1156 ± 0.8741
1600
1500
1400
1300
1200
1100
1000

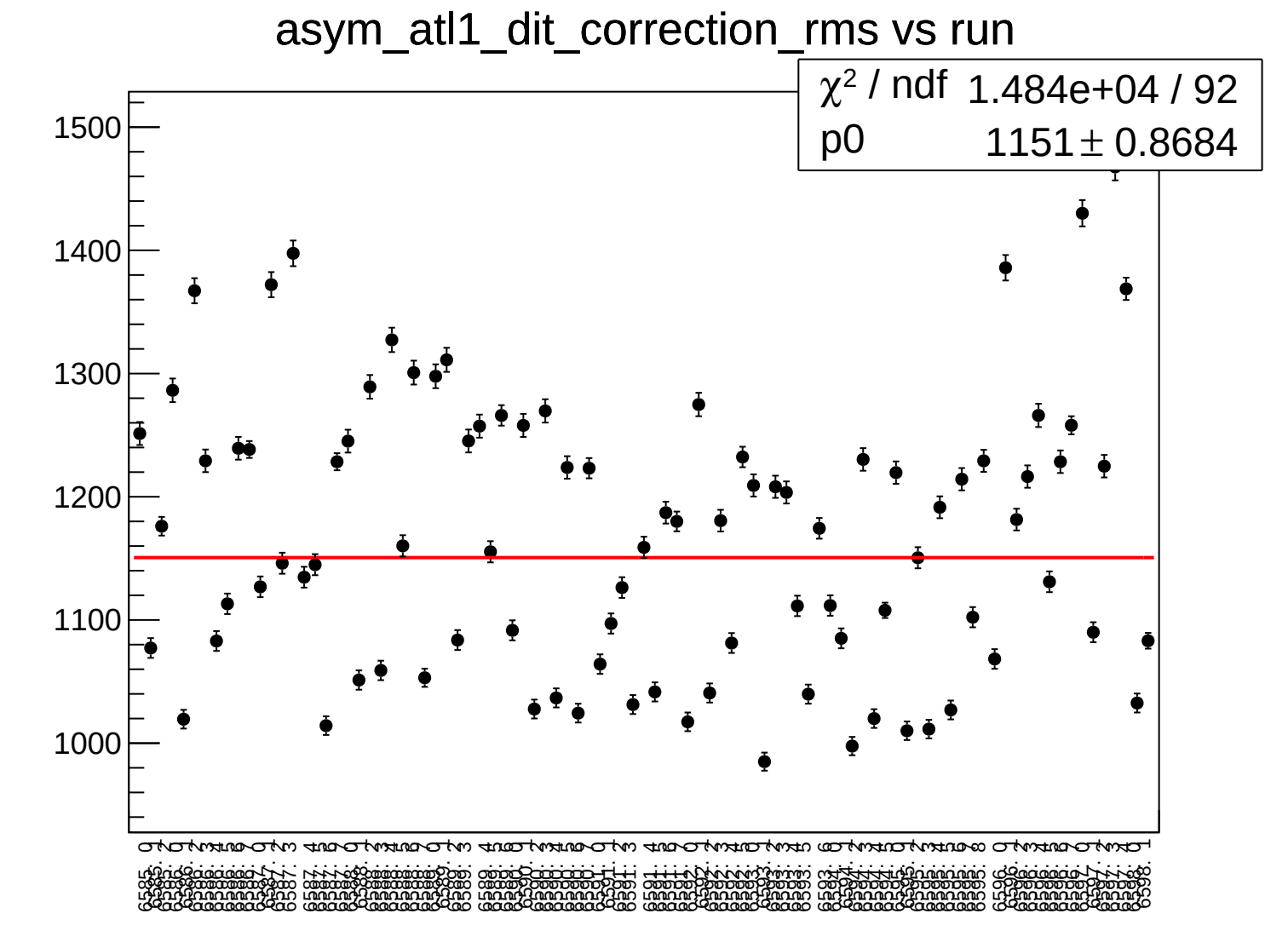

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 86.99 / 92
p0 623.3 ± 2545
pull
Entries 93
Mean 45.48
Std Dev 110.9

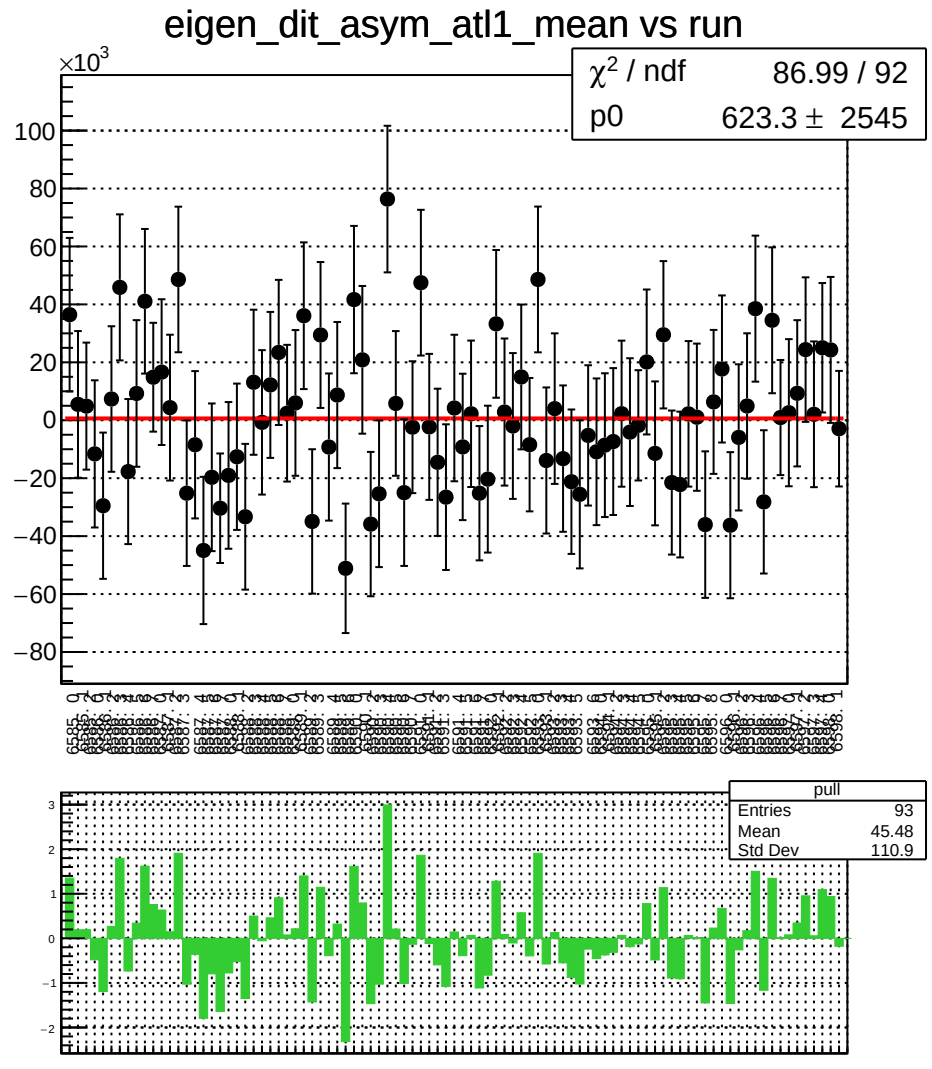

pull1D
Entries 93
Mean 0.008019
Std Dev 0.9671

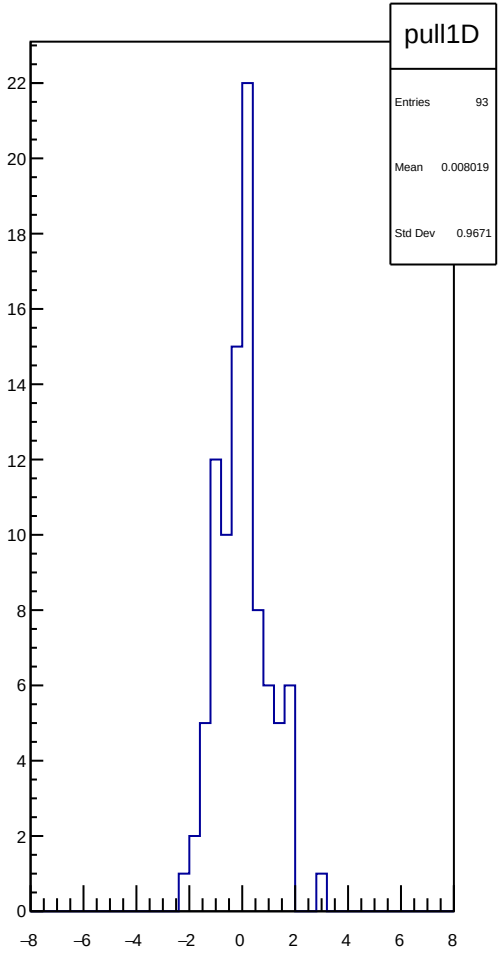

dit_asym_atl1_rms vs run
χ² / ndf 138.2 / 92
p0 2394 ± 1.8
2550
2500
2450
2400
2350

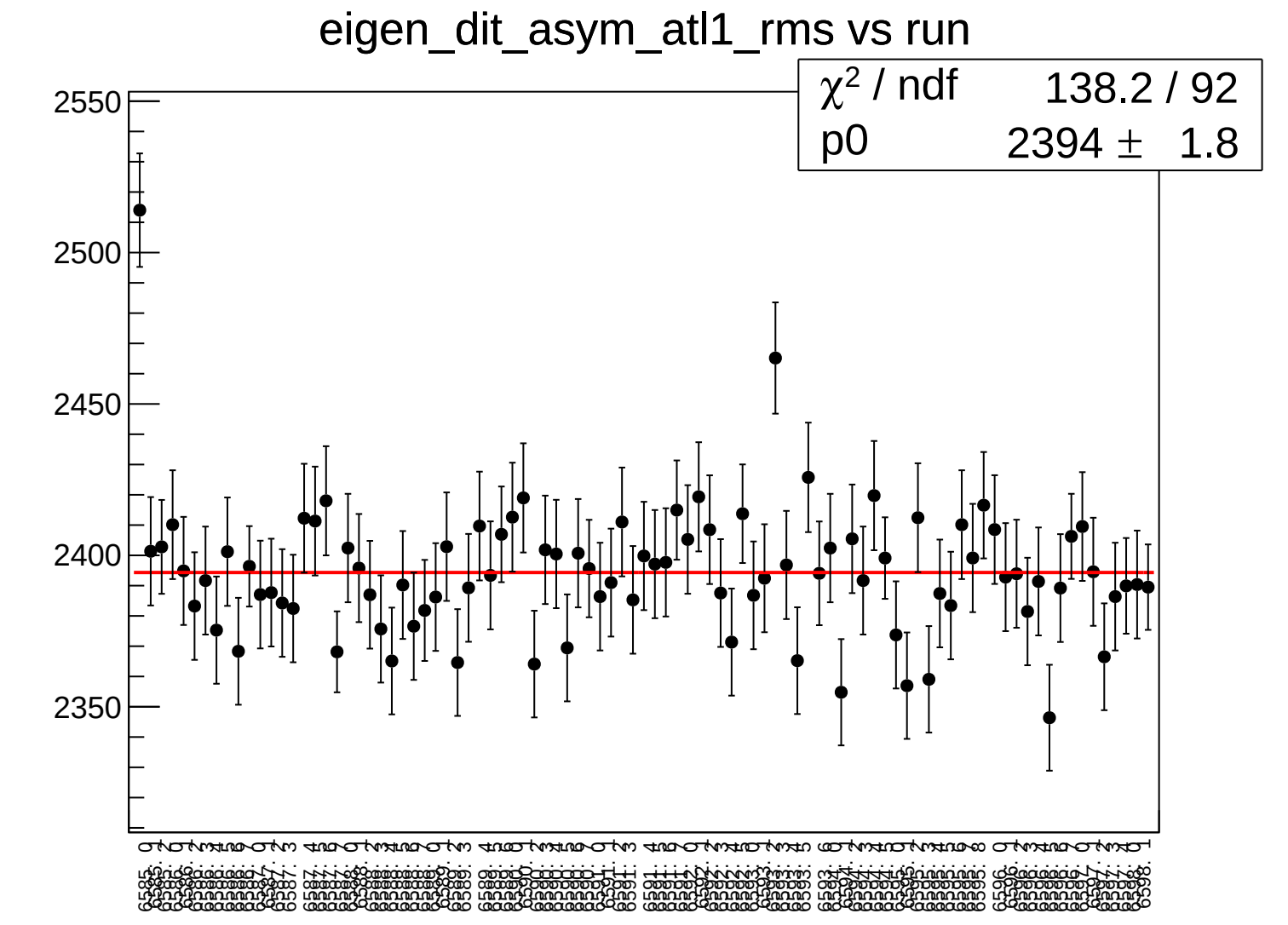

asym_atl1_dit_correction_mean vs run
χ² / ndf 88.46 / 92
p0 508.1± 1228
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 708.3
Std Dev 0
3
2
1
0
−1
−2

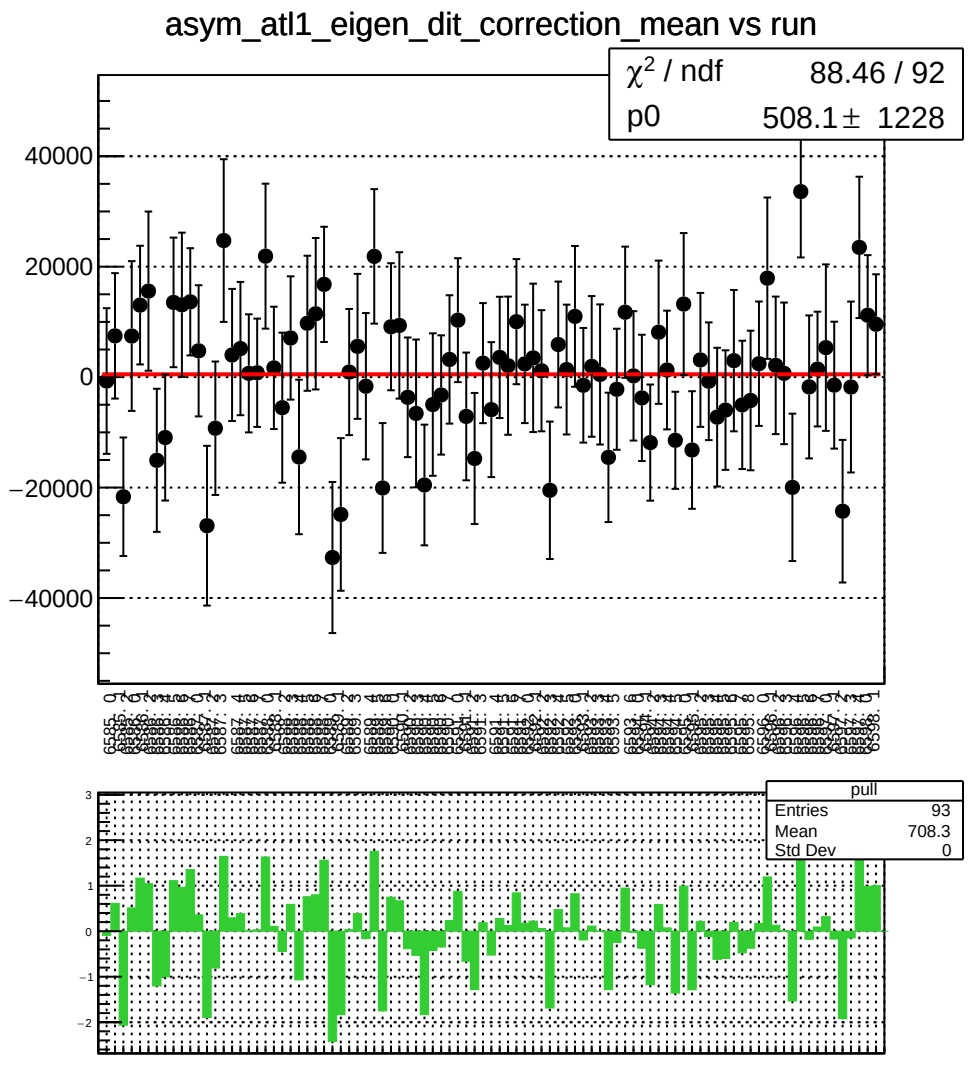

pull1D
Entries 93
Mean −0.0001855
Std Dev 0.9753
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

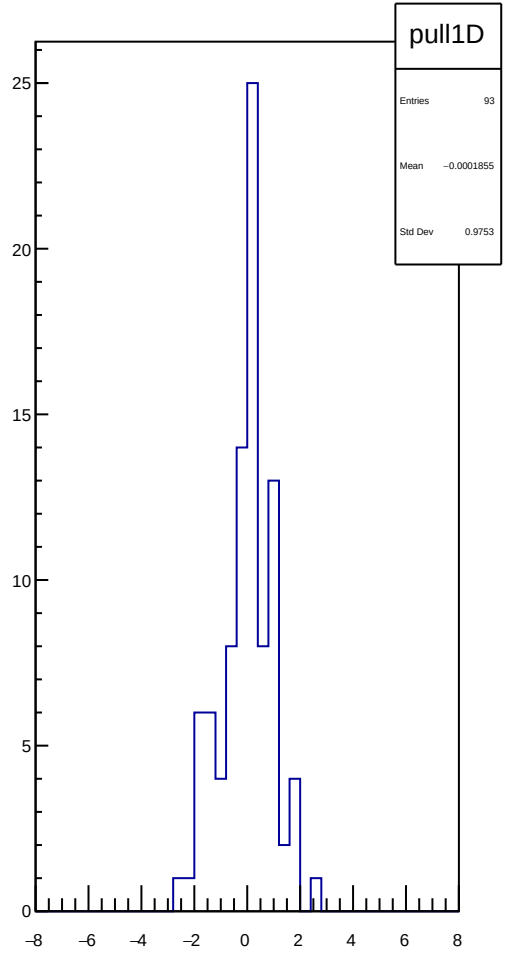

asym_atl1_dit_correction_rms vs run
χ² / ndf 1.484e+04 / 92
p0 1151 ± 0.8684
1500
1400
1300
1200
1100
1000

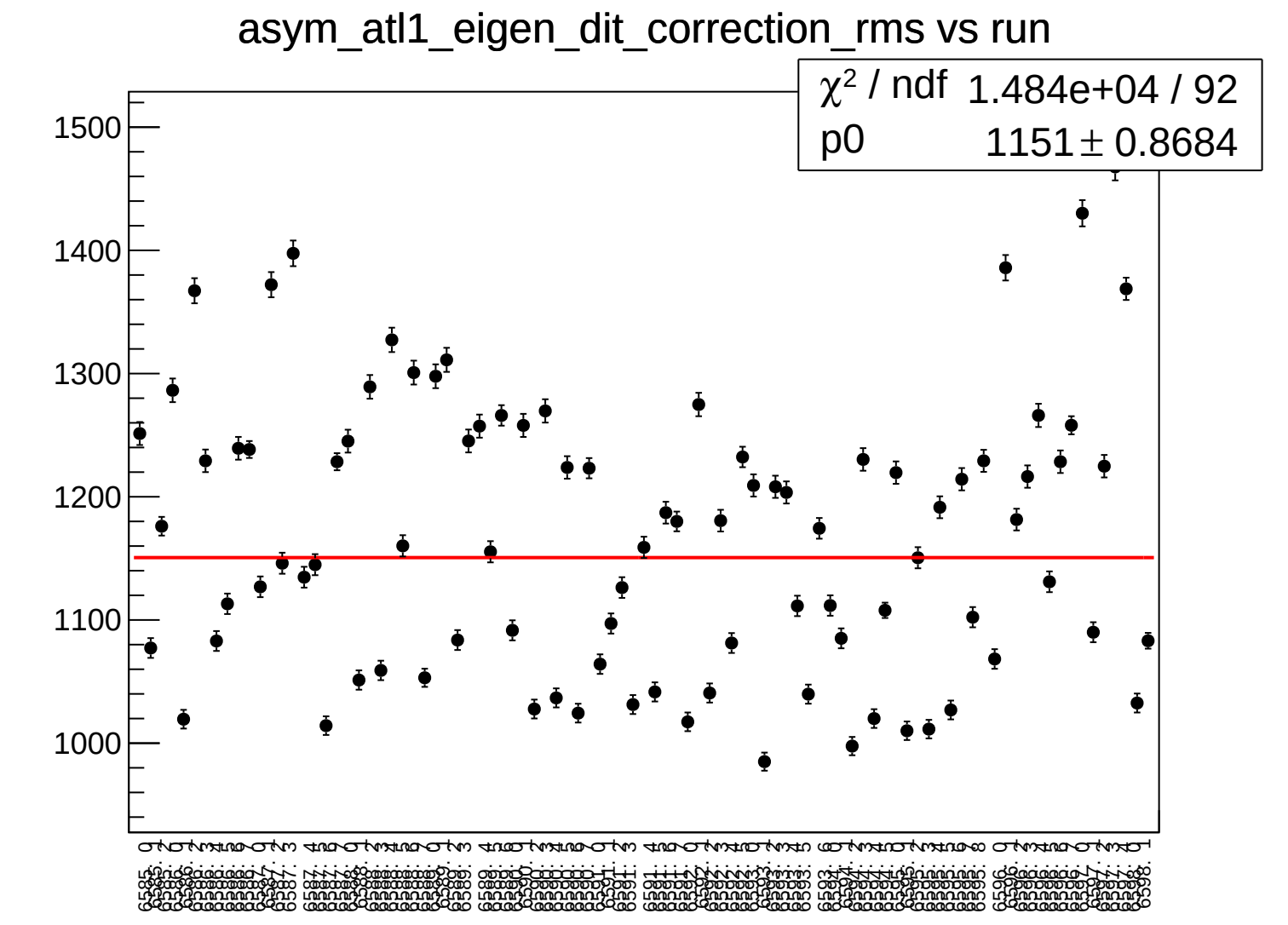

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 86.99 / 92
p0 623.3 ± 2545
pull
Entries 93
Mean 45.48
Std Dev 110.9

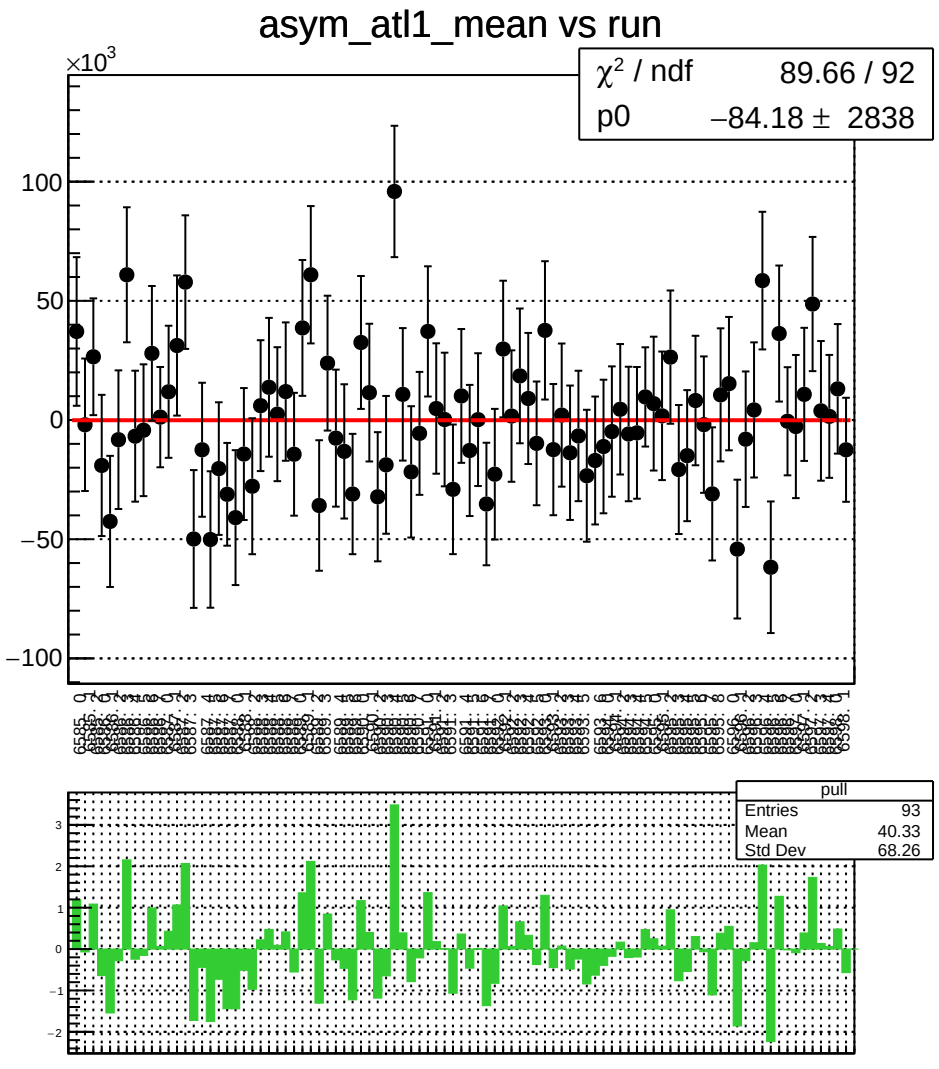

pull1D
Entries 93
Mean 0.008019
Std Dev 0.9671

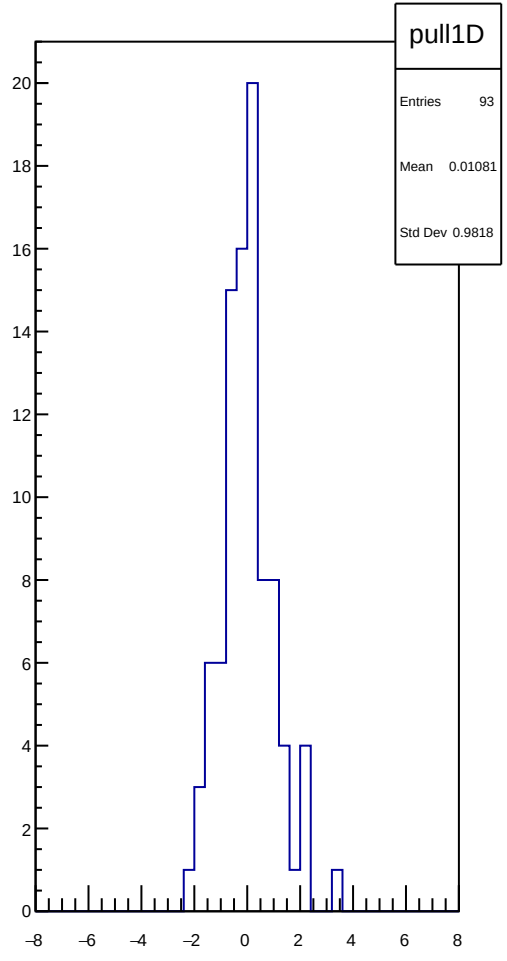

eigen_dit_asym_atl1_rms vs run
χ² / ndf 138.2 / 92
p0 2394 ± 1.8
2550
2500
2450
2400
2350

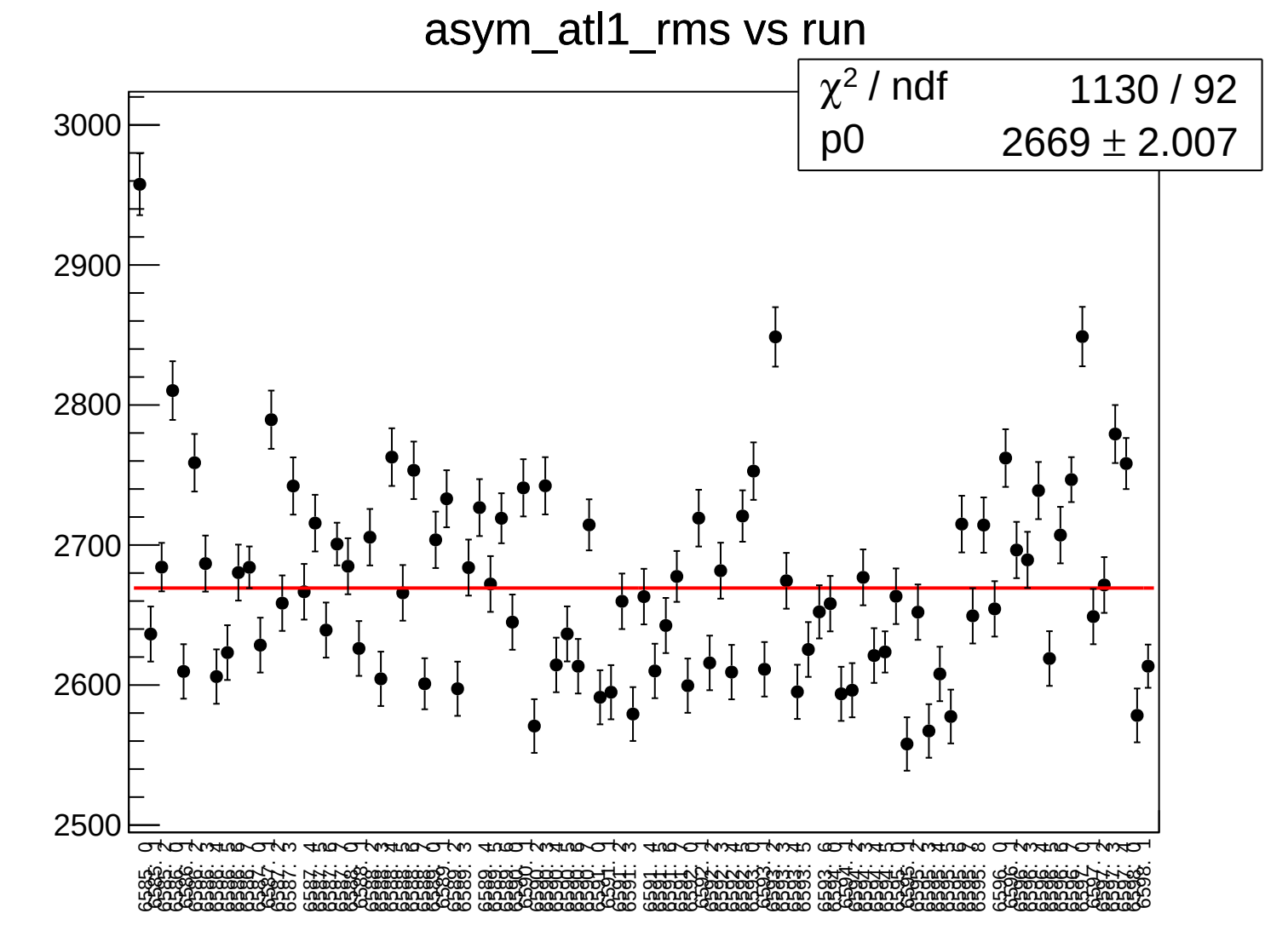

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 88.46 / 92
p0 508.1 ± 1228
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 708.3
Std Dev 0
3
2
1
0
−1
−2

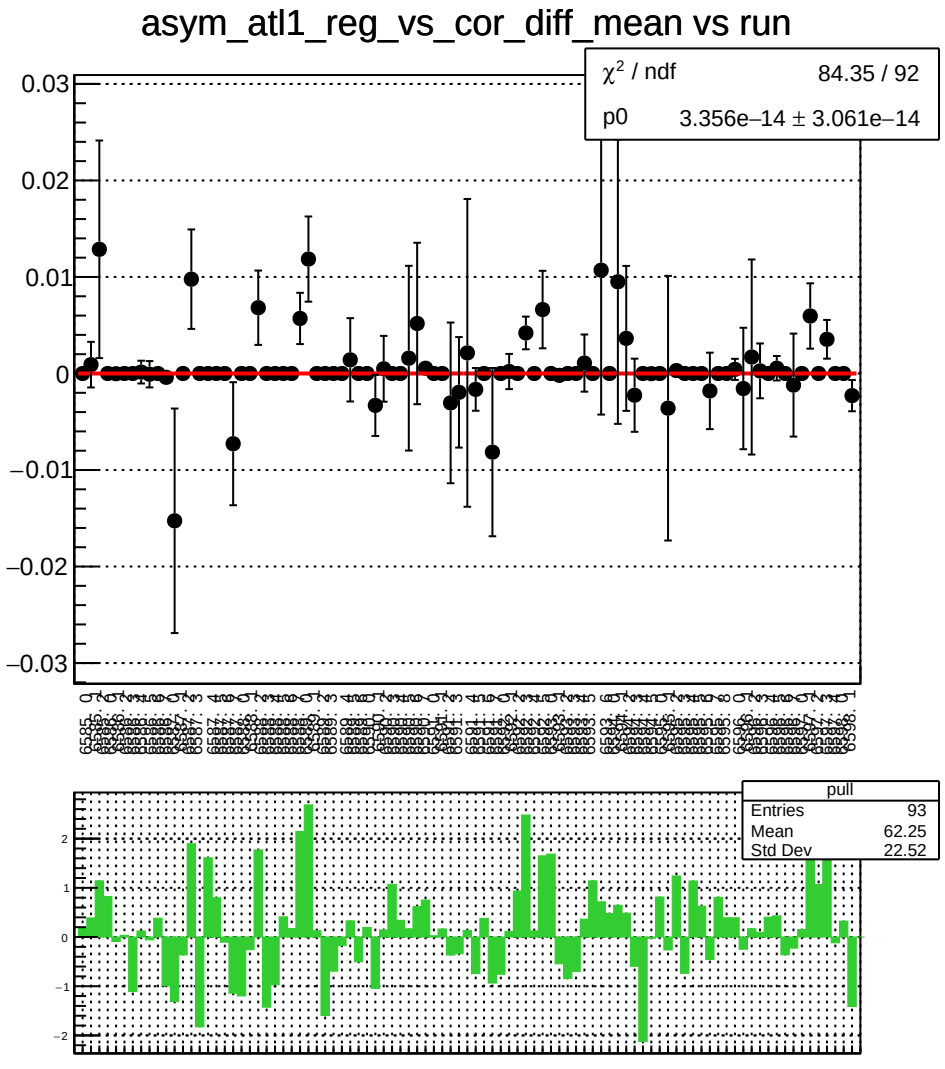

pull1D
Entries 93
Mean −0.0001855
Std Dev 0.9753
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

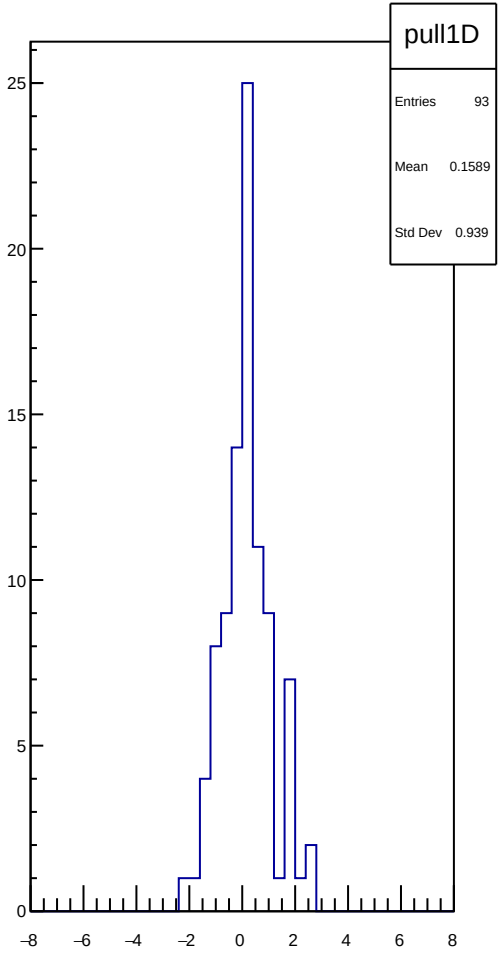

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 1.484e+04 / 92
p0 1151 ± 0.8684
1500
1400
1300
1200
1100
1000

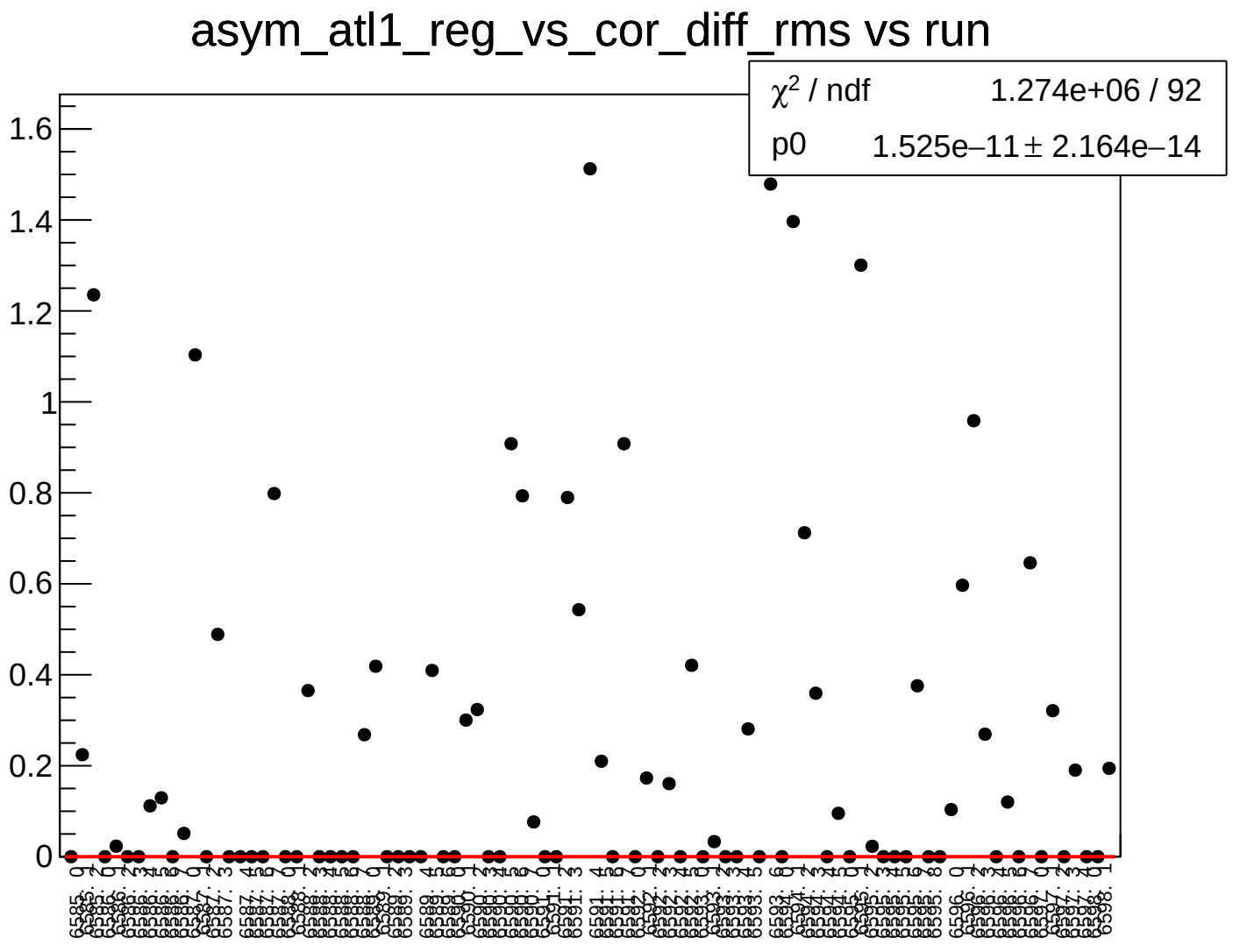

asym_atl1_mean vs run
χ^2 / ndf 89.66 / 92
p0 −84.18 ± 2838
×10^3
100
50
0
−50
−100
pull
Entries 93
Mean 40.33
Std Dev 68.26
3
2
1
0
−1
−2

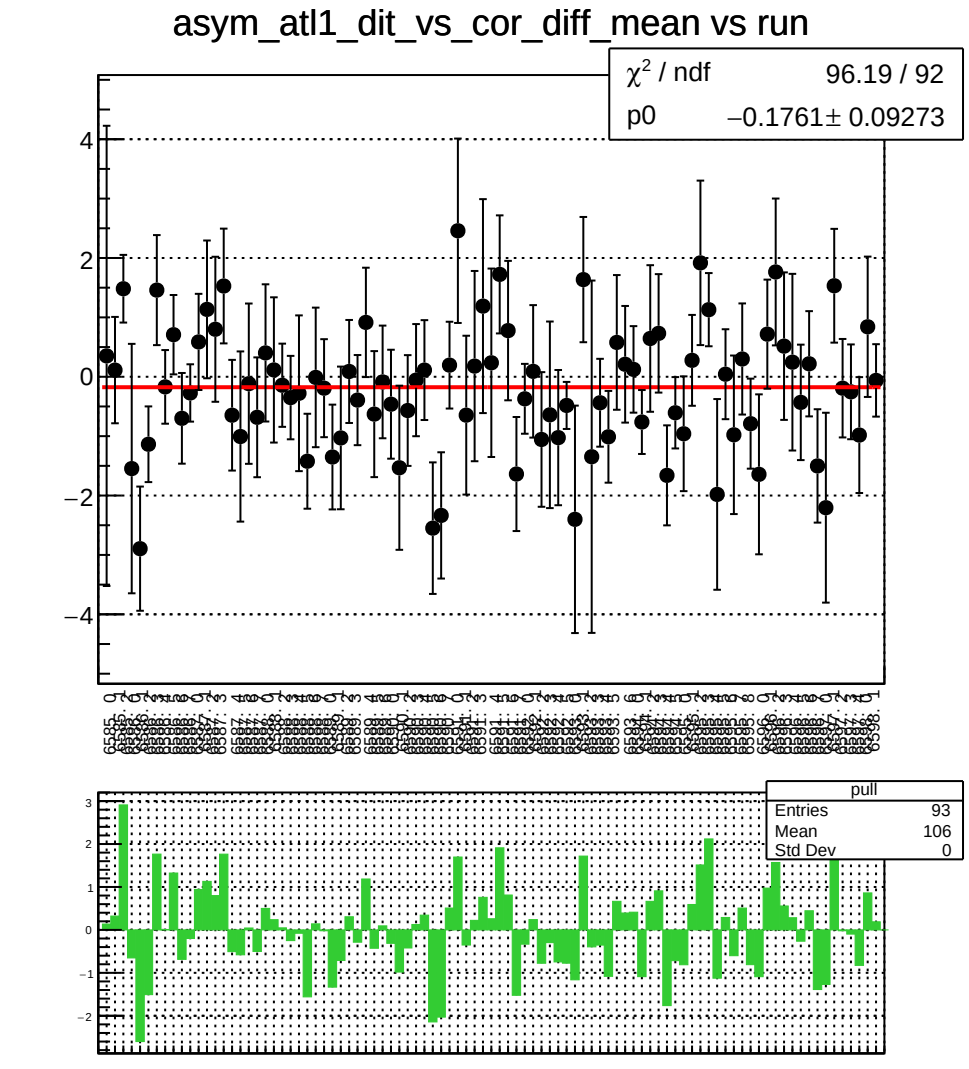

pull1D
Entries 93
Mean 0.01081
Std Dev 0.9818
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

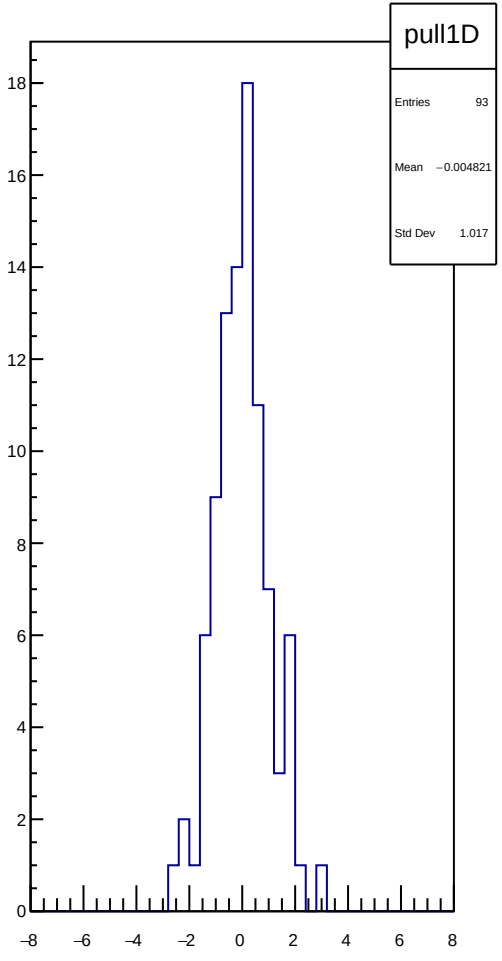

asym_atl1_rms vs run
χ^2 / ndf 1130 / 92
p0 2669 ± 2.007
3000
2900
2800
2700
2600
2500

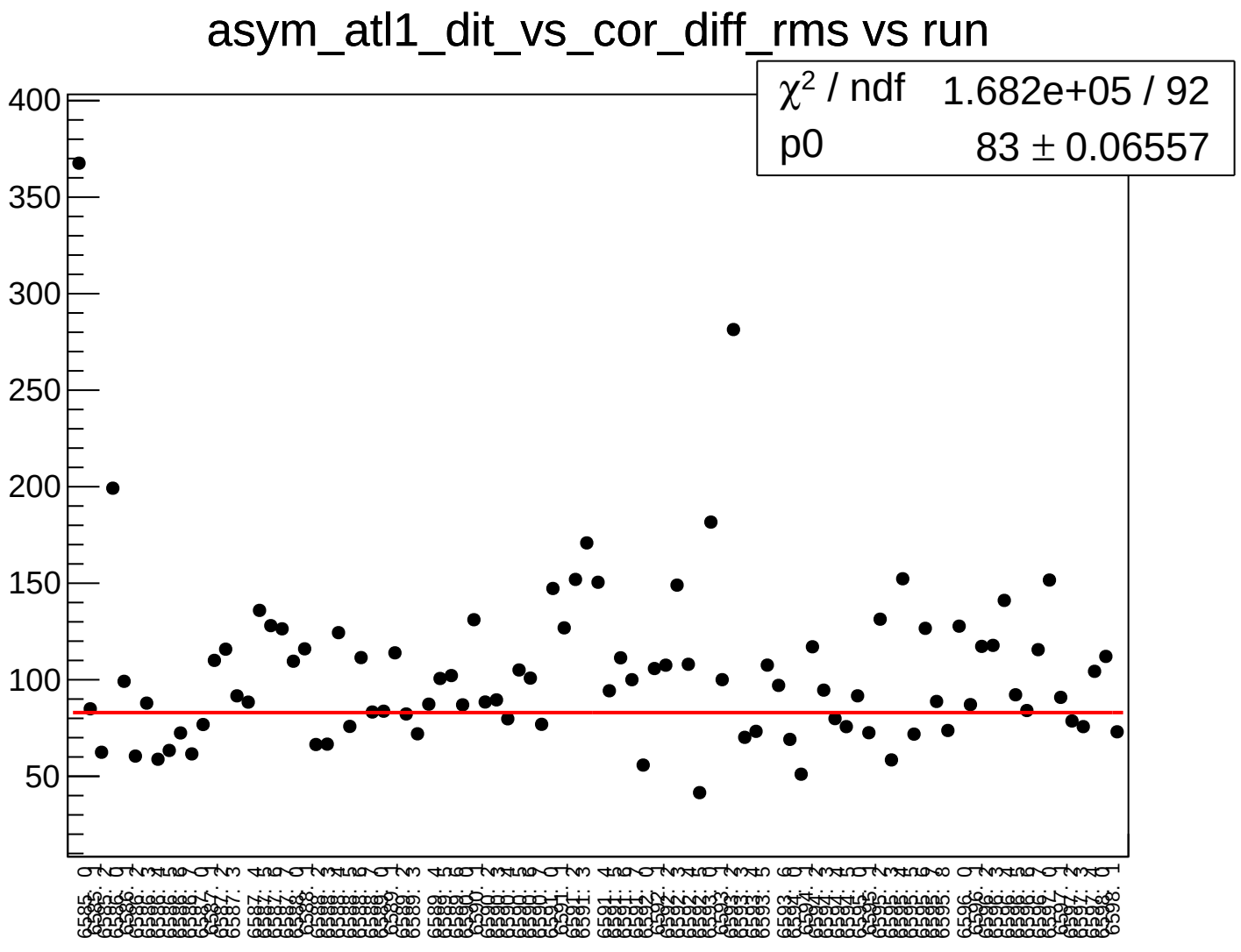

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 84.35 / 92
p0 3.356e−14 ± 3.061e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 62.25
Std Dev 22.52
2
1
0
−1
−2

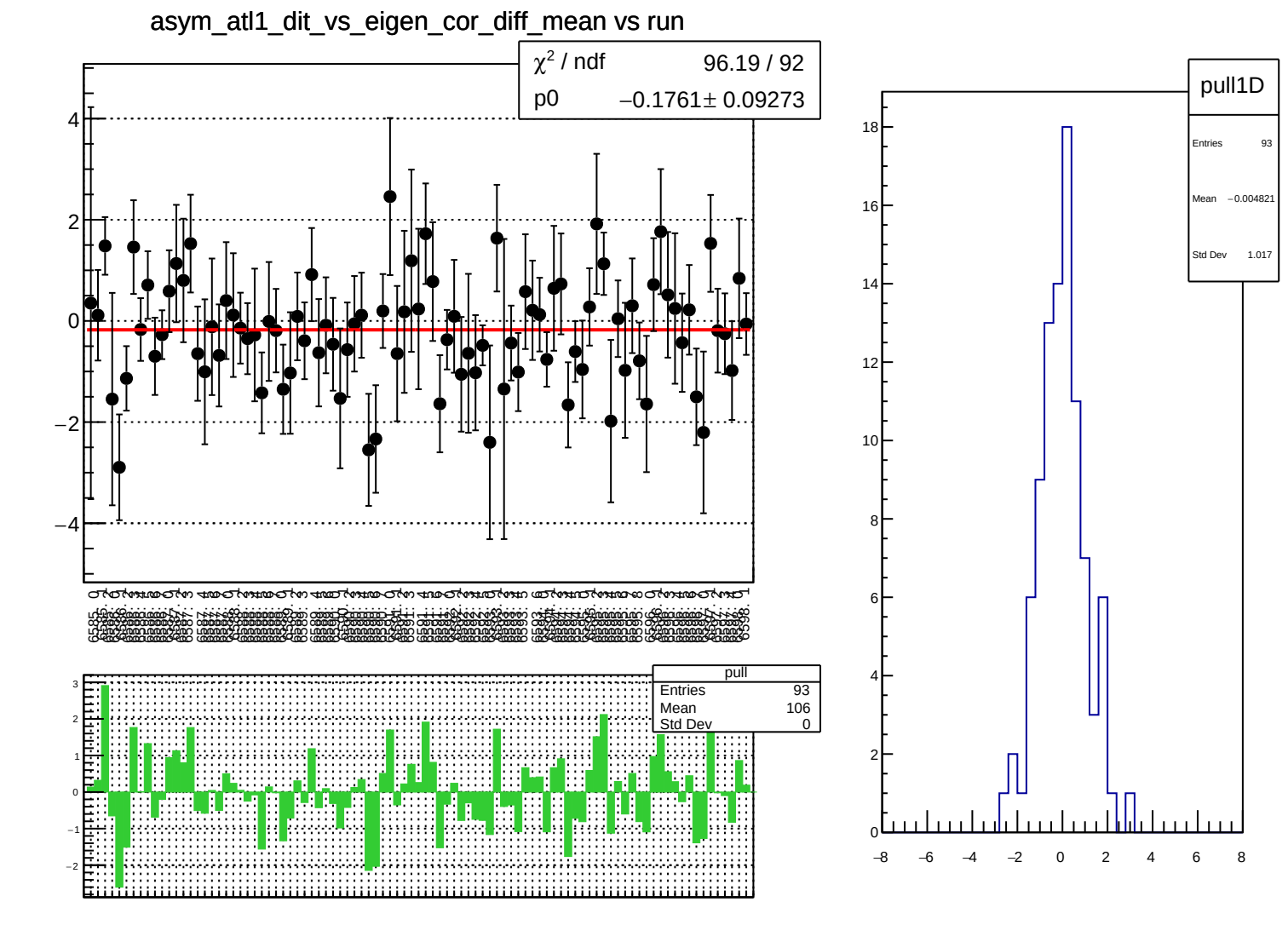

pull1D
Entries 93
Mean 0.1589
Std Dev 0.939
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

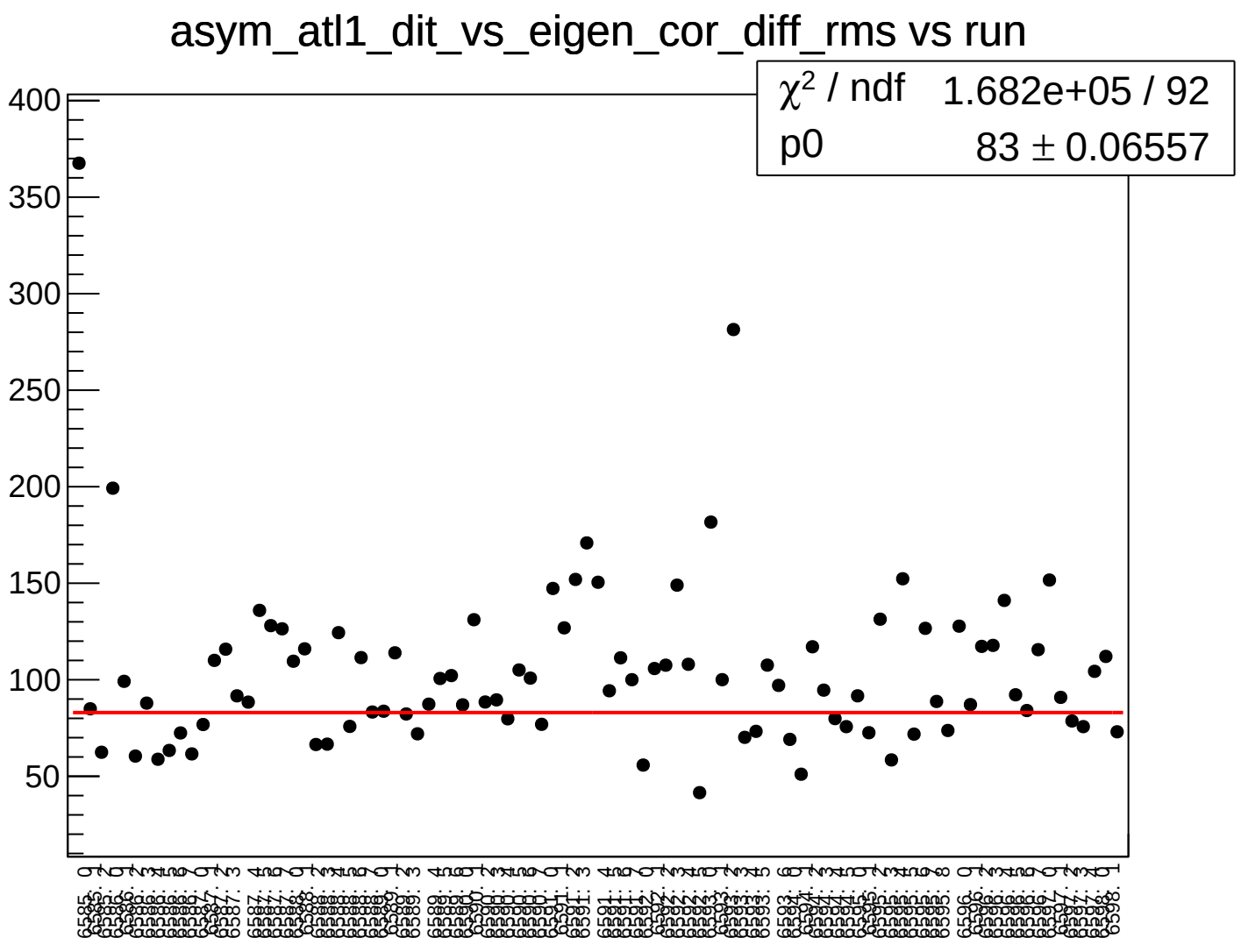

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.274e+06 / 92
p0 1.525e−11 ± 2.164e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

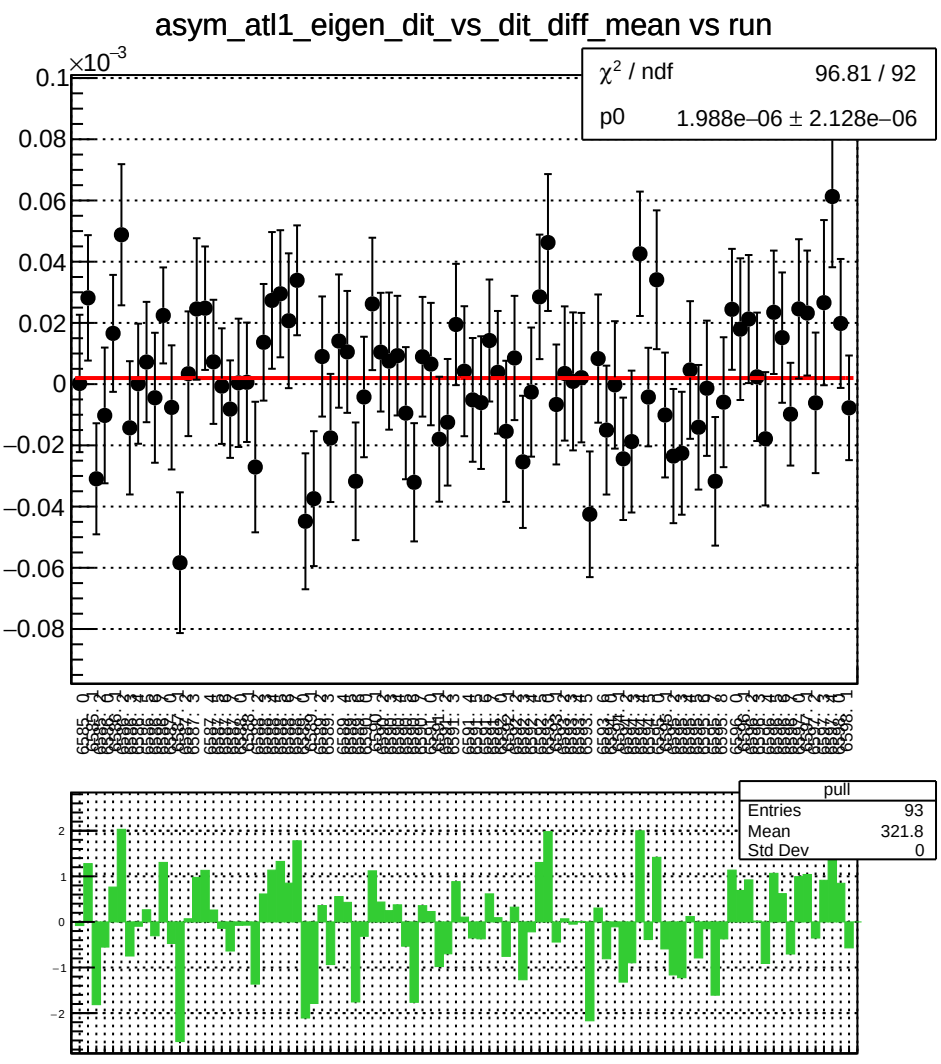

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 96.19 / 92
p0 −0.1761± 0.09273
pull
Entries 93
Mean 106
Std Dev 0

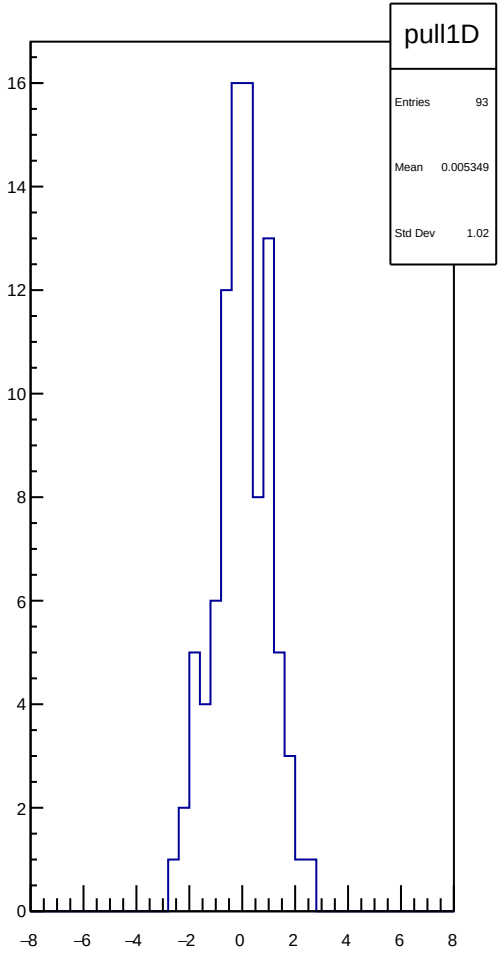

pull1D
Entries 93
Mean −0.004821
Std Dev 1.017

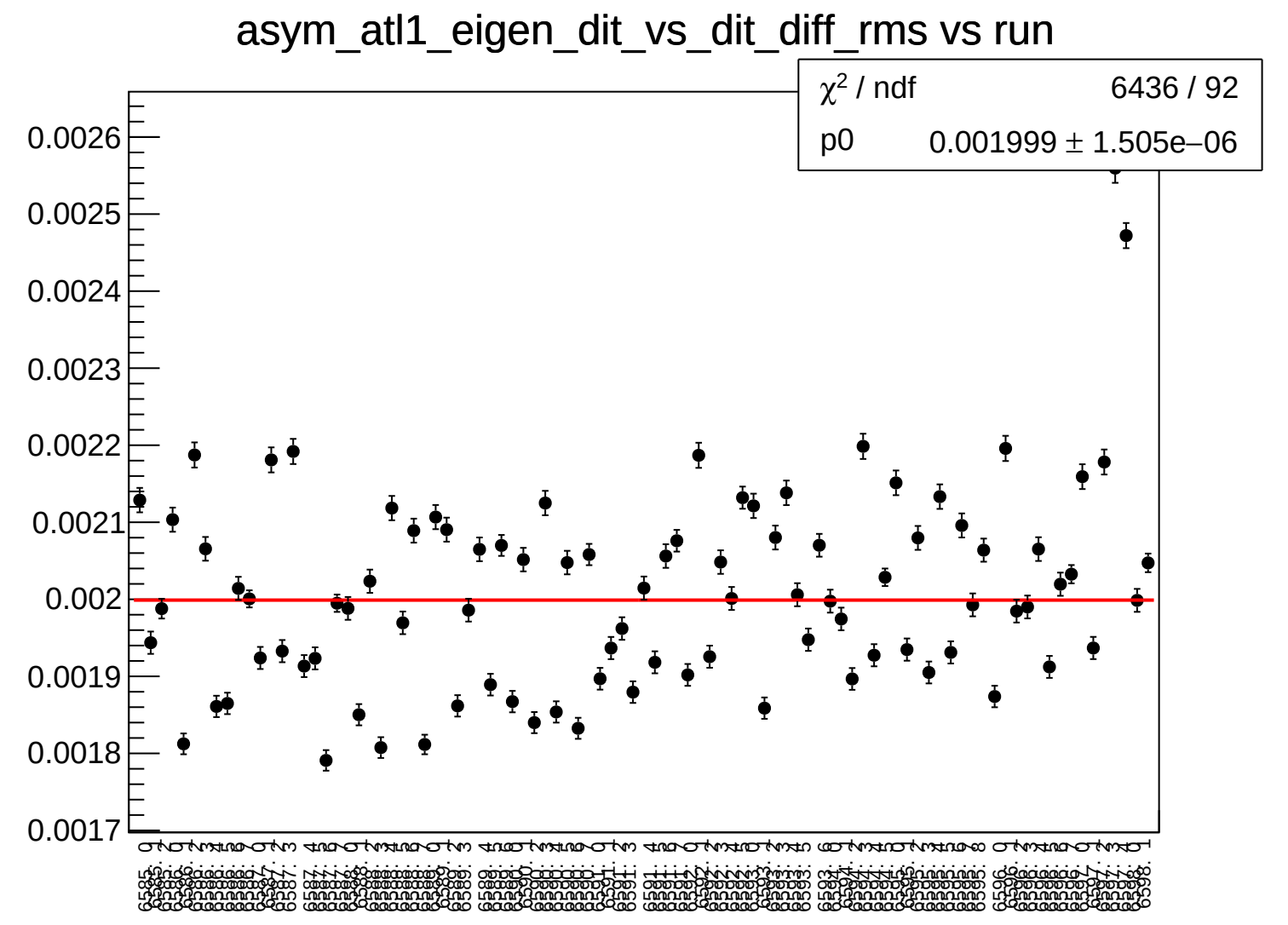

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.682e+05 / 92
p0 83 ± 0.06557
400
350
300
250
200
150
100
50

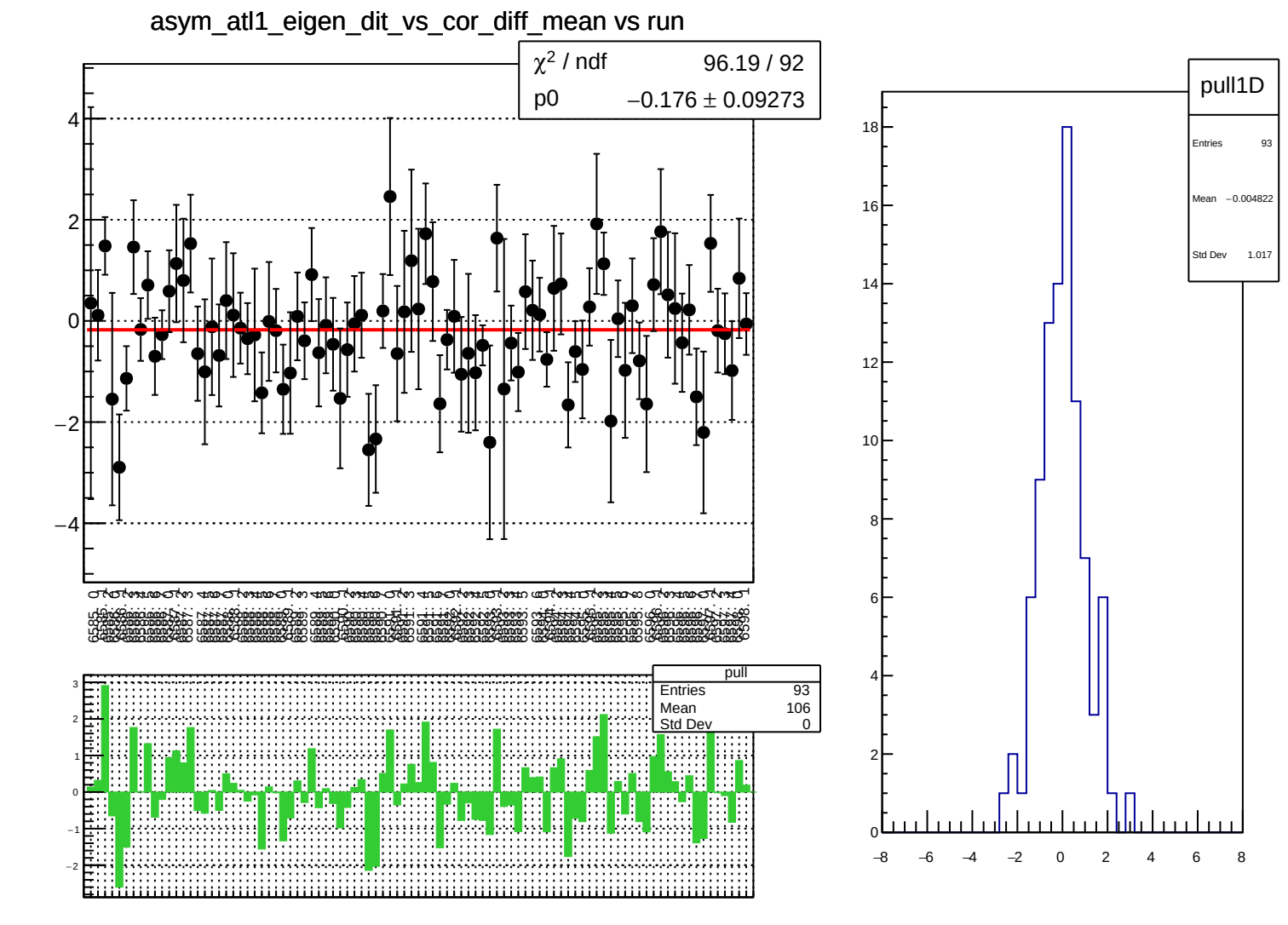

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.19 / 92
p0 −0.1761 ± 0.09273
pull
Entries 93
Mean 106
Std Dev 0
pull1D
Entries 93
Mean −0.004821
Std Dev 1.017

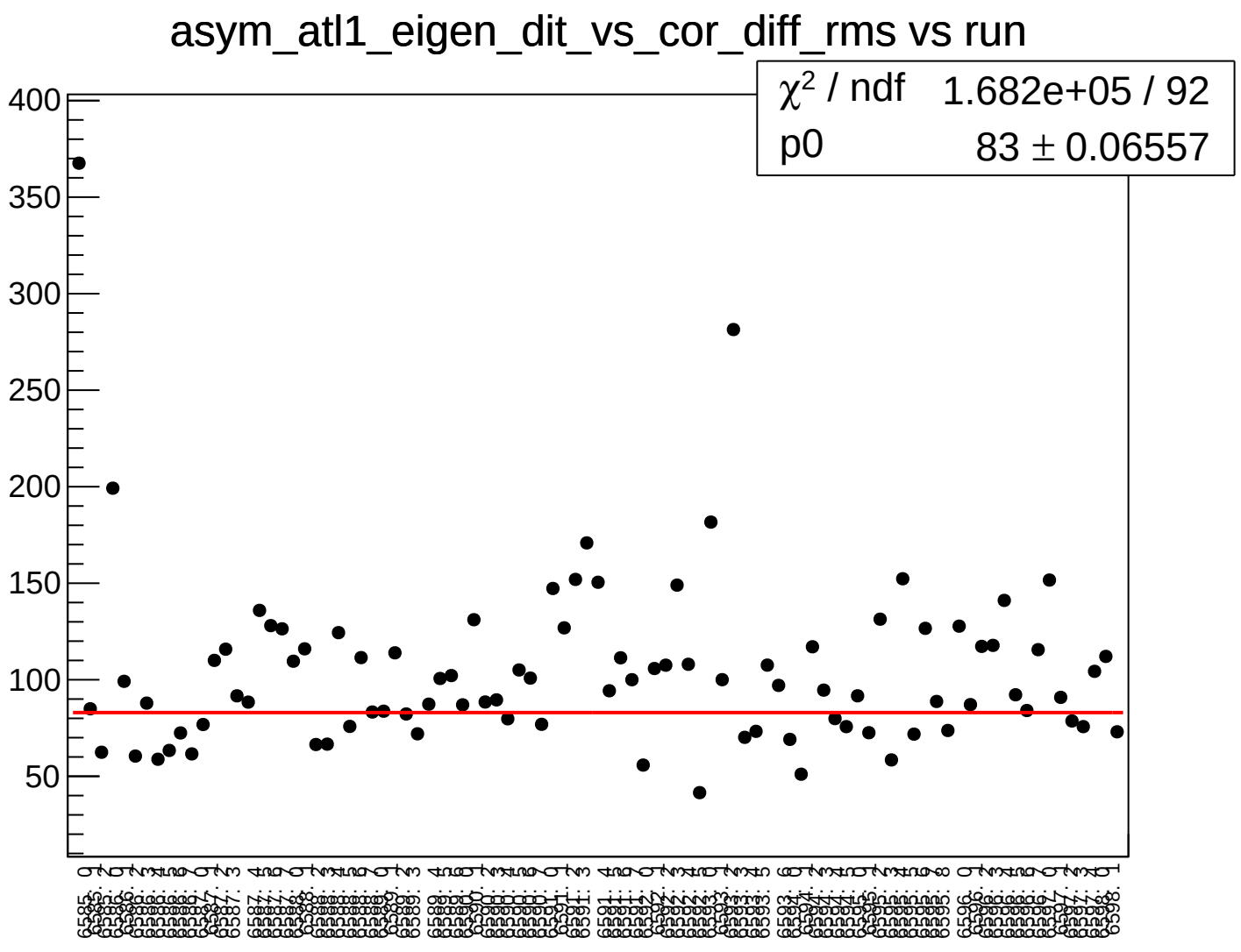

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.682e+05 / 92
p0 83 ± 0.06557
400
350
300
250
200
150
100
50

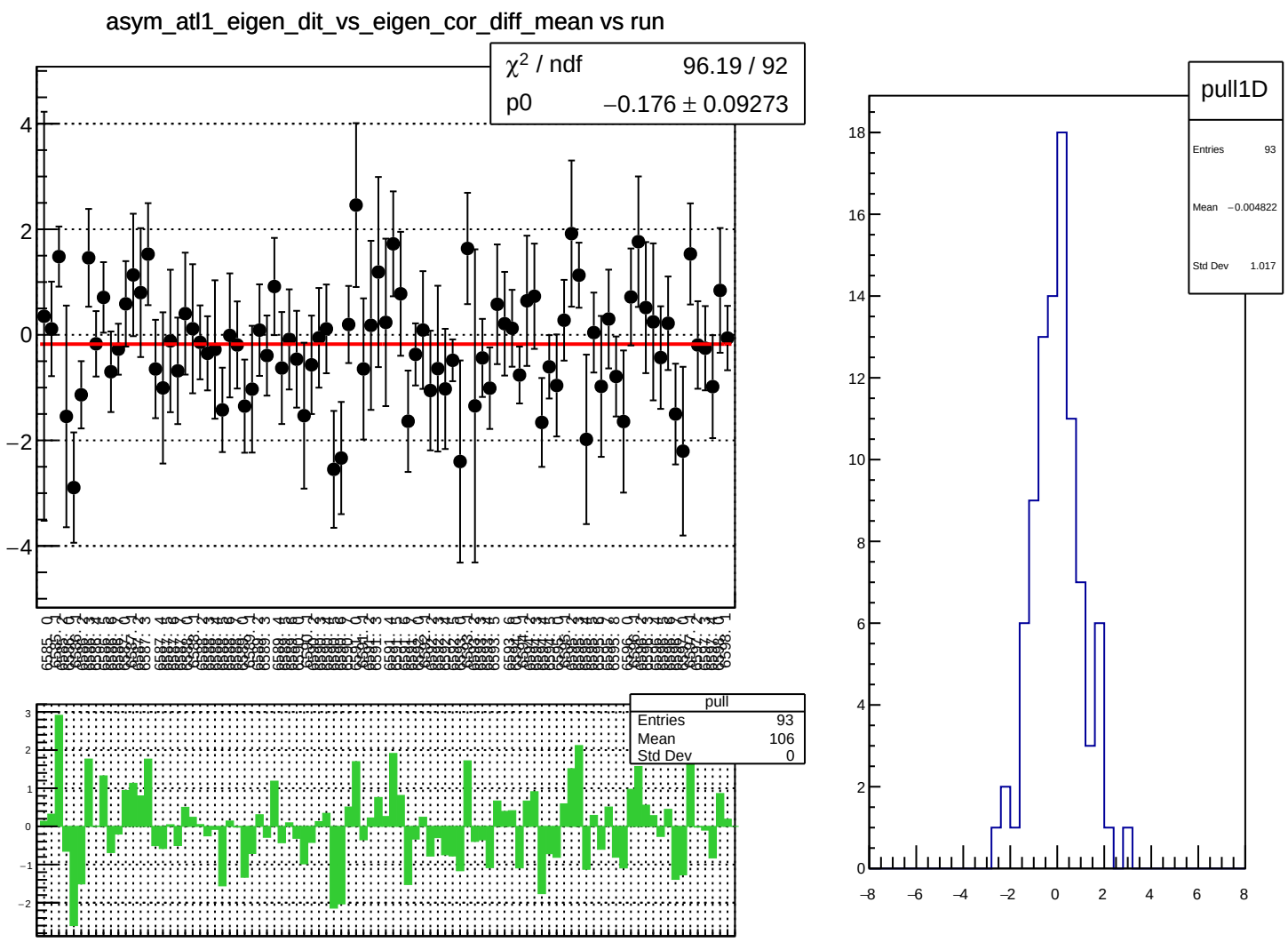

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.81 / 92
p0 1.988e−06 ± 2.128e−06
pull
Entries 93
Mean 321.8
Std Dev 0

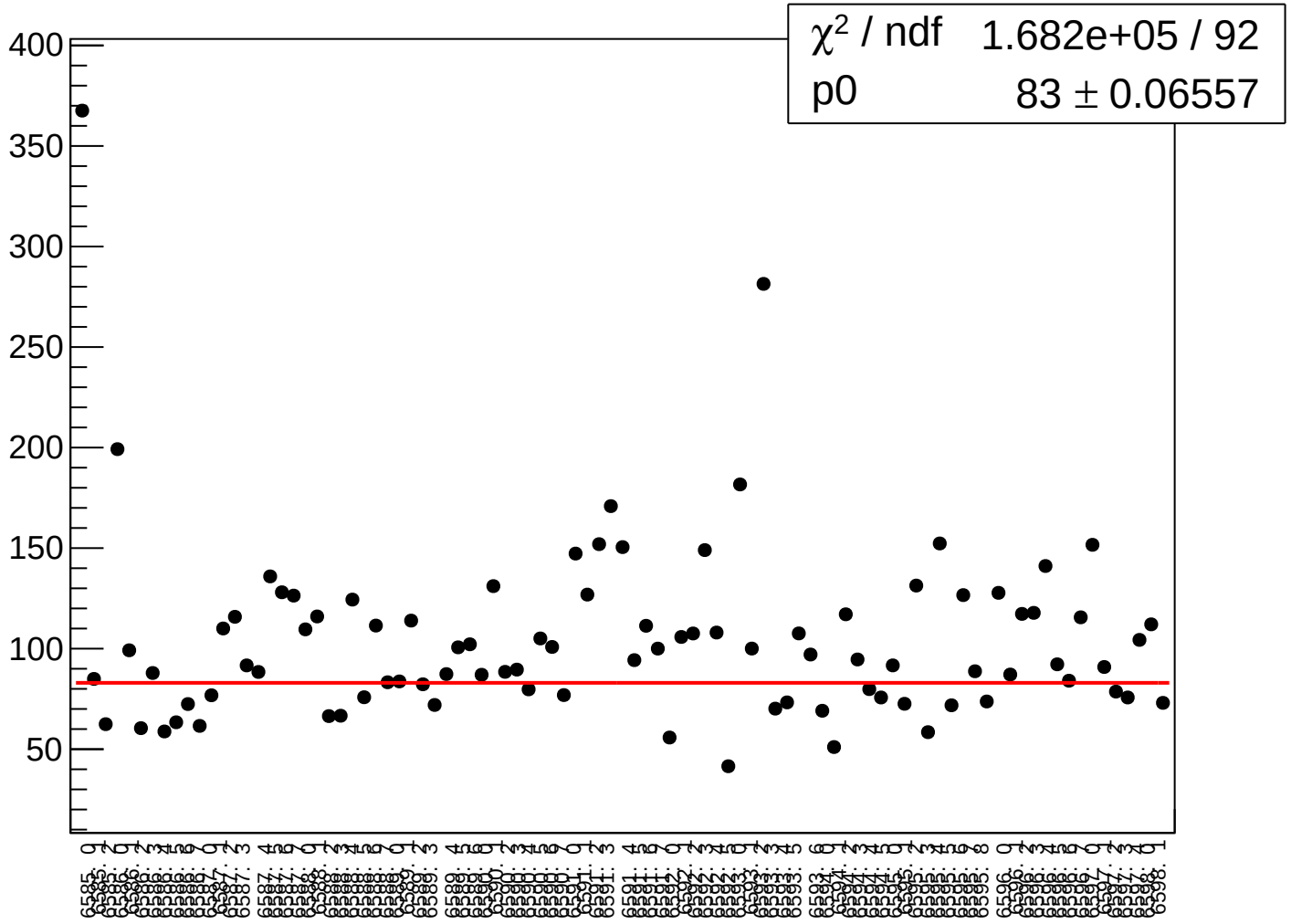

pull1D
Entries 93
Mean 0.005349
Std Dev 1.02

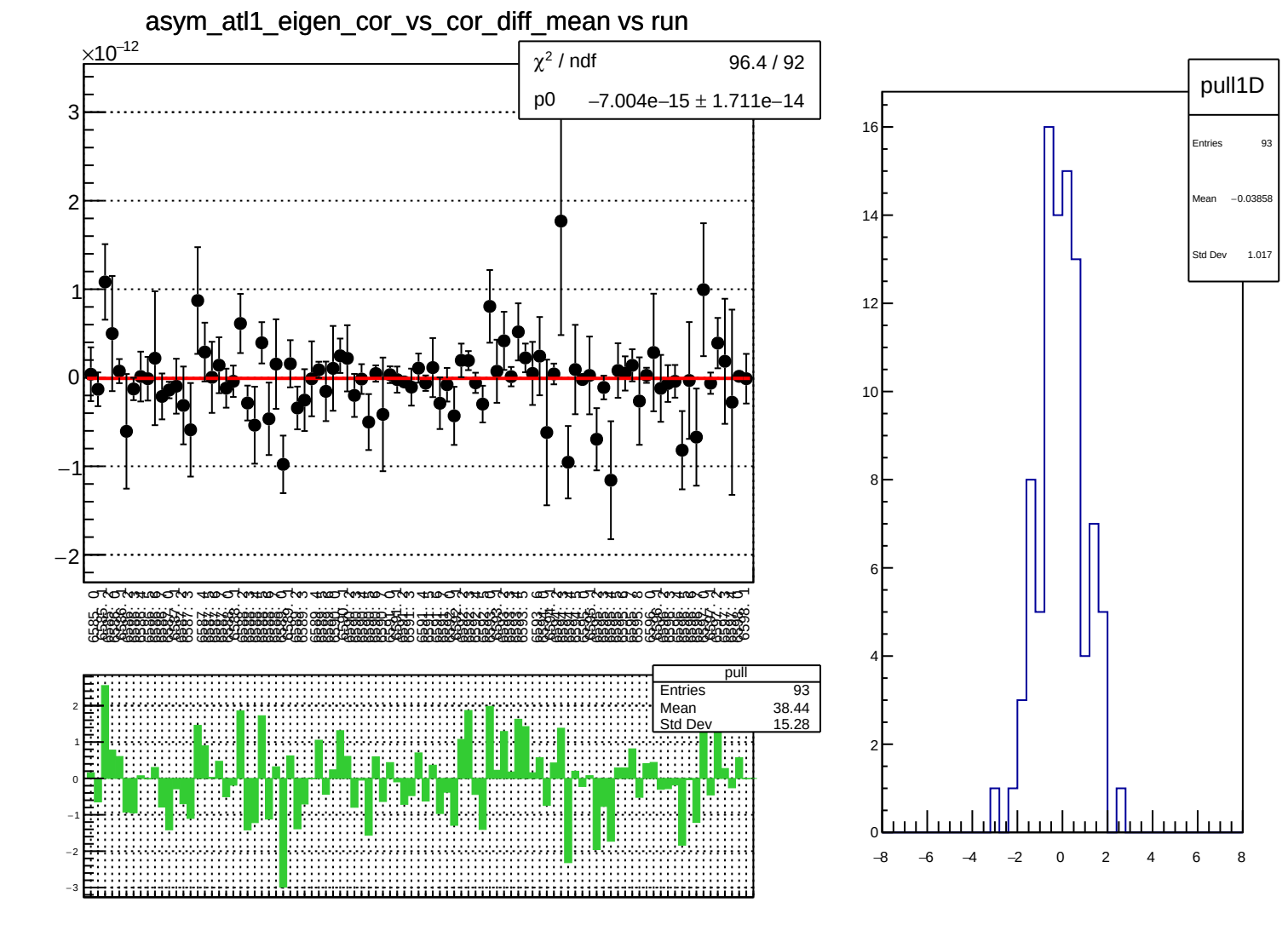

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6436 / 92
p0 0.001999 ± 1.505e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

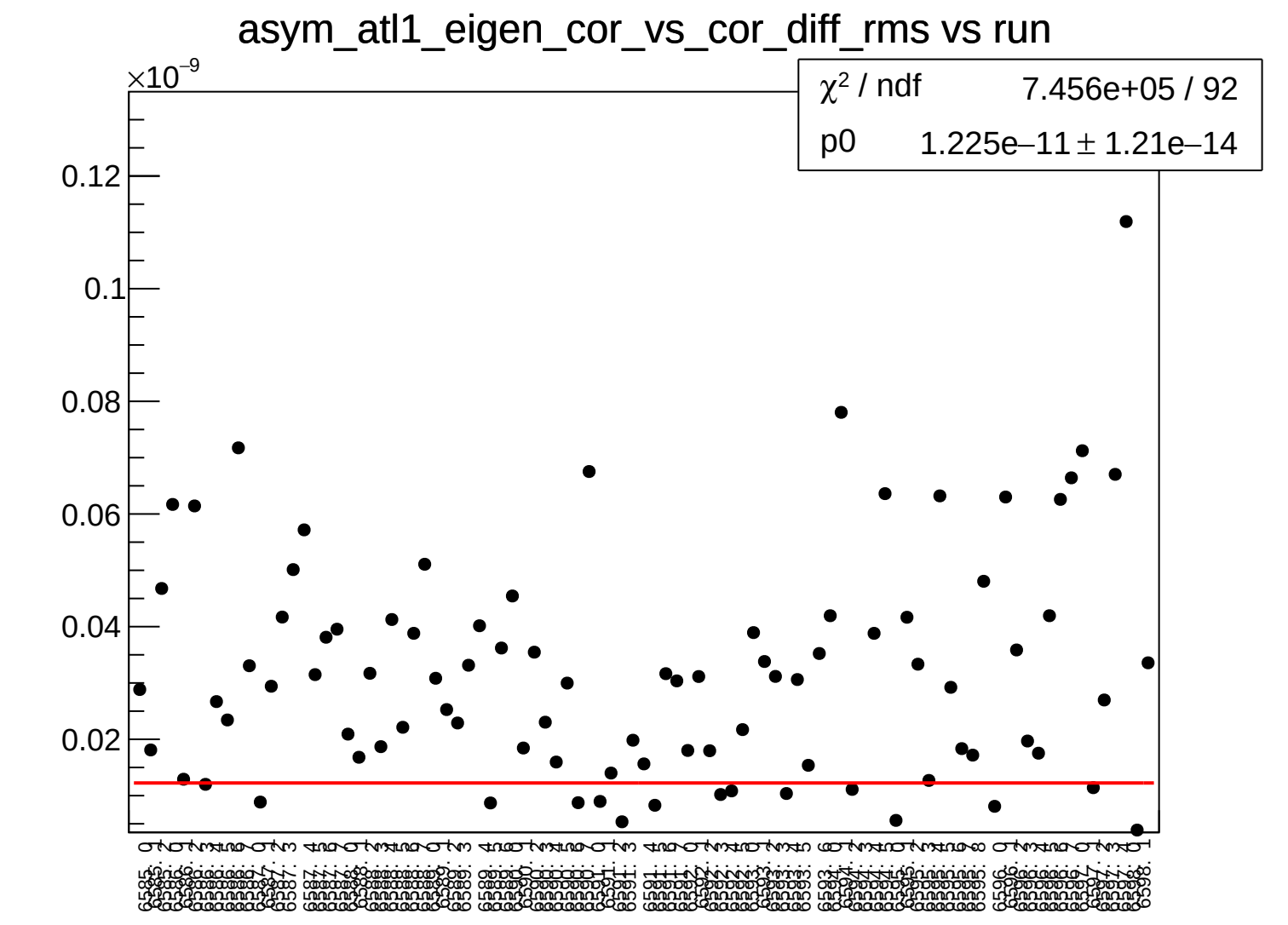

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.19 / 92
p0 −0.176 ± 0.09273
pull
Entries 93
Mean 106
Std Dev 0
pull1D
Entries 93
Mean −0.004822
Std Dev 1.017

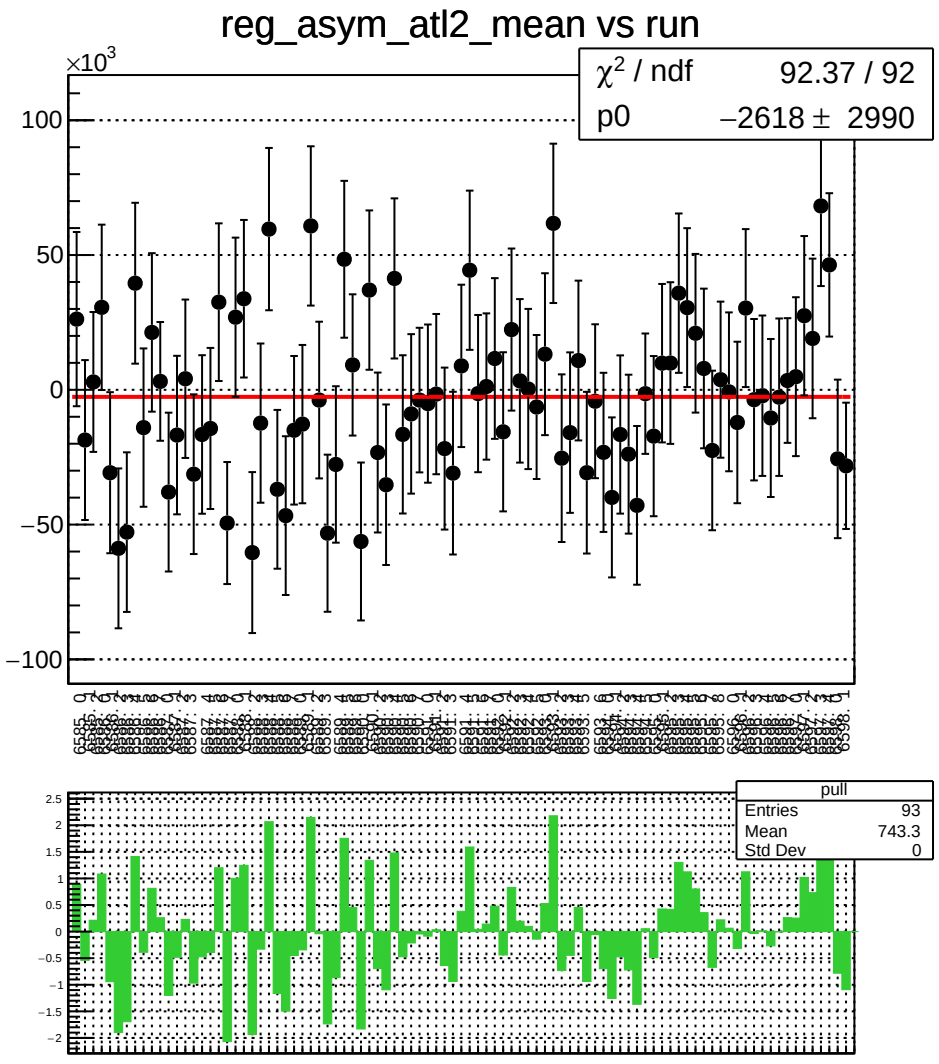

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.682e+05 / 92
p0 83 ± 0.06557
400
350
300
250
200
150
100
50

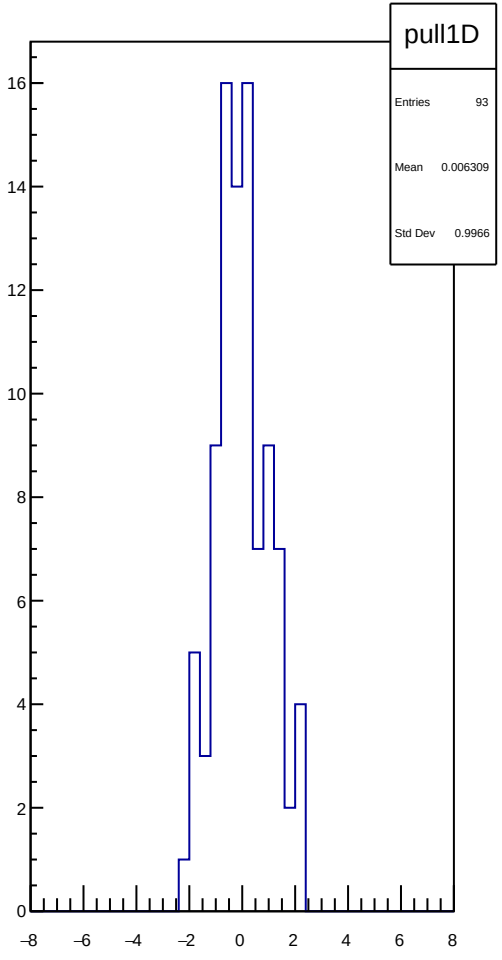

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.19 / 92
p0 −0.176 ± 0.09273
pull
Entries 93
Mean 106
Std Dev 0
pull1D
Entries 93
Mean −0.004822
Std Dev 1.017

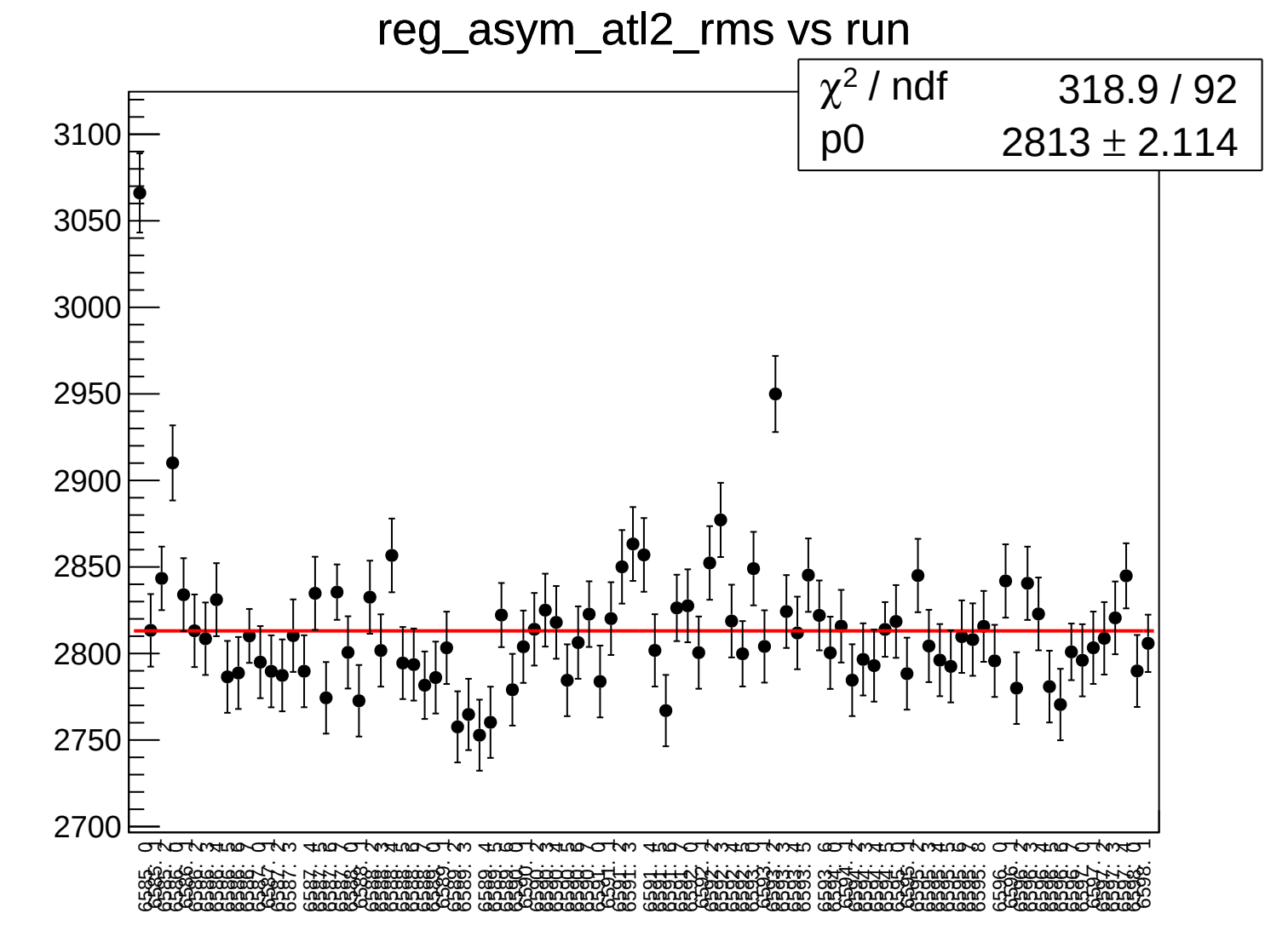

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.682e+05 / 92
p0 83 ± 0.06557
400
350
300
250
200
150
100
50

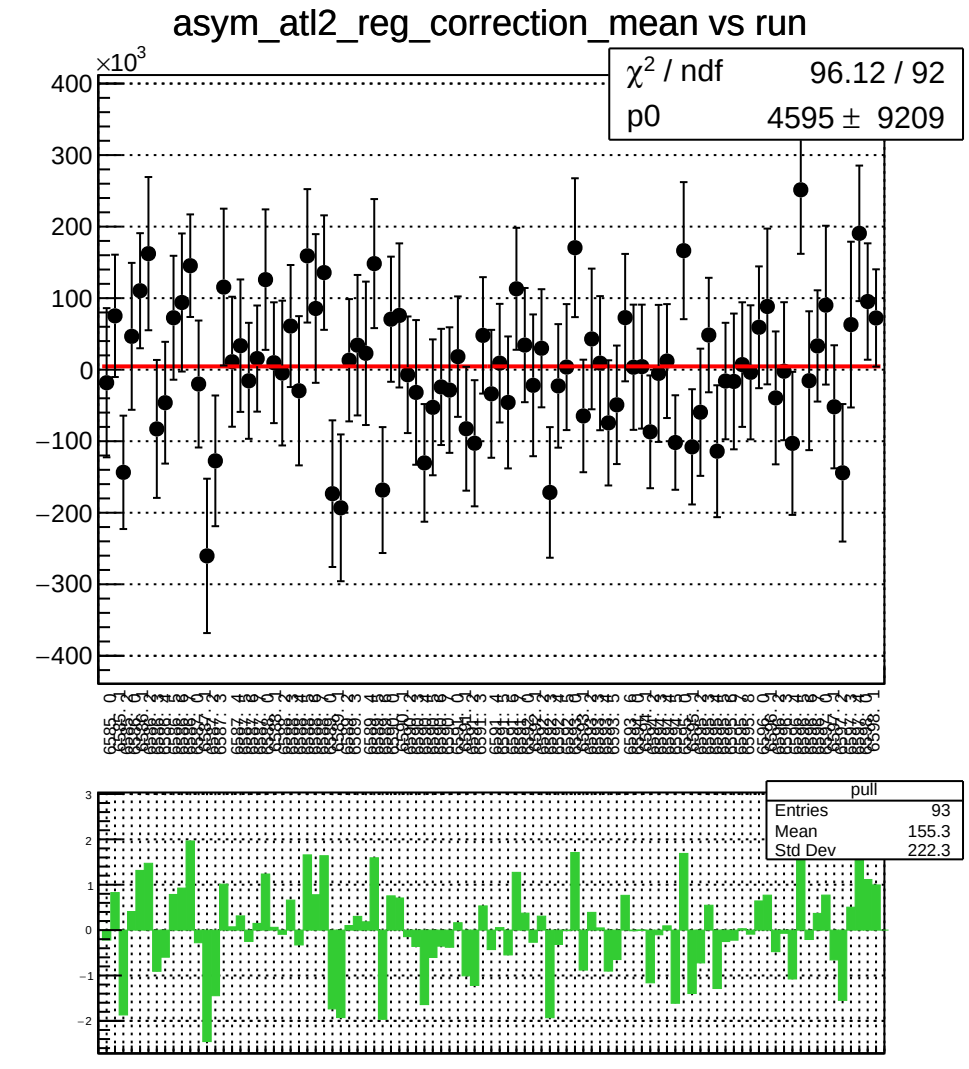

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 96.4 / 92
p0 −7.004e−15 ± 1.711e−14
pull
Entries 93
Mean 38.44
Std Dev 15.28
pull1D
Entries 93
Mean −0.03858
Std Dev 1.017

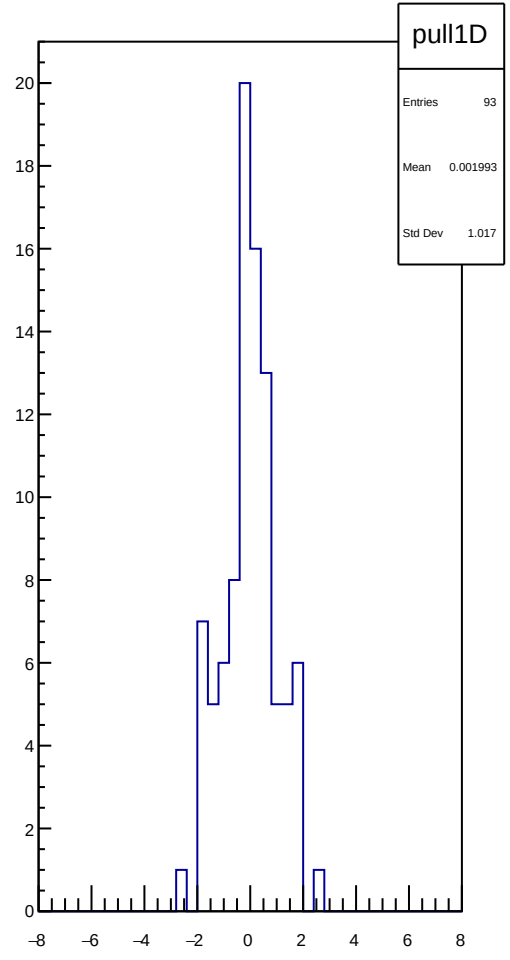

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.456e+05 / 92
p0 1.225e−11 ± 1.21e−14
0.12
0.1
0.08
0.06
0.04
0.02

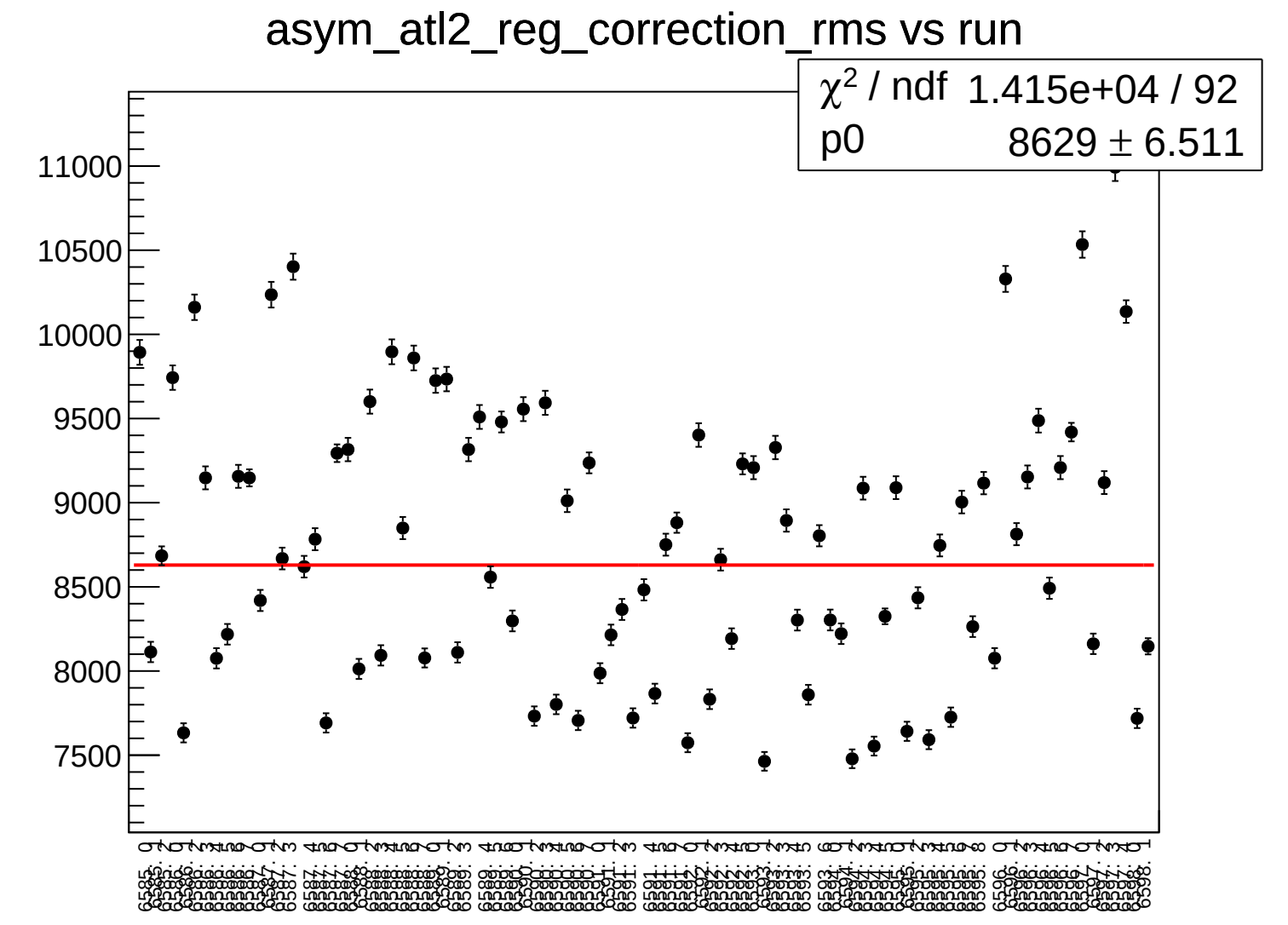

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 92.37 / 92
p0 −2618 ± 2990
100
50
0
−50
−100
pull
Entries 93
Mean 743.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

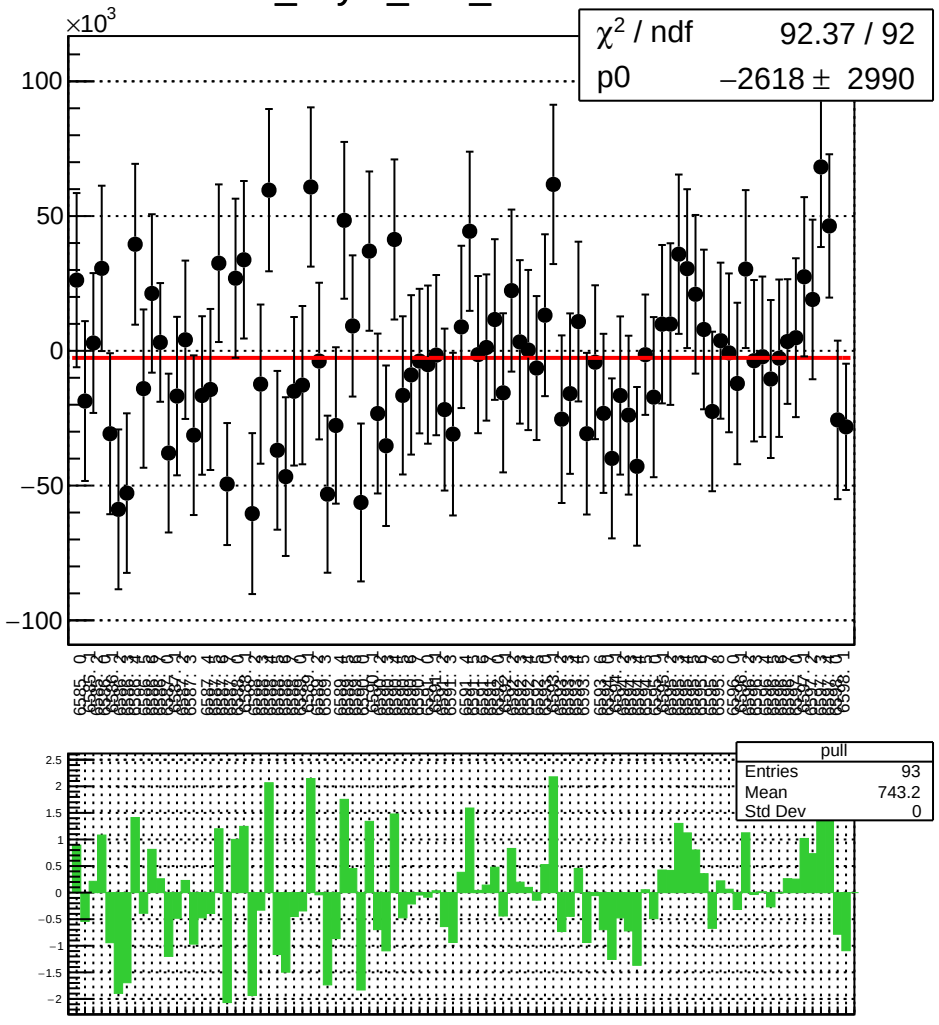

pull1D
Entries 93
Mean 0.006309
Std Dev 0.9966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

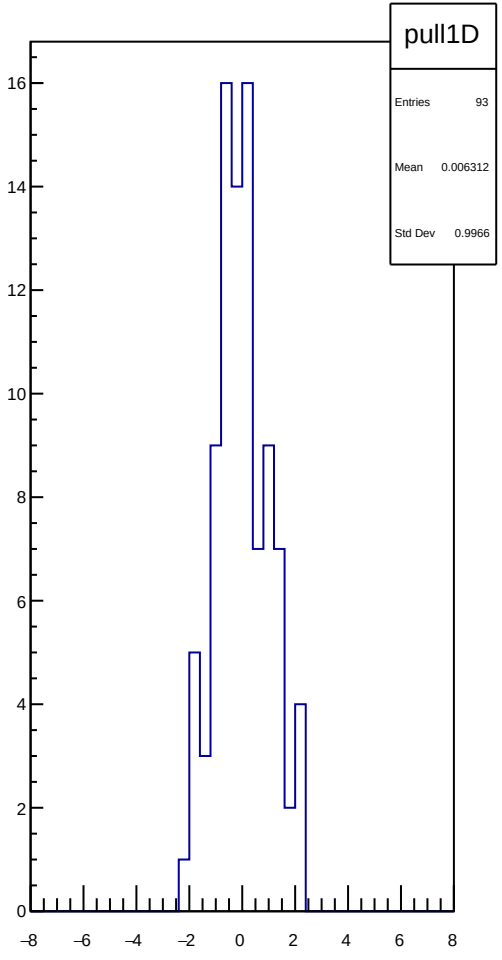

reg_asym_atl2_rms vs run
χ^2 / ndf 318.9 / 92
p0 2813 ± 2.114
3100
3050
3000
2950
2900
2850
2800
2750
2700

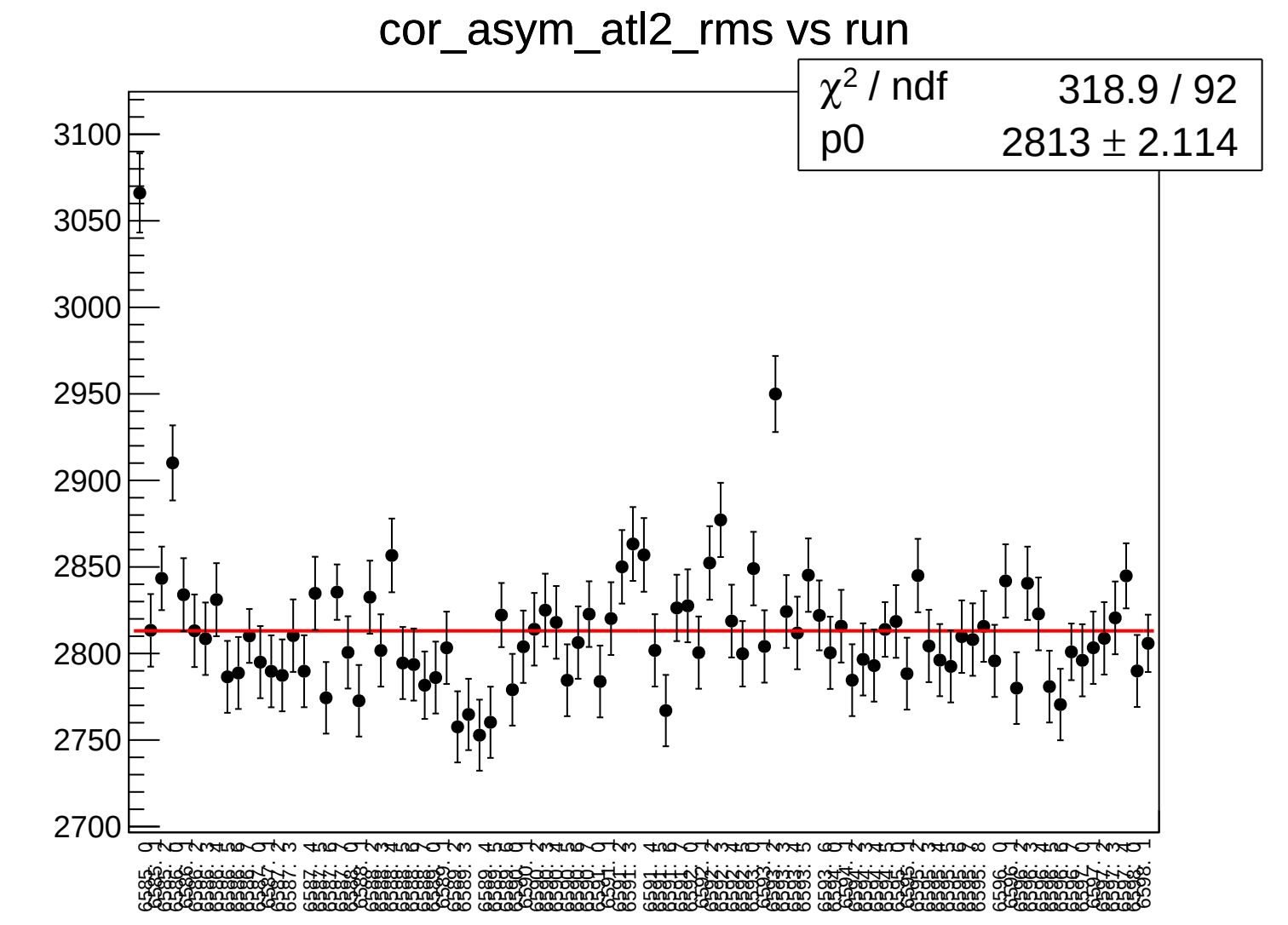

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 96.12 / 92
p0 4595 ± 9209
pull
Entries 93
Mean 155.3
Std Dev 222.3

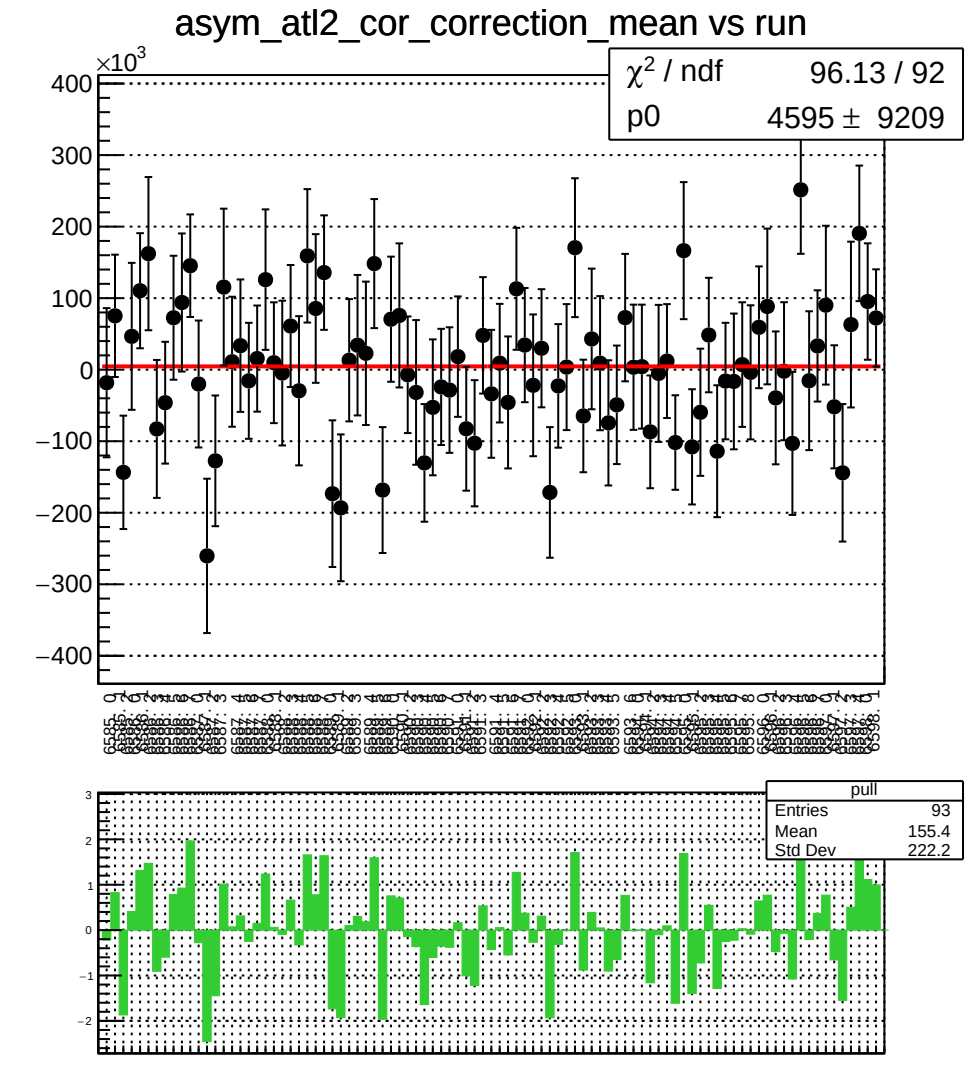

pull1D
Entries 93
Mean 0.001993
Std Dev 1.017

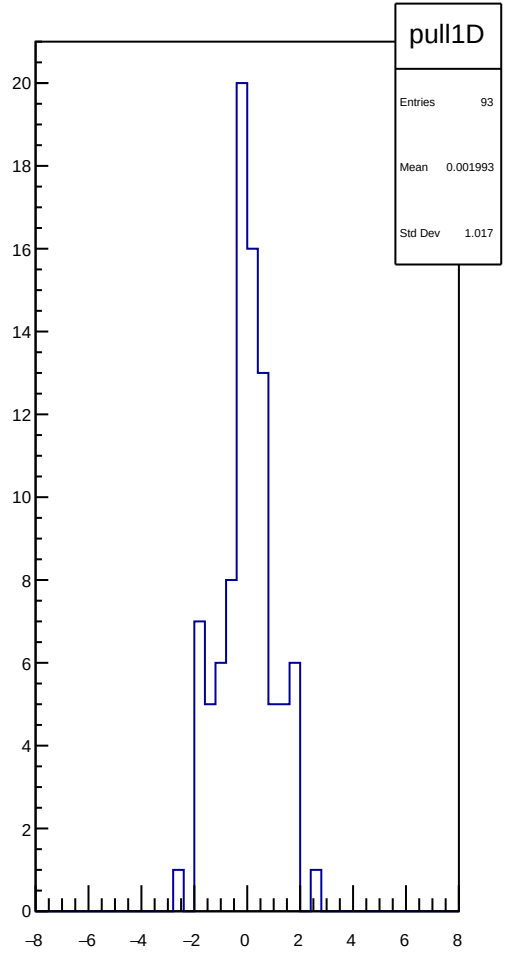

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.415e+04 / 92
p0 8629 ± 6.511
11000
10500
10000
9500
9000
8500
8000
7500

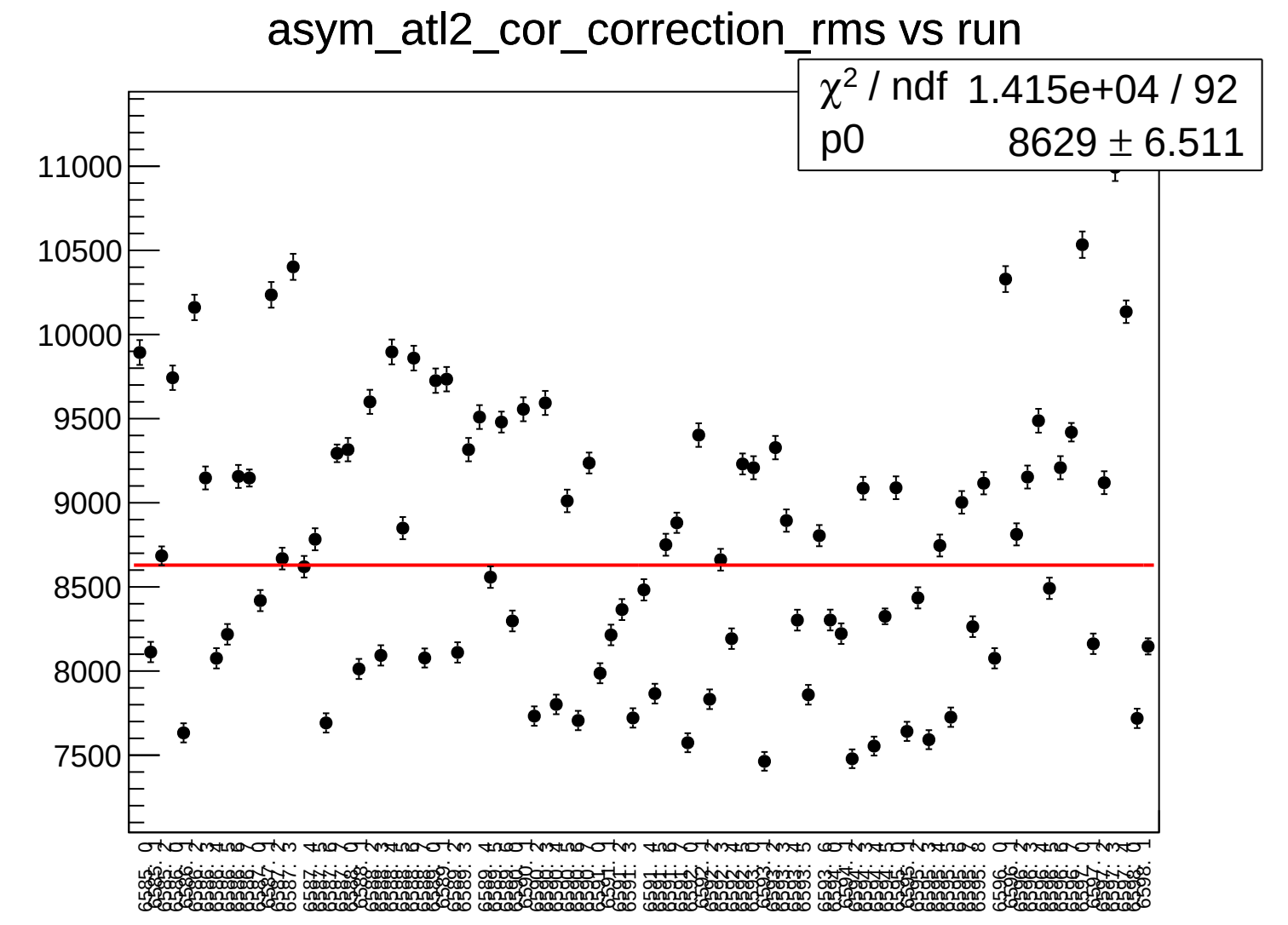

cor_asym_atl2_mean vs run
×10^3
χ² / ndf 92.37 / 92
p0 −2618 ± 2990
100
50
0
−50
−100
pull
Entries 93
Mean 743.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

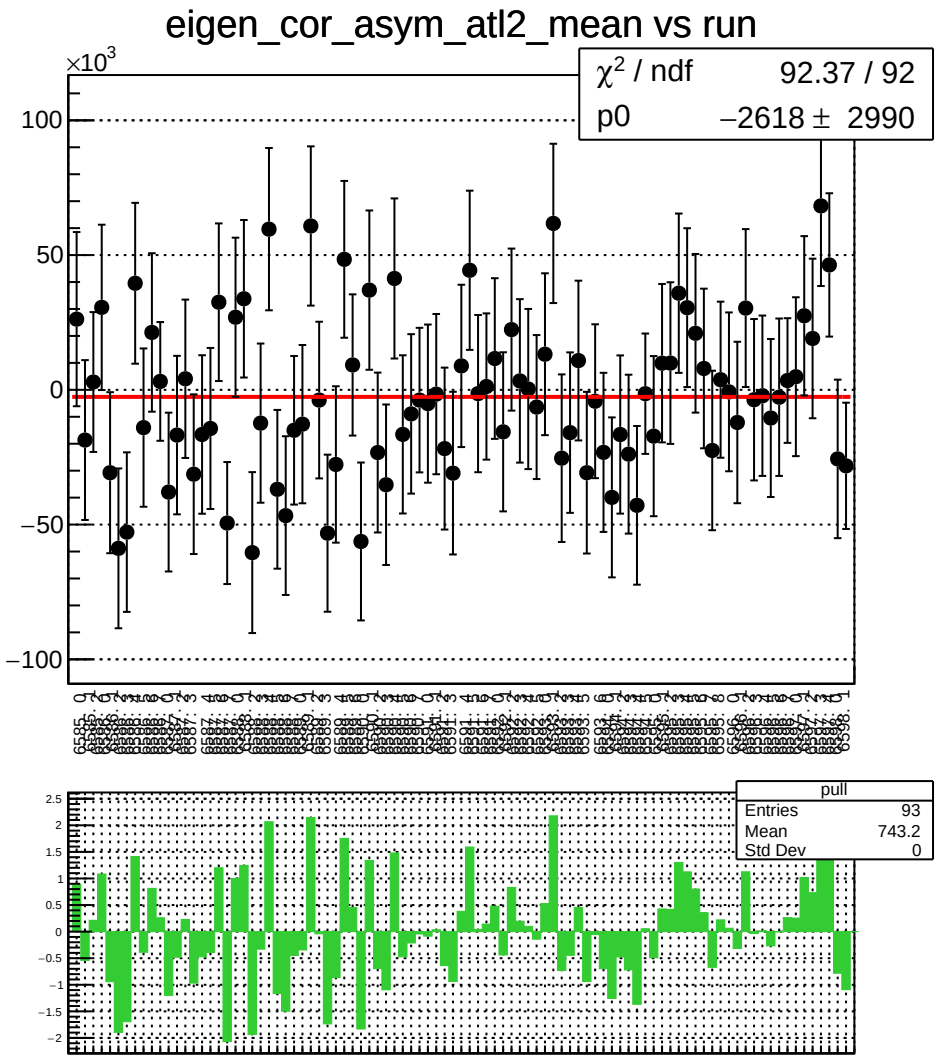

pull1D
Entries 93
Mean 0.006312
Std Dev 0.9966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

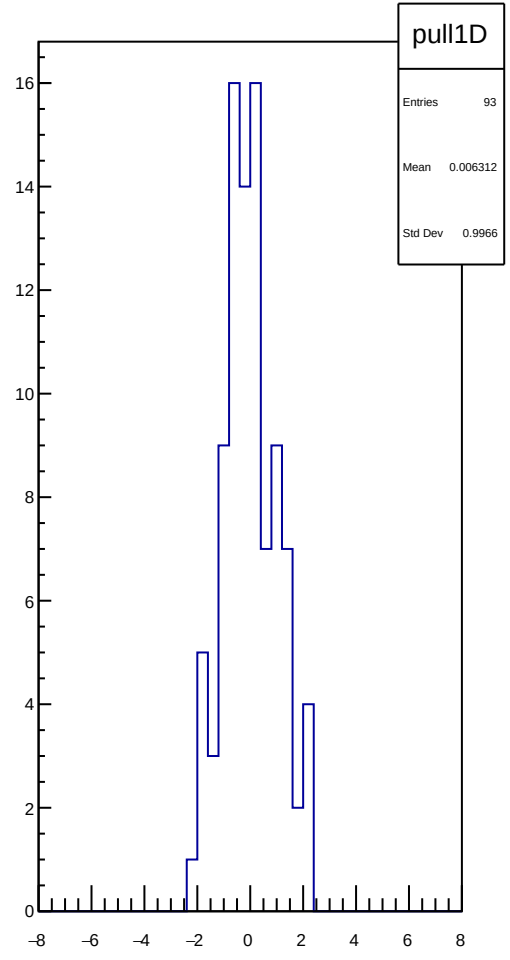

cor_asym_atl2_rms vs run
χ² / ndf 318.9 / 92
p0 2813 ± 2.114
3100
3050
3000
2950
2900
2850
2800
2750
2700

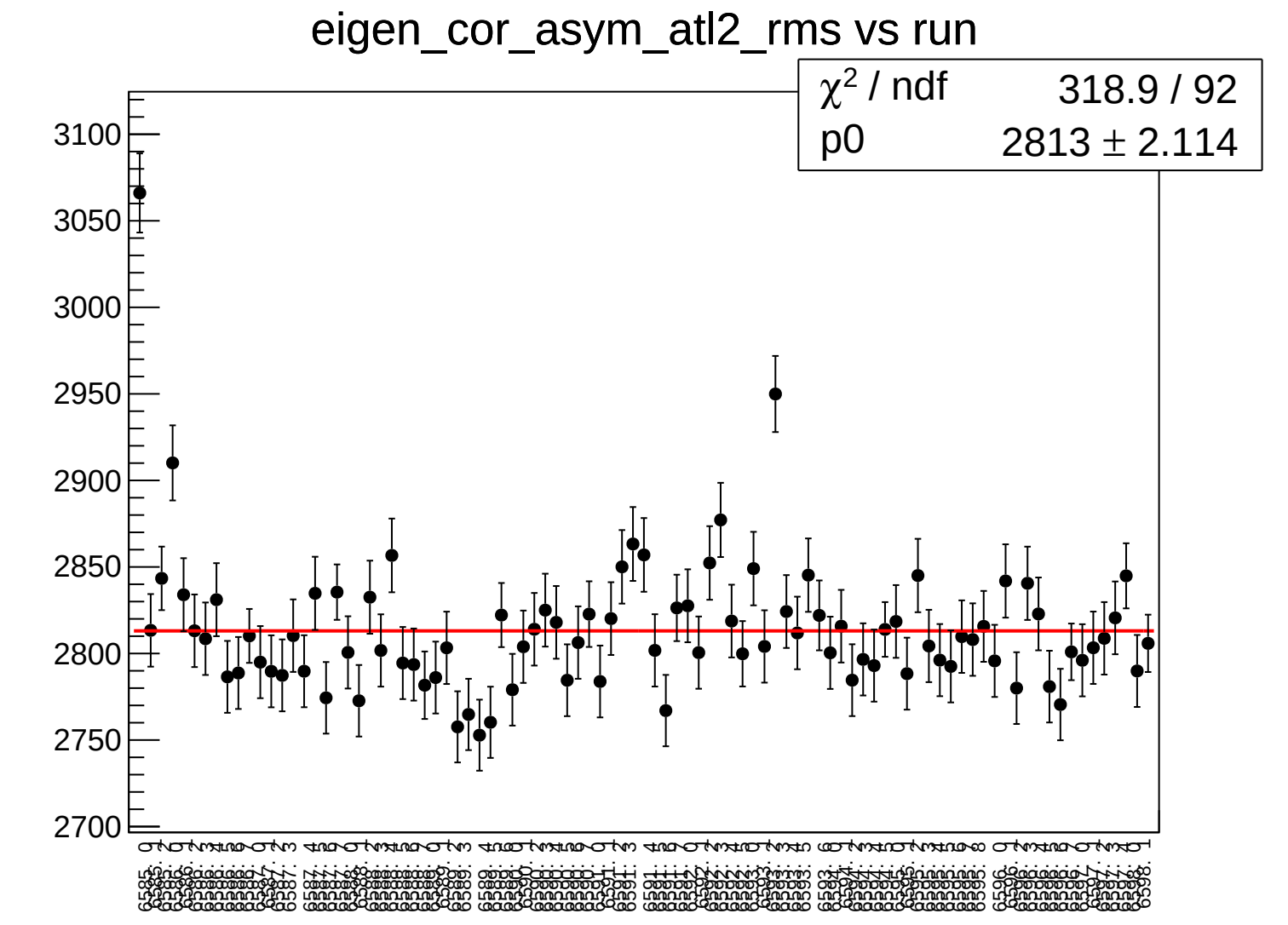

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 96.13 / 92
p0 4595 ± 9209
pull
Entries 93
Mean 155.4
Std Dev 222.2

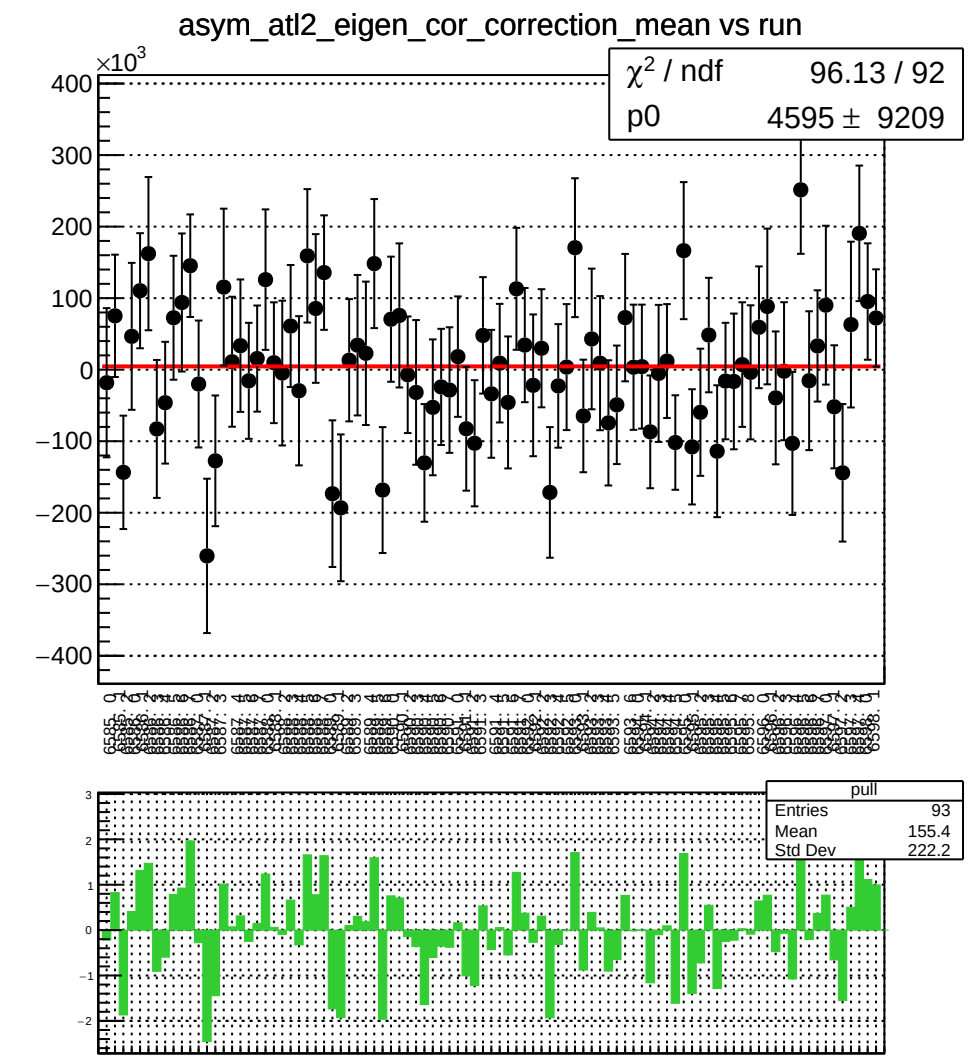

pull1D
Entries 93
Mean 0.001993
Std Dev 1.017

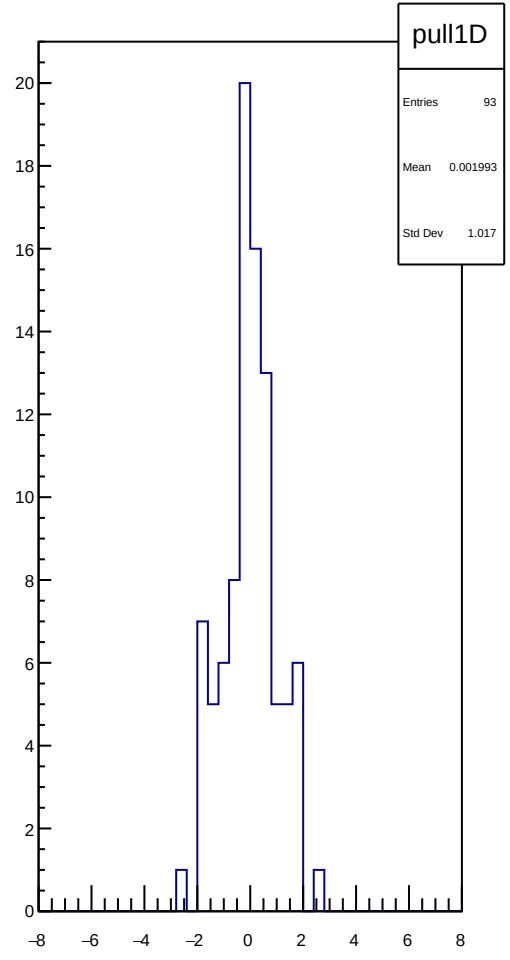

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.415e+04 / 92
p0 8629 ± 6.511
11000
10500
10000
9500
9000
8500
8000
7500

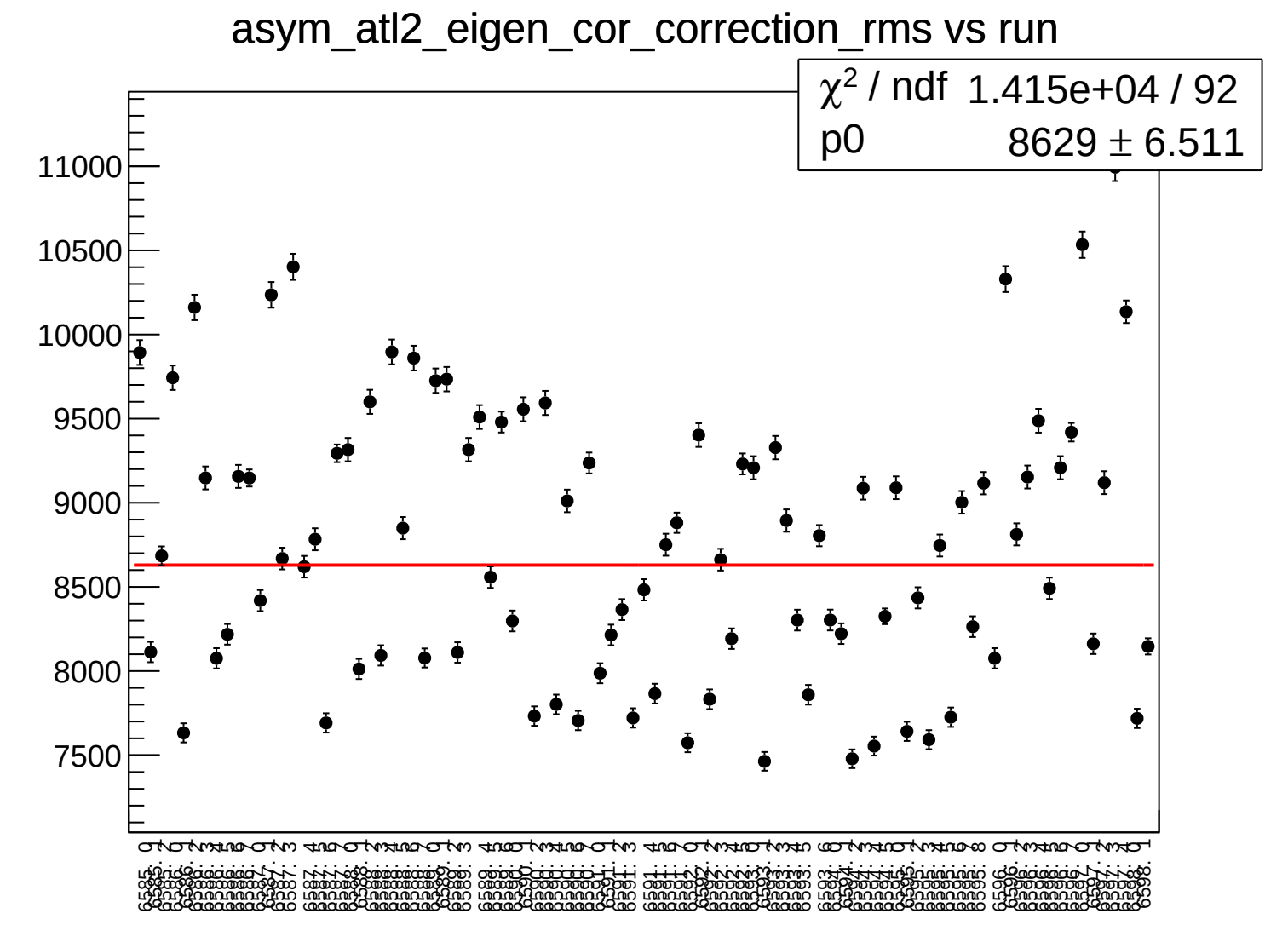

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 92.37 / 92
p0 −2618 ± 2990
100
50
0
−50
−100
pull
Entries 93
Mean 743.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

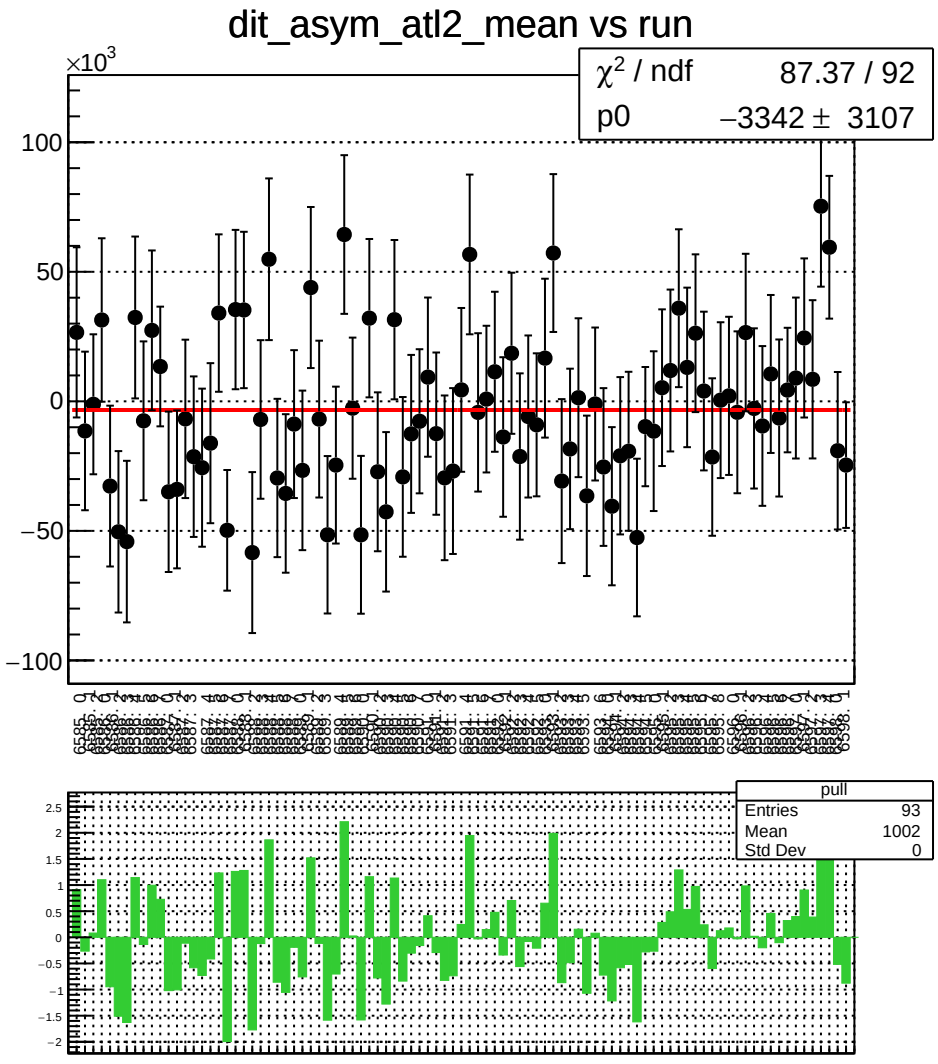

pull1D
Entries 93
Mean 0.006312
Std Dev 0.9966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

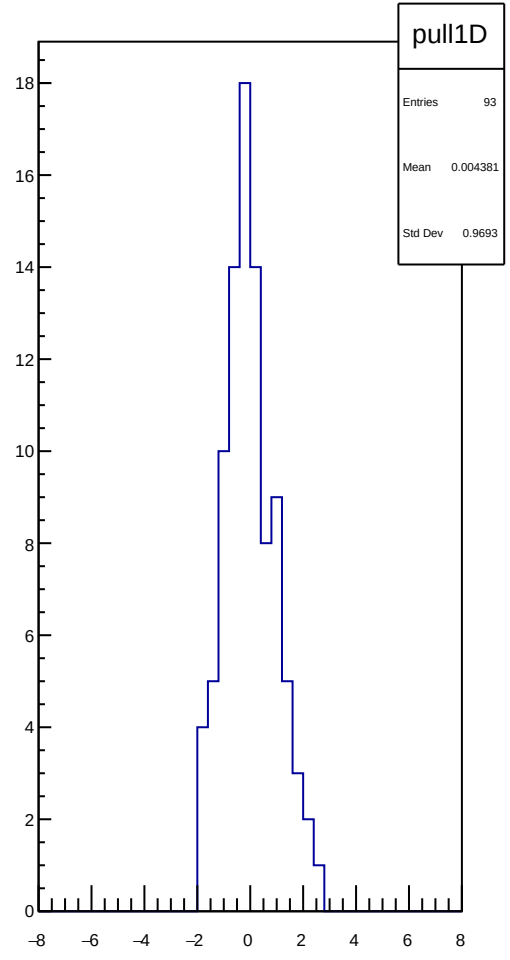

eigen_cor_asym_atl2_rms vs run
χ² / ndf 318.9 / 92
p0 2813 ± 2.114
3100
3050
3000
2950
2900
2850
2800
2750
2700

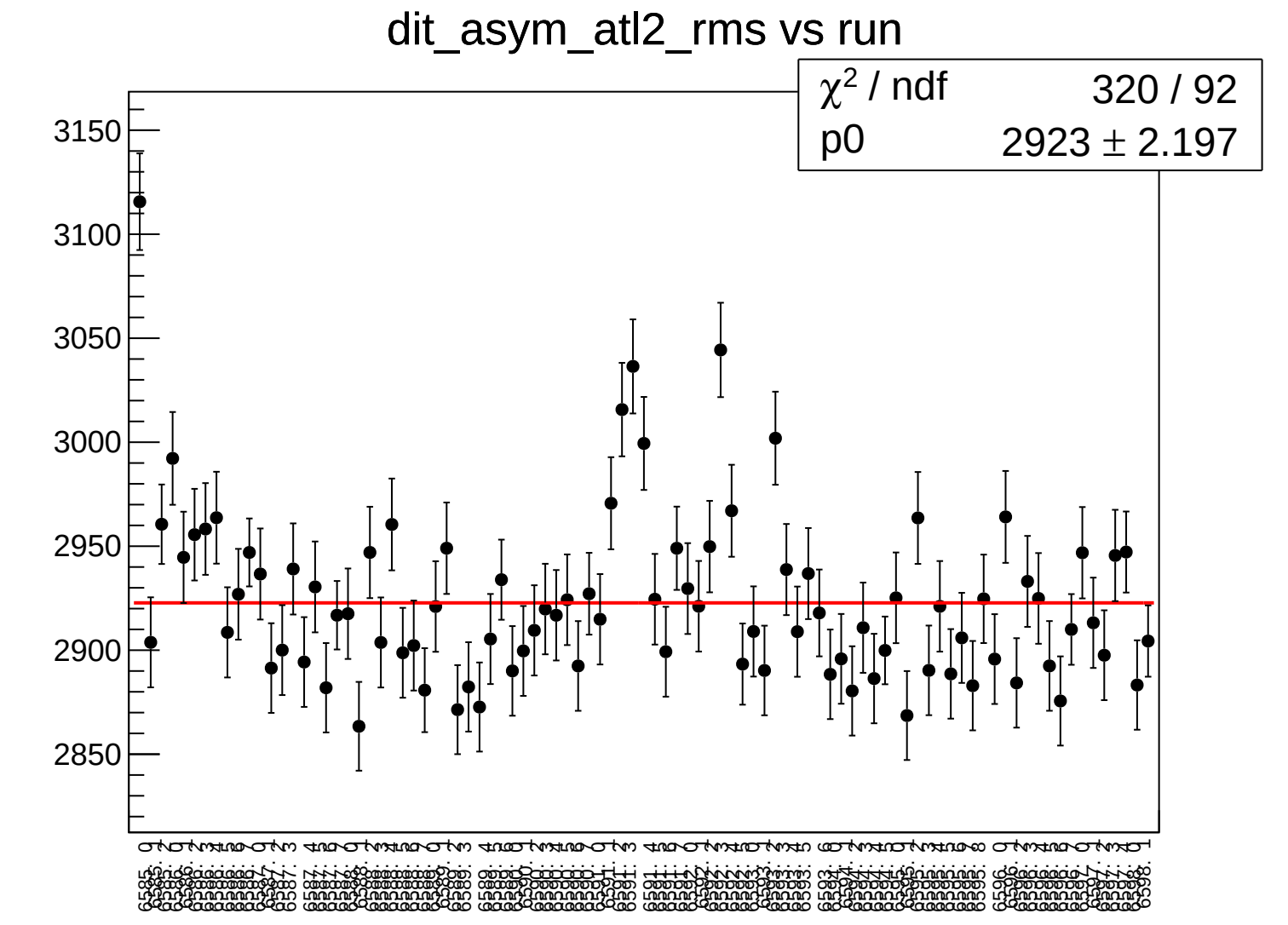

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.13 / 92
p0 4595 ± 9209
pull
Entries 93
Mean 155.4
Std Dev 222.2

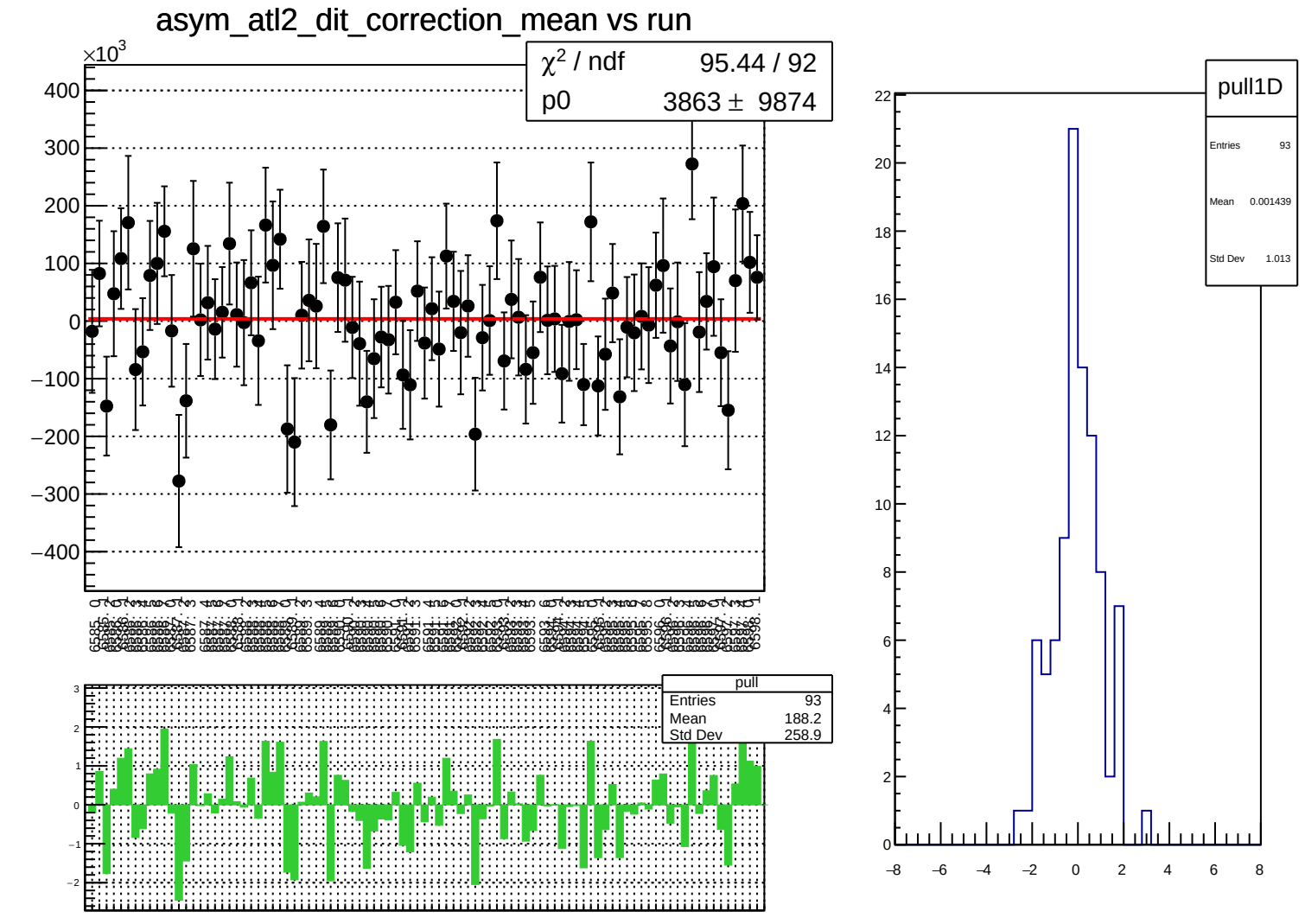

pull1D
Entries 93
Mean 0.001993
Std Dev 1.017

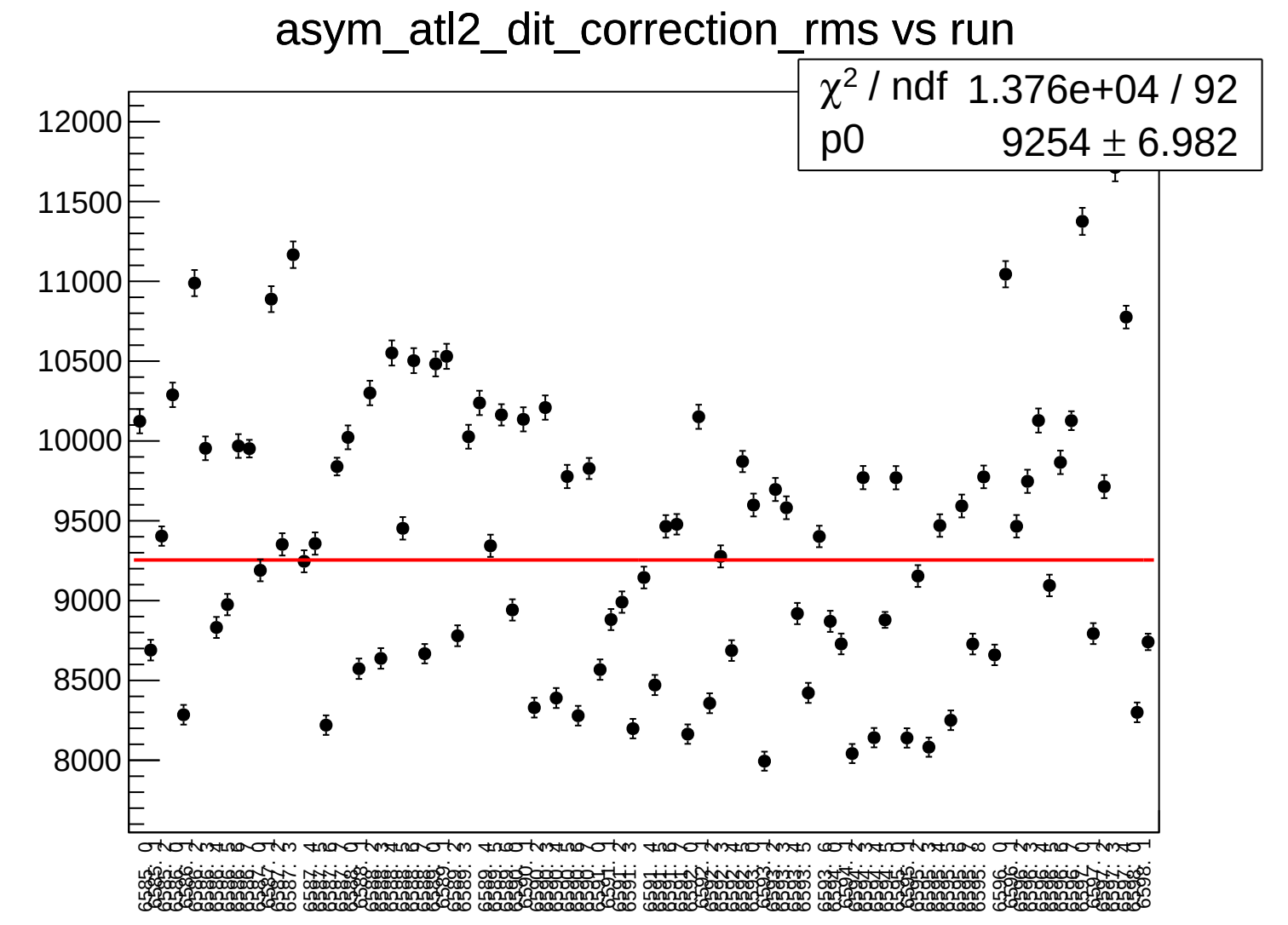

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.415e+04 / 92
p0 8629 ± 6.511
11000
10500
10000
9500
9000
8500
8000
7500

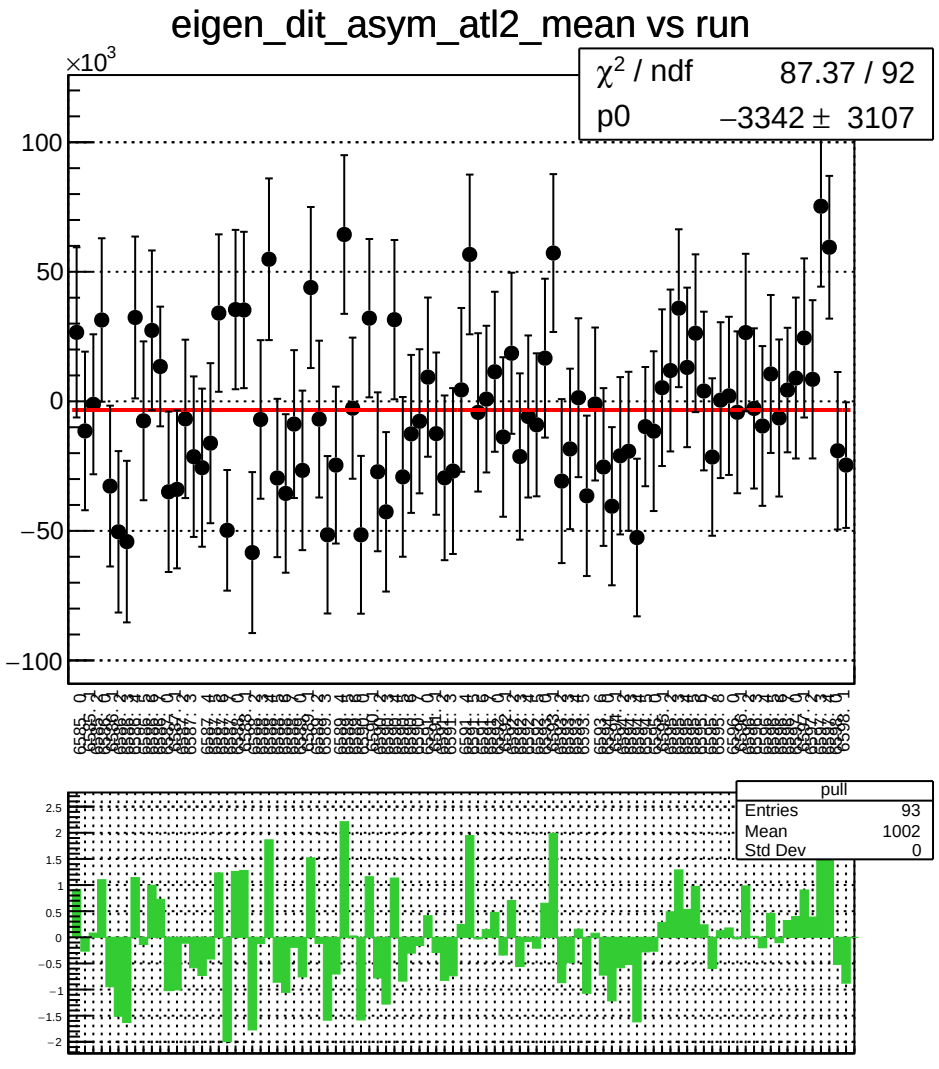

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 87.37 / 92
p0 −3342 ± 3107
100
50
0
−50
−100
pull
Entries 93
Mean 1002
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

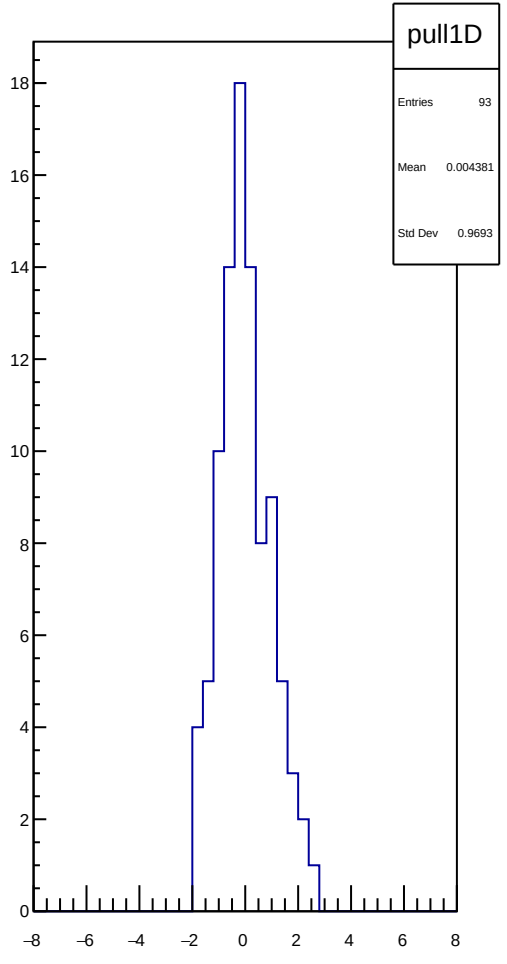

pull1D
Entries 93
Mean 0.004381
Std Dev 0.9693
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

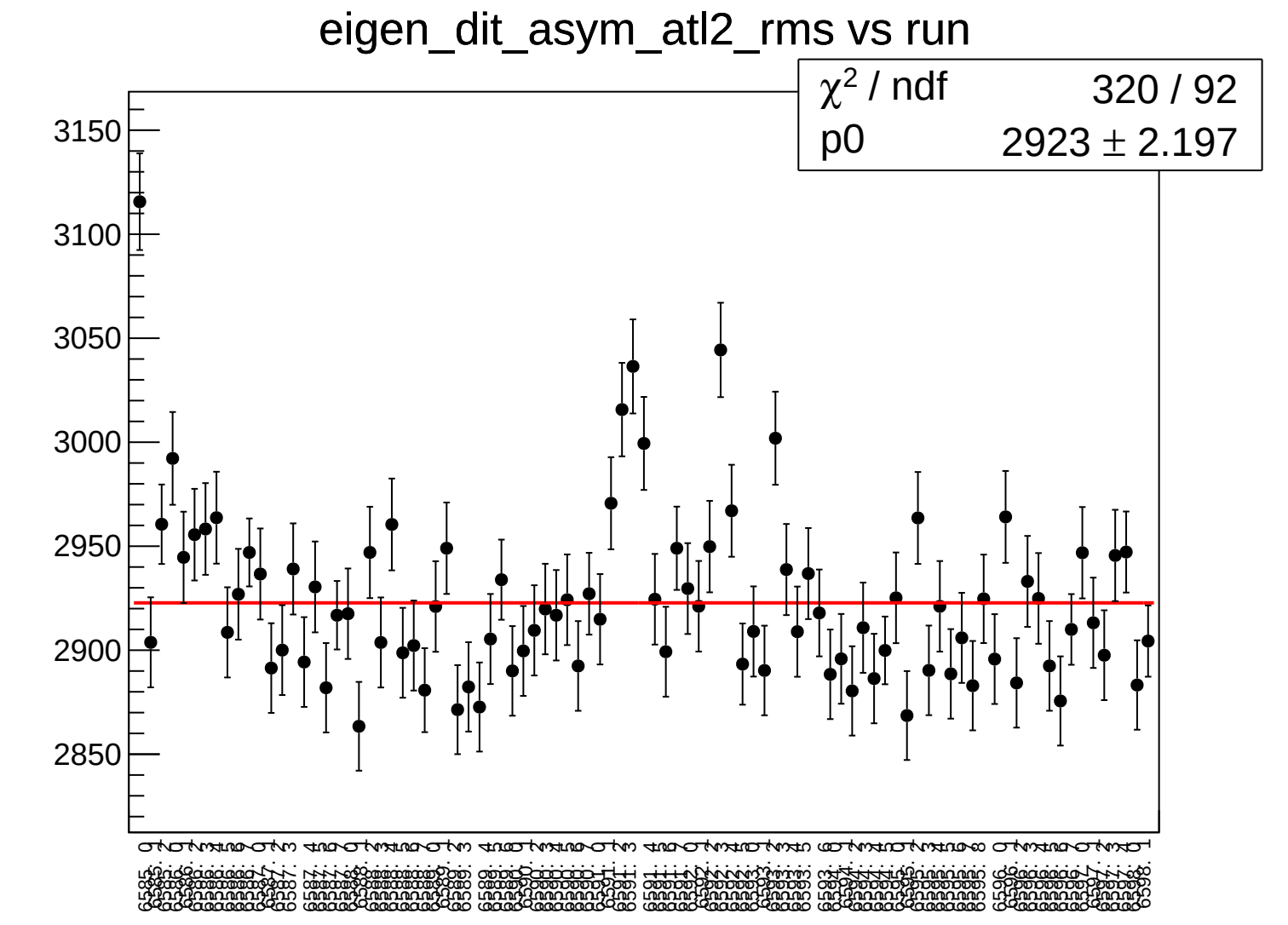

dit_asym_atl2_rms vs run
χ² / ndf 320 / 92
p0 2923 ± 2.197
3150
3100
3050
3000
2950
2900
2850

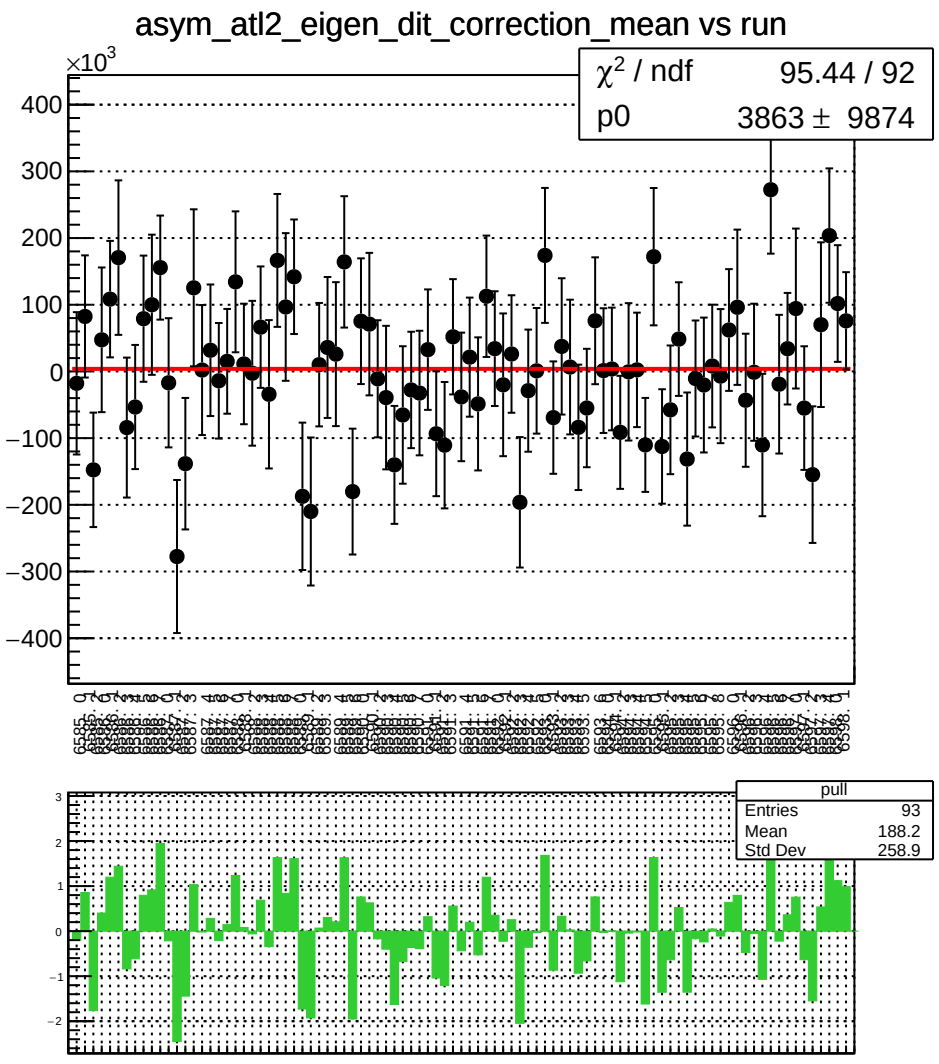

asym_atl2_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.44 / 92
p0 3863 ± 9874
pull
Entries 93
Mean 188.2
Std Dev 258.9
pull1D
Entries 93
Mean 0.001439
Std Dev 1.013

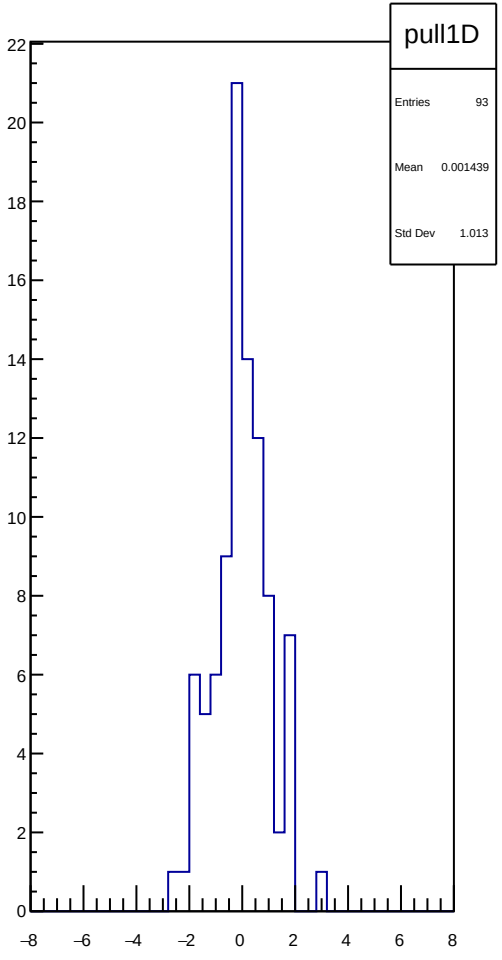

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.376e+04 / 92
p0 9254 ± 6.982
12000
11500
11000
10500
10000
9500
9000
8500
8000

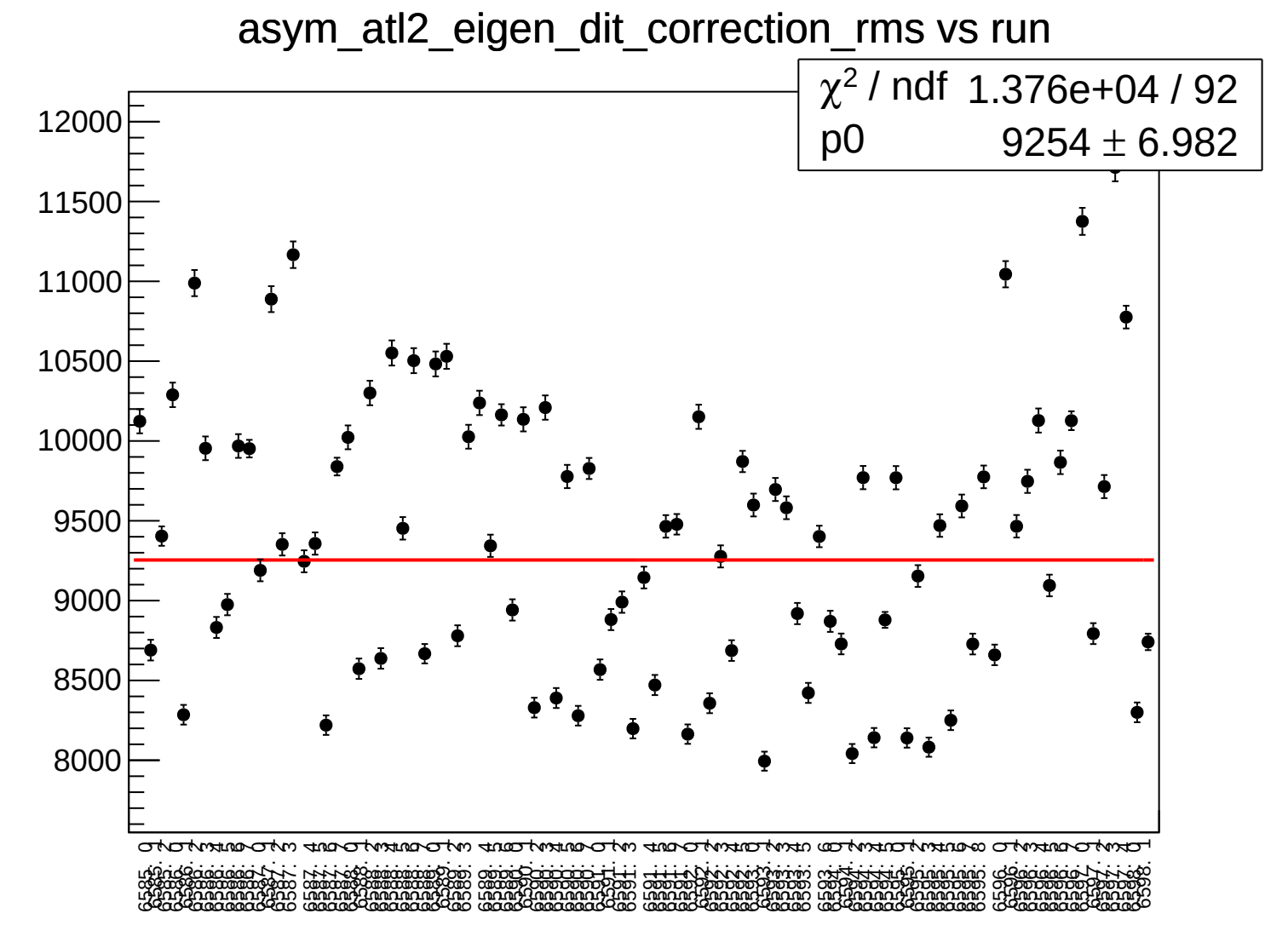

eigen_dit_asym_atl2_mean vs run
χ² / ndf 87.37 / 92
p0 −3342 ± 3107
×10³
100
50
0
−50
−100
pull
Entries 93
Mean 1002
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

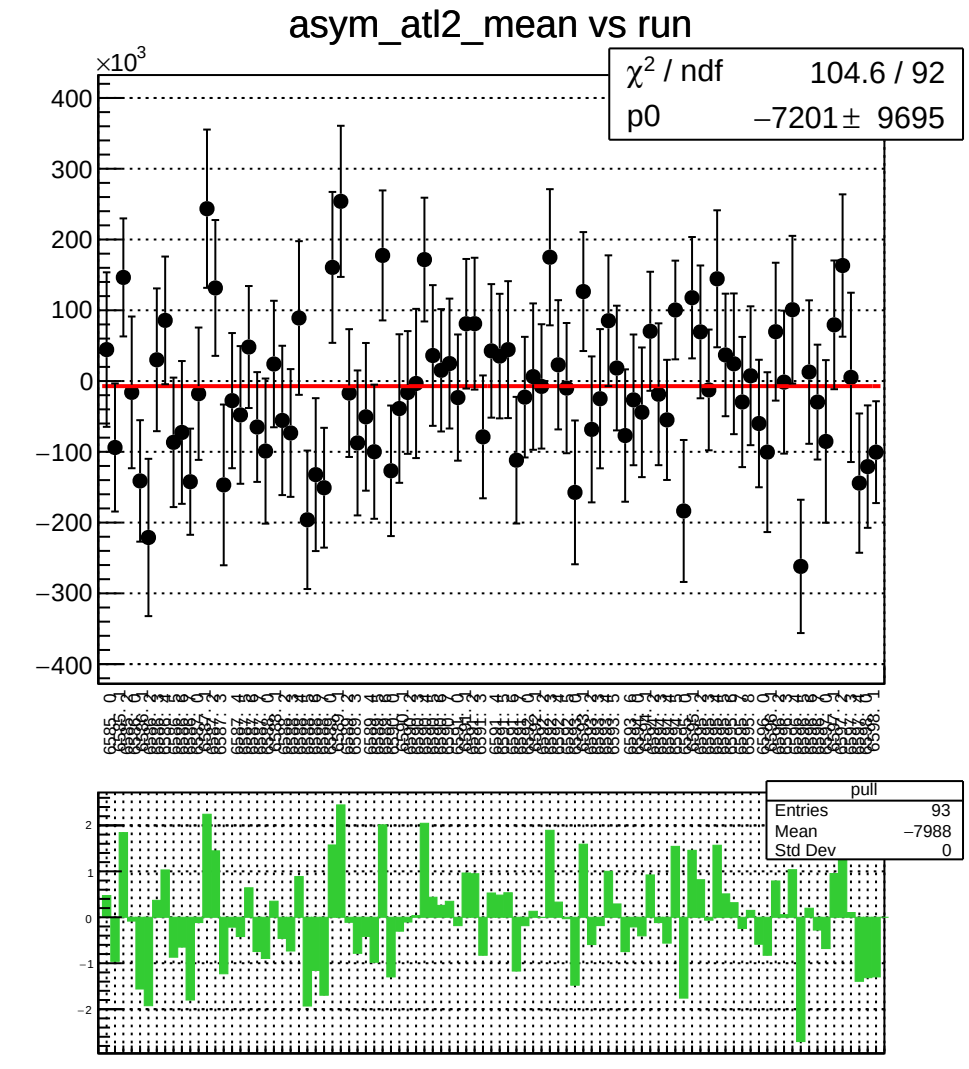

pull1D
Entries 93
Mean 0.004381
Std Dev 0.9693
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

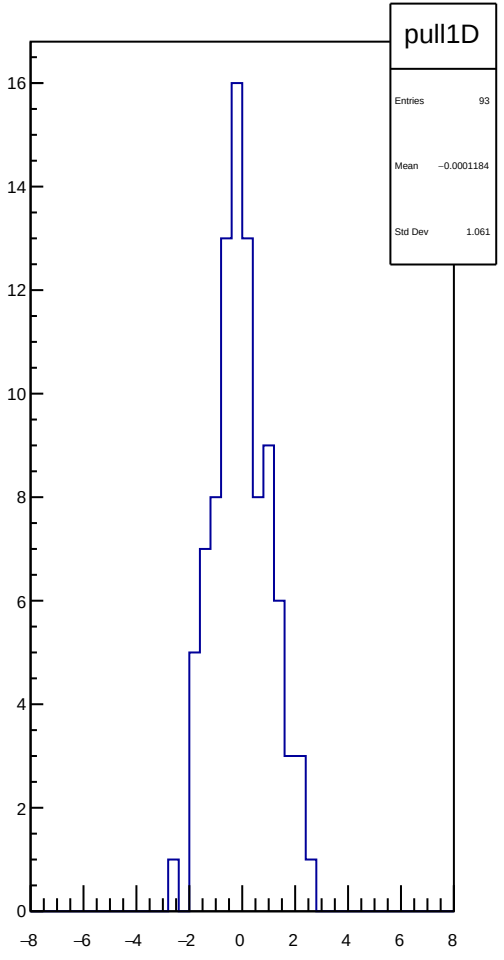

eigen_dit_asym_atl2_rms vs run
χ² / ndf 320 / 92
p0 2923 ± 2.197
3150
3100
3050
3000
2950
2900
2850

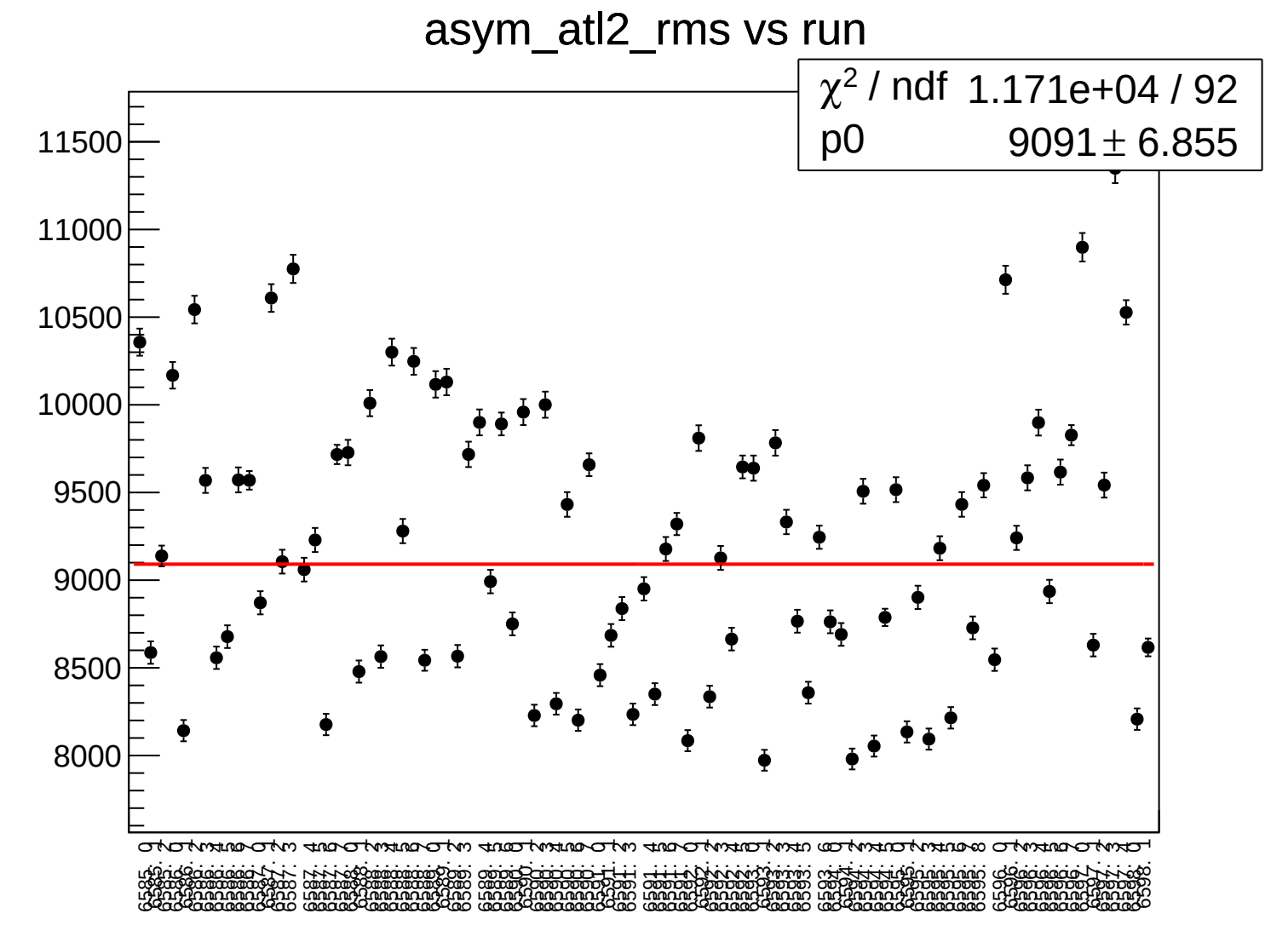

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.44 / 92
p0 3863 ± 9874
pull
Entries 93
Mean 188.2
Std Dev 258.9

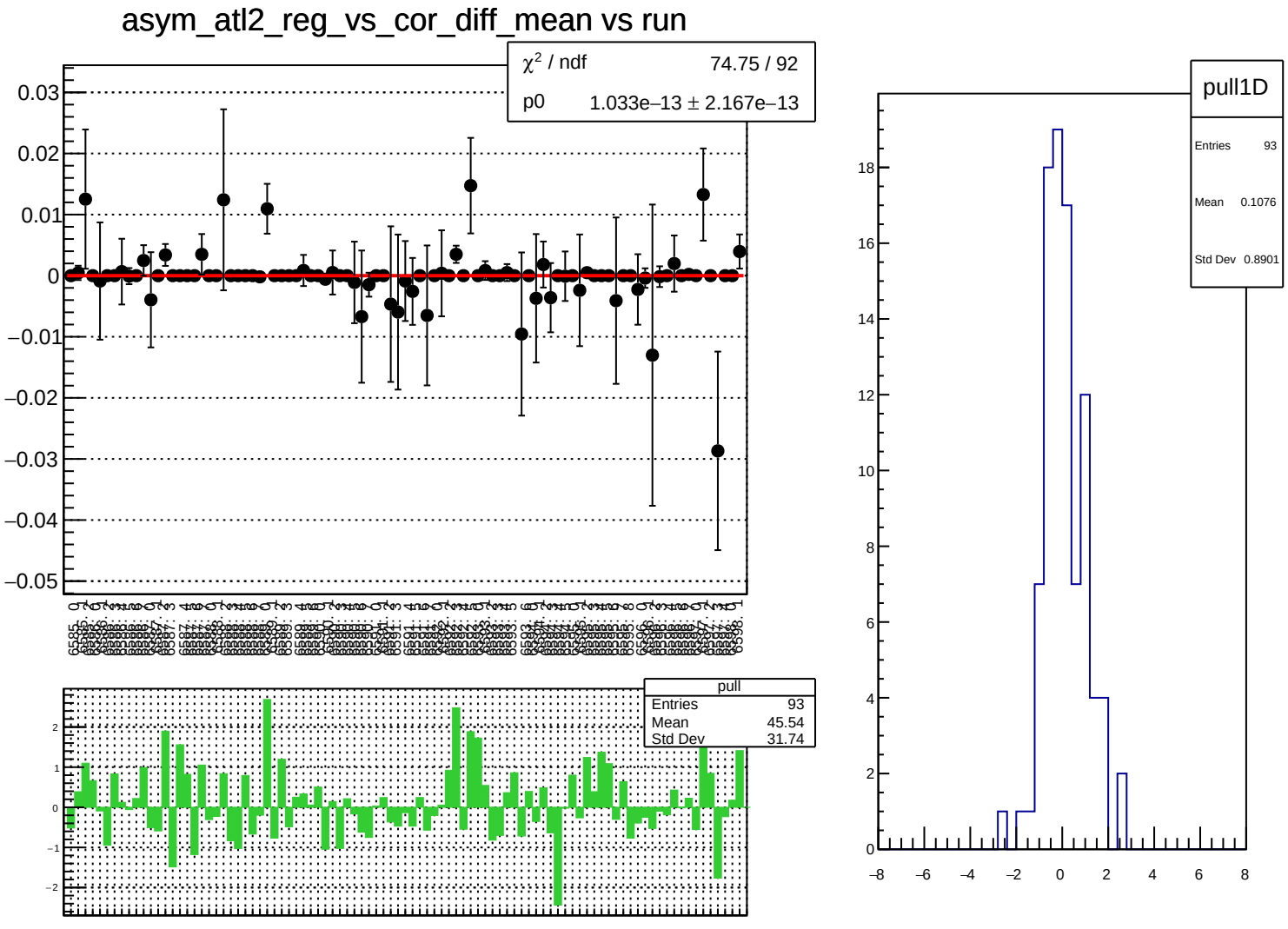

pull1D
Entries 93
Mean 0.001439
Std Dev 1.013

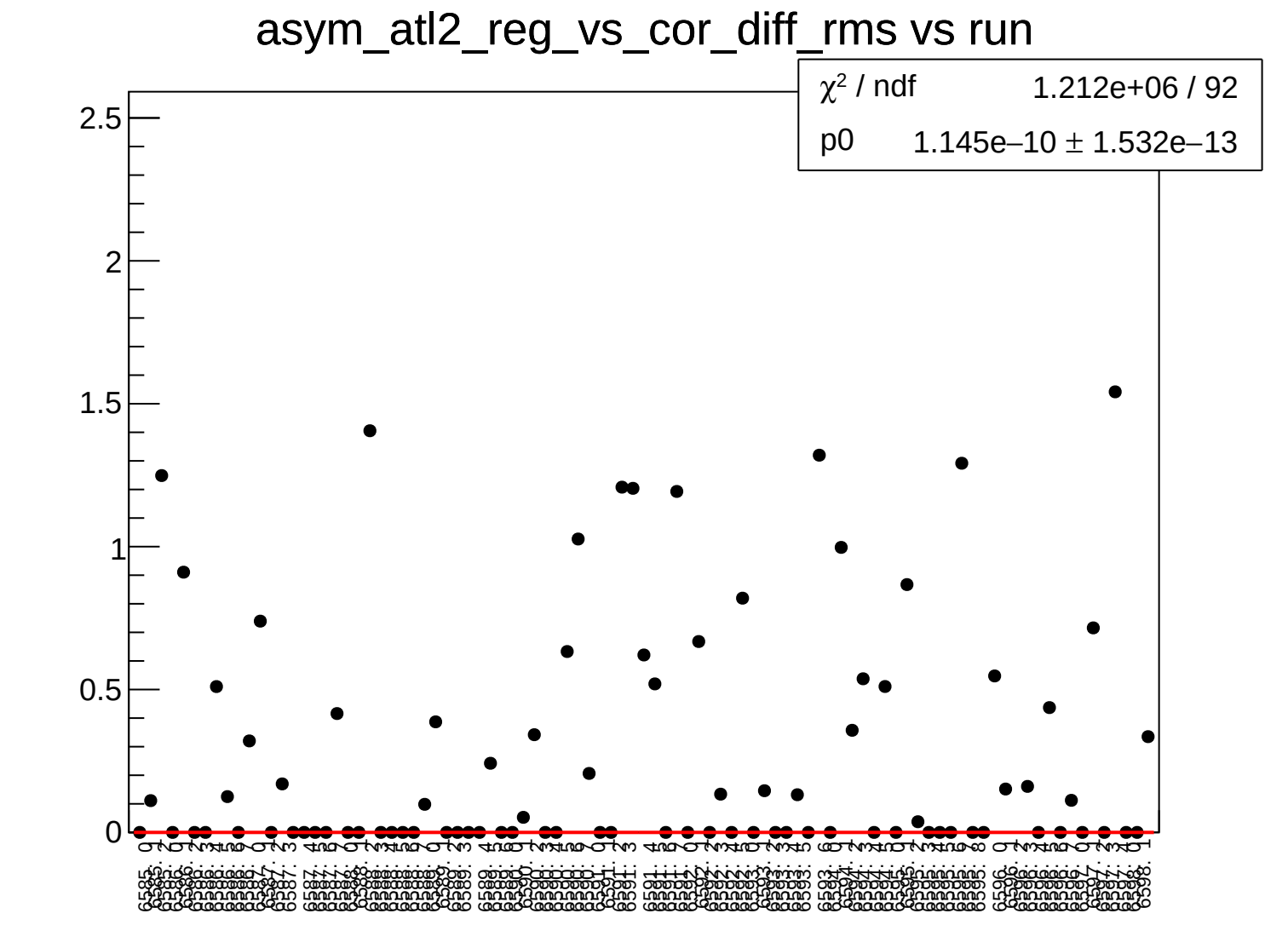

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.376e+04 / 92
p0 9254 ± 6.982
12000
11500
11000
10500
10000
9500
9000
8500
8000

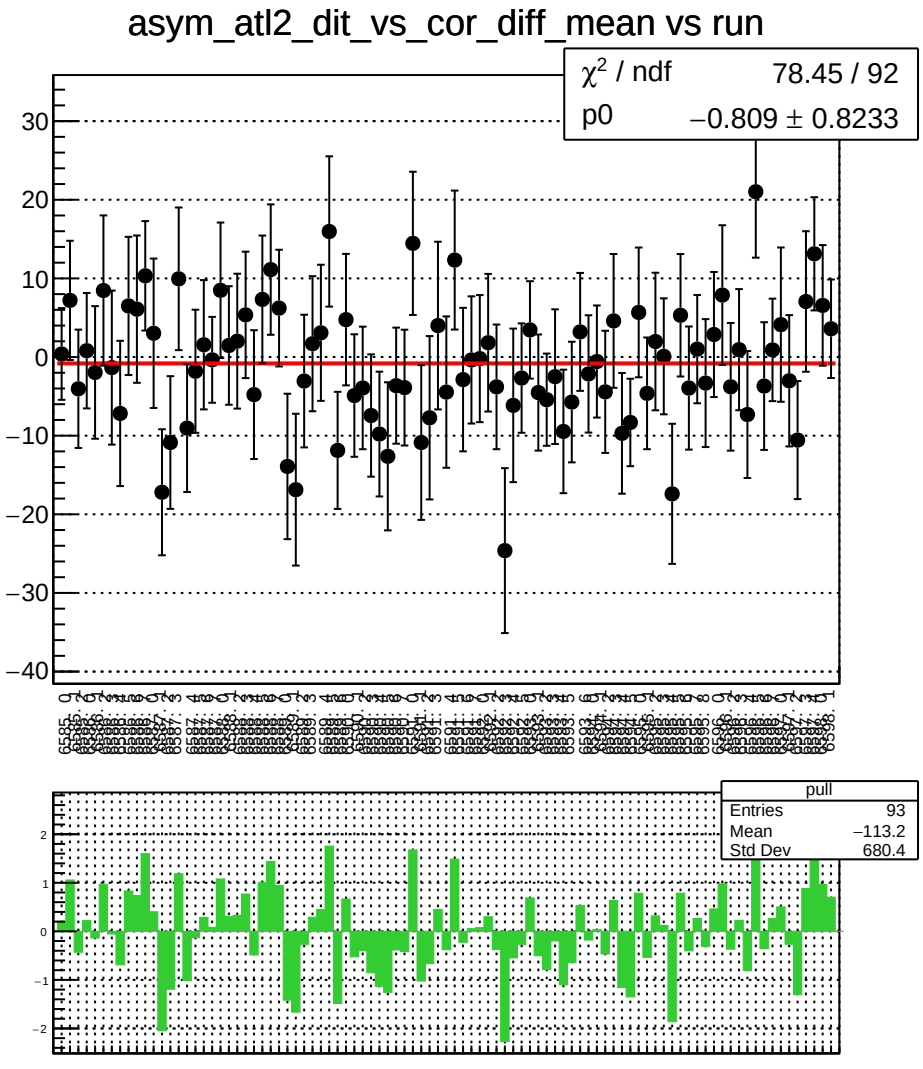

asym_atl2_mean vs run
×10^3
χ^2 / ndf 104.6 / 92
p0 −7201 ± 9695
pull
Entries 93
Mean −7988
Std Dev 0

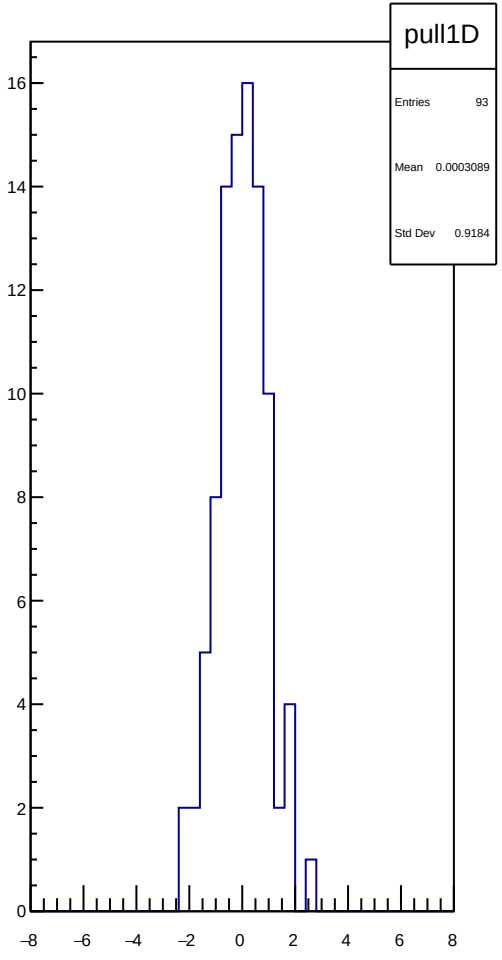

pull1D
Entries 93
Mean −0.0001184
Std Dev 1.061

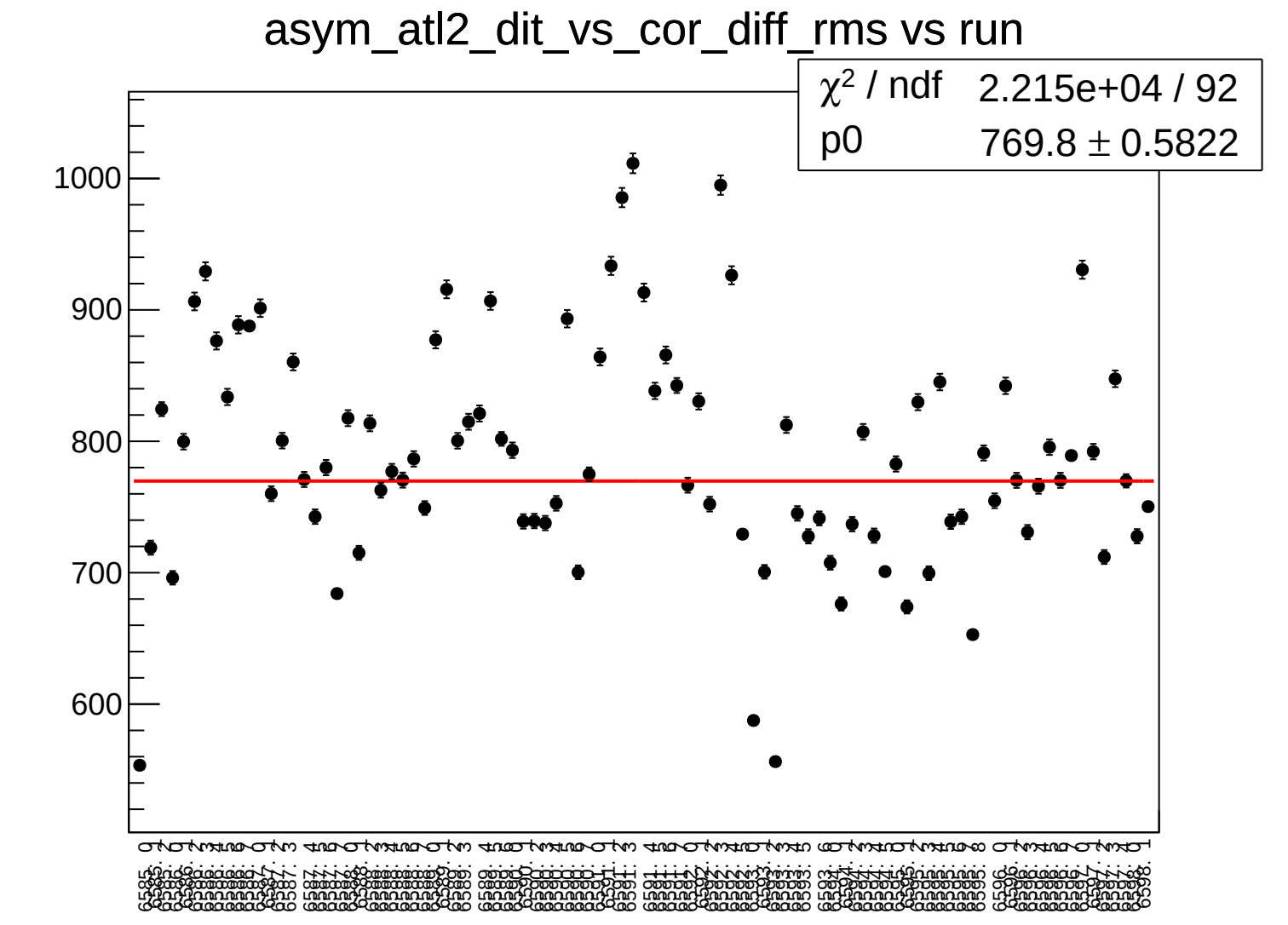

asym_atl2_rms vs run
χ^2 / ndf 1.171e+04 / 92
p0 9091 ± 6.855
11500
11000
10500
10000
9500
9000
8500
8000

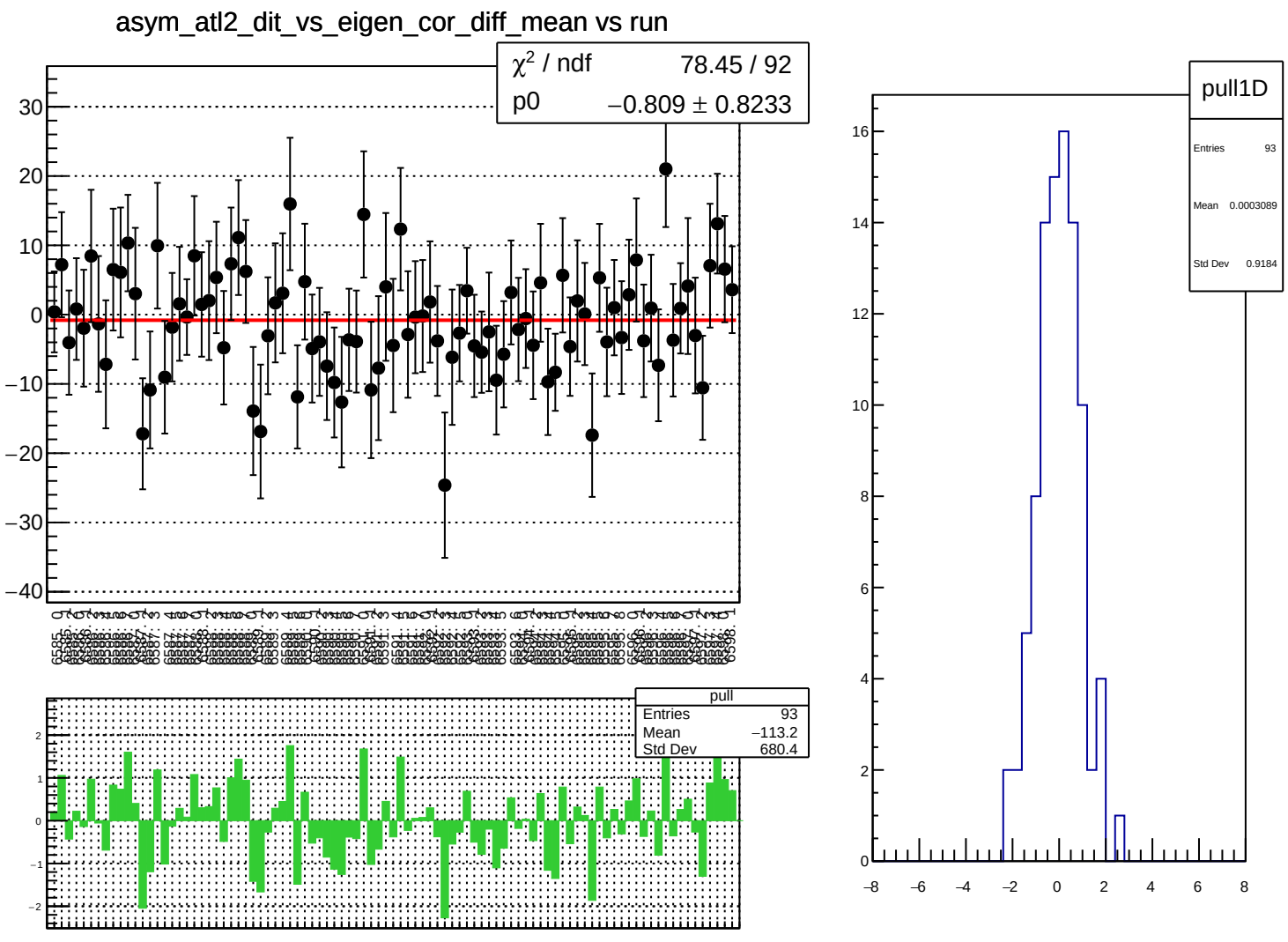

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 74.75 / 92
p0 1.033e−13 ± 2.167e−13
pull
Entries 93
Mean 45.54
Std Dev 31.74
pull1D
Entries 93
Mean 0.1076
Std Dev 0.8901

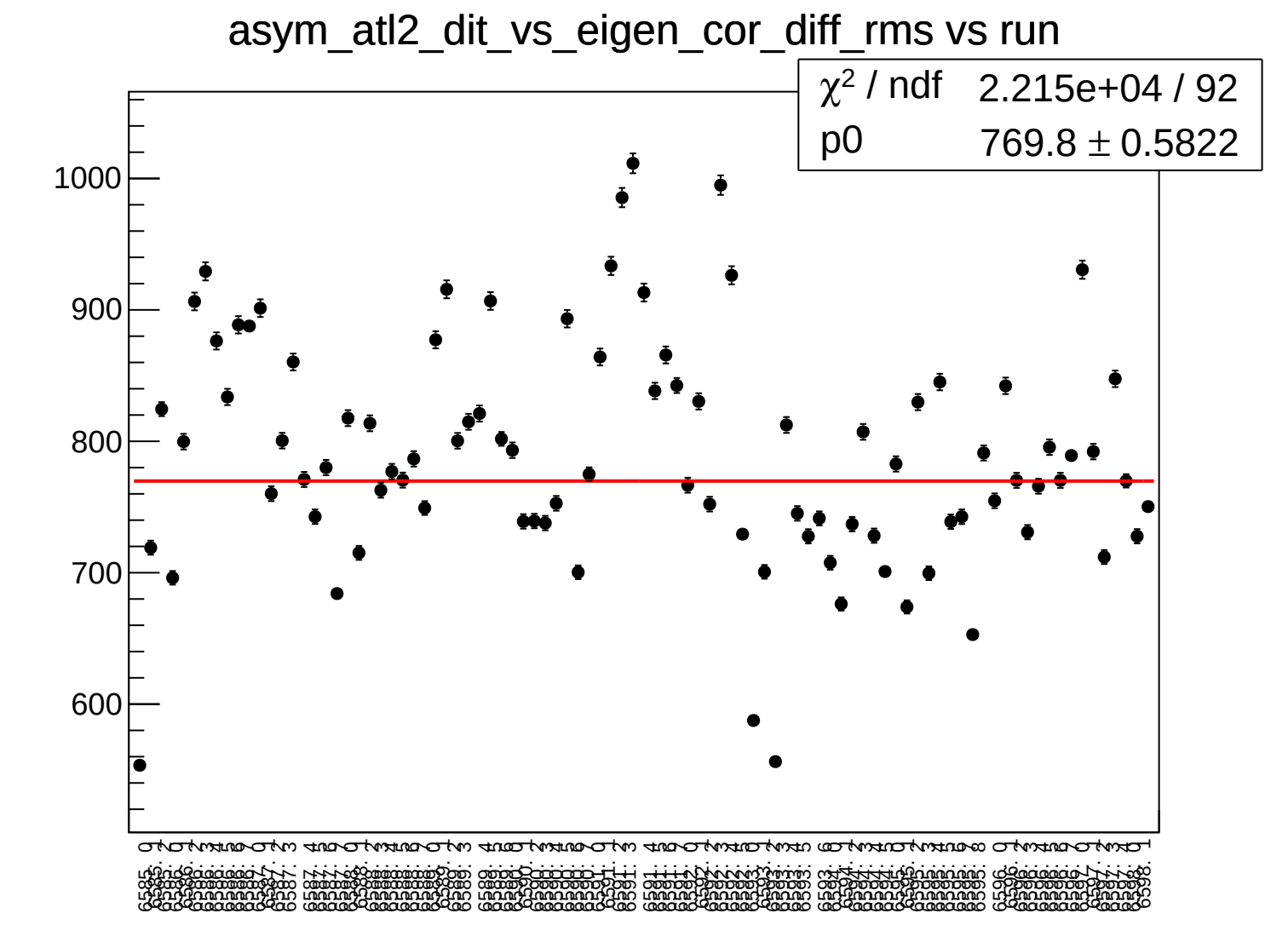

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.212e+06 / 92
p0 1.145e−10 ± 1.532e−13
2.5
2
1.5
1
0.5
0

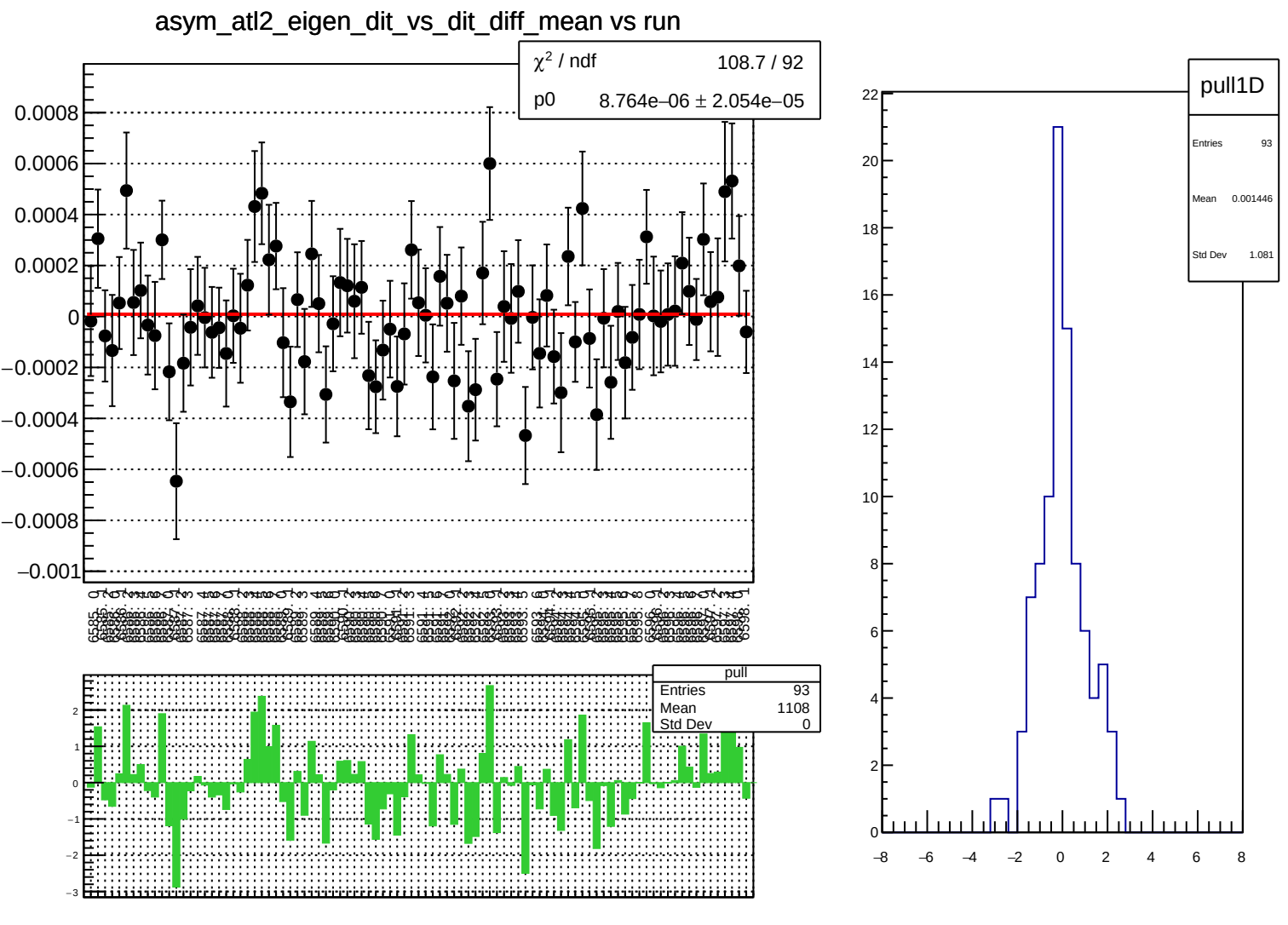

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 78.45 / 92
p0 −0.809 ± 0.8233
pull
Entries 93
Mean −113.2
Std Dev 680.4

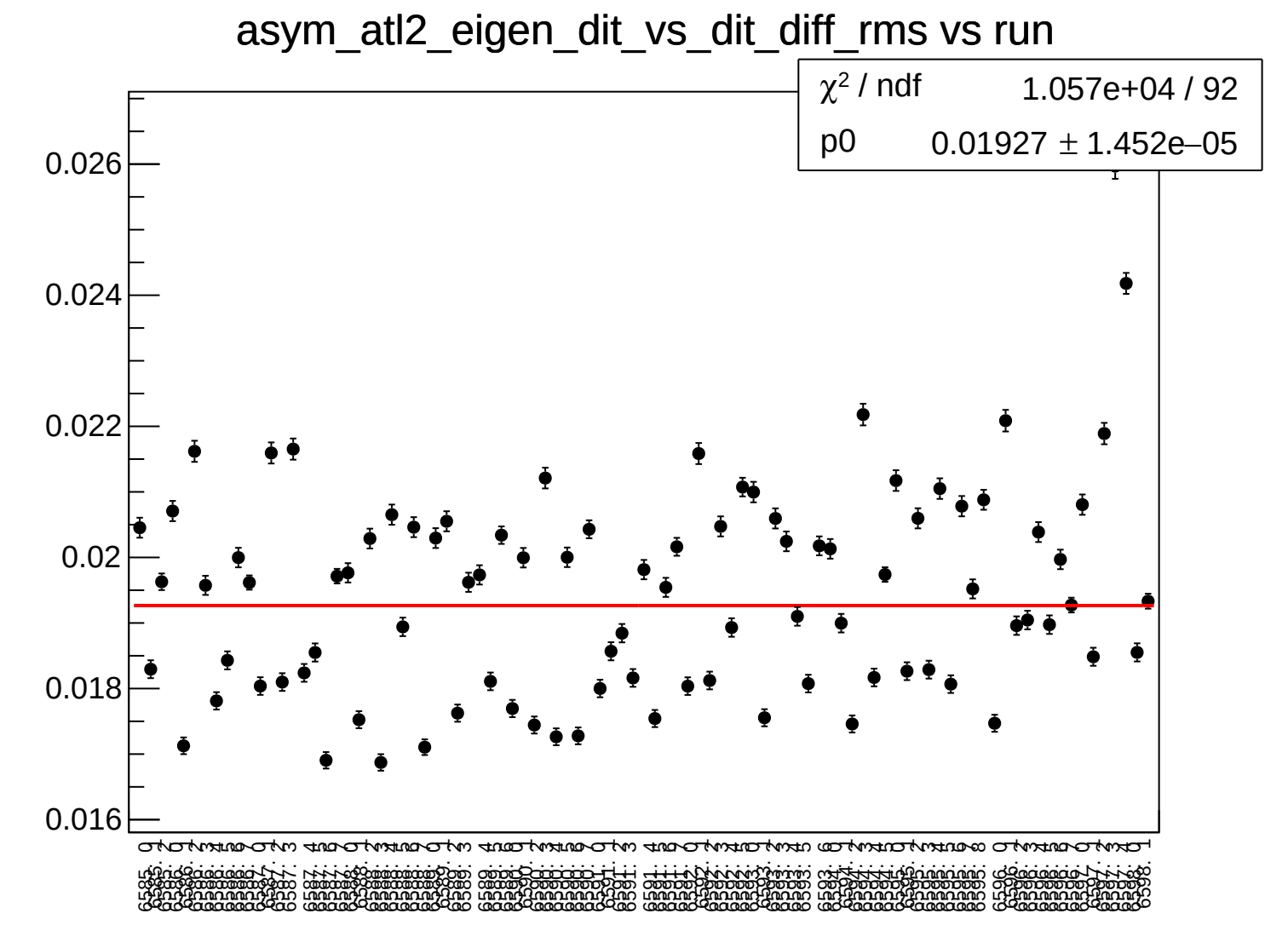

pull1D
Entries 93
Mean 0.0003089
Std Dev 0.9184

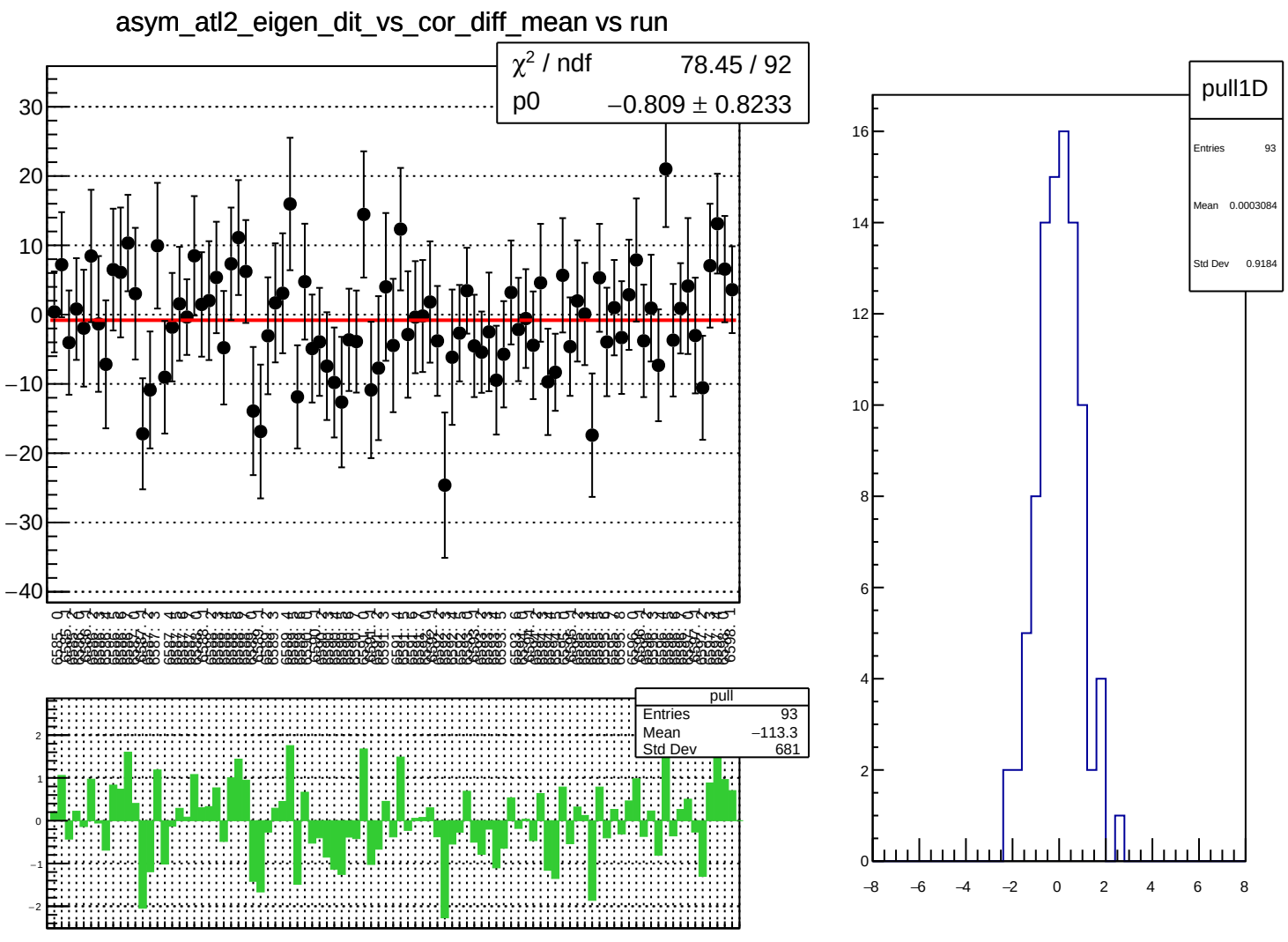

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 92
p0 769.8 ± 0.5822
1000
900
800
700
600

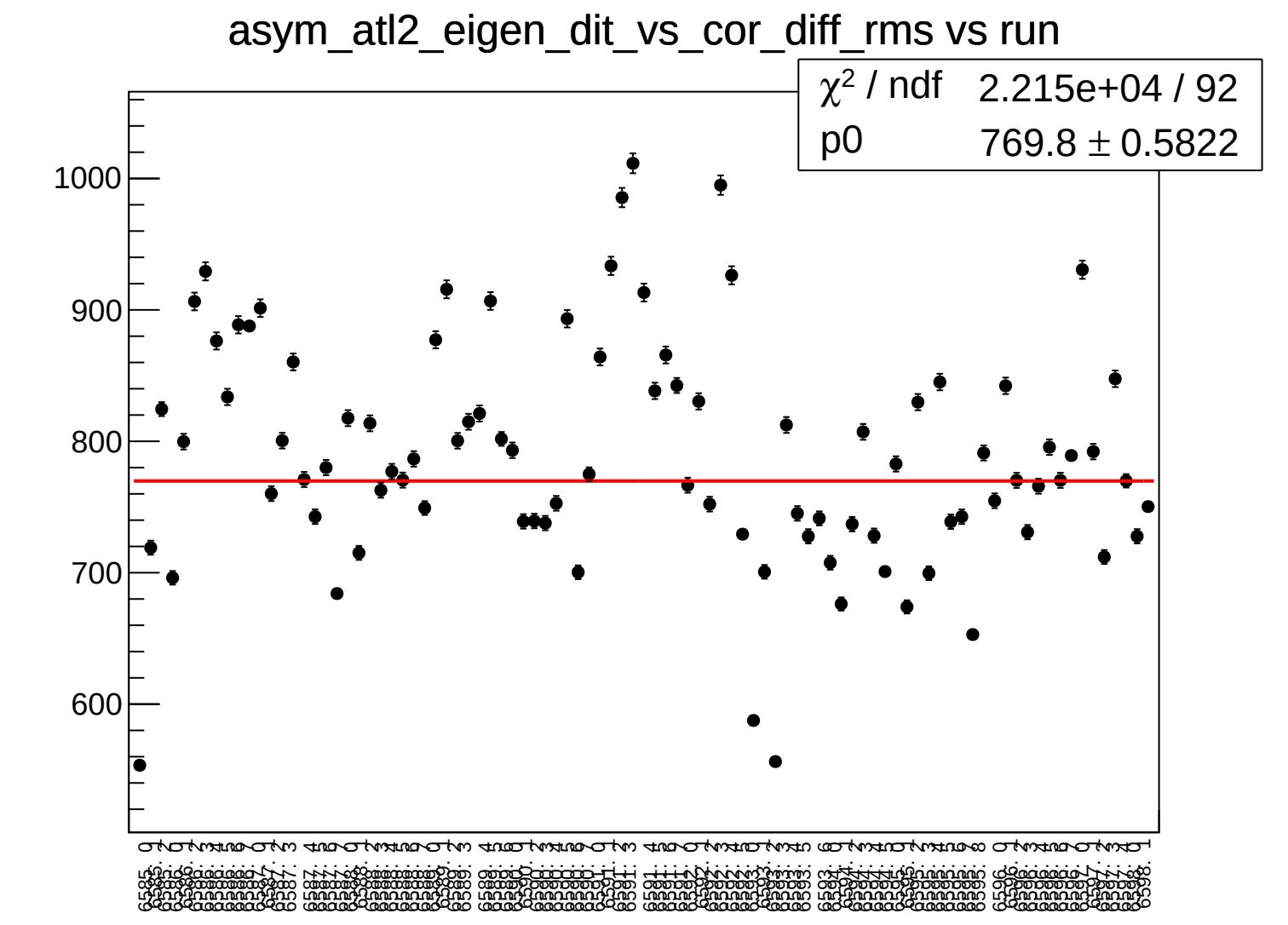

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.45 / 92
p0 −0.809 ± 0.8233
pull
Entries 93
Mean −113.2
Std Dev 680.4
pull1D
Entries 93
Mean 0.0003089
Std Dev 0.9184

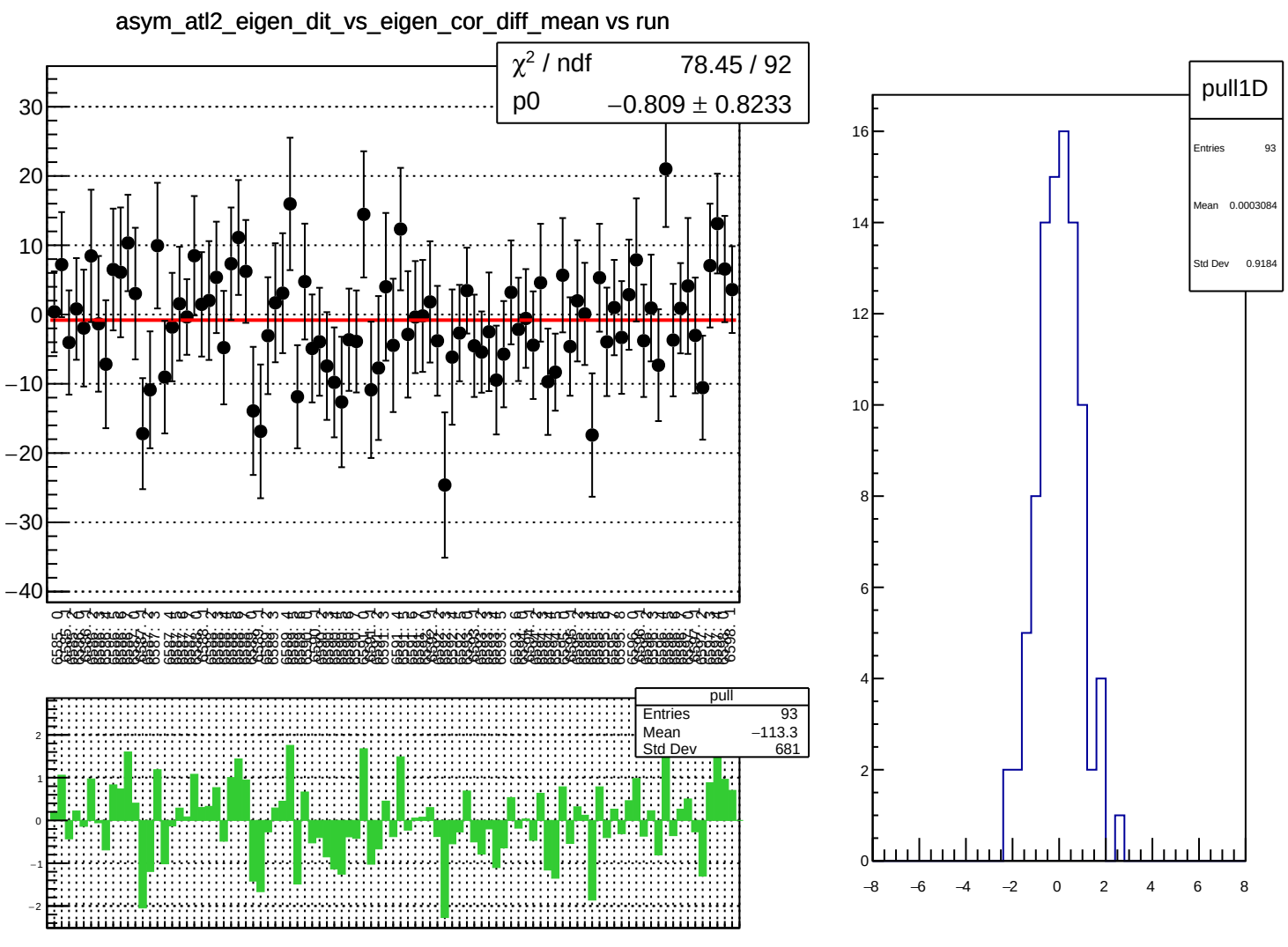

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 92
p0 769.8 ± 0.5822
1000
900
800
700
600

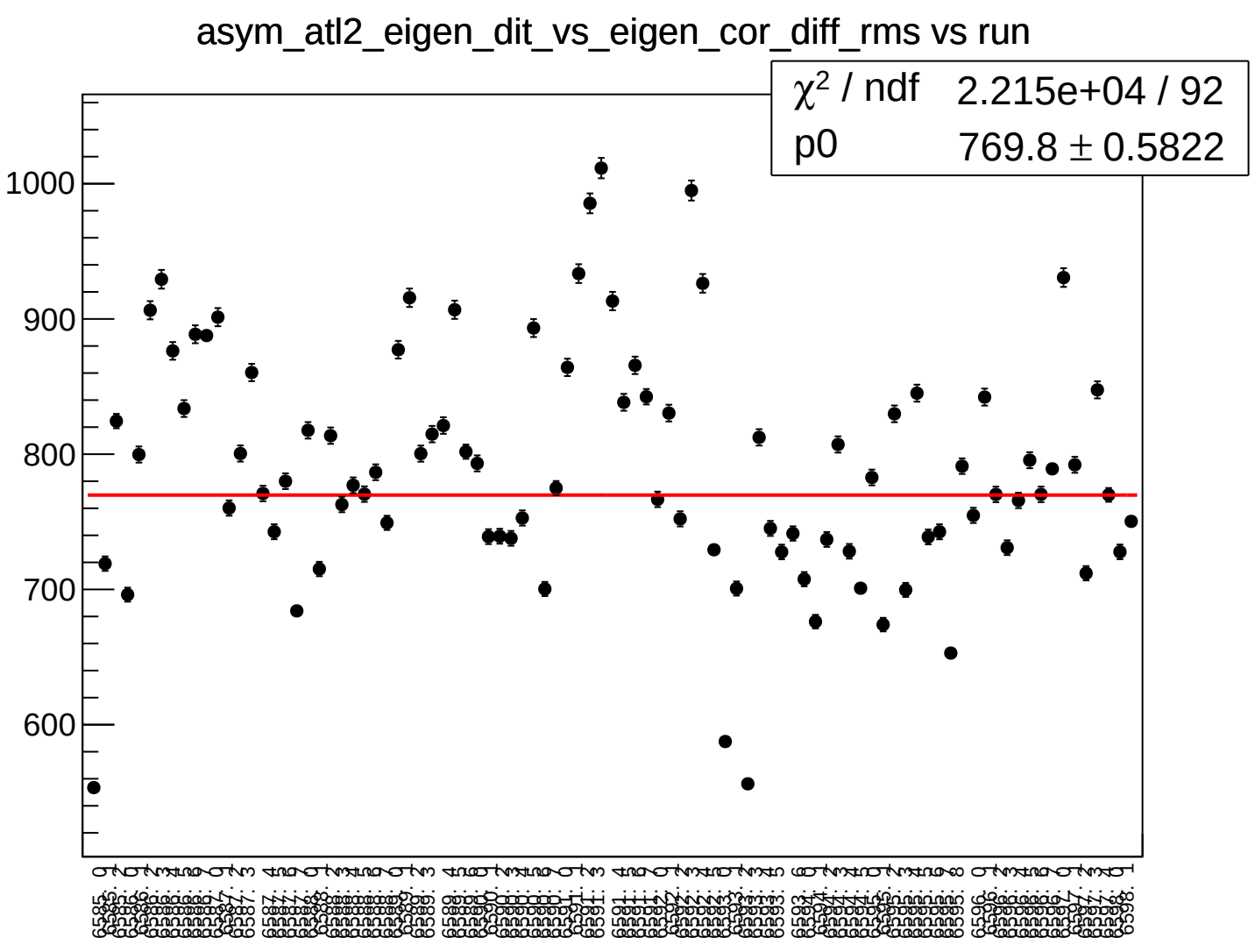

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 108.7 / 92
p0 8.764e−06 ± 2.054e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 93
Mean 1108
Std Dev 0
pull1D
Entries 93
Mean 0.001446
Std Dev 1.081
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

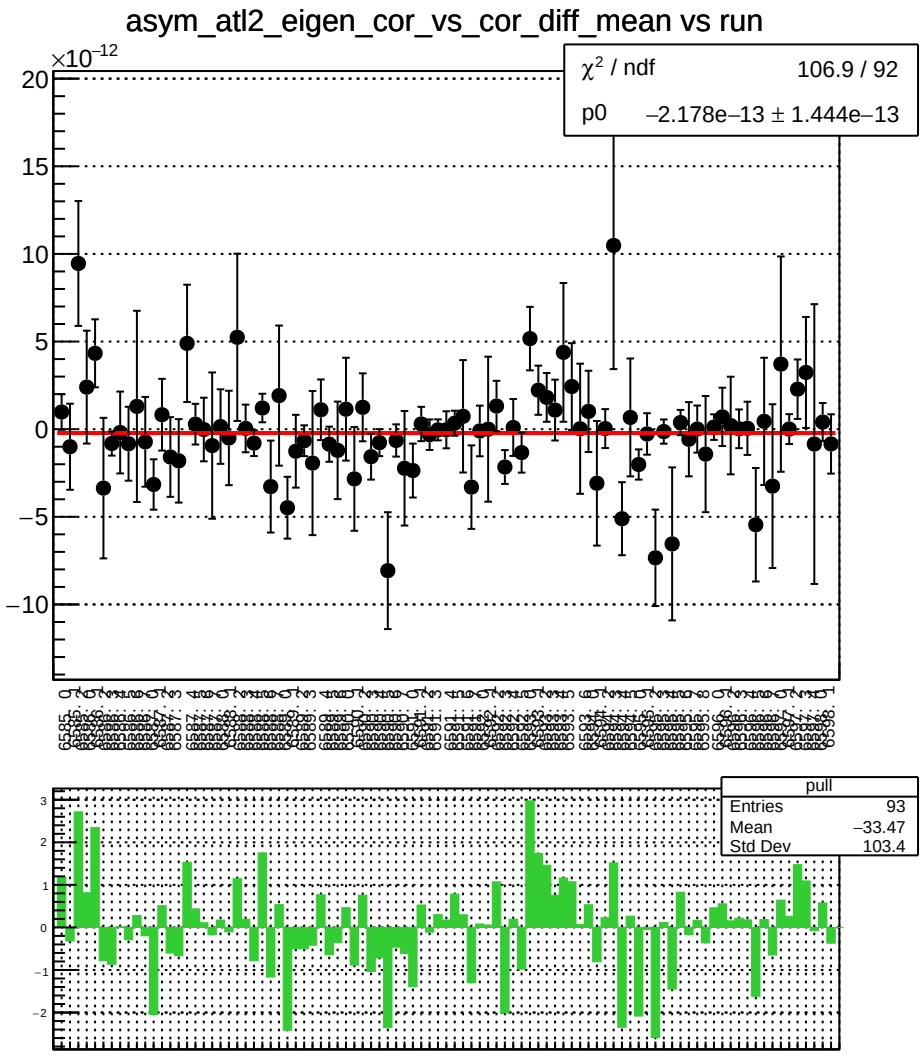

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.057e+04 / 92
p0 0.01927 ± 1.452e−05
0.026
0.024
0.022
0.02
0.018
0.016

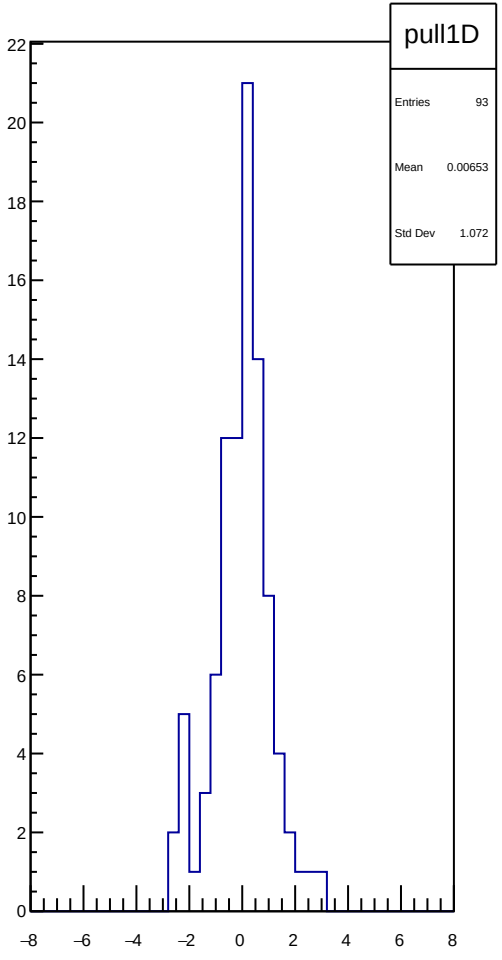

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.45 / 92
p0 −0.809 ± 0.8233
pull
Entries 93
Mean −113.3
Std Dev 681
pull1D
Entries 93
Mean 0.0003084
Std Dev 0.9184

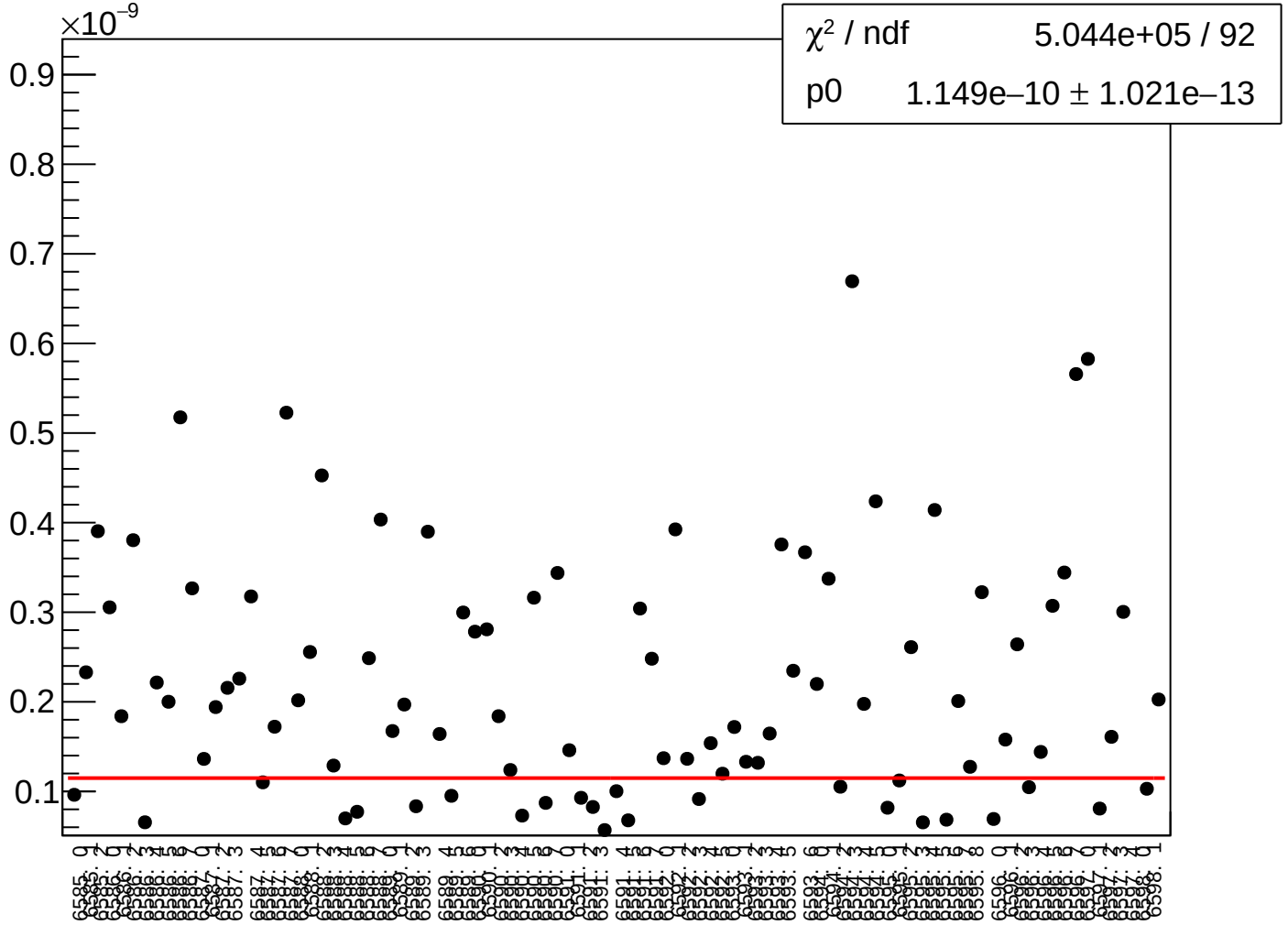

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 92
p0 769.8 ± 0.5822
1000
900
800
700
600

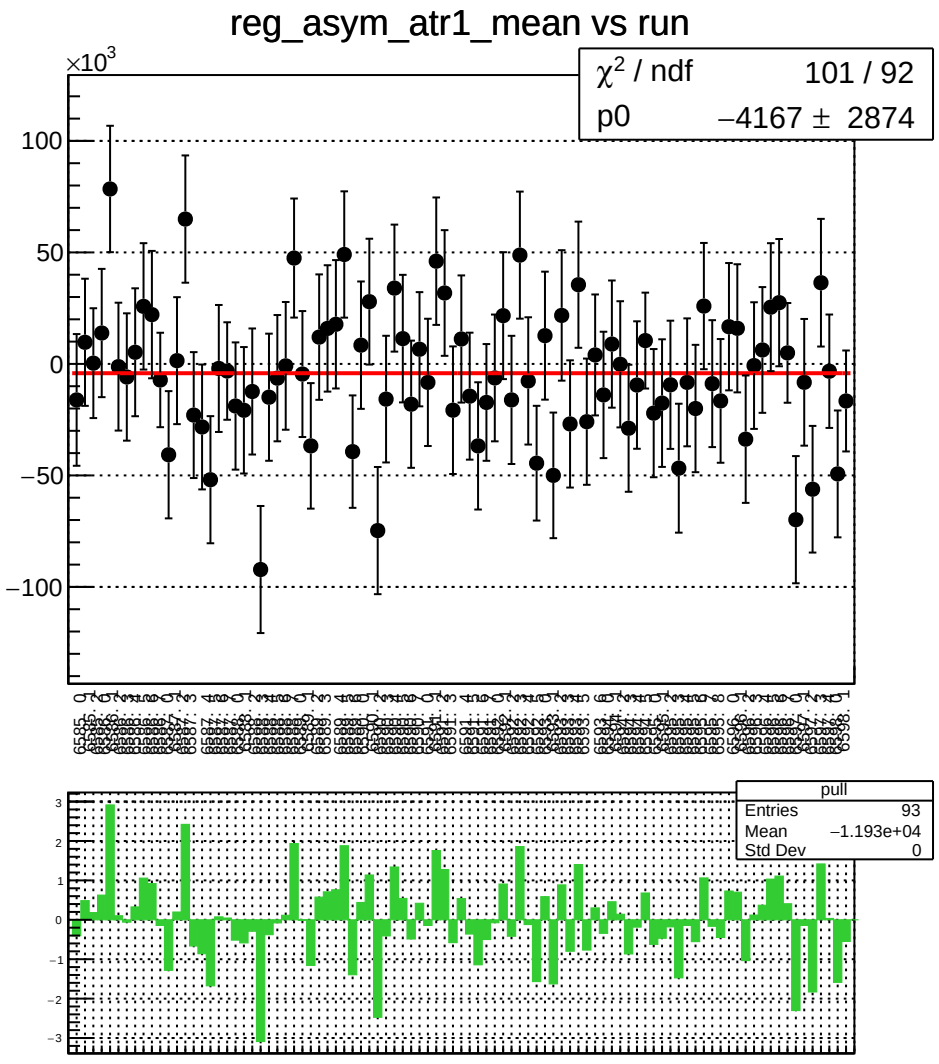

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.45 / 92
p0 −0.809 ± 0.8233
pull
Entries 93
Mean −113.3
Std Dev 681
pull1D
Entries 93
Mean 0.0003084
Std Dev 0.9184

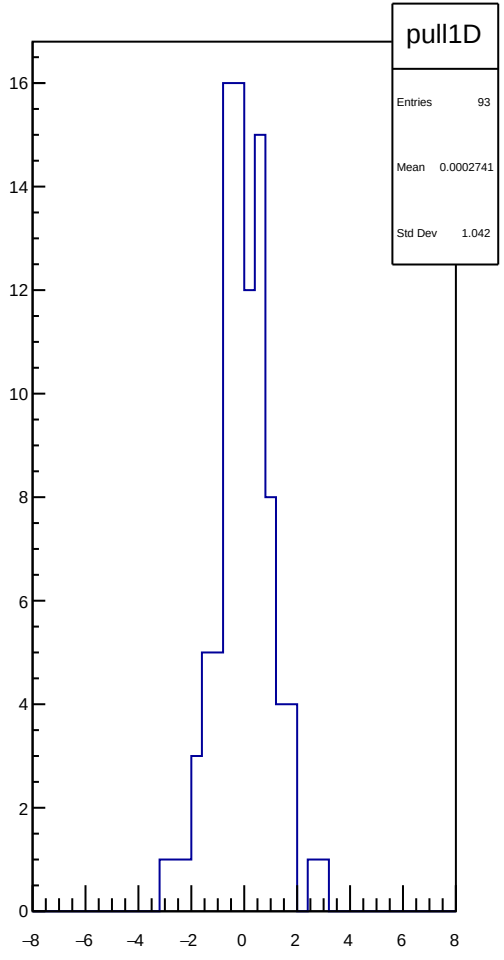

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 92
p0 769.8 ± 0.5822
1000
900
800
700
600

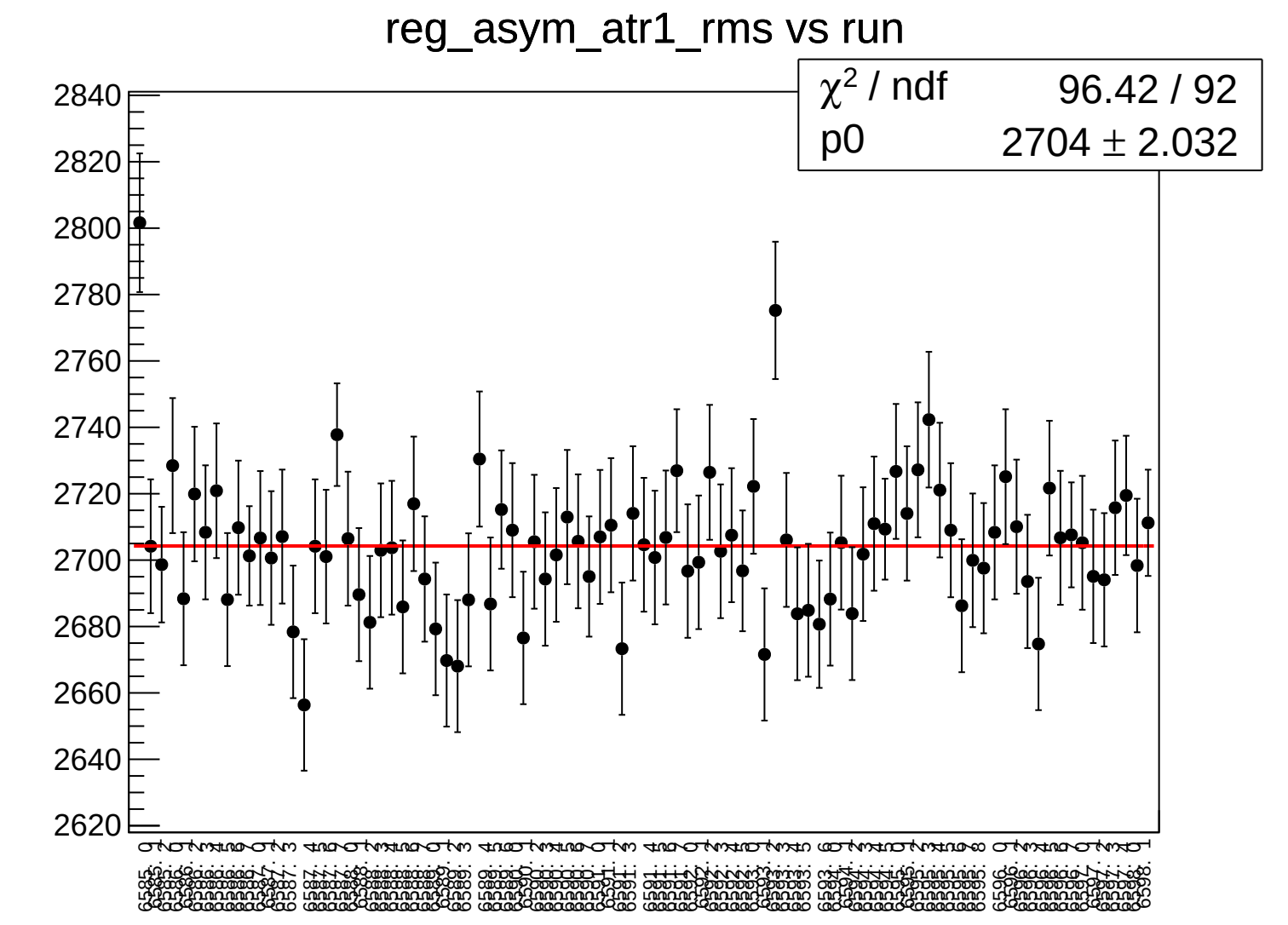

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.9 / 92
p0 −2.178e−13 ± 1.444e−13
pull
Entries 93
Mean −33.47
Std Dev 103.4

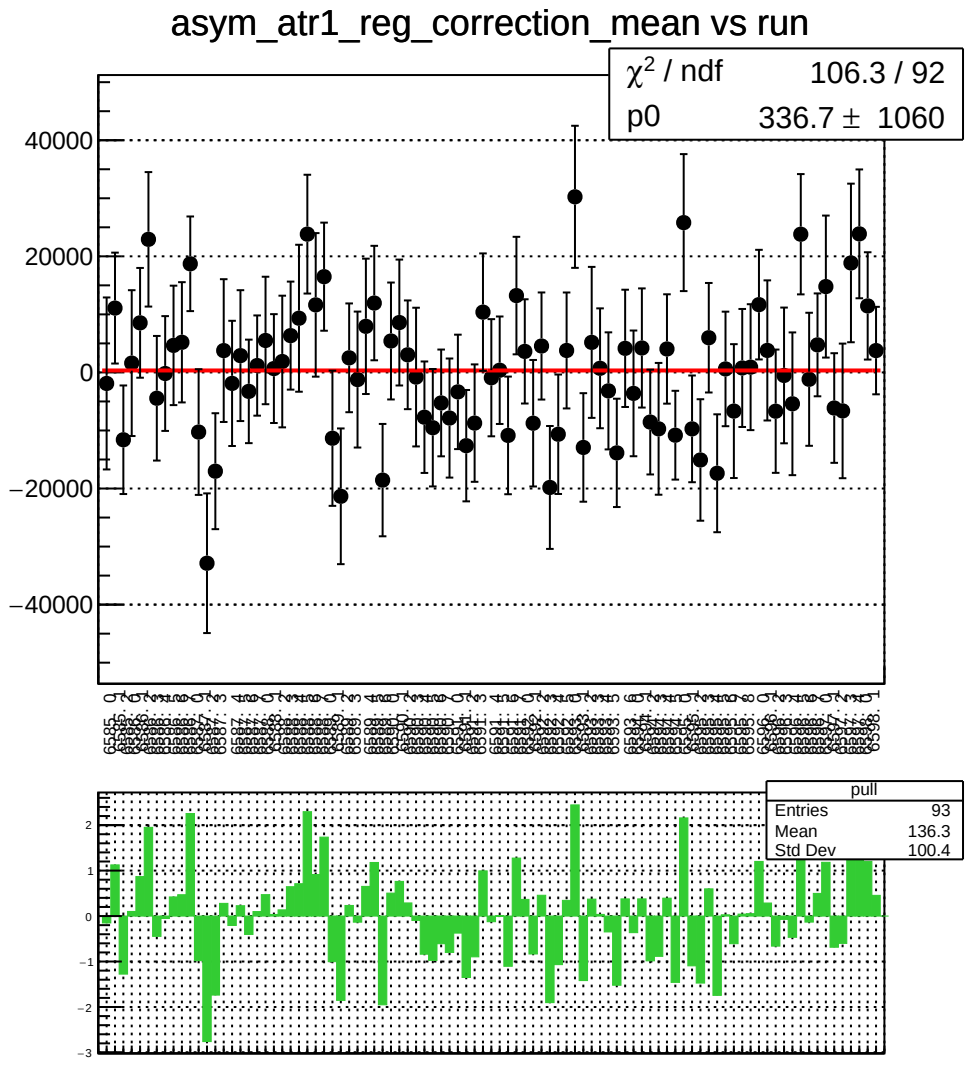

pull1D
Entries 93
Mean 0.00653
Std Dev 1.072

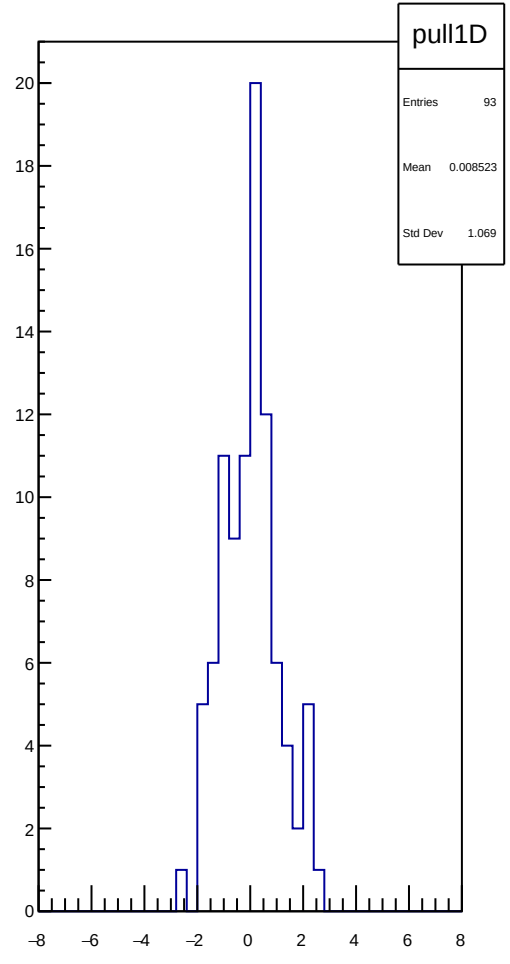

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.044e+05 / 92
p0 1.149e−10 ± 1.021e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

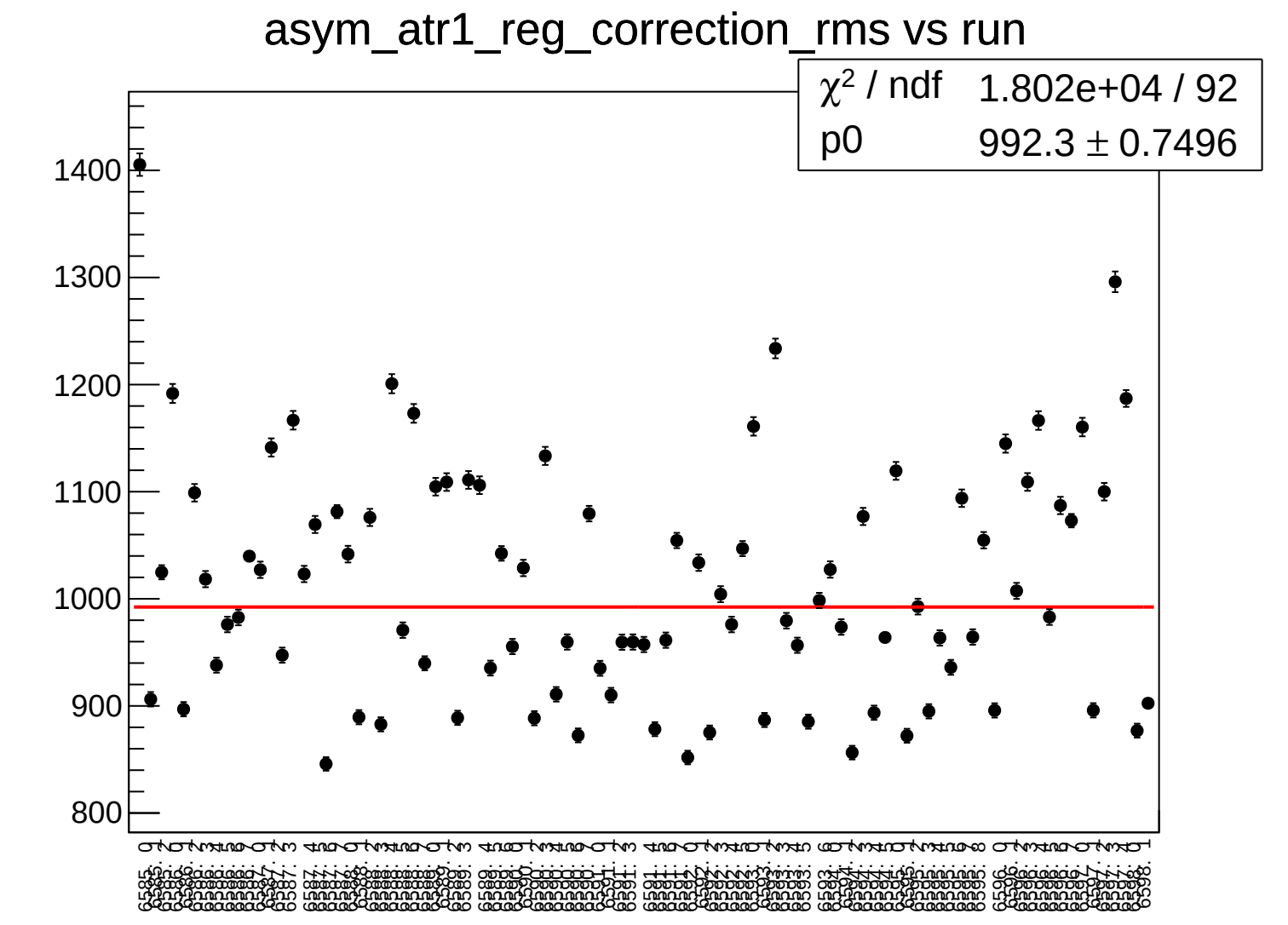

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 101 / 92
p0 −4167 ± 2874
100
50
0
−50
−100
pull
Entries 93
Mean −1.193e+04
Std Dev 0
3
2
1
0
−1
−2
−3

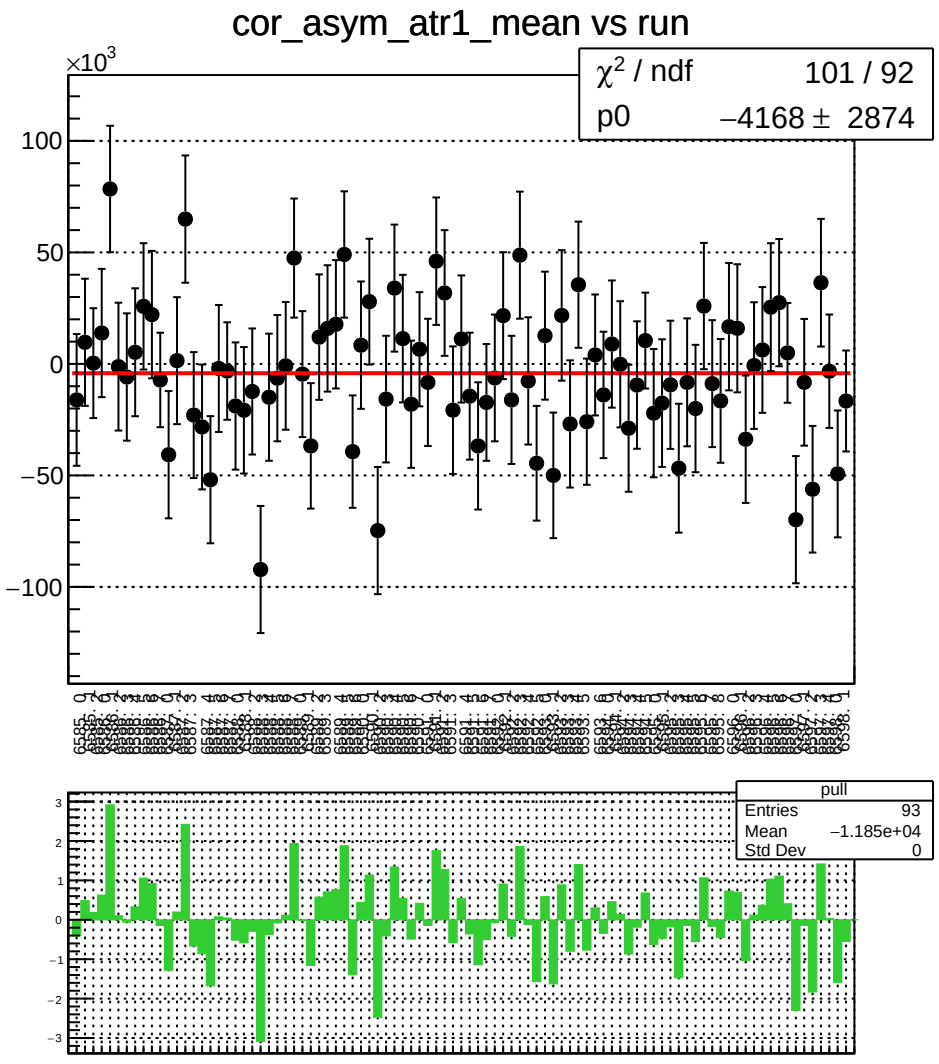

pull1D
Entries 93
Mean 0.0002741
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

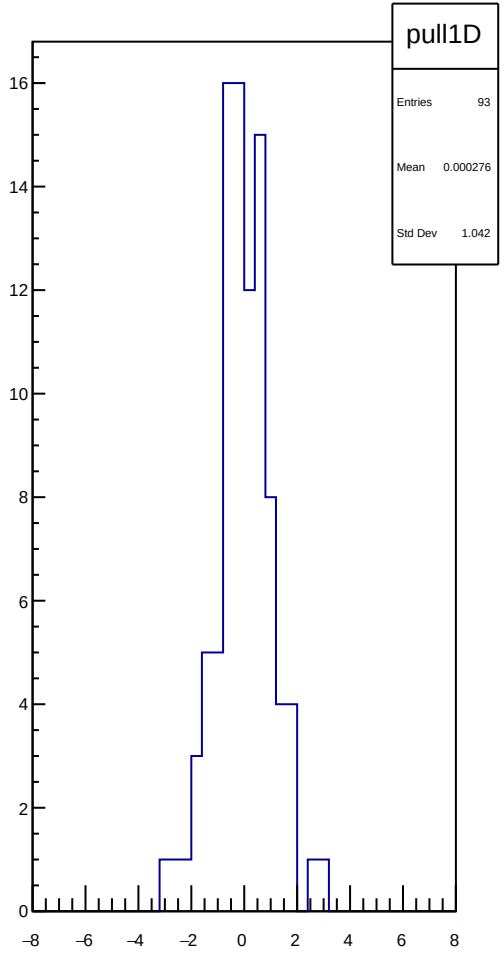

reg_asym_atr1_rms vs run
χ^2 / ndf 96.42 / 92
p0 2704 ± 2.032
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

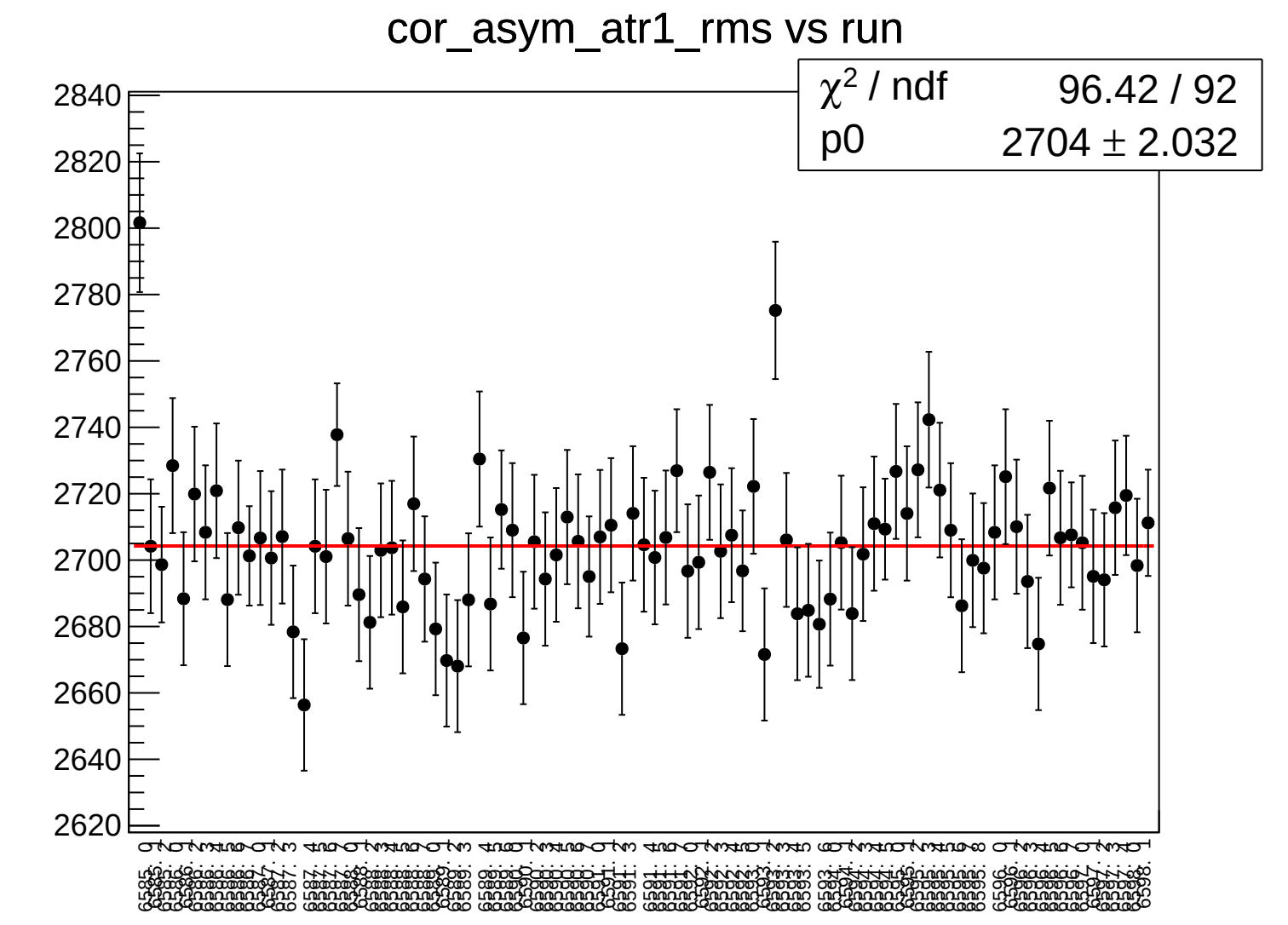

asym_atr1_reg_correction_mean vs run
χ² / ndf 106.3 / 92
p0 336.7 ± 1060
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 136.3
Std Dev 100.4
2
1
0
−1
−2
−3

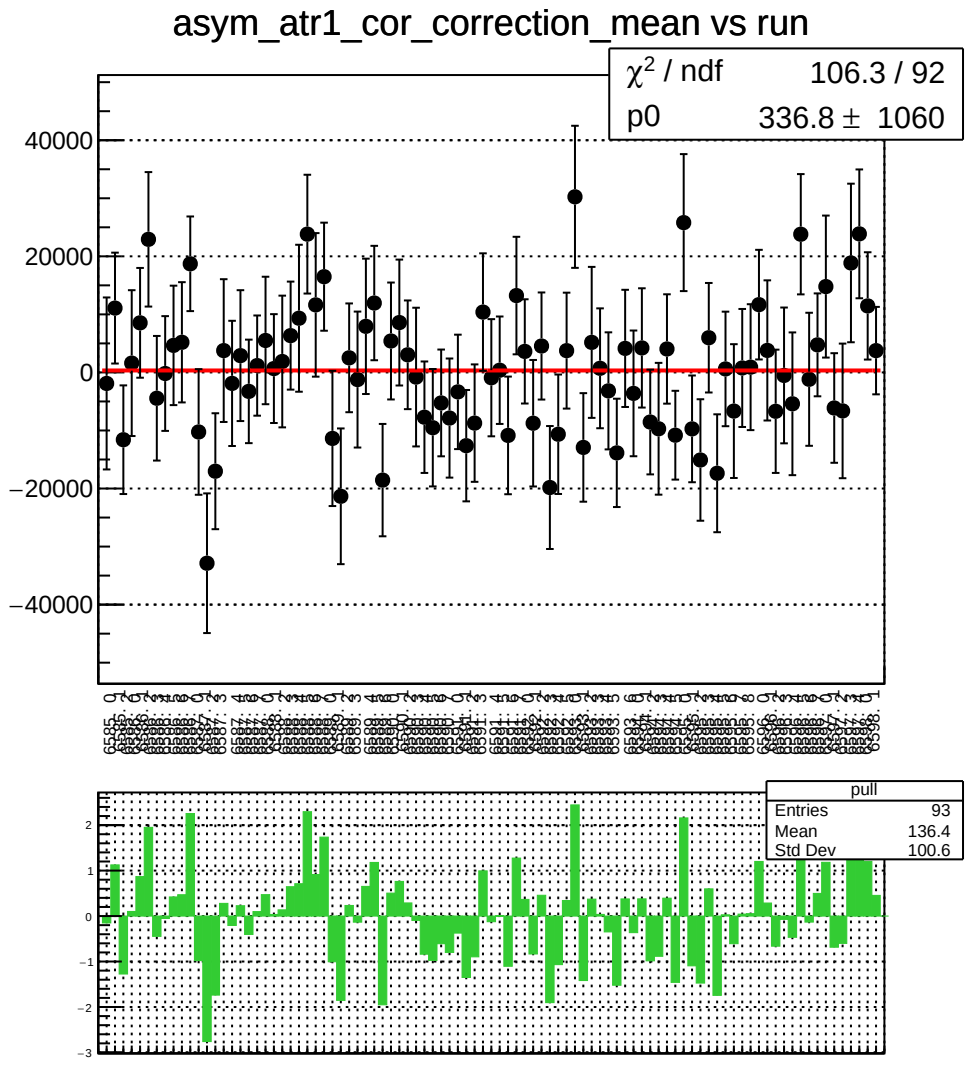

pull1D
Entries 93
Mean 0.008523
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

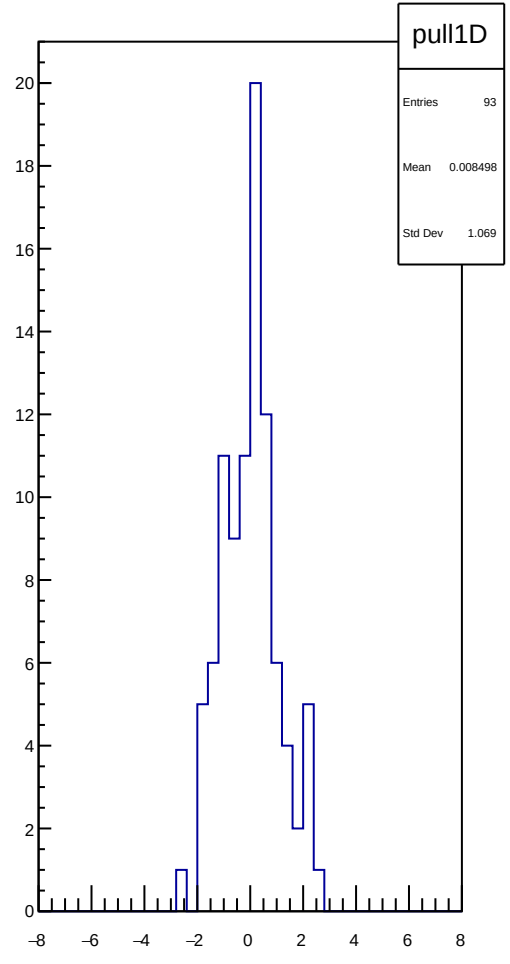

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.802e+04 / 92
p0 992.3 ± 0.7496
1400
1300
1200
1100
1000
900
800

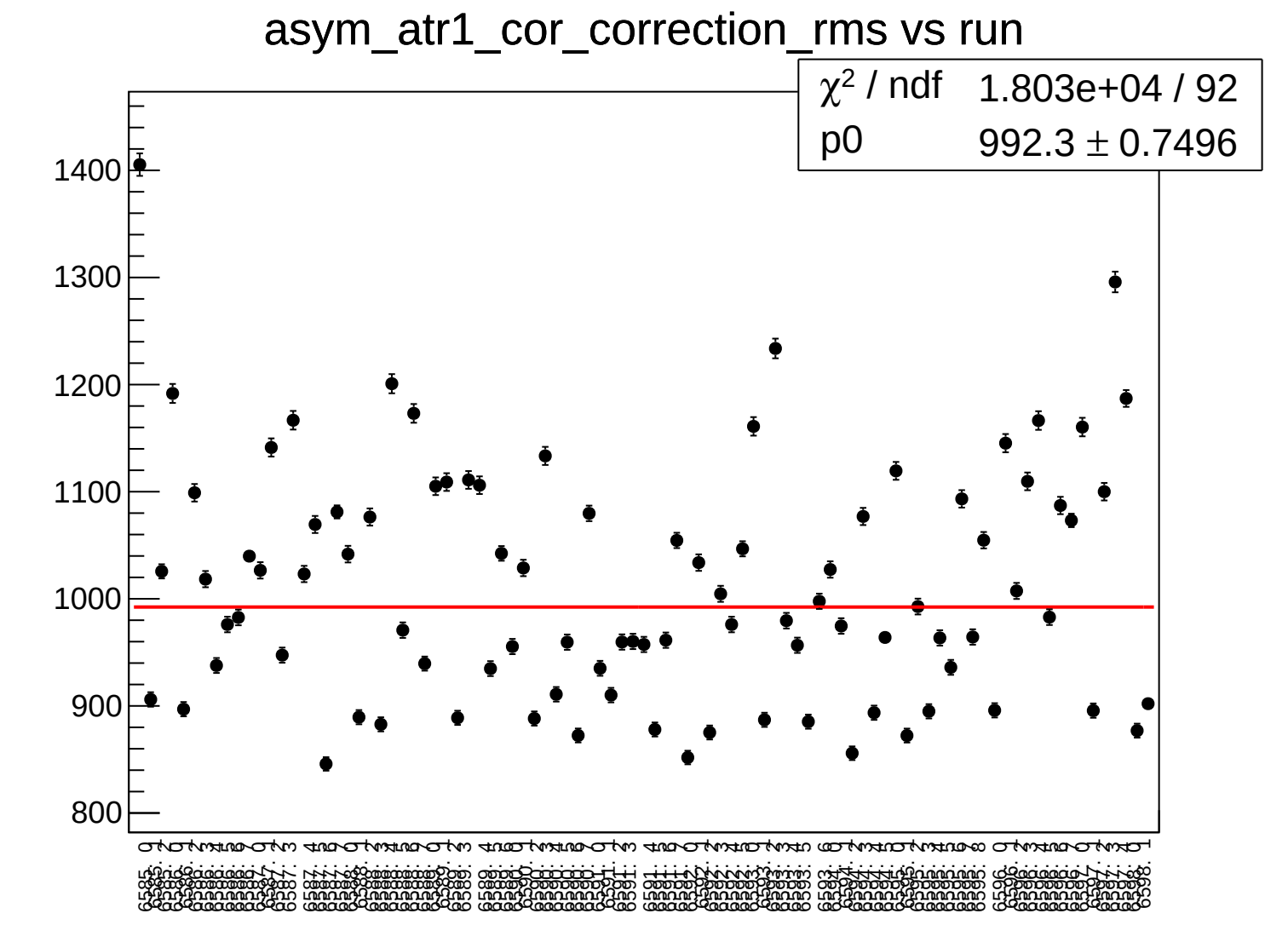

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 101 / 92
p0 −4168 ± 2874
100
50
0
−50
−100
pull
Entries 93
Mean −1.185e+04
Std Dev 0
3
2
1
0
−1
−2
−3

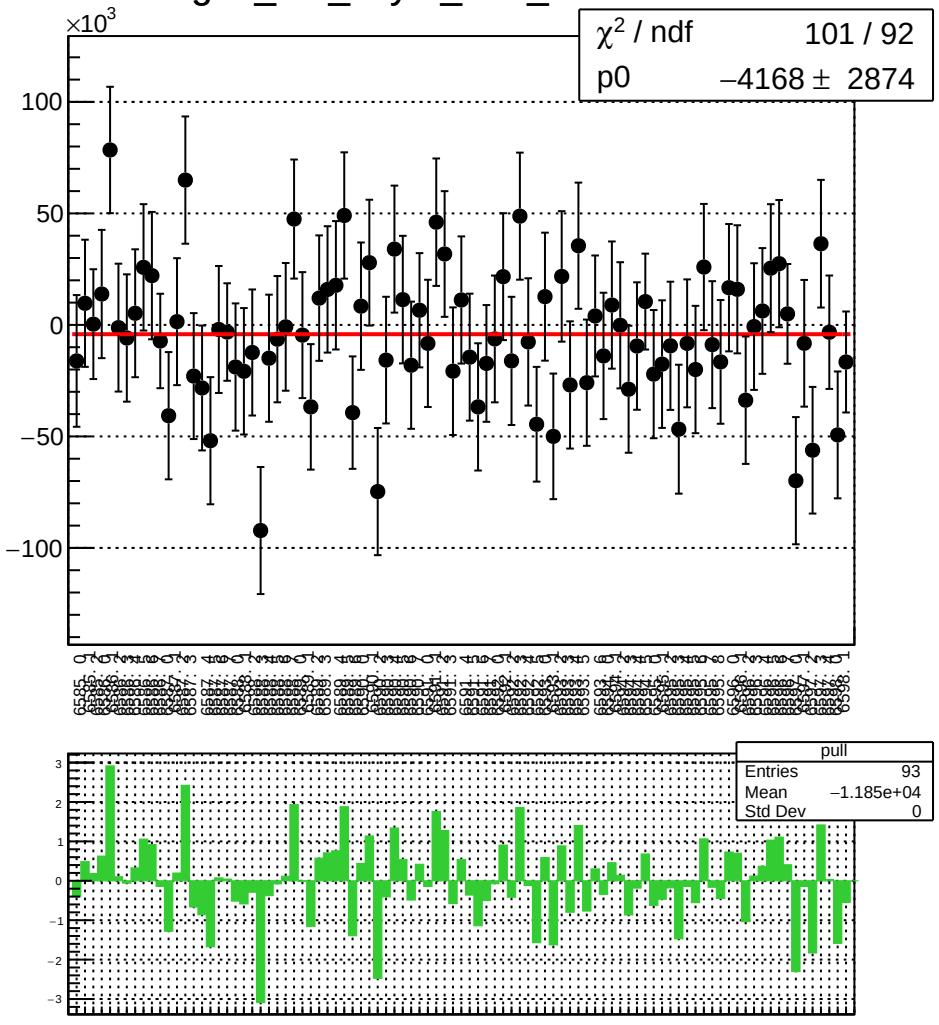

pull1D
Entries 93
Mean 0.000276
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

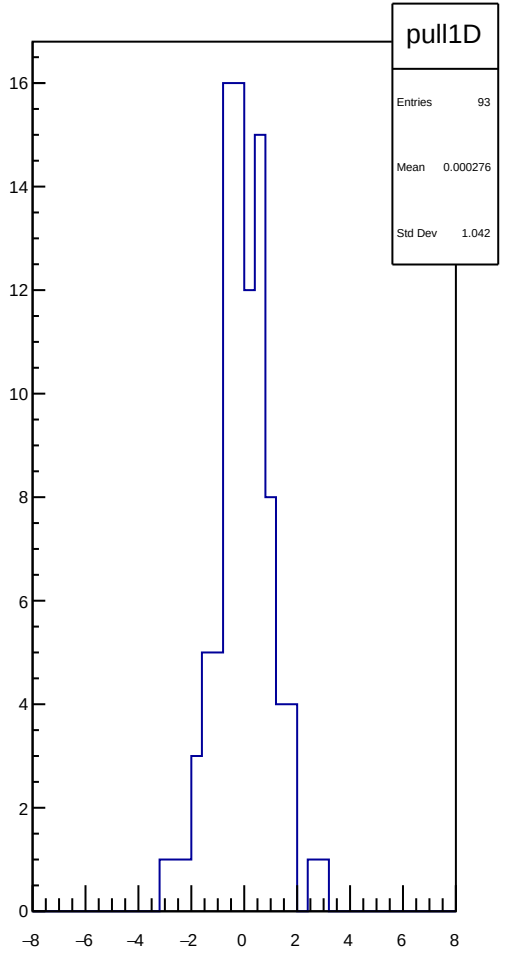

cor_asym_atr1_rms vs run
χ² / ndf 96.42 / 92
p0 2704 ± 2.032
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620


asym_atr1_cor_correction_mean vs run
χ² / ndf 106.3 / 92
p0 336.8 ± 1060
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 136.4
Std Dev 100.6
2
1
0
−1
−2
−3

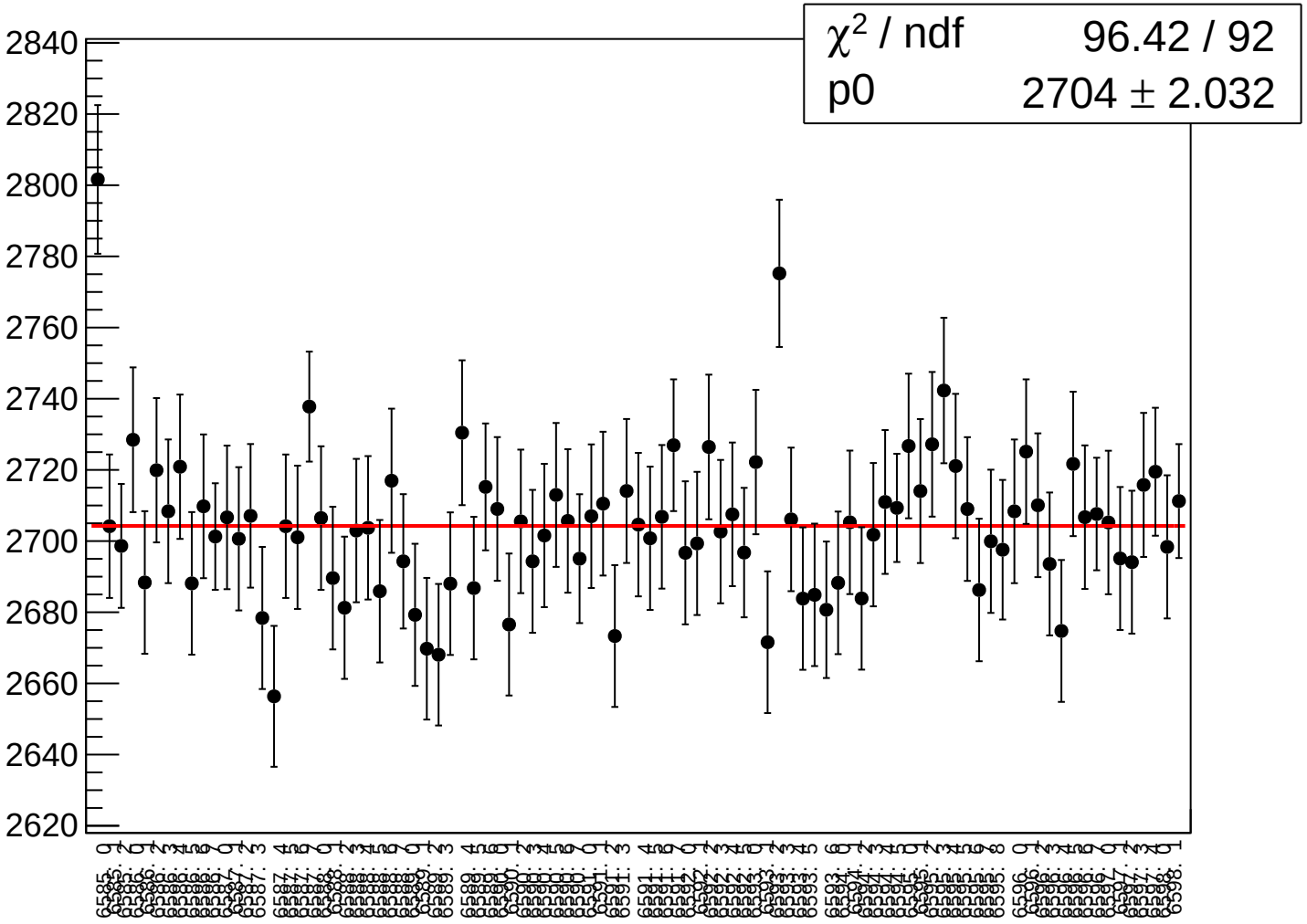

pull1D
Entries 93
Mean 0.008498
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

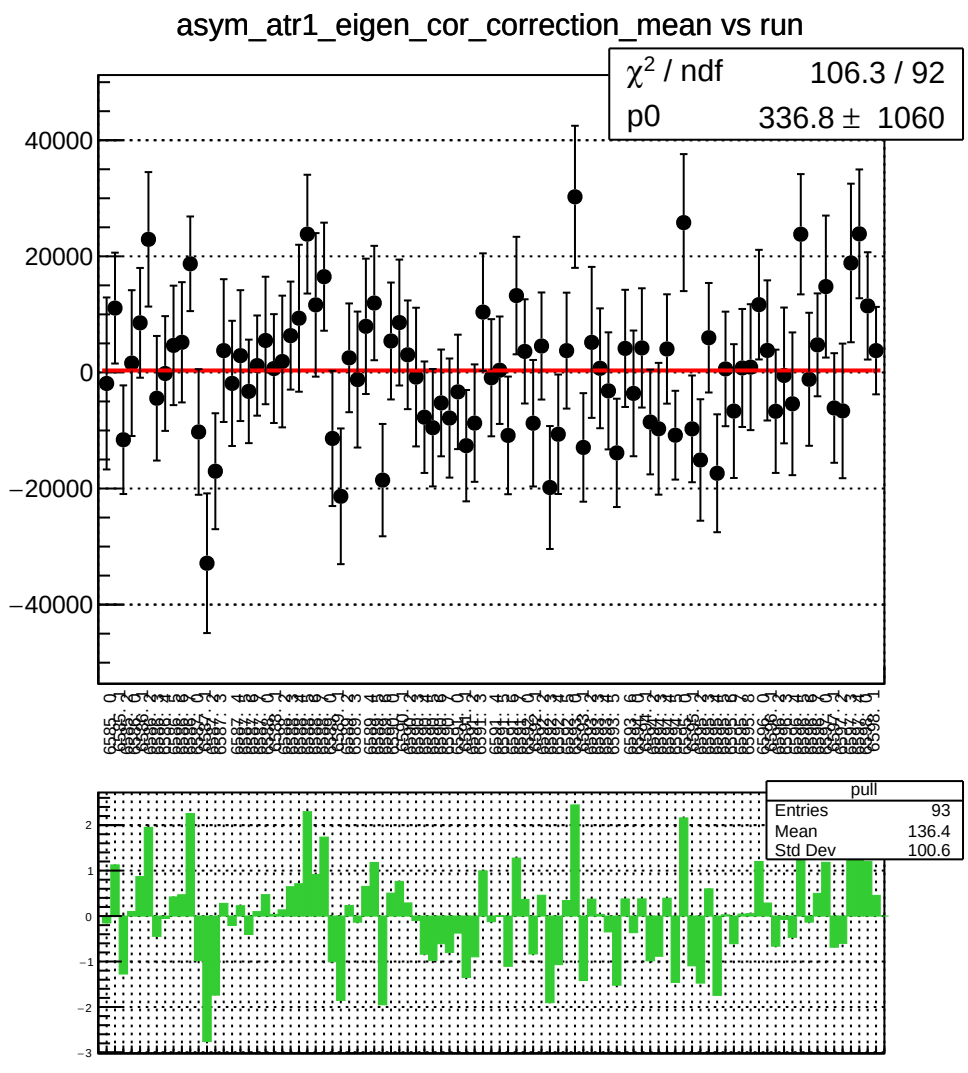

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.803e+04 / 92
p0 992.3 ± 0.7496
1400
1300
1200
1100
1000
900
800

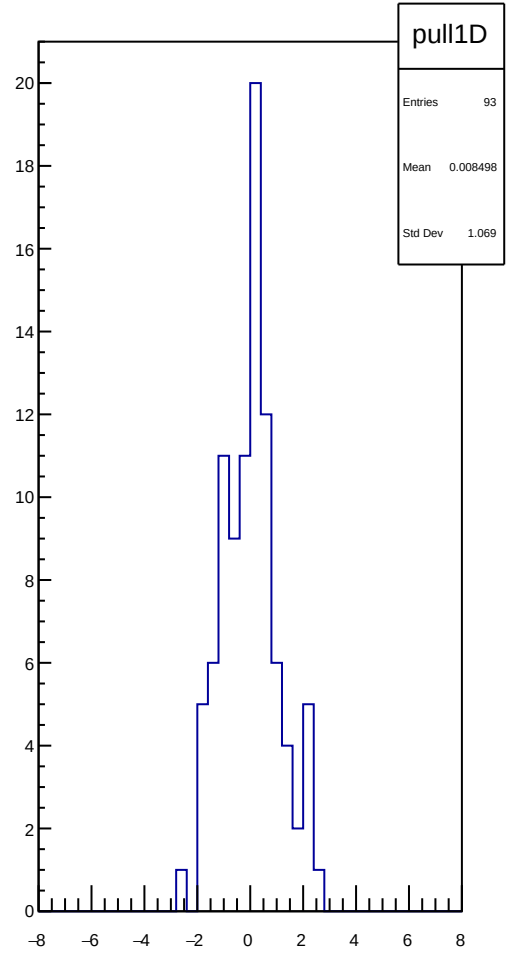

eigen_cor_asym_atr1_mean vs run
χ² / ndf 101 / 92
p0 −4168 ± 2874
×10³
100
50
0
−50
−100
pull
Entries 93
Mean −1.185e+04
Std Dev 0
3
2
1
0
−1
−2
−3

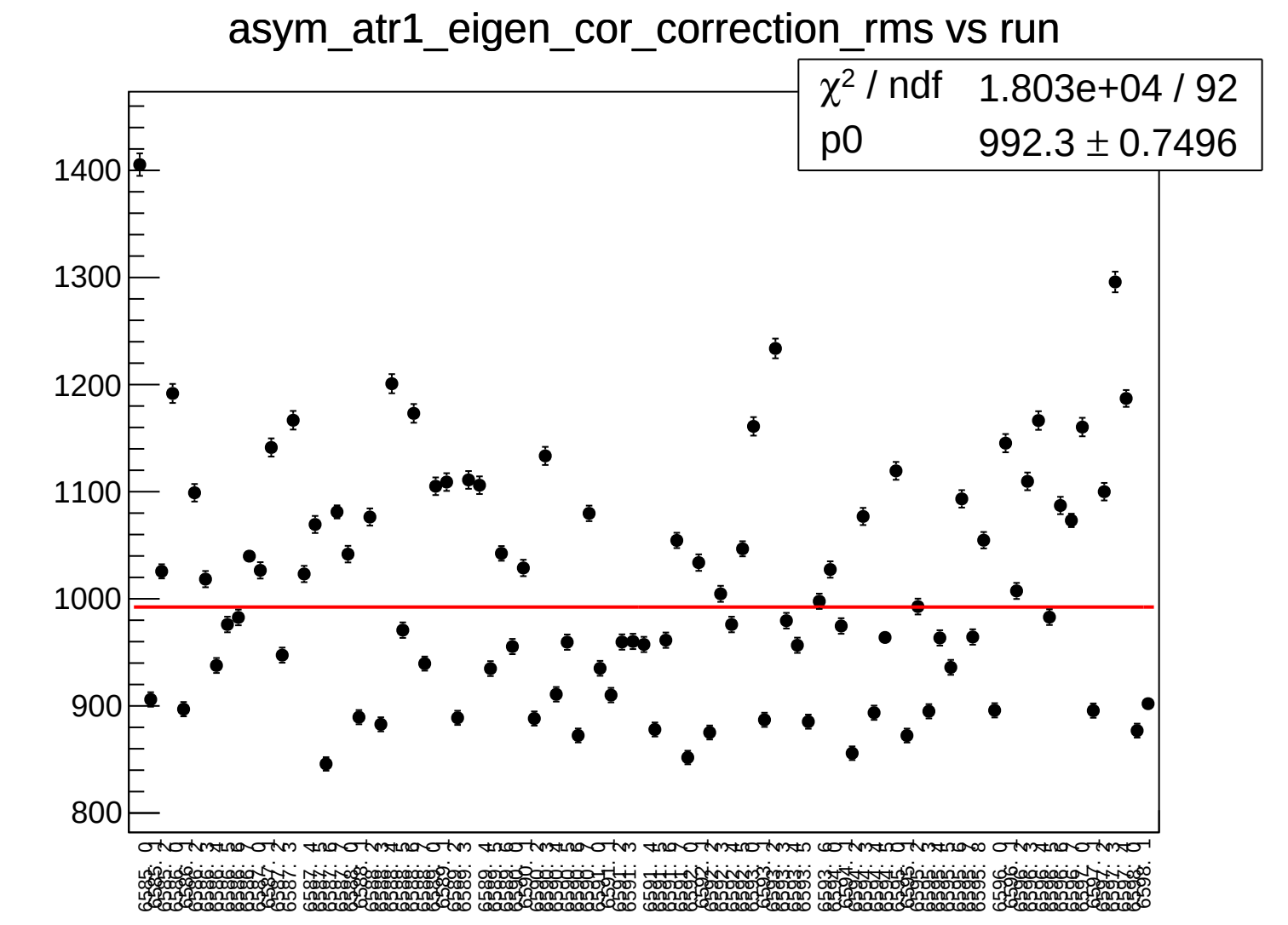

pull1D
Entries 93
Mean 0.000276
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

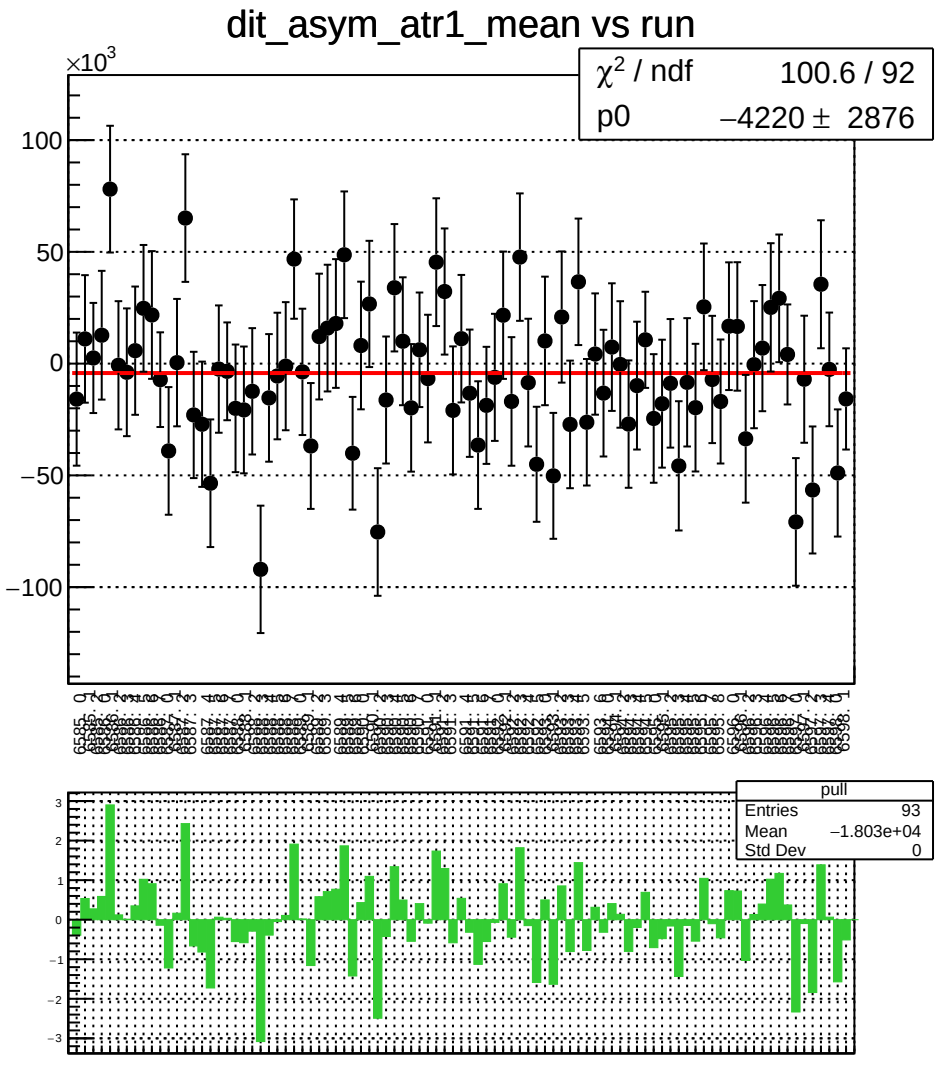
eigen_cor_asym_atr1_rms vs run

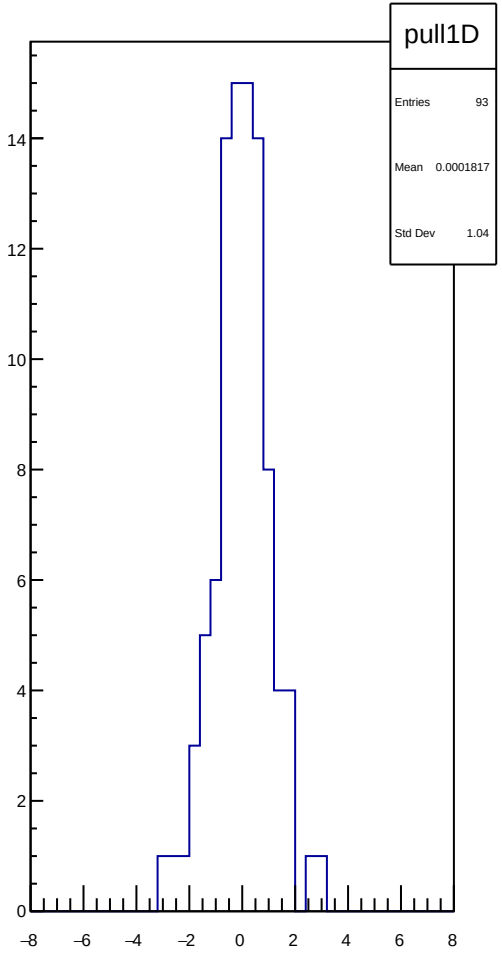


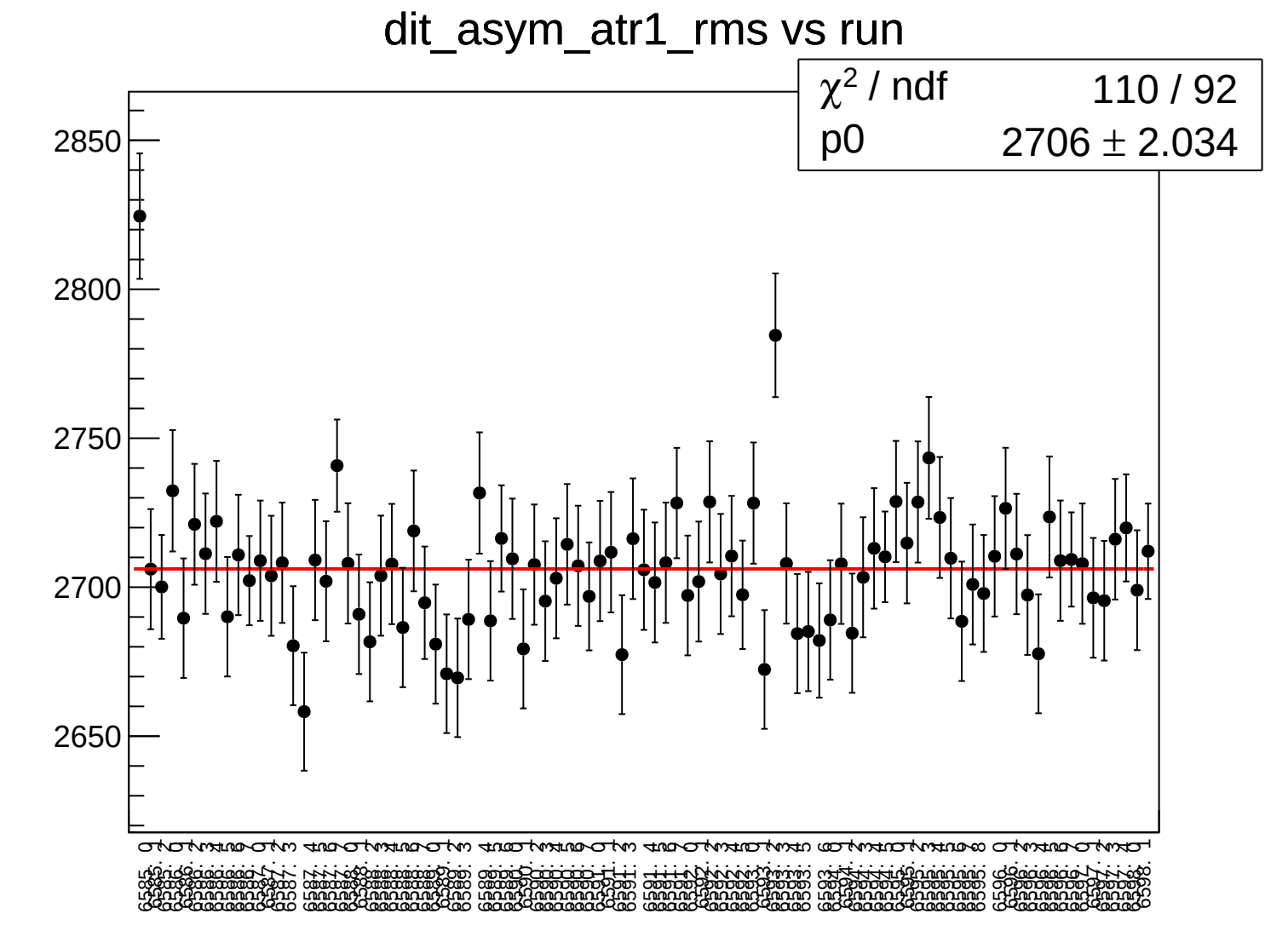

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 106.3 / 92
p0 336.8 ± 1060
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 136.4
Std Dev 100.6
2
1
0
−1
−2
−3

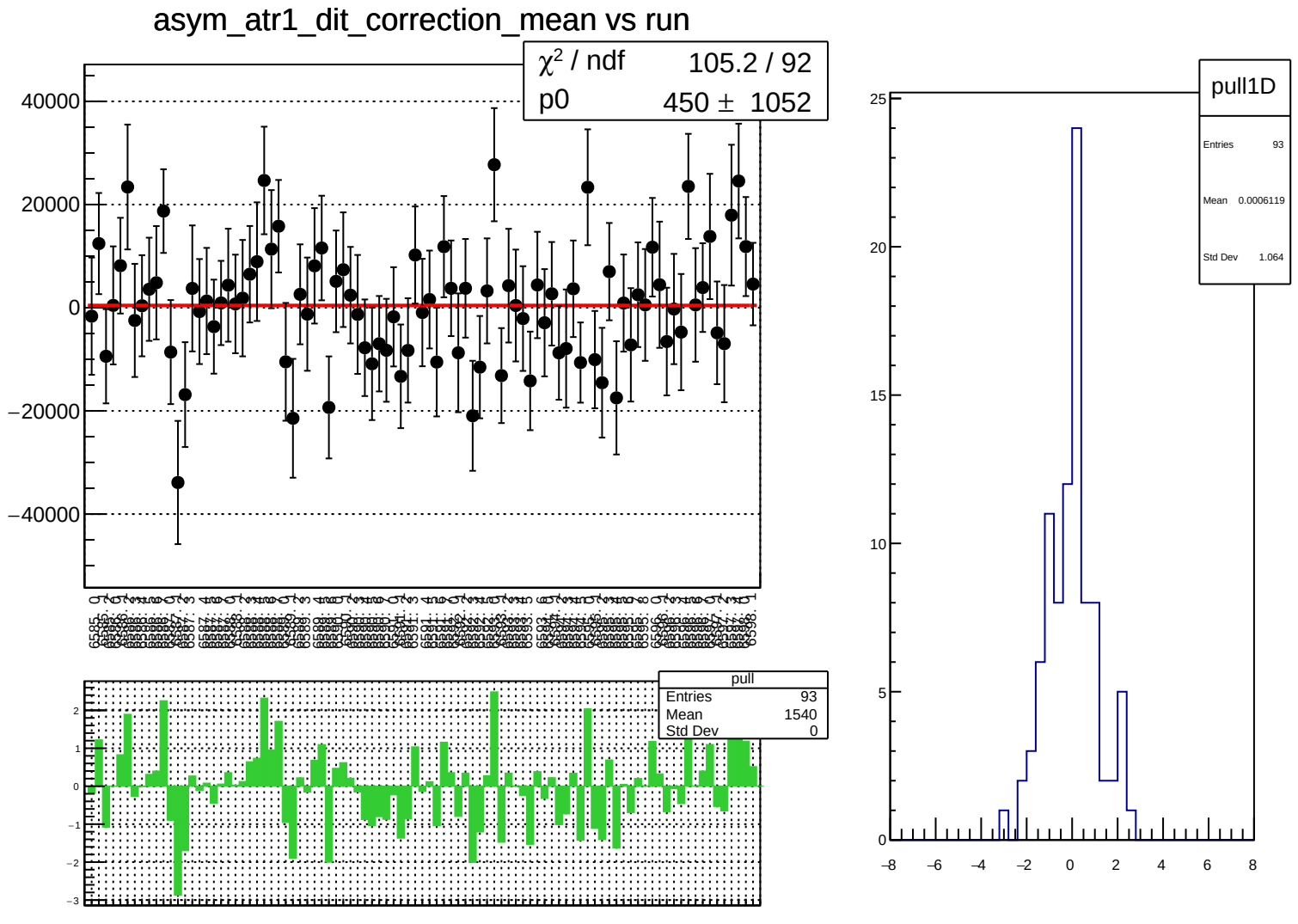

pull1D
Entries 93
Mean 0.008498
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

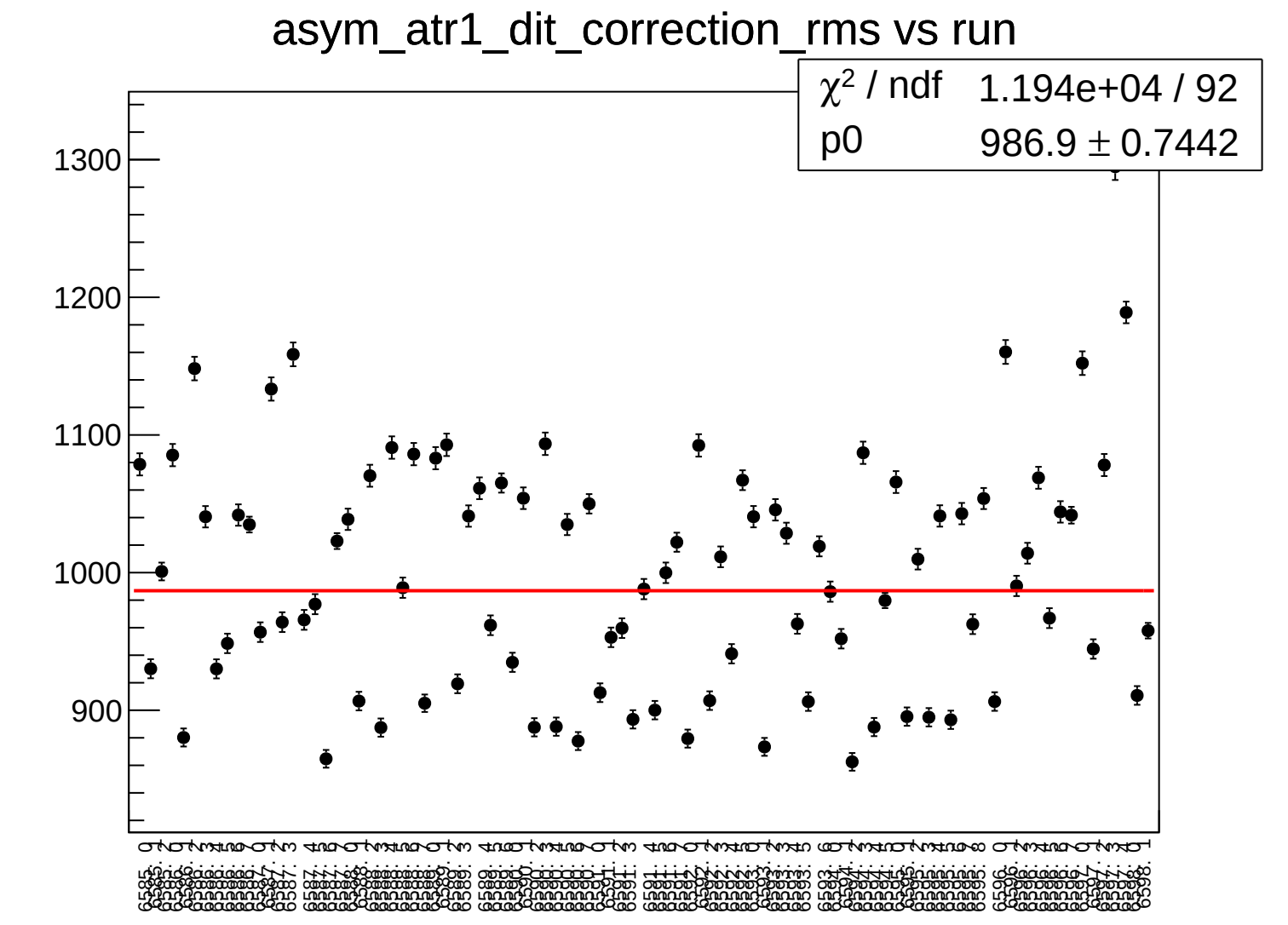

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.803e+04 / 92
p0 992.3 ± 0.7496
1400
1300
1200
1100
1000
900
800

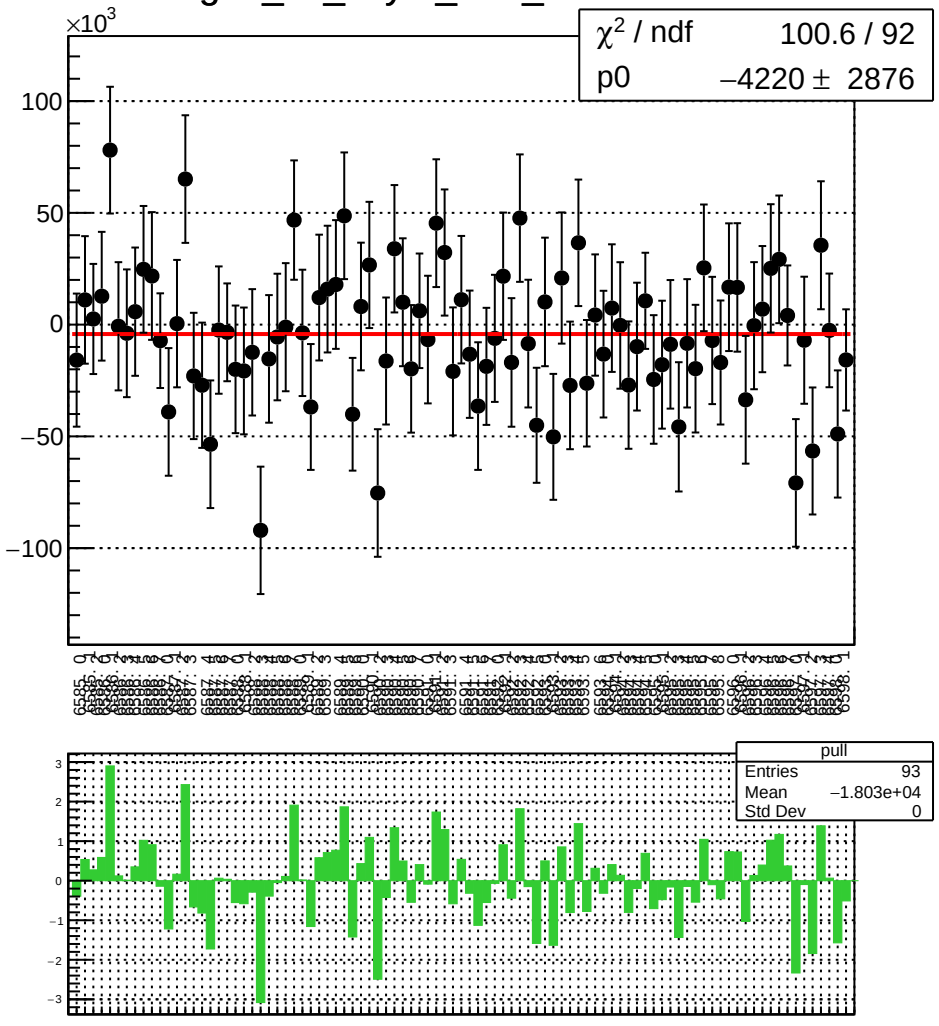

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 100.6 / 92
p0 −4220 ± 2876
100
50
0
−50
−100
pull
Entries 93
Mean −1.803e+04
Std Dev 0
3
2
1
0
−1
−2
−3

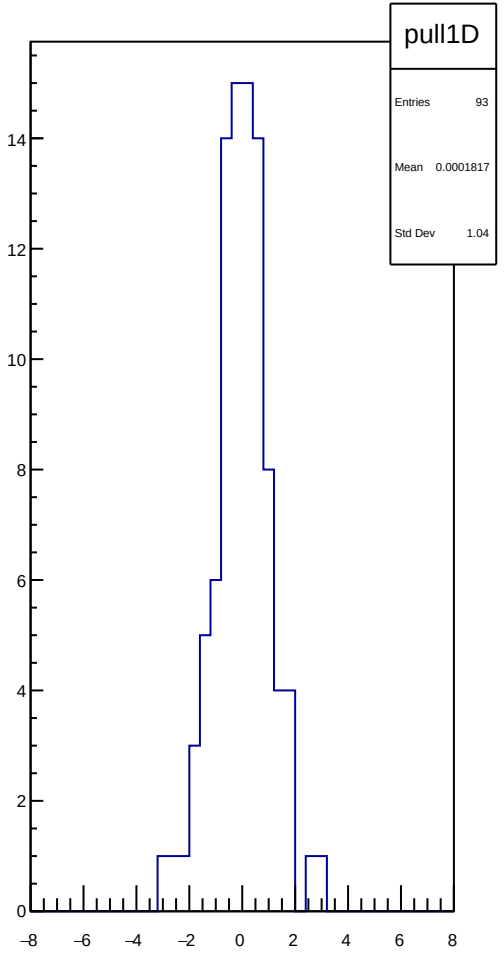

pull1D
Entries 93
Mean 0.0001817
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

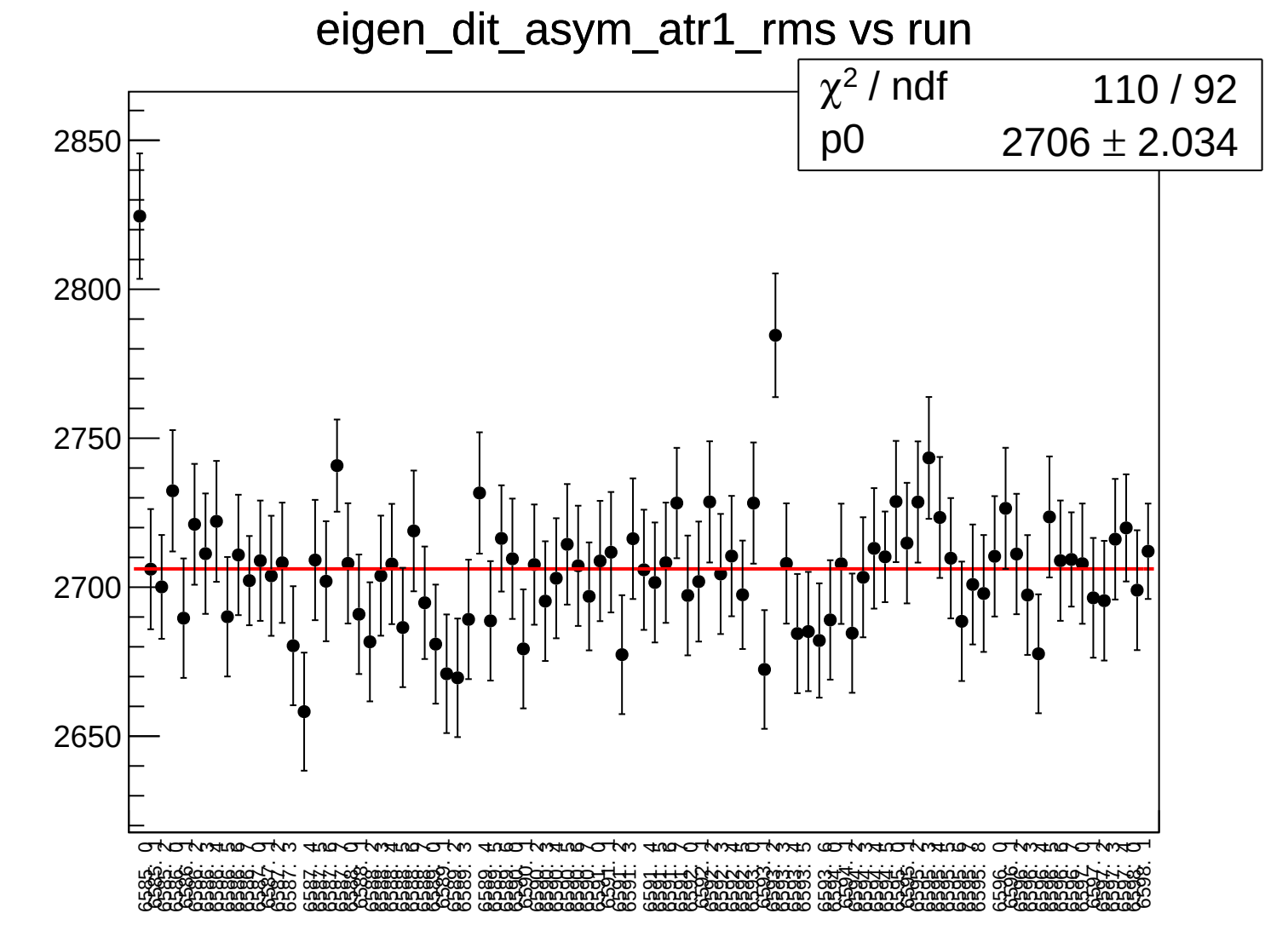

dit_asym_atr1_rms vs run
χ² / ndf 110 / 92
p0 2706 ± 2.034
2850
2800
2750
2700
2650

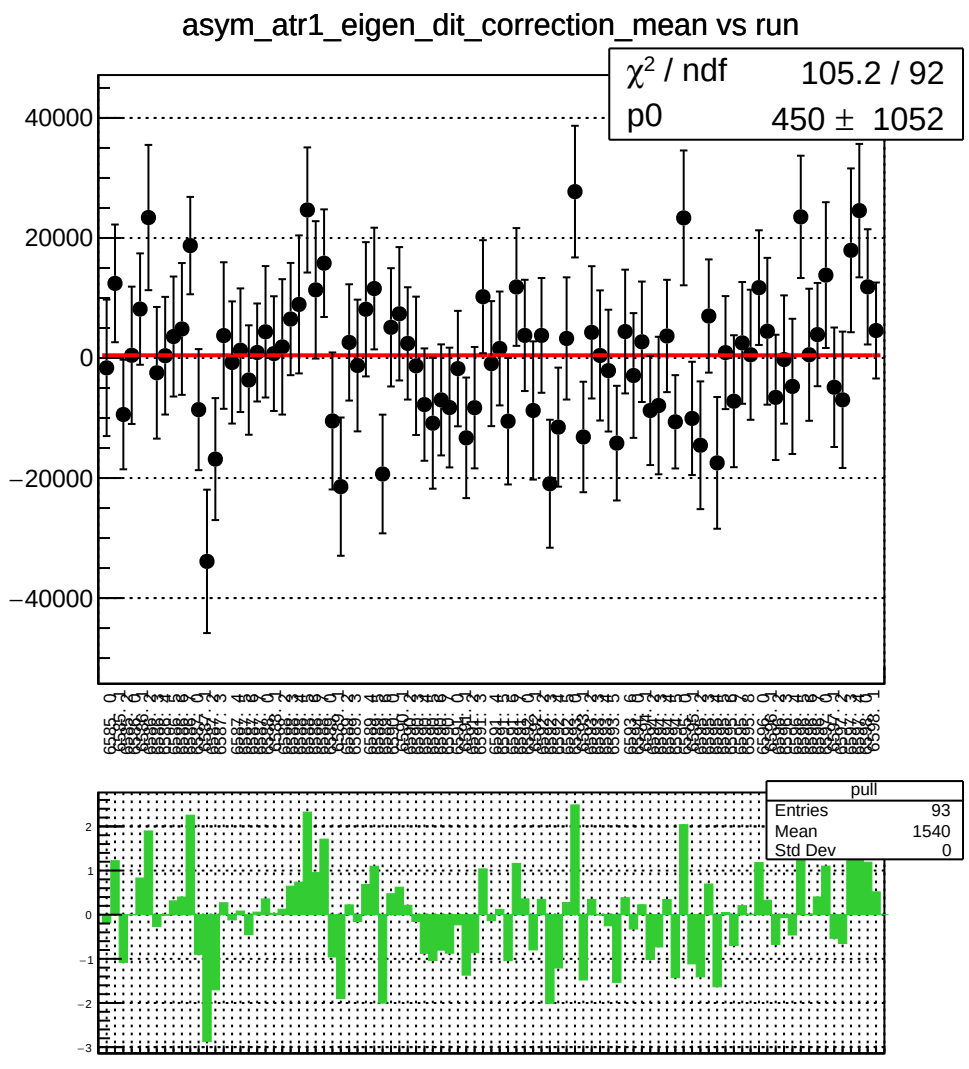

asym_atr1_dit_correction_mean vs run
χ² / ndf 105.2 / 92
p0 450 ± 1052
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1540
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.0006119
Std Dev 1.064
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

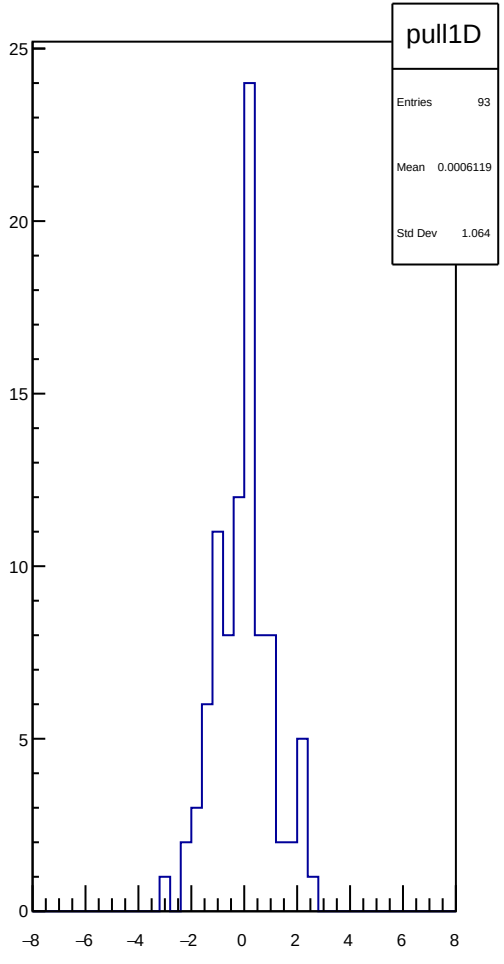

asym_atr1_dit_correction_rms vs run
χ² / ndf 1.194e+04 / 92
p0 986.9 ± 0.7442
1300
1200
1100
1000
900

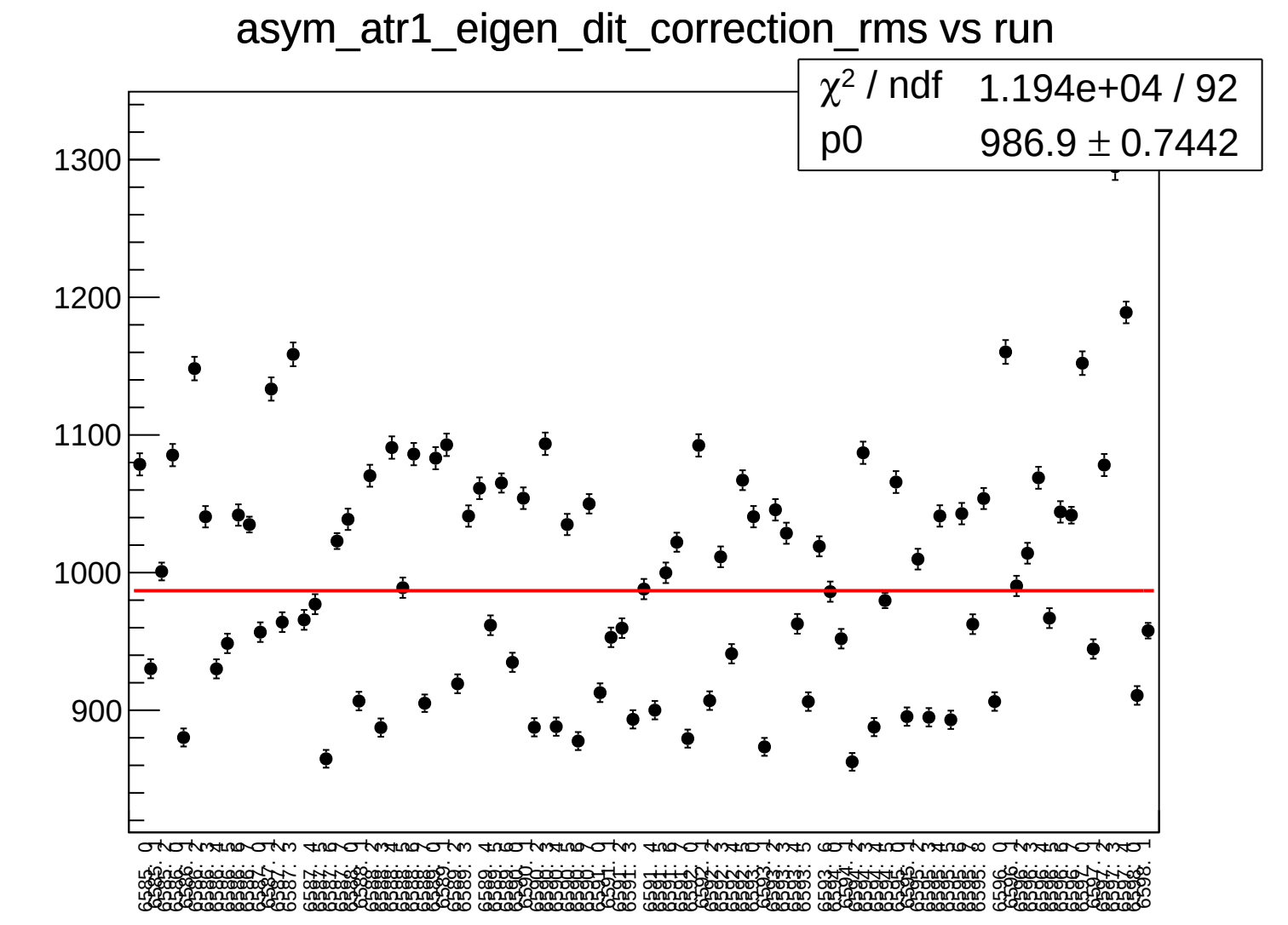

eigen_dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 100.6 / 92
p0 −4220 ± 2876
100
50
0
−50
−100
pull
Entries 93
Mean −1.803e+04
Std Dev 0
3
2
1
0
−1
−2
−3

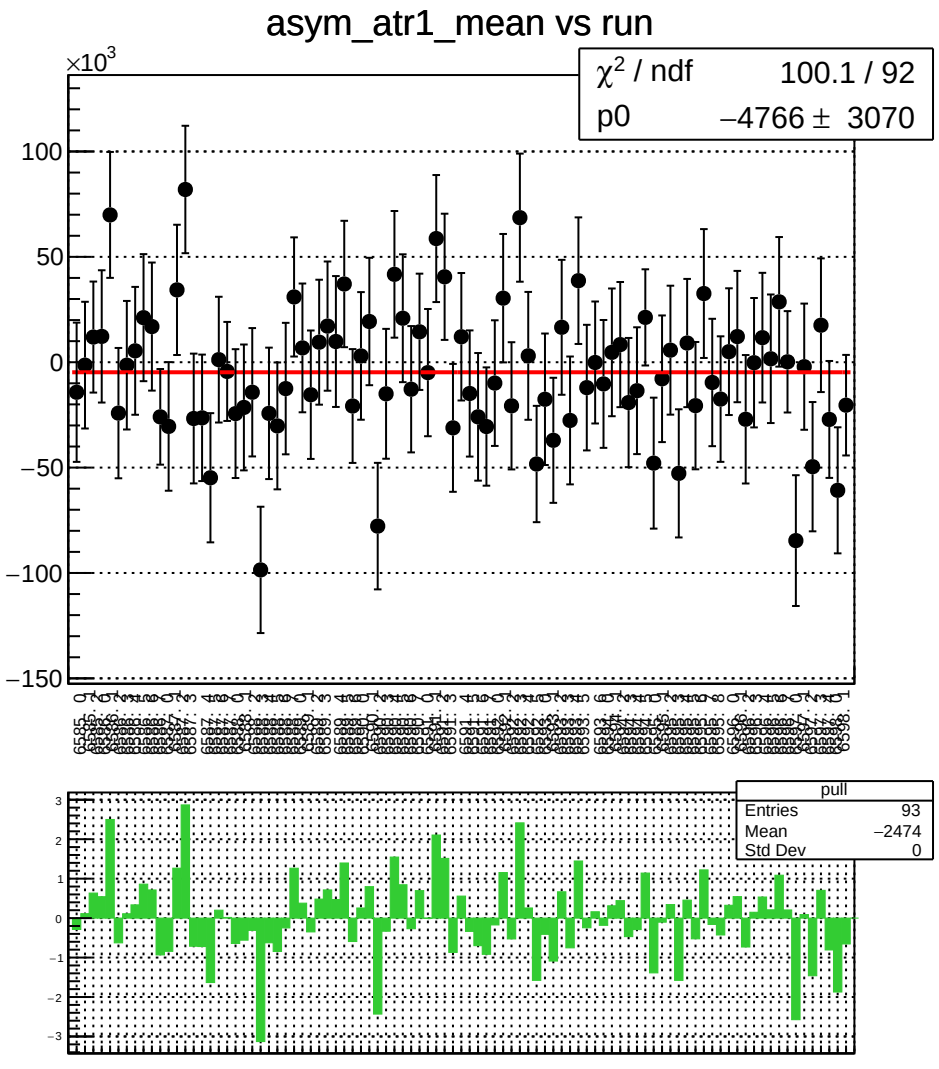

pull1D
Entries 93
Mean 0.0001817
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

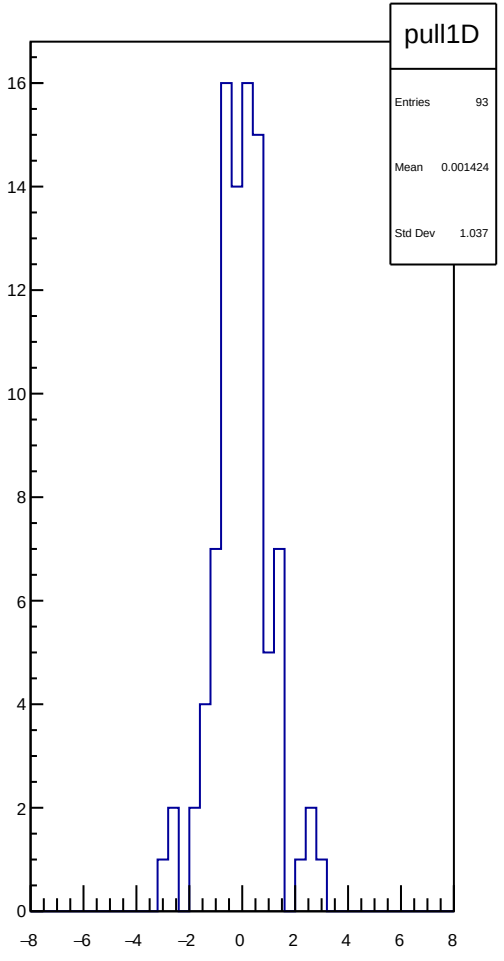

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 110 / 92
p0 2706 ± 2.034
2850
2800
2750
2700
2650

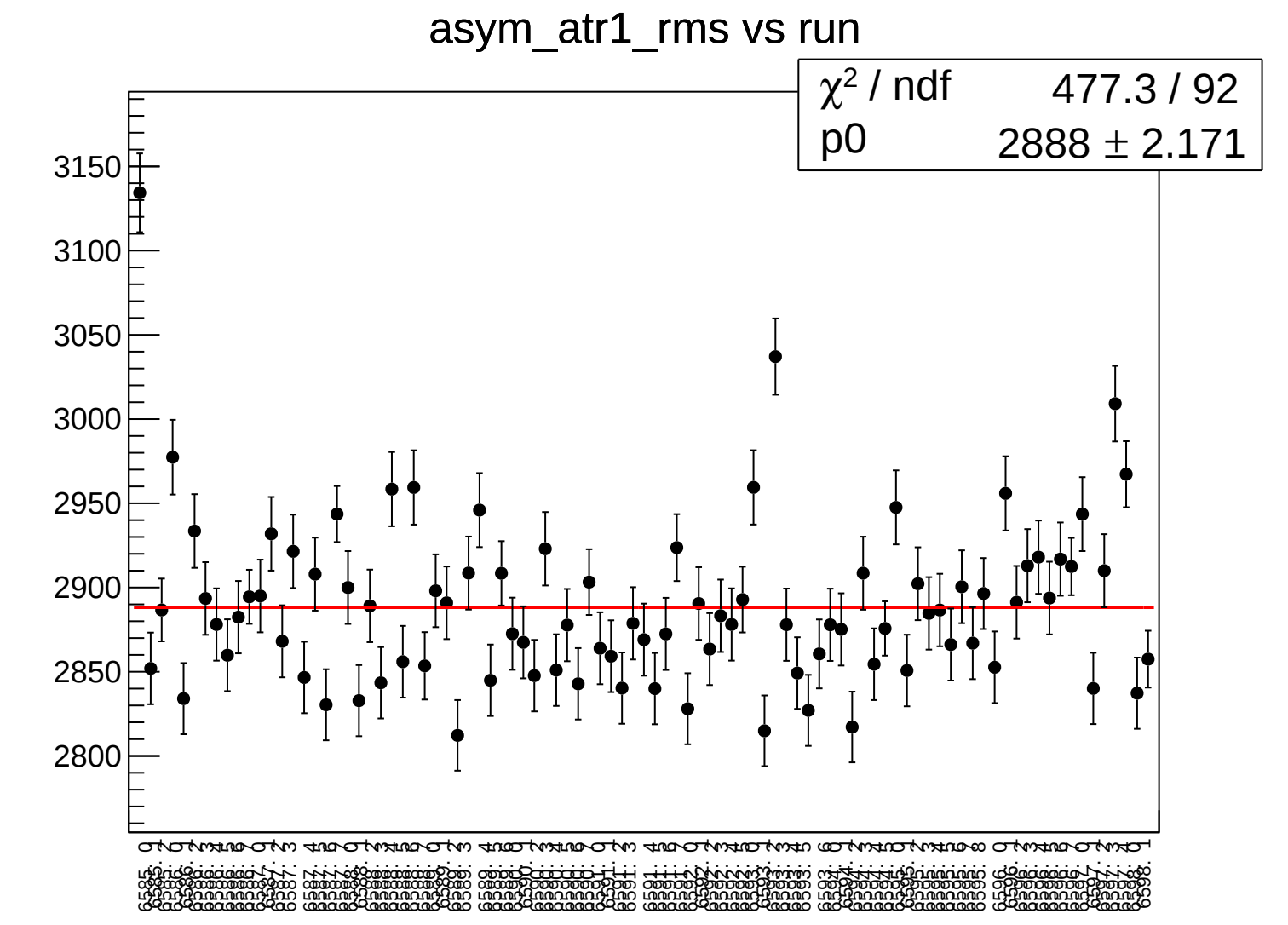

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 105.2 / 92
p0 450 ± 1052
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1540
Std Dev 0
2
1
0
−1
−2
−3

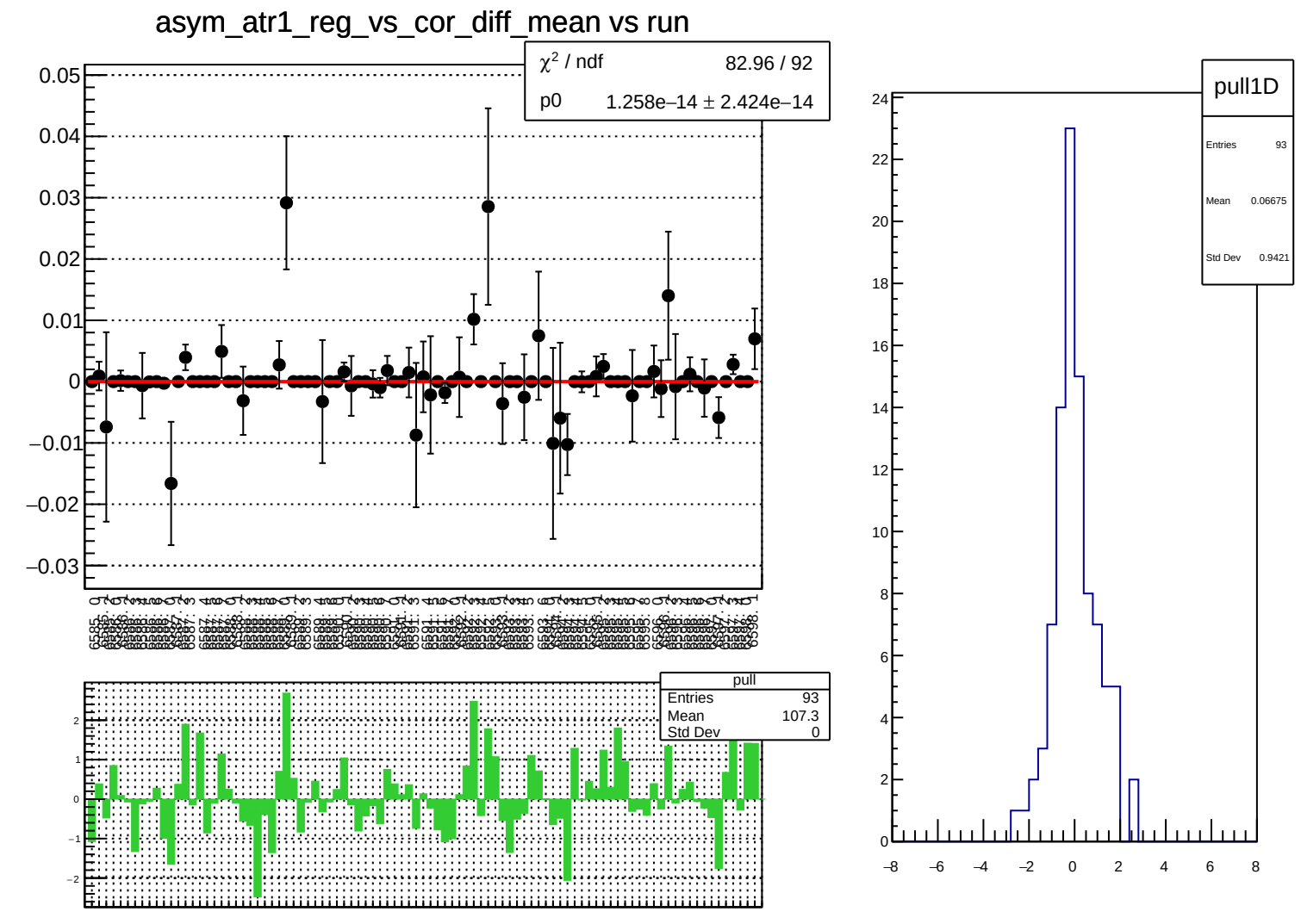

pull1D
Entries 93
Mean 0.0006119
Std Dev 1.064
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

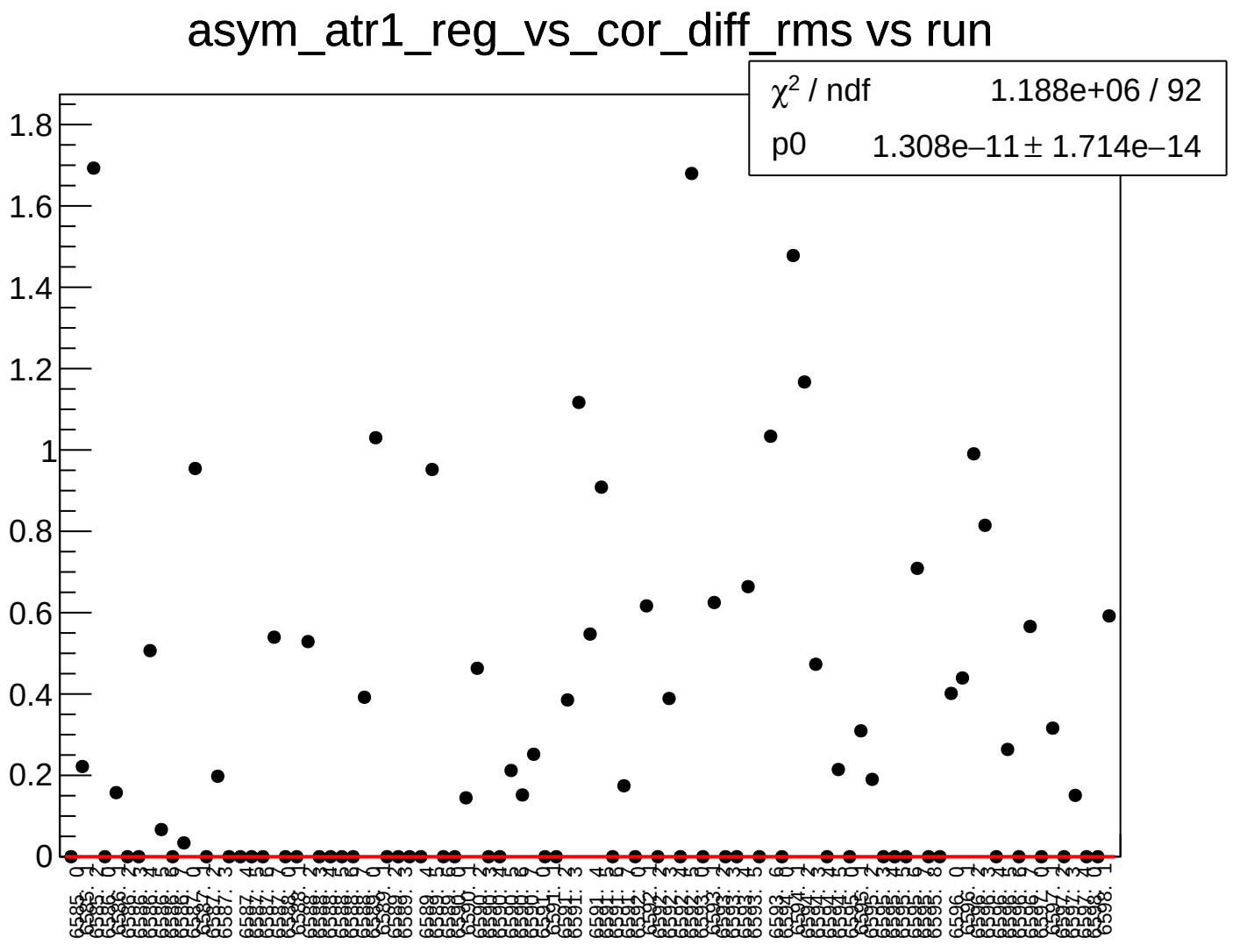

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1.194e+04 / 92
p0 986.9 ± 0.7442
1300
1200
1100
1000
900

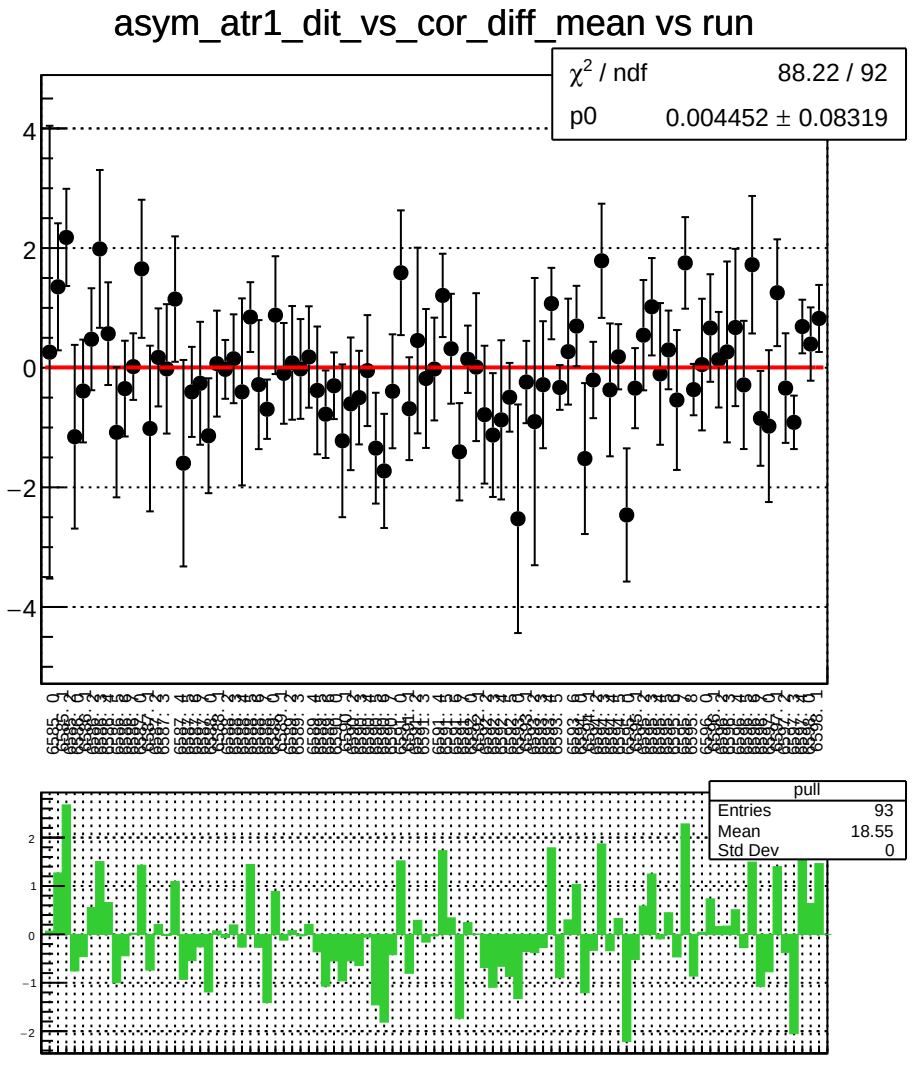

asym_atr1_mean vs run
×10^3
χ² / ndf 100.1 / 92
p0 −4766 ± 3070
100
50
0
−50
−100
−150
pull
Entries 93
Mean −2474
Std Dev 0
3
2
1
0
−1
−2
−3

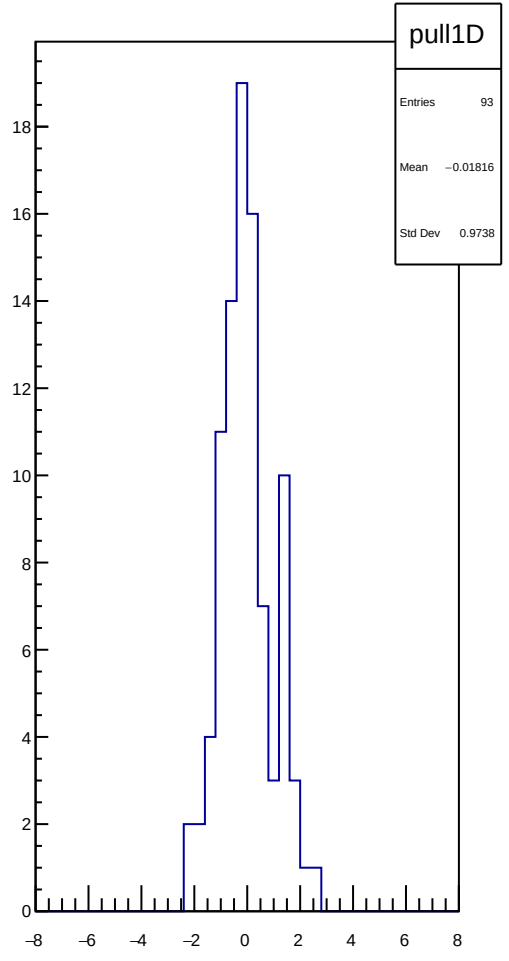

pull1D
Entries 93
Mean 0.001424
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

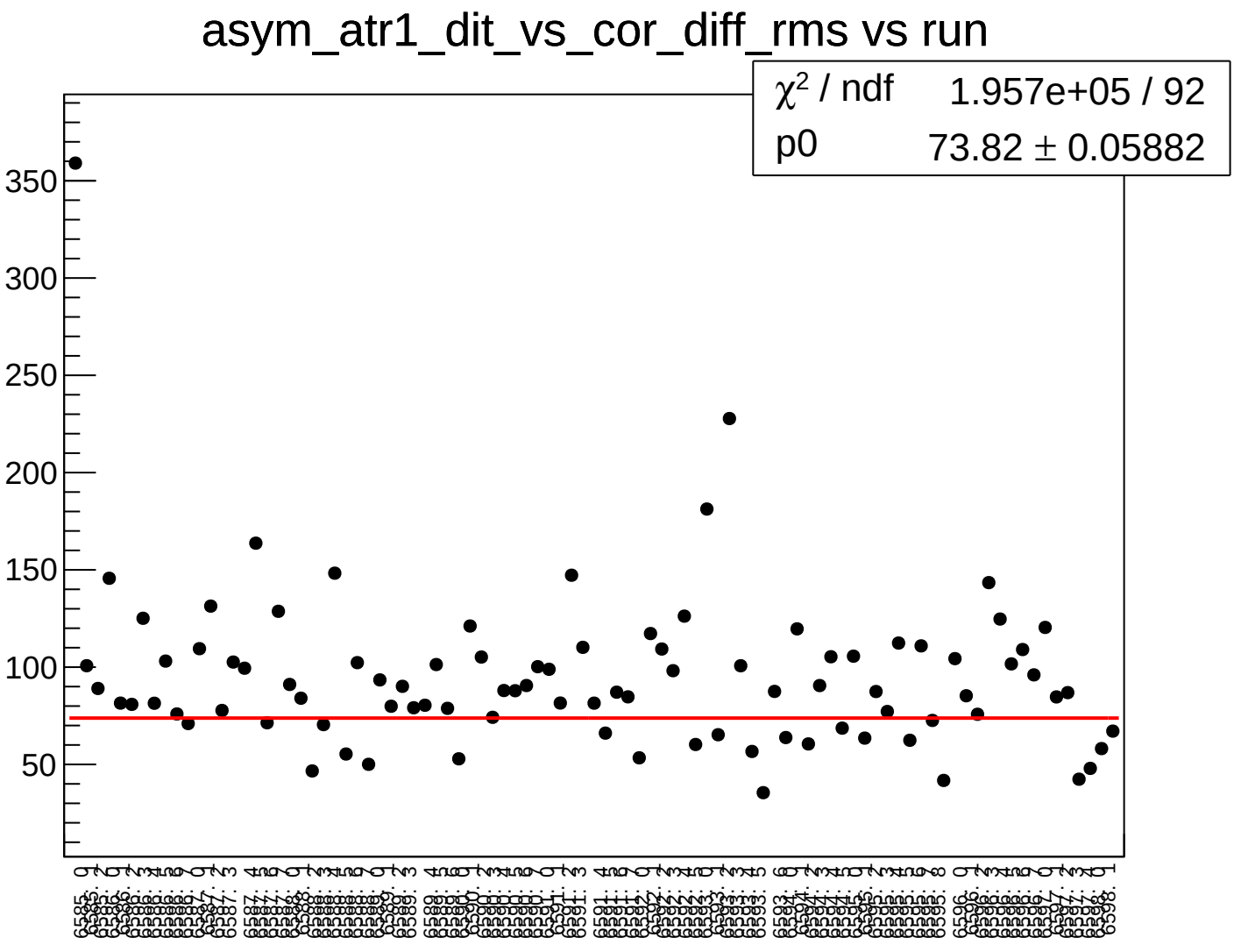

asym_atr1_rms vs run
χ^2 / ndf 477.3 / 92
p0 2888 ± 2.171
3150
3100
3050
3000
2950
2900
2850
2800

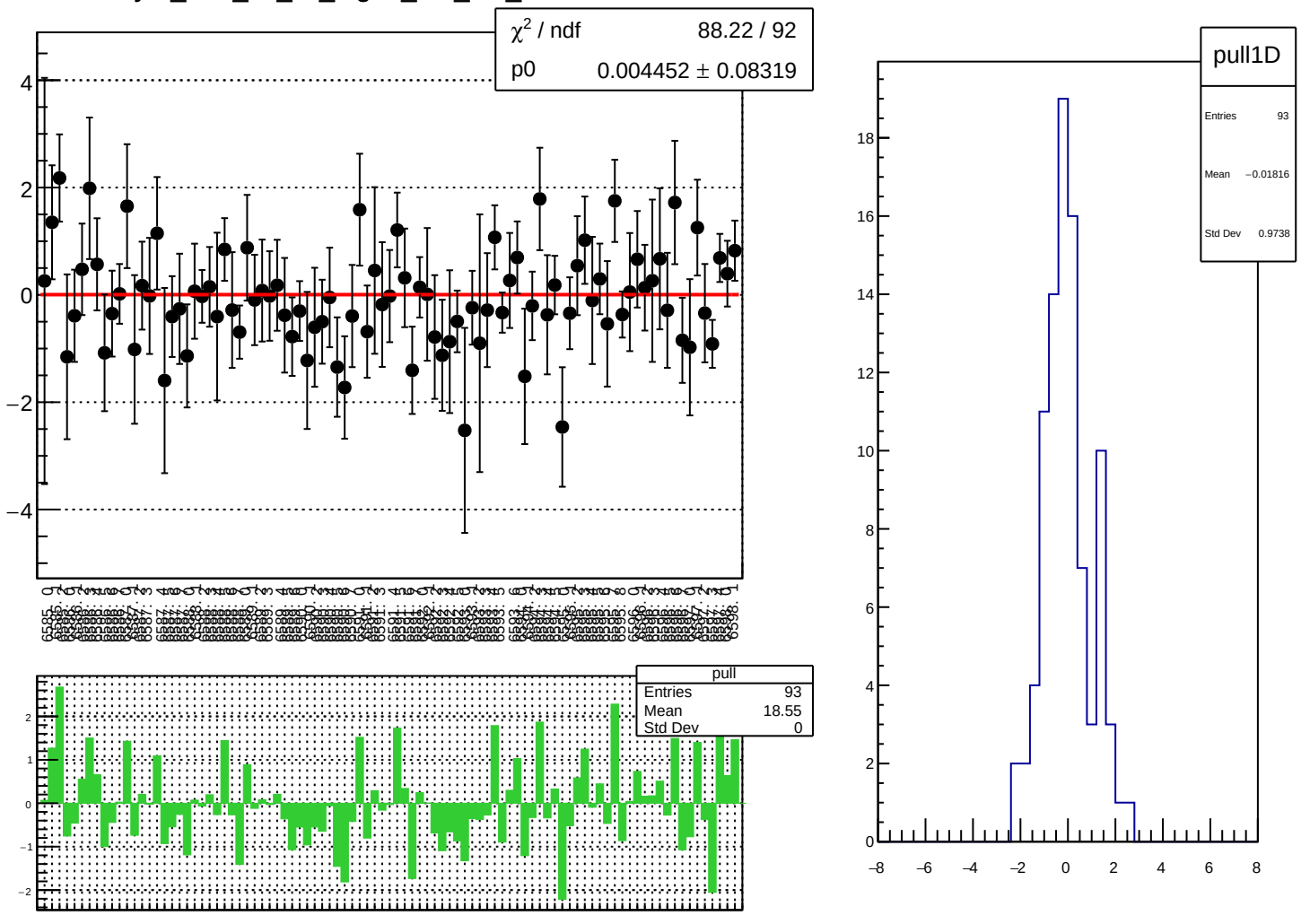

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 82.96 / 92
p0 1.258e−14 ± 2.424e−14
pull
Entries 93
Mean 107.3
Std Dev 0
pull1D
Entries 93
Mean 0.06675
Std Dev 0.9421

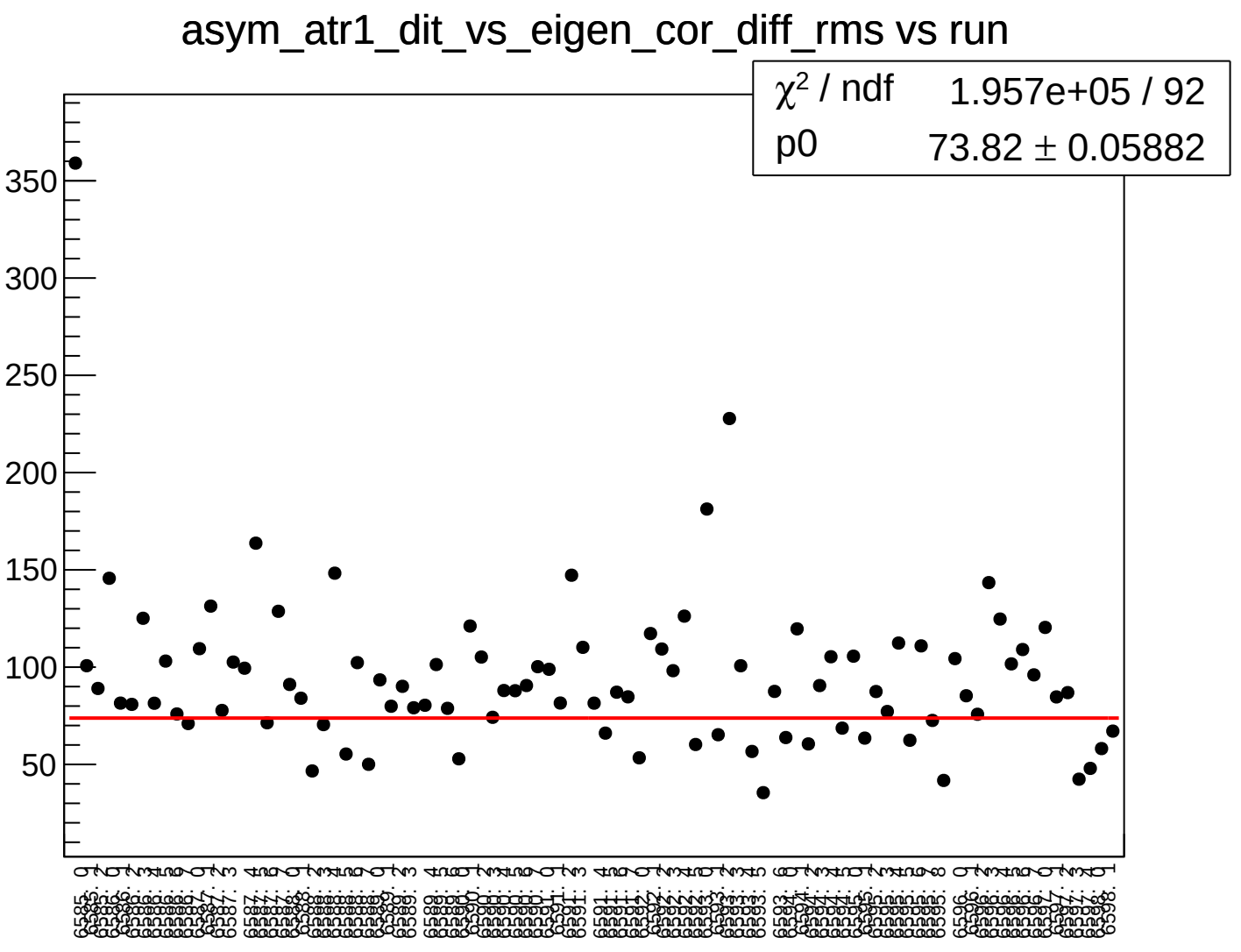

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.188e+06 / 92
p0 1.308e−11 ± 1.714e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

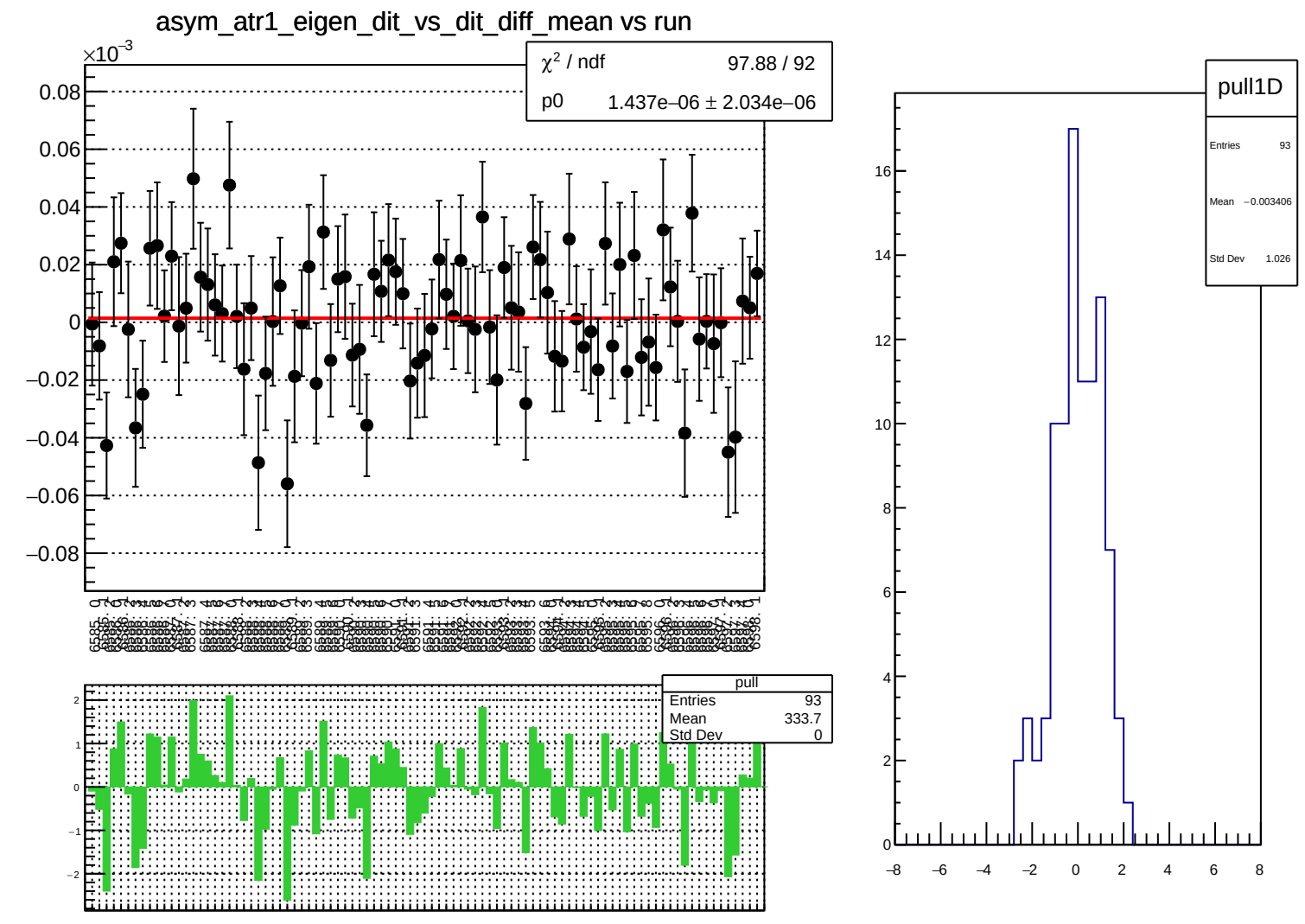

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 88.22 / 92
p0 0.004452 ± 0.08319
pull
Entries 93
Mean 18.55
Std Dev 0

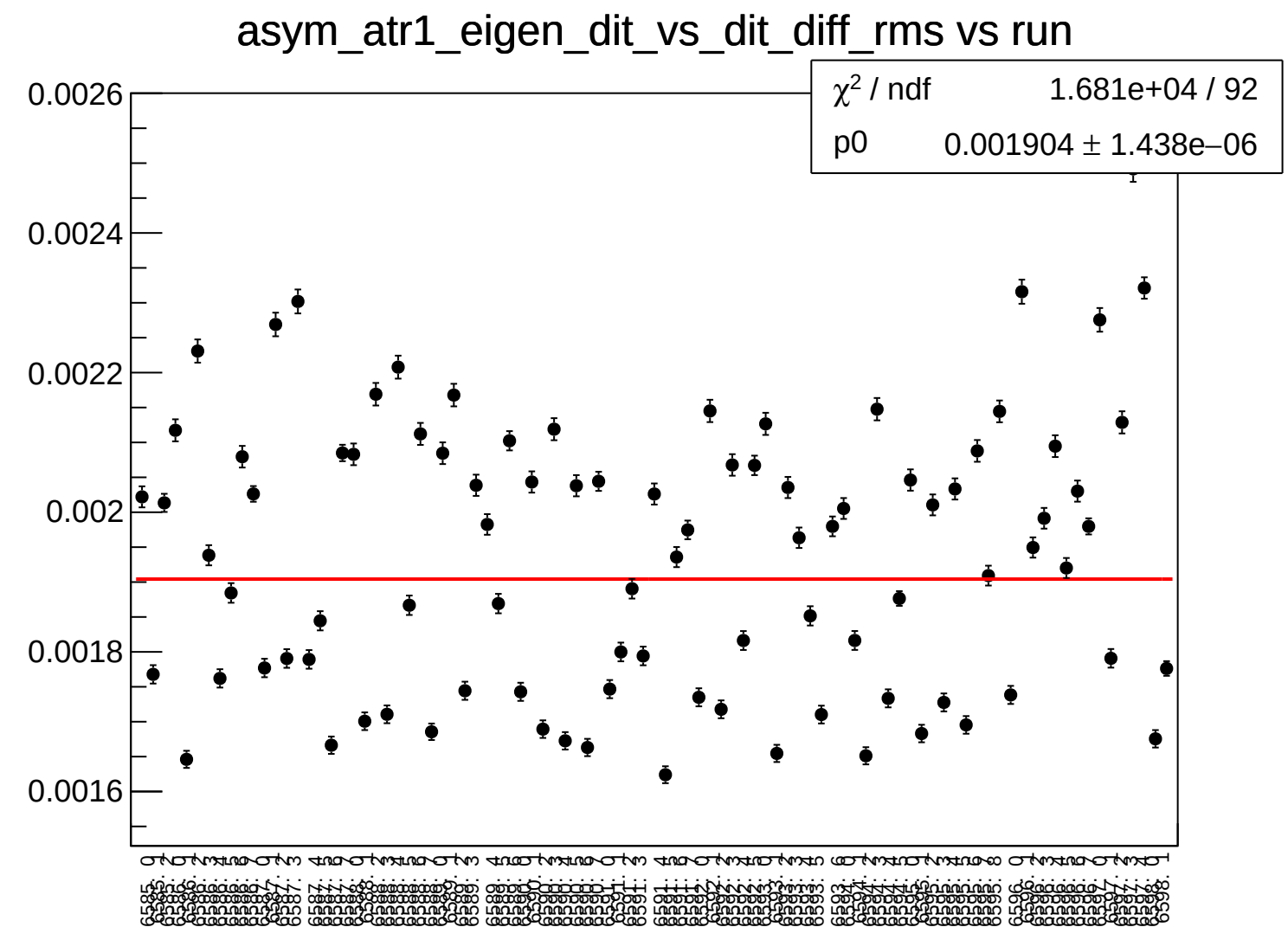

pull1D
Entries 93
Mean −0.01816
Std Dev 0.9738

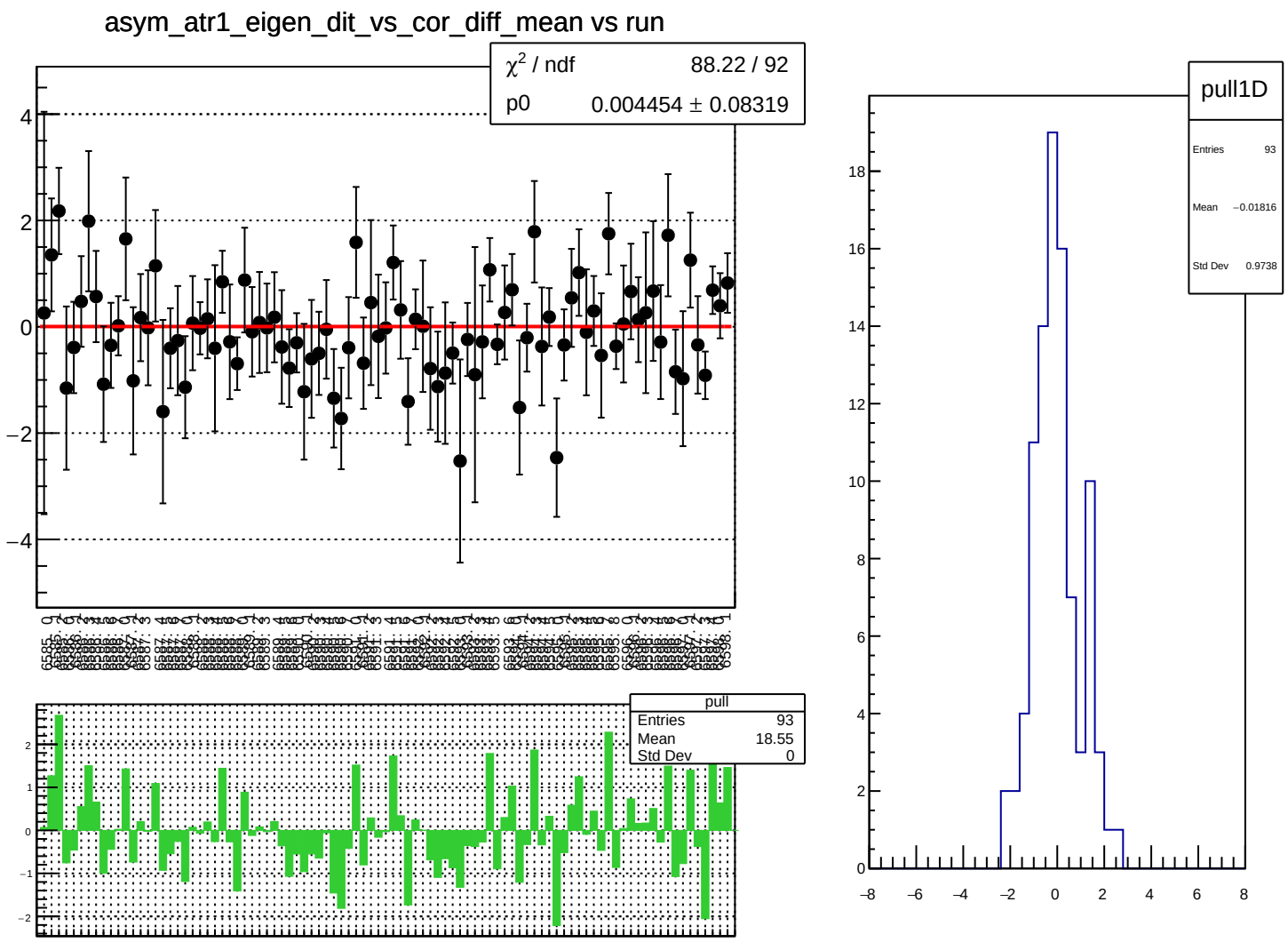

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.957e+05 / 92
p0 73.82 ± 0.05882
350
300
250
200
150
100
50

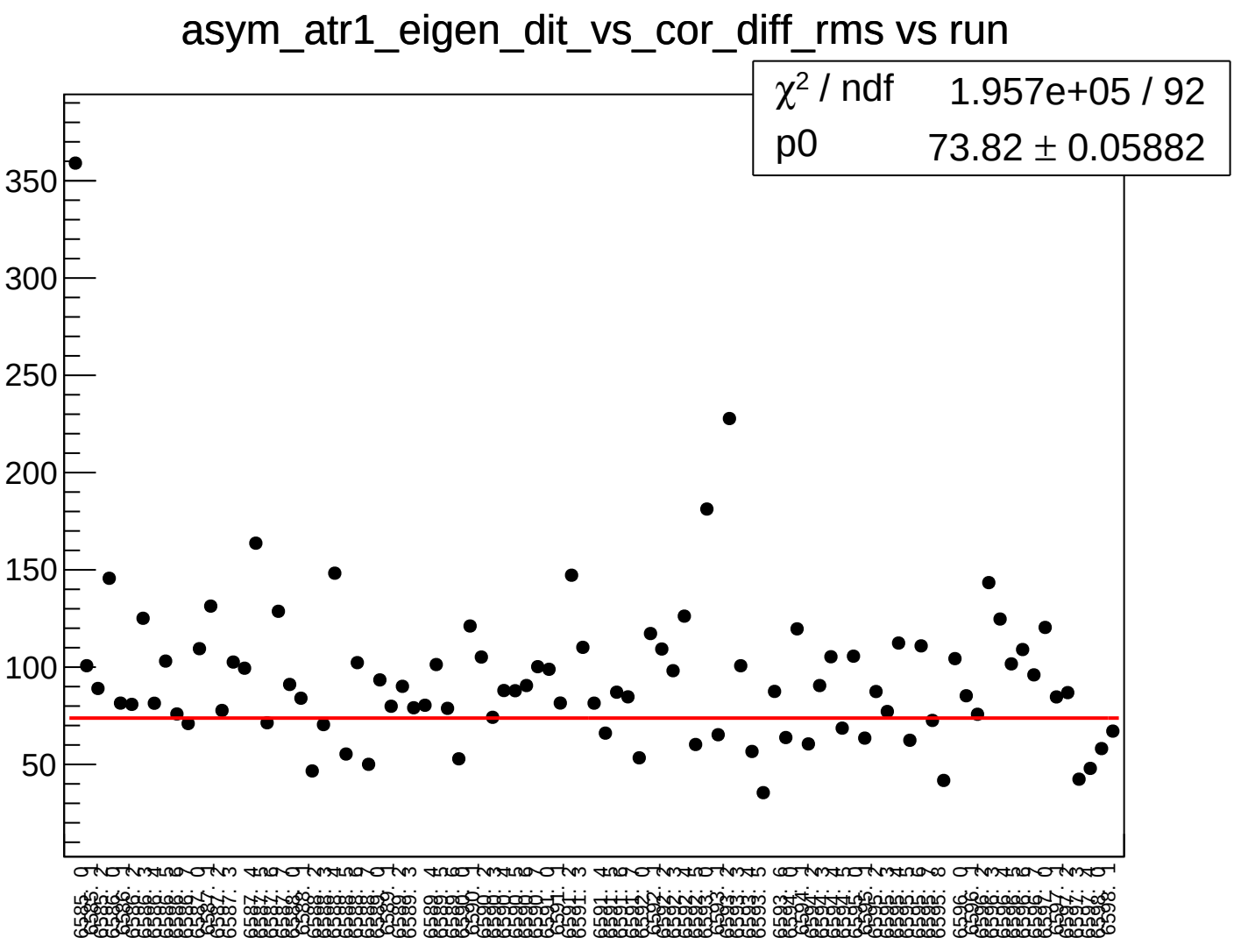

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.22 / 92
p0 0.004452 ± 0.08319
pull
Entries 93
Mean 18.55
Std Dev 0
pull1D
Entries 93
Mean −0.01816
Std Dev 0.9738

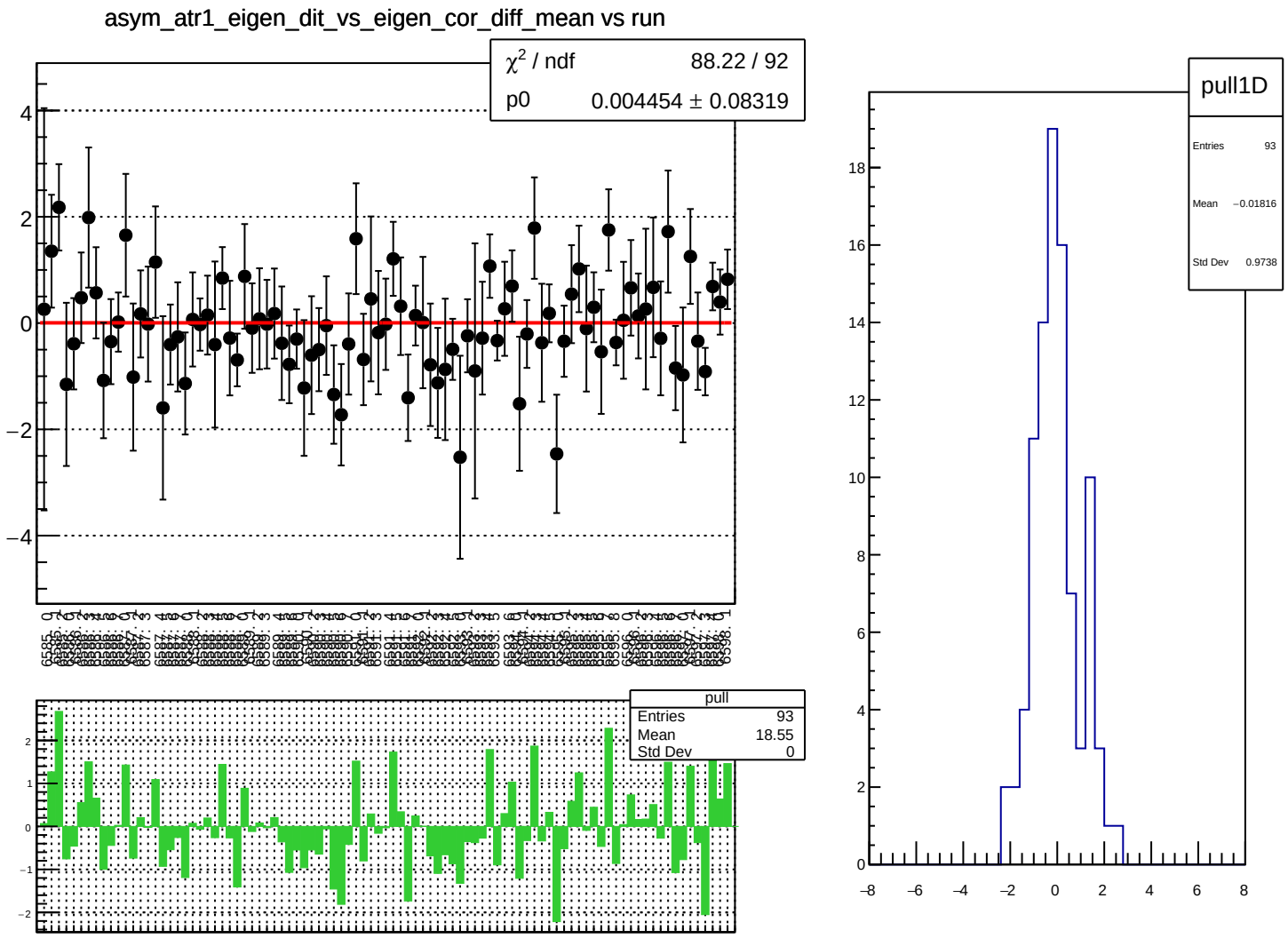

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.957e+05 / 92
p0 73.82 ± 0.05882
350
300
250
200
150
100
50

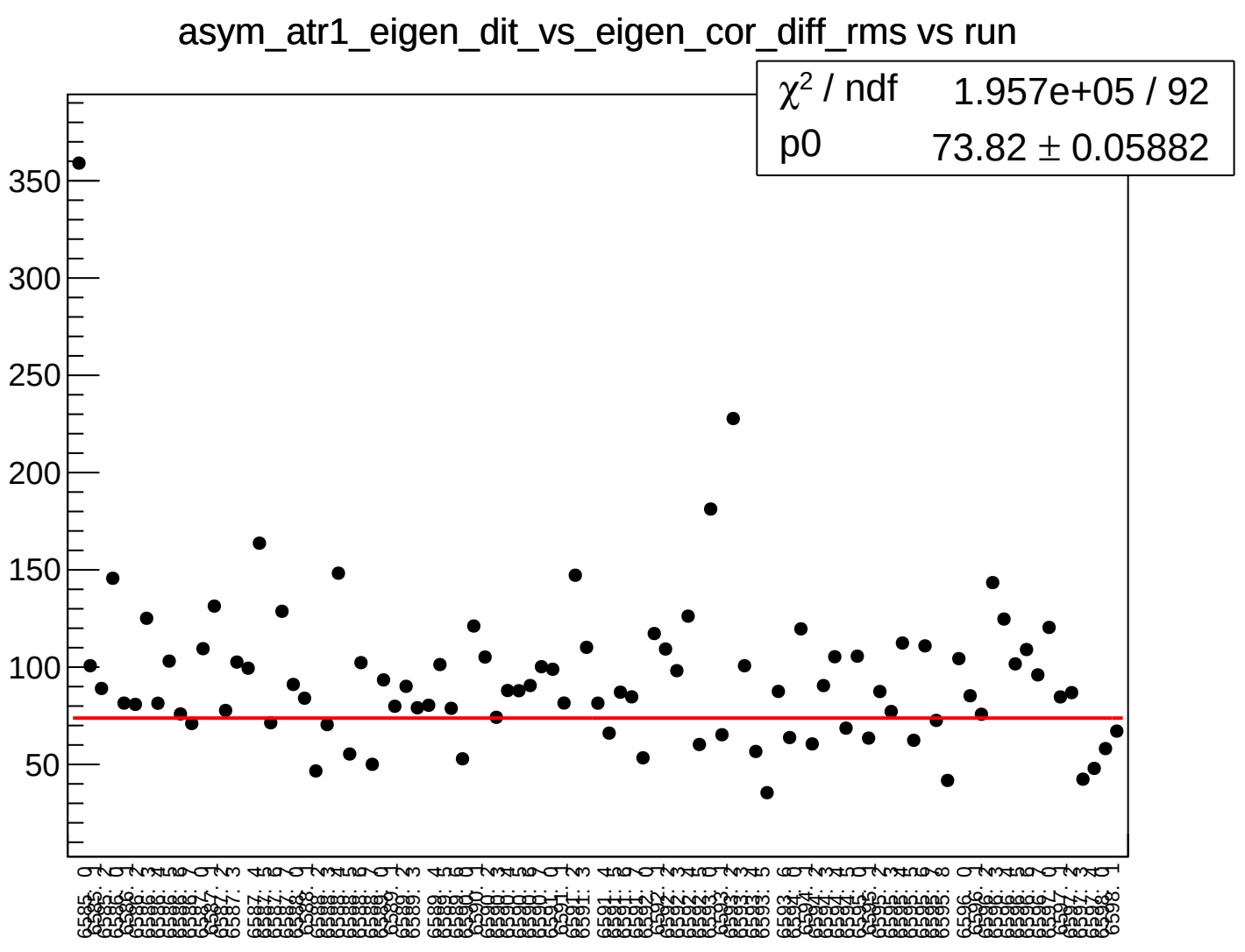

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.88 / 92
p0 1.437e−06 ± 2.034e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 93
Mean 333.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003406
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

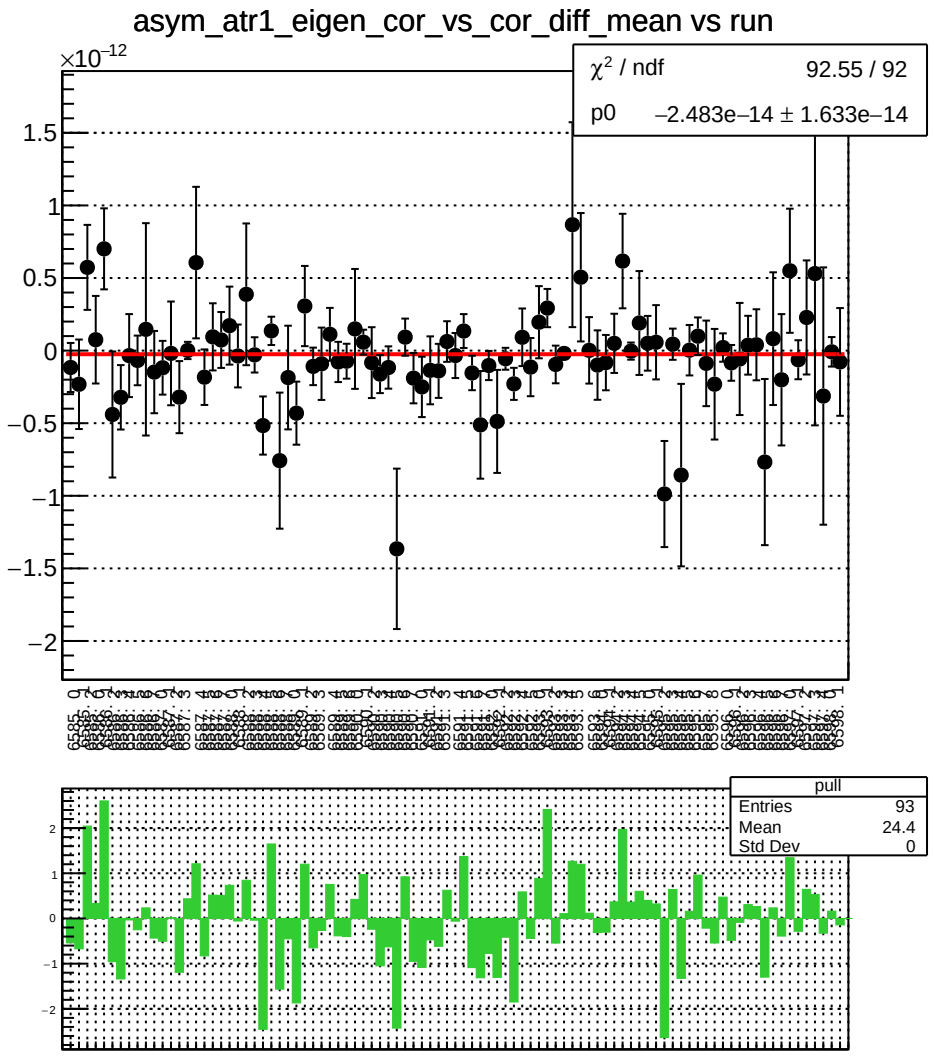

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.681e+04 / 92
p0 0.001904 ± 1.438e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

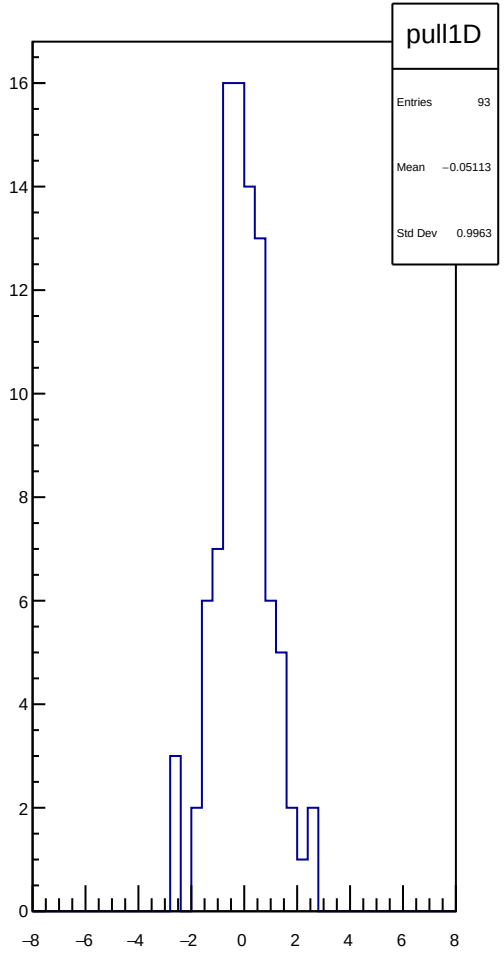

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.22 / 92
p0 0.004454 ± 0.08319
pull
Entries 93
Mean 18.55
Std Dev 0
pull1D
Entries 93
Mean −0.01816
Std Dev 0.9738

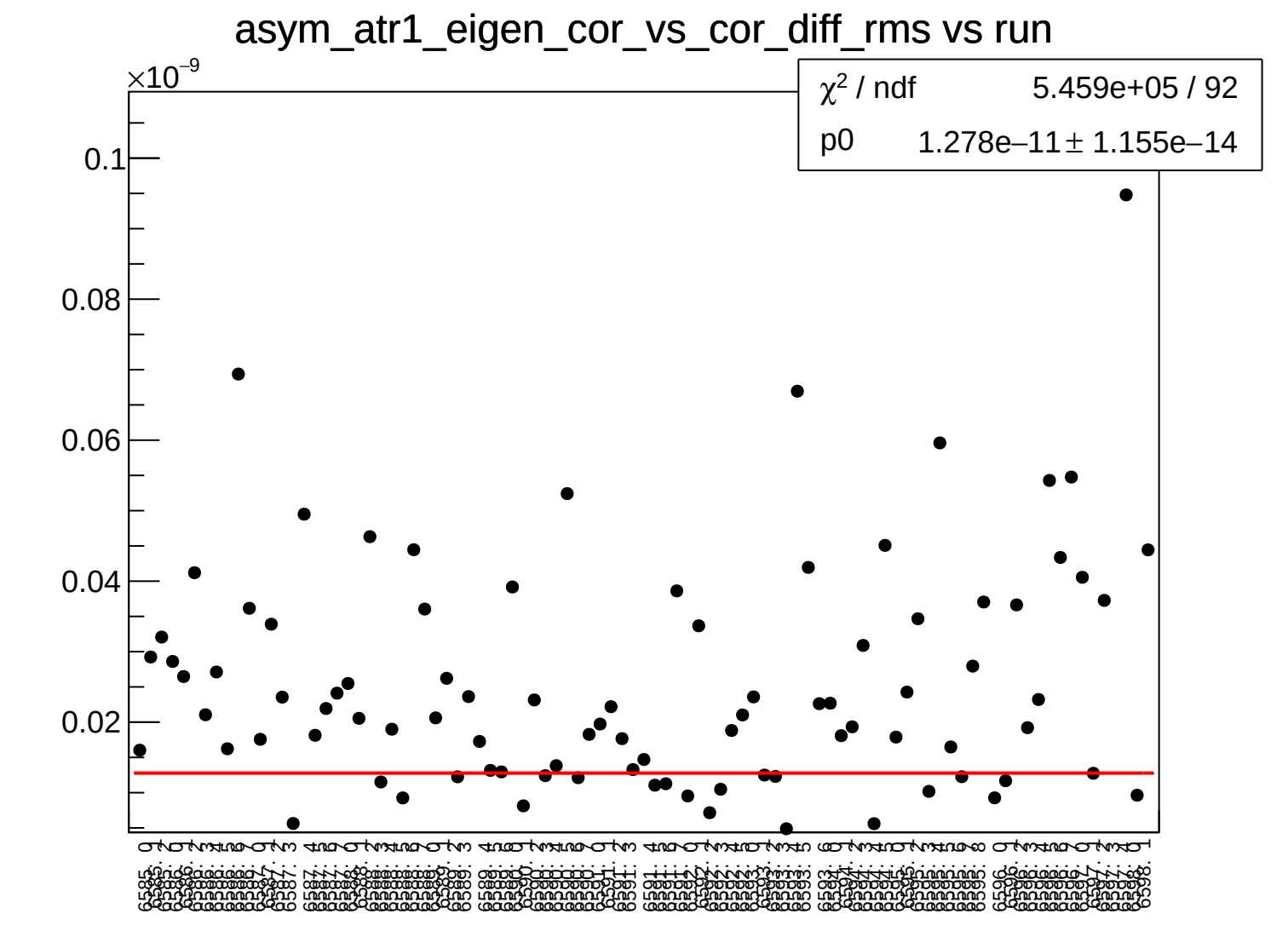

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.957e+05 / 92
p0 73.82 ± 0.05882
350
300
250
200
150
100
50

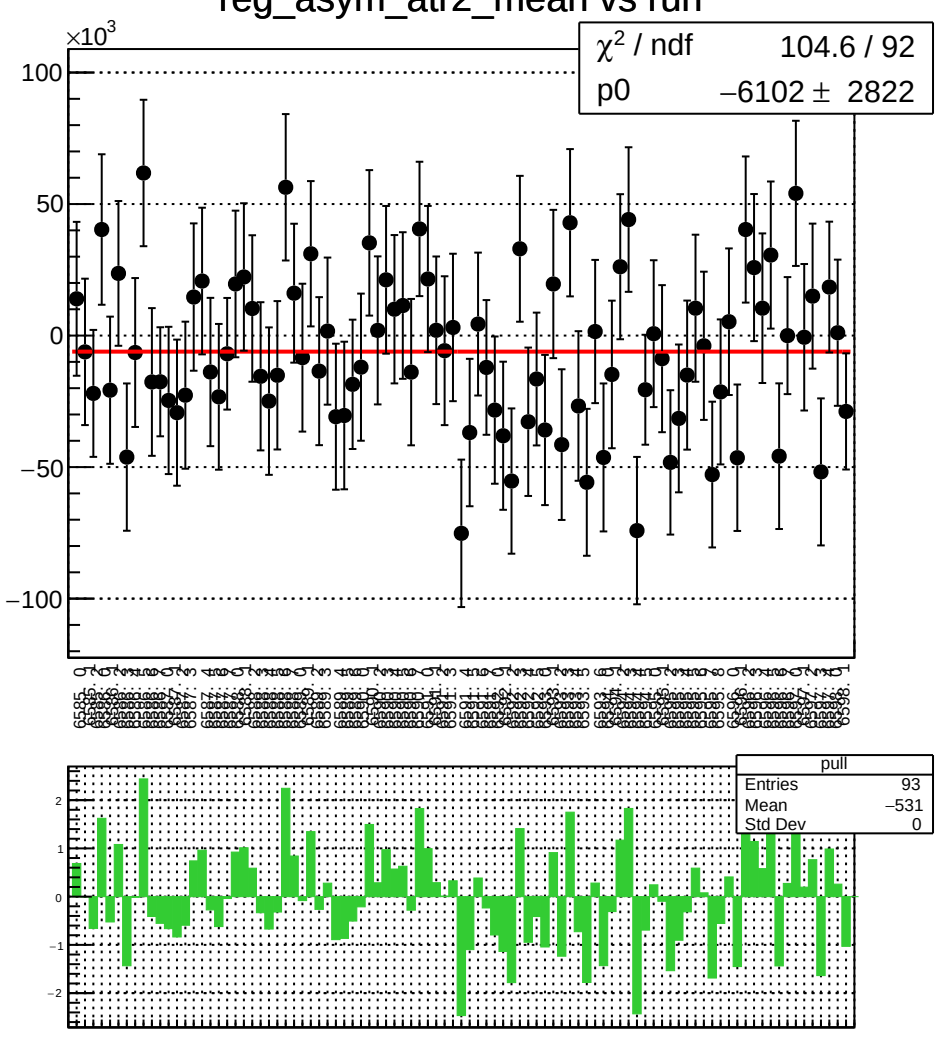

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.22 / 92
p0 0.004454 ± 0.08319
pull
Entries 93
Mean 18.55
Std Dev 0
pull1D
Entries 93
Mean −0.01816
Std Dev 0.9738

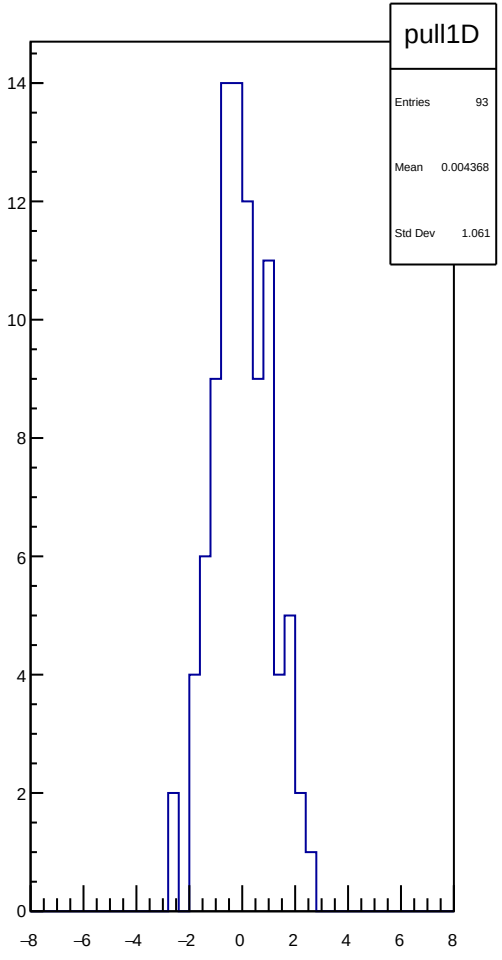

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.957e+05 / 92
p0 73.82 ± 0.05882
350
300
250
200
150
100
50

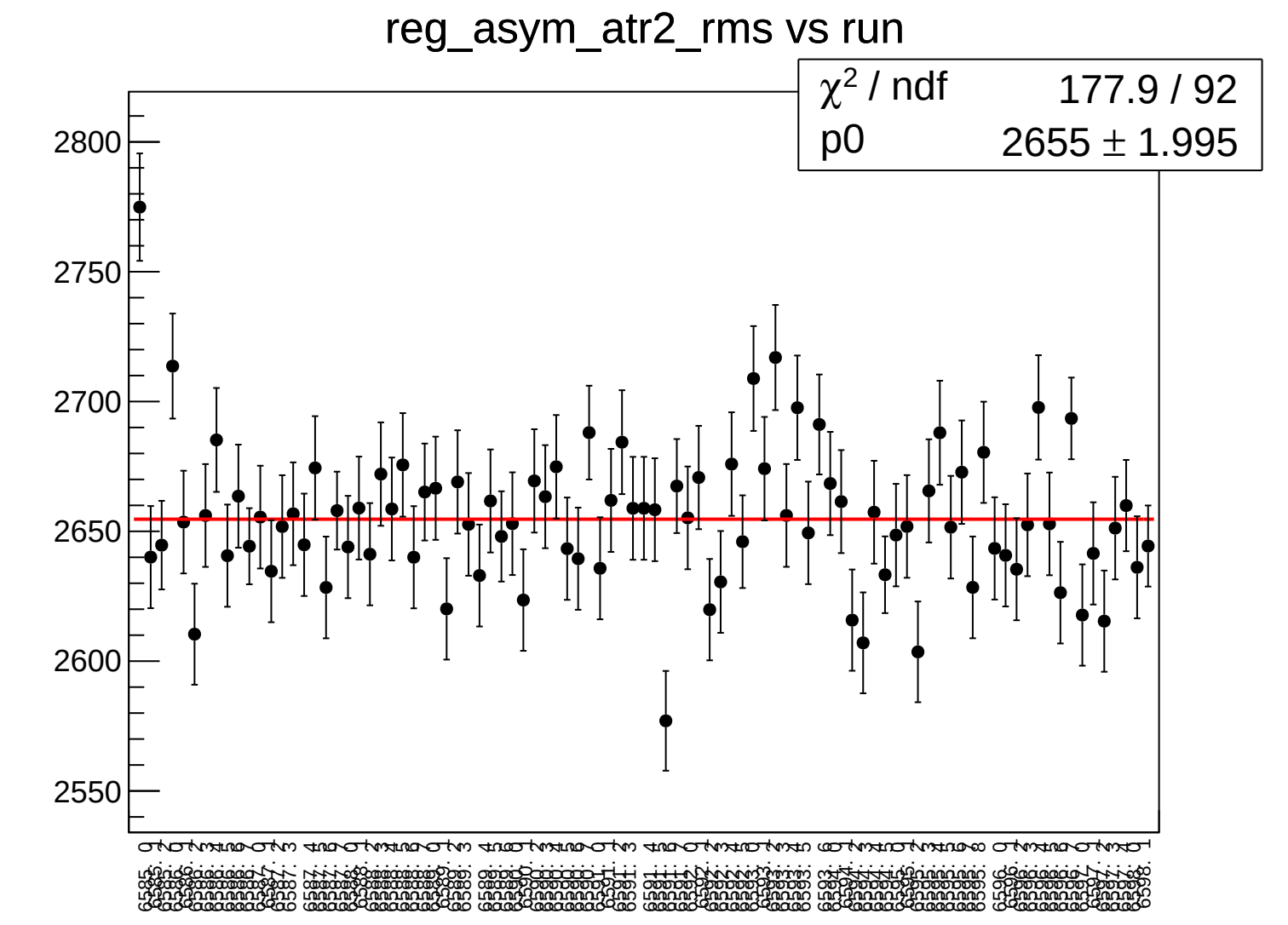

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.55 / 92
p0 −2.483e−14 ± 1.633e−14
pull
Entries 93
Mean 24.4
Std Dev 0

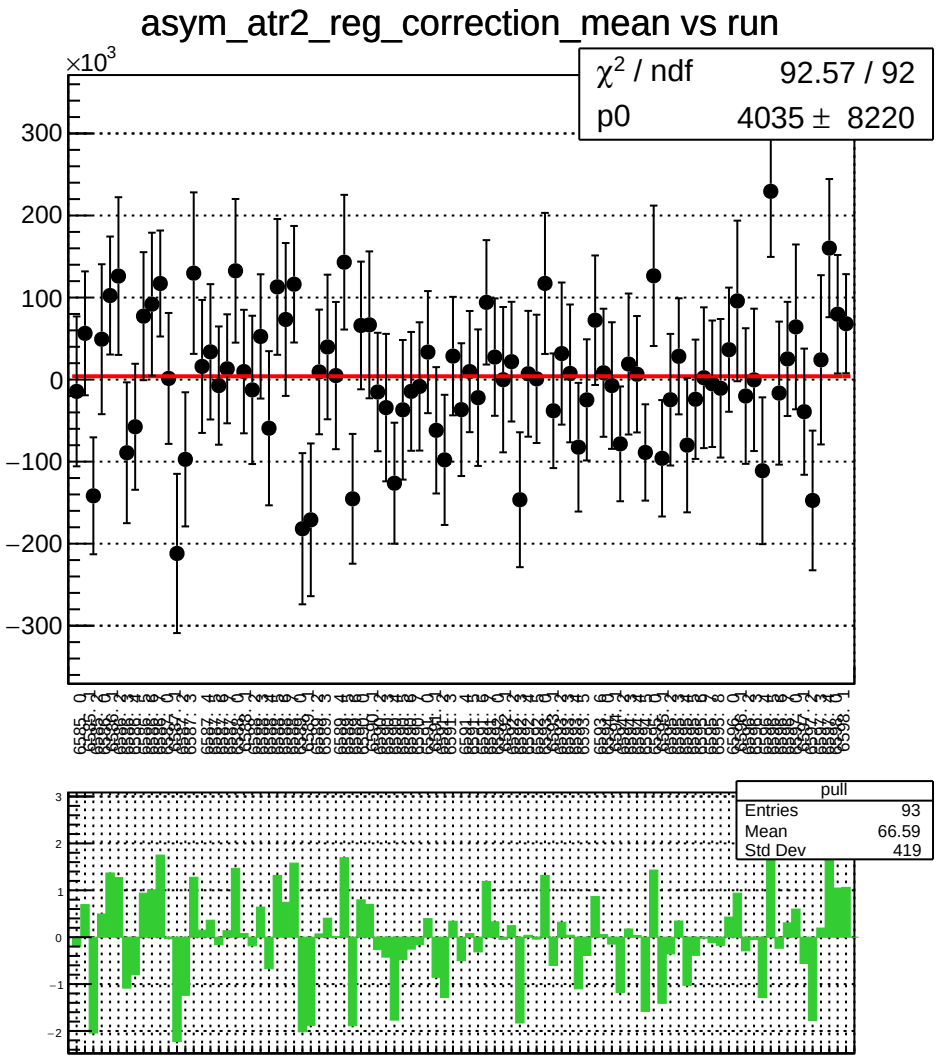

pull1D
Entries 93
Mean −0.05113
Std Dev 0.9963

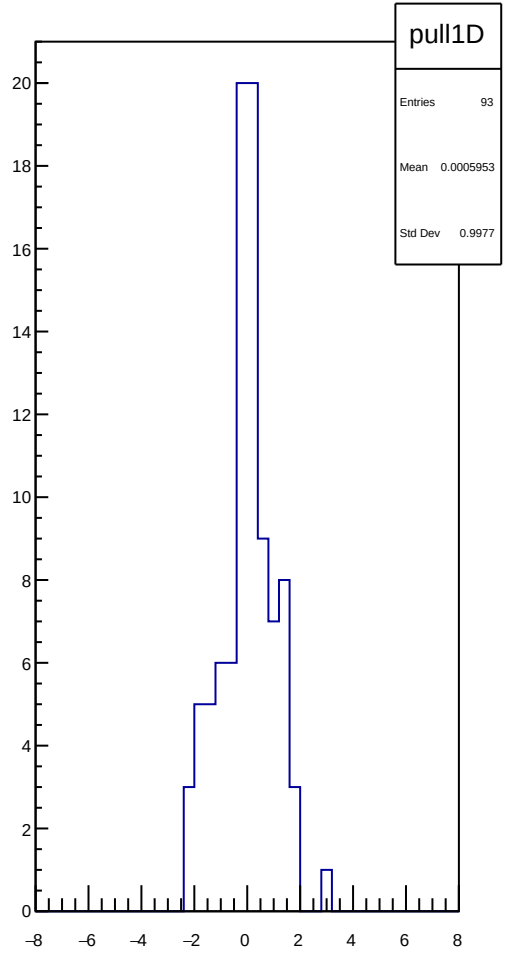

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.459e+05 / 92
p0 1.278e−11 ± 1.155e−14
0.1
0.08
0.06
0.04
0.02

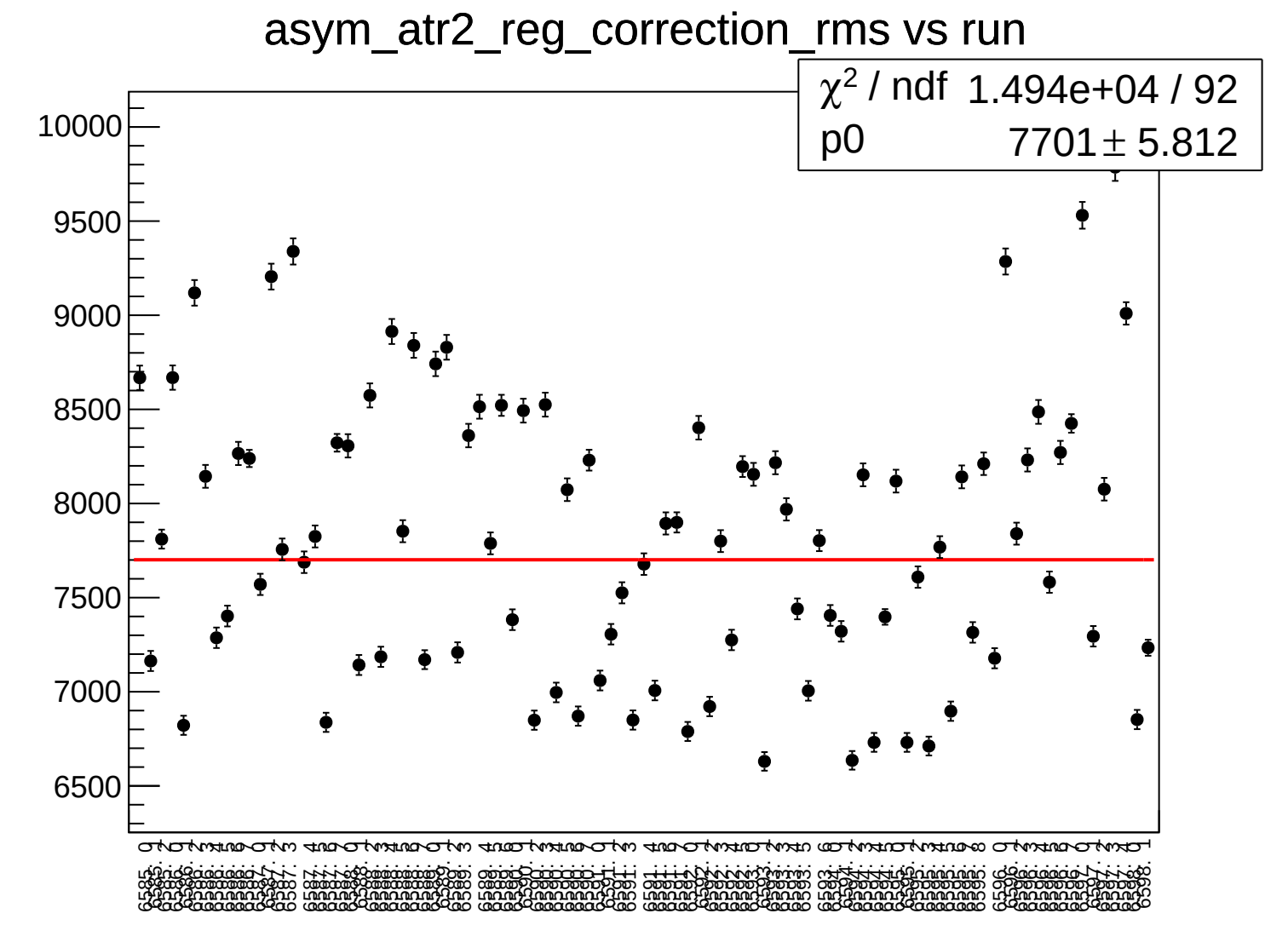

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 104.6 / 92
p0 −6102 ± 2822
100
50
0
−50
−100
pull
Entries 93
Mean −531
Std Dev 0
2
1
0
−1
−2

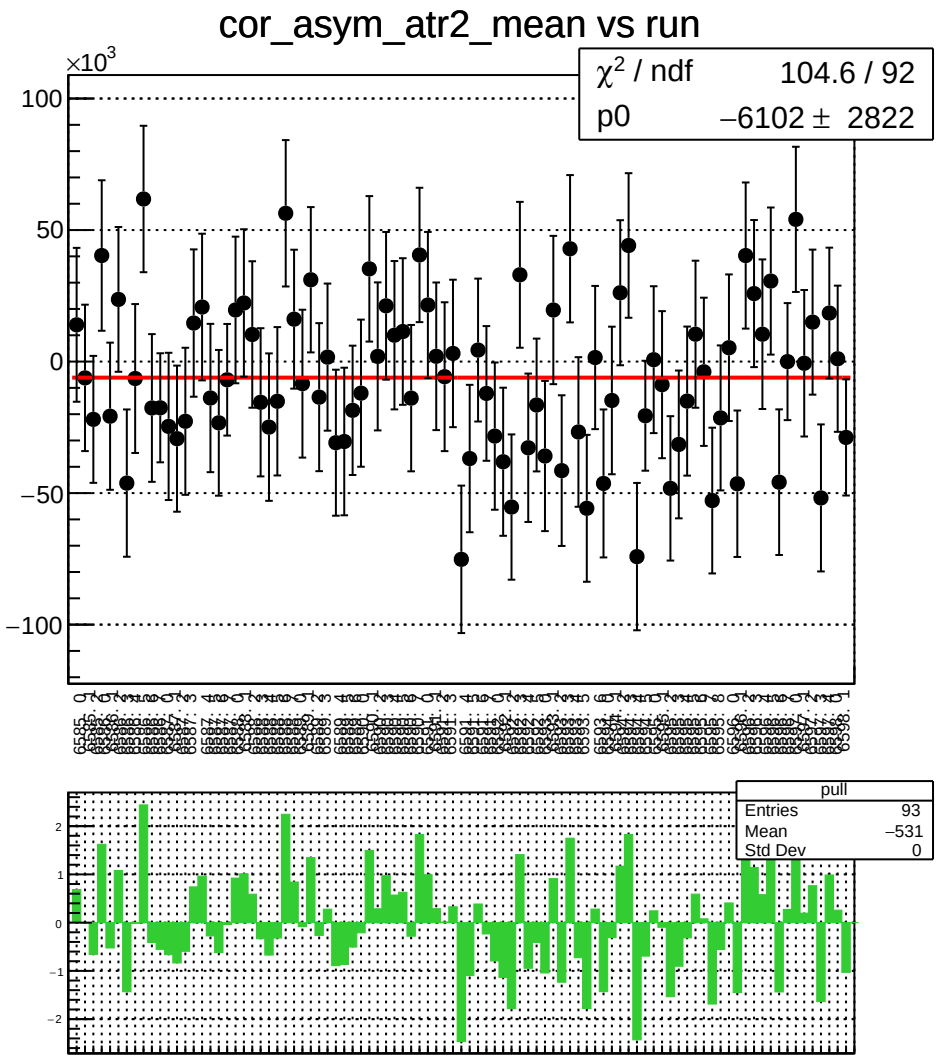

pull1D
Entries 93
Mean 0.004368
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

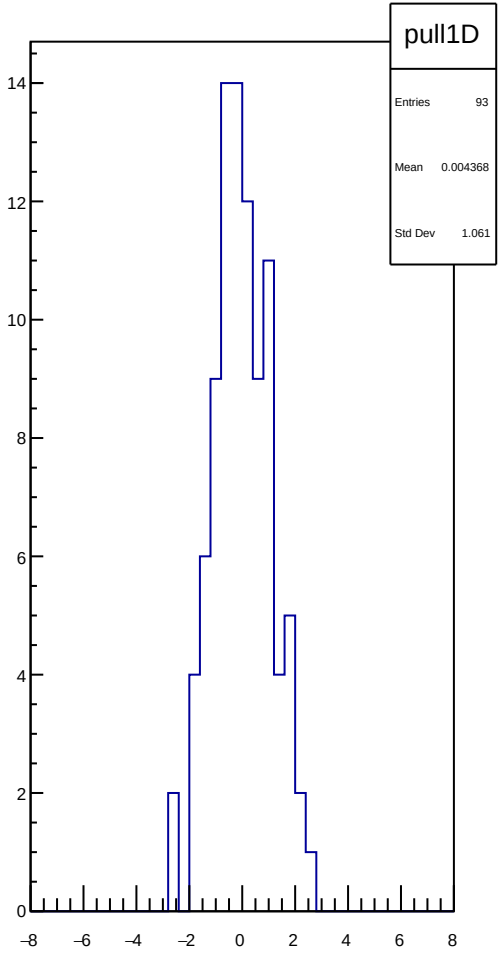

reg_asym_atr2_rms vs run
χ^2 / ndf 177.9 / 92
p0 2655 ± 1.995
2800
2750
2700
2650
2600
2550

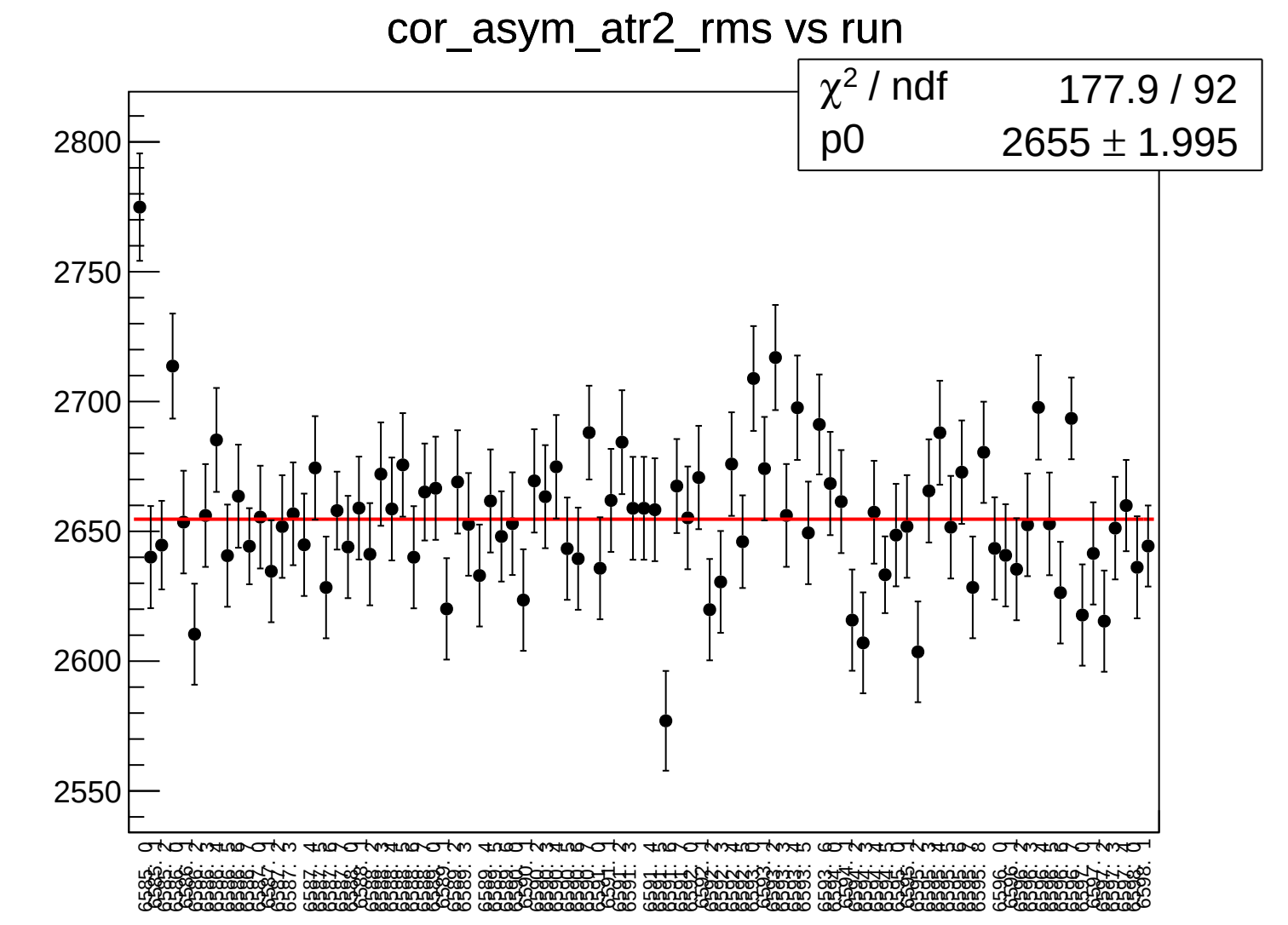

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 92.57 / 92
p0 4035 ± 8220
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 66.59
Std Dev 419
3
2
1
0
−1
−2

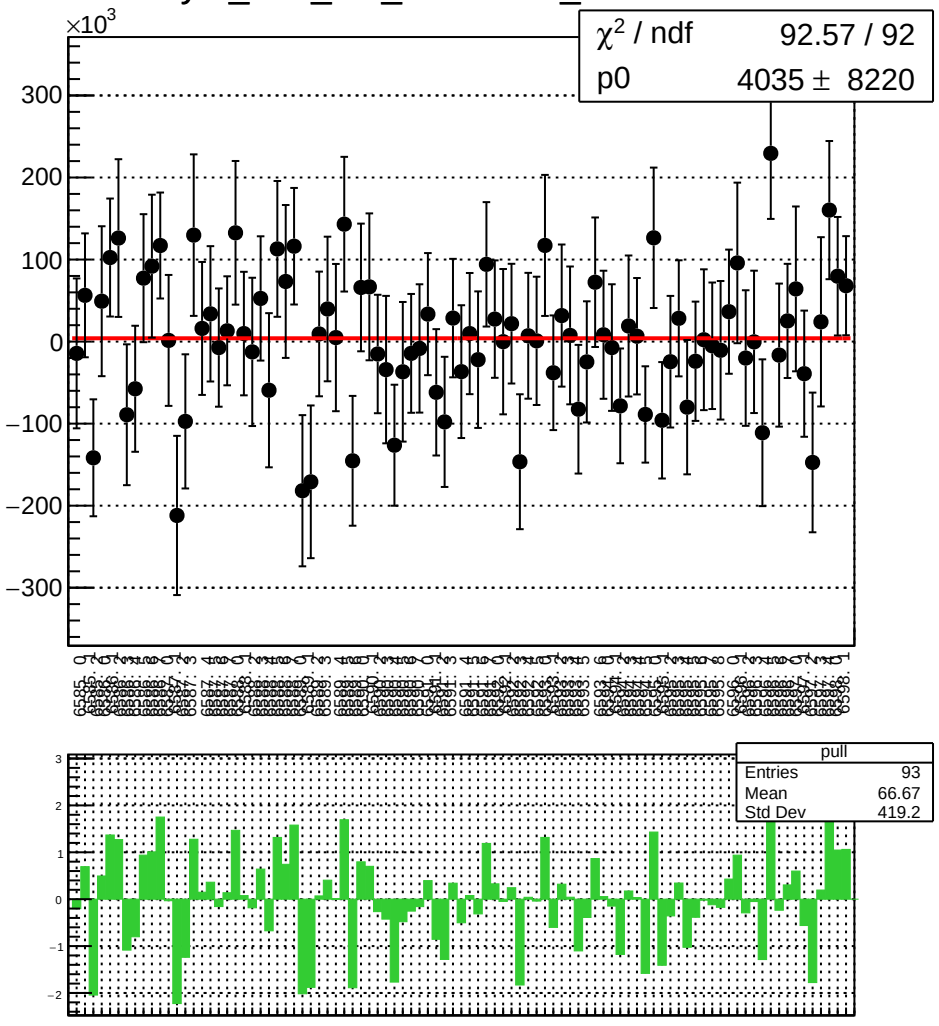

pull1D
Entries 93
Mean 0.0005953
Std Dev 0.9977
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

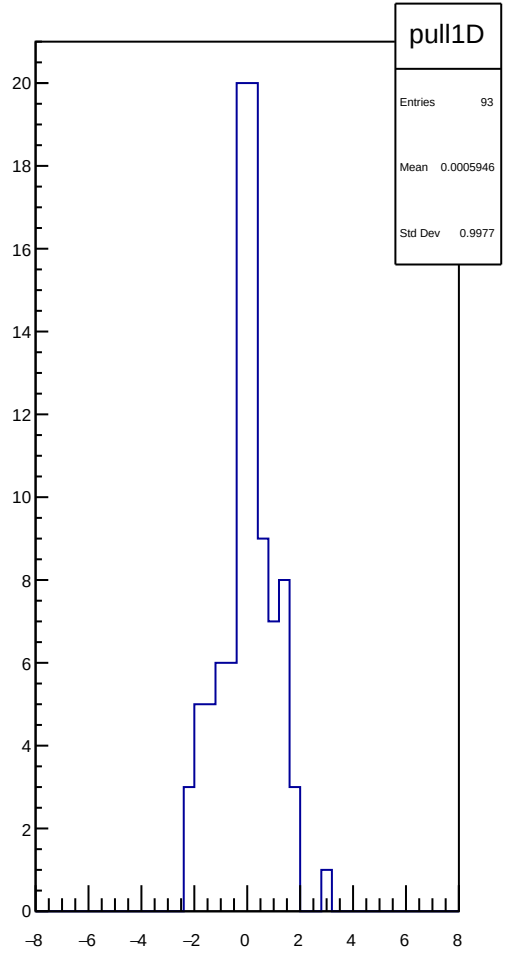

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.494e+04 / 92
p0 7701 ± 5.812
10000
9500
9000
8500
8000
7500
7000
6500


cor_asym_atr2_mean vs run
×10^3
χ² / ndf 104.6 / 92
p0 −6102 ± 2822
100
50
0
−50
−100
pull
Entries 93
Mean −531
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.004368
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr2_rms vs run
χ^2 / ndf 177.9 / 92
p0 2655 ± 1.995
2800
2750
2700
2650
2600
2550


asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 92.57 / 92
p0 4035 ± 8220
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 66.67
Std Dev 419.2
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.0005946
Std Dev 0.9977
20
18
16
14
12
10
8
6
4
2
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−4
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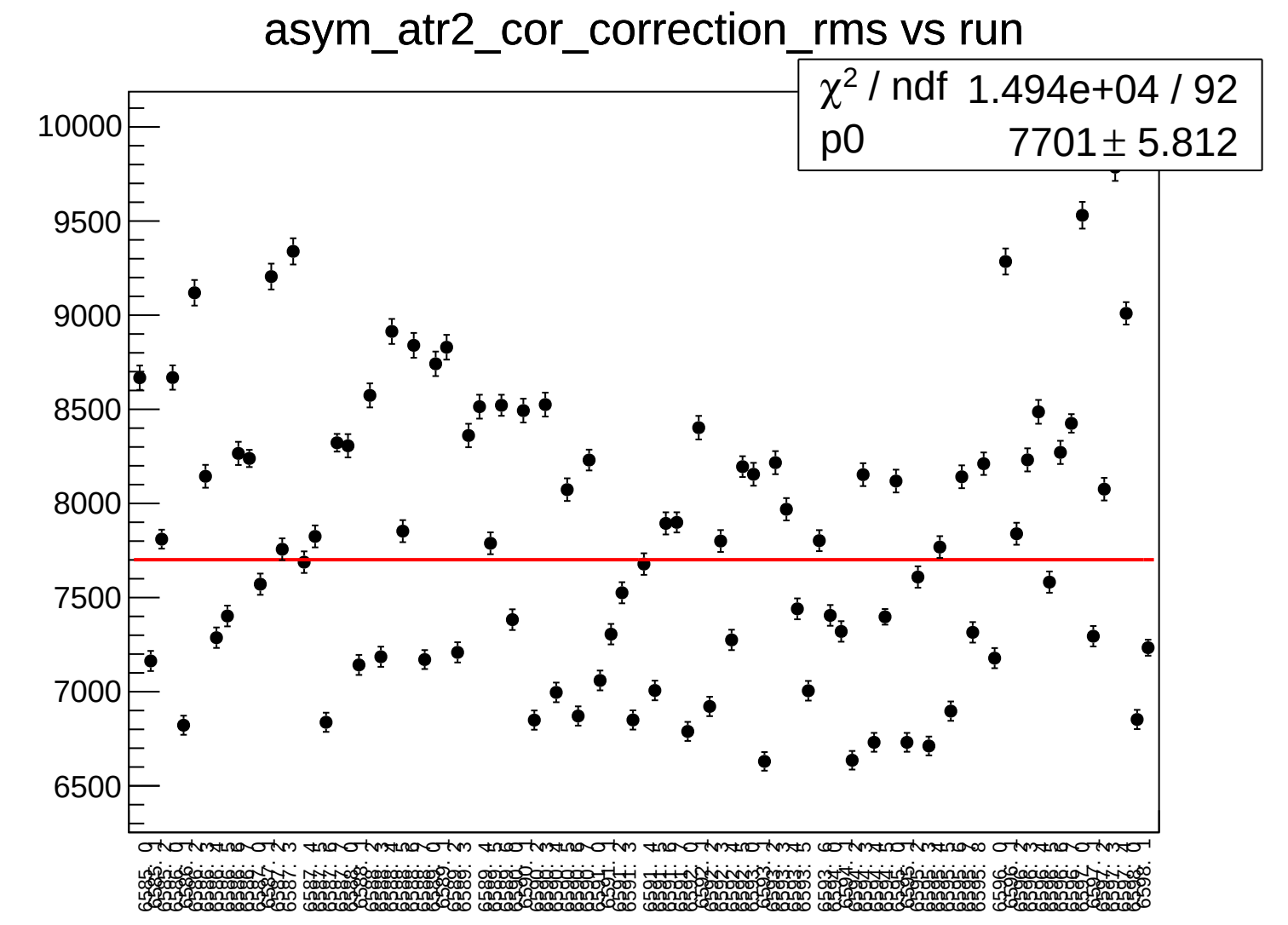
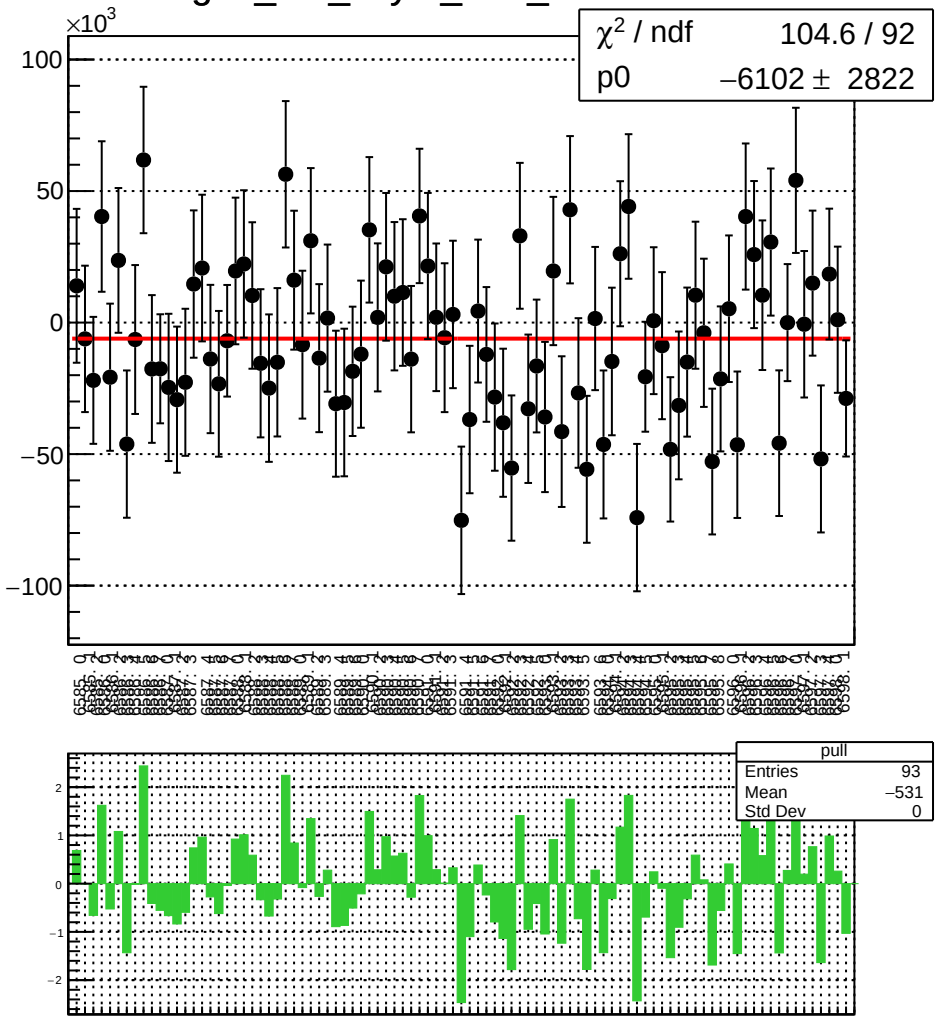
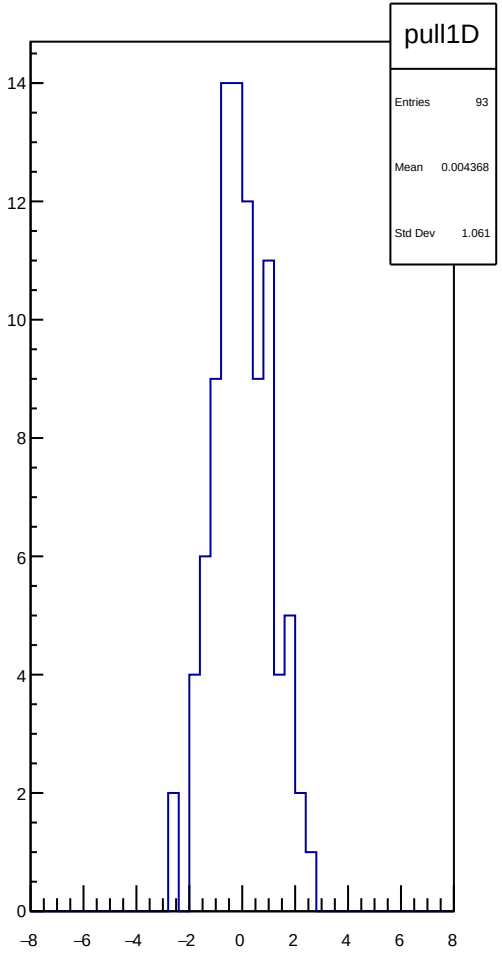
0
2
4
6
8


asym_atr2_cor_correction_rms vs run
χ² / ndf 1.494e+04 / 92
p0 7701 ± 5.812
10000
9500
9000
8500
8000
7500
7000
6500


eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 104.6 / 92
p0 −6102 ± 2822
100
50
0
−50
−100
pull
Entries 93
Mean −531
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.004368
Std Dev 1.061
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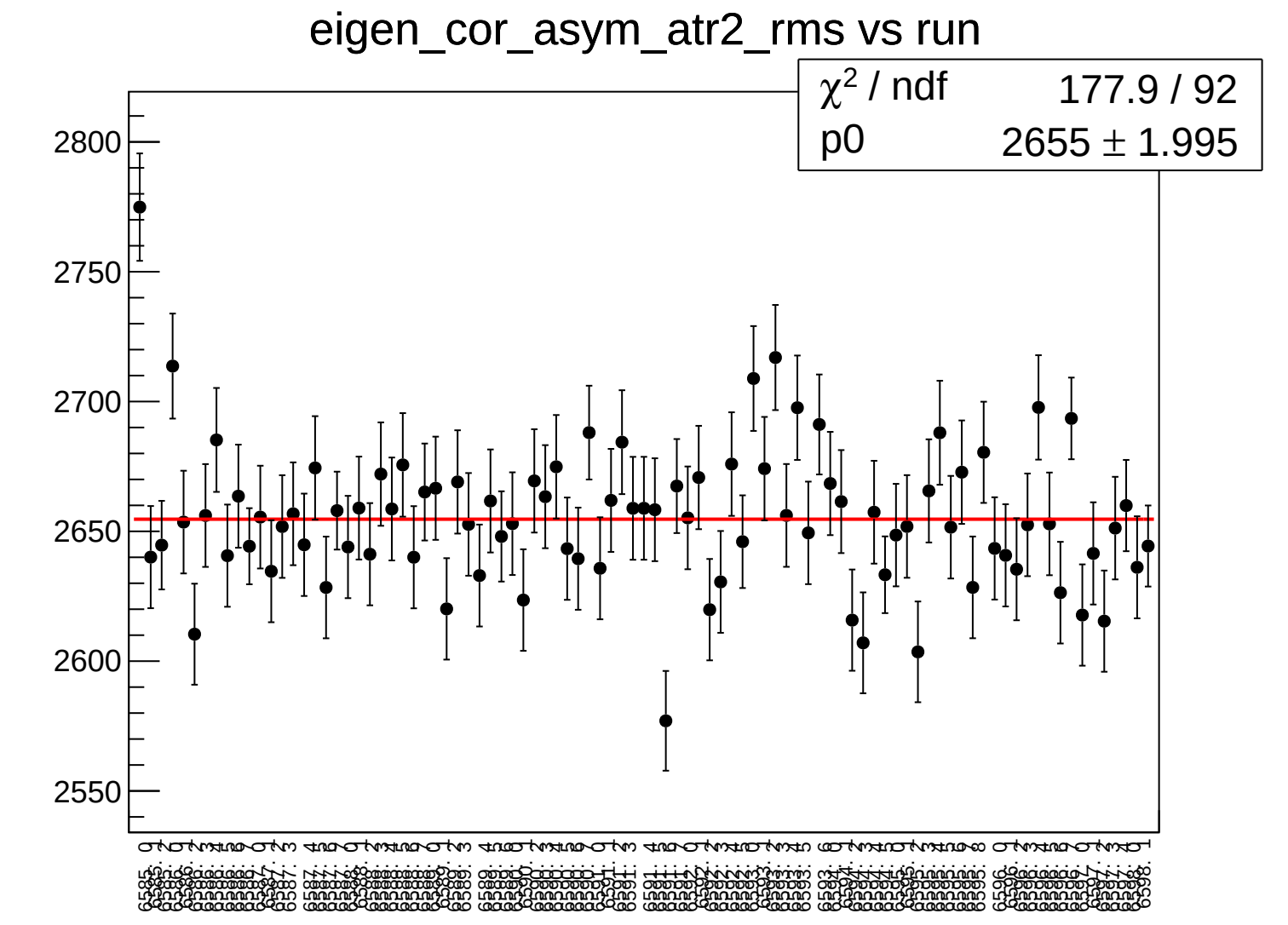
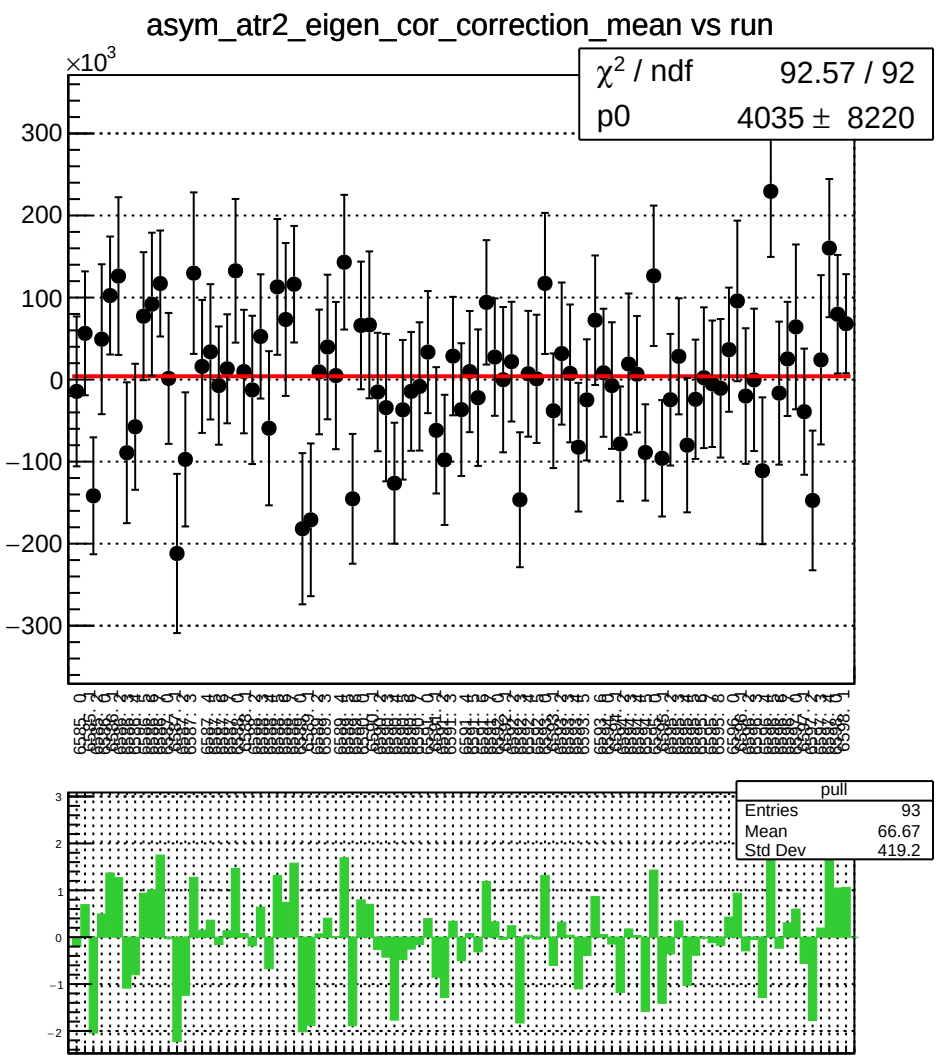
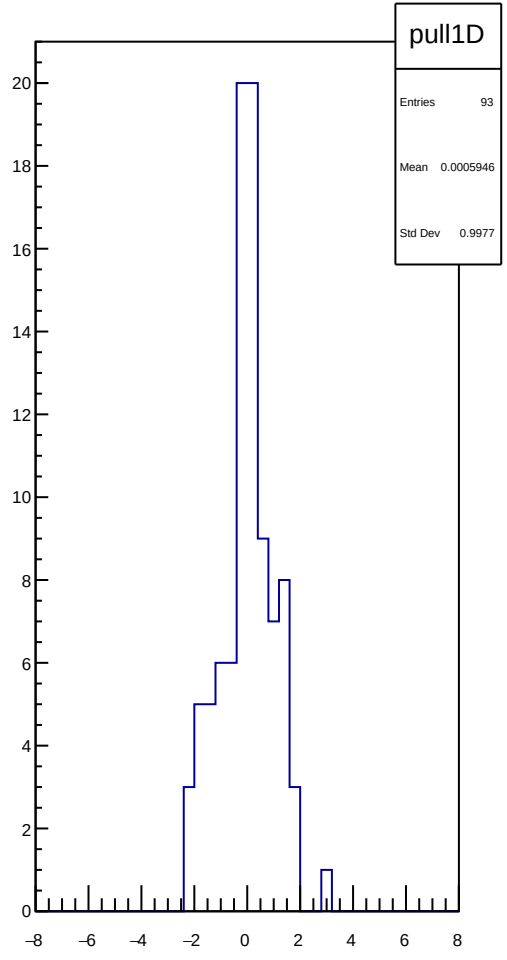
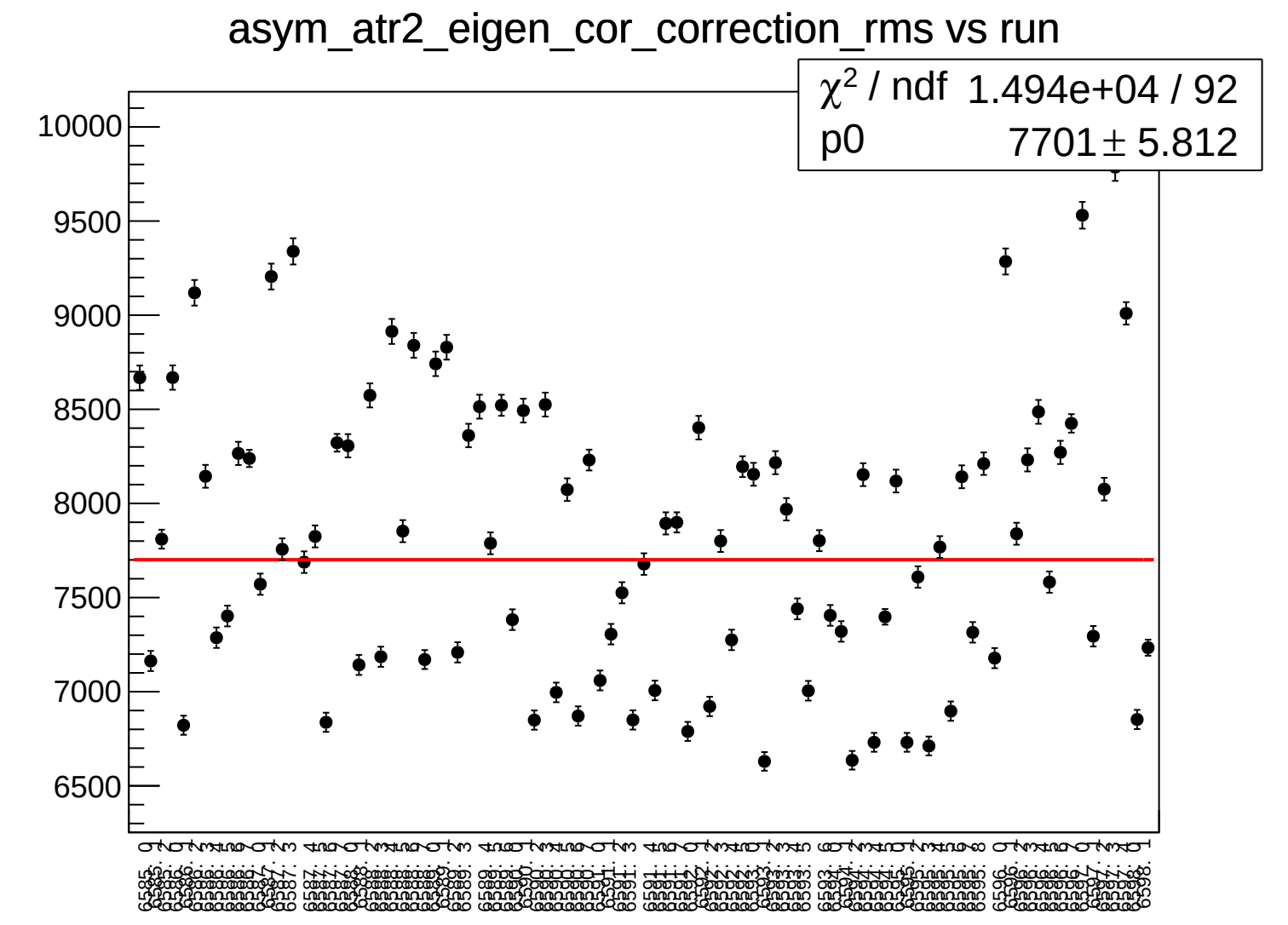
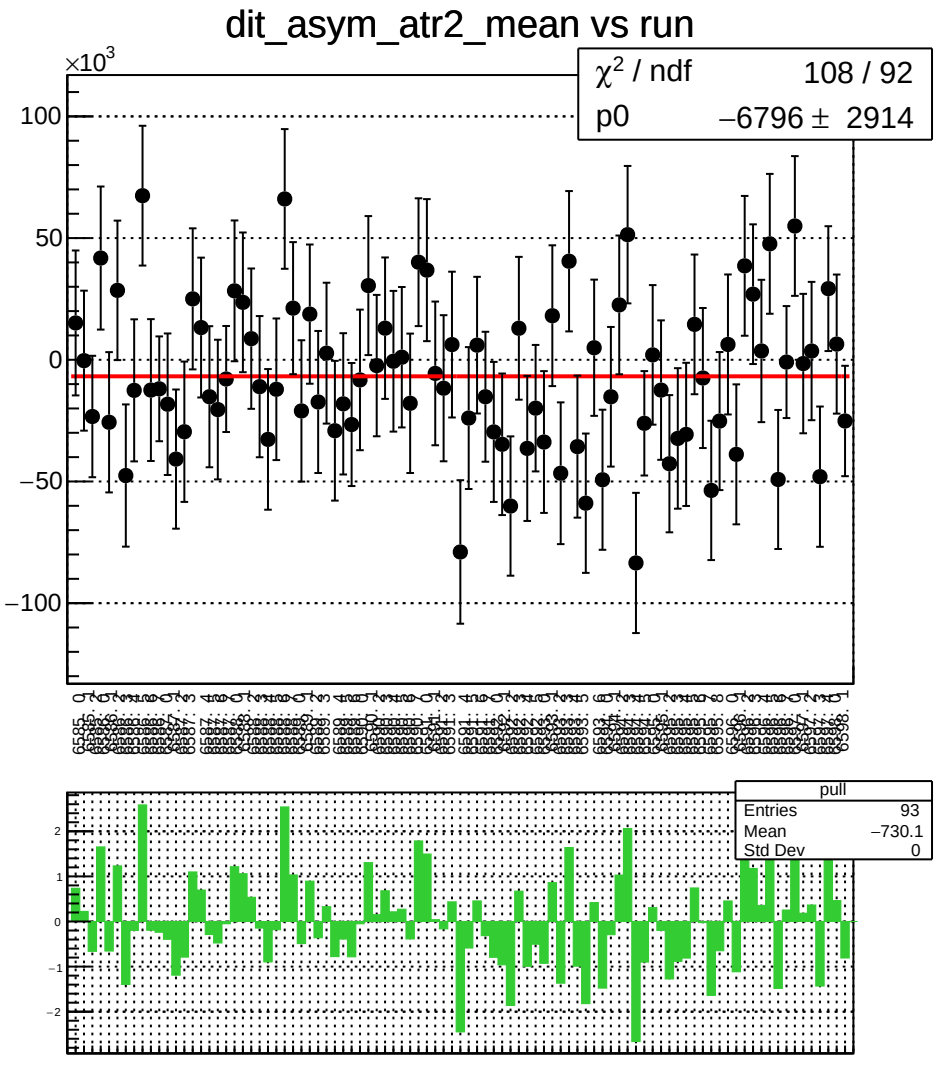
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

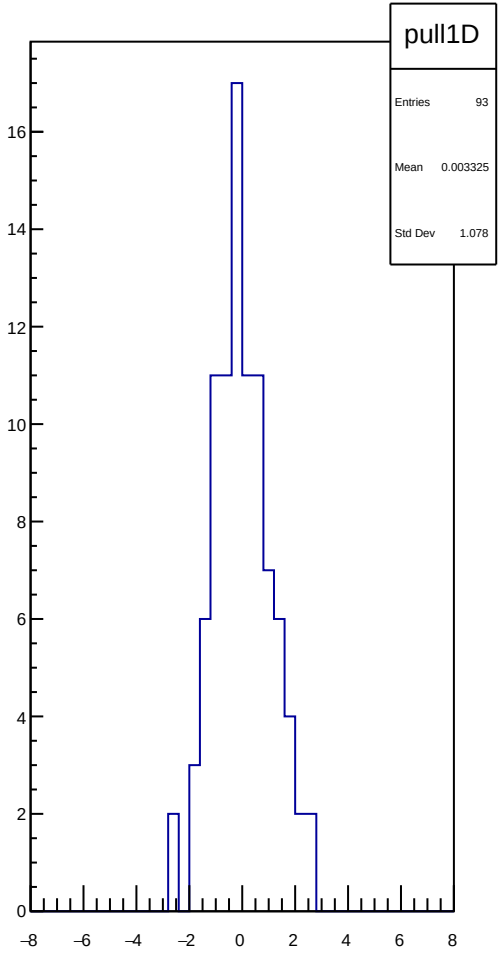

eigen_cor_asym_atr2_rms vs run
χ² / ndf 177.9 / 92
p0 2655 ± 1.995
2800
2750
2700
2650
2600
2550

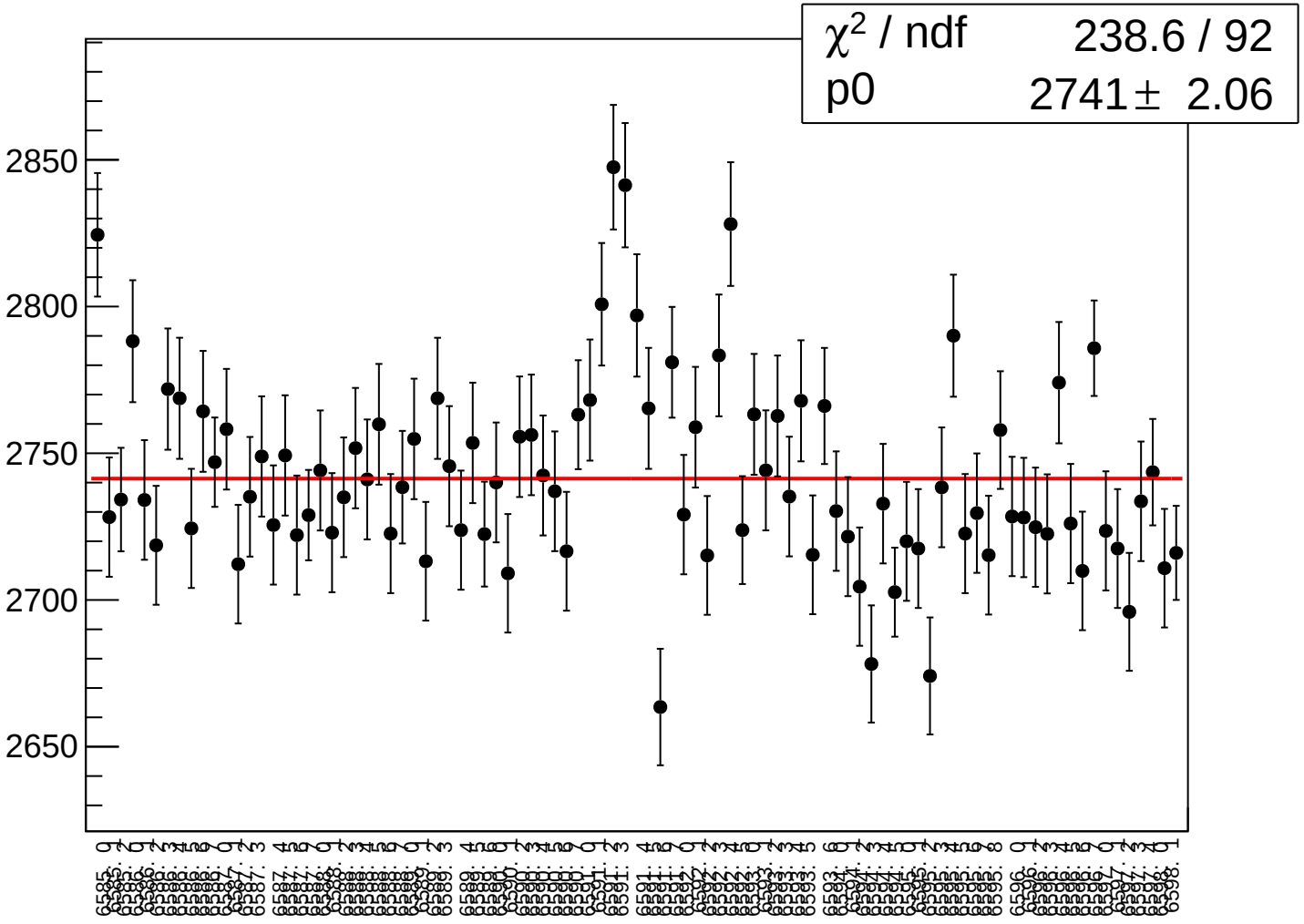

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 92.57 / 92
p0 4035 ± 8220
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 66.67
Std Dev 419.2
3
2
1
0
−1
−2

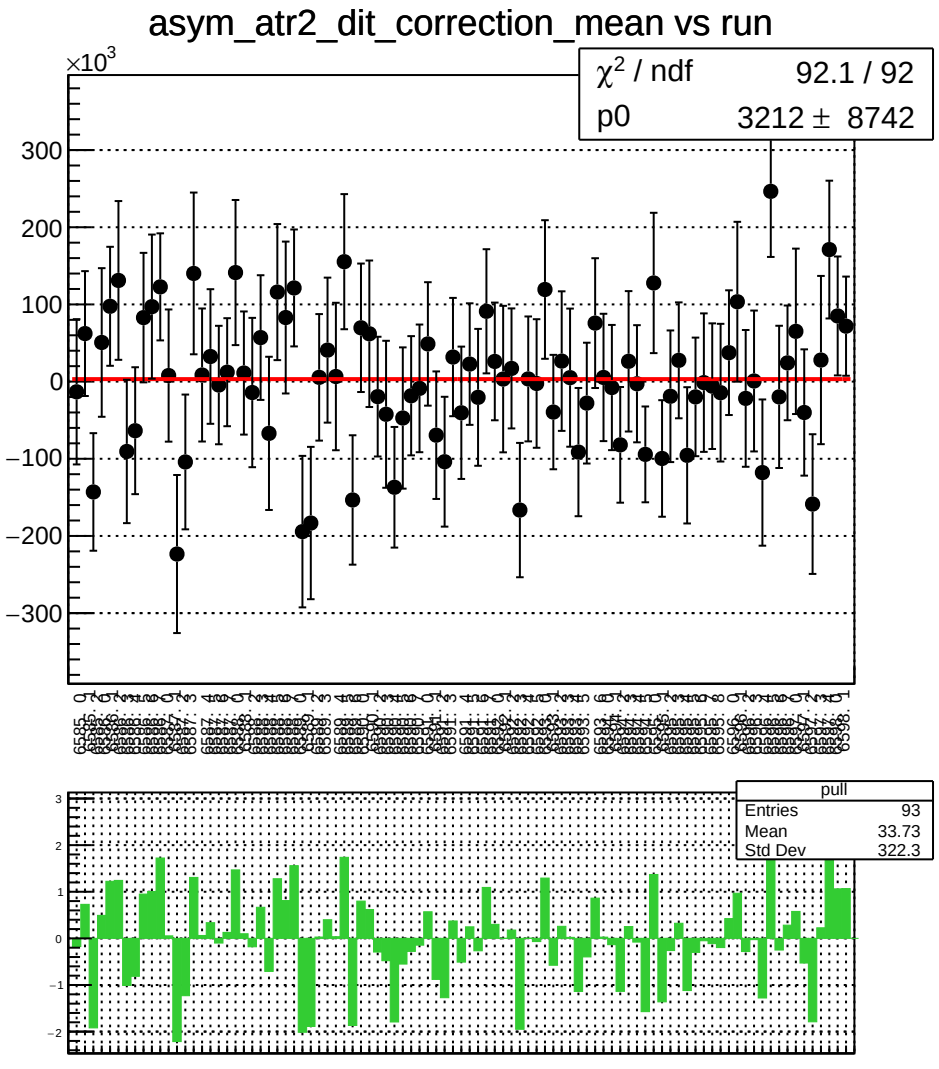

pull1D
Entries 93
Mean 0.0005946
Std Dev 0.9977
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

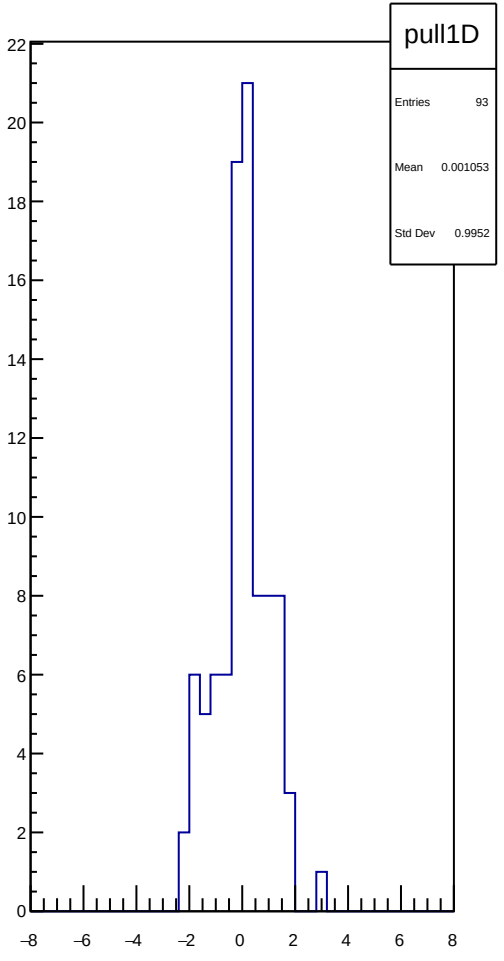

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.494e+04 / 92
p0 7701 ± 5.812
10000
9500
9000
8500
8000
7500
7000
6500

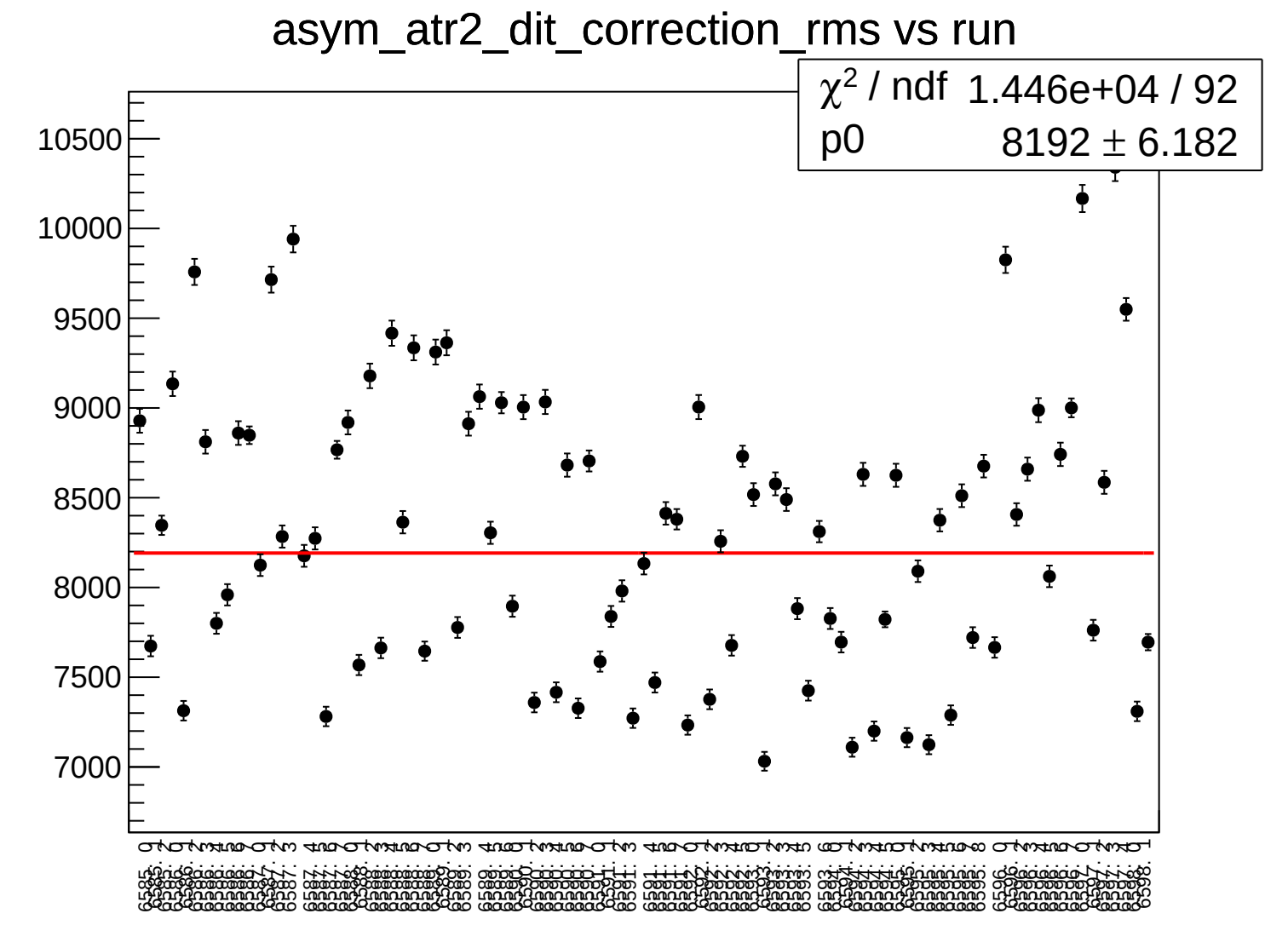

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 108 / 92
p0 −6796 ± 2914
100
50
0
−50
−100
pull
Entries 93
Mean −730.1
Std Dev 0
2
1
0
−1
−2

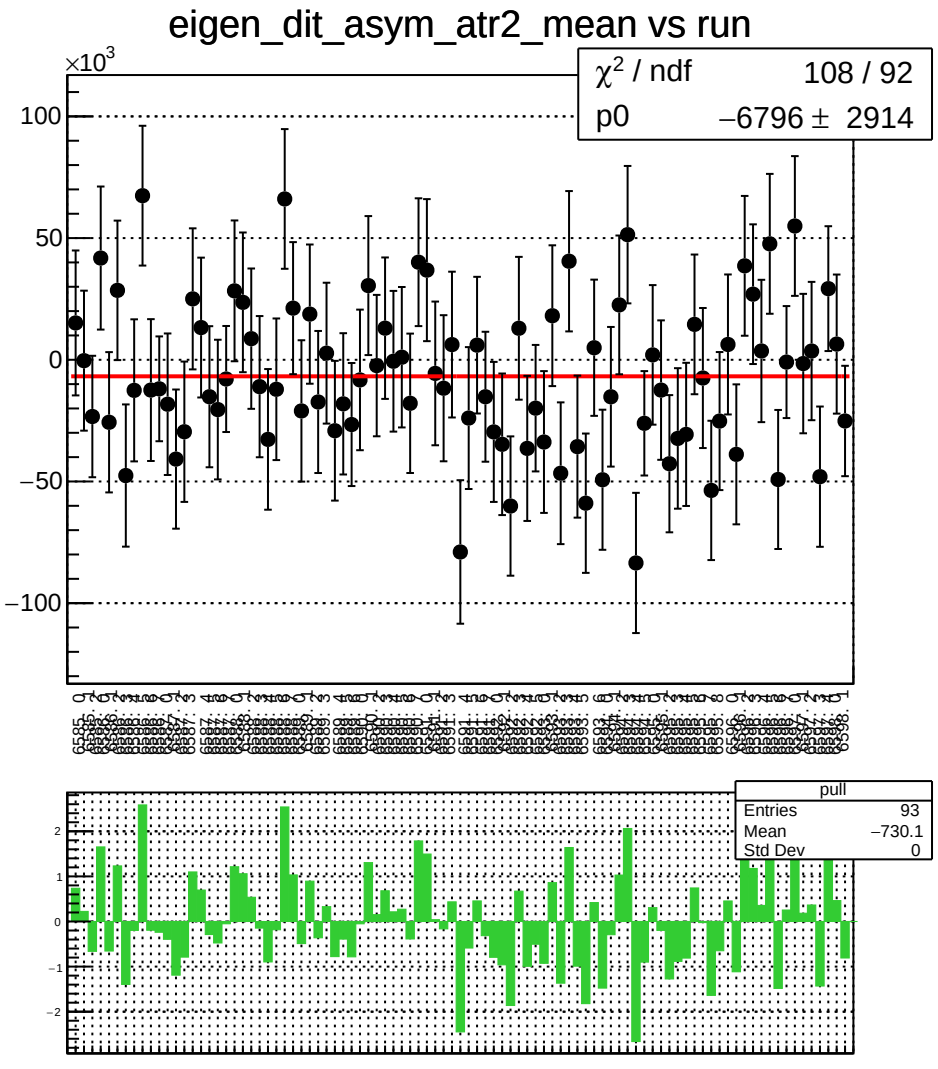

pull1D
Entries 93
Mean 0.003325
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

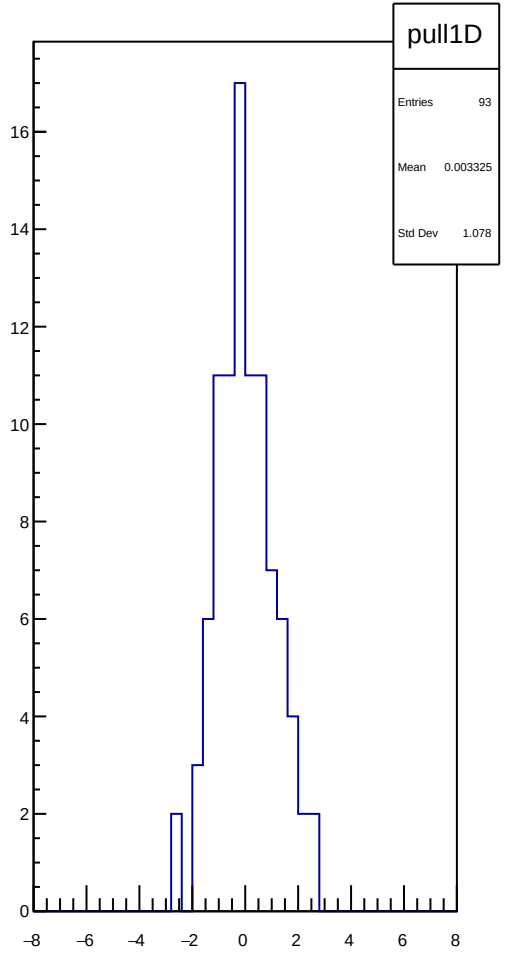

dit_asym_atr2_rms vs run
χ² / ndf 238.6 / 92
p0 2741 ± 2.06
2850
2800
2750
2700
2650

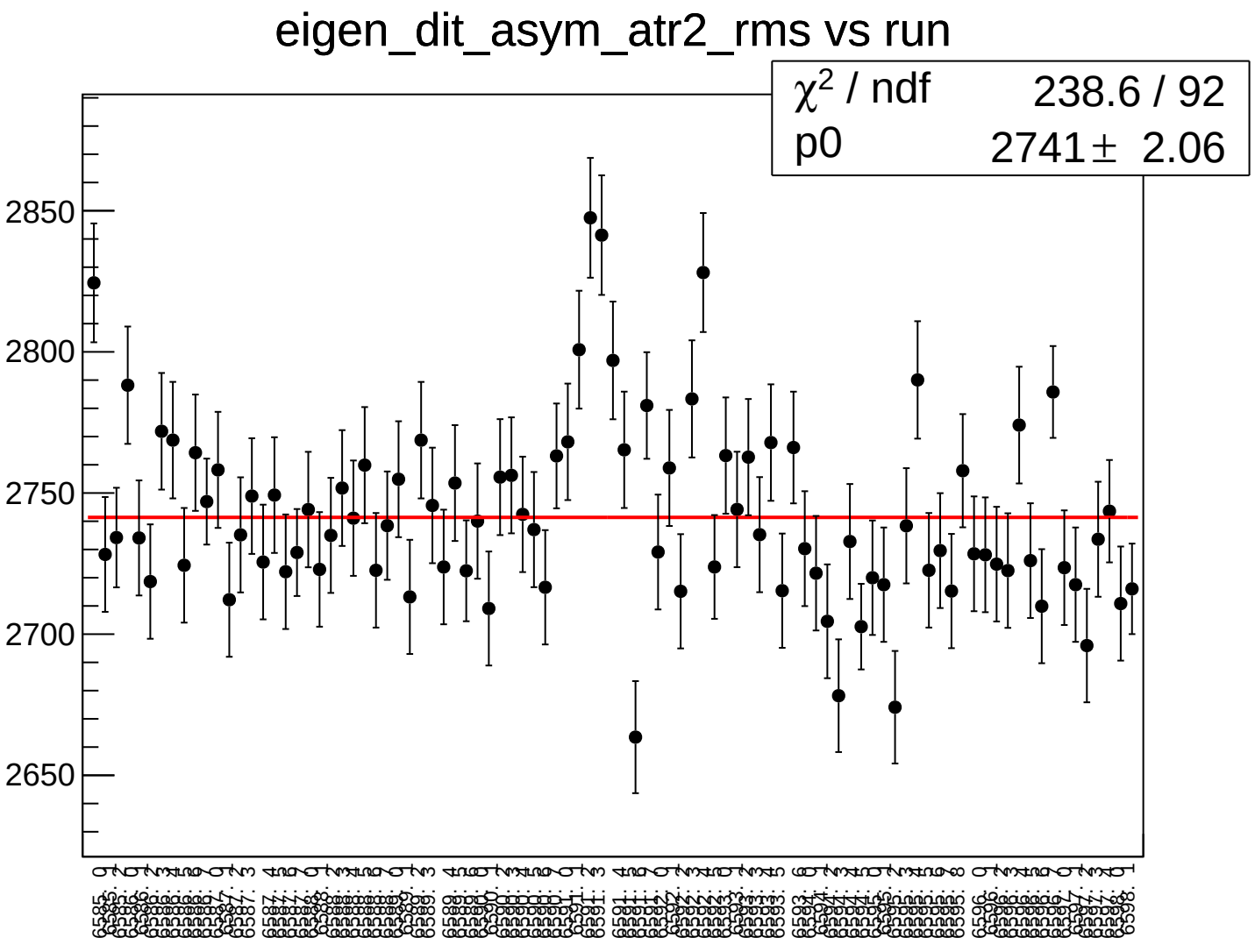

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 92.1 / 92
p0 3212 ± 8742
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 33.73
Std Dev 322.3
3
2
1
0
−1
−2

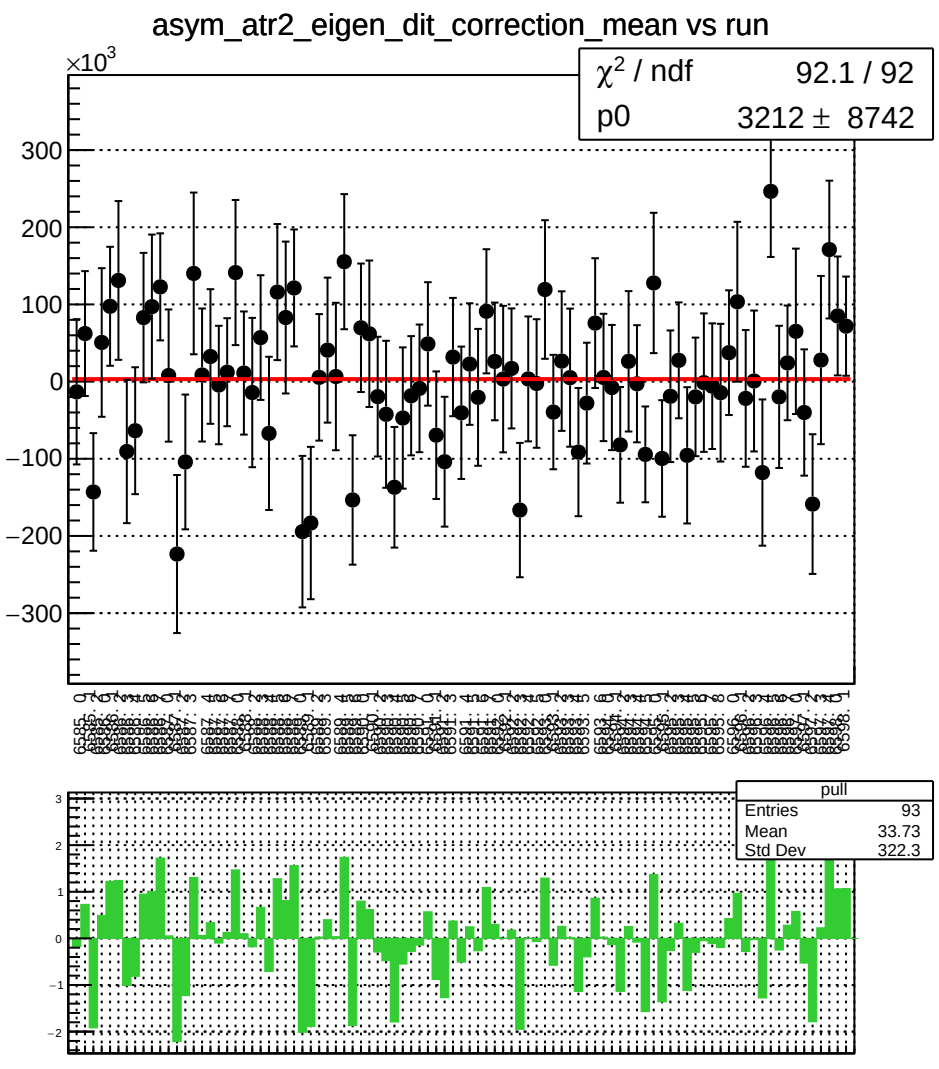

pull1D
Entries 93
Mean 0.001053
Std Dev 0.9952
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

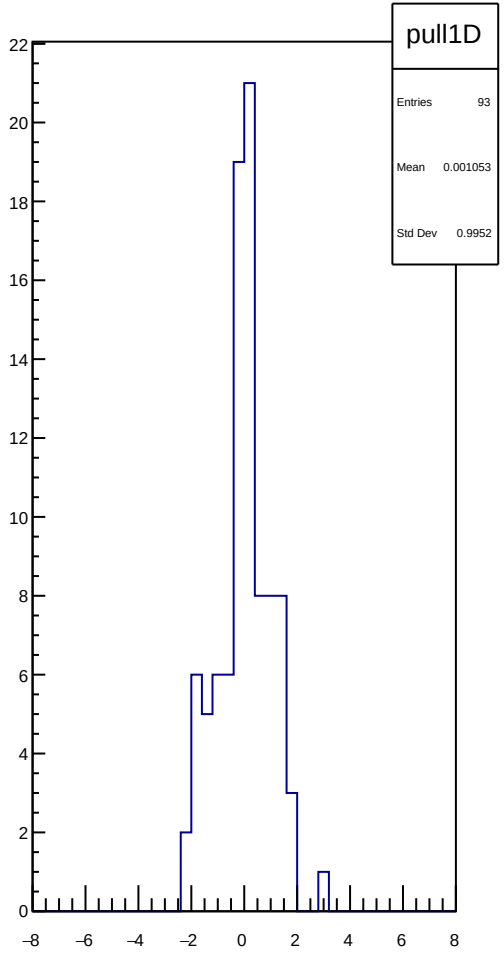

asym_atr2_dit_correction_rms vs run
χ^2 / ndf 1.446e+04 / 92
p0 8192 ± 6.182
10500
10000
9500
9000
8500
8000
7500
7000

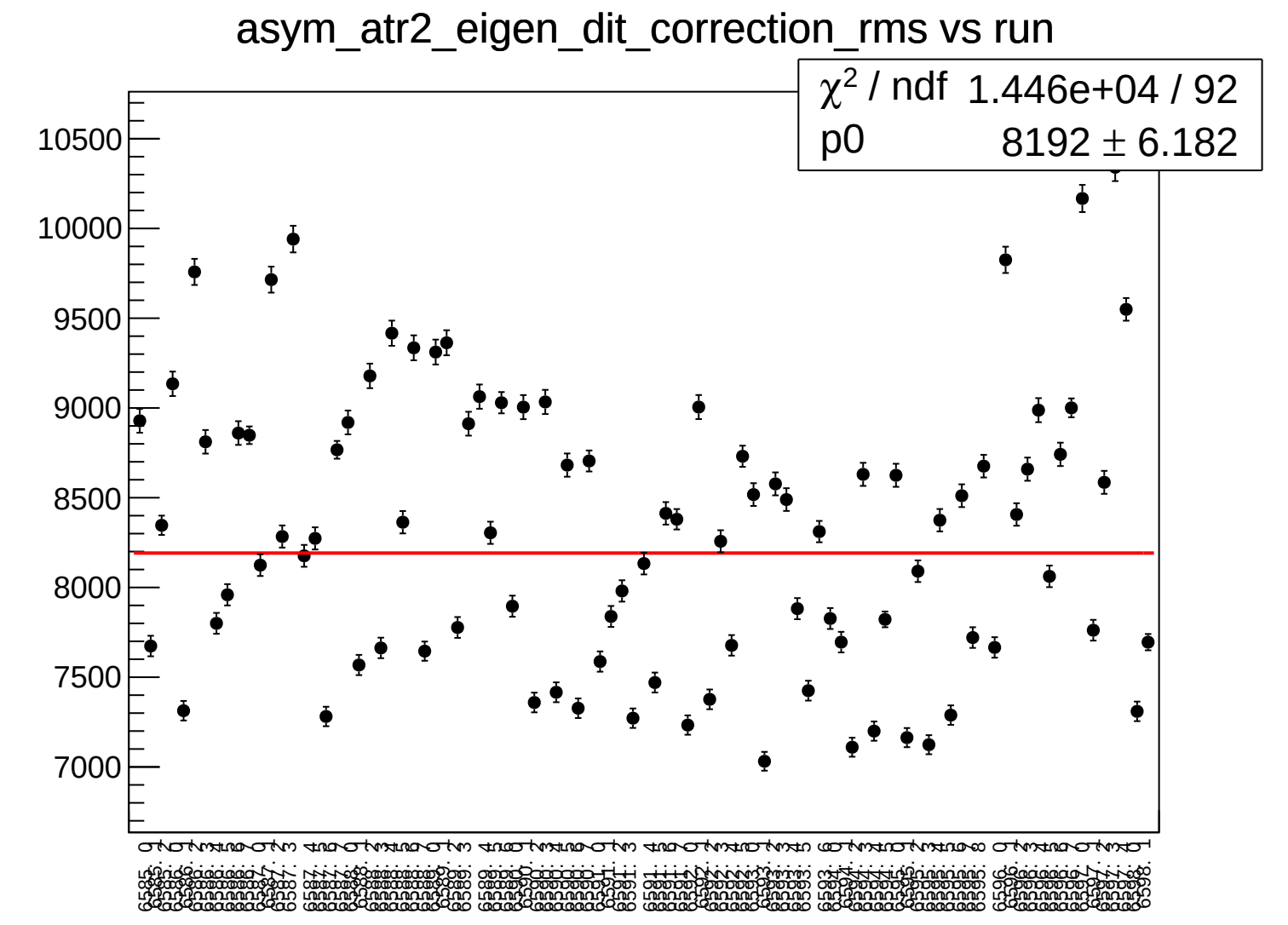

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 108 / 92
p0 −6796 ± 2914
100
50
0
−50
−100
pull
Entries 93
Mean −730.1
Std Dev 0
2
1
0
−1
−2

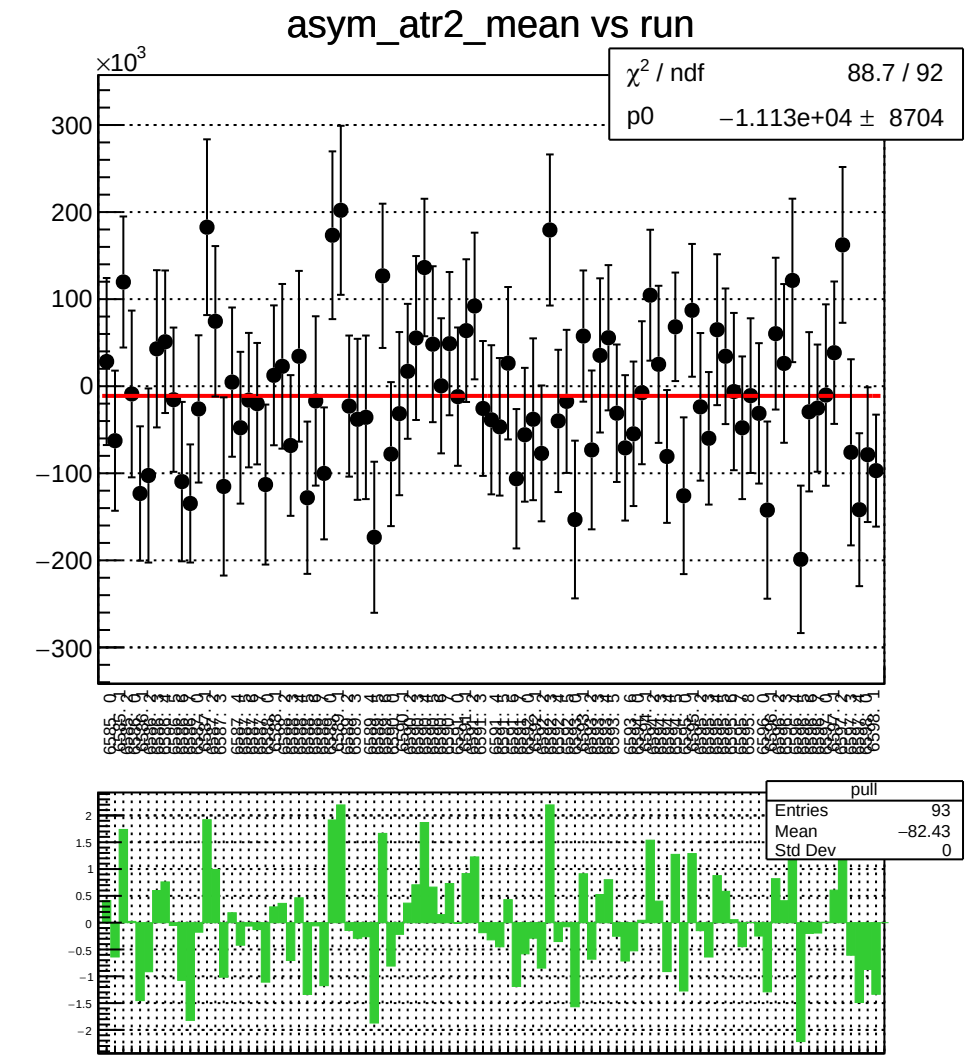

pull1D
Entries 93
Mean 0.003325
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

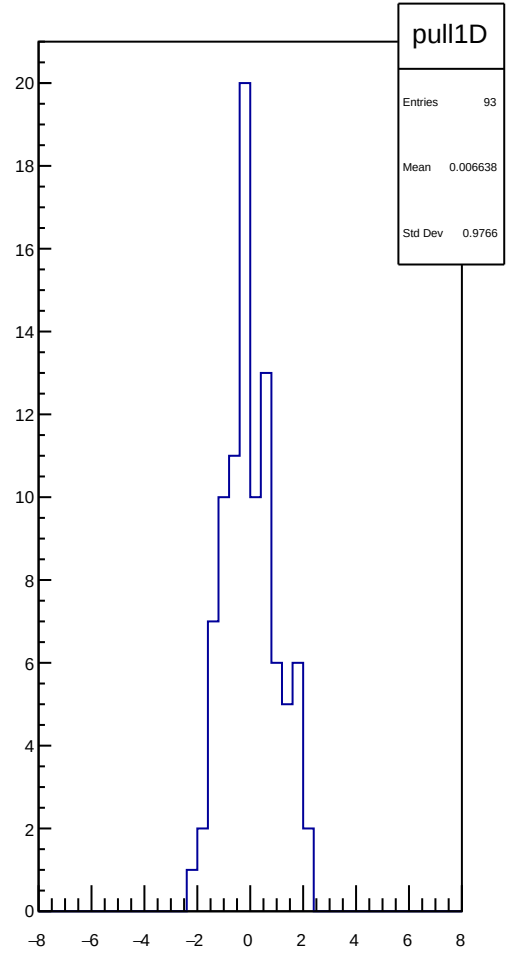

eigen_dit_asym_atr2_rms vs run
χ² / ndf 238.6 / 92
p0 2741 ± 2.06
2850
2800
2750
2700
2650

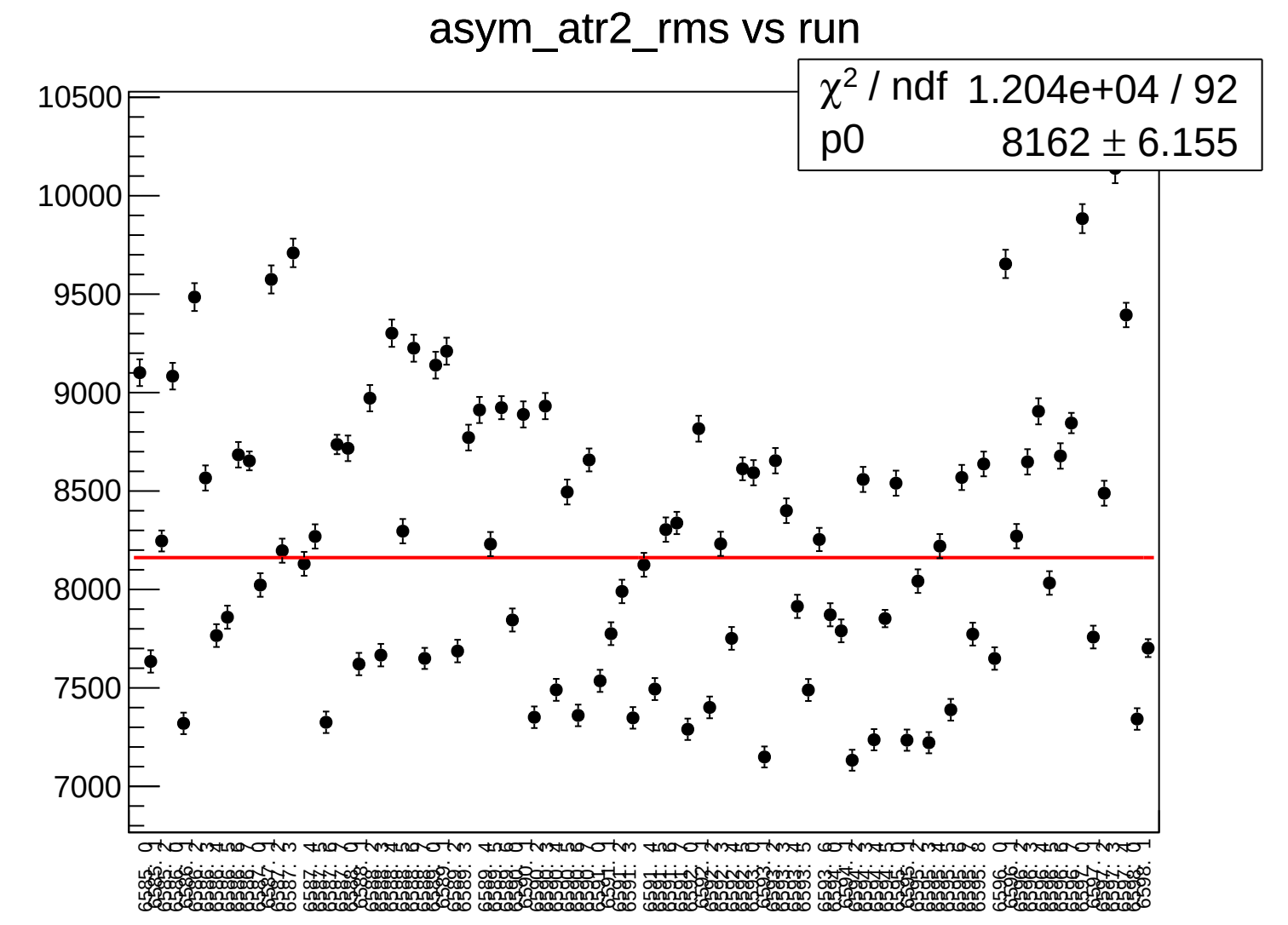

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 92.1 / 92
p0 3212 ± 8742
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 33.73
Std Dev 322.3
3
2
1
0
−1
−2

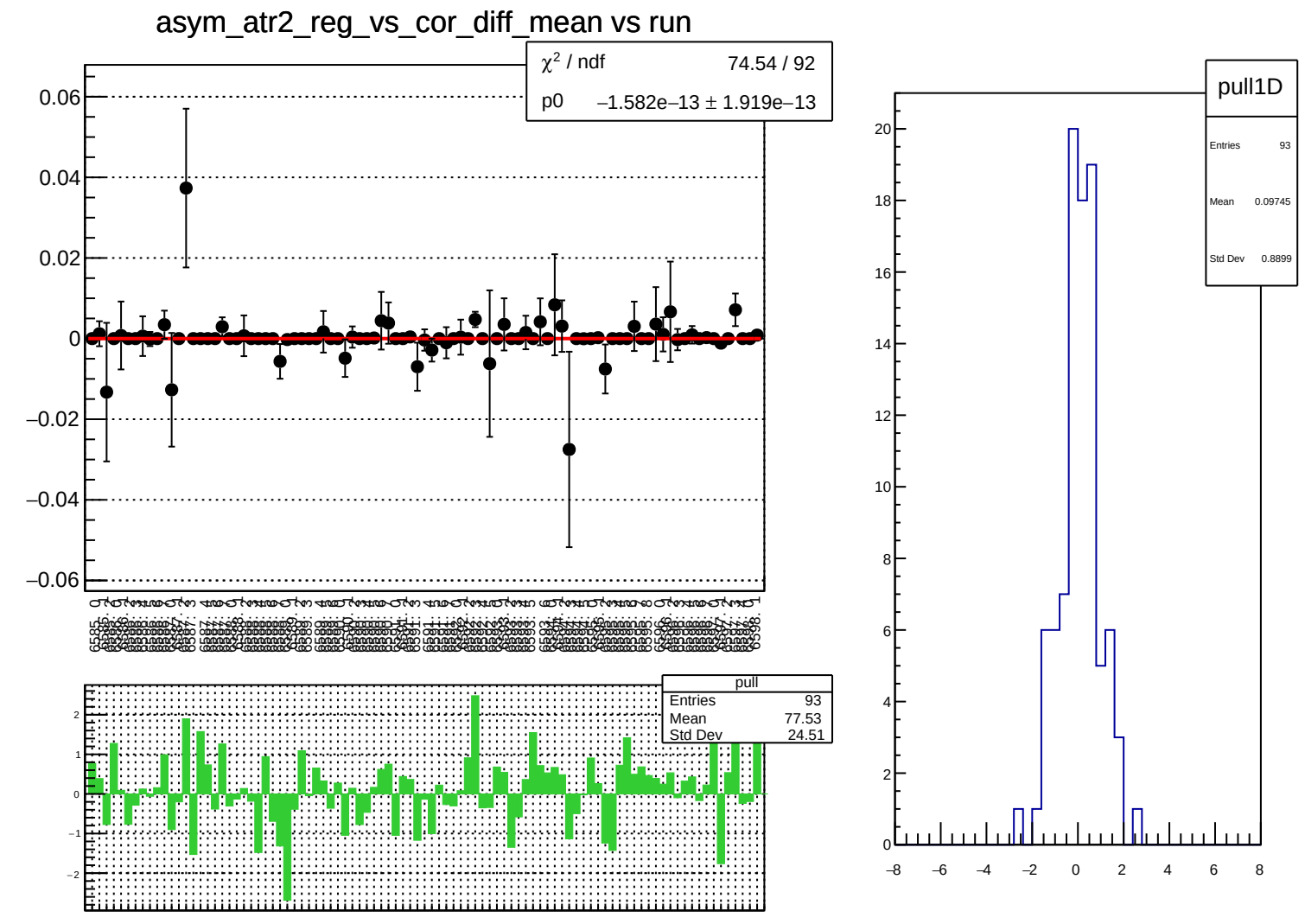

pull1D
Entries 93
Mean 0.001053
Std Dev 0.9952
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

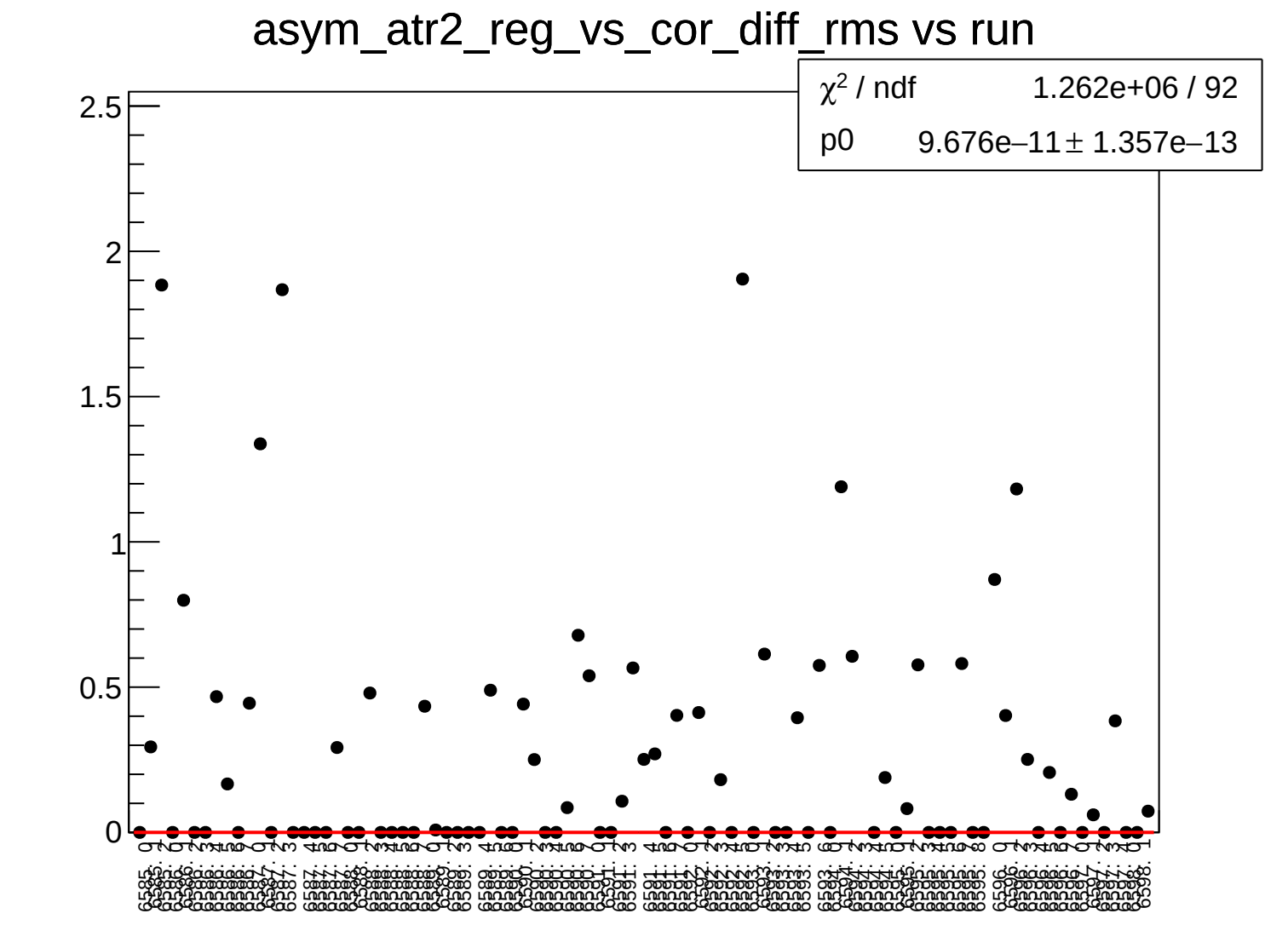

asym_atr2_eigen_dit_correction_rms vs run
χ^2 / ndf 1.446e+04 / 92
p0 8192 ± 6.182
10500
10000
9500
9000
8500
8000
7500
7000

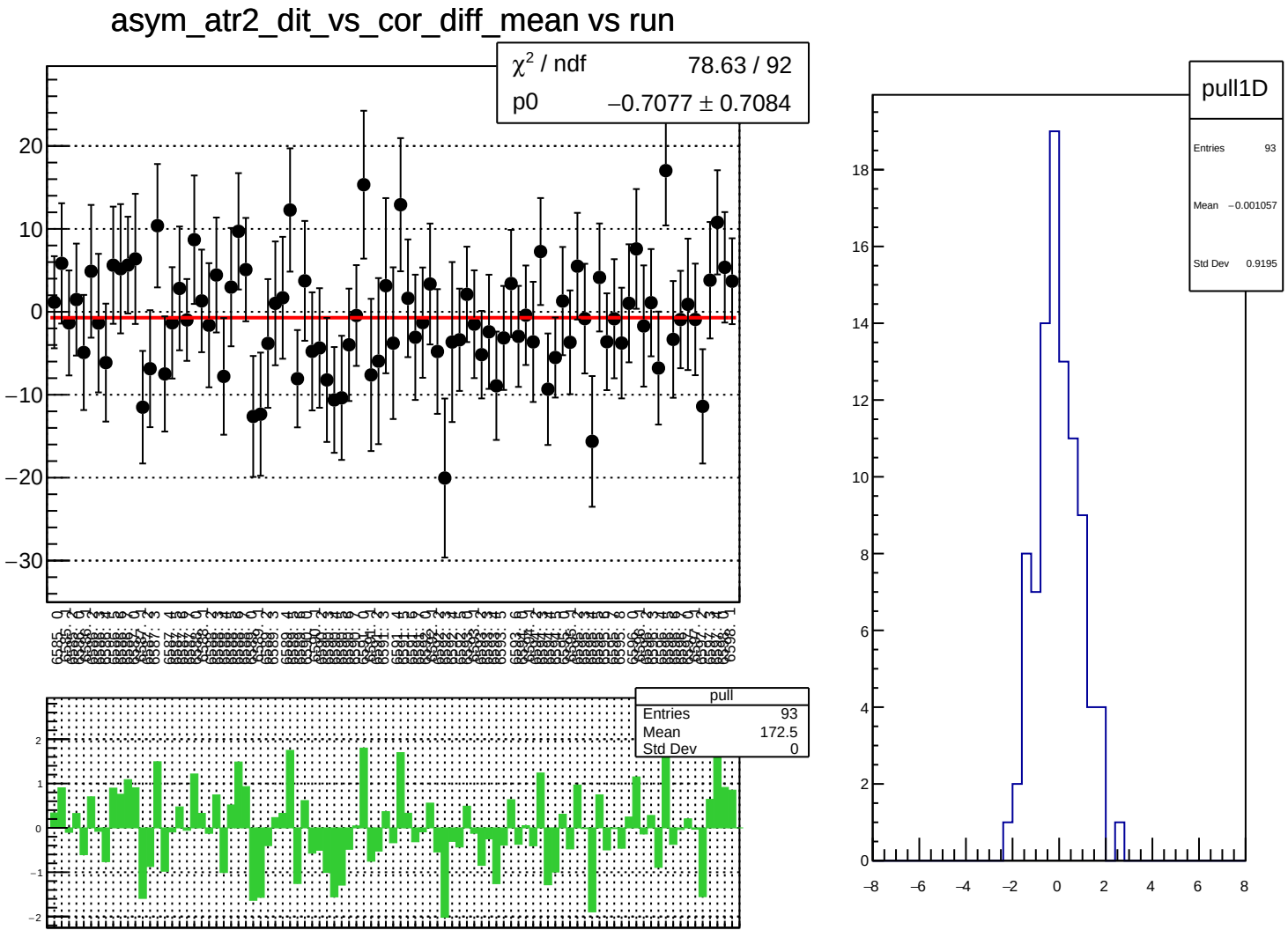

asym_atr2_mean vs run
×10^3
χ² / ndf 88.7 / 92
p0 −1.113e+04 ± 8704
pull
Entries 93
Mean −82.43
Std Dev 0

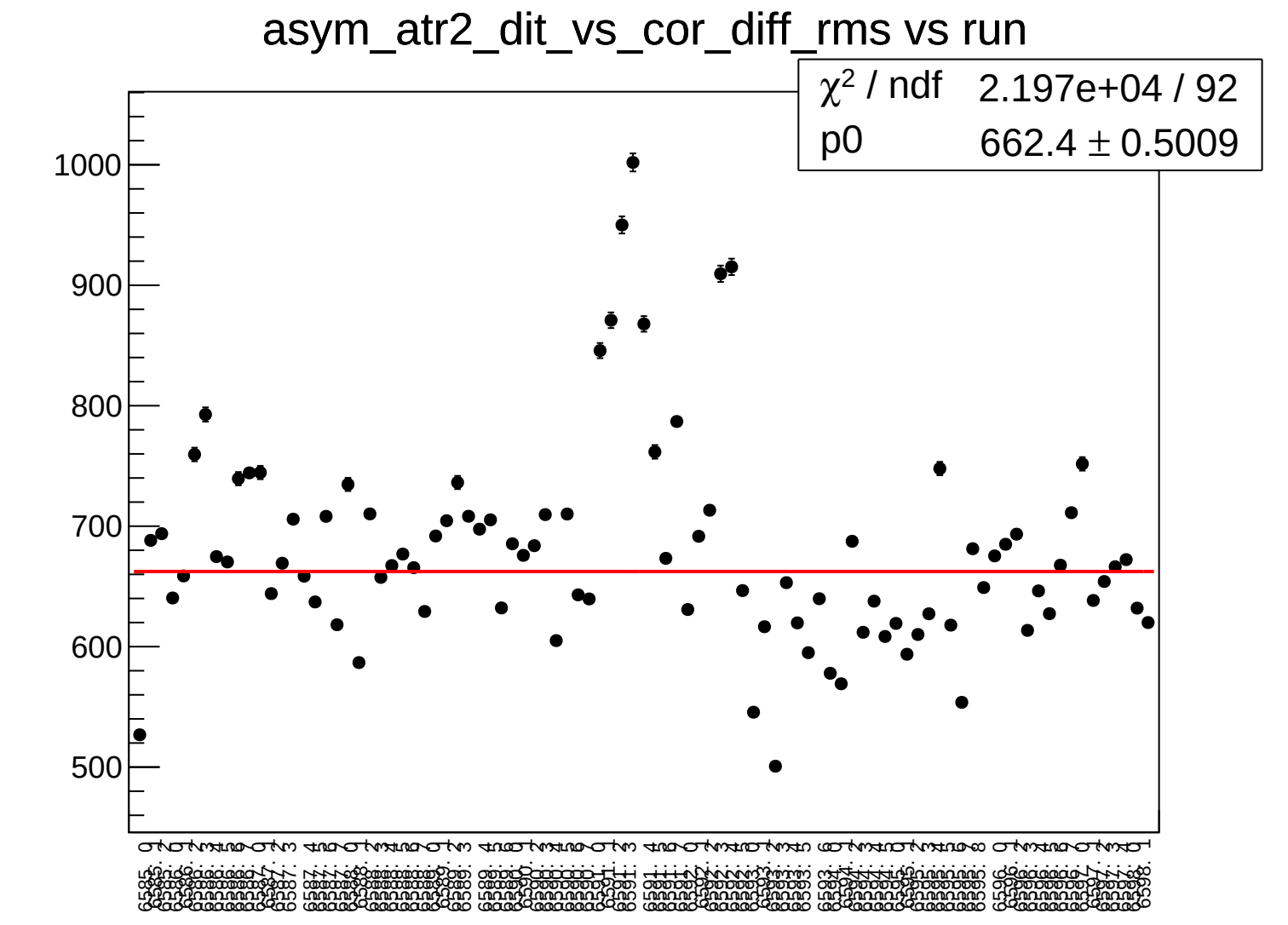

pull1D
Entries 93
Mean 0.006638
Std Dev 0.9766

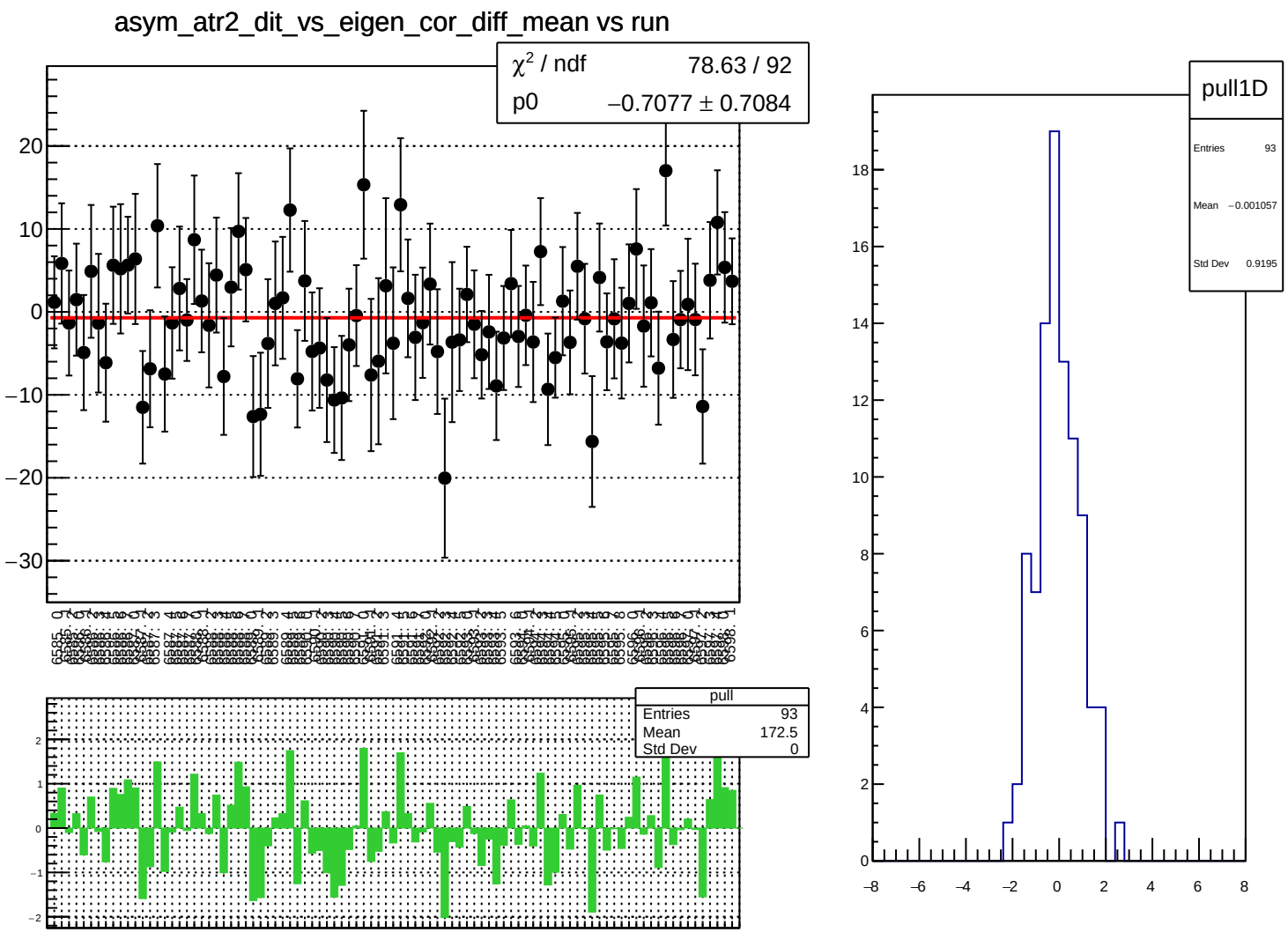

asym_atr2_rms vs run
χ² / ndf 1.204e+04 / 92
p0 8162 ± 6.155
10500
10000
9500
9000
8500
8000
7500
7000

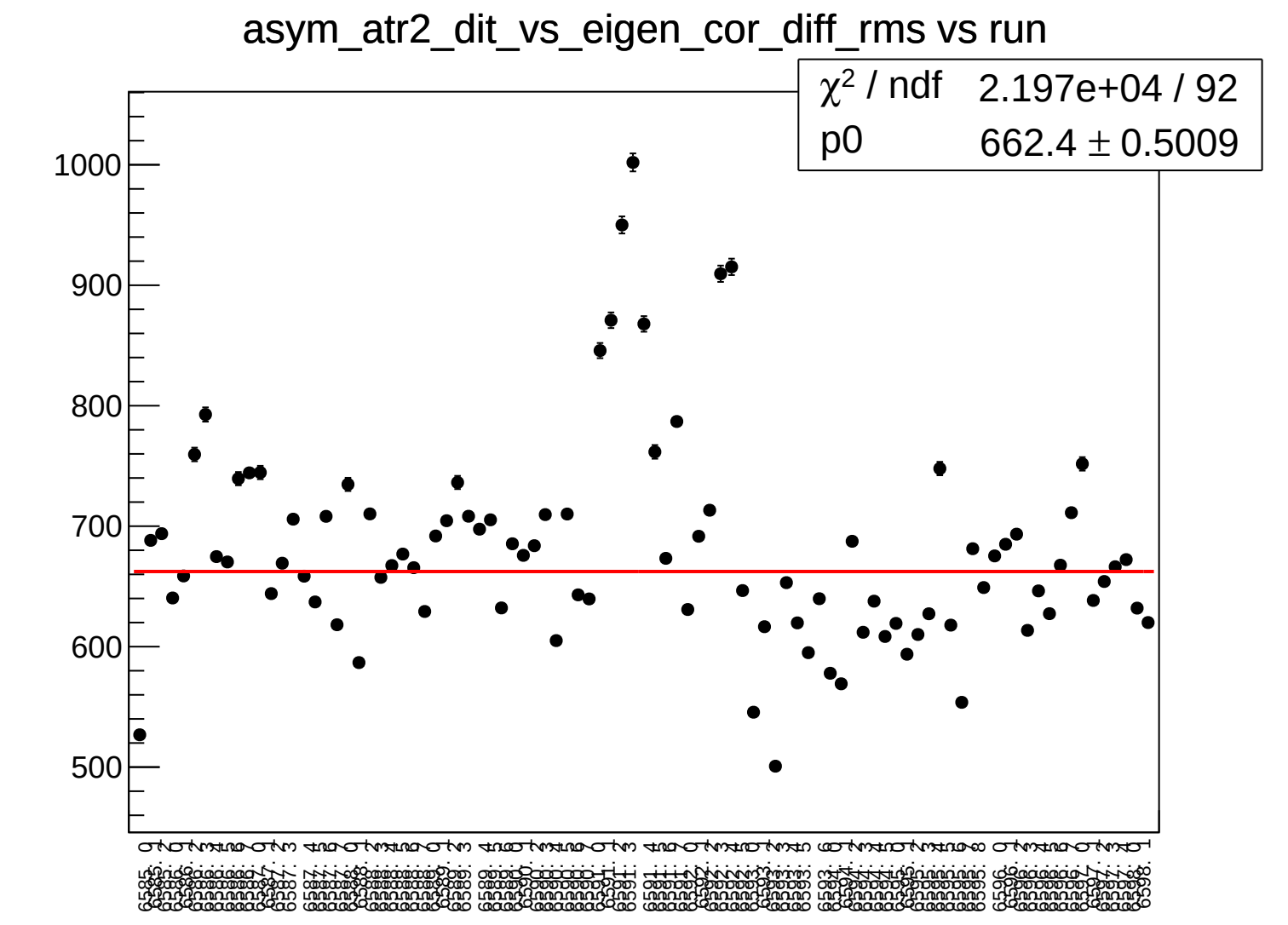

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 74.54 / 92
p0 −1.582e−13 ± 1.919e−13
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 77.53
Std Dev 24.51
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.09745
Std Dev 0.8899
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

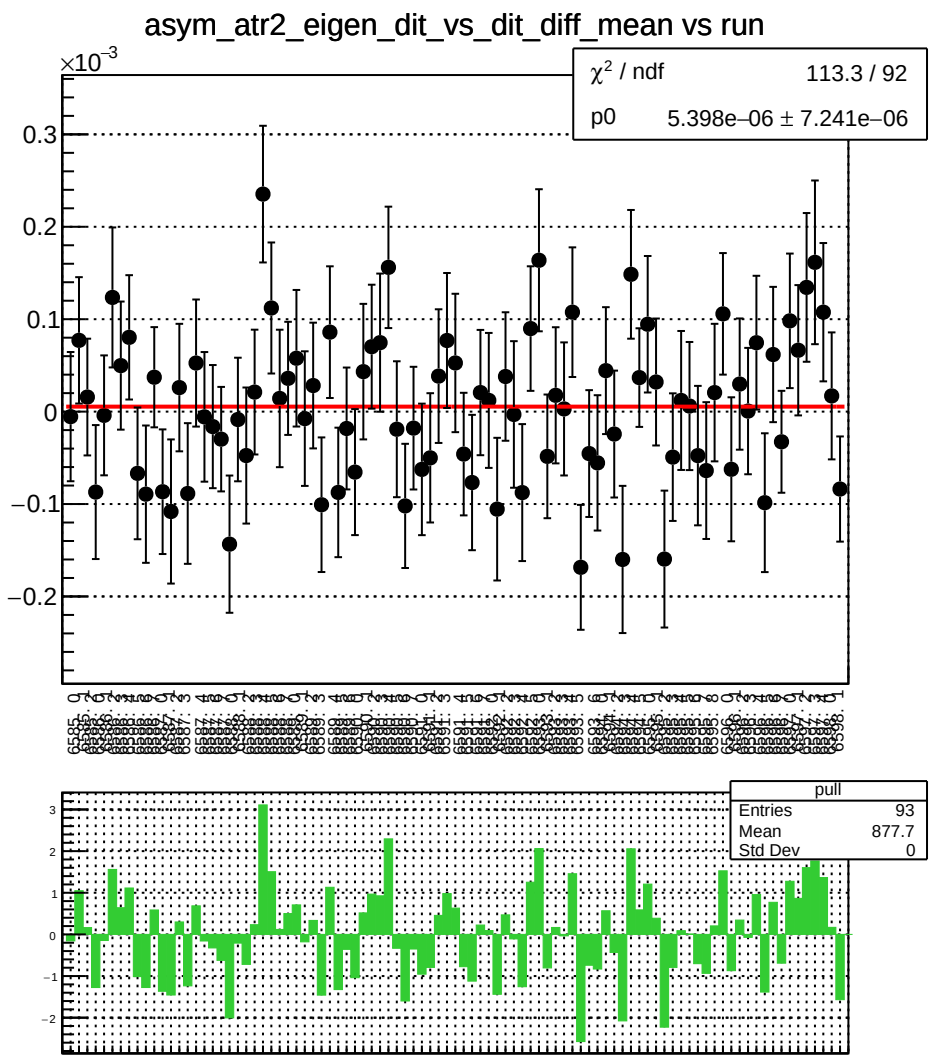

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.262e+06 / 92
p0 9.676e−11 ± 1.357e−13
2.5
2
1.5
1
0.5
0

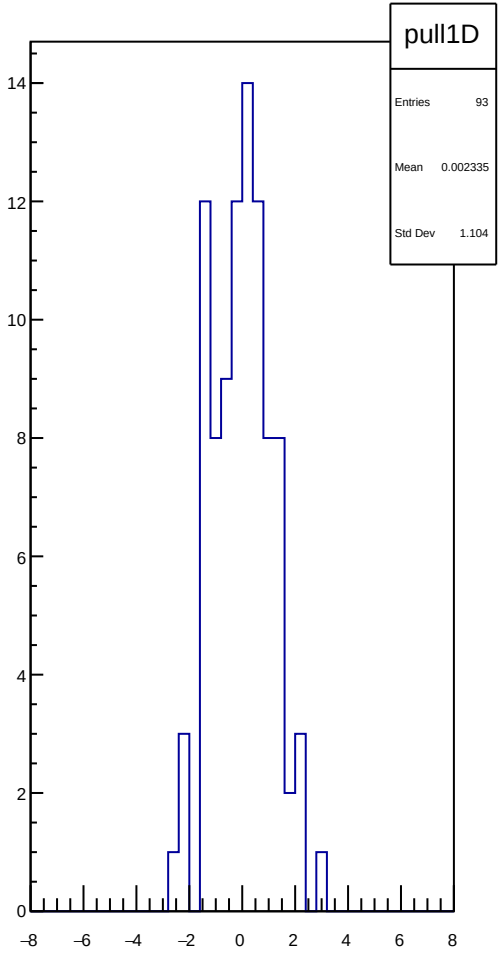

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 78.63 / 92
p0 −0.7077 ± 0.7084
pull
Entries 93
Mean 172.5
Std Dev 0
pull1D
Entries 93
Mean −0.001057
Std Dev 0.9195

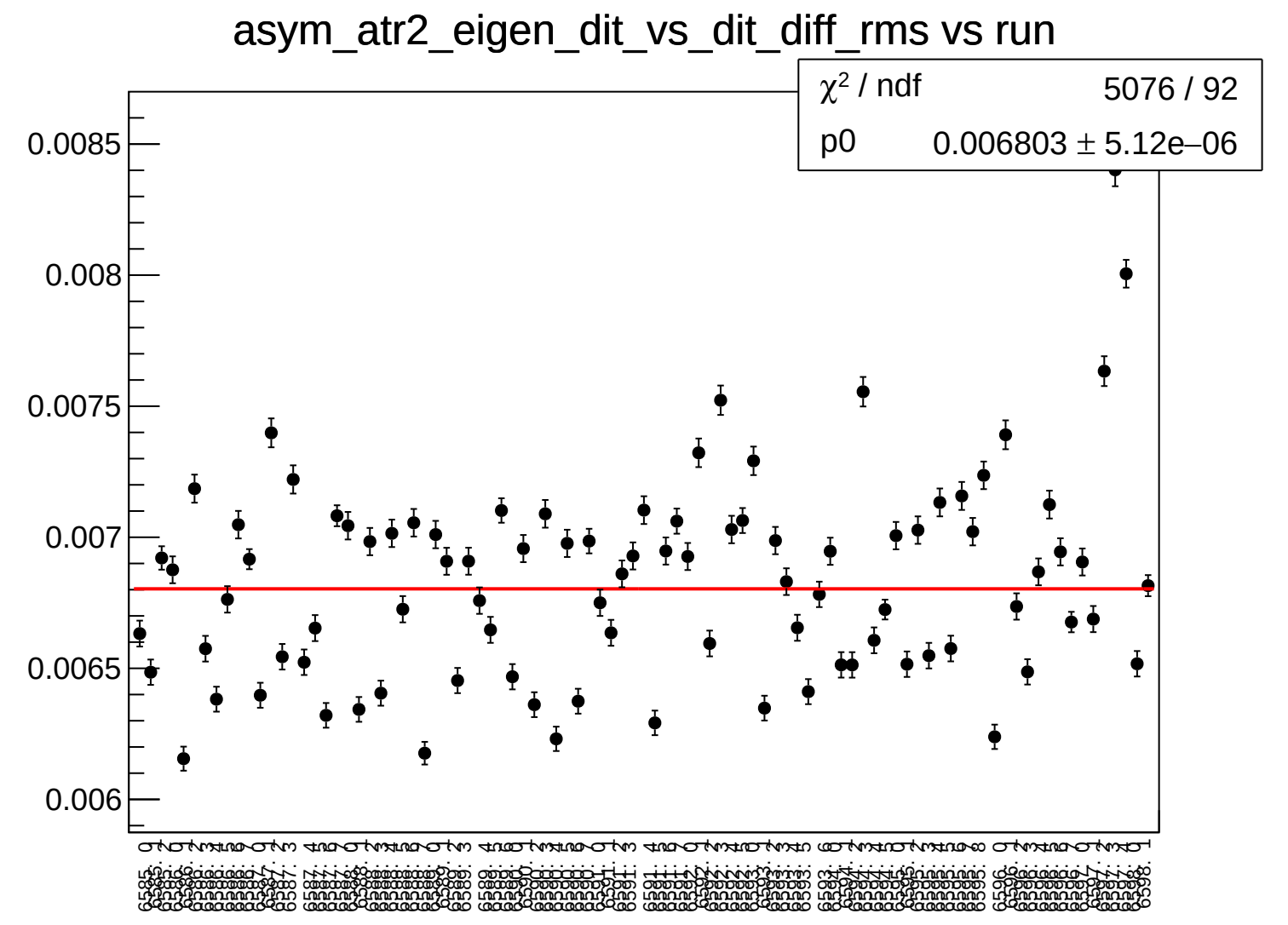

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.197e+04 / 92
p0 662.4 ± 0.5009
1000
900
800
700
600
500

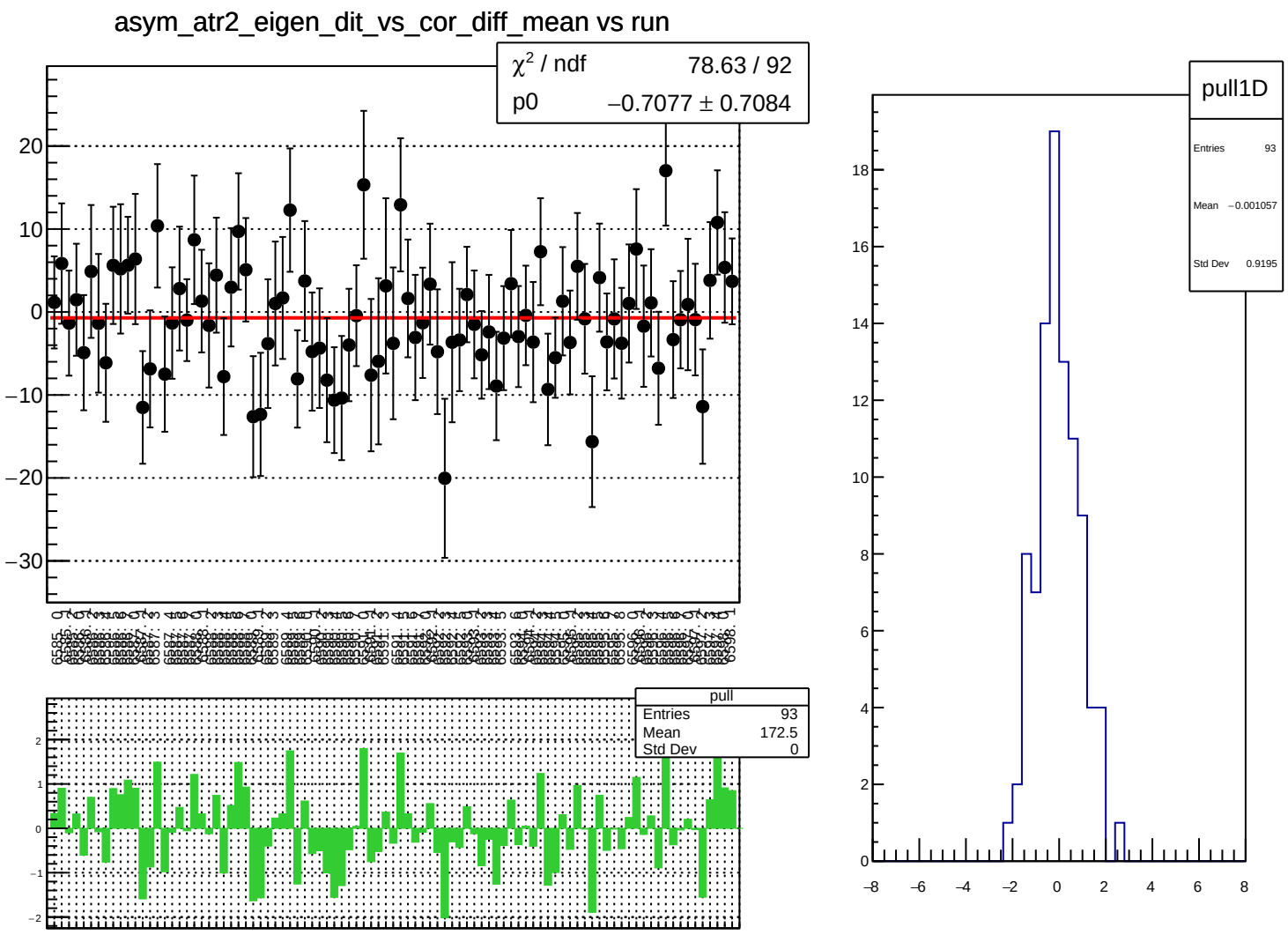

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.63 / 92
p0 −0.7077 ± 0.7084
pull
Entries 93
Mean 172.5
Std Dev 0
pull1D
Entries 93
Mean −0.001057
Std Dev 0.9195

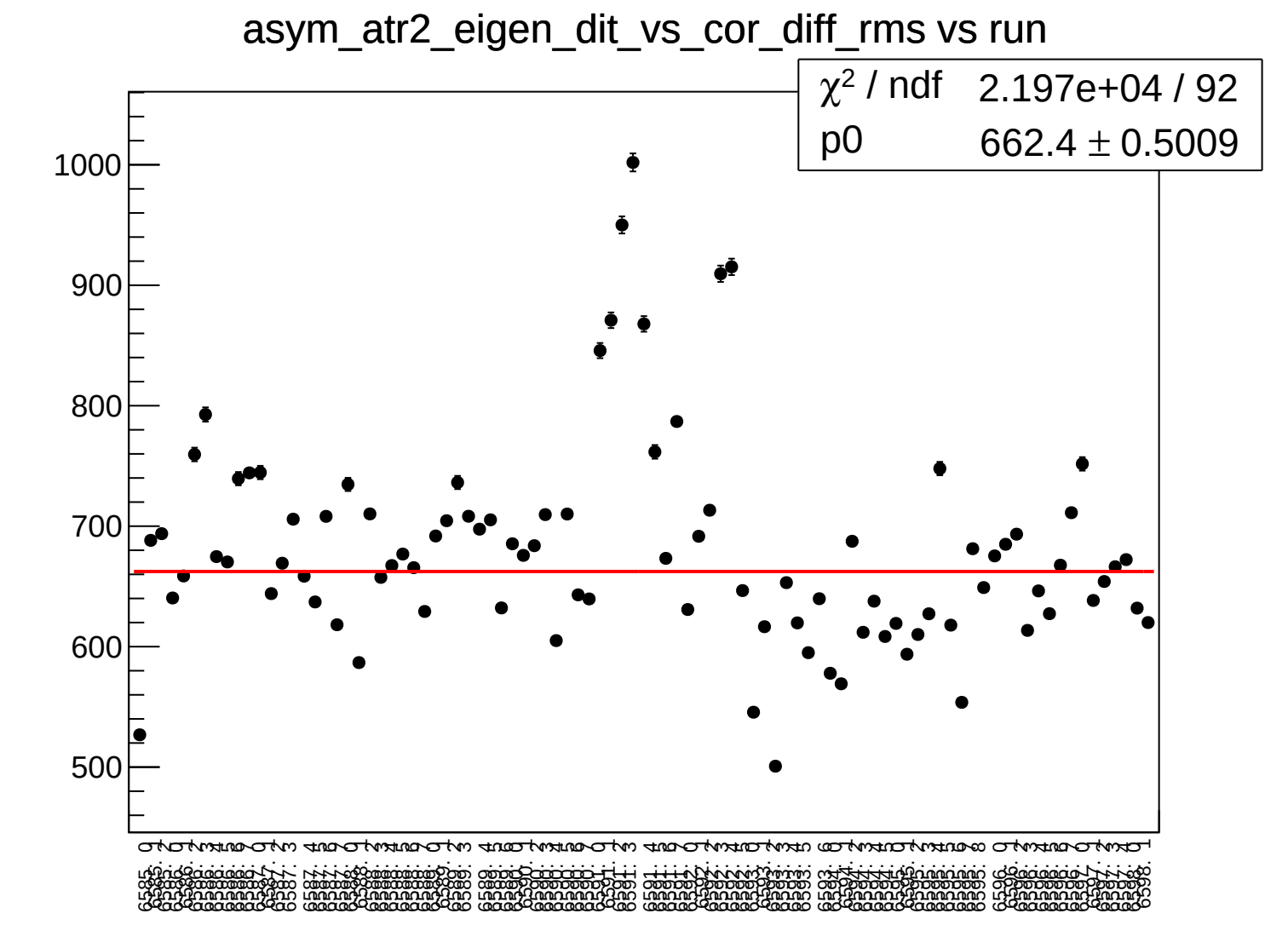

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.197e+04 / 92
p0 662.4 ± 0.5009
1000
900
800
700
600
500

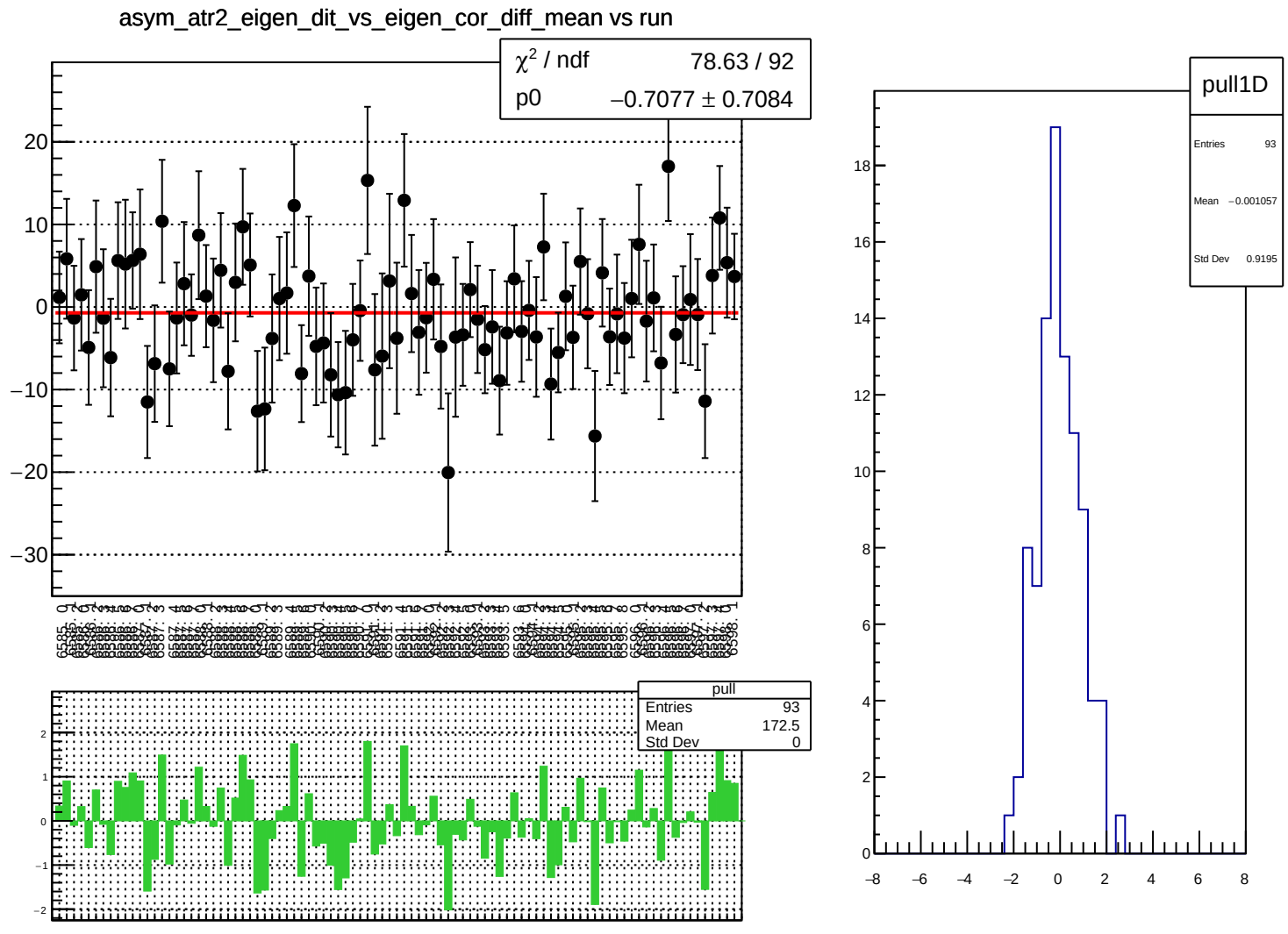

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.3 / 92
p0 5.398e−06 ± 7.241e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean 877.7
Std Dev 0
3
2
1
0
−1
−2

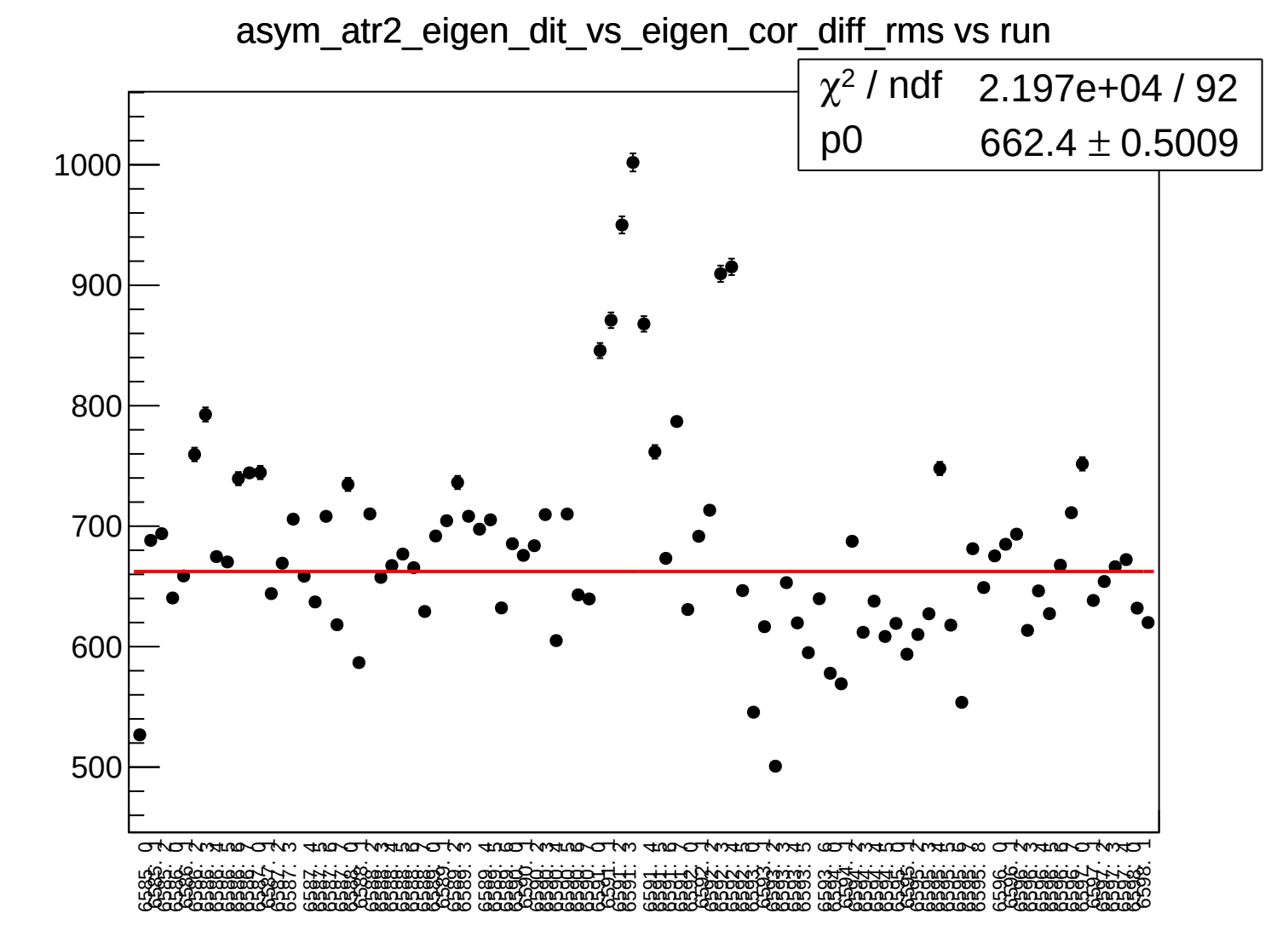

pull1D
Entries 93
Mean 0.002335
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

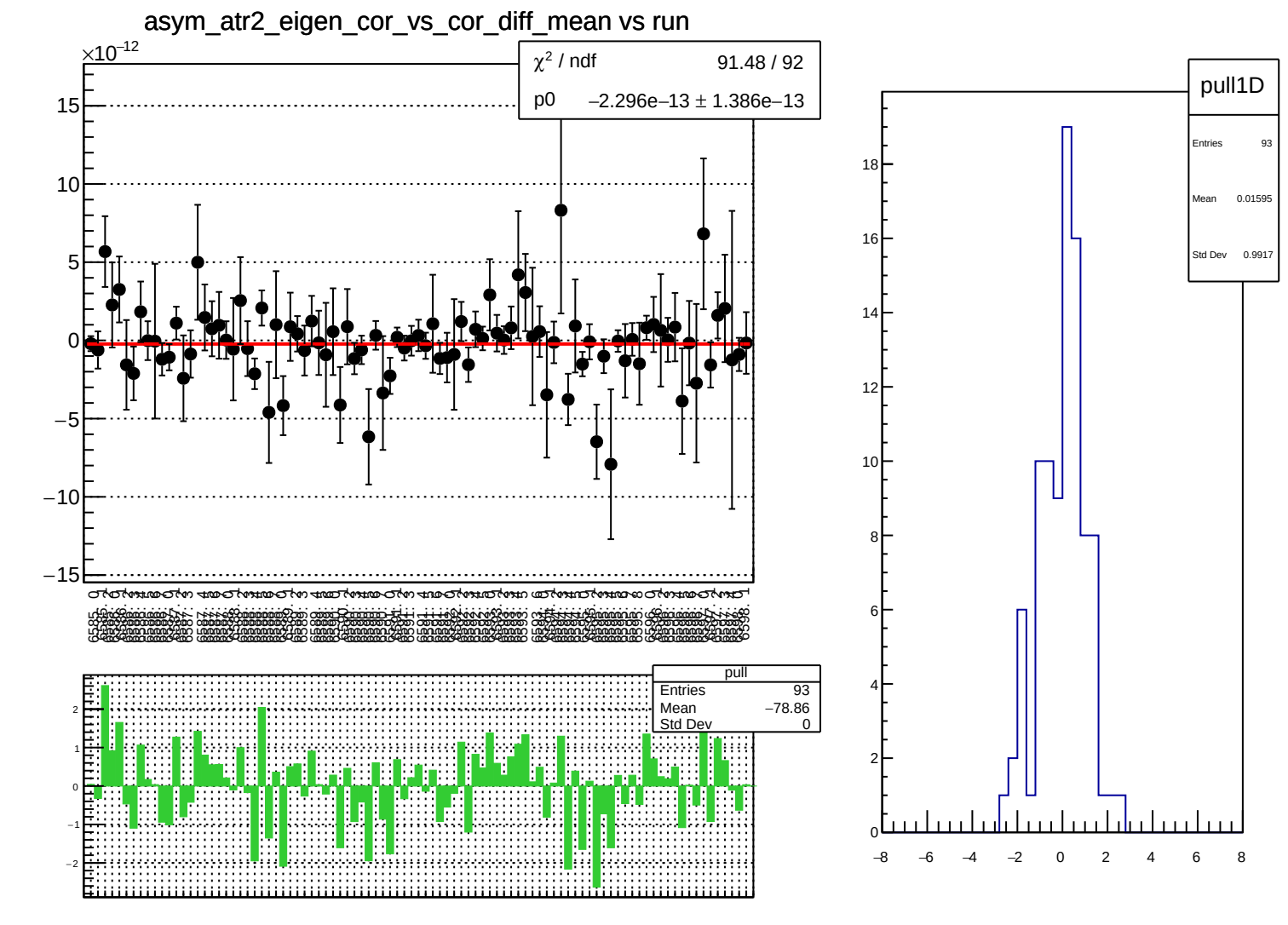

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5076 / 92
p0 0.006803 ± 5.12e–06
0.0085
0.008
0.0075
0.007
0.0065
0.006

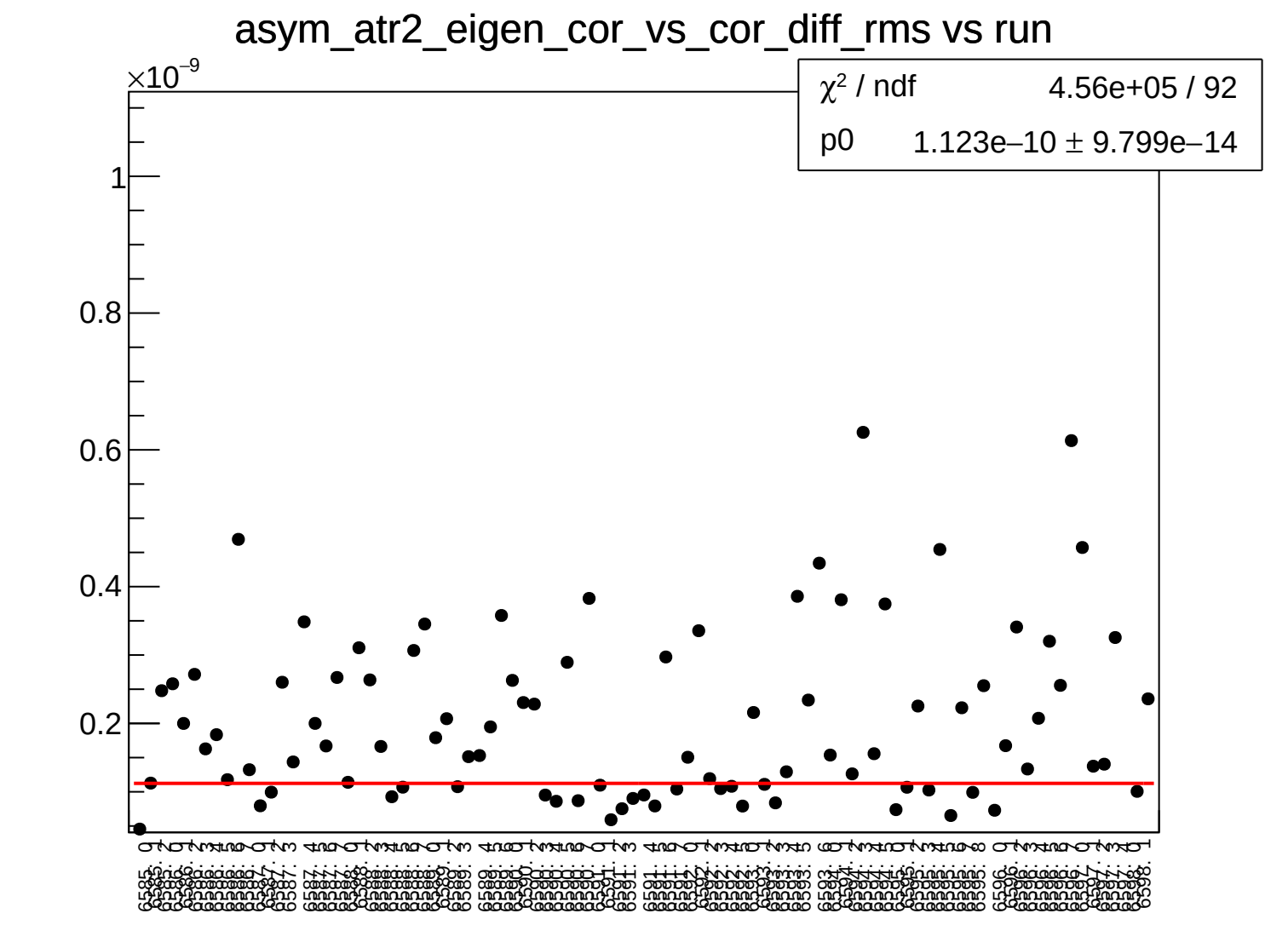

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.63 / 92
p0 −0.7077 ± 0.7084
pull
Entries 93
Mean 172.5
Std Dev 0
pull1D
Entries 93
Mean −0.001057
Std Dev 0.9195

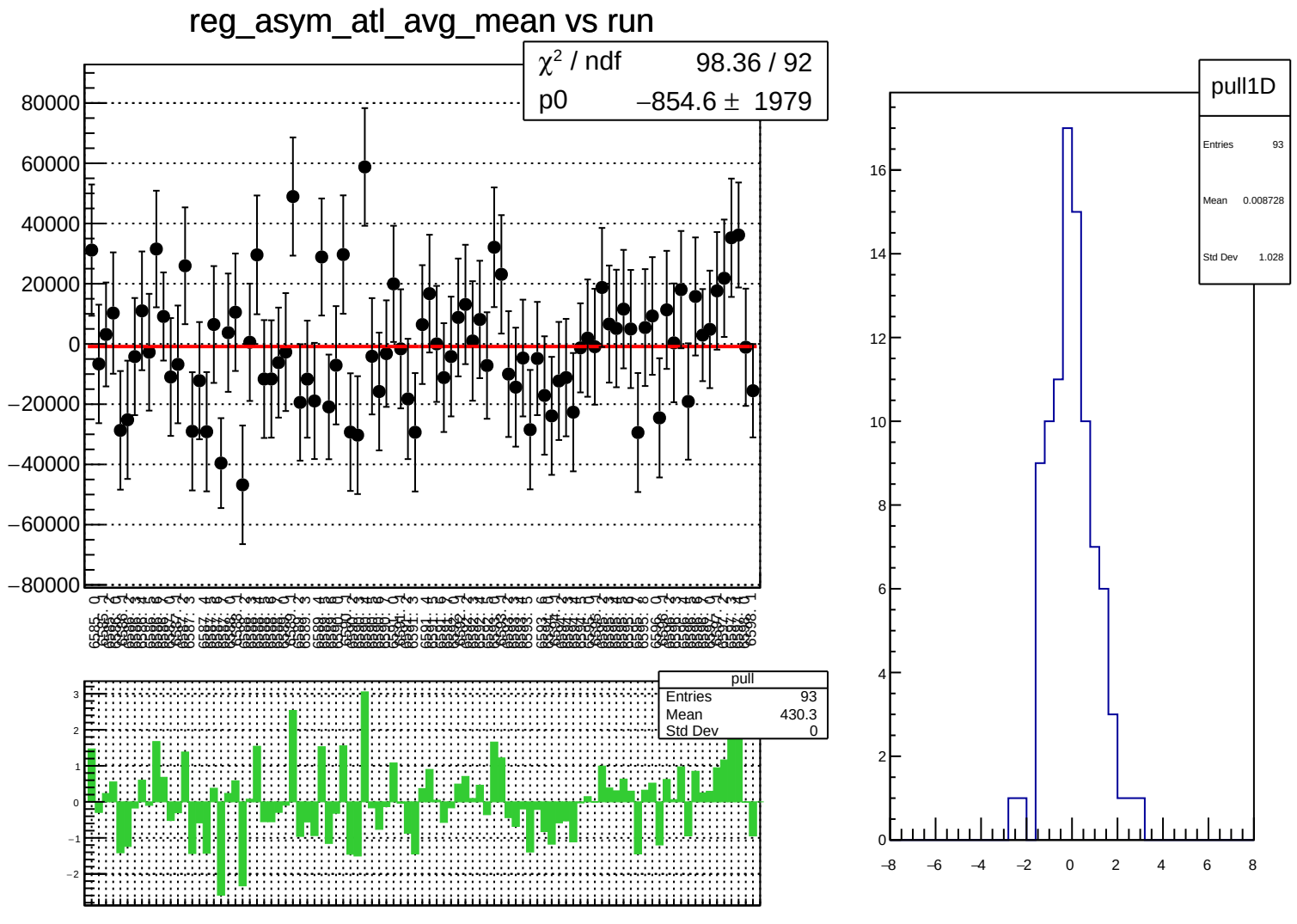

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.197e+04 / 92
p0 662.4 ± 0.5009
1000
900
800
700
600
500

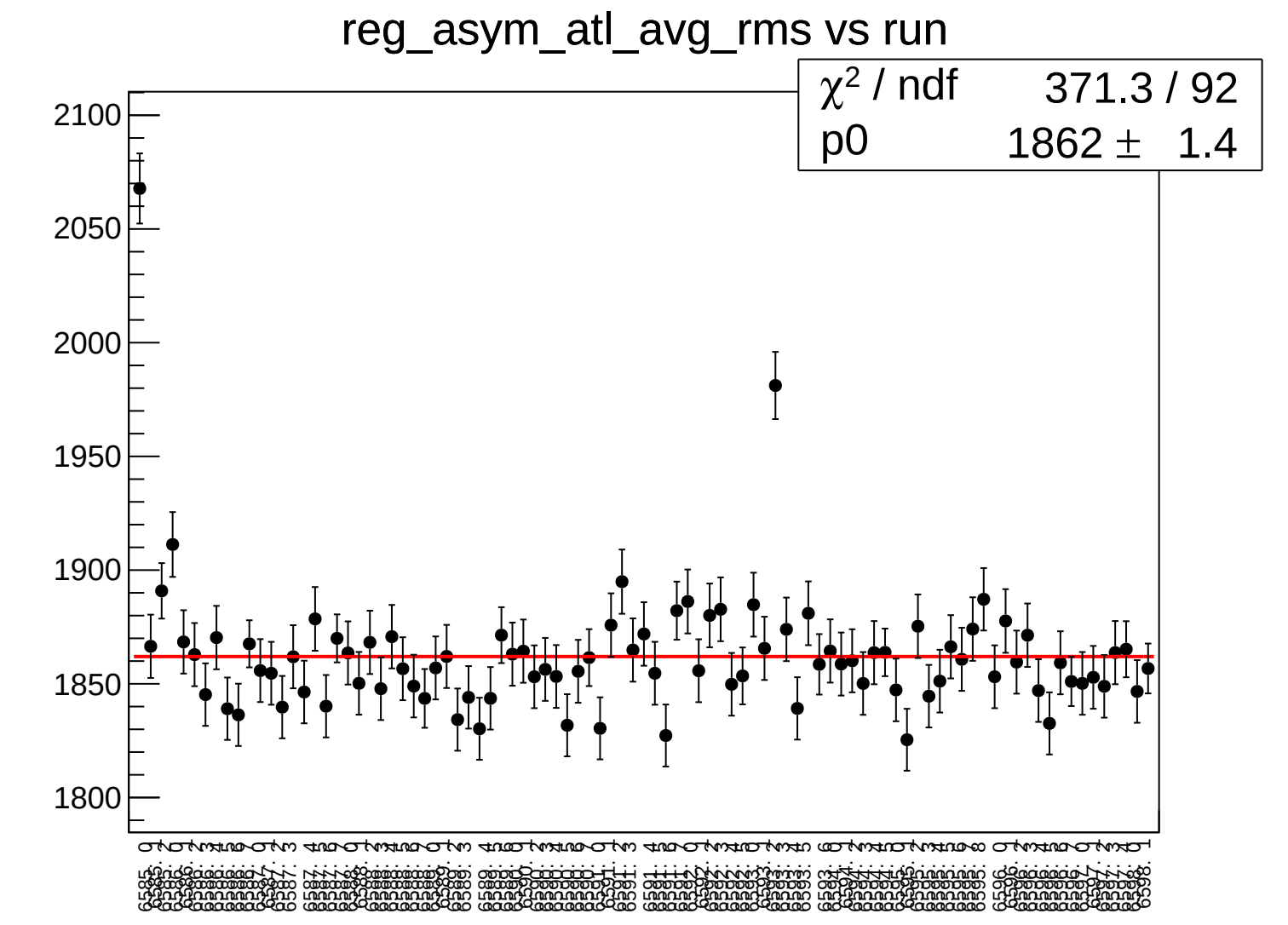

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.63 / 92
p0 −0.7077 ± 0.7084
20
10
0
−10
−20
−30
pull
Entries 93
Mean 172.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001057
Std Dev 0.9195
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

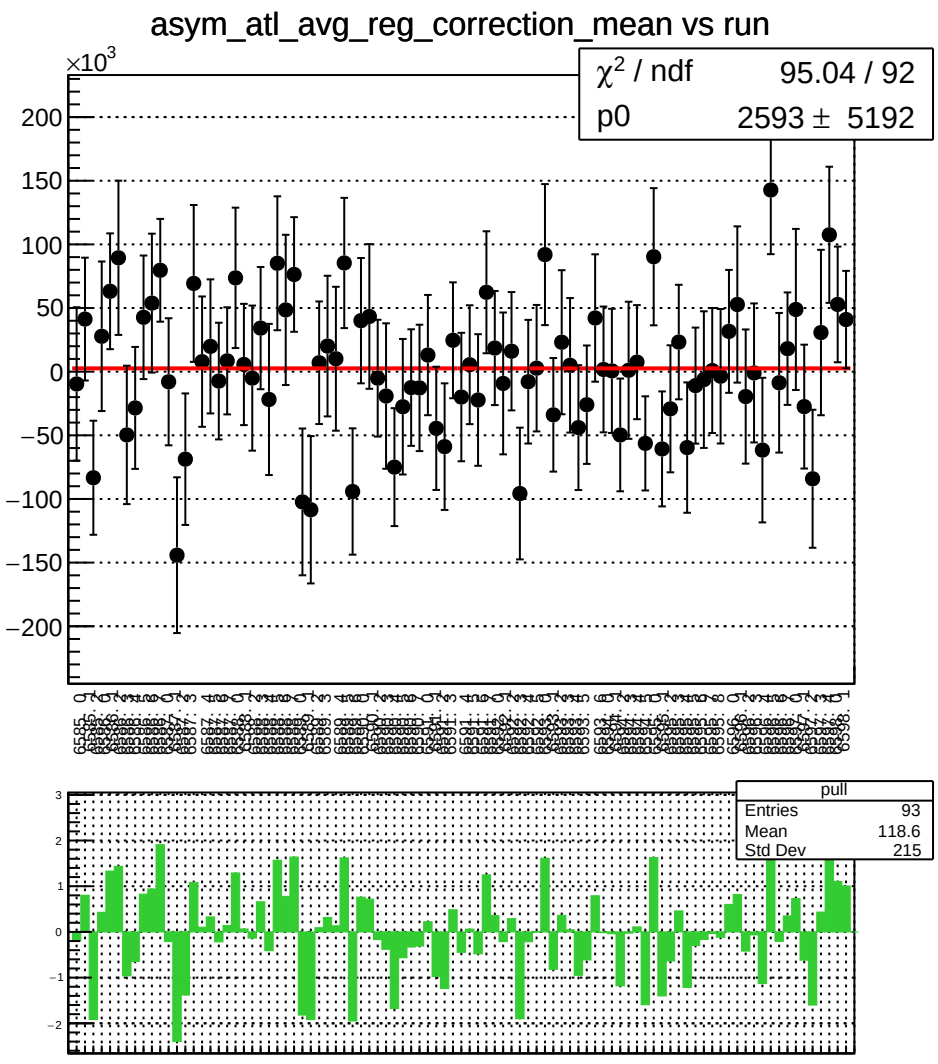

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.197e+04 / 92
p0 662.4 ± 0.5009
1000
900
800
700
600
500

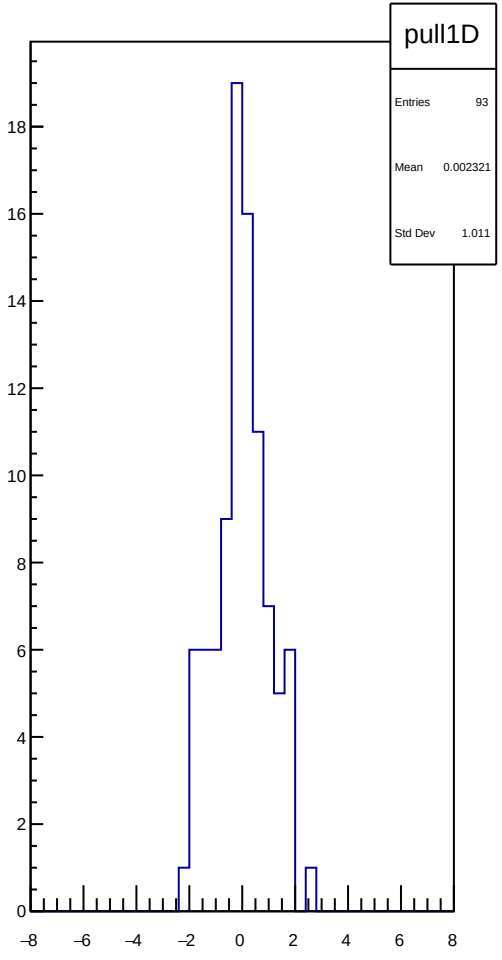

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.48 / 92
p0 −2.296e−13 ± 1.386e−13
pull
Entries 93
Mean −78.86
Std Dev 0
pull1D
Entries 93
Mean 0.01595
Std Dev 0.9917

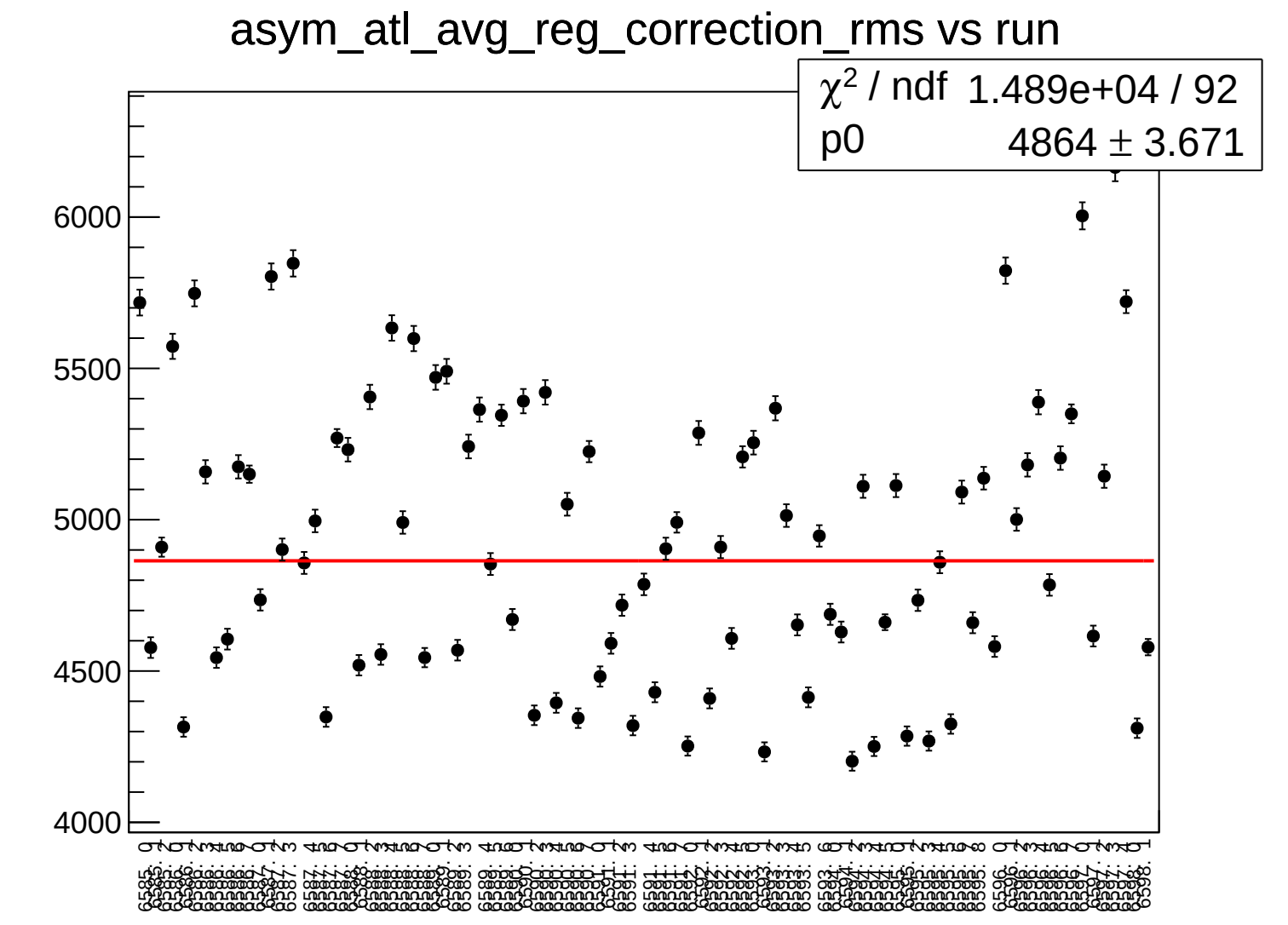

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.56e+05 / 92
p0 1.123e−10 ± 9.799e−14
1
0.8
0.6
0.4
0.2

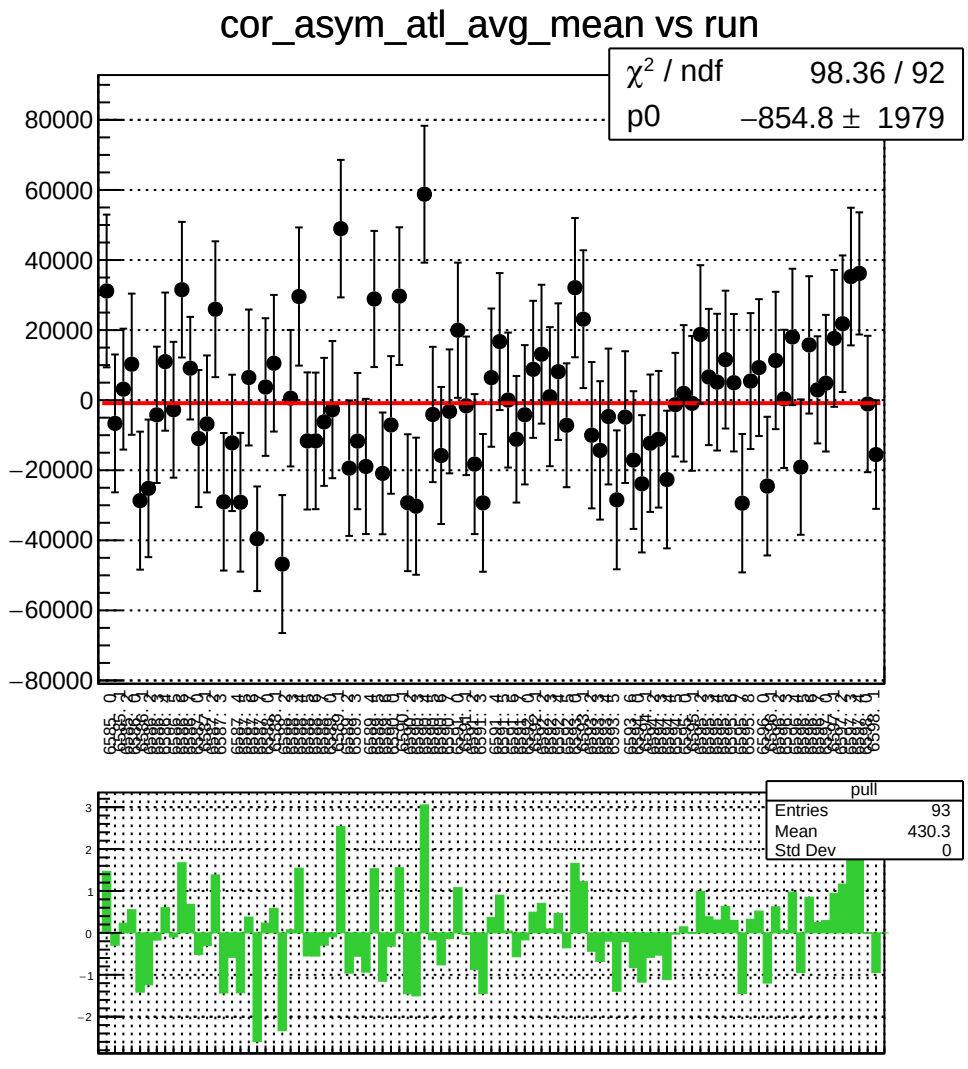

reg_asym_atl_avg_mean vs run
χ² / ndf 98.36 / 92
p0 −854.6 ± 1979
pull
Entries 93
Mean 430.3
Std Dev 0
pull1D
Entries 93
Mean 0.008728
Std Dev 1.028

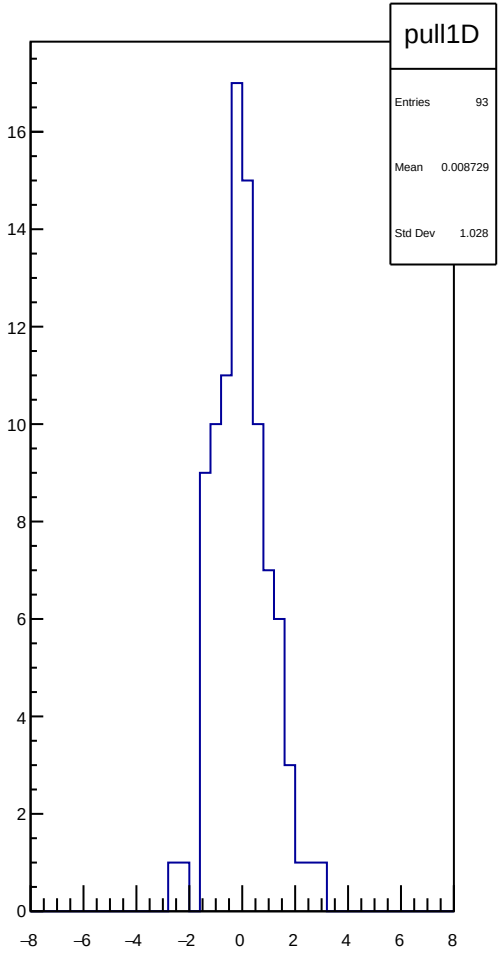

reg_asym_atl_avg_rms vs run
χ² / ndf 371.3 / 92
p0 1862 ± 1.4
2100
2050
2000
1950
1900
1850
1800

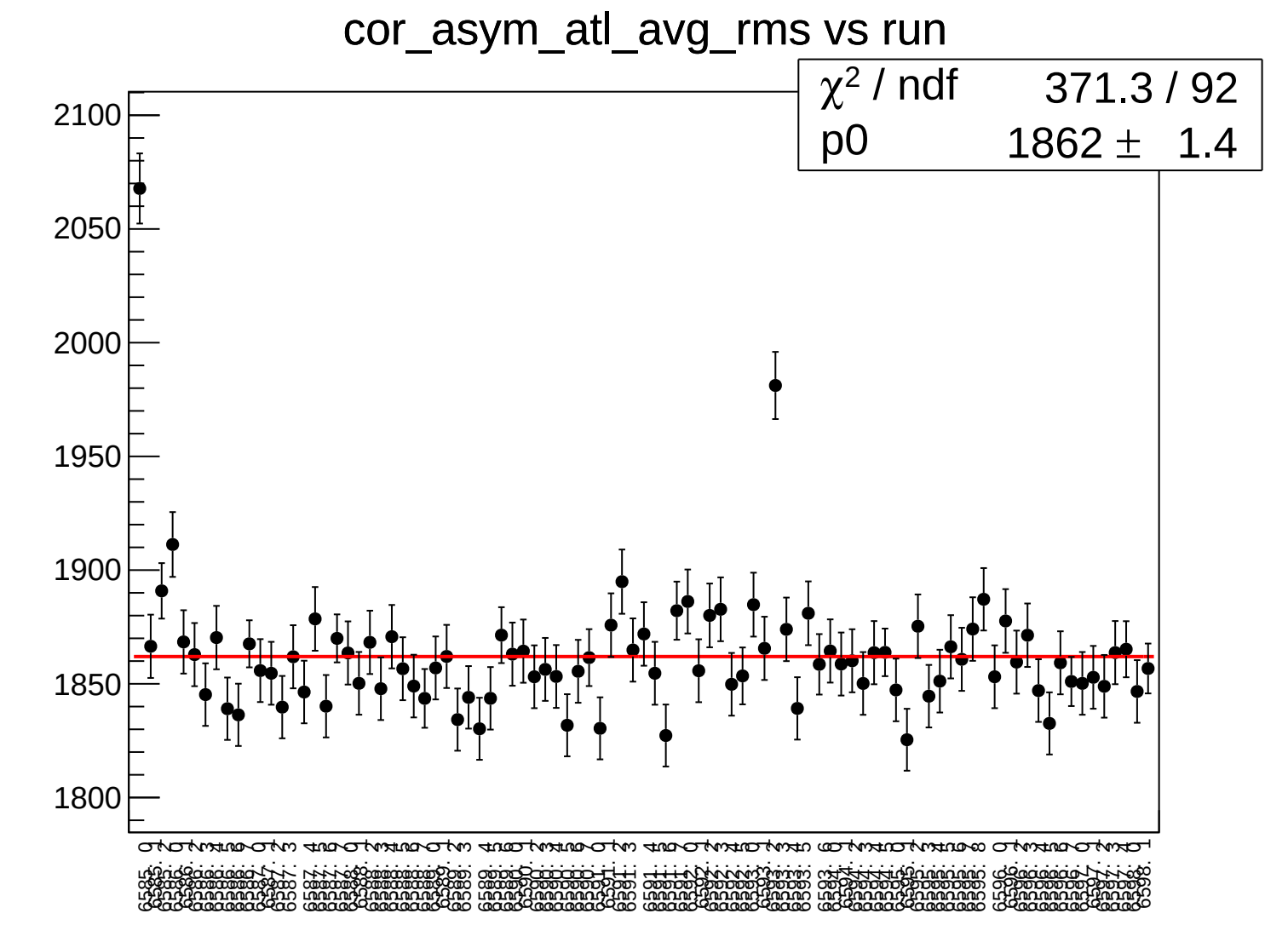

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.04 / 92
p0 2593 ± 5192
pull
Entries 93
Mean 118.6
Std Dev 215

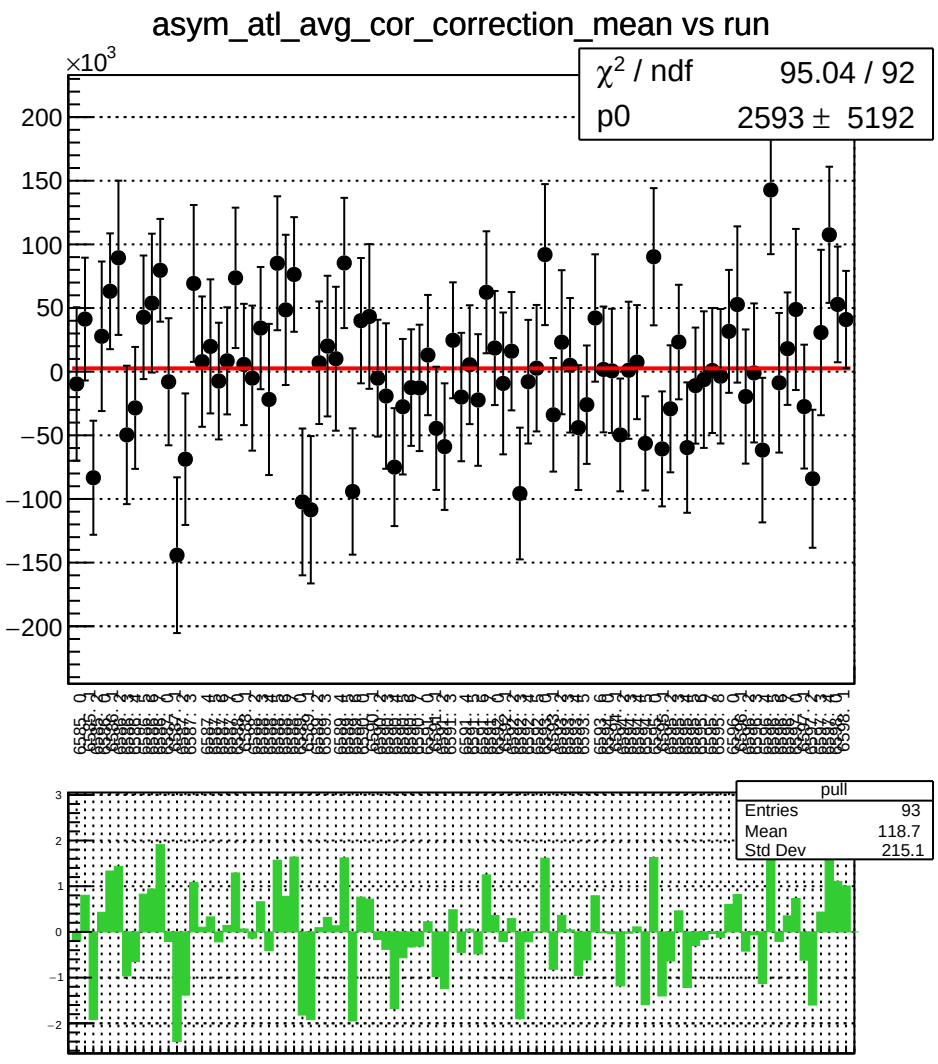

pull1D
Entries 93
Mean 0.002321
Std Dev 1.011

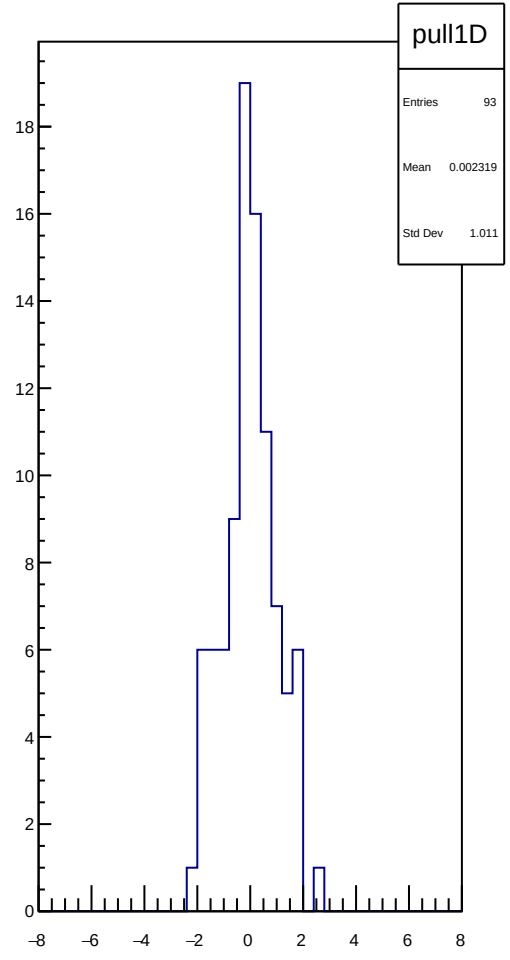

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.489e+04 / 92
p0 4864 ± 3.671
6000
5500
5000
4500
4000

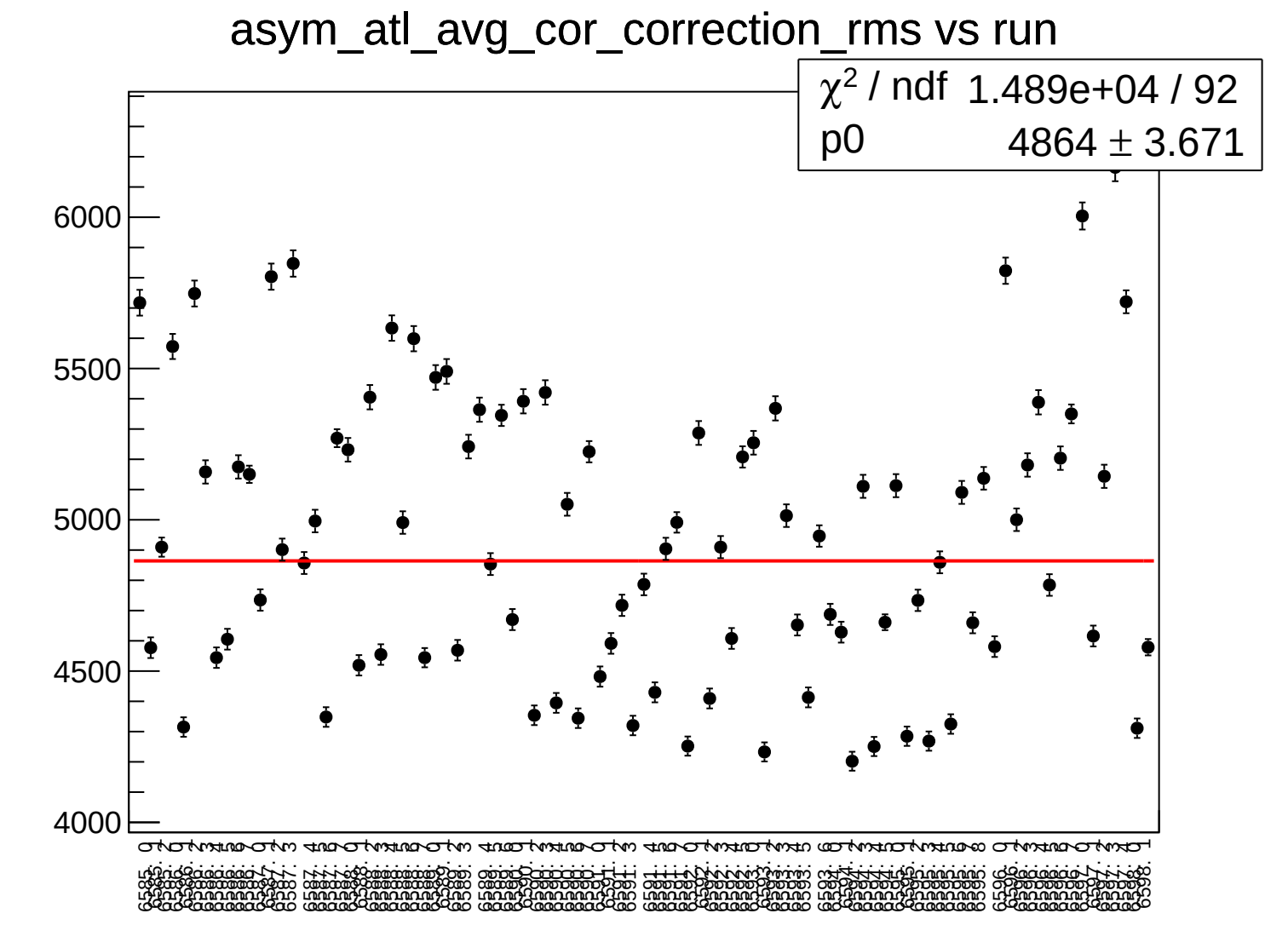

cor_asym_atl_avg_mean vs run
χ² / ndf 98.36 / 92
p0 −854.8 ± 1979
pull
Entries 93
Mean 430.3
Std Dev 0

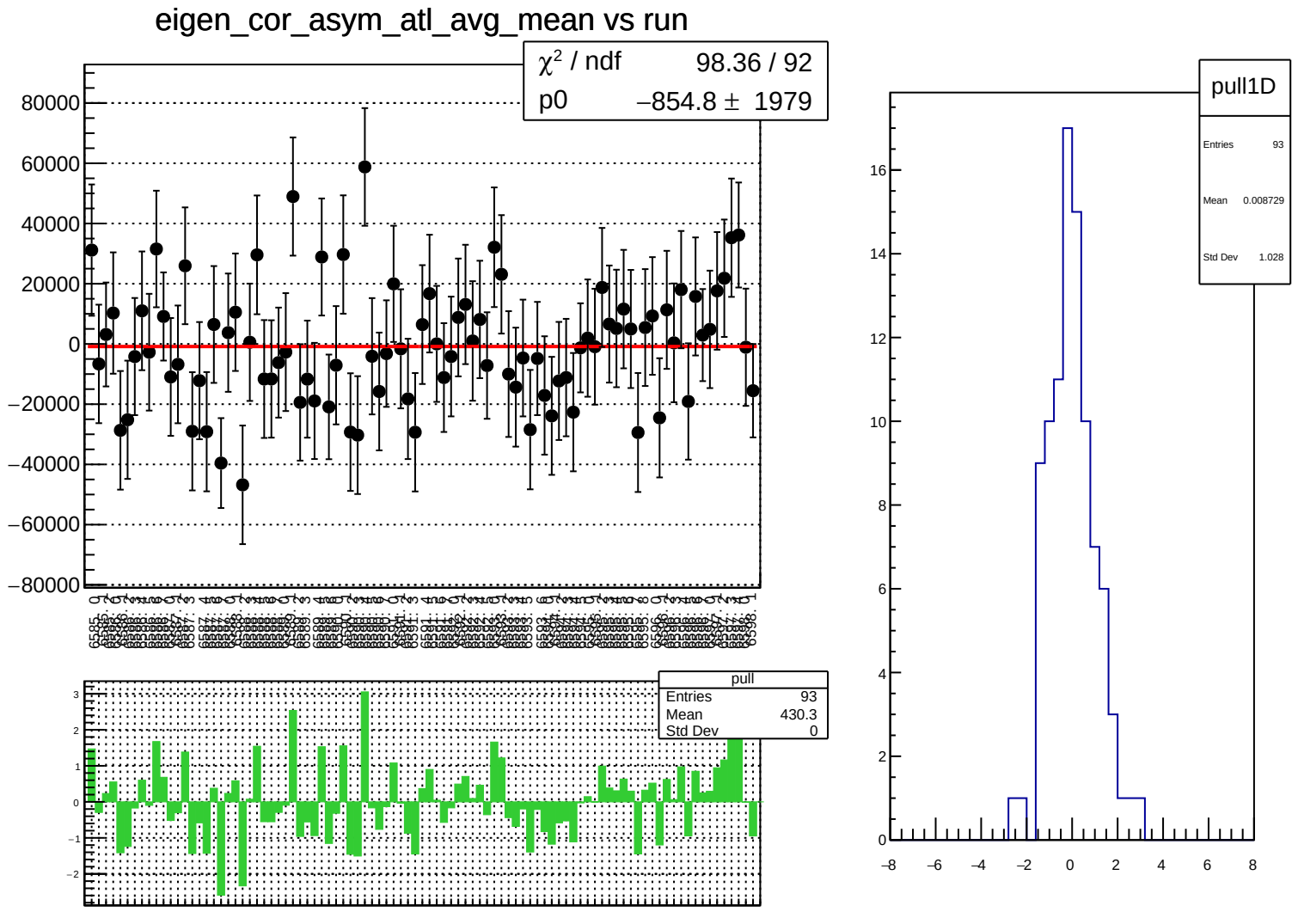

pull1D
Entries 93
Mean 0.008729
Std Dev 1.028

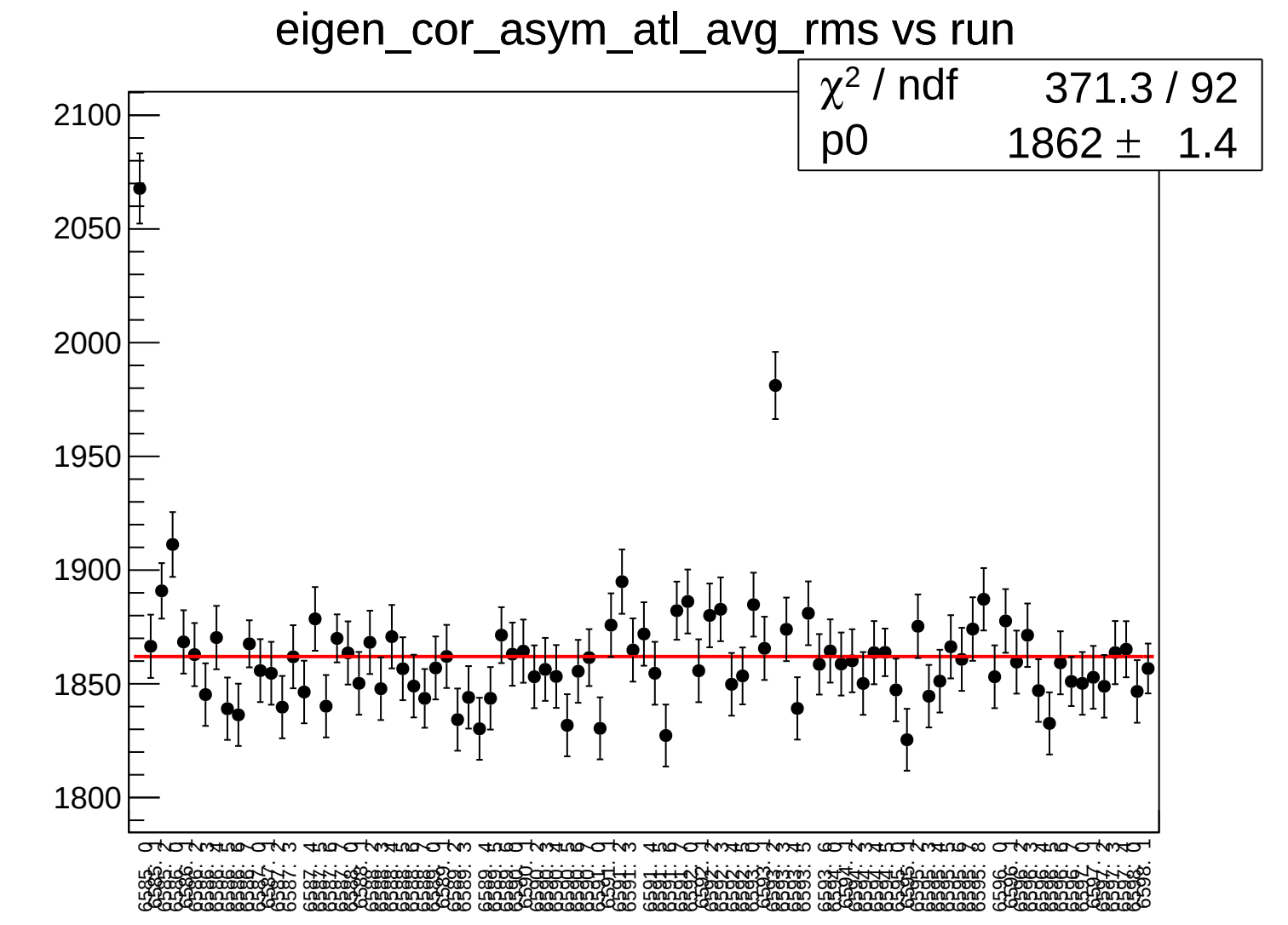

cor_asym_atl_avg_rms vs run
χ^2 / ndf 371.3 / 92
p0 1862 ± 1.4
2100
2050
2000
1950
1900
1850
1800

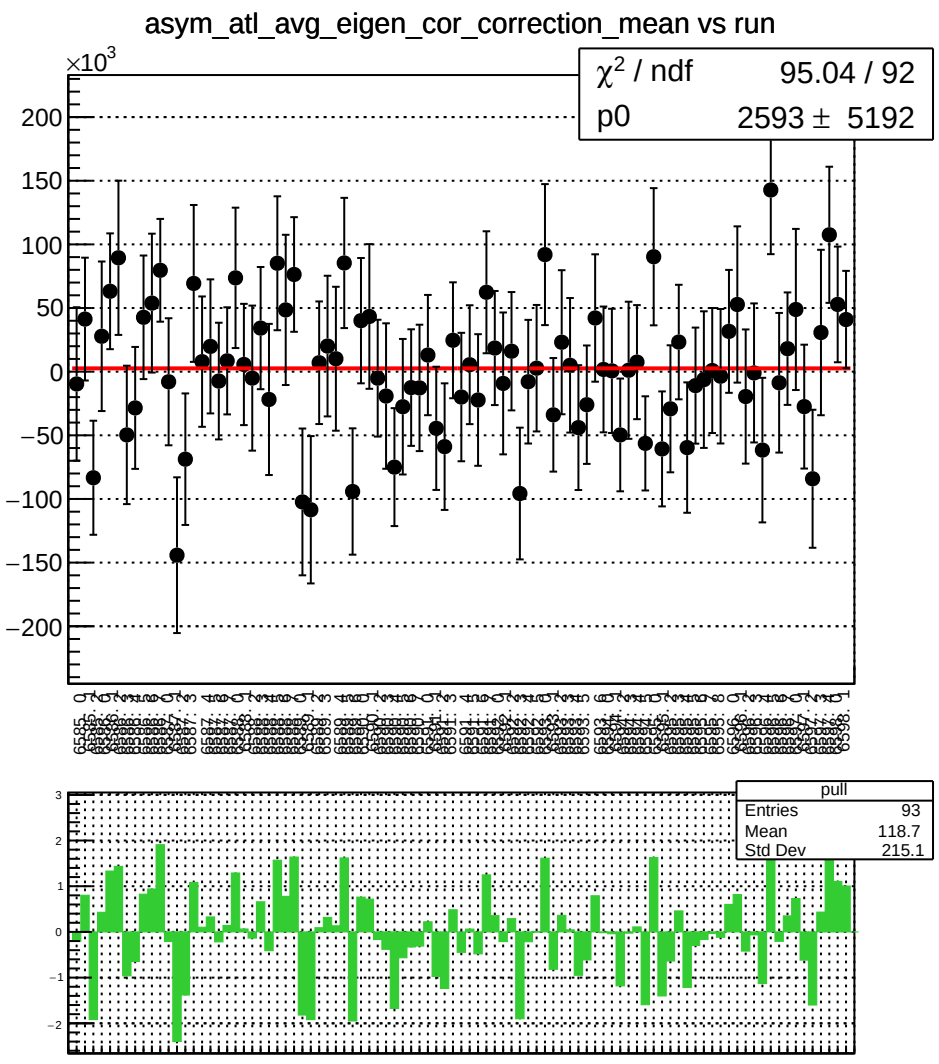

asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.04 / 92
p0 2593 ± 5192
pull
Entries 93
Mean 118.7
Std Dev 215.1

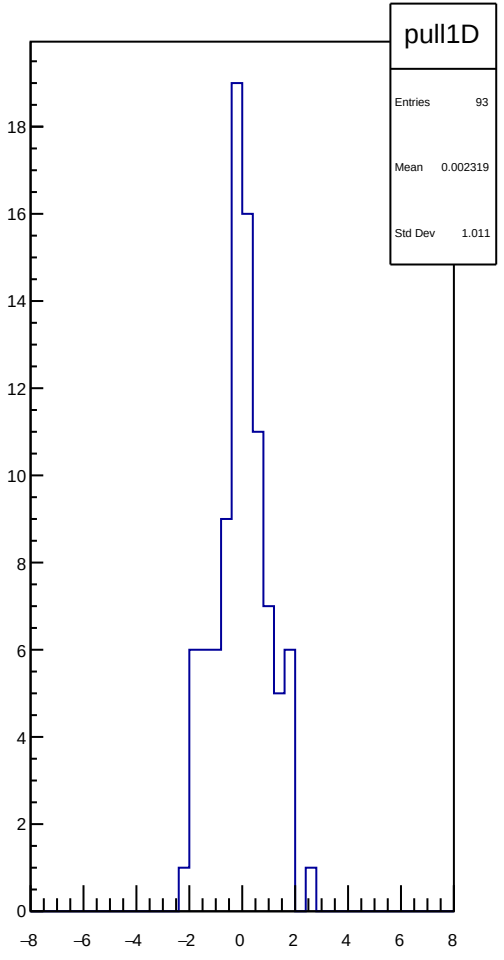

pull1D
Entries 93
Mean 0.002319
Std Dev 1.011

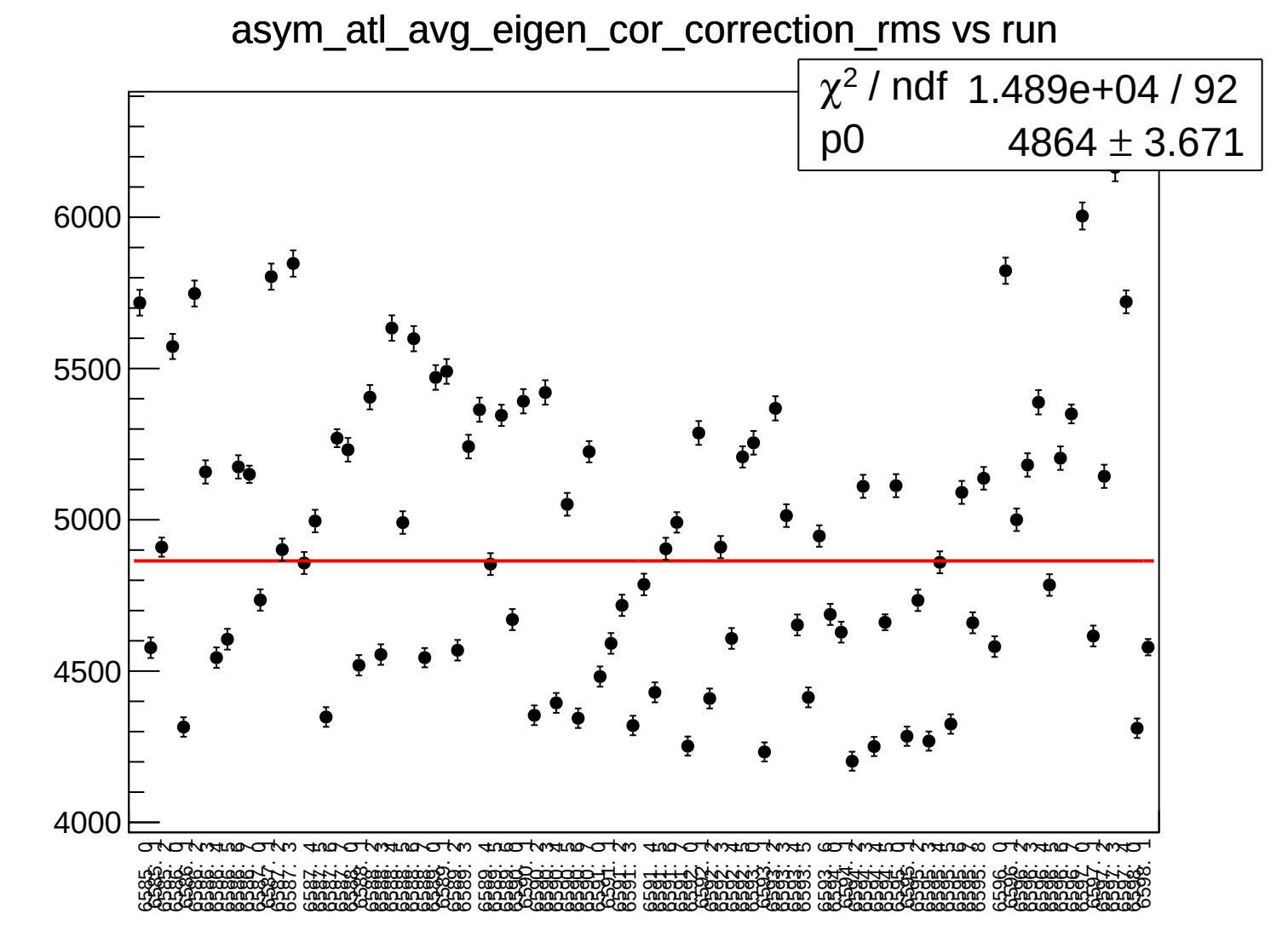

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.489e+04 / 92
p0 4864 ± 3.671
6000
5500
5000
4500
4000

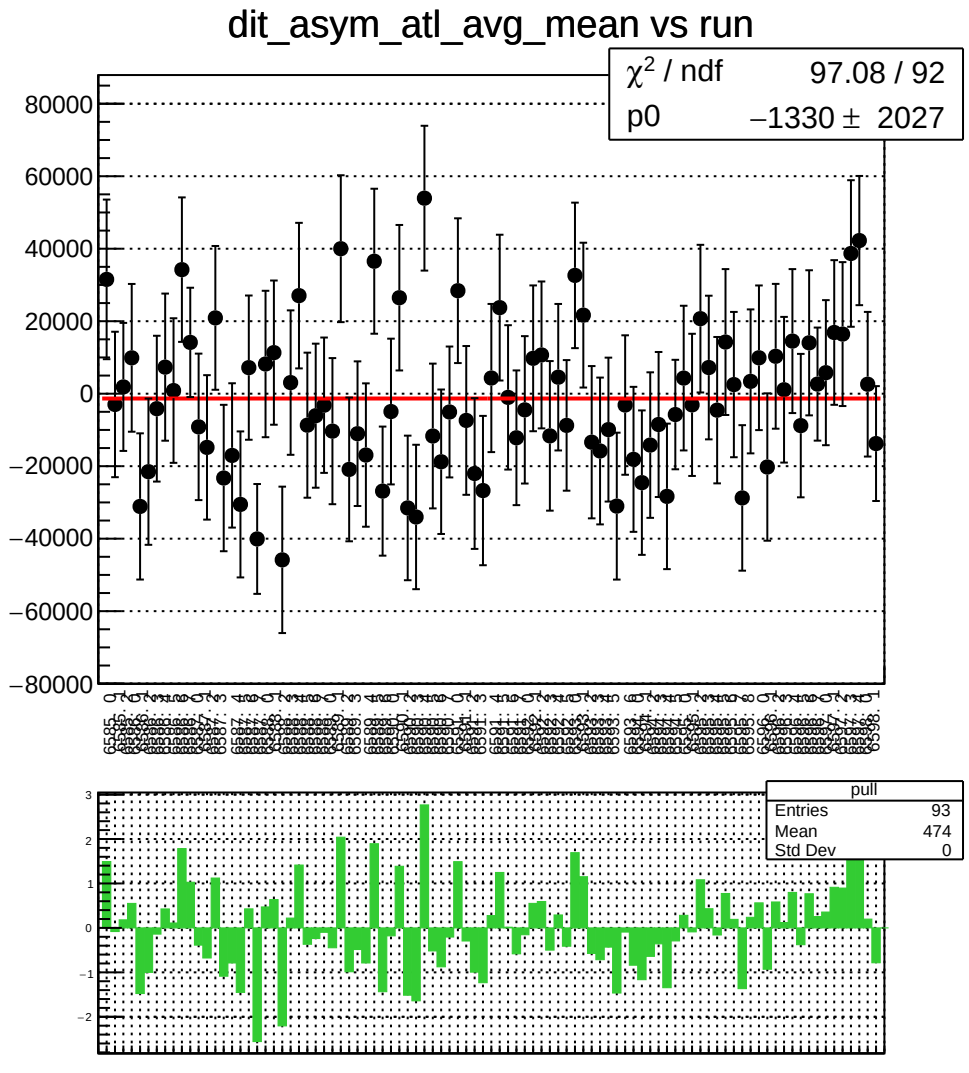

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 98.36 / 92
p0 −854.8 ± 1979
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 430.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.008729
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

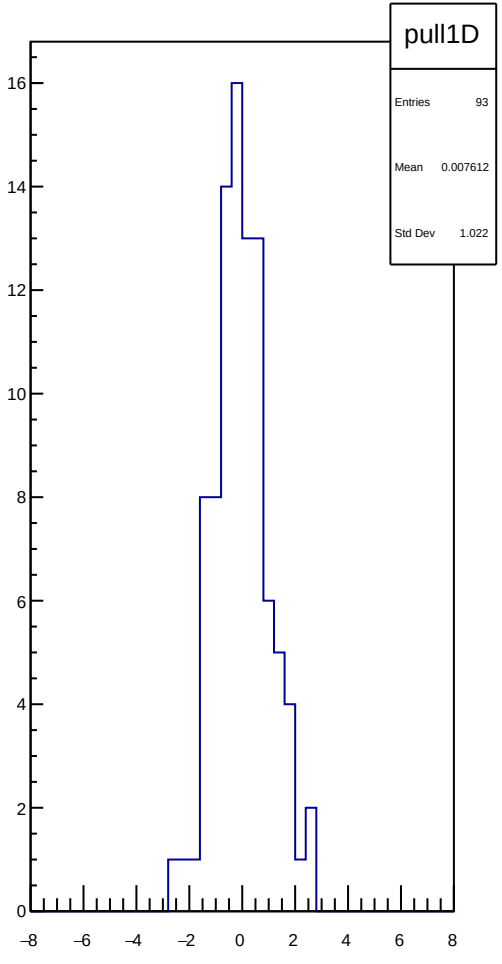

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 371.3 / 92
p0 1862 ± 1.4
2100
2050
2000
1950
1900
1850
1800

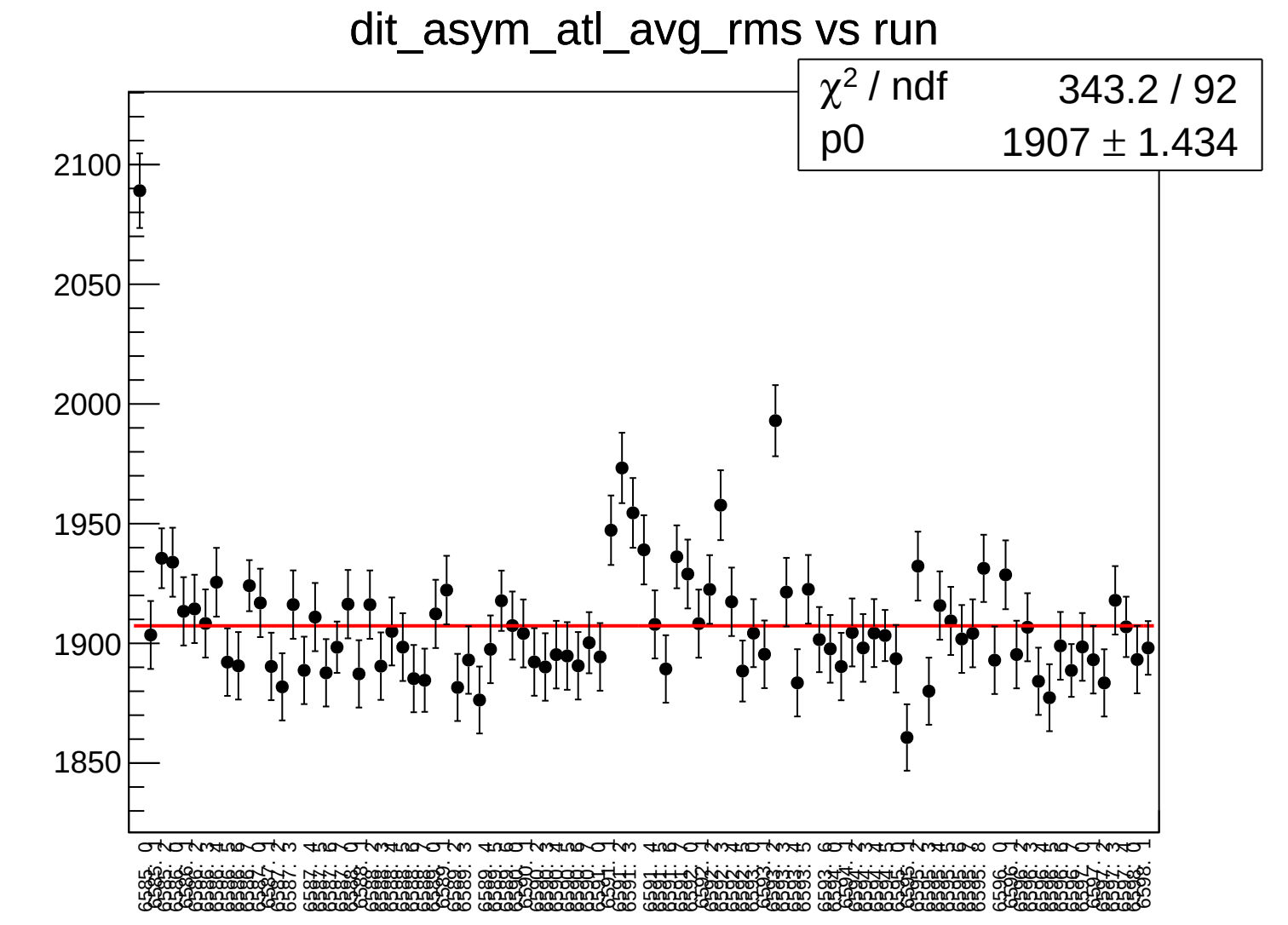

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.04 / 92
p0 2593 ± 5192
pull
Entries 93
Mean 118.7
Std Dev 215.1

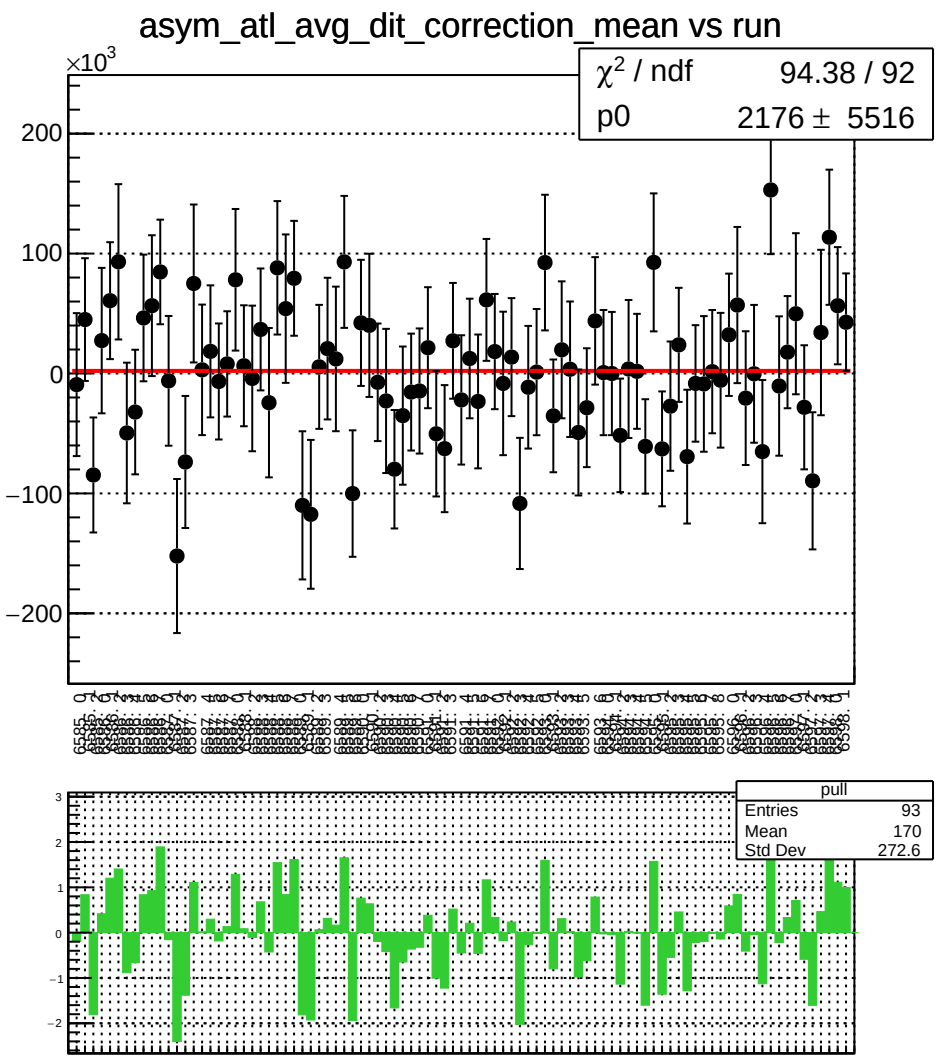

pull1D
Entries 93
Mean 0.002319
Std Dev 1.011

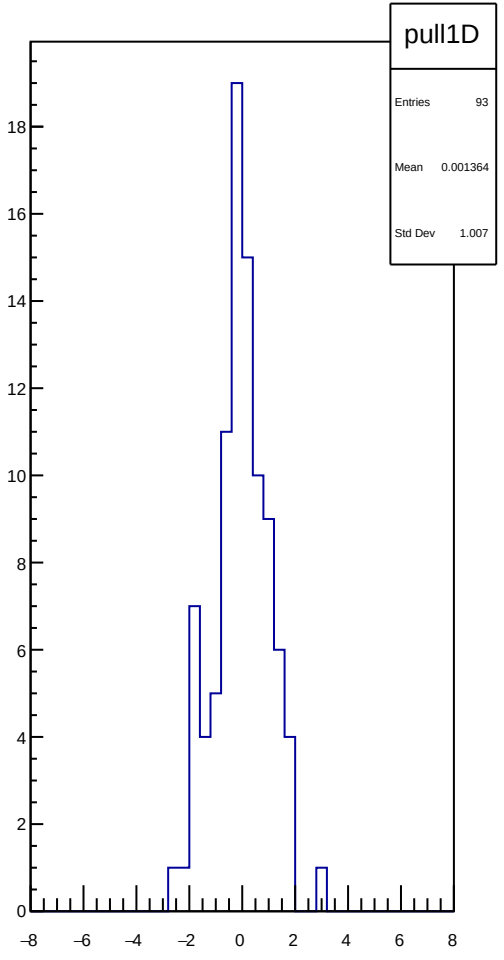

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.489e+04 / 92
p0 4864 ± 3.671
6000
5500
5000
4500
4000

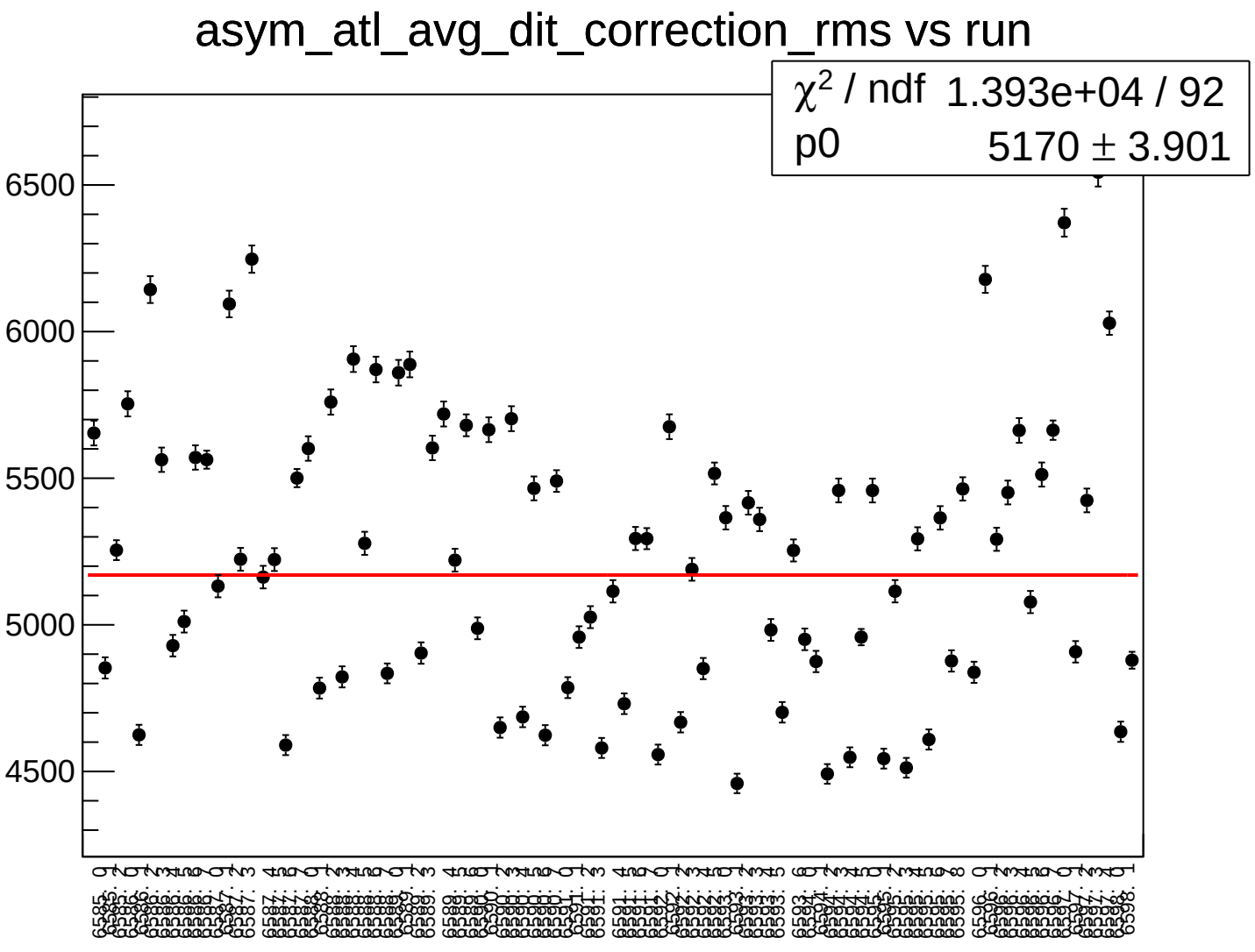

dit_asym_atl_avg_mean vs run
χ² / ndf 97.08 / 92
p0 −1330 ± 2027
pull
Entries 93
Mean 474
Std Dev 0

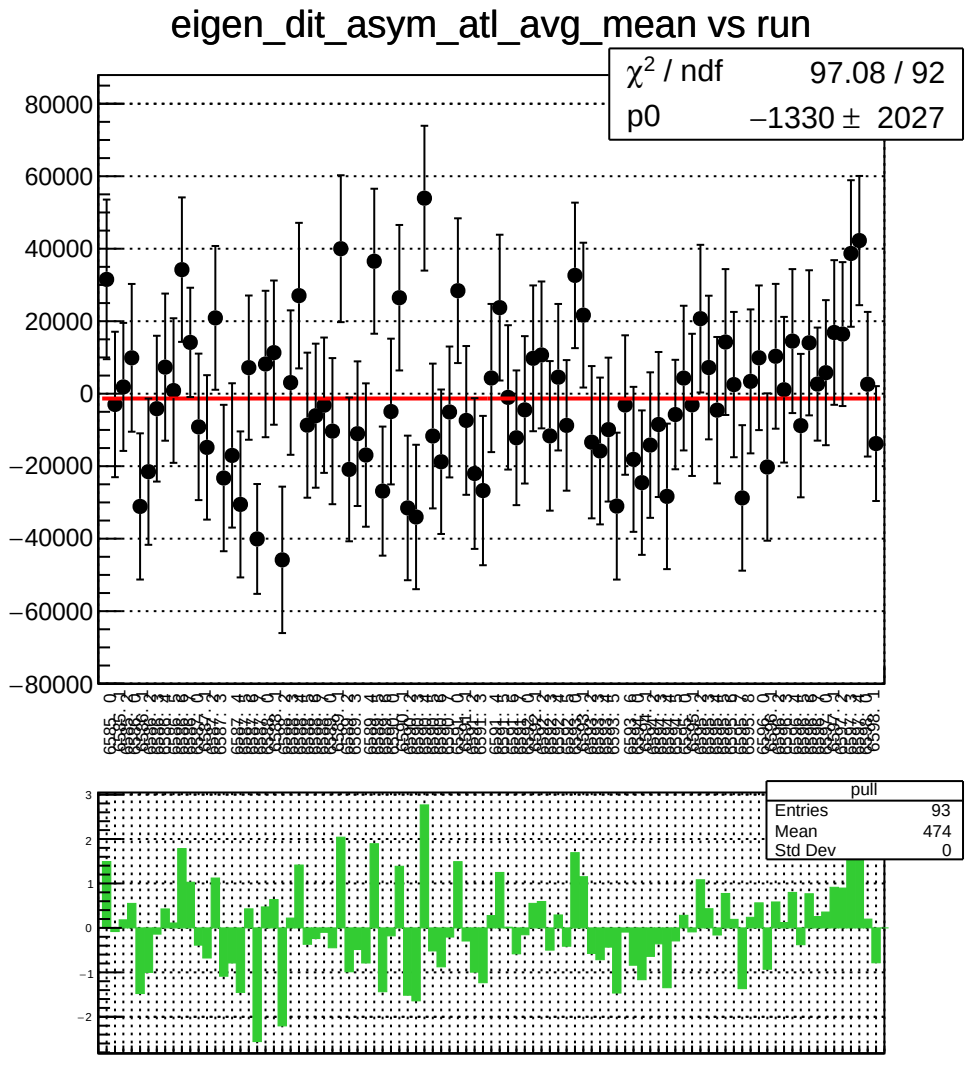

pull1D
Entries 93
Mean 0.007612
Std Dev 1.022

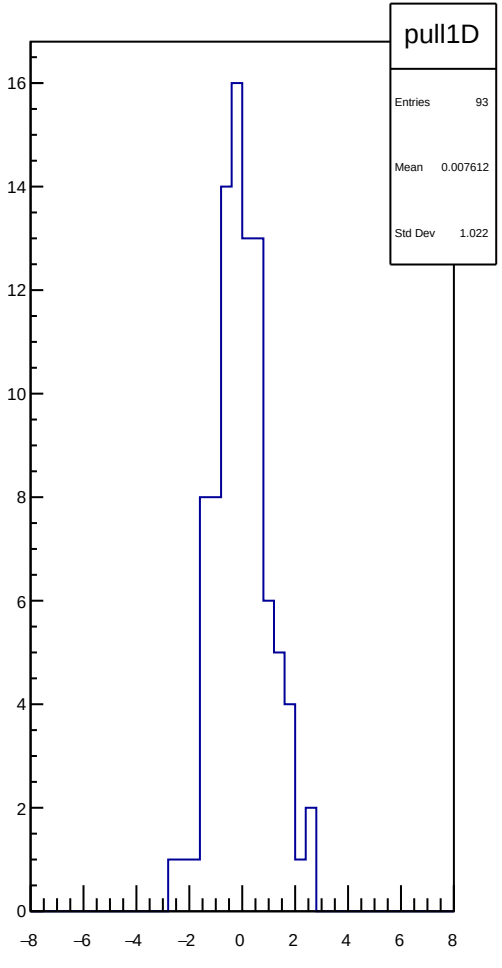

dit_asym_atl_avg_rms vs run
χ² / ndf 343.2 / 92
p0 1907 ± 1.434
2100
2050
2000
1950
1900
1850

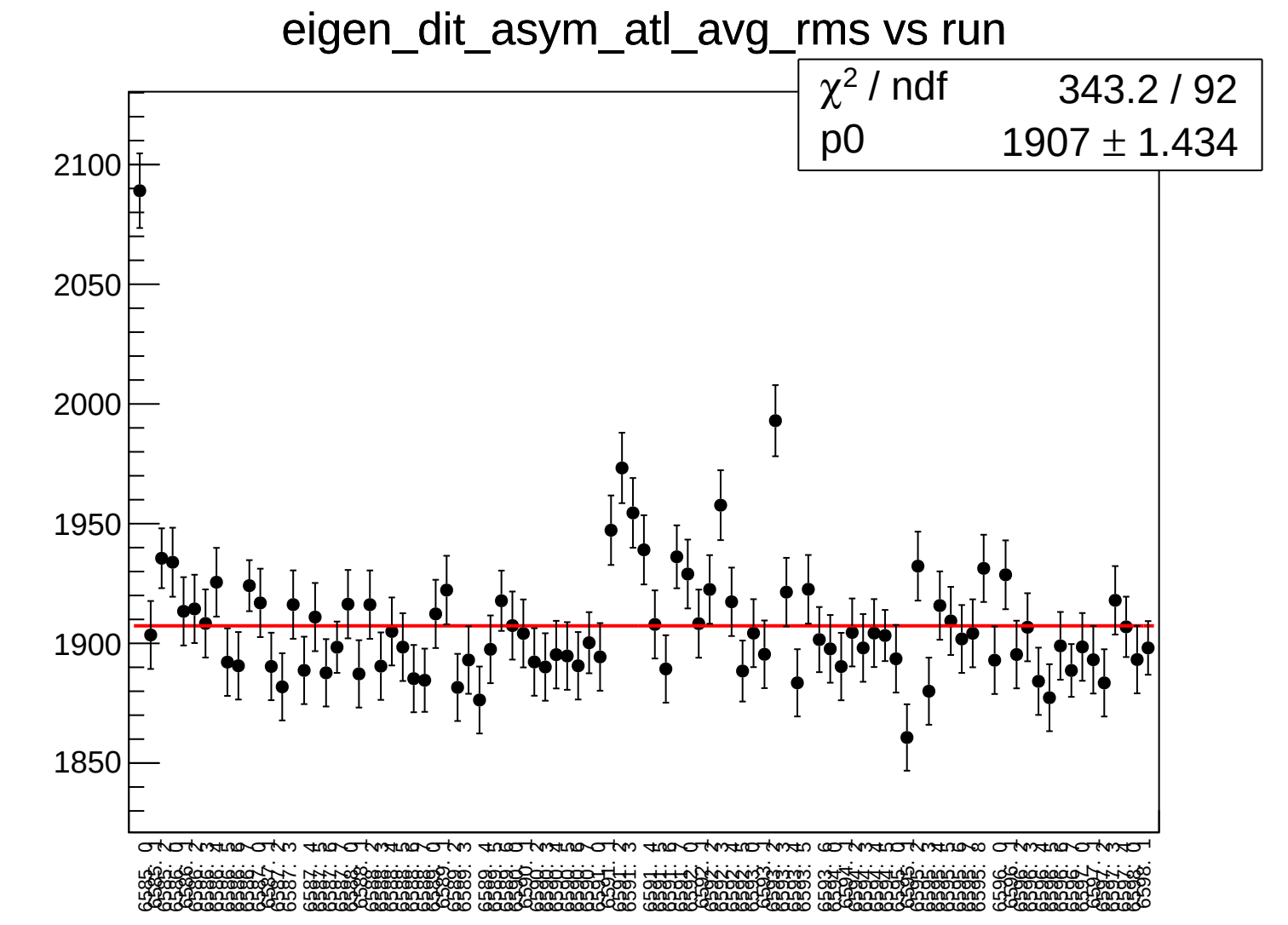

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.38 / 92
p0 2176 ± 5516
200
100
0
−100
−200
pull
Entries 93
Mean 170
Std Dev 272.6
3
2
1
0
−1
−2

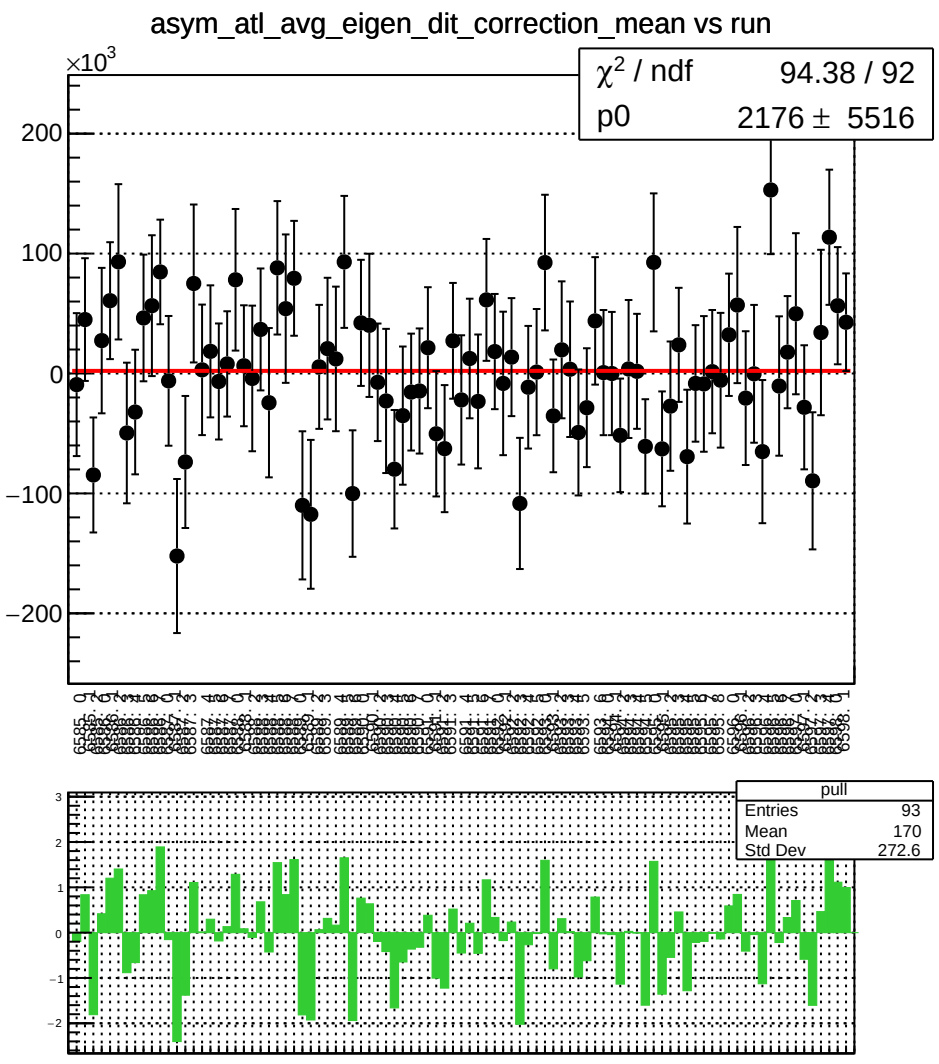

pull1D
Entries 93
Mean 0.001364
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

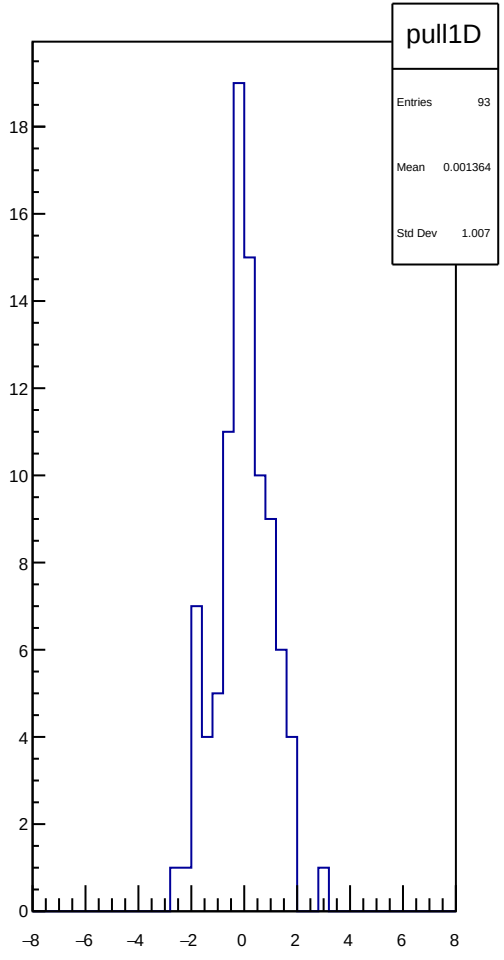

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.393e+04 / 92
p0 5170 ± 3.901
6500
6000
5500
5000
4500

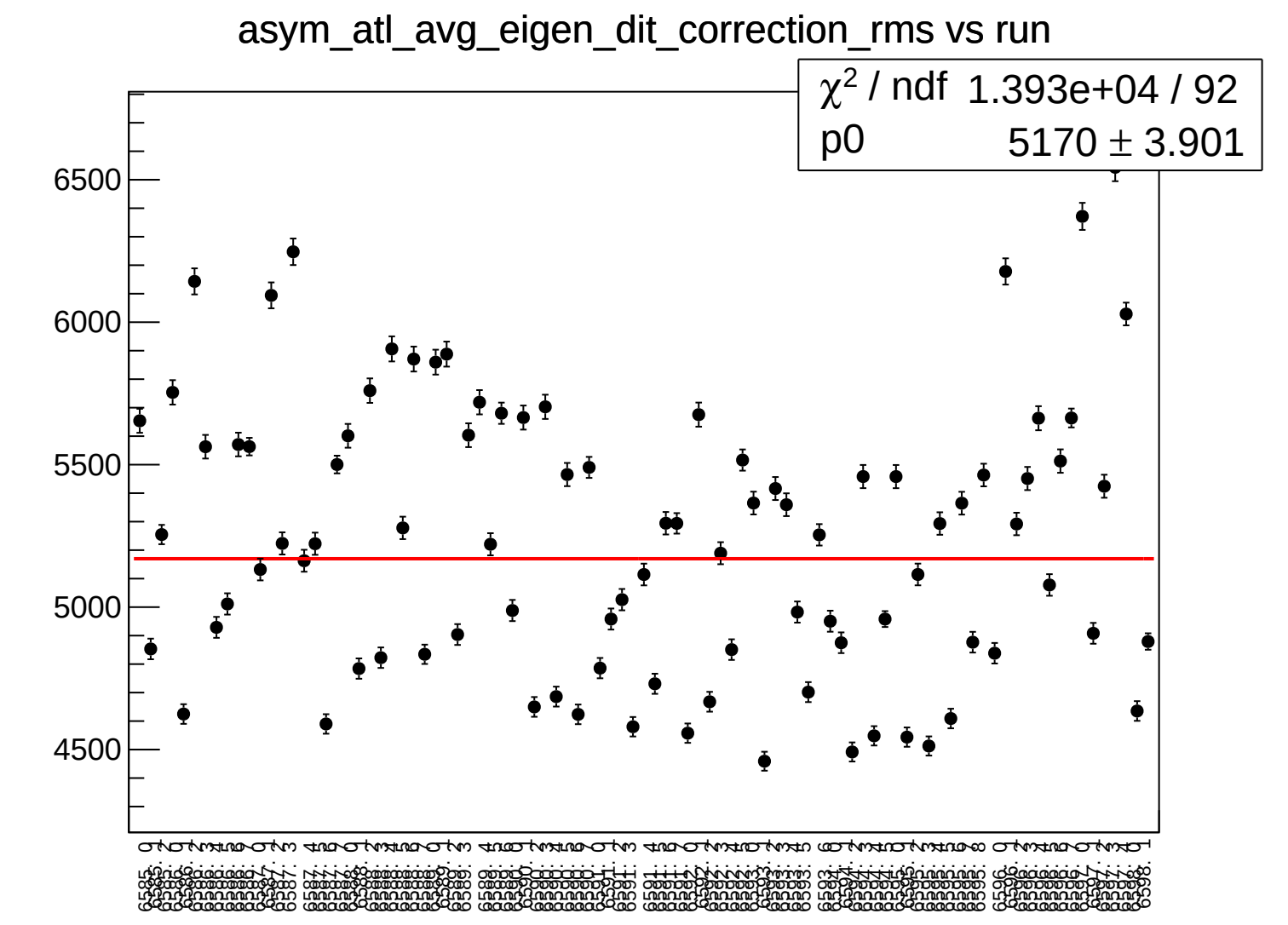

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 97.08 / 92
p0 −1330 ± 2027
pull
Entries 93
Mean 474
Std Dev 0

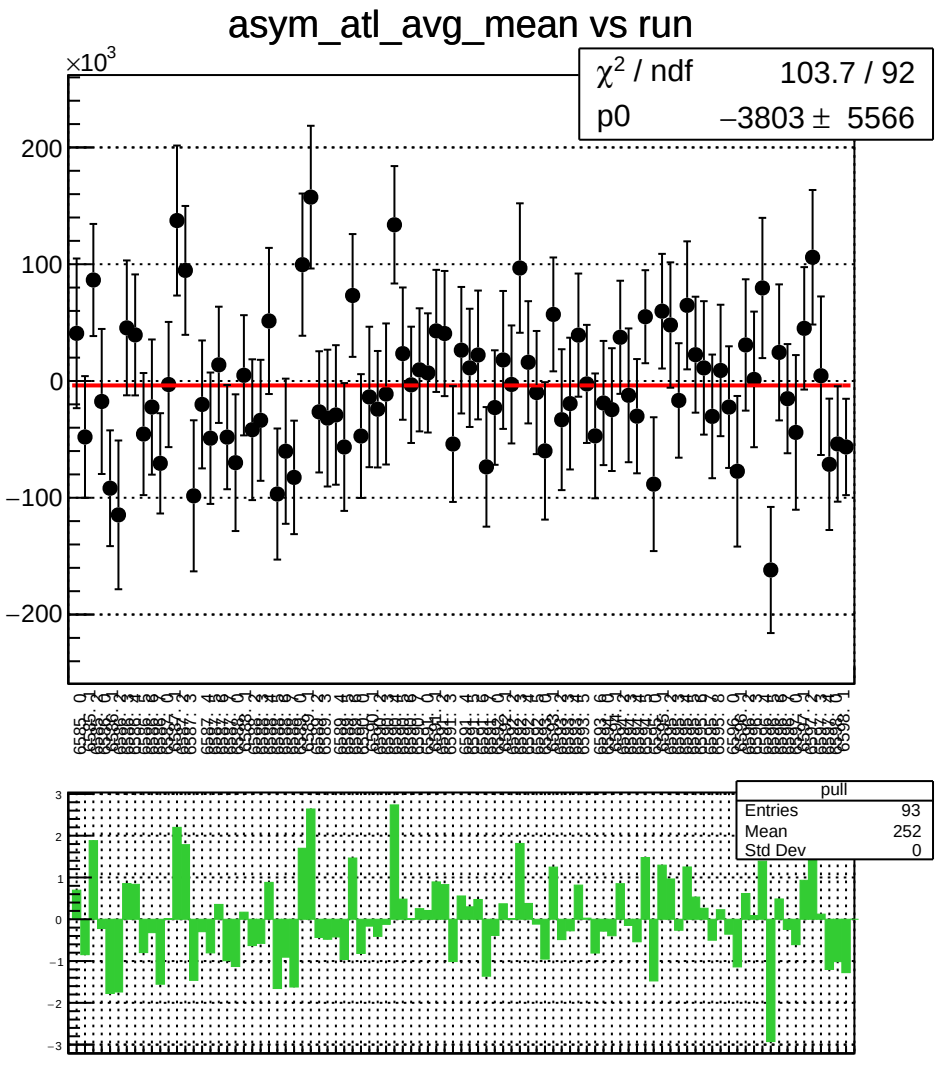

pull1D
Entries 93
Mean 0.007612
Std Dev 1.022

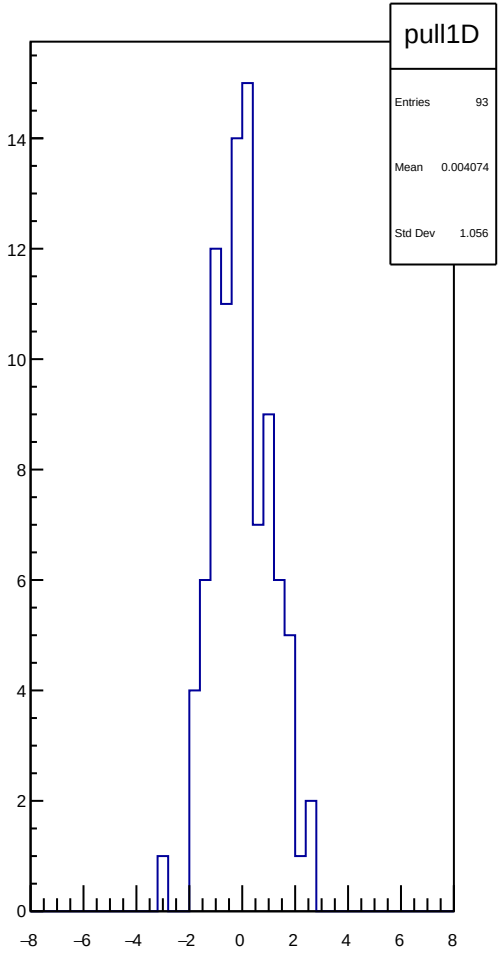

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 343.2 / 92
p0 1907 ± 1.434
2100
2050
2000
1950
1900
1850

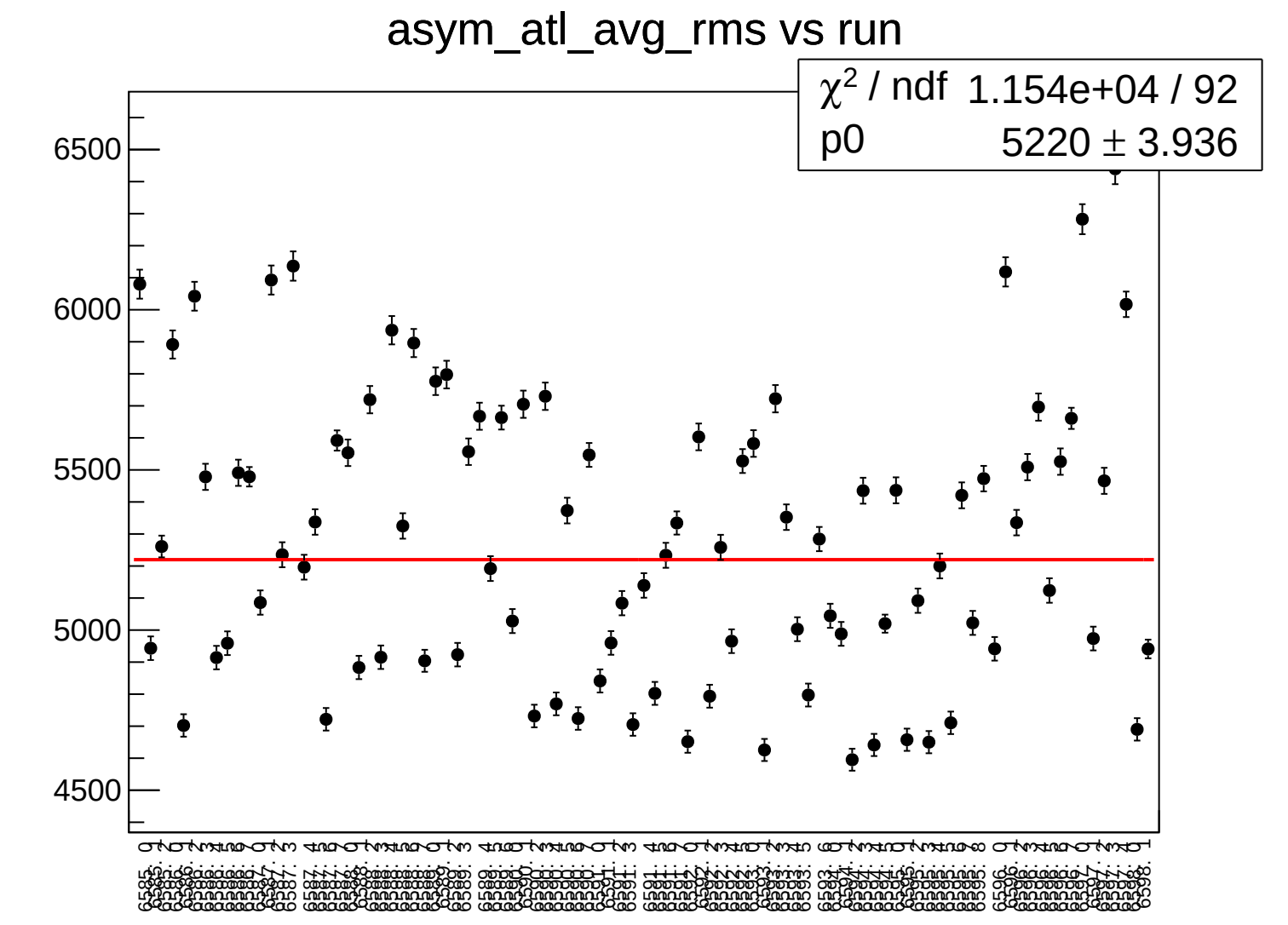

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.38 / 92
p0 2176 ± 5516
200
100
0
−100
−200
pull
Entries 93
Mean 170
Std Dev 272.6
3
2
1
0
−1
−2

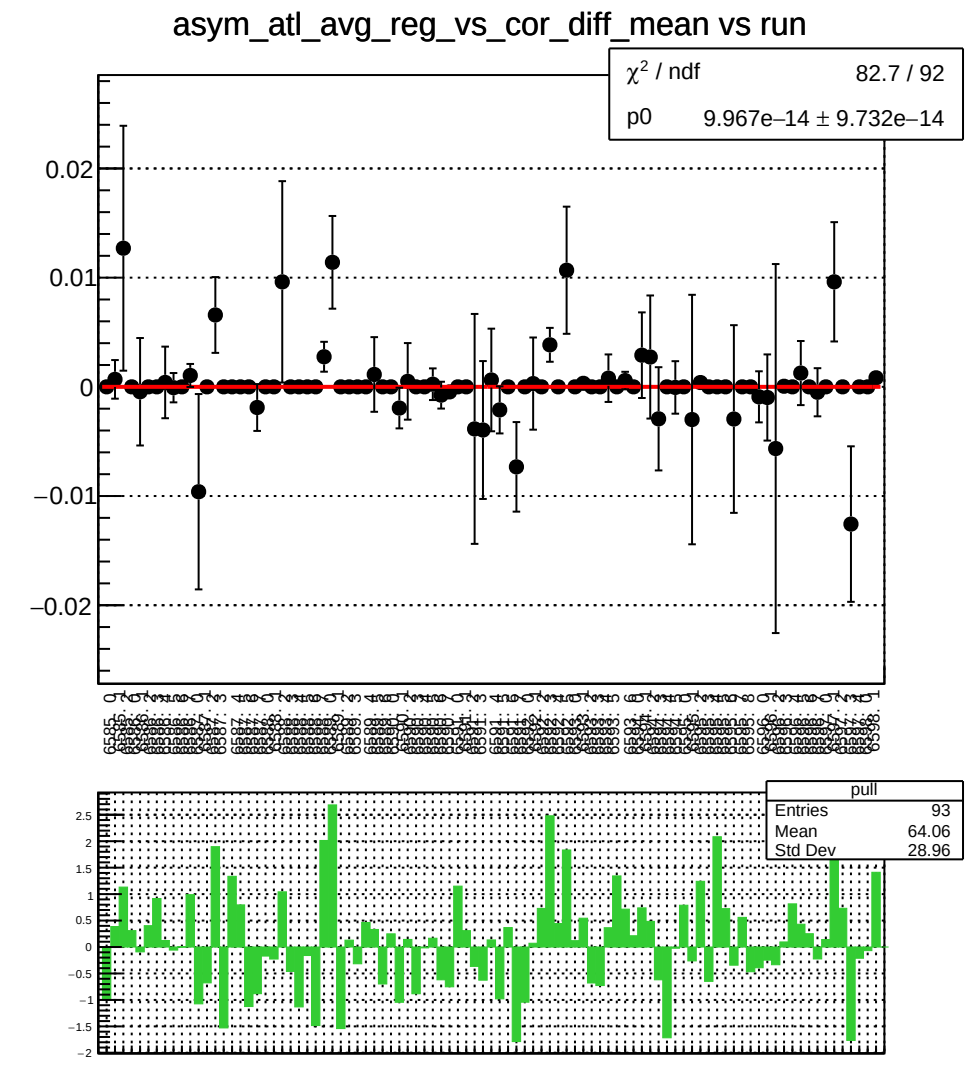

pull1D
Entries 93
Mean 0.001364
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

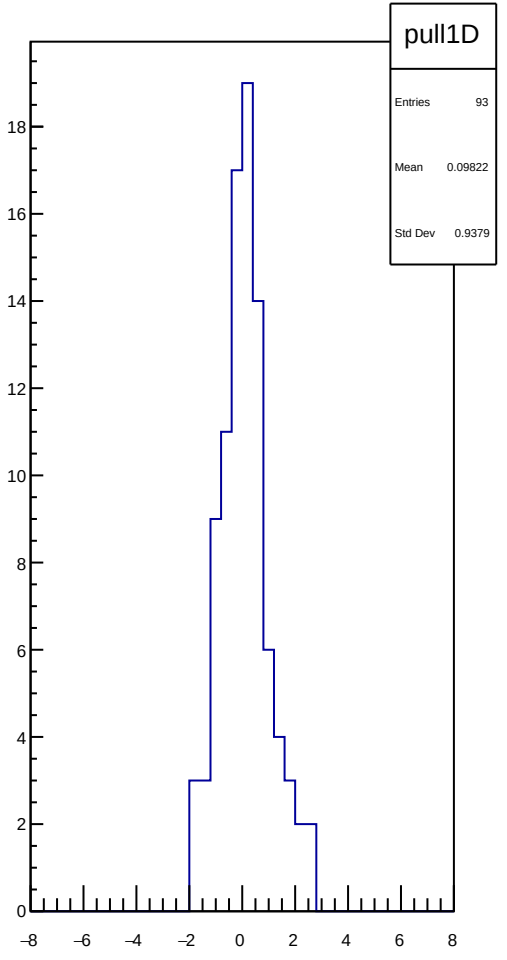

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.393e+04 / 92
p0 5170 ± 3.901
6500
6000
5500
5000
4500

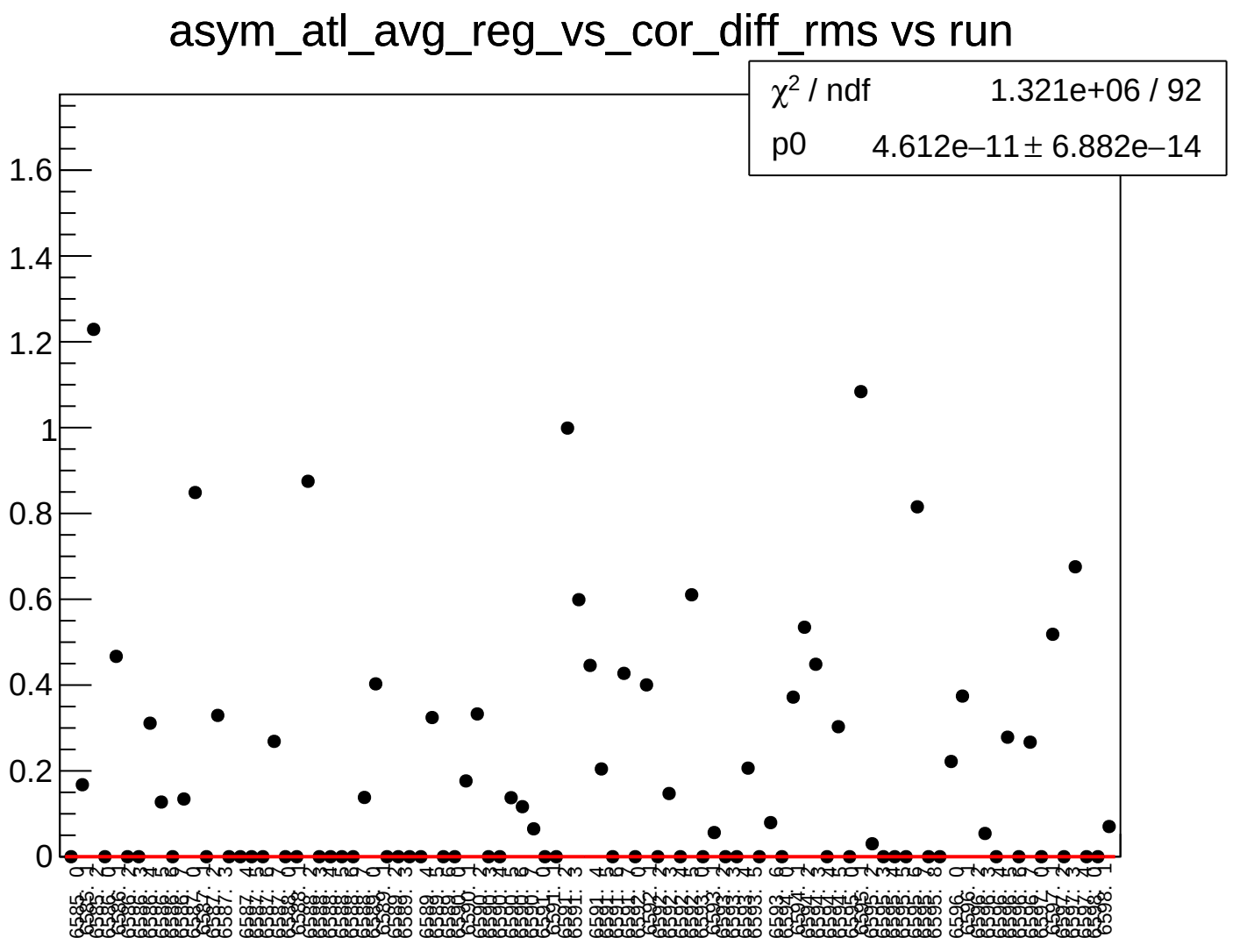

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 103.7 / 92
p0 −3803 ± 5566
200
100
0
−100
−200
pull
Entries 93
Mean 252
Std Dev 0
3
2
1
0
−1
−2
−3

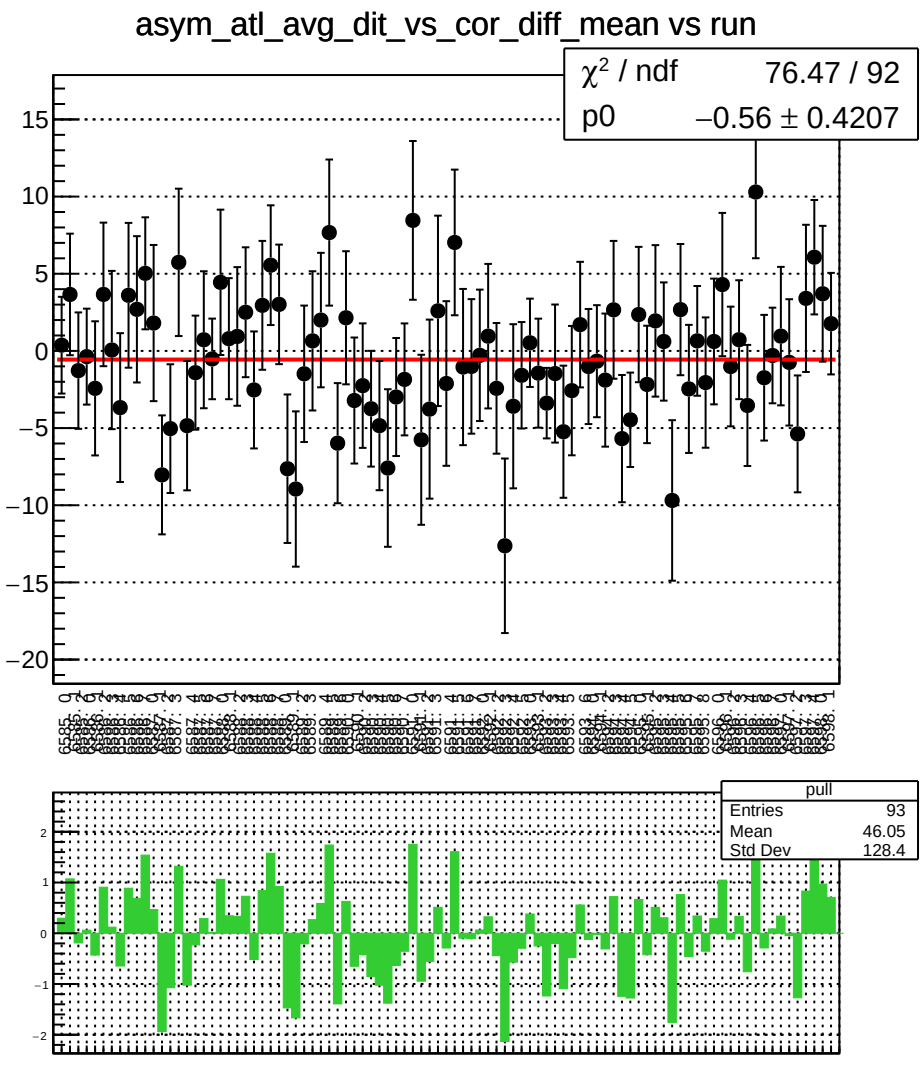

pull1D
Entries 93
Mean 0.004074
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

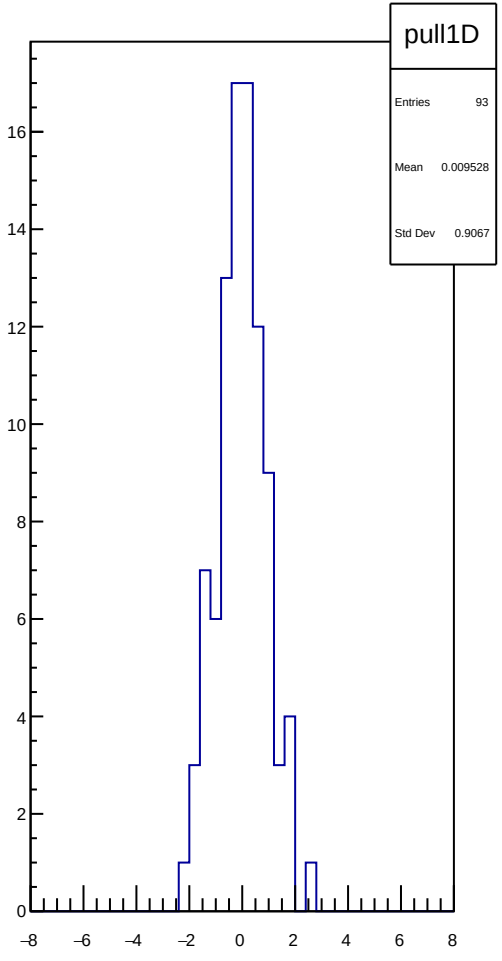

asym_atl_avg_rms vs run
χ² / ndf 1.154e+04 / 92
p0 5220 ± 3.936
6500
6000
5500
5000
4500

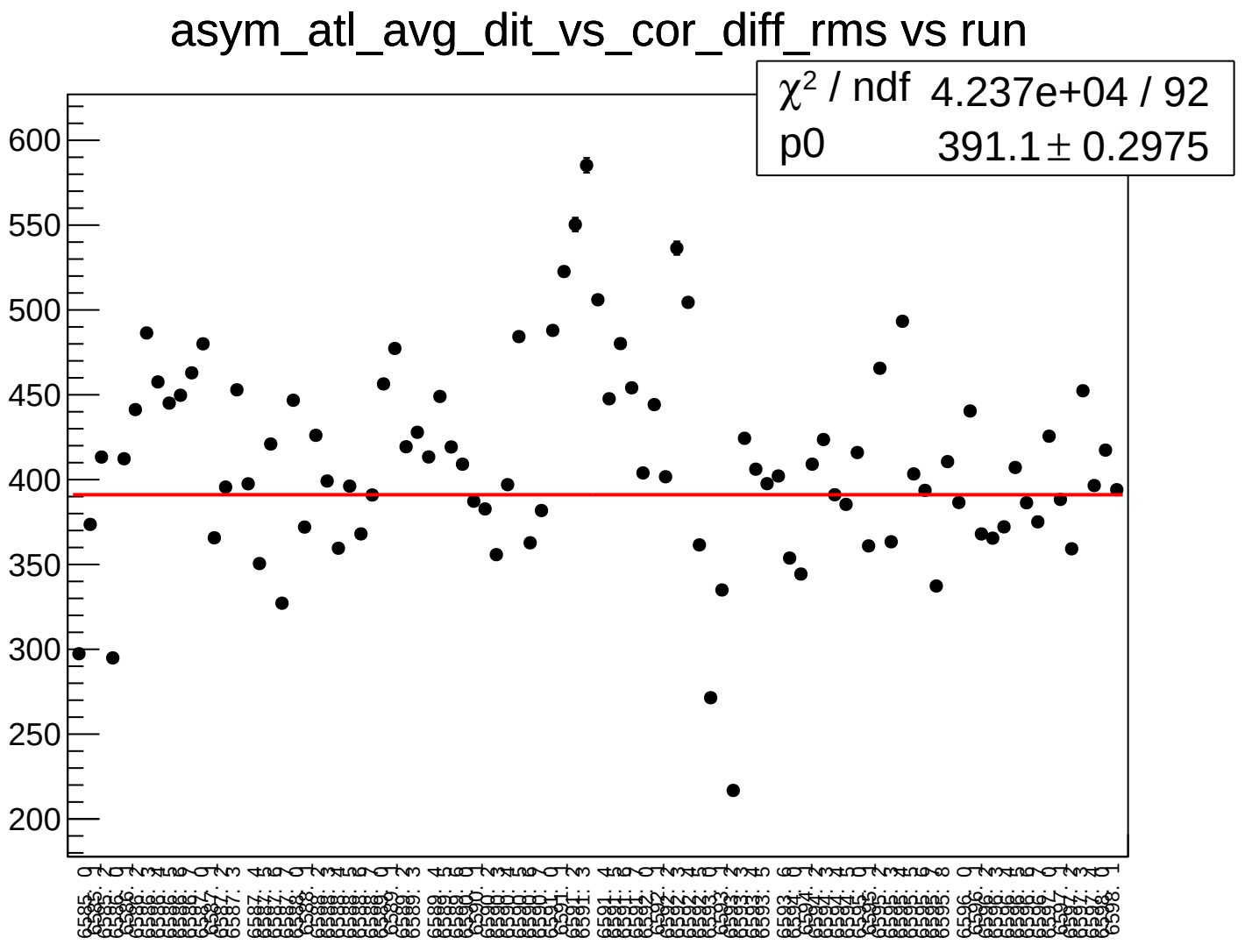

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.7 / 92
p0 9.967e−14 ± 9.732e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 64.06
Std Dev 28.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

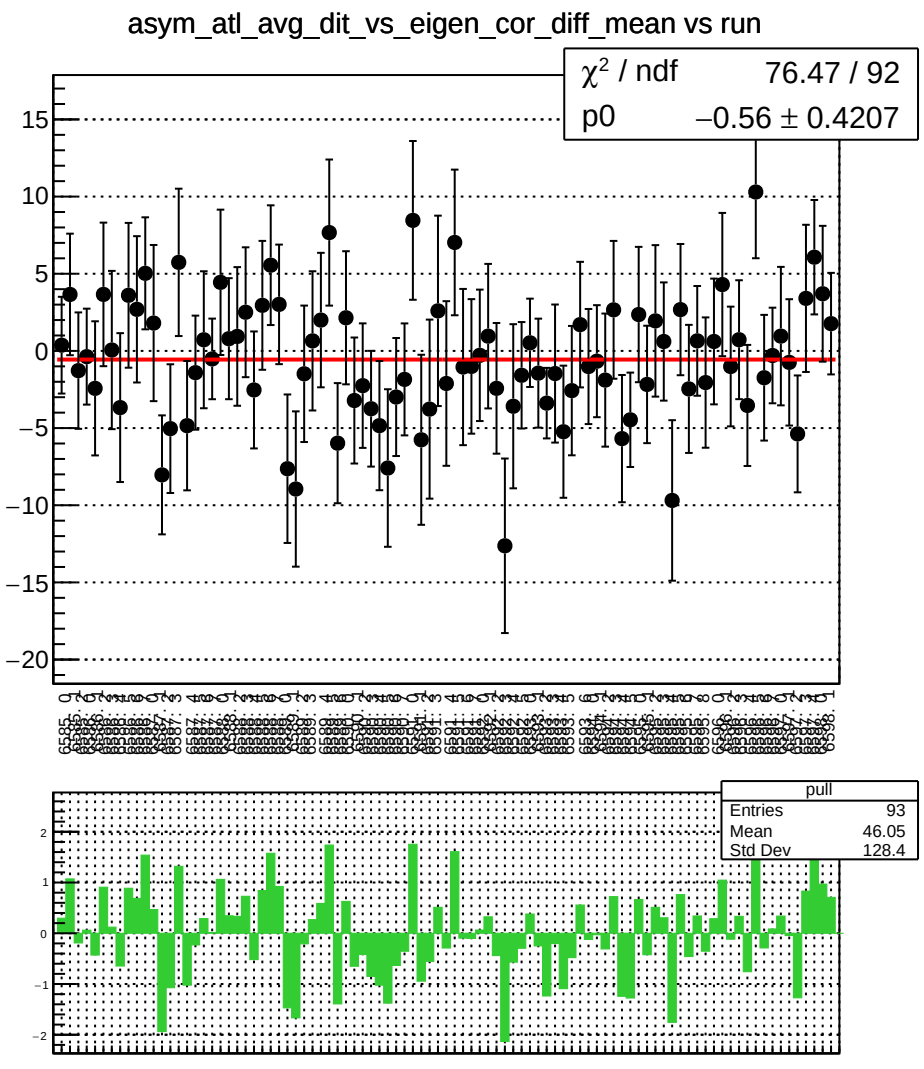

pull1D
Entries 93
Mean 0.09822
Std Dev 0.9379
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

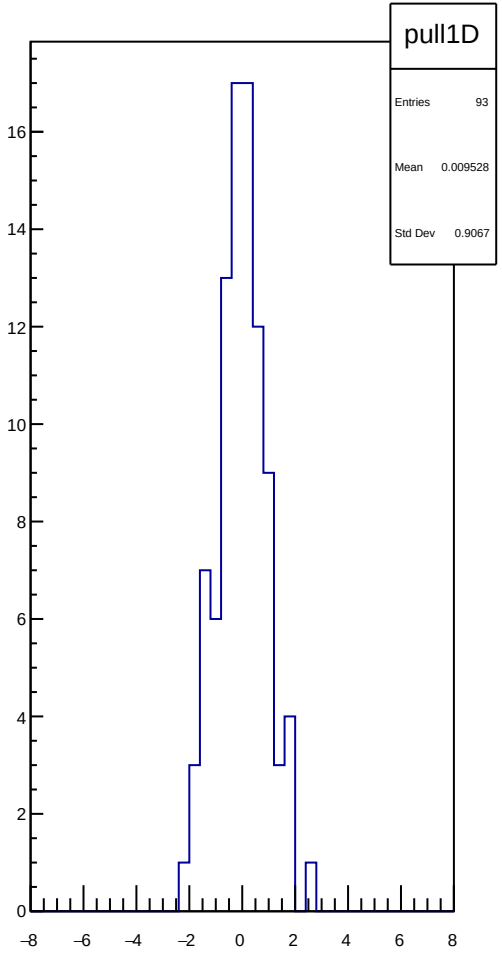

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.321e+06 / 92
p0 4.612e−11 ± 6.882e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

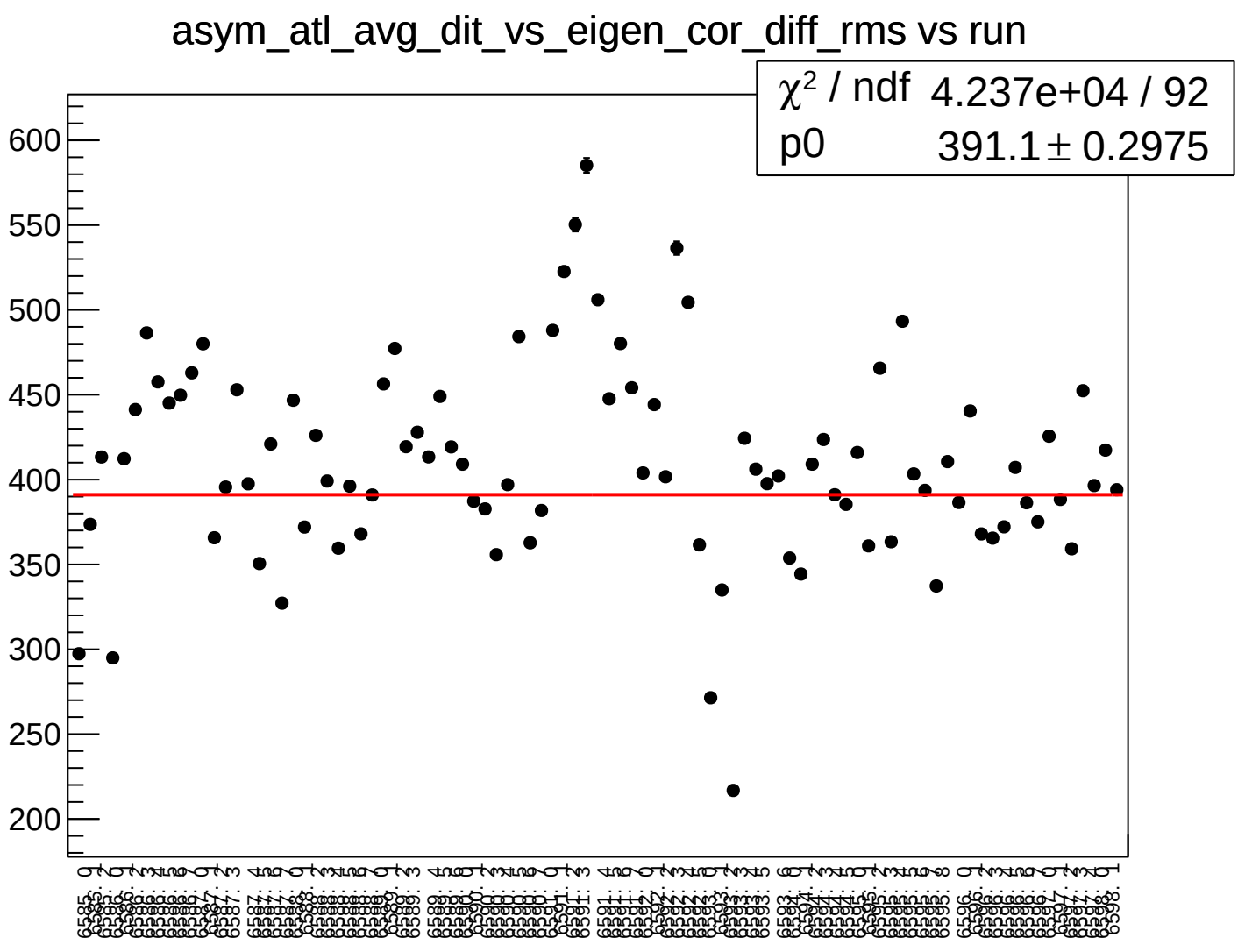

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.47 / 92
p0 −0.56 ± 0.4207
pull
Entries 93
Mean 46.05
Std Dev 128.4

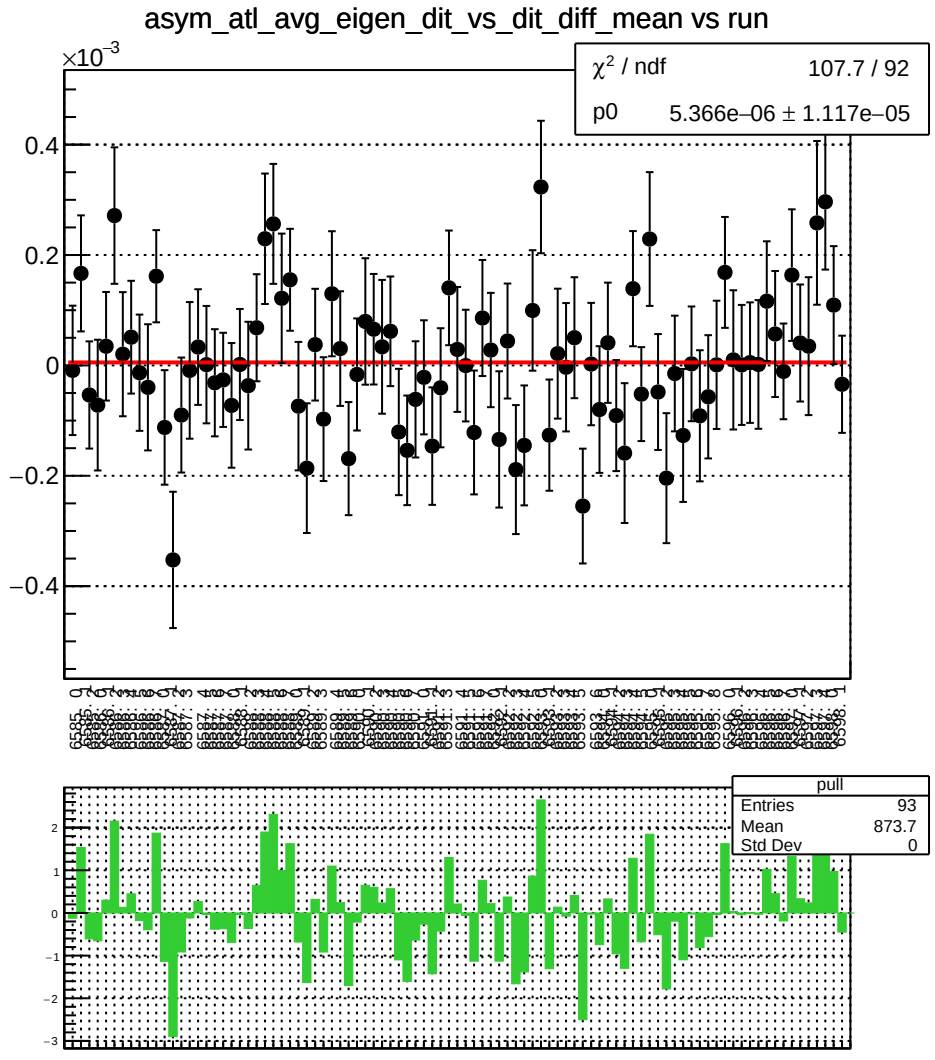

pull1D
Entries 93
Mean 0.009528
Std Dev 0.9067

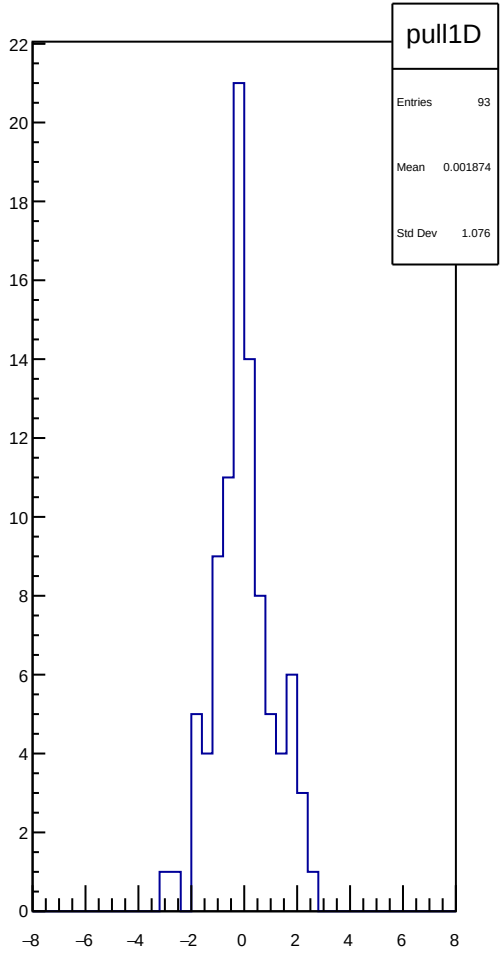

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.237e+04 / 92
p0 391.1 ± 0.2975
600
550
500
450
400
350
300
250
200

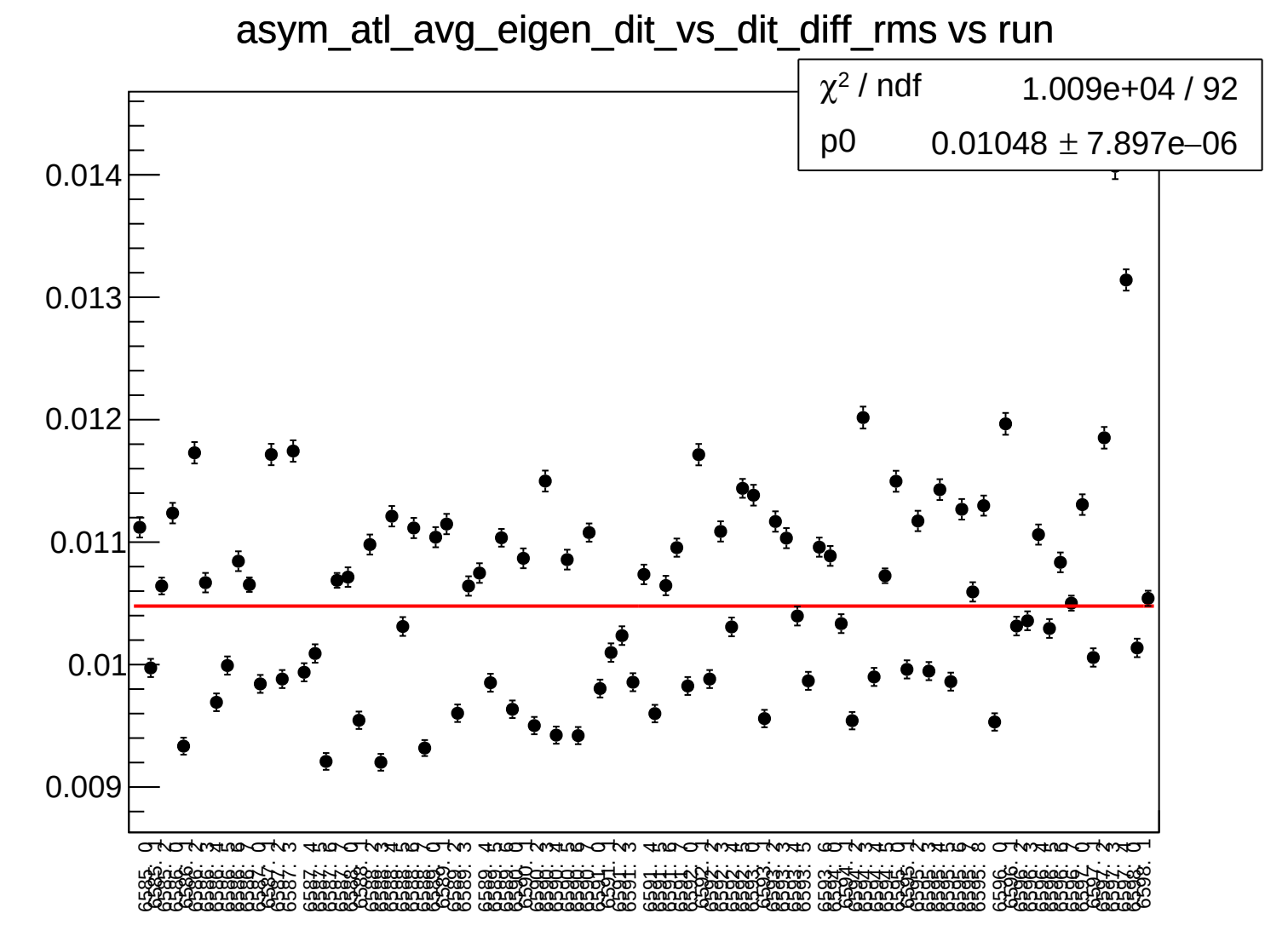

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.47 / 92
p0 −0.56 ± 0.4207
pull
Entries 93
Mean 46.05
Std Dev 128.4

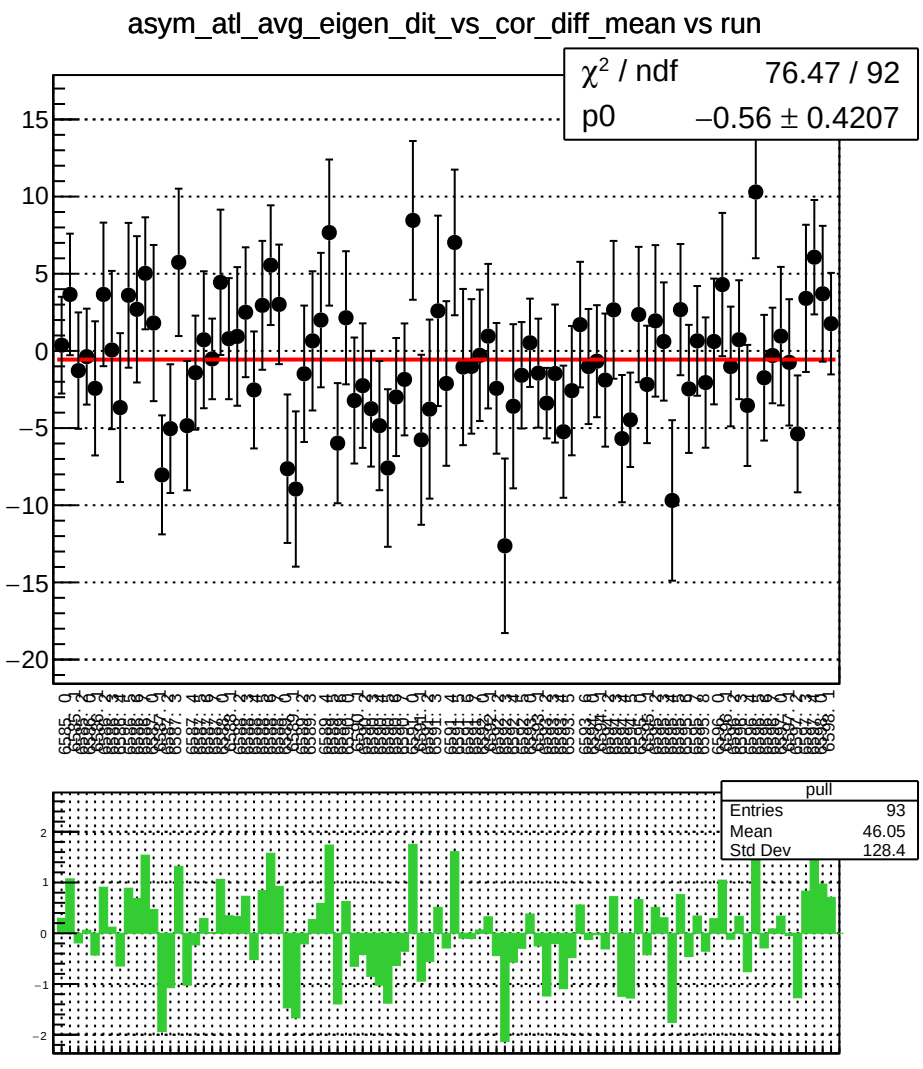

pull1D
Entries 93
Mean 0.009528
Std Dev 0.9067

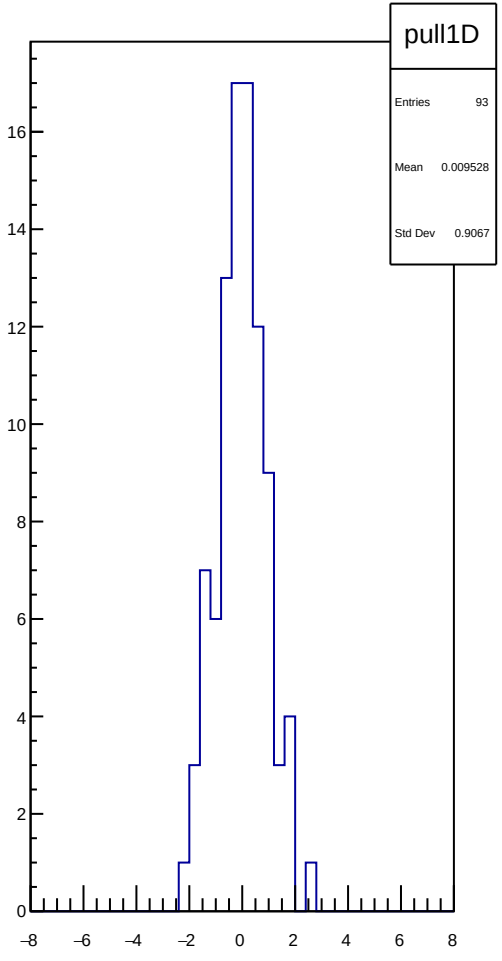

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.237e+04 / 92
p0 391.1 ± 0.2975
600
550
500
450
400
350
300
250
200

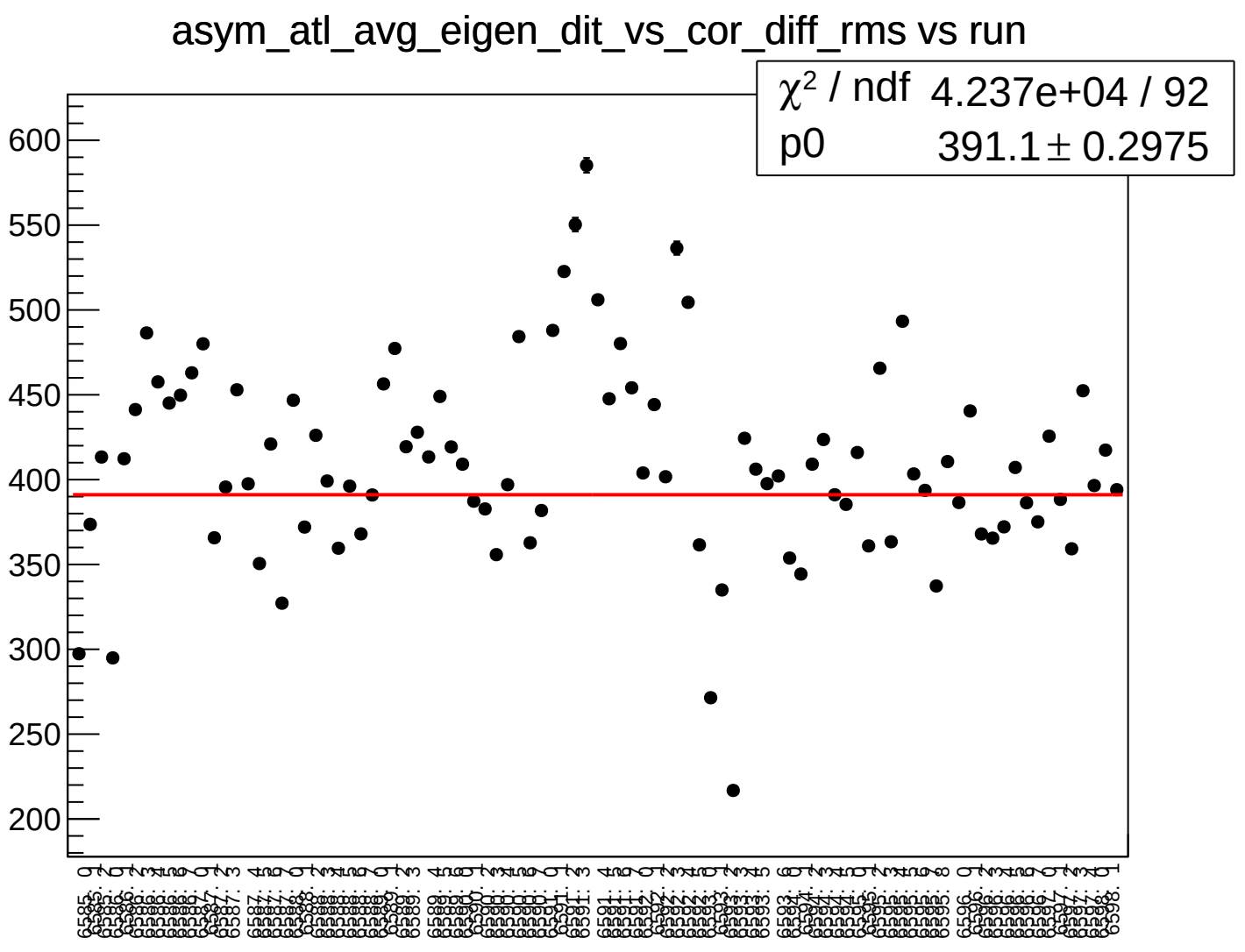

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 107.7 / 92
p0 5.366e−06 ± 1.117e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 873.7
Std Dev 0
2
1
0
−1
−2
−3

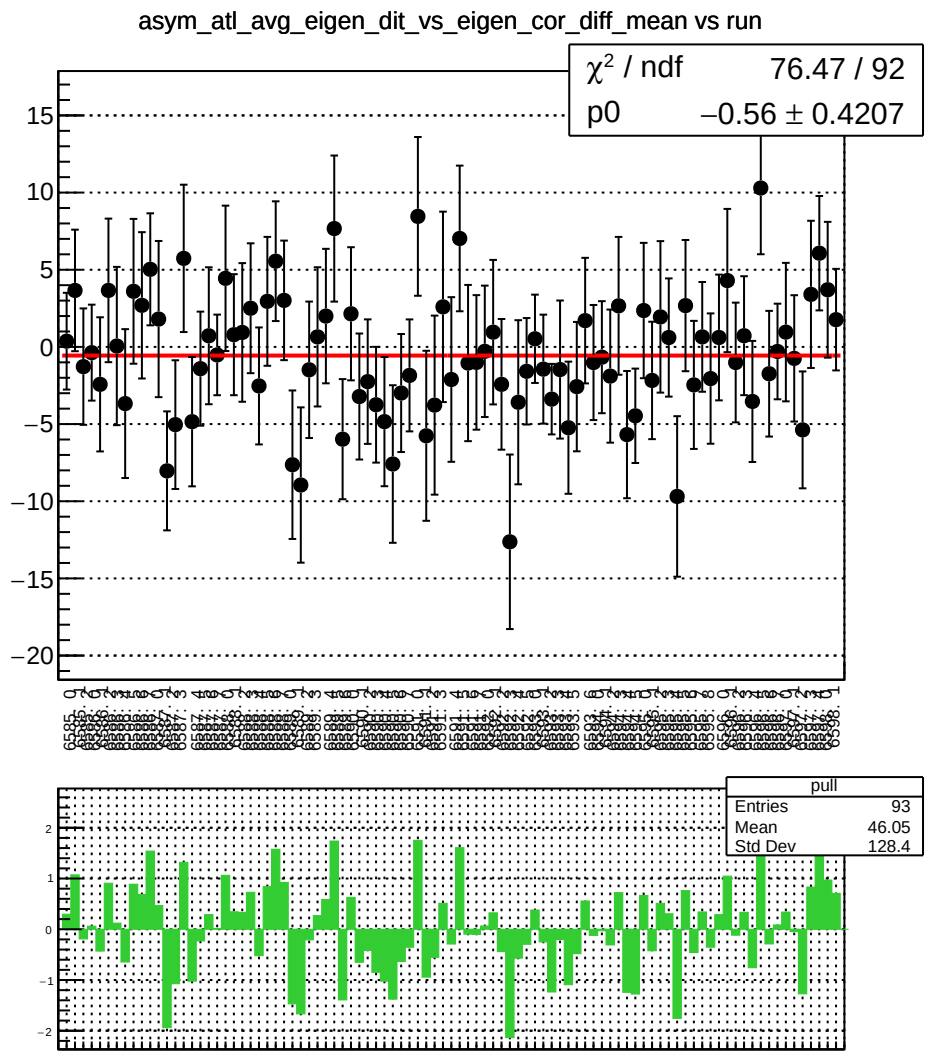

pull1D
Entries 93
Mean 0.001874
Std Dev 1.076
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

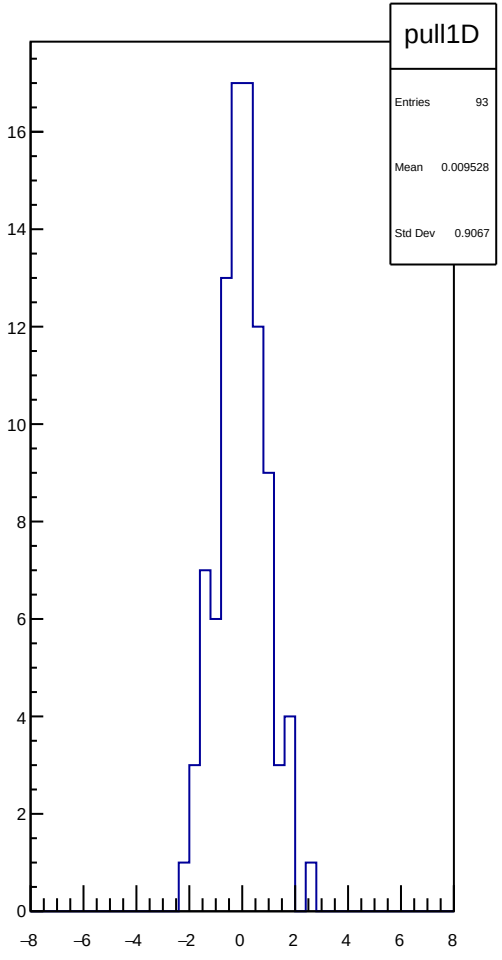

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.009e+04 / 92
p0 0.01048 ± 7.897e–06
0.014
0.013
0.012
0.011
0.01
0.009

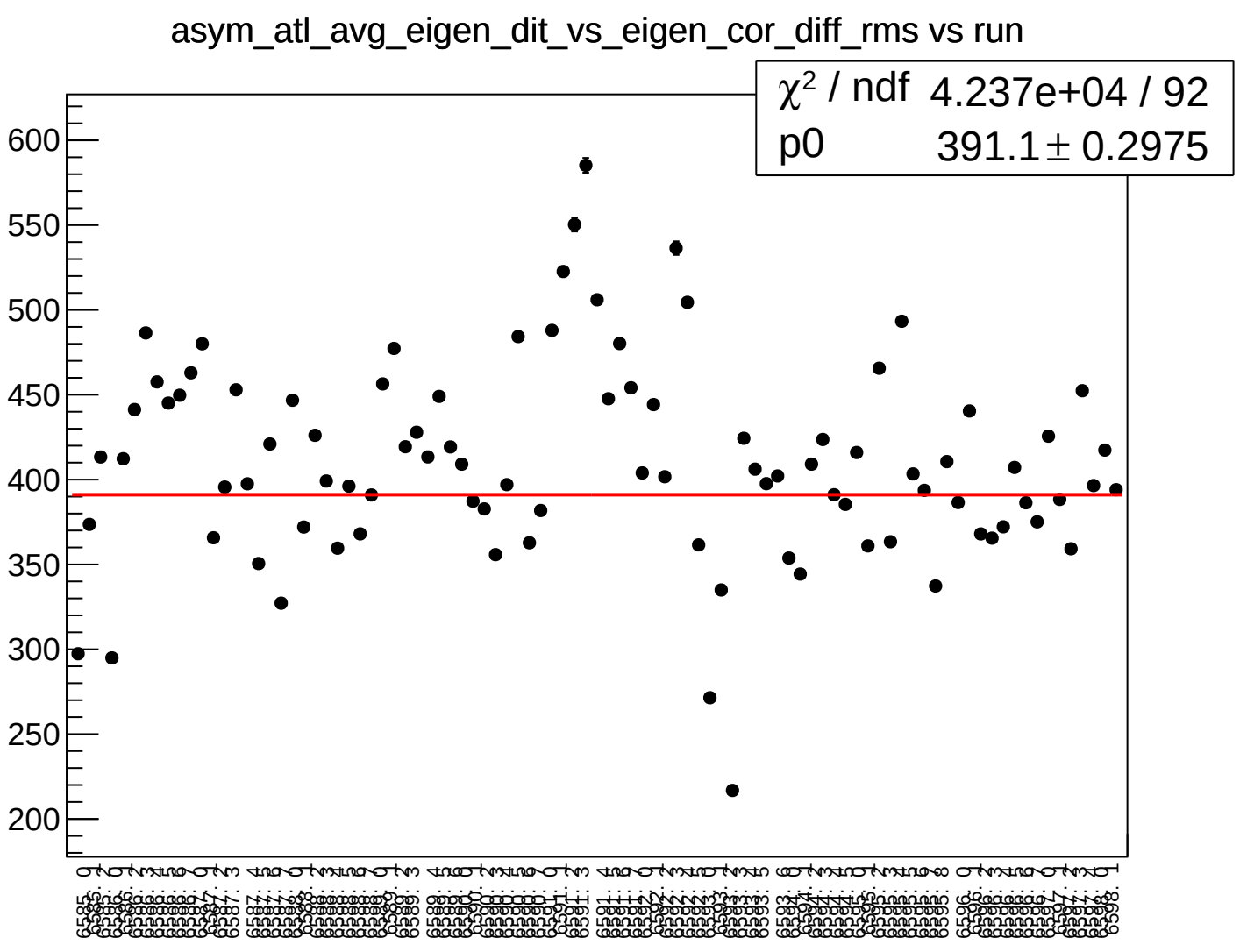

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.47 / 92
p0 −0.56 ± 0.4207
pull
Entries 93
Mean 46.05
Std Dev 128.4

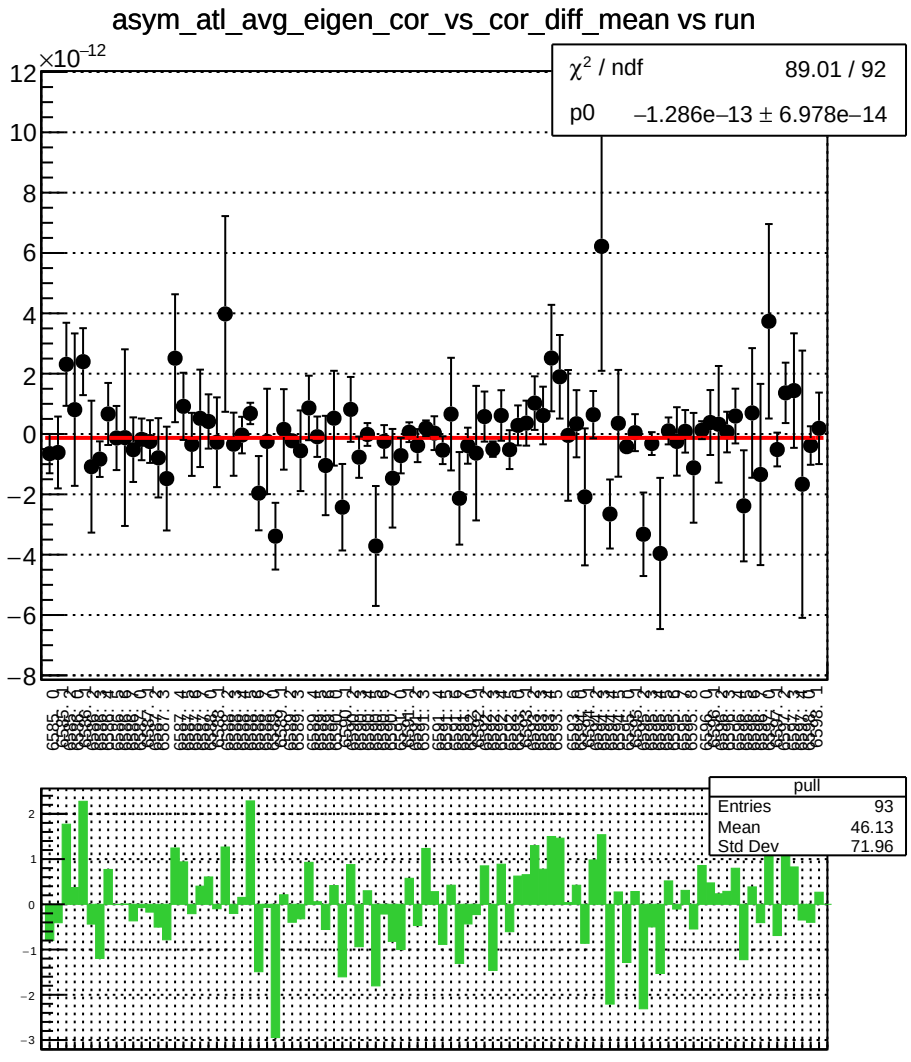

pull1D
Entries 93
Mean 0.009528
Std Dev 0.9067

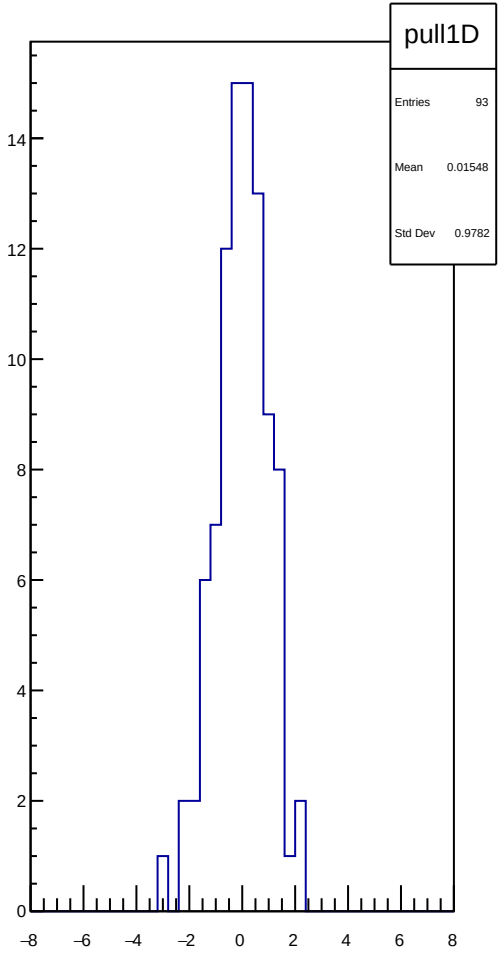

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.237e+04 / 92
p0 391.1 ± 0.2975
600
550
500
450
400
350
300
250
200

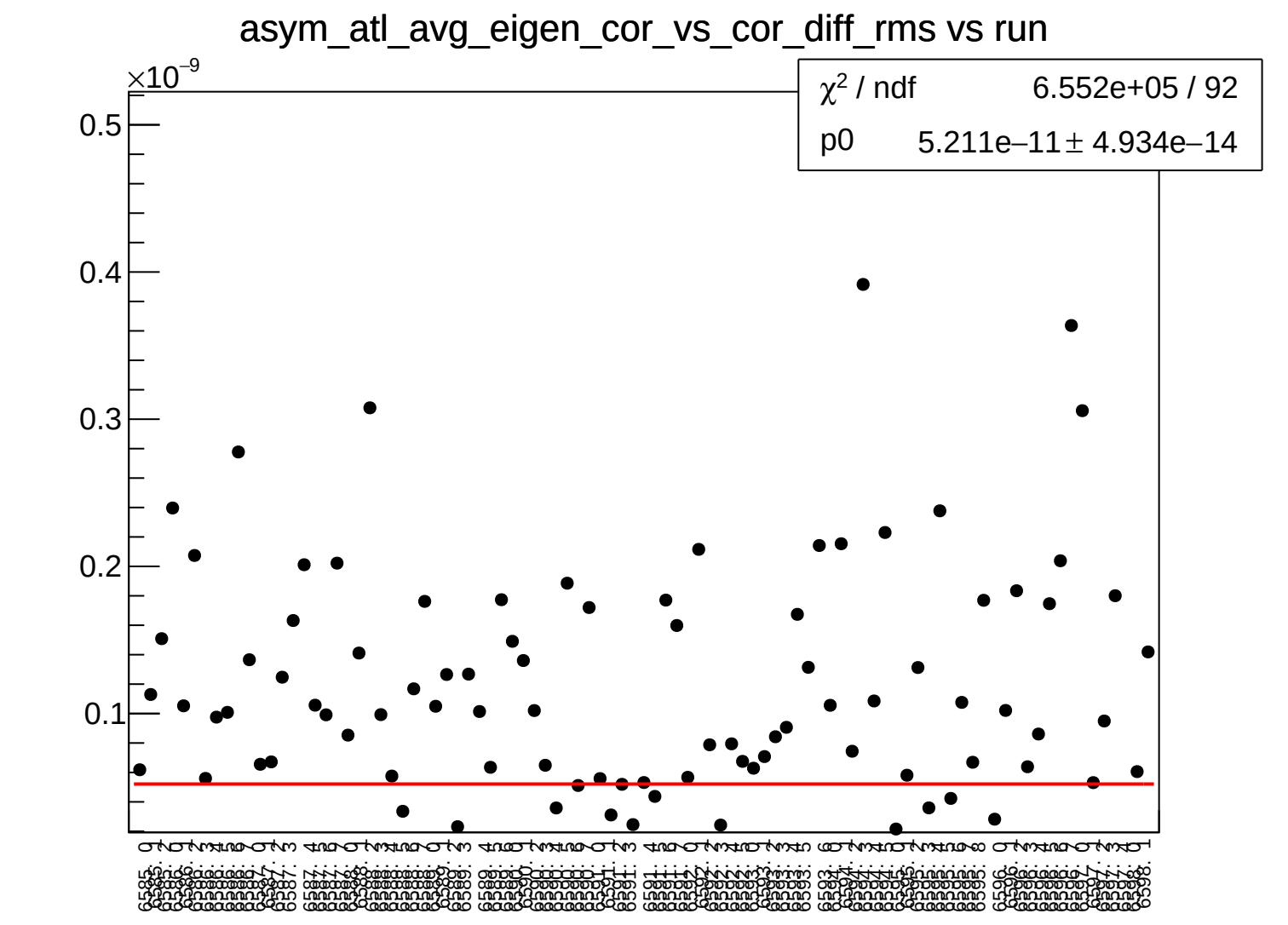

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.47 / 92
p0 −0.56 ± 0.4207
pull
Entries 93
Mean 46.05
Std Dev 128.4

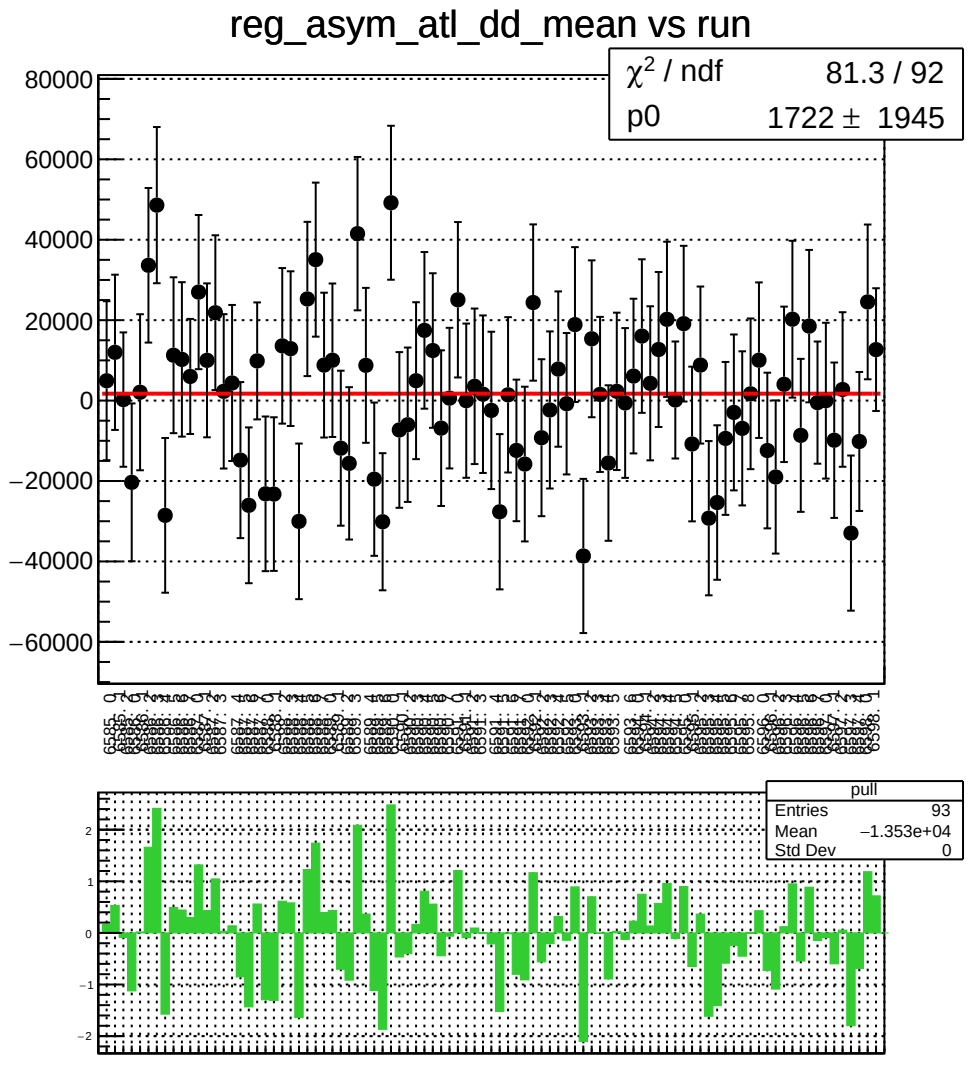

pull1D
Entries 93
Mean 0.009528
Std Dev 0.9067

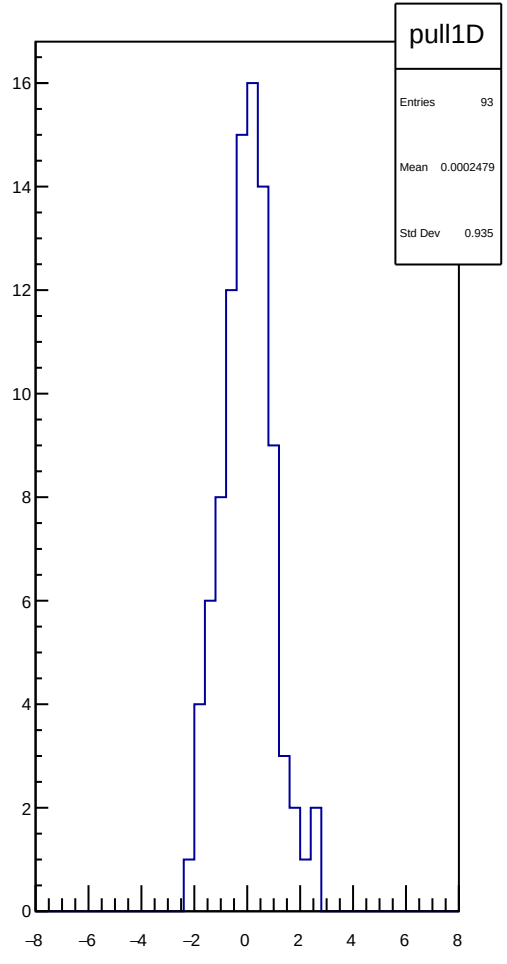

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.237e+04 / 92
p0 391.1 ± 0.2975
600
550
500
450
400
350
300
250
200

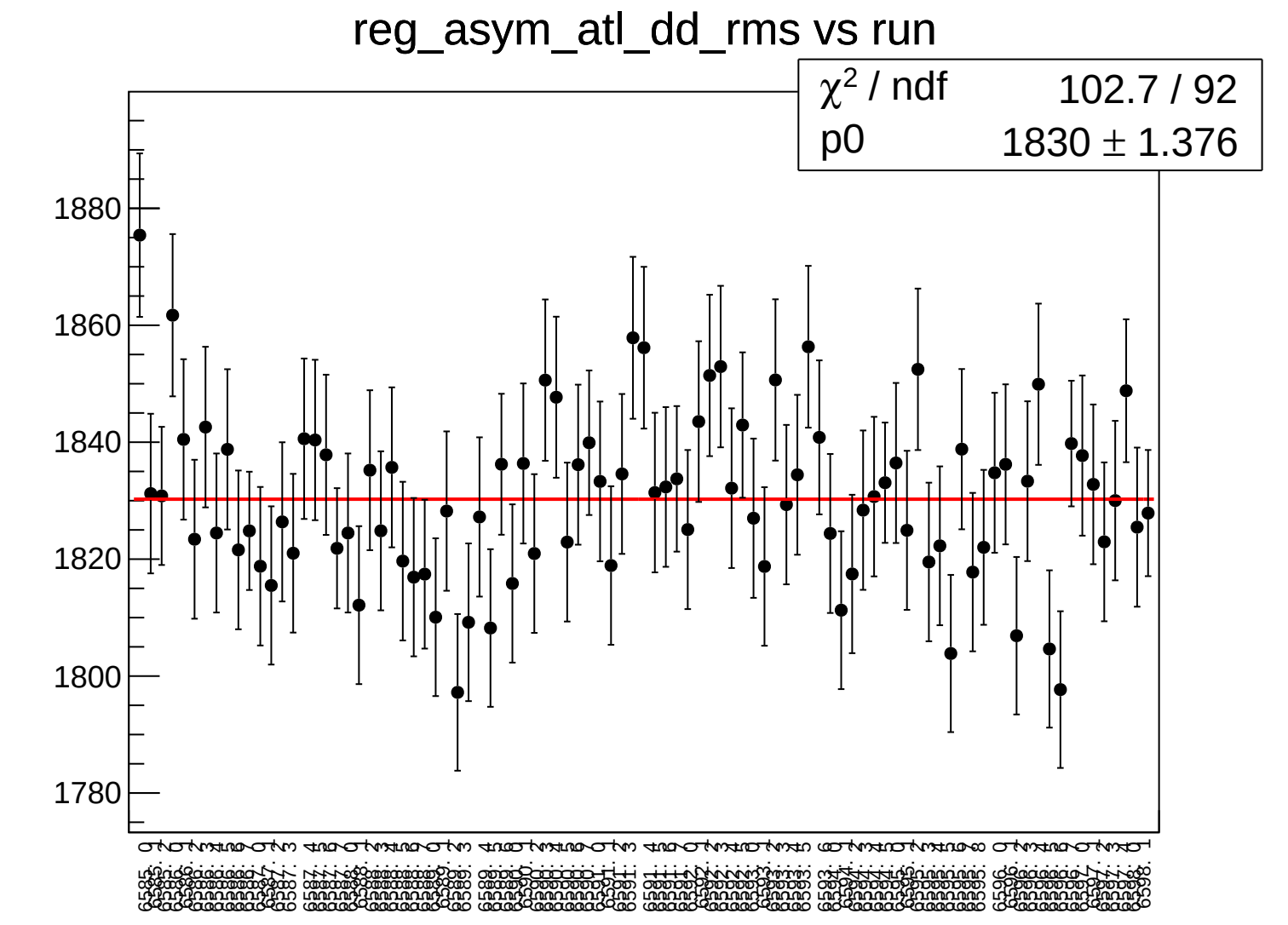

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.01 / 92
p0 −1.286e−13 ± 6.978e−14
pull
Entries 93
Mean 46.13
Std Dev 71.96

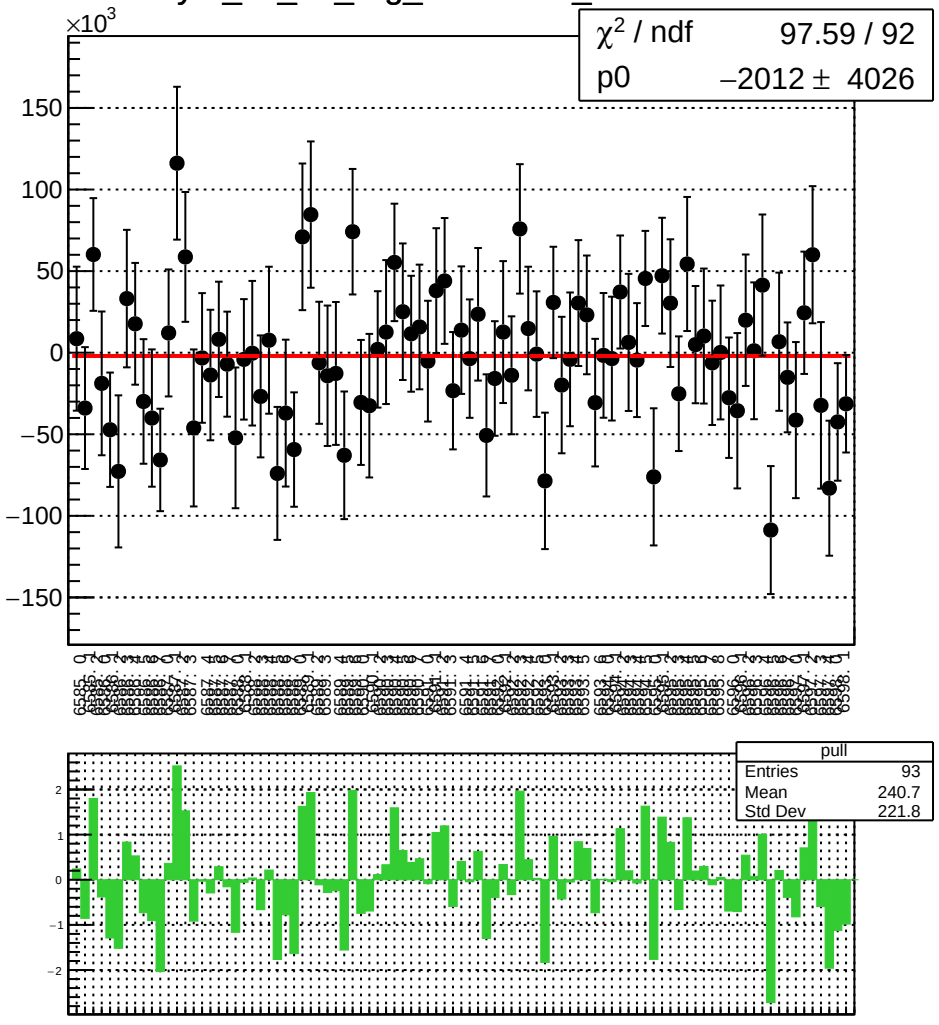

pull1D
Entries 93
Mean 0.01548
Std Dev 0.9782

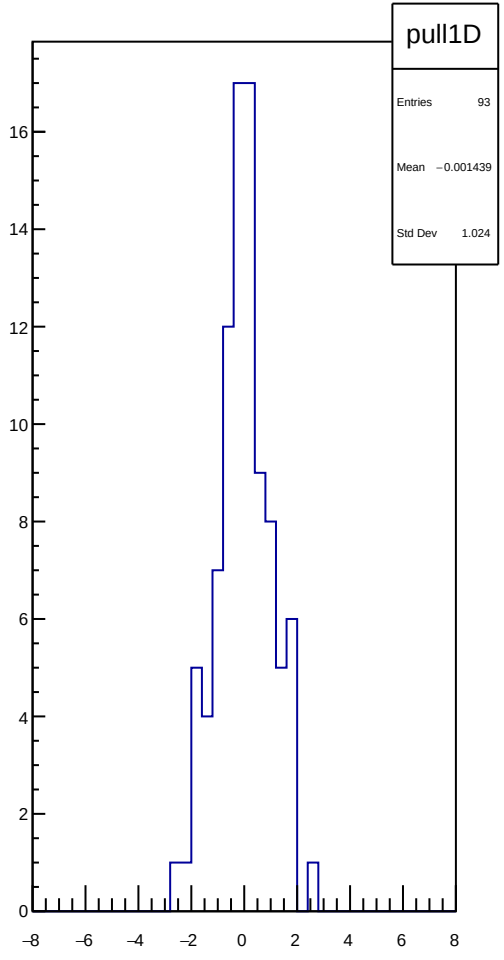

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.552e+05 / 92
p0 5.211e−11 ± 4.934e−14
0.5
0.4
0.3
0.2
0.1

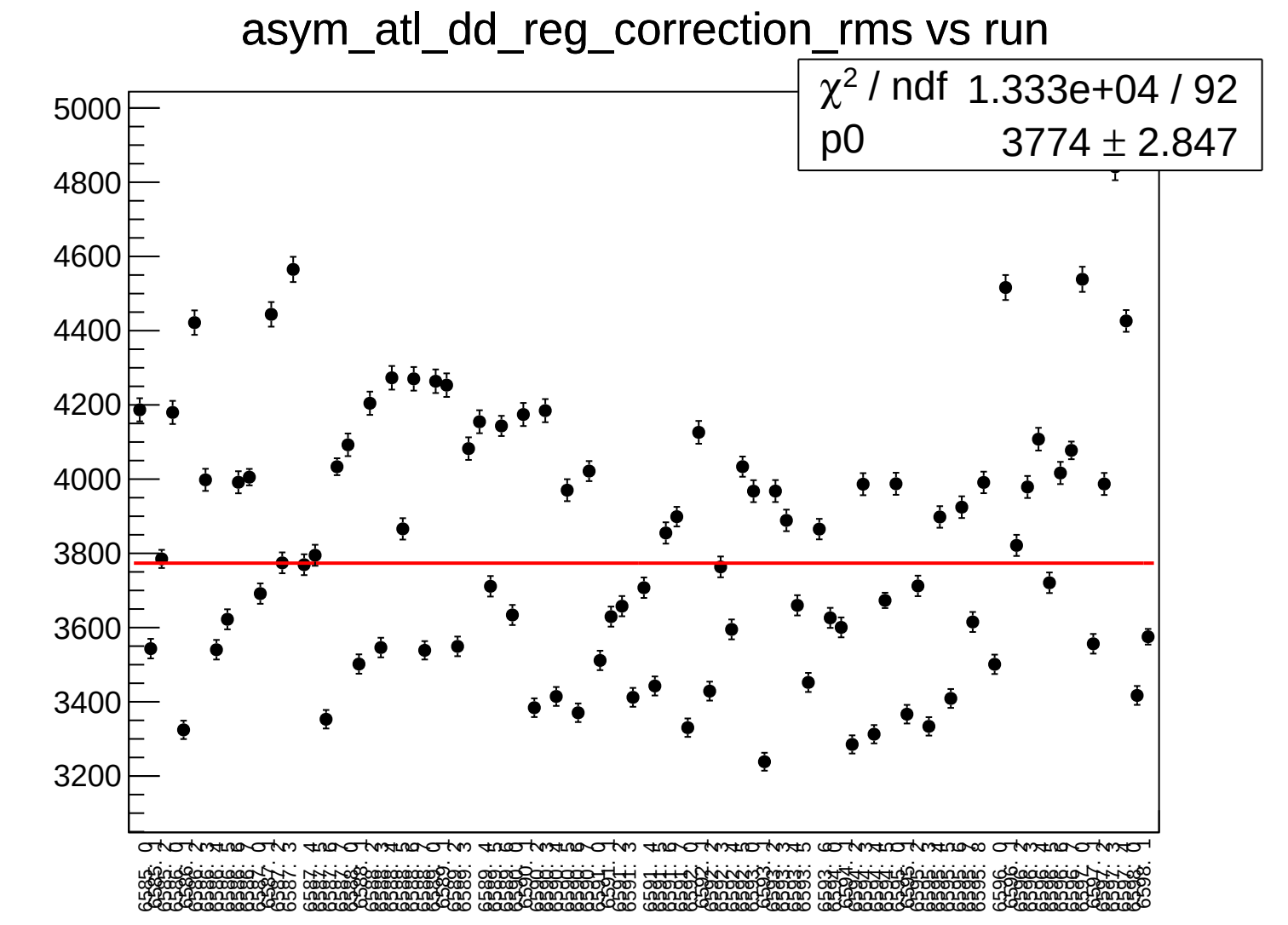

reg_asym_atl_dd_mean vs run
χ² / ndf 81.3 / 92
p0 1722 ± 1945
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −1.353e+04
Std Dev 0
2
1
0
−1
−2

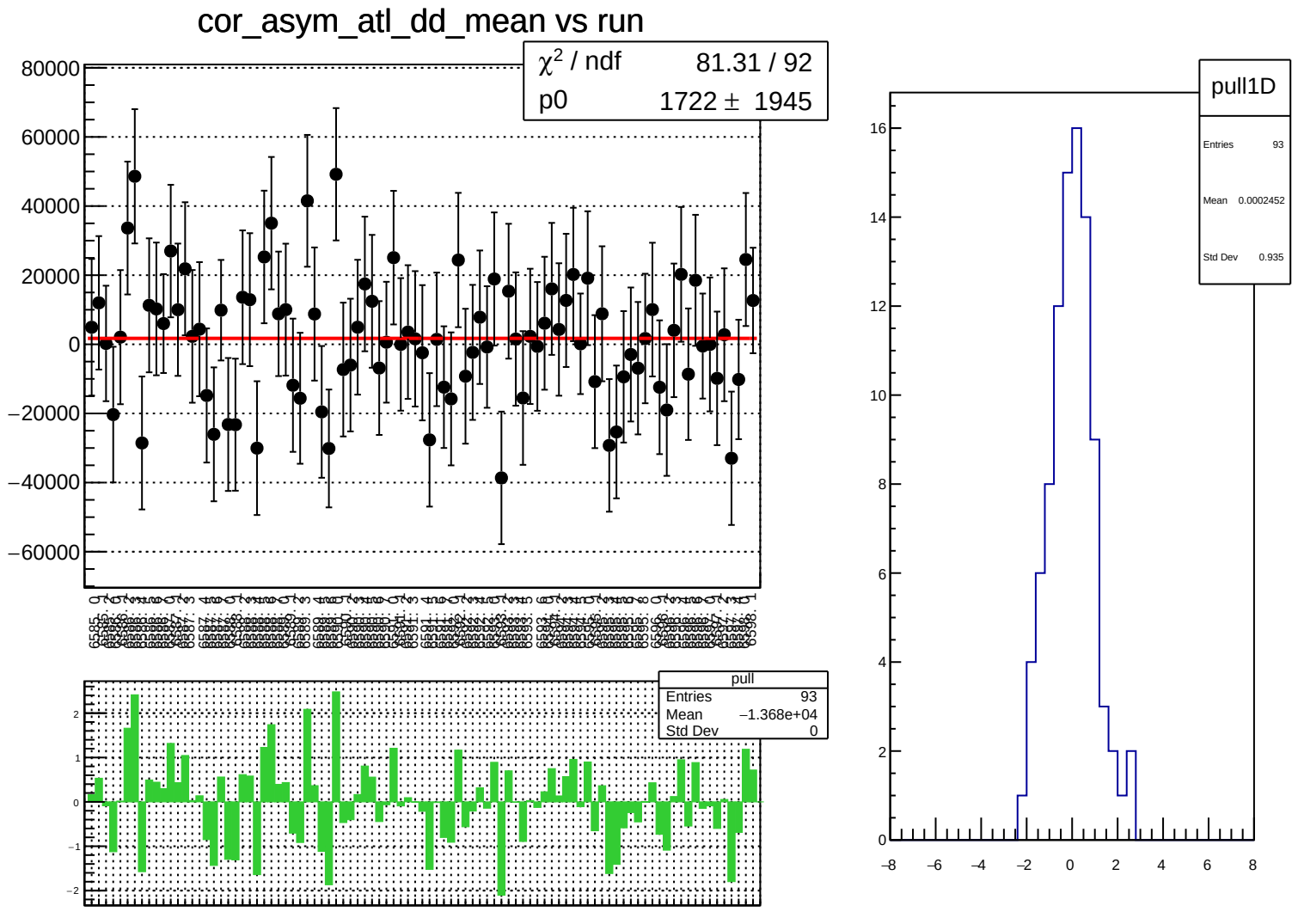

pull1D
Entries 93
Mean 0.0002479
Std Dev 0.935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

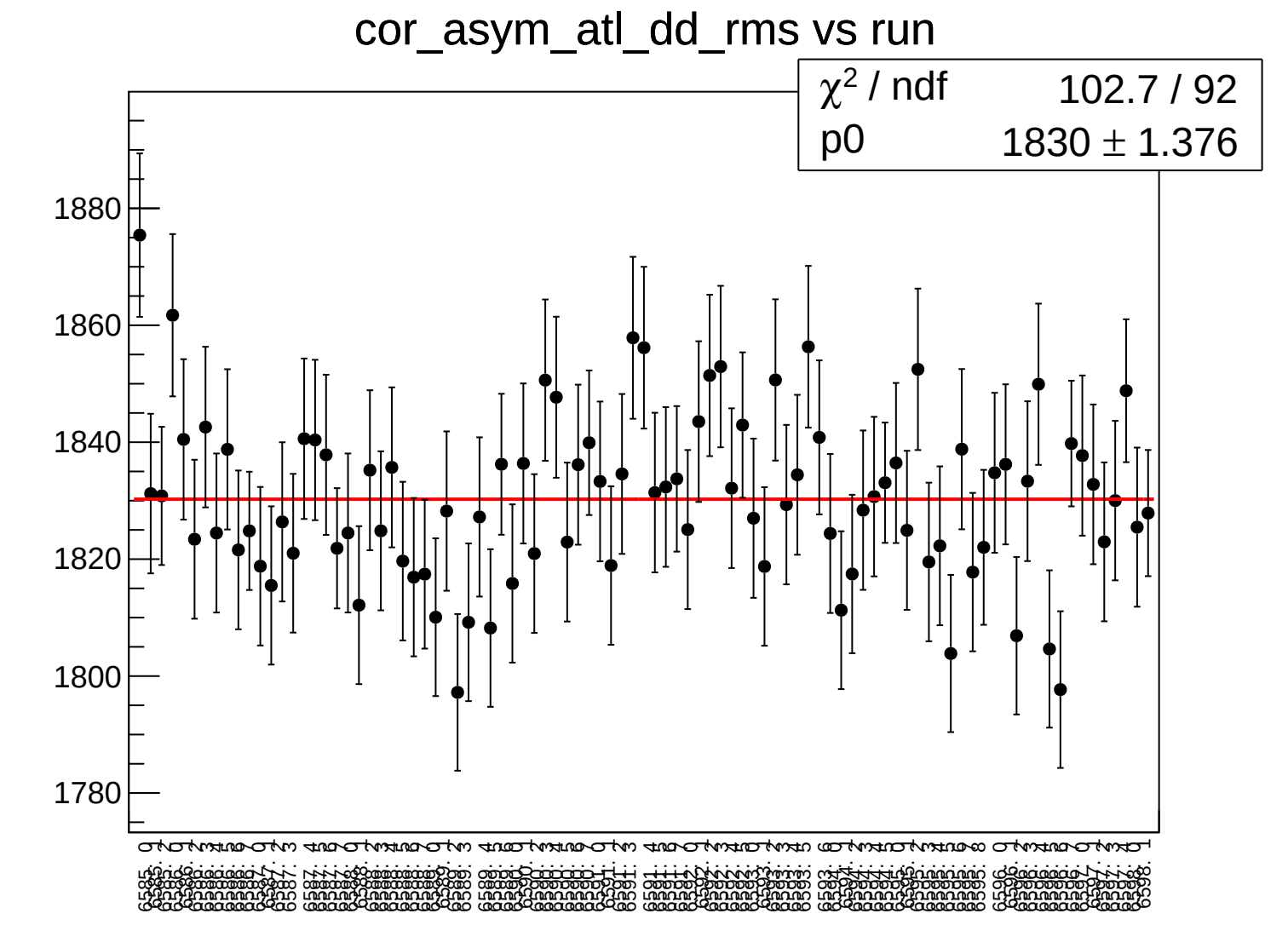

reg_asym_atl_dd_rms vs run
χ^2 / ndf 102.7 / 92
p0 1830 ± 1.376
1880
1860
1840
1820
1800
1780

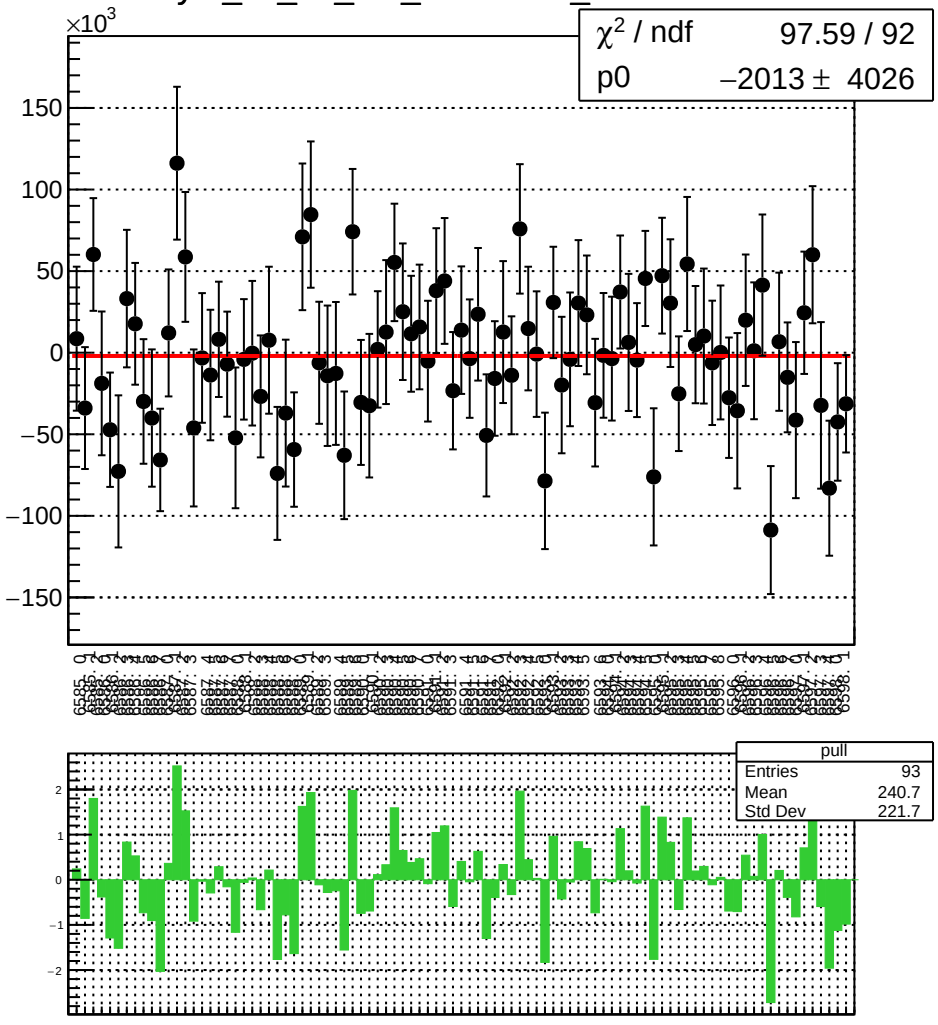

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.59 / 92
p0 −2012 ± 4026
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 240.7
Std Dev 221.8
2
1
0
−1
−2

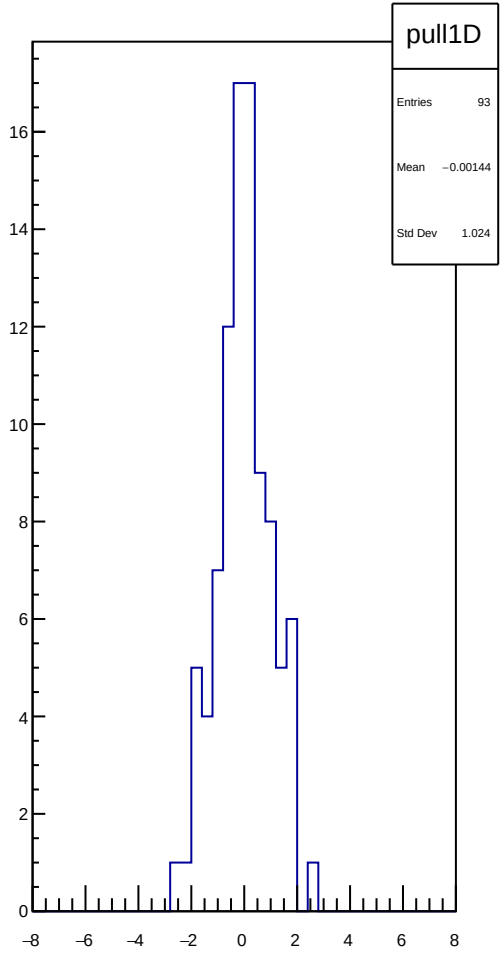

pull1D
Entries 93
Mean −0.001439
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

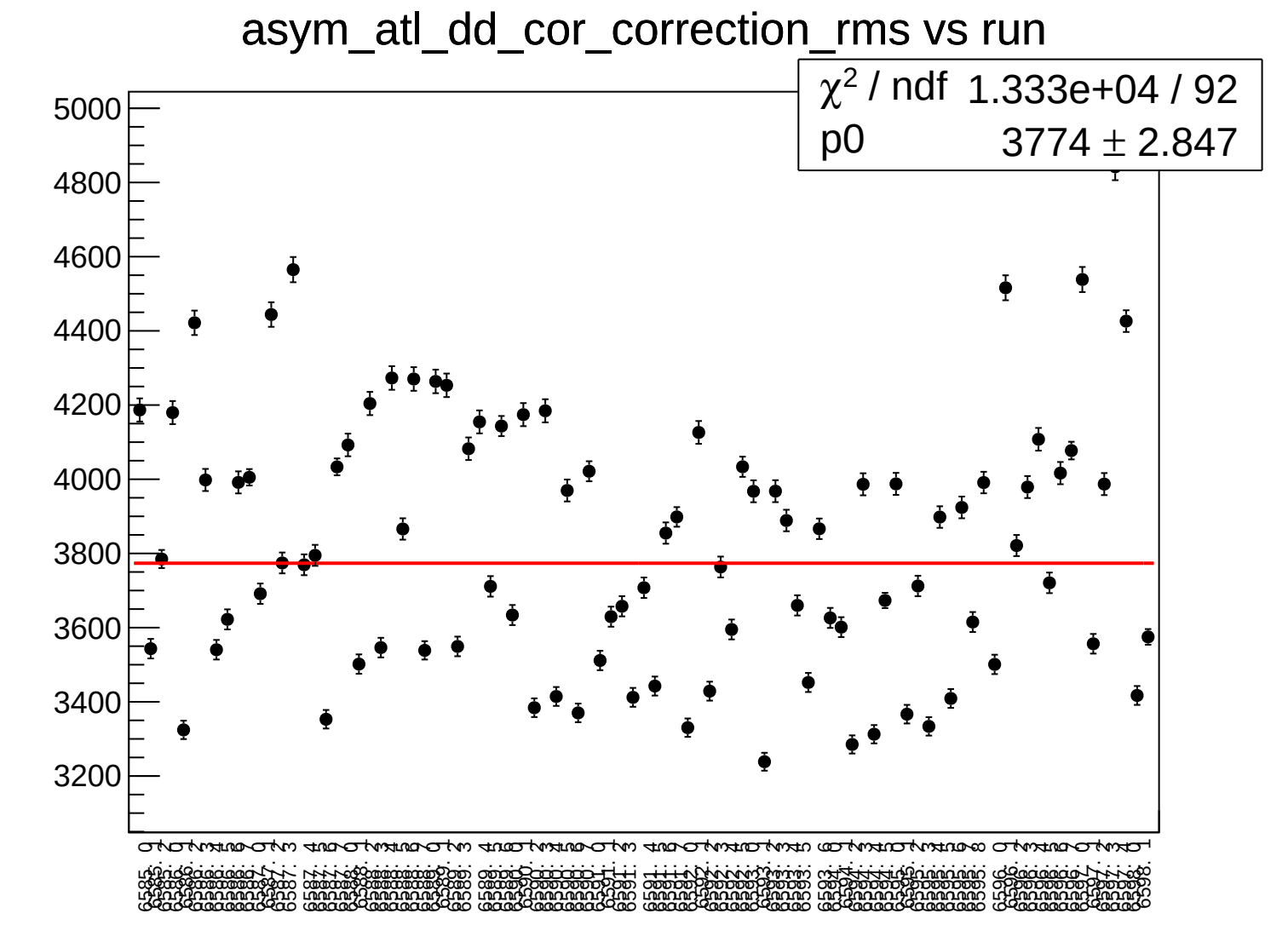

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.333e+04 / 92
p0 3774 ± 2.847
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

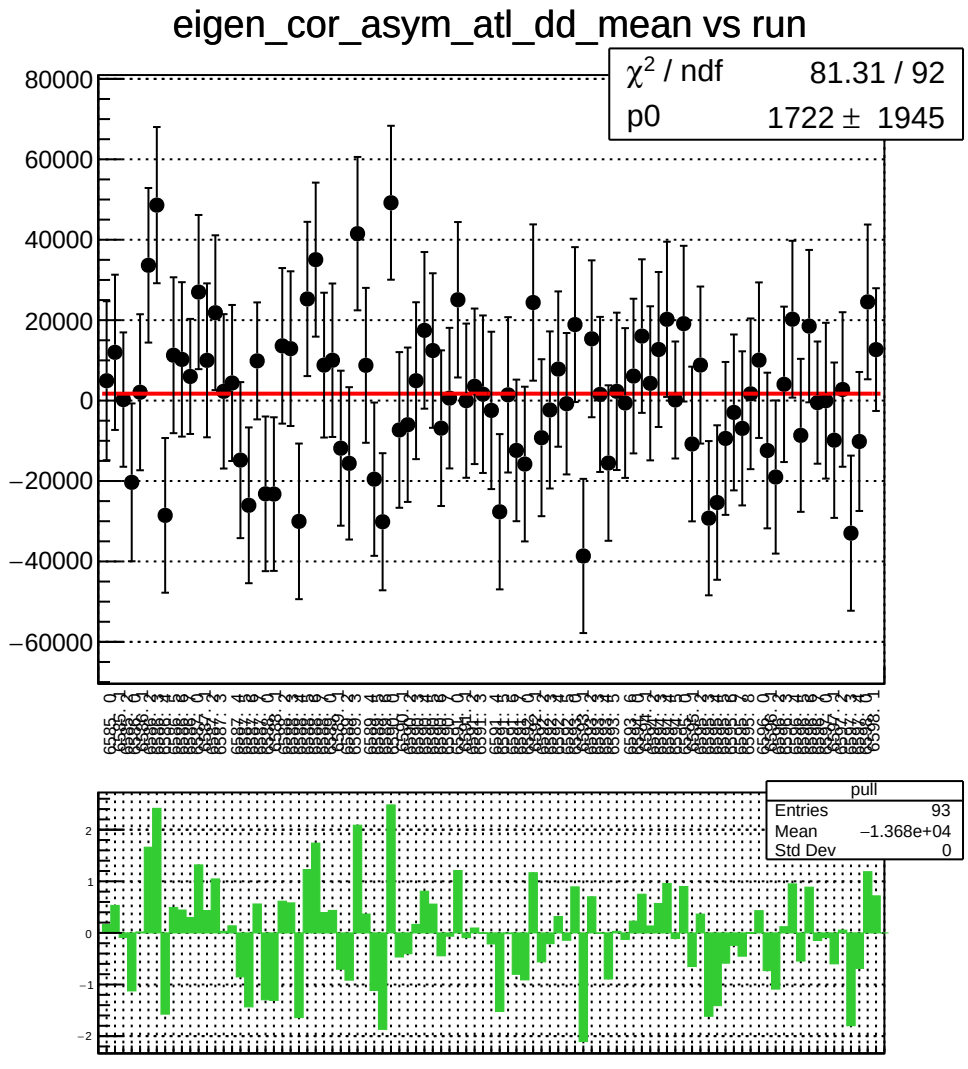

cor_asym_atl_dd_mean vs run
χ² / ndf 81.31 / 92
p0 1722 ± 1945
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −1.368e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0002452
Std Dev 0.935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

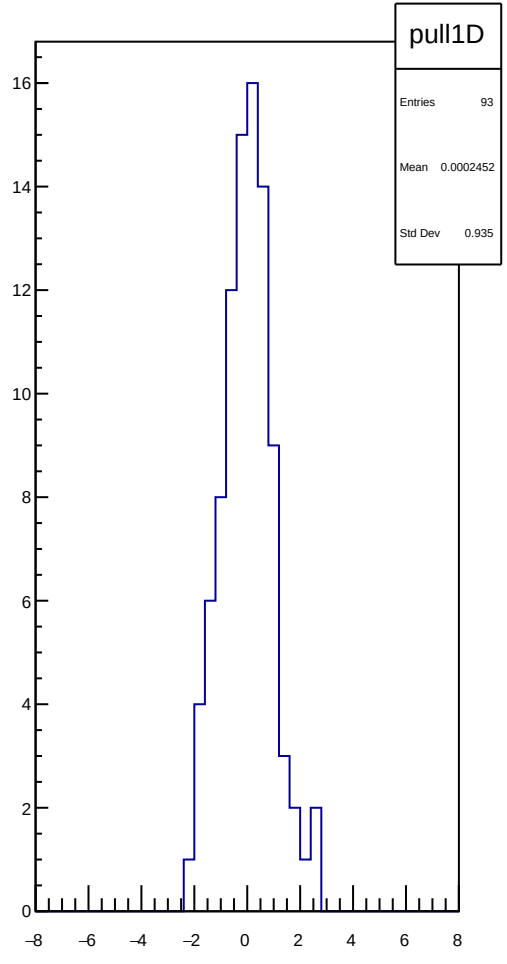

cor_asym_atl_dd_rms vs run
χ^2 / ndf 102.7 / 92
p0 1830 ± 1.376
1880
1860
1840
1820
1800
1780

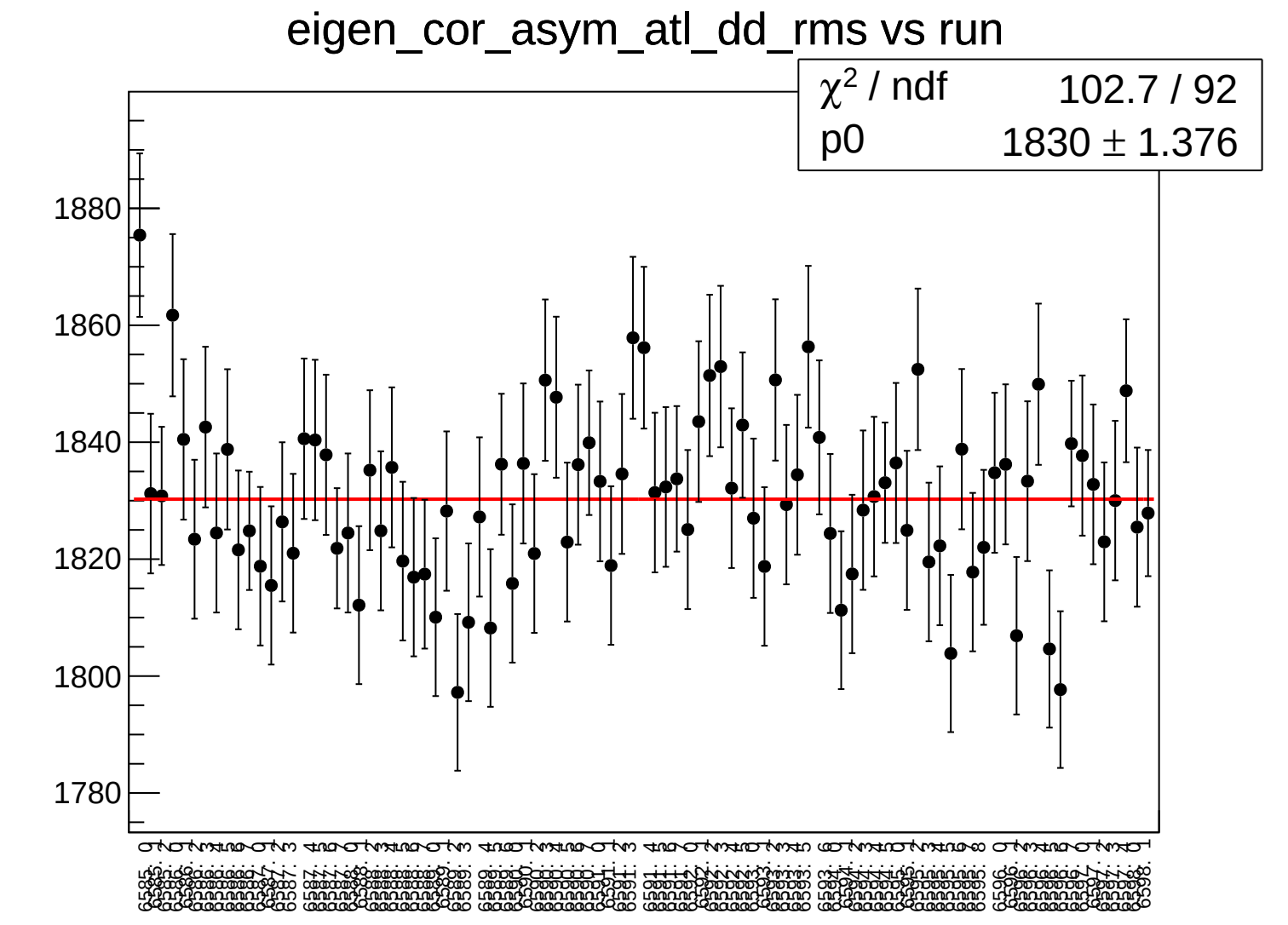

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.59 / 92
p0 −2013 ± 4026
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 240.7
Std Dev 221.7
2
1
0
−1
−2

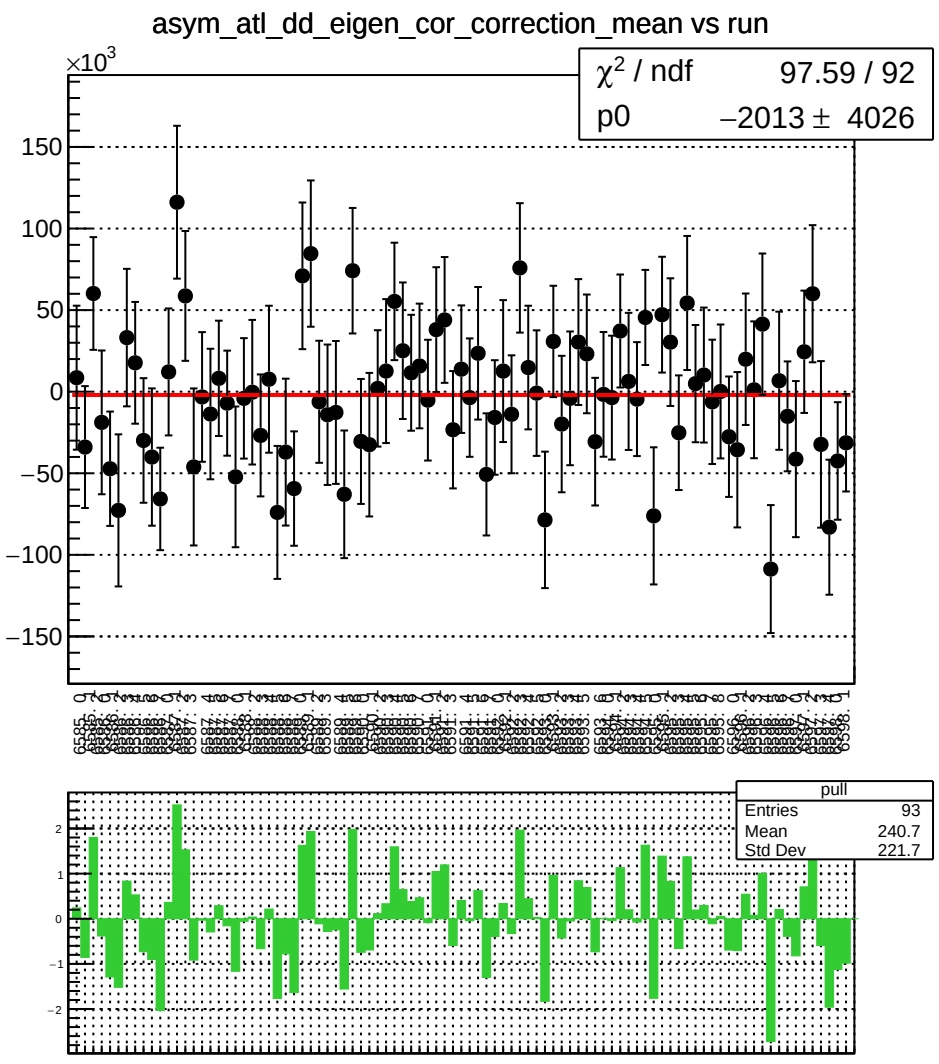

pull1D
Entries 93
Mean −0.00144
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

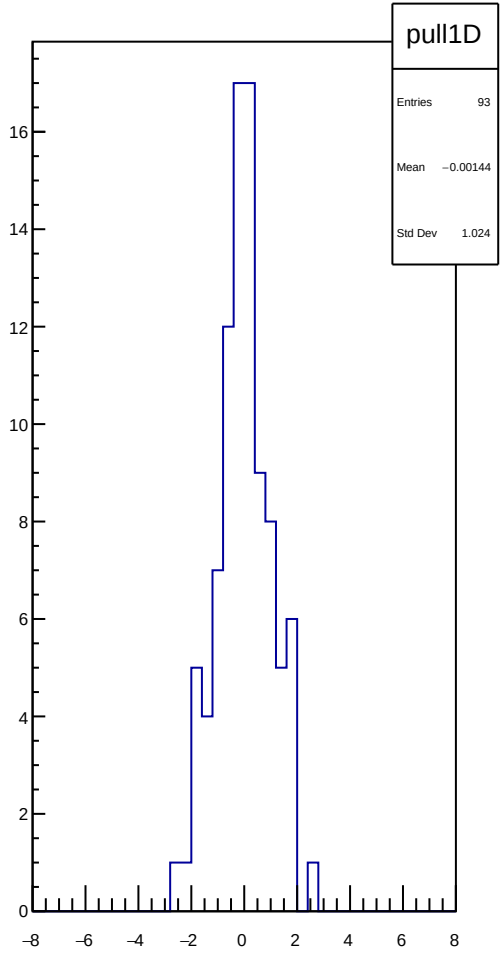

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.333e+04 / 92
p0 3774 ± 2.847
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

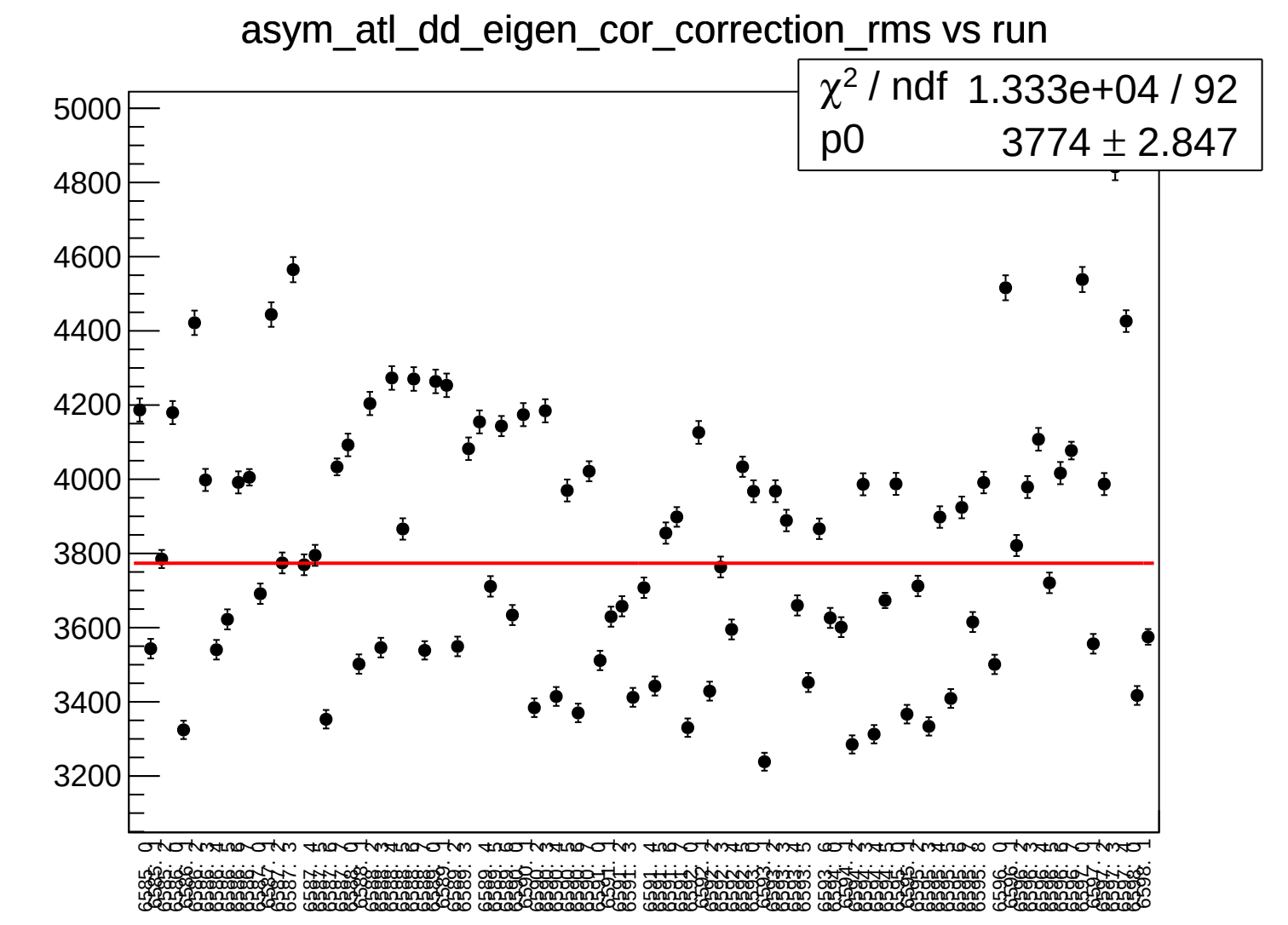

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 81.31 / 92
p0 1722 ± 1945
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −1.368e+04
Std Dev 0
2
1
0
−1
−2

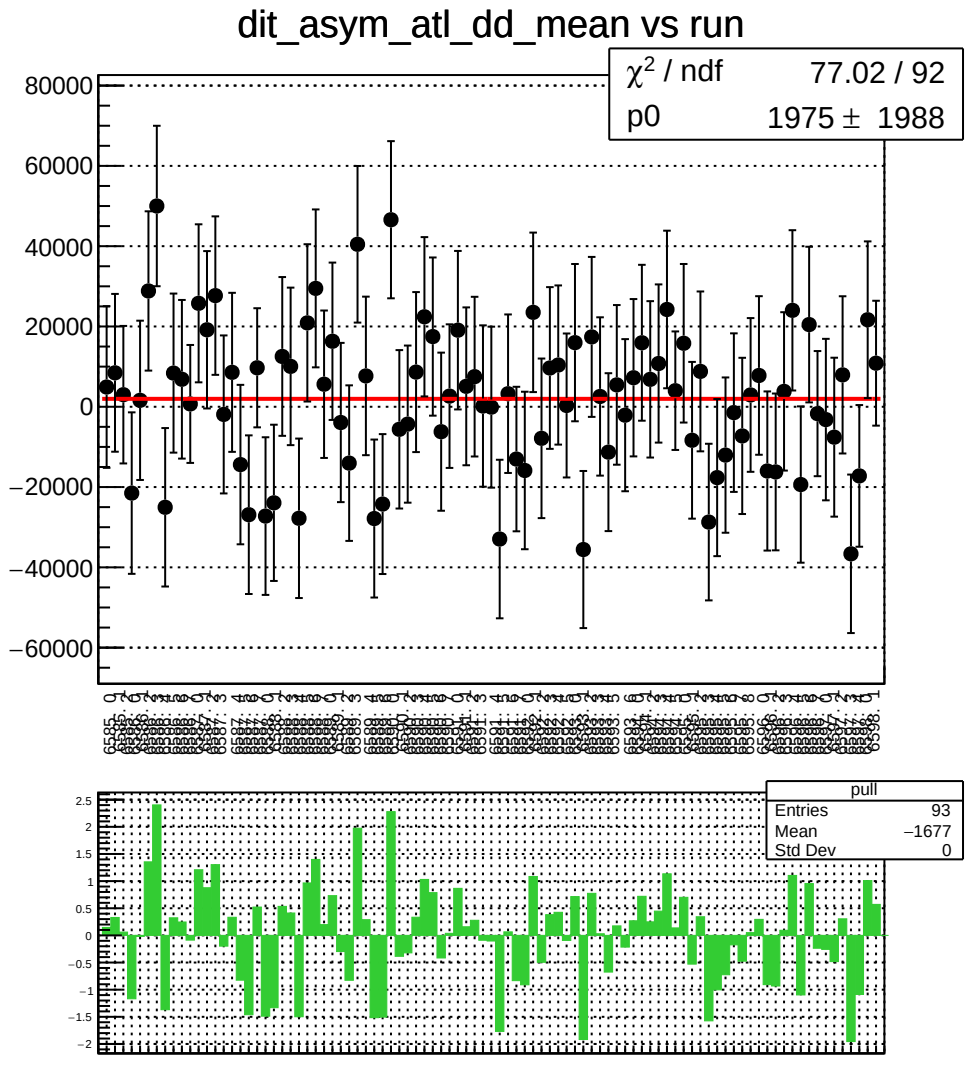

pull1D
Entries 93
Mean 0.0002452
Std Dev 0.935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

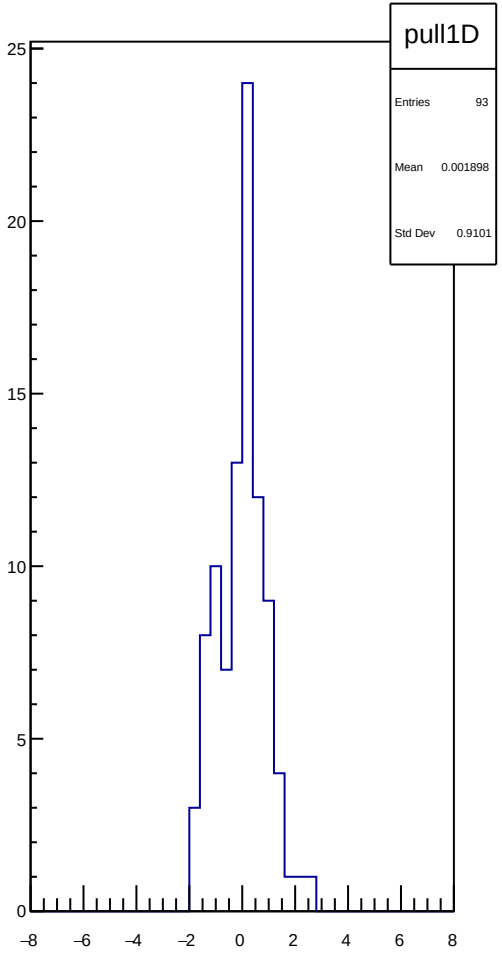

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 102.7 / 92
p0 1830 ± 1.376
1880
1860
1840
1820
1800
1780

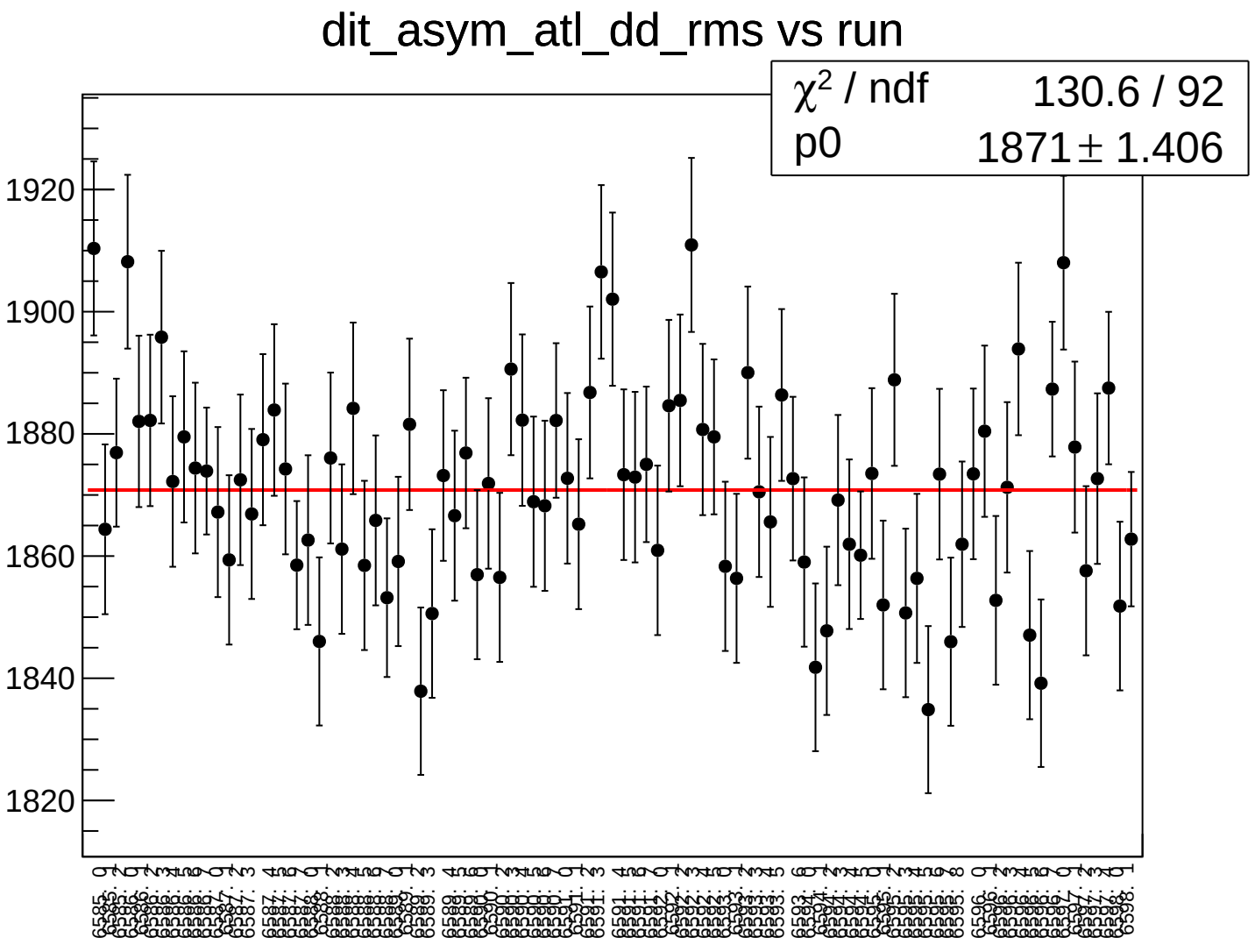

asym_atl_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.59 / 92
p0 −2013 ± 4026
×10³
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 240.7
Std Dev 221.7
2
1
0
−1
−2

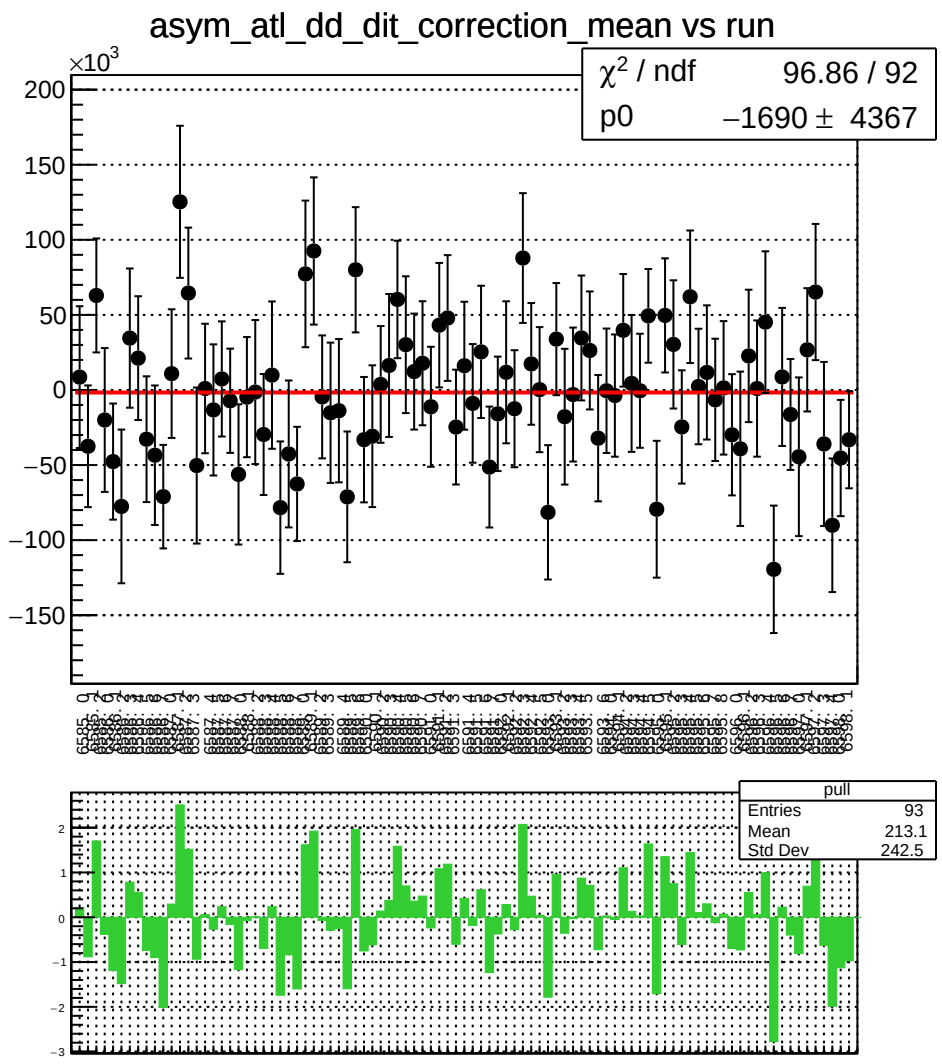

pull1D
Entries 93
Mean −0.00144
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

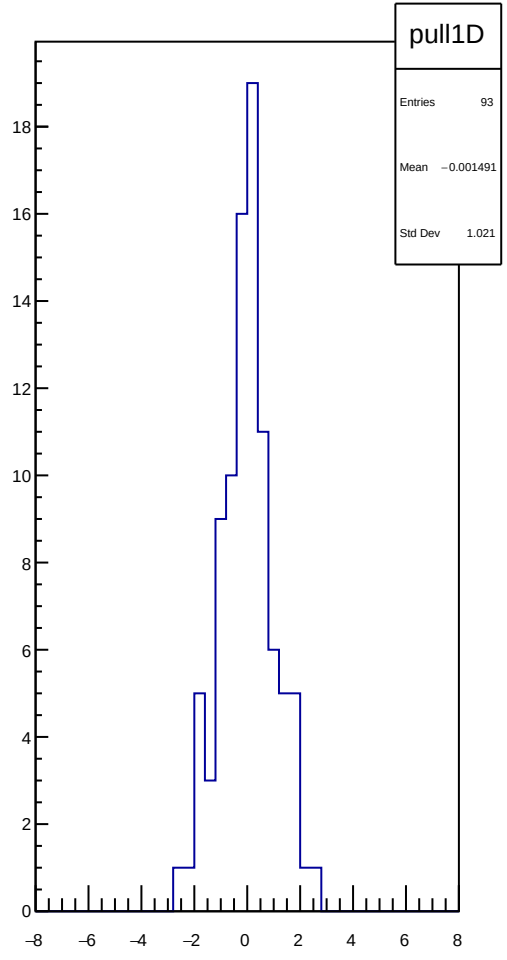

asym_atl_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.333e+04 / 92
p0 3774 ± 2.847
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

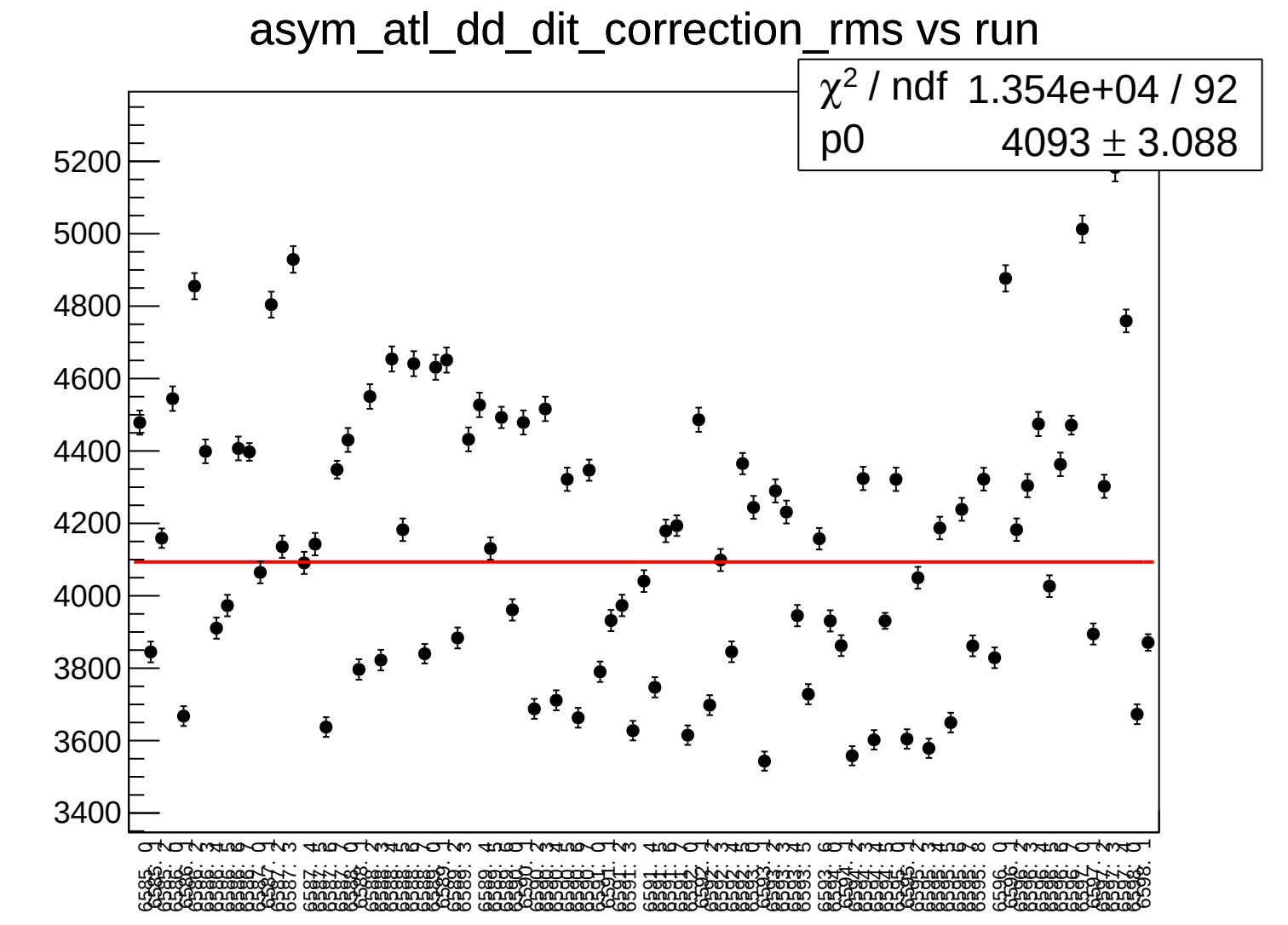

dit_asym_atl_dd_mean vs run
χ² / ndf 77.02 / 92
p0 1975 ± 1988
pull
Entries 93
Mean −1677
Std Dev 0

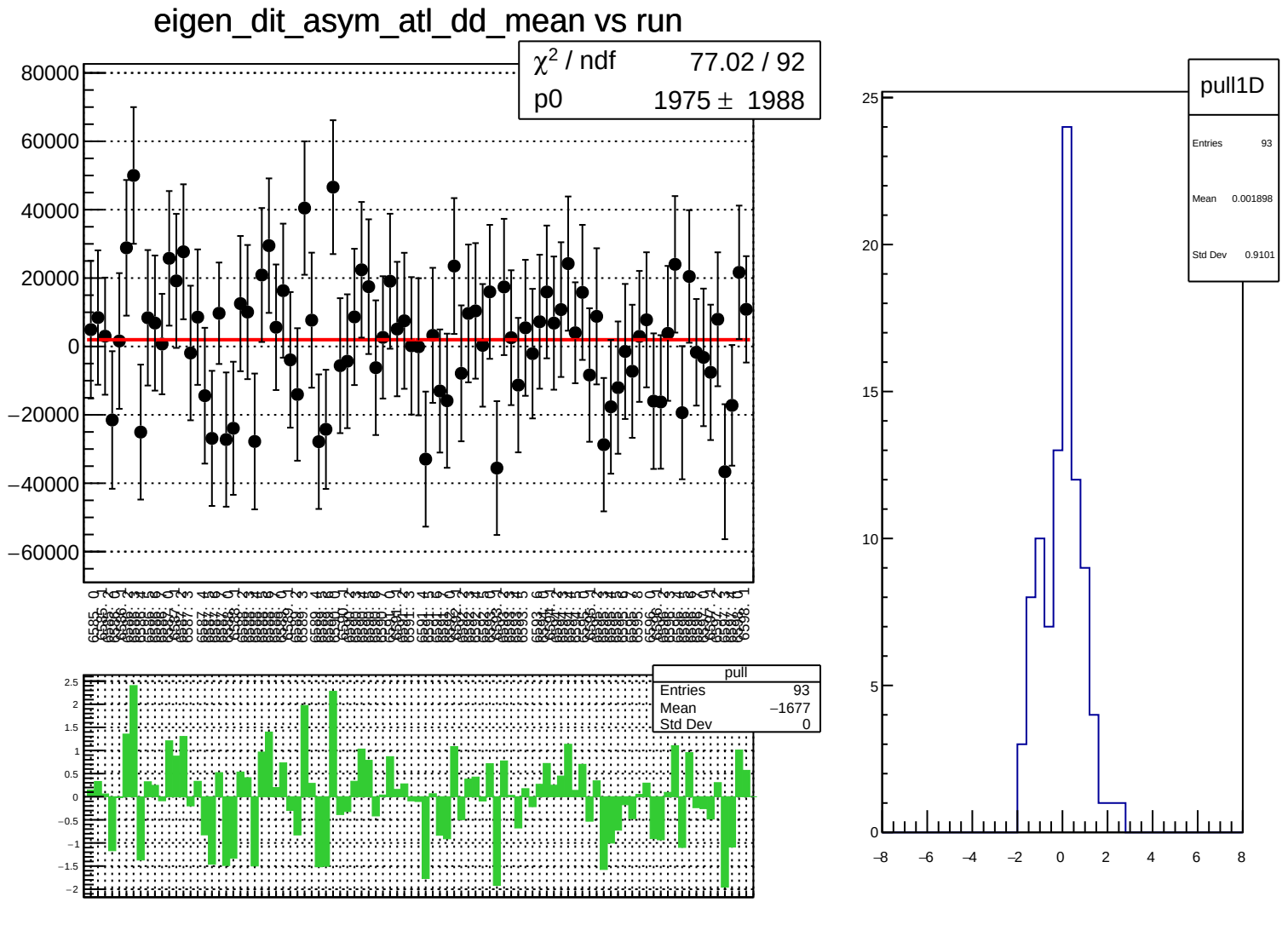

pull1D
Entries 93
Mean 0.001898
Std Dev 0.9101

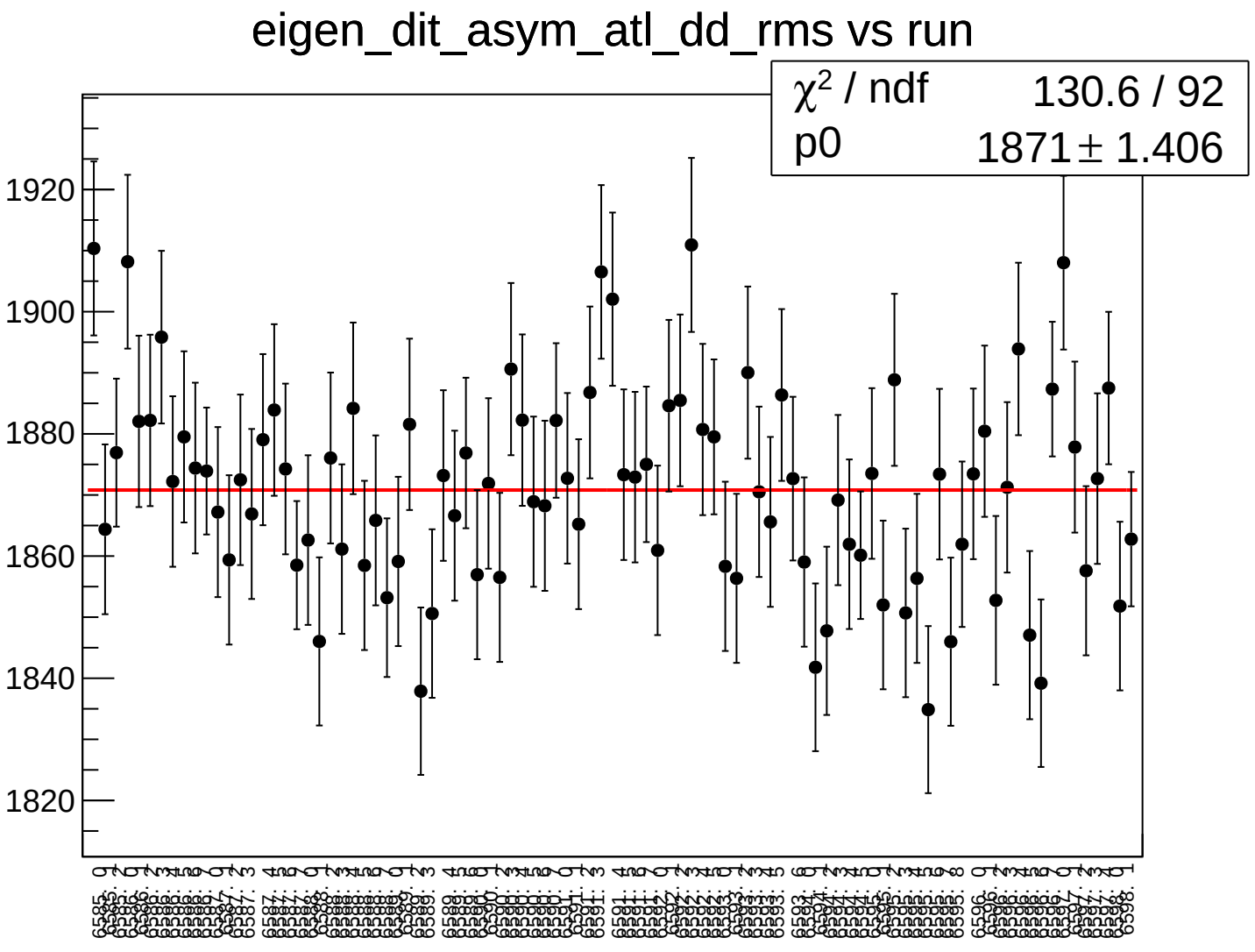

dit_asym_atl_dd_rms vs run
χ^2 / ndf 130.6 / 92
p0 1871 ± 1.406
1920
1900
1880
1860
1840
1820

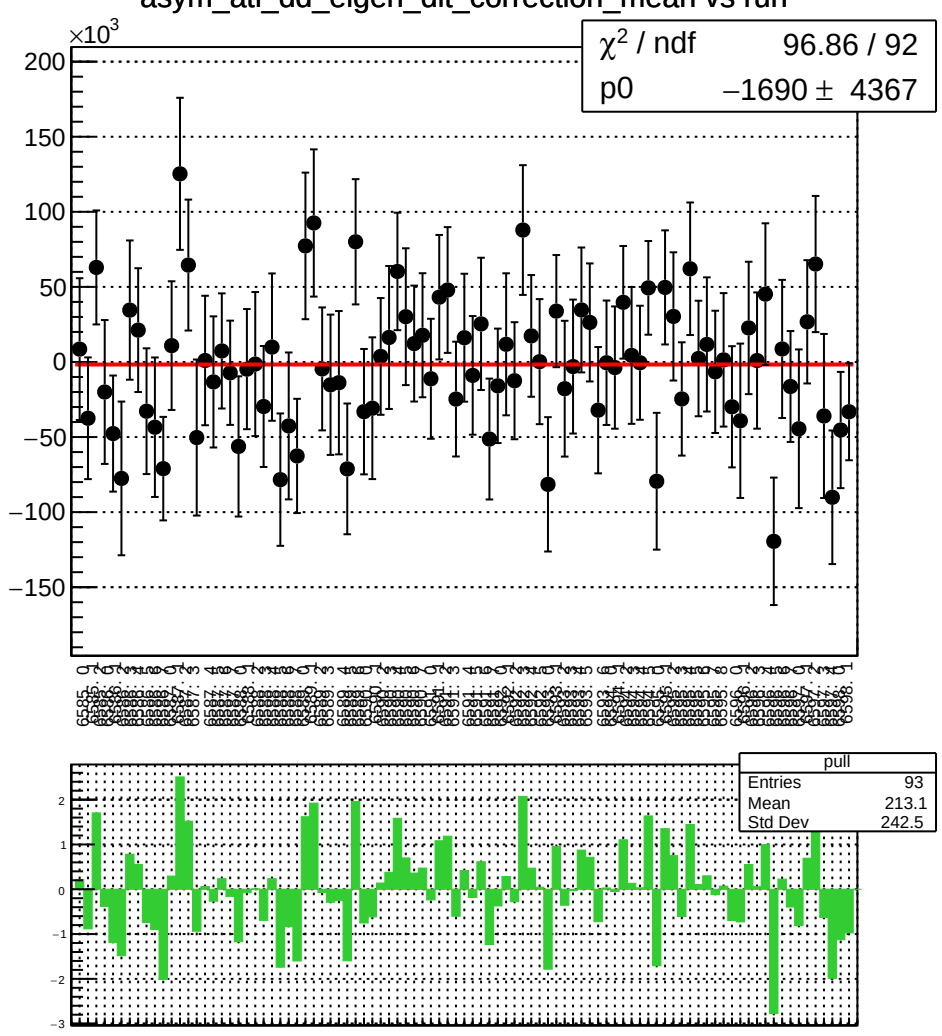

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.86 / 92
p0 −1690 ± 4367
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 213.1
Std Dev 242.5
2
1
0
−1
−2
−3

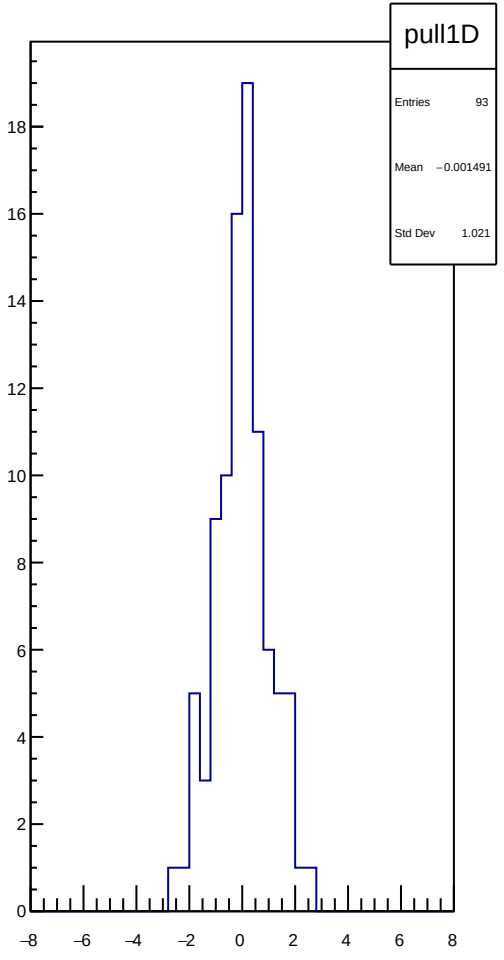

pull1D
Entries 93
Mean −0.001491
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

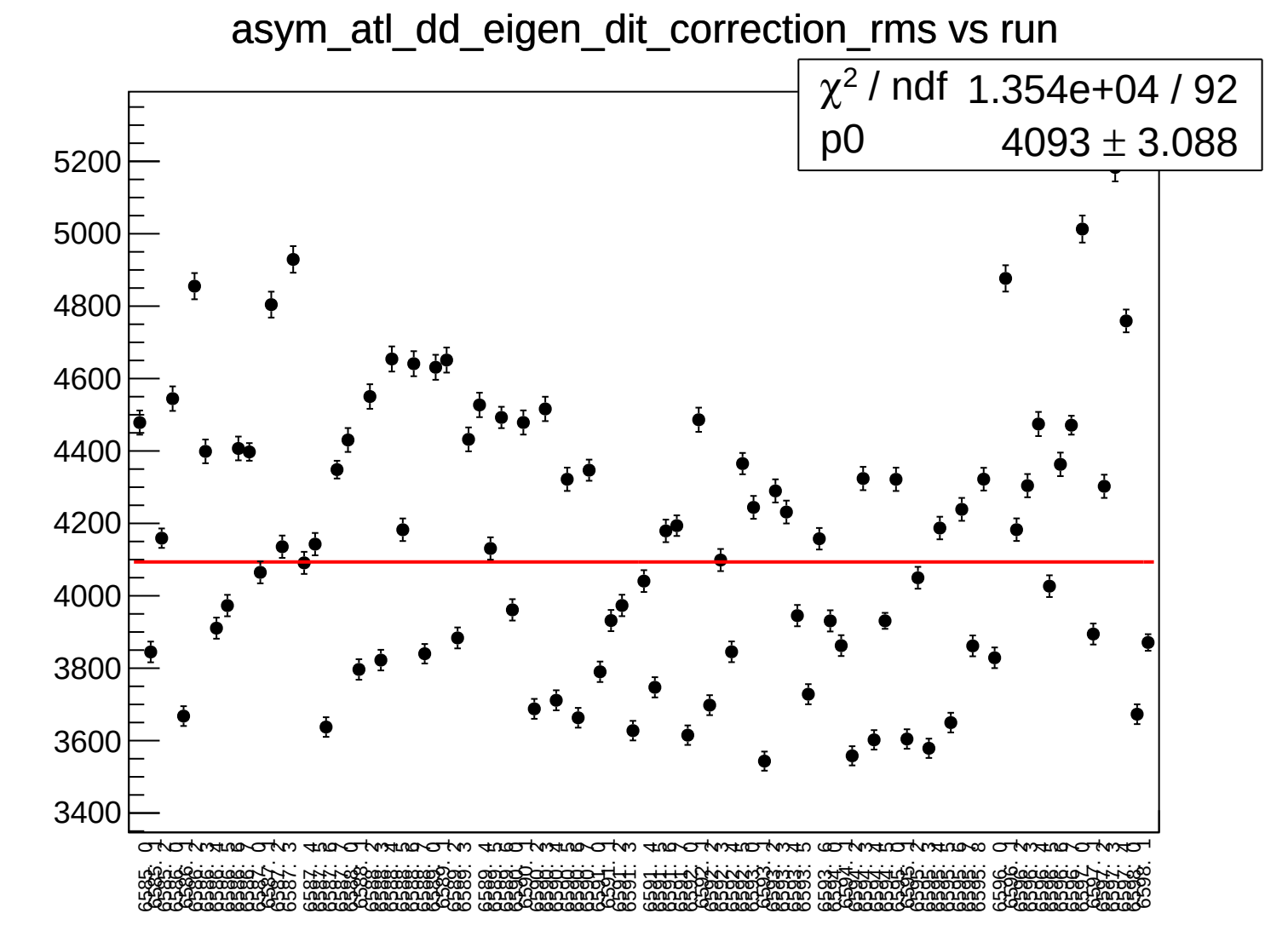

asym_atl_dd_dit_correction_rms vs run
χ^2 / ndf 1.354e+04 / 92
p0 4093 ± 3.088
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

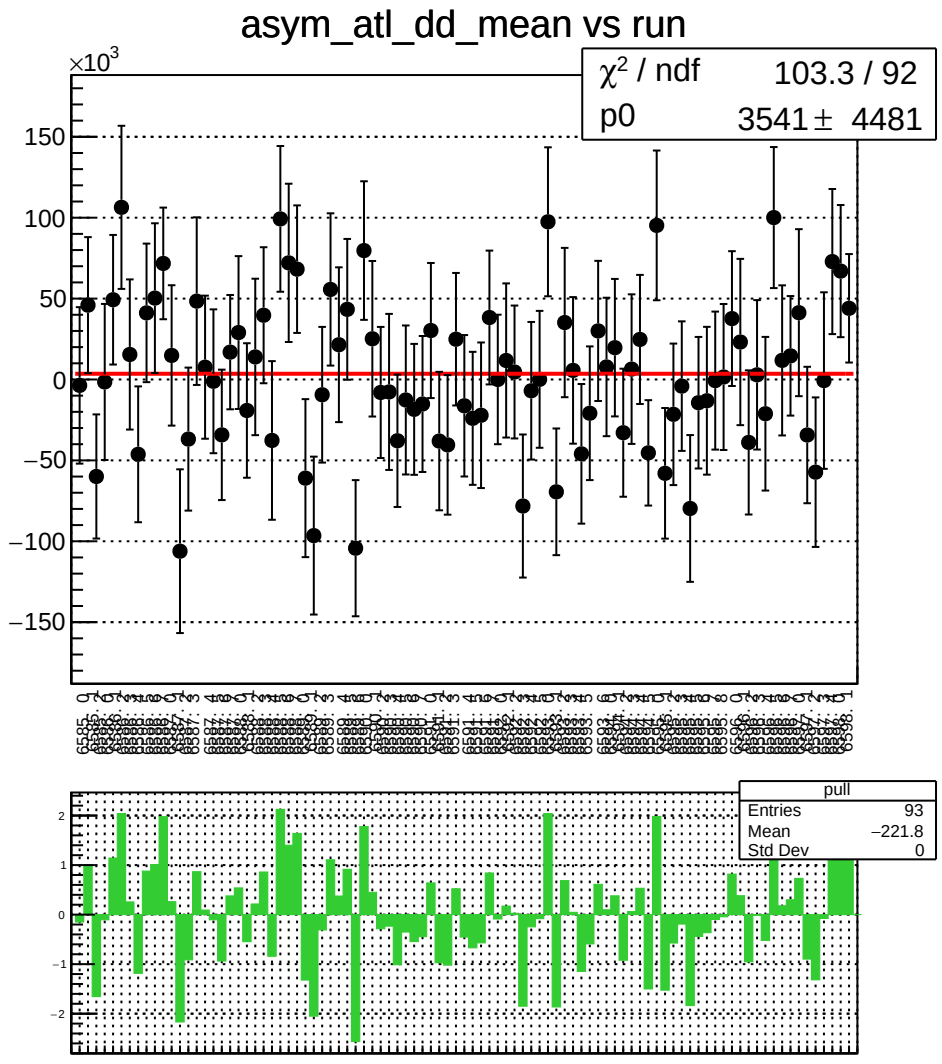

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 77.02 / 92
p0 1975 ± 1988
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −1677
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.001898
Std Dev 0.9101
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

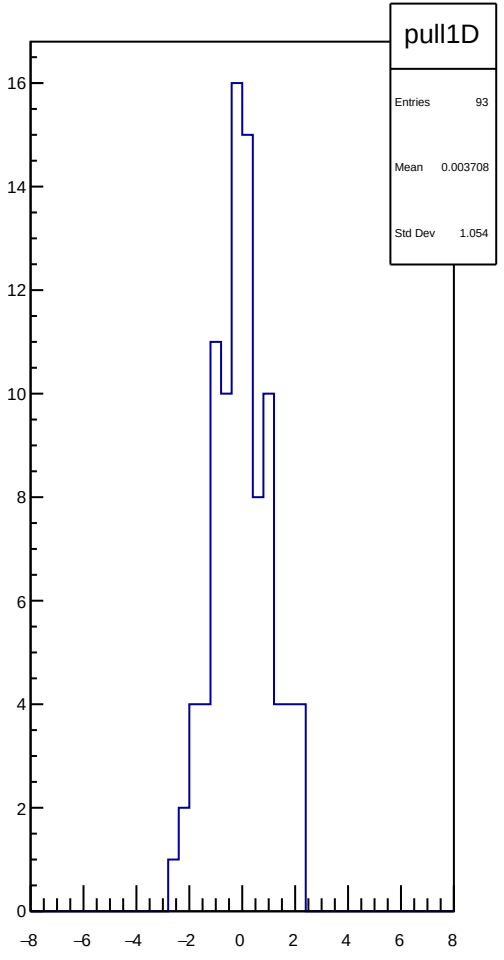

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 130.6 / 92
p0 1871 ± 1.406
1920
1900
1880
1860
1840
1820

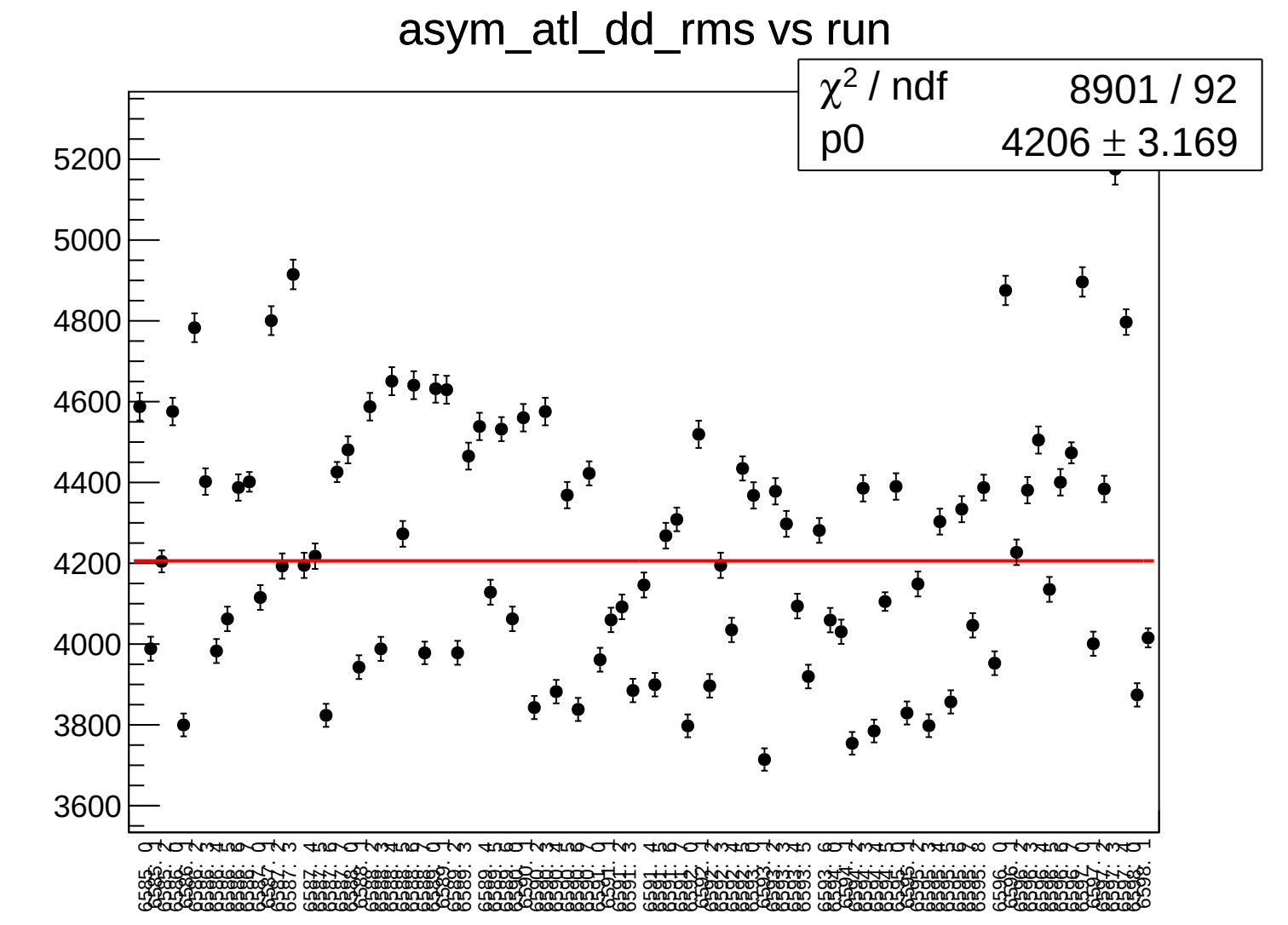

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.86 / 92
p0 −1690 ± 4367
pull
Entries 93
Mean 213.1
Std Dev 242.5

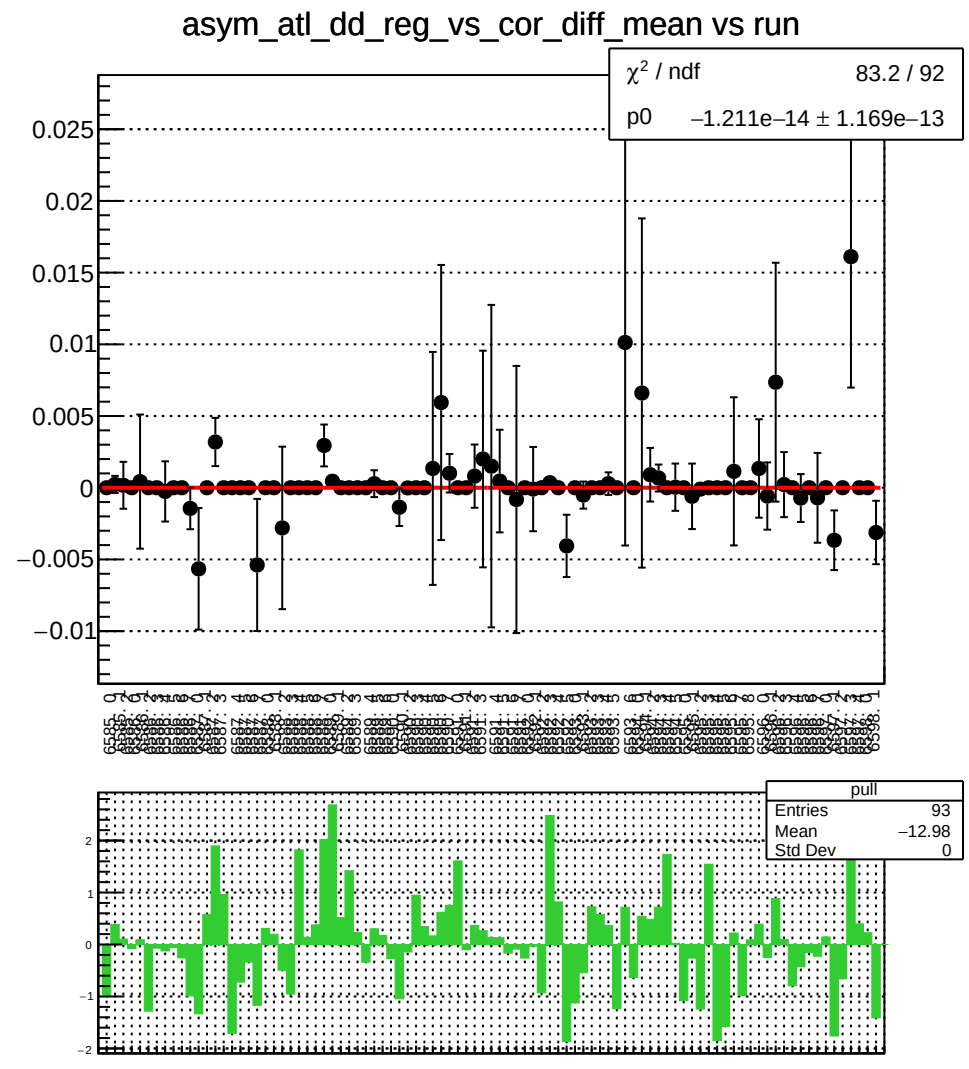

pull1D
Entries 93
Mean −0.001491
Std Dev 1.021

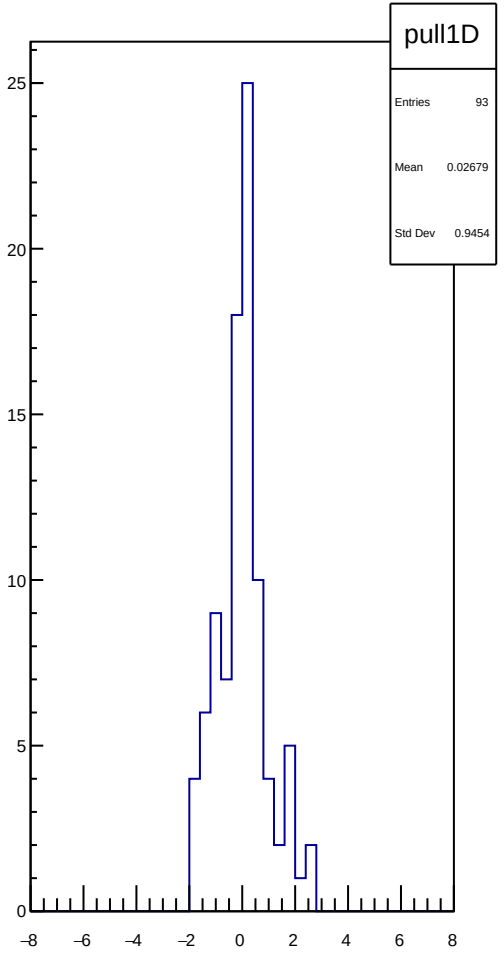

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.354e+04 / 92
p0 4093 ± 3.088
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

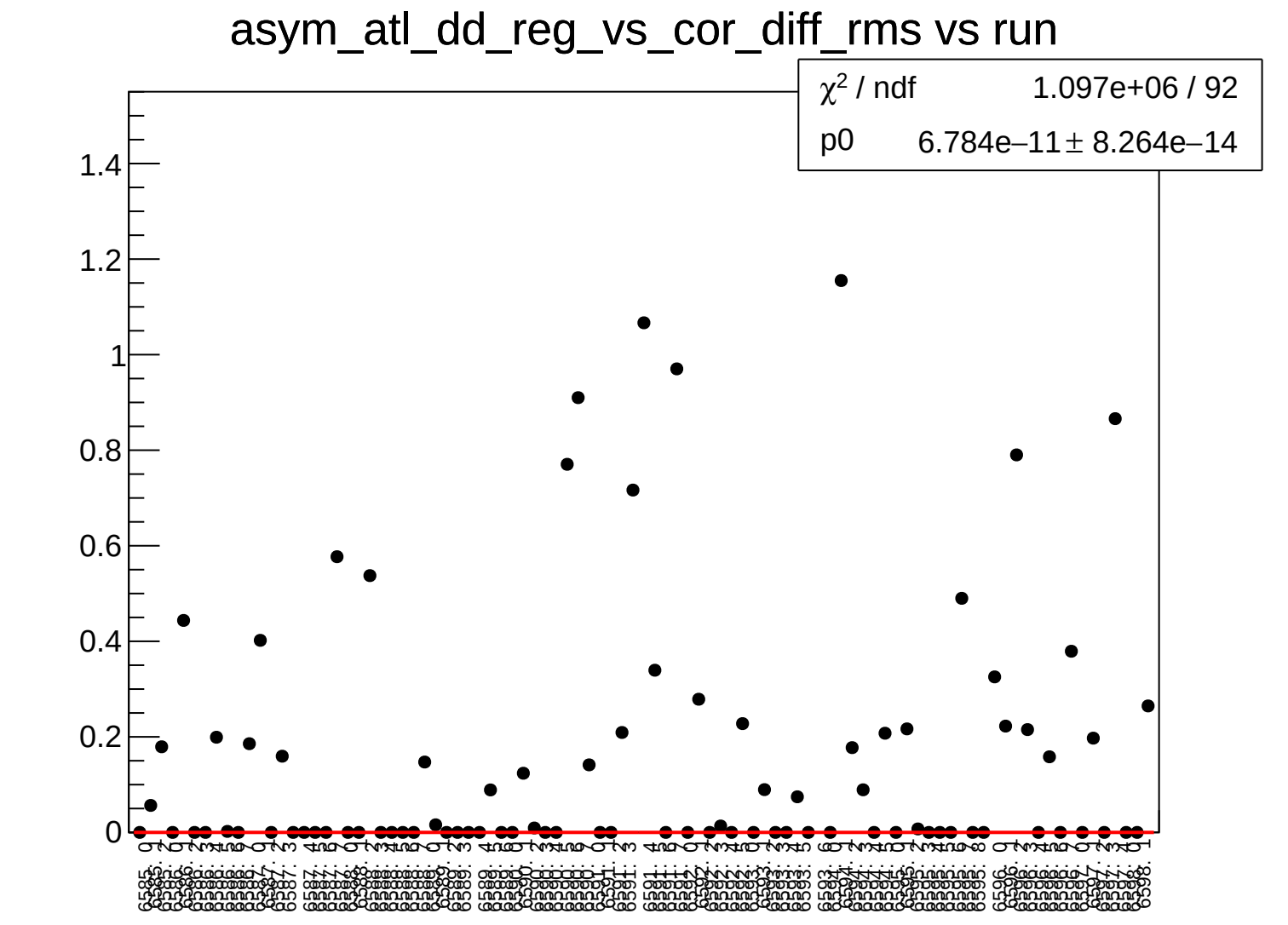

asym_atl_dd_mean vs run
×10^3
χ² / ndf 103.3 / 92
p0 3541 ± 4481
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −221.8
Std Dev 0
2
1
0
−1
−2

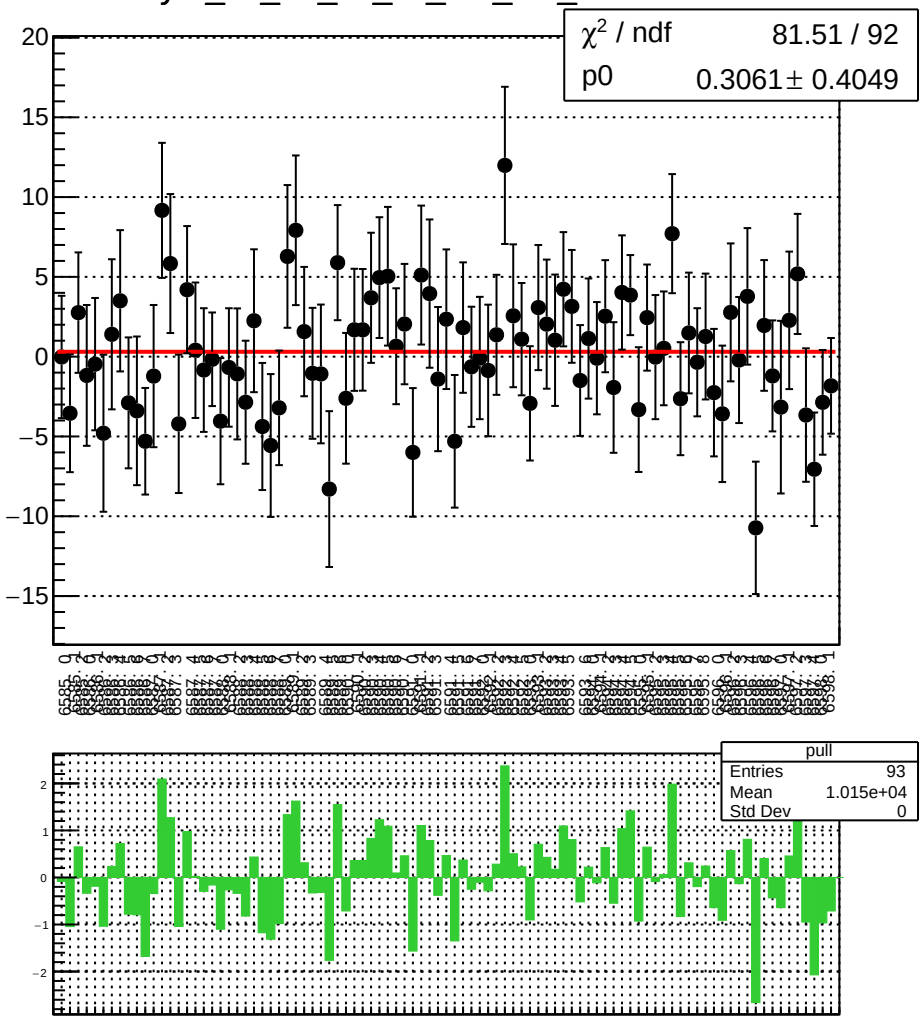

pull1D
Entries 93
Mean 0.003708
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

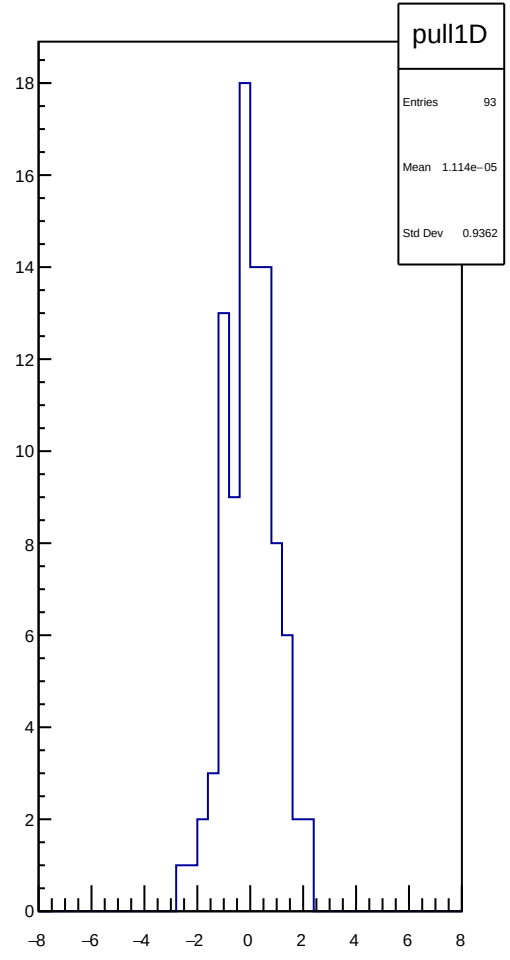

asym_atl_dd_rms vs run
χ² / ndf 8901 / 92
p0 4206 ± 3.169
5200
5000
4800
4600
4400
4200
4000
3800
3600

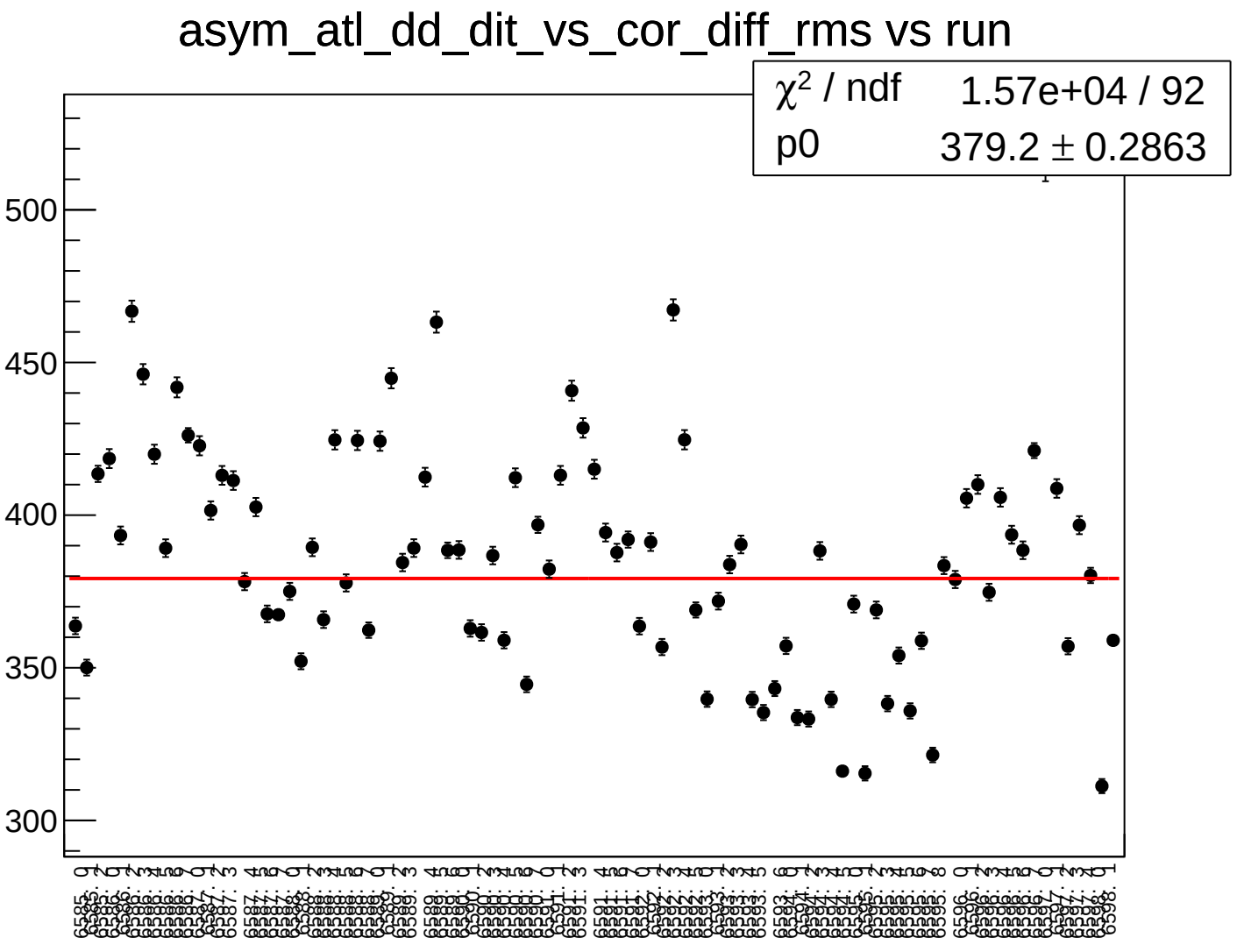

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.2 / 92
p0 −1.211e−14 ± 1.169e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean −12.98
Std Dev 0
2
1
0
−1
−2

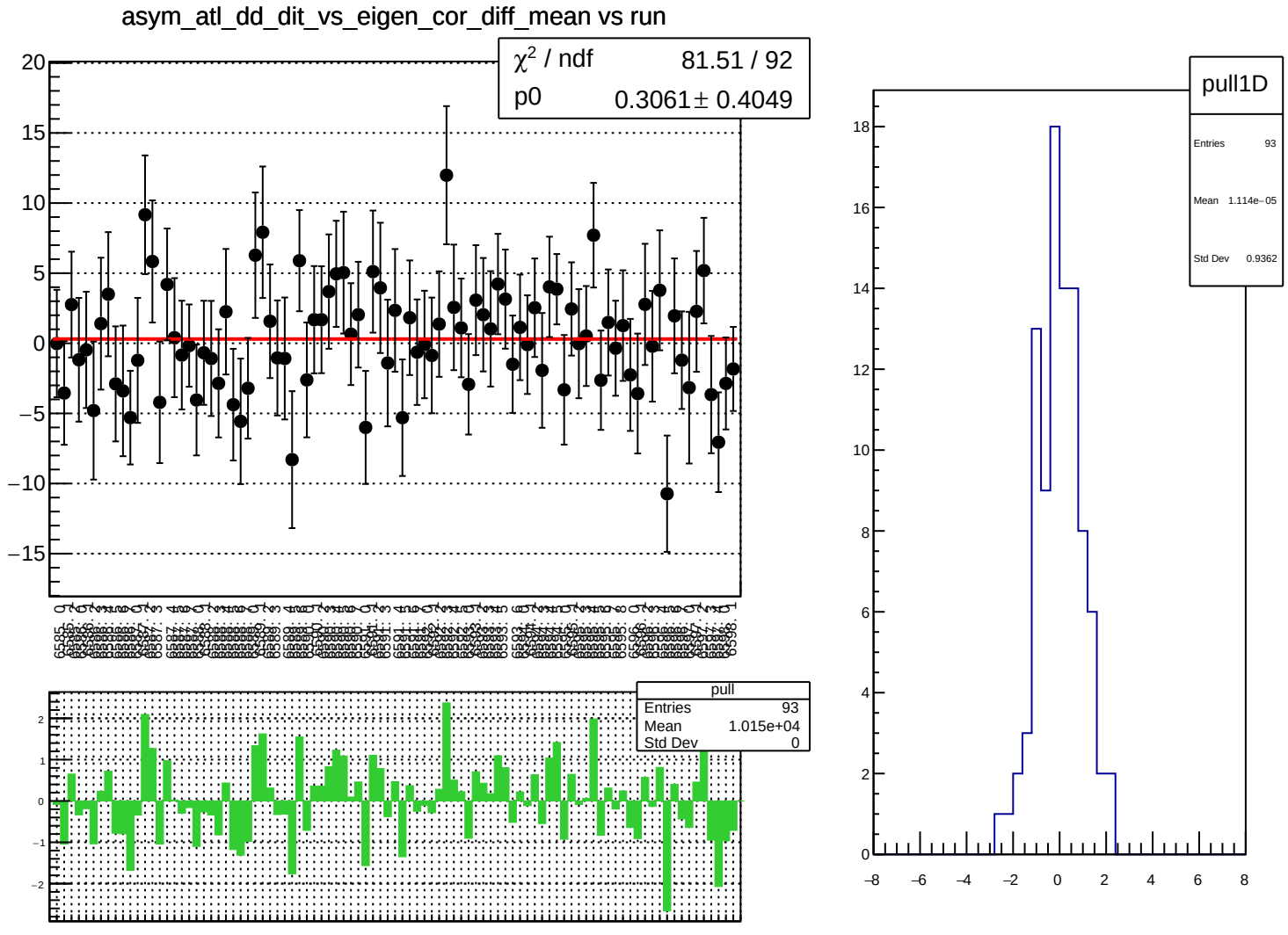

pull1D
Entries 93
Mean 0.02679
Std Dev 0.9454
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

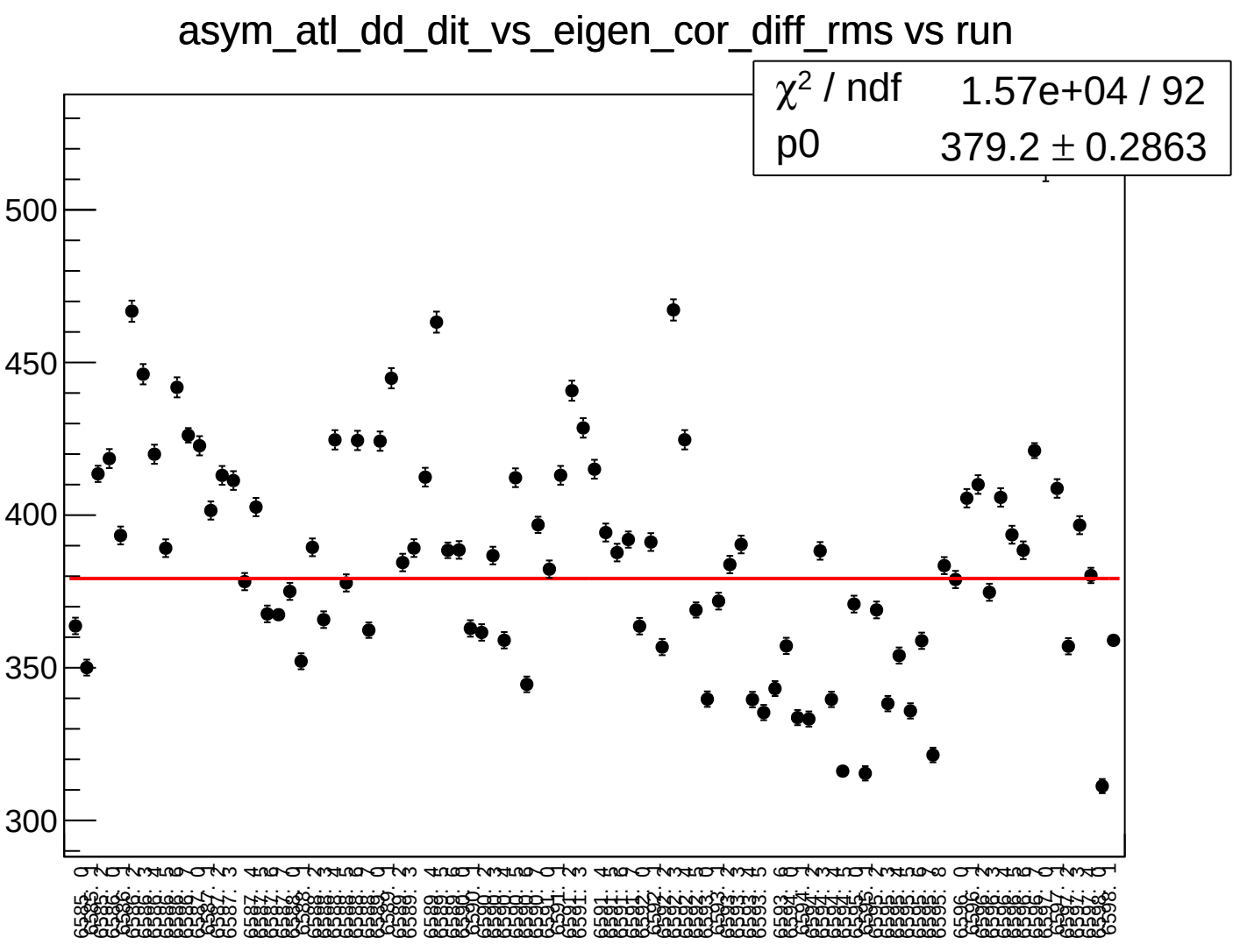

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 92
p0 6.784e−11 ± 8.264e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

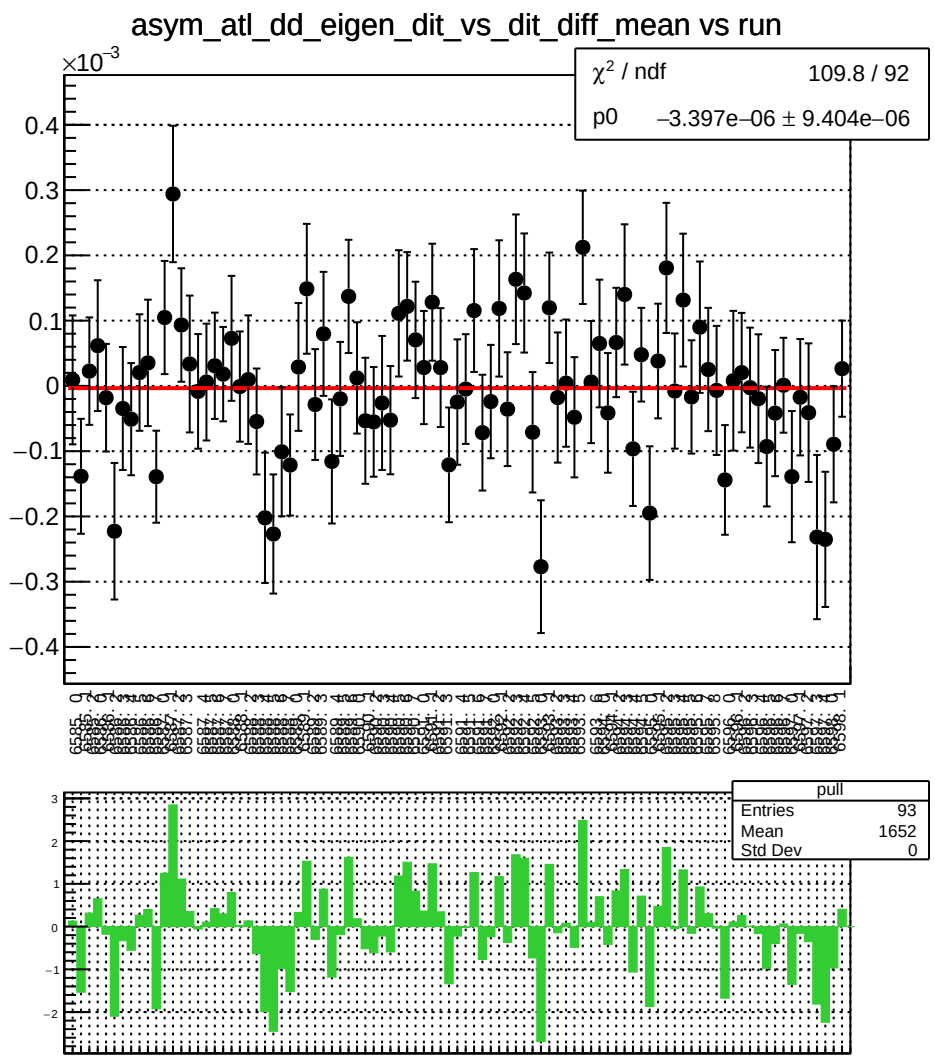

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.51 / 92
p0 0.3061 ± 0.4049
pull
Entries 93
Mean 1.015e+04
Std Dev 0

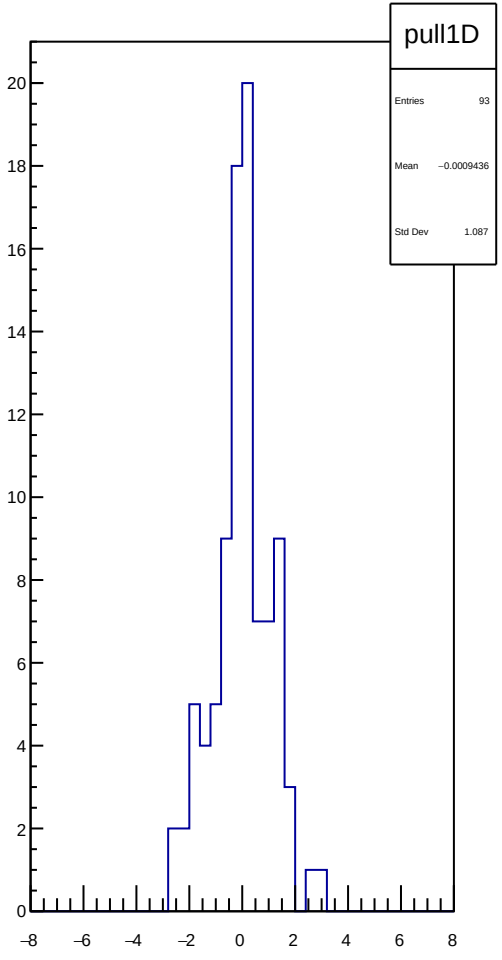

pull1D
Entries 93
Mean 1.114e−05
Std Dev 0.9362

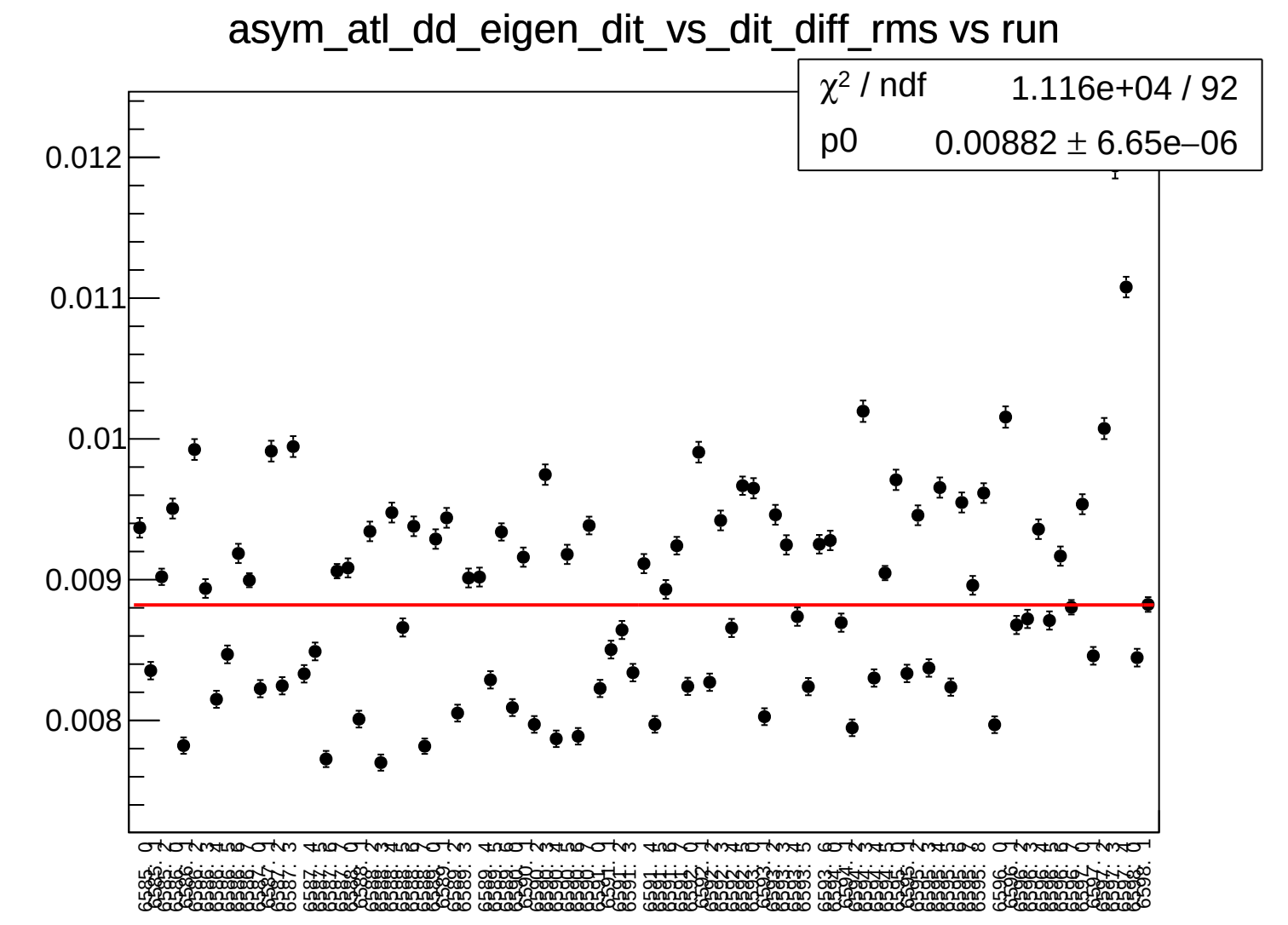

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.57e+04 / 92
p0 379.2 ± 0.2863
500
450
400
350
300

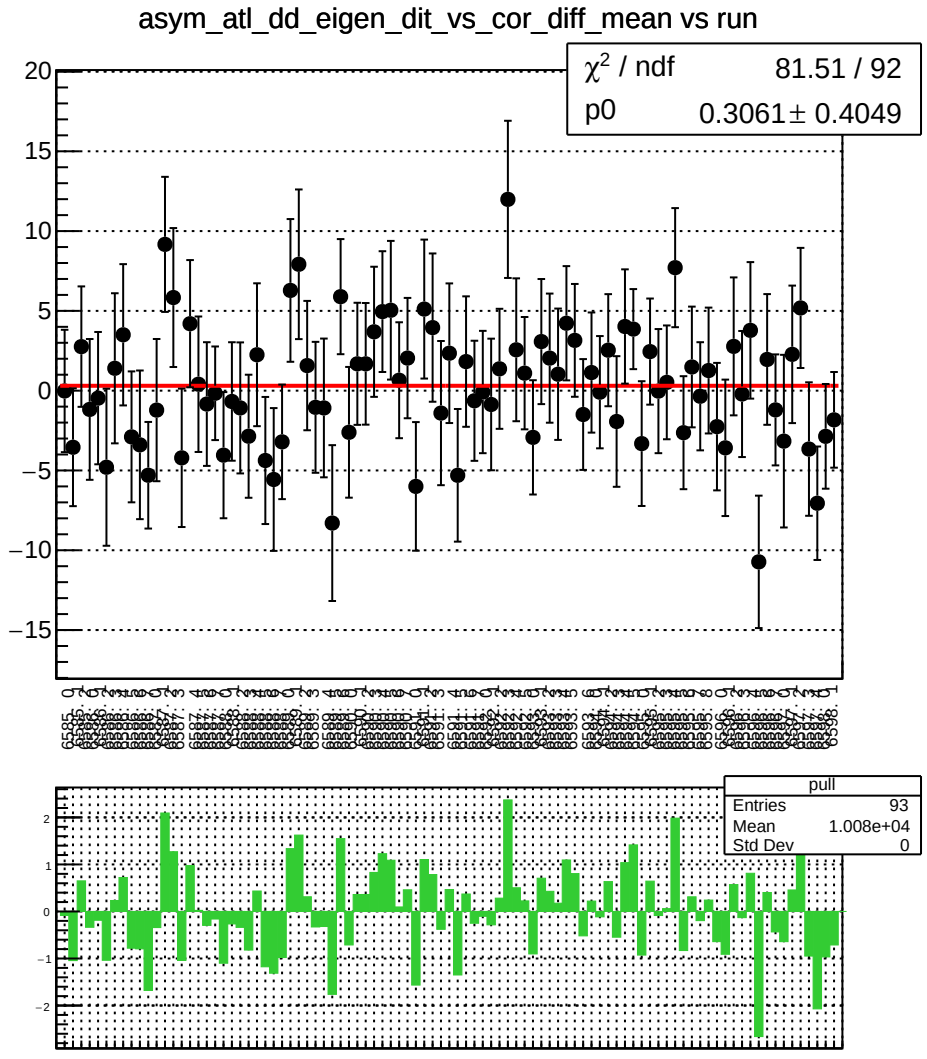

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.51 / 92
p0 0.3061 ± 0.4049
pull
Entries 93
Mean 1.015e+04
Std Dev 0
pull1D
Entries 93
Mean 1.114e−05
Std Dev 0.9362

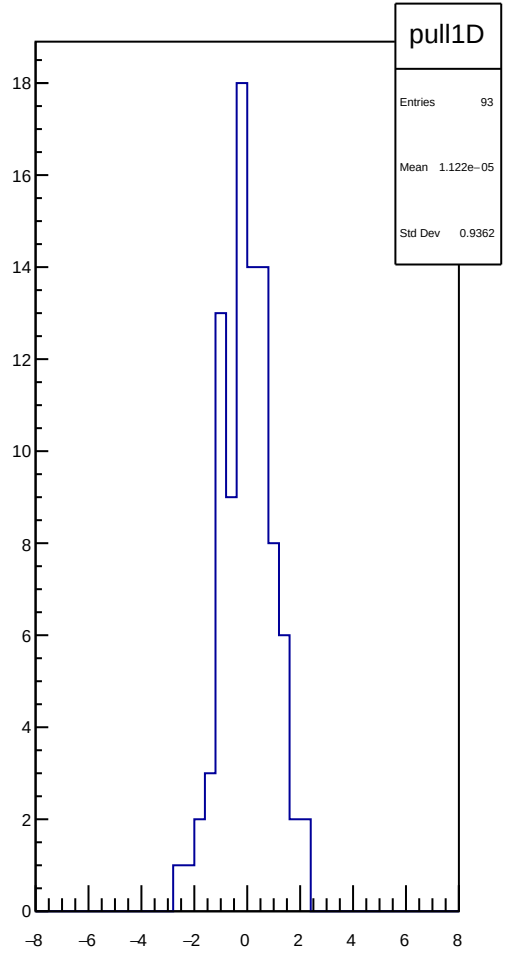

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.57e+04 / 92
p0 379.2 ± 0.2863
500
450
400
350
300

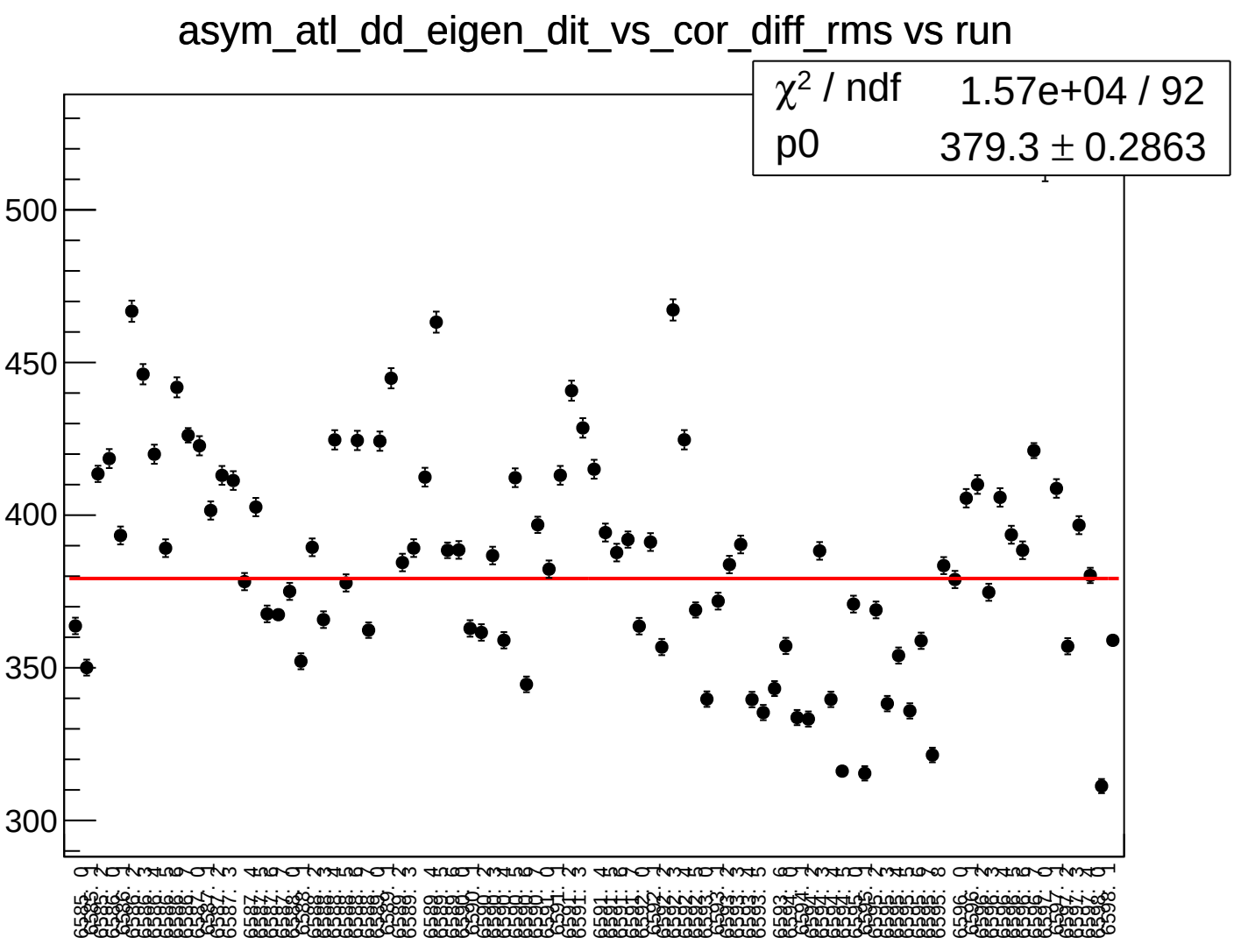

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.8 / 92
p0 −3.397e−06 ± 9.404e−06
pull
Entries 93
Mean 1652
Std Dev 0

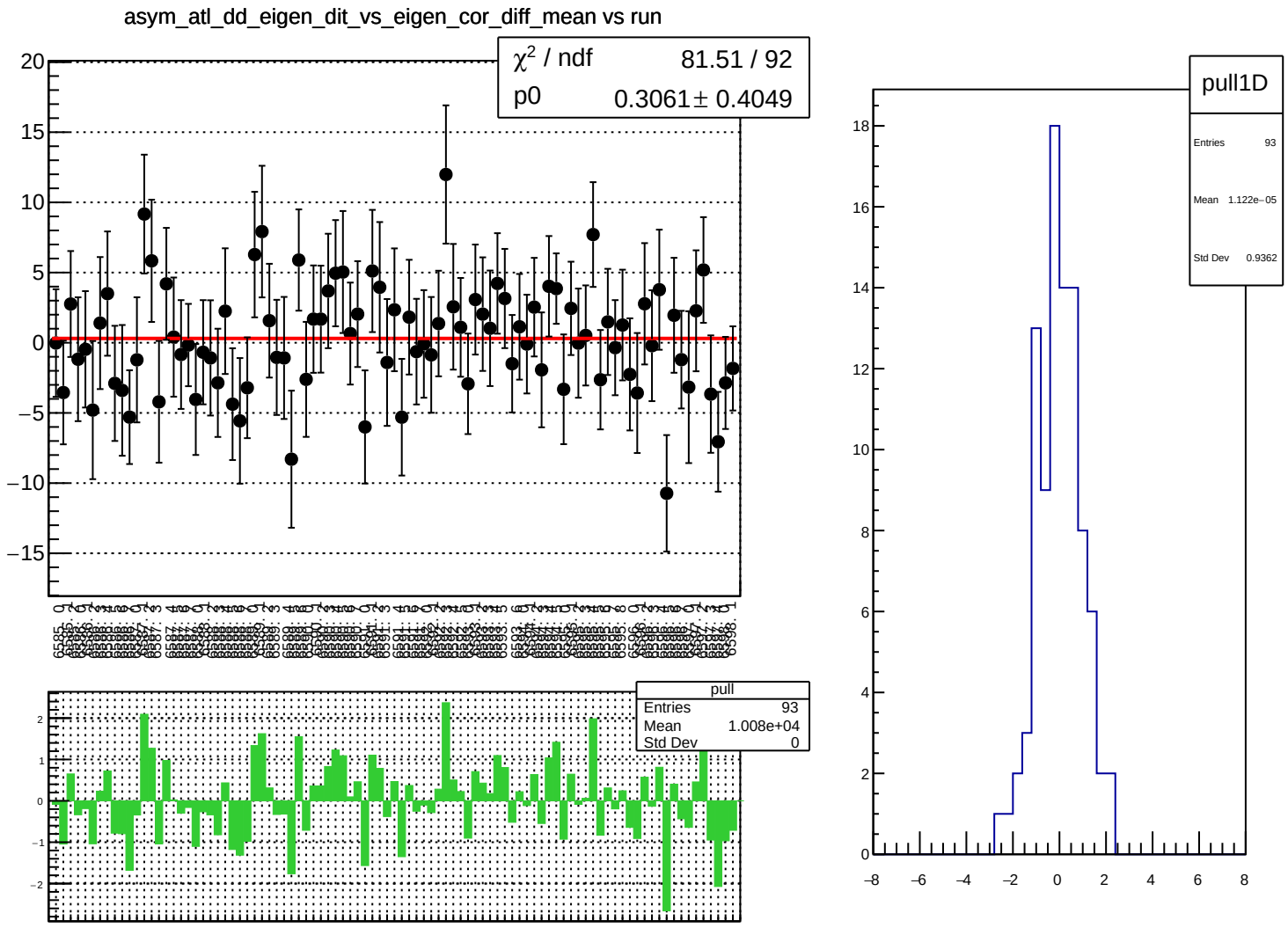

pull1D
Entries 93
Mean −0.0009436
Std Dev 1.087

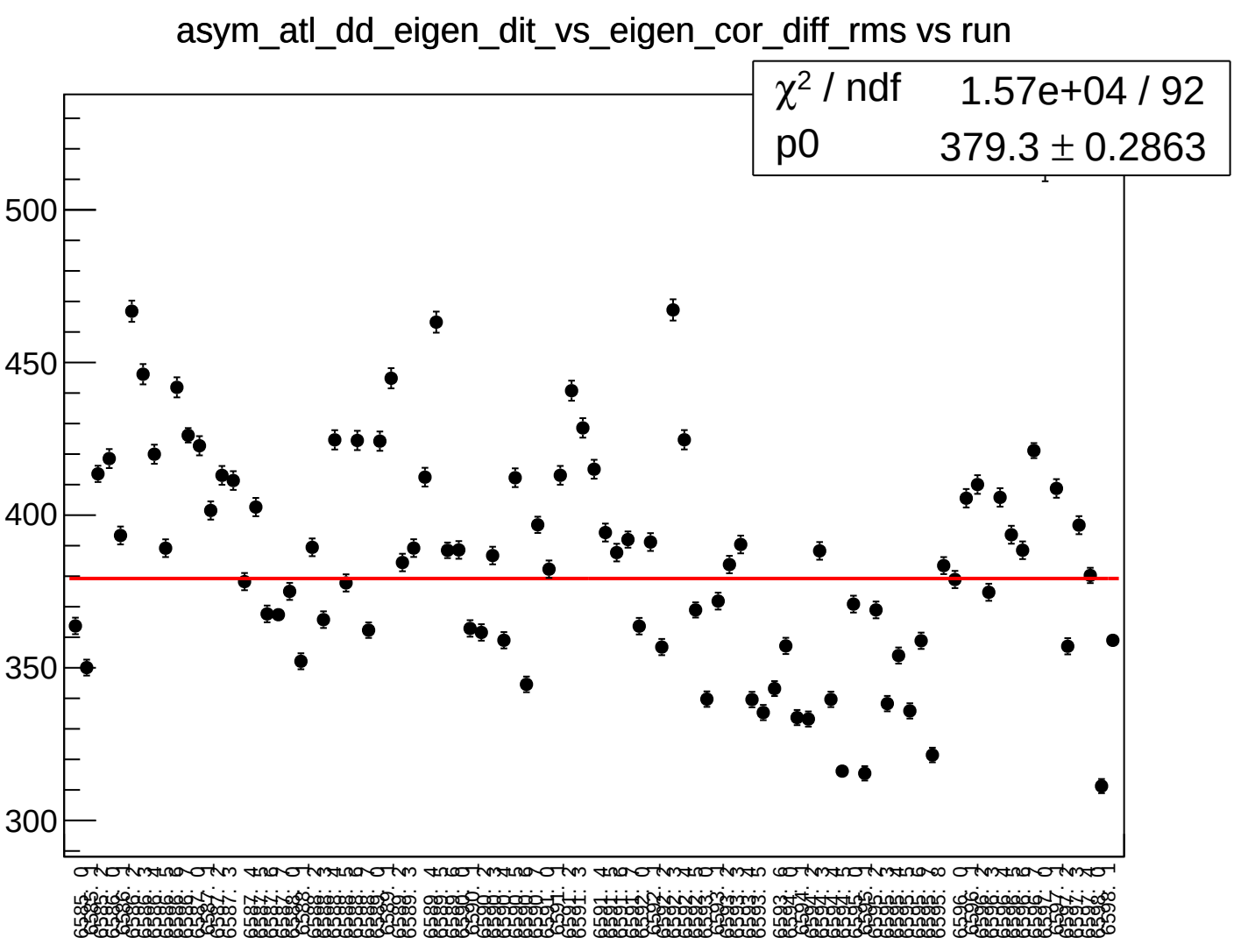

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.116e+04 / 92
p0 0.00882 ± 6.65e−06
0.012
0.011
0.01
0.009
0.008

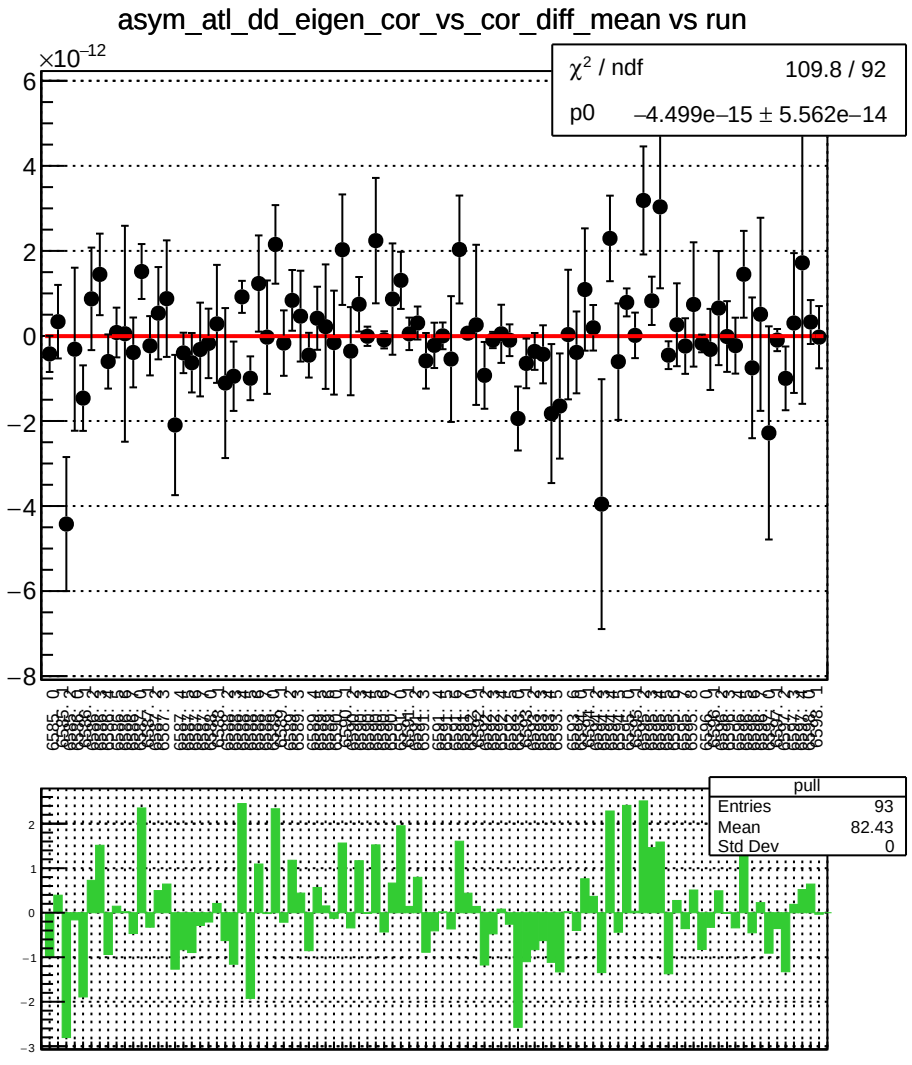

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.51 / 92
p0 0.3061 ± 0.4049
pull
Entries 93
Mean 1.008e+04
Std Dev 0

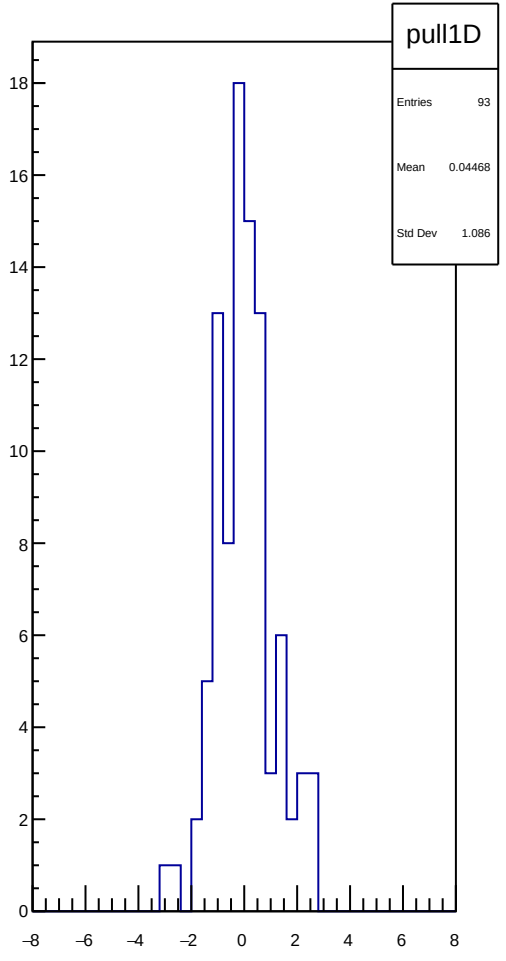

pull1D
Entries 93
Mean 1.122e−05
Std Dev 0.9362

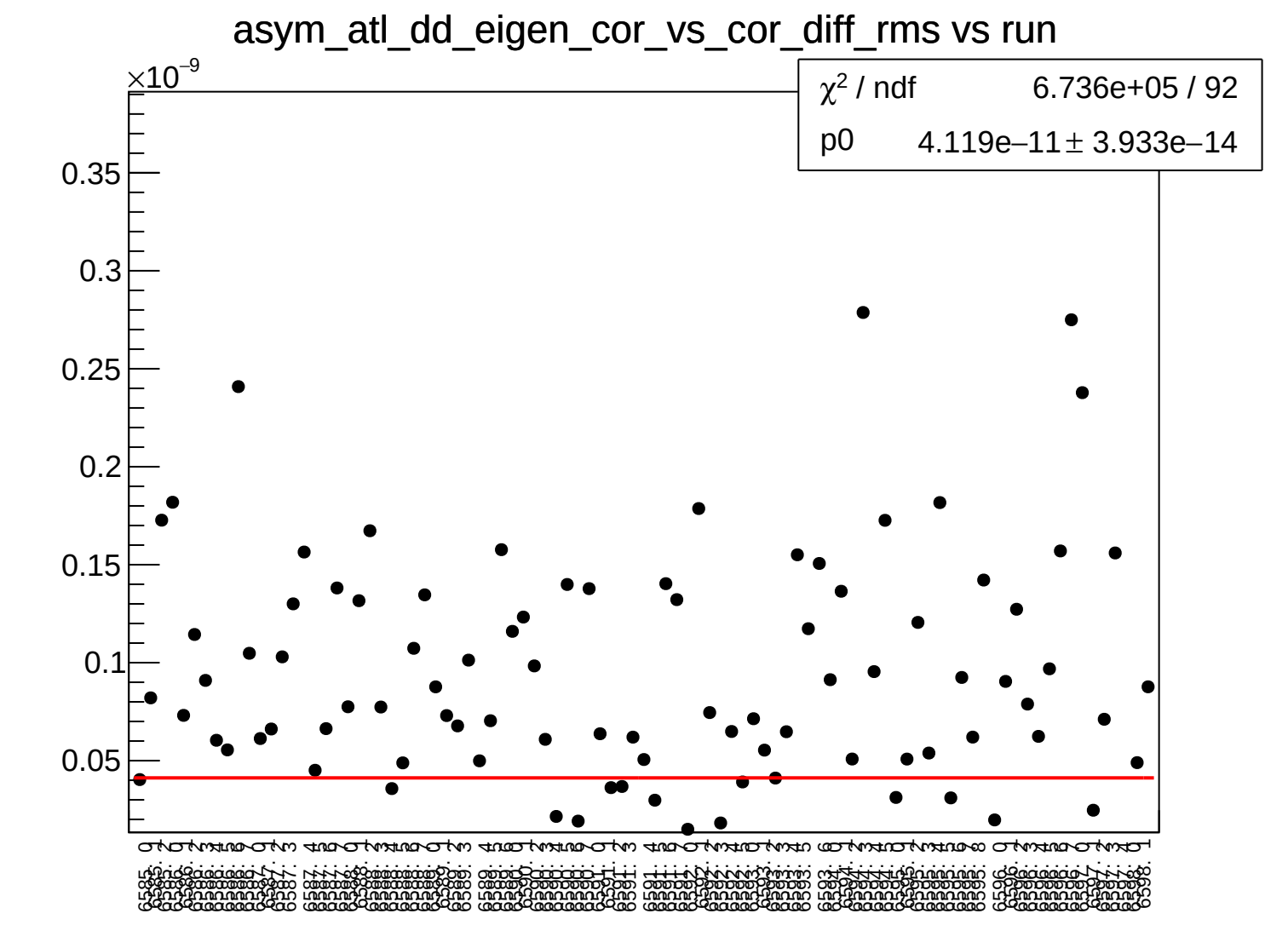

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.57e+04 / 92
p0 379.3 ± 0.2863
500
450
400
350
300

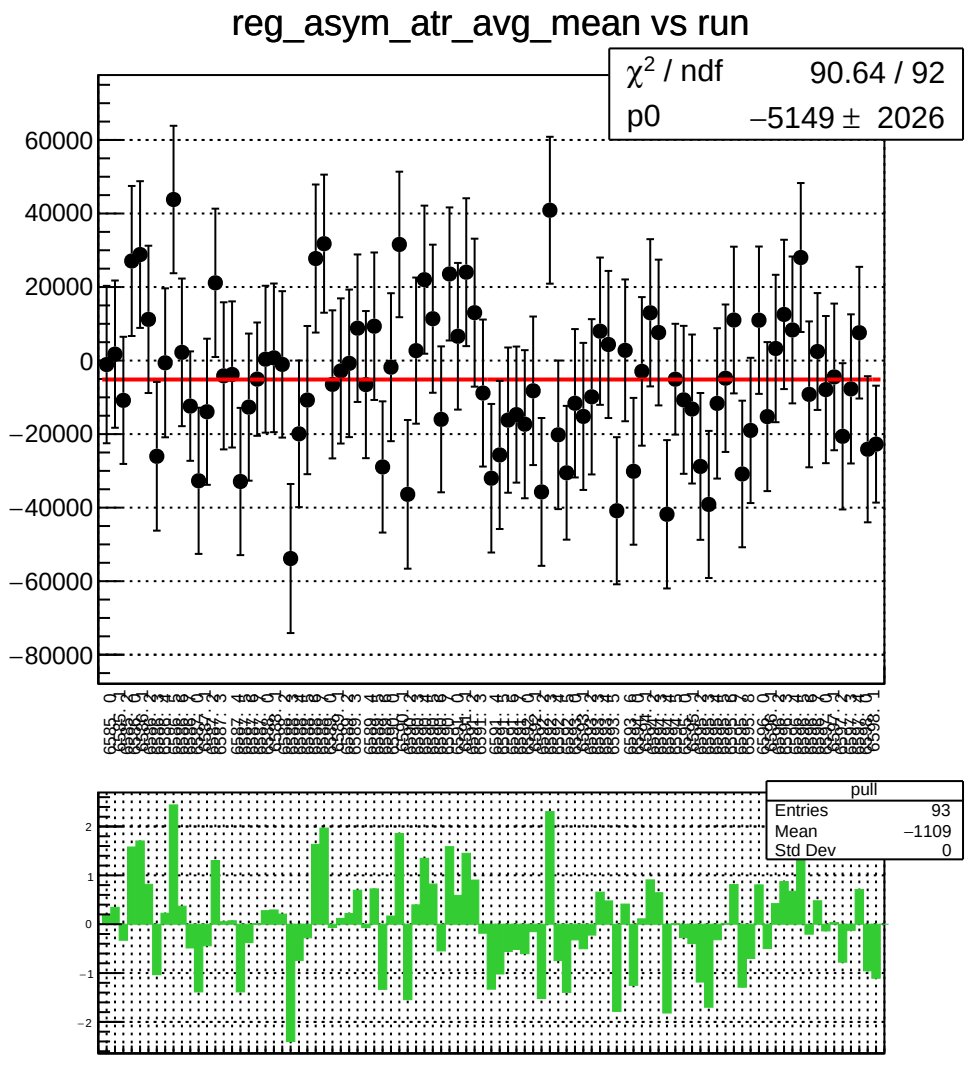

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.51 / 92
p0 0.3061 ± 0.4049
pull
Entries 93
Mean 1.008e+04
Std Dev 0
pull1D
Entries 93
Mean 1.122e−05
Std Dev 0.9362

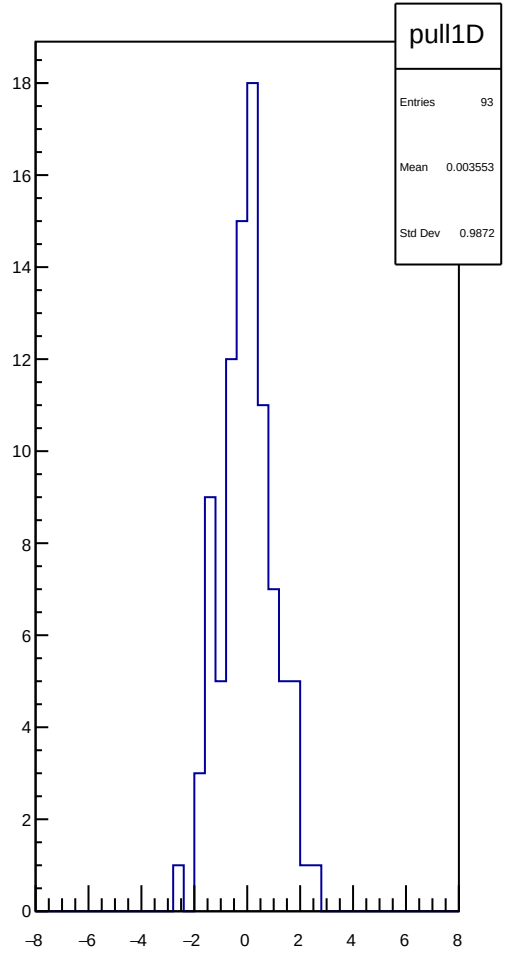

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.57e+04 / 92
p0 379.3 ± 0.2863
500
450
400
350
300

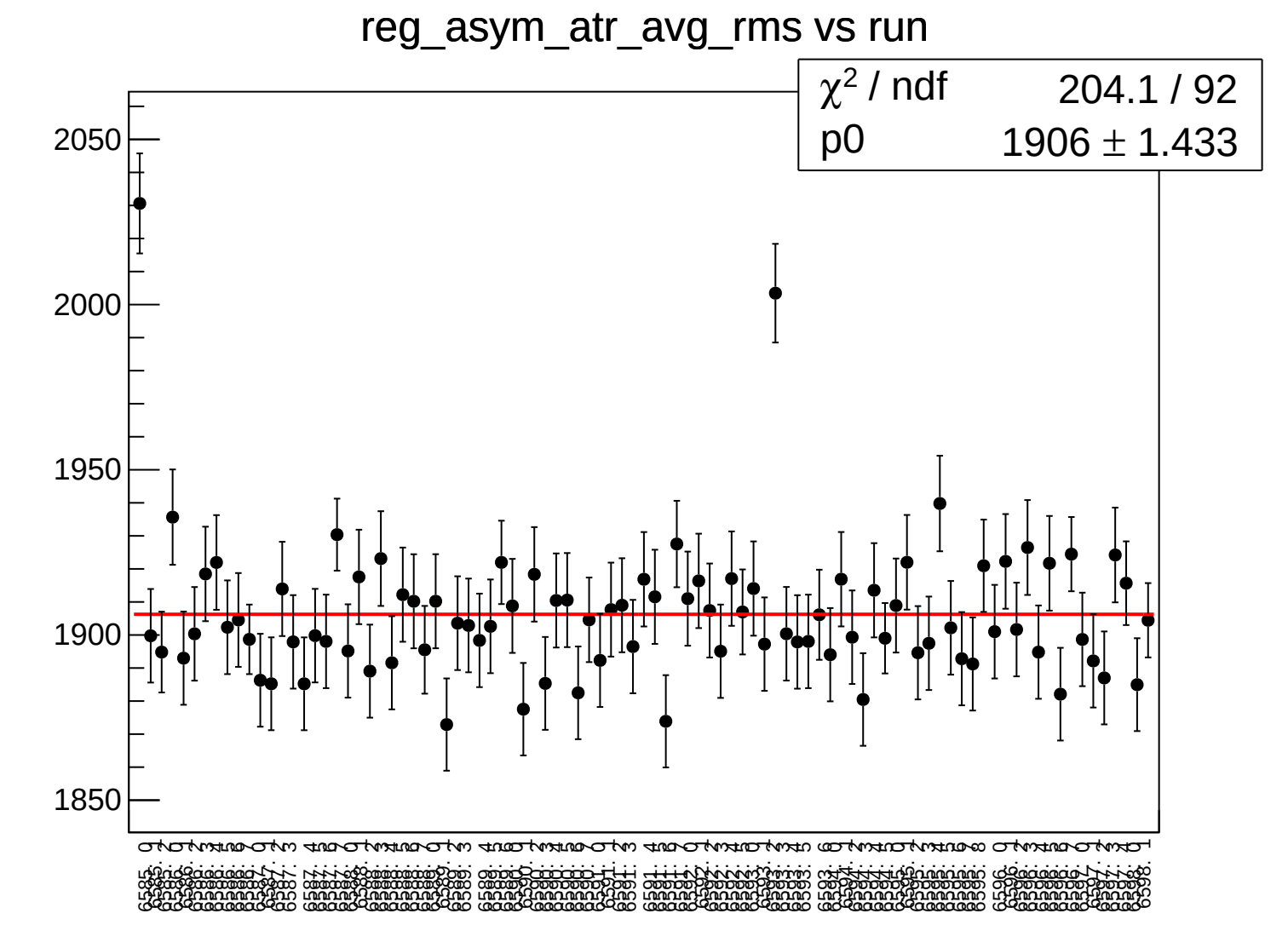

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 109.8 / 92
p0 −4.499e−15 ± 5.562e−14
pull
Entries 93
Mean 82.43
Std Dev 0

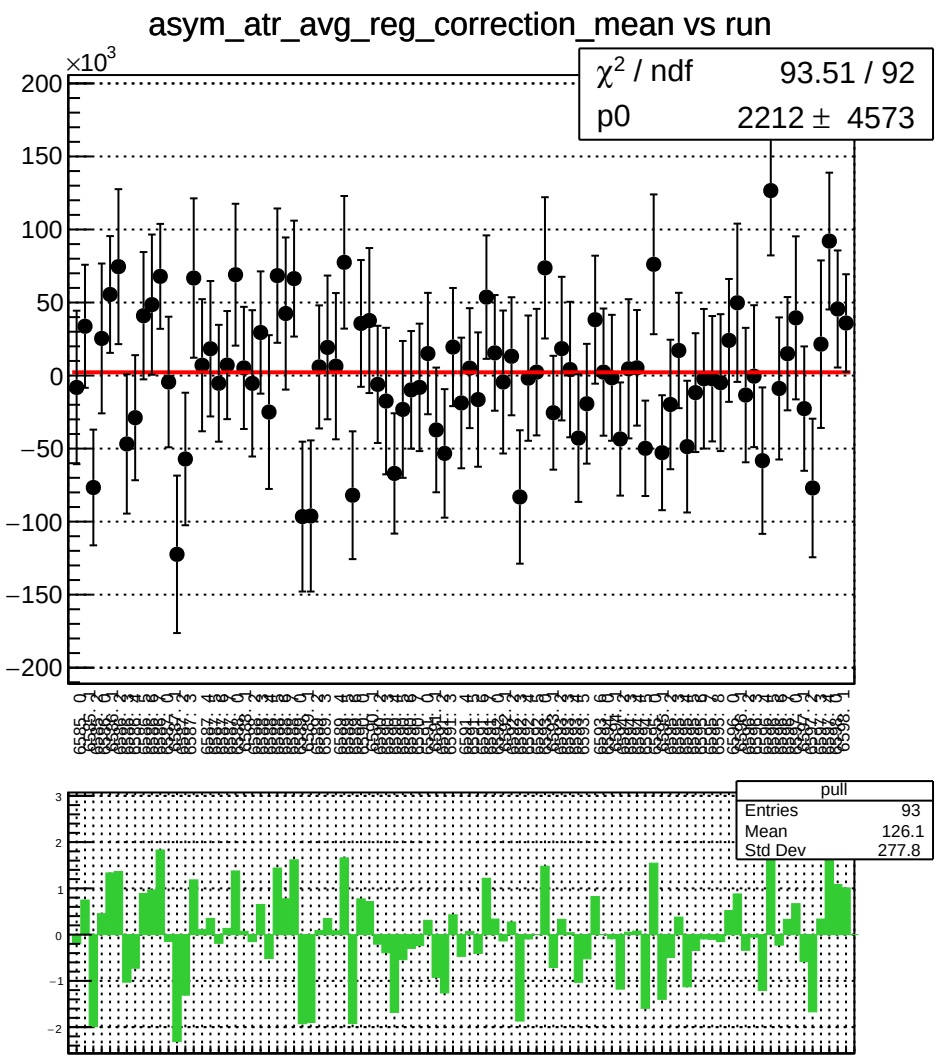

pull1D
Entries 93
Mean 0.04468
Std Dev 1.086

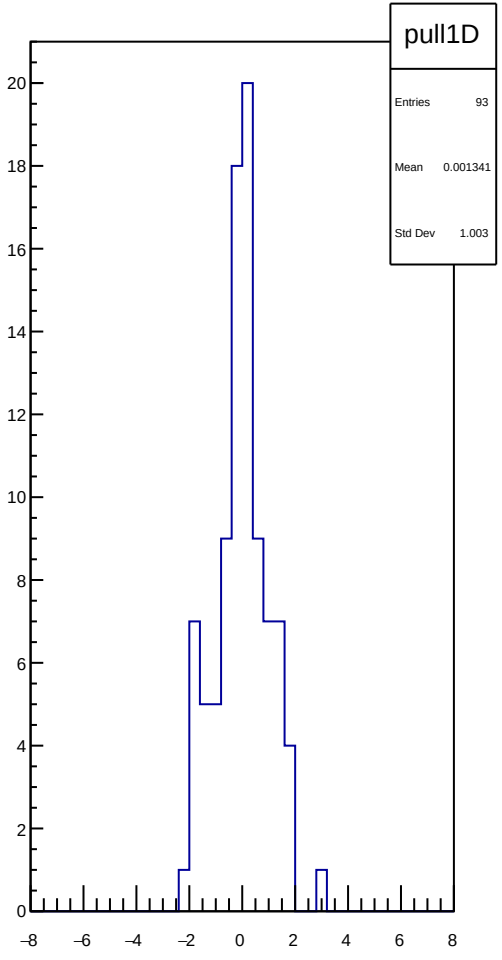

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.736e+05 / 92
p0 4.119e−11 ± 3.933e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

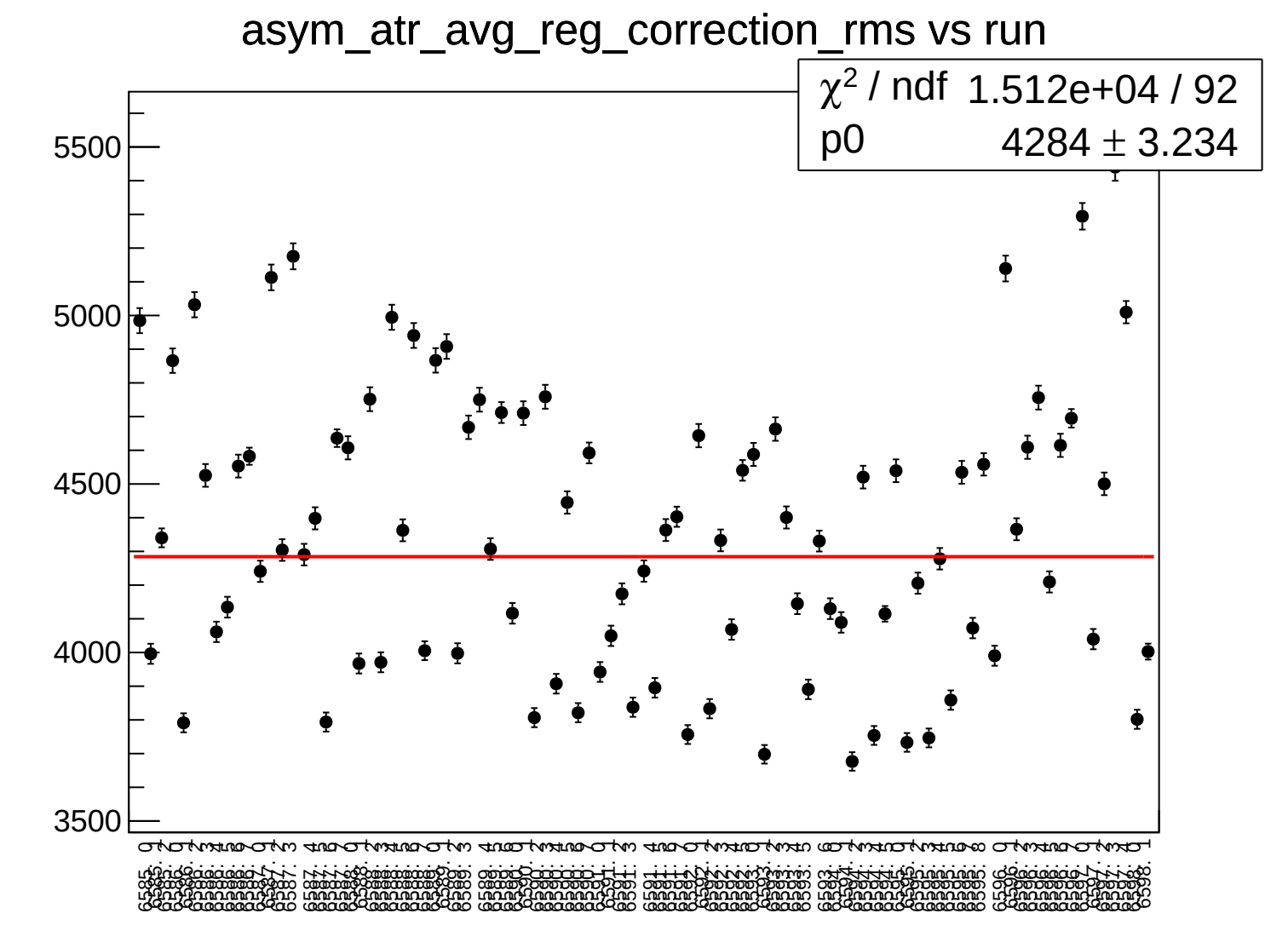

reg_asym_atr_avg_mean vs run
χ² / ndf 90.64 / 92
p0 −5149 ± 2026
pull
Entries 93
Mean −1109
Std Dev 0

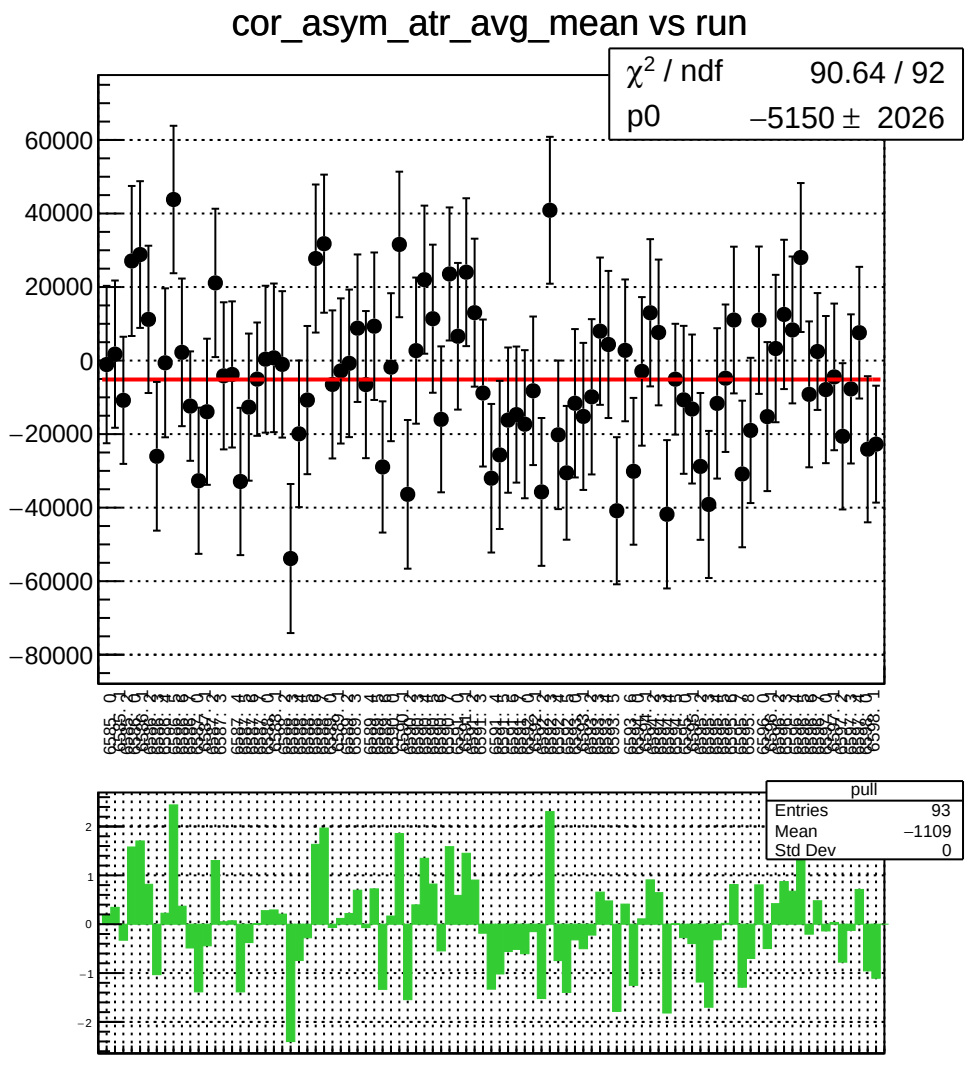

pull1D
Entries 93
Mean 0.003553
Std Dev 0.9872

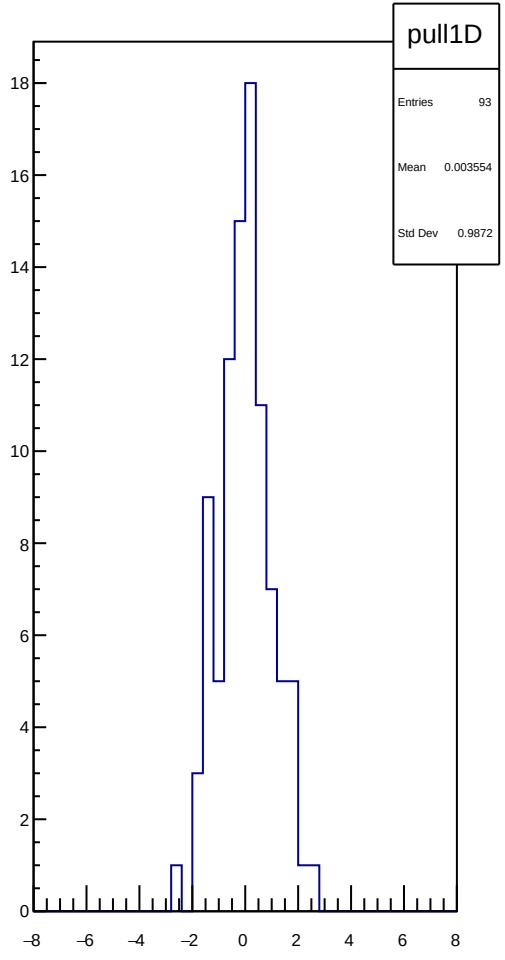

reg_asym_atr_avg_rms vs run
χ^2 / ndf 204.1 / 92
p0 1906 ± 1.433
2050
2000
1950
1900
1850

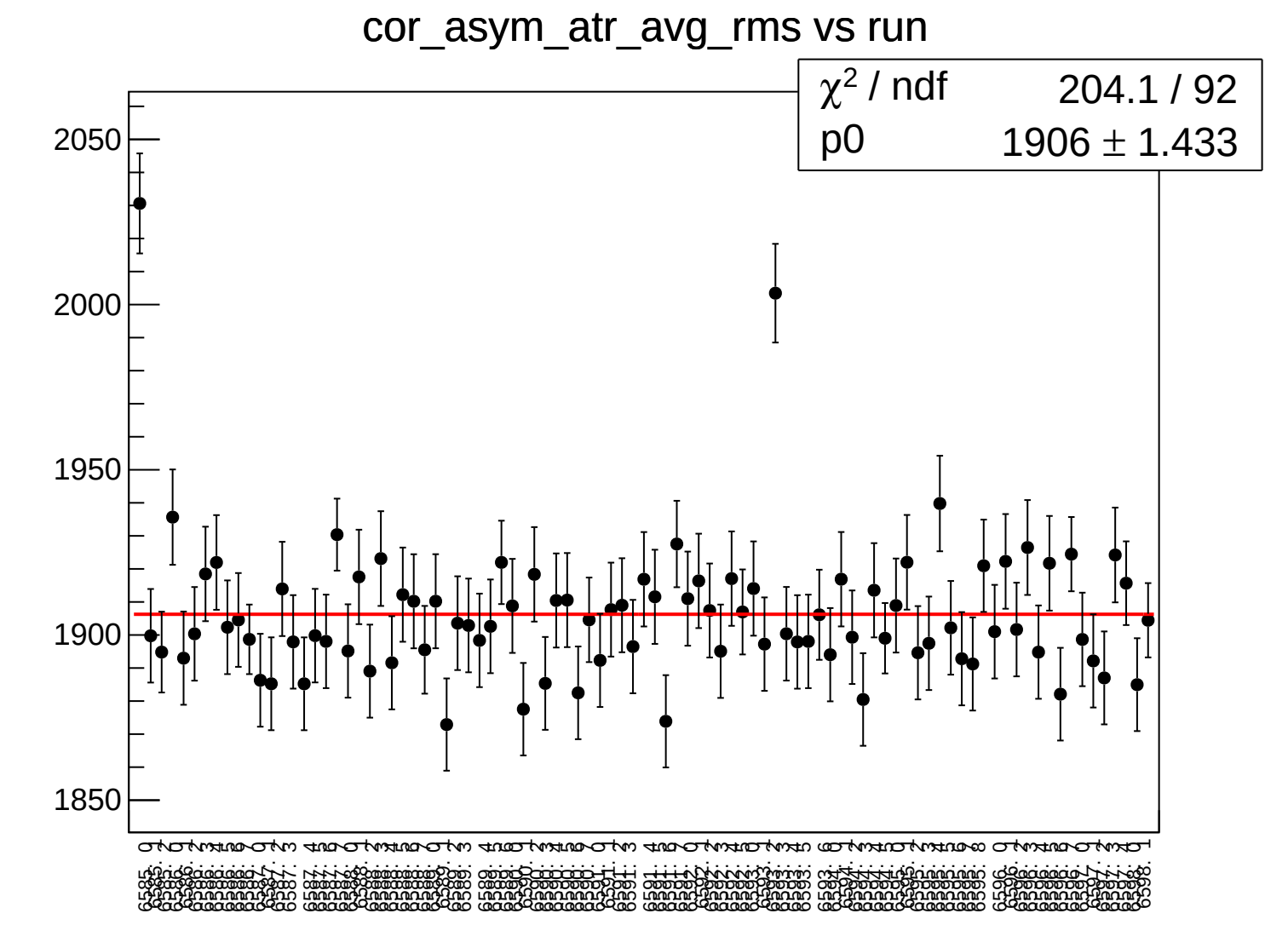

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 93.51 / 92
p0 2212 ± 4573
pull
Entries 93
Mean 126.1
Std Dev 277.8

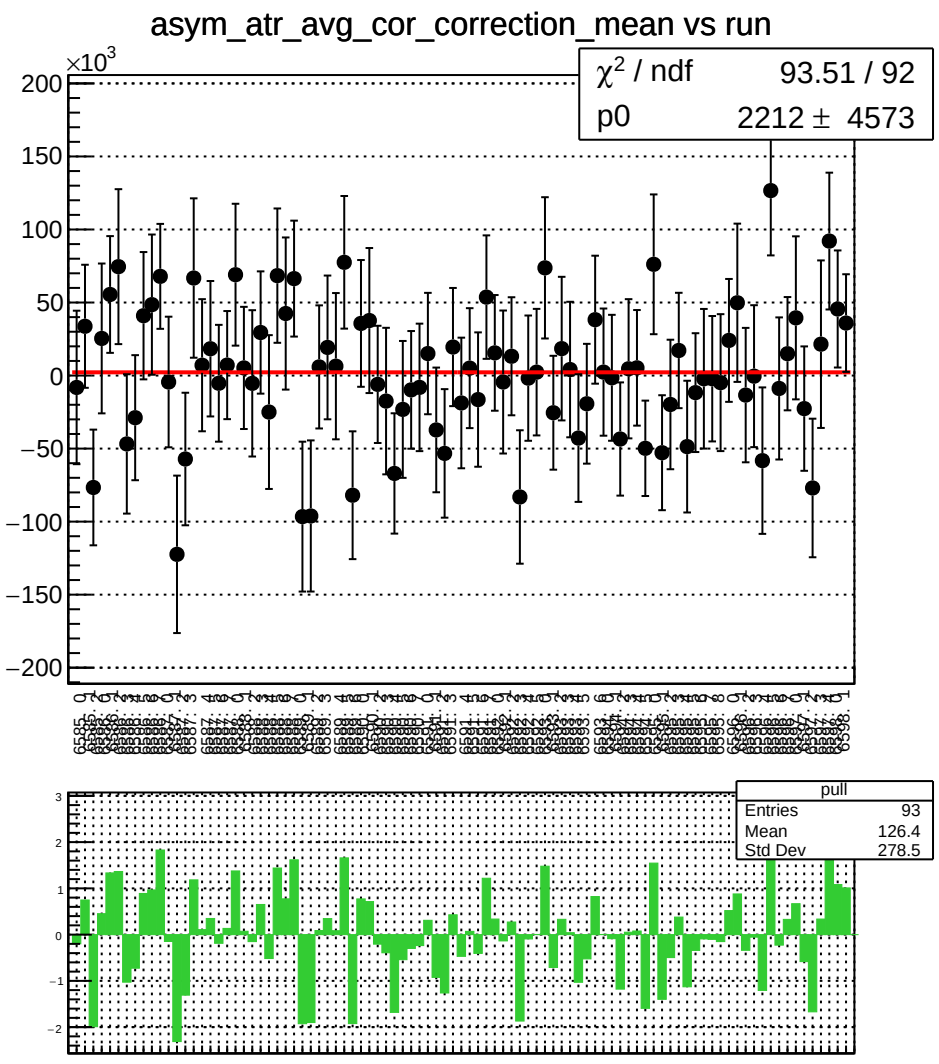

pull1D
Entries 93
Mean 0.001341
Std Dev 1.003

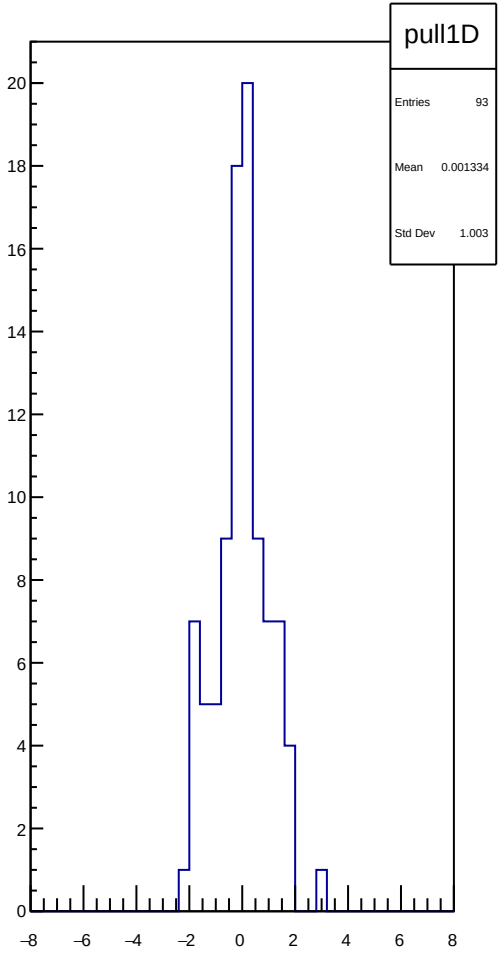

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 1.512e+04 / 92
p0 4284 ± 3.234
5500
5000
4500
4000
3500

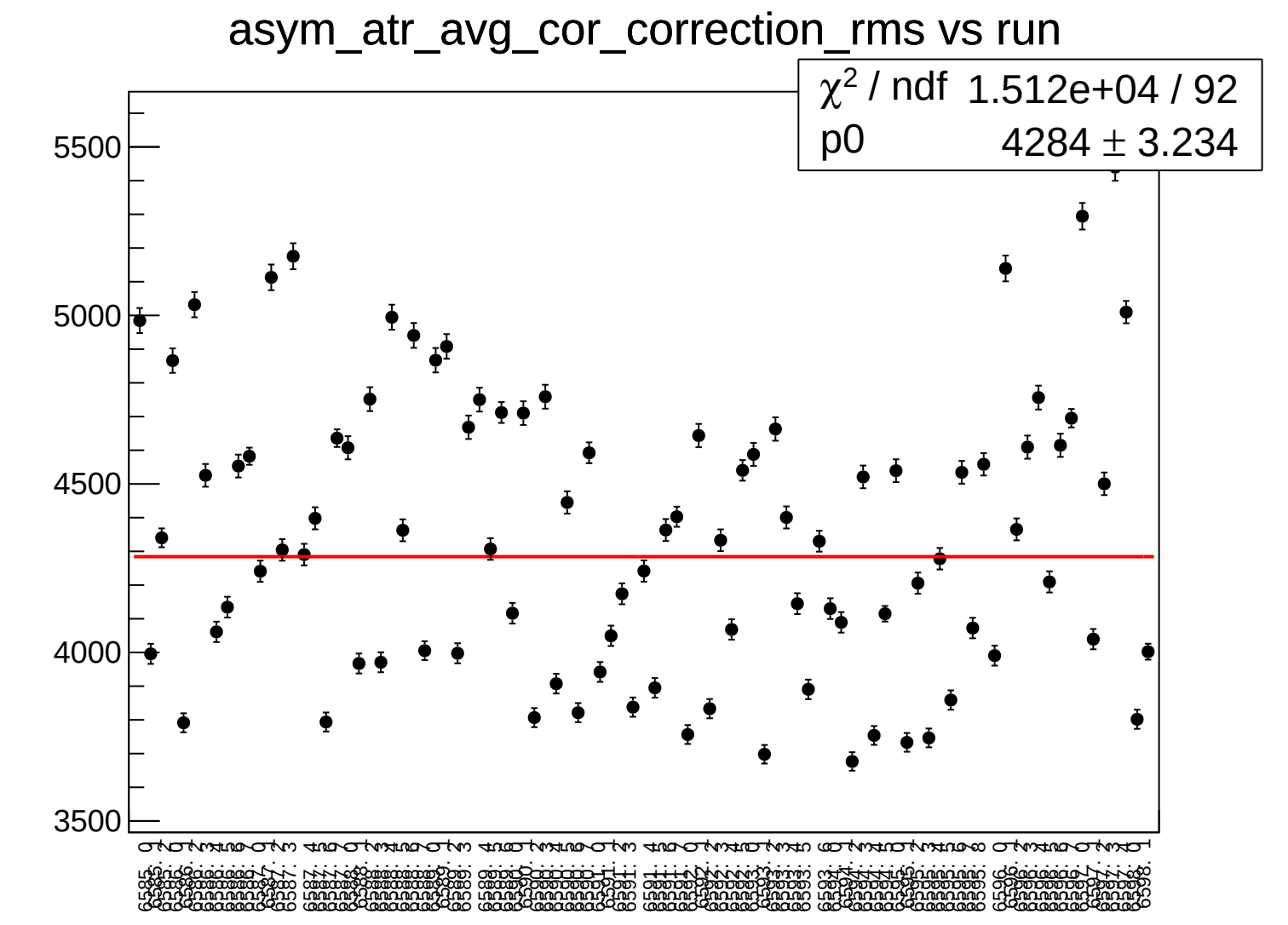

cor_asym_atr_avg_mean vs run
χ² / ndf 90.64 / 92
p0 −5150 ± 2026
pull
Entries 93
Mean −1109
Std Dev 0

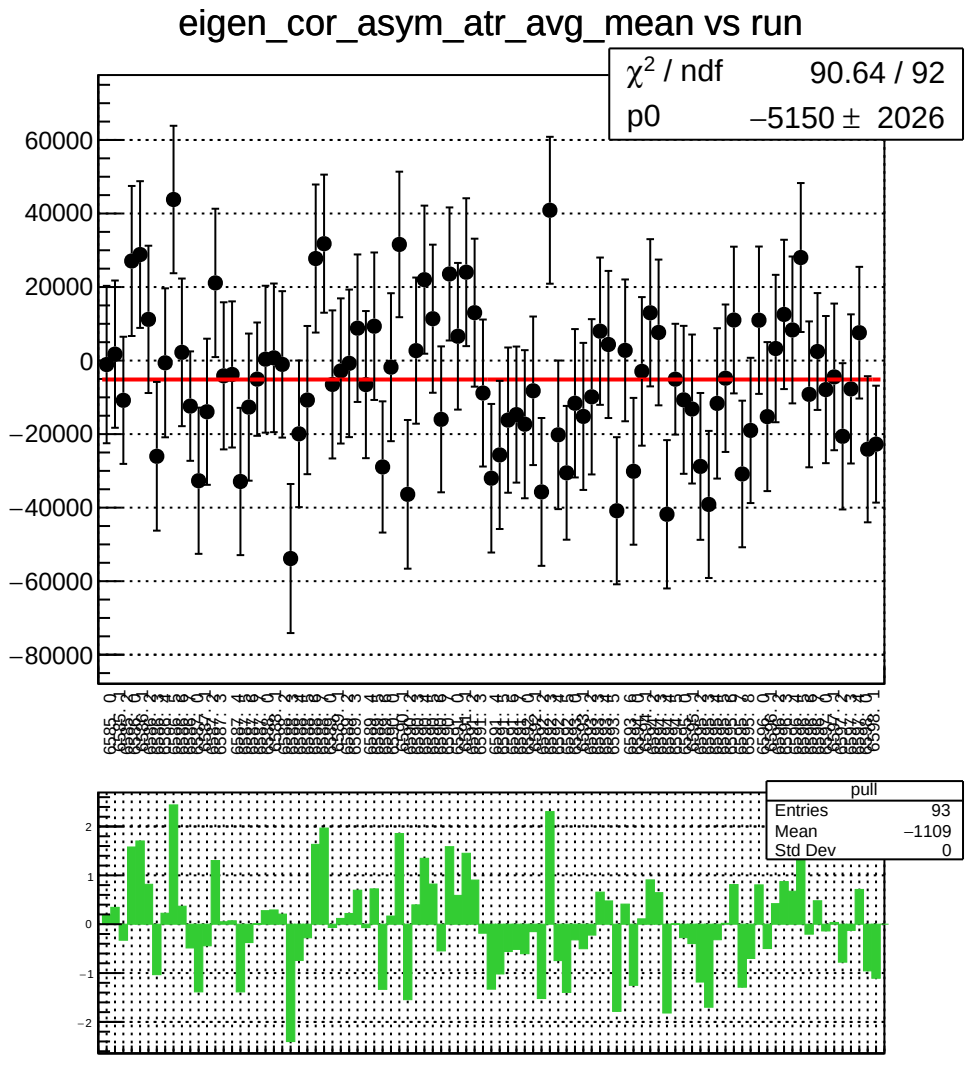

pull1D
Entries 93
Mean 0.003554
Std Dev 0.9872

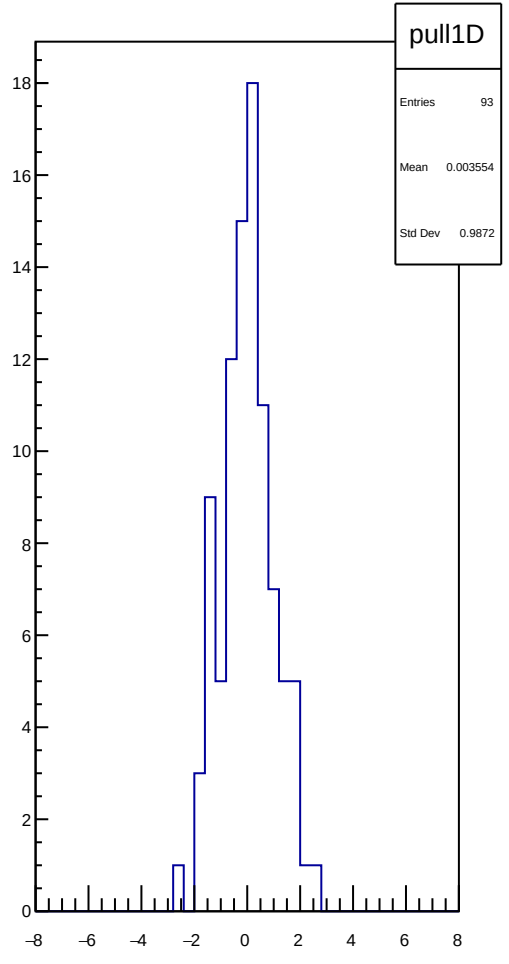

cor_asym_atr_avg_rms vs run
χ^2 / ndf 204.1 / 92
p0 1906 ± 1.433
2050
2000
1950
1900
1850

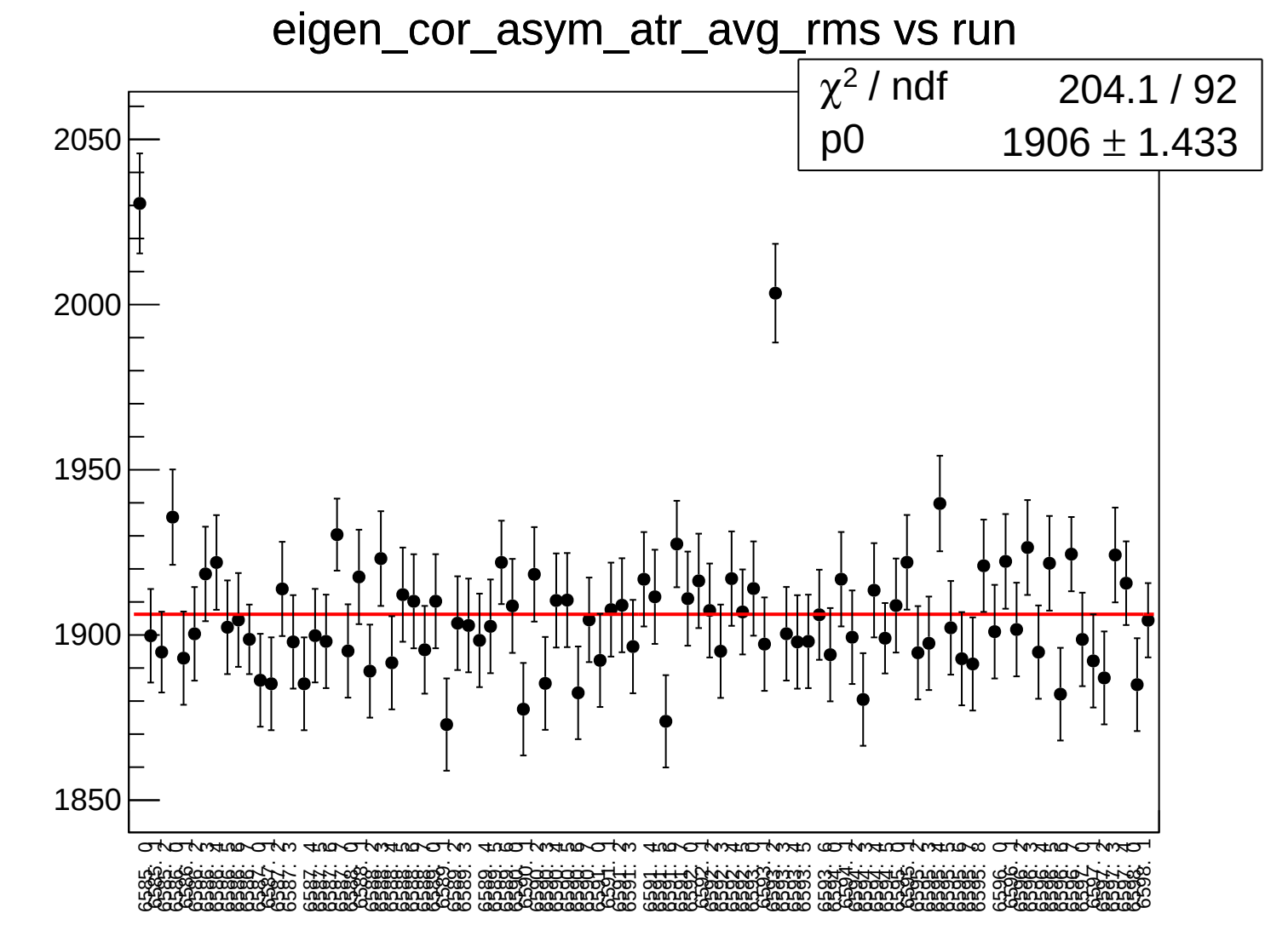

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 93.51 / 92
p0 2212 ± 4573
pull
Entries 93
Mean 126.4
Std Dev 278.5

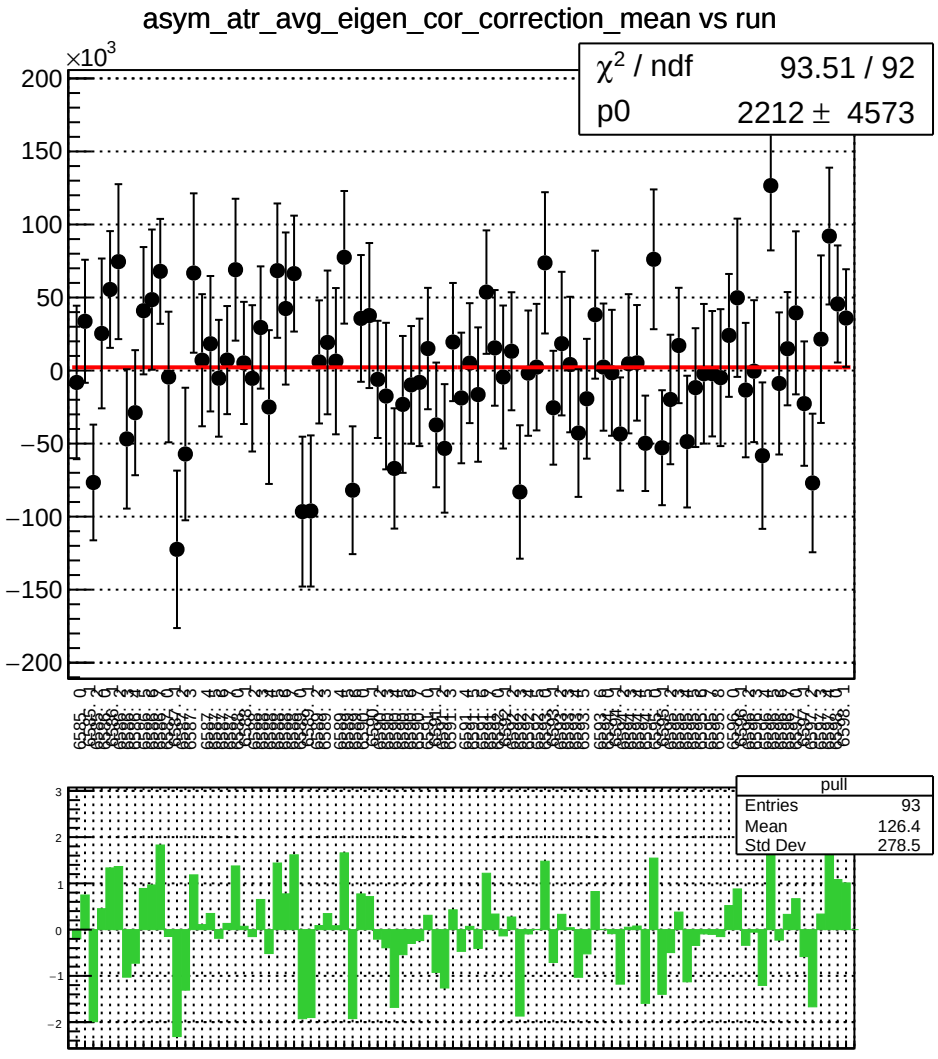

pull1D
Entries 93
Mean 0.001334
Std Dev 1.003

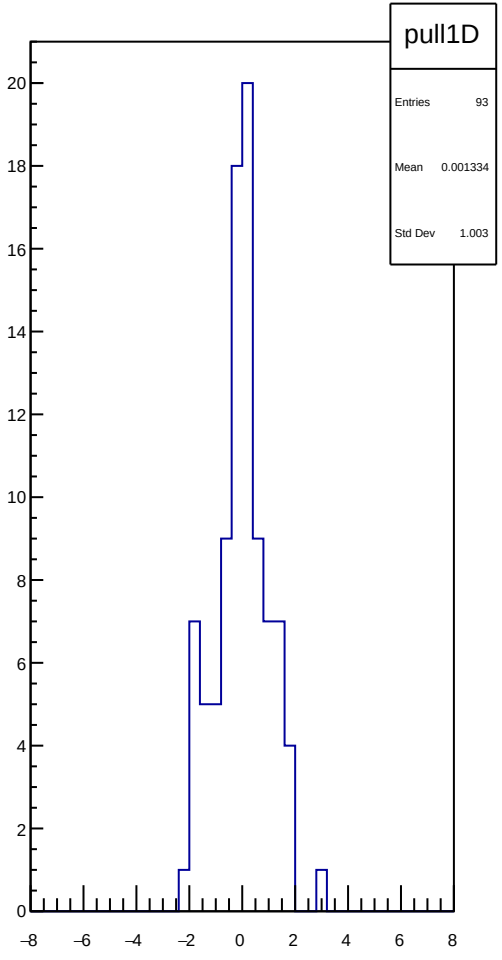

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.512e+04 / 92
p0 4284 ± 3.234
5500
5000
4500
4000
3500

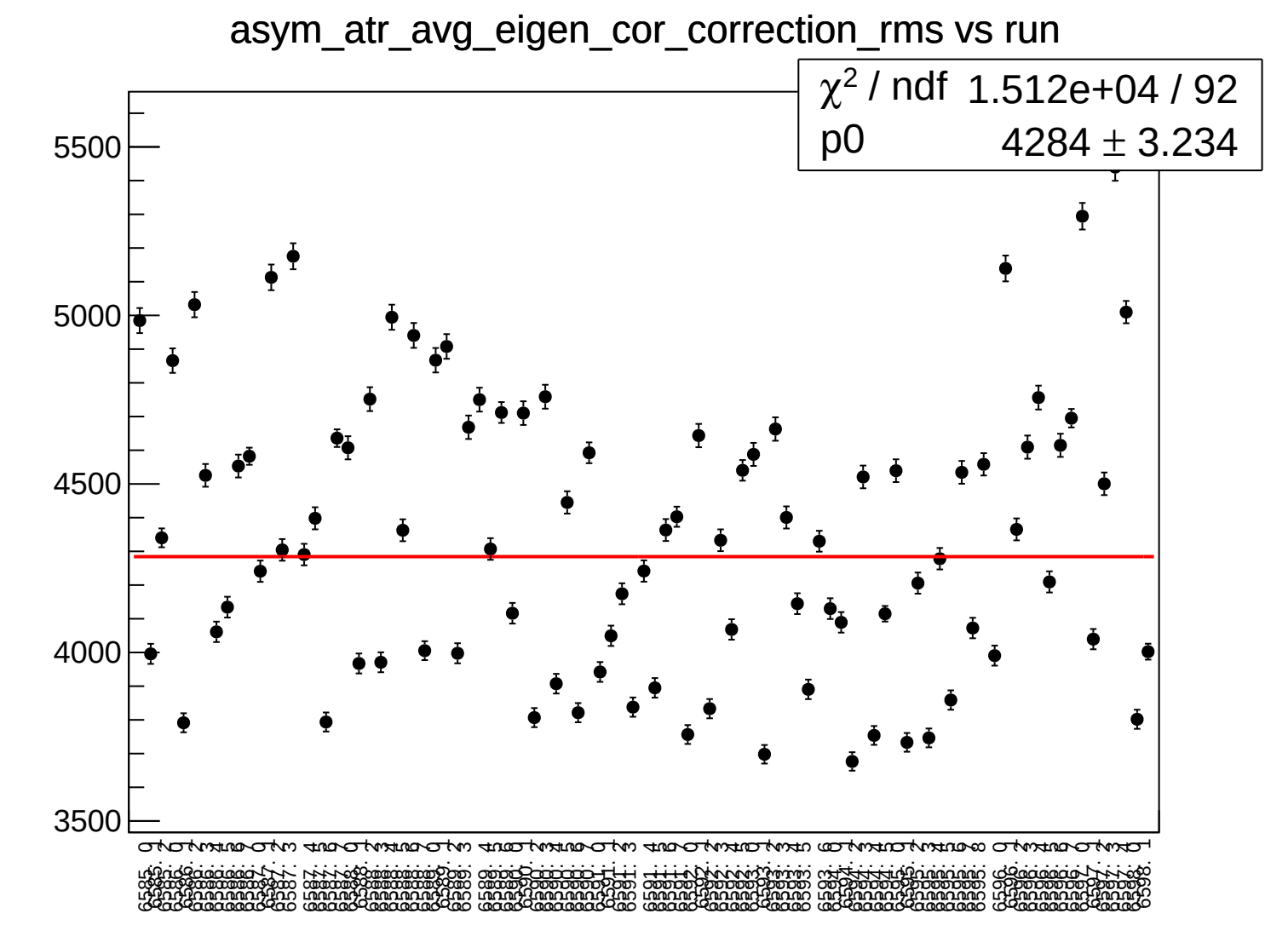

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 90.64 / 92
p0 −5150 ± 2026
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −1109
Std Dev 0
2
1
0
−1
−2

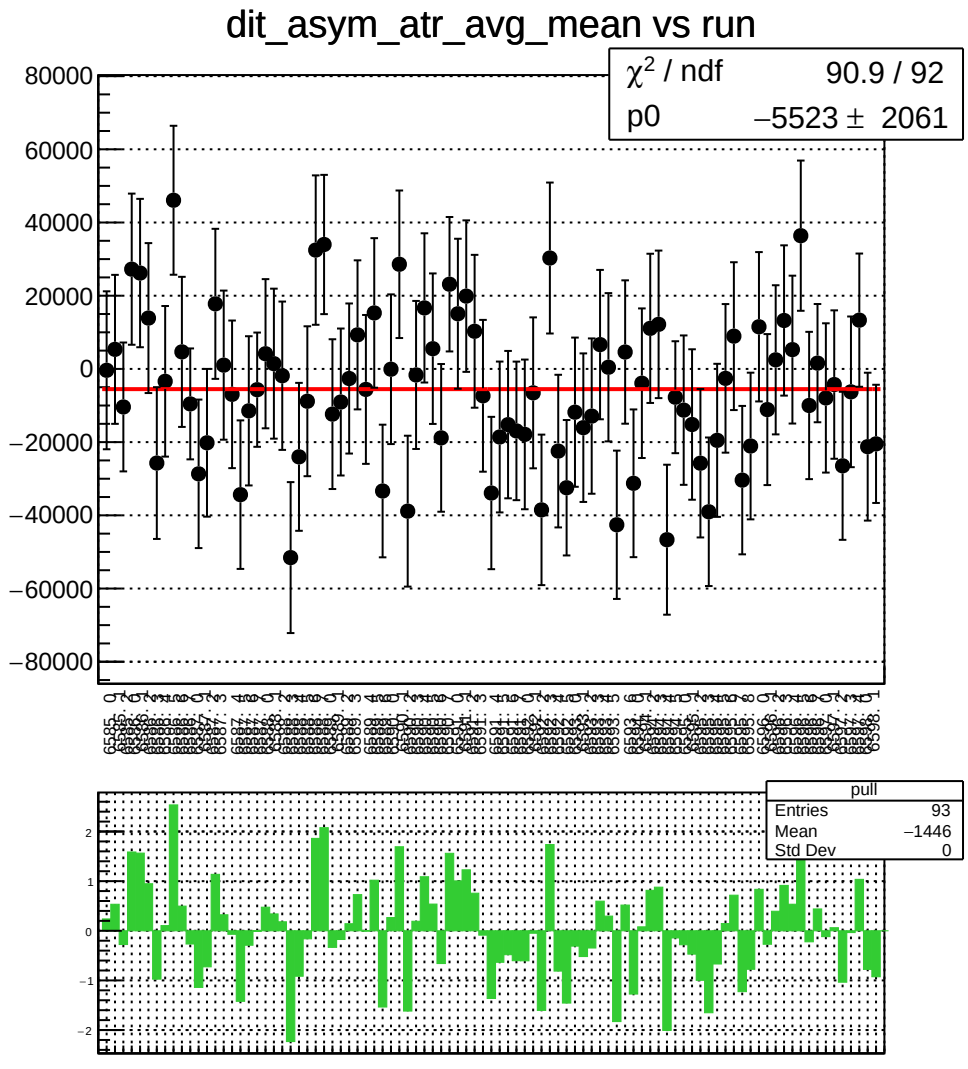

pull1D
Entries 93
Mean 0.003554
Std Dev 0.9872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

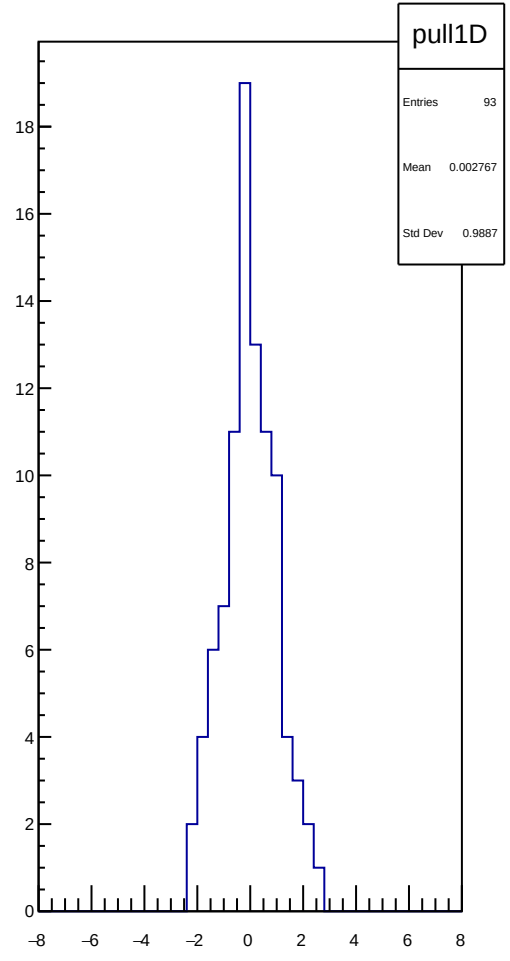

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 204.1 / 92
p0 1906 ± 1.433
2050
2000
1950
1900
1850

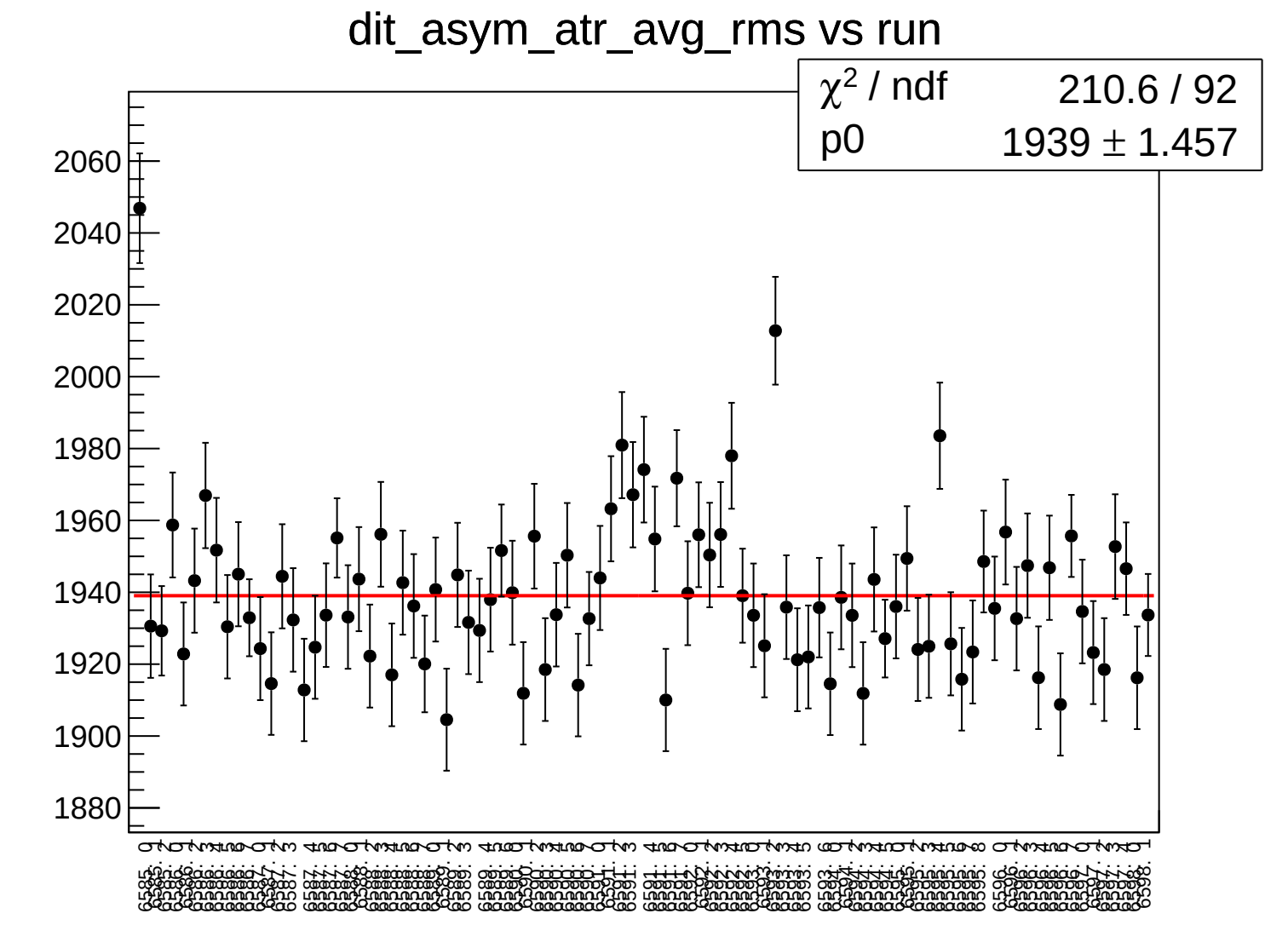

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 93.51 / 92
p0 2212 ± 4573
pull
Entries 93
Mean 126.4
Std Dev 278.5

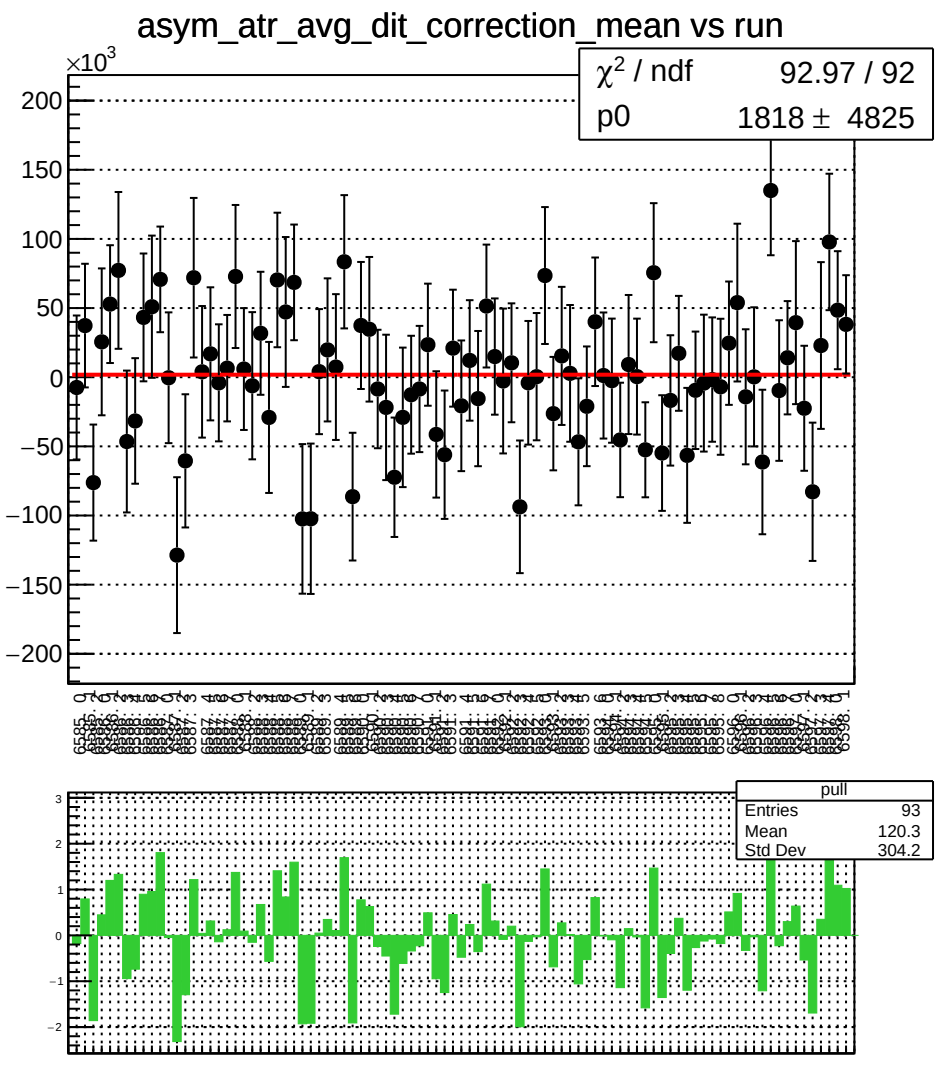

pull1D
Entries 93
Mean 0.001334
Std Dev 1.003

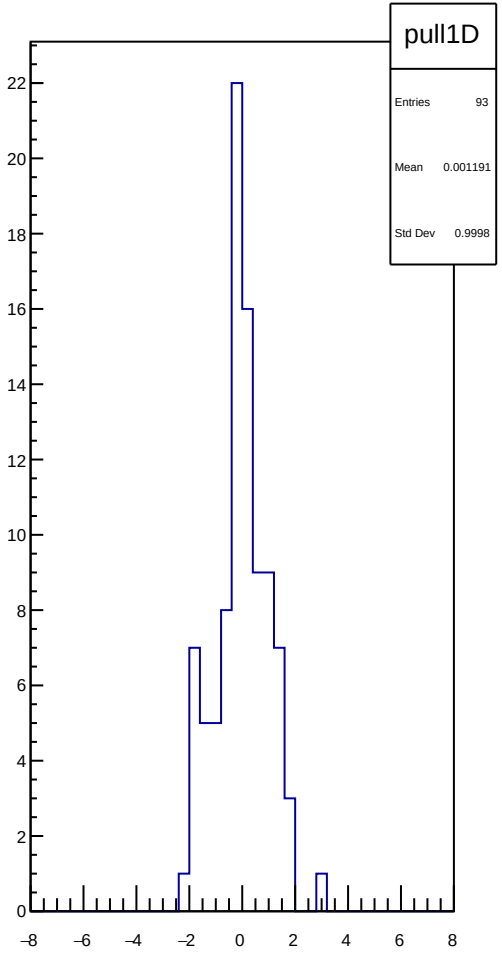

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.512e+04 / 92
p0 4284 ± 3.234
5500
5000
4500
4000
3500

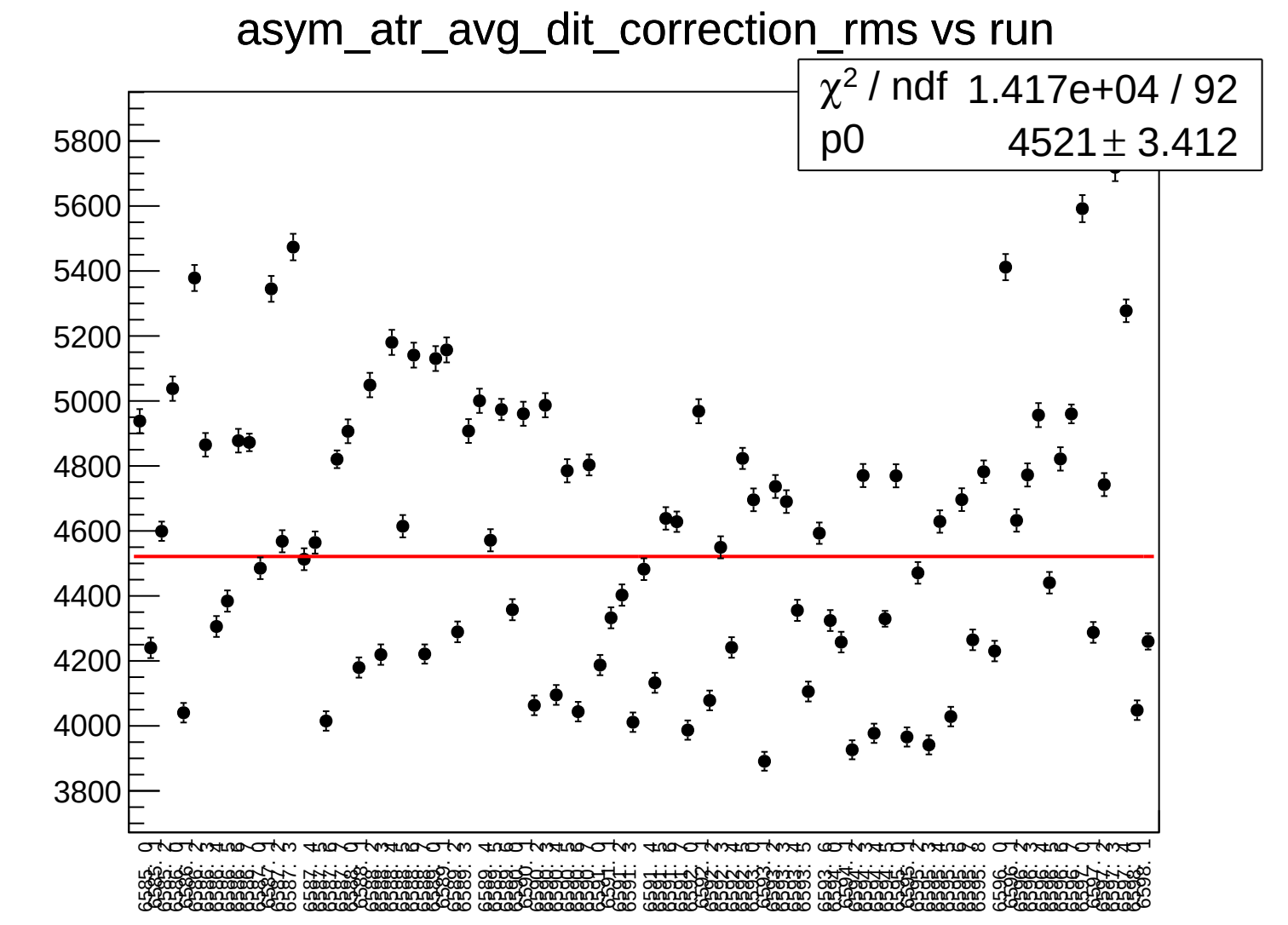

dit_asym_atr_avg_mean vs run
χ² / ndf 90.9 / 92
p0 −5523 ± 2061
pull
Entries 93
Mean −1446
Std Dev 0

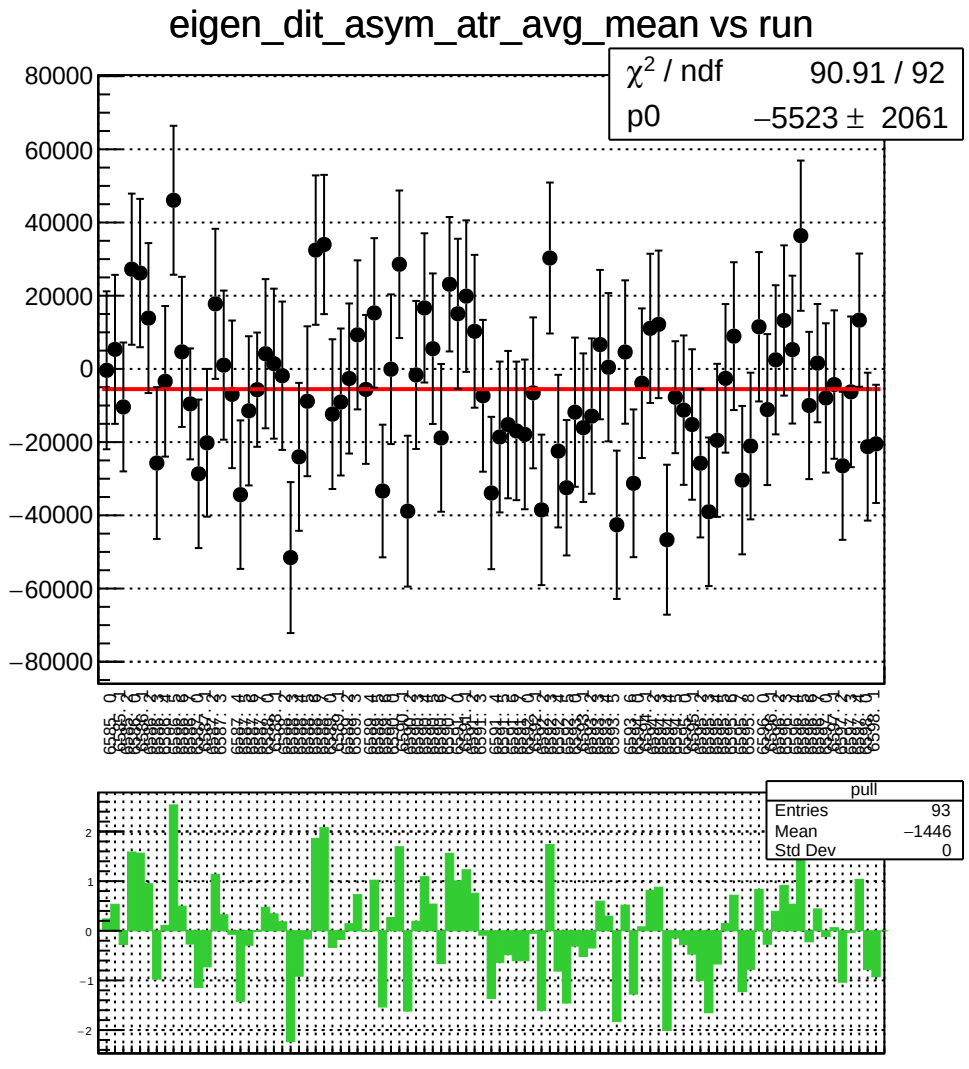

pull1D
Entries 93
Mean 0.002767
Std Dev 0.9887

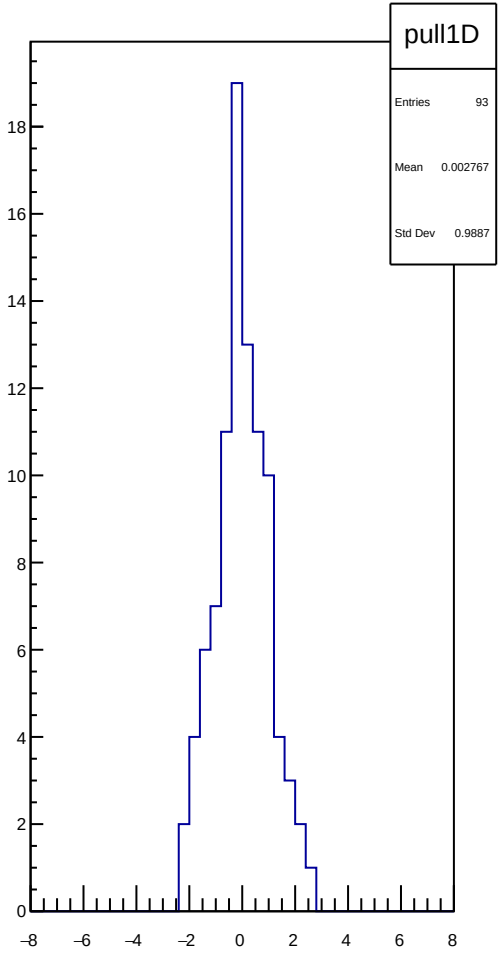

dit_asym_atr_avg_rms vs run
χ^2 / ndf 210.6 / 92
p0 1939 ± 1.457
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

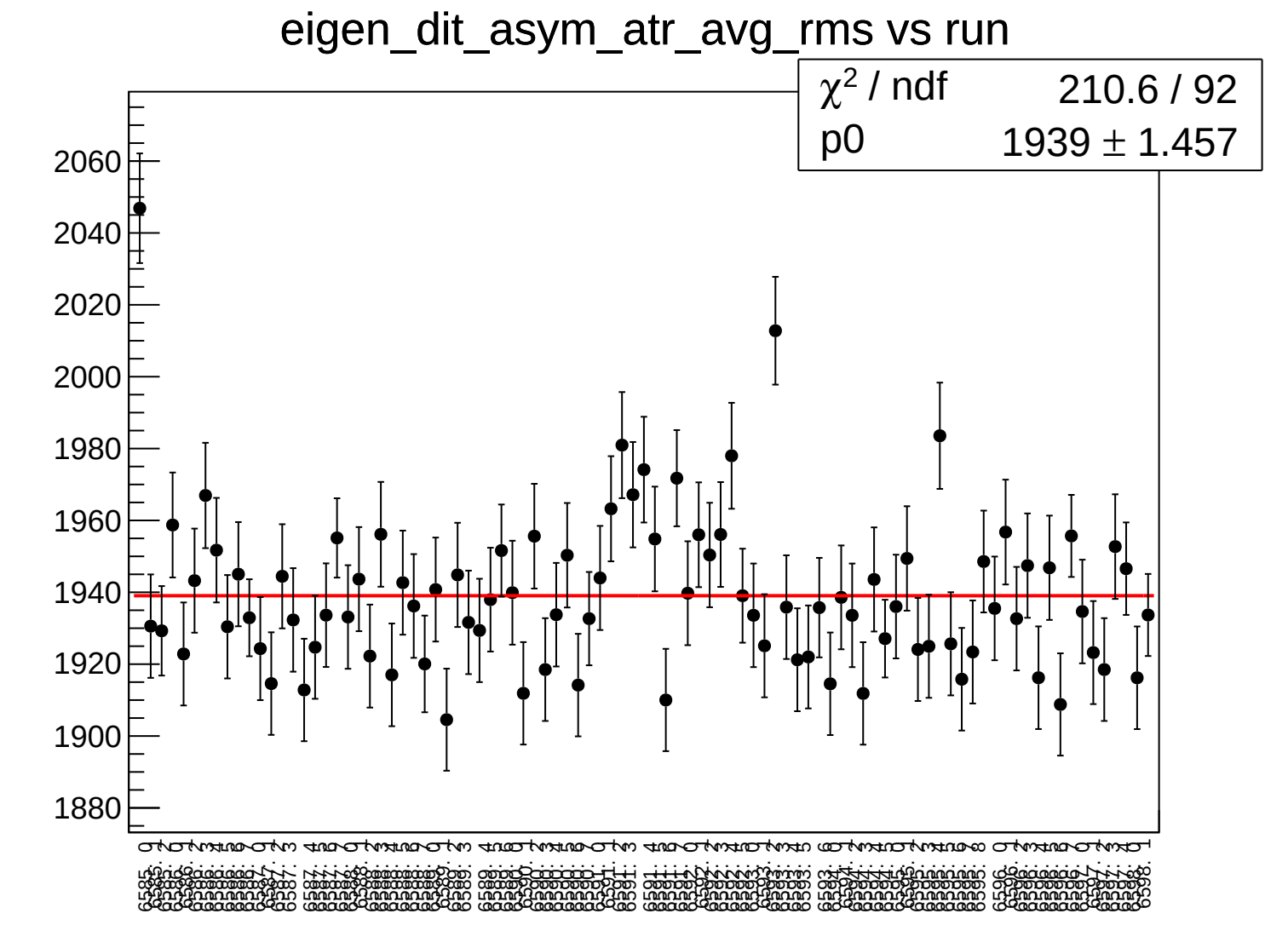

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 92.97 / 92
p0 1818 ± 4825
pull
Entries 93
Mean 120.3
Std Dev 304.2

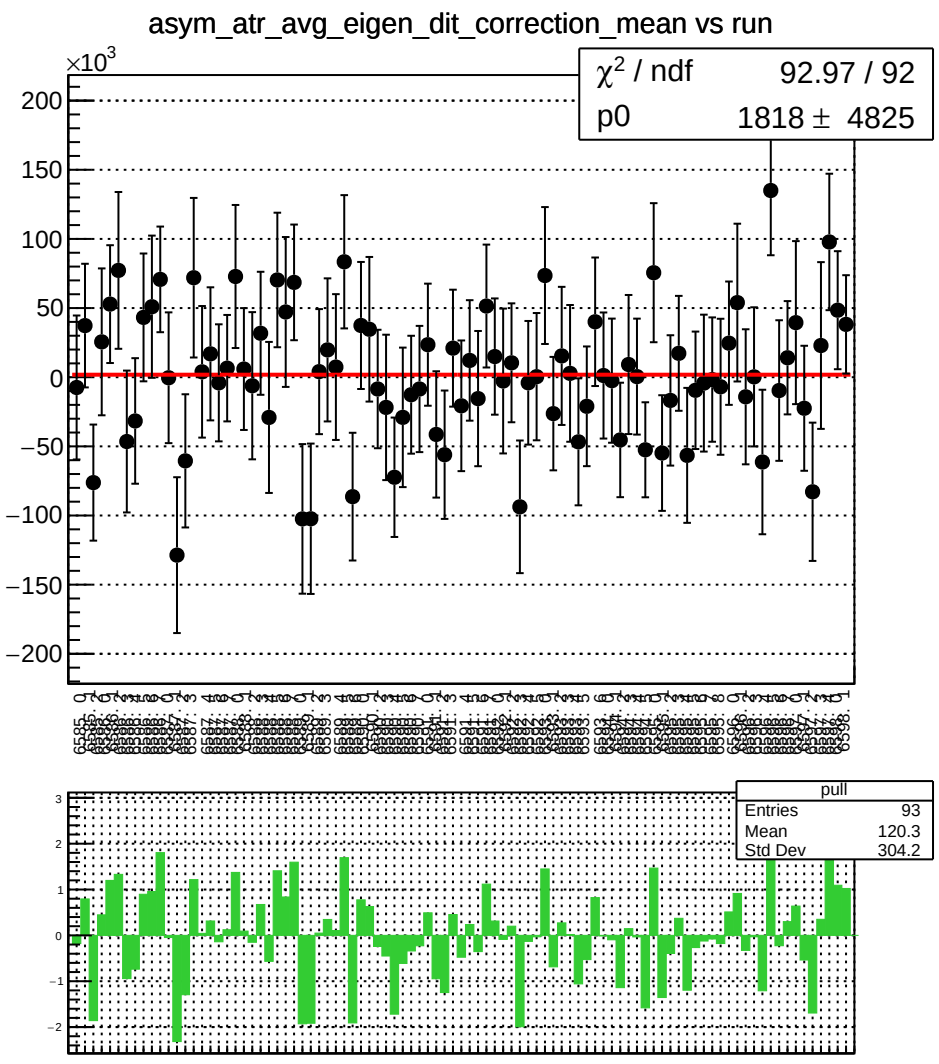

pull1D
Entries 93
Mean 0.001191
Std Dev 0.9998

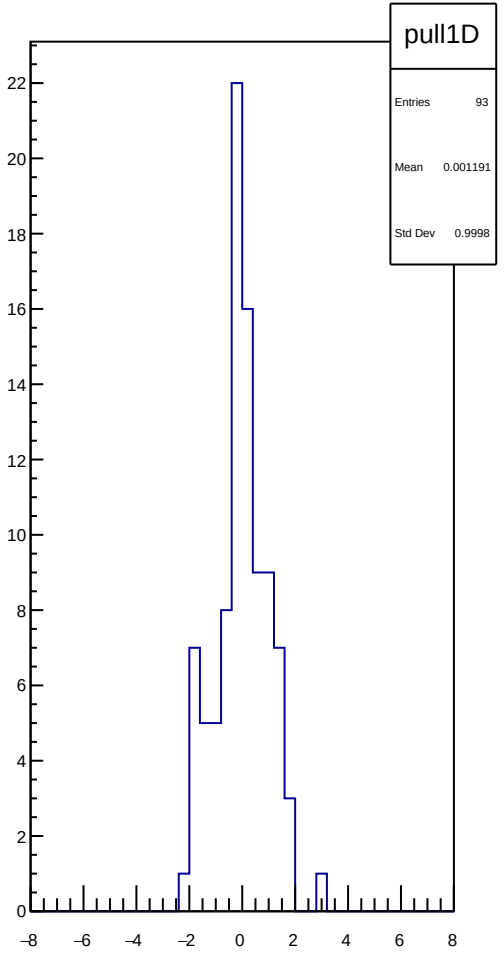

asym_atr_avg_dit_correction_rms vs run
χ^2 / ndf 1.417e+04 / 92
p0 4521 ± 3.412
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

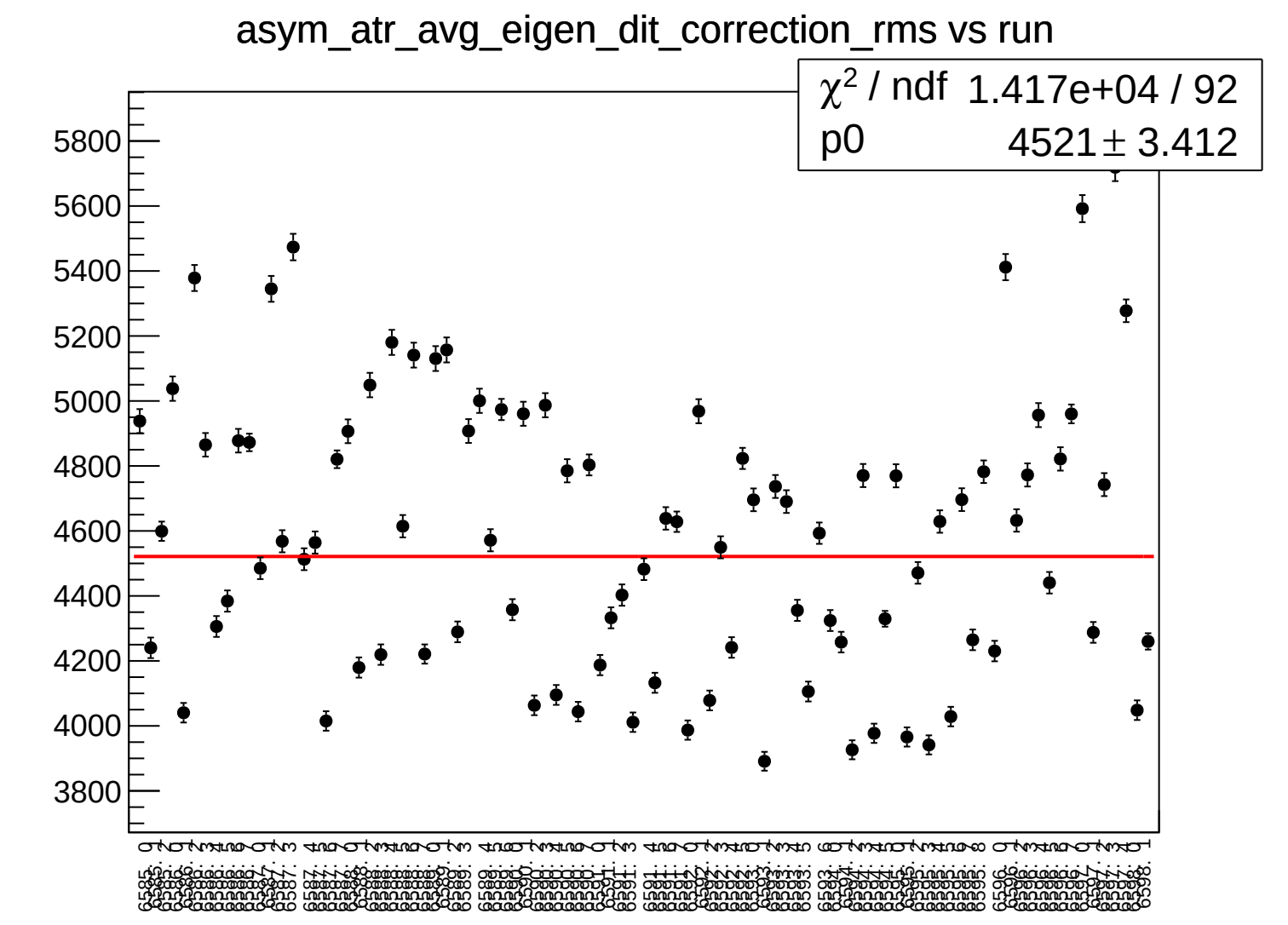

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 90.91 / 92
p0 −5523 ± 2061
pull
Entries 93
Mean −1446
Std Dev 0

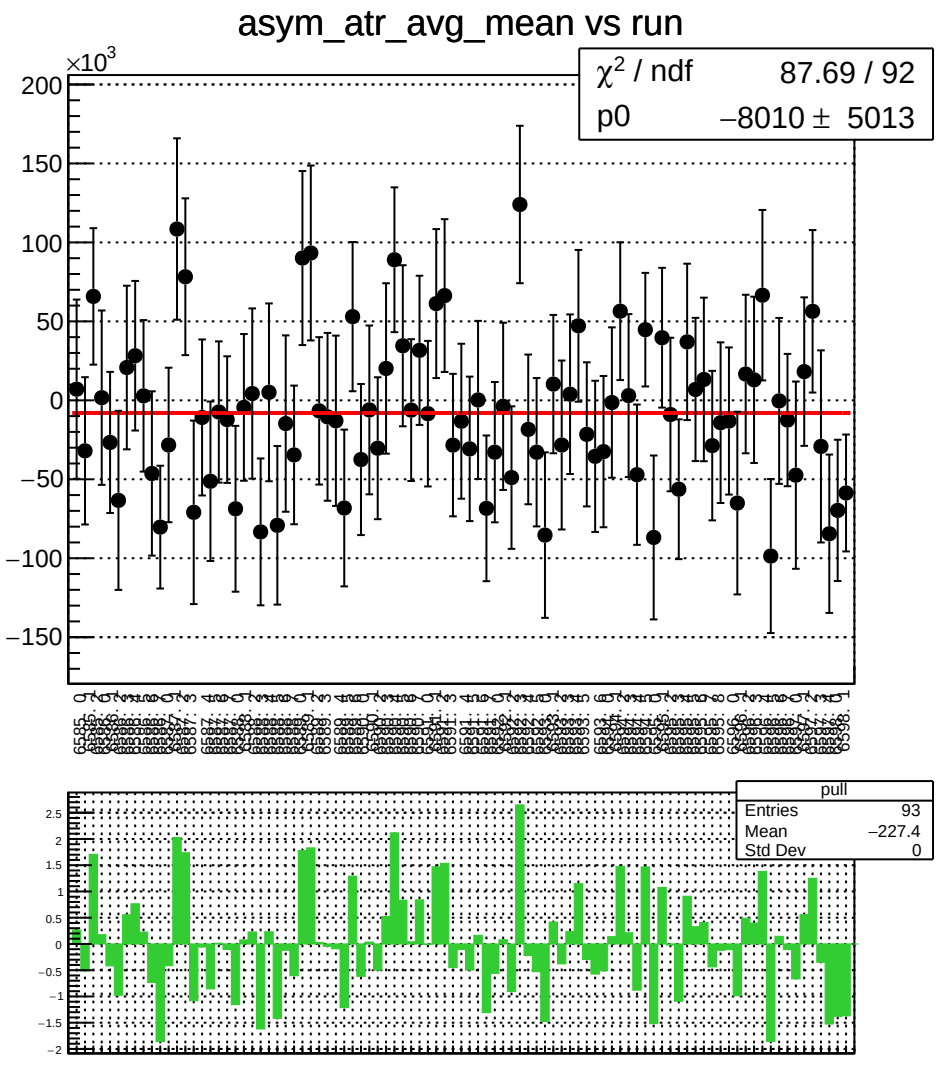

pull1D
Entries 93
Mean 0.002767
Std Dev 0.9887

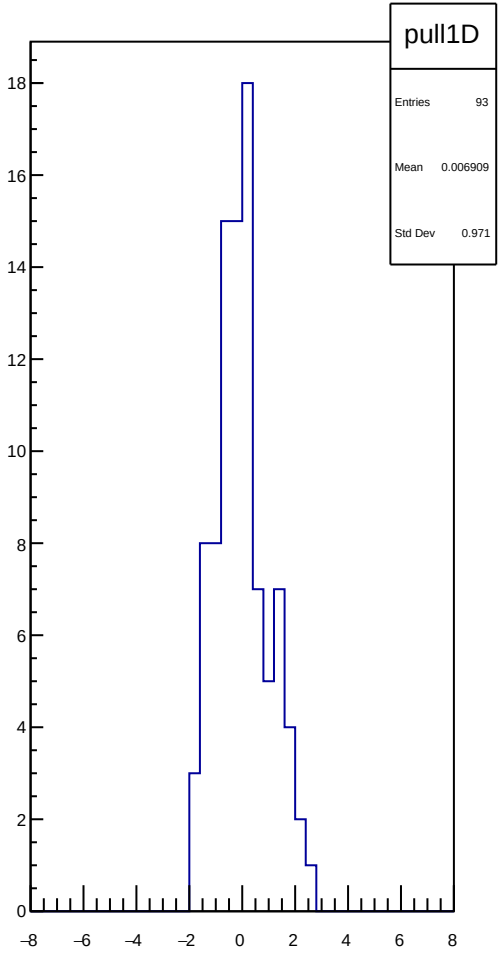

eigen_dit_asym_atr_avg_rms vs run
χ^2 / ndf 210.6 / 92
p0 1939 ± 1.457
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

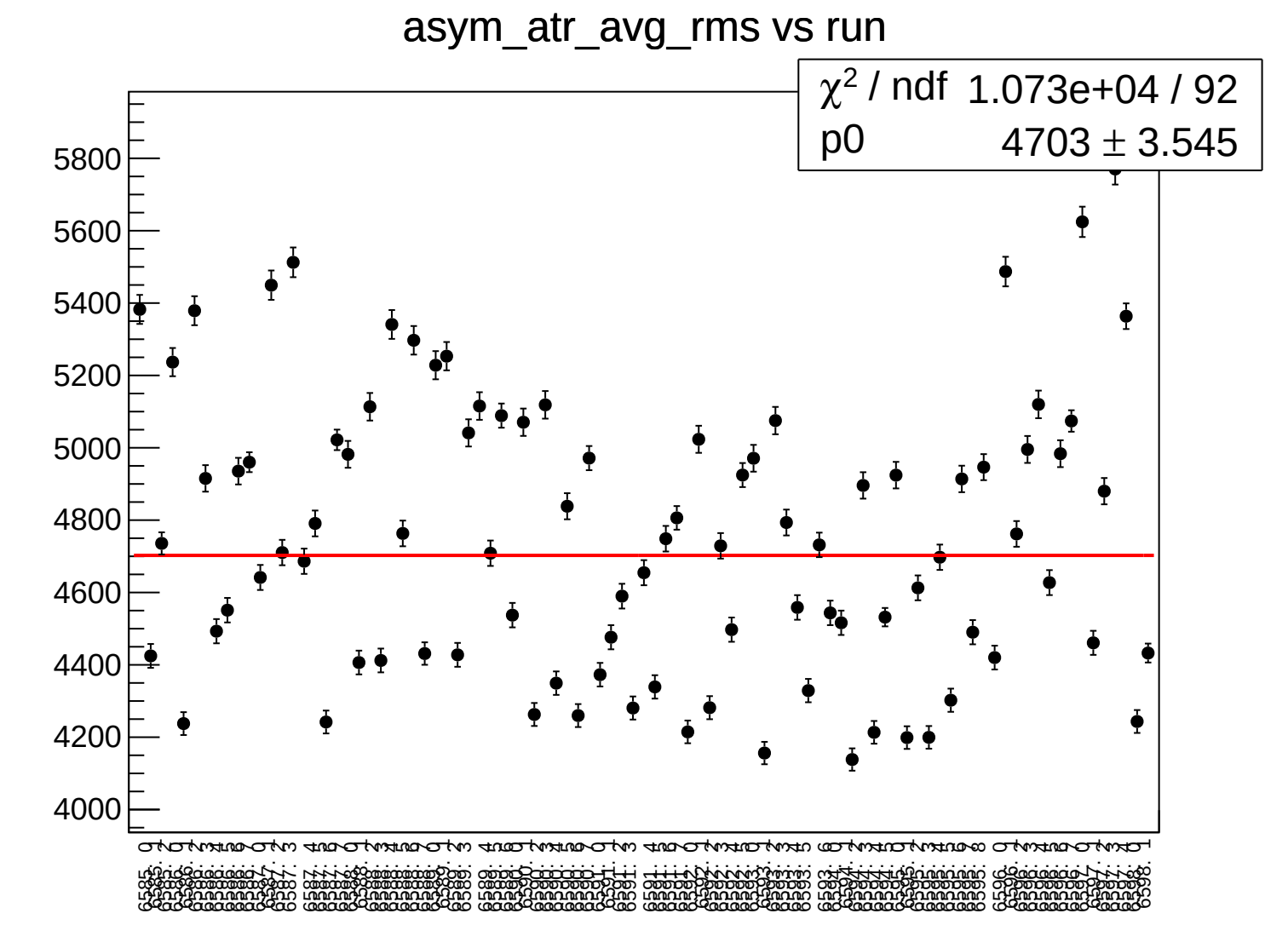

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.97 / 92
p0 1818 ± 4825
pull
Entries 93
Mean 120.3
Std Dev 304.2

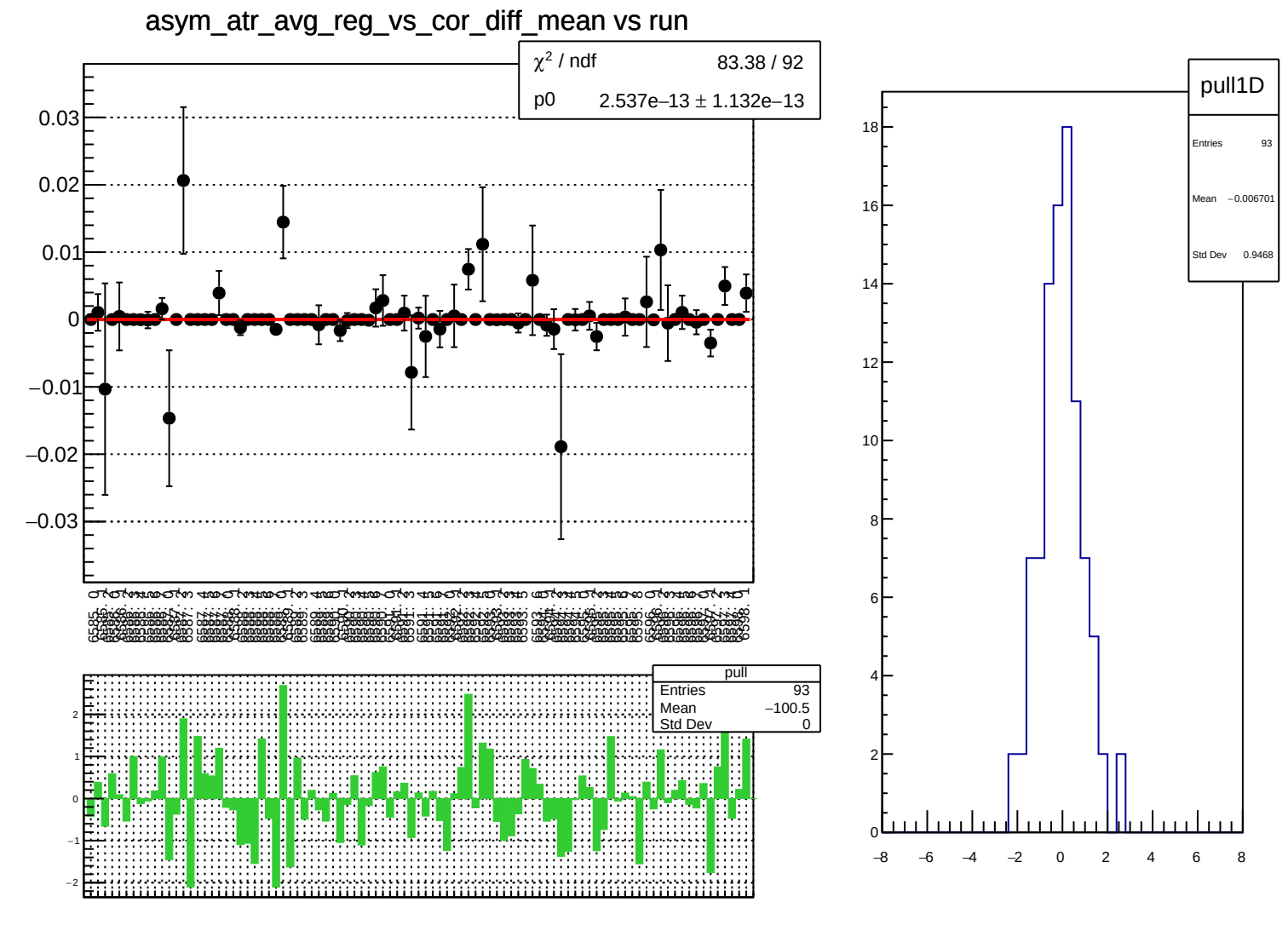

pull1D
Entries 93
Mean 0.001191
Std Dev 0.9998

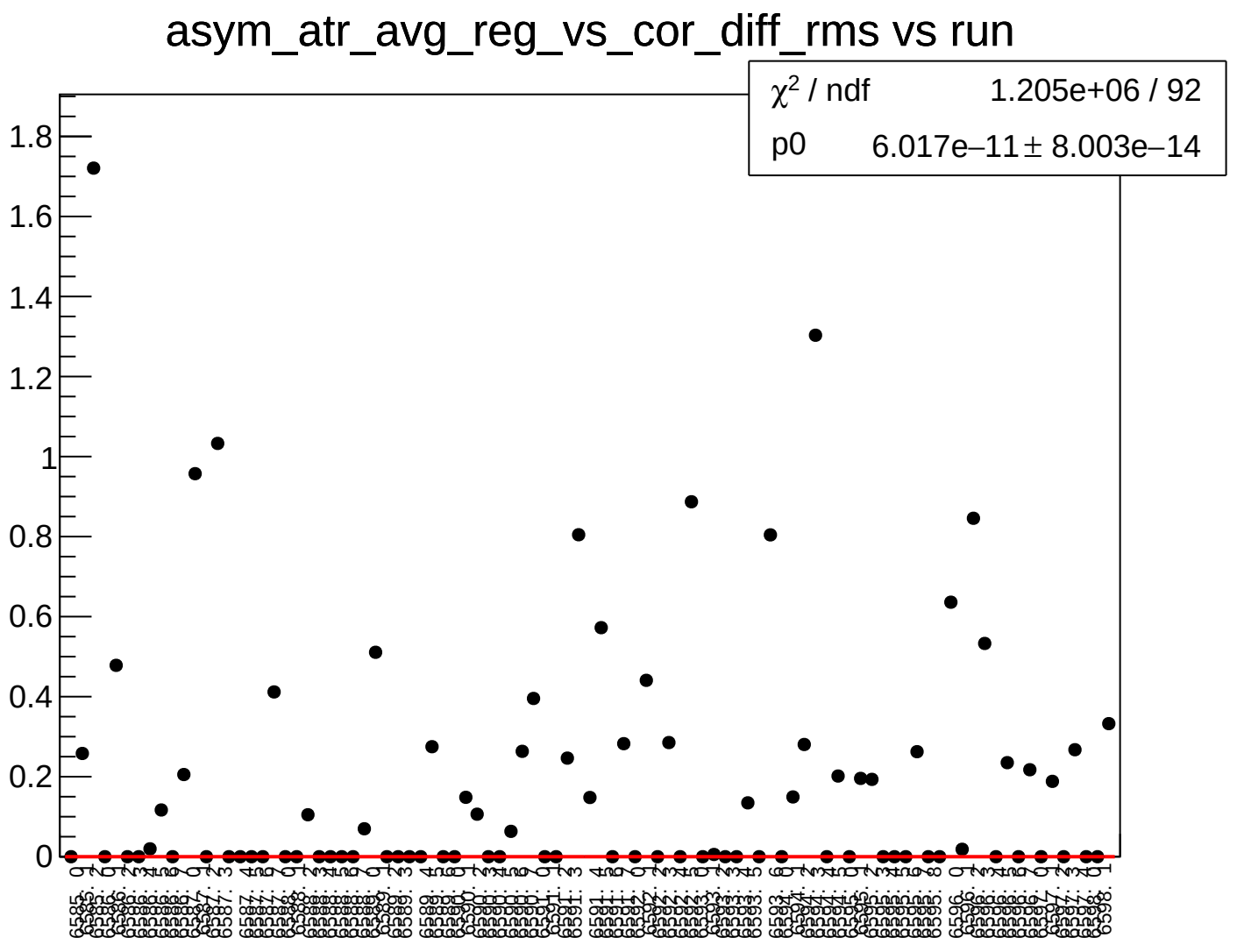

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.417e+04 / 92
p0 4521 ± 3.412
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

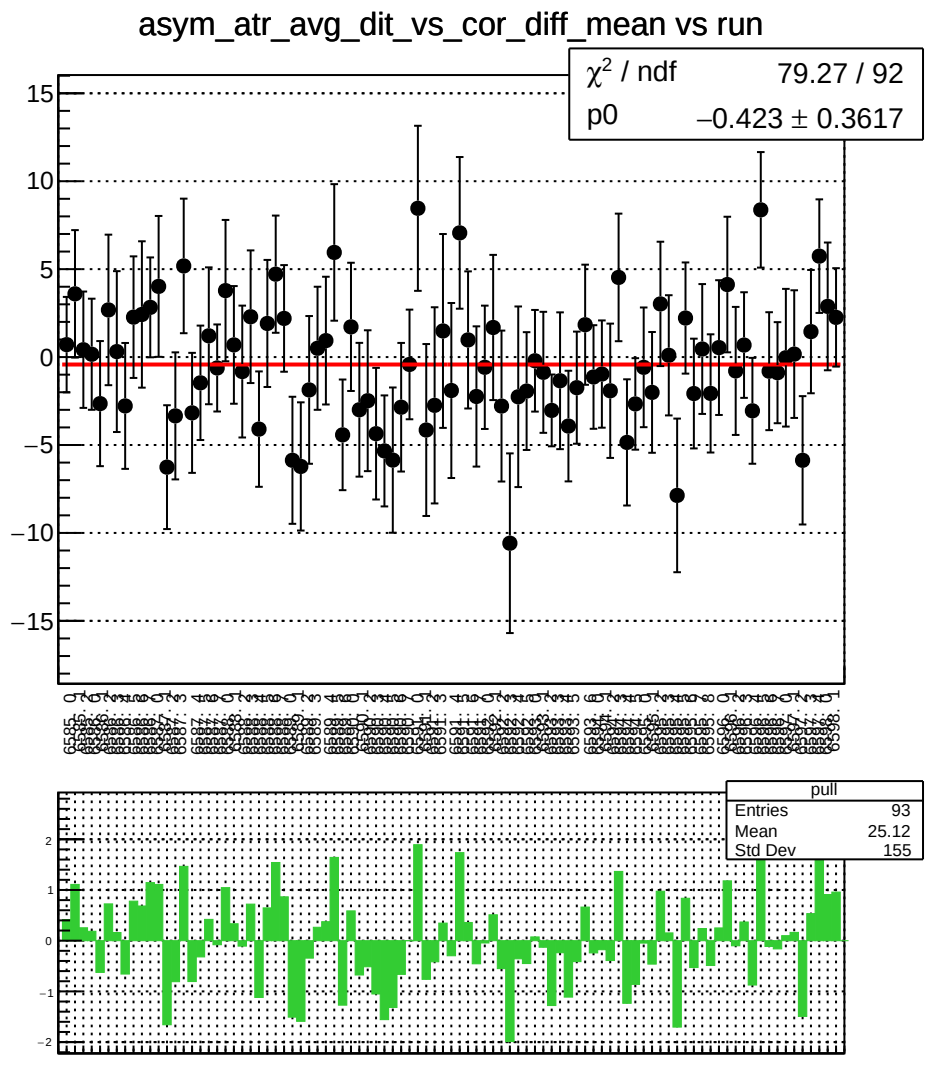

asym_atr_avg_mean vs run
×10^3
χ² / ndf 87.69 / 92
p0 −8010 ± 5013
pull
Entries 93
Mean −227.4
Std Dev 0

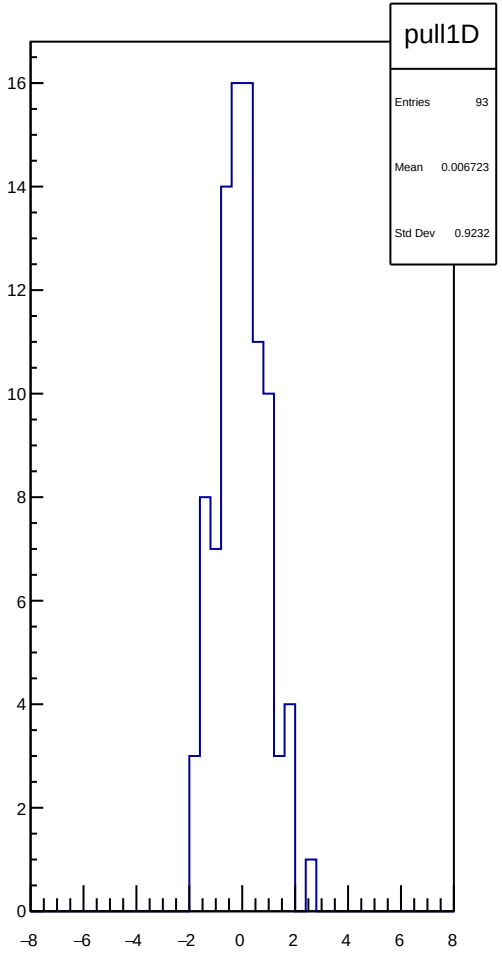

pull1D
Entries 93
Mean 0.006909
Std Dev 0.971

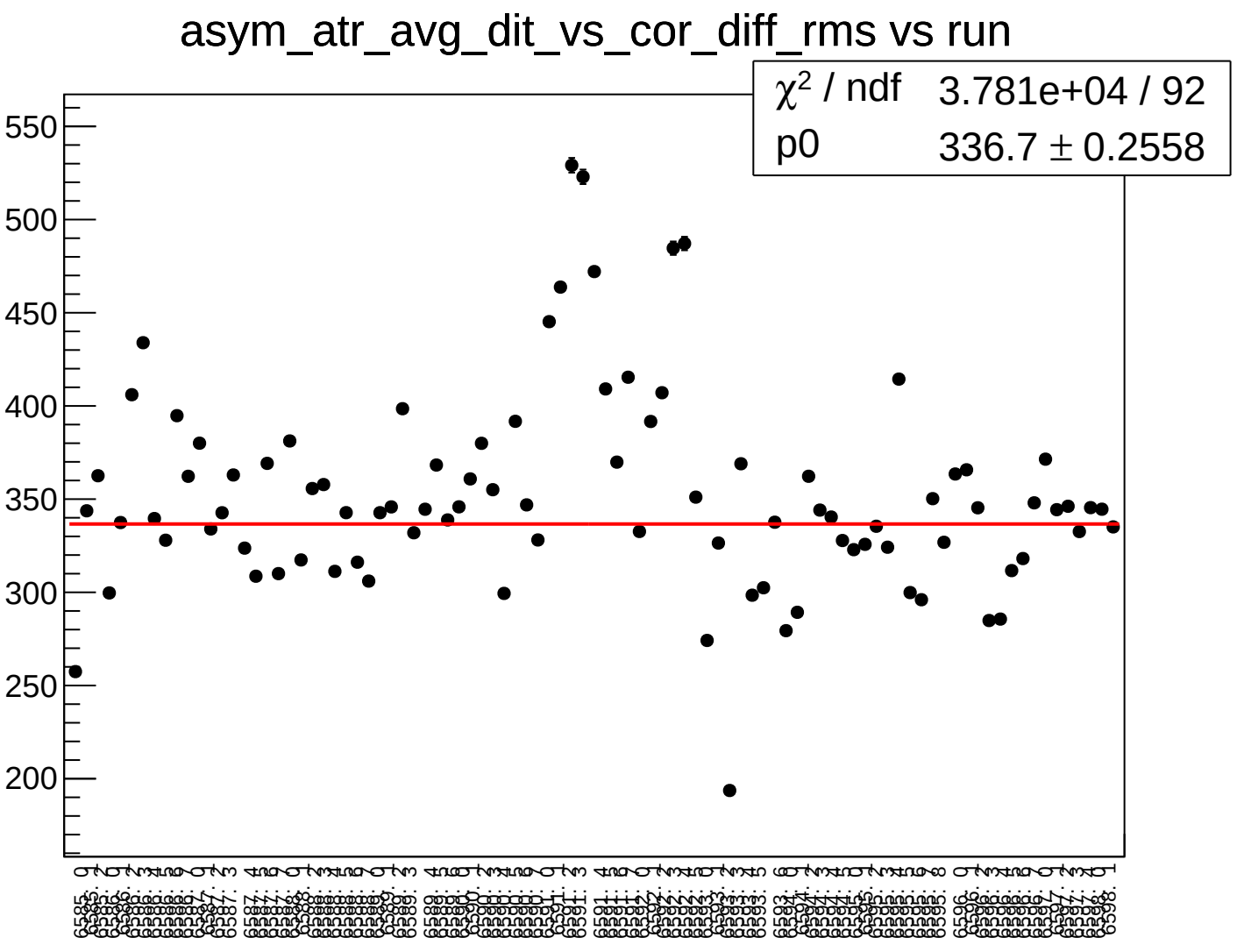

asym_atr_avg_rms vs run
χ^2 / ndf 1.073e+04 / 92
p0 4703 ± 3.545
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

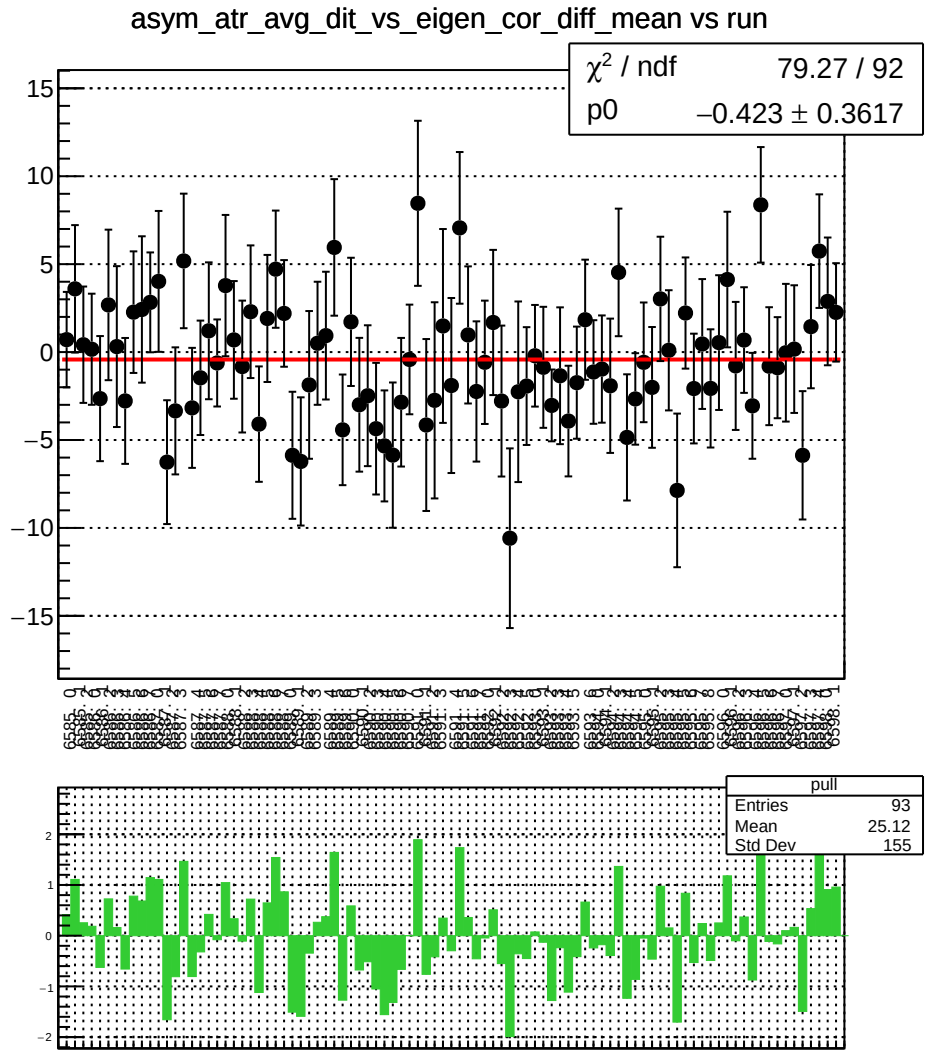

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.38 / 92
p0 2.537e−13 ± 1.132e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean −100.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006701
Std Dev 0.9468
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

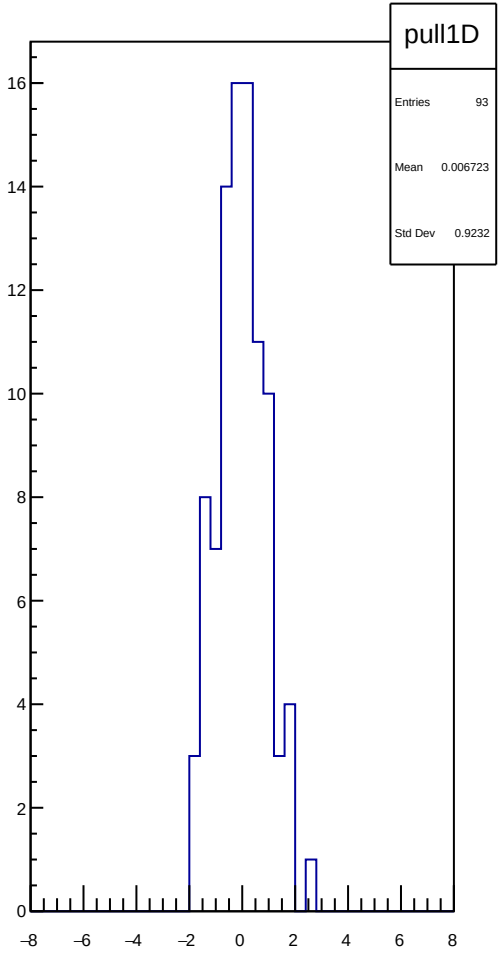

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.205e+06 / 92
p0 6.017e−11 ± 8.003e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

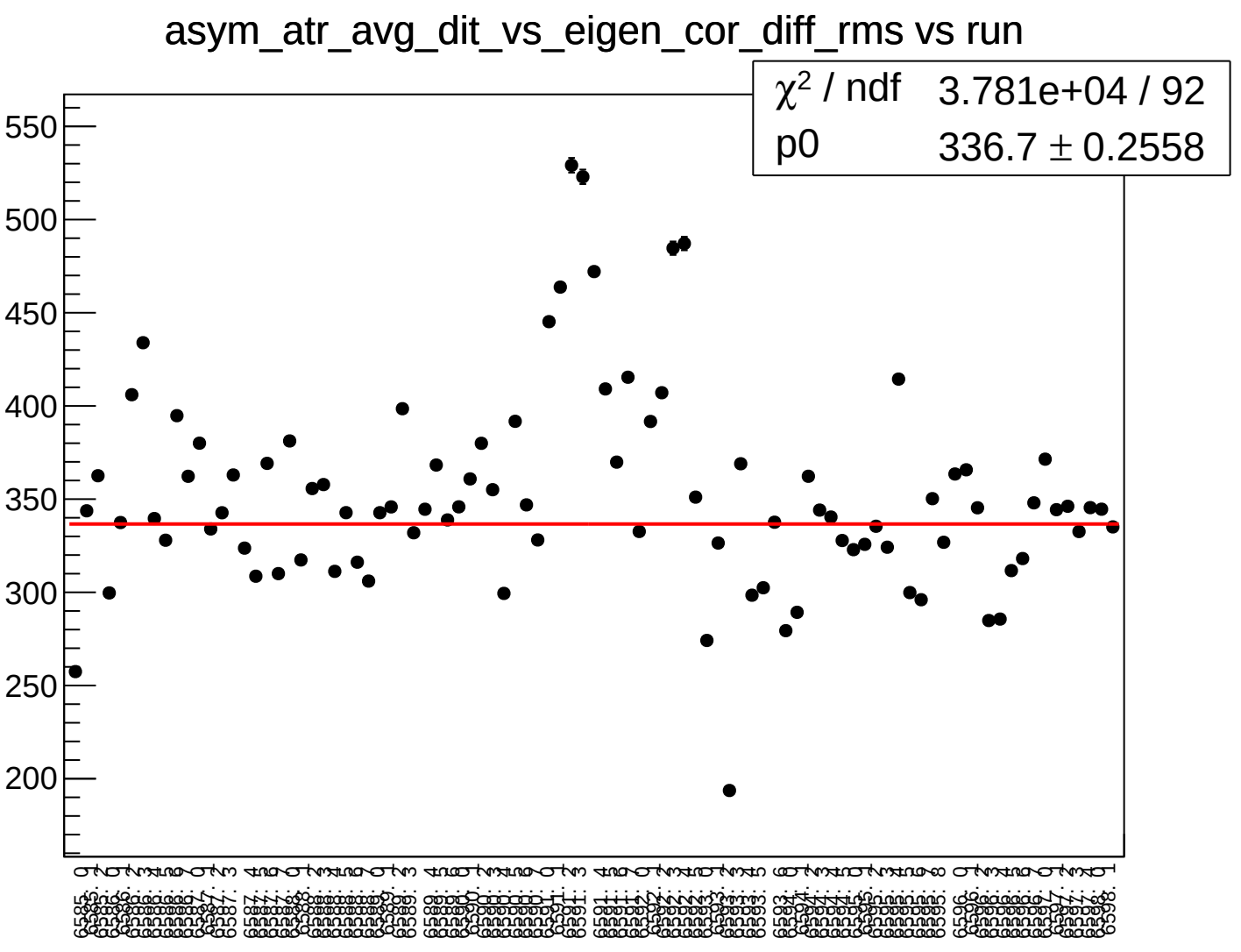

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.27 / 92
p0 −0.423 ± 0.3617
pull
Entries 93
Mean 25.12
Std Dev 155

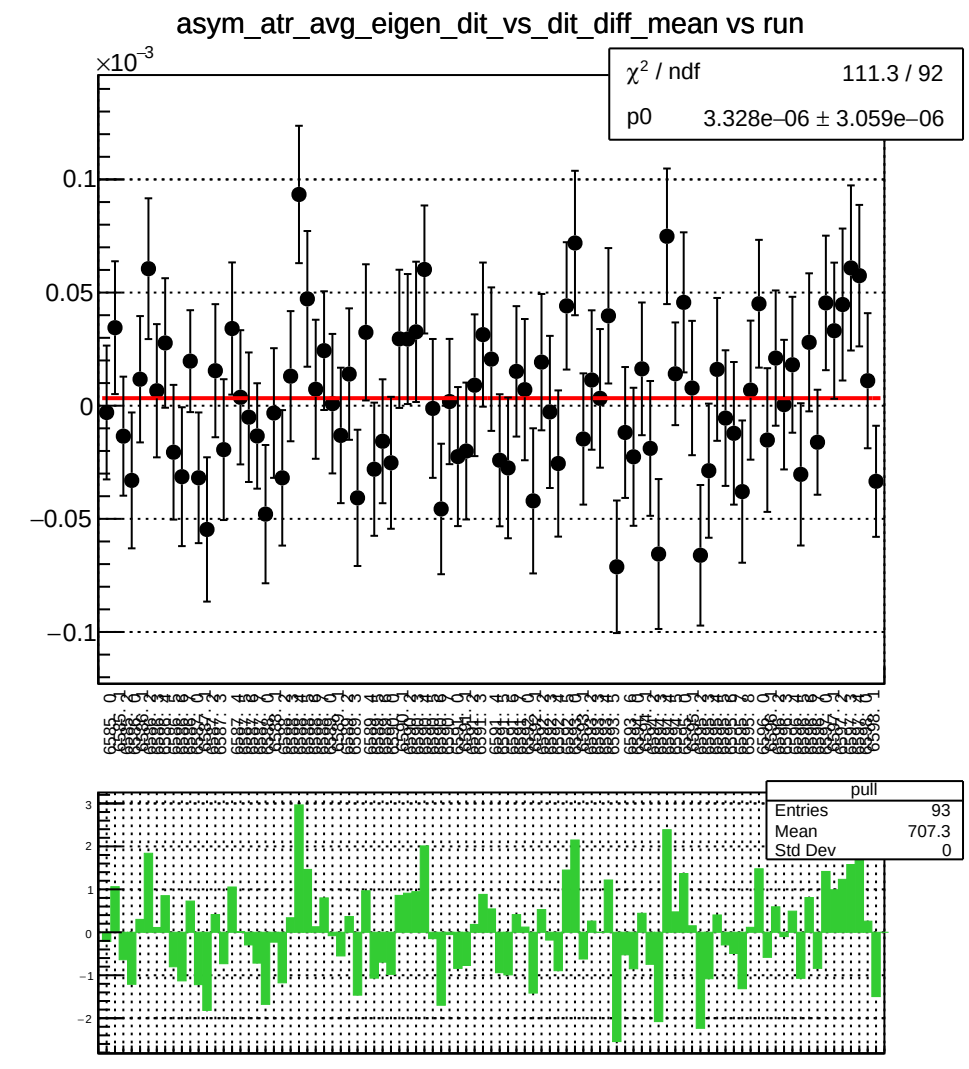

pull1D
Entries 93
Mean 0.006723
Std Dev 0.9232

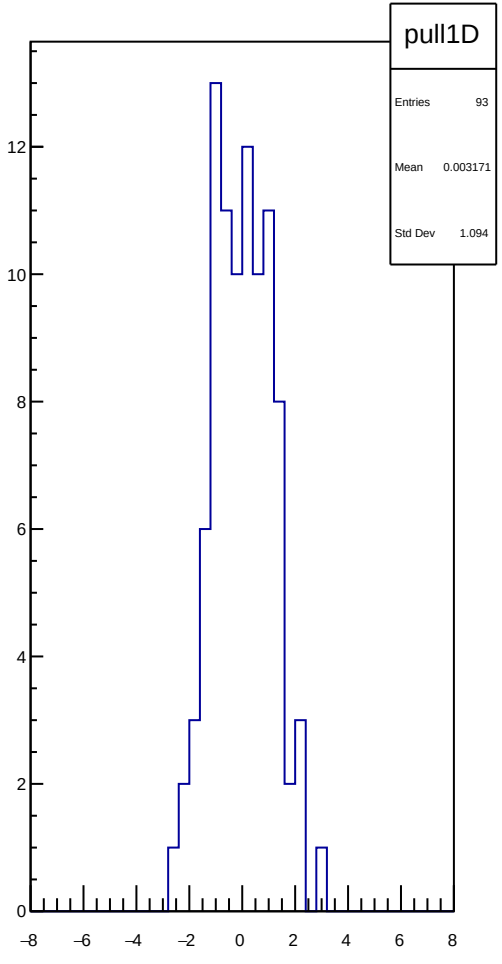

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.781e+04 / 92
p0 336.7 ± 0.2558
550
500
450
400
350
300
250
200

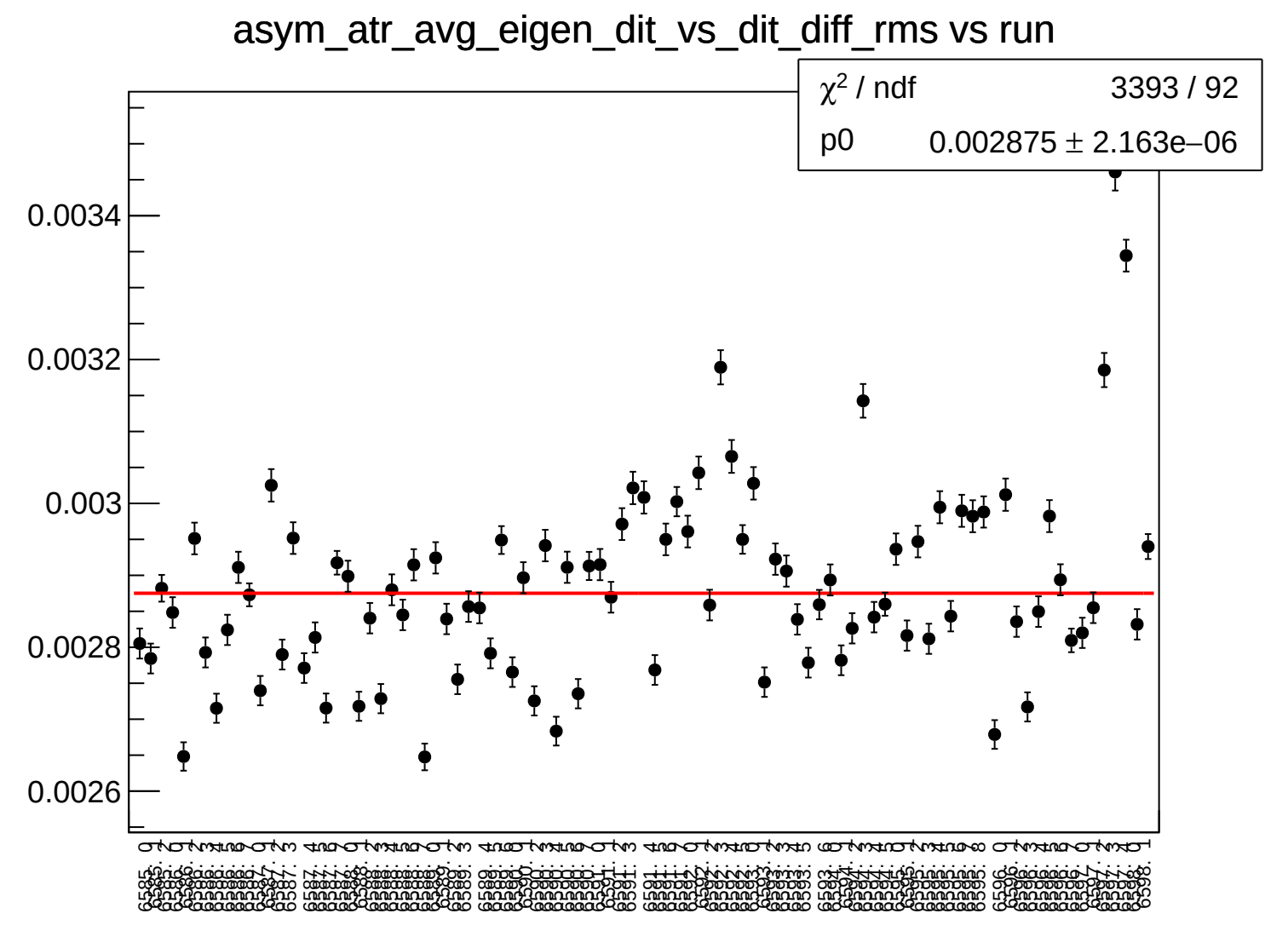

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.27 / 92
p0 −0.423 ± 0.3617
pull
Entries 93
Mean 25.12
Std Dev 155

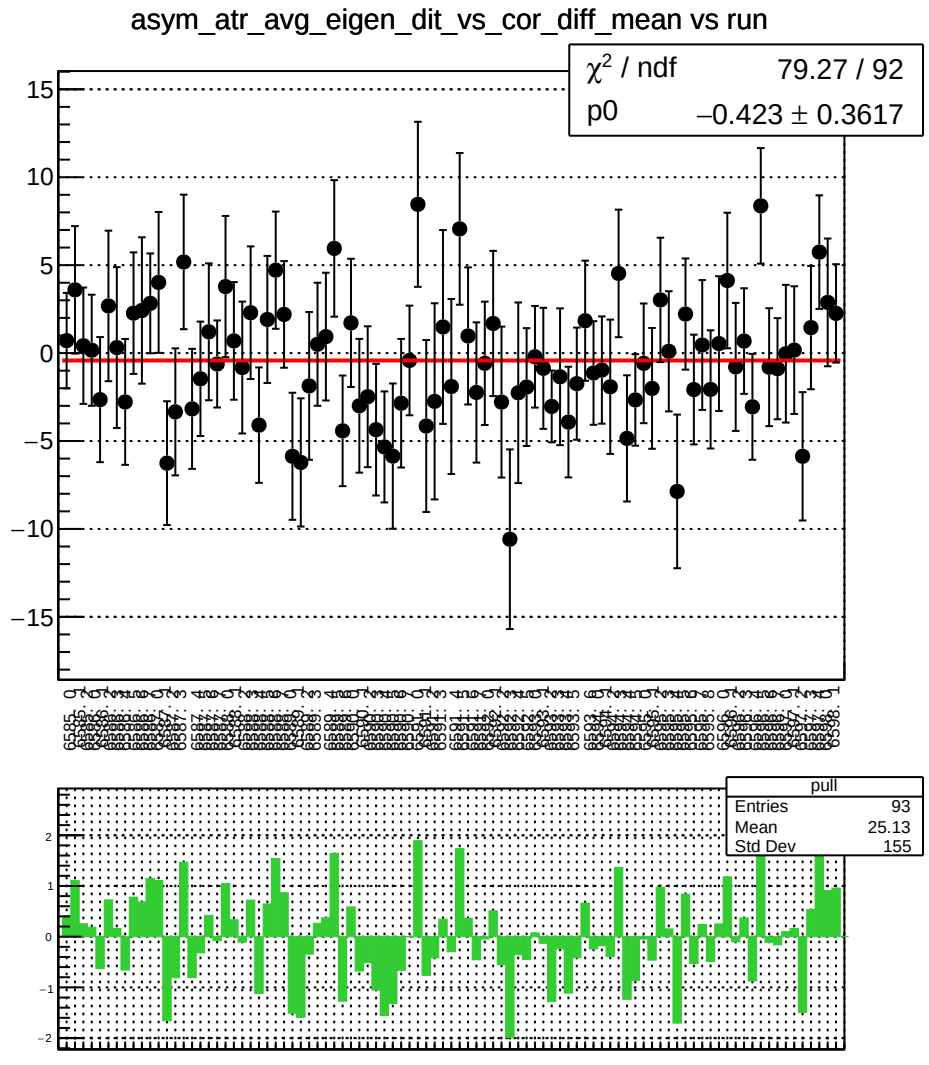

pull1D
Entries 93
Mean 0.006723
Std Dev 0.9232

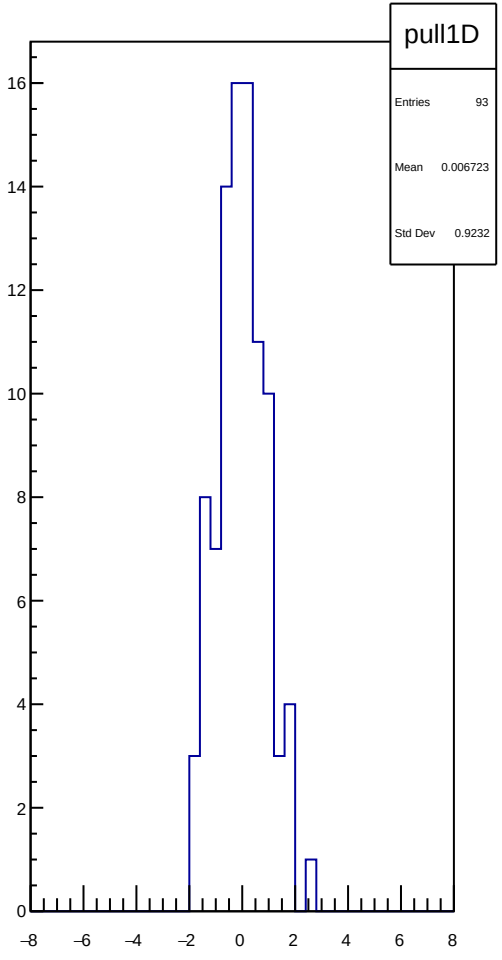

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.781e+04 / 92
p0 336.7 ± 0.2558
550
500
450
400
350
300
250
200

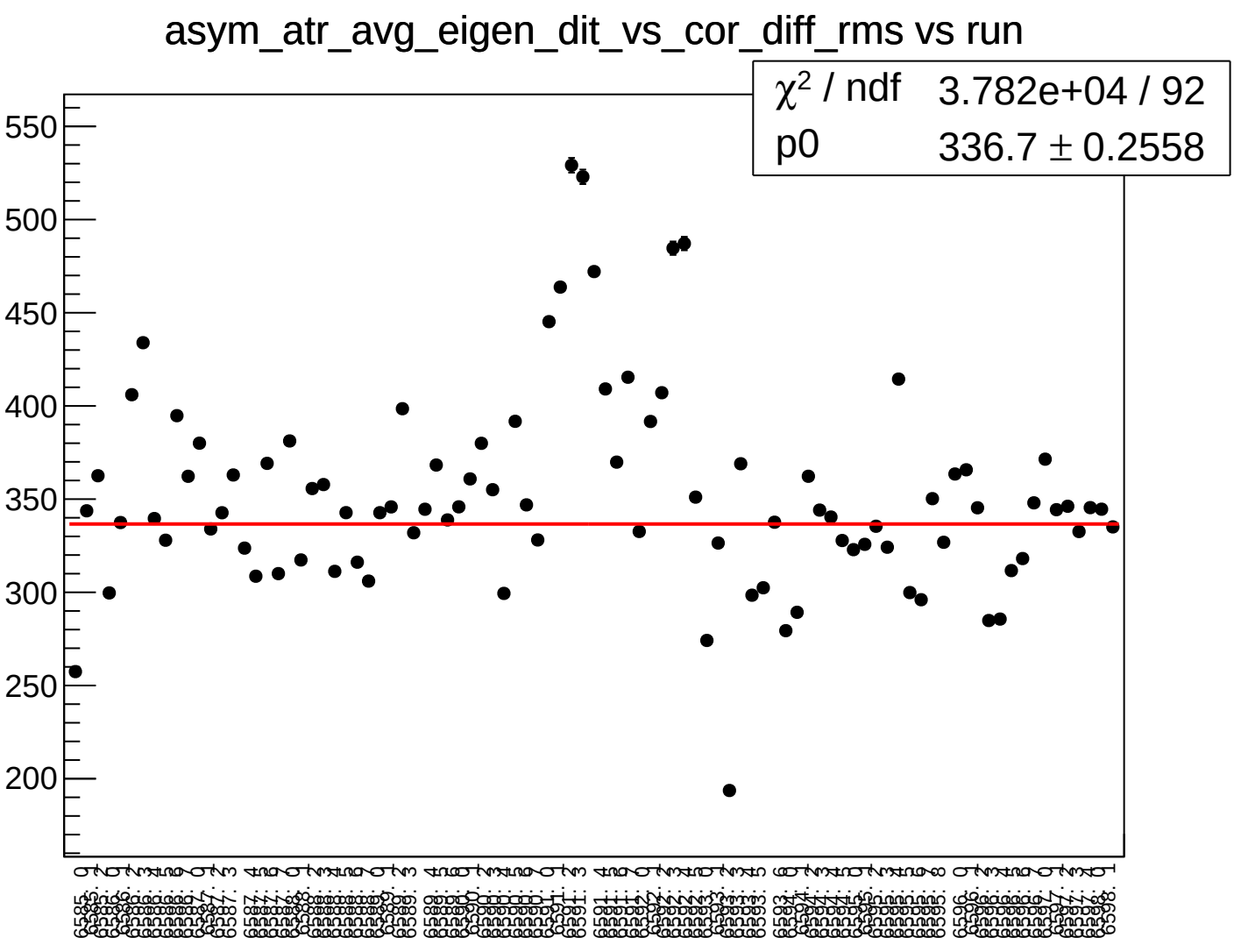

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.3 / 92
p0 3.328e−06 ± 3.059e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 707.3
Std Dev 0
3
2
1
0
−1
−2

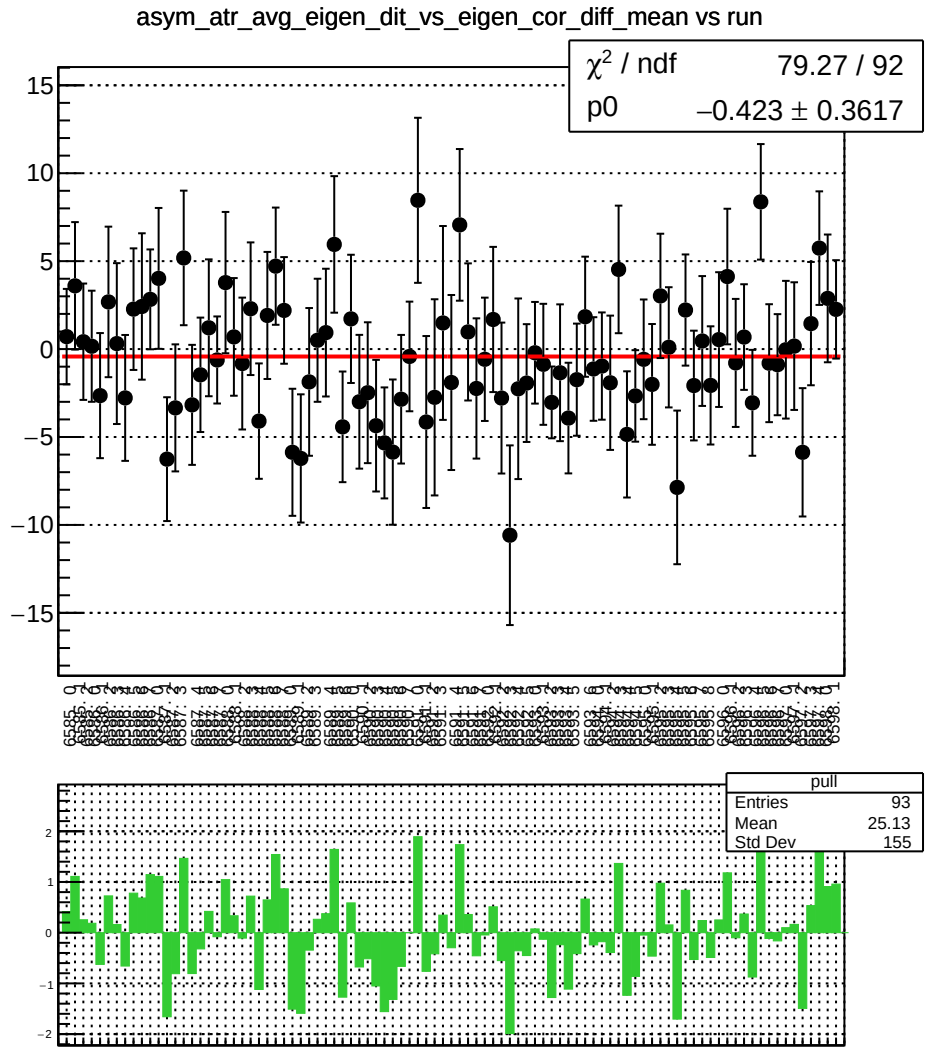

pull1D
Entries 93
Mean 0.003171
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

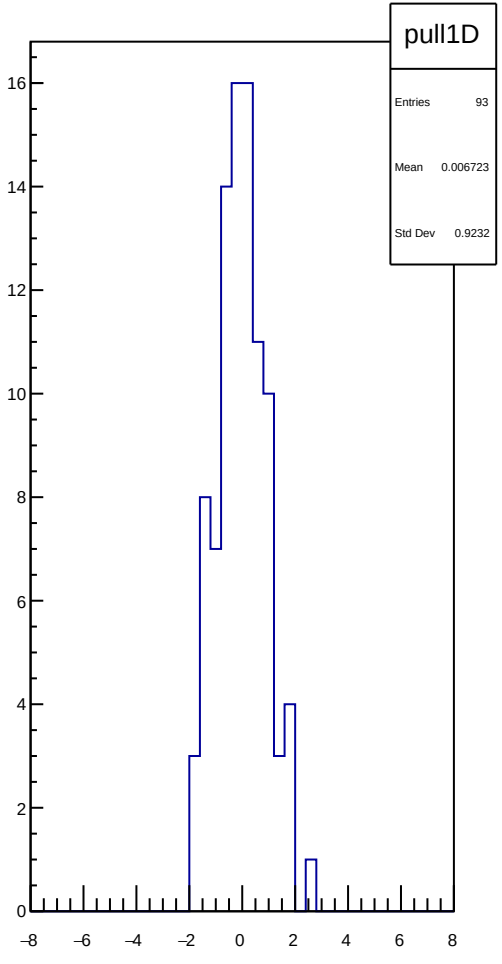

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3393 / 92
p0 0.002875 ± 2.163e−06
0.0034
0.0032
0.003
0.0028
0.0026

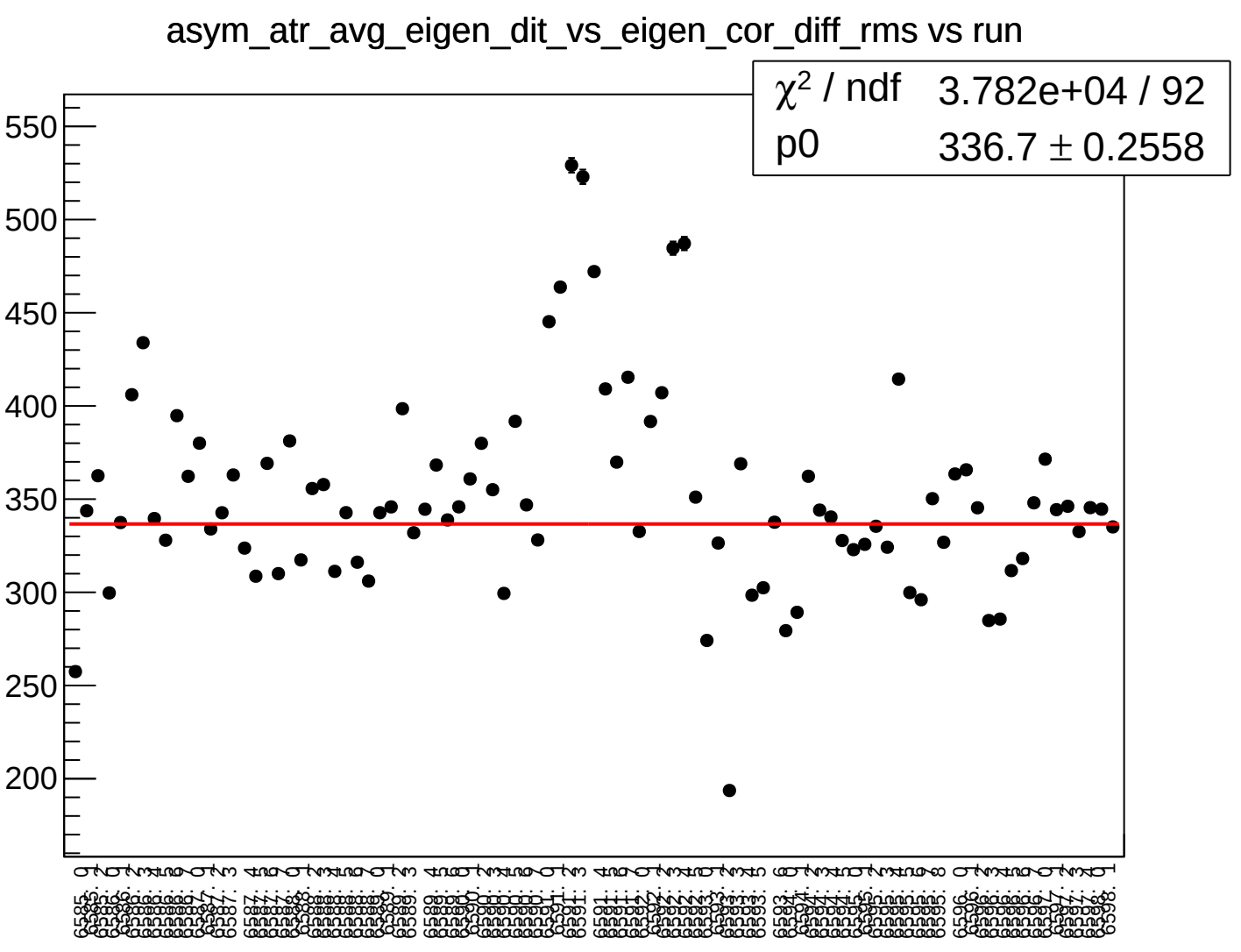

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.27 / 92
p0 −0.423 ± 0.3617
pull
Entries 93
Mean 25.13
Std Dev 155

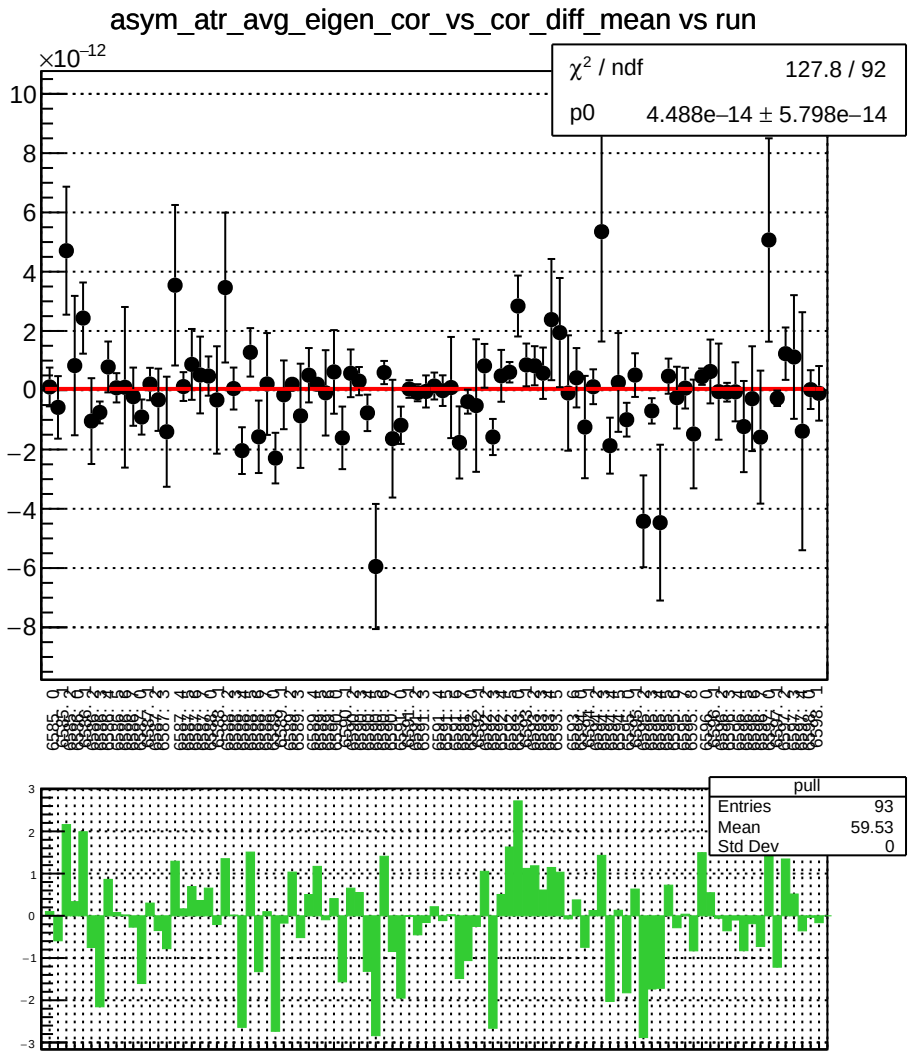

pull1D
Entries 93
Mean 0.006723
Std Dev 0.9232

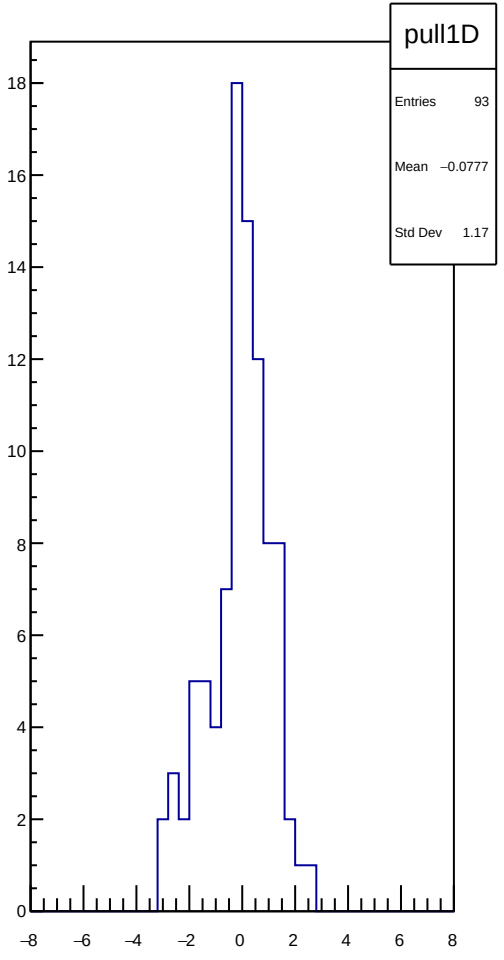

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.782e+04 / 92
p0 336.7 ± 0.2558
550
500
450
400
350
300
250
200

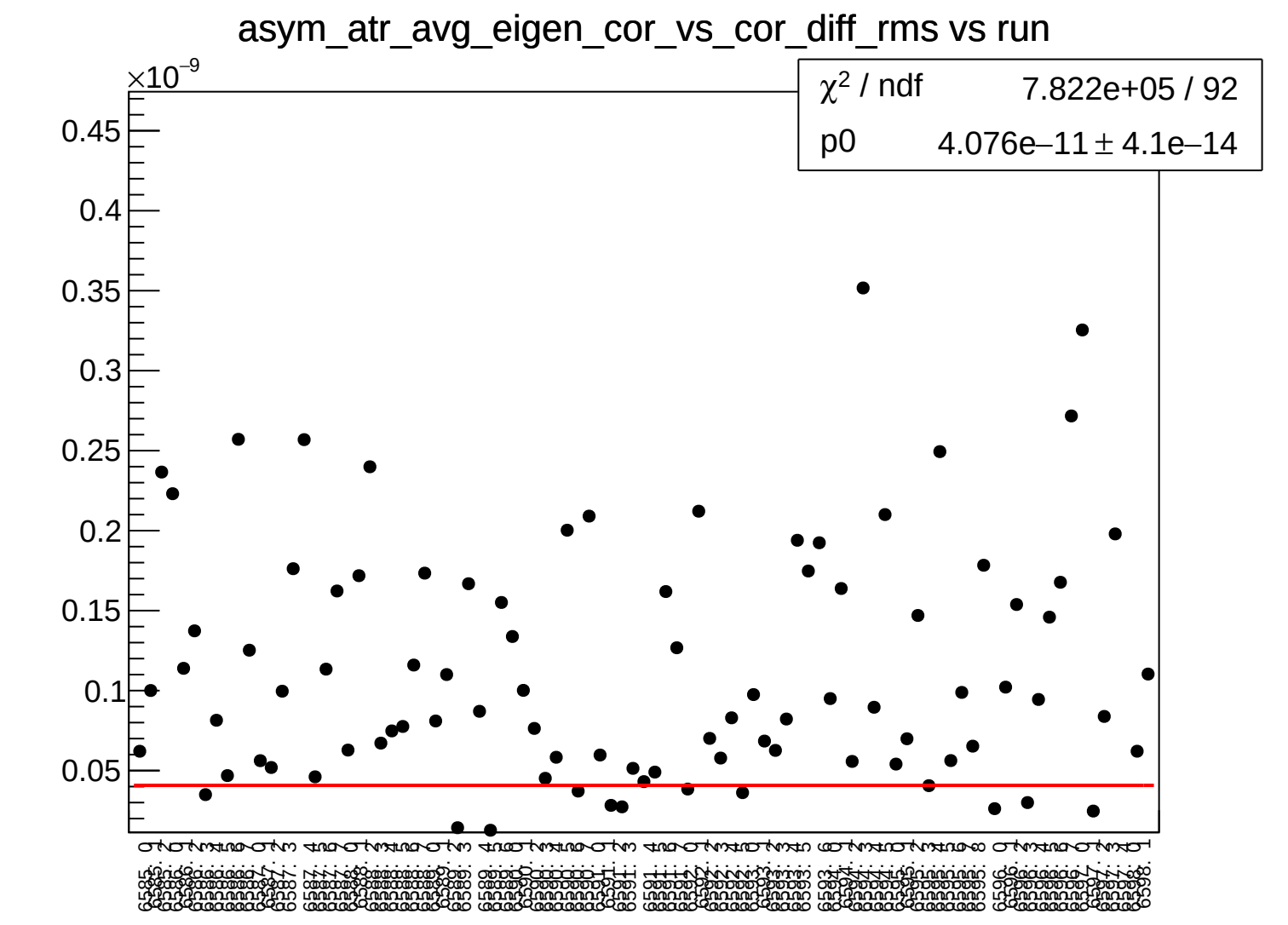

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.27 / 92
p0 −0.423 ± 0.3617
pull
Entries 93
Mean 25.13
Std Dev 155

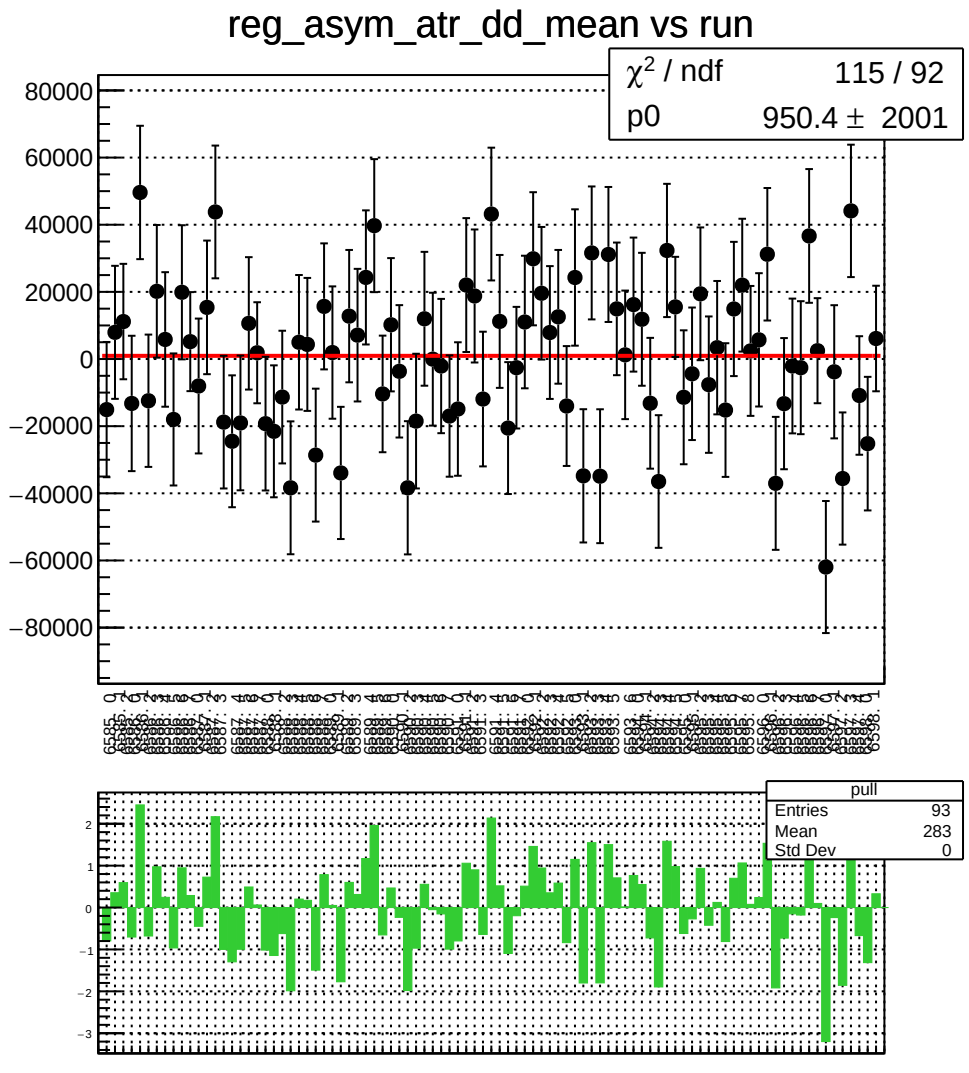

pull1D
Entries 93
Mean 0.006723
Std Dev 0.9232

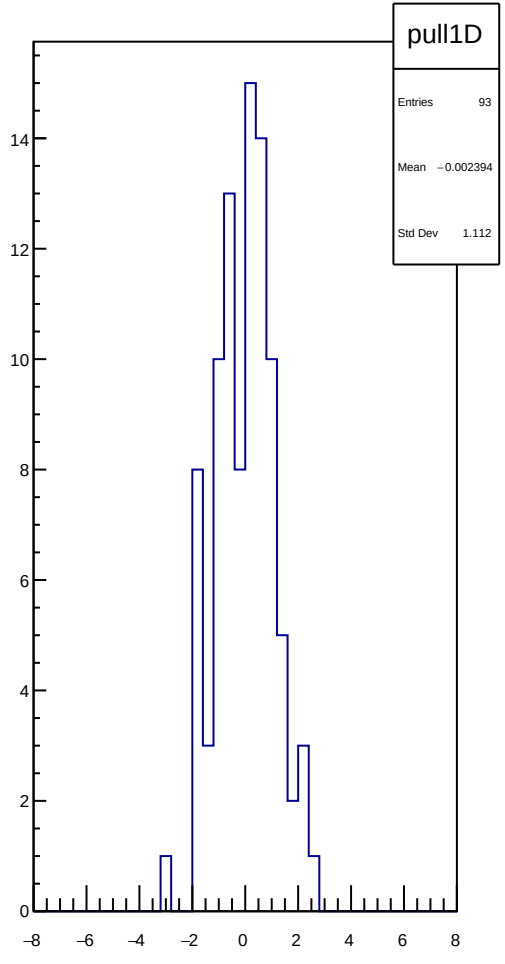

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.782e+04 / 92
p0 336.7 ± 0.2558
550
500
450
400
350
300
250
200

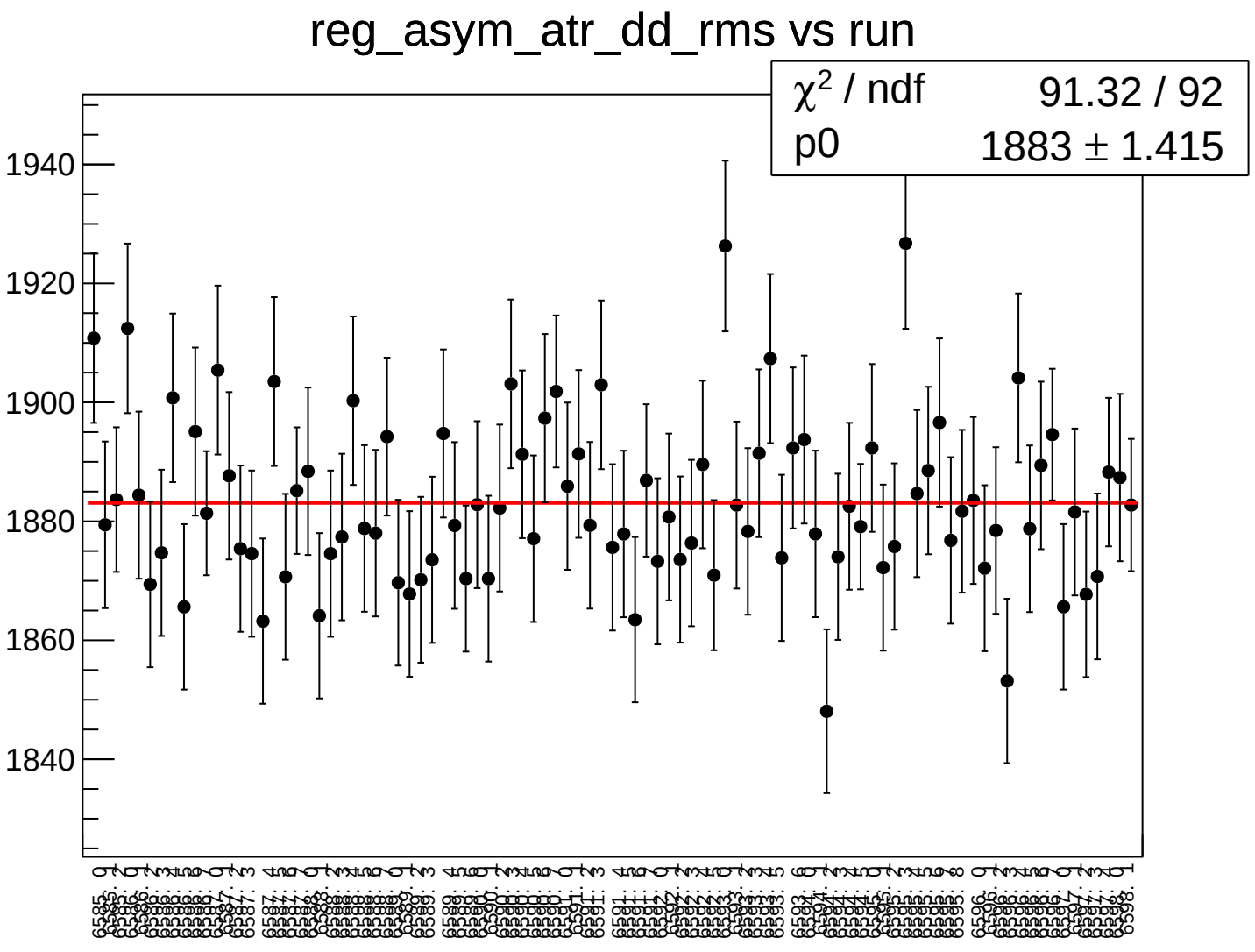

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 127.8 / 92
p0 4.488e−14 ± 5.798e−14
pull
Entries 93
Mean 59.53
Std Dev 0

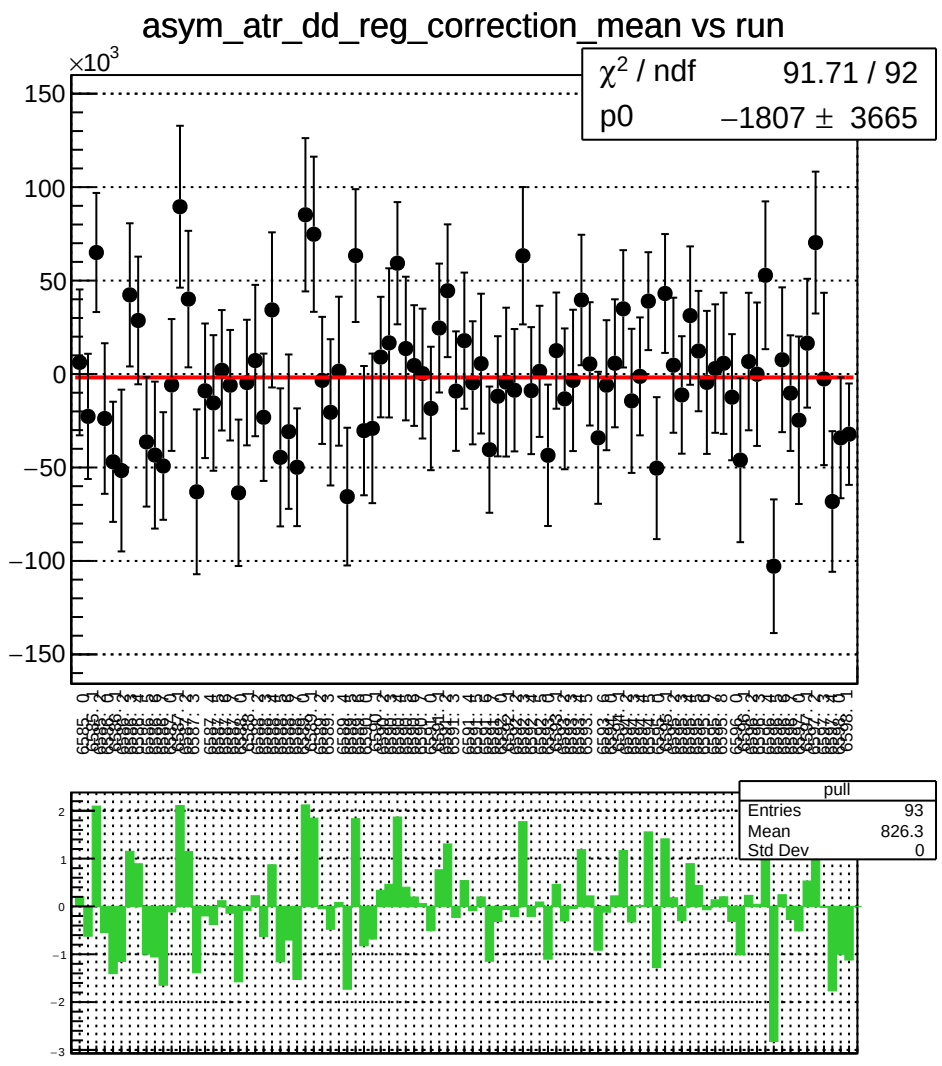

pull1D
Entries 93
Mean −0.0777
Std Dev 1.17

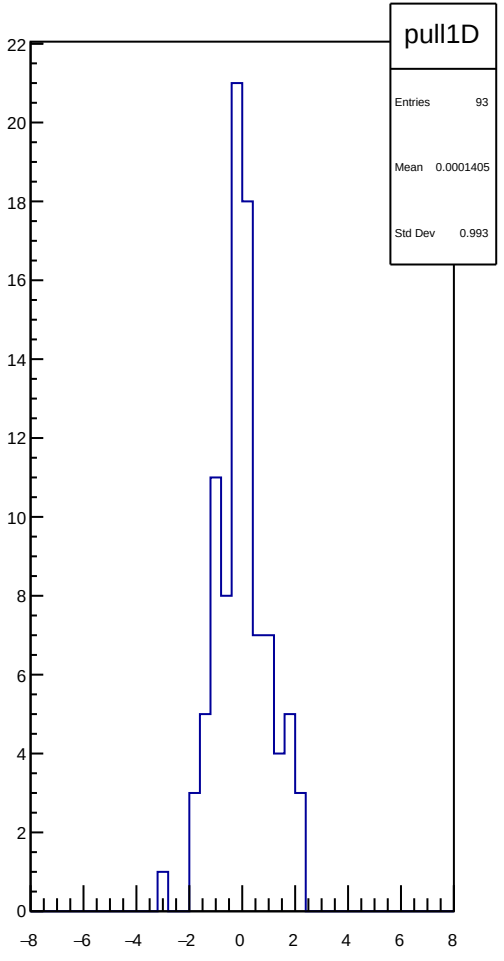

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.822e+05 / 92
p0 4.076e−11 ± 4.1e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

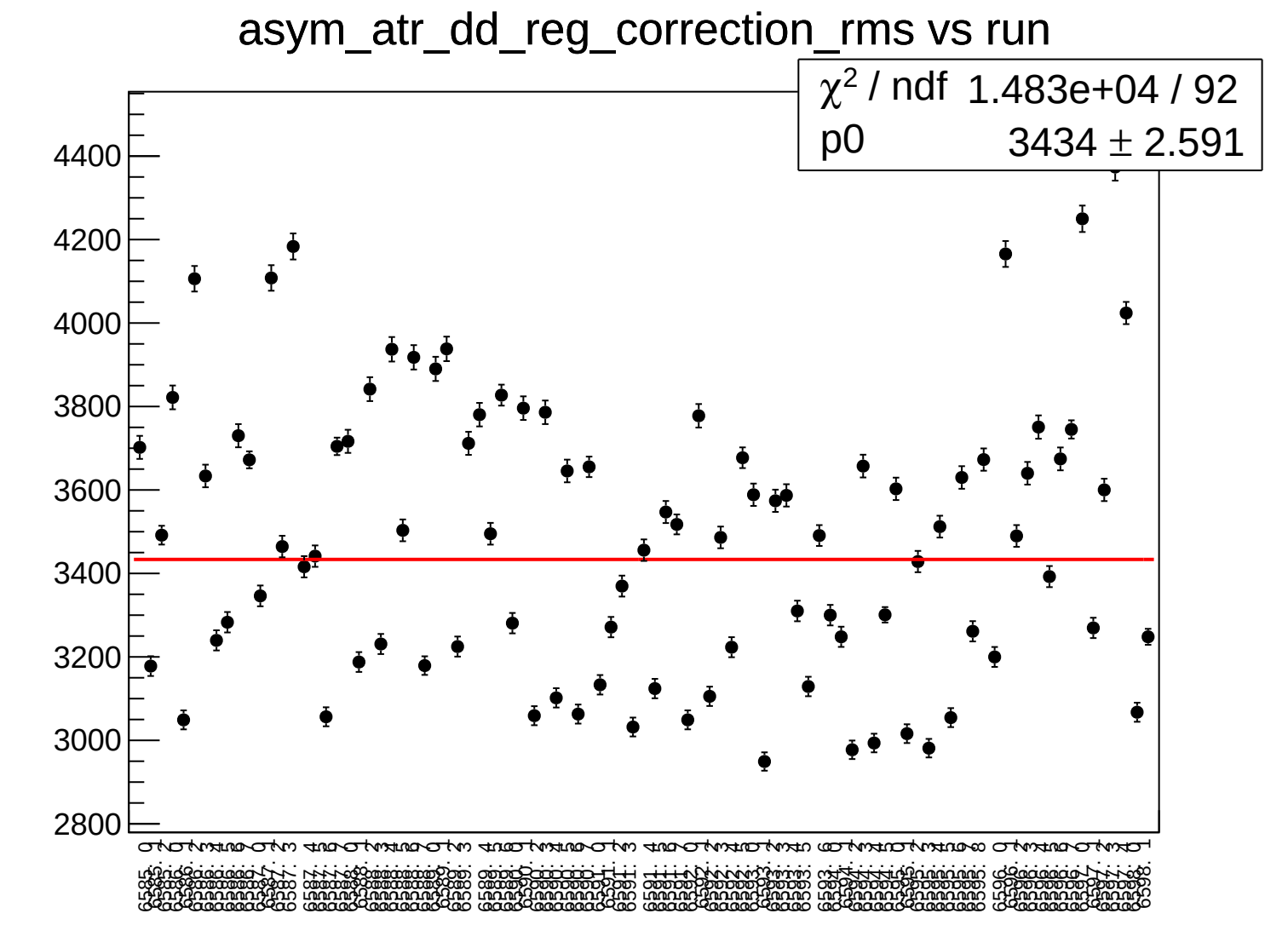

reg_asym_atr_dd_mean vs run
χ² / ndf 115 / 92
p0 950.4 ± 2001
pull
Entries 93
Mean 283
Std Dev 0

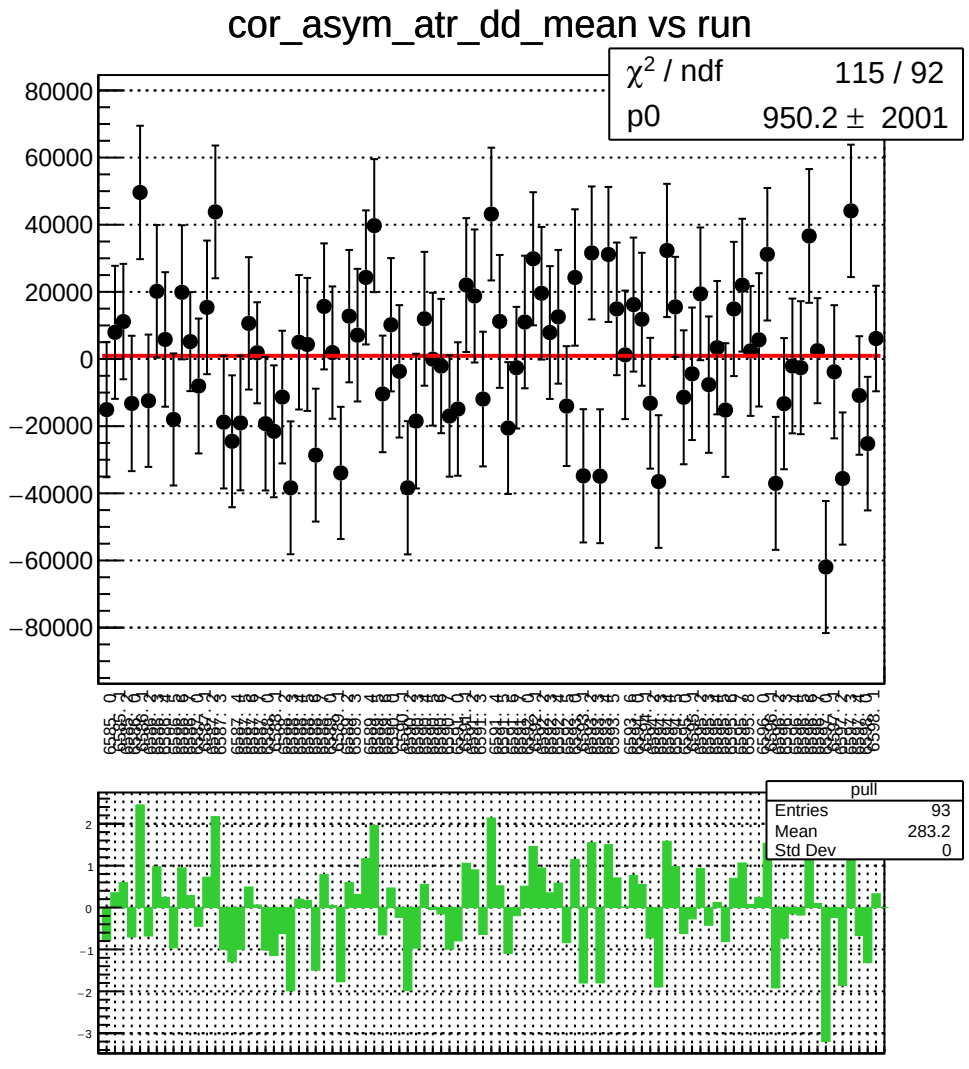

pull1D
Entries 93
Mean −0.002394
Std Dev 1.112

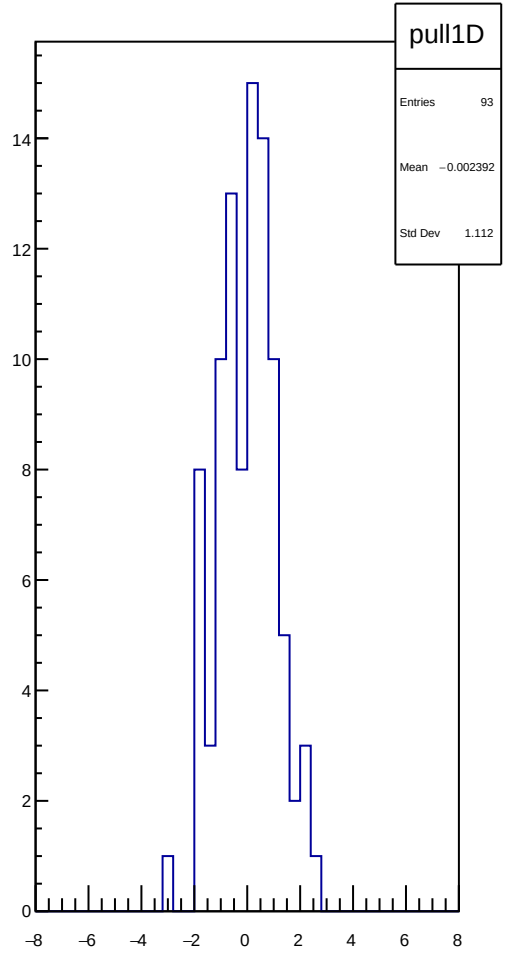

reg_asym_atr_dd_rms vs run
χ^2 / ndf 91.32 / 92
p0 1883 ± 1.415
1940
1920
1900
1880
1860
1840

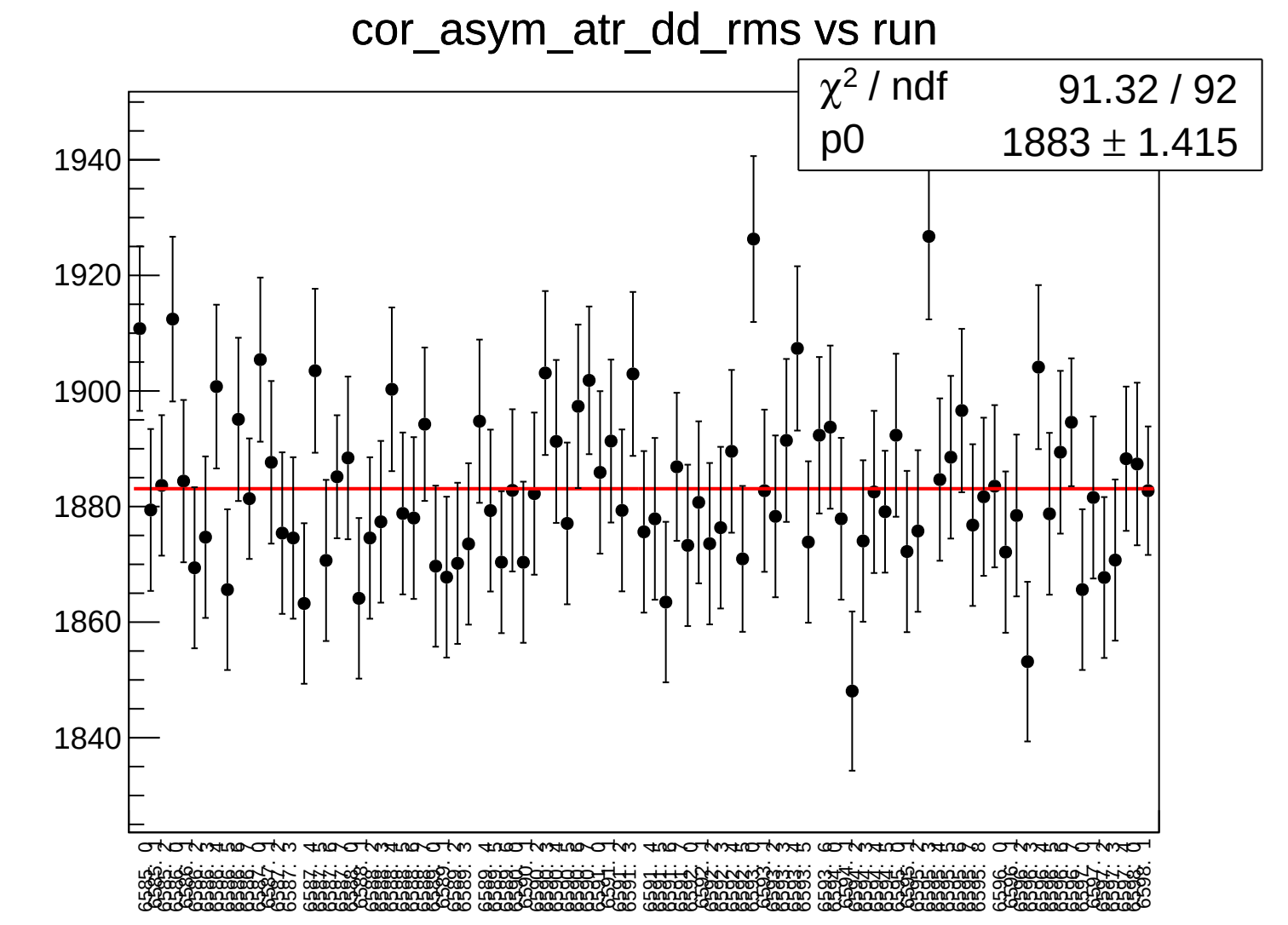

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.71 / 92
p0 −1807 ± 3665
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 826.3
Std Dev 0
2
1
0
−1
−2
−3

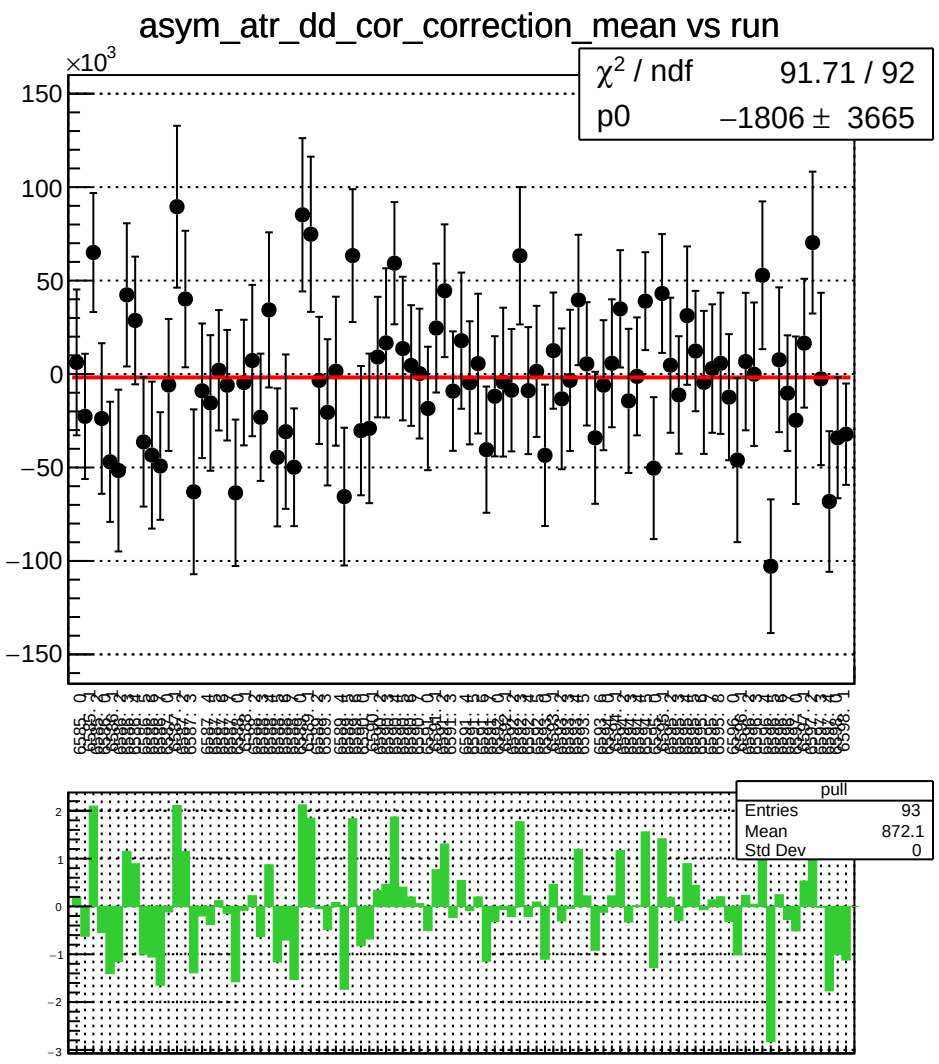

pull1D
Entries 93
Mean 0.0001405
Std Dev 0.993
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

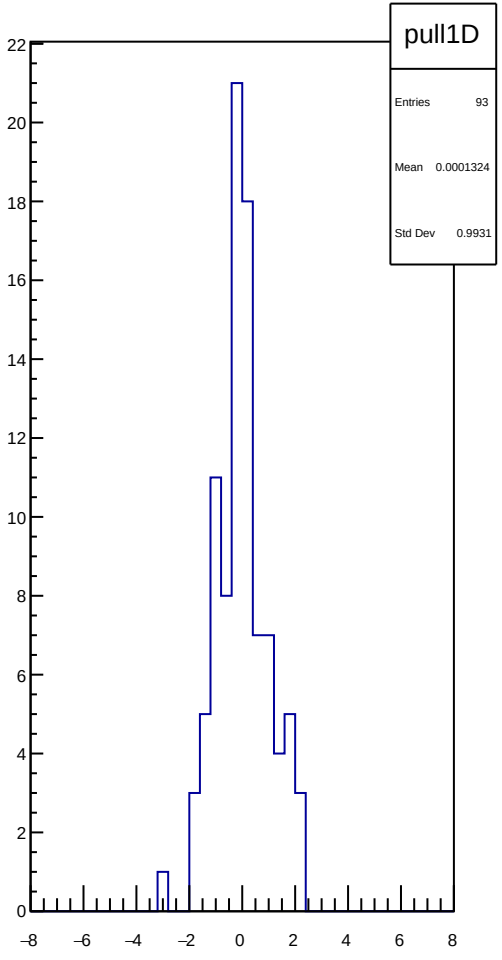

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.483e+04 / 92
p0 3434 ± 2.591
4400
4200
4000
3800
3600
3400
3200
3000
2800

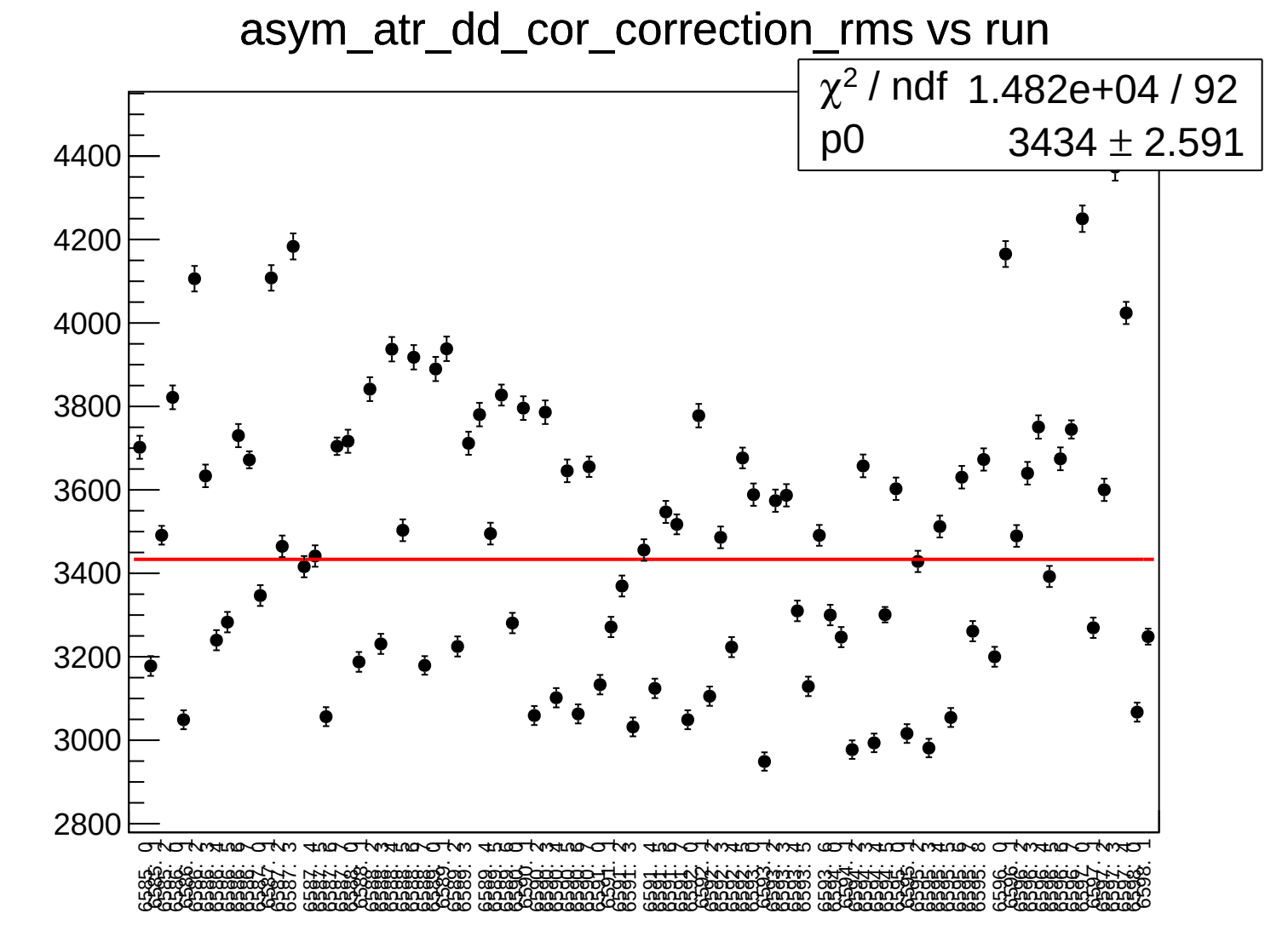

cor_asym_atr_dd_mean vs run
χ² / ndf 115 / 92
p0 950.2 ± 2001
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 283.2
Std Dev 0
2
1
0
−1
−2
−3

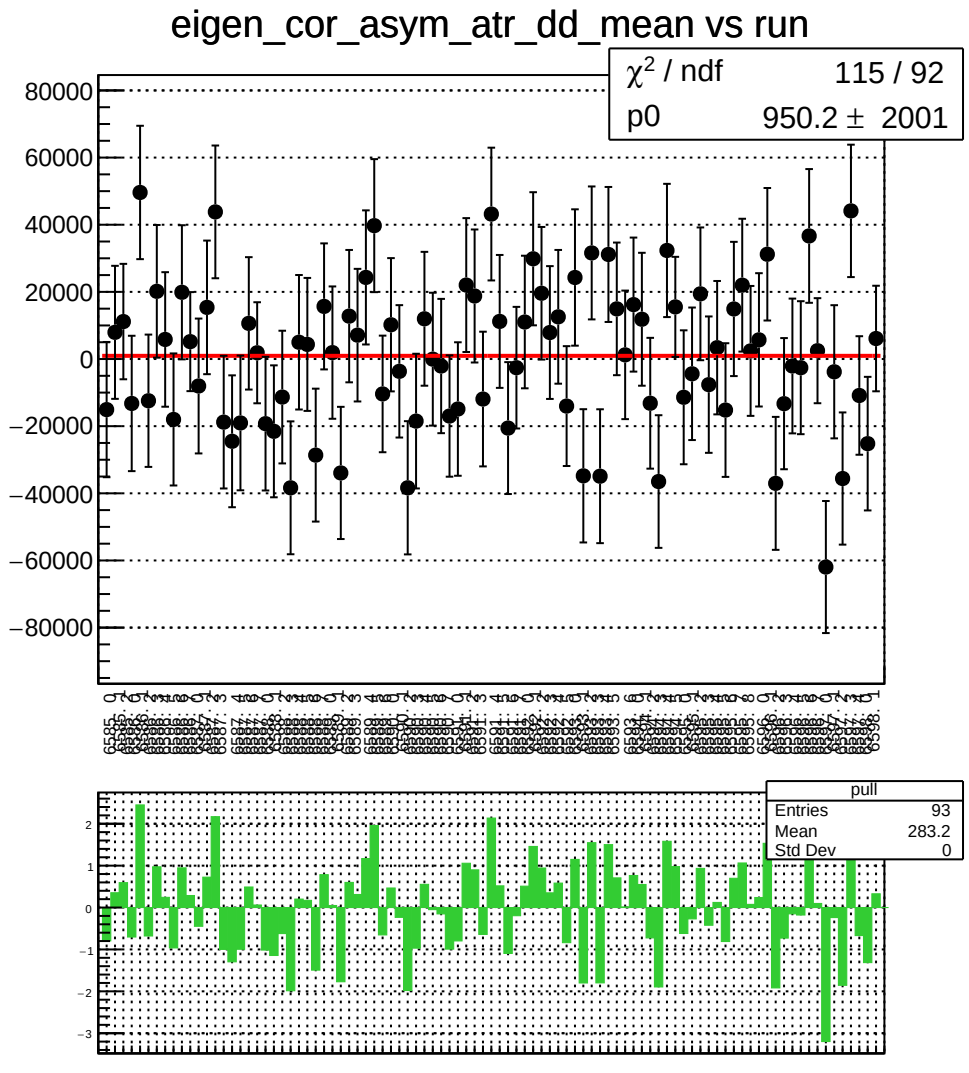

pull1D
Entries 93
Mean −0.002392
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

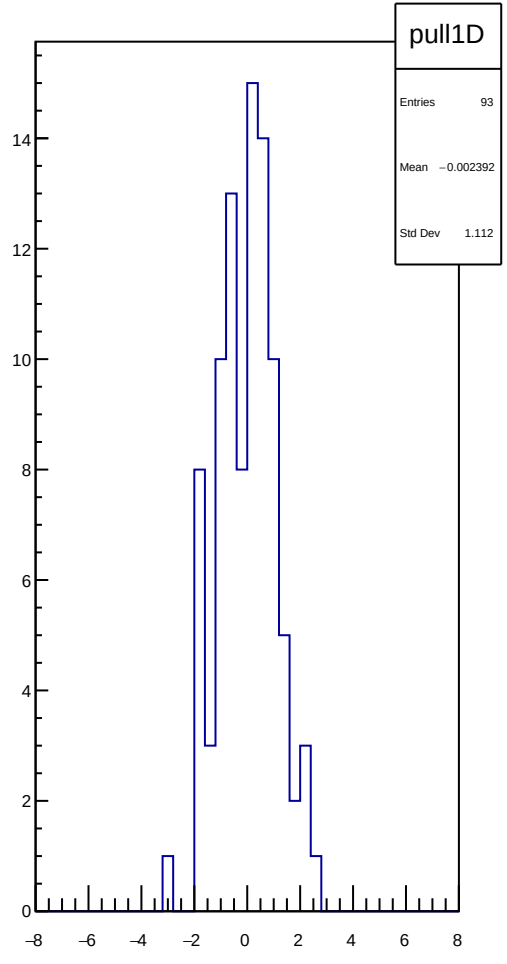

cor_asym_atr_dd_rms vs run
χ^2 / ndf 91.32 / 92
p0 1883 ± 1.415
1940
1920
1900
1880
1860
1840

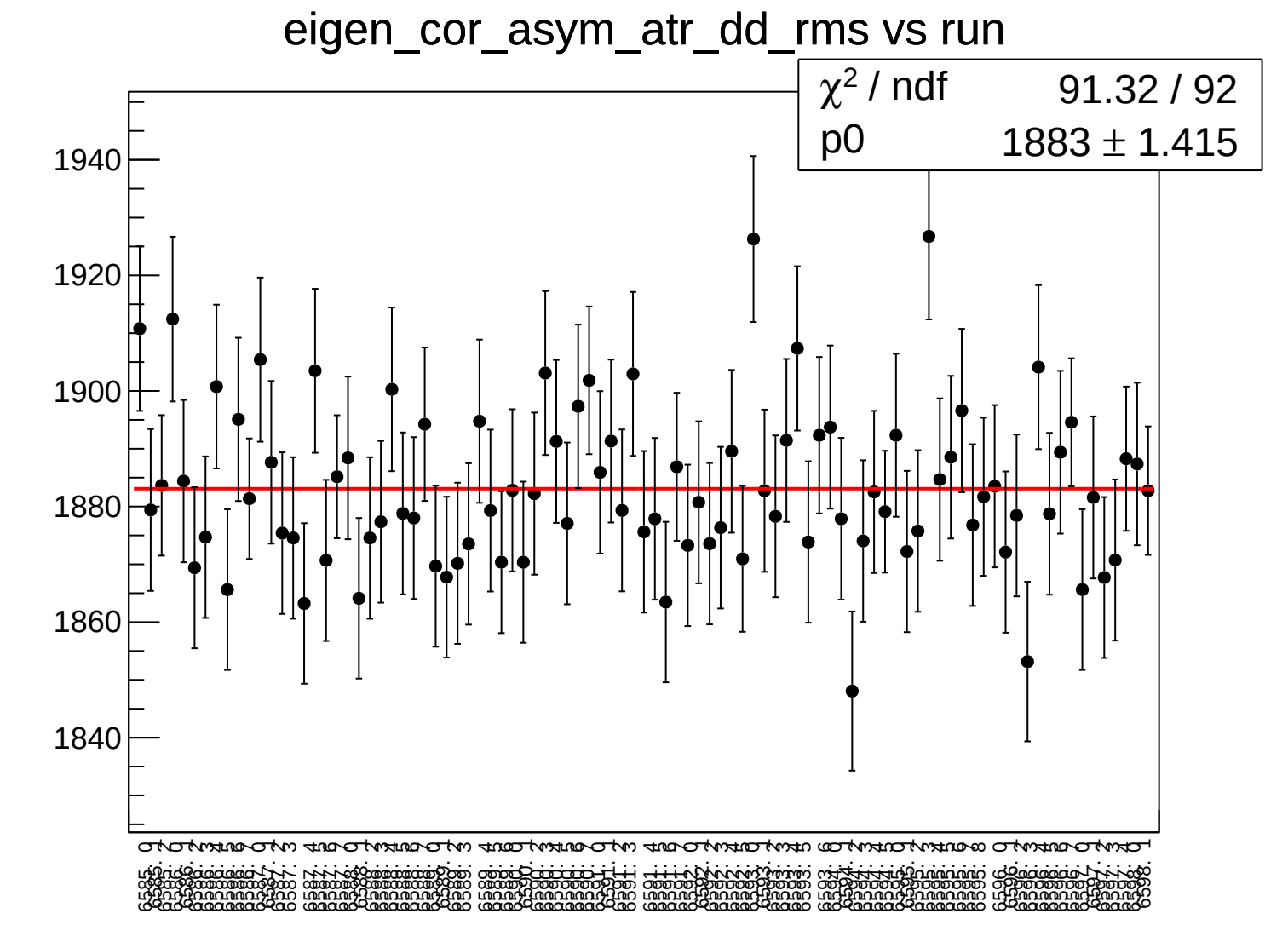

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.71 / 92
p0 −1806 ± 3665
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 872.1
Std Dev 0
2
1
0
−1
−2
−3

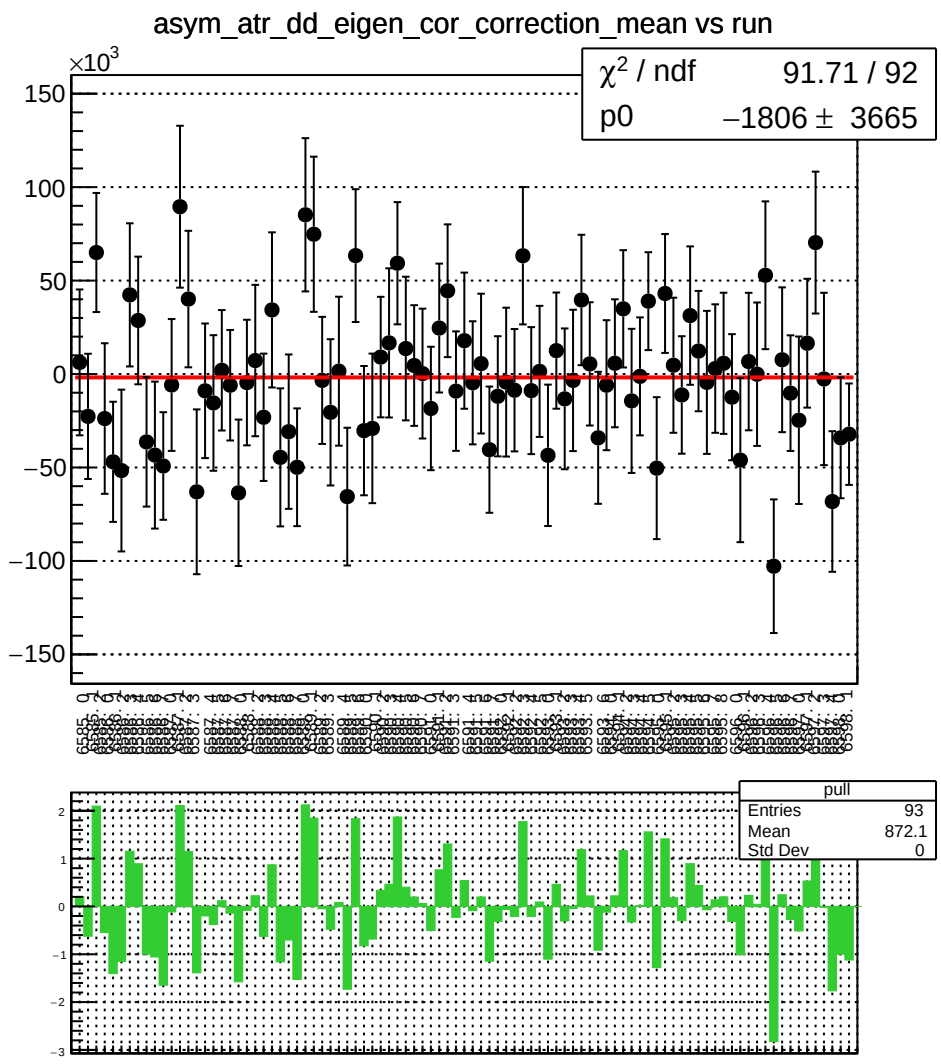

pull1D
Entries 93
Mean 0.0001324
Std Dev 0.9931
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

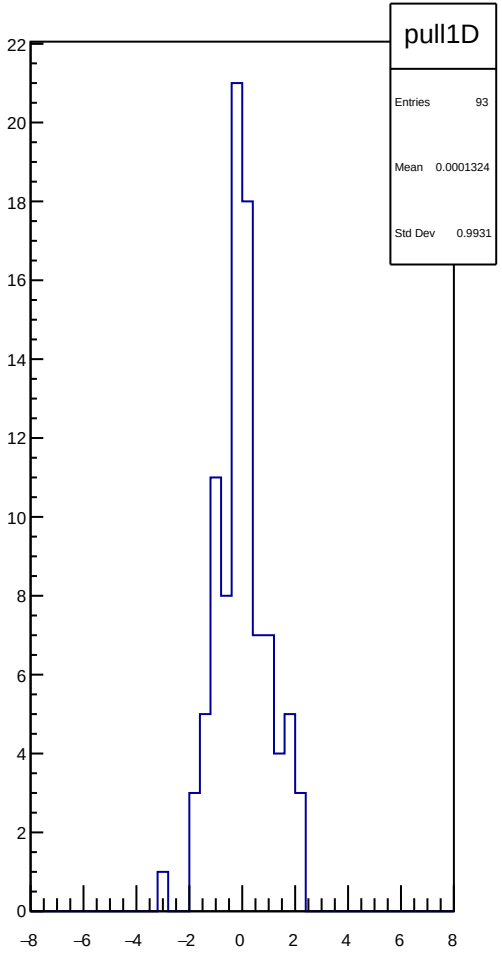

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.482e+04 / 92
p0 3434 ± 2.591
4400
4200
4000
3800
3600
3400
3200
3000
2800

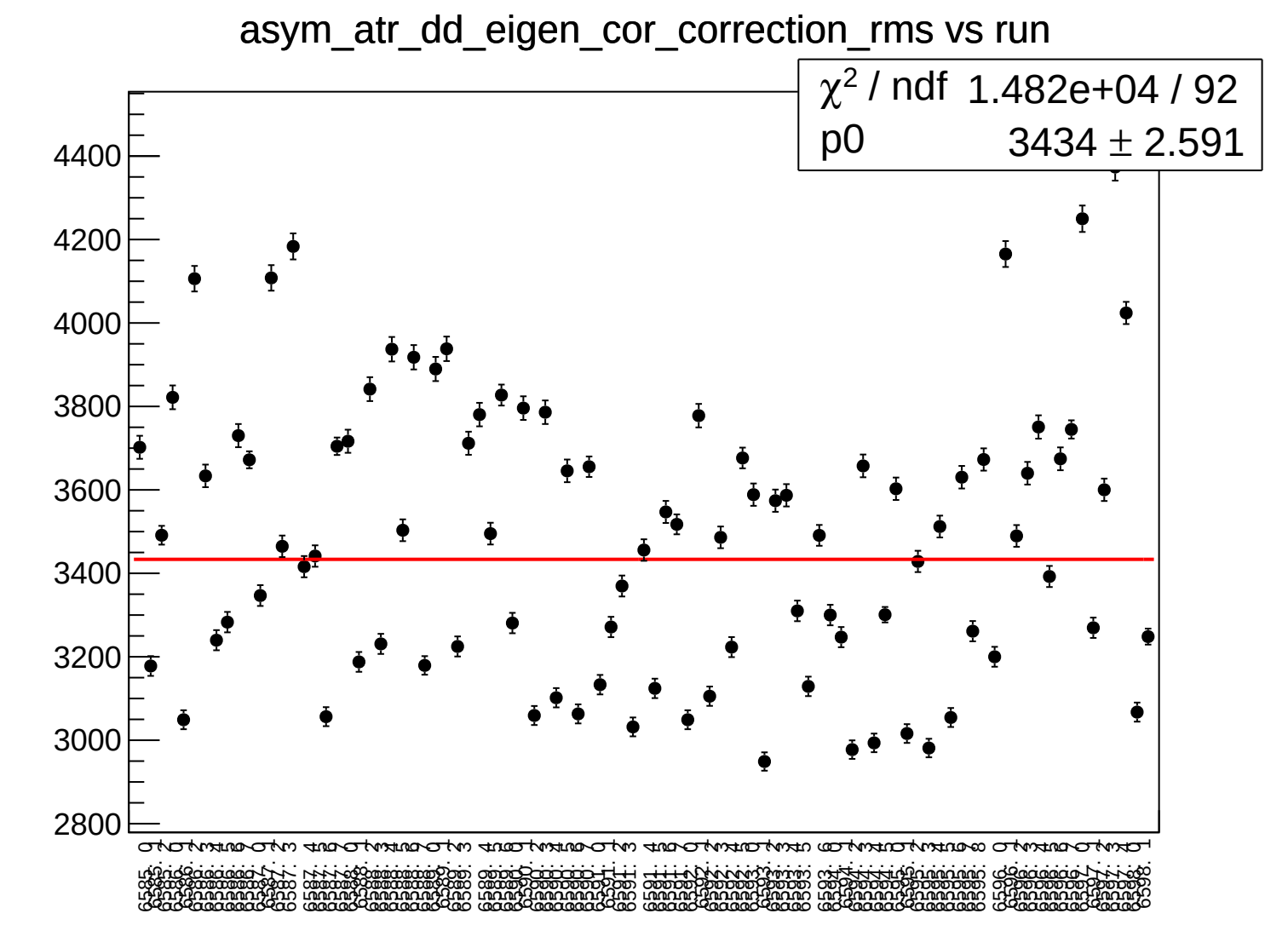

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 115 / 92
p0 950.2 ± 2001
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 283.2
Std Dev 0
2
1
0
−1
−2
−3

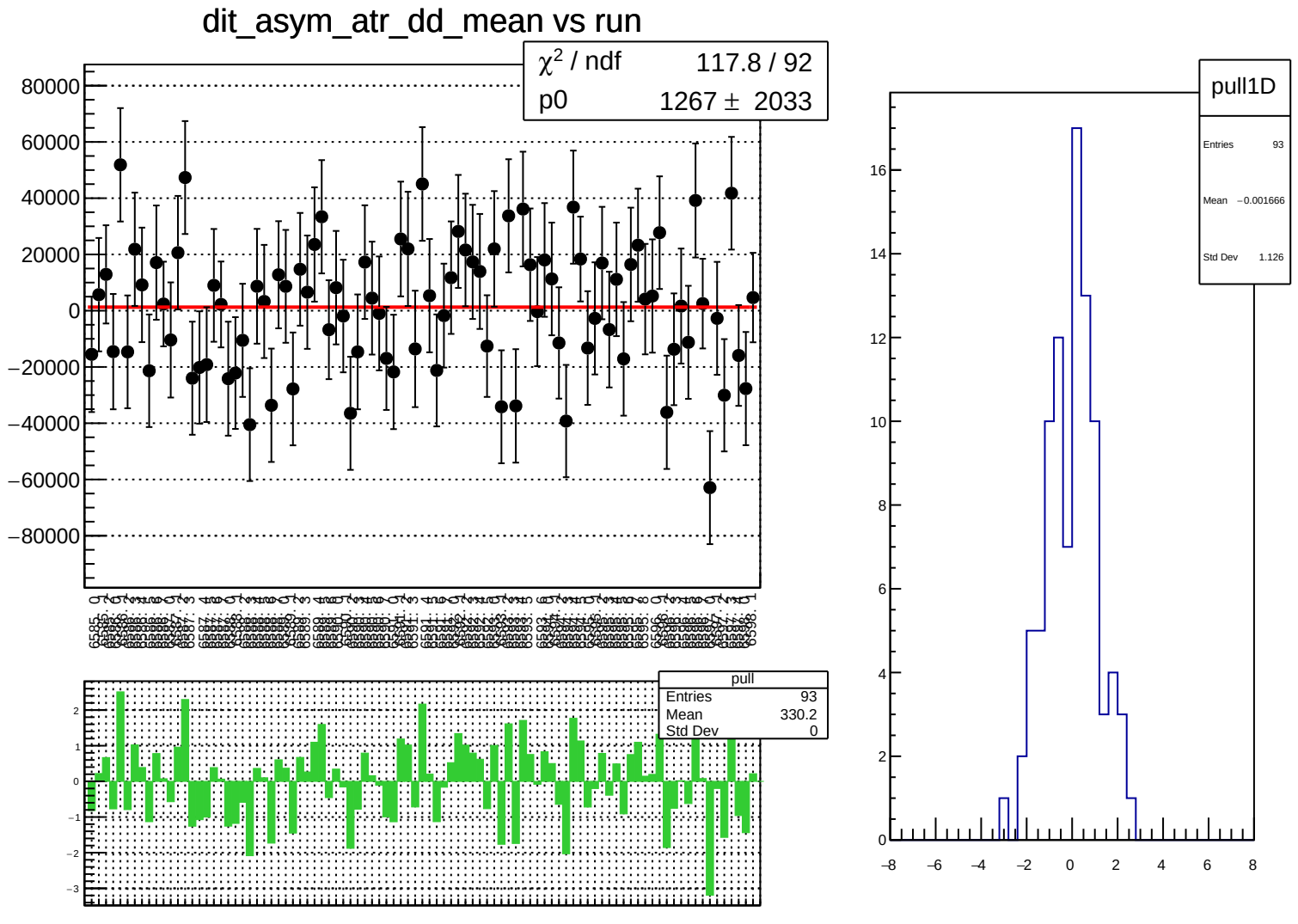

pull1D
Entries 93
Mean −0.002392
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

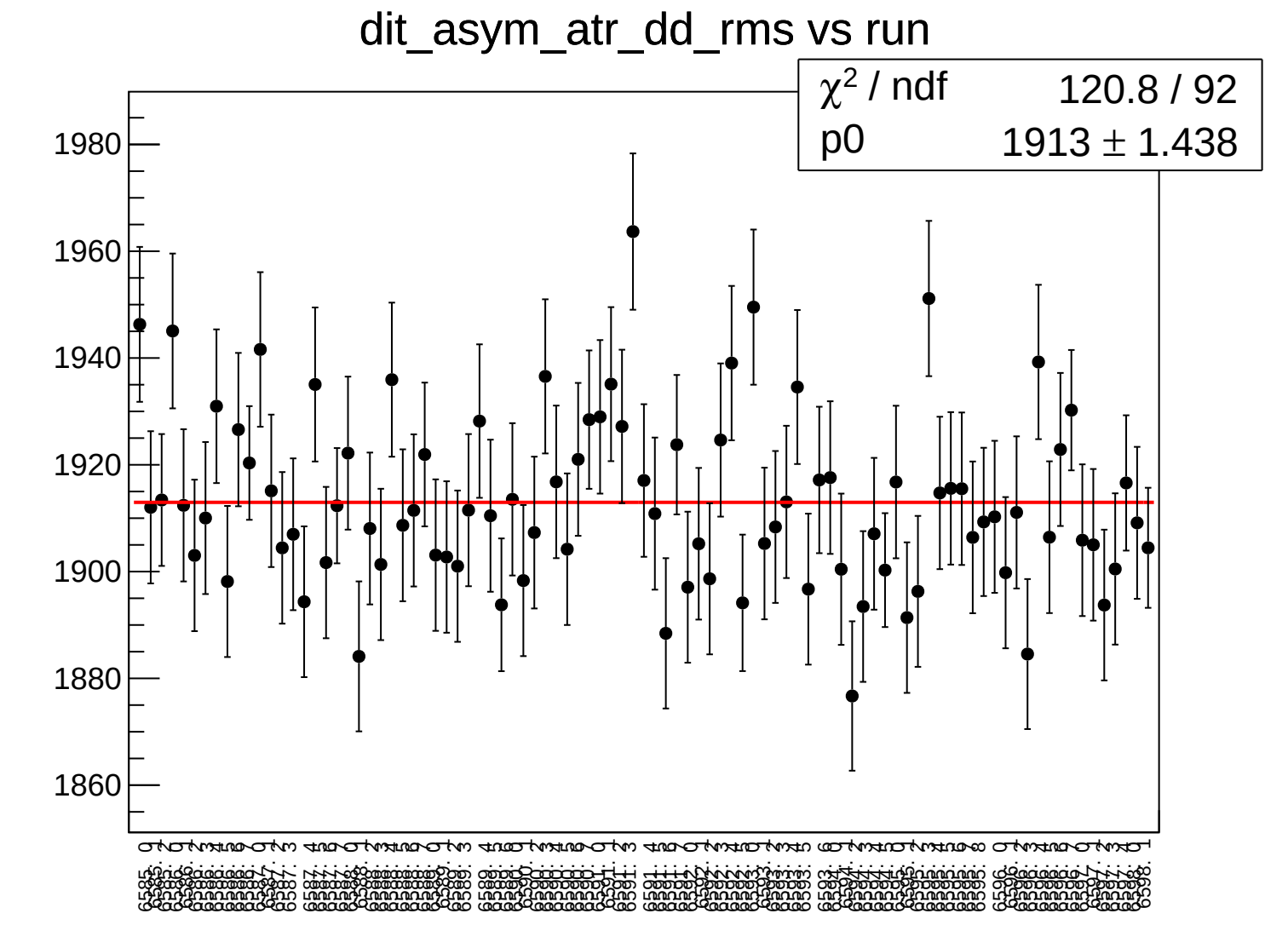

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 91.32 / 92
p0 1883 ± 1.415
1940
1920
1900
1880
1860
1840

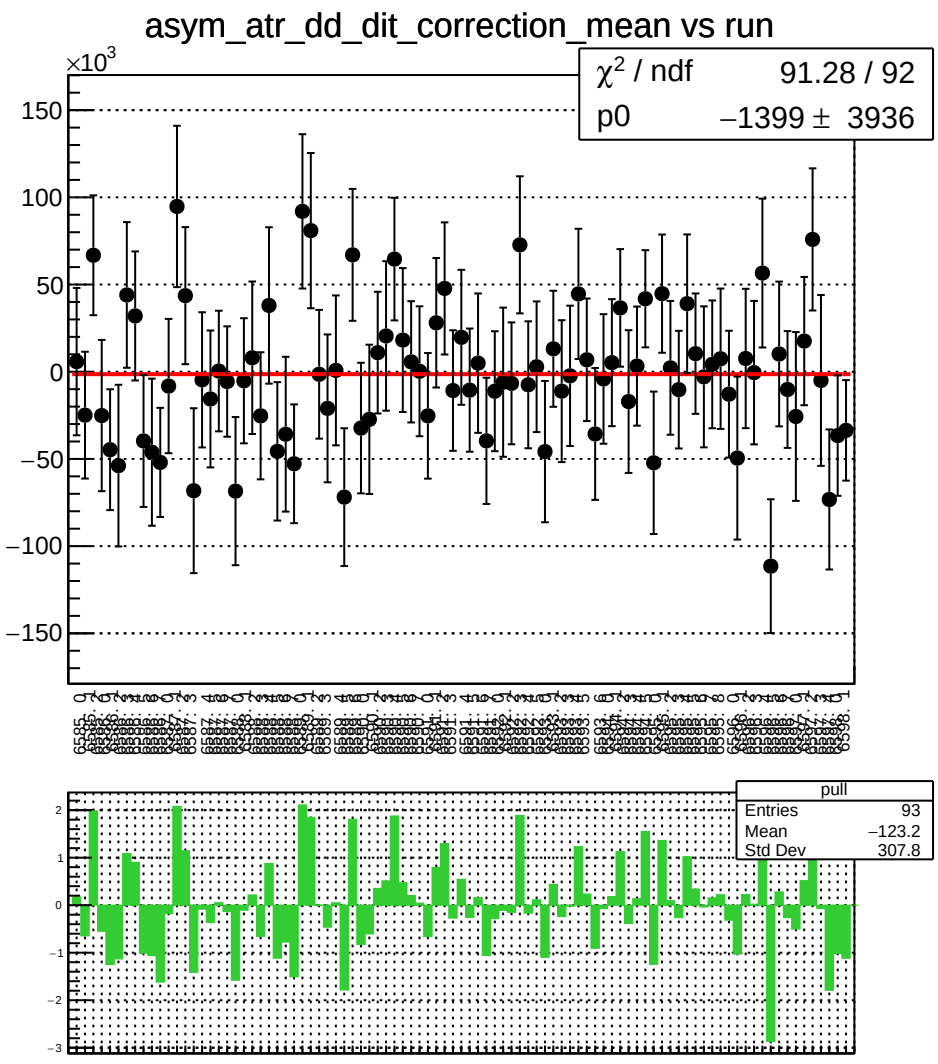

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.71 / 92
p0 −1806 ± 3665
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 872.1
Std Dev 0
2
1
0
−1
−2
−3

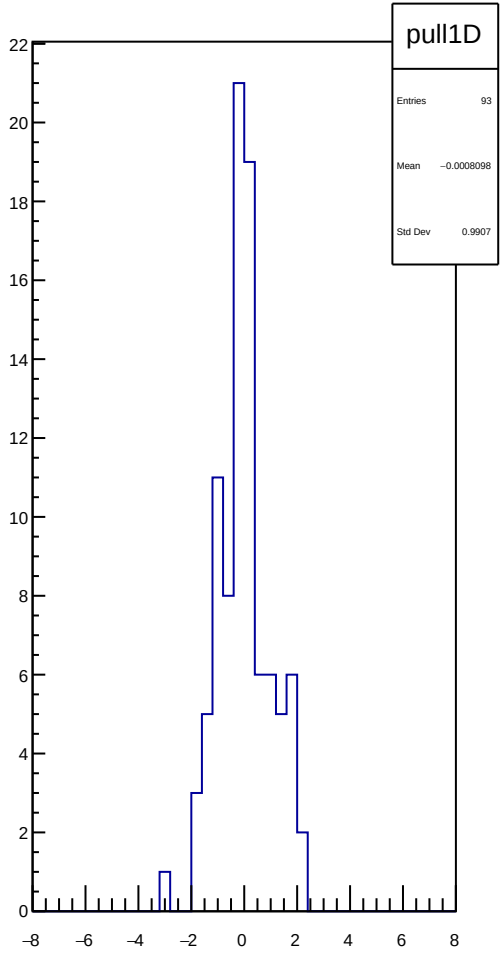

pull1D
Entries 93
Mean 0.0001324
Std Dev 0.9931
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

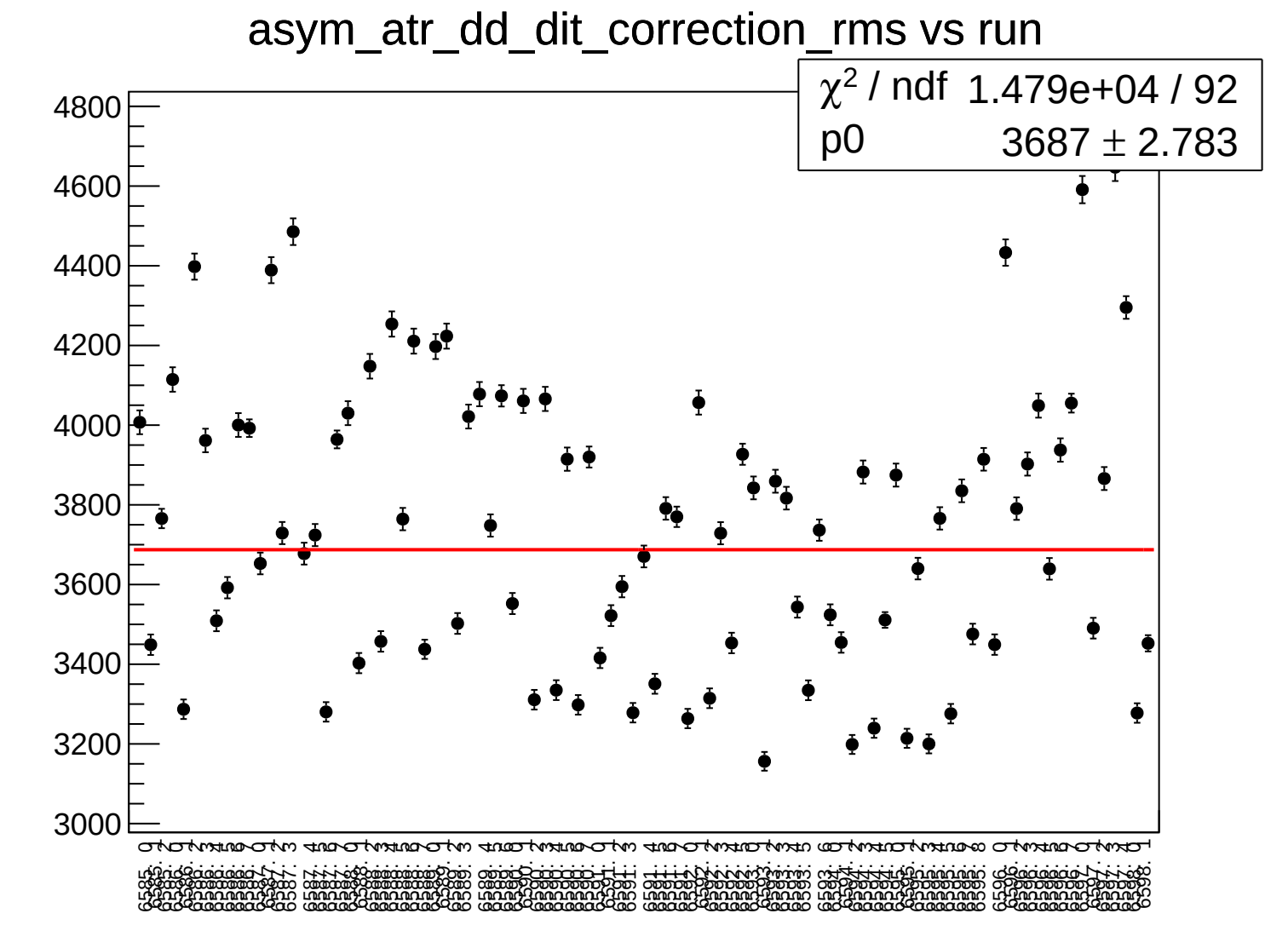

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.482e+04 / 92
p0 3434 ± 2.591
4400
4200
4000
3800
3600
3400
3200
3000
2800

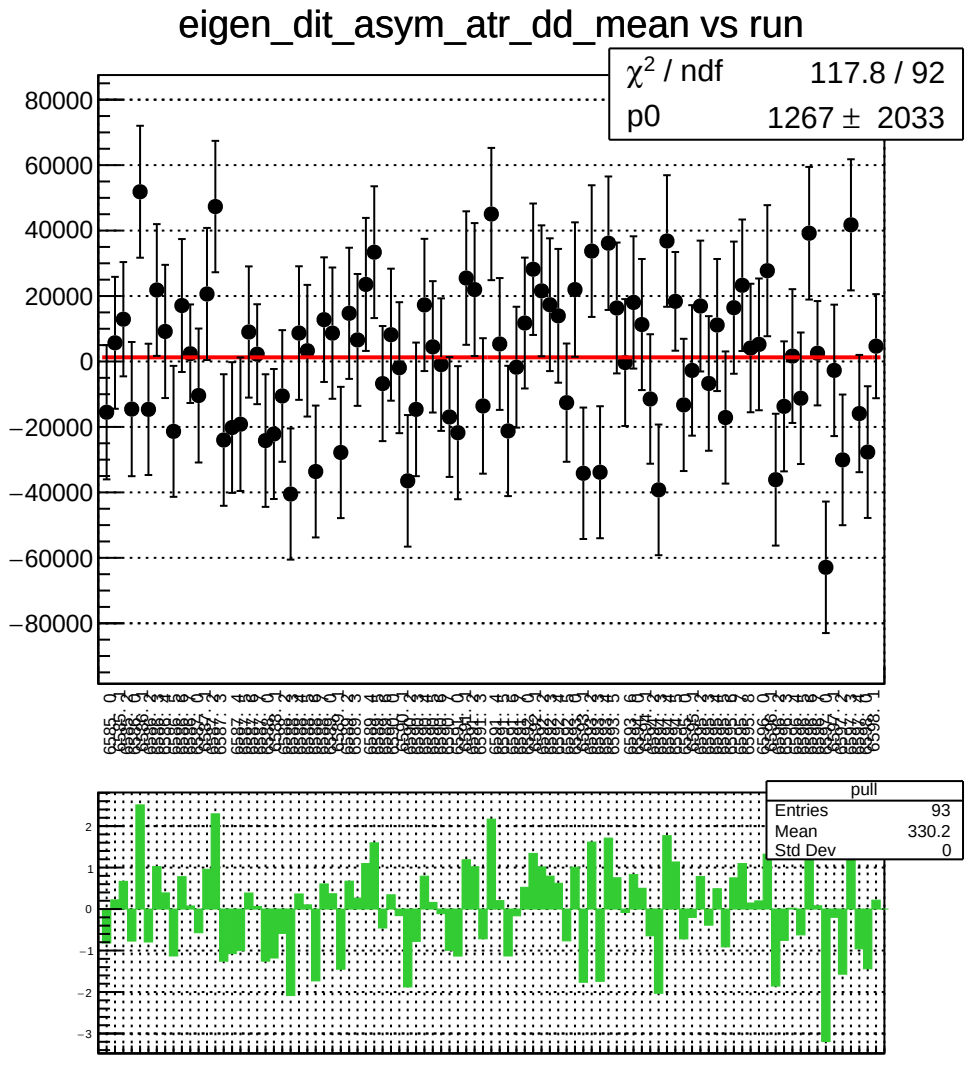

dit_asym_atr_dd_mean vs run
χ² / ndf 117.8 / 92
p0 1267 ± 2033
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 330.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.001666
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

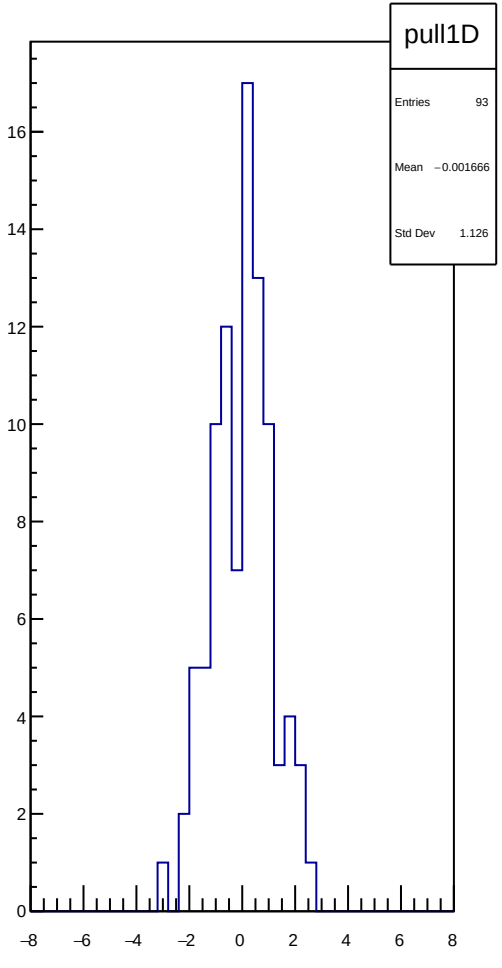

dit_asym_atr_dd_rms vs run
χ^2 / ndf 120.8 / 92
p0 1913 ± 1.438
1980
1960
1940
1920
1900
1880
1860

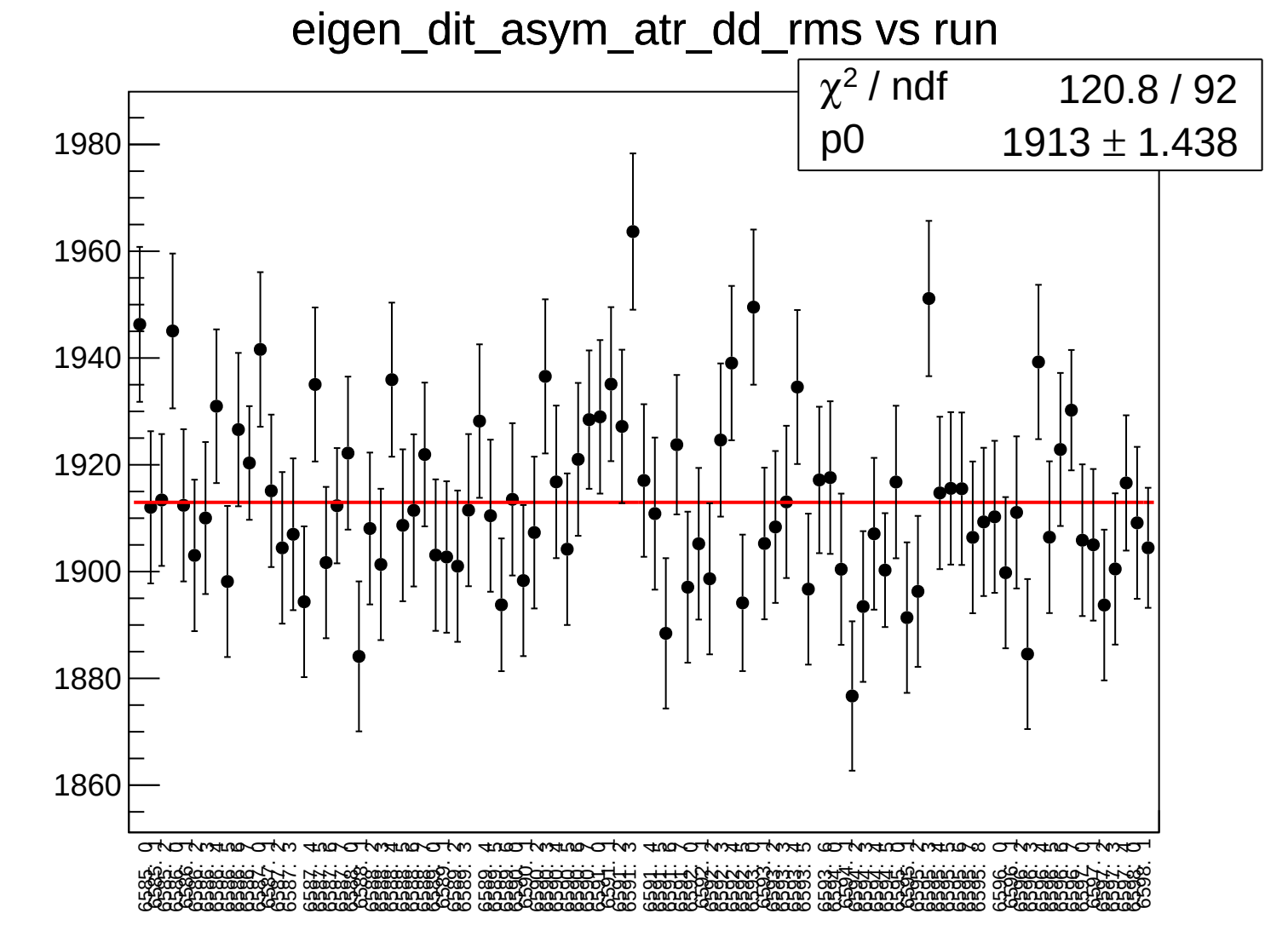

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.28 / 92
p0 −1399 ± 3936
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −123.2
Std Dev 307.8
2
1
0
−1
−2
−3

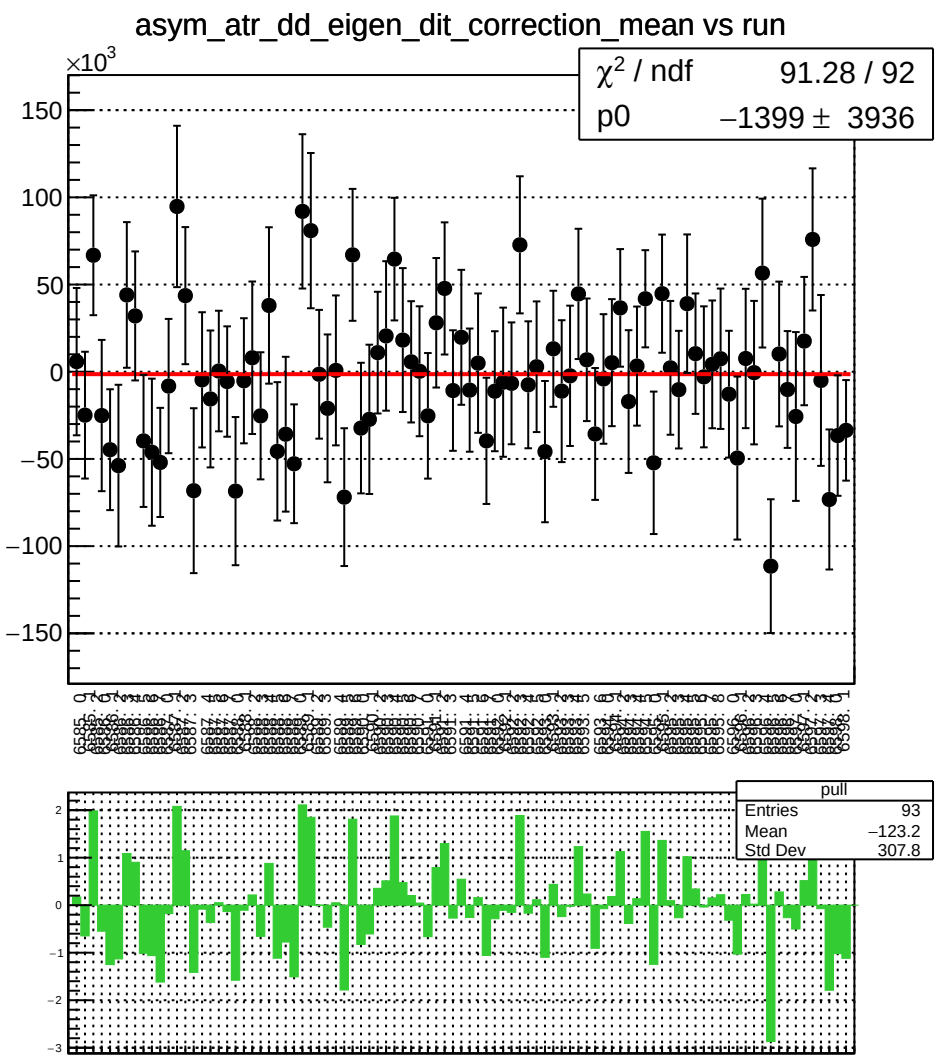

pull1D
Entries 93
Mean −0.0008098
Std Dev 0.9907
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

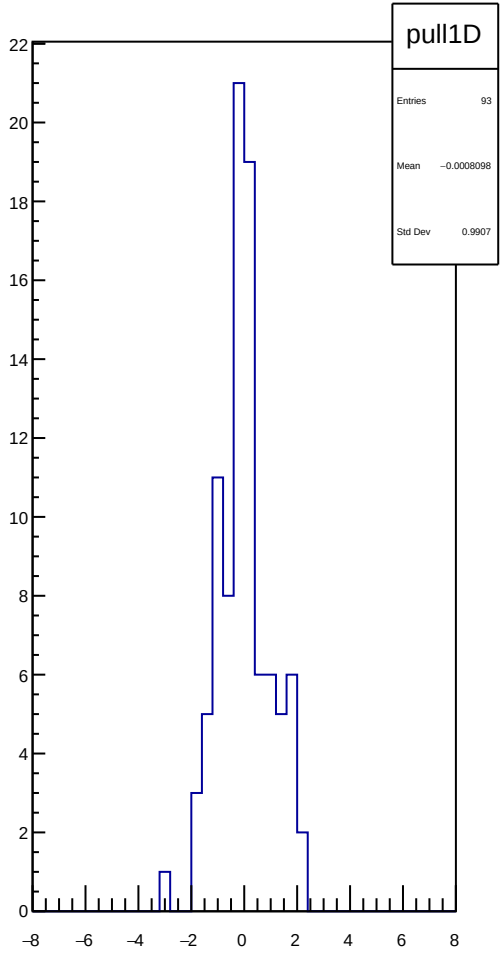

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1.479e+04 / 92
p0 3687 ± 2.783
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

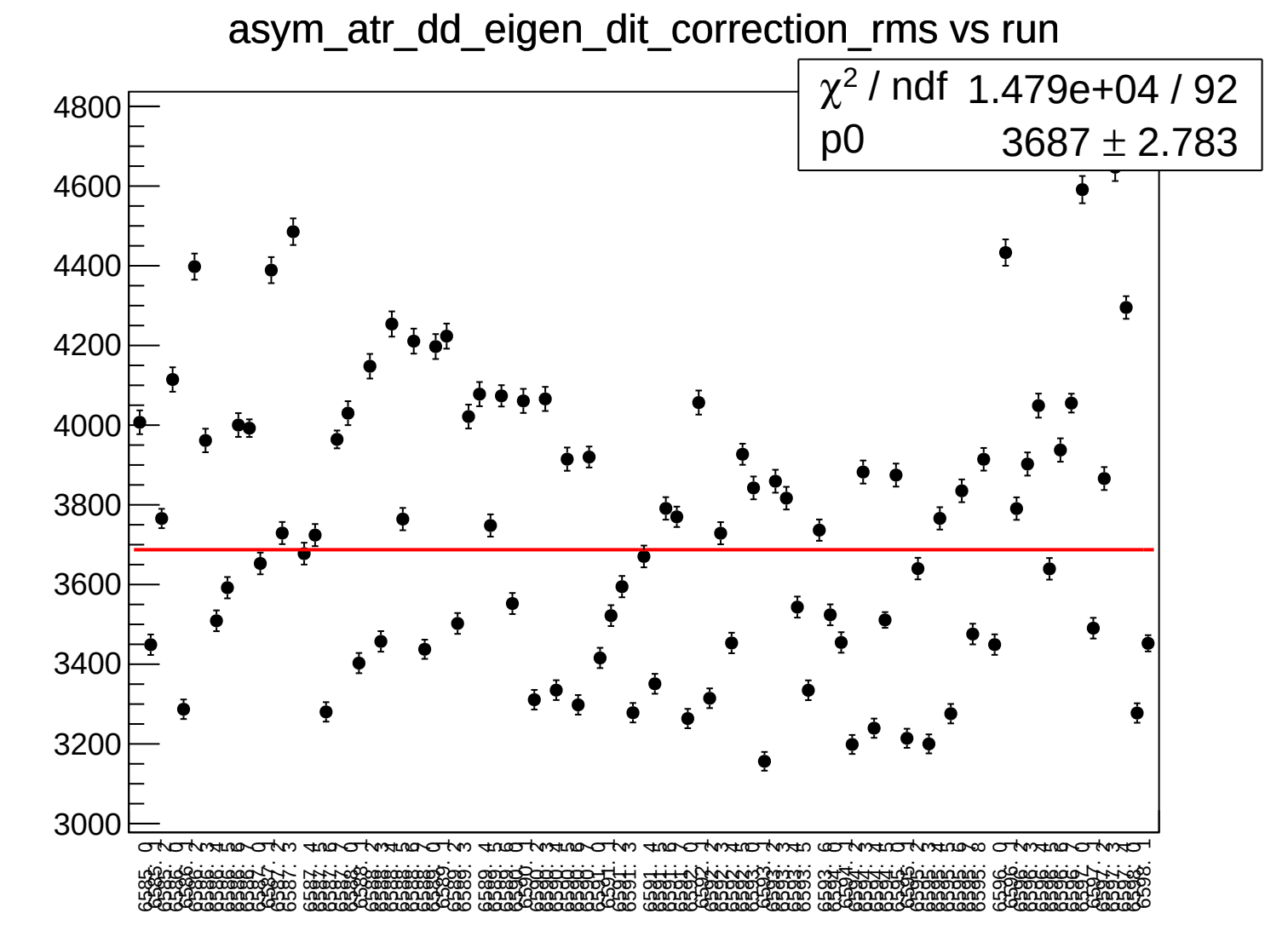

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 117.8 / 92
p0 1267 ± 2033
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 330.2
Std Dev 0
2
1
0
−1
−2
−3

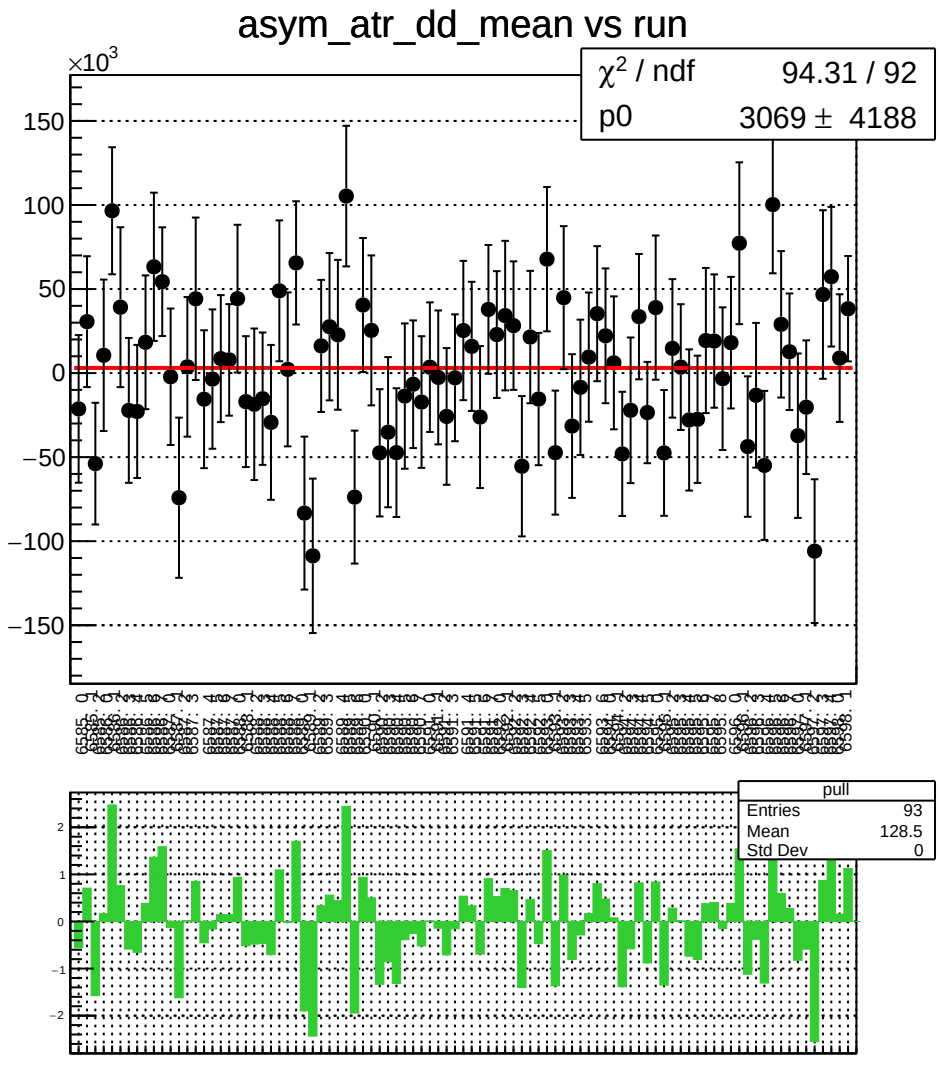

pull1D
Entries 93
Mean −0.001666
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

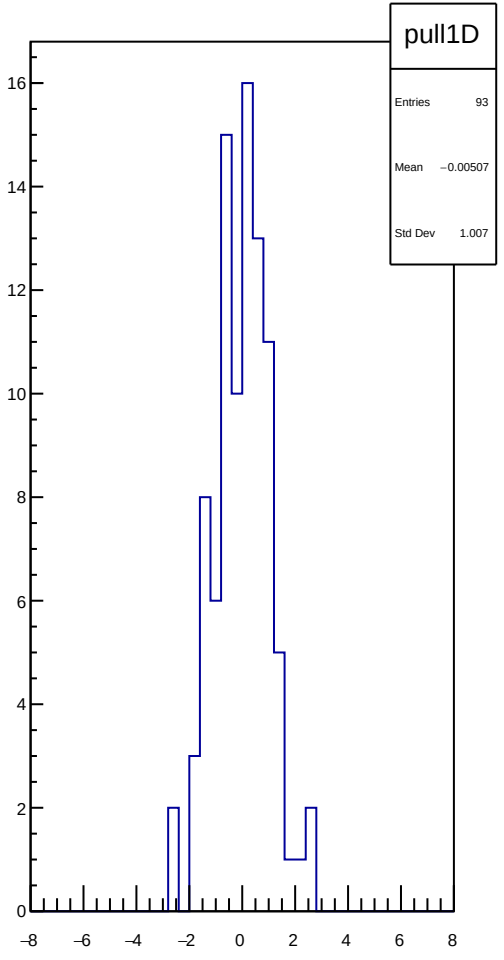

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 120.8 / 92
p0 1913 ± 1.438
1980
1960
1940
1920
1900
1880
1860

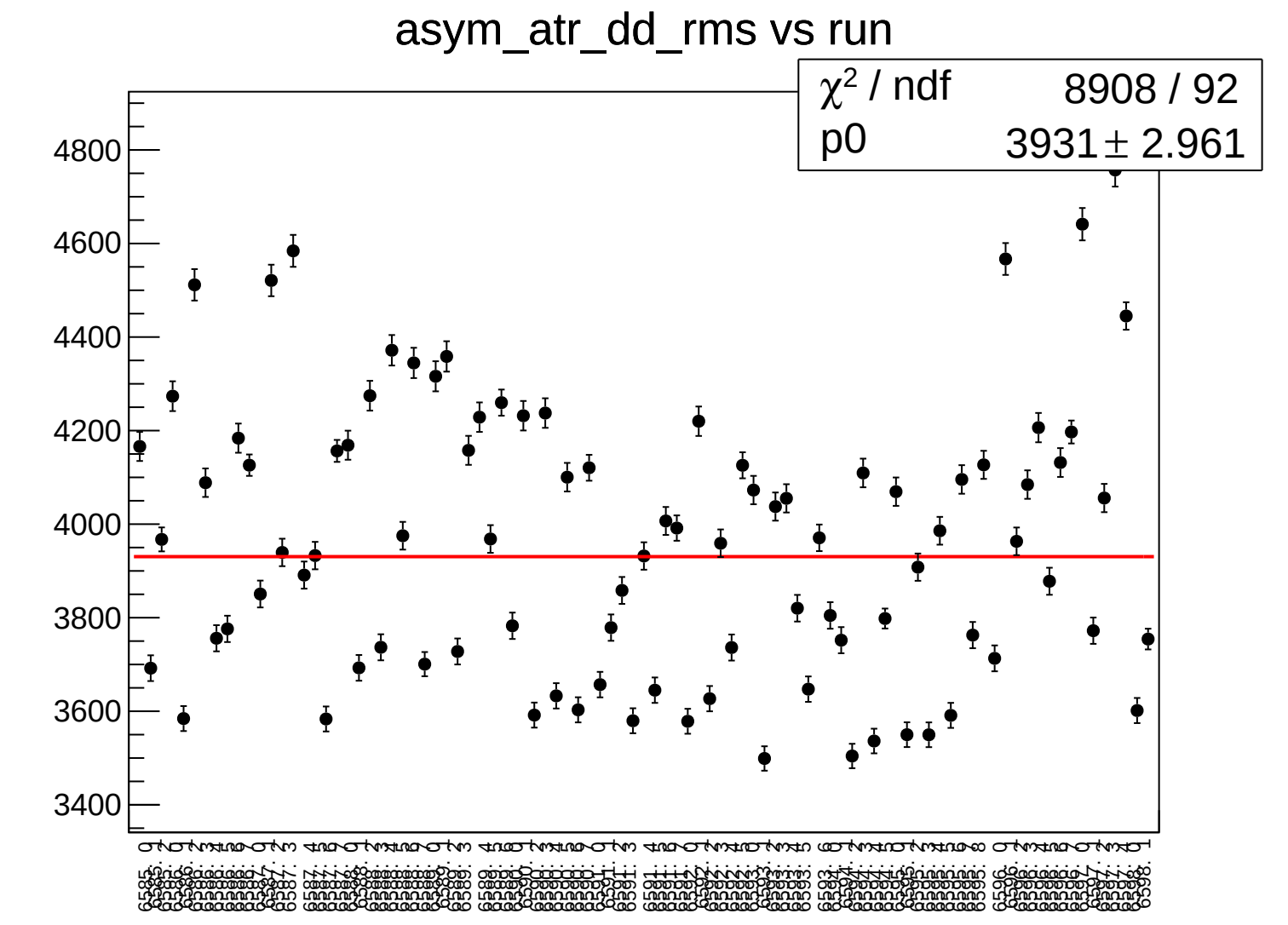

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.28 / 92
p0 −1399 ± 3936
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −123.2
Std Dev 307.8
2
1
0
−1
−2
−3

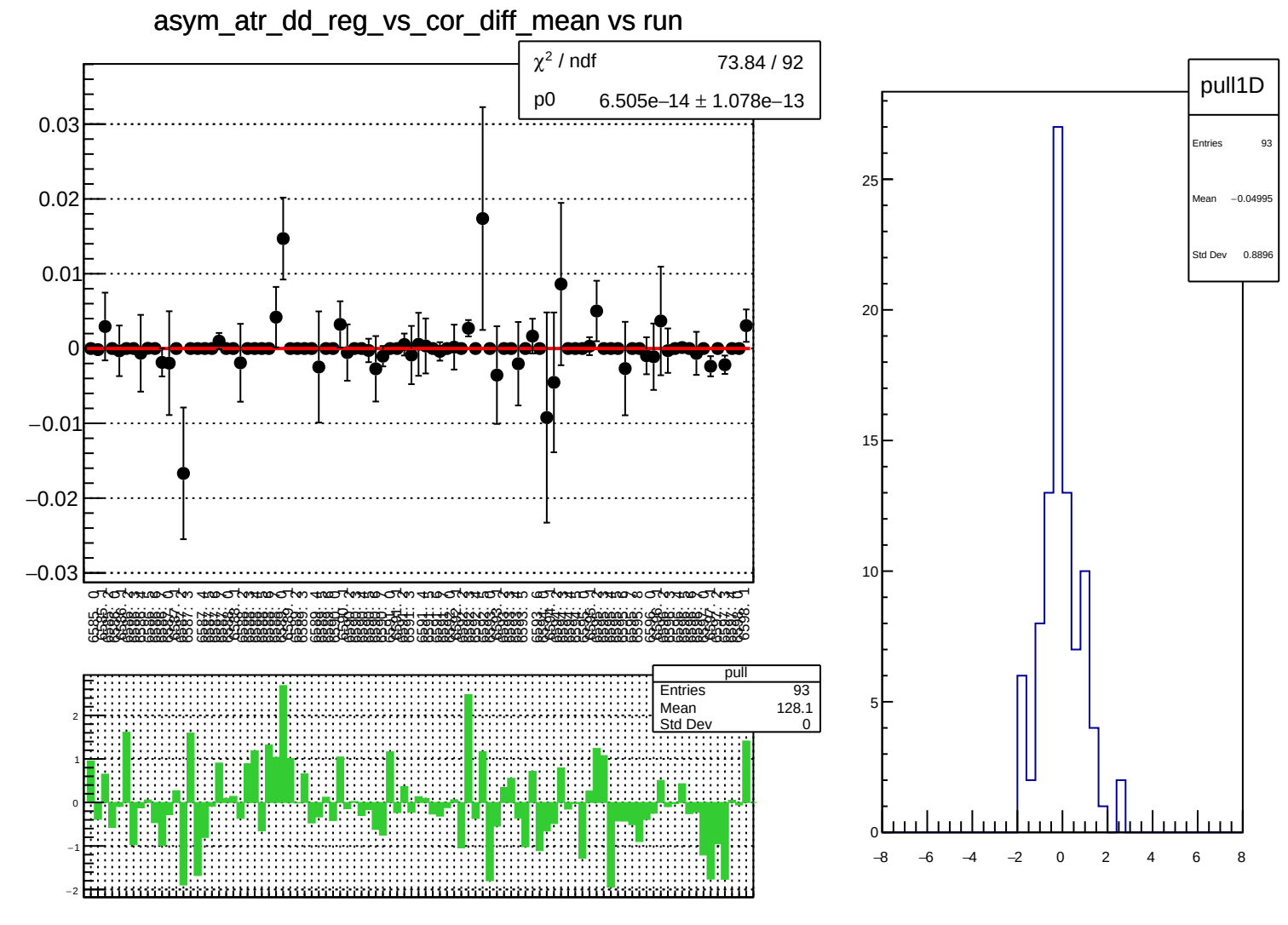

pull1D
Entries 93
Mean −0.0008098
Std Dev 0.9907
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

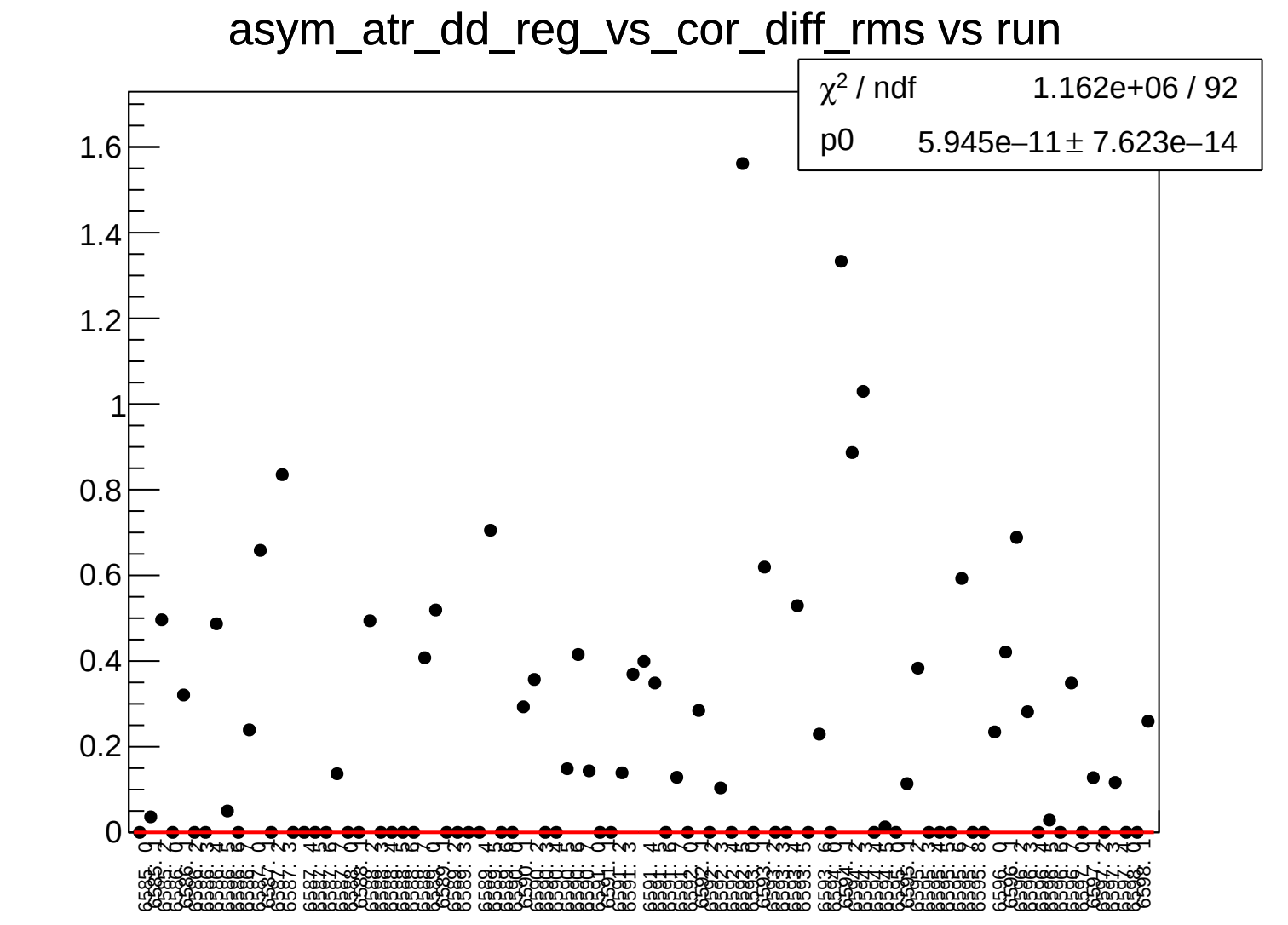

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.479e+04 / 92
p0 3687 ± 2.783
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

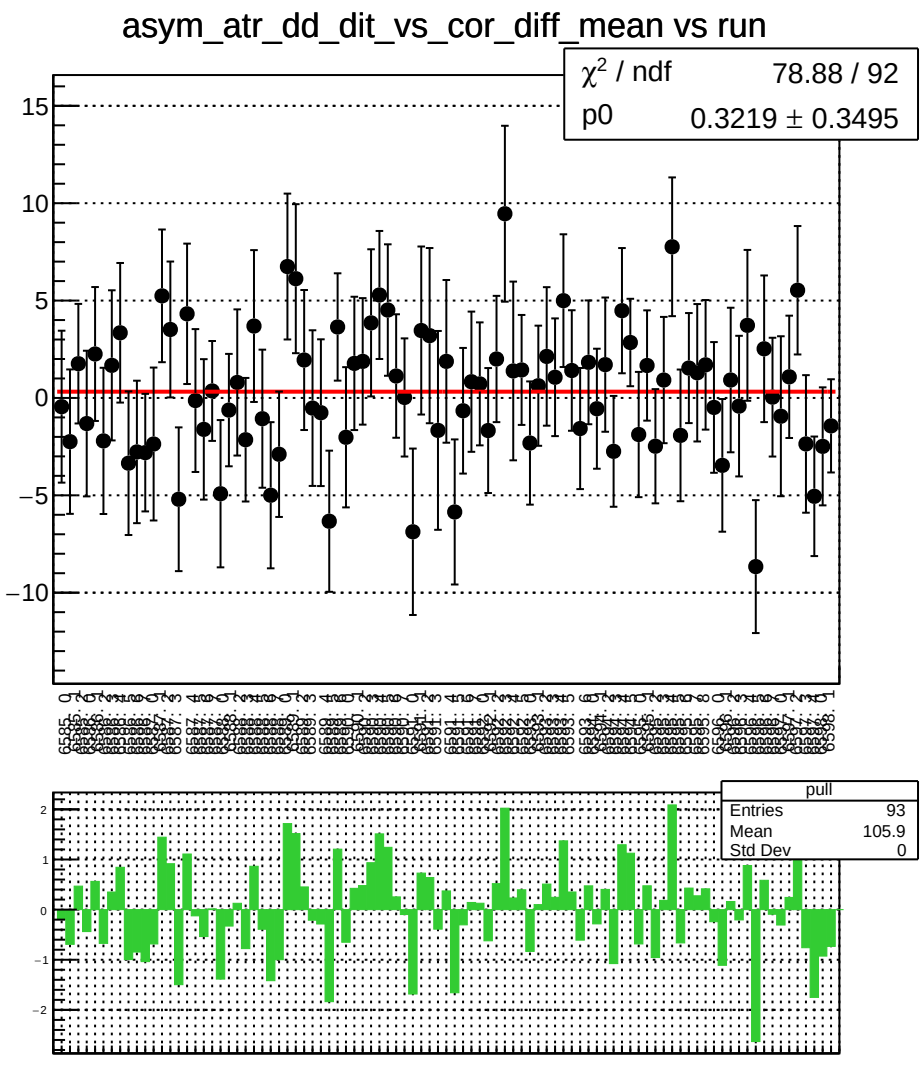

asym_atr_dd_mean vs run
×10^3
χ² / ndf 94.31 / 92
p0 3069 ± 4188
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 128.5
Std Dev 0
2
1
0
−1
−2

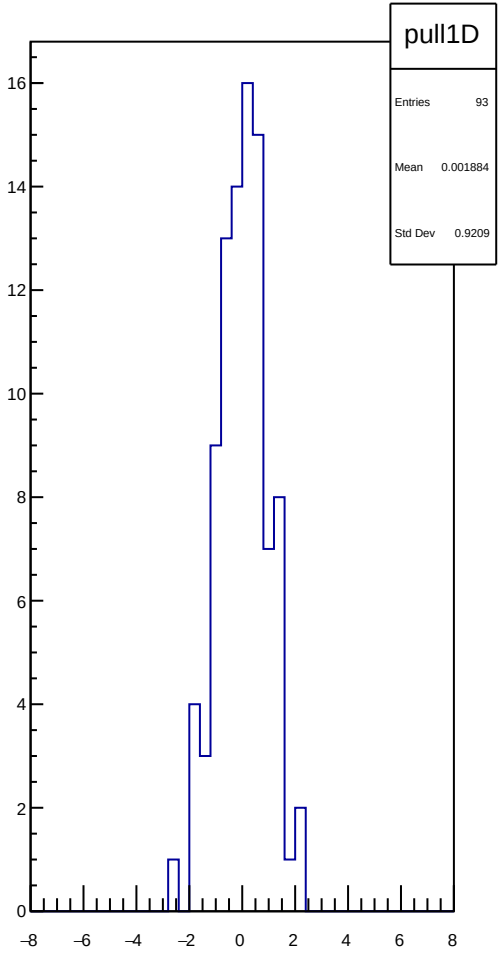

pull1D
Entries 93
Mean −0.00507
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

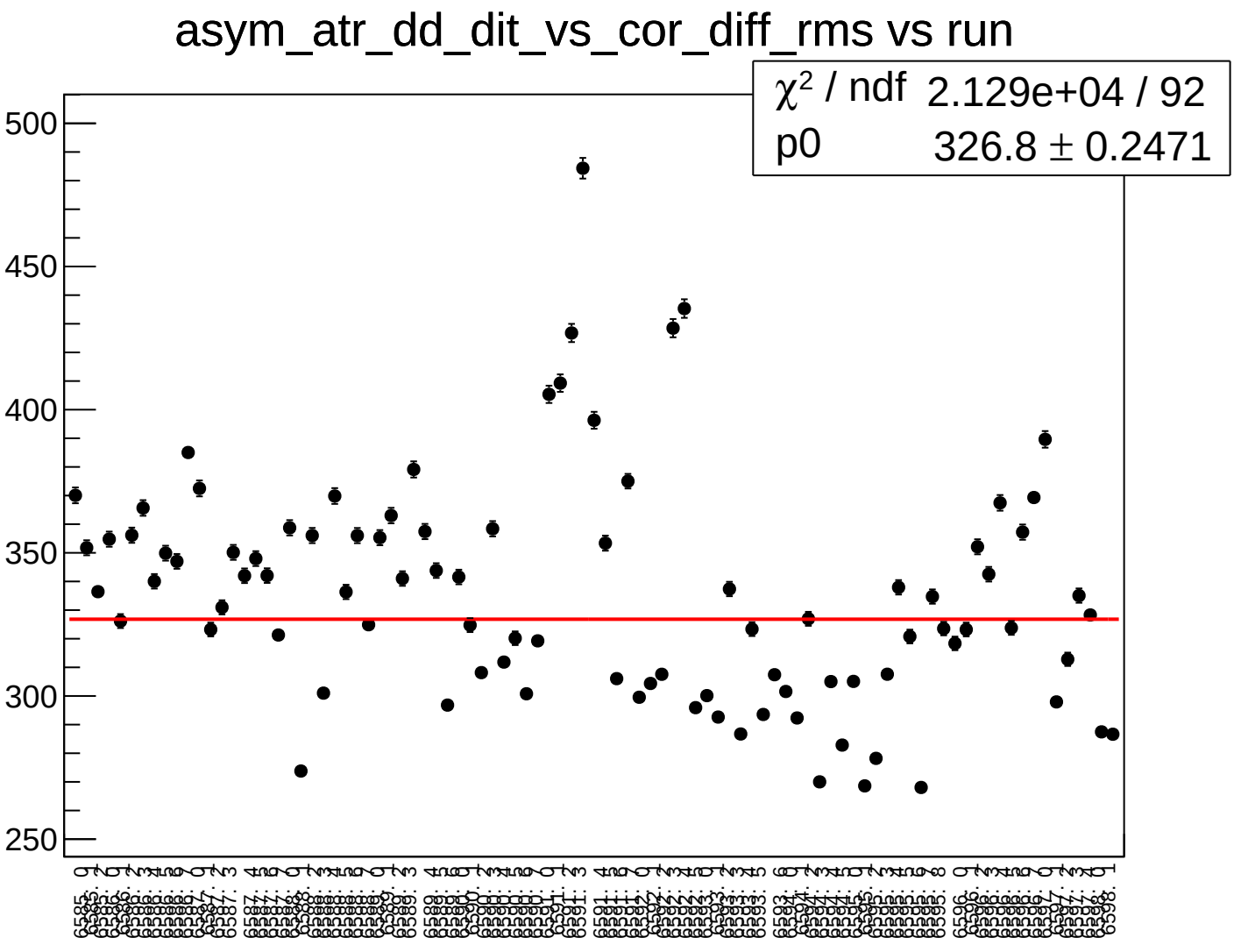

asym_atr_dd_rms vs run
χ² / ndf 8908 / 92
p0 3931 ± 2.961
4800
4600
4400
4200
4000
3800
3600
3400

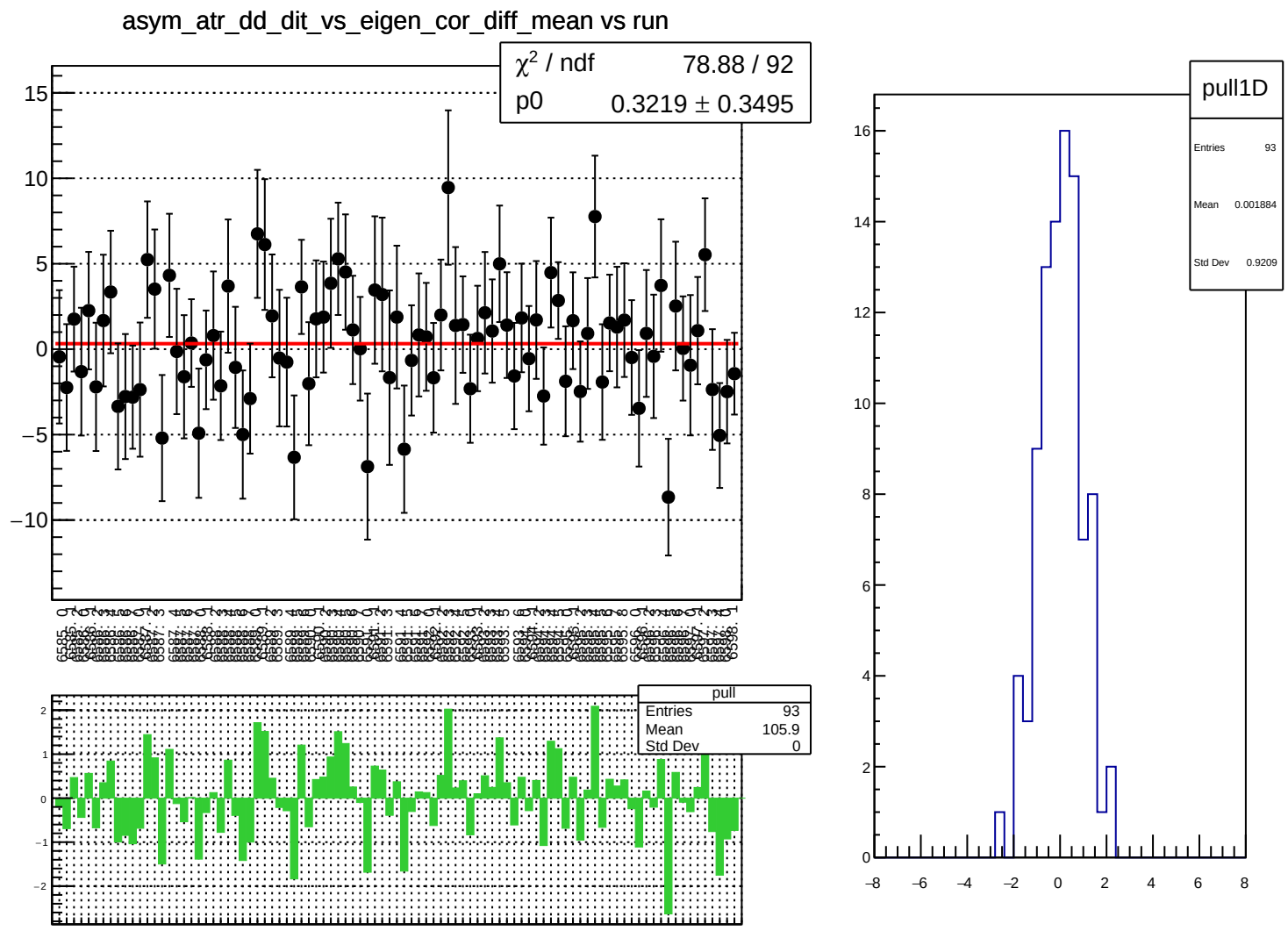

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.84 / 92
p0 6.505e−14 ± 1.078e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 128.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.04995
Std Dev 0.8896
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

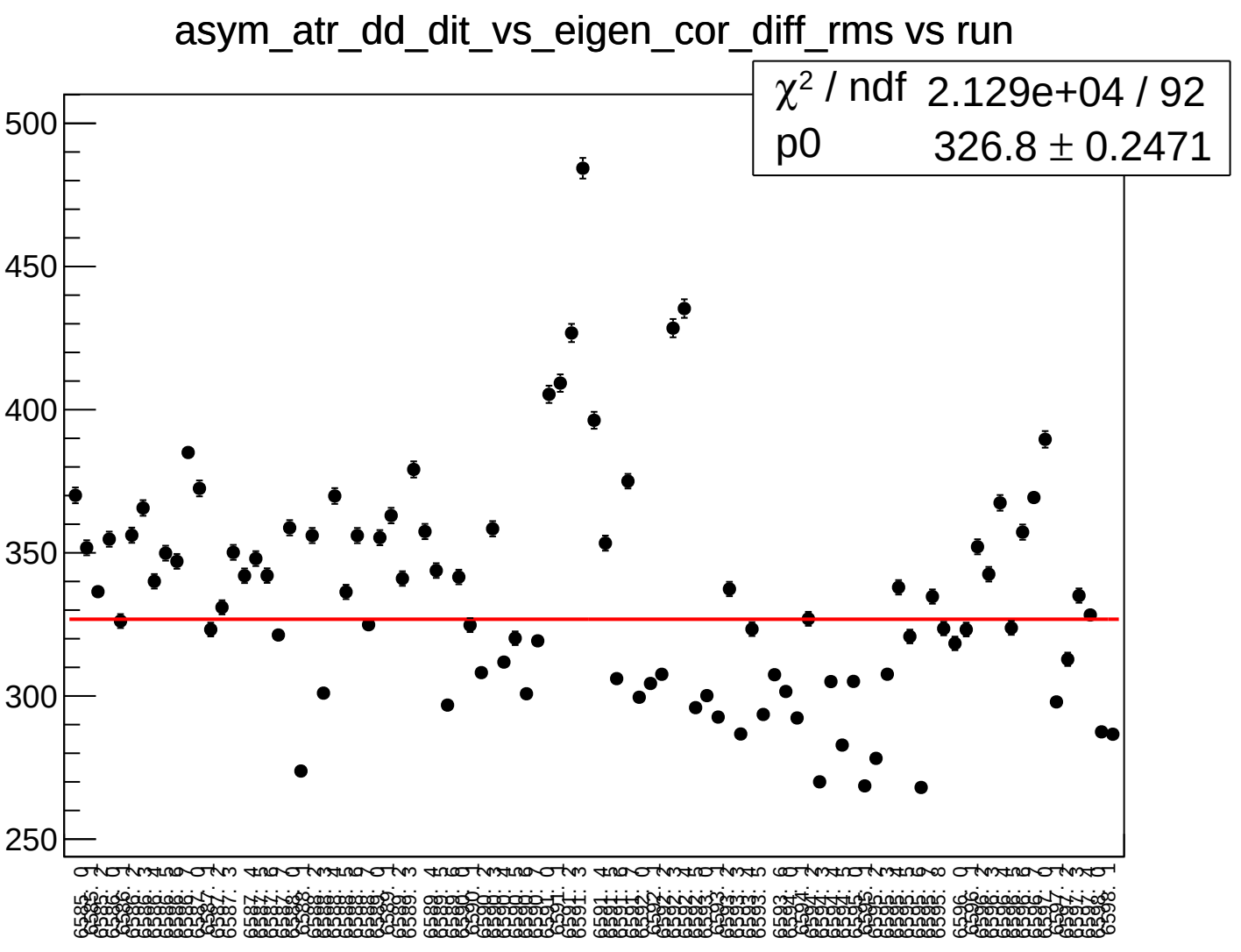

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.162e+06 / 92
p0 5.945e−11 ± 7.623e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

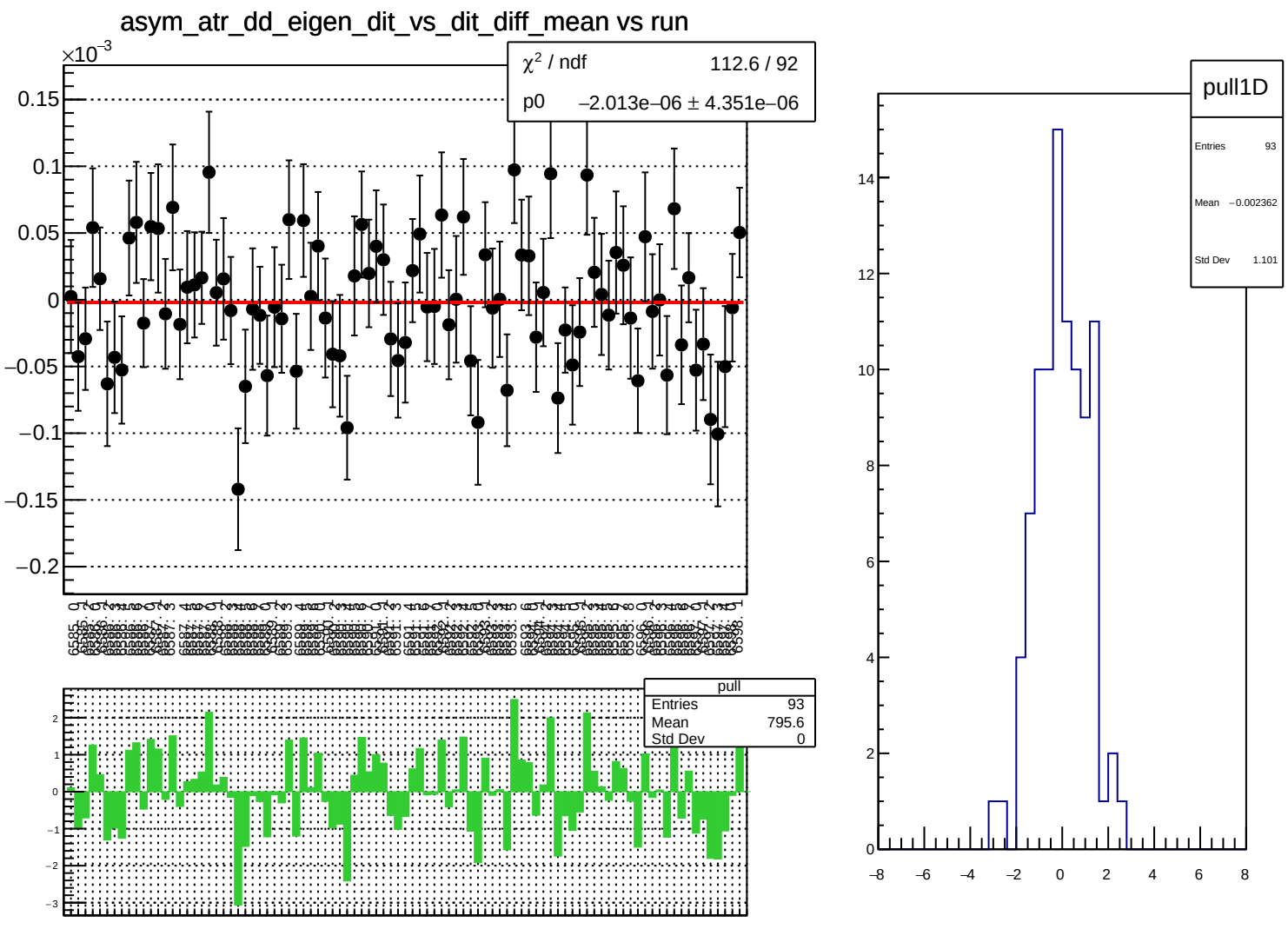

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.88 / 92
p0 0.3219 ± 0.3495
pull
Entries 93
Mean 105.9
Std Dev 0

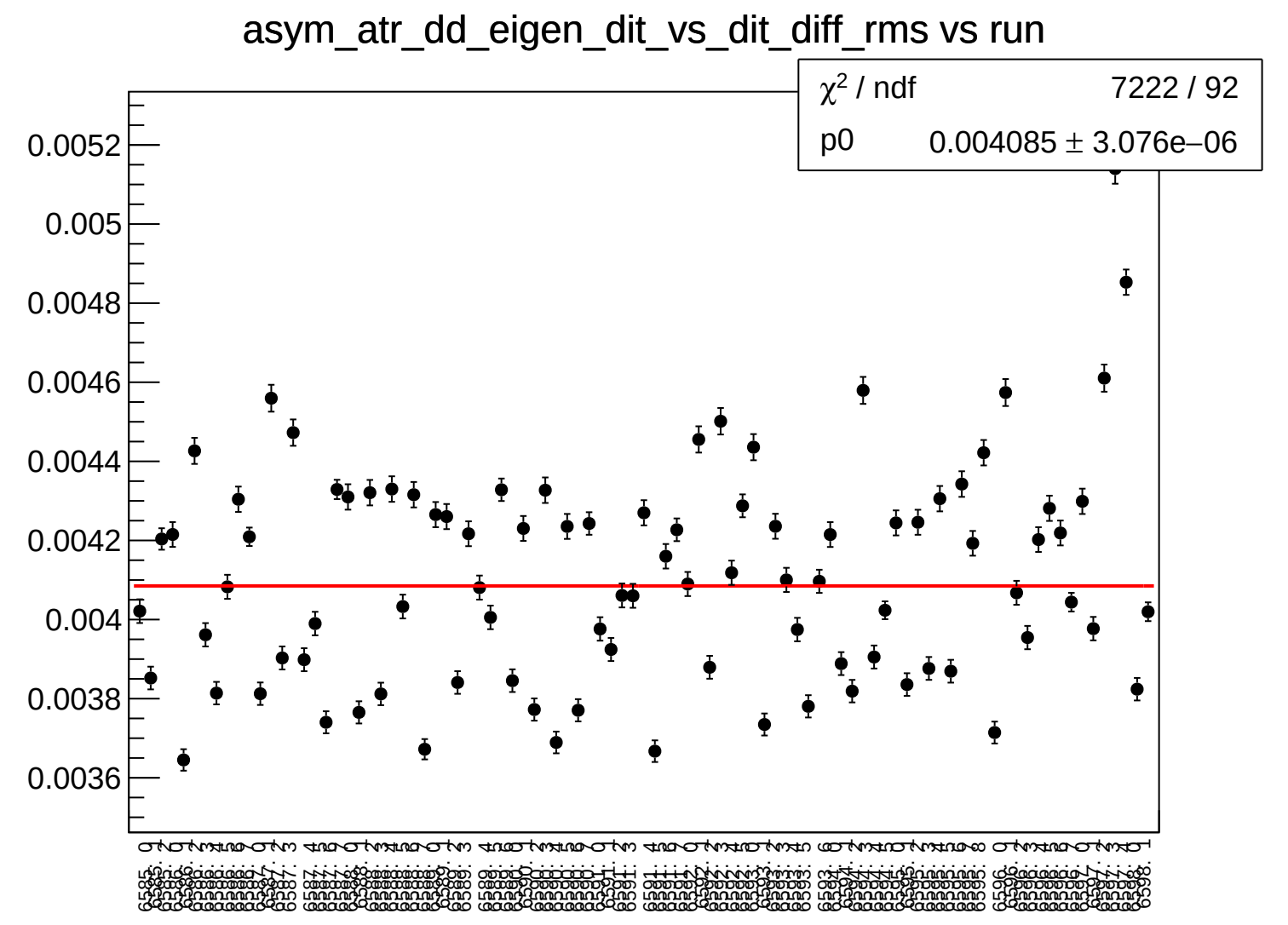

pull1D
Entries 93
Mean 0.001884
Std Dev 0.9209

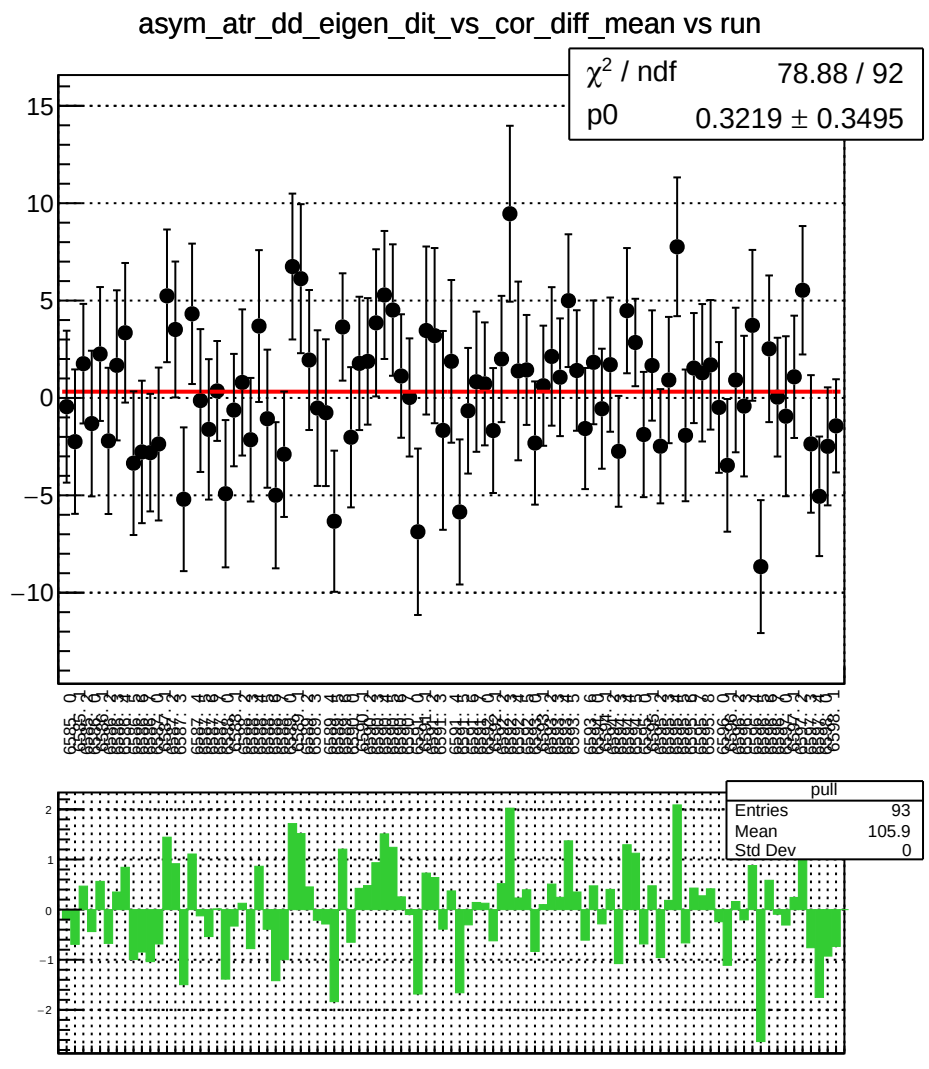

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.129e+04 / 92
p0 326.8 ± 0.2471
500
450
400
350
300
250

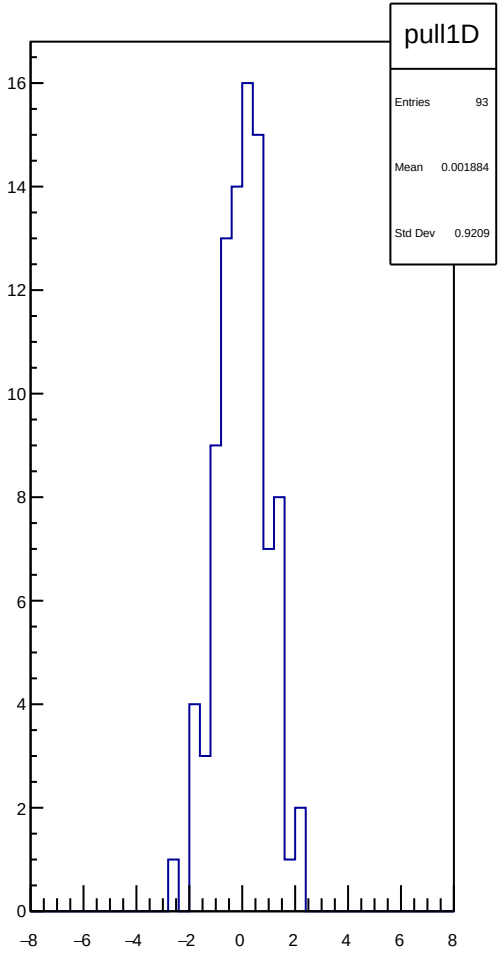

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.88 / 92
p0 0.3219 ± 0.3495
pull
Entries 93
Mean 105.9
Std Dev 0
pull1D
Entries 93
Mean 0.001884
Std Dev 0.9209

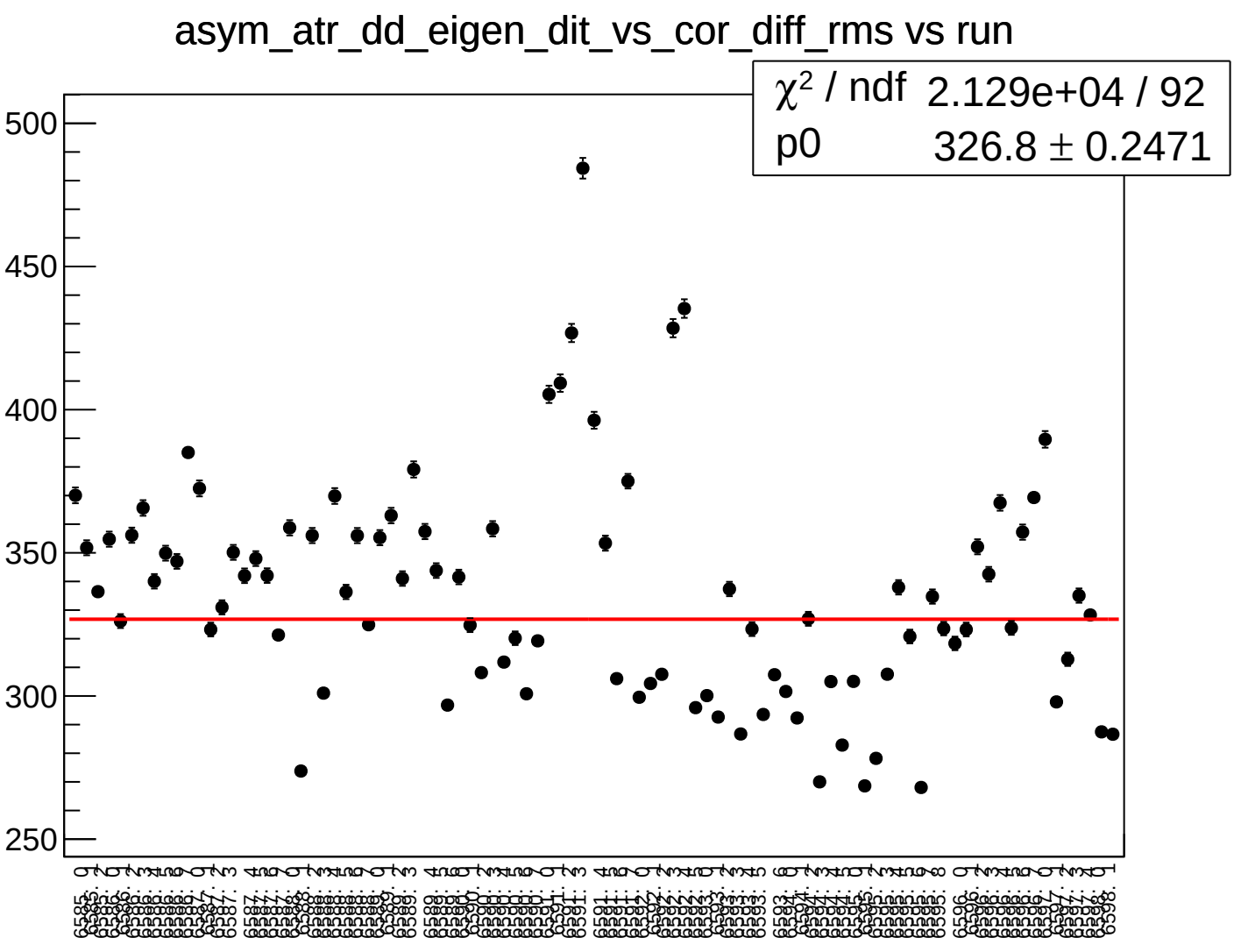

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.129e+04 / 92
p0 326.8 ± 0.2471
500
450
400
350
300
250

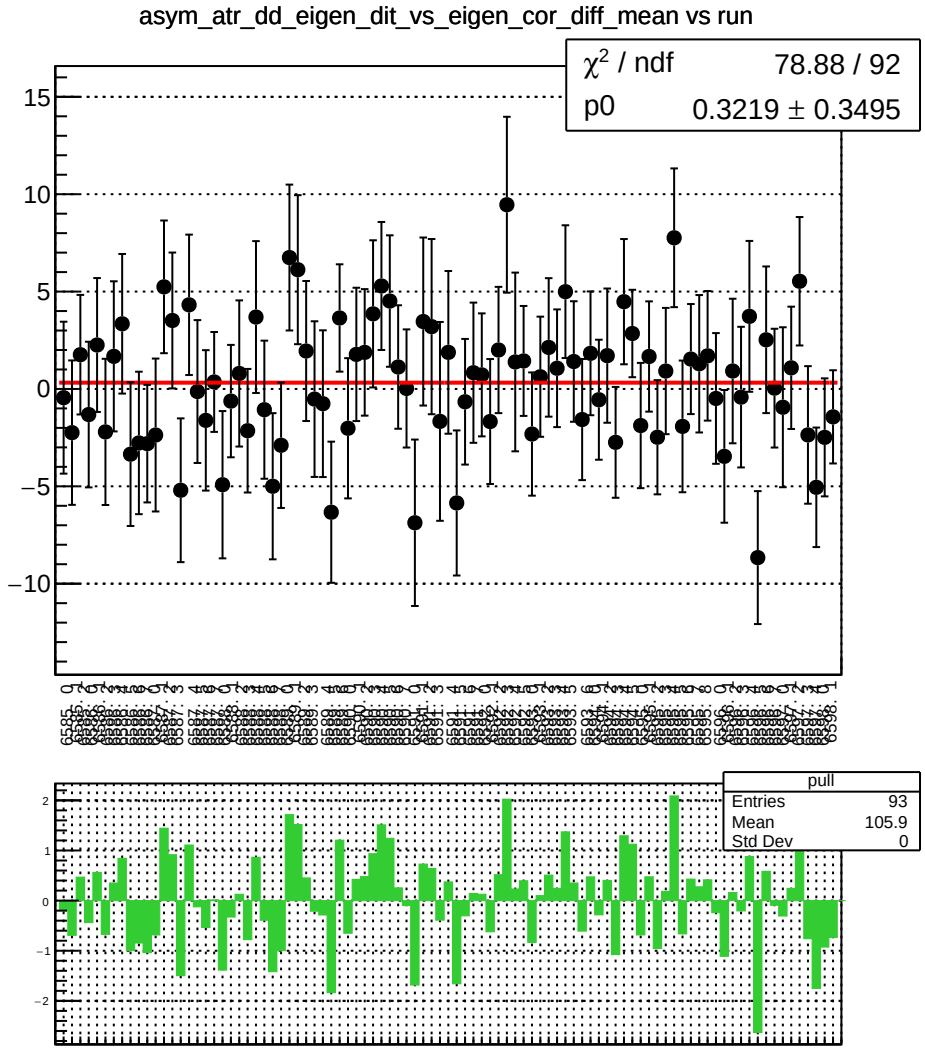

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.6 / 92
p0 −2.013e−06 ± 4.351e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 93
Mean 795.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002362
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

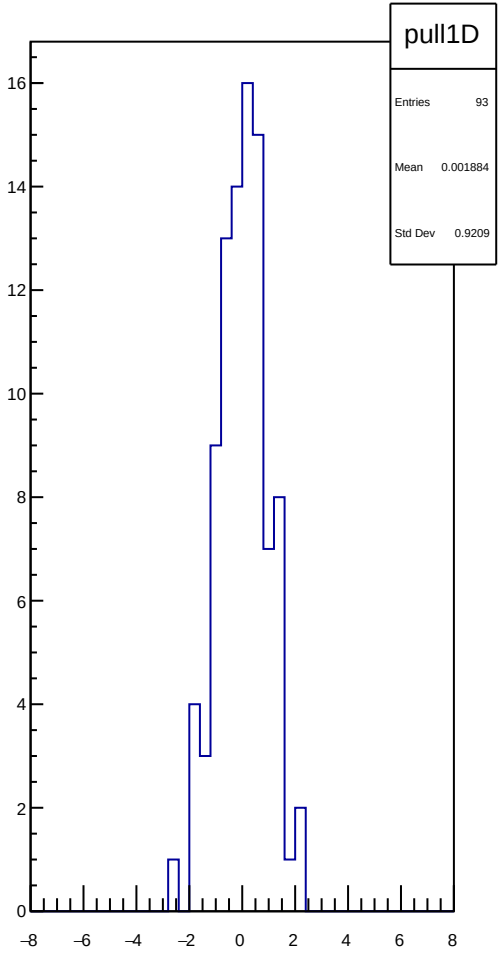

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7222 / 92
p0 0.004085 ± 3.076e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

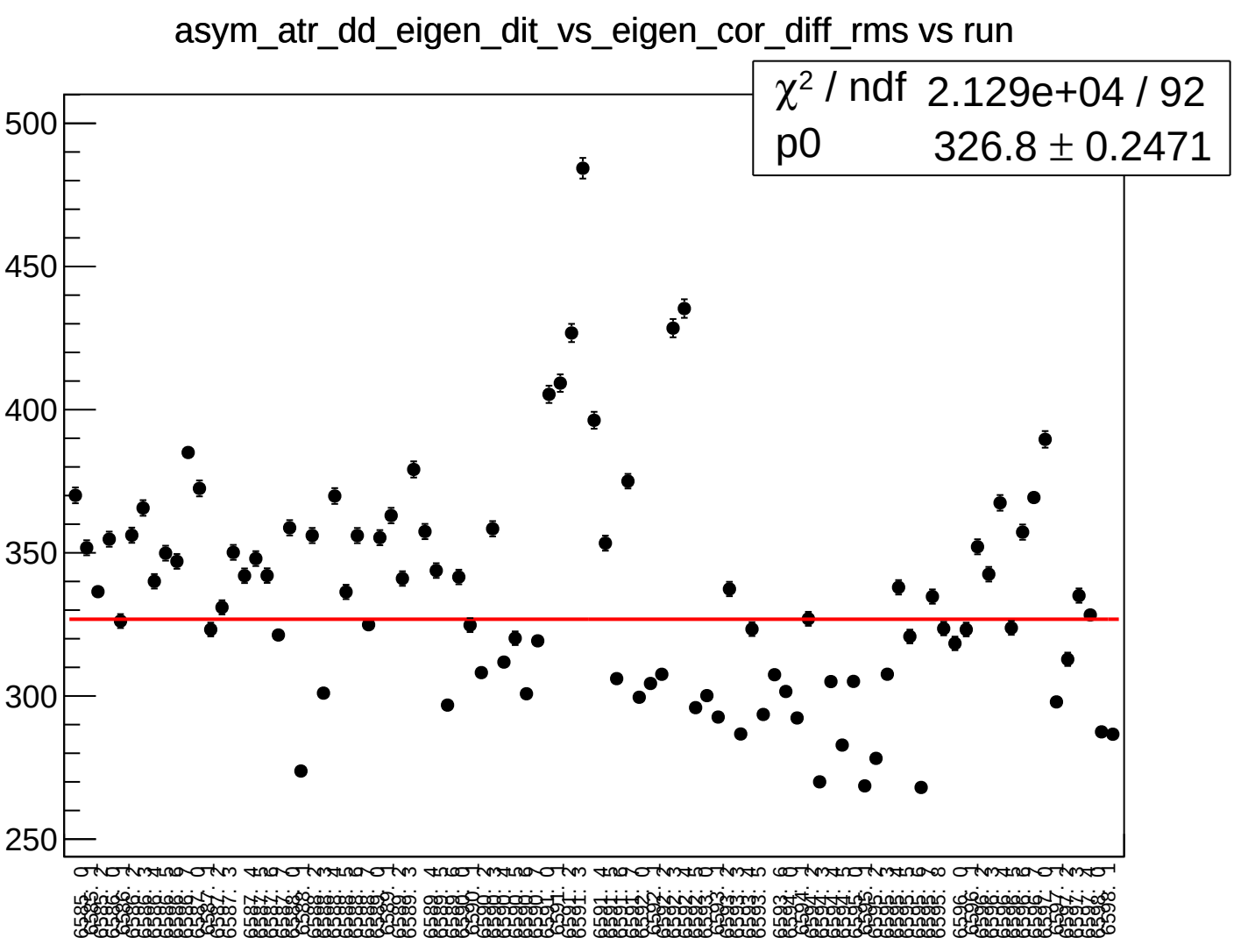

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.88 / 92
p0 0.3219 ± 0.3495
pull
Entries 93
Mean 105.9
Std Dev 0

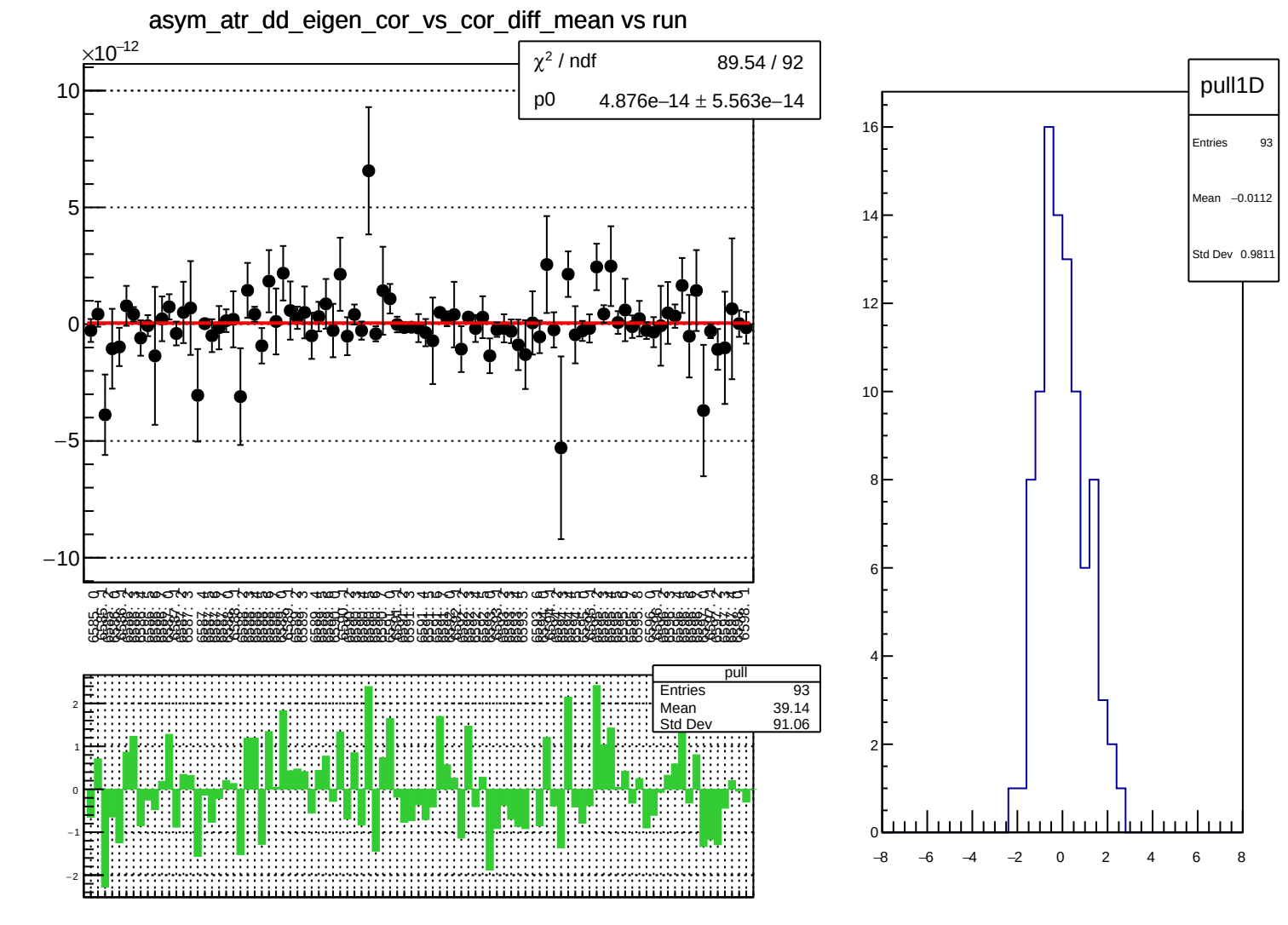

pull1D
Entries 93
Mean 0.001884
Std Dev 0.9209

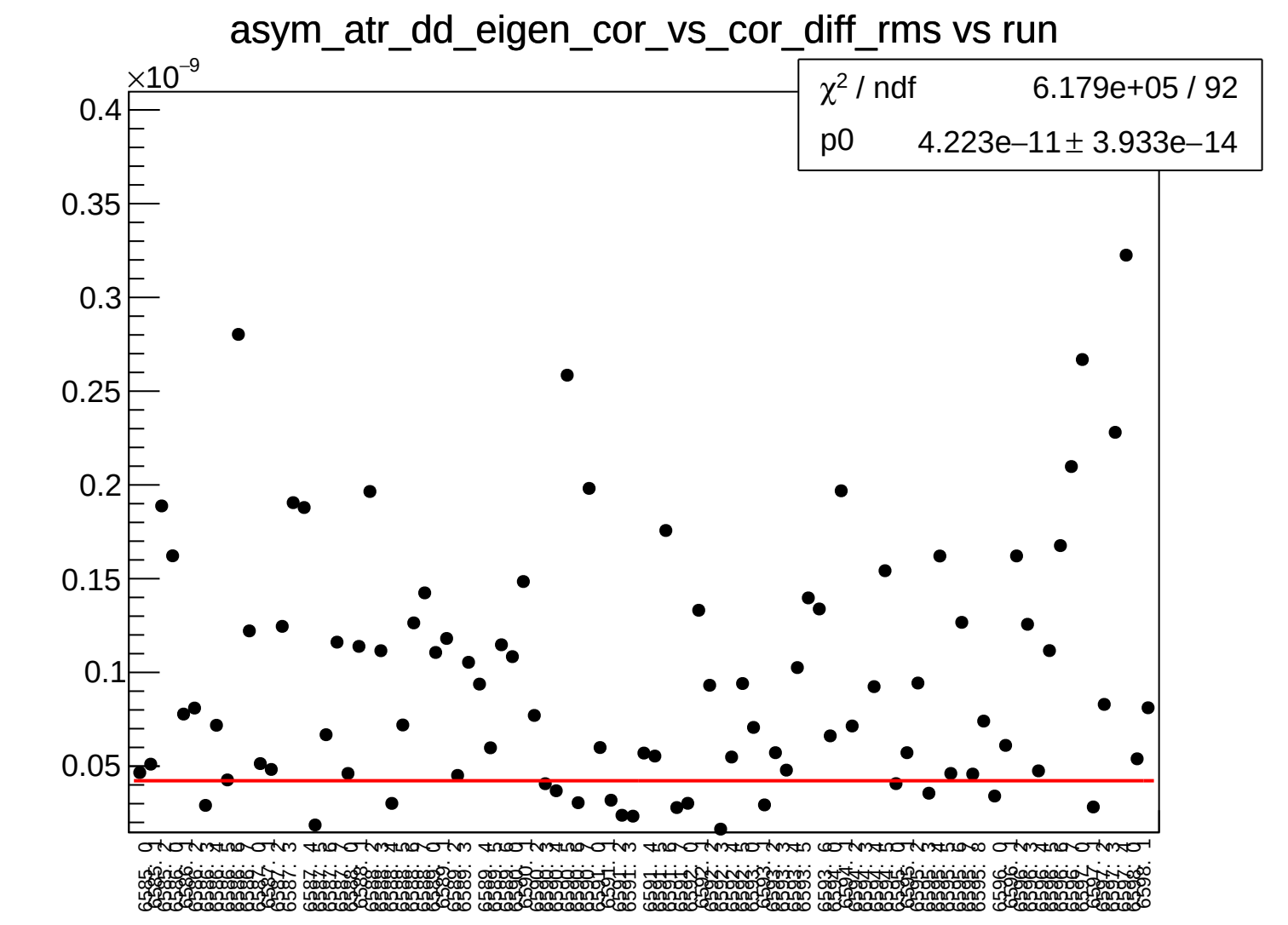

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.129e+04 / 92
p0 326.8 ± 0.2471
500
450
400
350
300
250

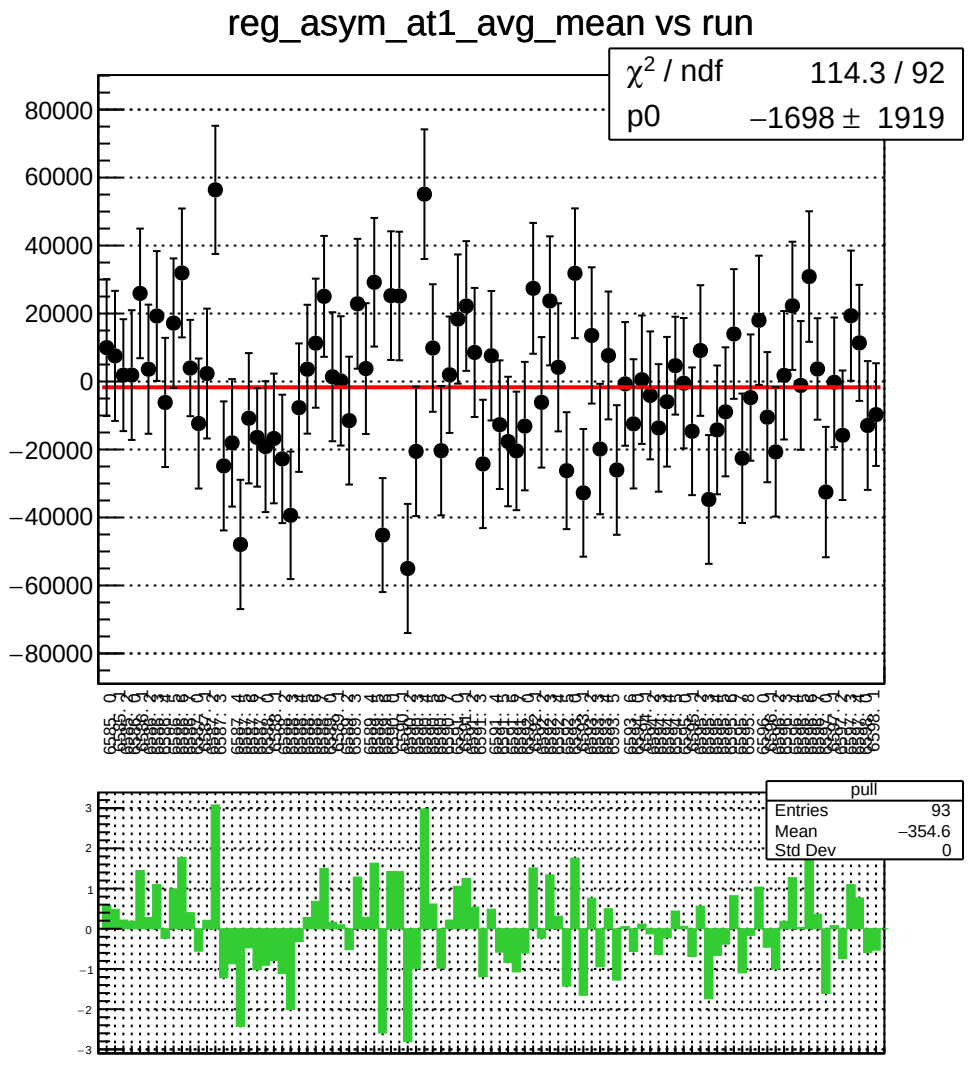

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.88 / 92
p0 0.3219 ± 0.3495
pull
Entries 93
Mean 105.9
Std Dev 0

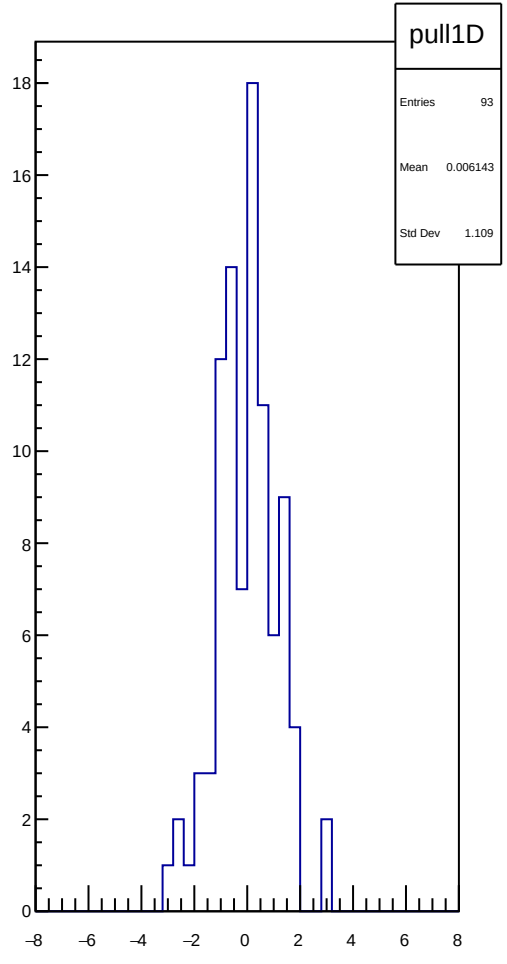

pull1D
Entries 93
Mean 0.001884
Std Dev 0.9209

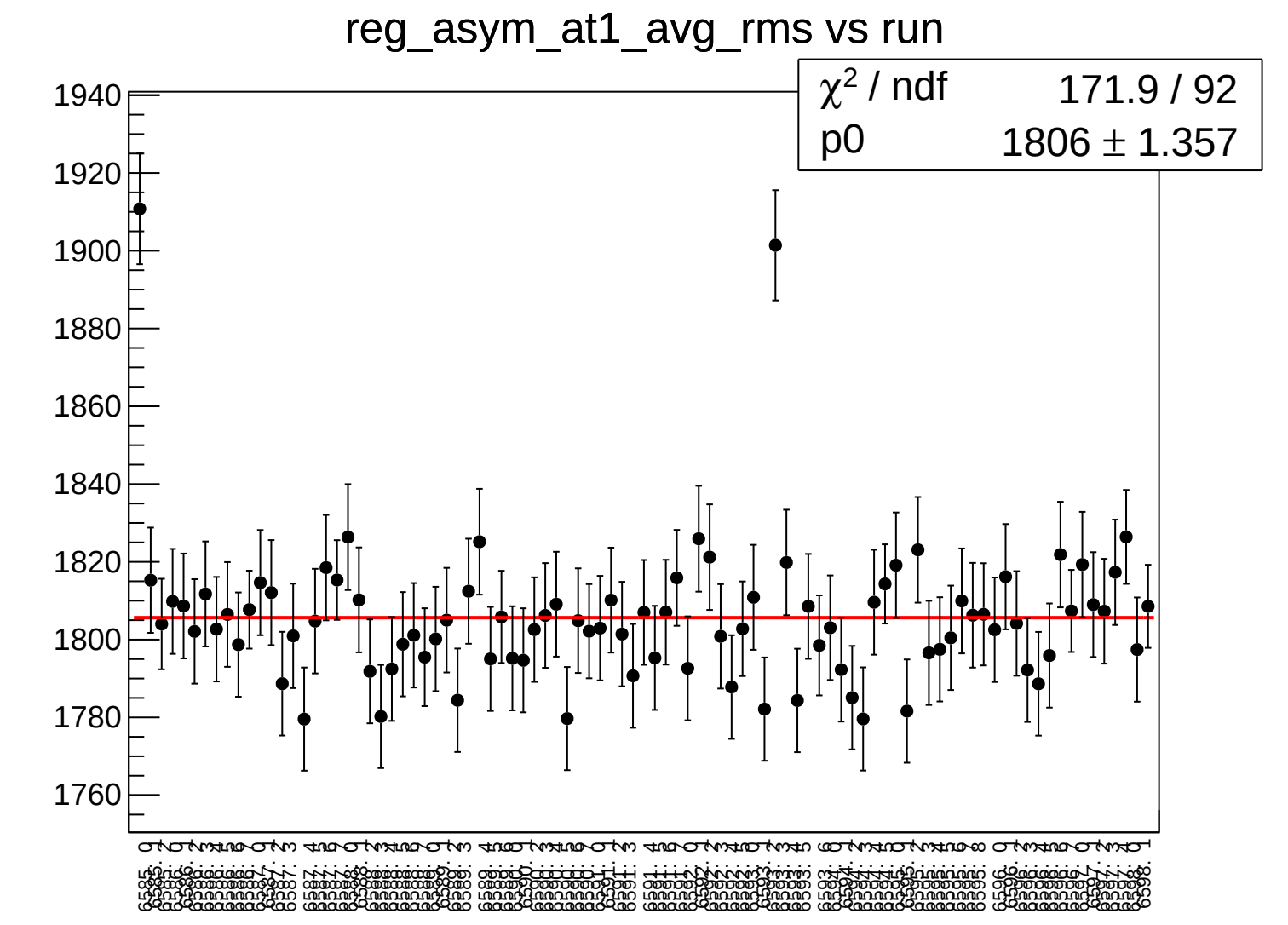

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.129e+04 / 92
p0 326.8 ± 0.2471
500
450
400
350
300
250

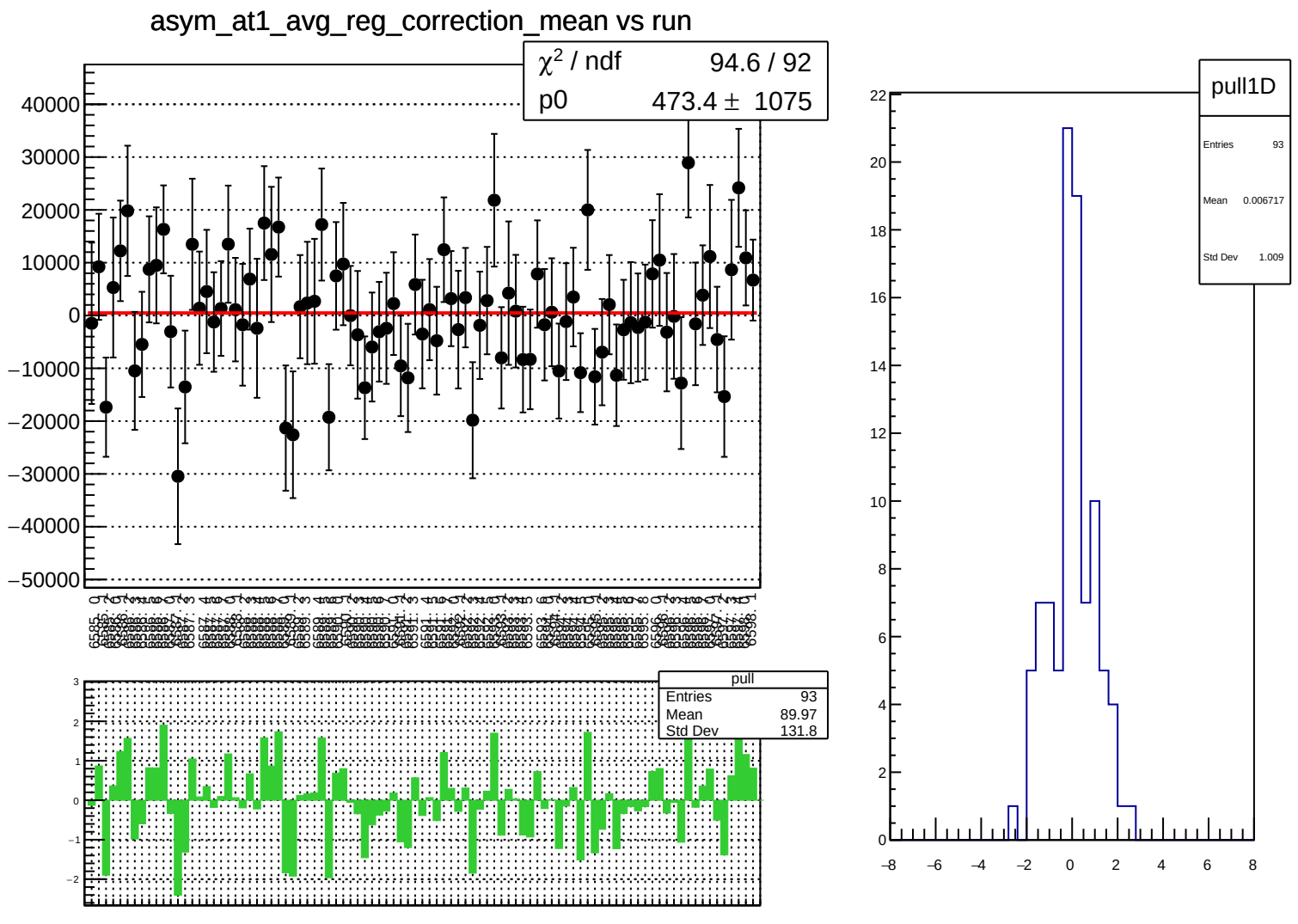

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 89.54 / 92
p0 4.876e−14 ± 5.563e−14
pull
Entries 93
Mean 39.14
Std Dev 91.06
pull1D
Entries 93
Mean −0.0112
Std Dev 0.9811

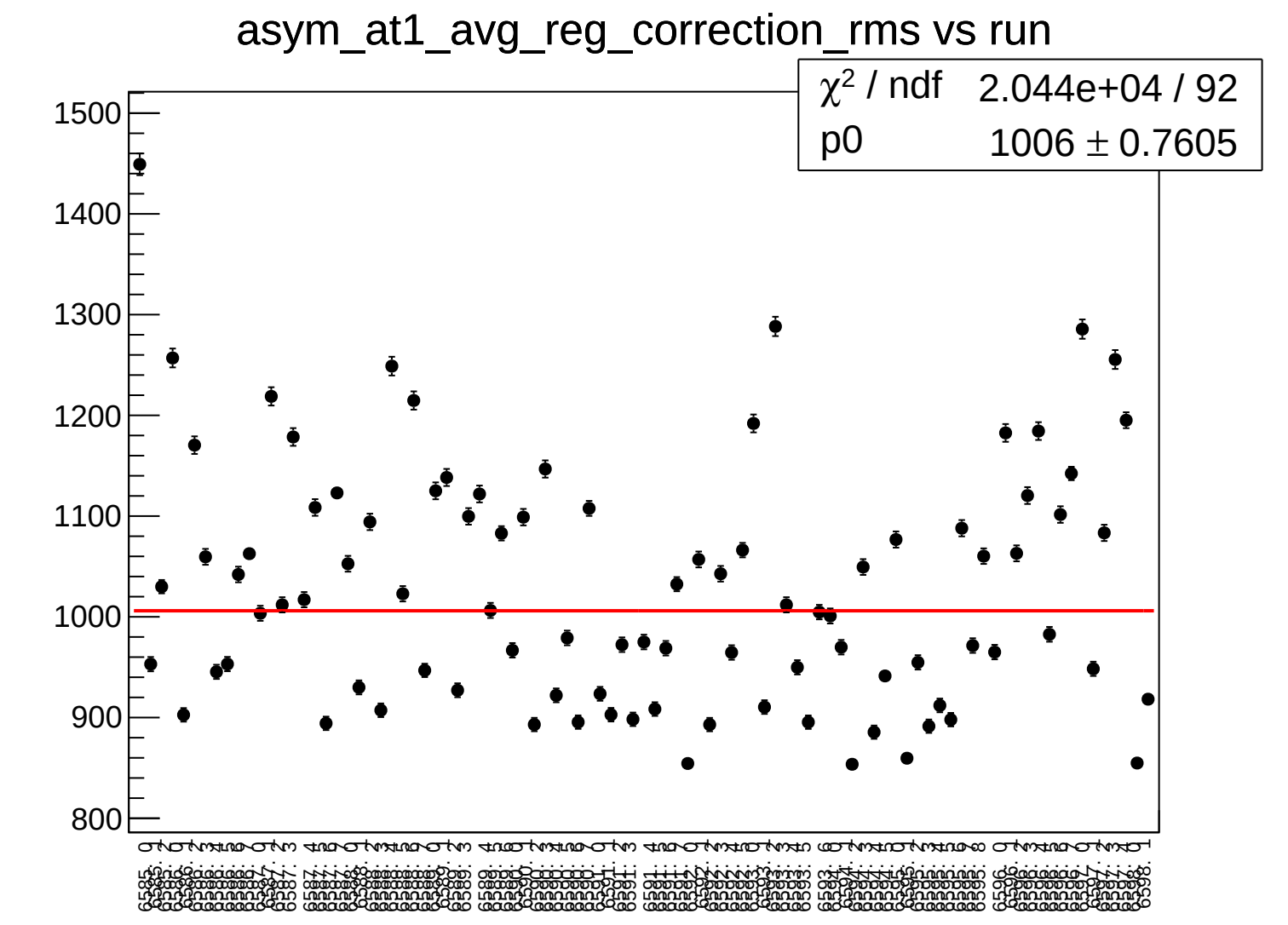

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.179e+05 / 92
p0 4.223e−11 ± 3.933e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

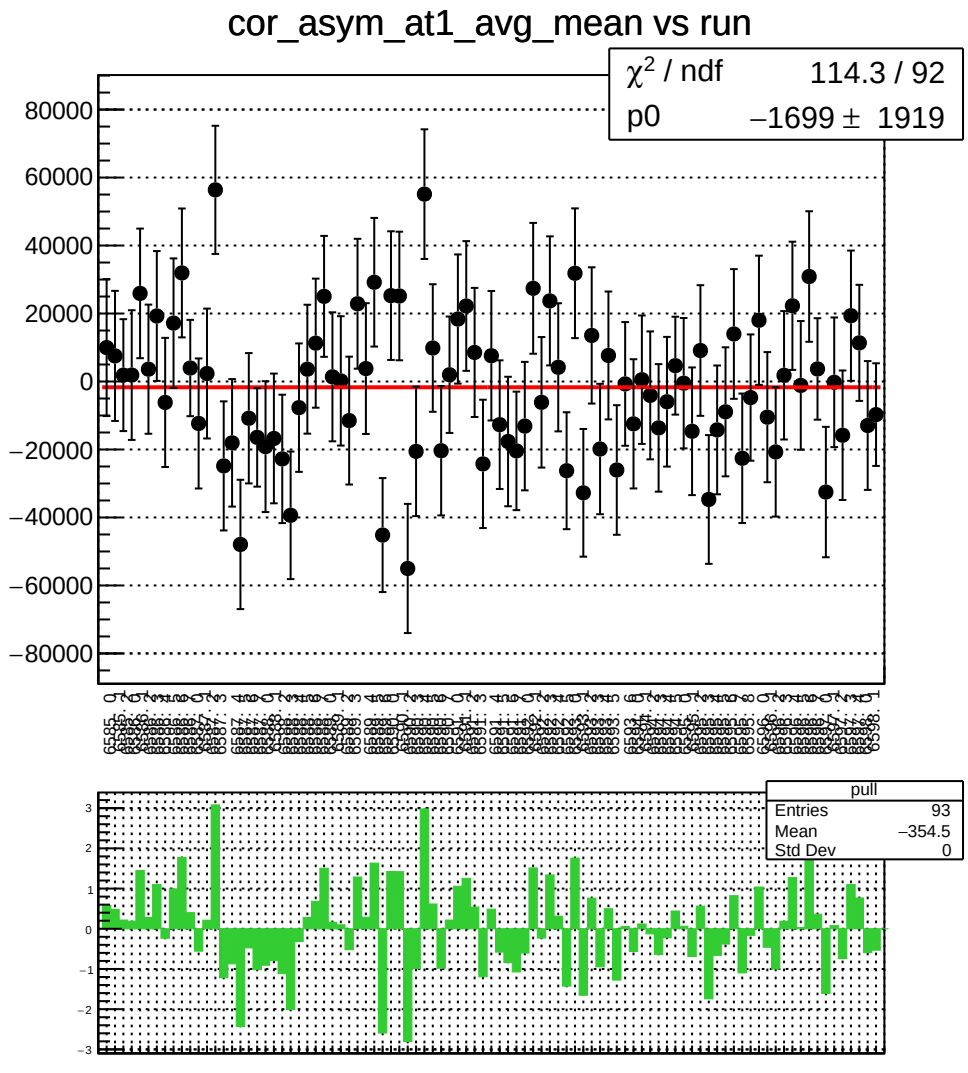

reg_asym_at1_avg_mean vs run
χ² / ndf 114.3 / 92
p0 −1698 ± 1919
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −354.6
Std Dev 0
3
2
1
0
−1
−2
−3

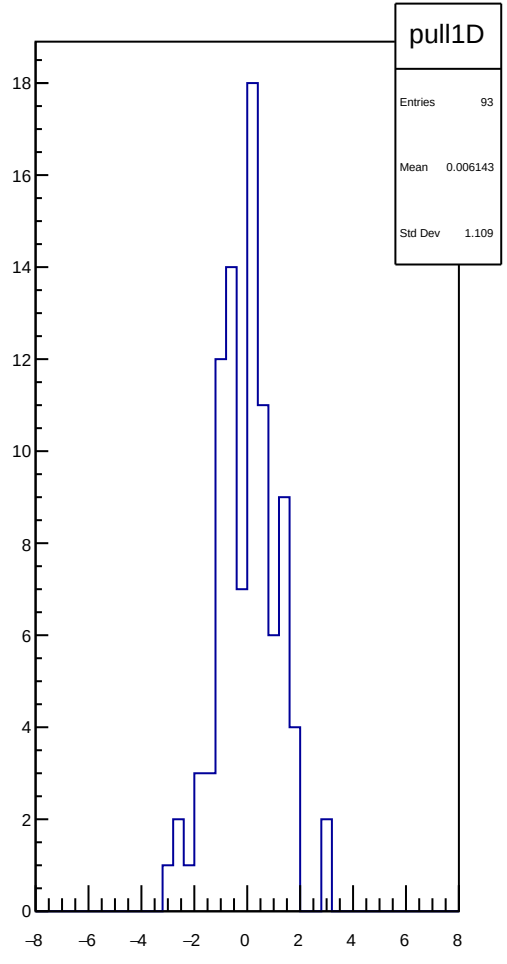

pull1D
Entries 93
Mean 0.006143
Std Dev 1.109
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

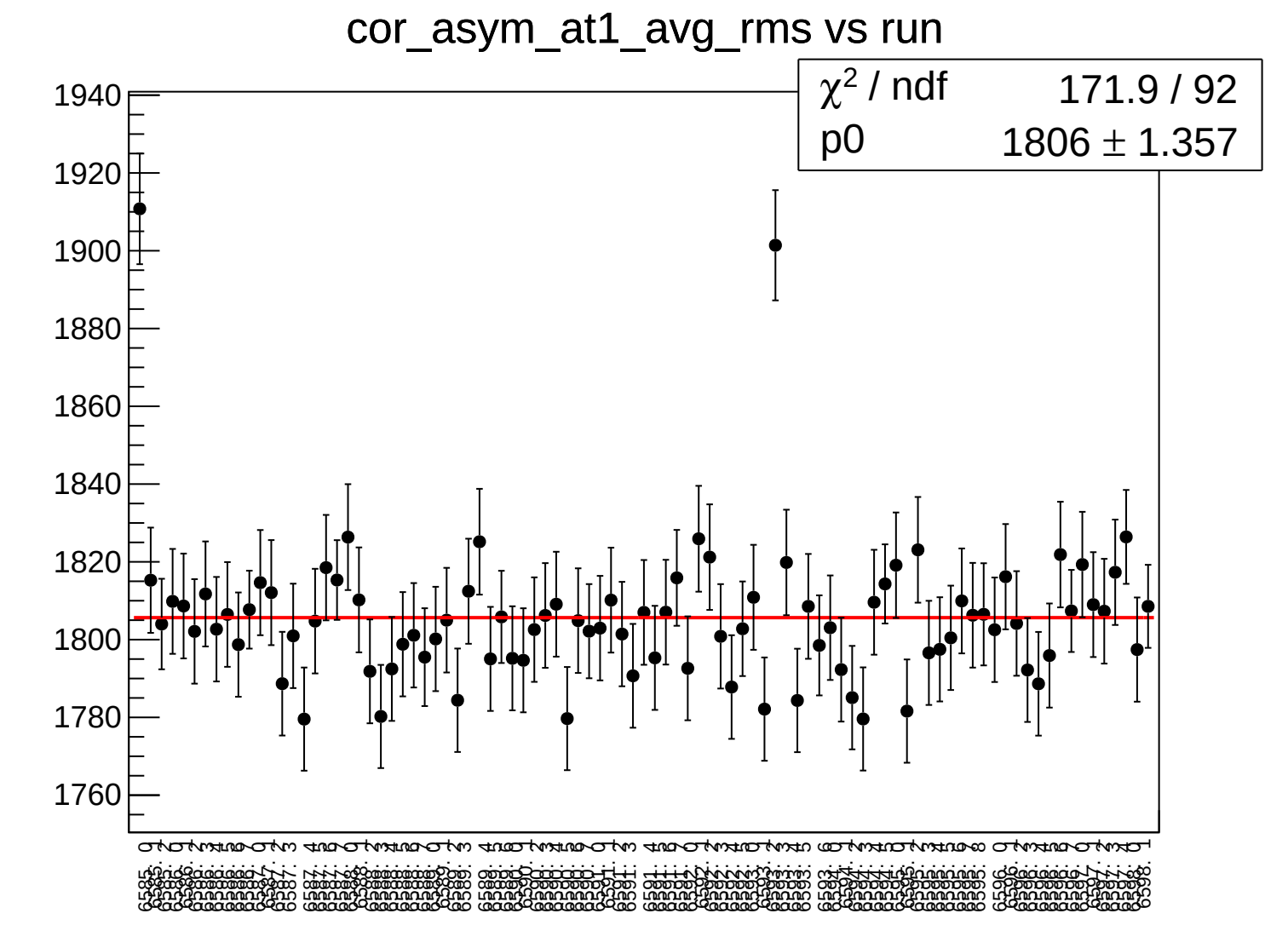

reg_asym_at1_avg_rms vs run
χ² / ndf 171.9 / 92
p0 1806 ± 1.357
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

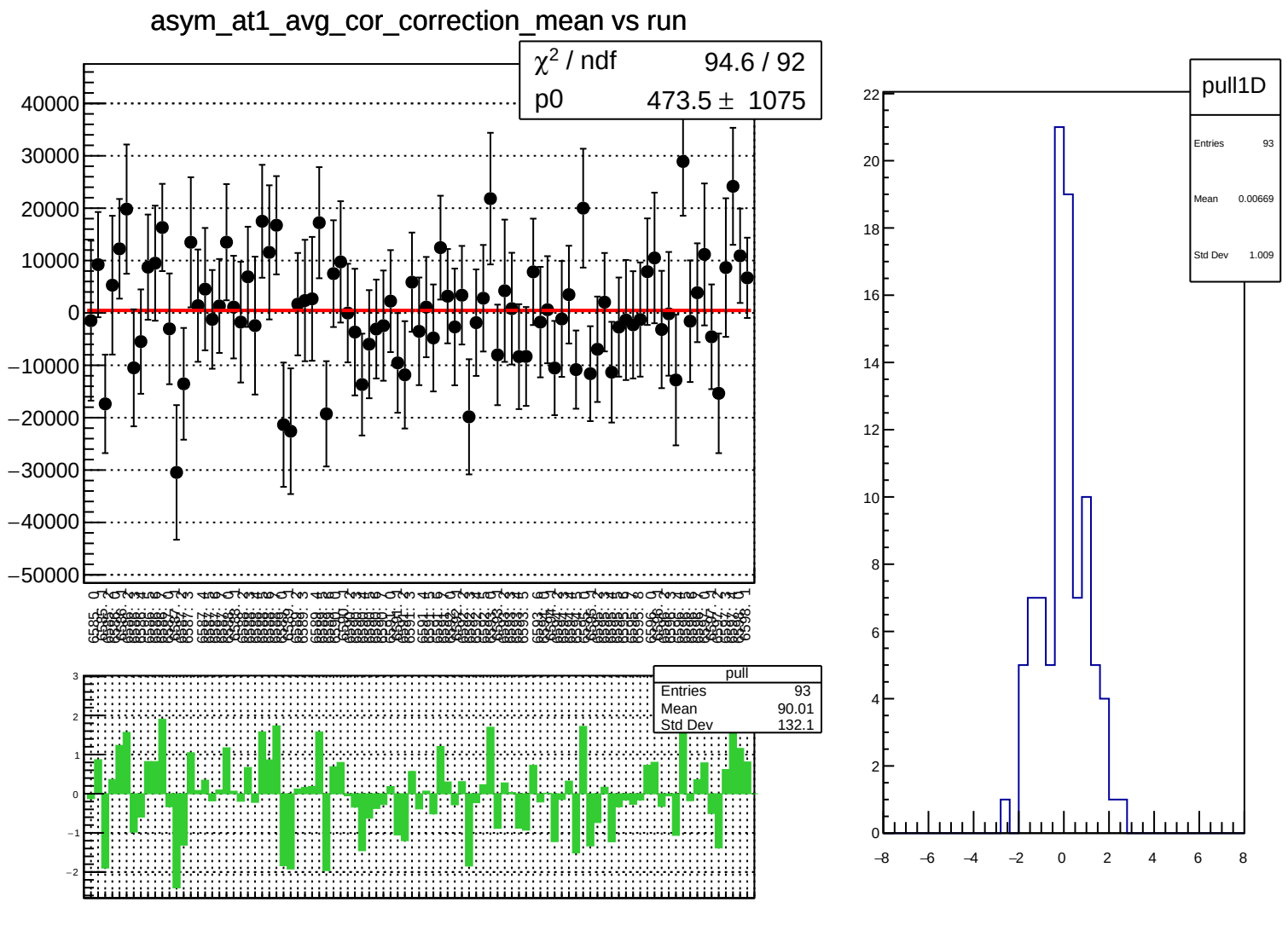

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 94.6 / 92
p0 473.4 ± 1075
pull
Entries 93
Mean 89.97
Std Dev 131.8
pull1D
Entries 93
Mean 0.006717
Std Dev 1.009

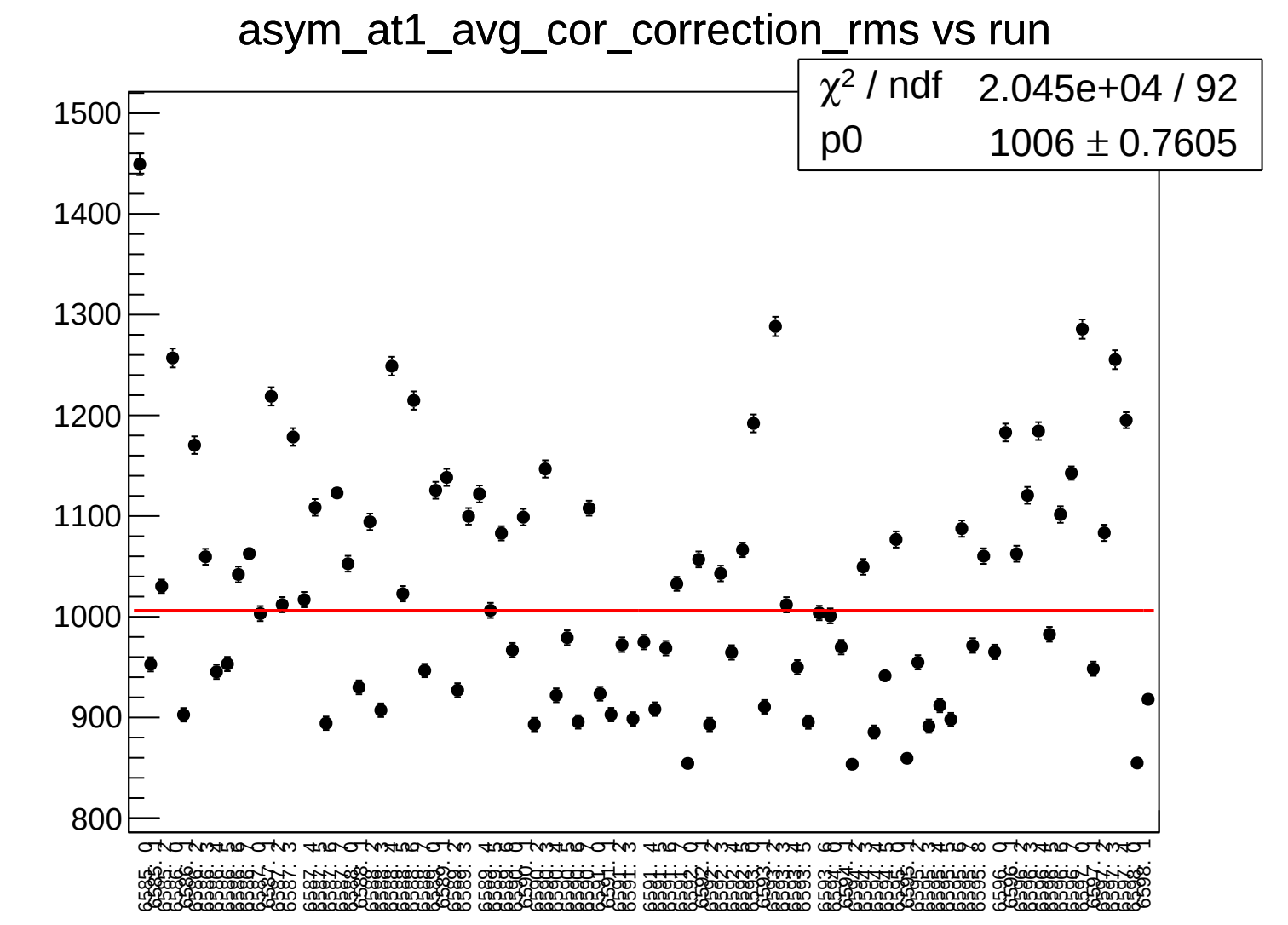

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.044e+04 / 92
p0 1006 ± 0.7605
1500
1400
1300
1200
1100
1000
900
800

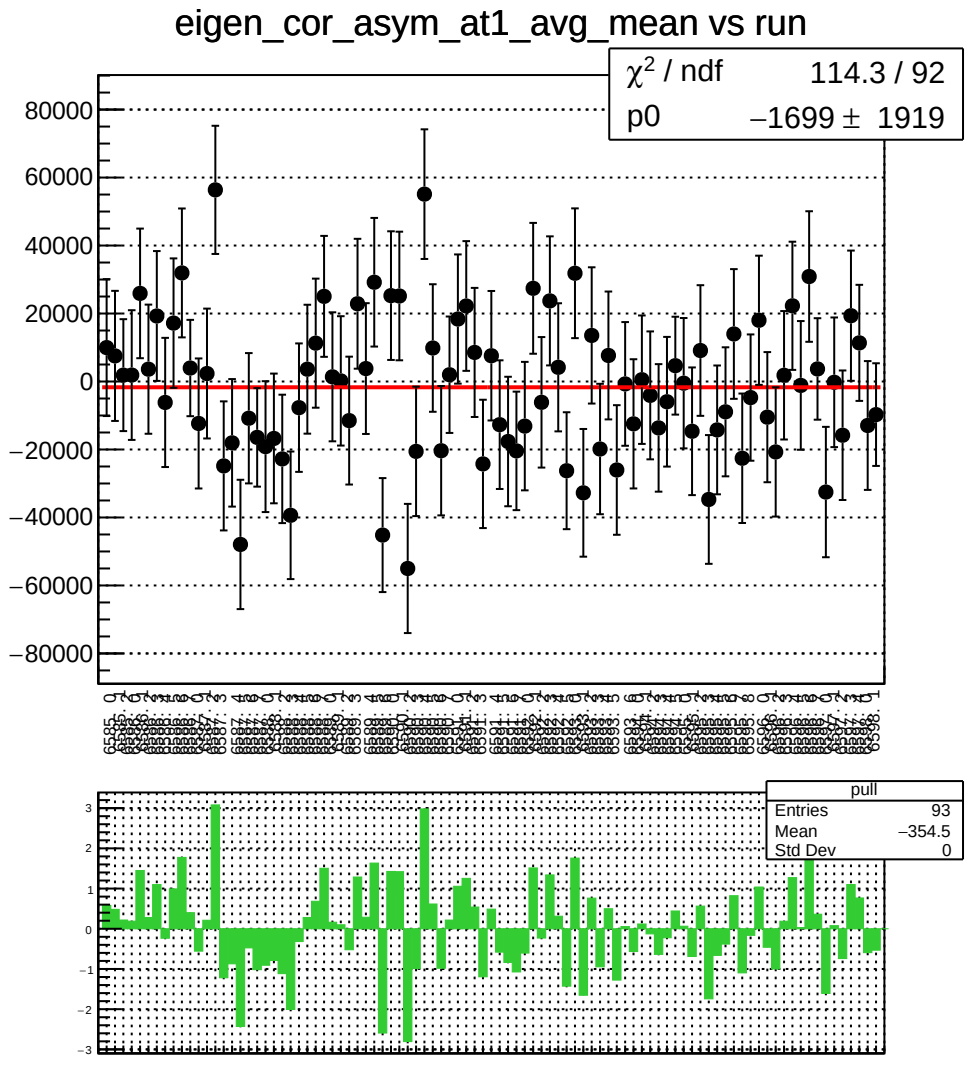

cor_asym_at1_avg_mean vs run
χ² / ndf 114.3 / 92
p0 −1699 ± 1919
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −354.5
Std Dev 0
3
2
1
0
−1
−2
−3

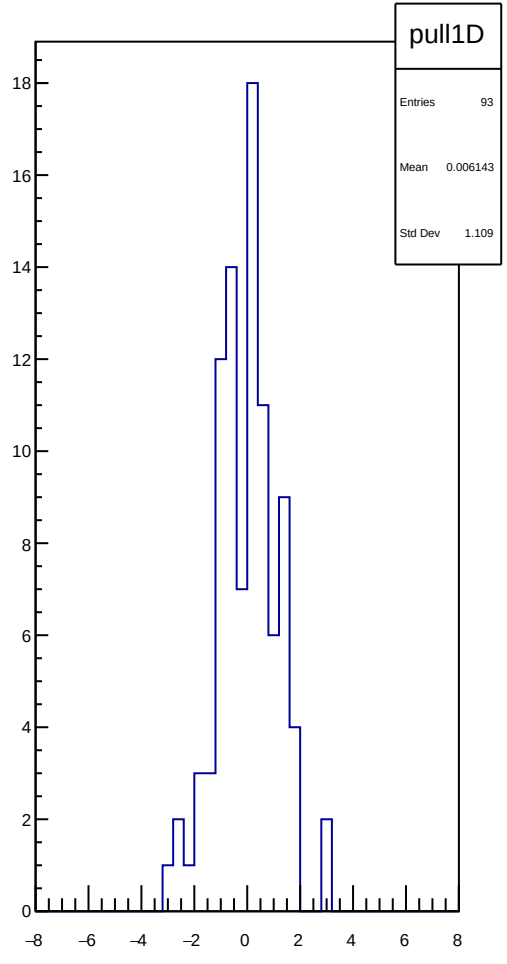

pull1D
Entries 93
Mean 0.006143
Std Dev 1.109
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

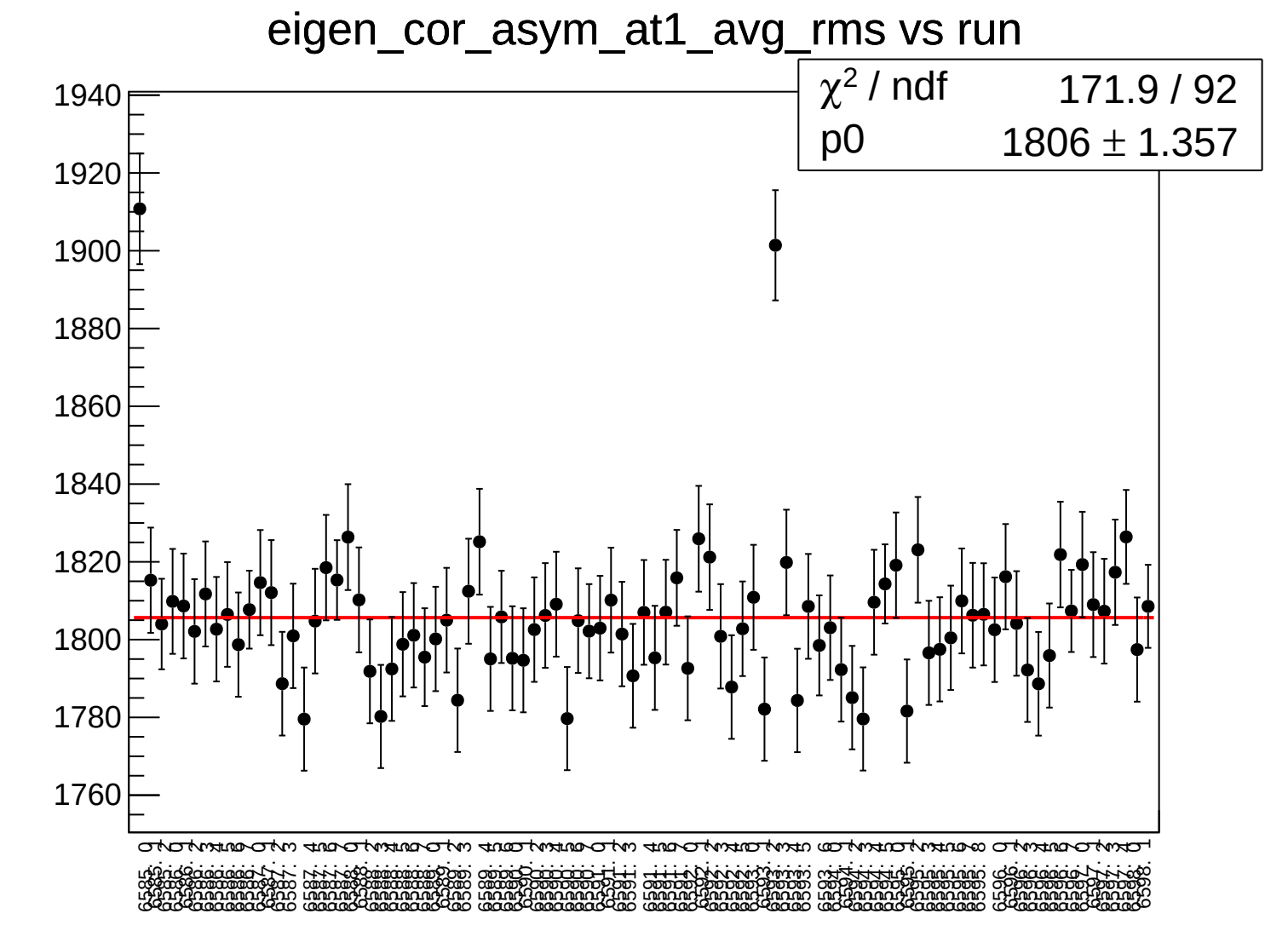

cor_asym_at1_avg_rms vs run
χ^2 / ndf 171.9 / 92
p0 1806 ± 1.357
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

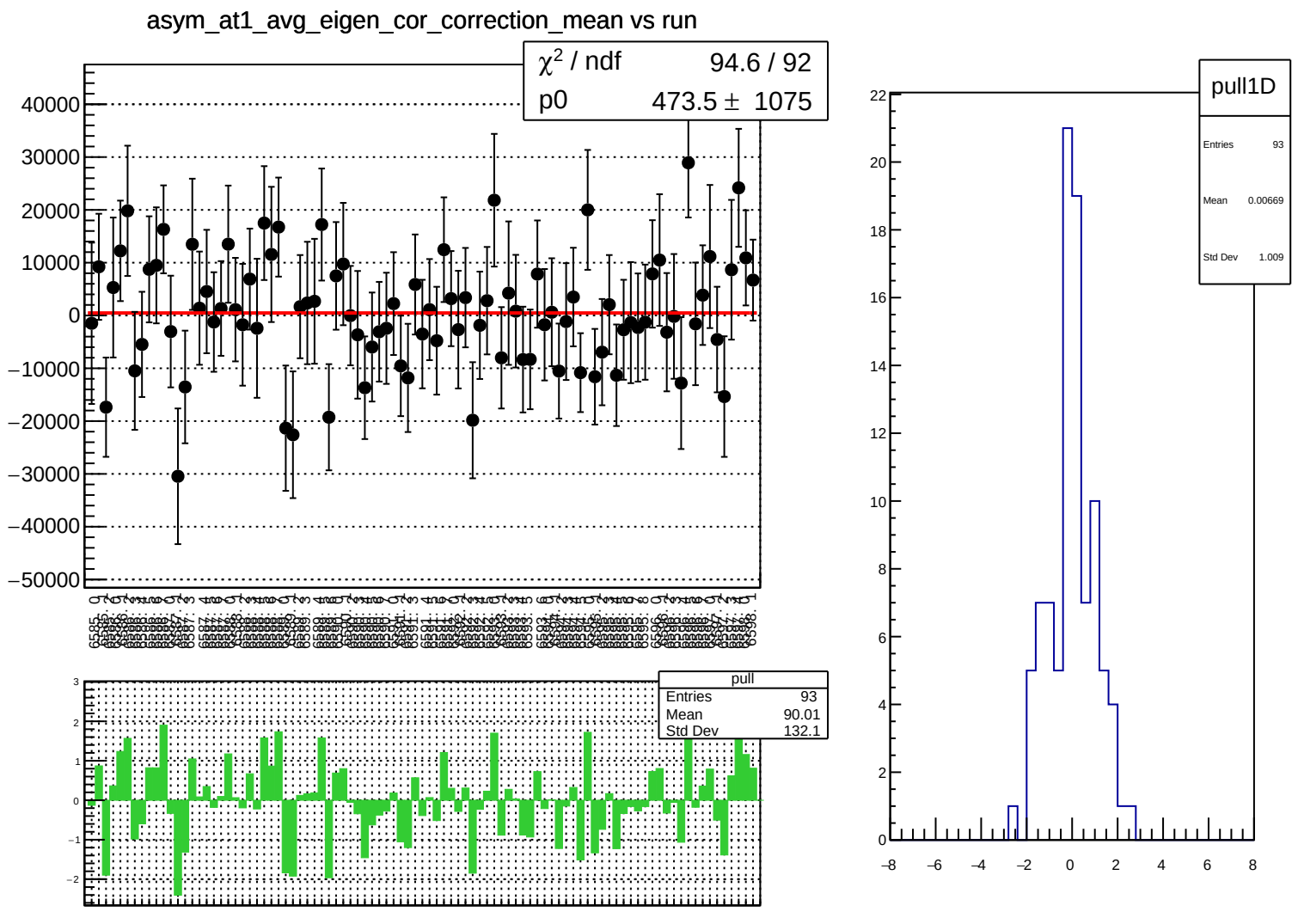

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 94.6 / 92
p0 473.5 ± 1075
pull
Entries 93
Mean 90.01
Std Dev 132.1
pull1D
Entries 93
Mean 0.00669
Std Dev 1.009

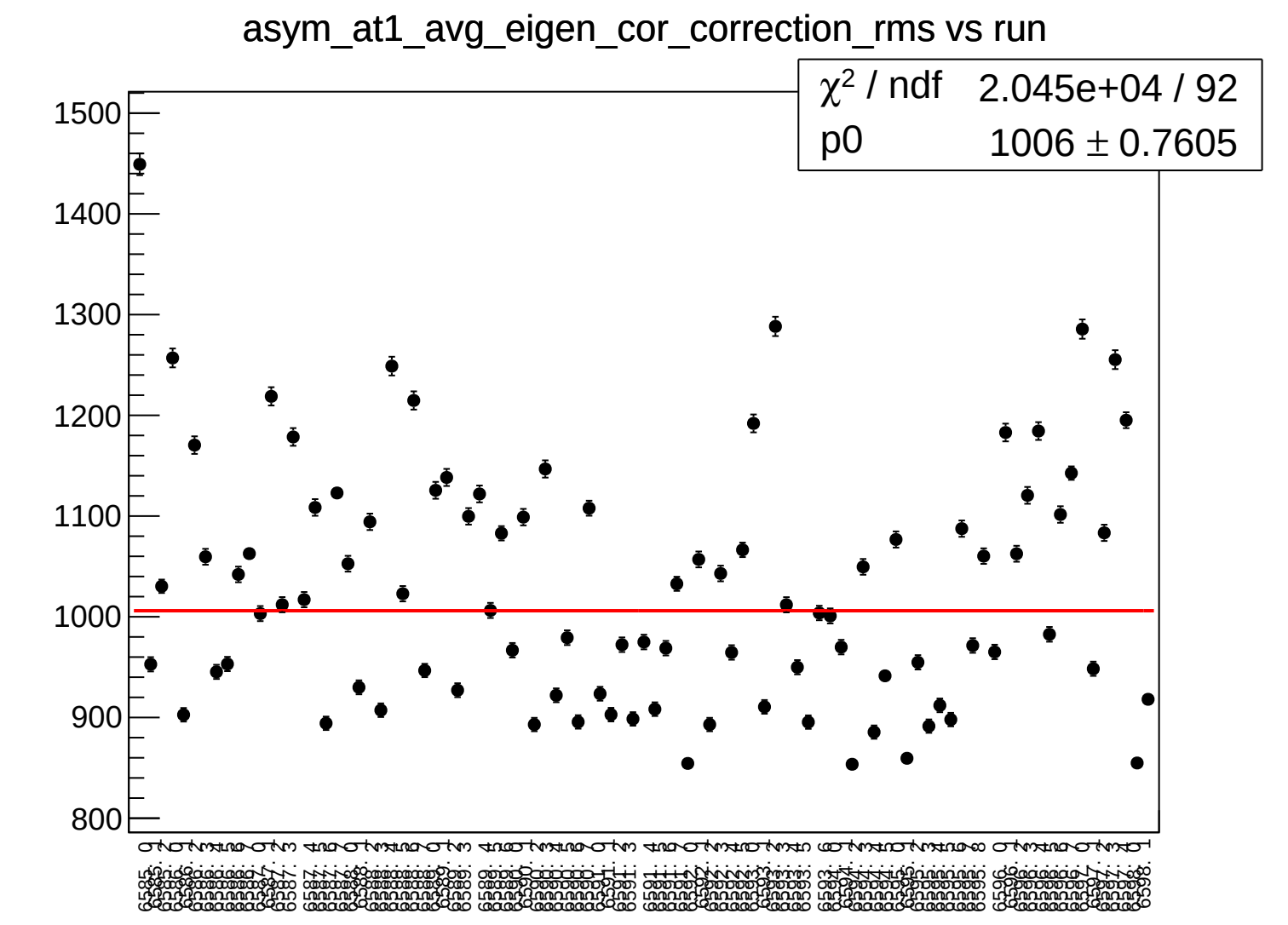

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.045e+04 / 92
p0 1006 ± 0.7605
1500
1400
1300
1200
1100
1000
900
800

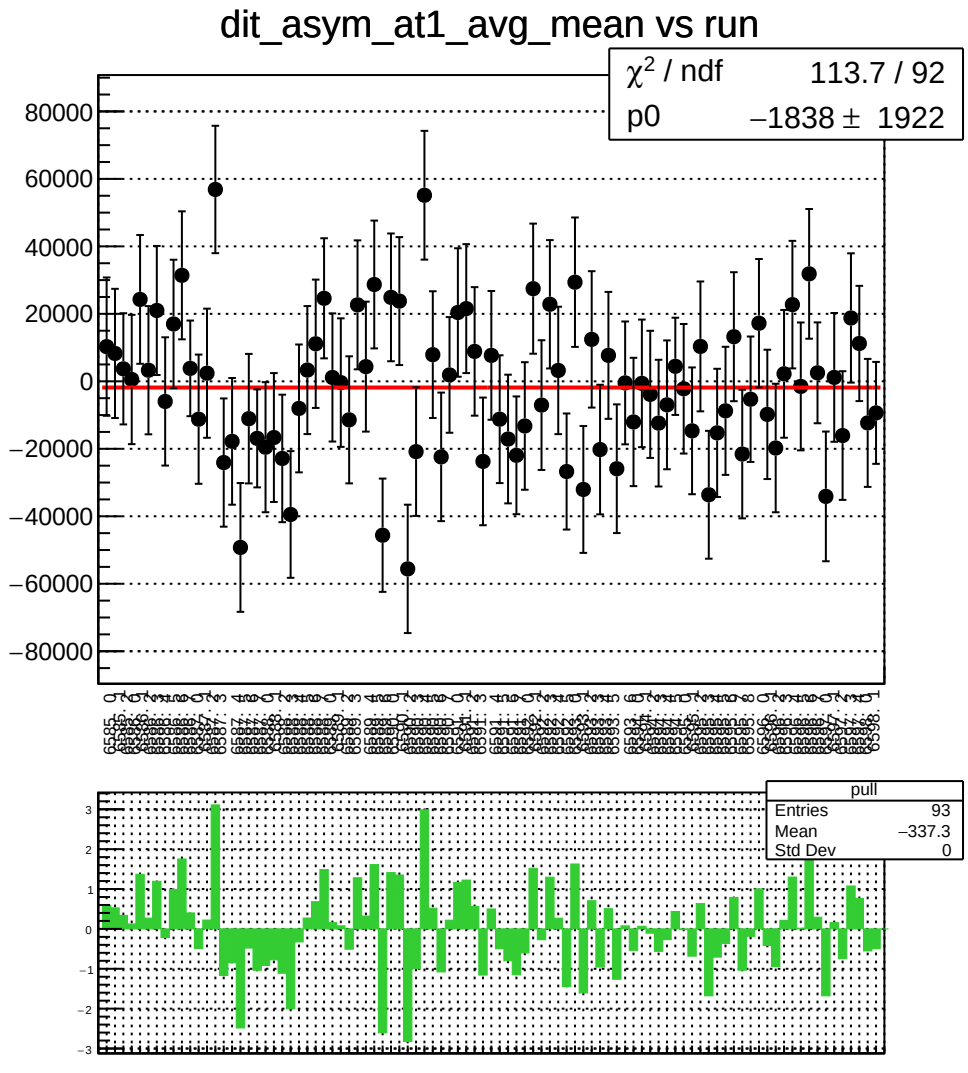

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 114.3 / 92
p0 −1699 ± 1919
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −354.5
Std Dev 0
3
2
1
0
−1
−2
−3

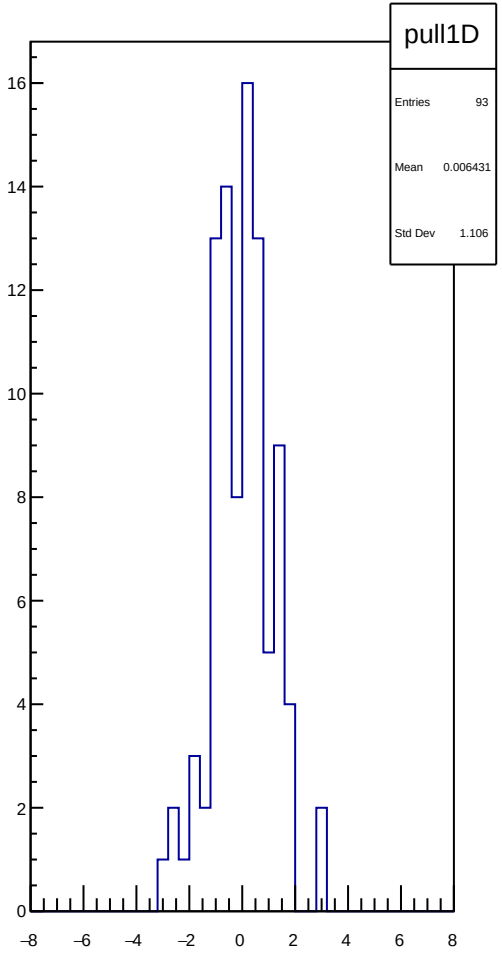

pull1D
Entries 93
Mean 0.006143
Std Dev 1.109
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

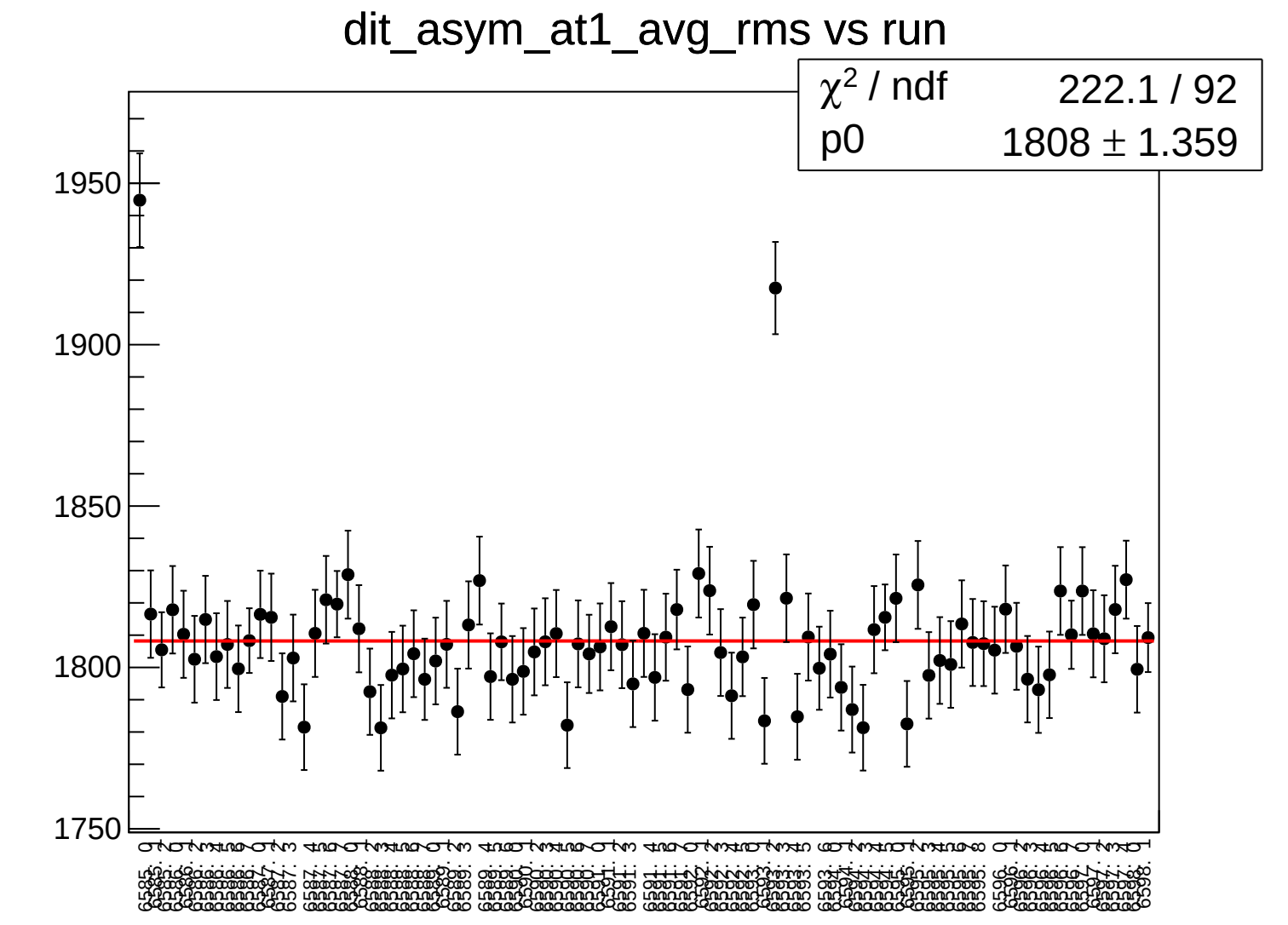

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 171.9 / 92
p0 1806 ± 1.357
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

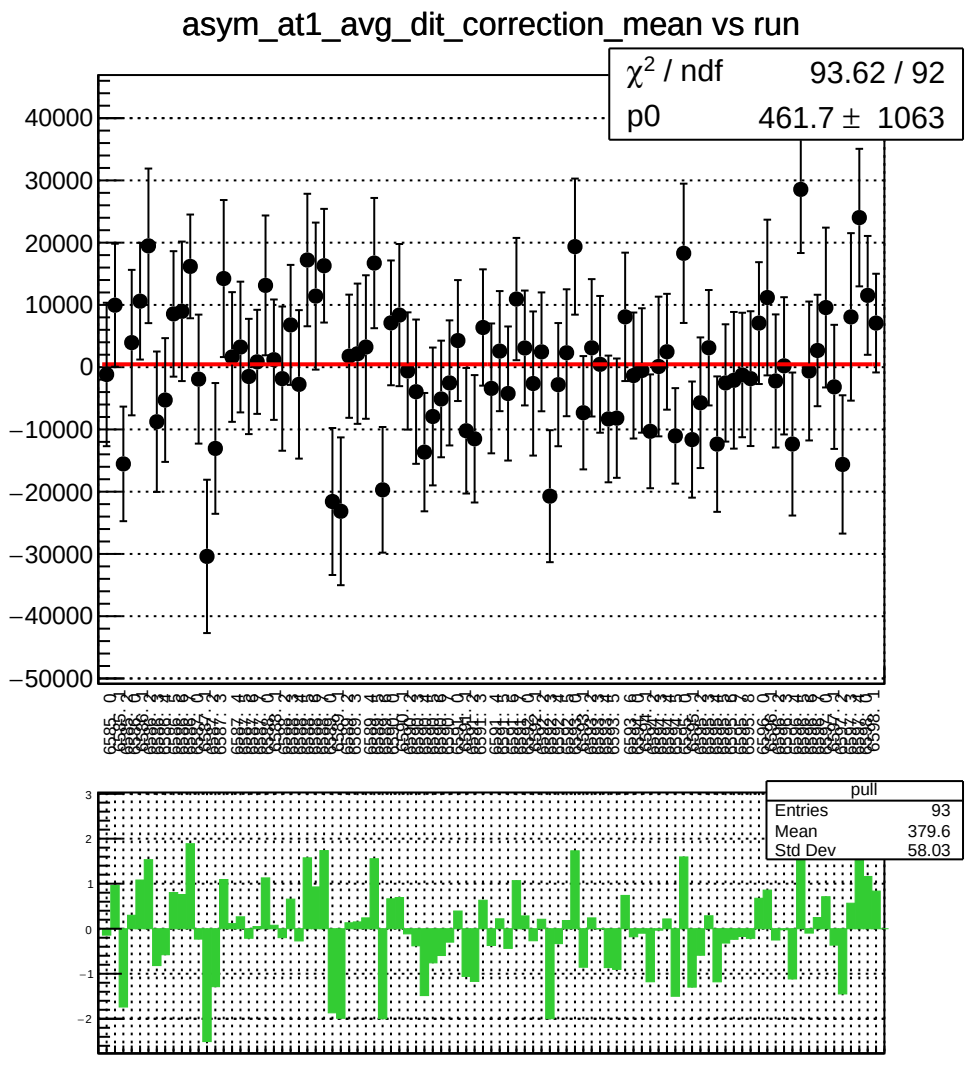

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.6 / 92
p0 473.5 ± 1075
pull
Entries 93
Mean 90.01
Std Dev 132.1
pull1D
Entries 93
Mean 0.00669
Std Dev 1.009

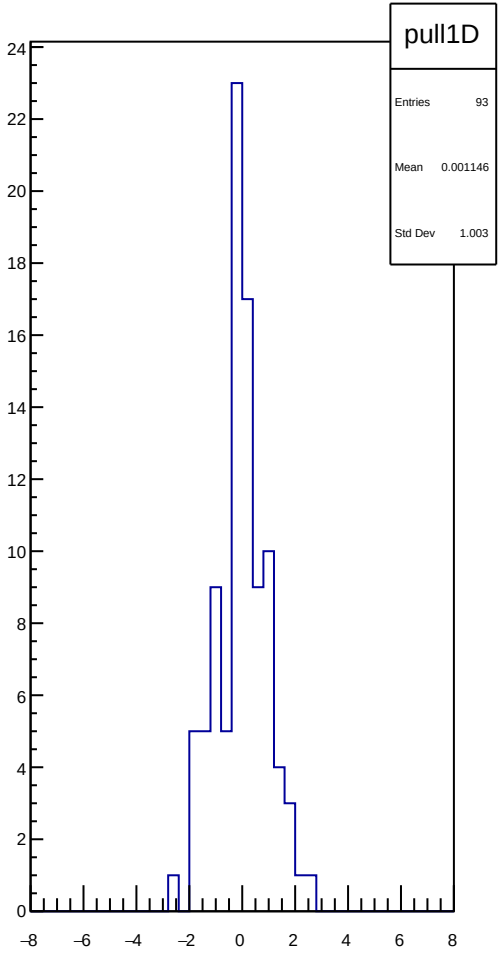

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.045e+04 / 92
p0 1006 ± 0.7605
1500
1400
1300
1200
1100
1000
900
800

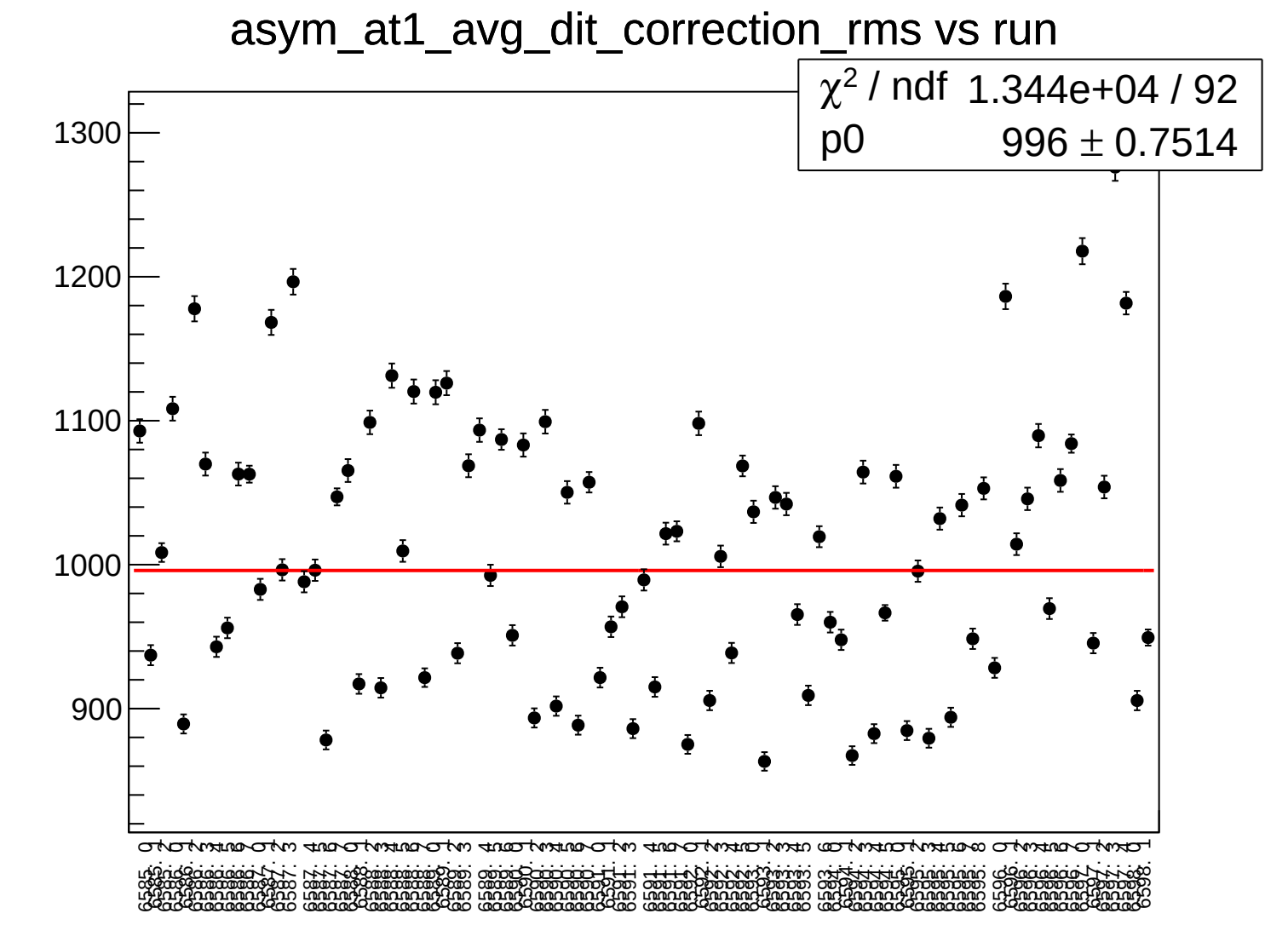

dit_asym_at1_avg_mean vs run
χ² / ndf 113.7 / 92
p0 −1838 ± 1922
pull
Entries 93
Mean −337.3
Std Dev 0

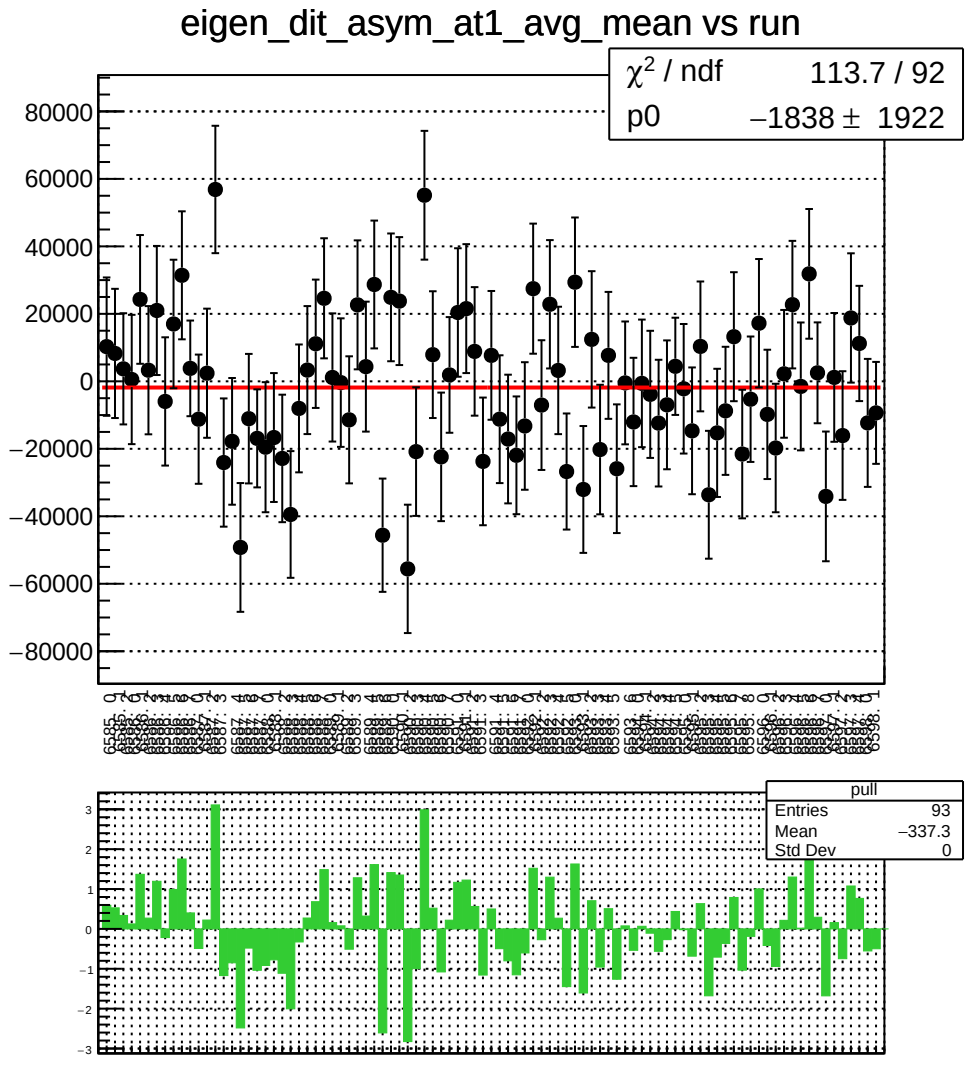

pull1D
Entries 93
Mean 0.006431
Std Dev 1.106

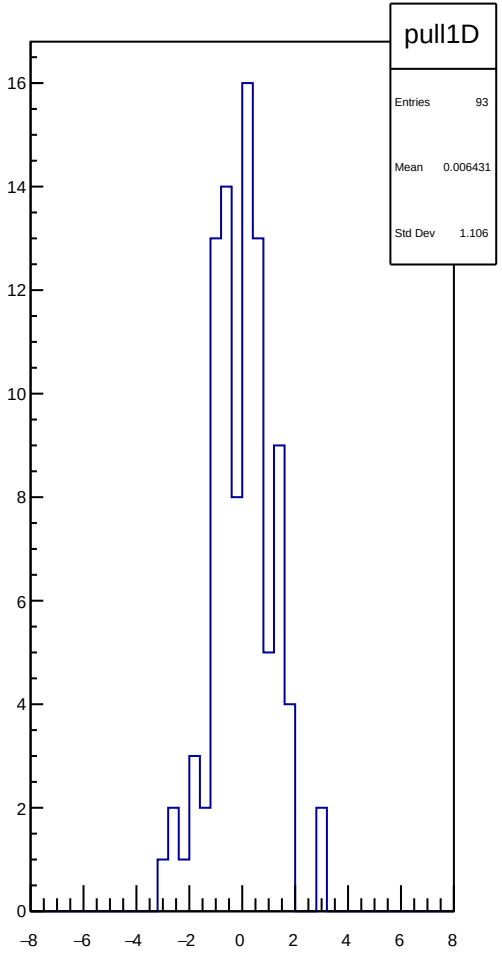

dit_asym_at1_avg_rms vs run
χ^2 / ndf 222.1 / 92
p0 1808 ± 1.359
1950
1900
1850
1800
1750

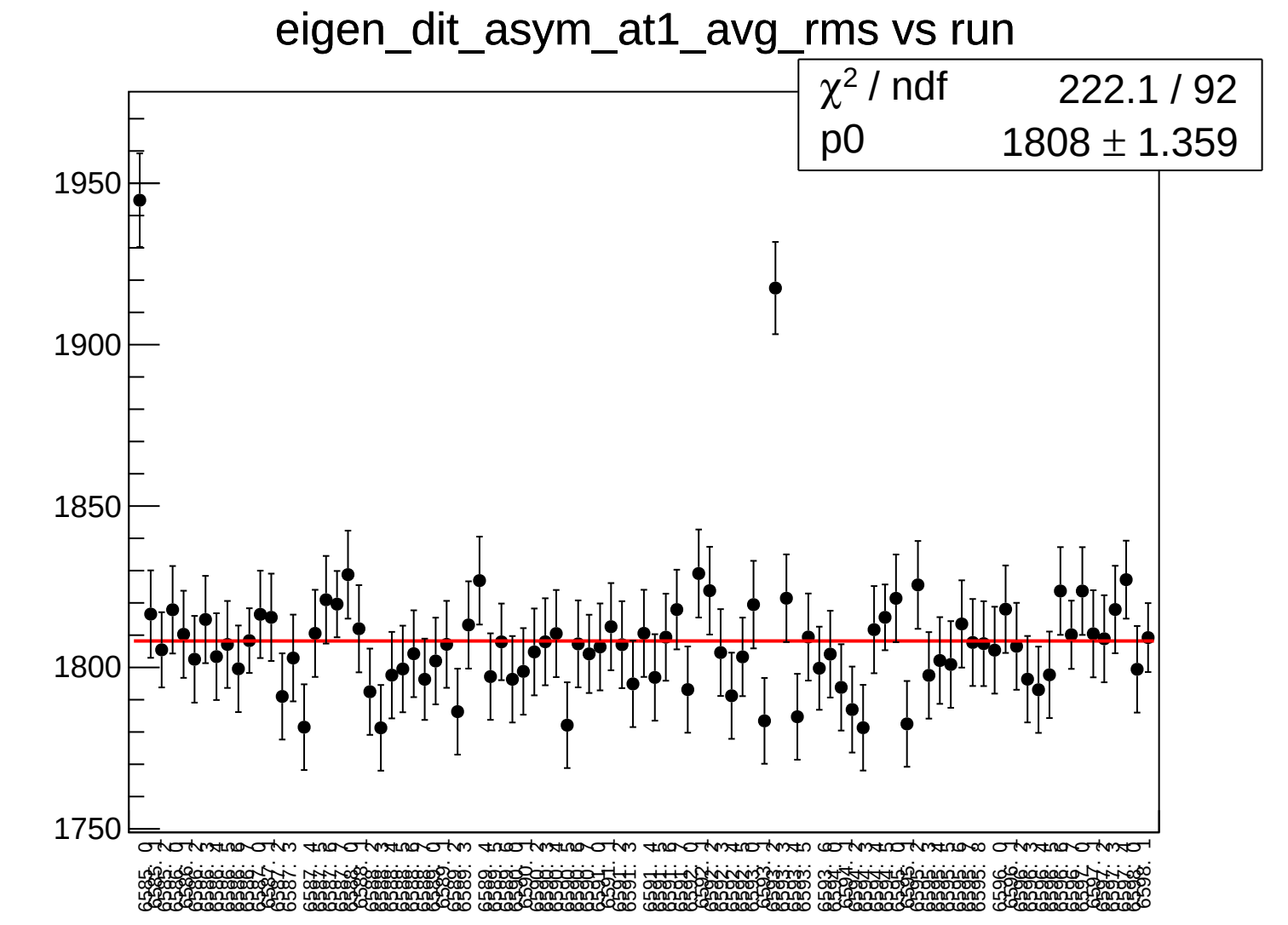

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 93.62 / 92
p0 461.7 ± 1063
pull
Entries 93
Mean 379.6
Std Dev 58.03

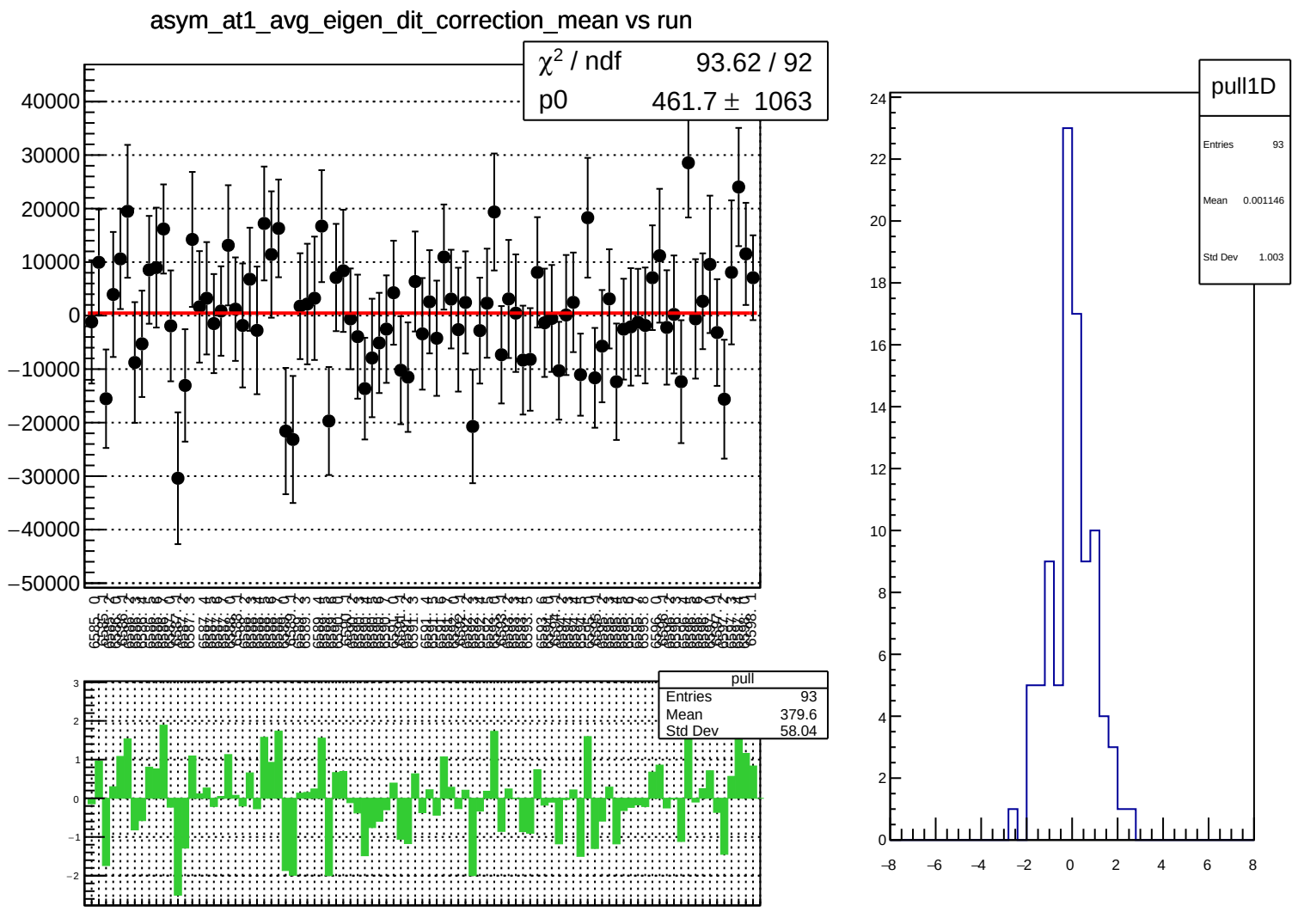

pull1D
Entries 93
Mean 0.001146
Std Dev 1.003

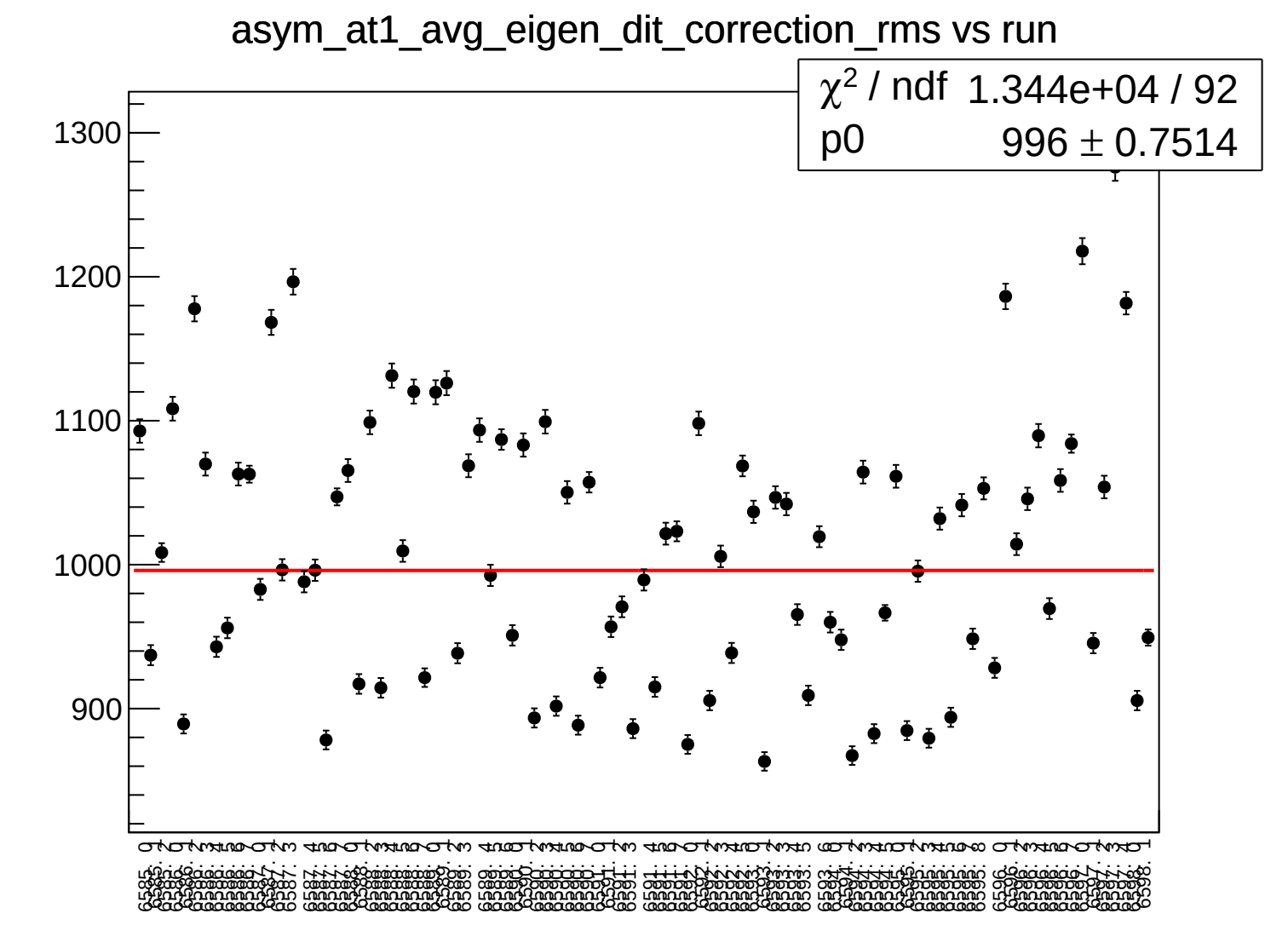

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 1.344e+04 / 92
p0 996 ± 0.7514
1300
1200
1100
1000
900

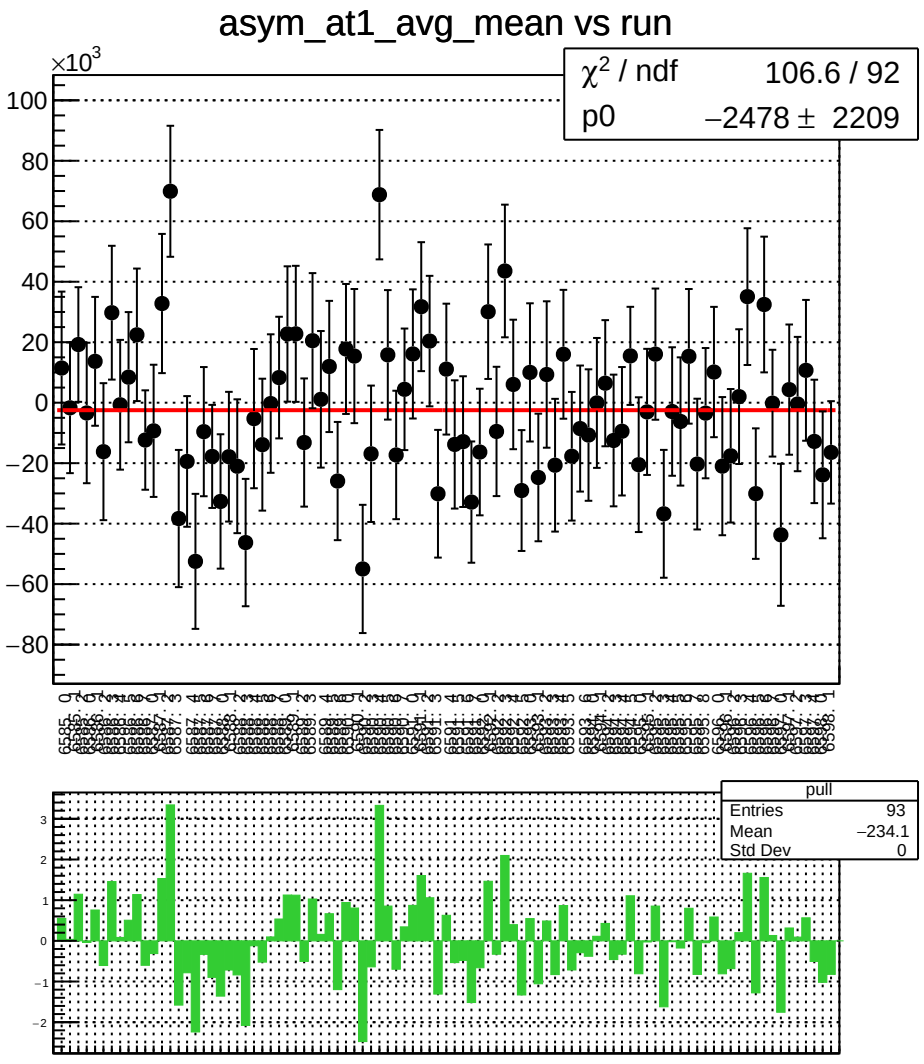

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 113.7 / 92
p0 −1838 ± 1922
pull
Entries 93
Mean −337.3
Std Dev 0

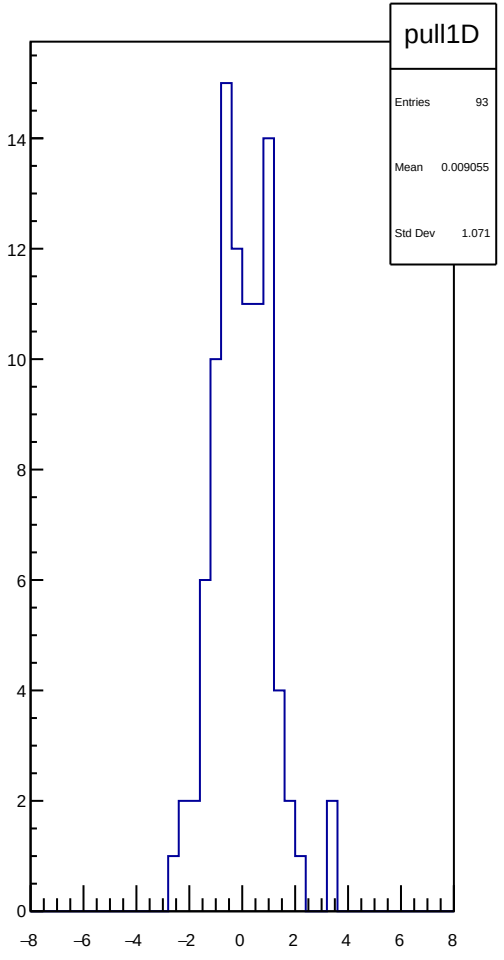

pull1D
Entries 93
Mean 0.006431
Std Dev 1.106

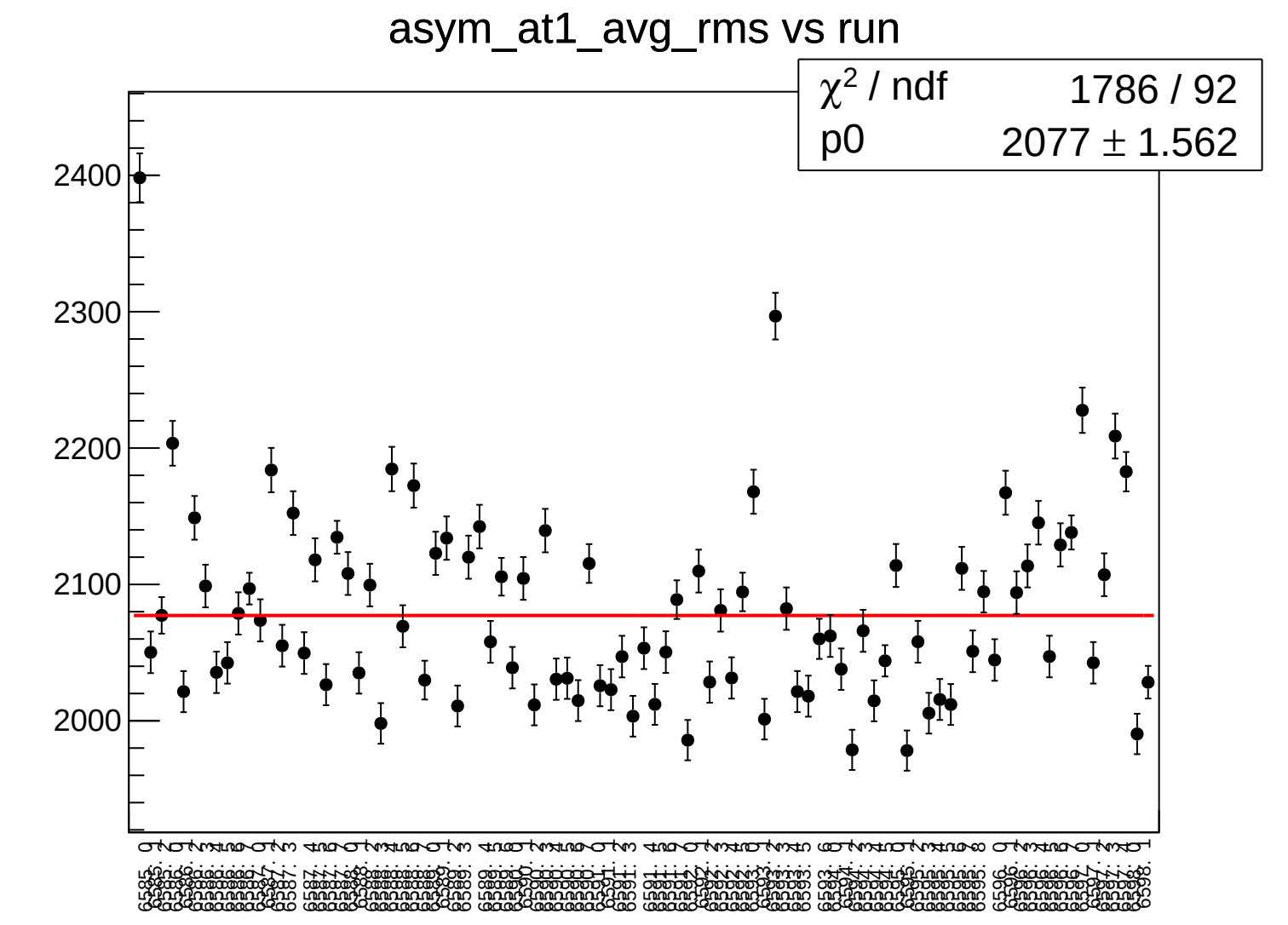

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 222.1 / 92
p0 1808 ± 1.359
1950
1900
1850
1800
1750

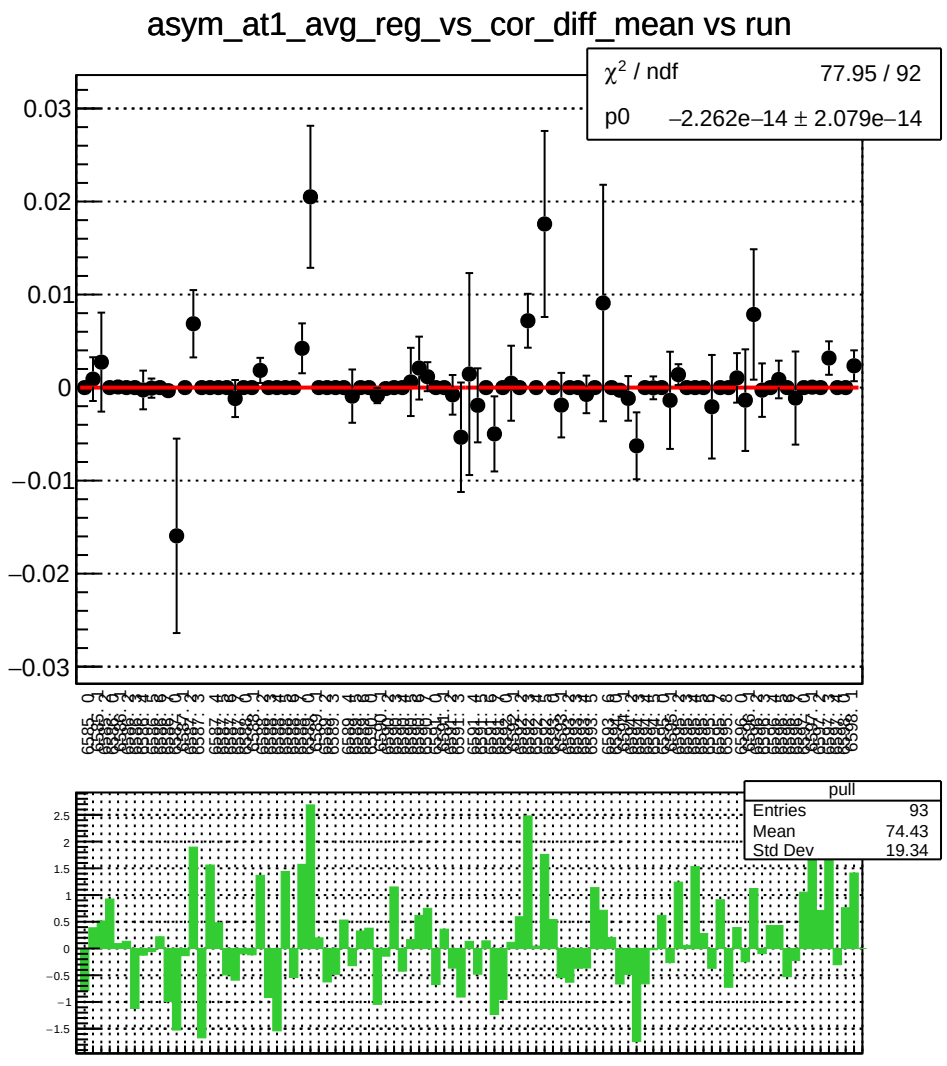

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 93.62 / 92
p0 461.7 ± 1063
pull
Entries 93
Mean 379.6
Std Dev 58.04
pull1D
Entries 93
Mean 0.001146
Std Dev 1.003

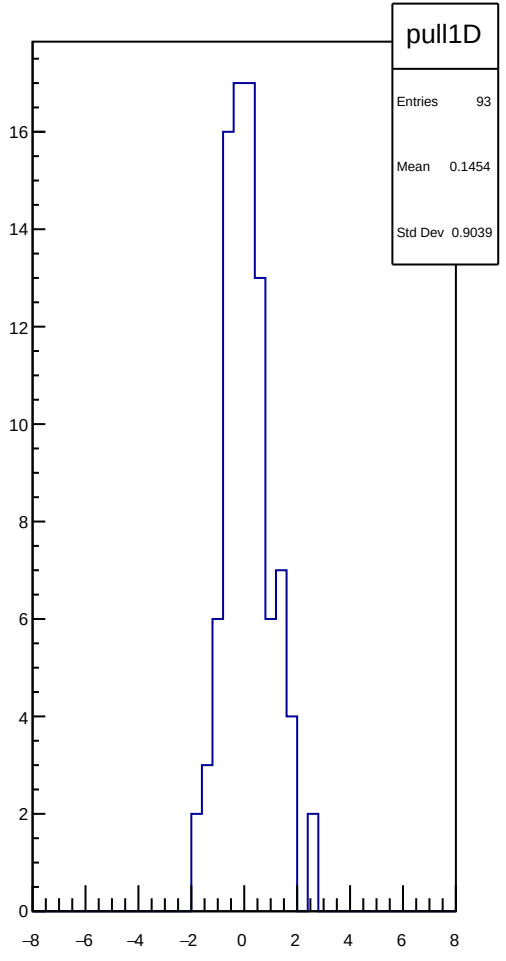

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.344e+04 / 92
p0 996 ± 0.7514
1300
1200
1100
1000
900

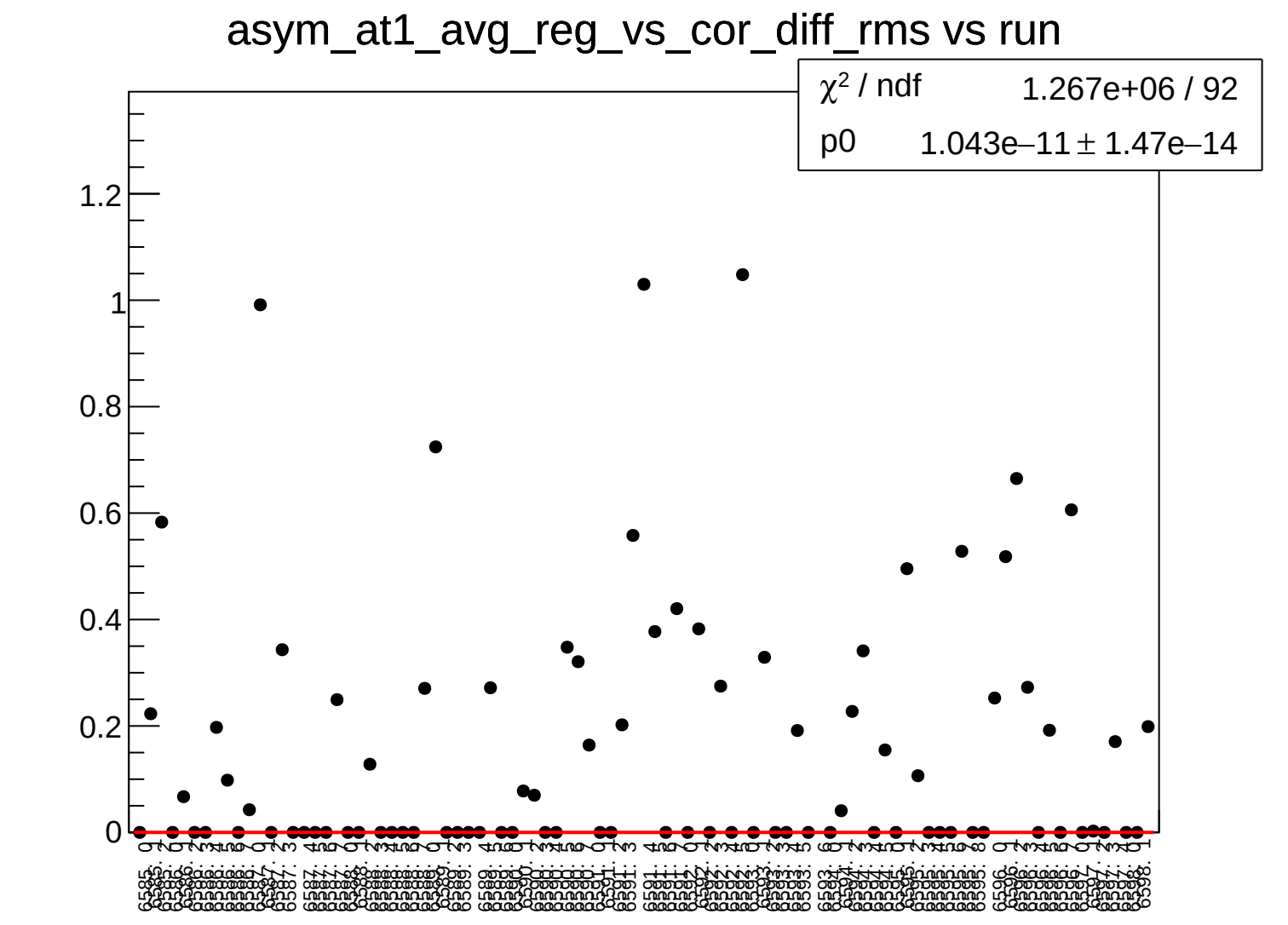

asym_at1_avg_mean vs run
×10^3
χ² / ndf 106.6 / 92
p0 −2478 ± 2209
pull
Entries 93
Mean −234.1
Std Dev 0

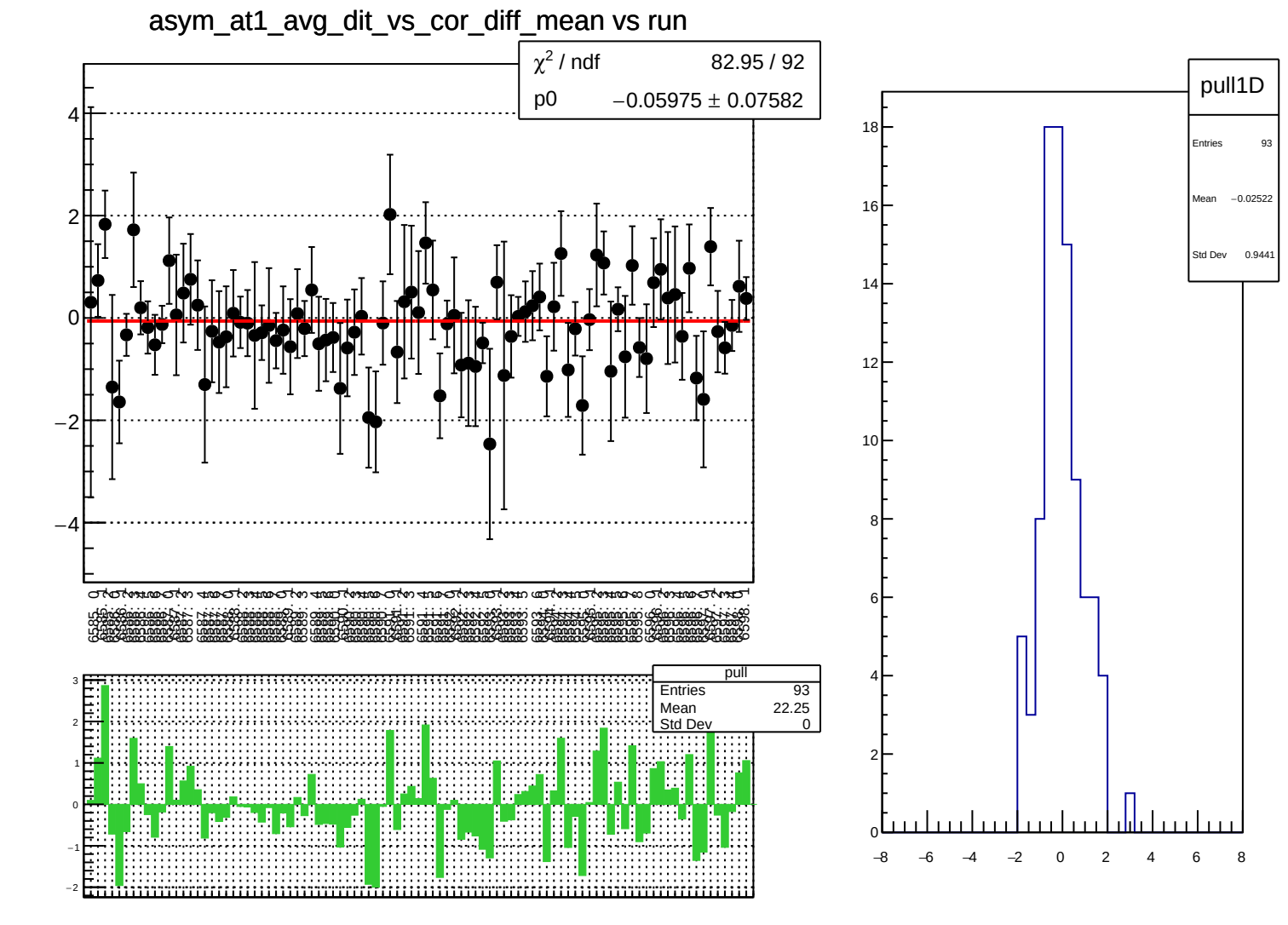

pull1D
Entries 93
Mean 0.009055
Std Dev 1.071

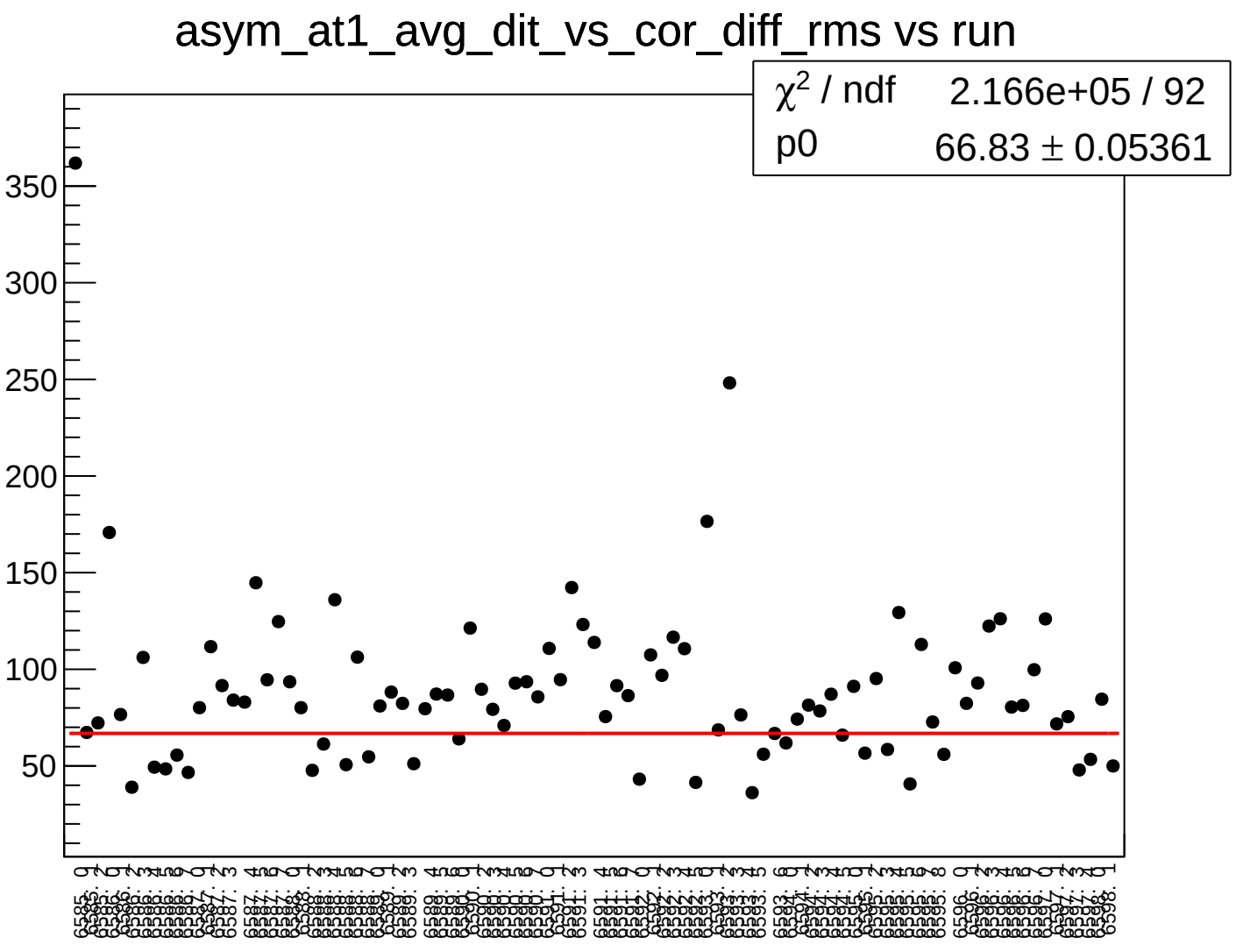

asym_at1_avg_rms vs run
χ^2 / ndf 1786 / 92
p0 2077 ± 1.562
2400
2300
2200
2100
2000

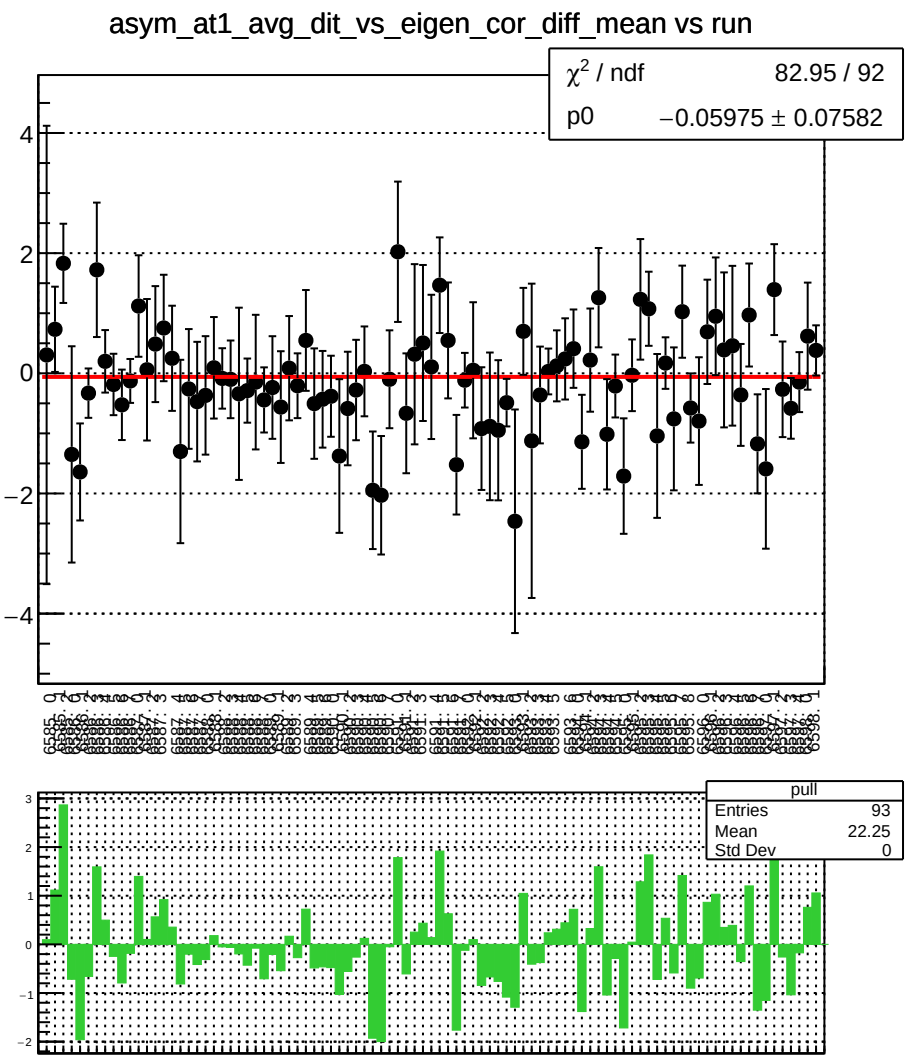

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.95 / 92
p0 −2.262e−14 ± 2.079e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 74.43
Std Dev 19.34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

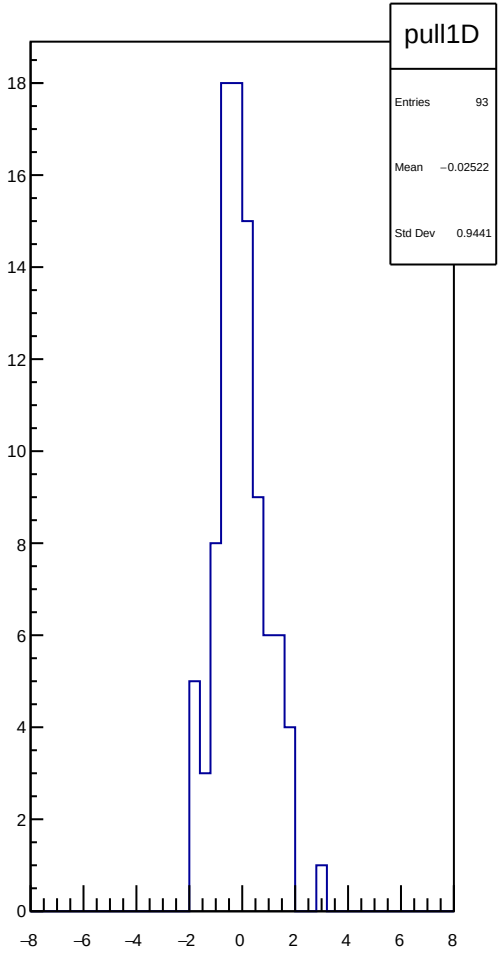

pull1D
Entries 93
Mean 0.1454
Std Dev 0.9039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

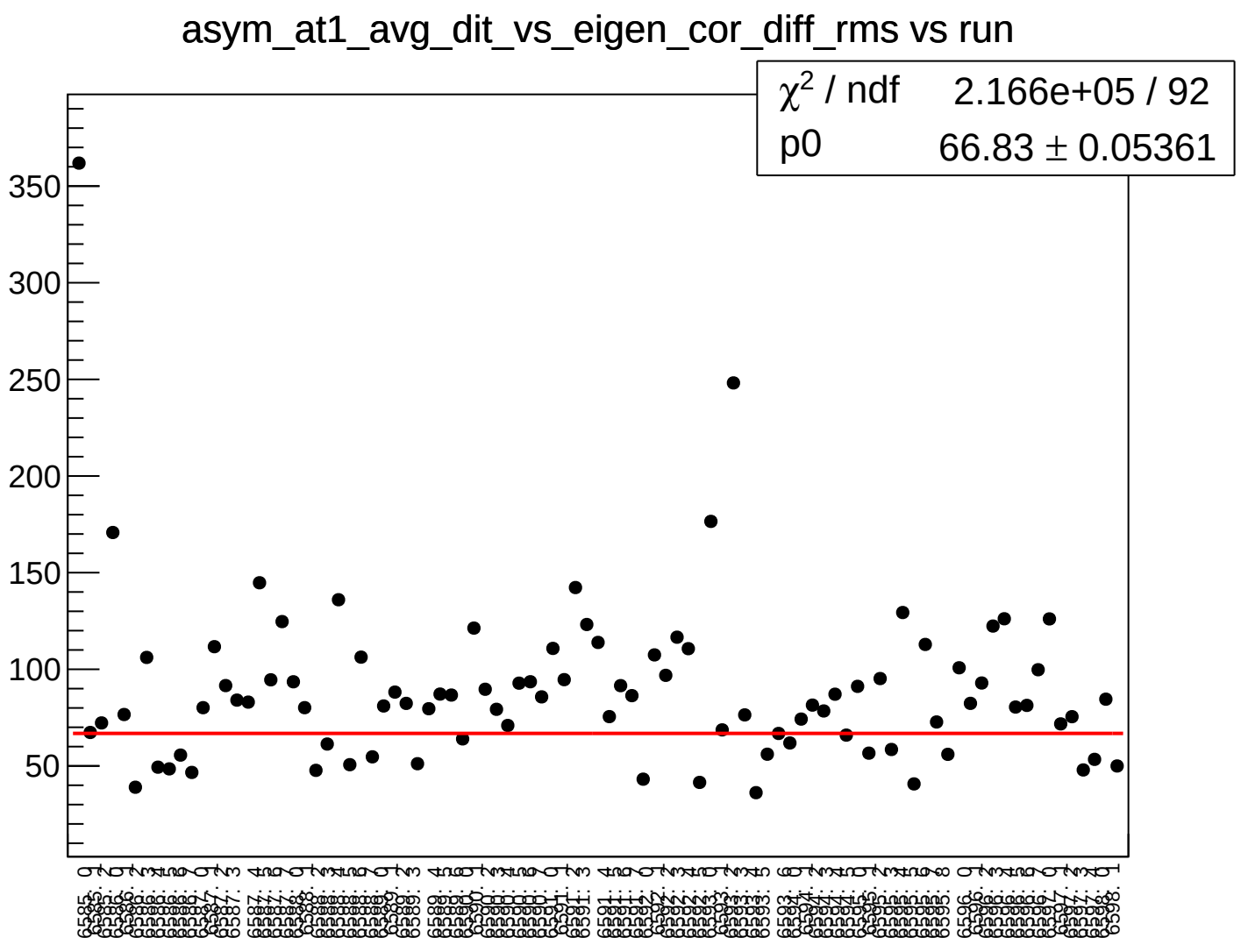

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.267e+06 / 92
p0 1.043e−11 ± 1.47e−14
1.2
1
0.8
0.6
0.4
0.2
0

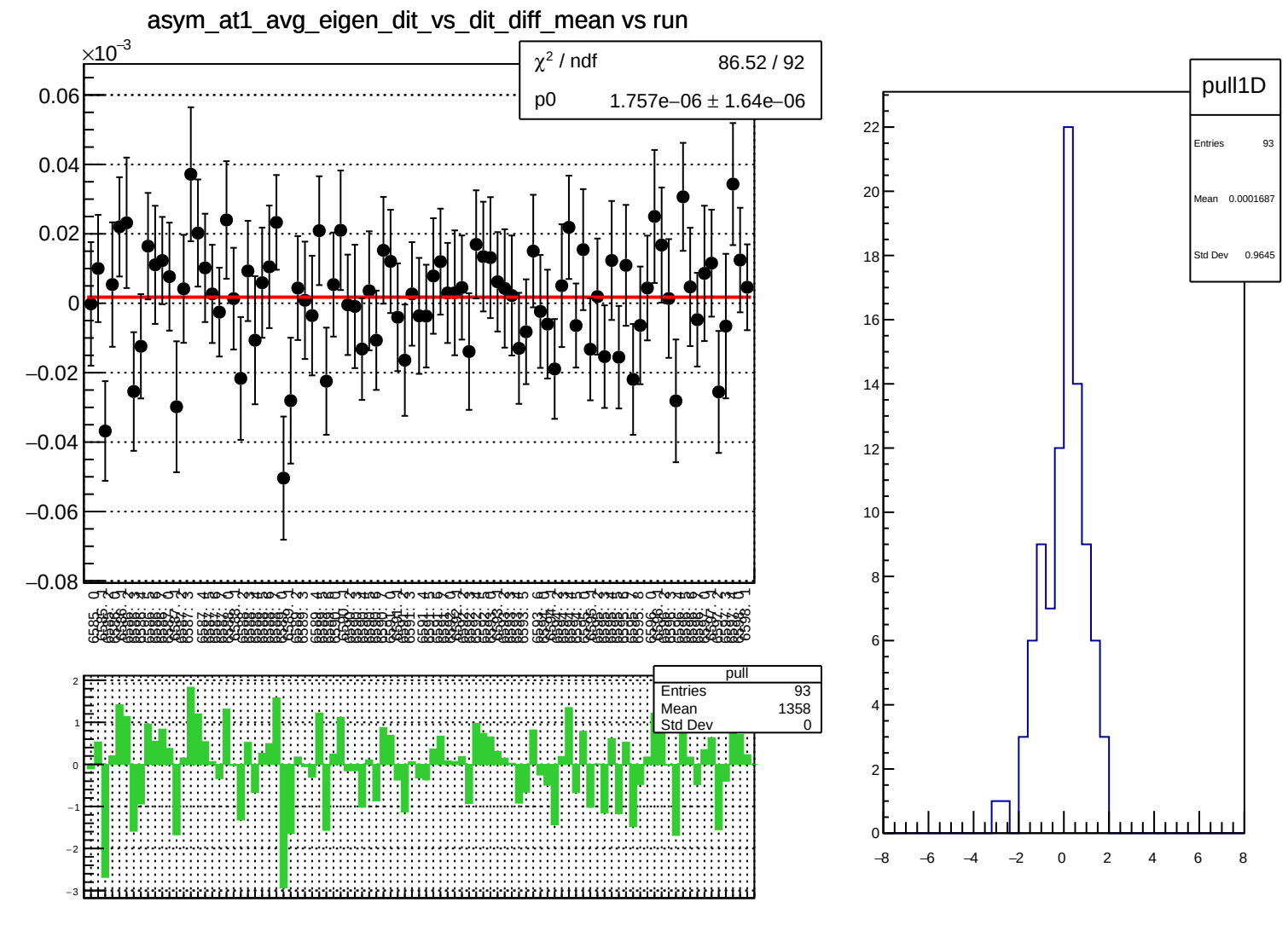

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 92
p0 −0.05975 ± 0.07582
pull
Entries 93
Mean 22.25
Std Dev 0
pull1D
Entries 93
Mean −0.02522
Std Dev 0.9441

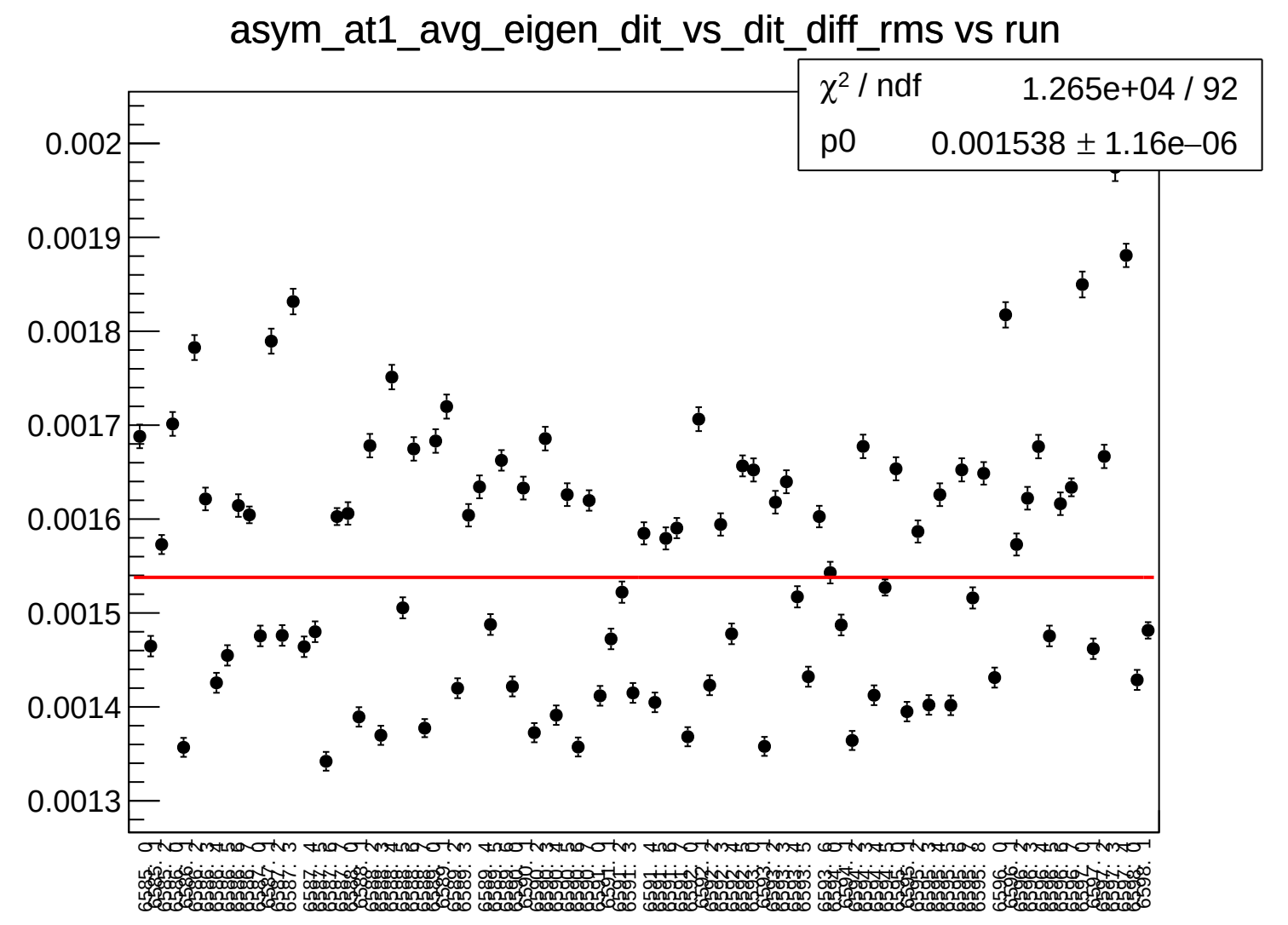

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.166e+05 / 92
p0 66.83 ± 0.05361
350
300
250
200
150
100
50

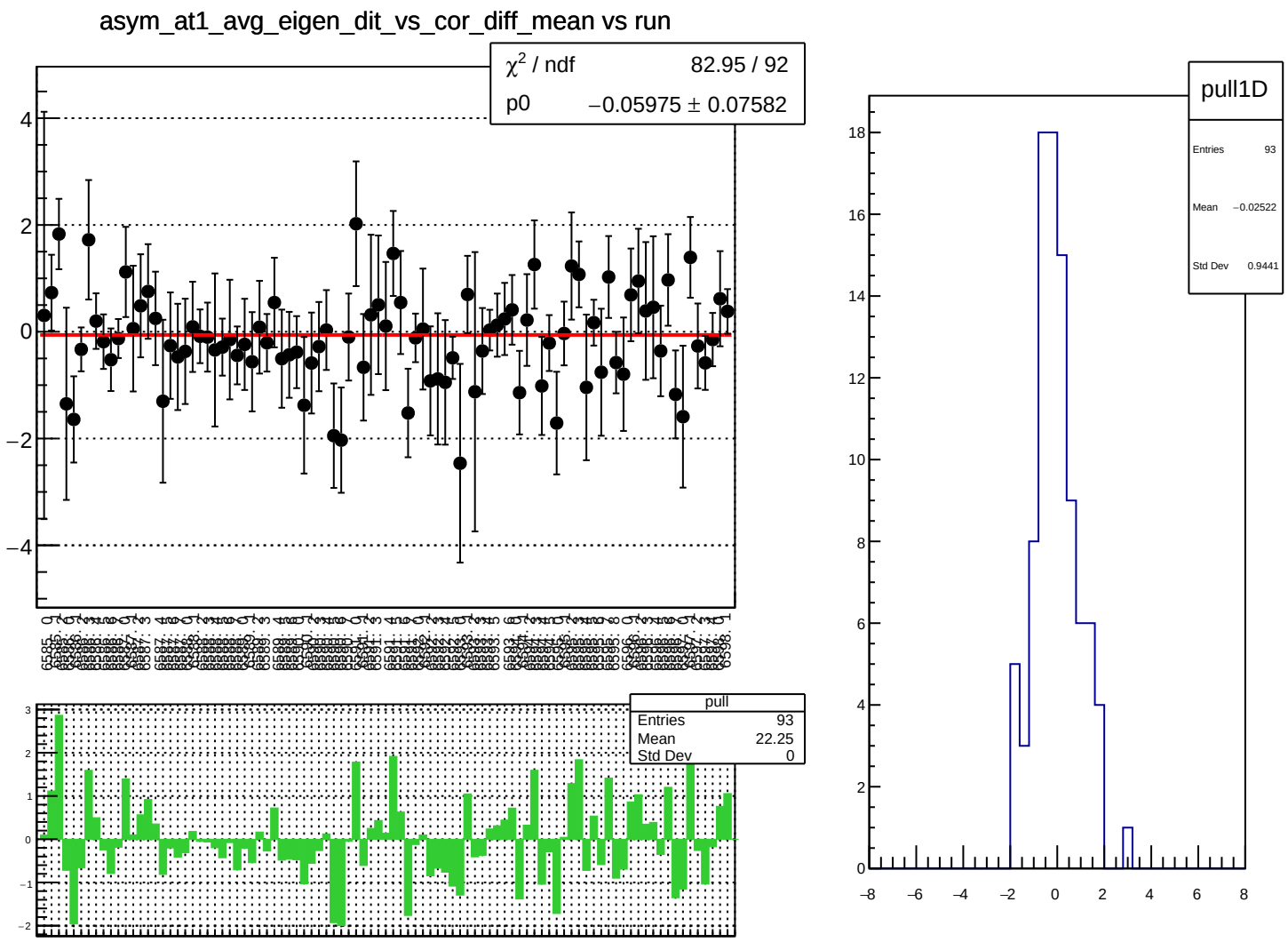

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.95 / 92
p0 −0.05975 ± 0.07582
pull
Entries 93
Mean 22.25
Std Dev 0

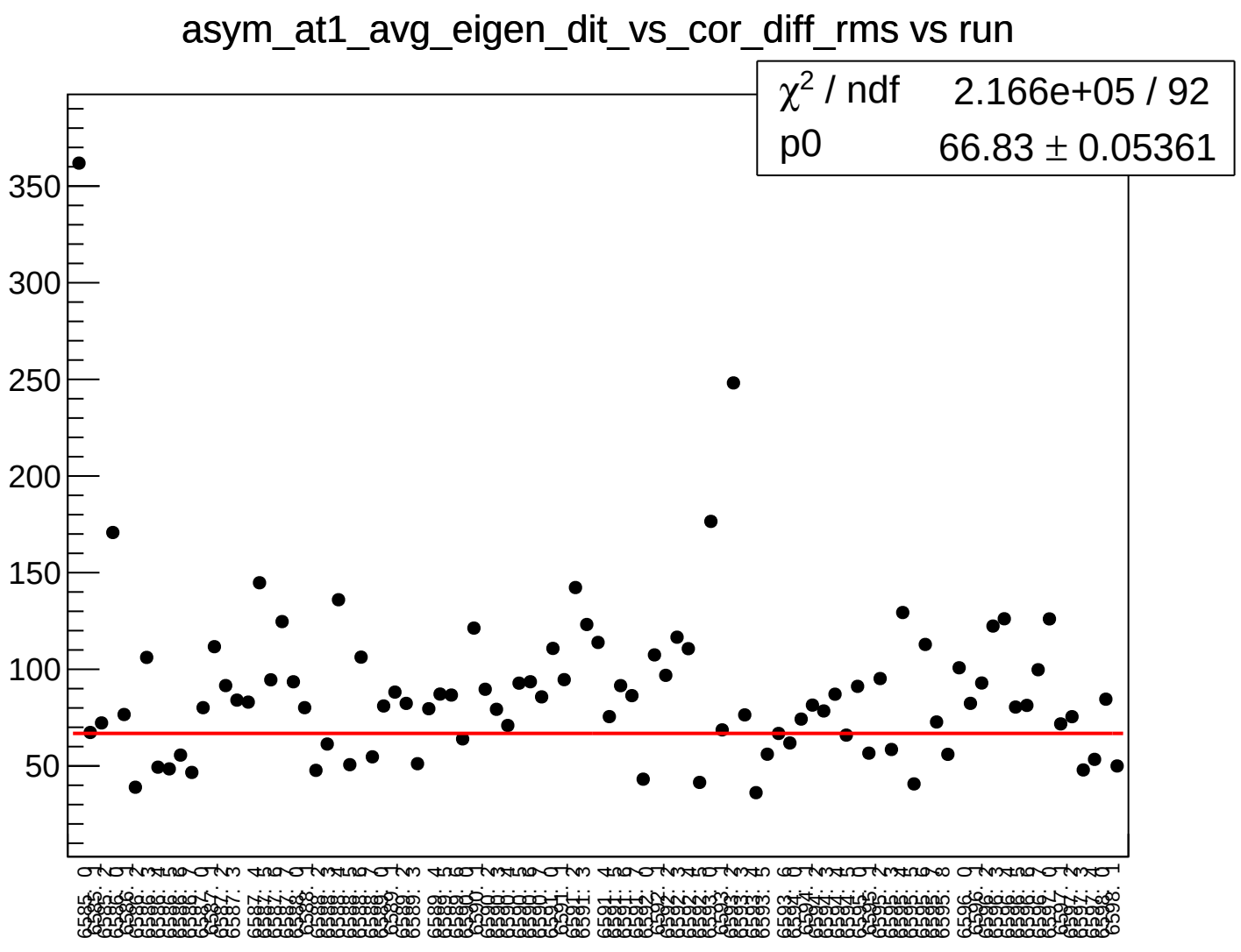

pull1D
Entries 93
Mean −0.02522
Std Dev 0.9441

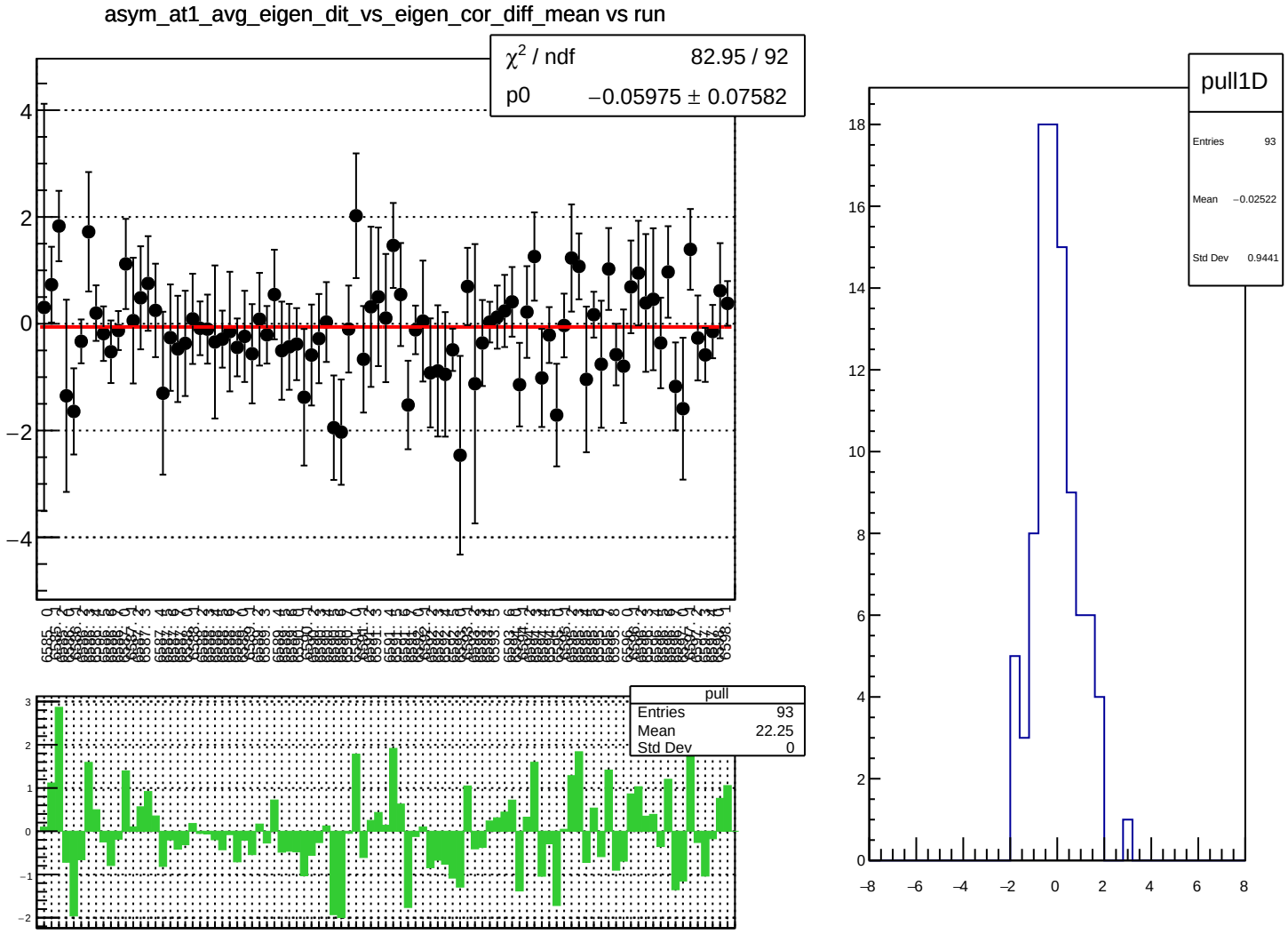

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.166e+05 / 92
p0 66.83 ± 0.05361
350
300
250
200
150
100
50

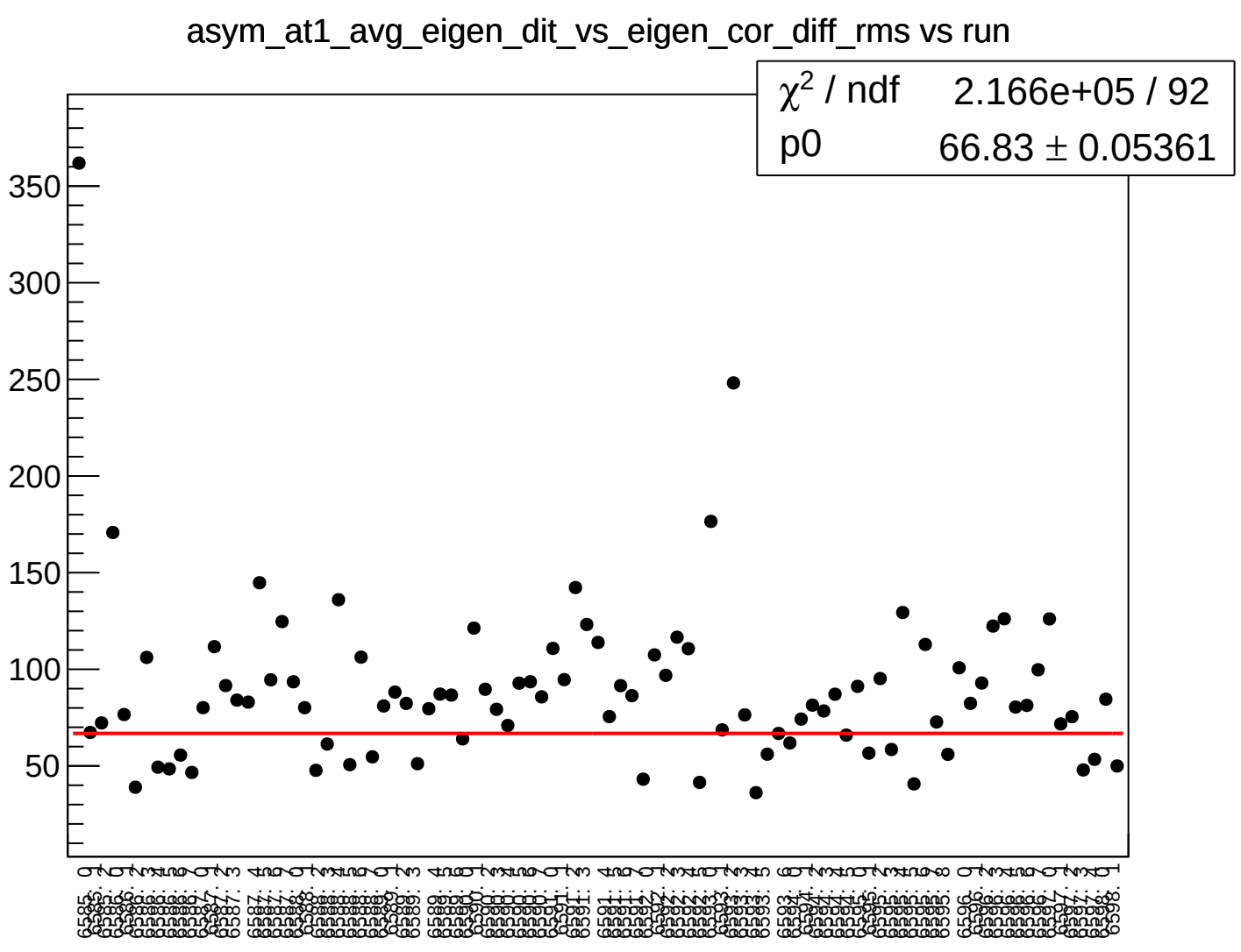

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.52 / 92
p0 1.757e−06 ± 1.64e−06
pull
Entries 93
Mean 1358
Std Dev 0
pull1D
Entries 93
Mean 0.0001687
Std Dev 0.9645

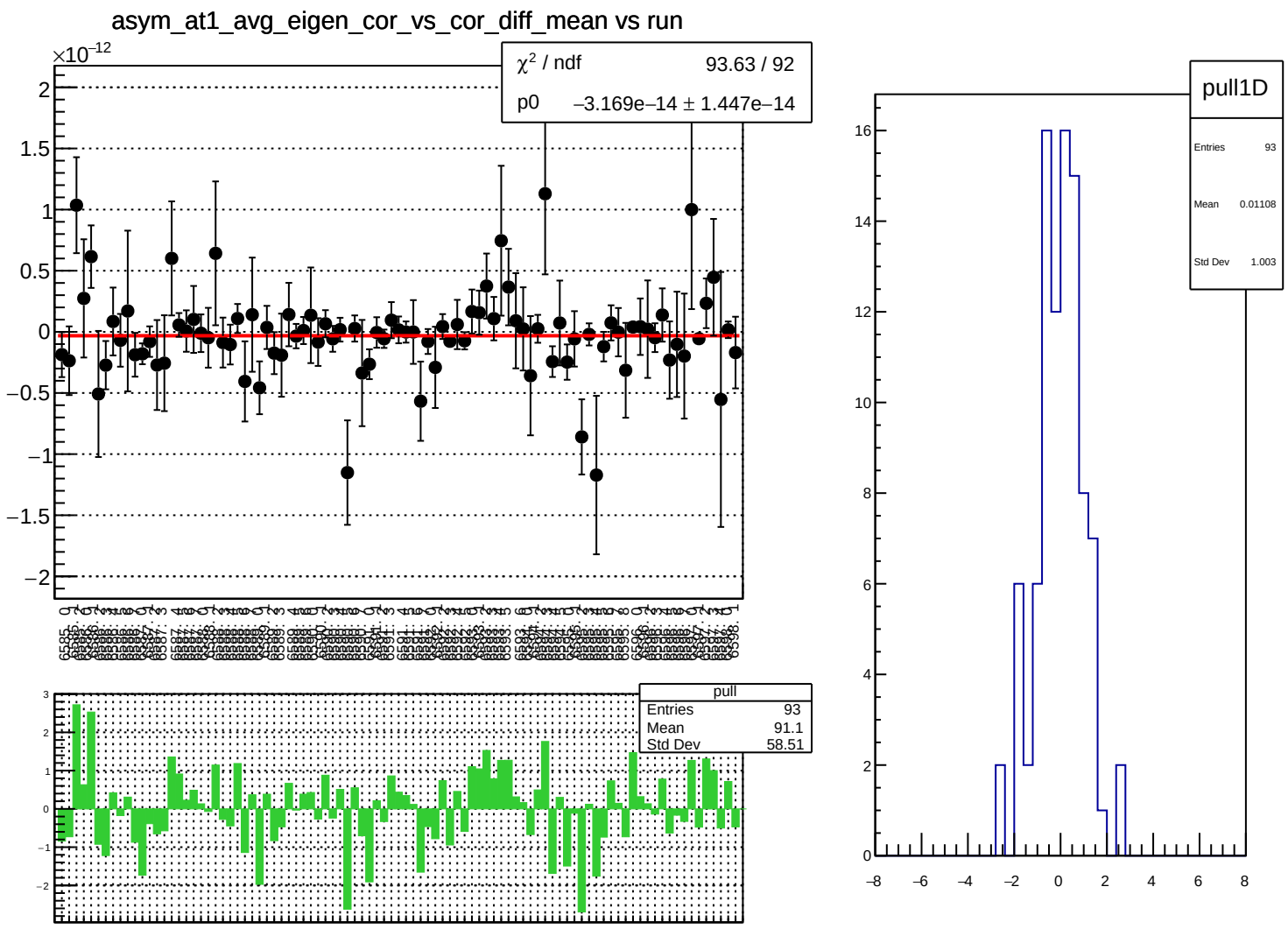

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.265e+04 / 92
p0 0.001538 ± 1.16e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

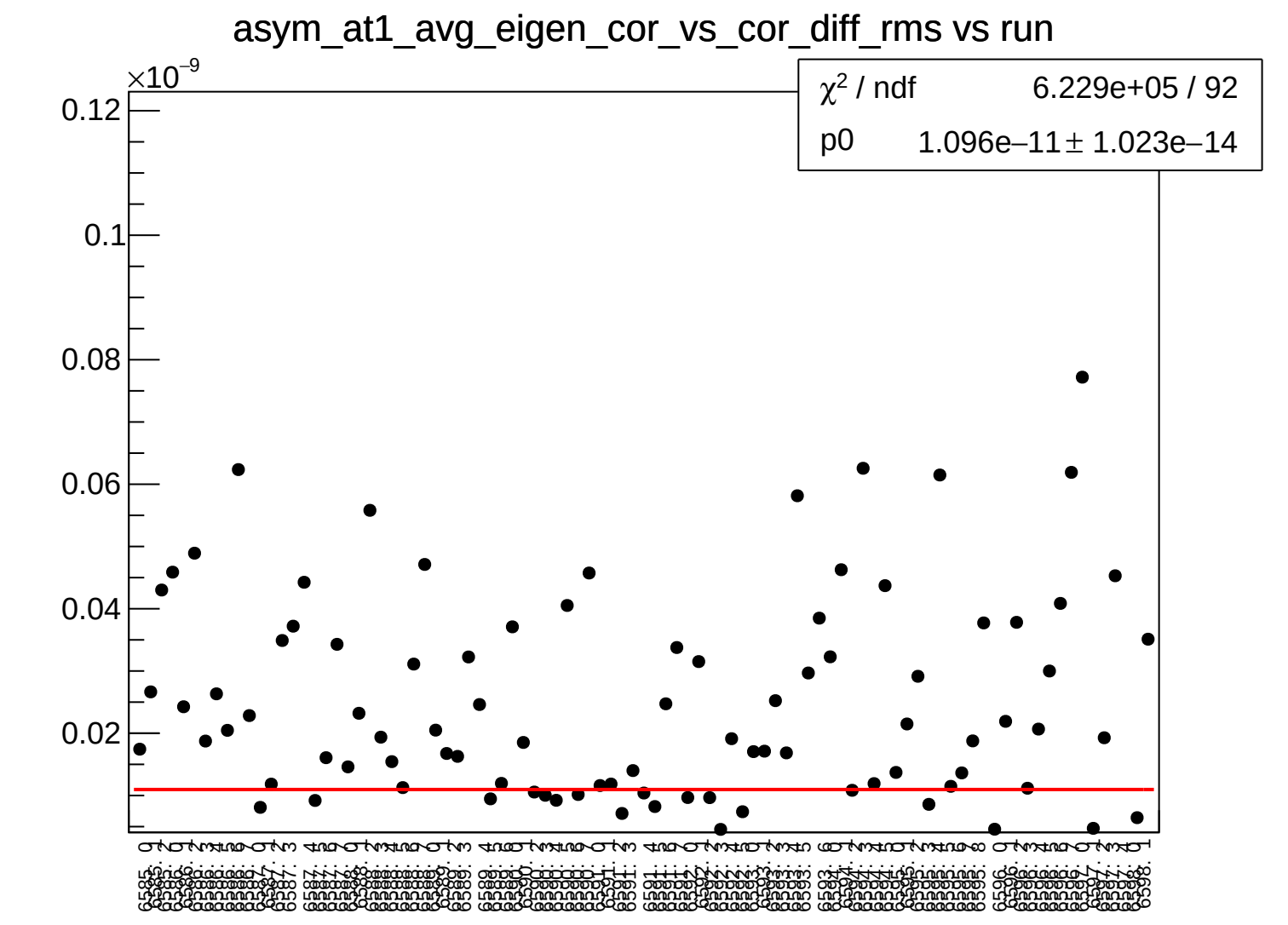

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 92
p0 −0.05975 ± 0.07582
pull
Entries 93
Mean 22.25
Std Dev 0
pull1D
Entries 93
Mean −0.02522
Std Dev 0.9441

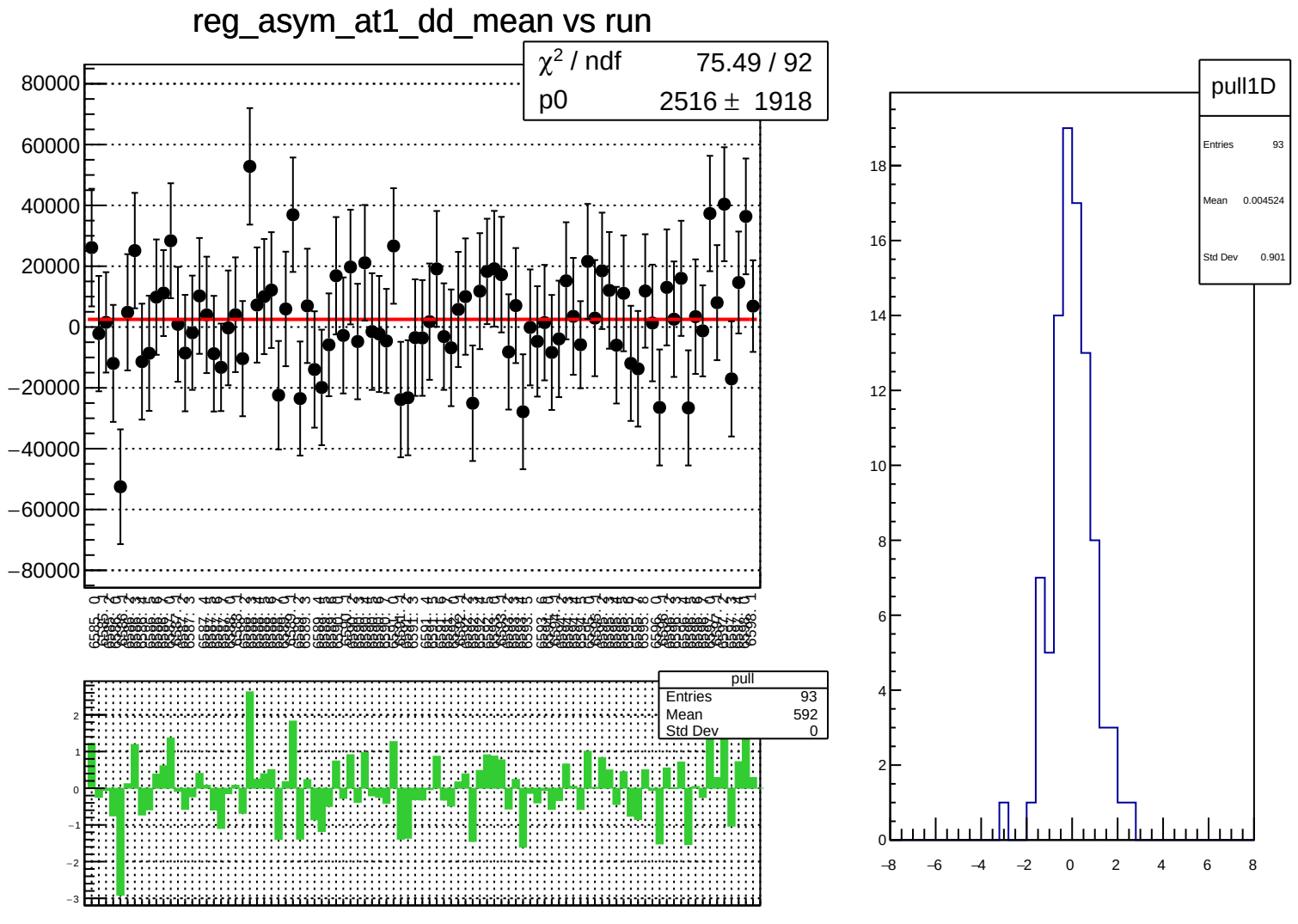

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.166e+05 / 92
p0 66.83 ± 0.05361
350
300
250
200
150
100
50

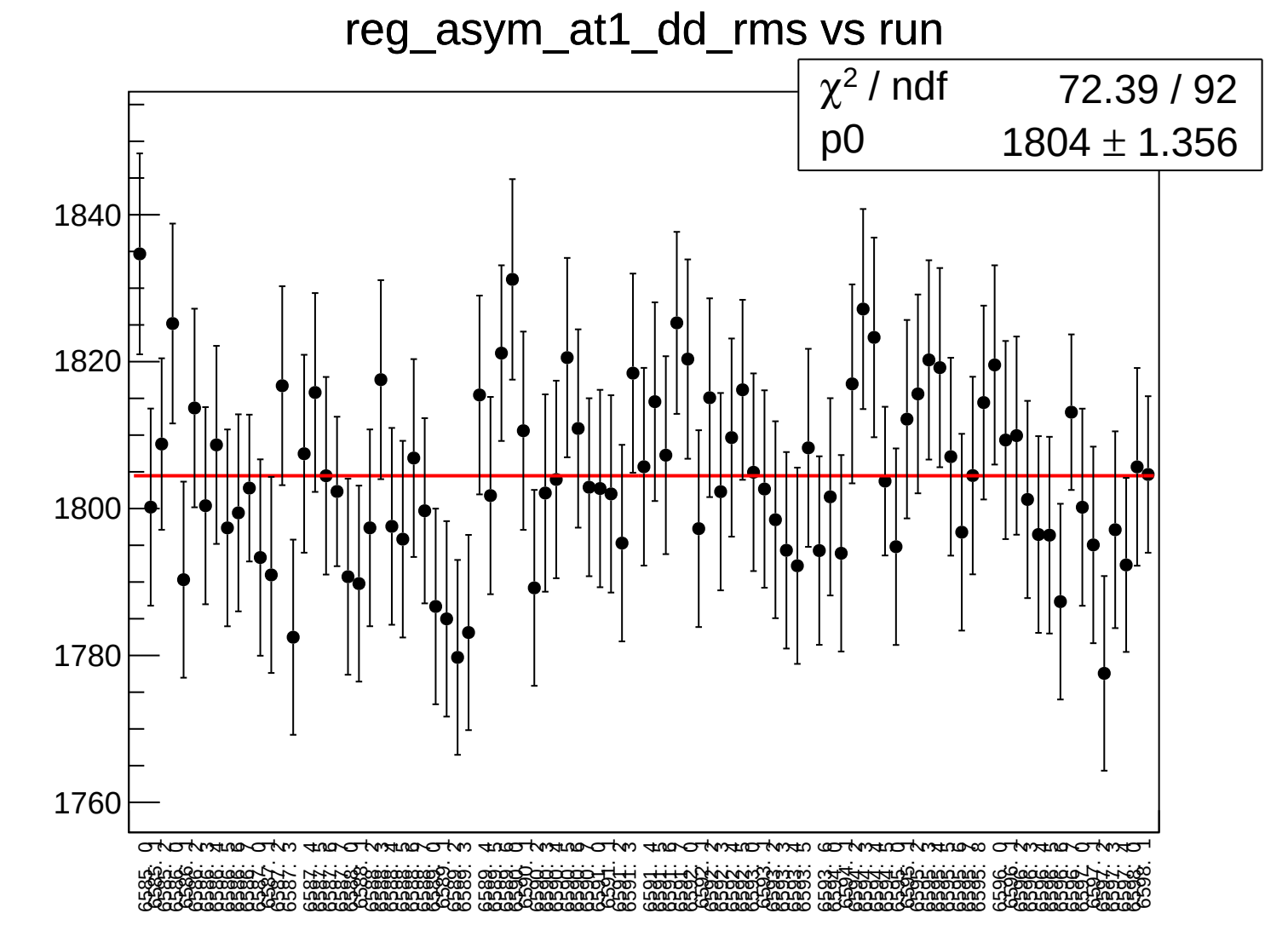

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.95 / 92
p0 −0.05975 ± 0.07582
pull
Entries 93
Mean 22.25
Std Dev 0
pull1D
Entries 93
Mean −0.02522
Std Dev 0.9441

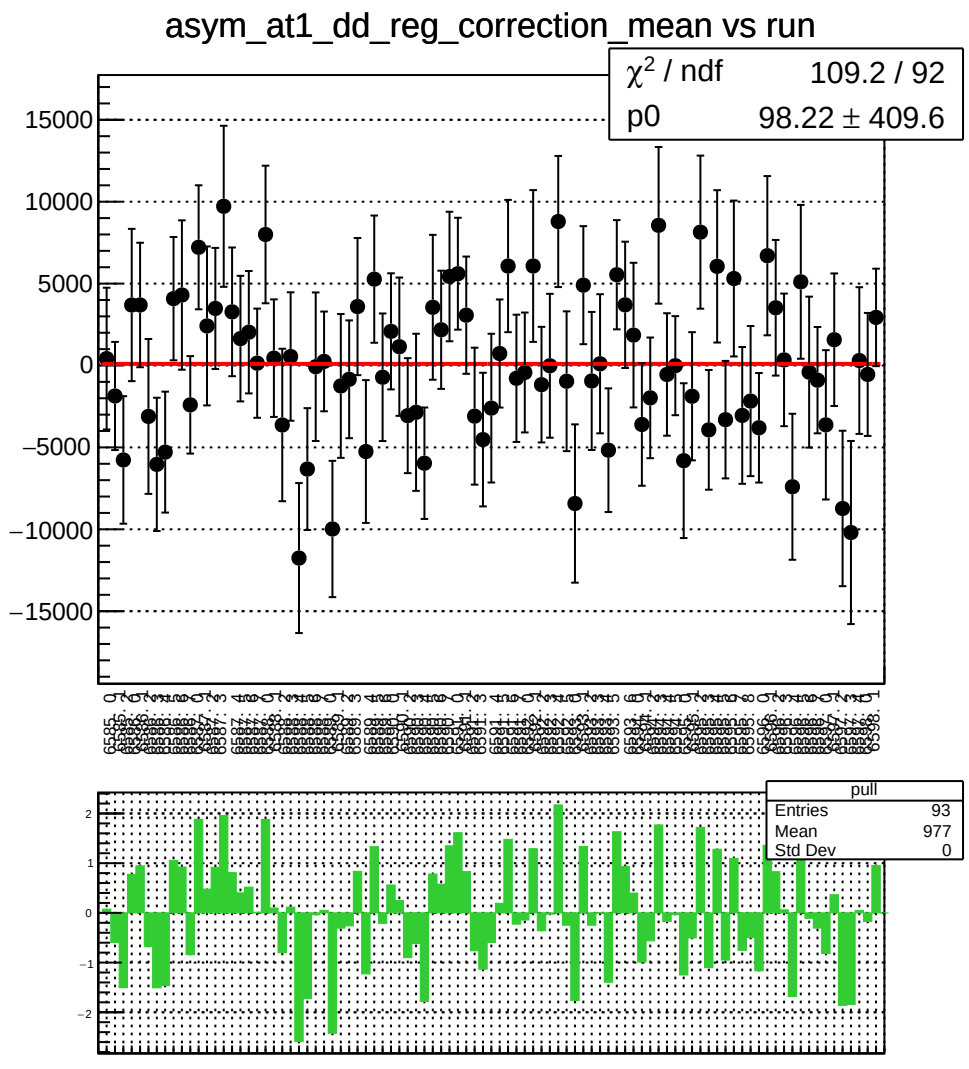

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.166e+05 / 92
p0 66.83 ± 0.05361
350
300
250
200
150
100
50

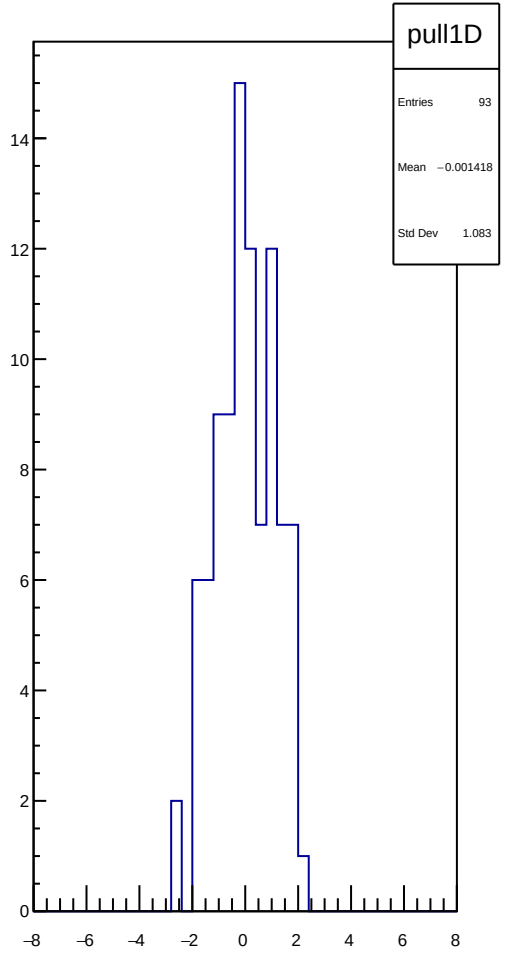

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 93.63 / 92
p0 −3.169e−14 ± 1.447e−14
pull
Entries 93
Mean 91.1
Std Dev 58.51
pull1D
Entries 93
Mean 0.01108
Std Dev 1.003

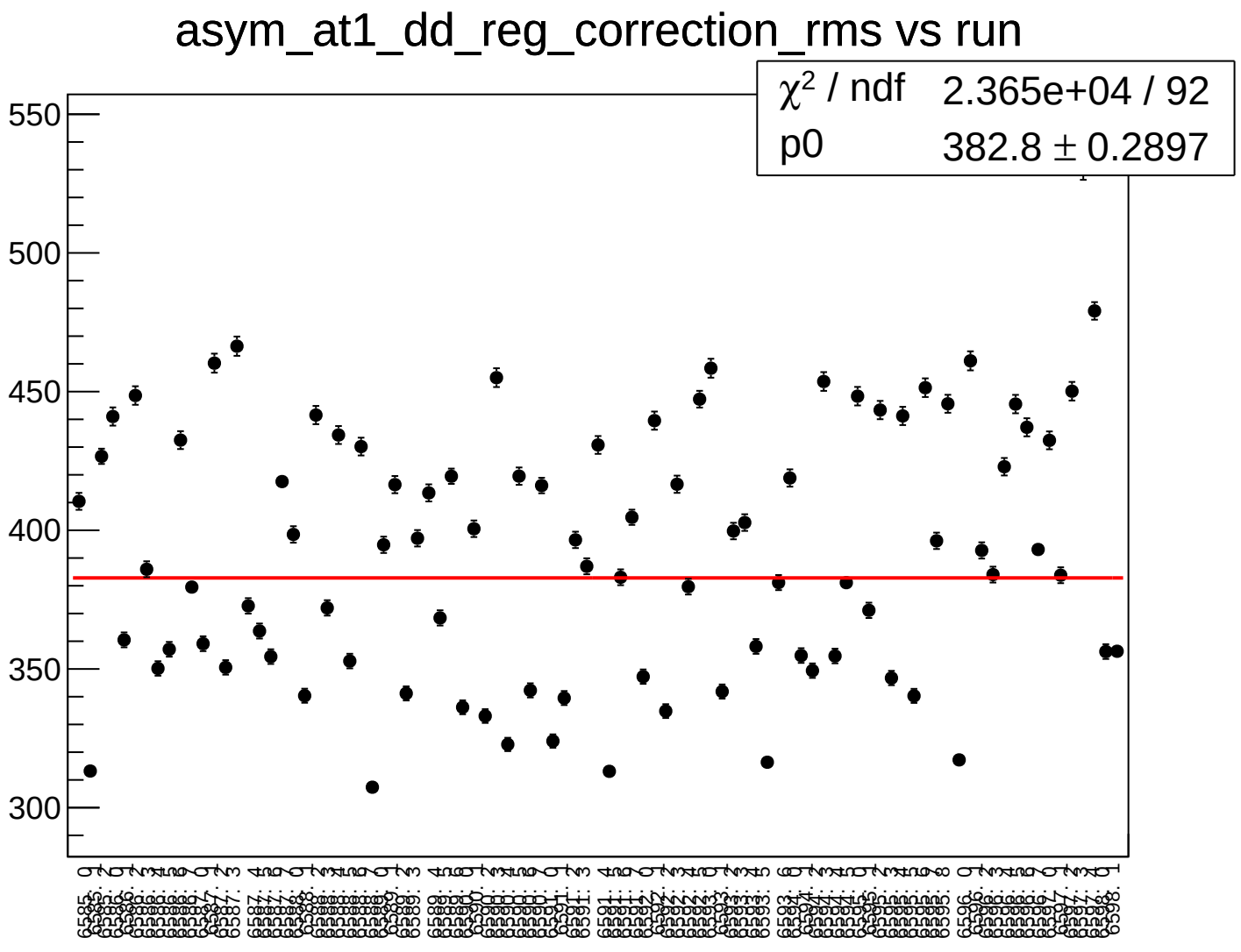

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.229e+05 / 92
p0 1.096e−11 ± 1.023e−14
0.12
0.1
0.08
0.06
0.04
0.02

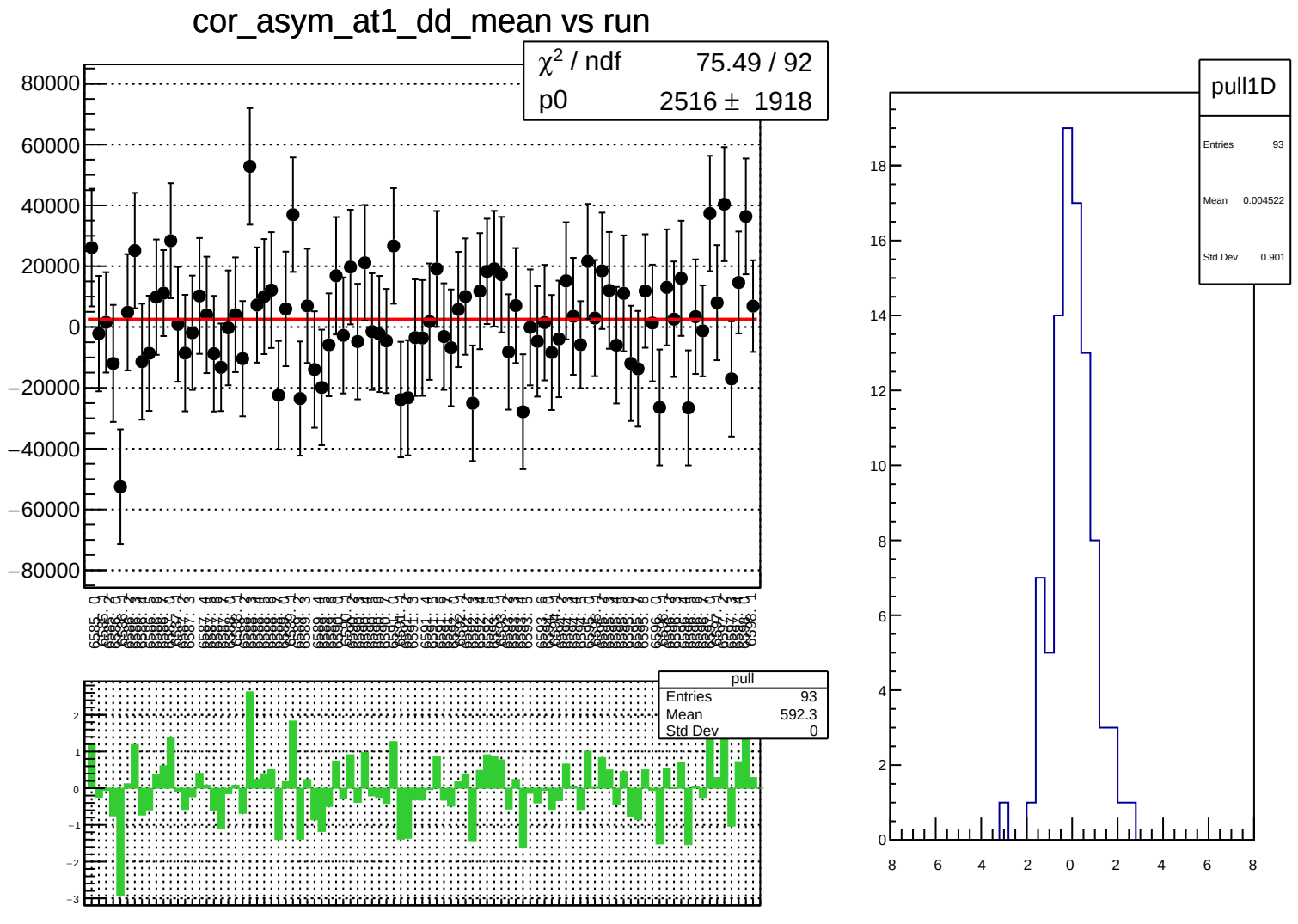

reg_asym_at1_dd_mean vs run
χ² / ndf 75.49 / 92
p0 2516 ± 1918
pull
Entries 93
Mean 592
Std Dev 0
pull1D
Entries 93
Mean 0.004524
Std Dev 0.901

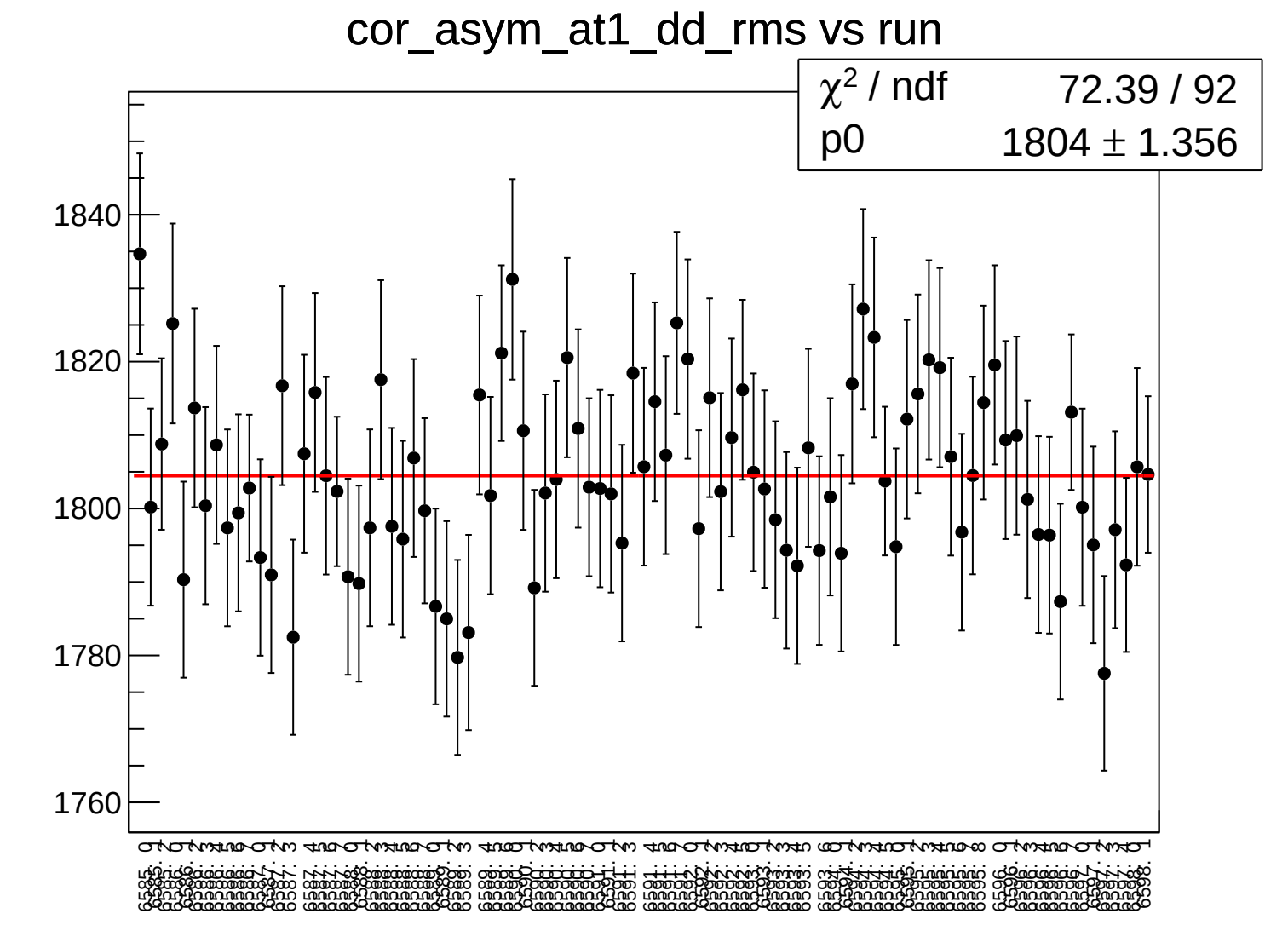

reg_asym_at1_dd_rms vs run
χ² / ndf 72.39 / 92
p0 1804 ± 1.356
1840
1820
1800
1780
1760

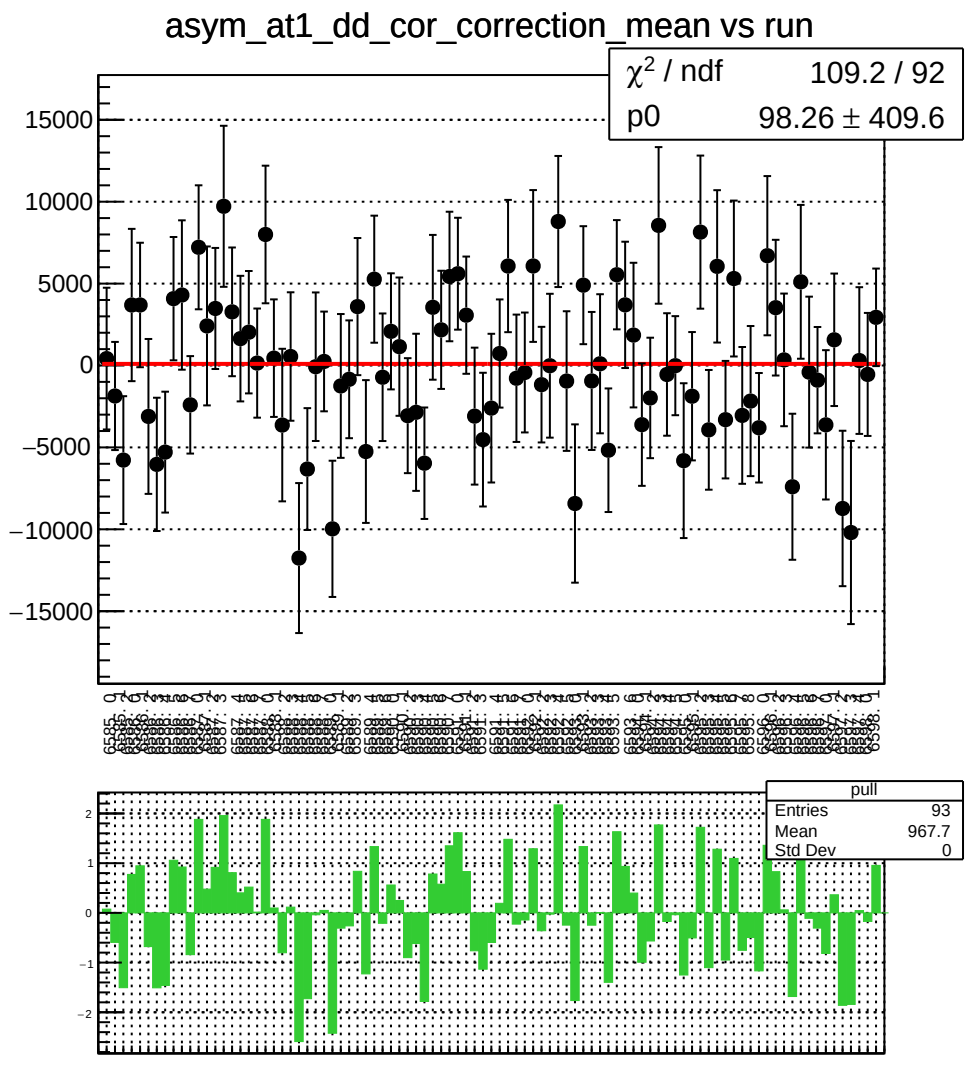

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 109.2 / 92
p0 98.22 ± 409.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 977
Std Dev 0
2
1
0
−1
−2

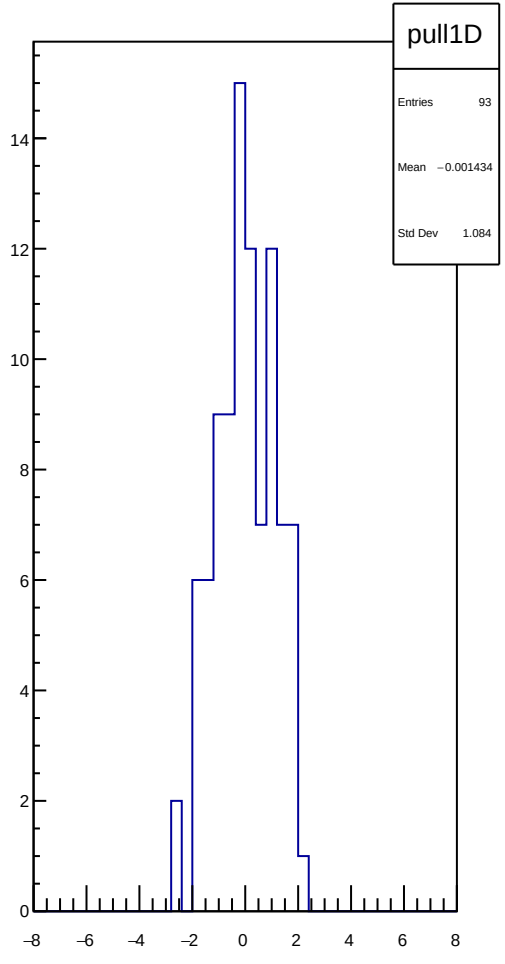

pull1D
Entries 93
Mean −0.001418
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

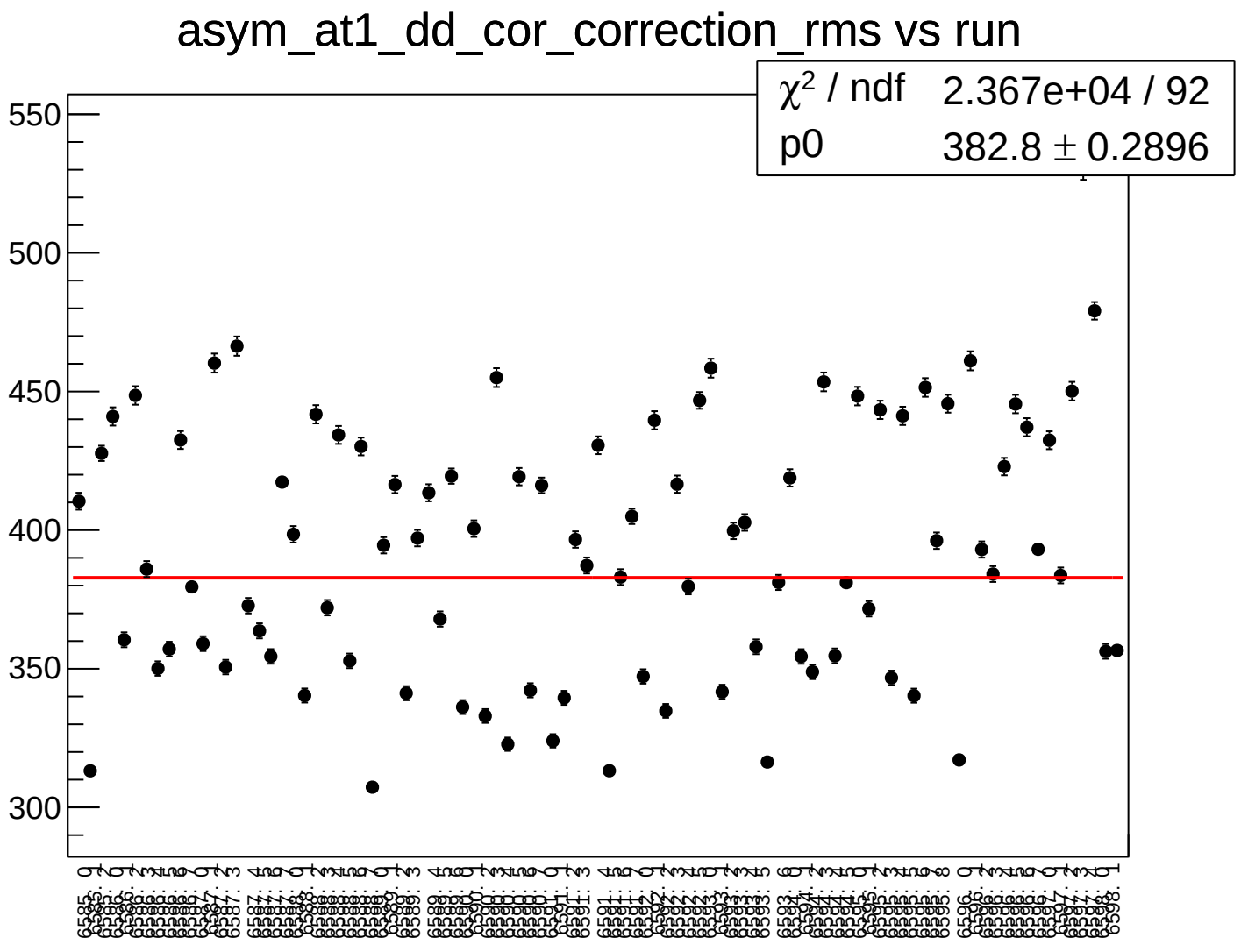

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 2.365e+04 / 92
p0 382.8 ± 0.2897
550
500
450
400
350
300

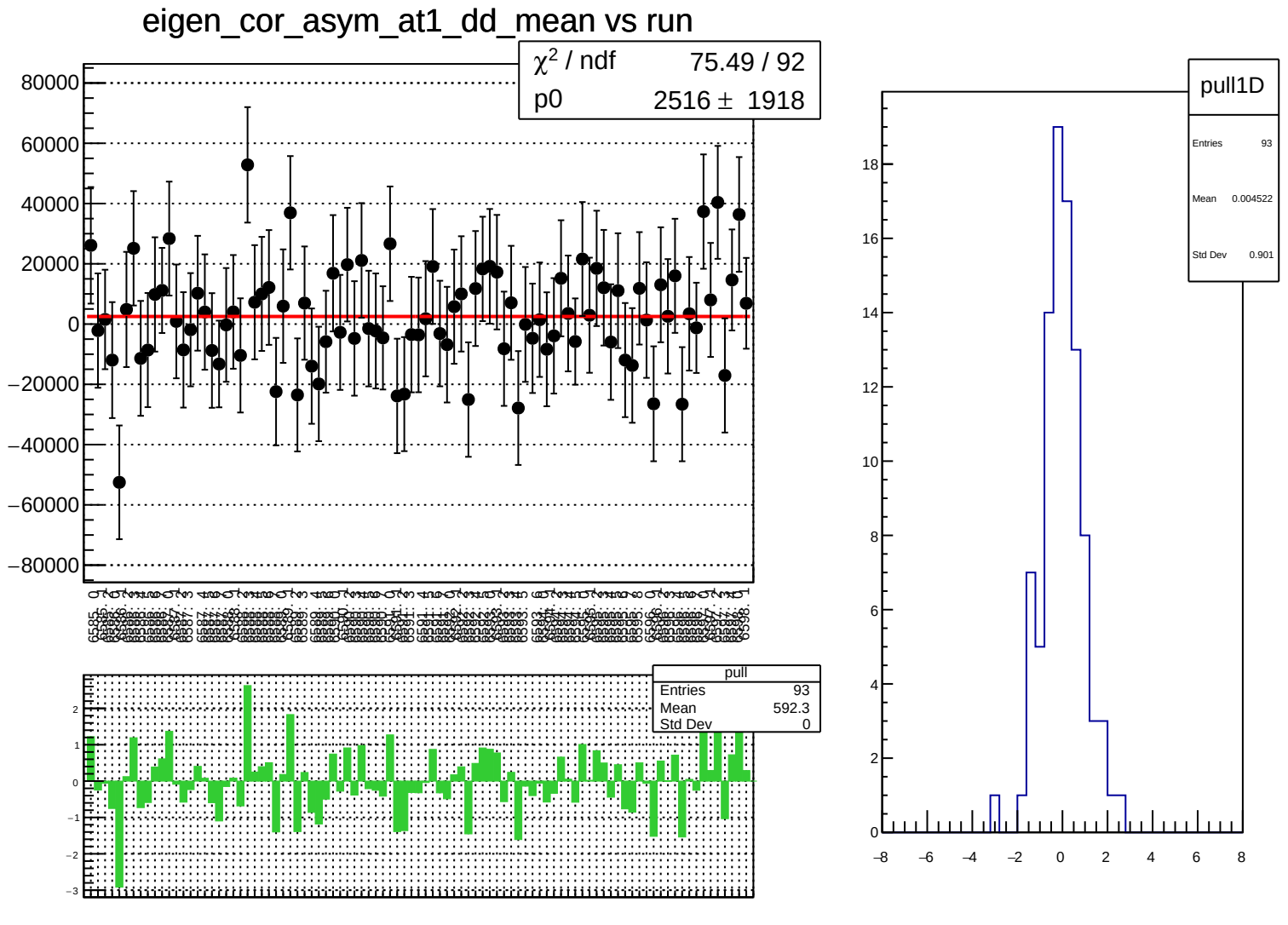

cor_asym_at1_dd_mean vs run
χ² / ndf 75.49 / 92
p0 2516 ± 1918
pull
Entries 93
Mean 592.3
Std Dev 0
pull1D
Entries 93
Mean 0.004522
Std Dev 0.901

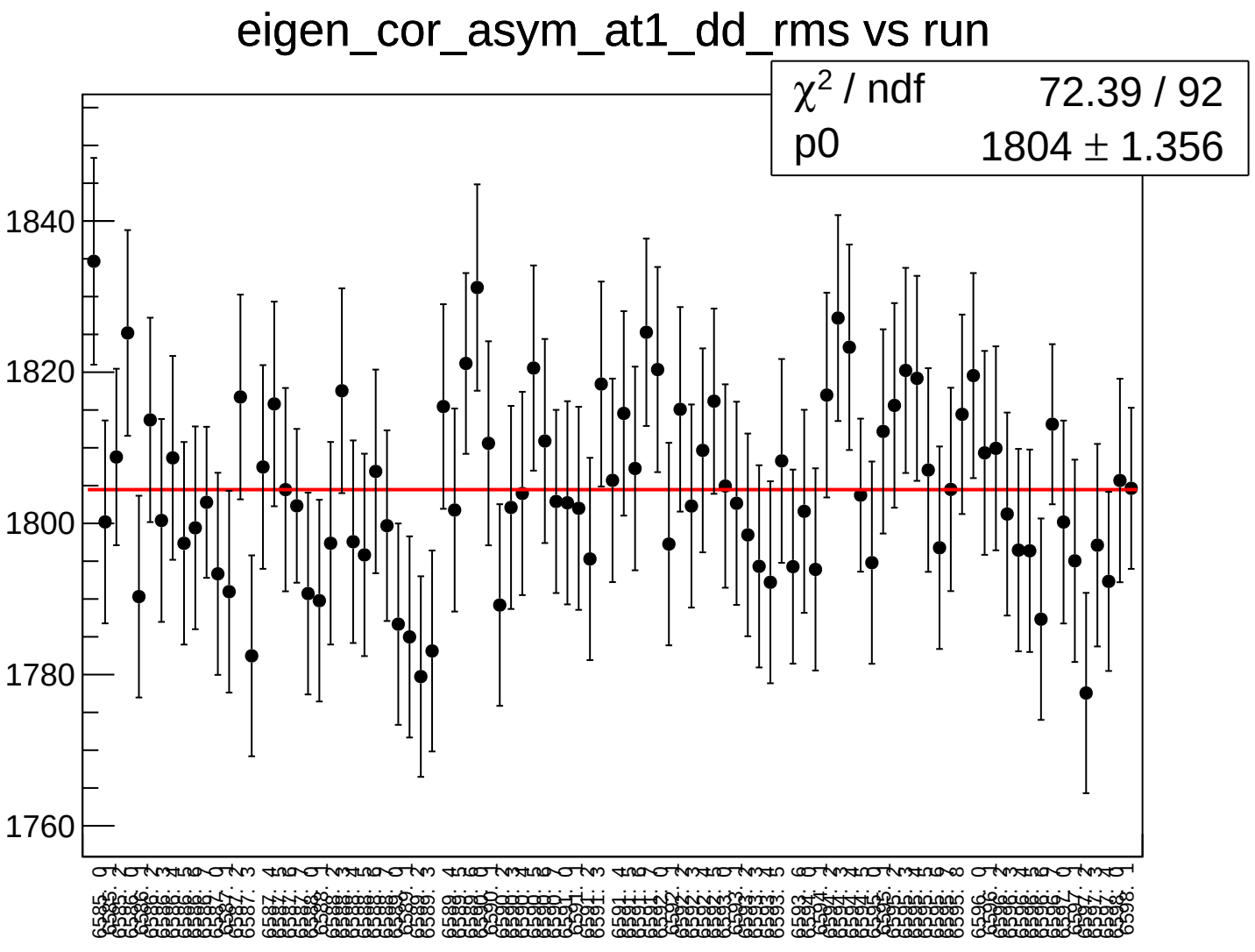

cor_asym_at1_dd_rms vs run
χ^2 / ndf 72.39 / 92
p0 1804 ± 1.356
1840
1820
1800
1780
1760

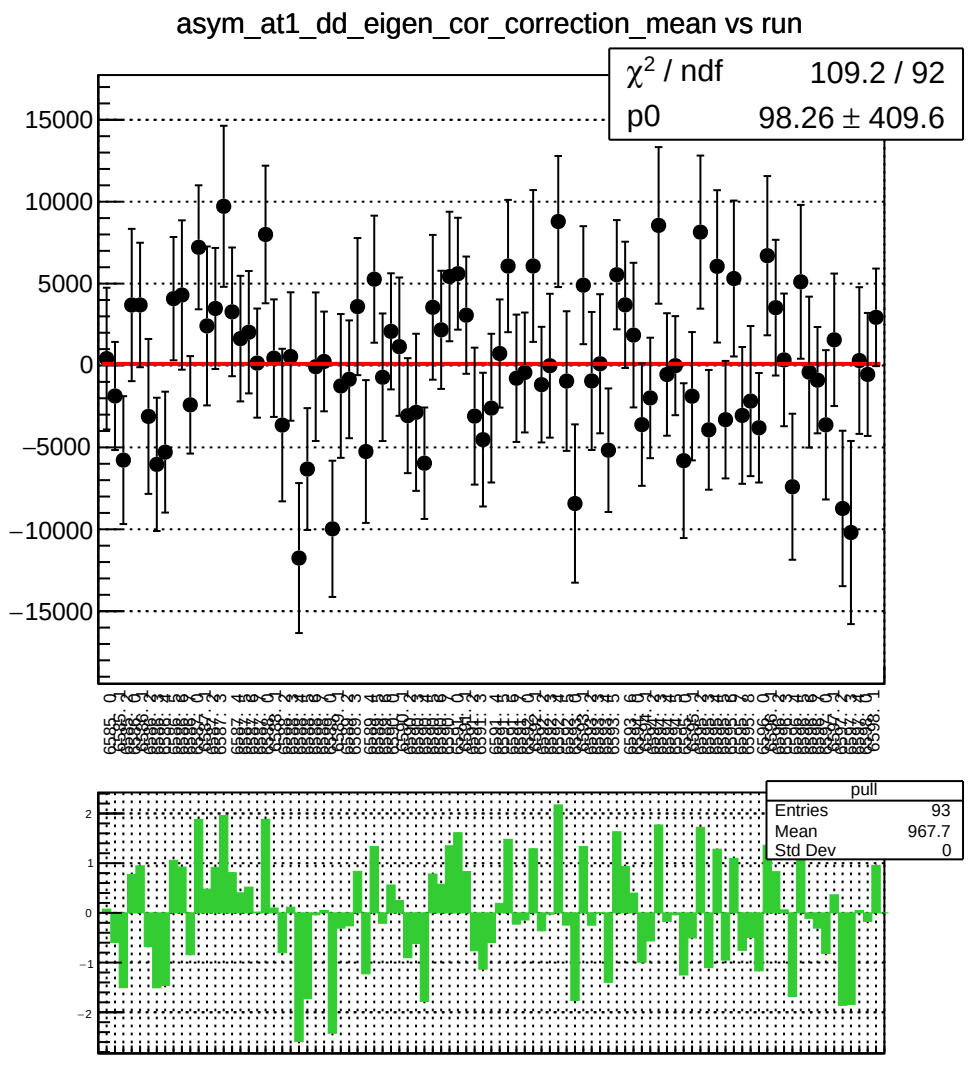

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 109.2 / 92
p0 98.26 ± 409.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 967.7
Std Dev 0
2
1
0
−1
−2

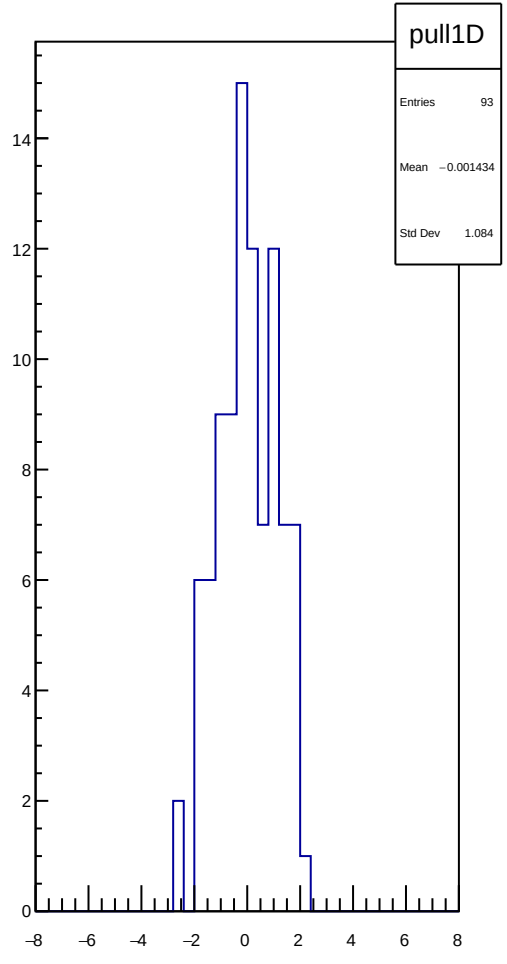

pull1D
Entries 93
Mean −0.001434
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

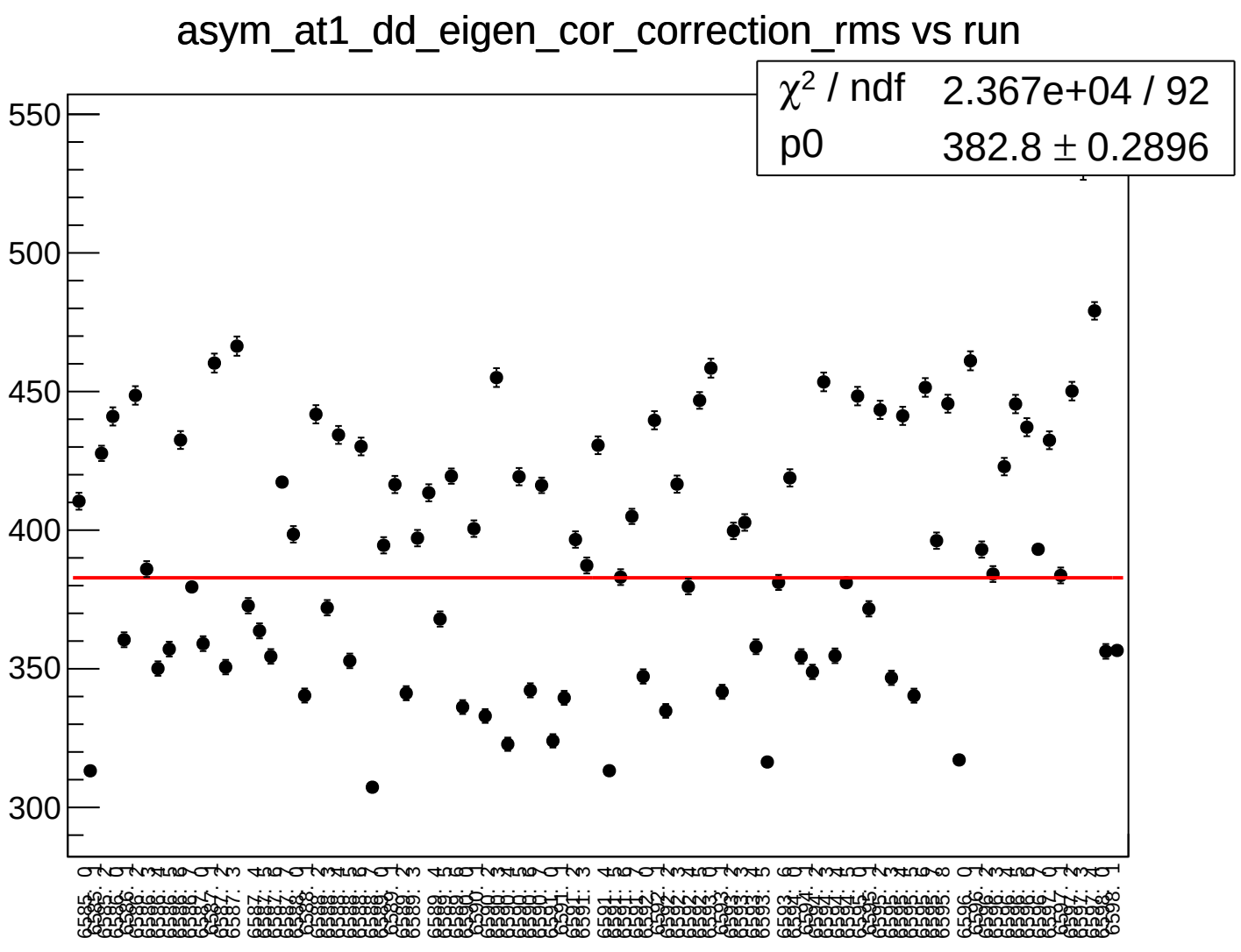

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 2.367e+04 / 92
p0 382.8 ± 0.2896
550
500
450
400
350
300

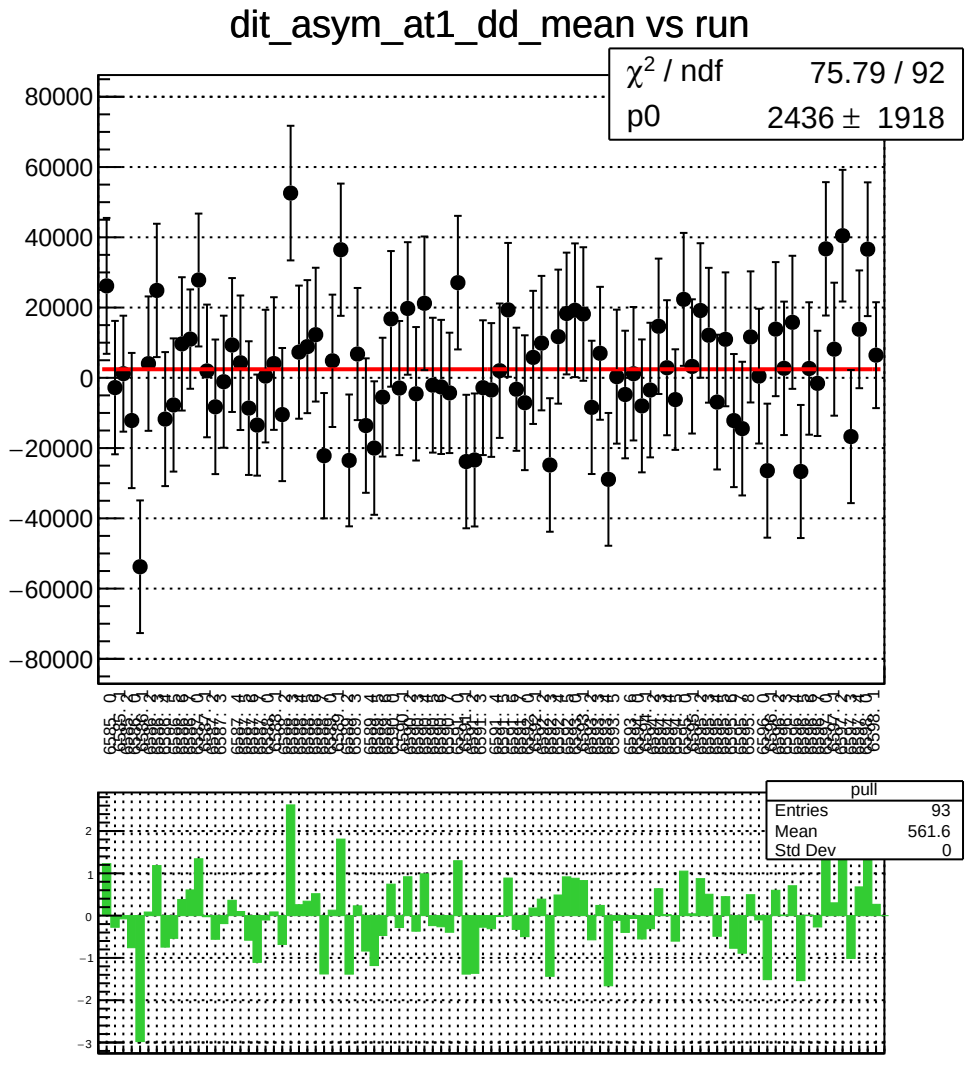

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 75.49 / 92
p0 2516 ± 1918
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 592.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.004522
Std Dev 0.901
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

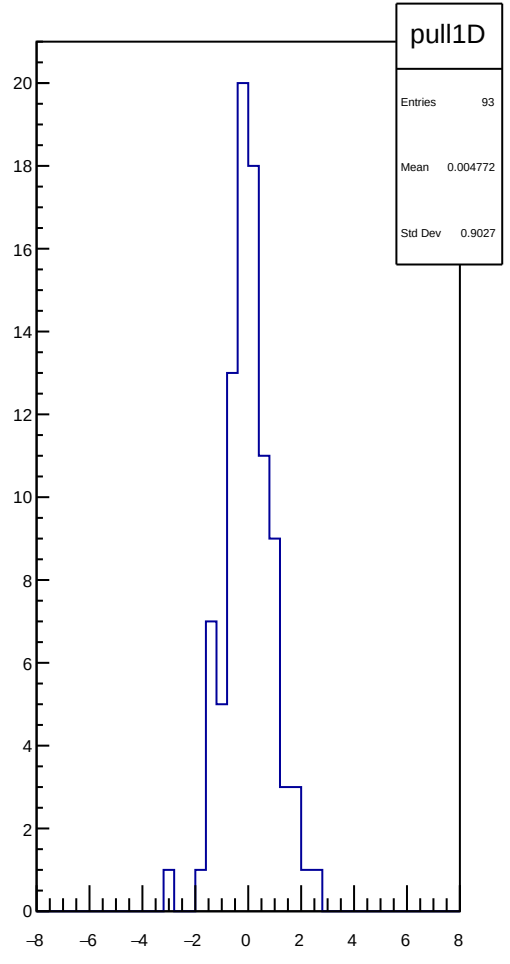

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 72.39 / 92
p0 1804 ± 1.356
1840
1820
1800
1780
1760

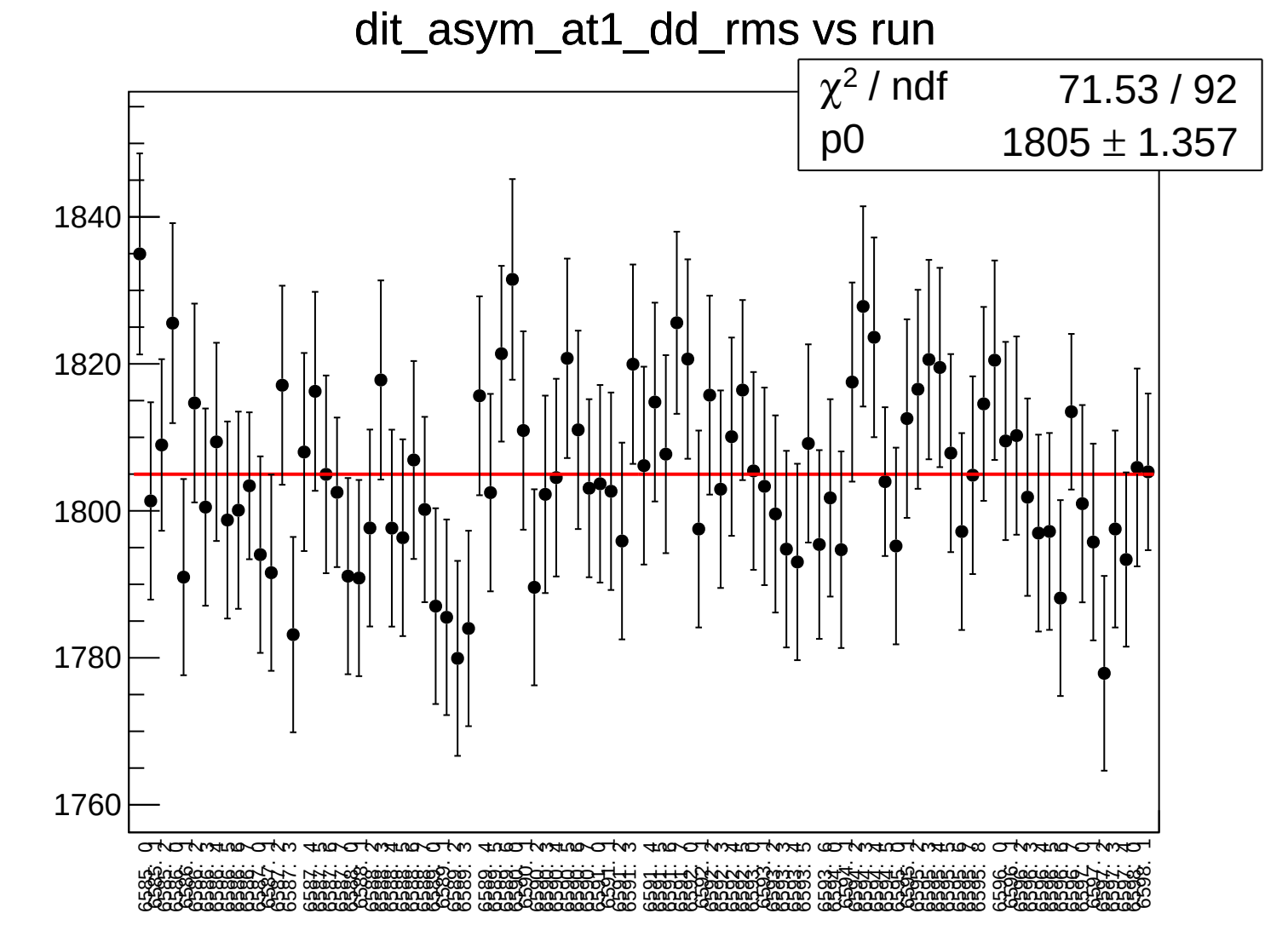

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 109.2 / 92
p0 98.26 ± 409.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 967.7
Std Dev 0
2
1
0
−1
−2

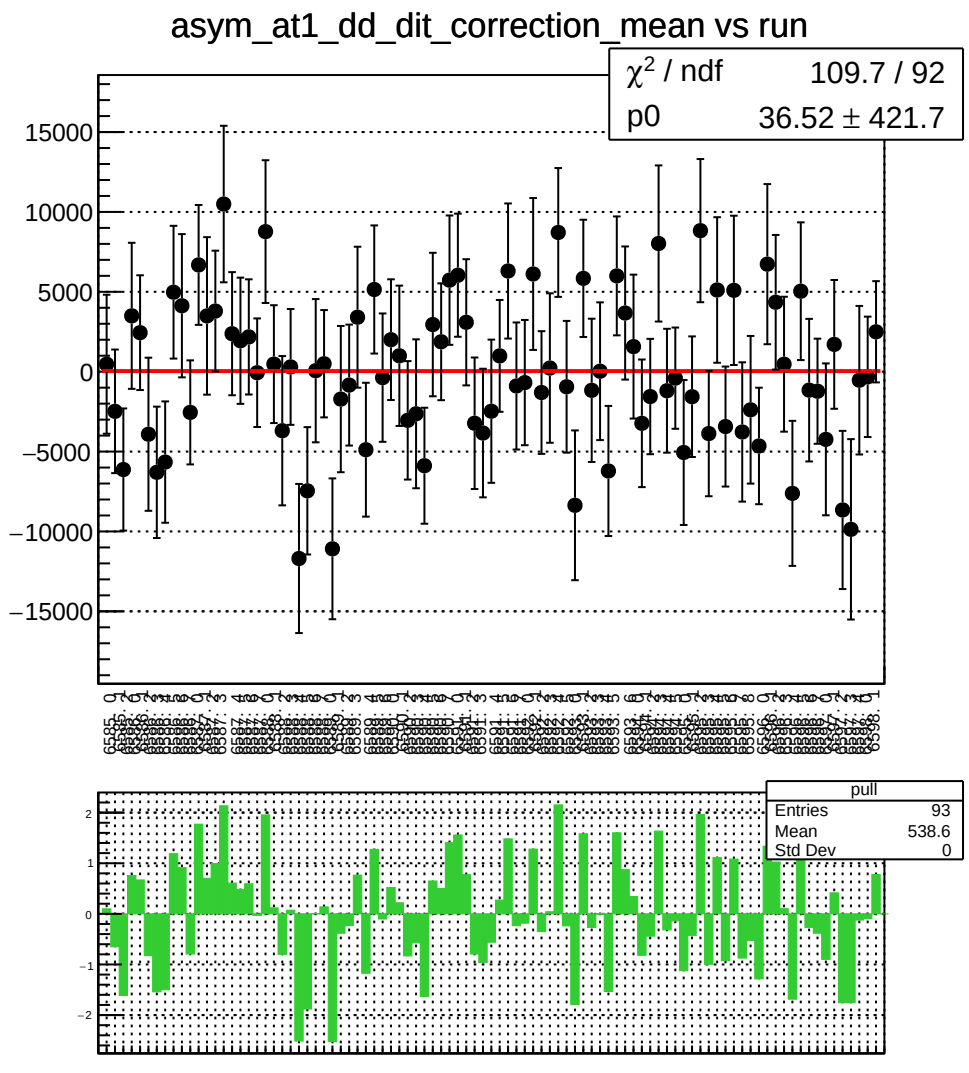

pull1D
Entries 93
Mean −0.001434
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

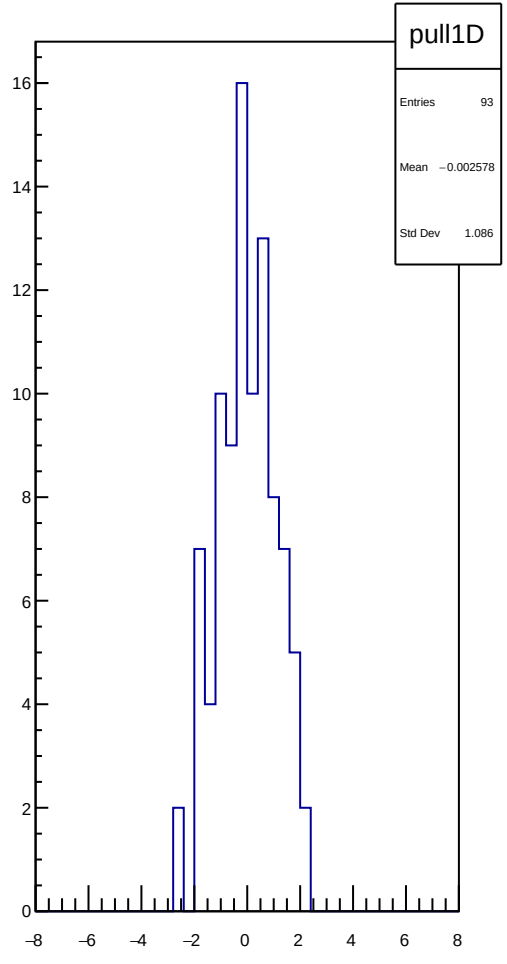

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.367e+04 / 92
p0 382.8 ± 0.2896
550
500
450
400
350
300

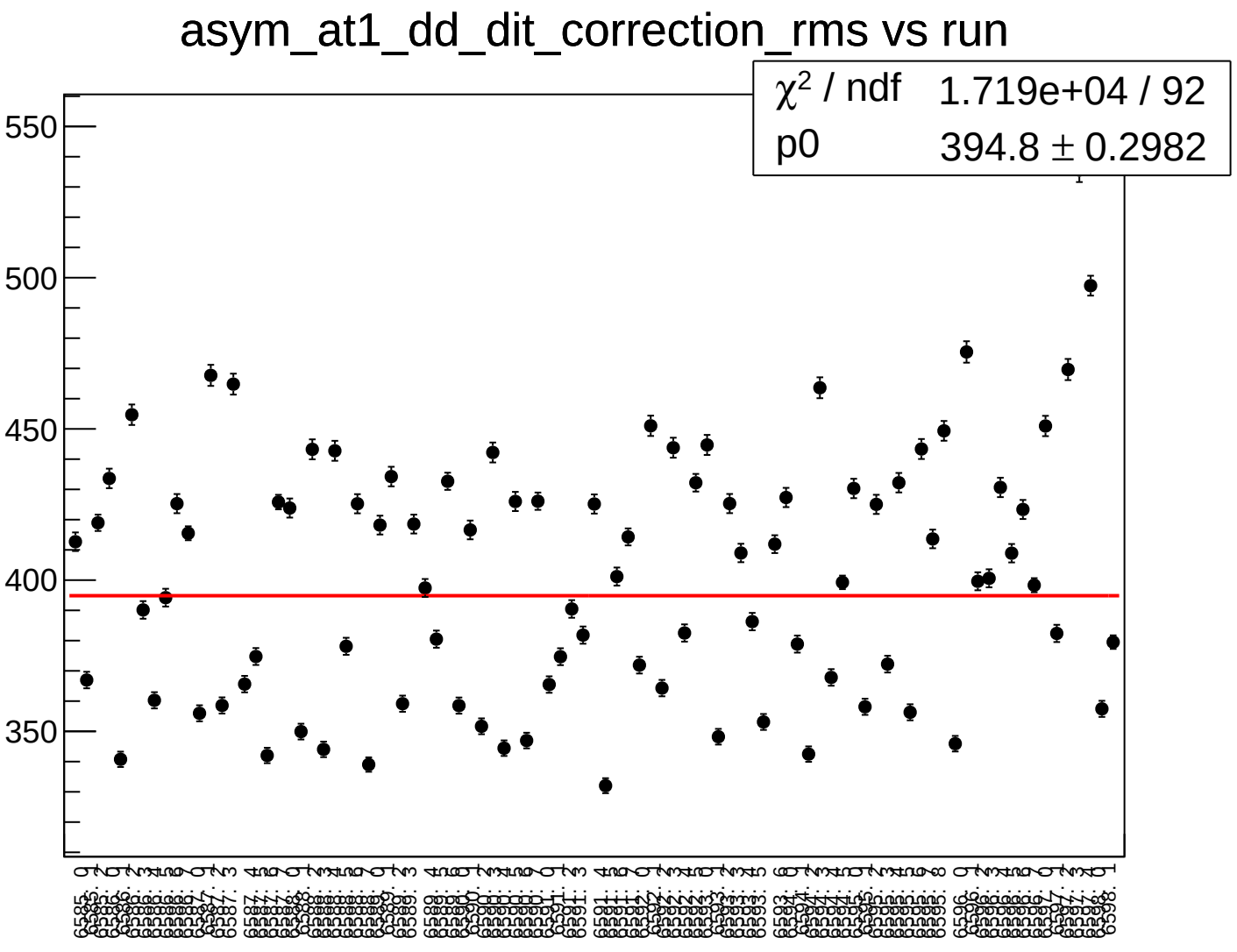

dit_asym_at1_dd_mean vs run
χ² / ndf 75.79 / 92
p0 2436 ± 1918
pull
Entries 93
Mean 561.6
Std Dev 0

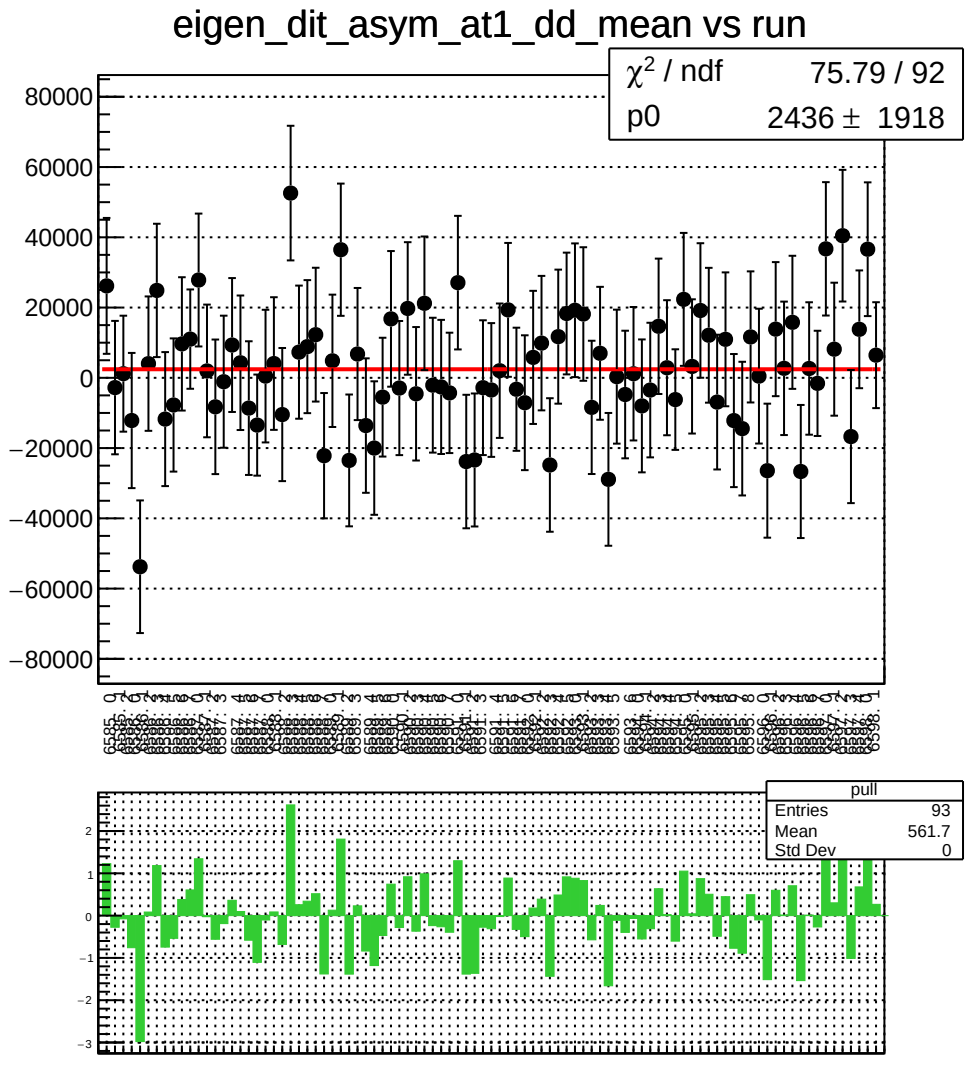

pull1D
Entries 93
Mean 0.004772
Std Dev 0.9027

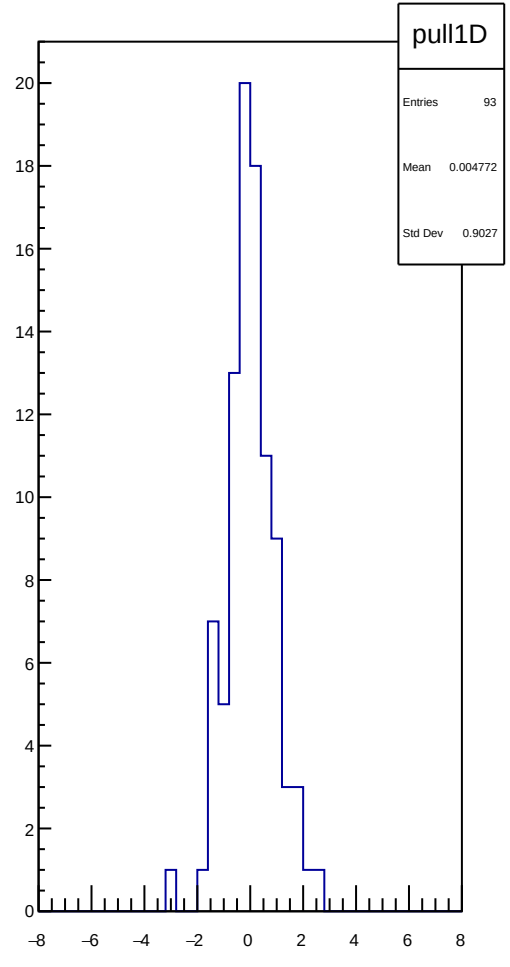

dit_asym_at1_dd_rms vs run
χ² / ndf 71.53 / 92
p0 1805 ± 1.357
1840
1820
1800
1780
1760

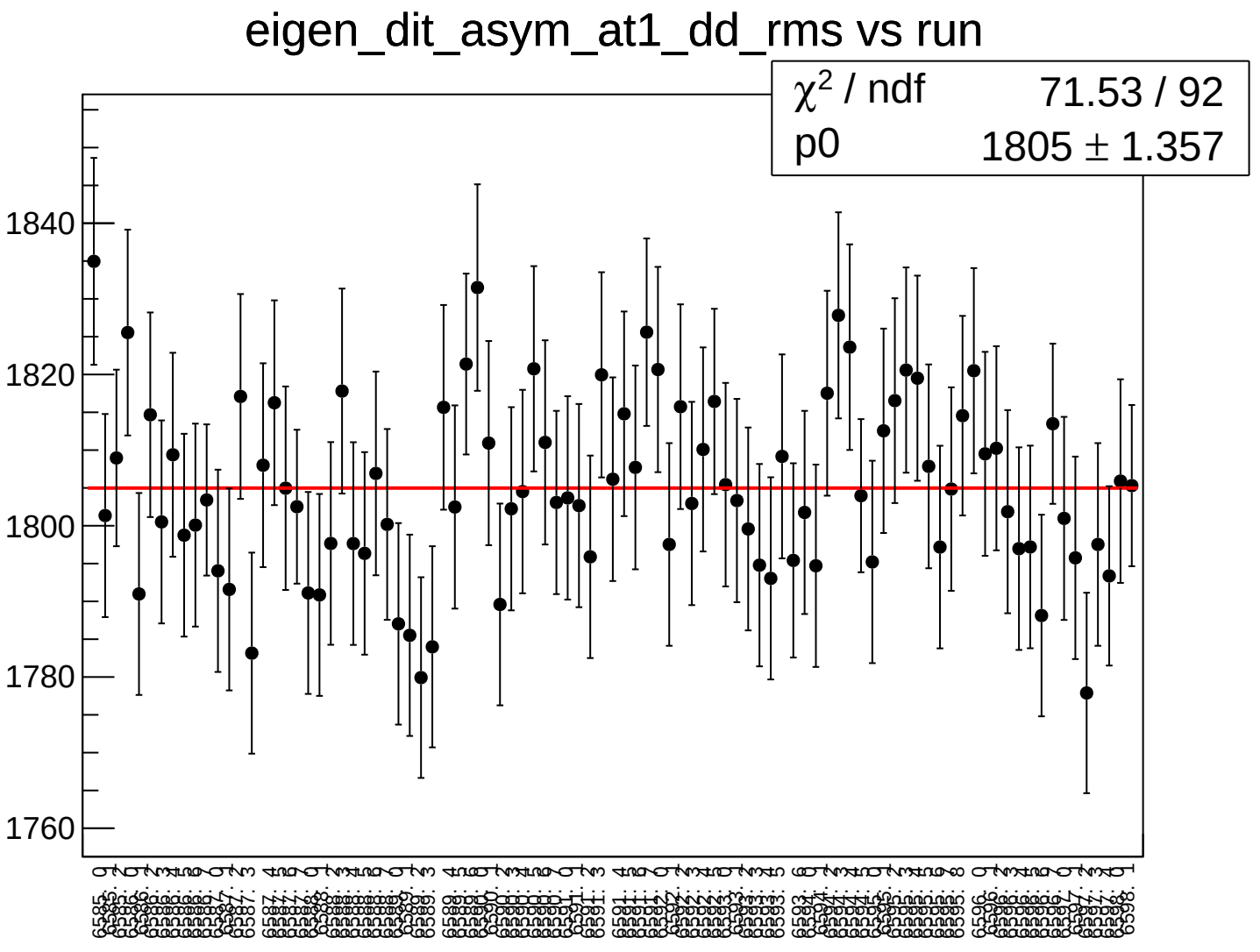

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 109.7 / 92
p0 36.52 ± 421.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 538.6
Std Dev 0
2
1
0
−1
−2

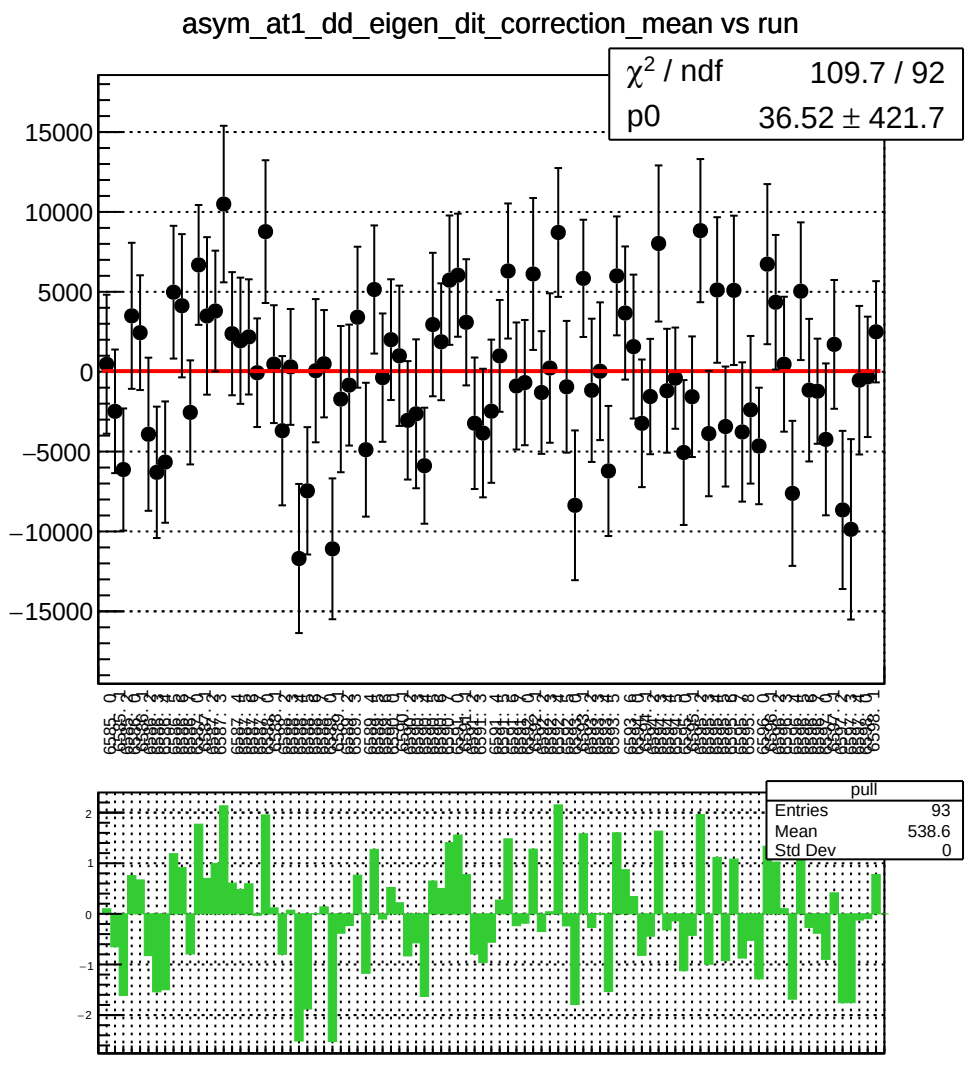

pull1D
Entries 93
Mean −0.002578
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

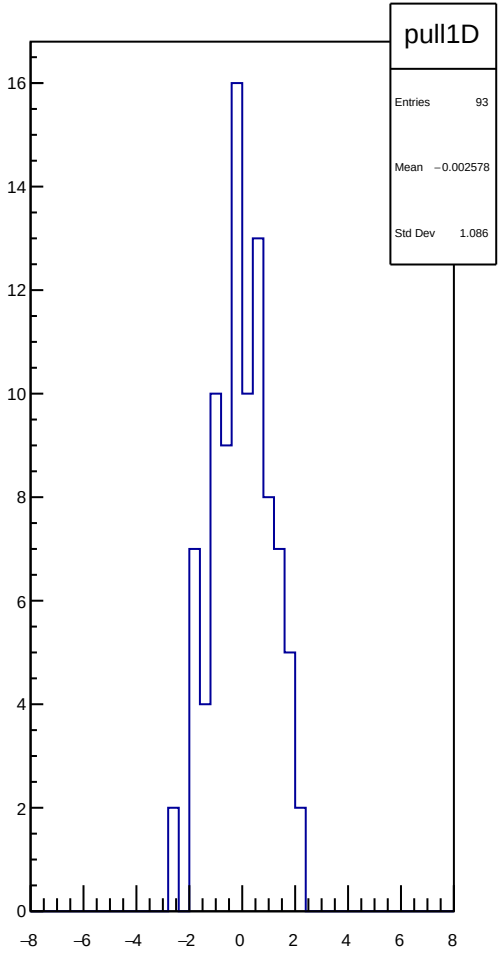

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.719e+04 / 92
p0 394.8 ± 0.2982
550
500
450
400
350

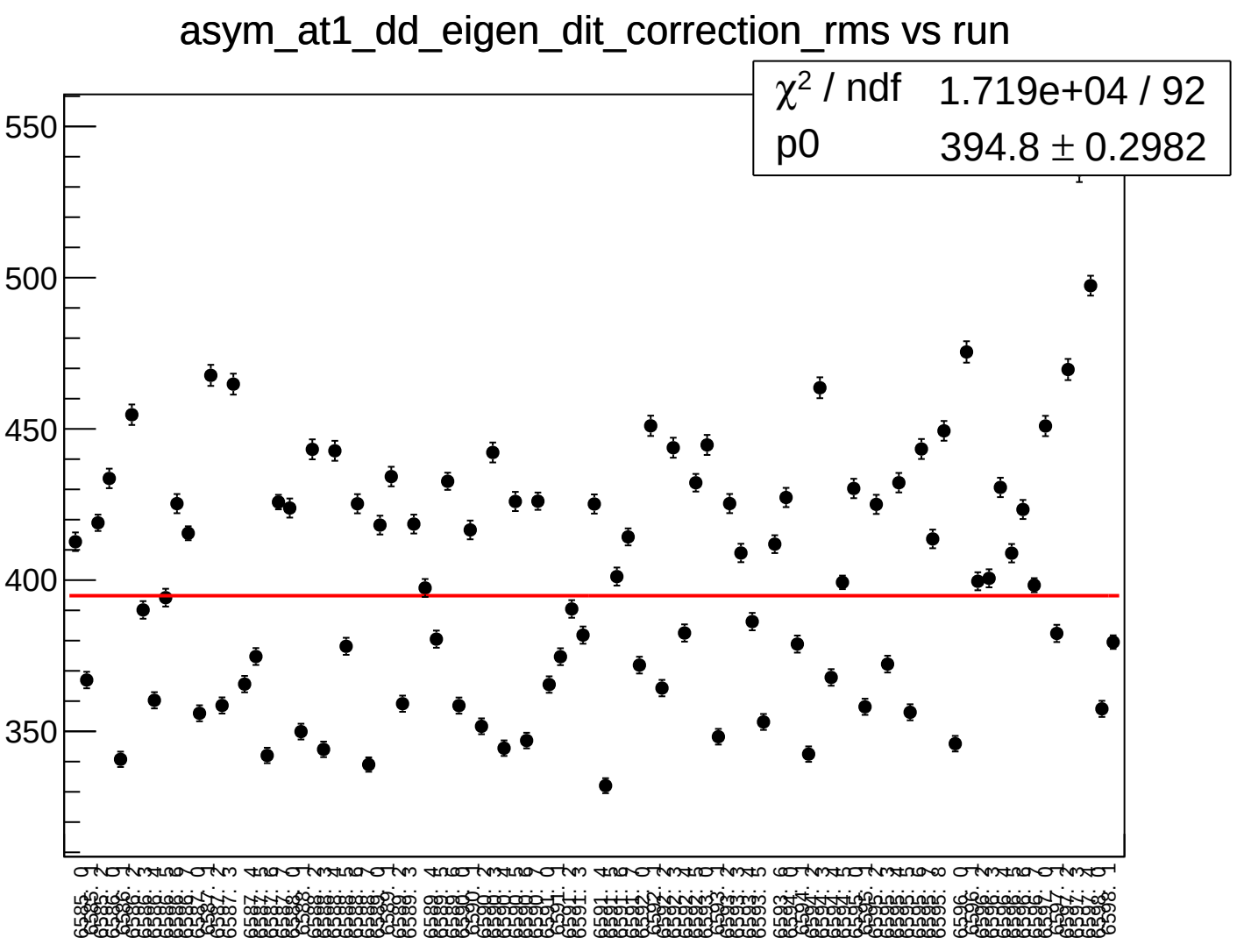

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 75.79 / 92
p0 2436 ± 1918
pull
Entries 93
Mean 561.7
Std Dev 0

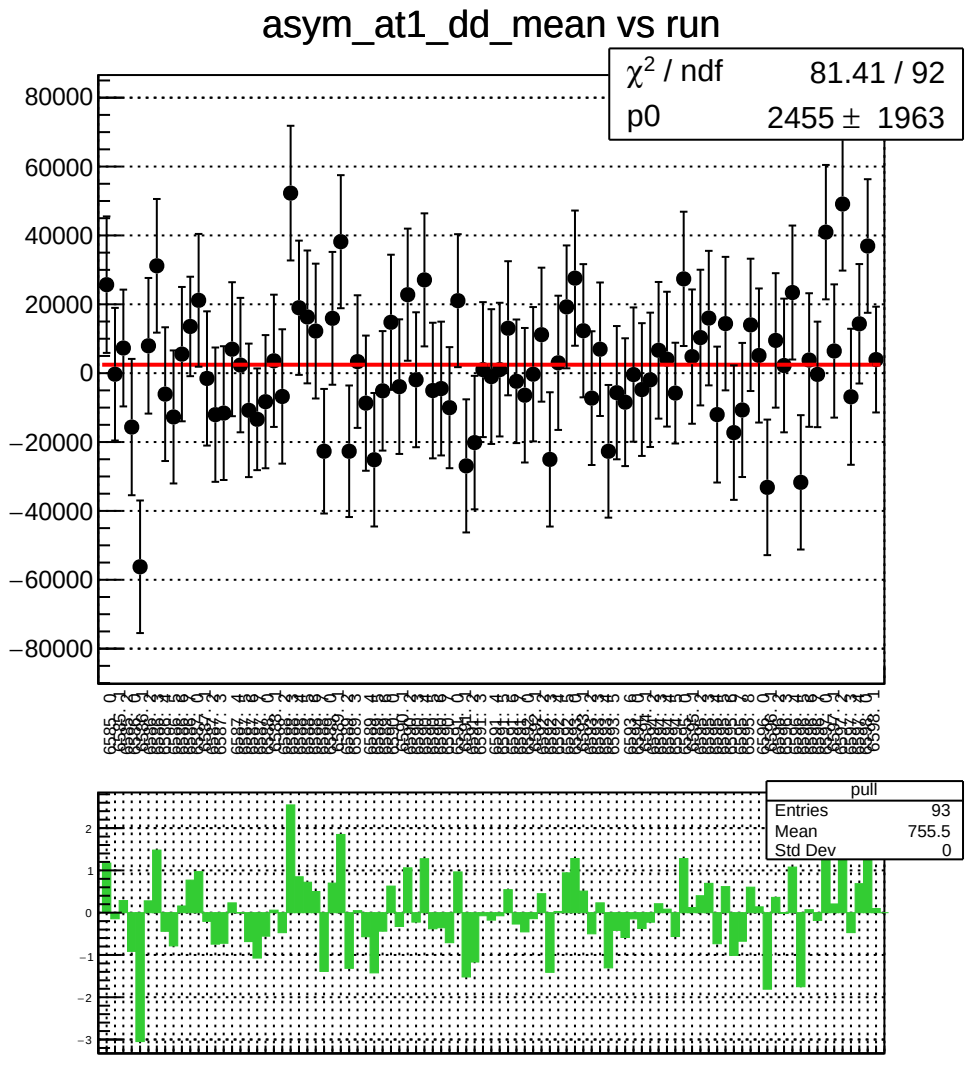

pull1D
Entries 93
Mean 0.004772
Std Dev 0.9027

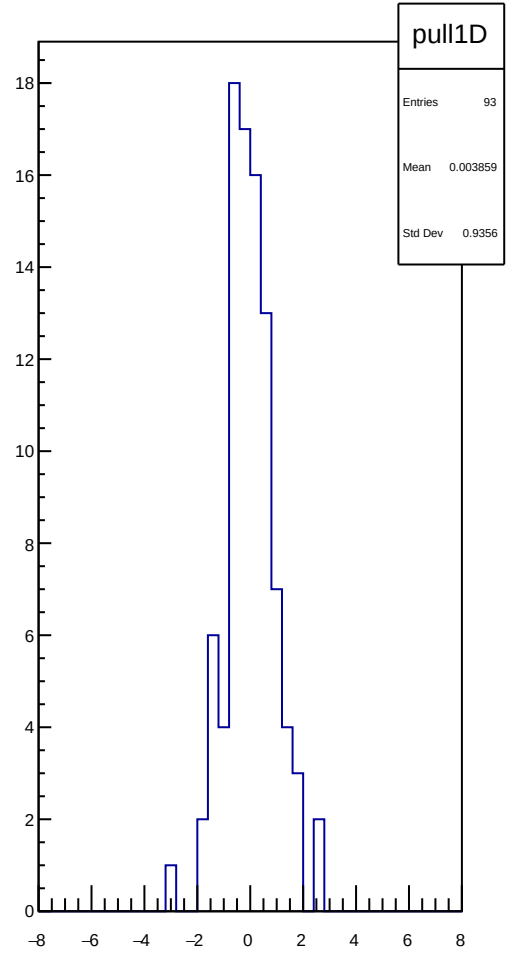

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 71.53 / 92
p0 1805 ± 1.357
1840
1820
1800
1780
1760

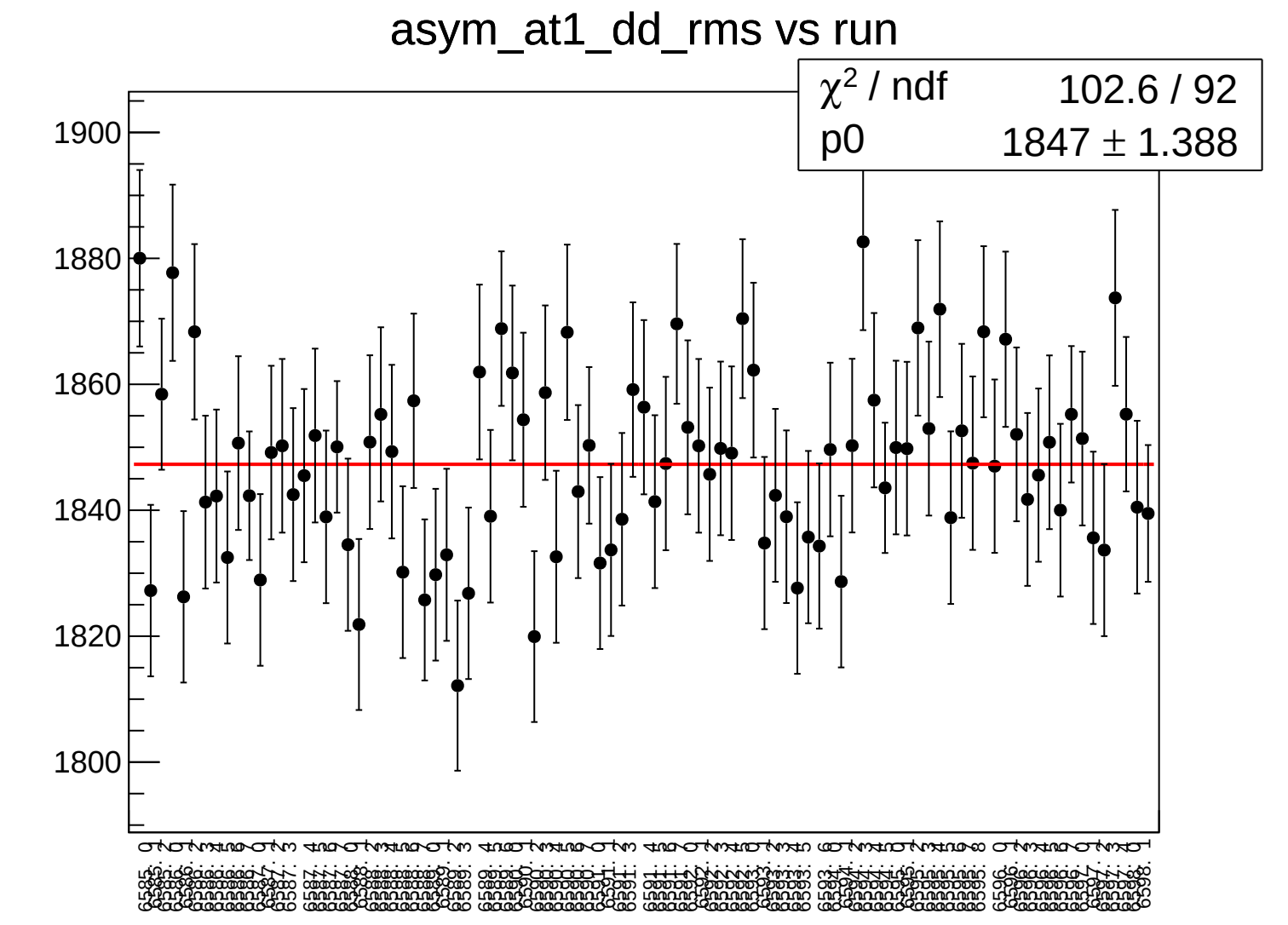

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 109.7 / 92
p0 36.52 ± 421.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 538.6
Std Dev 0
2
1
0
−1
−2

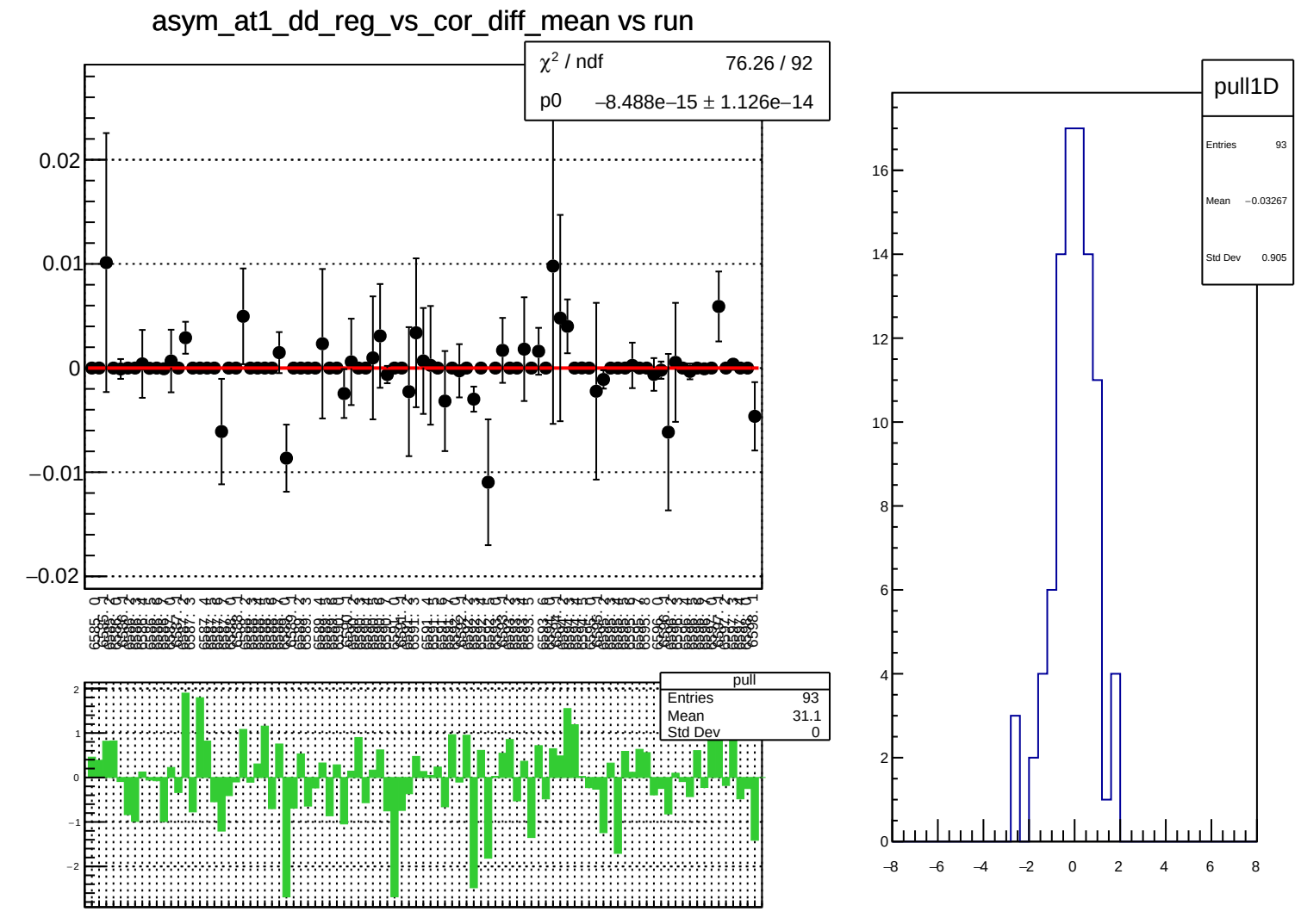

pull1D
Entries 93
Mean −0.002578
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

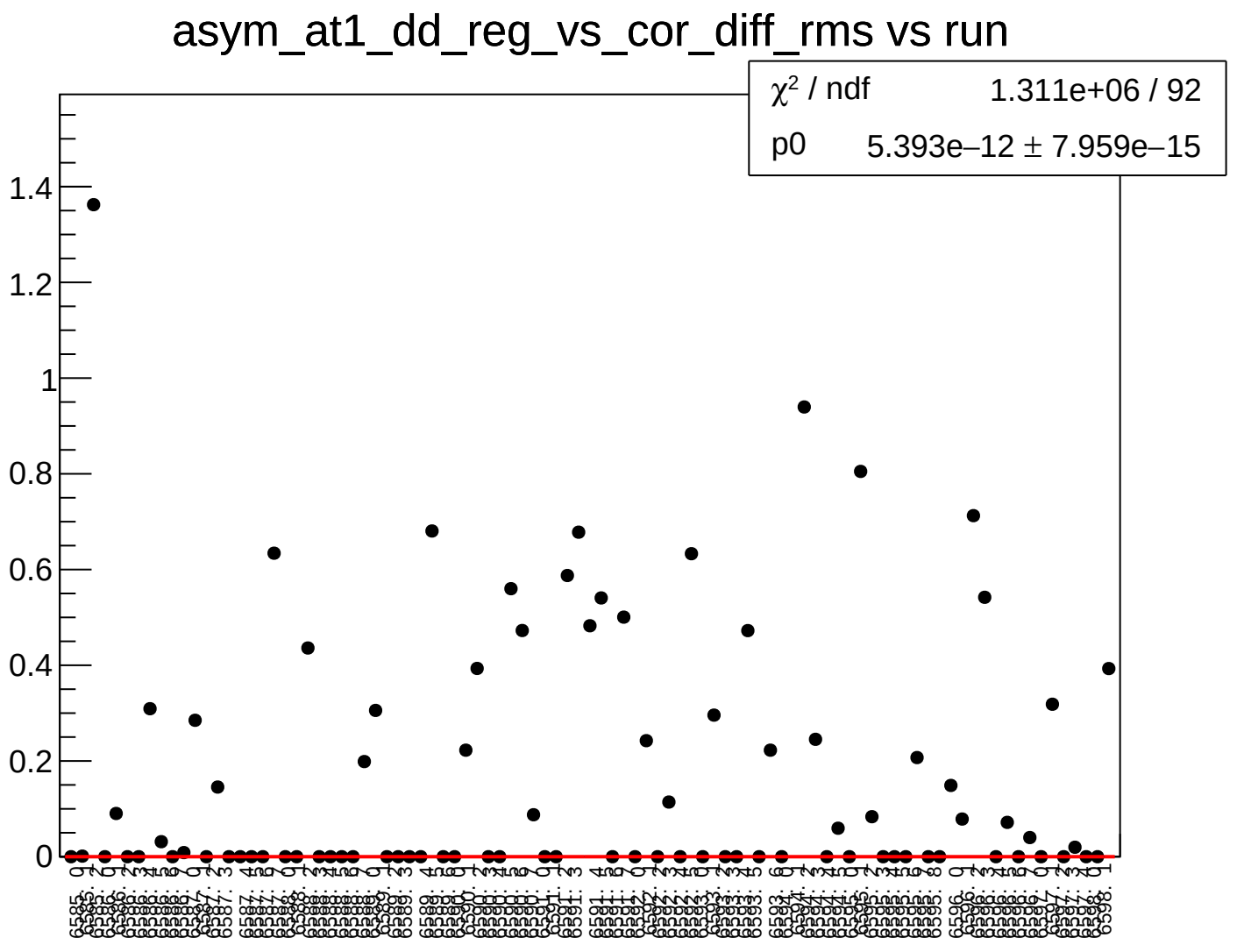

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.719e+04 / 92
p0 394.8 ± 0.2982
550
500
450
400
350

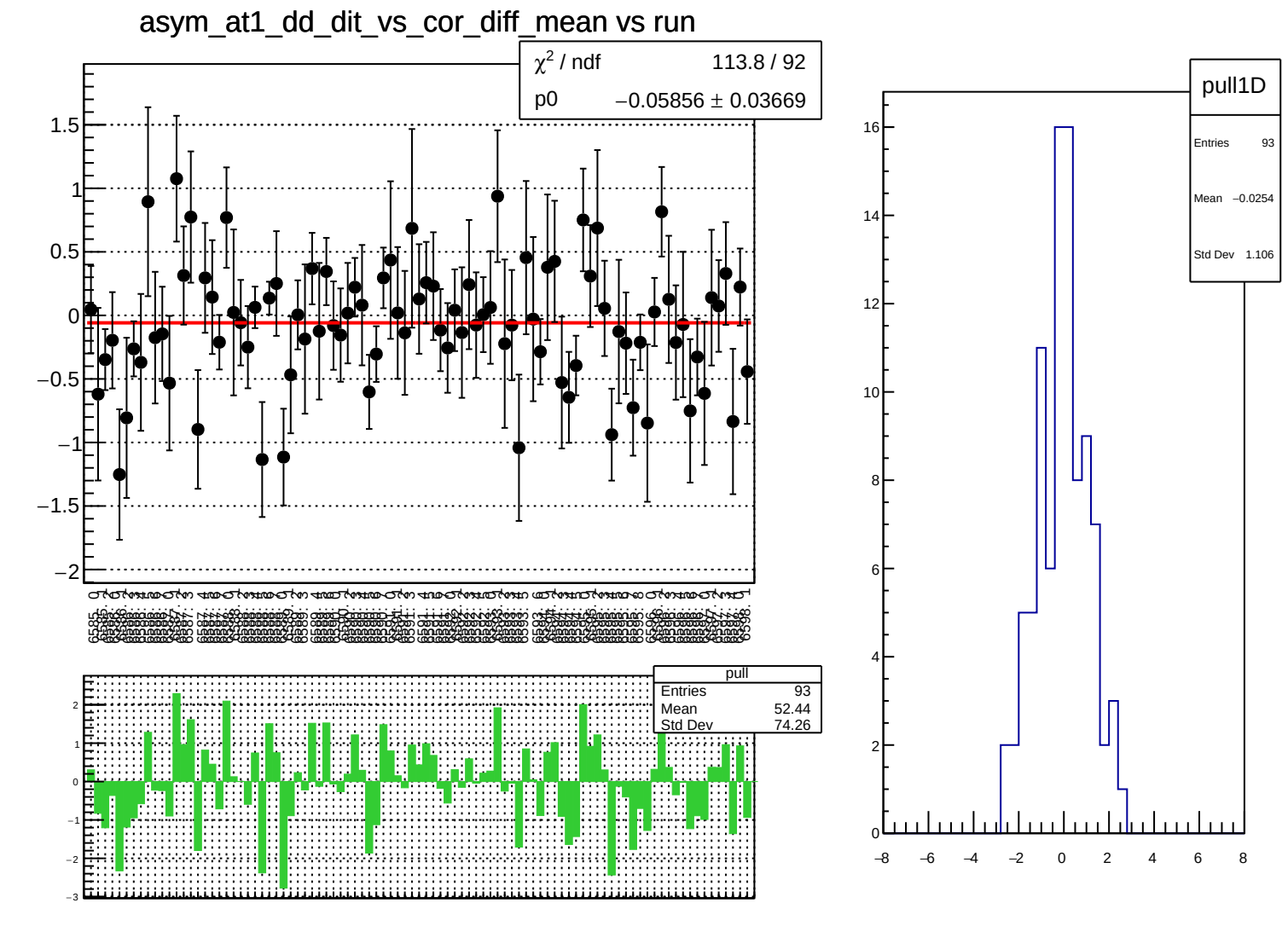

asym_at1_dd_mean vs run
χ² / ndf 81.41 / 92
p0 2455 ± 1963
pull
Entries 93
Mean 755.5
Std Dev 0

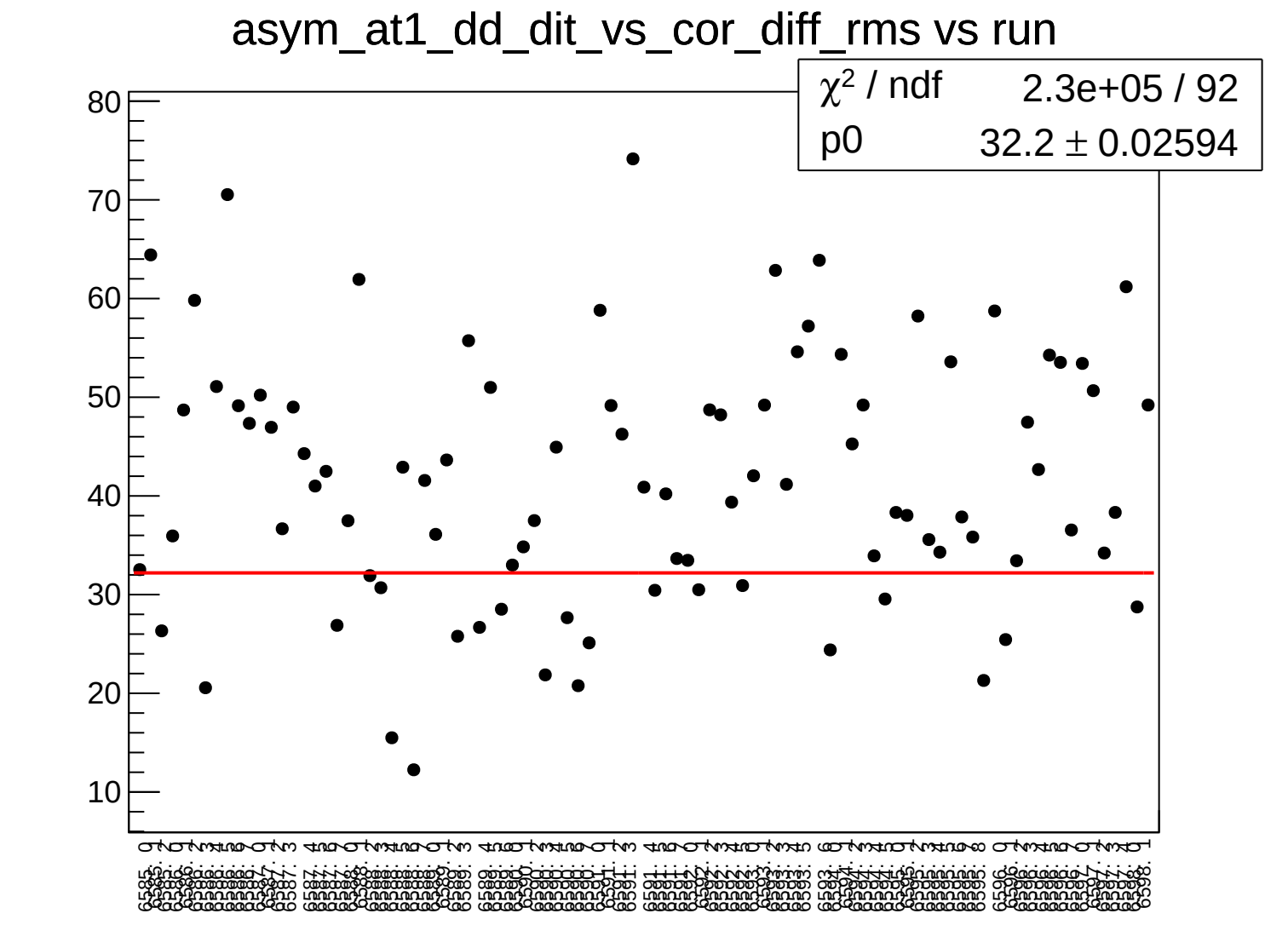

pull1D
Entries 93
Mean 0.003859
Std Dev 0.9356

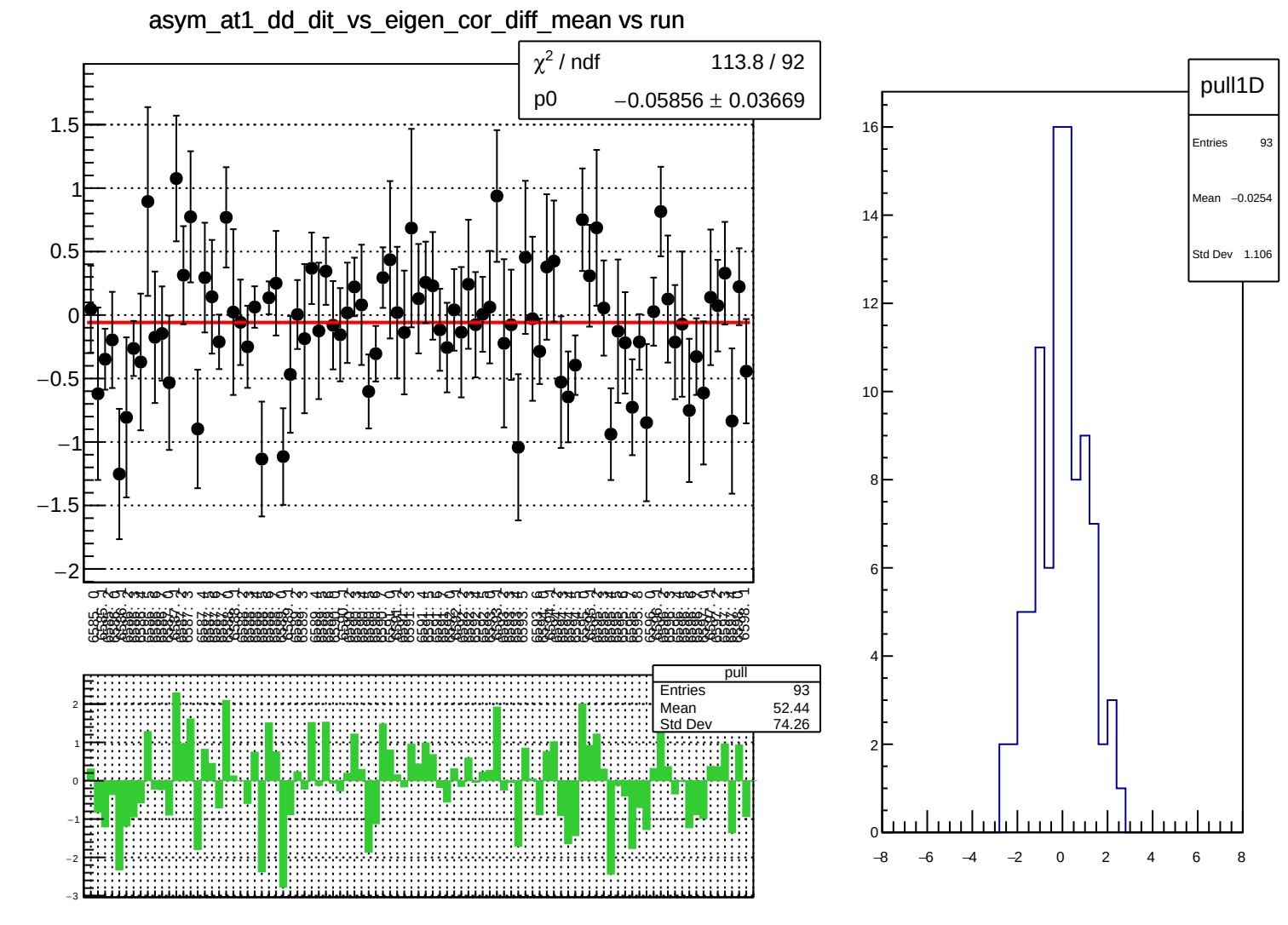

asym_at1_dd_rms vs run
χ² / ndf 102.6 / 92
p0 1847 ± 1.388
1900
1880
1860
1840
1820
1800

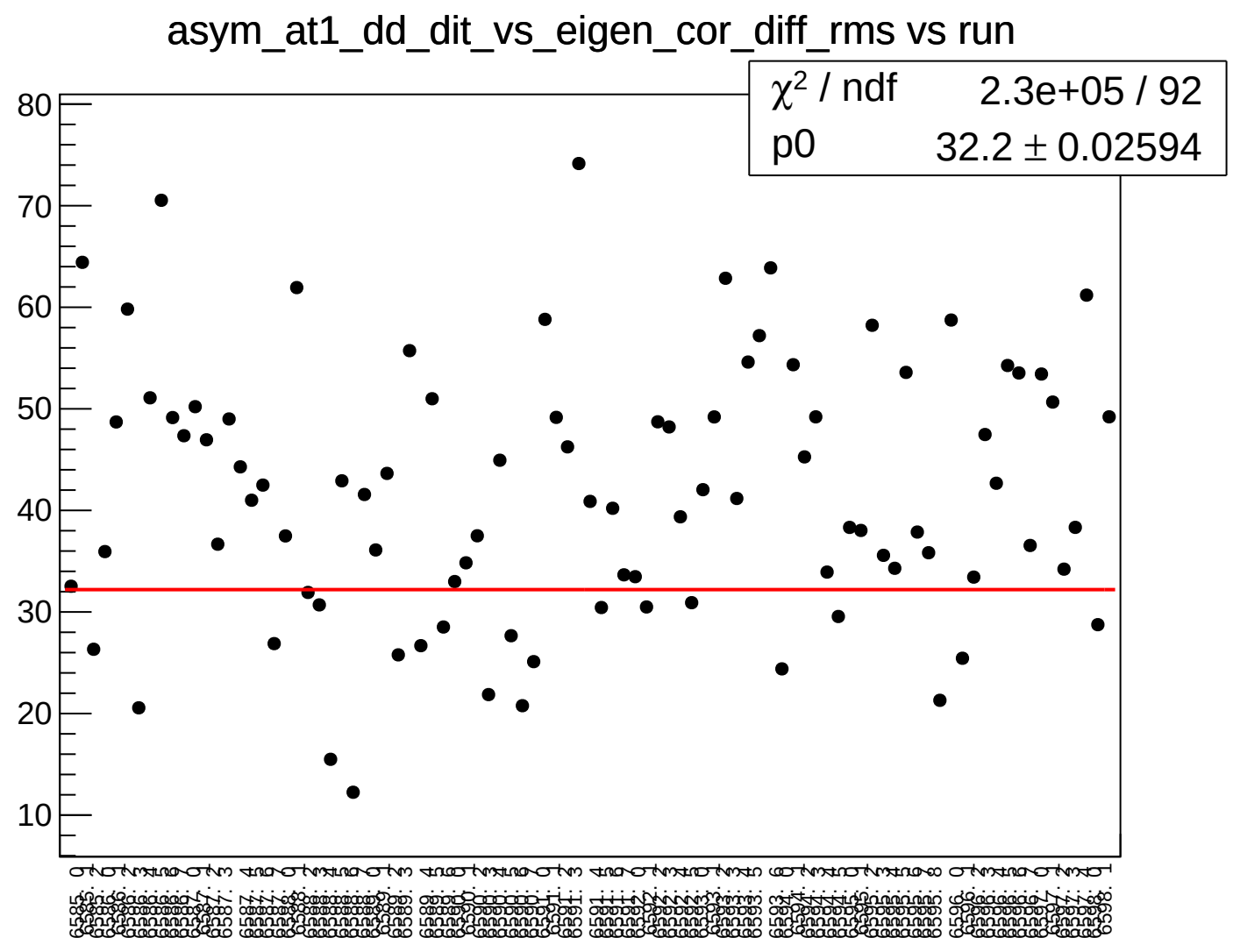

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.26 / 92
p0 −8.488e−15 ± 1.126e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 31.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.03267
Std Dev 0.905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

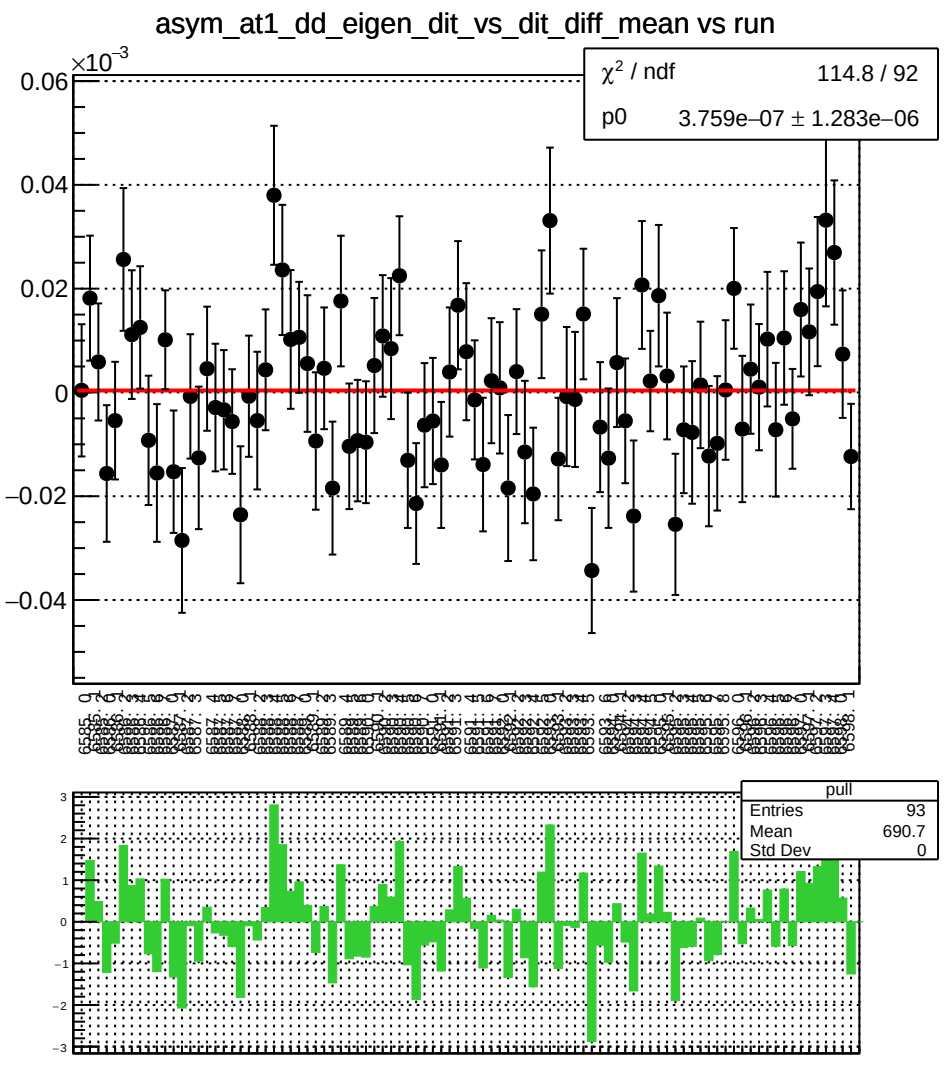

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.311e+06 / 92
p0 5.393e−12 ± 7.959e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

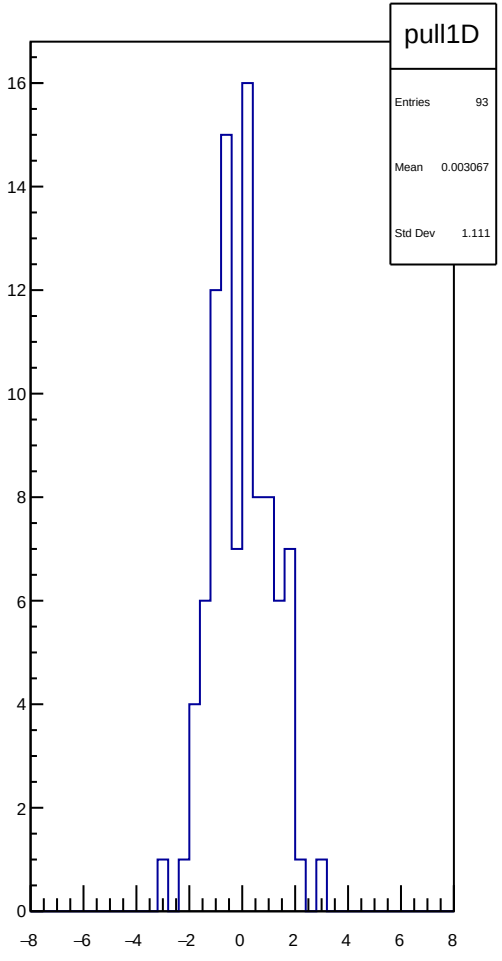

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113.8 / 92
p0 −0.05856 ± 0.03669
pull
Entries 93
Mean 52.44
Std Dev 74.26
pull1D
Entries 93
Mean −0.0254
Std Dev 1.106

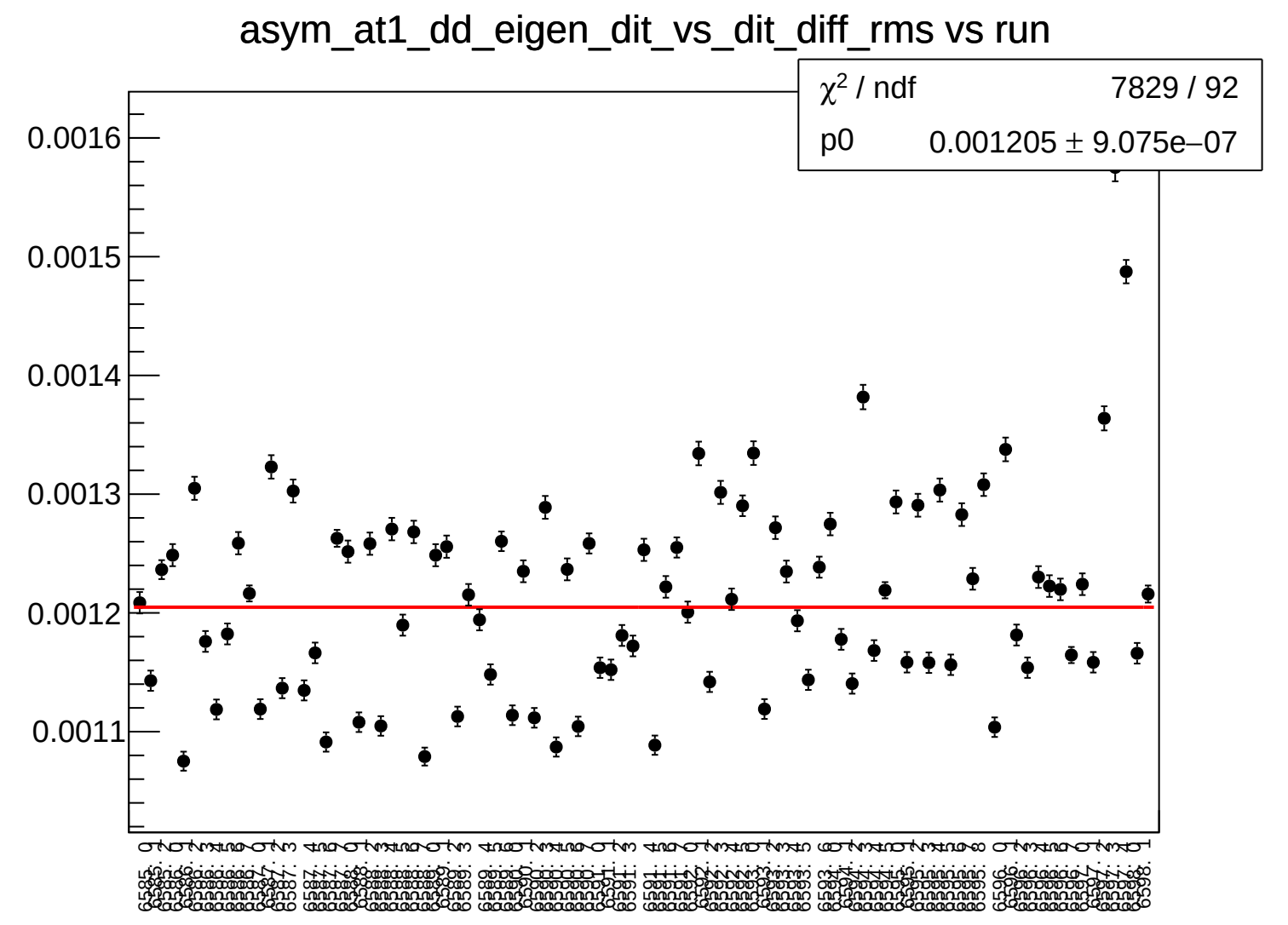

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.3e+05 / 92
p0 32.2 ± 0.02594
80
70
60
50
40
30
20
10

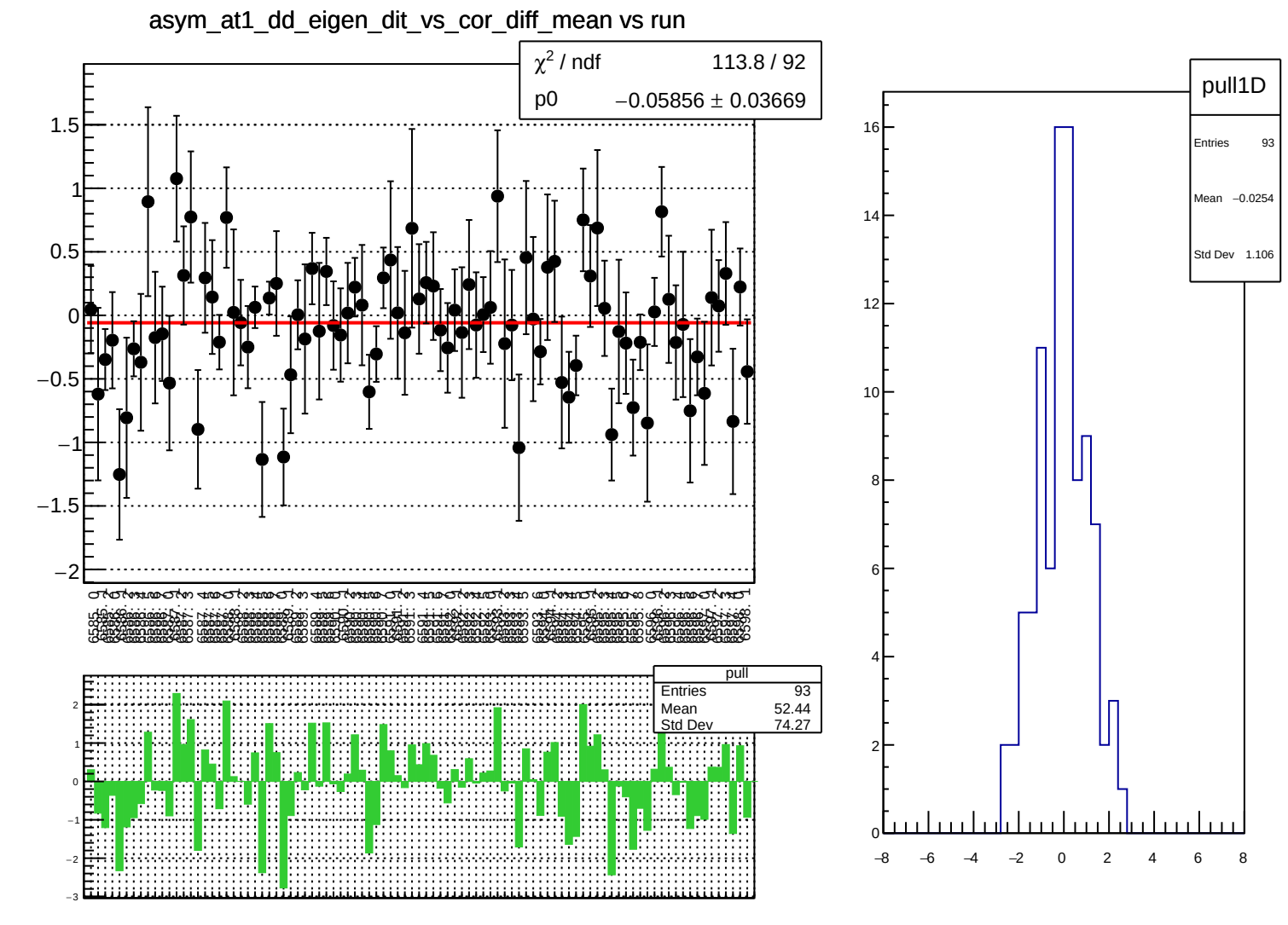

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.8 / 92
p0 −0.05856 ± 0.03669
pull
Entries 93
Mean 52.44
Std Dev 74.26
pull1D
Entries 93
Mean −0.0254
Std Dev 1.106

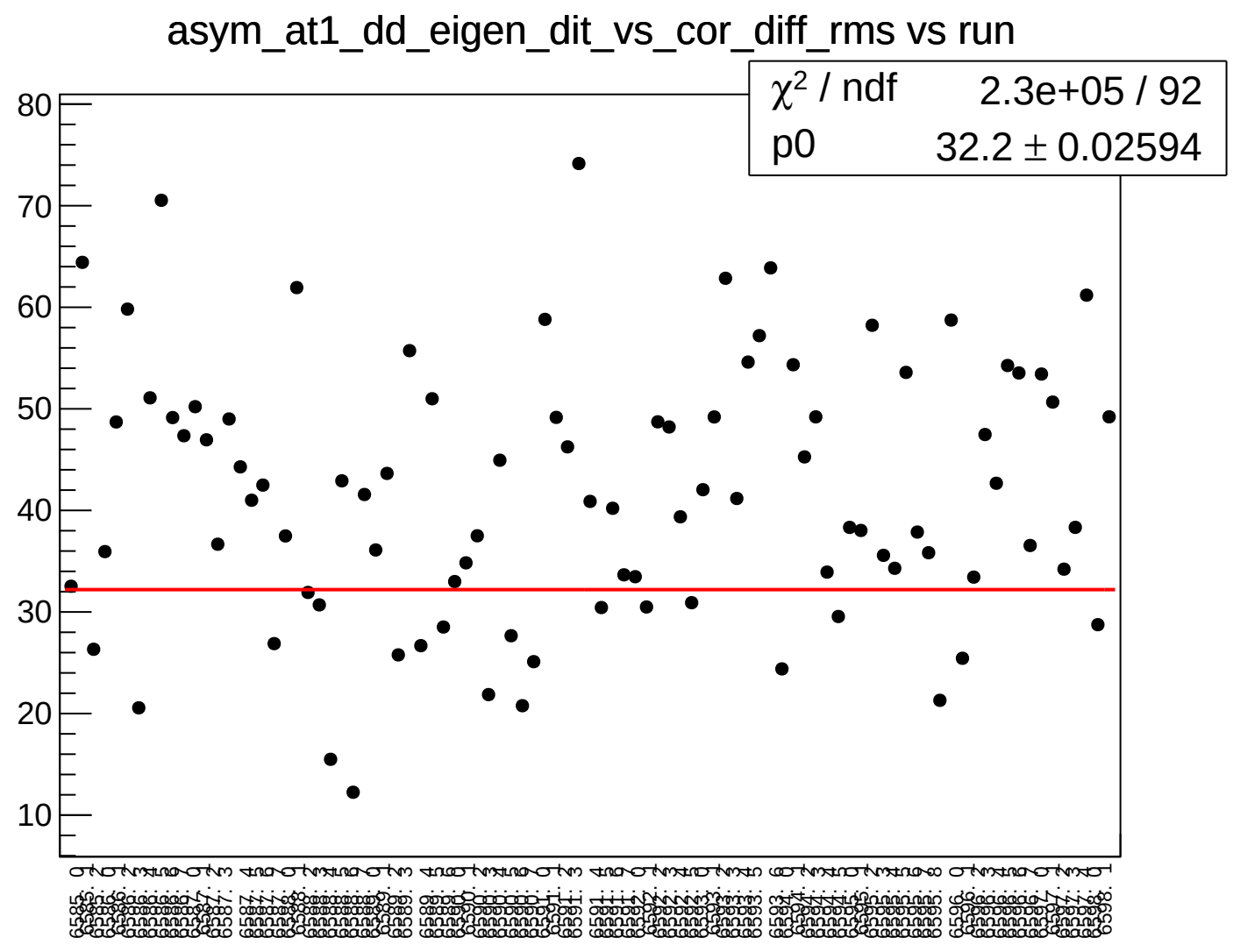

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.3e+05 / 92
p0 32.2 ± 0.02594
80
70
60
50
40
30
20
10

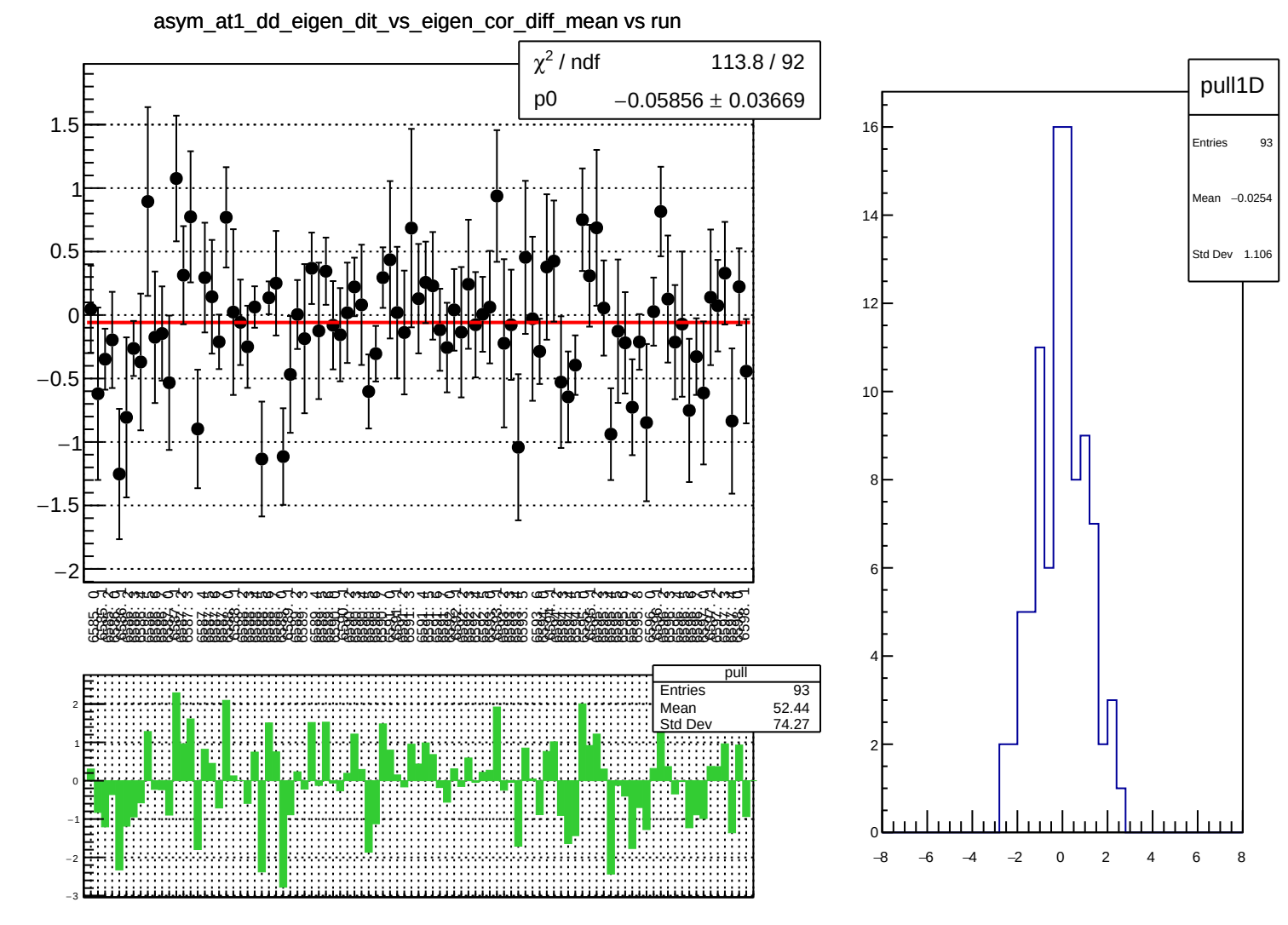

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.8 / 92
p0 3.759e−07 ± 1.283e−06
pull
Entries 93
Mean 690.7
Std Dev 0

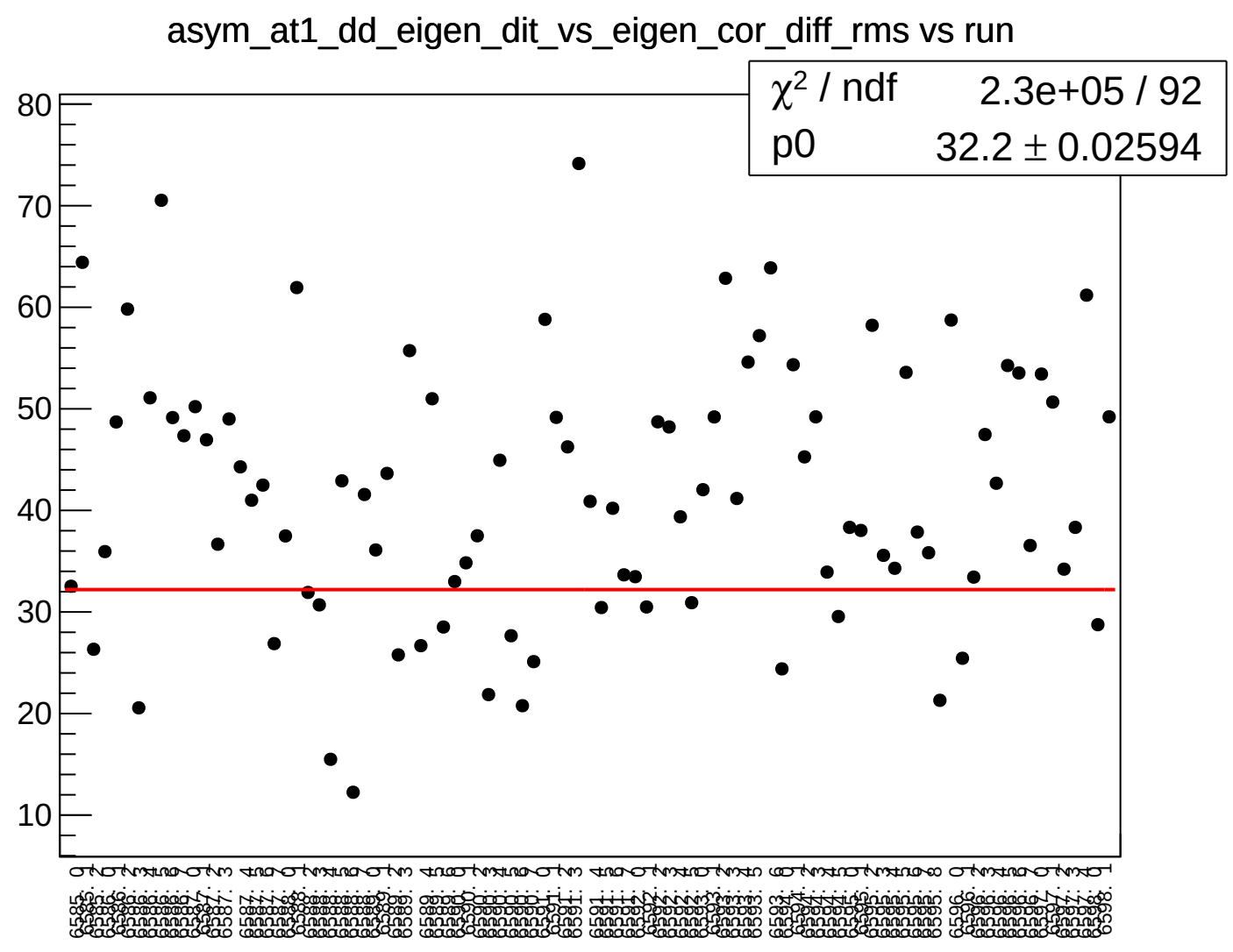

pull1D
Entries 93
Mean 0.003067
Std Dev 1.111

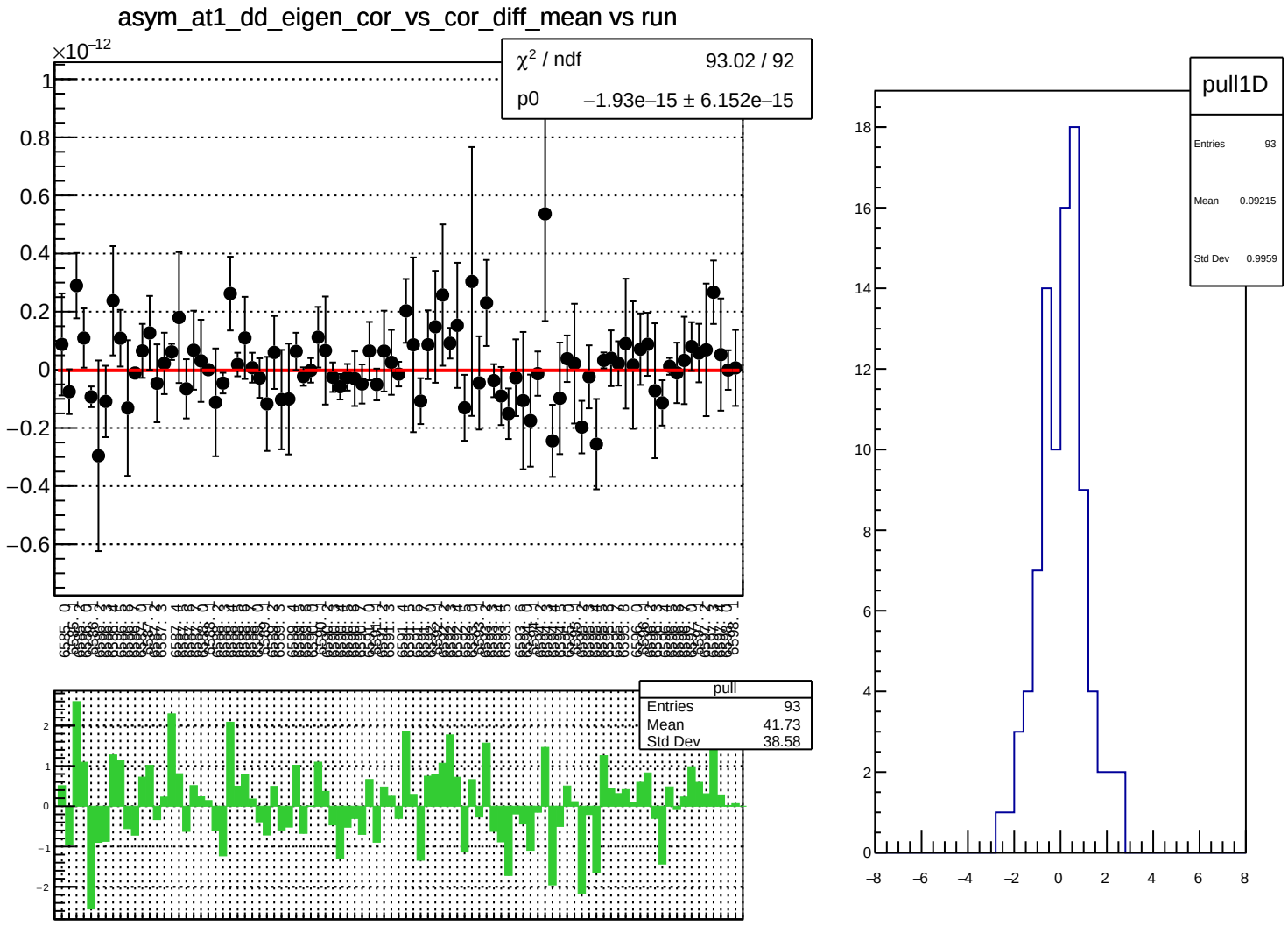

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7829 / 92
p0 0.001205 ± 9.075e−07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

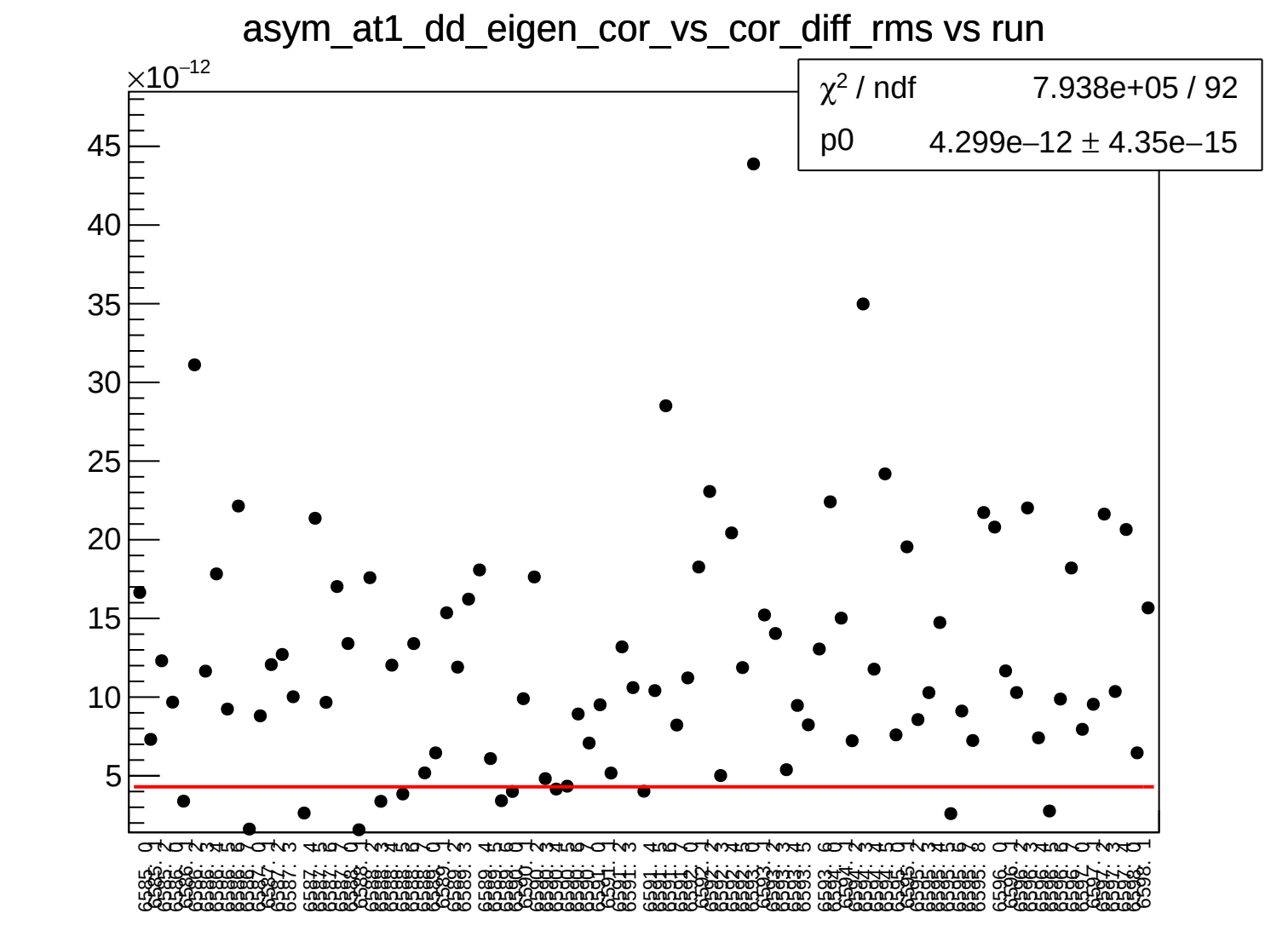

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.8 / 92
p0 −0.05856 ± 0.03669
pull
Entries 93
Mean 52.44
Std Dev 74.27
pull1D
Entries 93
Mean −0.0254
Std Dev 1.106

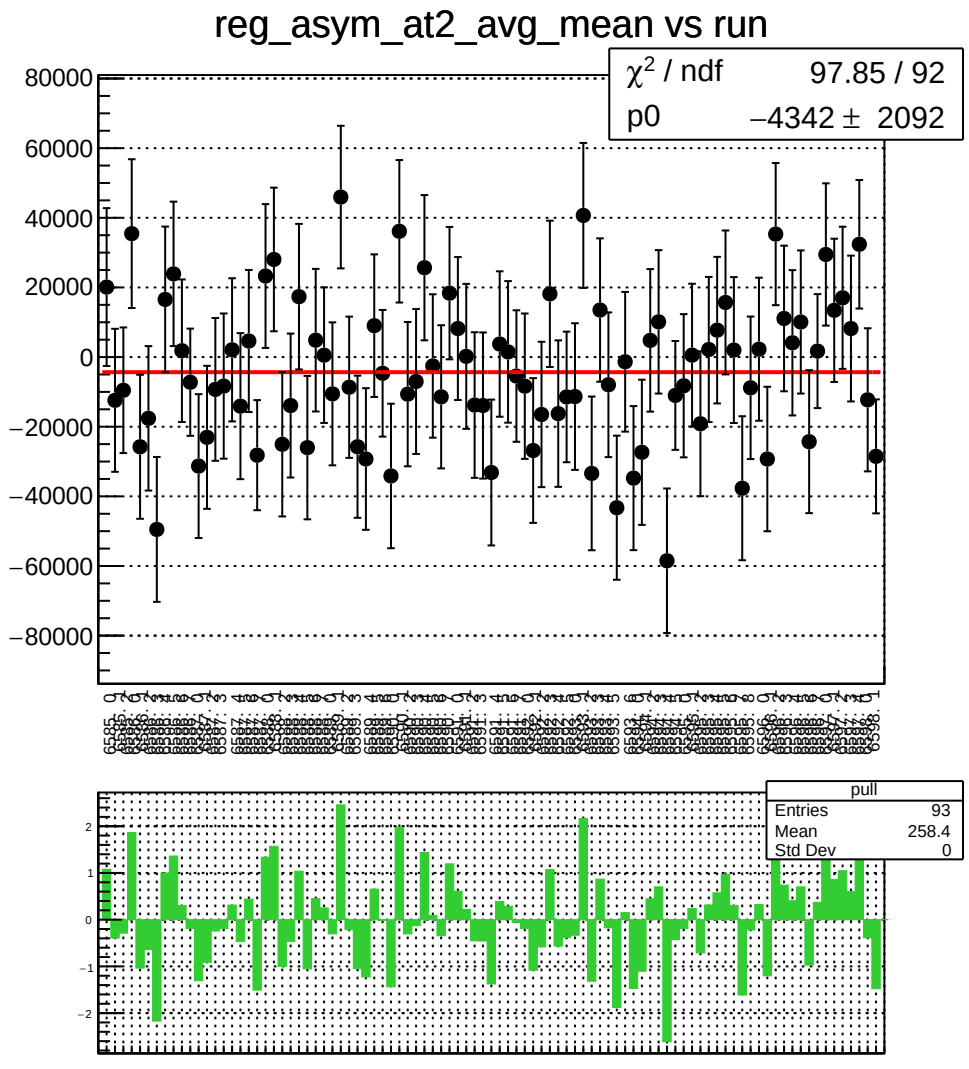

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.3e+05 / 92
p0 32.2 ± 0.02594
80
70
60
50
40
30
20
10

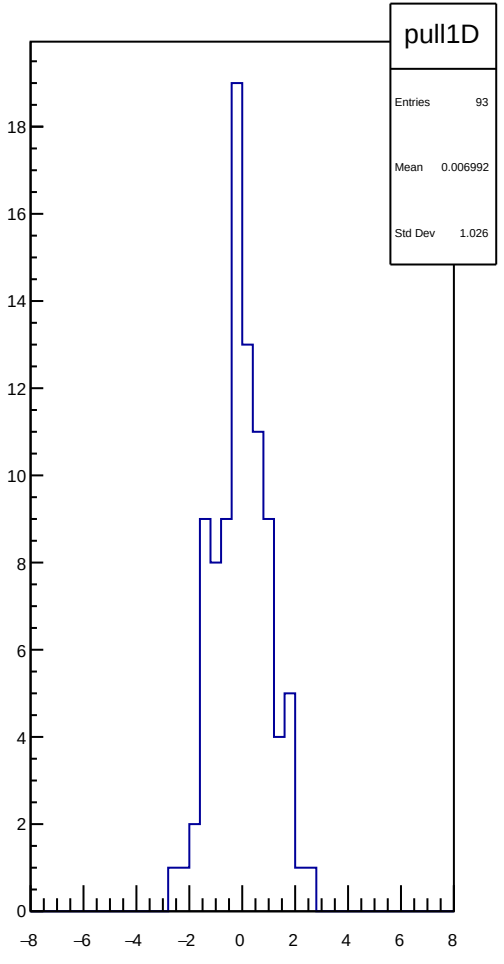

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.8 / 92
p0 −0.05856 ± 0.03669
pull
Entries 93
Mean 52.44
Std Dev 74.27
pull1D
Entries 93
Mean −0.0254
Std Dev 1.106

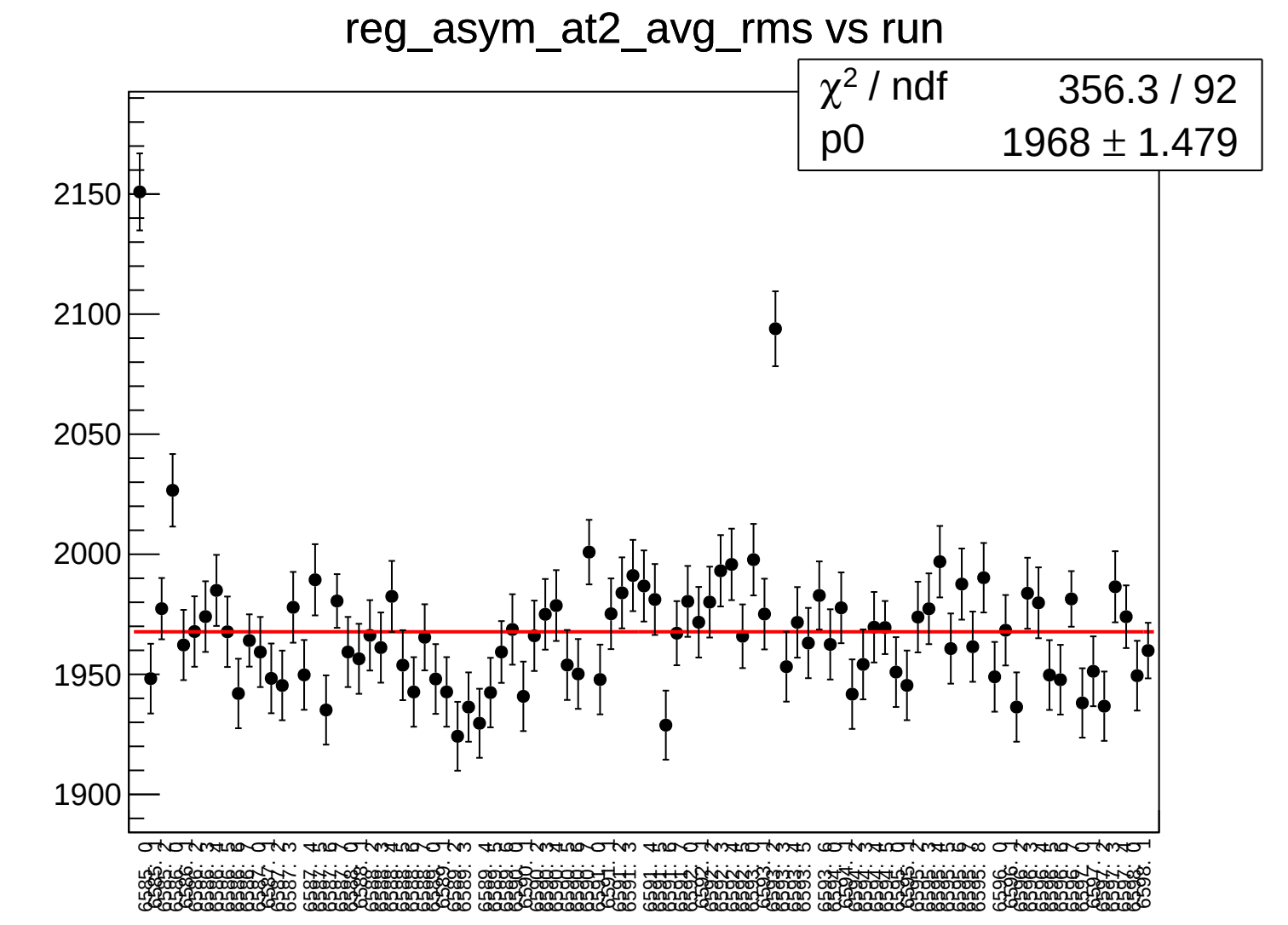

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.3e+05 / 92
p0 32.2 ± 0.02594
80
70
60
50
40
30
20
10

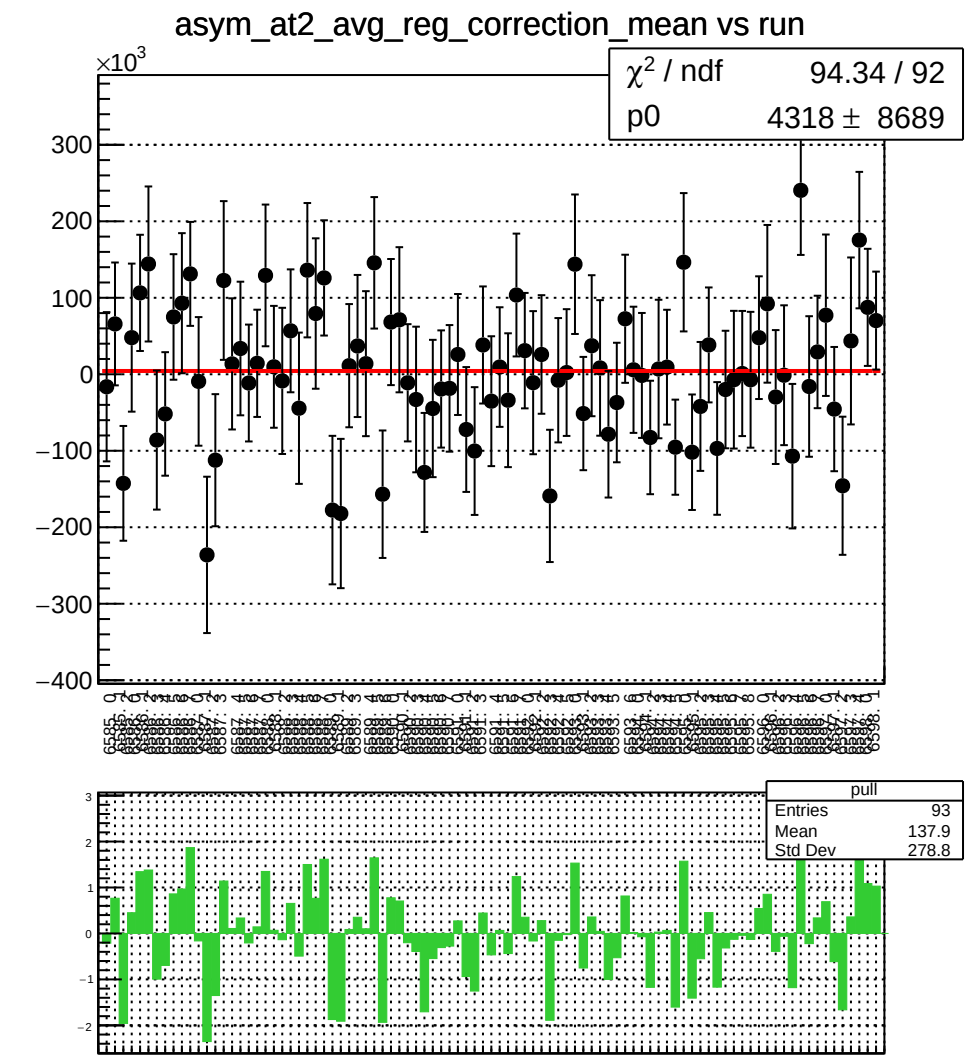

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.02 / 92
p0 −1.93e−15 ± 6.152e−15
pull
Entries 93
Mean 41.73
Std Dev 38.58
pull1D
Entries 93
Mean 0.09215
Std Dev 0.9959

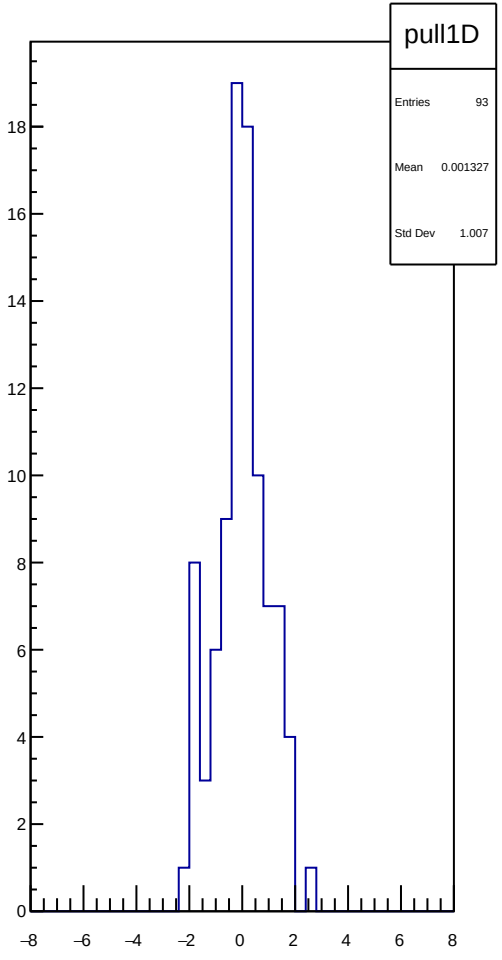

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.938e+05 / 92
p0 4.299e−12 ± 4.35e−15
45
40
35
30
25
20
15
10
5

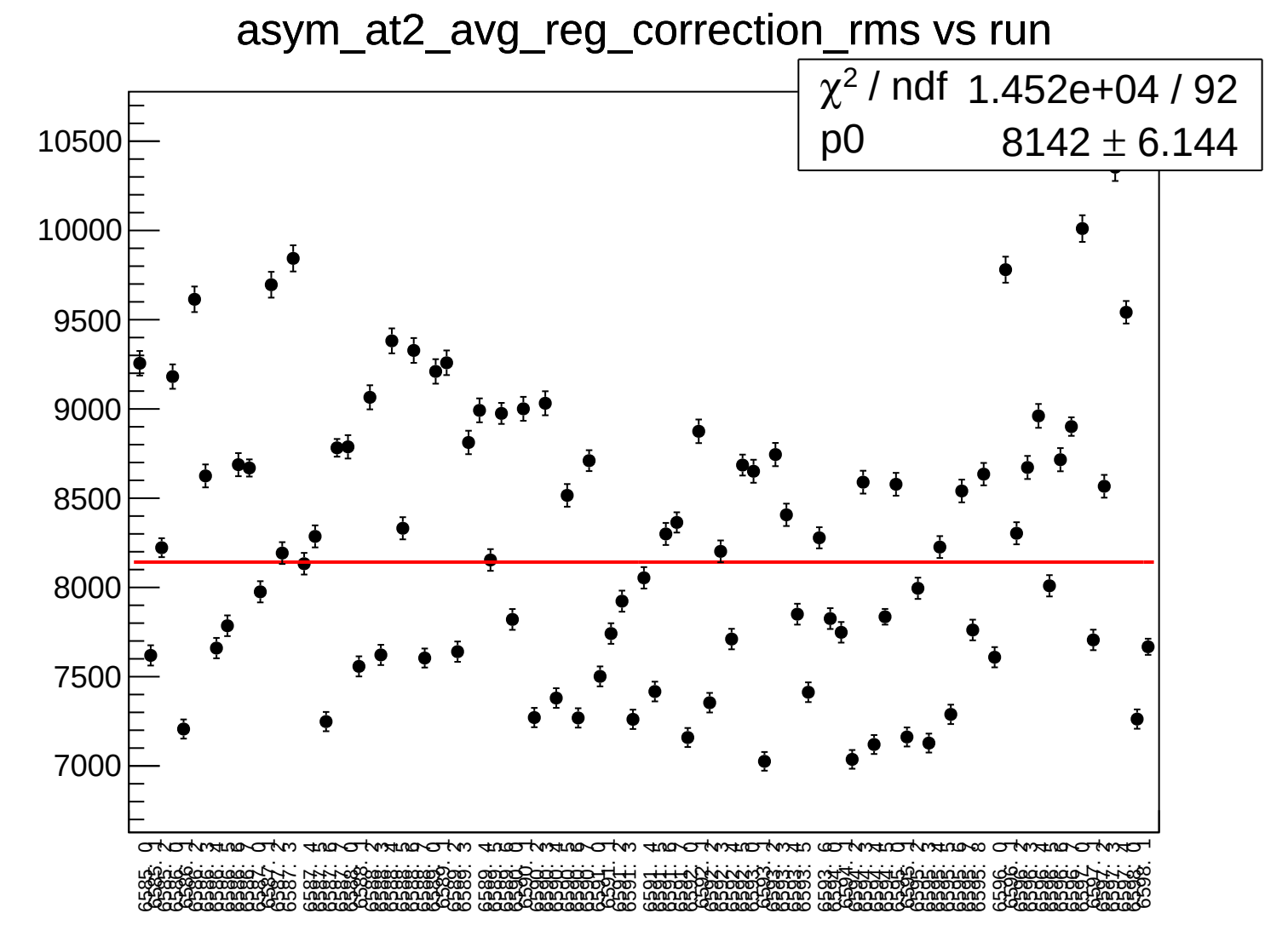

reg_asym_at2_avg_mean vs run
χ² / ndf 97.85 / 92
p0 −4342 ± 2092
pull
Entries 93
Mean 258.4
Std Dev 0

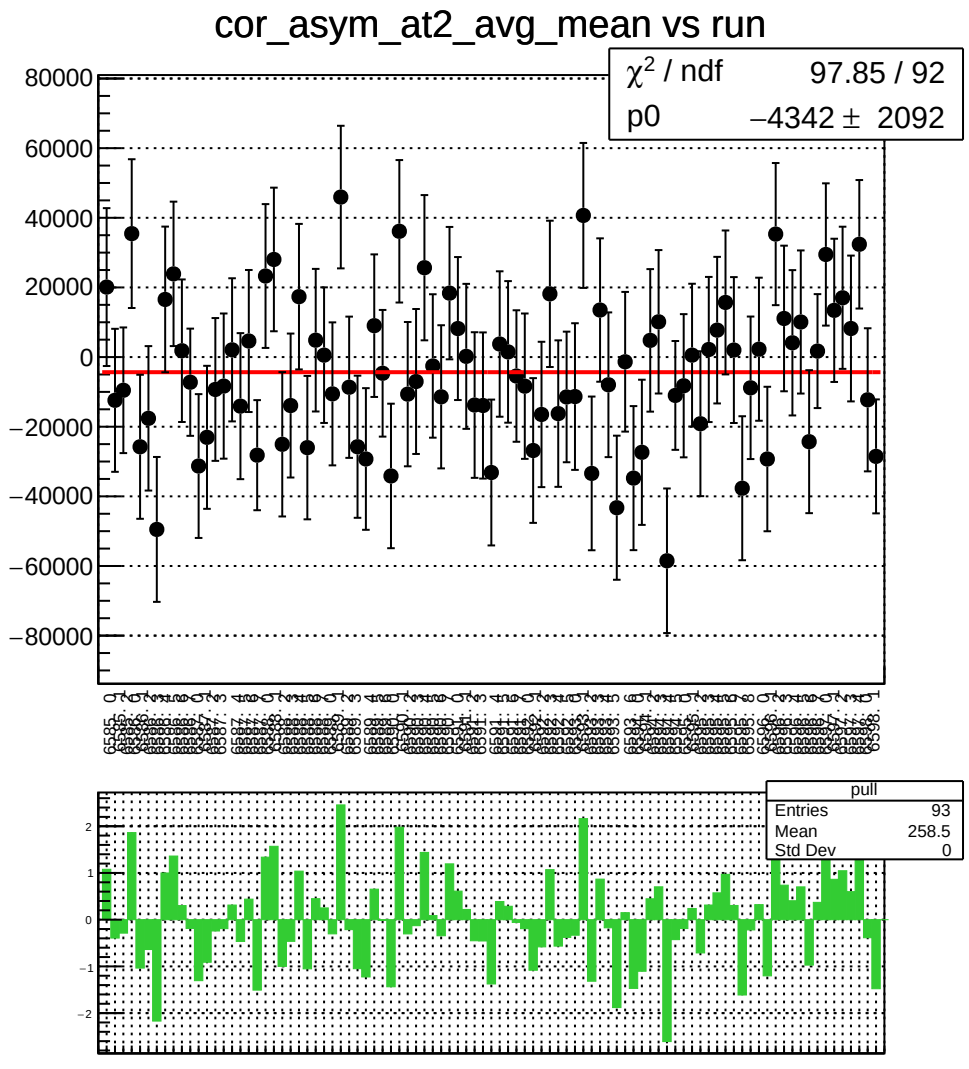

pull1D
Entries 93
Mean 0.006992
Std Dev 1.026

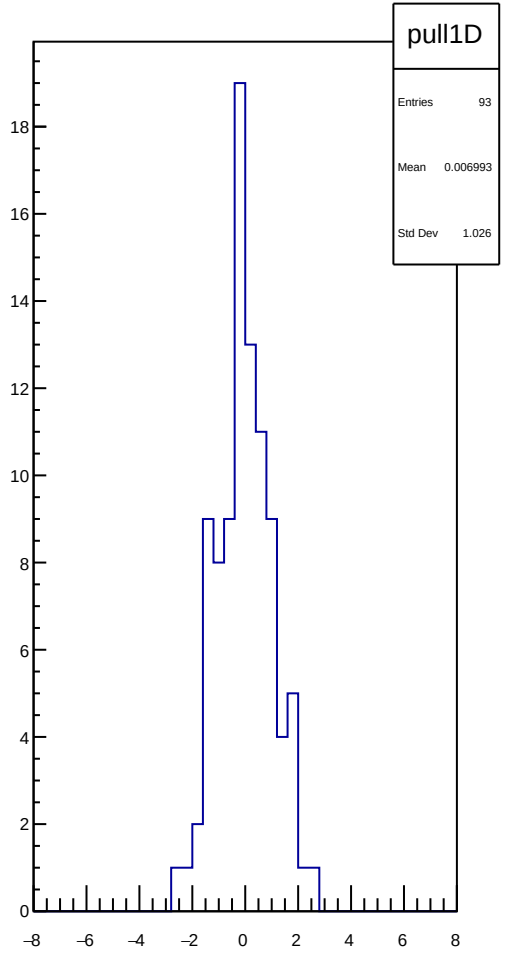

reg_asym_at2_avg_rms vs run
χ^2 / ndf 356.3 / 92
p0 1968 ± 1.479
2150
2100
2050
2000
1950
1900

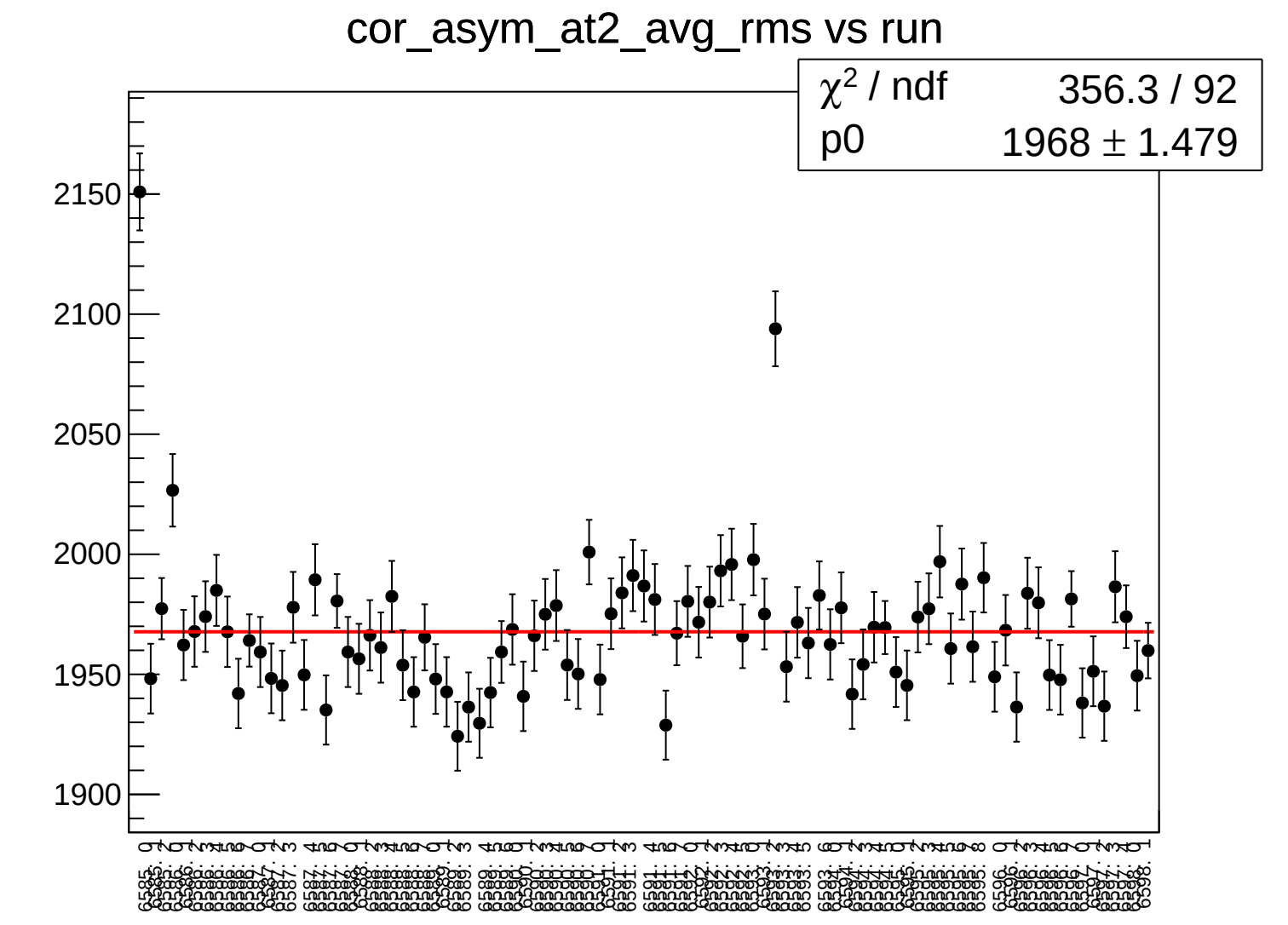

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.34 / 92
p0 4318 ± 8689
300
200
100
0
−100
−200
−300
−400
pull
Entries 93
Mean 137.9
Std Dev 278.8
3
2
1
0
−1
−2

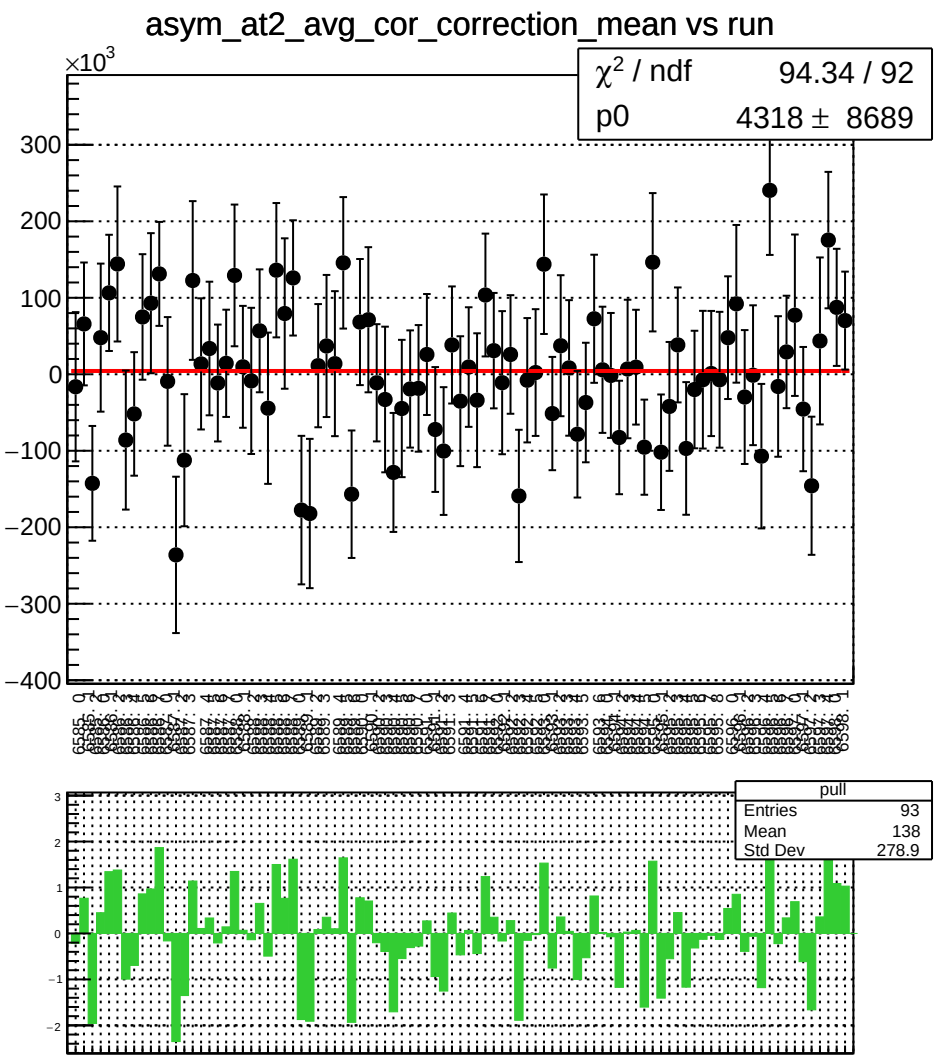

pull1D
Entries 93
Mean 0.001327
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

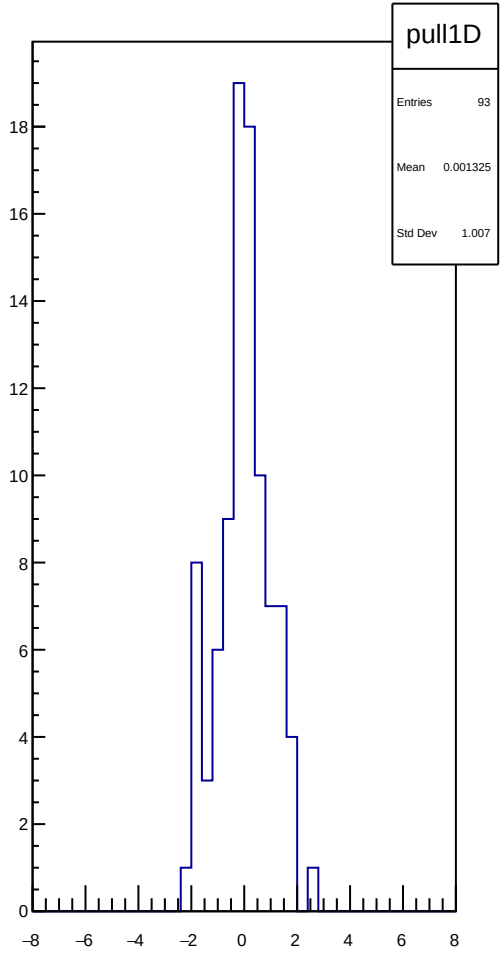

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.452e+04 / 92
p0 8142 ± 6.144
10500
10000
9500
9000
8500
8000
7500
7000

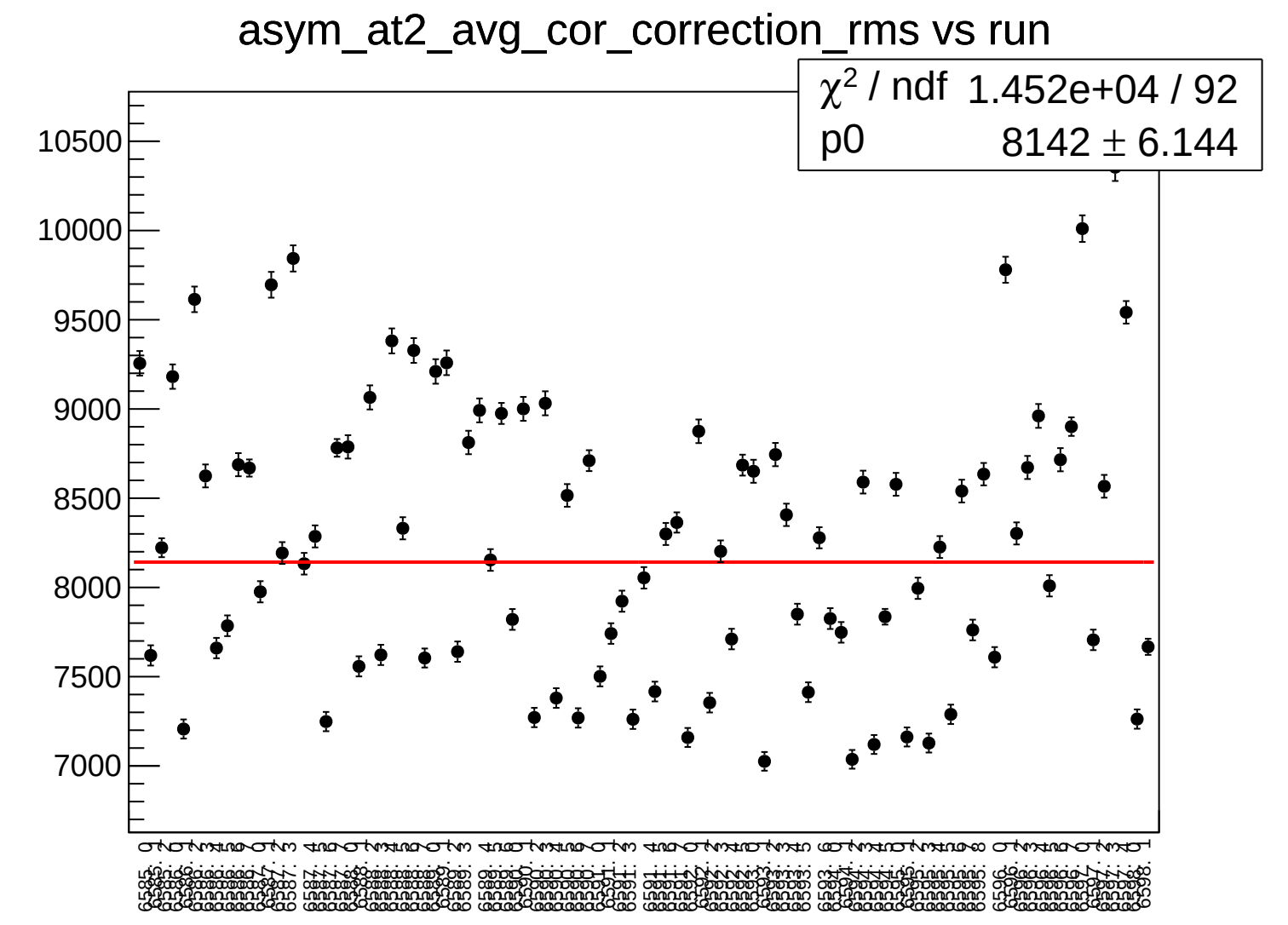

cor_asym_at2_avg_mean vs run
χ² / ndf 97.85 / 92
p0 −4342 ± 2092
pull
Entries 93
Mean 258.5
Std Dev 0

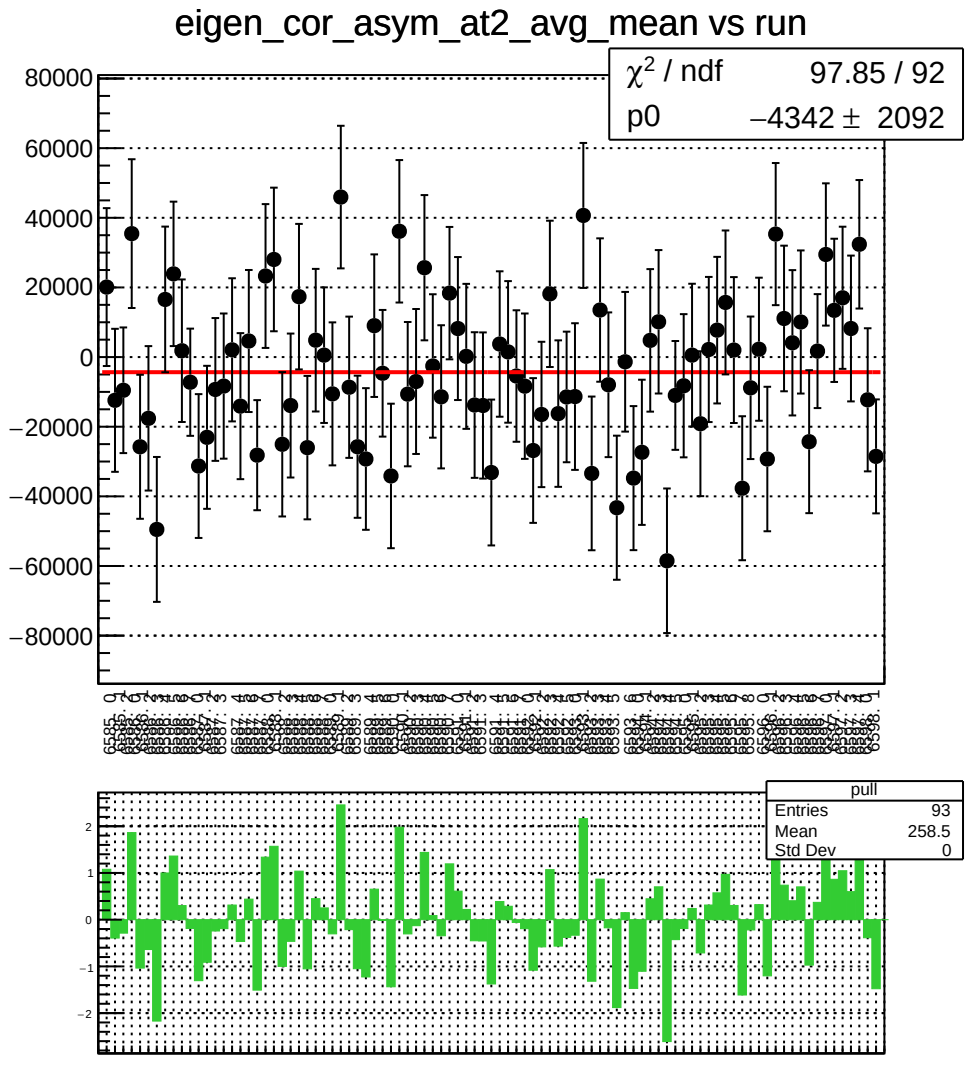

pull1D
Entries 93
Mean 0.006993
Std Dev 1.026

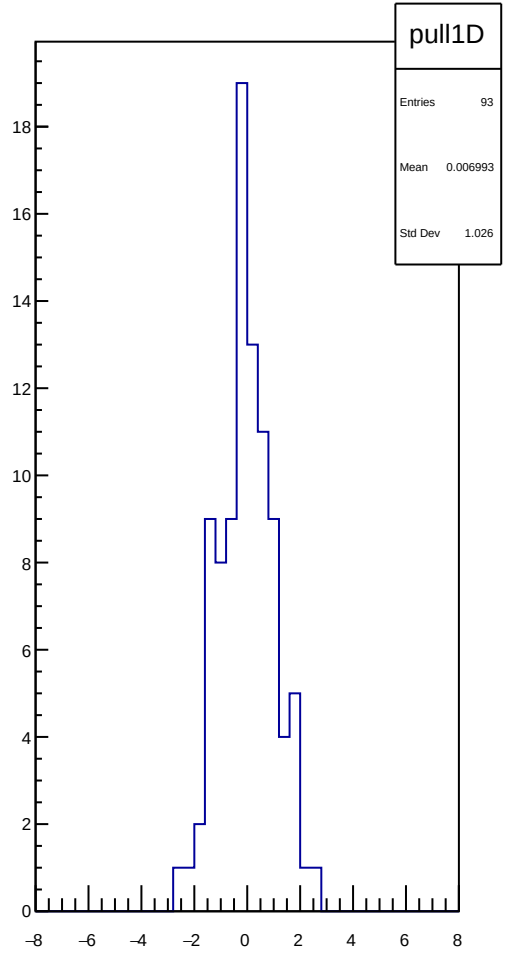

cor_asym_at2_avg_rms vs run
χ² / ndf 356.3 / 92
p0 1968 ± 1.479
2150
2100
2050
2000
1950
1900

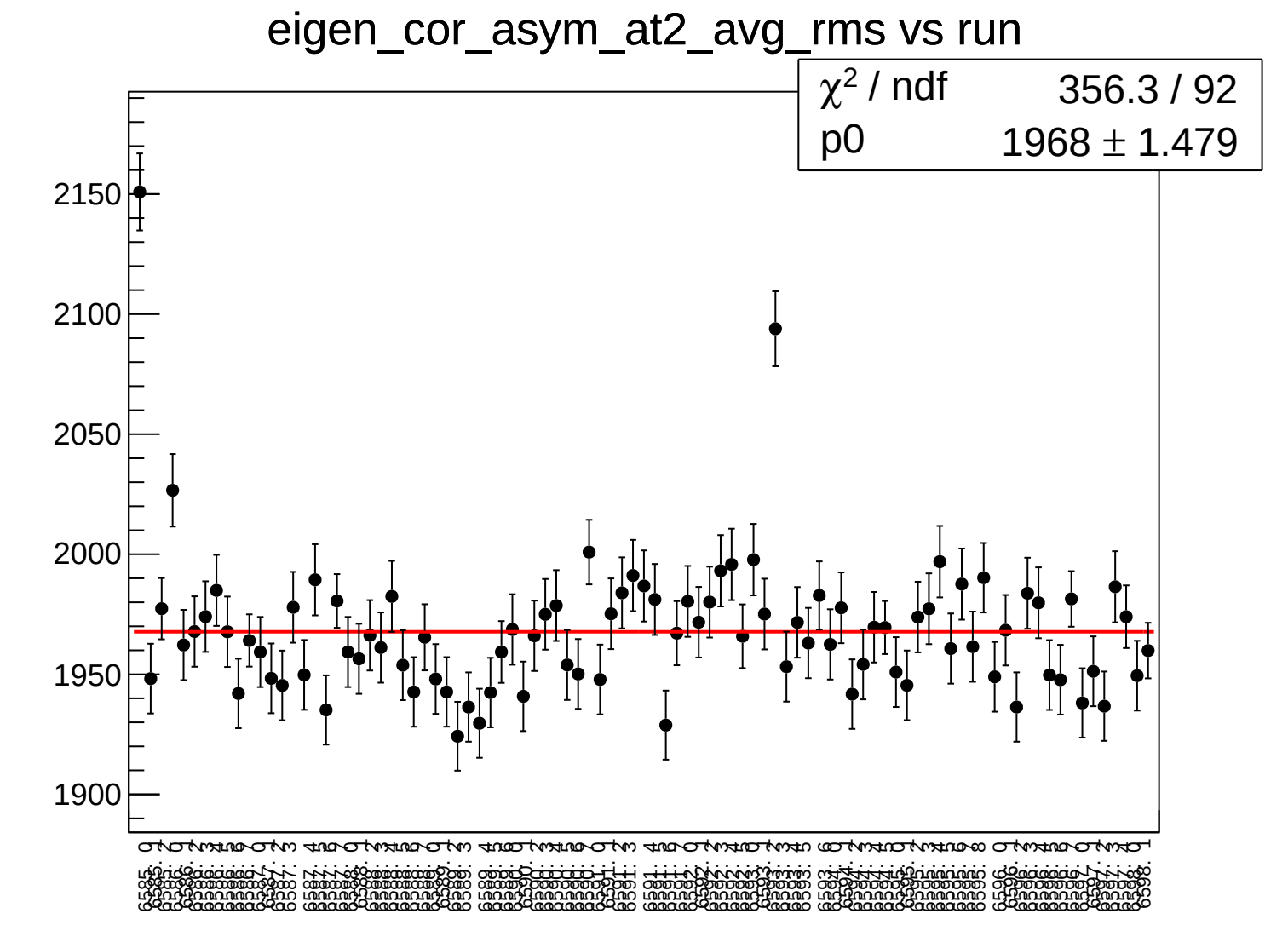

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.34 / 92
p0 4318 ± 8689
300
200
100
0
−100
−200
−300
−400
pull
Entries 93
Mean 138
Std Dev 278.9
3
2
1
0
−1
−2

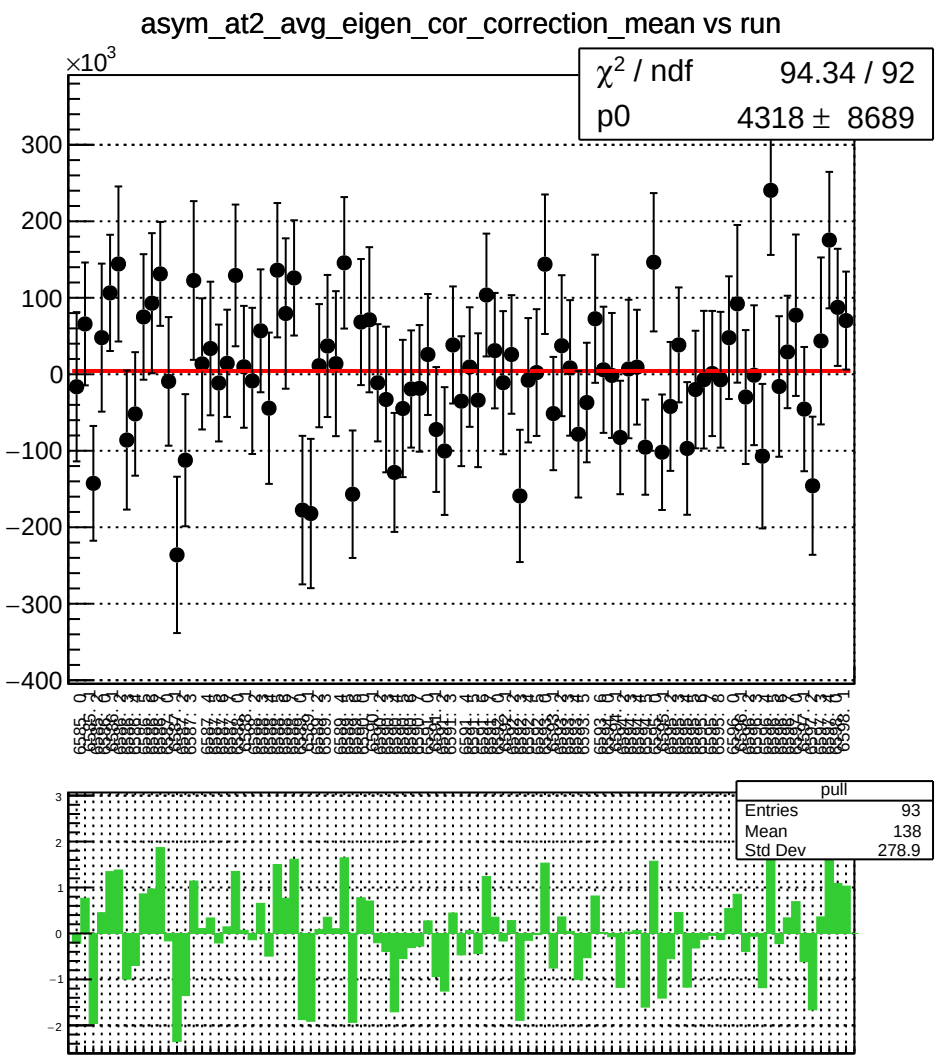

pull1D
Entries 93
Mean 0.001325
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

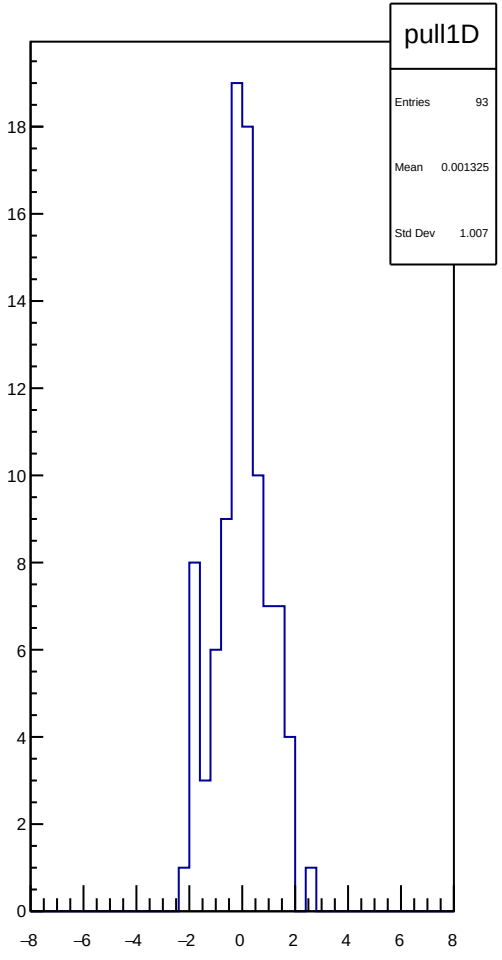

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 1.452e+04 / 92
p0 8142 ± 6.144
10500
10000
9500
9000
8500
8000
7500
7000

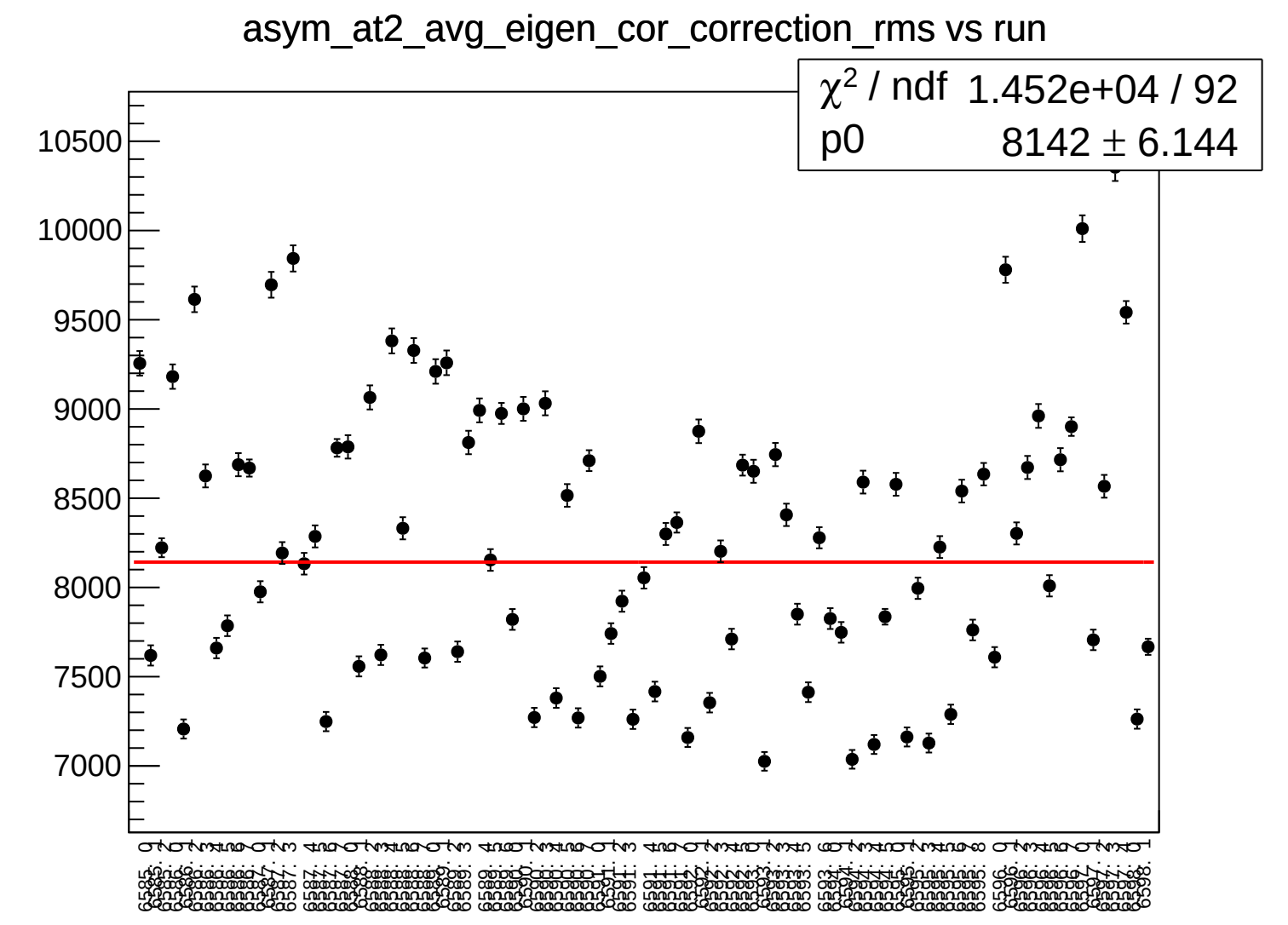

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 97.85 / 92
p0 −4342 ± 2092
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 258.5
Std Dev 0
2
1
0
−1
−2

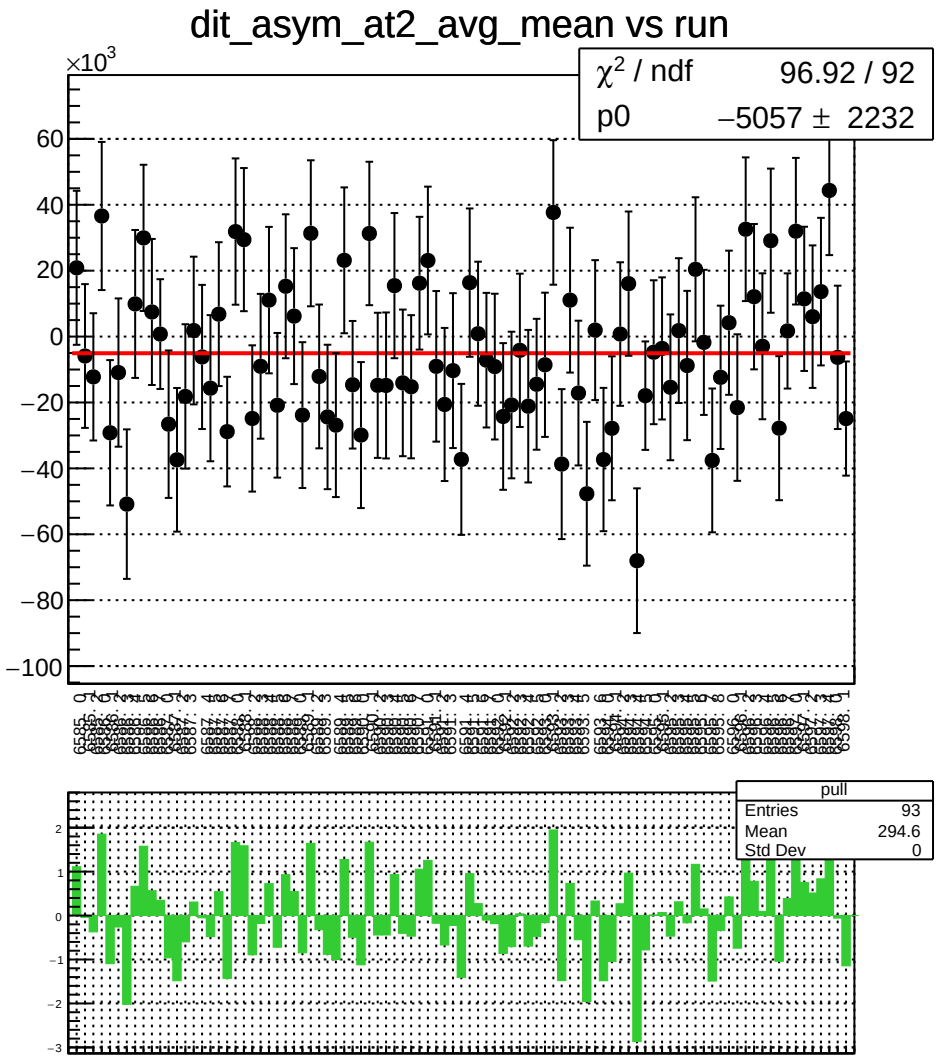

pull1D
Entries 93
Mean 0.006993
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

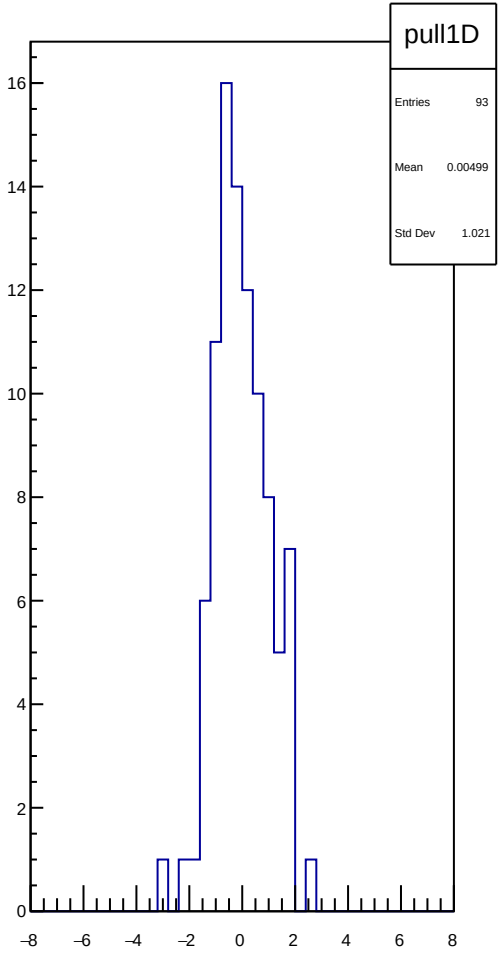

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 356.3 / 92
p0 1968 ± 1.479
2150
2100
2050
2000
1950
1900

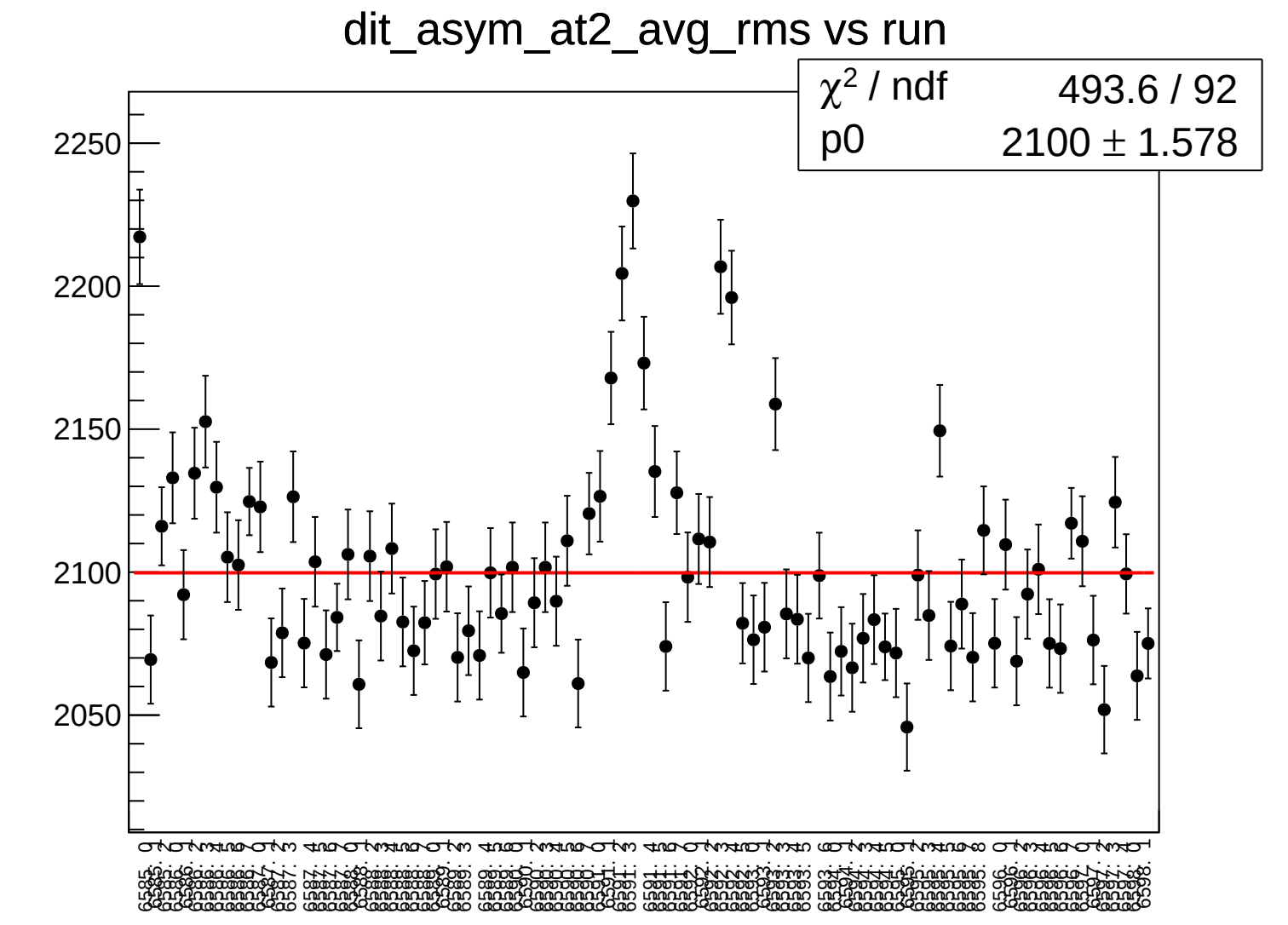

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.34 / 92
p0 4318 ± 8689
300
200
100
0
−100
−200
−300
−400
pull
Entries 93
Mean 138
Std Dev 278.9
3
2
1
0
−1
−2

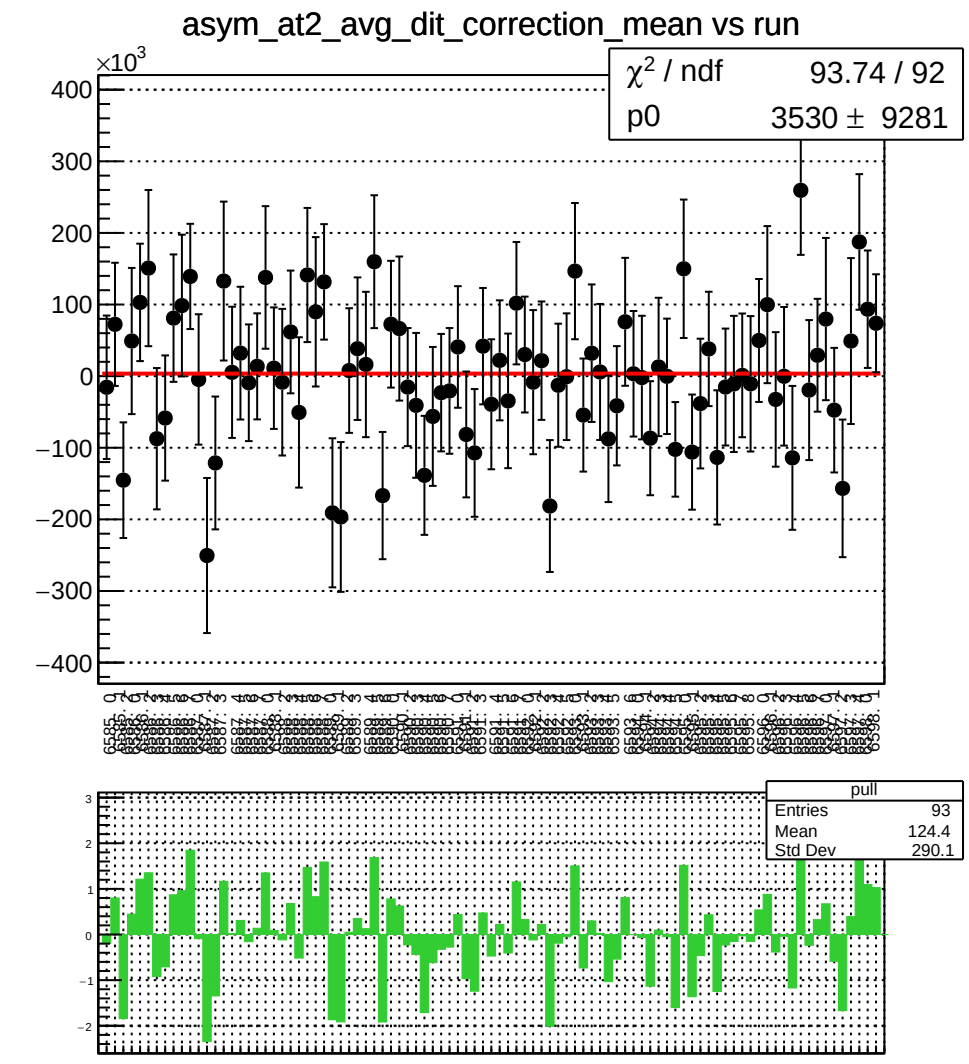

pull1D
Entries 93
Mean 0.001325
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

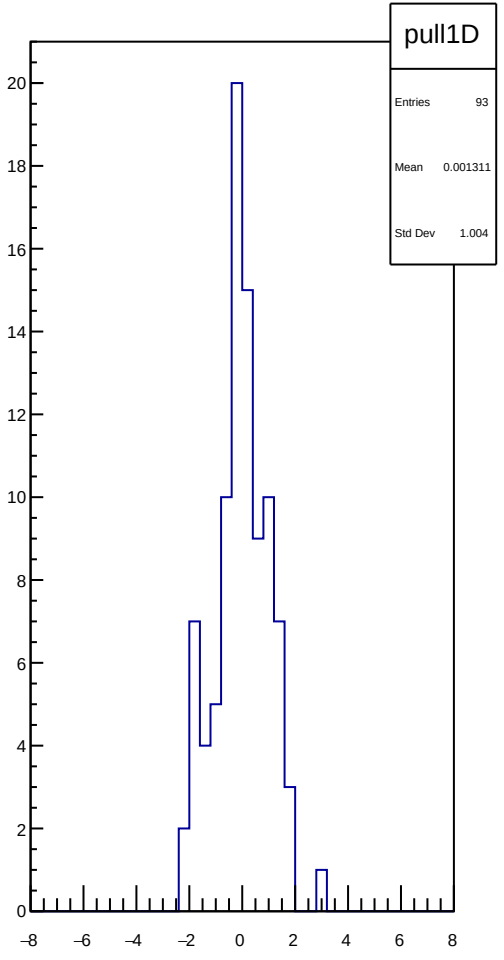

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.452e+04 / 92
p0 8142 ± 6.144
10500
10000
9500
9000
8500
8000
7500
7000

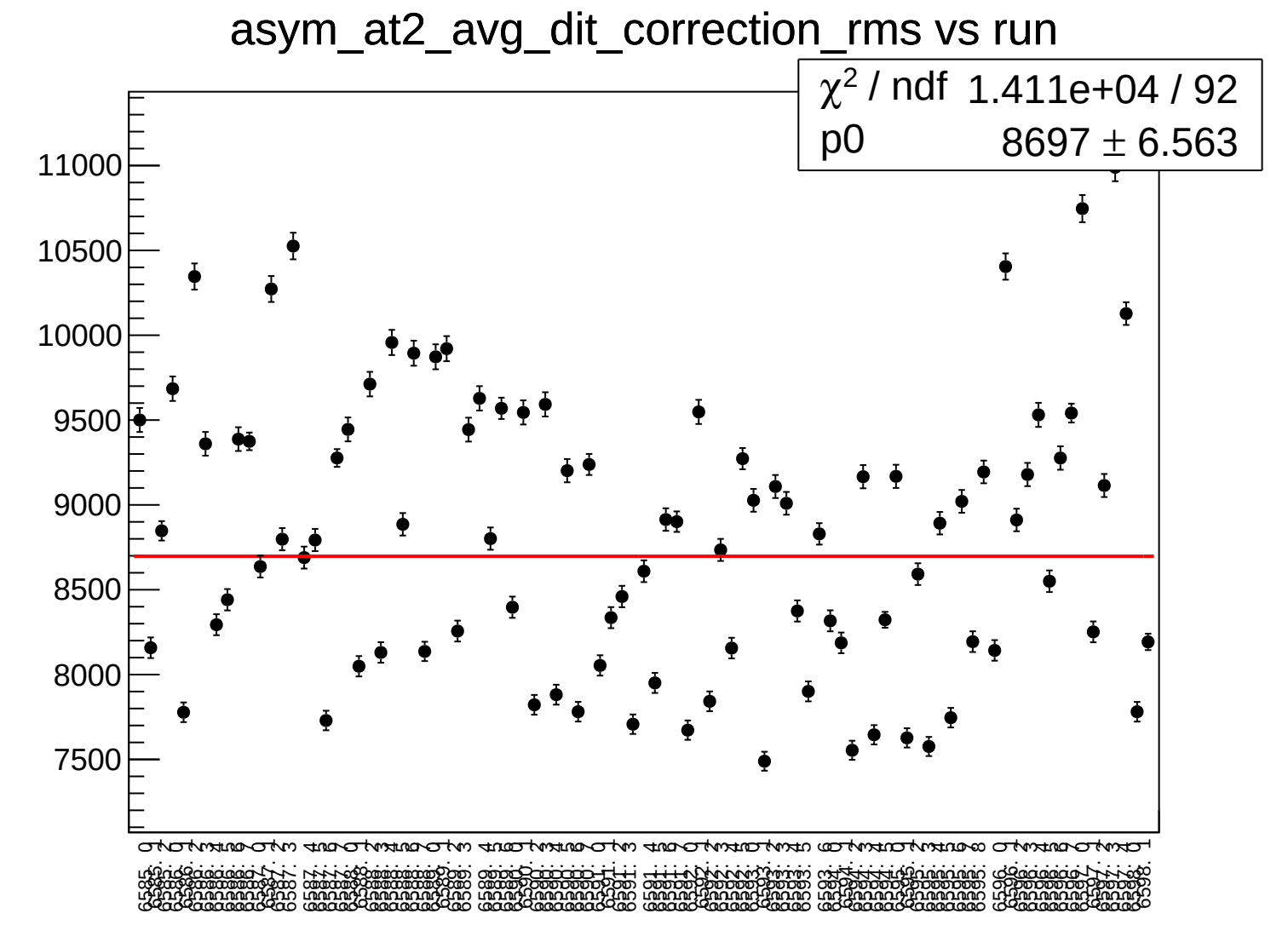

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 96.92 / 92
p0 −5057 ± 2232
pull
Entries 93
Mean 294.6
Std Dev 0

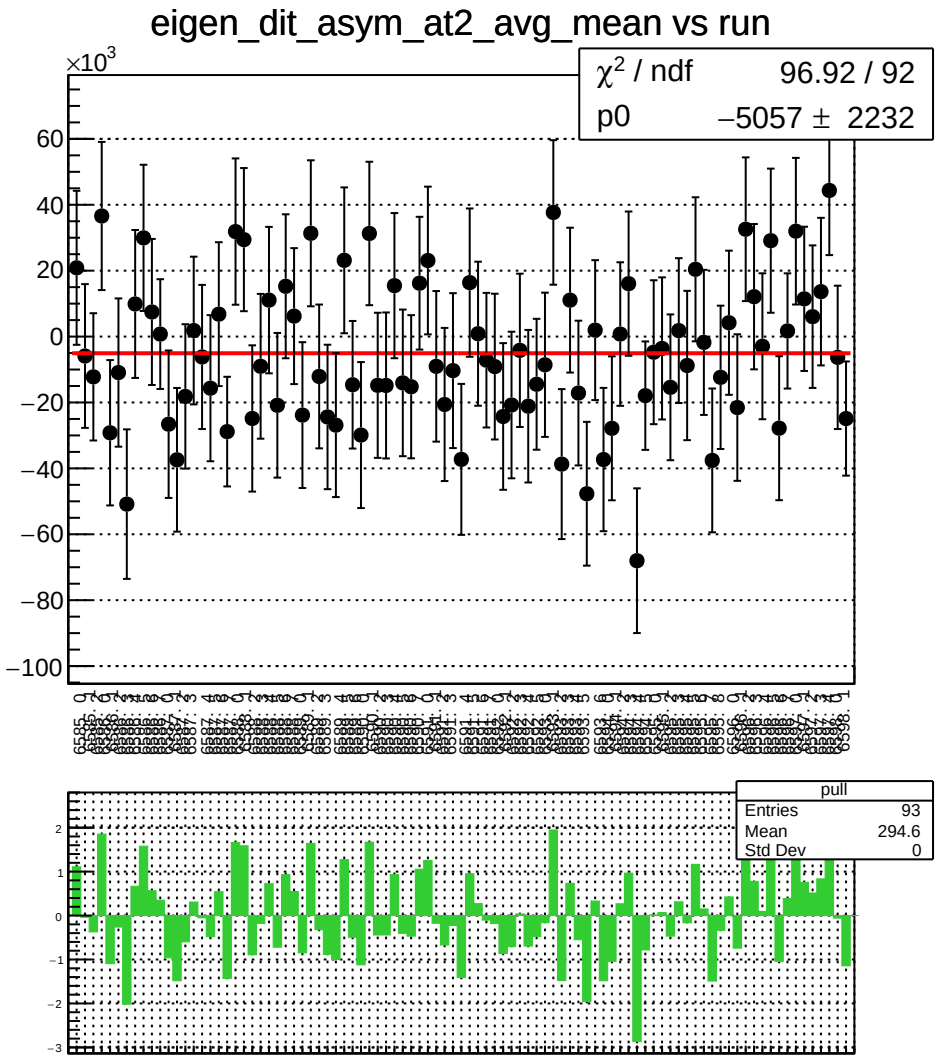

pull1D
Entries 93
Mean 0.00499
Std Dev 1.021

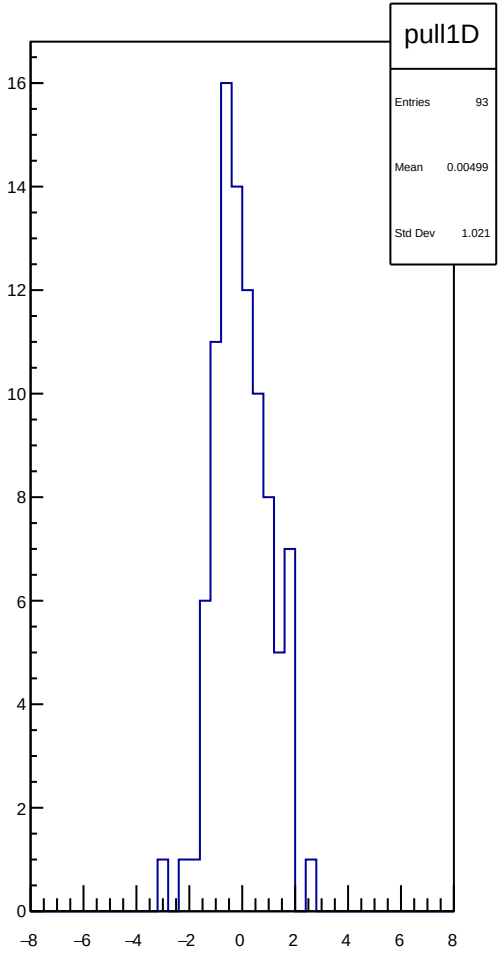

dit_asym_at2_avg_rms vs run
χ^2 / ndf 493.6 / 92
p0 2100 ± 1.578
2250
2200
2150
2100
2050

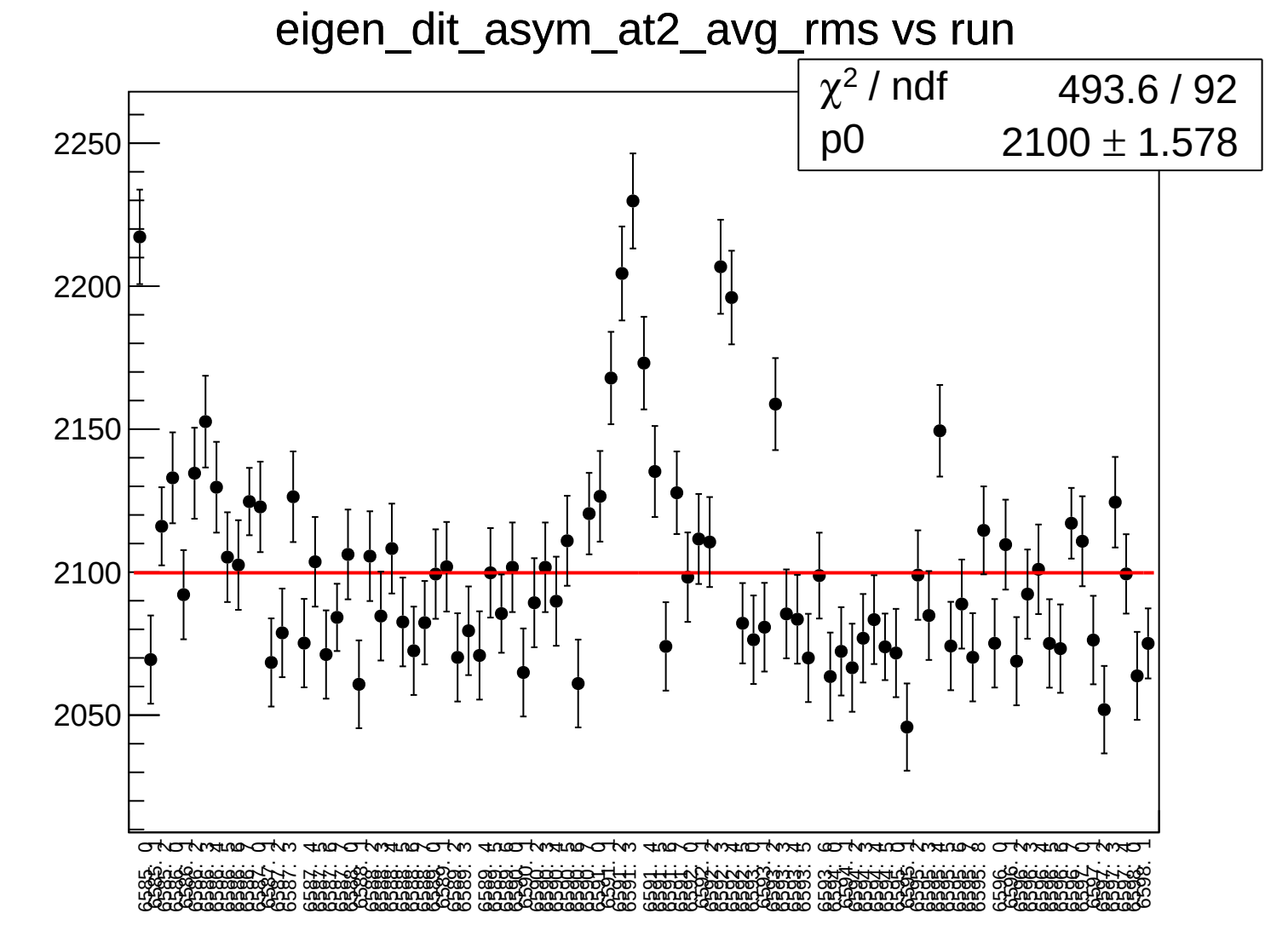

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 93.74 / 92
p0 3530 ± 9281
pull
Entries 93
Mean 124.4
Std Dev 290.1

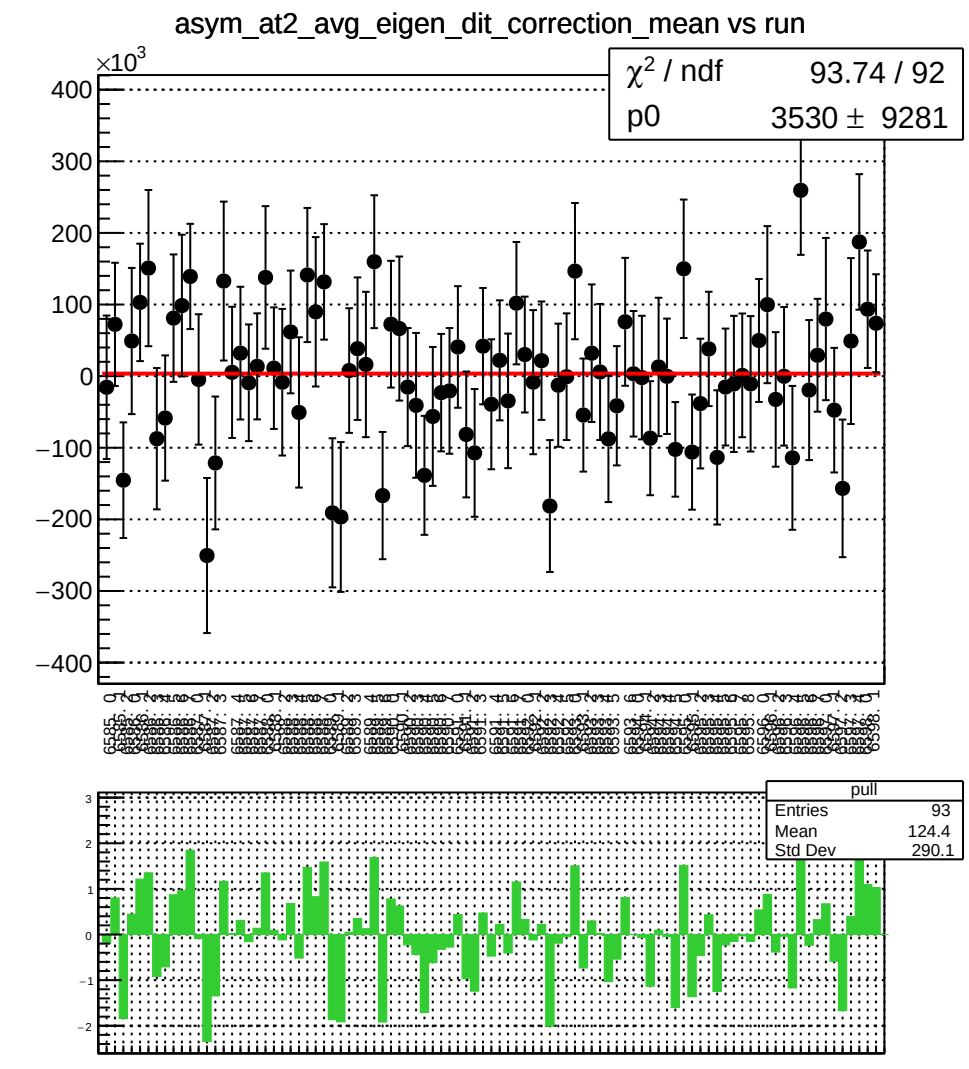

pull1D
Entries 93
Mean 0.001311
Std Dev 1.004

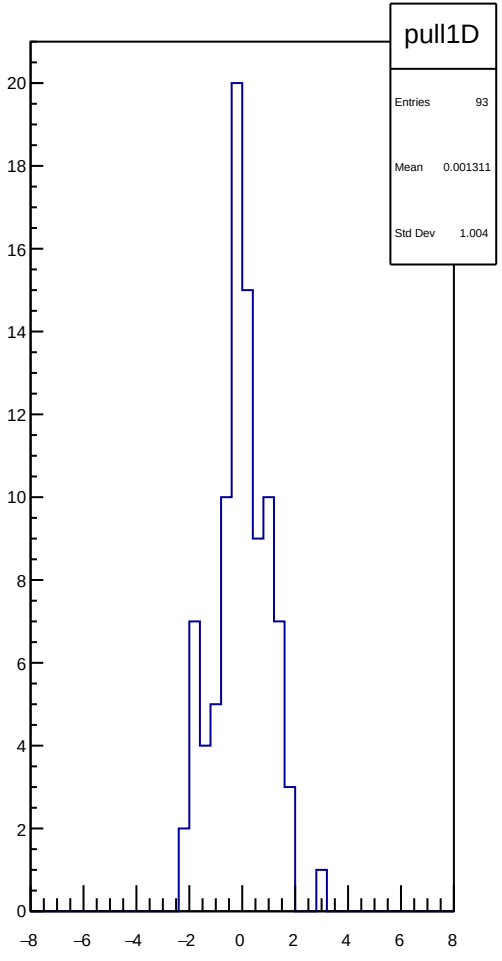

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.411e+04 / 92
p0 8697 ± 6.563
11000
10500
10000
9500
9000
8500
8000
7500

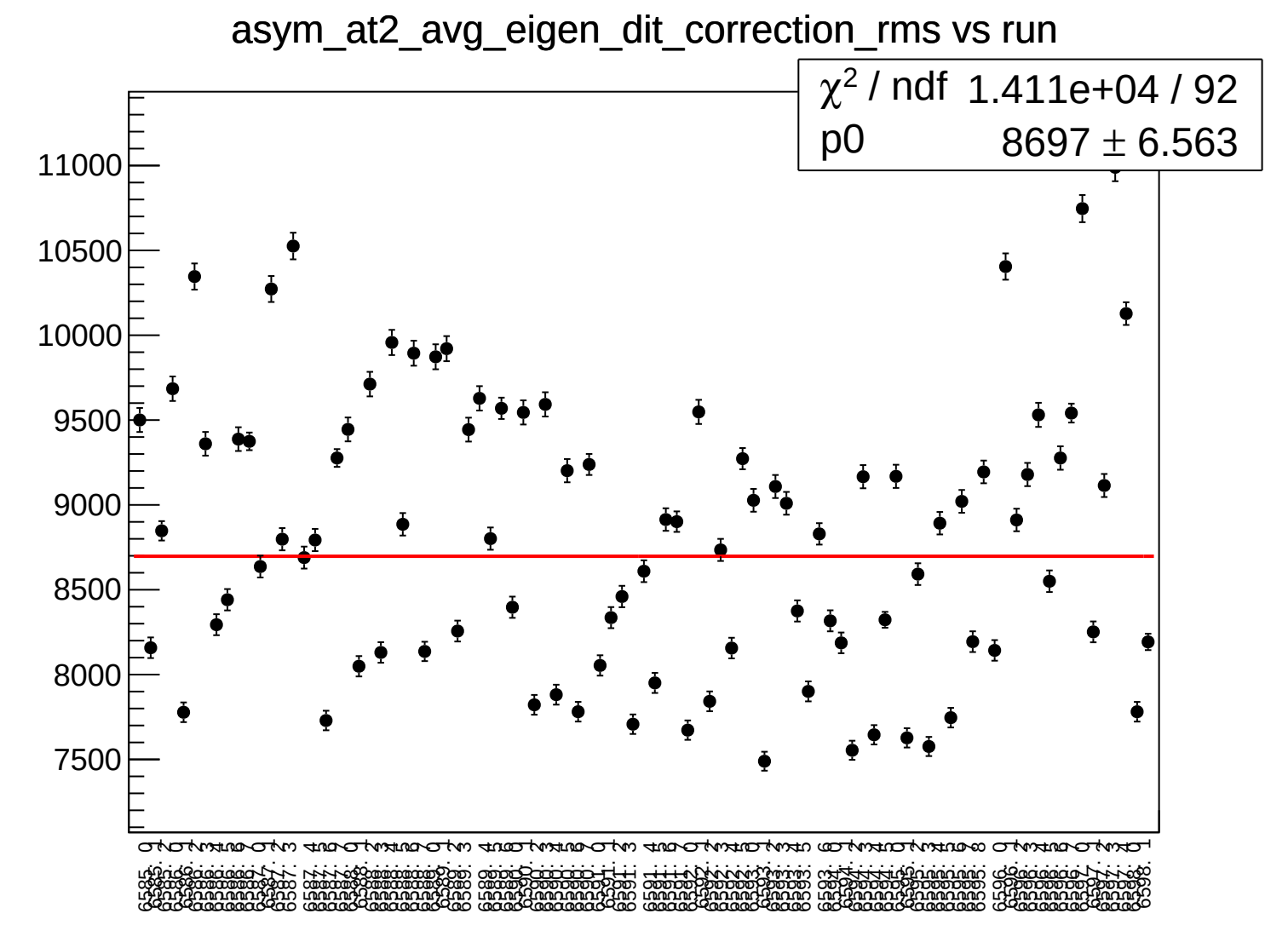

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 96.92 / 92
p0 −5057 ± 2232
×10³
pull
Entries 93
Mean 294.6
Std Dev 0

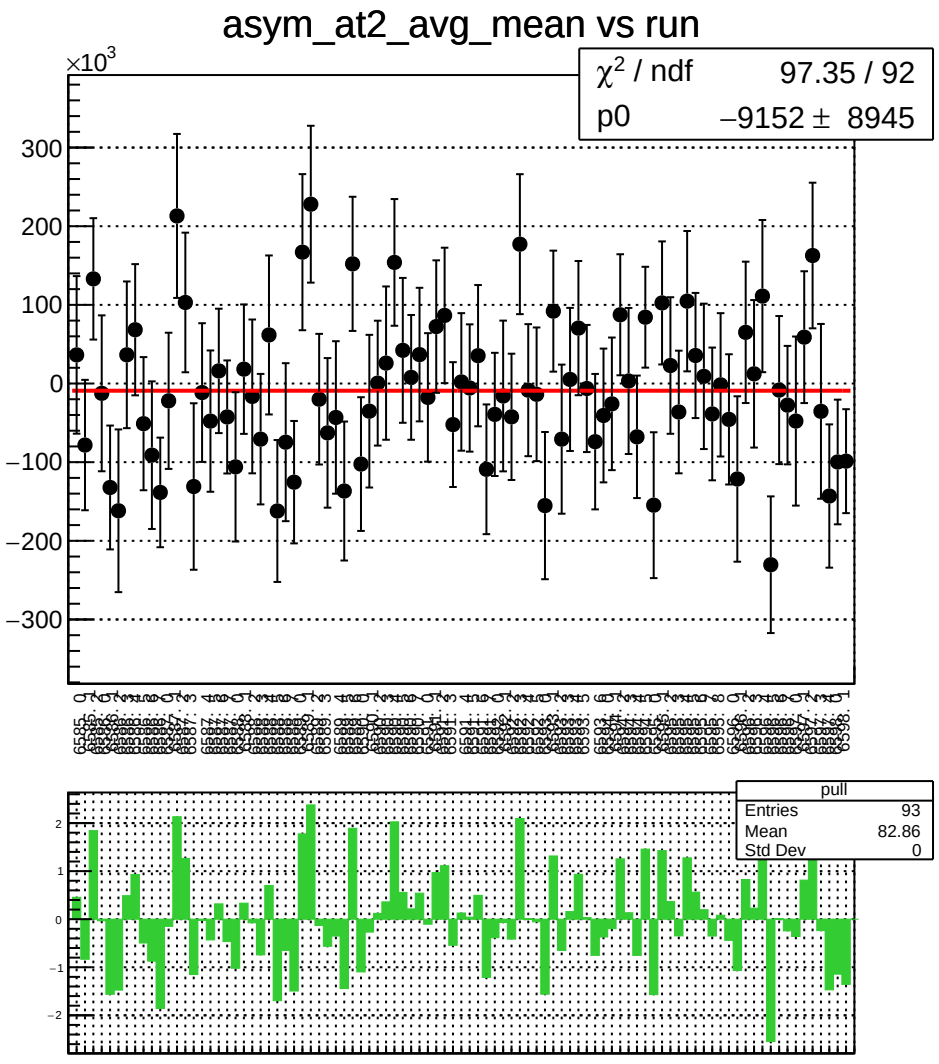

pull1D
Entries 93
Mean 0.00499
Std Dev 1.021

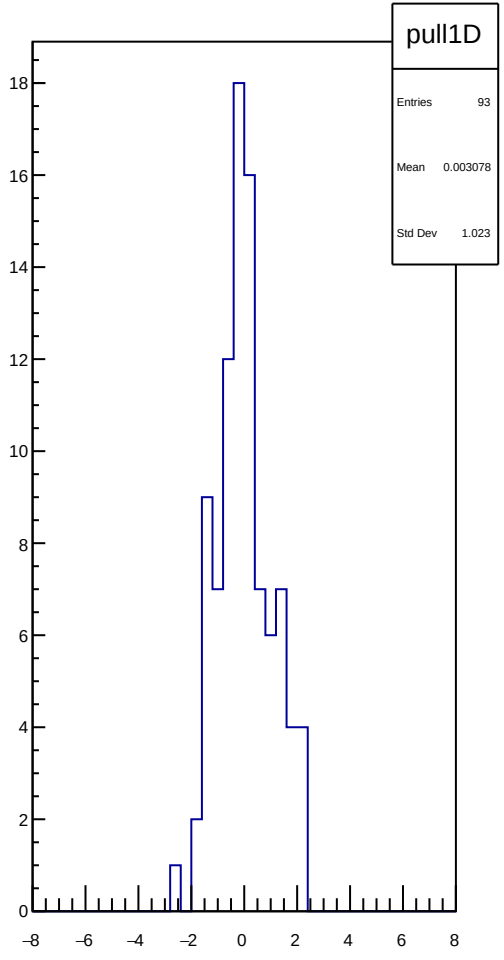

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 493.6 / 92
p0 2100 ± 1.578
2250
2200
2150
2100
2050

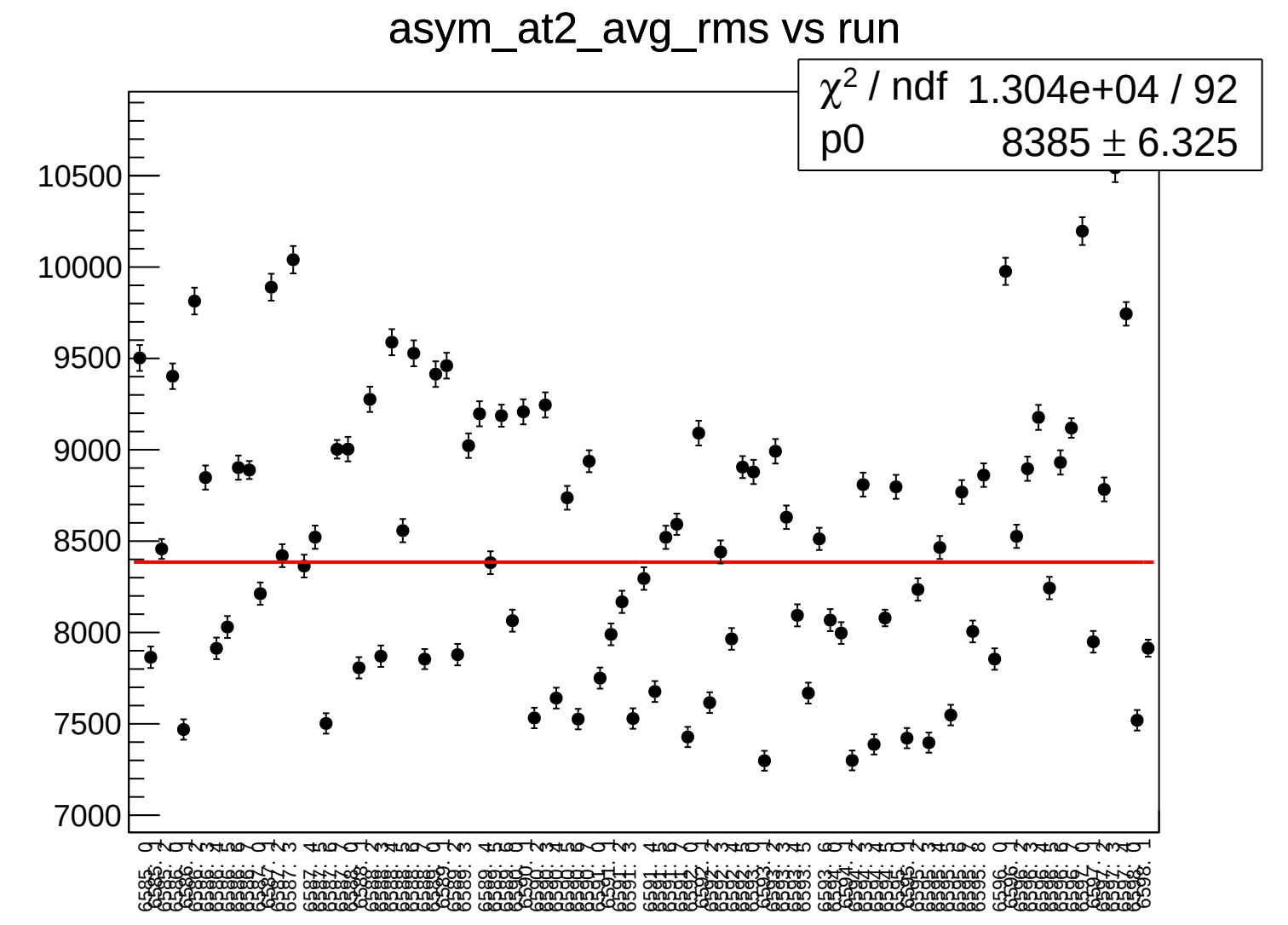

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 93.74 / 92
p0 3530 ± 9281
pull
Entries 93
Mean 124.4
Std Dev 290.1

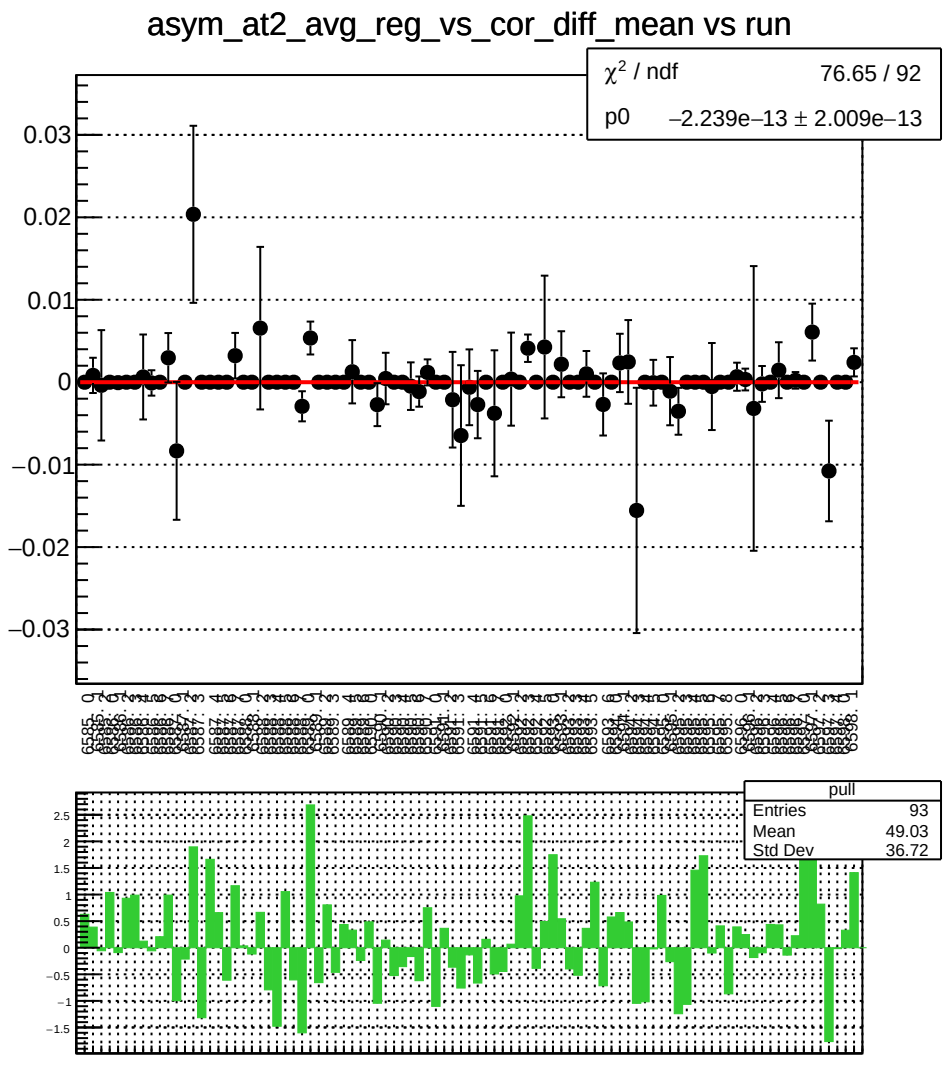

pull1D
Entries 93
Mean 0.001311
Std Dev 1.004

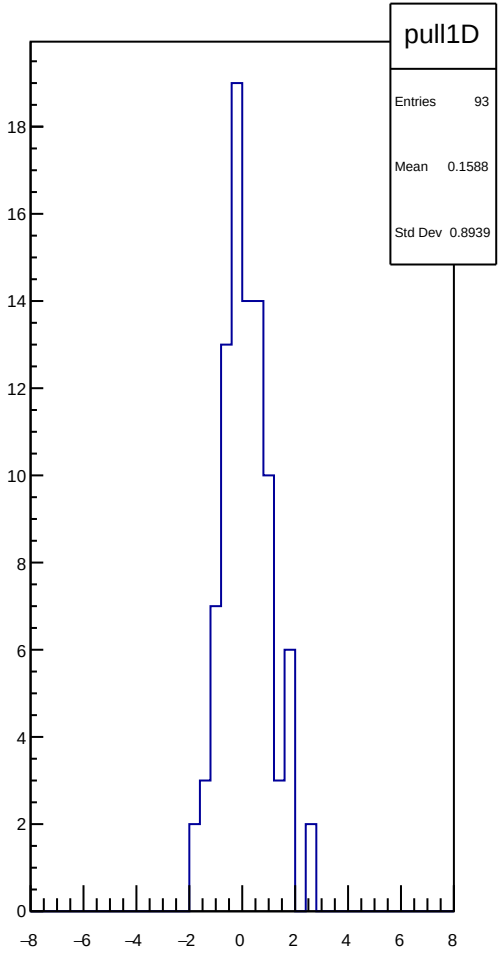

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.411e+04 / 92
p0 8697 ± 6.563
11000
10500
10000
9500
9000
8500
8000
7500

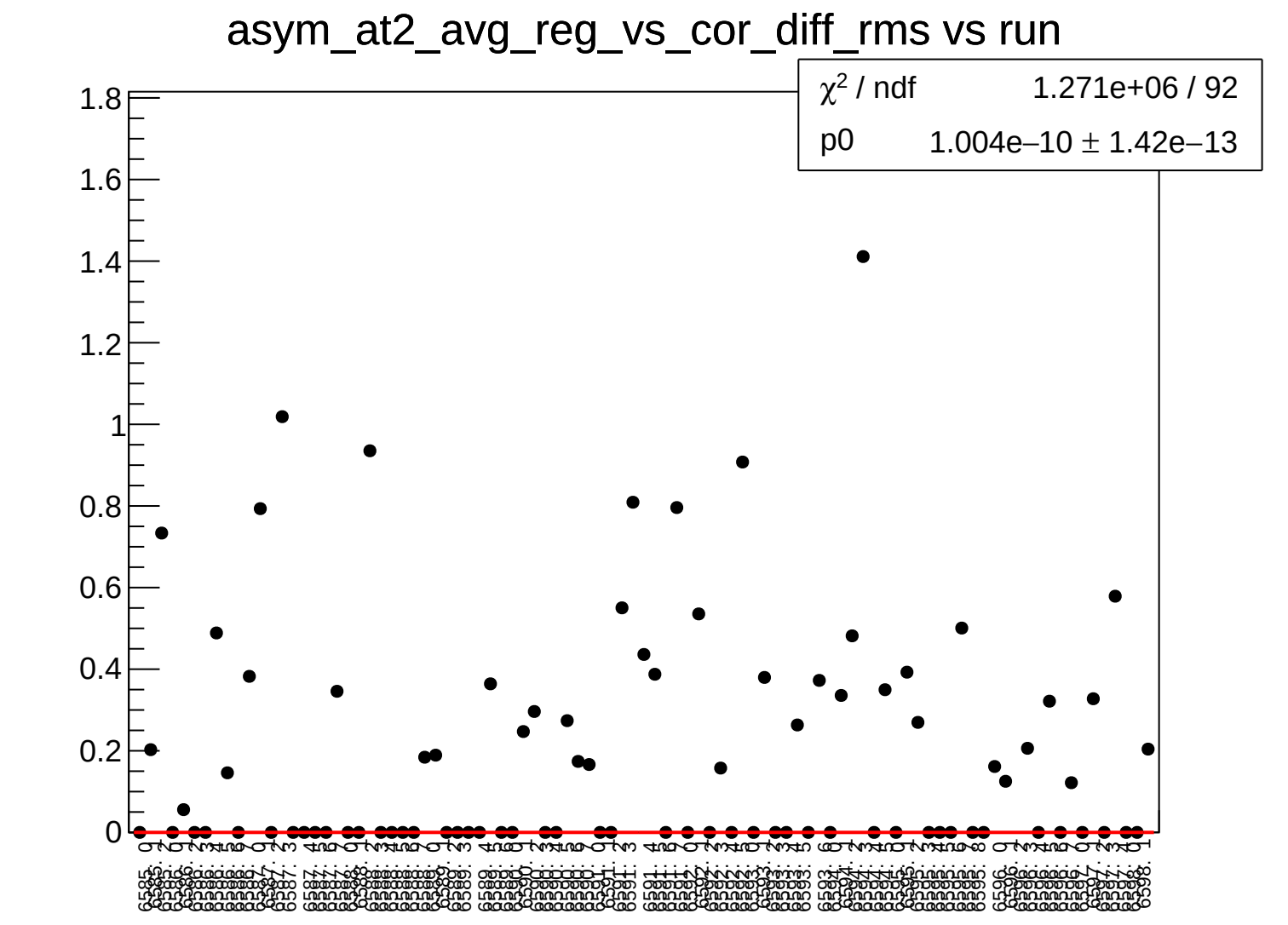

asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 97.35 / 92
p0 −9152 ± 8945
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 82.86
Std Dev 0
2
1
0
−1
−2

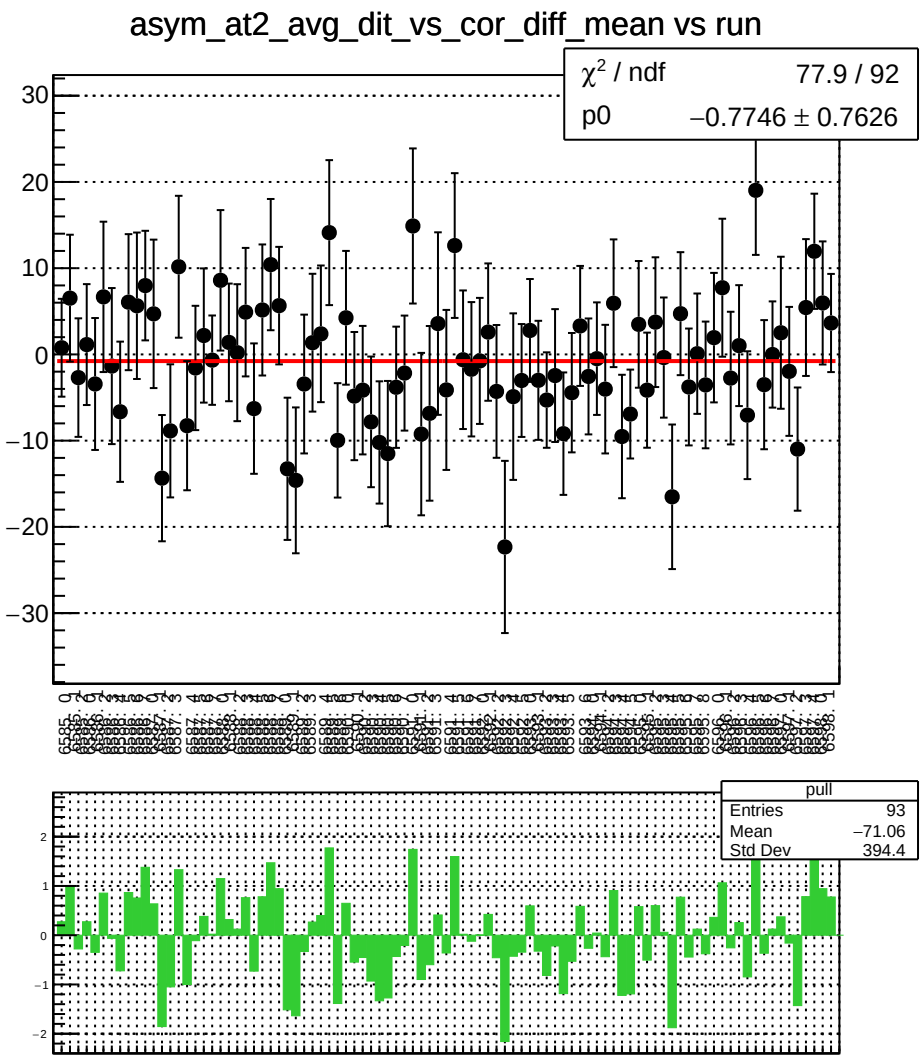

pull1D
Entries 93
Mean 0.003078
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

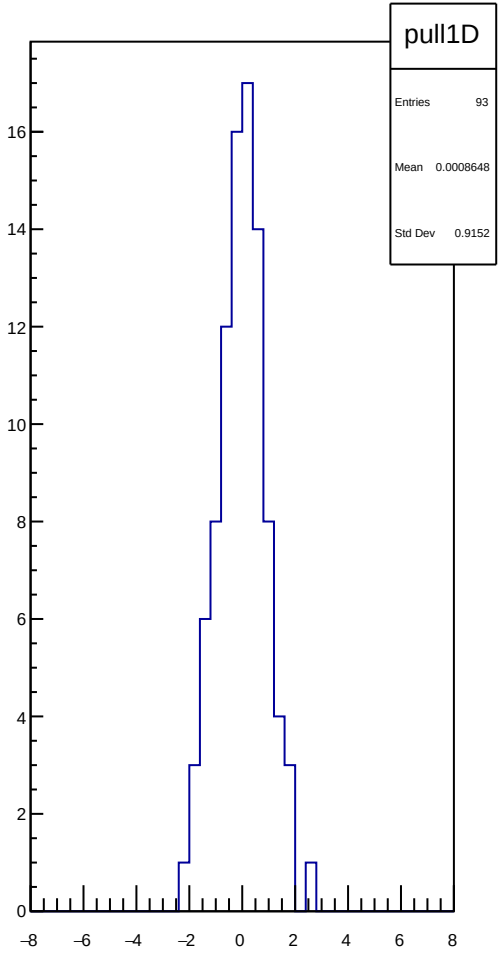

asym_at2_avg_rms vs run
χ^2 / ndf 1.304e+04 / 92
p0 8385 ± 6.325
10500
10000
9500
9000
8500
8000
7500
7000

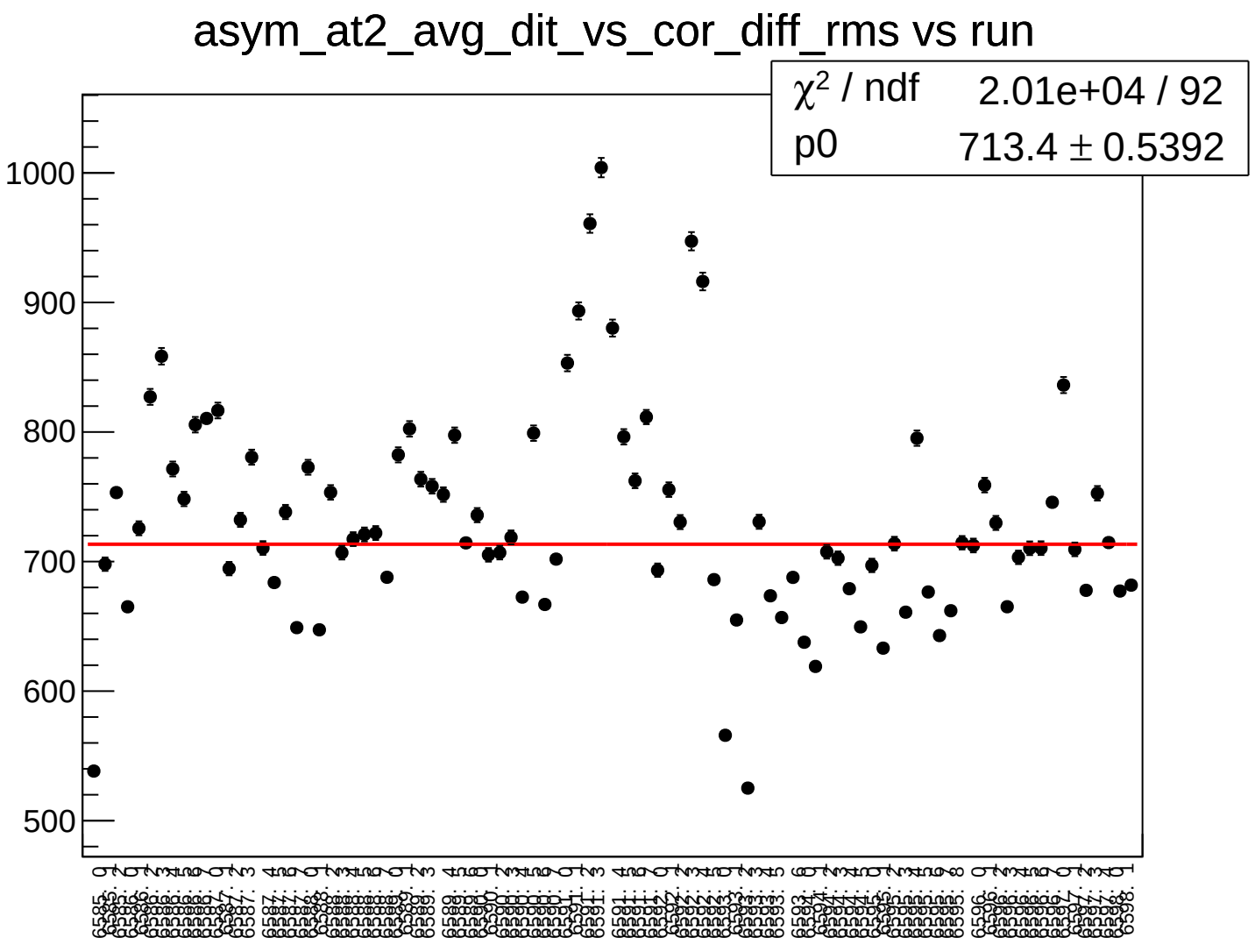

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.65 / 92
p0 −2.239e−13 ± 2.009e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 49.03
Std Dev 36.72
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

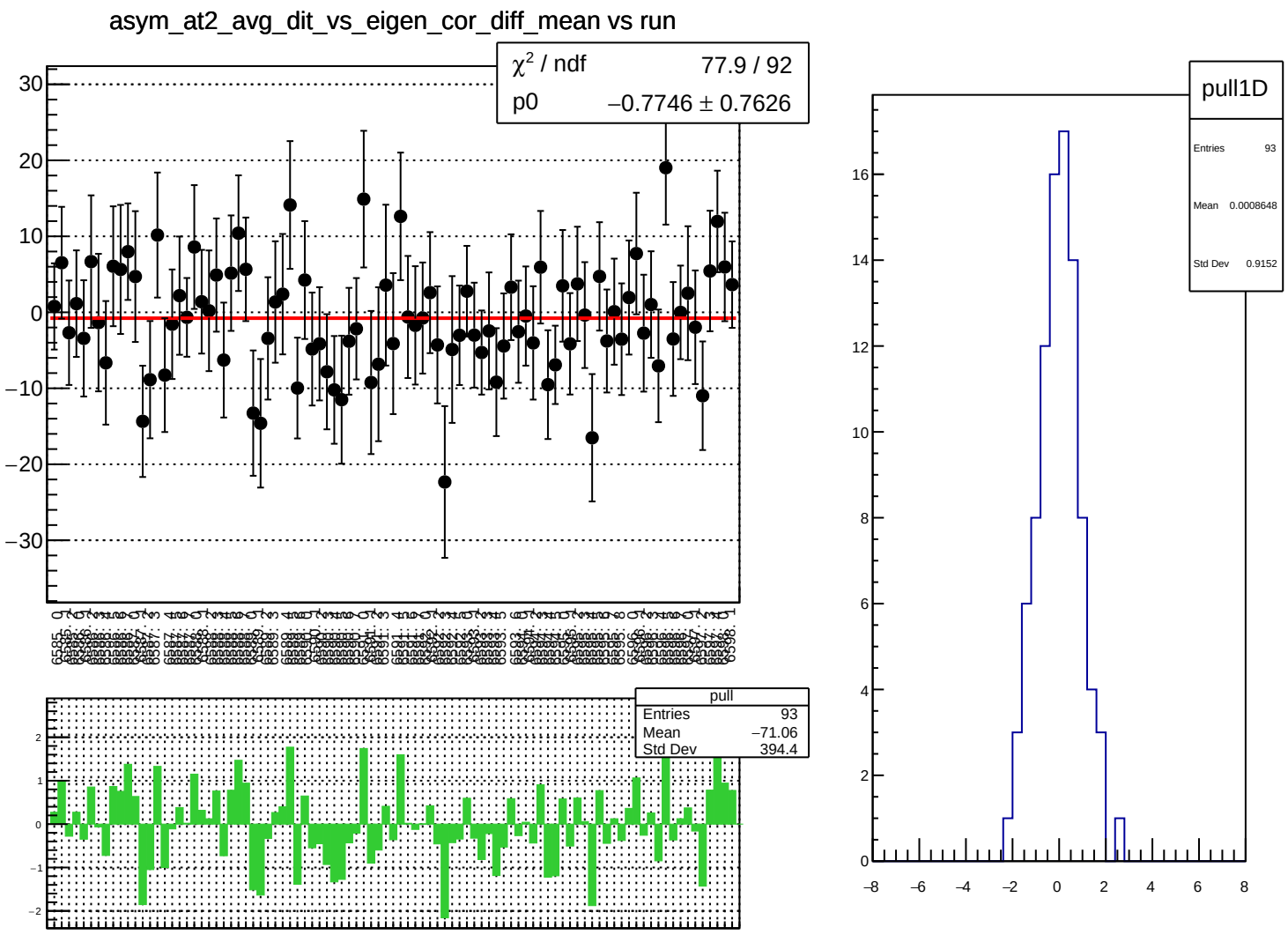

pull1D
Entries 93
Mean 0.1588
Std Dev 0.8939
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

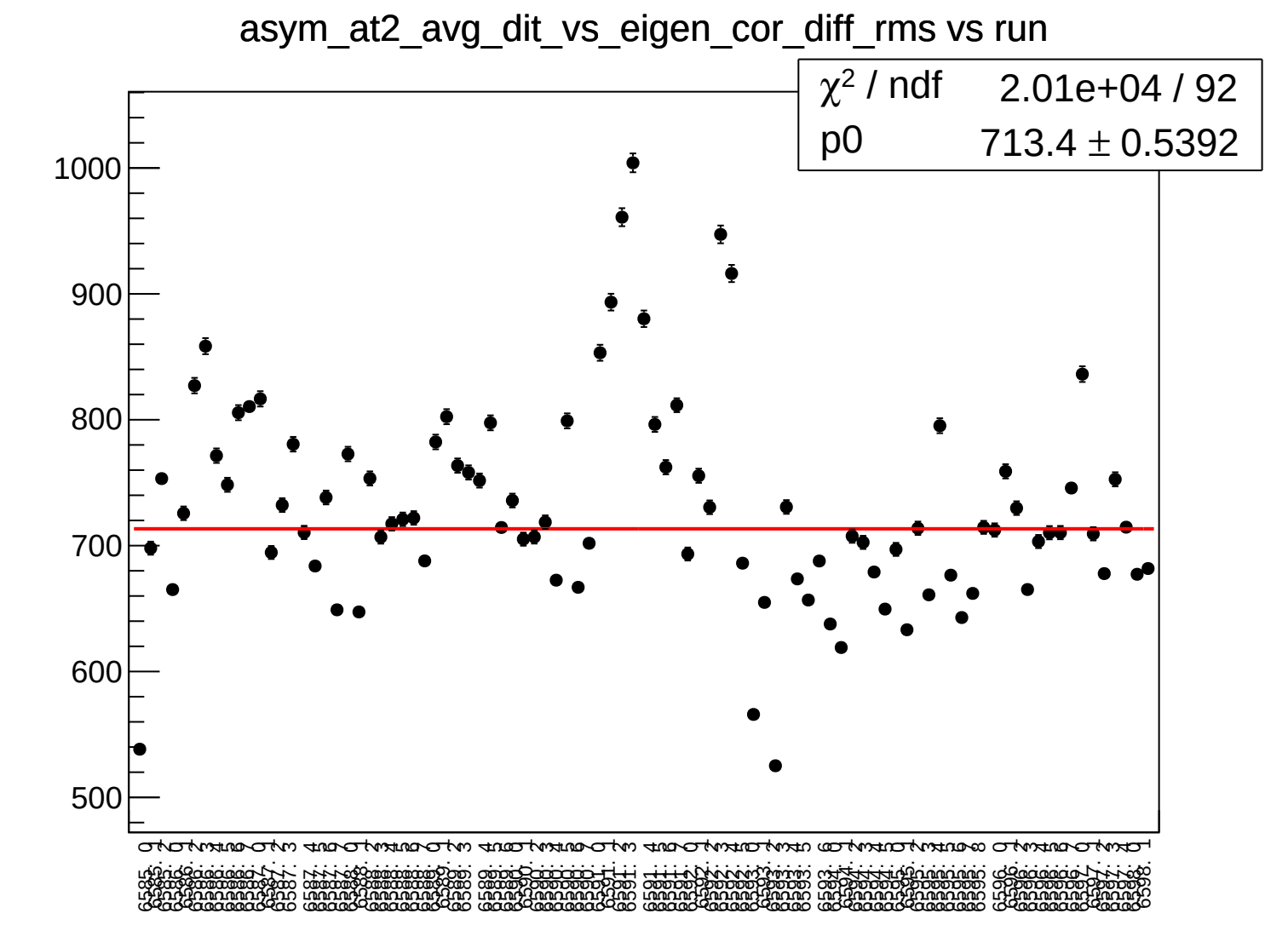

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.271e+06 / 92
p0 1.004e−10 ± 1.42e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

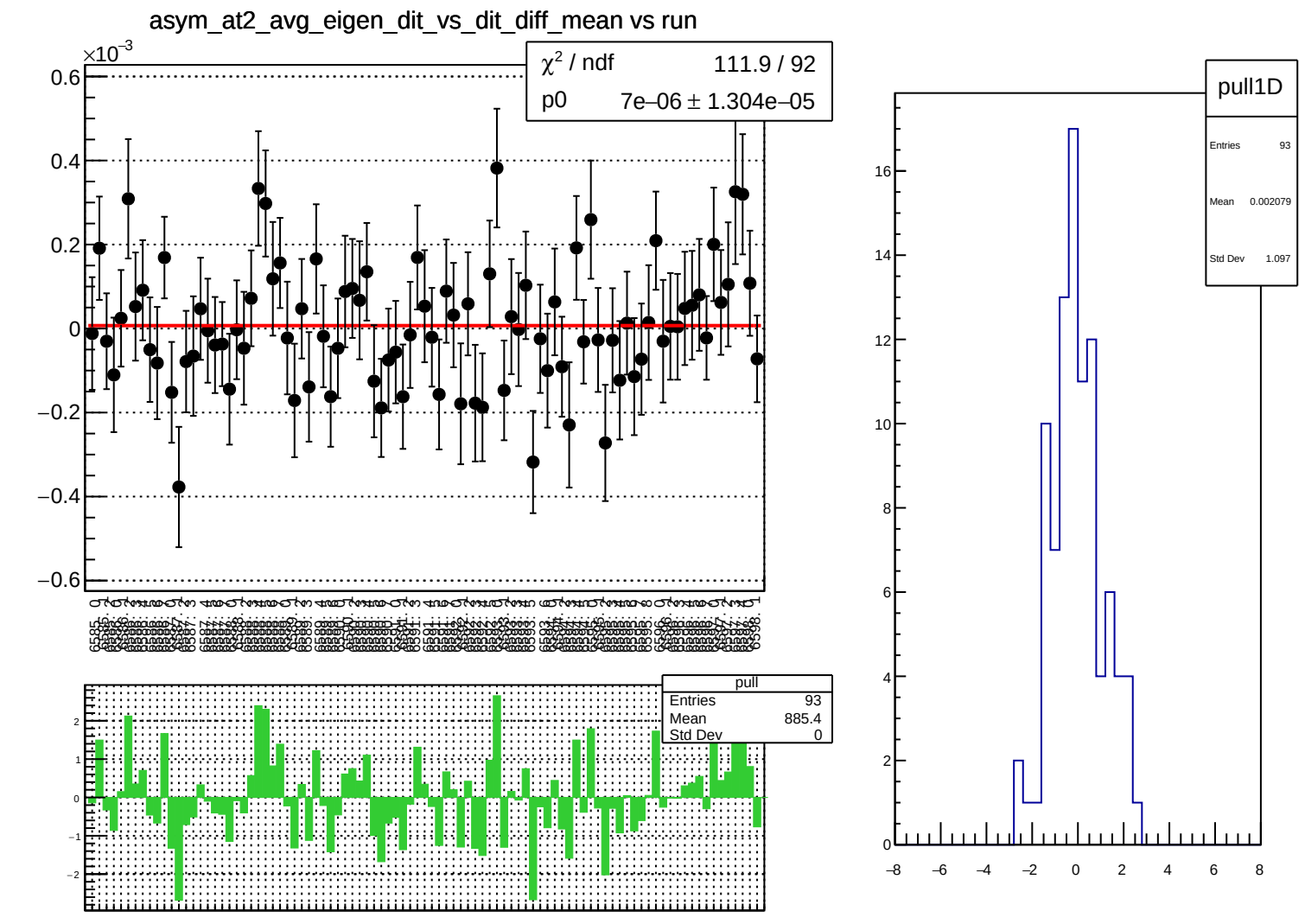

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.9 / 92
p0 −0.7746 ± 0.7626
pull
Entries 93
Mean −71.06
Std Dev 394.4

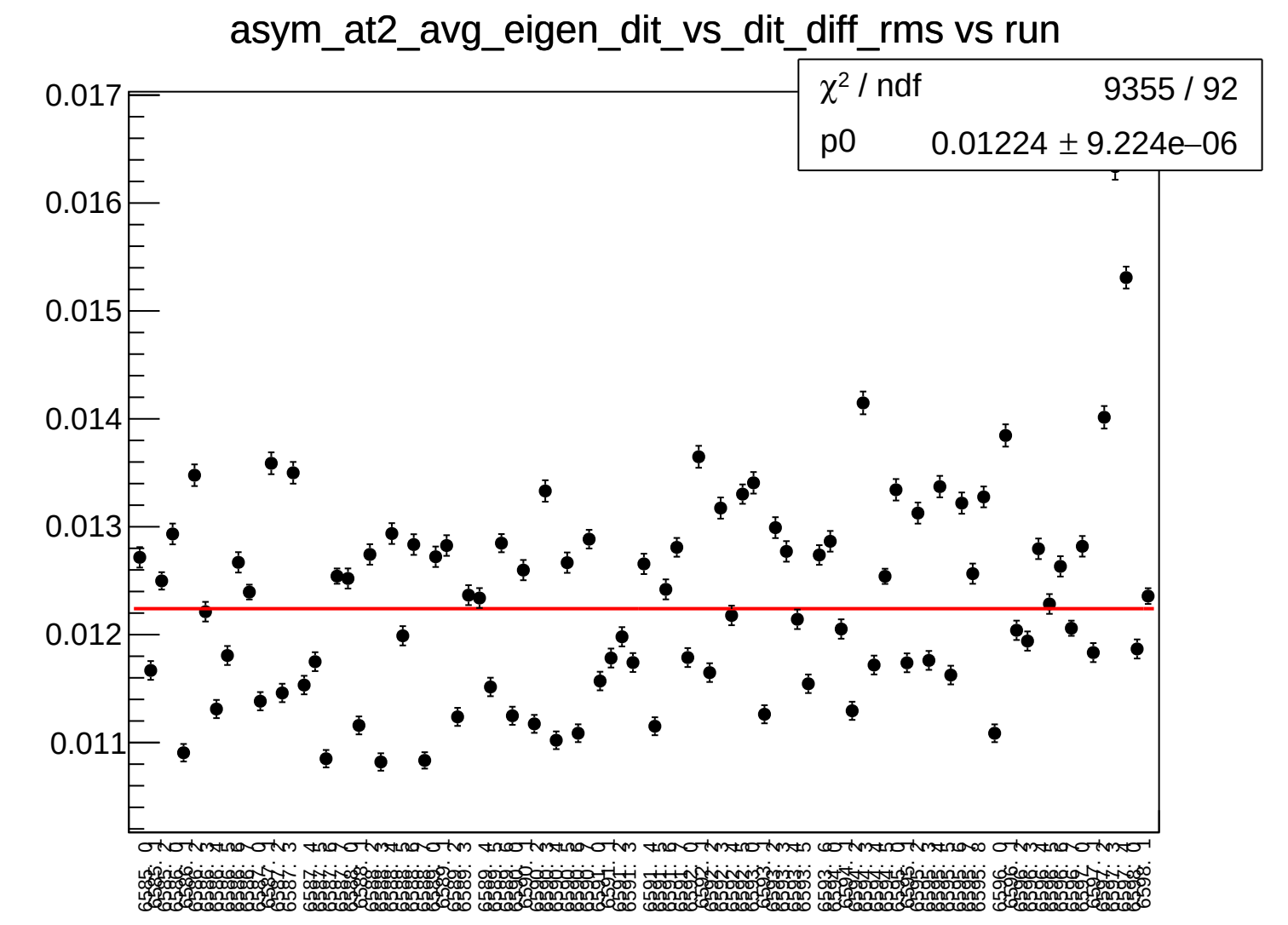

pull1D
Entries 93
Mean 0.0008648
Std Dev 0.9152

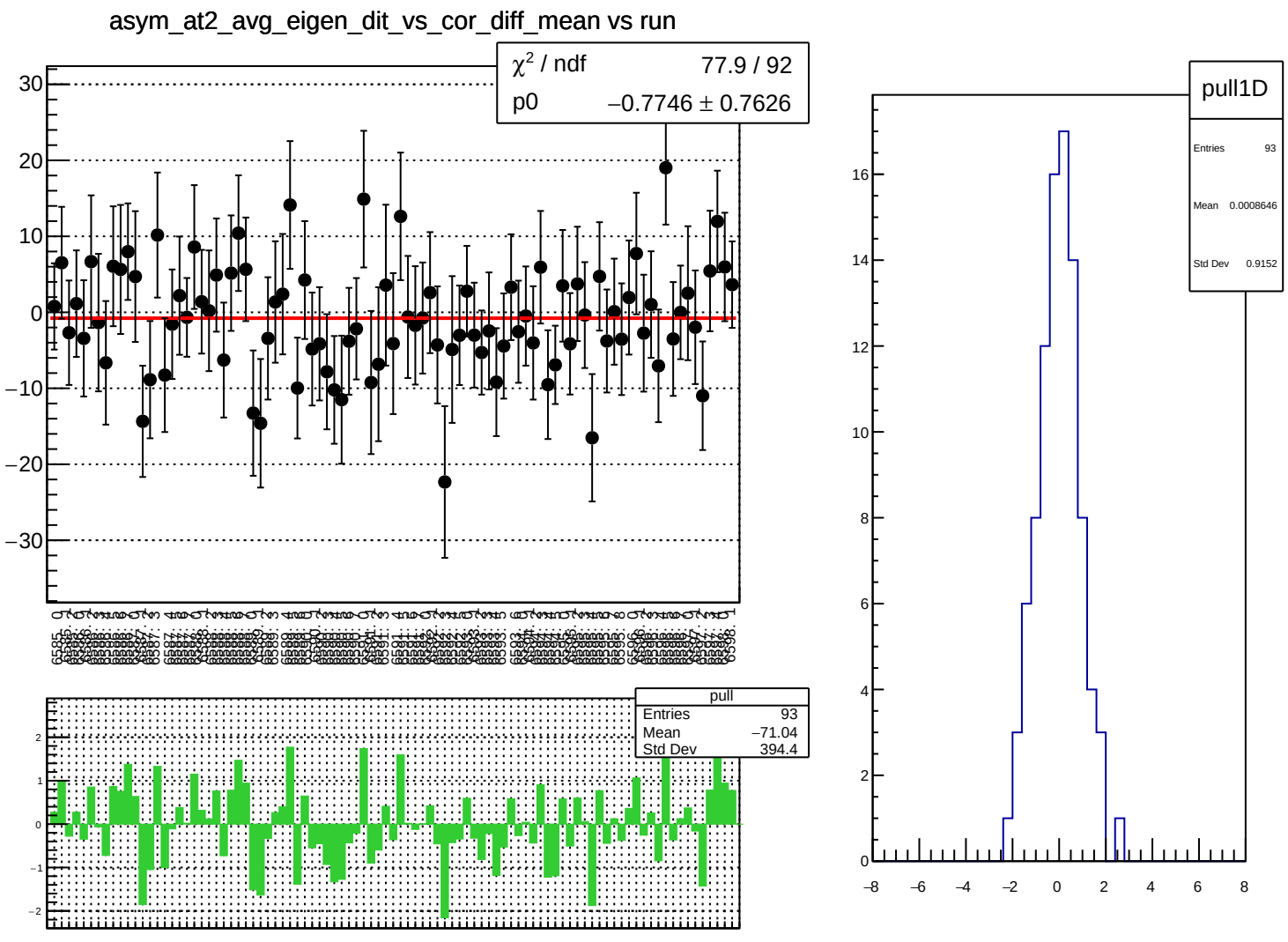

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.01e+04 / 92
p0 713.4 ± 0.5392
1000
900
800
700
600
500

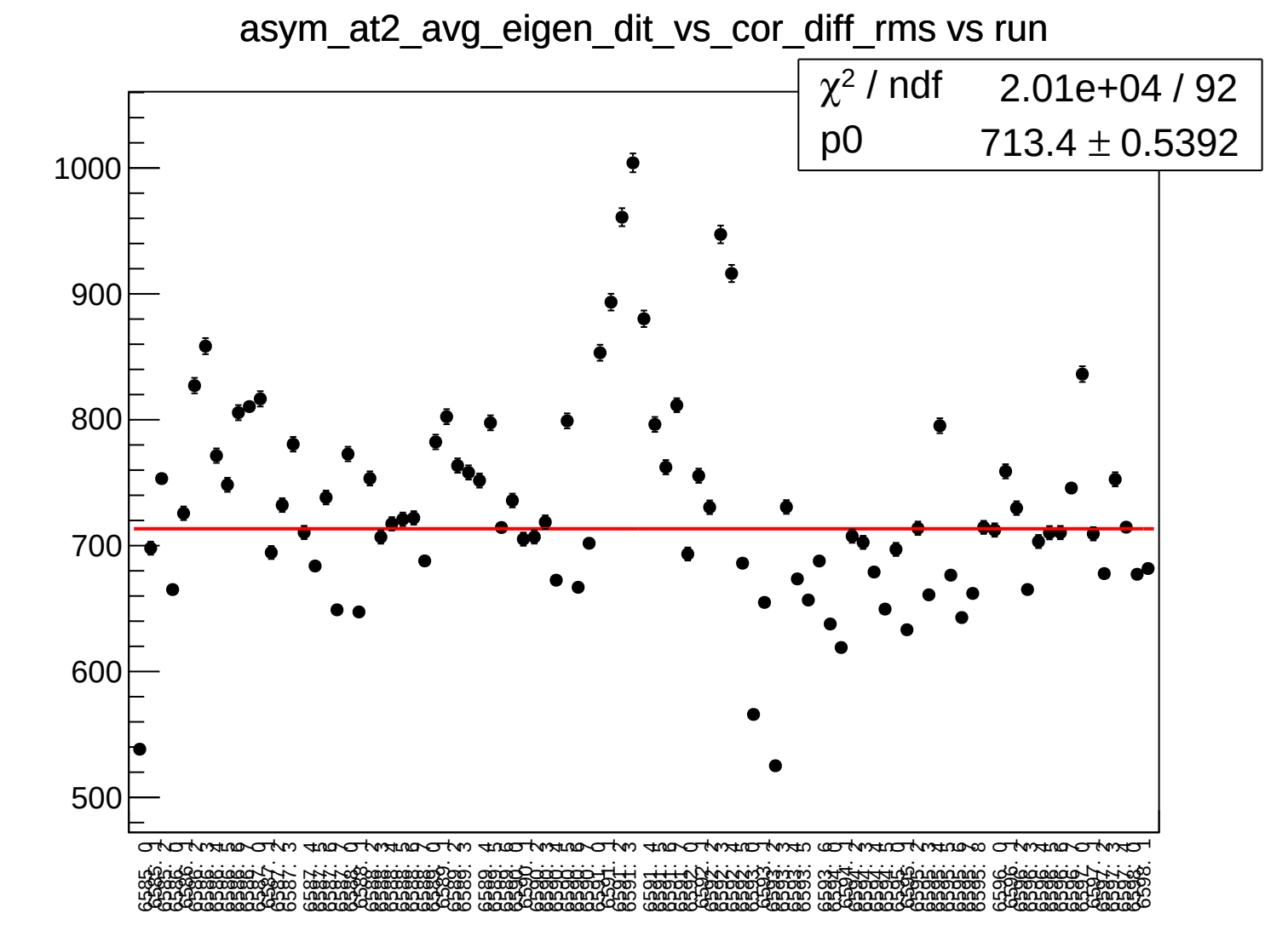

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.9 / 92
p0 −0.7746 ± 0.7626
pull
Entries 93
Mean −71.06
Std Dev 394.4
pull1D
Entries 93
Mean 0.0008648
Std Dev 0.9152

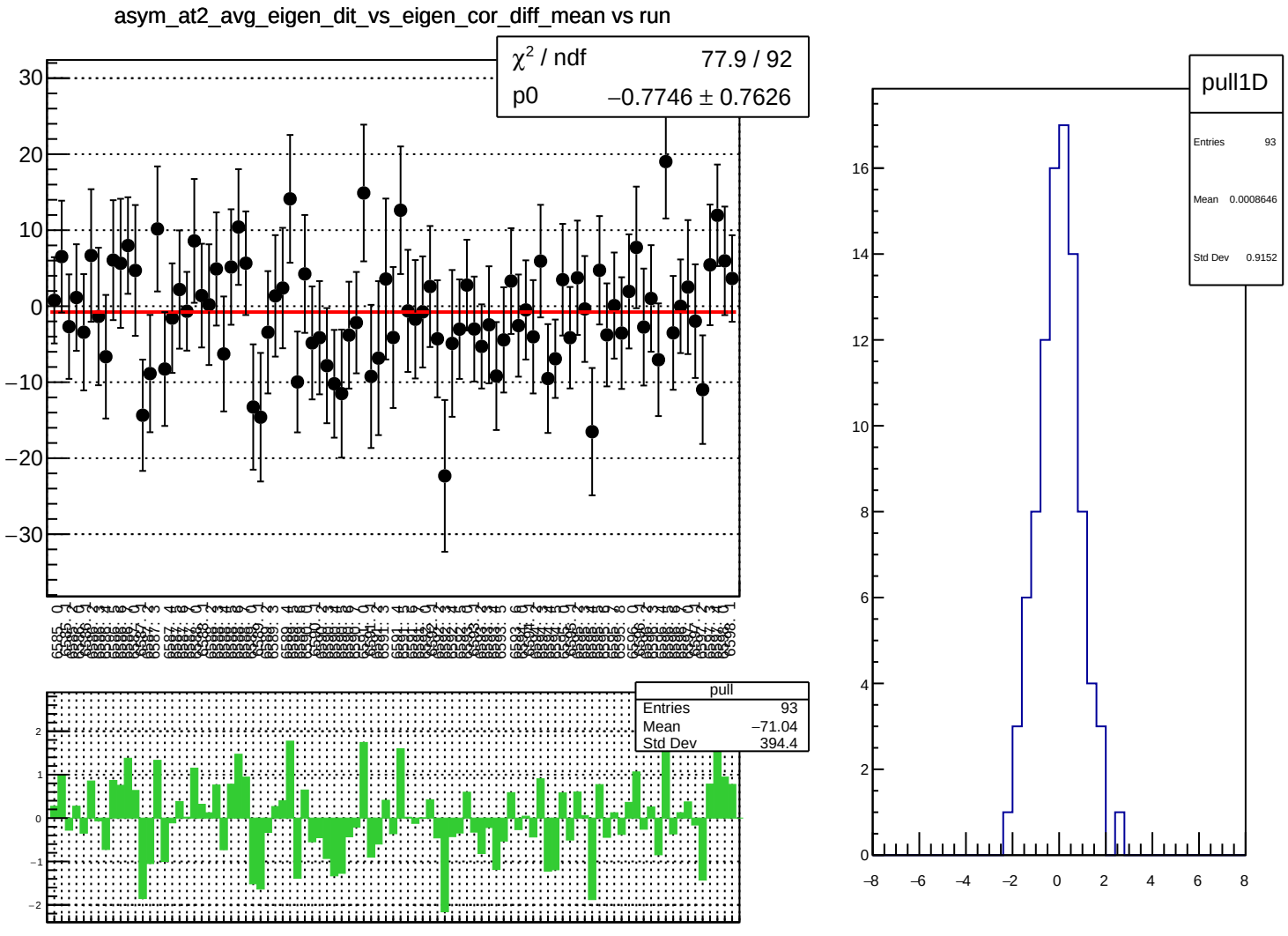

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.01e+04 / 92
p0 713.4 ± 0.5392
1000
900
800
700
600
500

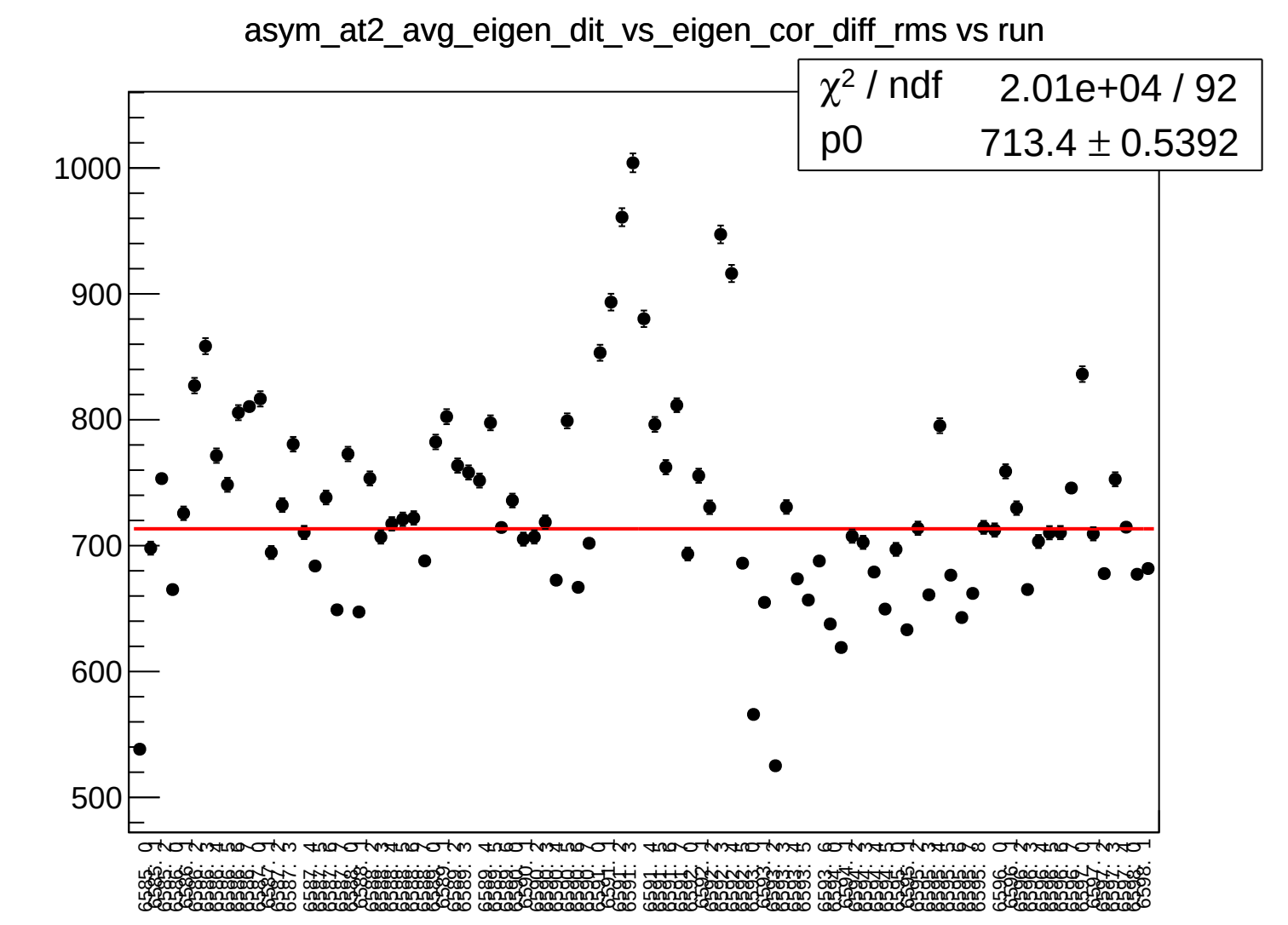

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.9 / 92
p0 7e–06 ± 1.304e–05
pull
Entries 93
Mean 885.4
Std Dev 0
pull1D
Entries 93
Mean 0.002079
Std Dev 1.097

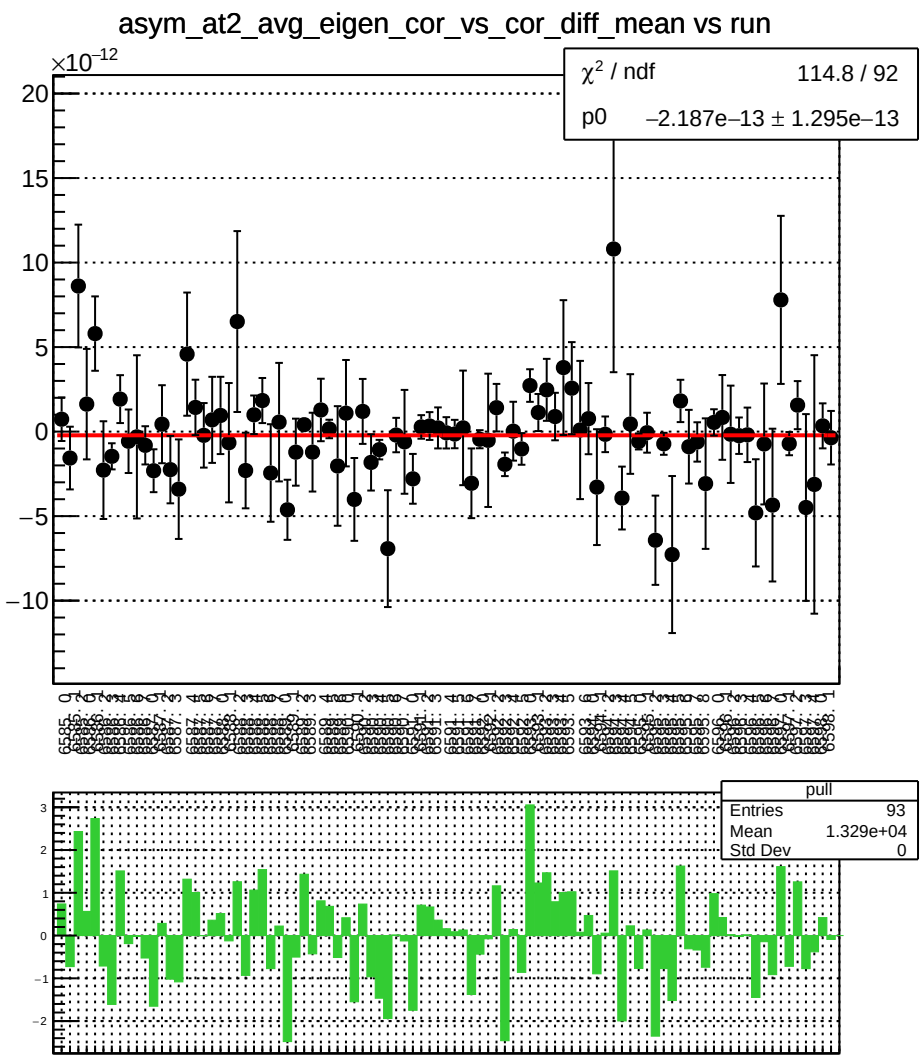

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9355 / 92
p0 0.01224 ± 9.224e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011

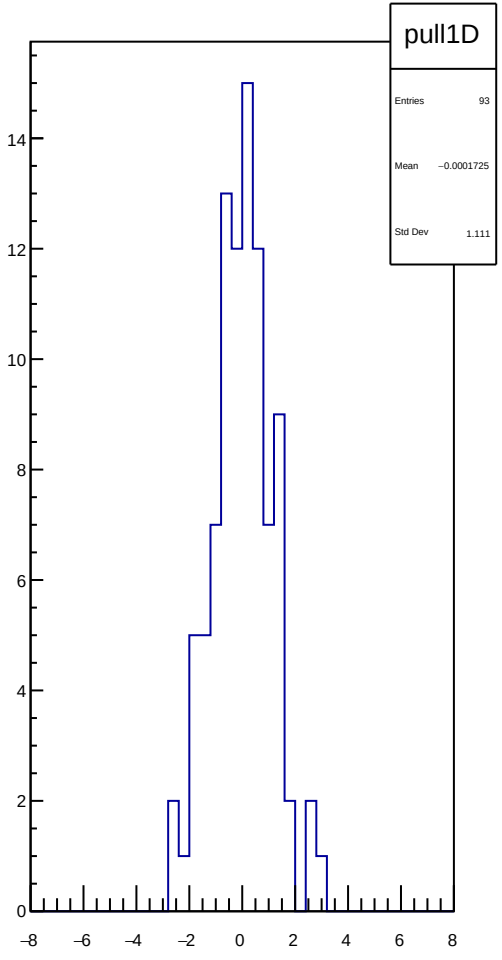

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.9 / 92
p0 −0.7746 ± 0.7626
pull
Entries 93
Mean −71.04
Std Dev 394.4
pull1D
Entries 93
Mean 0.0008646
Std Dev 0.9152

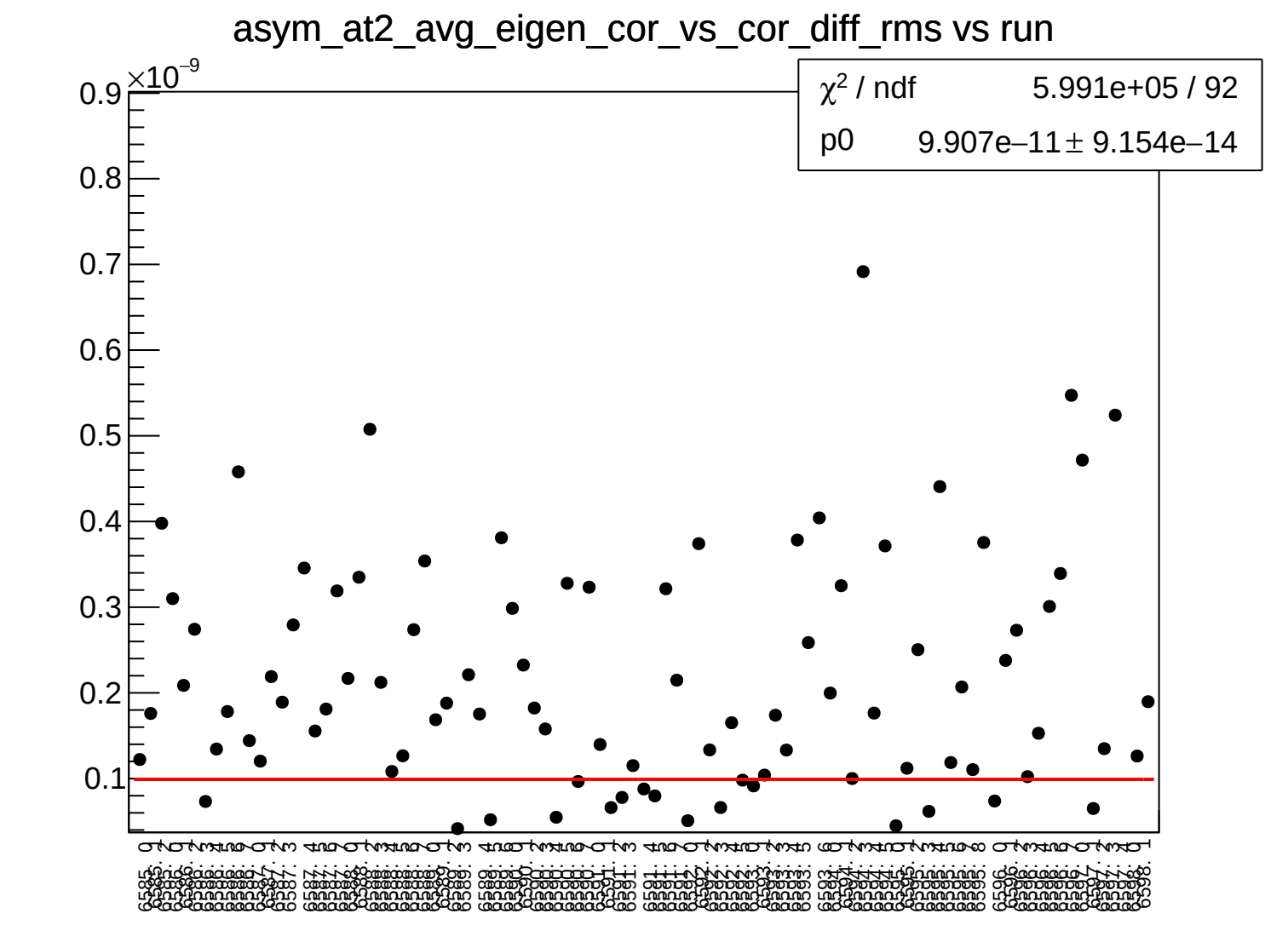

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.01e+04 / 92
p0 713.4 ± 0.5392
1000
900
800
700
600
500

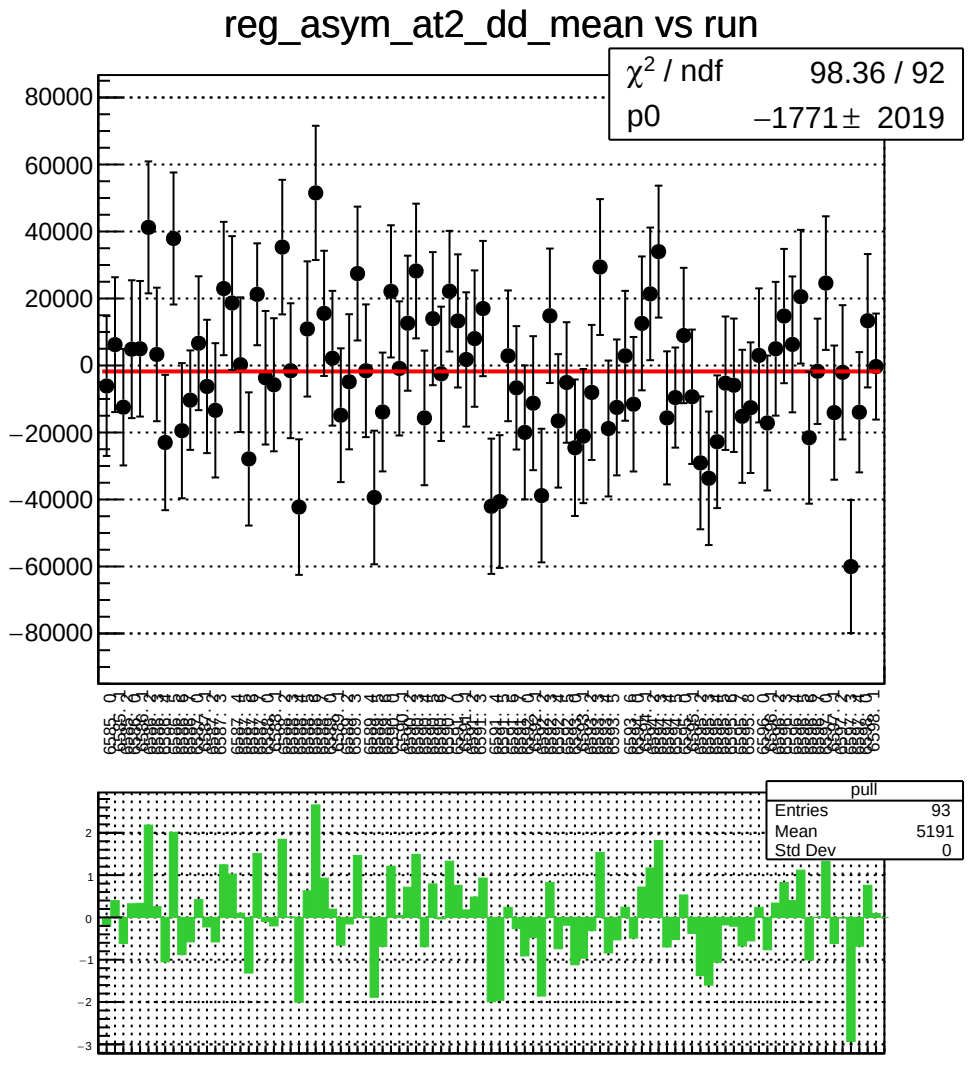

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.9 / 92
p0 −0.7746 ± 0.7626
pull
Entries 93
Mean −71.04
Std Dev 394.4
pull1D
Entries 93
Mean 0.0008646
Std Dev 0.9152

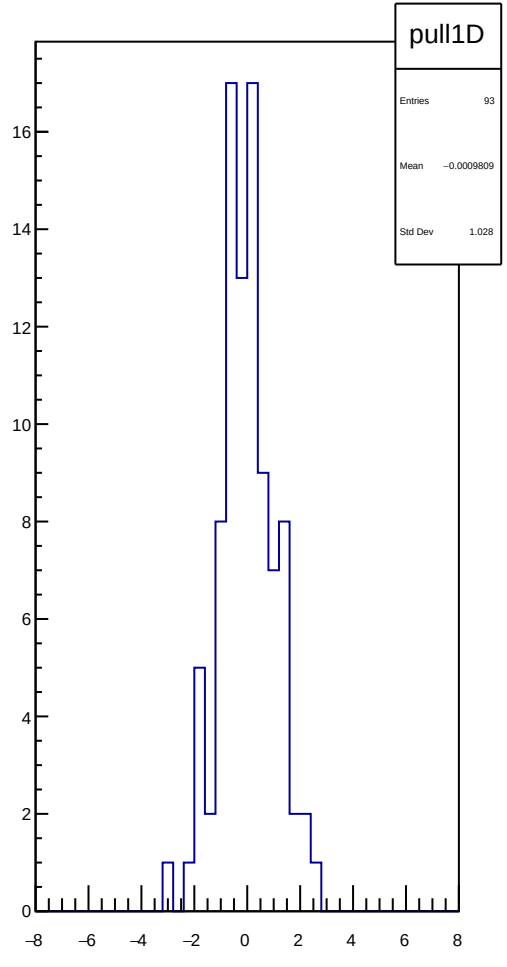

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.01e+04 / 92
p0 713.4 ± 0.5392
1000
900
800
700
600
500

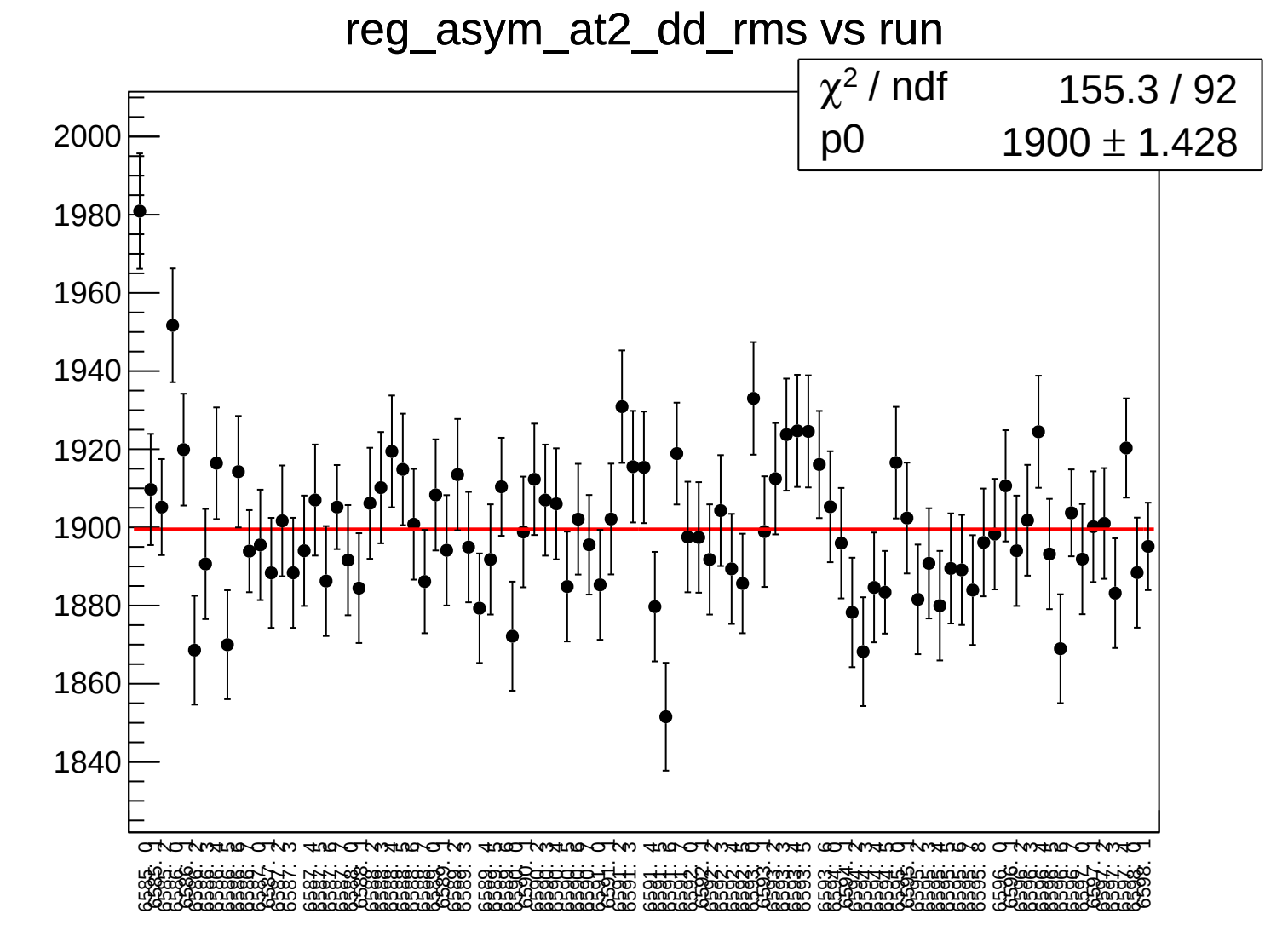

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 114.8 / 92
p0 −2.187e−13 ± 1.295e−13
pull
Entries 93
Mean 1.329e+04
Std Dev 0

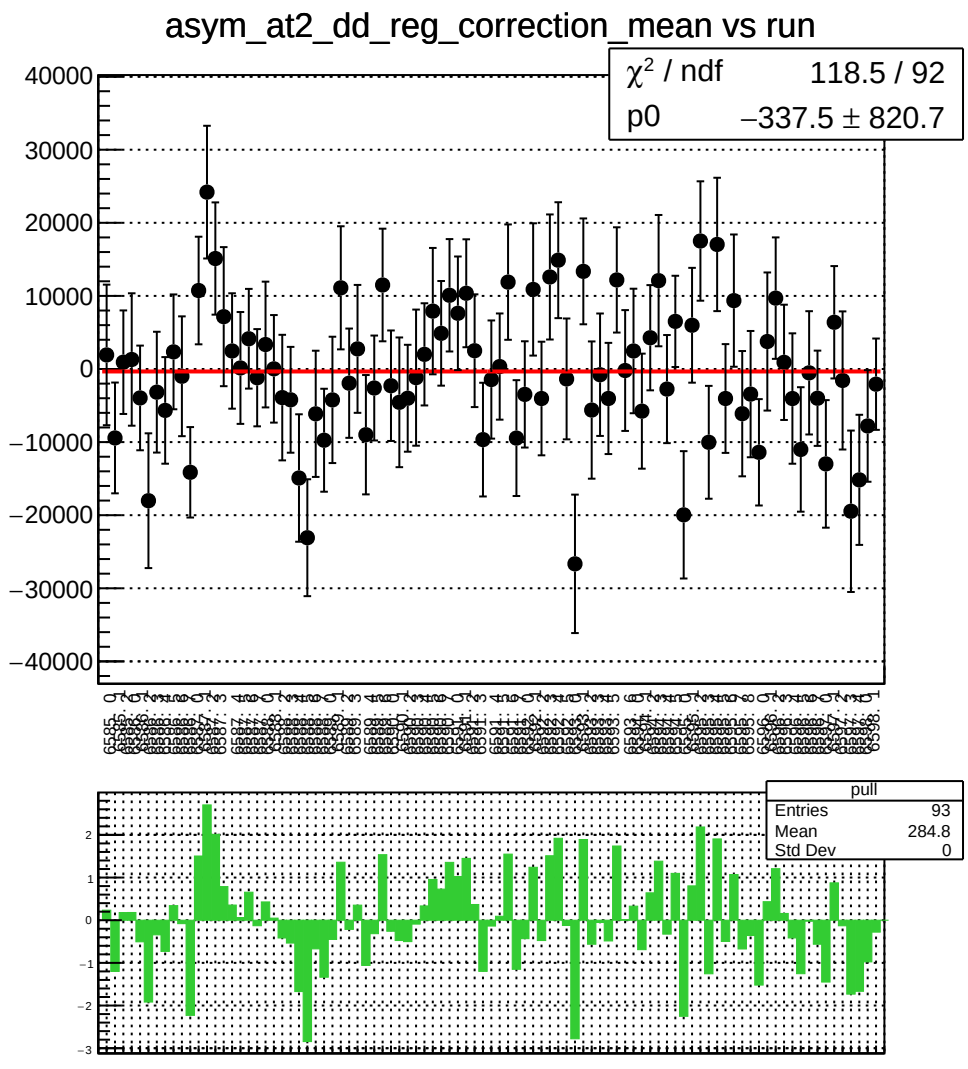

pull1D
Entries 93
Mean −0.0001725
Std Dev 1.111

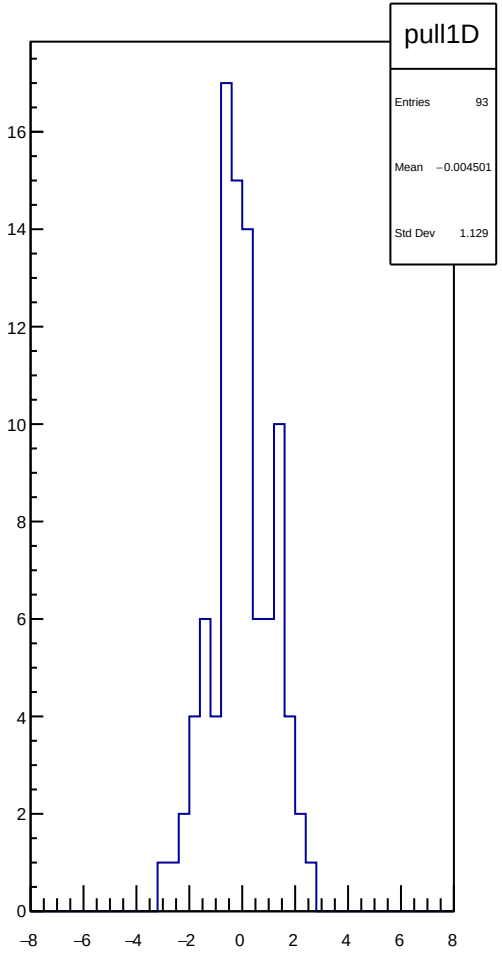

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.991e+05 / 92
p0 9.907e−11 ± 9.154e−14

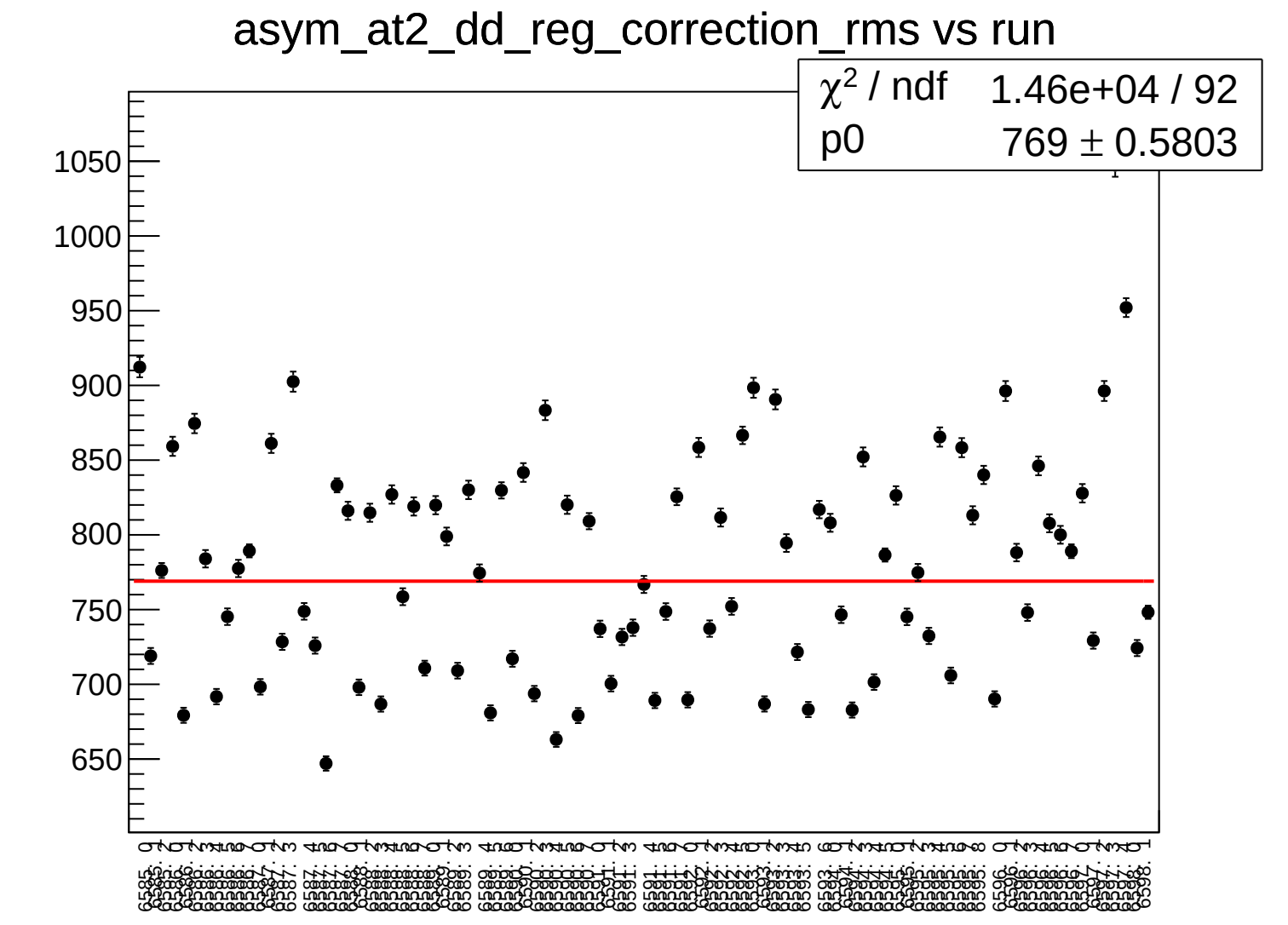

reg_asym_at2_dd_mean vs run
χ² / ndf 98.36 / 92
p0 −1771 ± 2019
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 5191
Std Dev 0
2
1
0
−1
−2
−3

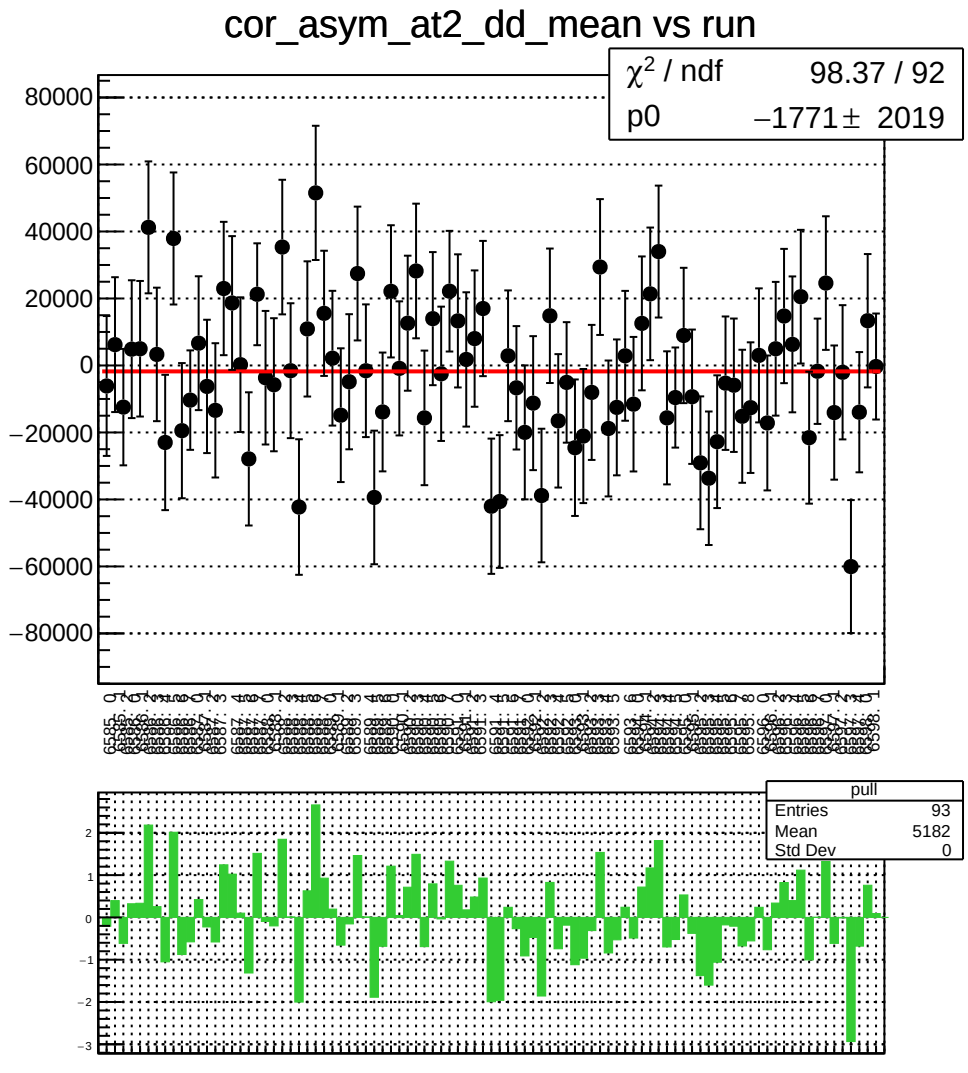

pull1D
Entries 93
Mean −0.0009809
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

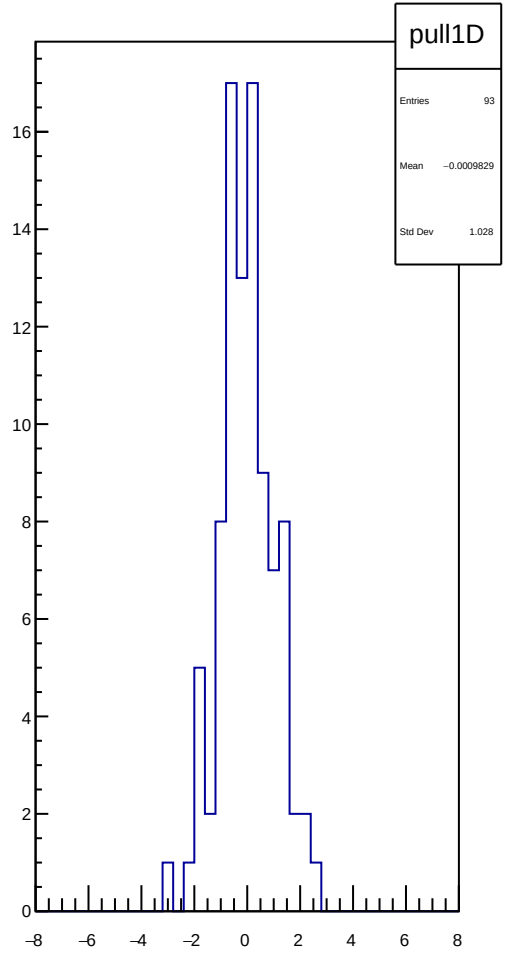

reg_asym_at2_dd_rms vs run
χ^2 / ndf 155.3 / 92
p0 1900 ± 1.428
2000
1980
1960
1940
1920
1900
1880
1860
1840

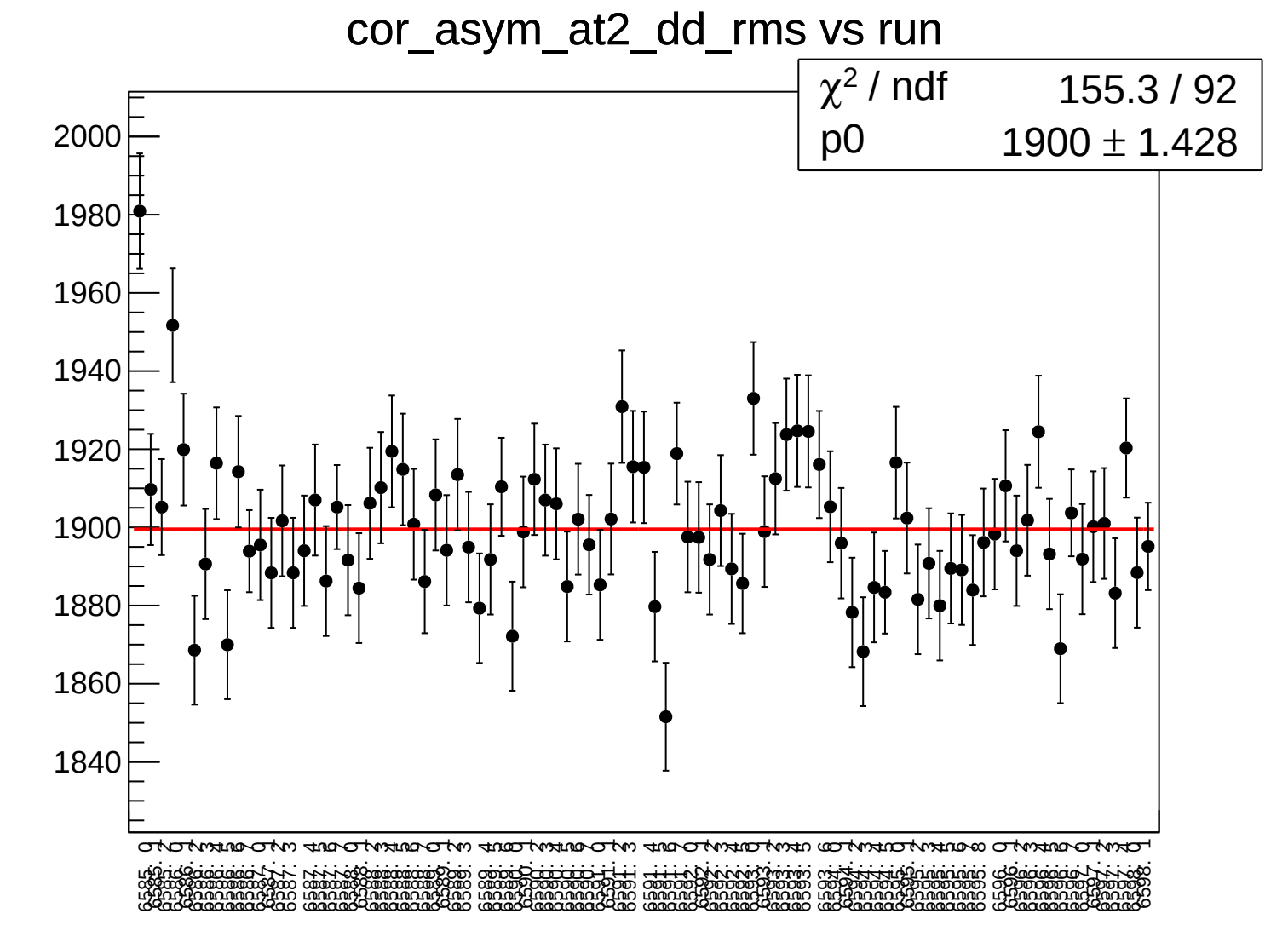

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 118.5 / 92
p0 −337.5 ± 820.7
pull
Entries 93
Mean 284.8
Std Dev 0

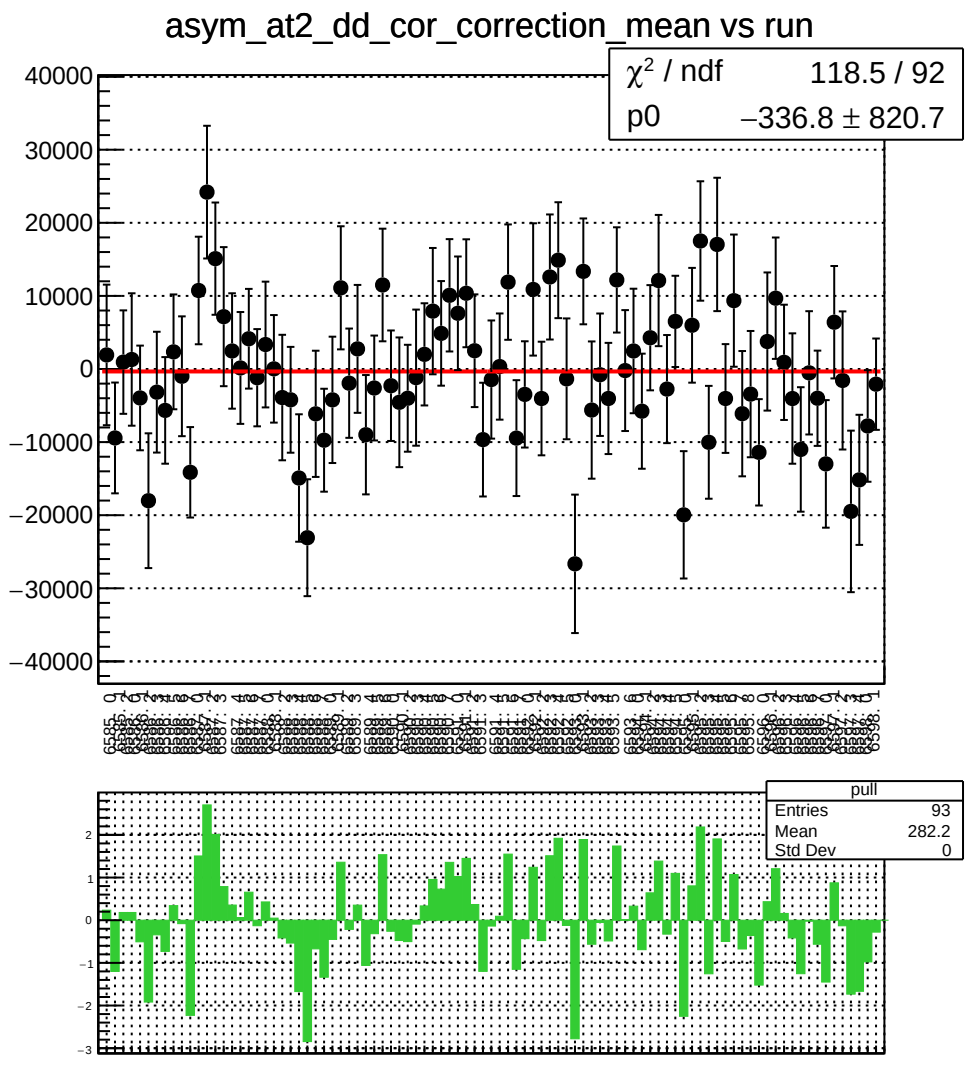

pull1D
Entries 93
Mean −0.004501
Std Dev 1.129

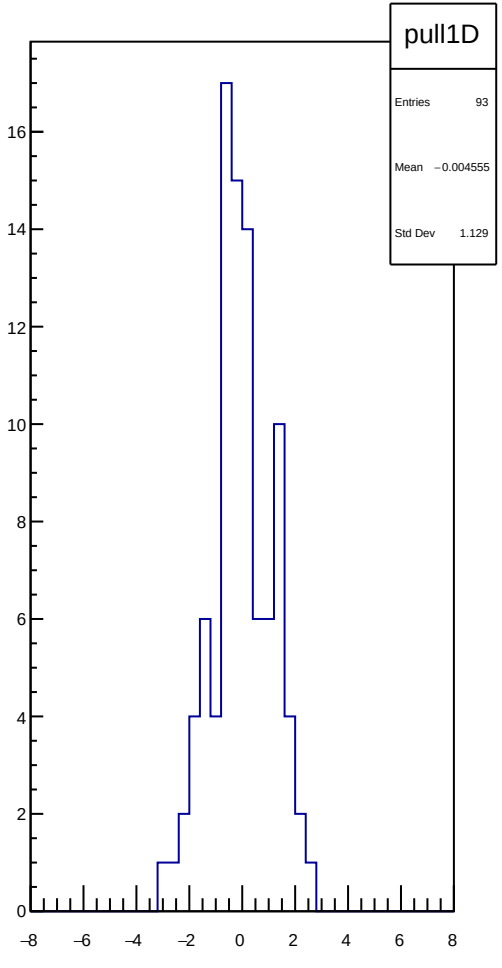

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 1.46e+04 / 92
p0 769 ± 0.5803
1050
1000
950
900
850
800
750
700
650

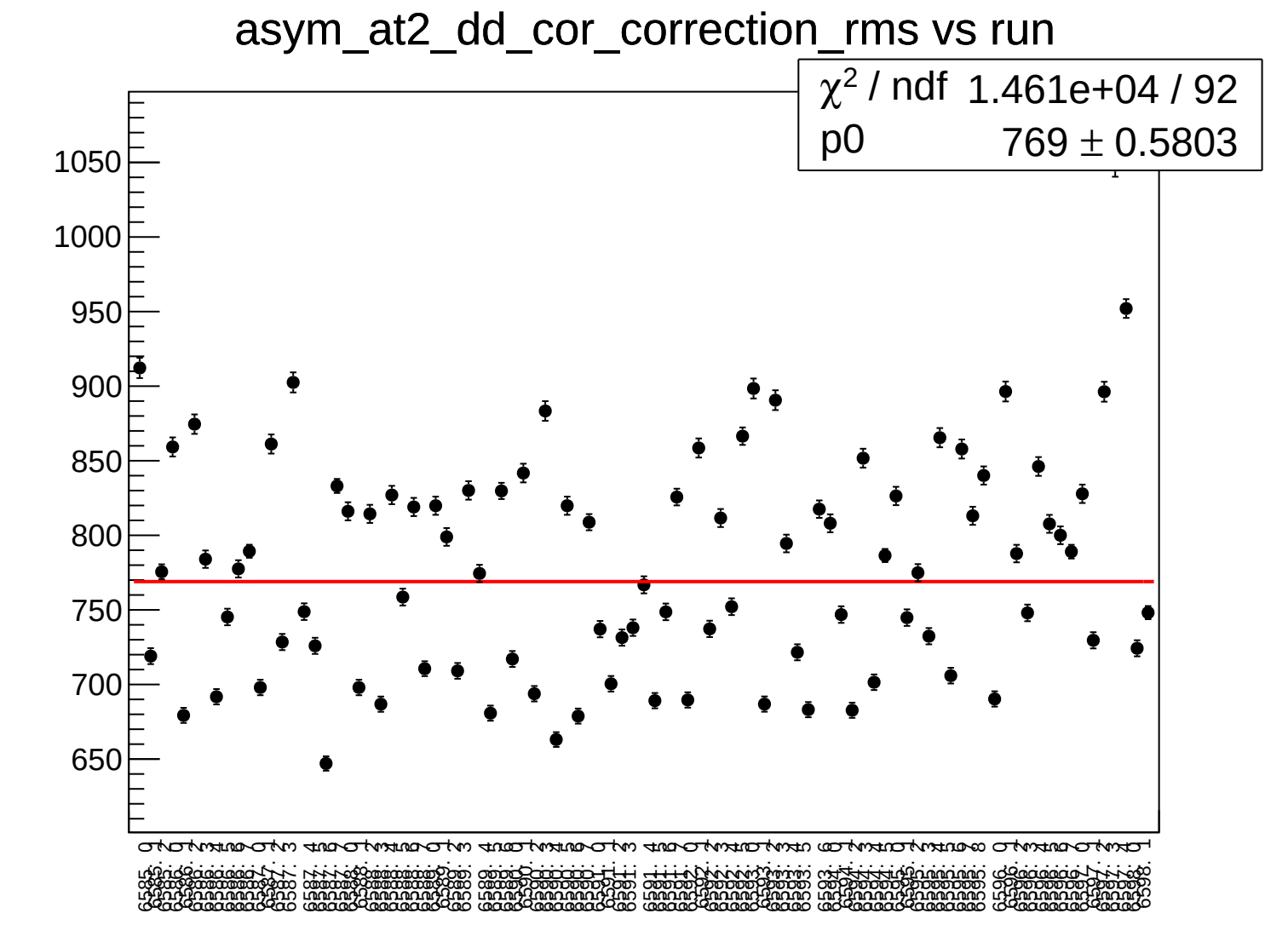

cor_asym_at2_dd_mean vs run
χ² / ndf 98.37 / 92
p0 −1771 ± 2019
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 5182
Std Dev 0
2
1
0
−1
−2
−3

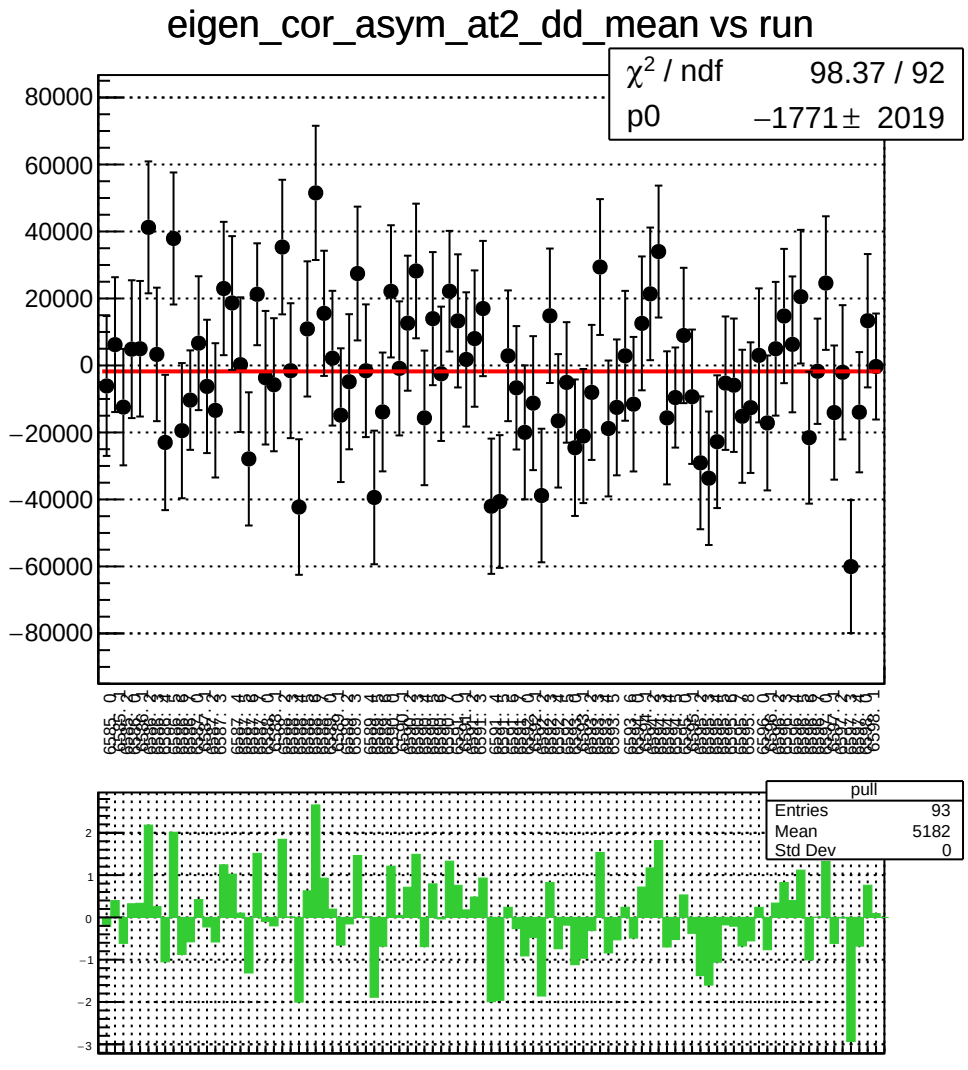

pull1D
Entries 93
Mean −0.0009829
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

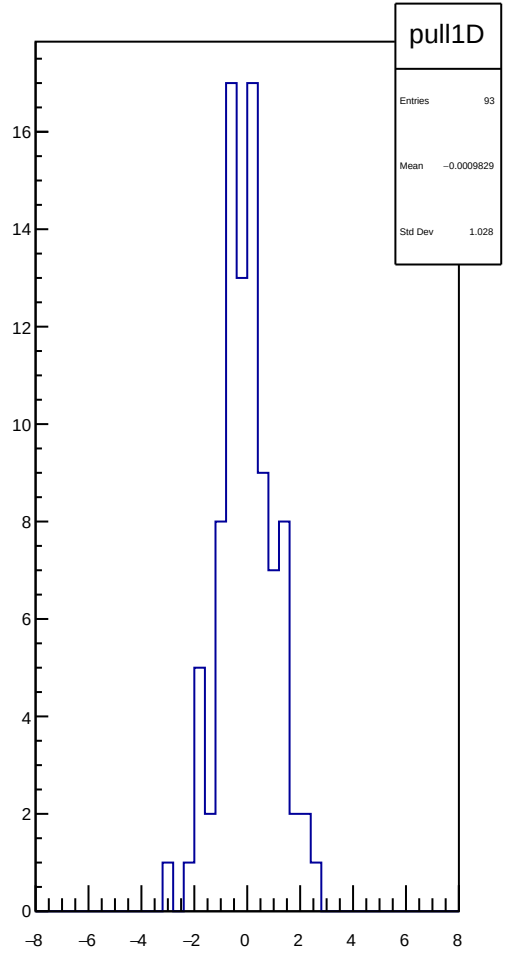

cor_asym_at2_dd_rms vs run
χ^2 / ndf 155.3 / 92
p0 1900 ± 1.428
2000
1980
1960
1940
1920
1900
1880
1860
1840

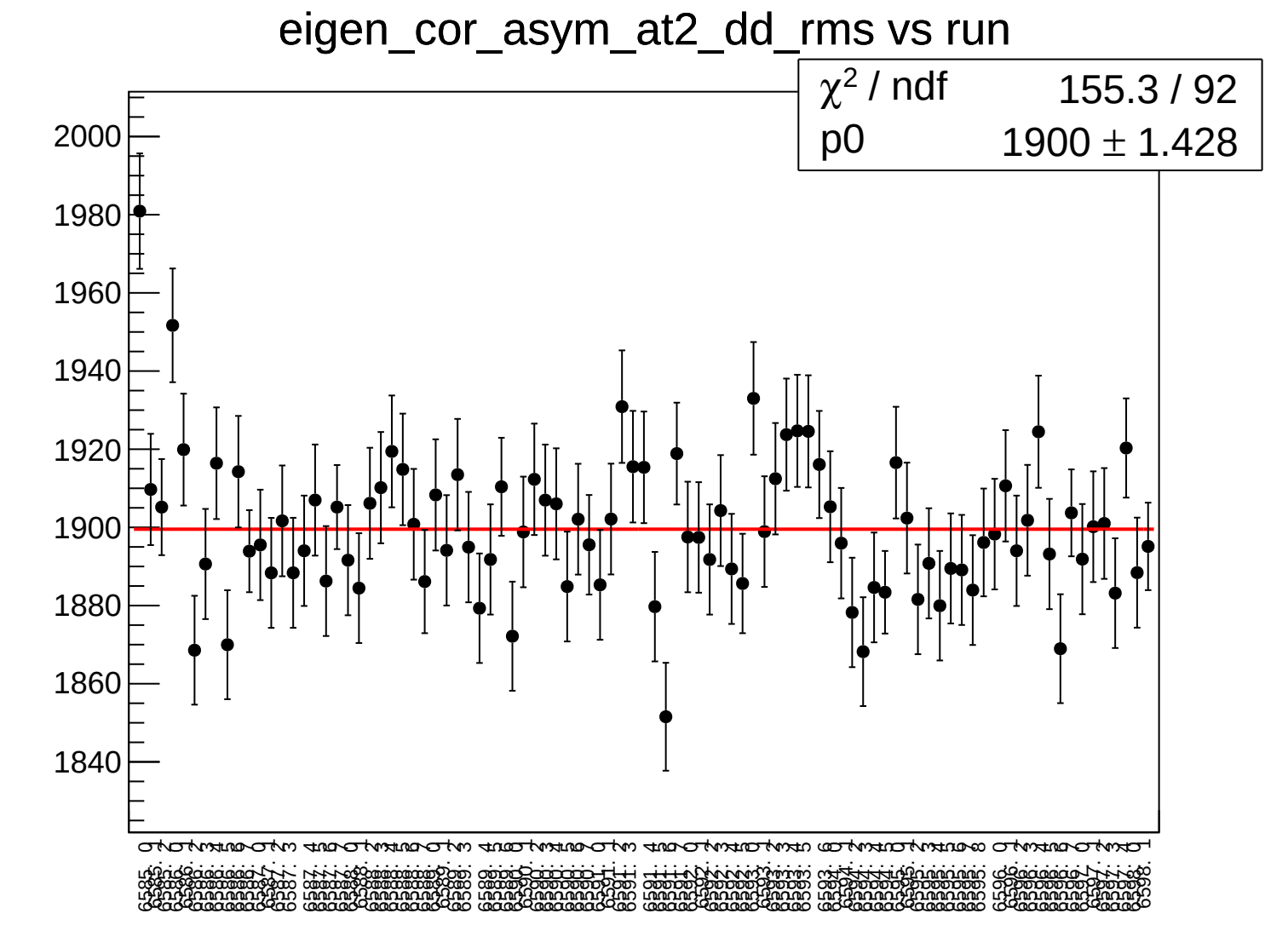

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 118.5 / 92
p0 −336.8 ± 820.7
pull
Entries 93
Mean 282.2
Std Dev 0

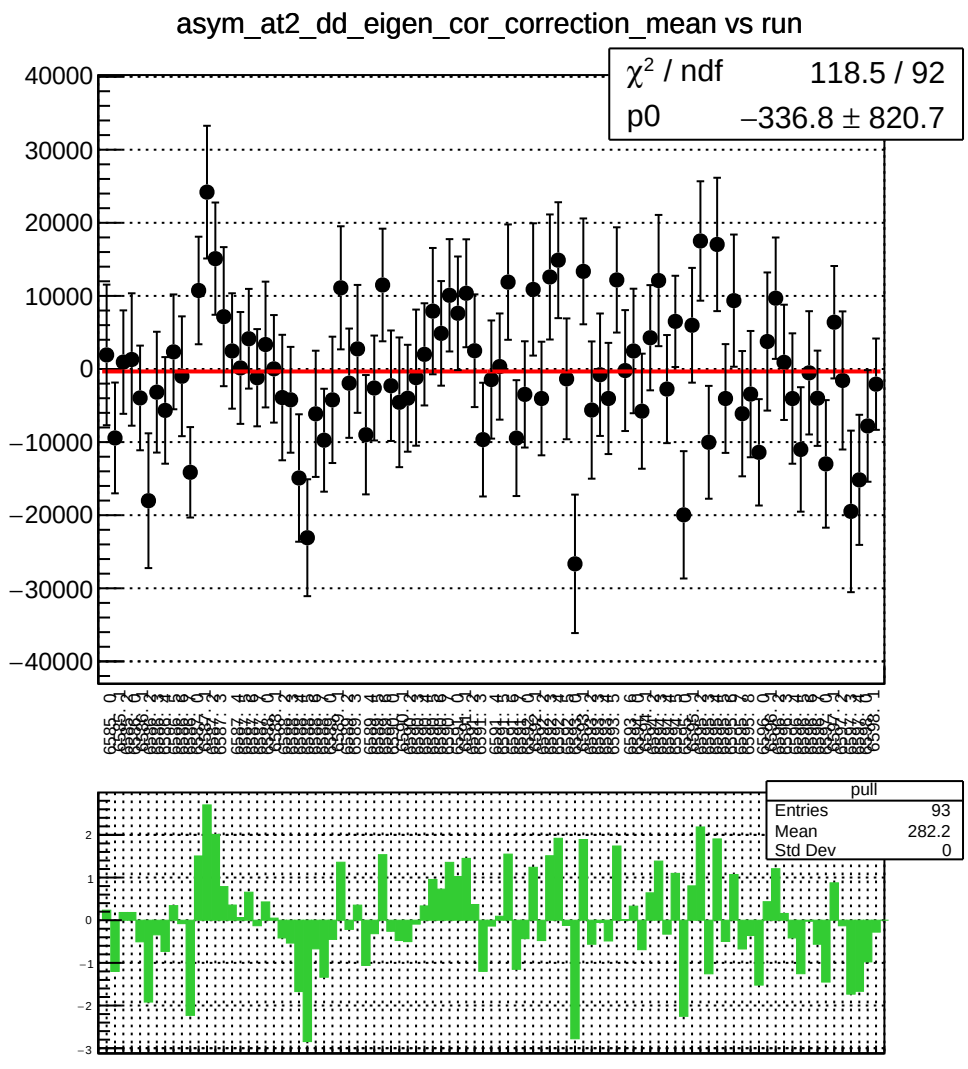

pull1D
Entries 93
Mean −0.004555
Std Dev 1.129

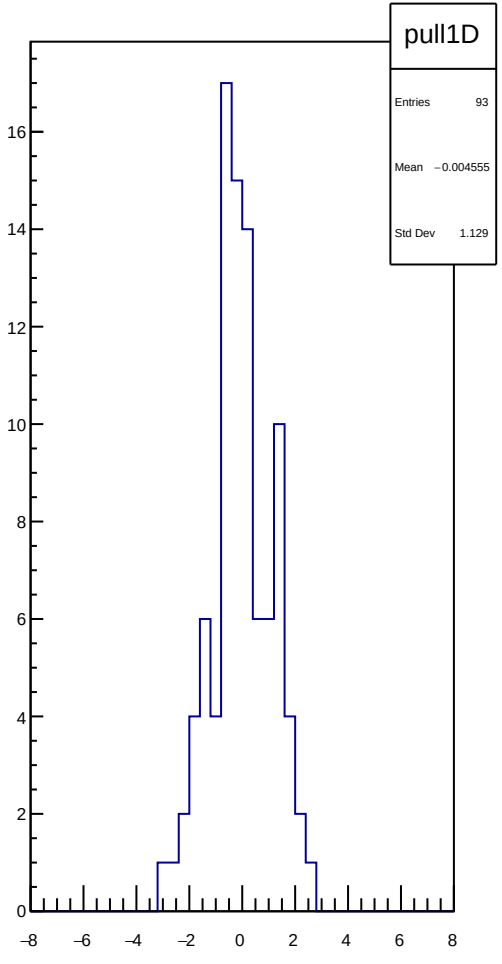

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 1.461e+04 / 92
p0 769 ± 0.5803
1050
1000
950
900
850
800
750
700
650

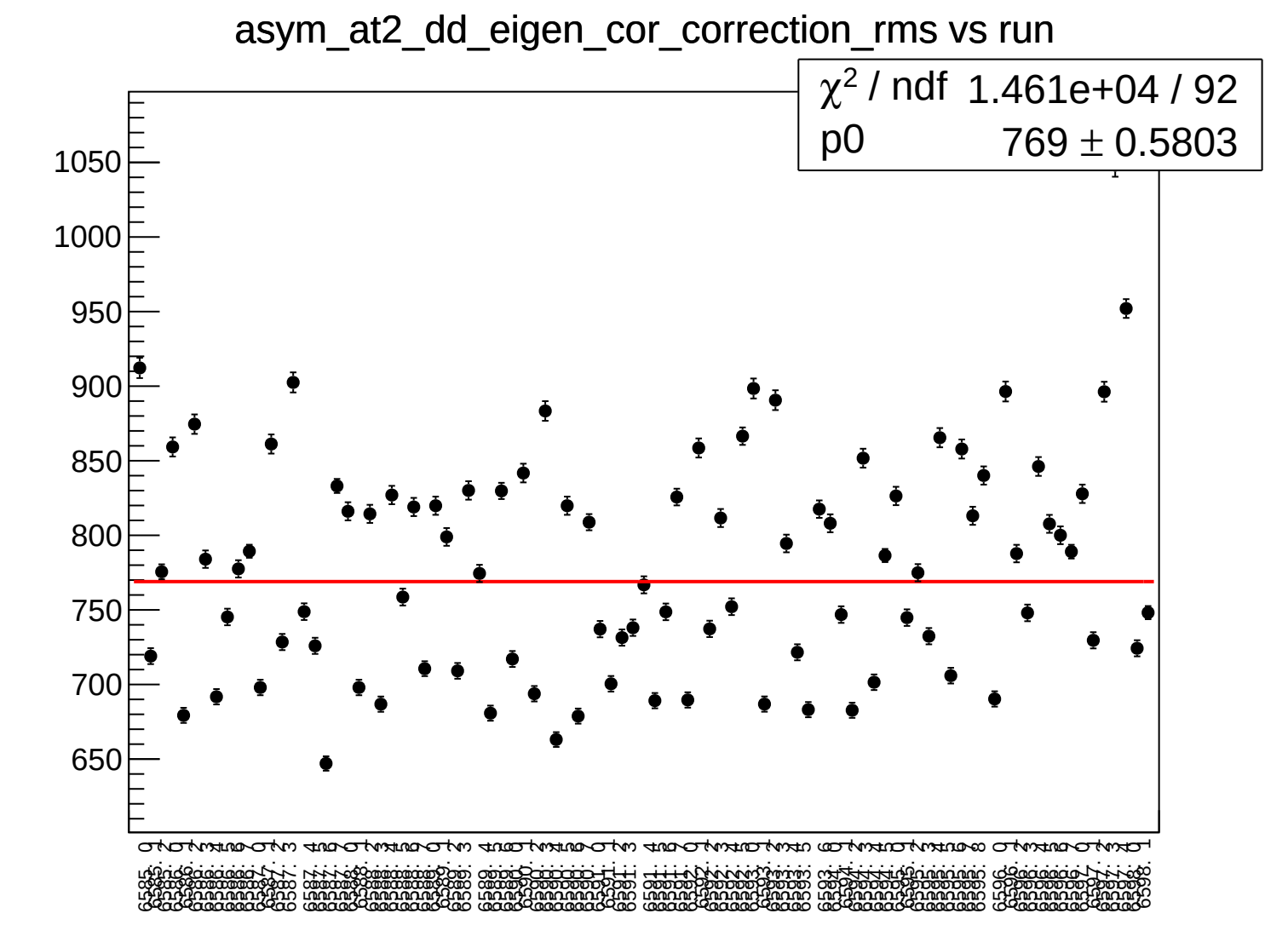

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 98.37 / 92
p0 −1771 ± 2019
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 5182
Std Dev 0
2
1
0
−1
−2
−3

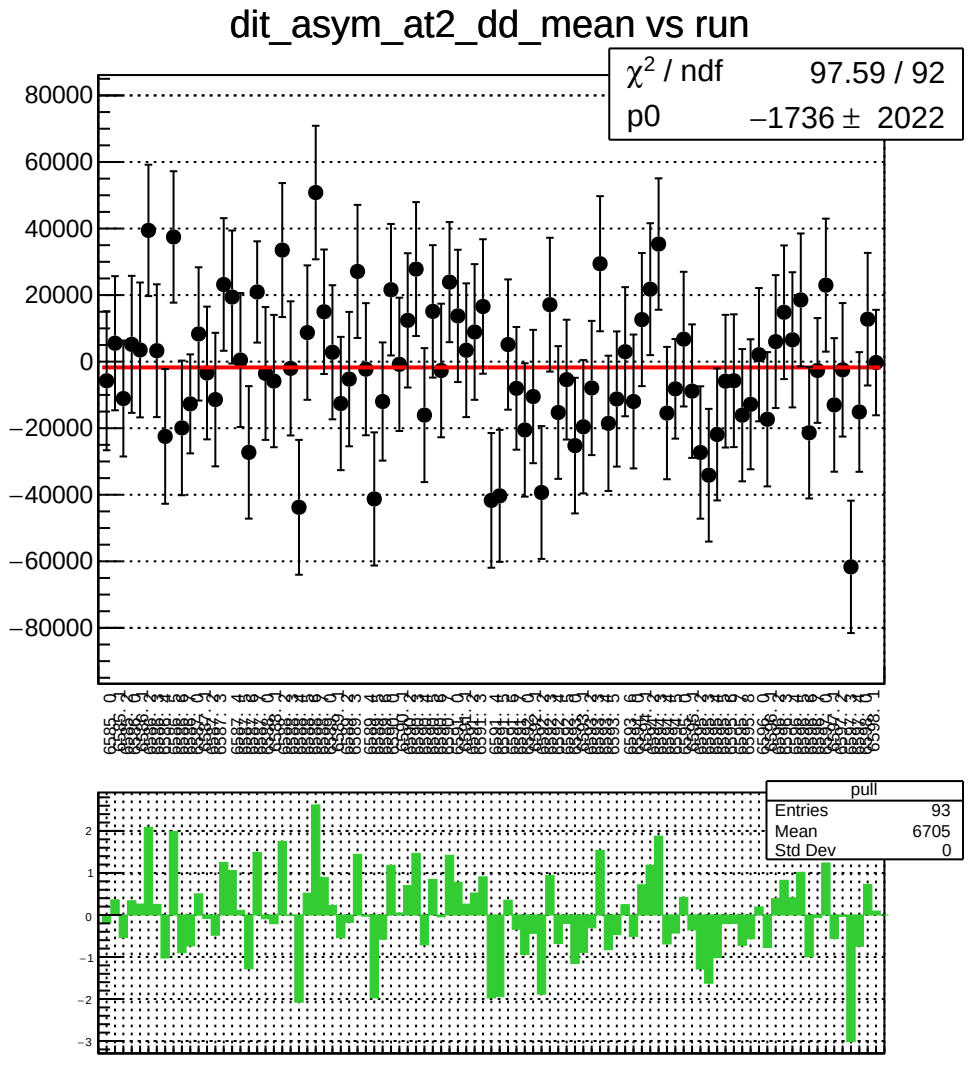

pull1D
Entries 93
Mean −0.0009829
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

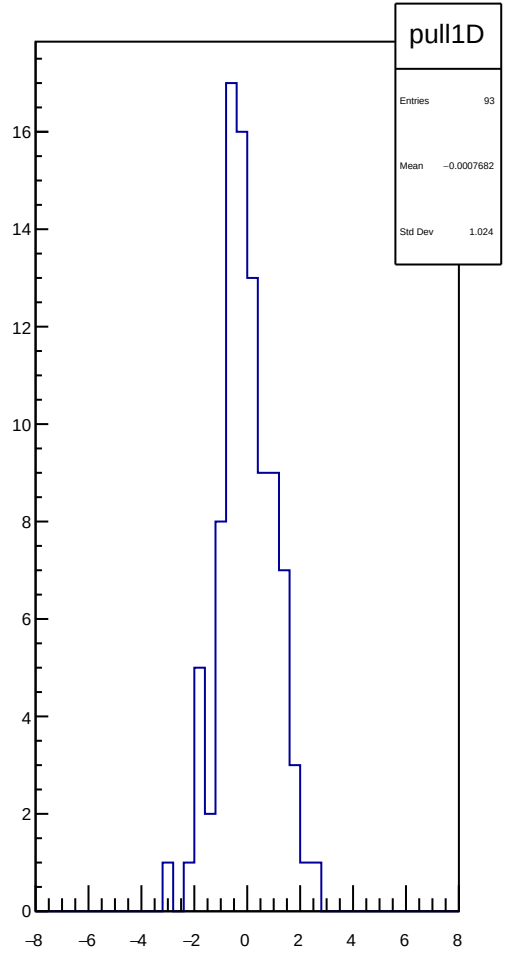

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 155.3 / 92
p0 1900 ± 1.428
2000
1980
1960
1940
1920
1900
1880
1860
1840

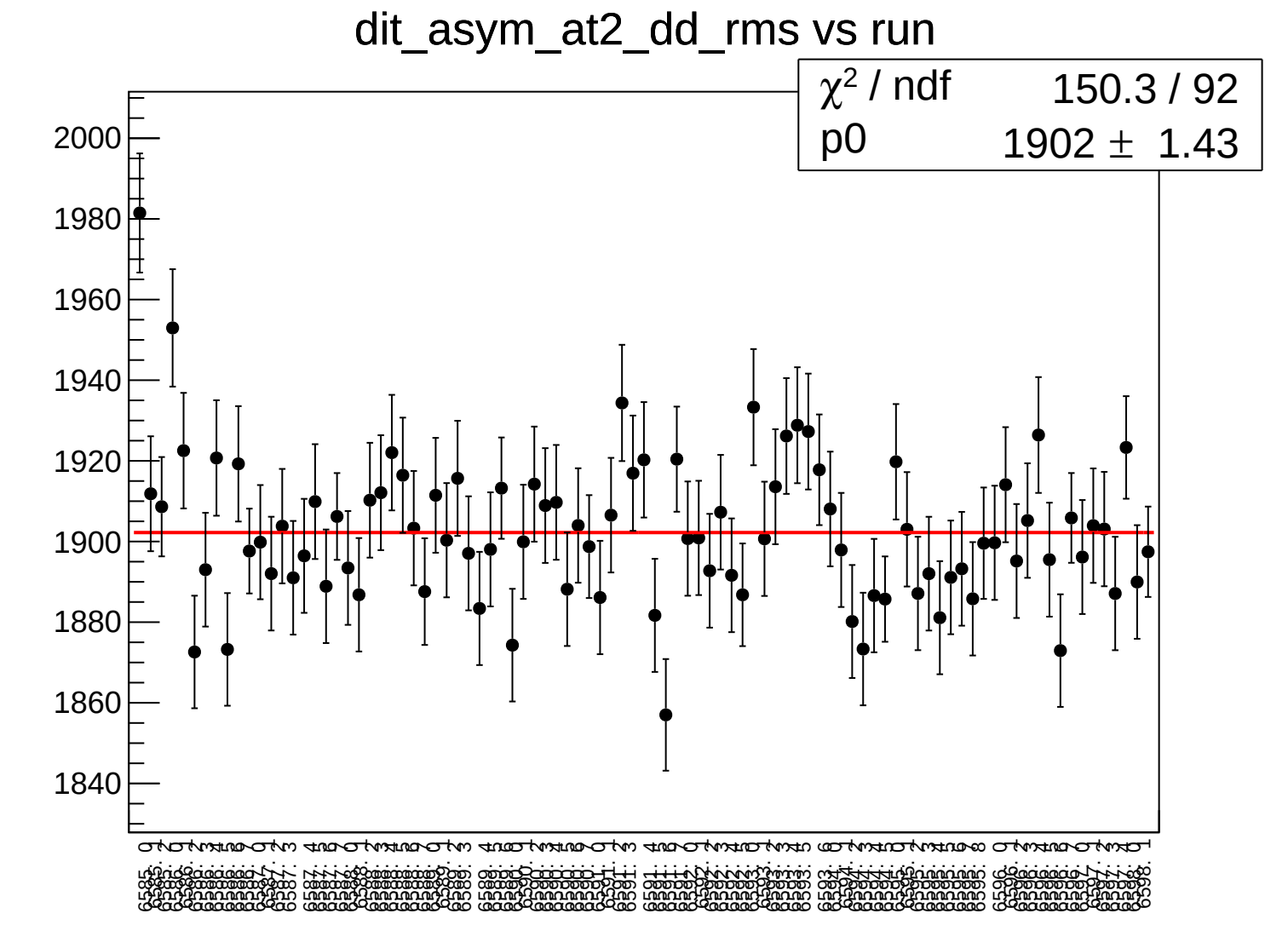

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 118.5 / 92
p0 −336.8 ± 820.7
pull
Entries 93
Mean 282.2
Std Dev 0

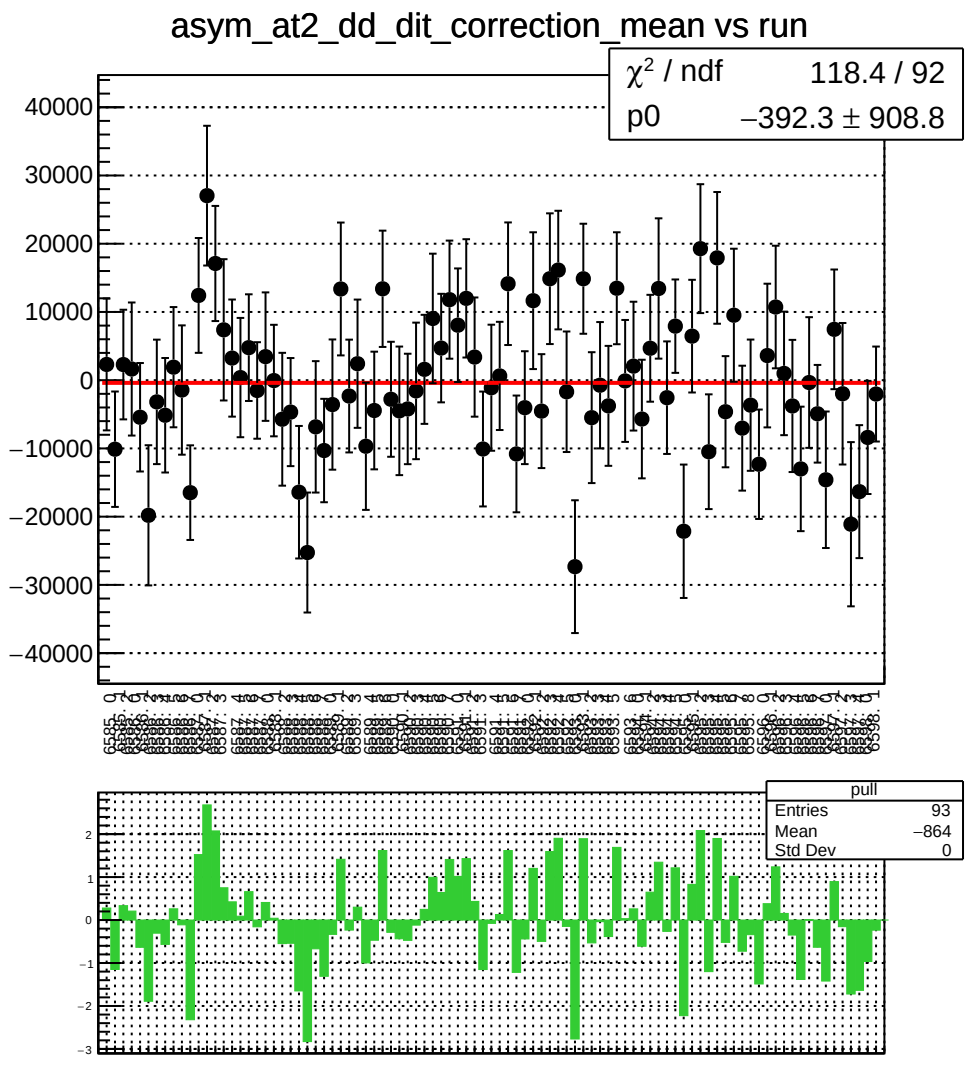

pull1D
Entries 93
Mean −0.004555
Std Dev 1.129

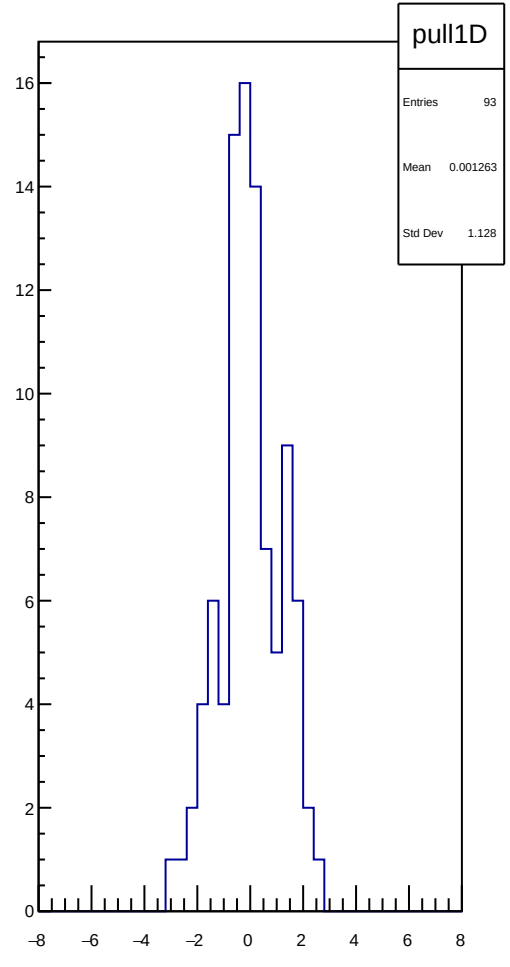

asym_at2_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 1.461e+04 / 92
p0 769 ± 0.5803
1050
1000
950
900
850
800
750
700
650

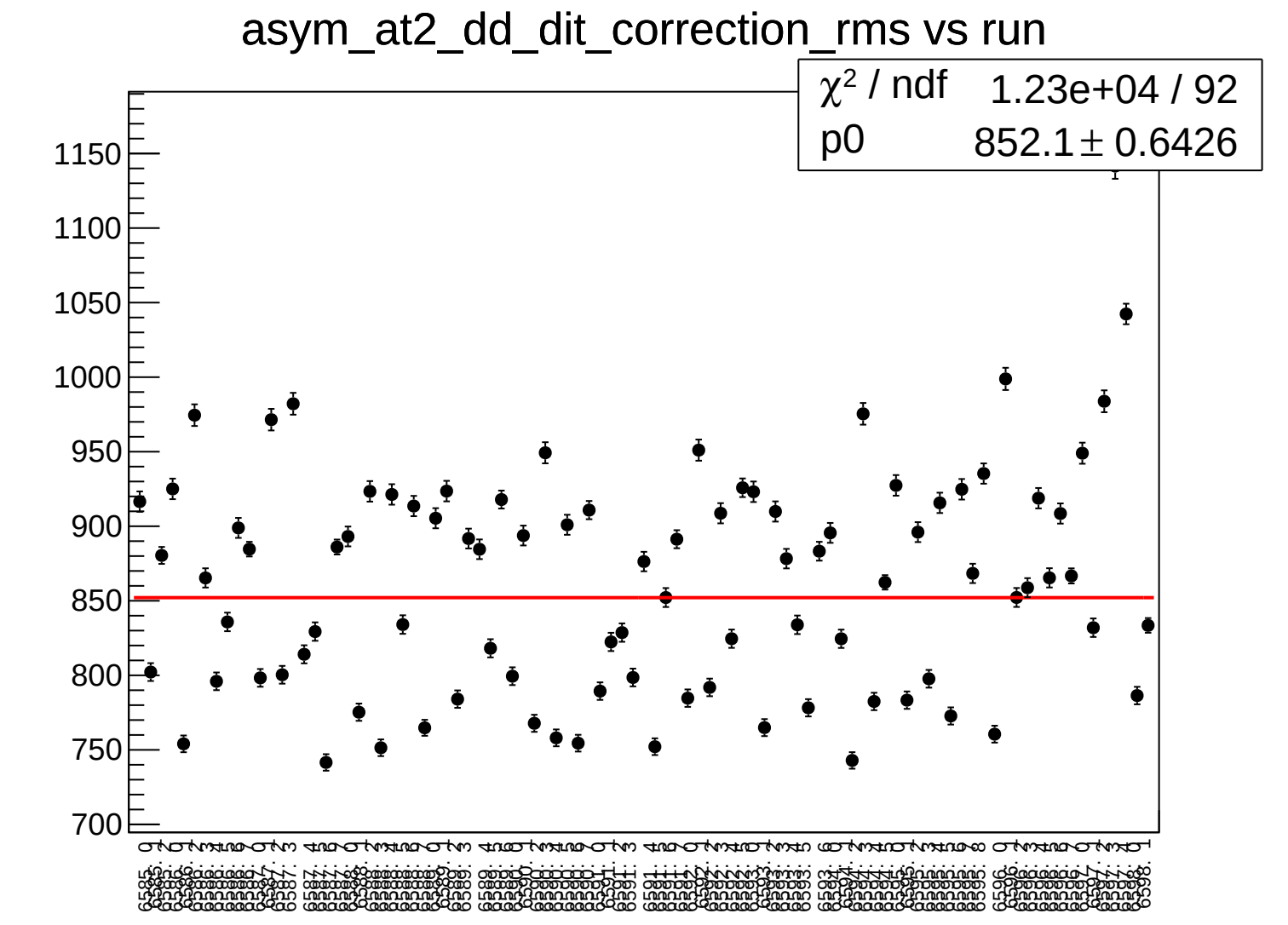

dit_asym_at2_dd_mean vs run
χ² / ndf 97.59 / 92
p0 −1736 ± 2022
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 6705
Std Dev 0
2
1
0
−1
−2
−3

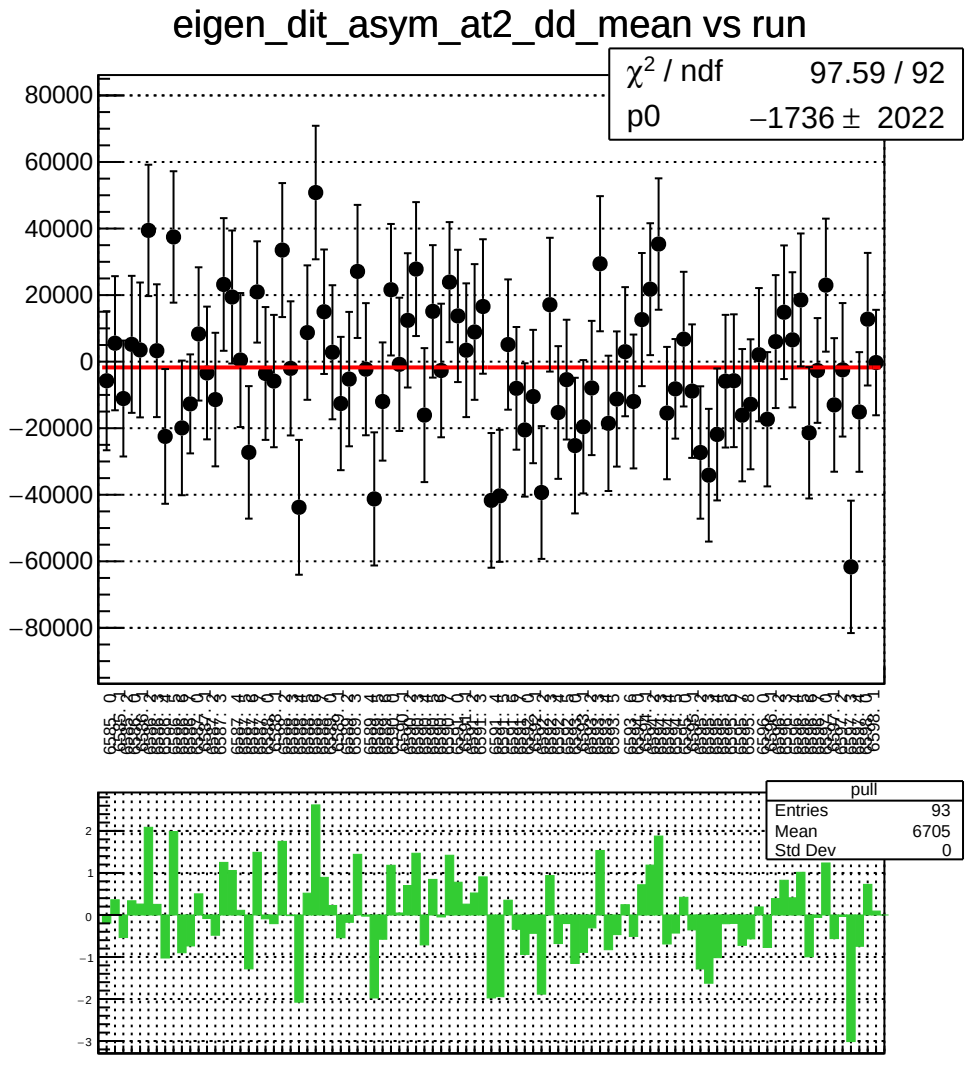

pull1D
Entries 93
Mean −0.0007682
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

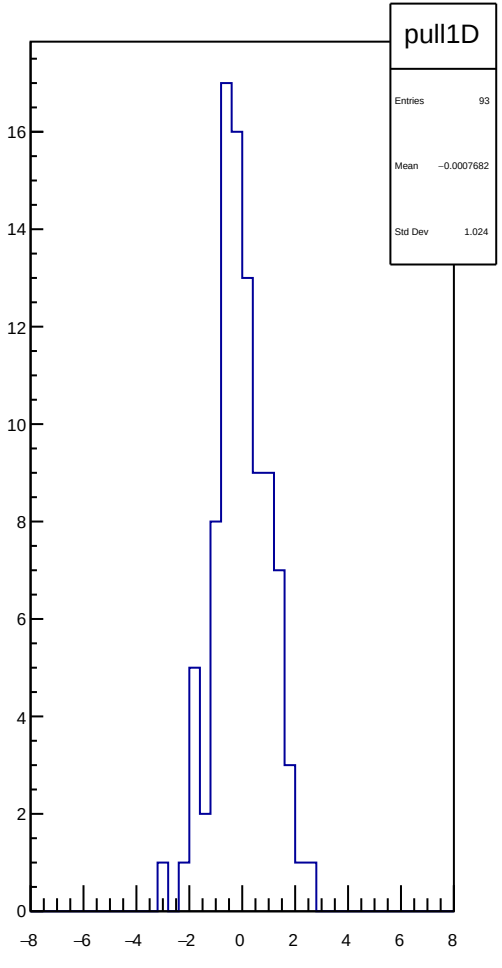

dit_asym_at2_dd_rms vs run
χ² / ndf 150.3 / 92
p0 1902 ± 1.43
2000
1980
1960
1940
1920
1900
1880
1860
1840

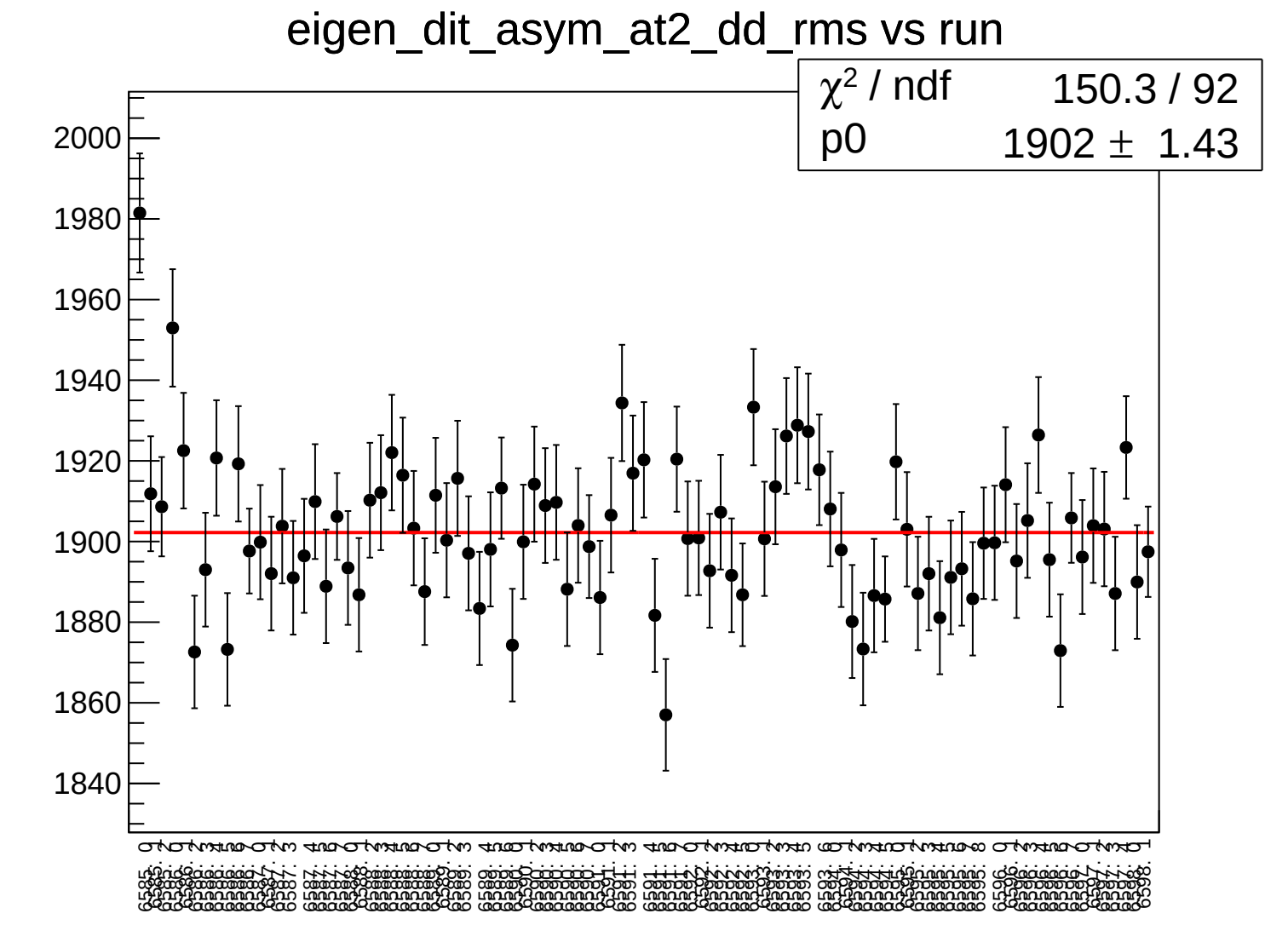

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 118.4 / 92
p0 −392.3 ± 908.8
pull
Entries 93
Mean −864
Std Dev 0

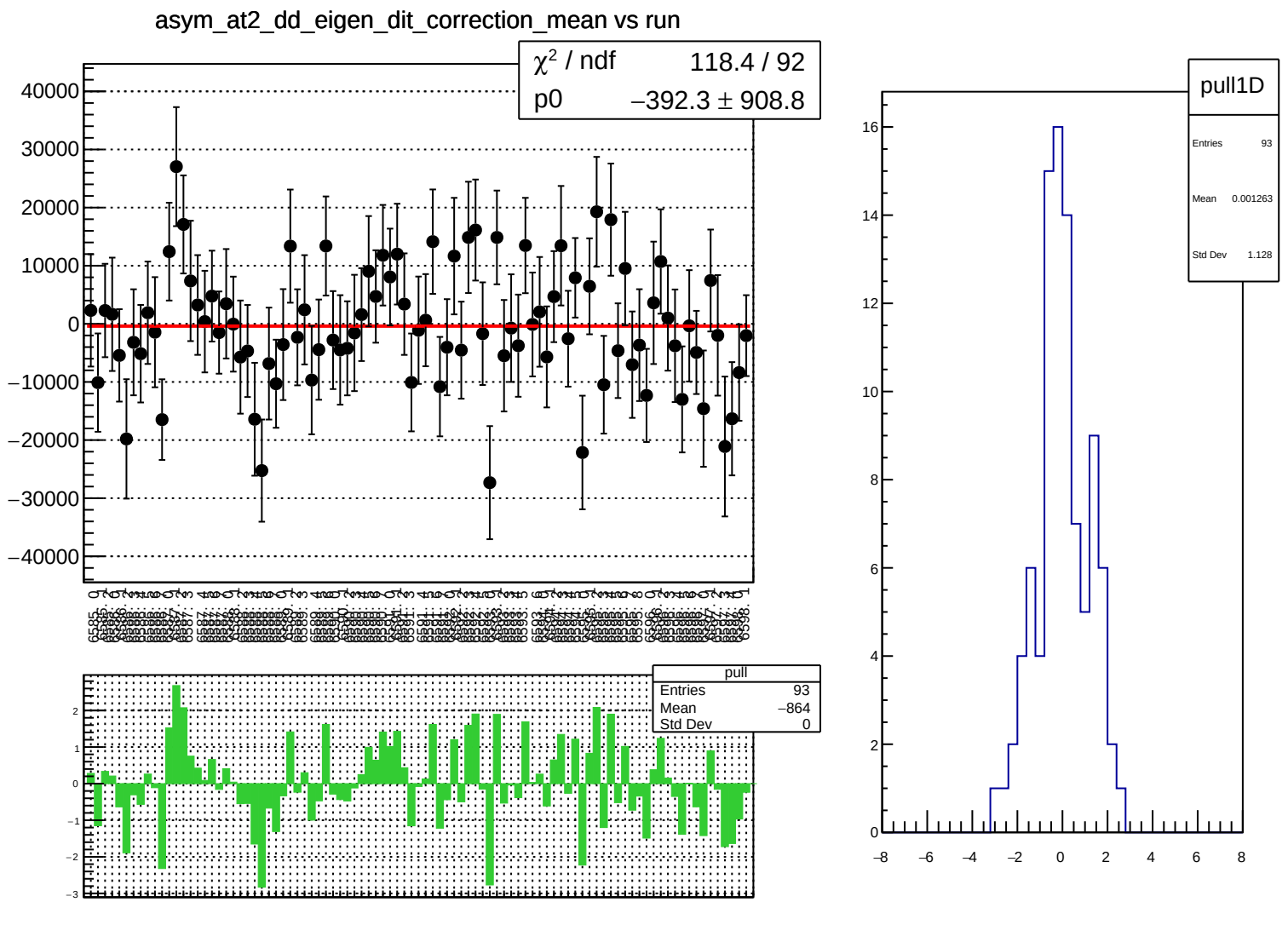

pull1D
Entries 93
Mean 0.001263
Std Dev 1.128

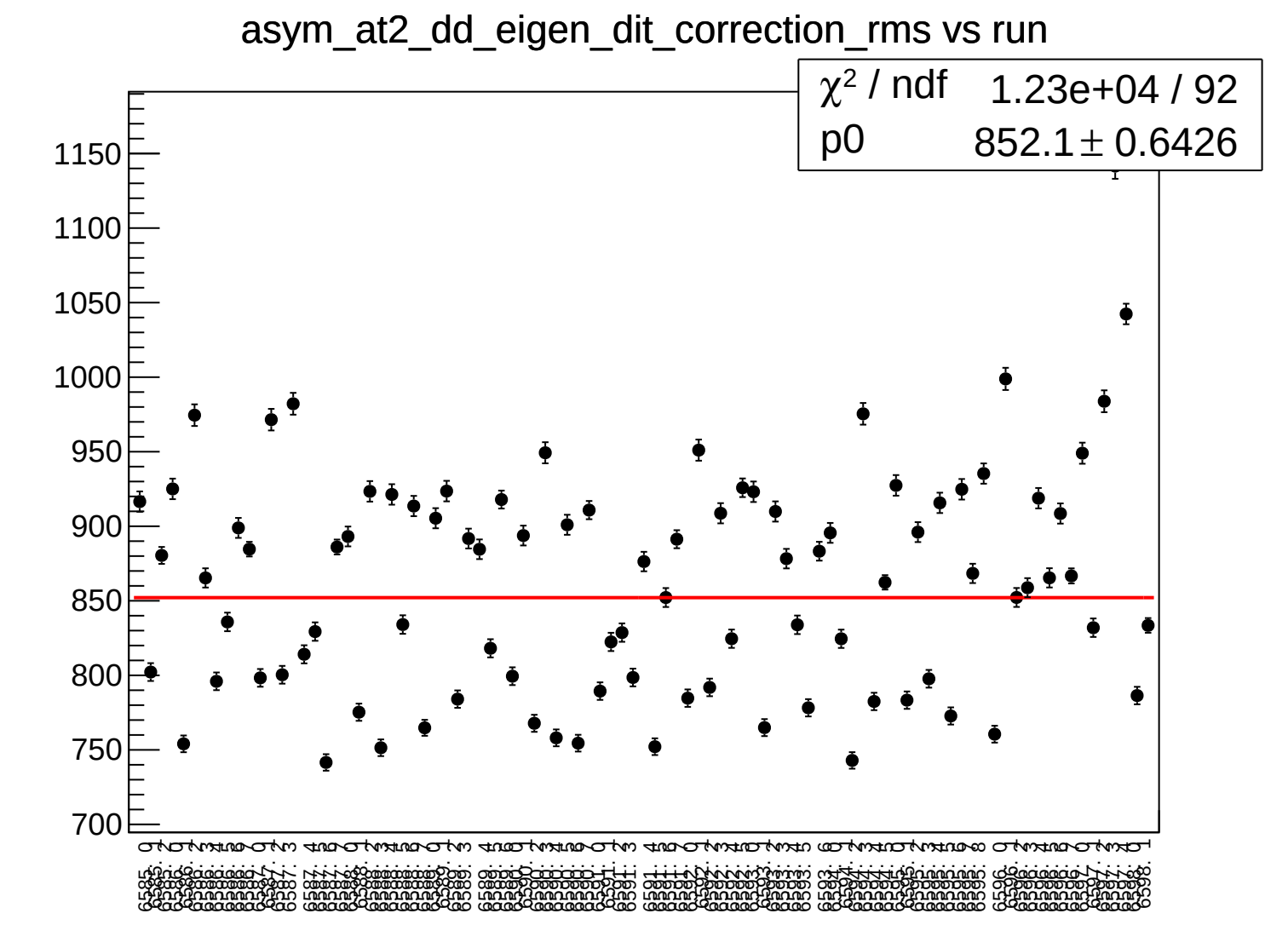

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 1.23e+04 / 92
p0 852.1 ± 0.6426
1150
1100
1050
1000
950
900
850
800
750
700

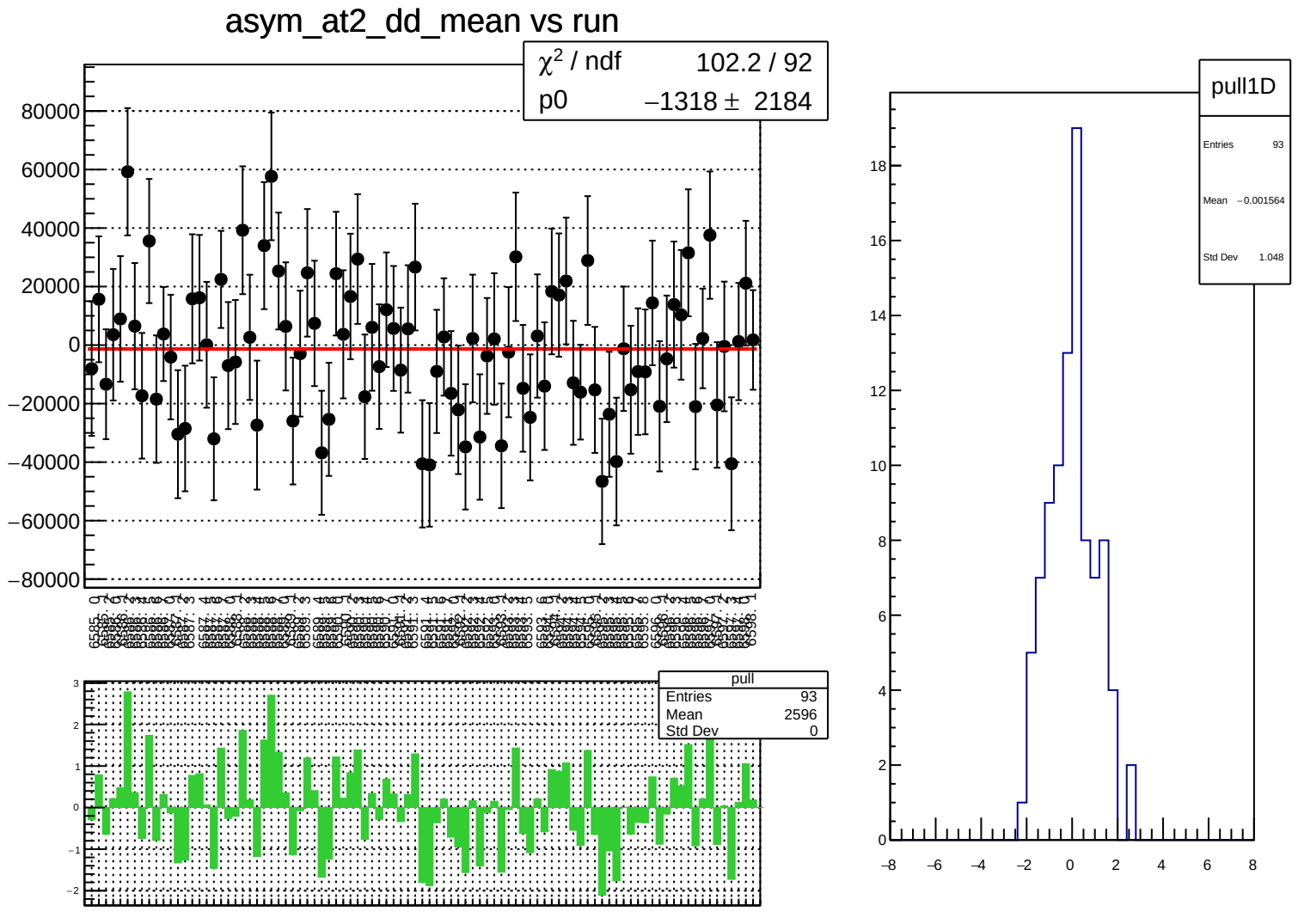

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 97.59 / 92
p0 −1736 ± 2022
pull
Entries 93
Mean 6705
Std Dev 0

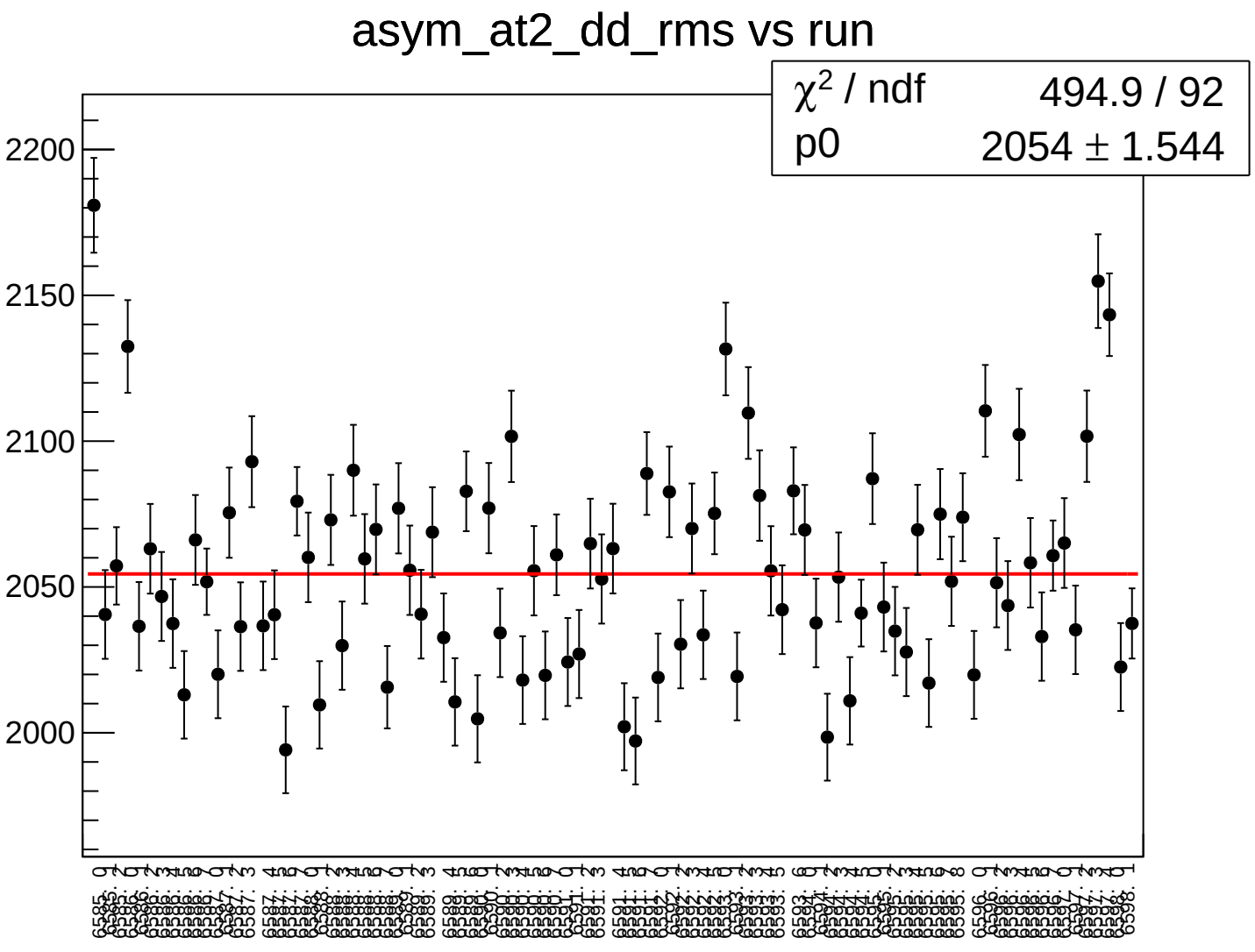

pull1D
Entries 93
Mean −0.0007682
Std Dev 1.024

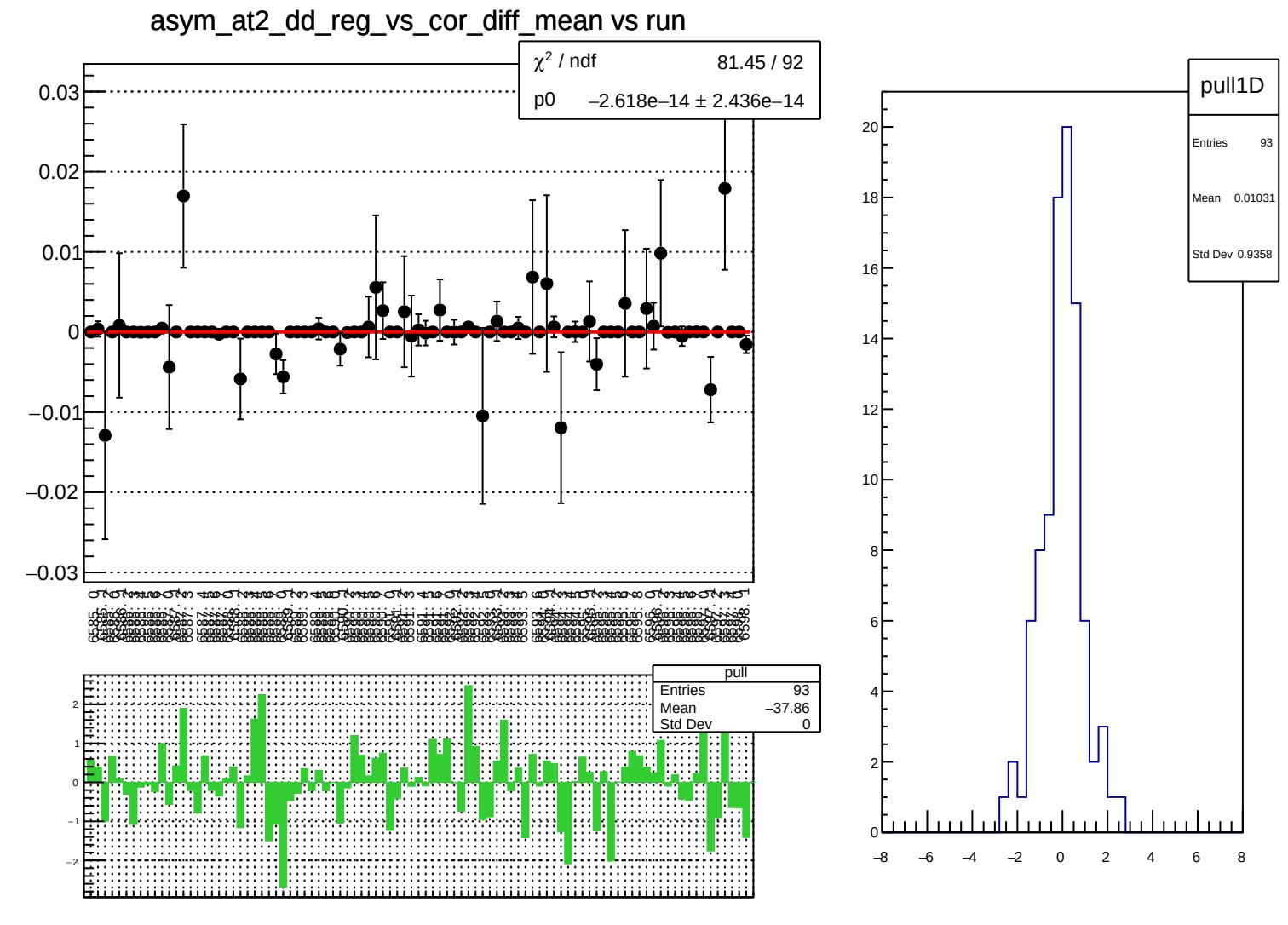

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 150.3 / 92
p0 1902 ± 1.43
2000
1980
1960
1940
1920
1900
1880
1860
1840

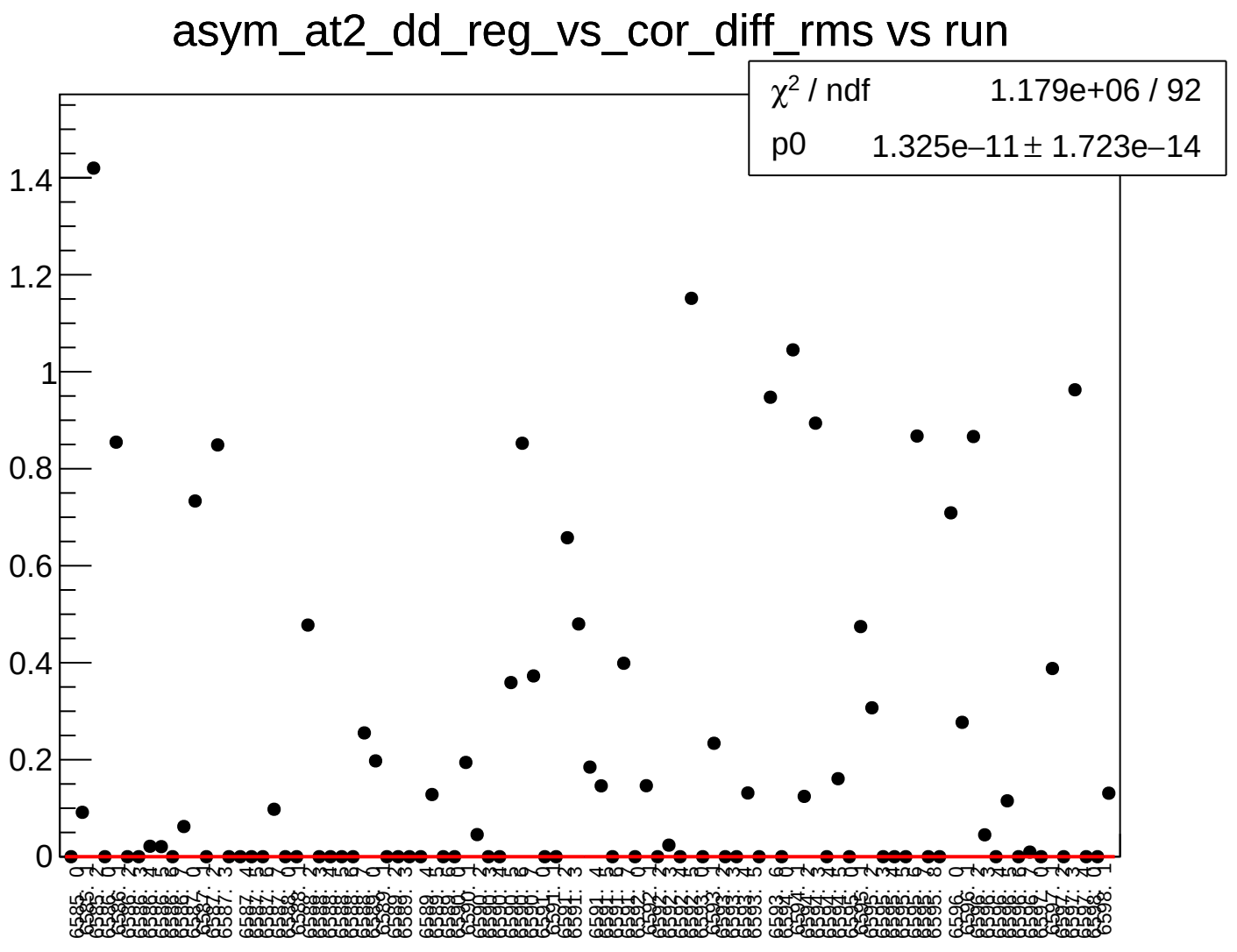

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 118.4 / 92
p0 −392.3 ± 908.8
pull
Entries 93
Mean −864
Std Dev 0
pull1D
Entries 93
Mean 0.001263
Std Dev 1.128

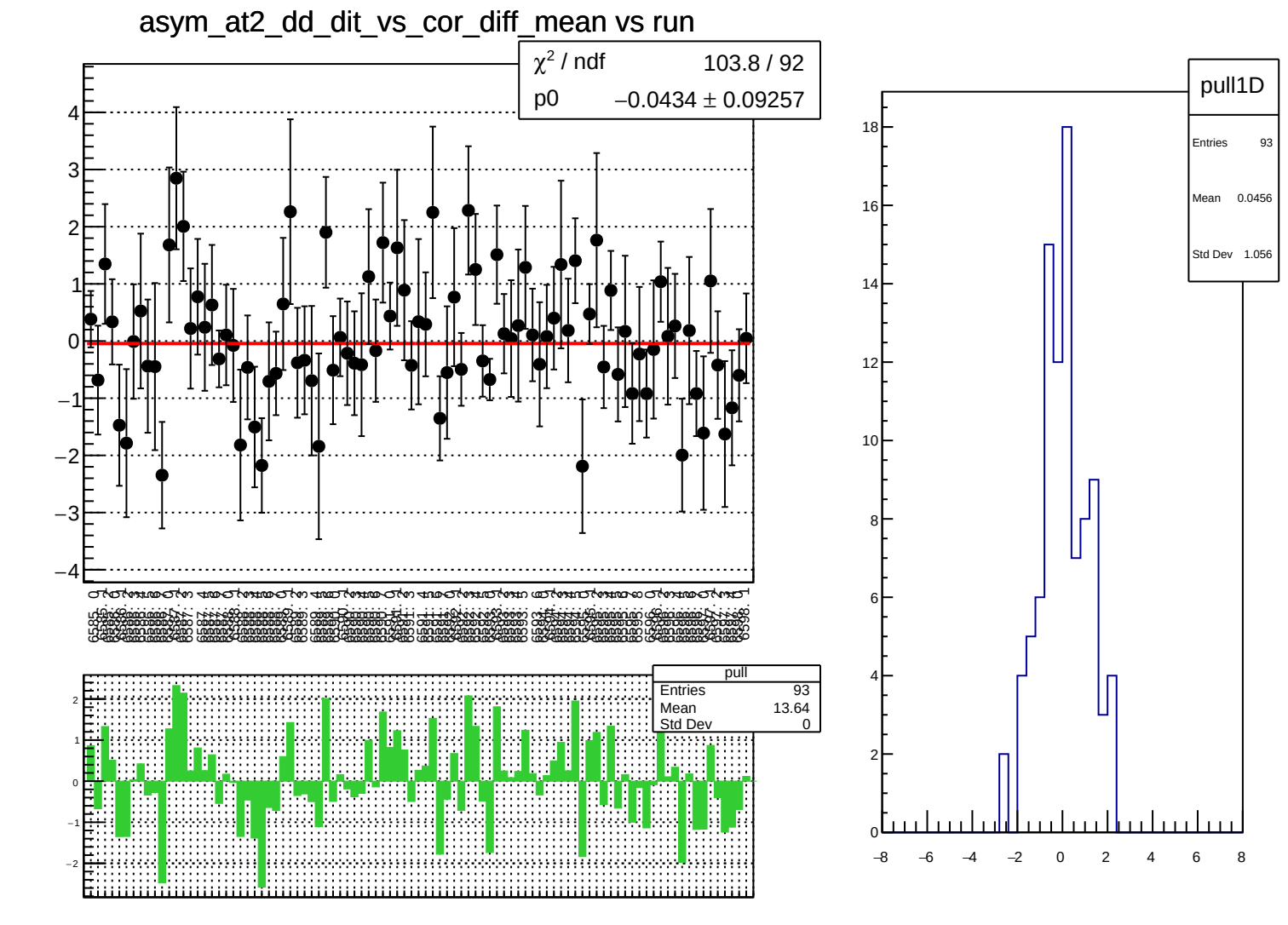

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.23e+04 / 92
p0 852.1 ± 0.6426
1150
1100
1050
1000
950
900
850
800
750
700

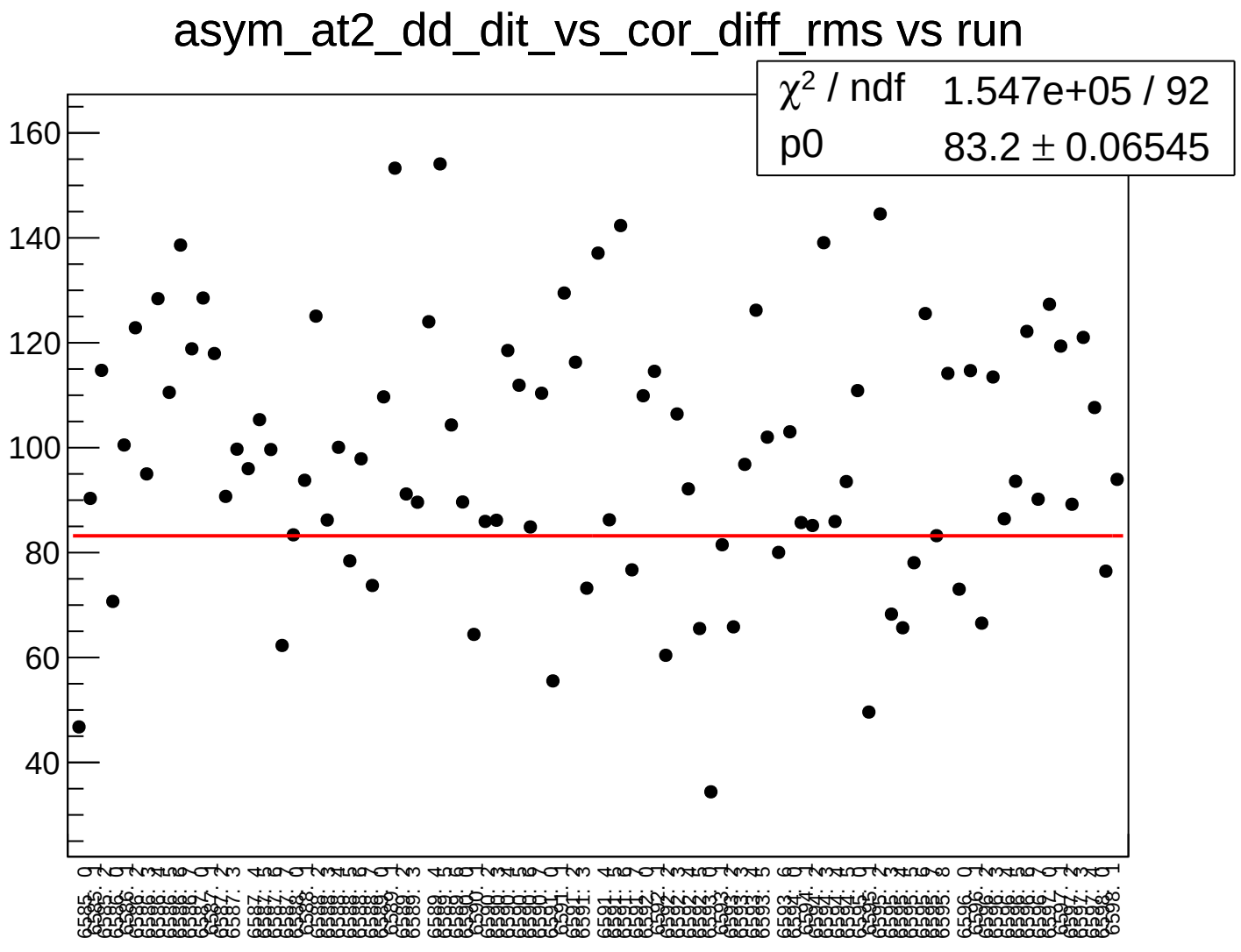

asym_at2_dd_mean vs run
χ² / ndf 102.2 / 92
p0 −1318 ± 2184
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 2596
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001564
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

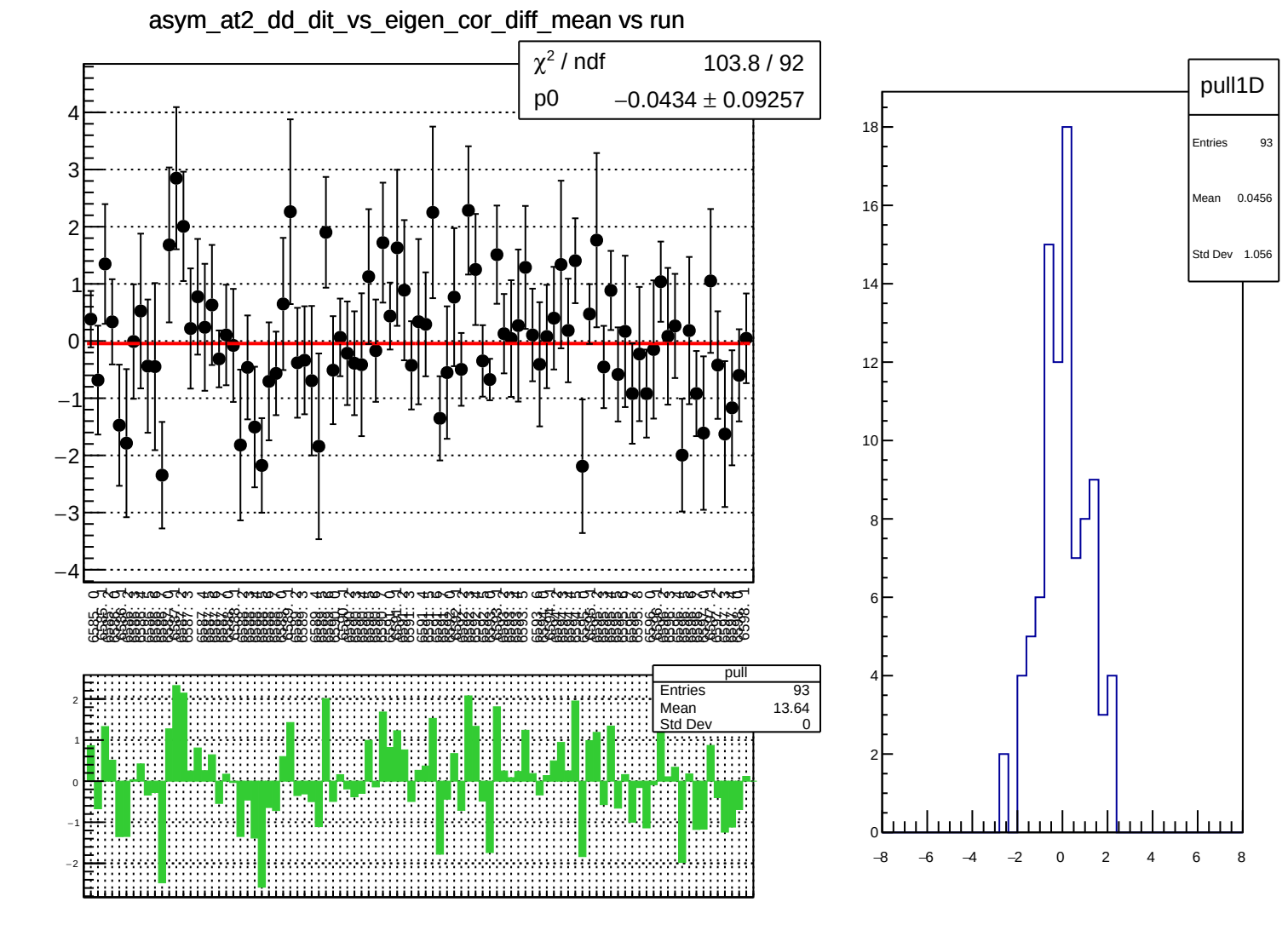

asym_at2_dd_rms vs run
χ^2 / ndf 494.9 / 92
p0 2054 ± 1.544
2200
2150
2100
2050
2000

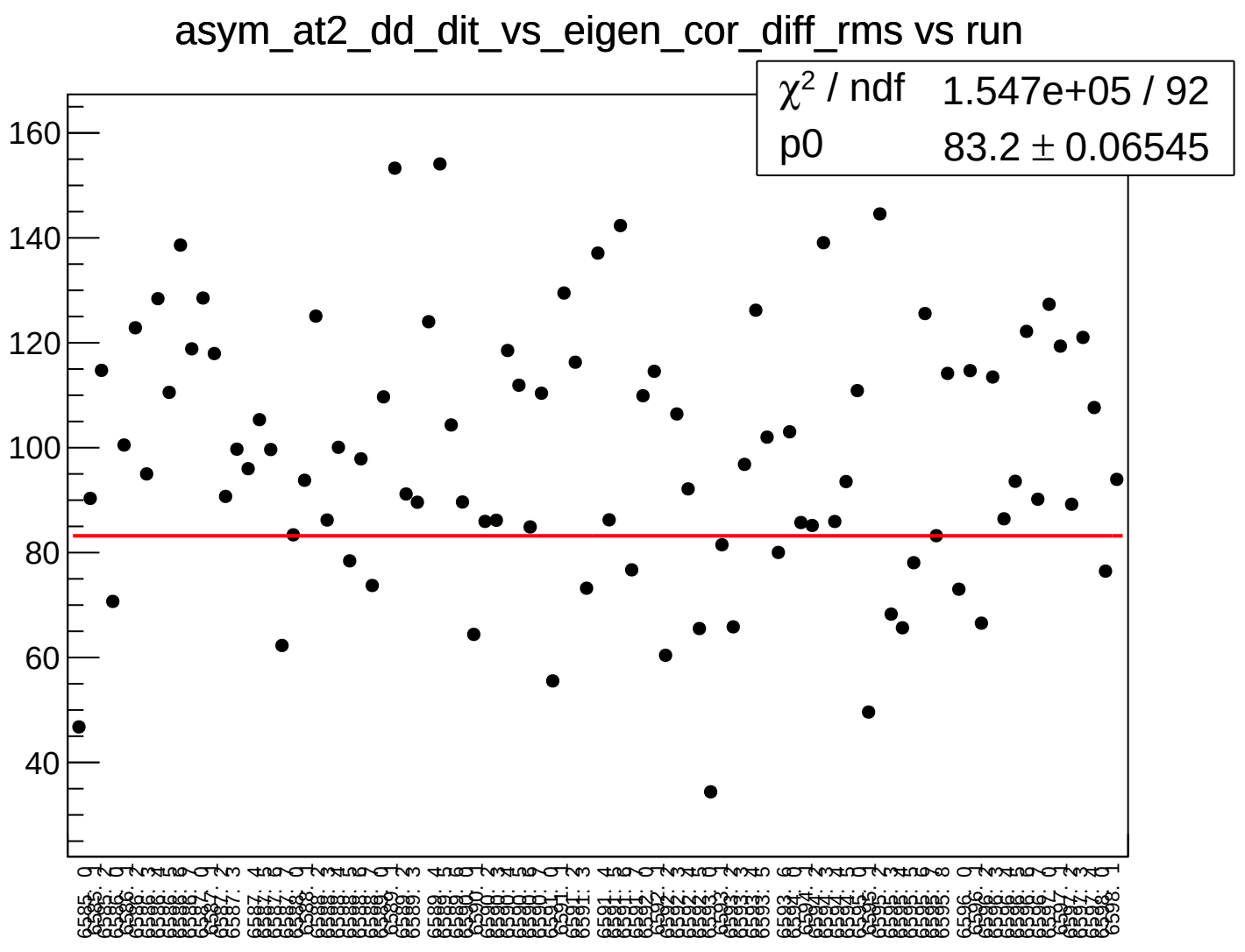

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.45 / 92
p0 −2.618e−14 ± 2.436e−14
pull
Entries 93
Mean −37.86
Std Dev 0
pull1D
Entries 93
Mean 0.01031
Std Dev 0.9358

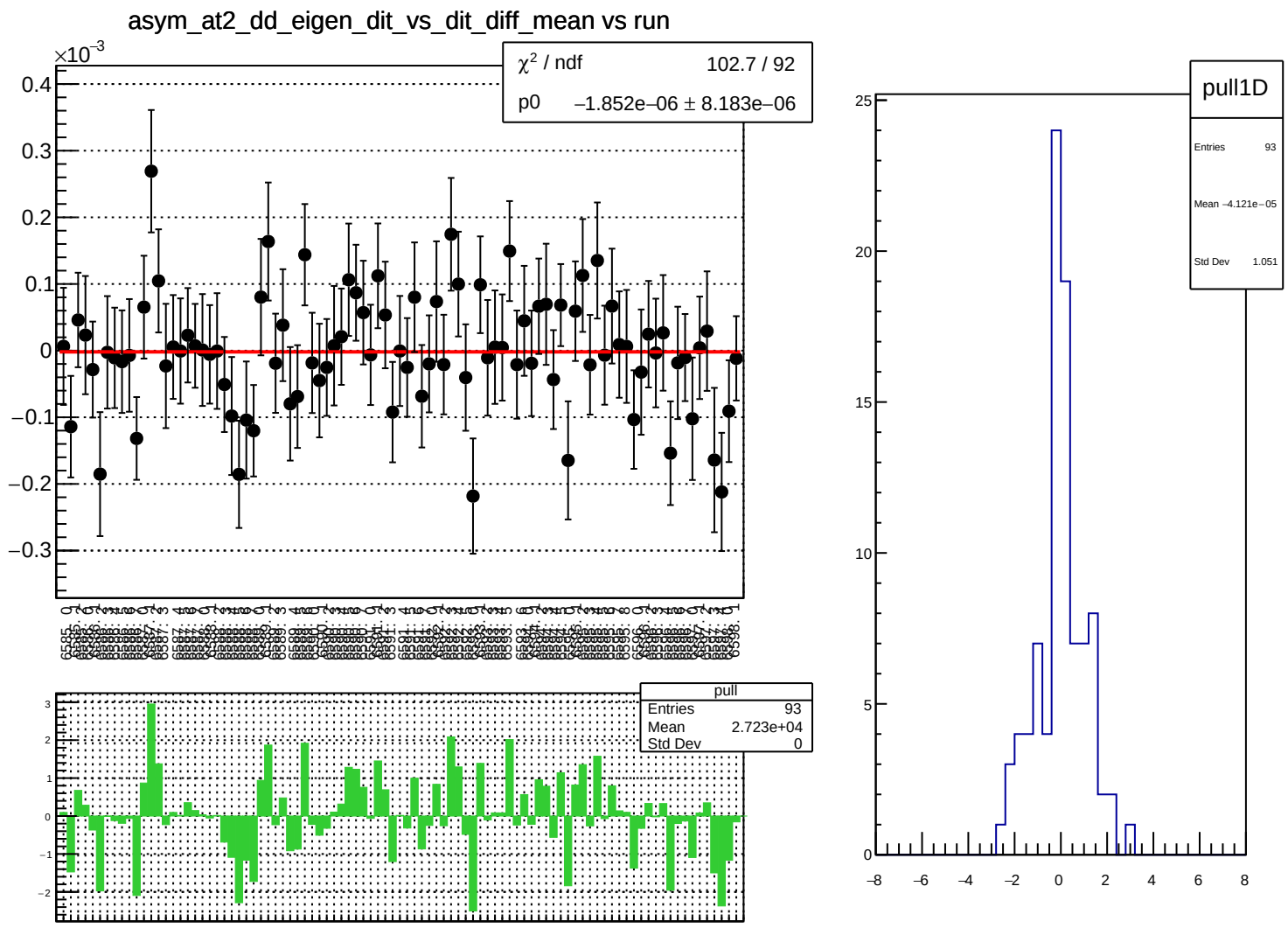

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.179e+06 / 92
p0 1.325e−11 ± 1.723e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

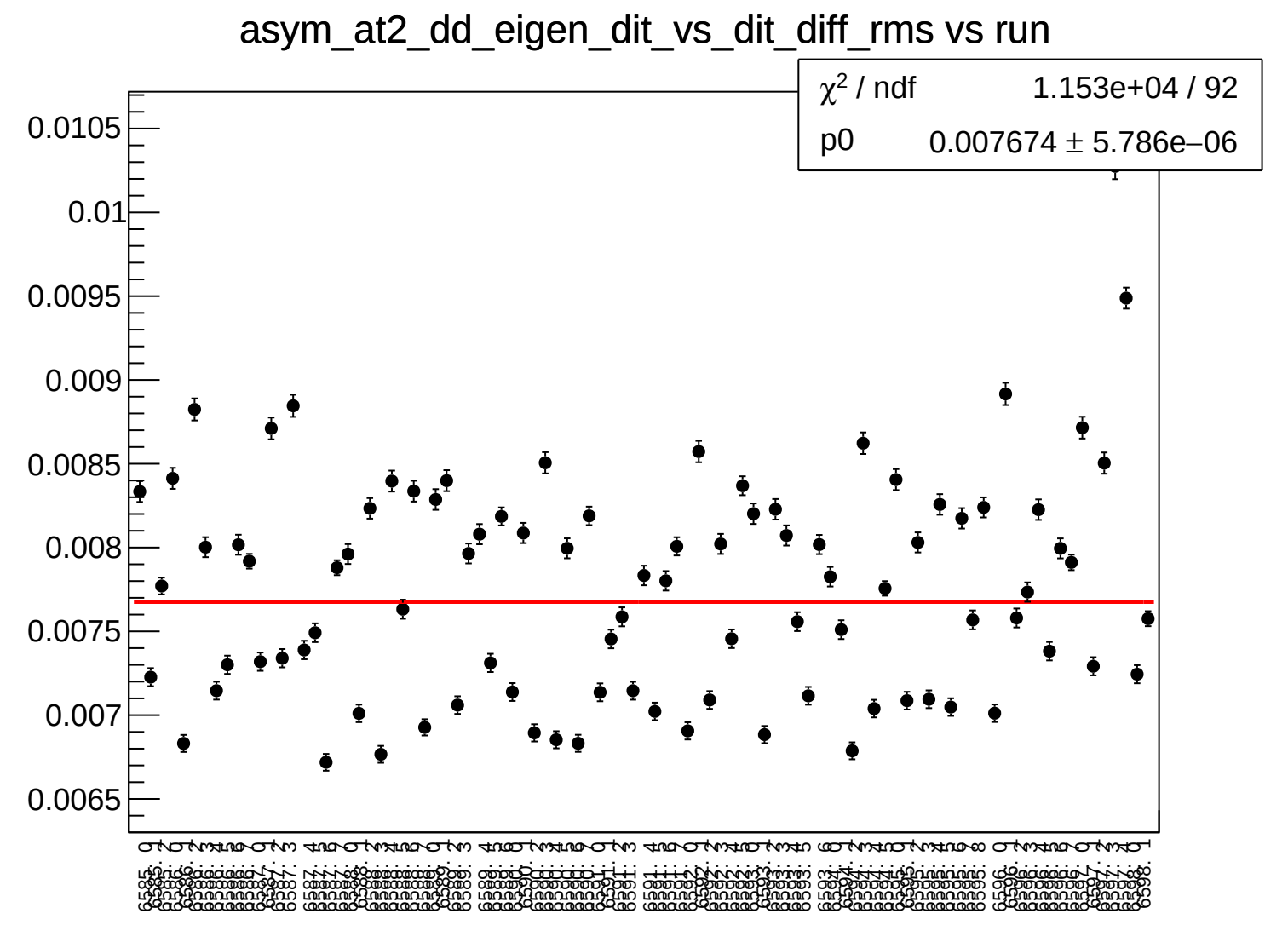

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 92
p0 −0.0434 ± 0.09257
pull
Entries 93
Mean 13.64
Std Dev 0
pull1D
Entries 93
Mean 0.0456
Std Dev 1.056

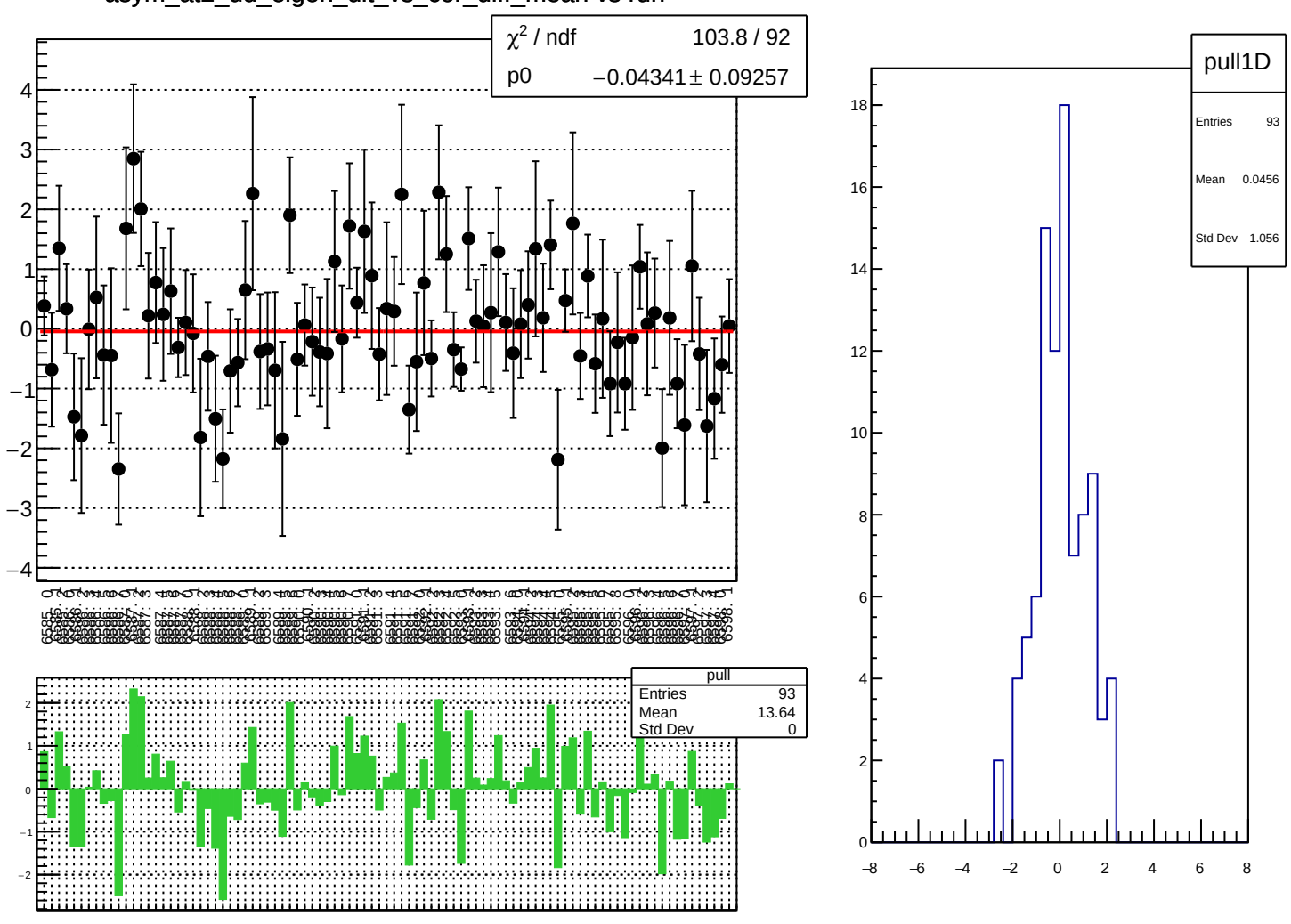

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.547e+05 / 92
p0 83.2 ± 0.06545
160
140
120
100
80
60
40

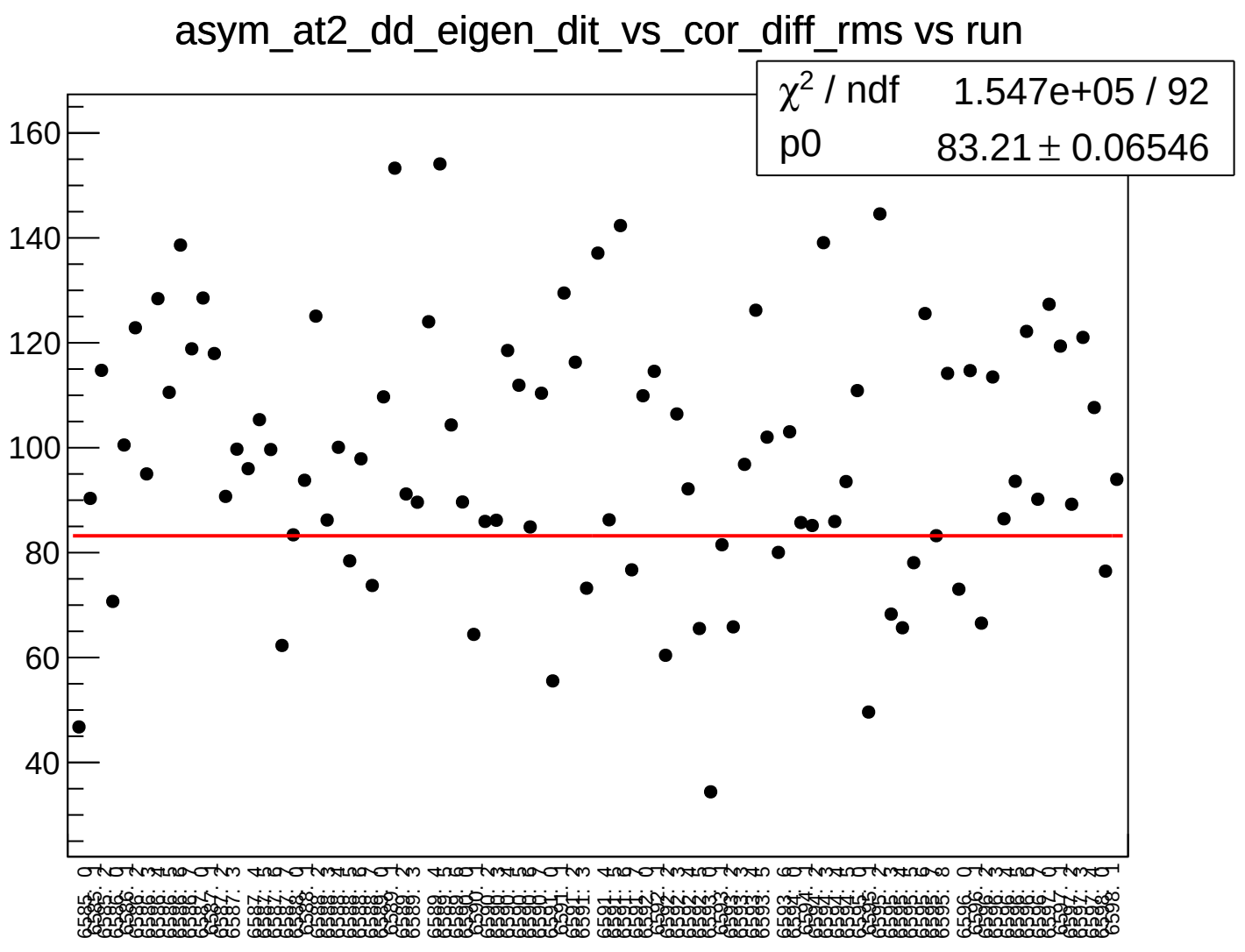

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 92
p0 −0.0434 ± 0.09257
pull
Entries 93
Mean 13.64
Std Dev 0
pull1D
Entries 93
Mean 0.0456
Std Dev 1.056

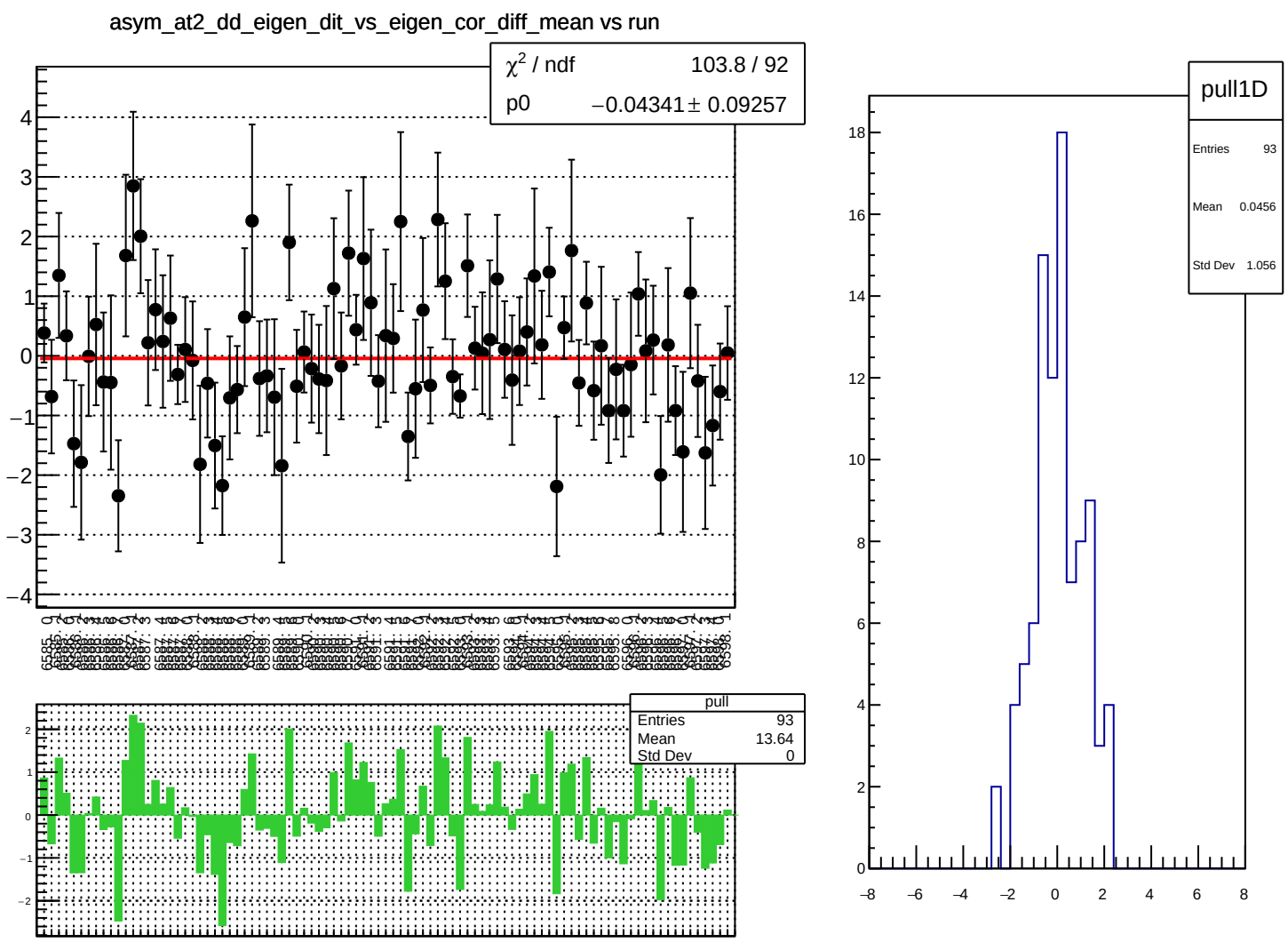

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.547e+05 / 92
p0 83.2 ± 0.06545
160
140
120
100
80
60
40

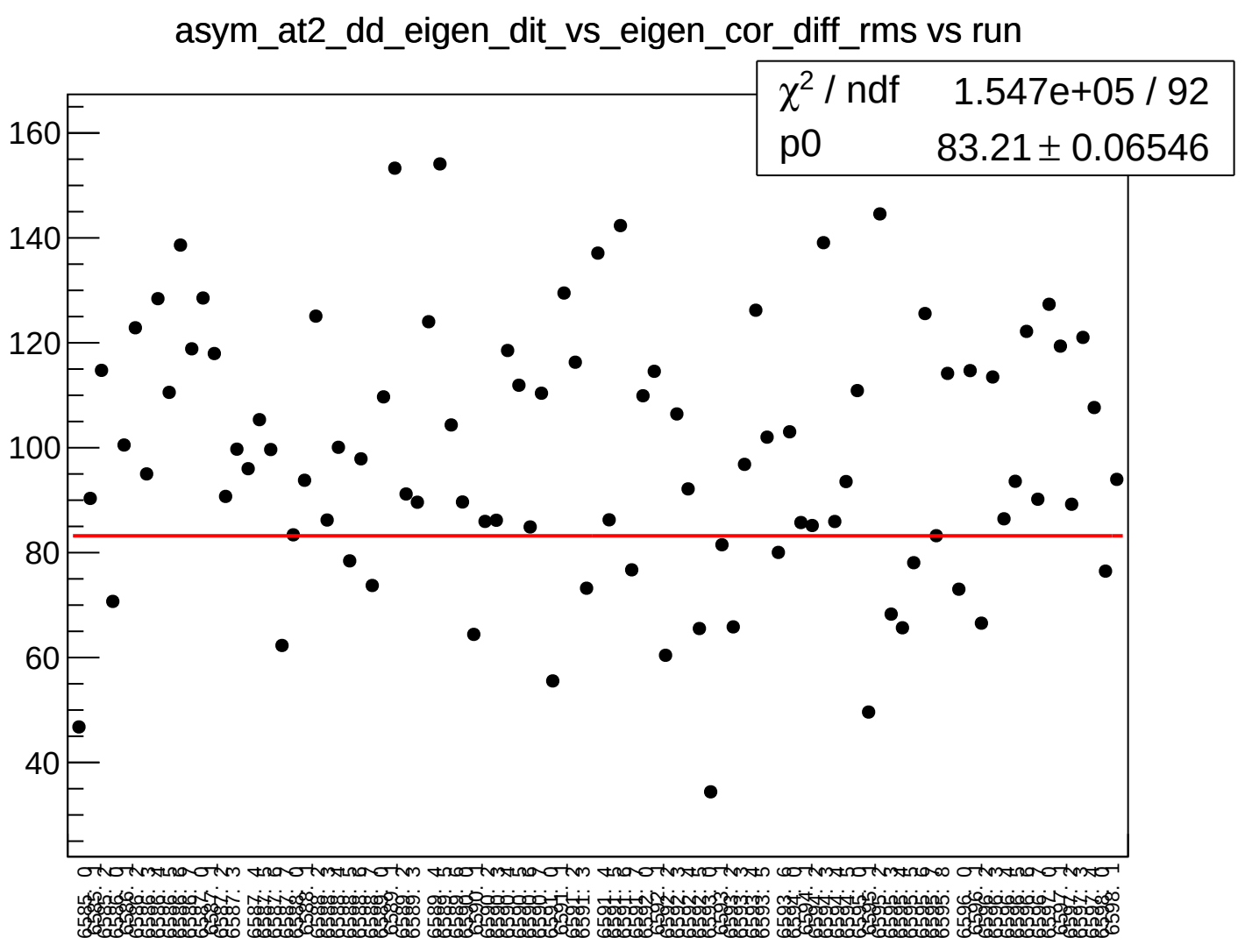

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 102.7 / 92
p0 −1.852e−06 ± 8.183e−06
pull
Entries 93
Mean 2.723e+04
Std Dev 0
pull1D
Entries 93
Mean −4.121e−05
Std Dev 1.051

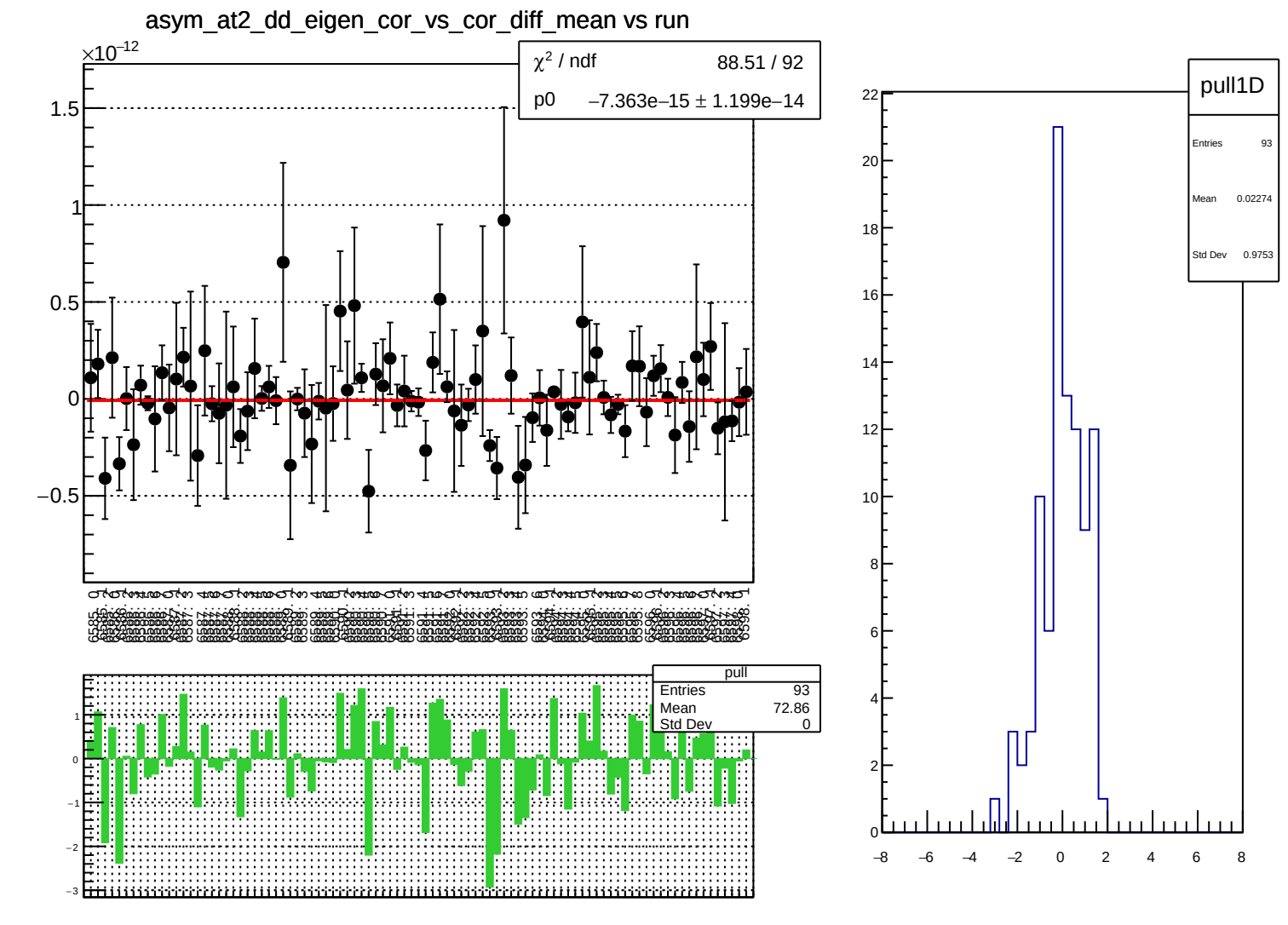

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.153e+04 / 92
p0 0.007674 ± 5.786e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

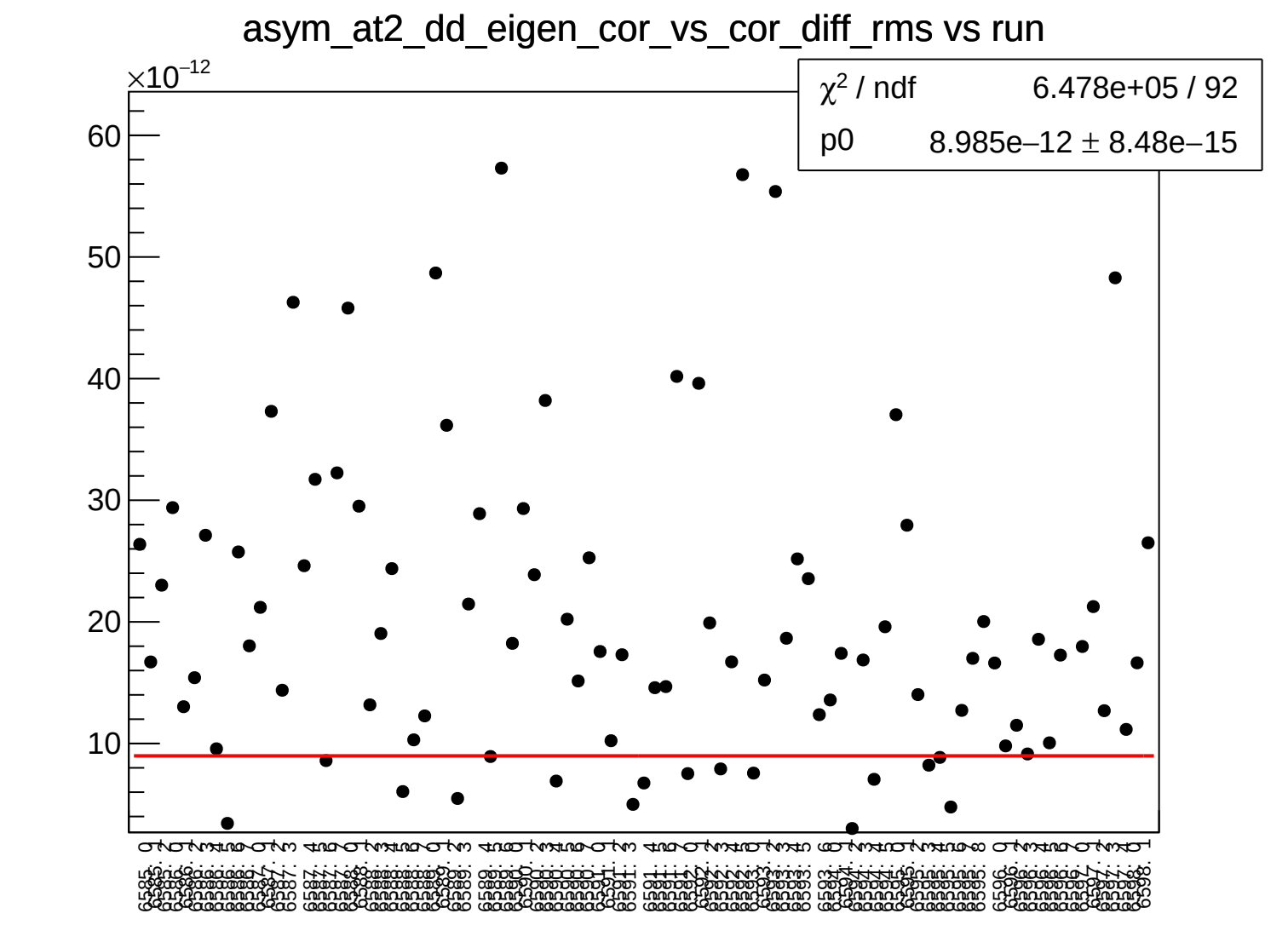

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 92
p0 −0.04341 ± 0.09257
pull
Entries 93
Mean 13.64
Std Dev 0
pull1D
Entries 93
Mean 0.0456
Std Dev 1.056

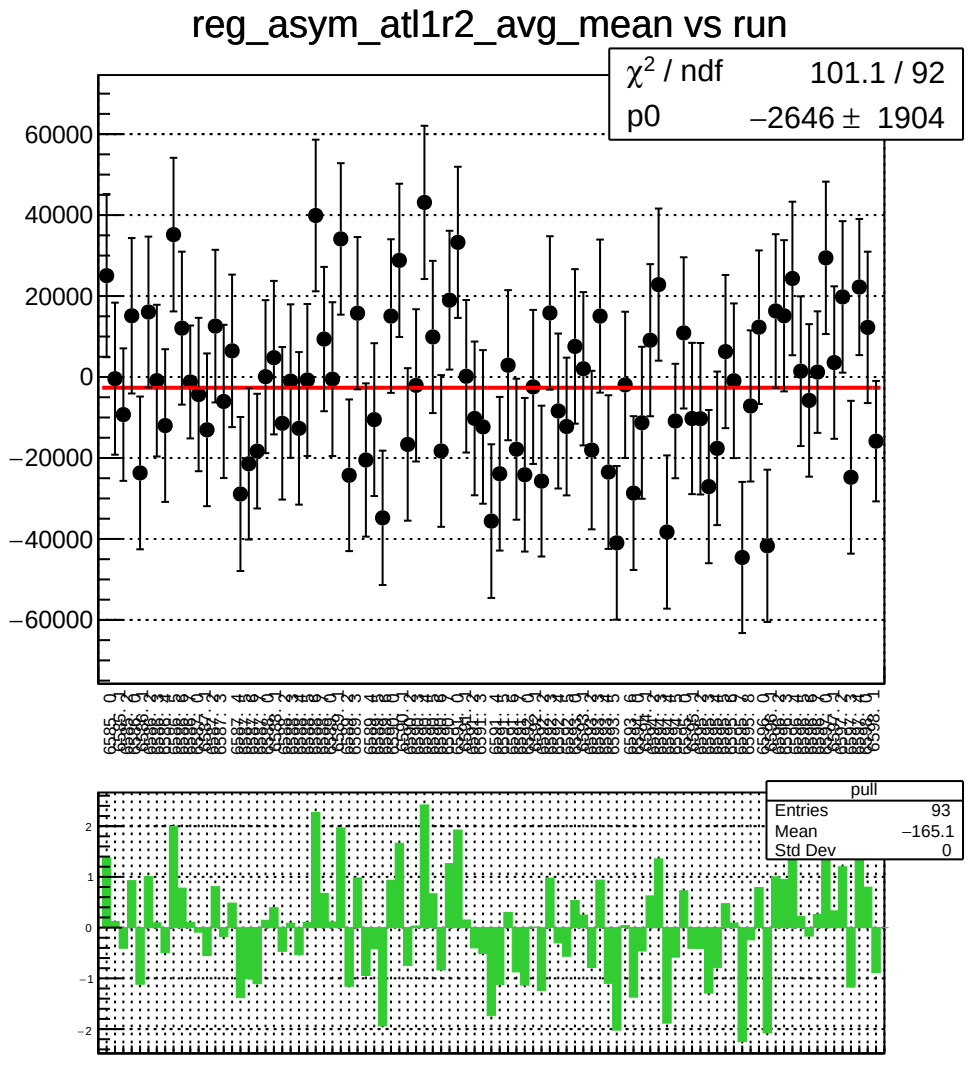

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.547e+05 / 92
p0 83.21 ± 0.06546
160
140
120
100
80
60
40

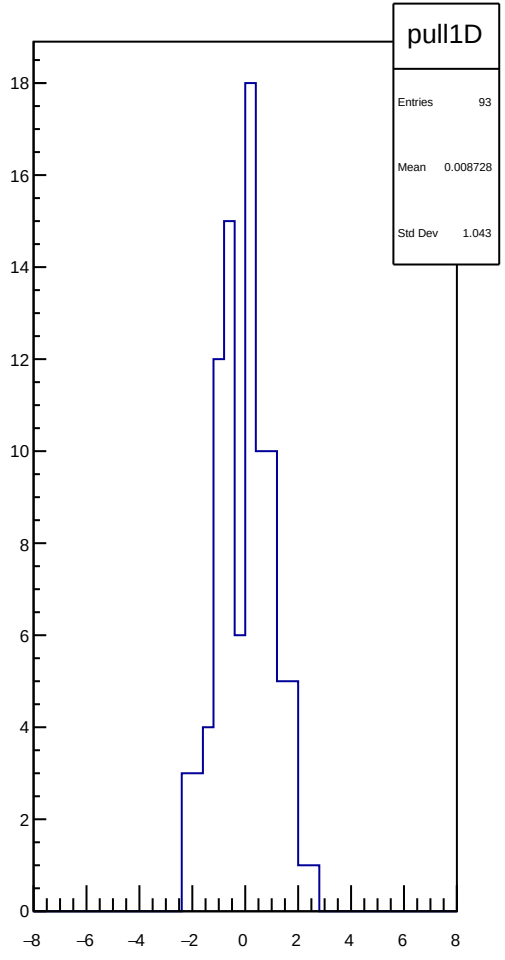

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 92
p0 −0.04341 ± 0.09257
pull
Entries 93
Mean 13.64
Std Dev 0
pull1D
Entries 93
Mean 0.0456
Std Dev 1.056

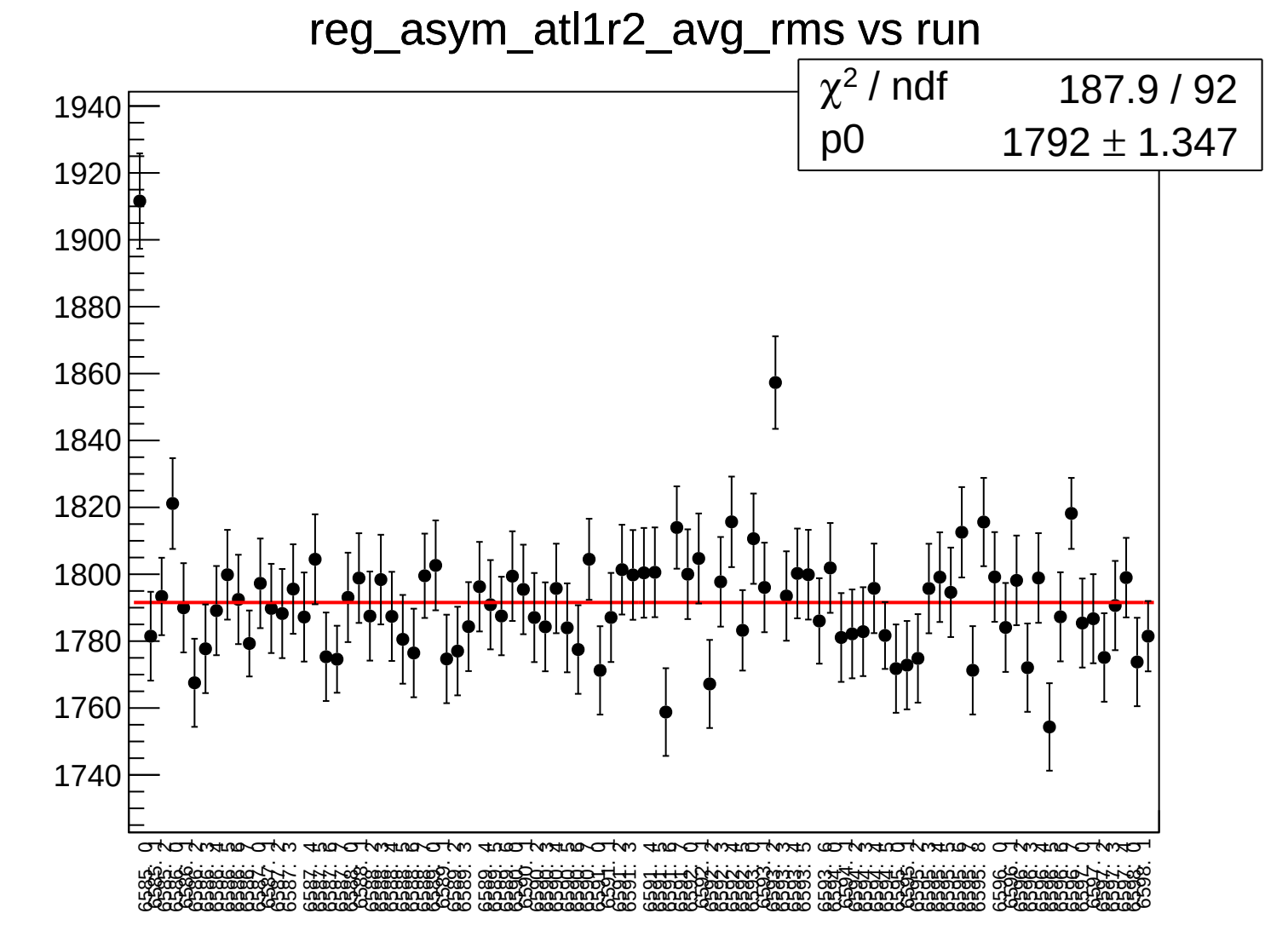

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.547e+05 / 92
p0 83.21 ± 0.06546
160
140
120
100
80
60
40

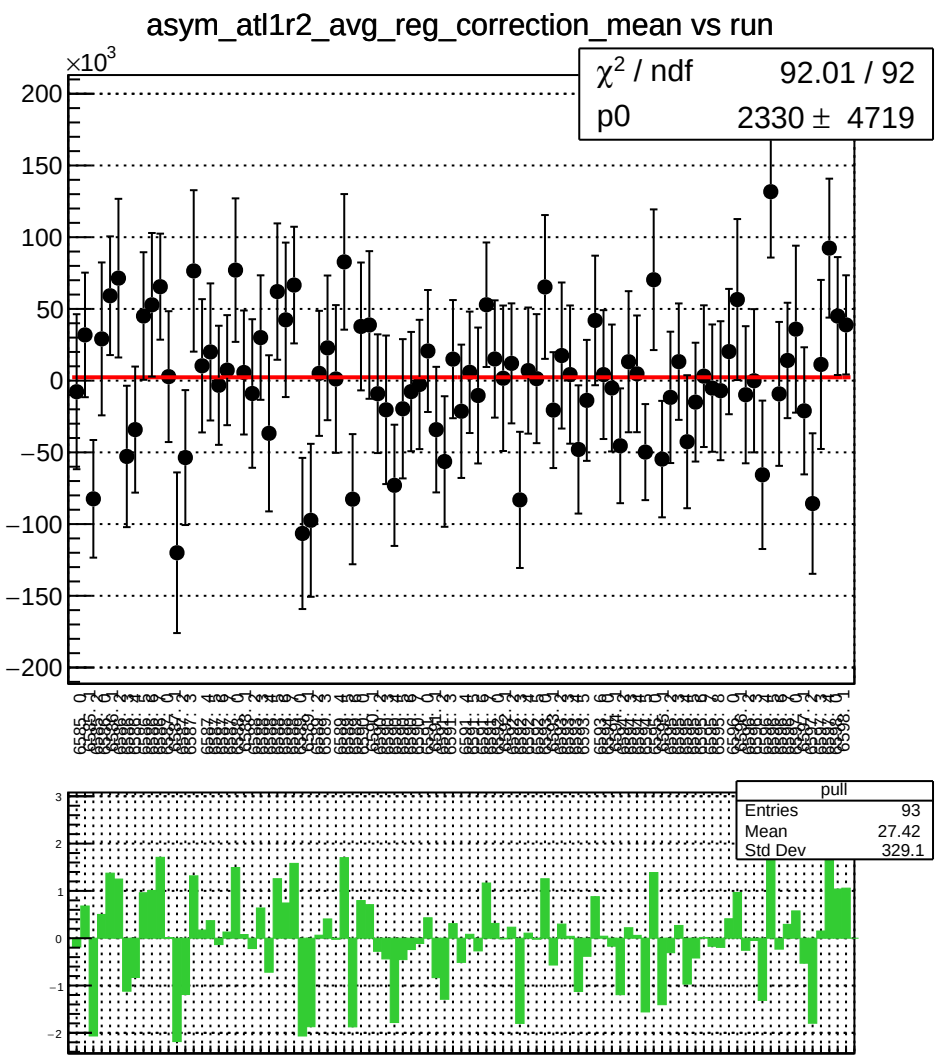

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.51 / 92
p0 −7.363e−15 ± 1.199e−14
1.5
1
0.5
0
−0.5
pull
Entries 93
Mean 72.86
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.02274
Std Dev 0.9753
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

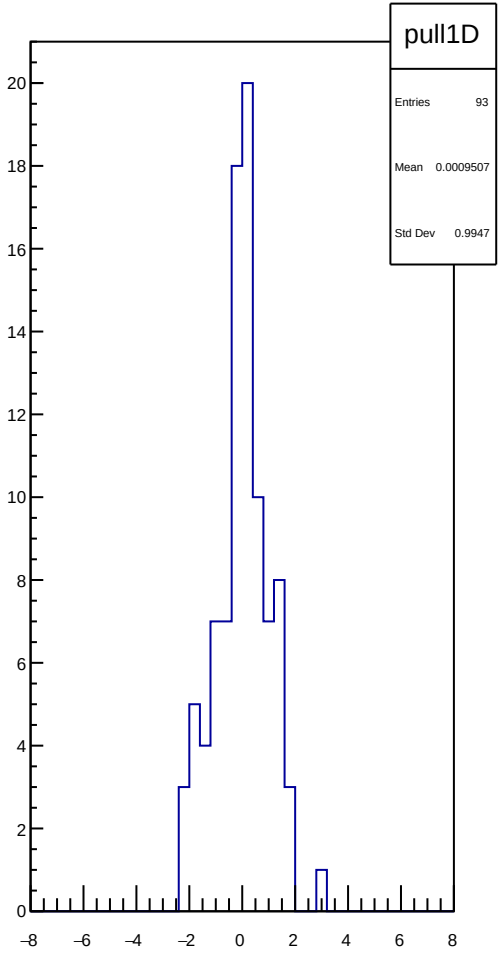

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.478e+05 / 92
p0 8.985e−12 ± 8.48e−15
60
50
40
30
20
10

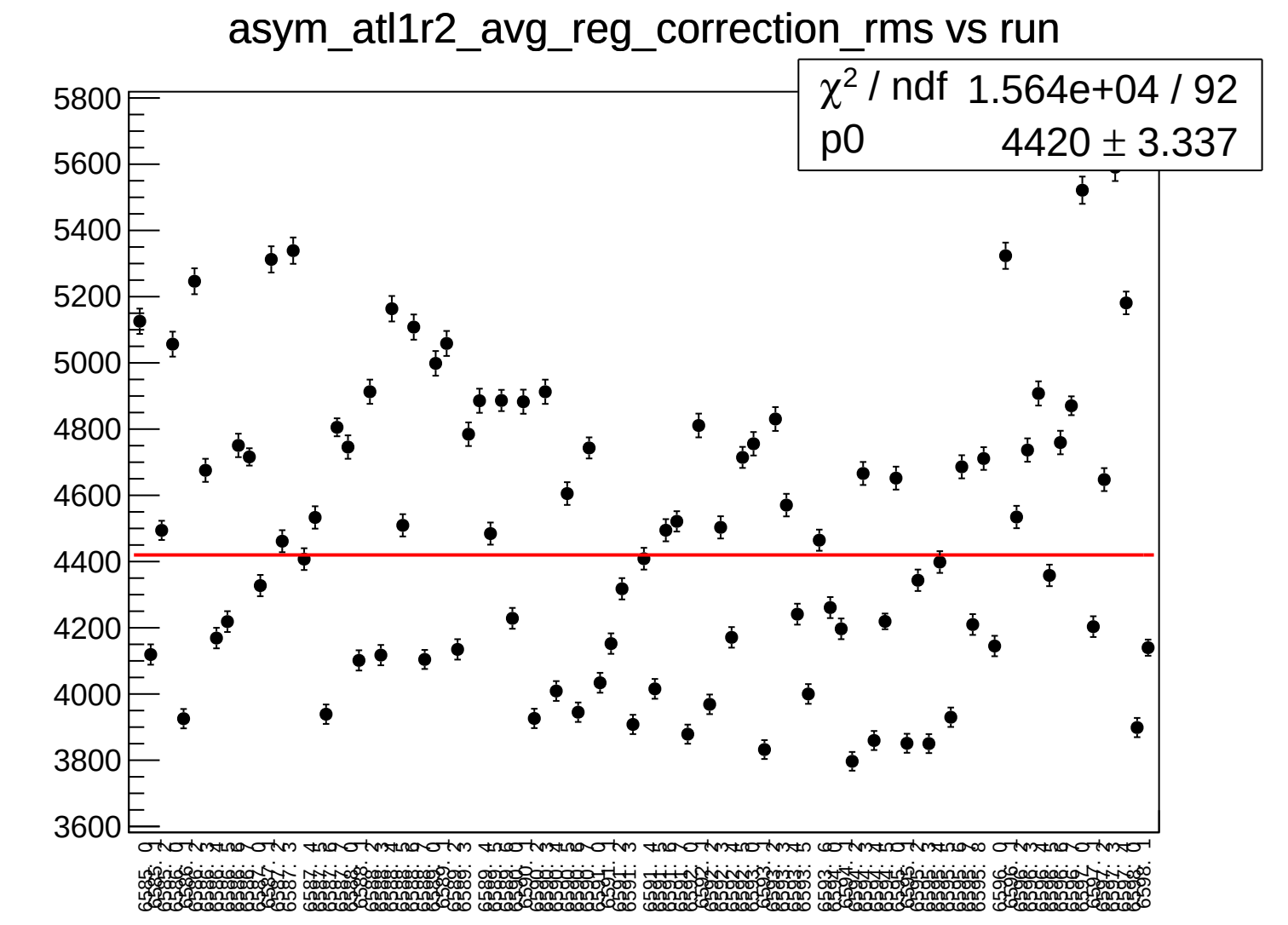

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 101.1 / 92
p0 −2646 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −165.1
Std Dev 0
2
1
0
−1
−2

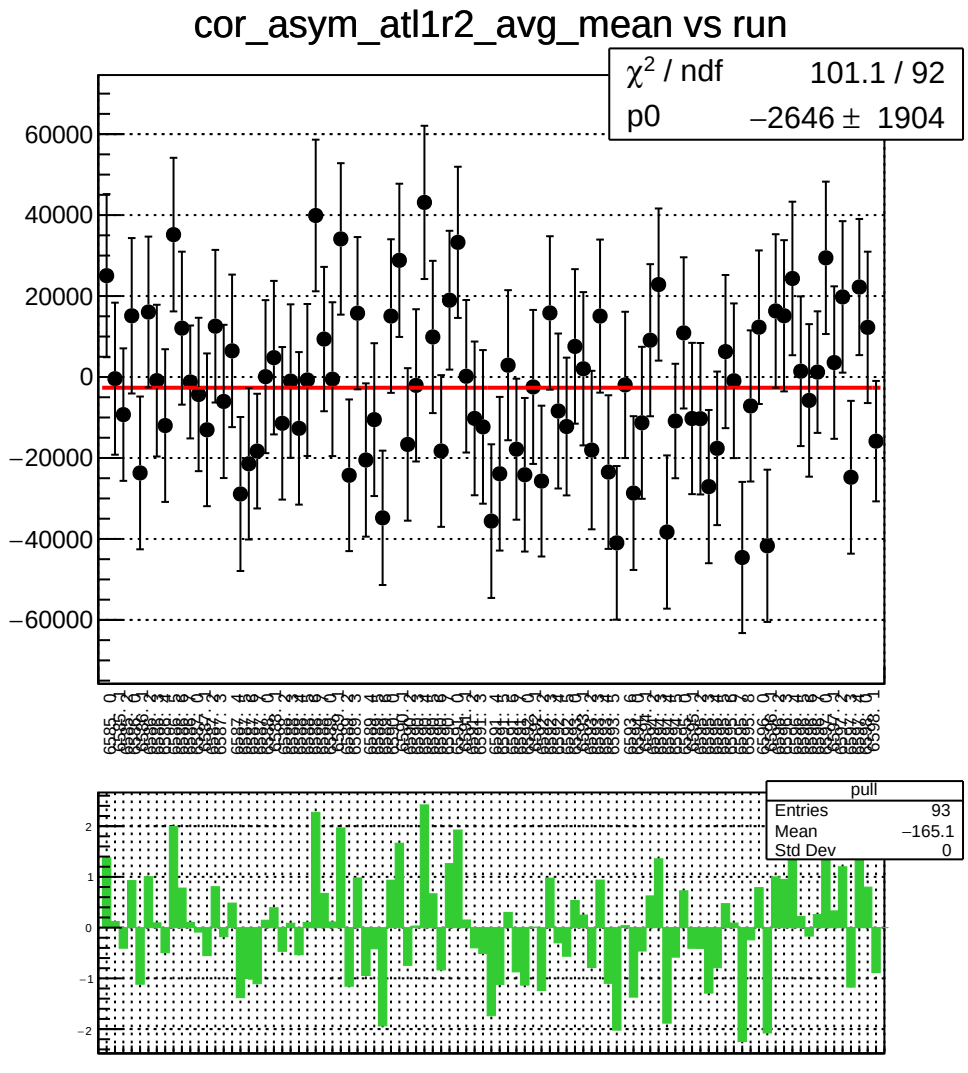

pull1D
Entries 93
Mean 0.008728
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

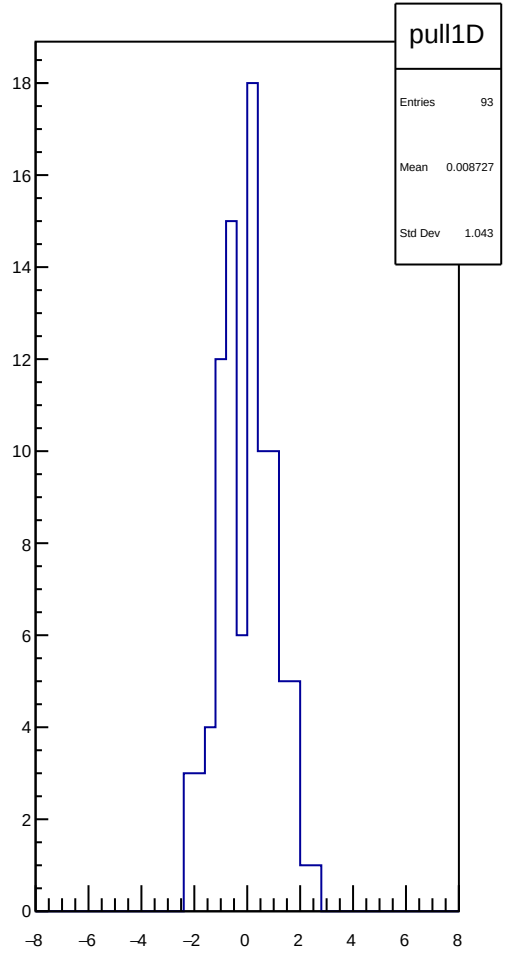

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 187.9 / 92
p0 1792 ± 1.347
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

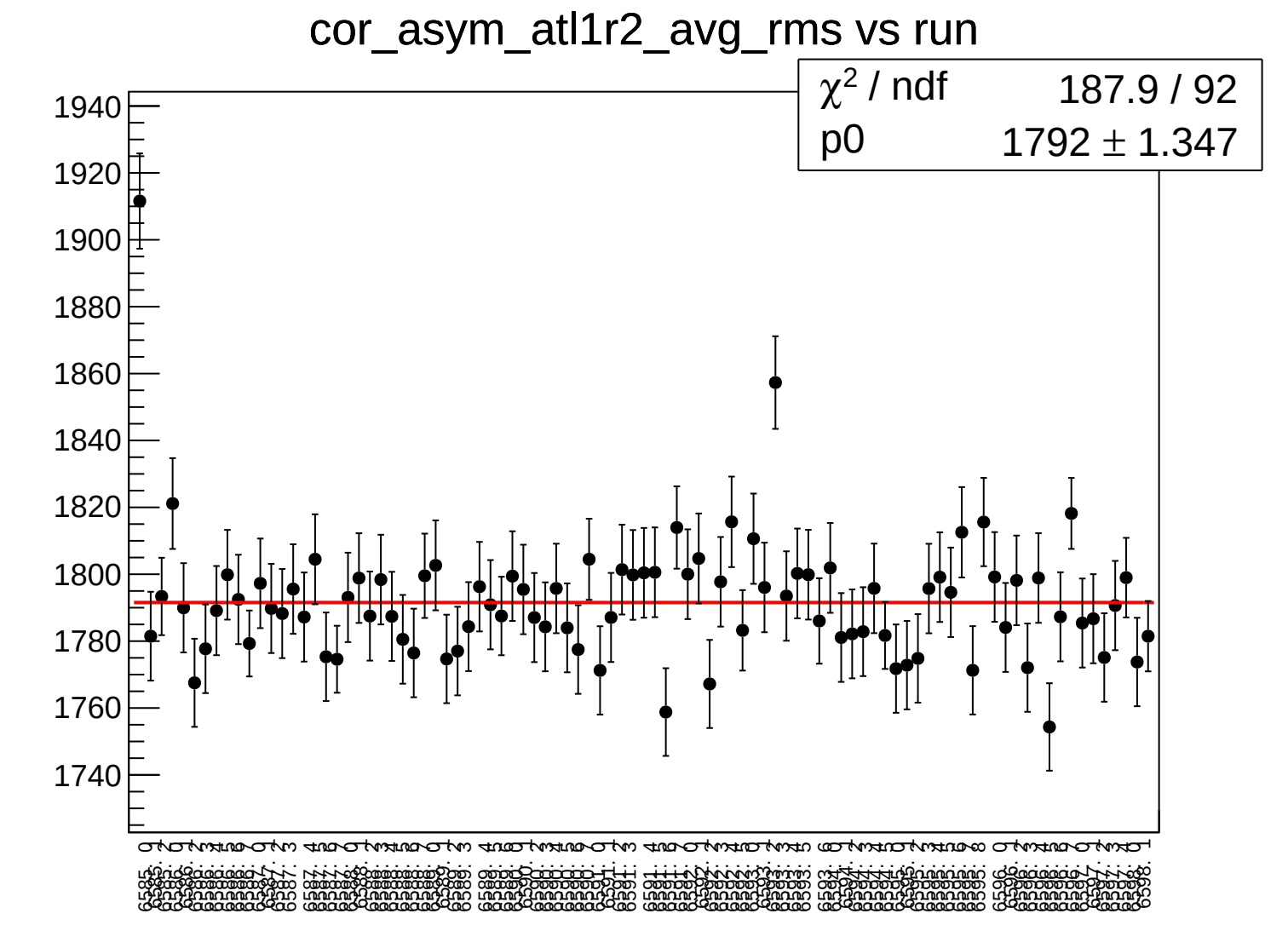

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 92.01 / 92
p0 2330 ± 4719
pull
Entries 93
Mean 27.42
Std Dev 329.1

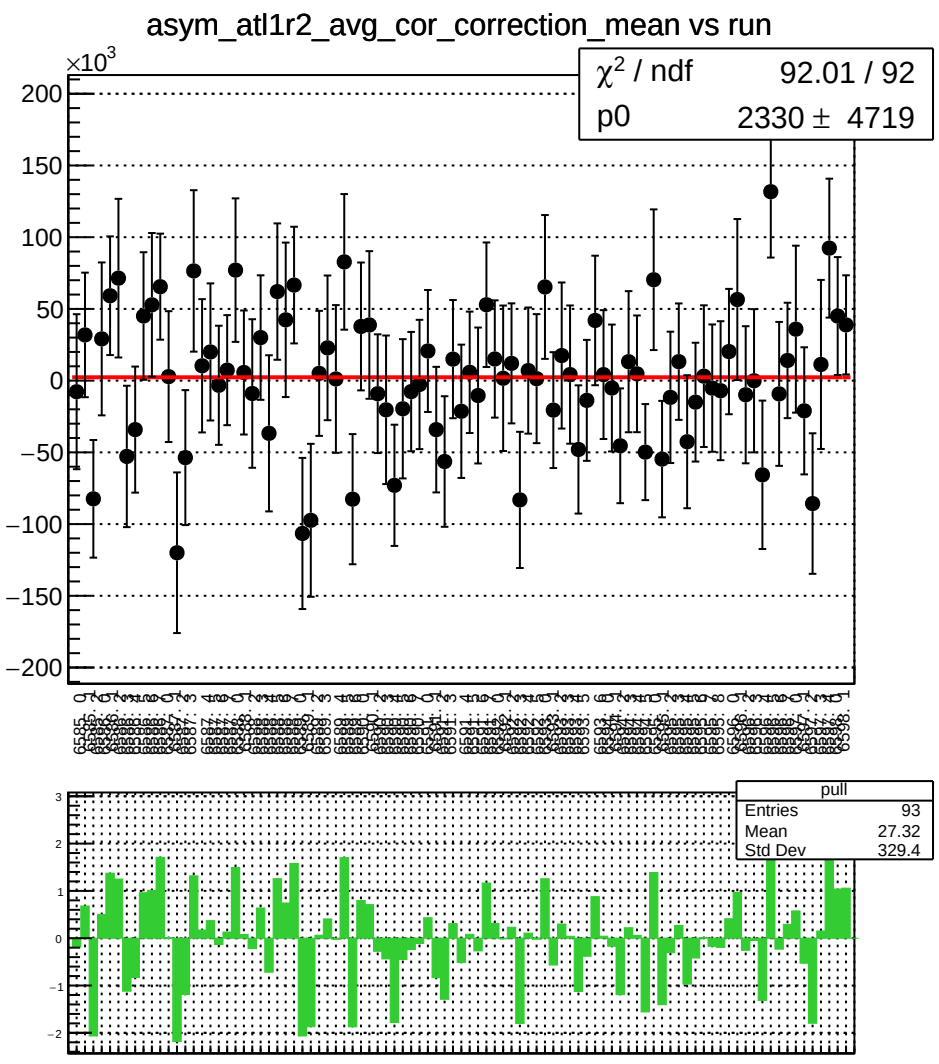

pull1D
Entries 93
Mean 0.0009507
Std Dev 0.9947

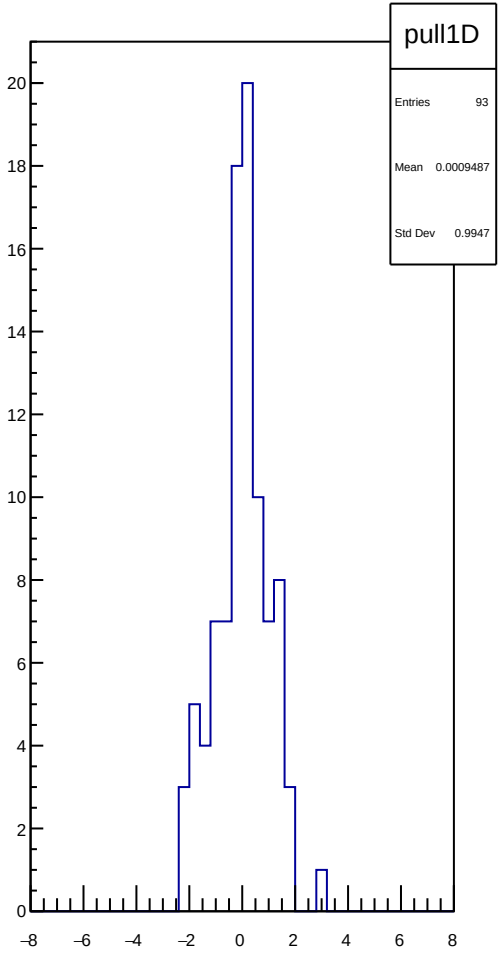

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.564e+04 / 92
p0 4420 ± 3.337
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

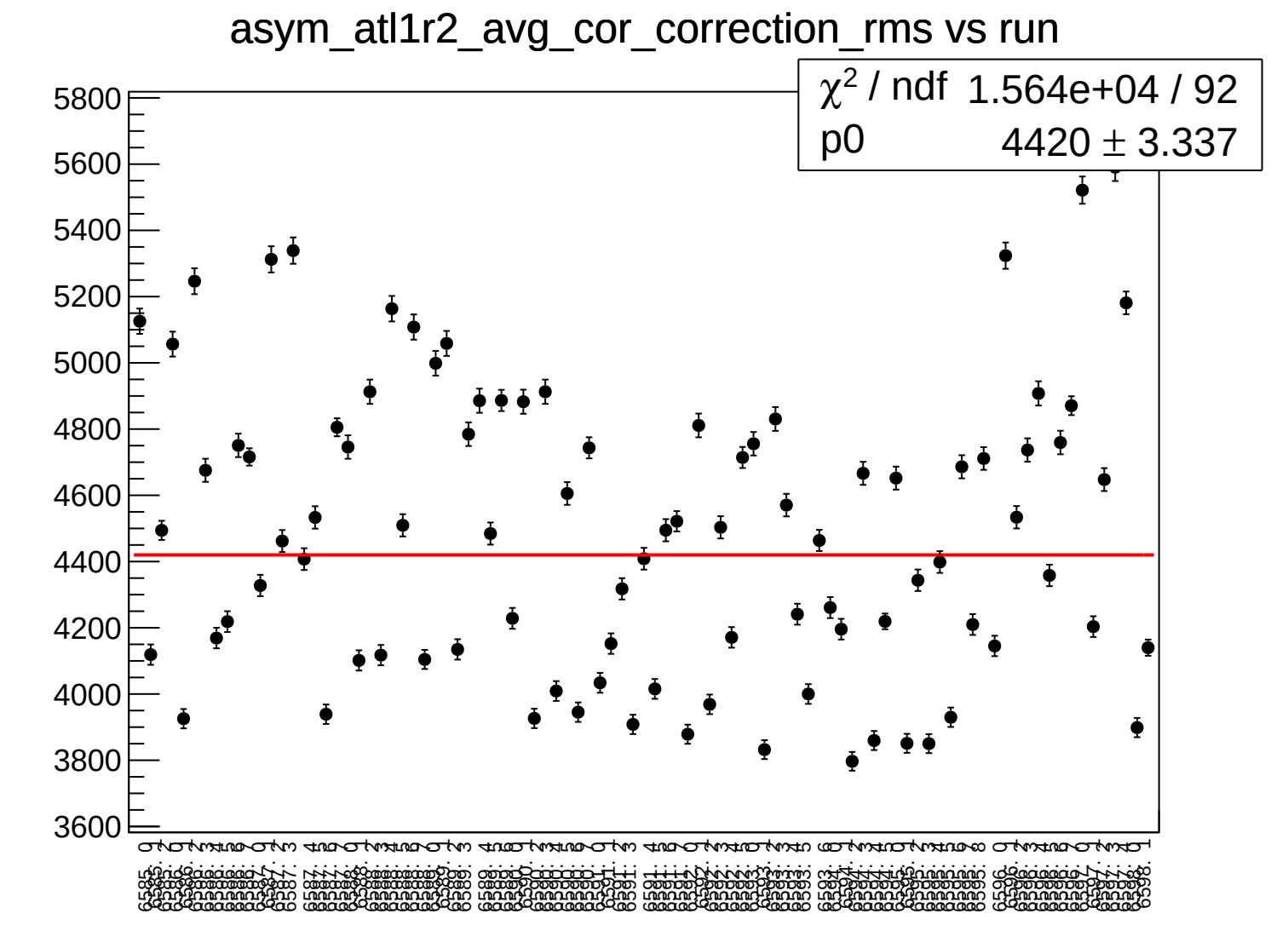

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 101.1 / 92
p0 −2646 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −165.1
Std Dev 0
2
1
0
−1
−2

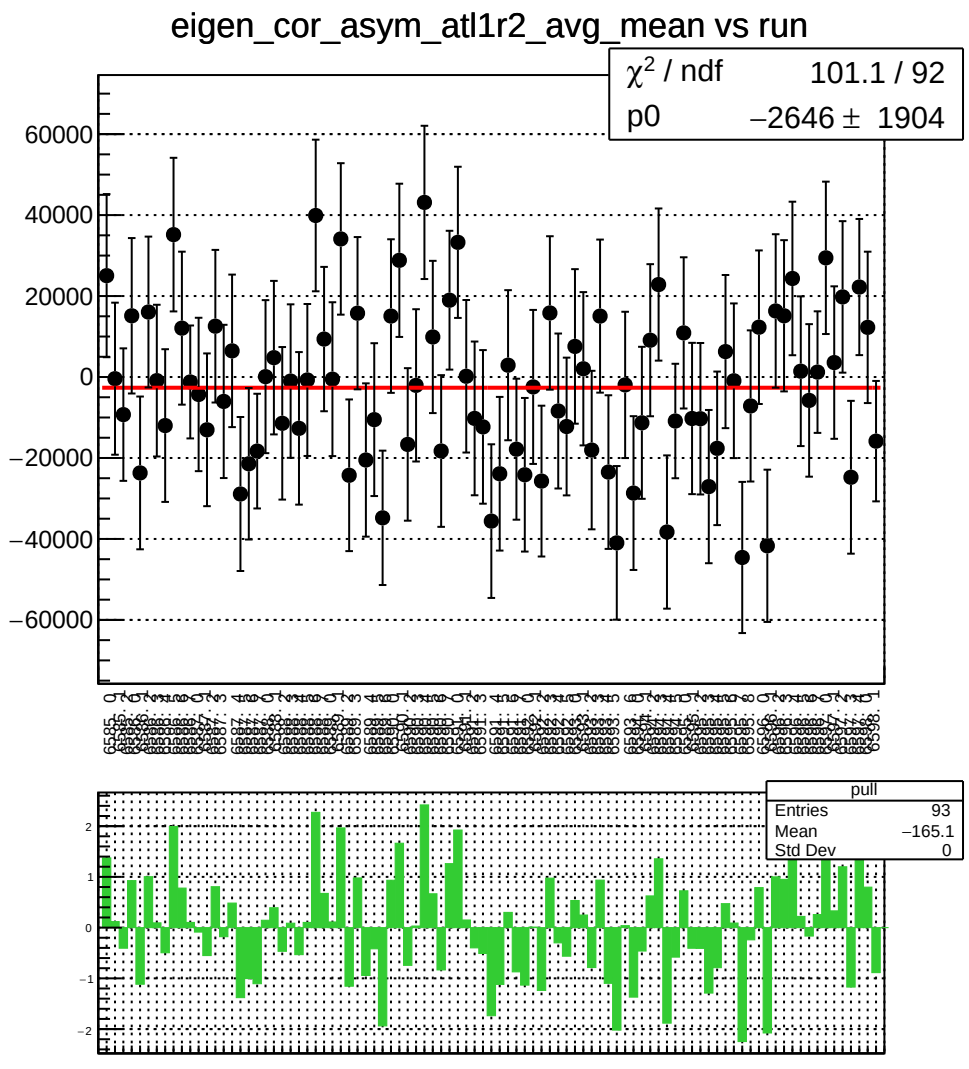

pull1D
Entries 93
Mean 0.008727
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

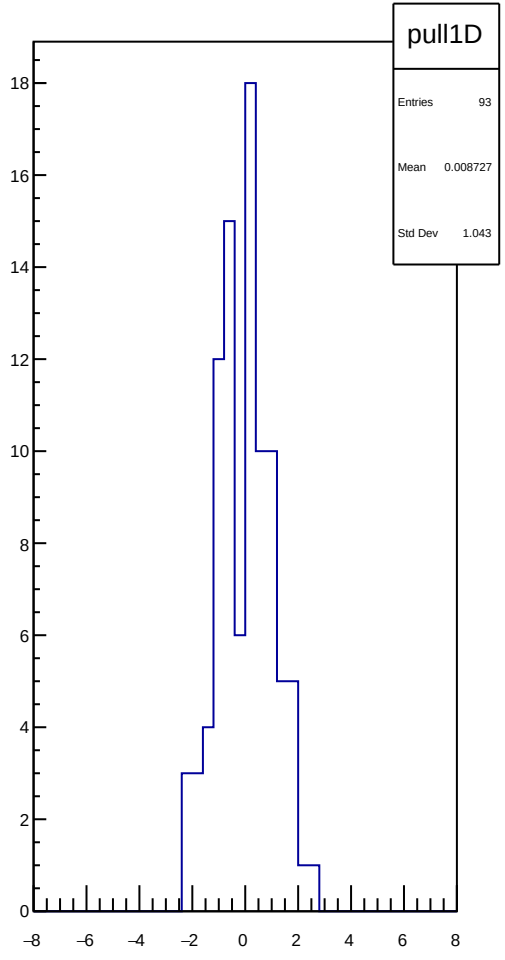

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 187.9 / 92
p0 1792 ± 1.347
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

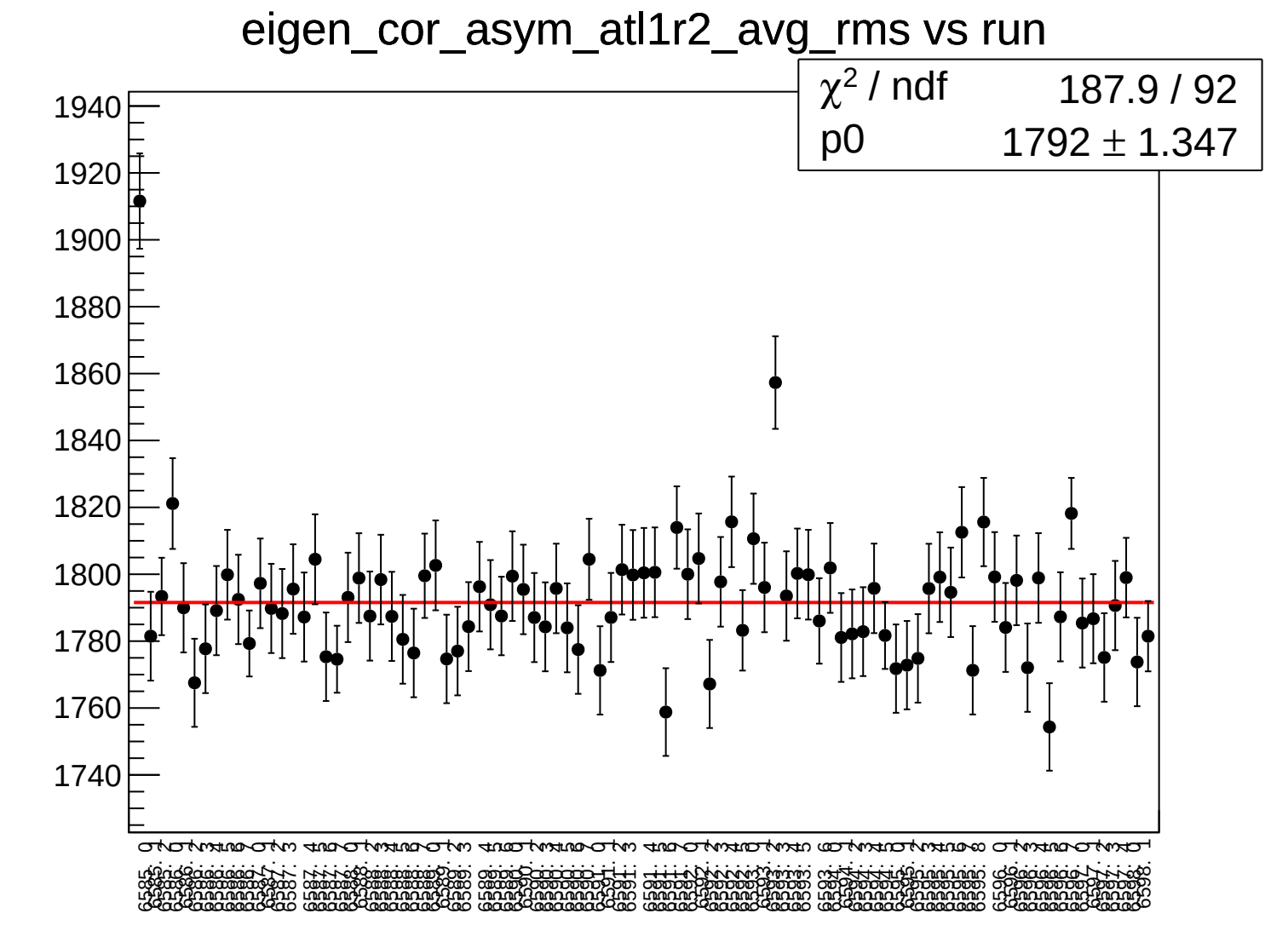

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 92.01 / 92
p0 2330 ± 4719
pull
Entries 93
Mean 27.32
Std Dev 329.4

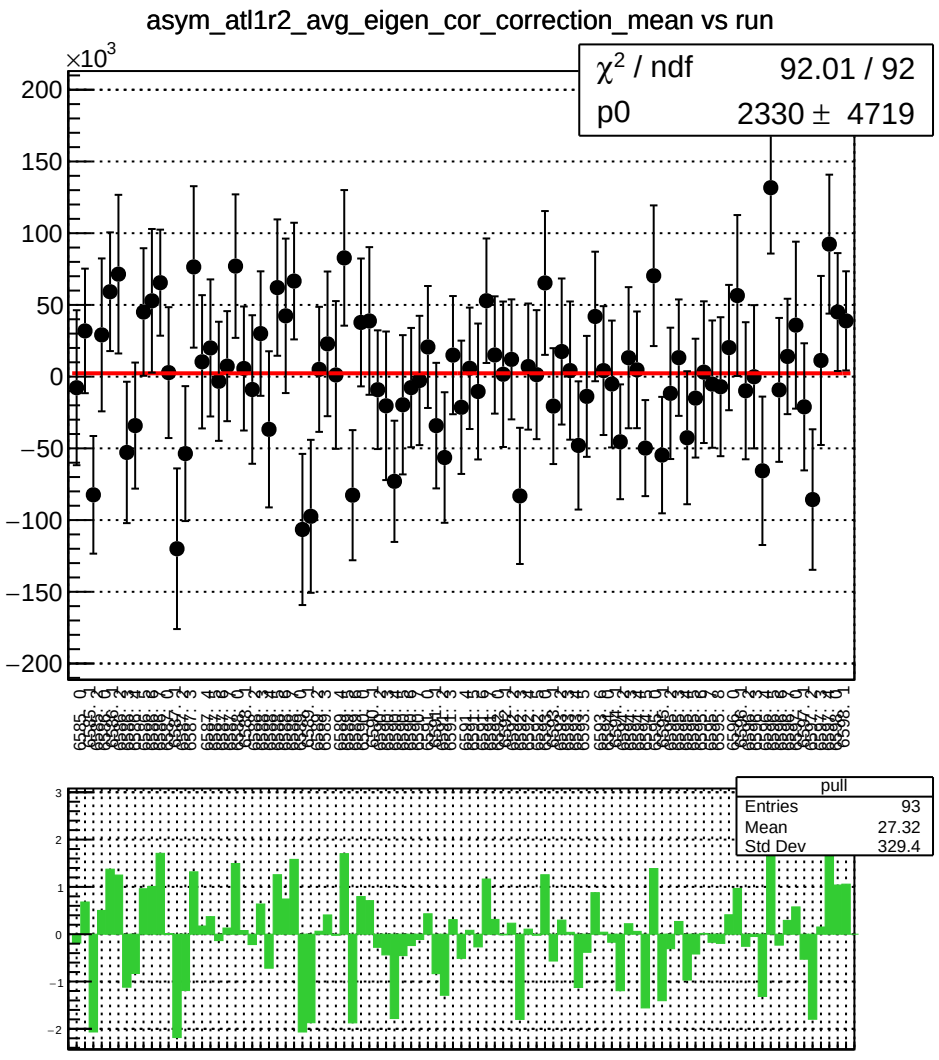

pull1D
Entries 93
Mean 0.0009487
Std Dev 0.9947

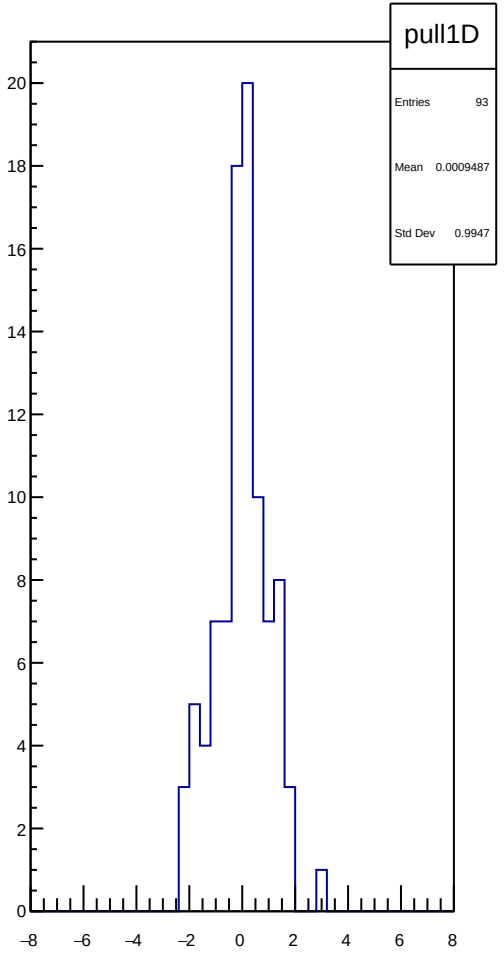

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.564e+04 / 92
p0 4420 ± 3.337
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

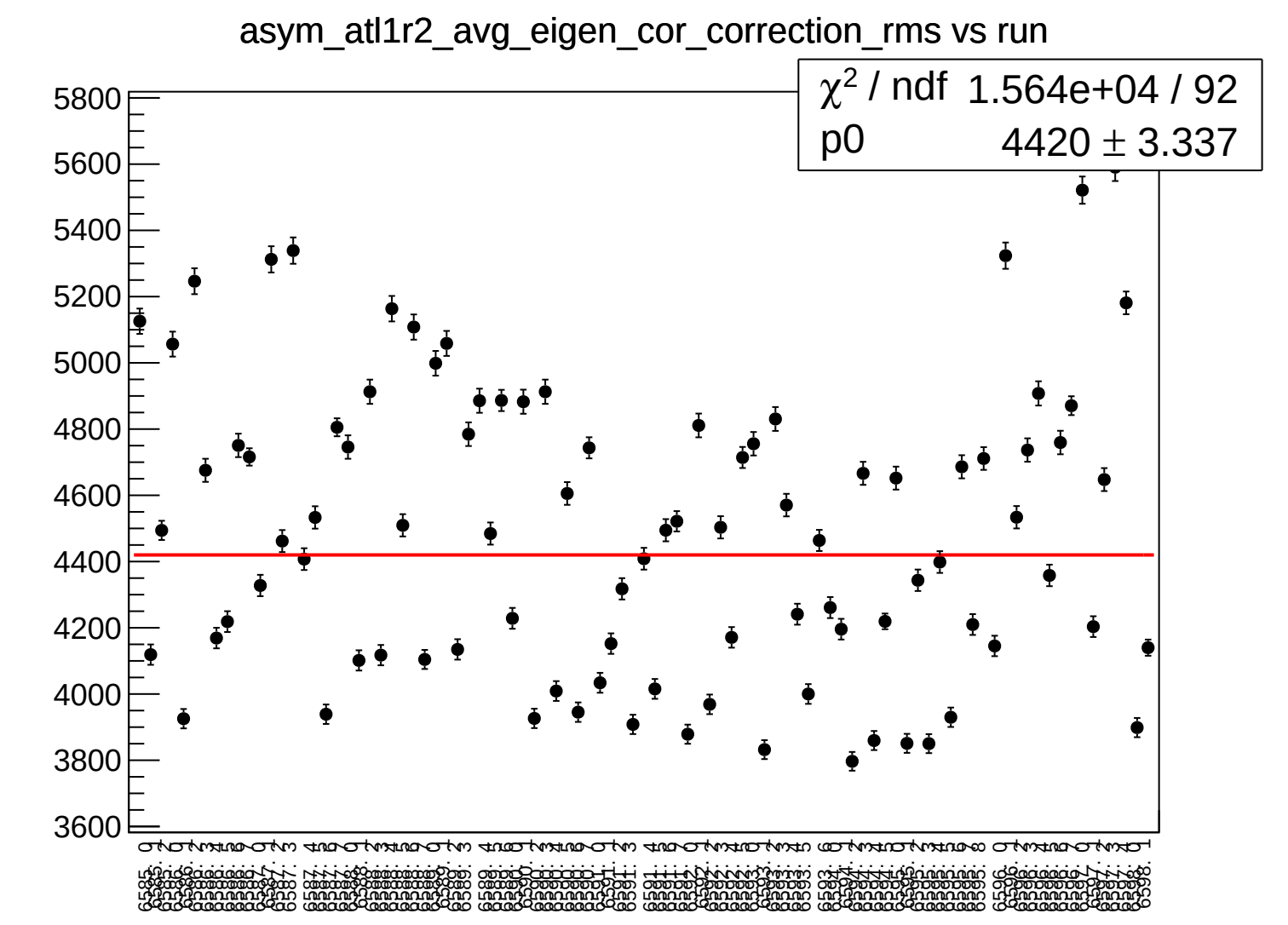

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 101.1 / 92
p0 −2646 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −165.1
Std Dev 0
2
1
0
−1
−2

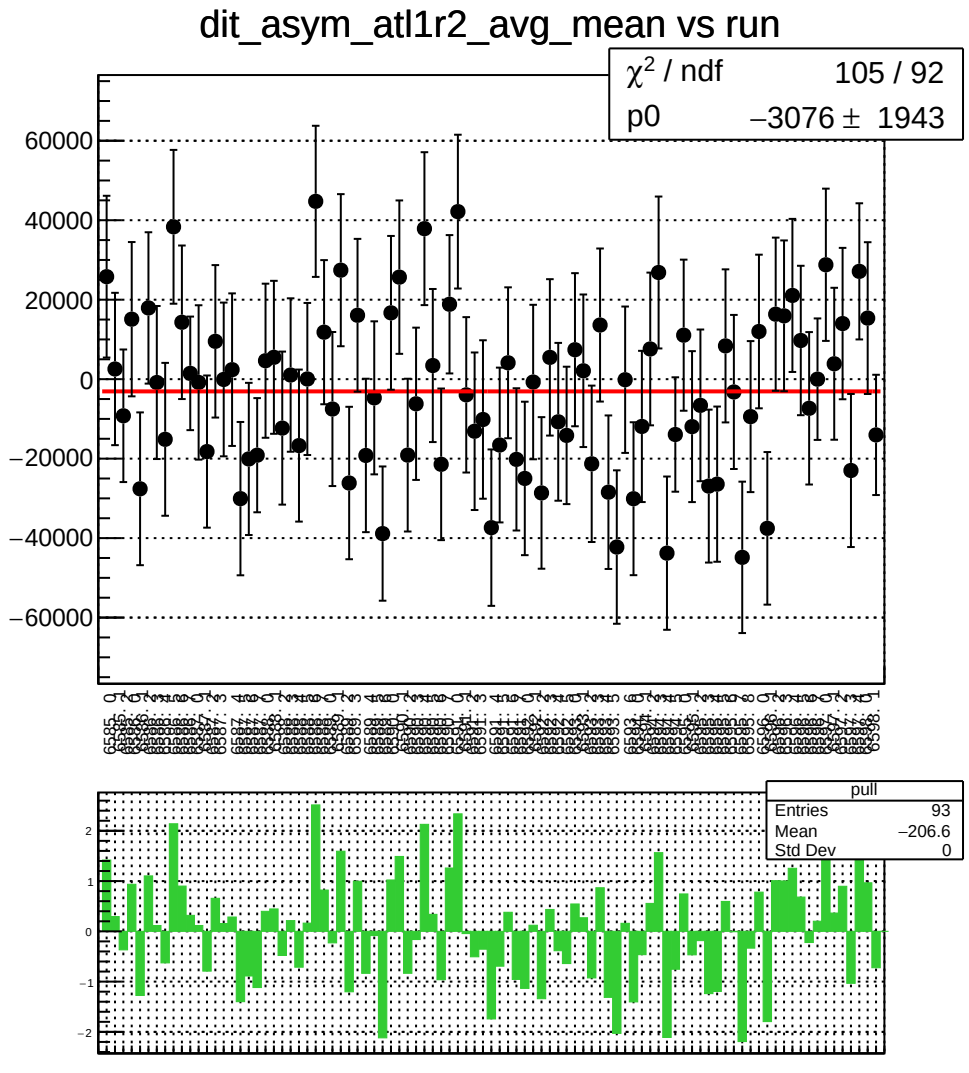

pull1D
Entries 93
Mean 0.008727
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

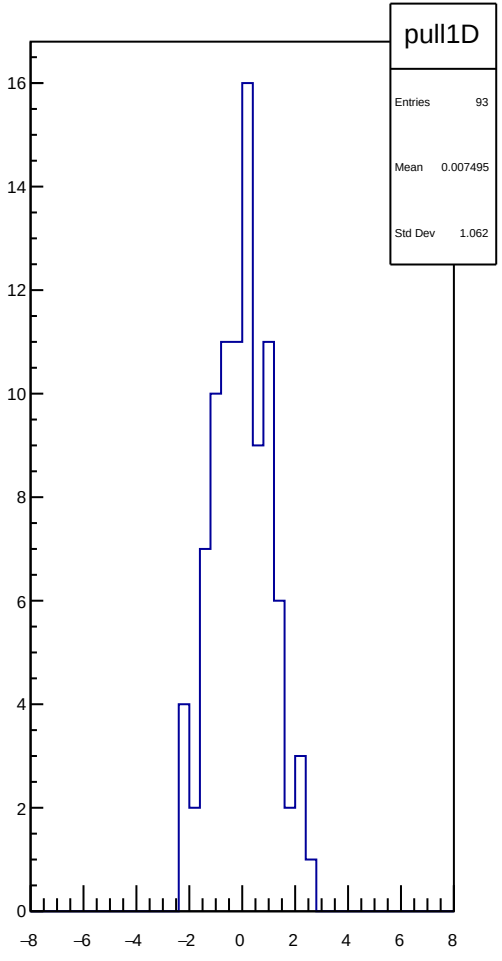

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 187.9 / 92
p0 1792 ± 1.347
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

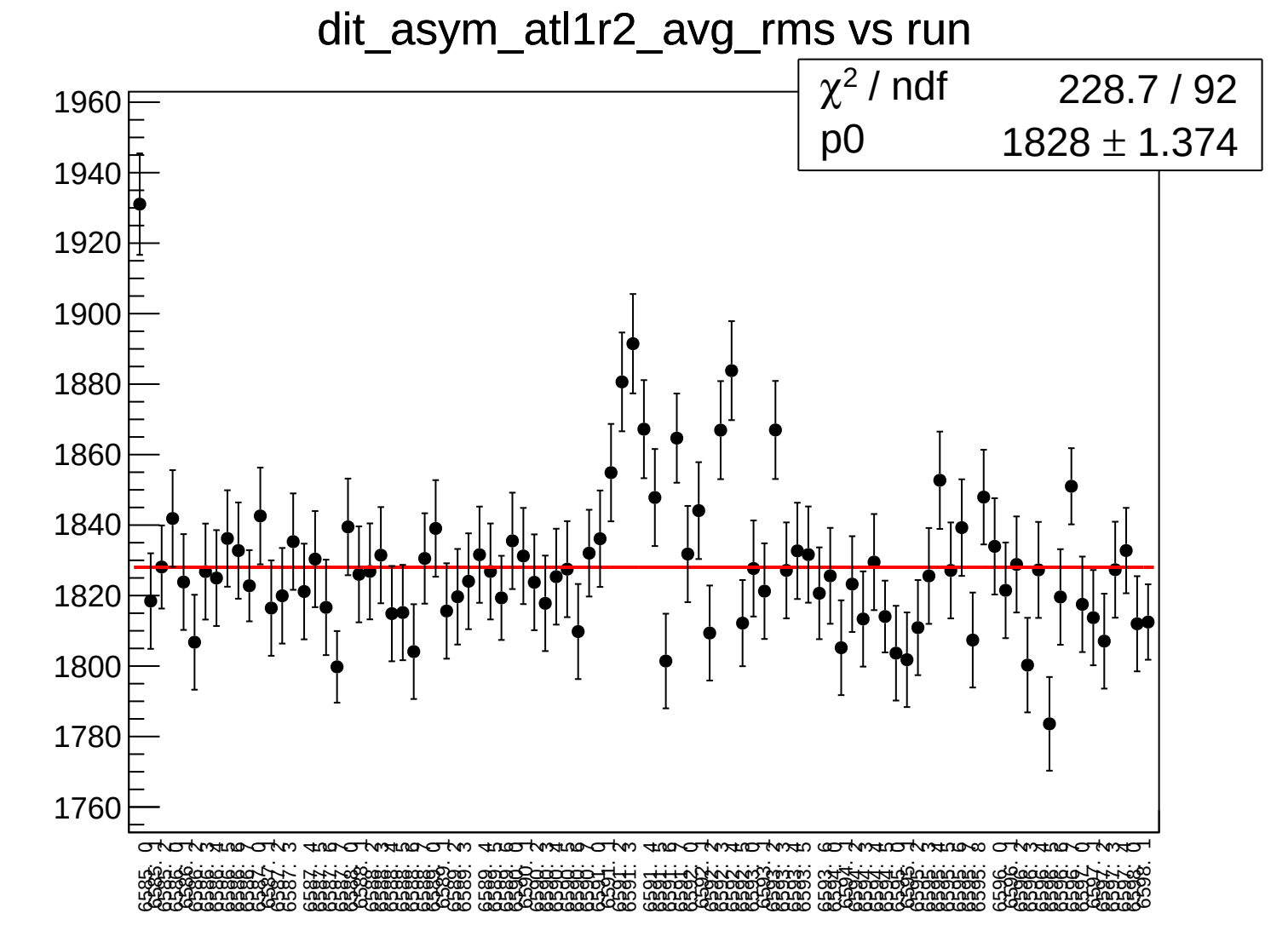

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 92.01 / 92
p0 2330 ± 4719
pull
Entries 93
Mean 27.32
Std Dev 329.4

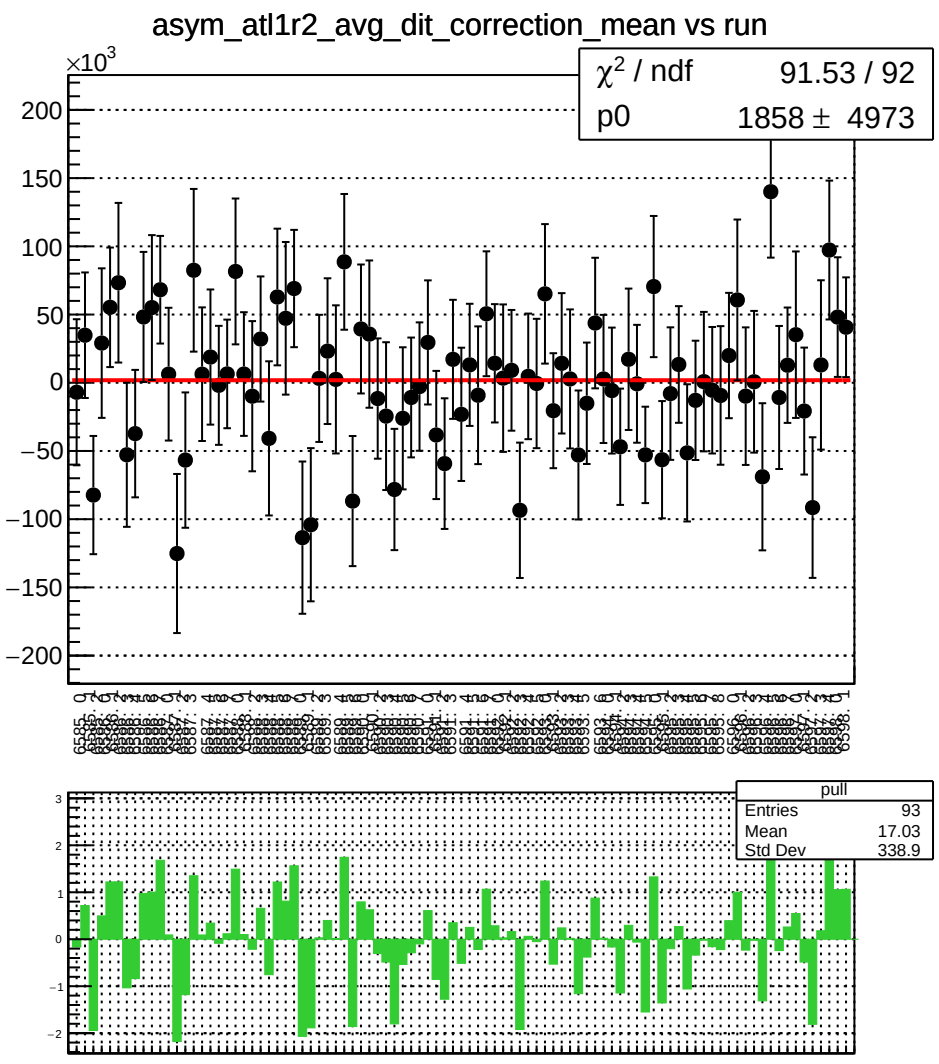

pull1D
Entries 93
Mean 0.0009487
Std Dev 0.9947

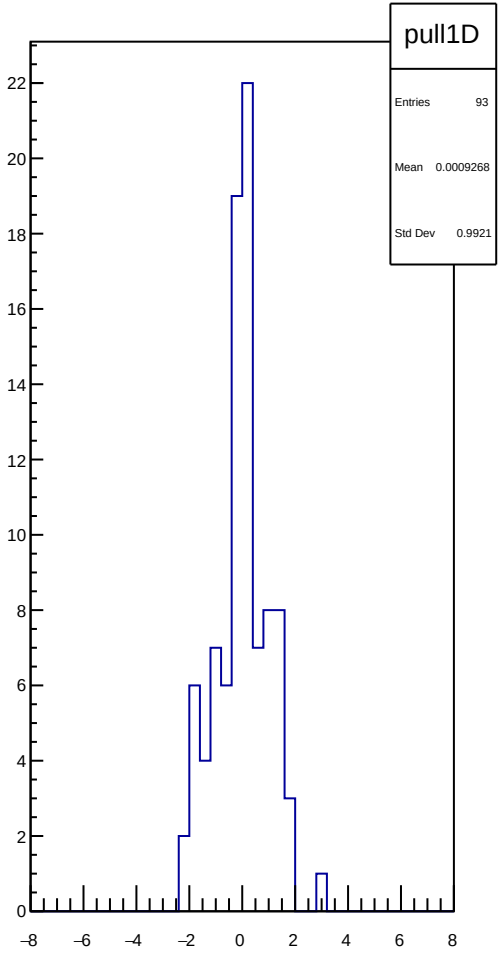

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.564e+04 / 92
p0 4420 ± 3.337
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

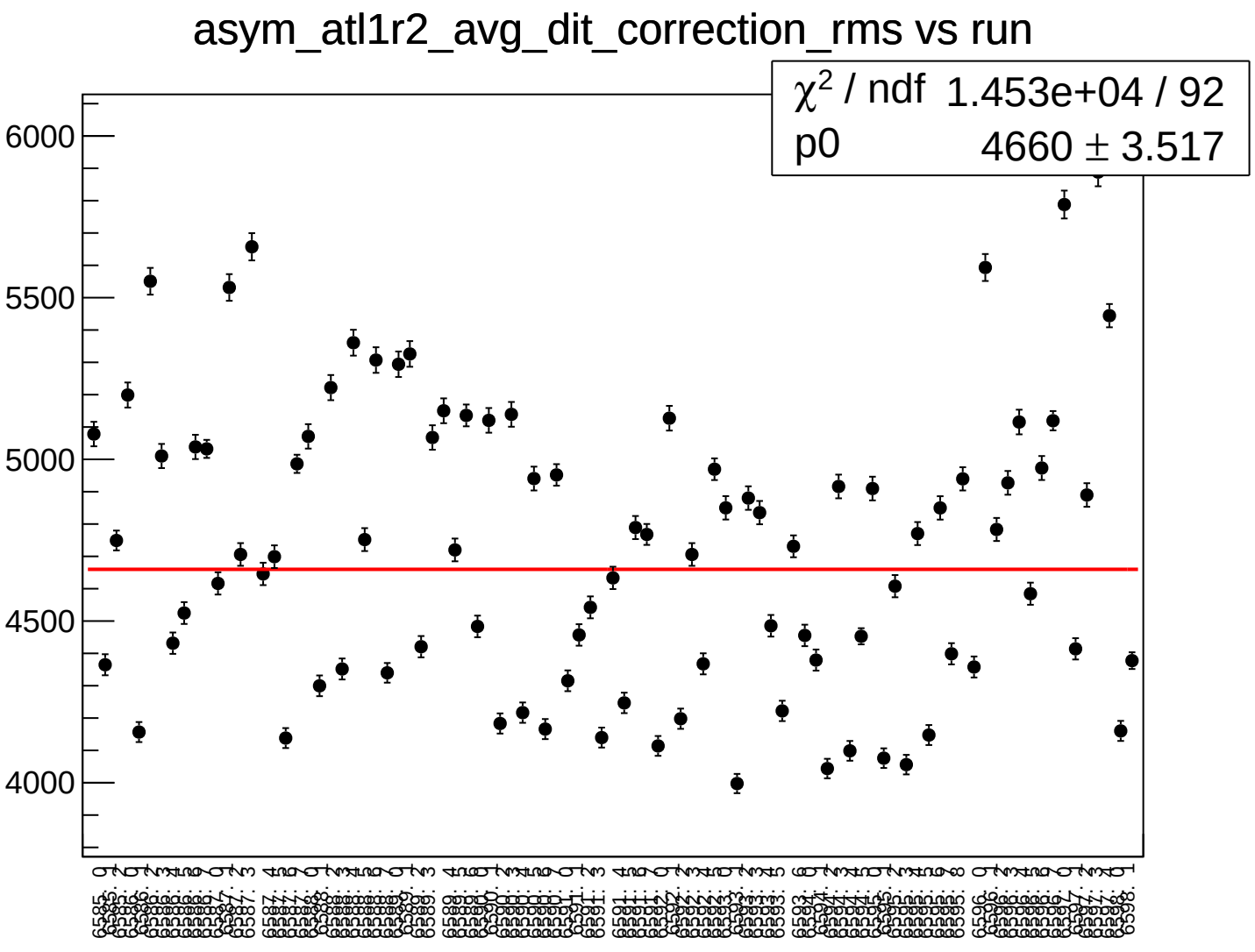

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 105 / 92
p0 −3076 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −206.6
Std Dev 0
2
1
0
−1
−2

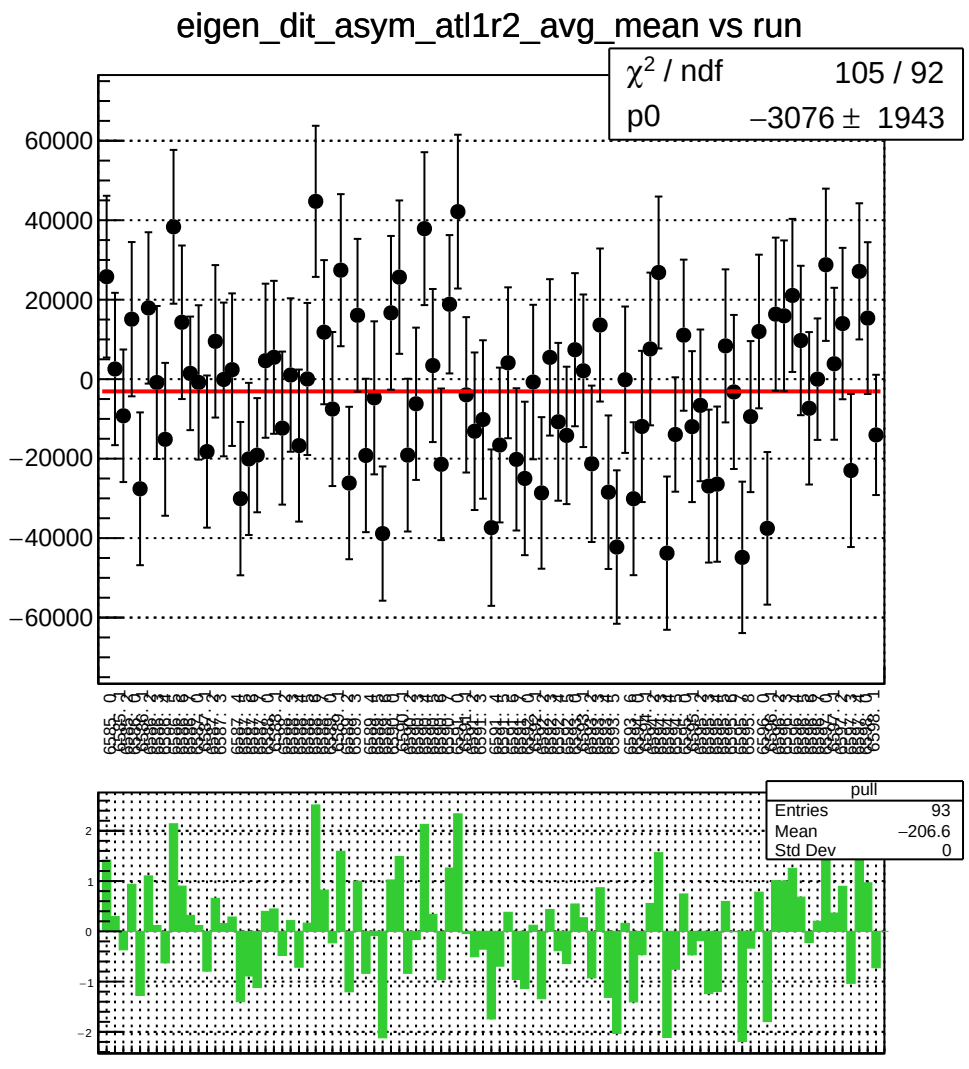

pull1D
Entries 93
Mean 0.007495
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

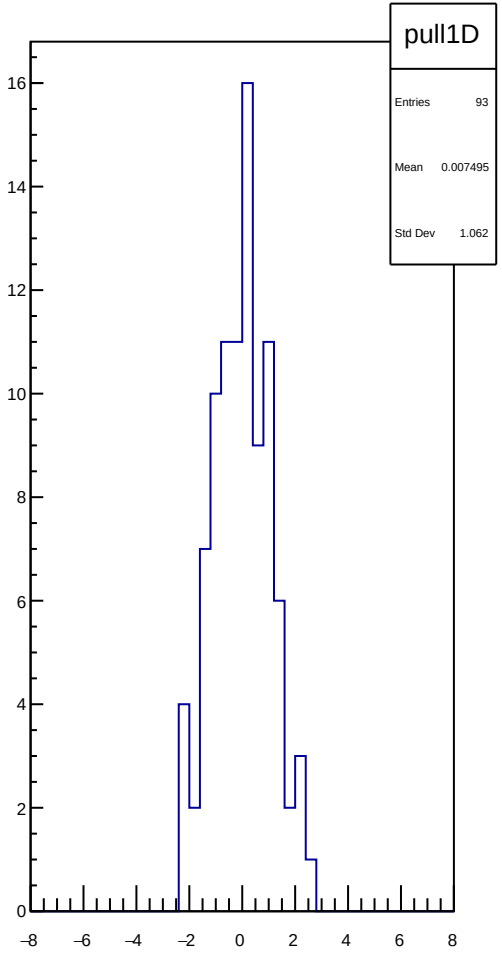

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 228.7 / 92
p0 1828 ± 1.374
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

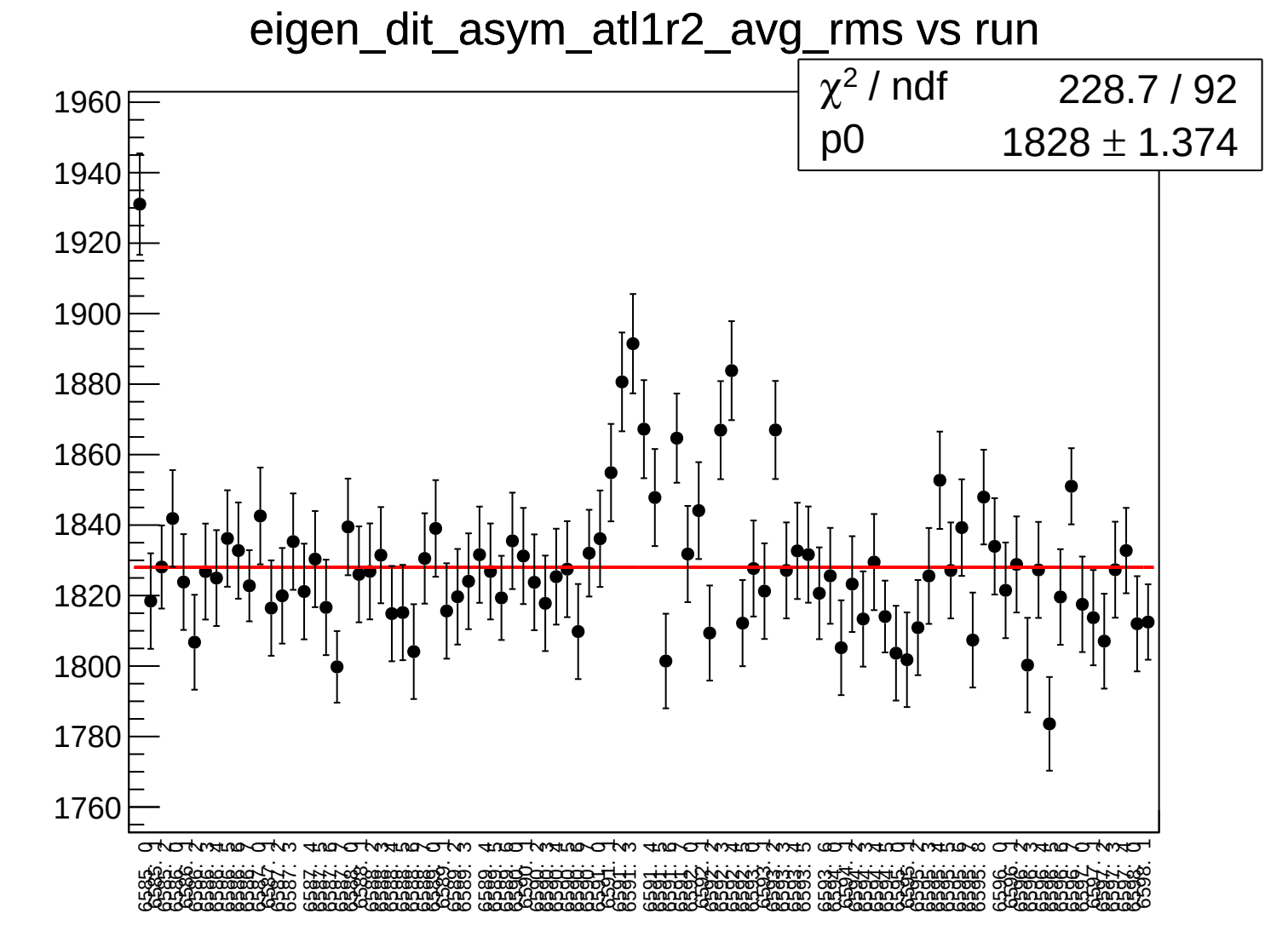

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 91.53 / 92
p0 1858 ± 4973
pull
Entries 93
Mean 17.03
Std Dev 338.9

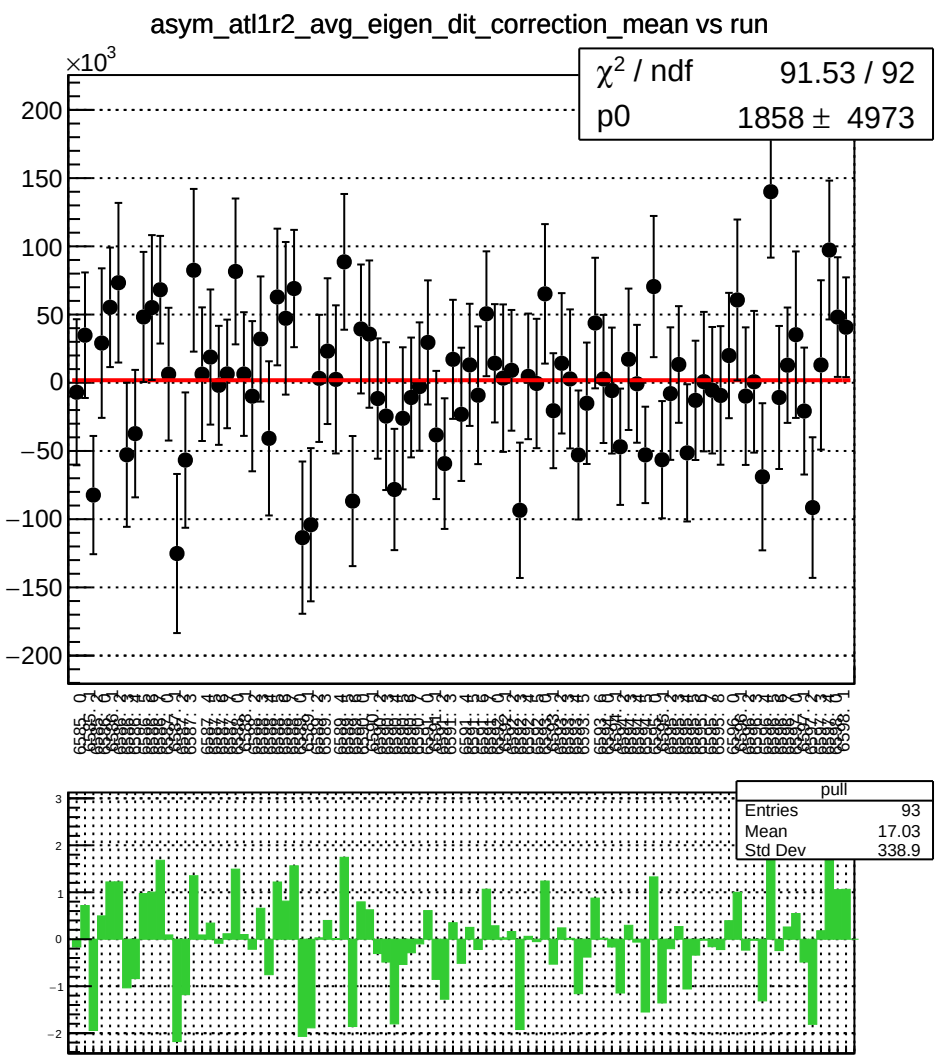

pull1D
Entries 93
Mean 0.0009268
Std Dev 0.9921

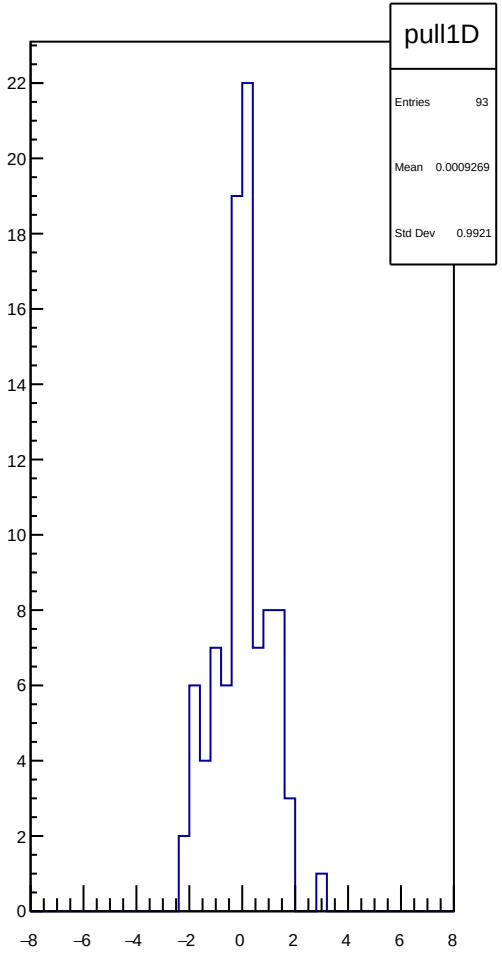

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 1.453e+04 / 92
p0 4660 ± 3.517
6000
5500
5000
4500
4000

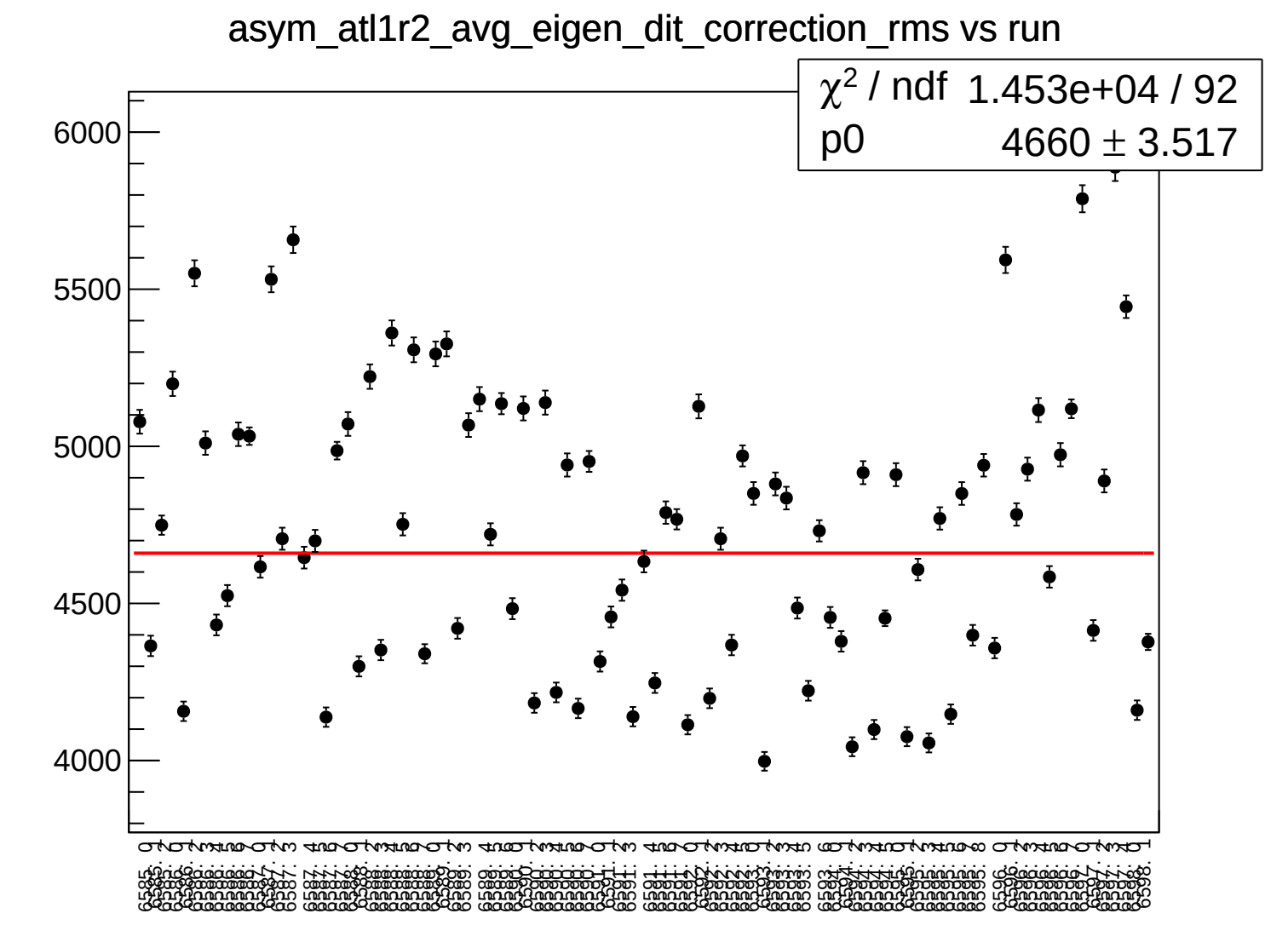

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 105 / 92
p0 −3076 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −206.6
Std Dev 0
2
1
0
−1
−2

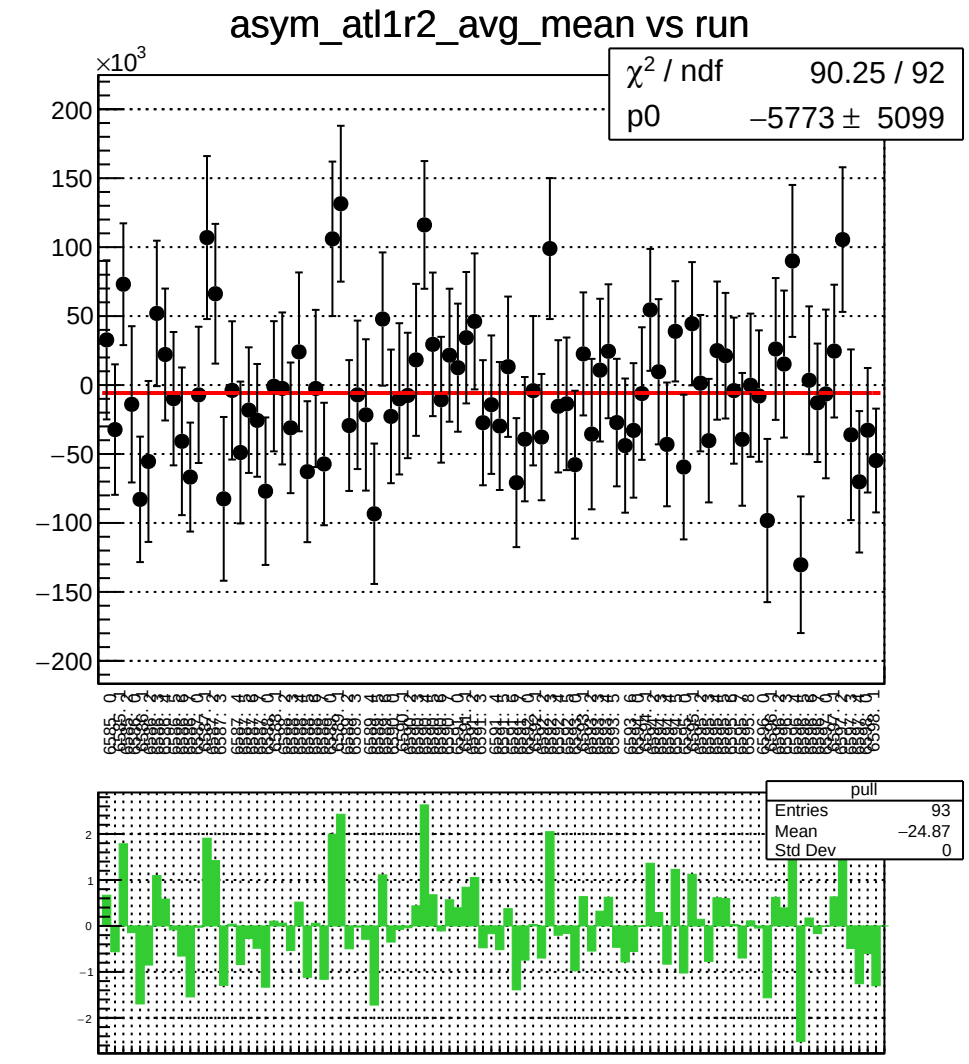

pull1D
Entries 93
Mean 0.007495
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

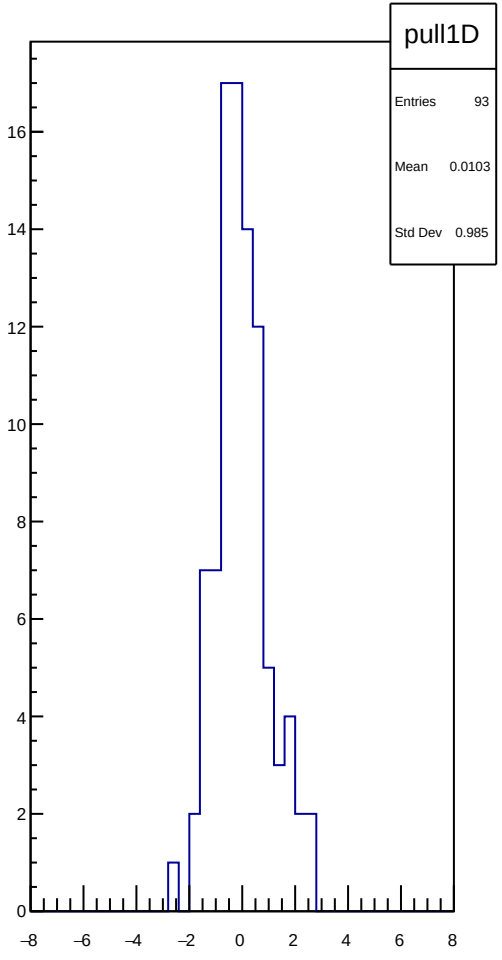

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 228.7 / 92
p0 1828 ± 1.374
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

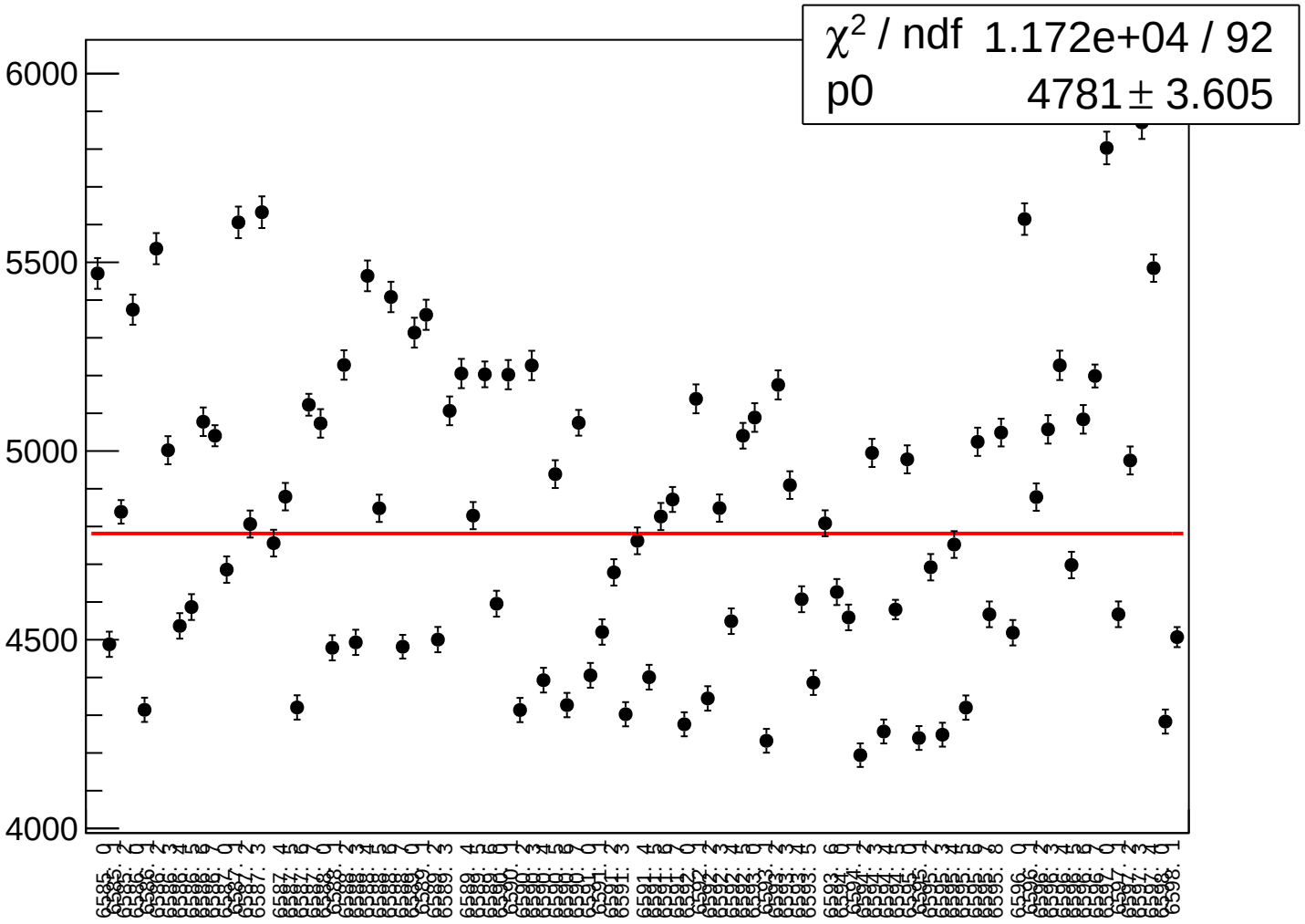

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.53 / 92
p0 1858 ± 4973
pull
Entries 93
Mean 17.03
Std Dev 338.9

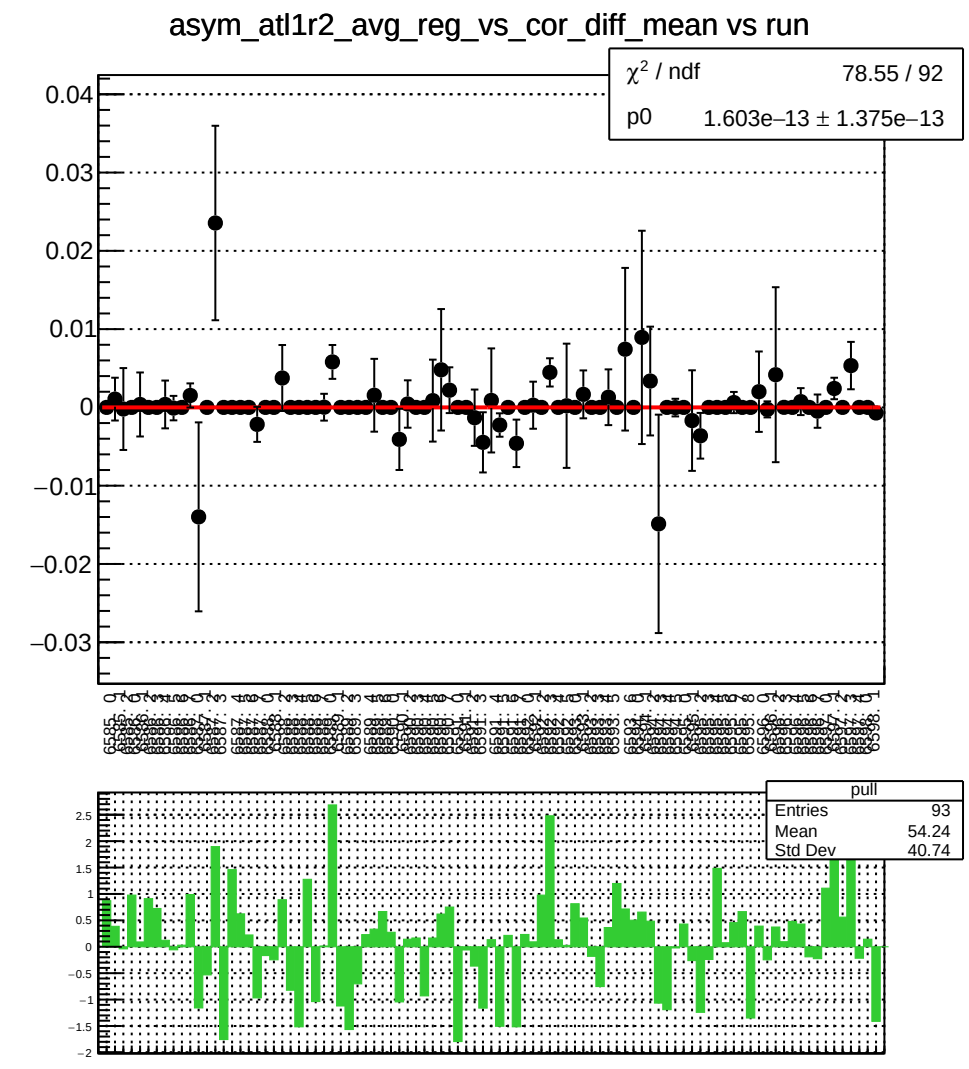

pull1D
Entries 93
Mean 0.0009269
Std Dev 0.9921

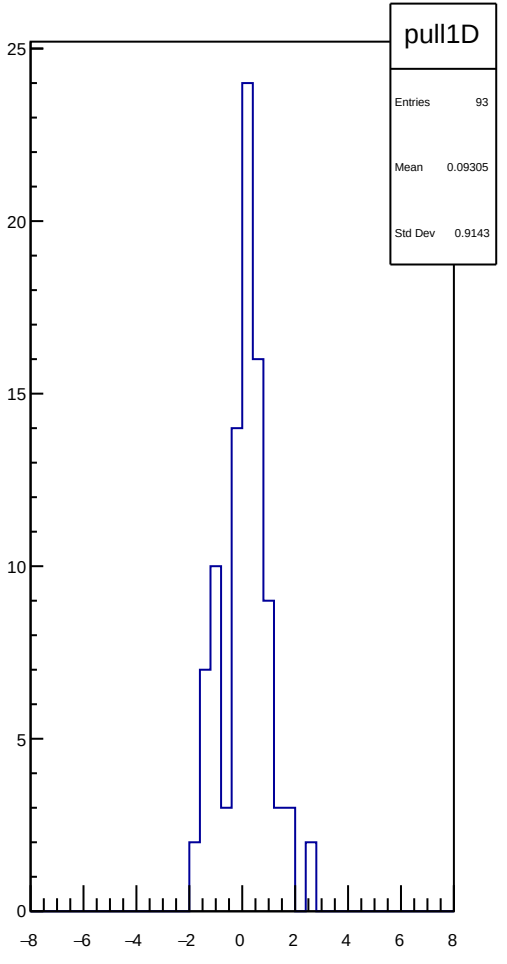

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.453e+04 / 92
p0 4660 ± 3.517
6000
5500
5000
4500
4000

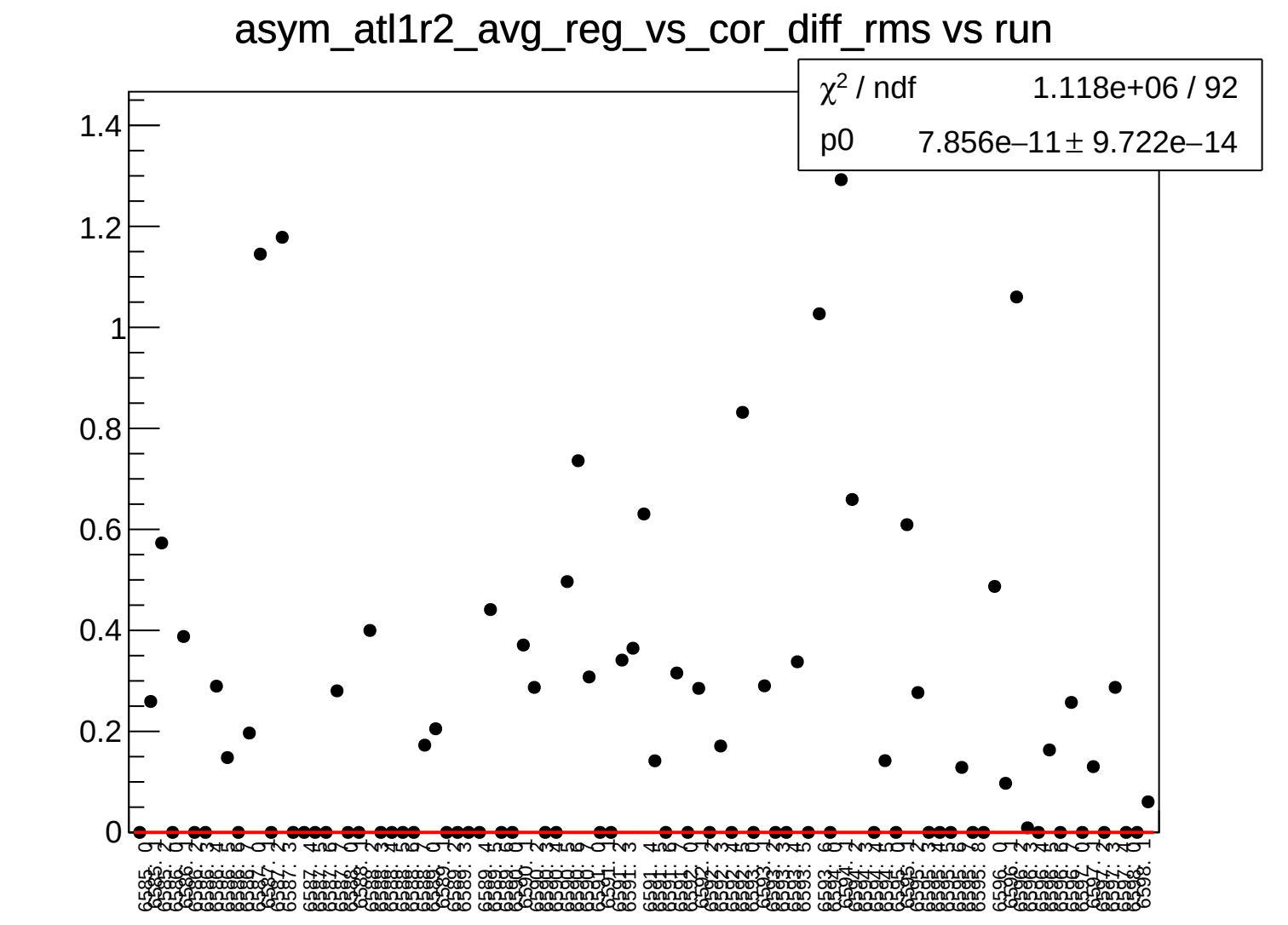

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 90.25 / 92
p0 −5773 ± 5099
pull
Entries 93
Mean −24.87
Std Dev 0

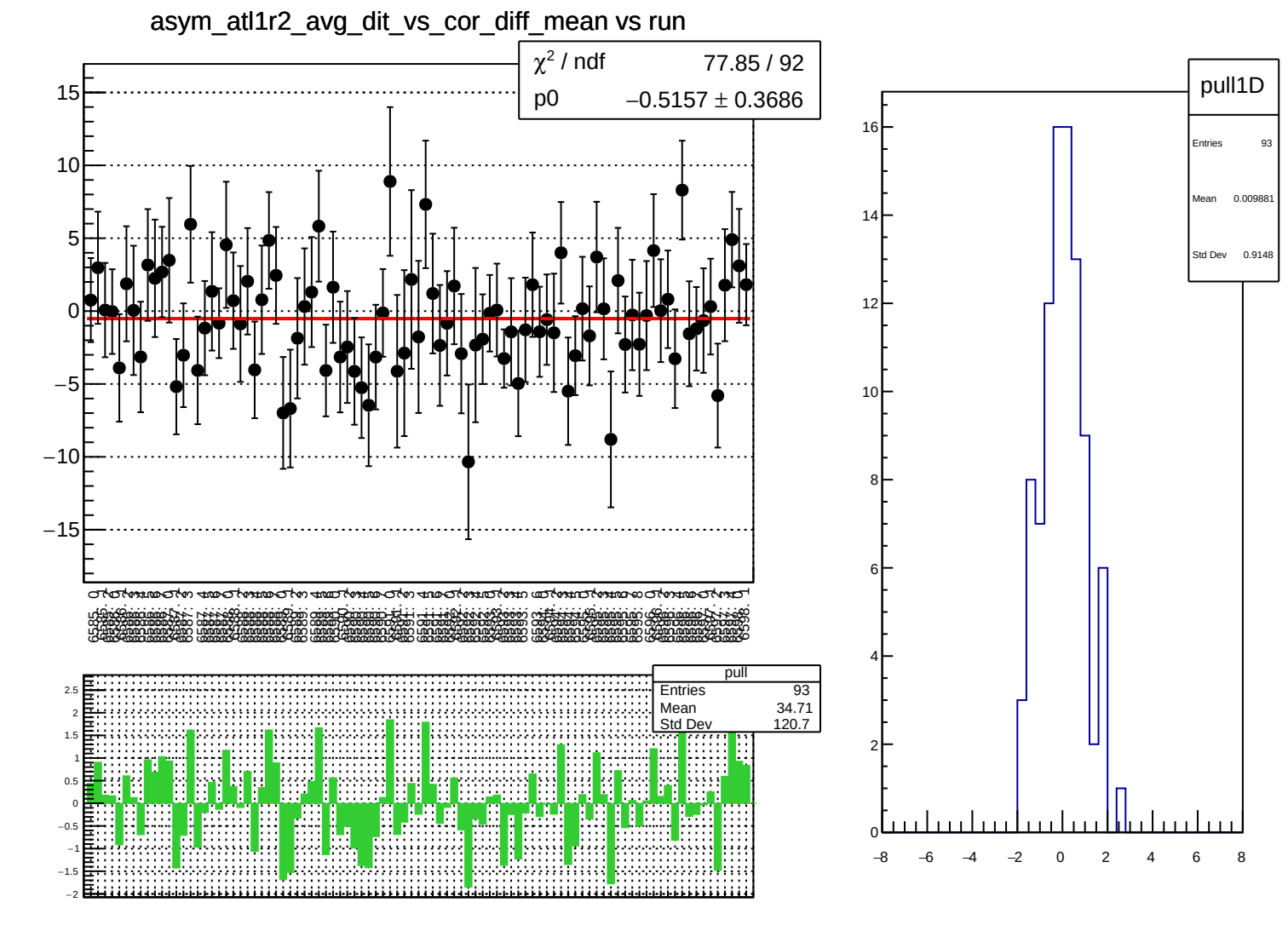

pull1D
Entries 93
Mean 0.0103
Std Dev 0.985

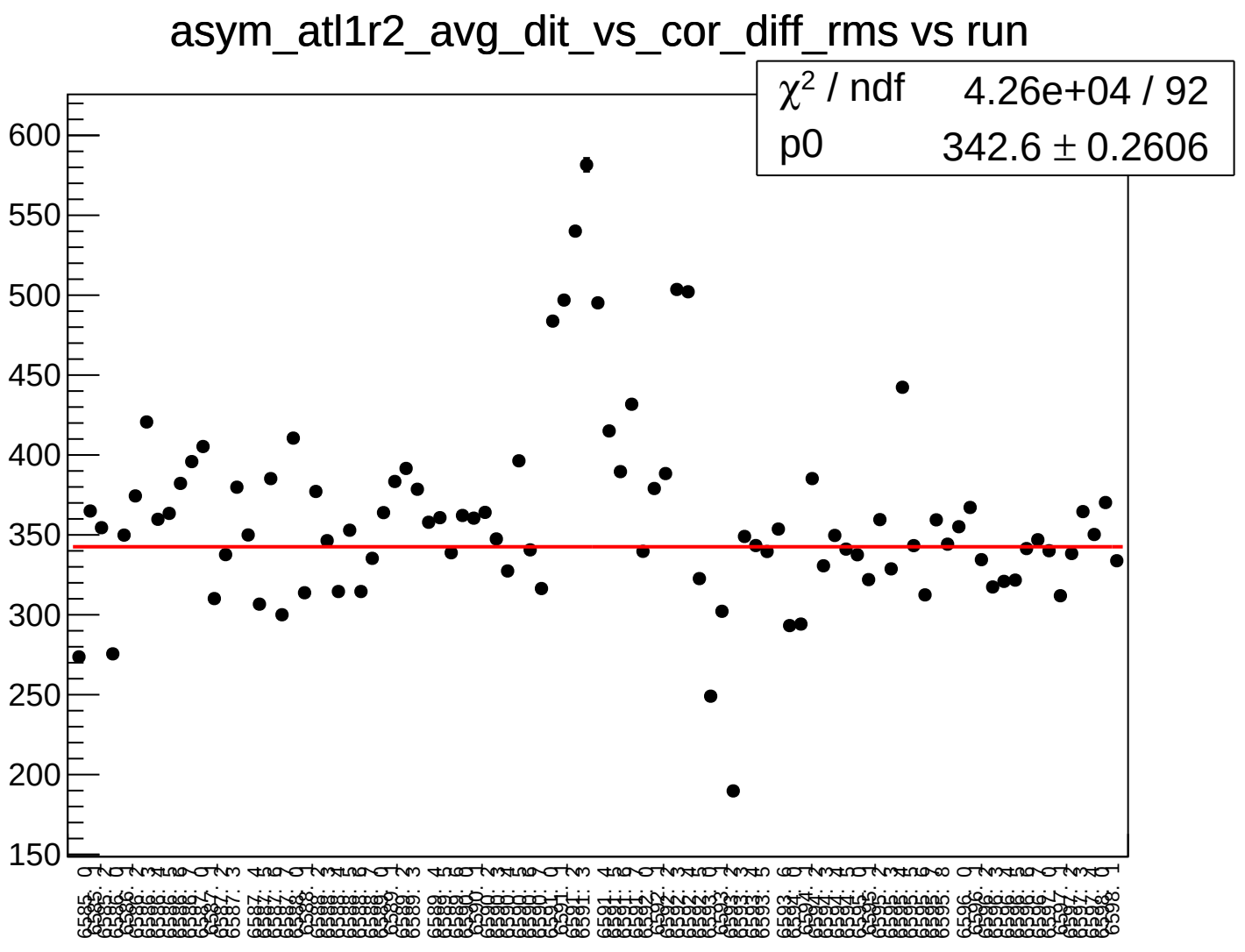

asym_atl1r2_avg_rms vs run
χ² / ndf 1.172e+04 / 92
p0 4781 ± 3.605
6000
5500
5000
4500
4000

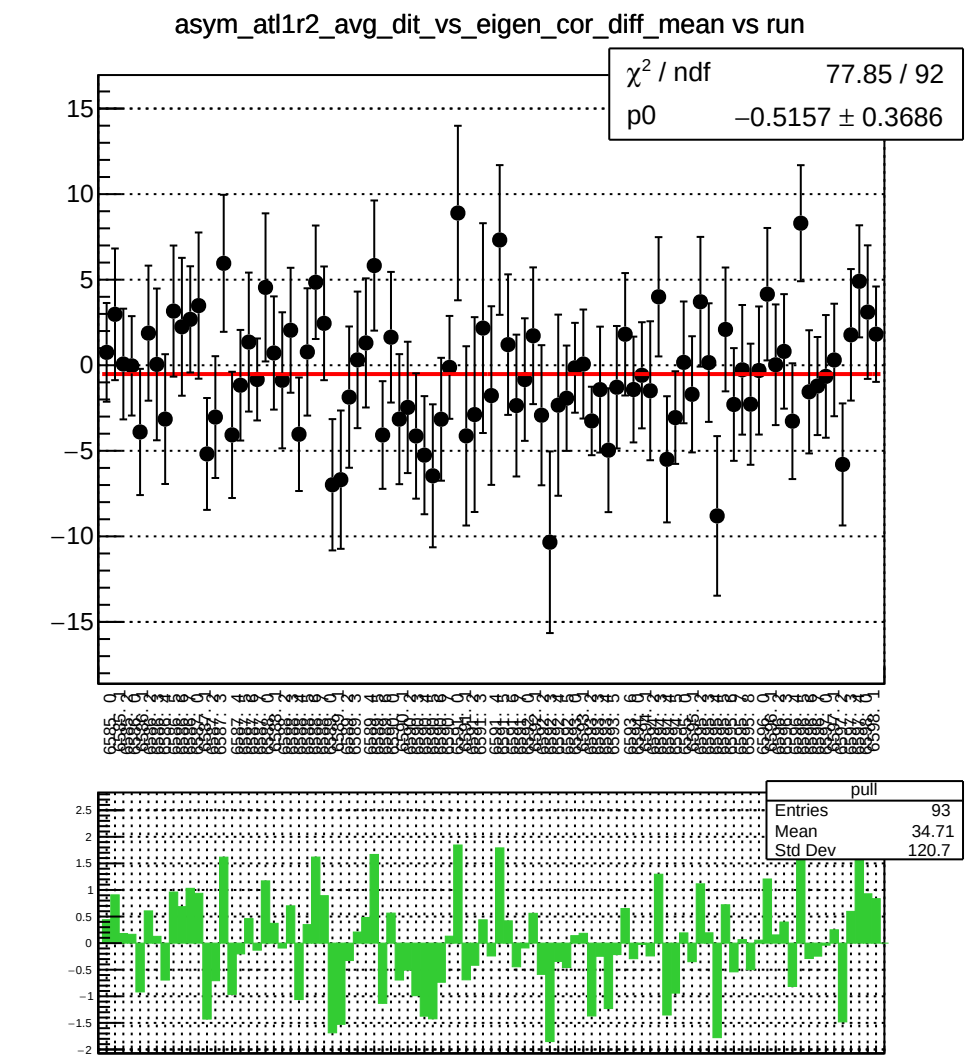

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.55 / 92
p0 1.603e−13 ± 1.375e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 54.24
Std Dev 40.74
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

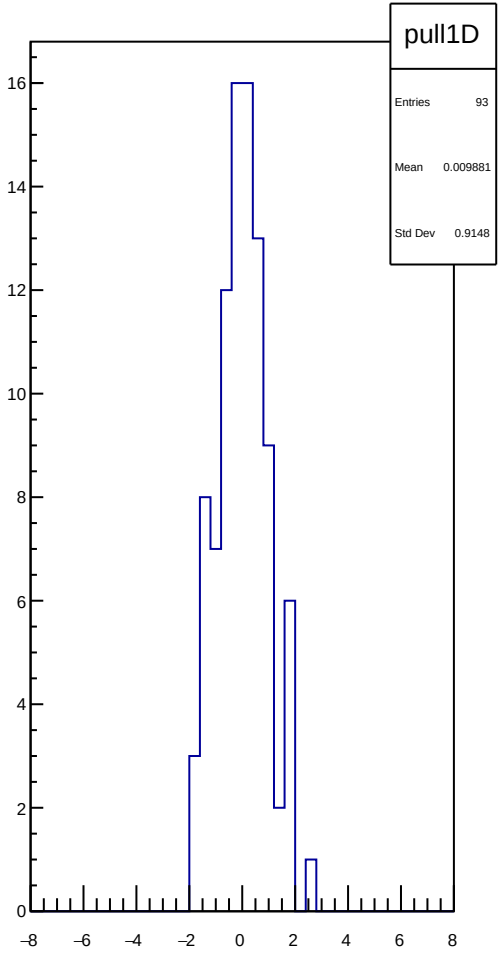

pull1D
Entries 93
Mean 0.09305
Std Dev 0.9143
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

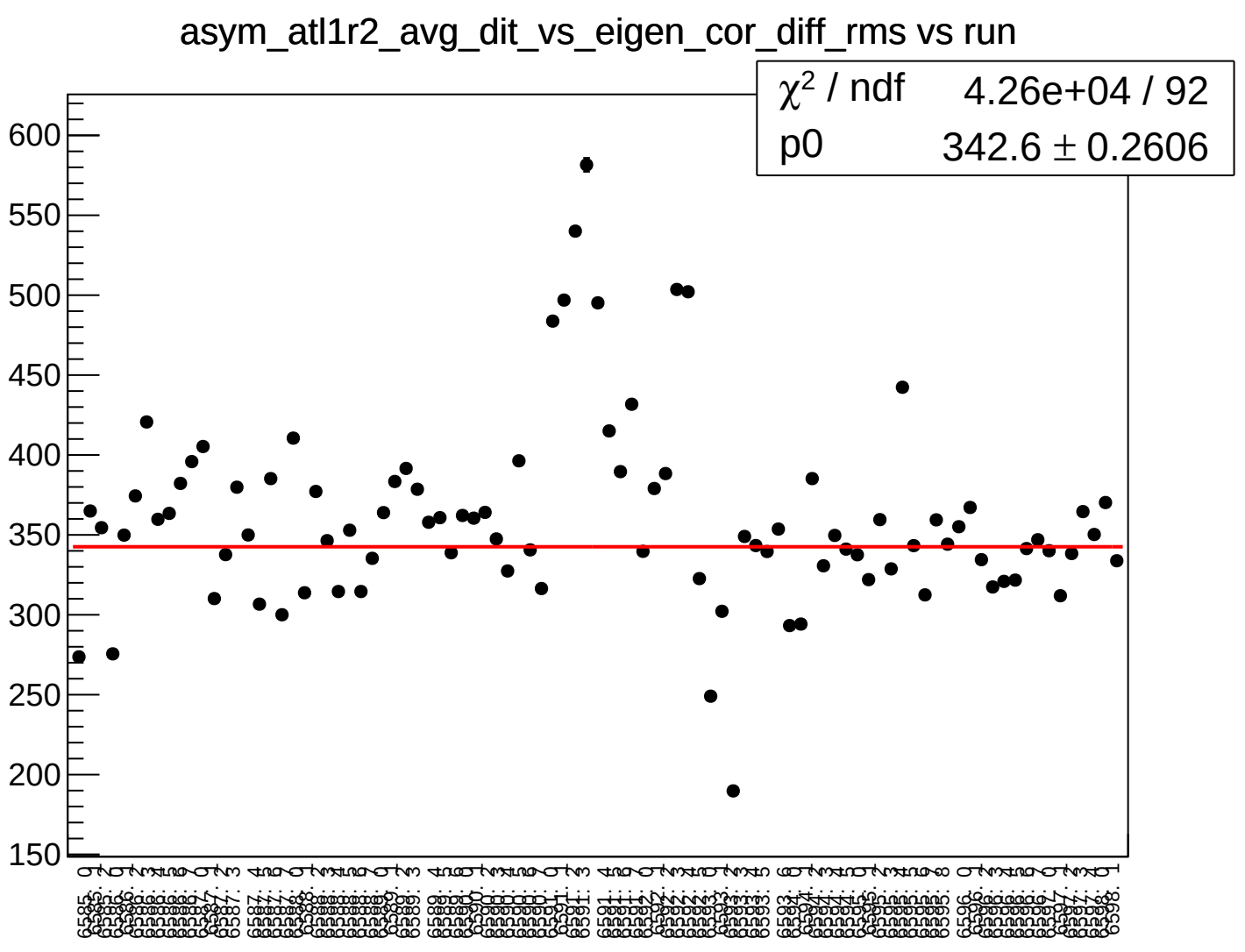

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.118e+06 / 92
p0 7.856e−11 ± 9.722e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

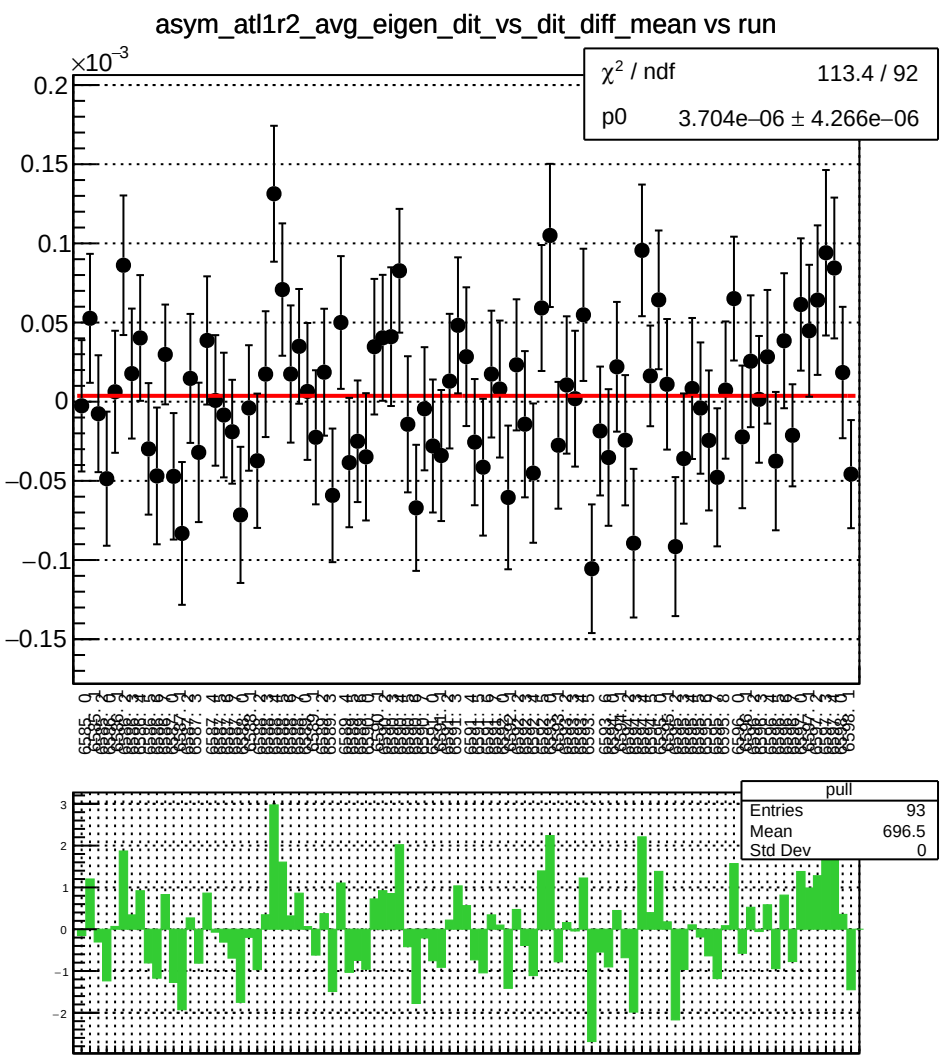

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.85 / 92
p0 −0.5157 ± 0.3686
pull
Entries 93
Mean 34.71
Std Dev 120.7
pull1D
Entries 93
Mean 0.009881
Std Dev 0.9148

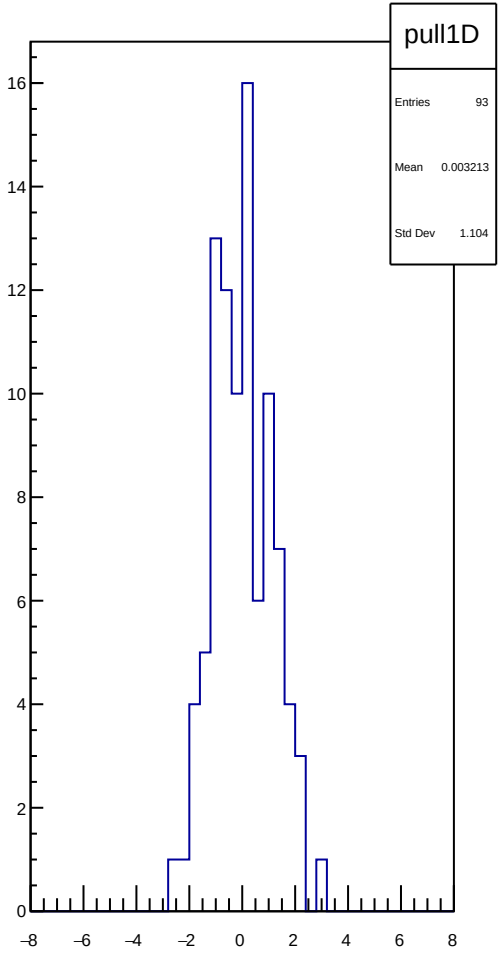

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.26e+04 / 92
p0 342.6 ± 0.2606
600
550
500
450
400
350
300
250
200
150

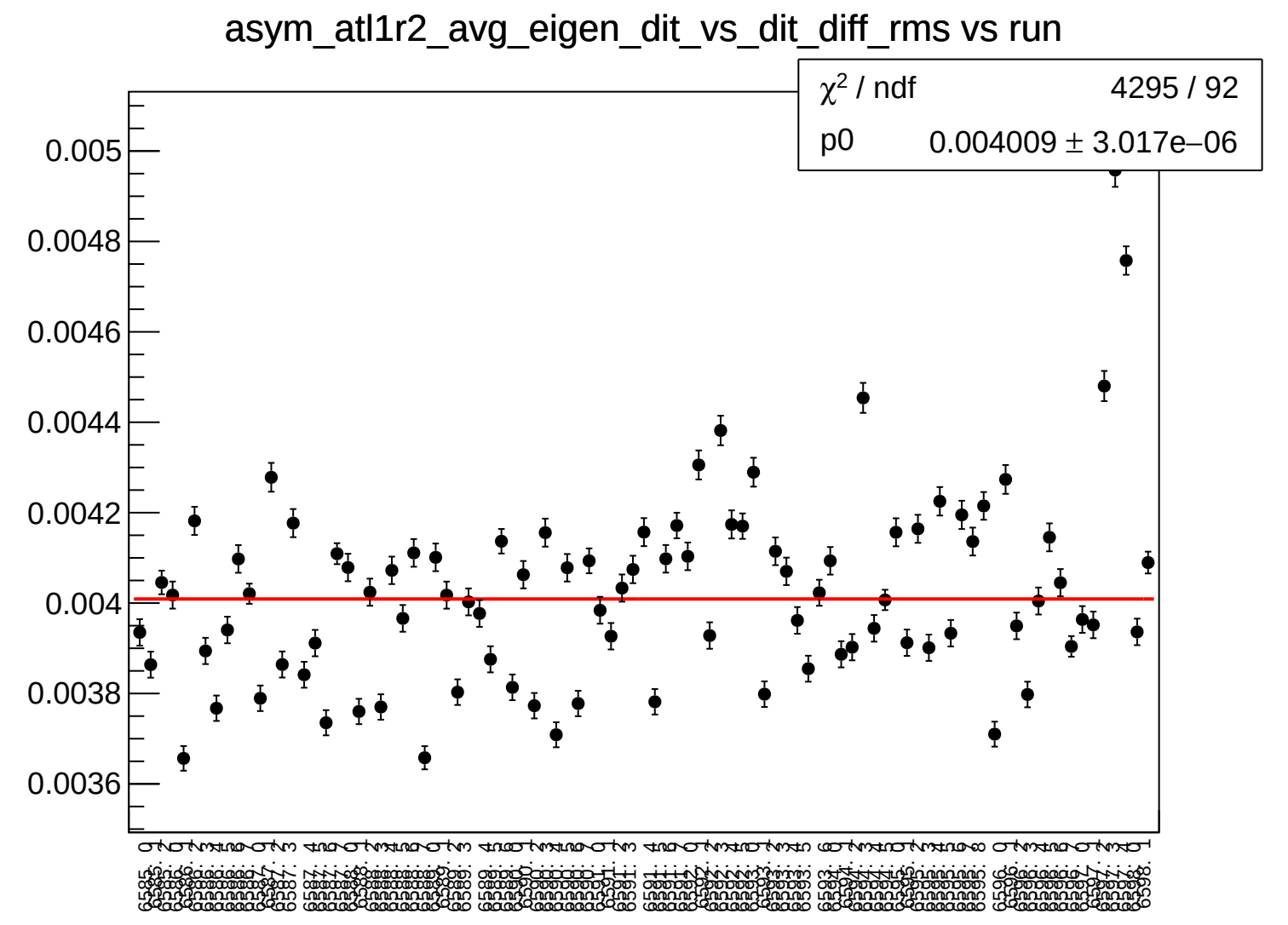

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.85 / 92
p0 −0.5157 ± 0.3686
pull
Entries 93
Mean 34.71
Std Dev 120.7

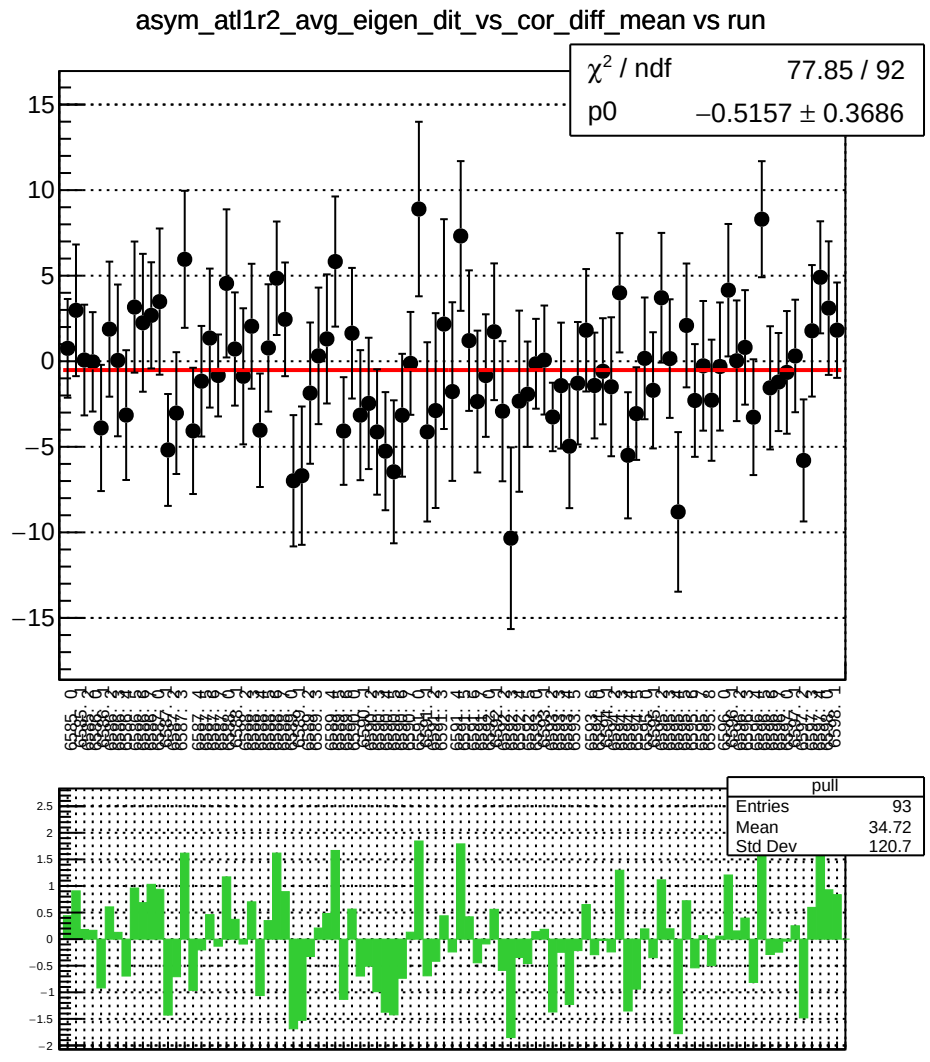

pull1D
Entries 93
Mean 0.009881
Std Dev 0.9148

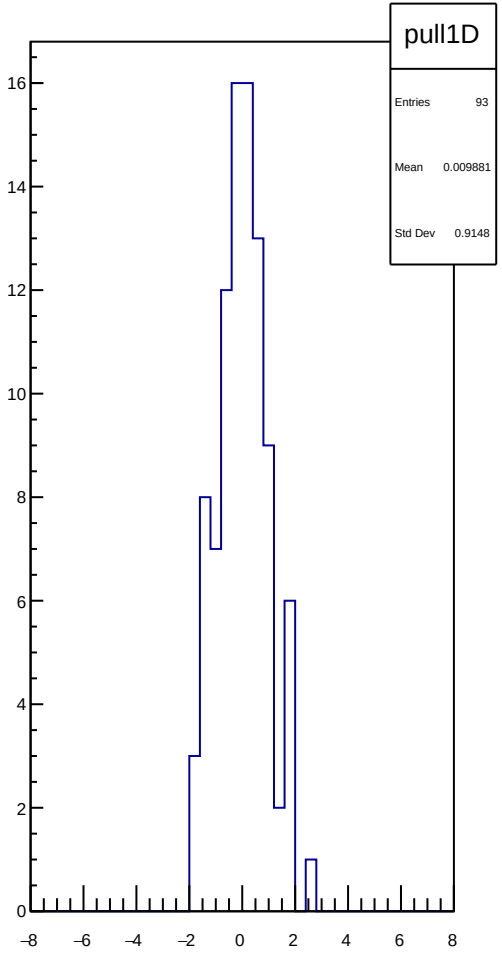

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.26e+04 / 92
p0 342.6 ± 0.2606
600
550
500
450
400
350
300
250
200
150

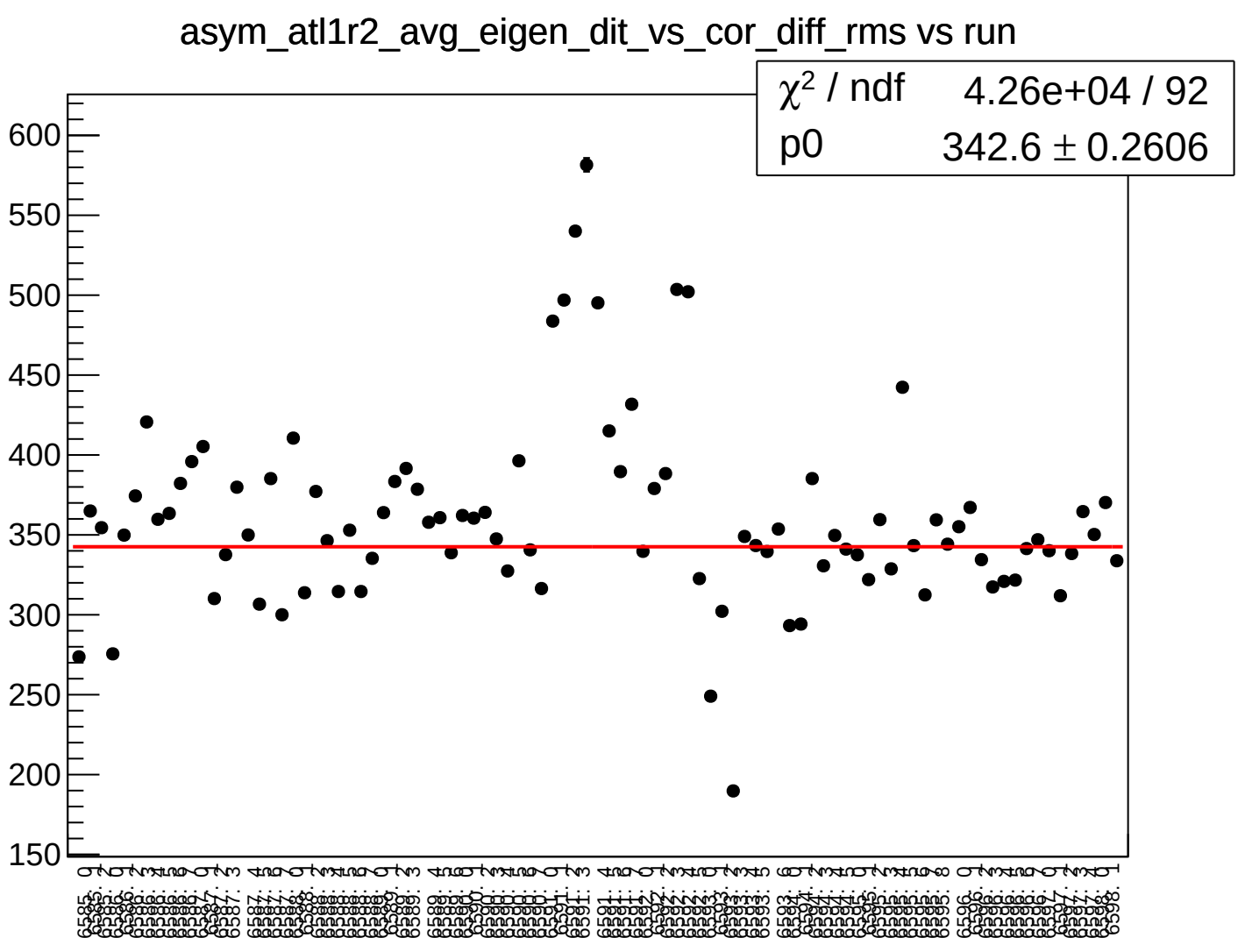

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.4 / 92
p0 3.704e−06 ± 4.266e−06
pull
Entries 93
Mean 696.5
Std Dev 0

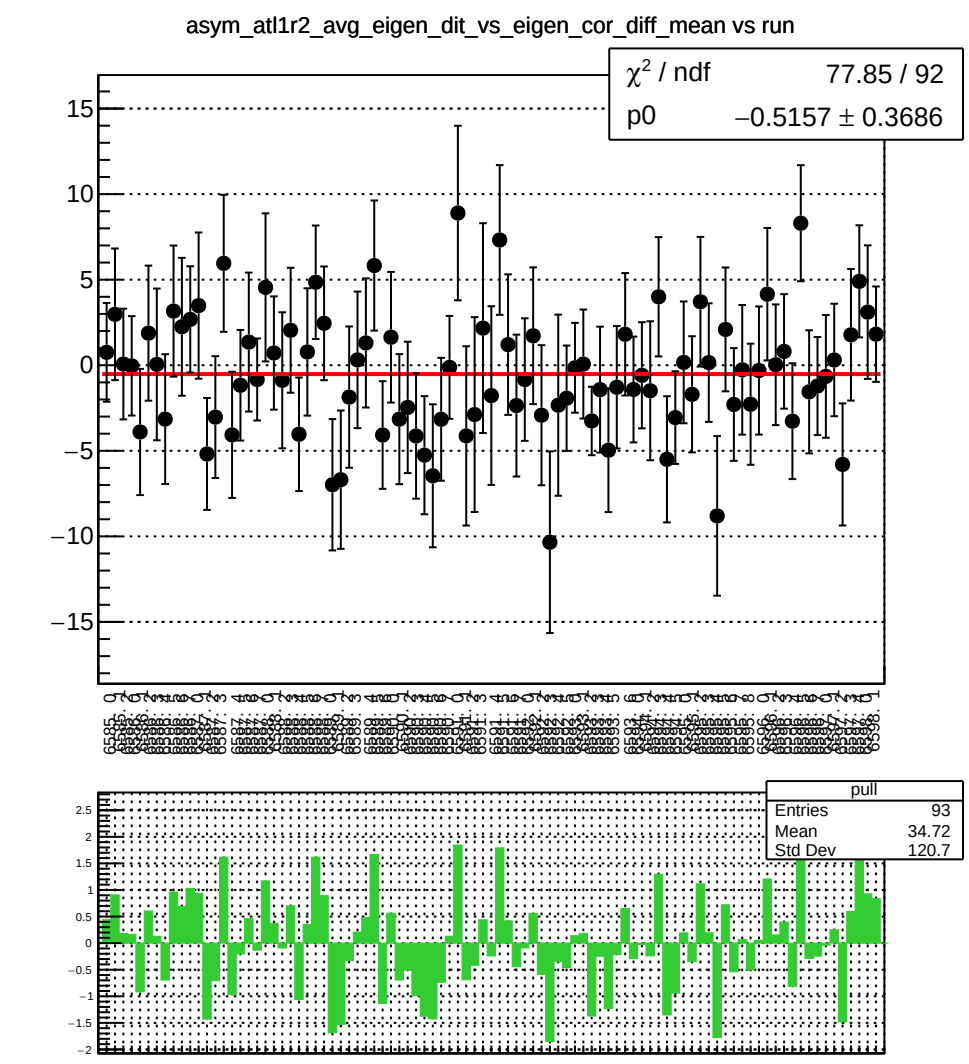

pull1D
Entries 93
Mean 0.003213
Std Dev 1.104

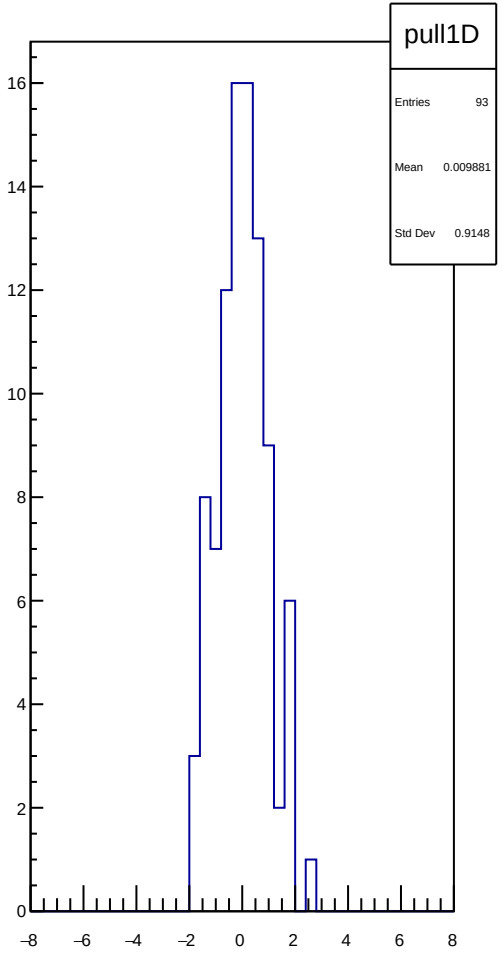

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4295 / 92
p0 0.004009 ± 3.017e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

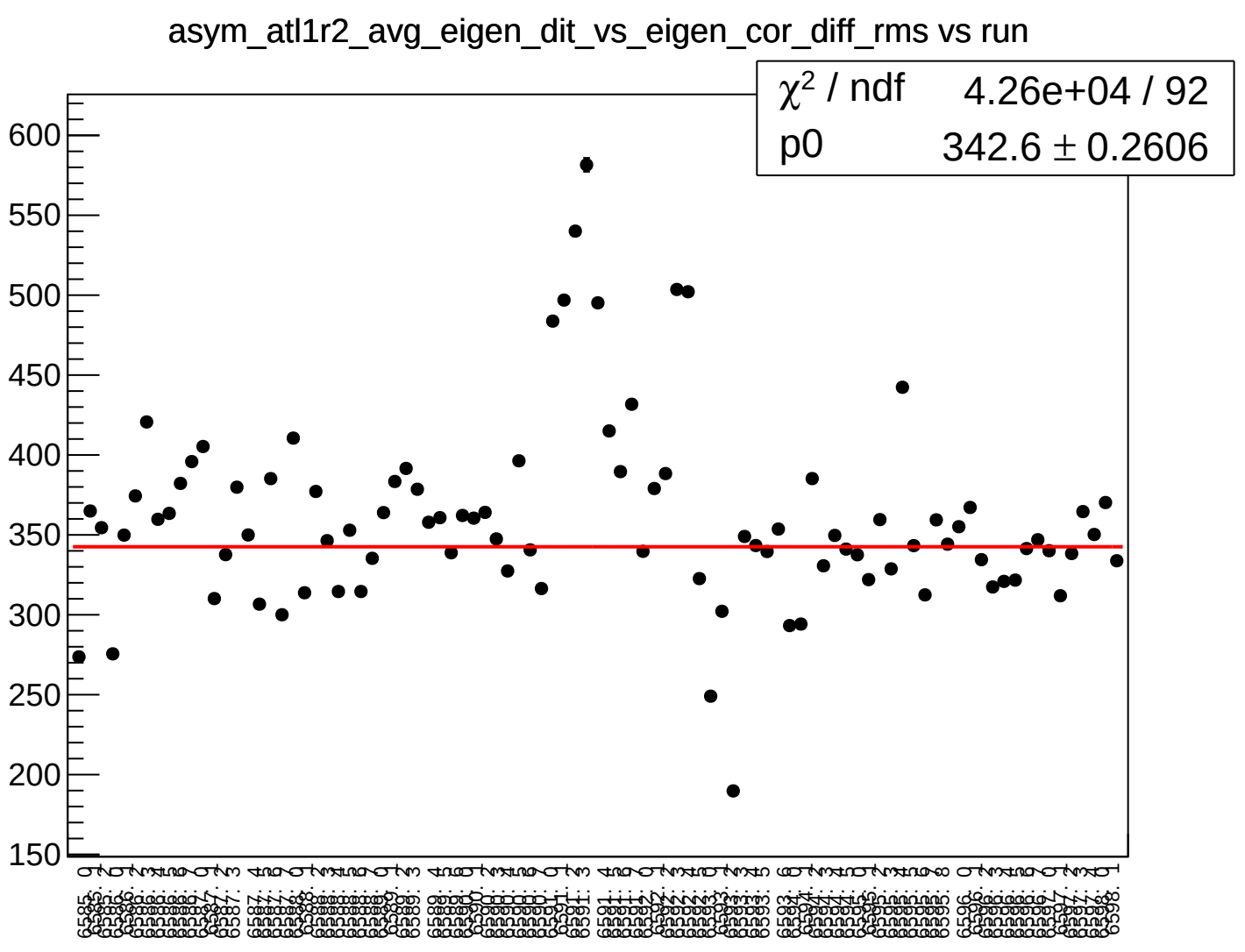

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.85 / 92
p0 −0.5157 ± 0.3686
pull
Entries 93
Mean 34.72
Std Dev 120.7

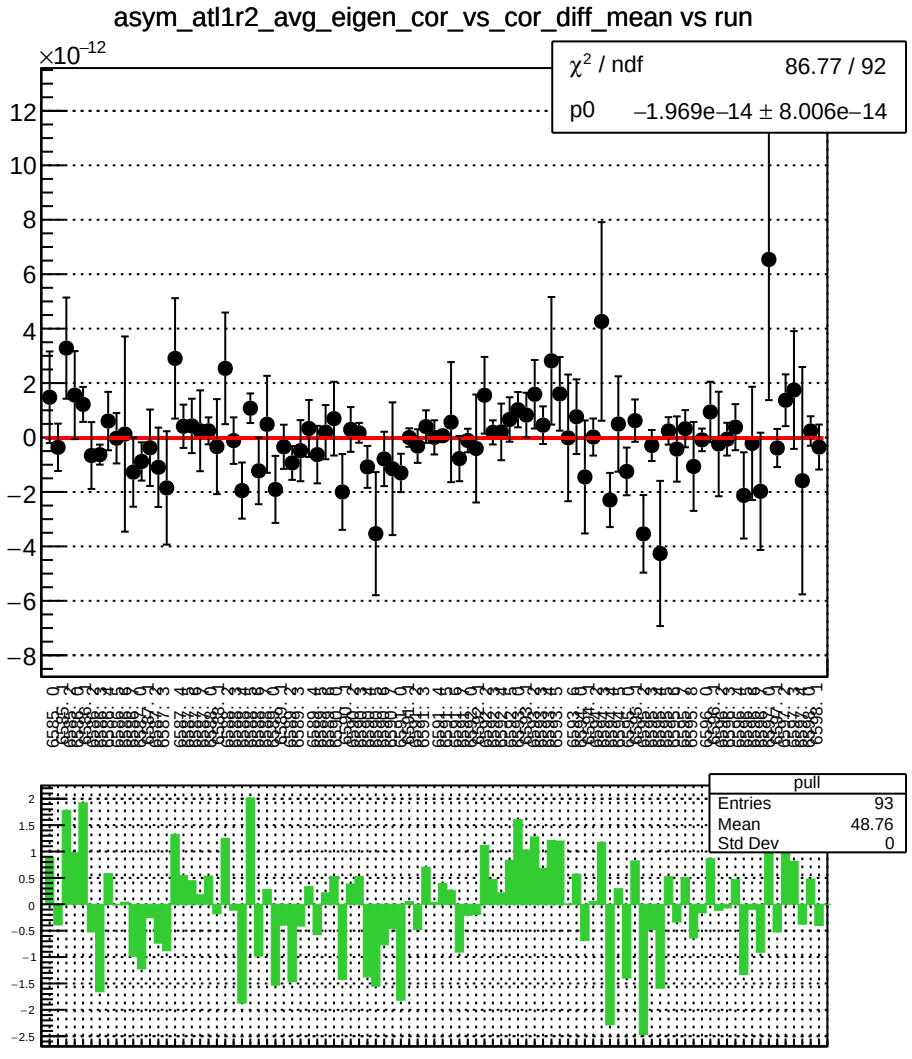

pull1D
Entries 93
Mean 0.009881
Std Dev 0.9148

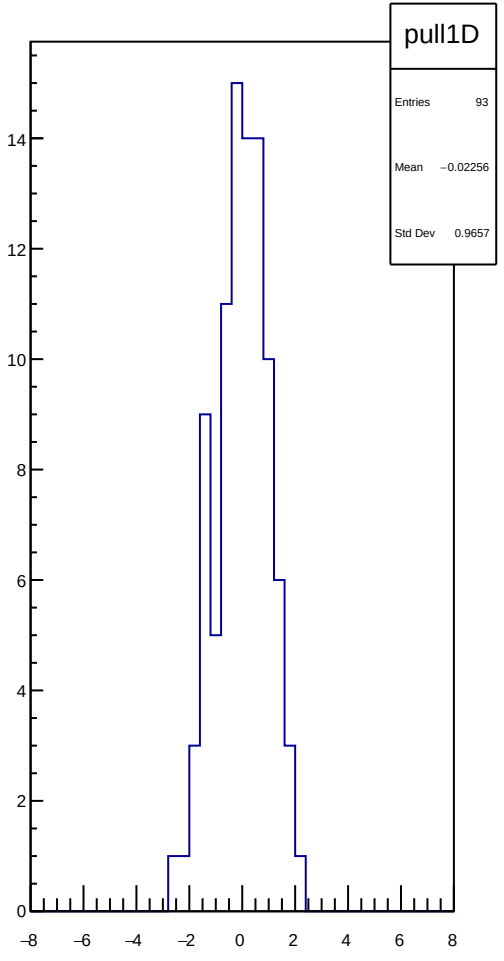

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.26e+04 / 92
p0 342.6 ± 0.2606
600
550
500
450
400
350
300
250
200
150

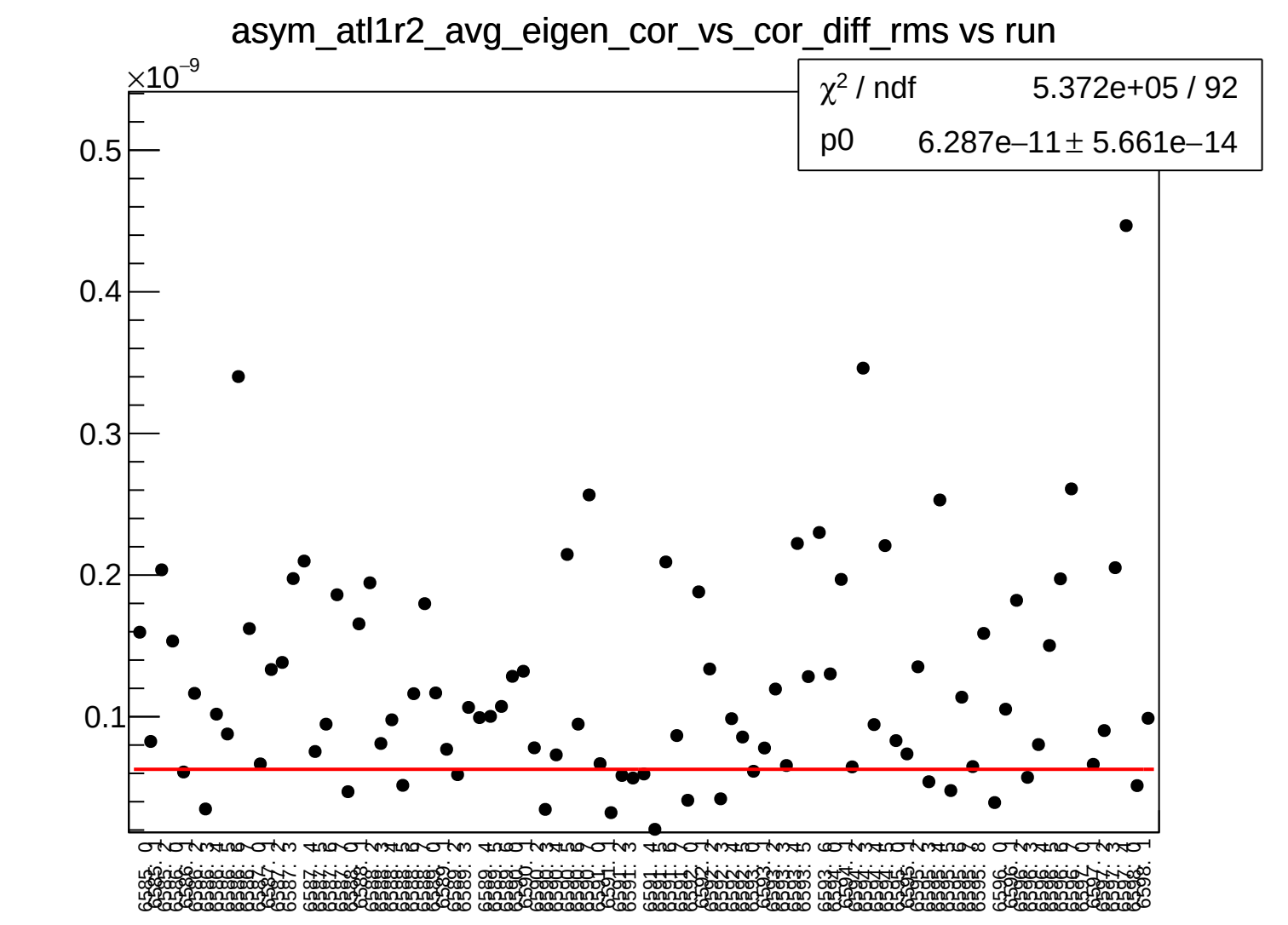

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.85 / 92
p0 −0.5157 ± 0.3686
pull
Entries 93
Mean 34.72
Std Dev 120.7

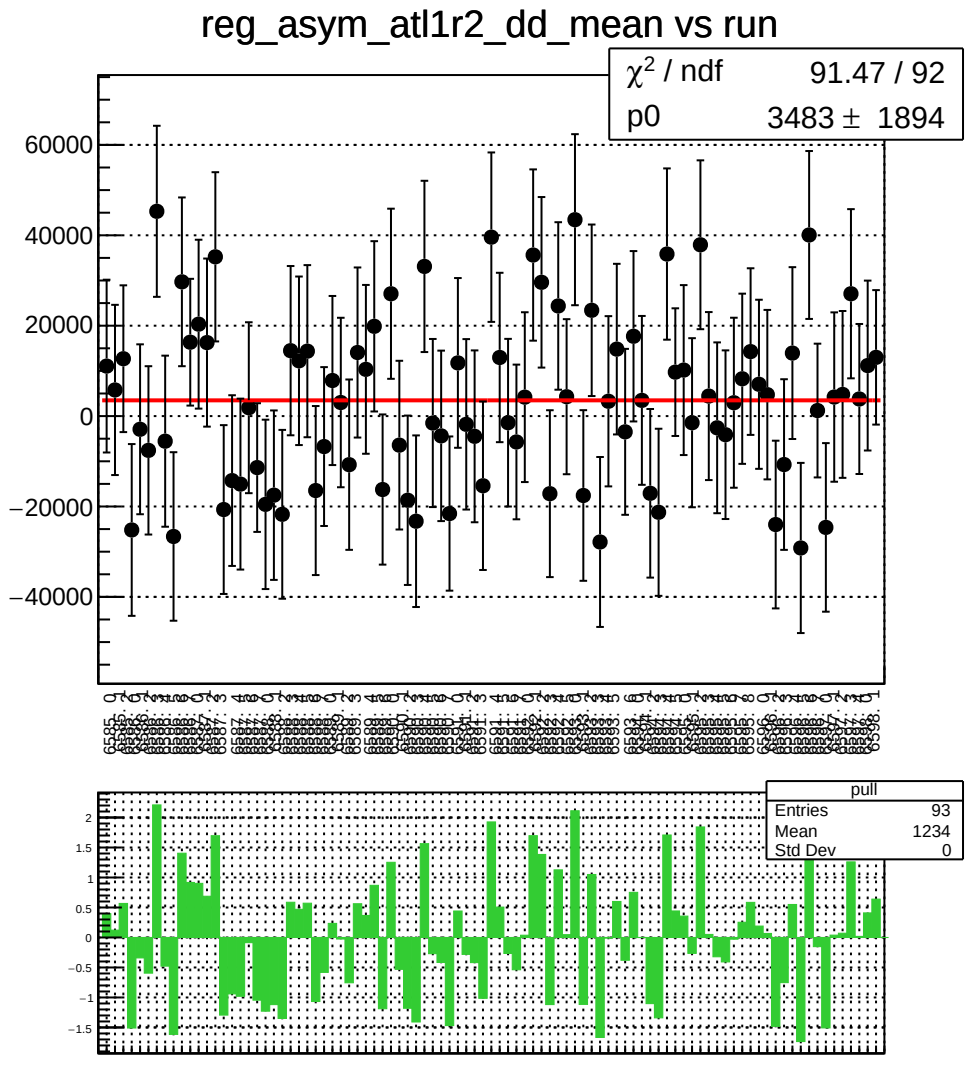

pull1D
Entries 93
Mean 0.009881
Std Dev 0.9148

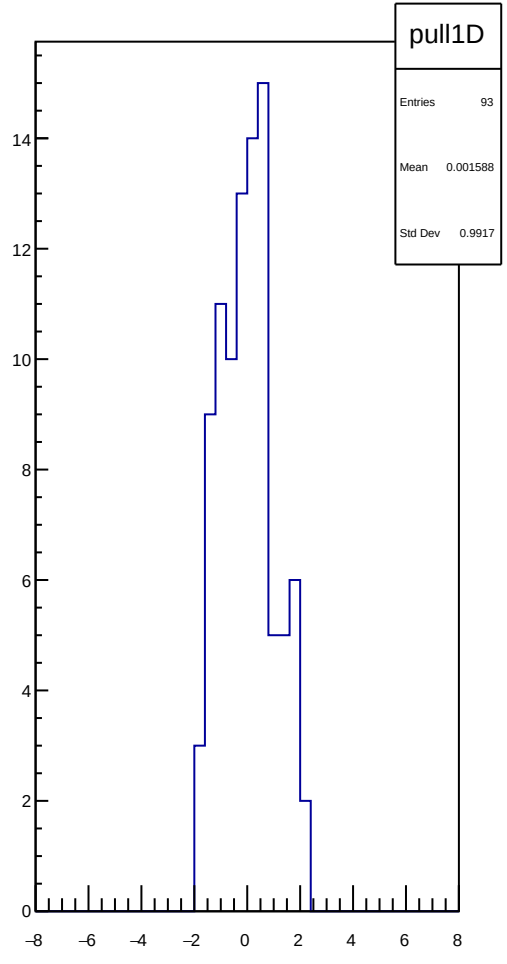

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.26e+04 / 92
p0 342.6 ± 0.2606
600
550
500
450
400
350
300
250
200
150

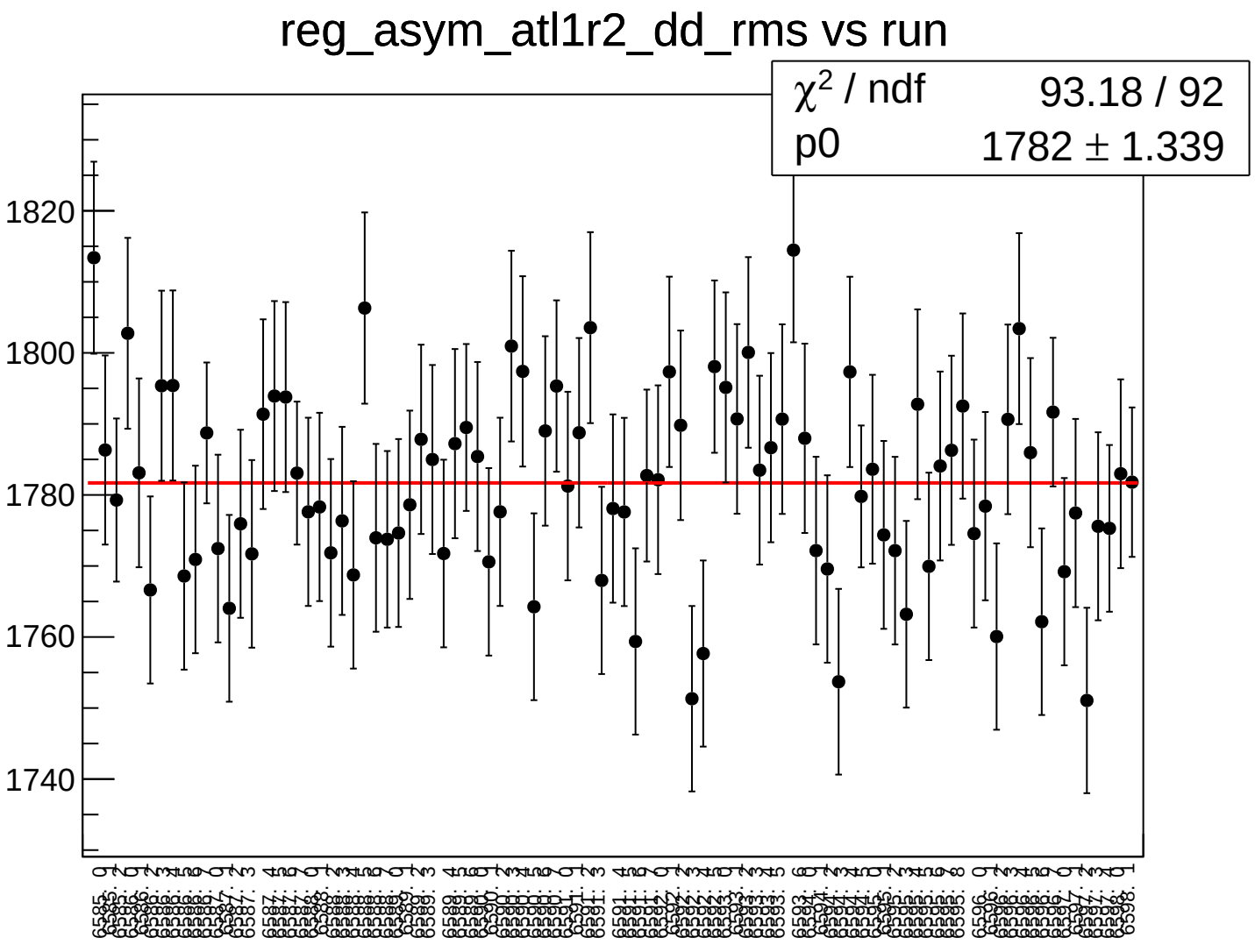

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.77 / 92
p0 −1.969e−14 ± 8.006e−14
pull
Entries 93
Mean 48.76
Std Dev 0

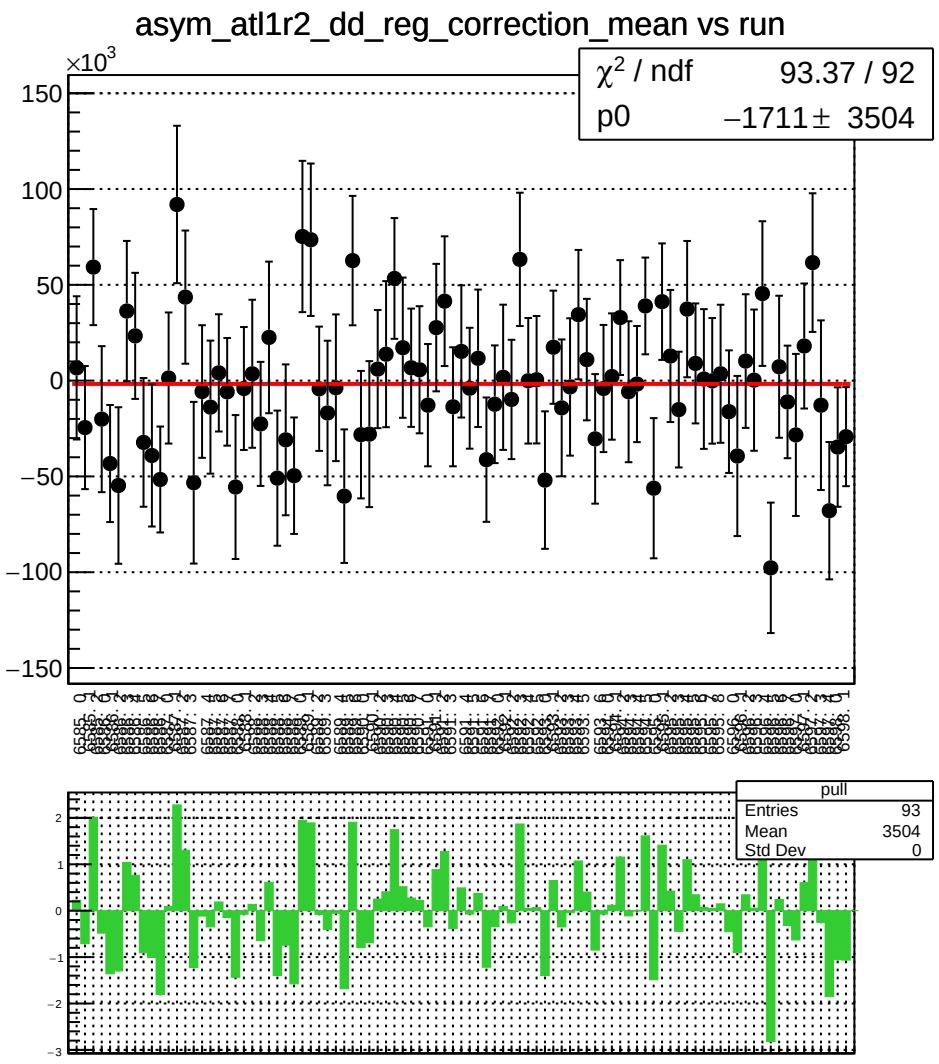

pull1D
Entries 93
Mean −0.02256
Std Dev 0.9657

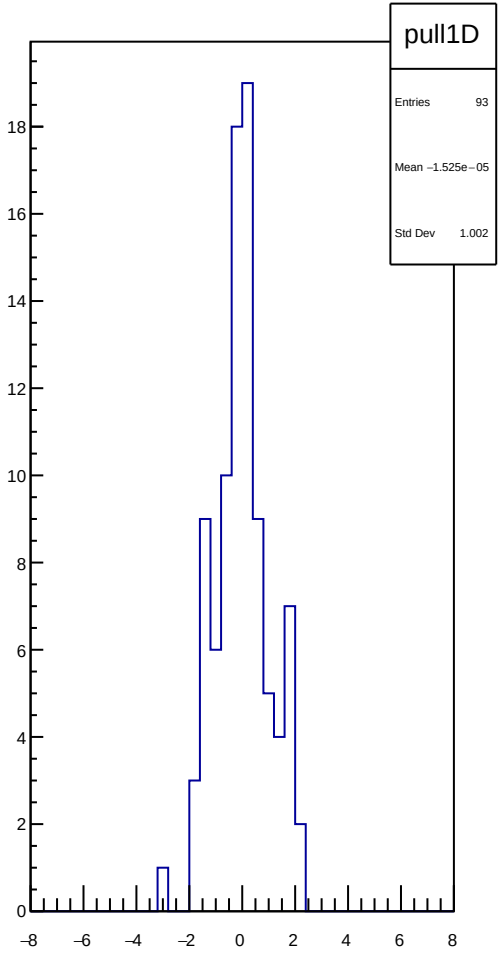

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.372e+05 / 92
p0 6.287e−11 ± 5.661e−14
0.5
0.4
0.3
0.2
0.1

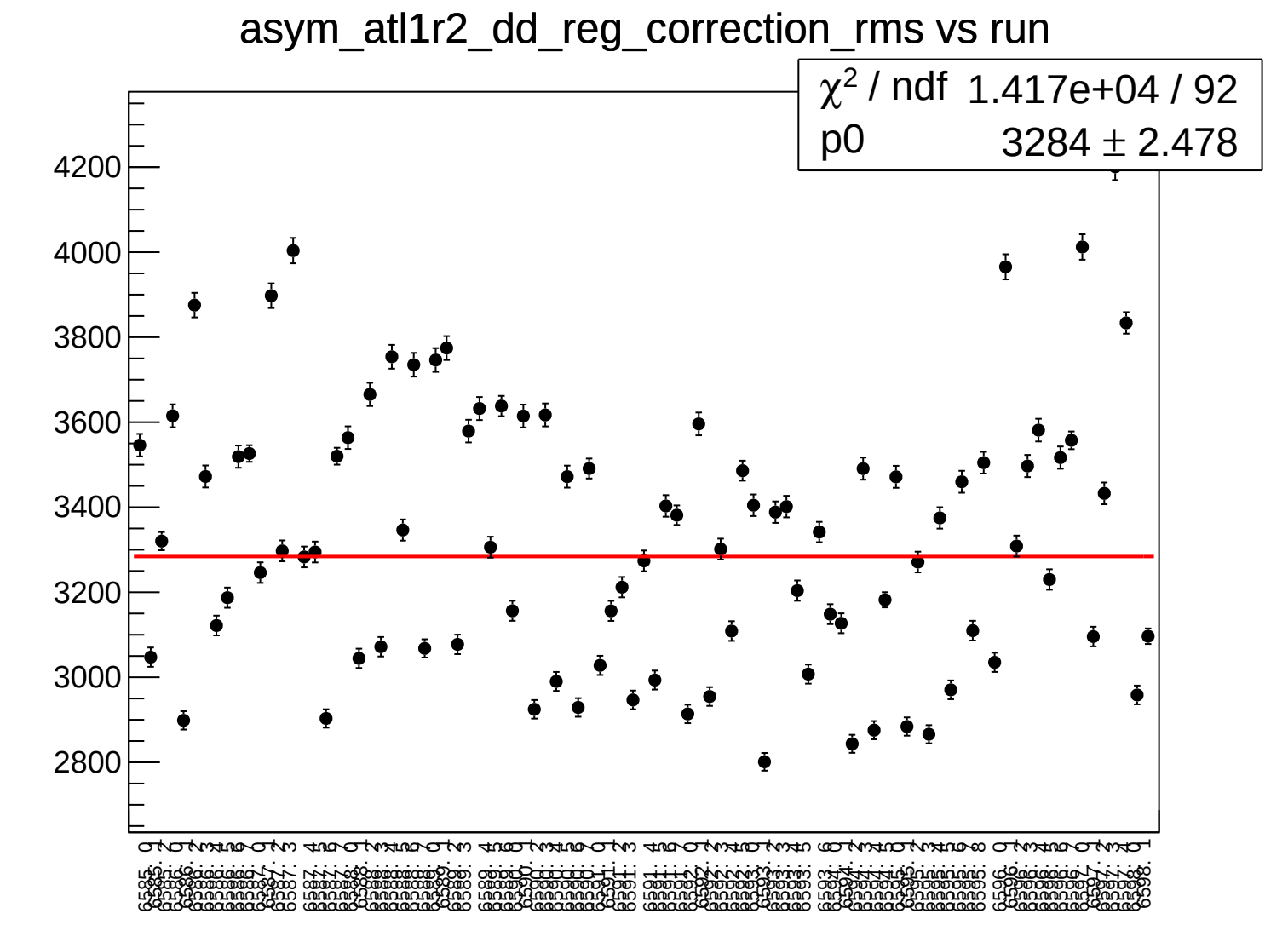

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 91.47 / 92
p0 3483 ± 1894
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1234
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

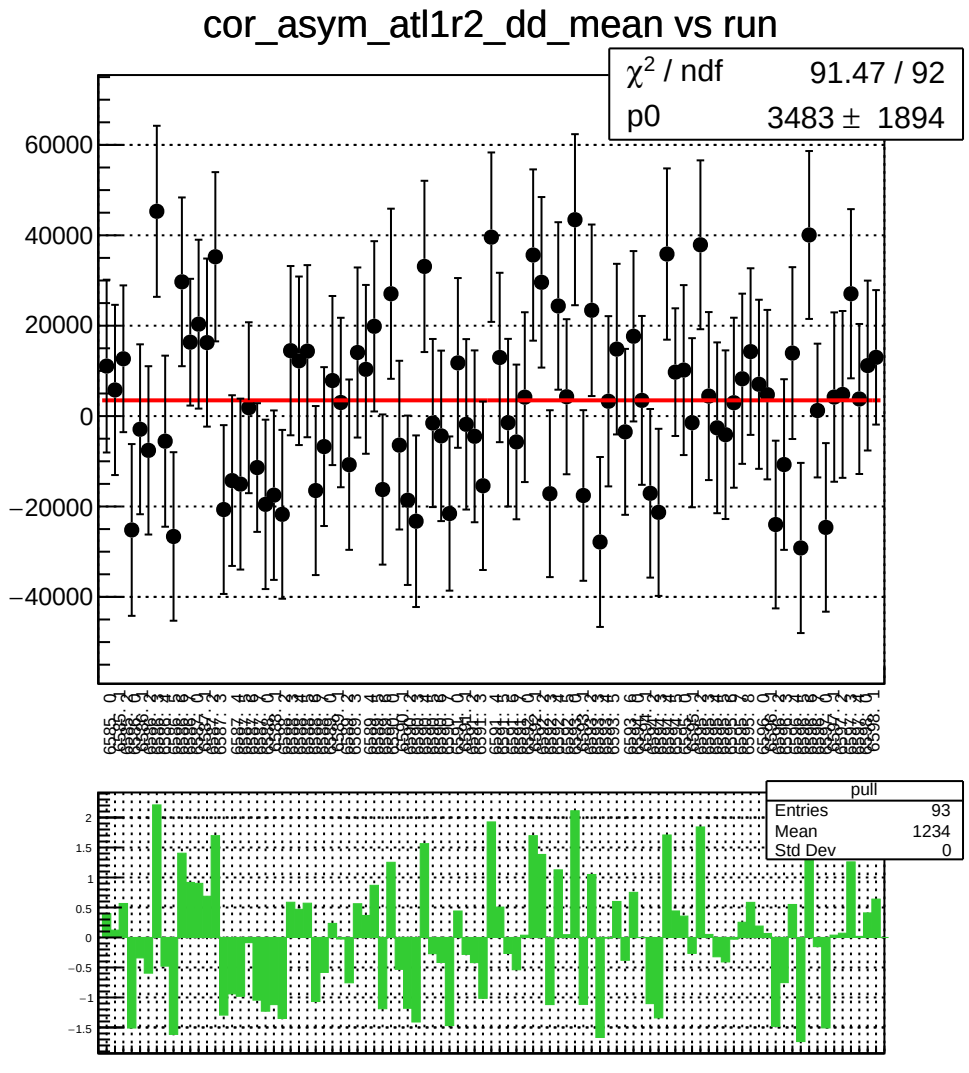

pull1D
Entries 93
Mean 0.001588
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

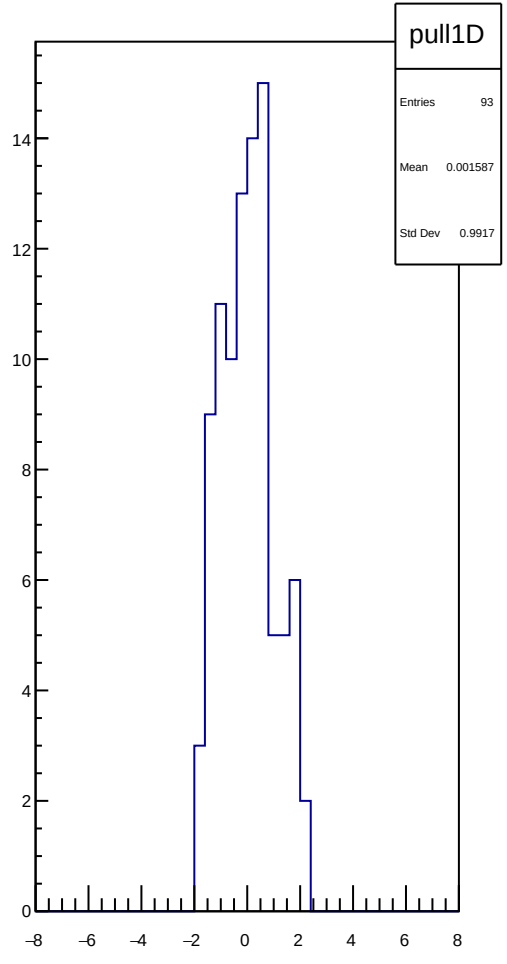

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 93.18 / 92
p0 1782 ± 1.339
1820
1800
1780
1760
1740

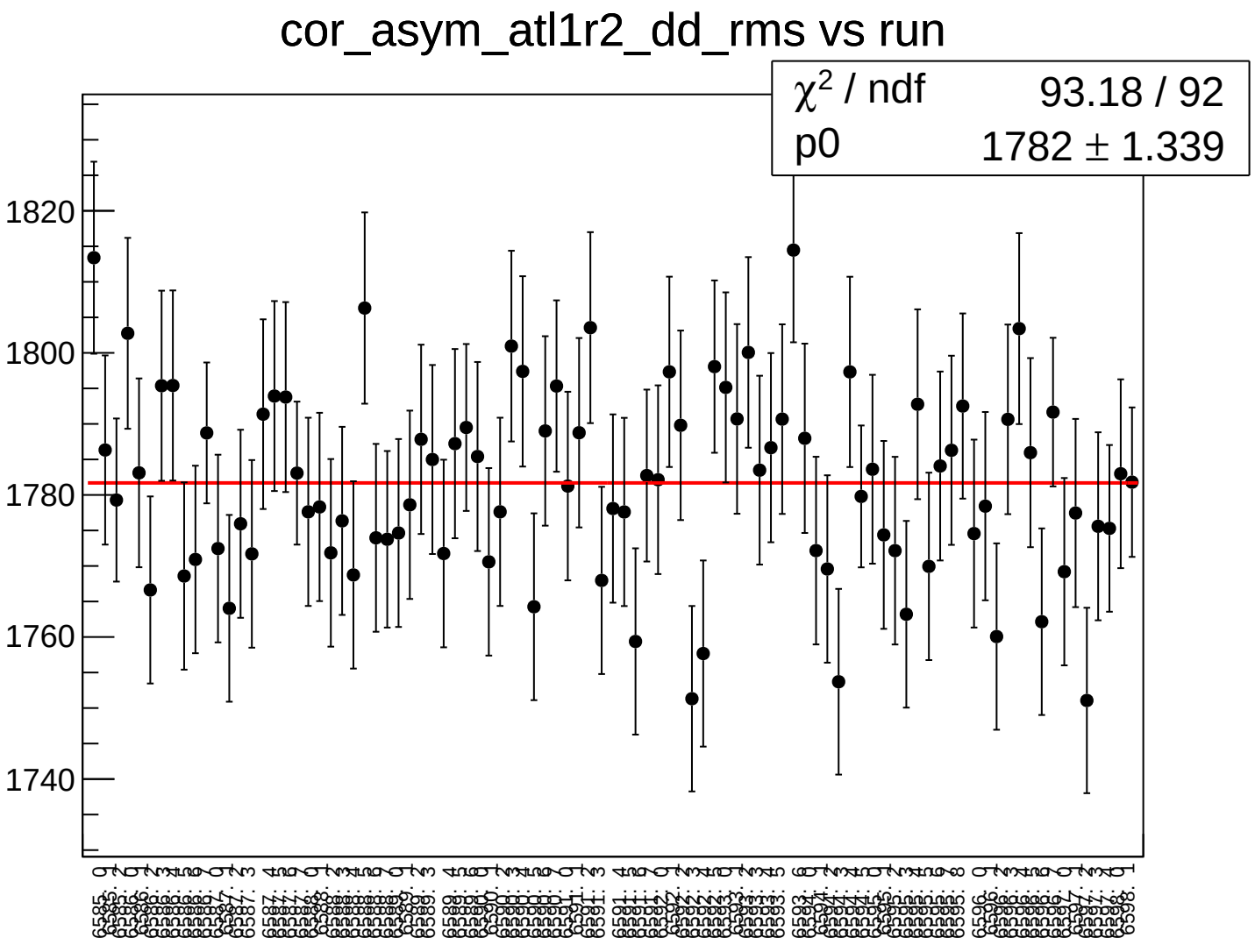

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 93.37 / 92
p0 −1711 ± 3504
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 3504
Std Dev 0
2
1
0
−1
−2
−3

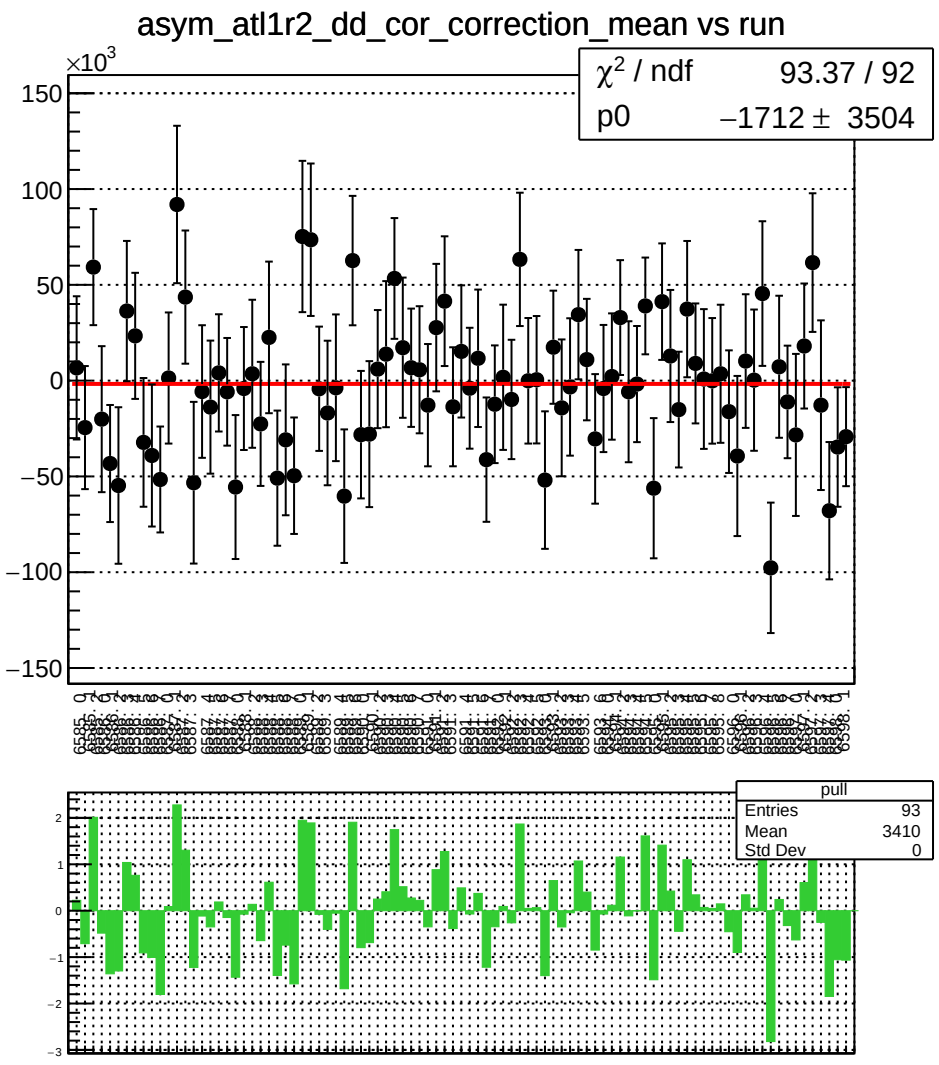

pull1D
Entries 93
Mean −1.525e−05
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

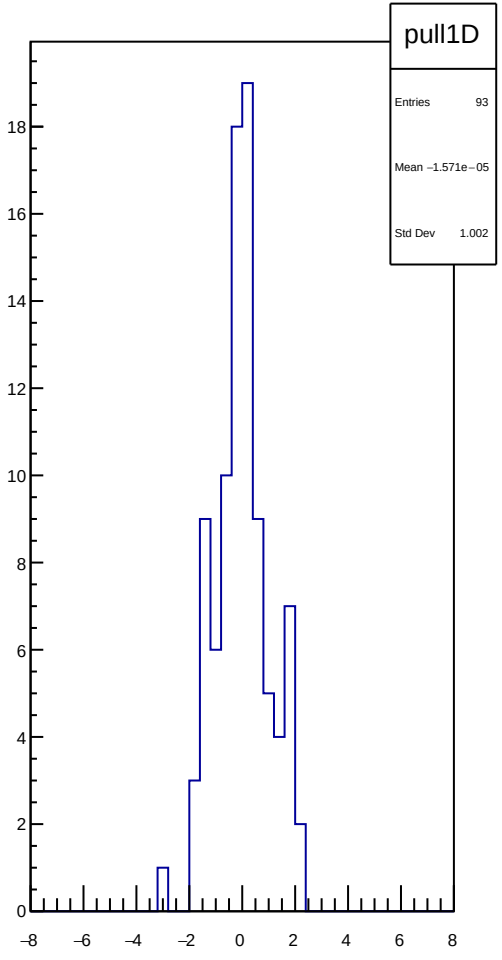

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1.417e+04 / 92
p0 3284 ± 2.478
4200
4000
3800
3600
3400
3200
3000
2800

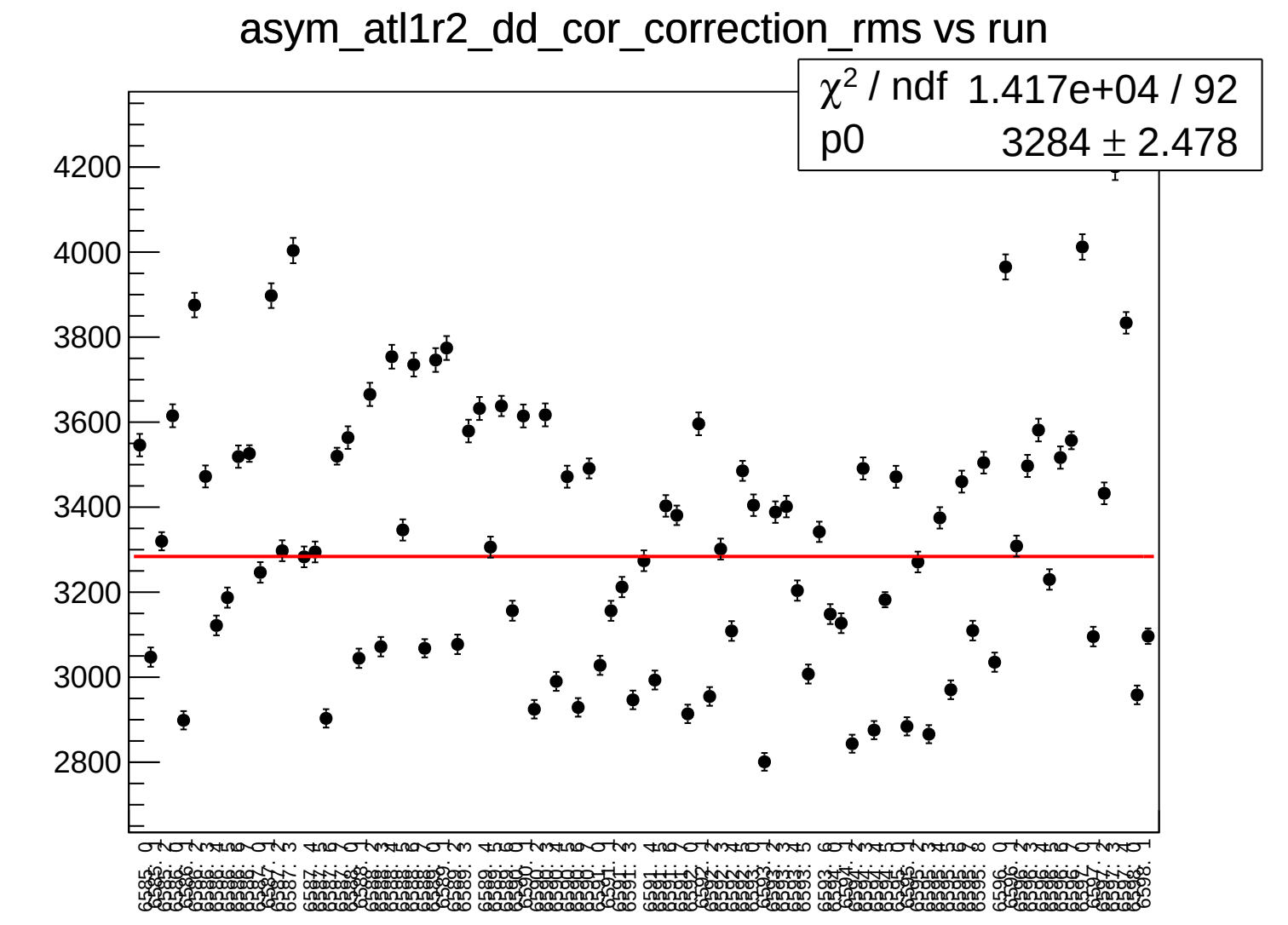

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 91.47 / 92
p0 3483 ± 1894
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1234
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

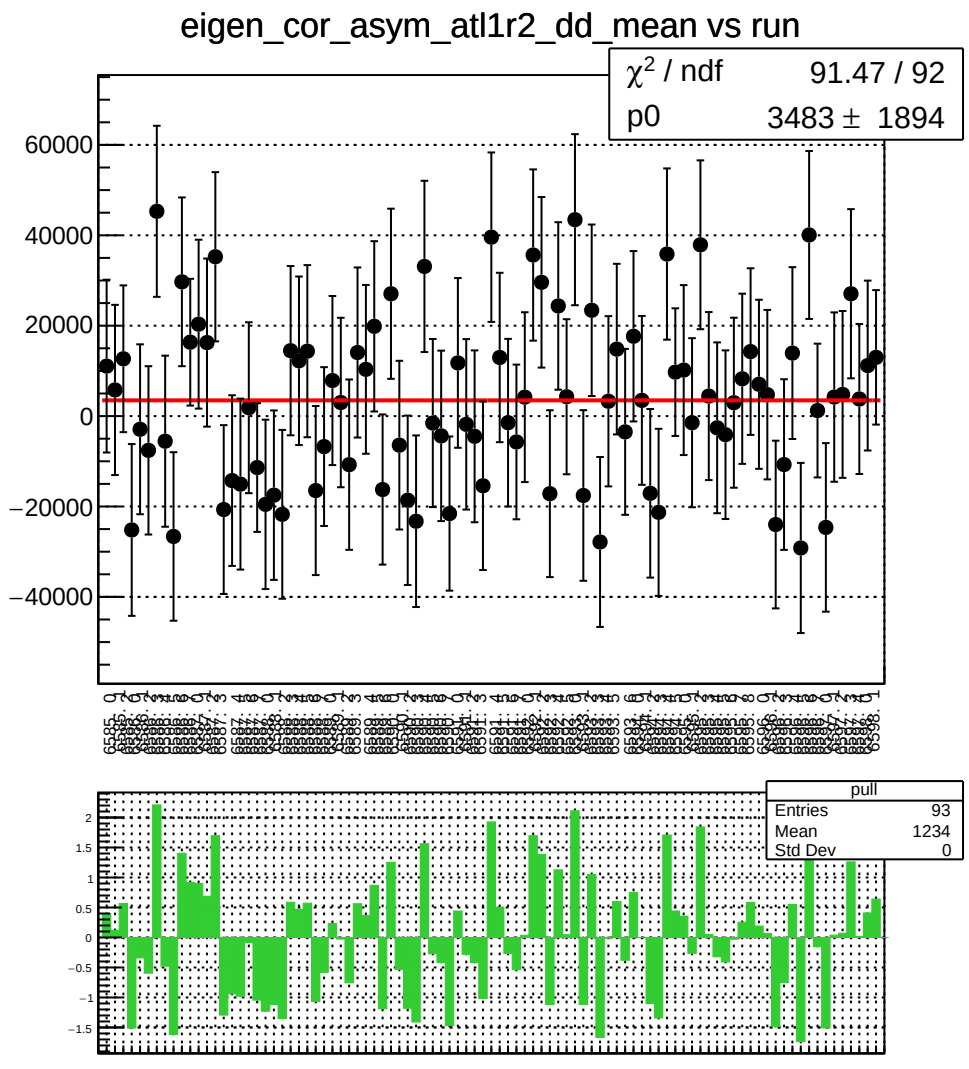

pull1D
Entries 93
Mean 0.001587
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

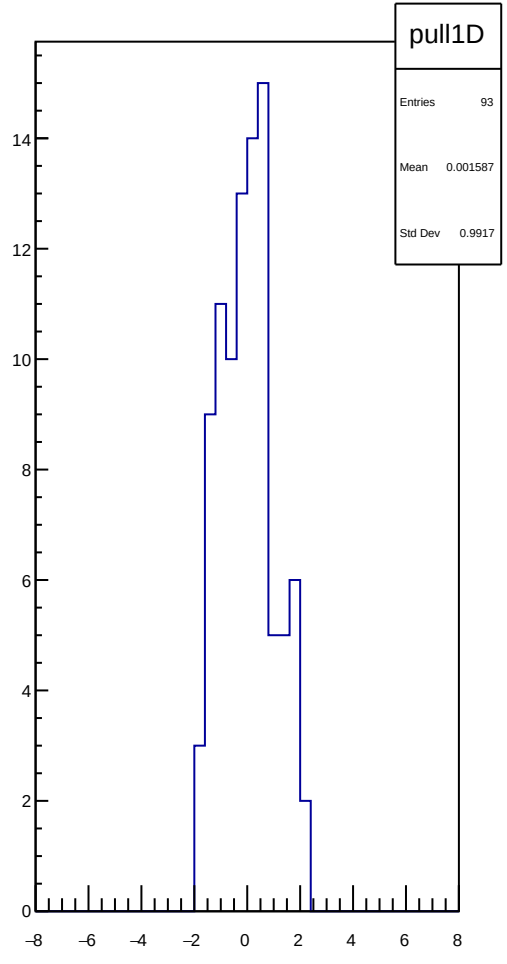

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 93.18 / 92
p0 1782 ± 1.339
1820
1800
1780
1760
1740

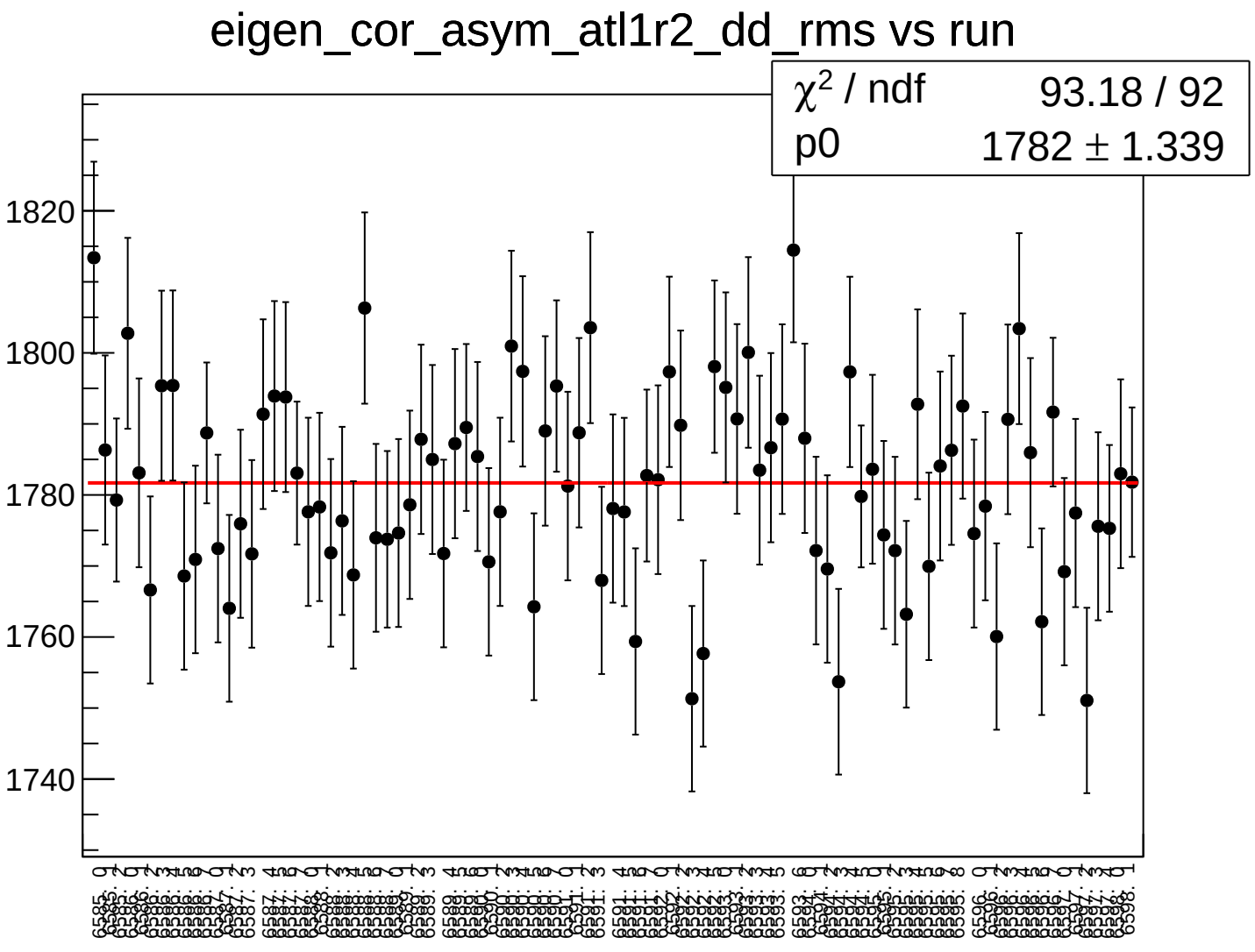

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 93.37 / 92
p0 −1712 ± 3504
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 3410
Std Dev 0
2
1
0
−1
−2
−3

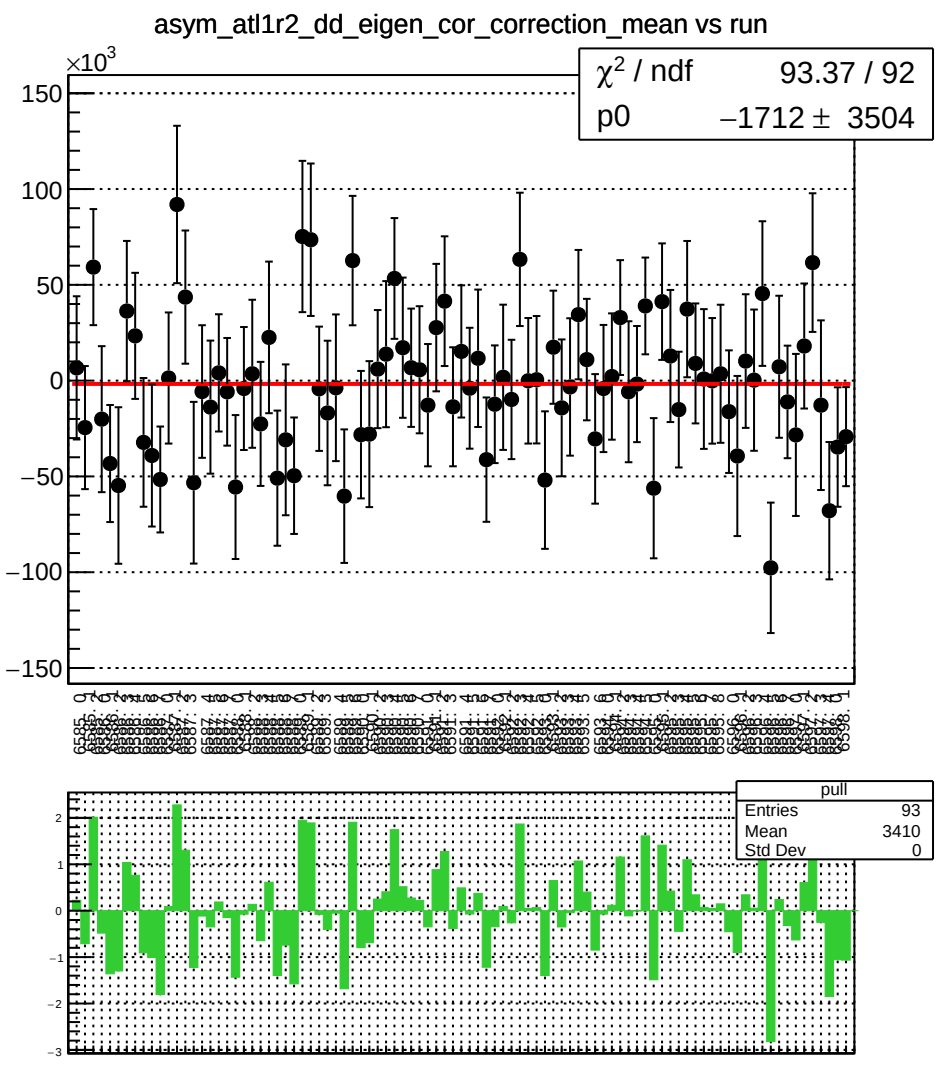

pull1D
Entries 93
Mean −1.571e−05
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

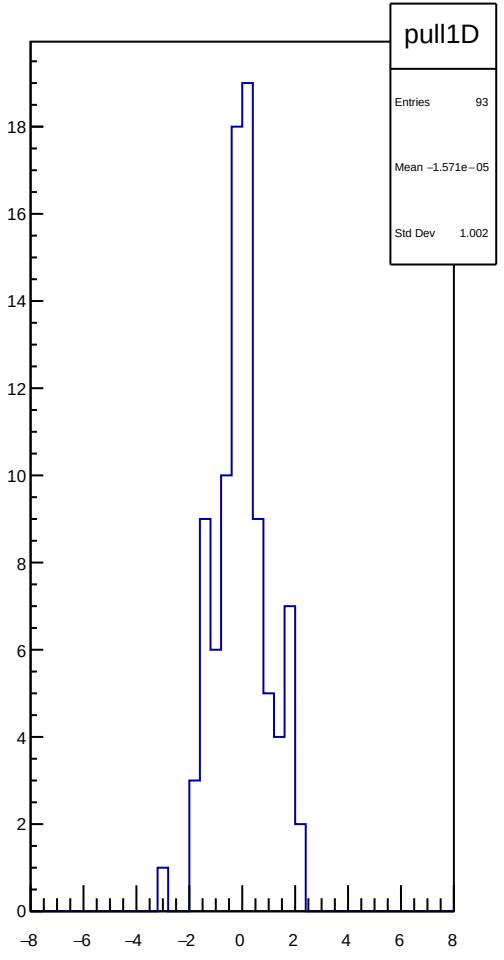

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1.417e+04 / 92
p0 3284 ± 2.478
4200
4000
3800
3600
3400
3200
3000
2800

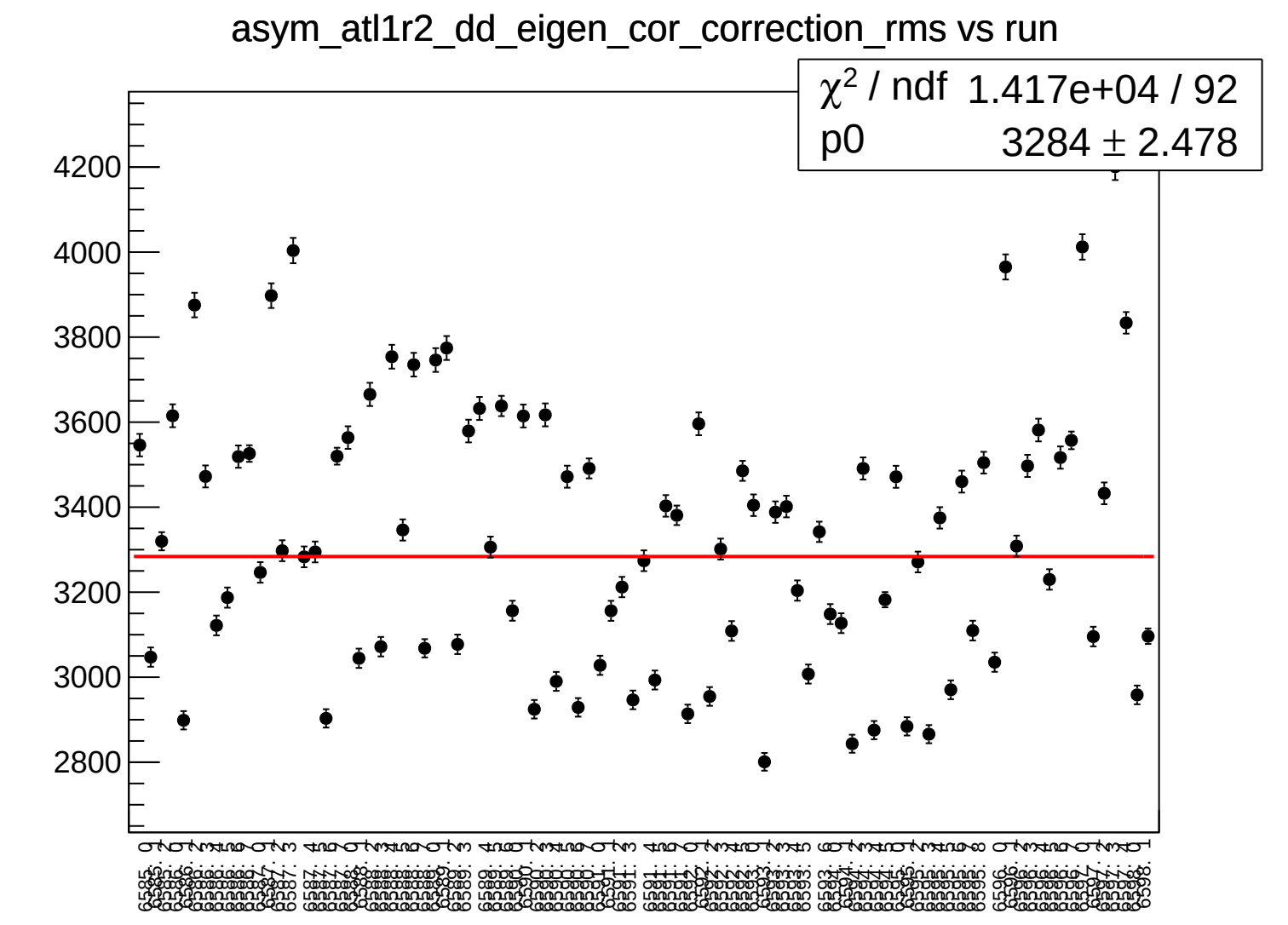

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 91.47 / 92
p0 3483 ± 1894
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1234
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

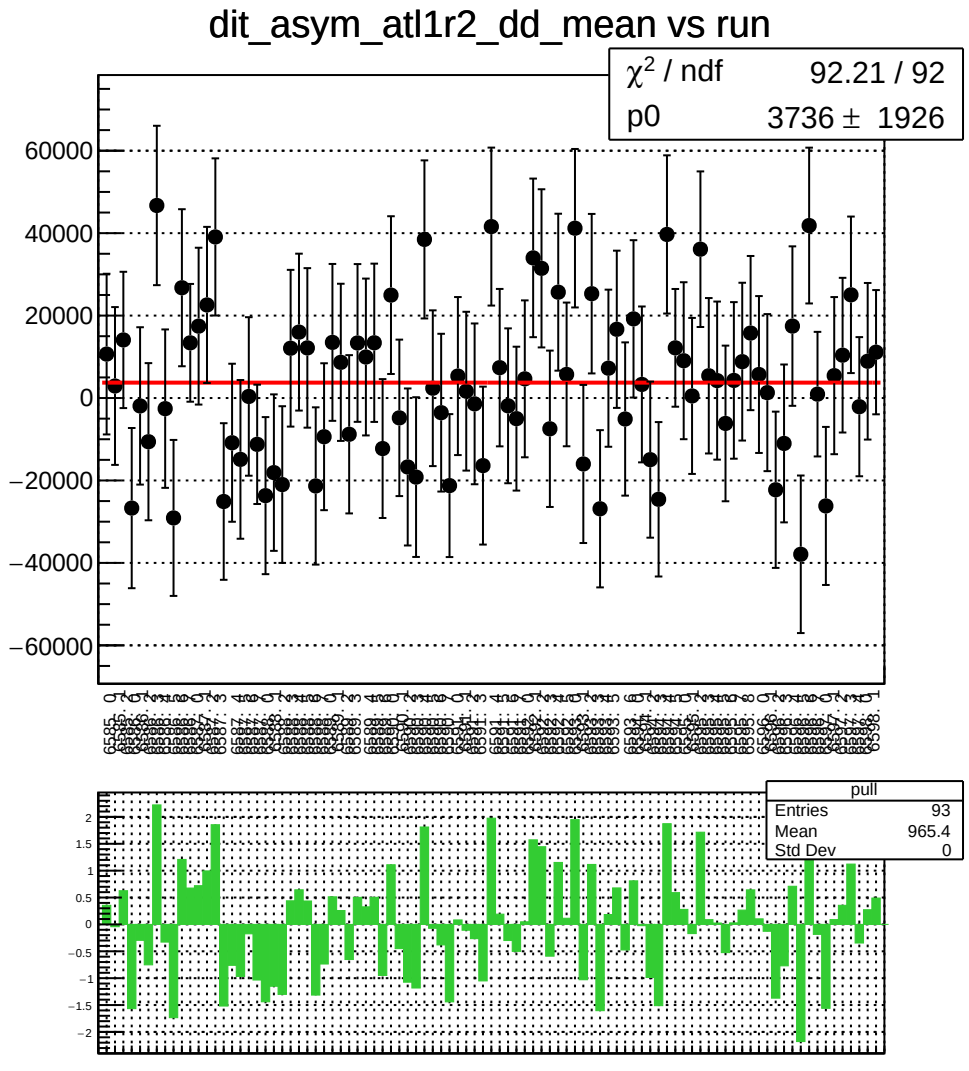

pull1D
Entries 93
Mean 0.001587
Std Dev 0.9917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

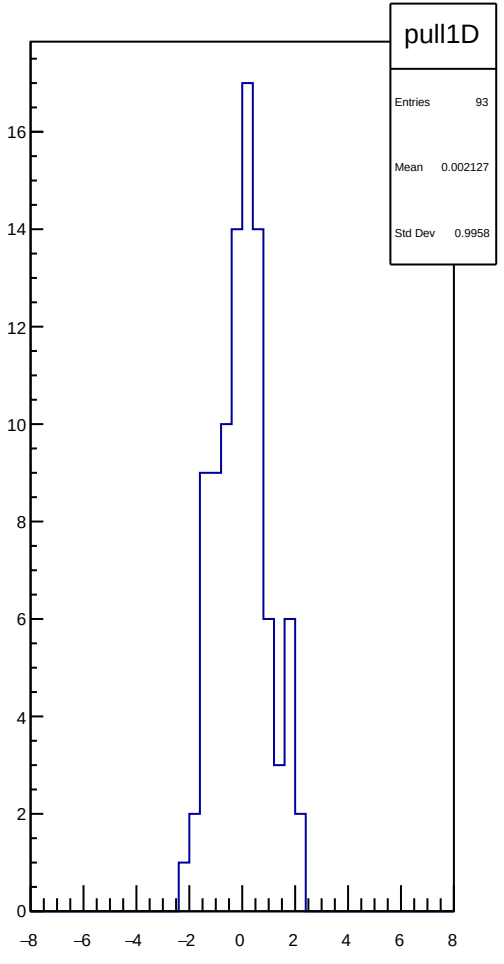

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 93.18 / 92
p0 1782 ± 1.339
1820
1800
1780
1760
1740

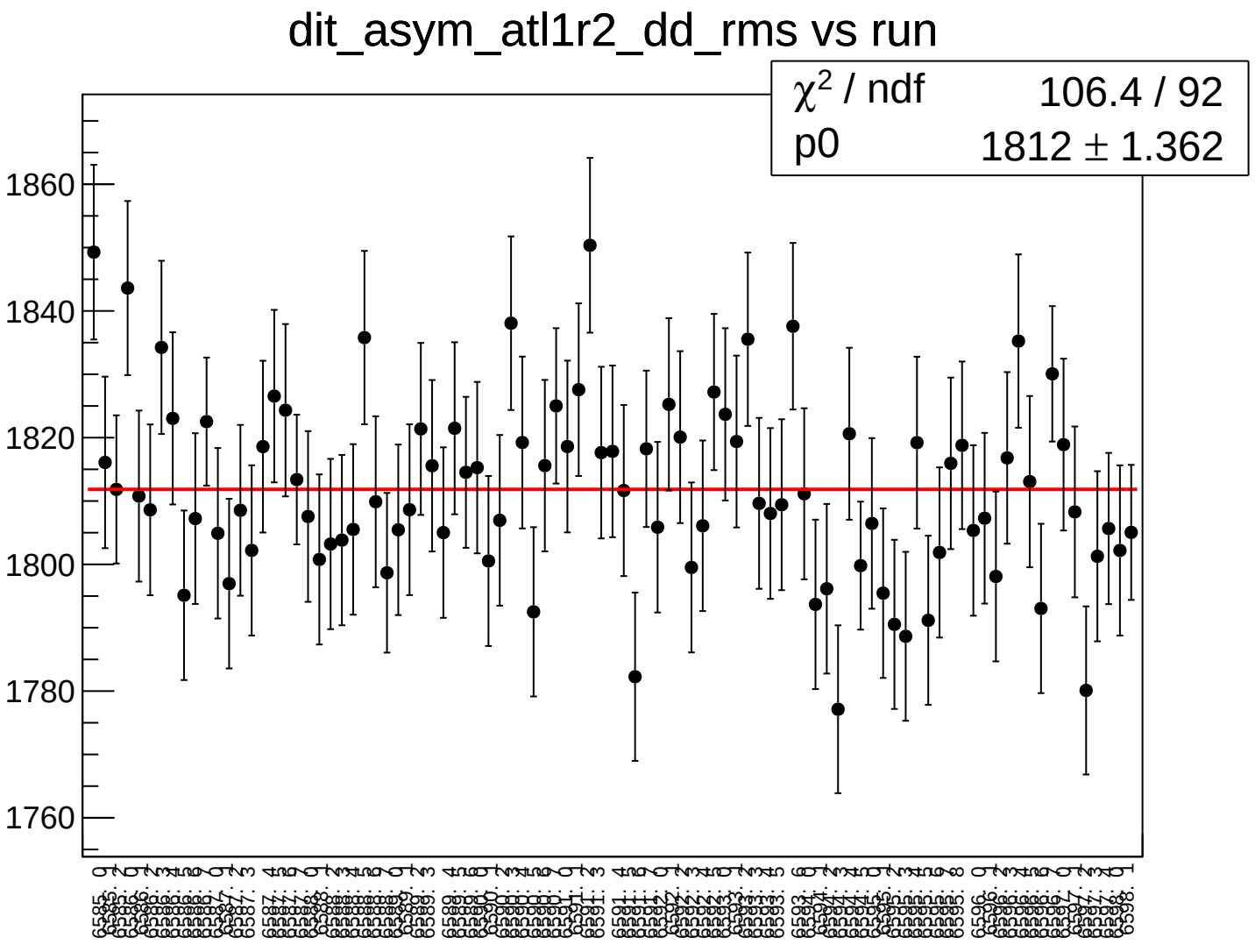

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.37 / 92
p0 −1712 ± 3504
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 3410
Std Dev 0
2
1
0
−1
−2
−3

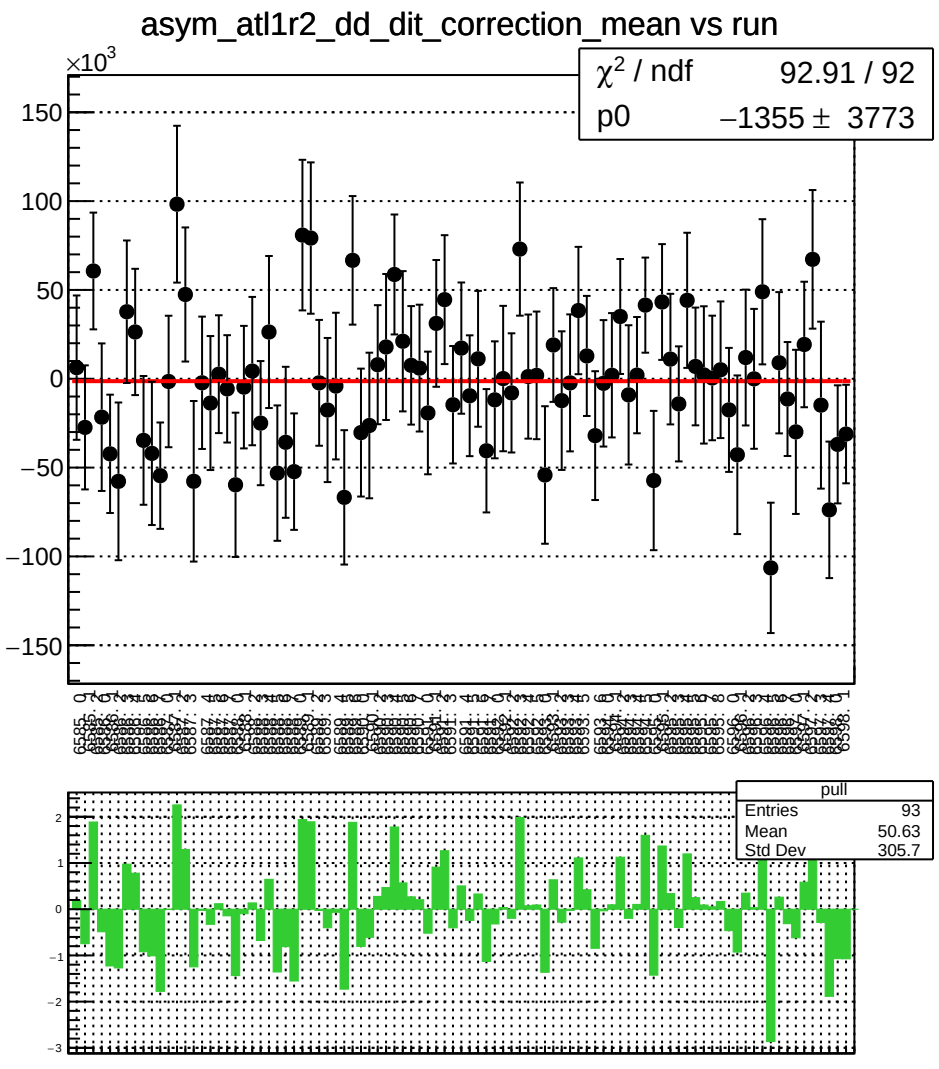

pull1D
Entries 93
Mean −1.571e−05
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

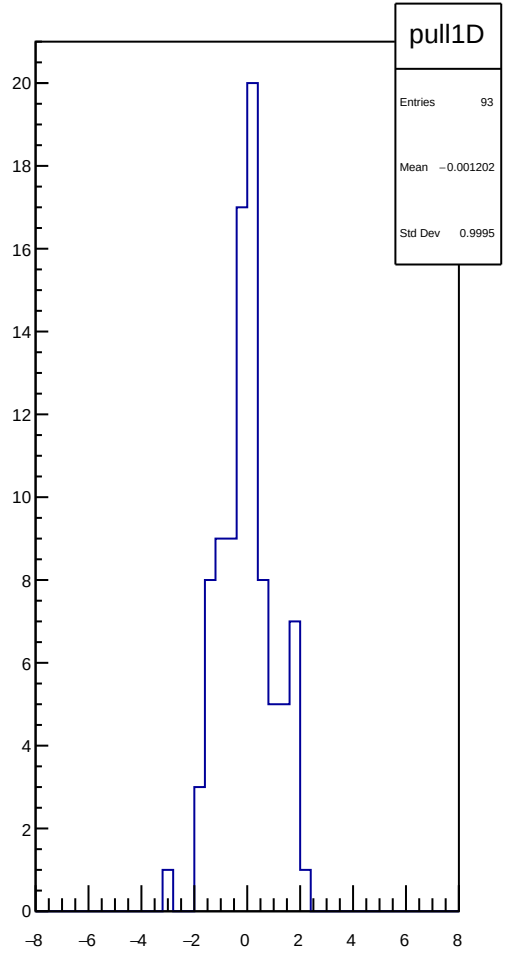

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.417e+04 / 92
p0 3284 ± 2.478
4200
4000
3800
3600
3400
3200
3000
2800

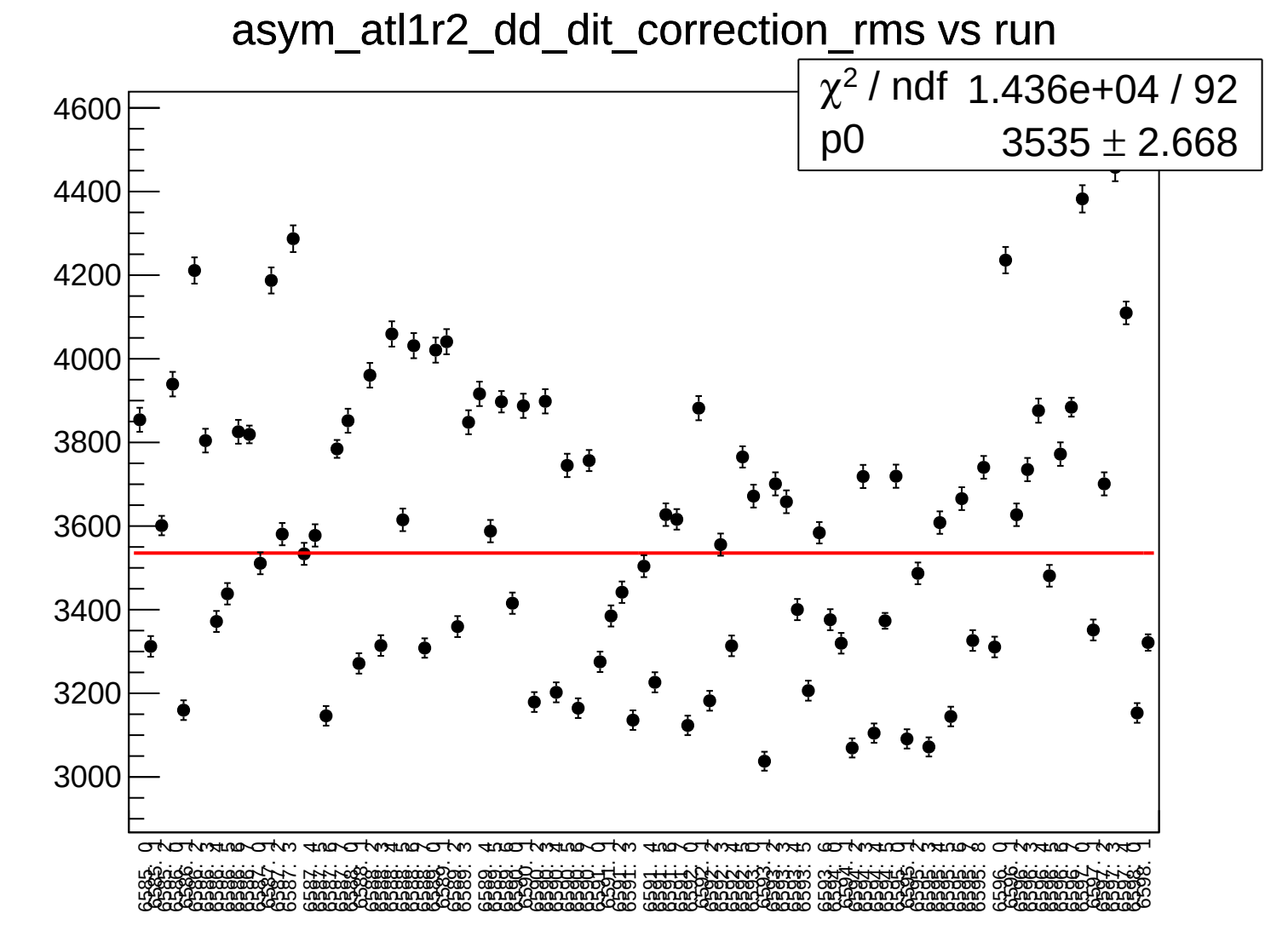

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 92.21 / 92
p0 3736 ± 1926
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 965.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

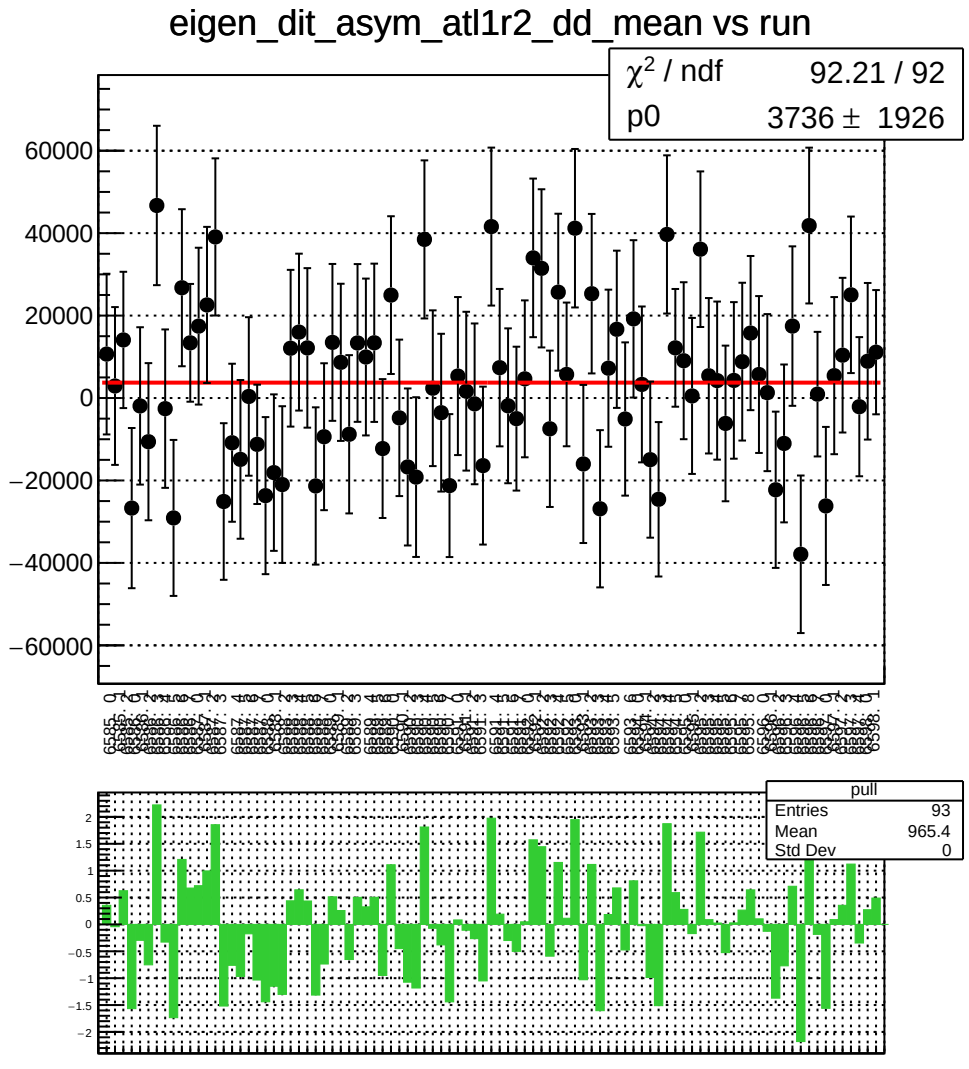

pull1D
Entries 93
Mean 0.002127
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

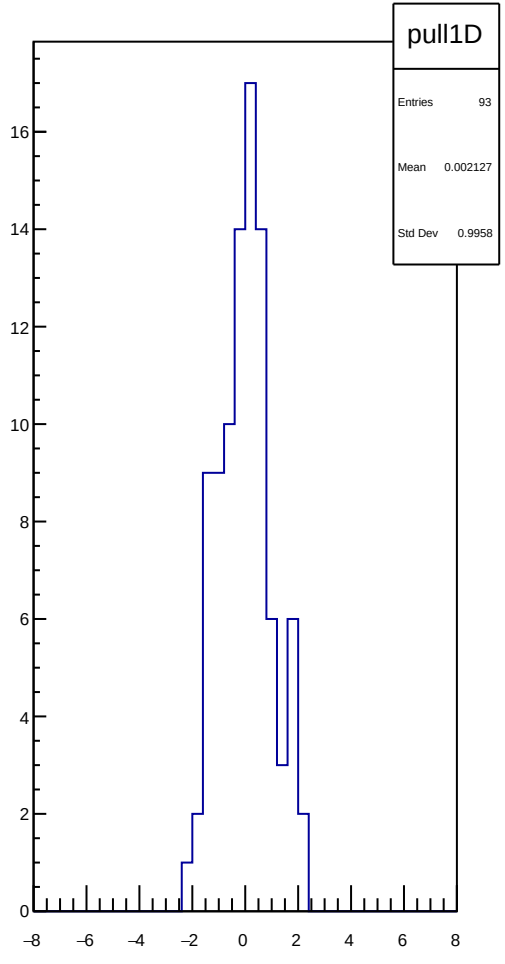

dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 106.4 / 92
p0 1812 ± 1.362
1860
1840
1820
1800
1780
1760

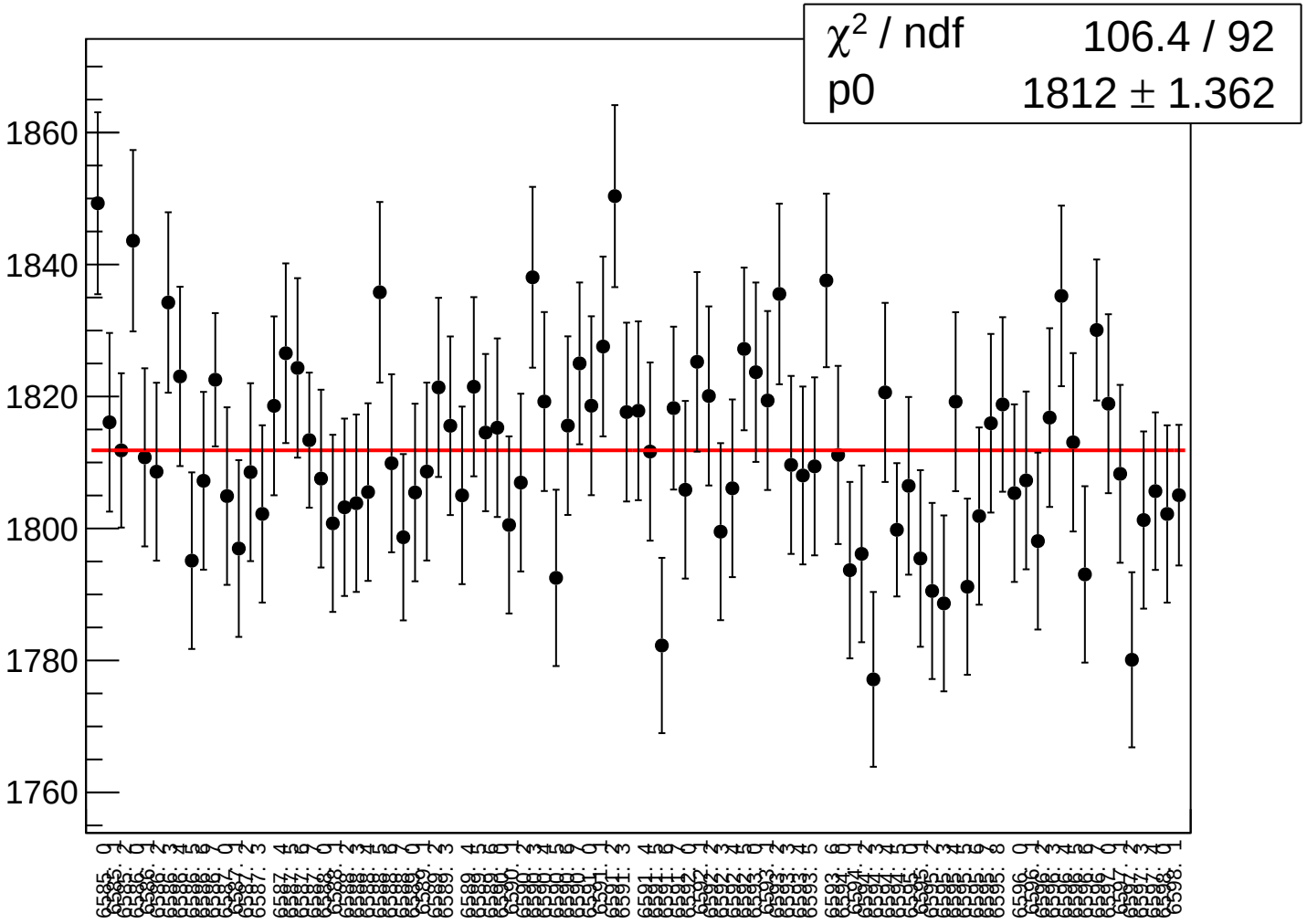

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 92.91 / 92
p0 −1355 ± 3773
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 50.63
Std Dev 305.7
2
1
0
−1
−2
−3

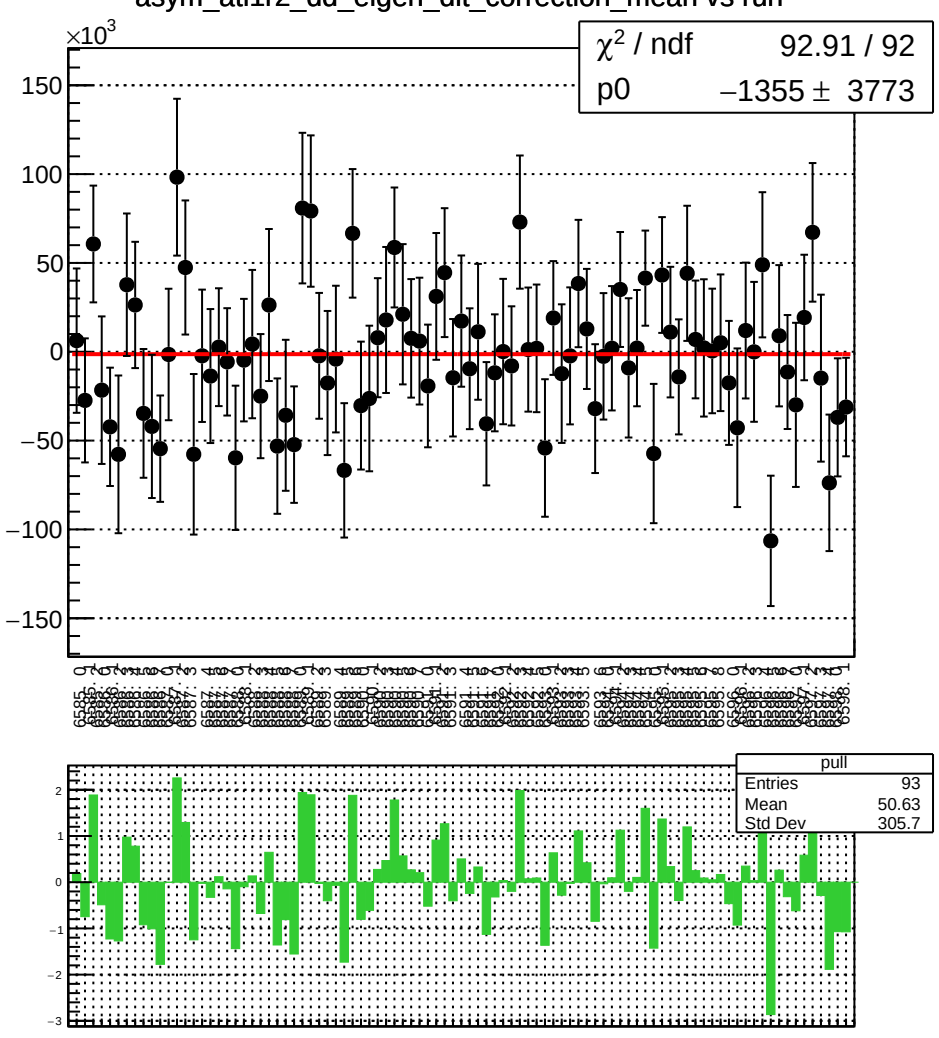

pull1D
Entries 93
Mean −0.001202
Std Dev 0.9995
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

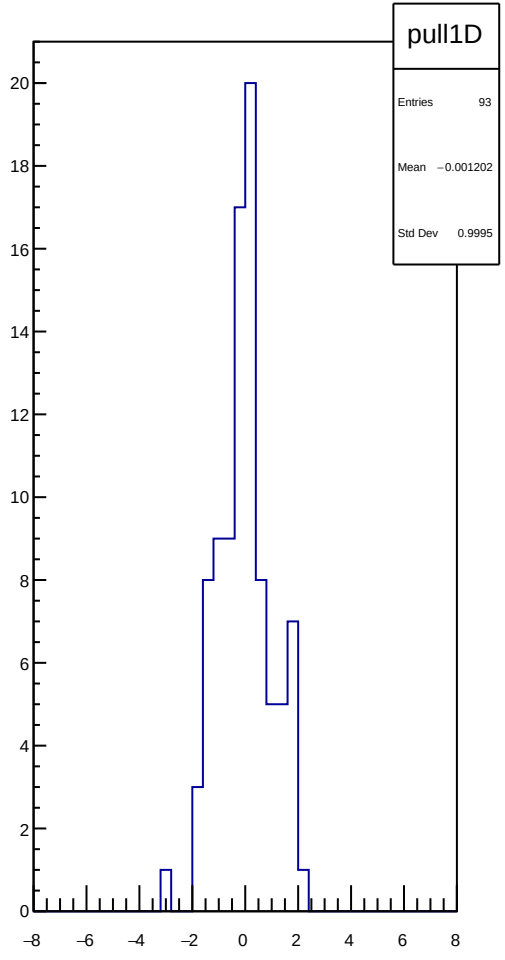

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1.436e+04 / 92
p0 3535 ± 2.668
4600
4400
4200
4000
3800
3600
3400
3200
3000

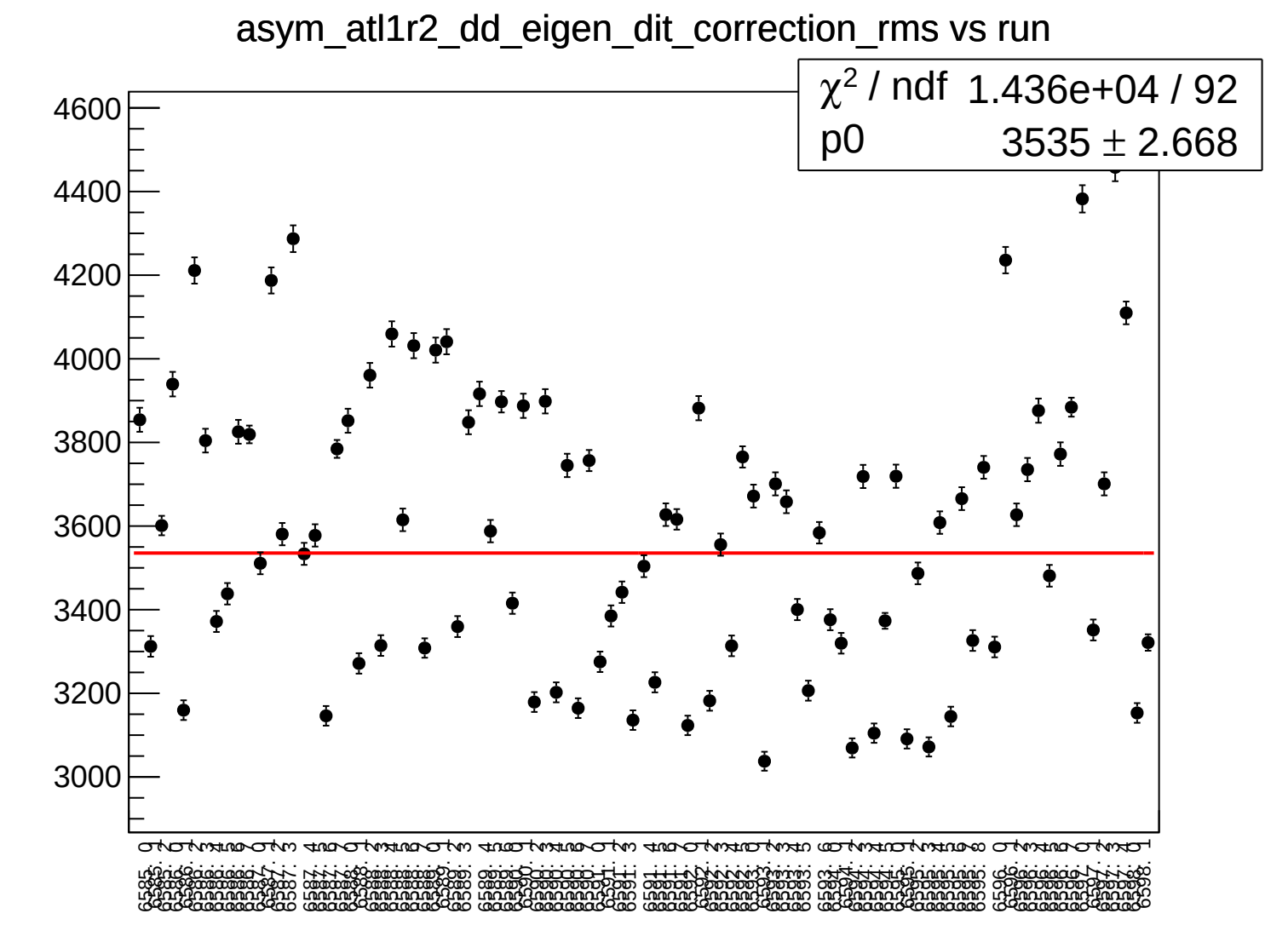

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 92.21 / 92
p0 3736 ± 1926
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 965.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

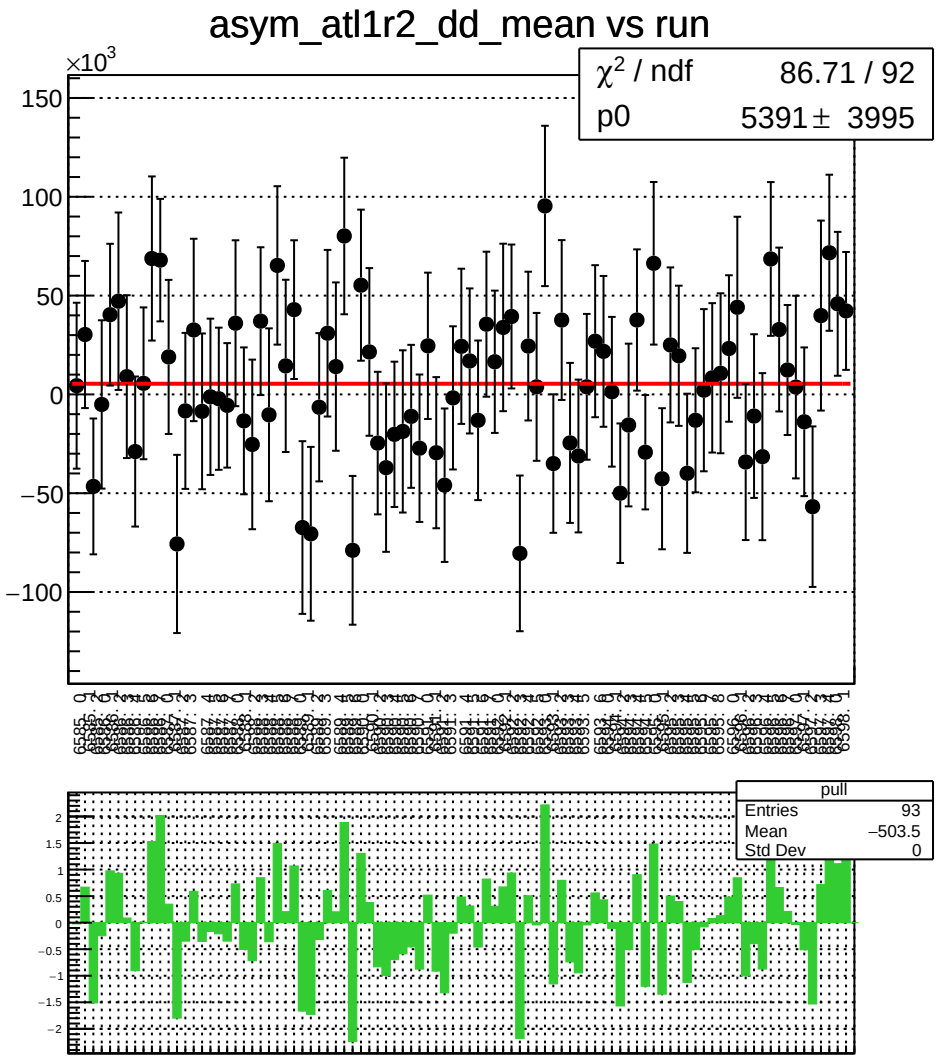

pull1D
Entries 93
Mean 0.002127
Std Dev 0.9958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

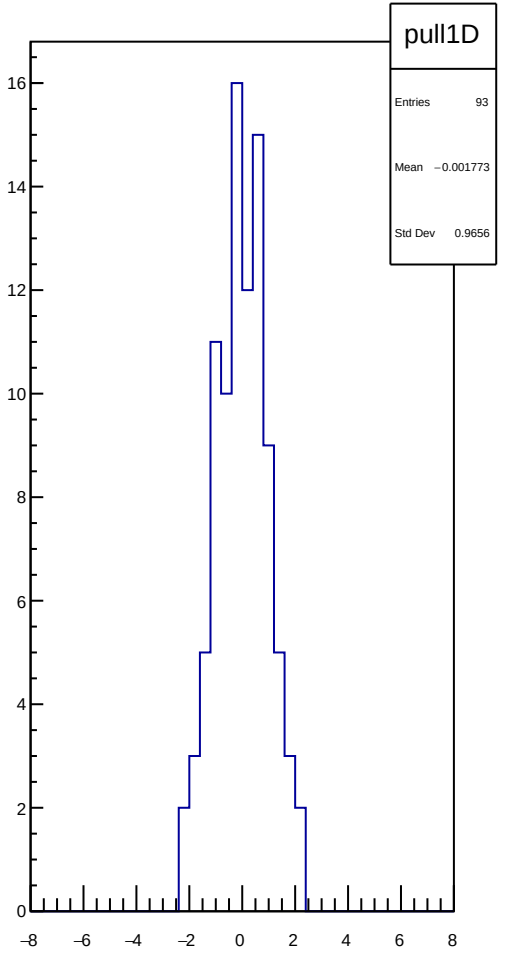

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 106.4 / 92
p0 1812 ± 1.362
1860
1840
1820
1800
1780
1760


asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.91 / 92
p0 −1355 ± 3773
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 50.63
Std Dev 305.7
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.001202
Std Dev 0.9995
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 1.436e+04 / 92
p0 3535 ± 2.668
4600
4400
4200
4000
3800
3600
3400
3200
3000


asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 86.71 / 92
p0 5391 ± 3995
150
100
50
0
−50
−100
pull
Entries 93
Mean −503.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean −0.001773
Std Dev 0.9656
16
14
12
10
8
6
4
2
0
−8
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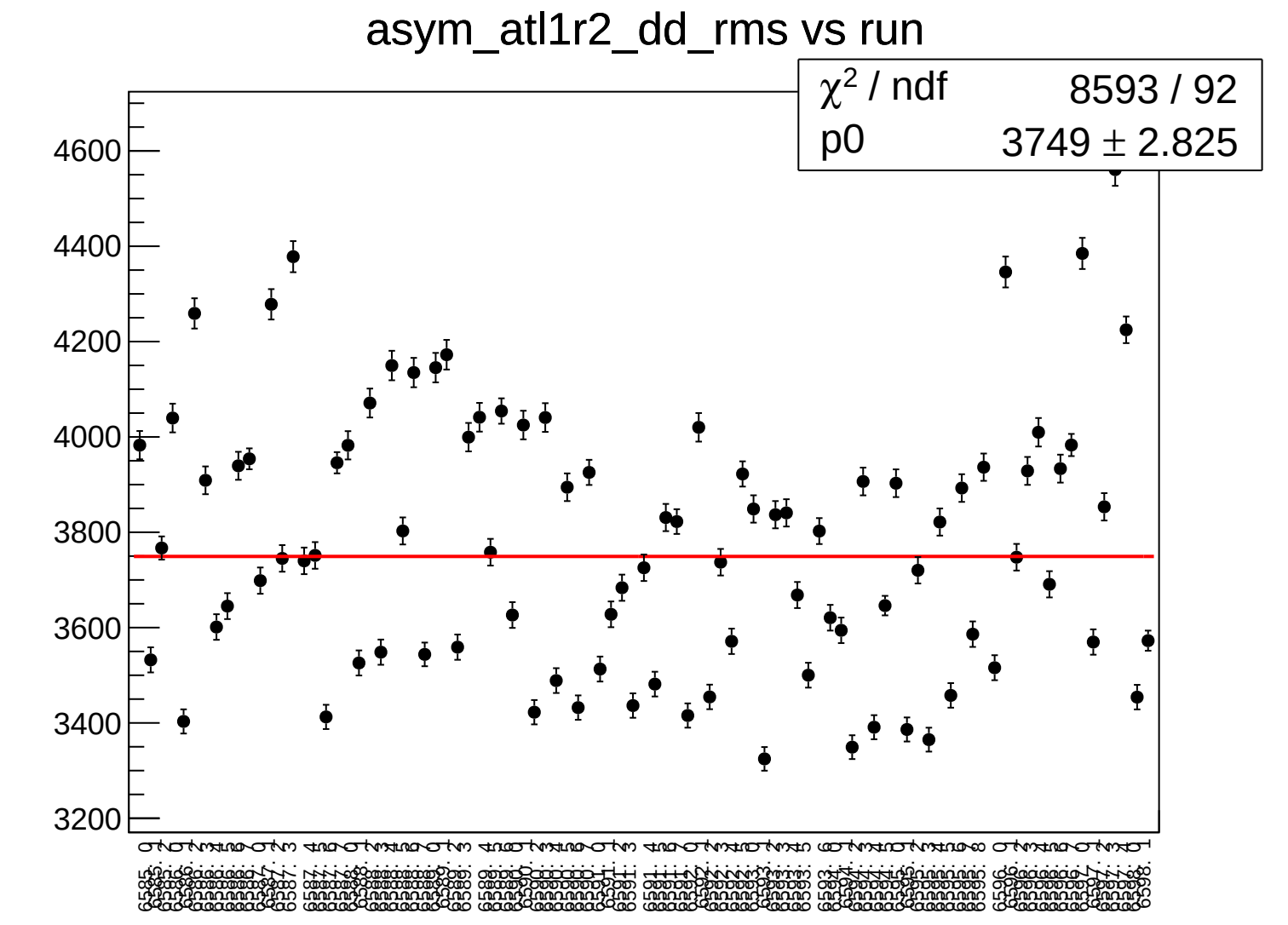
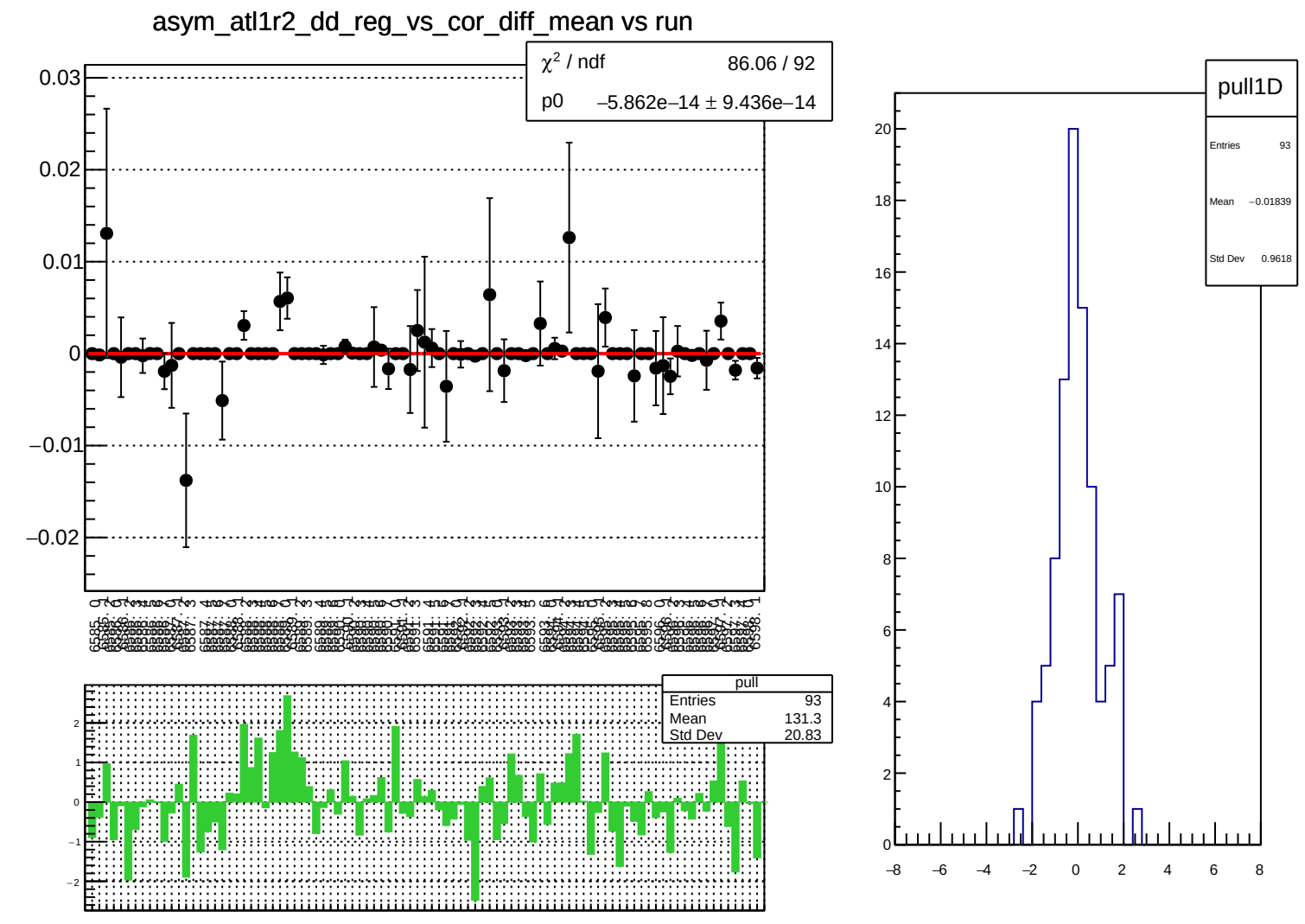
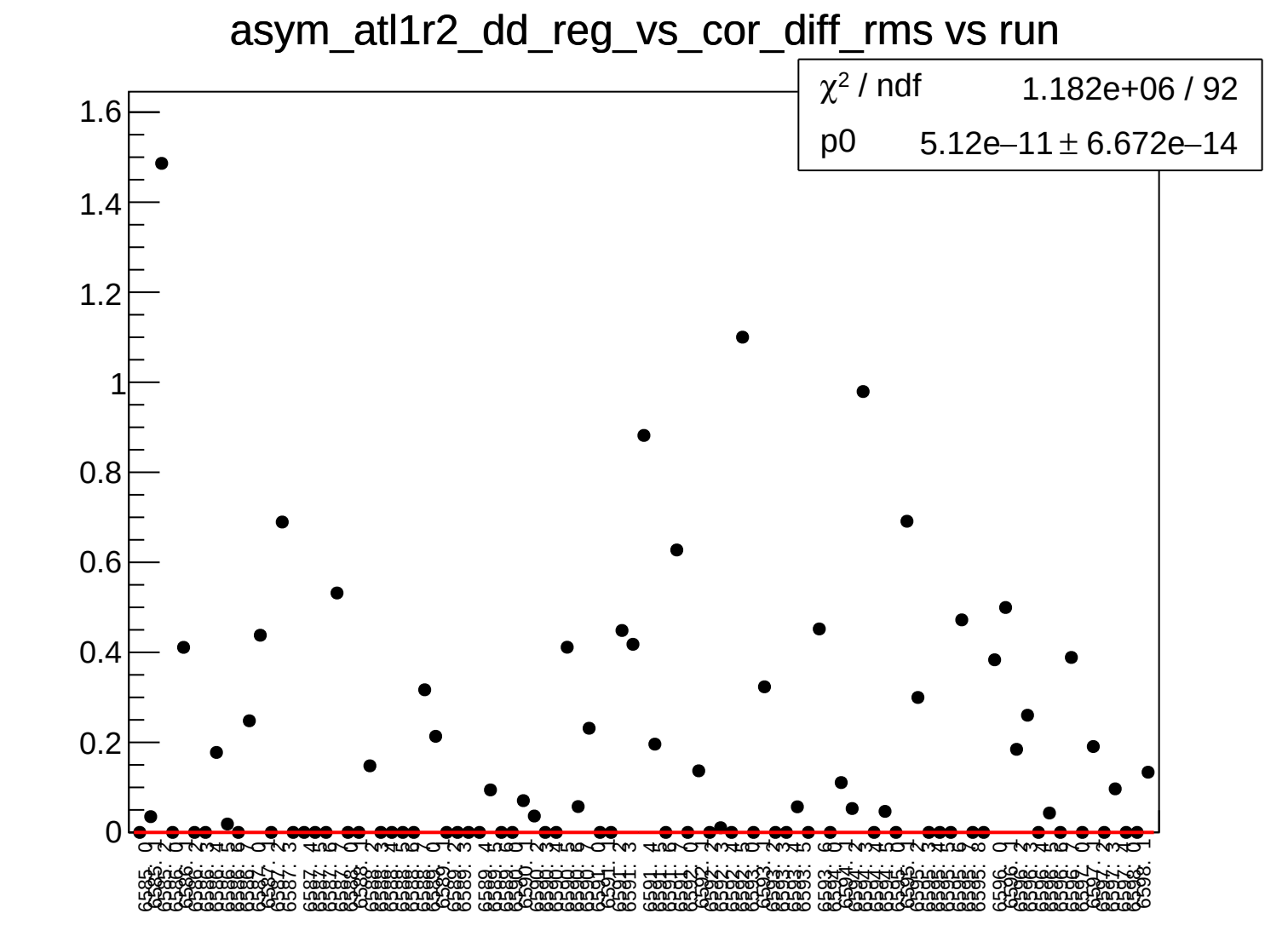
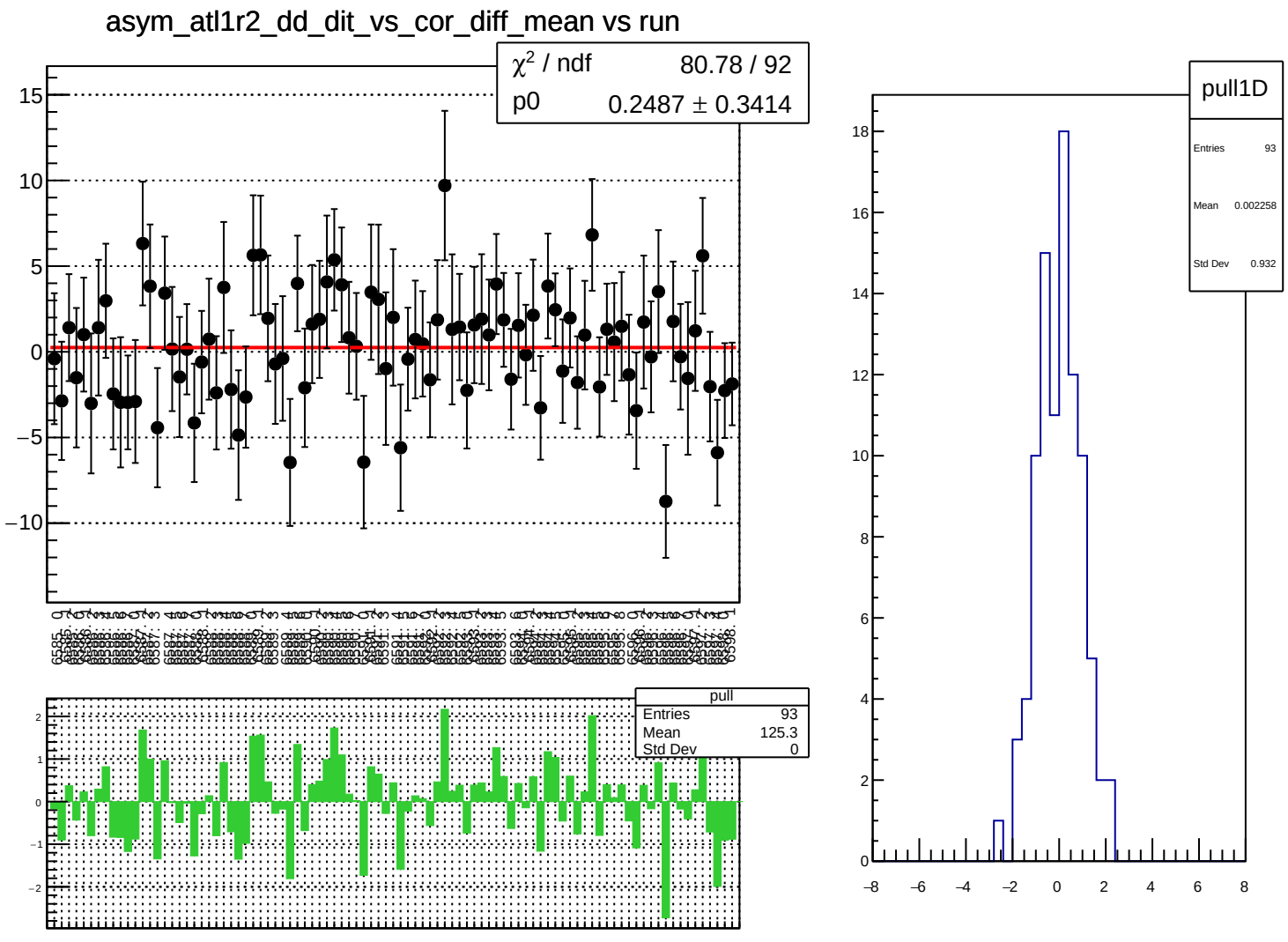
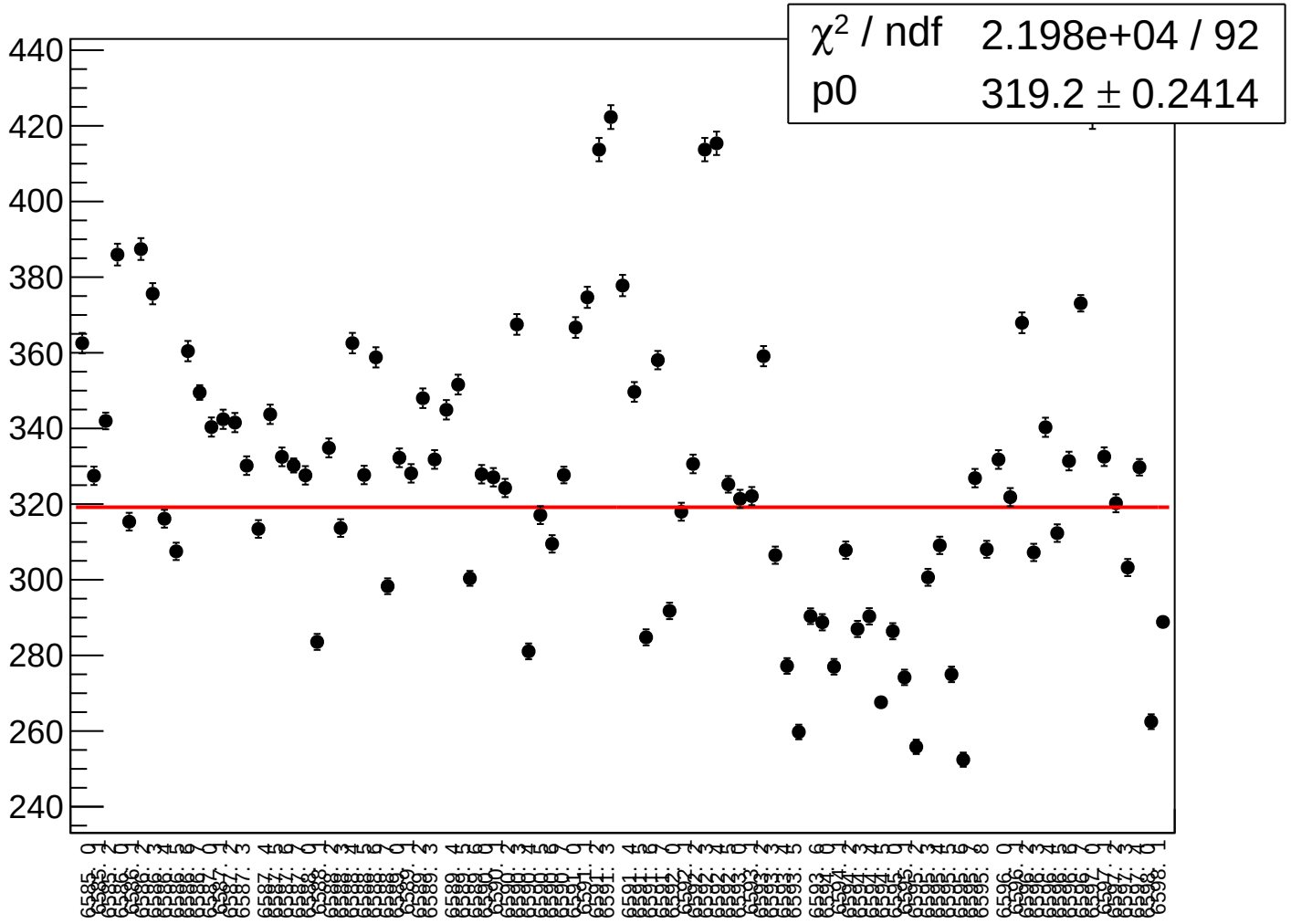
0
2
4
6
8

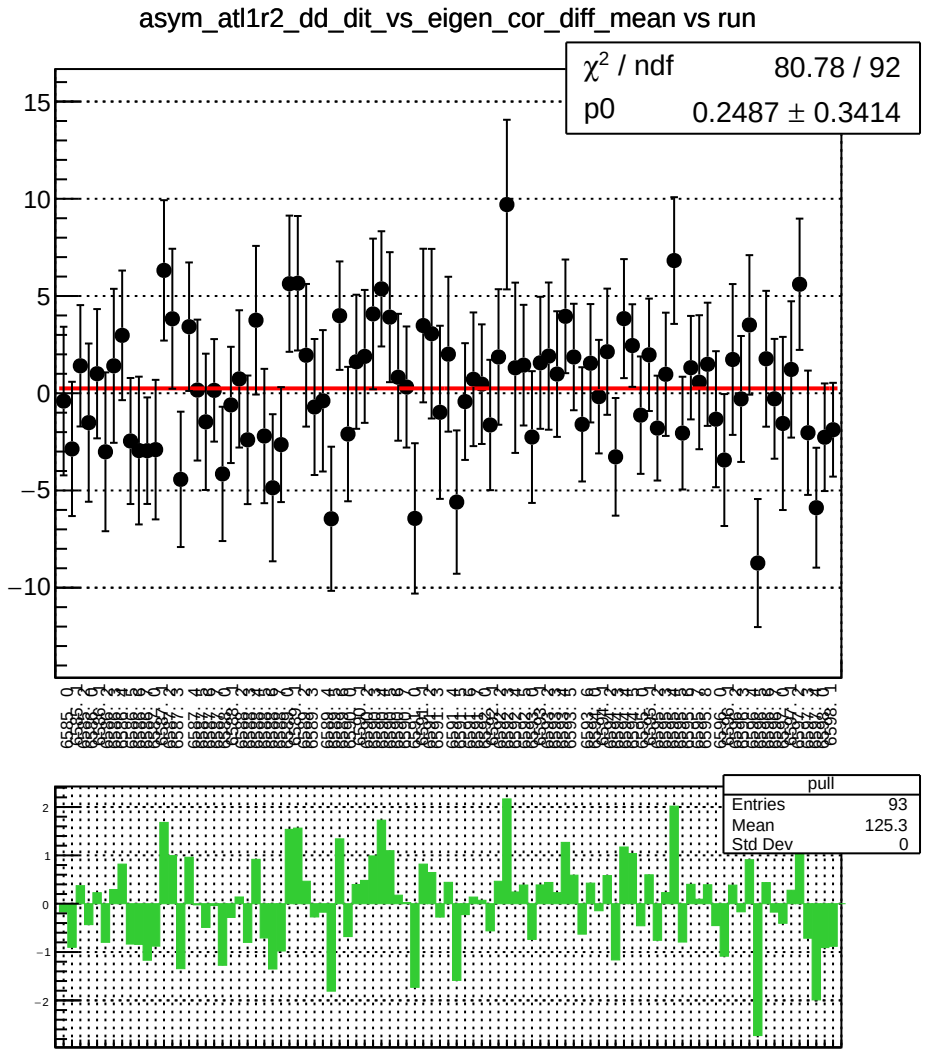

asym_atl1r2_dd_rms vs run
χ^2 / ndf 8593 / 92
p0 3749 ± 2.825
4600
4400
4200
4000
3800
3600
3400
3200

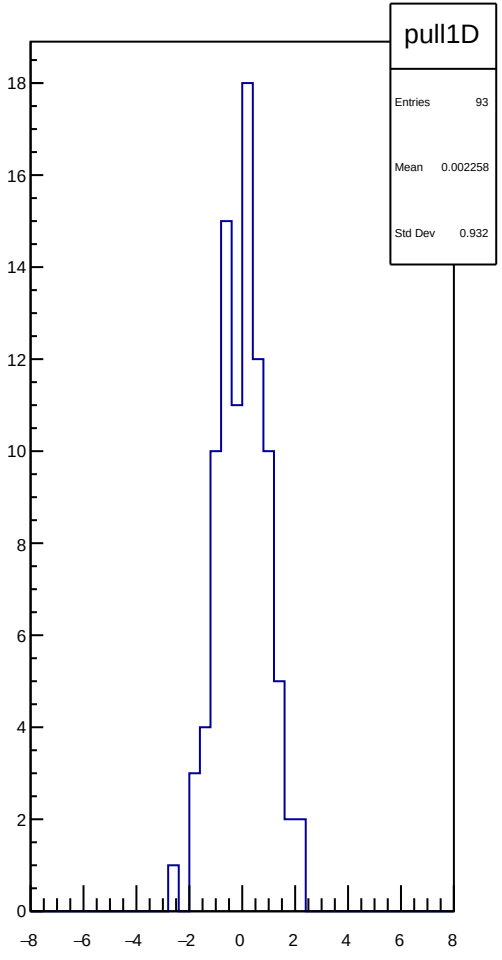

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.06 / 92
p0 −5.862e−14 ± 9.436e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 131.3
Std Dev 20.83
pull1D
Entries 93
Mean −0.01839
Std Dev 0.9618

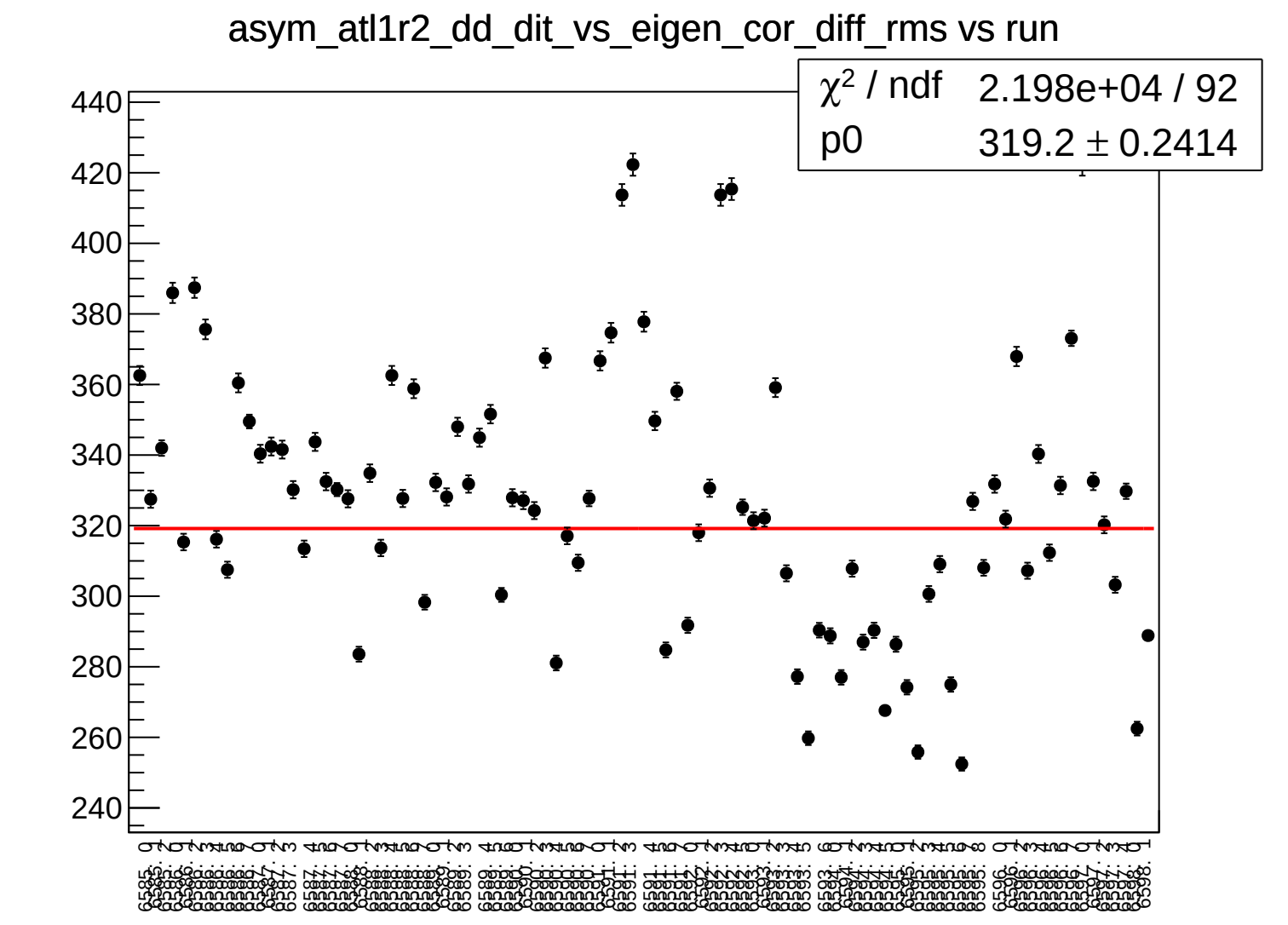

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.182e+06 / 92
p0 5.12e−11 ± 6.672e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

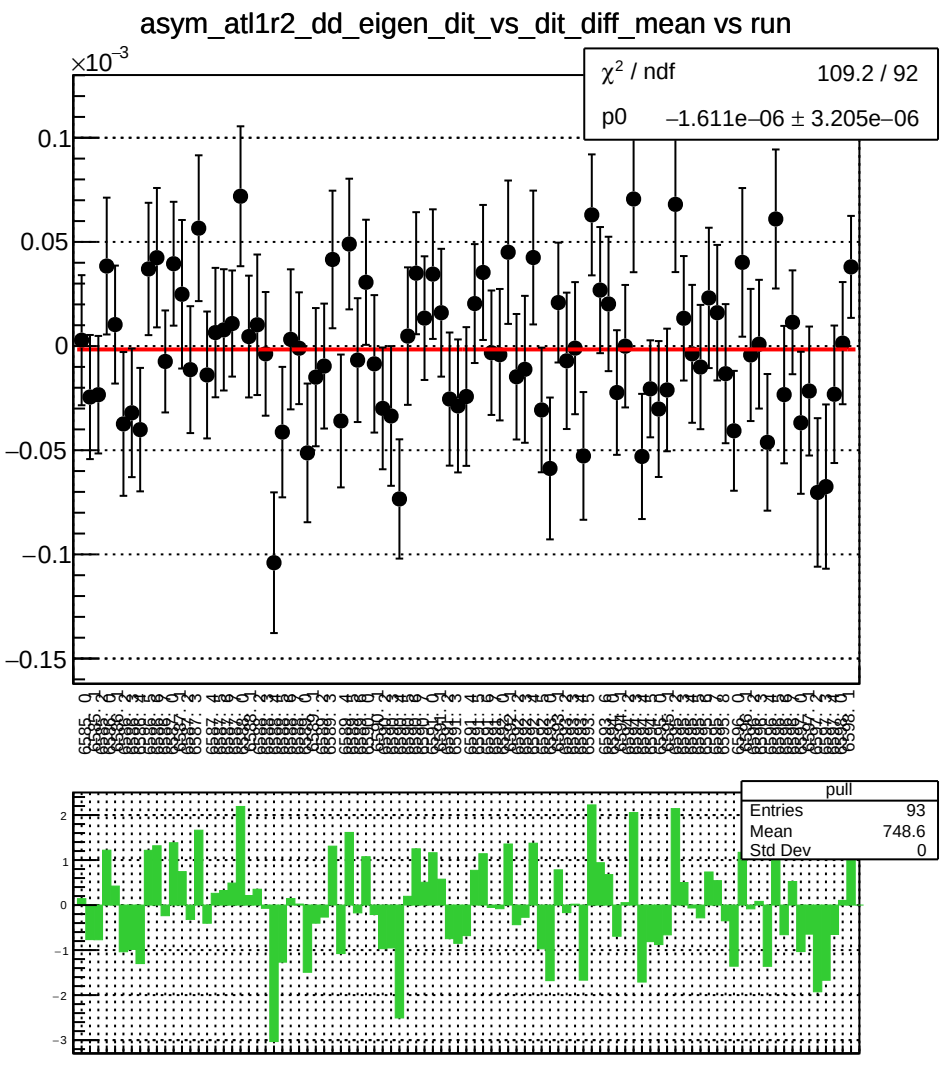

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.78 / 92
p0 0.2487 ± 0.3414
pull
Entries 93
Mean 125.3
Std Dev 0
pull1D
Entries 93
Mean 0.002258
Std Dev 0.932

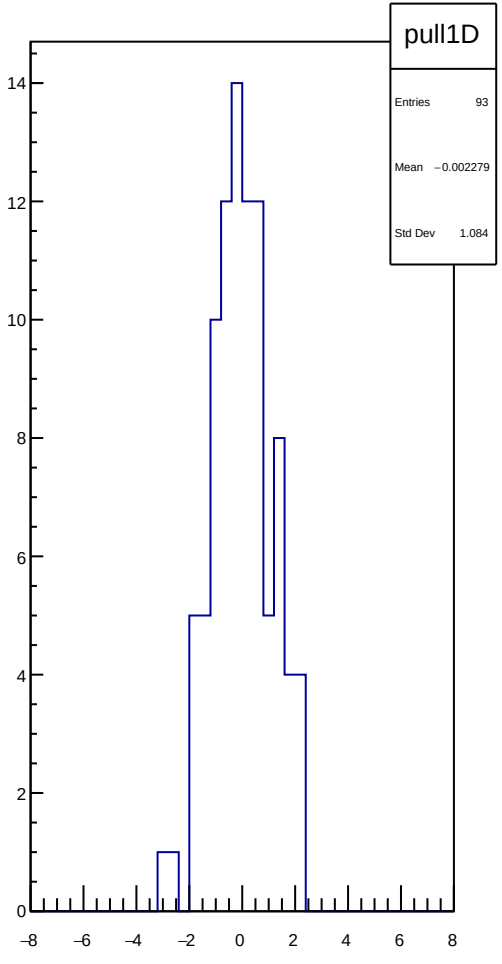

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.198e+04 / 92
p0 319.2 ± 0.2414
440
420
400
380
360
340
320
300
280
260
240

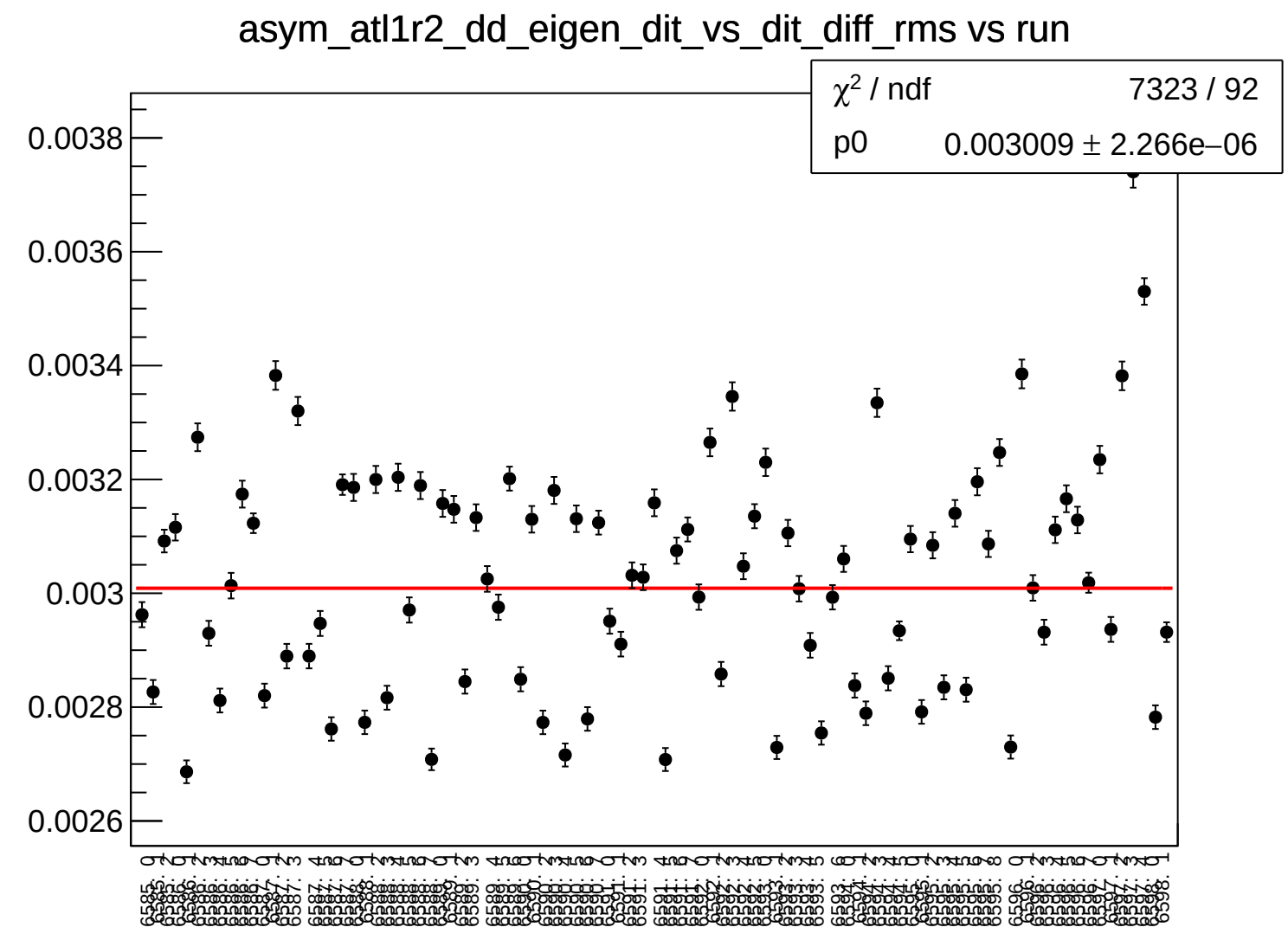

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.78 / 92
p0 0.2487 ± 0.3414
pull
Entries 93
Mean 125.3
Std Dev 0

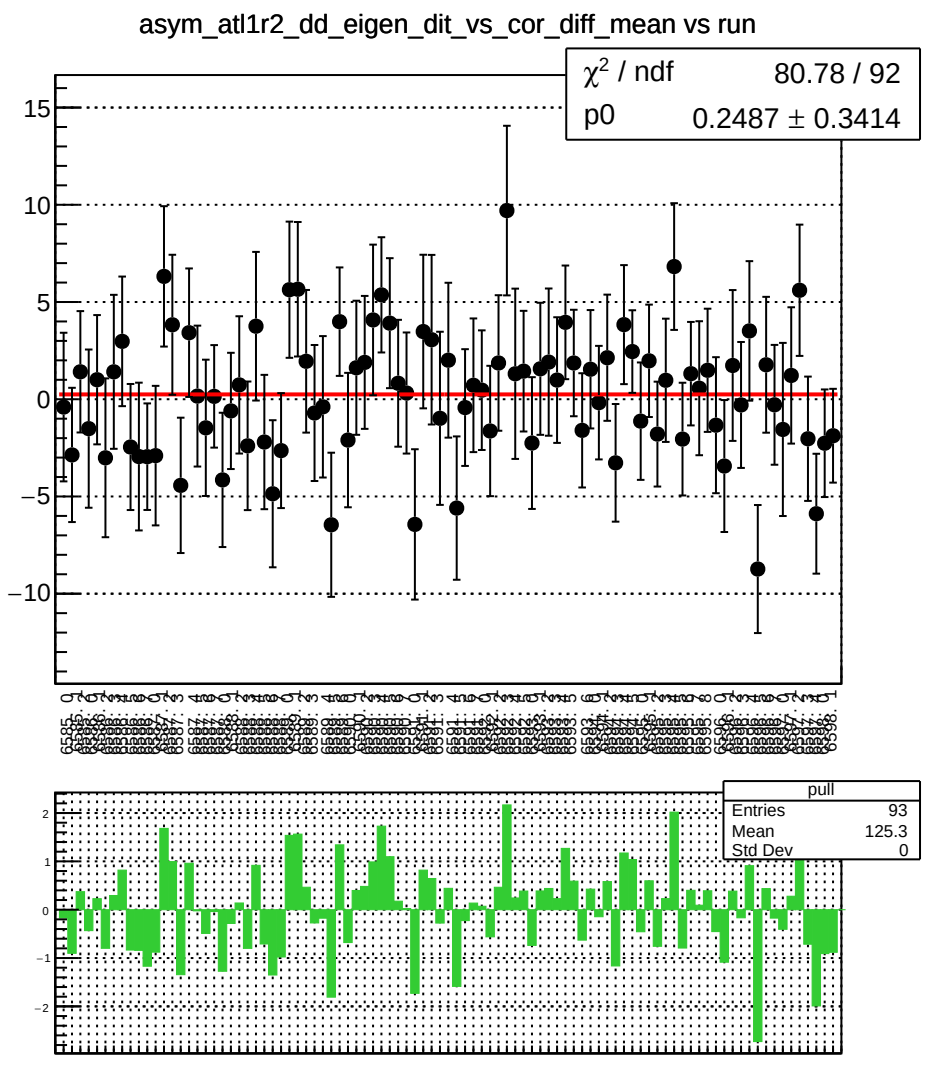

pull1D
Entries 93
Mean 0.002258
Std Dev 0.932

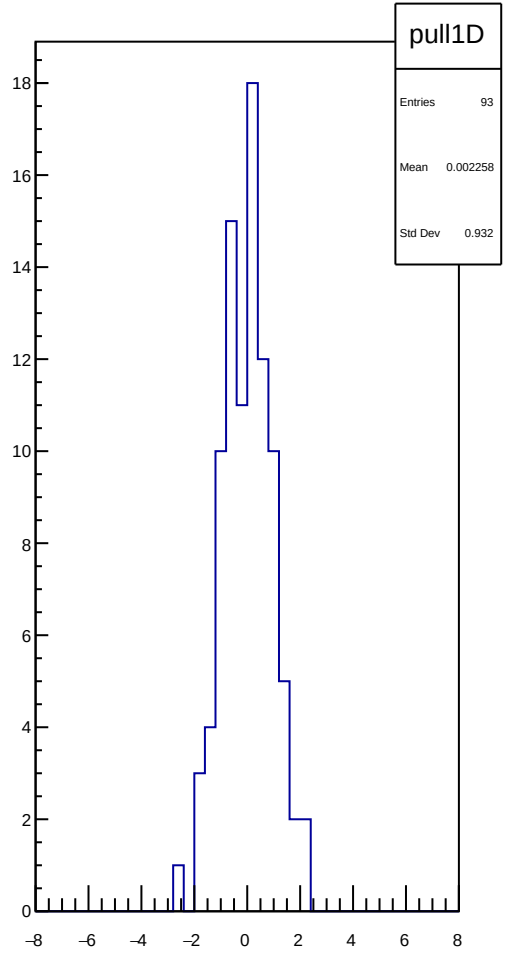

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.198e+04 / 92
p0 319.2 ± 0.2414
440
420
400
380
360
340
320
300
280
260
240

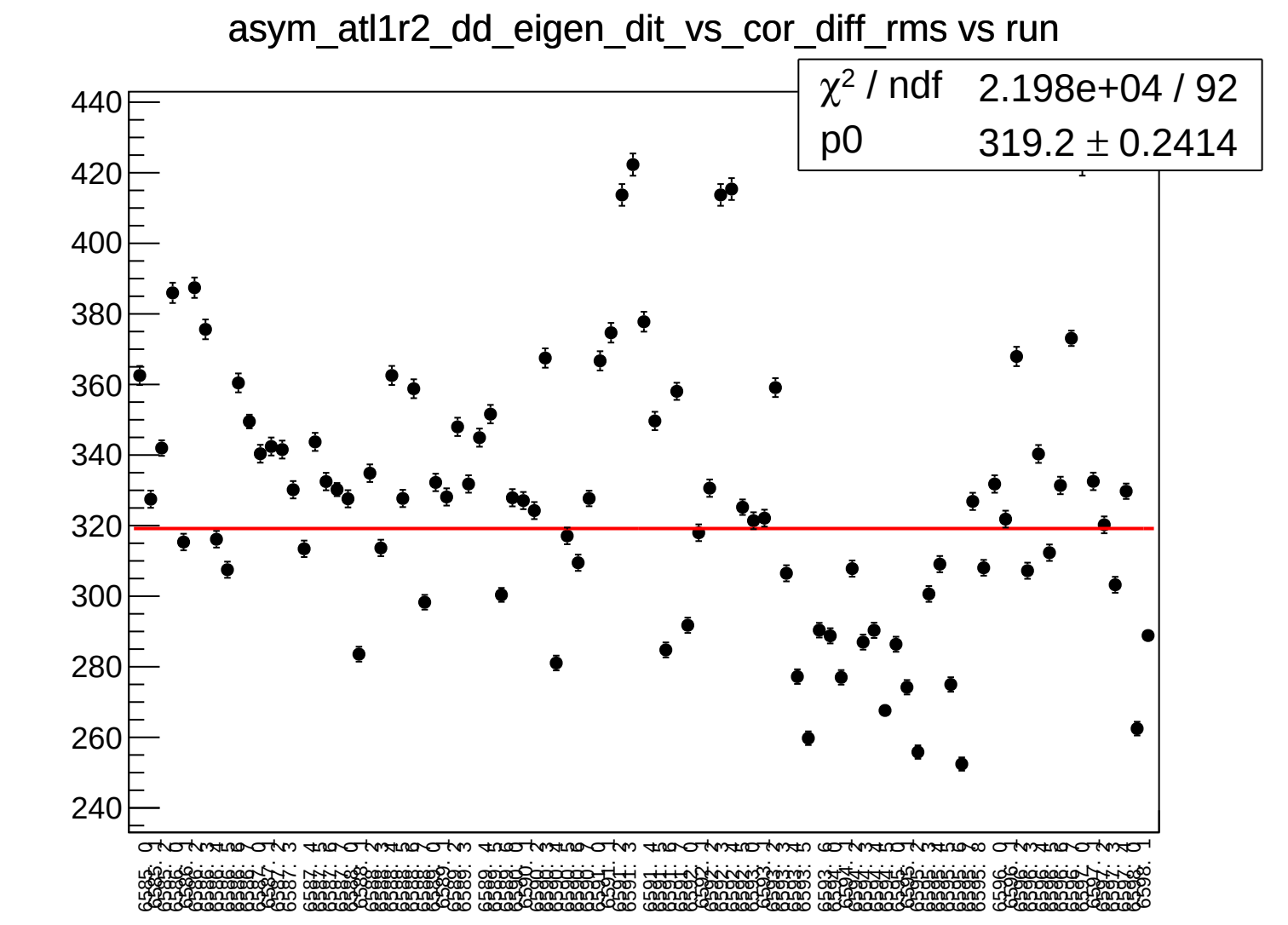

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.2 / 92
p0 −1.611e−06 ± 3.205e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 748.6
Std Dev 0
2
1
0
−1
−2
−3

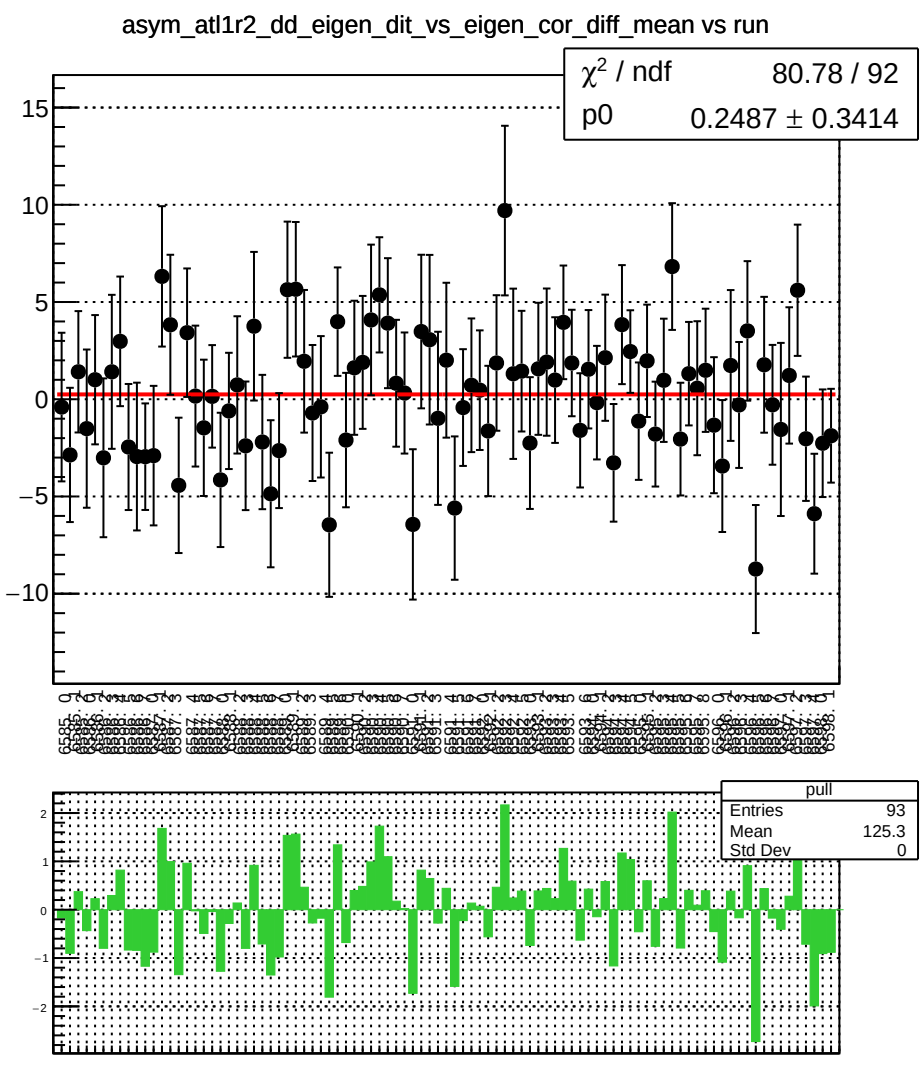

pull1D
Entries 93
Mean −0.002279
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

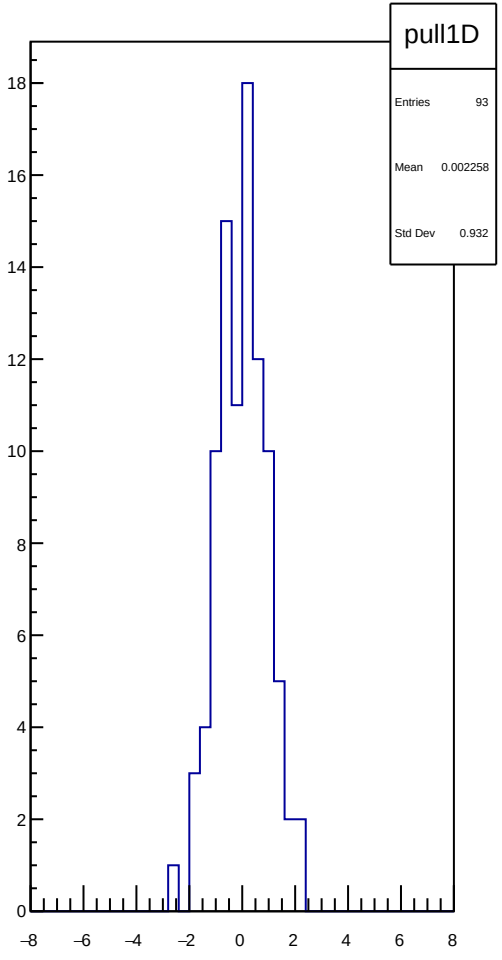

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7323 / 92
p0 0.003009 ± 2.266e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

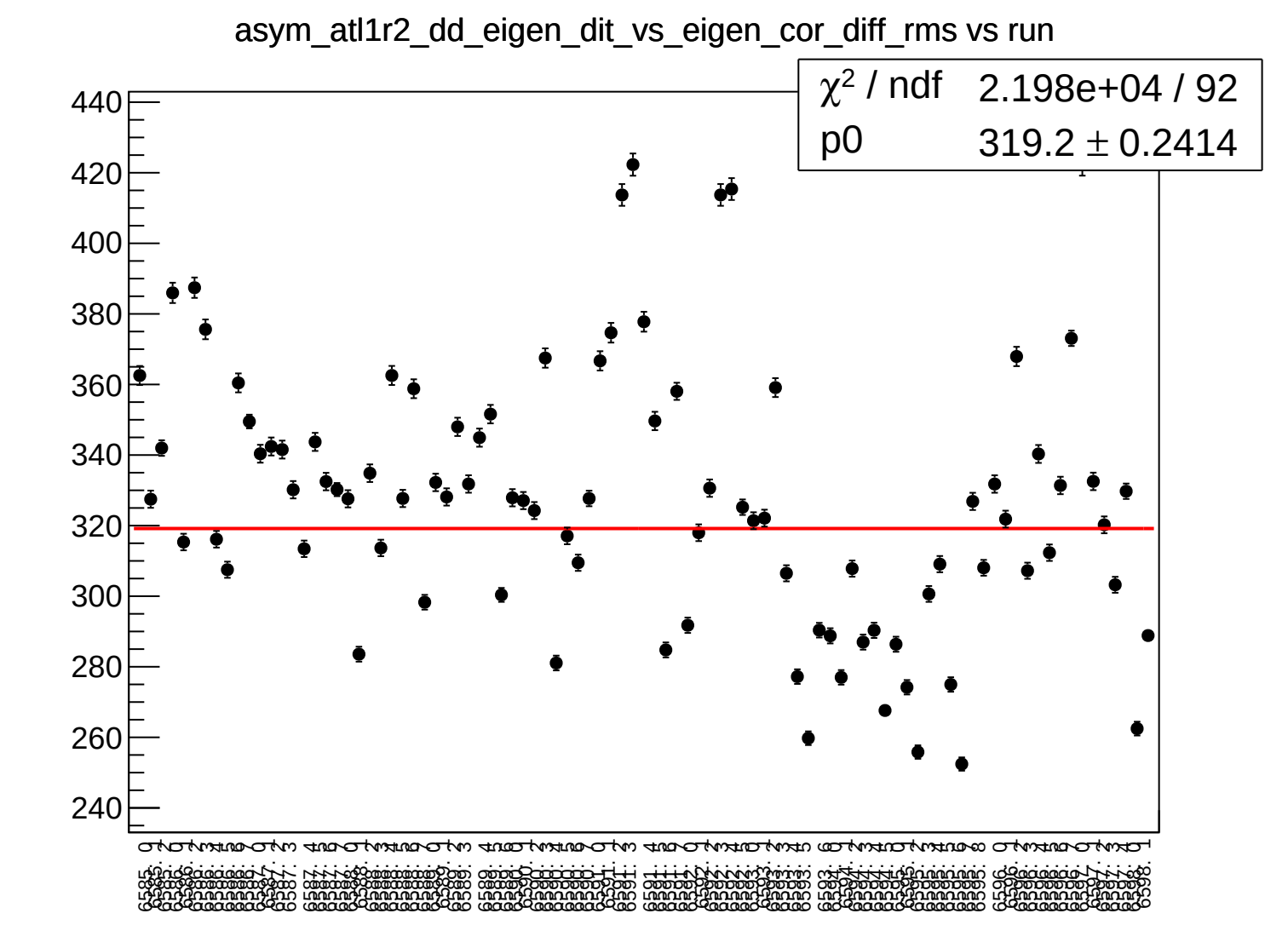

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.78 / 92
p0 0.2487 ± 0.3414
15
10
5
0
−5
−10
pull
Entries 93
Mean 125.3
Std Dev 0
2
1
0
−1
−2

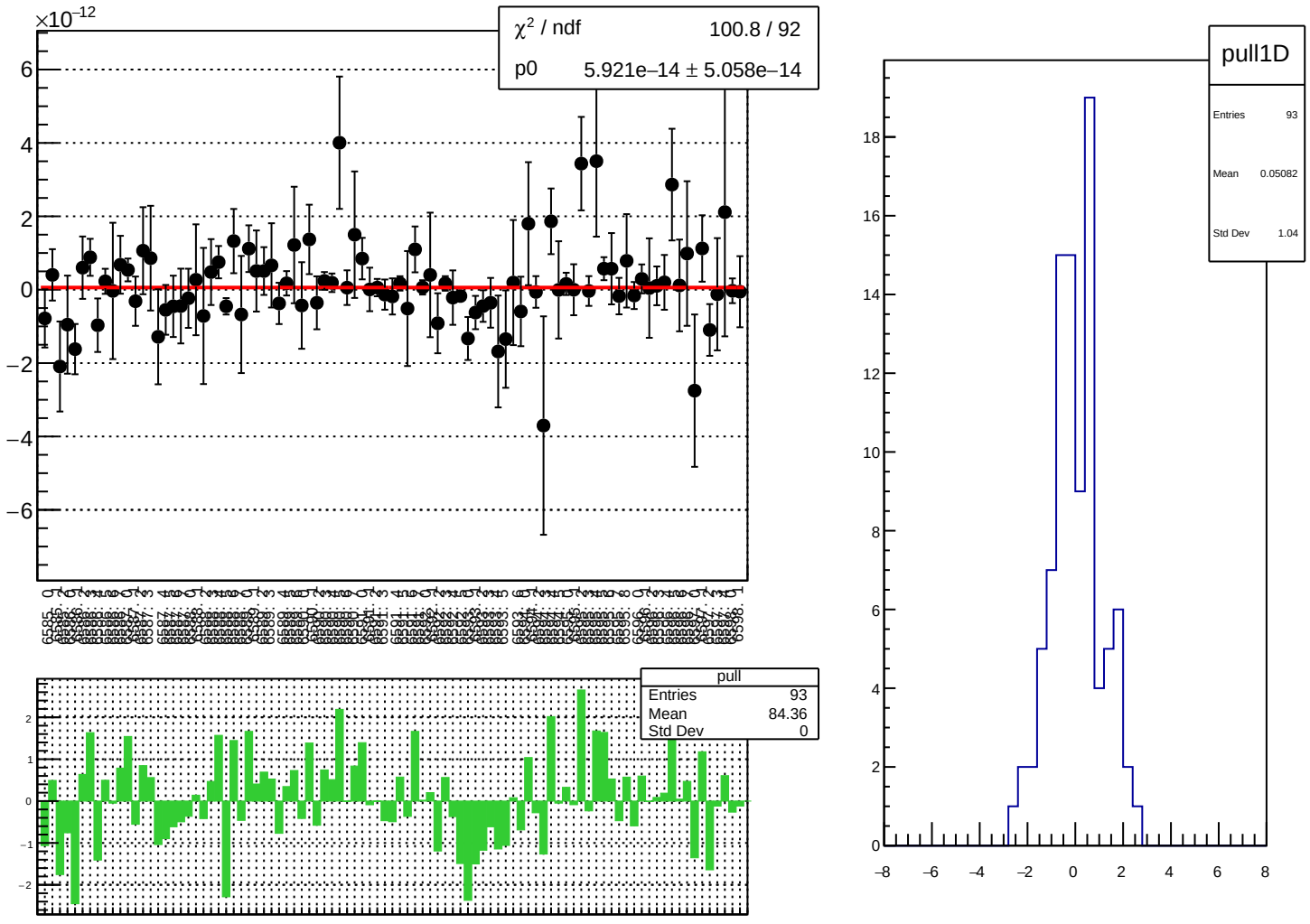

pull1D
Entries 93
Mean 0.002258
Std Dev 0.932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

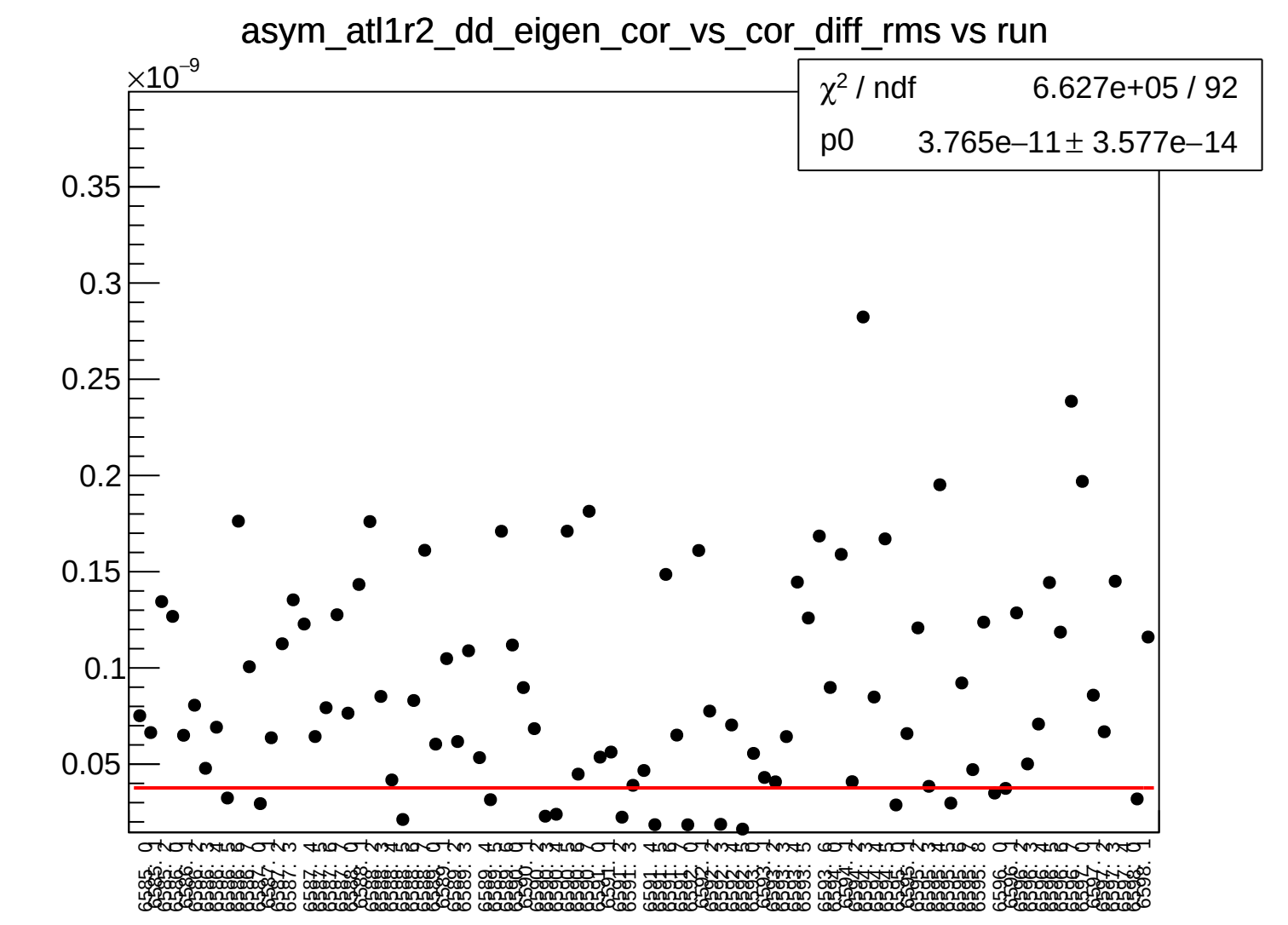

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.198e+04 / 92
p0 319.2 ± 0.2414
440
420
400
380
360
340
320
300
280
260
240

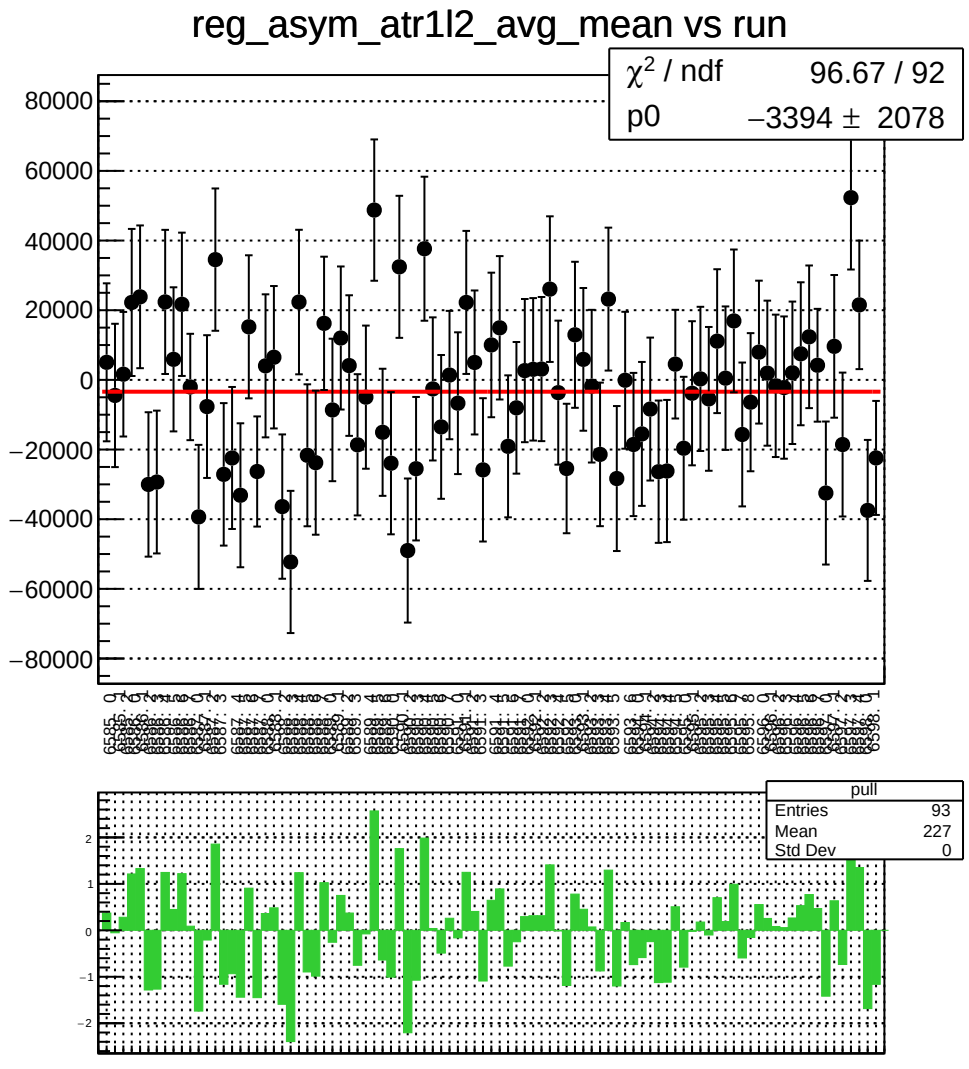

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.78 / 92
p0 0.2487 ± 0.3414
pull
Entries 93
Mean 125.3
Std Dev 0

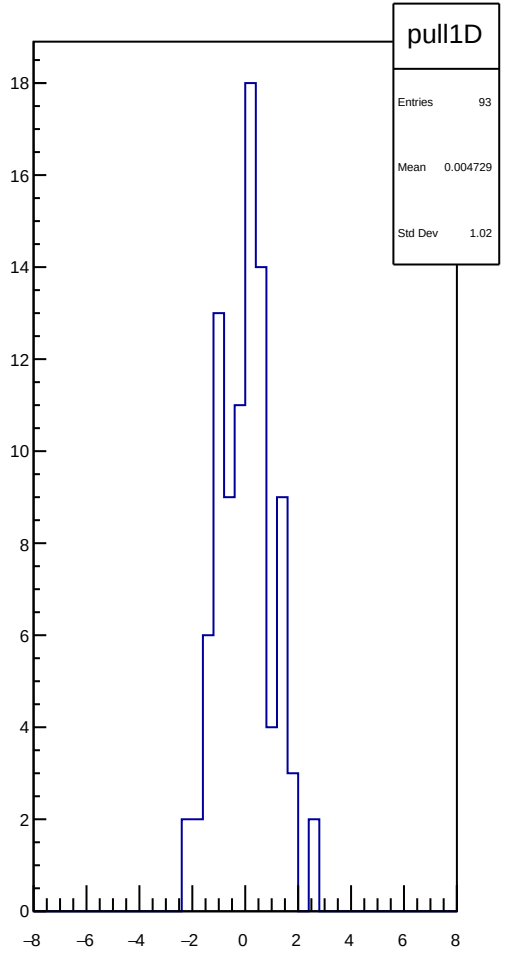

pull1D
Entries 93
Mean 0.002258
Std Dev 0.932

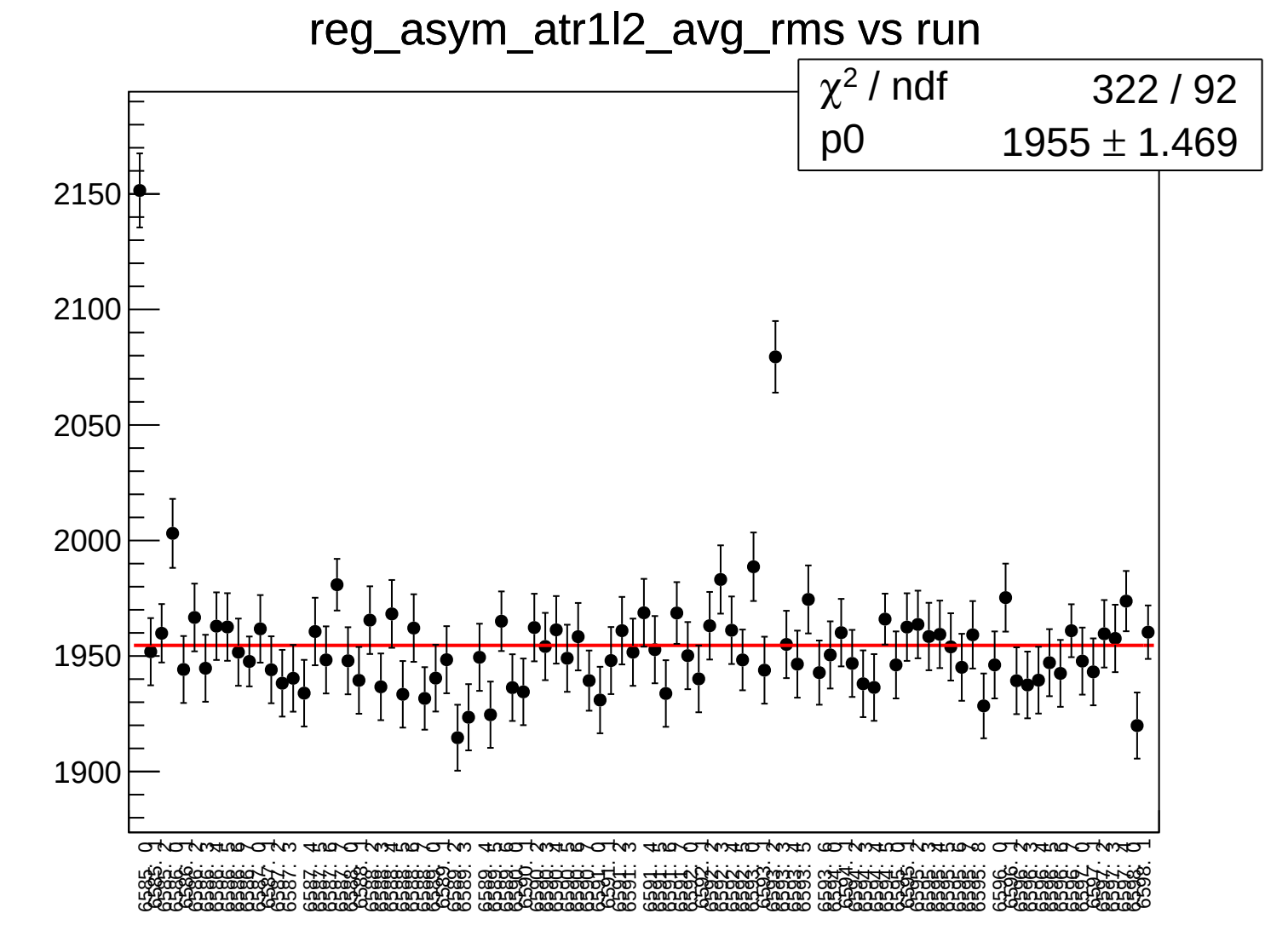

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.198e+04 / 92
p0 319.2 ± 0.2414
440
420
400
380
360
340
320
300
280
260
240

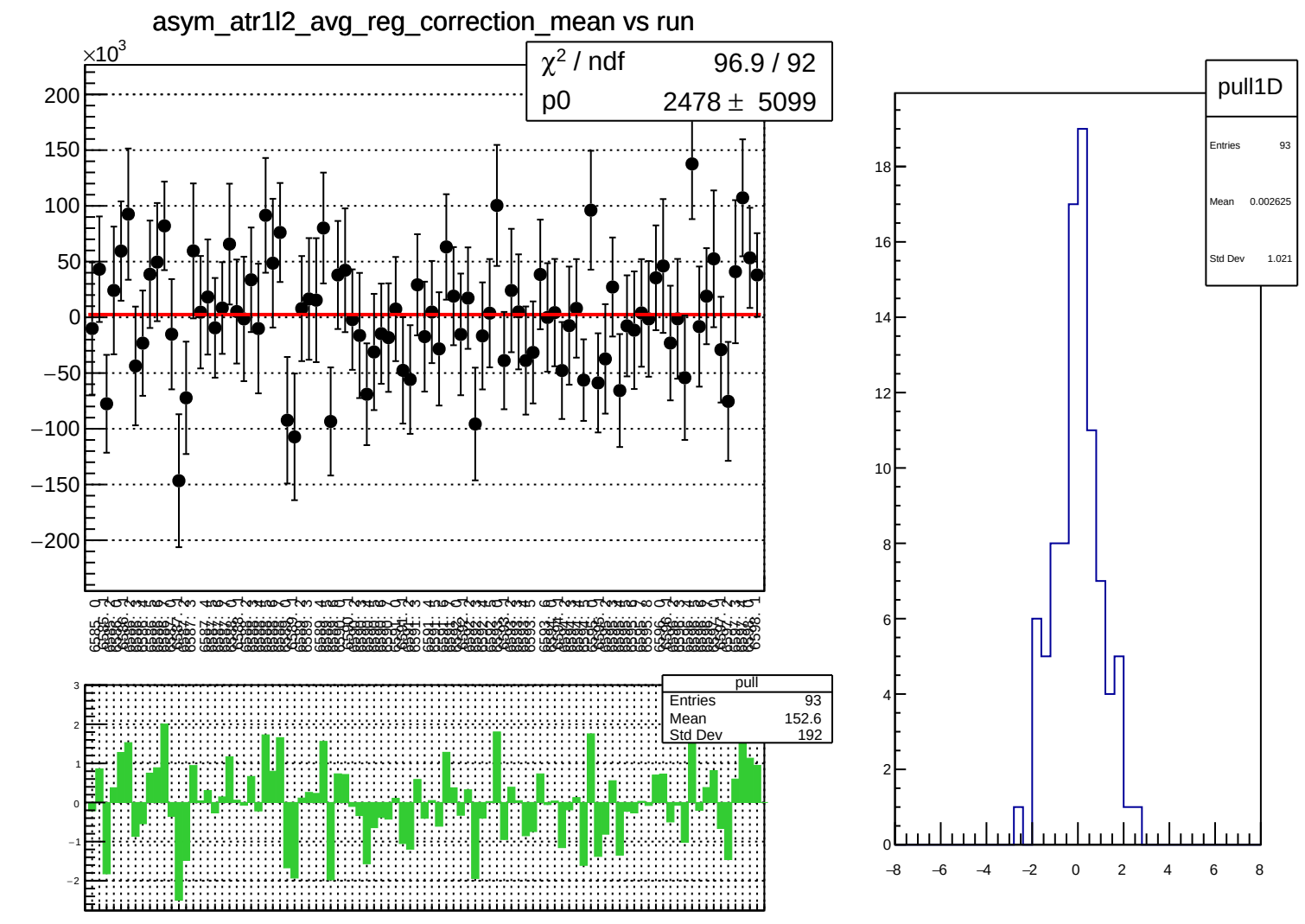

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.8 / 92
p0 5.921e−14 ± 5.058e−14
pull
Entries 93
Mean 84.36
Std Dev 0
pull1D
Entries 93
Mean 0.05082
Std Dev 1.04

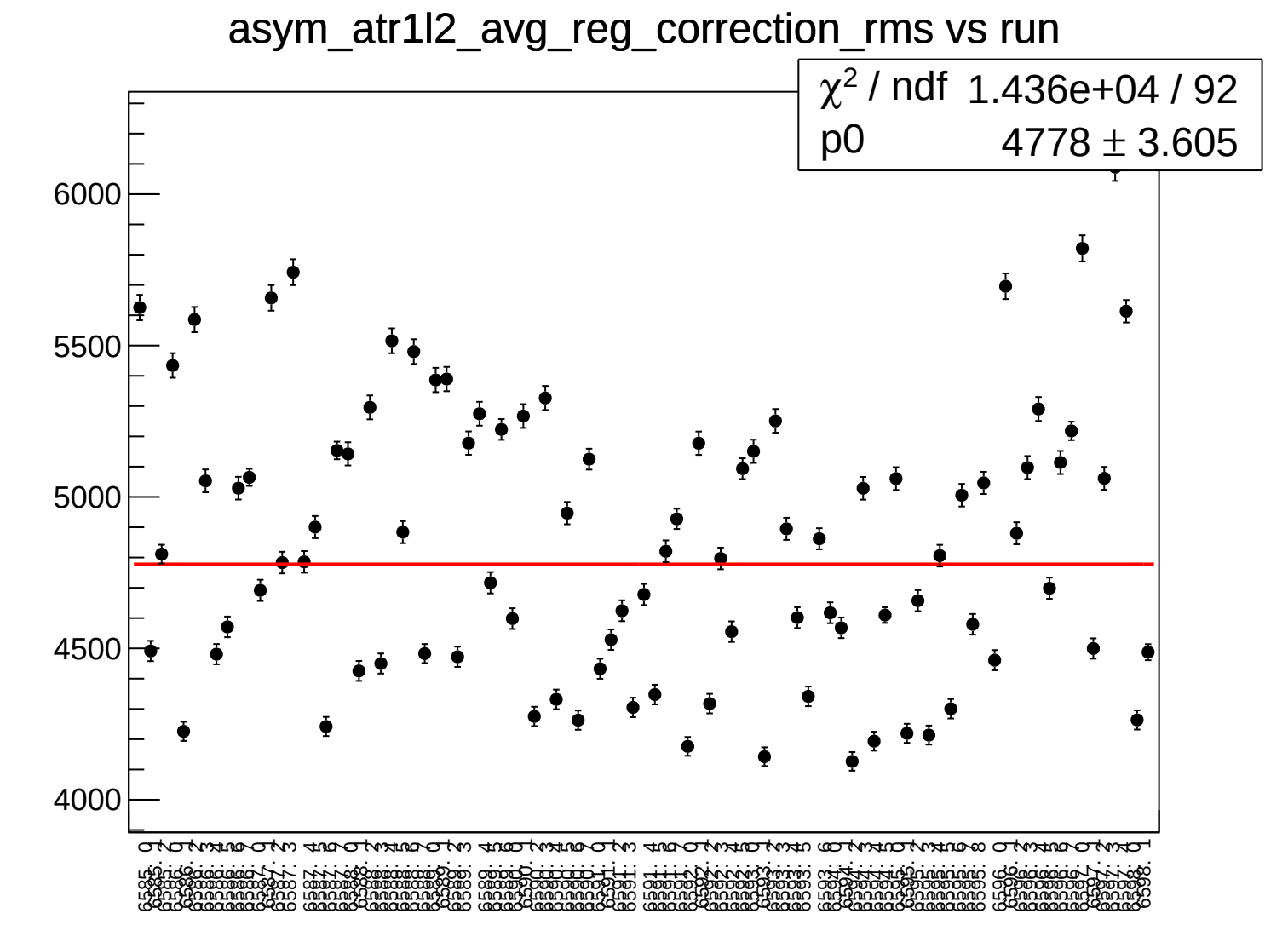

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.627e+05 / 92
p0 3.765e−11 ± 3.577e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

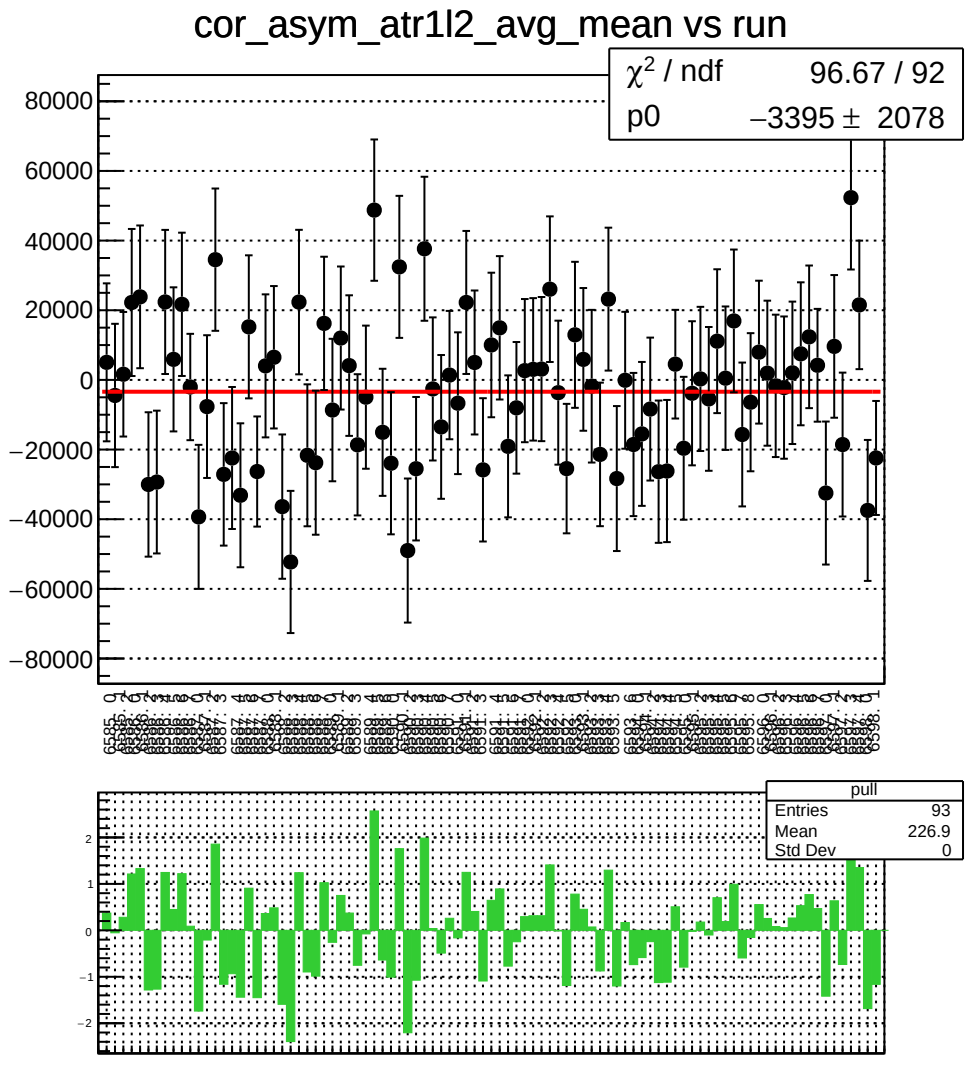

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 96.67 / 92
p0 −3394 ± 2078
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 227
Std Dev 0
2
1
0
−1
−2

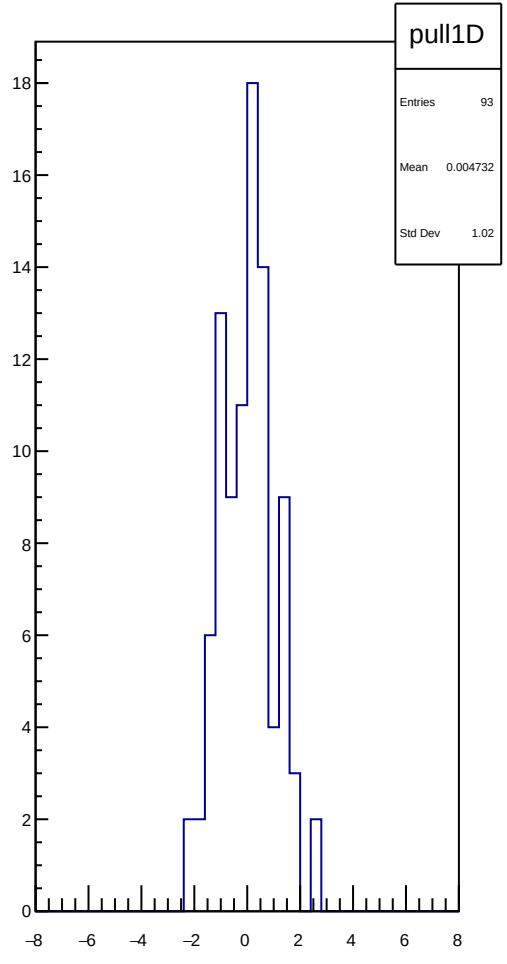

pull1D
Entries 93
Mean 0.004729
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

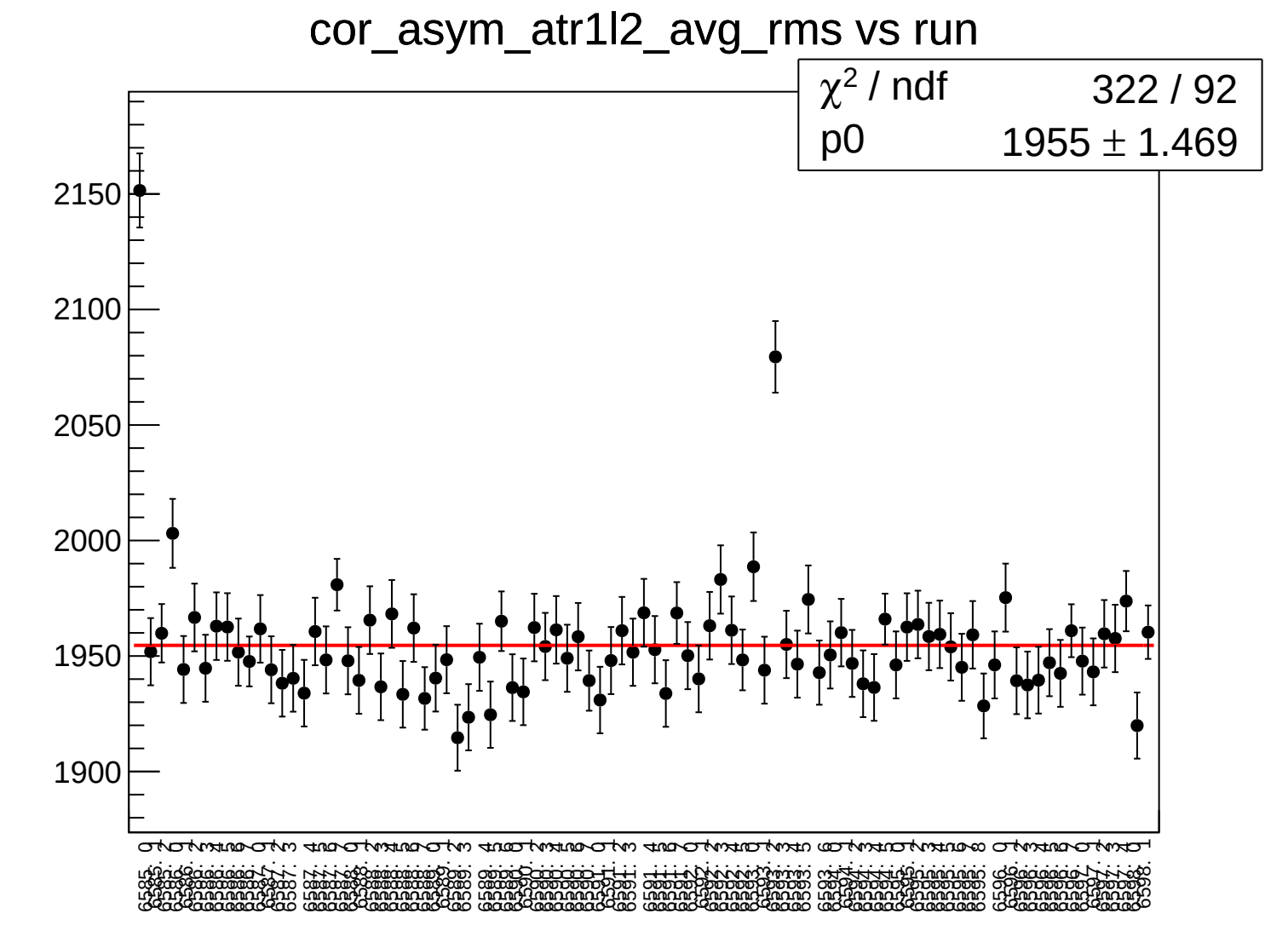

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 322 / 92
p0 1955 ± 1.469
2150
2100
2050
2000
1950
1900

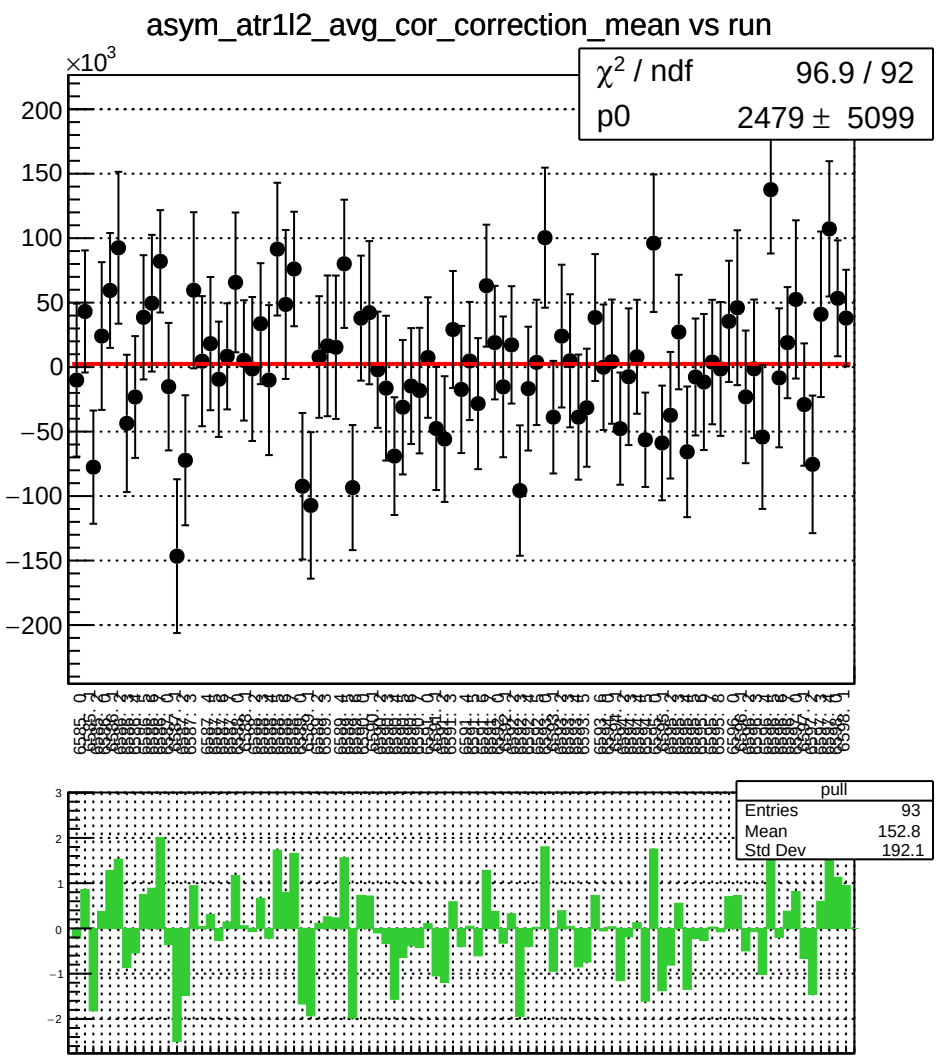

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 96.9 / 92
p0 2478 ± 5099
pull
Entries 93
Mean 152.6
Std Dev 192
pull1D
Entries 93
Mean 0.002625
Std Dev 1.021

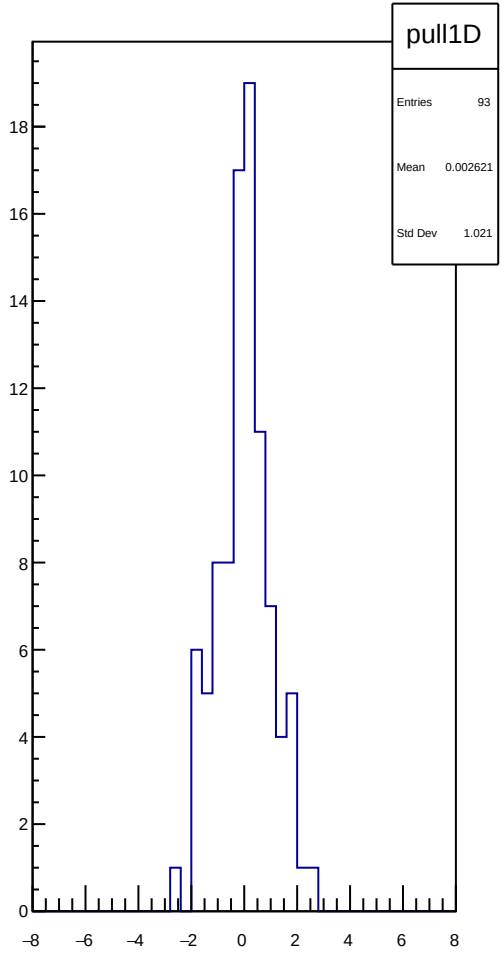

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.436e+04 / 92
p0 4778 ± 3.605
6000
5500
5000
4500
4000

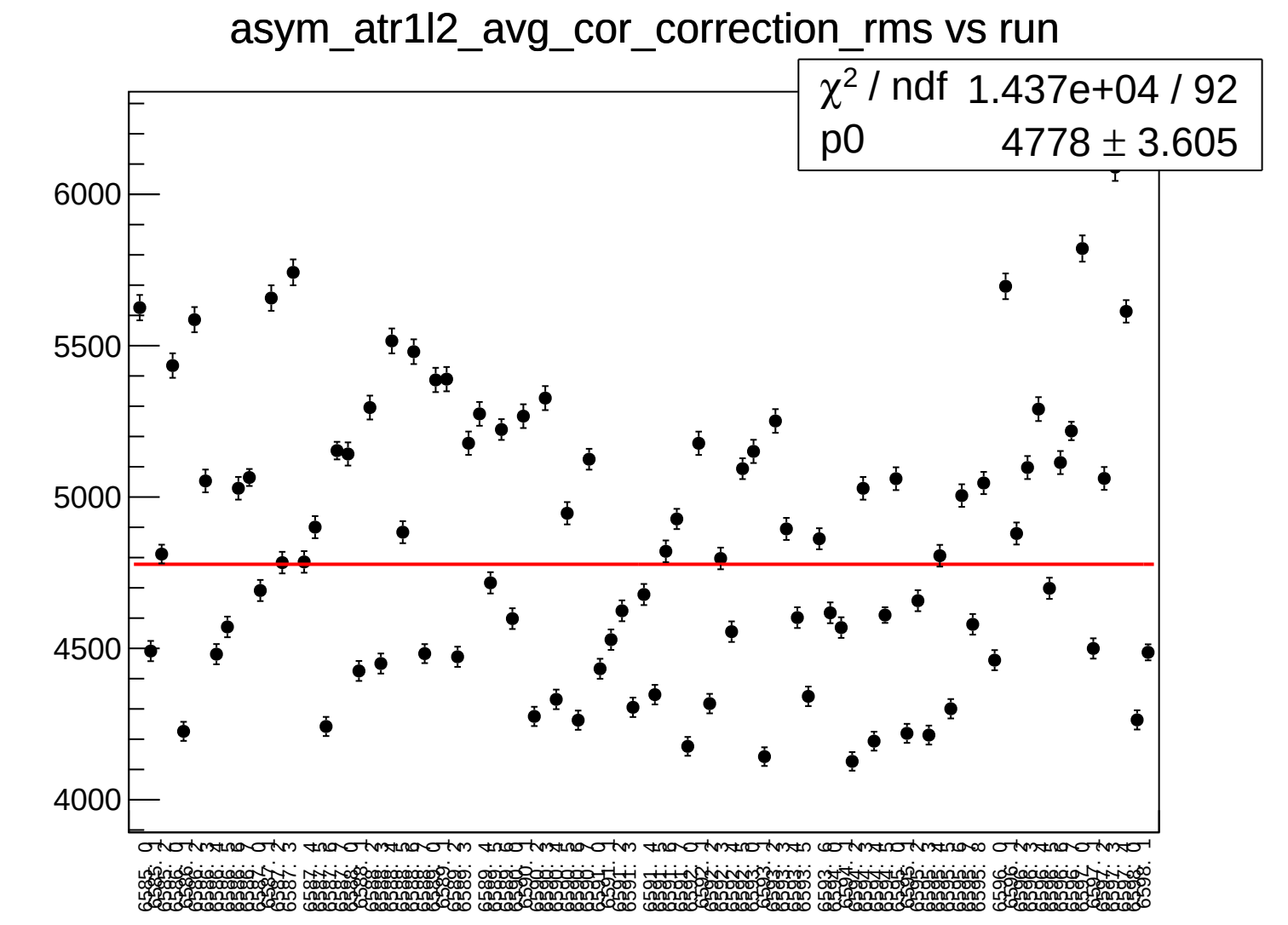

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 96.67 / 92
p0 −3395 ± 2078
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 226.9
Std Dev 0
2
1
0
−1
−2

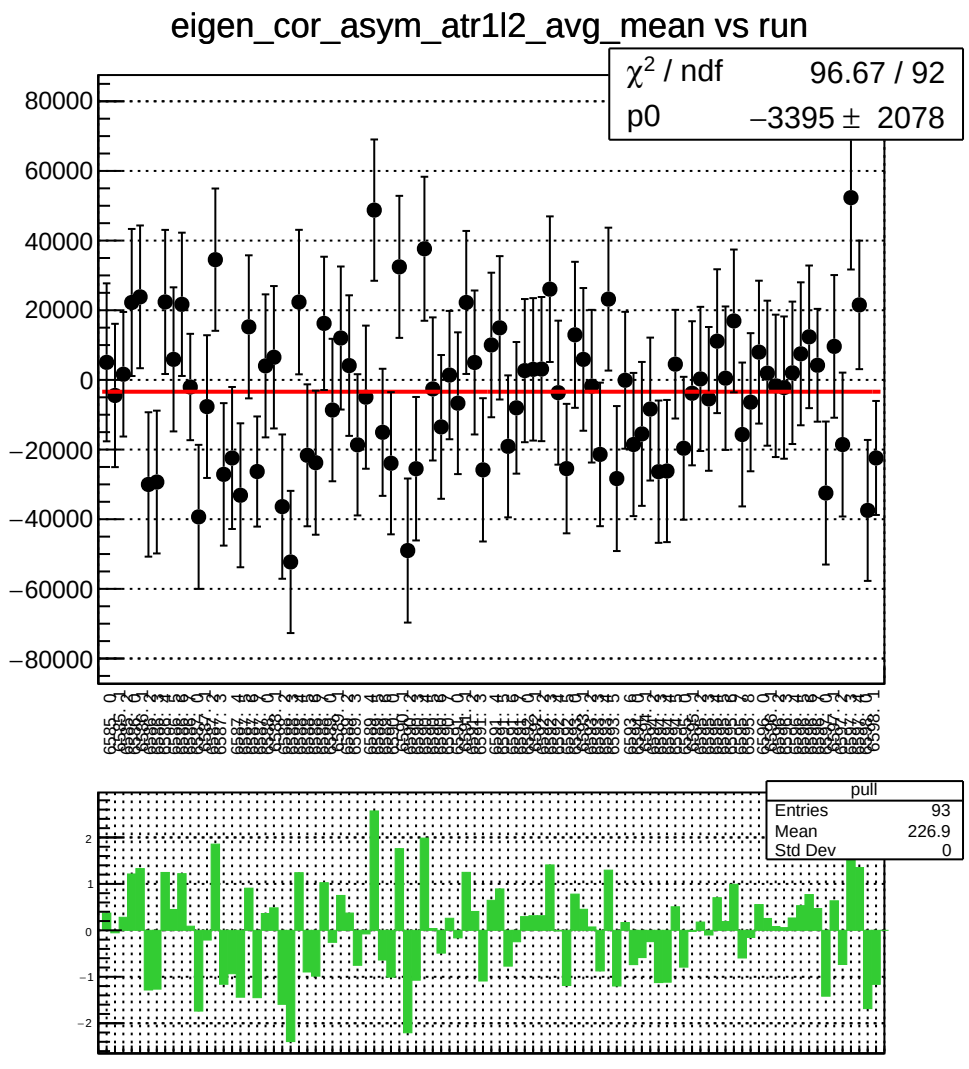

pull1D
Entries 93
Mean 0.004732
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

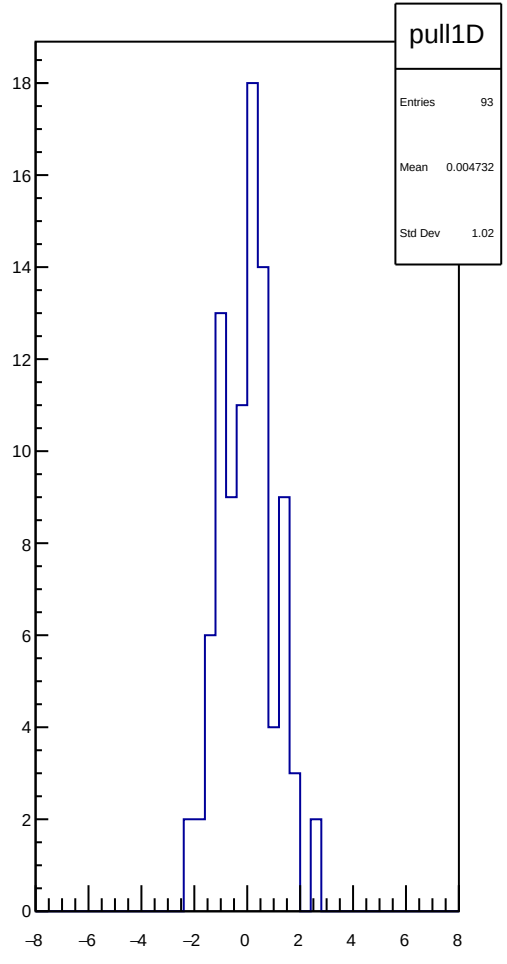

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 322 / 92
p0 1955 ± 1.469
2150
2100
2050
2000
1950
1900

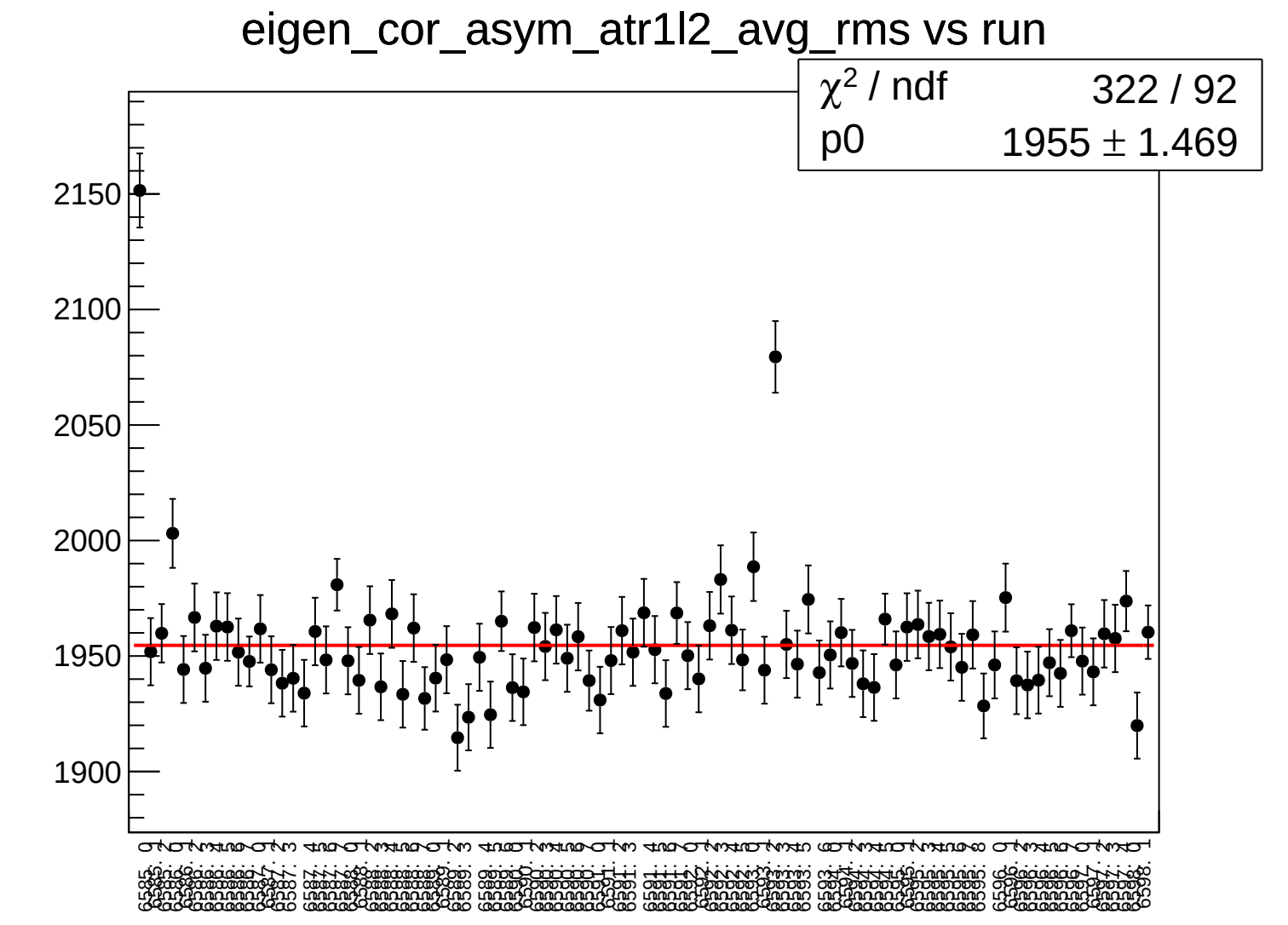

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.9 / 92
p0 2479 ± 5099
pull
Entries 93
Mean 152.8
Std Dev 192.1

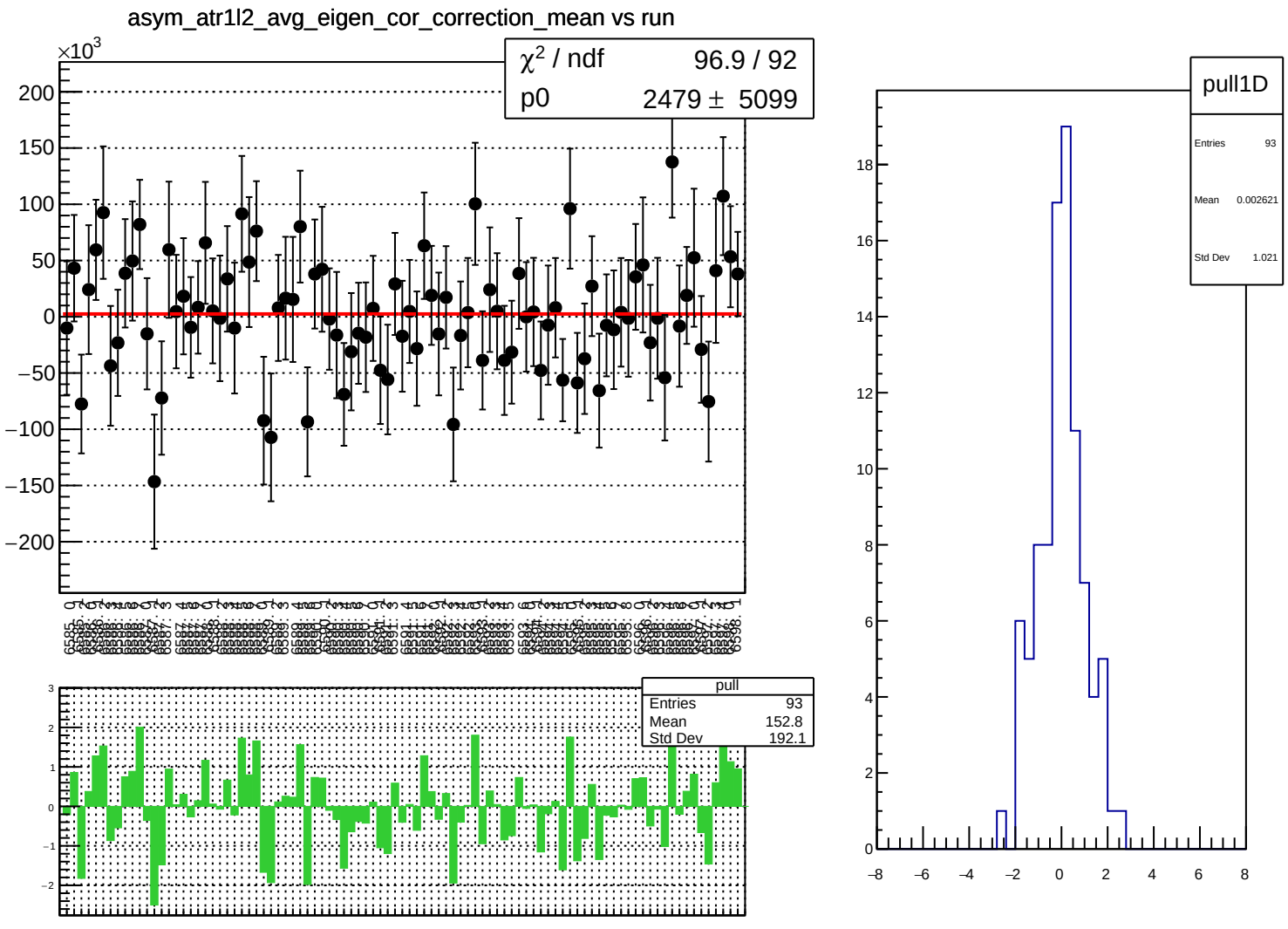

pull1D
Entries 93
Mean 0.002621
Std Dev 1.021

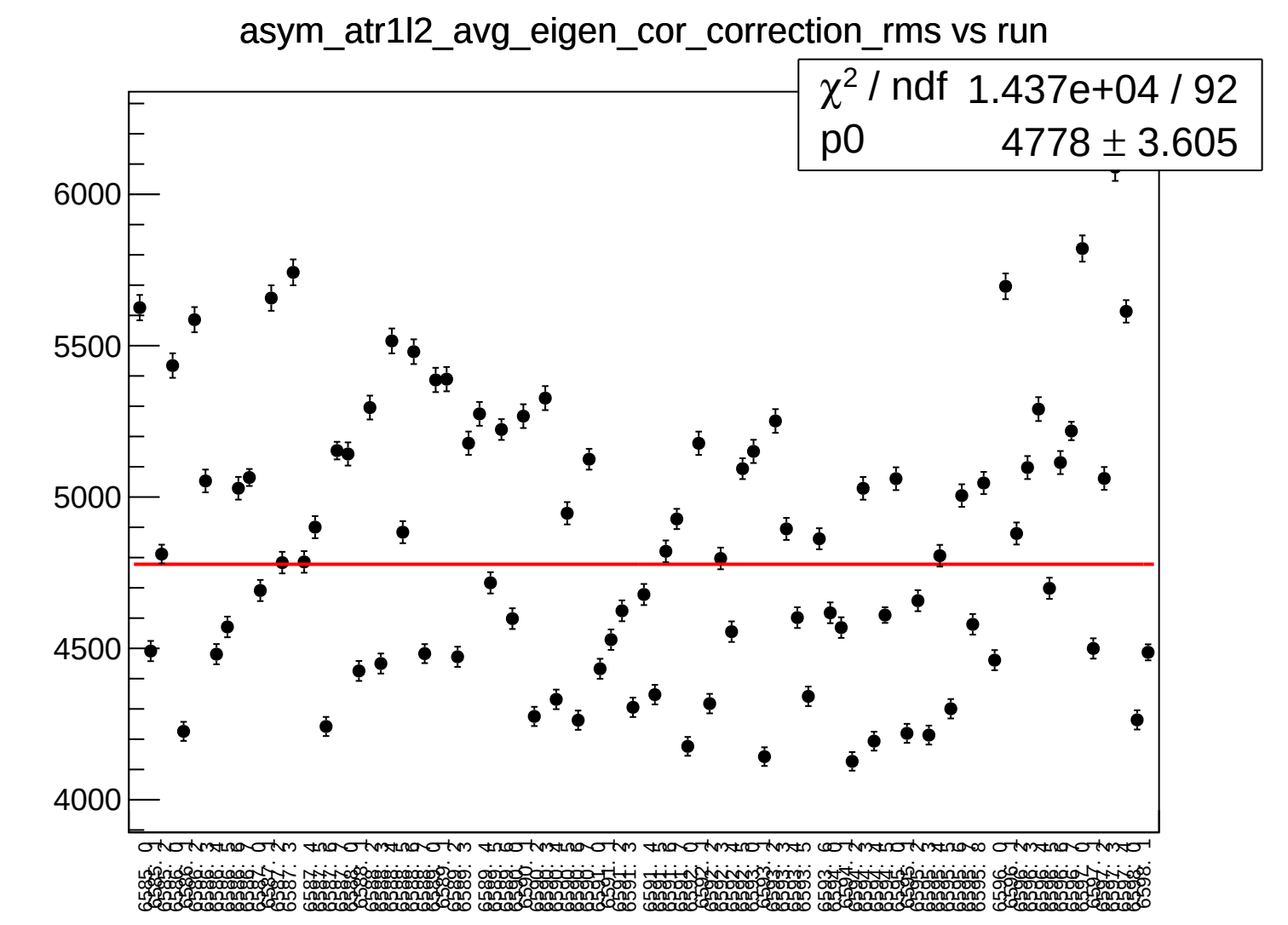

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.437e+04 / 92
p0 4778 ± 3.605
6000
5500
5000
4500
4000

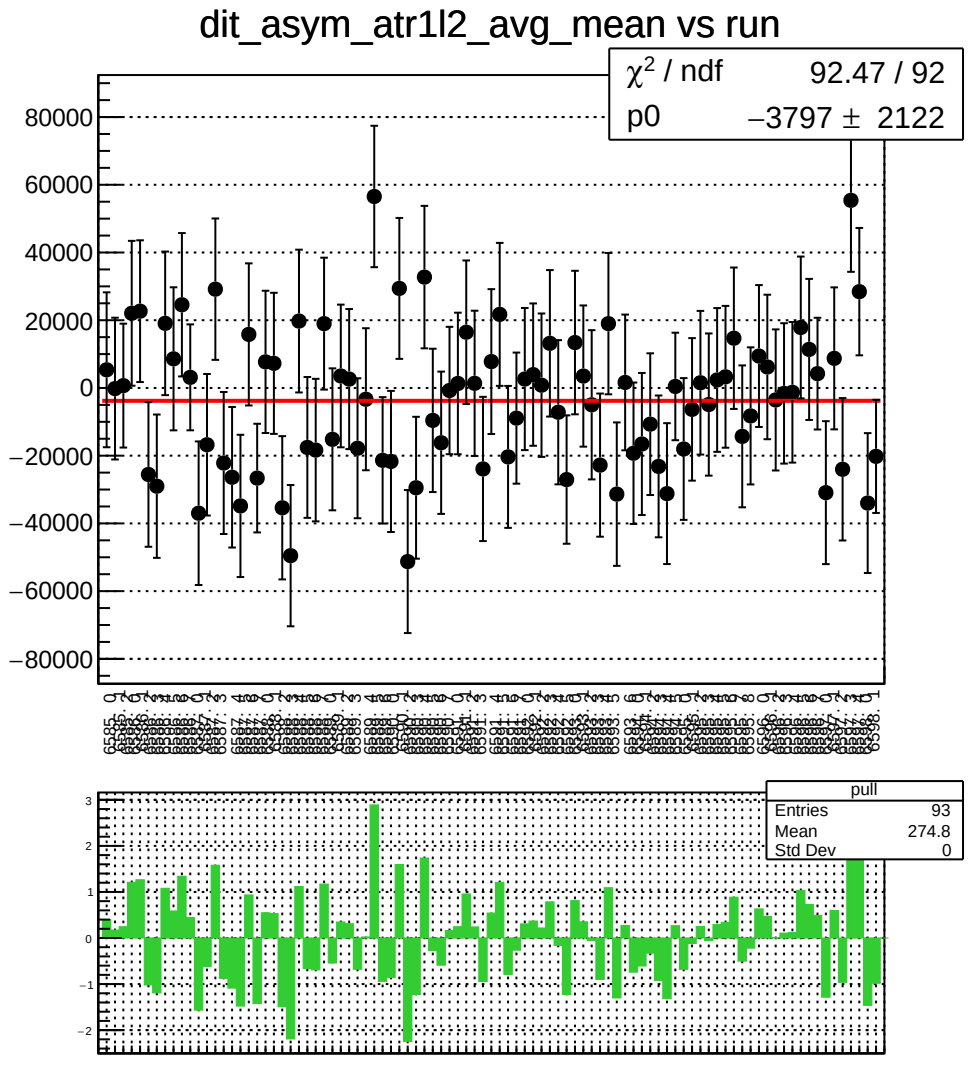

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 96.67 / 92
p0 −3395 ± 2078
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 226.9
Std Dev 0
2
1
0
−1
−2

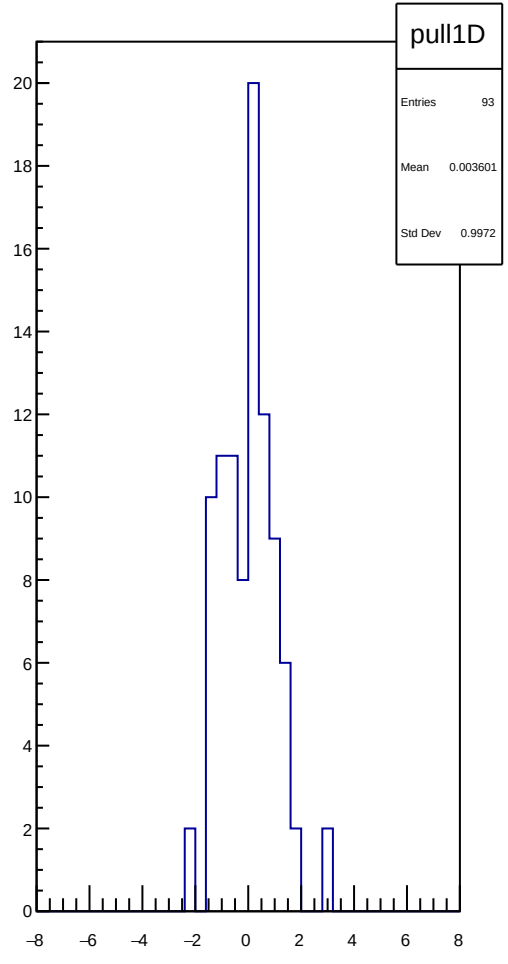

pull1D
Entries 93
Mean 0.004732
Std Dev 1.02
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

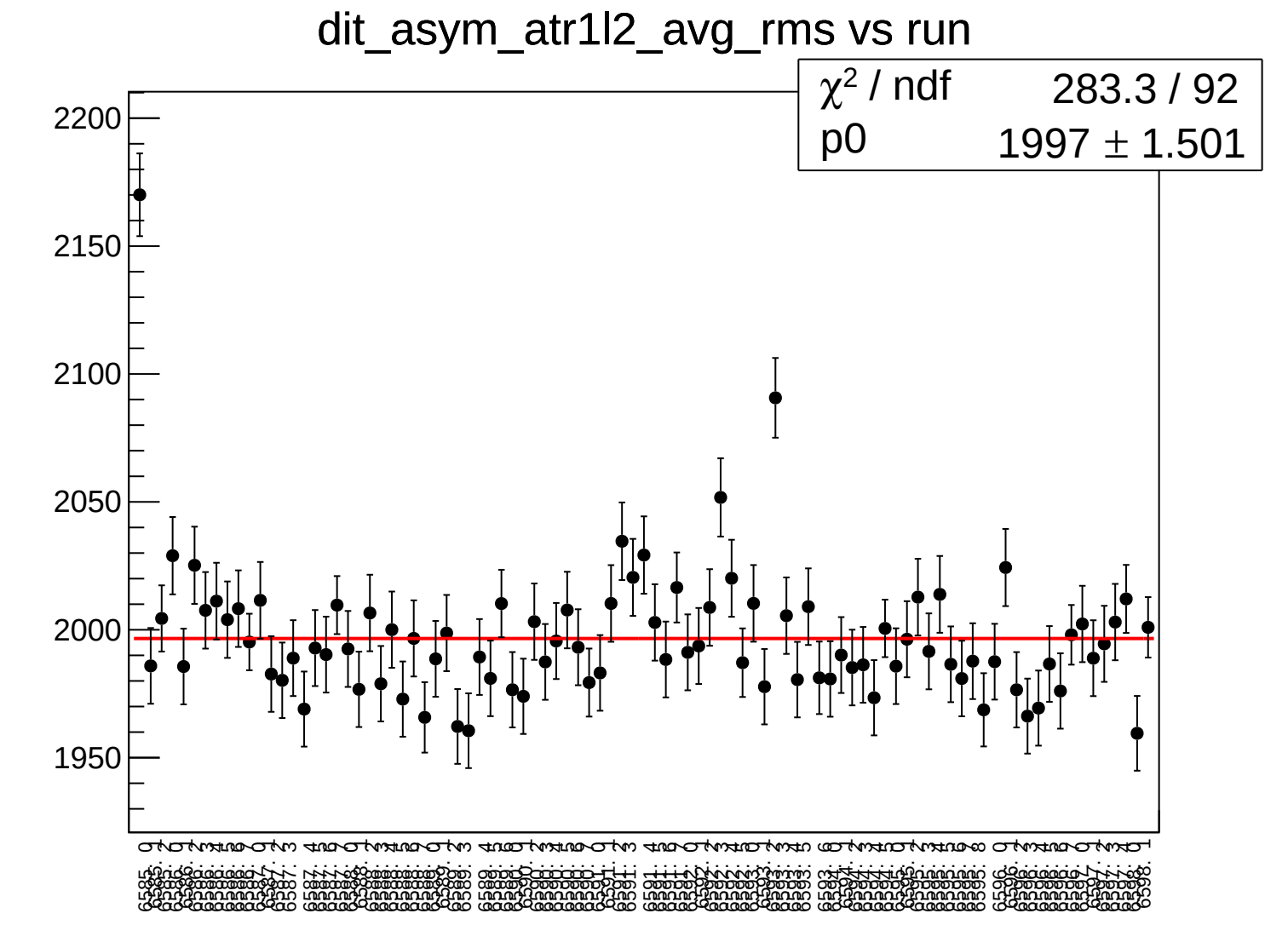

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 322 / 92
p0 1955 ± 1.469
2150
2100
2050
2000
1950
1900

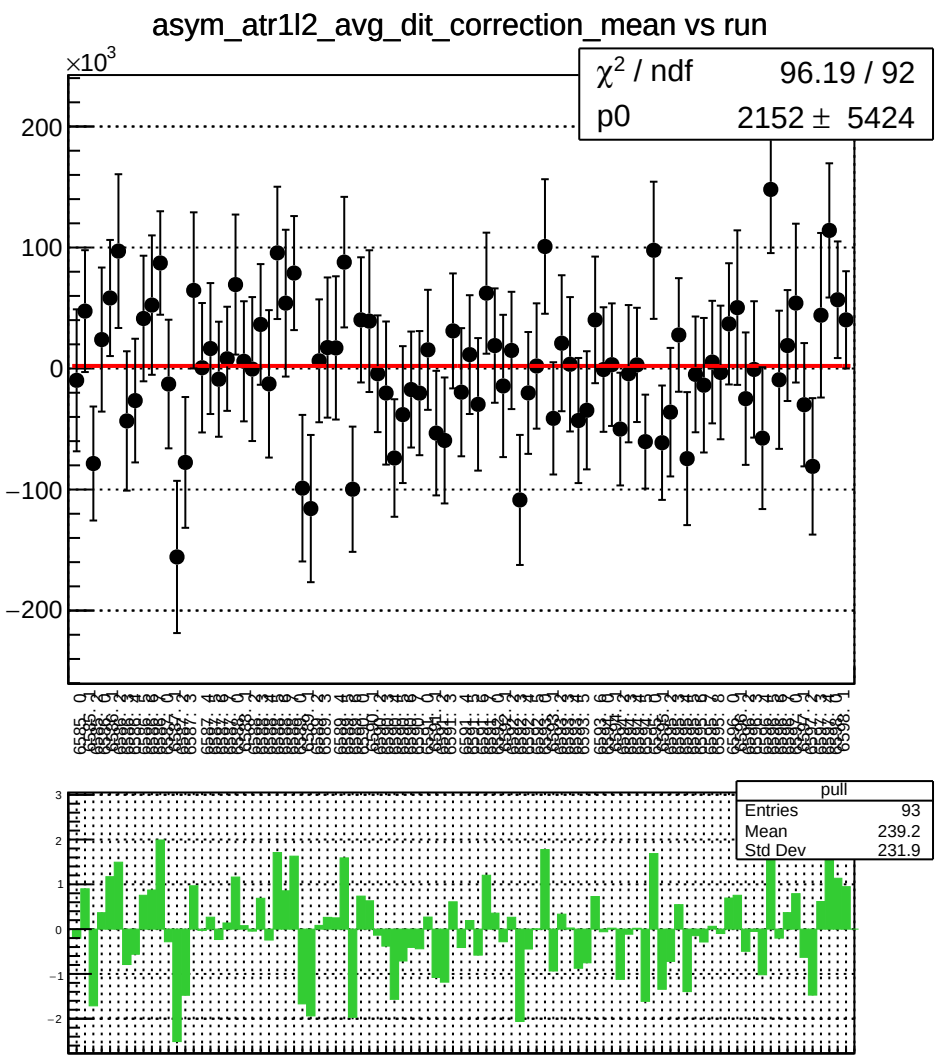

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.9 / 92
p0 2479 ± 5099
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 152.8
Std Dev 192.1
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002621
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

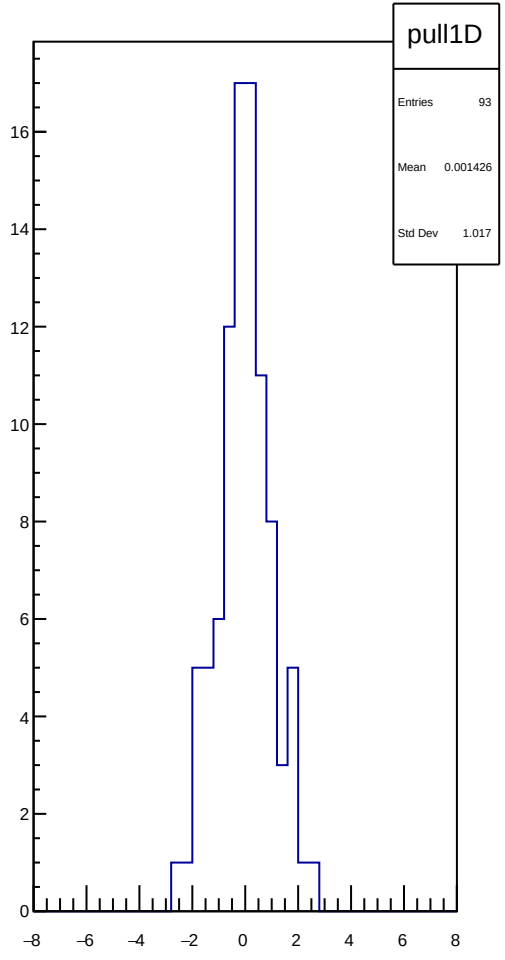

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.437e+04 / 92
p0 4778 ± 3.605
6000
5500
5000
4500
4000

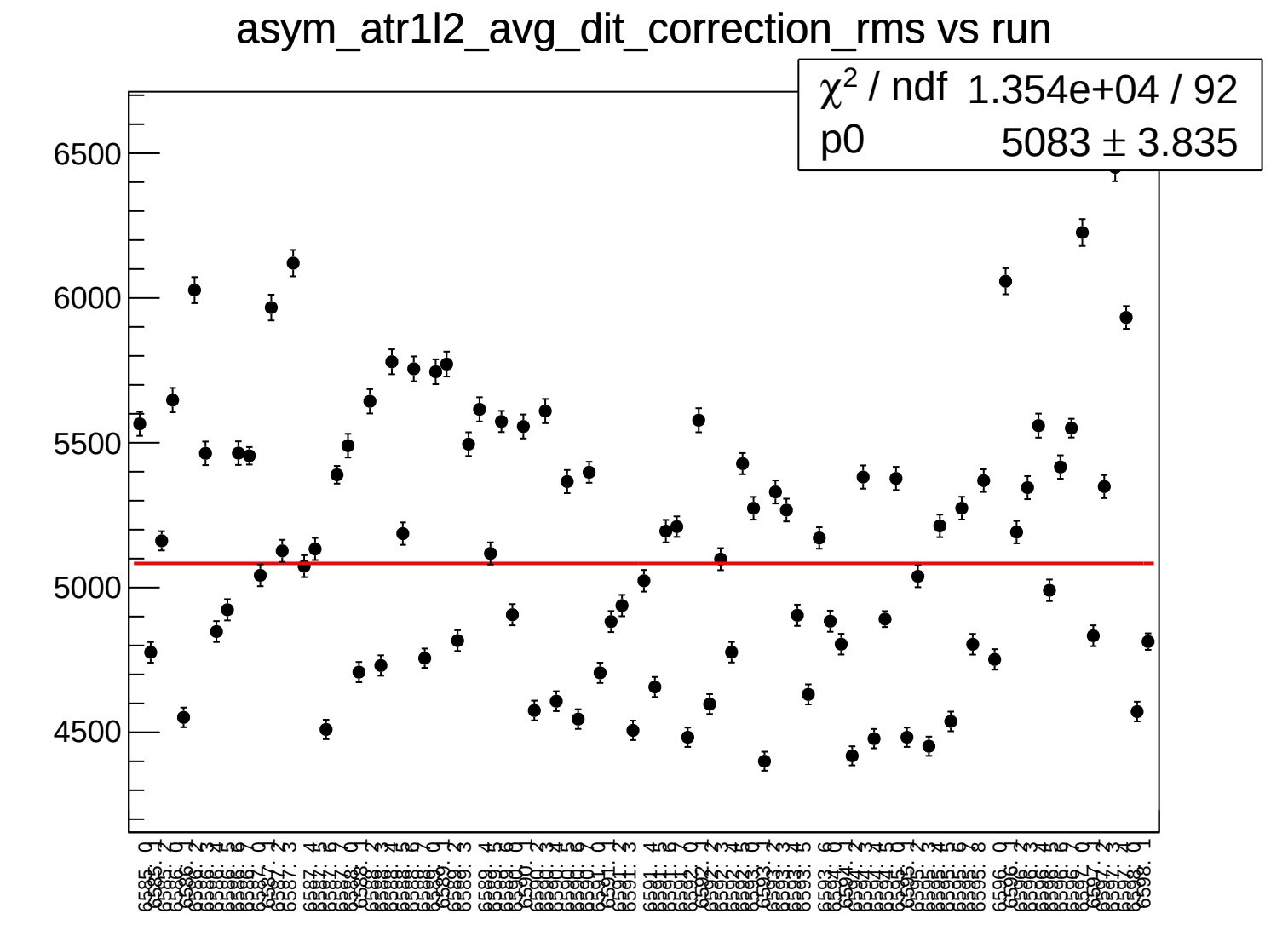

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 92.47 / 92
p0 −3797 ± 2122
pull
Entries 93
Mean 274.8
Std Dev 0

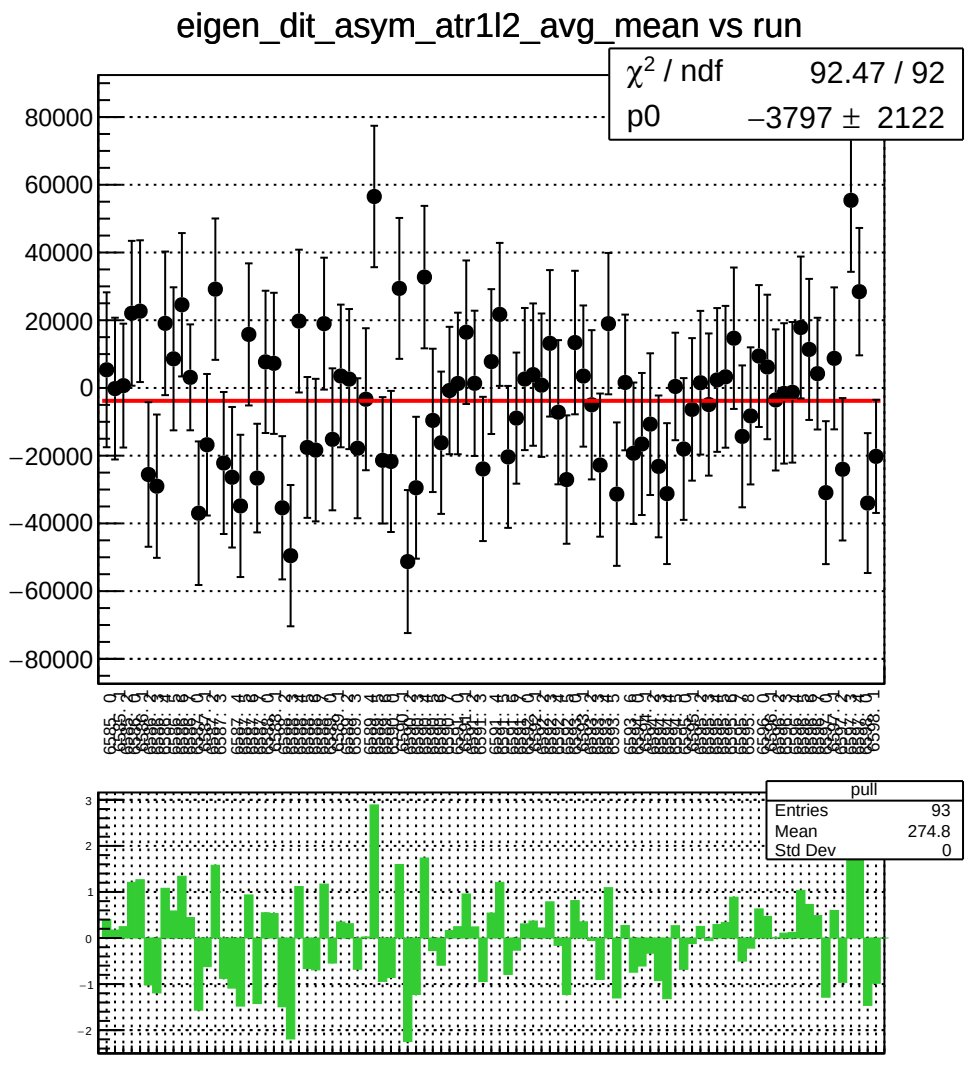

pull1D
Entries 93
Mean 0.003601
Std Dev 0.9972

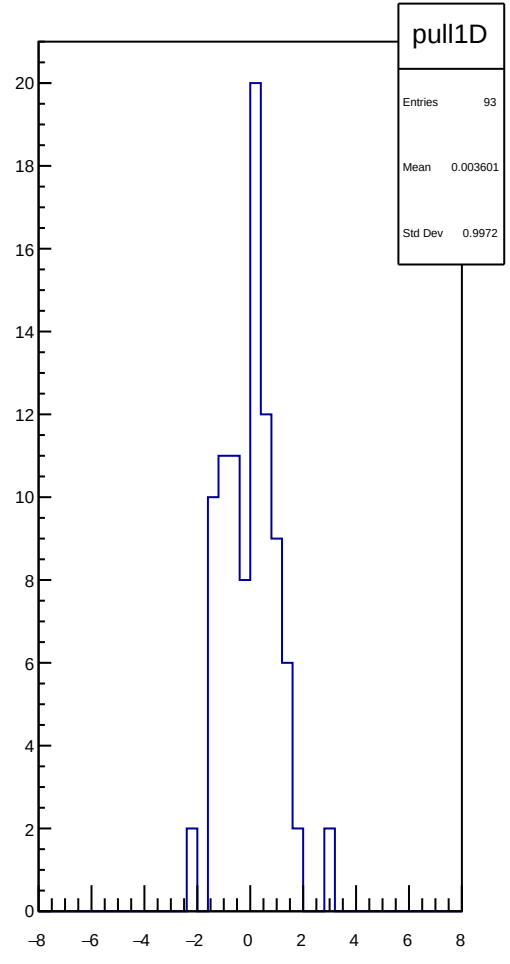

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 283.3 / 92
p0 1997 ± 1.501
2200
2150
2100
2050
2000
1950

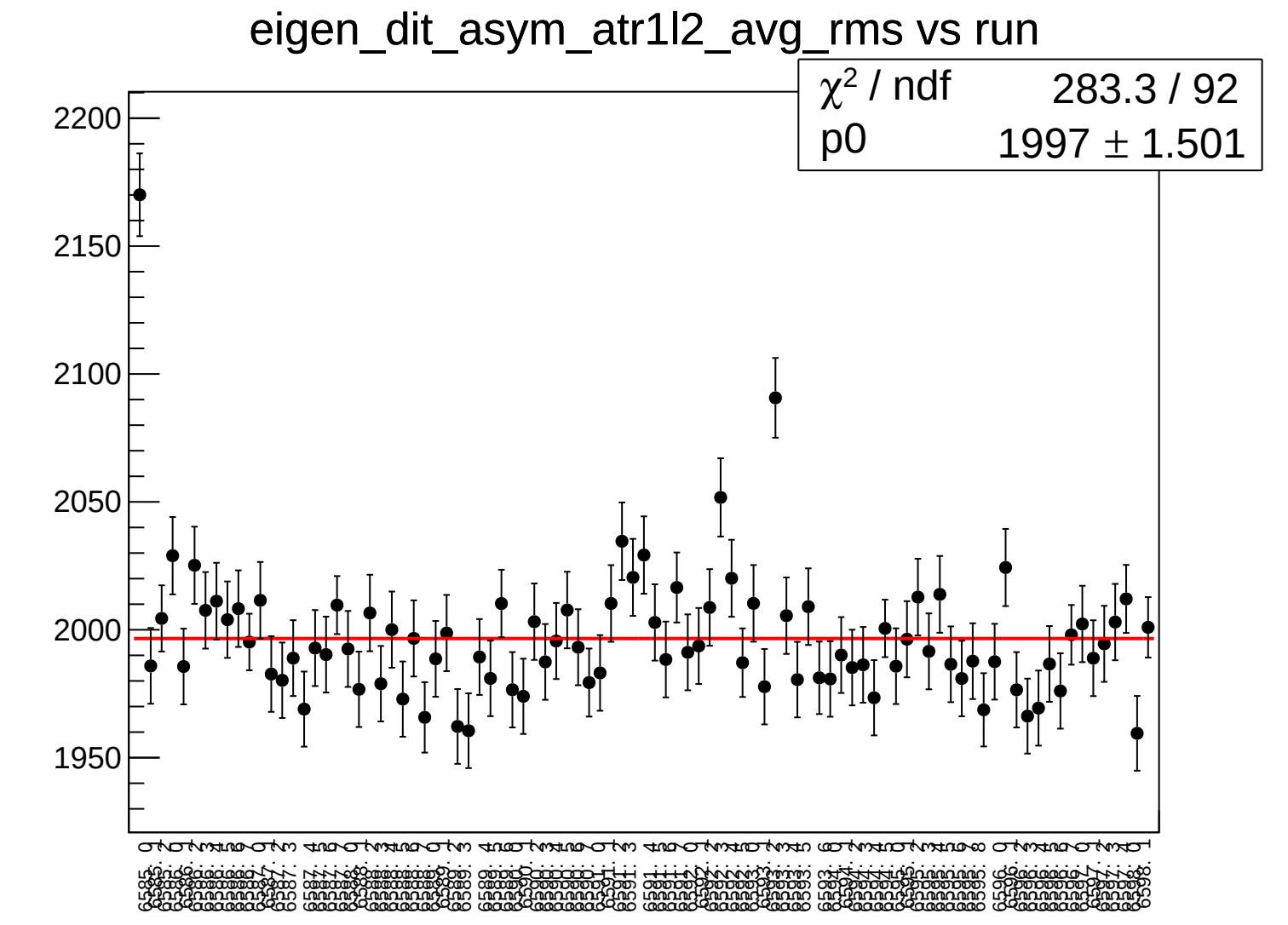

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.19 / 92
p0 2152 ± 5424
200
100
0
−100
−200
pull
Entries 93
Mean 239.2
Std Dev 231.9
3
2
1
0
−1
−2

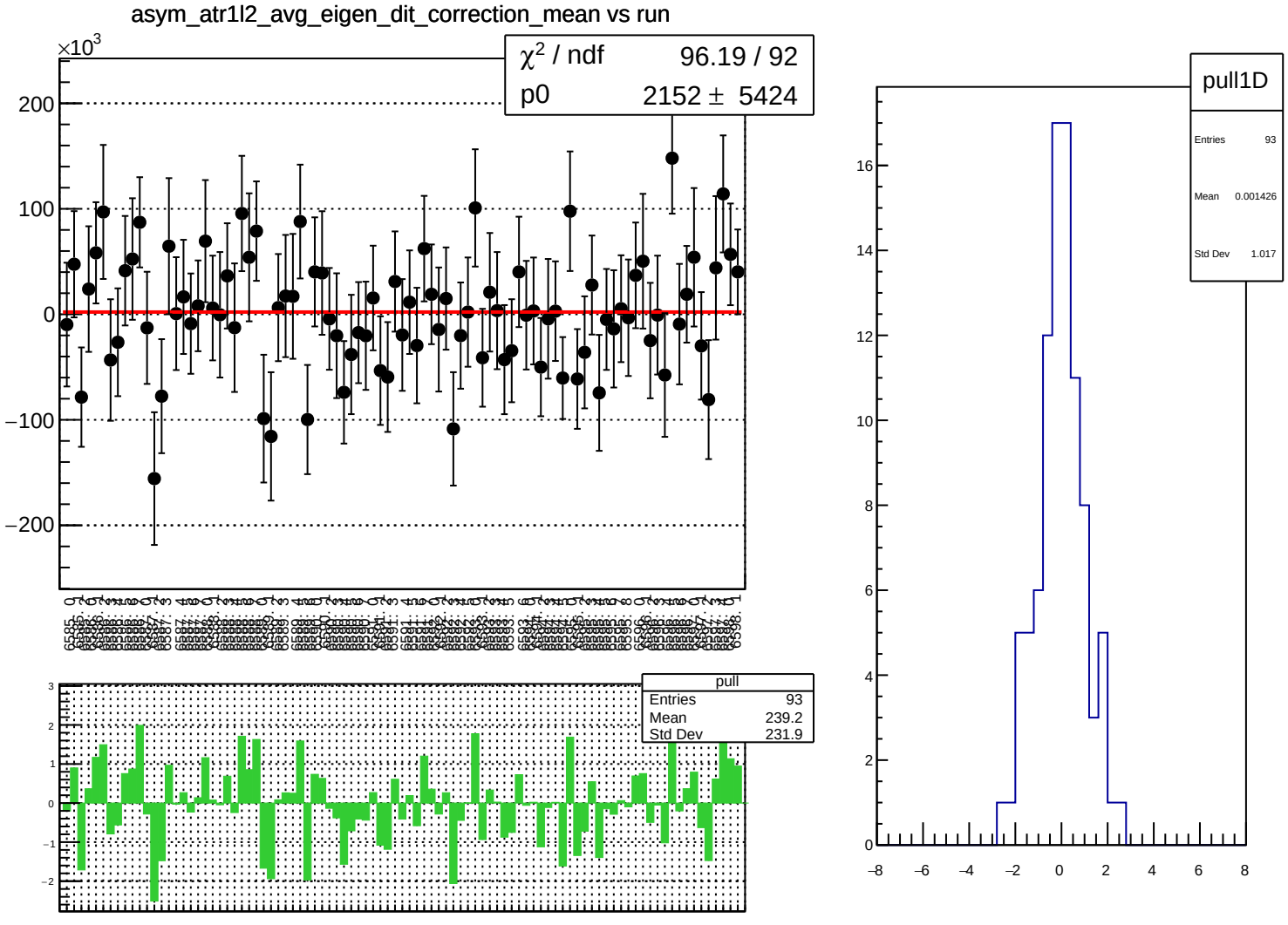

pull1D
Entries 93
Mean 0.001426
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

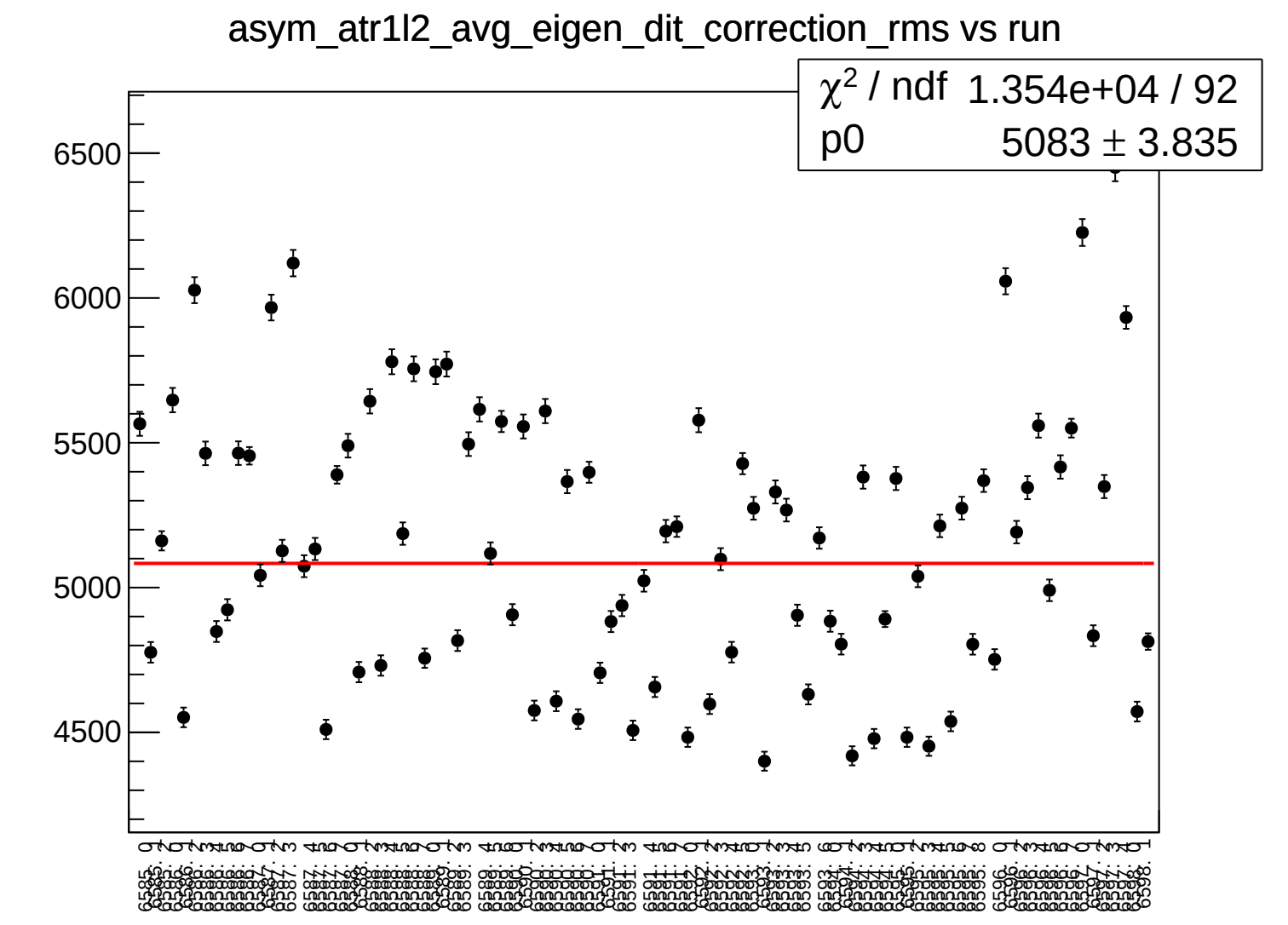

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.354e+04 / 92
p0 5083 ± 3.835
6500
6000
5500
5000
4500

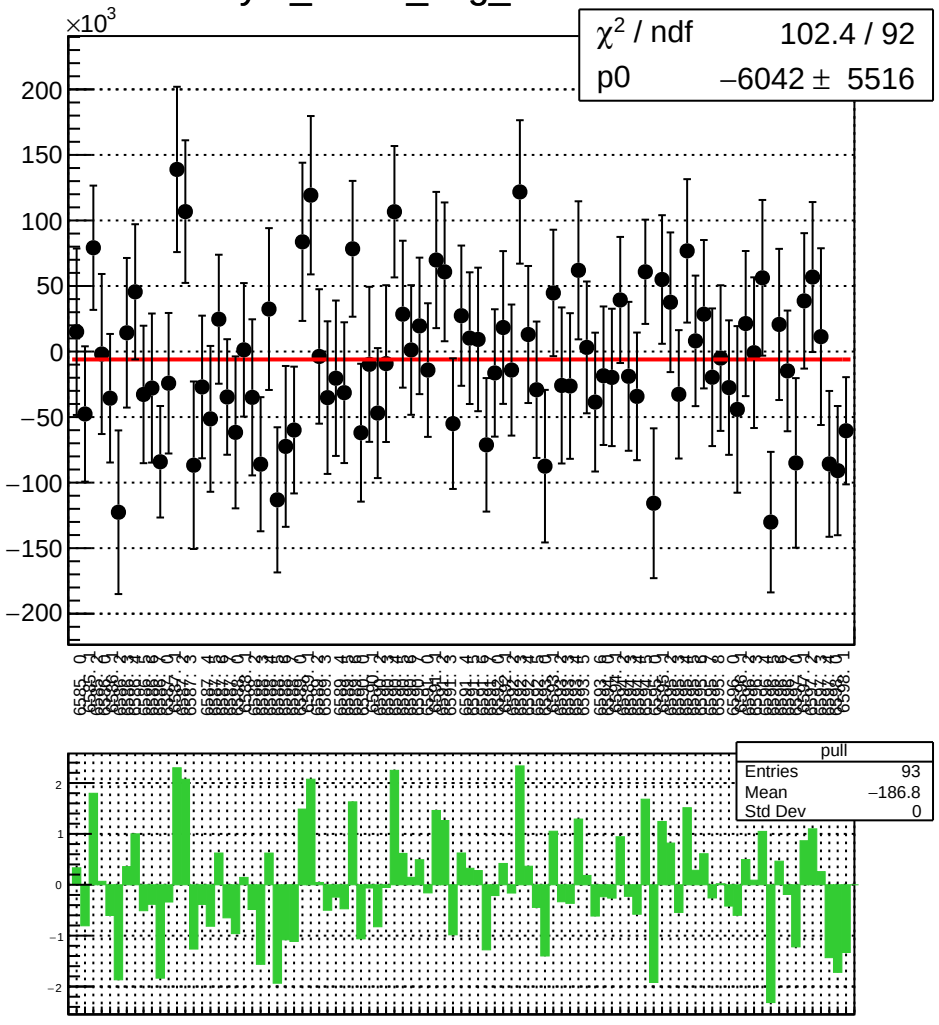

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 92.47 / 92
p0 −3797 ± 2122
pull
Entries 93
Mean 274.8
Std Dev 0

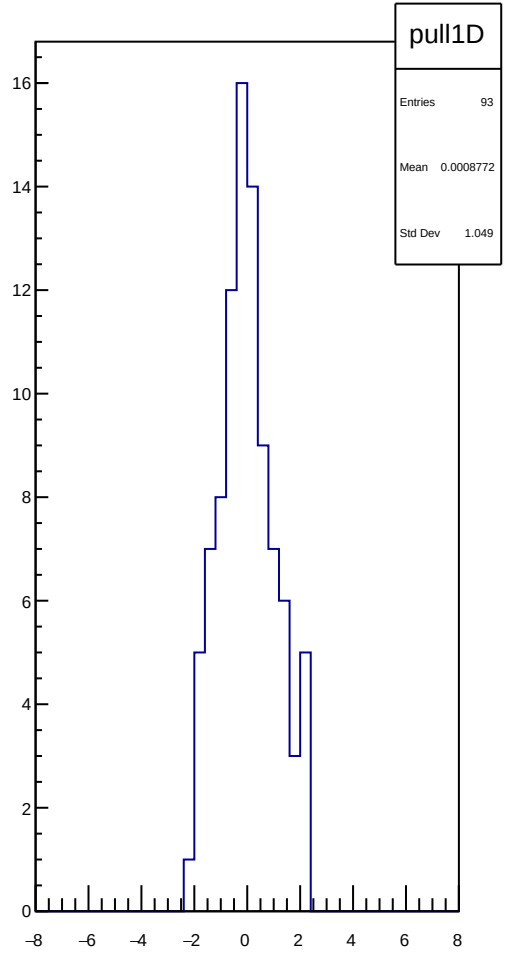

pull1D
Entries 93
Mean 0.003601
Std Dev 0.9972

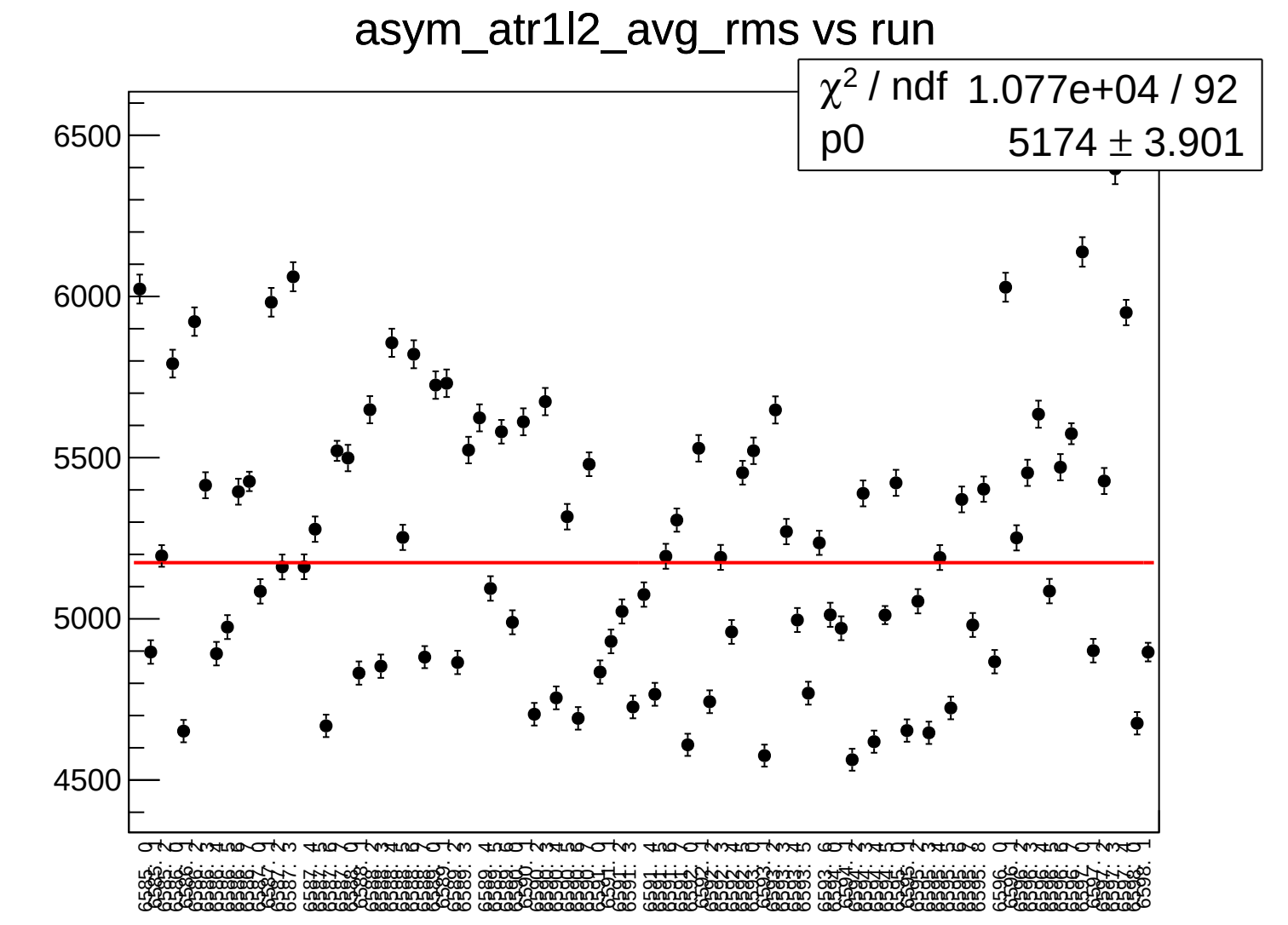

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 283.3 / 92
p0 1997 ± 1.501
2200
2150
2100
2050
2000
1950

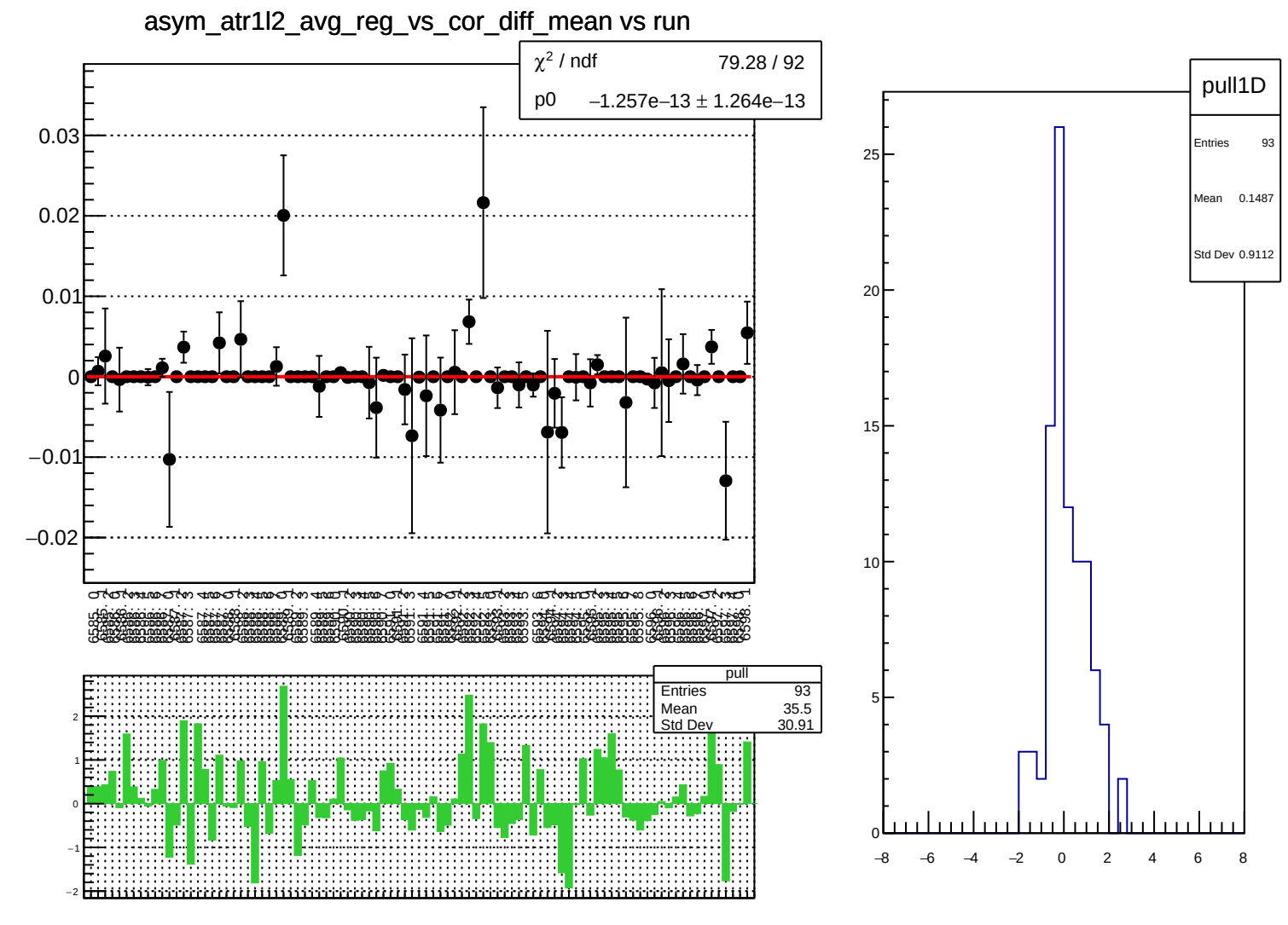

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.19 / 92
p0 2152 ± 5424
200
100
0
−100
−200
pull
Entries 93
Mean 239.2
Std Dev 231.9
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001426
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

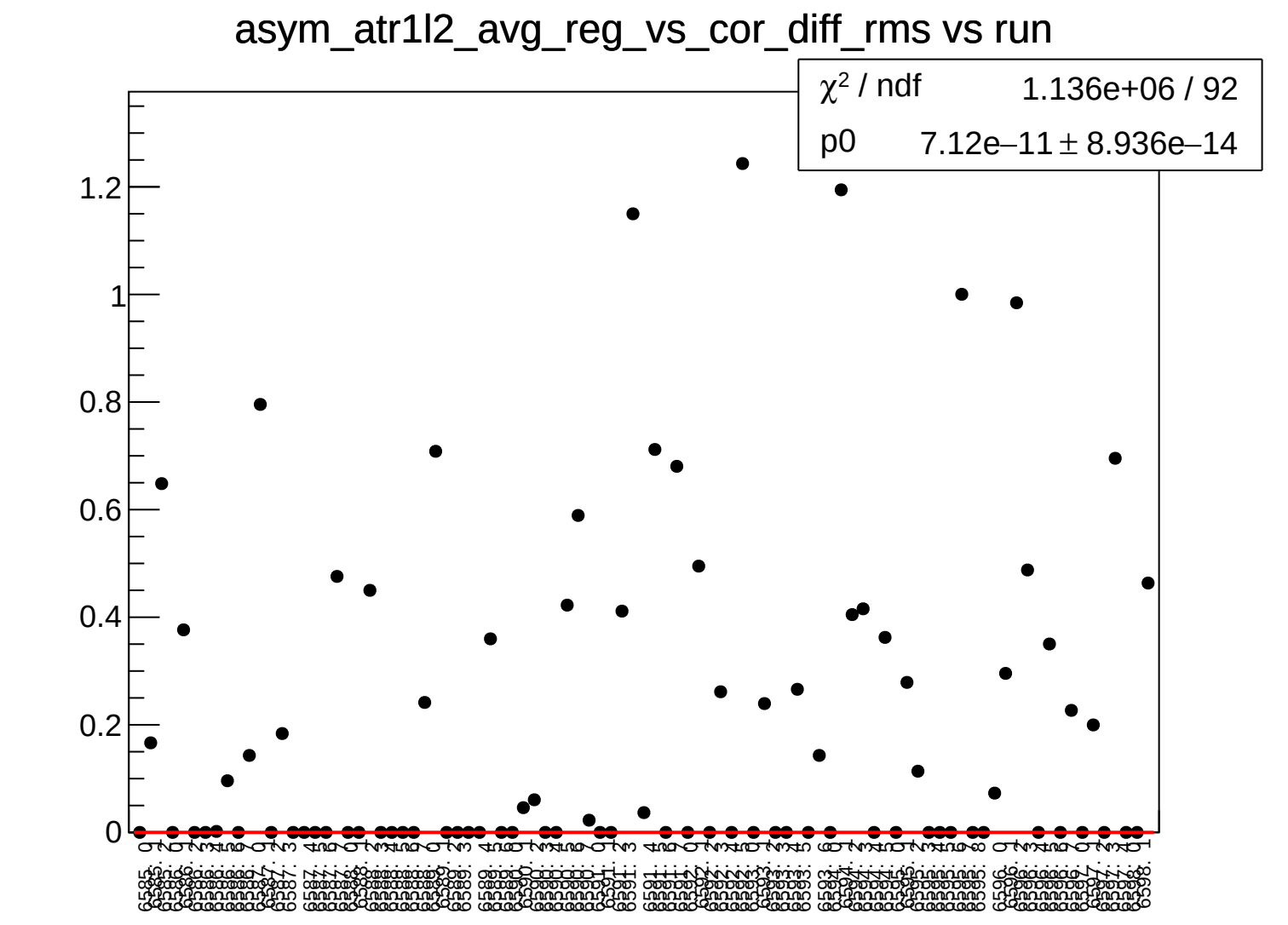

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.354e+04 / 92
p0 5083 ± 3.835
6500
6000
5500
5000
4500

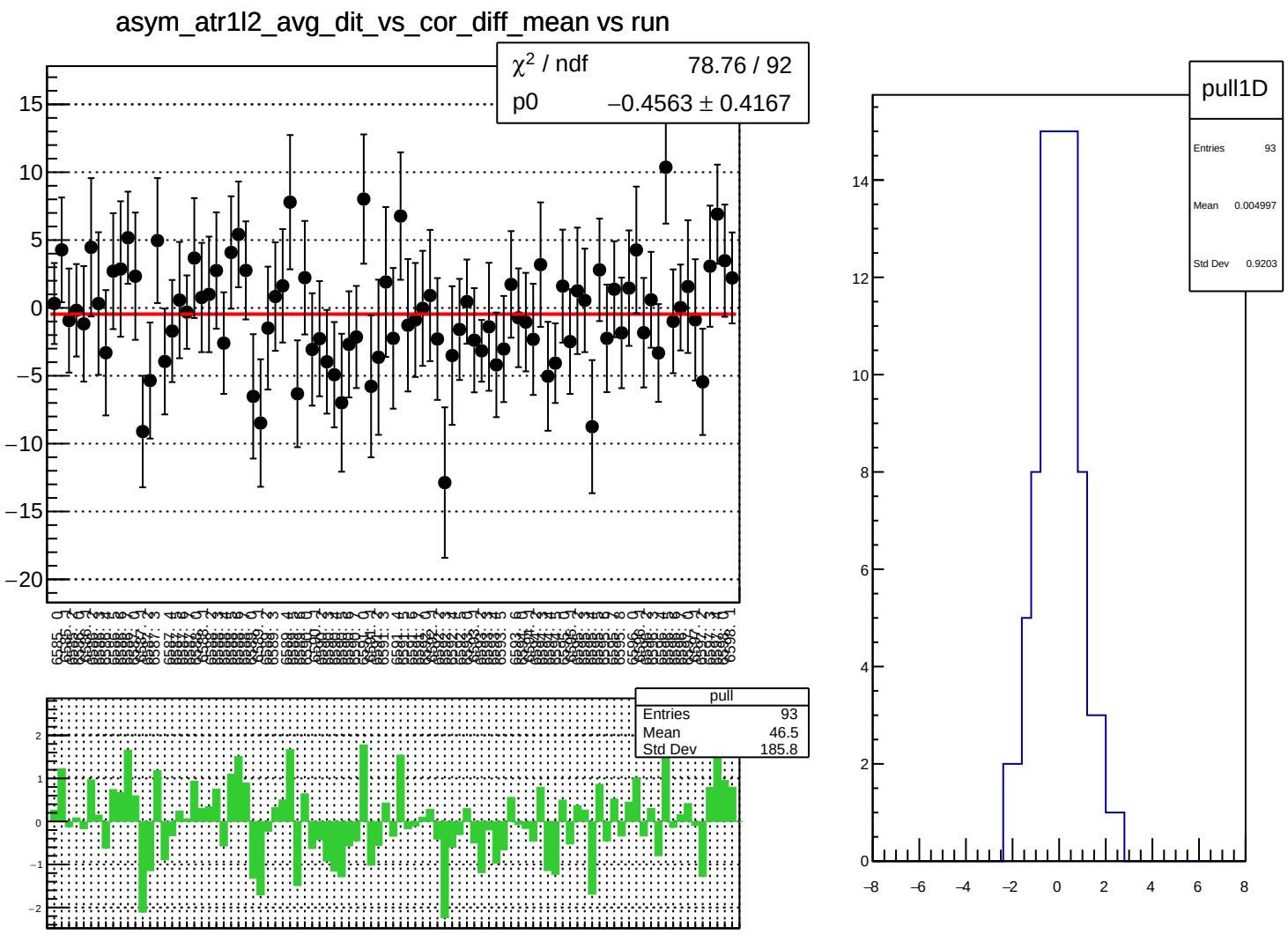

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 102.4 / 92
p0 −6042 ± 5516
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −186.8
Std Dev 0
2
1
0
−1
−2

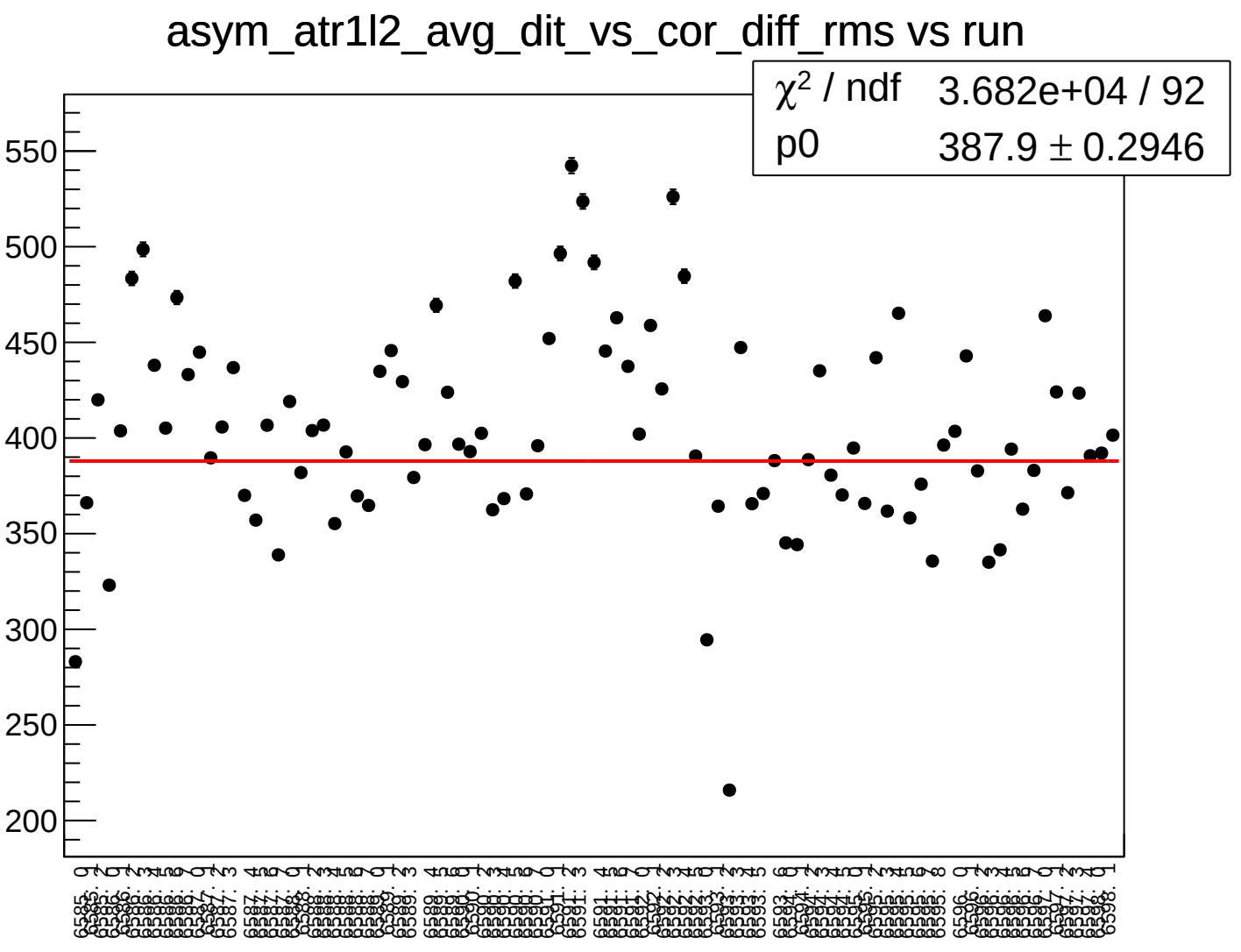

pull1D
Entries 93
Mean 0.0008772
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

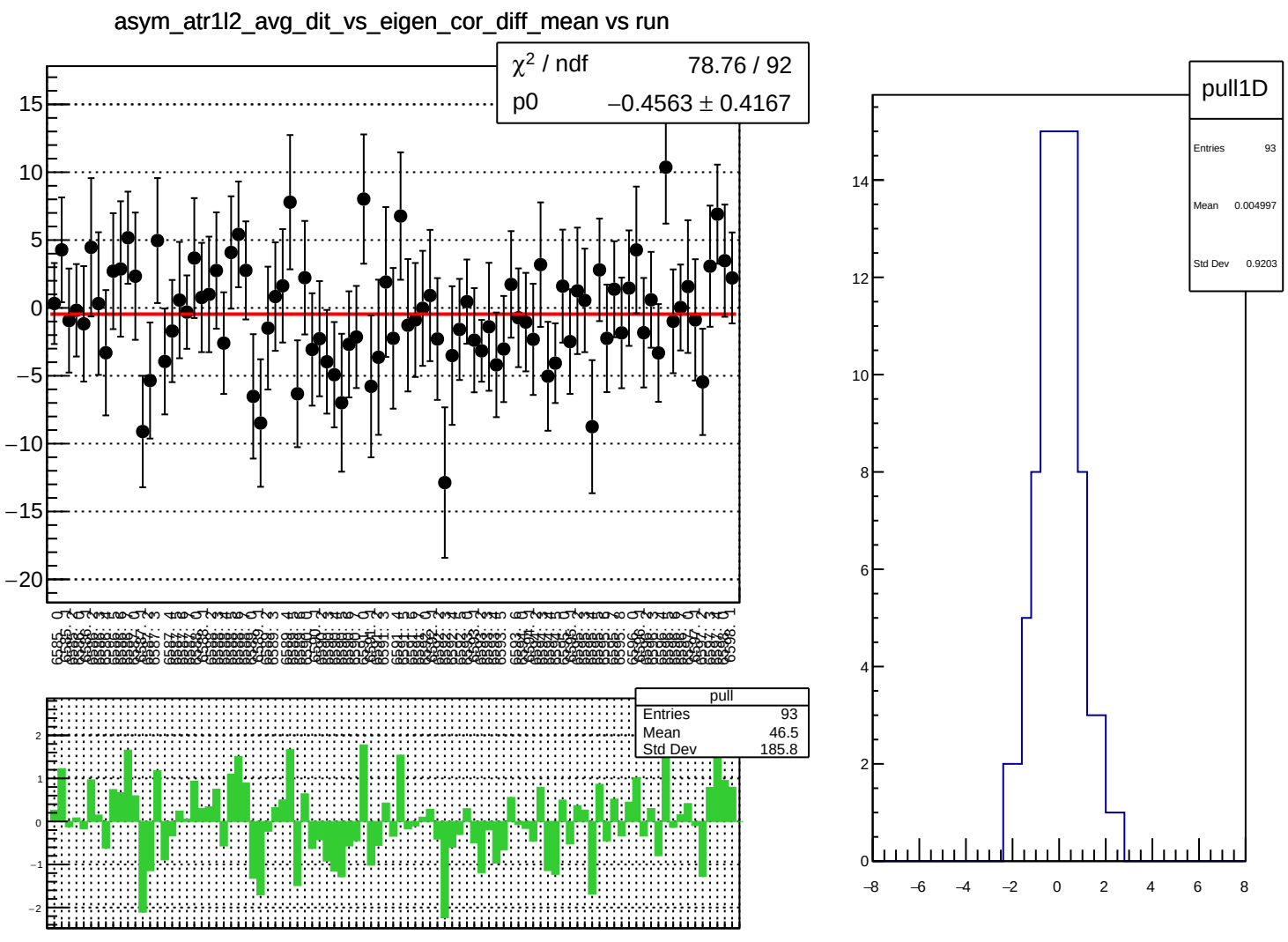

asym_atr1l2_avg_rms vs run
χ² / ndf 1.077e+04 / 92
p0 5174 ± 3.901
6500
6000
5500
5000
4500

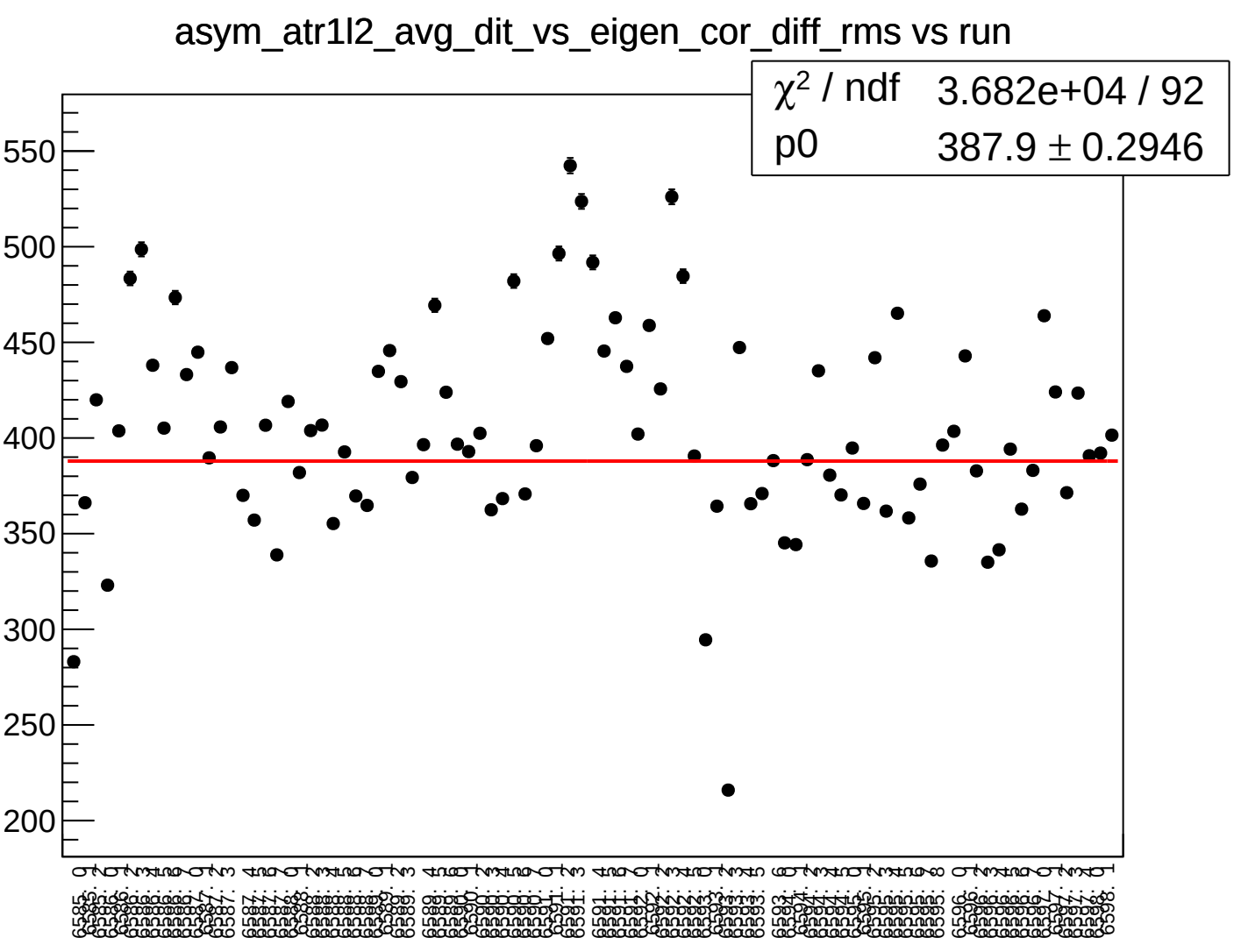

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.28 / 92
p0 −1.257e−13 ± 1.264e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 35.5
Std Dev 30.91
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1487
Std Dev 0.9112
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

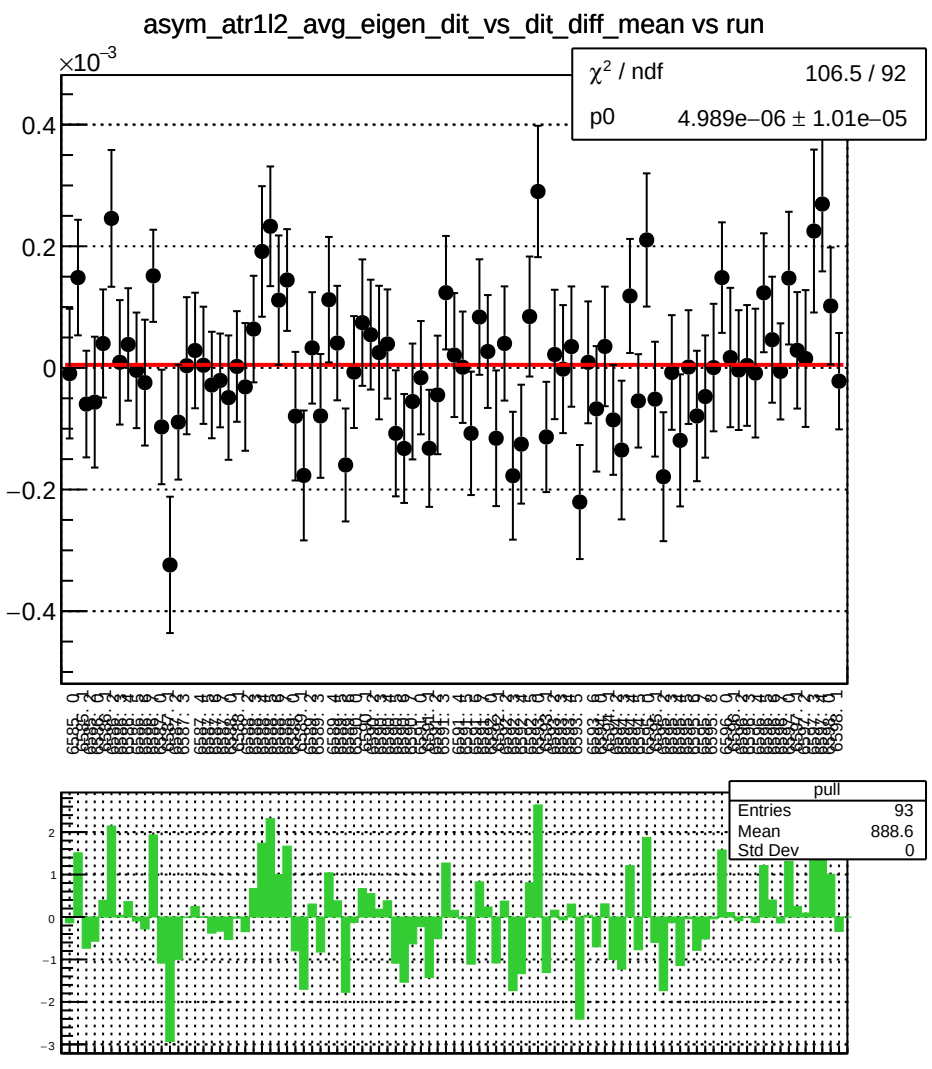

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.136e+06 / 92
p0 7.12e−11 ± 8.936e−14
1.2
1
0.8
0.6
0.4
0.2
0

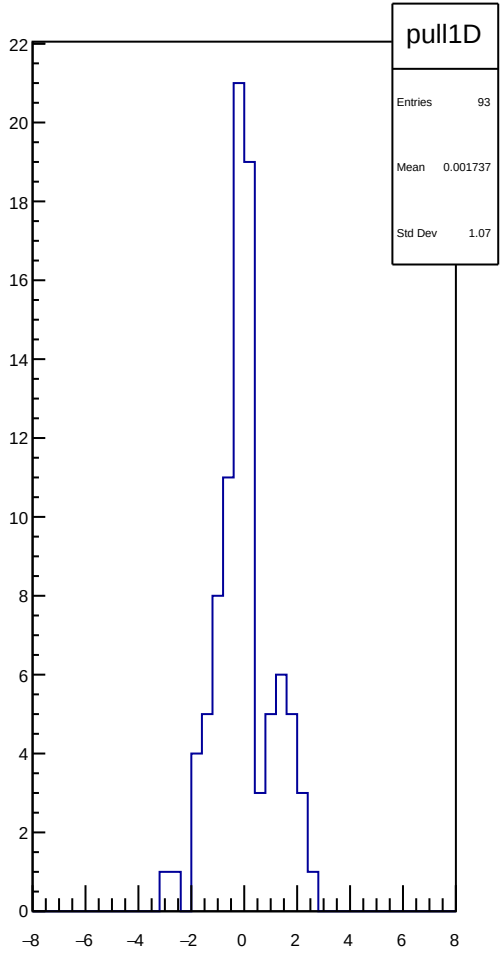

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.76 / 92
p0 −0.4563 ± 0.4167
pull
Entries 93
Mean 46.5
Std Dev 185.8
pull1D
Entries 93
Mean 0.004997
Std Dev 0.9203

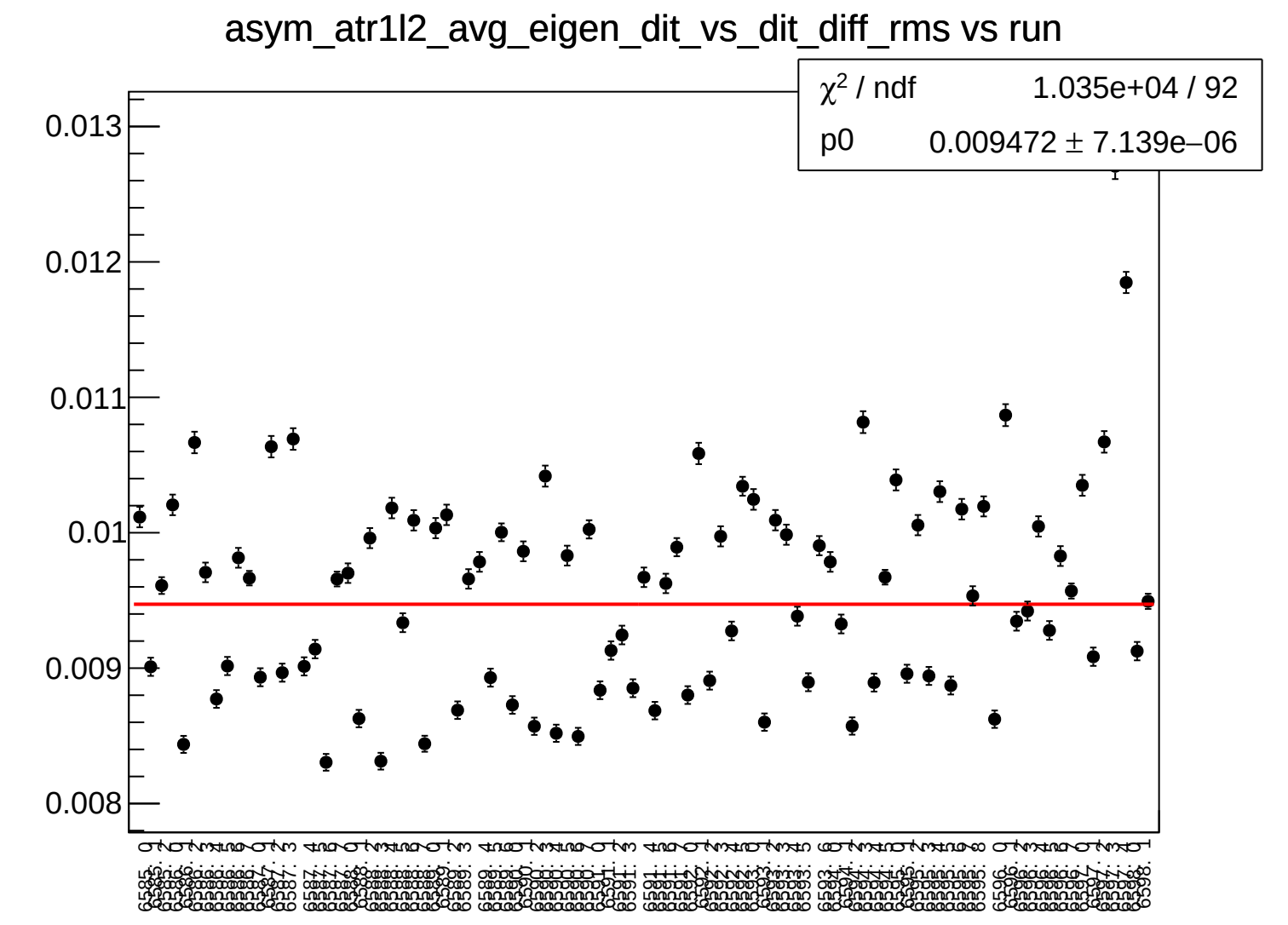

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.682e+04 / 92
p0 387.9 ± 0.2946
550
500
450
400
350
300
250
200

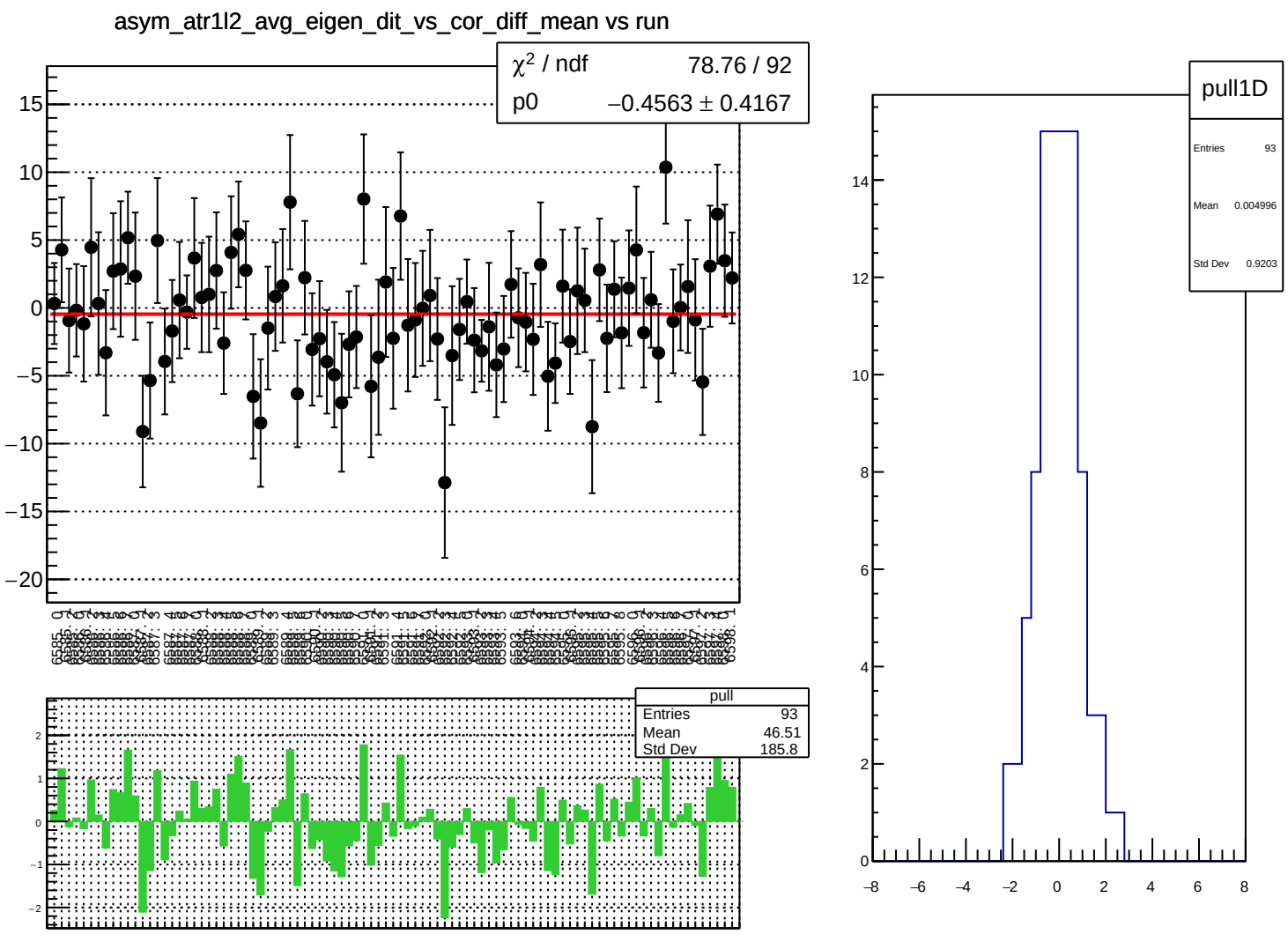

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.76 / 92
p0 −0.4563 ± 0.4167
pull
Entries 93
Mean 46.5
Std Dev 185.8
pull1D
Entries 93
Mean 0.004997
Std Dev 0.9203

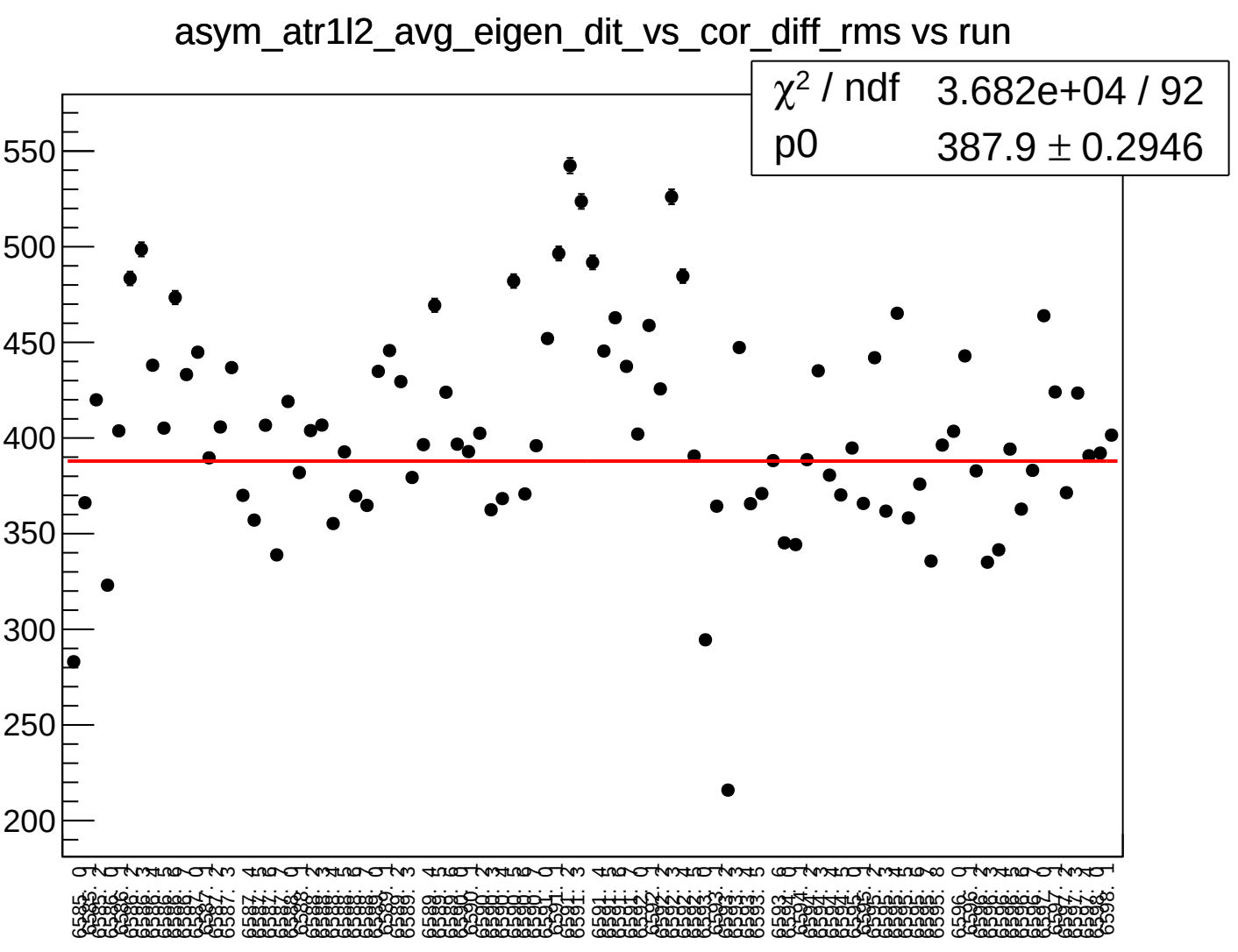

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.682e+04 / 92
p0 387.9 ± 0.2946
550
500
450
400
350
300
250
200

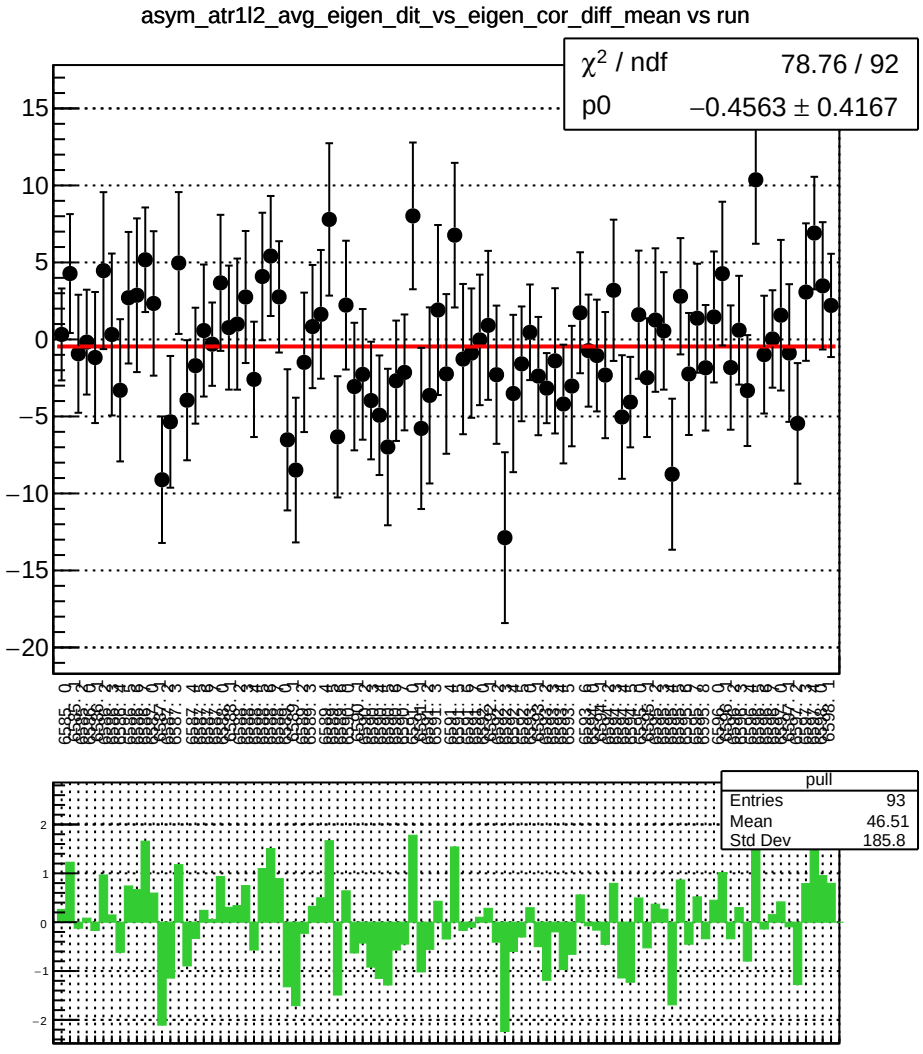

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 106.5 / 92
p0 4.989e−06 ± 1.01e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 888.6
Std Dev 0
2
1
0
−1
−2
−3

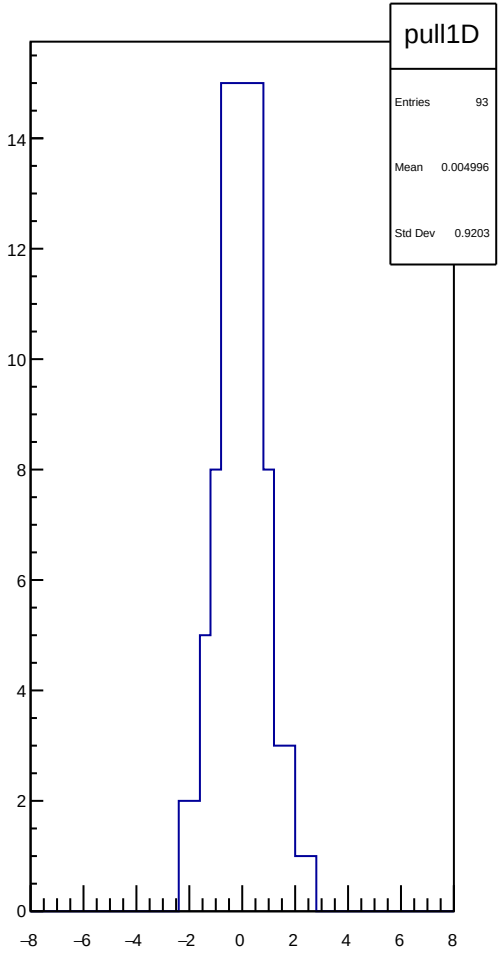

pull1D
Entries 93
Mean 0.001737
Std Dev 1.07
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

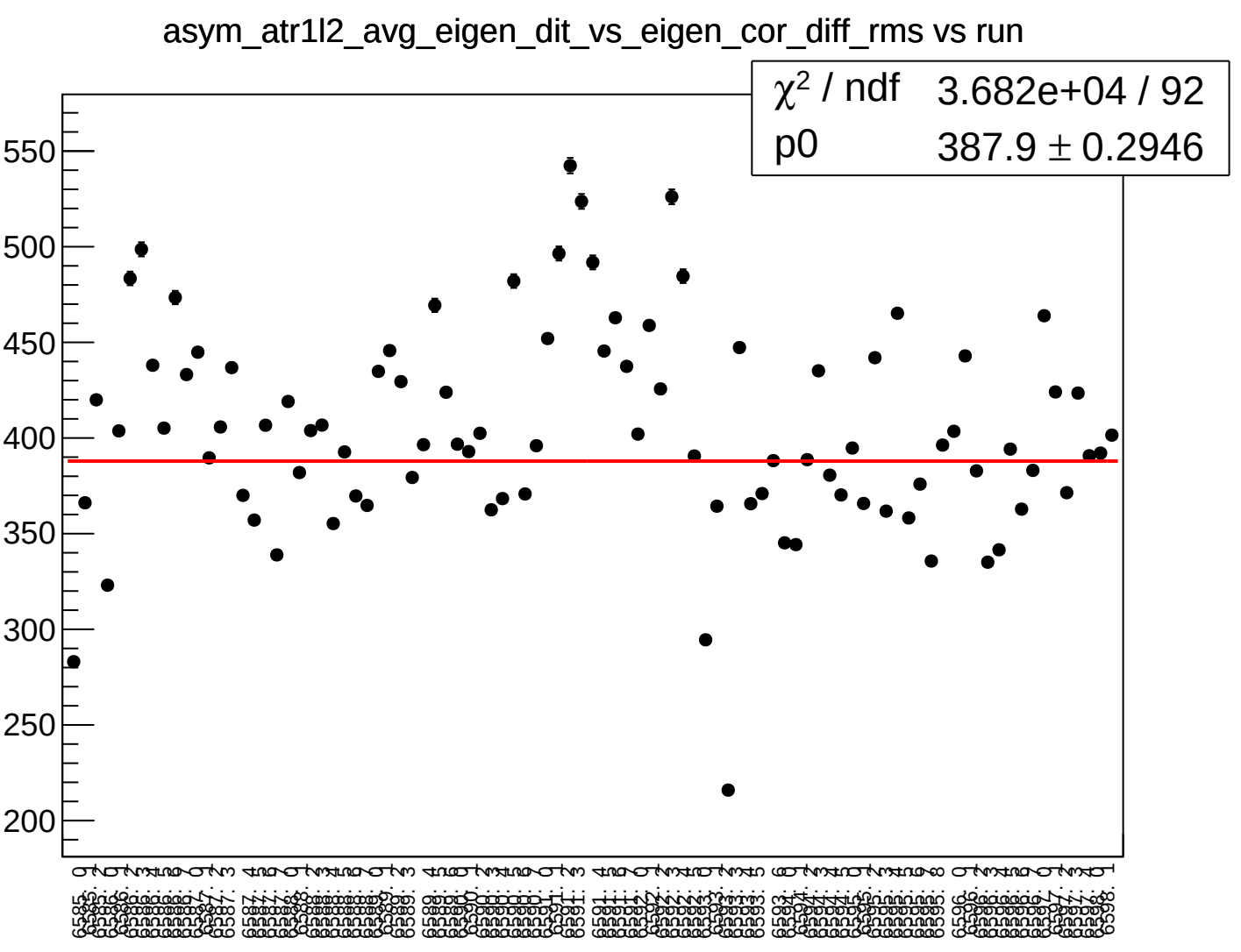

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.035e+04 / 92
p0 0.009472 ± 7.139e−06
0.013
0.012
0.011
0.01
0.009
0.008

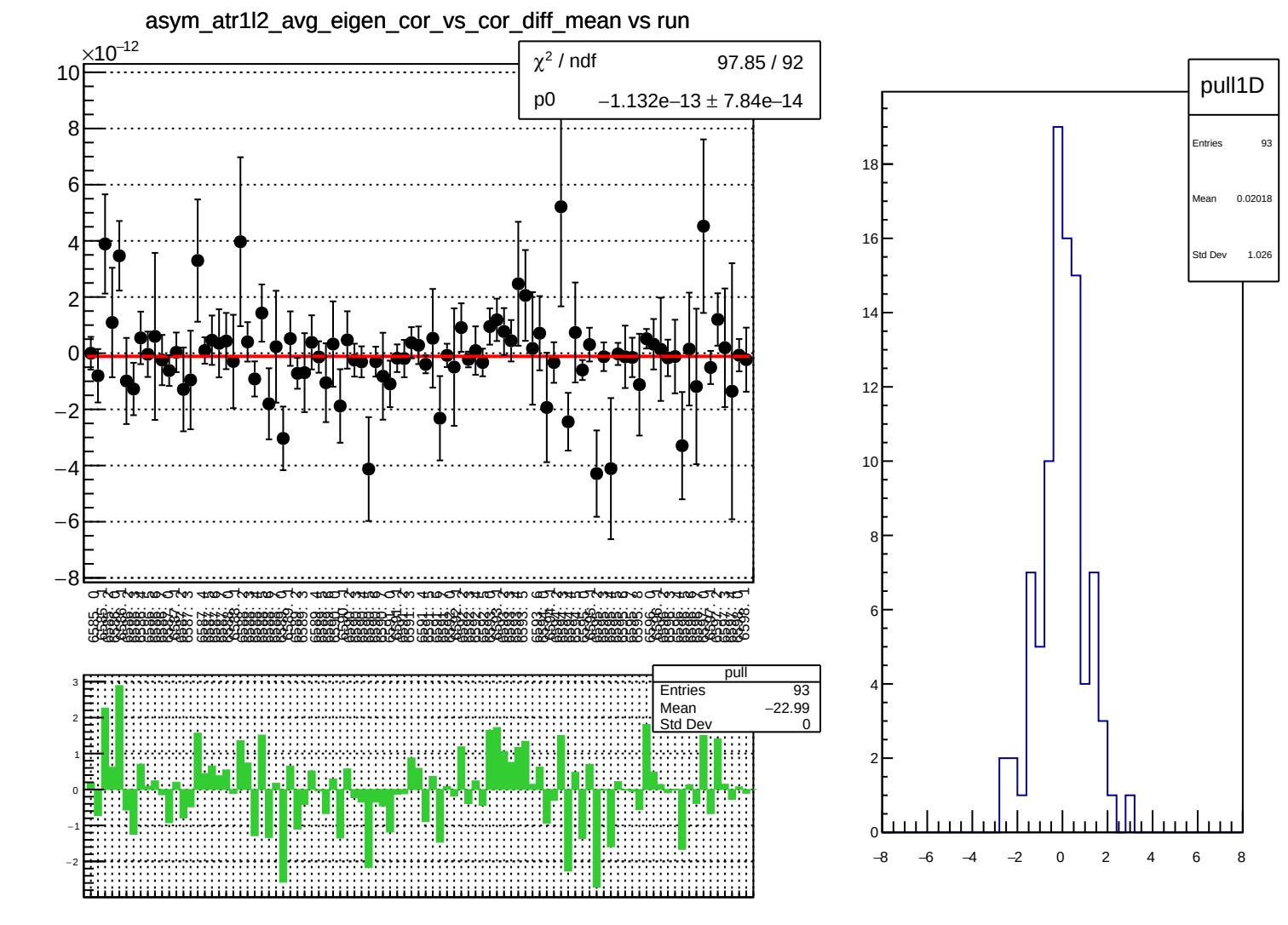

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.76 / 92
p0 −0.4563 ± 0.4167
pull
Entries 93
Mean 46.51
Std Dev 185.8
pull1D
Entries 93
Mean 0.004996
Std Dev 0.9203

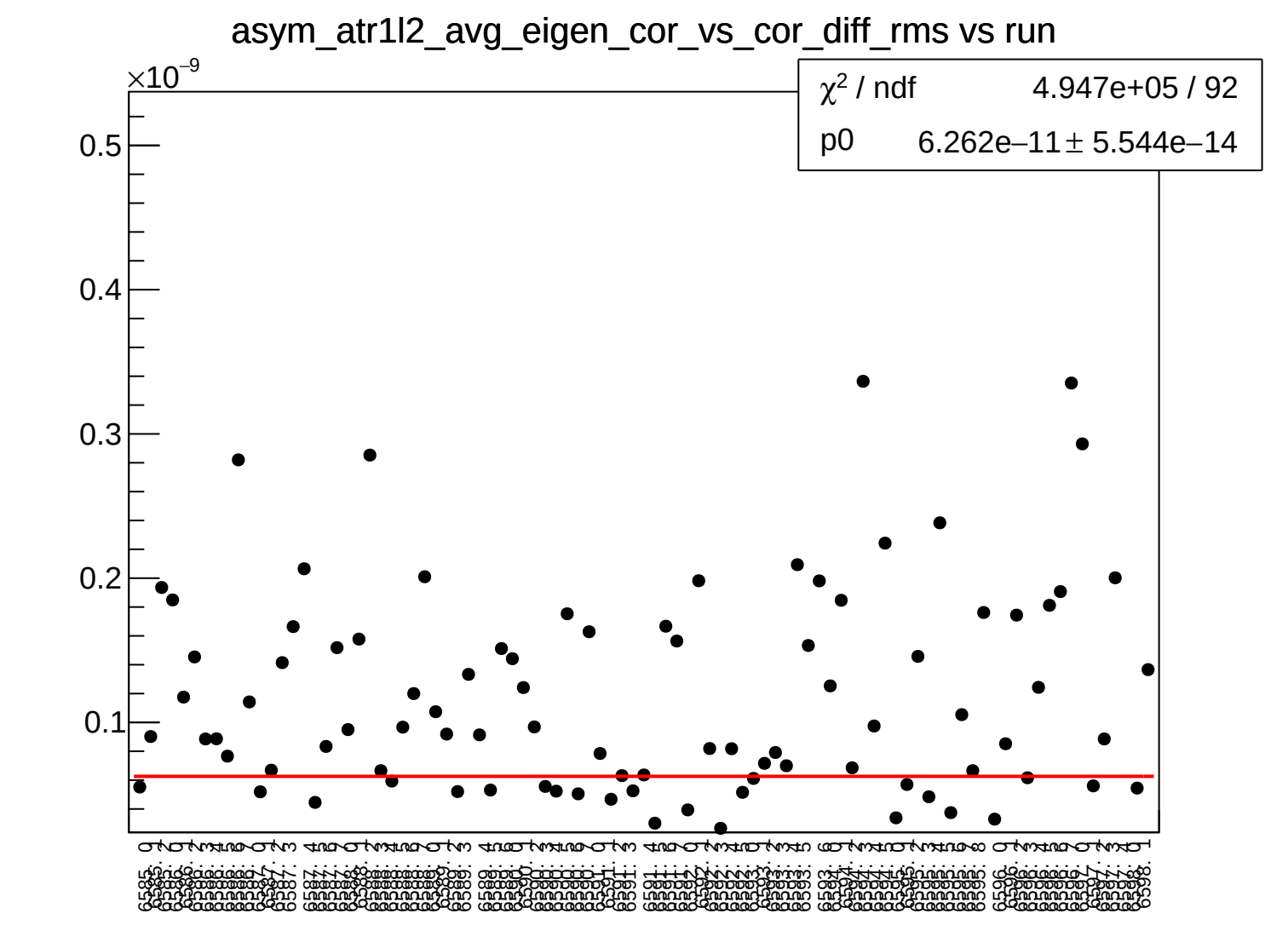

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.682e+04 / 92
p0 387.9 ± 0.2946
550
500
450
400
350
300
250
200

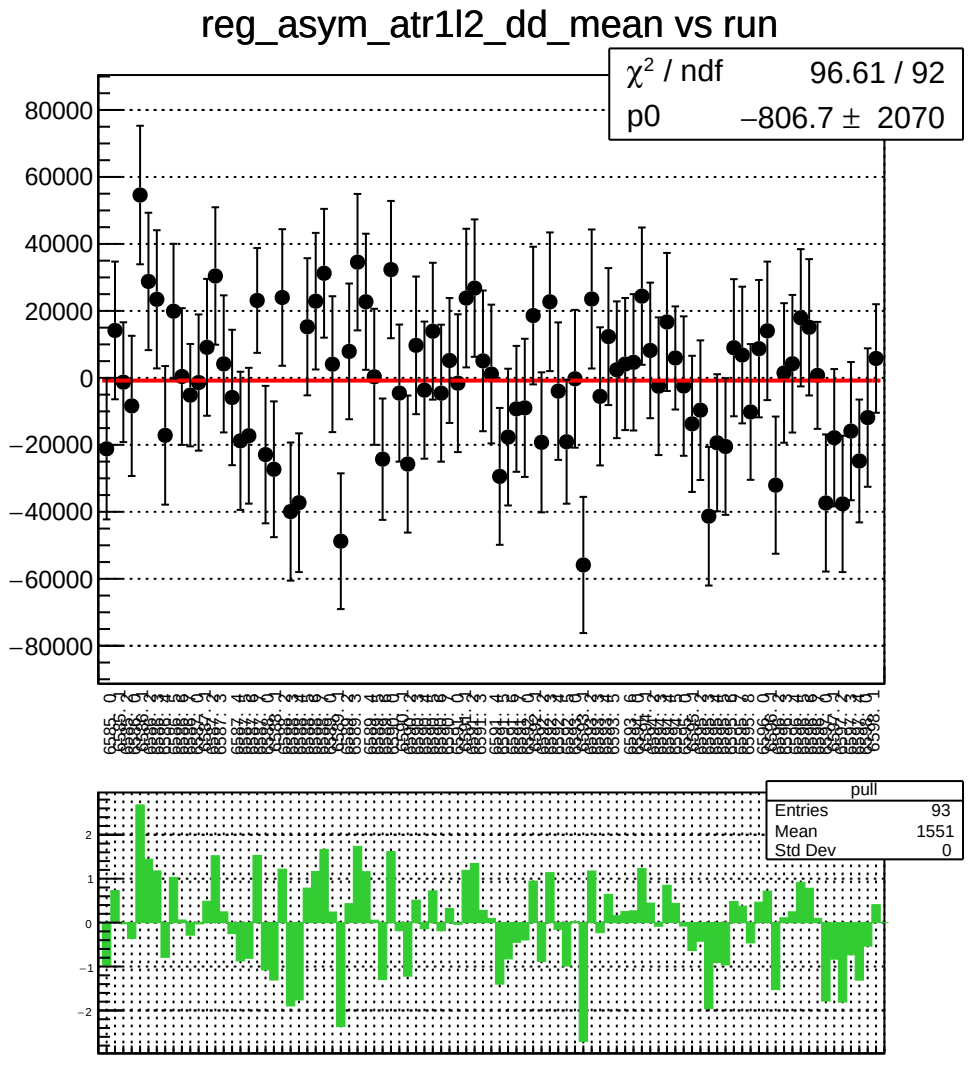

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.76 / 92
p0 −0.4563 ± 0.4167
pull
Entries 93
Mean 46.51
Std Dev 185.8

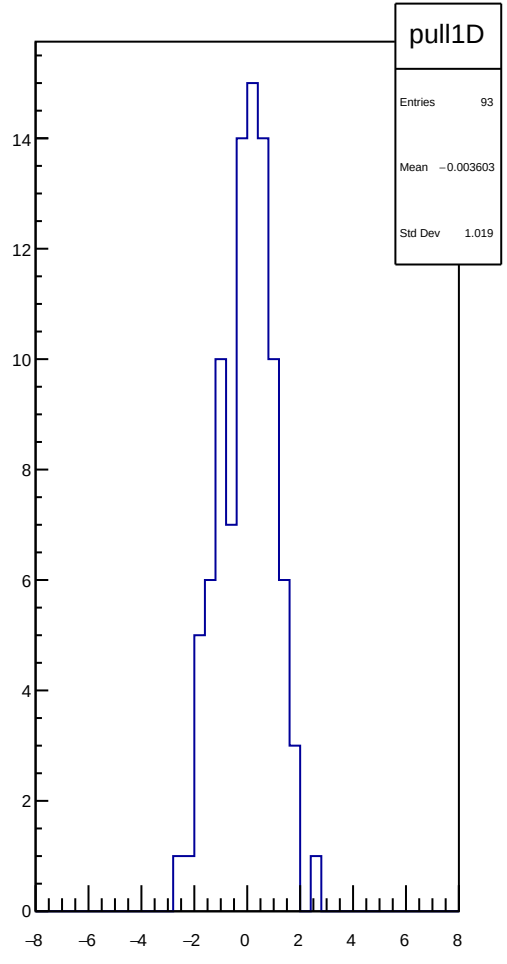

pull1D
Entries 93
Mean 0.004996
Std Dev 0.9203

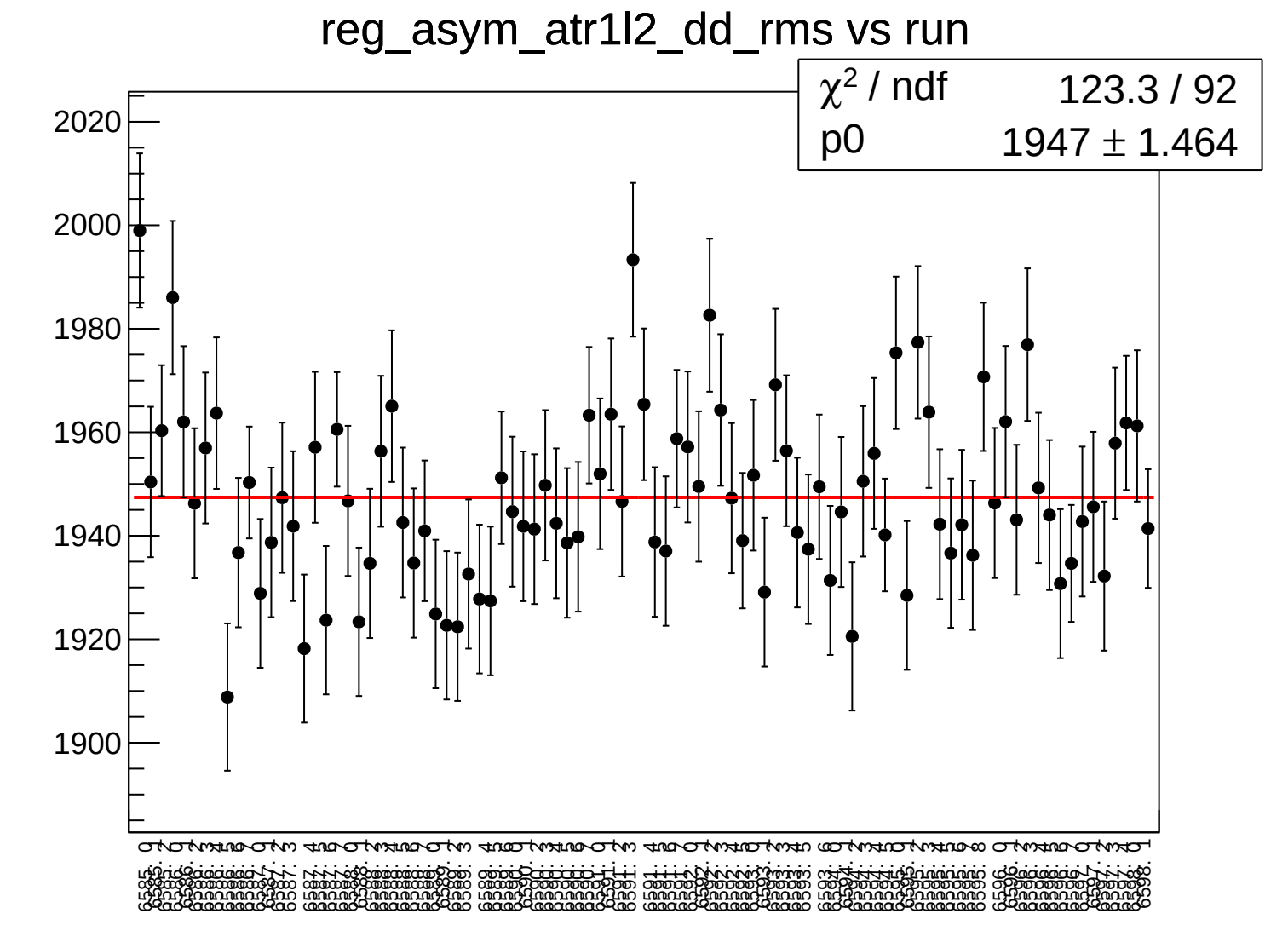

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.682e+04 / 92
p0 387.9 ± 0.2946
550
500
450
400
350
300
250
200

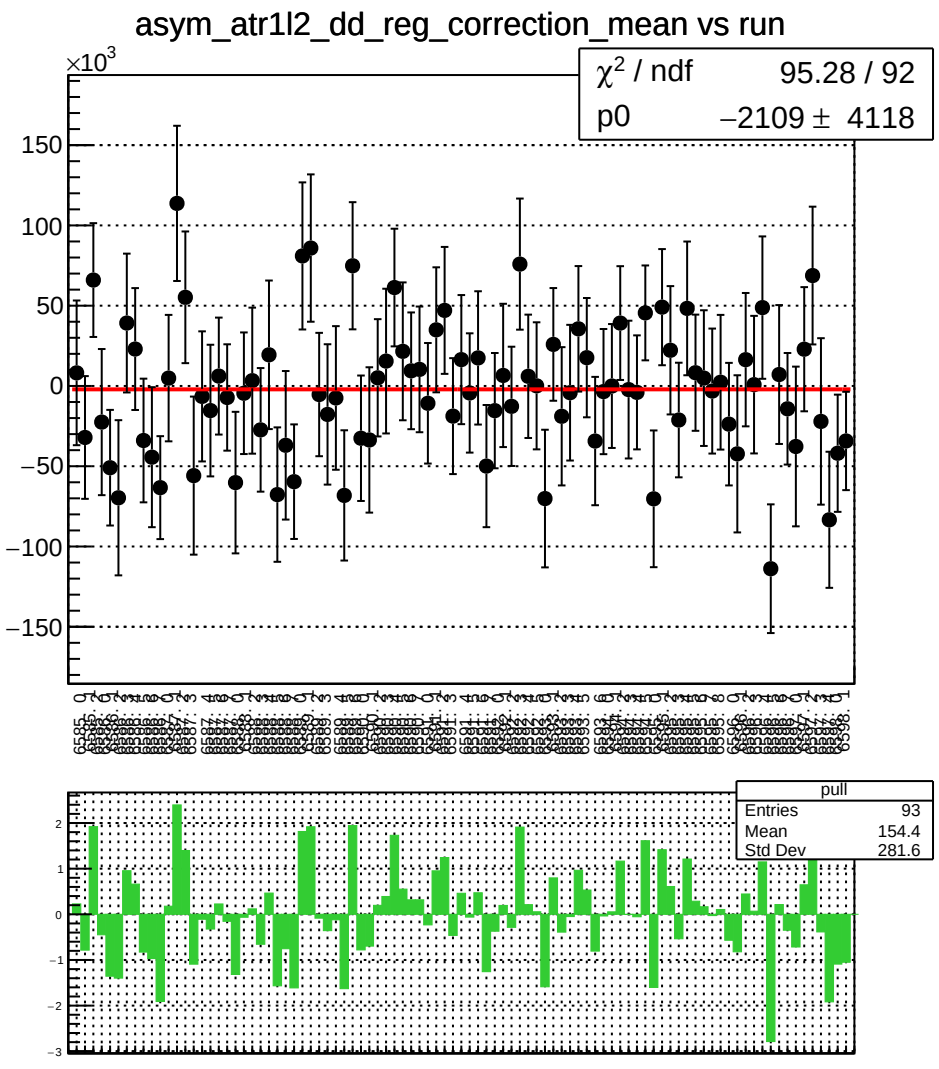

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 97.85 / 92
p0 −1.132e−13 ± 7.84e−14
pull
Entries 93
Mean −22.99
Std Dev 0
pull1D
Entries 93
Mean 0.02018
Std Dev 1.026

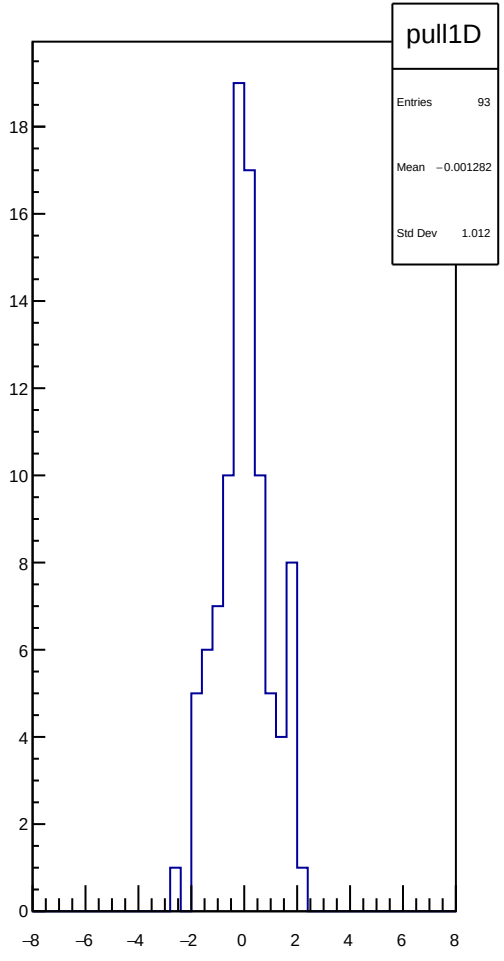

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.947e+05 / 92
p0 6.262e−11 ± 5.544e−14
0.5
0.4
0.3
0.2
0.1

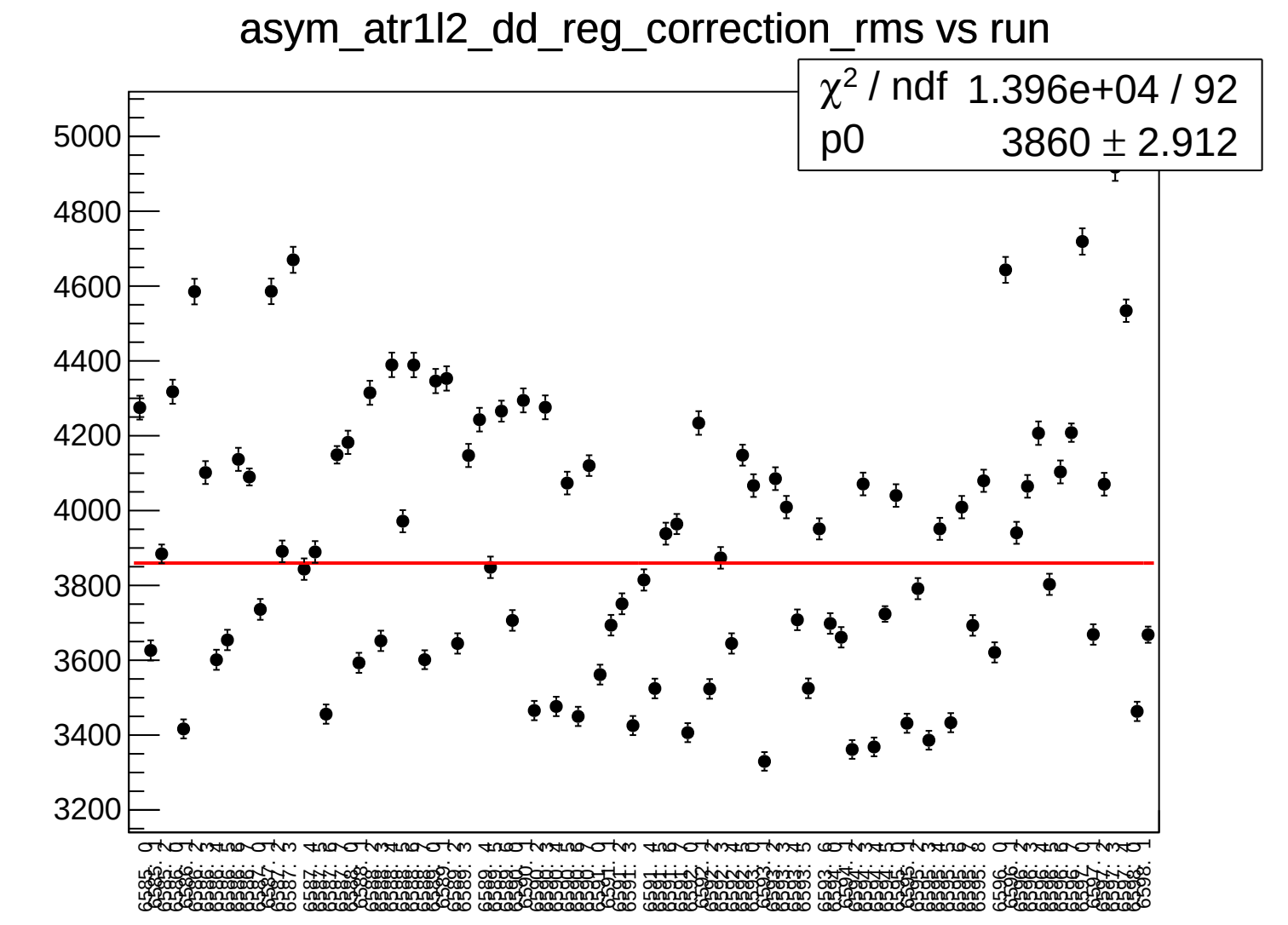

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 96.61 / 92
p0 −806.7 ± 2070
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 1551
Std Dev 0
2
1
0
−1
−2

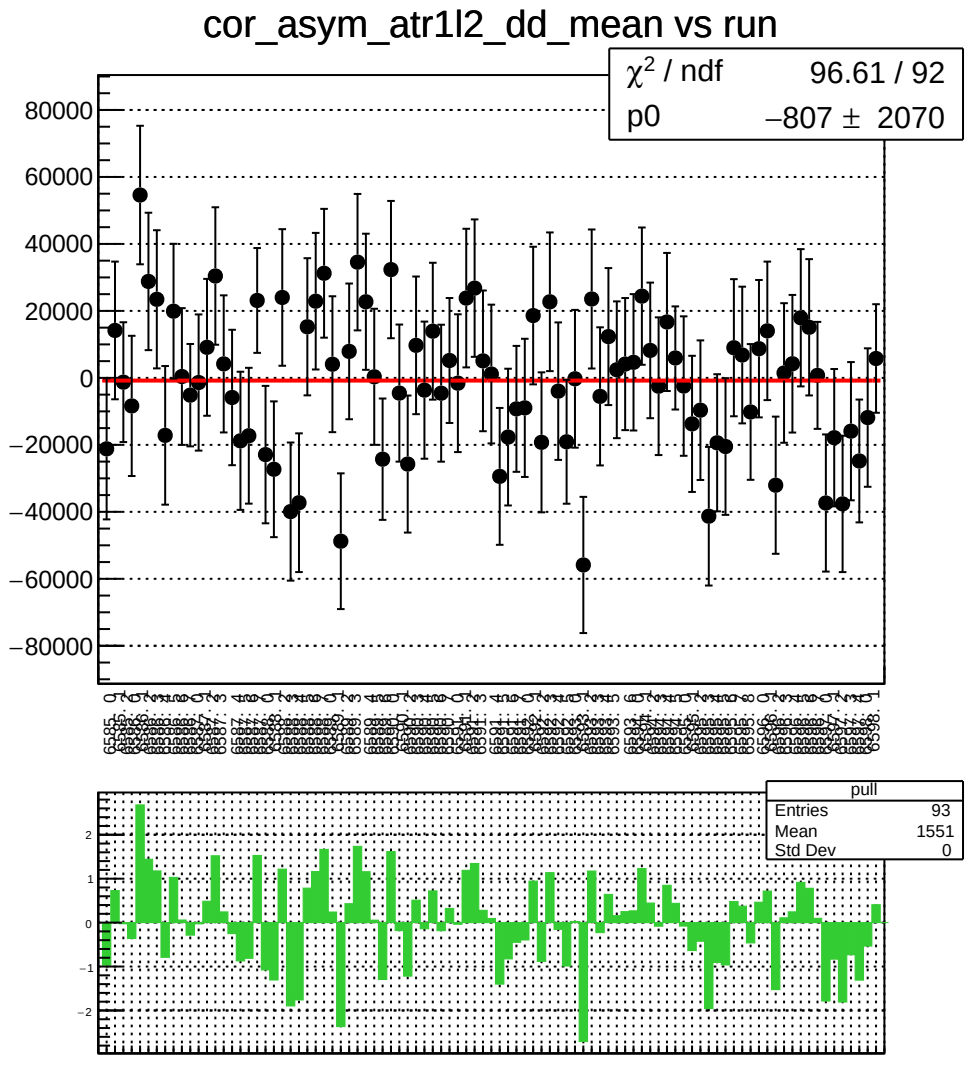

pull1D
Entries 93
Mean −0.003603
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

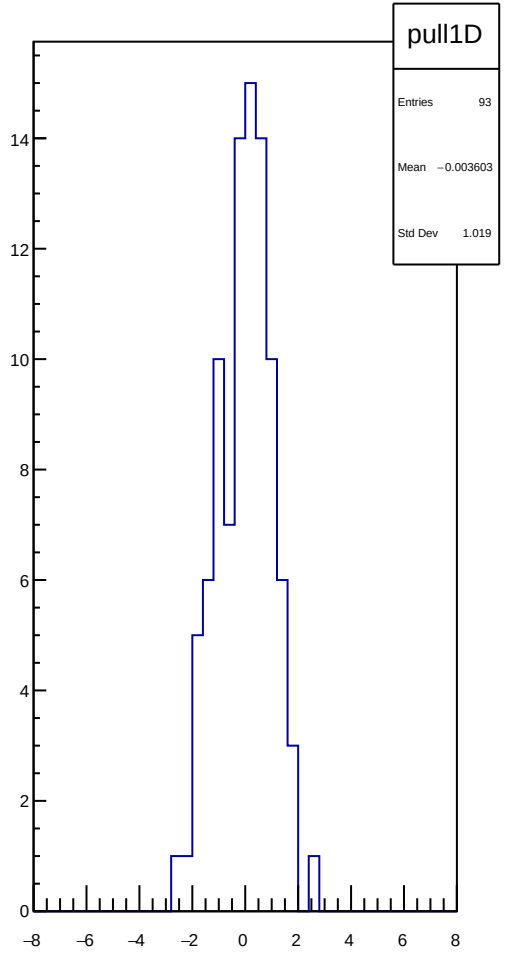

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 123.3 / 92
p0 1947 ± 1.464
2020
2000
1980
1960
1940
1920
1900

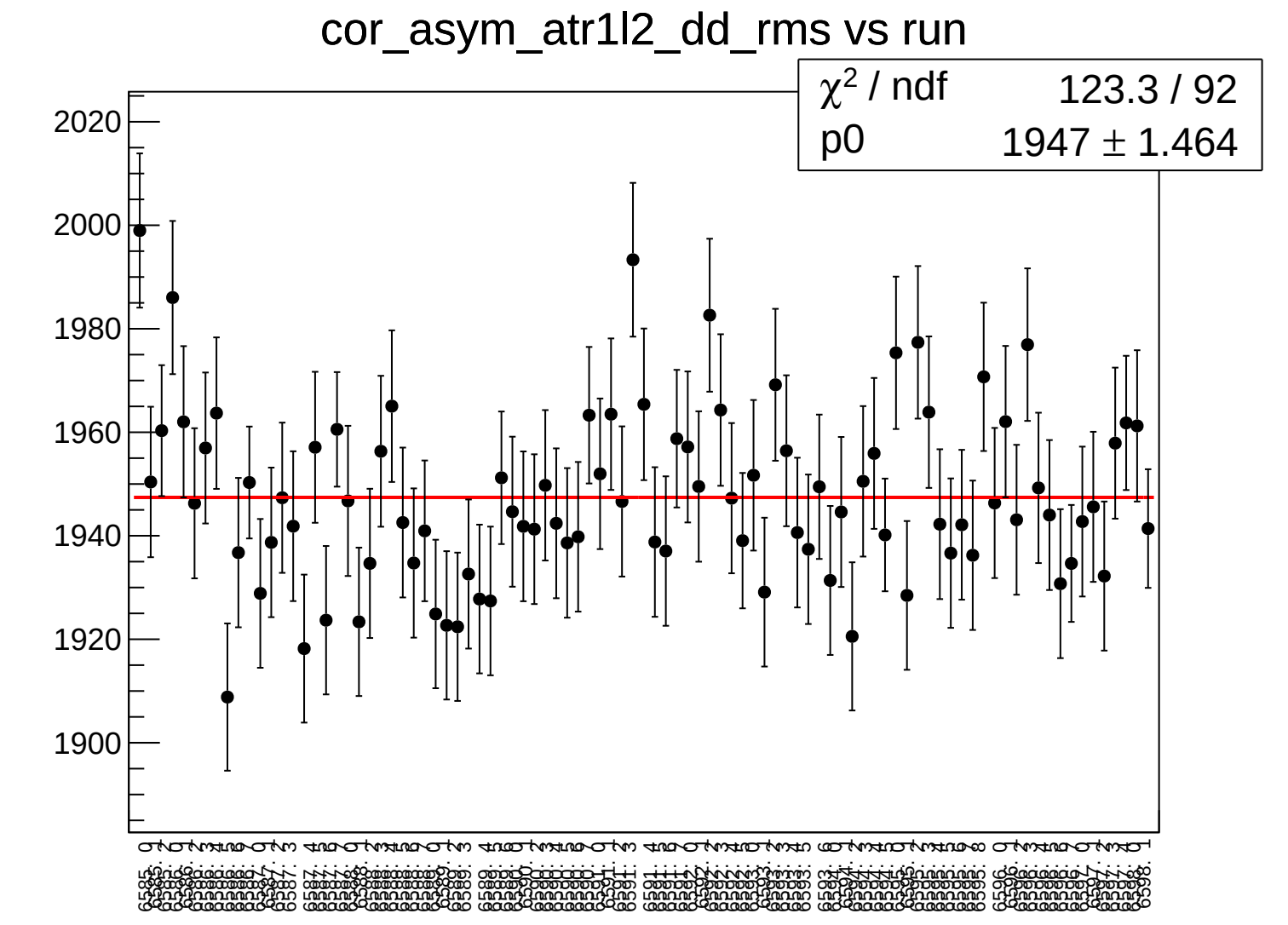

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 95.28 / 92
p0 −2109 ± 4118
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 154.4
Std Dev 281.6
2
1
0
−1
−2
−3

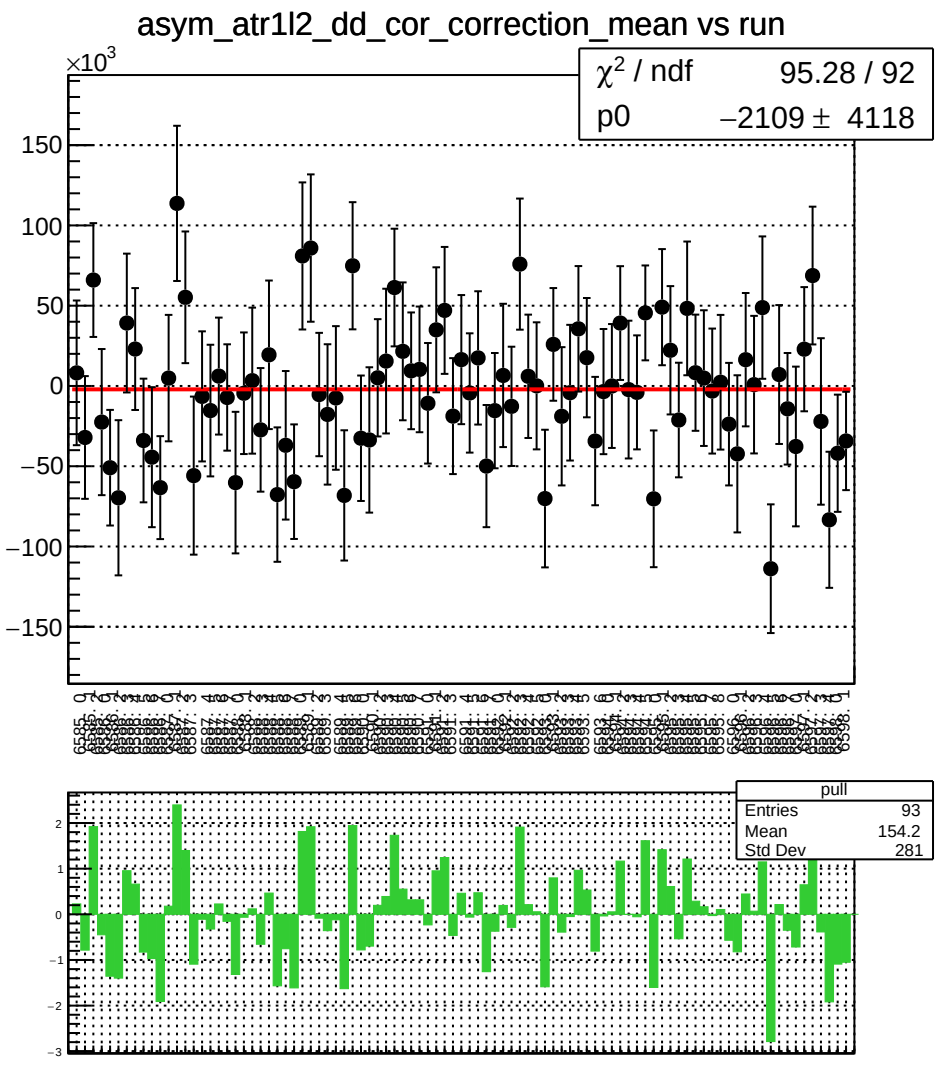

pull1D
Entries 93
Mean −0.001282
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

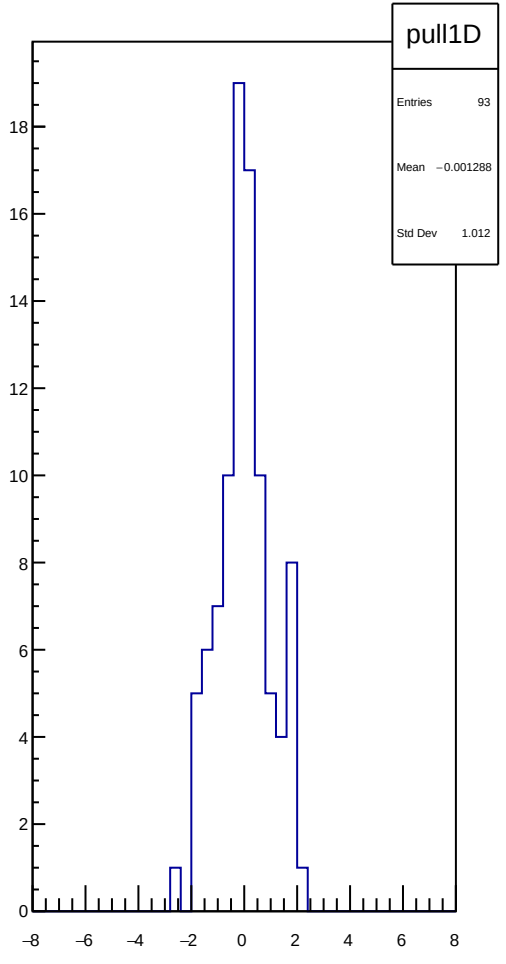

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.396e+04 / 92
p0 3860 ± 2.912
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

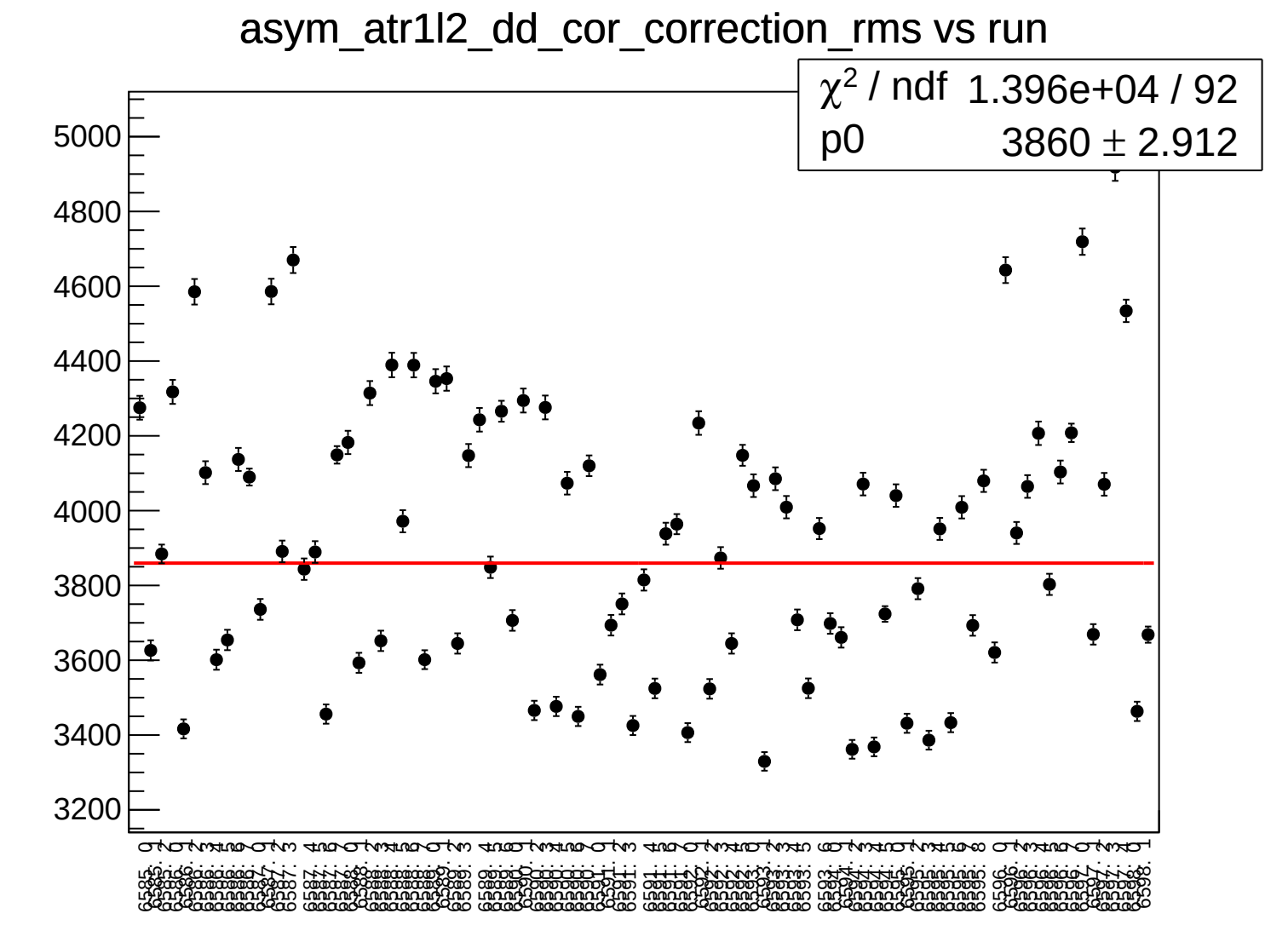

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 96.61 / 92
p0 −807 ± 2070
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 1551
Std Dev 0
2
1
0
−1
−2

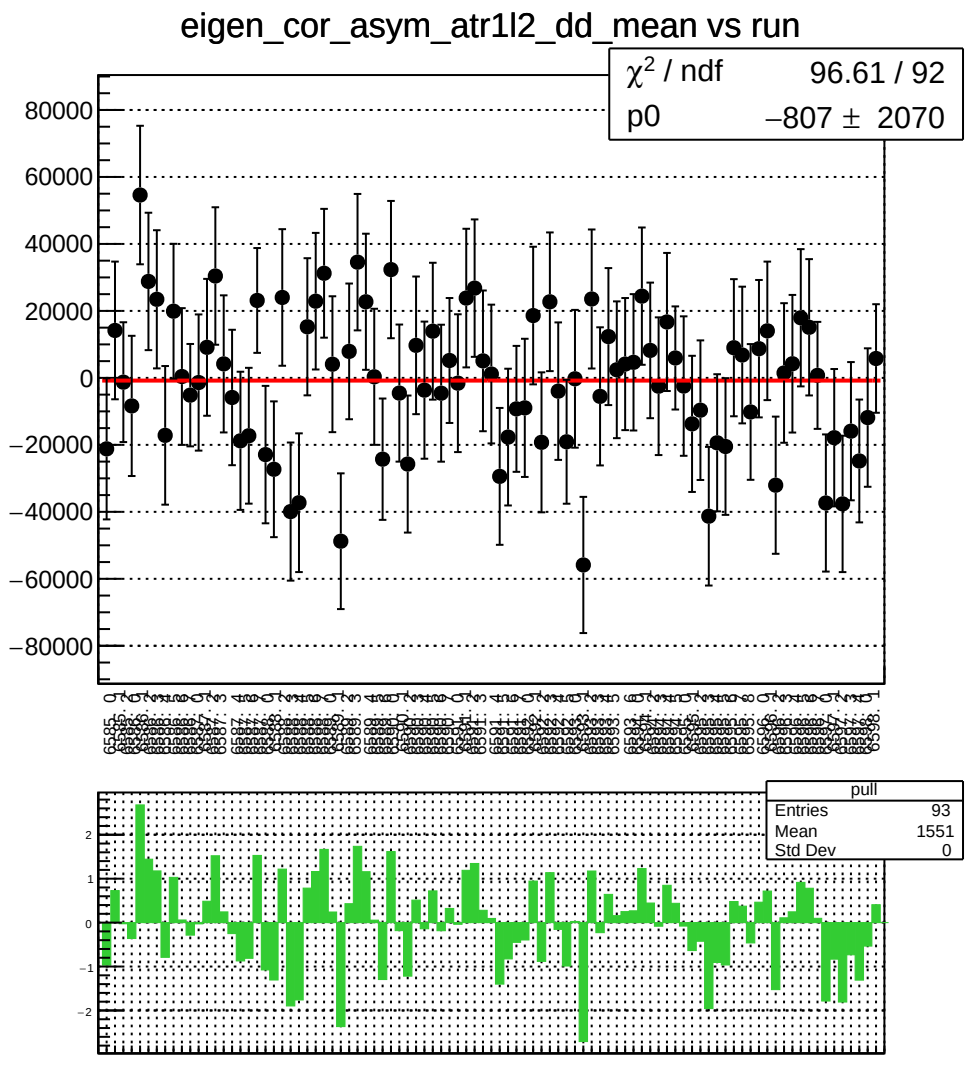

pull1D
Entries 93
Mean −0.003603
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

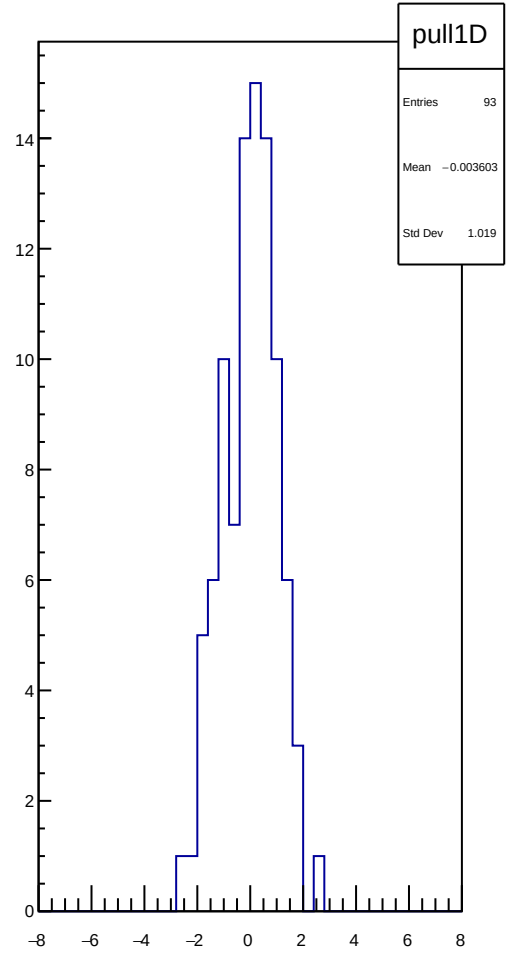

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 123.3 / 92
p0 1947 ± 1.464
2020
2000
1980
1960
1940
1920
1900

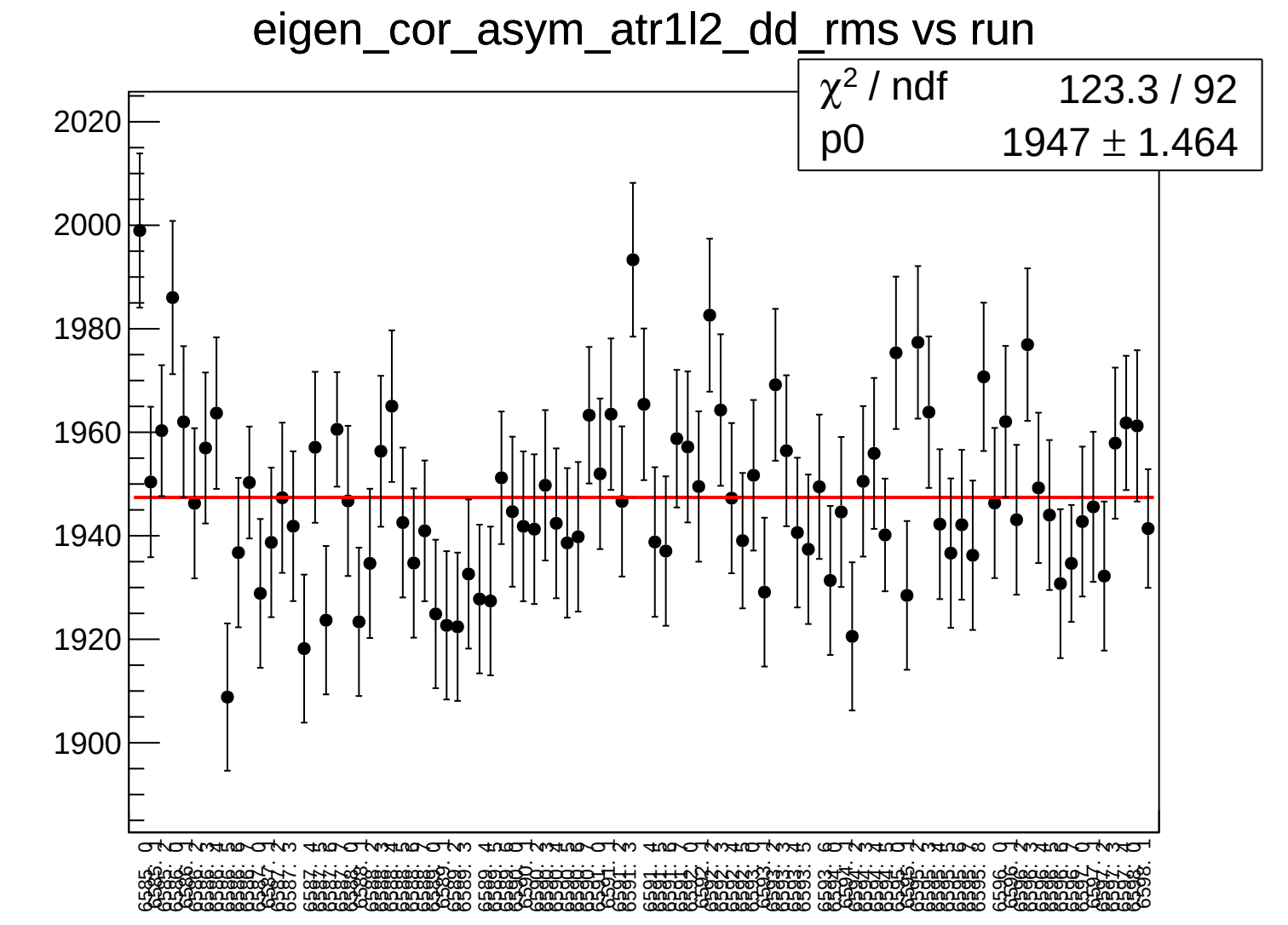

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 95.28 / 92
p0 −2109 ± 4118
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 154.2
Std Dev 281
2
1
0
−1
−2
−3

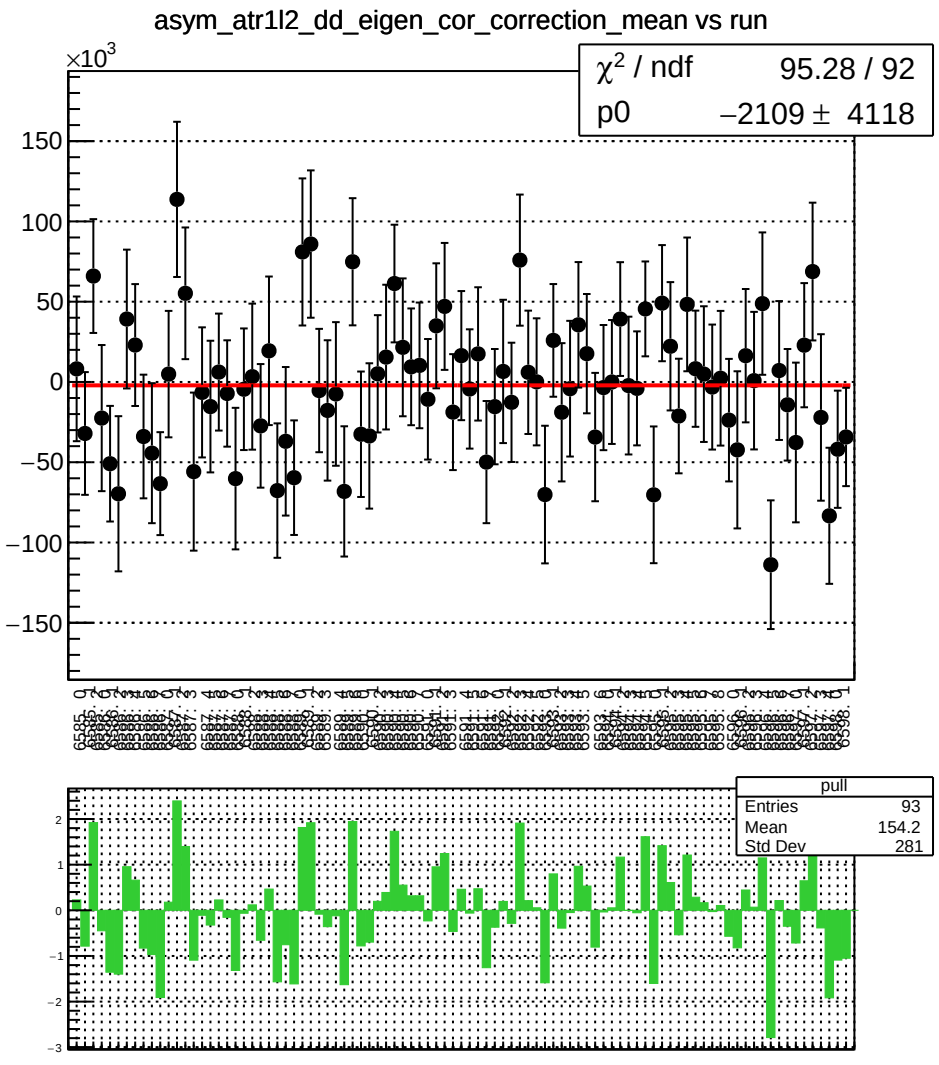

pull1D
Entries 93
Mean −0.001288
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

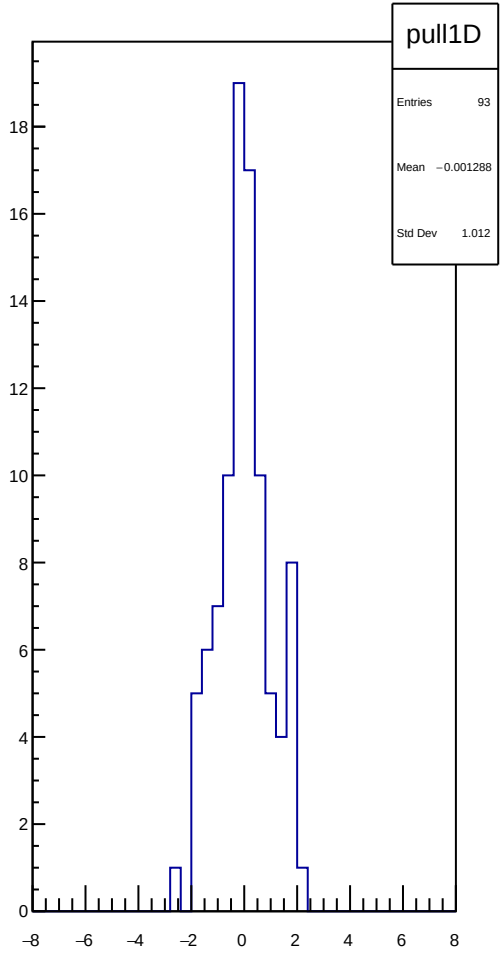

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.396e+04 / 92
p0 3860 ± 2.912
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

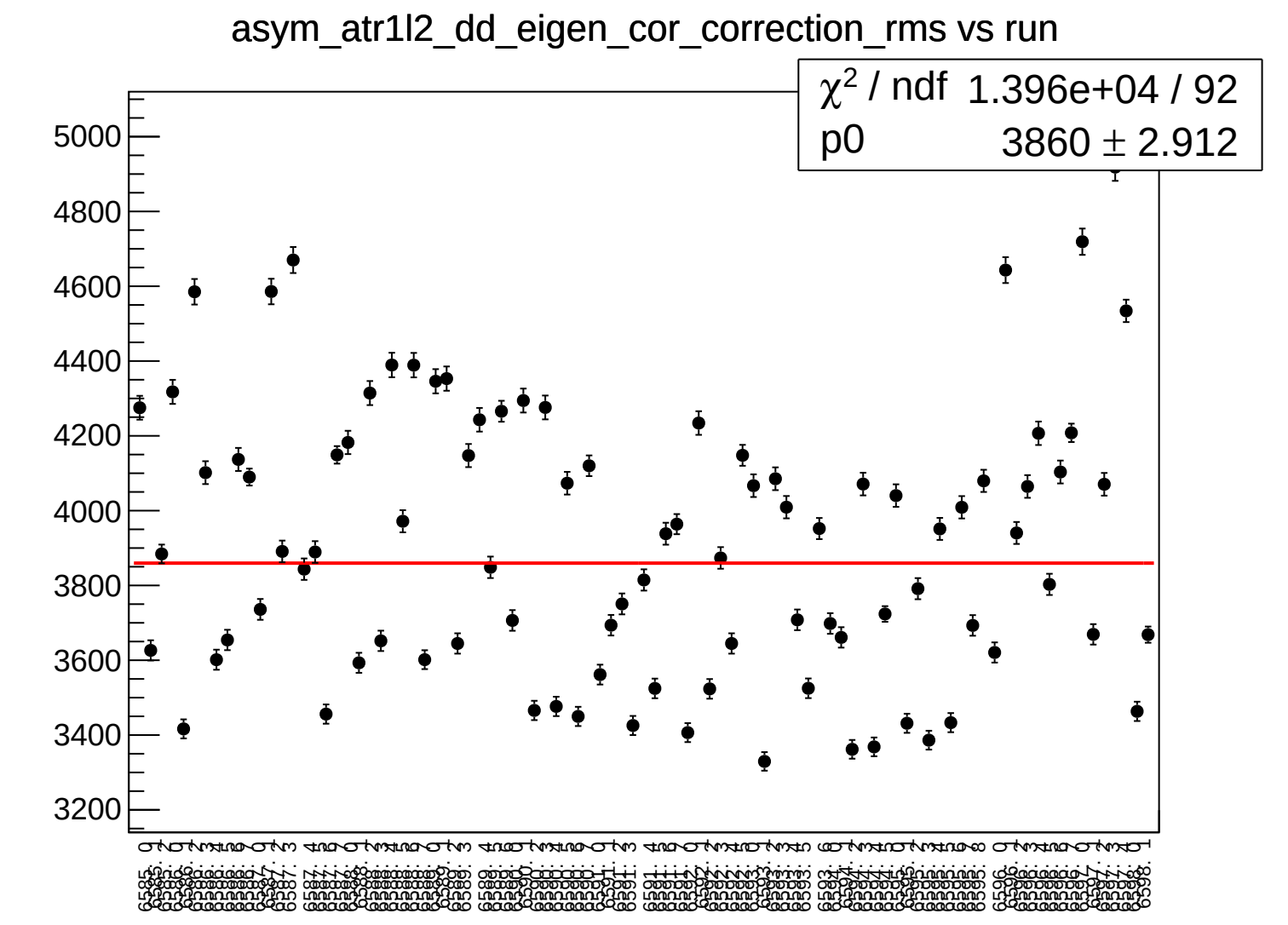

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 96.61 / 92
p0 −807 ± 2070
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 1551
Std Dev 0
2
1
0
−1
−2

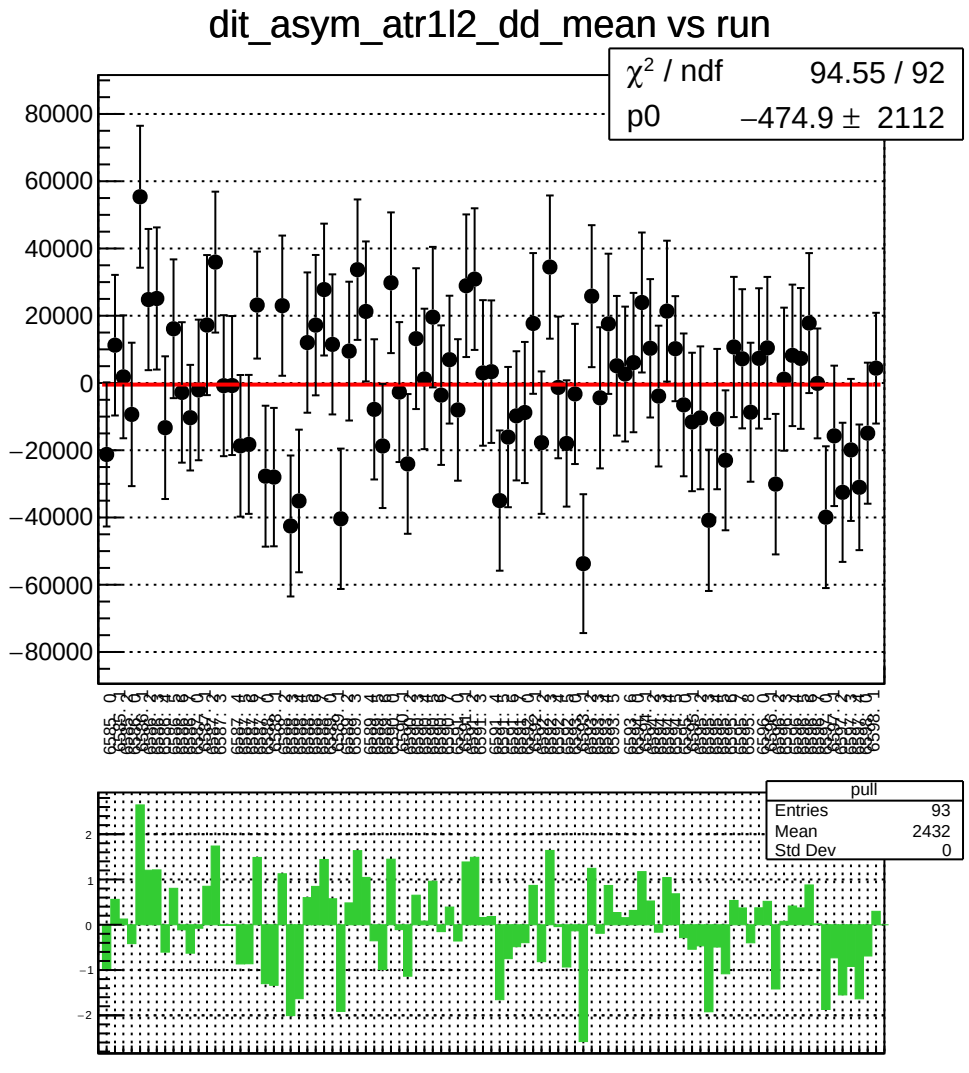

pull1D
Entries 93
Mean −0.003603
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

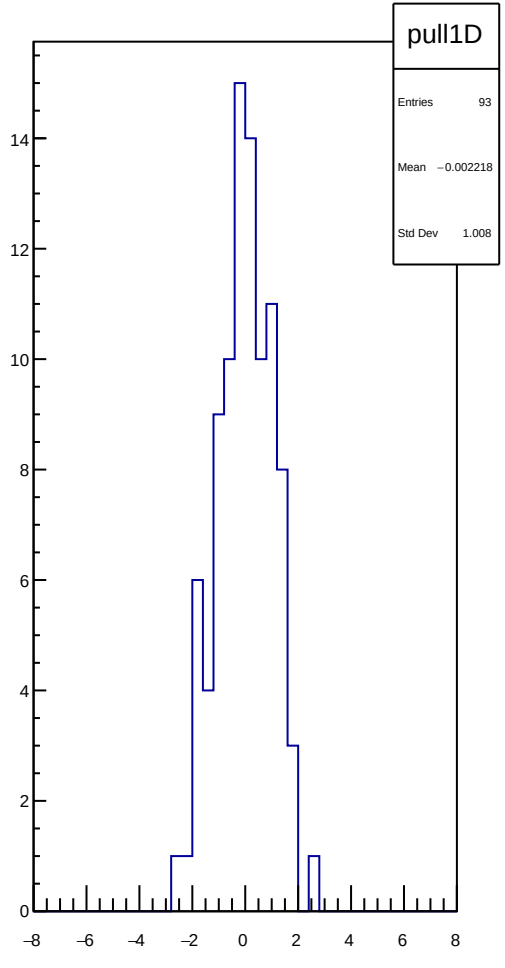

eigen_cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 123.3 / 92
p0 1947 ± 1.464
2020
2000
1980
1960
1940
1920
1900

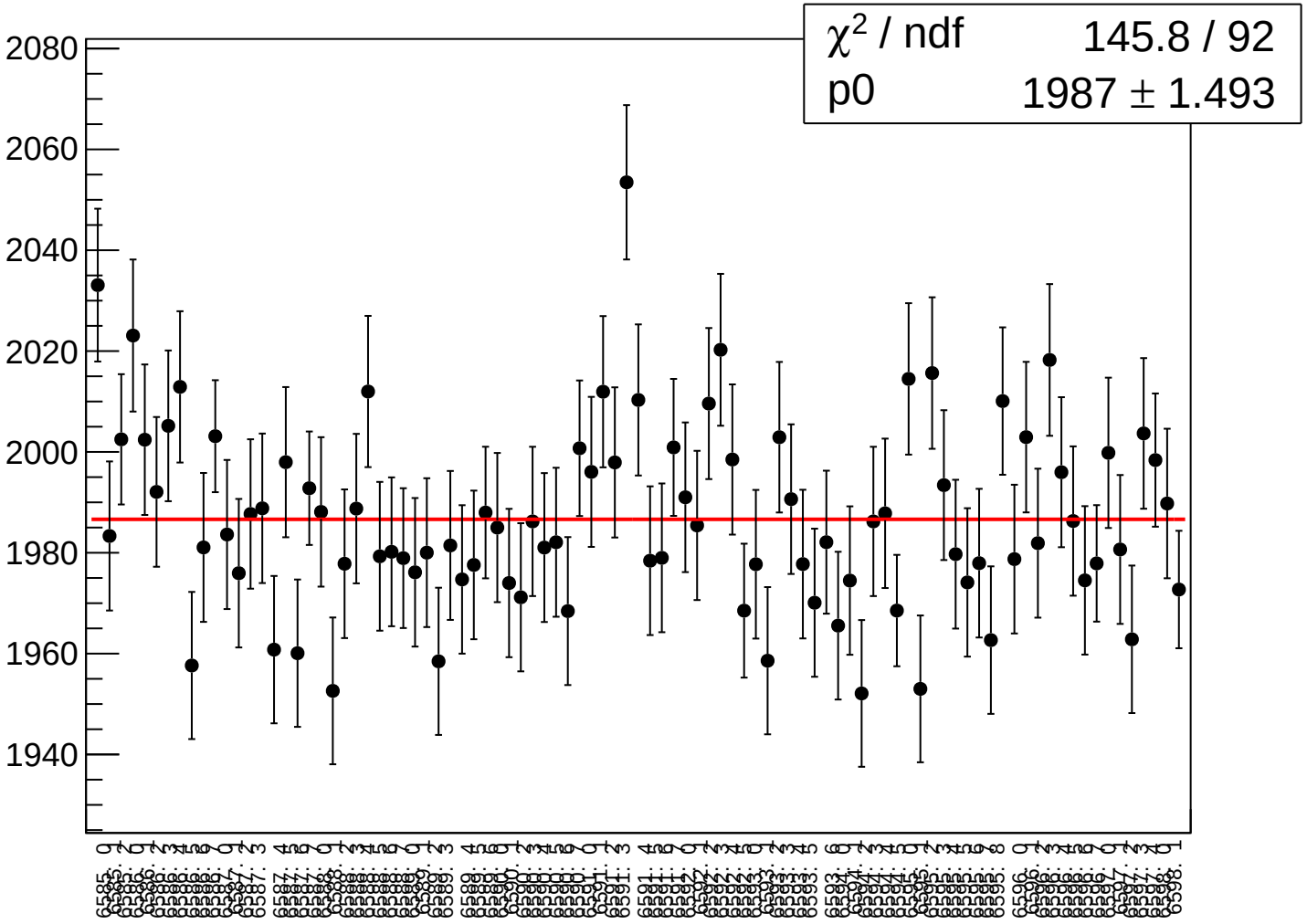

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.28 / 92
p0 −2109 ± 4118
×10³
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 154.2
Std Dev 281
2
1
0
−1
−2
−3

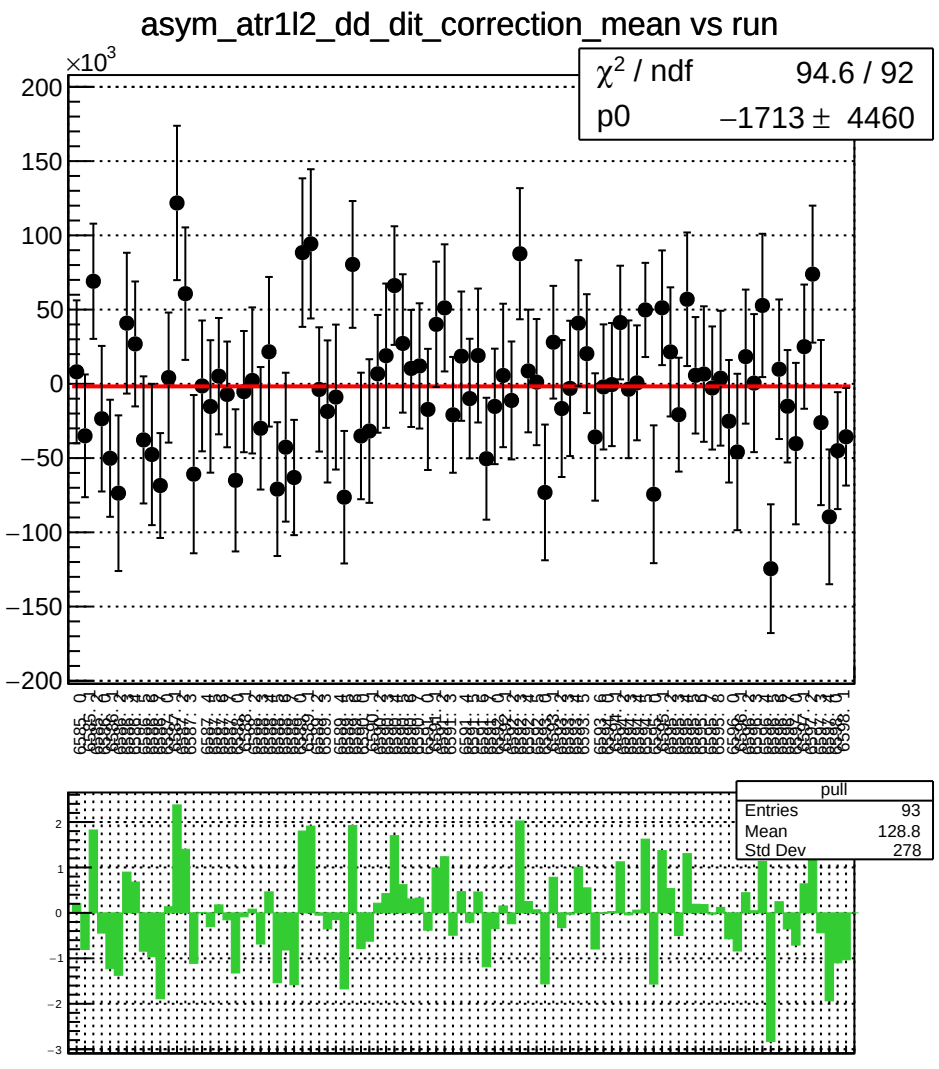

pull1D
Entries 93
Mean −0.001288
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

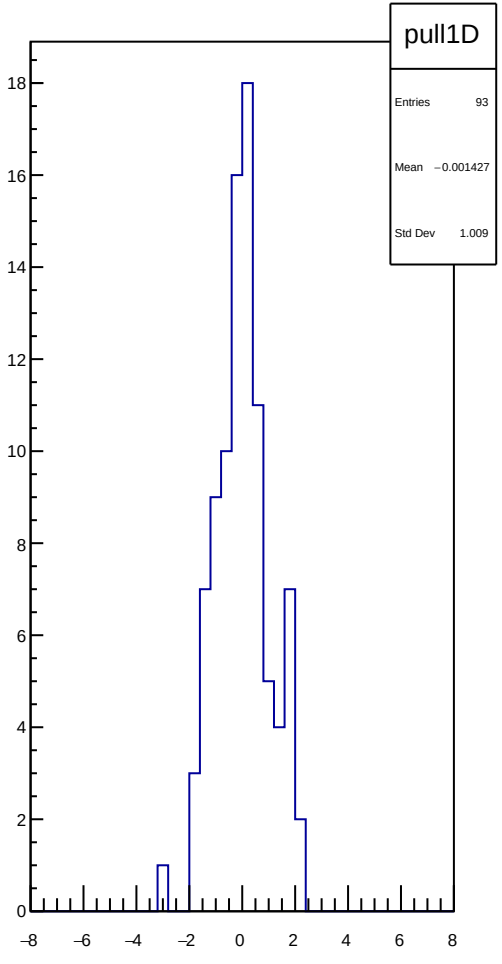

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.396e+04 / 92
p0 3860 ± 2.912
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

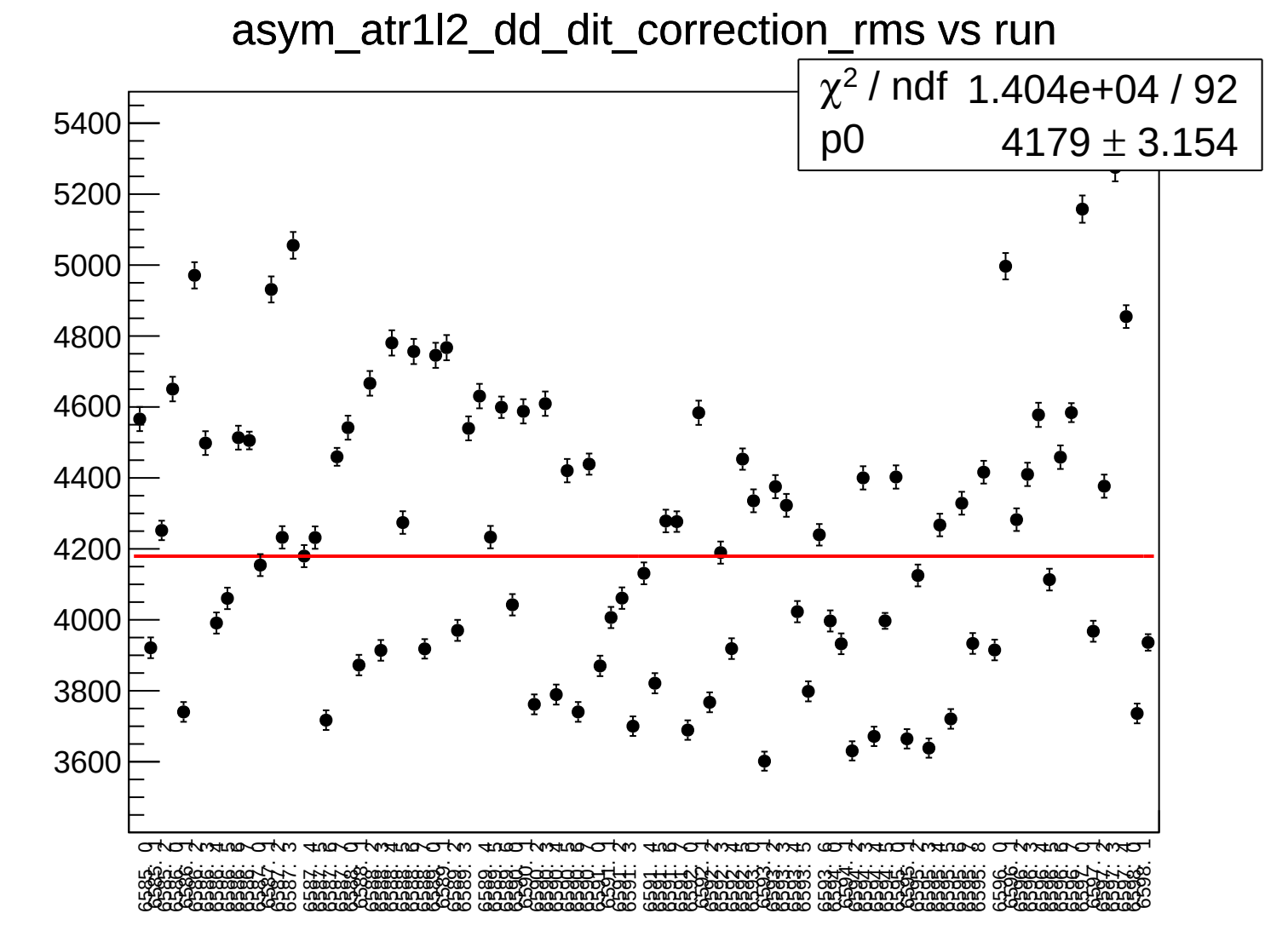

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 94.55 / 92
p0 −474.9 ± 2112
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 2432
Std Dev 0
2
1
0
−1
−2

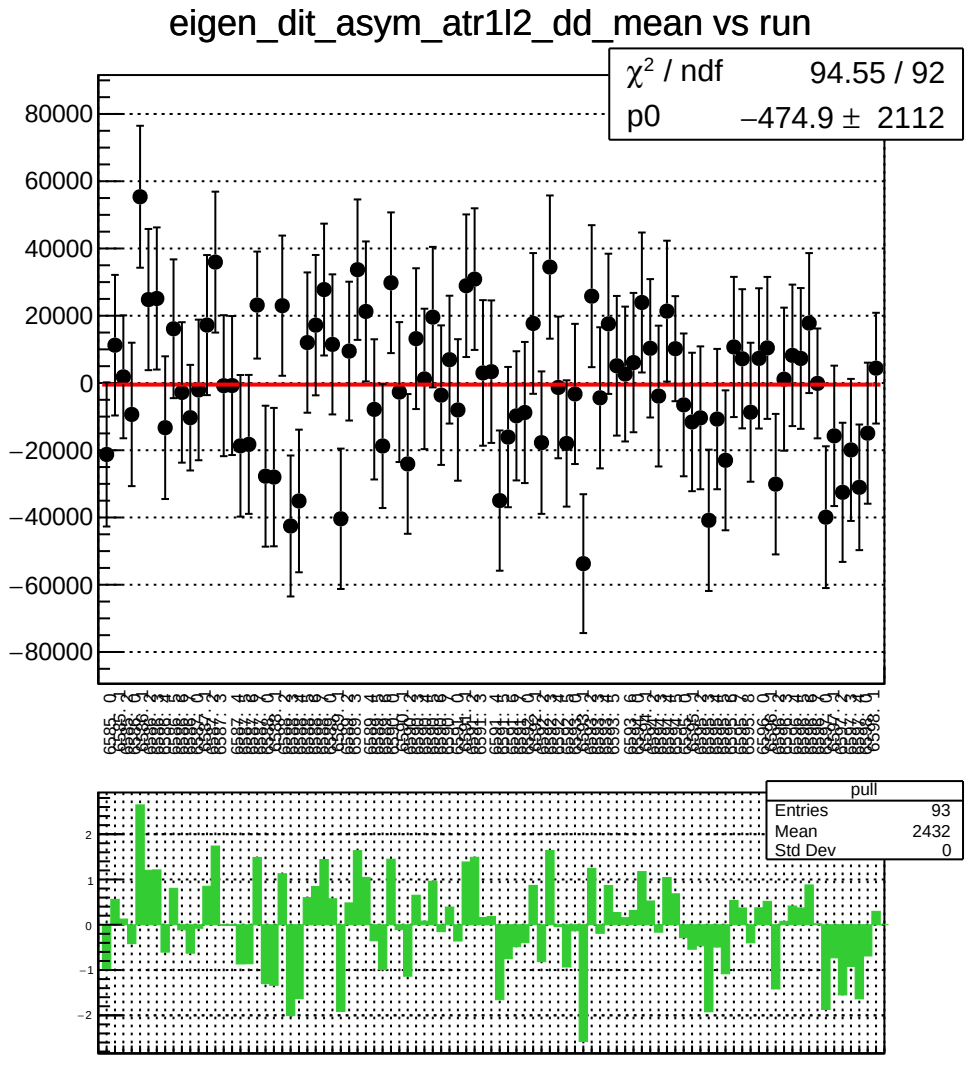

pull1D
Entries 93
Mean −0.002218
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

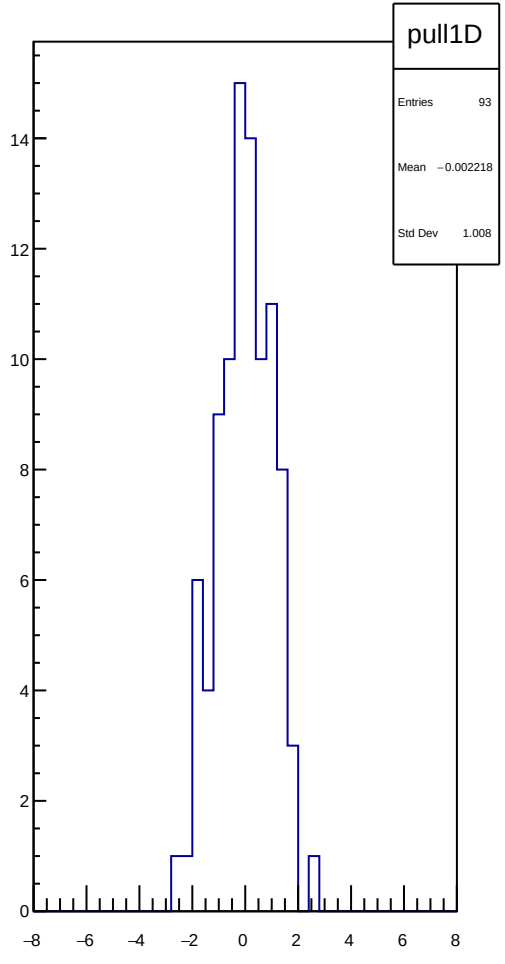

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 145.8 / 92
p0 1987 ± 1.493
2080
2060
2040
2020
2000
1980
1960
1940

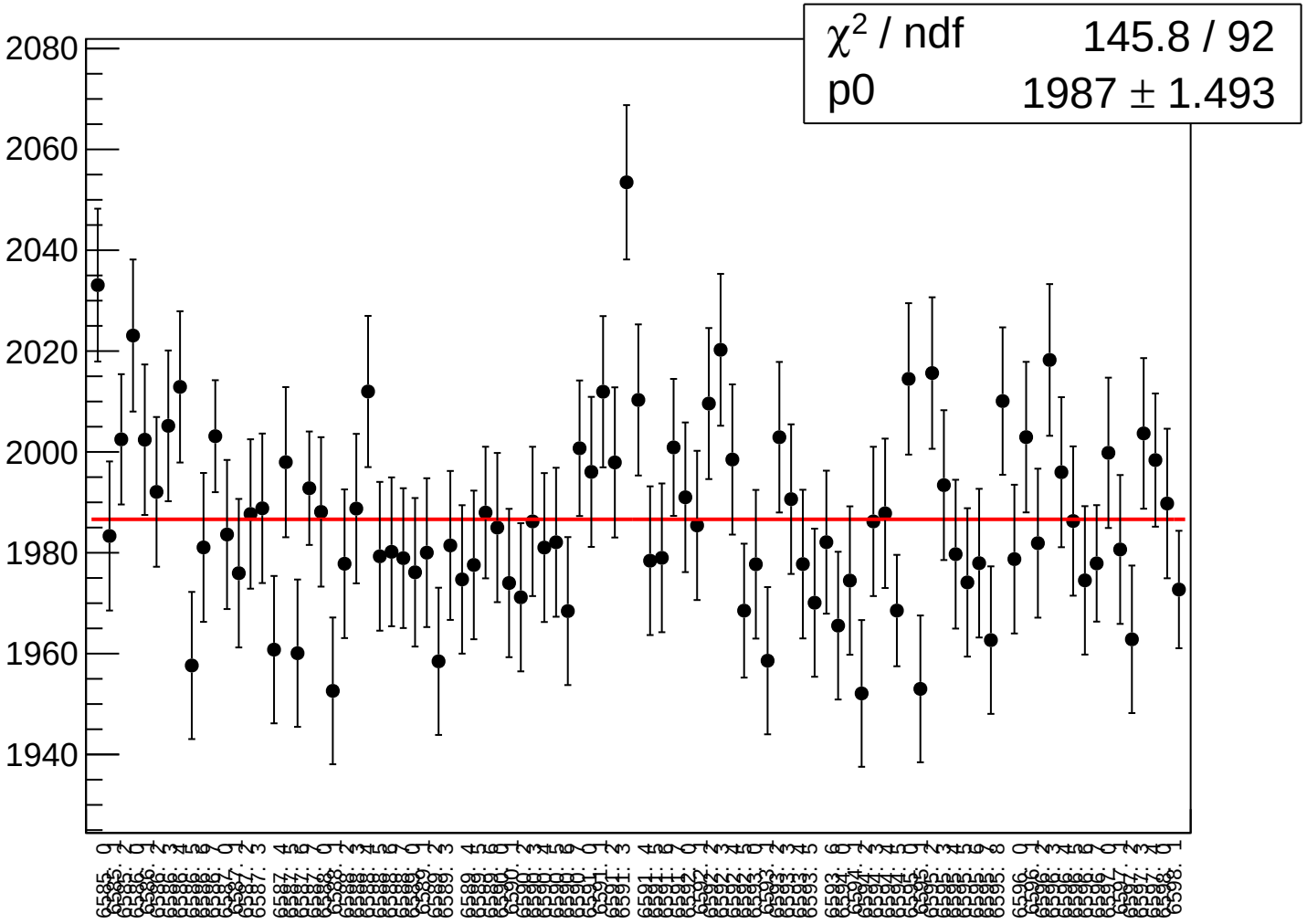

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 94.6 / 92
p0 −1713 ± 4460
pull
Entries 93
Mean 128.8
Std Dev 278

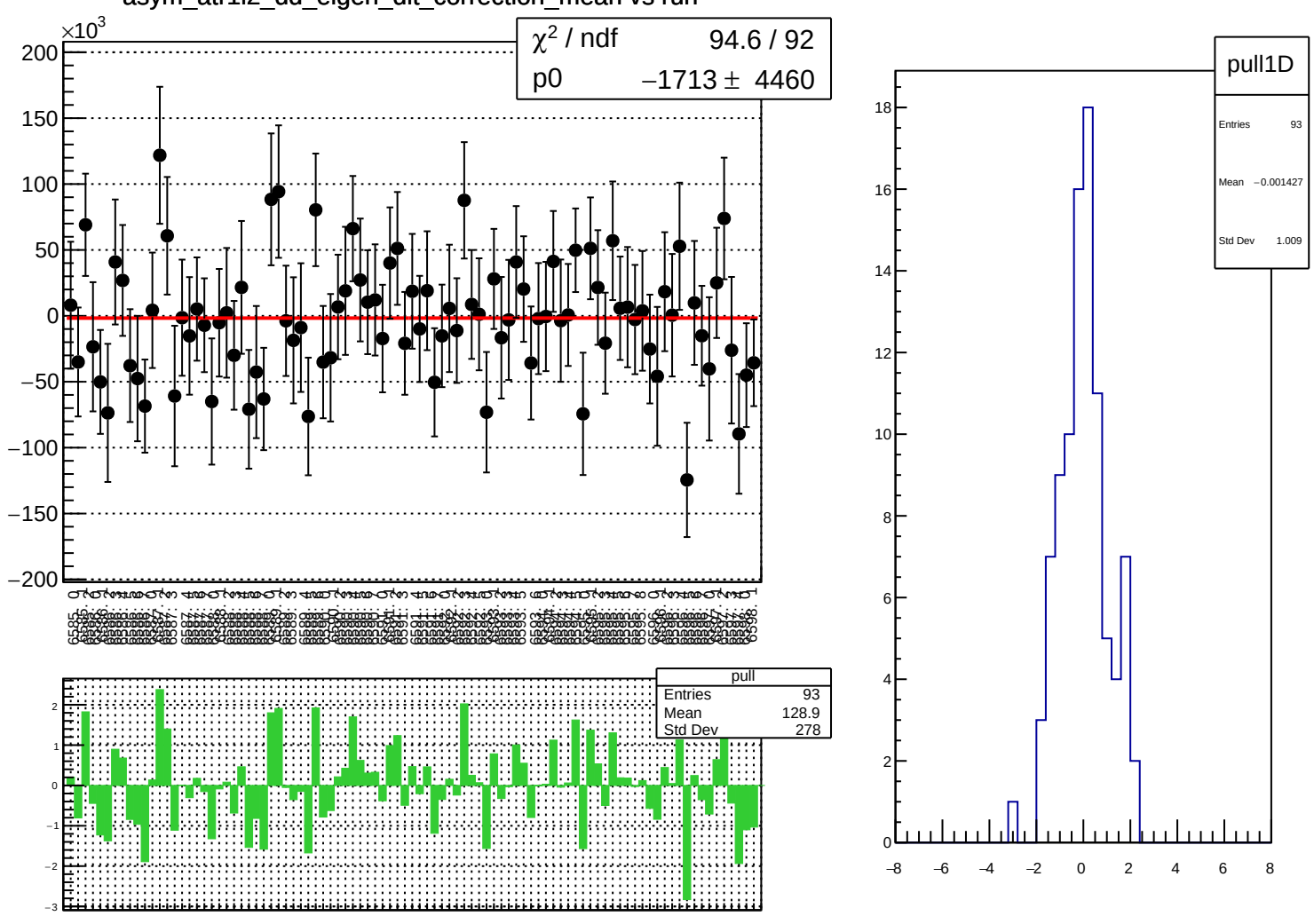

pull1D
Entries 93
Mean −0.001427
Std Dev 1.009

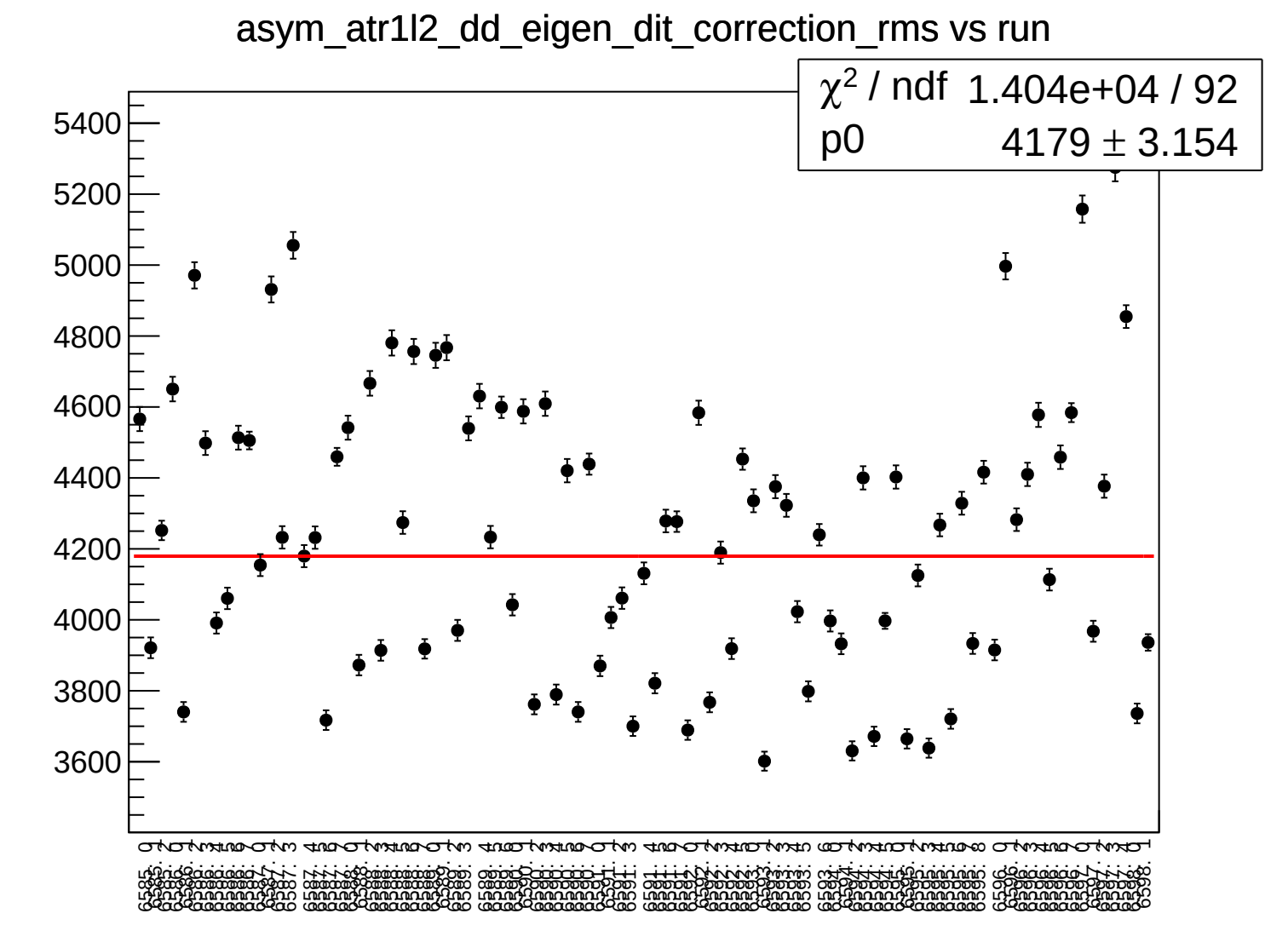

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.404e+04 / 92
p0 4179 ± 3.154
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

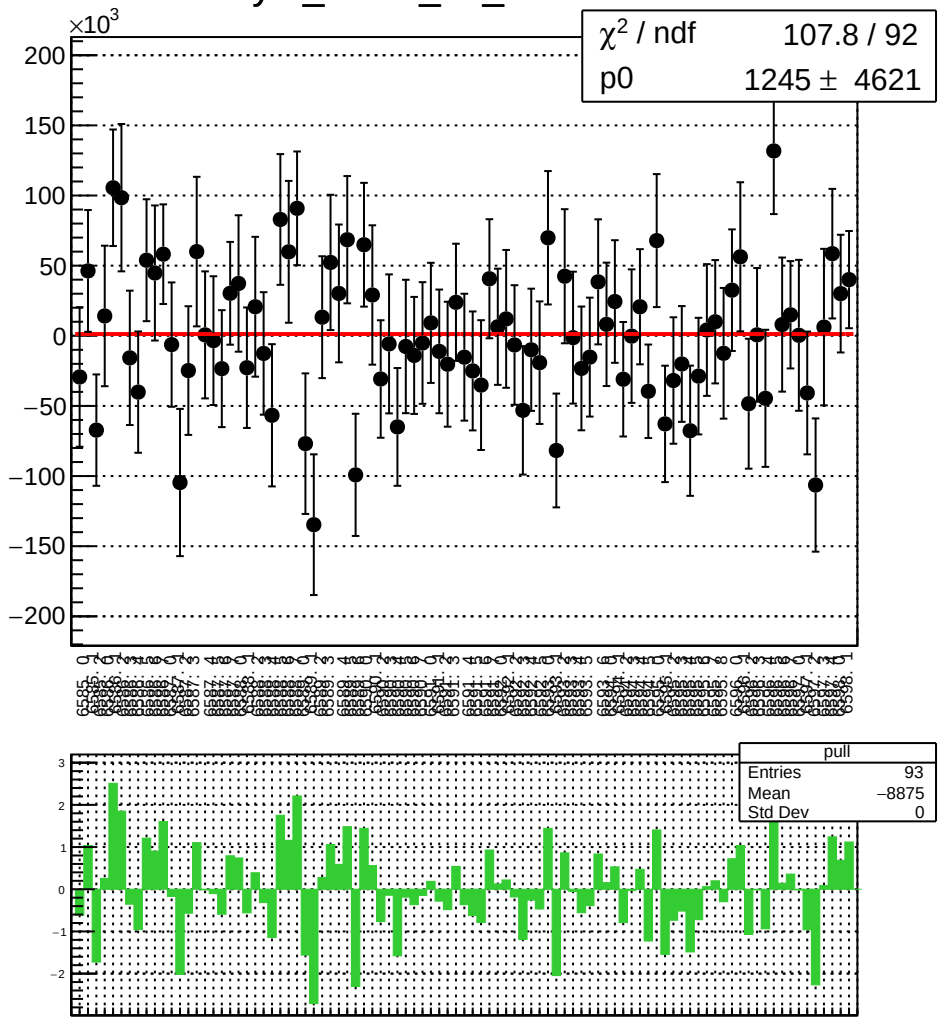

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 94.55 / 92
p0 −474.9 ± 2112
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 2432
Std Dev 0
2
1
0
−1
−2

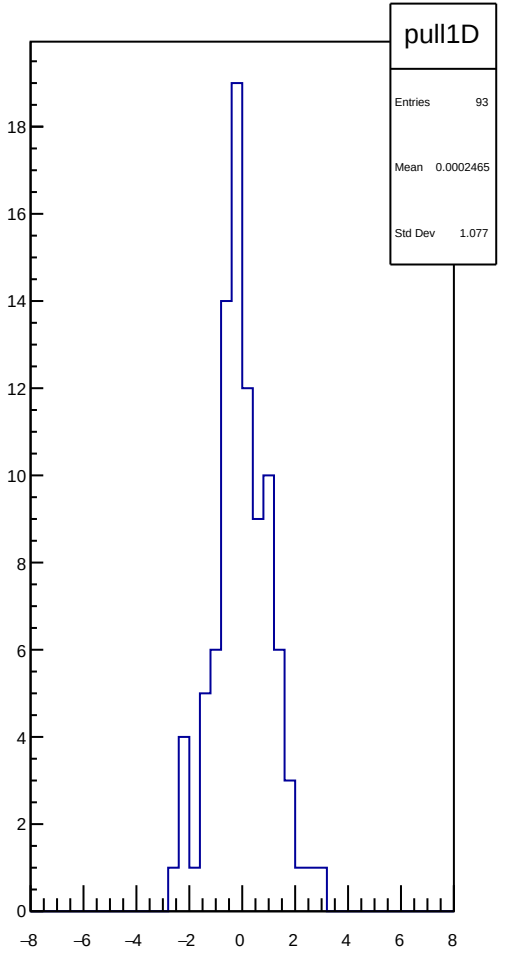

pull1D
Entries 93
Mean −0.002218
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

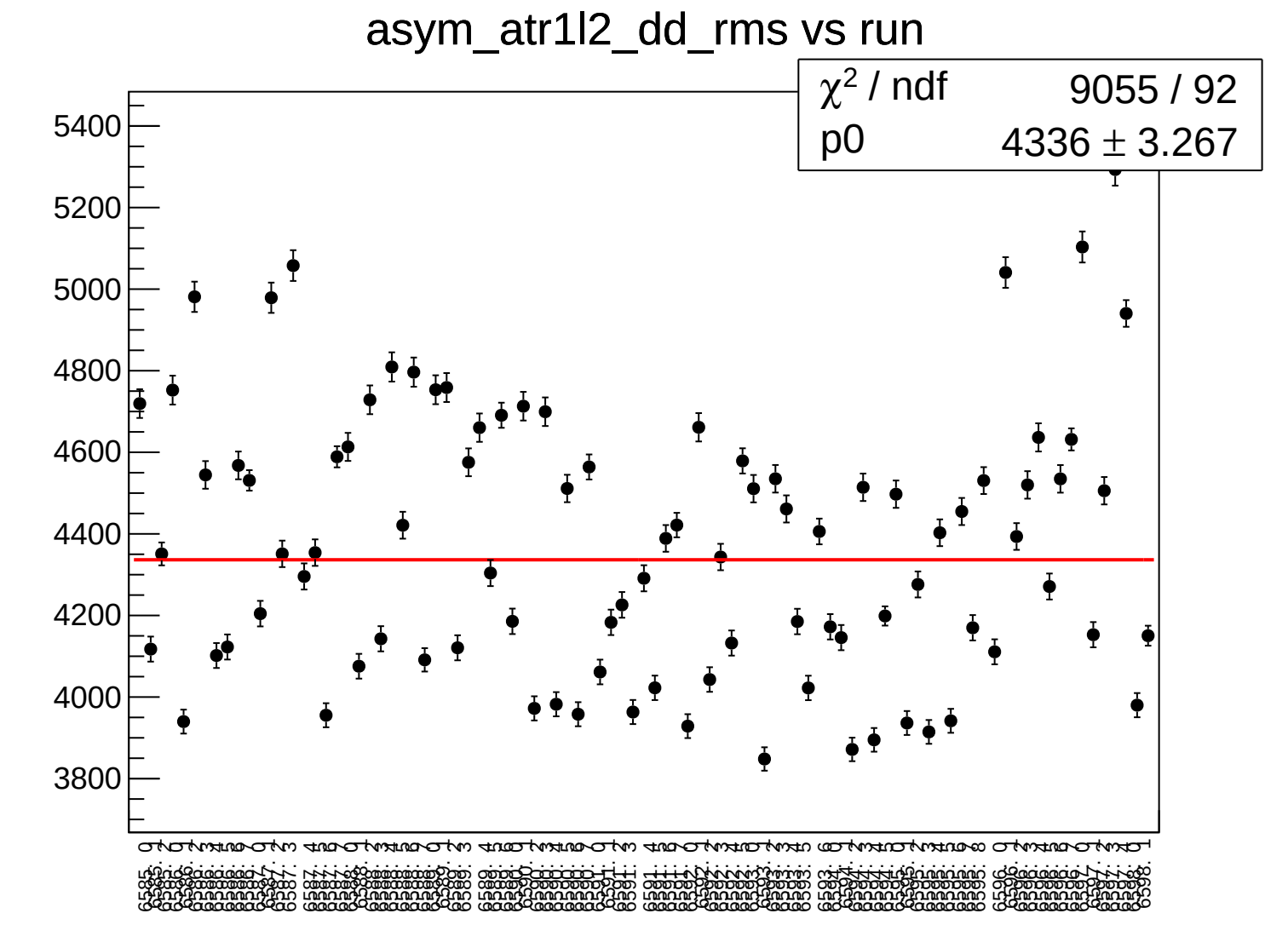

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 145.8 / 92
p0 1987 ± 1.493
2080
2060
2040
2020
2000
1980
1960
1940

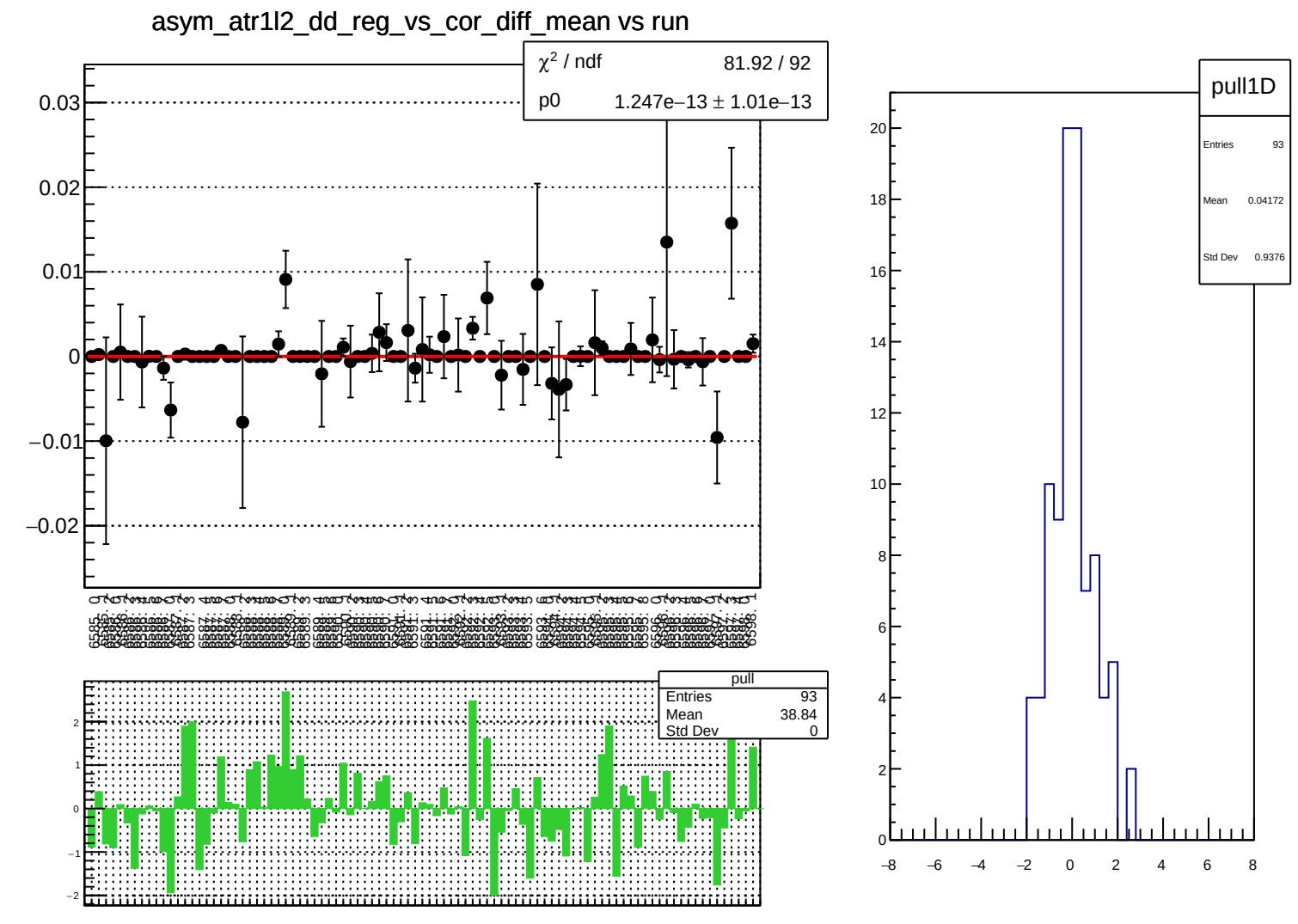

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.6 / 92
p0 −1713 ± 4460
pull
Entries 93
Mean 128.9
Std Dev 278
pull1D
Entries 93
Mean −0.001427
Std Dev 1.009

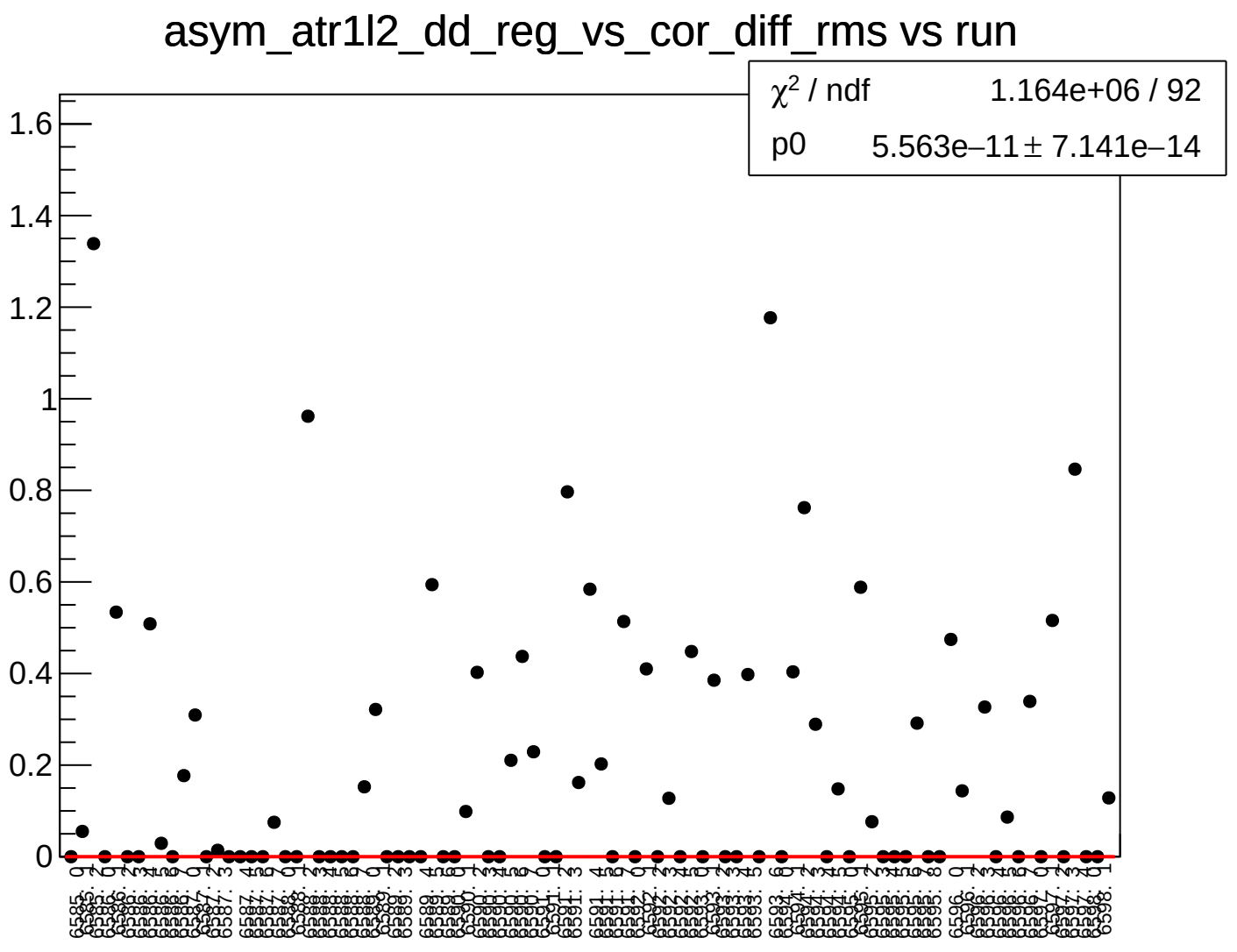

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.404e+04 / 92
p0 4179 ± 3.154
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

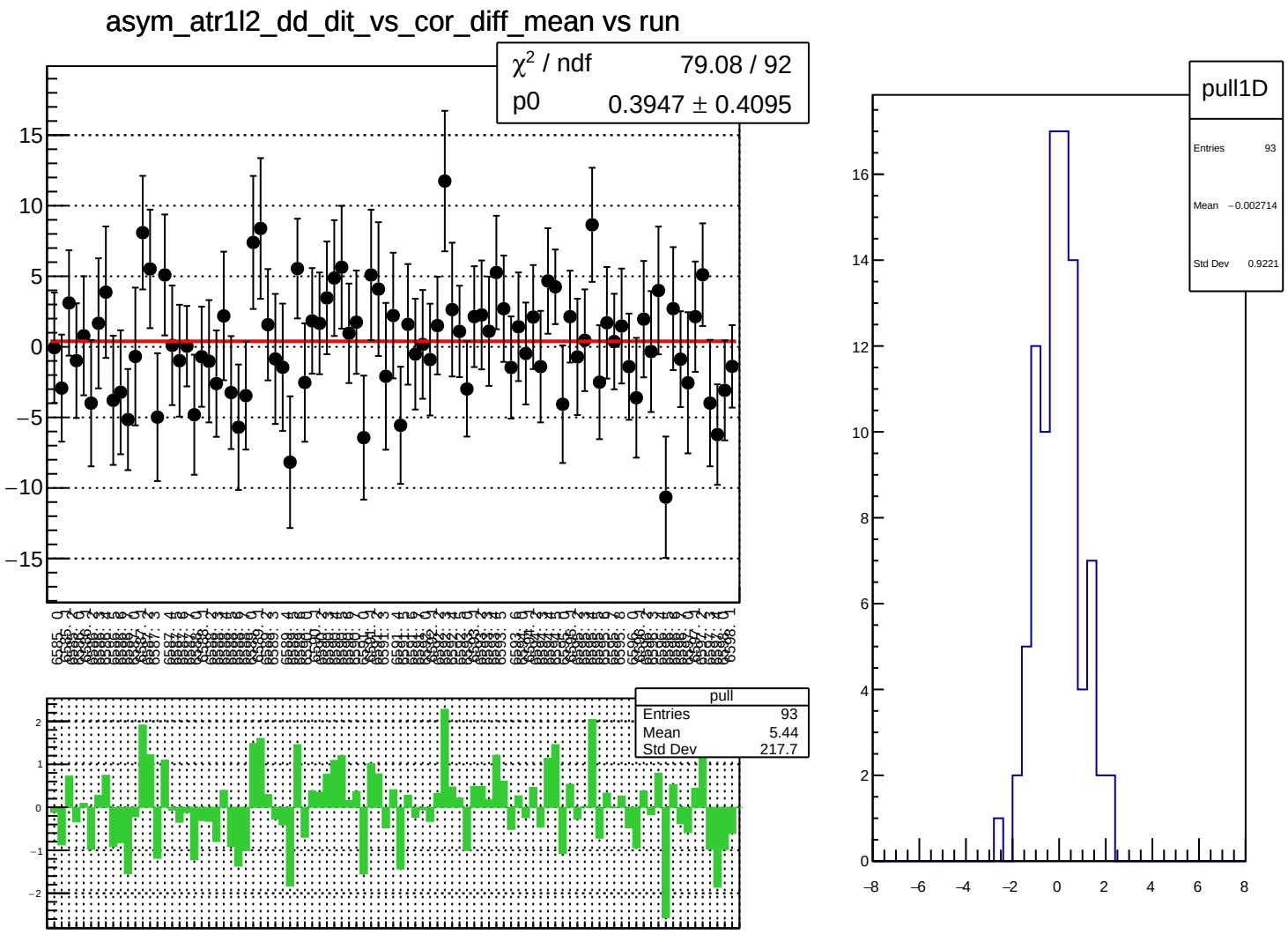

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 107.8 / 92
p0 1245 ± 4621
pull
Entries 93
Mean −8875
Std Dev 0

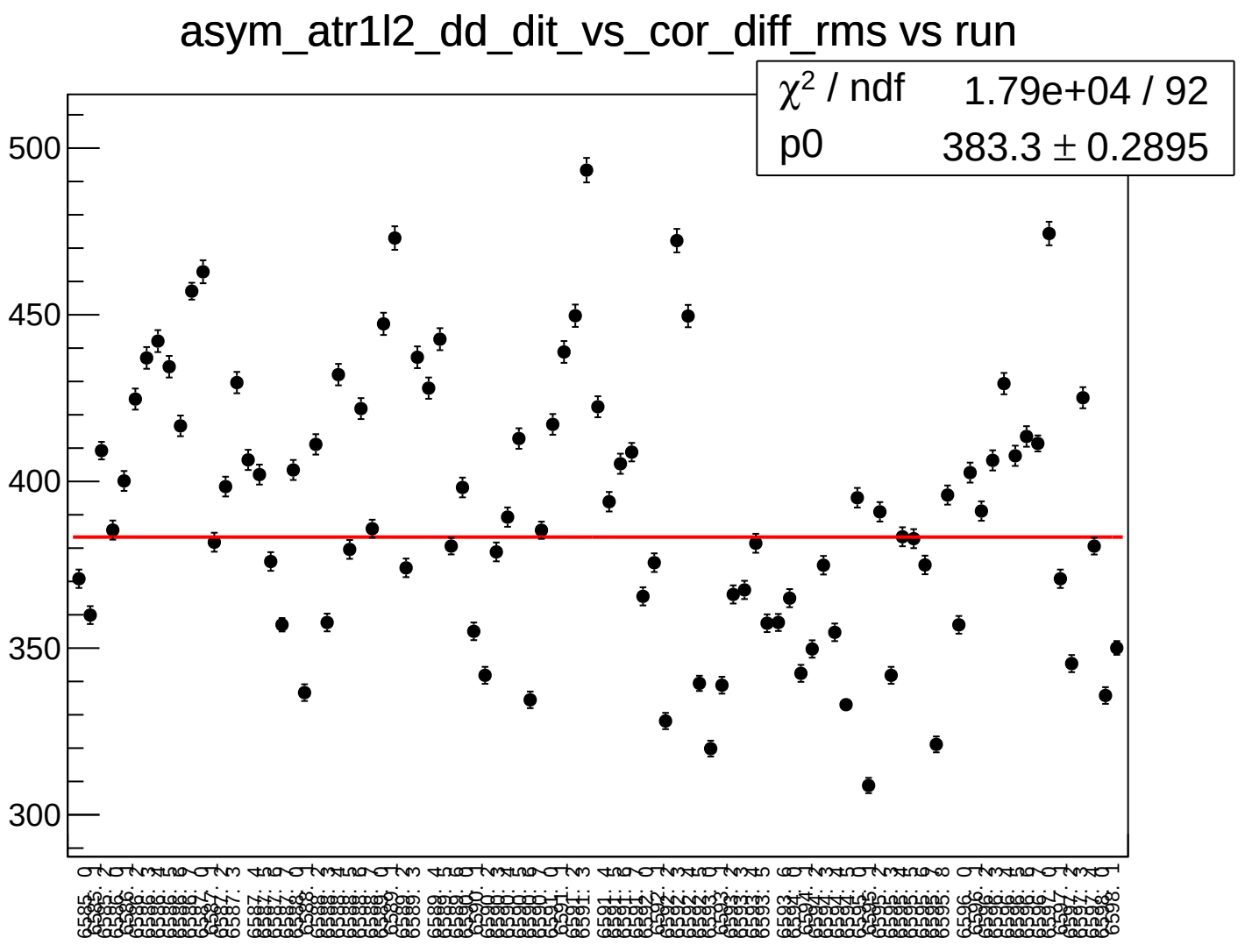

pull1D
Entries 93
Mean 0.0002465
Std Dev 1.077

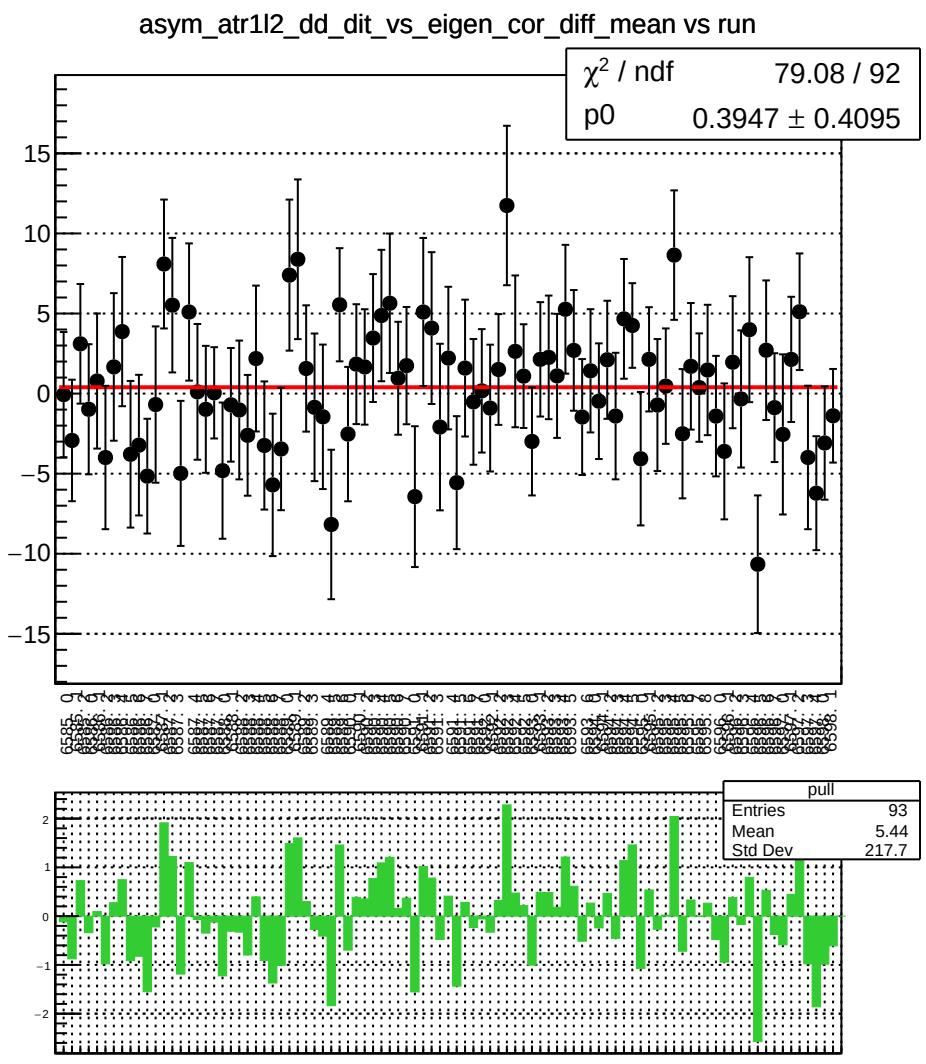

asym_atr1l2_dd_rms vs run
χ^2 / ndf 9055 / 92
p0 4336 ± 3.267
5400
5200
5000
4800
4600
4400
4200
4000
3800

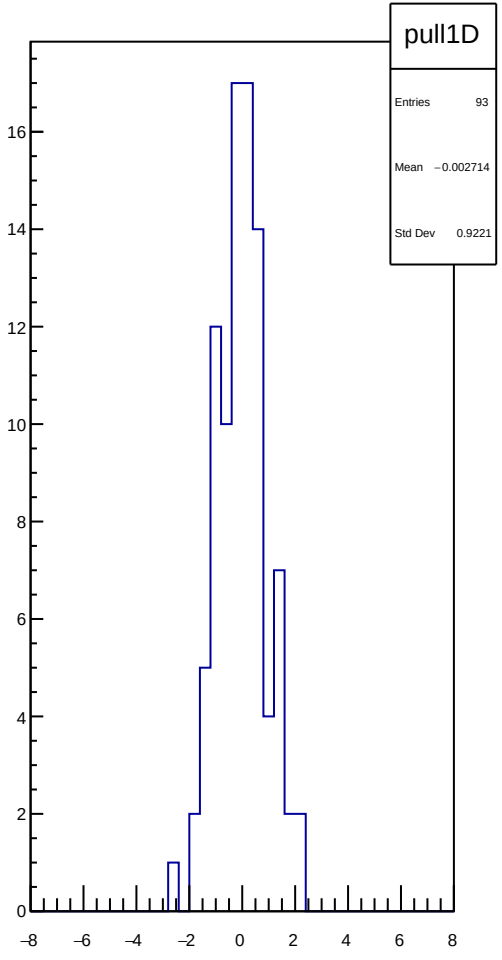

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.92 / 92
p0 1.247e−13 ± 1.01e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 38.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.04172
Std Dev 0.9376
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

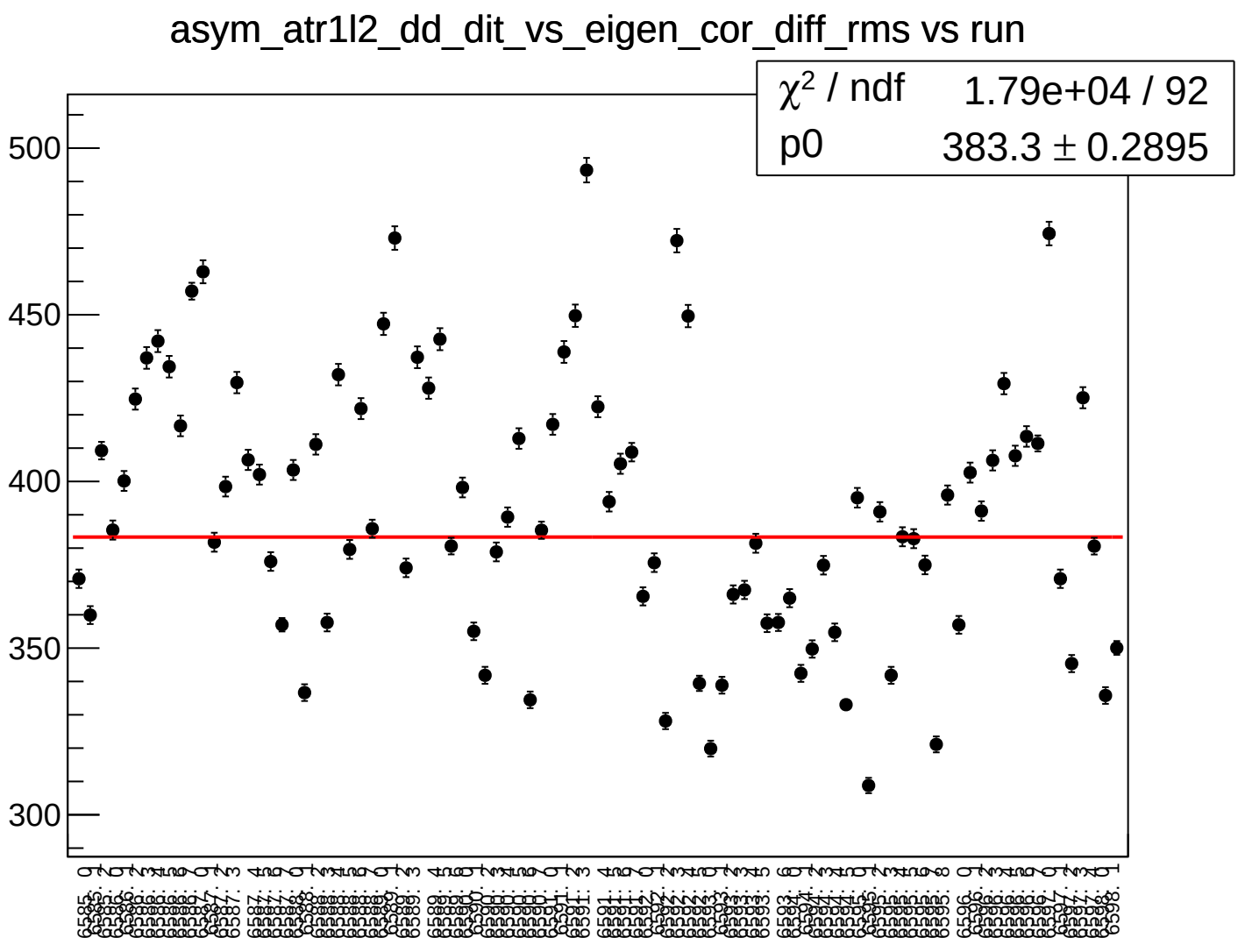

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.164e+06 / 92
p0 5.563e−11 ± 7.141e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

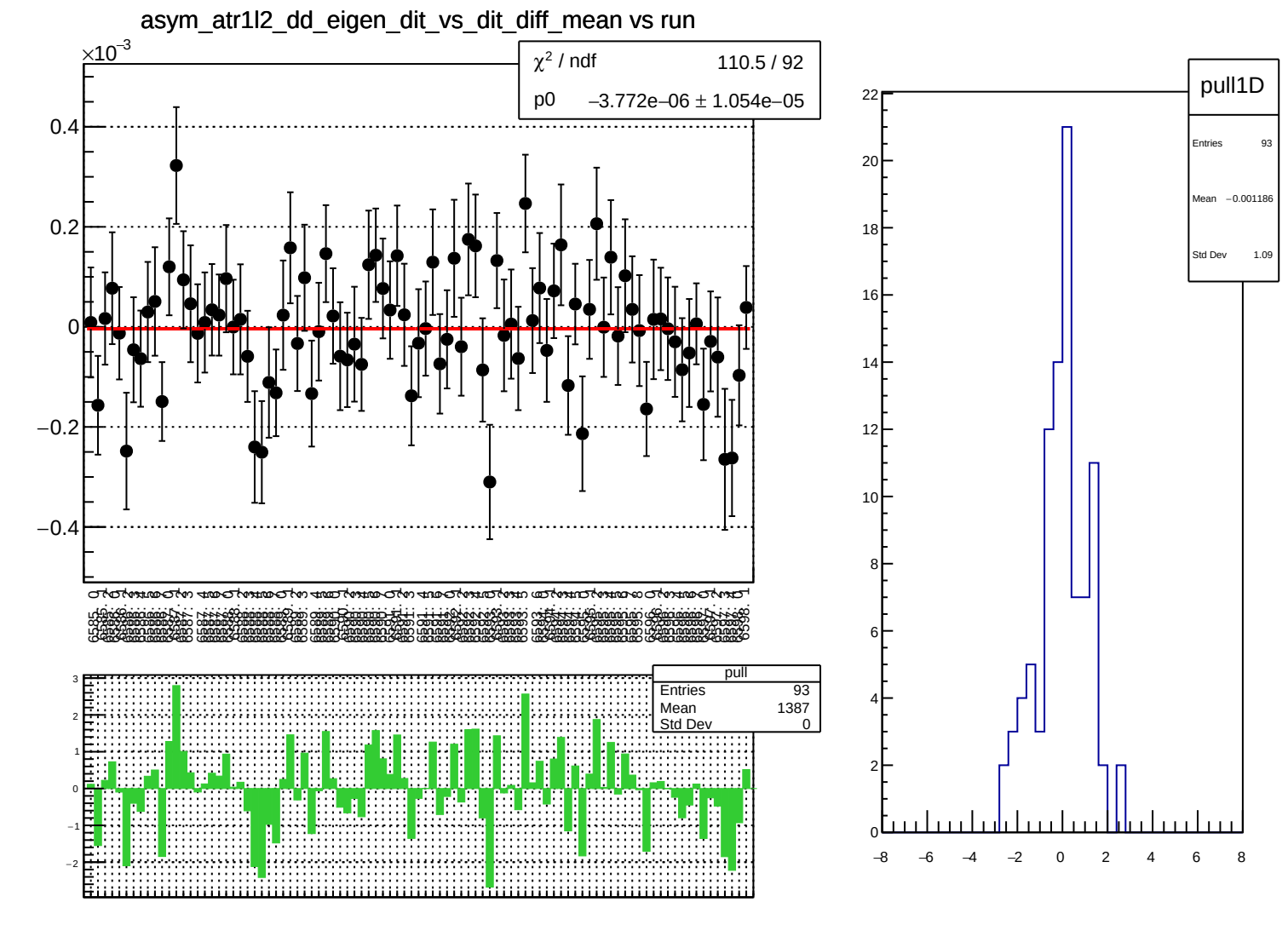

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.08 / 92
p0 0.3947 ± 0.4095
pull
Entries 93
Mean 5.44
Std Dev 217.7
pull1D
Entries 93
Mean −0.002714
Std Dev 0.9221

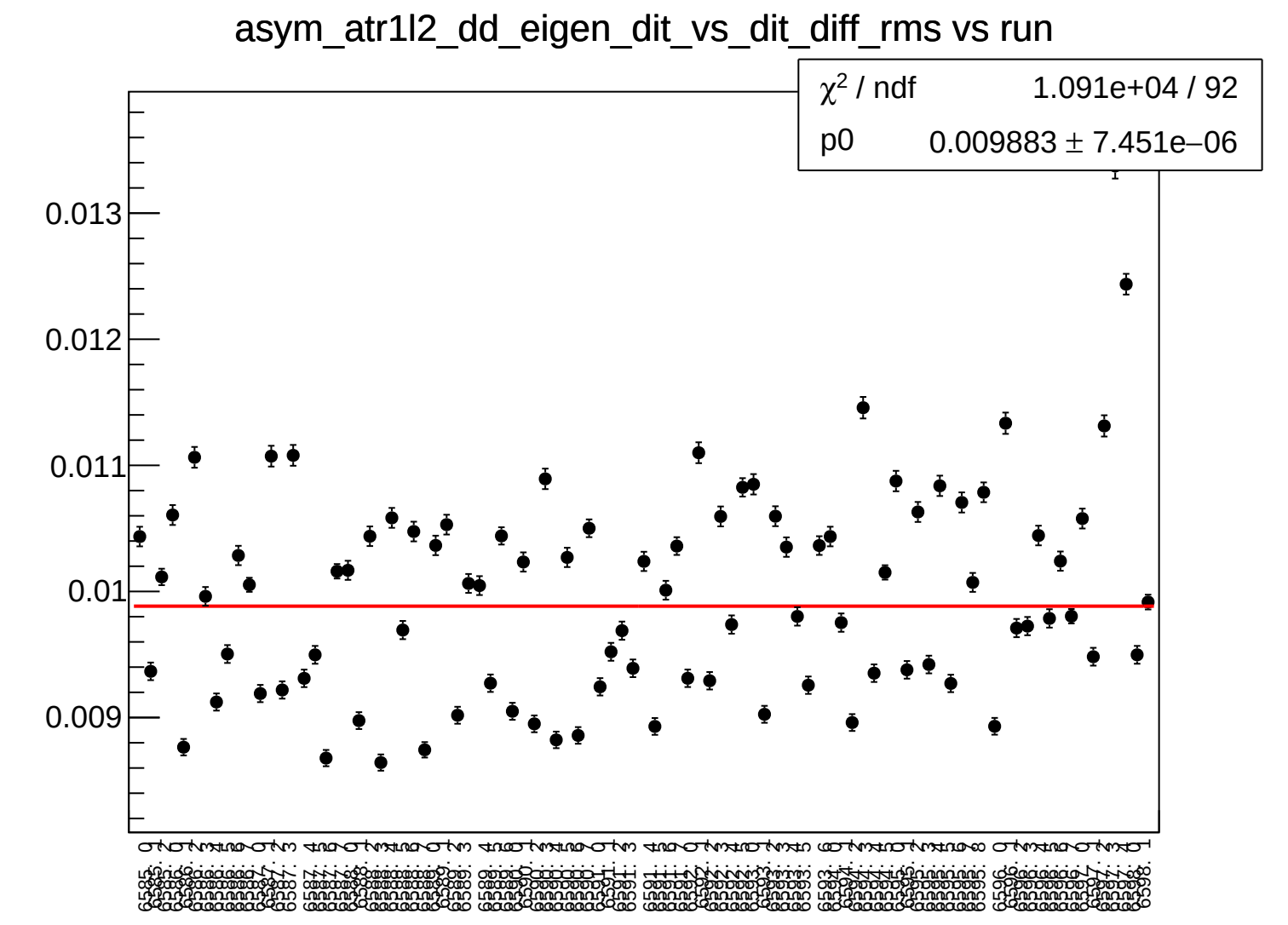

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.79e+04 / 92
p0 383.3 ± 0.2895
500
450
400
350
300

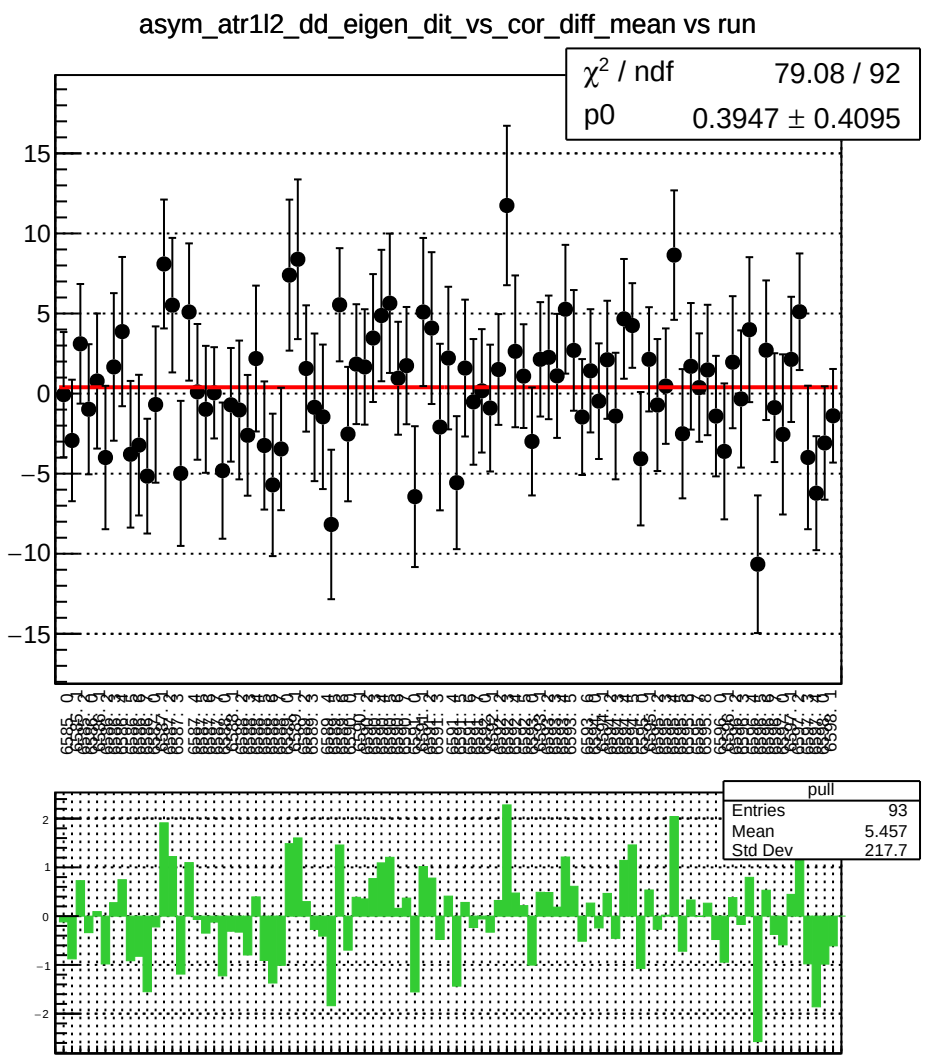

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.08 / 92
p0 0.3947 ± 0.4095
pull
Entries 93
Mean 5.44
Std Dev 217.7

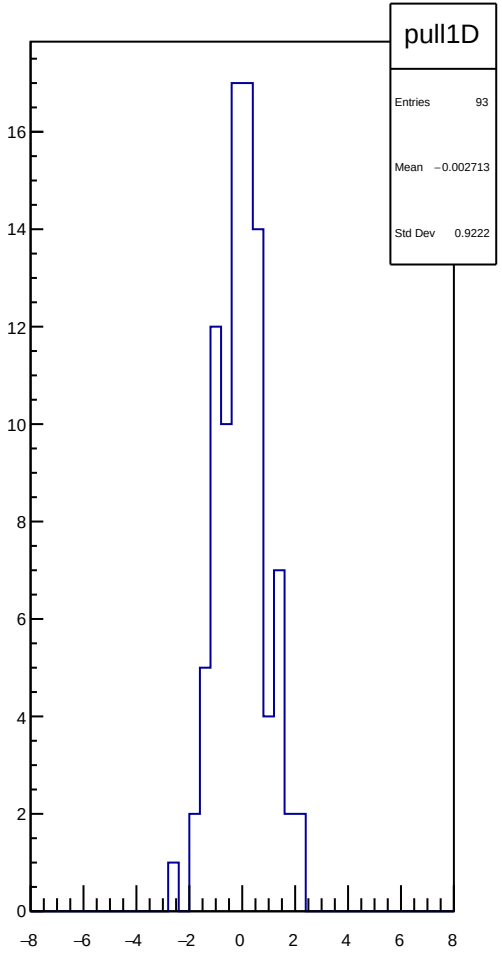

pull1D
Entries 93
Mean −0.002714
Std Dev 0.9221

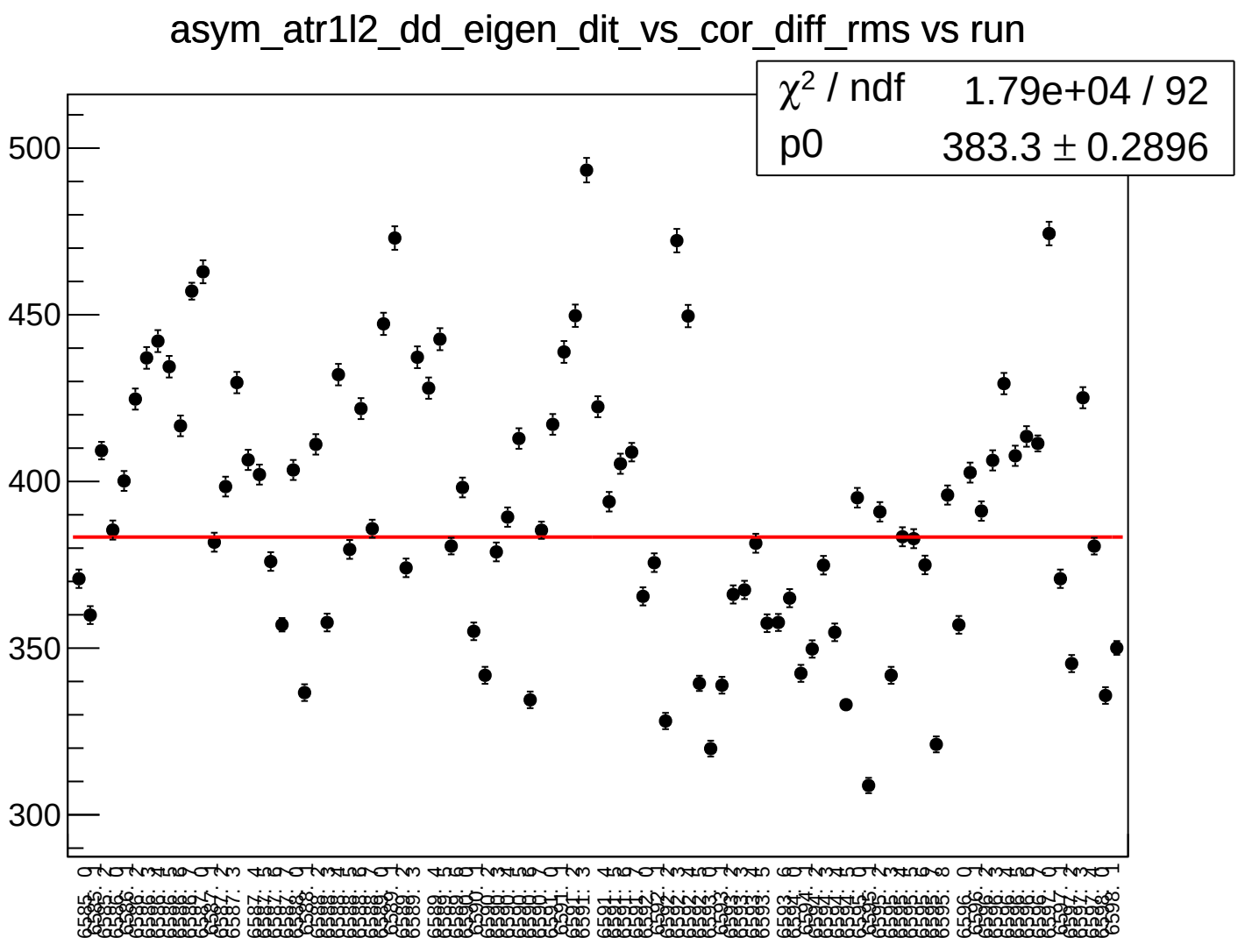

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.79e+04 / 92
p0 383.3 ± 0.2895
500
450
400
350
300

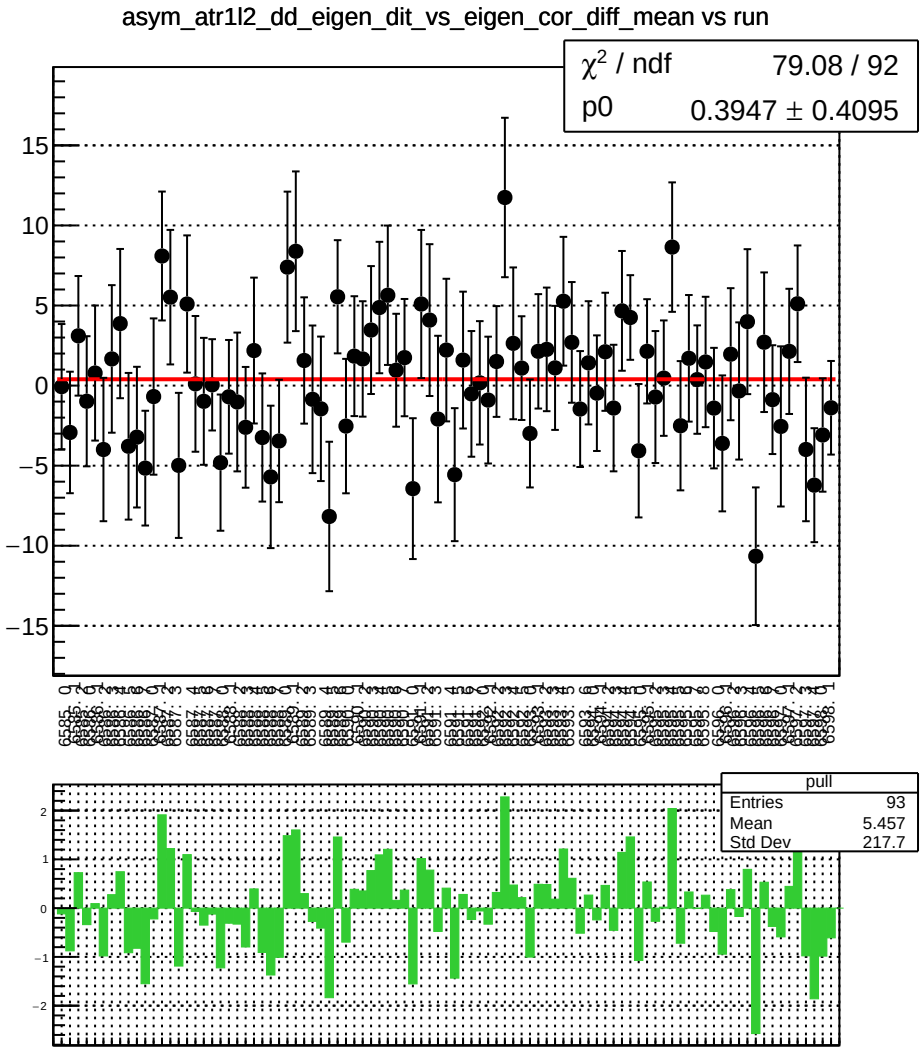

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 110.5 / 92
p0 −3.772e−06 ± 1.054e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 1387
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001186
Std Dev 1.09
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

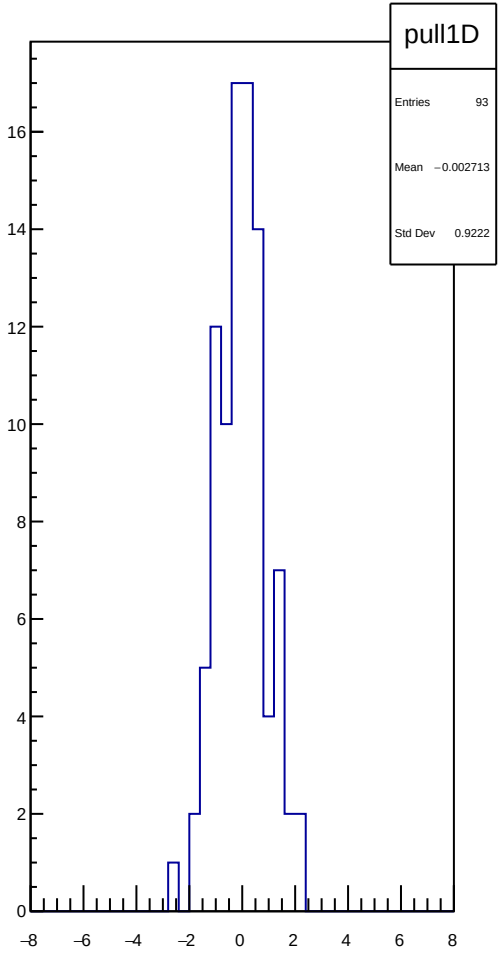

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.091e+04 / 92
p0 0.009883 ± 7.451e−06
0.013
0.012
0.011
0.01
0.009

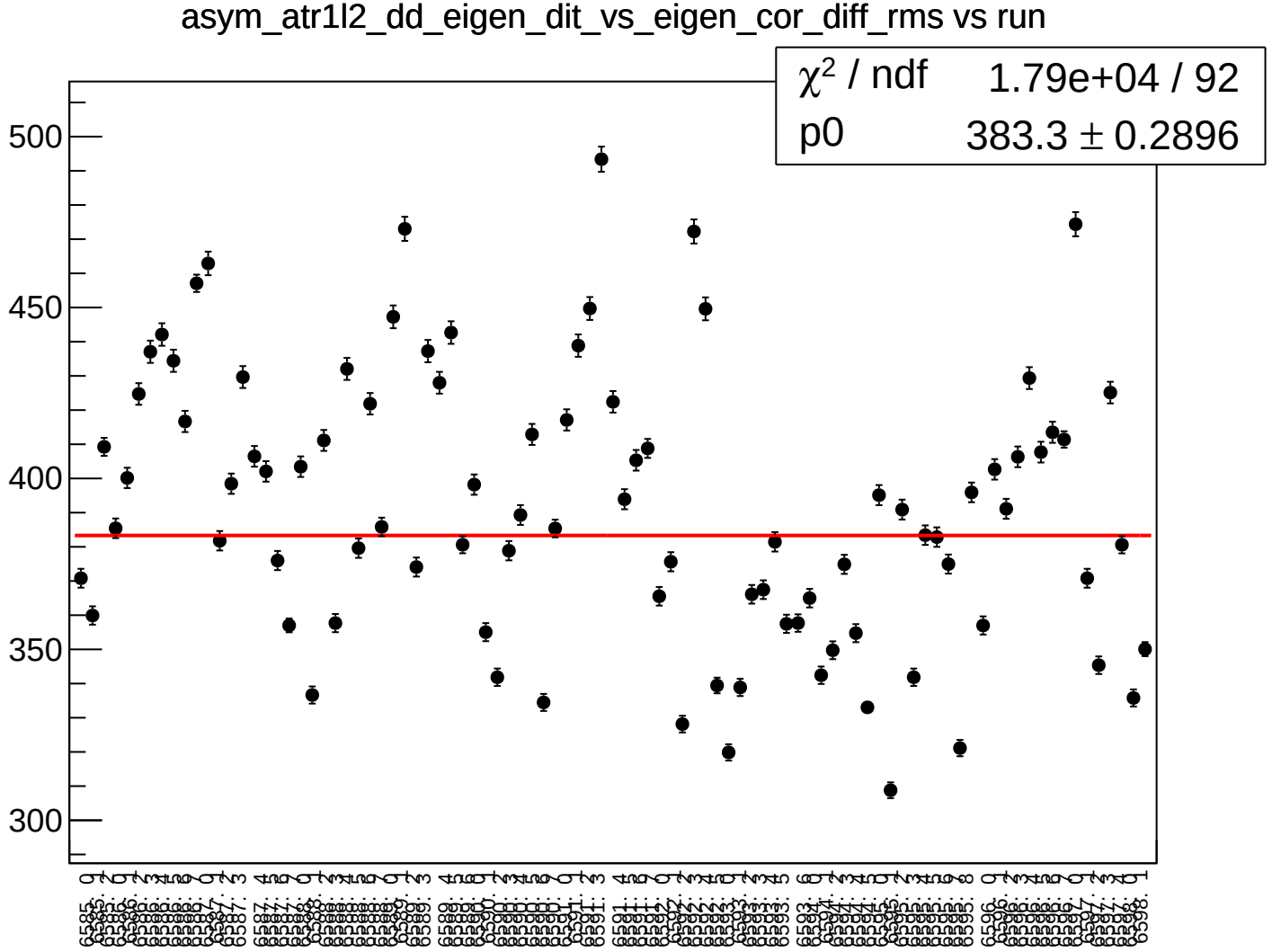

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.08 / 92
p0 0.3947 ± 0.4095
pull
Entries 93
Mean 5.457
Std Dev 217.7

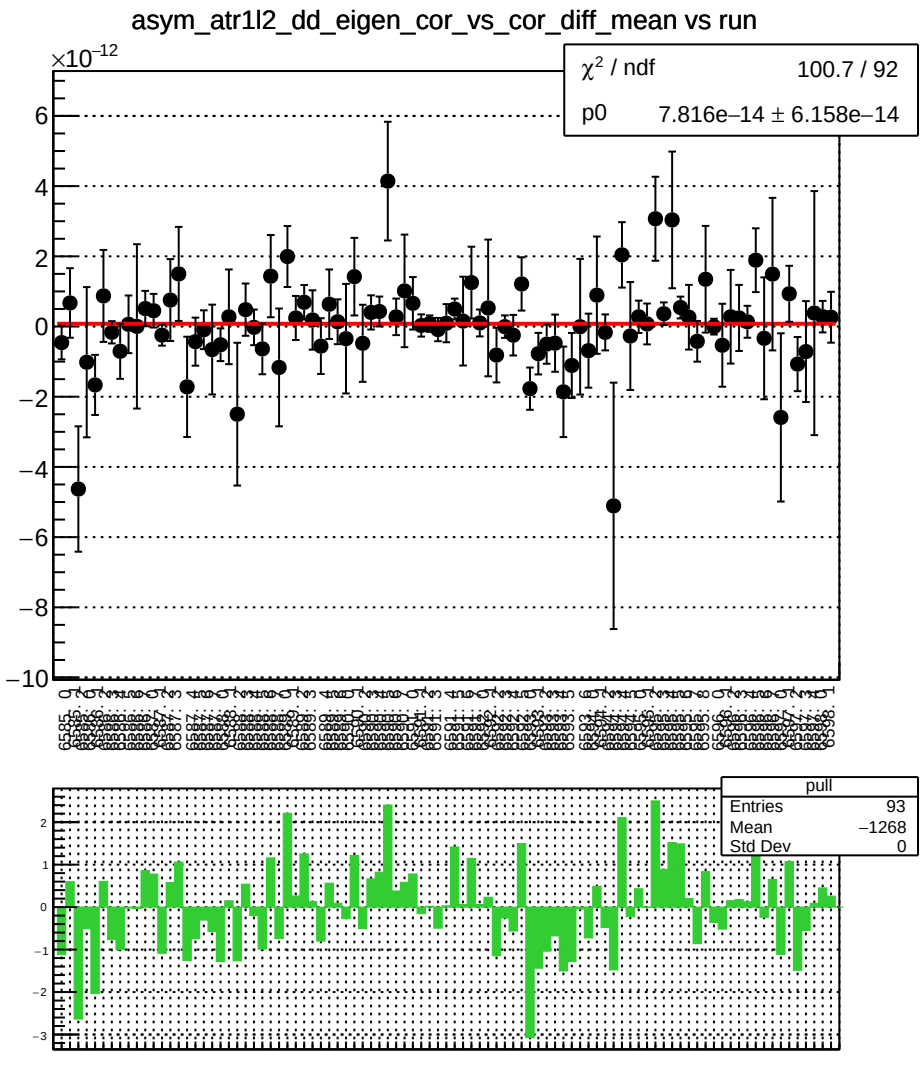

pull1D
Entries 93
Mean −0.002713
Std Dev 0.9222

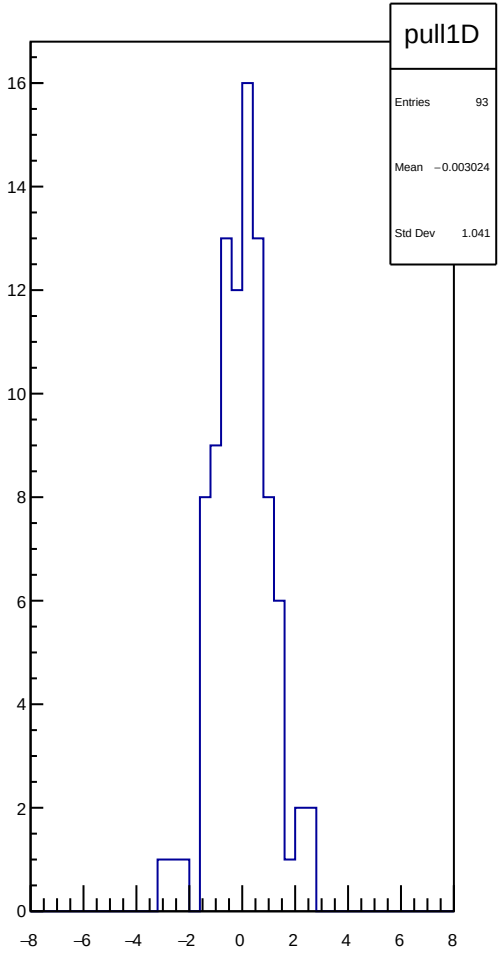

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.79e+04 / 92
p0 383.3 ± 0.2896
500
450
400
350
300

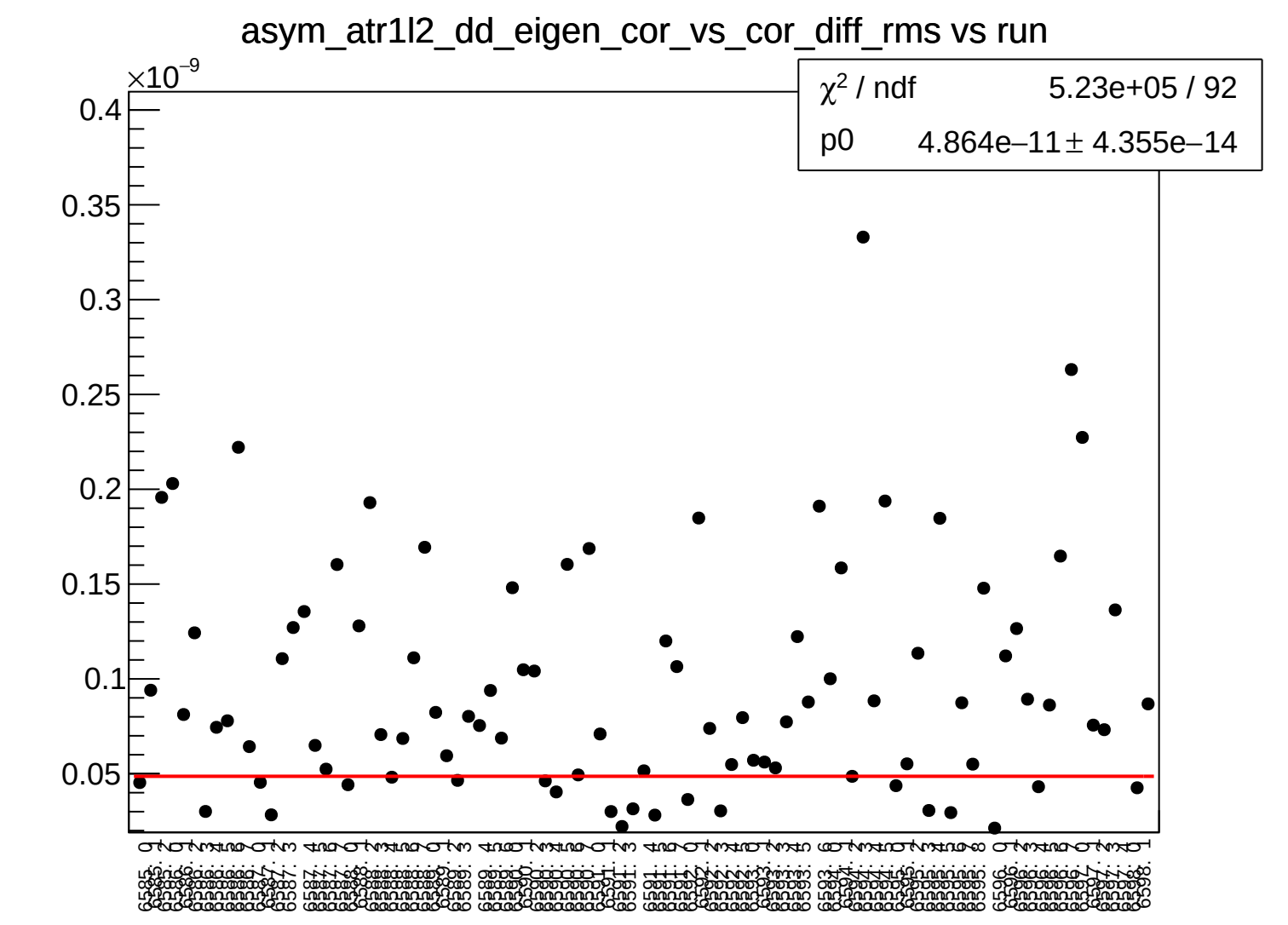

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.08 / 92
p0 0.3947 ± 0.4095
pull
Entries 93
Mean 5.457
Std Dev 217.7

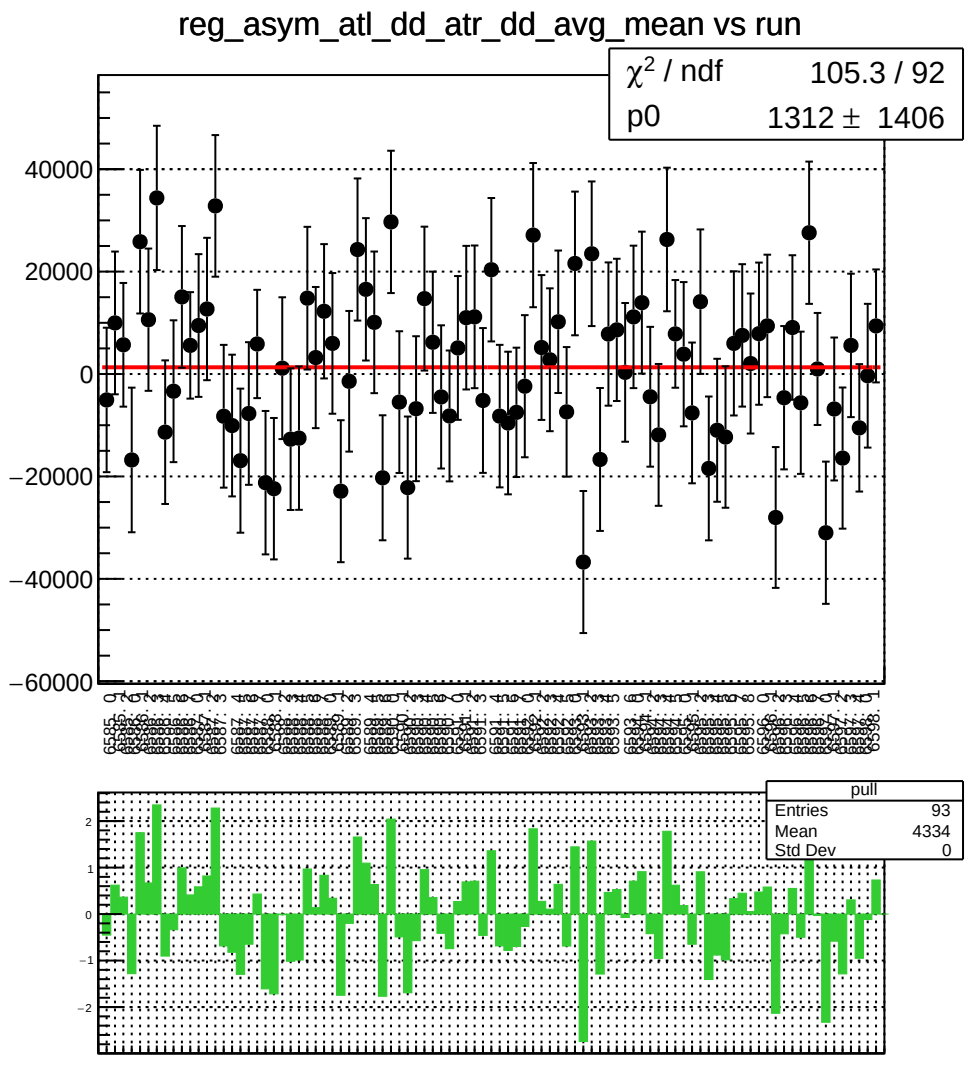

pull1D
Entries 93
Mean −0.002713
Std Dev 0.9222

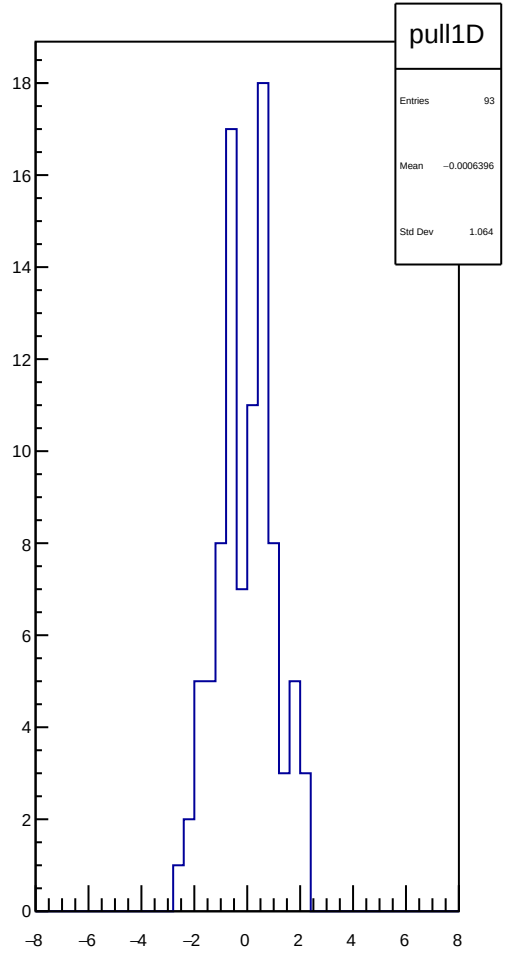

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.79e+04 / 92
p0 383.3 ± 0.2896
500
450
400
350
300

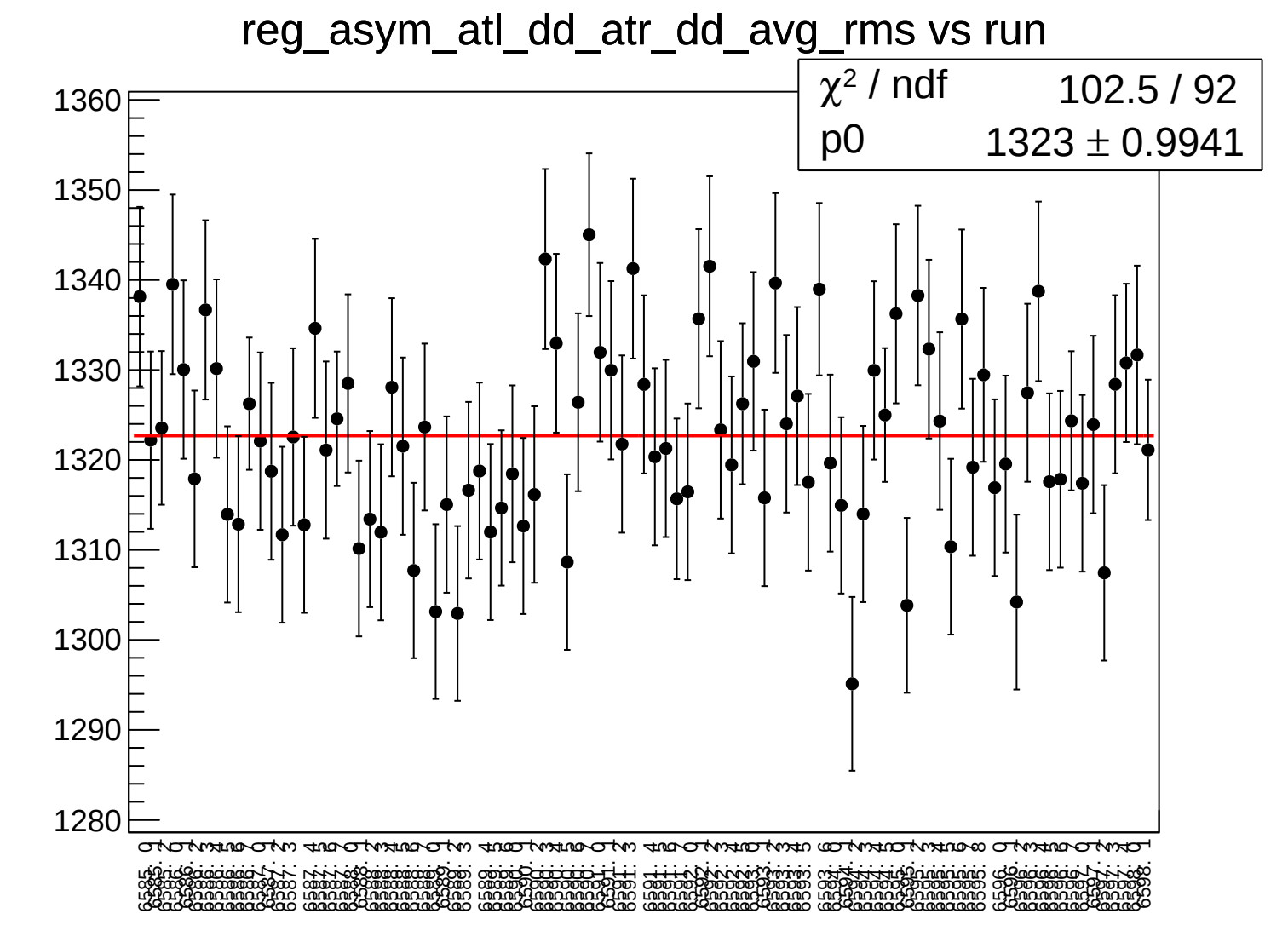

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.7 / 92
p0 7.816e−14 ± 6.158e−14
pull
Entries 93
Mean −1268
Std Dev 0

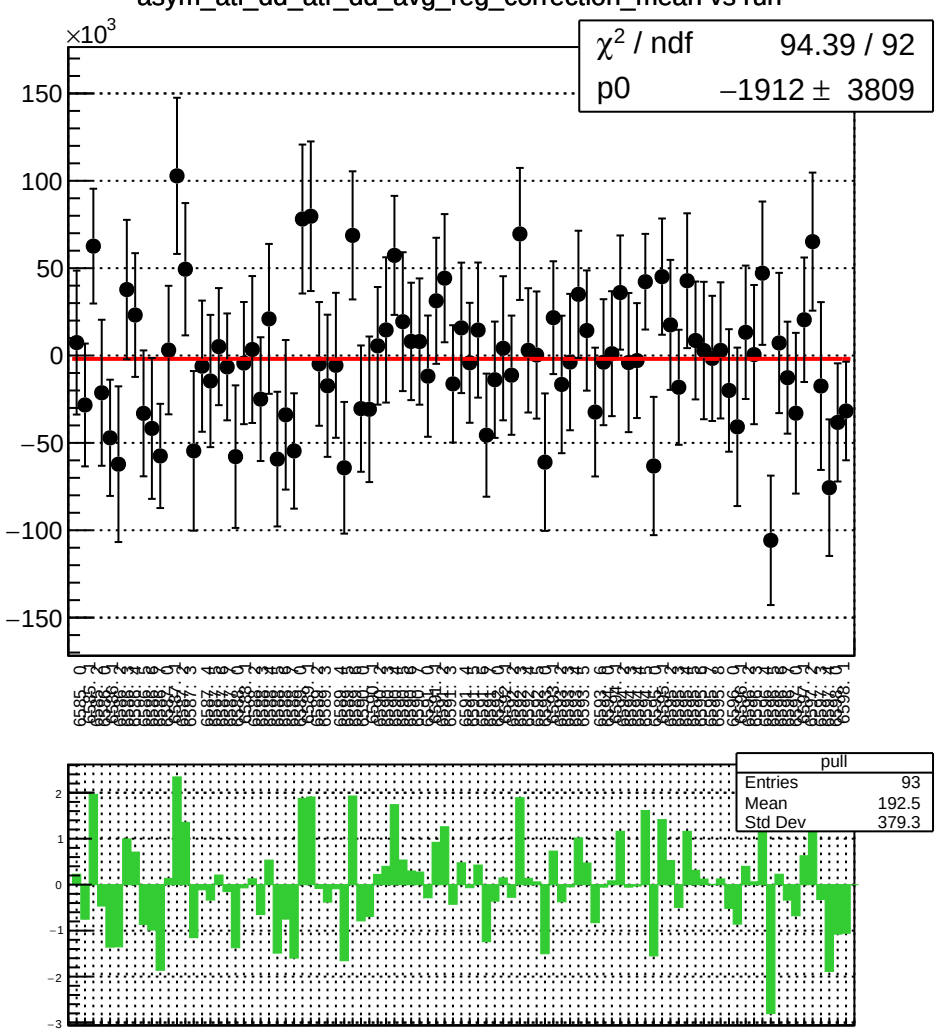

pull1D
Entries 93
Mean −0.003024
Std Dev 1.041

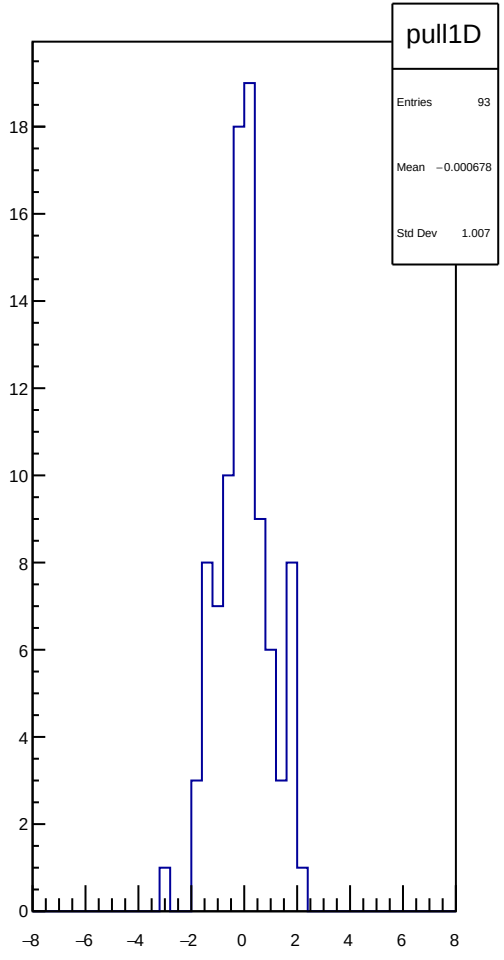

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.23e+05 / 92
p0 4.864e−11 ± 4.355e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

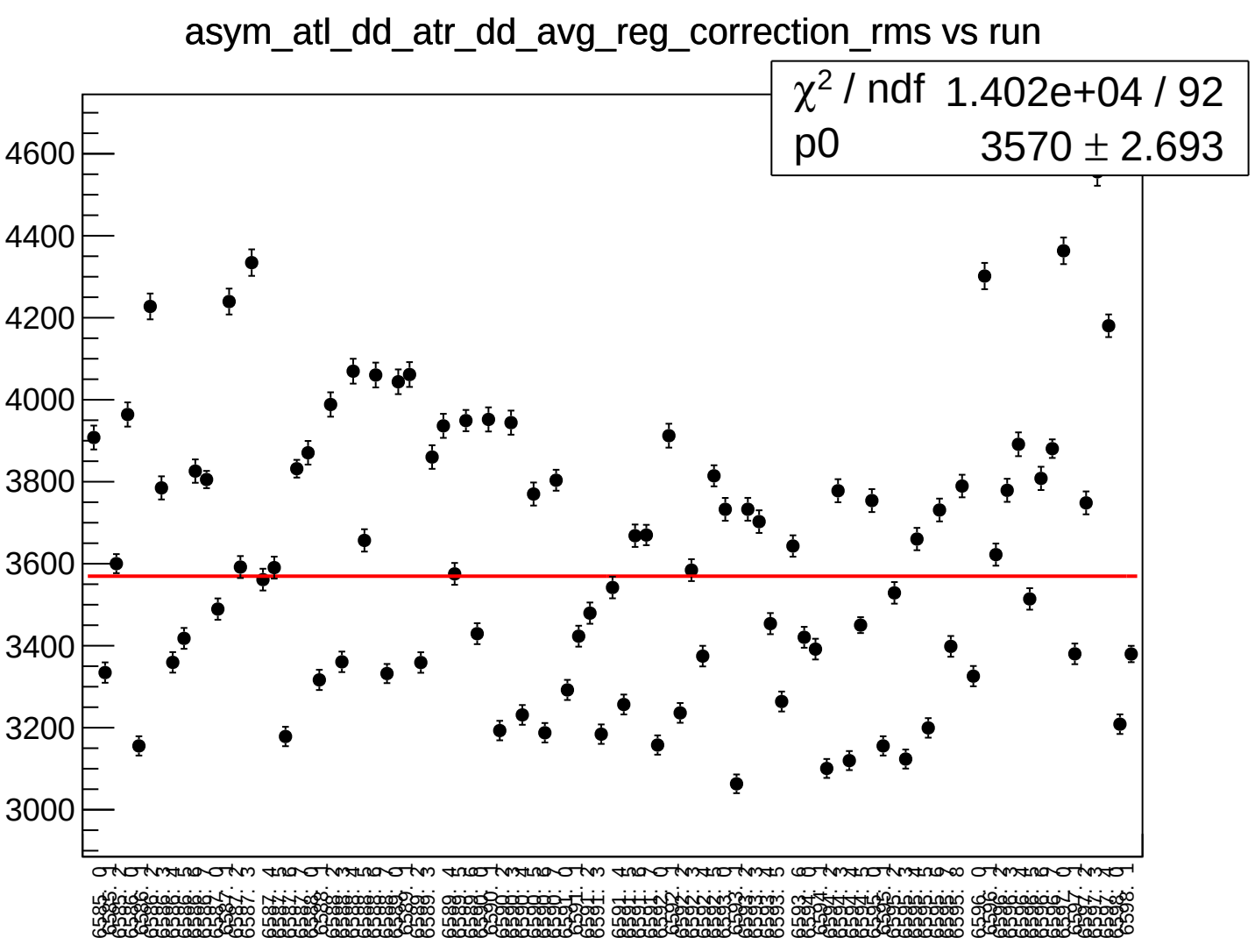

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 105.3 / 92
p0 1312 ± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 4334
Std Dev 0
2
1
0
−1
−2

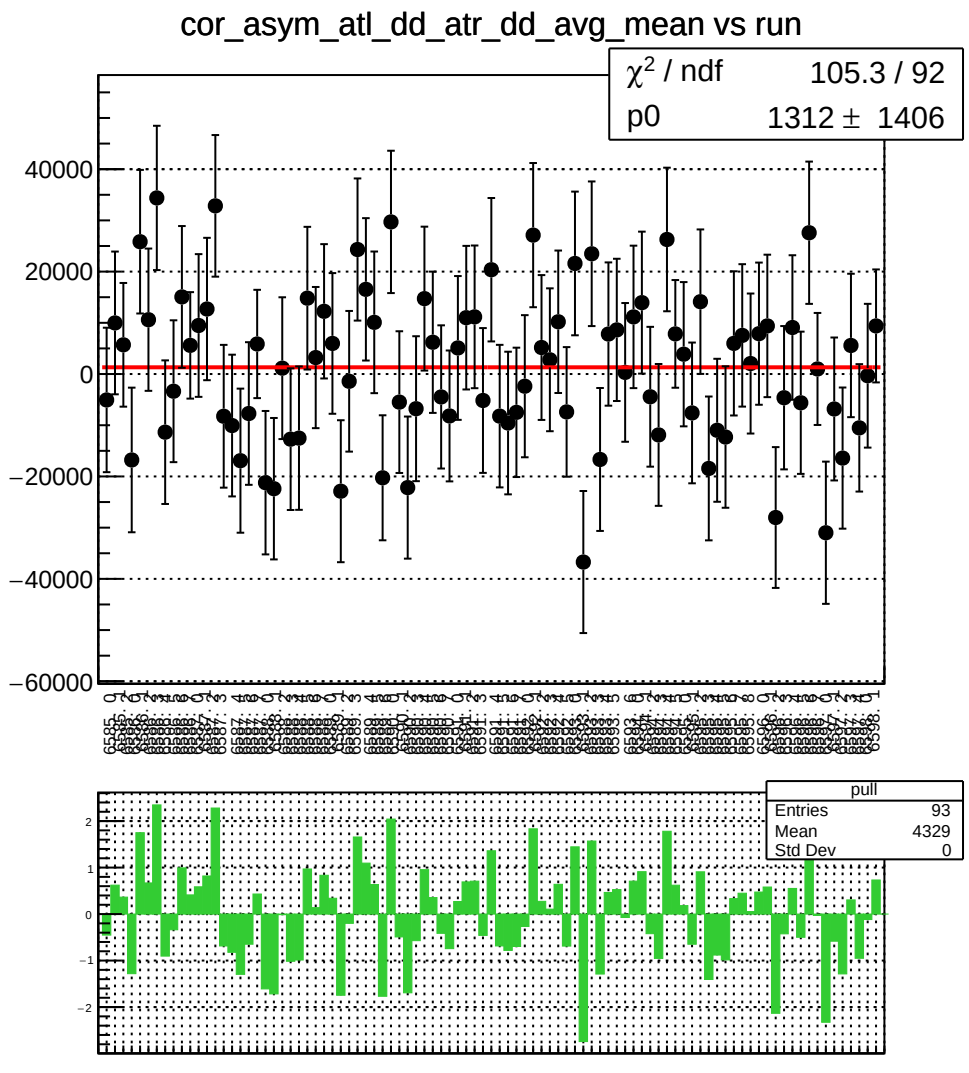

pull1D
Entries 93
Mean −0.0006396
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

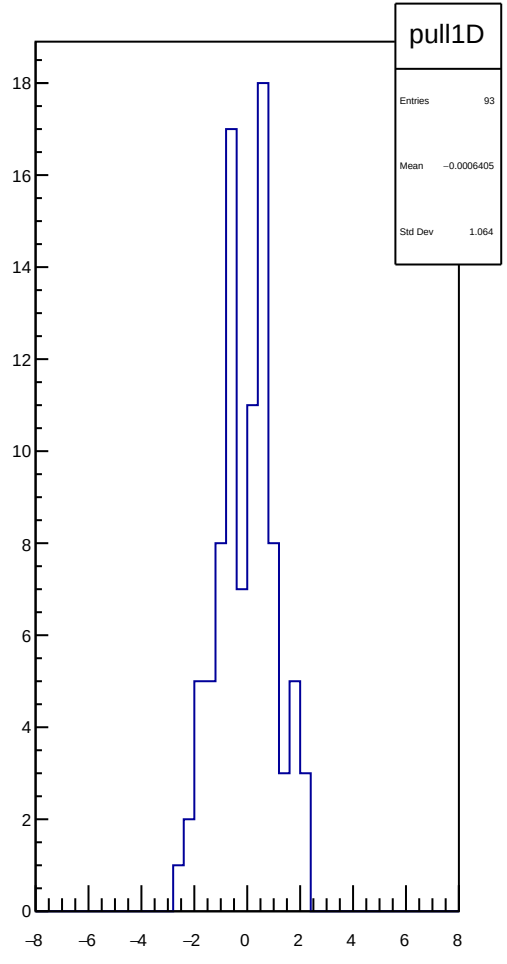

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 102.5 / 92
p0 1323 ± 0.9941
1360
1350
1340
1330
1320
1310
1300
1290
1280

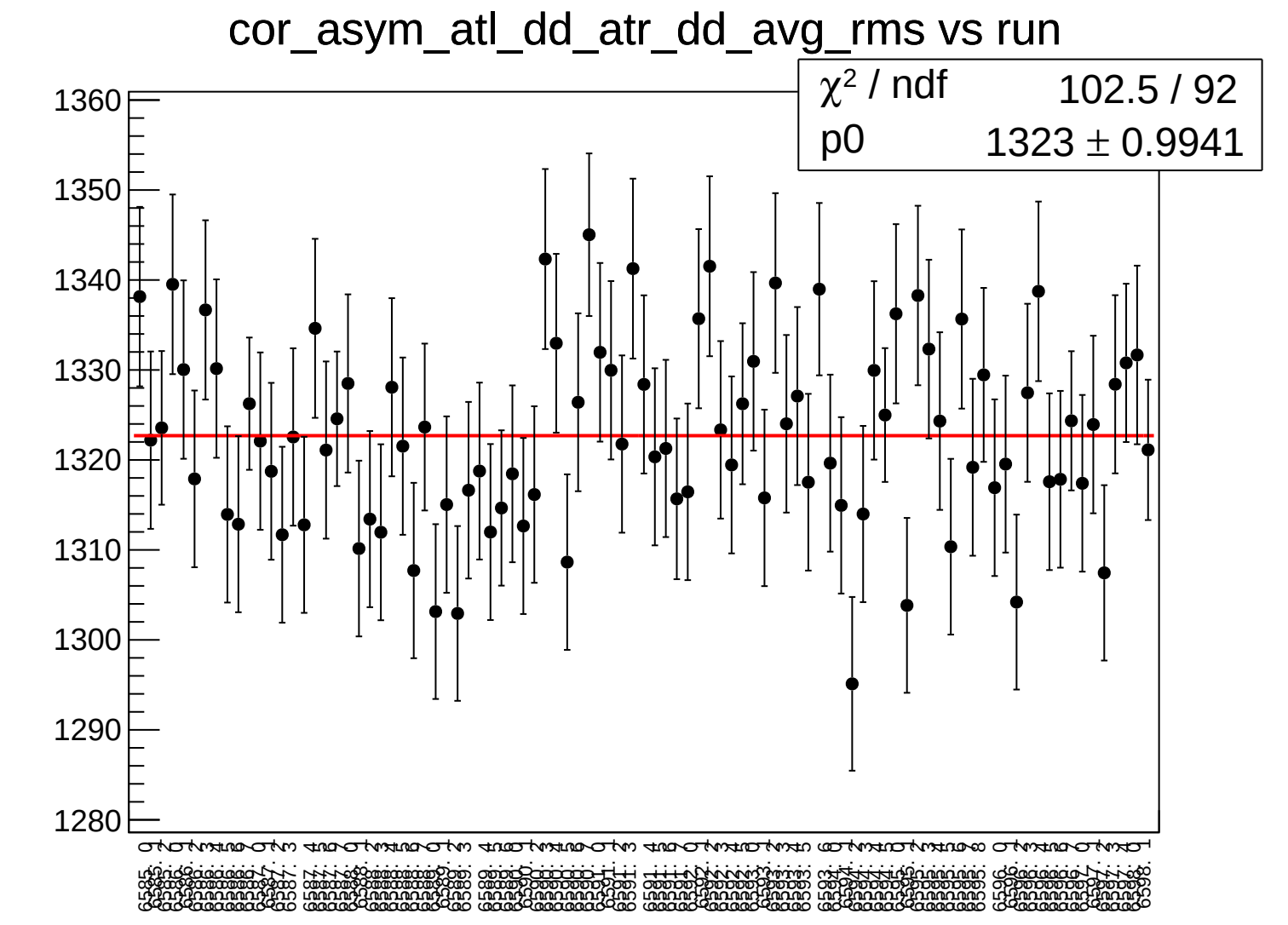

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.39 / 92
p0 −1912 ± 3809
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 192.5
Std Dev 379.3
2
1
0
−1
−2
−3

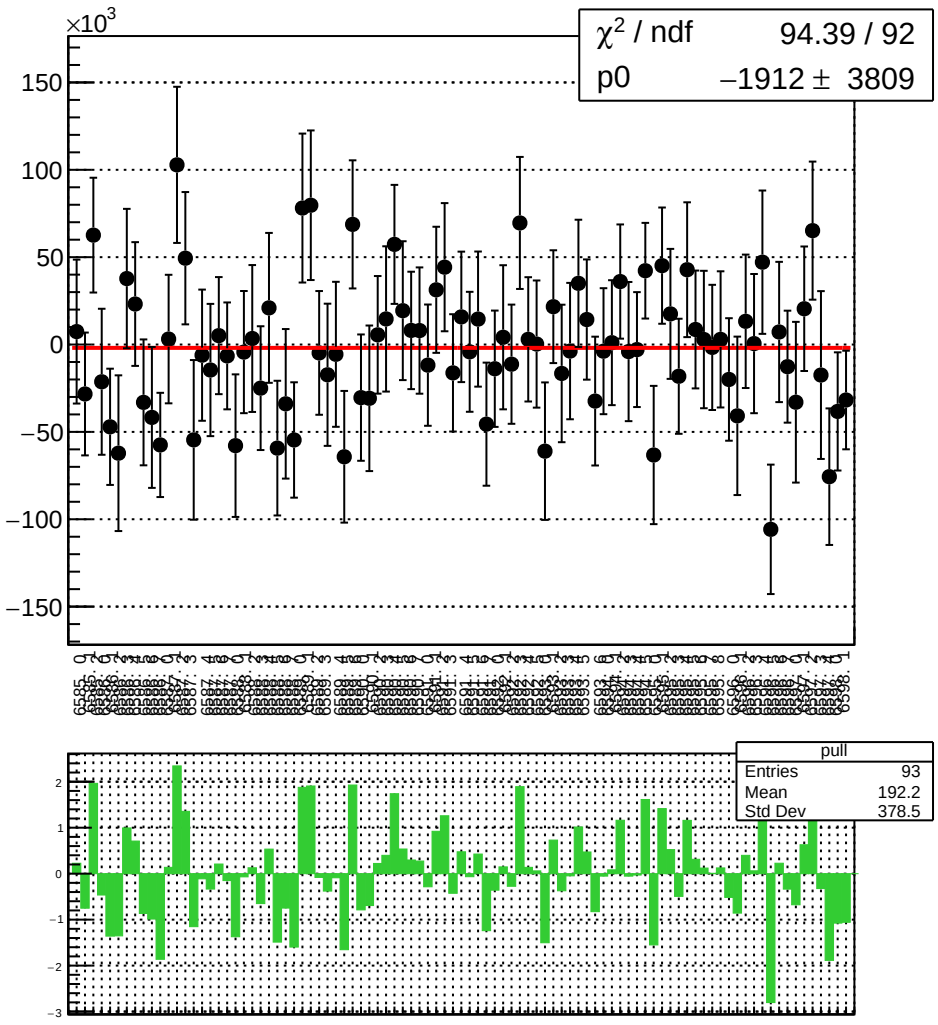

pull1D
Entries 93
Mean −0.000678
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

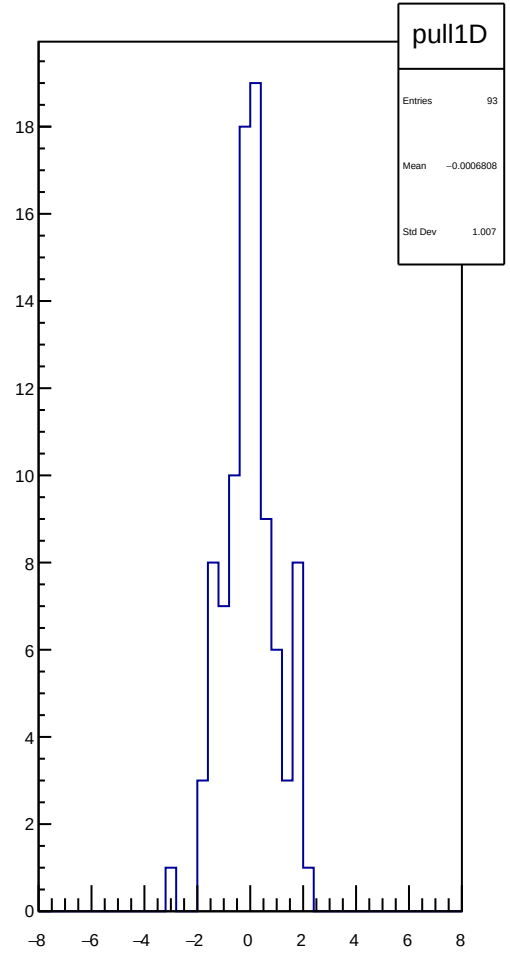

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.402e+04 / 92
p0 3570 ± 2.693
4600
4400
4200
4000
3800
3600
3400
3200
3000

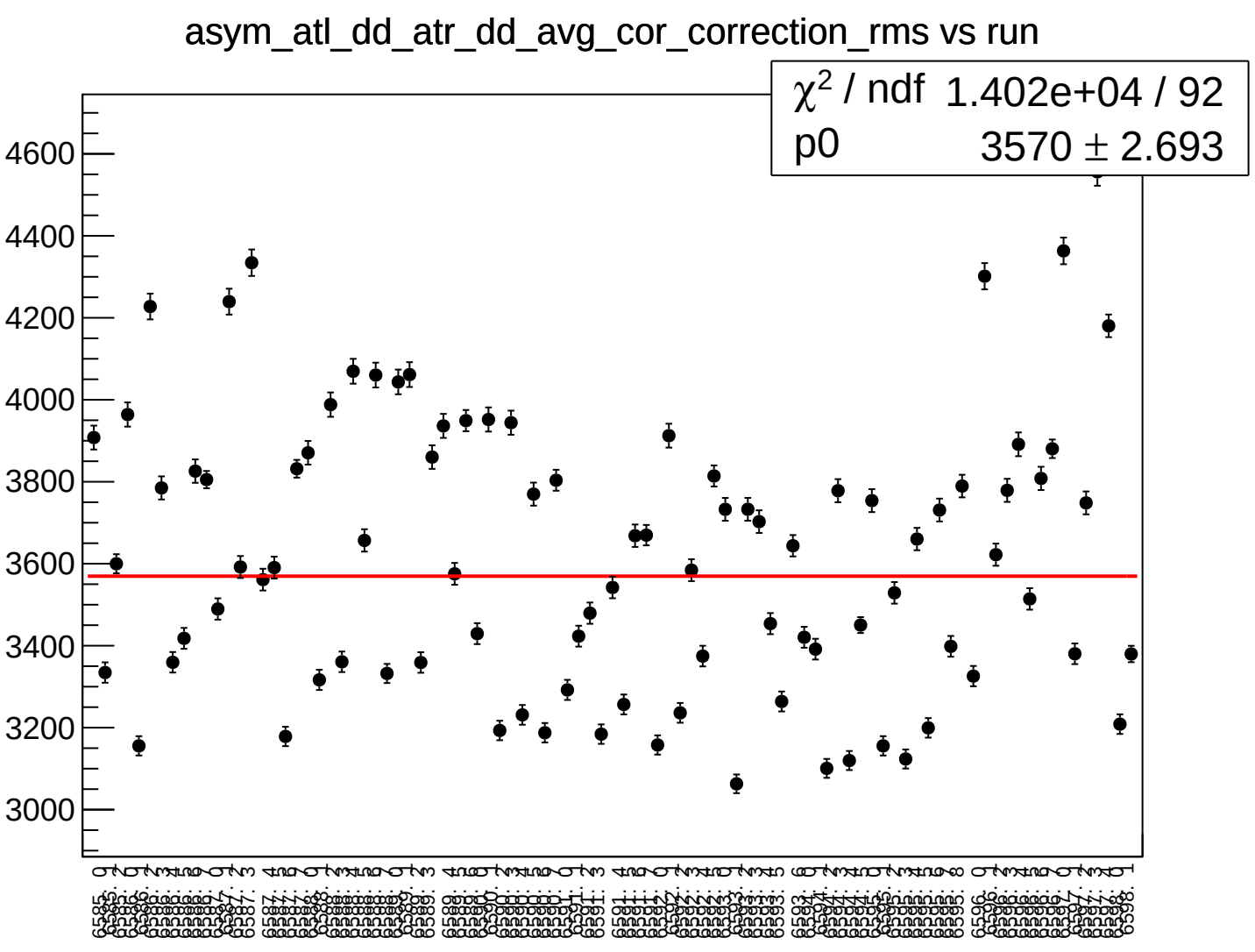

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 105.3 / 92
p0 1312 ± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 4329
Std Dev 0
2
1
0
−1
−2

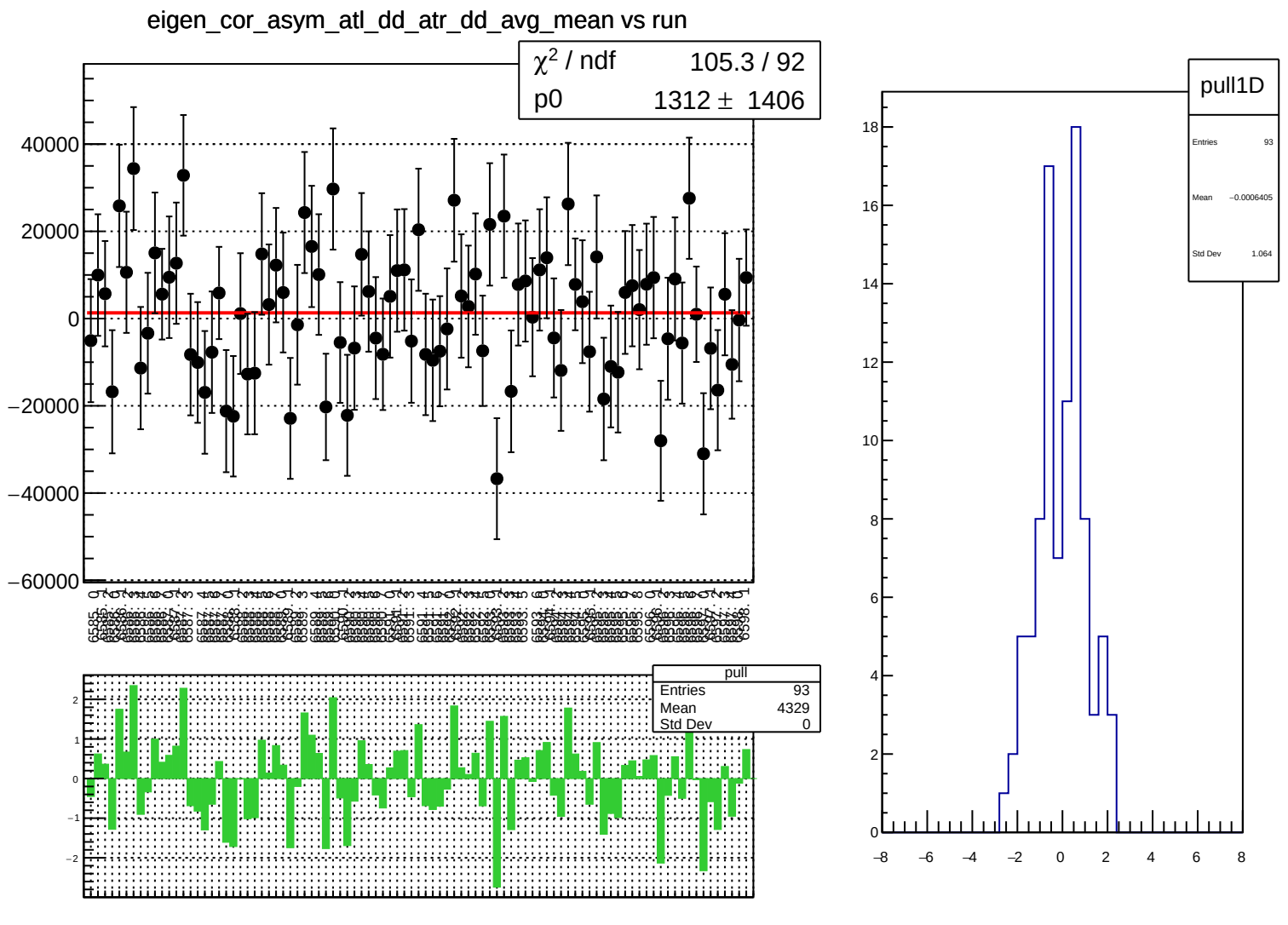

pull1D
Entries 93
Mean −0.0006405
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

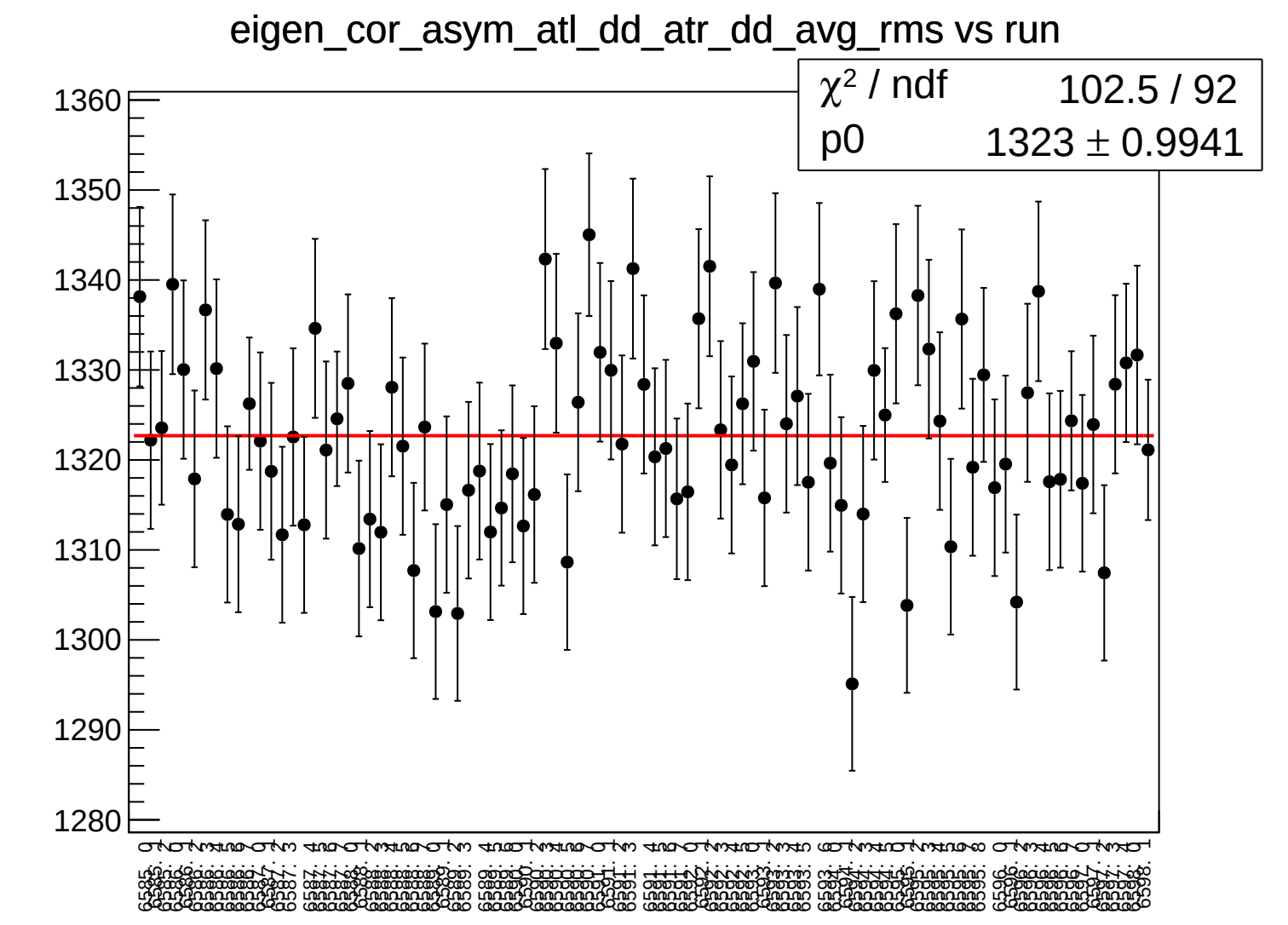

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 102.5 / 92
p0 1323 ± 0.9941
1360
1350
1340
1330
1320
1310
1300
1290
1280

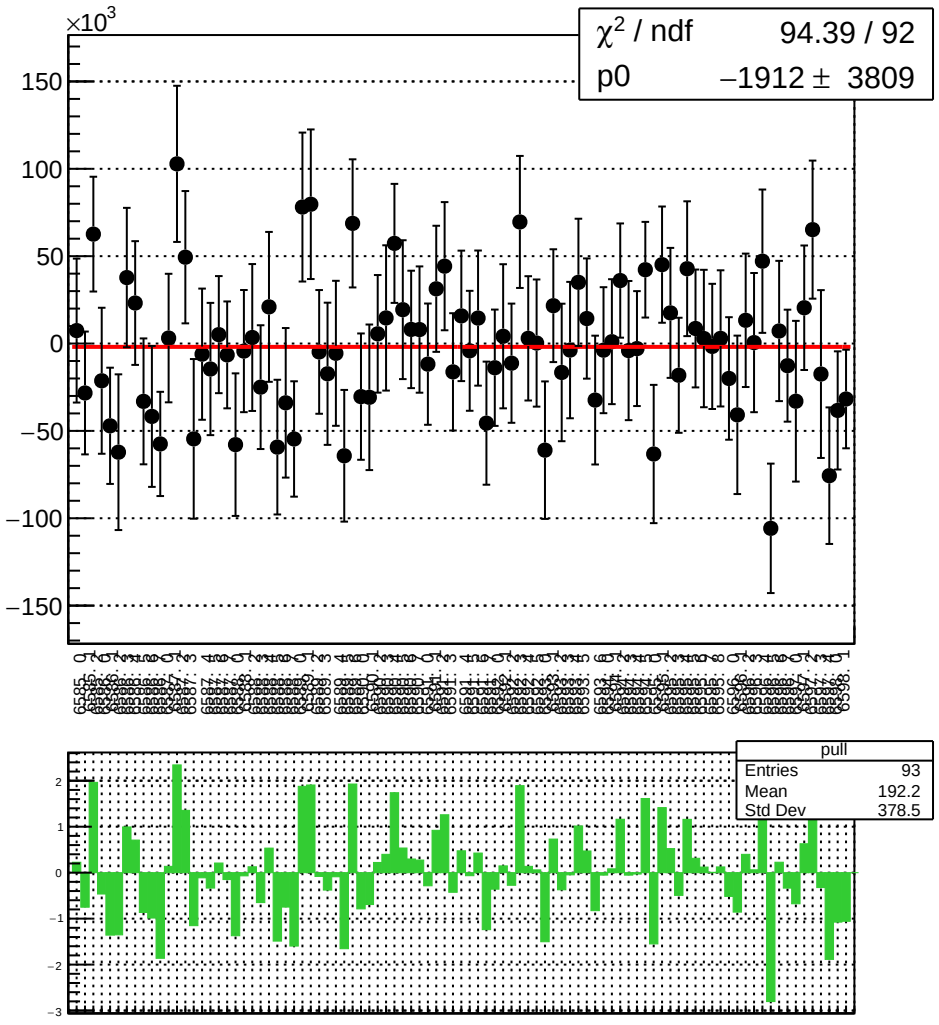

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.39 / 92
p0 −1912 ± 3809
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 192.2
Std Dev 378.5
2
1
0
−1
−2
−3

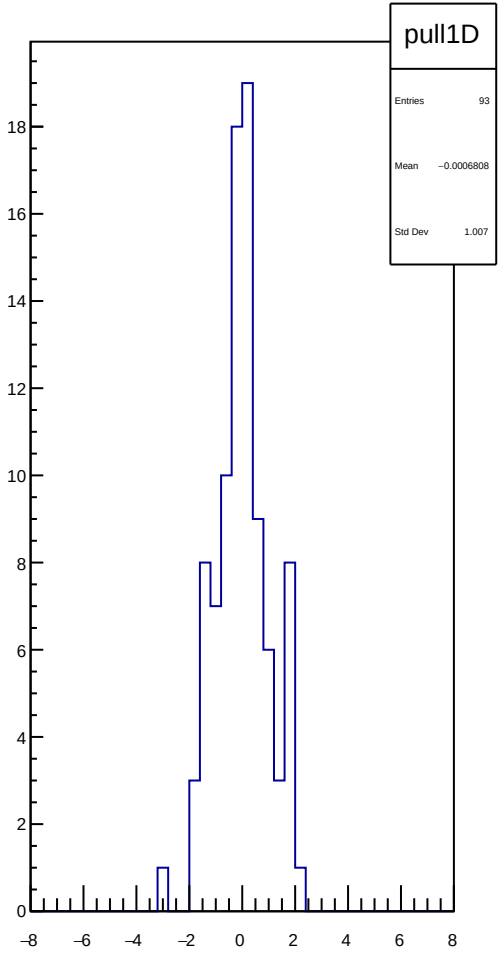

pull1D
Entries 93
Mean −0.0006808
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.402e+04 / 92
p0 3570 ± 2.693
4600
4400
4200
4000
3800
3600
3400
3200
3000


eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 105.3 / 92
p0 1312 ± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 4329
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0006405
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 102.5 / 92
p0 1323 ± 0.9941
1360
1350
1340
1330
1320
1310
1300
1290
1280


asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.39 / 92
p0 −1912 ± 3809
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 192.2
Std Dev 378.5
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.0006808
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
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−4
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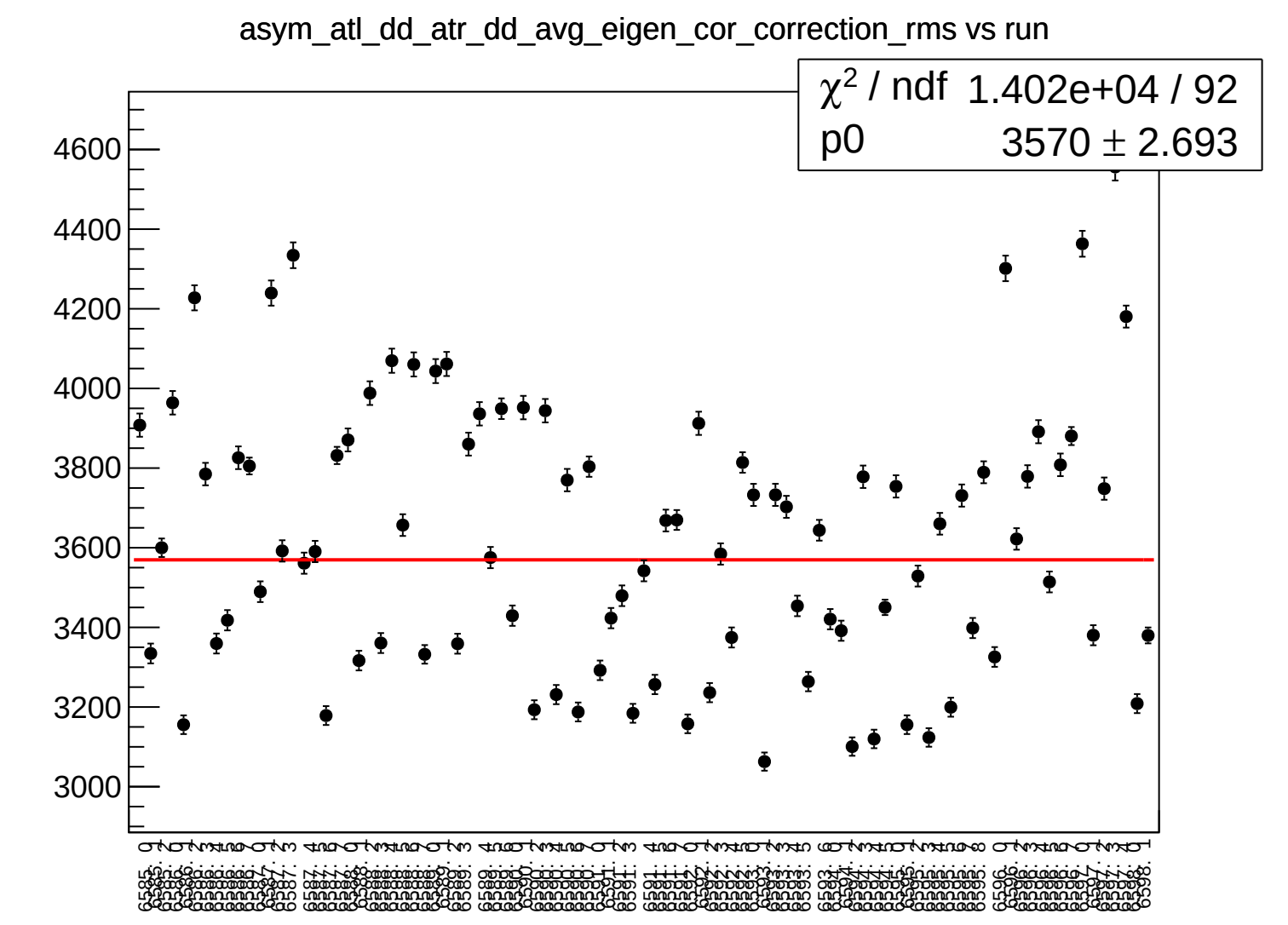
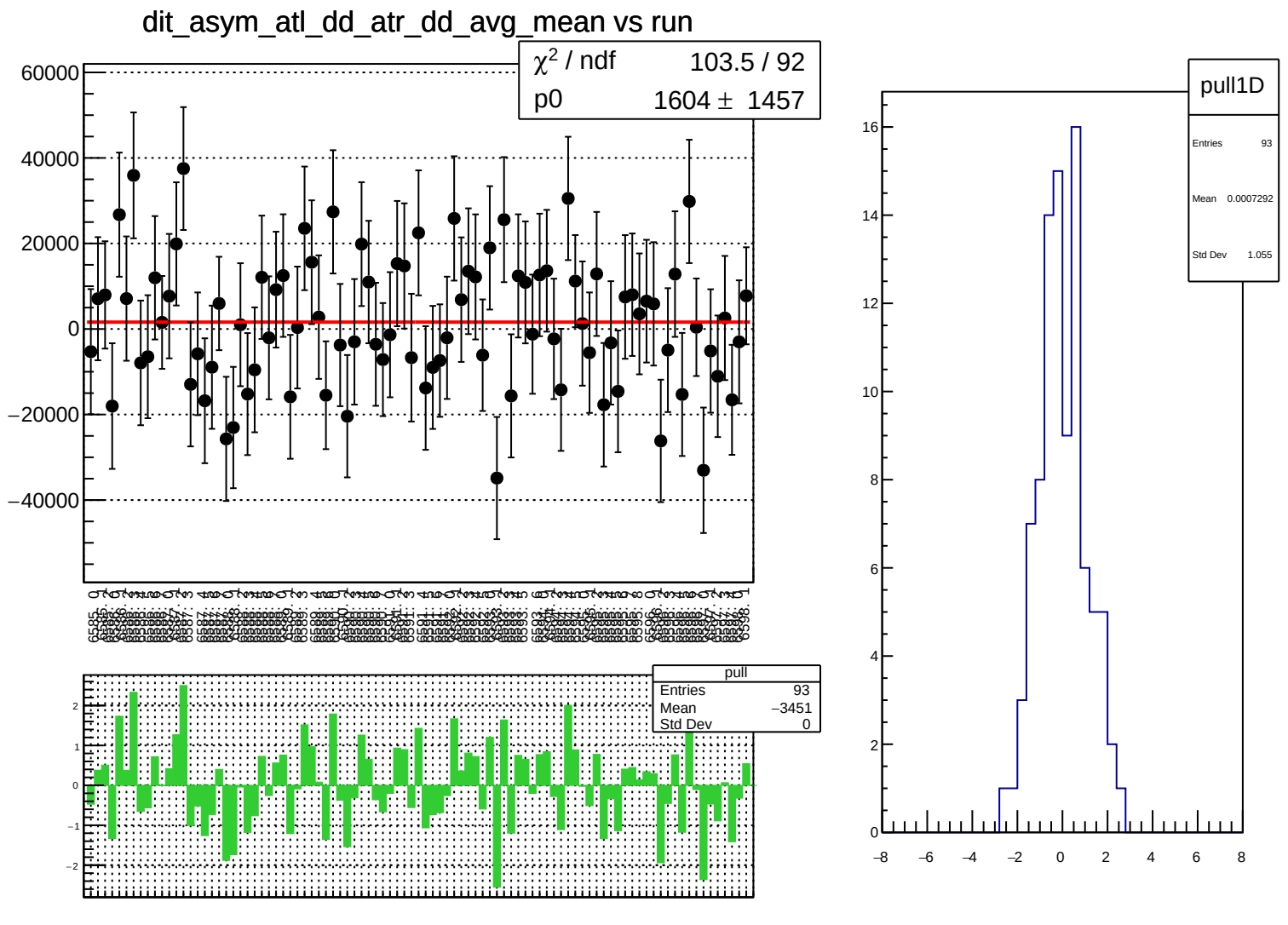
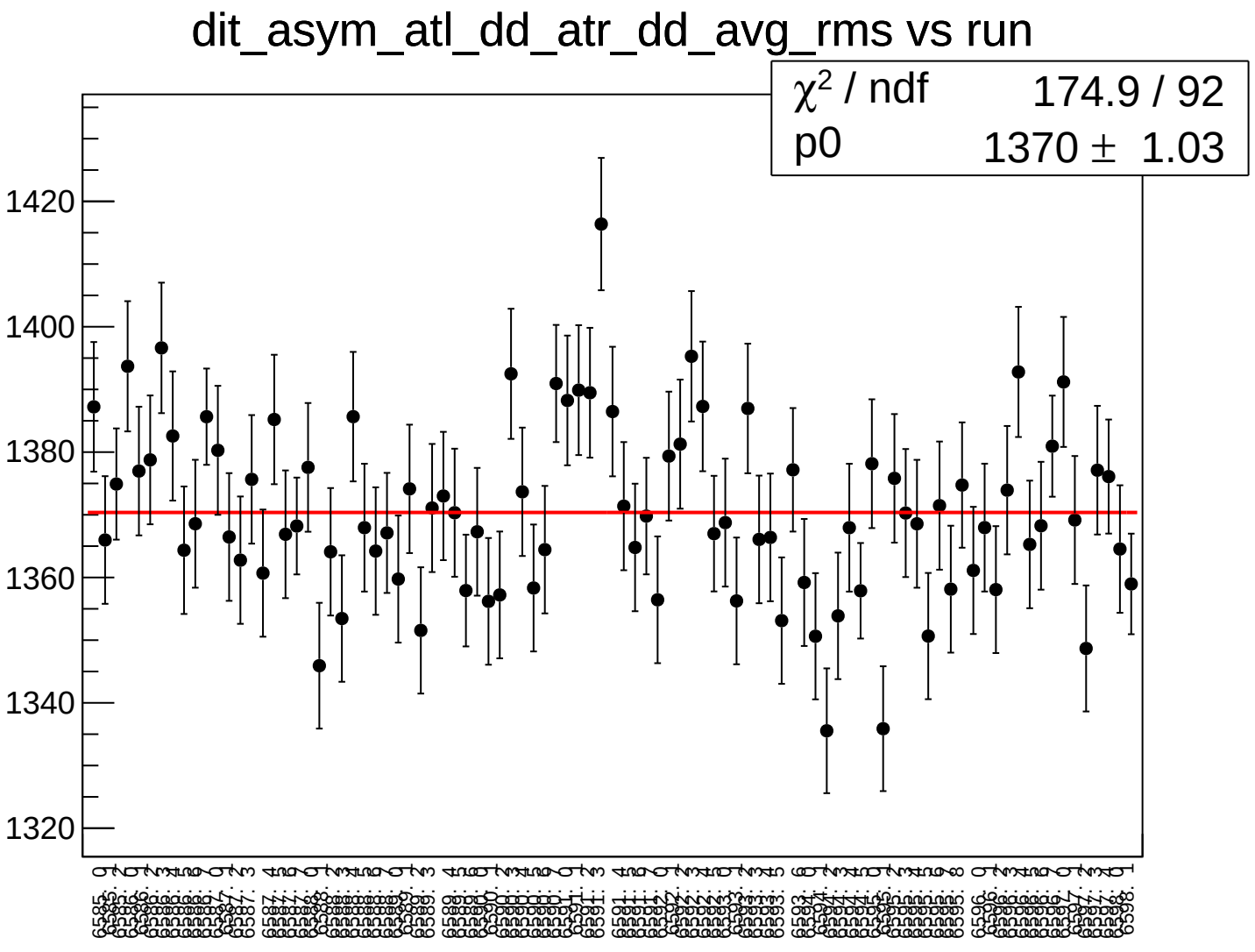
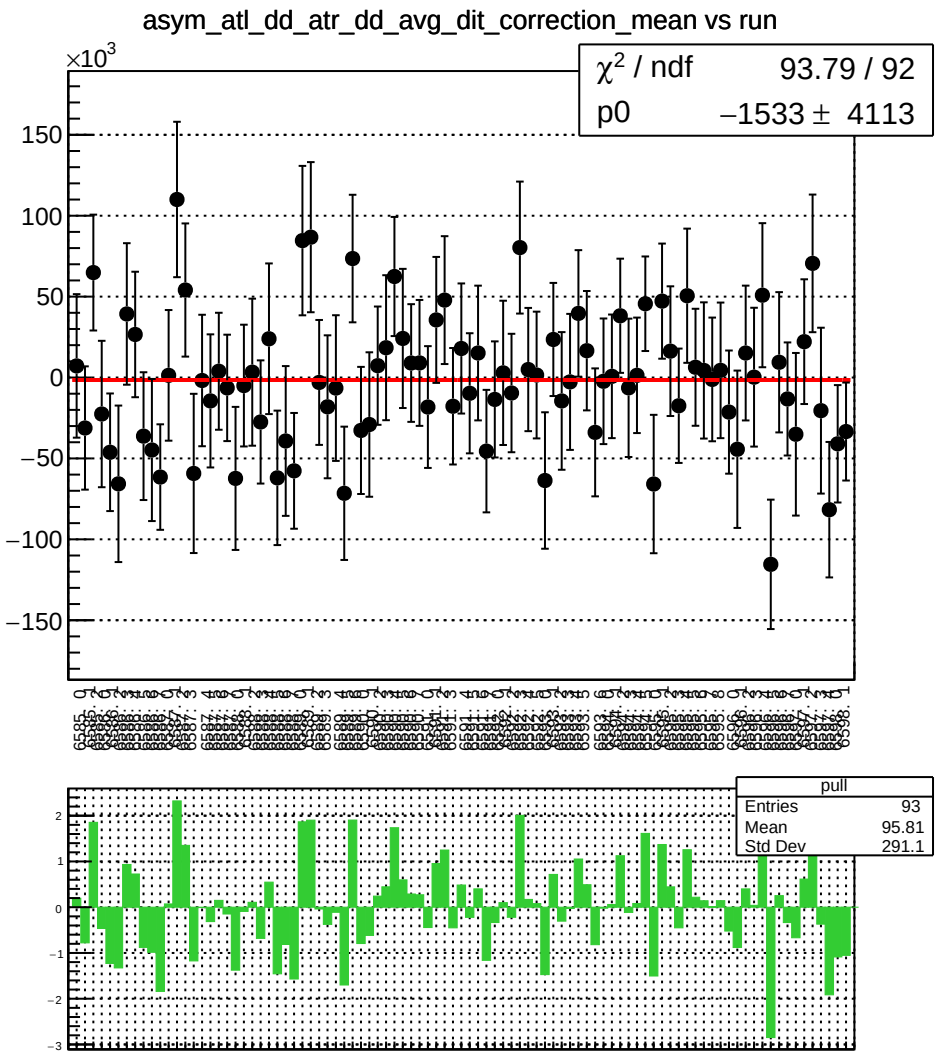
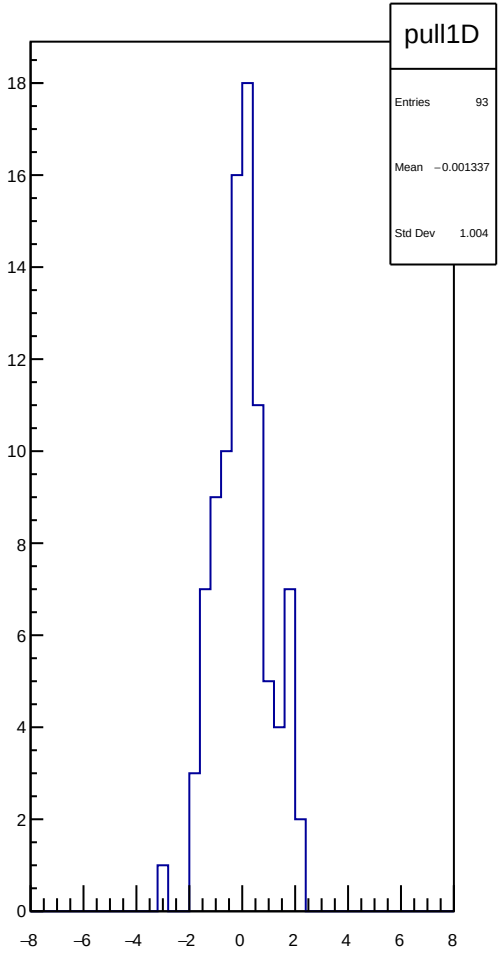
2
4
6
8

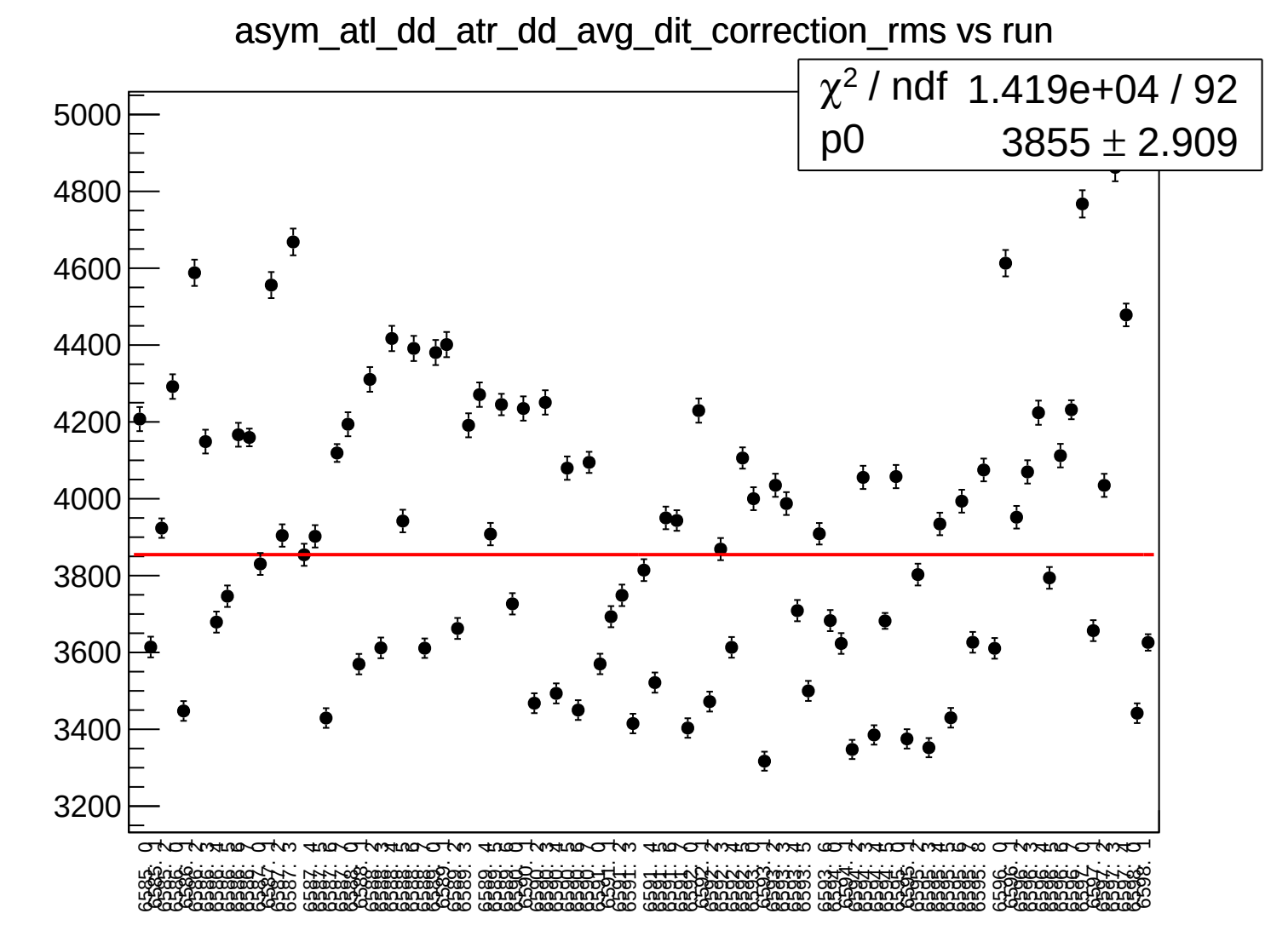

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.402e+04 / 92
p0 3570 ± 2.693
4600
4400
4200
4000
3800
3600
3400
3200
3000

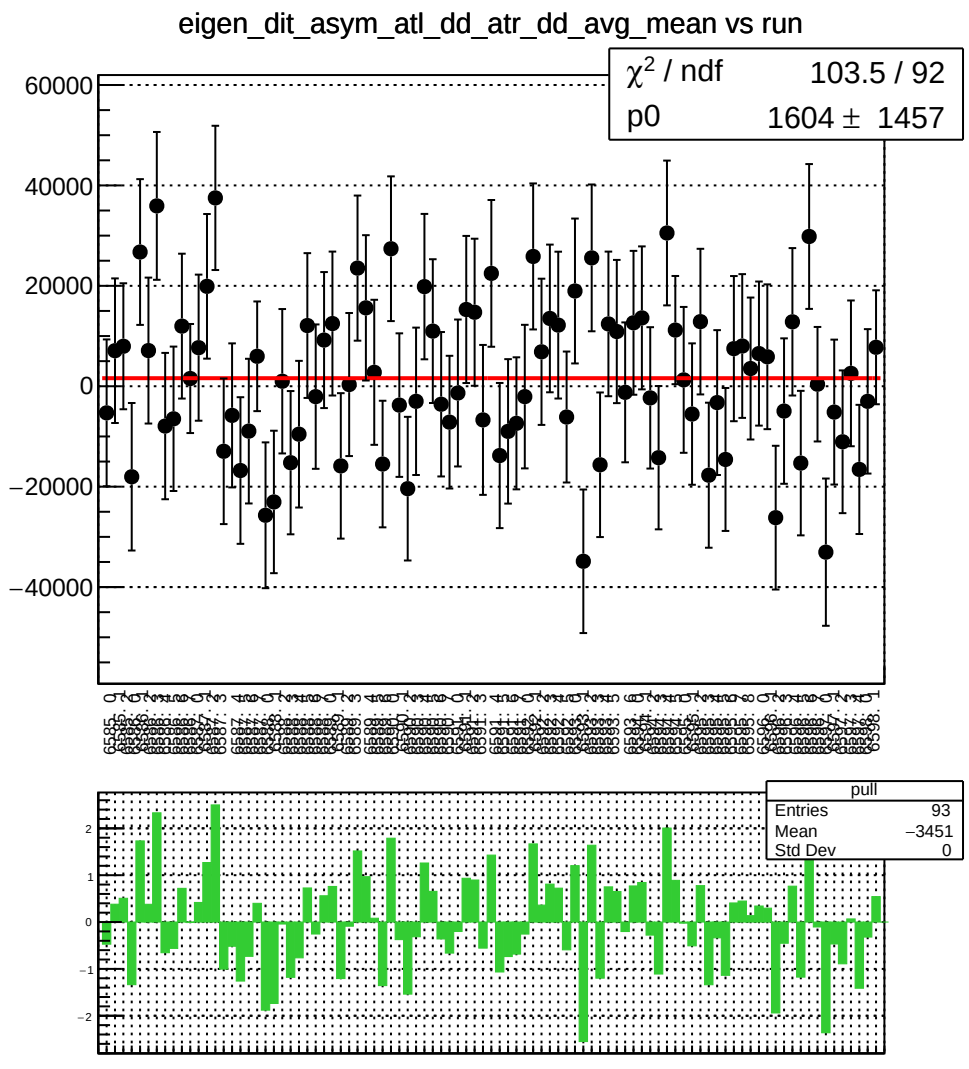

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 103.5 / 92
p0 1604 ± 1457
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −3451
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0007292
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

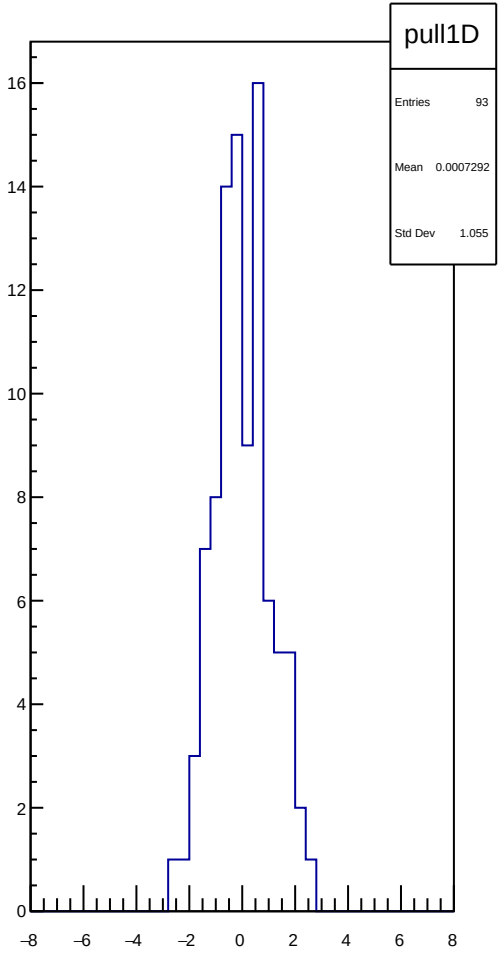

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 174.9 / 92
p0 1370 ± 1.03
1420
1400
1380
1360
1340
1320

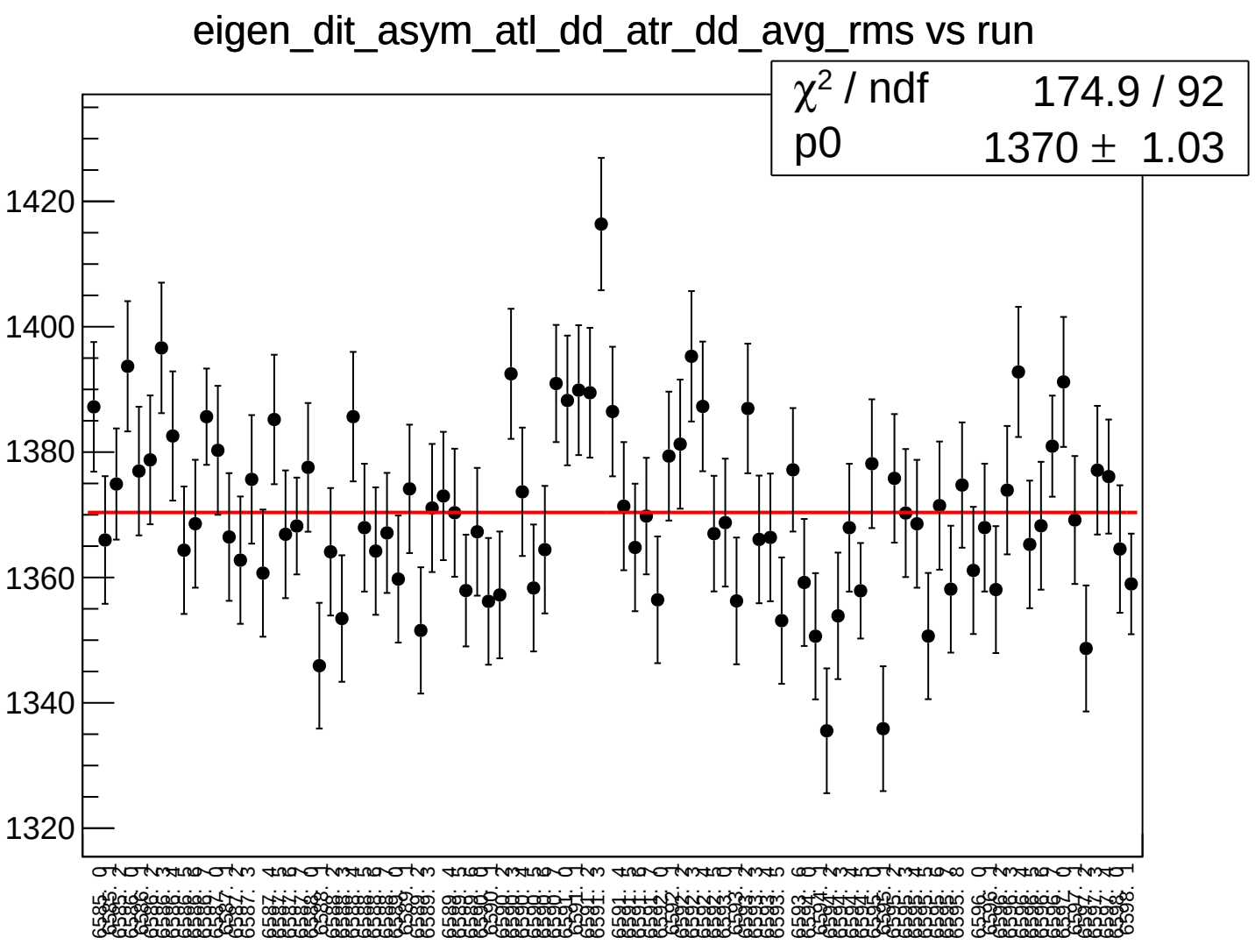

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 93.79 / 92
p0 −1533 ± 4113
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 95.81
Std Dev 291.1
2
1
0
−1
−2
−3

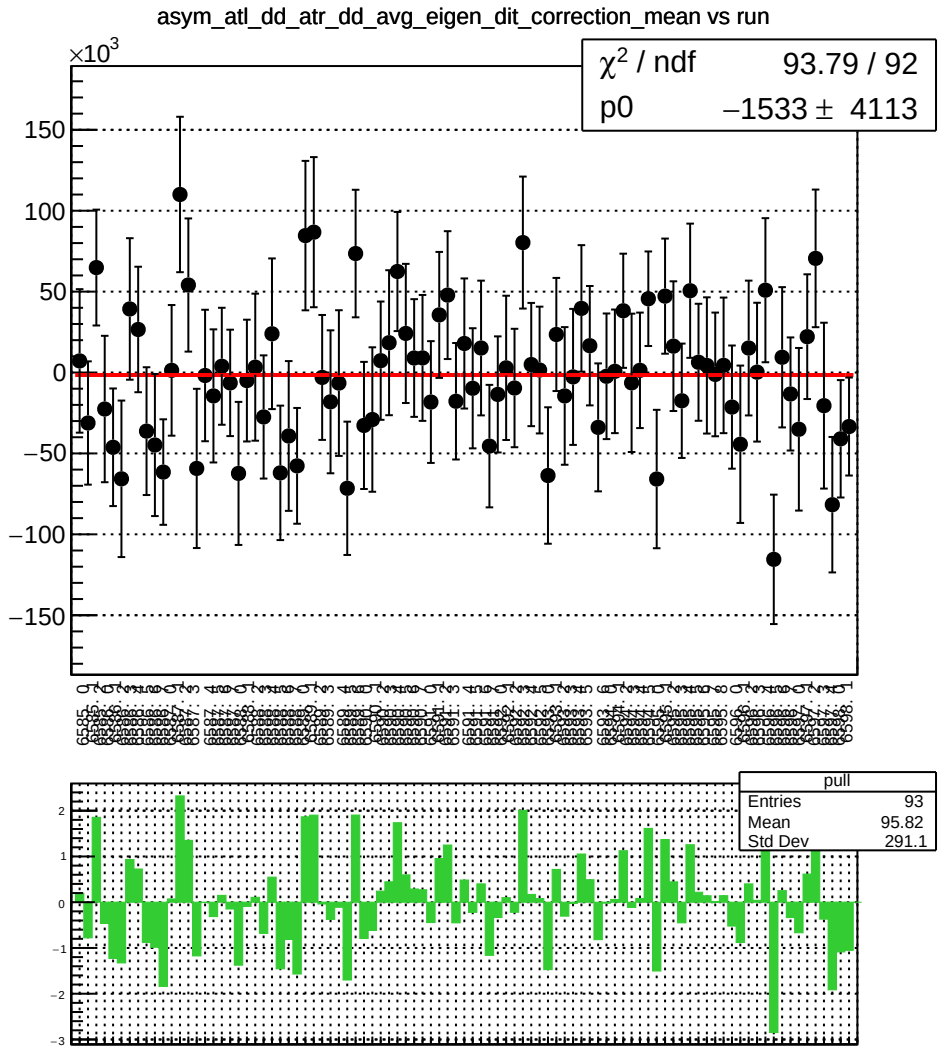

pull1D
Entries 93
Mean −0.001337
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

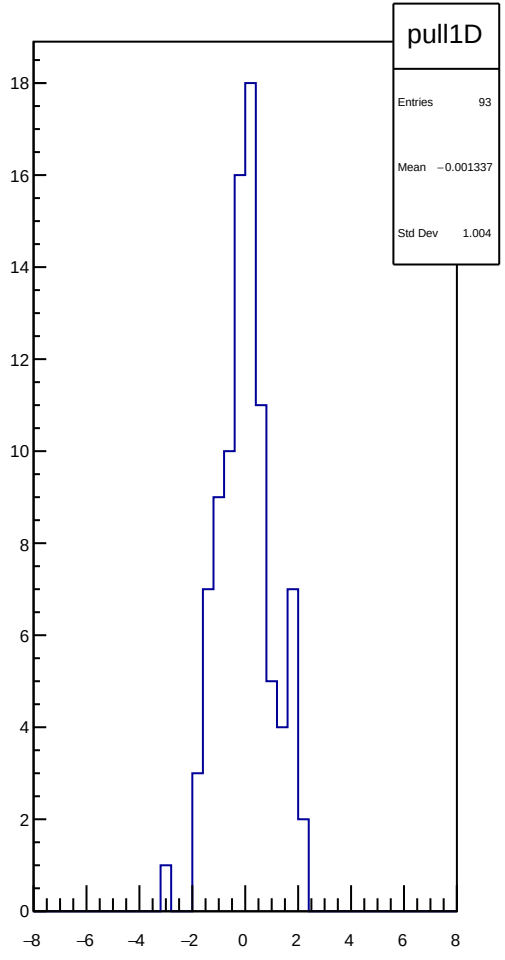

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.419e+04 / 92
p0 3855 ± 2.909
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

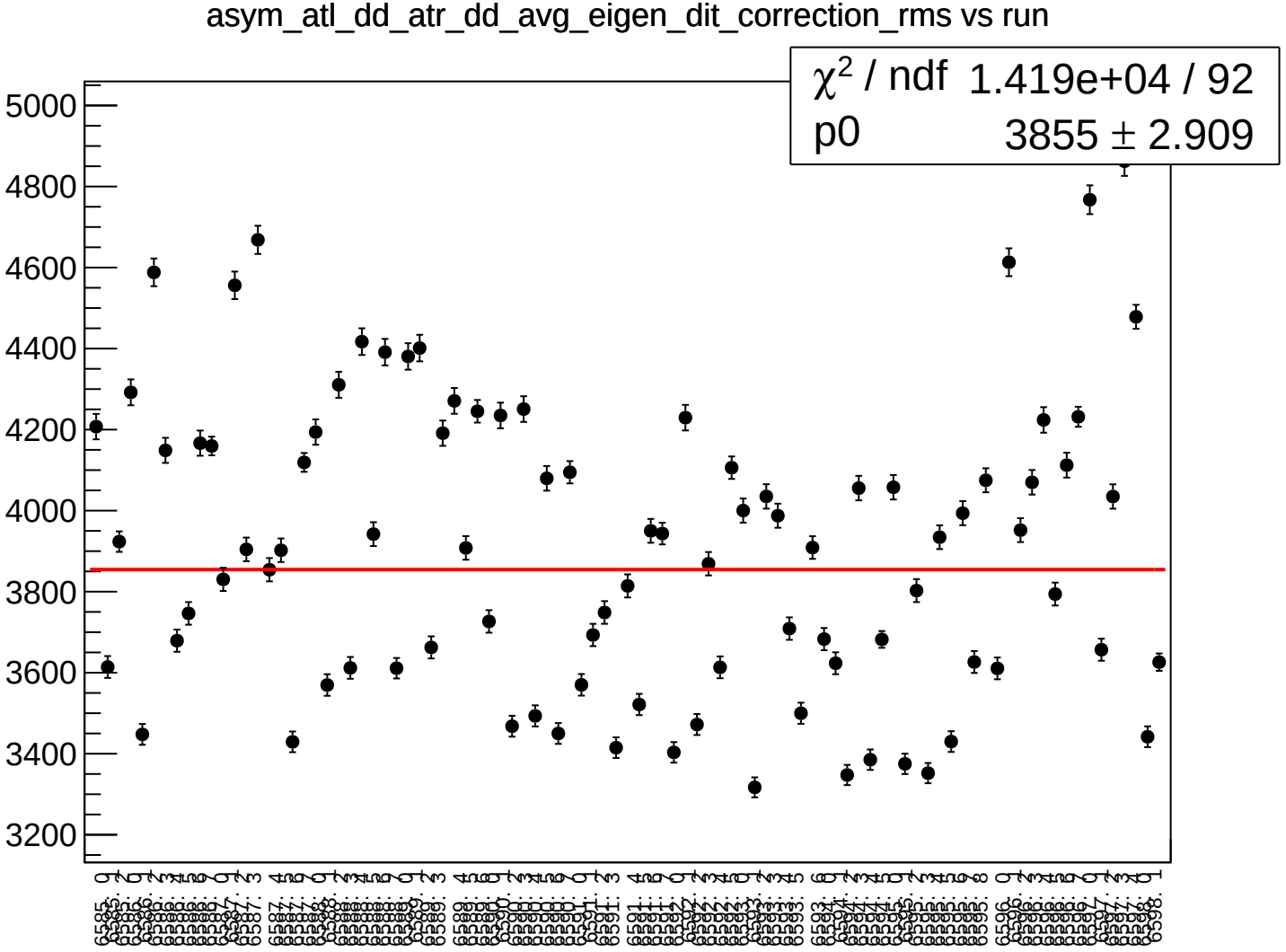

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 103.5 / 92
p0 1604 ± 1457
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −3451
Std Dev 0
2
1
0
−1
−2

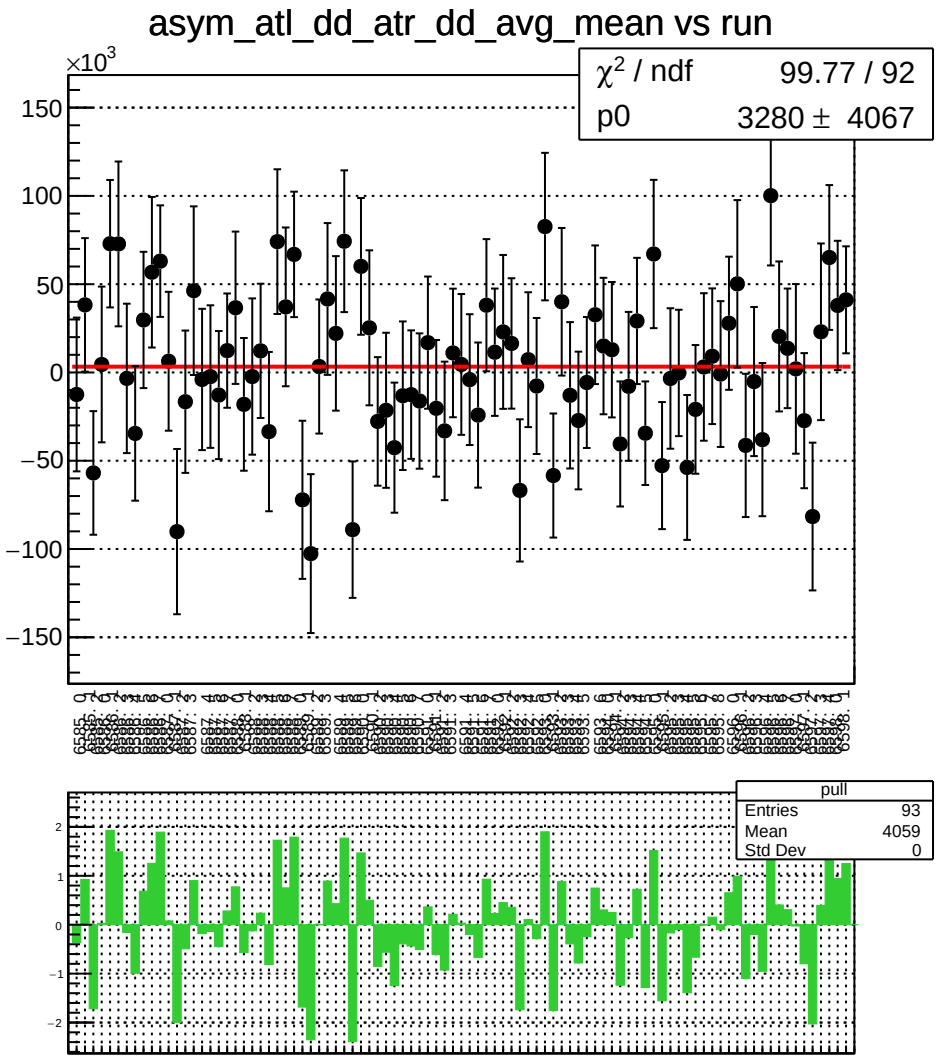

pull1D
Entries 93
Mean 0.0007292
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

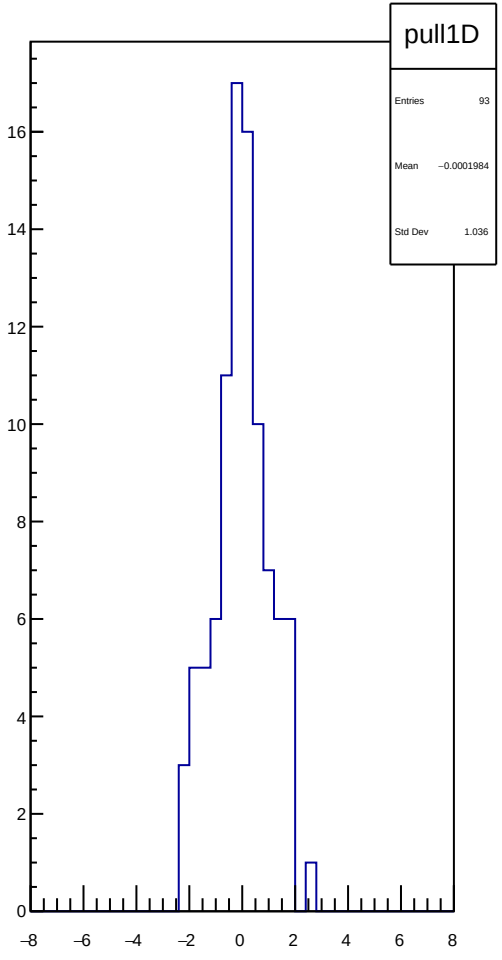

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 174.9 / 92
p0 1370 ± 1.03
1420
1400
1380
1360
1340
1320

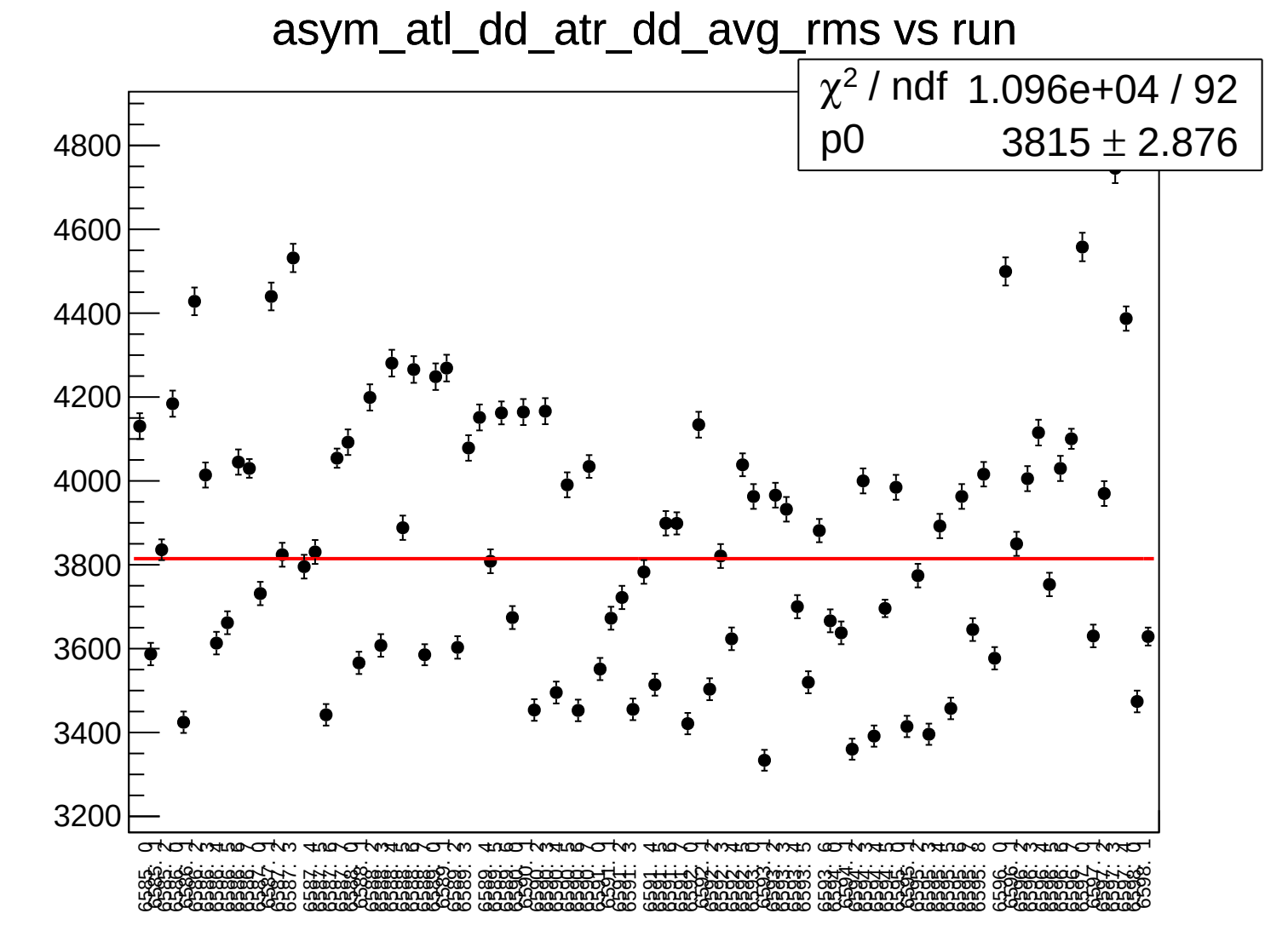

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.79 / 92
p0 −1533 ± 4113
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 95.82
Std Dev 291.1
2
1
0
−1
−2
−3

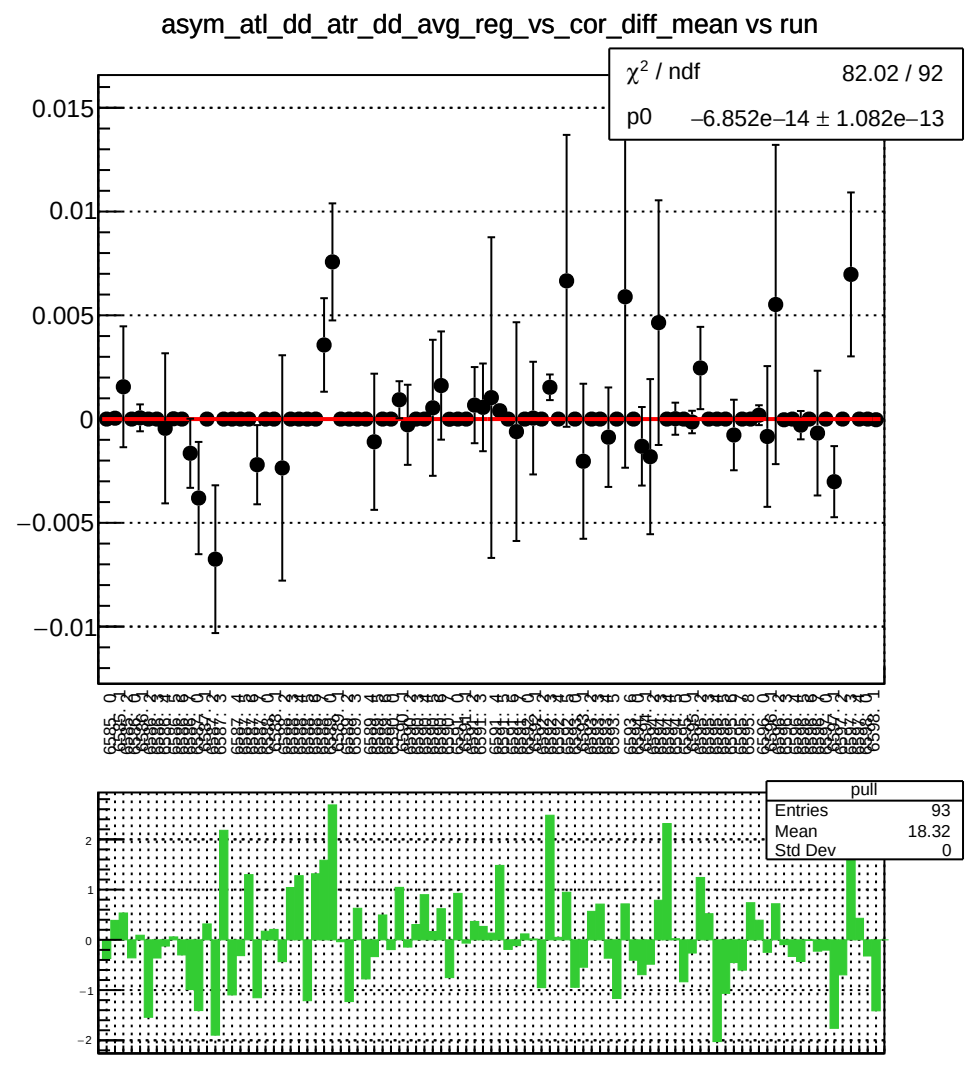

pull1D
Entries 93
Mean −0.001337
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

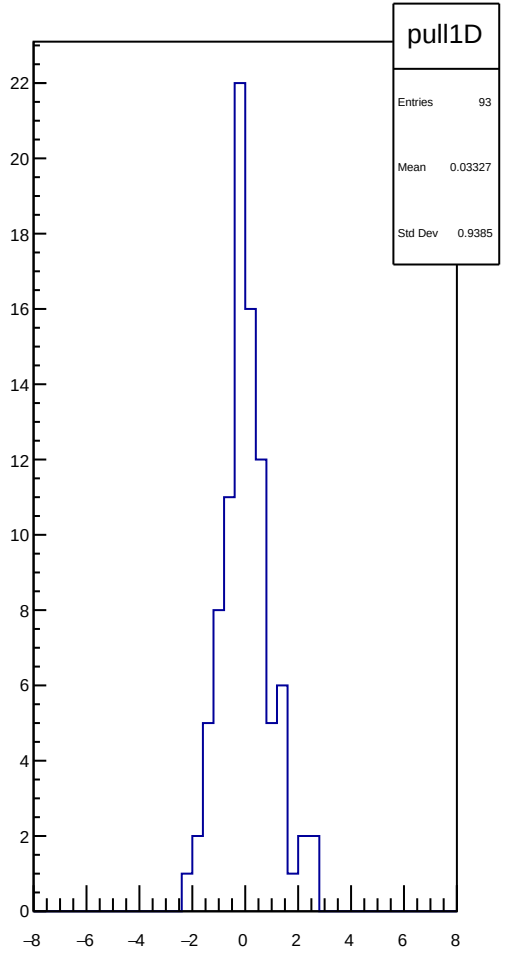

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.419e+04 / 92
p0 3855 ± 2.909
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

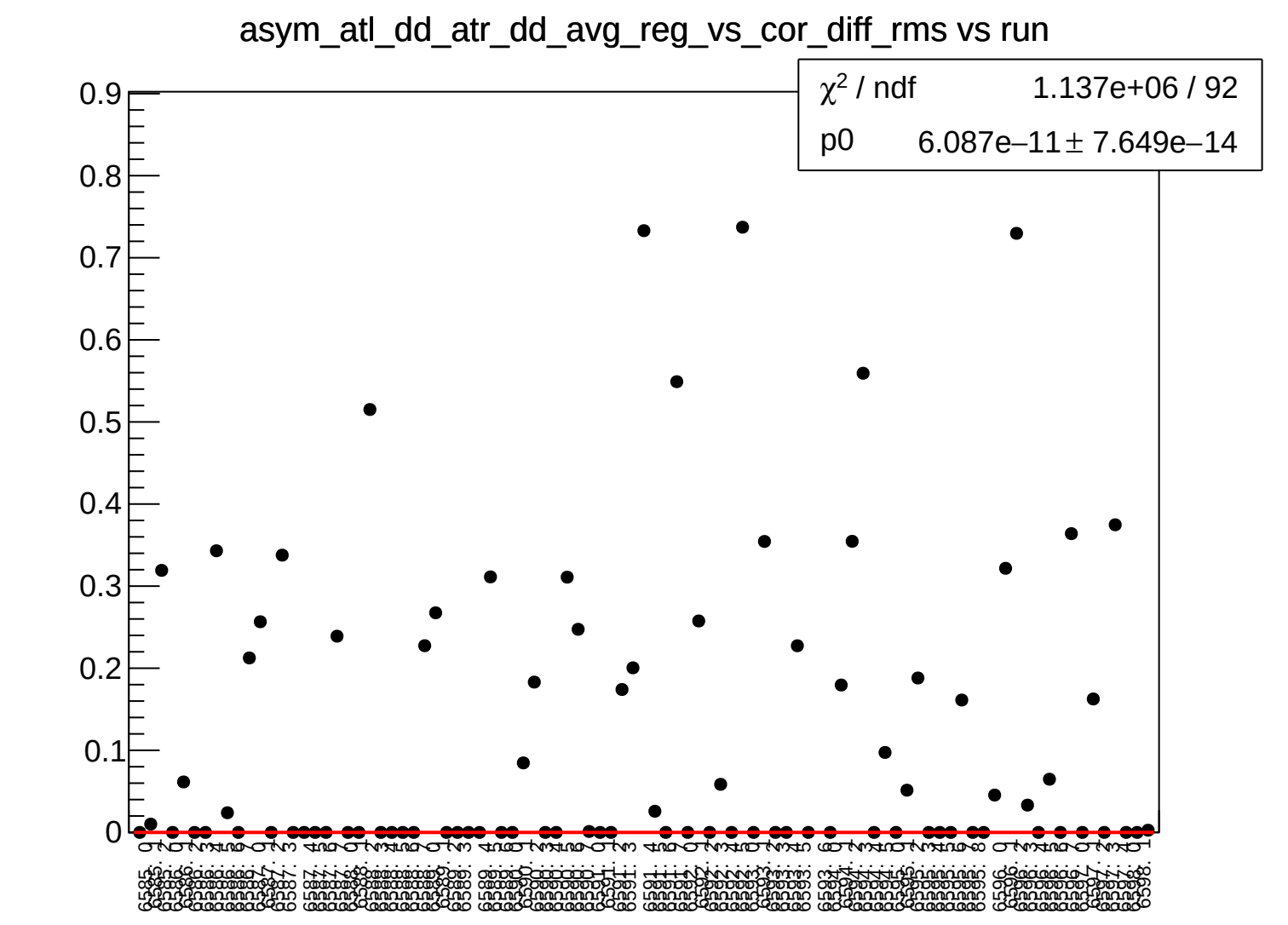

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 99.77 / 92
p0 3280 ± 4067
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 4059
Std Dev 0
2
1
0
−1
−2

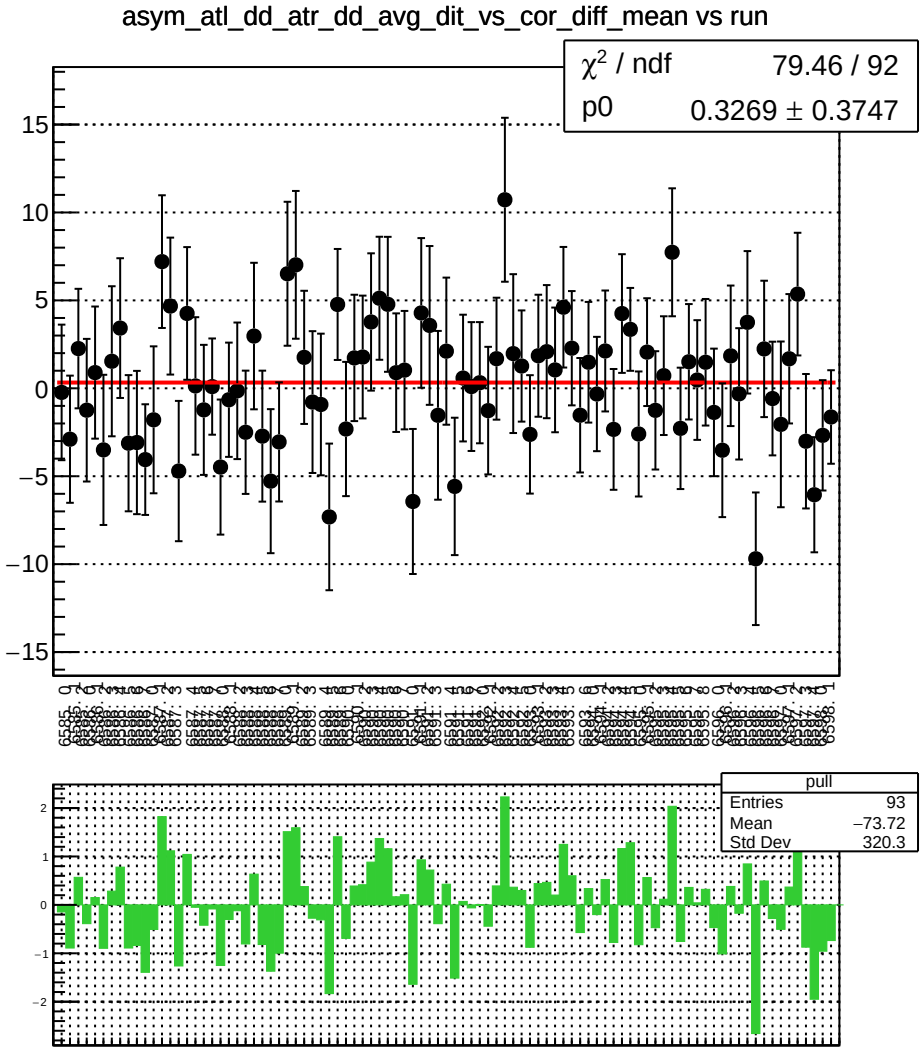

pull1D
Entries 93
Mean −0.0001984
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

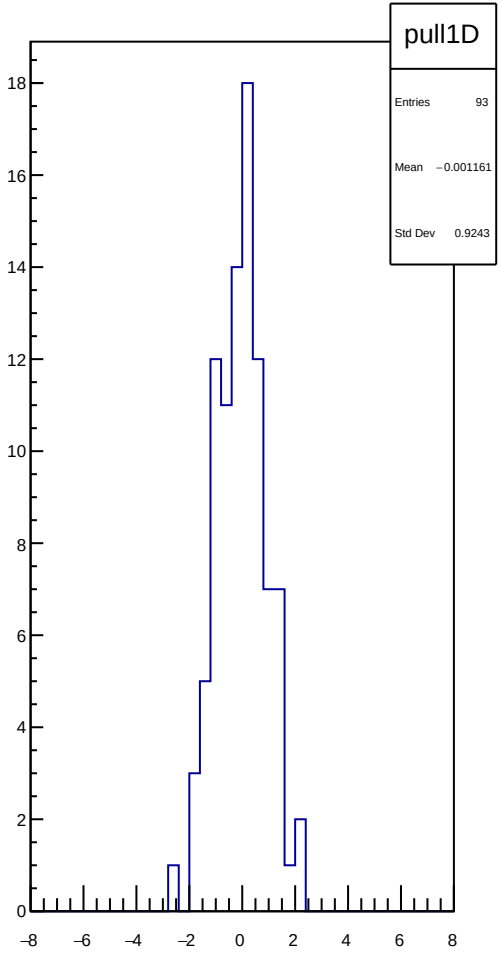

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.096e+04 / 92
p0 3815 ± 2.876
4800
4600
4400
4200
4000
3800
3600
3400
3200

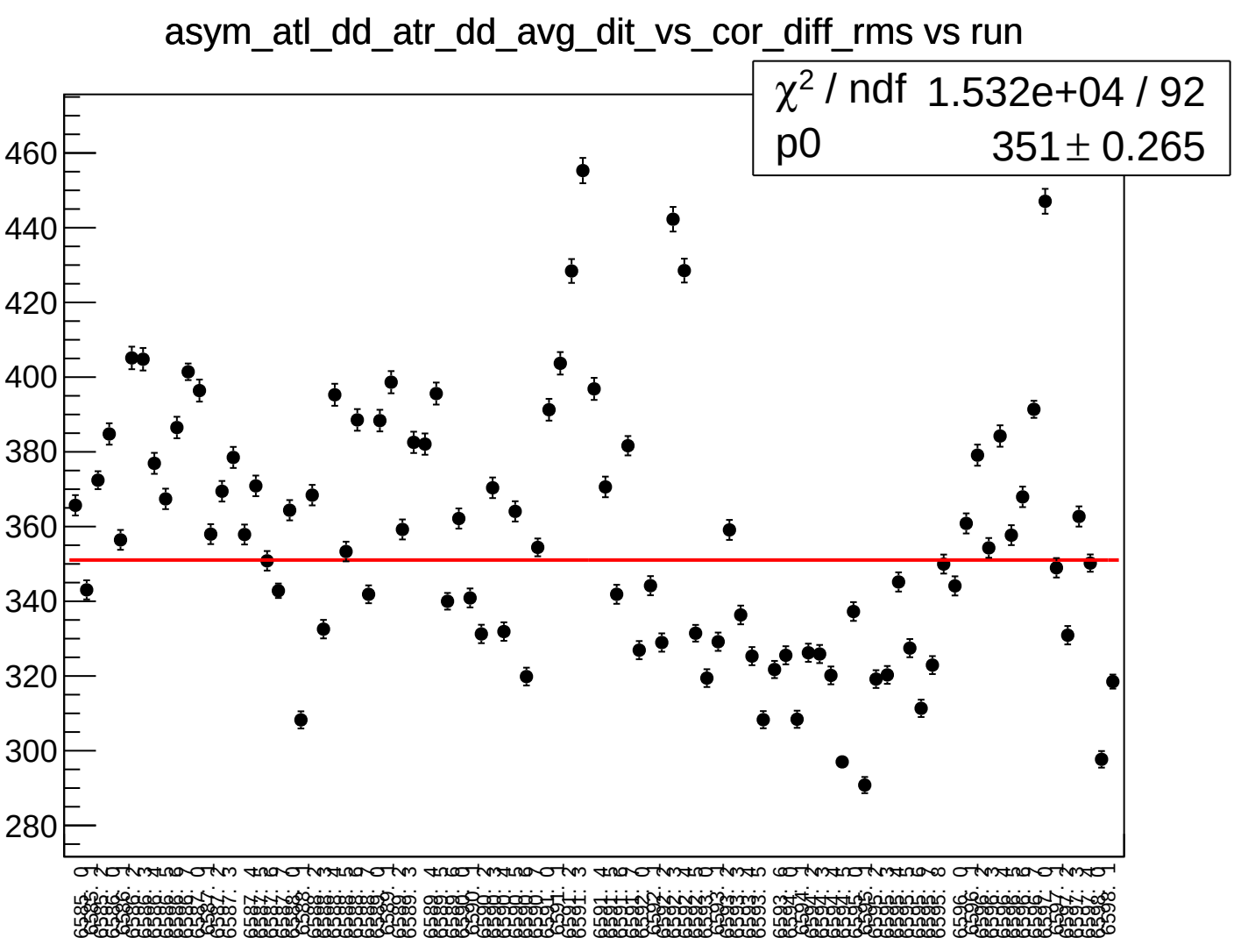

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.02 / 92
p0 −6.852e−14 ± 1.082e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 18.32
Std Dev 0
2
1
0
−1
−2

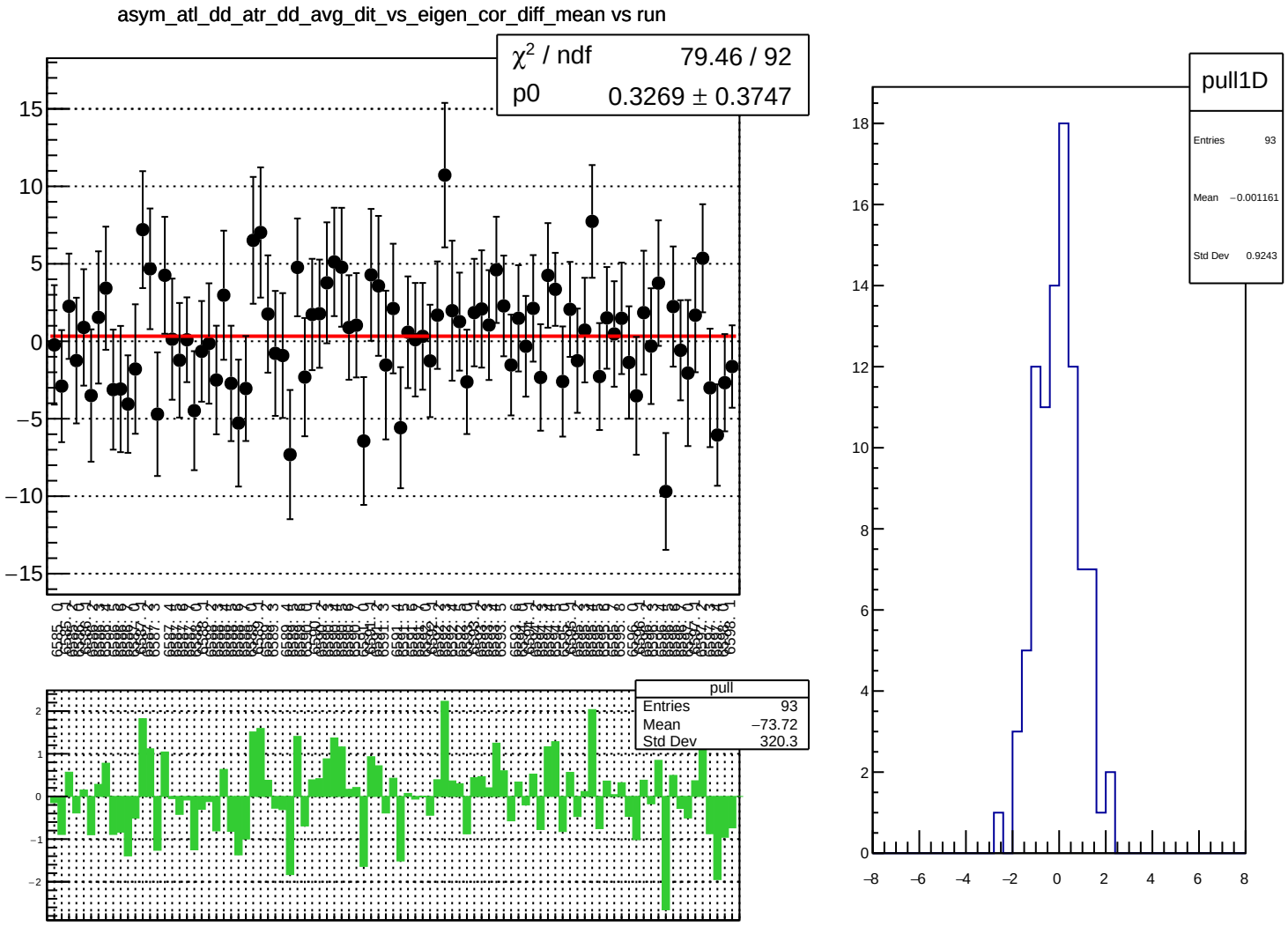

pull1D
Entries 93
Mean 0.03327
Std Dev 0.9385
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

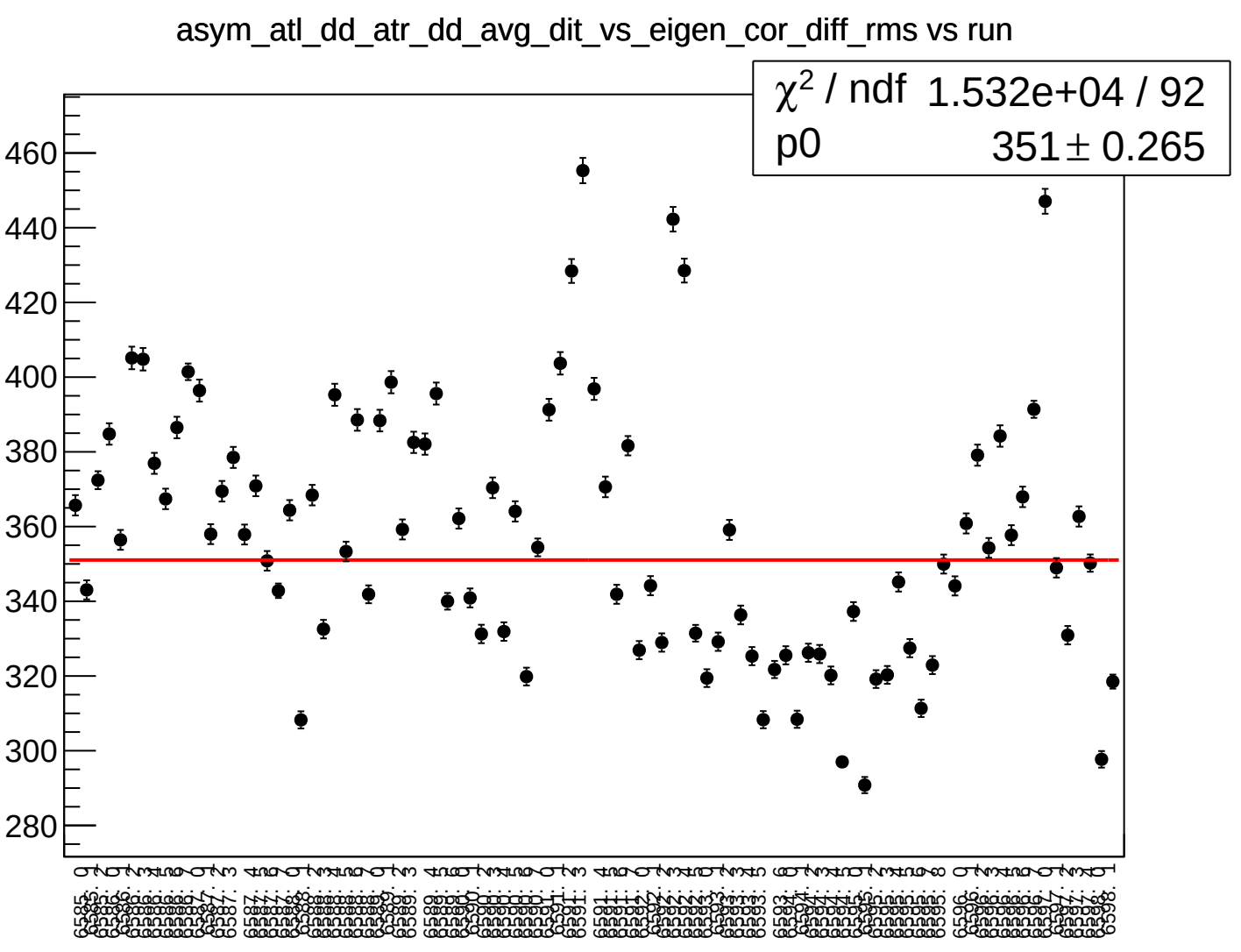

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 92
p0 6.087e−11 ± 7.649e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

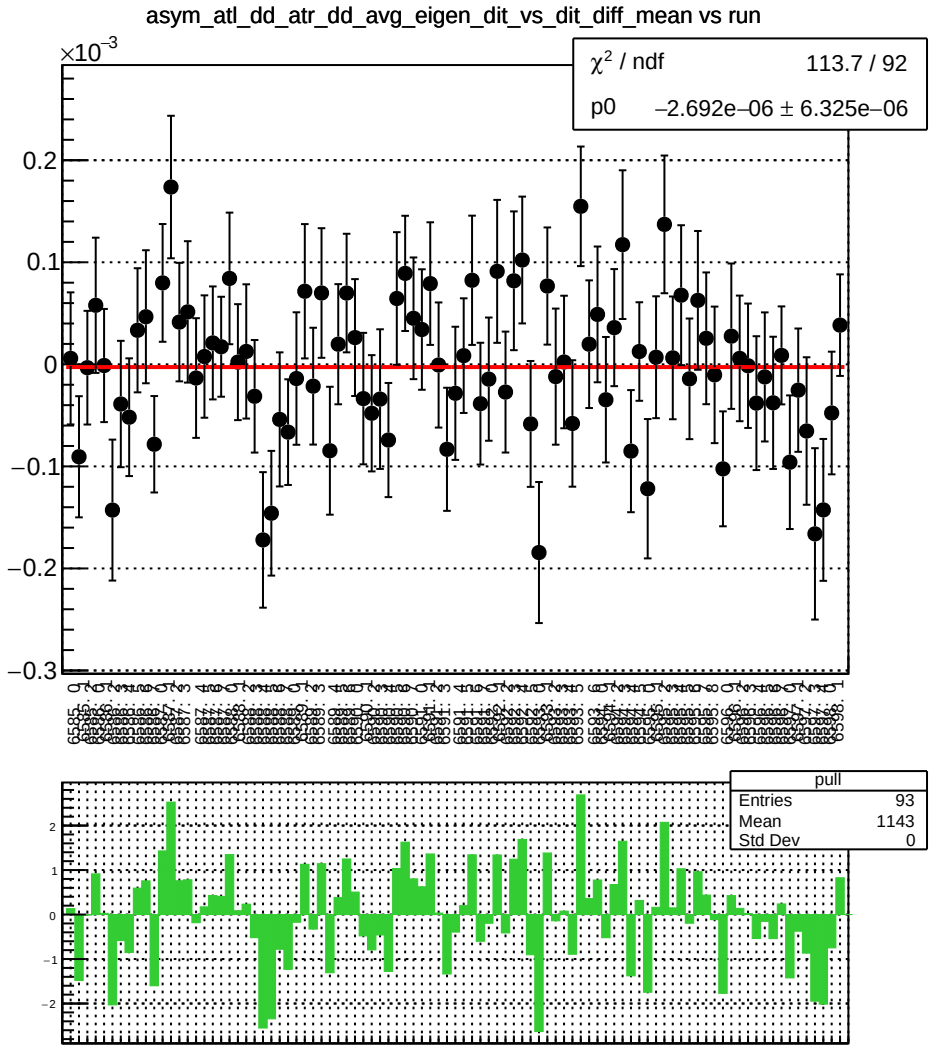

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.72
Std Dev 320.3

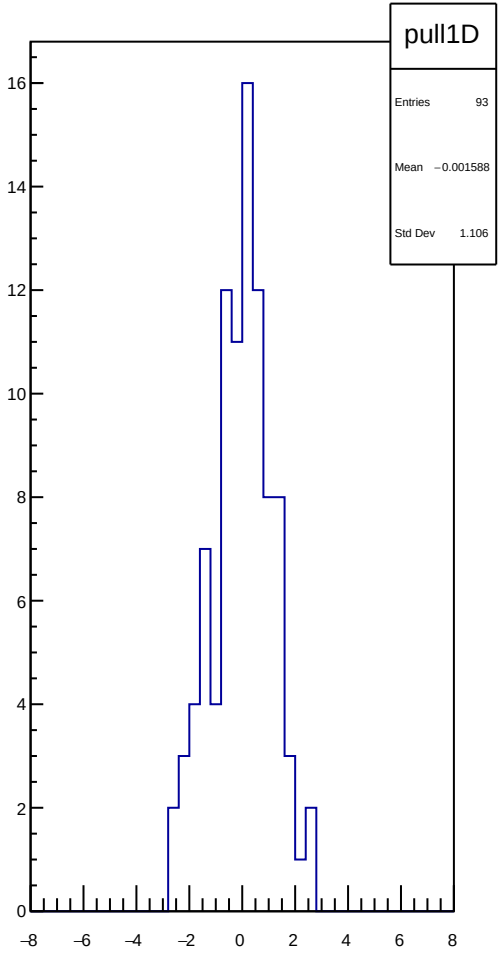

pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

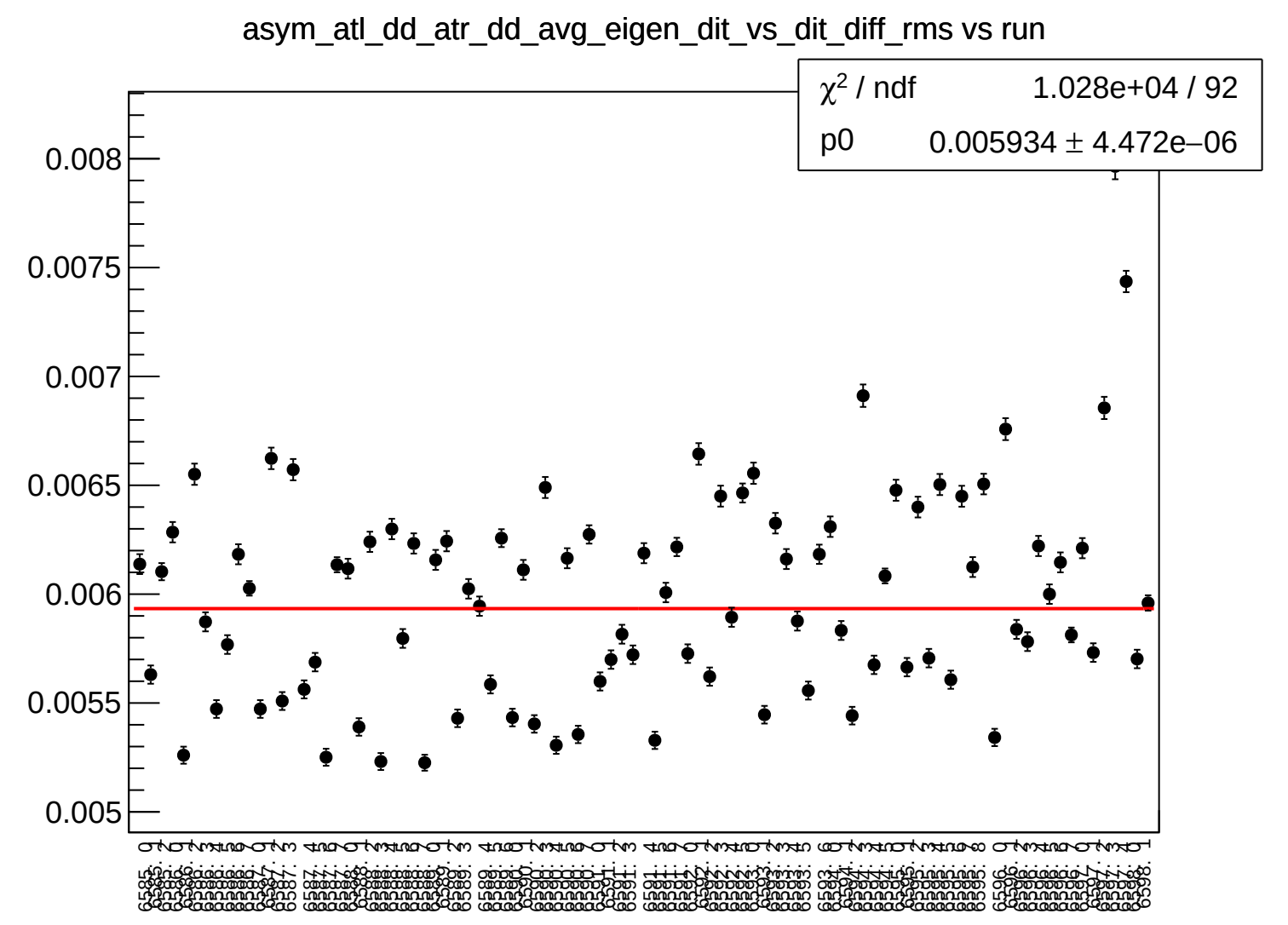

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

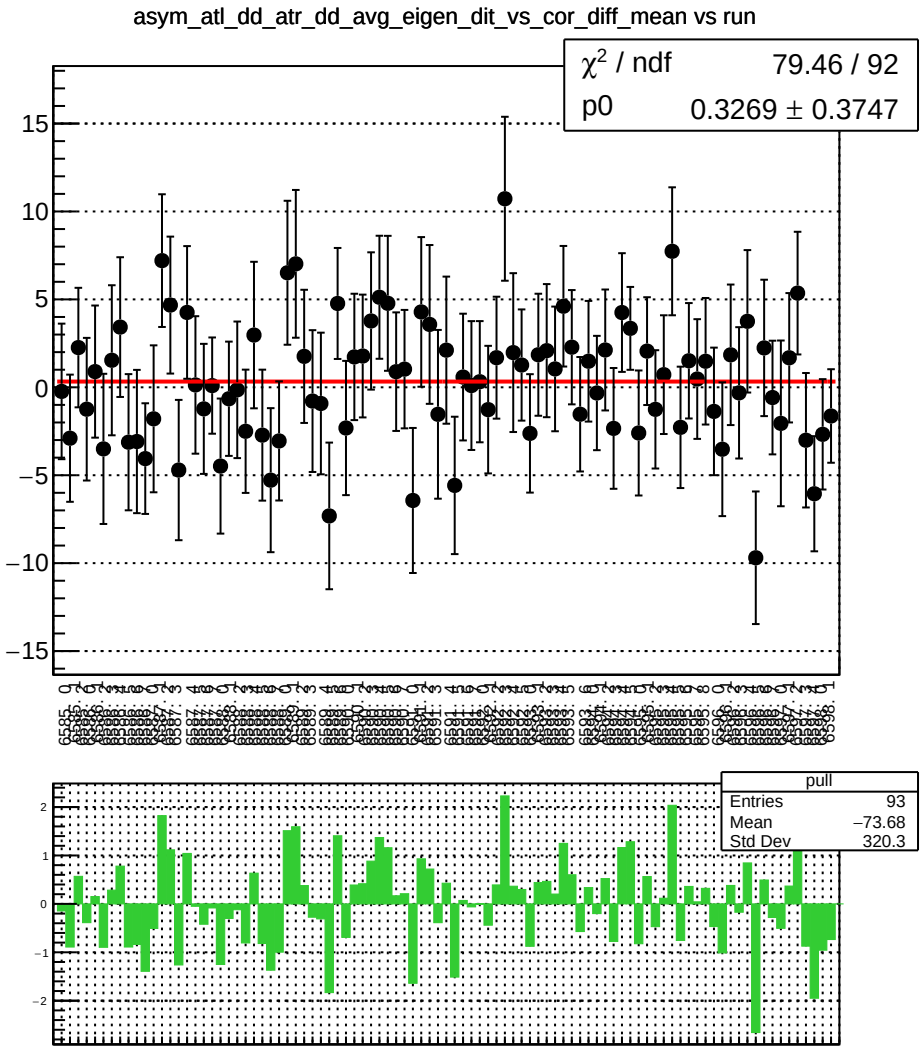

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.72
Std Dev 320.3
pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

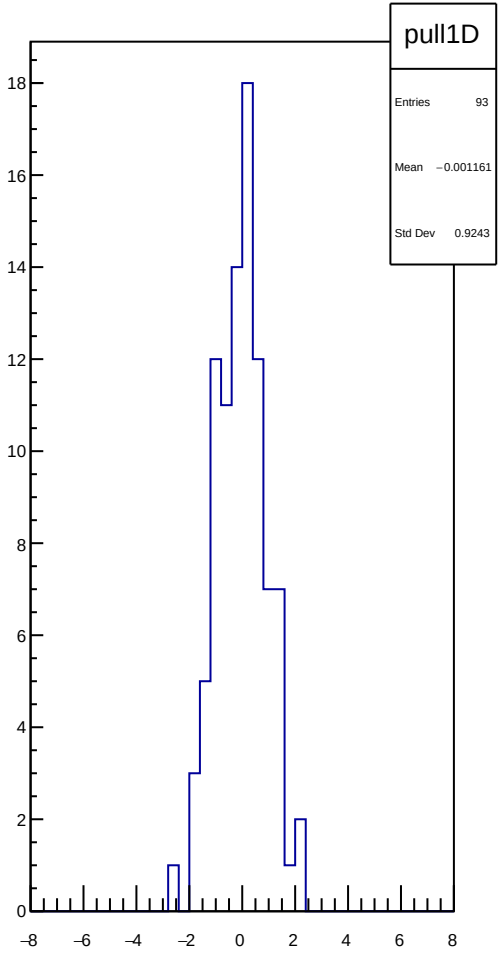

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

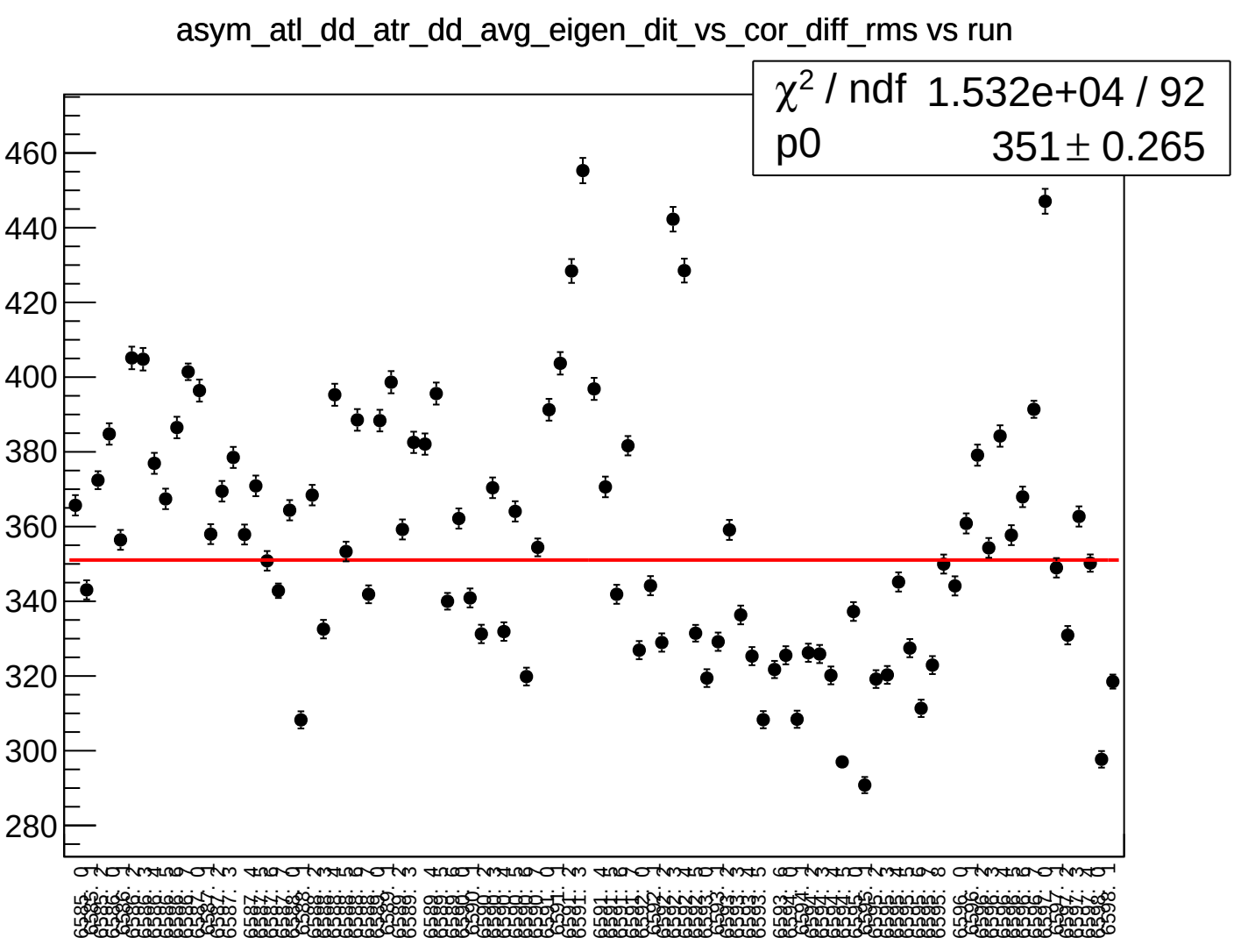

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.7 / 92
p0 −2.692e−06 ± 6.325e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean 1143
Std Dev 0
2
1
0
−1
−2

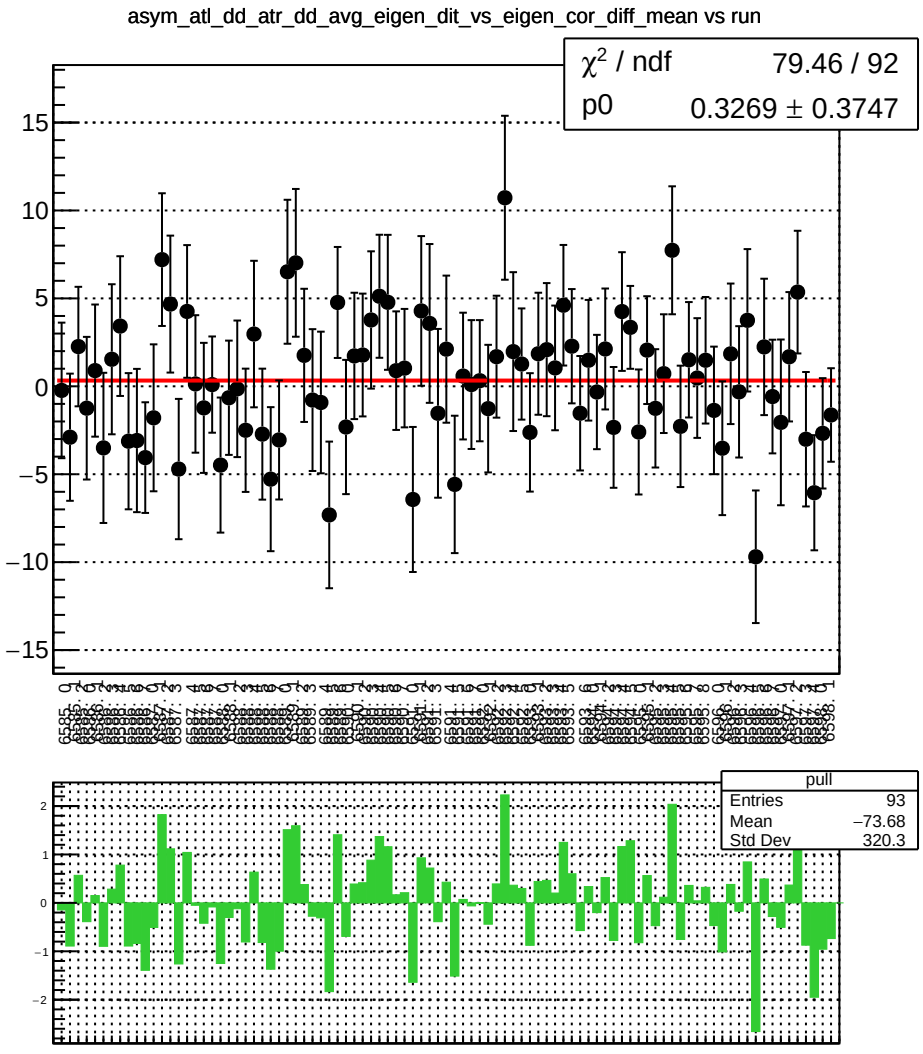

pull1D
Entries 93
Mean −0.001588
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

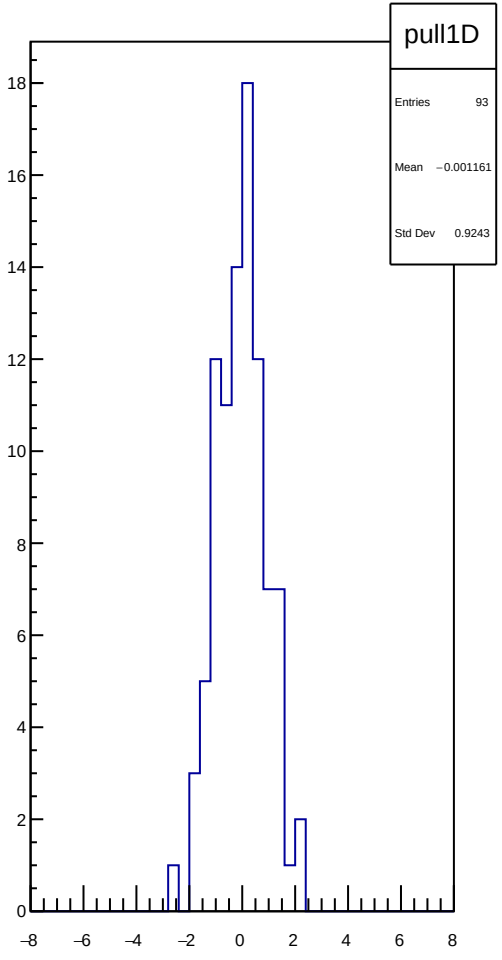

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.028e+04 / 92
p0 0.005934 ± 4.472e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

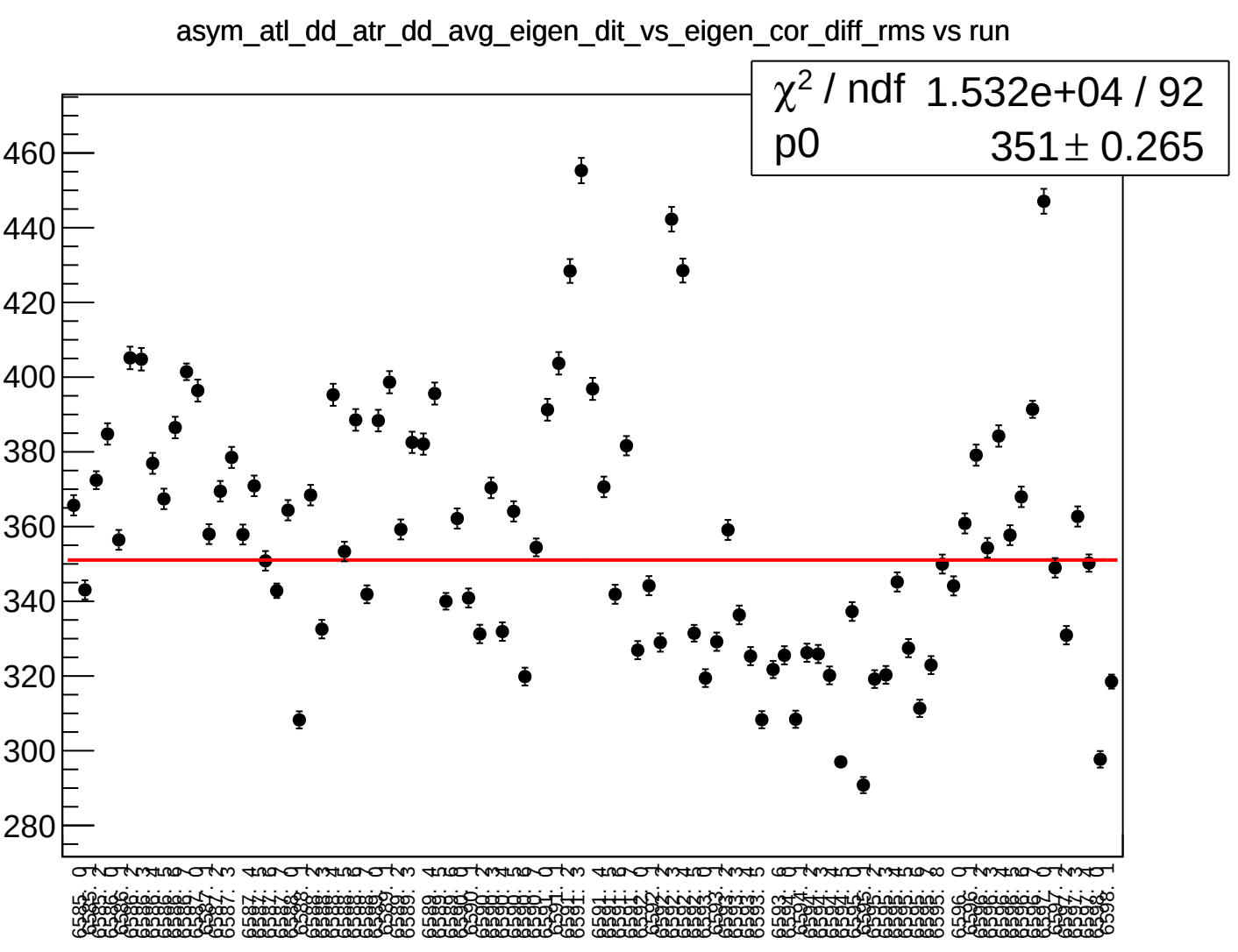

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.68
Std Dev 320.3

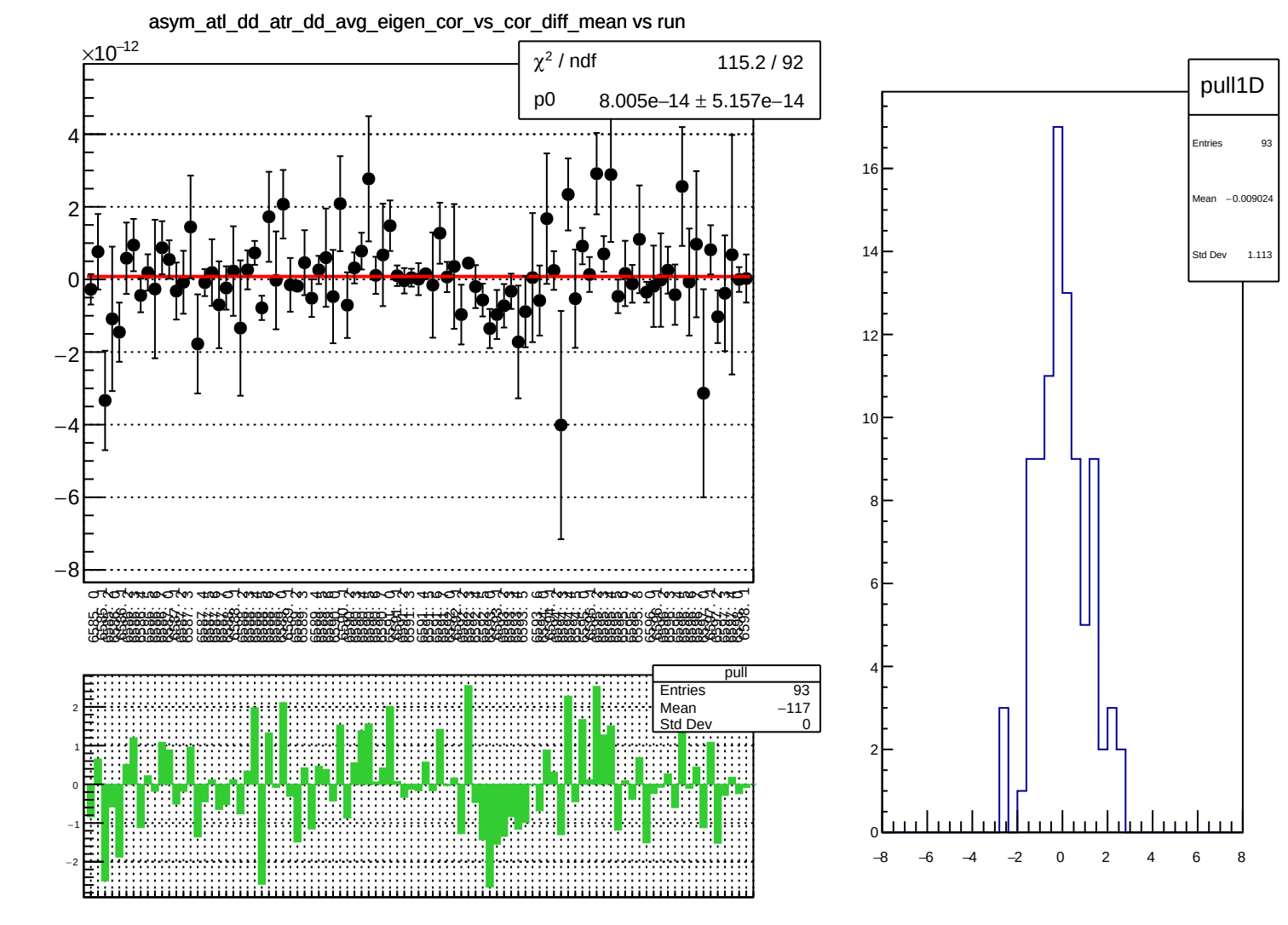

pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

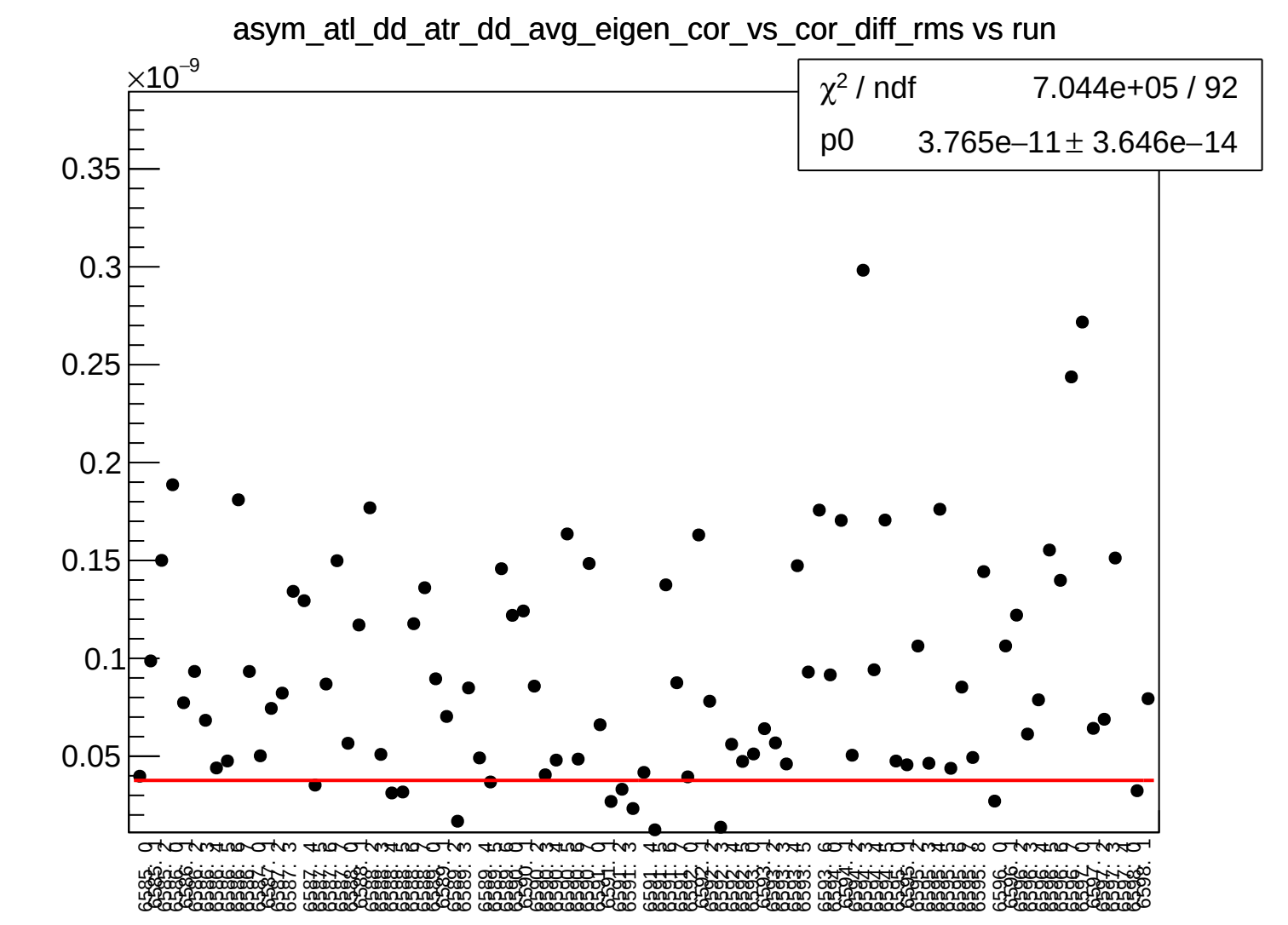

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

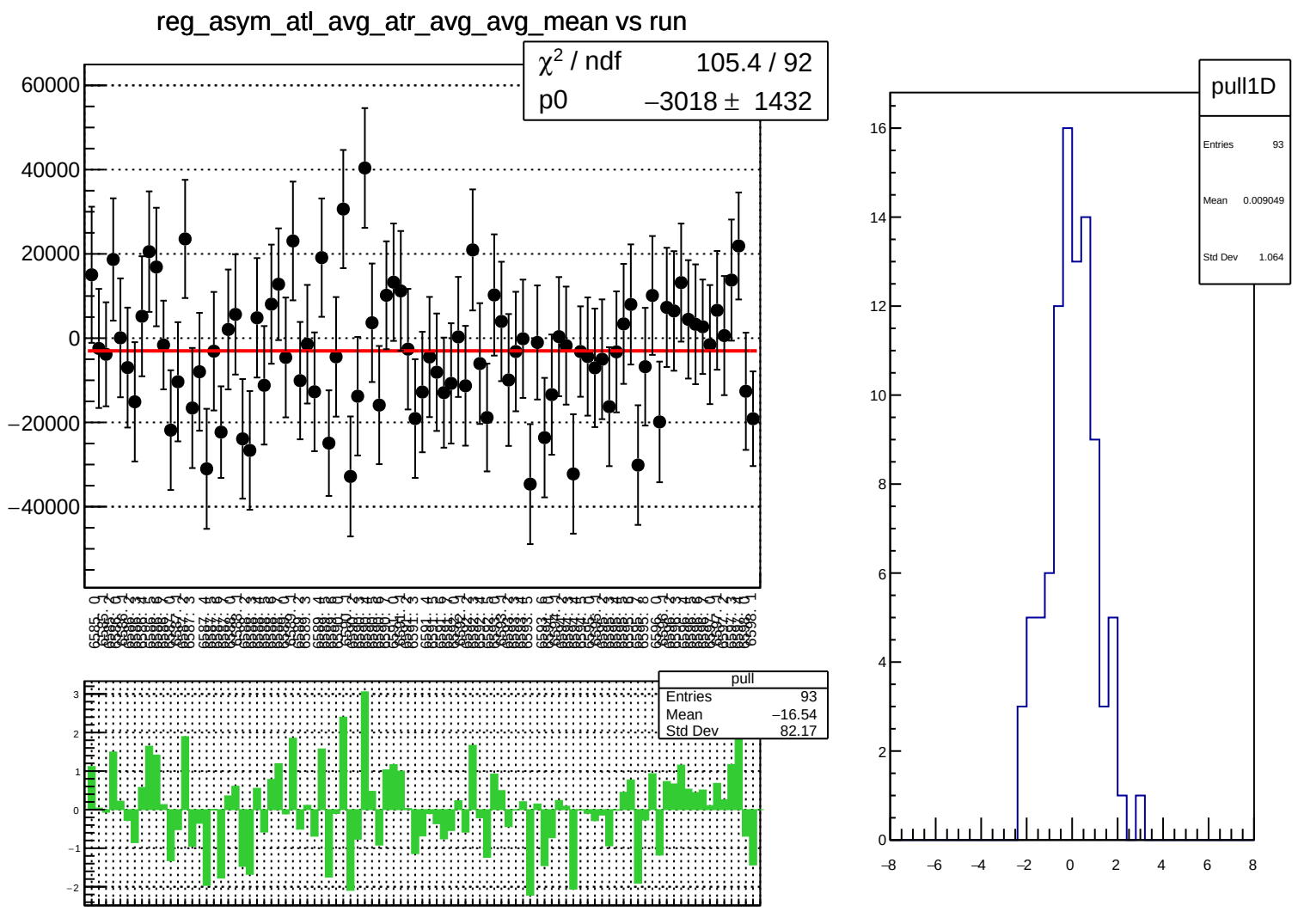

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.68
Std Dev 320.3

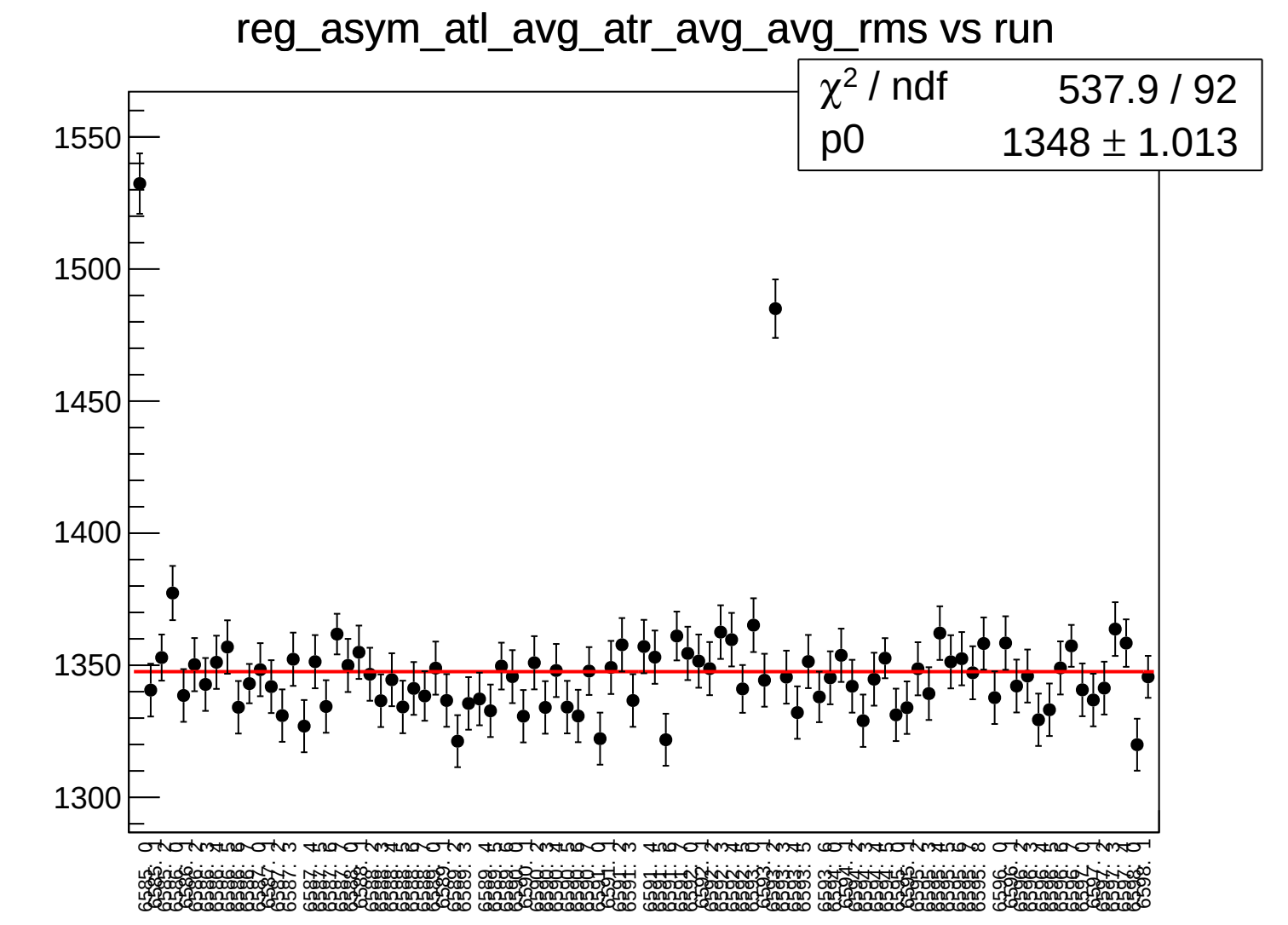

pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

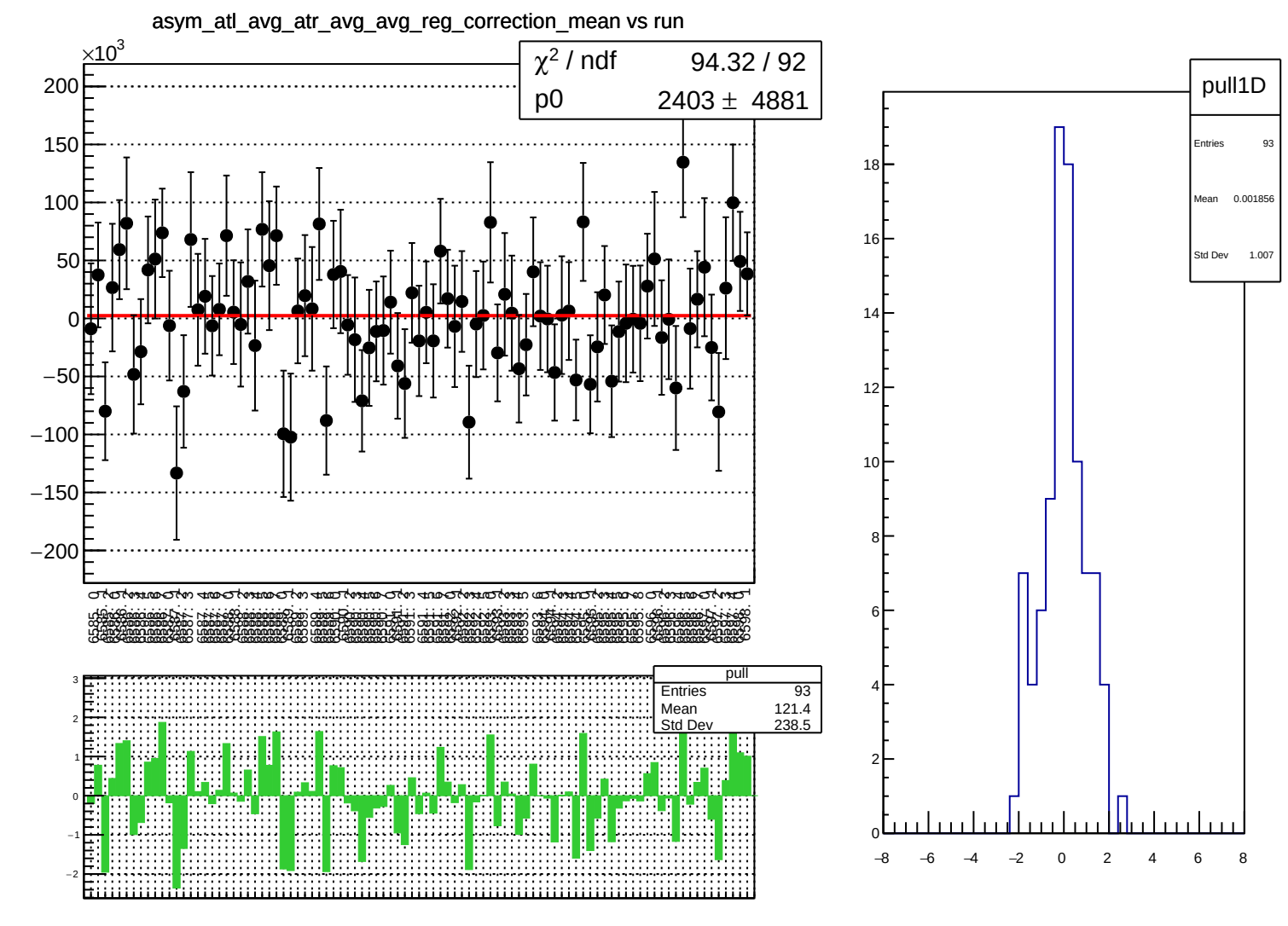

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

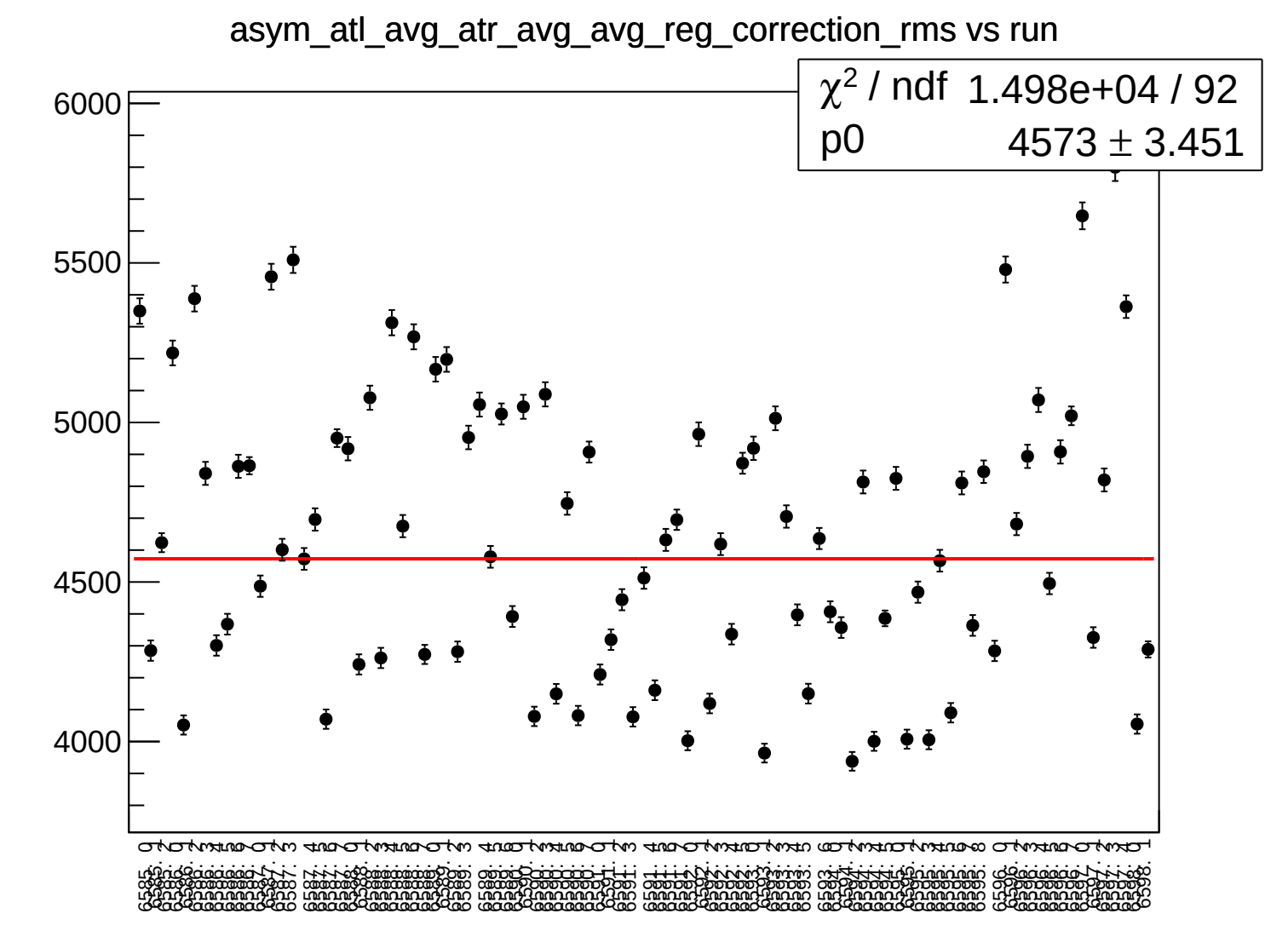

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 115.2 / 92
p0 8.005e−14 ± 5.157e−14
pull
Entries 93
Mean −117
Std Dev 0
pull1D
Entries 93
Mean −0.009024
Std Dev 1.113

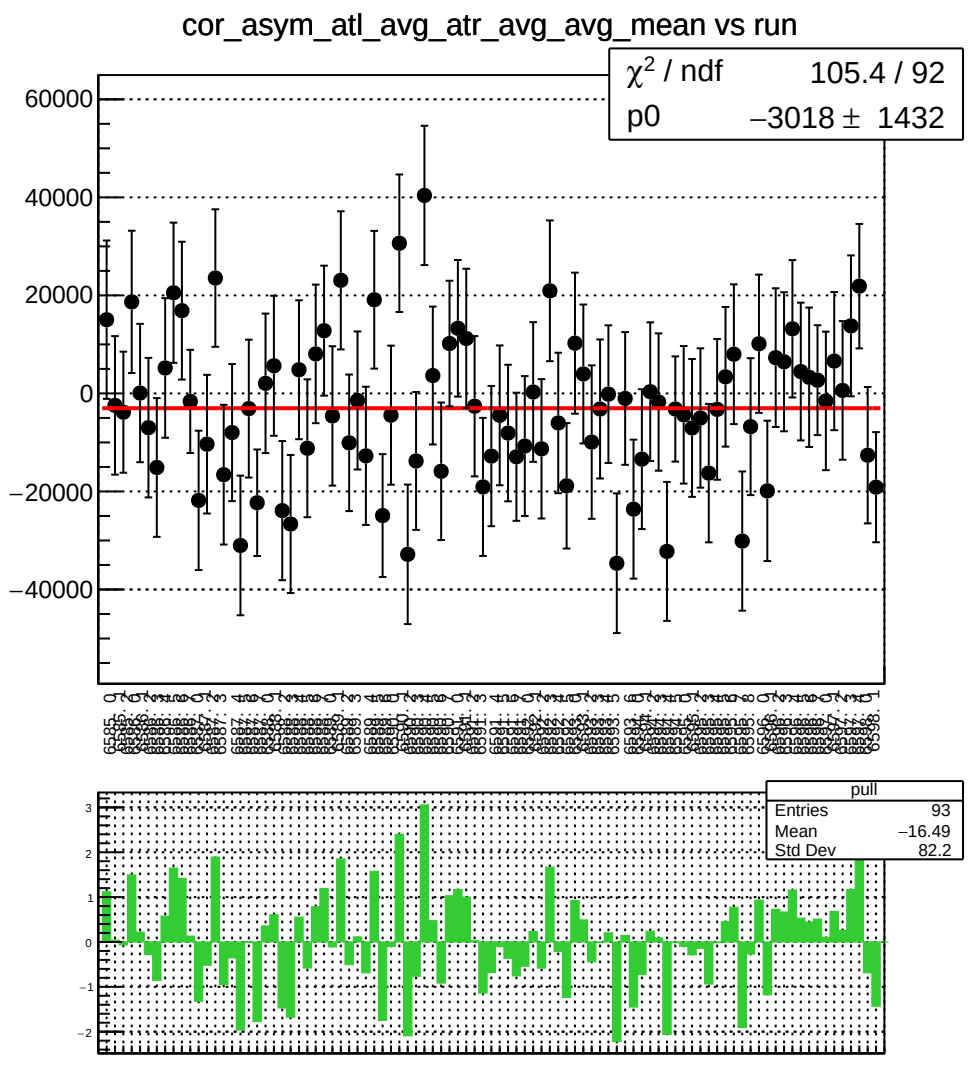

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.044e+05 / 92
p0 3.765e−11 ± 3.646e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

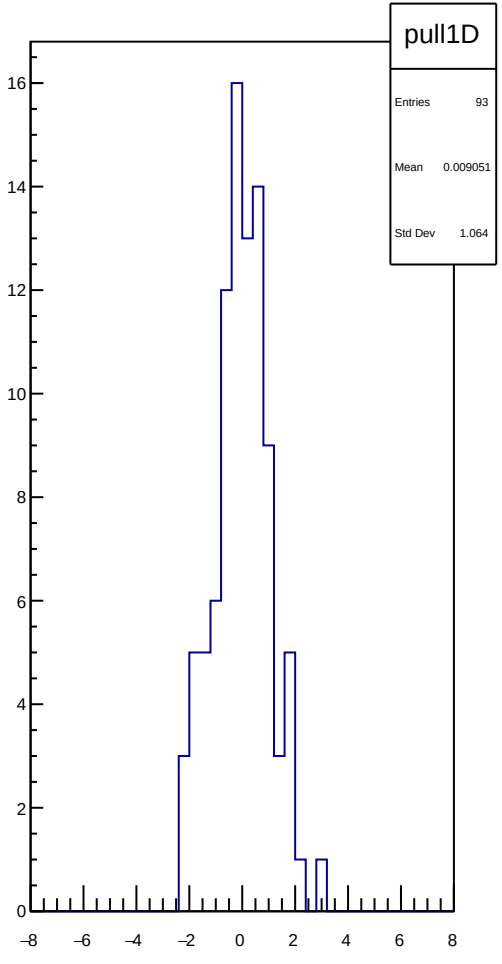

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 105.4 / 92
p0 −3018 ± 1432
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −16.54
Std Dev 82.17
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.009049
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

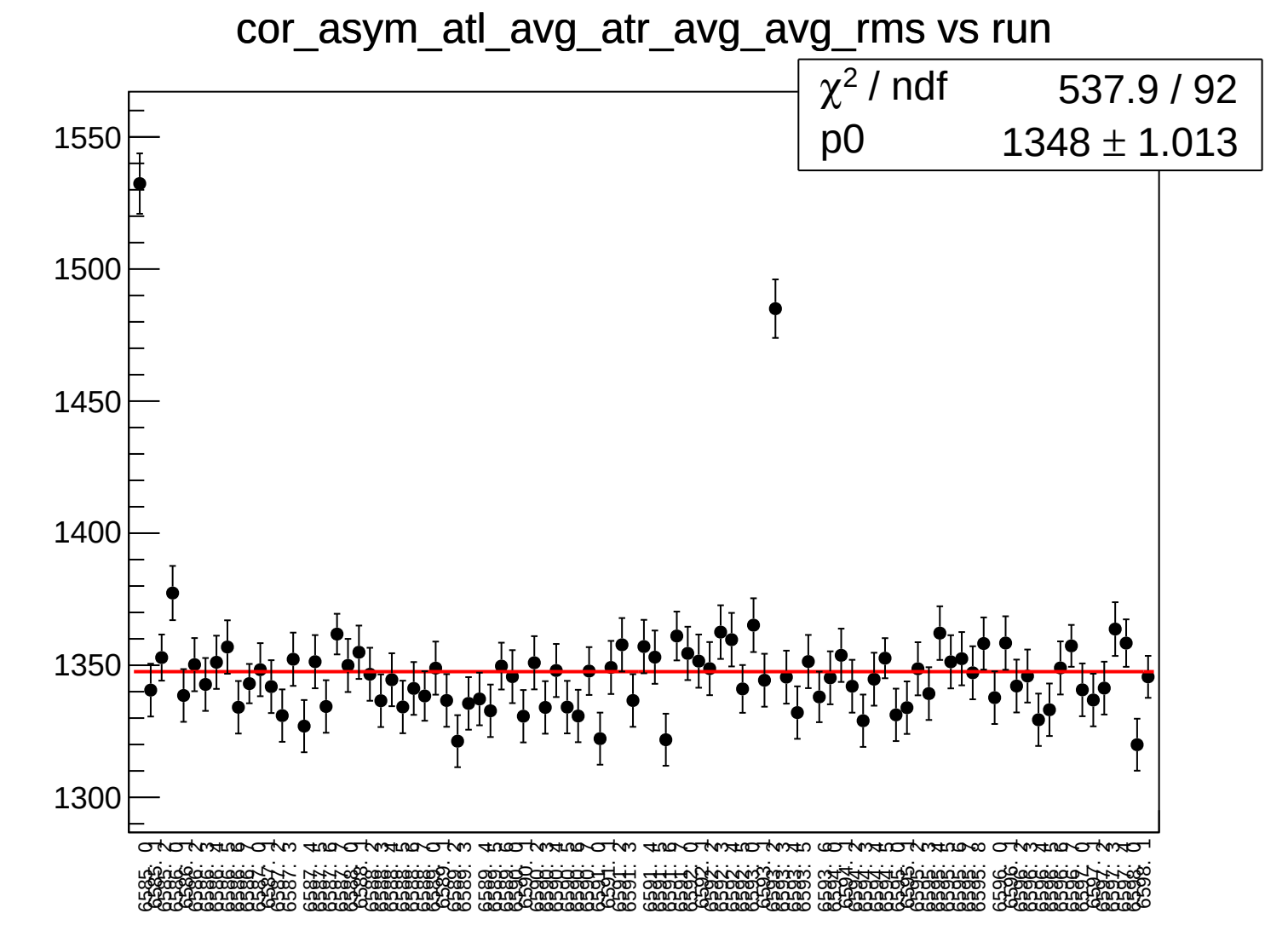

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 537.9 / 92
p0 1348 ± 1.013
1550
1500
1450
1400
1350
1300

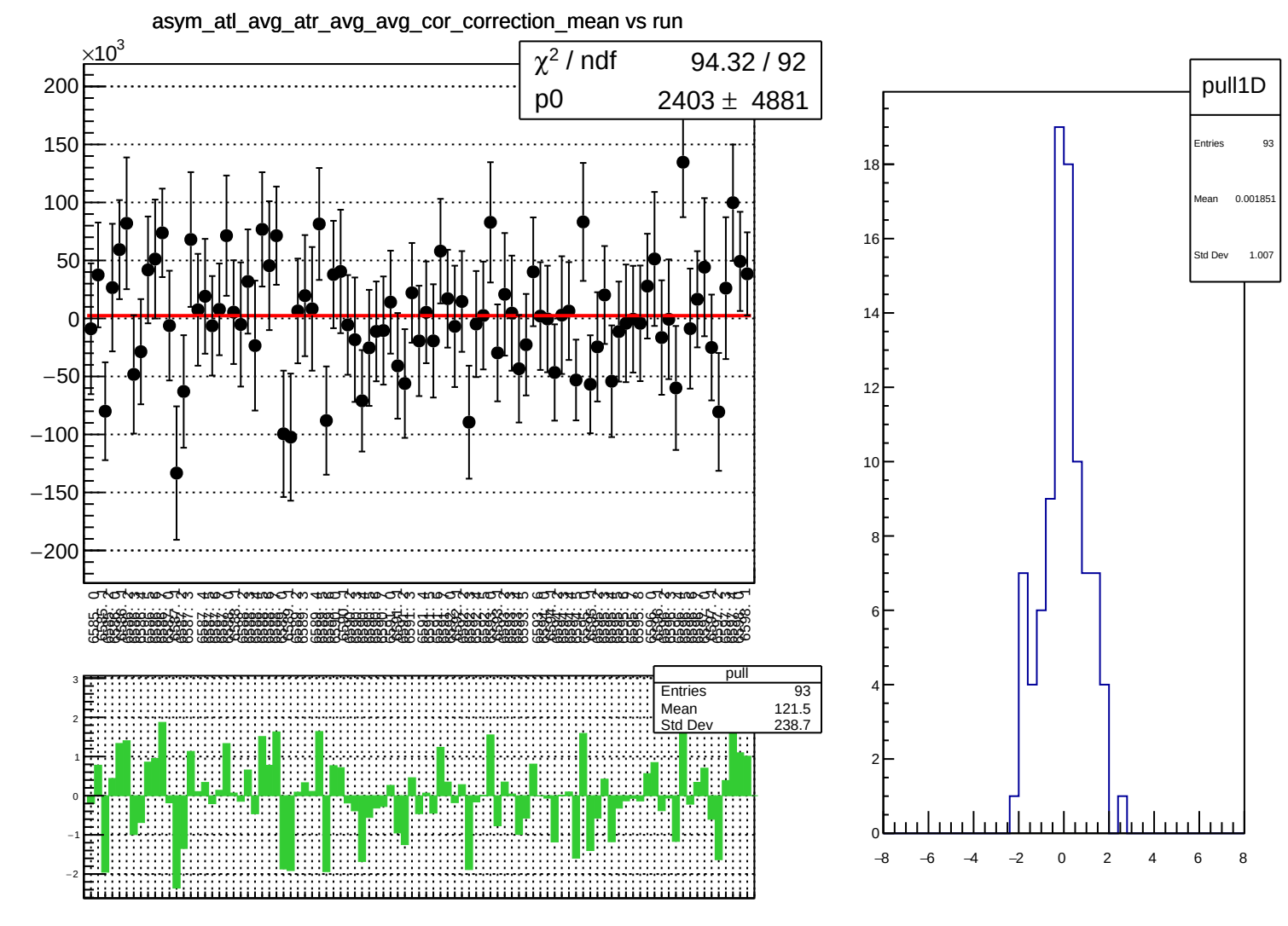

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 94.32 / 92
p0 2403 ± 4881
pull
Entries 93
Mean 121.4
Std Dev 238.5
pull1D
Entries 93
Mean 0.001856
Std Dev 1.007

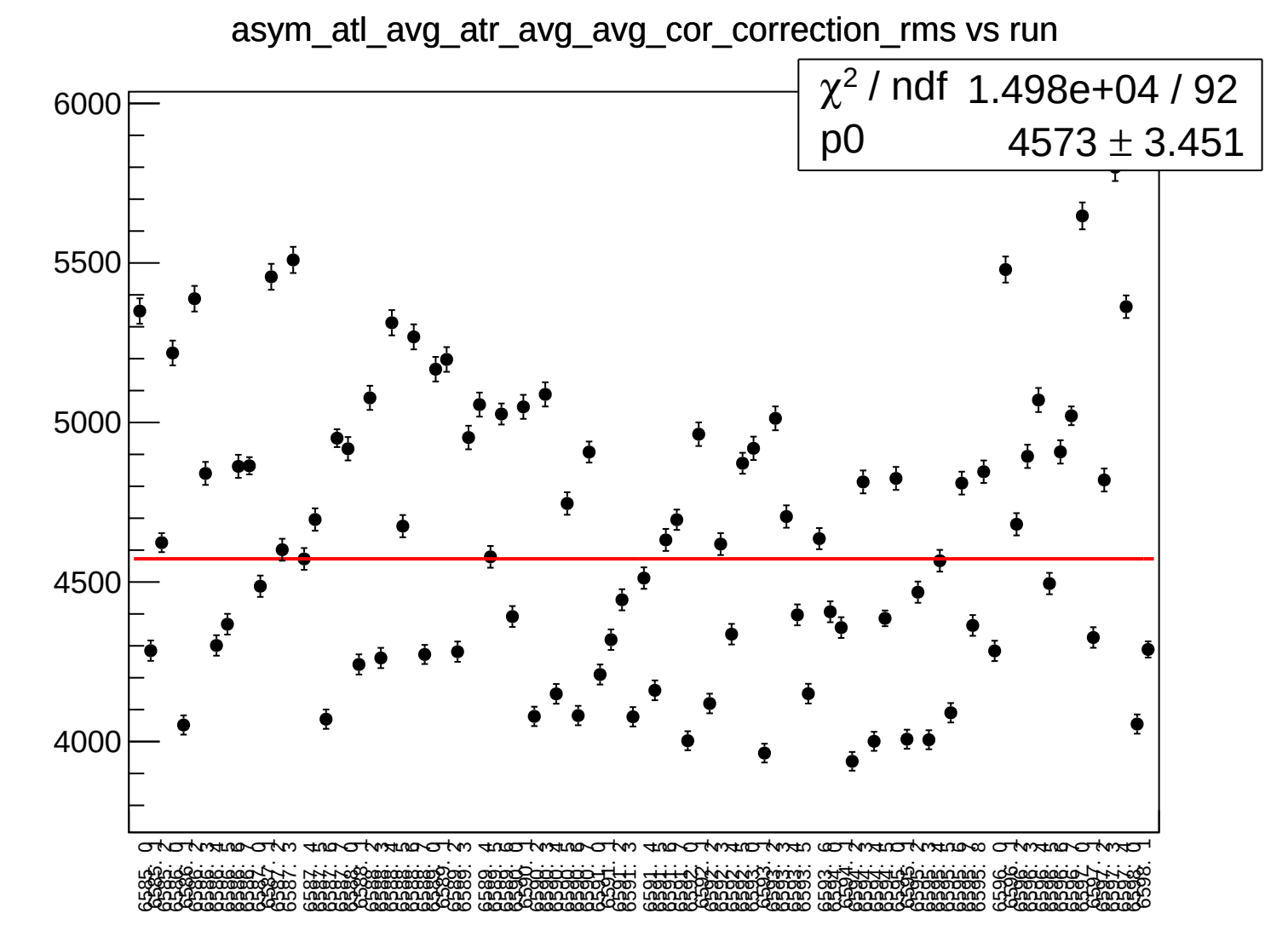

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.498e+04 / 92
p0 4573 ± 3.451
6000
5500
5000
4500
4000

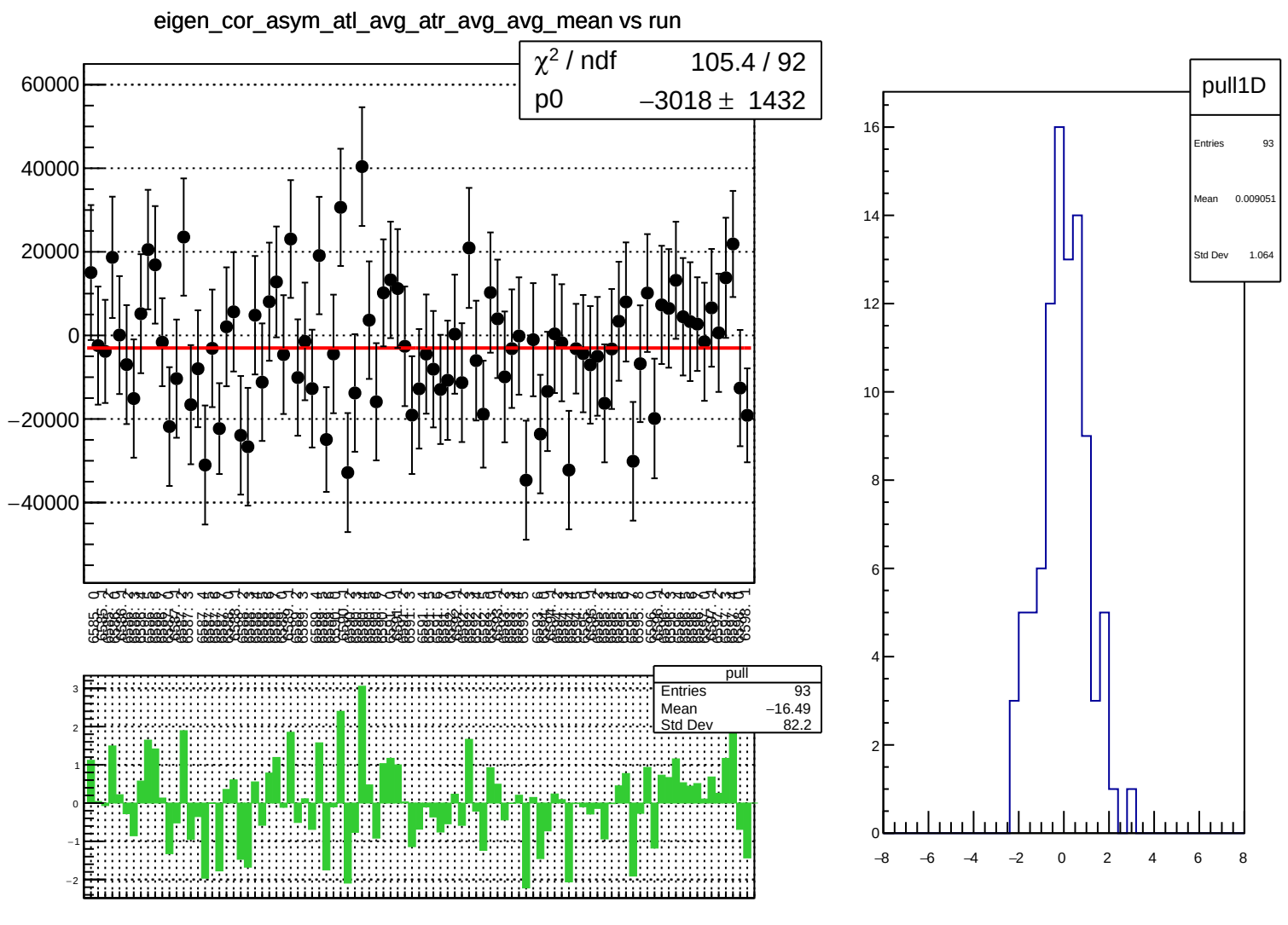

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 105.4 / 92
p0 −3018 ± 1432
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −16.49
Std Dev 82.2
3
2
1
0
−1
−2

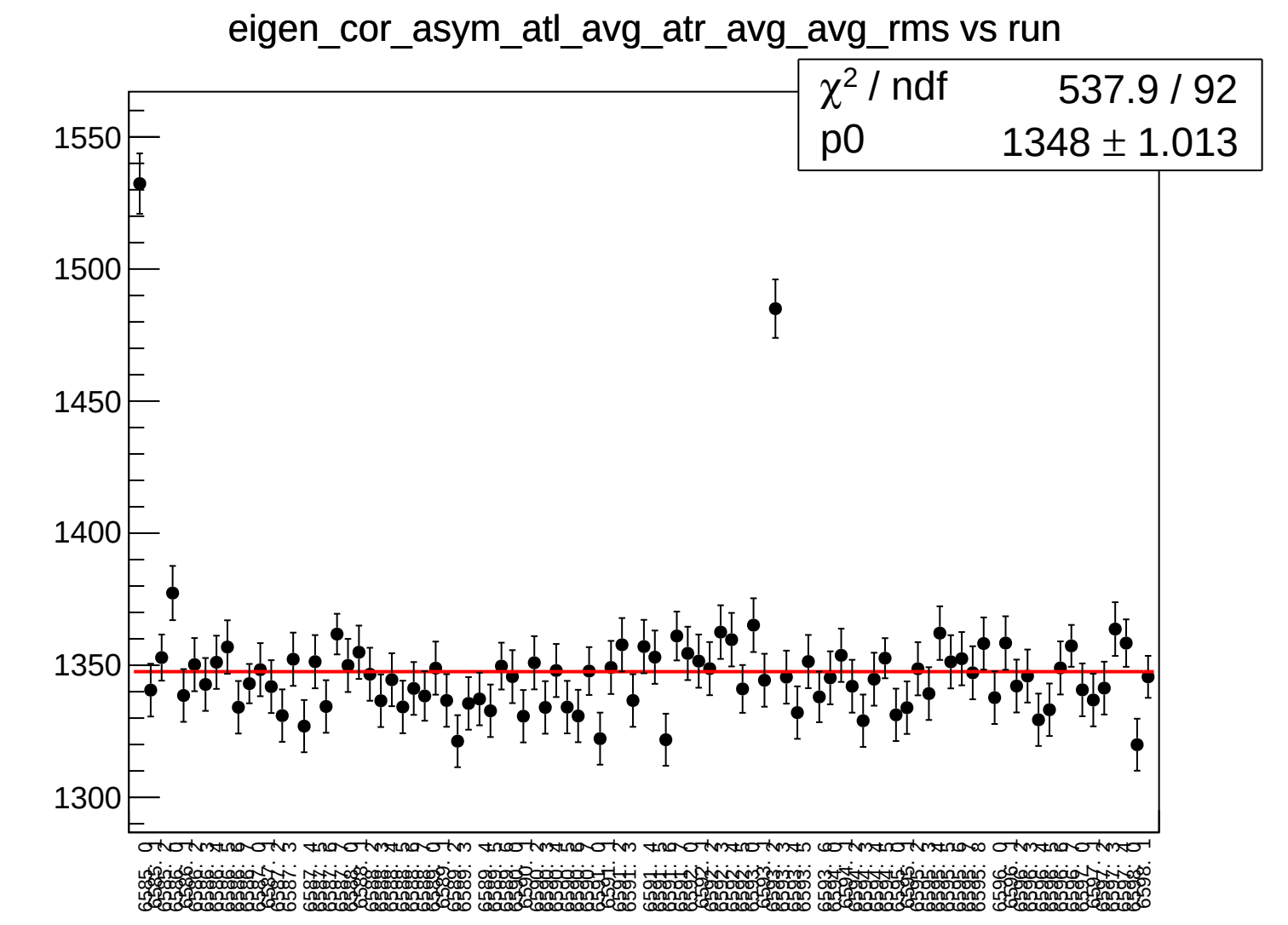

pull1D
Entries 93
Mean 0.009051
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

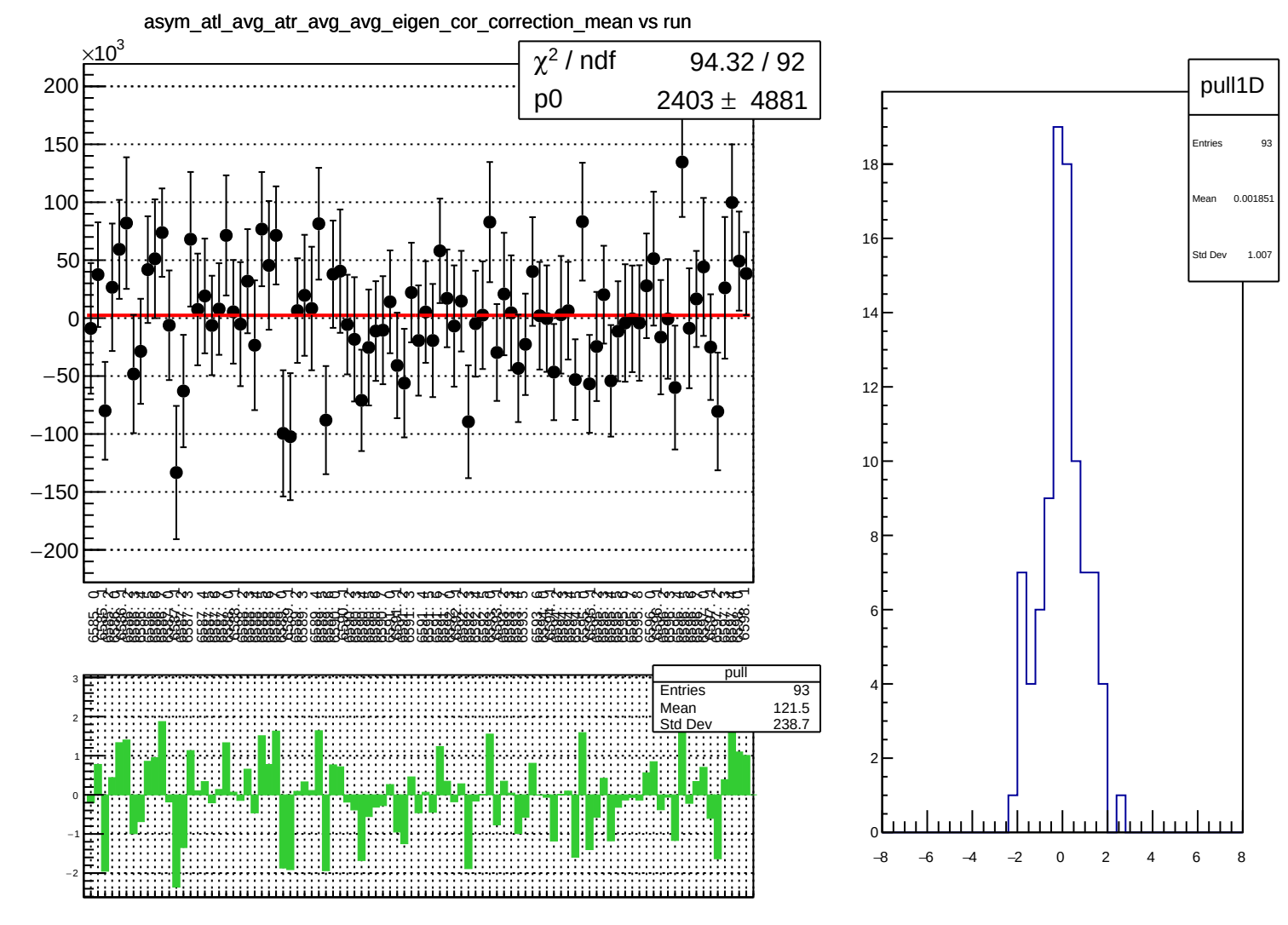

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 537.9 / 92
p0 1348 ± 1.013
1550
1500
1450
1400
1350
1300

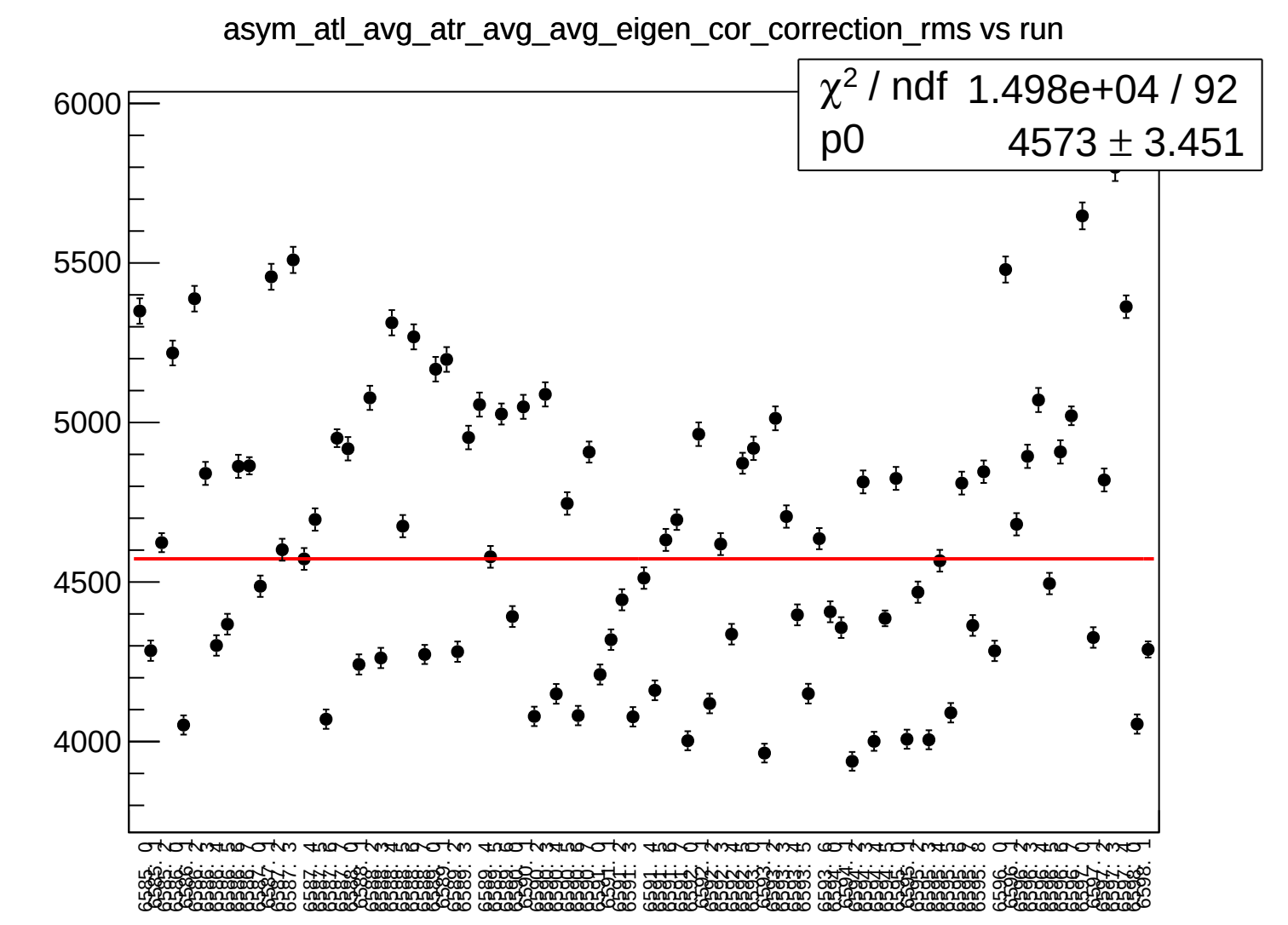

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.32 / 92
p0 2403 ± 4881
pull
Entries 93
Mean 121.5
Std Dev 238.7
pull1D
Entries 93
Mean 0.001851
Std Dev 1.007

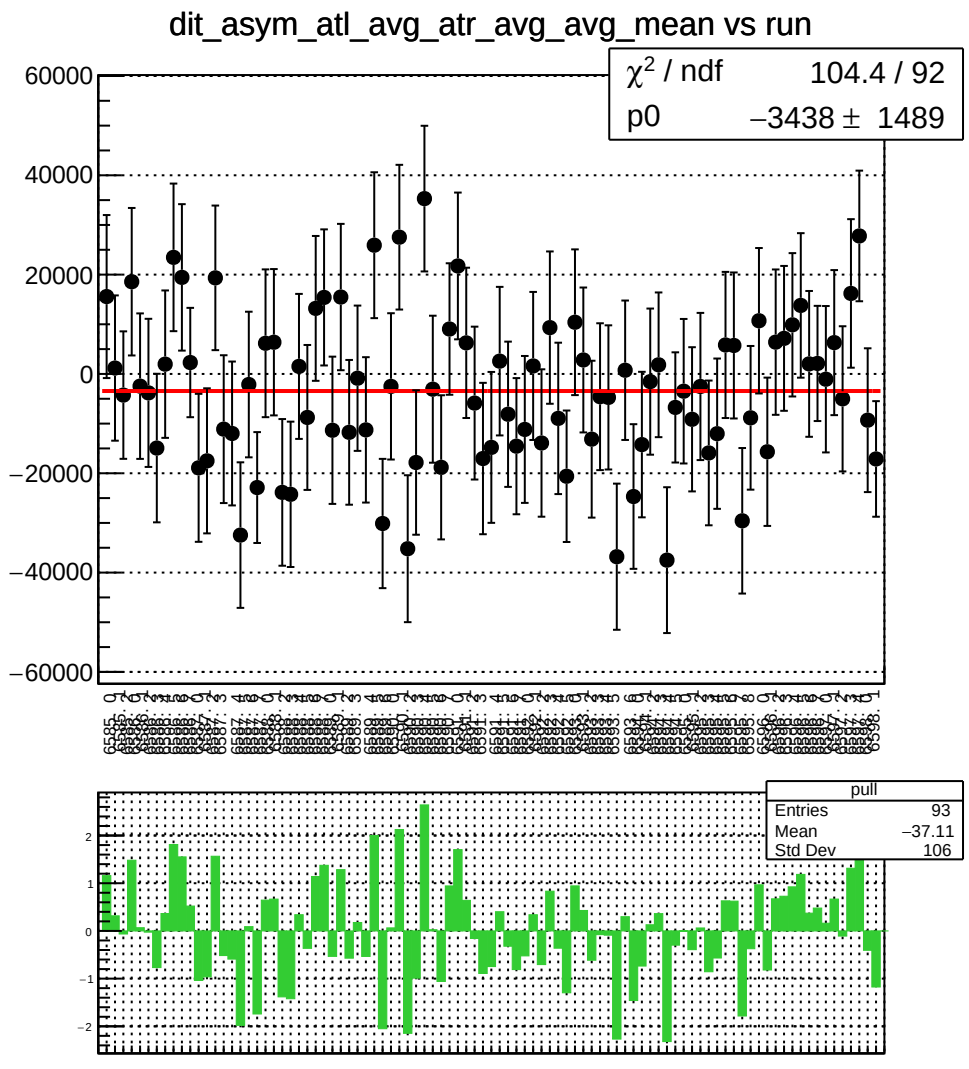

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.498e+04 / 92
p0 4573 ± 3.451
6000
5500
5000
4500
4000

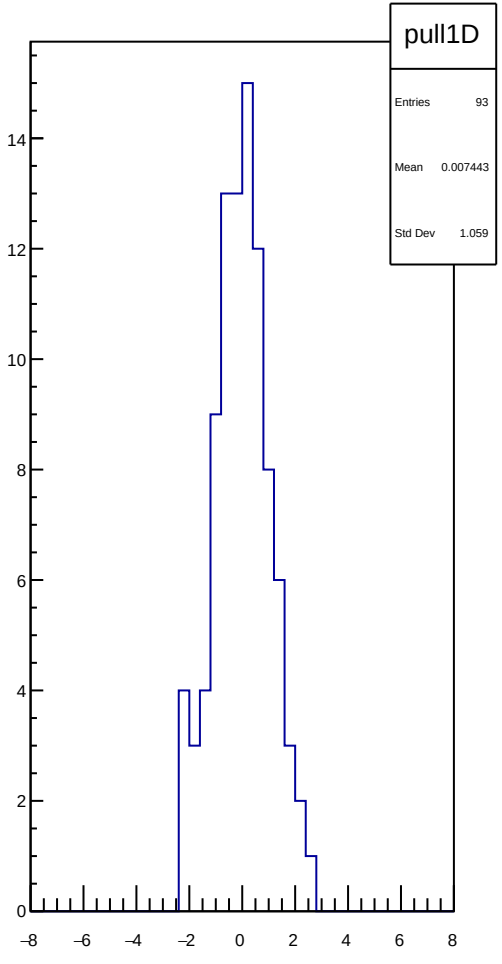

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 105.4 / 92
p0 −3018 ± 1432
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −16.49
Std Dev 82.2
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.009051
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

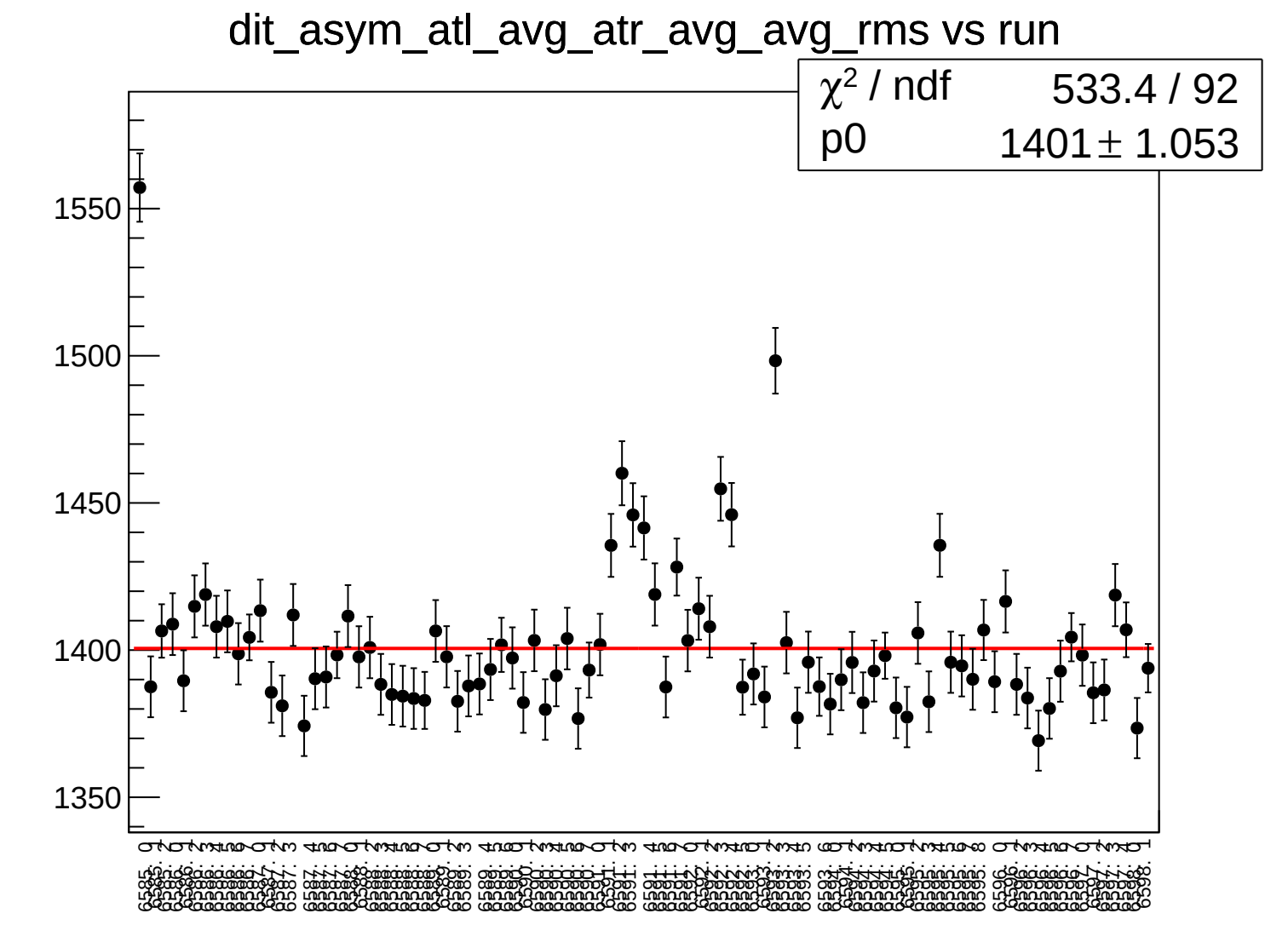

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 537.9 / 92
p0 1348 ± 1.013
1550
1500
1450
1400
1350
1300

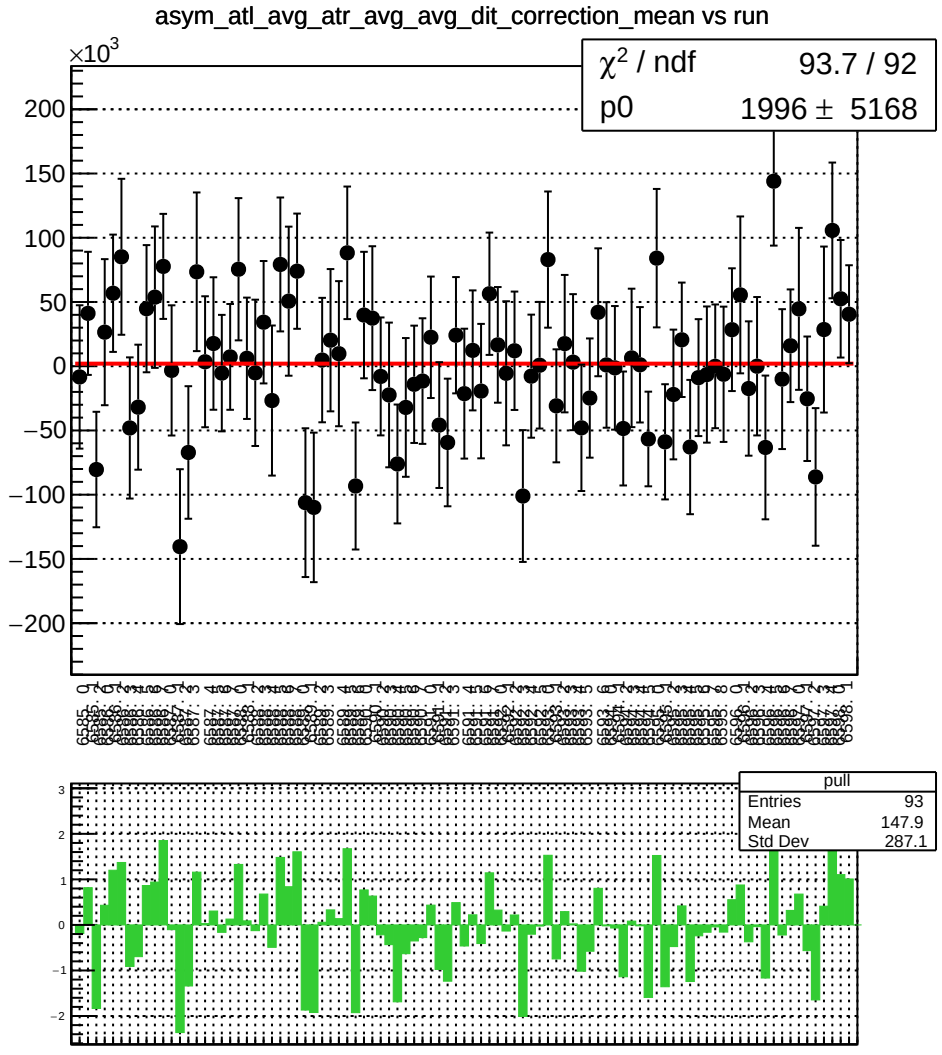

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.32 / 92
p0 2403 ± 4881
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 121.5
Std Dev 238.7
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001851
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

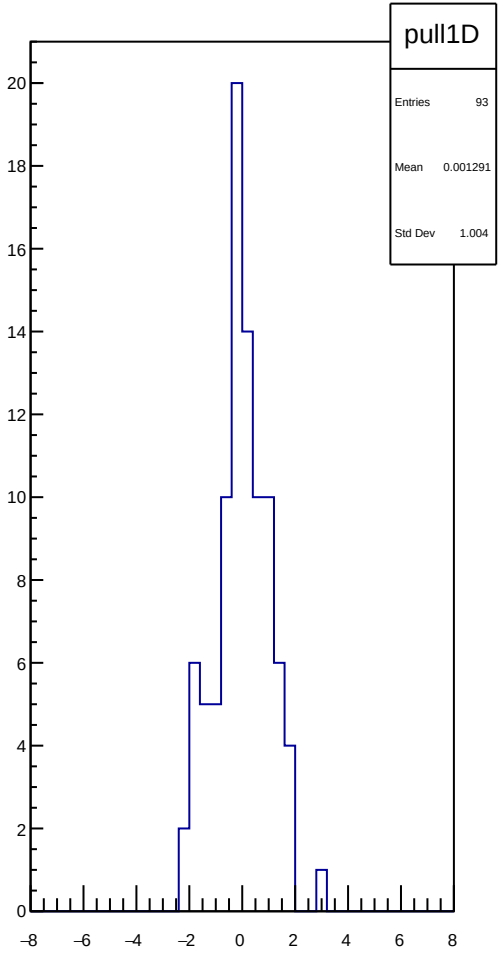

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.498e+04 / 92
p0 4573 ± 3.451
6000
5500
5000
4500
4000

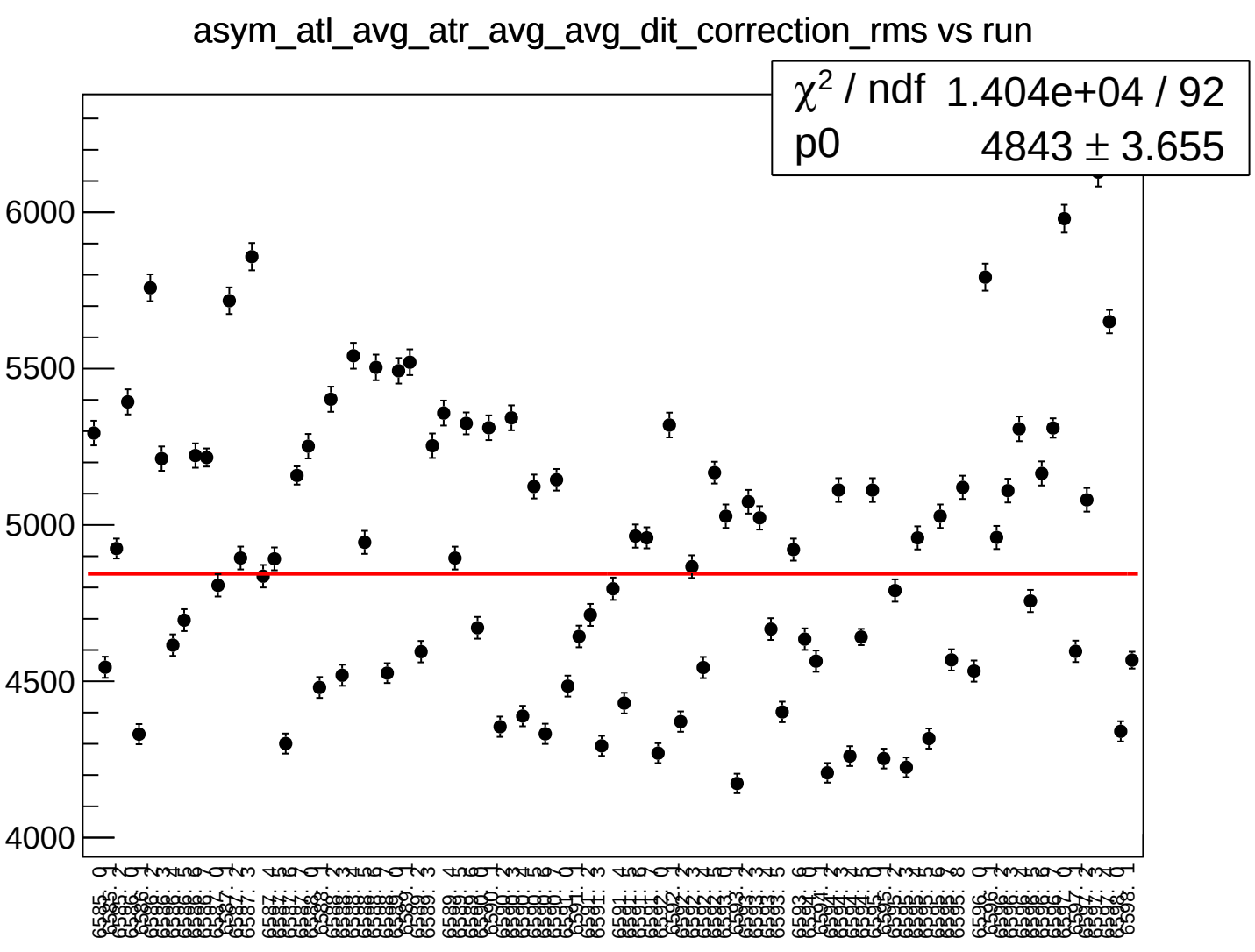

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 104.4 / 92
p0 −3438 ± 1489
pull
Entries 93
Mean −37.11
Std Dev 106

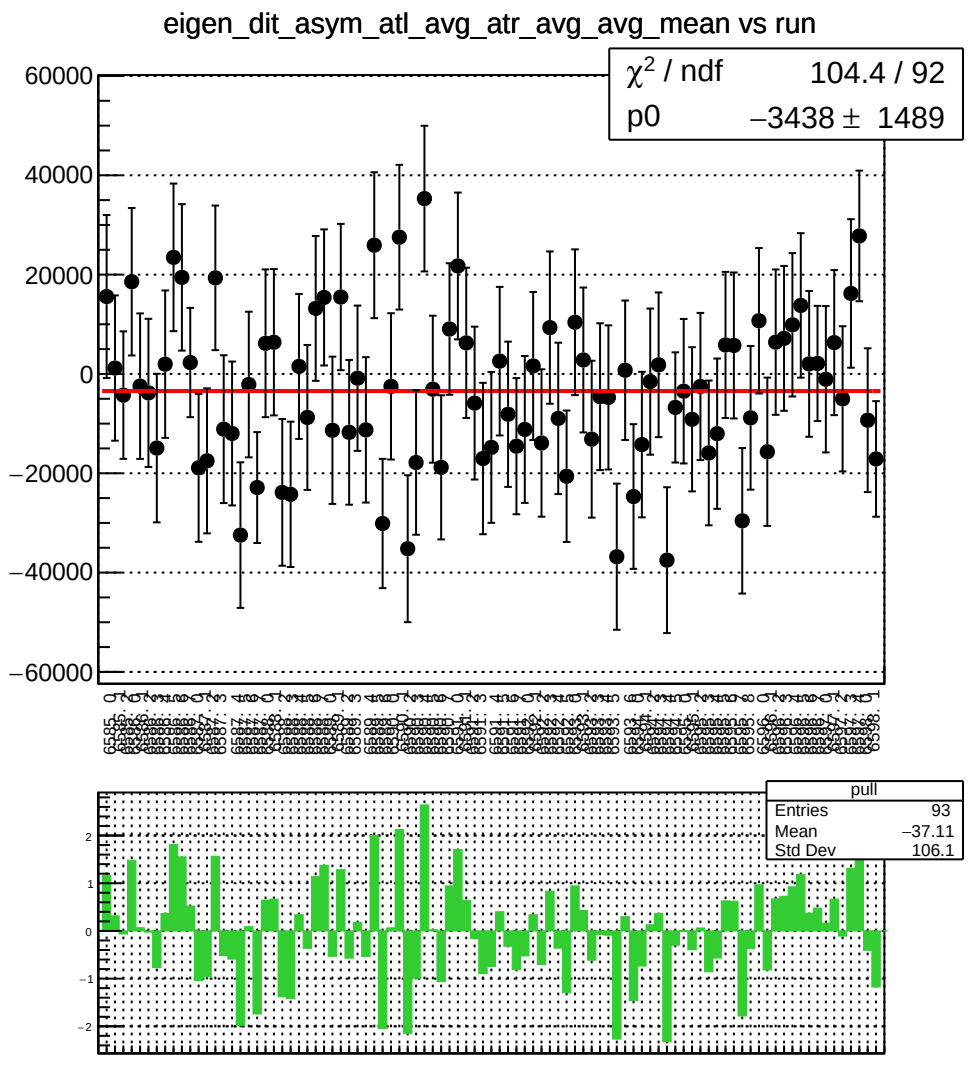

pull1D
Entries 93
Mean 0.007443
Std Dev 1.059

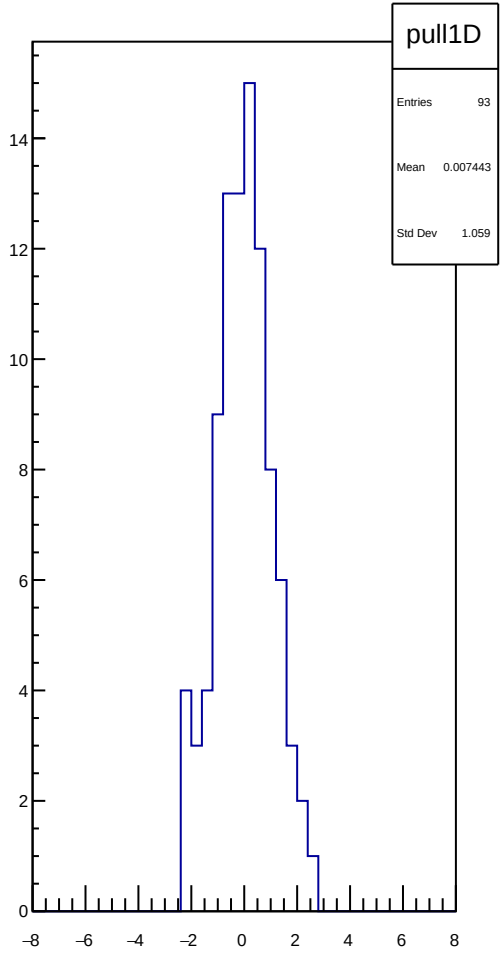

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 533.4 / 92
p0 1401 ± 1.053
1550
1500
1450
1400
1350

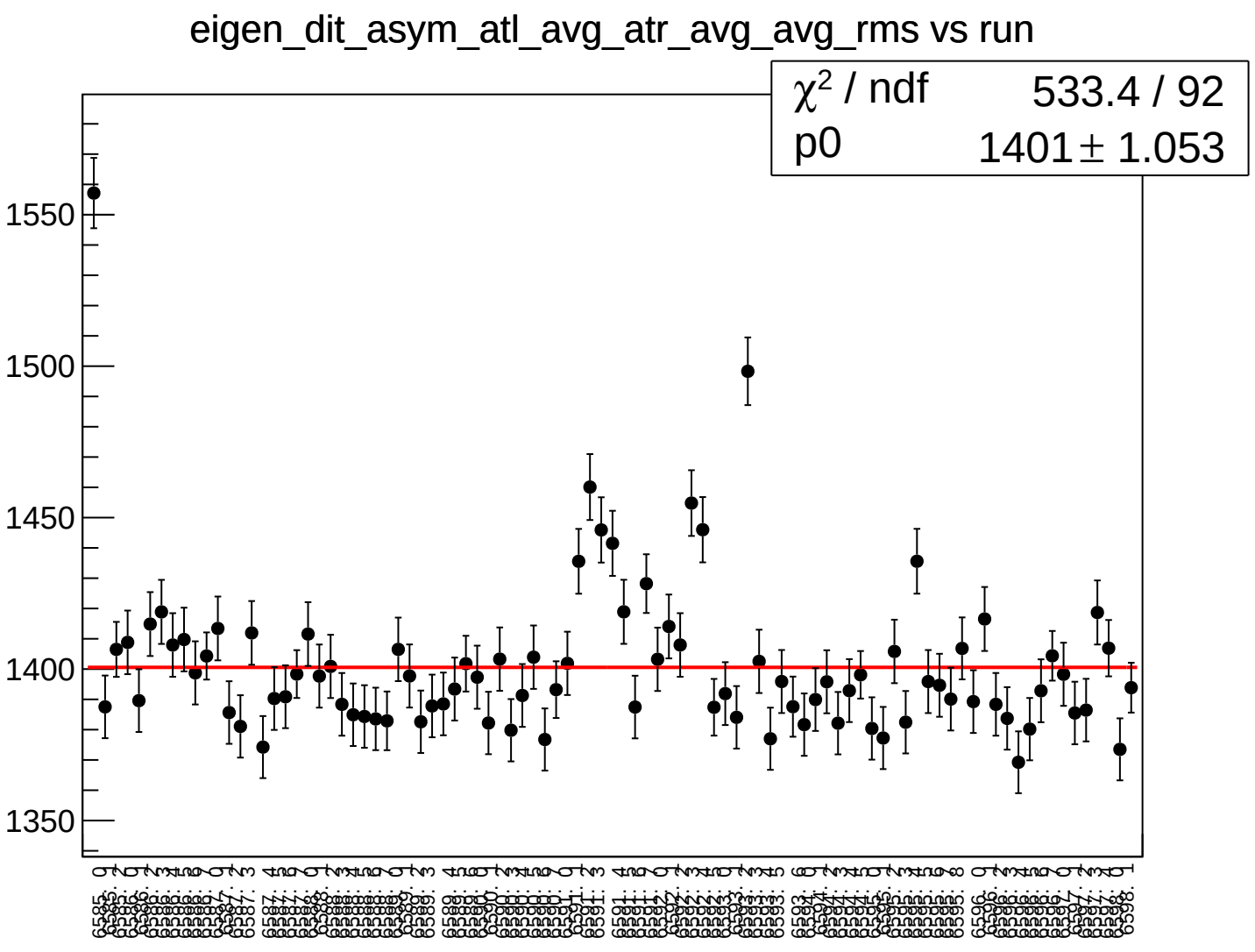

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 93.7 / 92
p0 1996 ± 5168
pull
Entries 93
Mean 147.9
Std Dev 287.1

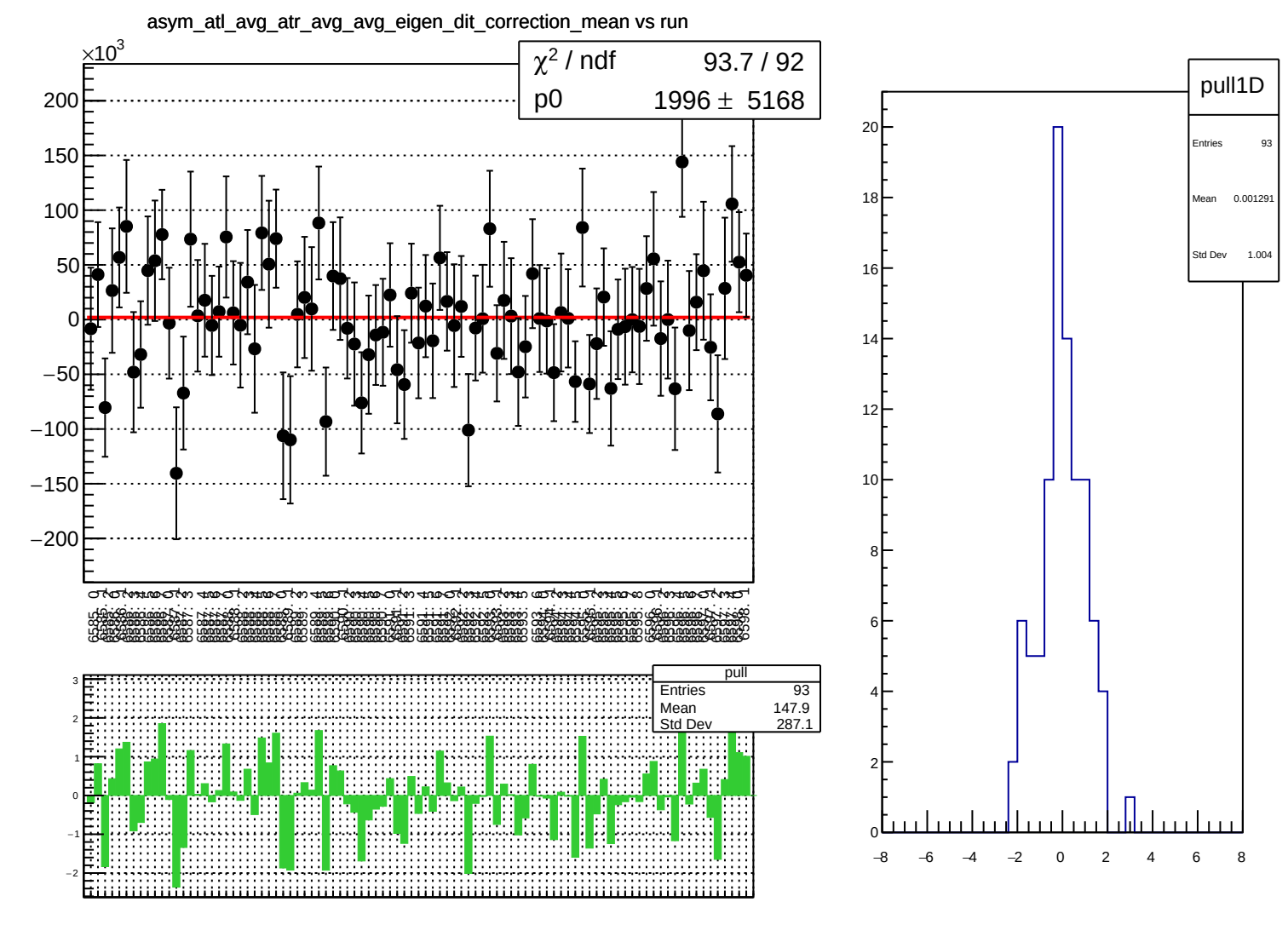

pull1D
Entries 93
Mean 0.001291
Std Dev 1.004

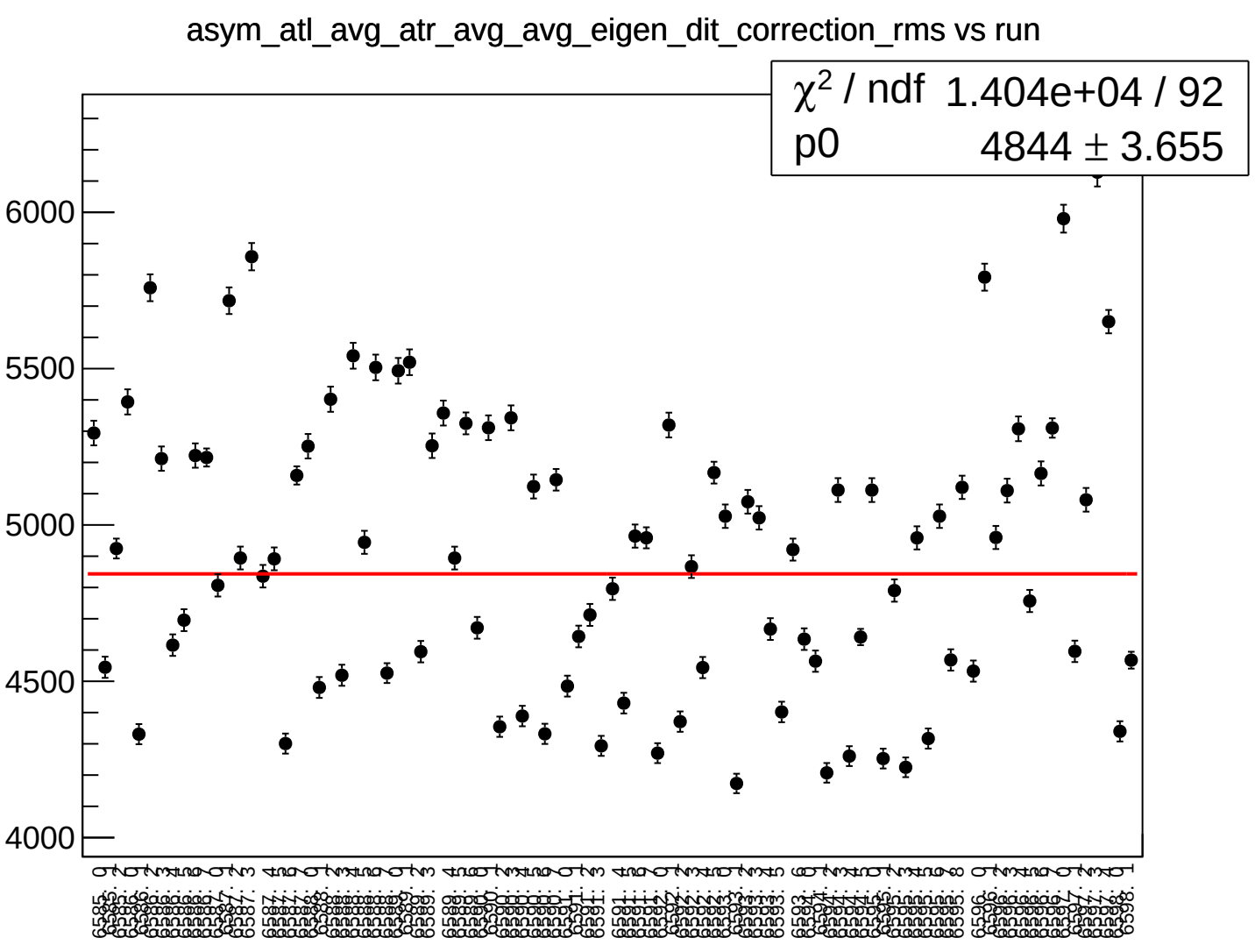

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.404e+04 / 92
p0 4843 ± 3.655
6000
5500
5000
4500
4000

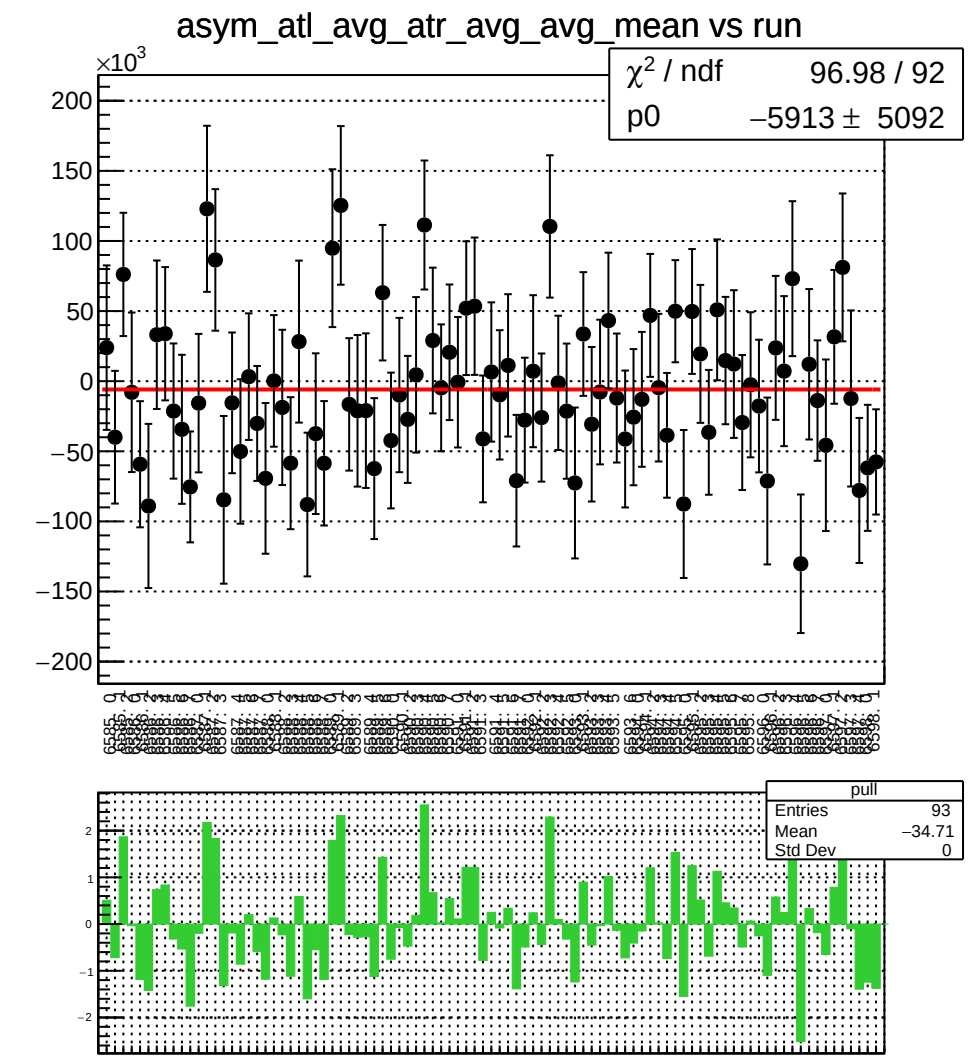

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 104.4 / 92
p0 −3438 ± 1489
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −37.11
Std Dev 106.1
2
1
0
−1
−2

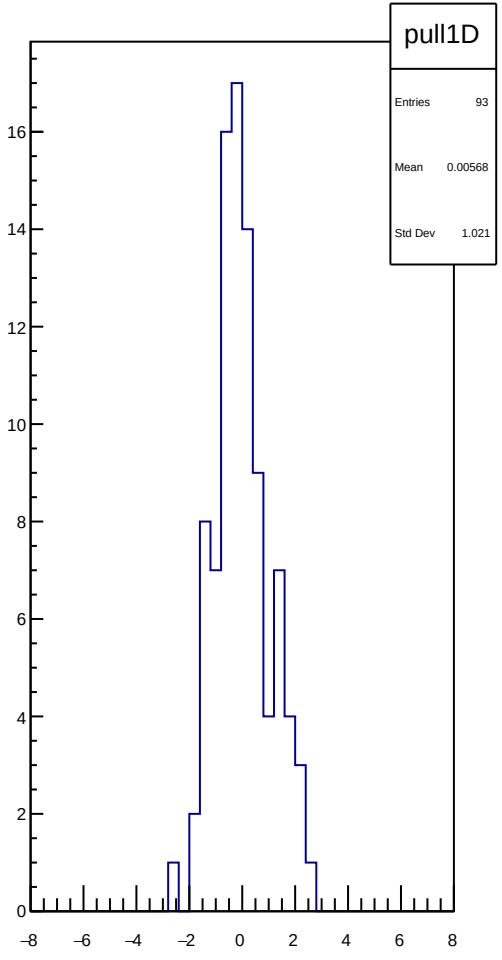

pull1D
Entries 93
Mean 0.007443
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

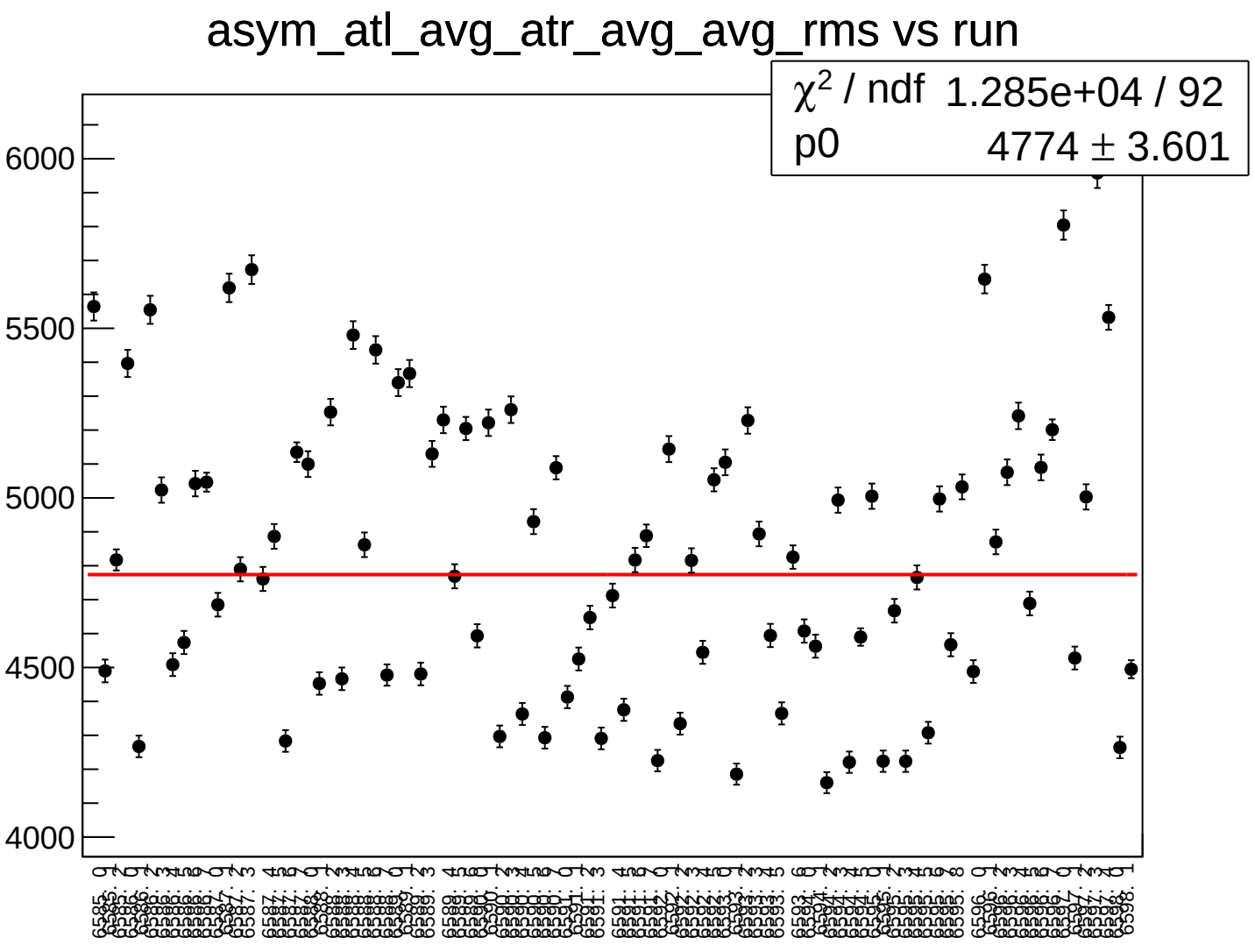

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 533.4 / 92
p0 1401 ± 1.053
1550
1500
1450
1400
1350

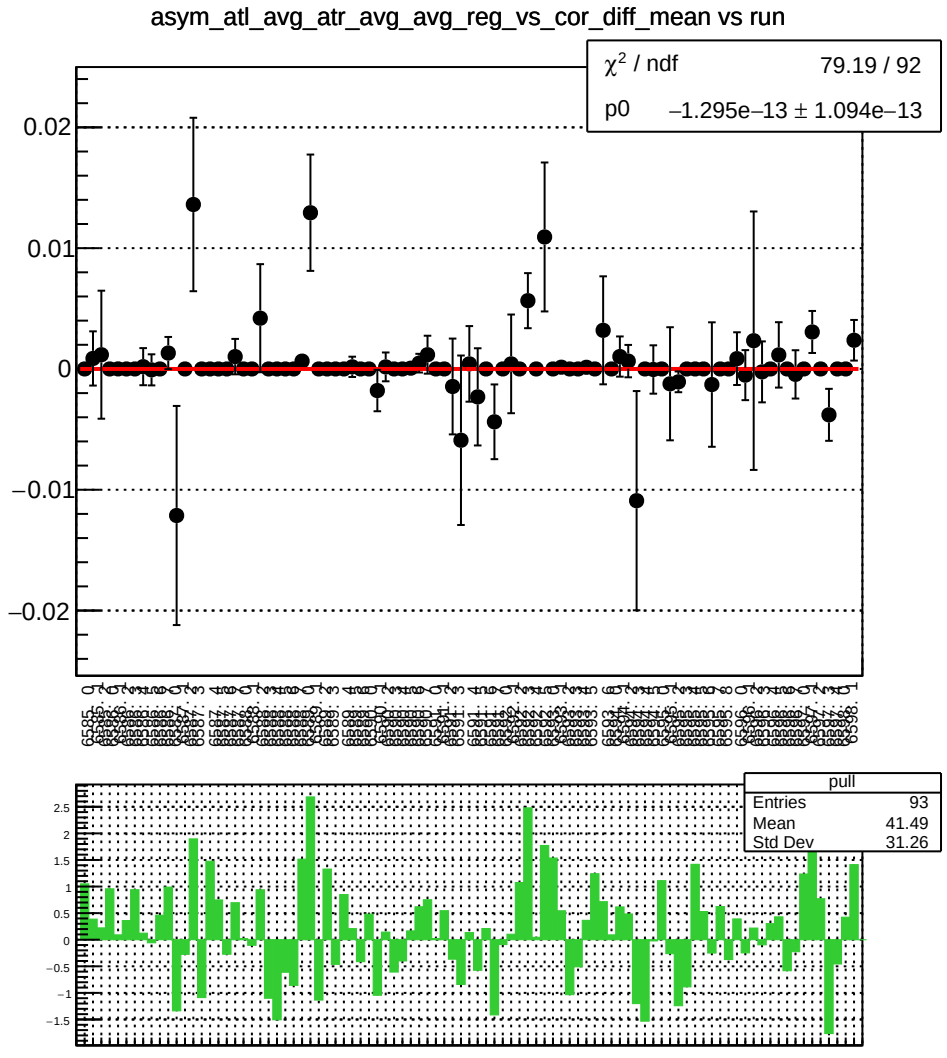

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.7 / 92
p0 1996 ± 5168
pull
Entries 93
Mean 147.9
Std Dev 287.1
pull1D
Entries 93
Mean 0.001291
Std Dev 1.004

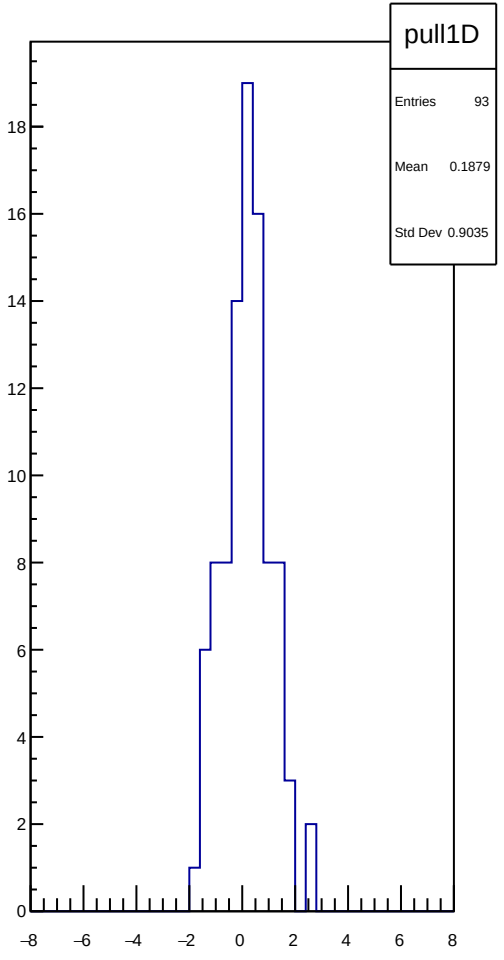

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.404e+04 / 92
p0 4844 ± 3.655
6000
5500
5000
4500
4000

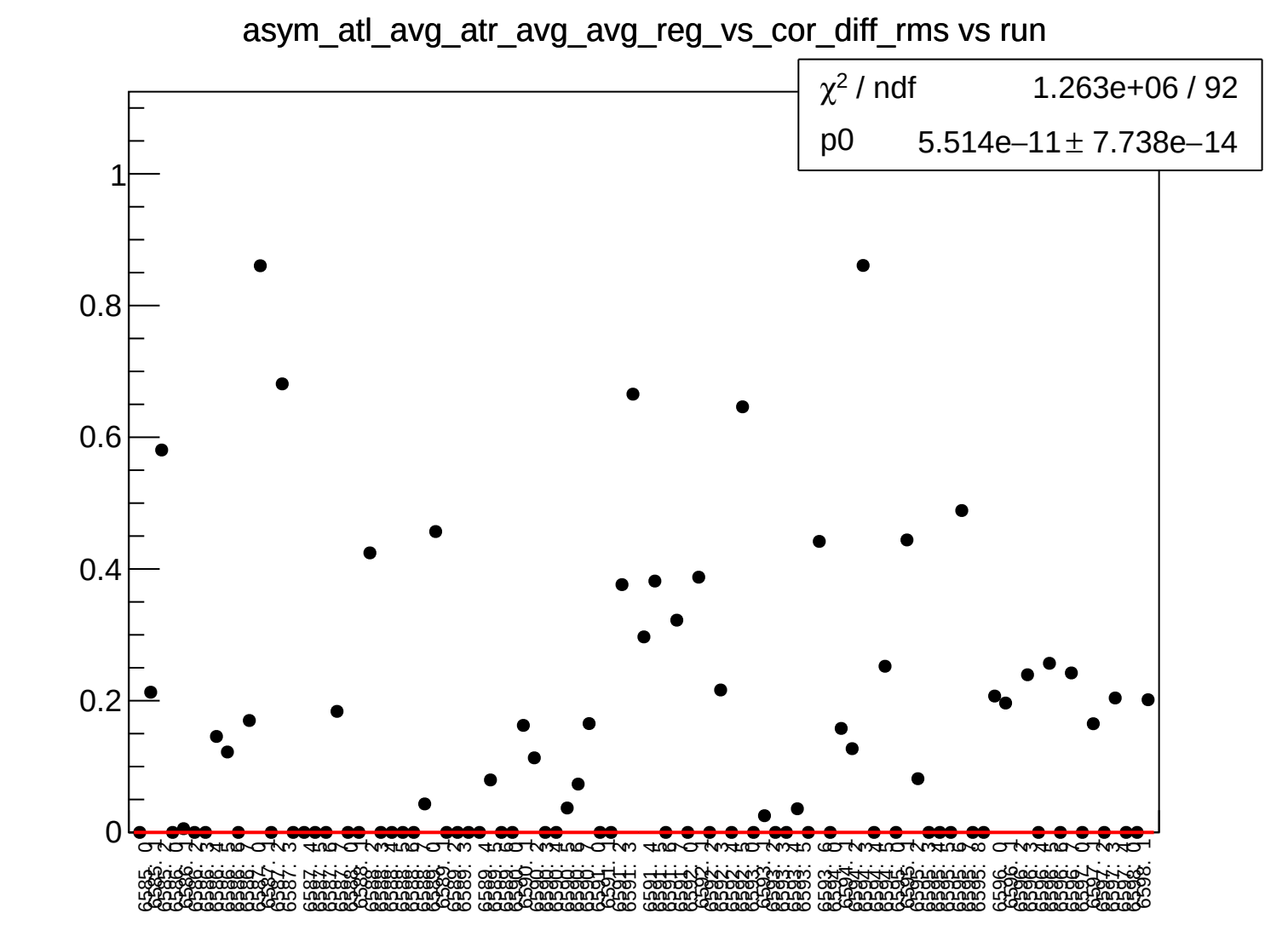

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 96.98 / 92
p0 −5913 ± 5092
pull
Entries 93
Mean −34.71
Std Dev 0

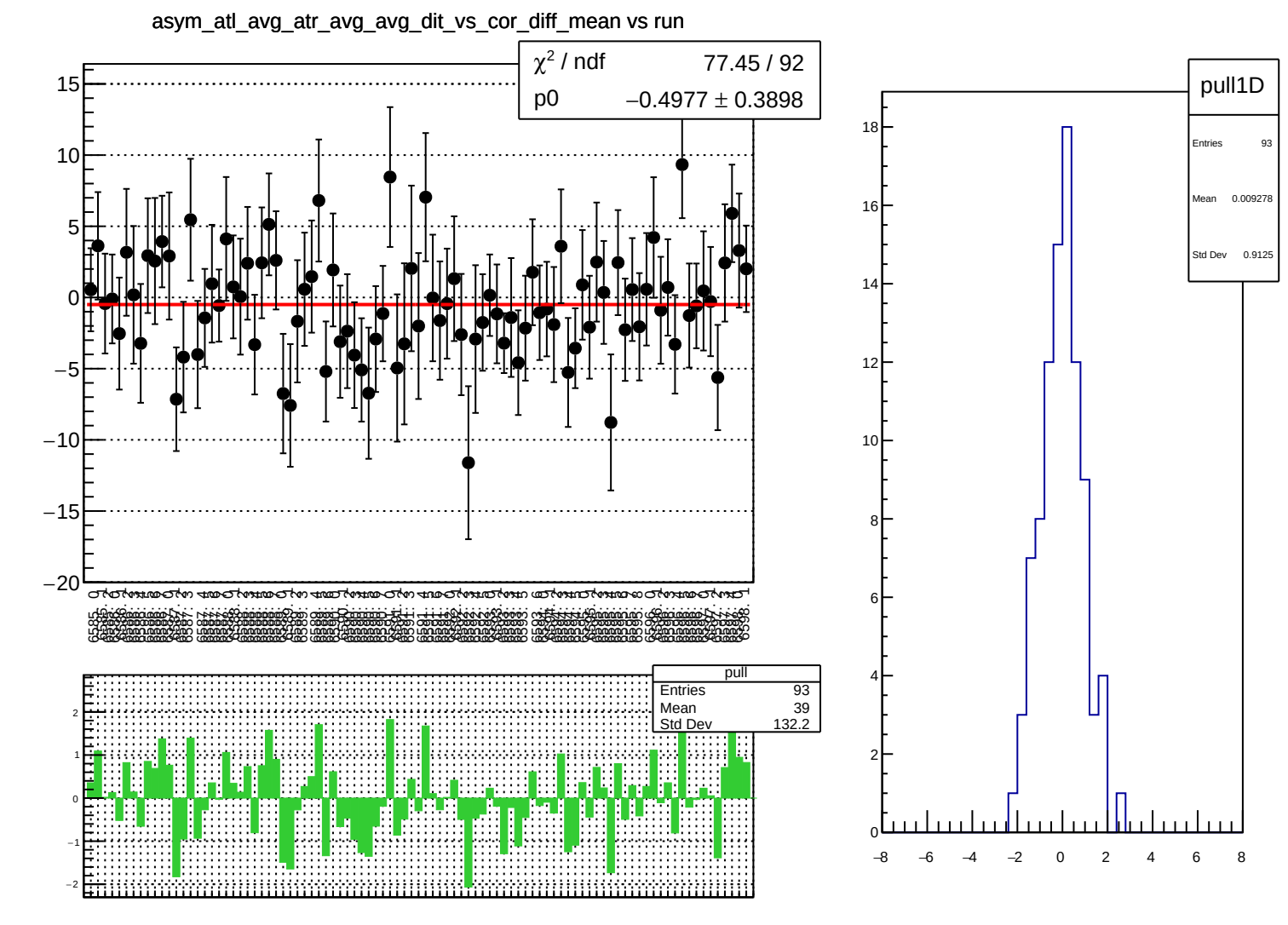

pull1D
Entries 93
Mean 0.00568
Std Dev 1.021

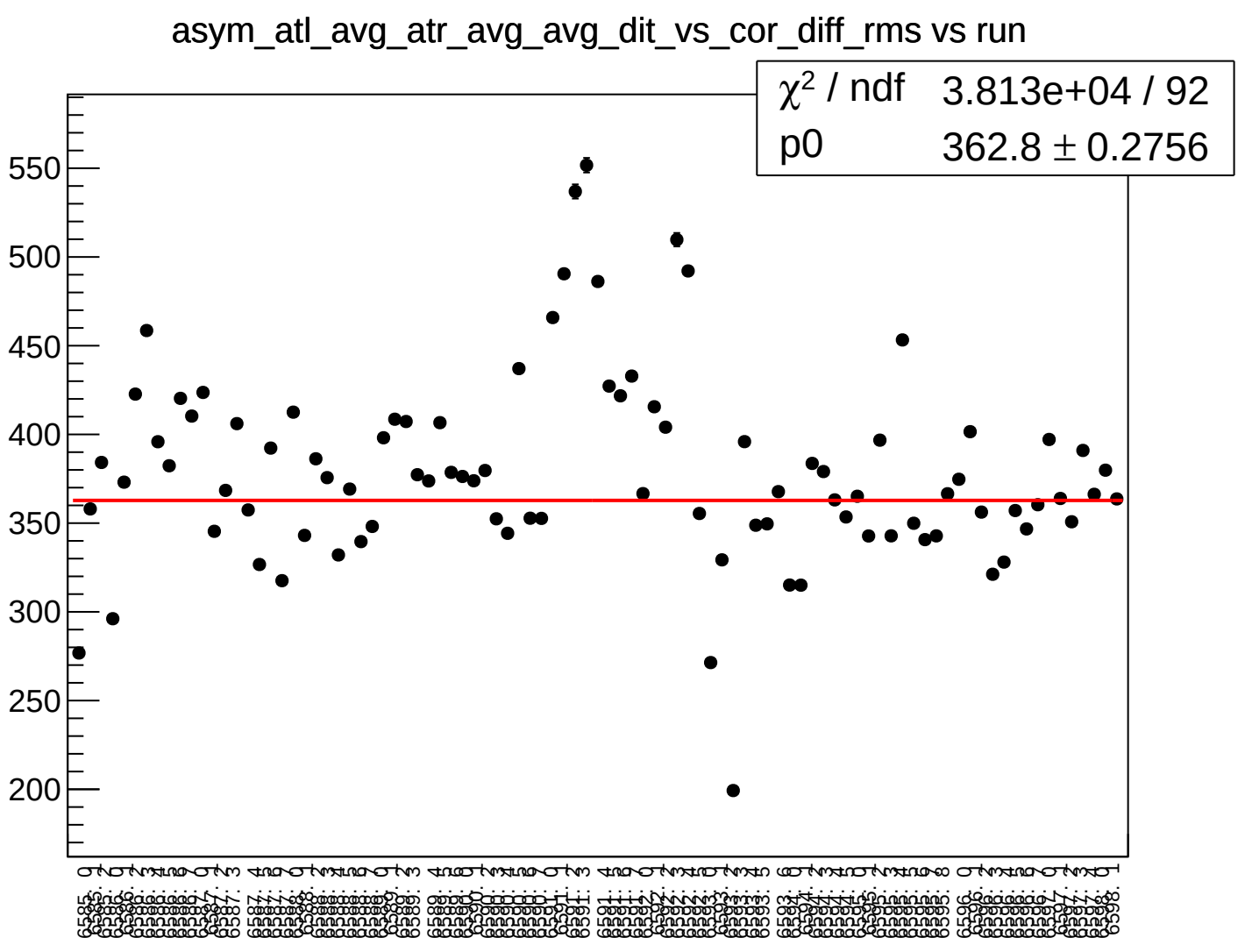

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.285e+04 / 92
p0 4774 ± 3.601
6000
5500
5000
4500
4000

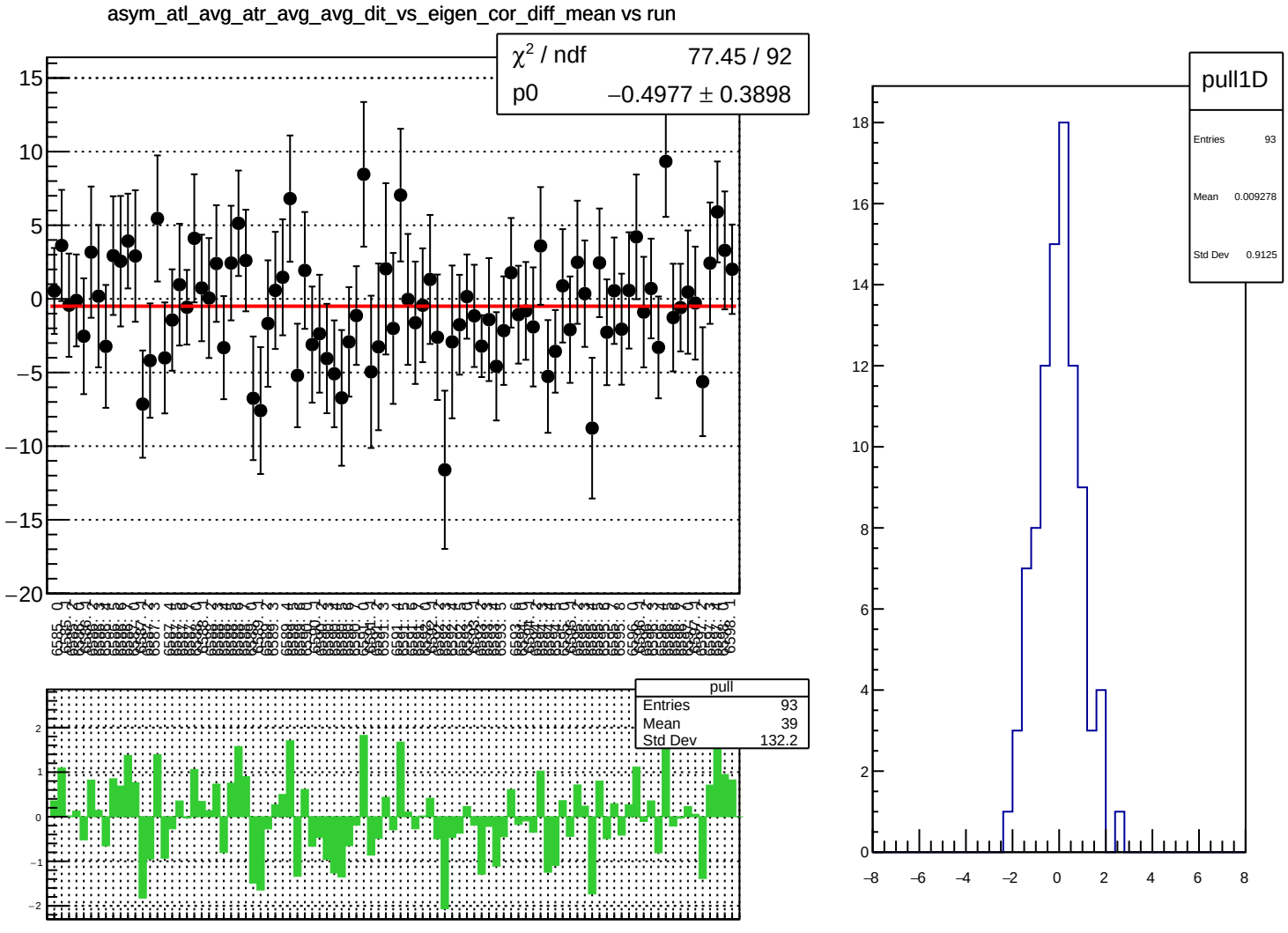

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.19 / 92
p0 −1.295e−13 ± 1.094e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 41.49
Std Dev 31.26
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

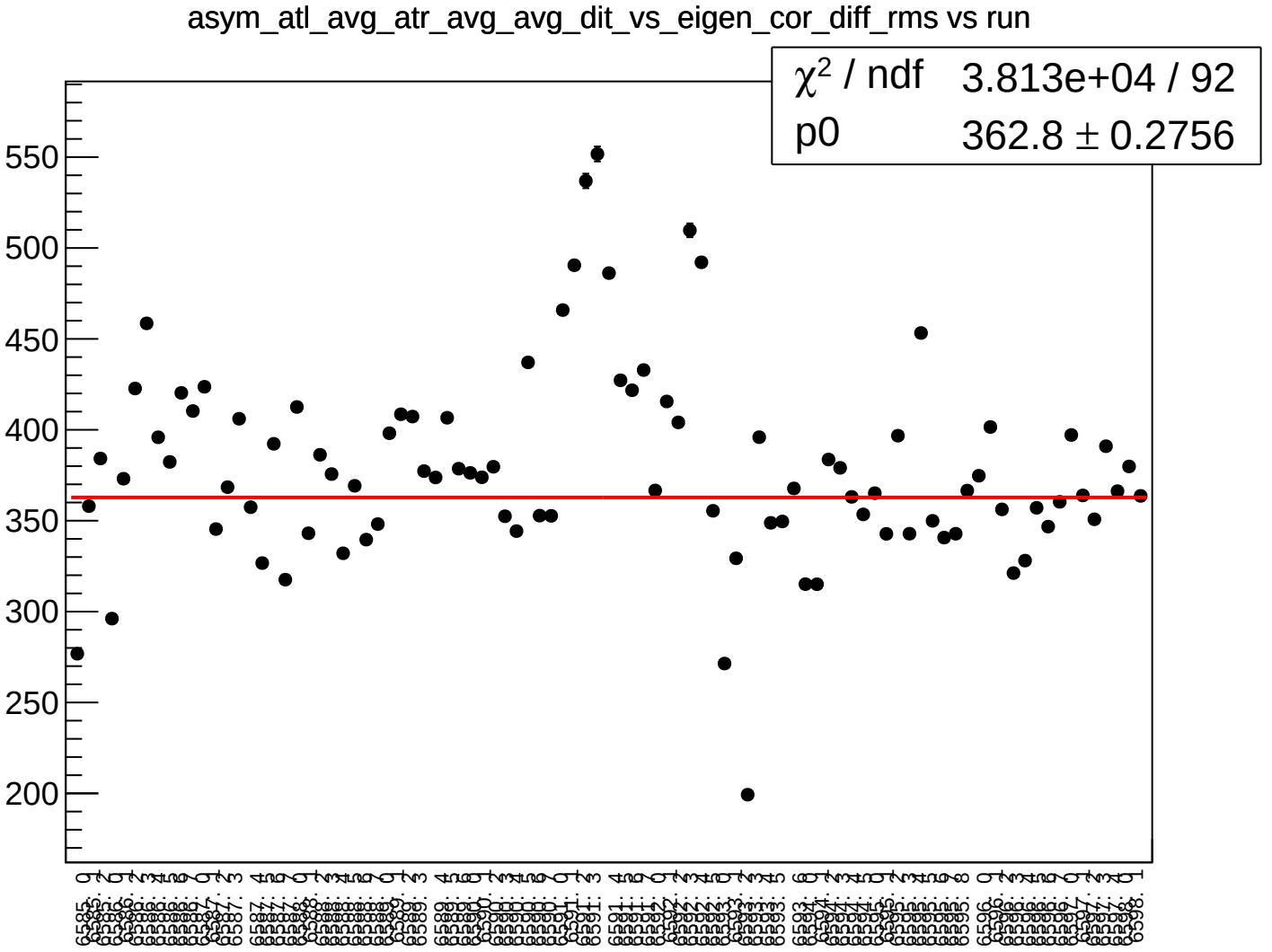

pull1D
Entries 93
Mean 0.1879
Std Dev 0.9035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

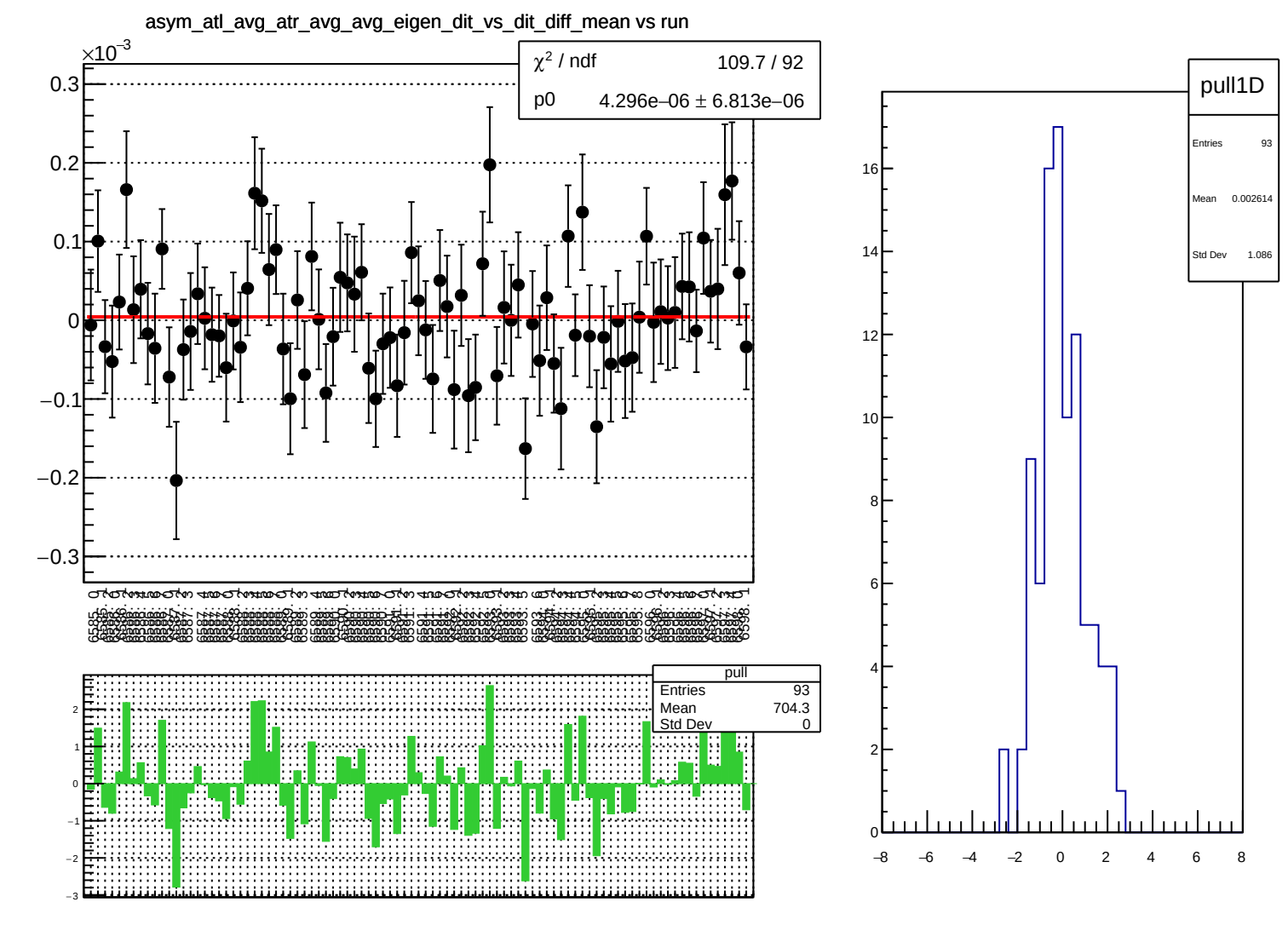

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.263e+06 / 92
p0 5.514e−11 ± 7.738e−14
1
0.8
0.6
0.4
0.2
0

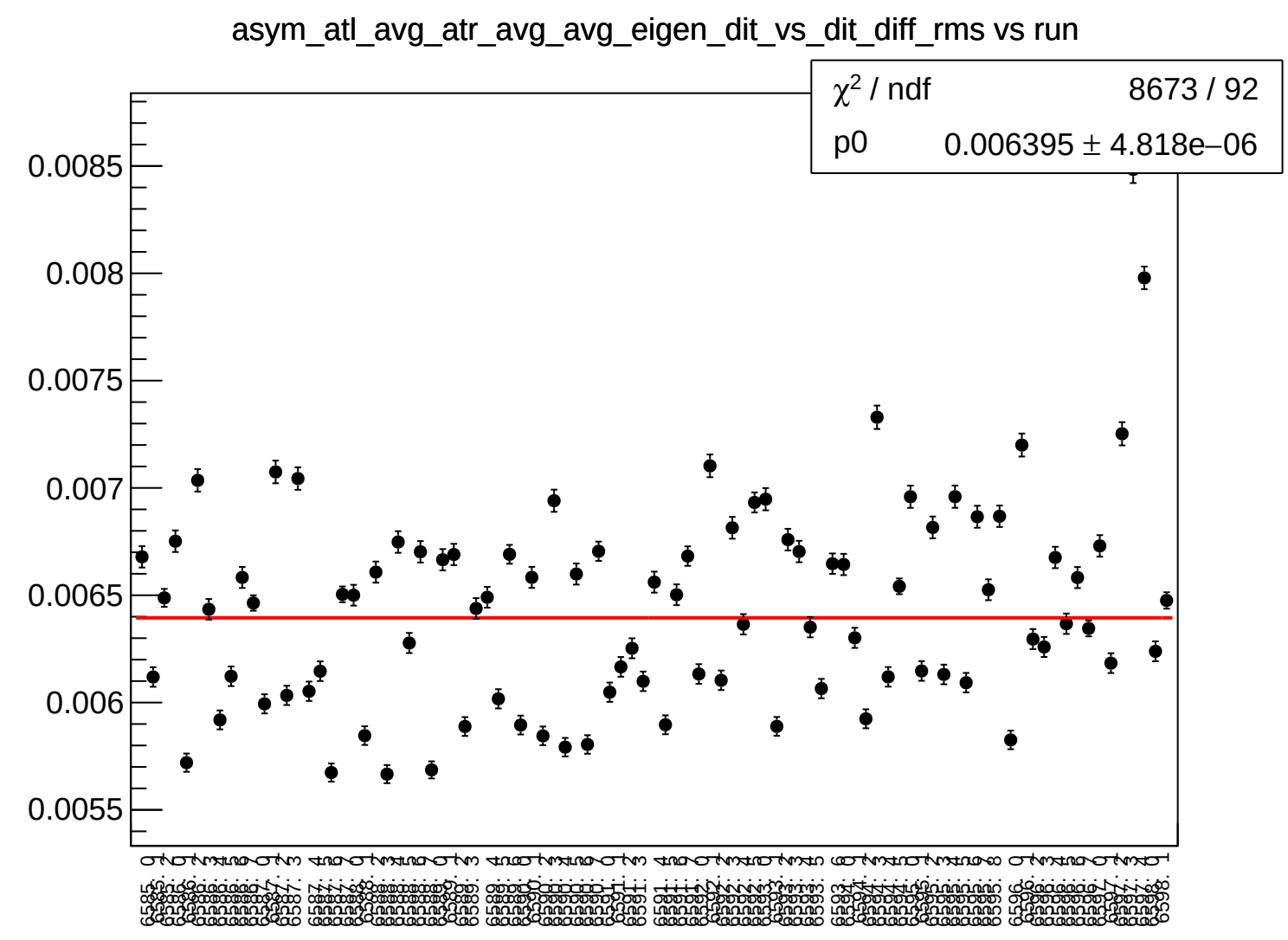

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.45 / 92
p0 −0.4977 ± 0.3898
pull
Entries 93
Mean 39
Std Dev 132.2
pull1D
Entries 93
Mean 0.009278
Std Dev 0.9125

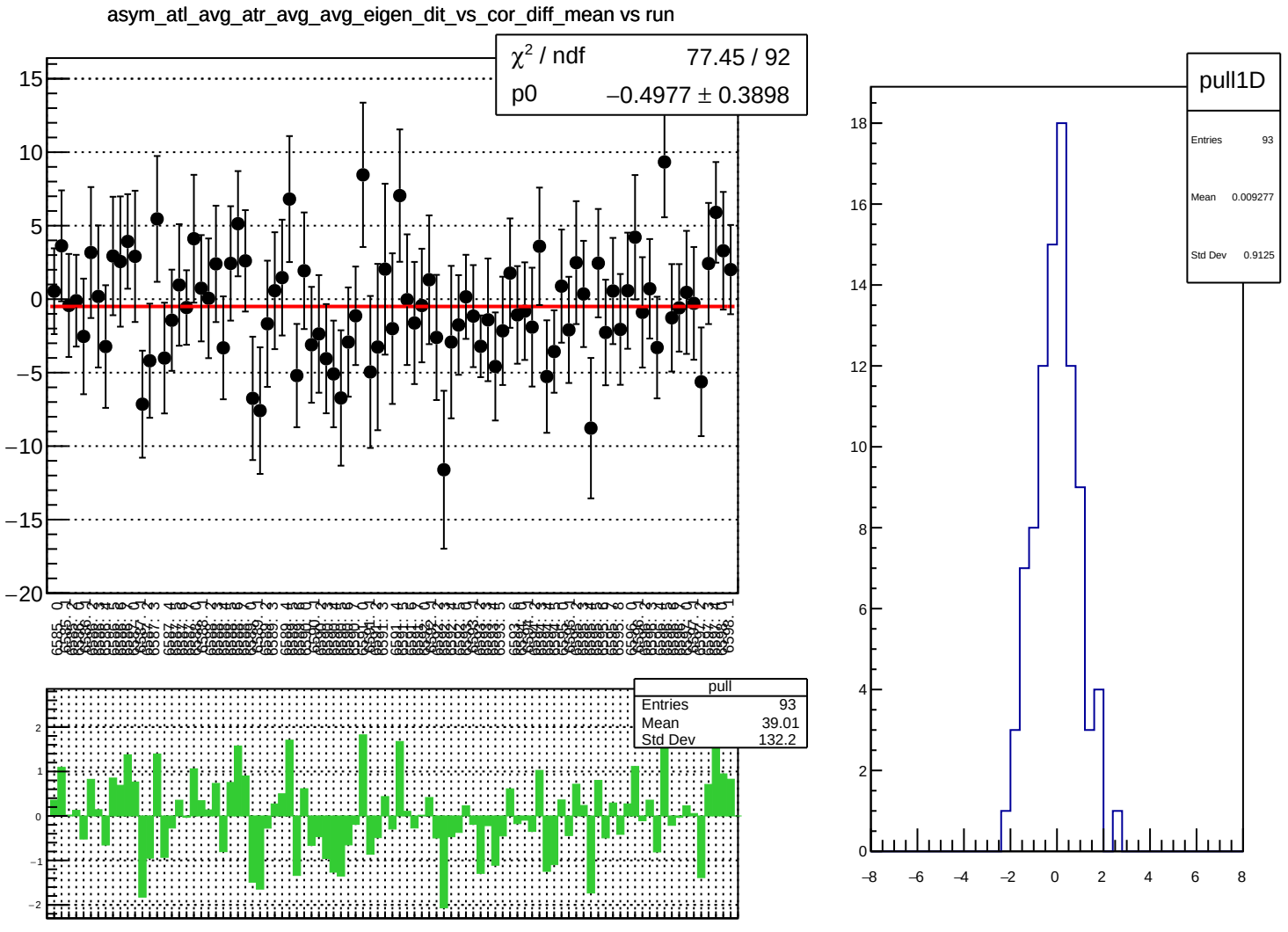

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.813e+04 / 92
p0 362.8 ± 0.2756
550
500
450
400
350
300
250
200

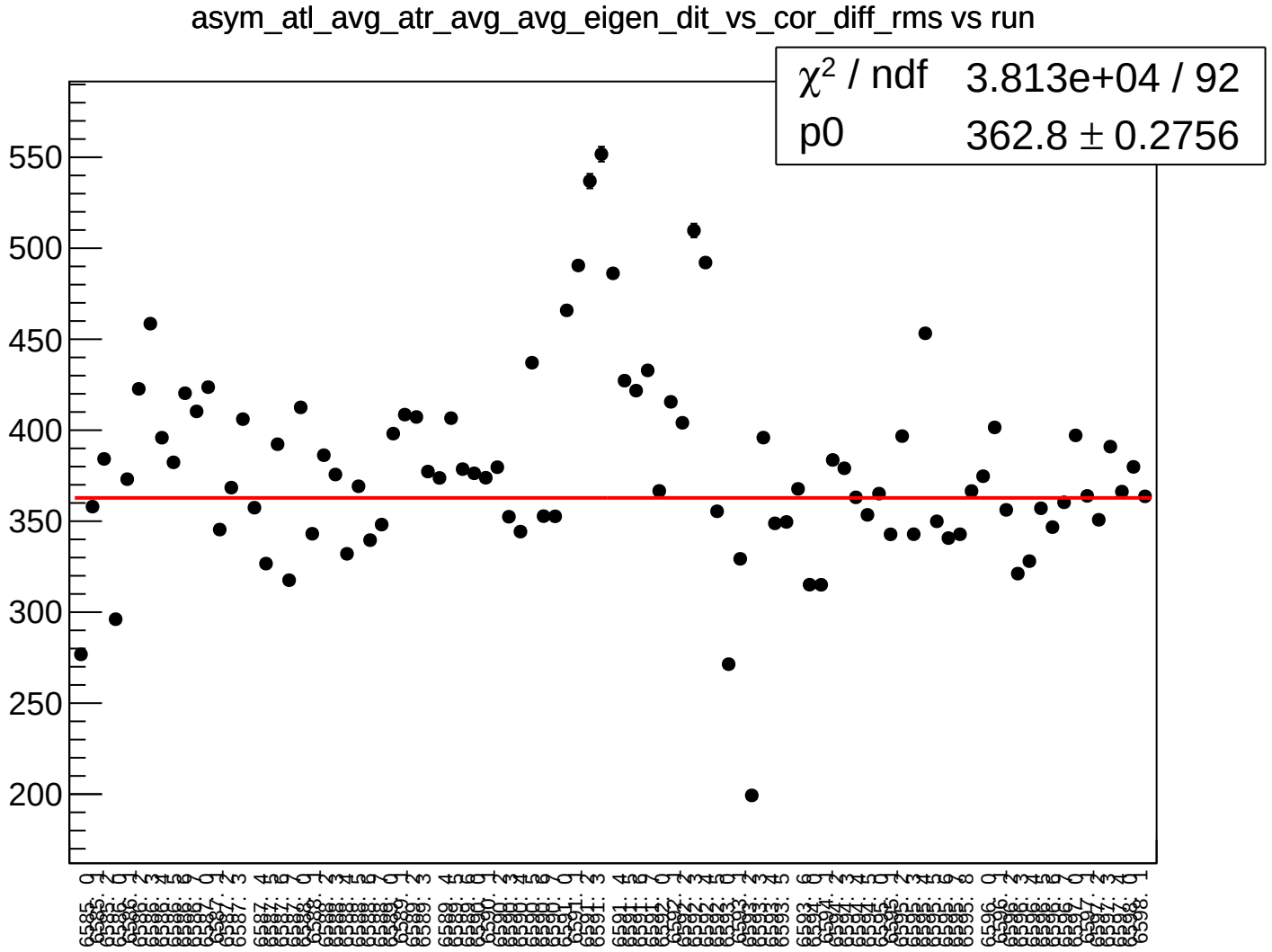

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.45 / 92
p0 −0.4977 ± 0.3898
pull
Entries 93
Mean 39
Std Dev 132.2
pull1D
Entries 93
Mean 0.009278
Std Dev 0.9125

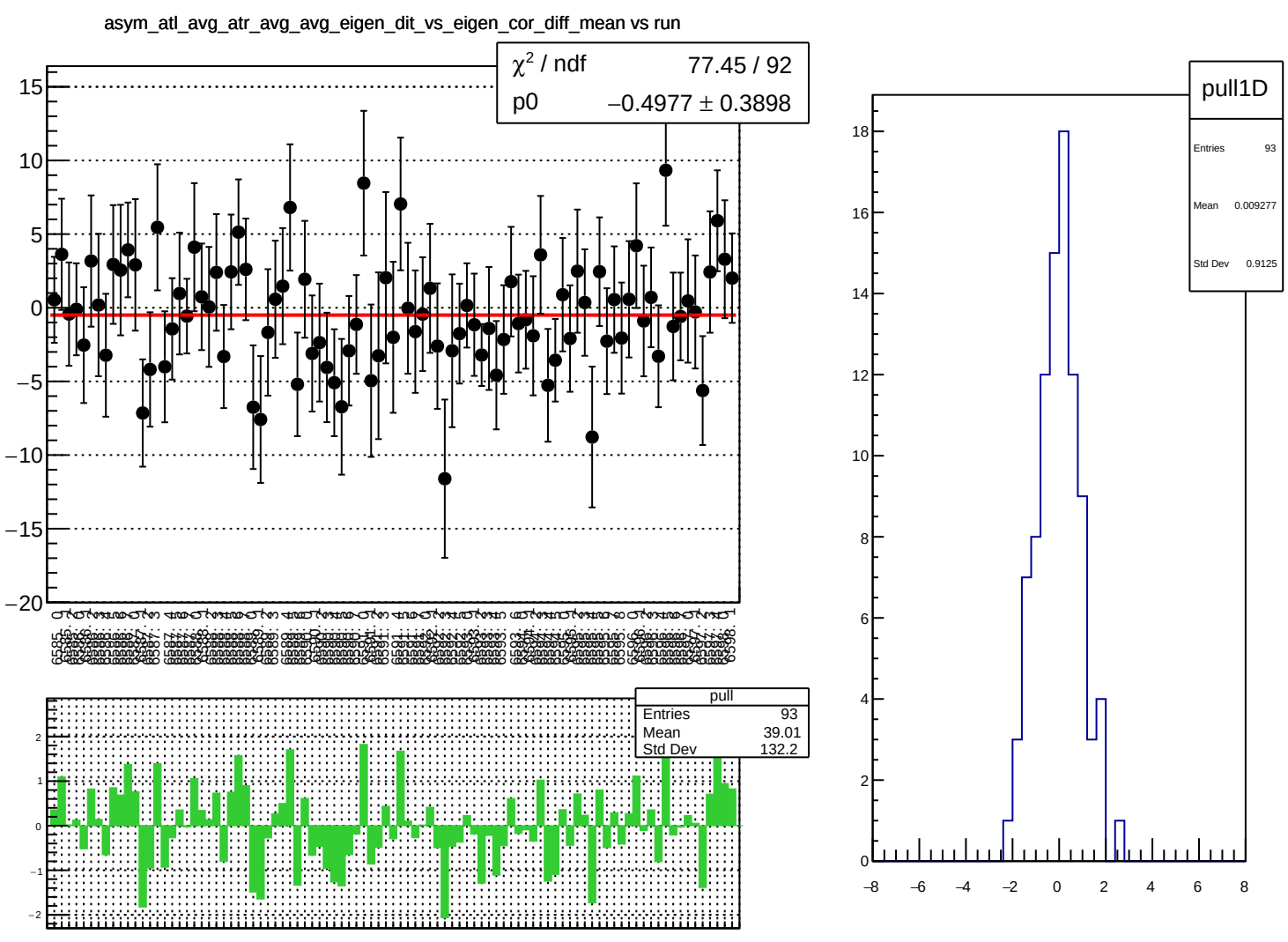

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.813e+04 / 92
p0 362.8 ± 0.2756
550
500
450
400
350
300
250
200

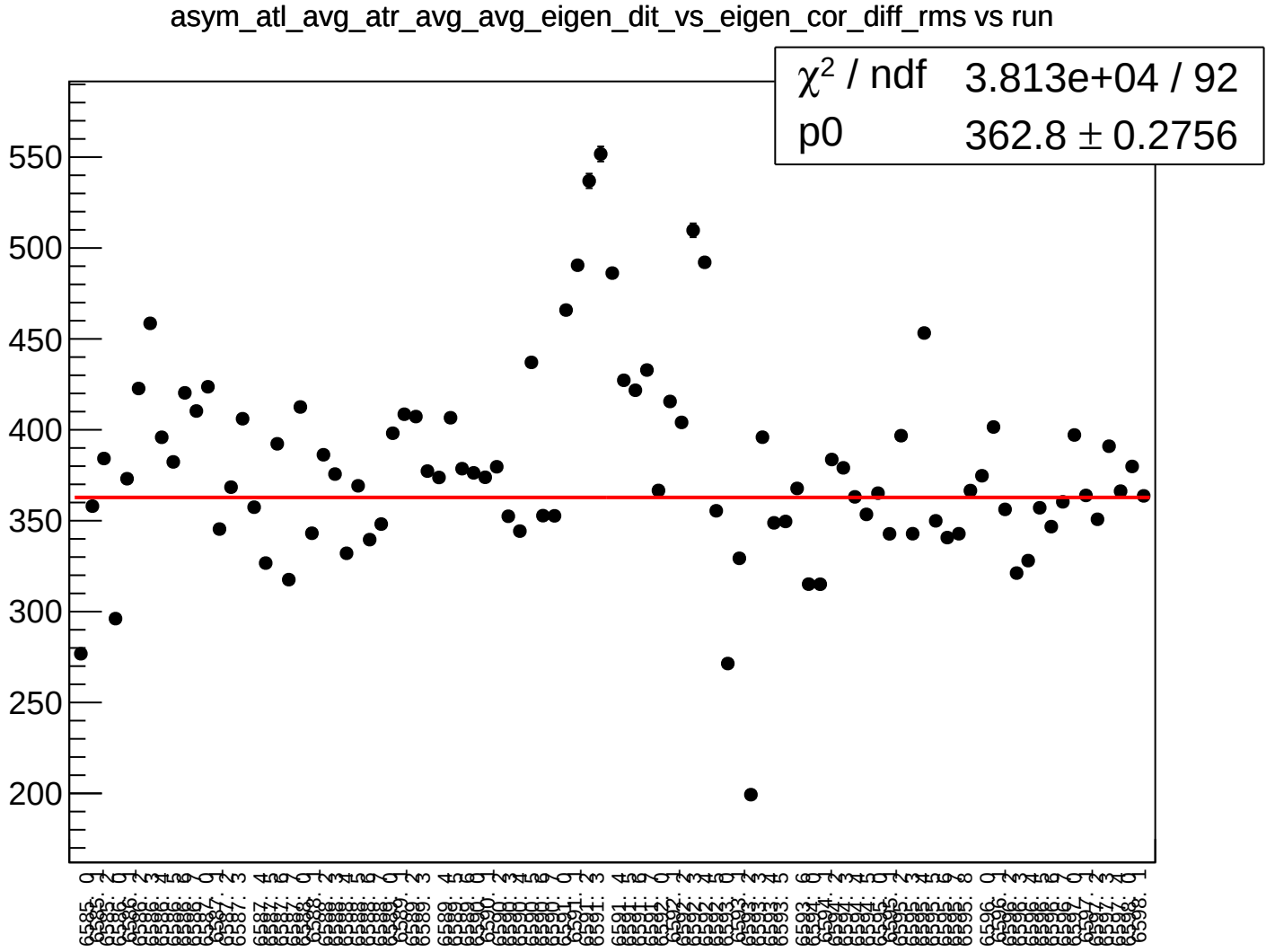

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.7 / 92
p0 4.296e−06 ± 6.813e−06
pull
Entries 93
Mean 704.3
Std Dev 0
pull1D
Entries 93
Mean 0.002614
Std Dev 1.086

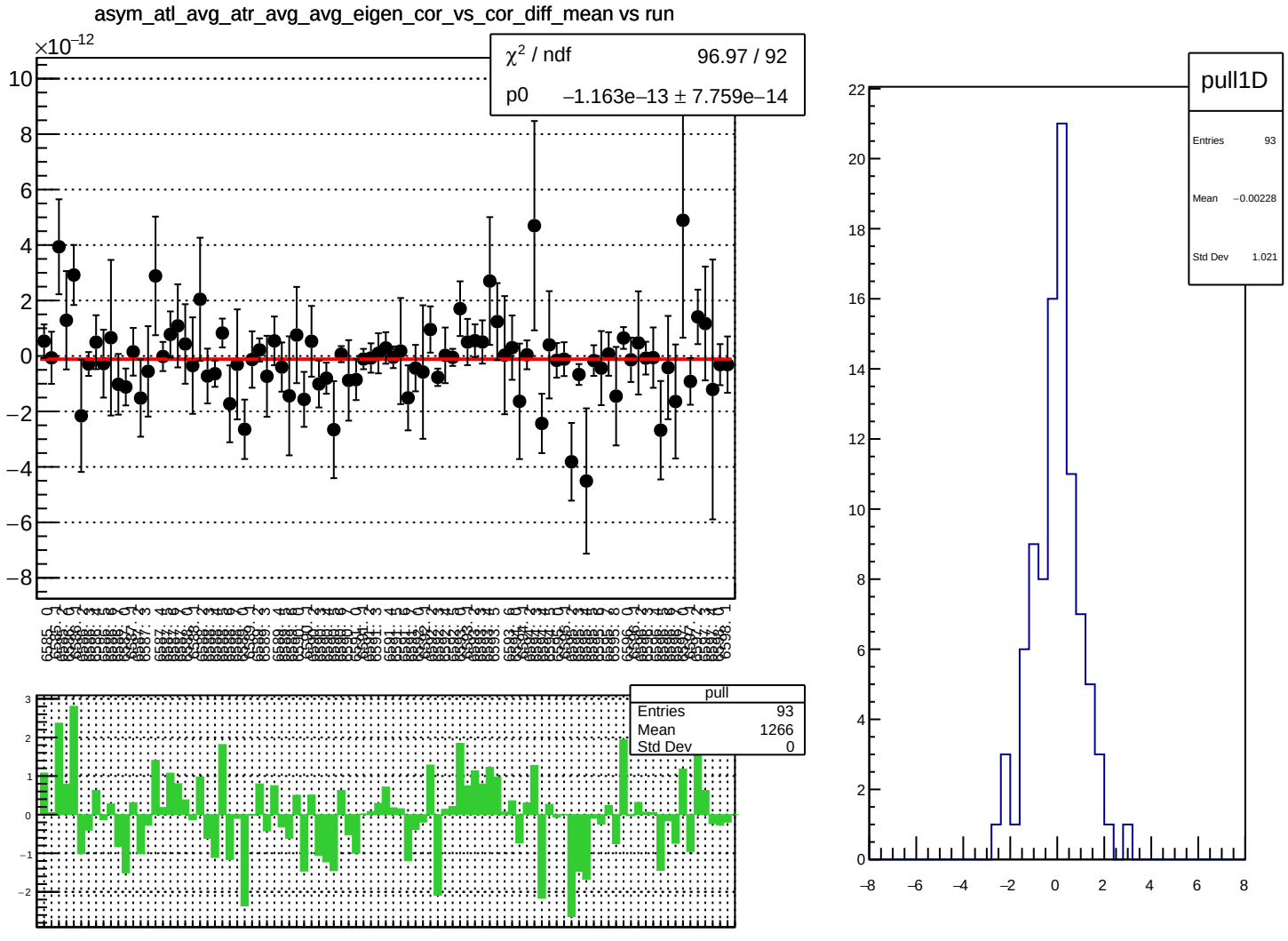

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8673 / 92
p0 0.006395 ± 4.818e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

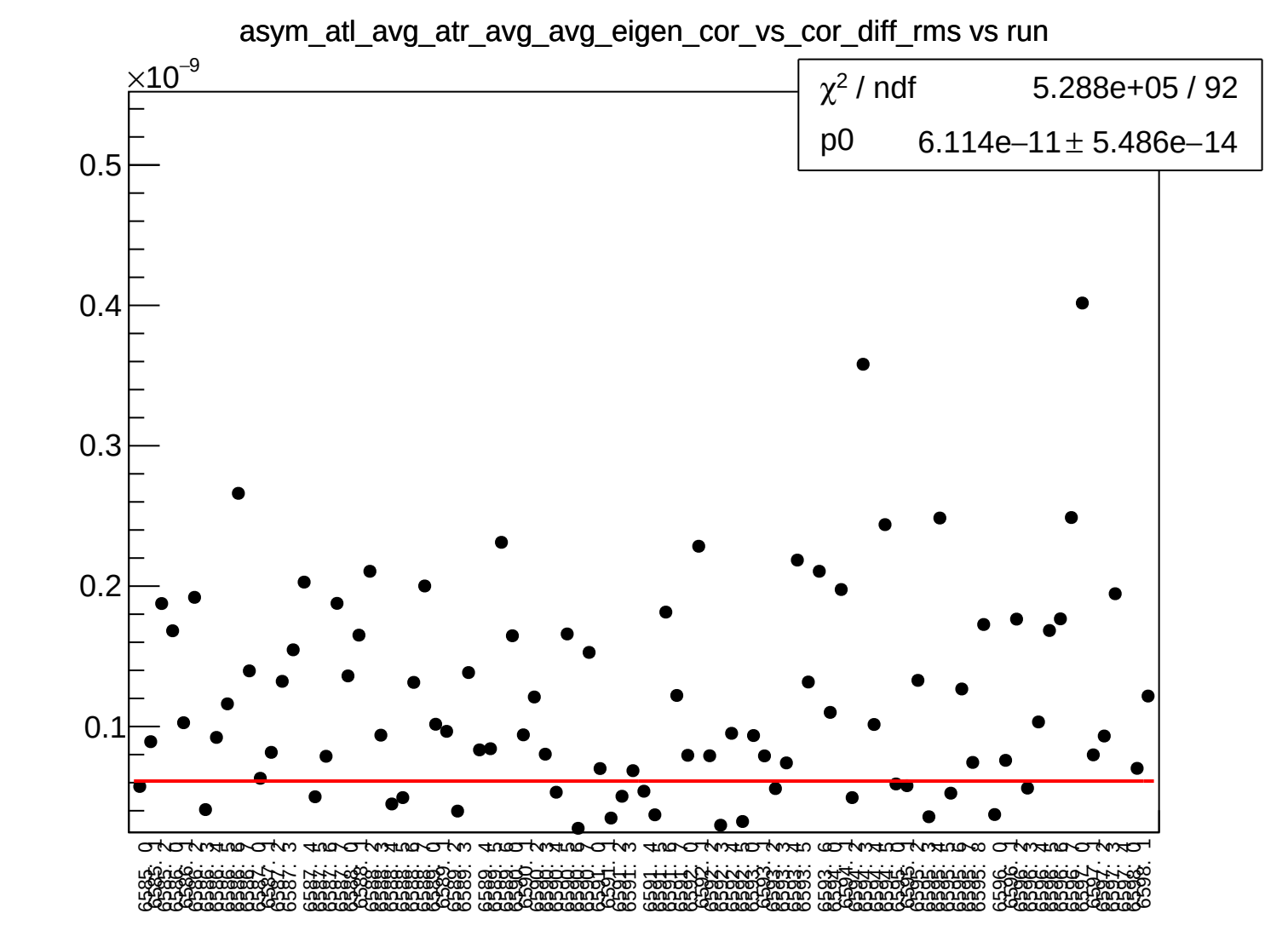

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.45 / 92
p0 −0.4977 ± 0.3898
pull
Entries 93
Mean 39.01
Std Dev 132.2
pull1D
Entries 93
Mean 0.009277
Std Dev 0.9125

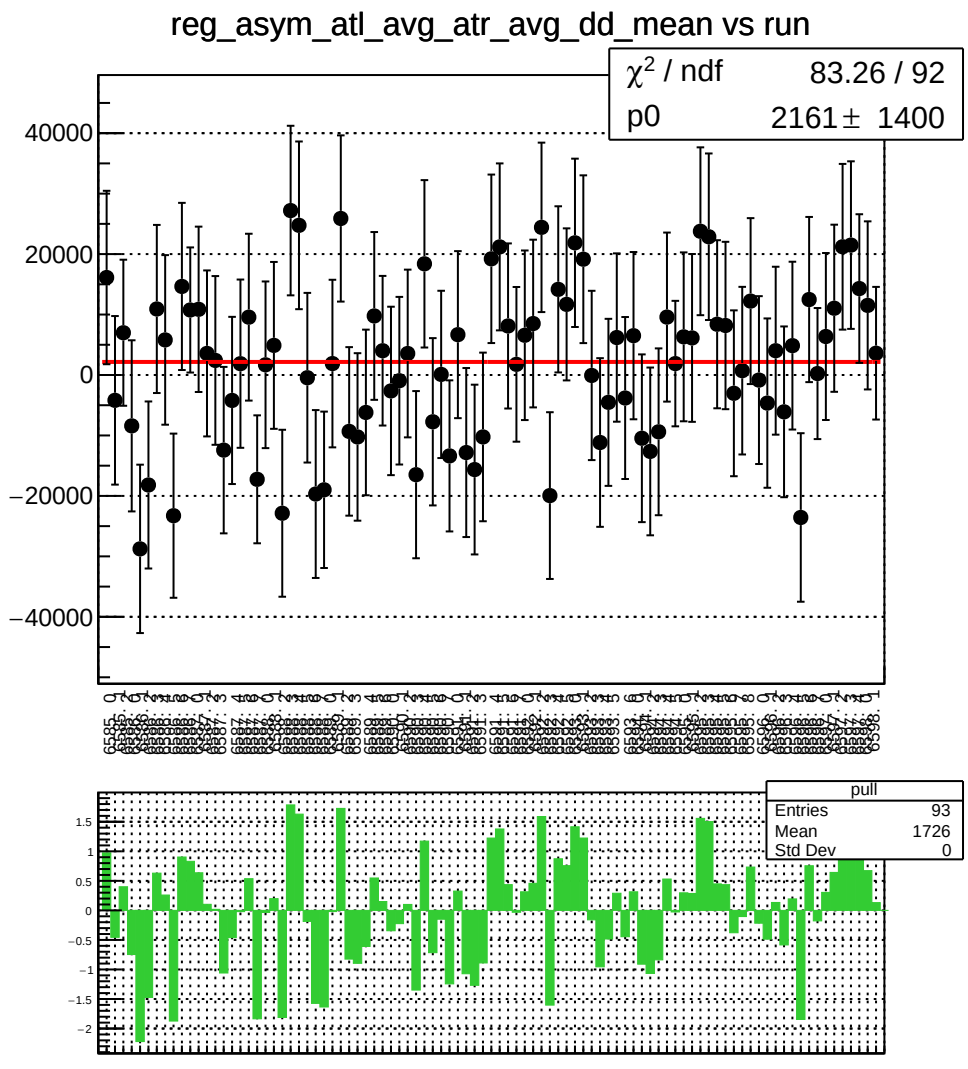

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.813e+04 / 92
p0 362.8 ± 0.2756
550
500
450
400
350
300
250
200

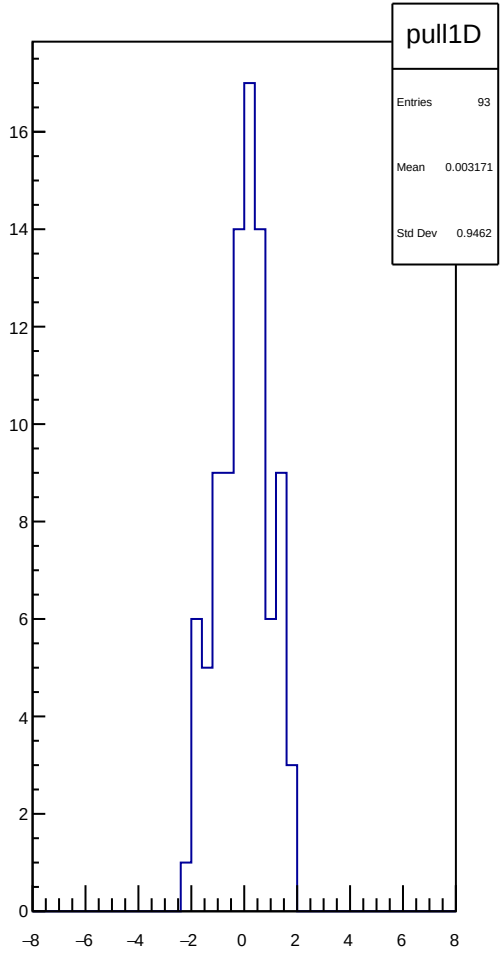

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.45 / 92
p0 −0.4977 ± 0.3898
pull
Entries 93
Mean 39.01
Std Dev 132.2
pull1D
Entries 93
Mean 0.009277
Std Dev 0.9125

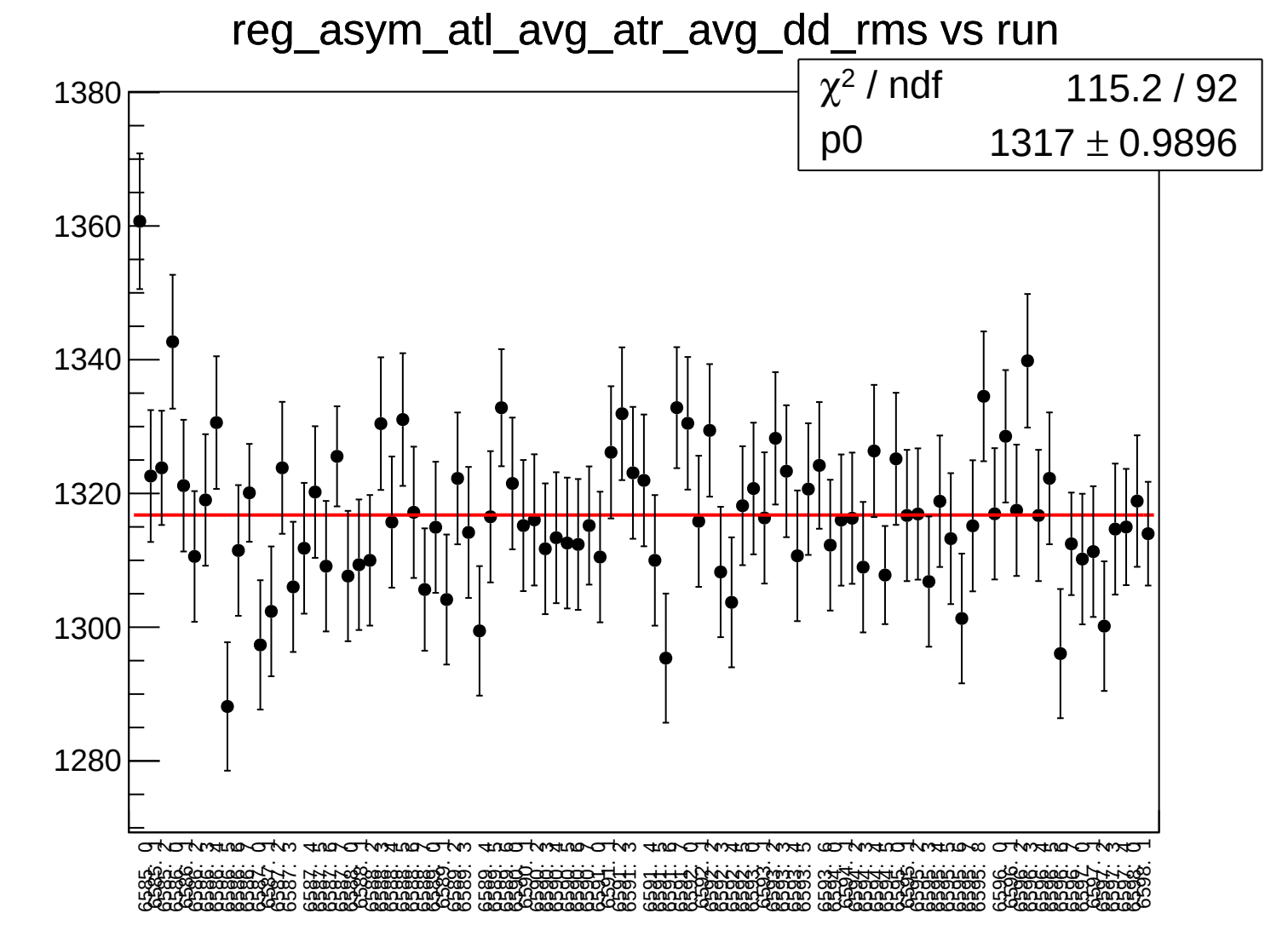

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.813e+04 / 92
p0 362.8 ± 0.2756
550
500
450
400
350
300
250
200

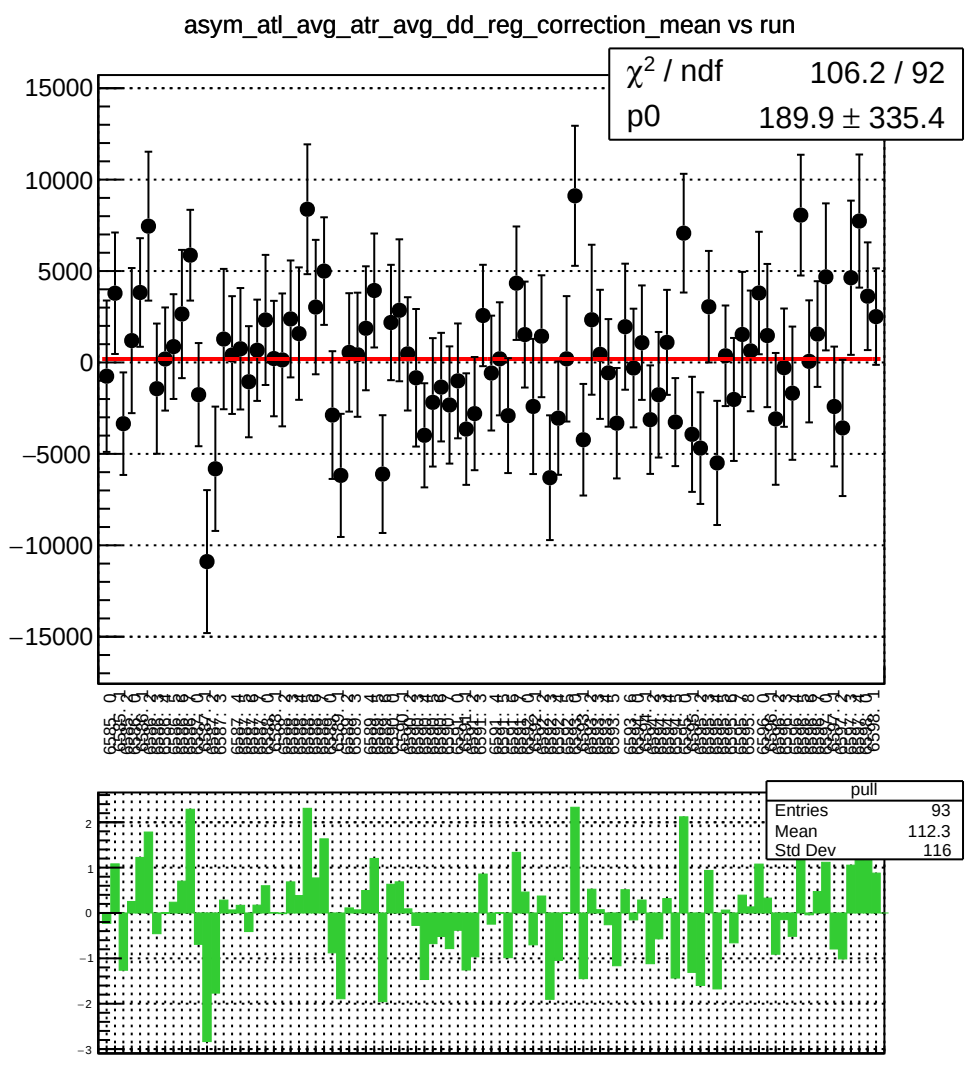

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.97 / 92
p0 −1.163e−13 ± 7.759e−14
pull
Entries 93
Mean 1266
Std Dev 0
pull1D
Entries 93
Mean −0.00228
Std Dev 1.021

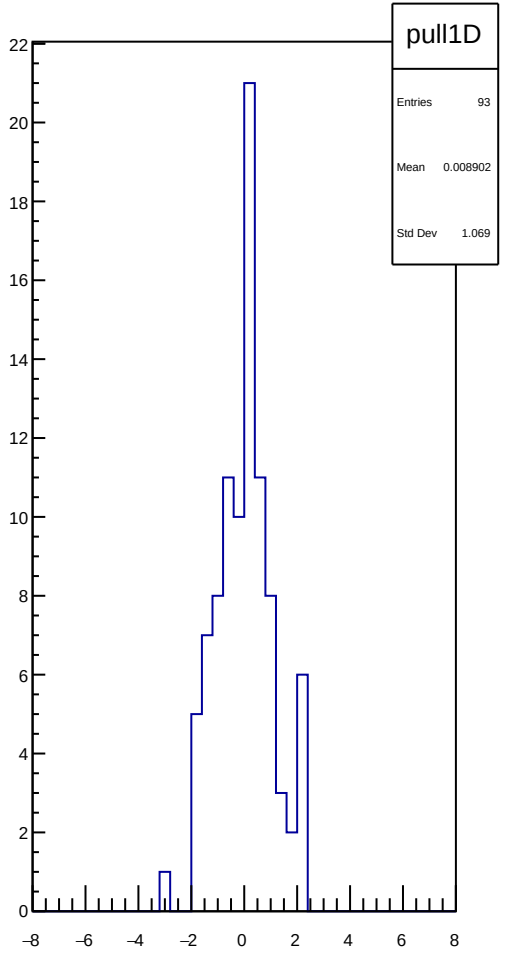

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.288e+05 / 92
p0 6.114e−11 ± 5.486e−14
0.5
0.4
0.3
0.2
0.1

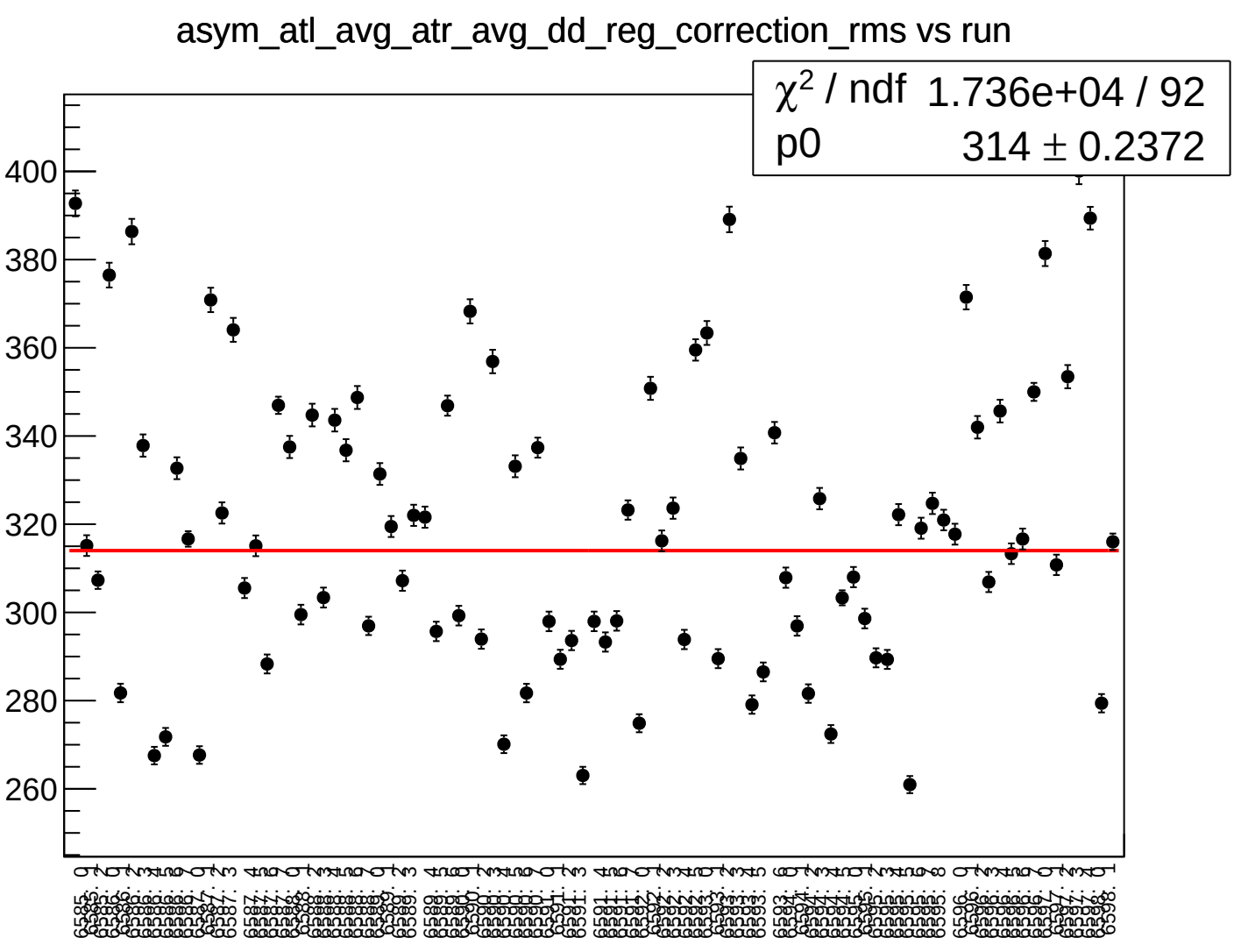

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.26 / 92
p0 2161 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1726
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

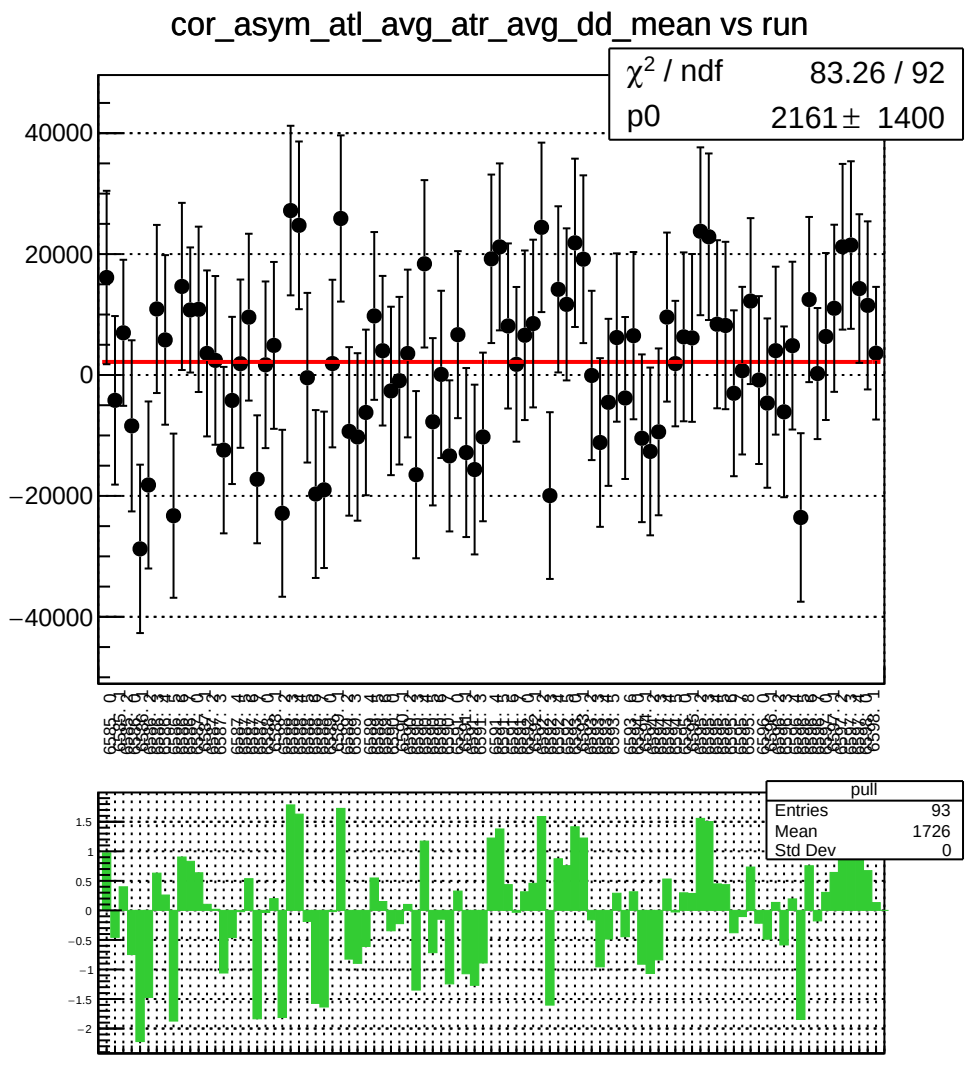

pull1D
Entries 93
Mean 0.003171
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

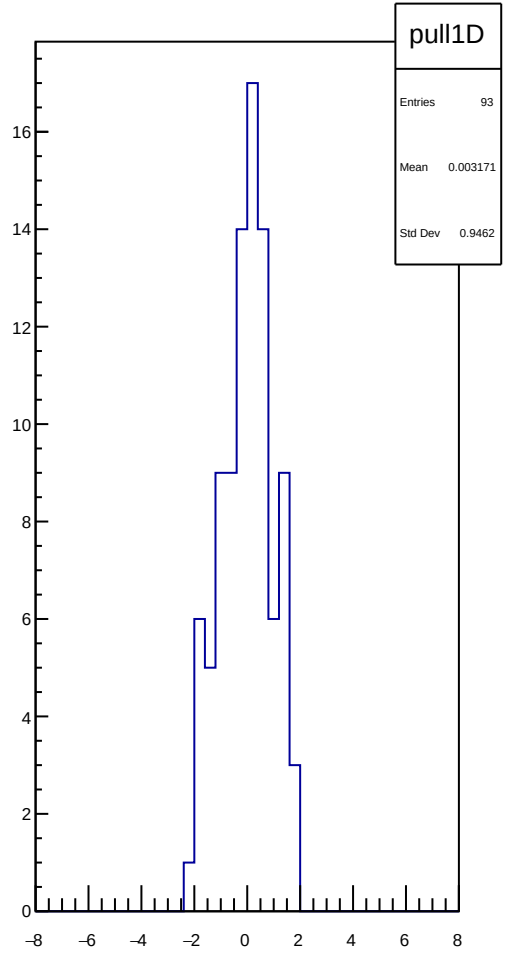

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 115.2 / 92
p0 1317 ± 0.9896
1380
1360
1340
1320
1300
1280

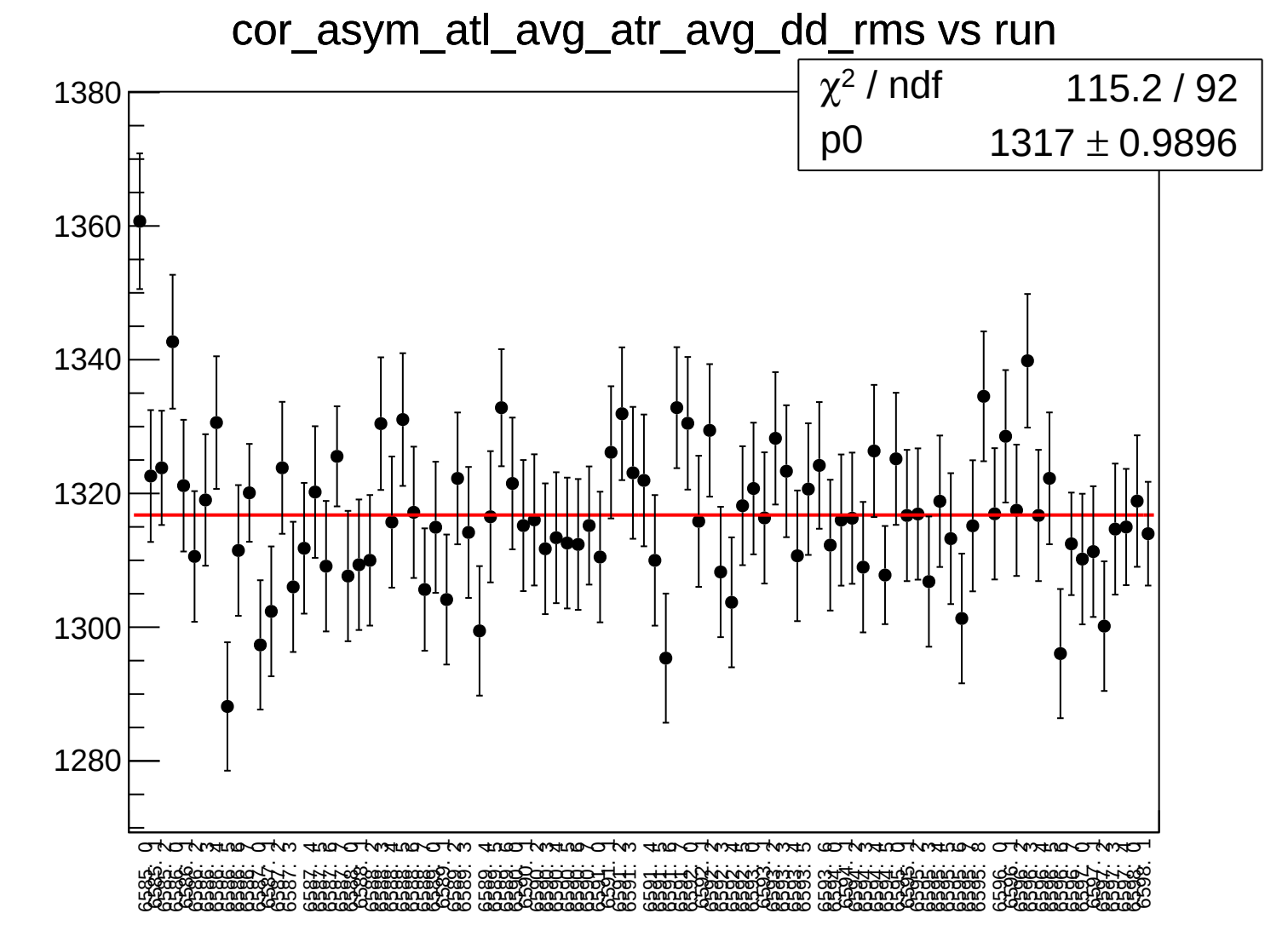

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 106.2 / 92
p0 189.9 ± 335.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 112.3
Std Dev 116
2
1
0
−1
−2
−3

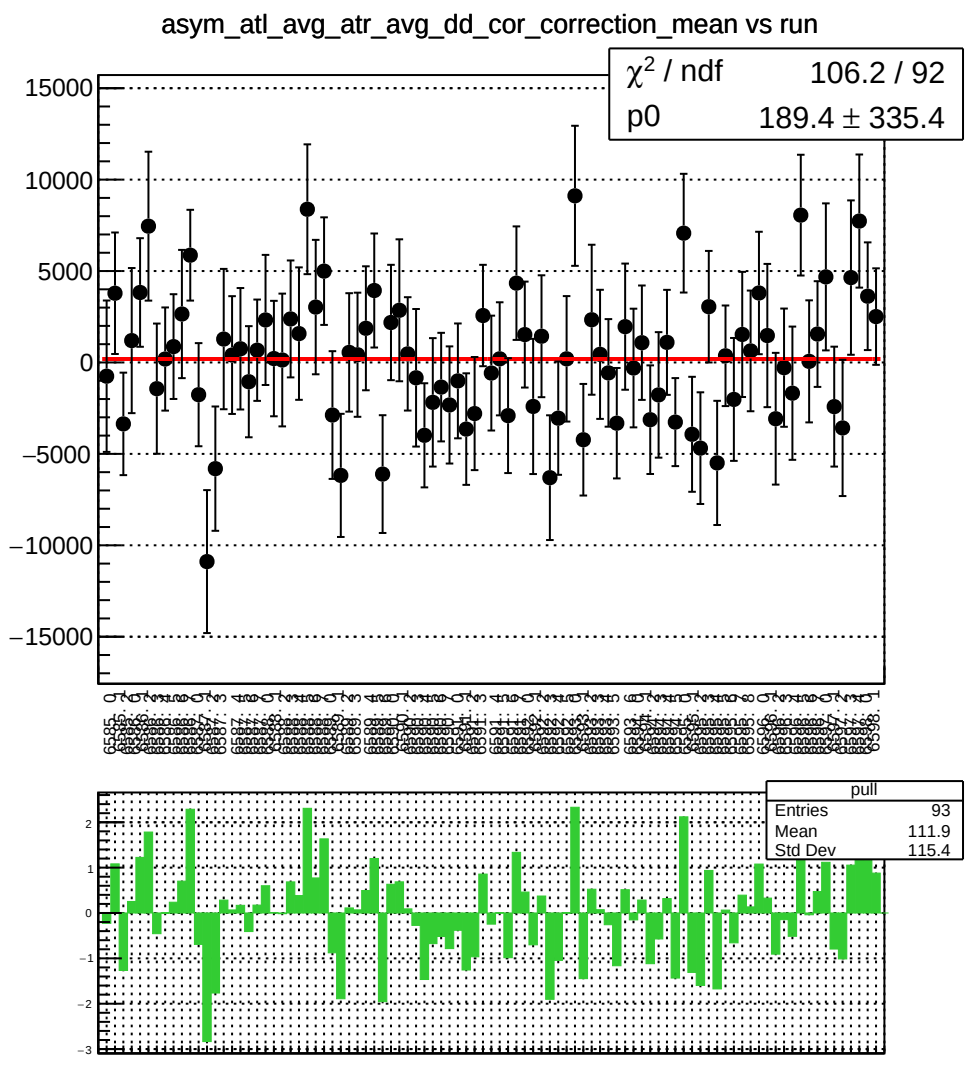

pull1D
Entries 93
Mean 0.008902
Std Dev 1.069
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

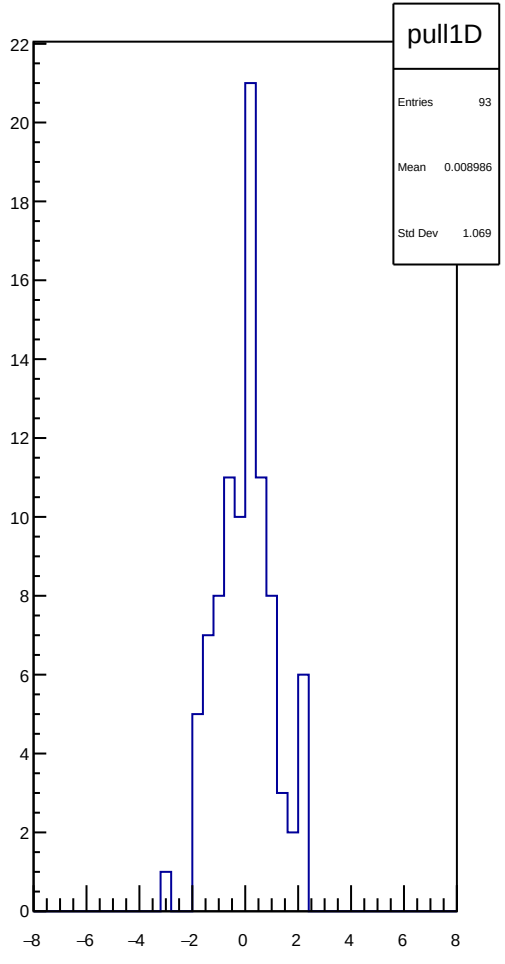

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.736e+04 / 92
p0 314 ± 0.2372
400
380
360
340
320
300
280
260

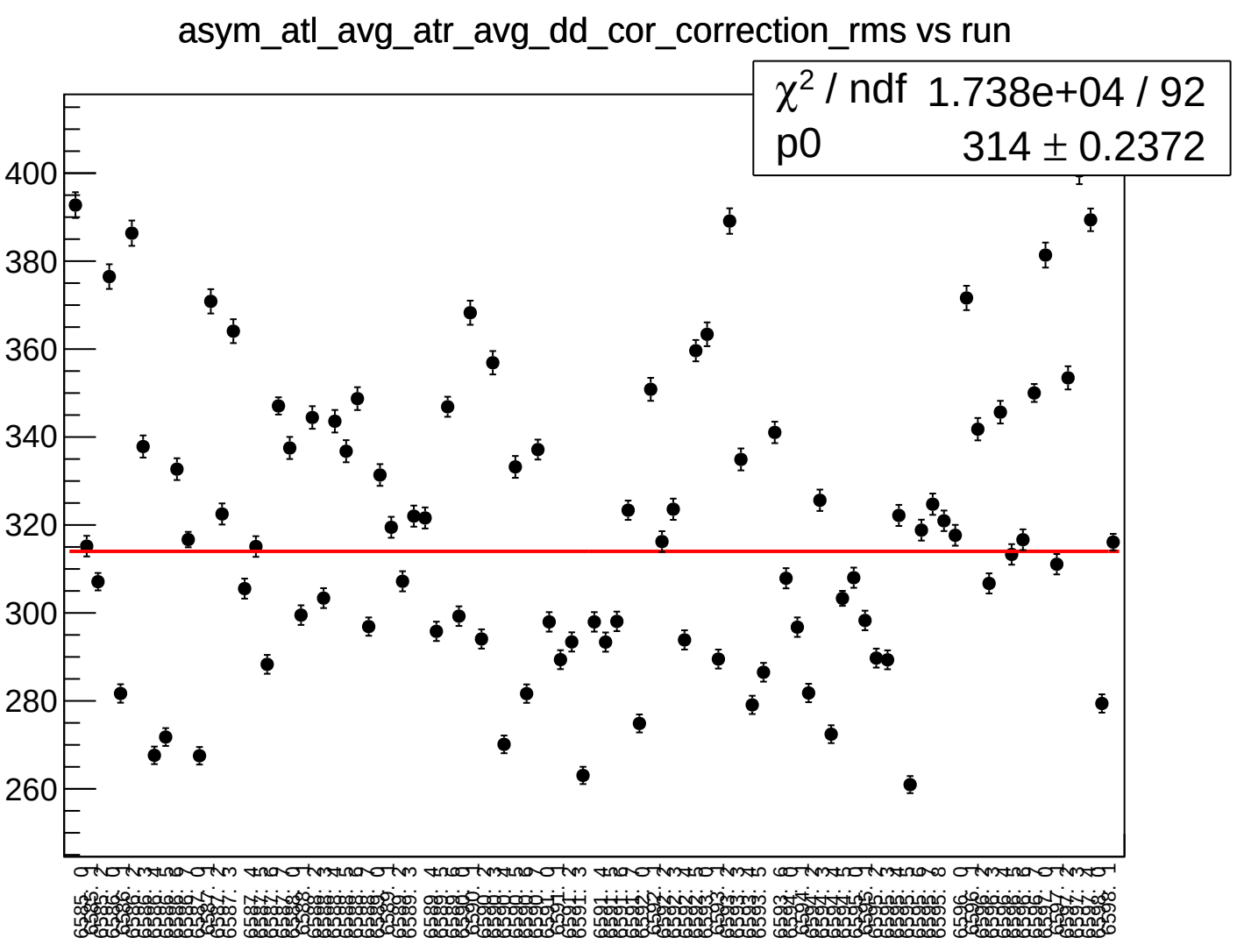

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.26 / 92
p0 2161 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1726
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

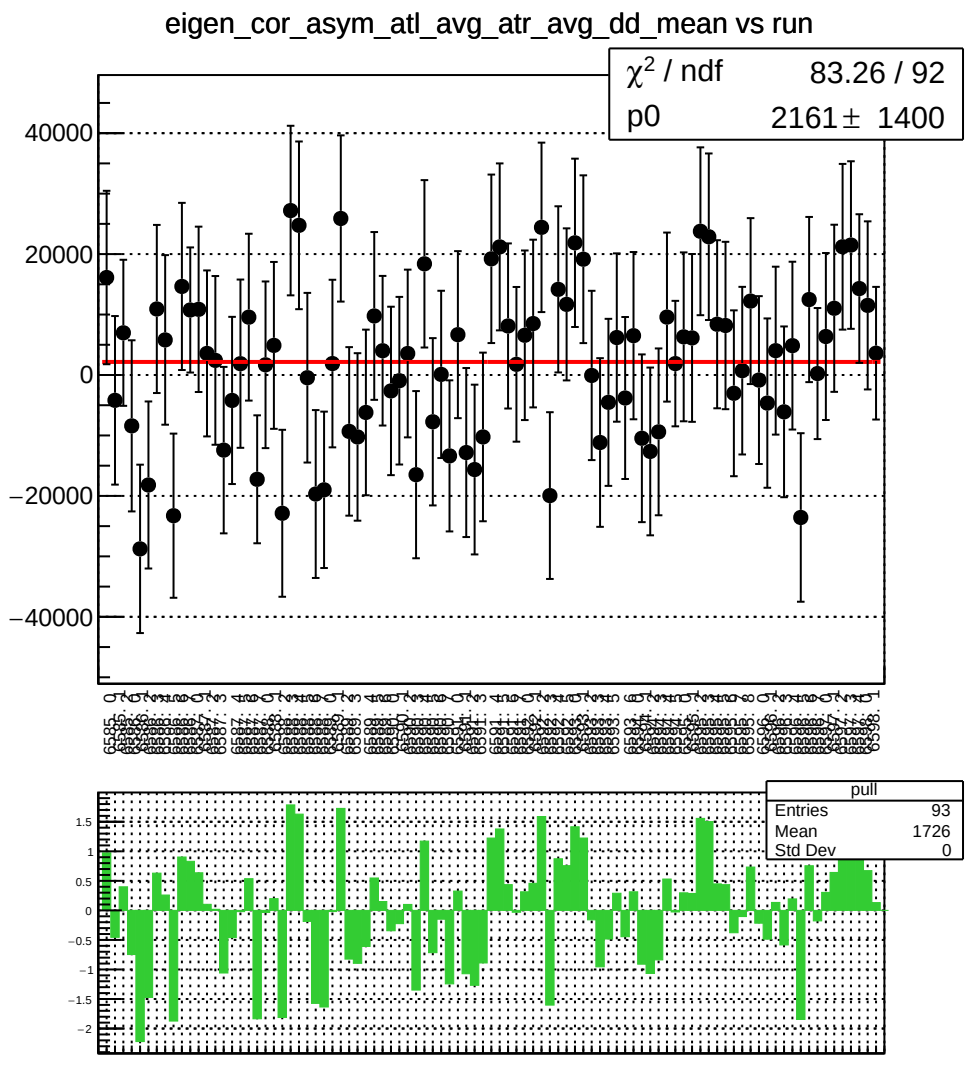

pull1D
Entries 93
Mean 0.003171
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

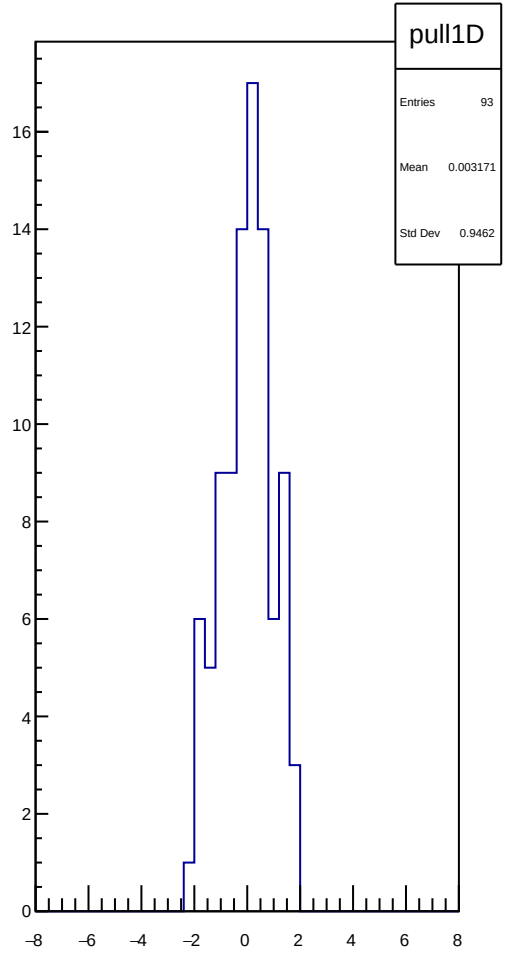

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 115.2 / 92
p0 1317 ± 0.9896
1380
1360
1340
1320
1300
1280

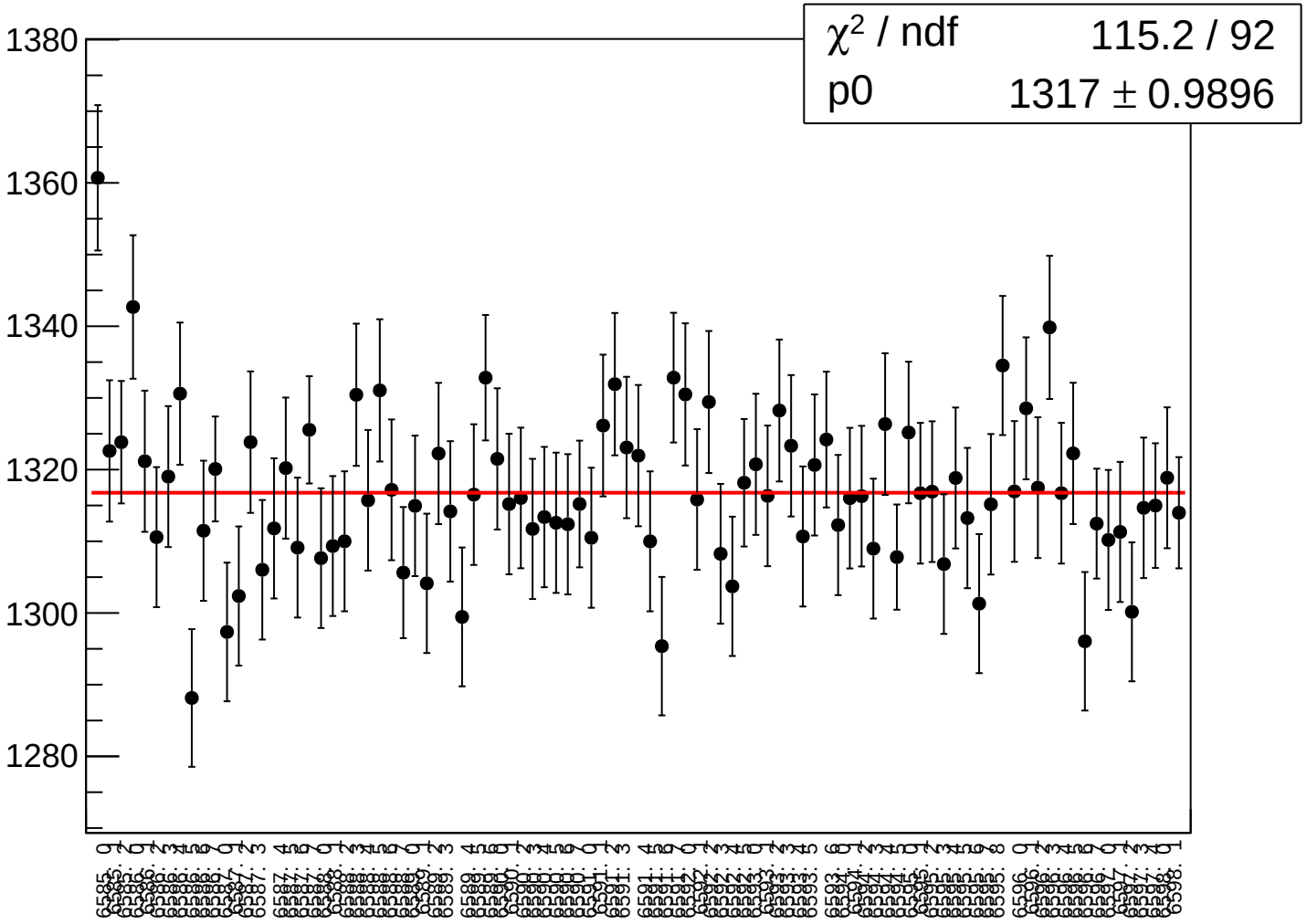

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 106.2 / 92
p0 189.4 ± 335.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 111.9
Std Dev 115.4
2
1
0
−1
−2
−3

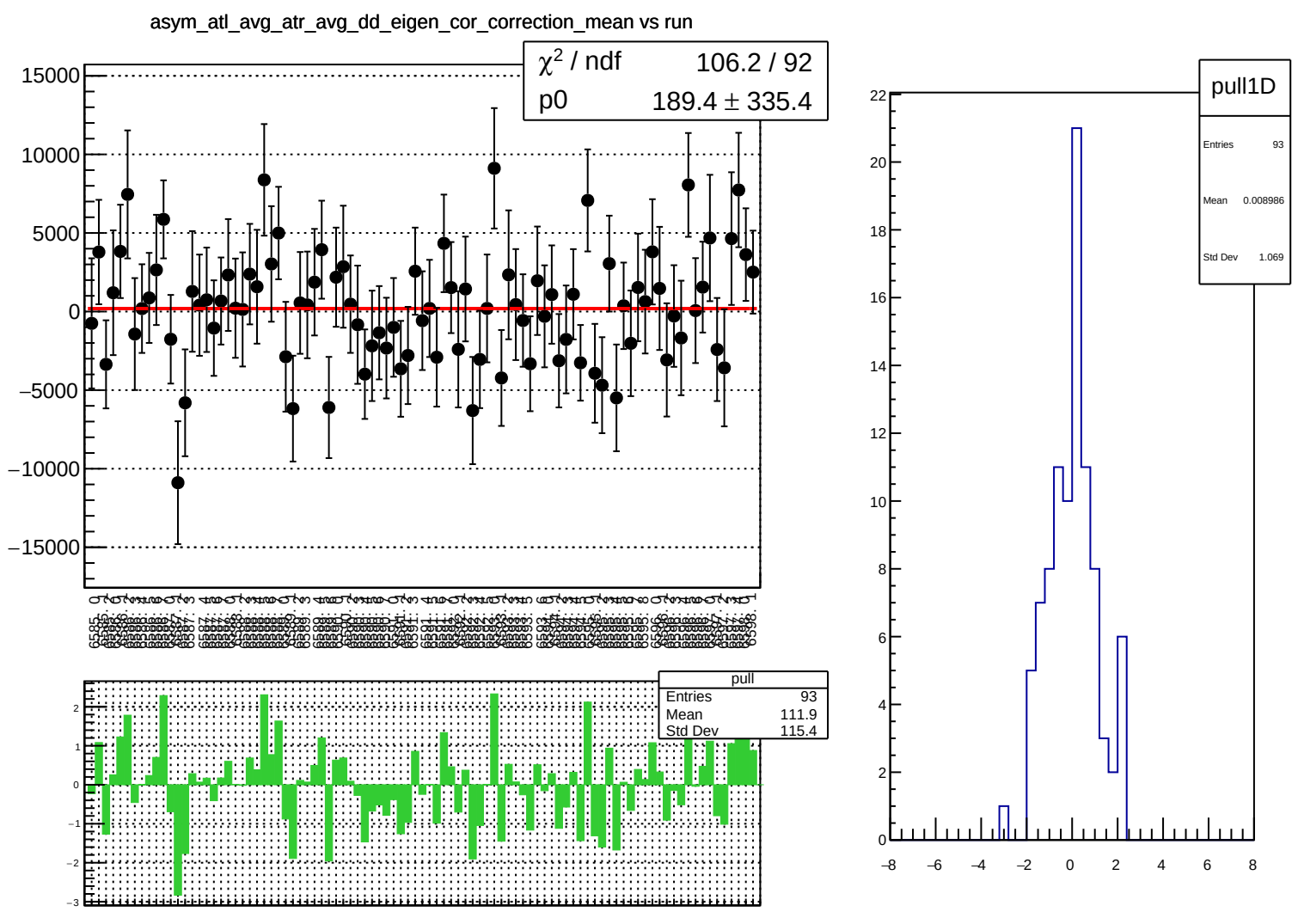

pull1D
Entries 93
Mean 0.008986
Std Dev 1.069
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

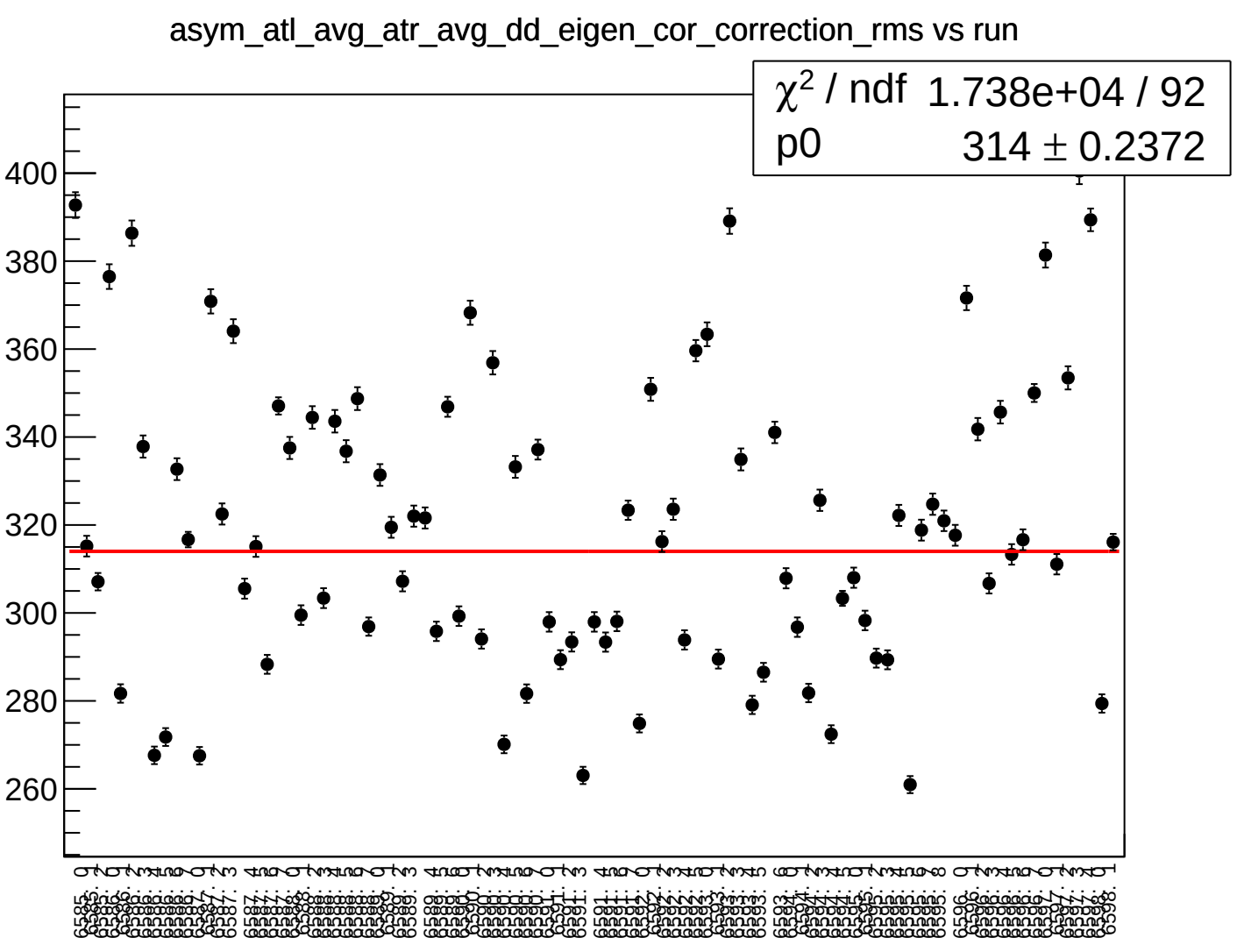

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.738e+04 / 92
p0 314 ± 0.2372
400
380
360
340
320
300
280
260

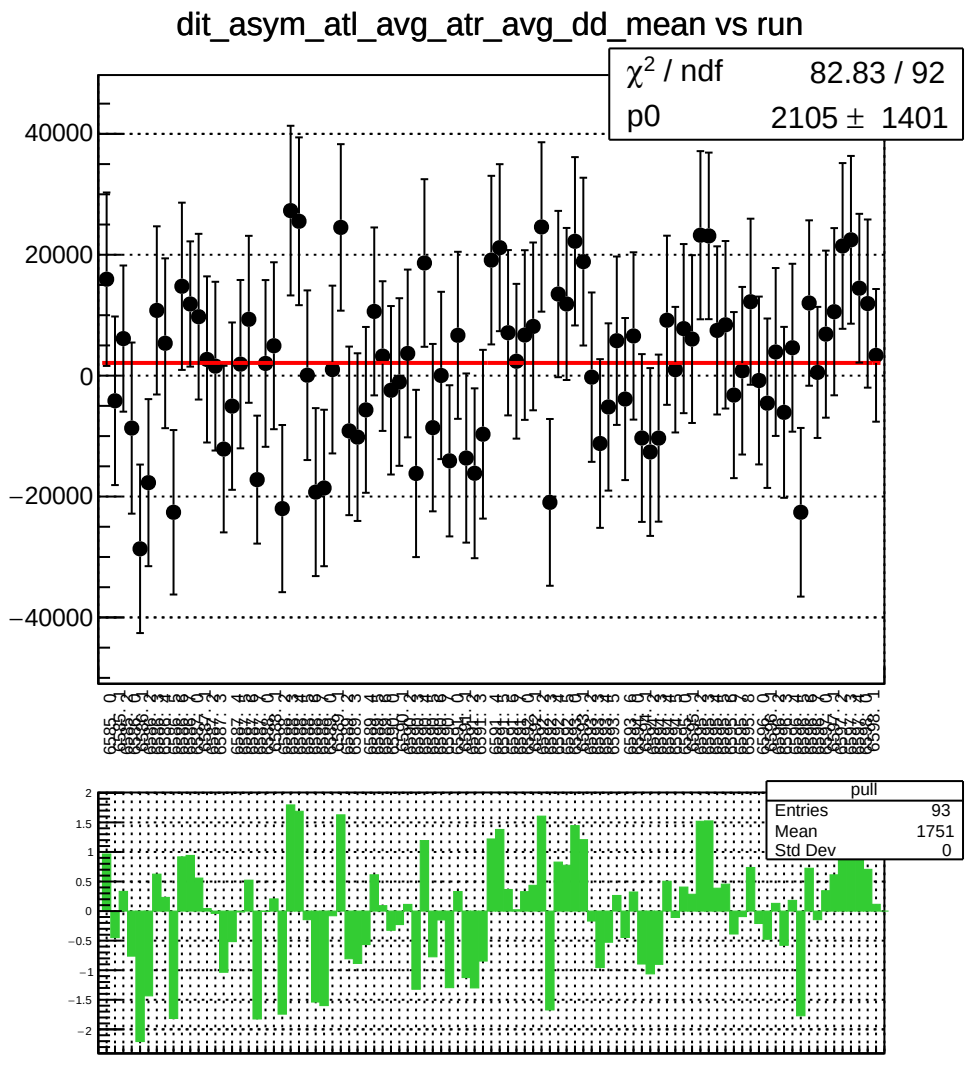

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 83.26 / 92
p0 2161 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1726
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

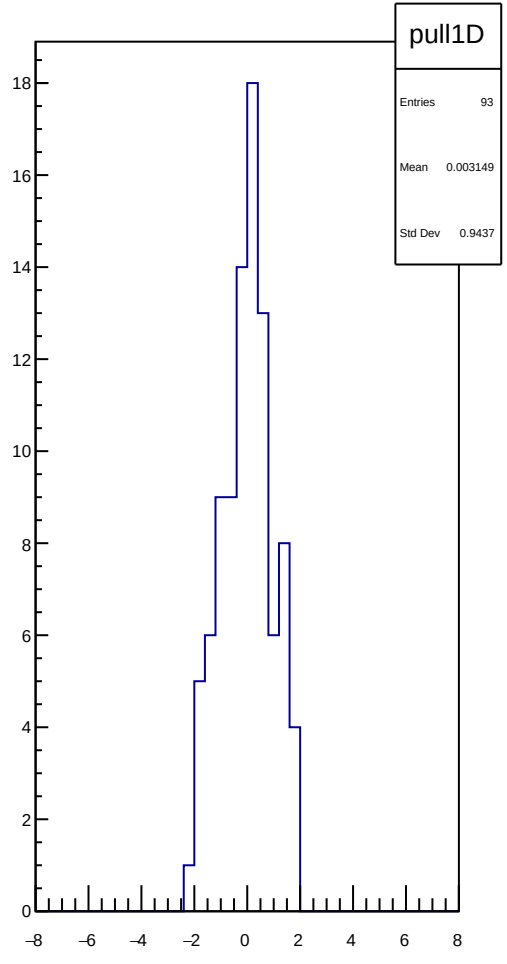

pull1D
Entries 93
Mean 0.003171
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

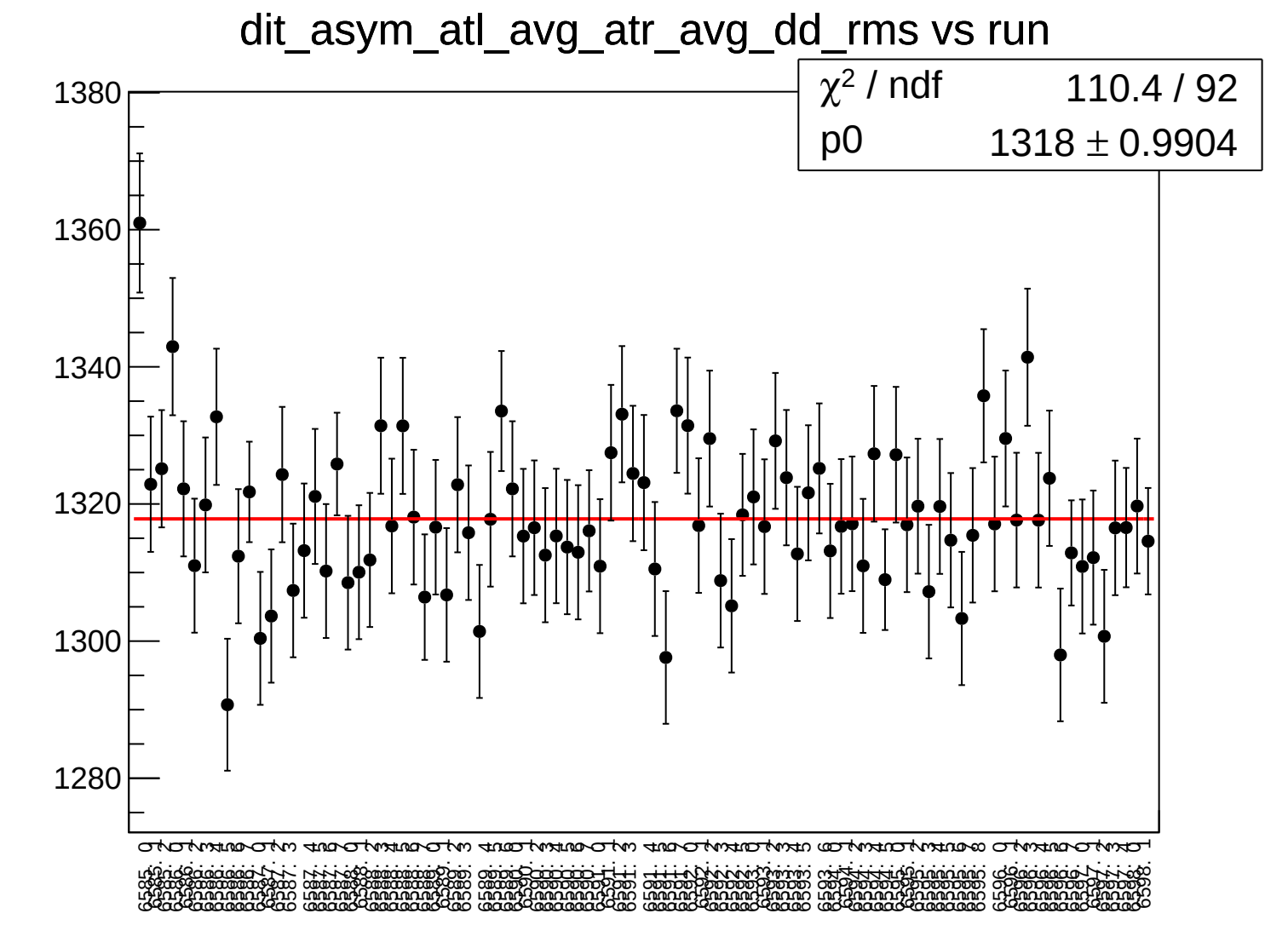

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 115.2 / 92
p0 1317 ± 0.9896
1380
1360
1340
1320
1300
1280

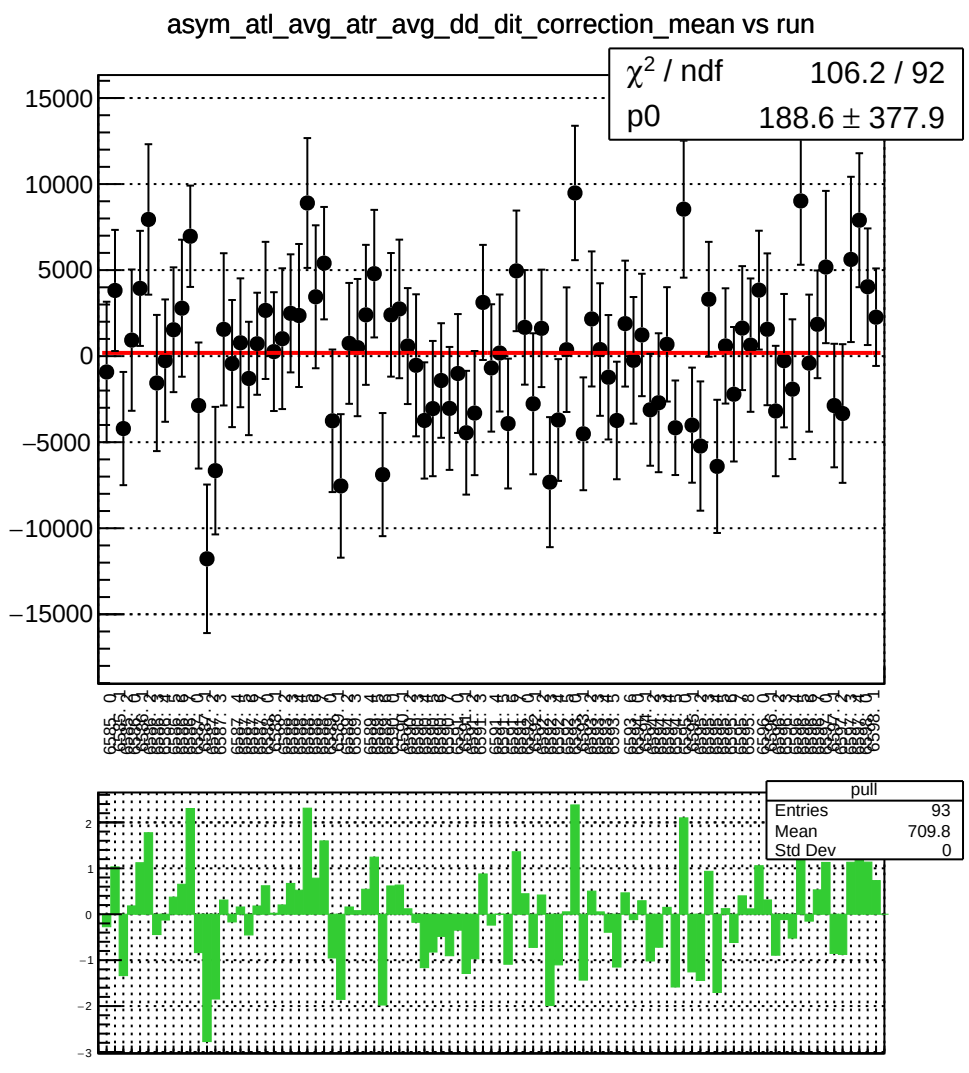

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 106.2 / 92
p0 189.4 ± 335.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 111.9
Std Dev 115.4
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.008986
Std Dev 1.069
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

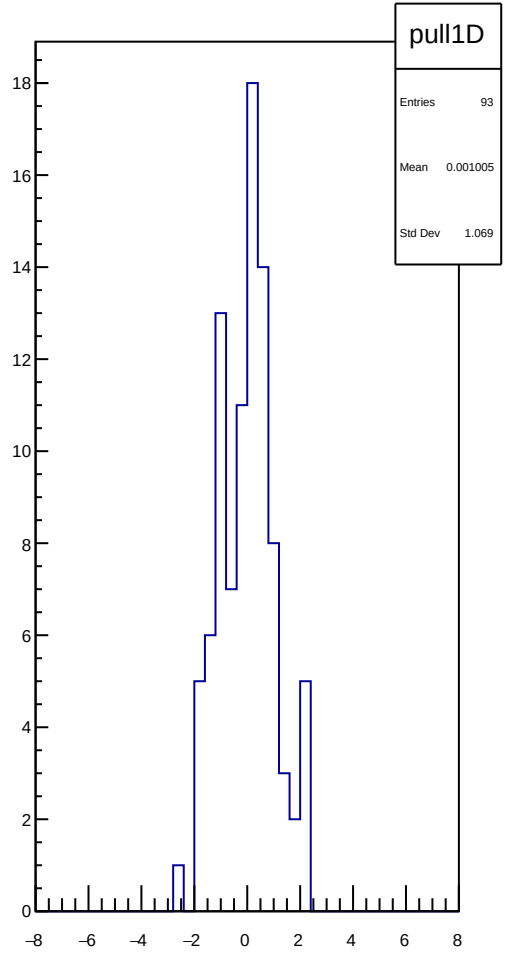

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.738e+04 / 92
p0 314 ± 0.2372
400
380
360
340
320
300
280
260

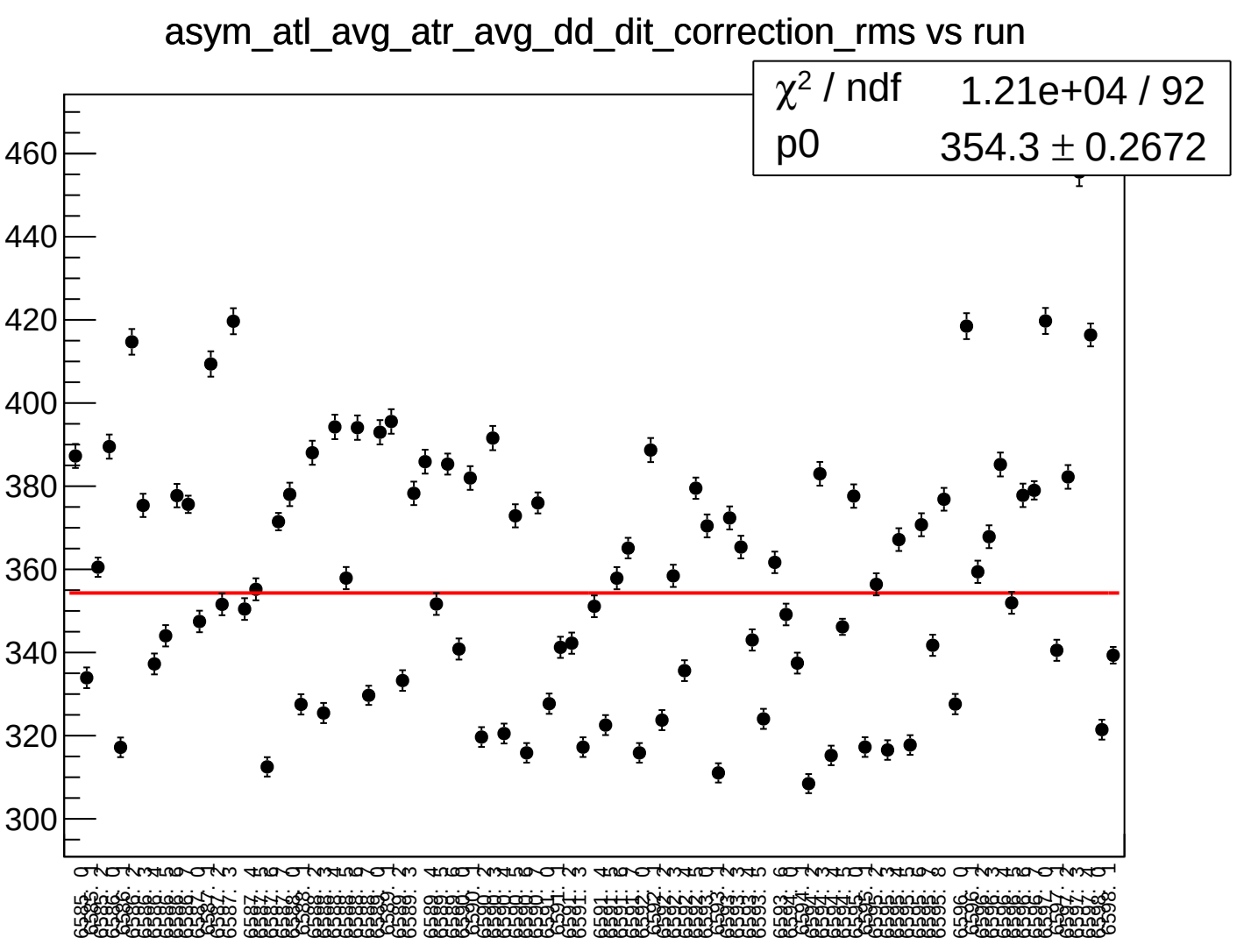

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.83 / 92
p0 2105 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1751
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

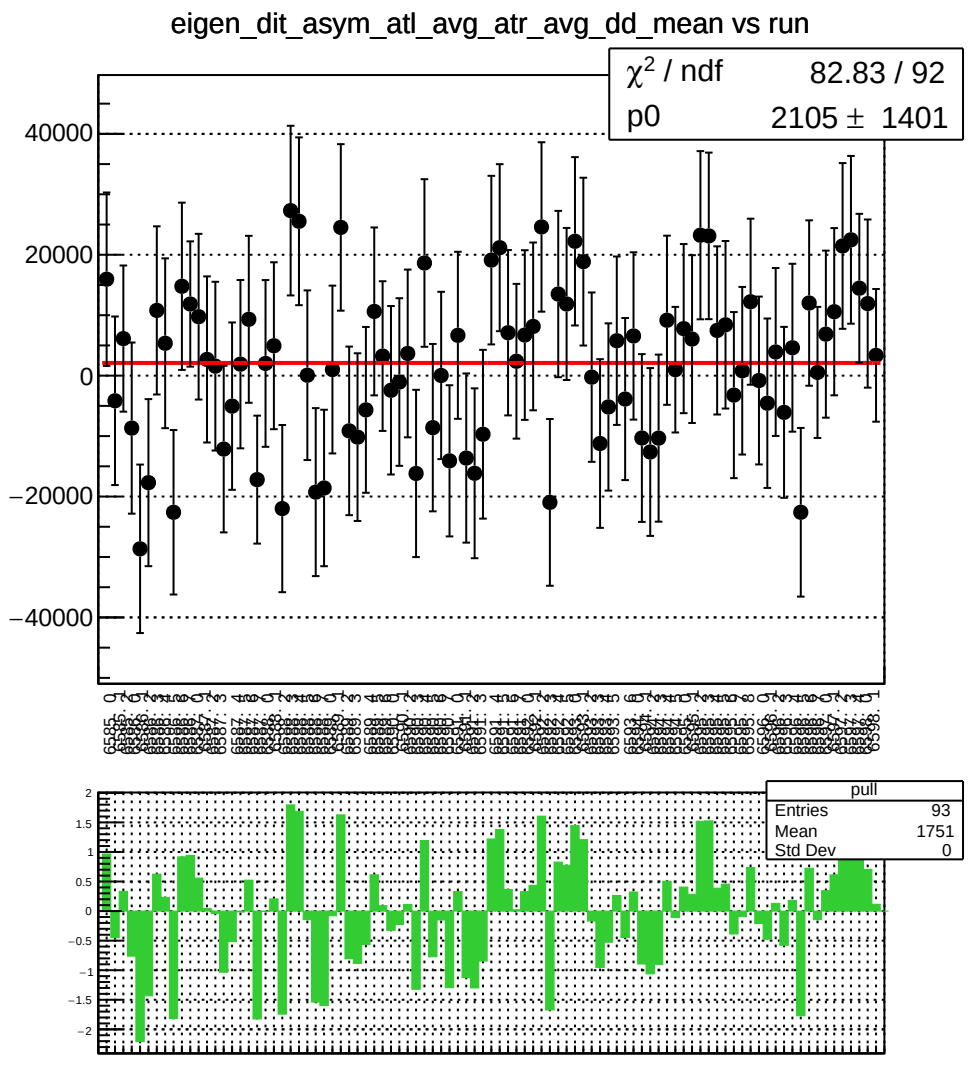

pull1D
Entries 93
Mean 0.003149
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

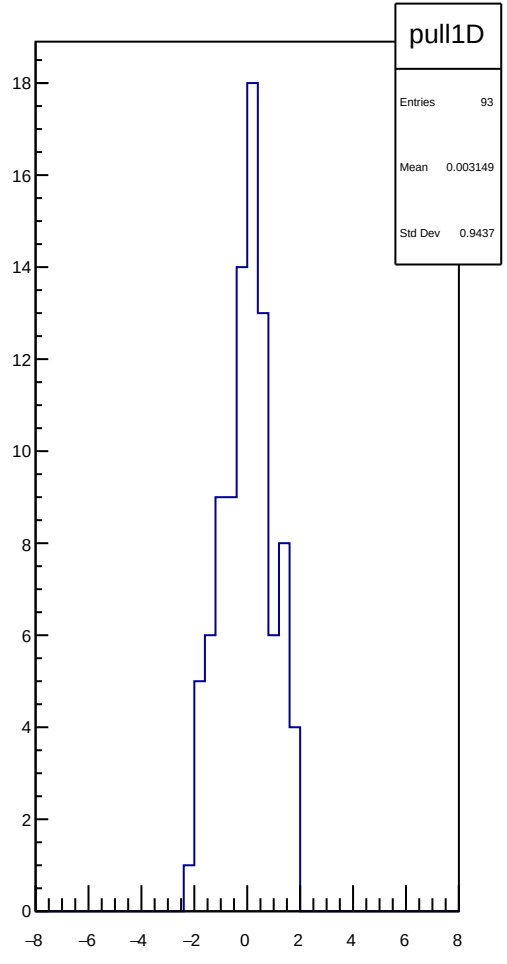

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 110.4 / 92
p0 1318 ± 0.9904
1380
1360
1340
1320
1300
1280

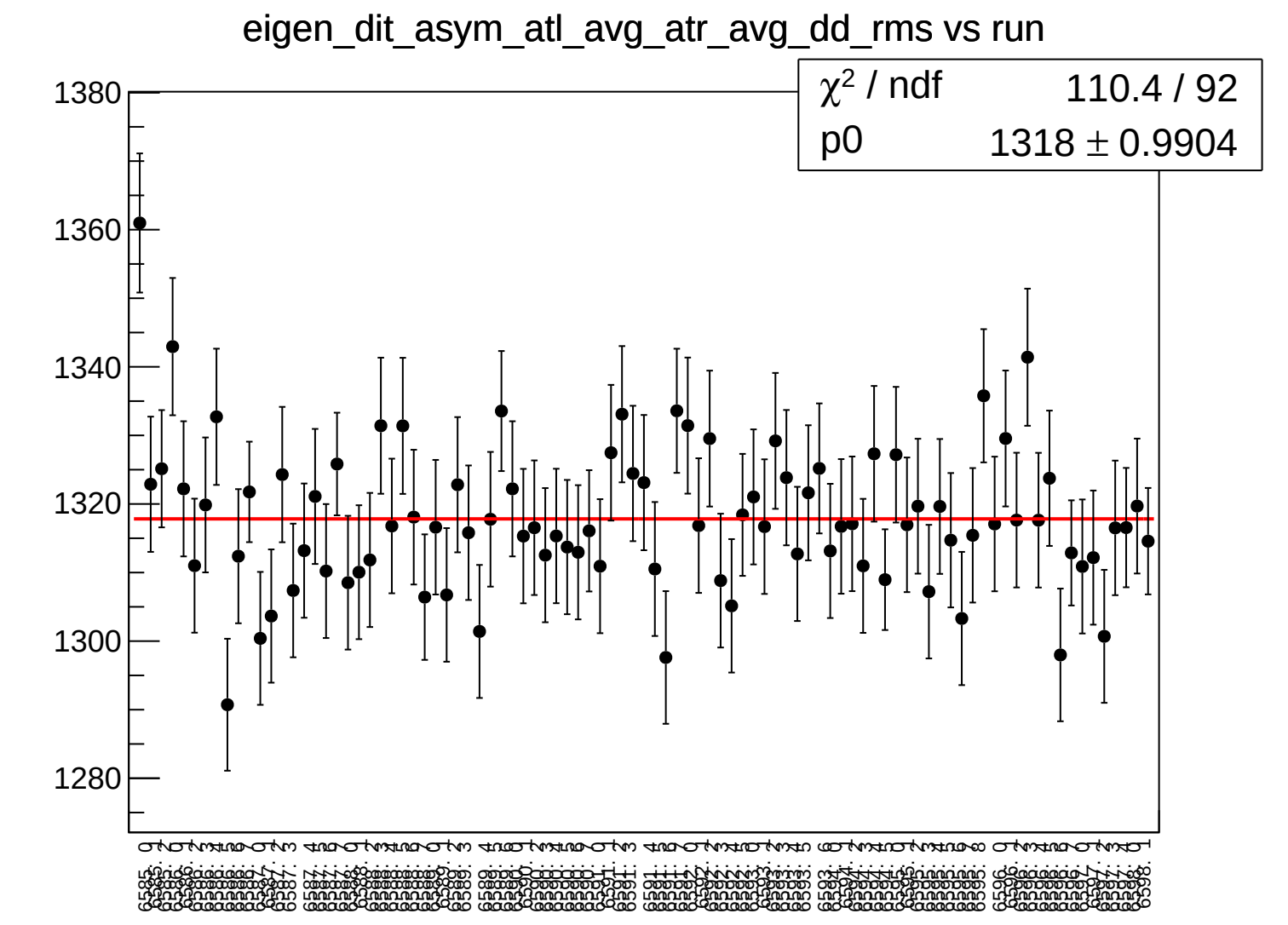

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 106.2 / 92
p0 188.6 ± 377.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 709.8
Std Dev 0
2
1
0
−1
−2
−3

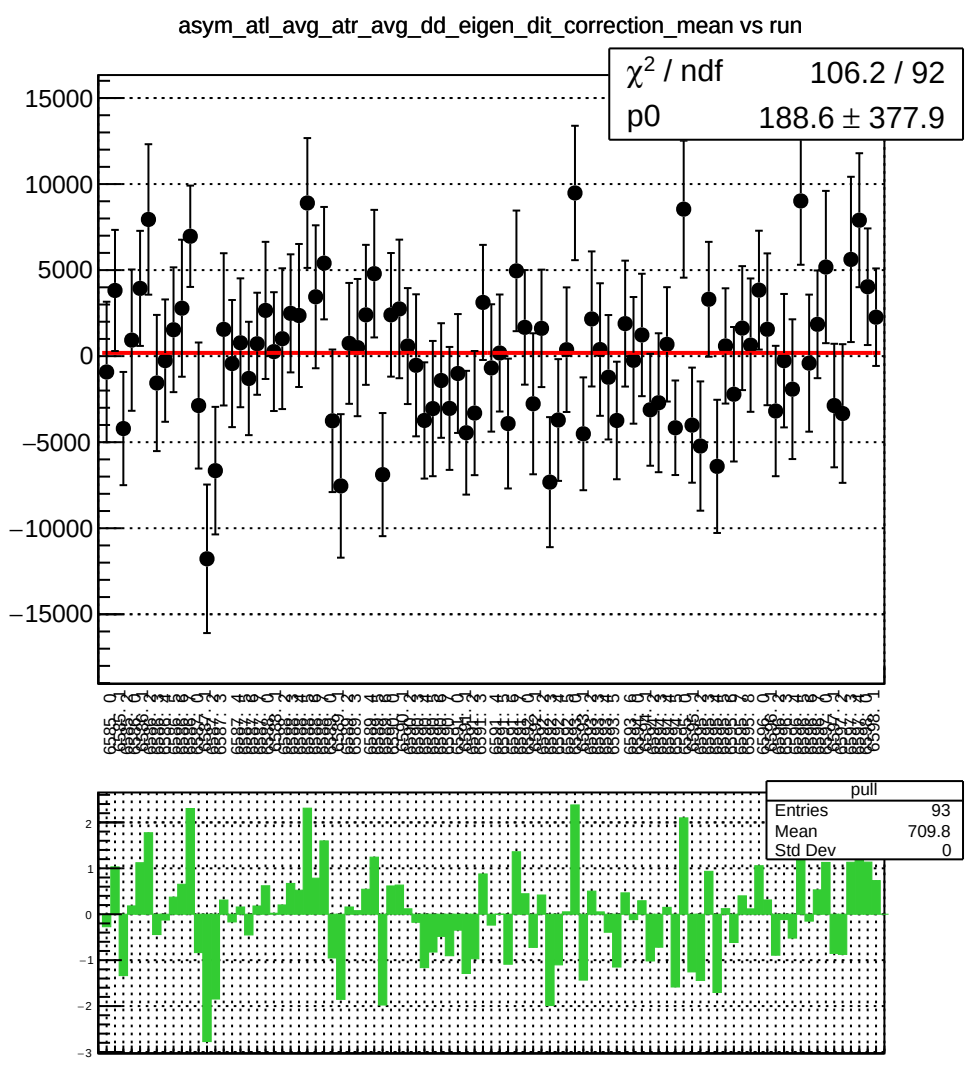

pull1D
Entries 93
Mean 0.001005
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

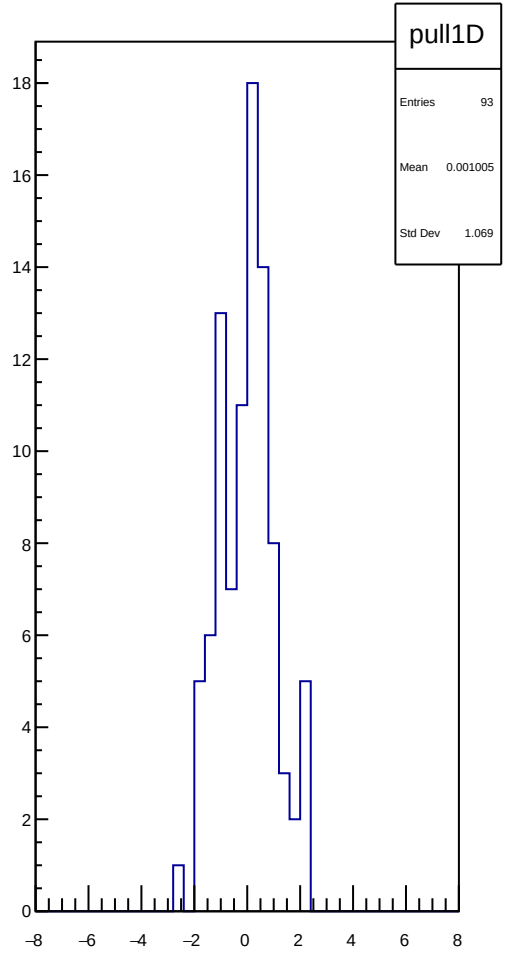

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.21e+04 / 92
p0 354.3 ± 0.2672
460
440
420
400
380
360
340
320
300

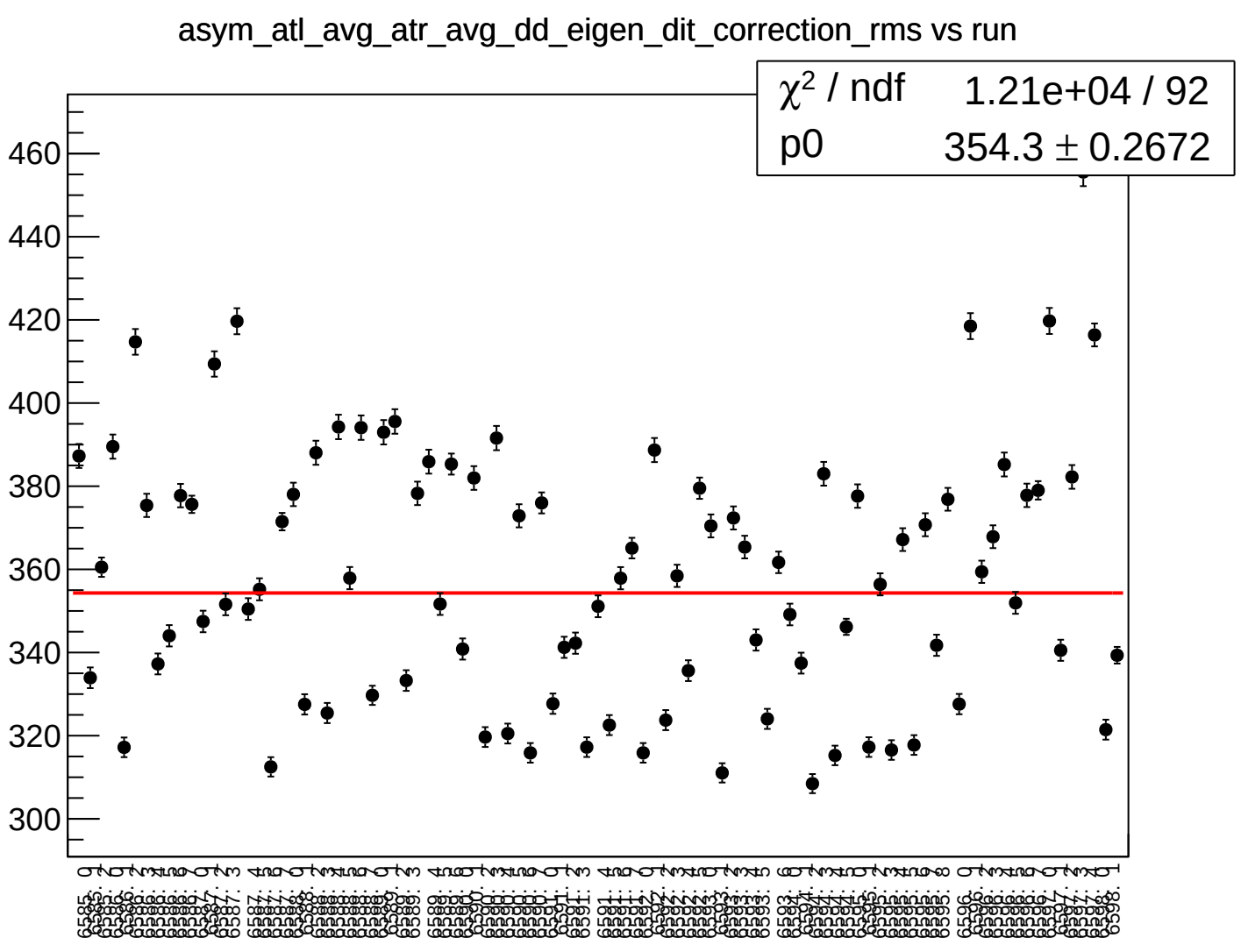

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 82.83 / 92
p0 2105 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1751
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

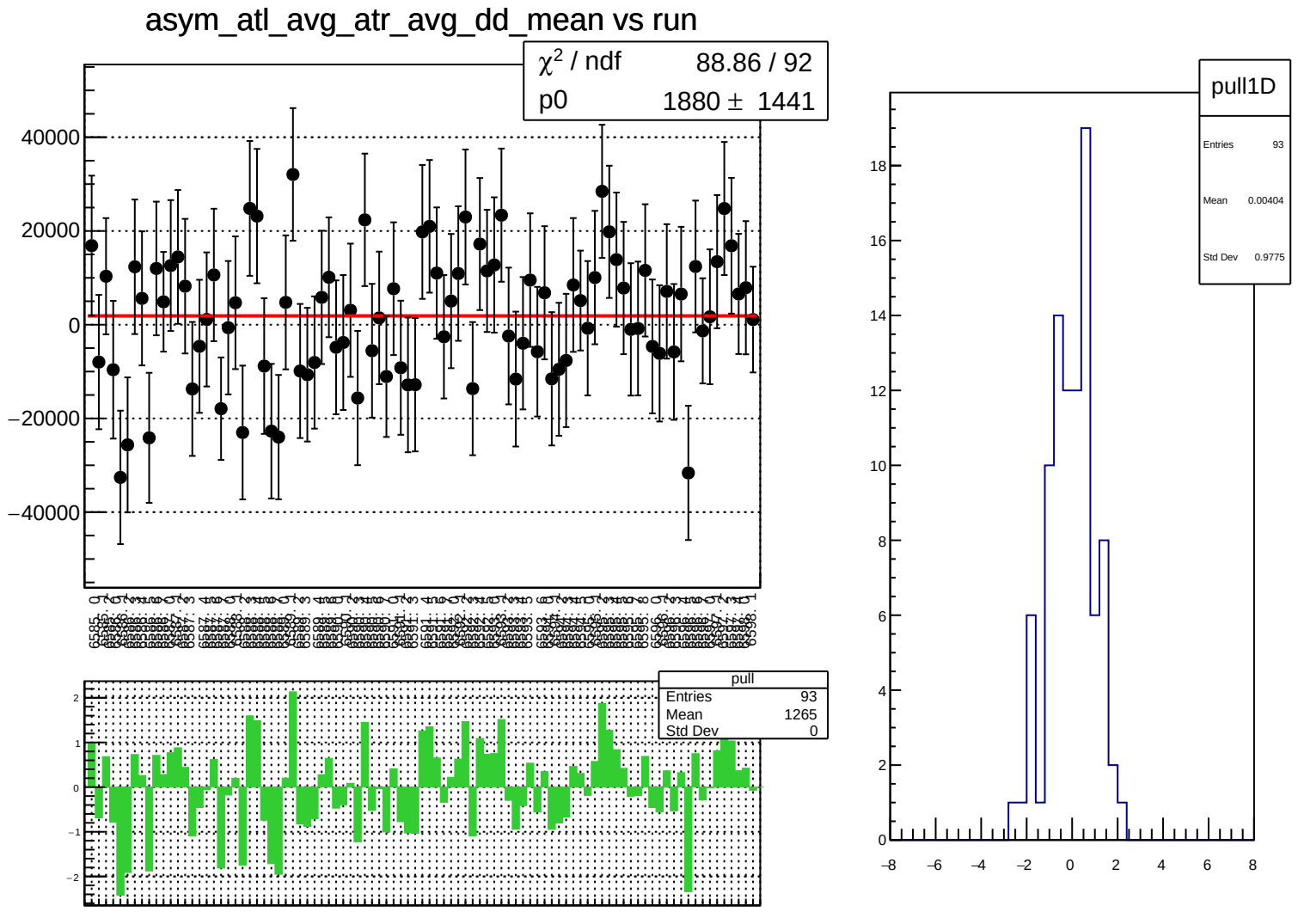

pull1D
Entries 93
Mean 0.003149
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

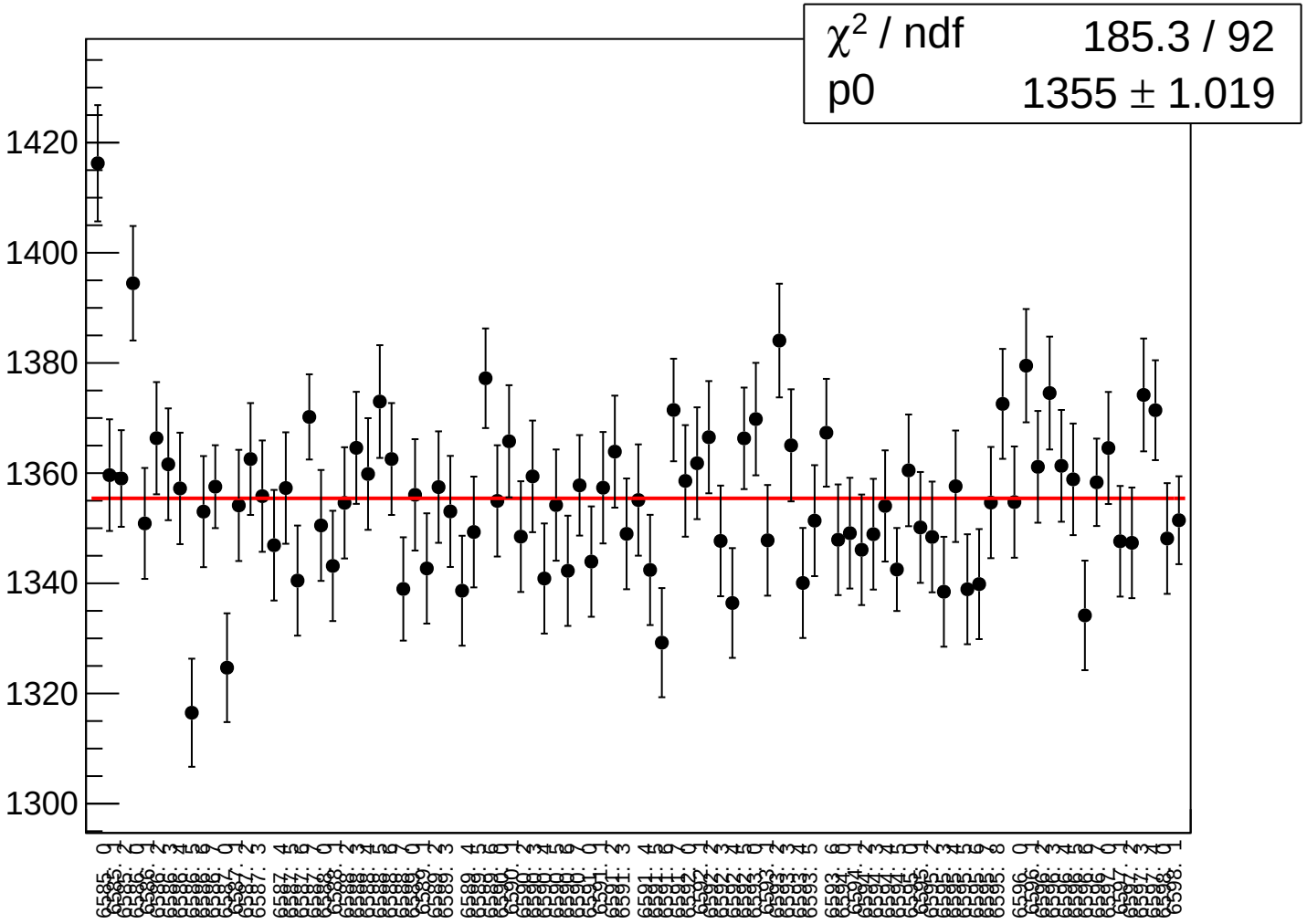

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 110.4 / 92
p0 1318 ± 0.9904
1380
1360
1340
1320
1300
1280

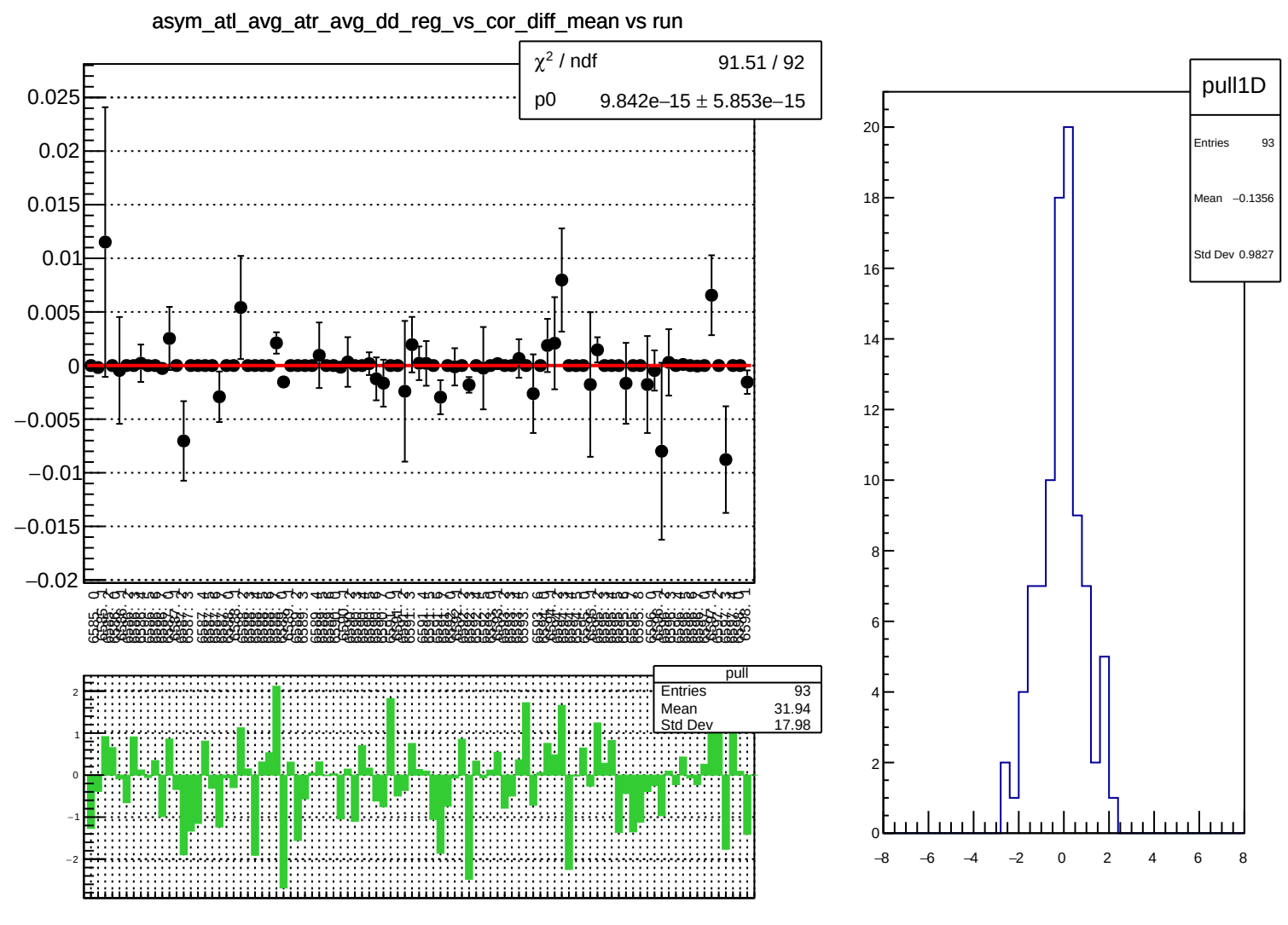

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.2 / 92
p0 188.6 ± 377.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 709.8
Std Dev 0
2
1
0
−1
−2
−3

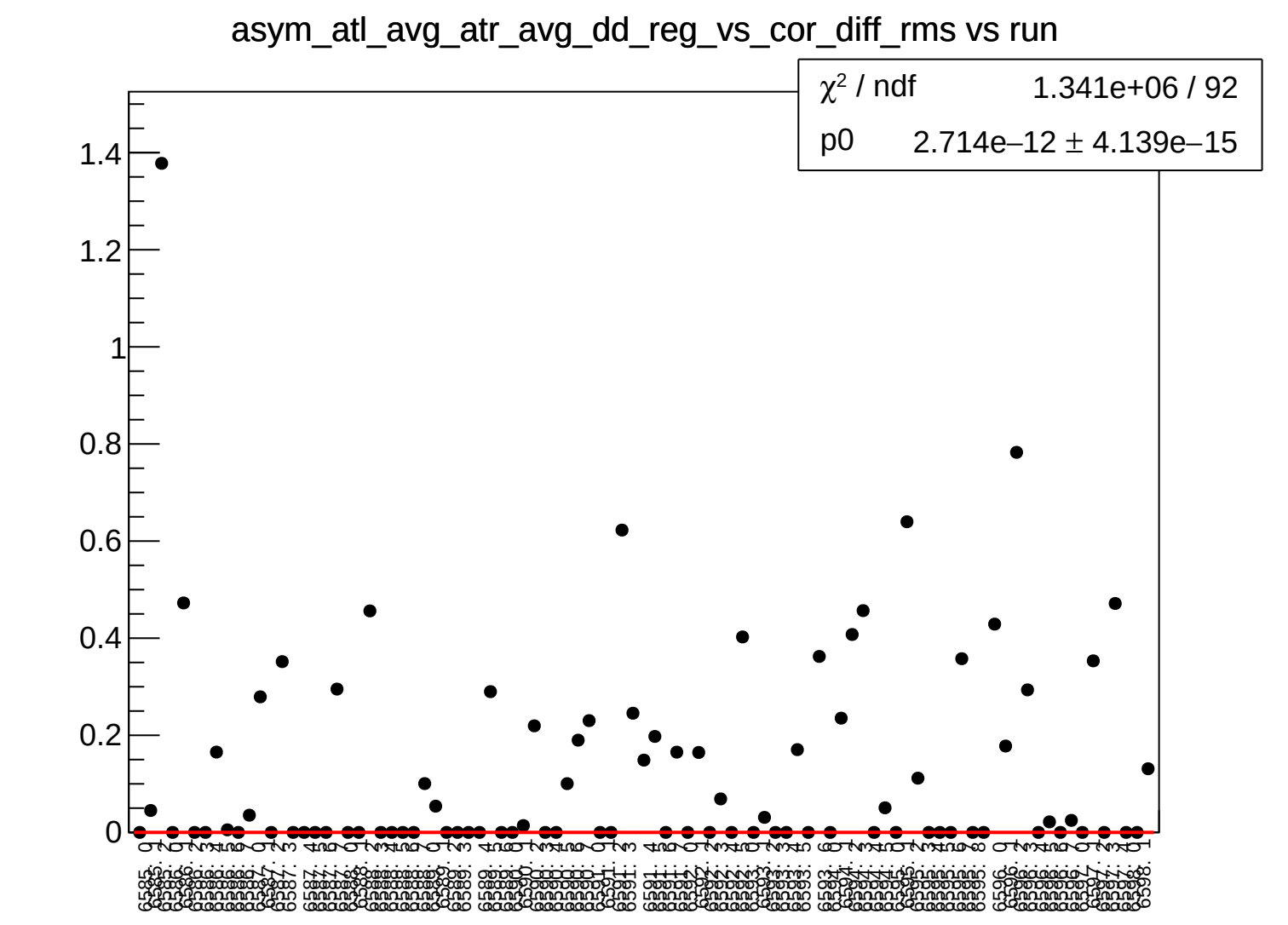

pull1D
Entries 93
Mean 0.001005
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

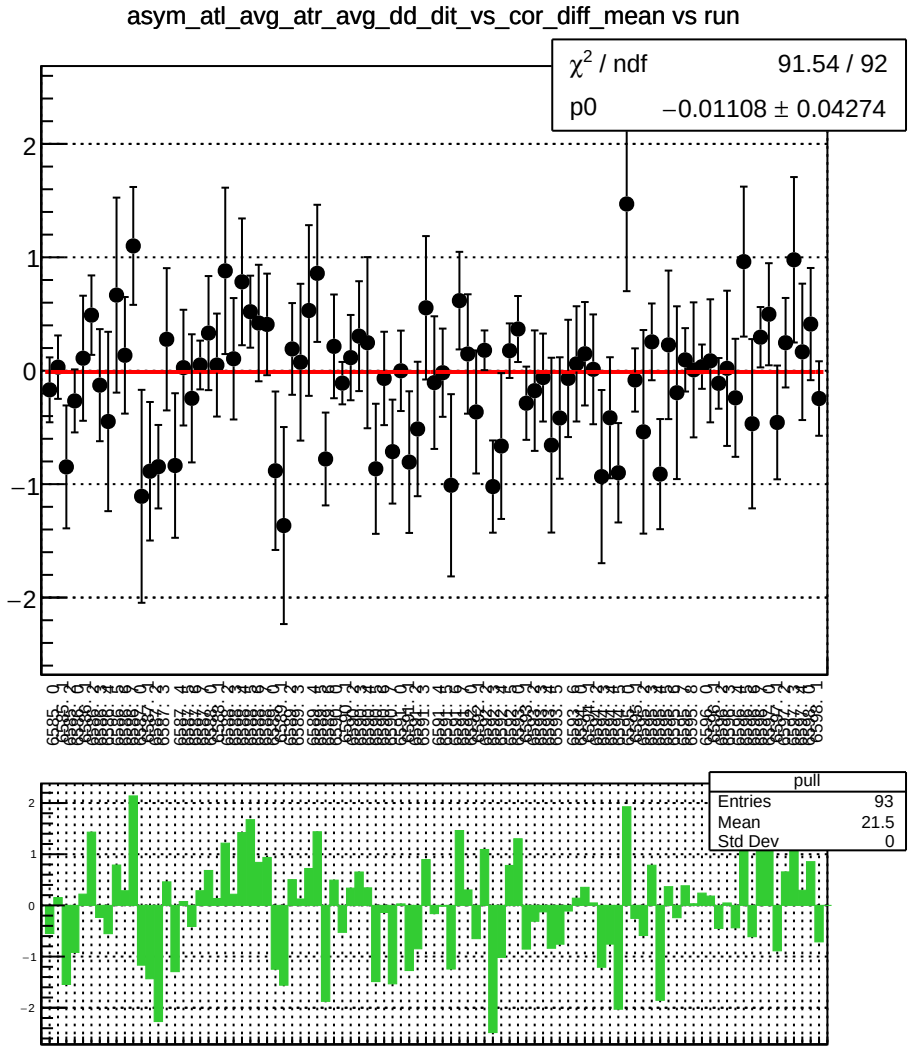

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.21e+04 / 92
p0 354.3 ± 0.2672
460
440
420
400
380
360
340
320
300

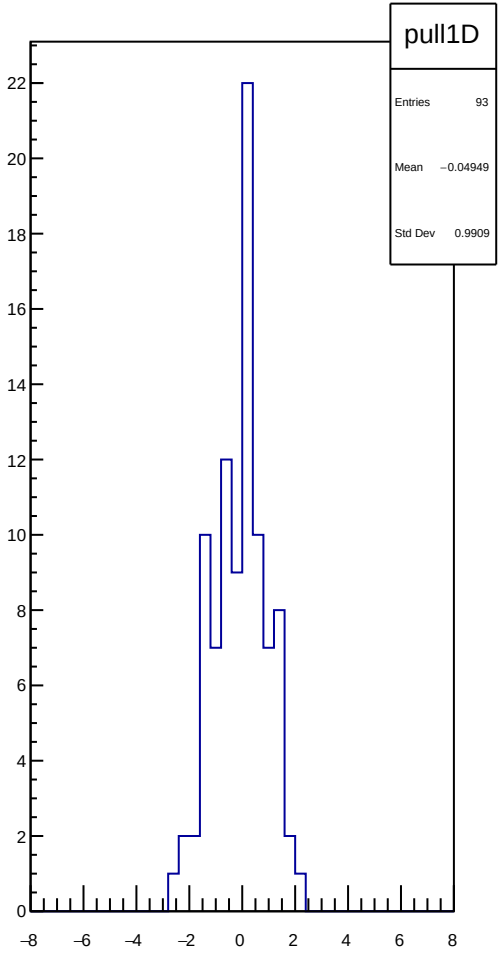

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.86 / 92
p0 1880 ± 1441
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1265
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00404
Std Dev 0.9775
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

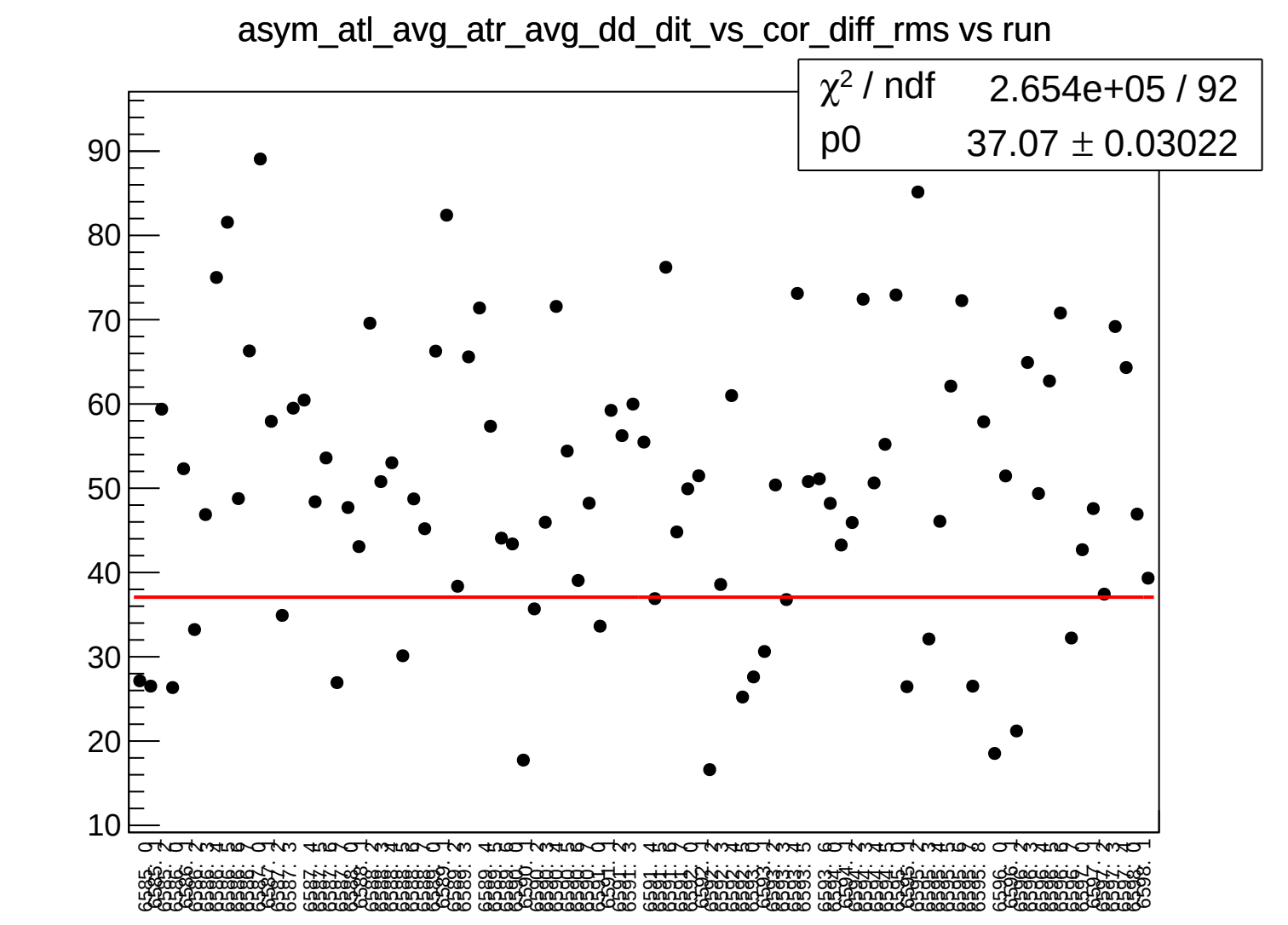

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 185.3 / 92
p0 1355 ± 1.019
1420
1400
1380
1360
1340
1320
1300

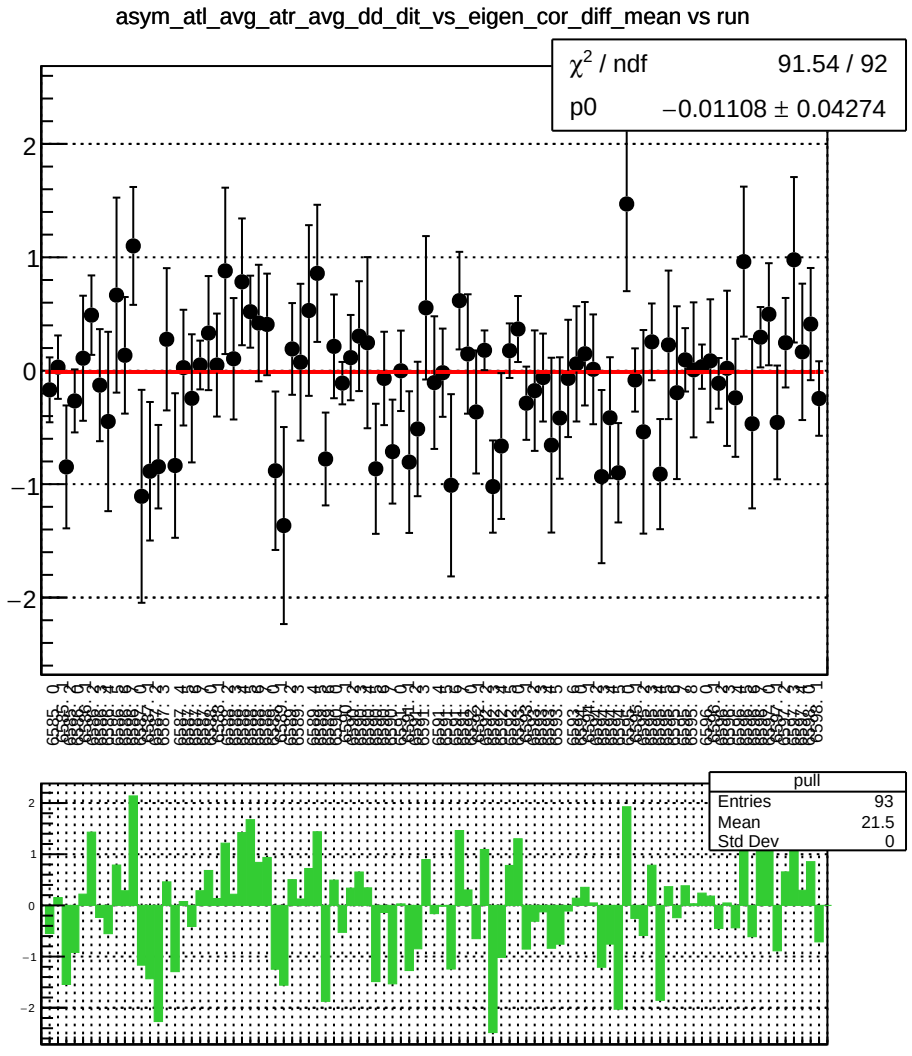

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.51 / 92
p0 9.842e−15 ± 5.853e−15
pull
Entries 93
Mean 31.94
Std Dev 17.98
pull1D
Entries 93
Mean −0.1356
Std Dev 0.9827

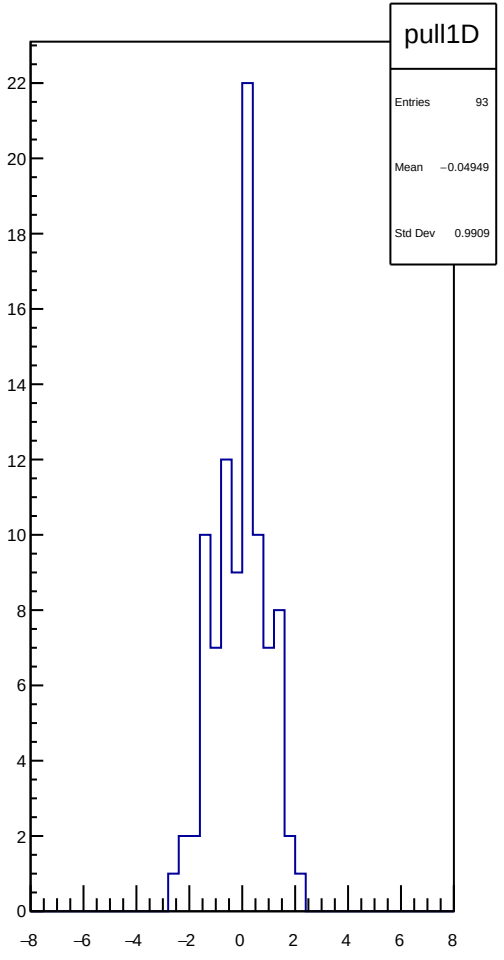

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.341e+06 / 92
p0 2.714e−12 ± 4.139e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

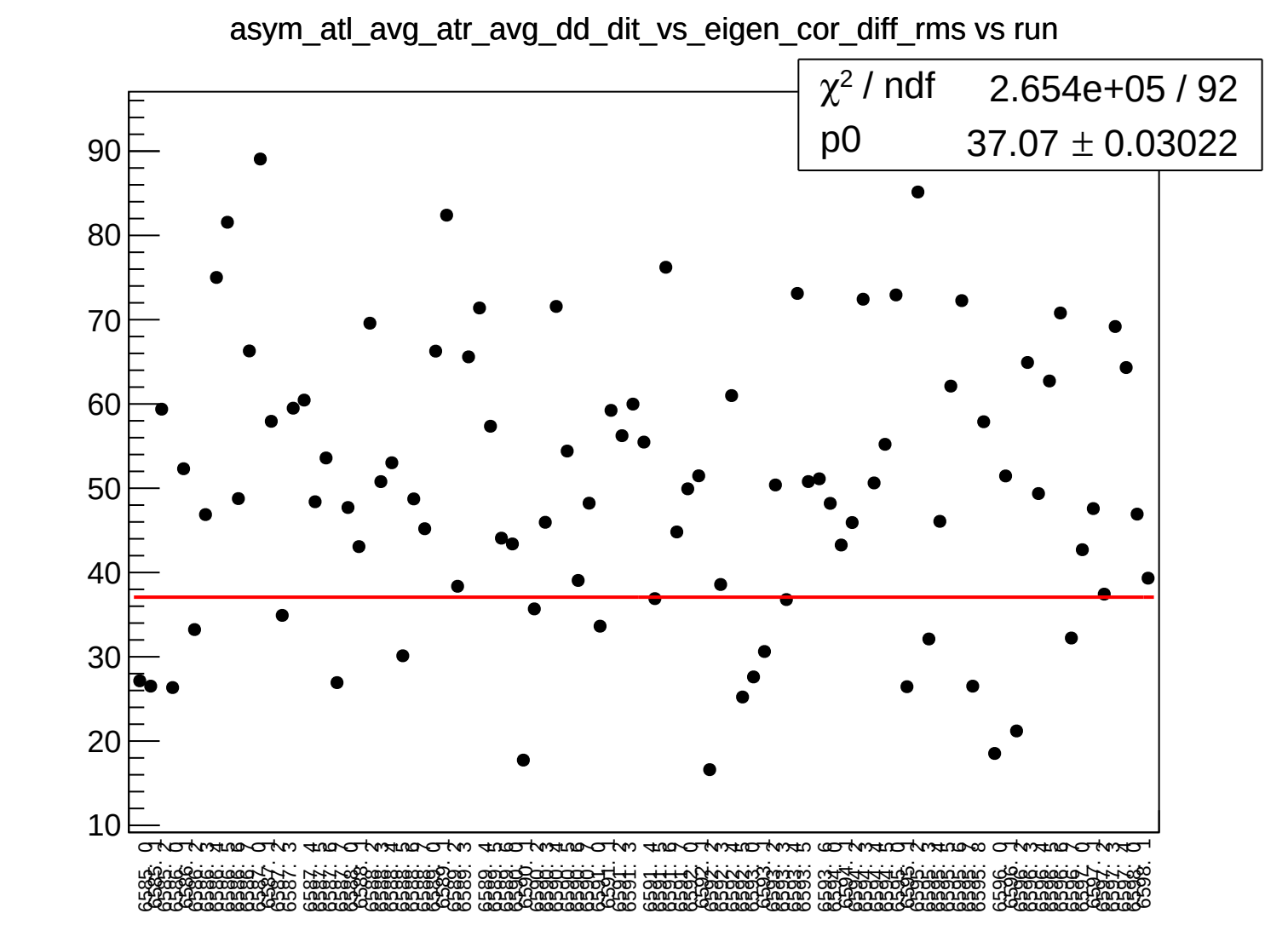

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.54 / 92
p0 −0.01108 ± 0.04274
pull
Entries 93
Mean 21.5
Std Dev 0

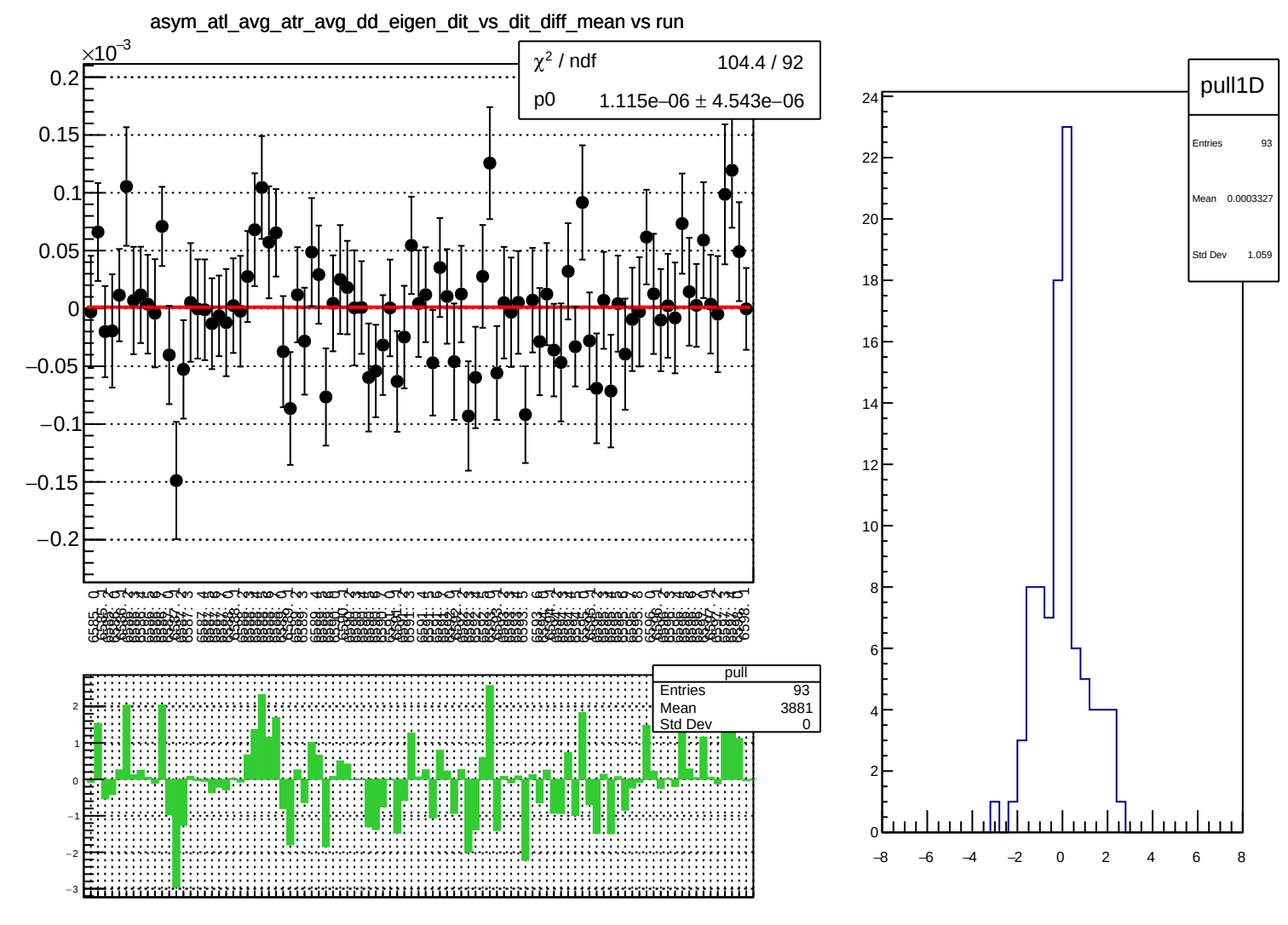

pull1D
Entries 93
Mean −0.04949
Std Dev 0.9909

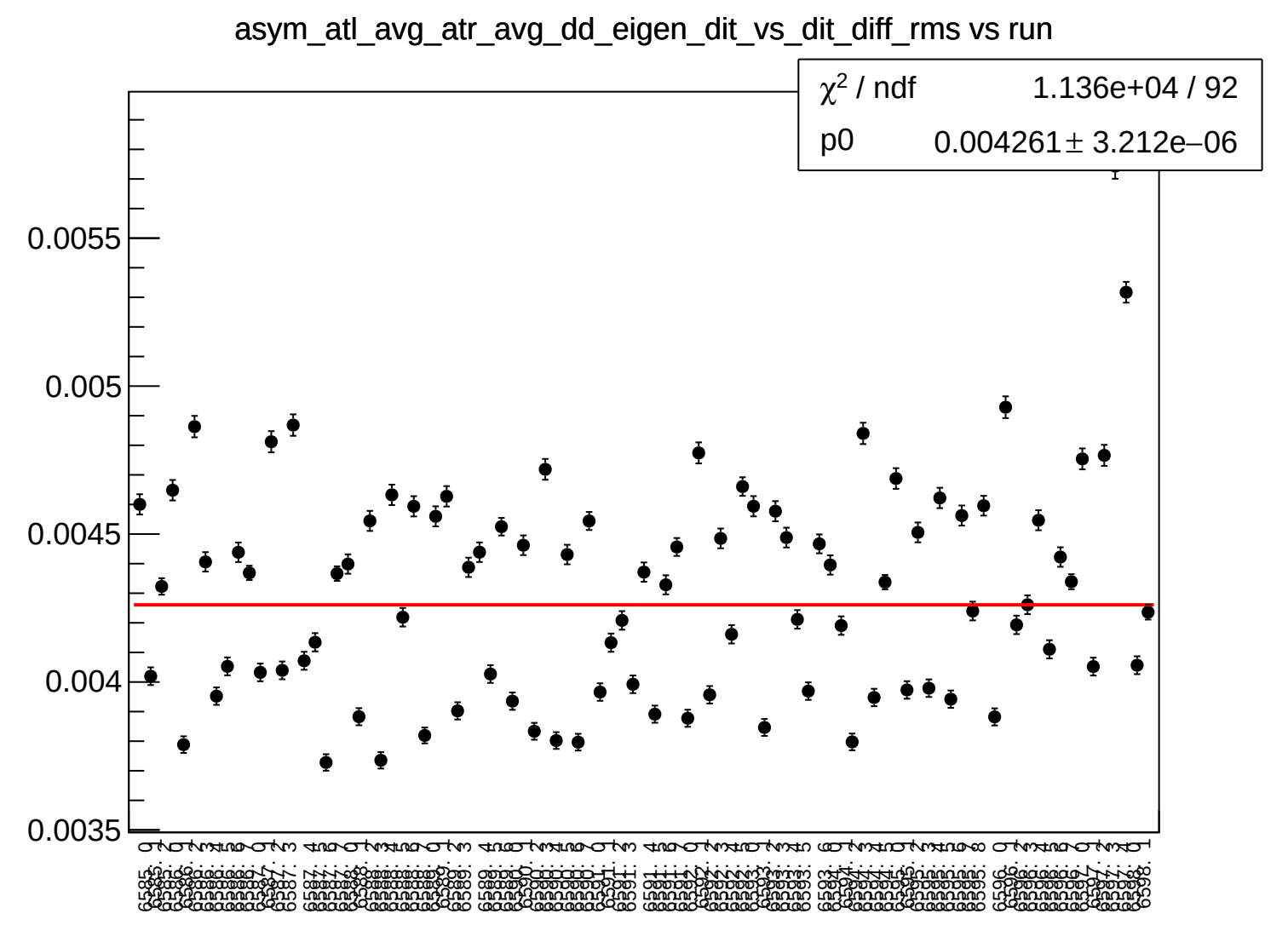

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 92
p0 37.07 ± 0.03022
90
80
70
60
50
40
30
20
10

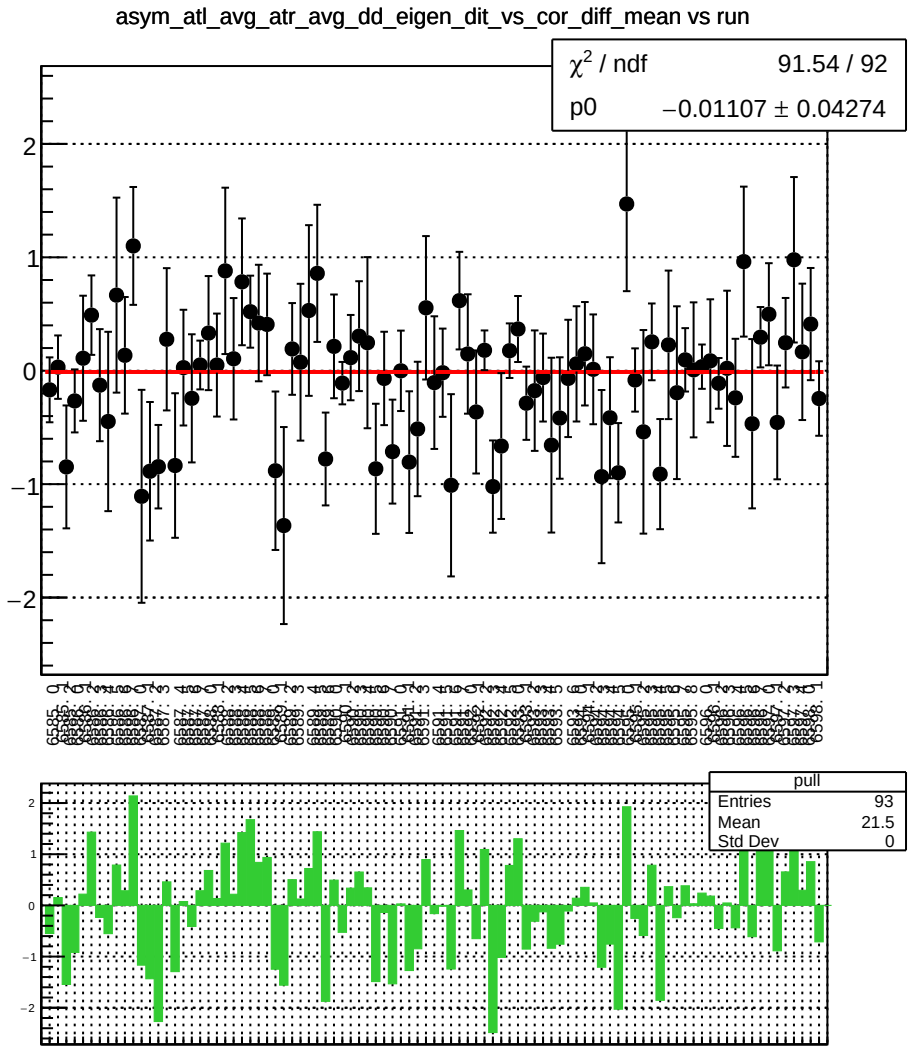

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.54 / 92
p0 −0.01108 ± 0.04274
pull
Entries 93
Mean 21.5
Std Dev 0

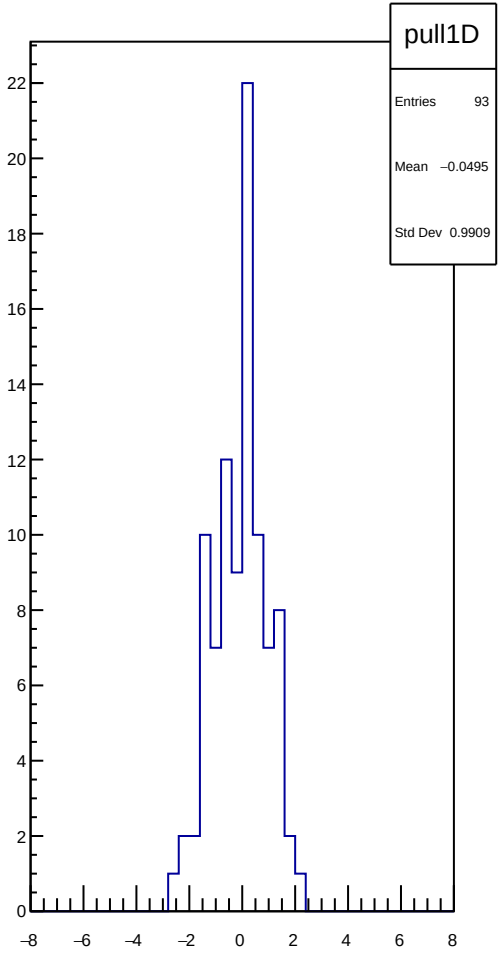

pull1D
Entries 93
Mean −0.04949
Std Dev 0.9909

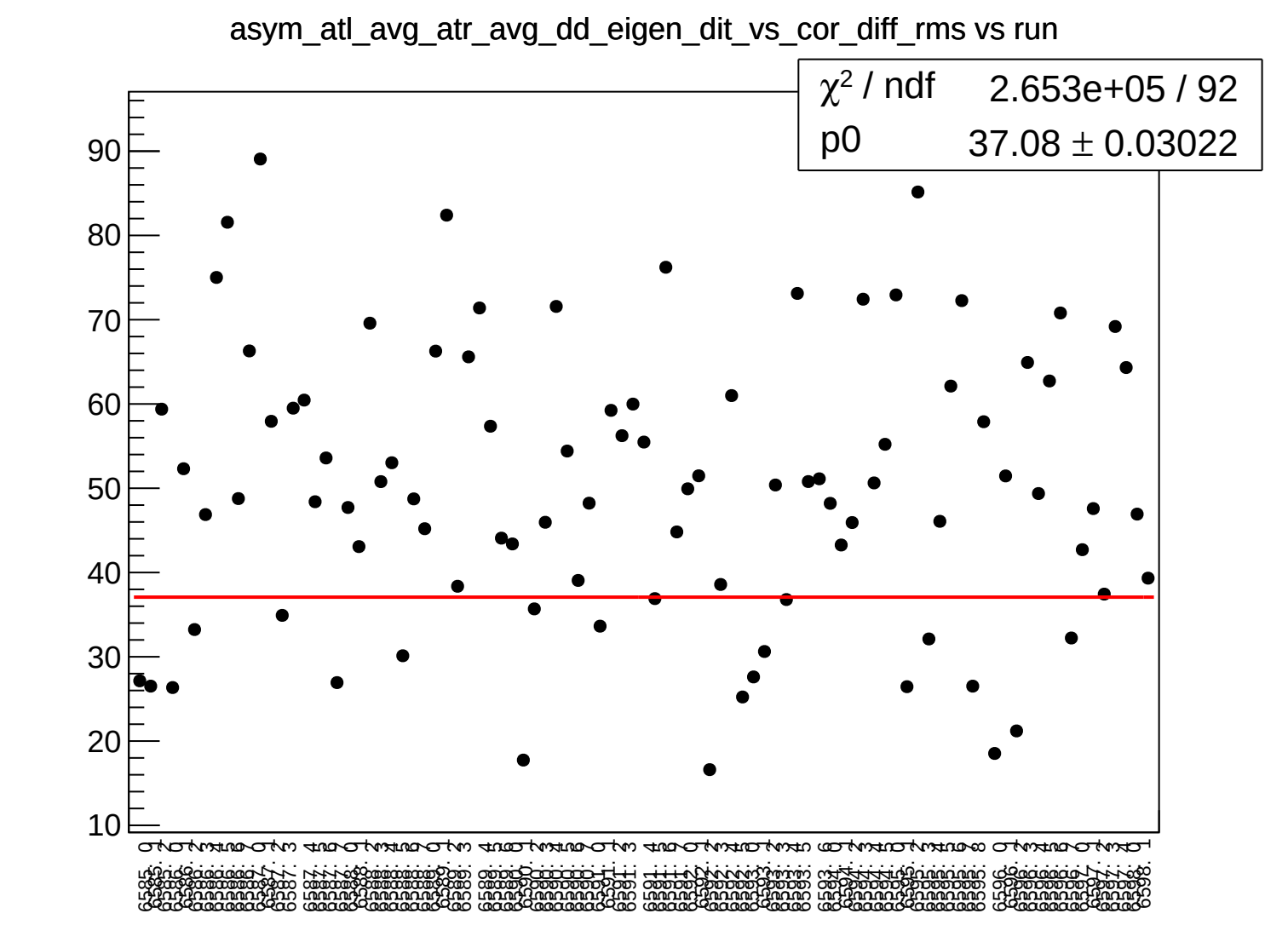

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 92
p0 37.07 ± 0.03022
90
80
70
60
50
40
30
20
10

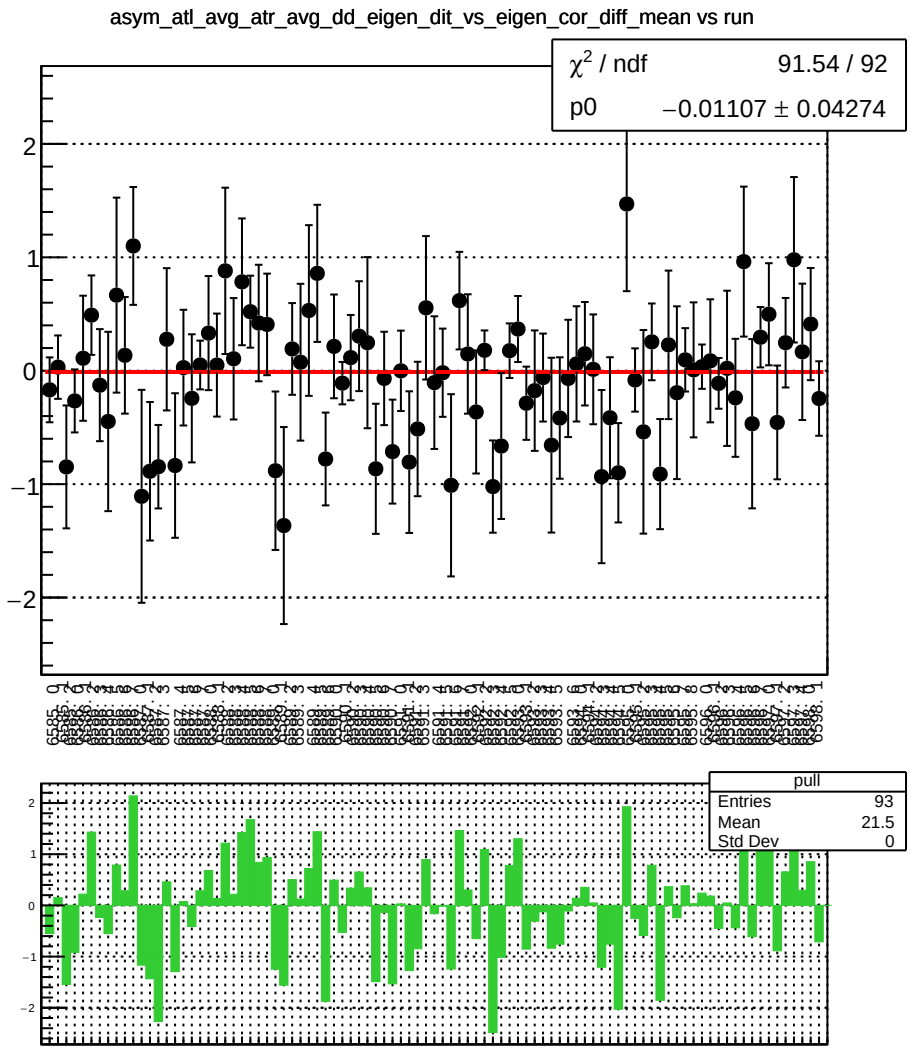

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.4 / 92
p0 1.115e−06 ± 4.543e−06
pull
Entries 93
Mean 3881
Std Dev 0
pull1D
Entries 93
Mean 0.0003327
Std Dev 1.059

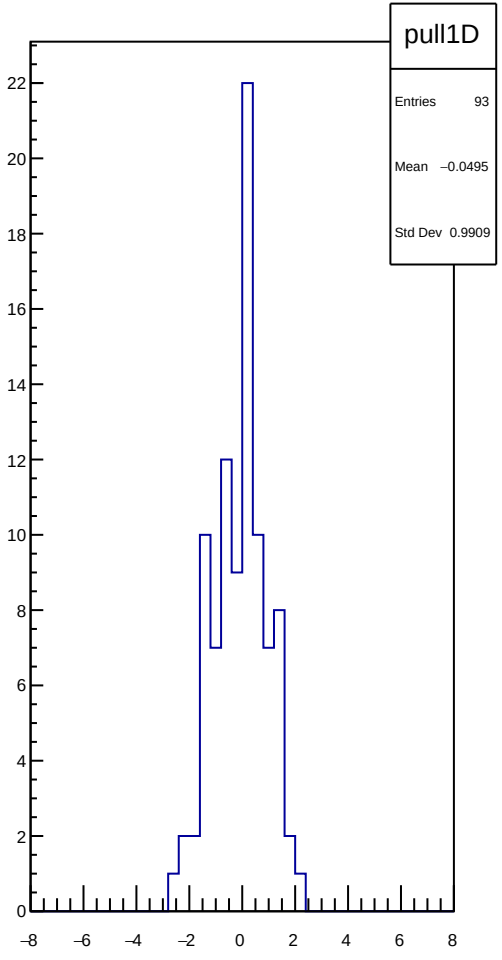

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.136e+04 / 92
p0 0.004261 ± 3.212e−06
0.0055
0.005
0.0045
0.004
0.0035

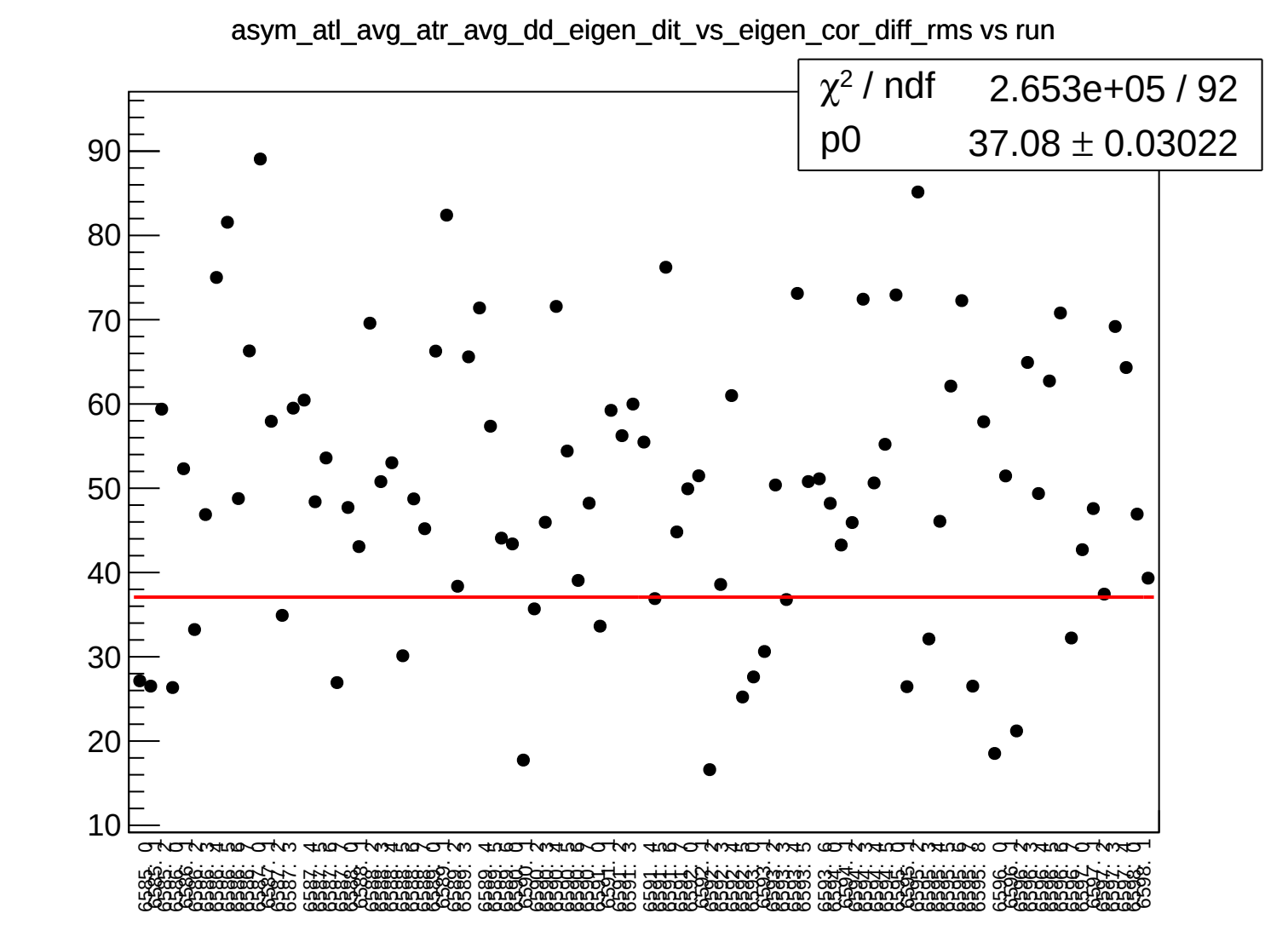

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.54 / 92
p0 −0.01107 ± 0.04274
pull
Entries 93
Mean 21.5
Std Dev 0

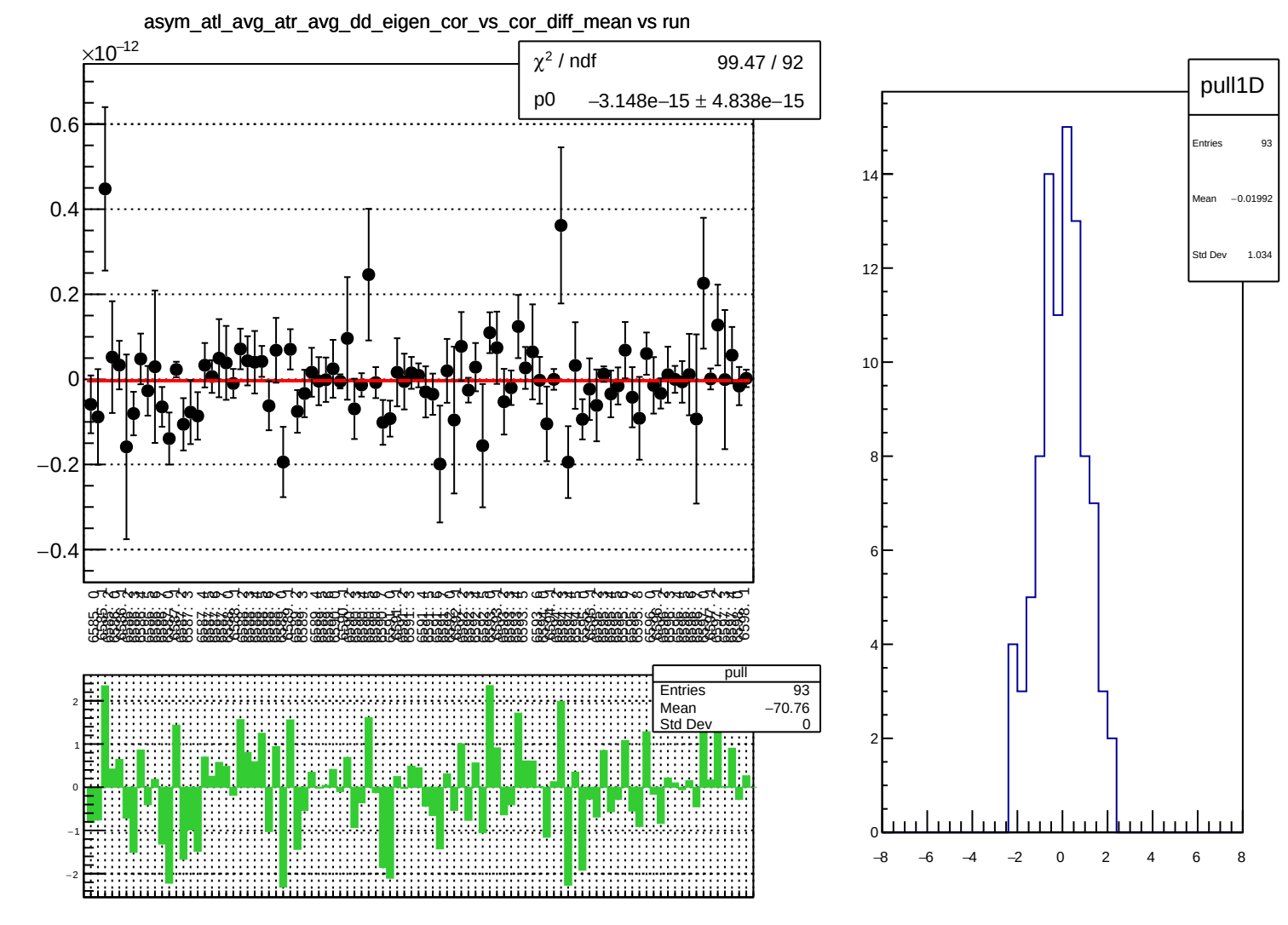

pull1D
Entries 93
Mean −0.0495
Std Dev 0.9909

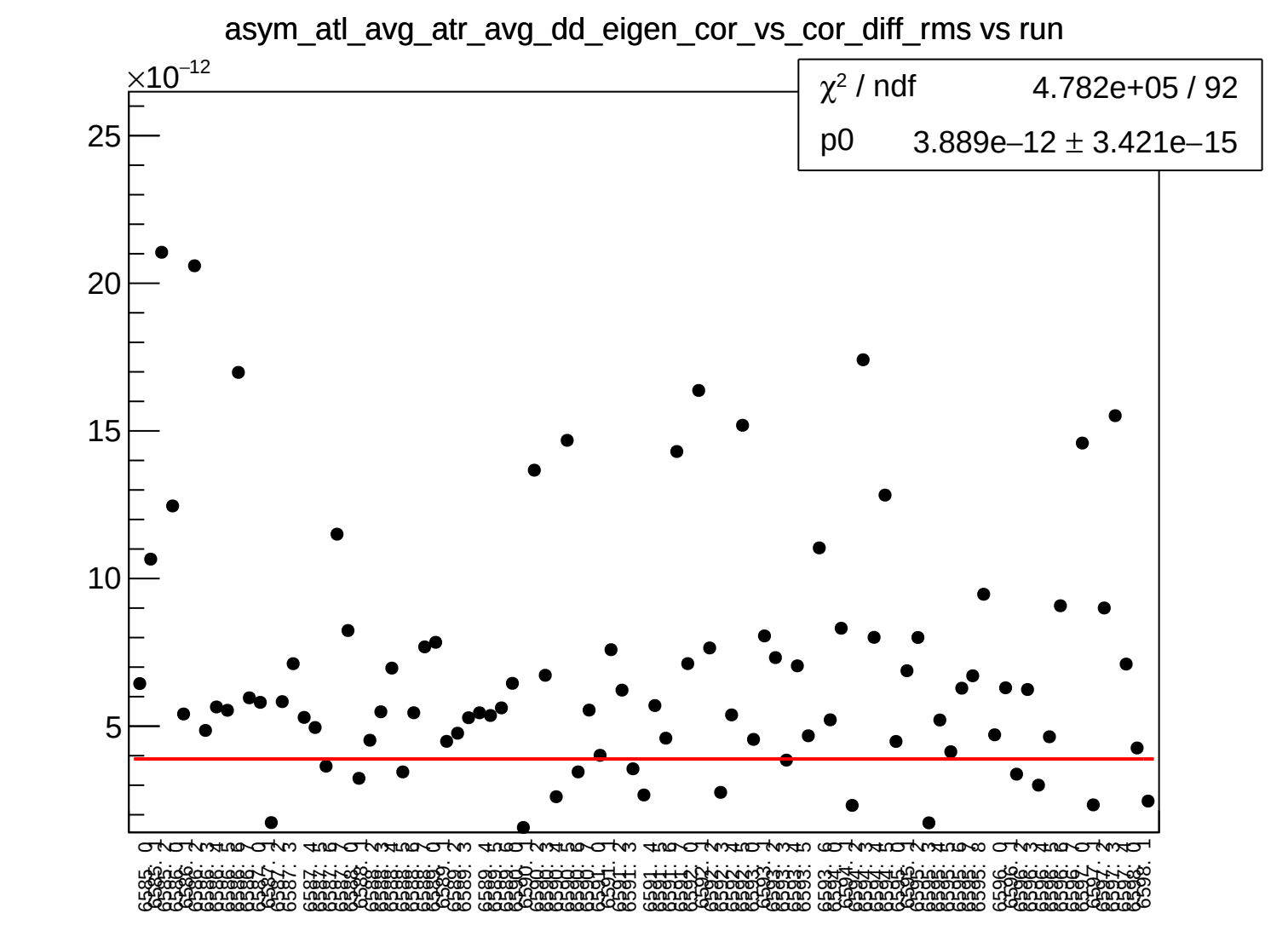

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.653e+05 / 92
p0 37.08 ± 0.03022
90
80
70
60
50
40
30
20
10

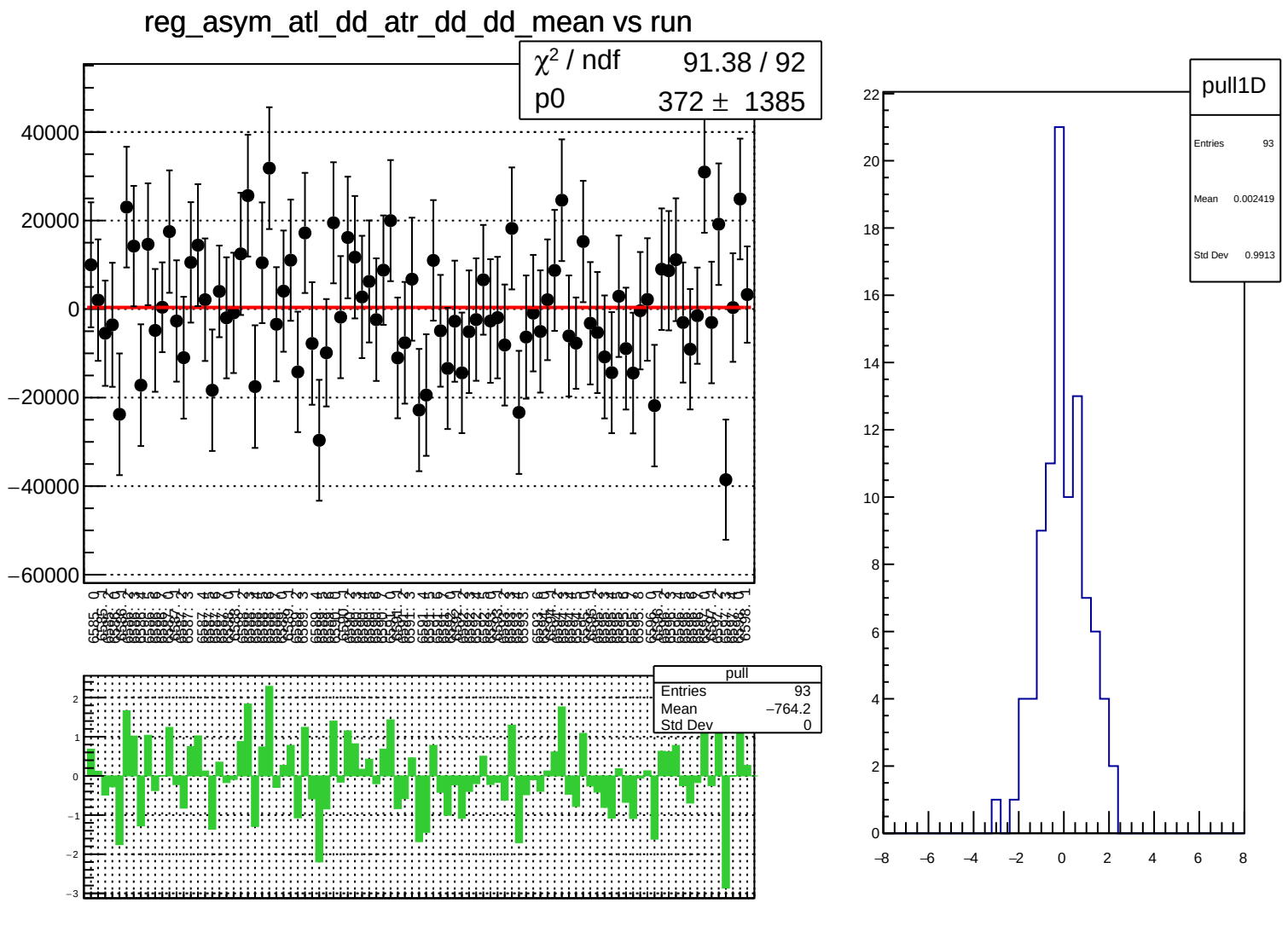

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.54 / 92
p0 −0.01107 ± 0.04274
pull
Entries 93
Mean 21.5
Std Dev 0

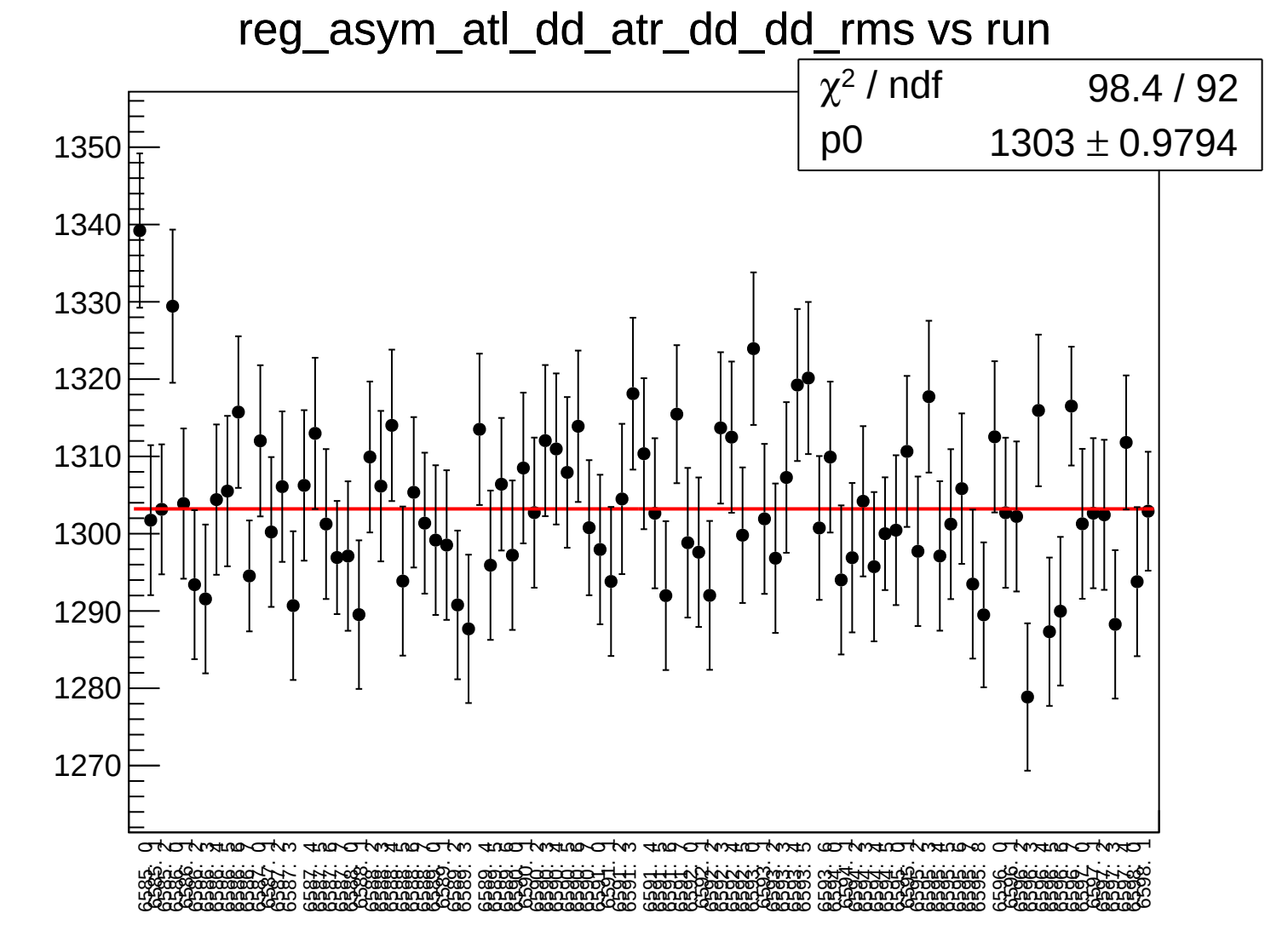

pull1D
Entries 93
Mean −0.0495
Std Dev 0.9909

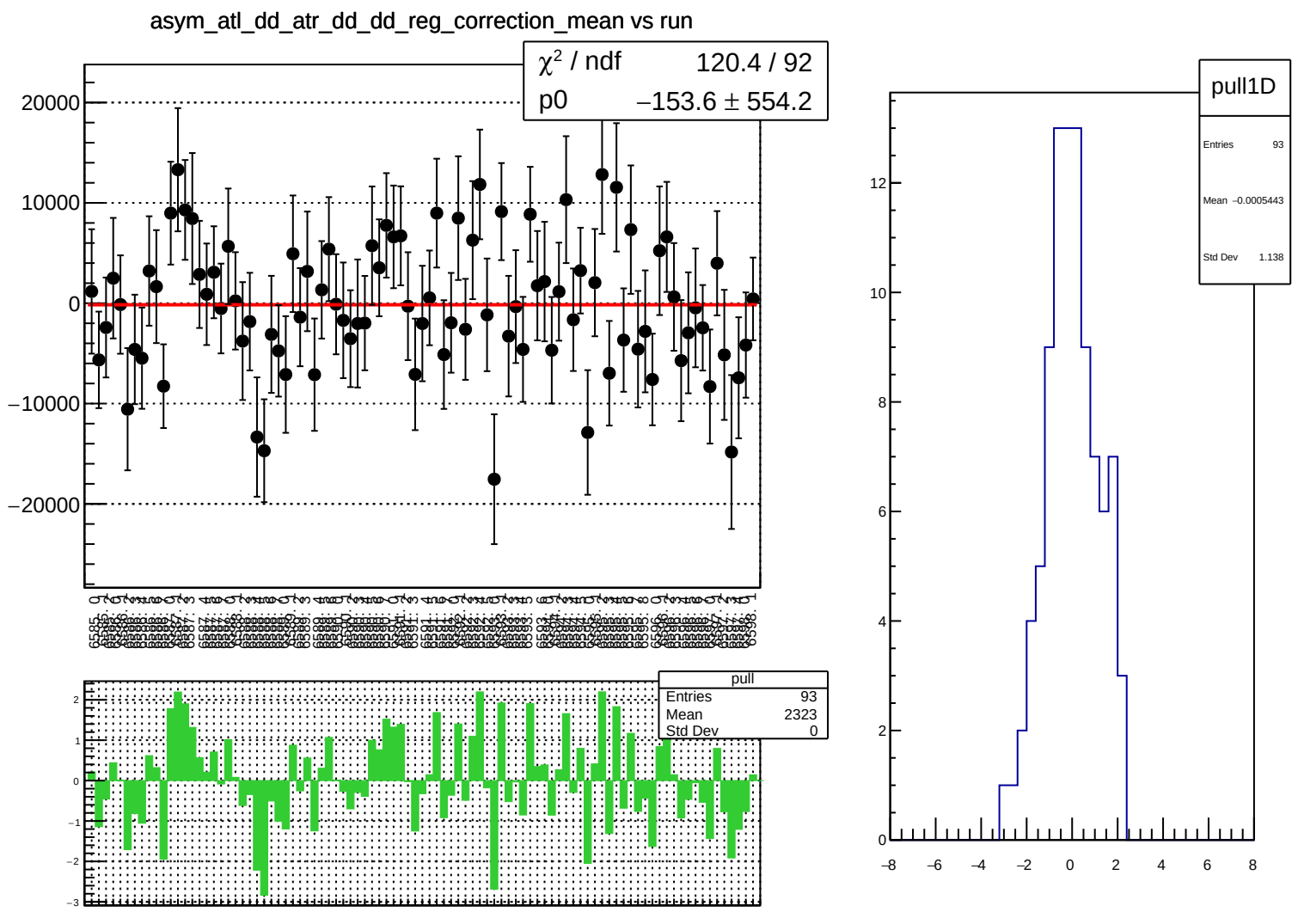

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.653e+05 / 92
p0 37.08 ± 0.03022
90
80
70
60
50
40
30
20
10

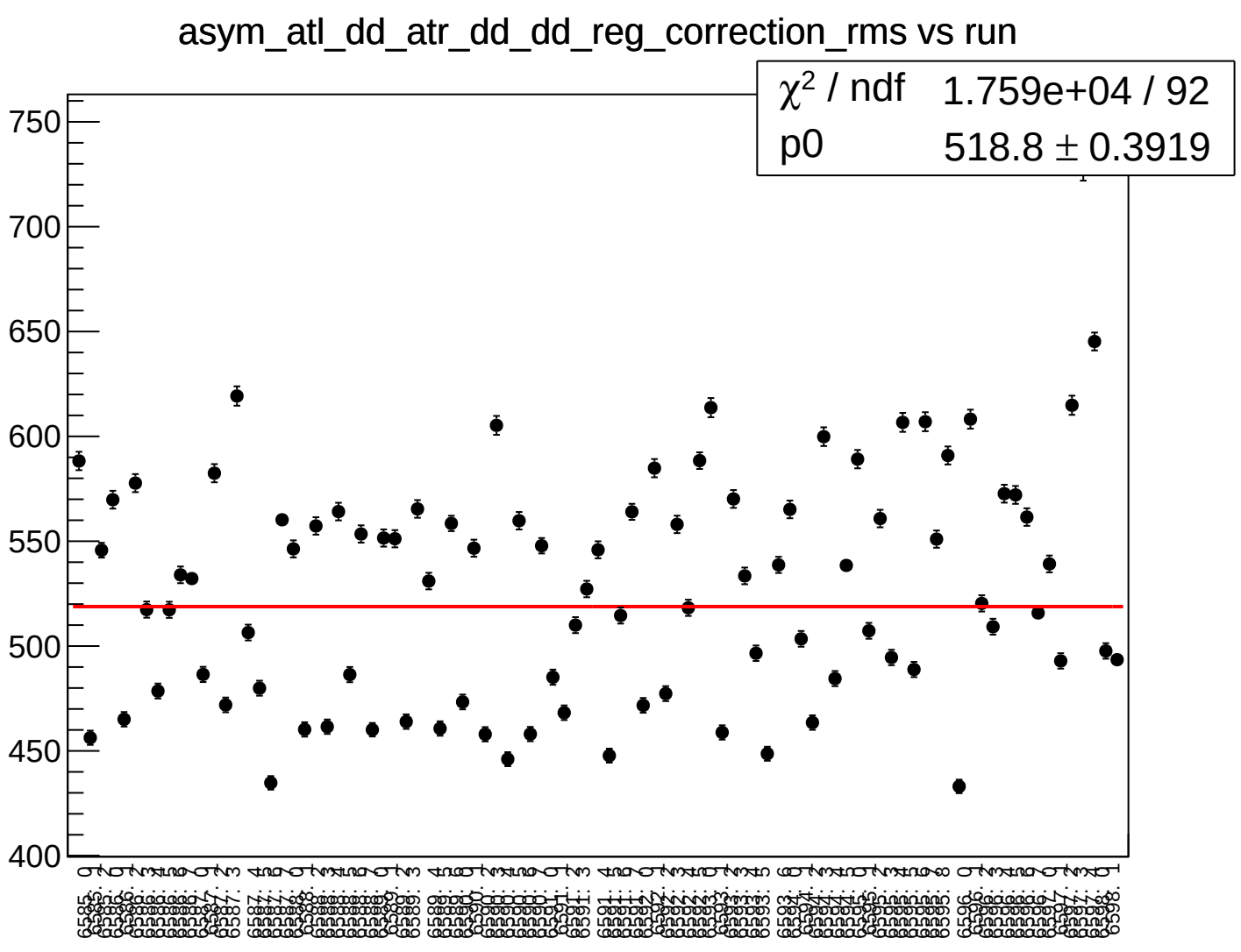

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.47 / 92
p0 −3.148e−15 ± 4.838e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean −70.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01992
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

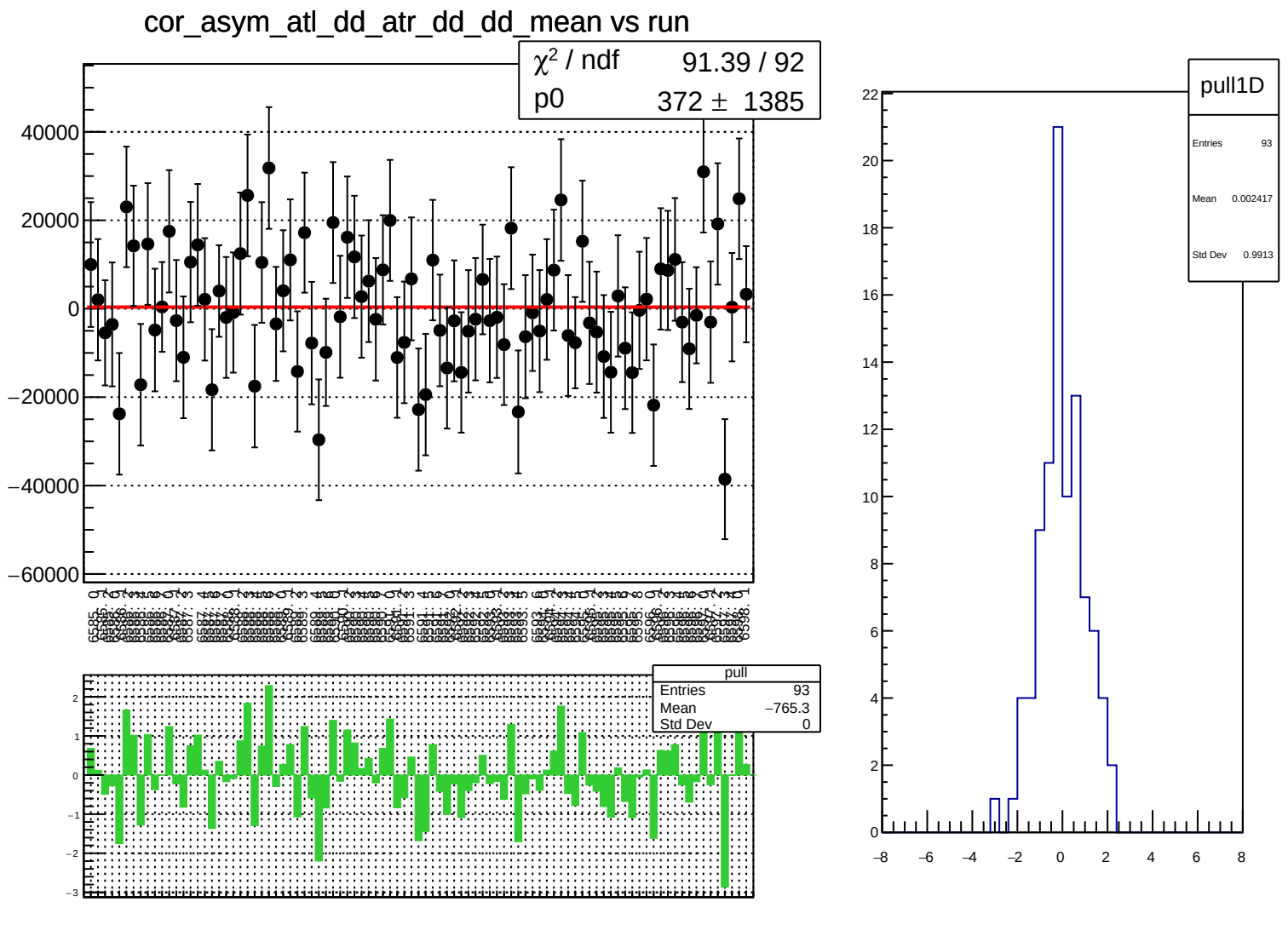

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.782e+05 / 92
p0 3.889e−12 ± 3.421e−15
25
20
15
10
5

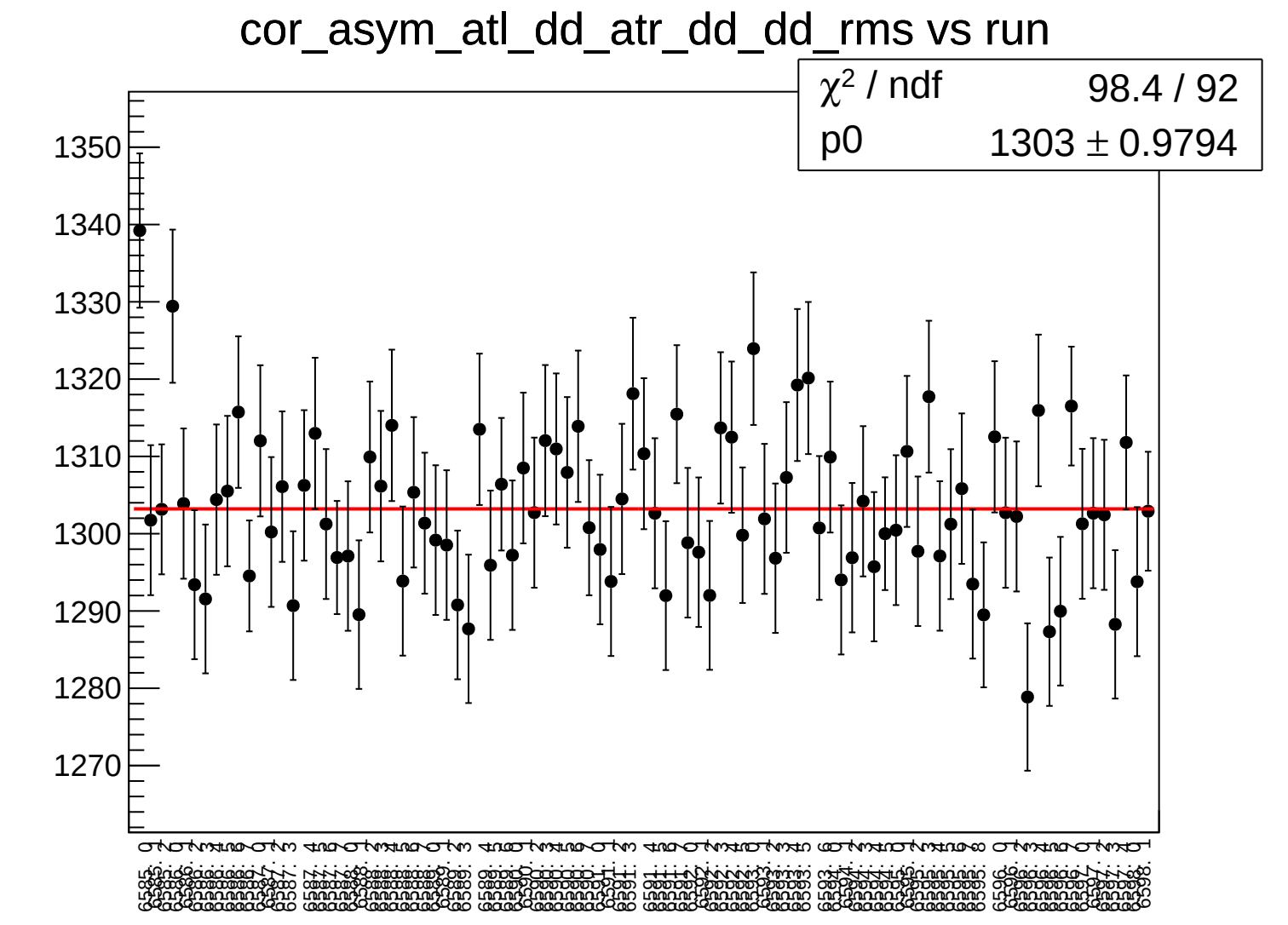

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.38 / 92
p0 372 ± 1385
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −764.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002419
Std Dev 0.9913
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

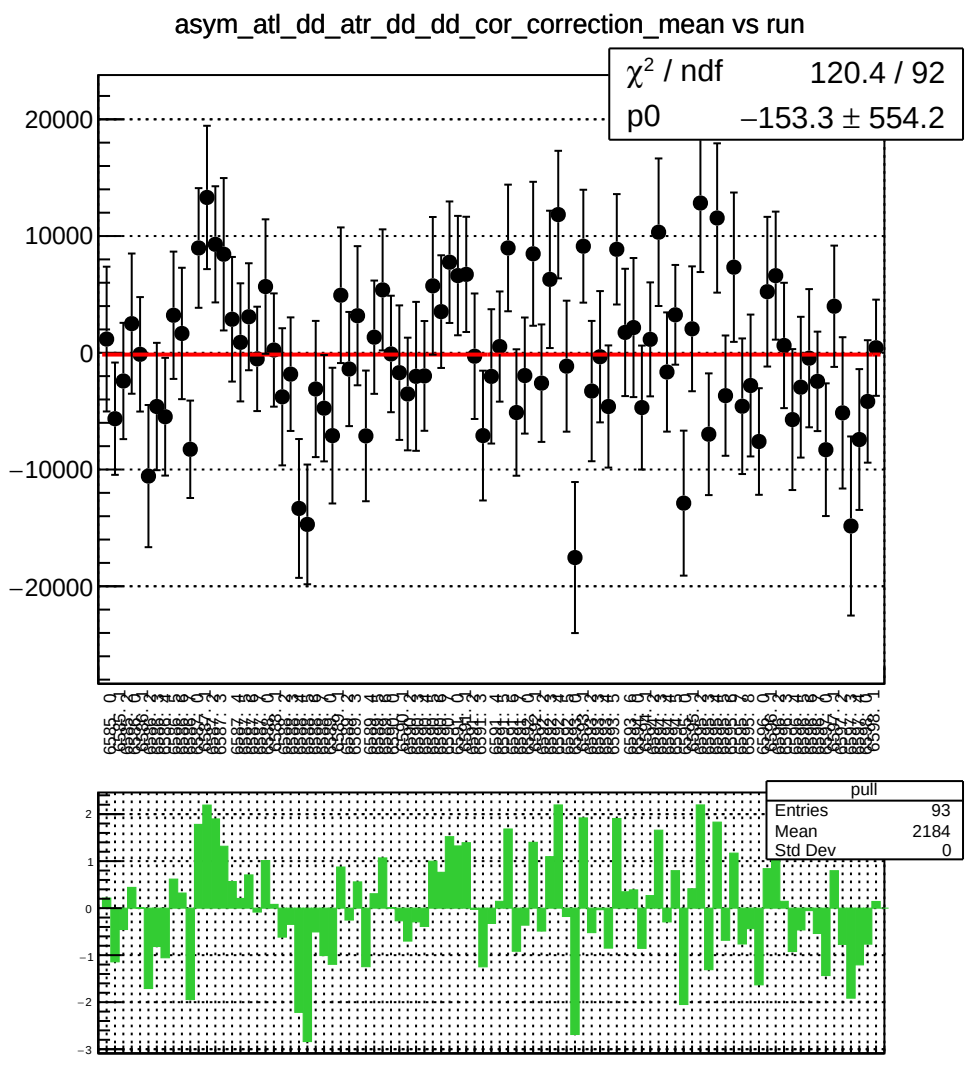

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 98.4 / 92
p0 1303 ± 0.9794
1350
1340
1330
1320
1310
1300
1290
1280
1270

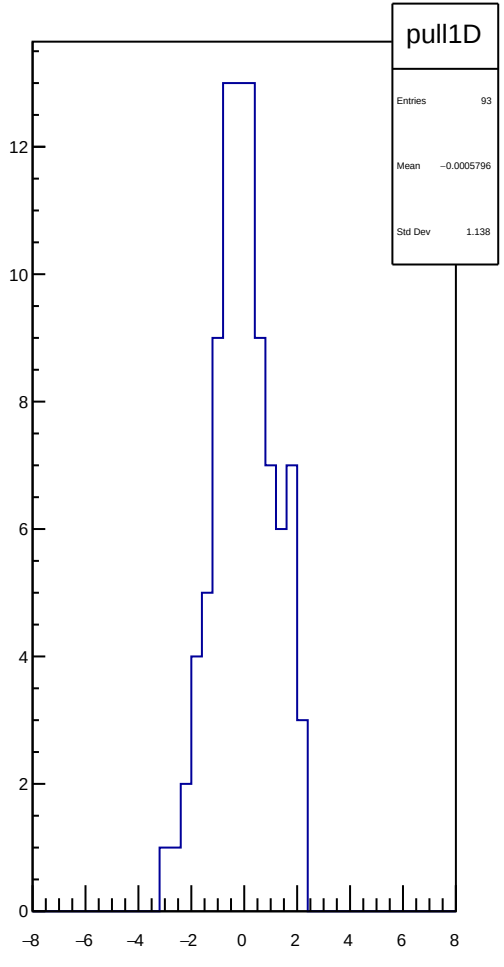

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 120.4 / 92
p0 −153.6 ± 554.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 2323
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.0005443
Std Dev 1.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

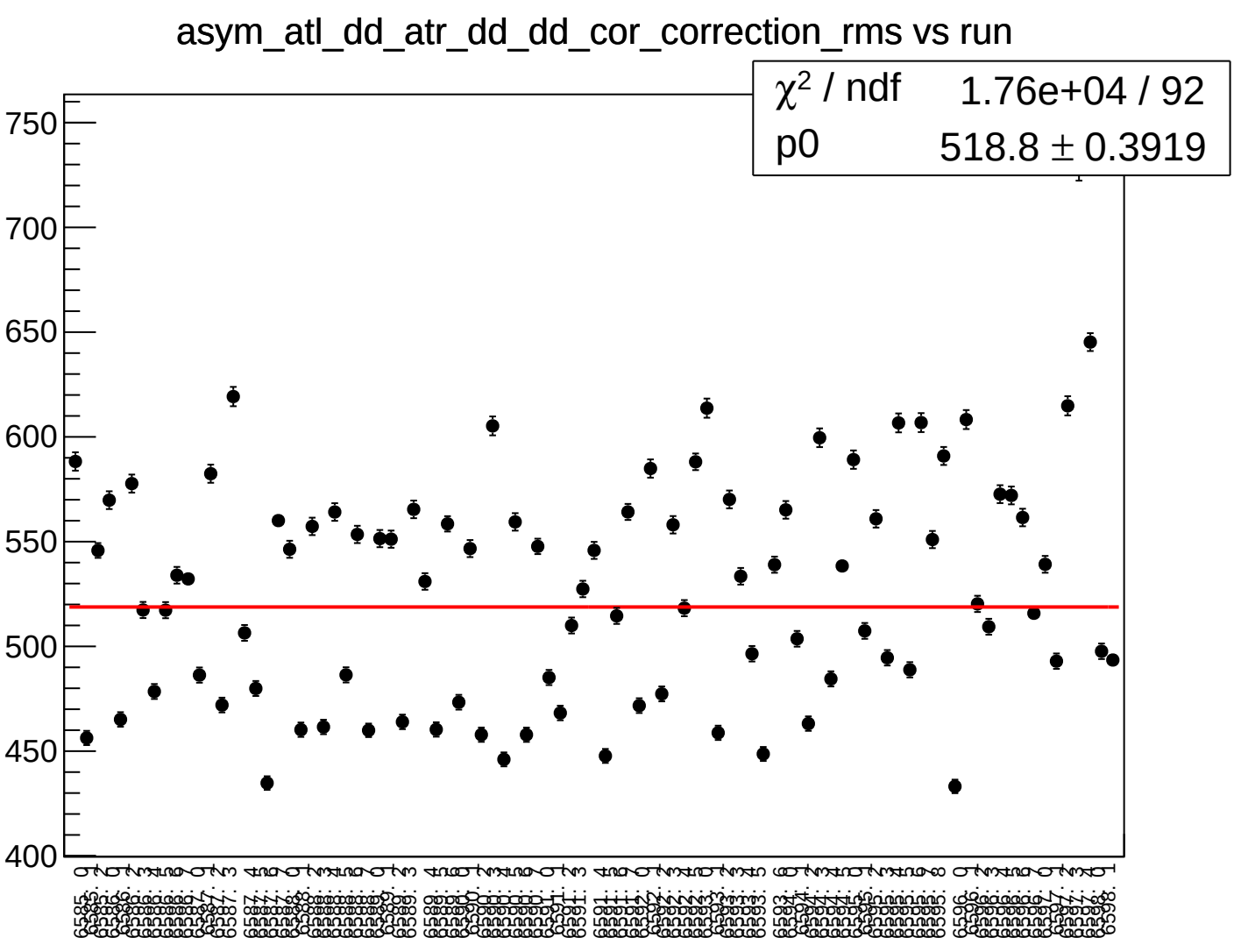

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.759e+04 / 92
p0 518.8 ± 0.3919
750
700
650
600
550
500
450
400

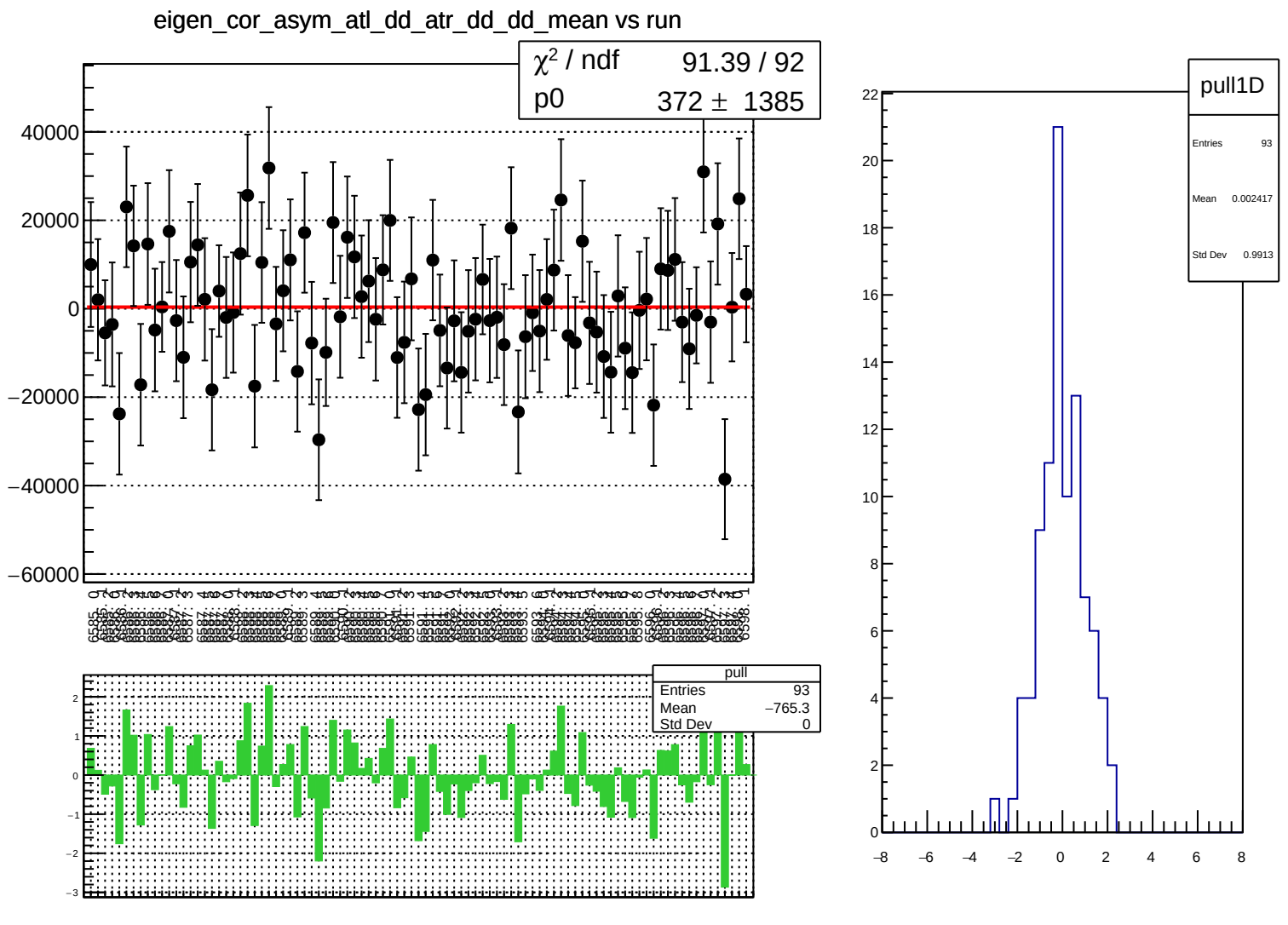

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.39 / 92
p0 372 ± 1385
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −765.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002417
Std Dev 0.9913
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 98.4 / 92
p0 1303 ± 0.9794
1350
1340
1330
1320
1310
1300
1290
1280
1270


asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 120.4 / 92
p0 −153.3 ± 554.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 2184
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.0005796
Std Dev 1.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.76e+04 / 92
p0 518.8 ± 0.3919
750
700
650
600
550
500
450
400


eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.39 / 92
p0 372 ± 1385
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −765.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002417
Std Dev 0.9913
22
20
18
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6
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2
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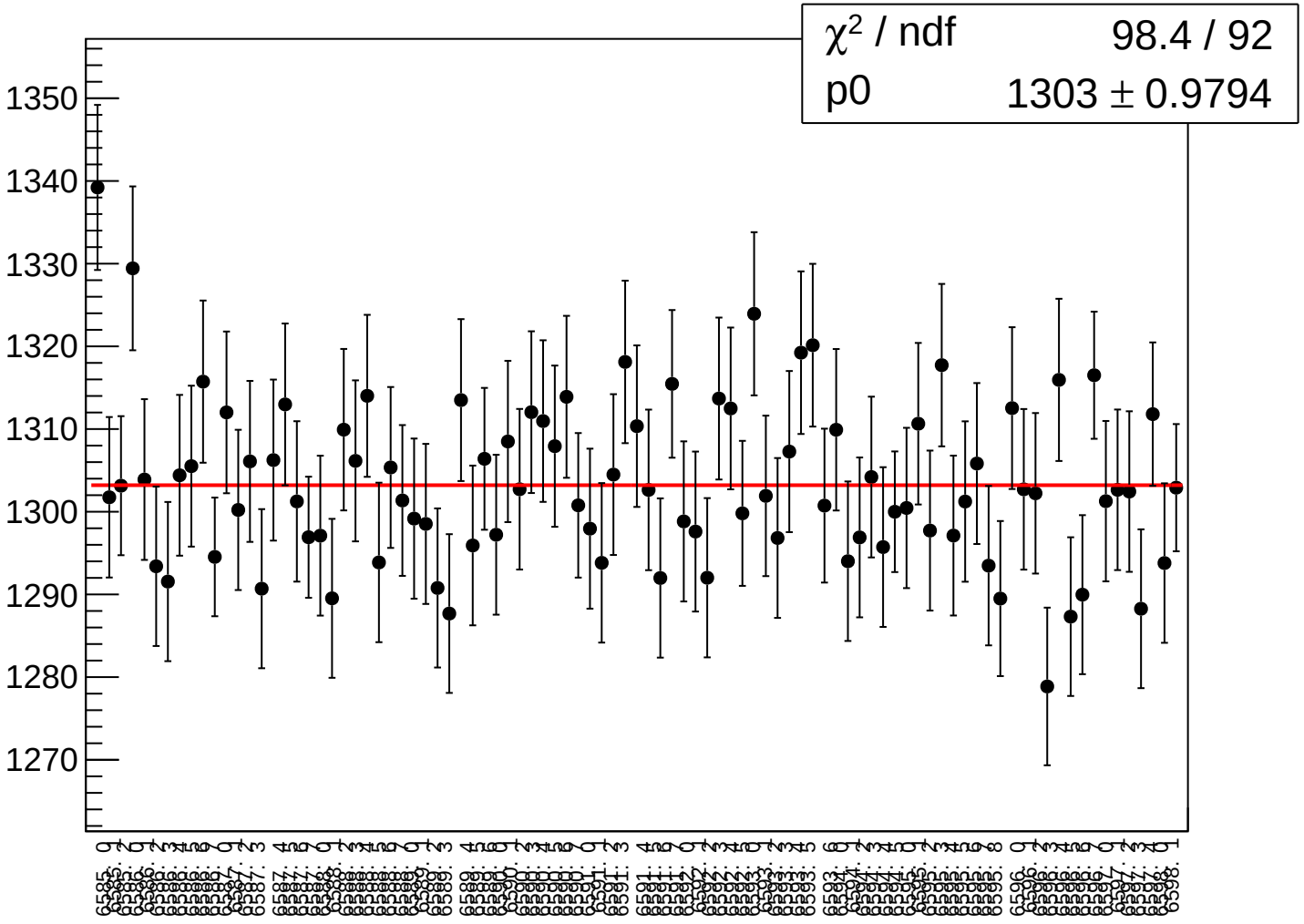
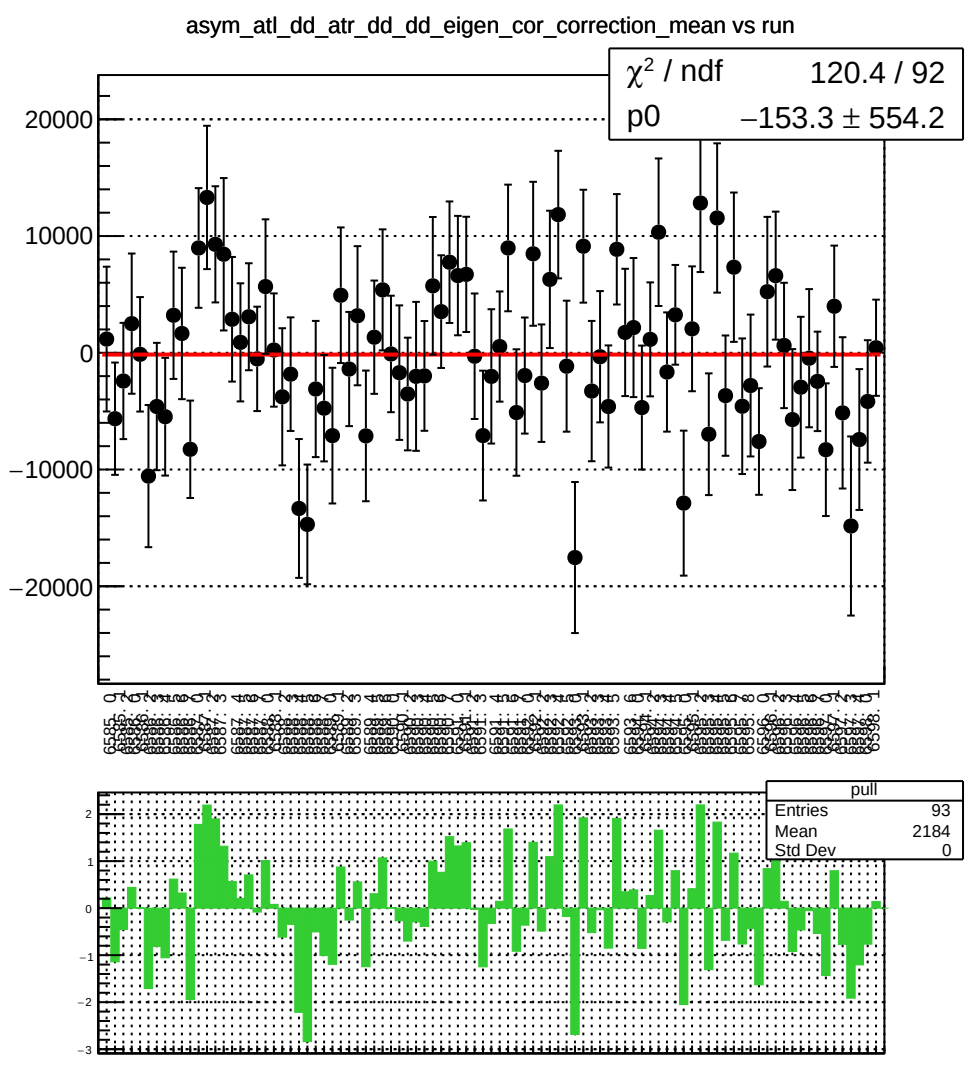
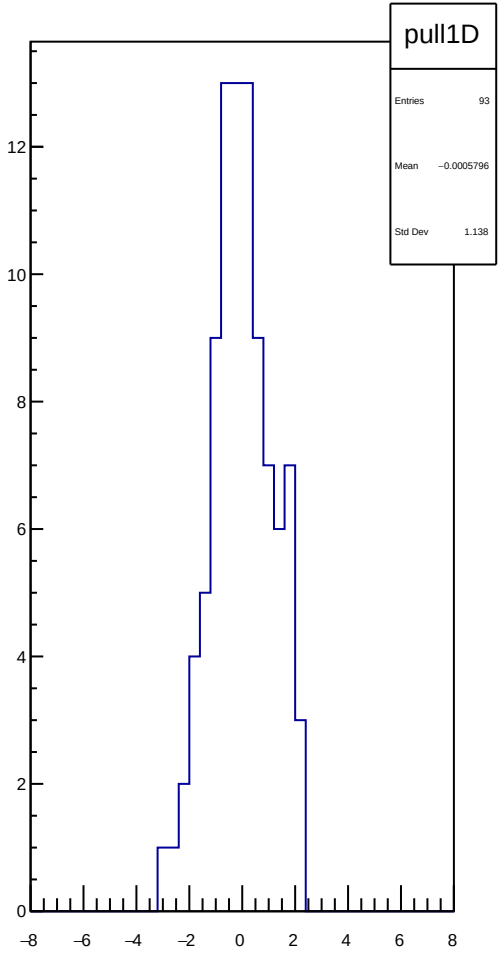

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 98.4 / 92
p0 1303 ± 0.9794
1350
1340
1330
1320
1310
1300
1290
1280
1270


asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 120.4 / 92
p0 −153.3 ± 554.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 2184
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.0005796
Std Dev 1.138
12
10
8
6
4
2
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−4
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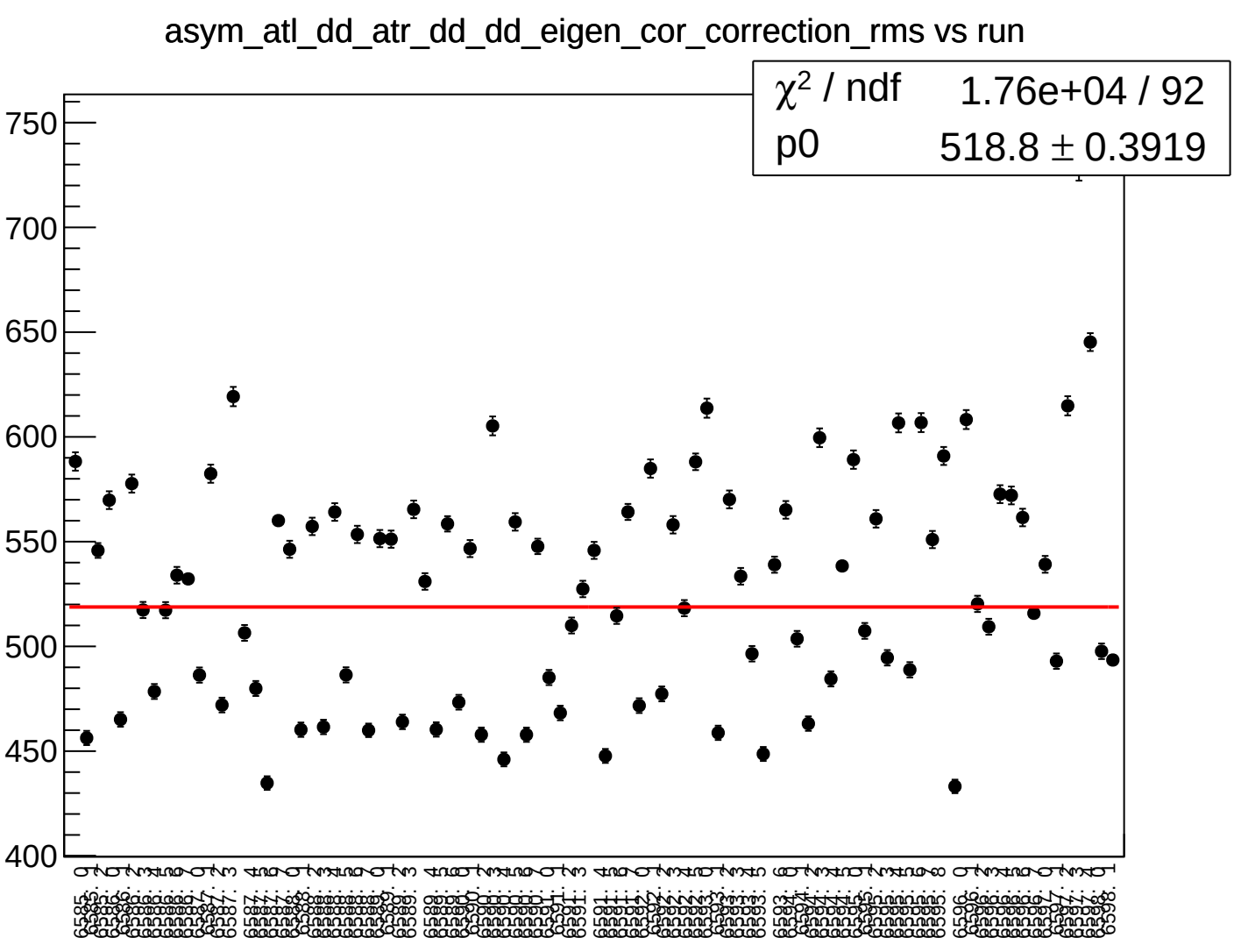
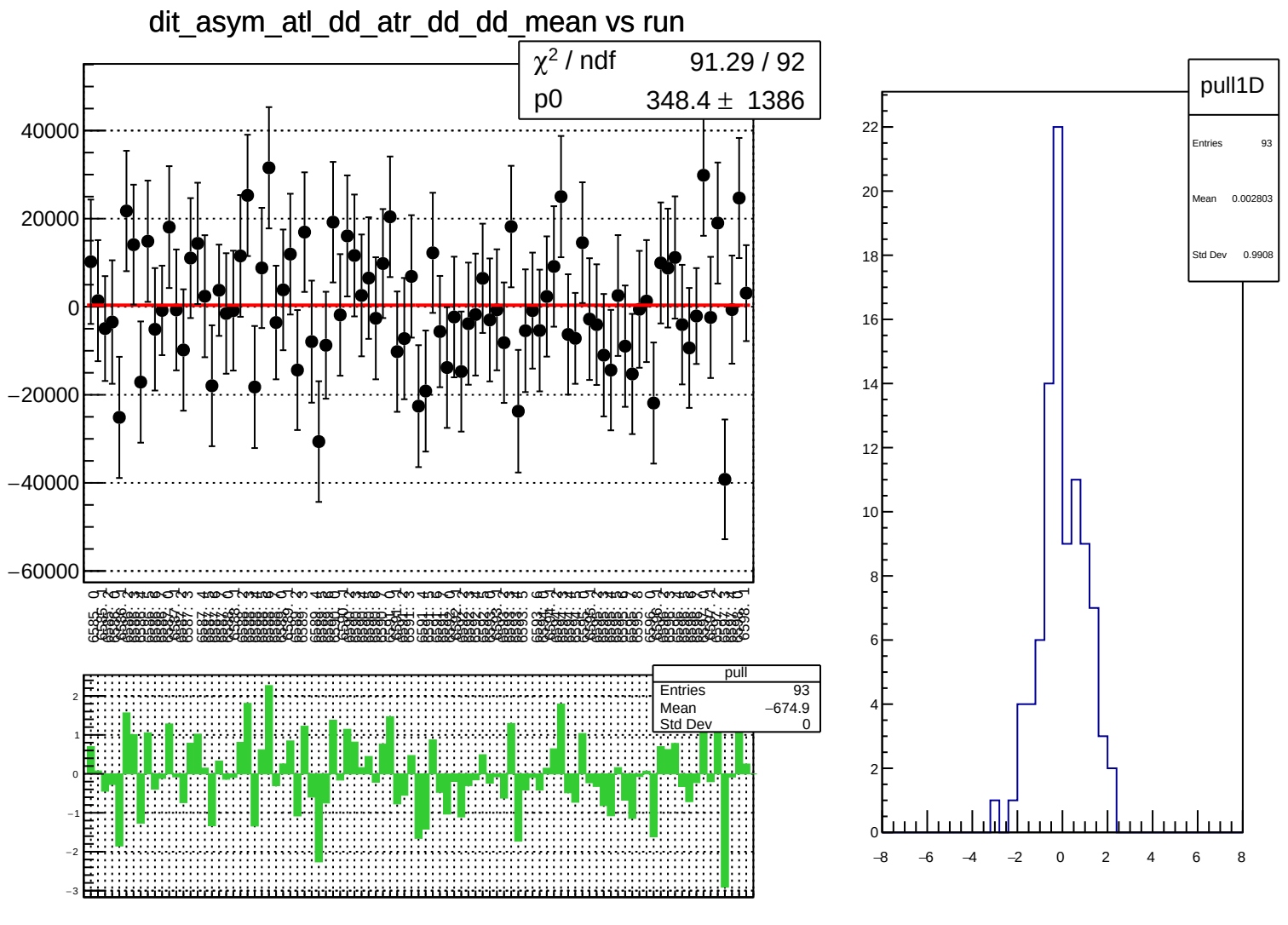
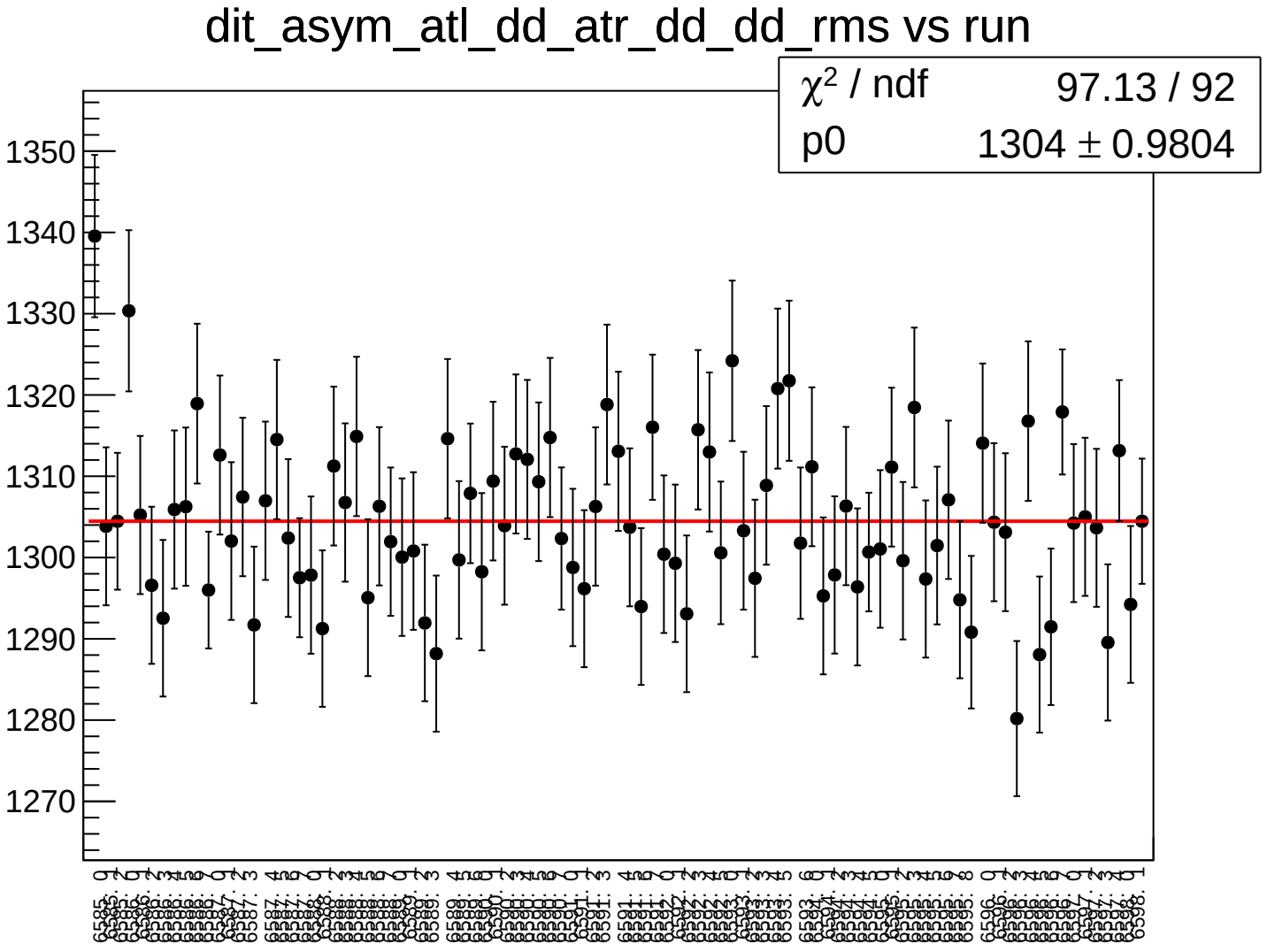
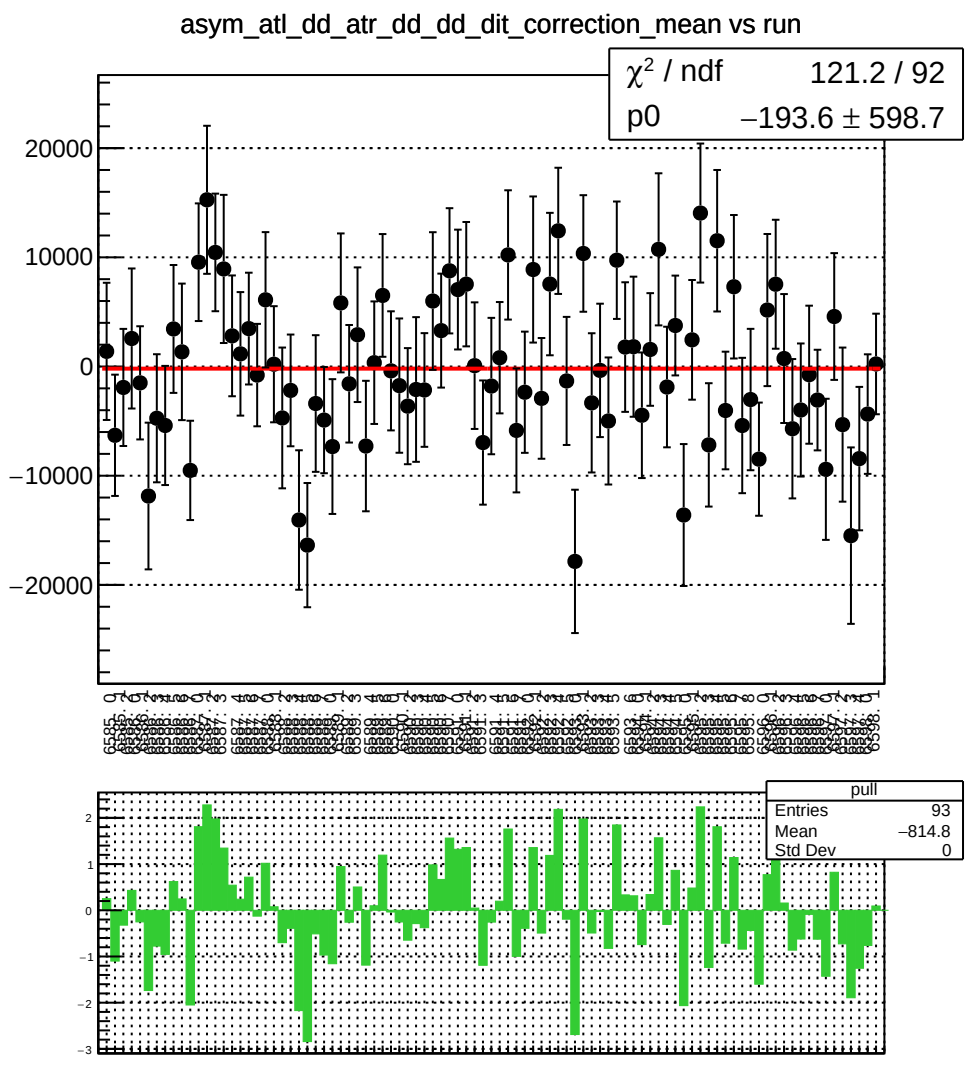
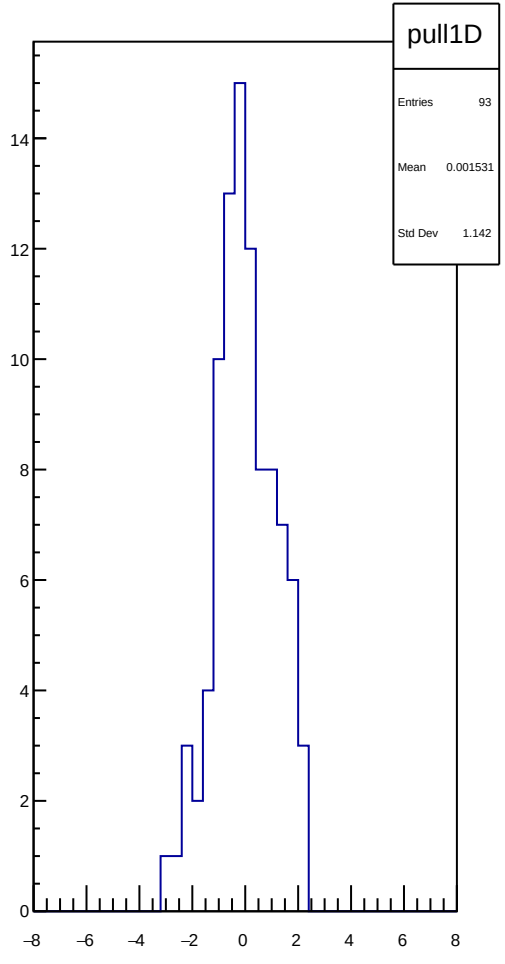
2
4
6
8

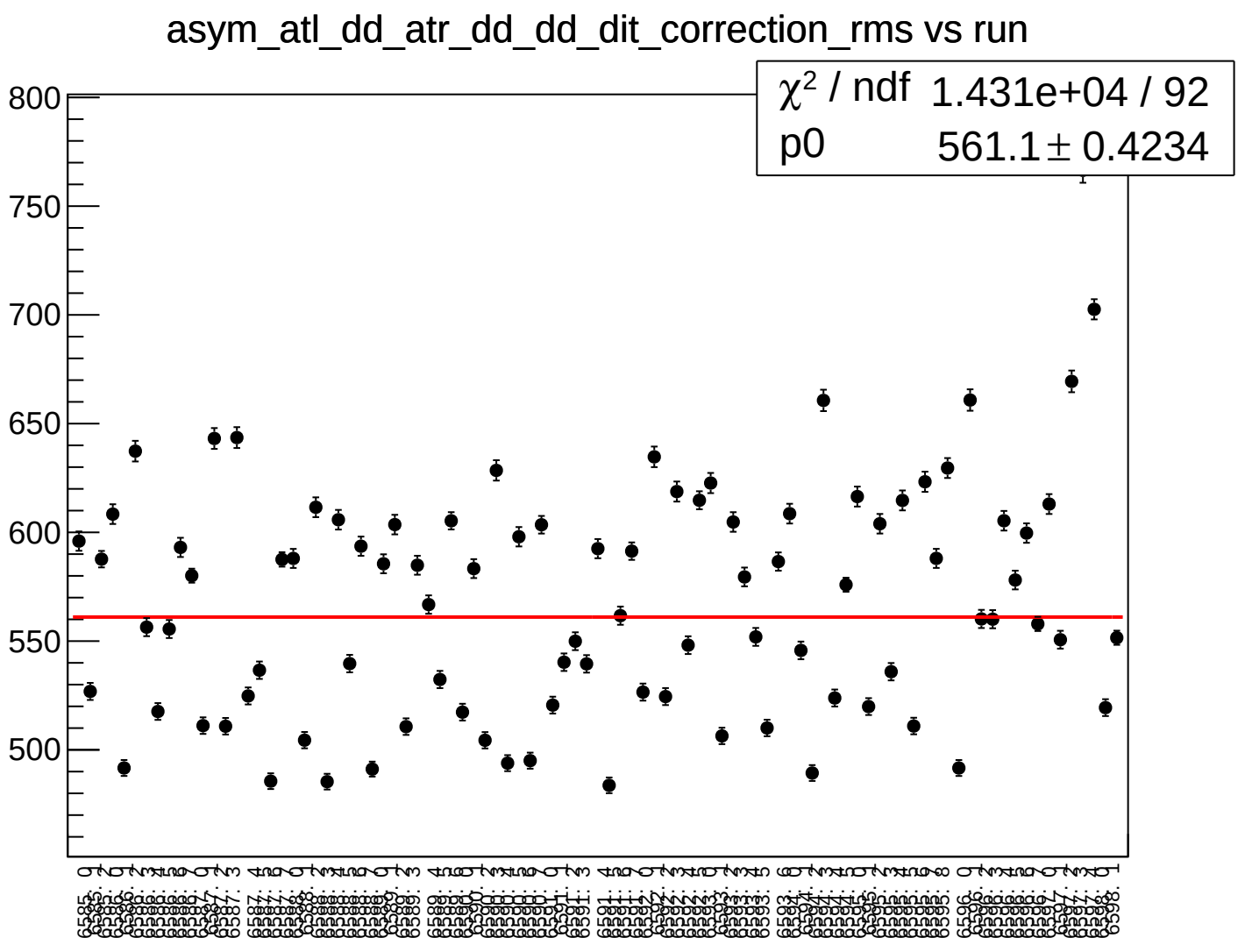

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.76e+04 / 92
p0 518.8 ± 0.3919
750
700
650
600
550
500
450
400

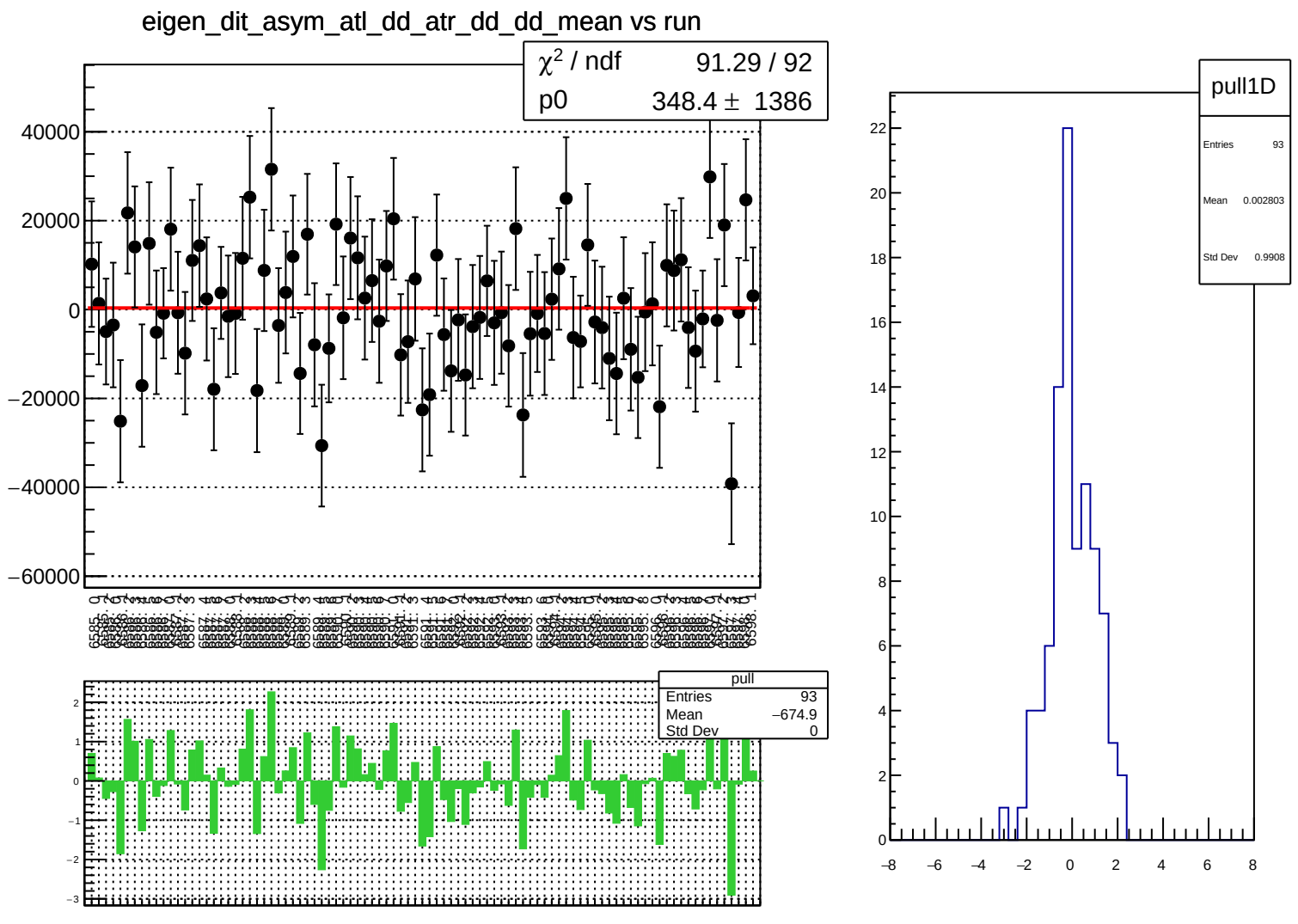

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.29 / 92
p0 348.4 ± 1386
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −674.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002803
Std Dev 0.9908
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

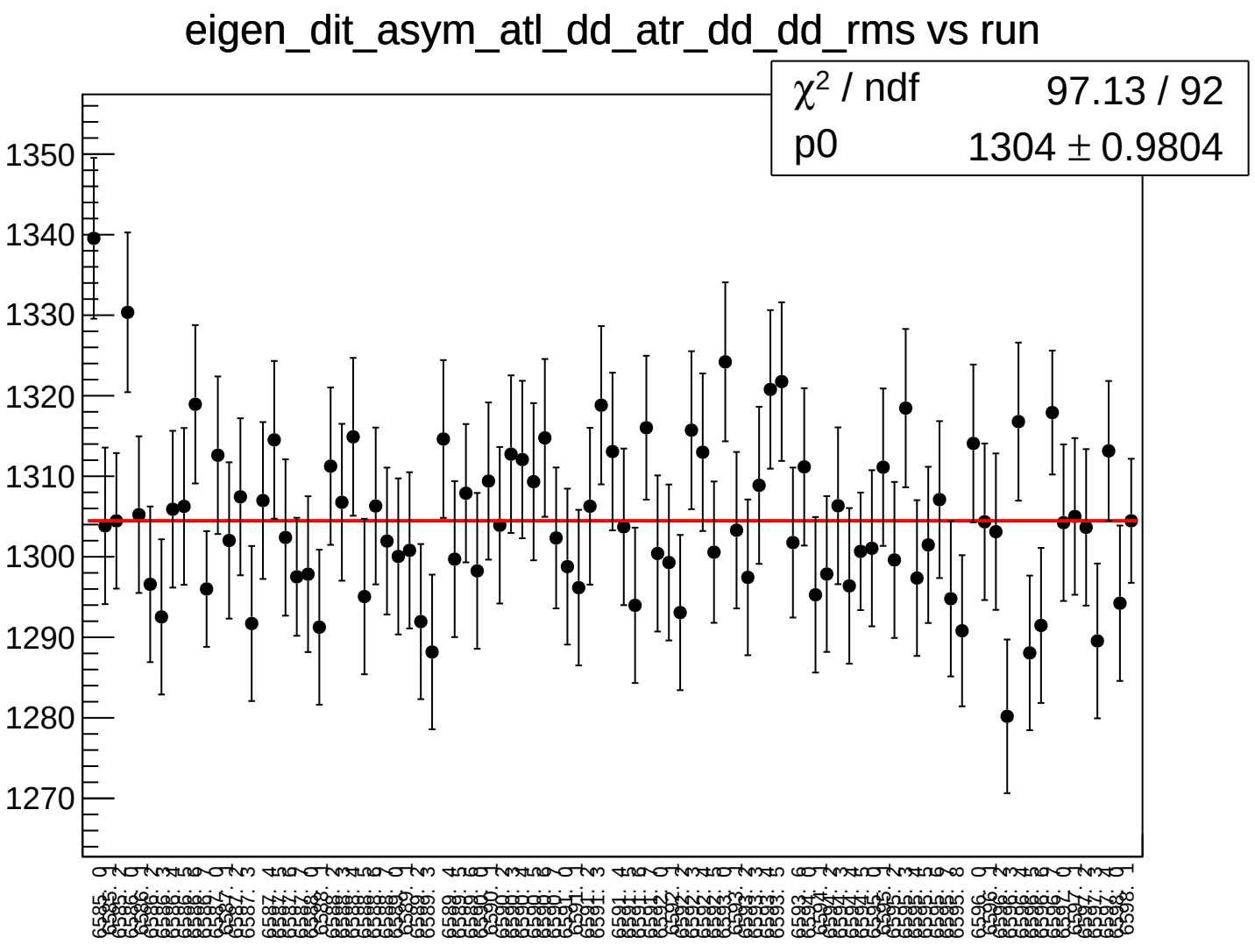

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 97.13 / 92
p0 1304 ± 0.9804
1350
1340
1330
1320
1310
1300
1290
1280
1270

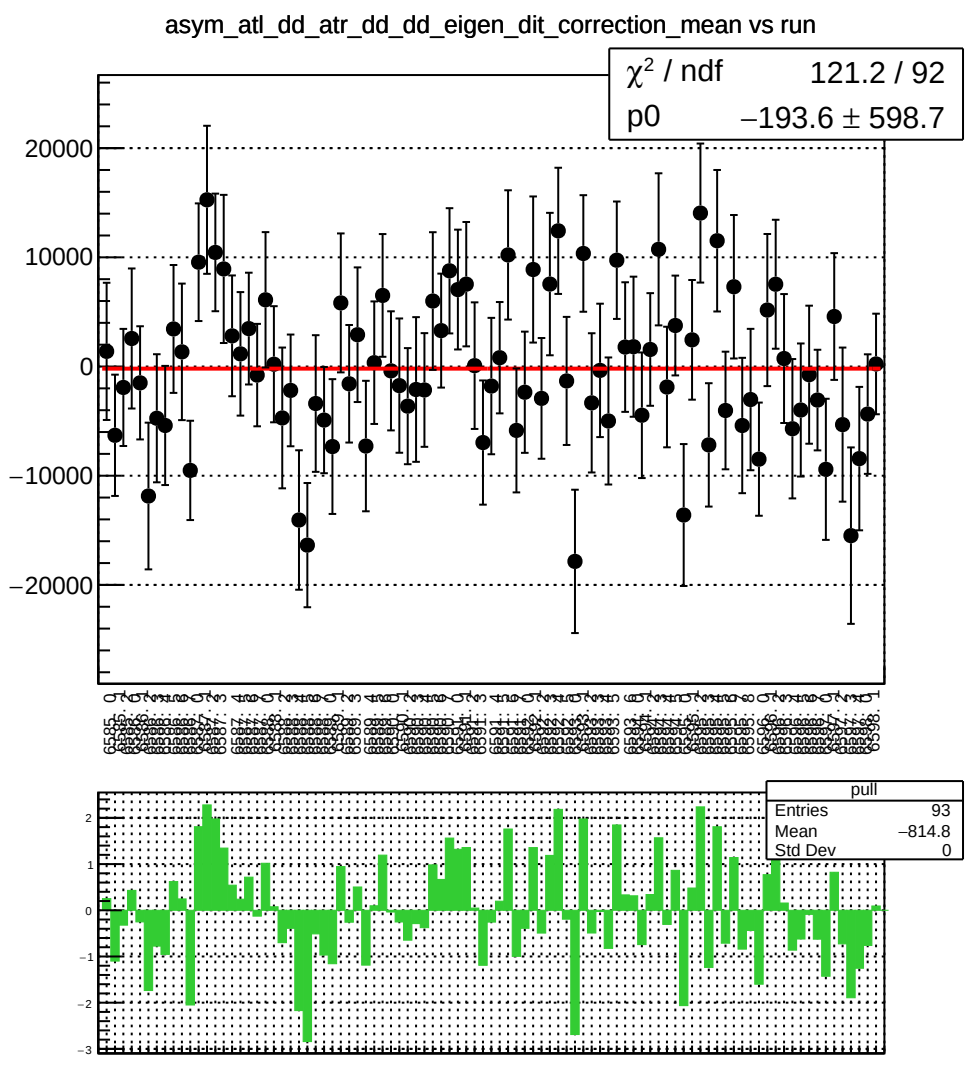

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 121.2 / 92
p0 −193.6 ± 598.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −814.8
Std Dev 0
2
1
0
−1
−2
−3

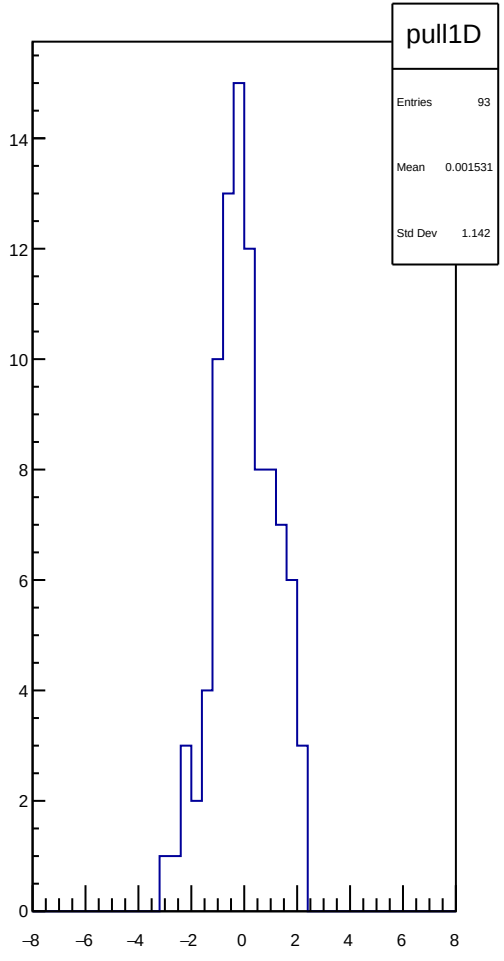

pull1D
Entries 93
Mean 0.001531
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

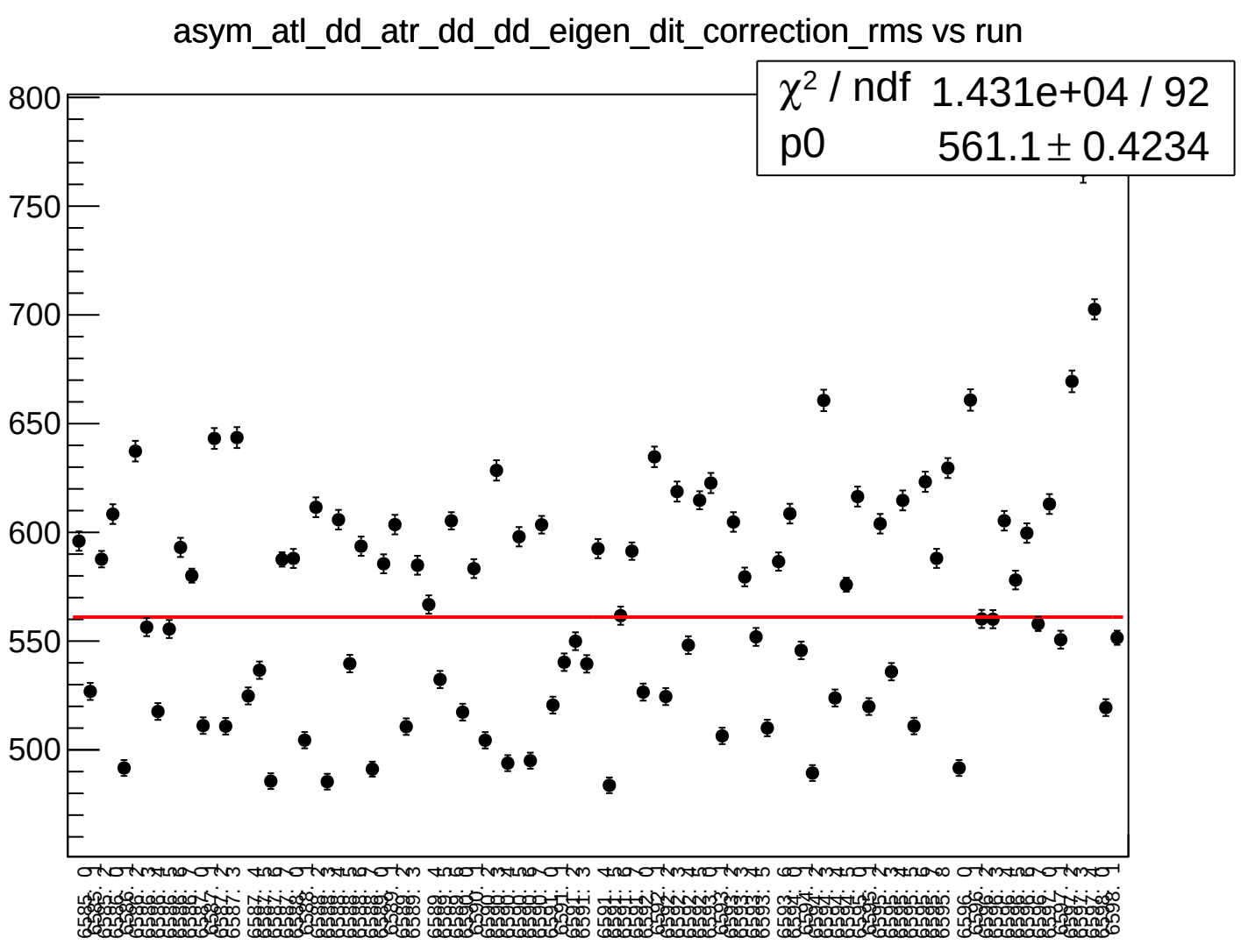

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.431e+04 / 92
p0 561.1 ± 0.4234
800
750
700
650
600
550
500

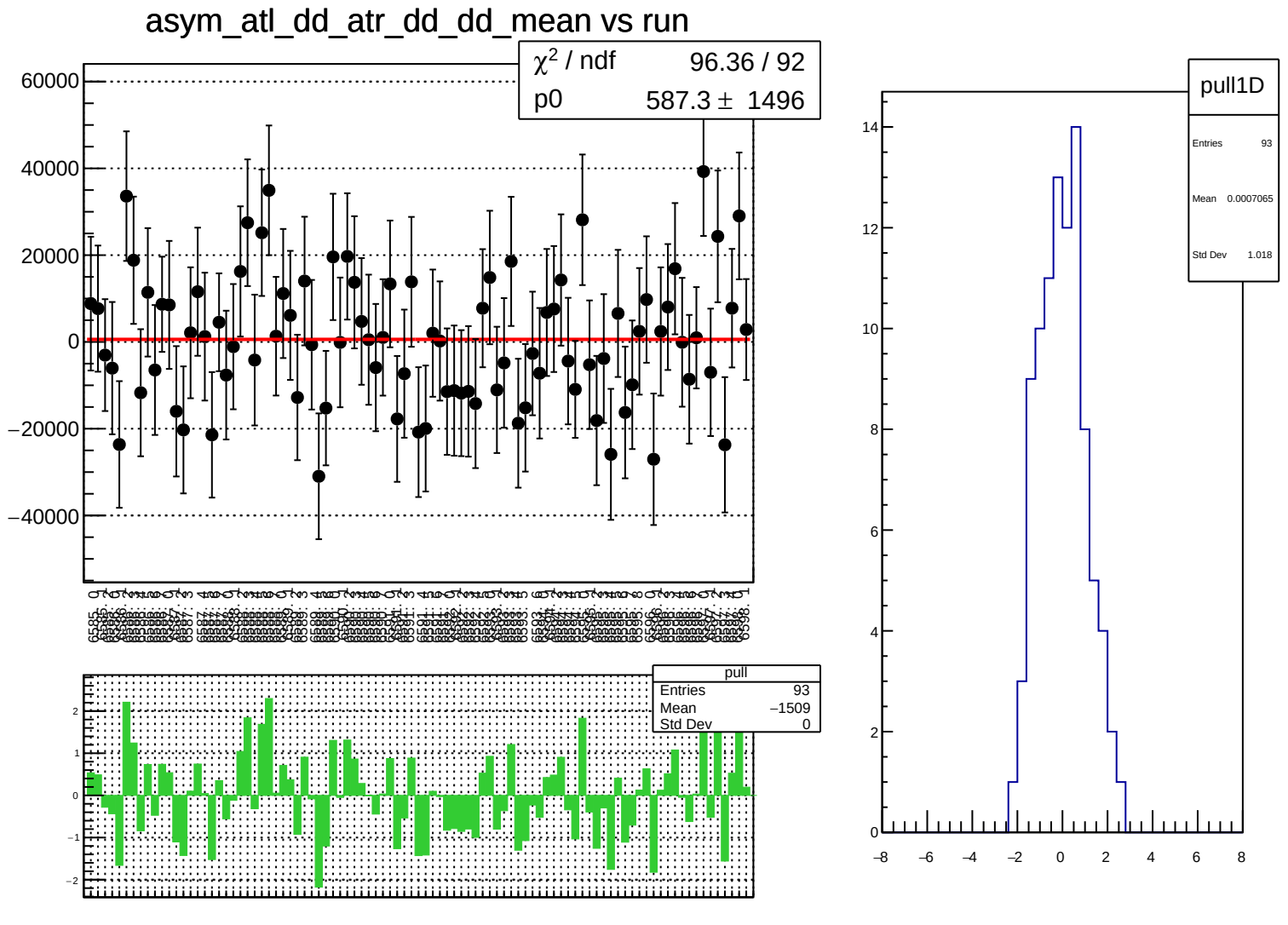

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ^2 / ndf 91.29 / 92
p0 348.4 ± 1386
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −674.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002803
Std Dev 0.9908
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

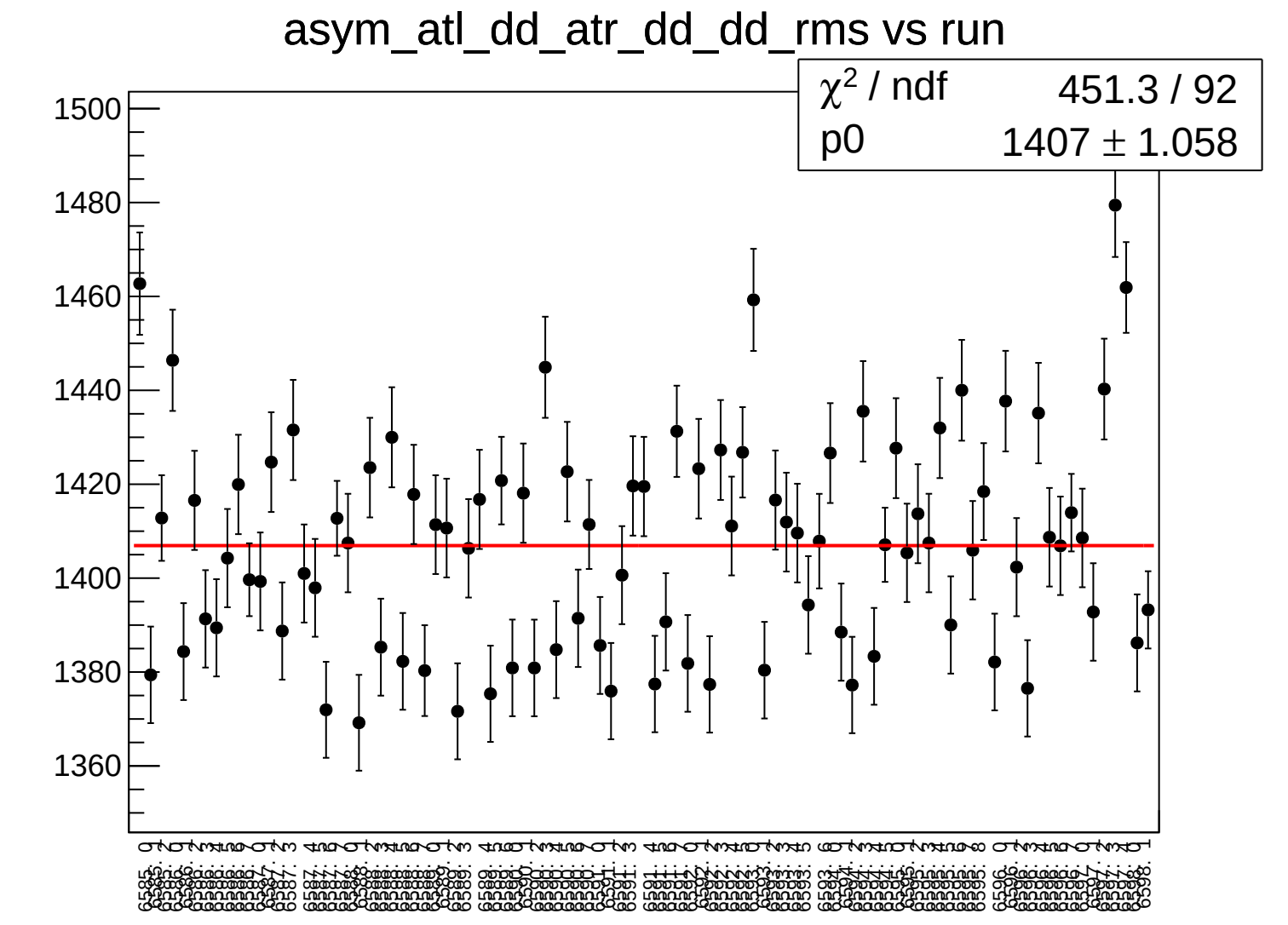

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 97.13 / 92
p0 1304 ± 0.9804
1350
1340
1330
1320
1310
1300
1290
1280
1270

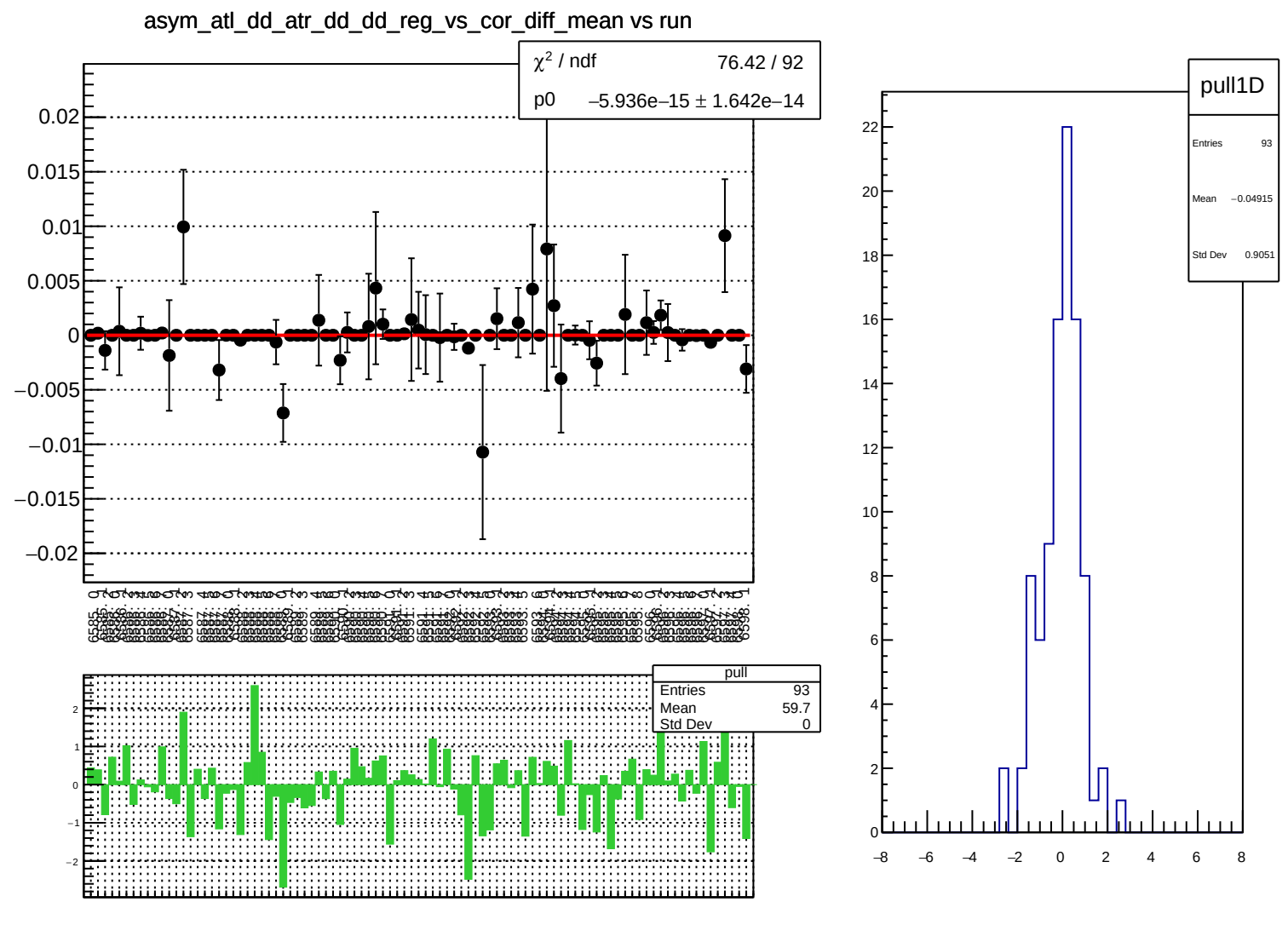

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 121.2 / 92
p0 −193.6 ± 598.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −814.8
Std Dev 0
2
1
0
−1
−2
−3

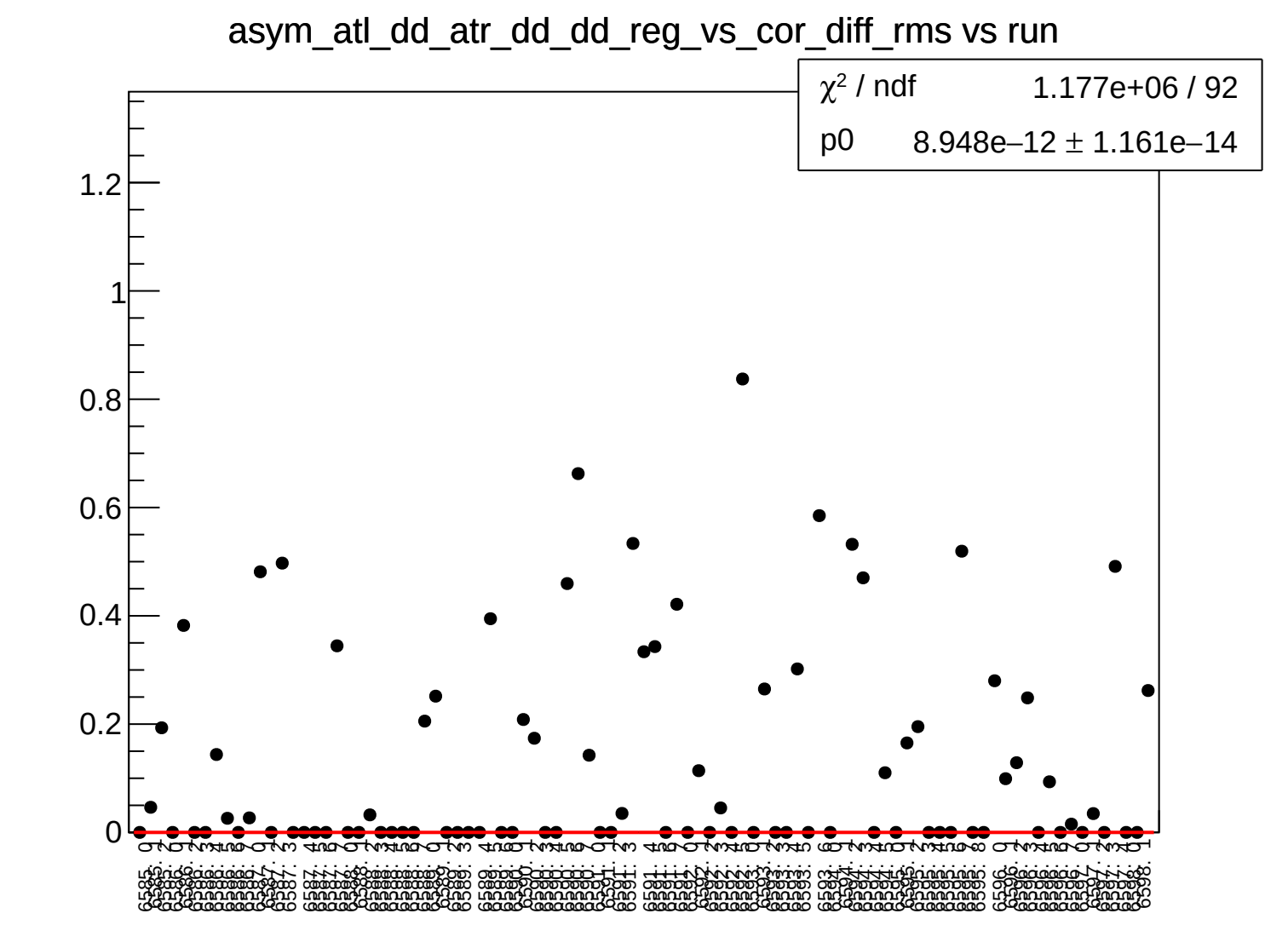

pull1D
Entries 93
Mean 0.001531
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

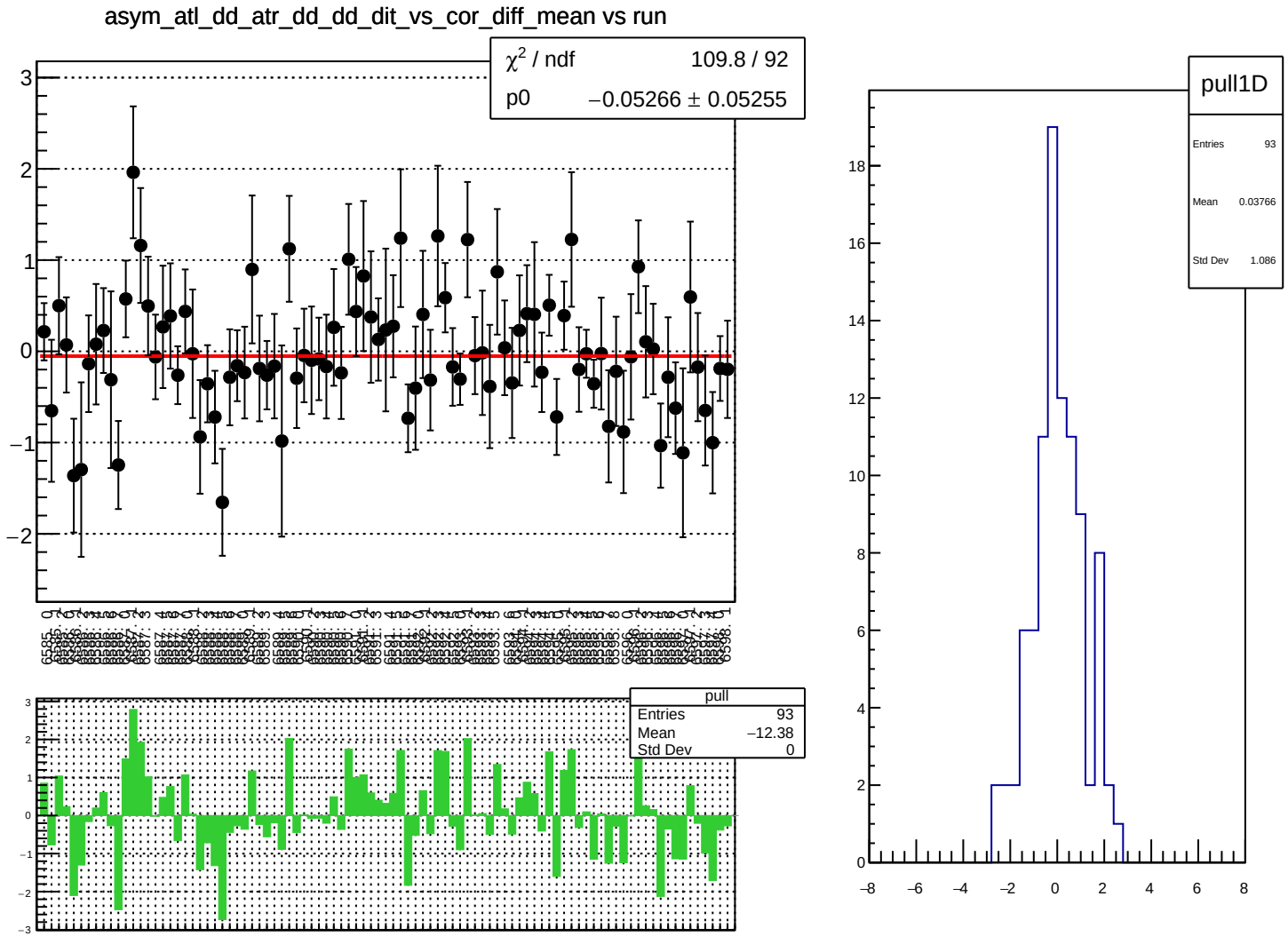

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.431e+04 / 92
p0 561.1 ± 0.4234
800
750
700
650
600
550
500

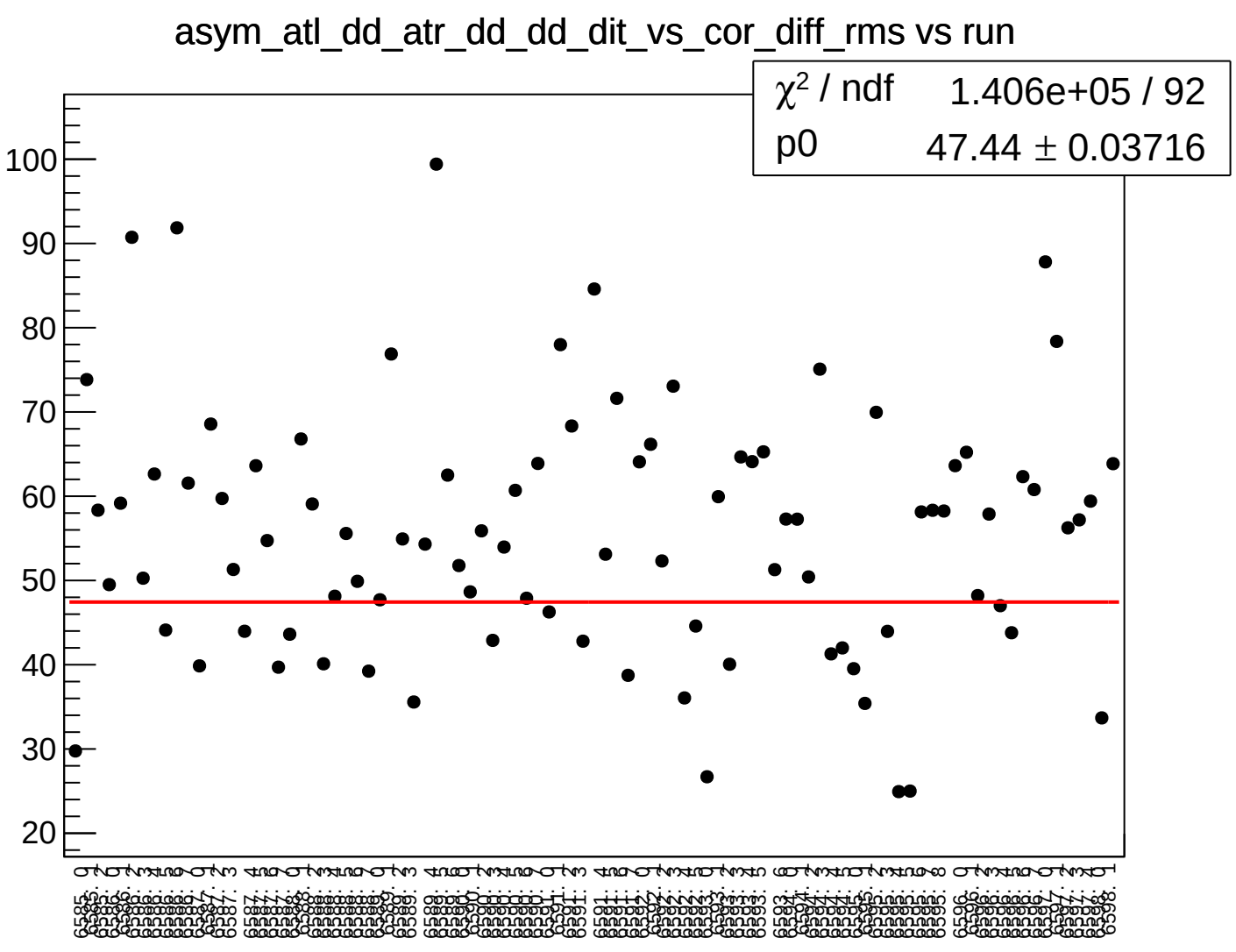

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 96.36 / 92
p0 587.3 ± 1496
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −1509
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0007065
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

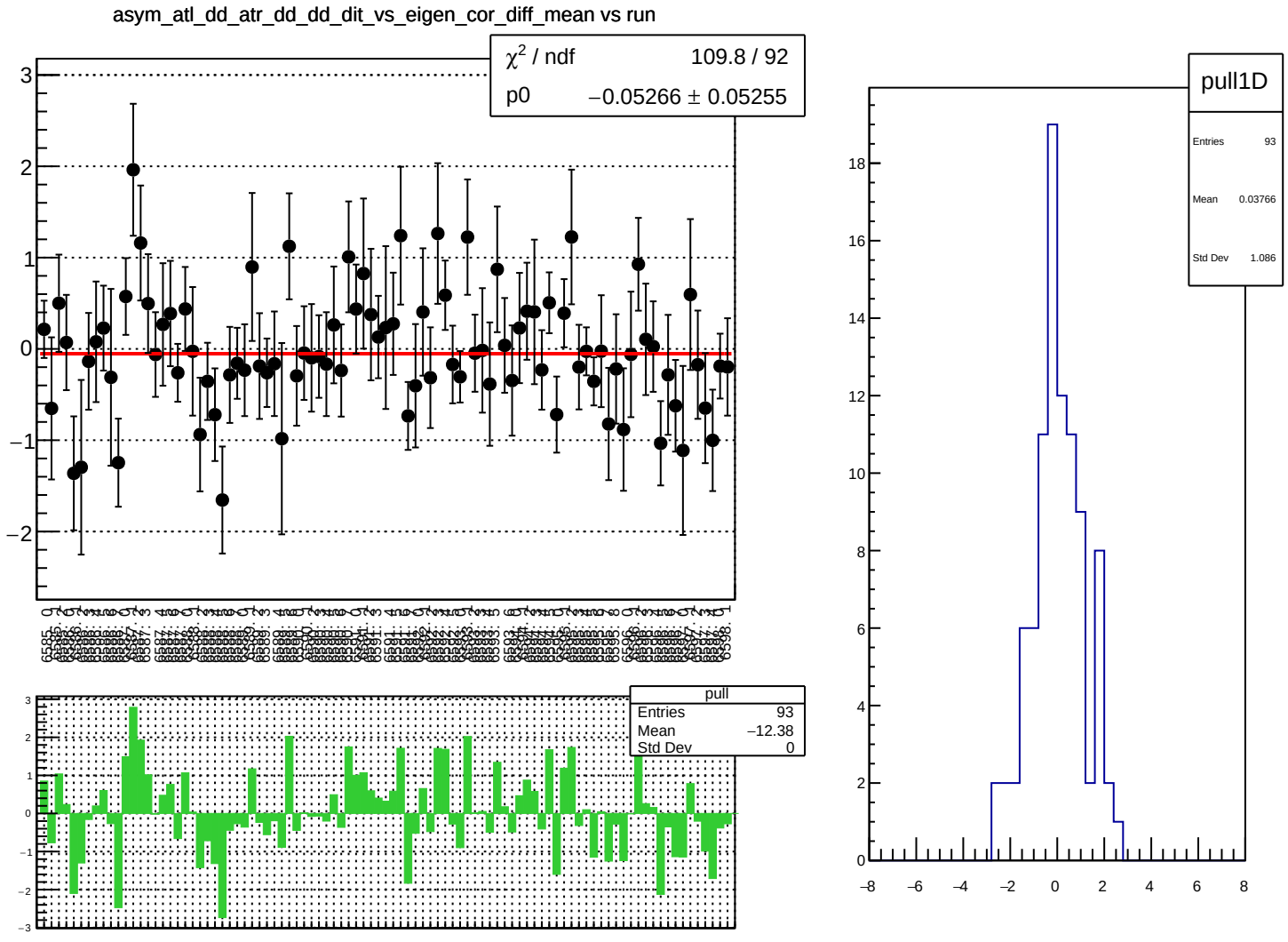

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 451.3 / 92
p0 1407 ± 1.058
1500
1480
1460
1440
1420
1400
1380
1360

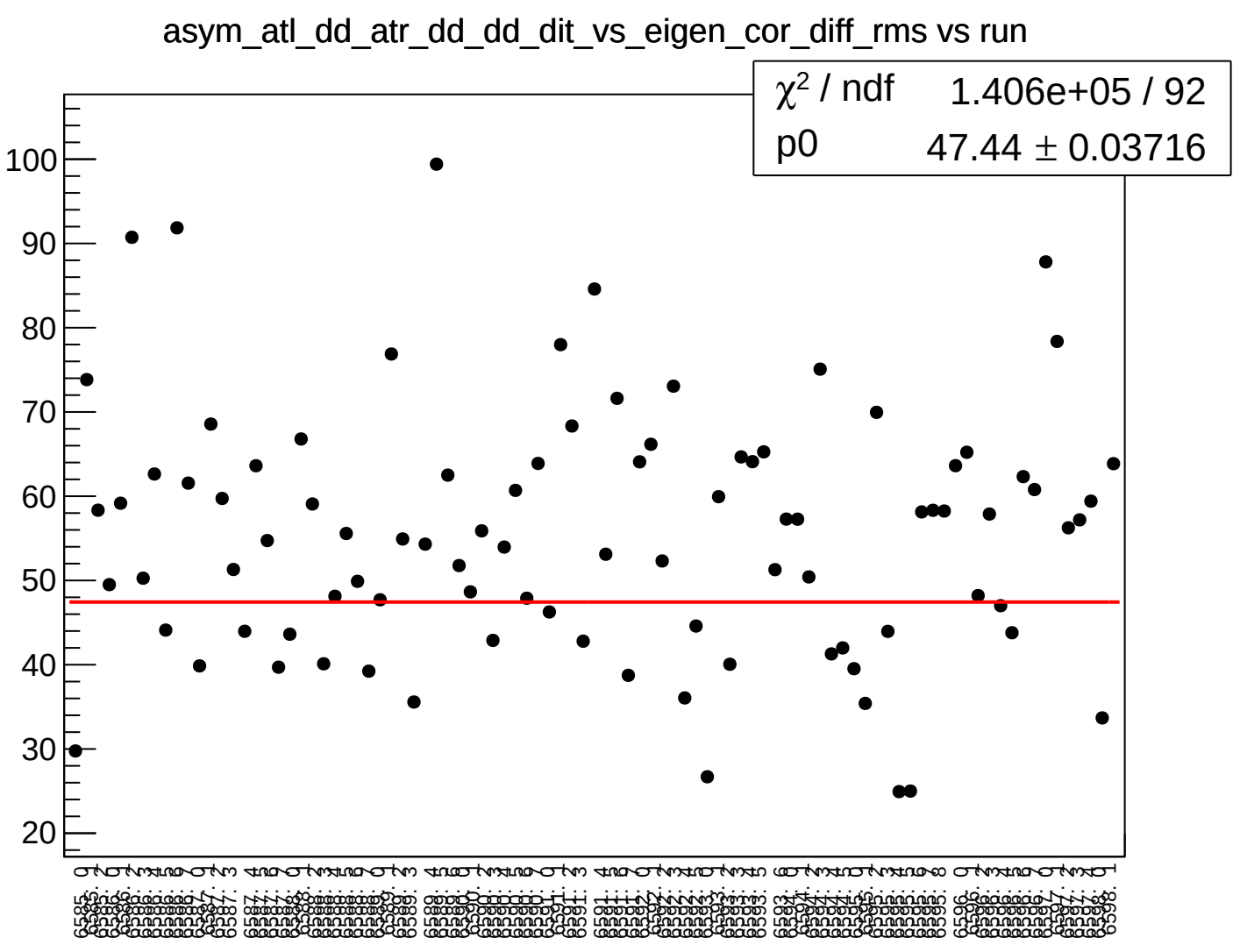

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.42 / 92
p0 −5.936e−15 ± 1.642e−14
pull
Entries 93
Mean 59.7
Std Dev 0
pull1D
Entries 93
Mean −0.04915
Std Dev 0.9051

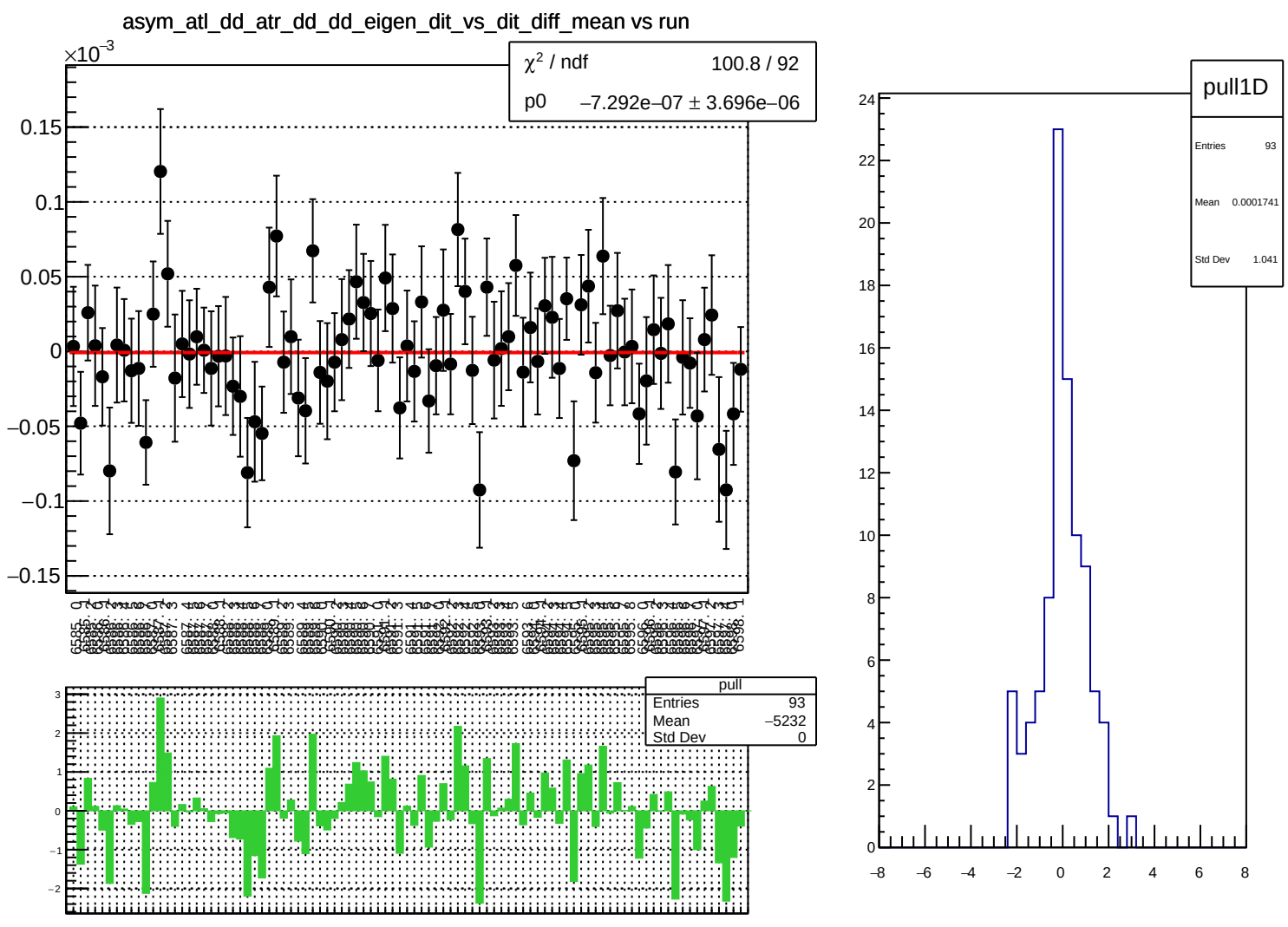

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.177e+06 / 92
p0 8.948e−12 ± 1.161e−14
1.2
1
0.8
0.6
0.4
0.2
0

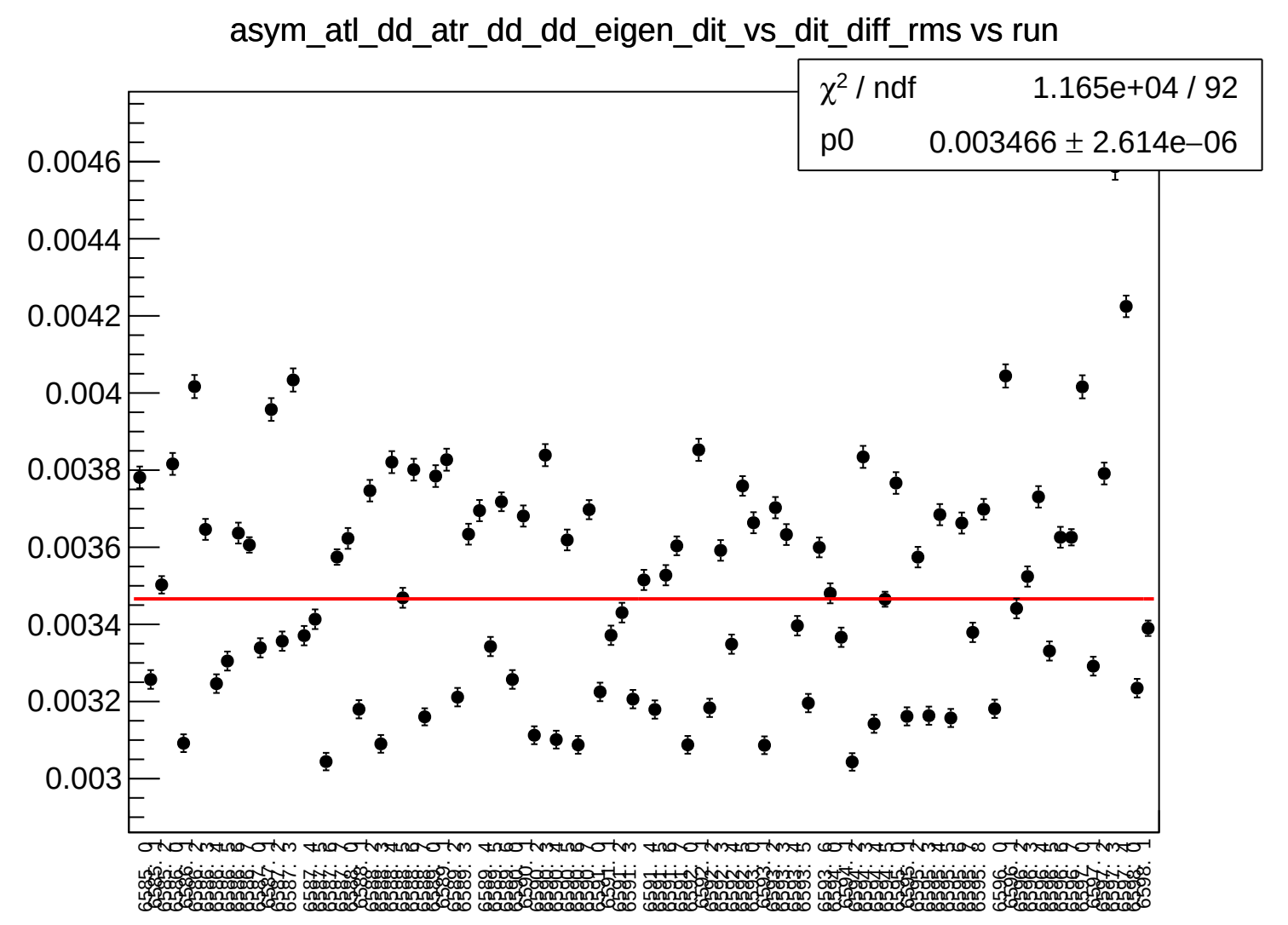

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 92
p0 −0.05266 ± 0.05255
pull
Entries 93
Mean −12.38
Std Dev 0
pull1D
Entries 93
Mean 0.03766
Std Dev 1.086

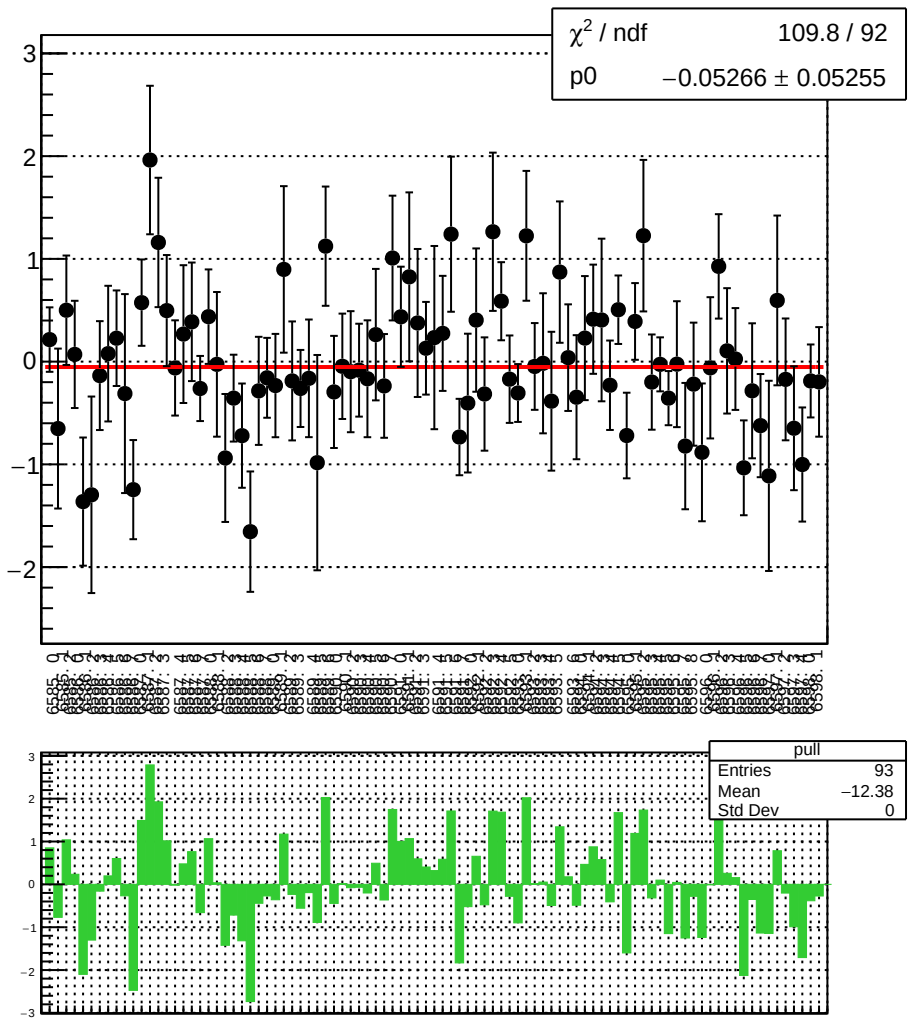

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 92
p0 47.44 ± 0.03716
100
90
80
70
60
50
40
30
20

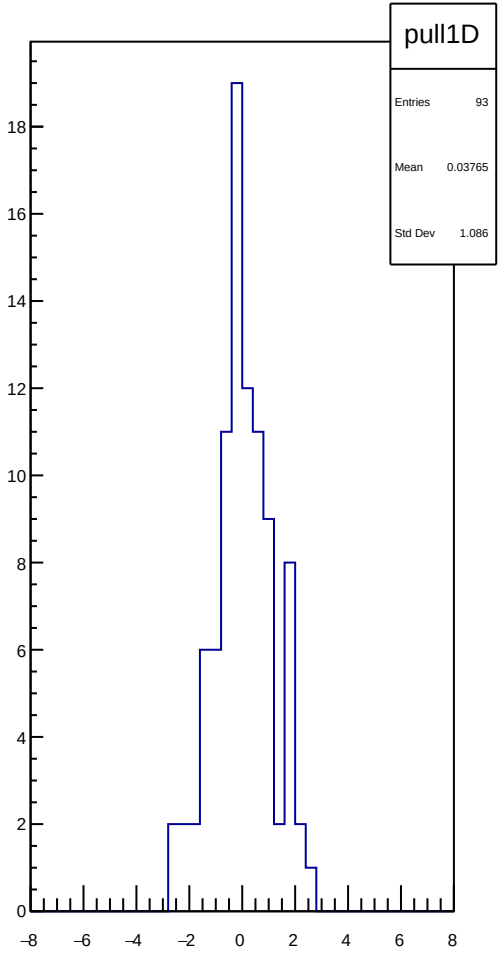

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 92
p0 −0.05266 ± 0.05255
pull
Entries 93
Mean −12.38
Std Dev 0
pull1D
Entries 93
Mean 0.03766
Std Dev 1.086

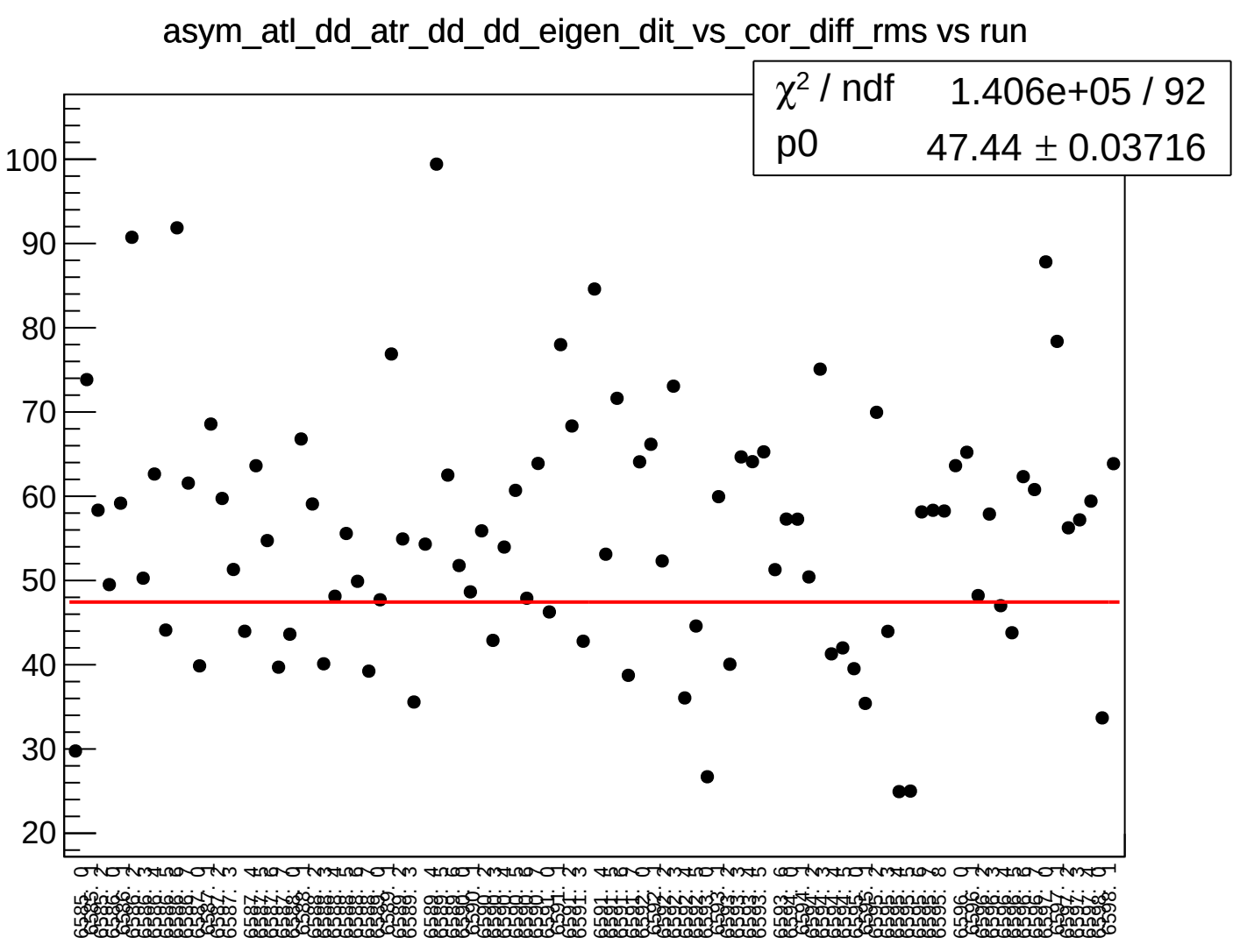

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 92
p0 47.44 ± 0.03716
100
90
80
70
60
50
40
30
20

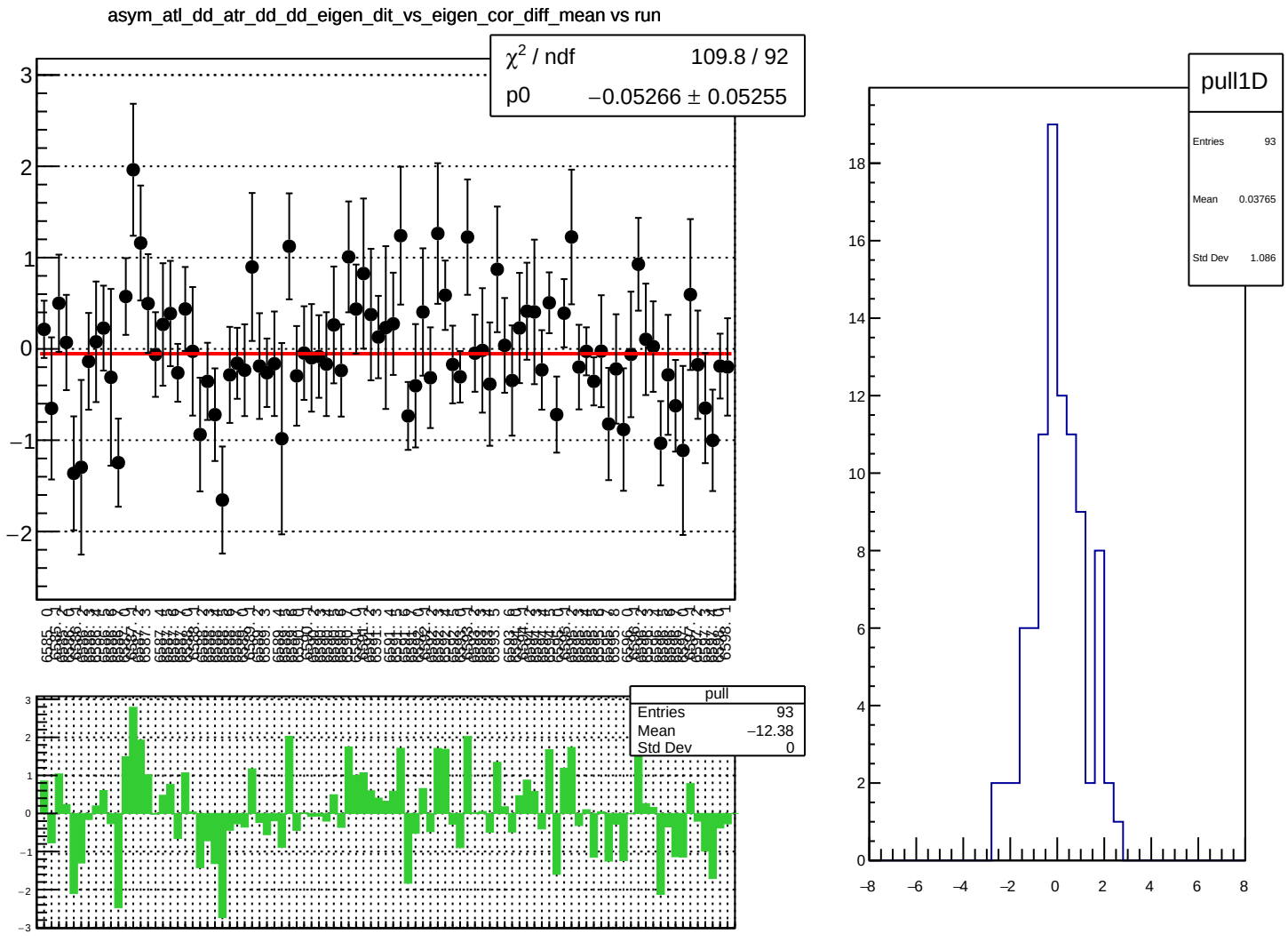

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.8 / 92
p0 −7.292e−07 ± 3.696e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean −5232
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0001741
Std Dev 1.041
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

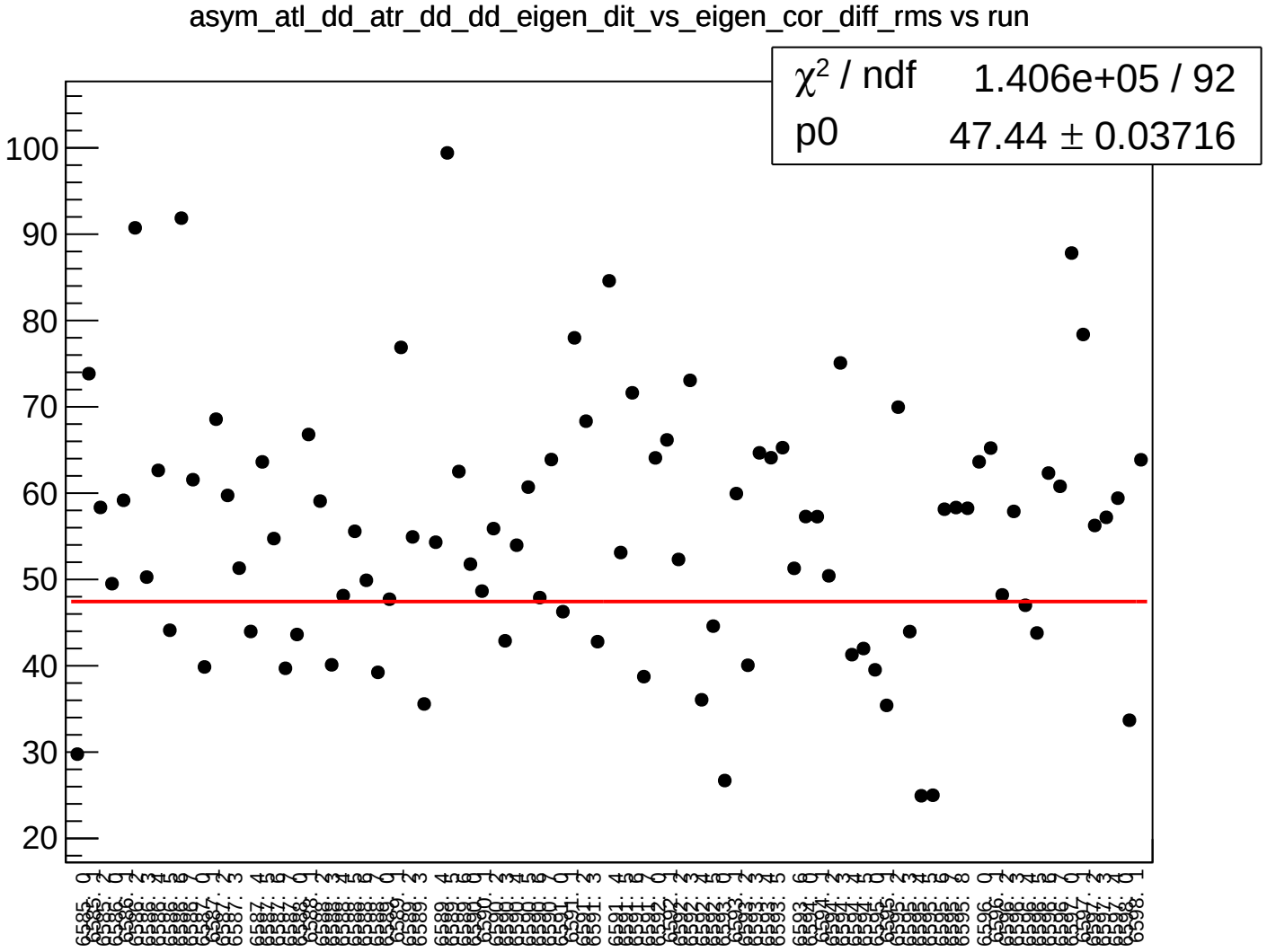

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.165e+04 / 92
p0 0.003466 ± 2.614e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

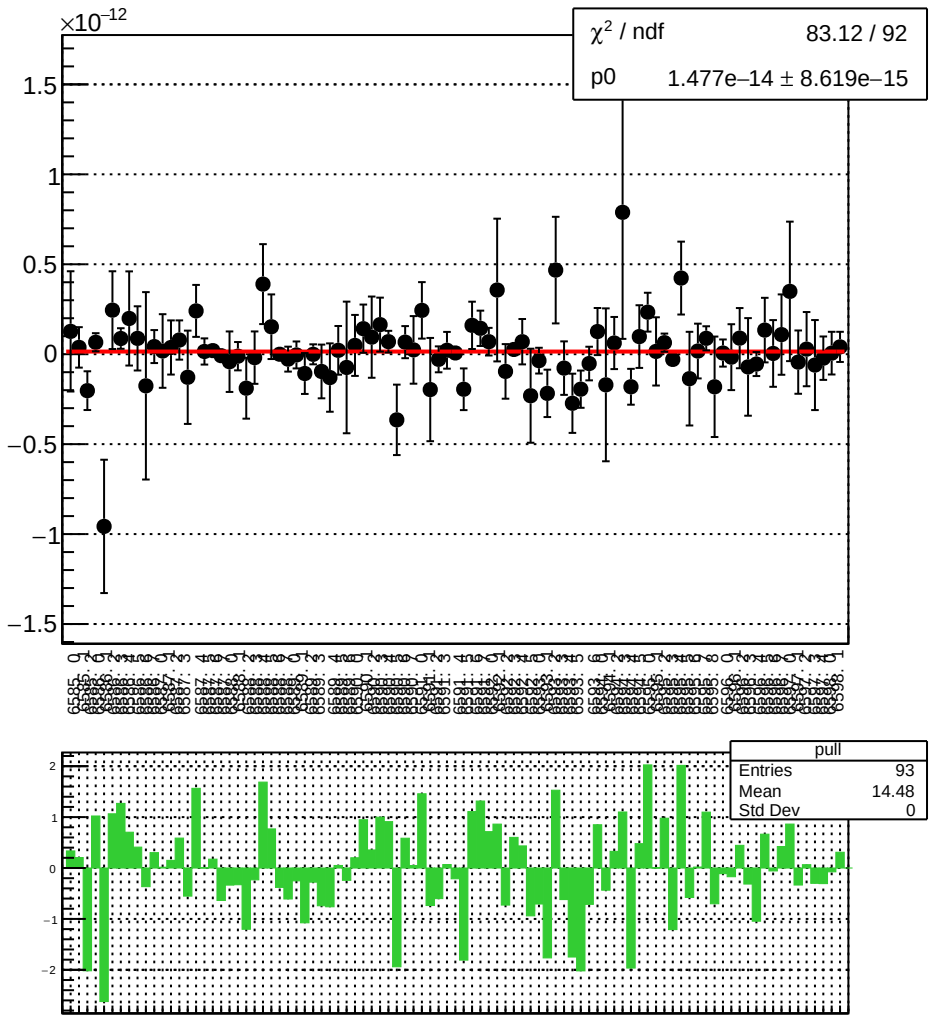

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 92
p0 −0.05266 ± 0.05255
pull
Entries 93
Mean −12.38
Std Dev 0

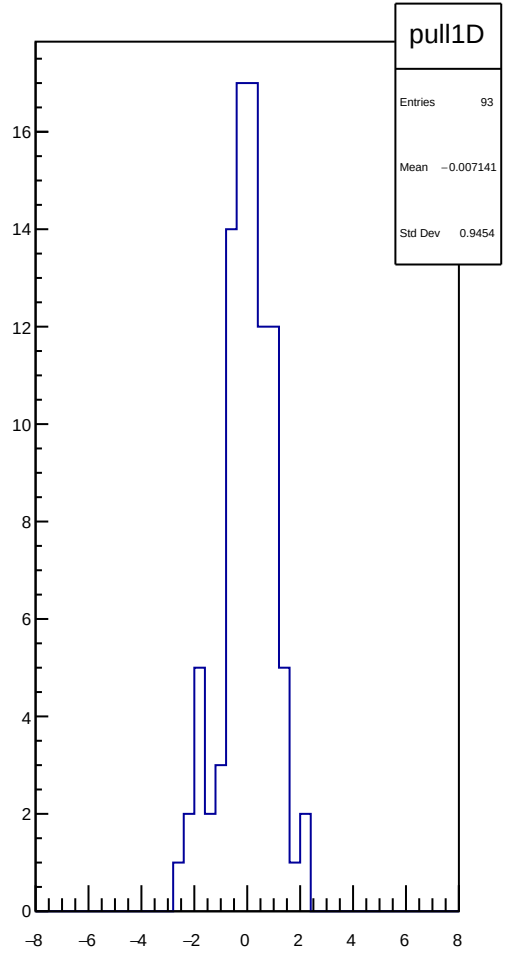

pull1D
Entries 93
Mean 0.03765
Std Dev 1.086

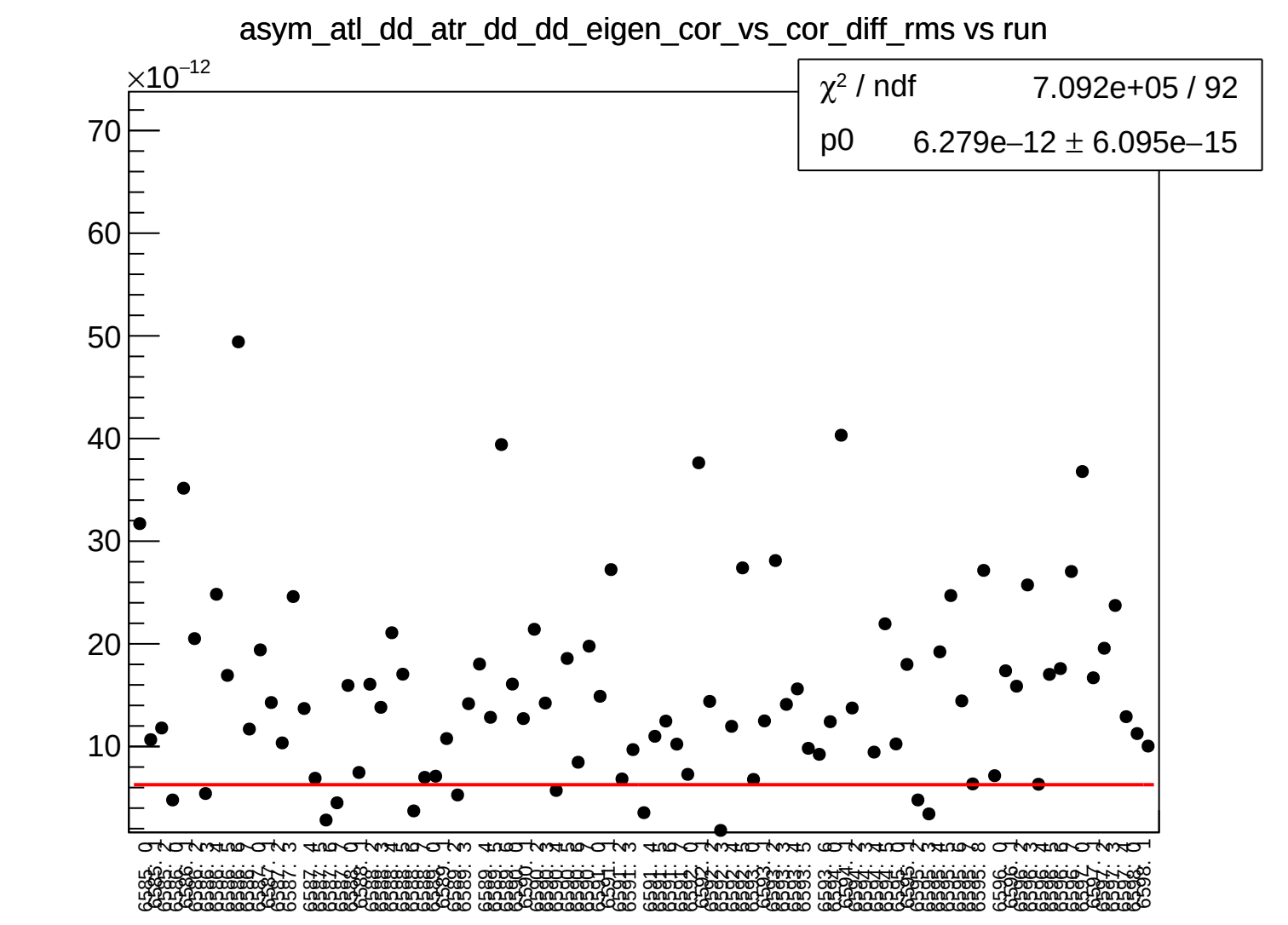

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 92
p0 47.44 ± 0.03716
100
90
80
70
60
50
40
30
20

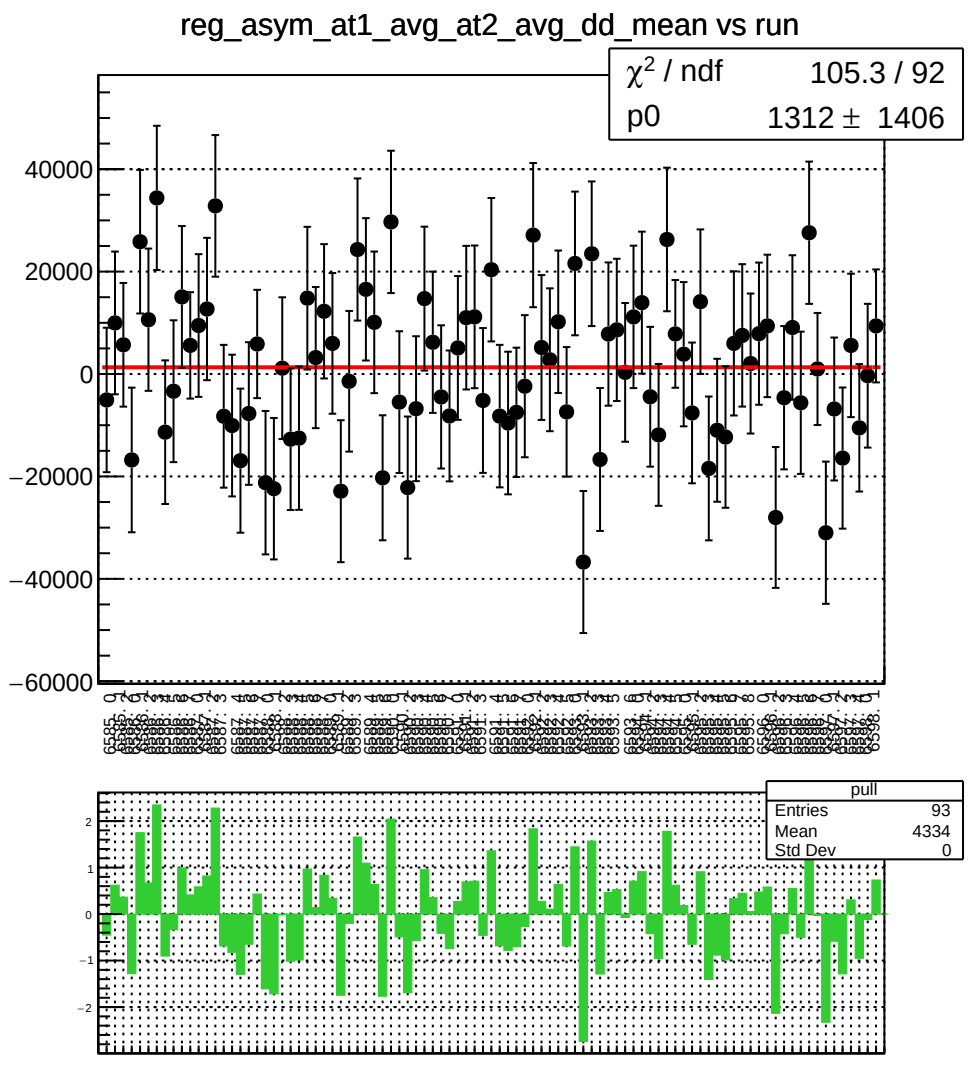

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 92
p0 −0.05266 ± 0.05255
pull
Entries 93
Mean −12.38
Std Dev 0
pull1D
Entries 93
Mean 0.03765
Std Dev 1.086

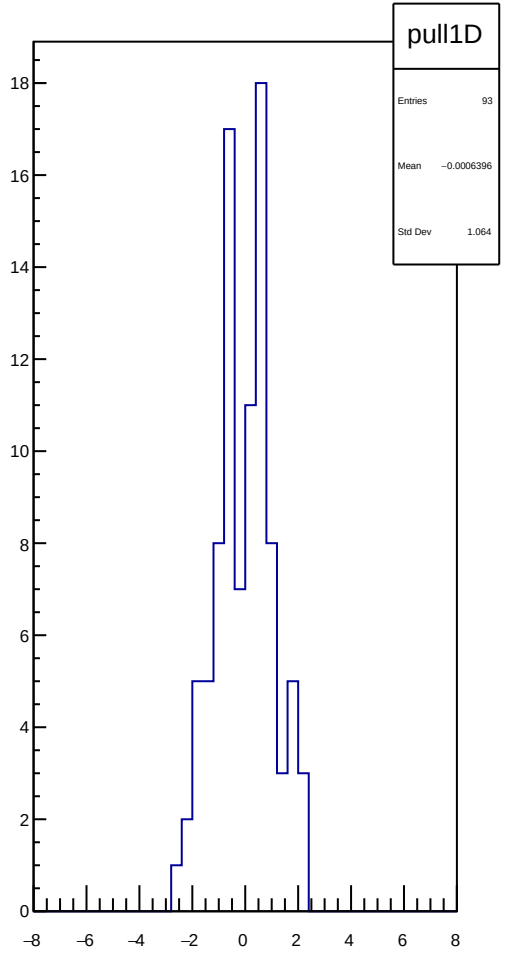

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 92
p0 47.44 ± 0.03716
100
90
80
70
60
50
40
30
20

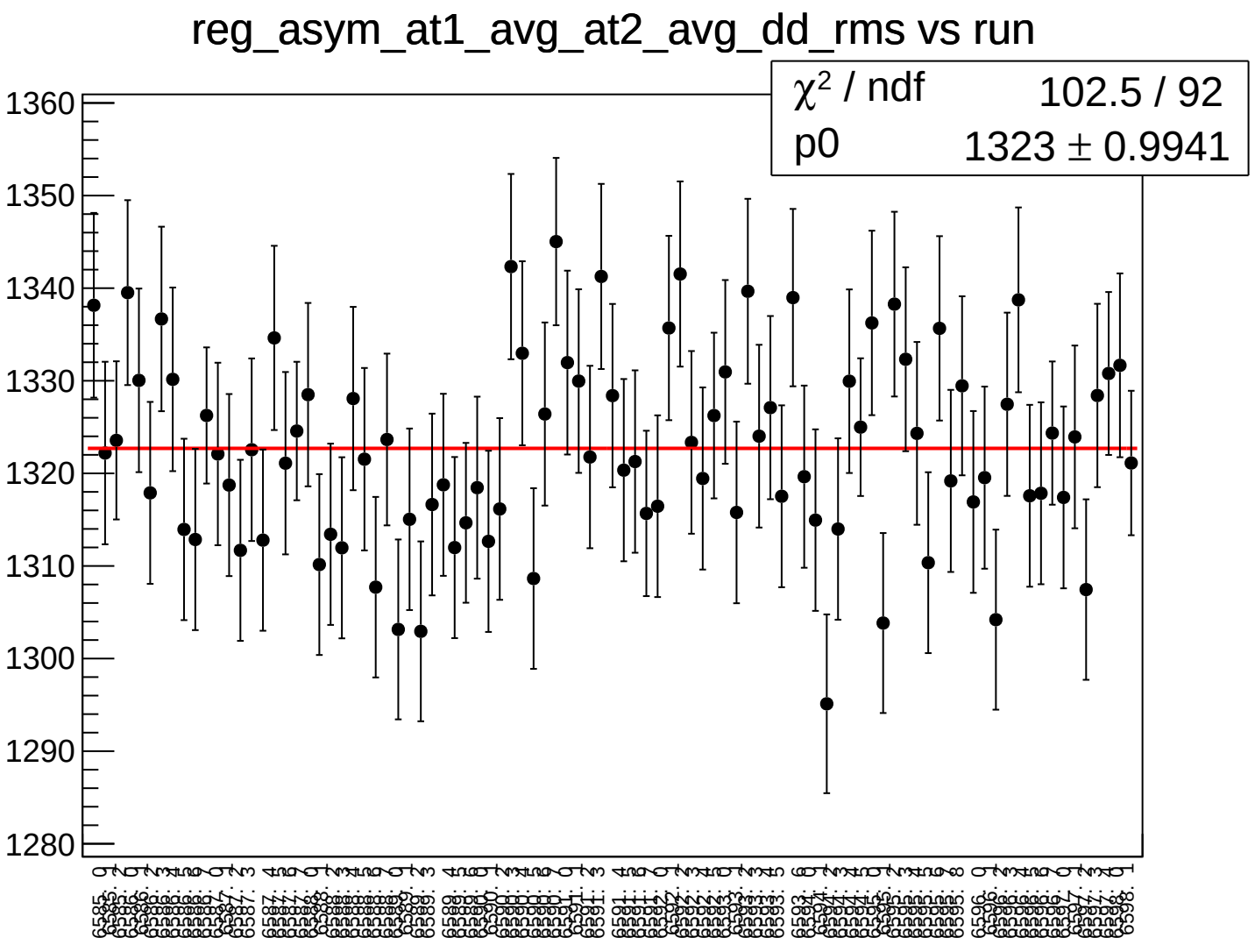

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.12 / 92
p0 1.477e−14 ± 8.619e−15
pull
Entries 93
Mean 14.48
Std Dev 0

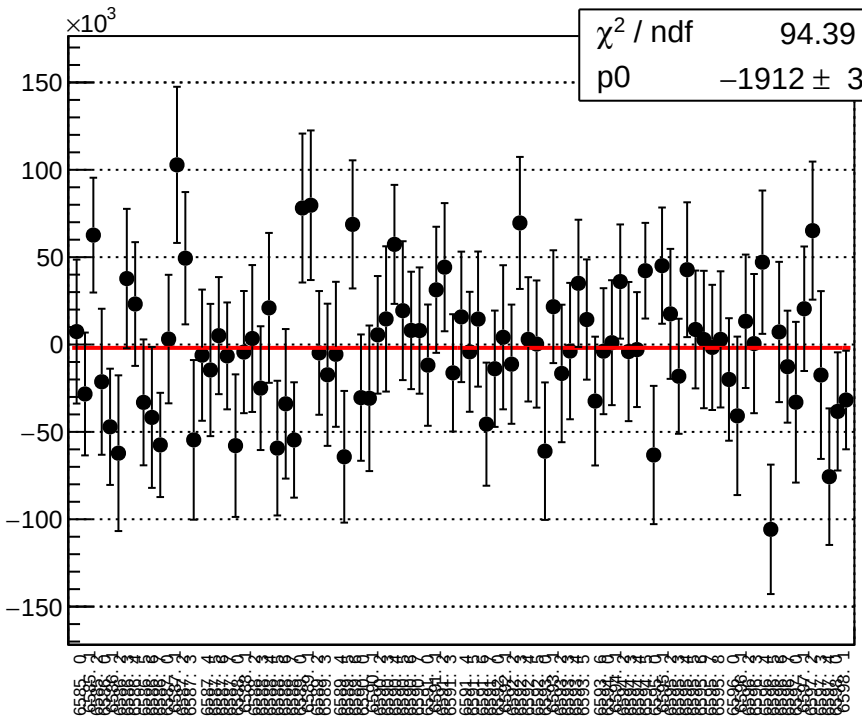

pull1D
Entries 93
Mean −0.007141
Std Dev 0.9454

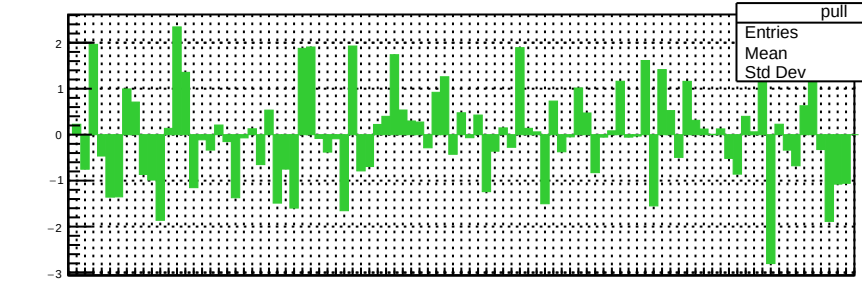

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.092e+05 / 92
p0 6.279e−12 ± 6.095e−15
70
60
50
40
30
20
10

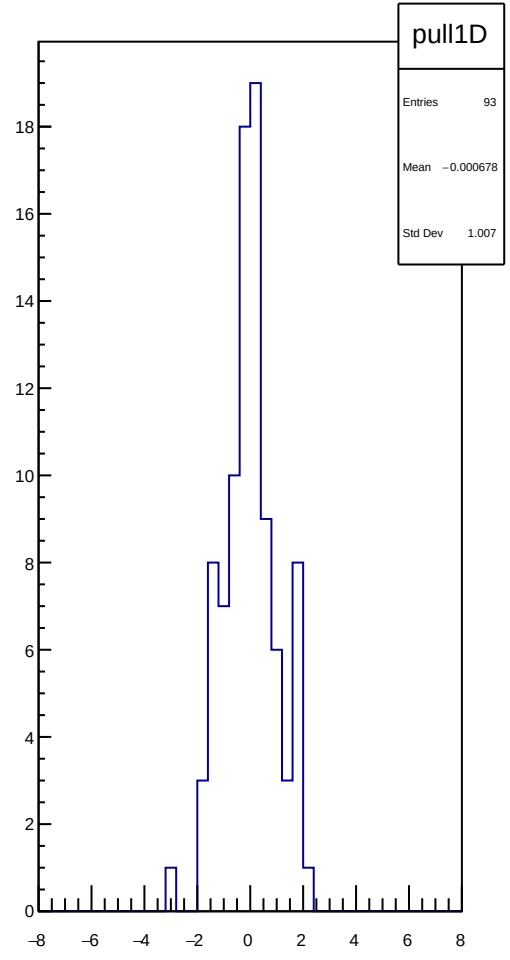

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 105.3 / 92
p0 1312 ± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 4334
Std Dev 0
2
1
0
−1
−2

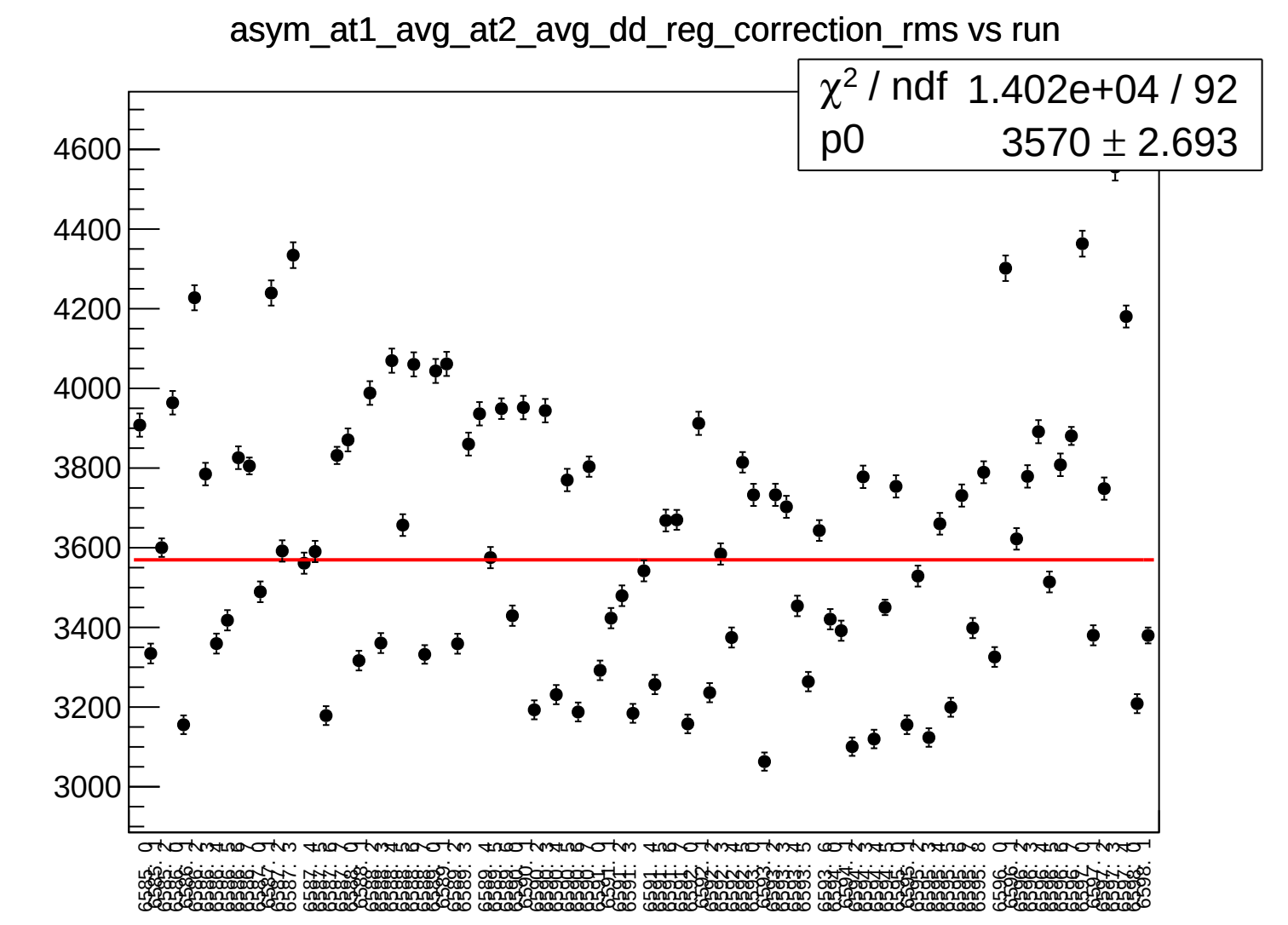

pull1D
Entries 93
Mean −0.0006396
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

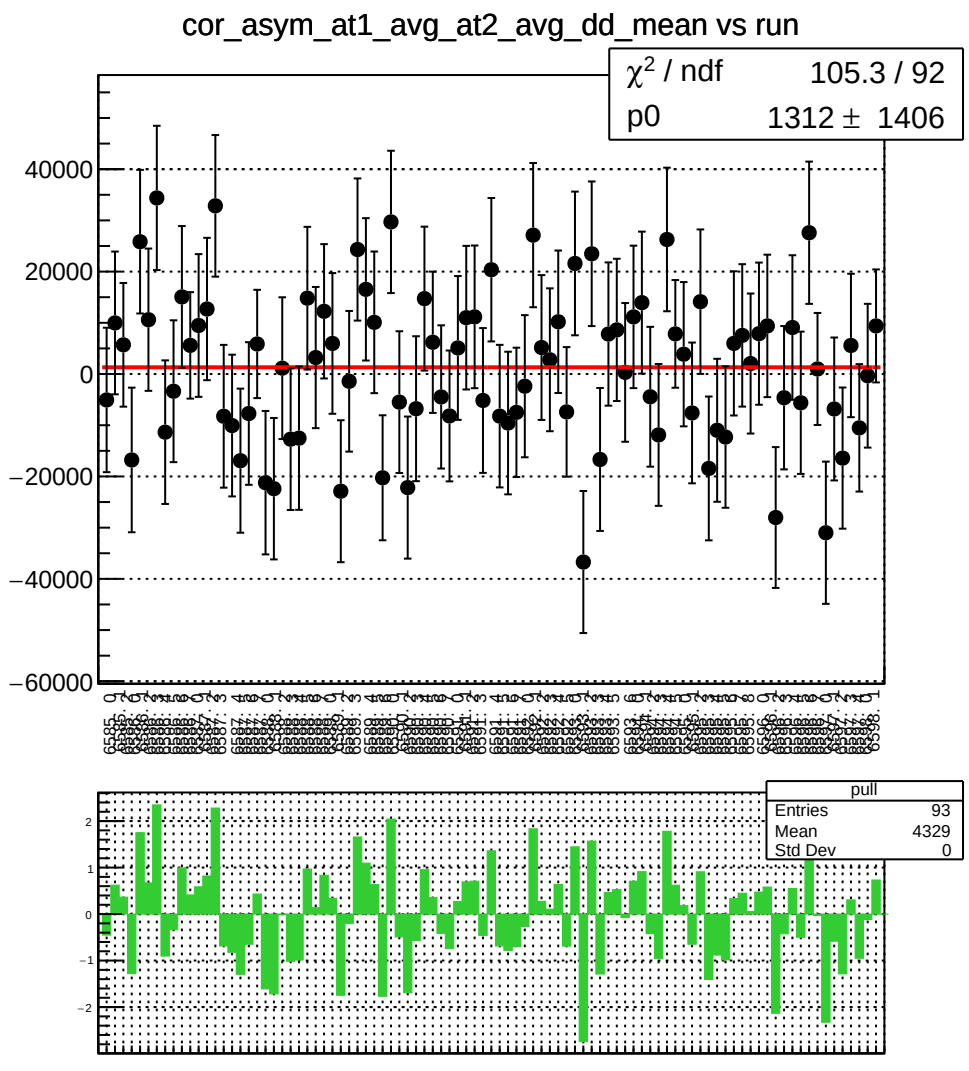

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 102.5 / 92
p0 1323 ± 0.9941
1360
1350
1340
1330
1320
1310
1300
1290
1280

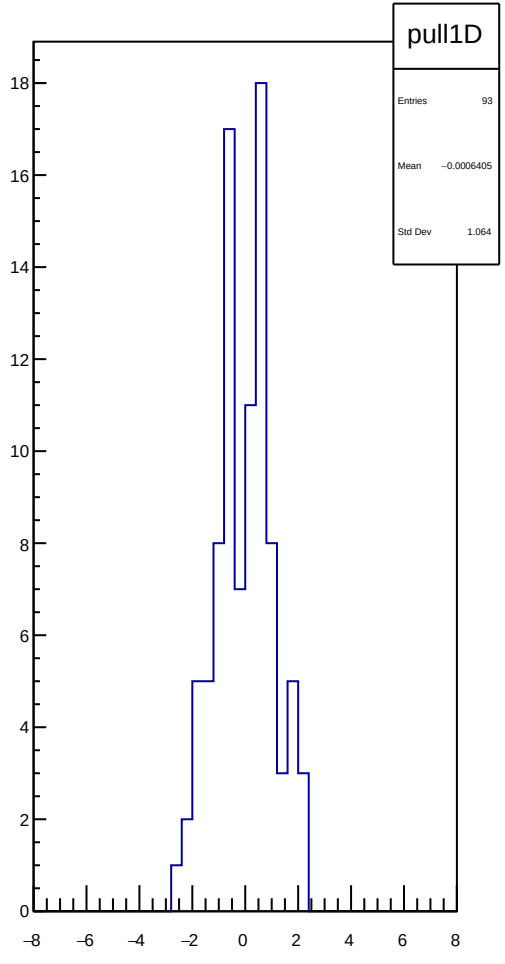

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.39 / 92
p0 −1912 ± 3809
150
100
50
0
−50
−100
−150

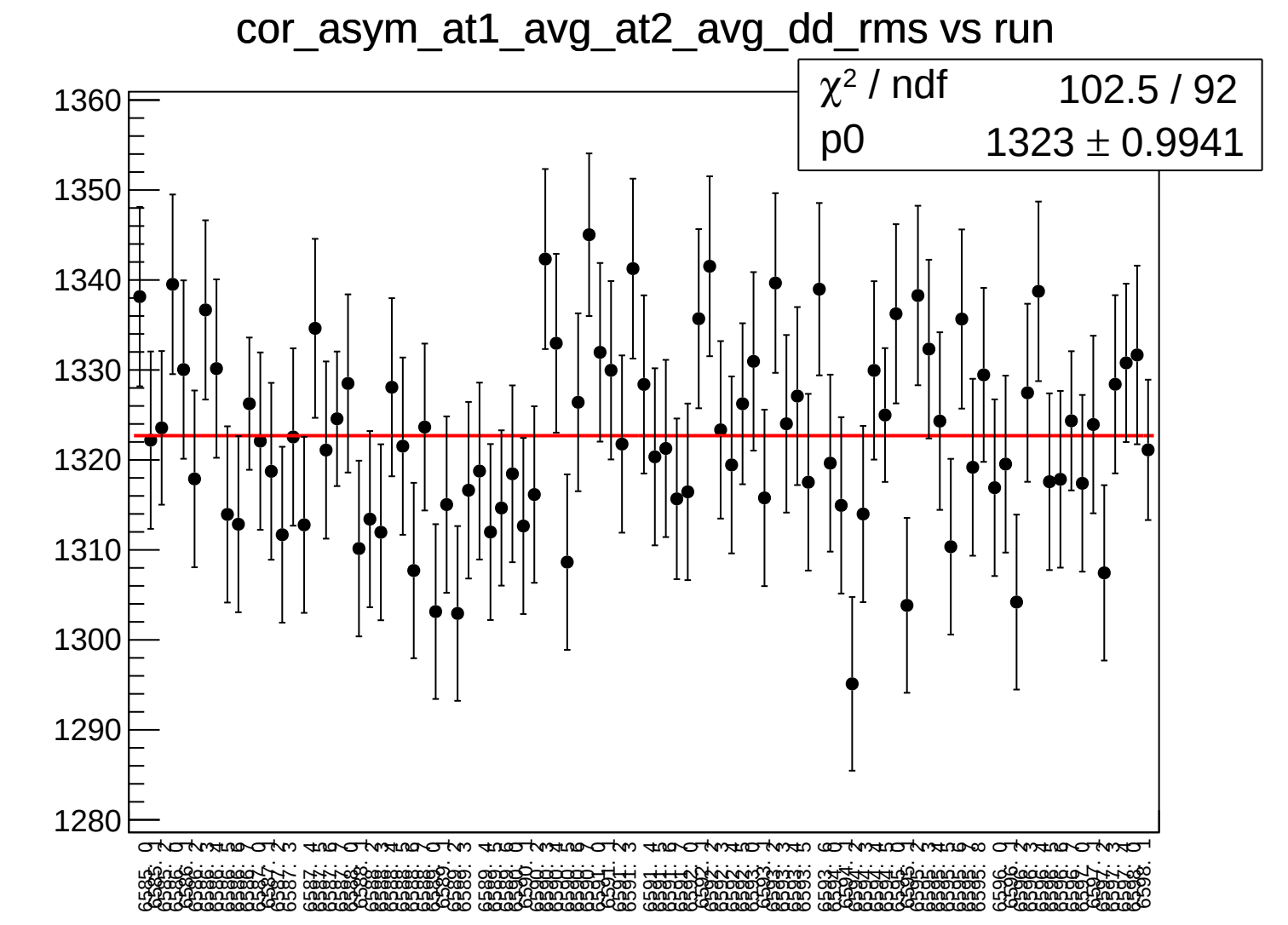

pull
Entries 93
Mean 192.5
Std Dev 379.3
2
1
0
−1
−2
−3

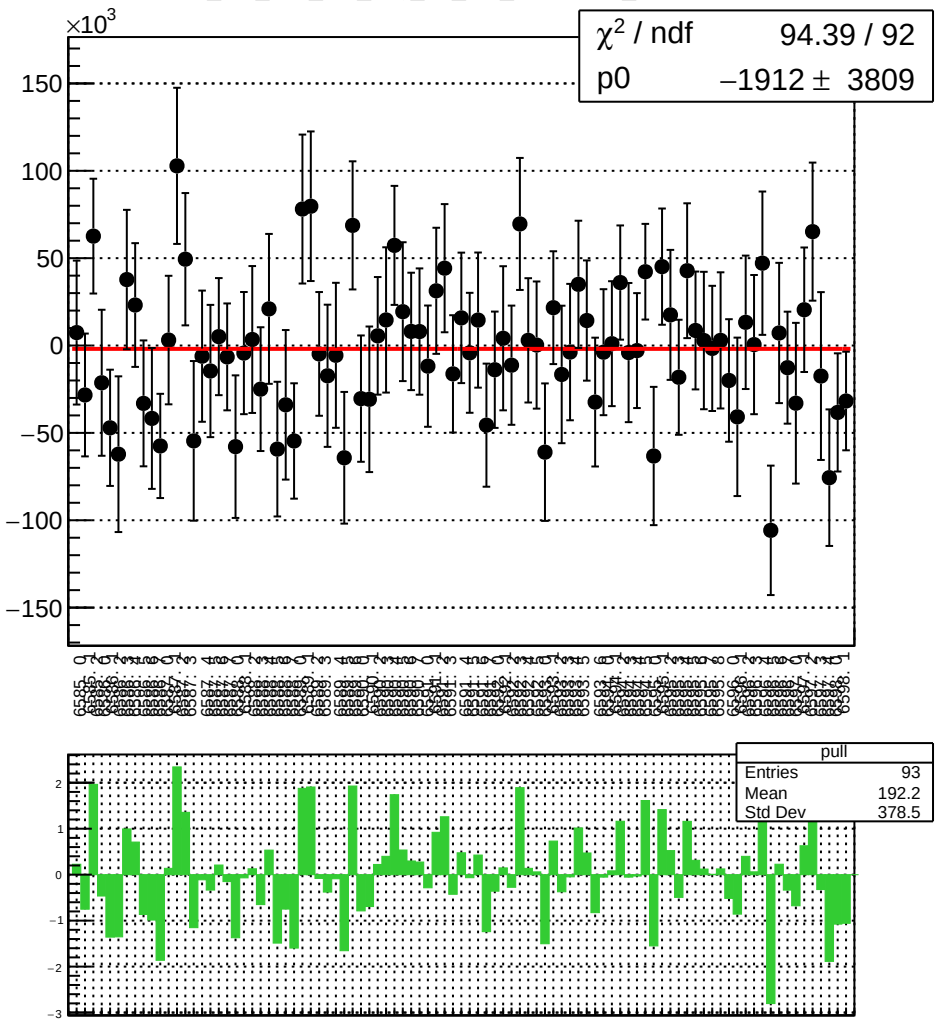

pull1D
Entries 93
Mean −0.000678
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

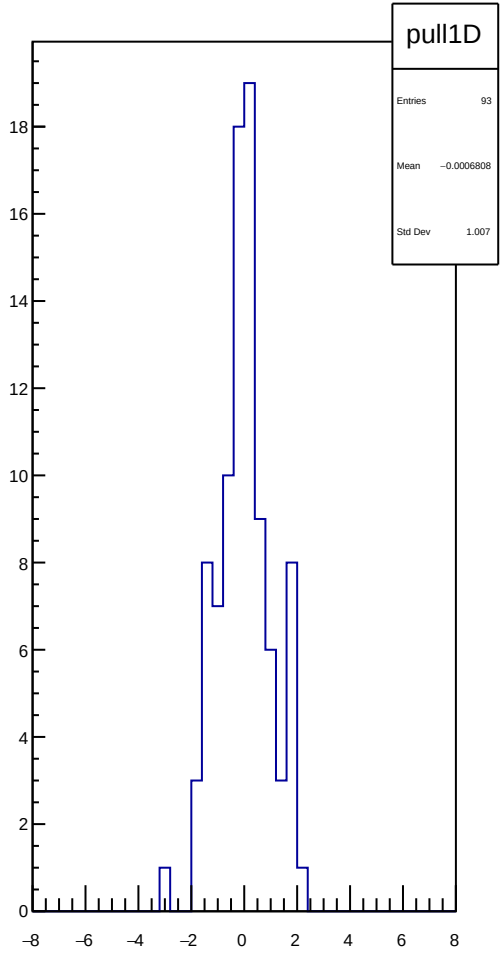

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.402e+04 / 92
p0 3570 ± 2.693
4600
4400
4200
4000
3800
3600
3400
3200
3000

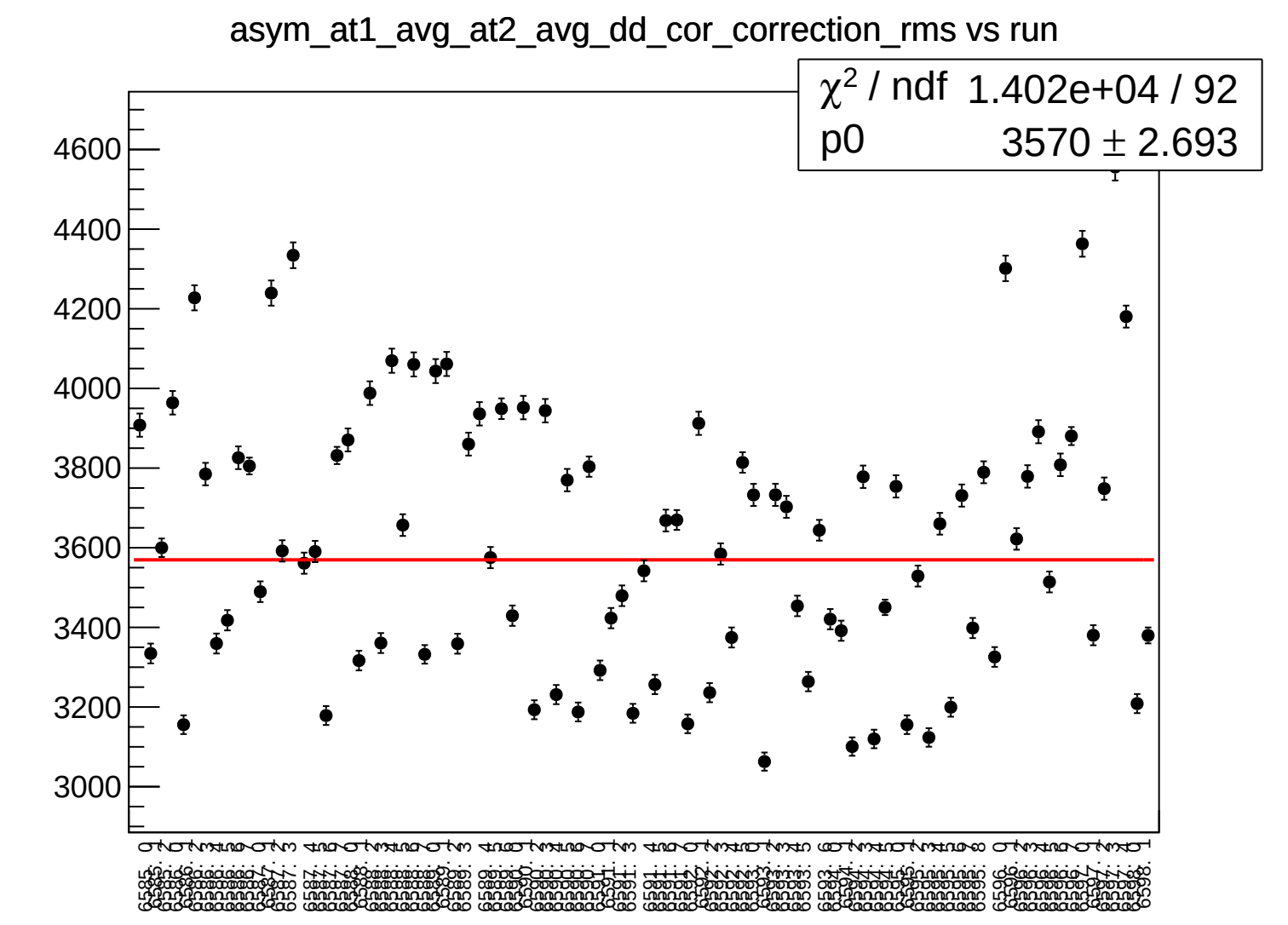

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 105.3 / 92
p0 1312 ± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 4329
Std Dev 0
2
1
0
−1
−2

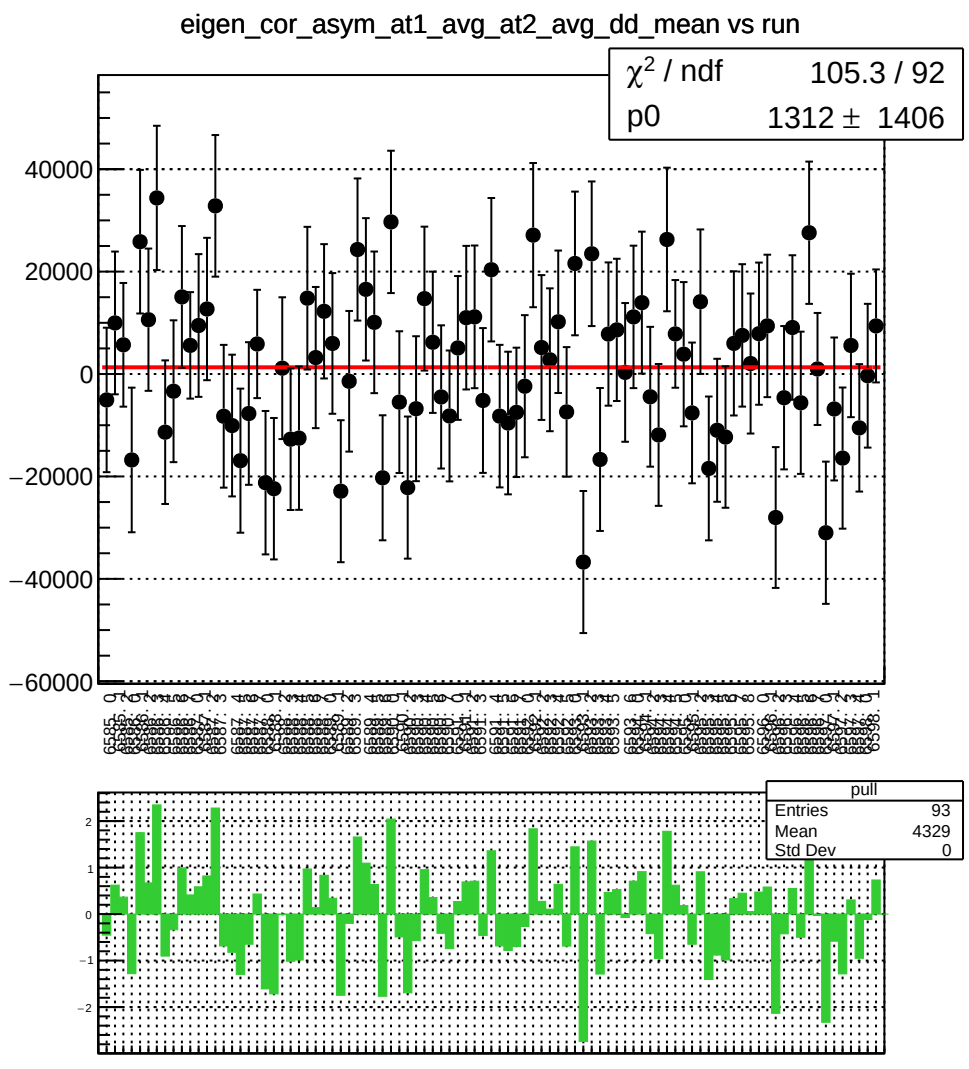

pull1D
Entries 93
Mean −0.0006405
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

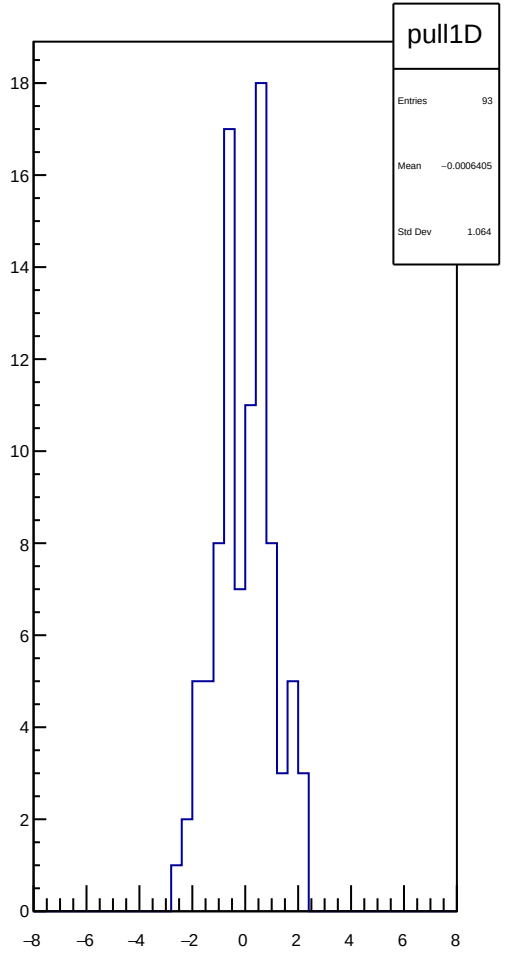

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 102.5 / 92
p0 1323 ± 0.9941
1360
1350
1340
1330
1320
1310
1300
1290
1280

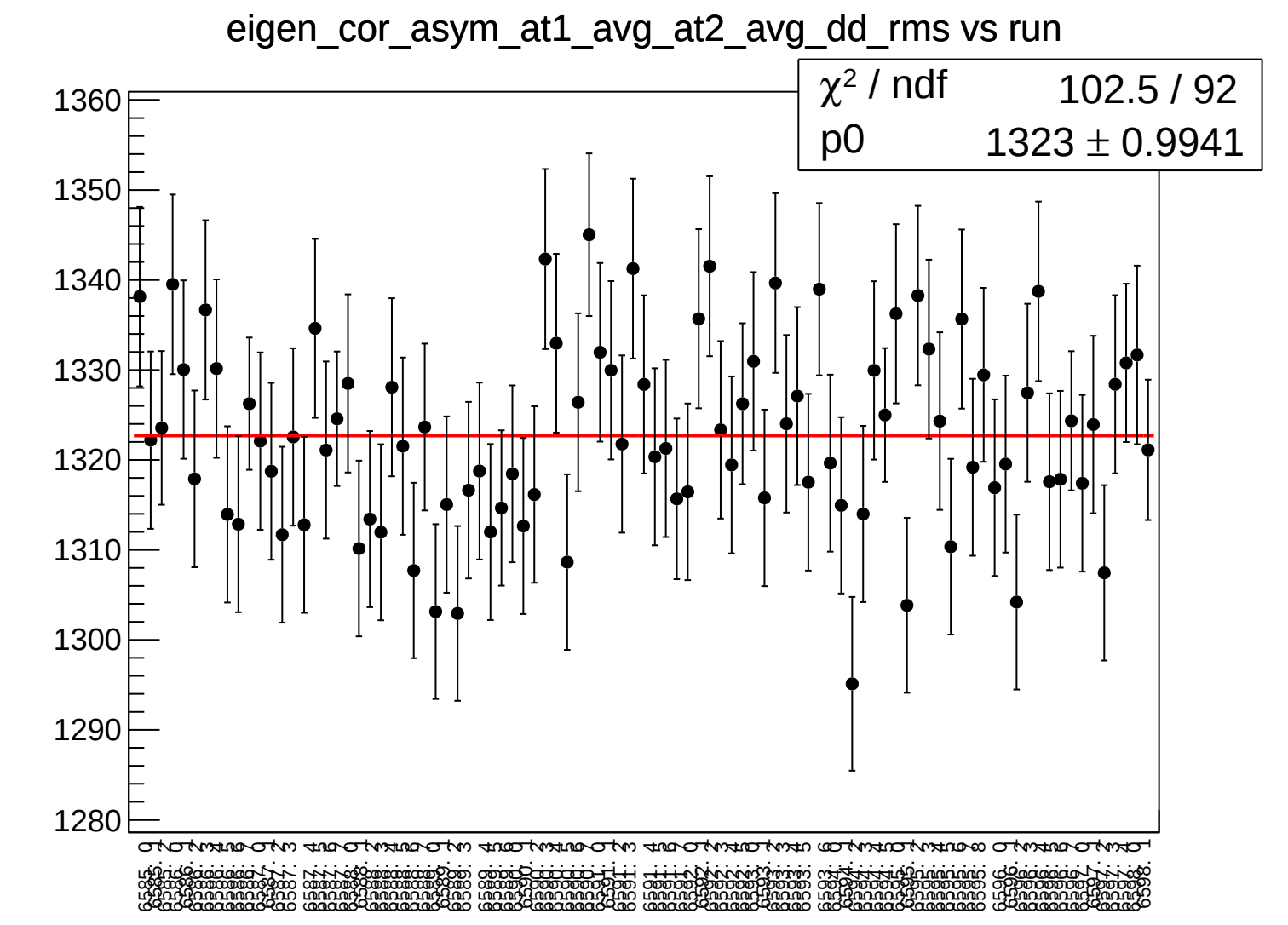

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.39 / 92
p0 −1912 ± 3809
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 192.2
Std Dev 378.5
2
1
0
−1
−2
−3

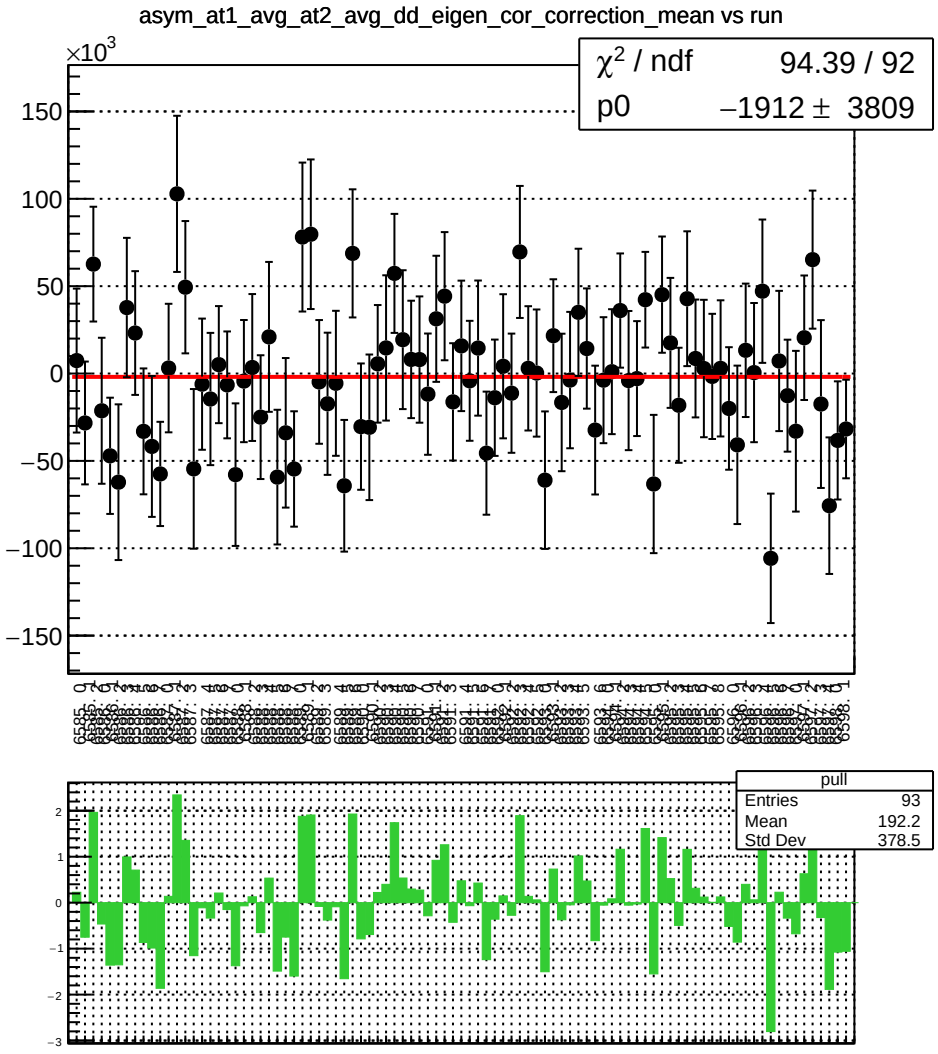

pull1D
Entries 93
Mean −0.0006808
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

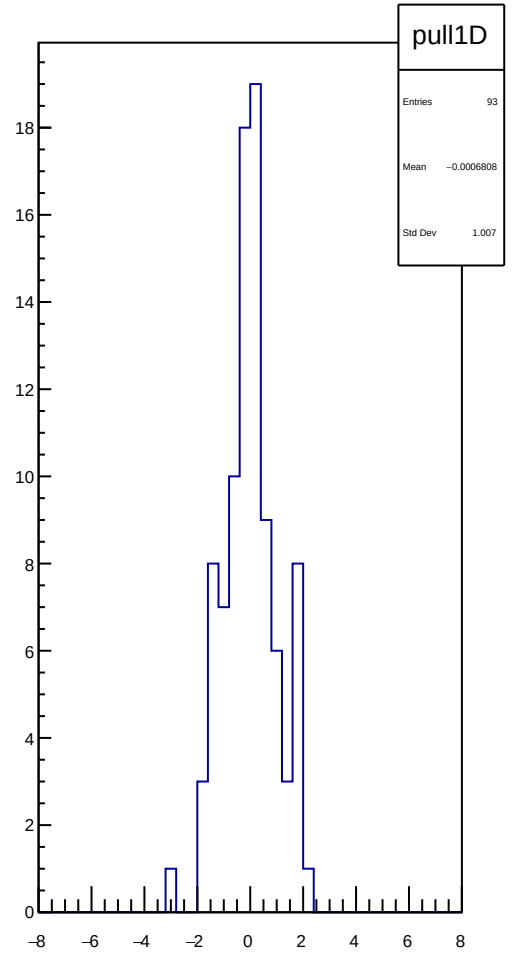

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.402e+04 / 92
p0 3570 ± 2.693
4600
4400
4200
4000
3800
3600
3400
3200
3000

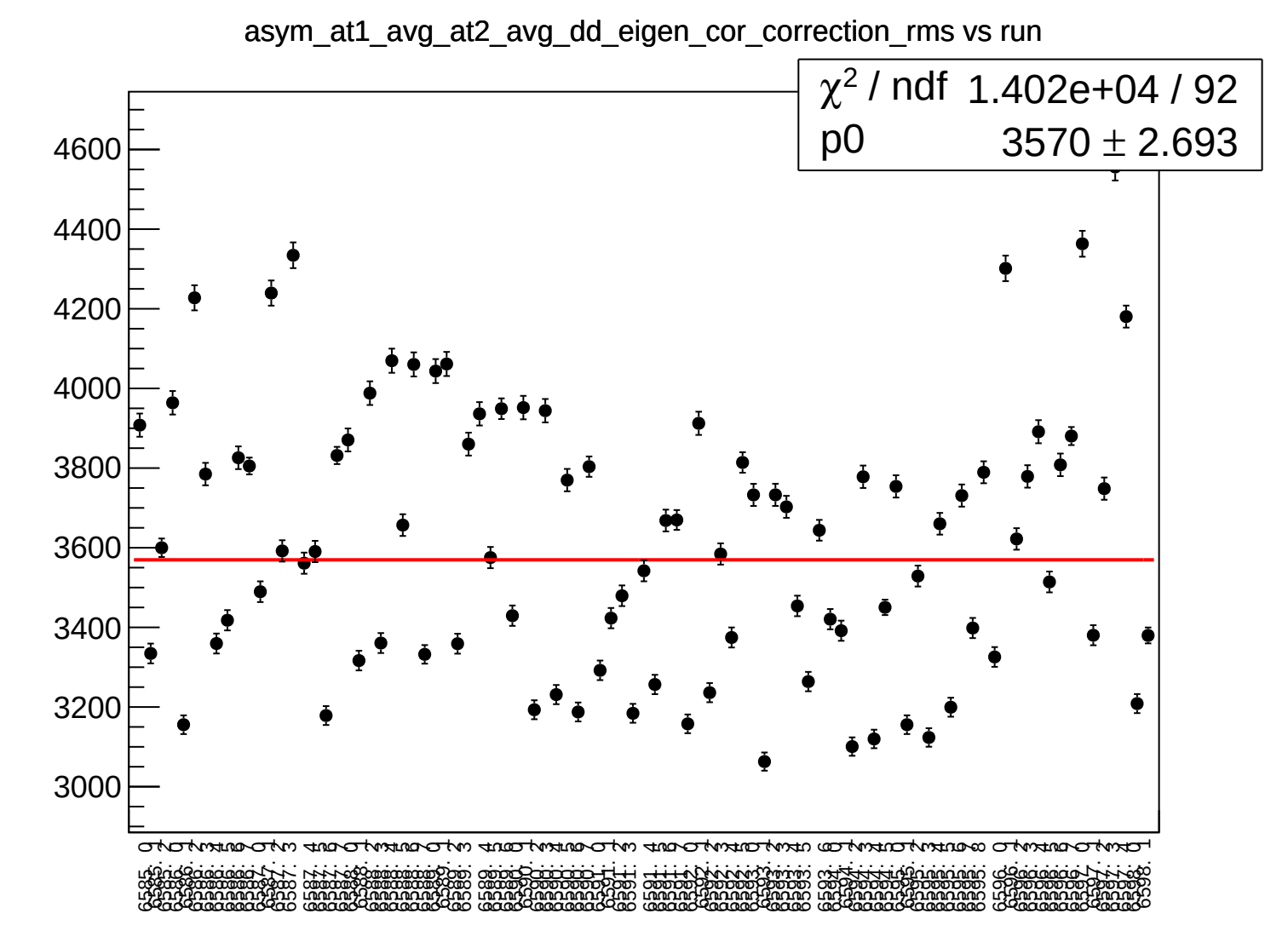

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 105.3 / 92
p0 1312 ± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 4329
Std Dev 0
2
1
0
−1
−2

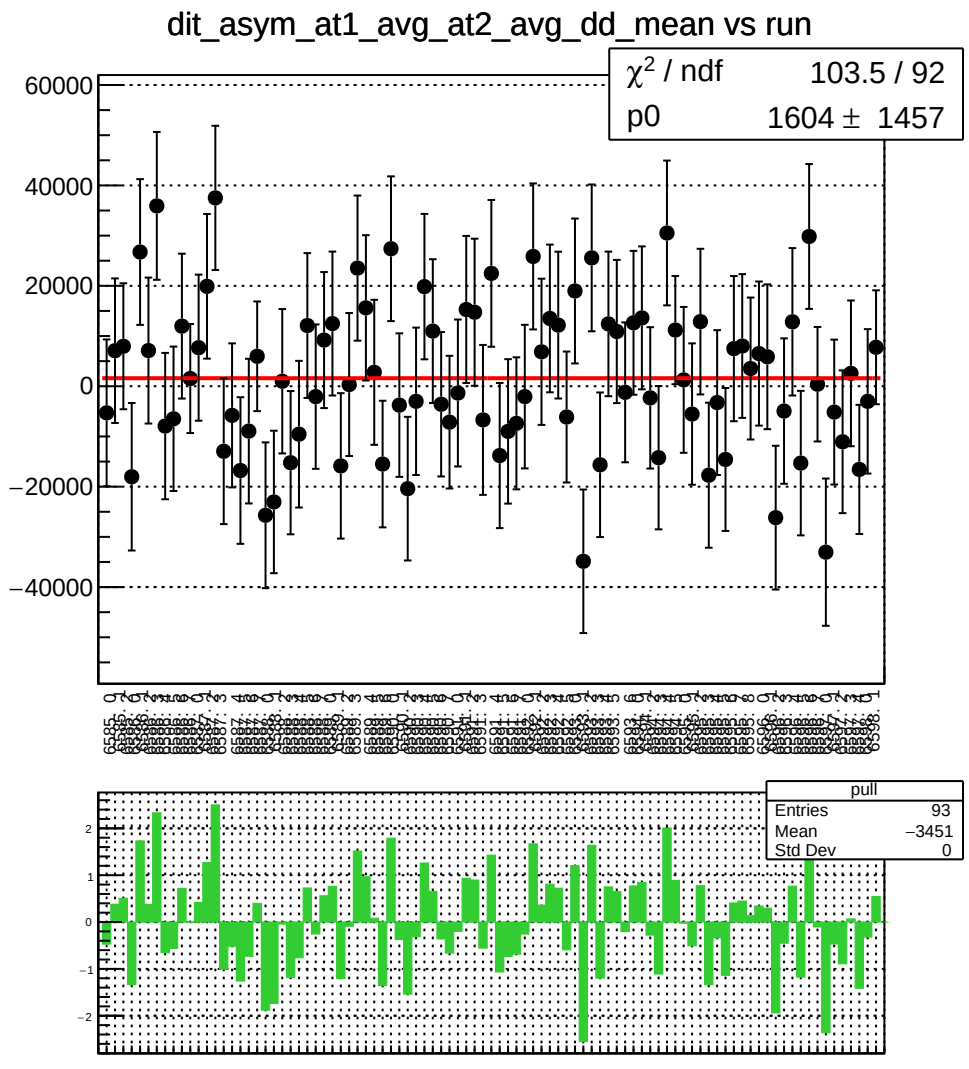

pull1D
Entries 93
Mean −0.0006405
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

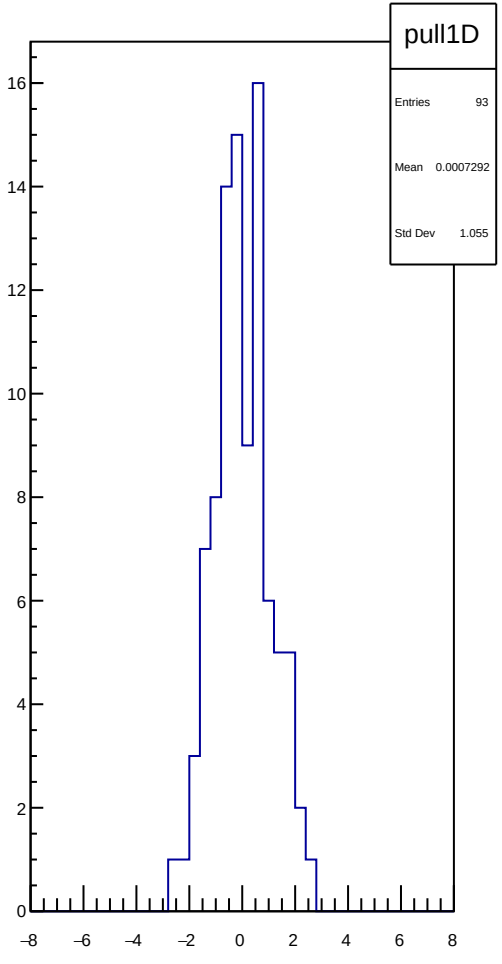

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 102.5 / 92
p0 1323 ± 0.9941
1360
1350
1340
1330
1320
1310
1300
1290
1280

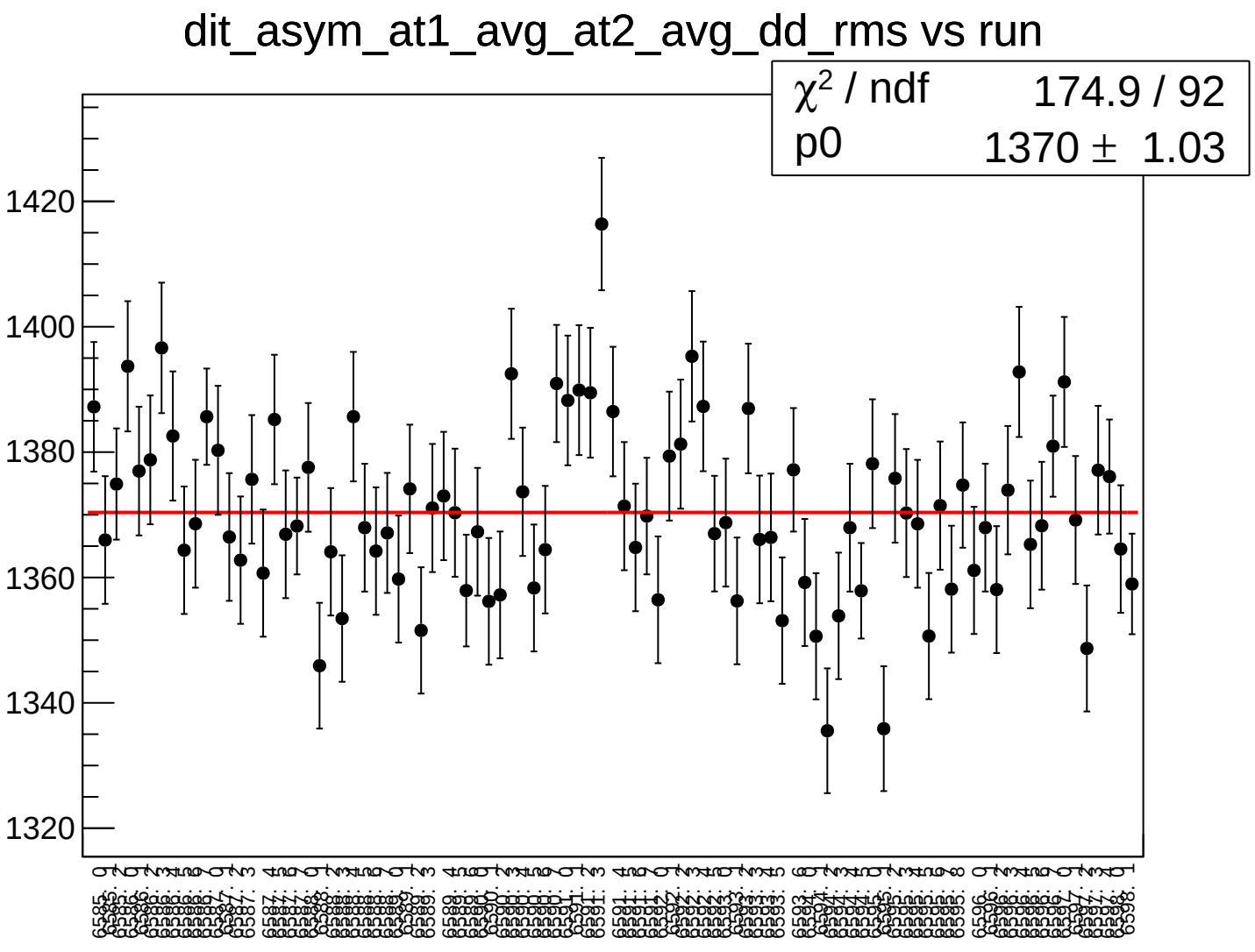

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.39 / 92
p0 −1912 ± 3809
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 192.2
Std Dev 378.5
2
1
0
−1
−2
−3

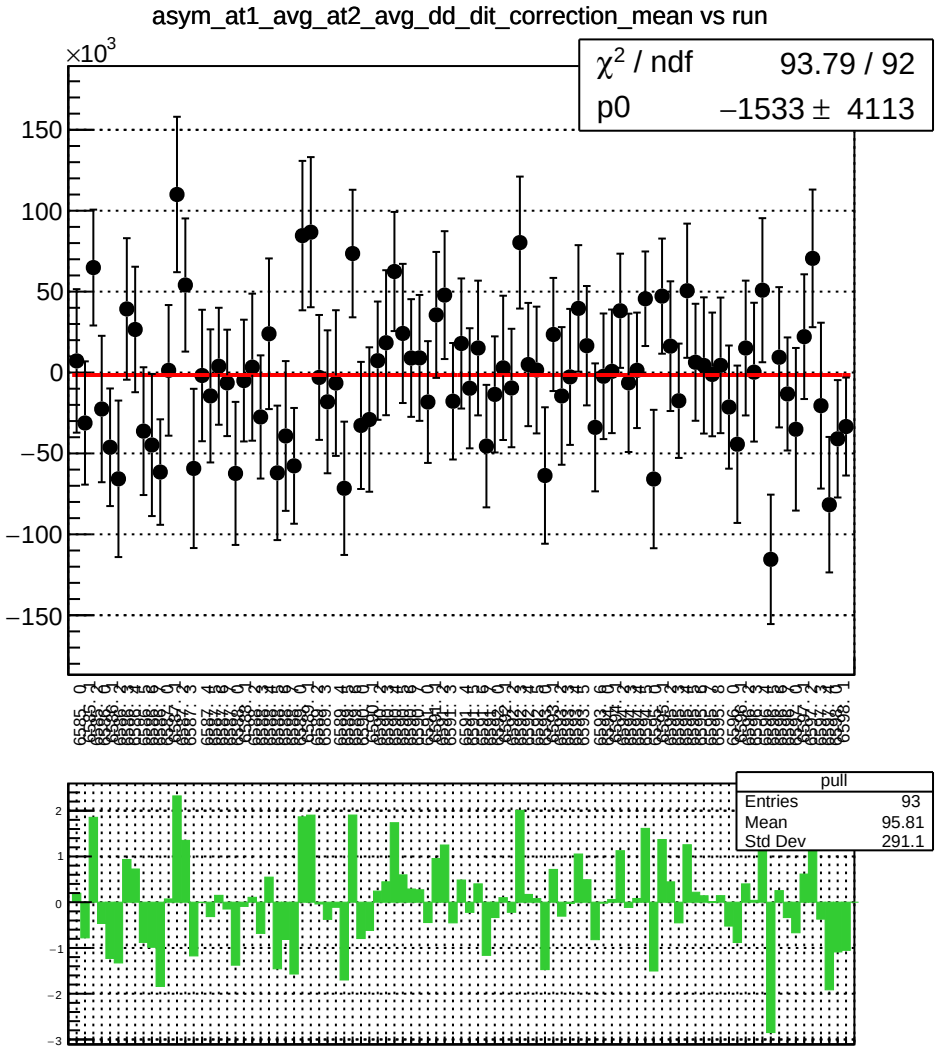

pull1D
Entries 93
Mean −0.0006808
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

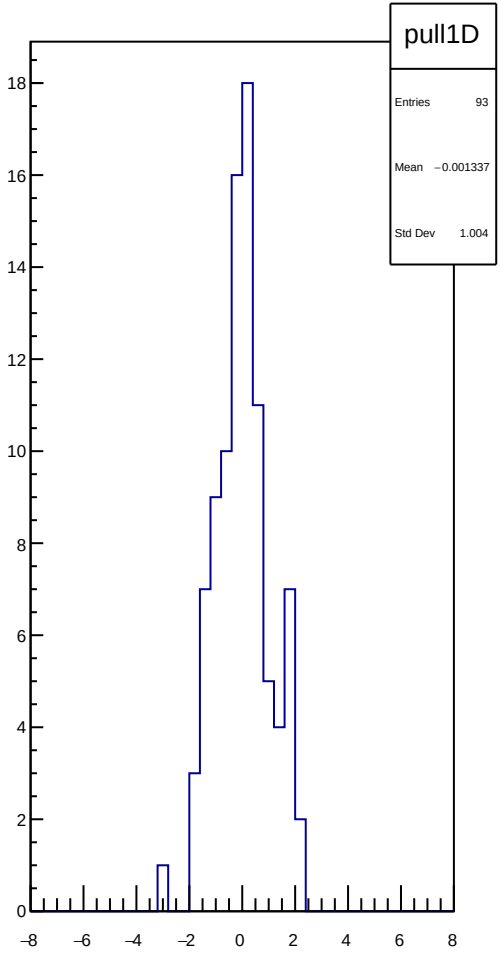

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.402e+04 / 92
p0 3570 ± 2.693
4600
4400
4200
4000
3800
3600
3400
3200
3000

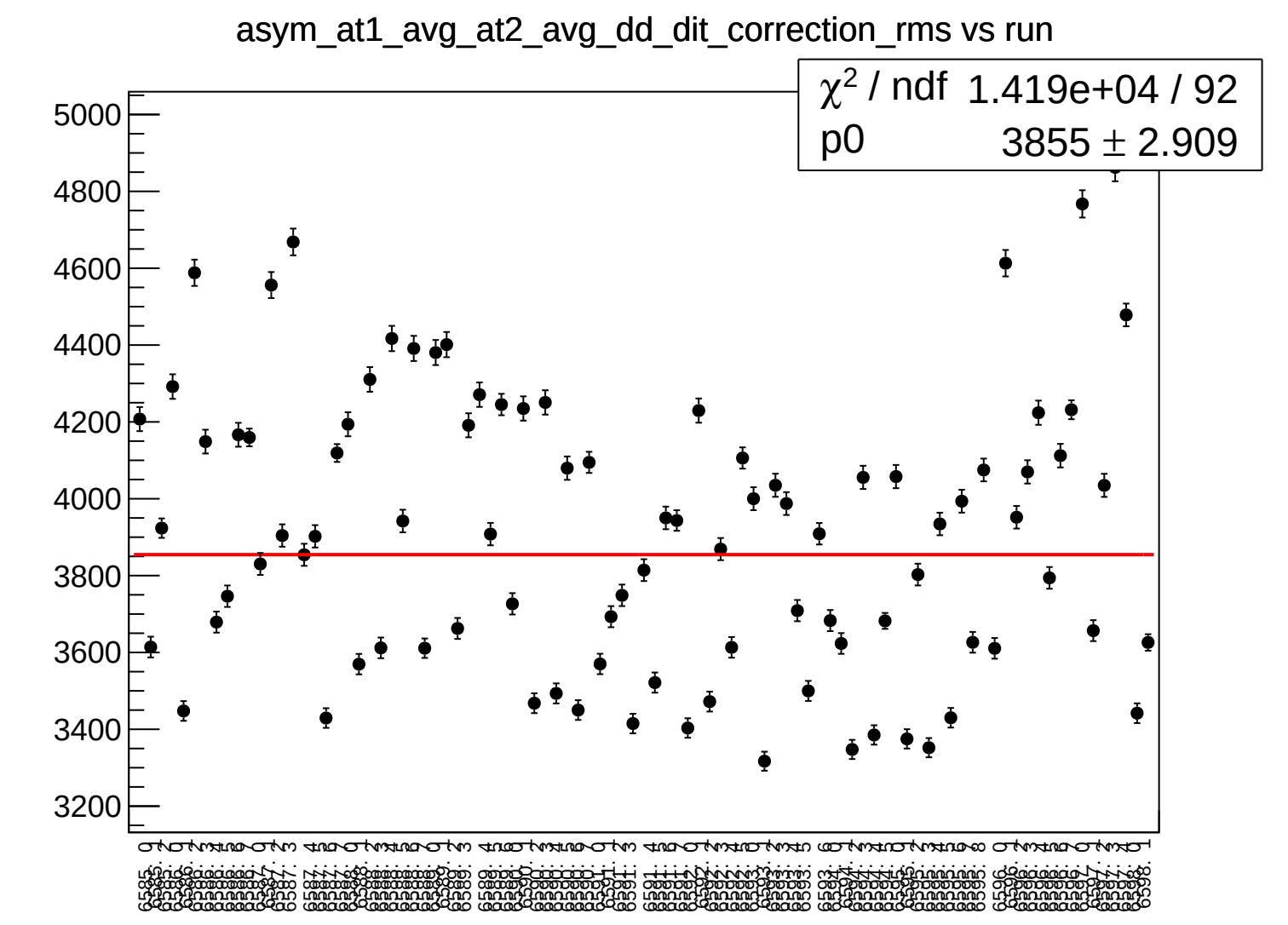

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 103.5 / 92
p0 1604 ± 1457
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −3451
Std Dev 0
2
1
0
−1
−2

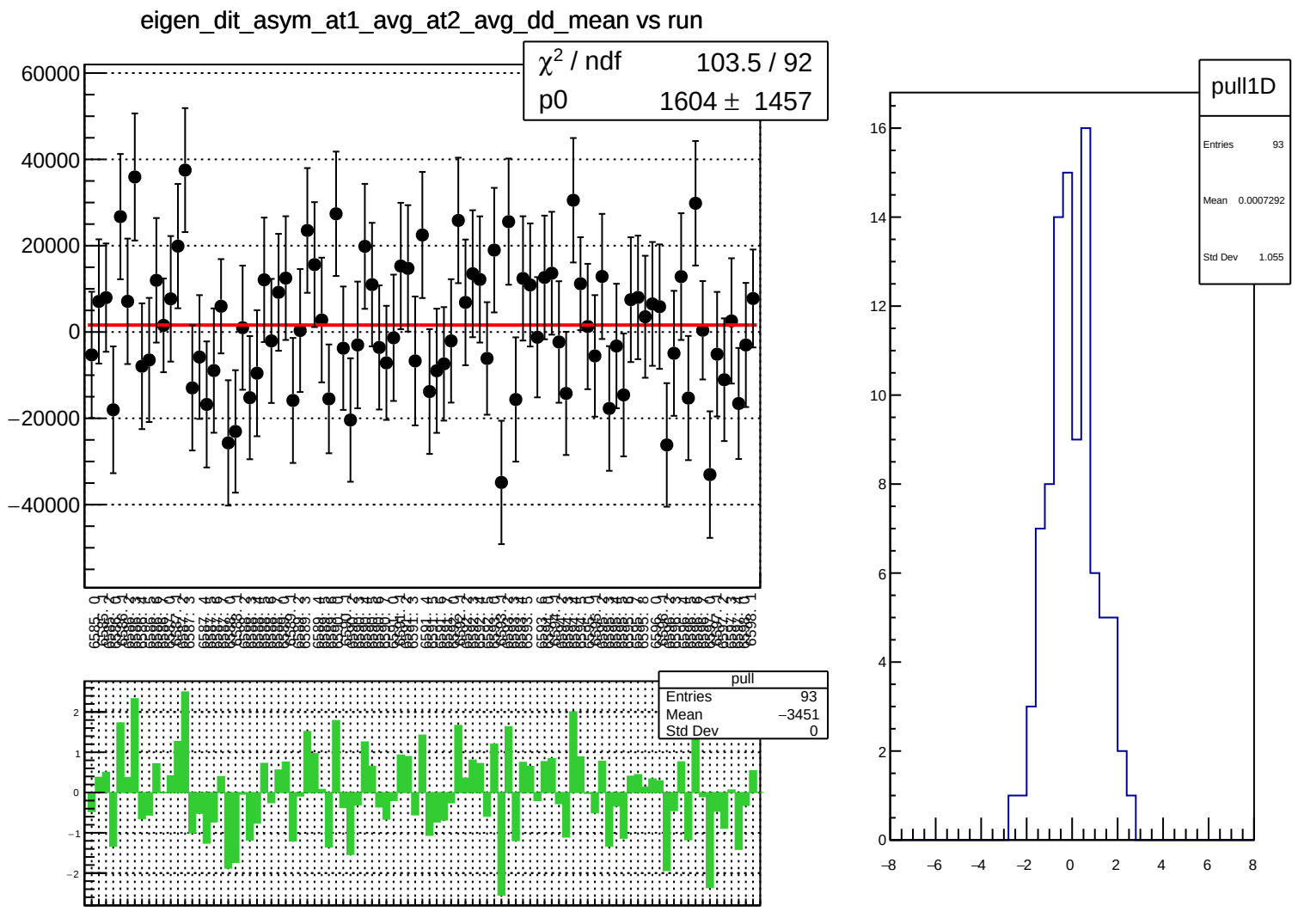

pull1D
Entries 93
Mean 0.0007292
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

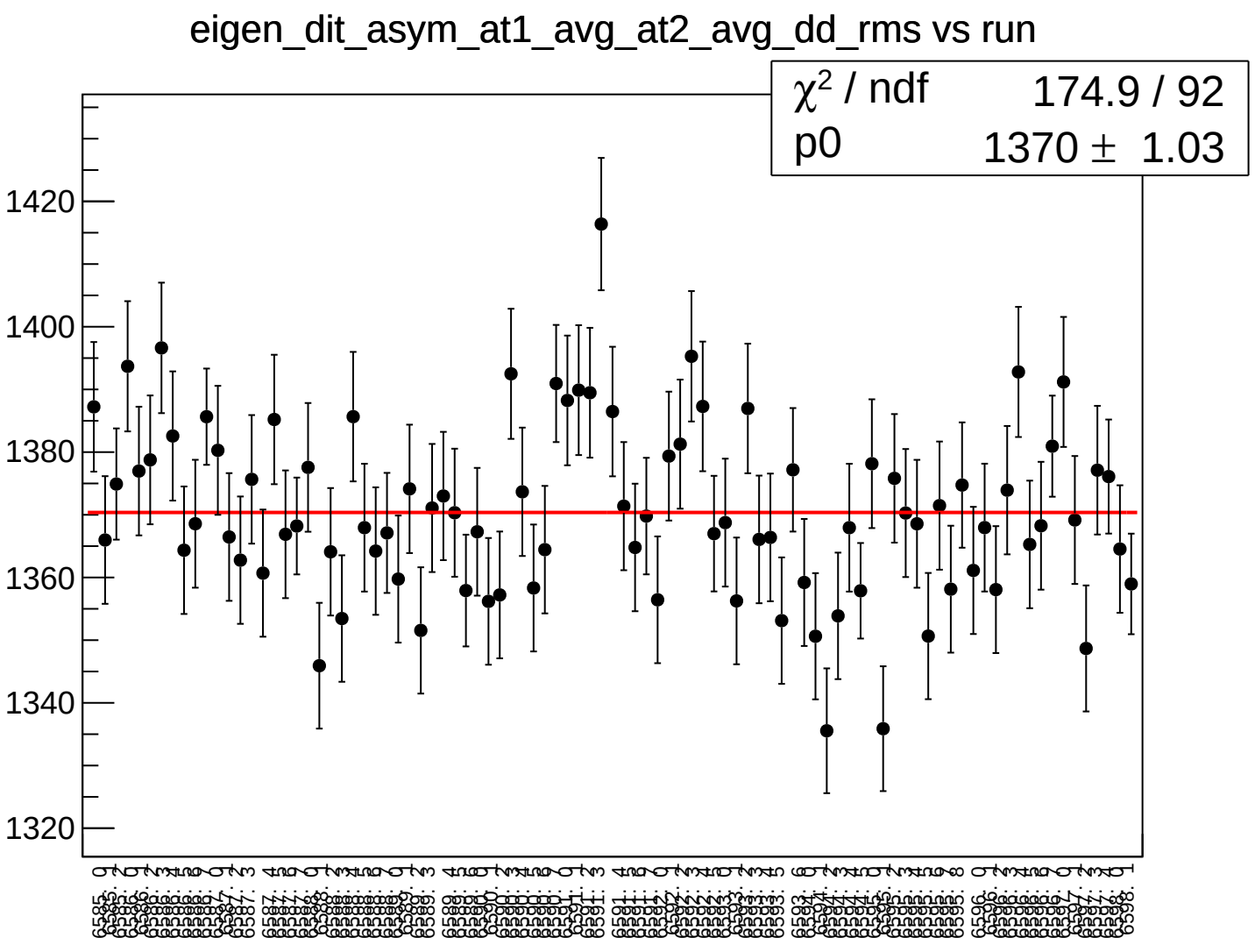

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 174.9 / 92
p0 1370 ± 1.03
1420
1400
1380
1360
1340
1320

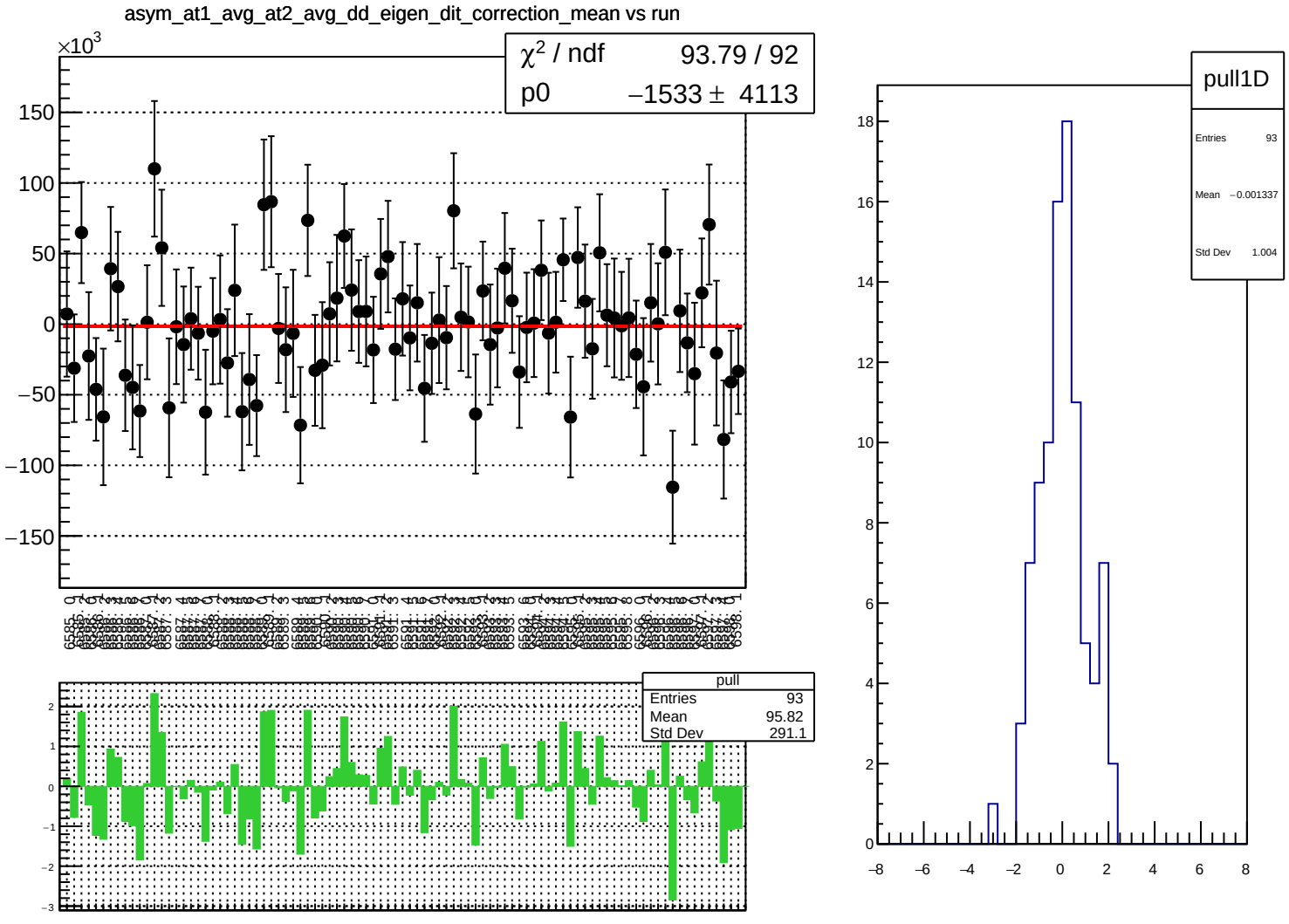

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 93.79 / 92
p0 −1533 ± 4113
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 95.81
Std Dev 291.1
2
1
0
−1
−2
−3

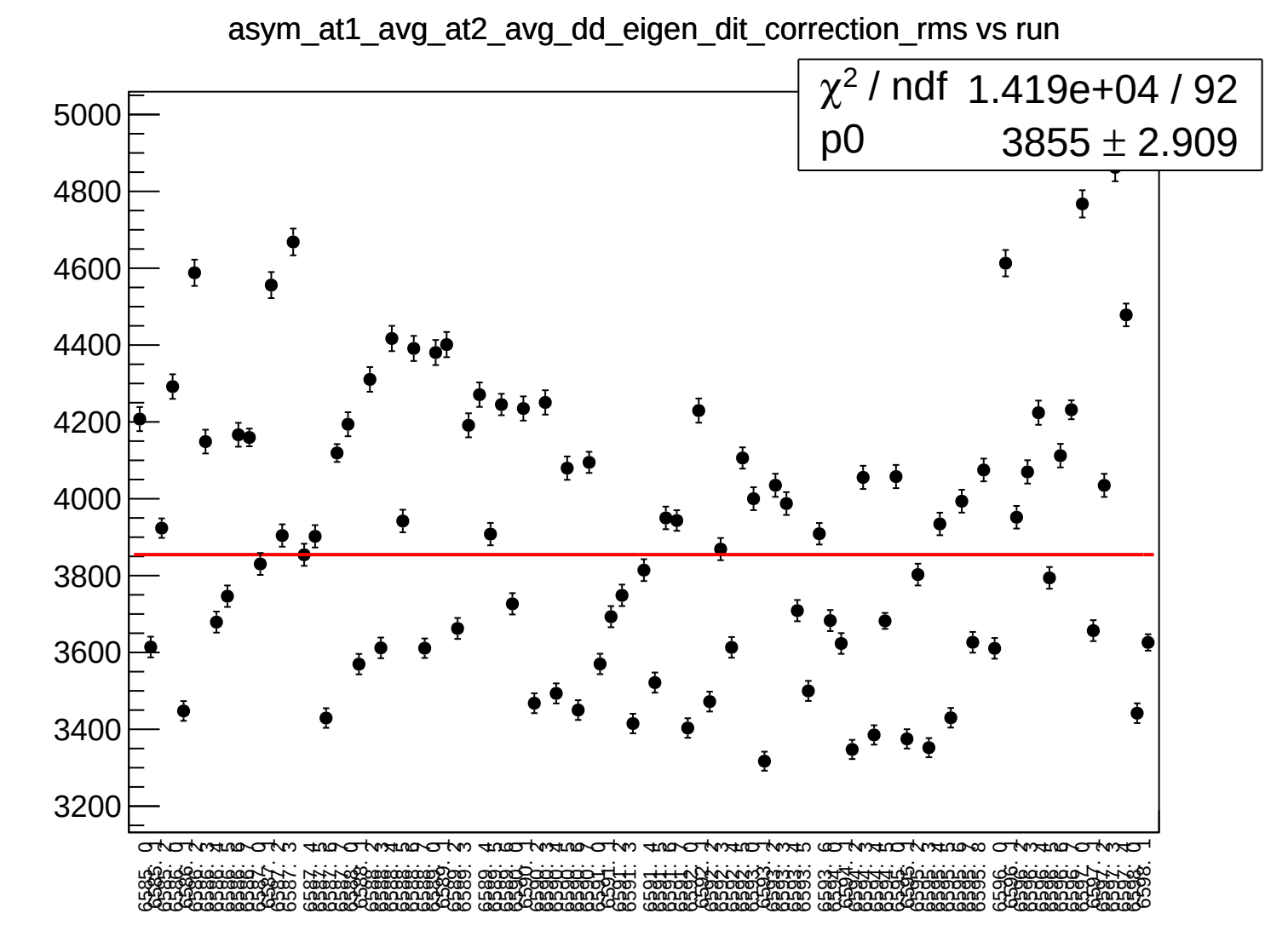

pull1D
Entries 93
Mean −0.001337
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

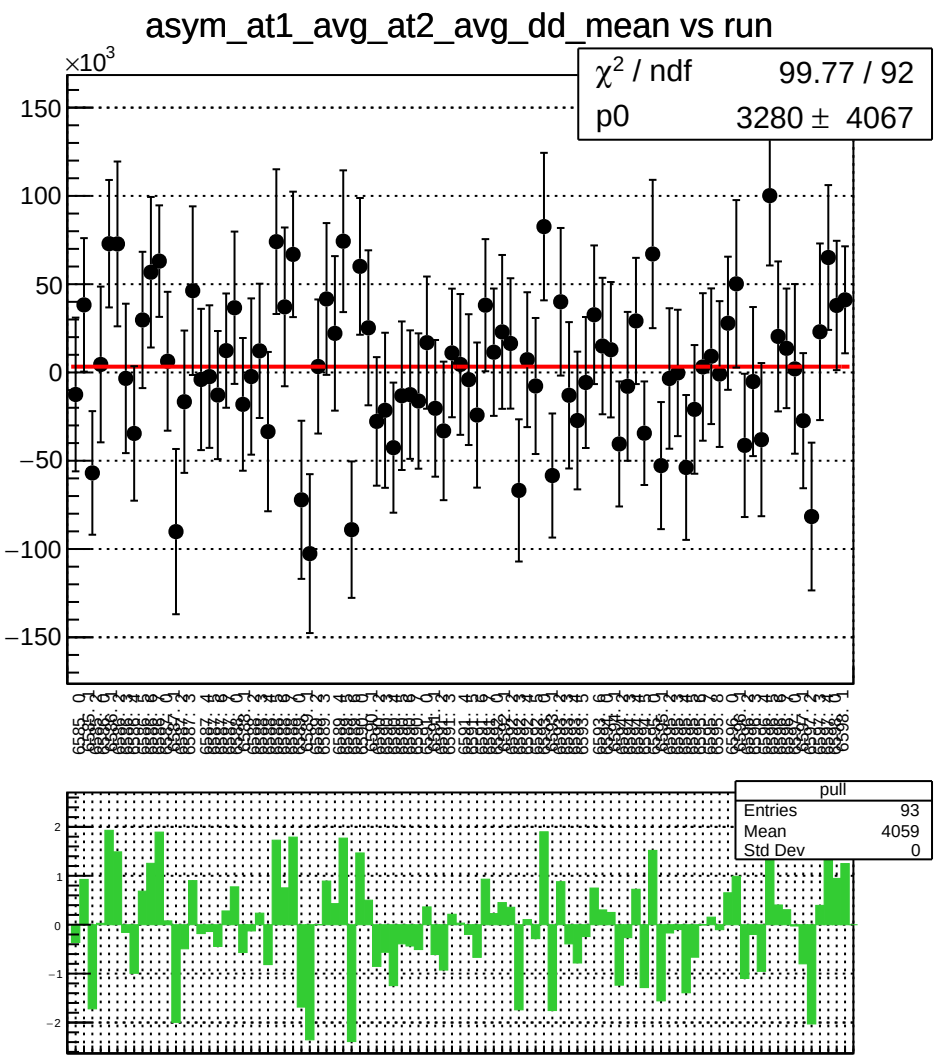

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.419e+04 / 92
p0 3855 ± 2.909
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

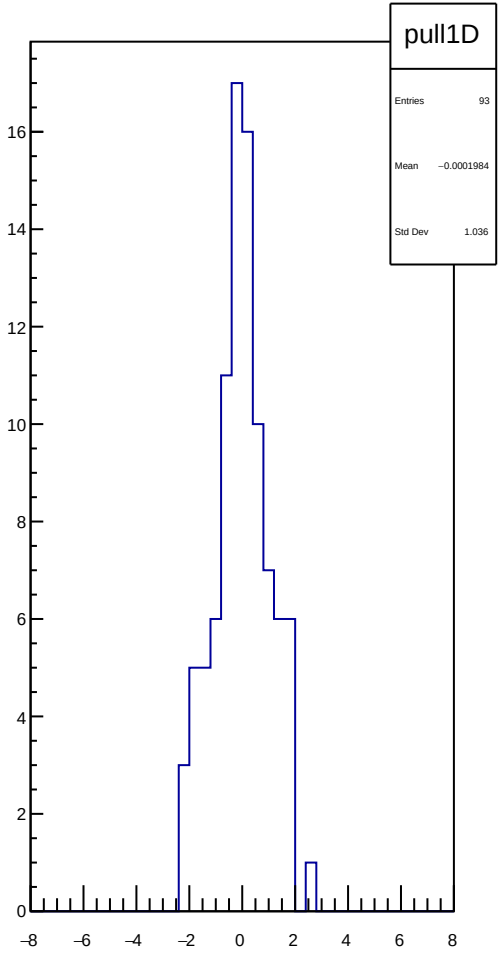

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 103.5 / 92
p0 1604 ± 1457
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −3451
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0007292
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

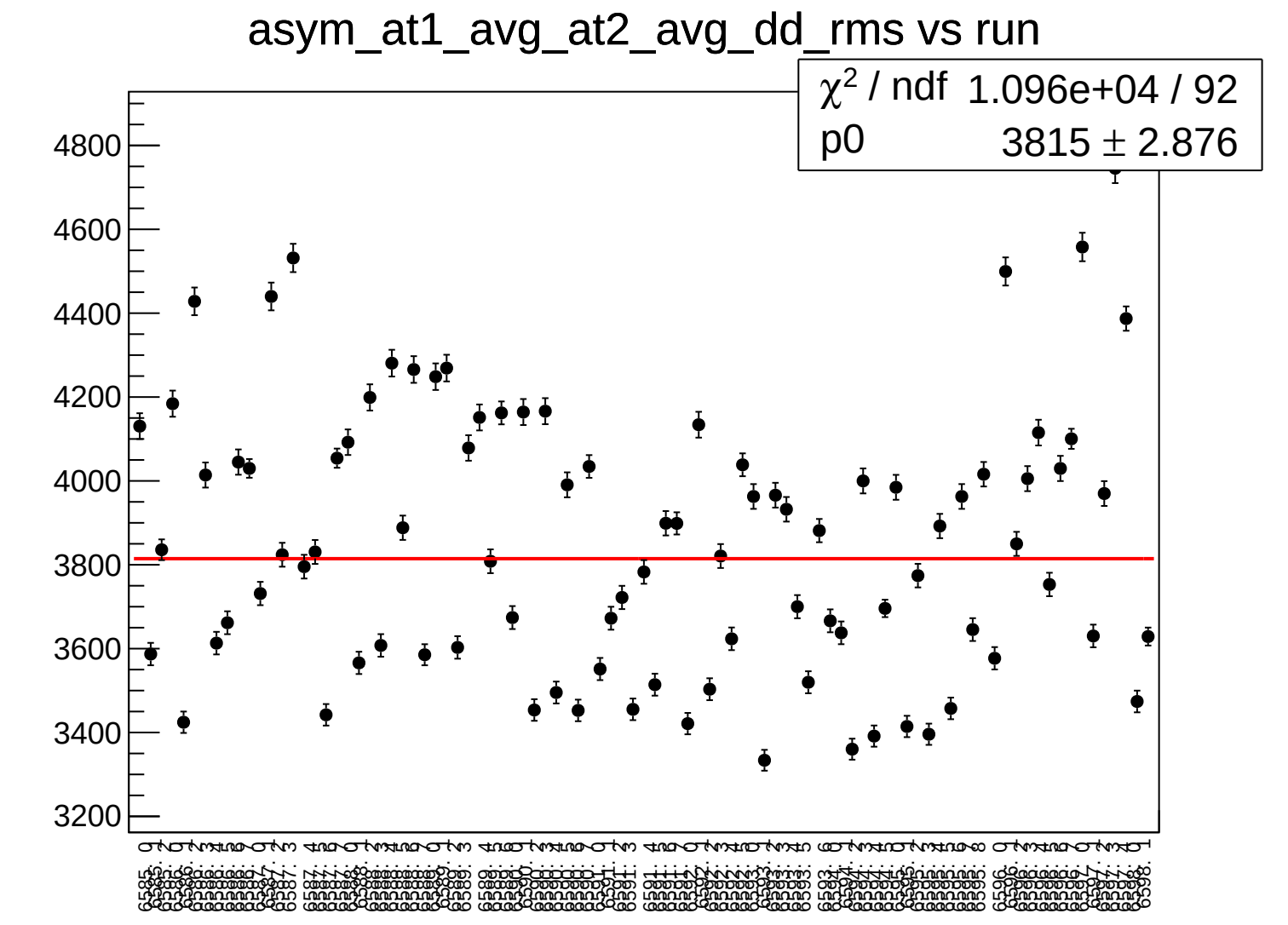

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 174.9 / 92
p0 1370 ± 1.03
1420
1400
1380
1360
1340
1320

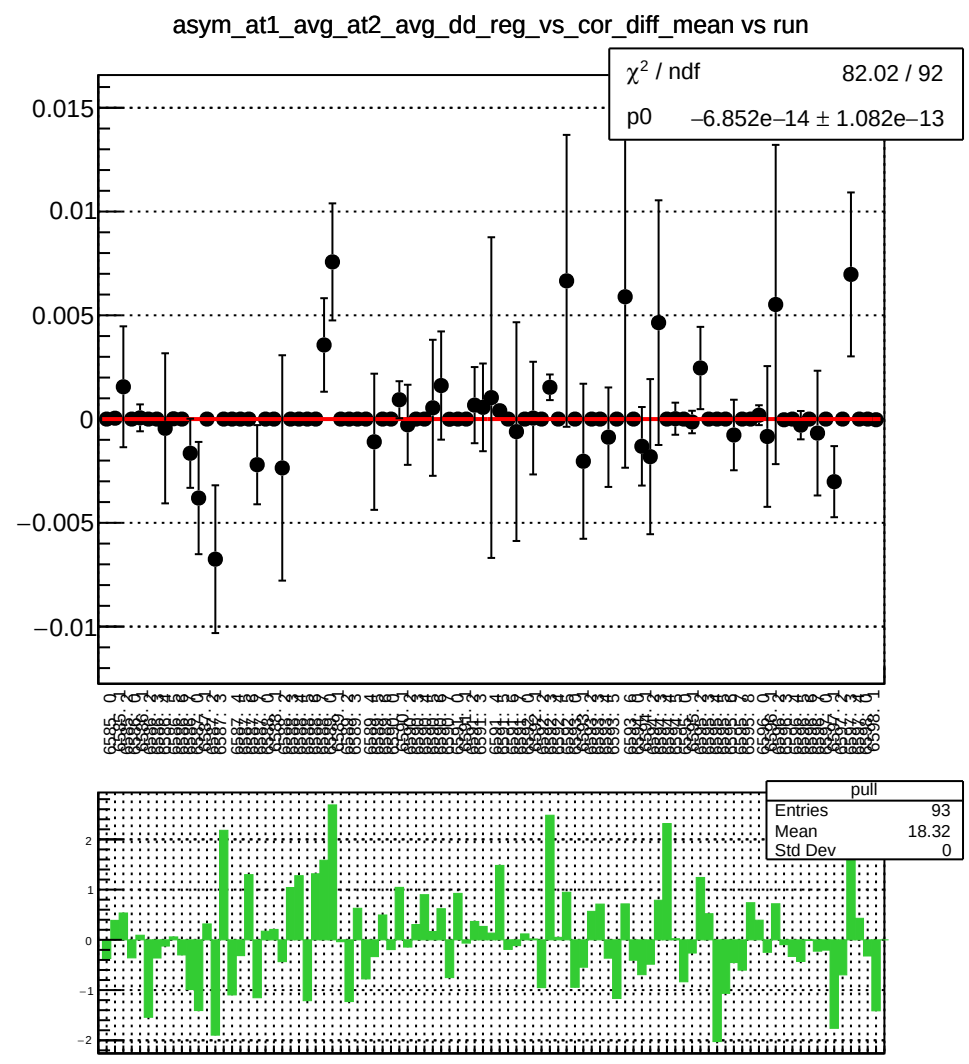

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.79 / 92
p0 −1533 ± 4113
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 95.82
Std Dev 291.1
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.001337
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

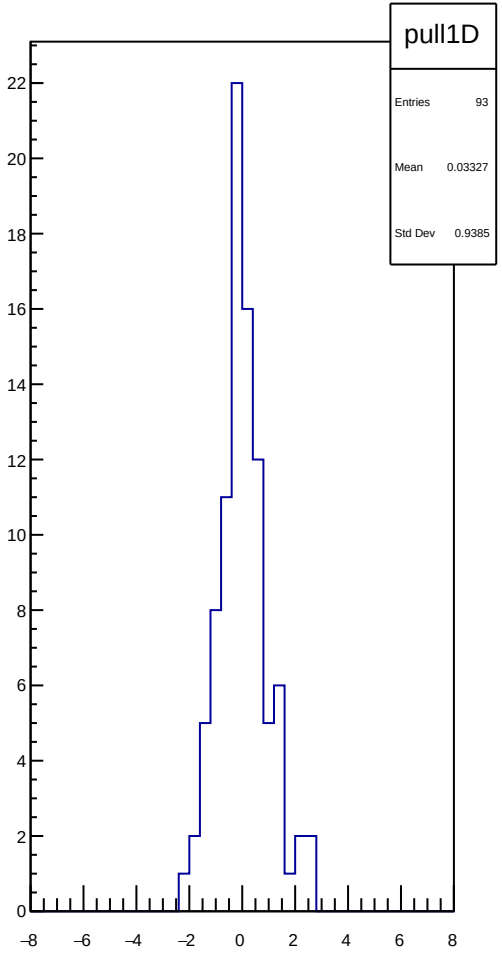

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.419e+04 / 92
p0 3855 ± 2.909
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

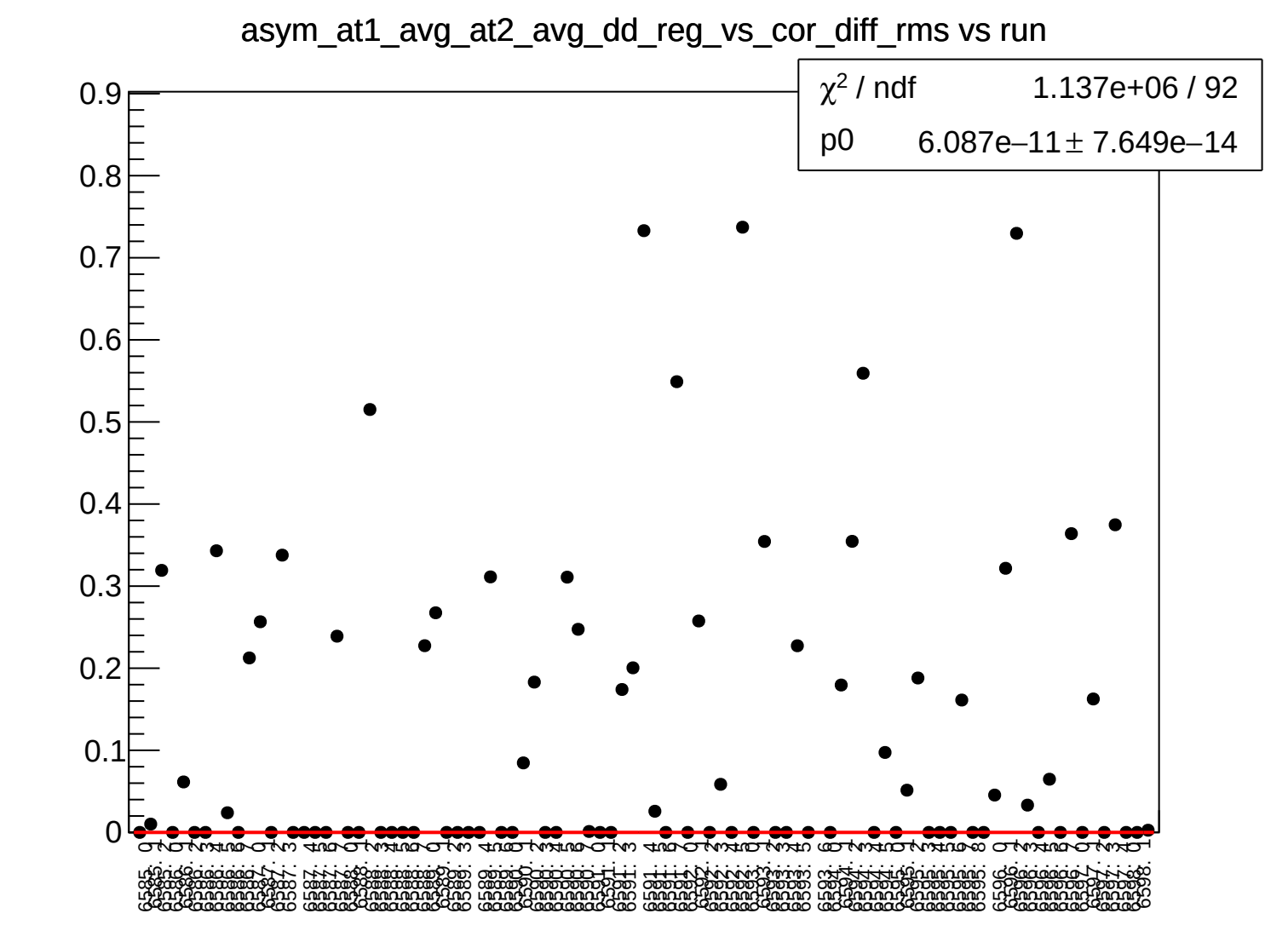

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 99.77 / 92
p0 3280 ± 4067
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 4059
Std Dev 0
2
1
0
−1
−2

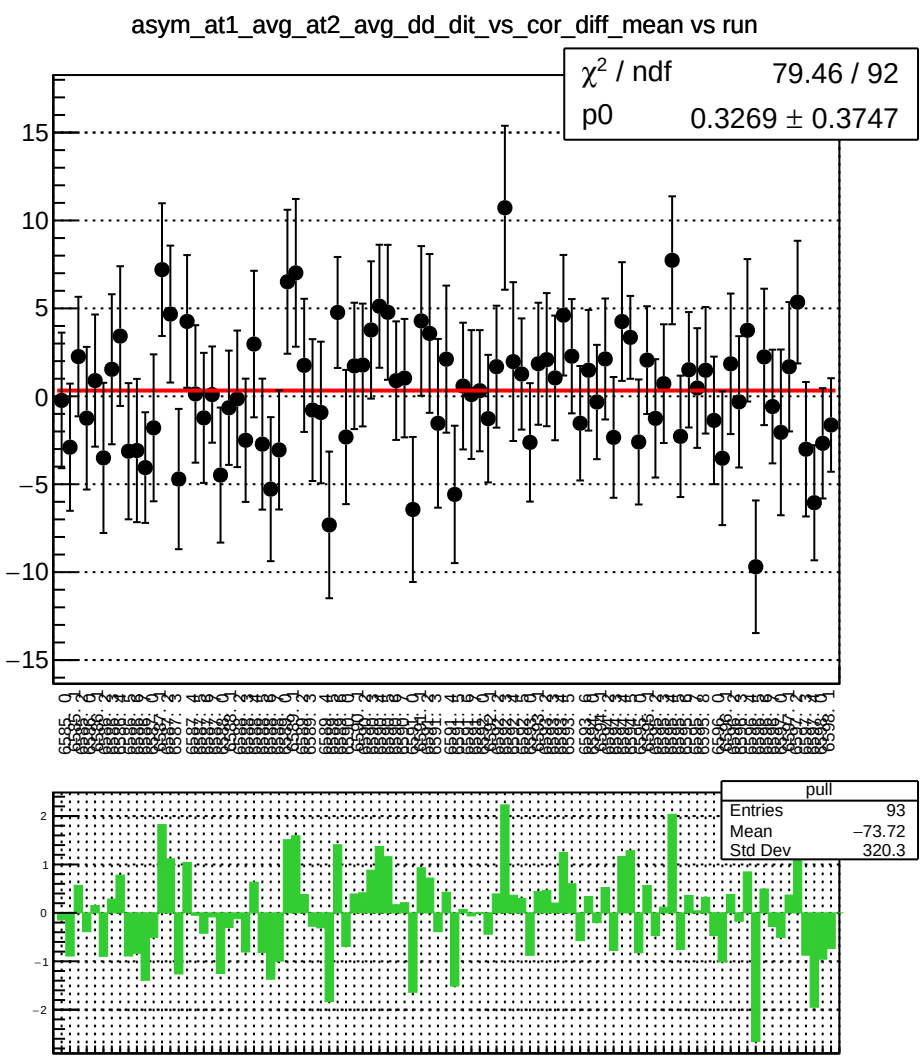

pull1D
Entries 93
Mean −0.0001984
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

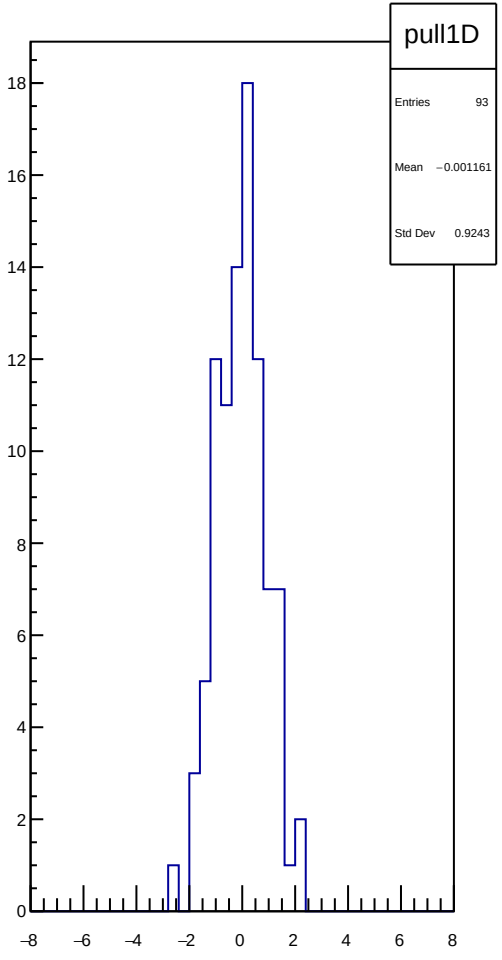

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.096e+04 / 92
p0 3815 ± 2.876
4800
4600
4400
4200
4000
3800
3600
3400
3200

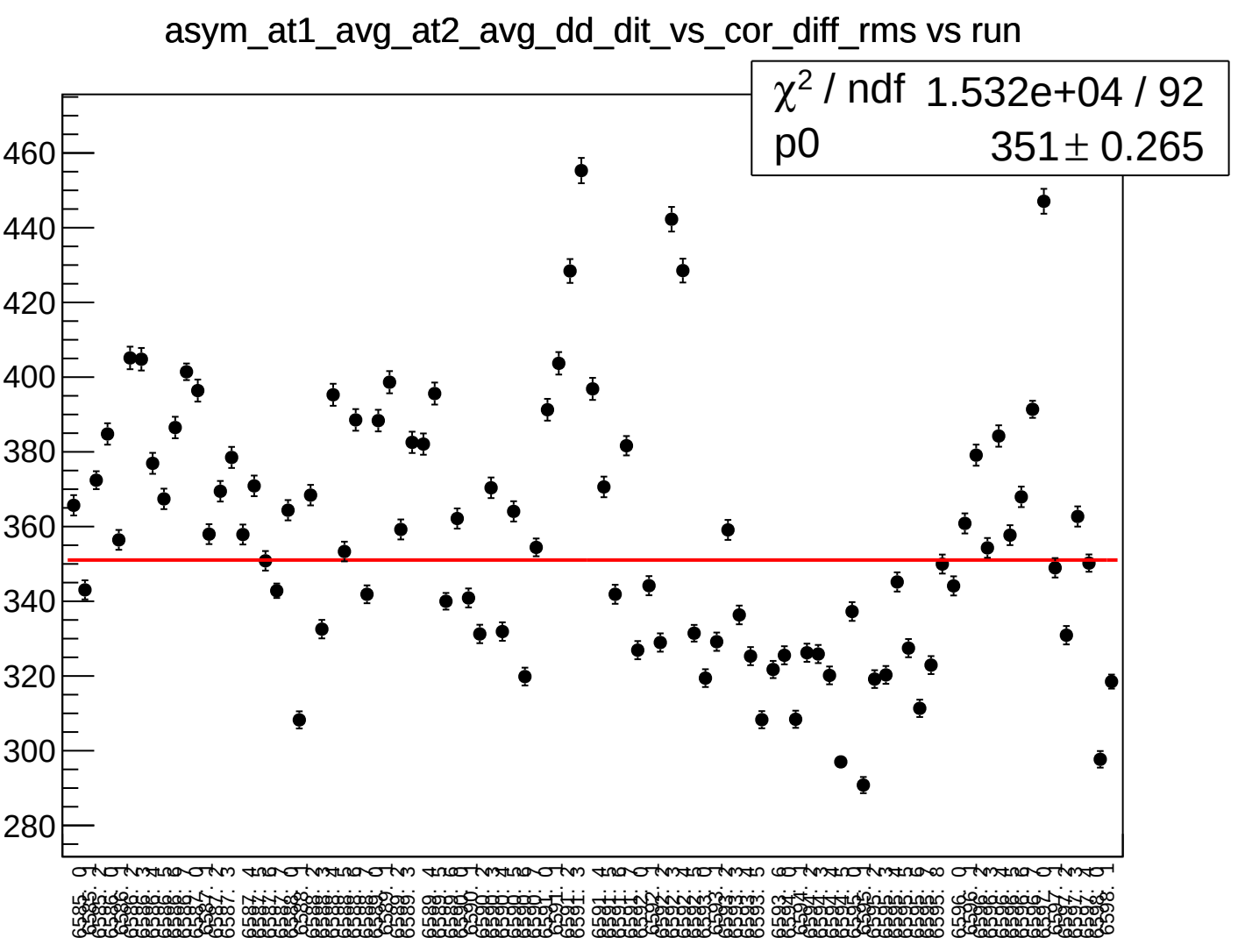

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.02 / 92
p0 −6.852e−14 ± 1.082e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 18.32
Std Dev 0
2
1
0
−1
−2

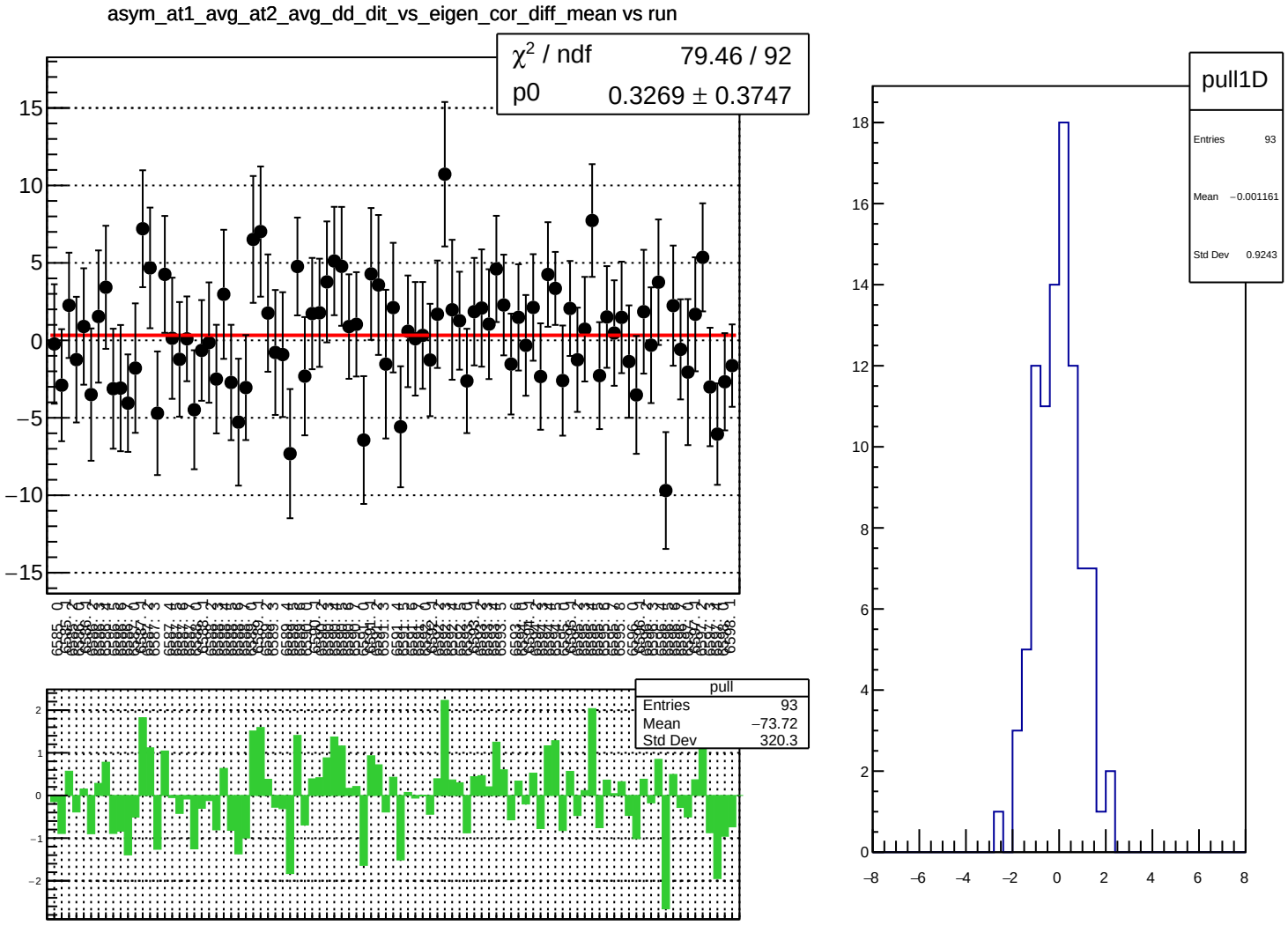

pull1D
Entries 93
Mean 0.03327
Std Dev 0.9385
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

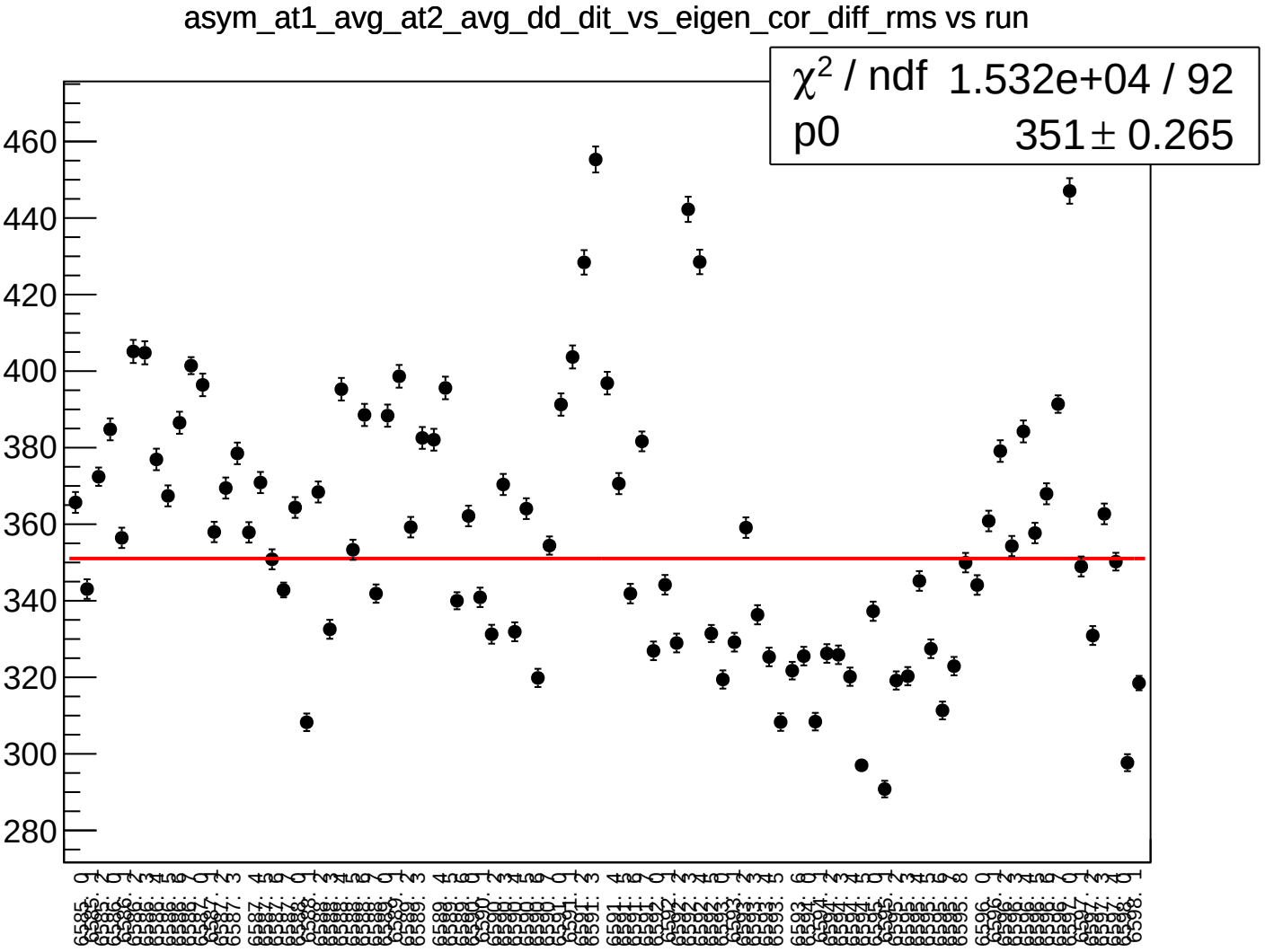

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 92
p0 6.087e−11 ± 7.649e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

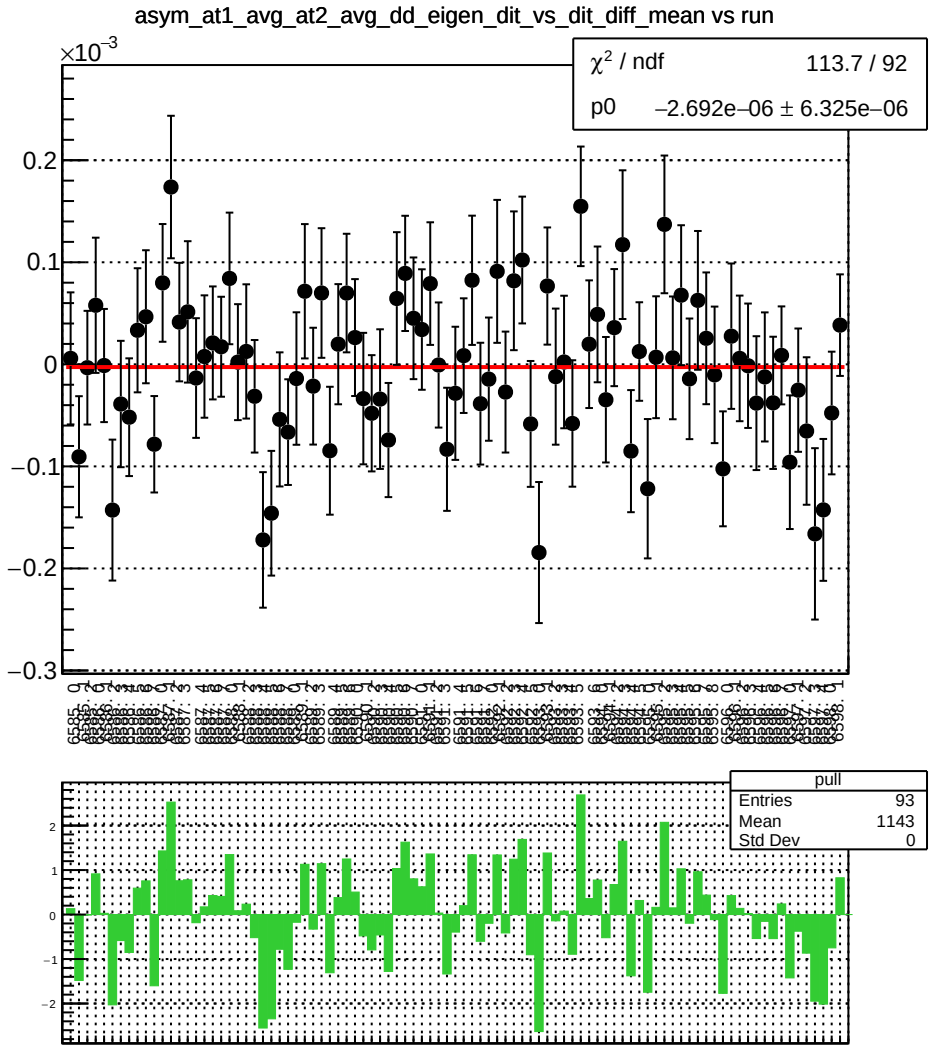

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.72
Std Dev 320.3

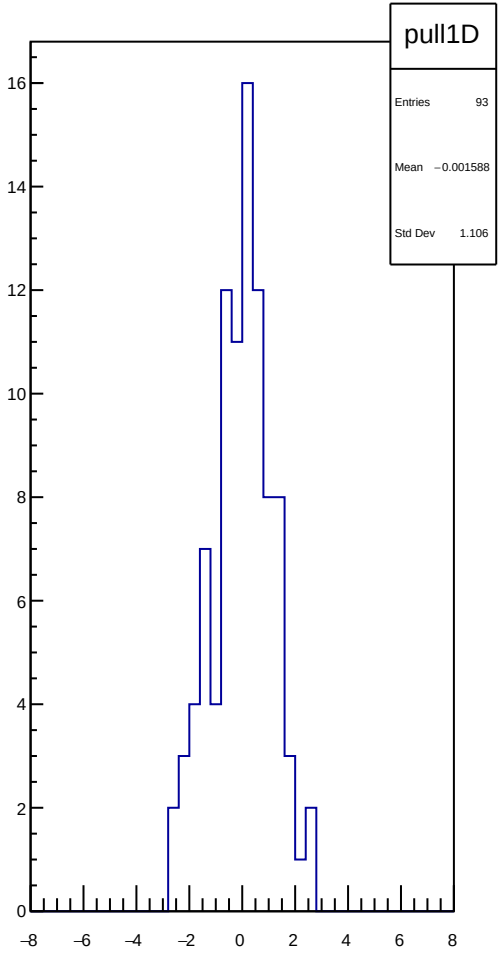

pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

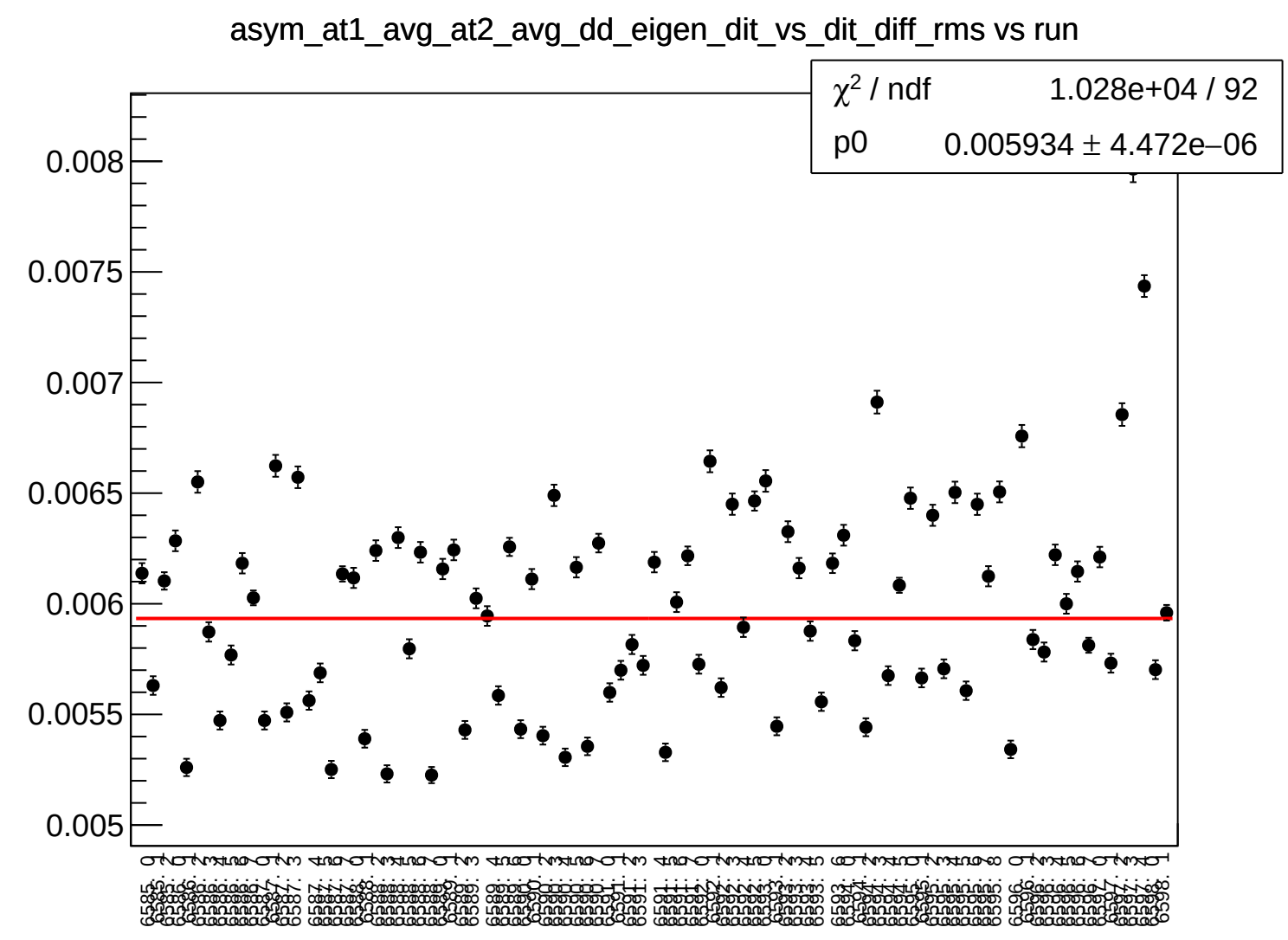

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

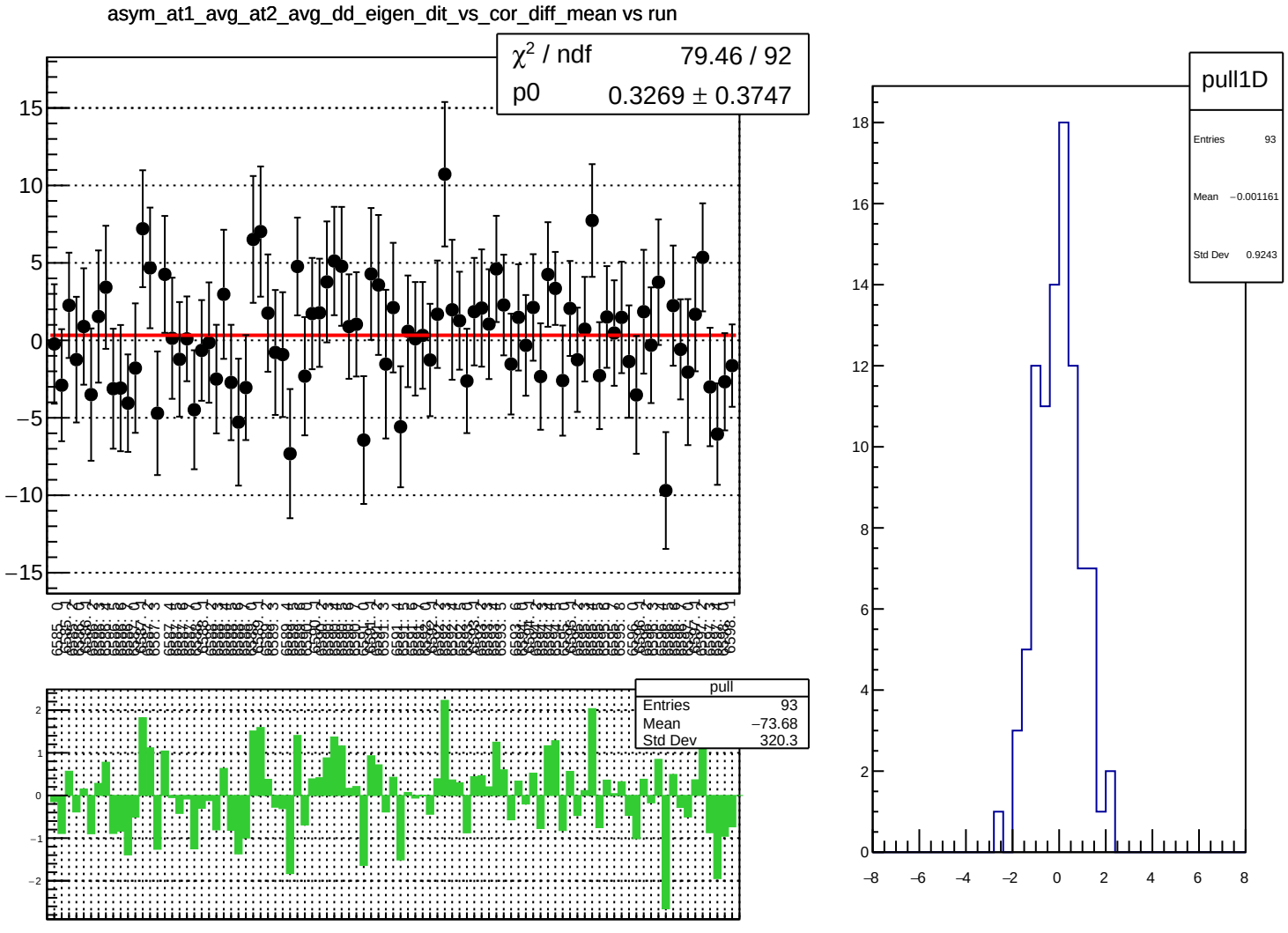

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.72
Std Dev 320.3
pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

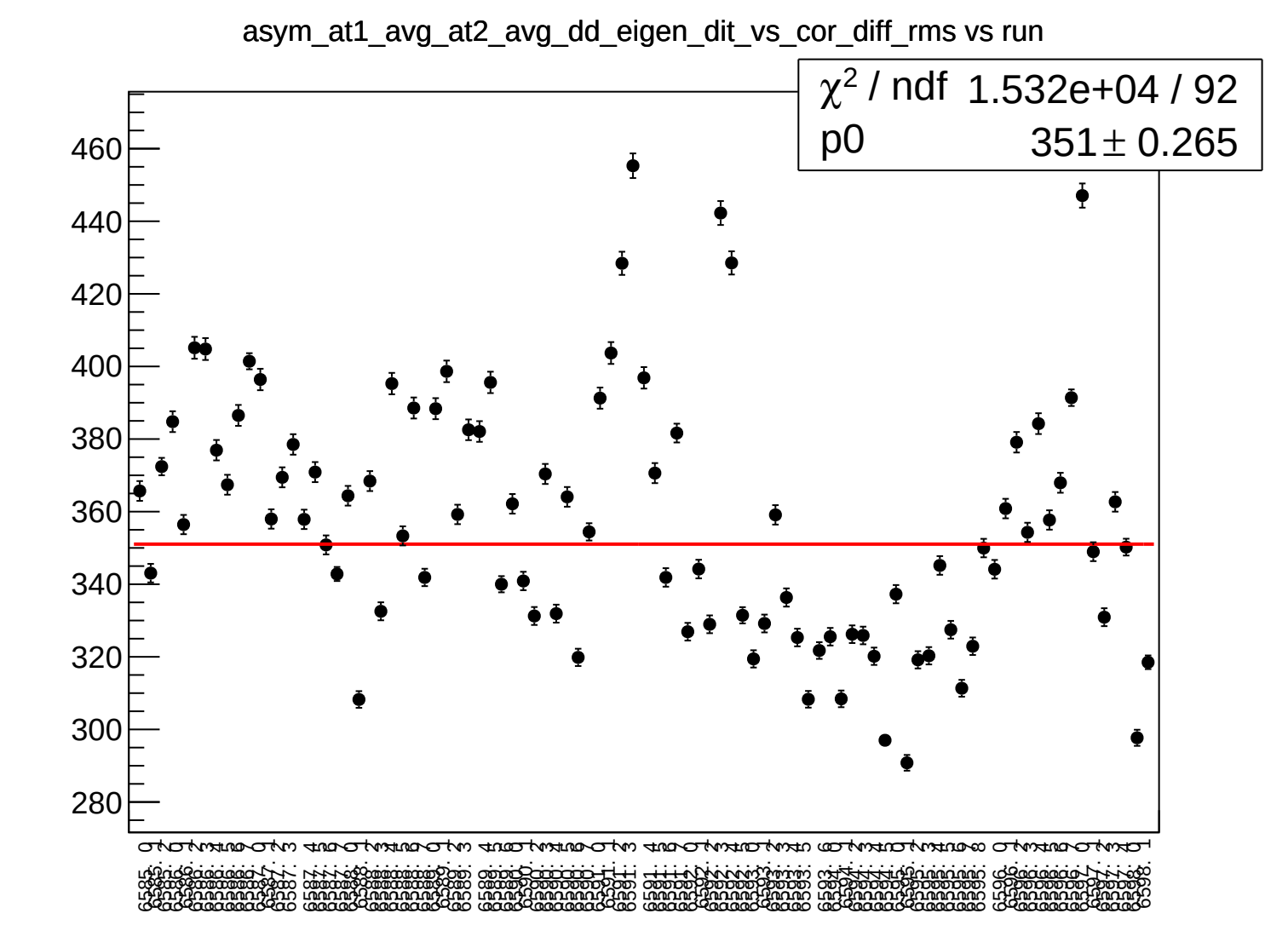

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

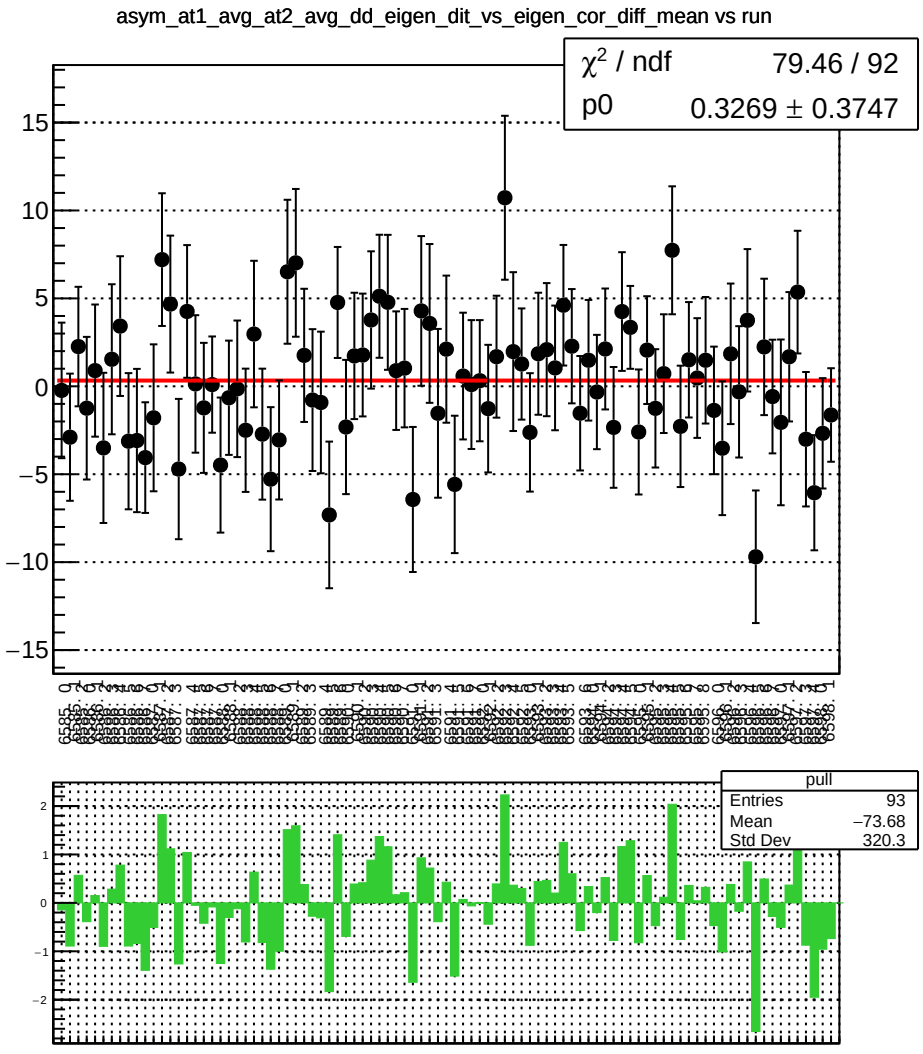

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.7 / 92
p0 −2.692e−06 ± 6.325e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean 1143
Std Dev 0
2
1
0
−1
−2

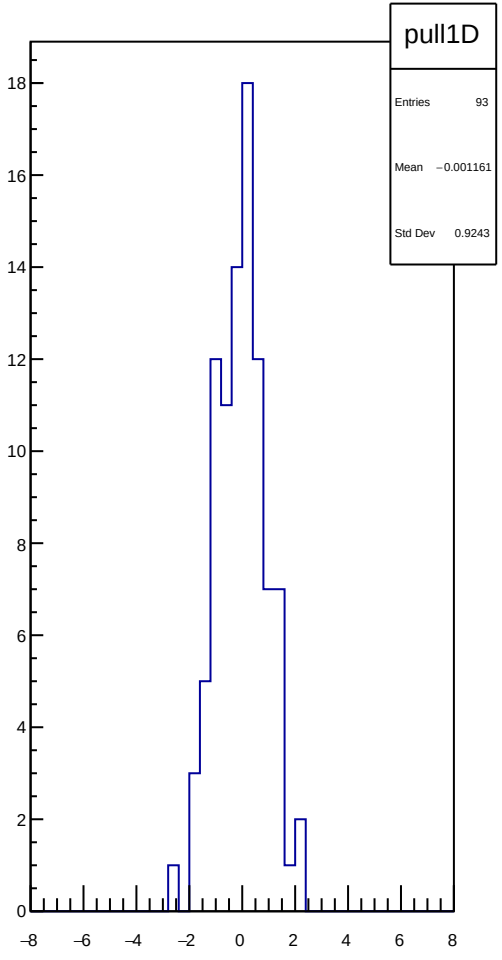

pull1D
Entries 93
Mean −0.001588
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

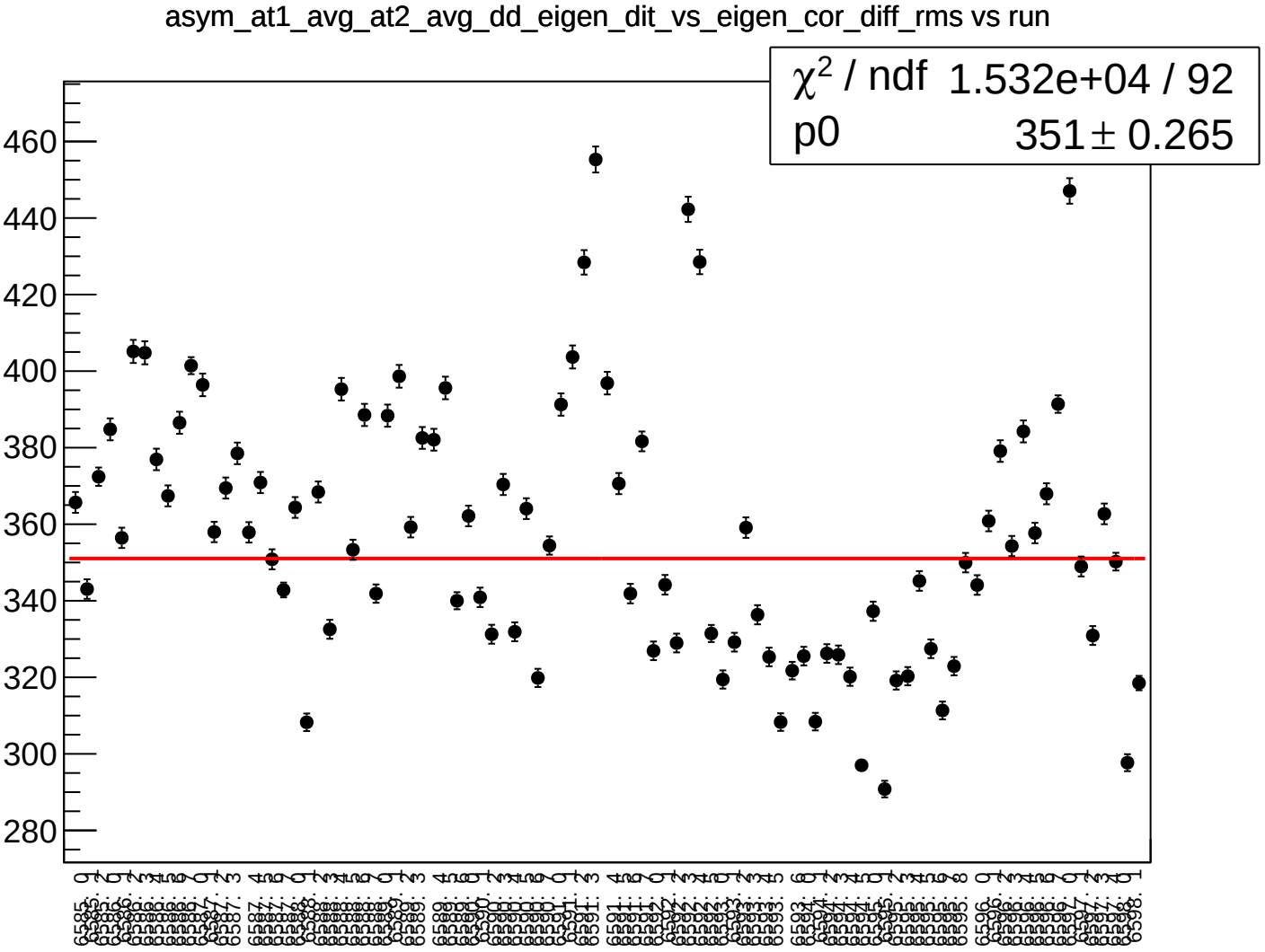

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.028e+04 / 92
p0 0.005934 ± 4.472e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

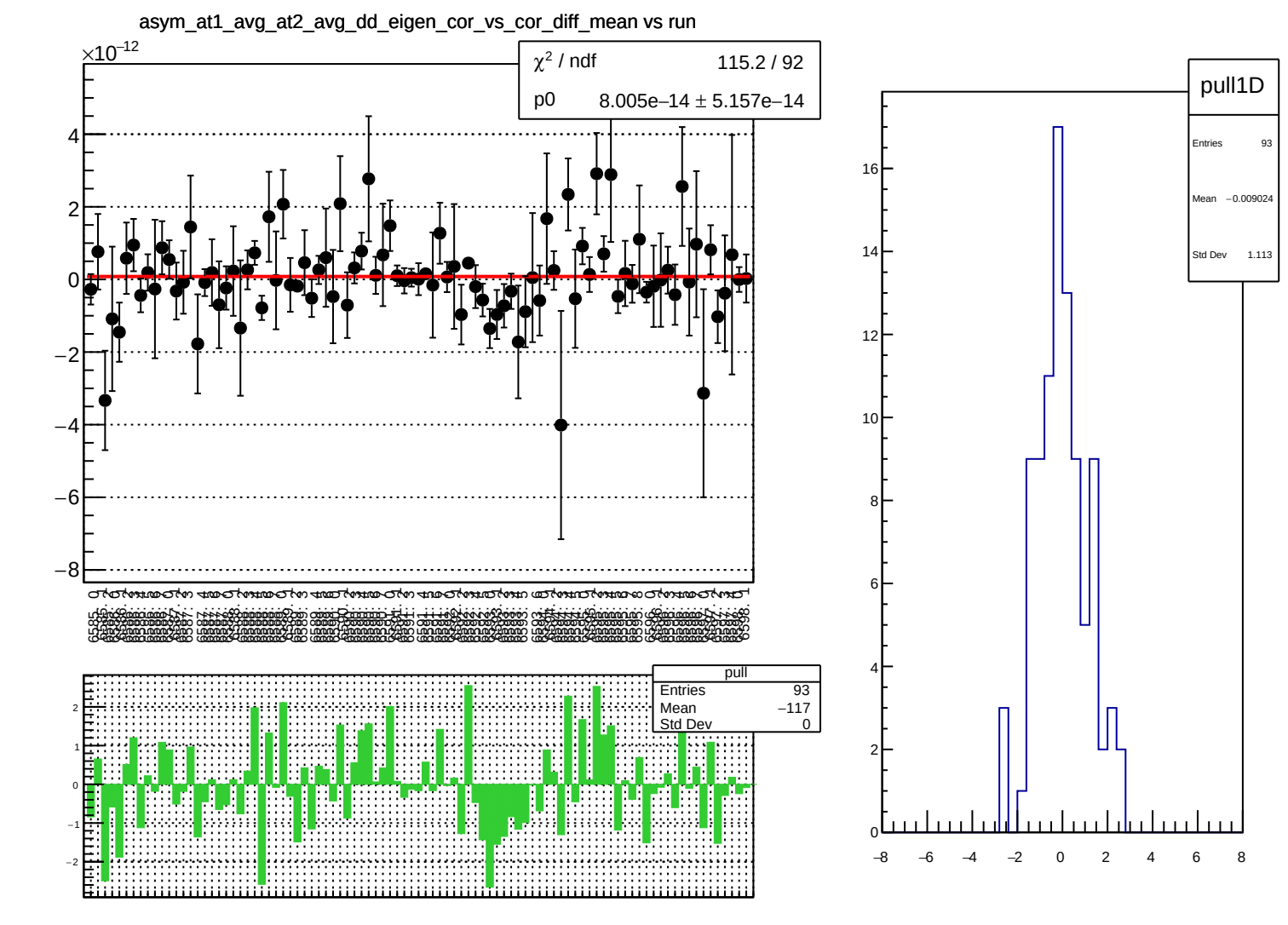

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.68
Std Dev 320.3
pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

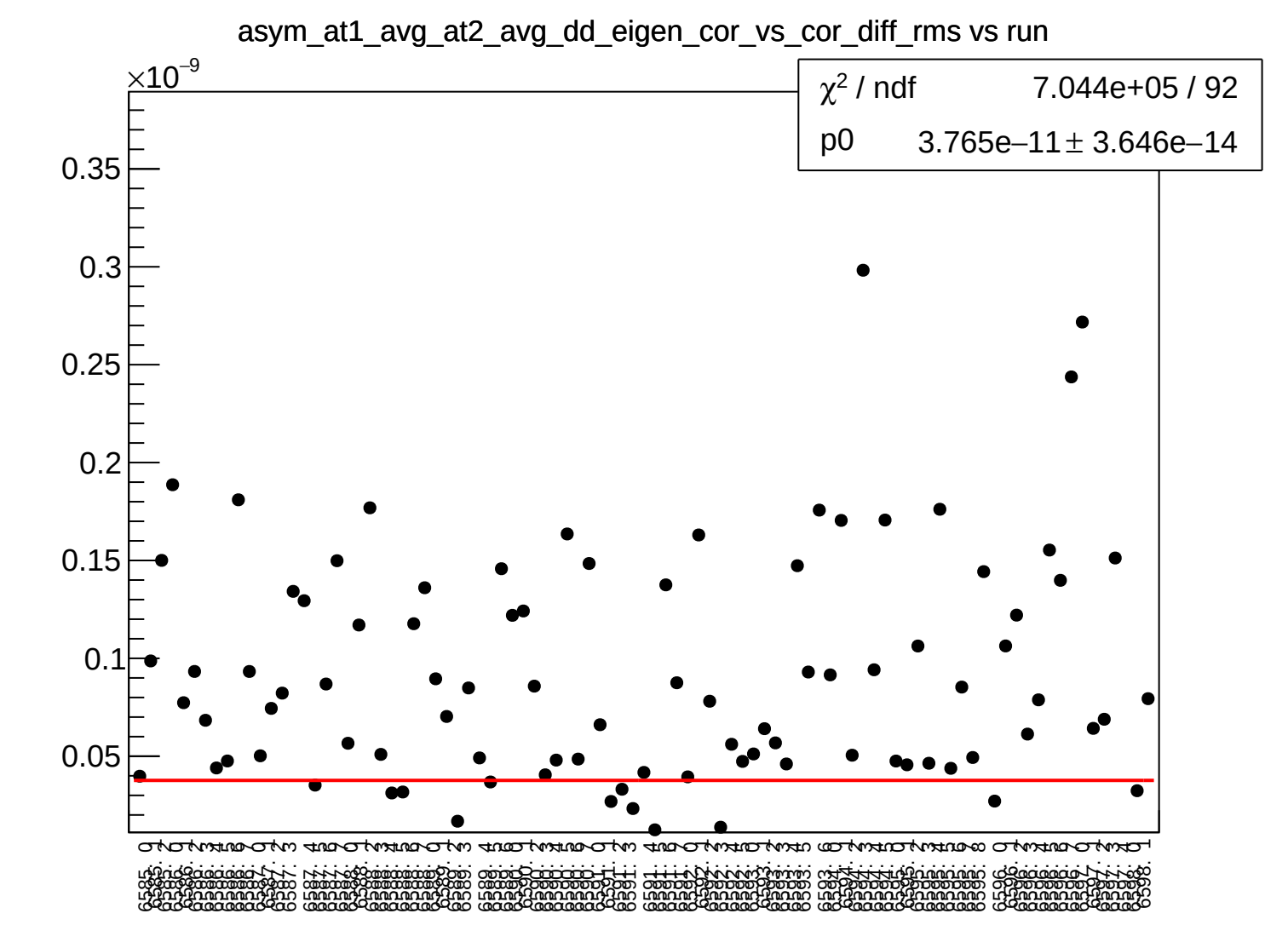

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

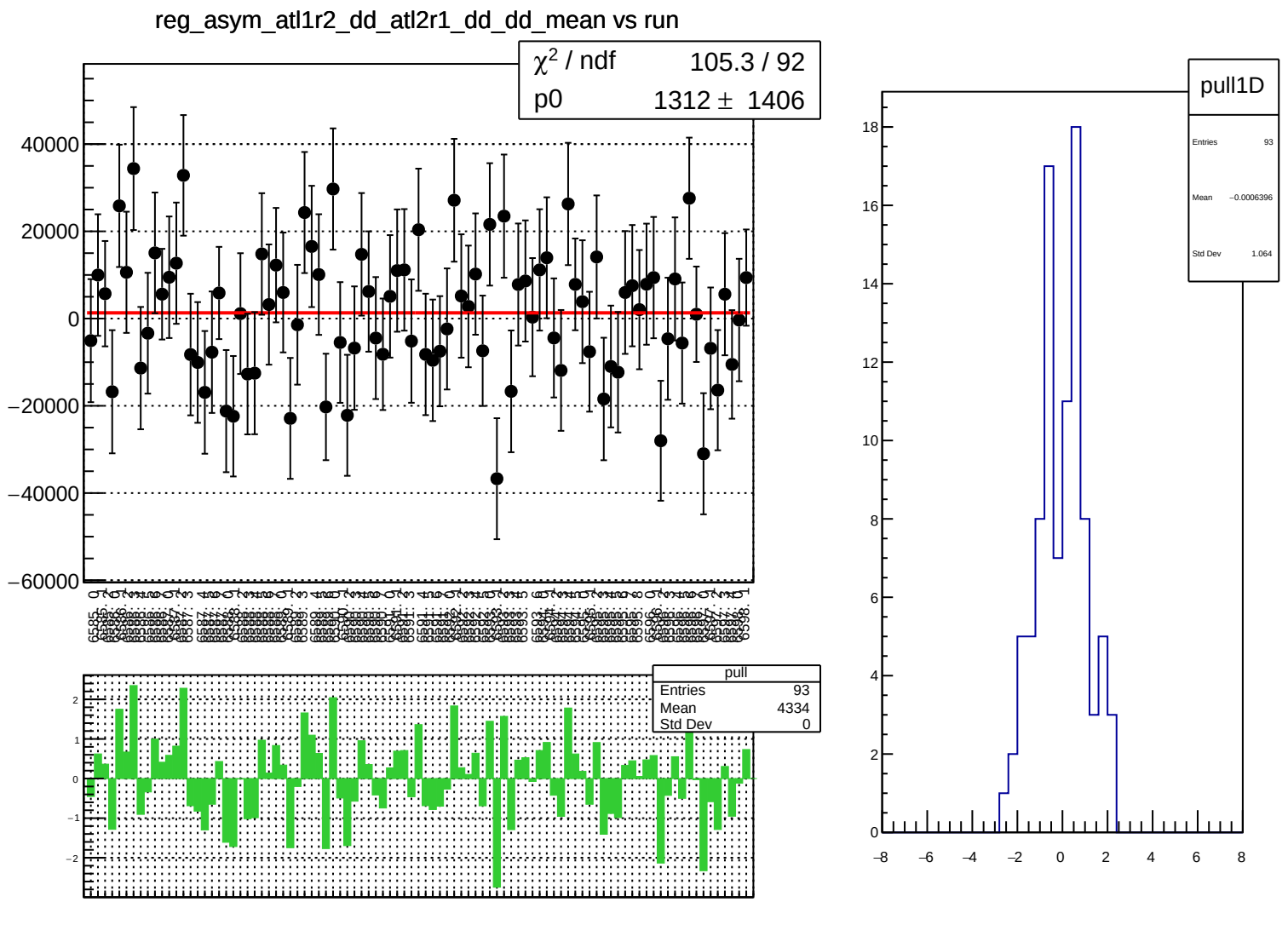

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.68
Std Dev 320.3

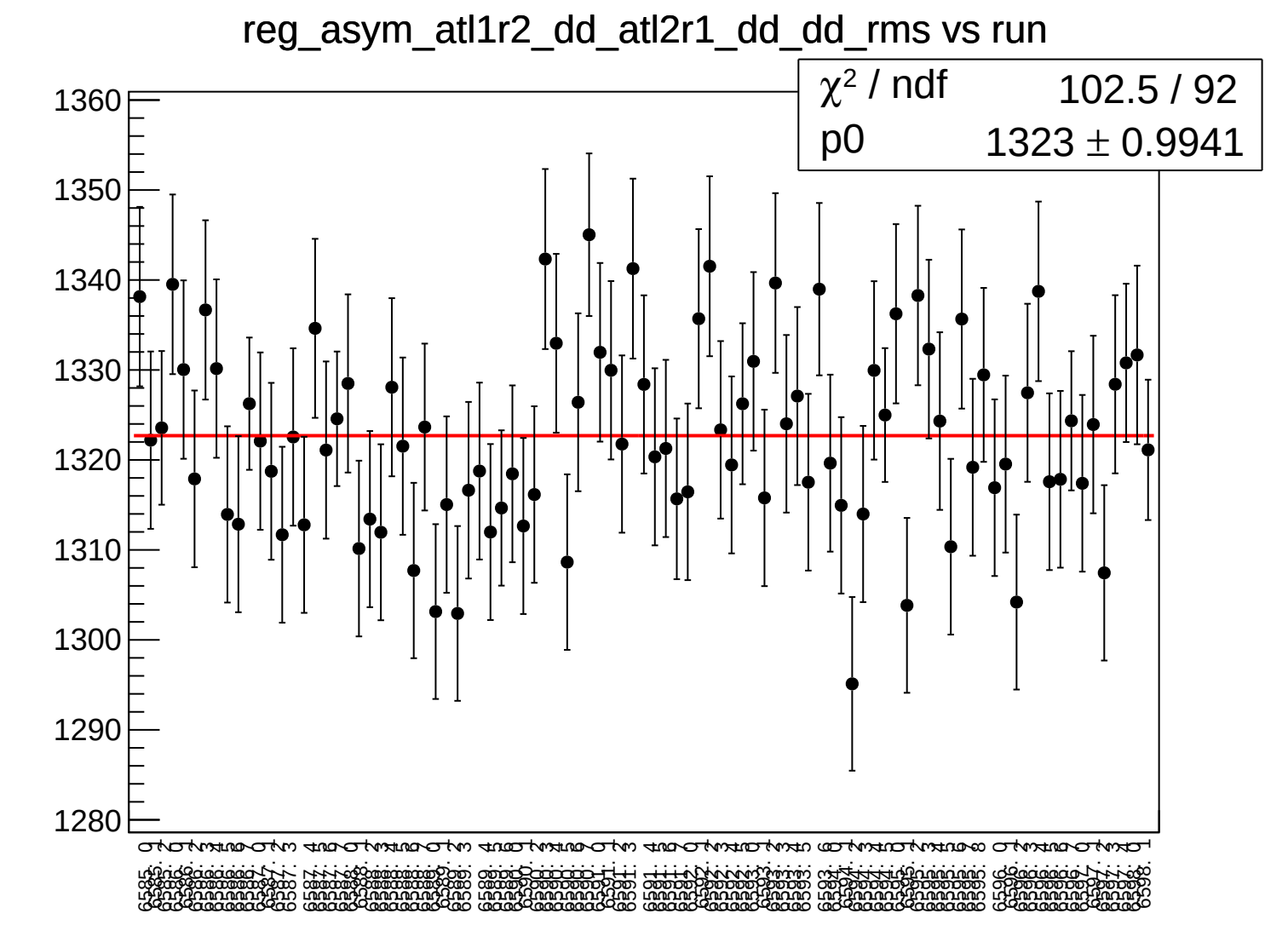

pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

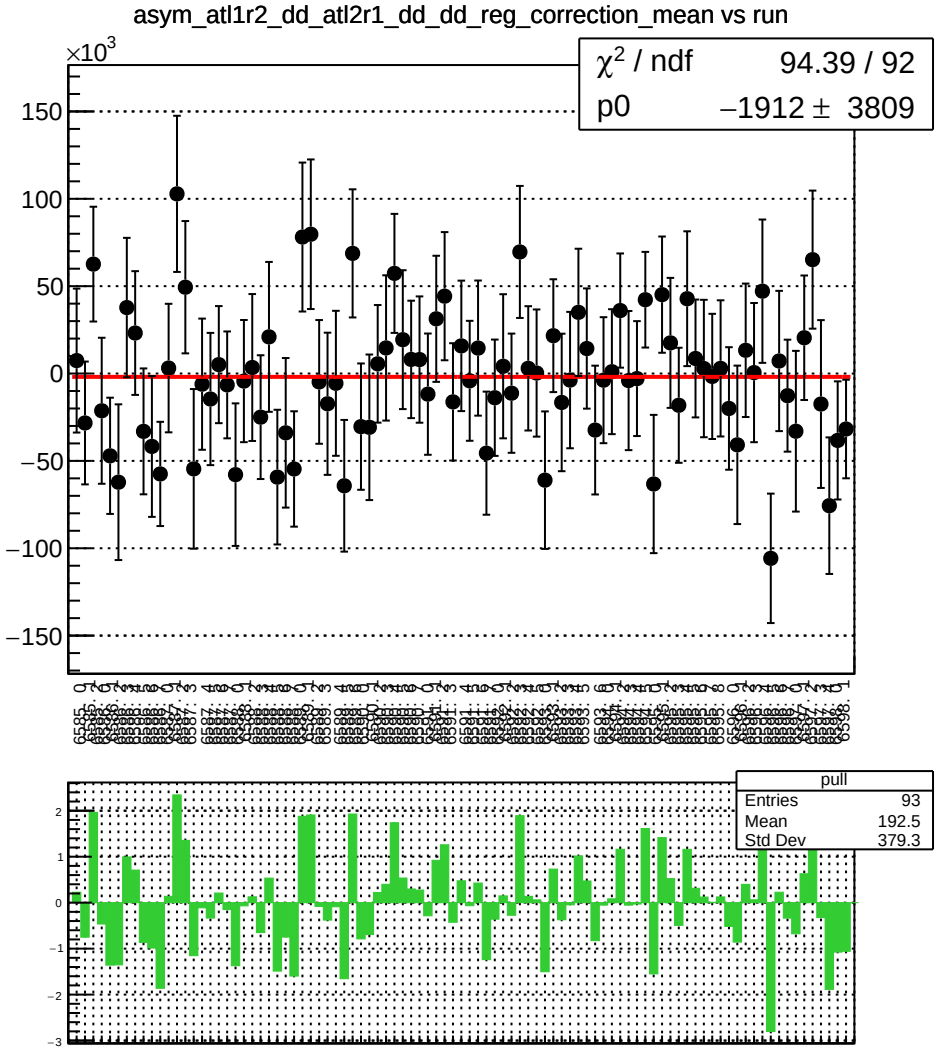

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

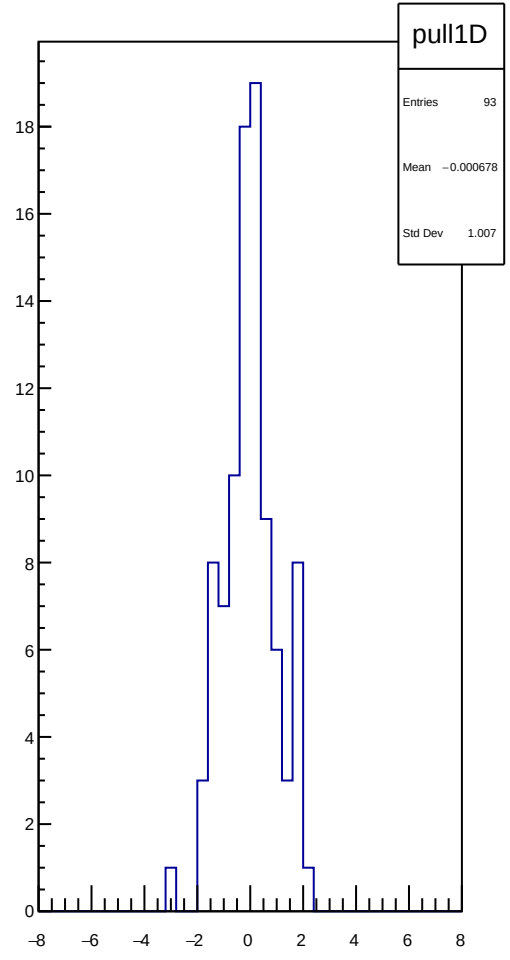

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 115.2 / 92
p0 8.005e−14 ± 5.157e−14
pull
Entries 93
Mean −117
Std Dev 0
pull1D
Entries 93
Mean −0.009024
Std Dev 1.113

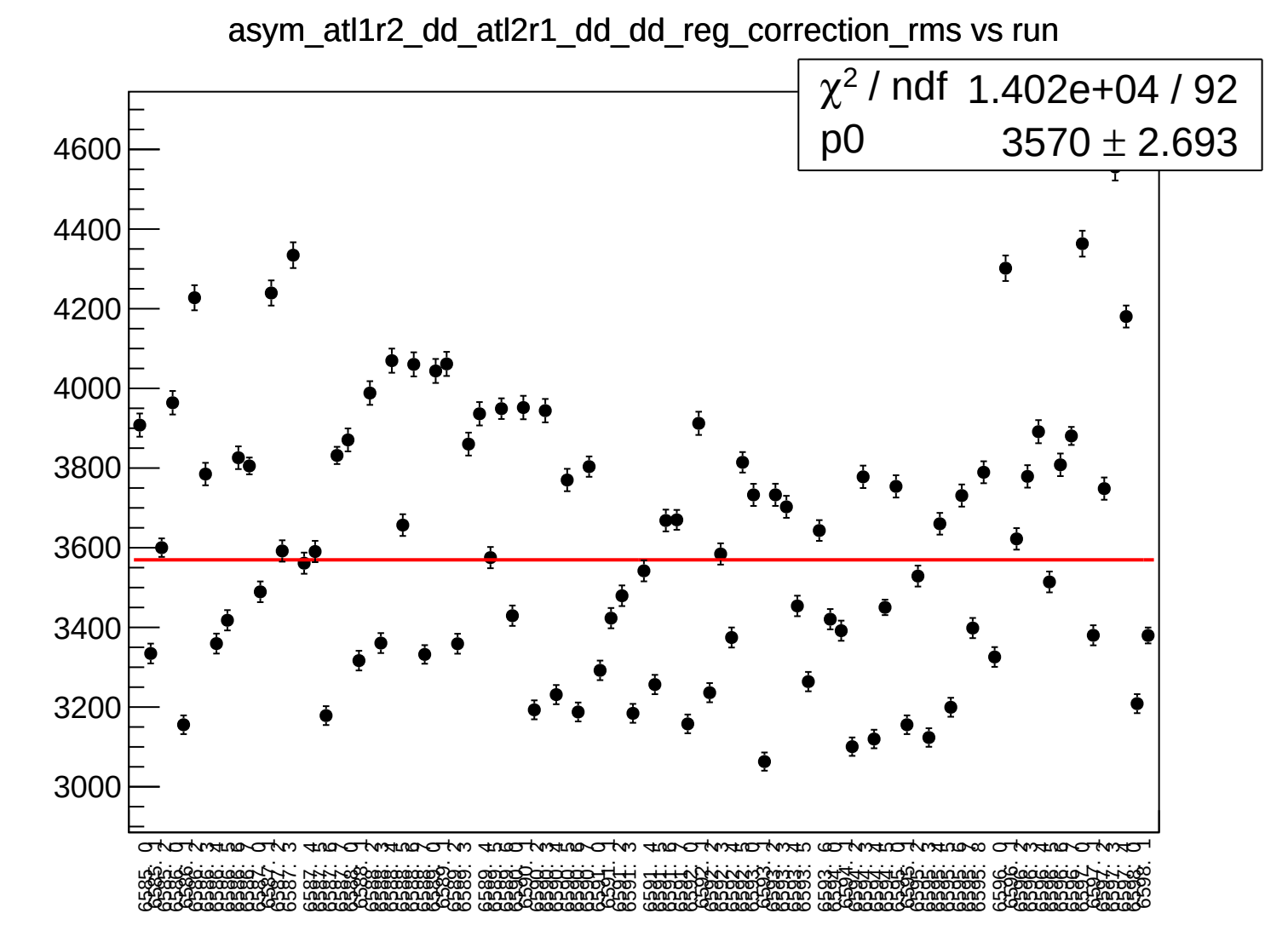

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.044e+05 / 92
p0 3.765e−11 ± 3.646e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

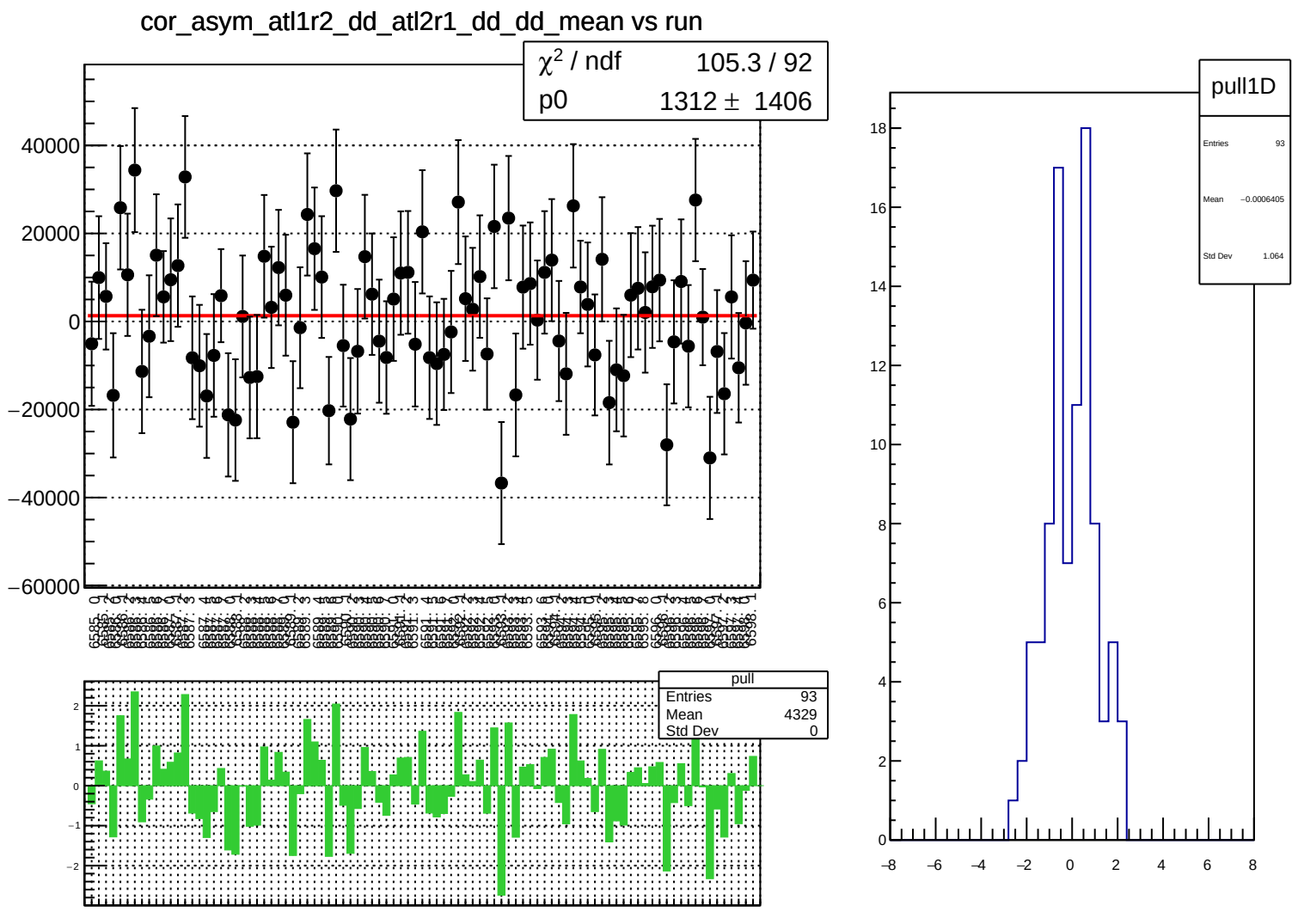

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 105.3 / 92
p0 1312 ± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 4334
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0006396
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

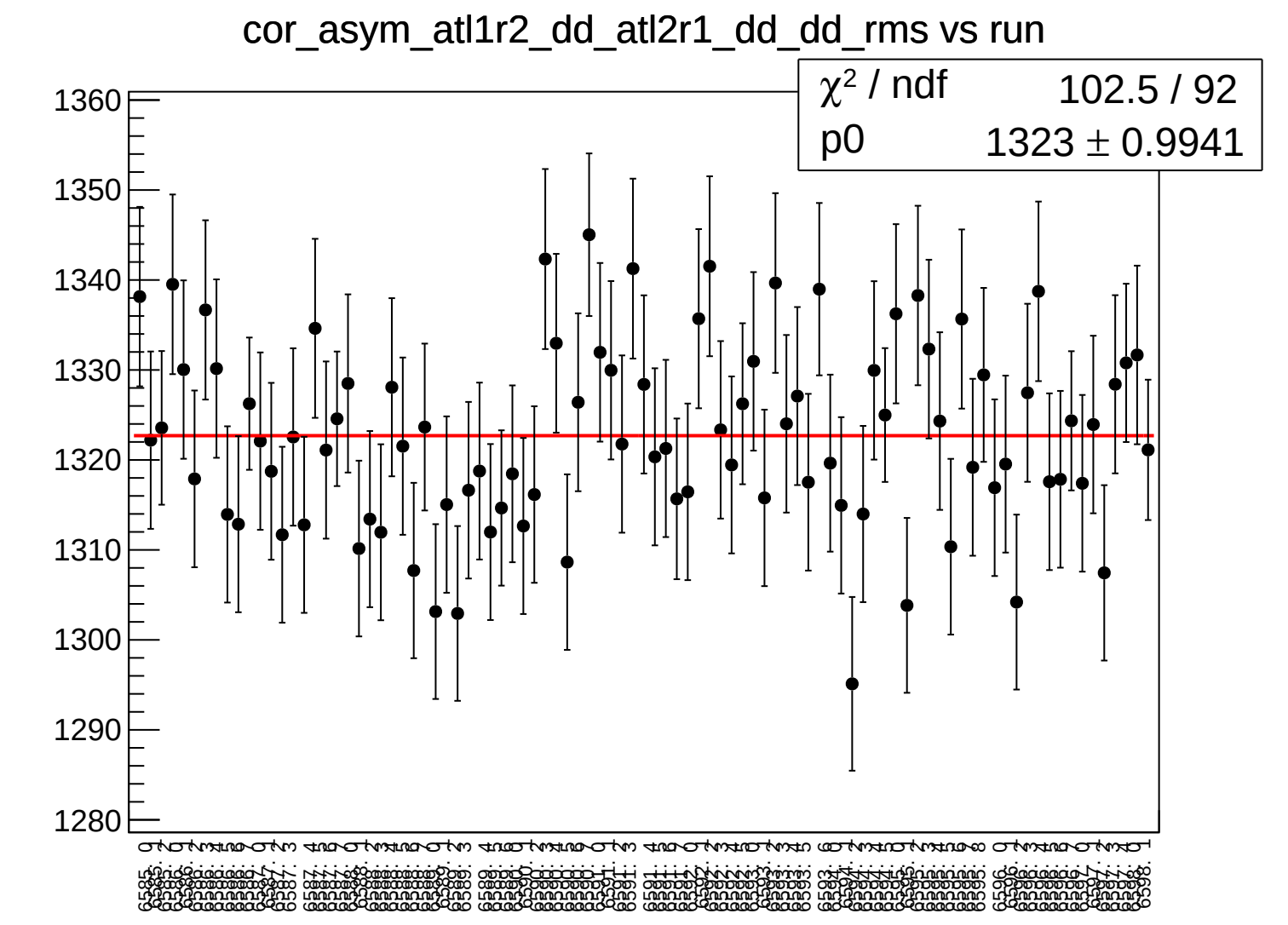

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 102.5 / 92
p0 1323 ± 0.9941
1360
1350
1340
1330
1320
1310
1300
1290
1280

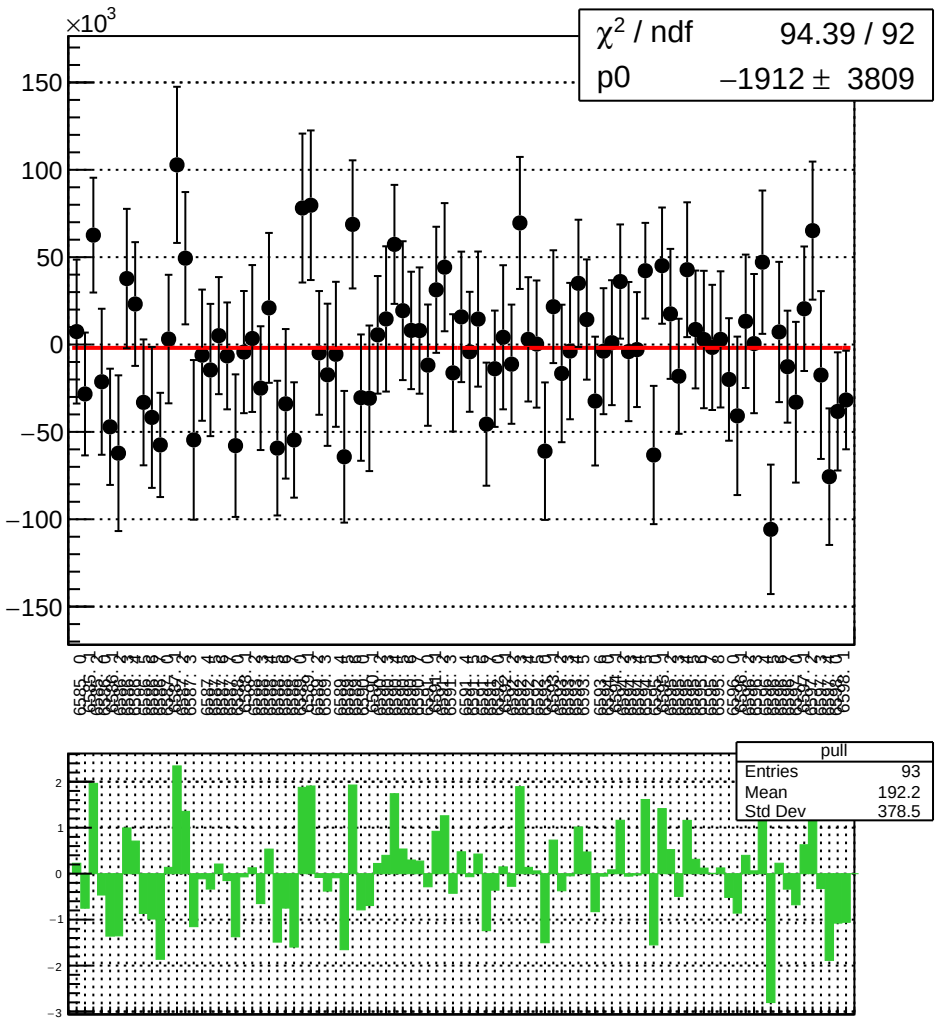

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.39 / 92
p0 −1912 ± 3809
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 192.5
Std Dev 379.3
2
1
0
−1
−2
−3

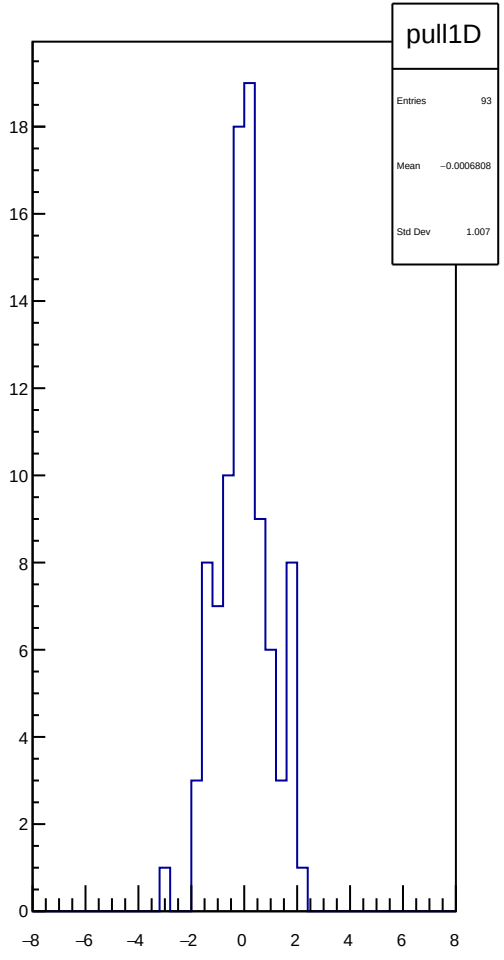

pull1D
Entries 93
Mean −0.000678
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

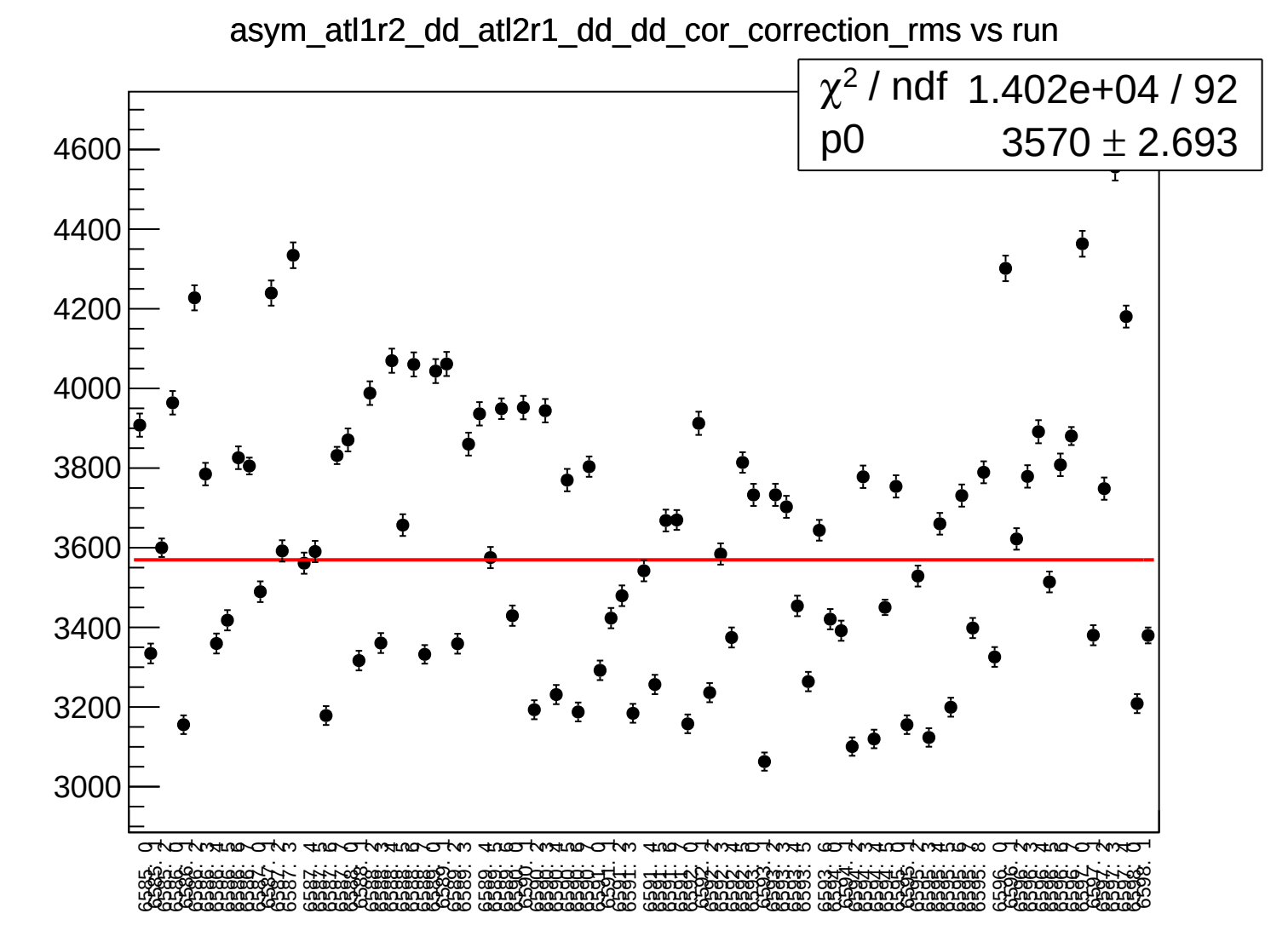

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.402e+04 / 92
p0 3570 ± 2.693
4600
4400
4200
4000
3800
3600
3400
3200
3000

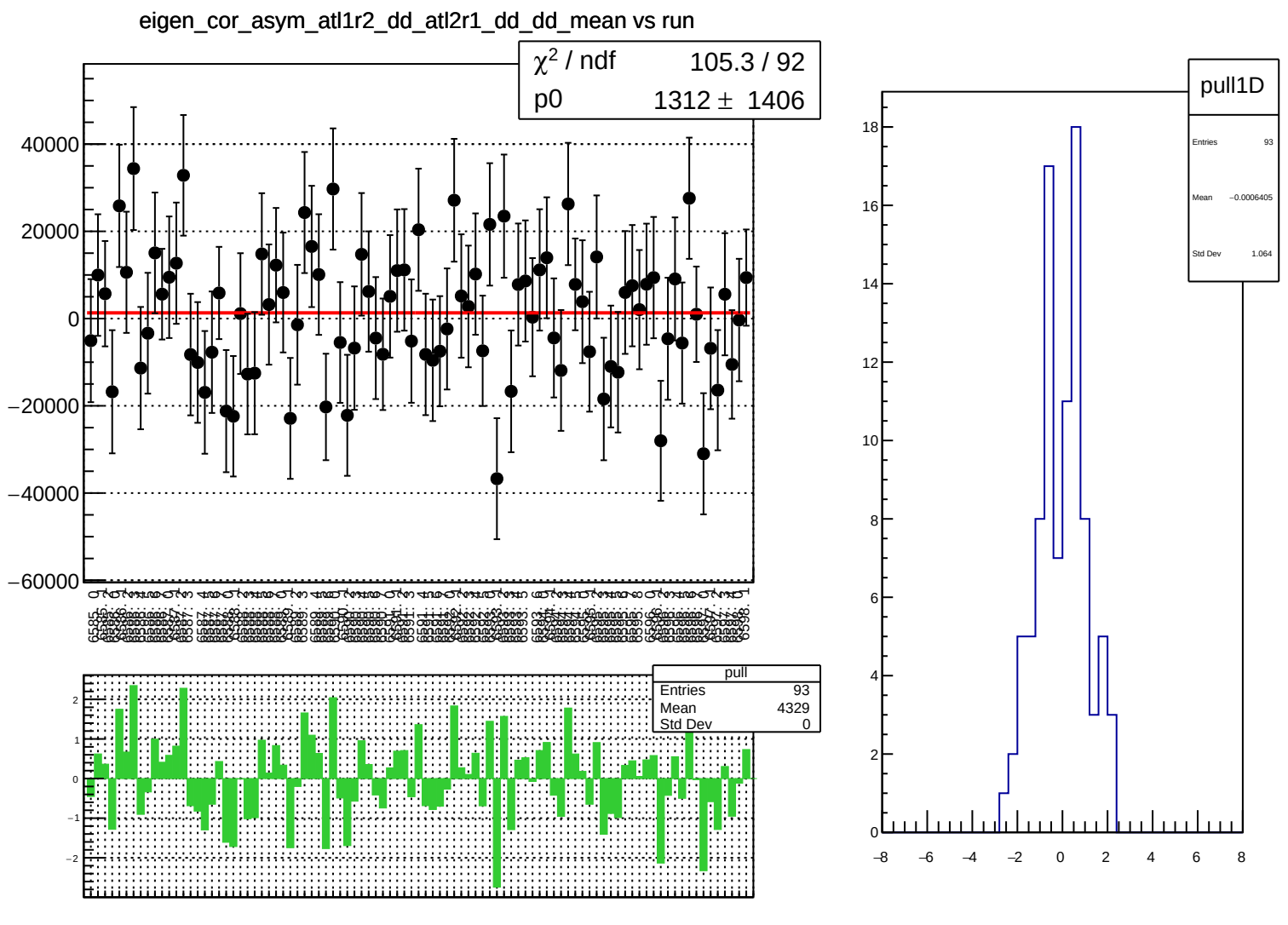

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 105.3 / 92
p0 1312 ± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 4329
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0006405
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

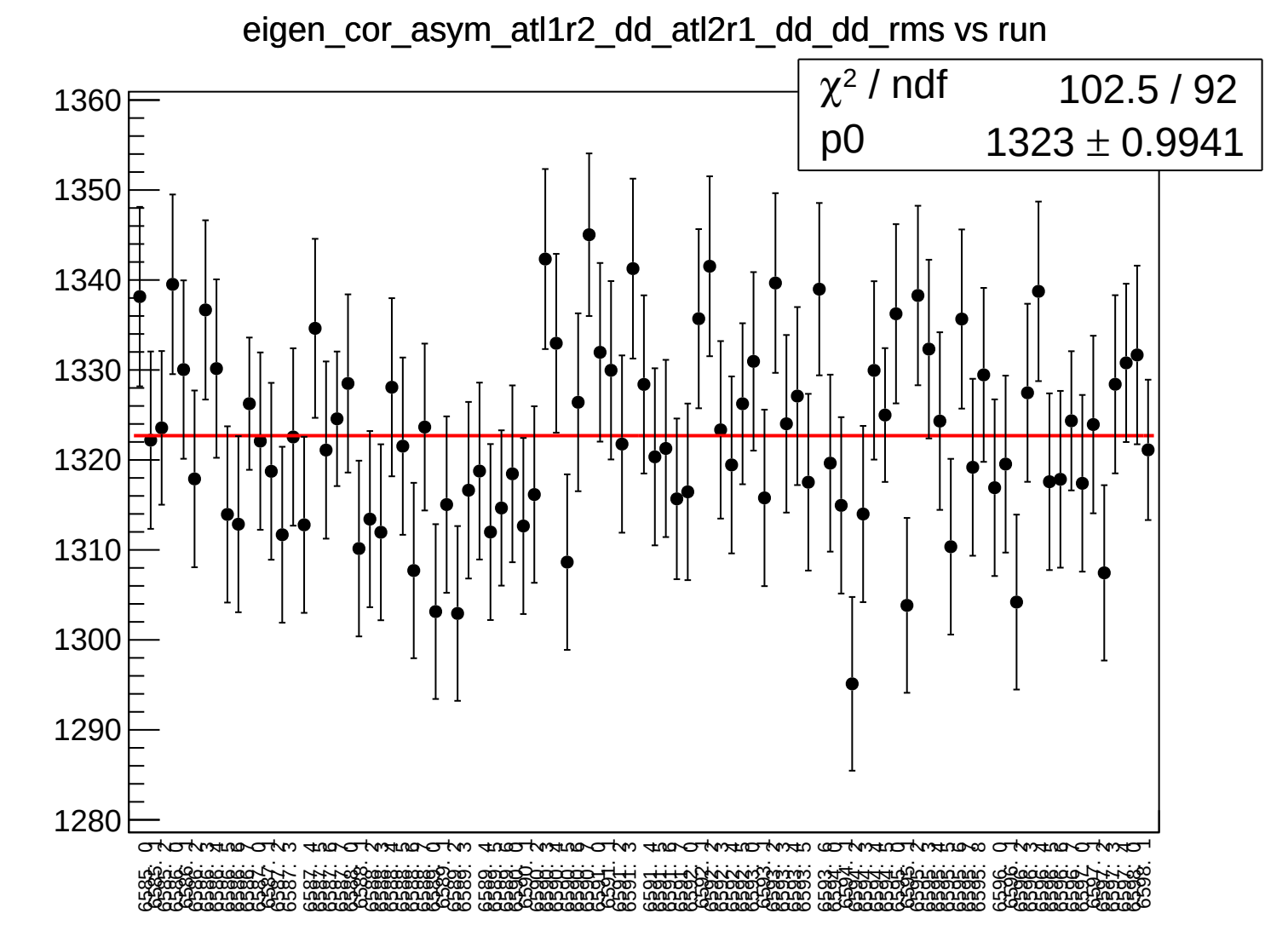

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 102.5 / 92
p0 1323 ± 0.9941
1360
1350
1340
1330
1320
1310
1300
1290
1280

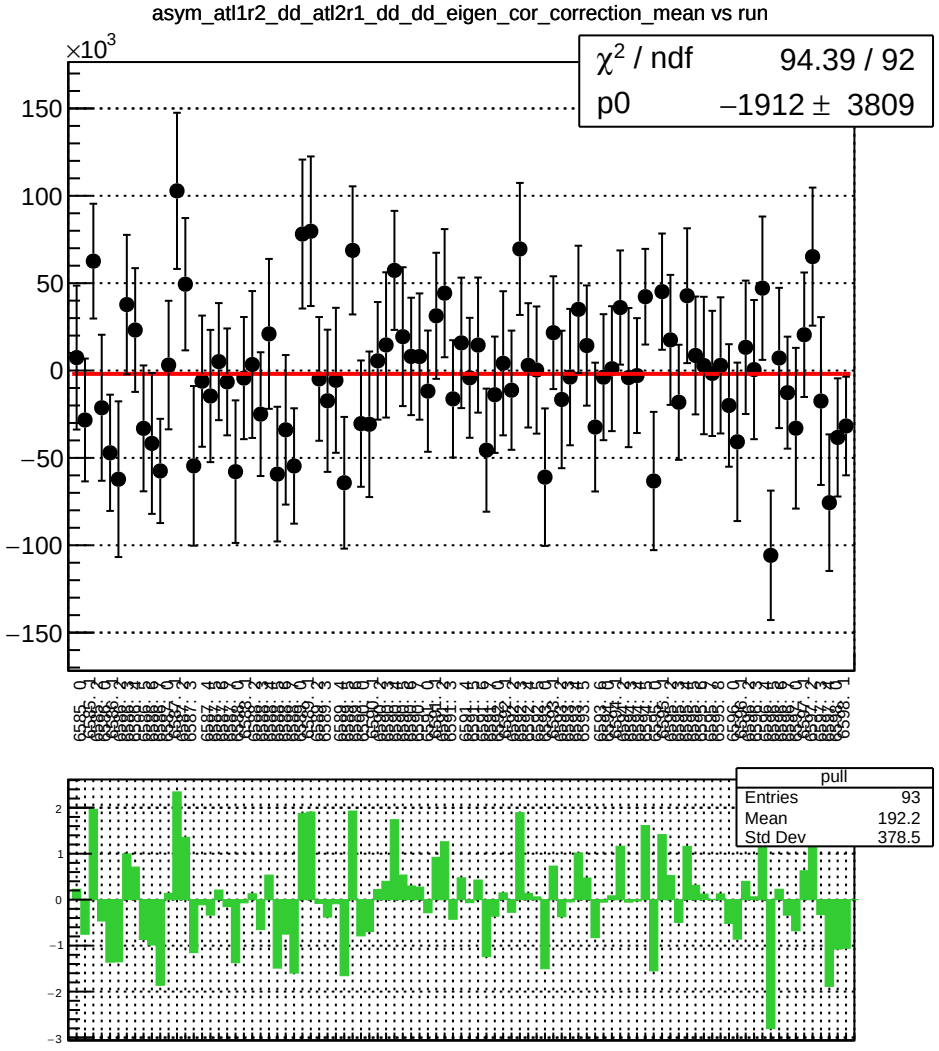

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.39 / 92
p0 −1912 ± 3809
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 192.2
Std Dev 378.5
2
1
0
−1
−2
−3

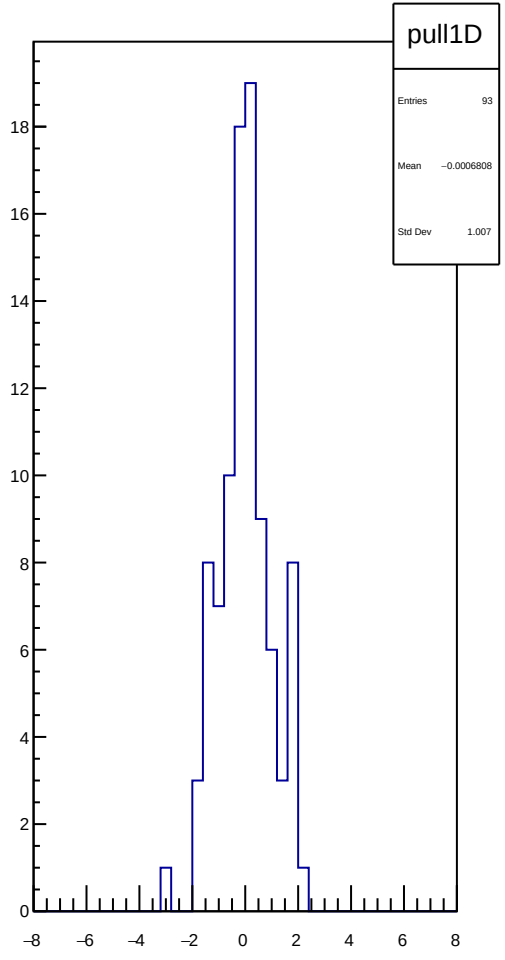

pull1D
Entries 93
Mean −0.0006808
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

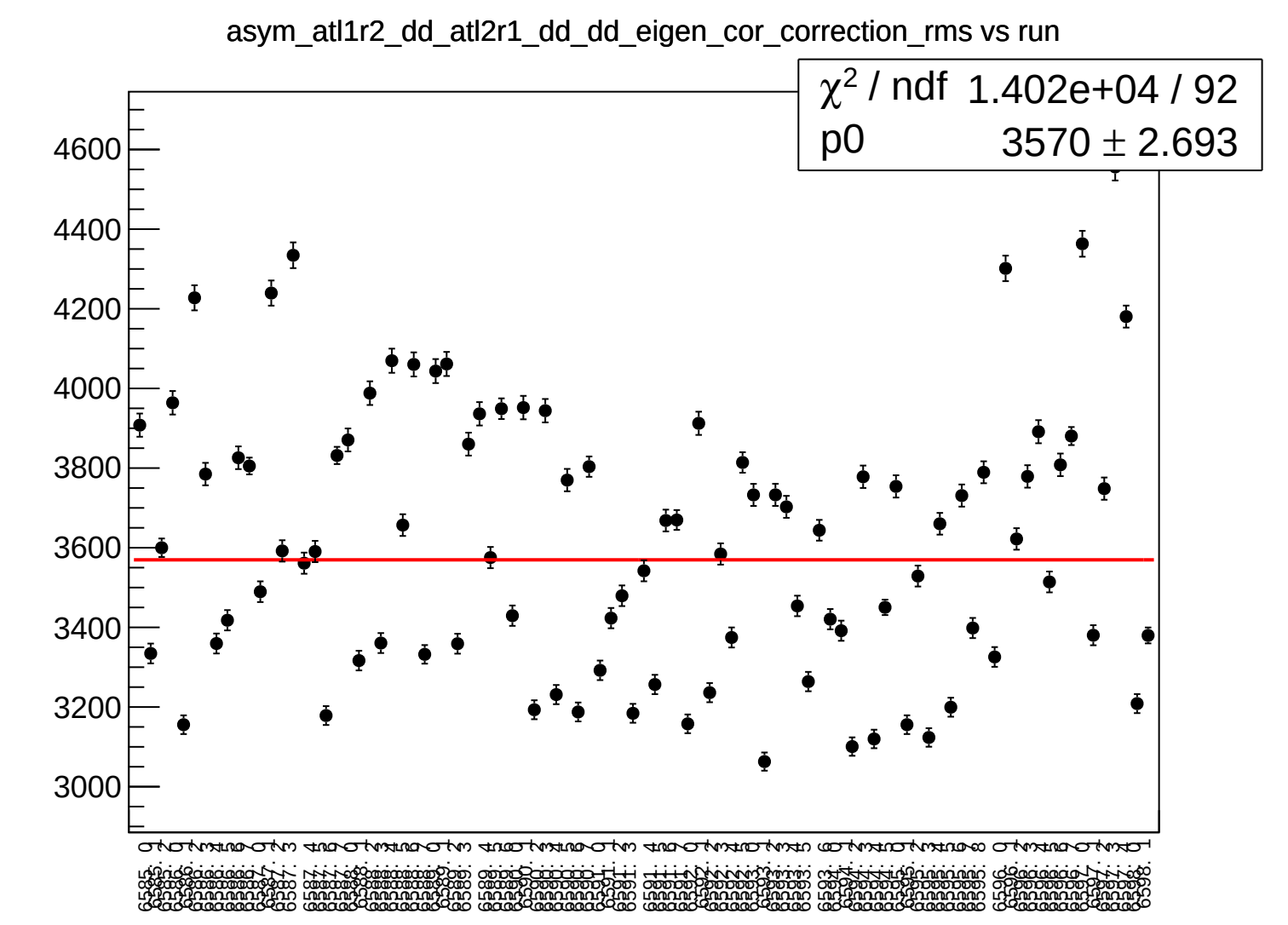

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.402e+04 / 92
p0 3570 ± 2.693
4600
4400
4200
4000
3800
3600
3400
3200
3000

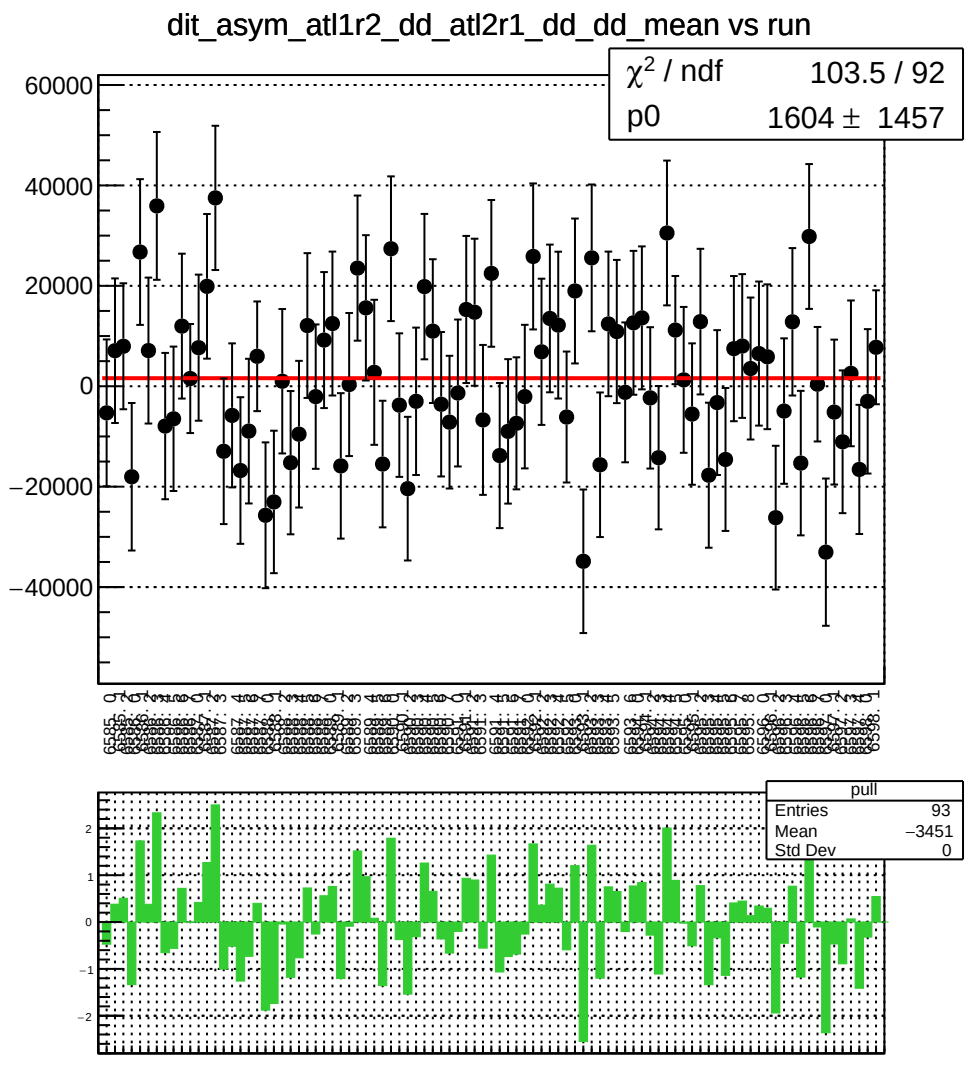

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 105.3 / 92
p0 1312 ± 1406
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 4329
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0006405
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

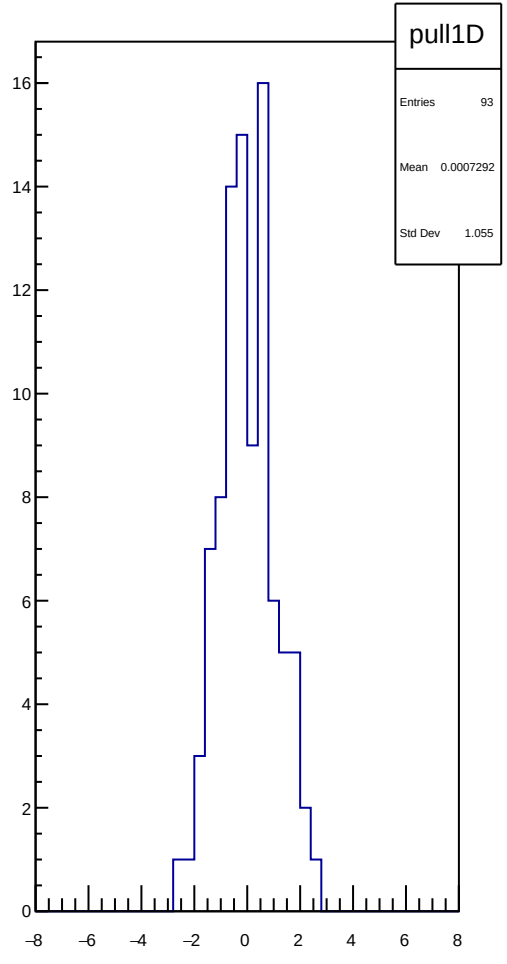

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 102.5 / 92
p0 1323 ± 0.9941
1360
1350
1340
1330
1320
1310
1300
1290
1280

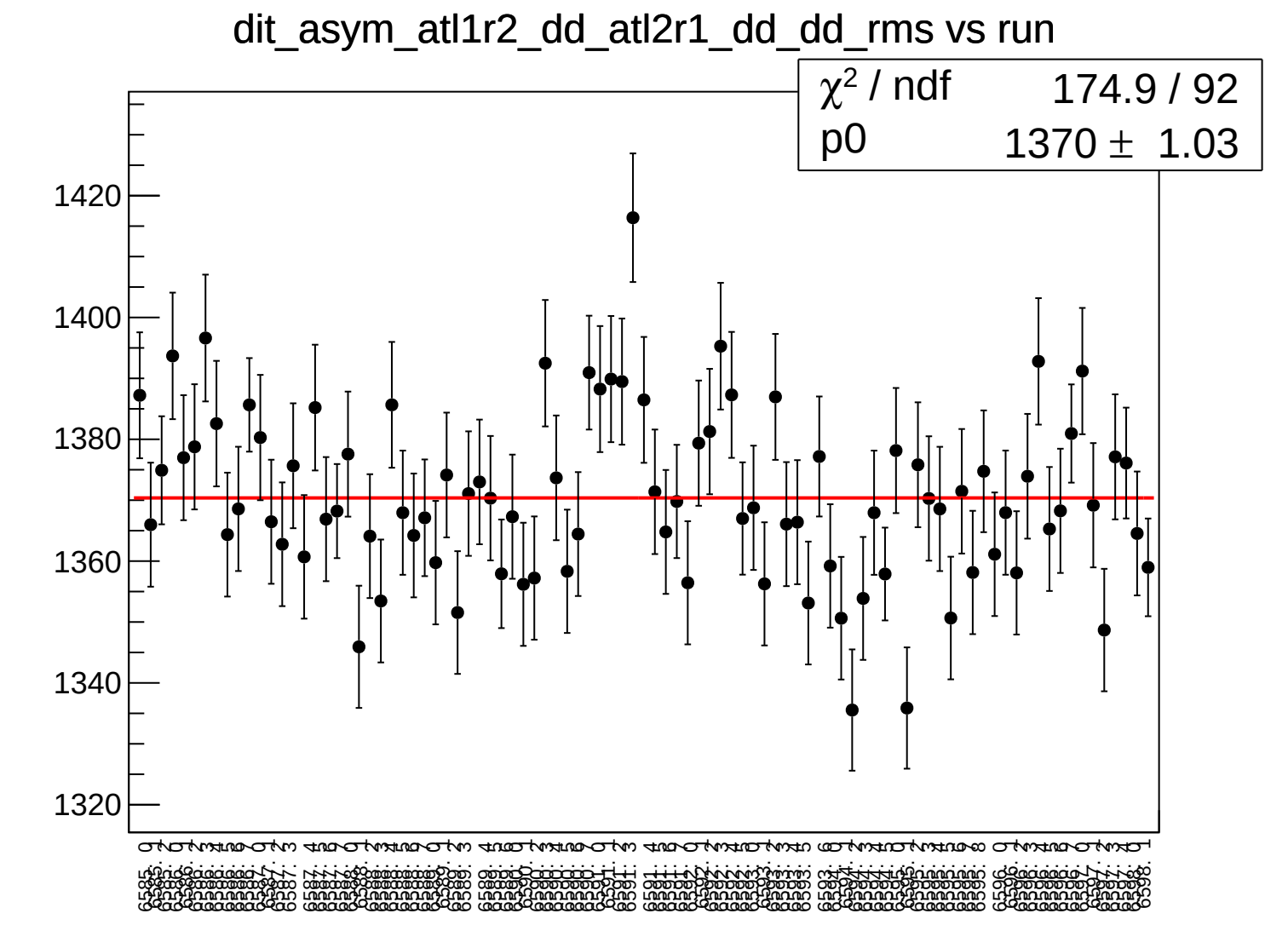

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.39 / 92
p0 −1912 ± 3809
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 192.2
Std Dev 378.5
2
1
0
−1
−2
−3

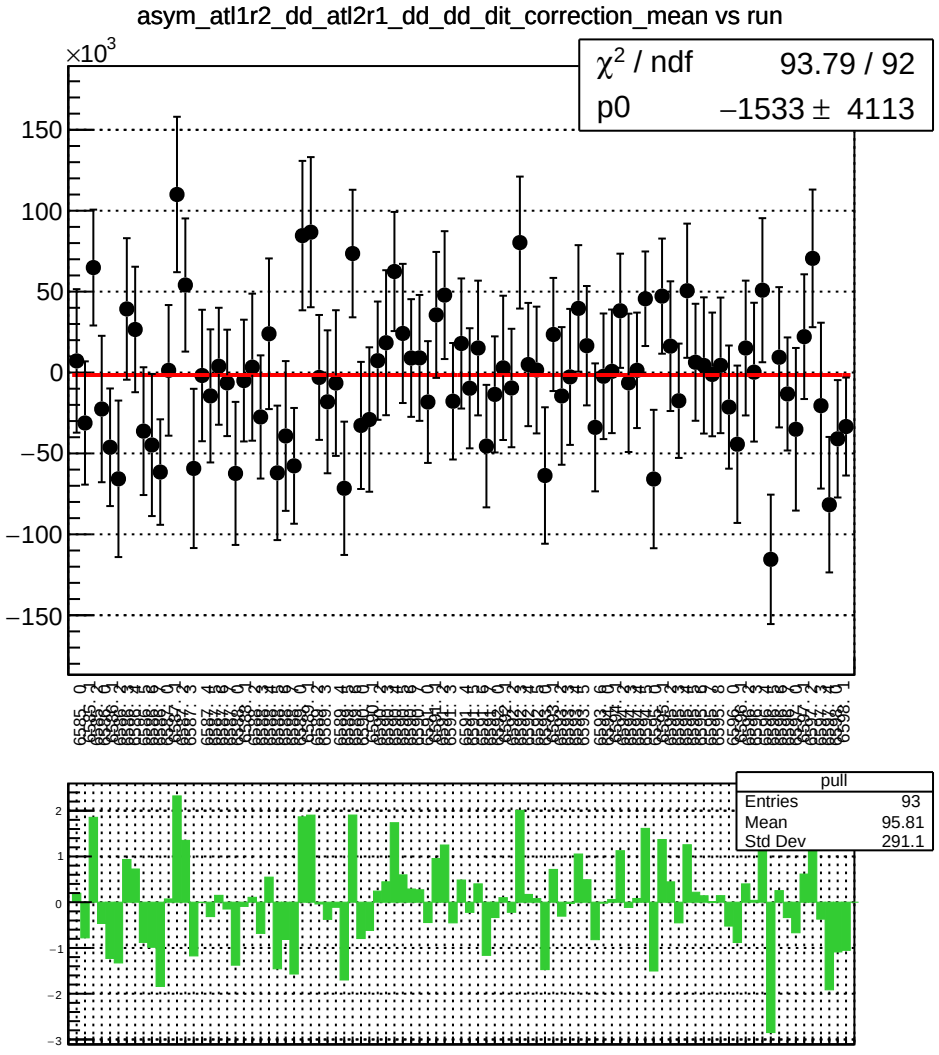

pull1D
Entries 93
Mean −0.0006808
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

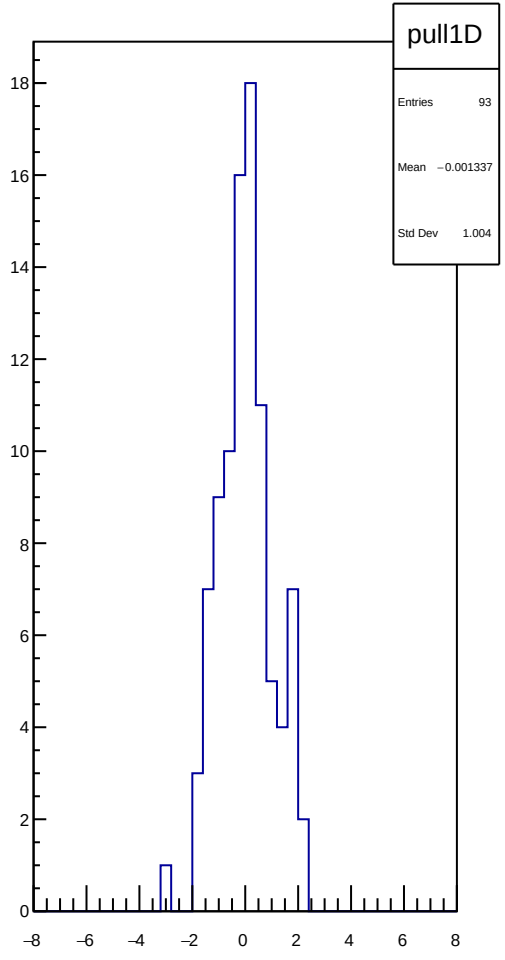

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.402e+04 / 92
p0 3570 ± 2.693
4600
4400
4200
4000
3800
3600
3400
3200
3000

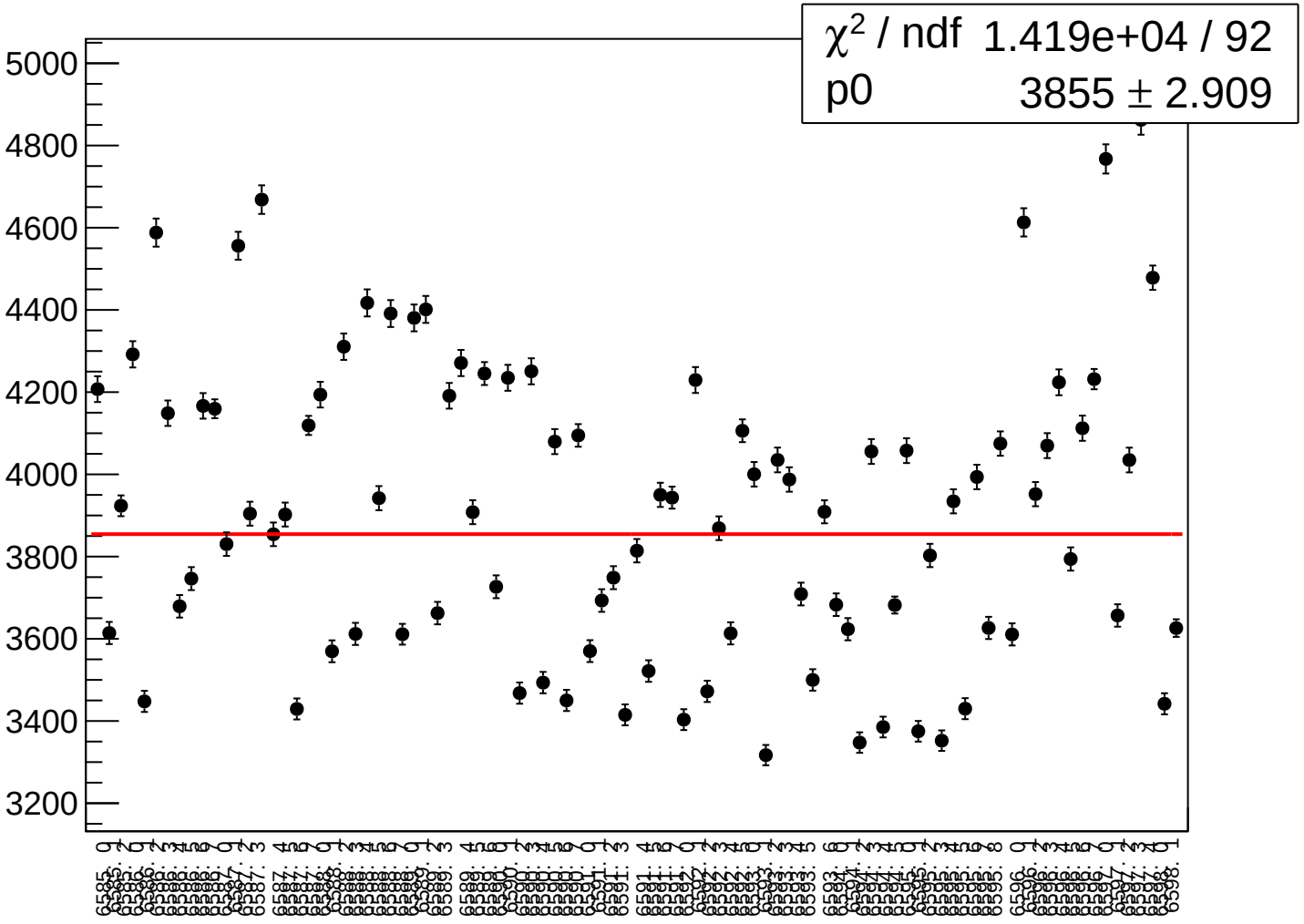

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 103.5 / 92
p0 1604 ± 1457
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −3451
Std Dev 0
2
1
0
−1
−2

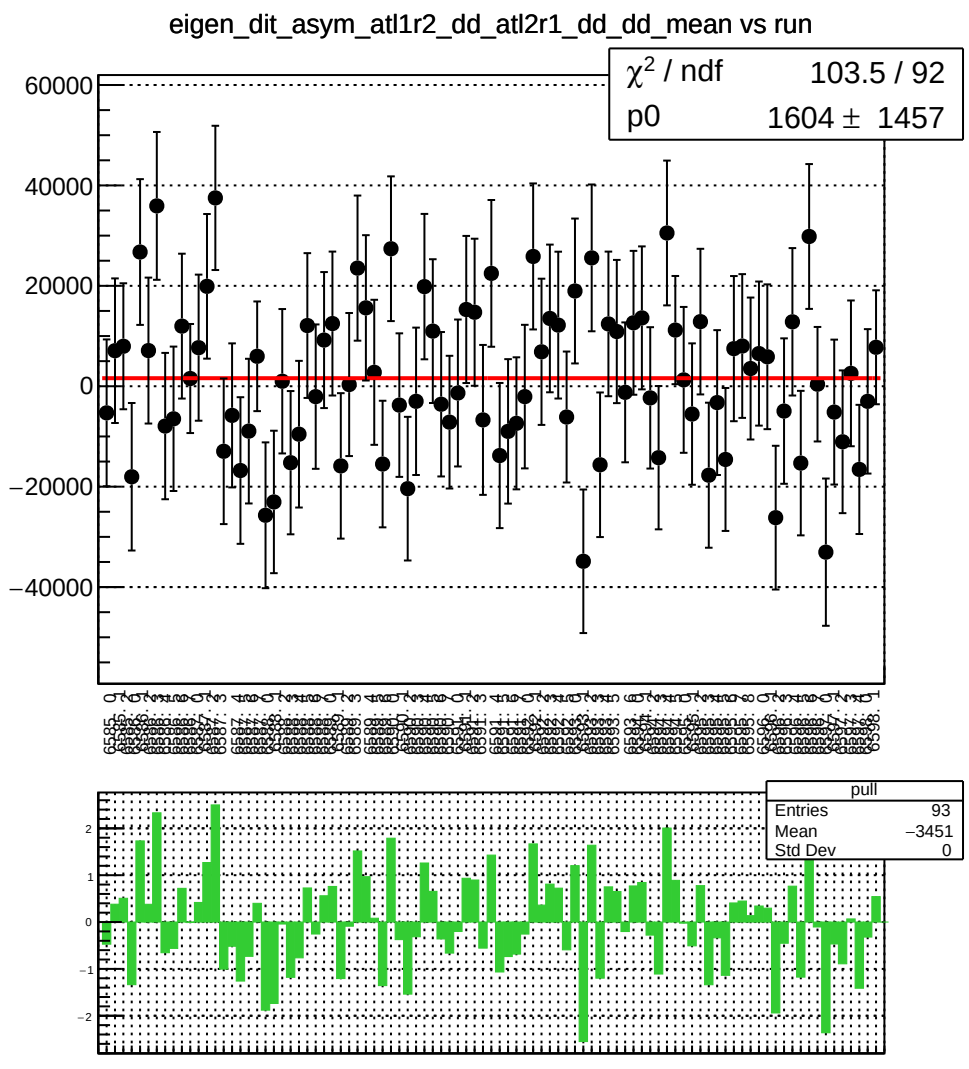

pull1D
Entries 93
Mean 0.0007292
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

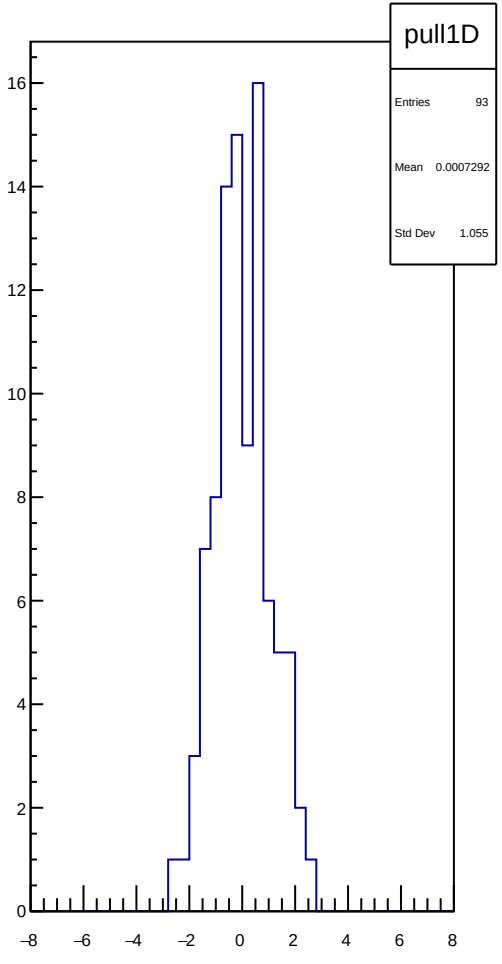

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 174.9 / 92
p0 1370 ± 1.03
1420
1400
1380
1360
1340
1320

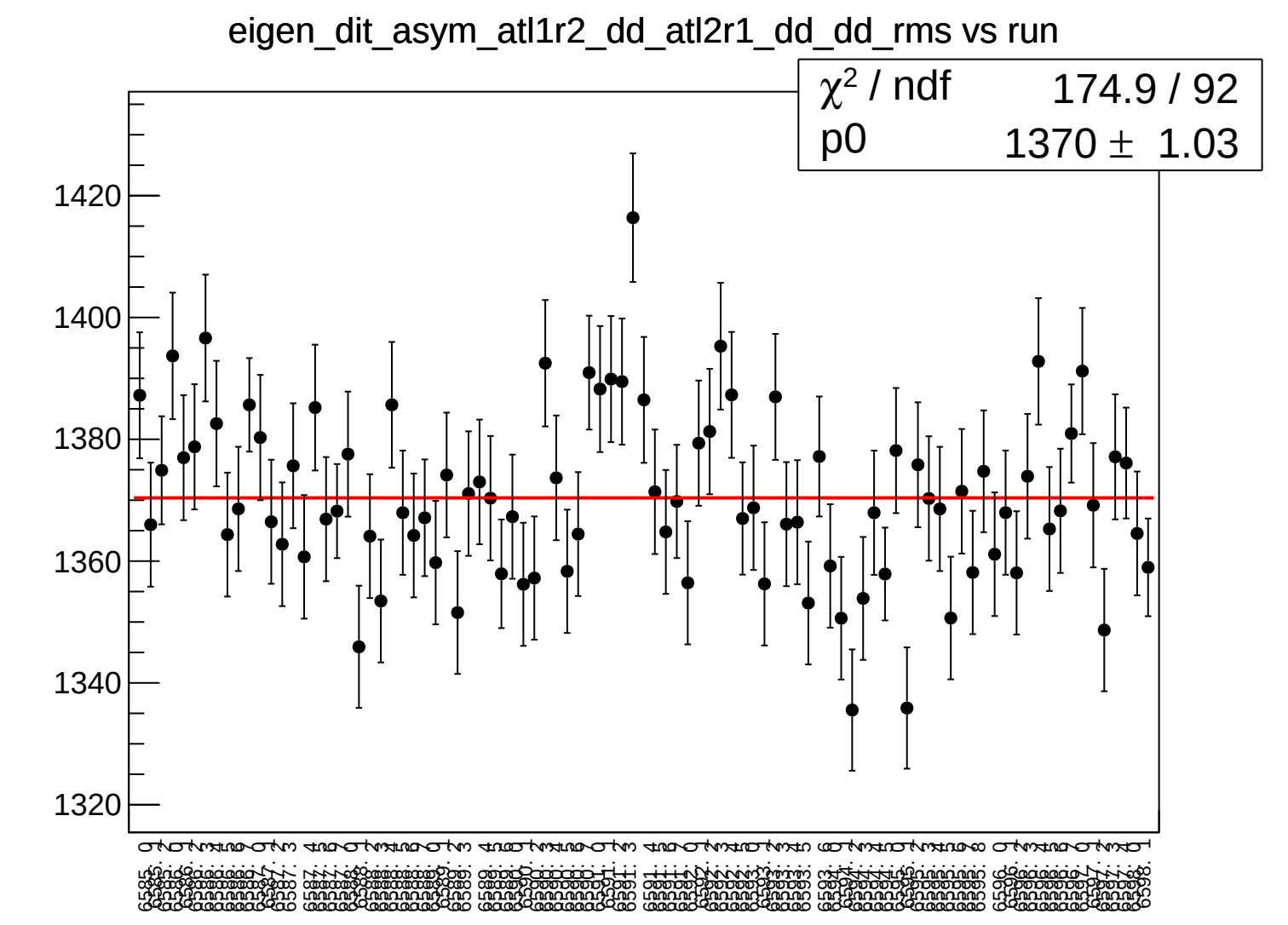

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 93.79 / 92
p0 −1533 ± 4113
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 95.81
Std Dev 291.1
2
1
0
−1
−2
−3

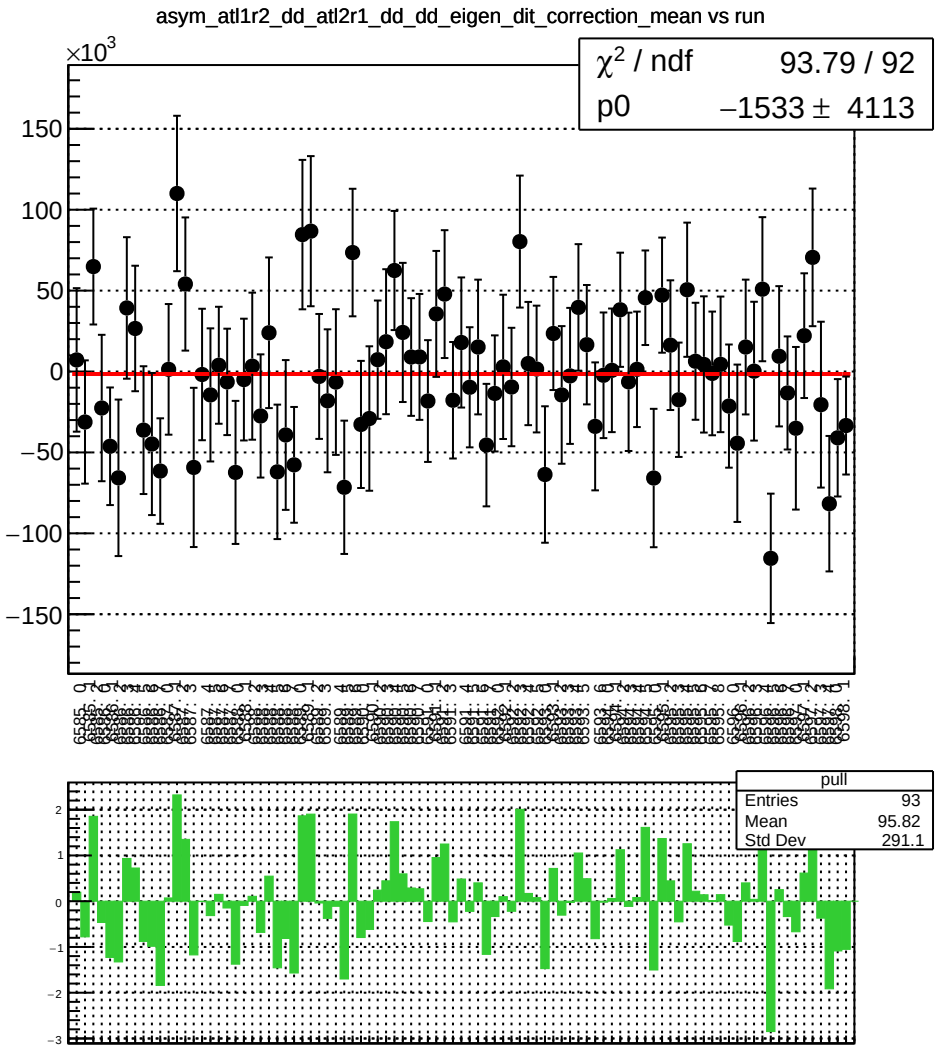

pull1D
Entries 93
Mean −0.001337
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

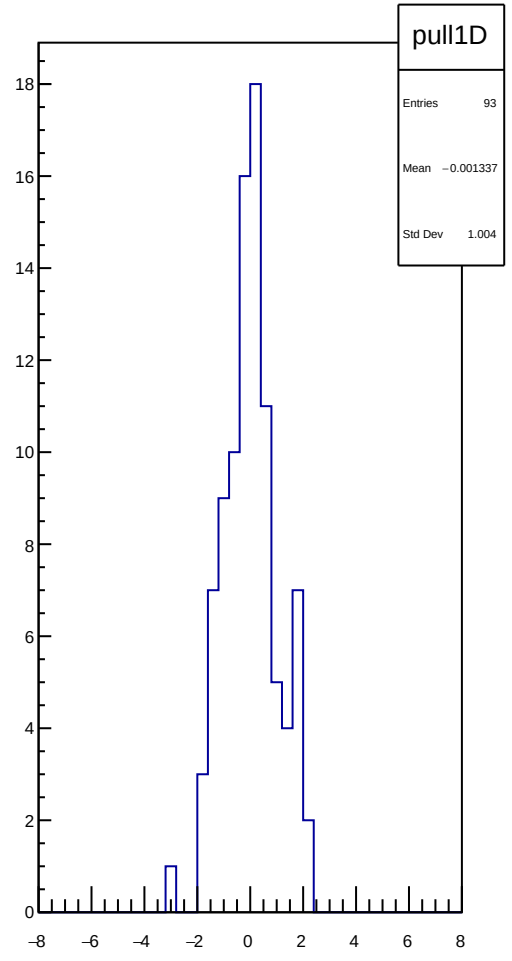

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.419e+04 / 92
p0 3855 ± 2.909
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

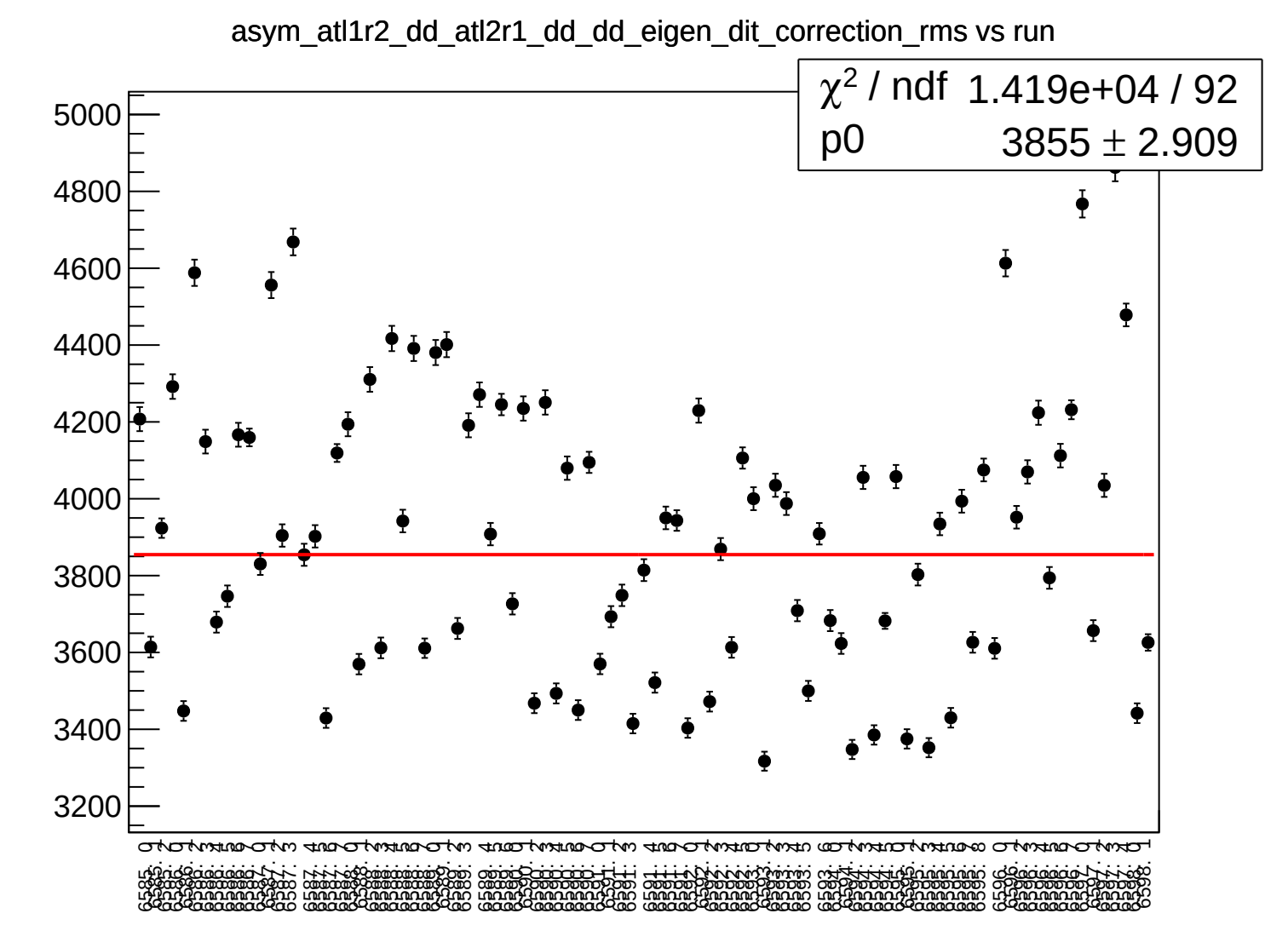

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 103.5 / 92
p0 1604 ± 1457
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −3451
Std Dev 0
2
1
0
−1
−2

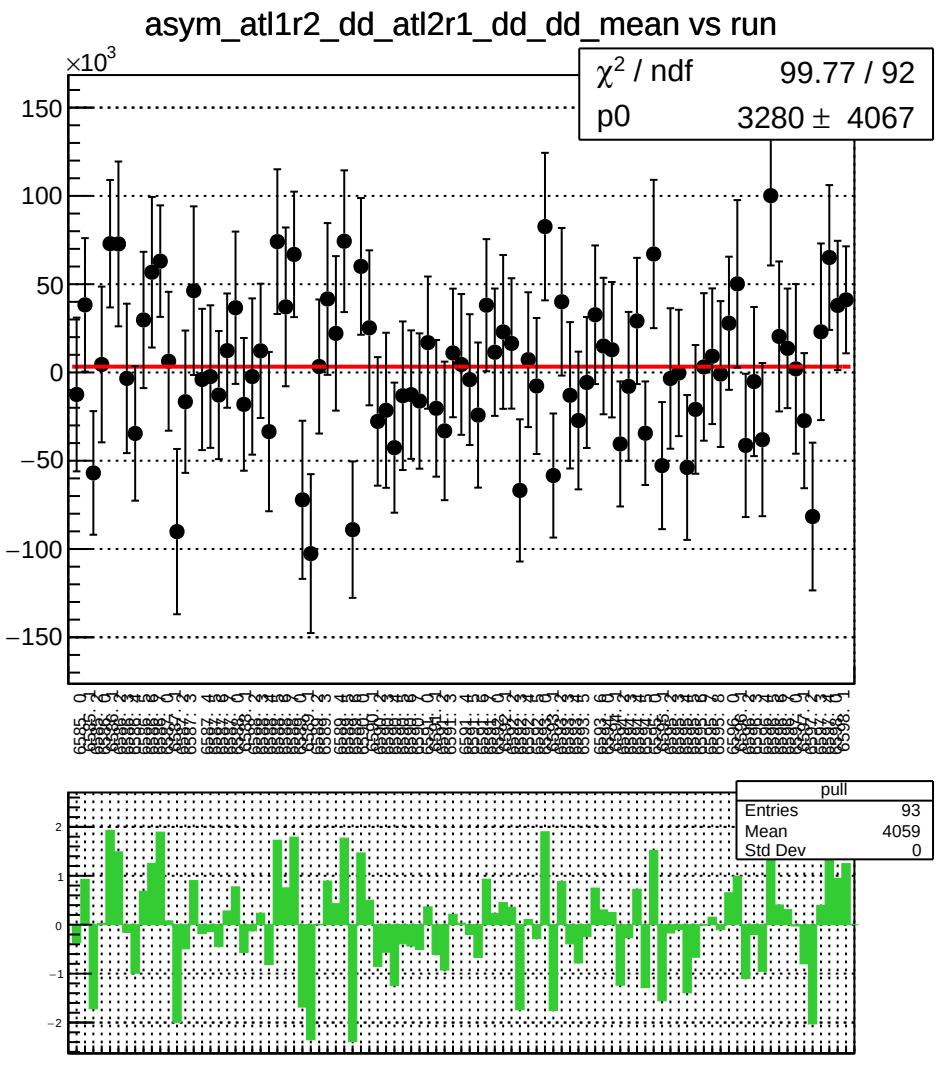

pull1D
Entries 93
Mean 0.0007292
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

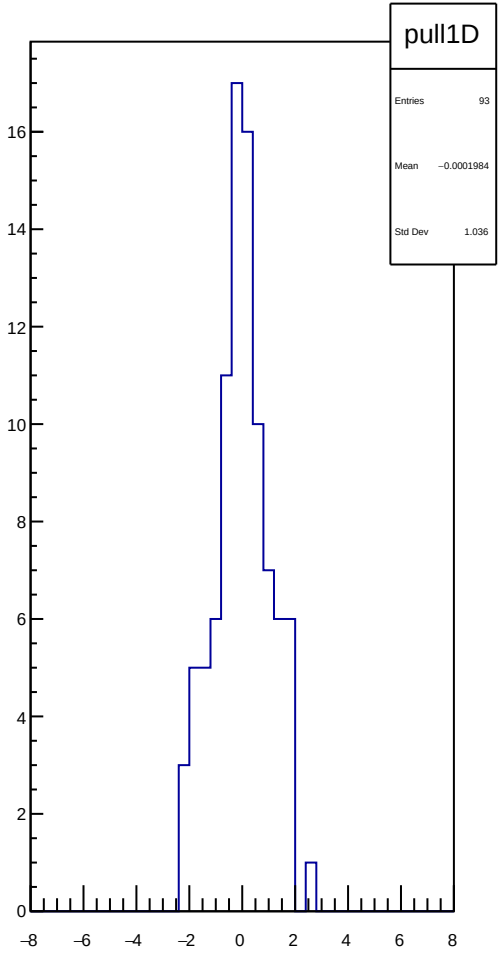

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 174.9 / 92
p0 1370 ± 1.03
1420
1400
1380
1360
1340
1320

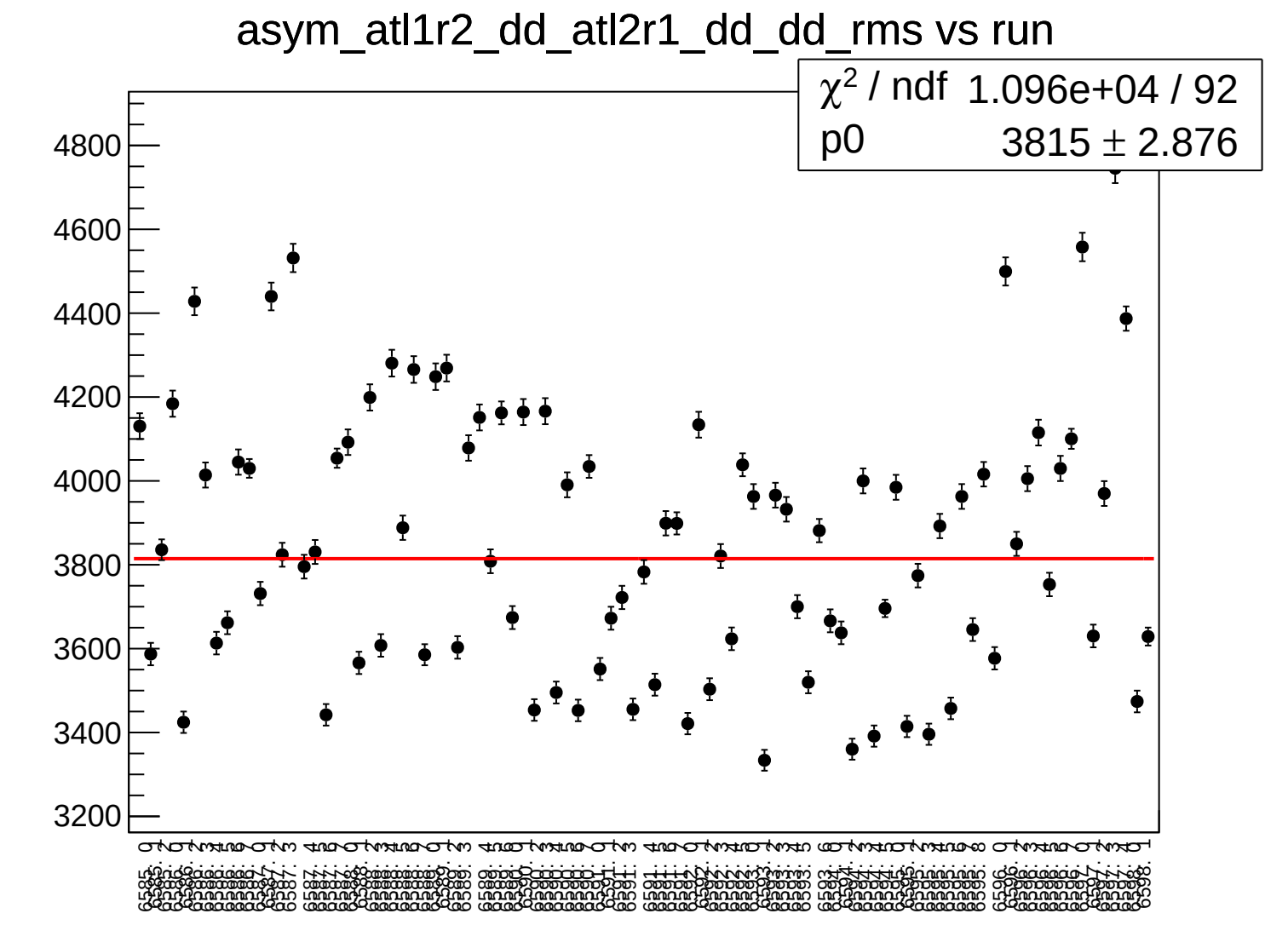

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.79 / 92
p0 −1533 ± 4113
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 95.82
Std Dev 291.1
2
1
0
−1
−2
−3

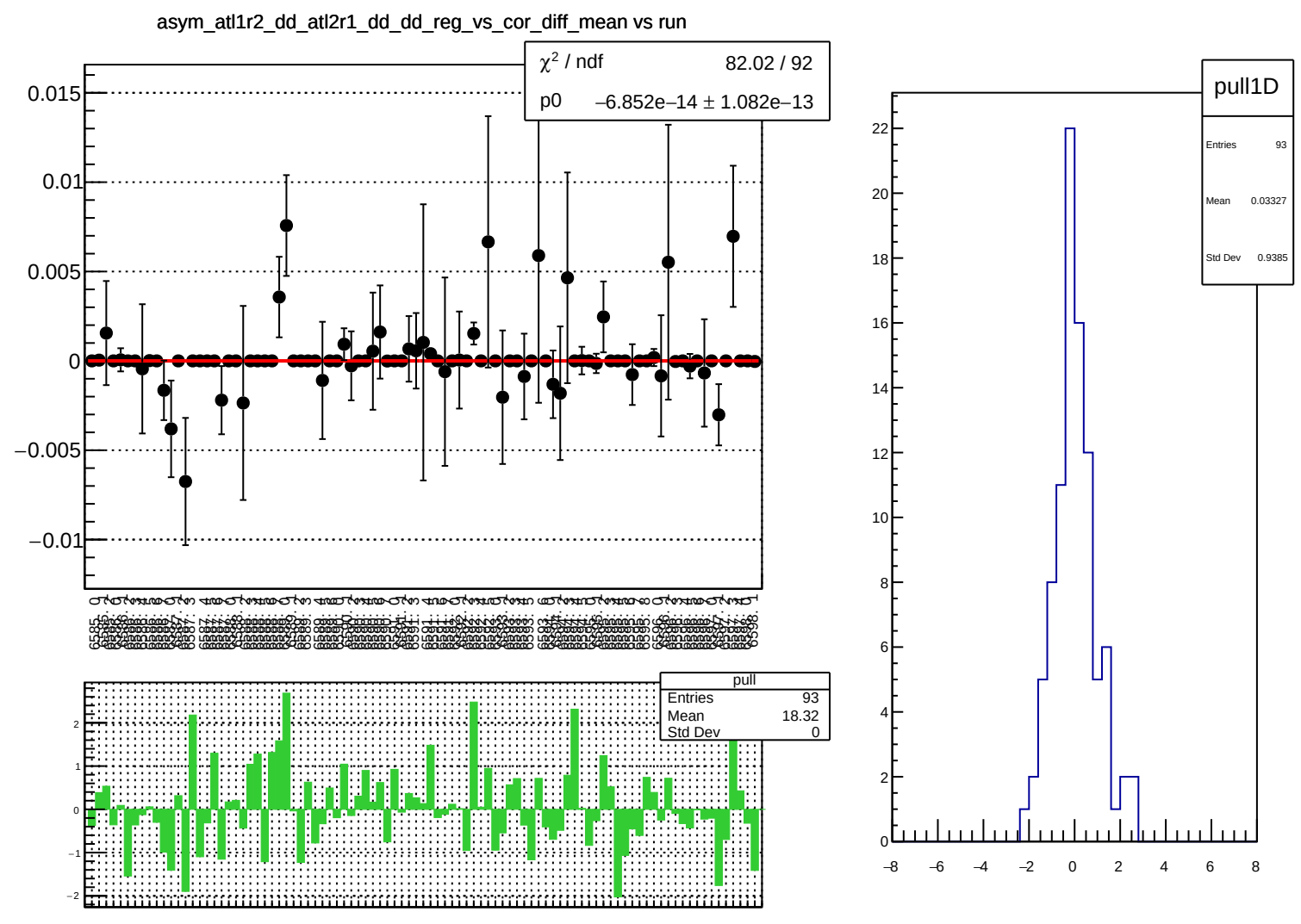

pull1D
Entries 93
Mean −0.001337
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

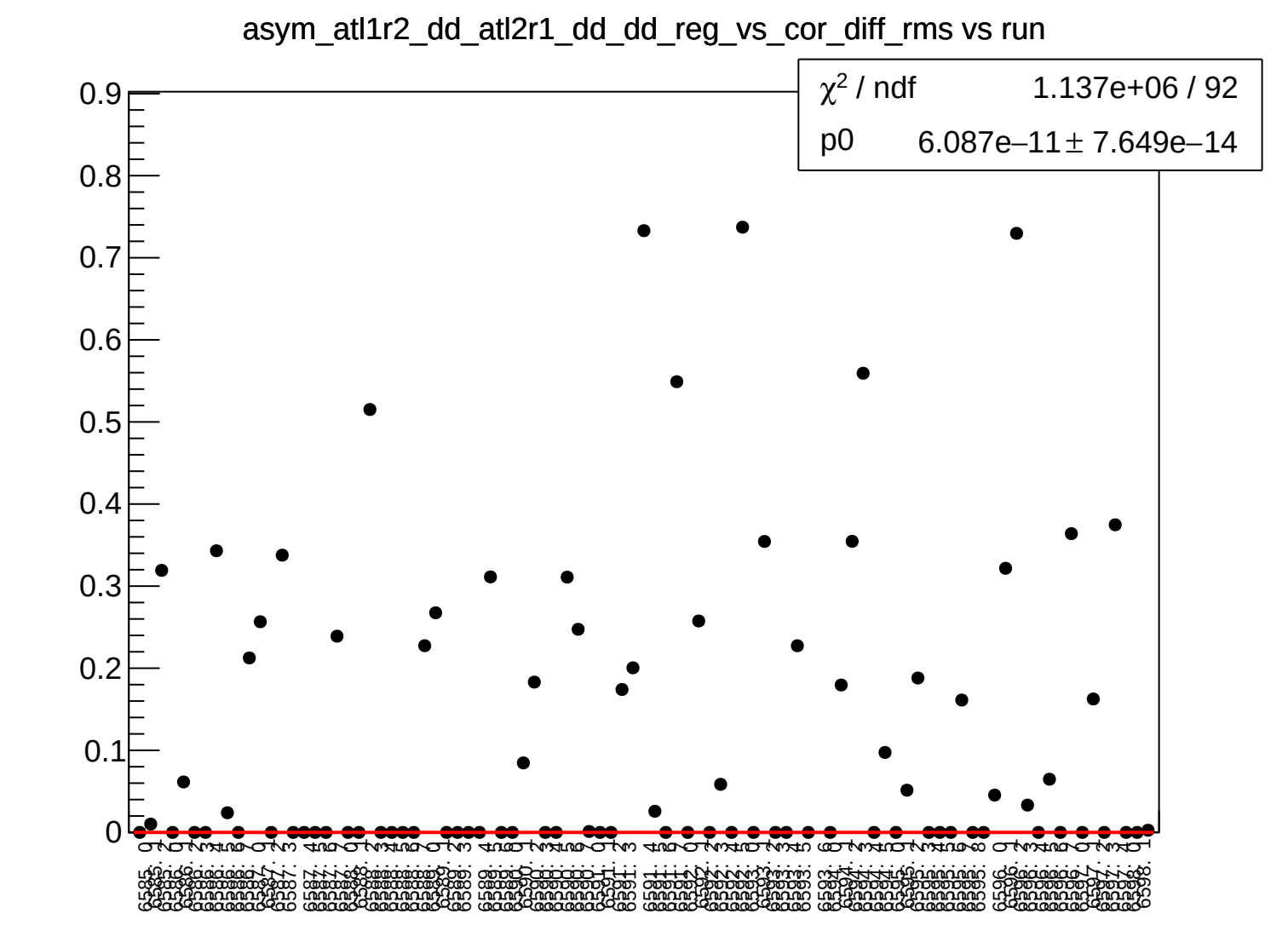

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.419e+04 / 92
p0 3855 ± 2.909
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

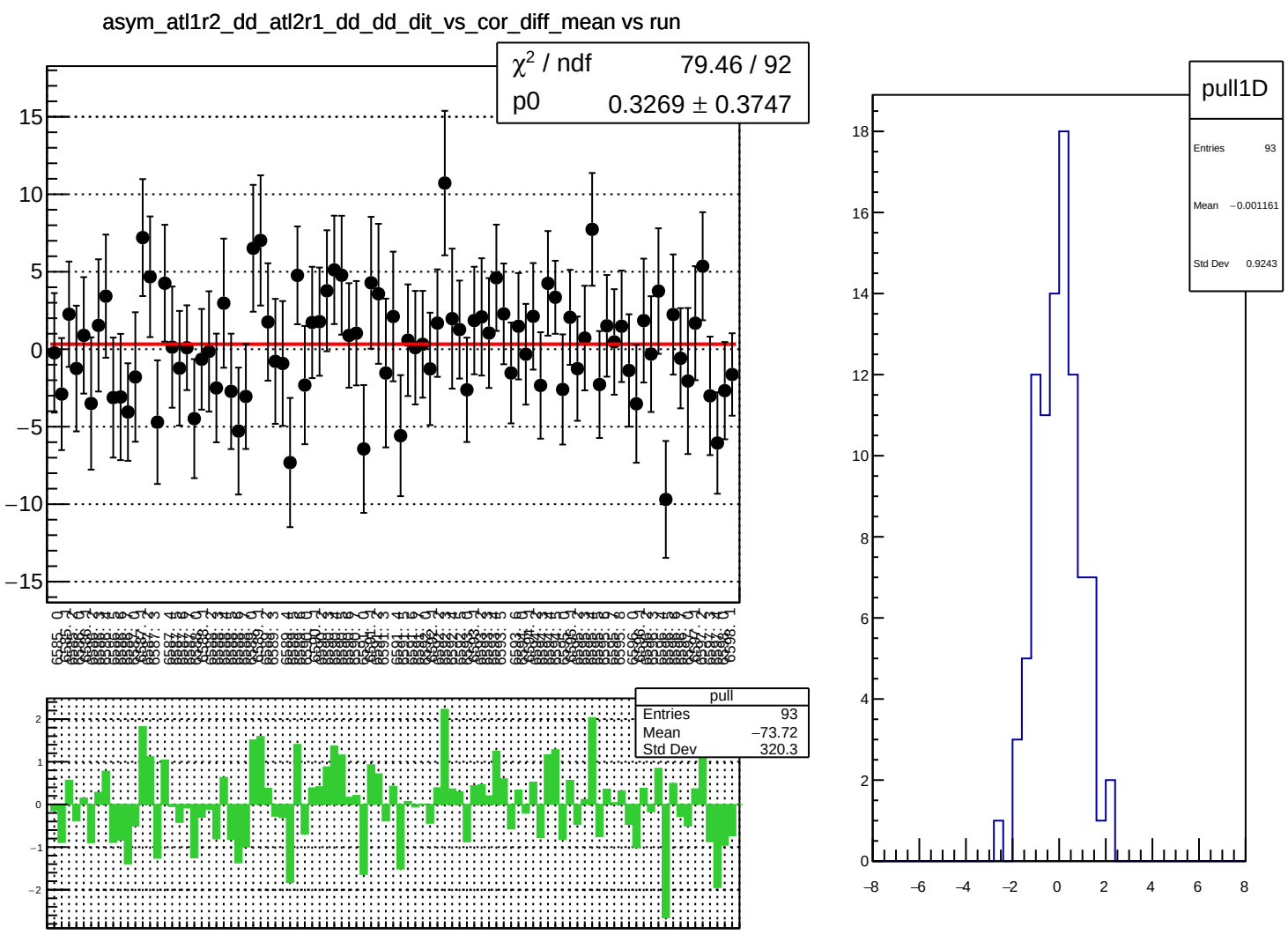

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 99.77 / 92
p0 3280 ± 4067
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 4059
Std Dev 0
2
1
0
−1
−2

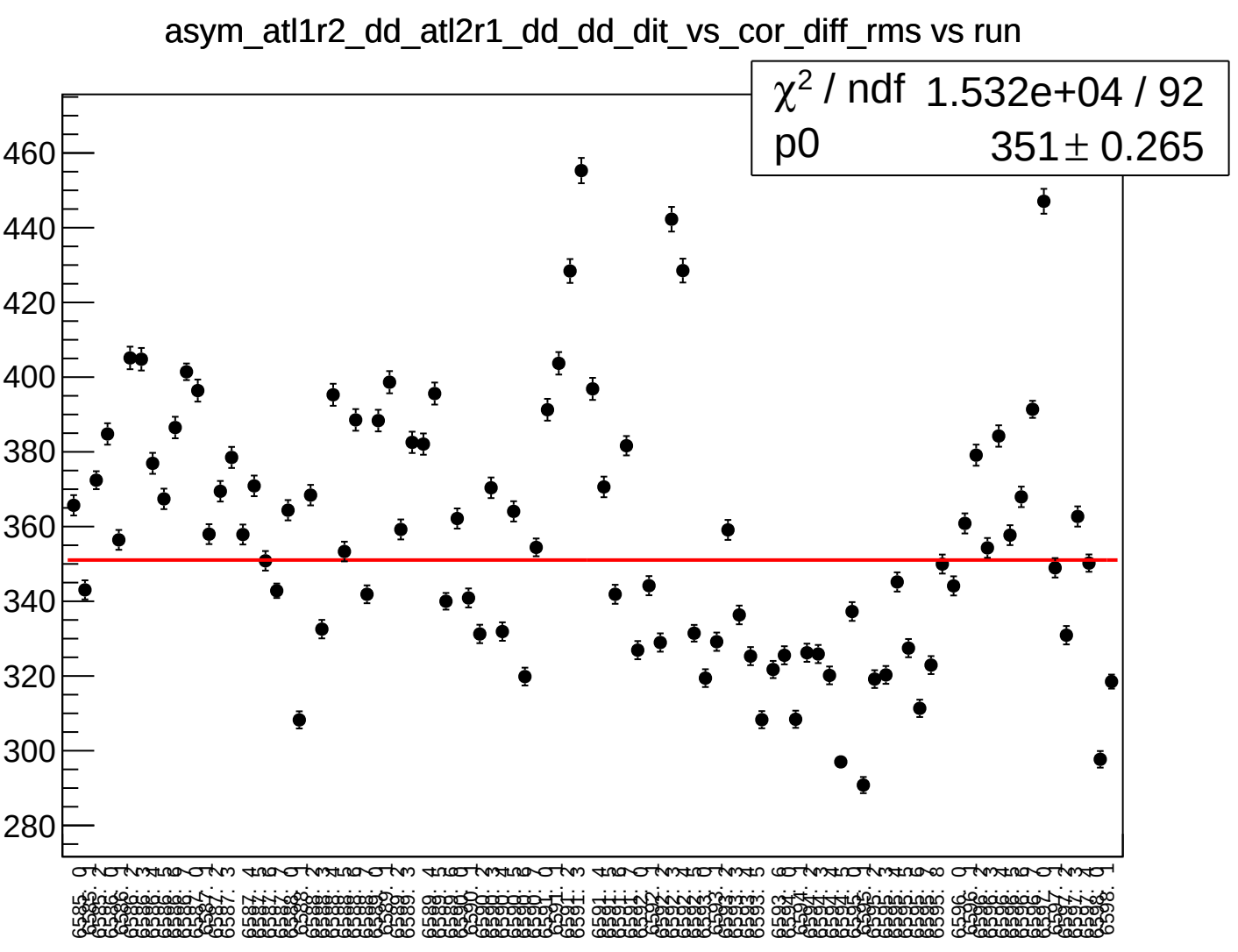

pull1D
Entries 93
Mean −0.0001984
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

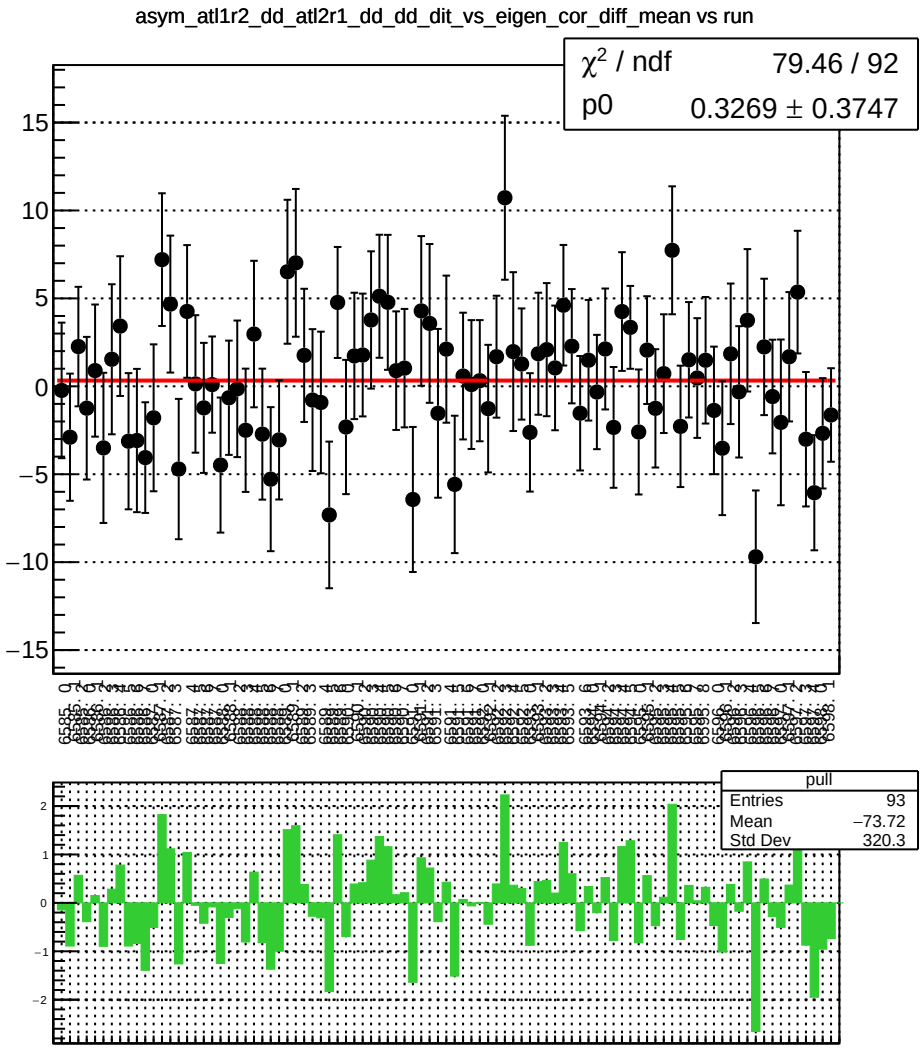

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.096e+04 / 92
p0 3815 ± 2.876
4800
4600
4400
4200
4000
3800
3600
3400
3200

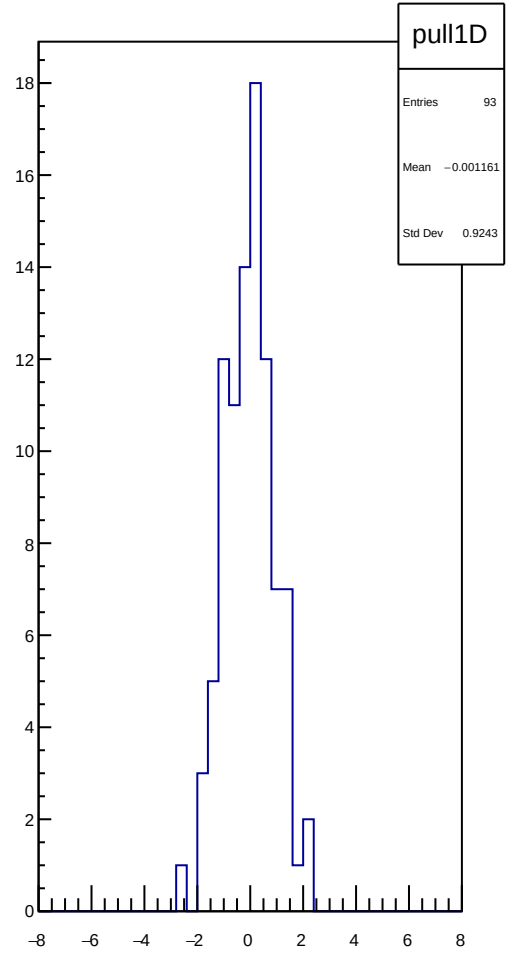

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.02 / 92
p0 −6.852e−14 ± 1.082e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 18.32
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.03327
Std Dev 0.9385
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

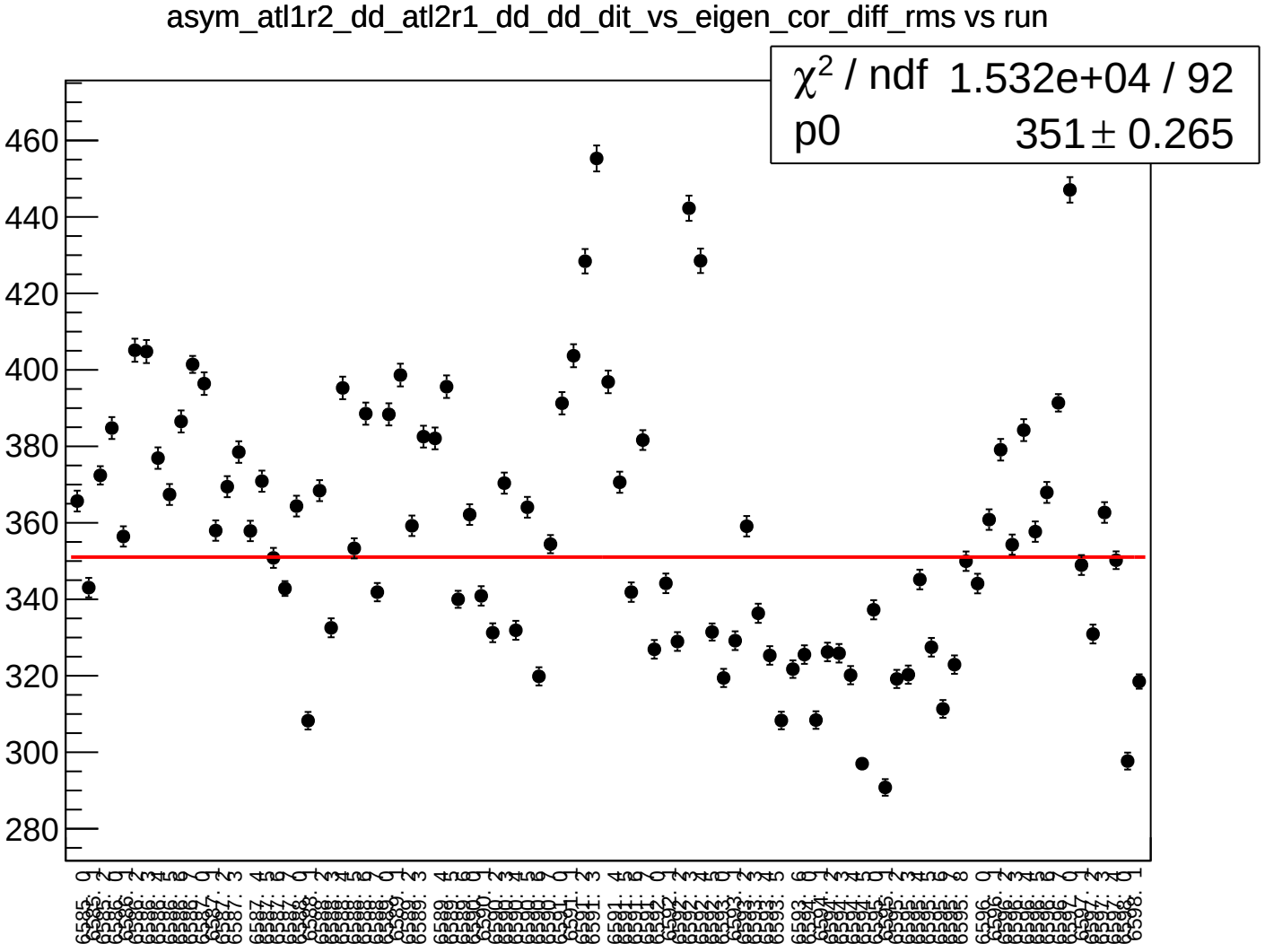

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 92
p0 6.087e−11 ± 7.649e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

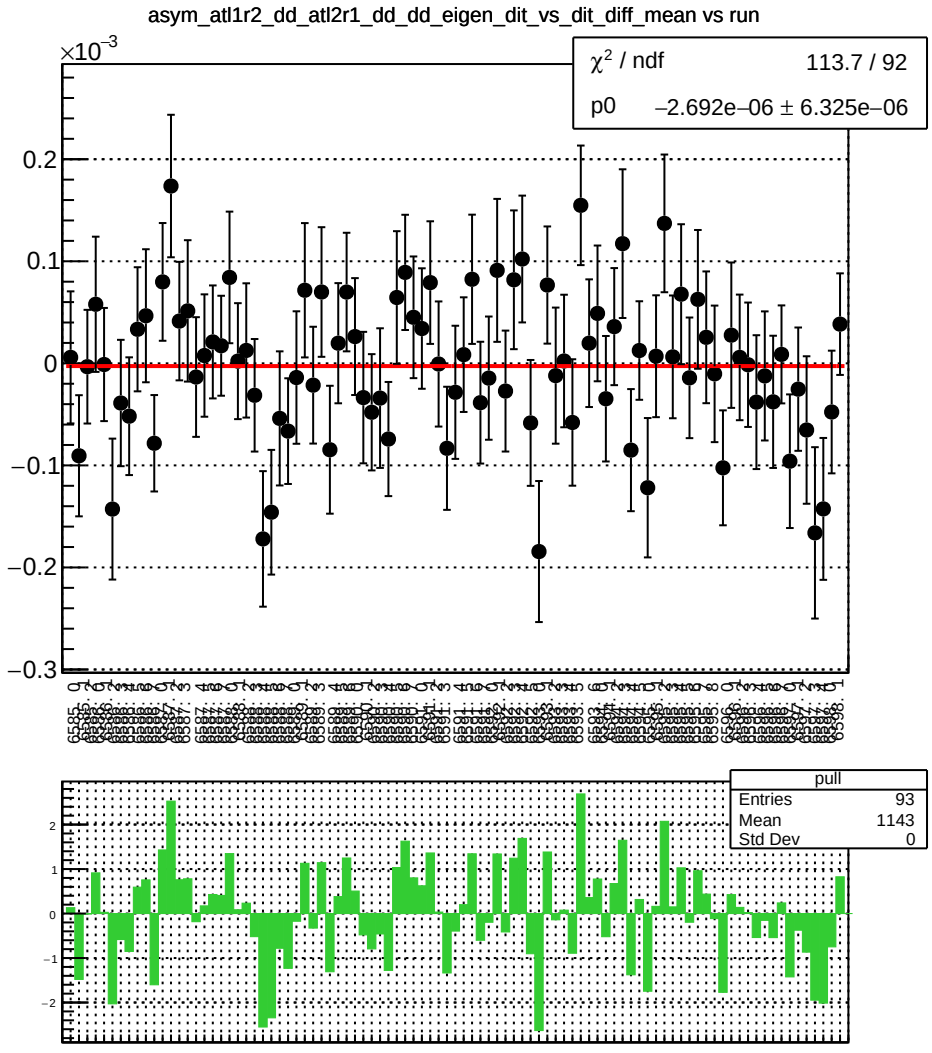

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.72
Std Dev 320.3
pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

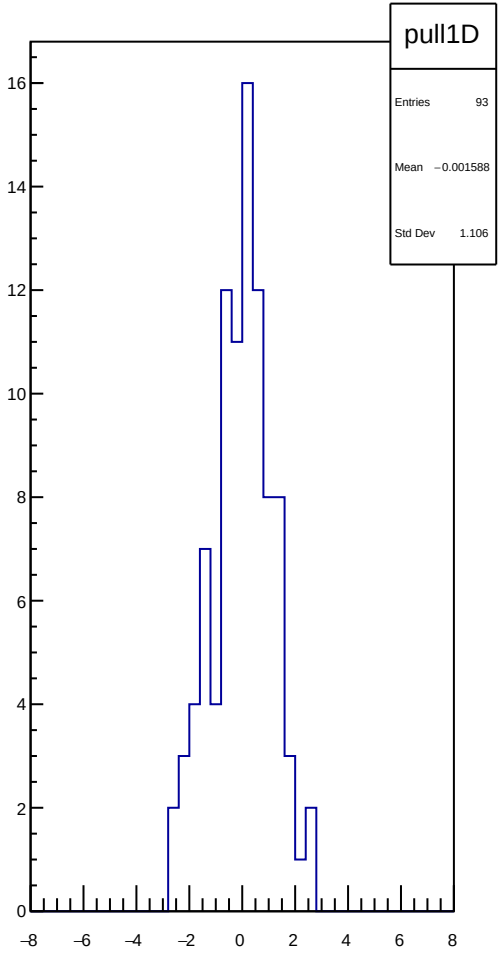

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

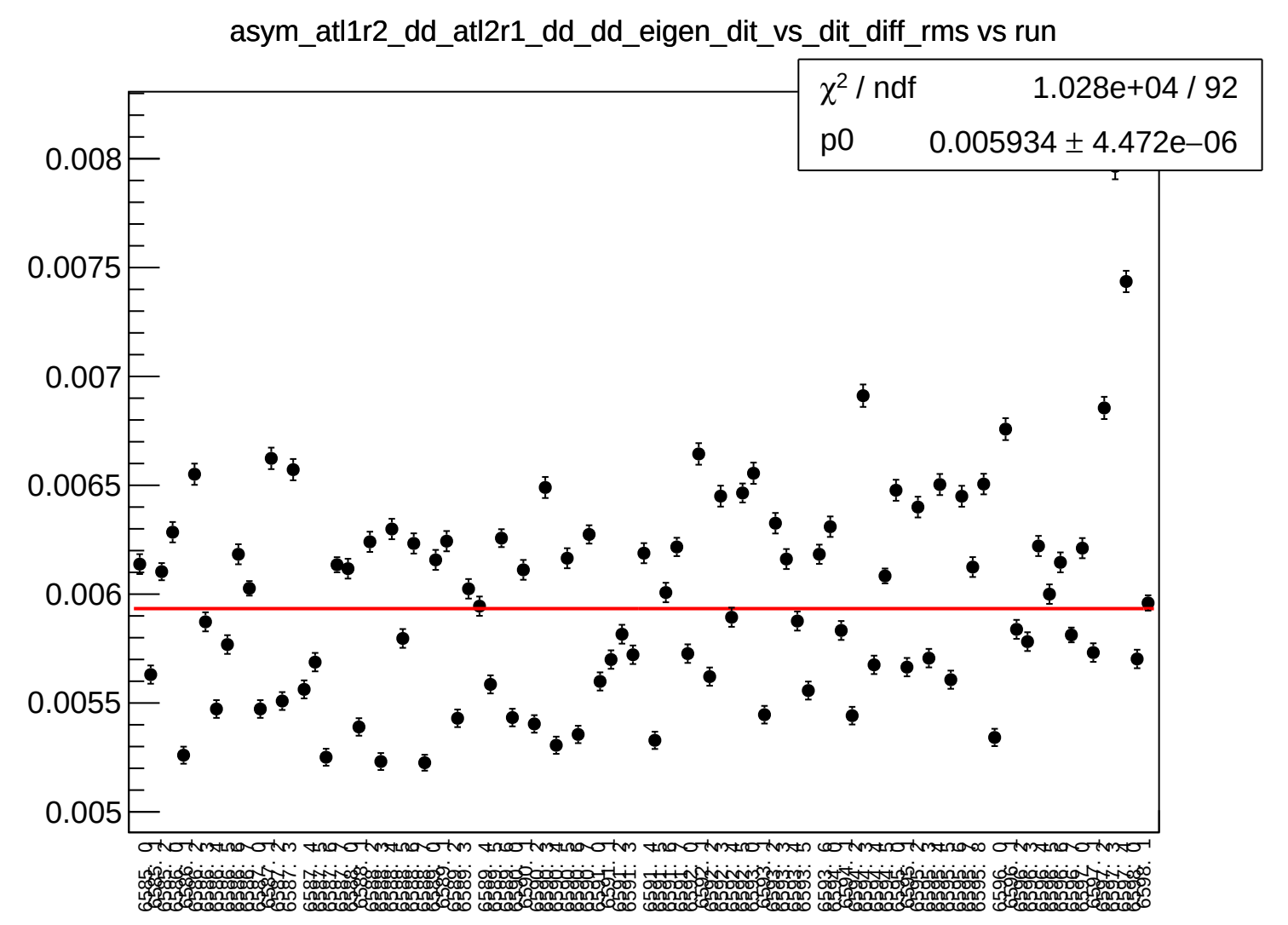

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.72
Std Dev 320.3

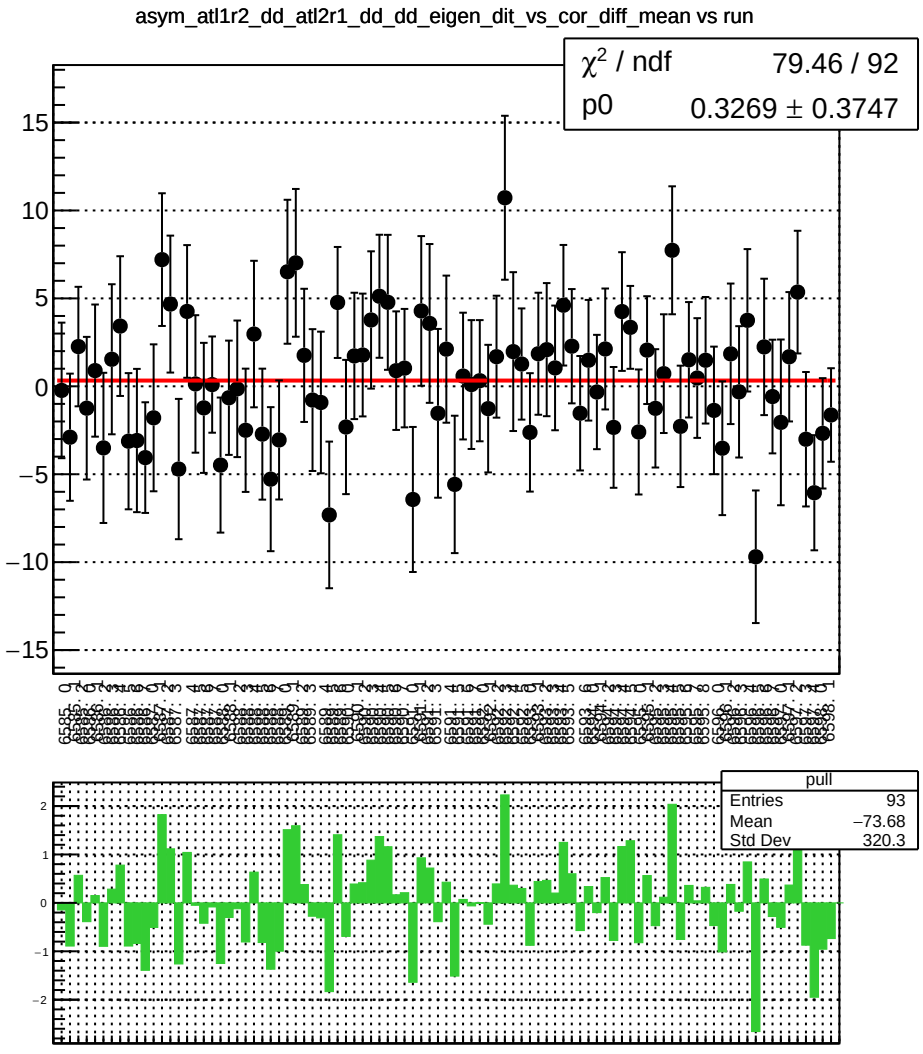

pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

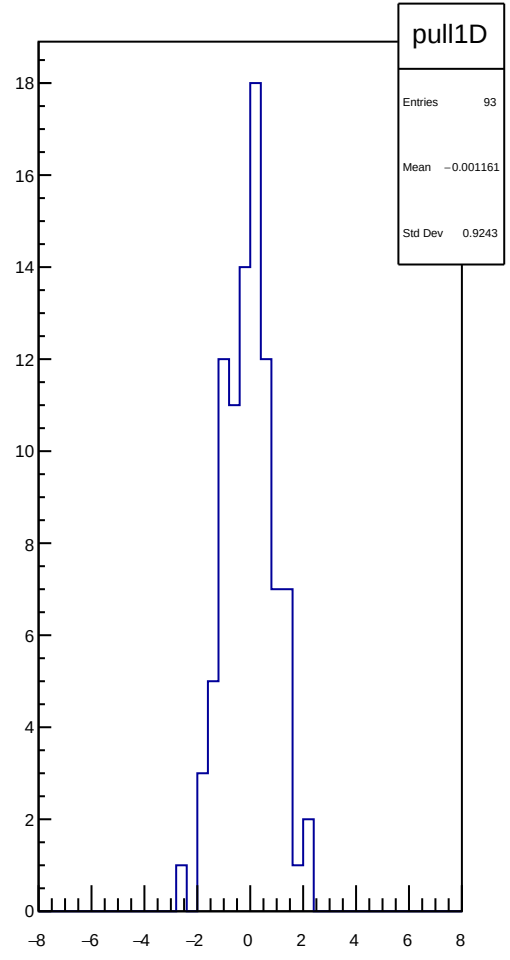

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

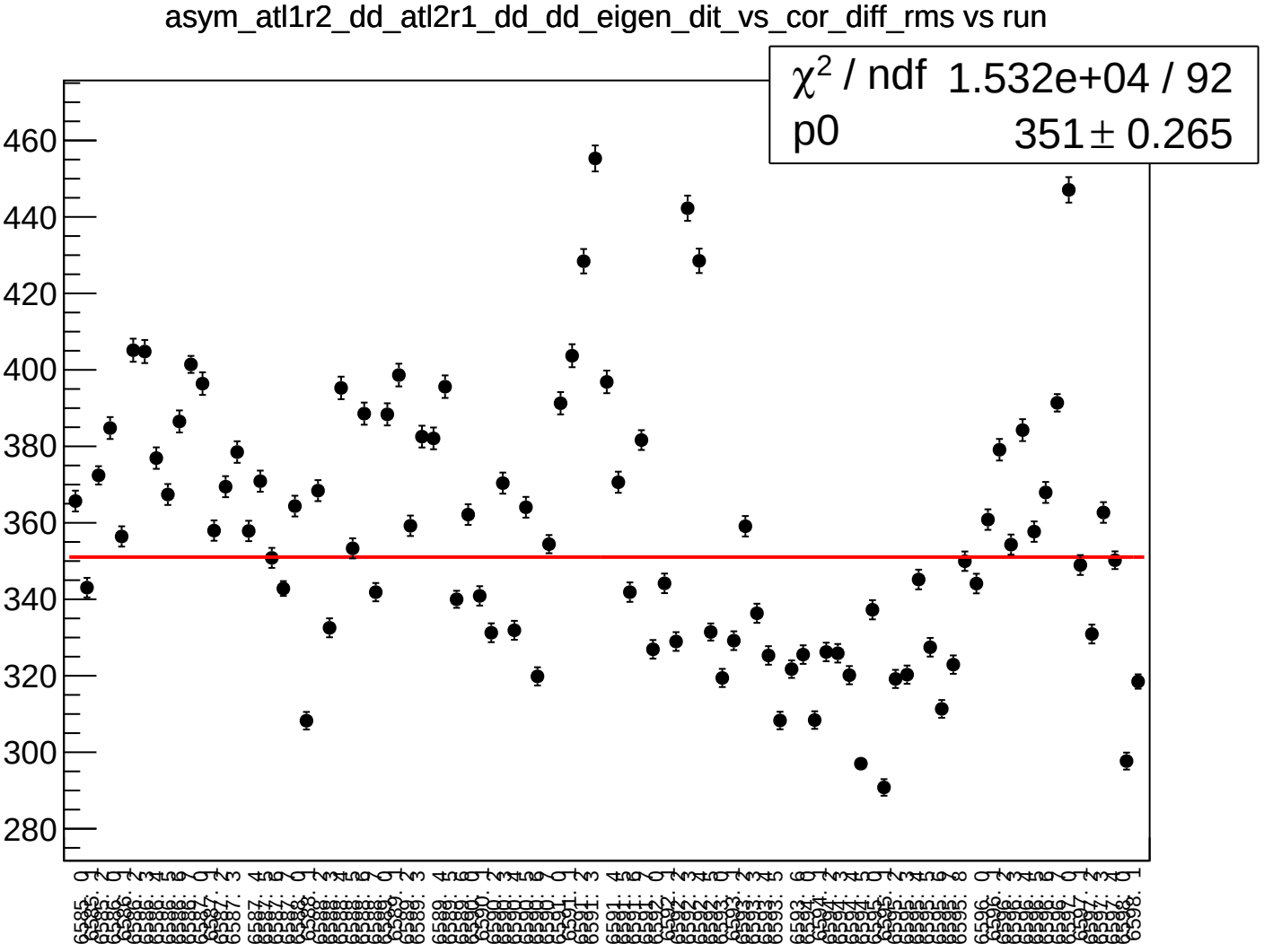

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.7 / 92
p0 −2.692e−06 ± 6.325e−06
pull
Entries 93
Mean 1143
Std Dev 0

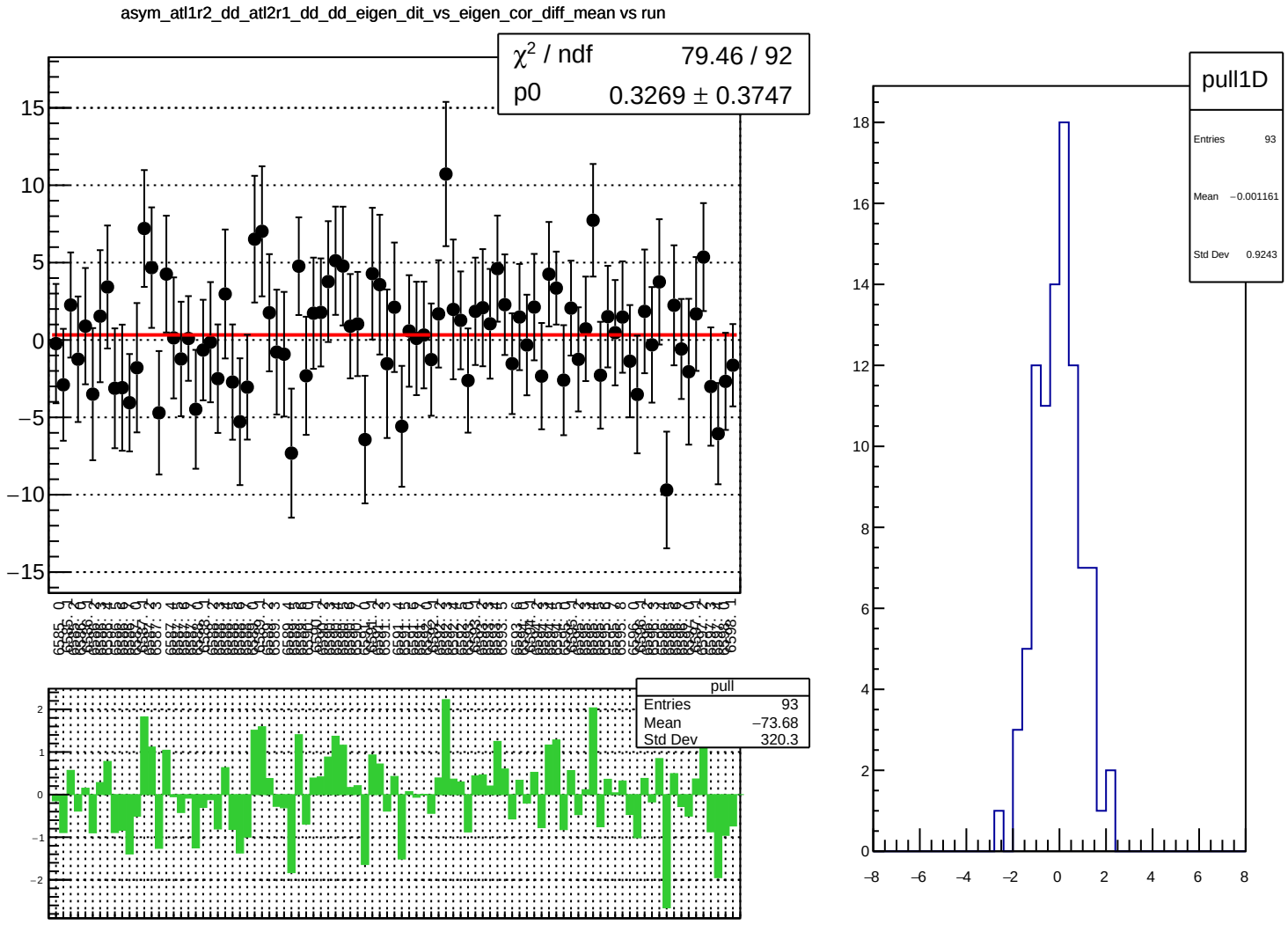

pull1D
Entries 93
Mean −0.001588
Std Dev 1.106

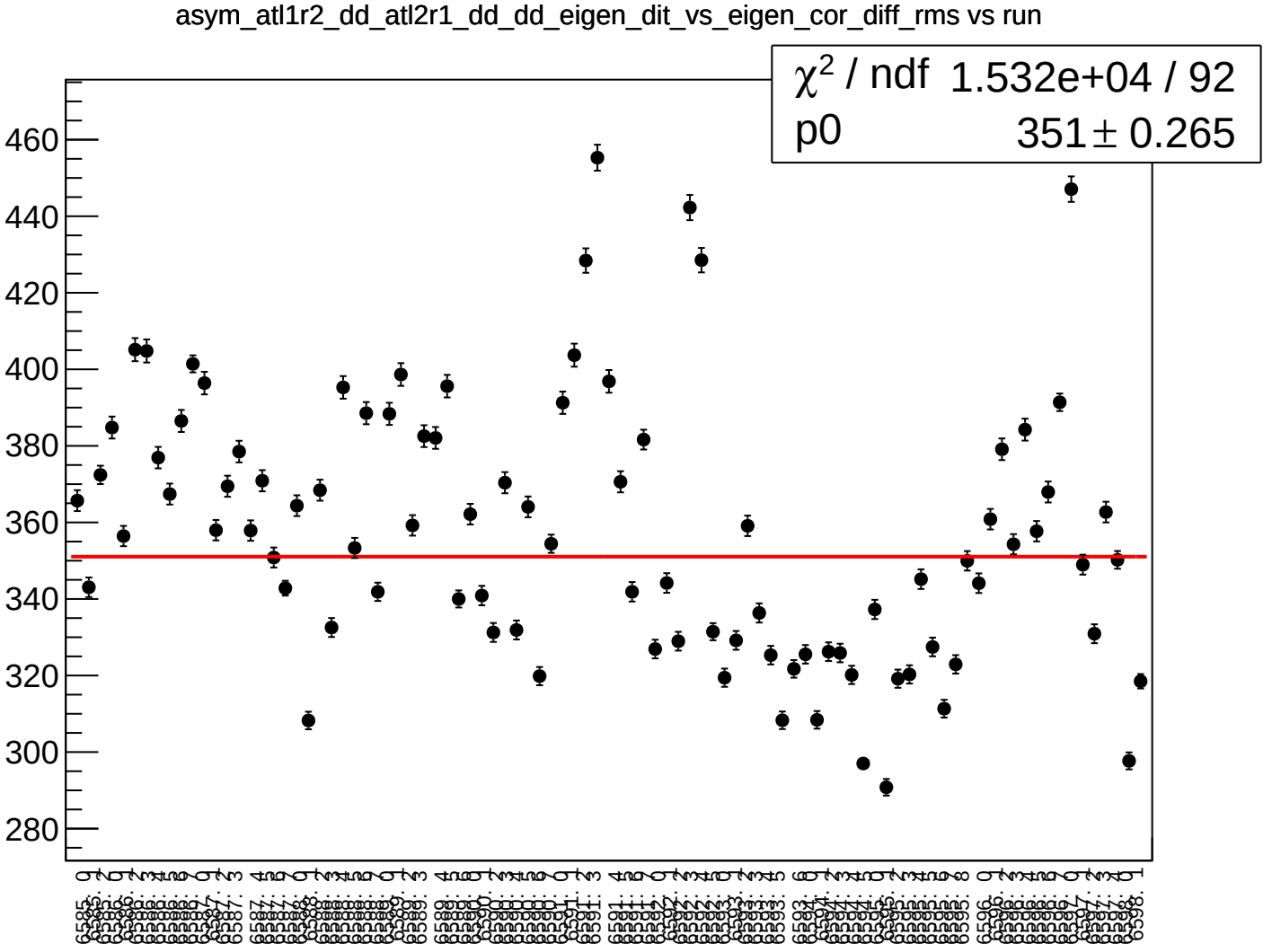

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.028e+04 / 92
p0 0.005934 ± 4.472e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

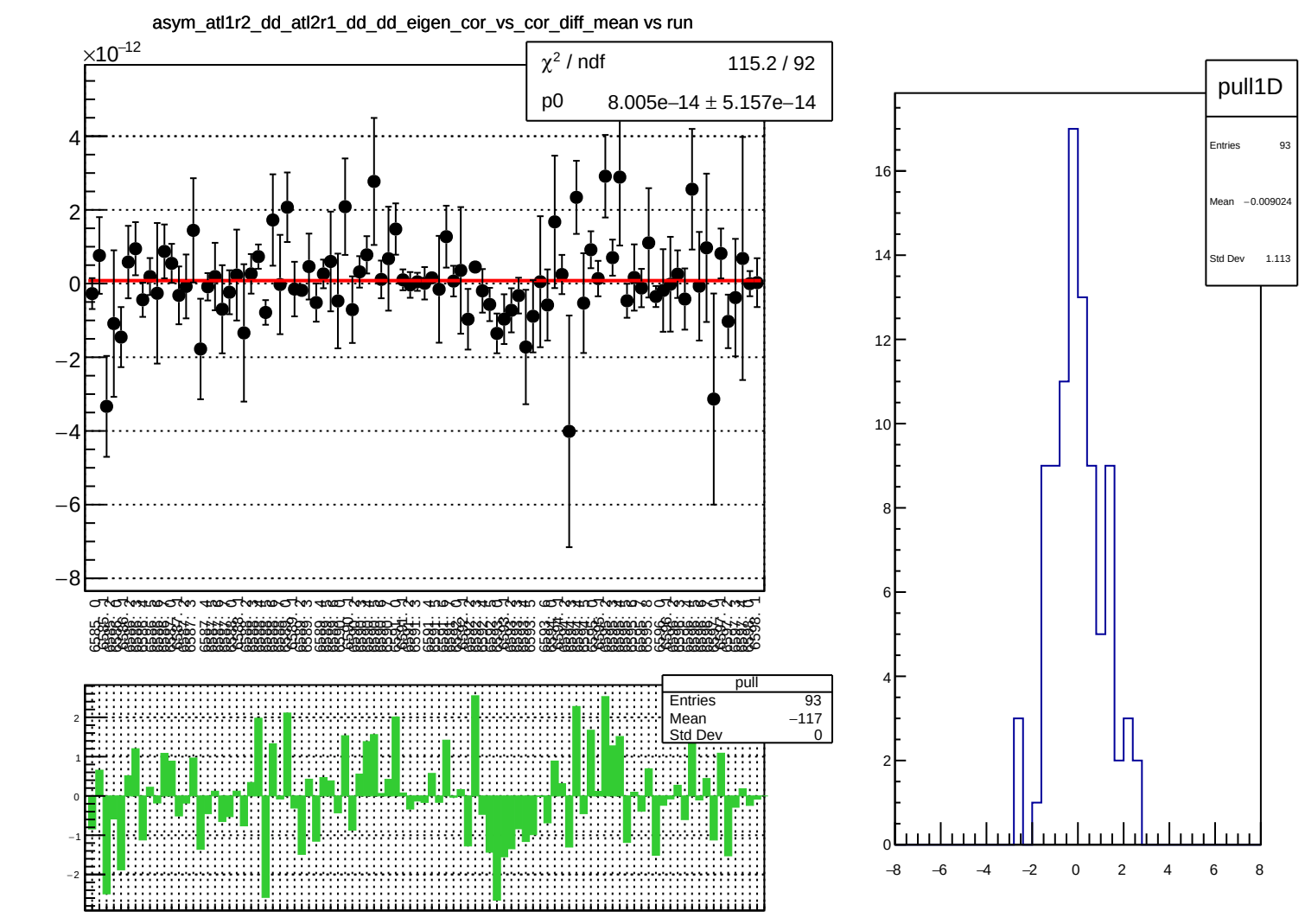

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.68
Std Dev 320.3

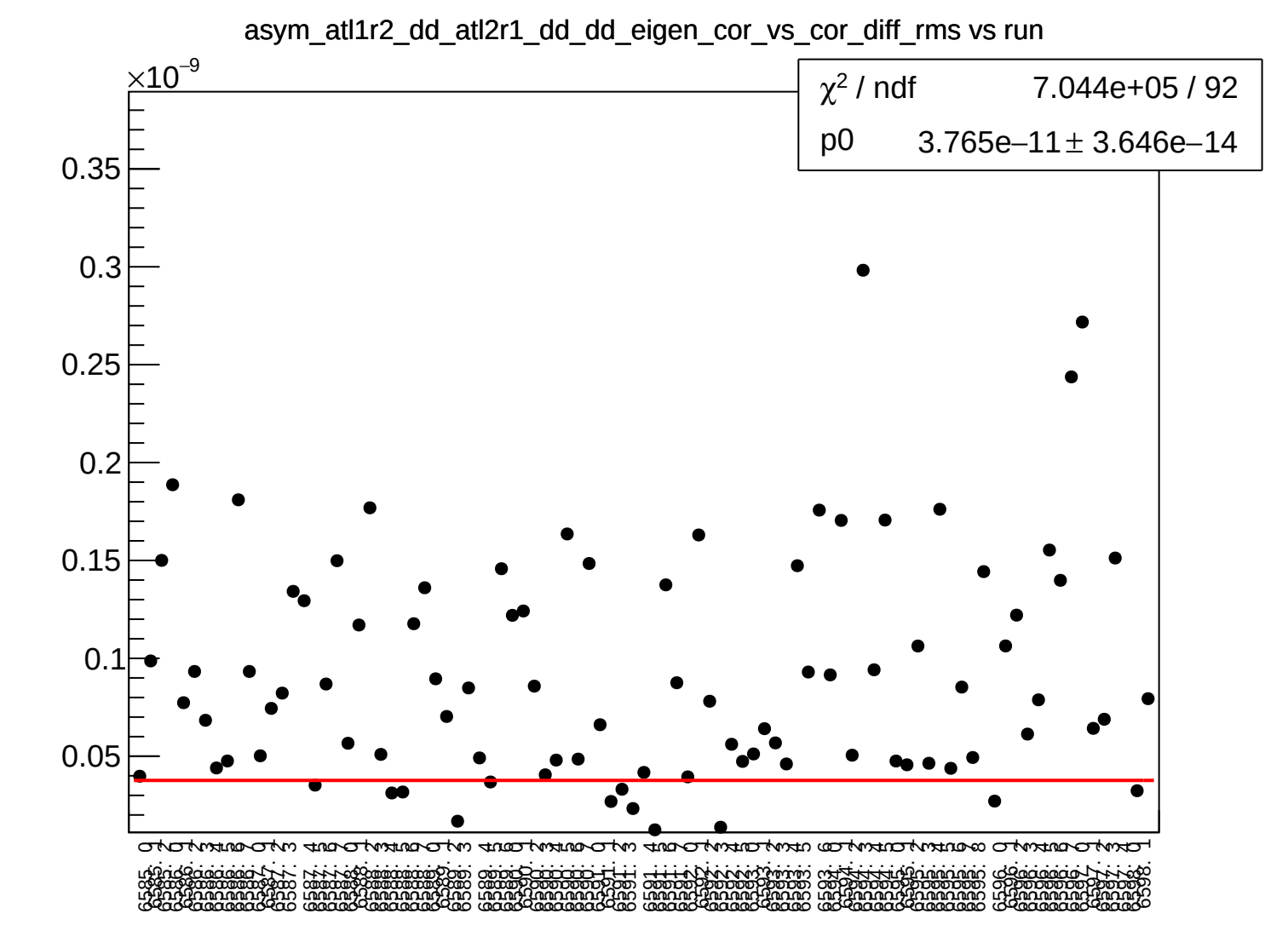

pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

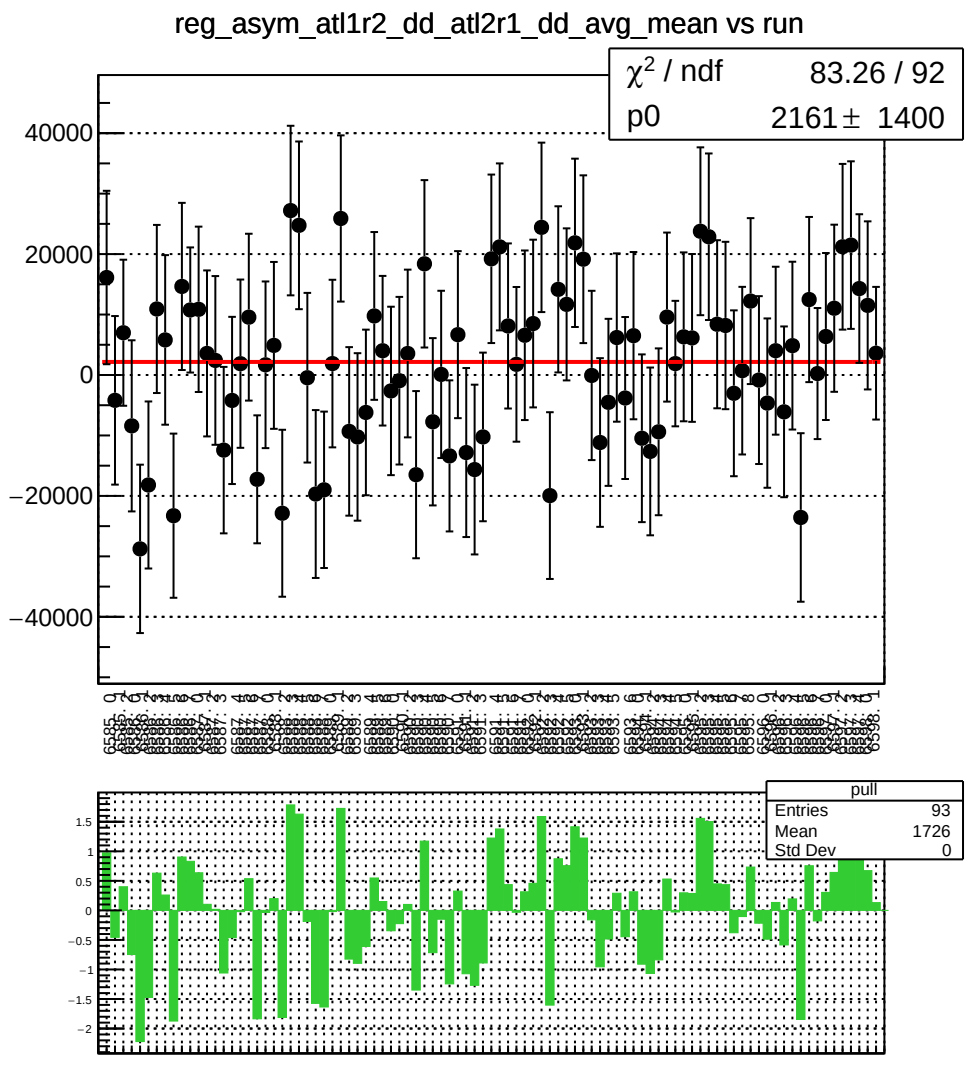

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

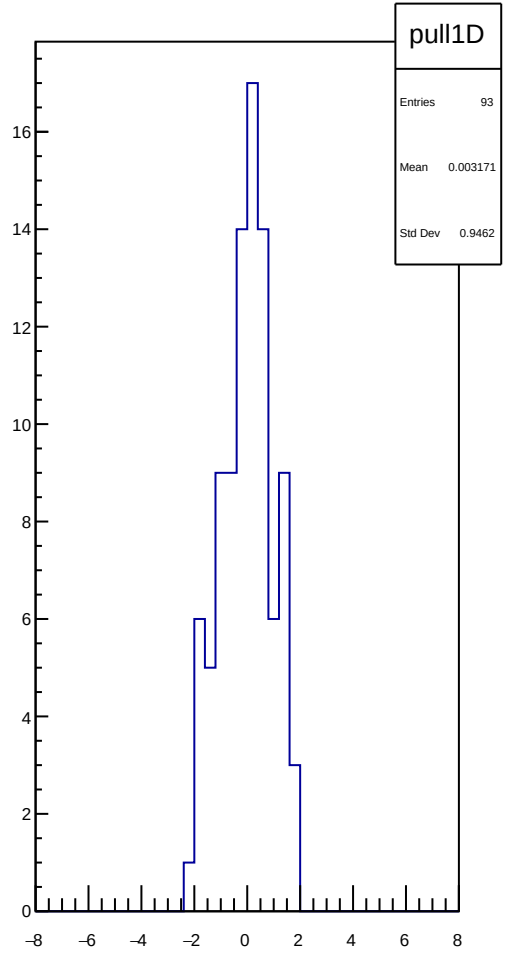

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.46 / 92
p0 0.3269 ± 0.3747
pull
Entries 93
Mean −73.68
Std Dev 320.3
pull1D
Entries 93
Mean −0.001161
Std Dev 0.9243

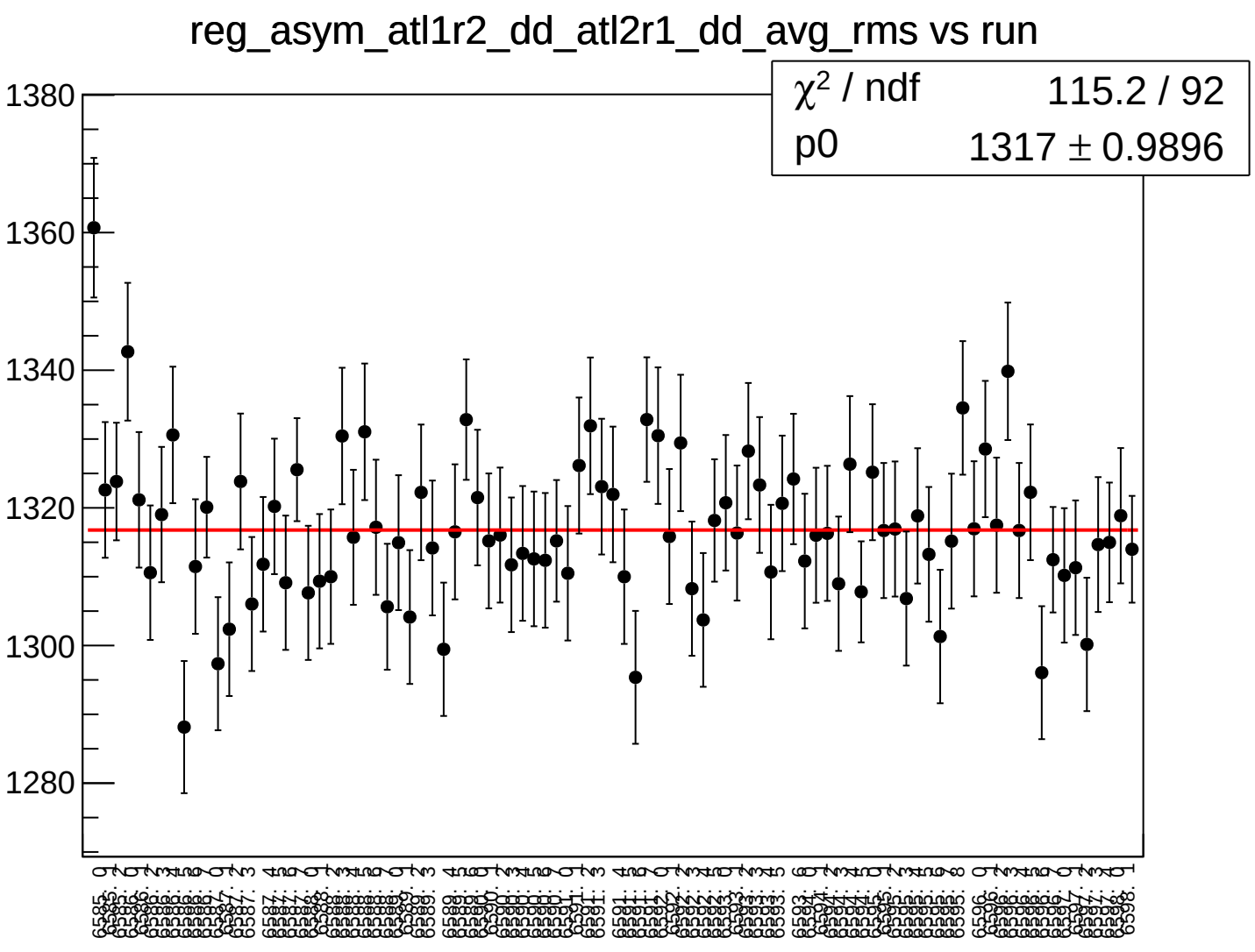

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 92
p0 351 ± 0.265
460
440
420
400
380
360
340
320
300
280

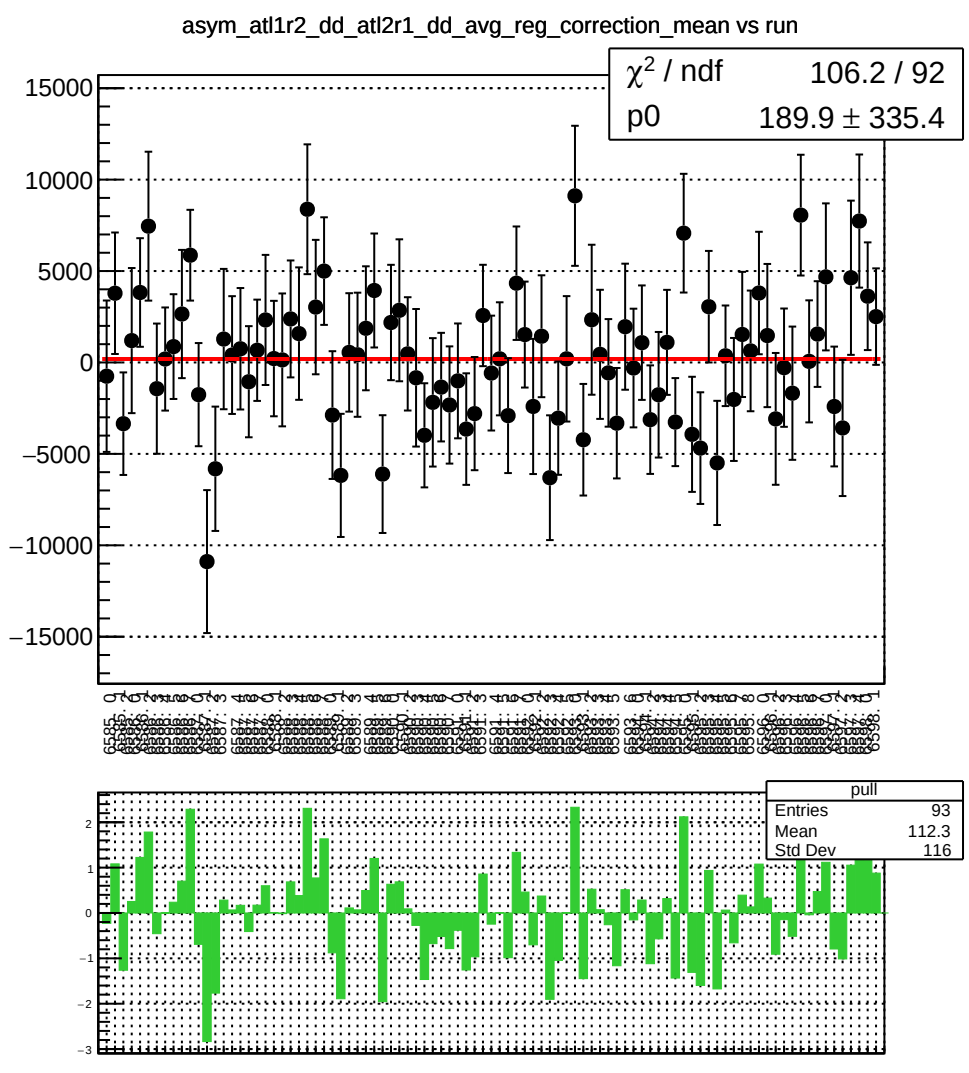

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 115.2 / 92
p0 8.005e−14 ± 5.157e−14
pull
Entries 93
Mean −117
Std Dev 0
pull1D
Entries 93
Mean −0.009024
Std Dev 1.113

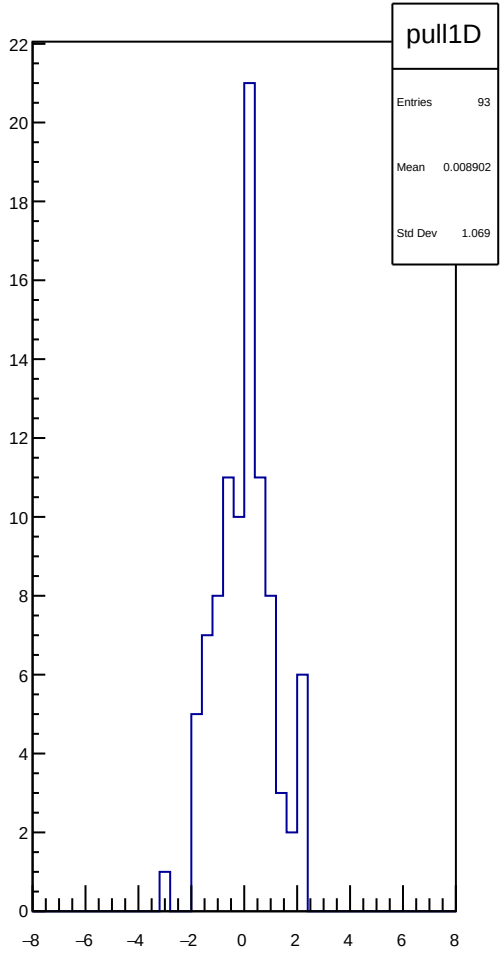

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.044e+05 / 92
p0 3.765e−11 ± 3.646e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

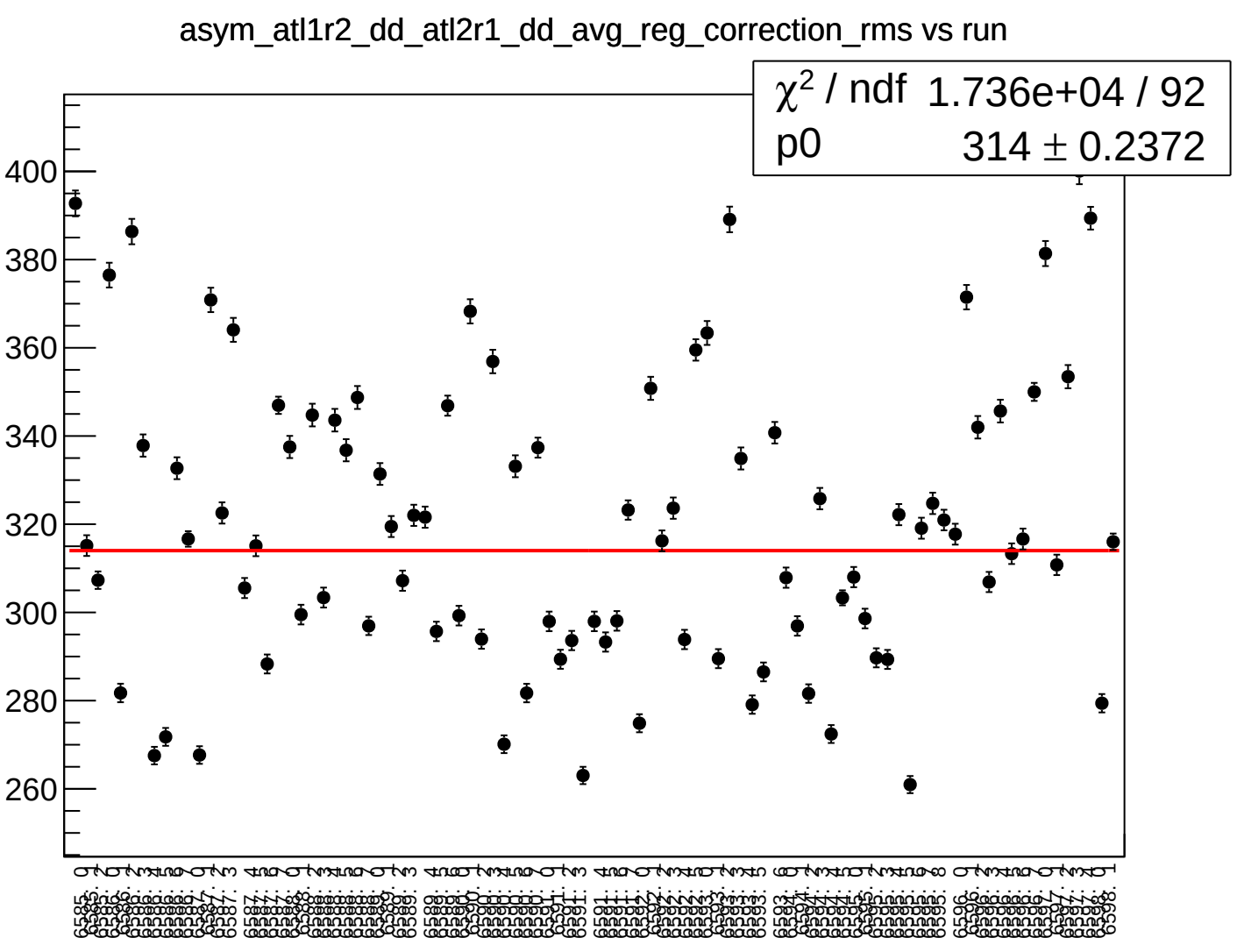

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.26 / 92
p0 2161 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1726
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

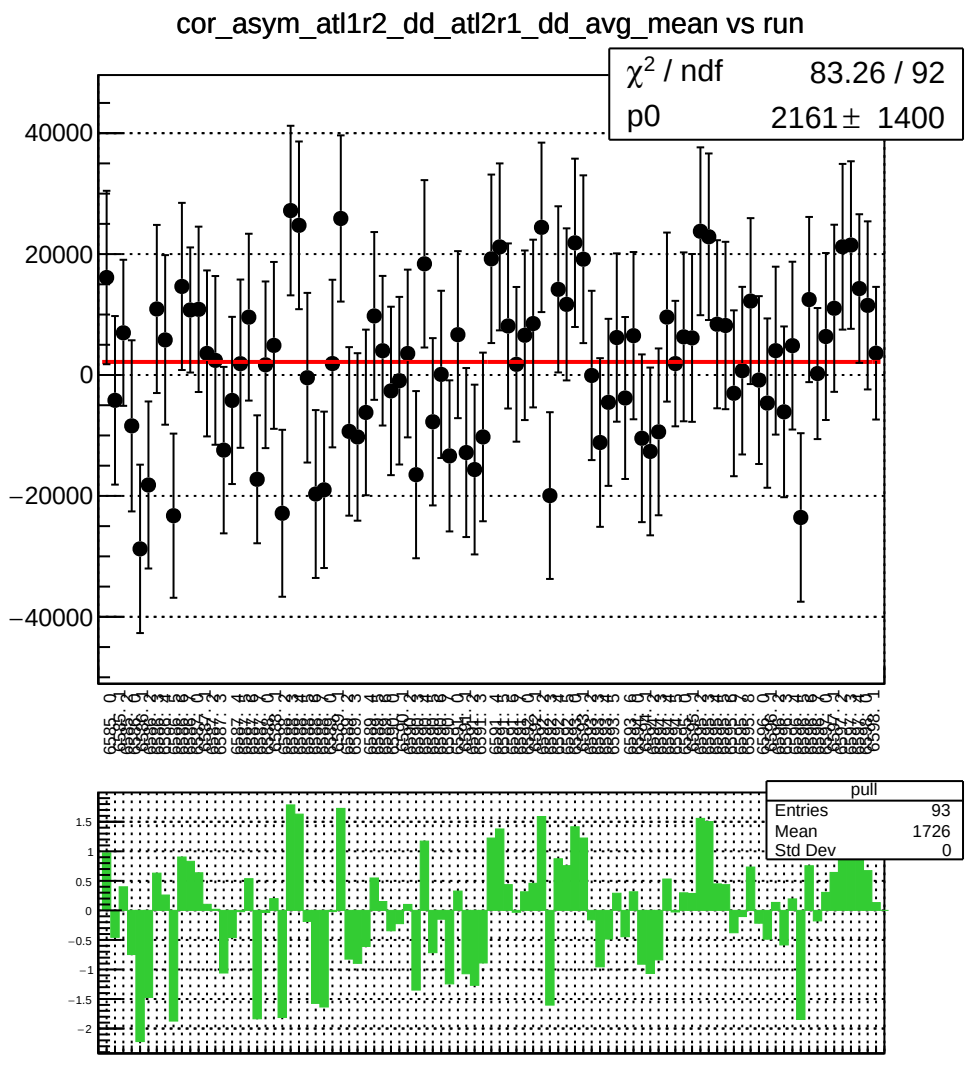

pull1D
Entries 93
Mean 0.003171
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

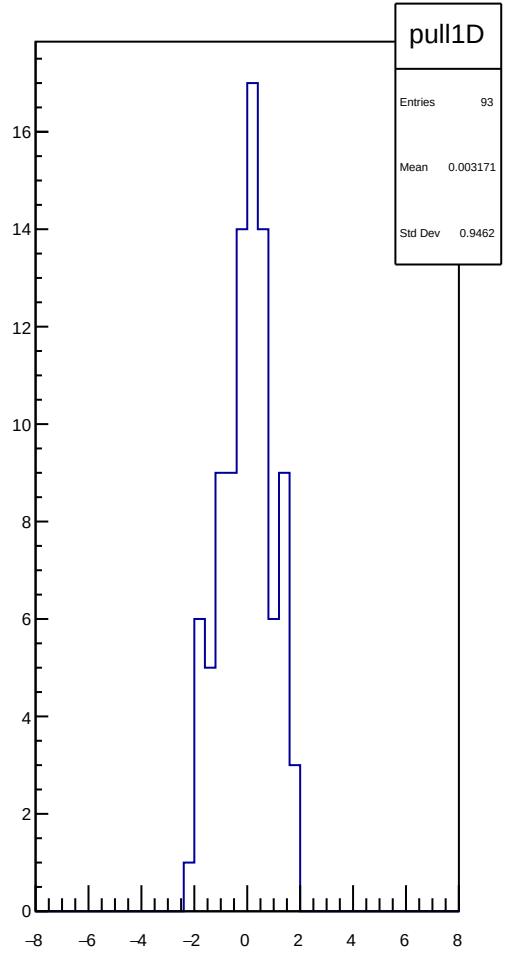

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 115.2 / 92
p0 1317 ± 0.9896
1380
1360
1340
1320
1300
1280

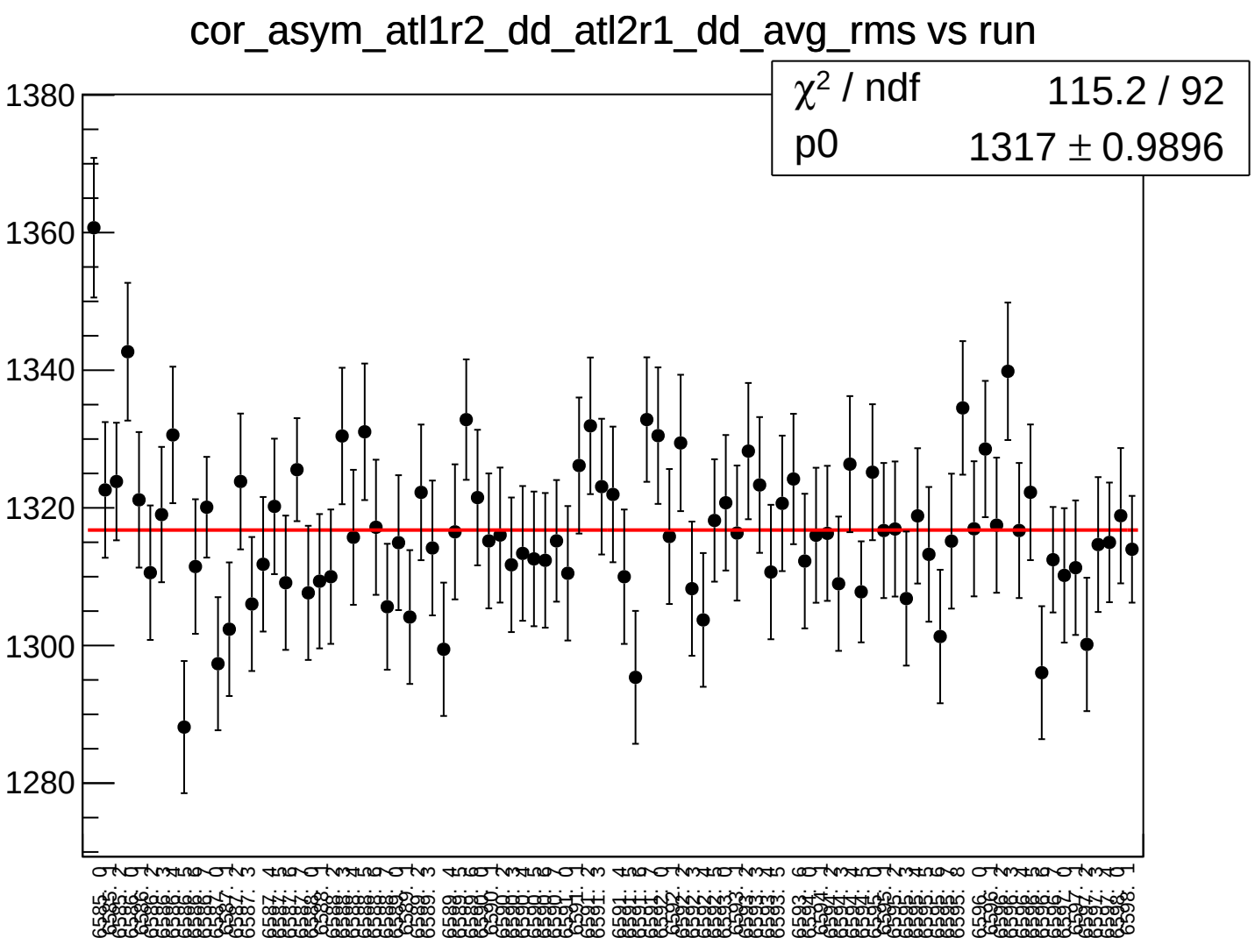

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 106.2 / 92
p0 189.9 ± 335.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 112.3
Std Dev 116
2
1
0
−1
−2
−3

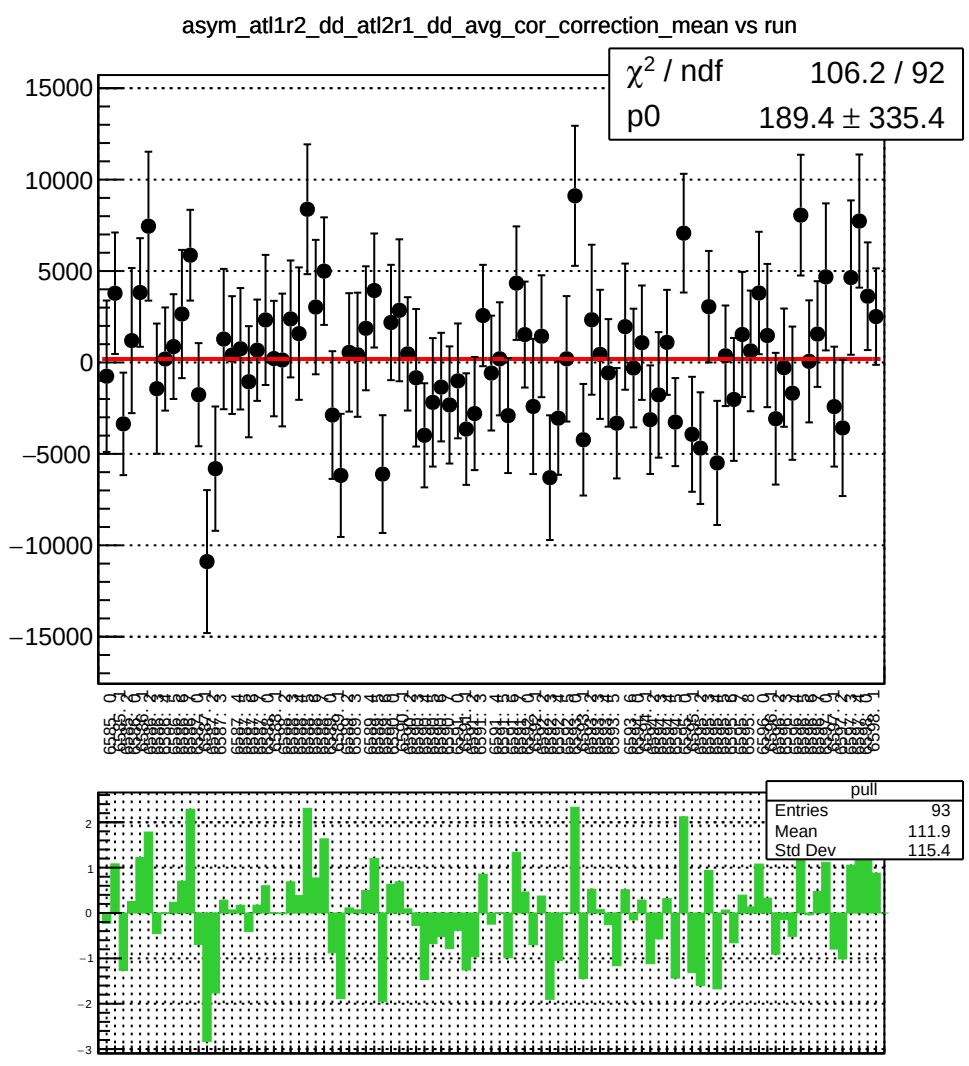

pull1D
Entries 93
Mean 0.008902
Std Dev 1.069
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

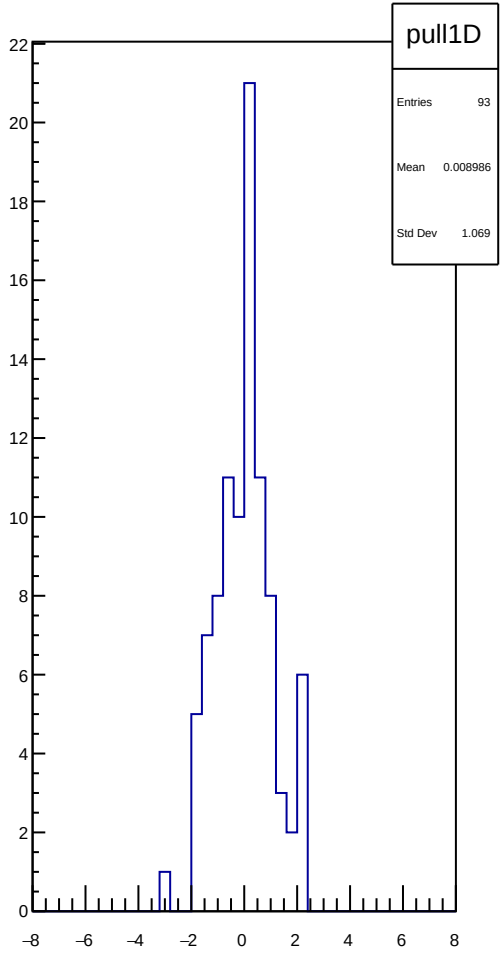

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.736e+04 / 92
p0 314 ± 0.2372
400
380
360
340
320
300
280
260

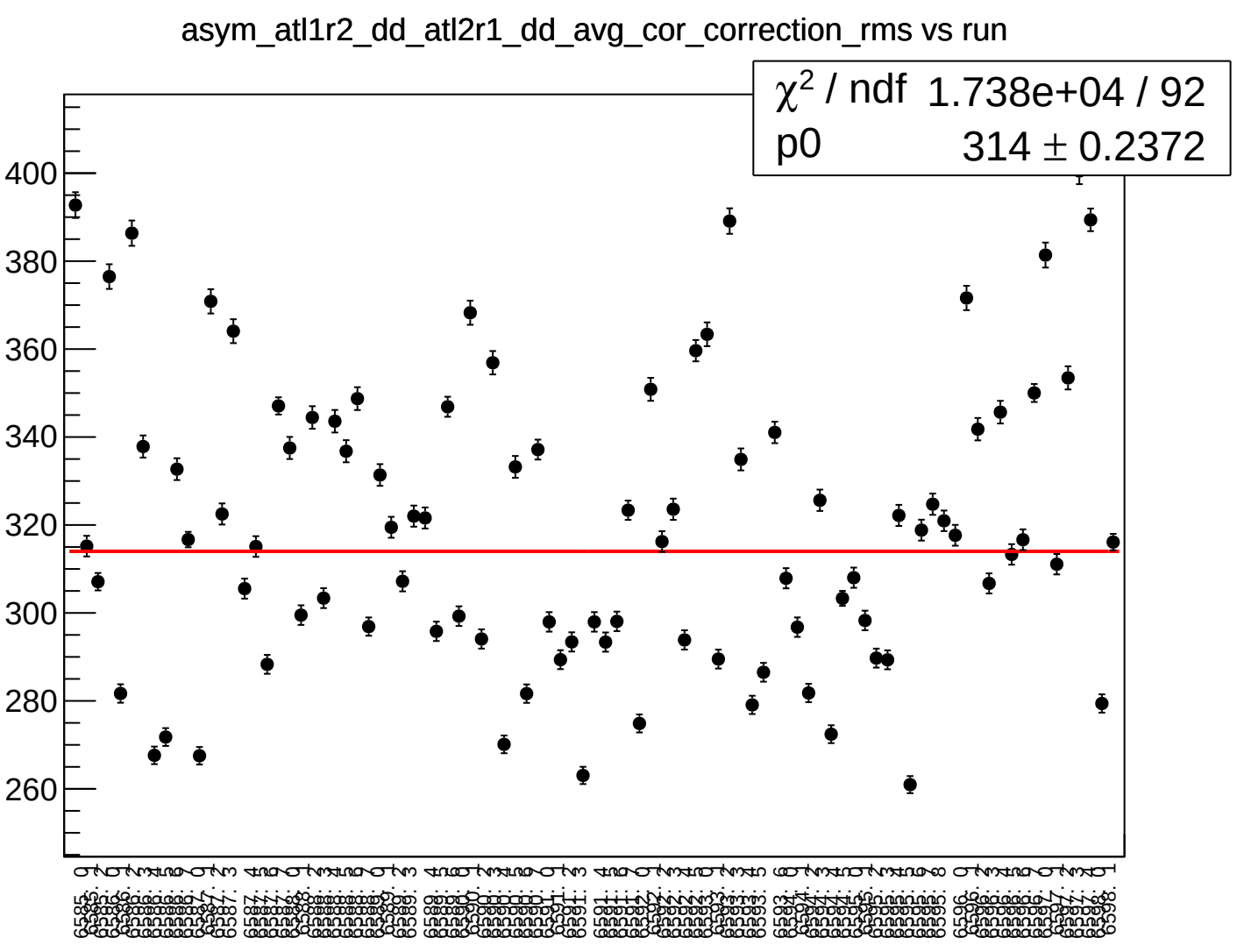

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.26 / 92
p0 2161 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1726
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

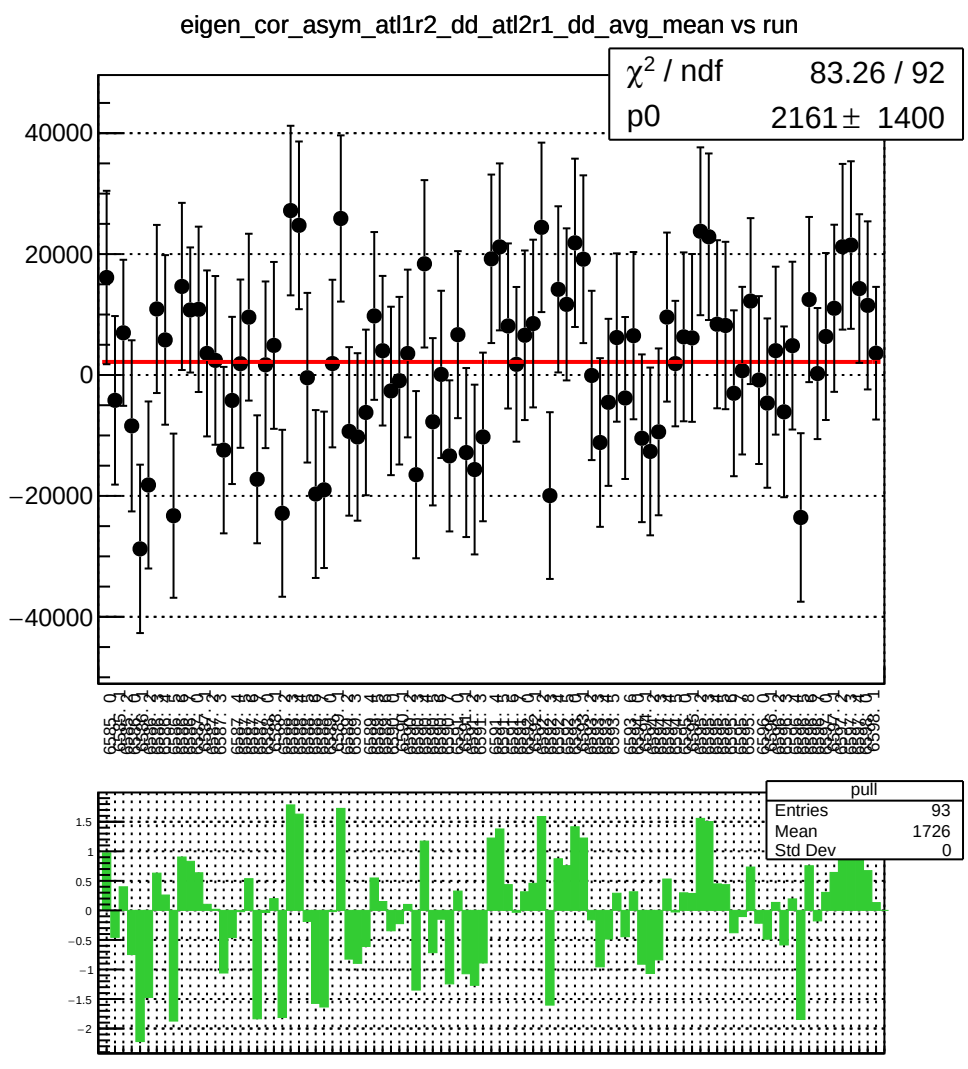

pull1D
Entries 93
Mean 0.003171
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

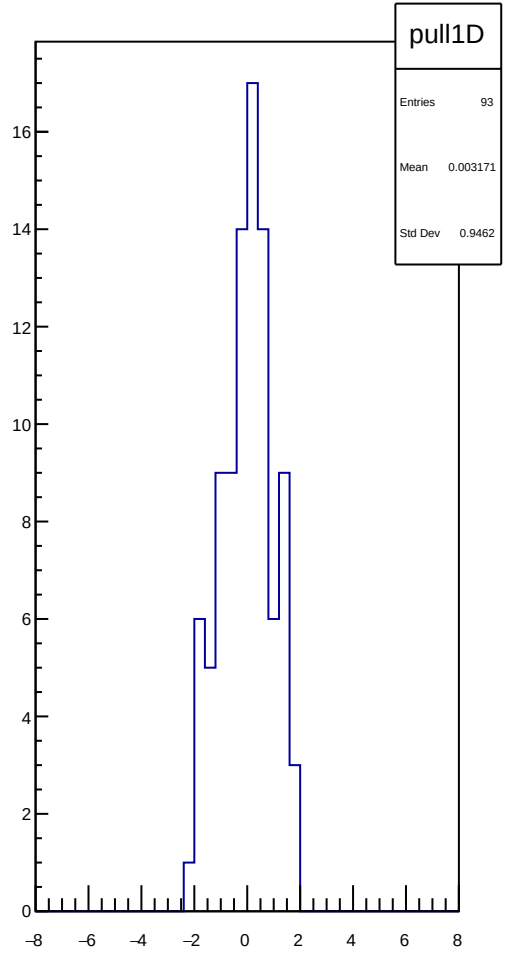

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 115.2 / 92
p0 1317 ± 0.9896
1380
1360
1340
1320
1300
1280


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 106.2 / 92
p0 189.4 ± 335.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 111.9
Std Dev 115.4
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean 0.008986
Std Dev 1.069
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 1.738e+04 / 92
p0 314 ± 0.2372
400
380
360
340
320
300
280
260


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 83.26 / 92
p0 2161 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1726
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.003171
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
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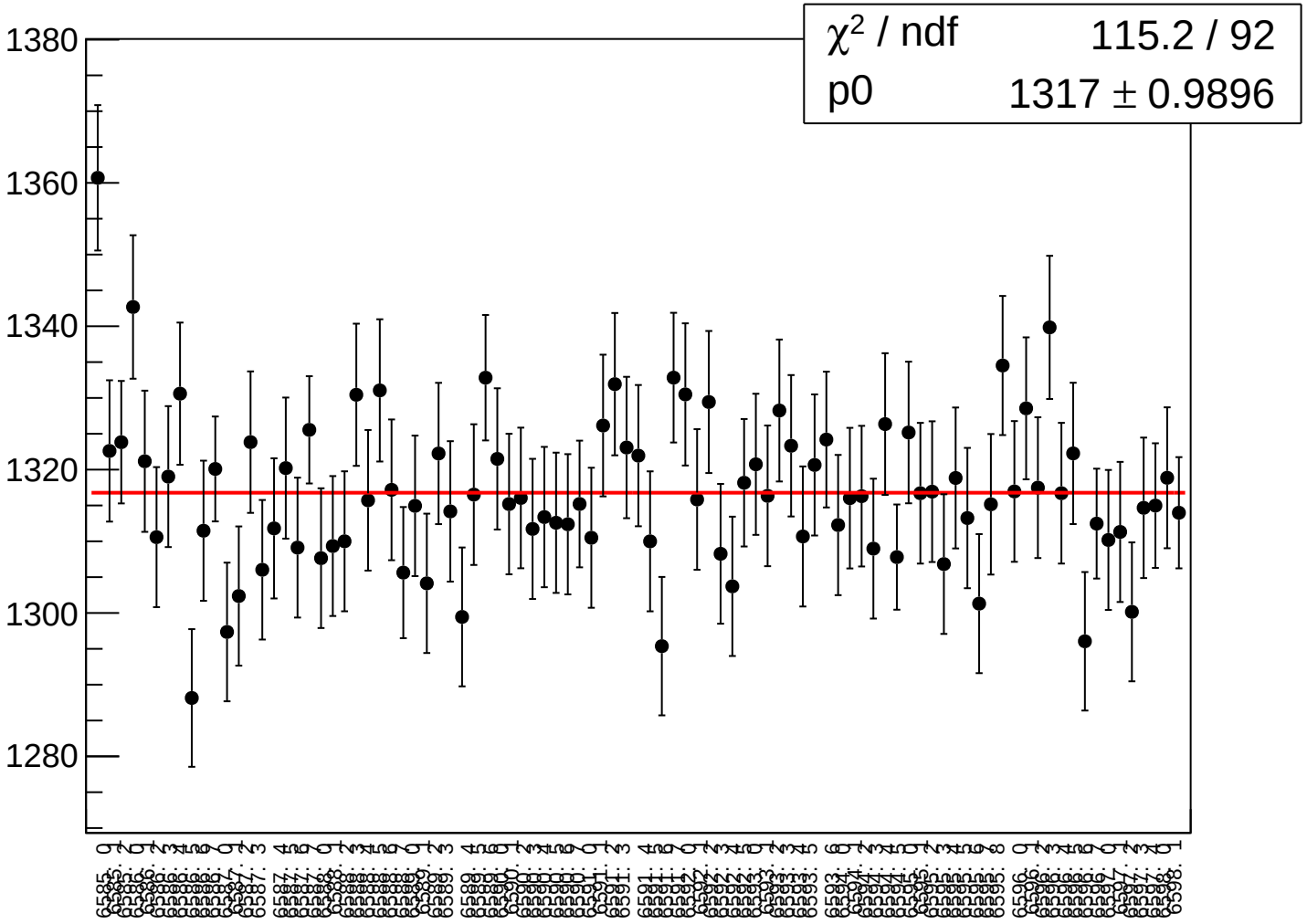
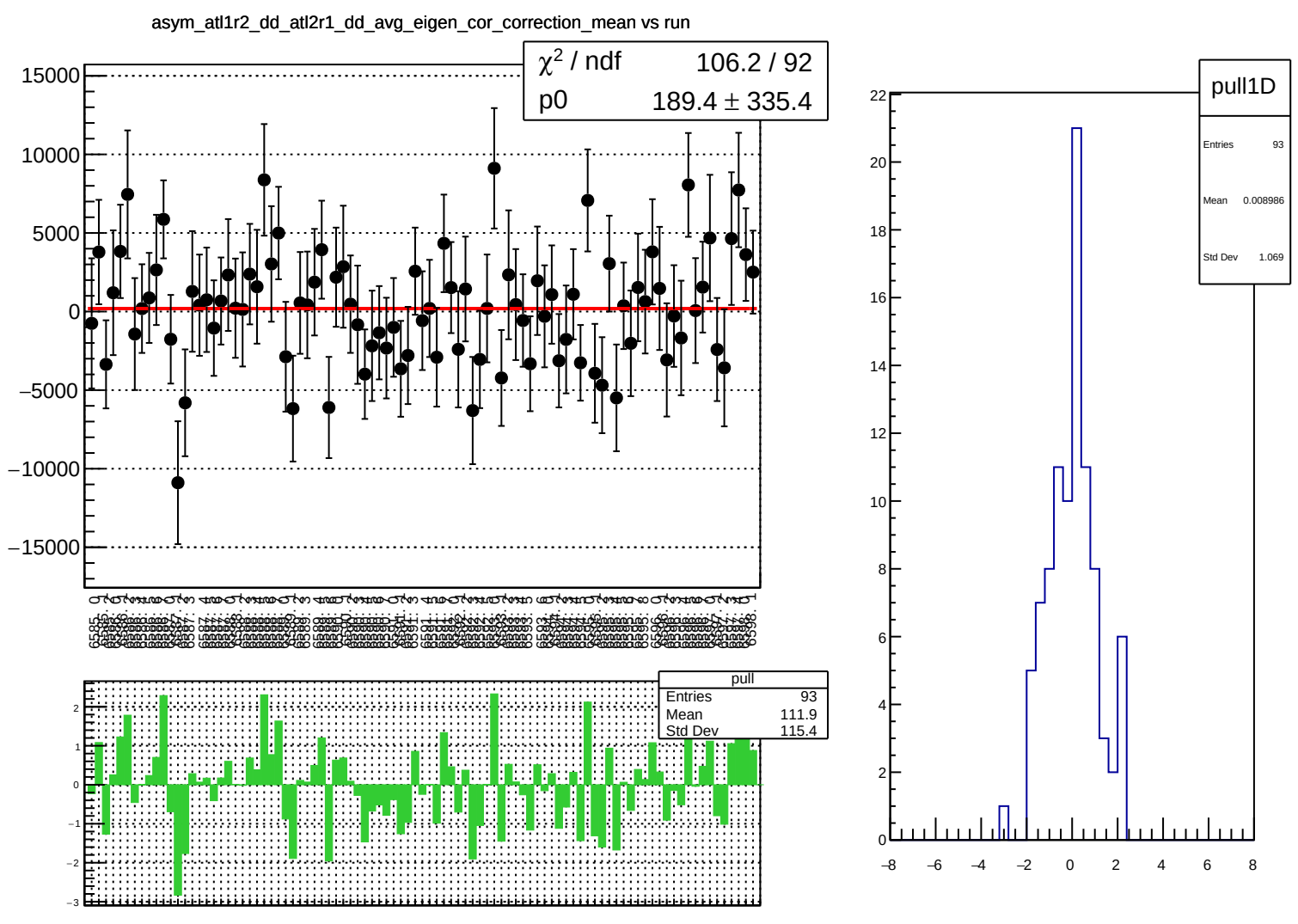
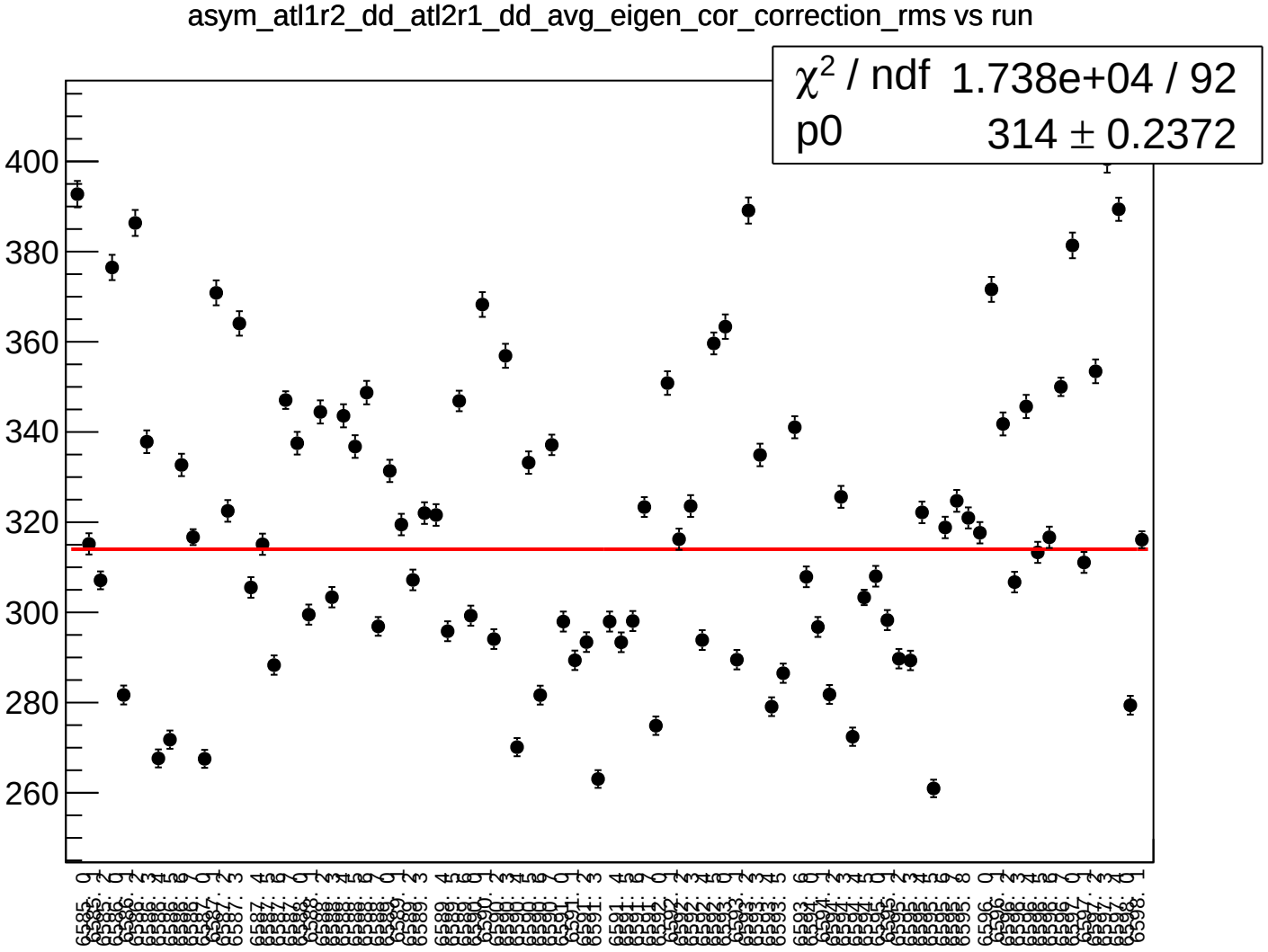
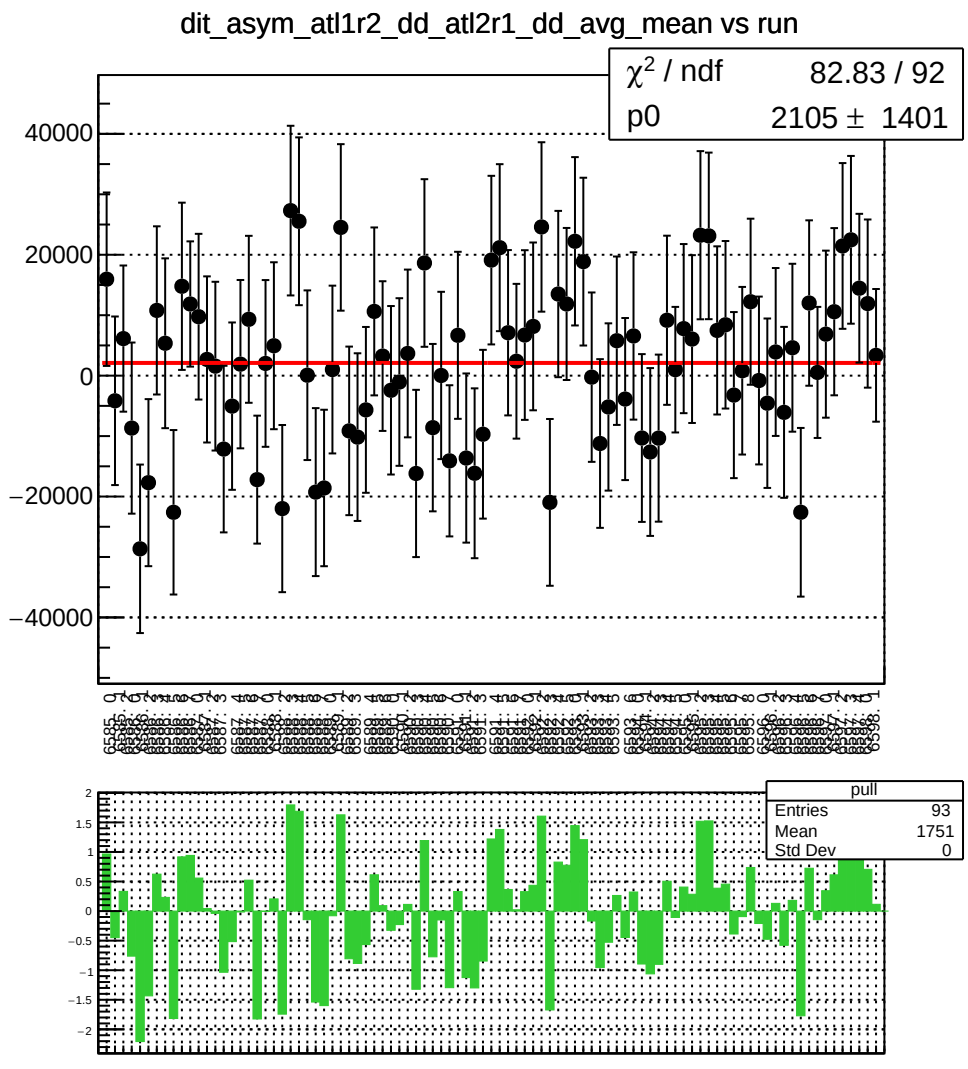
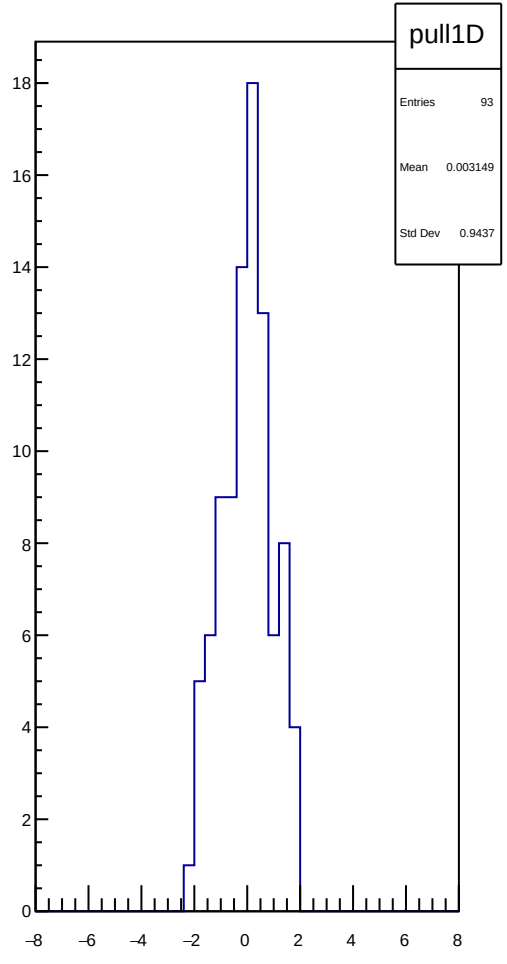
0
2
4
6
8

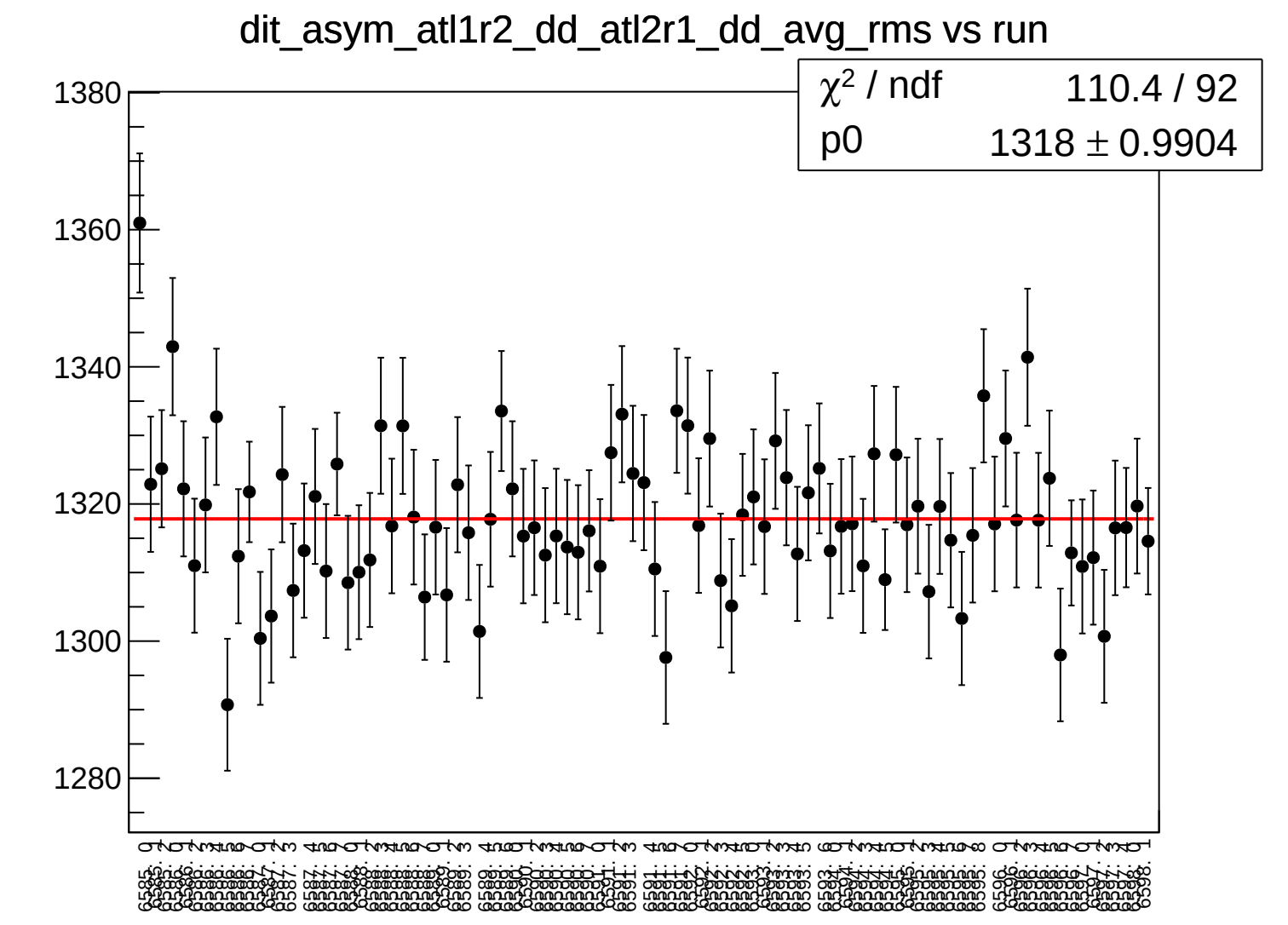

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 115.2 / 92
p0 1317 ± 0.9896
1380
1360
1340
1320
1300
1280

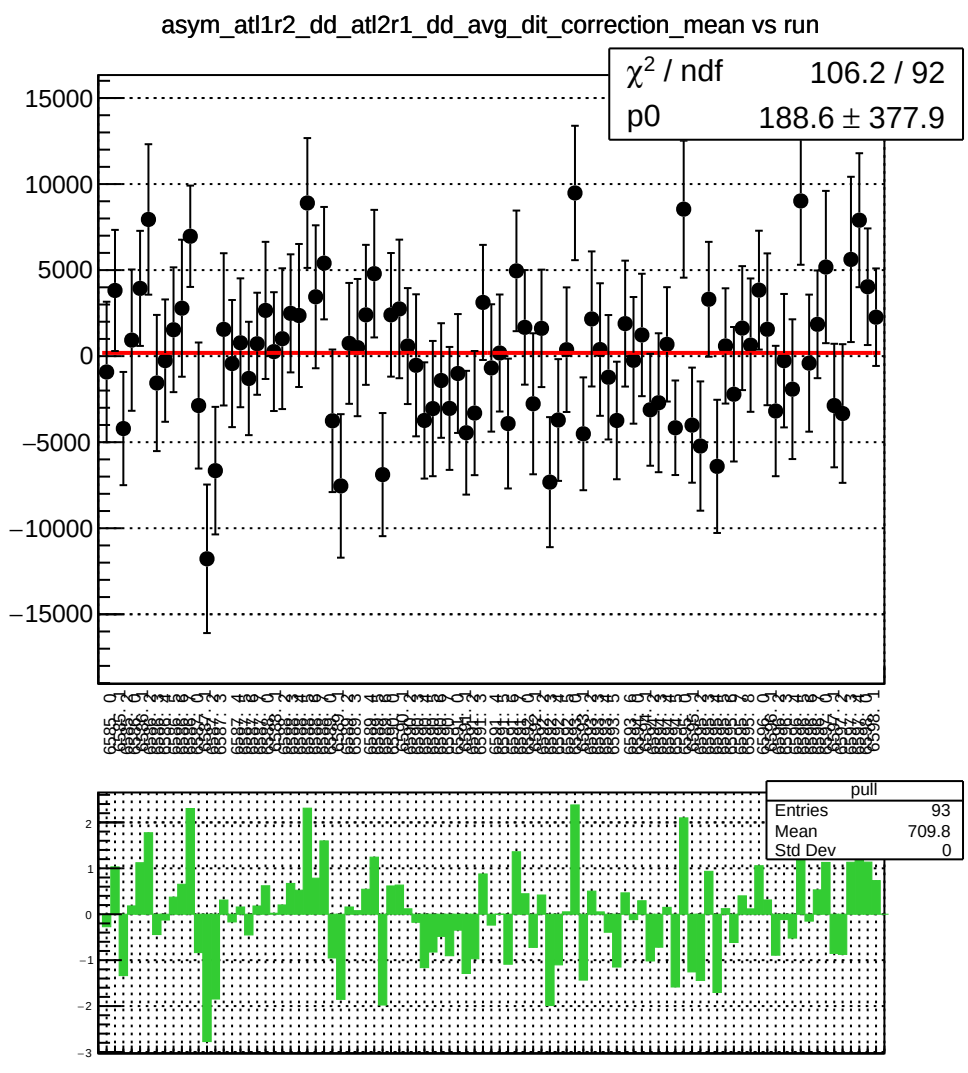

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 106.2 / 92
p0 189.4 ± 335.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 111.9
Std Dev 115.4
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.008986
Std Dev 1.069
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

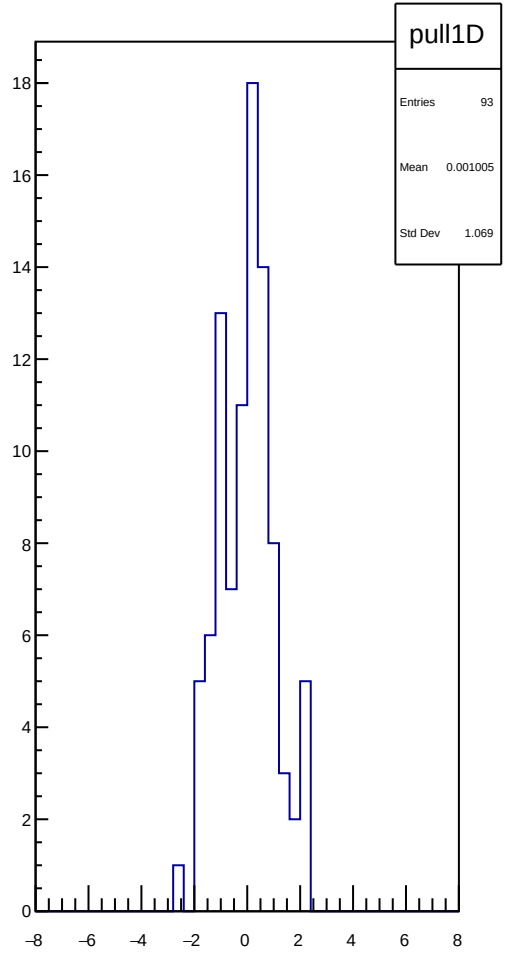

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.738e+04 / 92
p0 314 ± 0.2372
400
380
360
340
320
300
280
260

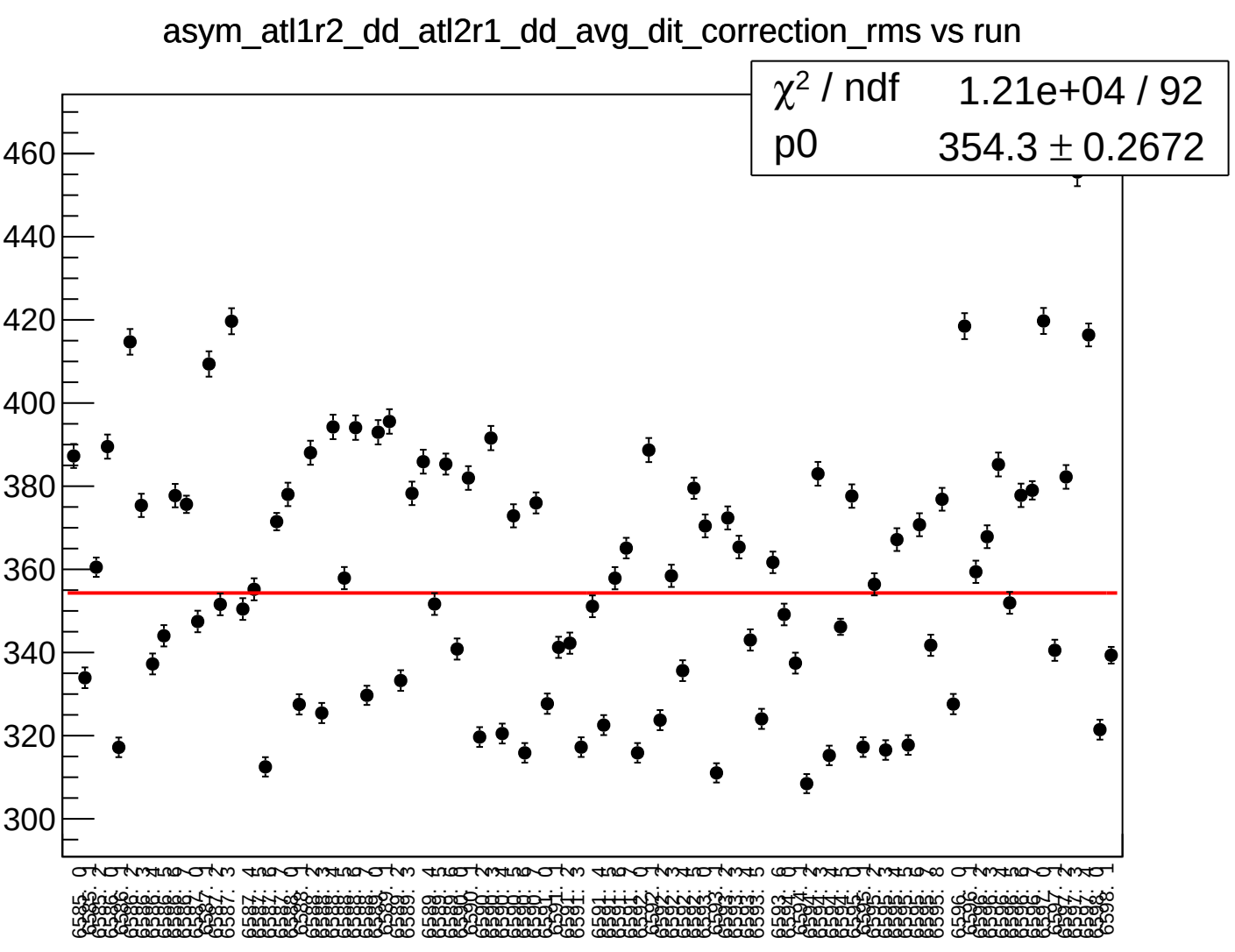

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.83 / 92
p0 2105 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1751
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

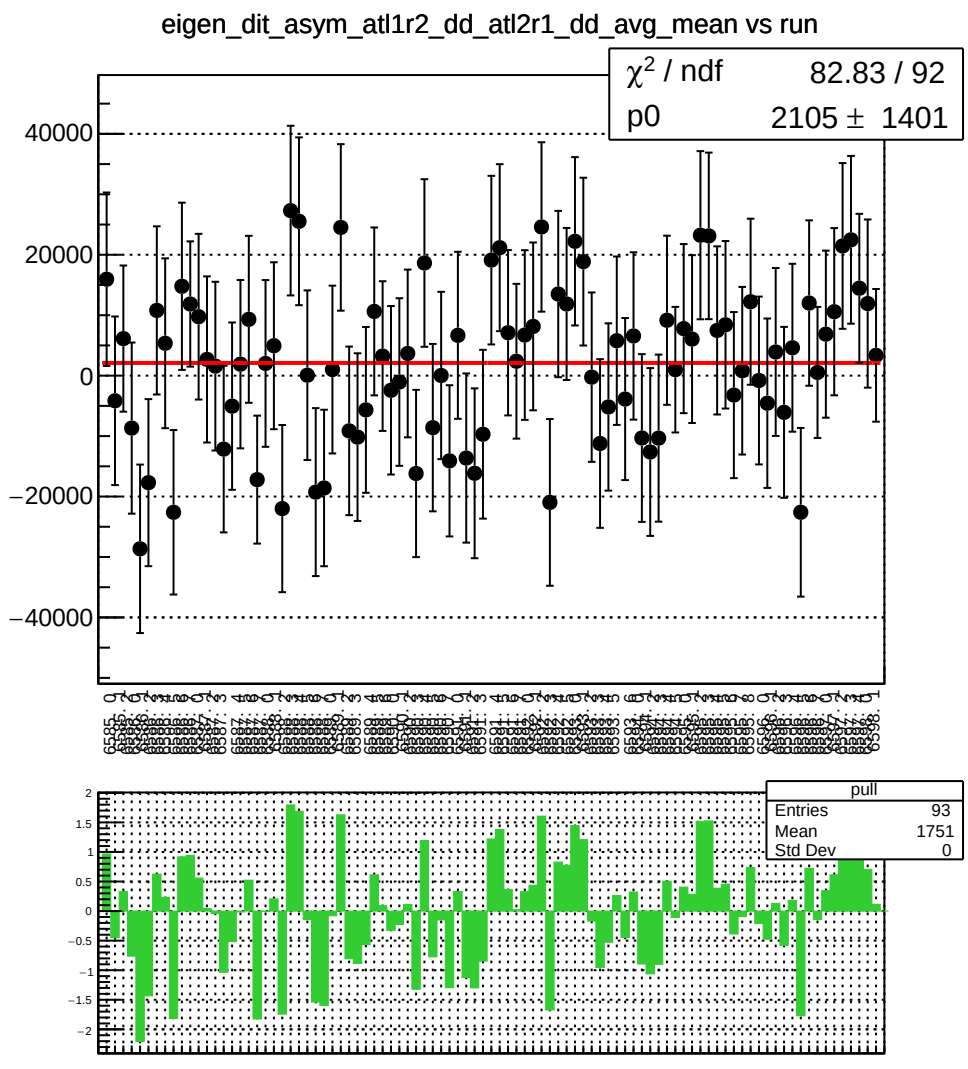

pull1D
Entries 93
Mean 0.003149
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

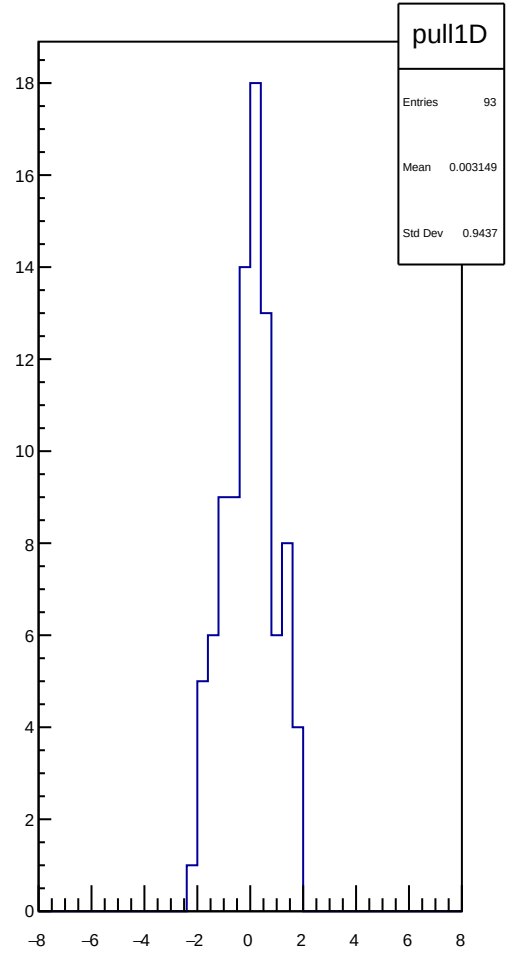

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 110.4 / 92
p0 1318 ± 0.9904
1380
1360
1340
1320
1300
1280

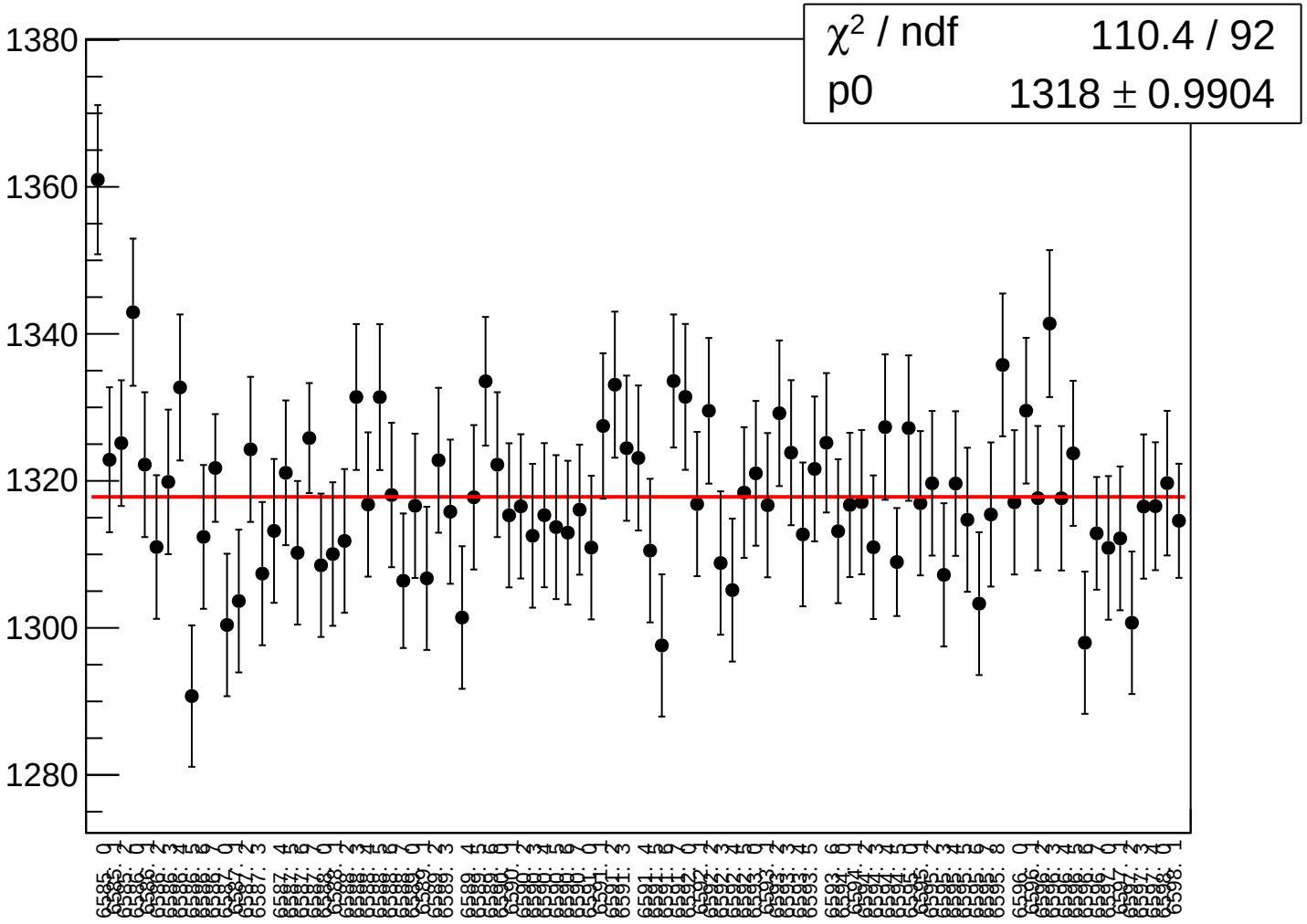

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 106.2 / 92
p0 188.6 ± 377.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 709.8
Std Dev 0
2
1
0
−1
−2
−3

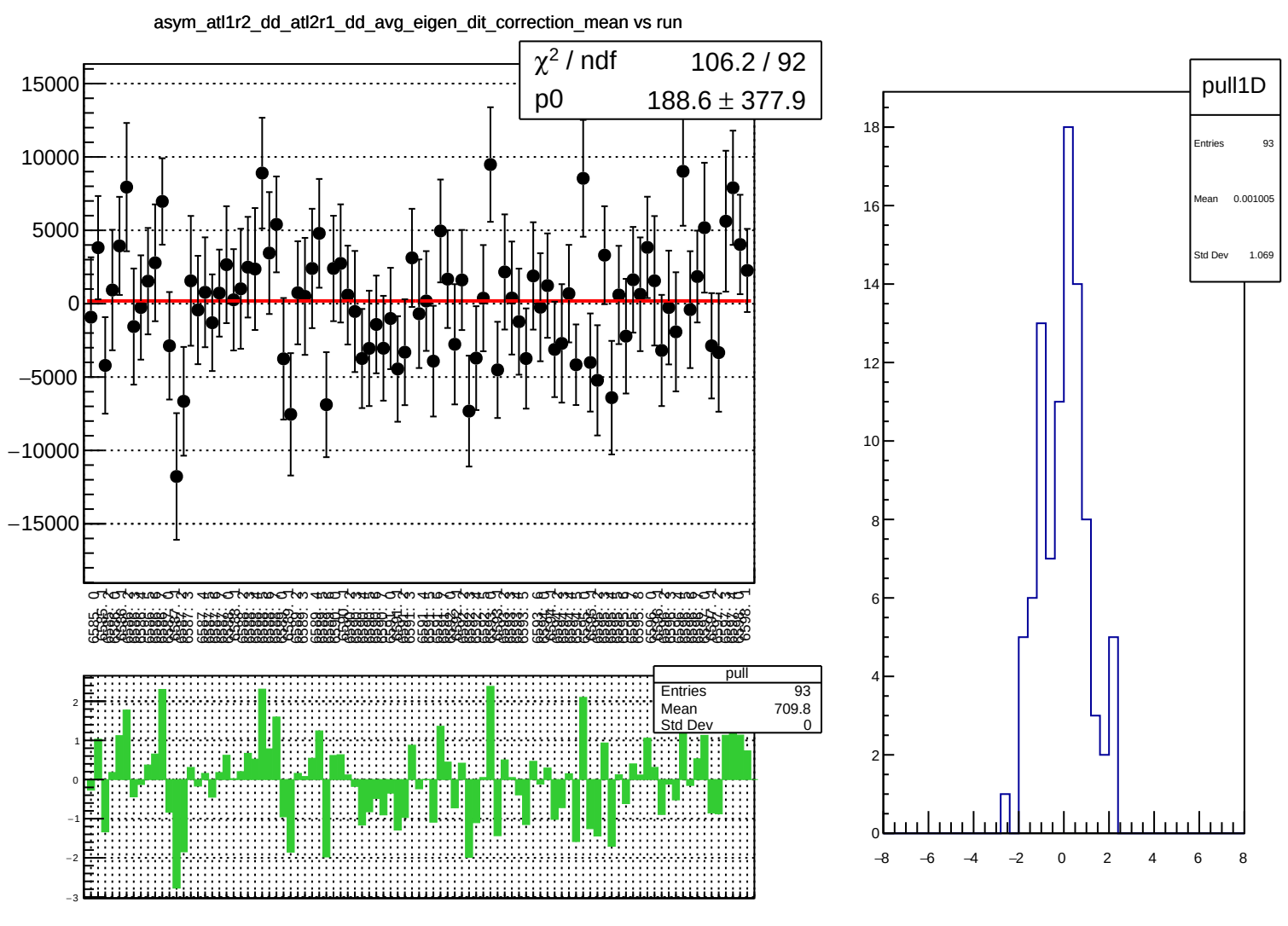

pull1D
Entries 93
Mean 0.001005
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

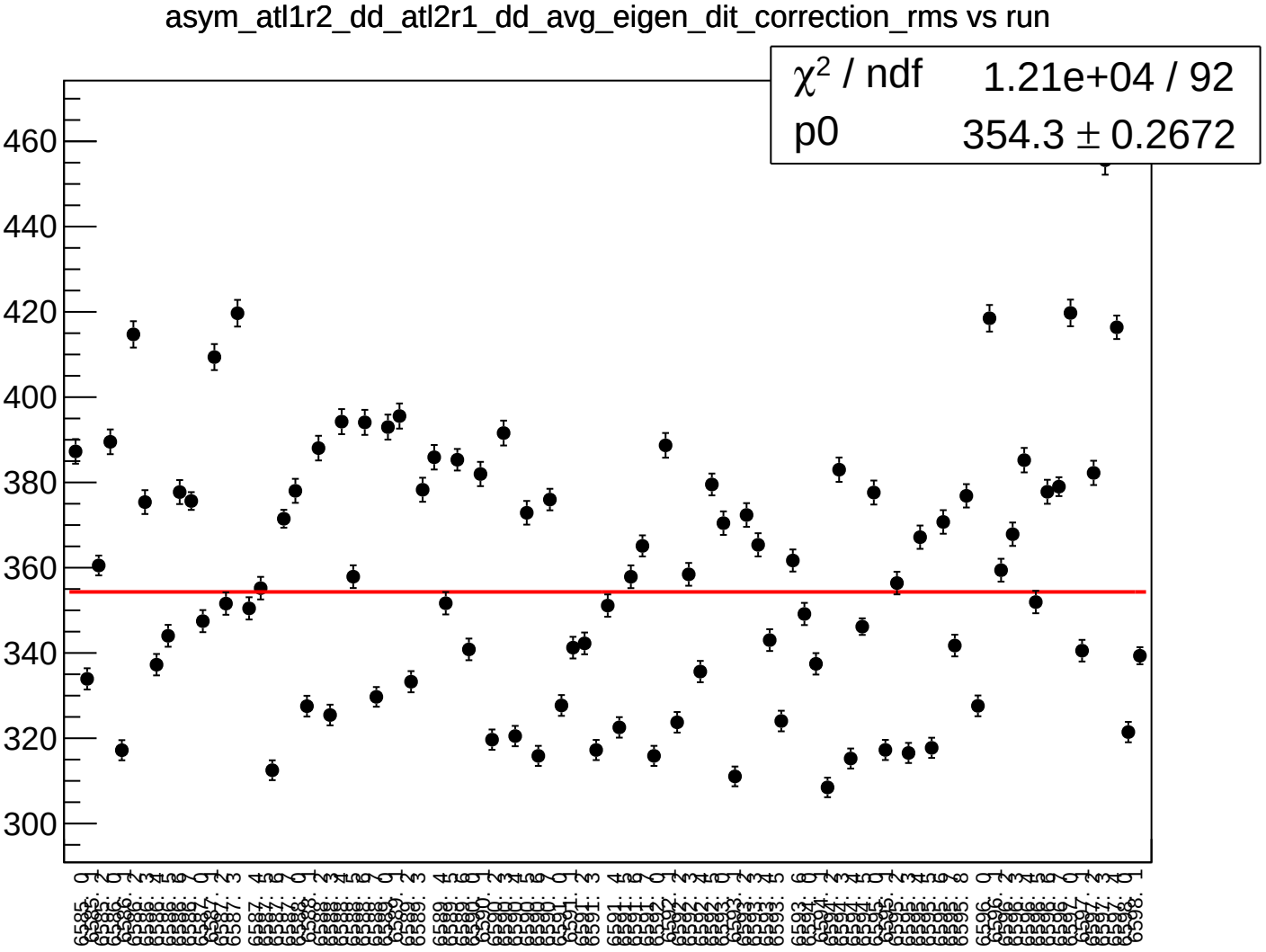

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 1.21e+04 / 92
p0 354.3 ± 0.2672
460
440
420
400
380
360
340
320
300

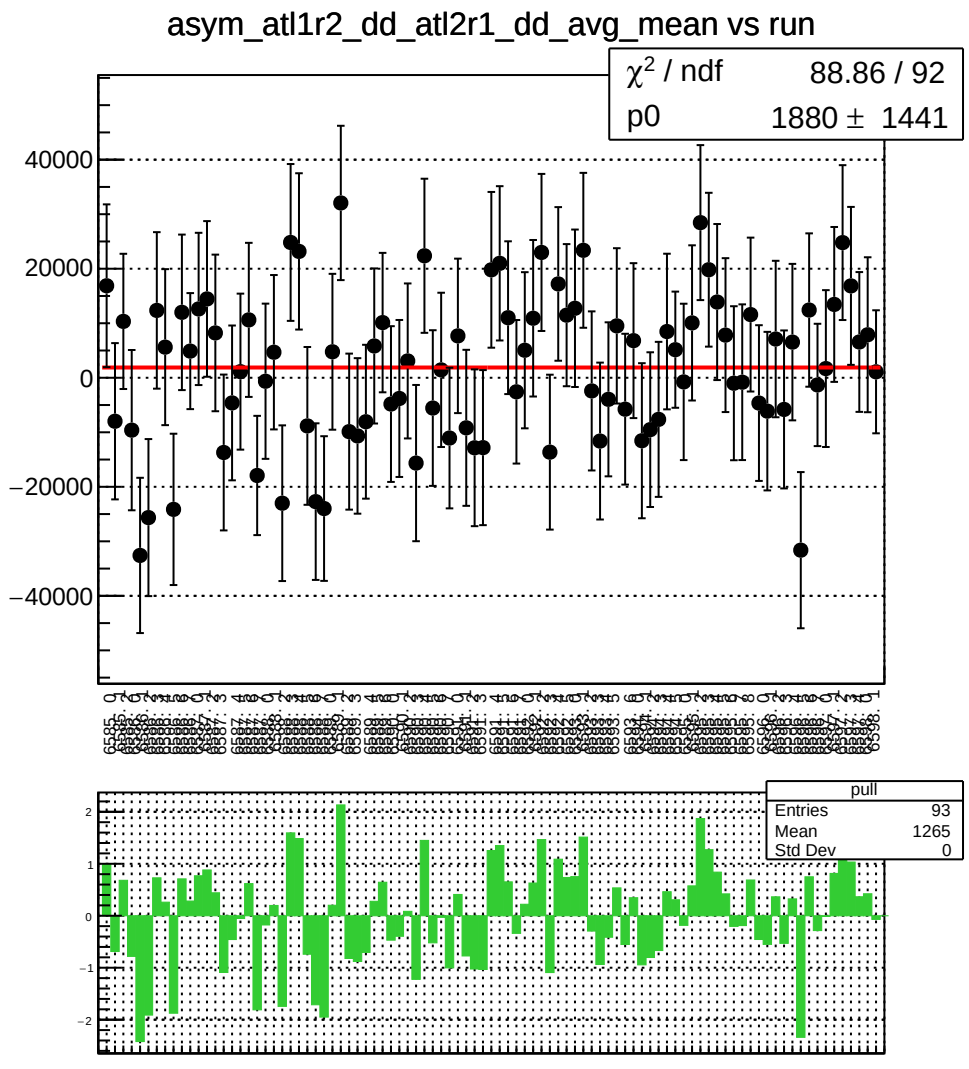

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 82.83 / 92
p0 2105 ± 1401
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1751
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

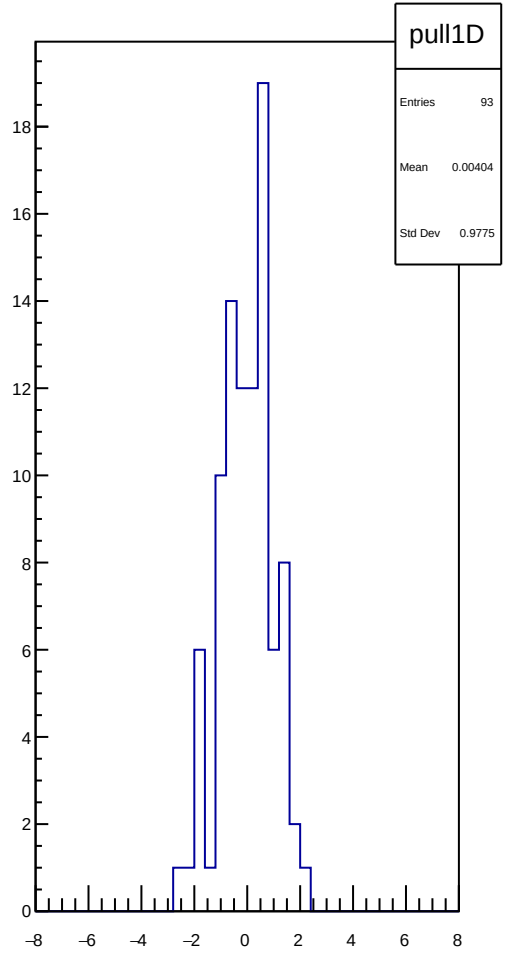

pull1D
Entries 93
Mean 0.003149
Std Dev 0.9437
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

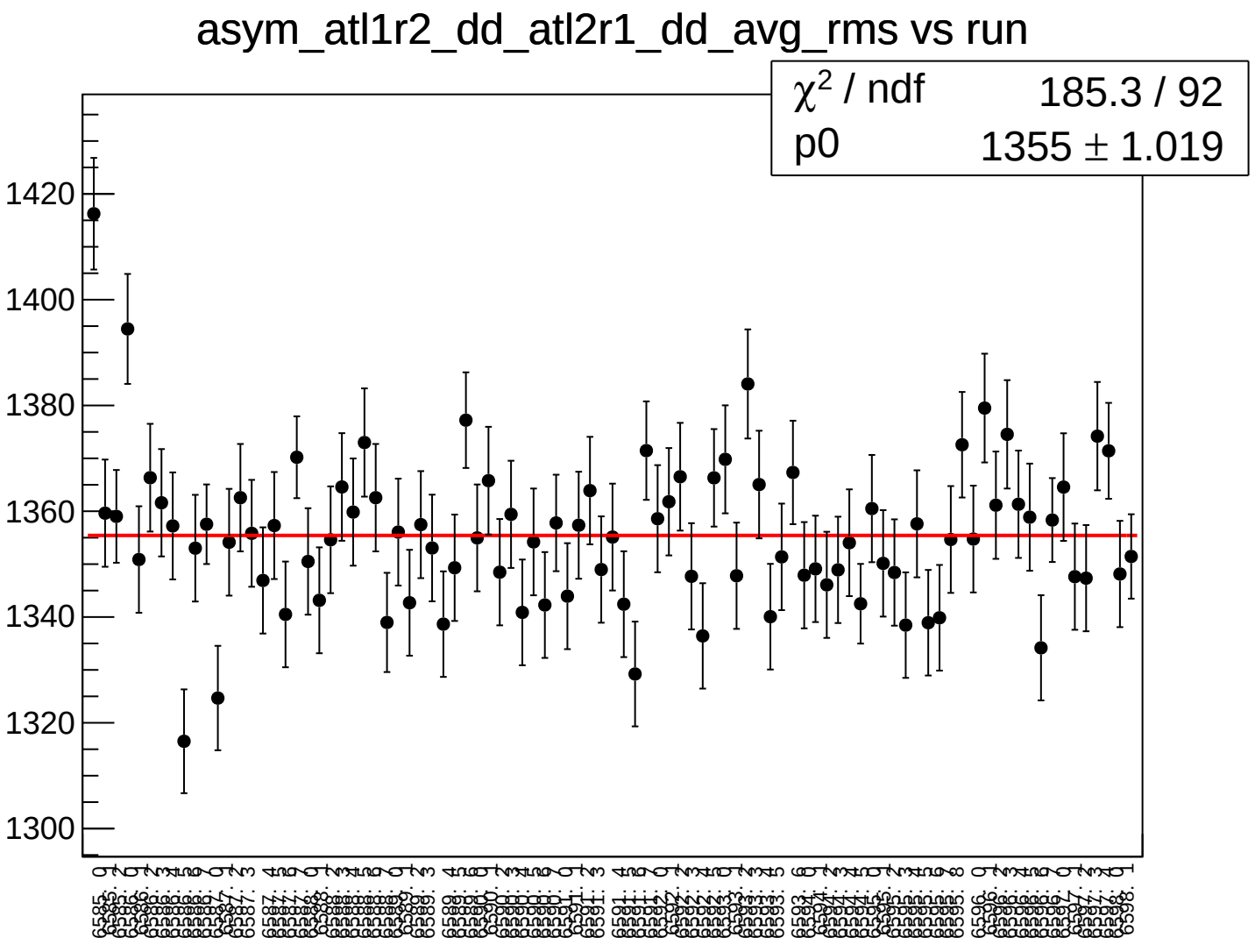

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 110.4 / 92
p0 1318 ± 0.9904
1380
1360
1340
1320
1300
1280

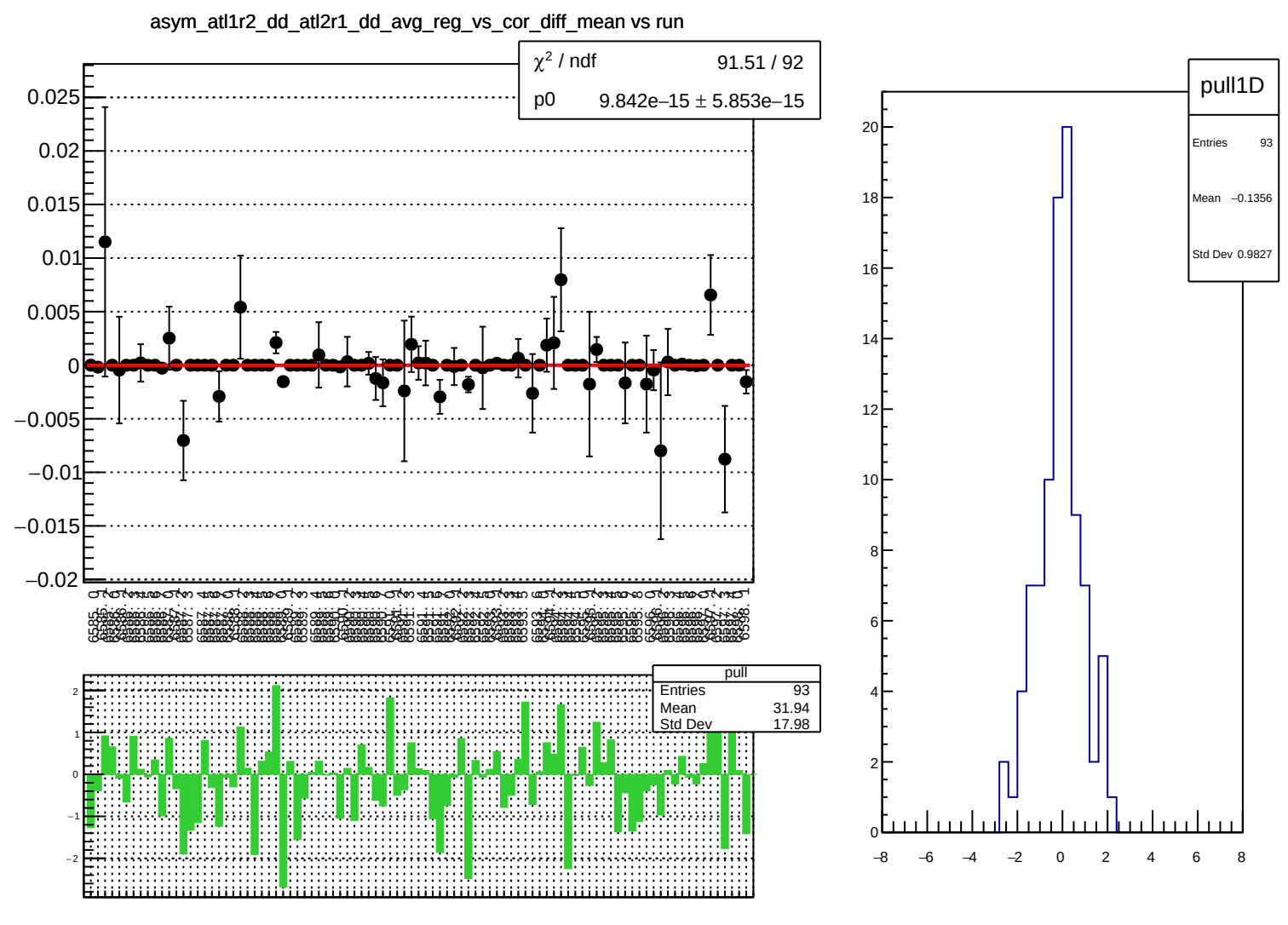

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 106.2 / 92
p0 188.6 ± 377.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 709.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.001005
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

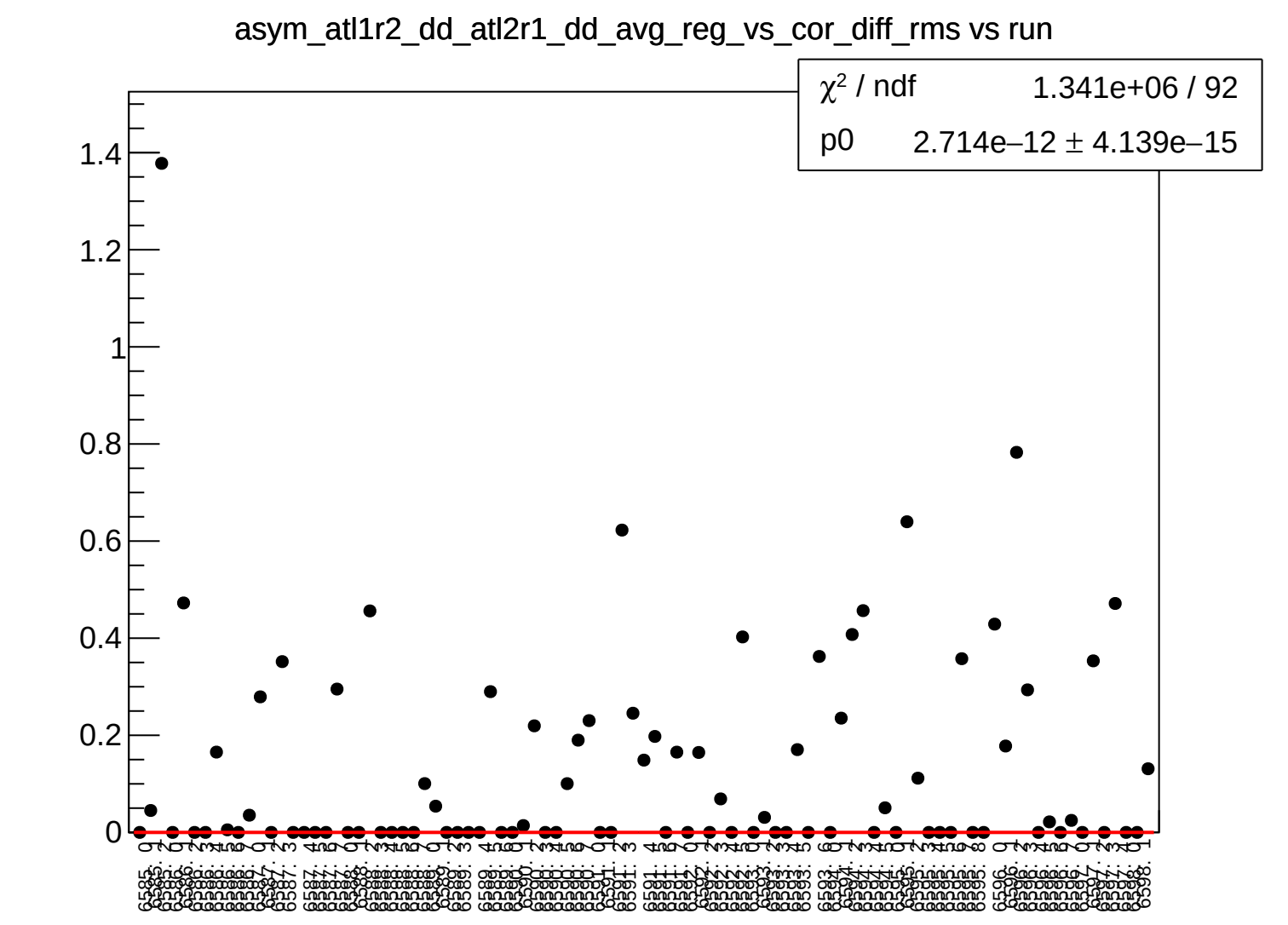

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.21e+04 / 92
p0 354.3 ± 0.2672
460
440
420
400
380
360
340
320
300


asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.86 / 92
p0 1880 ± 1441
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1265
Std Dev 0
2
1
0
−1
−2

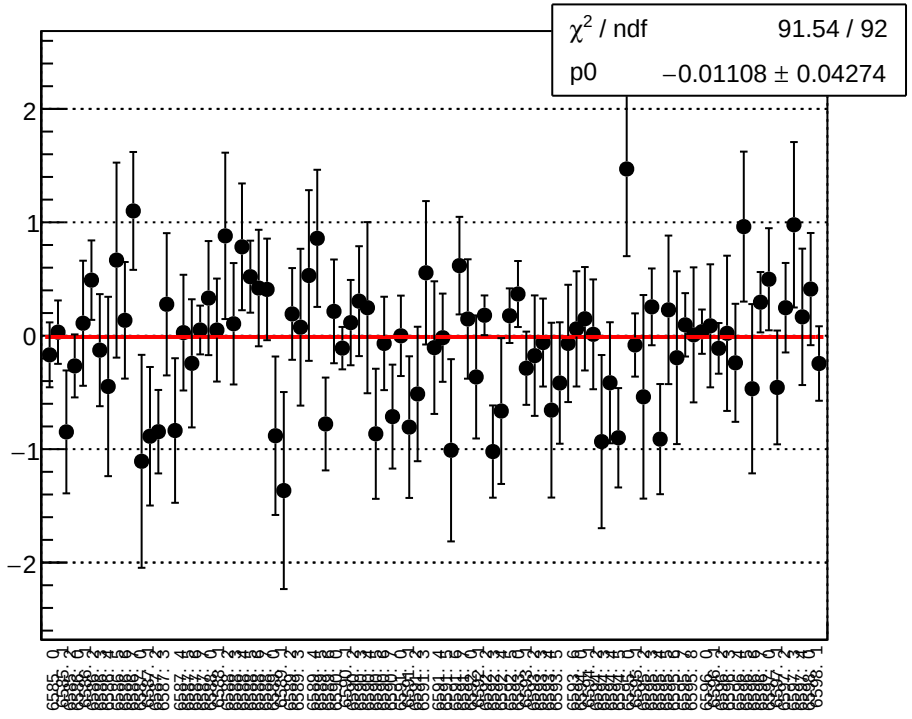

pull1D
Entries 93
Mean 0.00404
Std Dev 0.9775
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

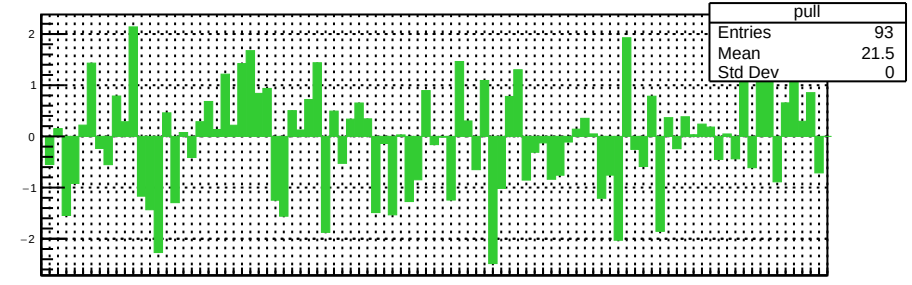

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 185.3 / 92
p0 1355 ± 1.019
1420
1400
1380
1360
1340
1320
1300

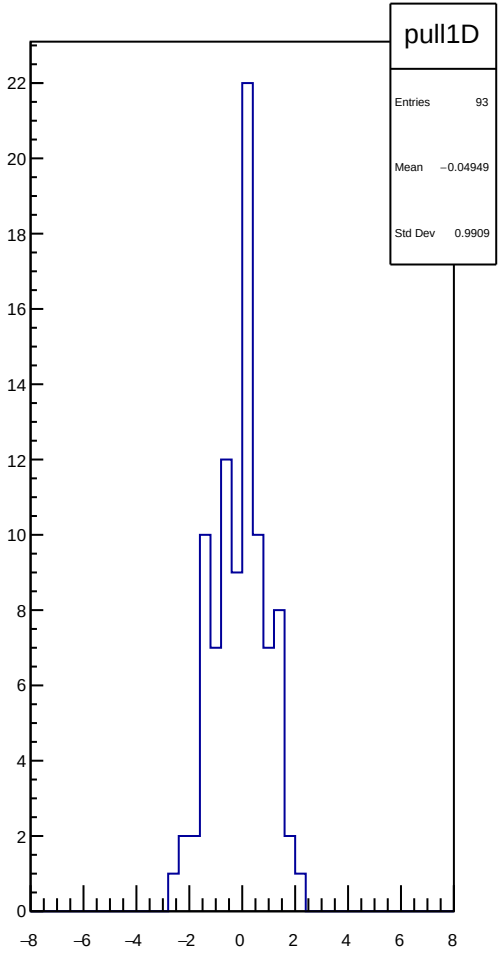

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.51 / 92
p0 9.842e−15 ± 5.853e−15
pull
Entries 93
Mean 31.94
Std Dev 17.98
pull1D
Entries 93
Mean −0.1356
Std Dev 0.9827

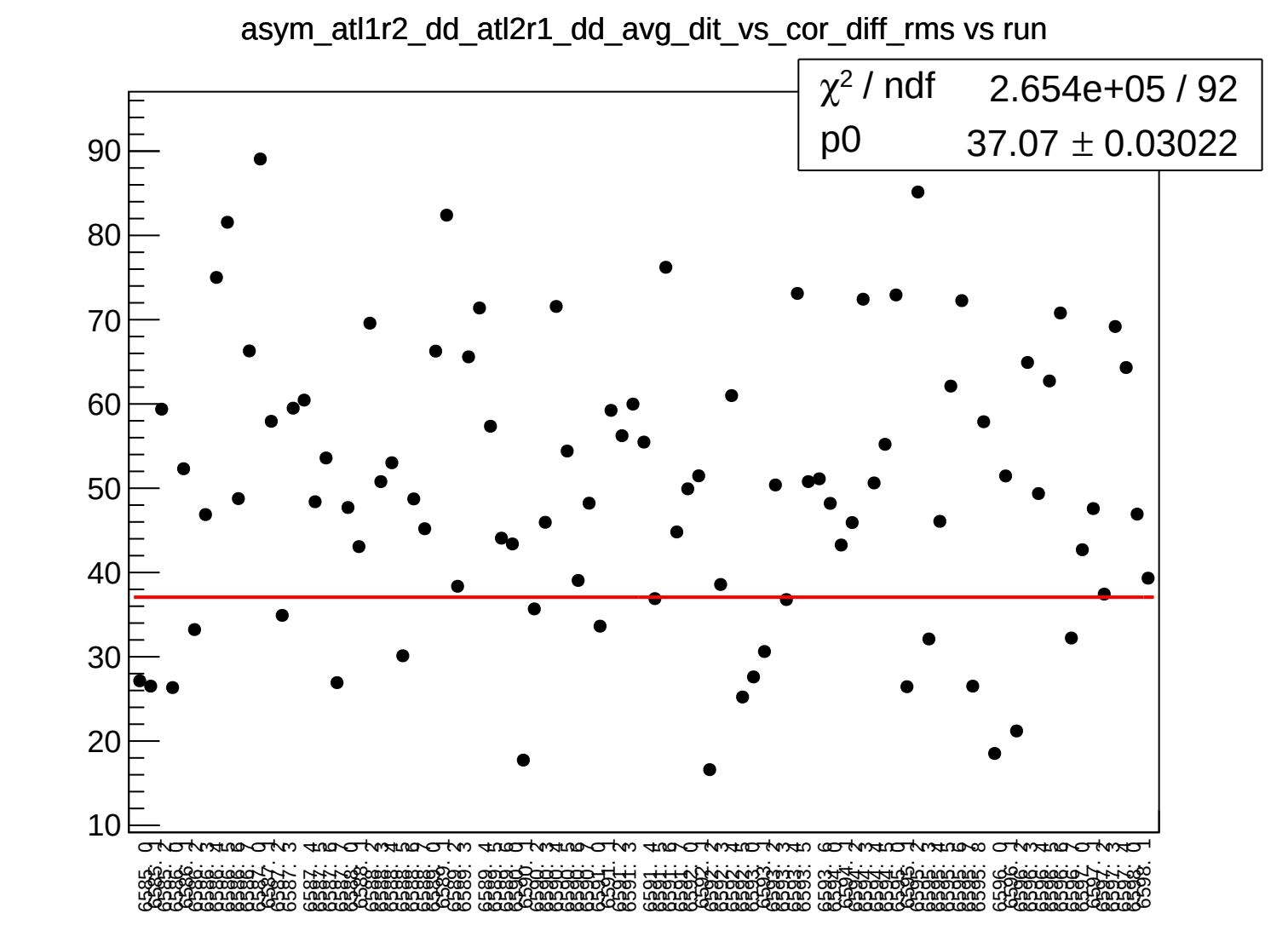

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.341e+06 / 92
p0 2.714e−12 ± 4.139e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

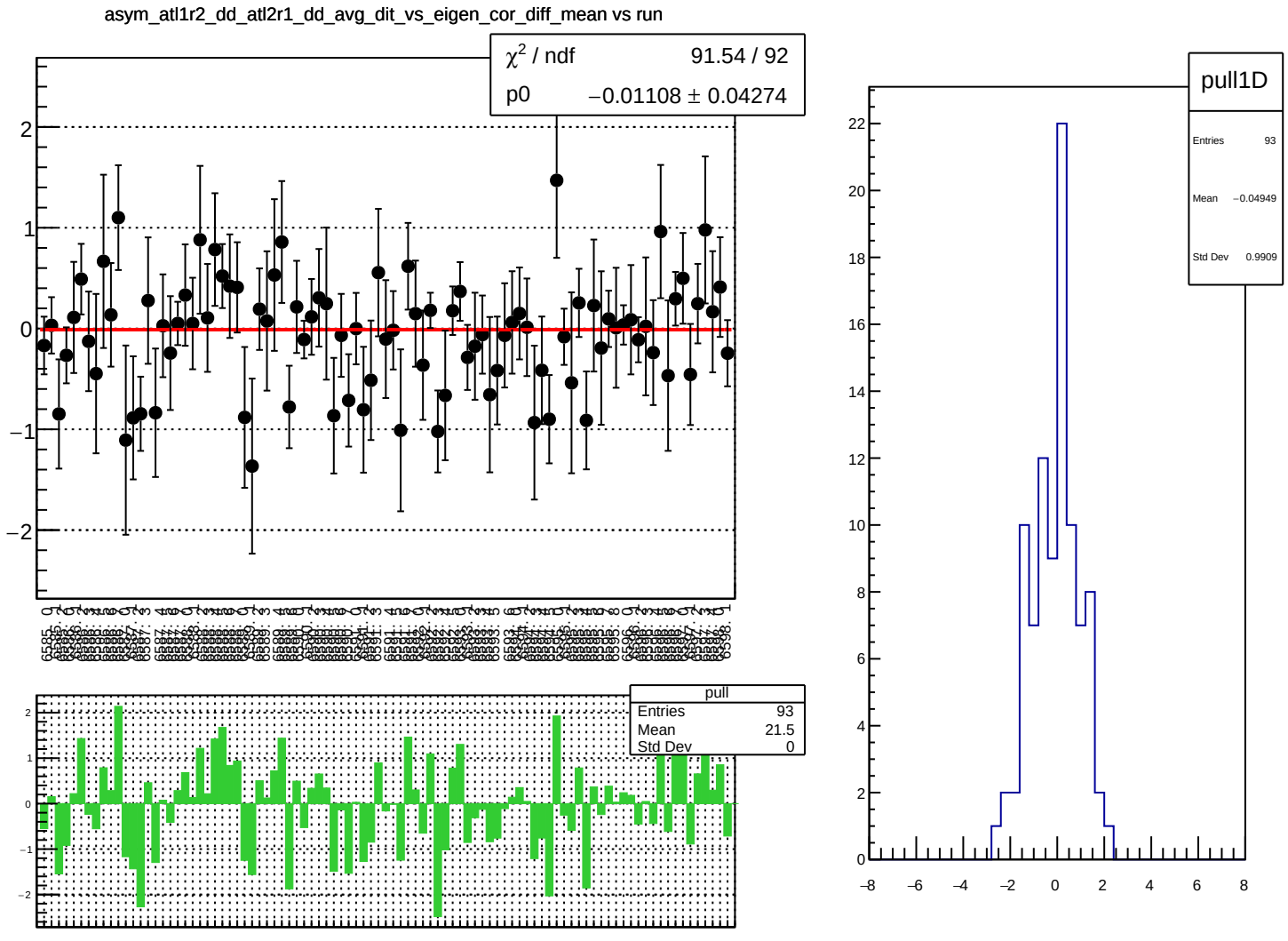
asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run

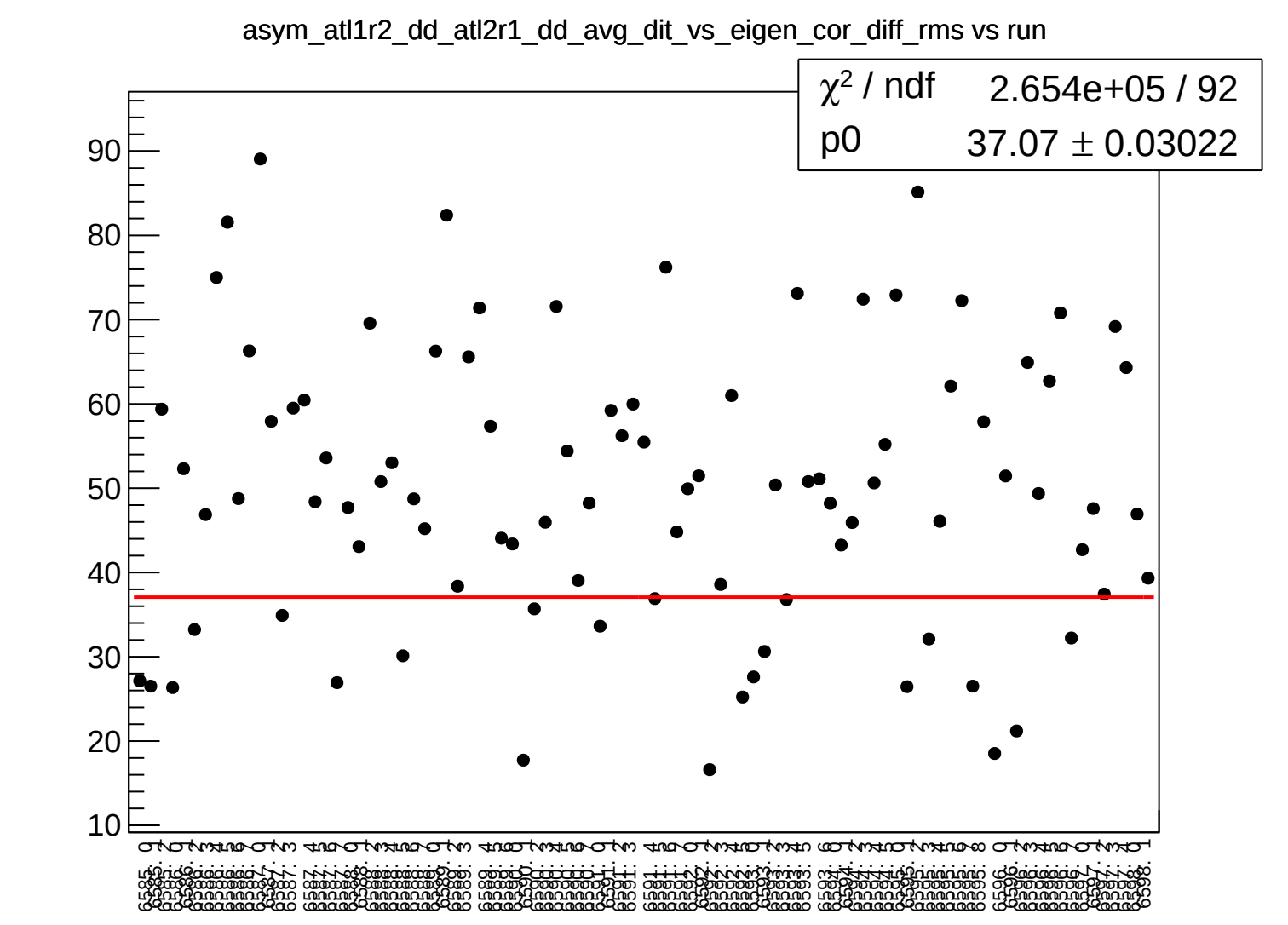


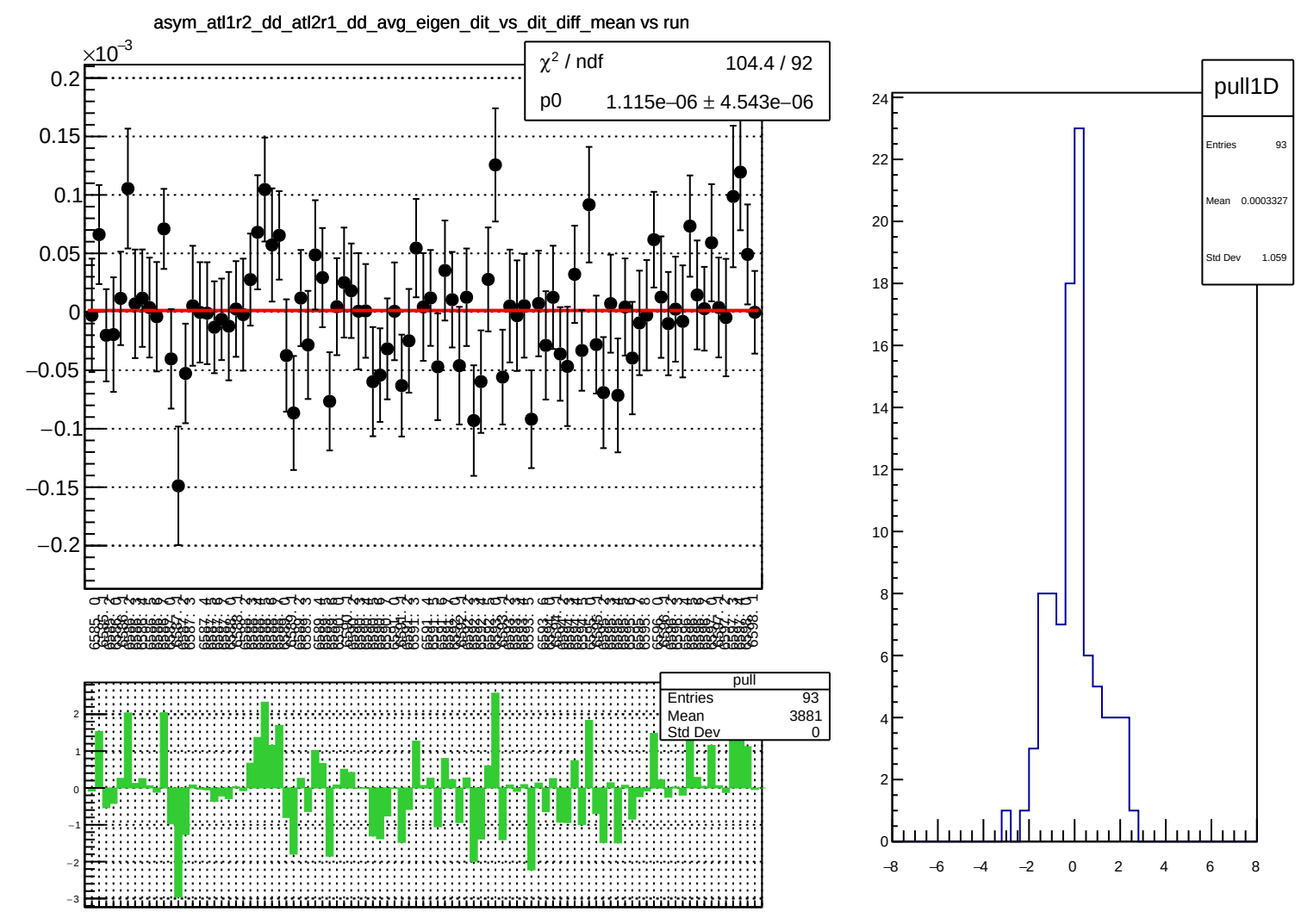


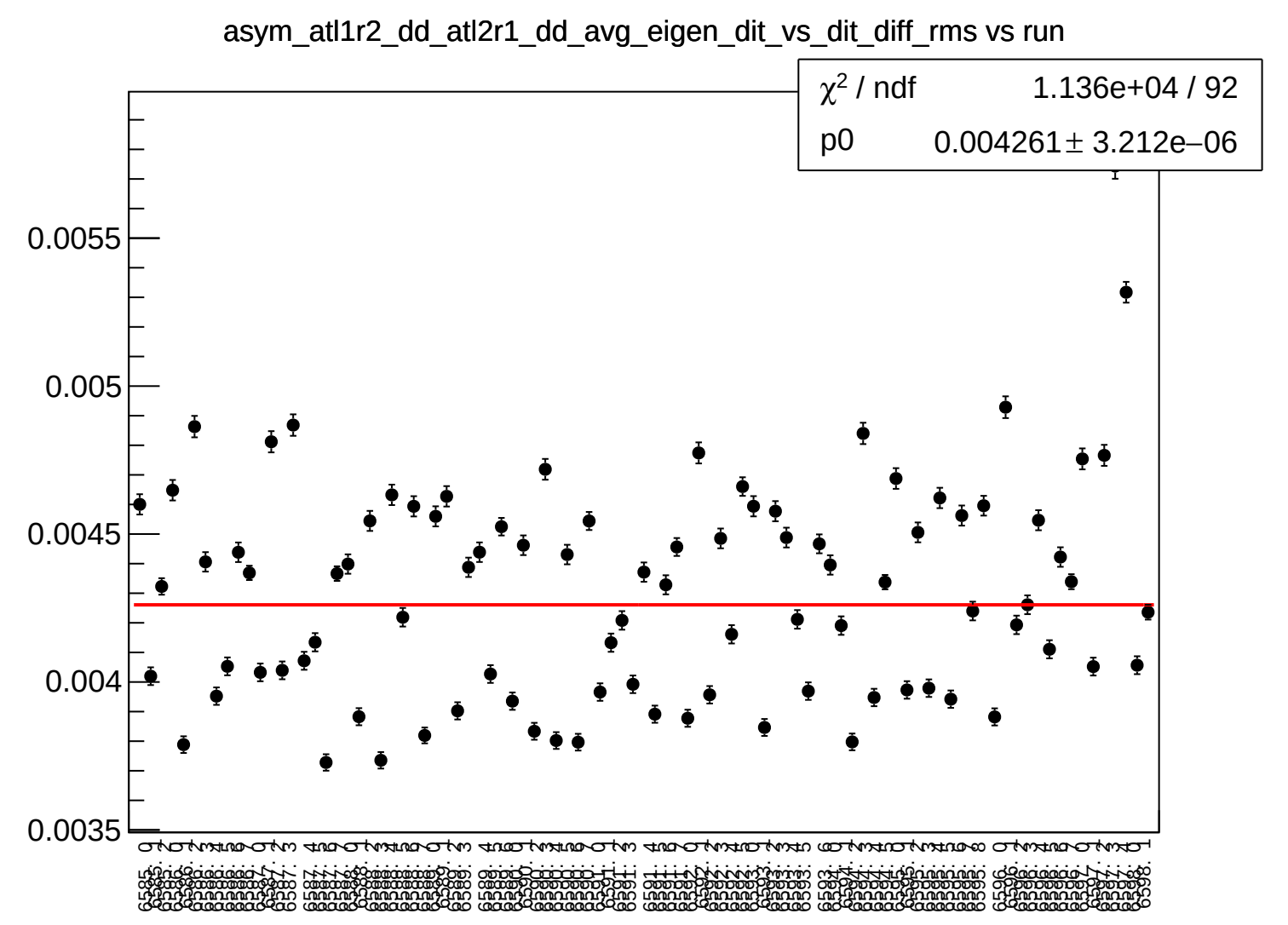


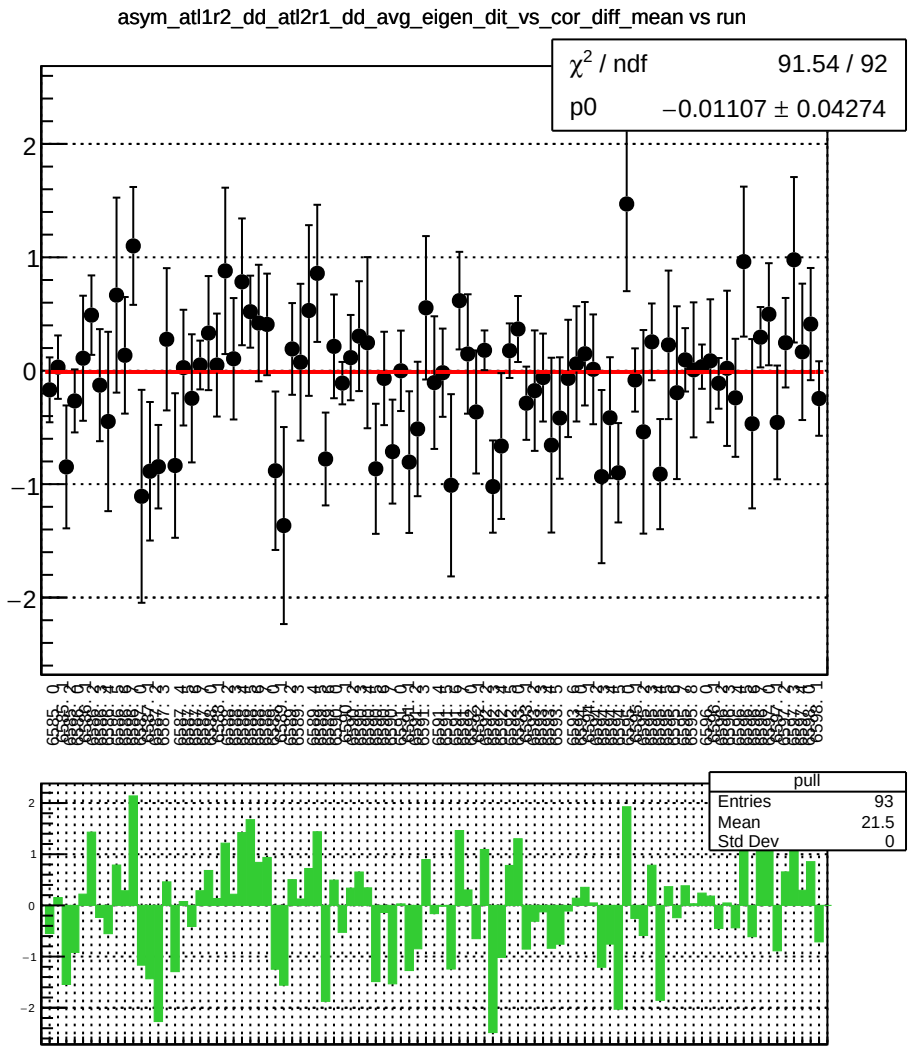

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 92
p0 37.07 ± 0.03022
90
80
70
60
50
40
30
20
10

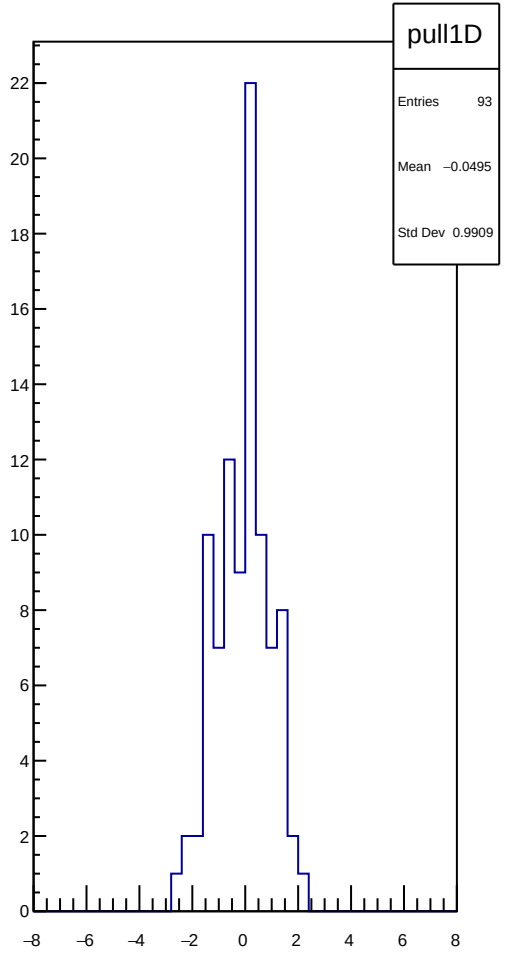

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.54 / 92
p0 −0.01108 ± 0.04274
pull
Entries 93
Mean 21.5
Std Dev 0
pull1D
Entries 93
Mean −0.04949
Std Dev 0.9909

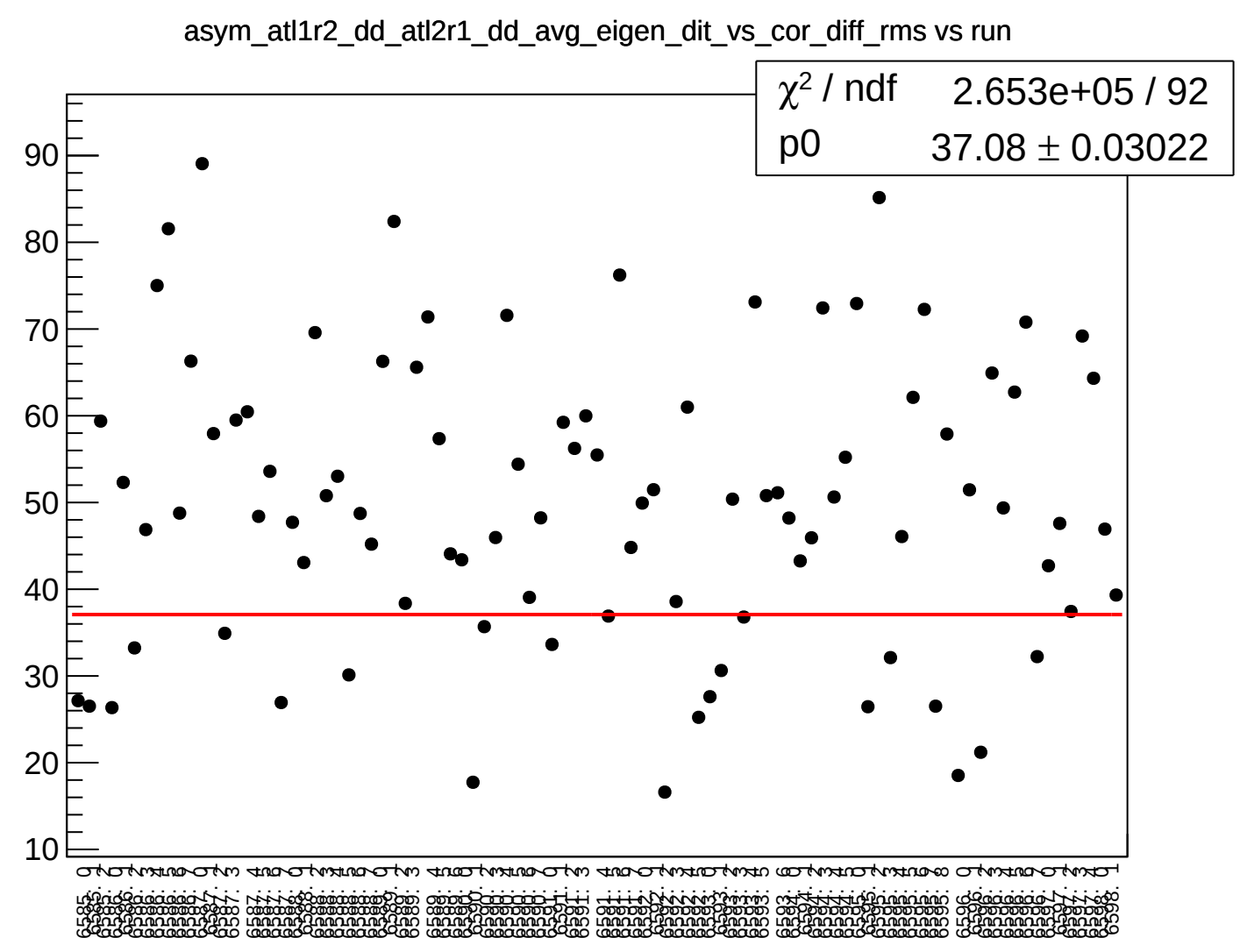

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.654e+05 / 92
p0 37.07 ± 0.03022
90
80
70
60
50
40
30
20
10

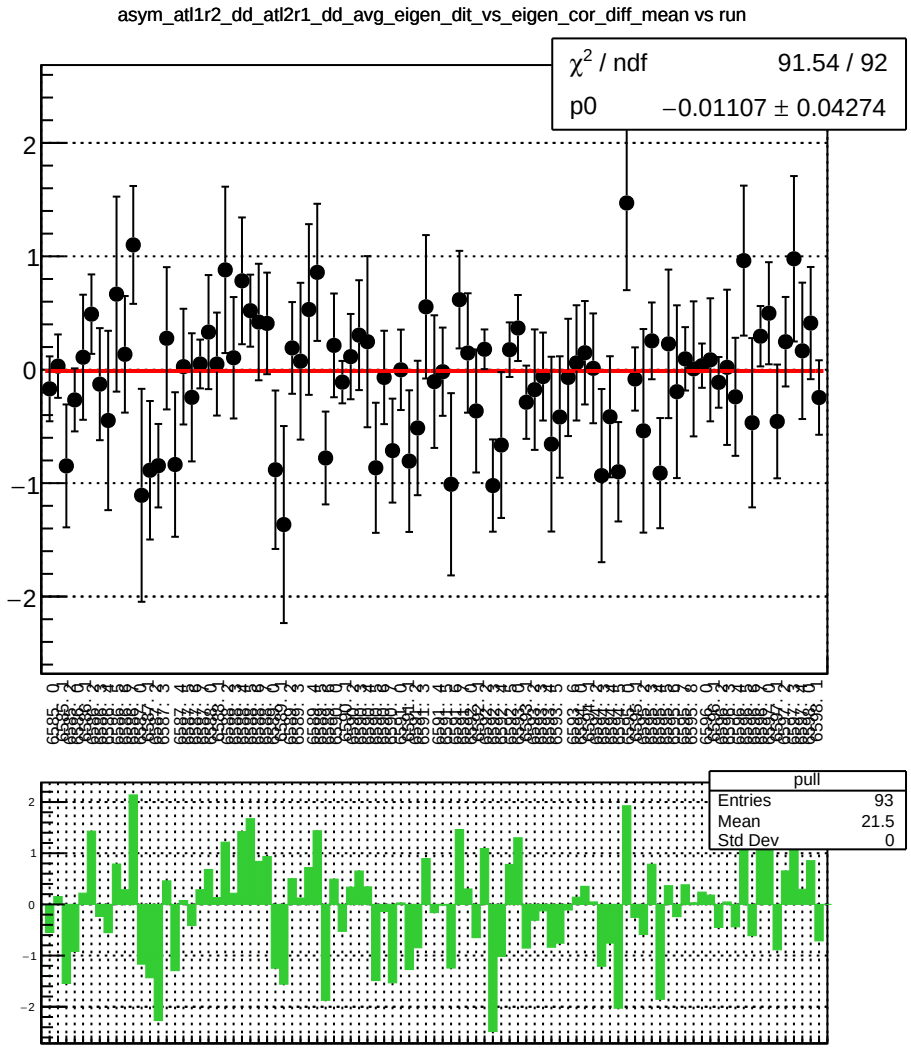

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.4 / 92
p0 1.115e−06 ± 4.543e−06
pull
Entries 93
Mean 3881
Std Dev 0
pull1D
Entries 93
Mean 0.0003327
Std Dev 1.059

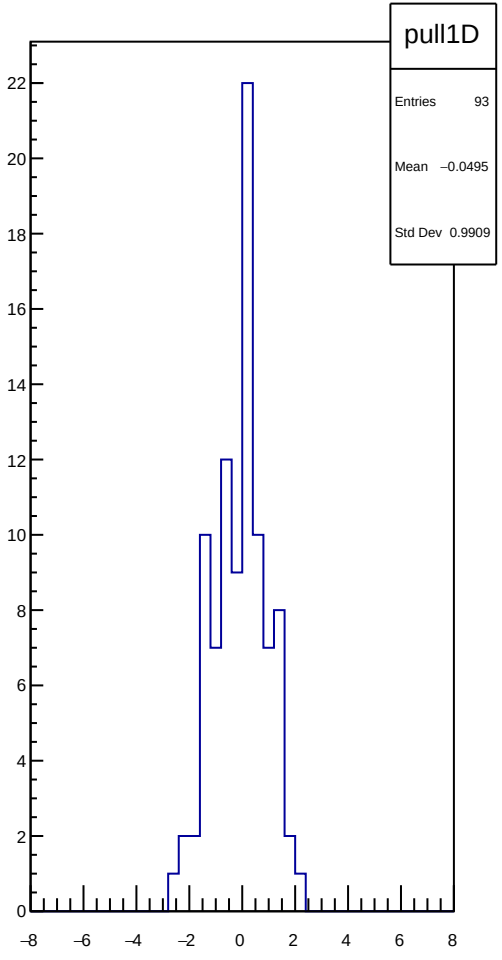

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.136e+04 / 92
p0 0.004261 ± 3.212e−06
0.0055
0.005
0.0045
0.004
0.0035

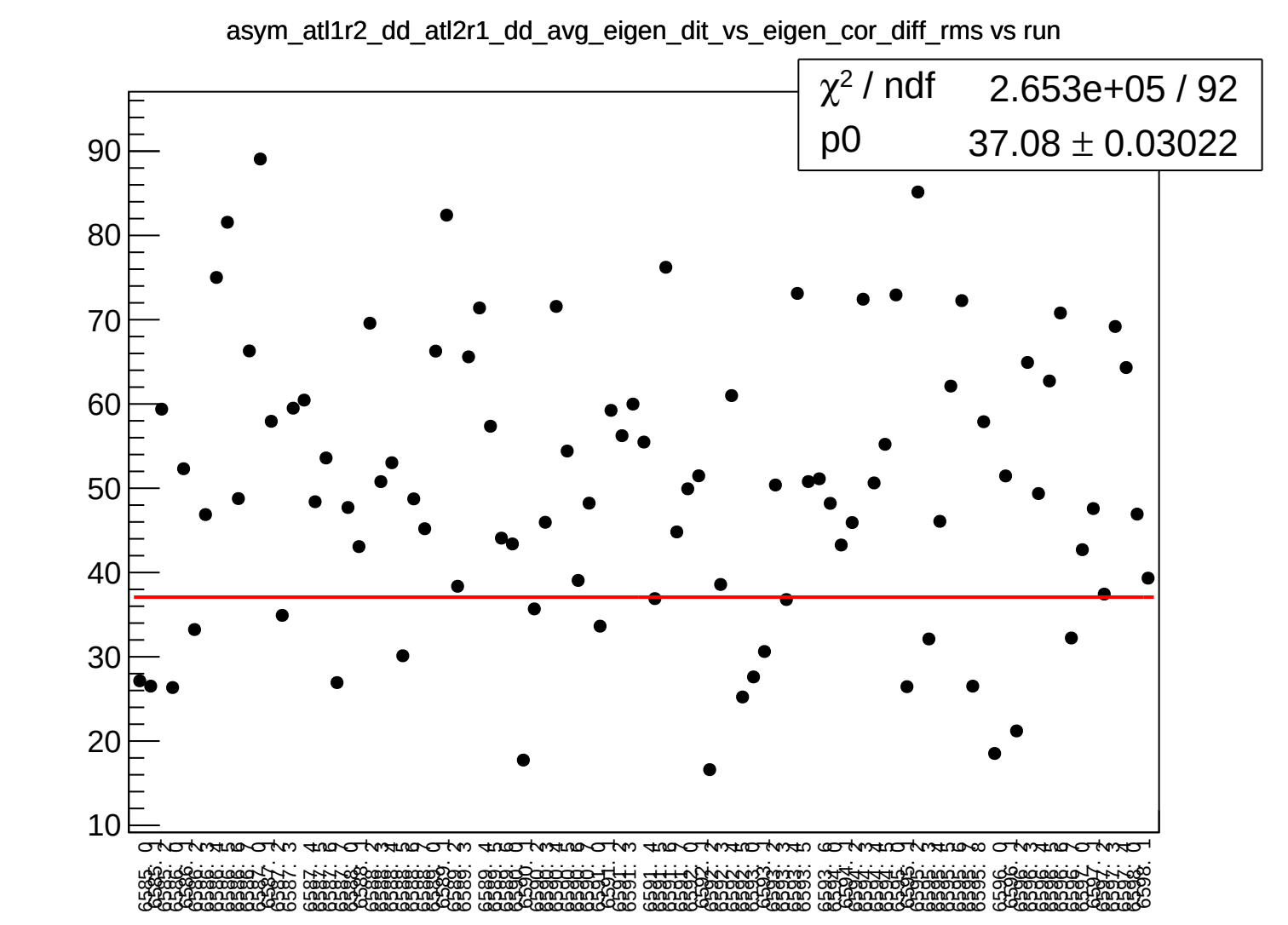

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.54 / 92
p0 −0.01107 ± 0.04274
pull
Entries 93
Mean 21.5
Std Dev 0

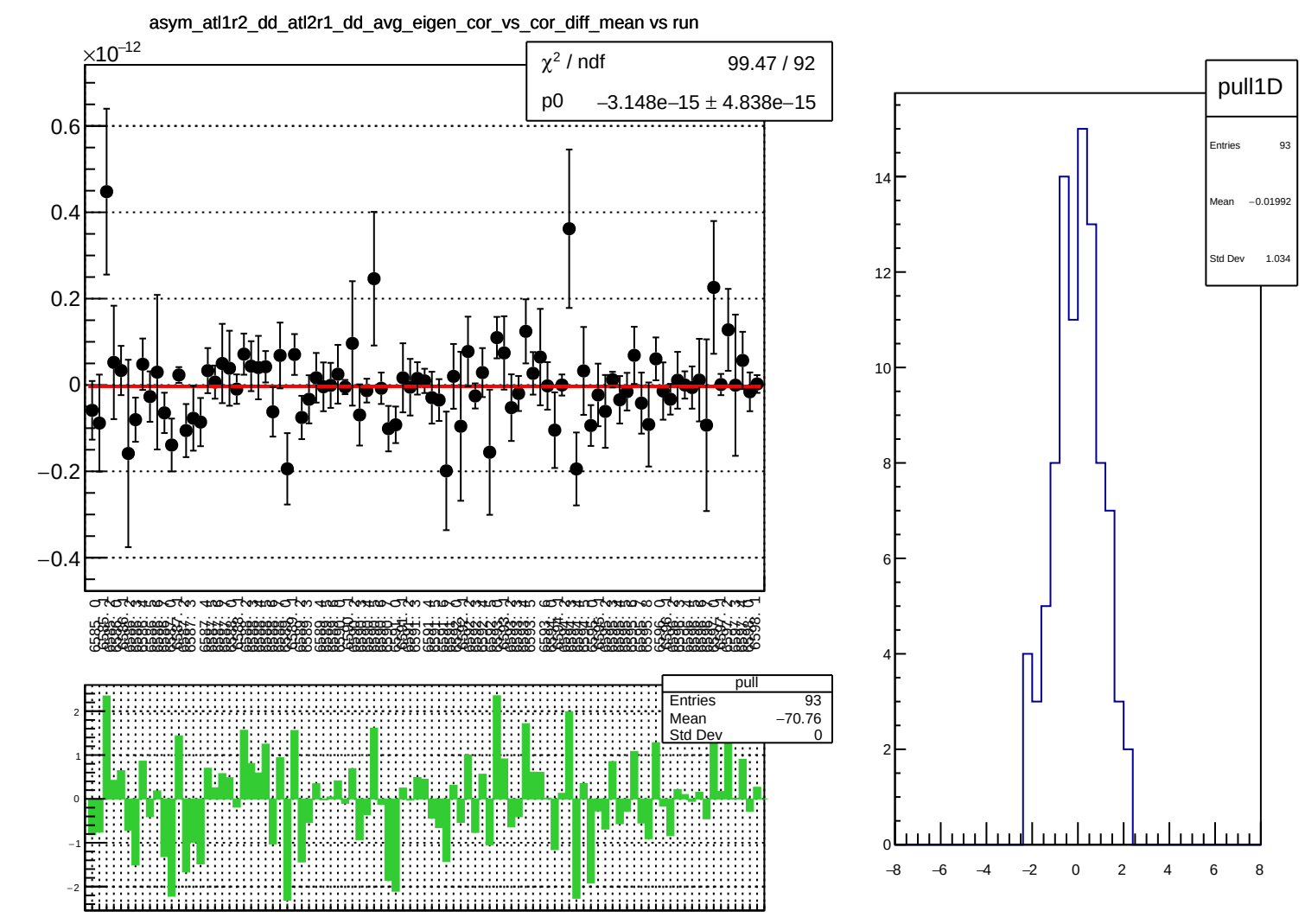

pull1D
Entries 93
Mean −0.0495
Std Dev 0.9909

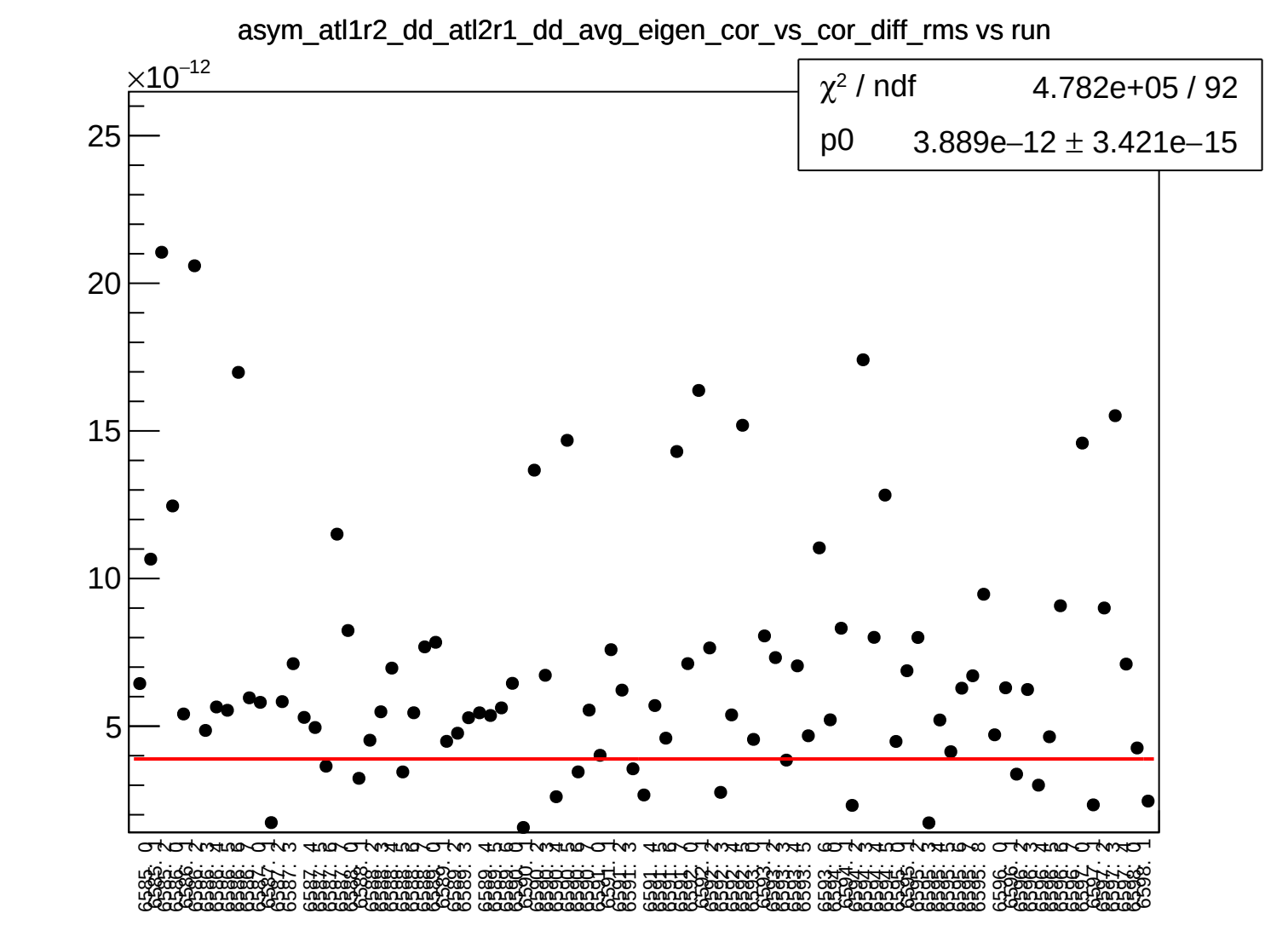

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.653e+05 / 92
p0 37.08 ± 0.03022
90
80
70
60
50
40
30
20
10

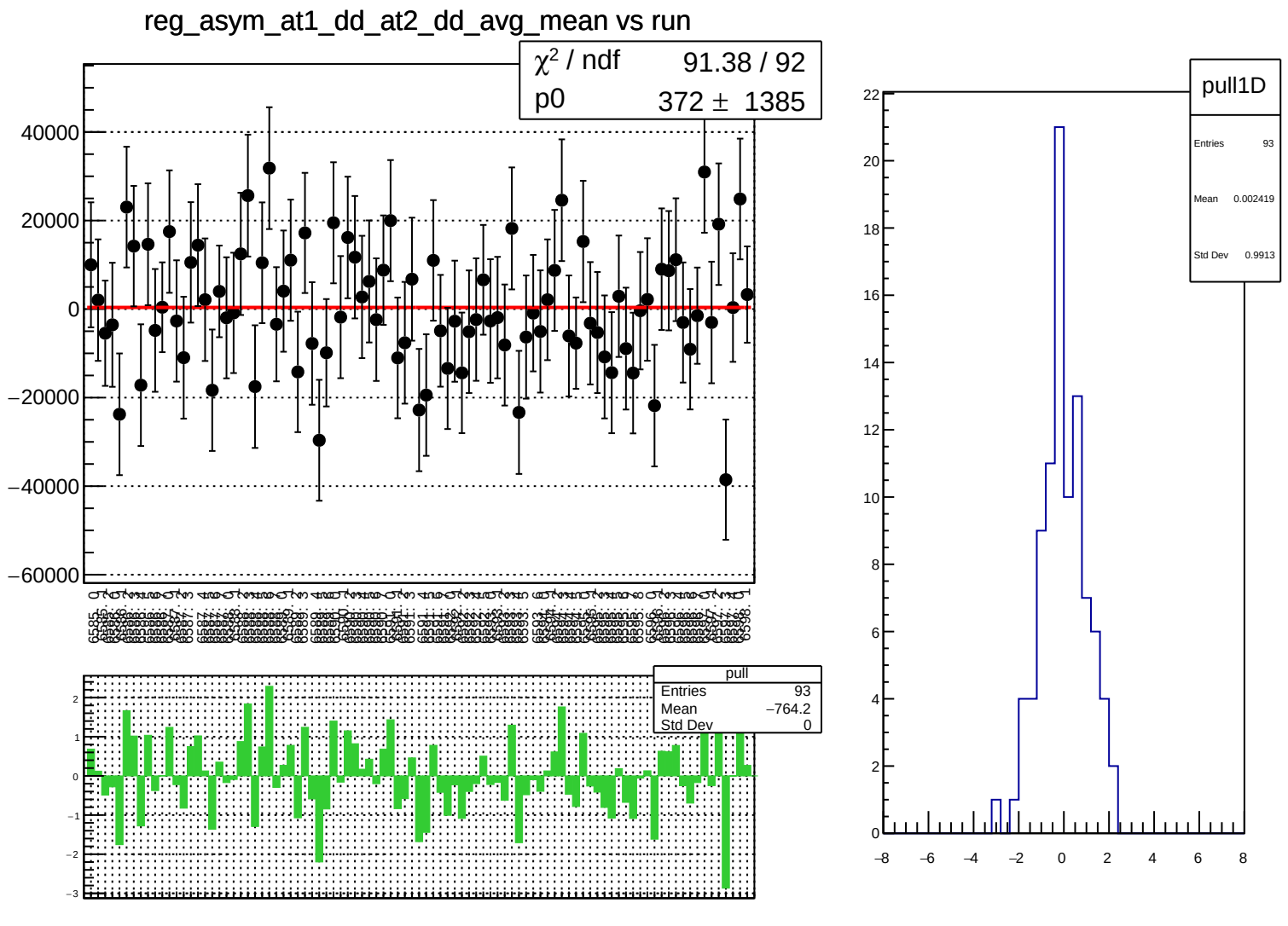

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.54 / 92
p0 −0.01107 ± 0.04274
pull
Entries 93
Mean 21.5
Std Dev 0

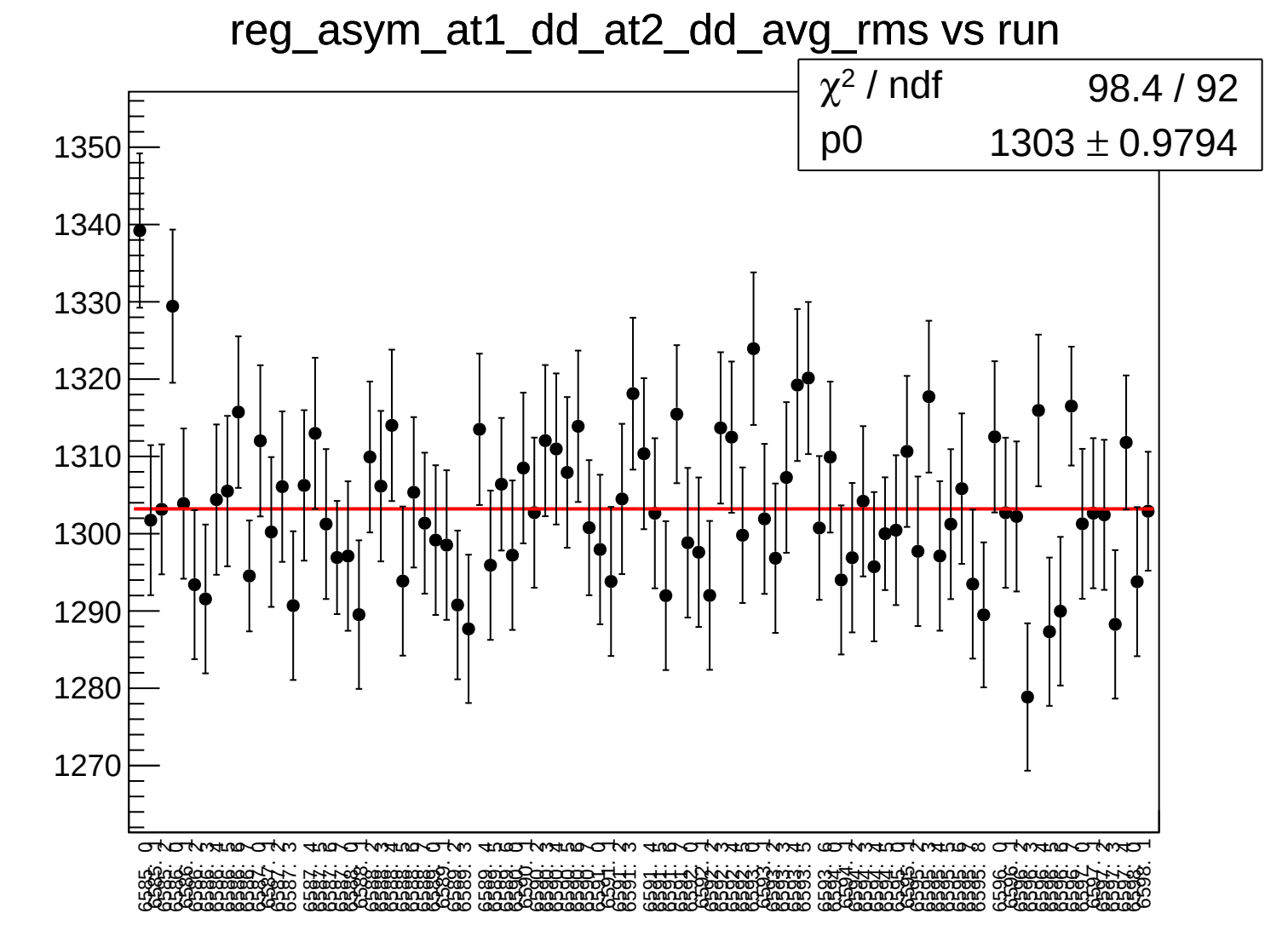

pull1D
Entries 93
Mean −0.0495
Std Dev 0.9909

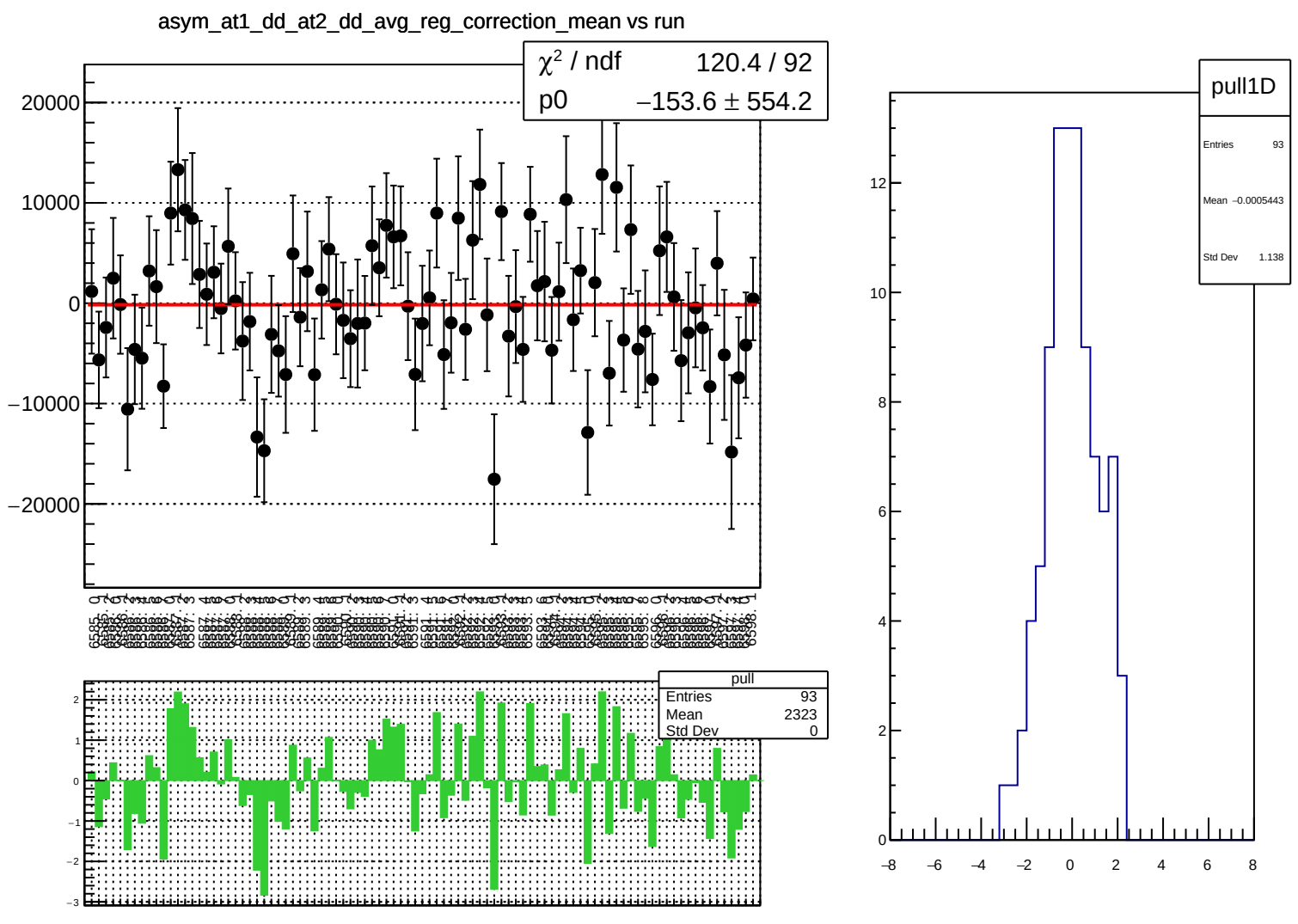

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.653e+05 / 92
p0 37.08 ± 0.03022
90
80
70
60
50
40
30
20
10

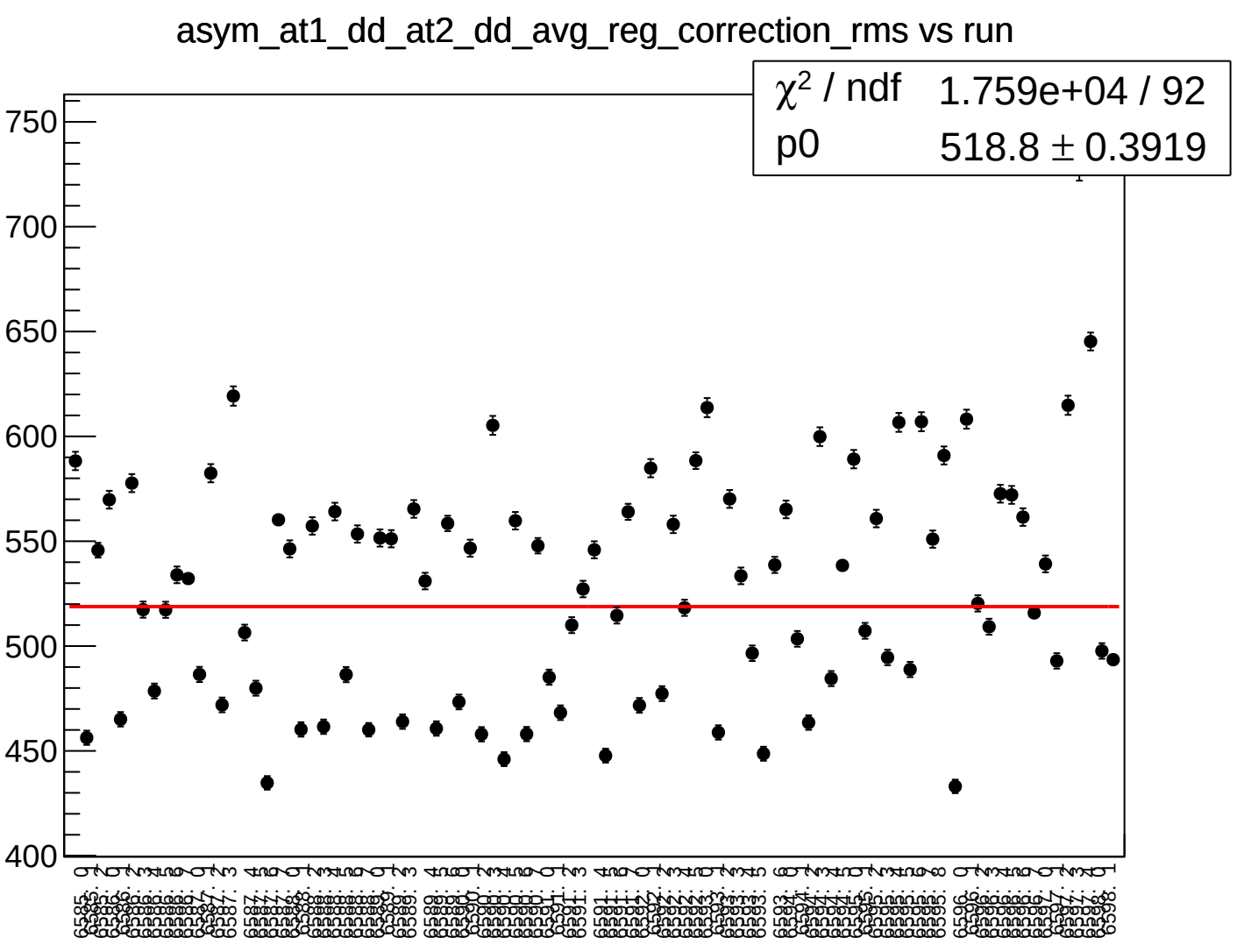

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.47 / 92
p0 −3.148e−15 ± 4.838e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean −70.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01992
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

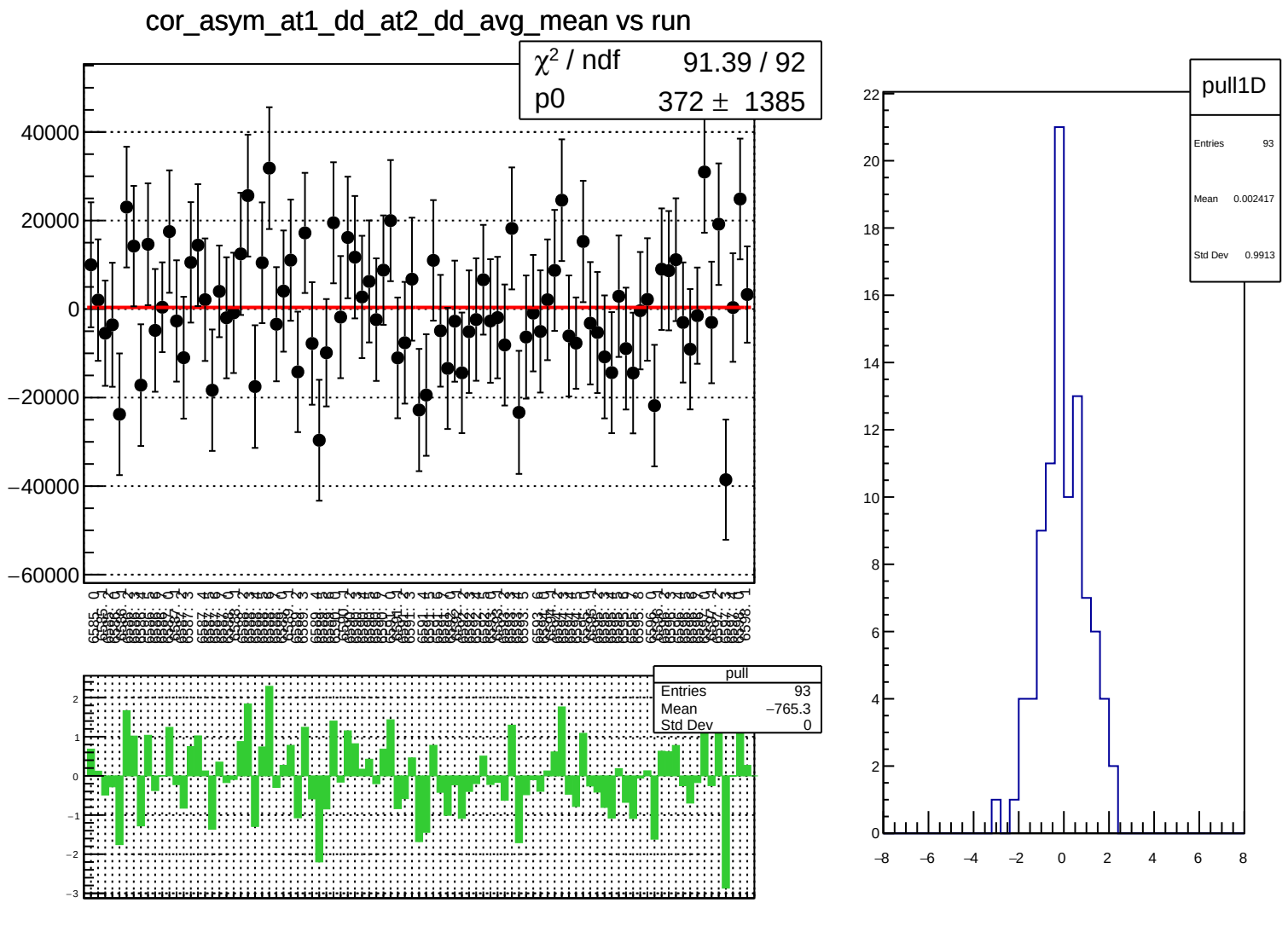

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.782e+05 / 92
p0 3.889e−12 ± 3.421e−15
25
20
15
10
5

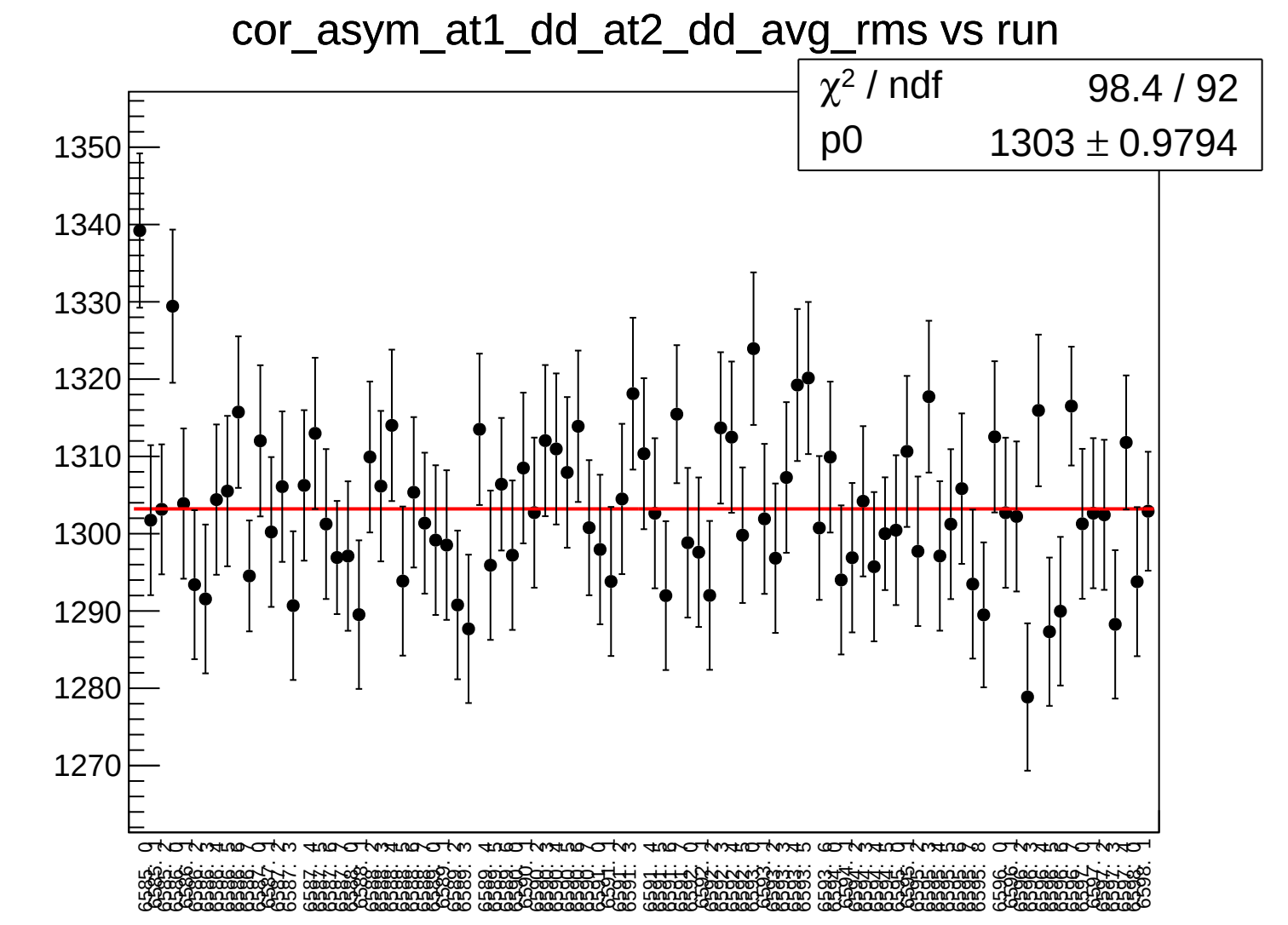

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.38 / 92
p0 372 ± 1385
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −764.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002419
Std Dev 0.9913
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

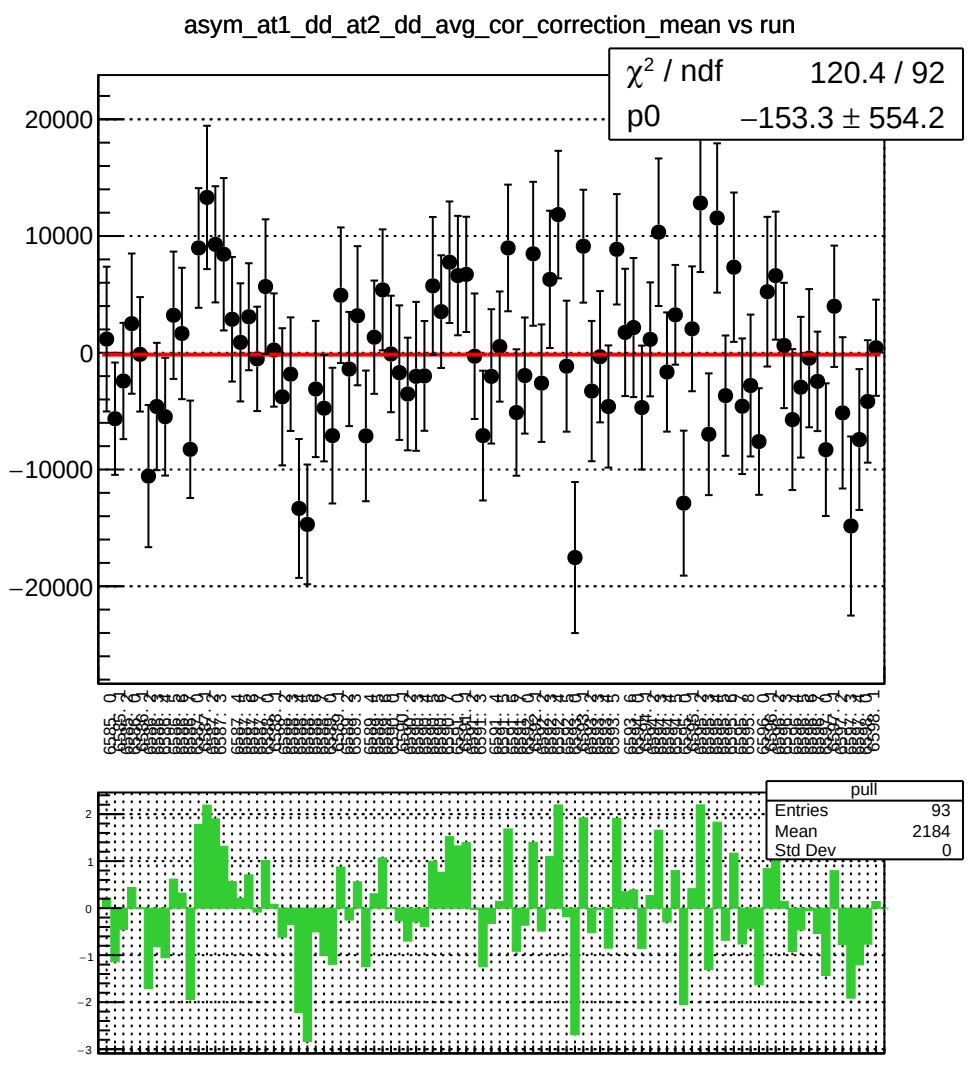

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 98.4 / 92
p0 1303 ± 0.9794
1350
1340
1330
1320
1310
1300
1290
1280
1270

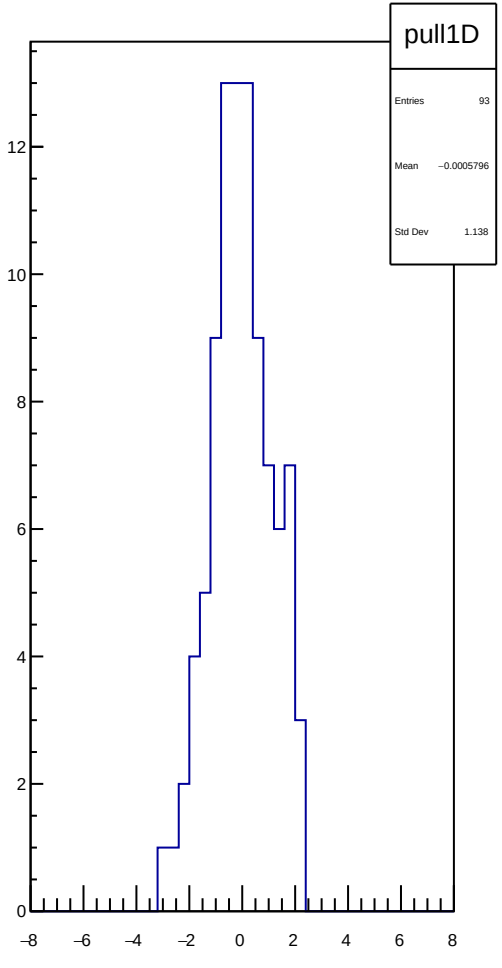

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 120.4 / 92
p0 −153.6 ± 554.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 2323
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.0005443
Std Dev 1.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

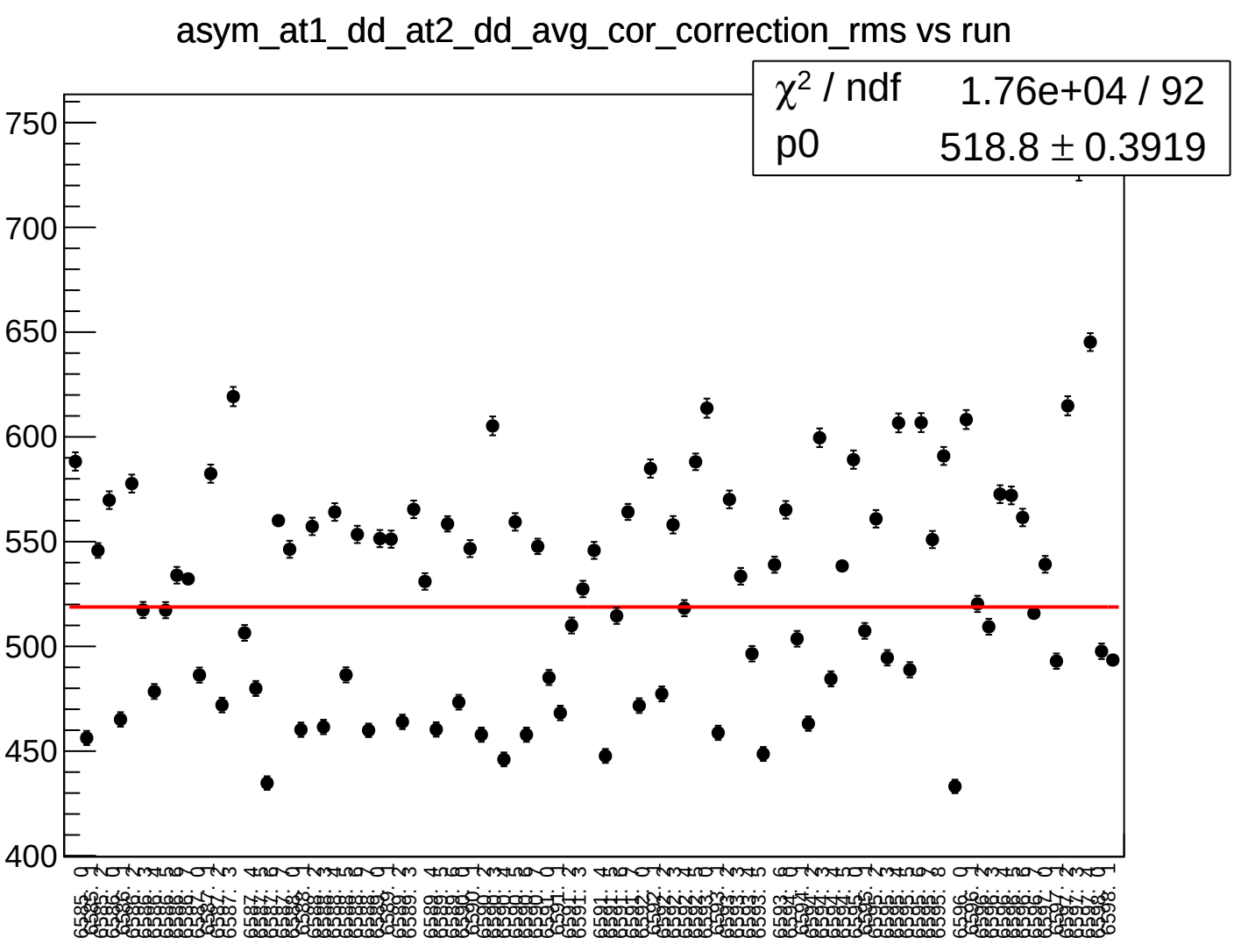

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.759e+04 / 92
p0 518.8 ± 0.3919
750
700
650
600
550
500
450
400

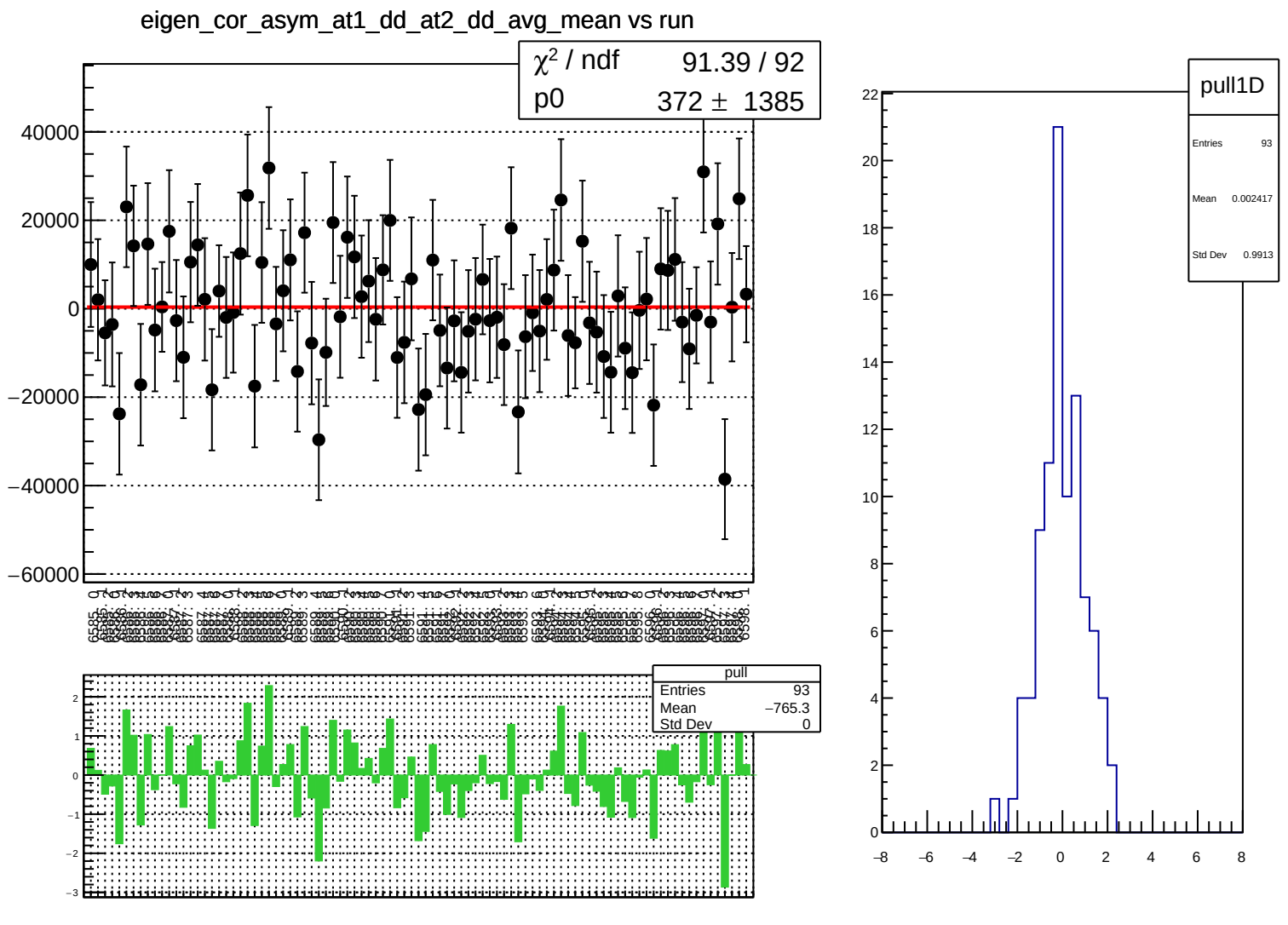

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.39 / 92
p0 372 ± 1385
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −765.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002417
Std Dev 0.9913
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

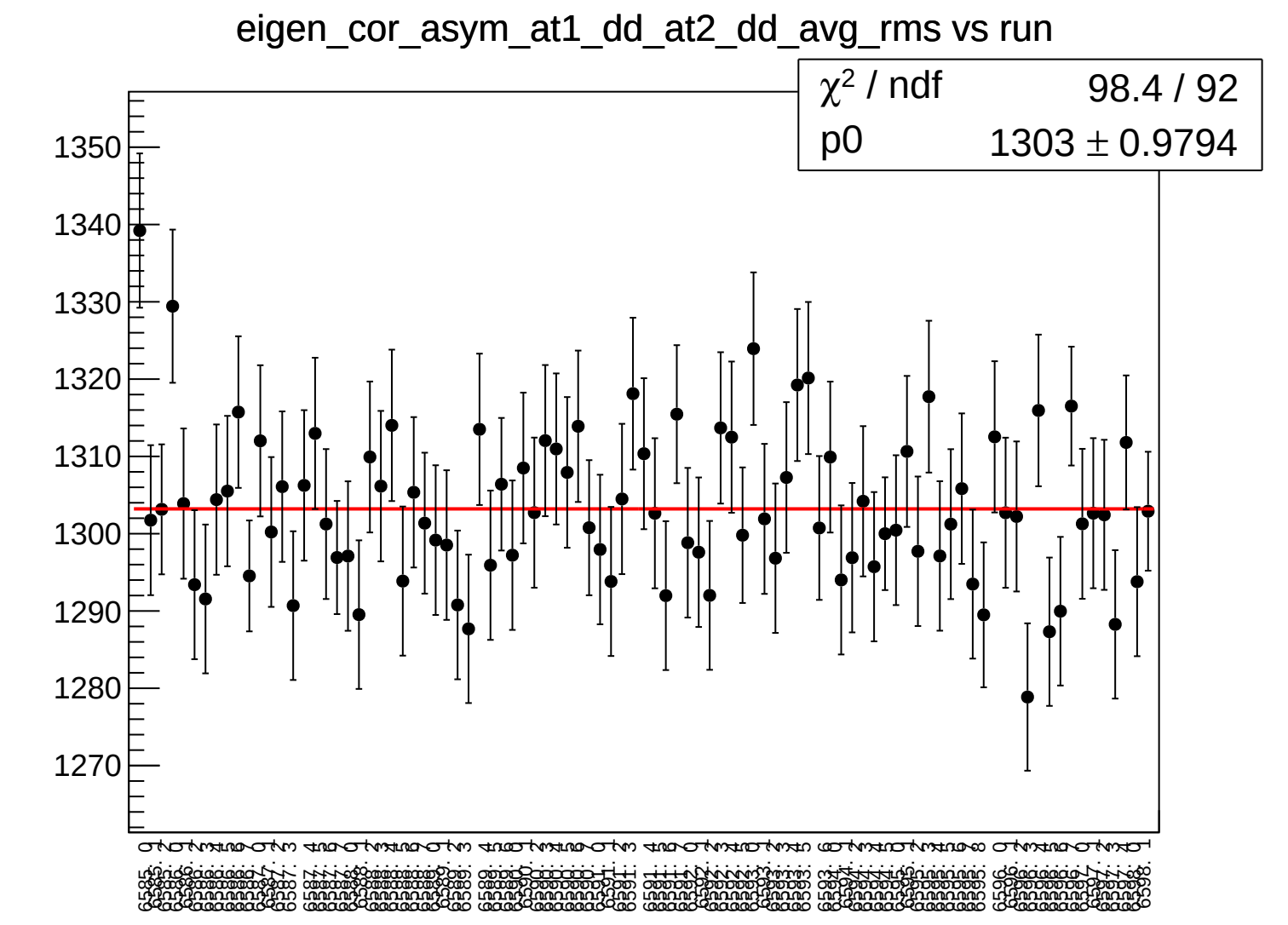

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 98.4 / 92
p0 1303 ± 0.9794
1350
1340
1330
1320
1310
1300
1290
1280
1270

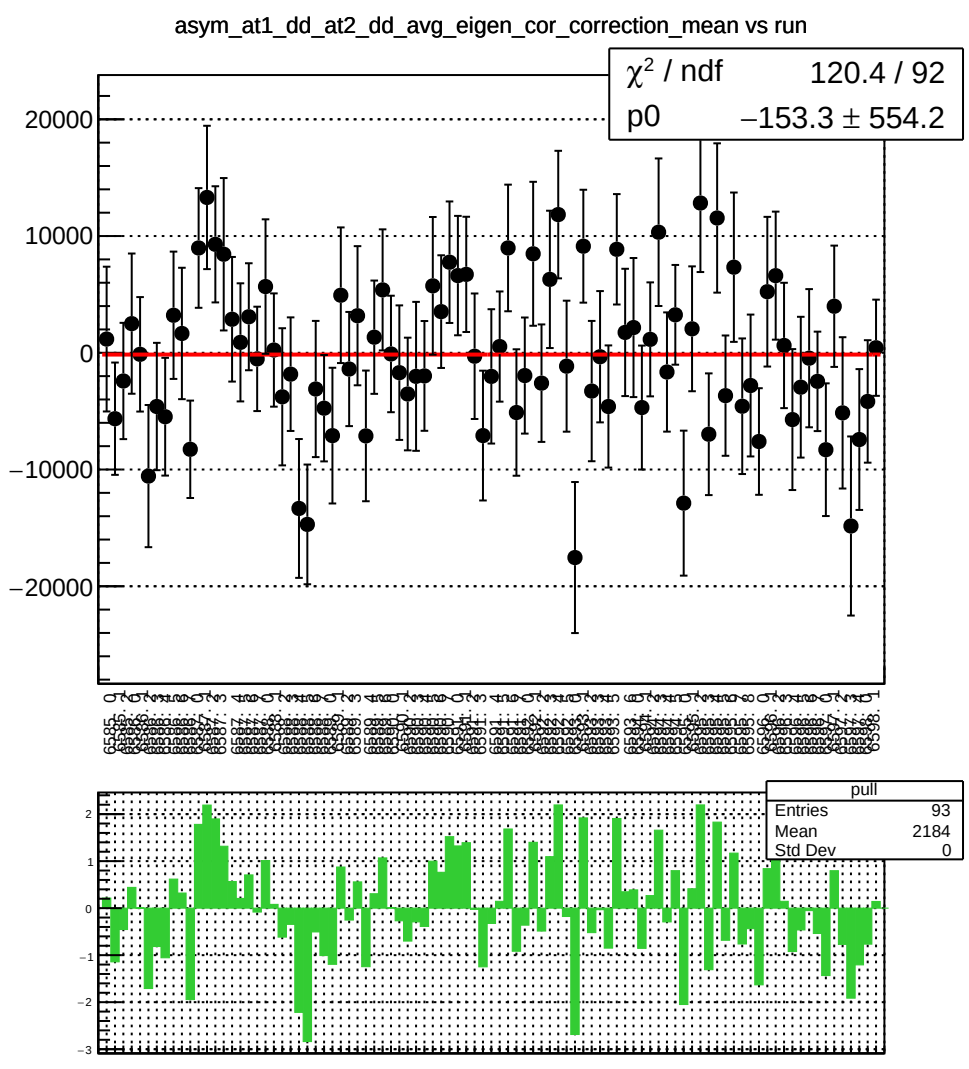

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 120.4 / 92
p0 −153.3 ± 554.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 2184
Std Dev 0
2
1
0
−1
−2
−3

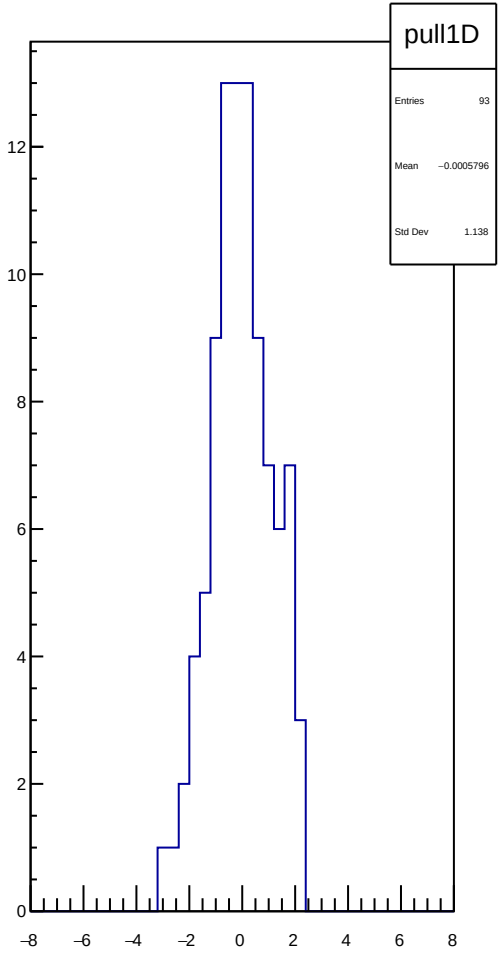

pull1D
Entries 93
Mean −0.0005796
Std Dev 1.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

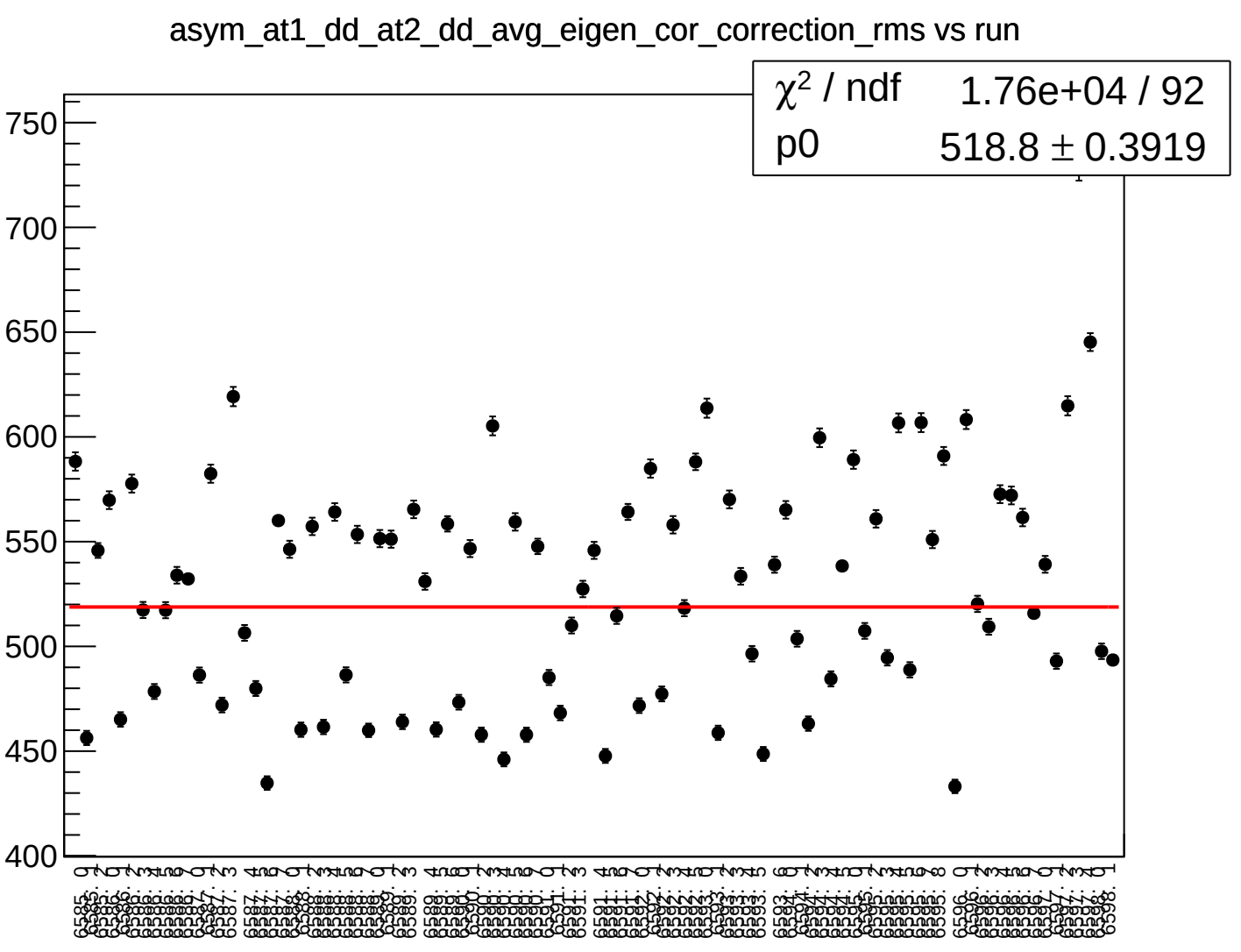

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.76e+04 / 92
p0 518.8 ± 0.3919
750
700
650
600
550
500
450
400

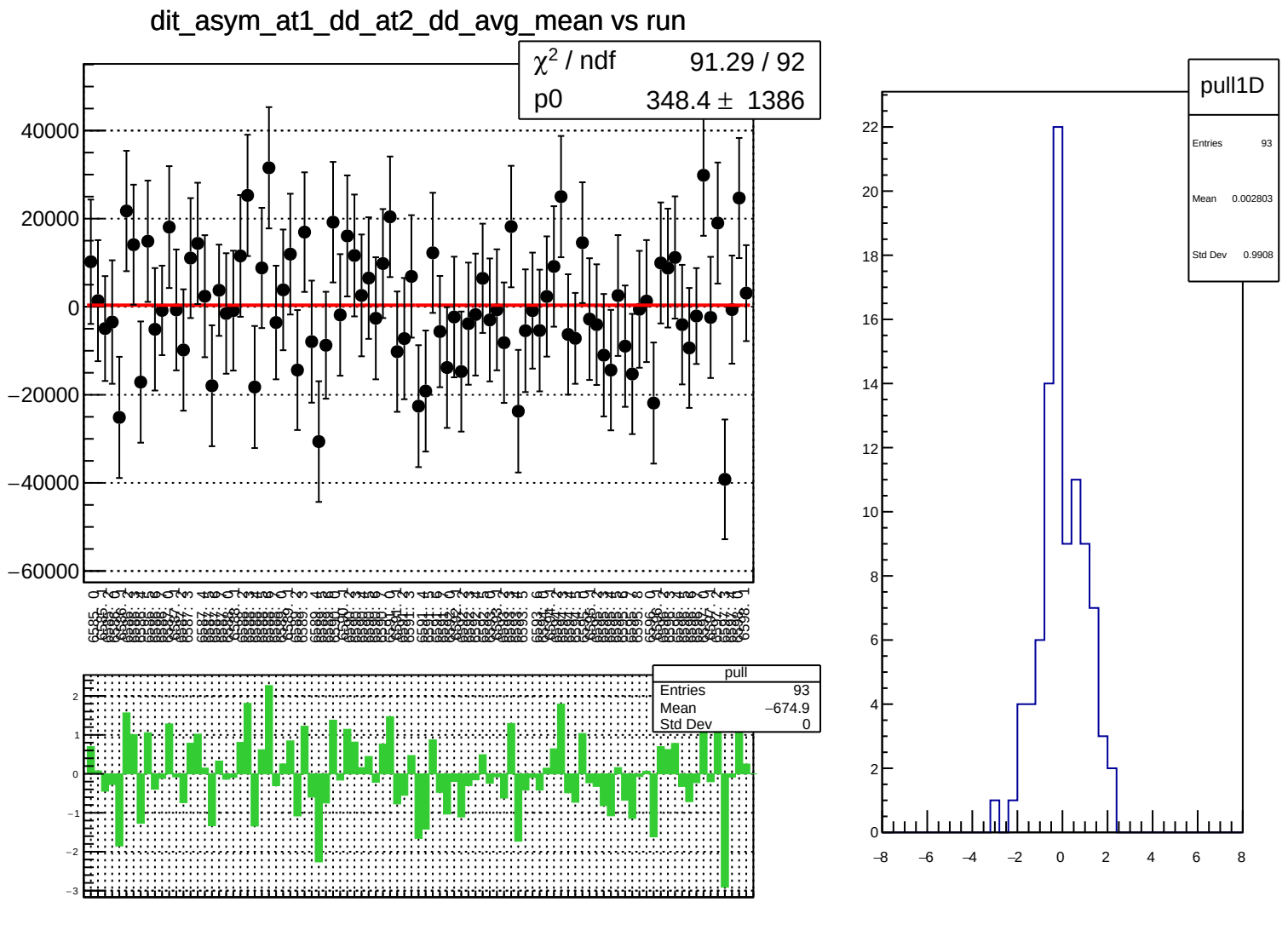

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.39 / 92
p0 372 ± 1385
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −765.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002417
Std Dev 0.9913
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

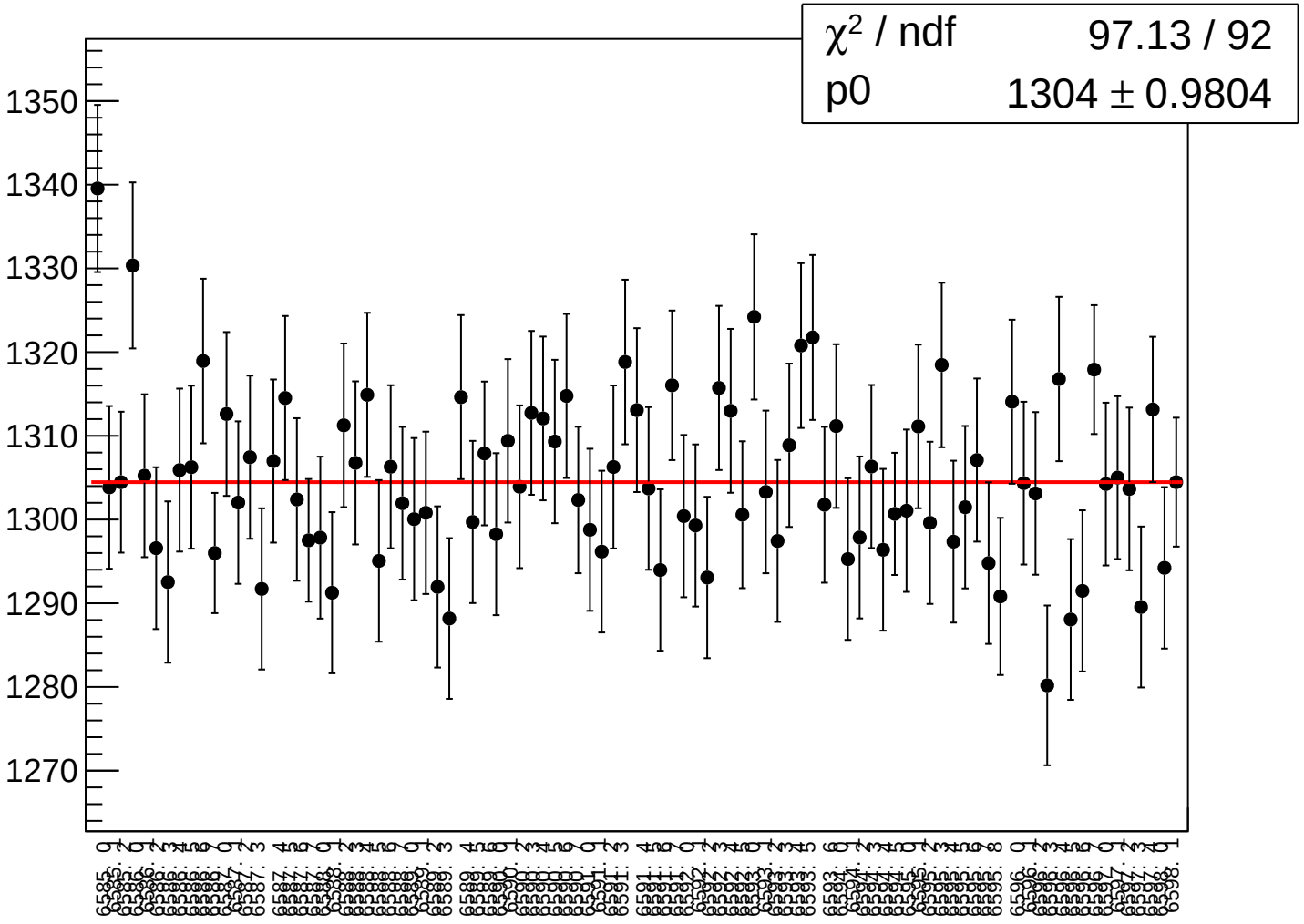

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 98.4 / 92
p0 1303 ± 0.9794
1350
1340
1330
1320
1310
1300
1290
1280
1270

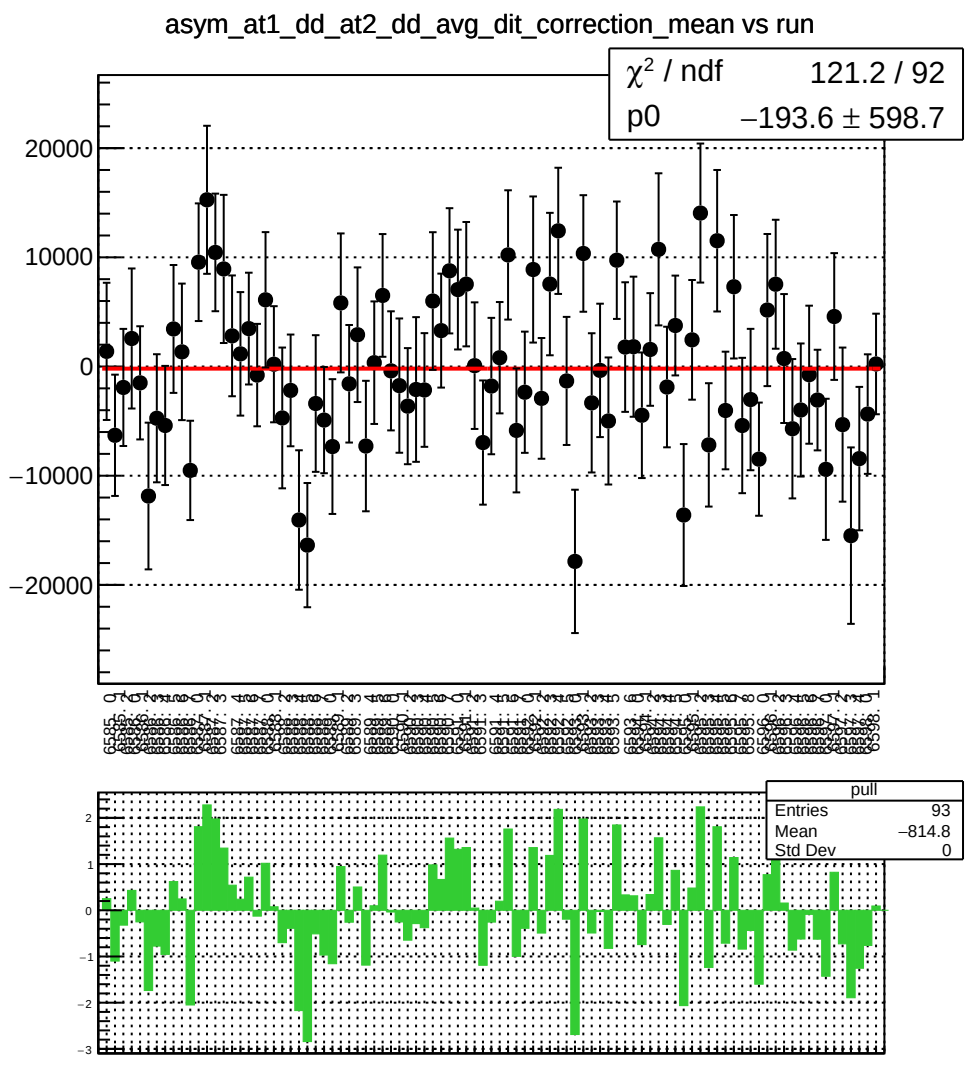

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 120.4 / 92
p0 −153.3 ± 554.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 2184
Std Dev 0
2
1
0
−1
−2
−3

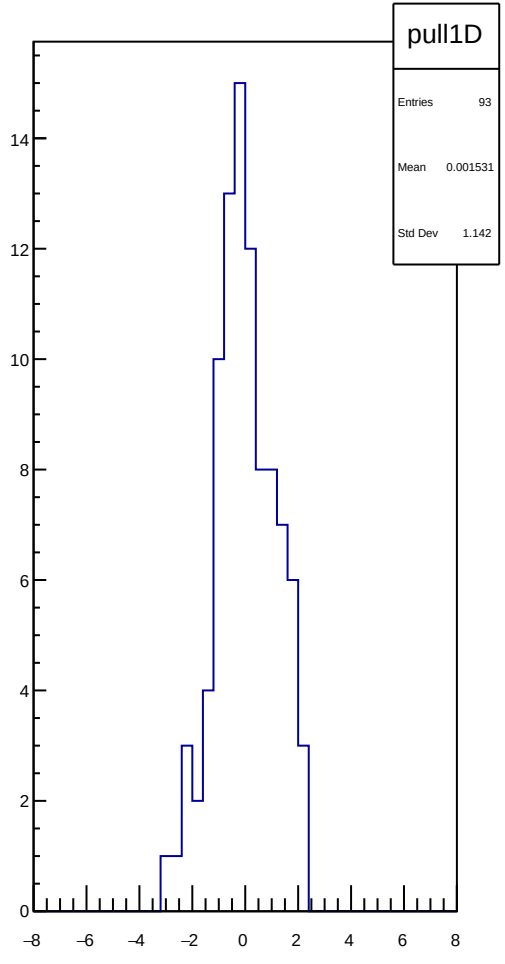

pull1D
Entries 93
Mean −0.0005796
Std Dev 1.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

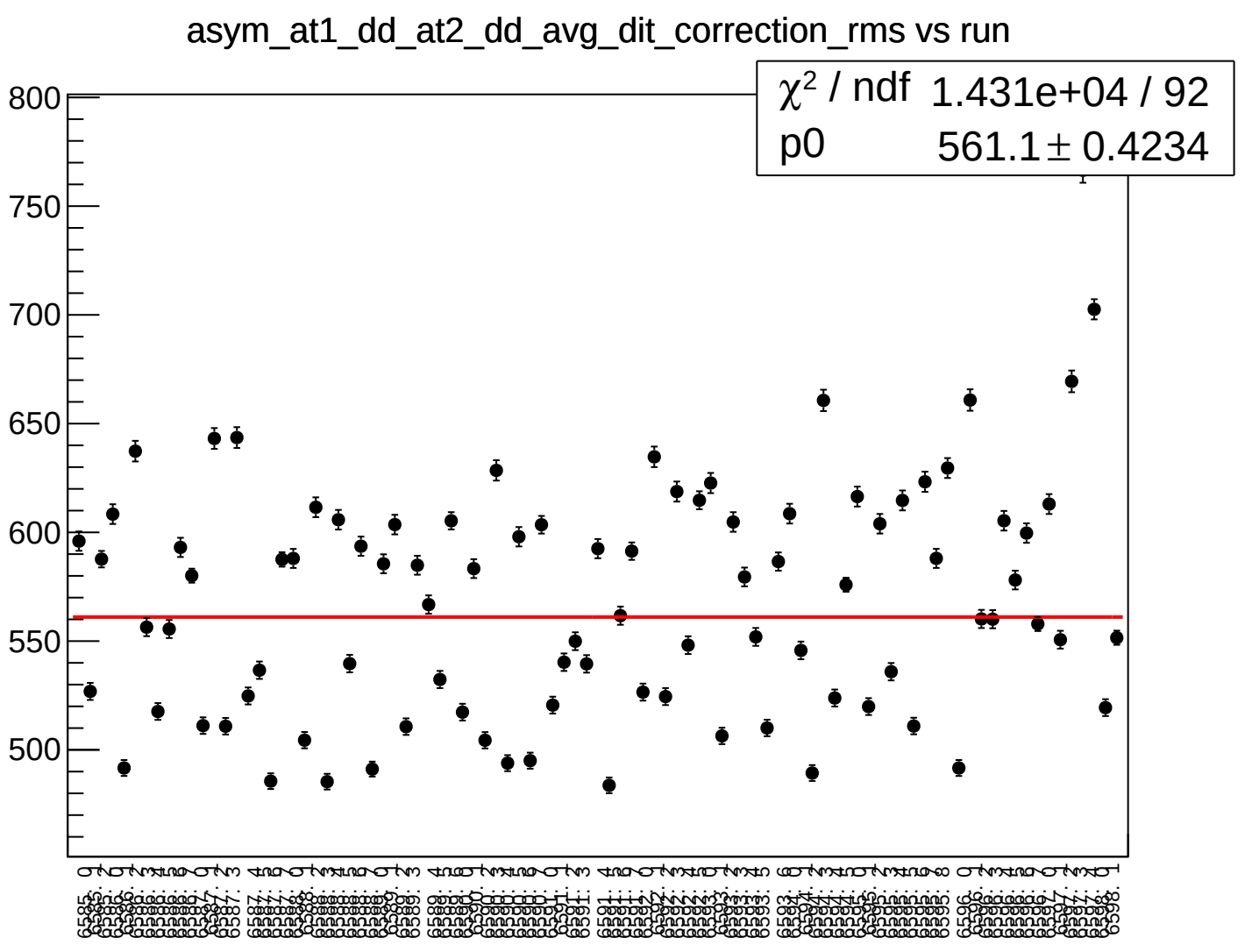

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.76e+04 / 92
p0 518.8 ± 0.3919
750
700
650
600
550
500
450
400

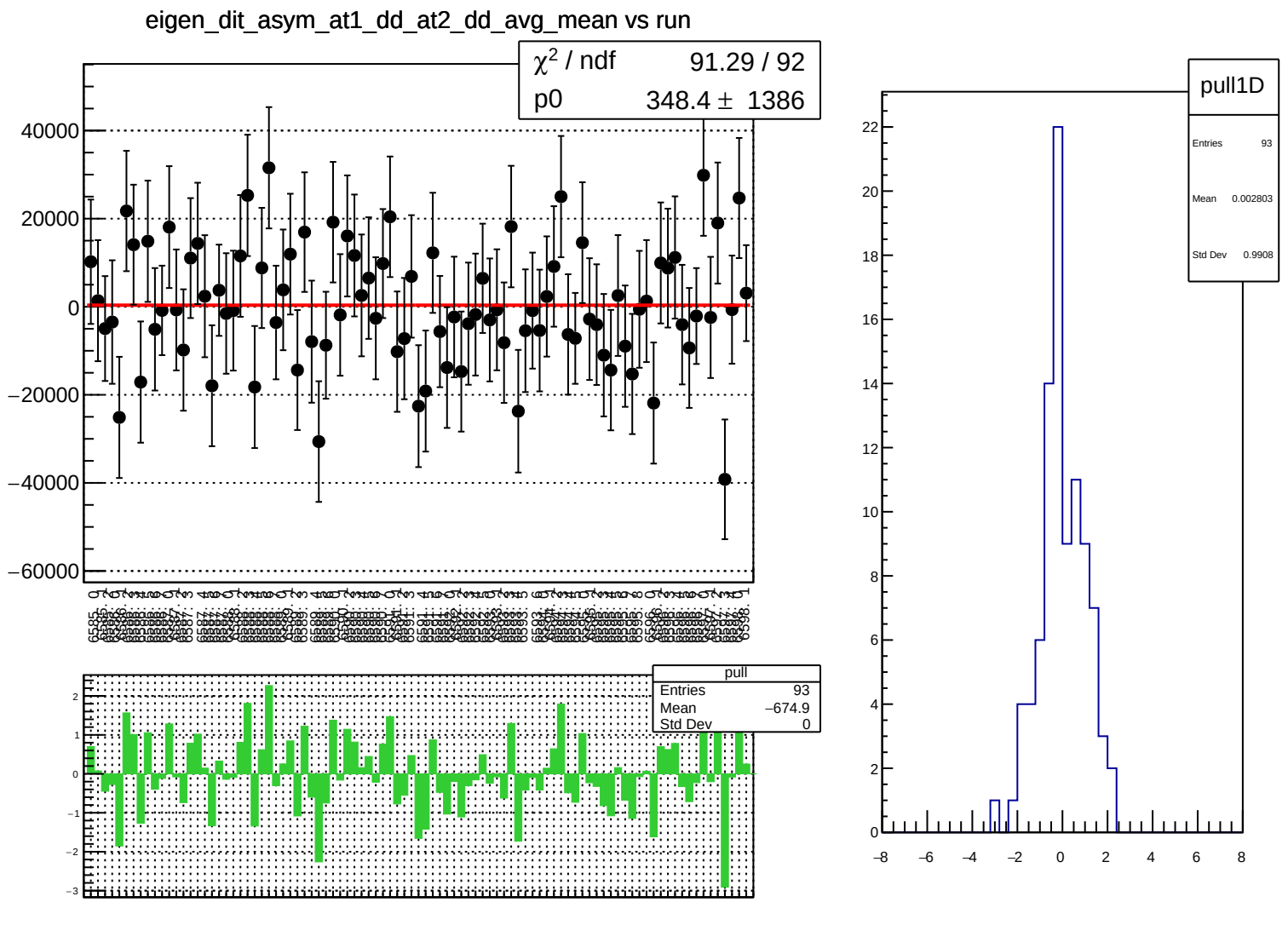

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.29 / 92
p0 348.4 ± 1386
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −674.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002803
Std Dev 0.9908
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

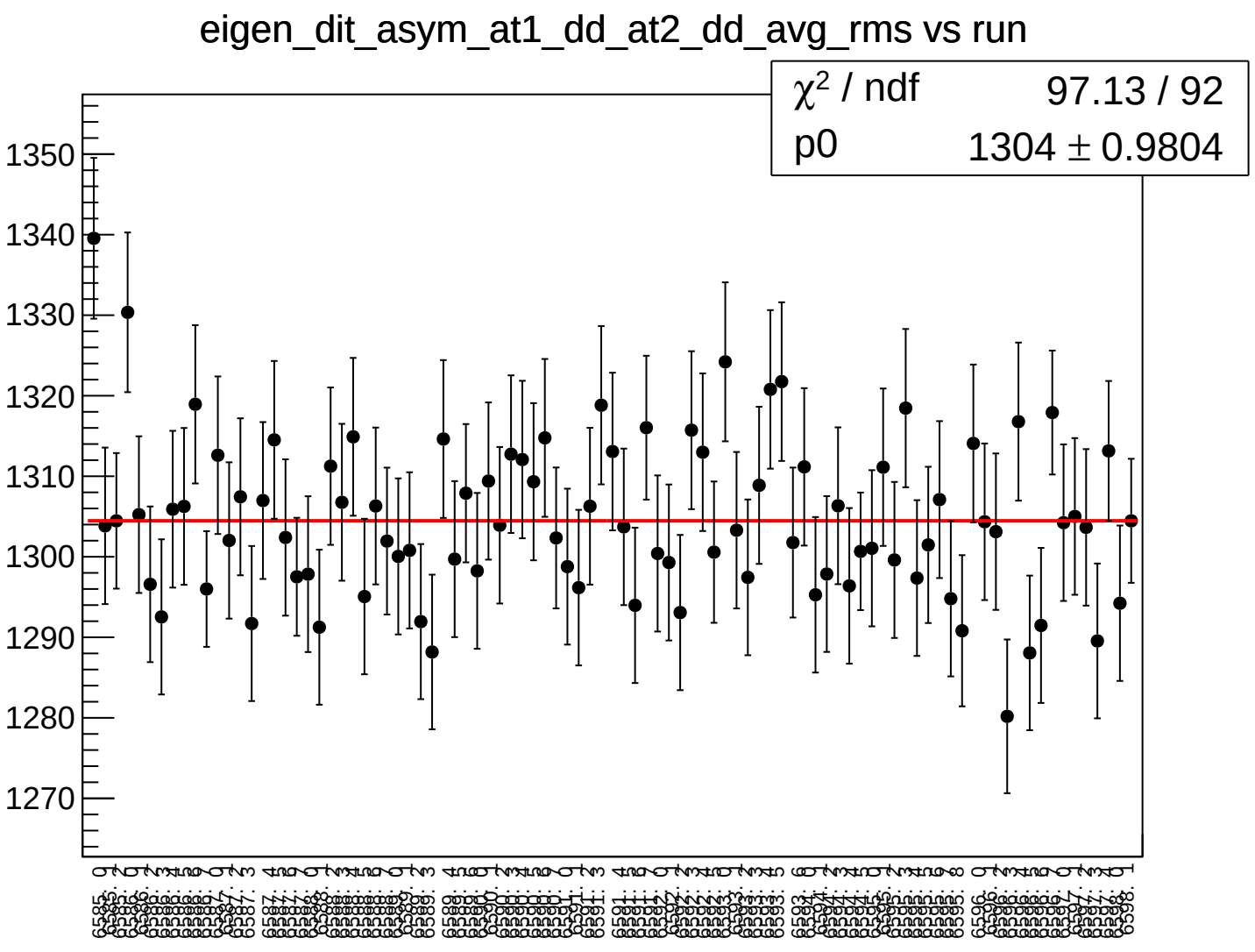

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 97.13 / 92
p0 1304 ± 0.9804
1350
1340
1330
1320
1310
1300
1290
1280
1270

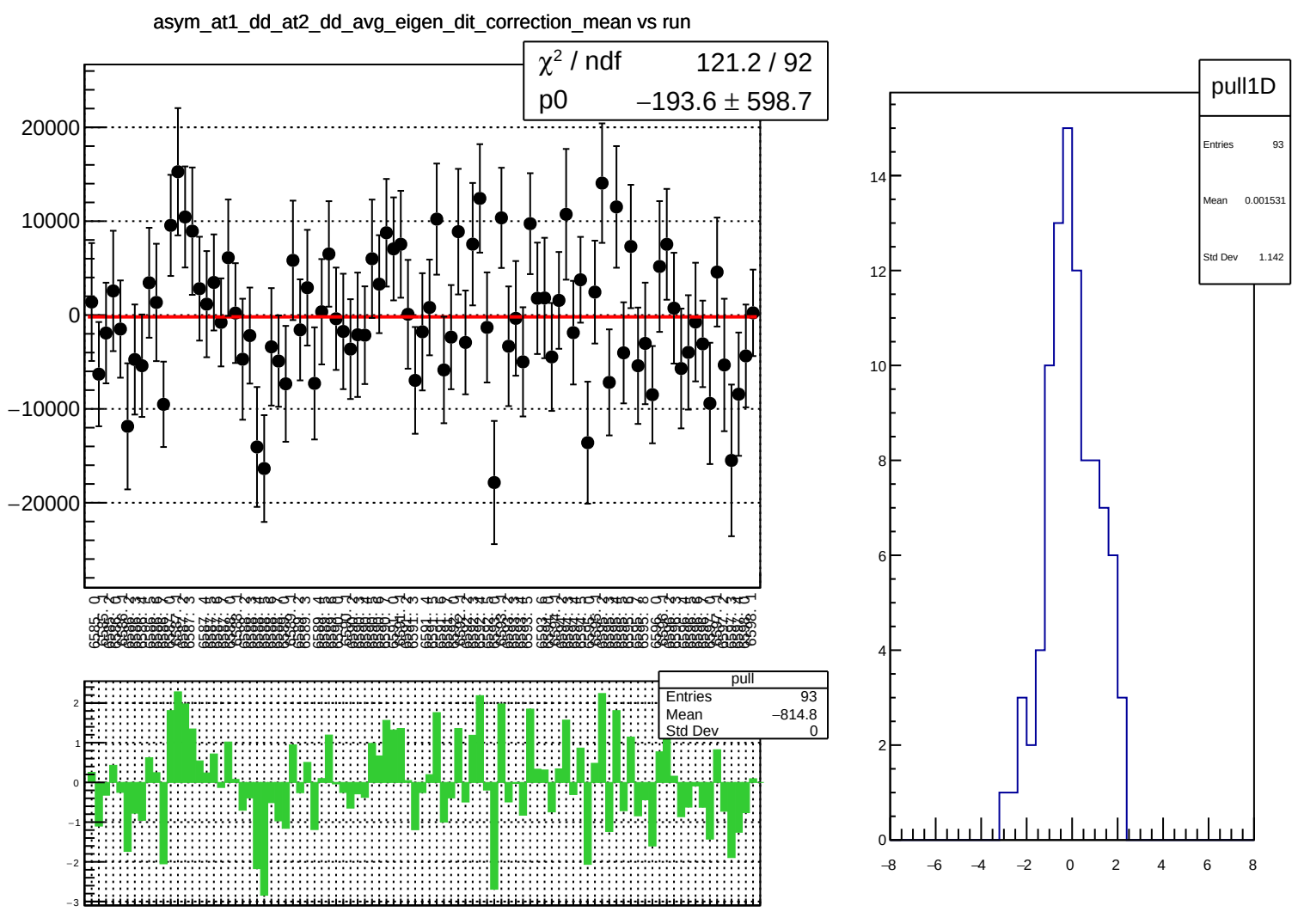

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 121.2 / 92
p0 −193.6 ± 598.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −814.8
Std Dev 0
2
1
0
−1
−2
−3

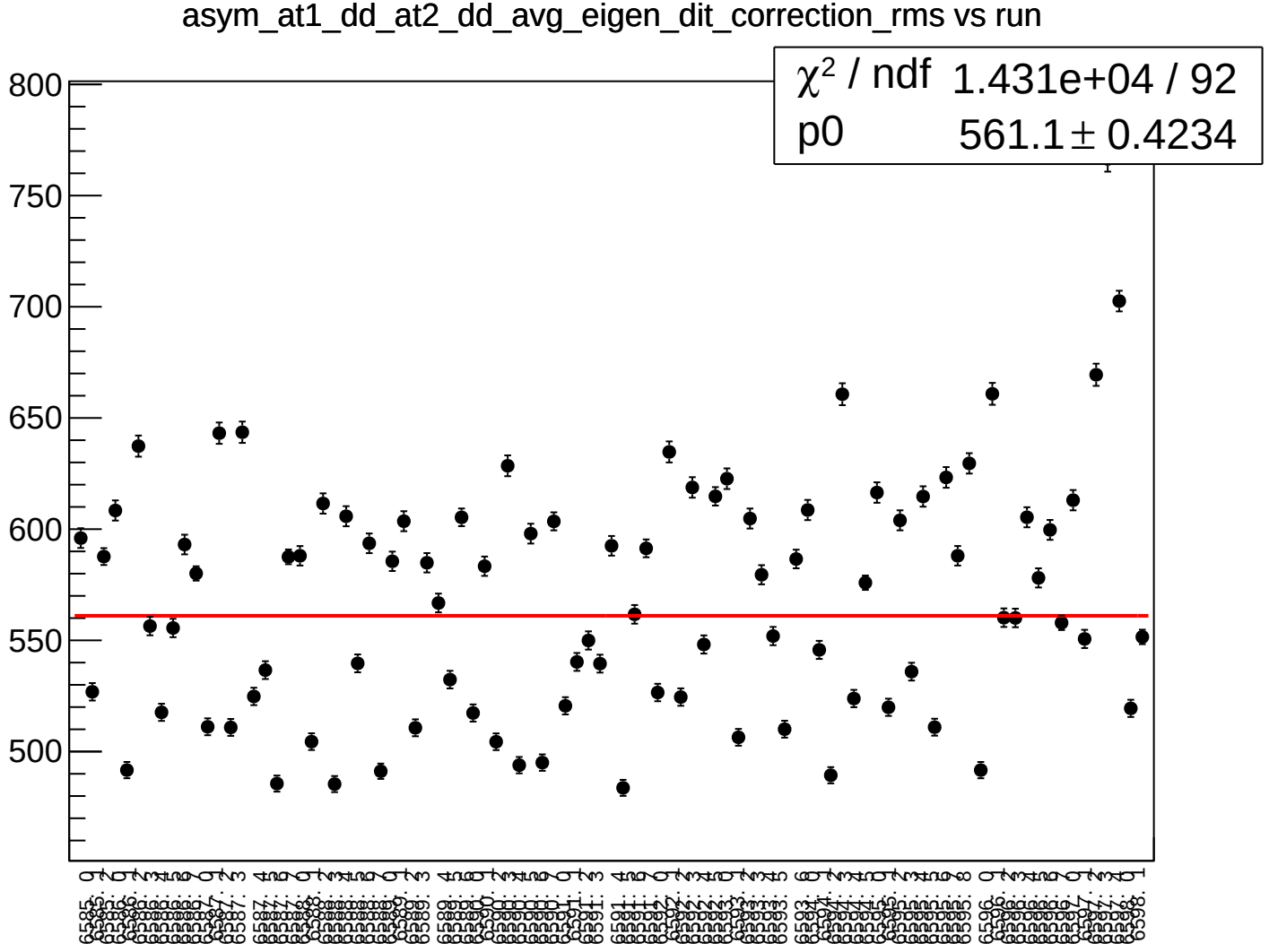

pull1D
Entries 93
Mean 0.001531
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

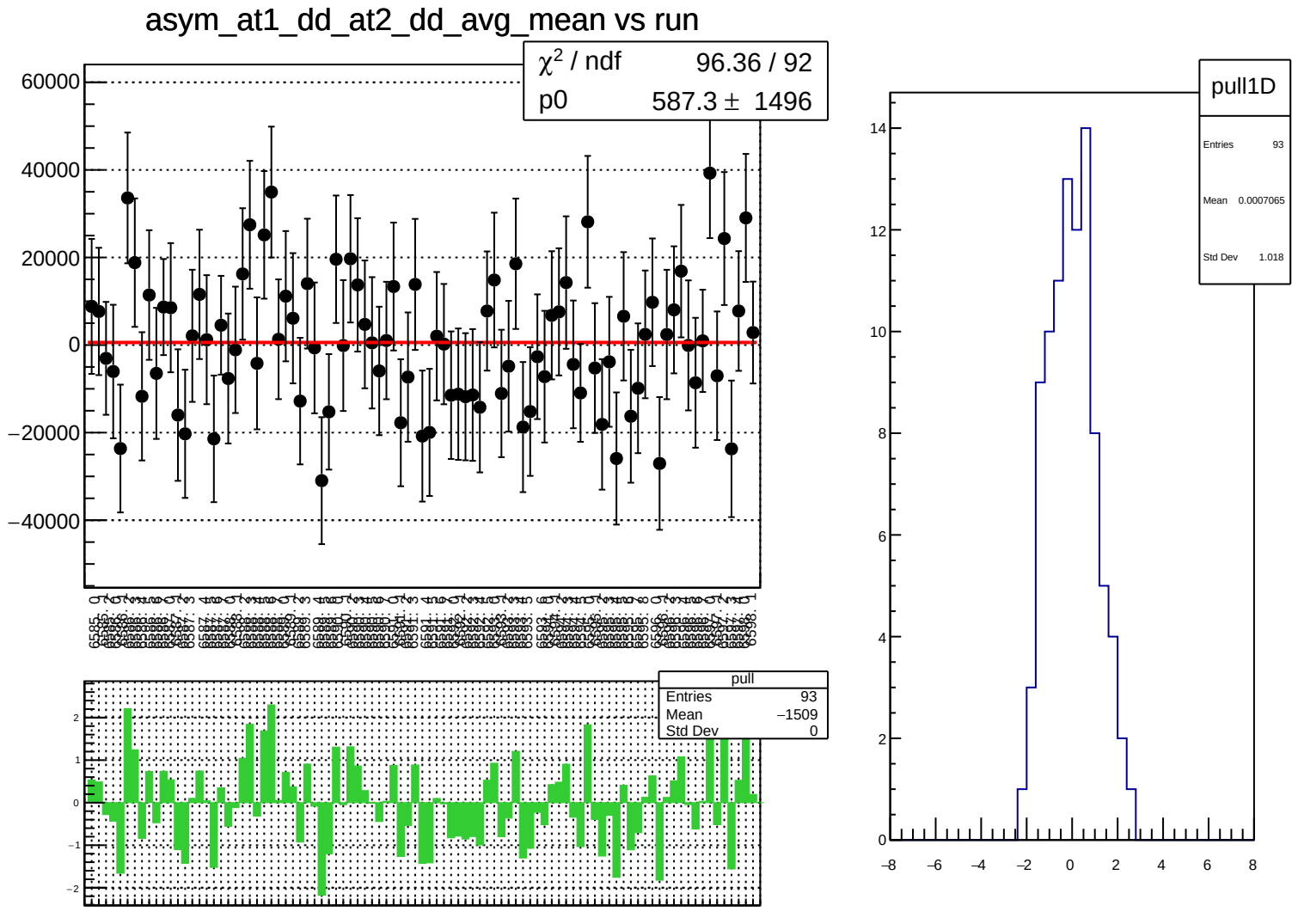

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.431e+04 / 92
p0 561.1 ± 0.4234
800
750
700
650
600
550
500

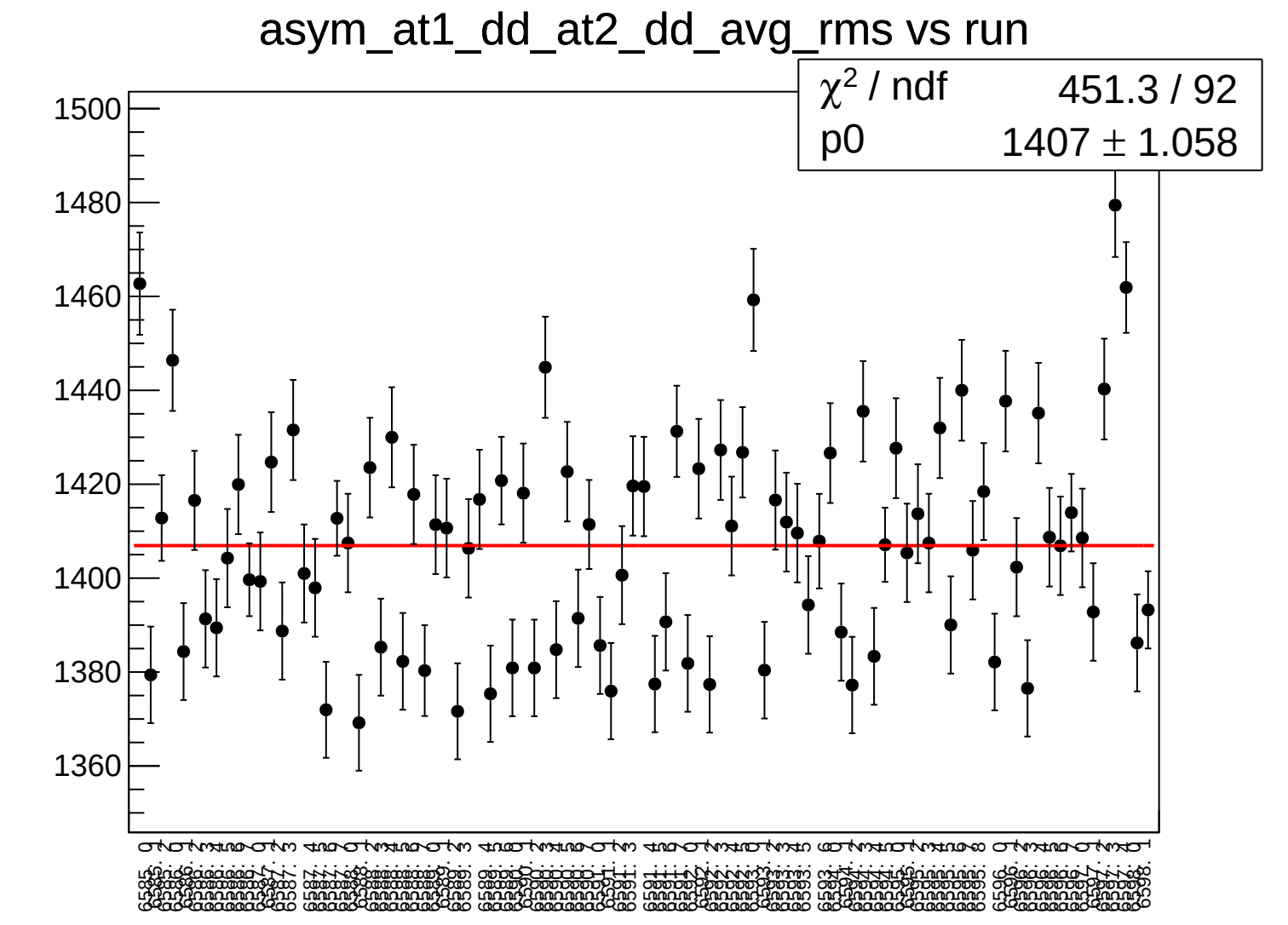

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.29 / 92
p0 348.4 ± 1386
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −674.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002803
Std Dev 0.9908
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

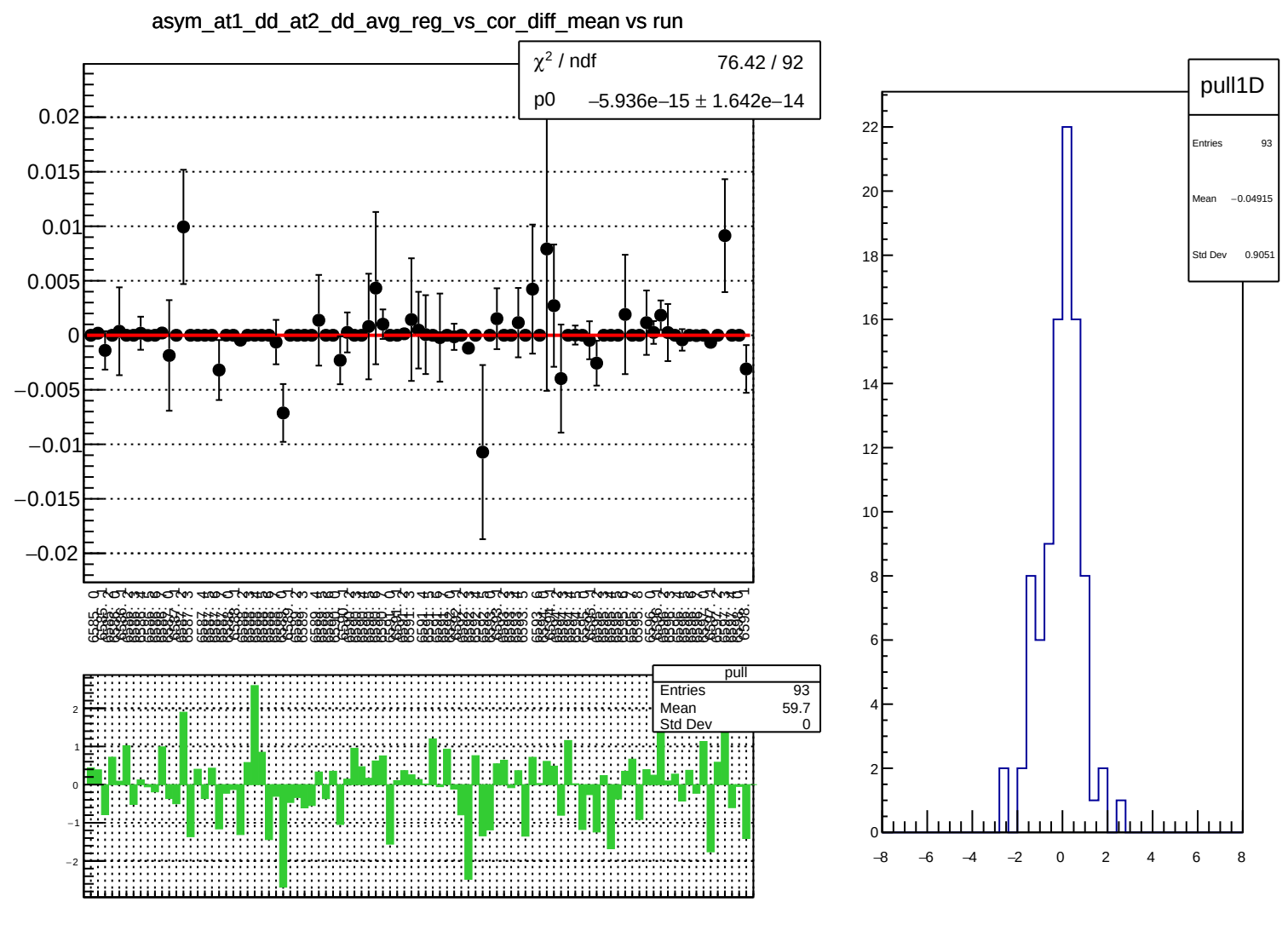

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 97.13 / 92
p0 1304 ± 0.9804
1350
1340
1330
1320
1310
1300
1290
1280
1270

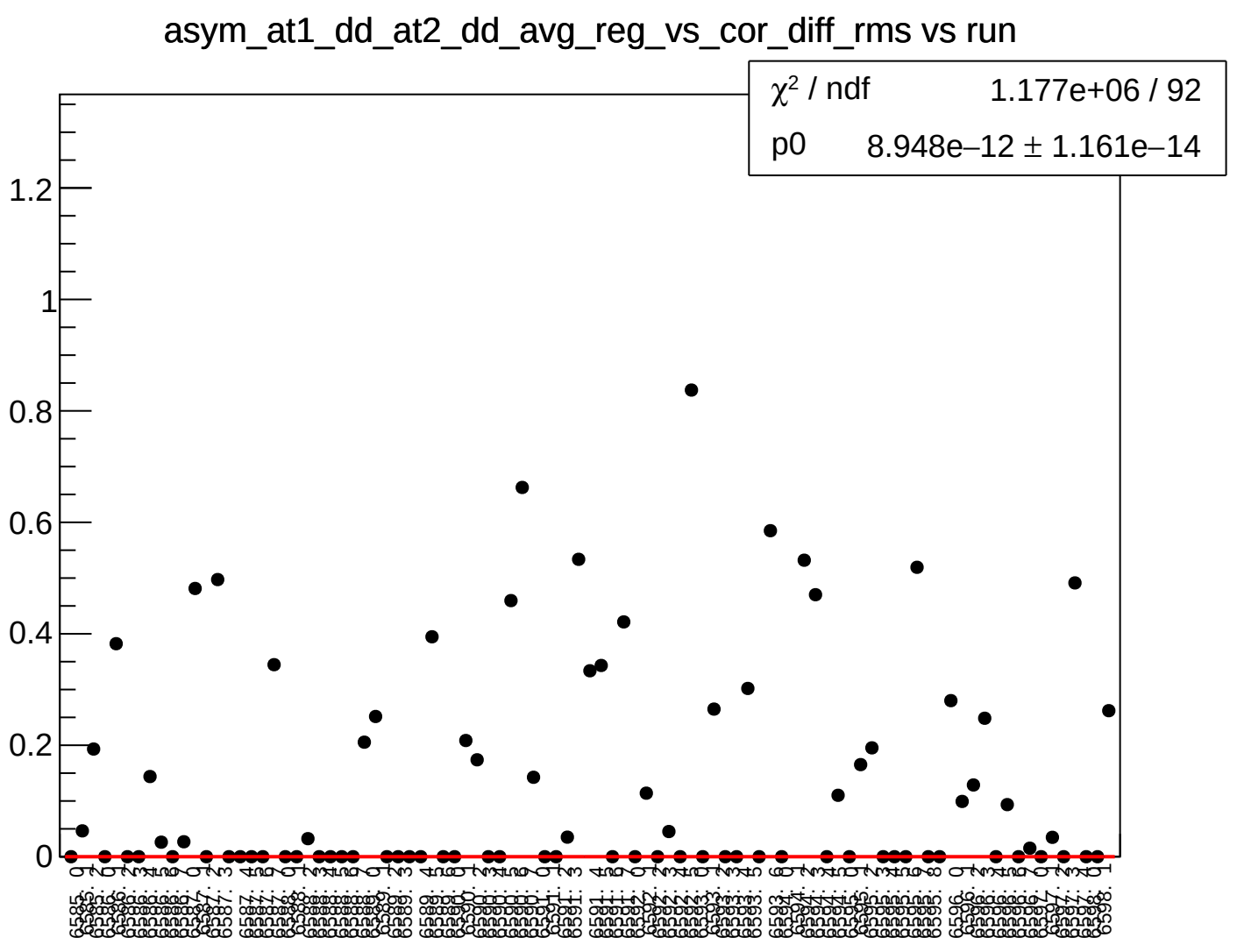

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 121.2 / 92
p0 −193.6 ± 598.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −814.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.001531
Std Dev 1.142
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

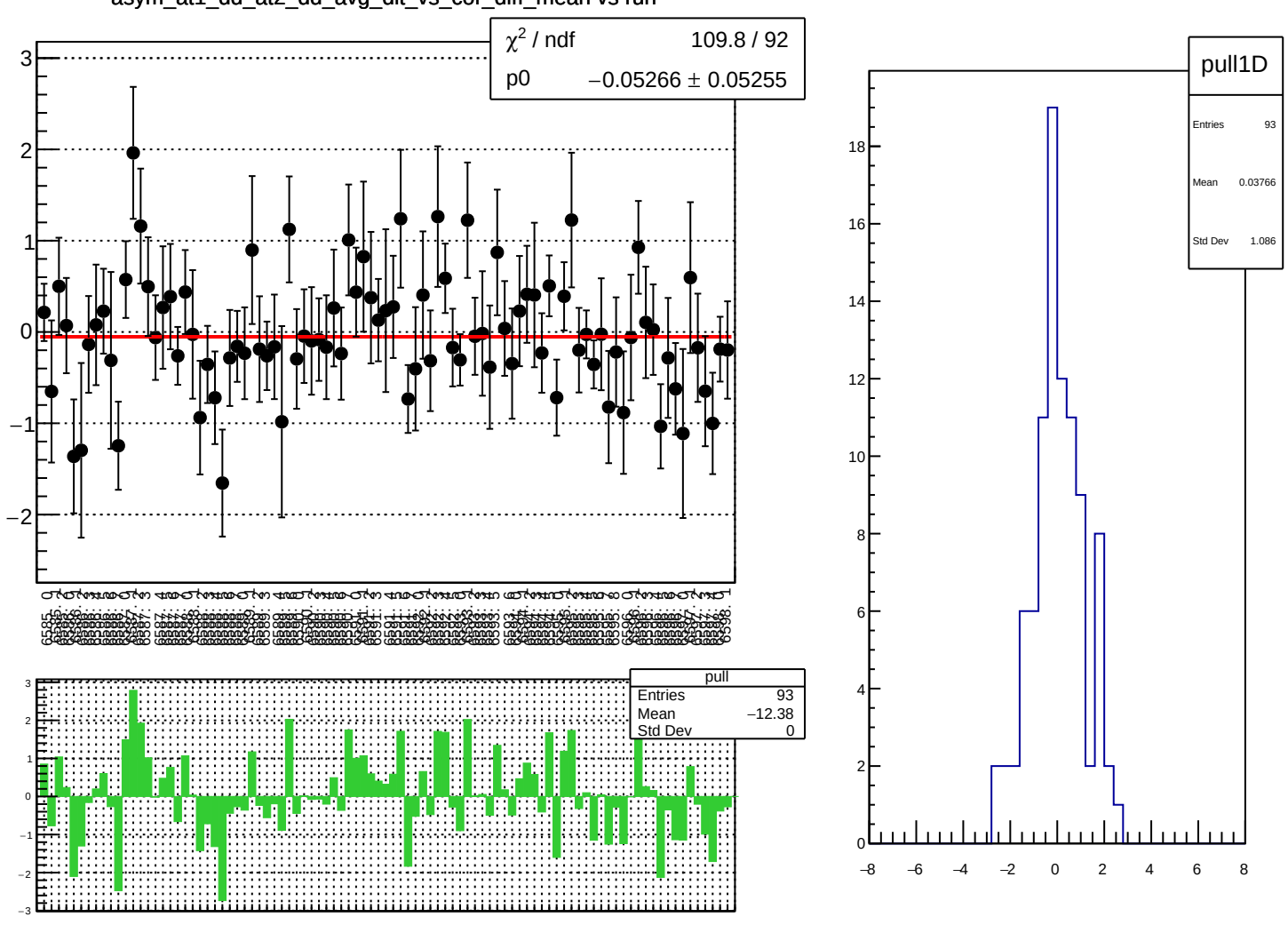

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.431e+04 / 92
p0 561.1 ± 0.4234
800
750
700
650
600
550
500

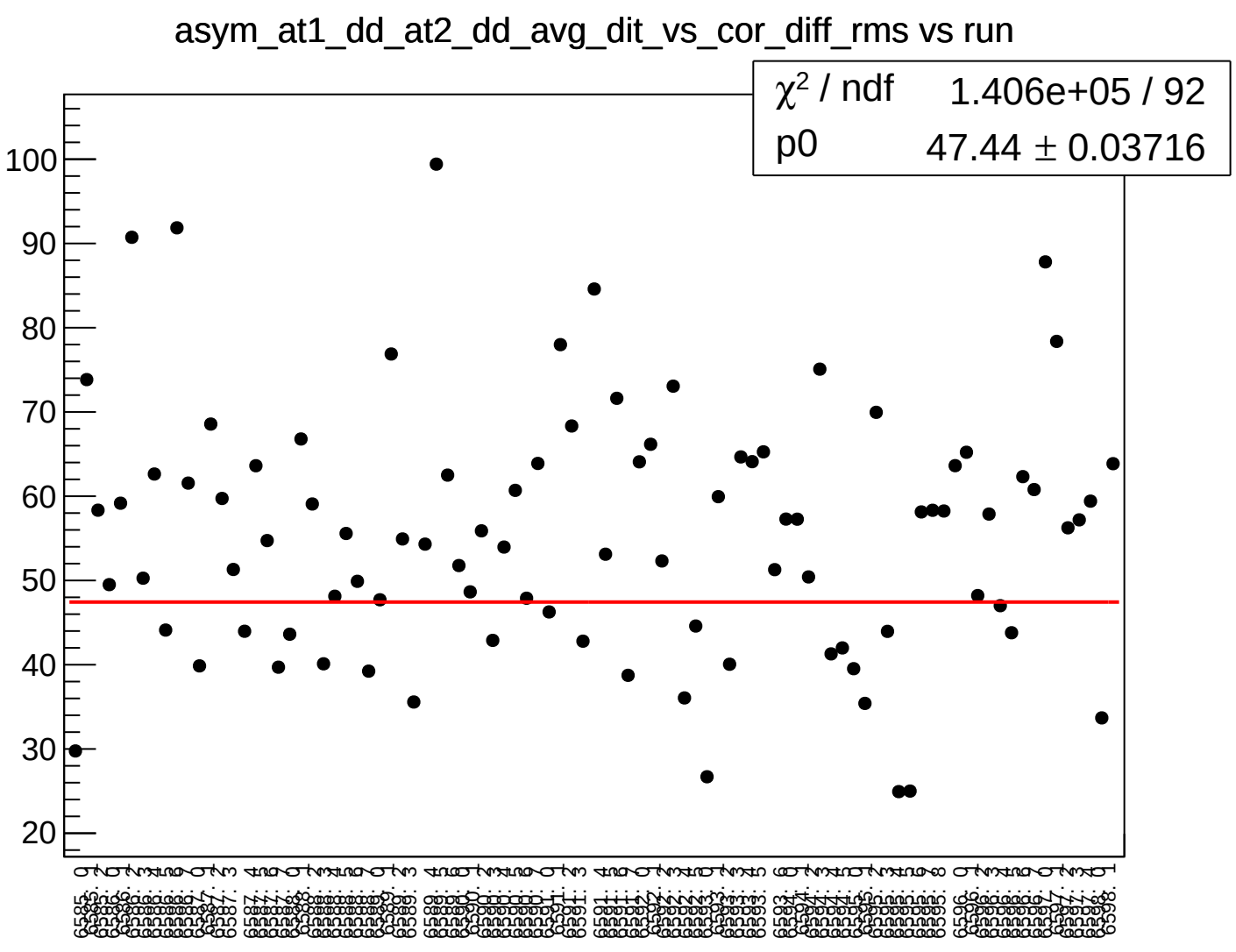

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 96.36 / 92
p0 587.3 ± 1496
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −1509
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0007065
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

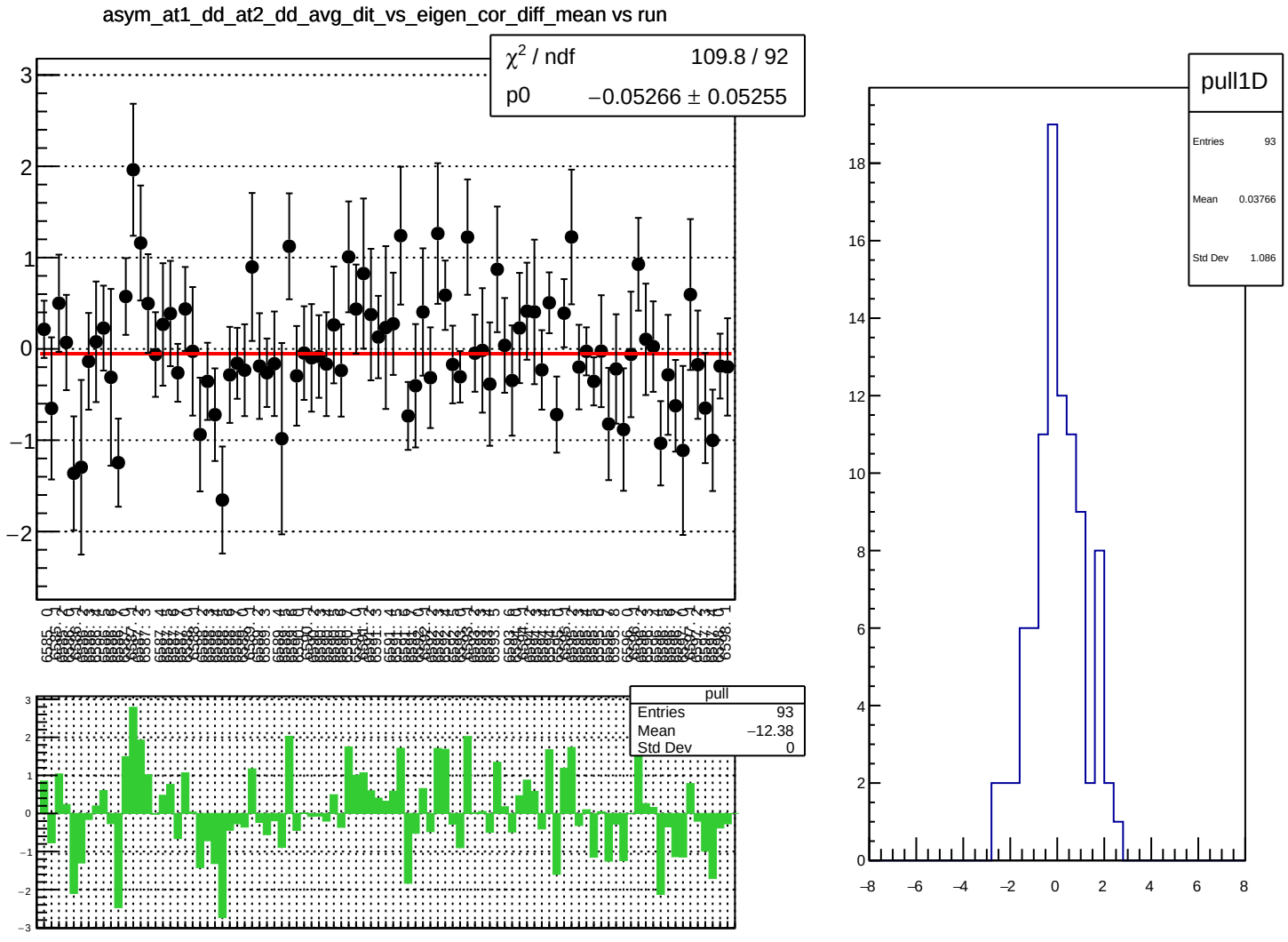

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 451.3 / 92
p0 1407 ± 1.058
1500
1480
1460
1440
1420
1400
1380
1360

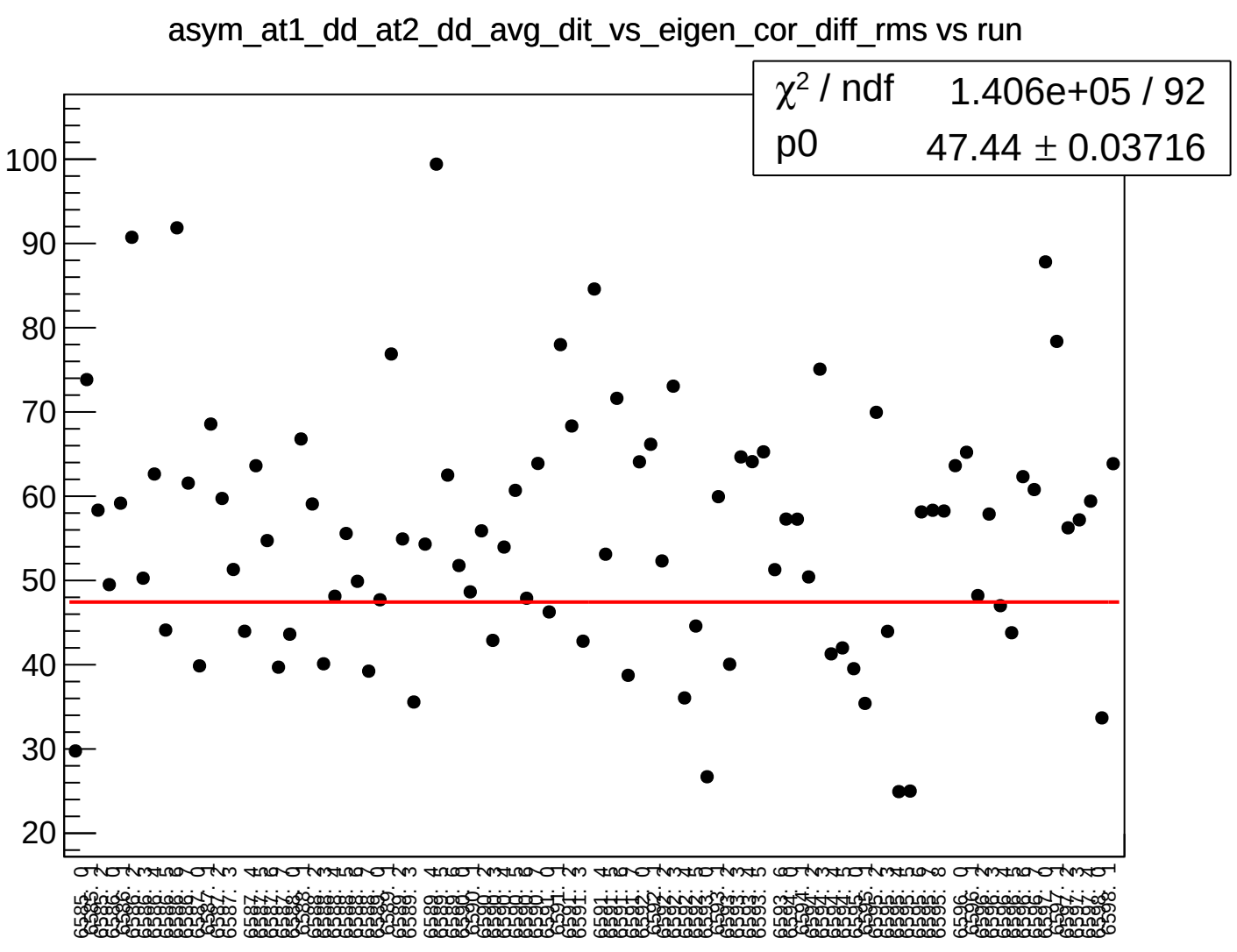

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.42 / 92
p0 −5.936e−15 ± 1.642e−14
pull
Entries 93
Mean 59.7
Std Dev 0
pull1D
Entries 93
Mean −0.04915
Std Dev 0.9051

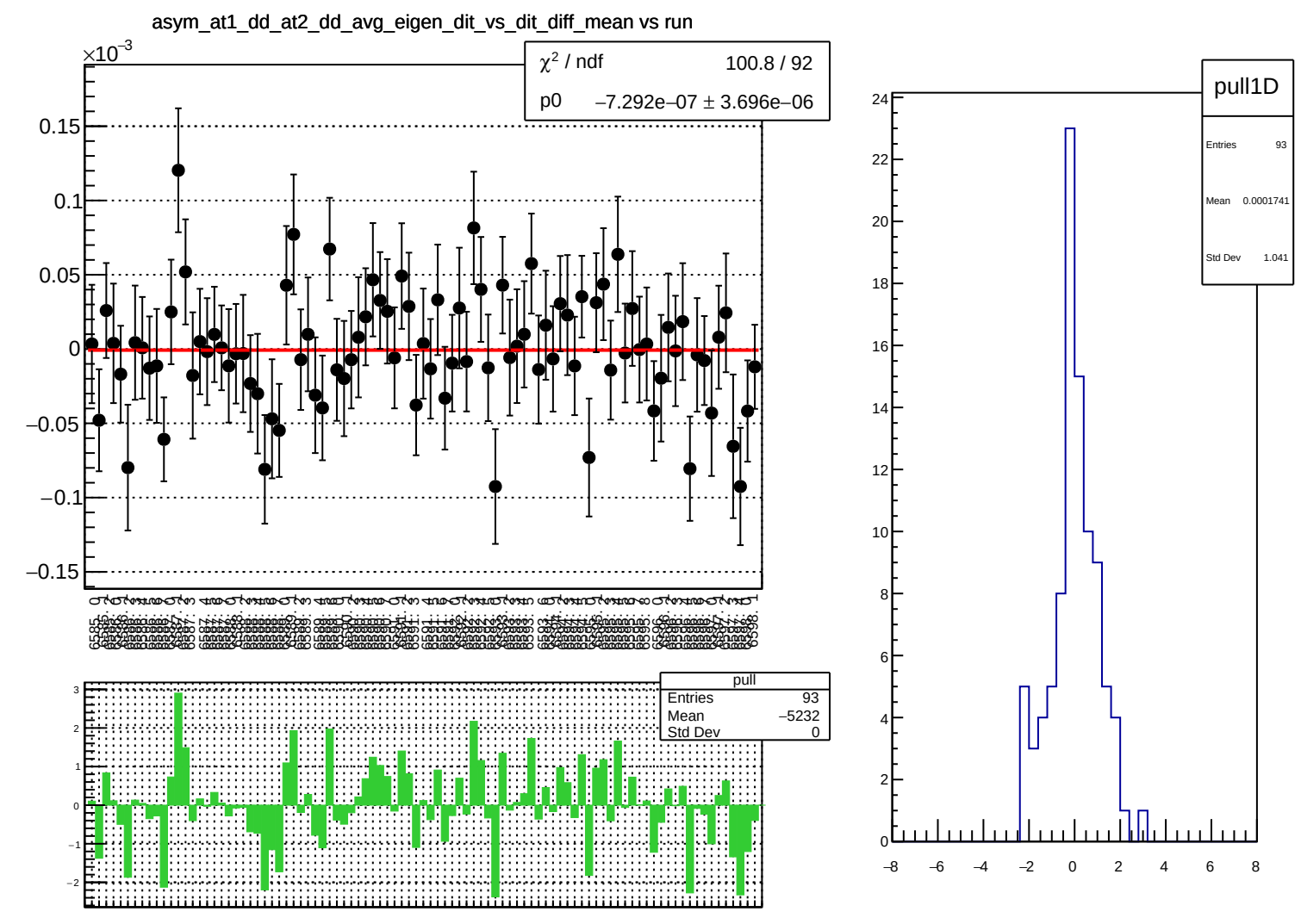

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.177e+06 / 92
p0 8.948e−12 ± 1.161e−14
1.2
1
0.8
0.6
0.4
0.2
0

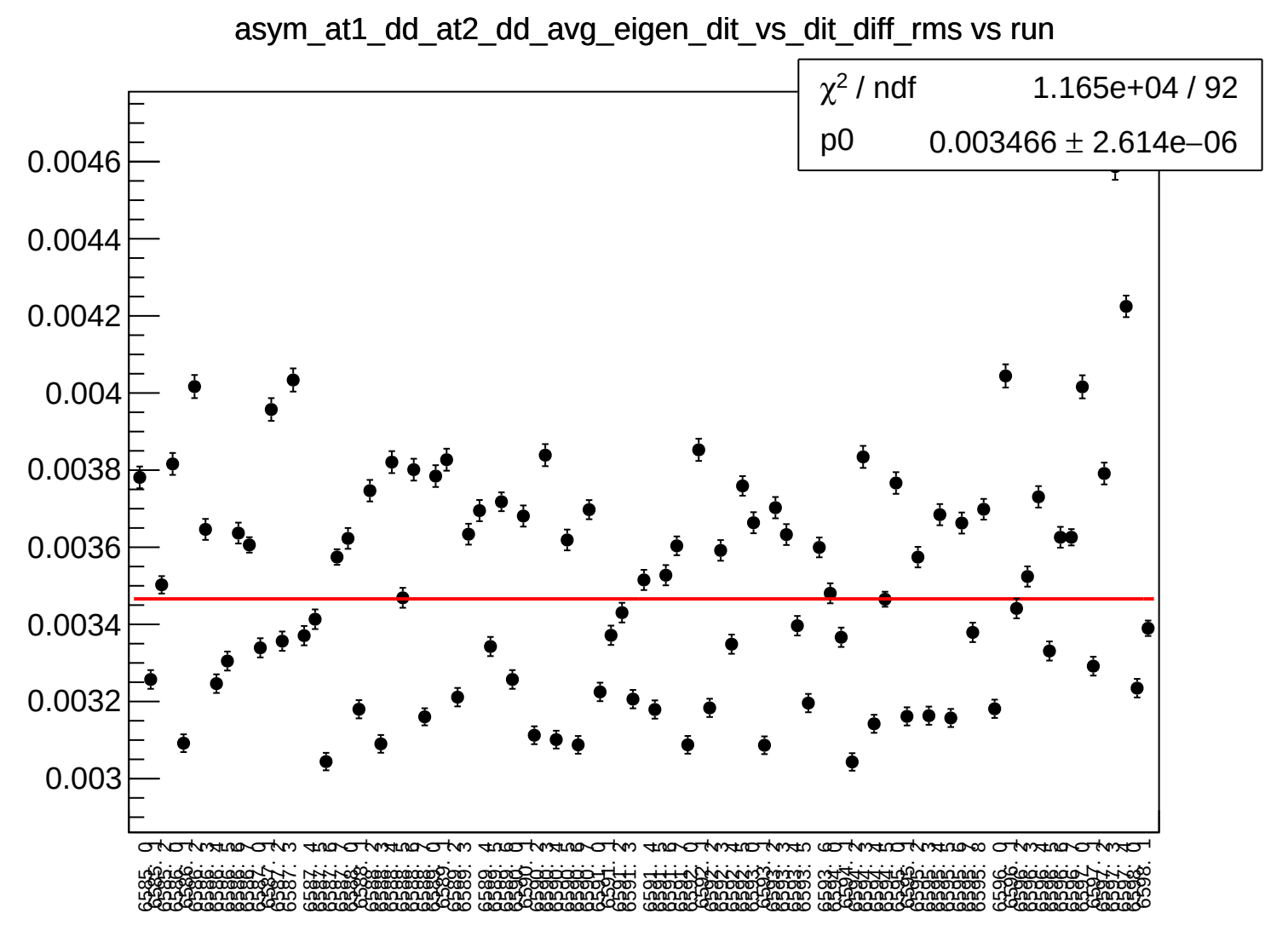

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 92
p0 −0.05266 ± 0.05255
pull
Entries 93
Mean −12.38
Std Dev 0
pull1D
Entries 93
Mean 0.03766
Std Dev 1.086

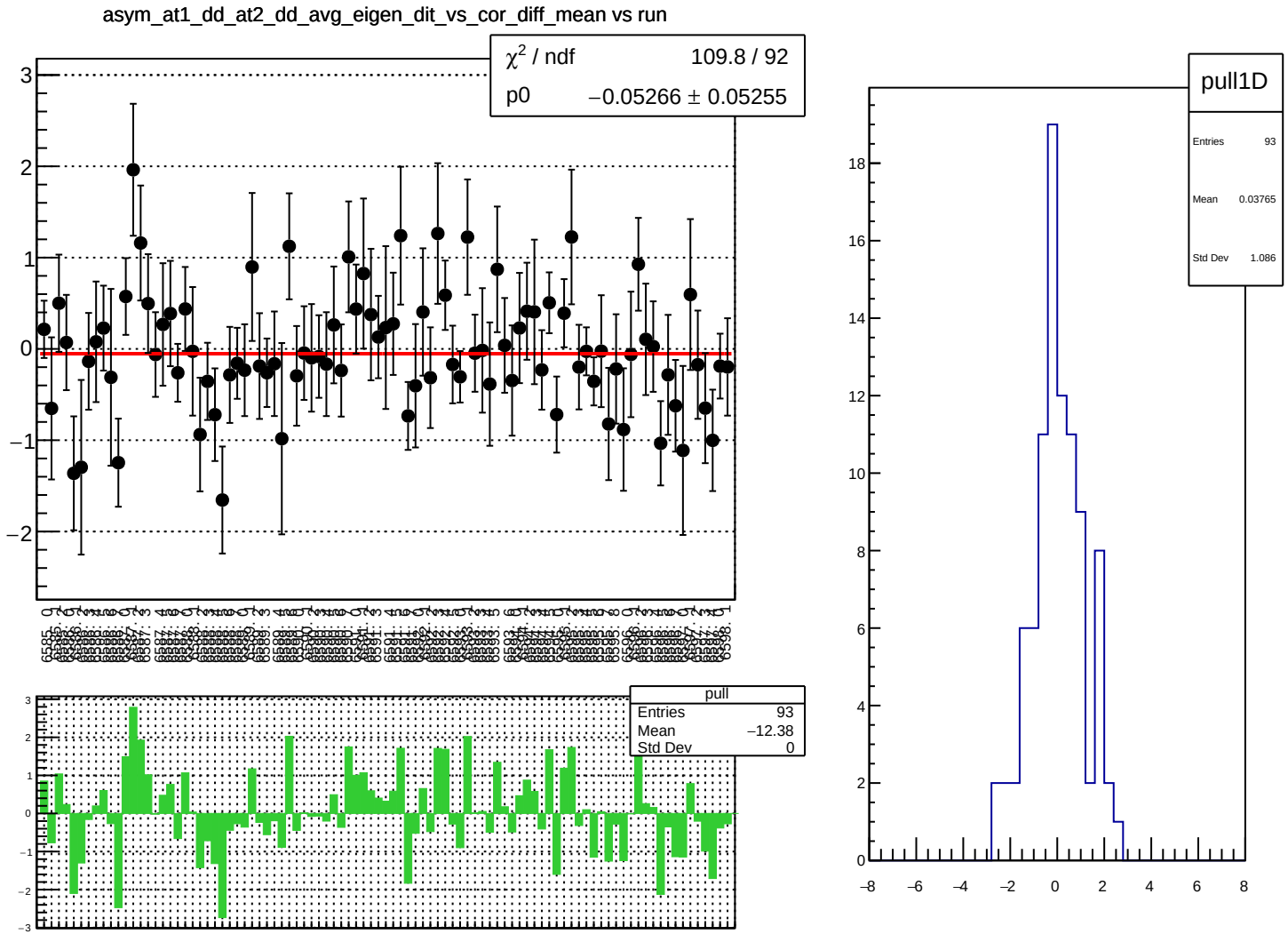

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 92
p0 47.44 ± 0.03716
100
90
80
70
60
50
40
30
20

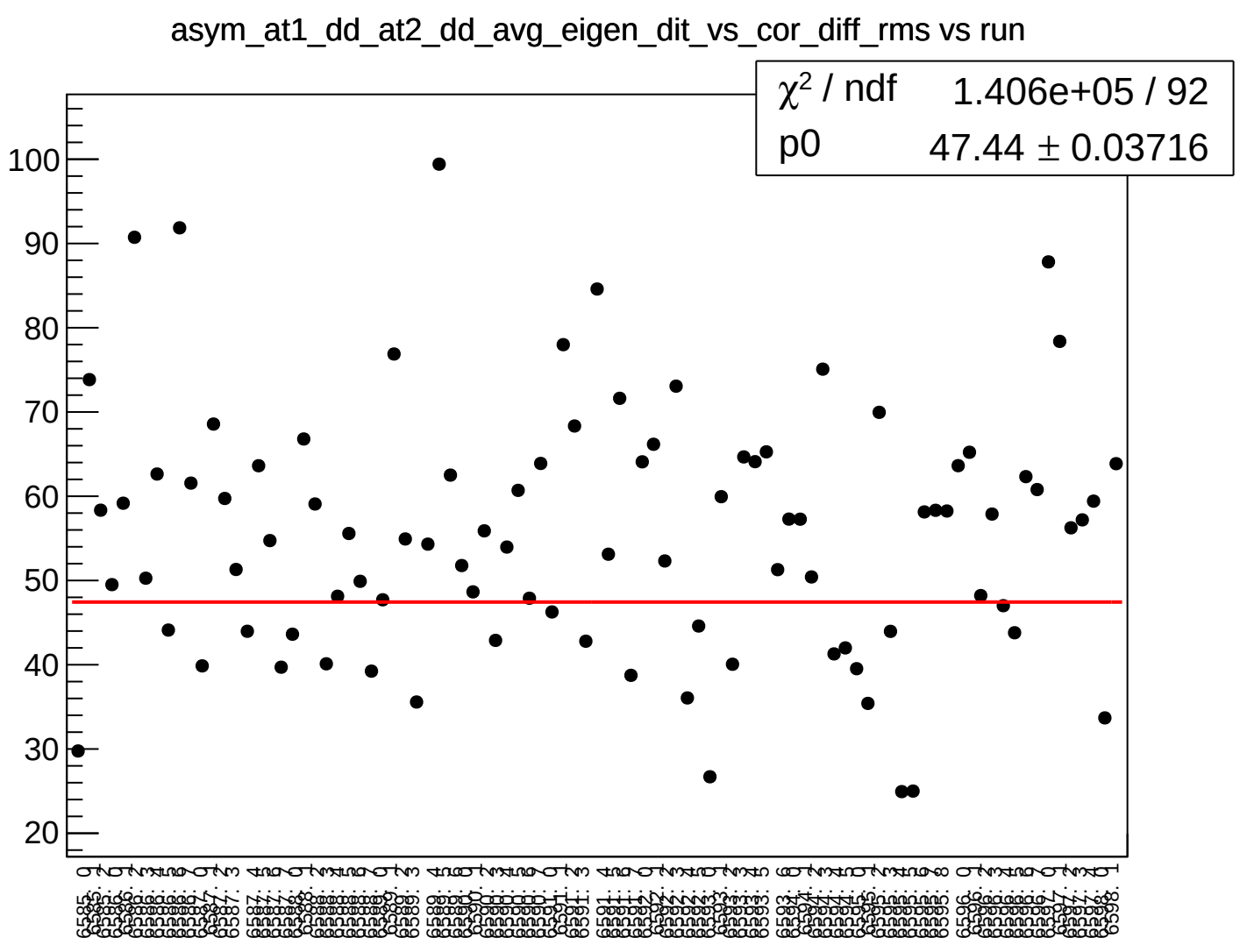

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 92
p0 −0.05266 ± 0.05255
pull
Entries 93
Mean −12.38
Std Dev 0
pull1D
Entries 93
Mean 0.03766
Std Dev 1.086

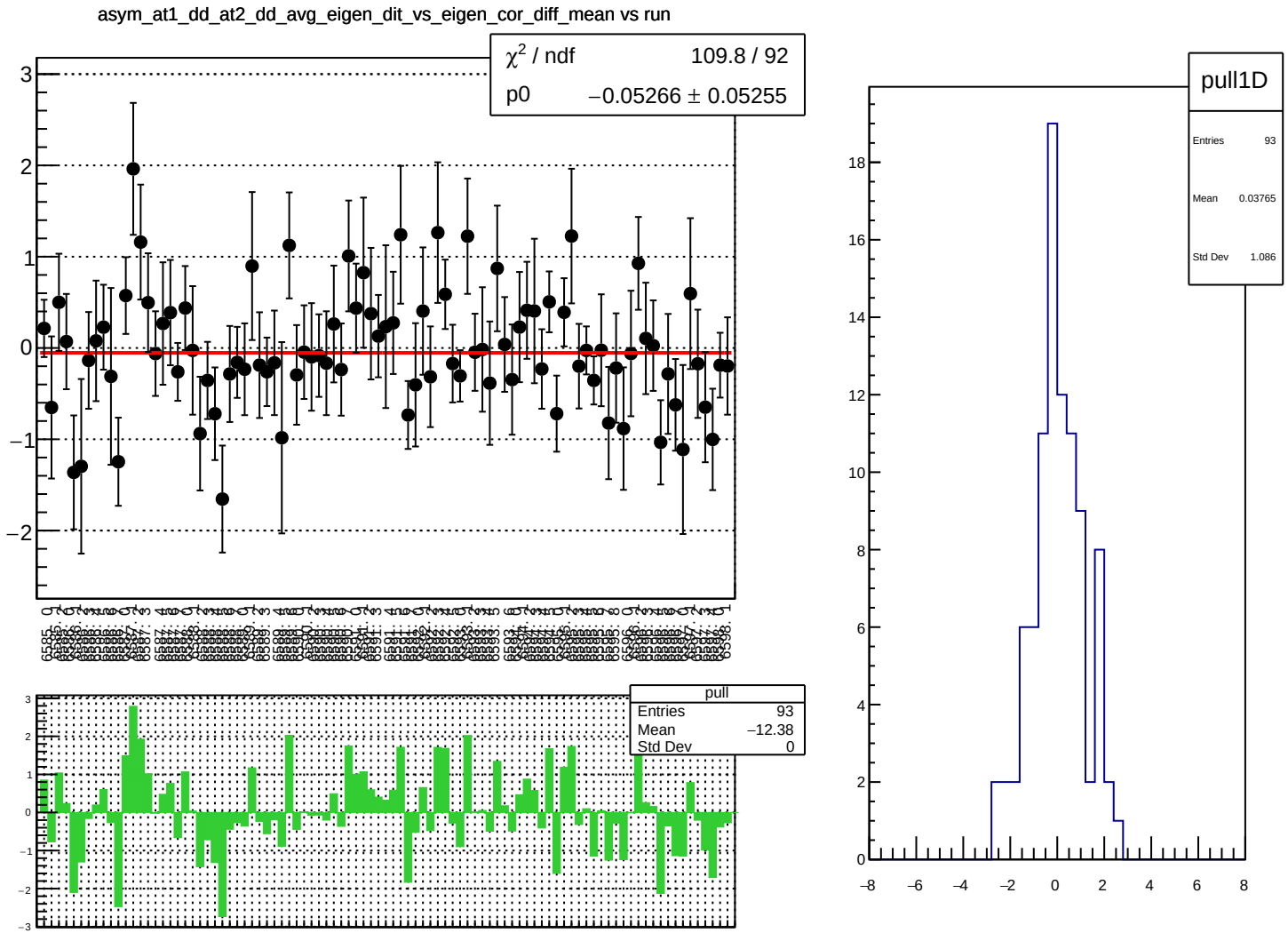

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 92
p0 47.44 ± 0.03716
100
90
80
70
60
50
40
30
20

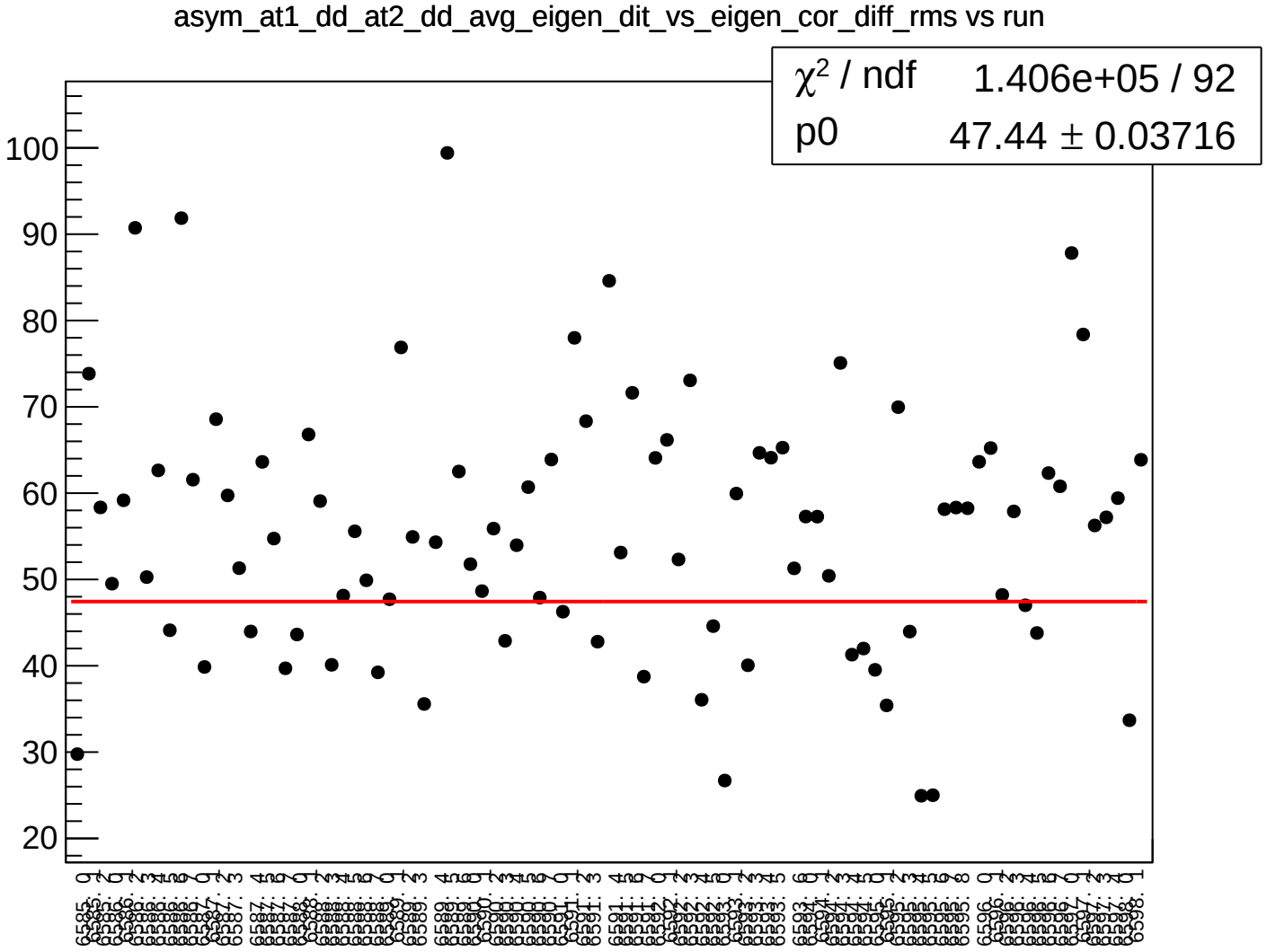

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.8 / 92
p0 −7.292e−07 ± 3.696e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean −5232
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0001741
Std Dev 1.041
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

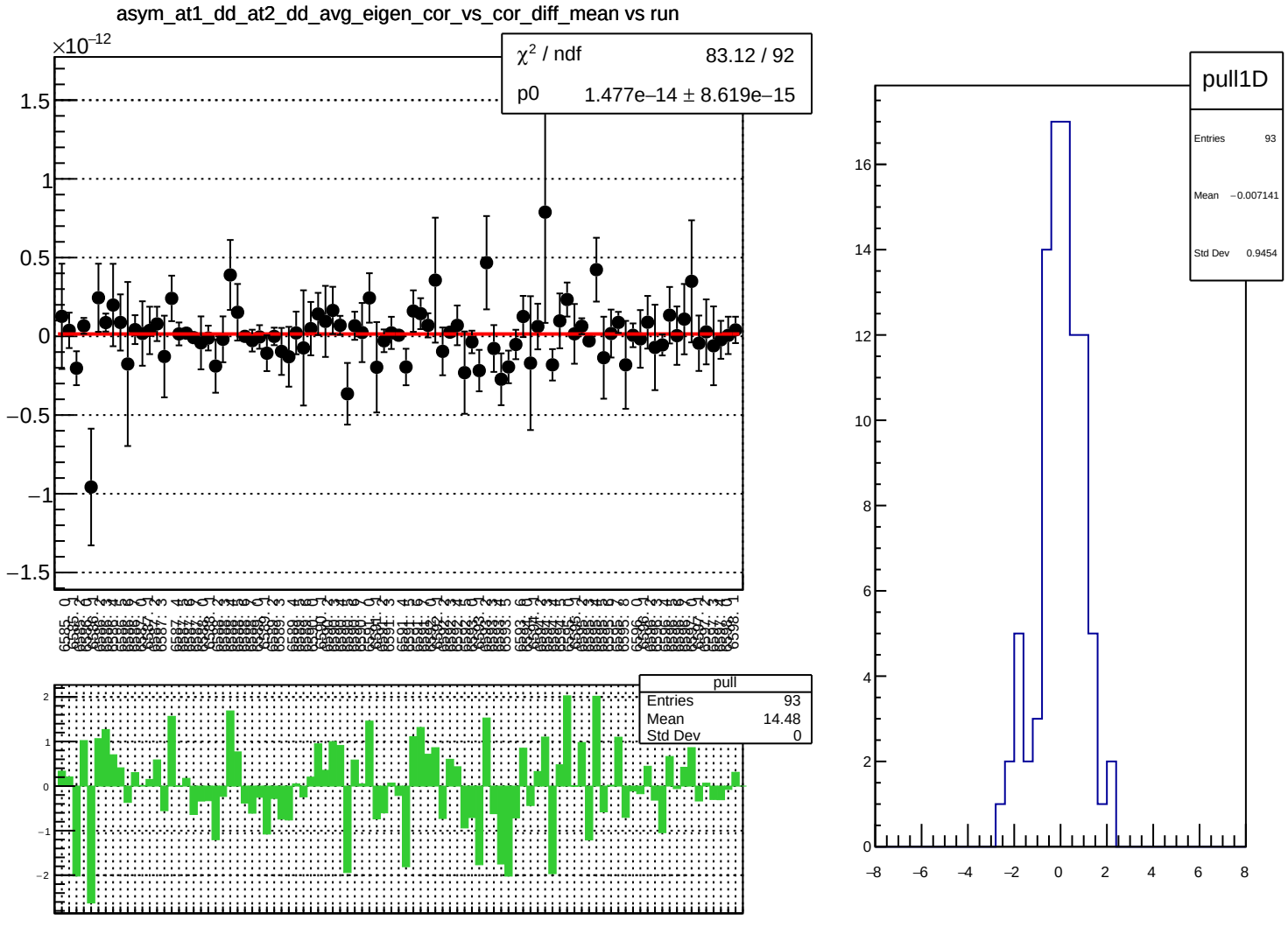

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.165e+04 / 92
p0 0.003466 ± 2.614e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

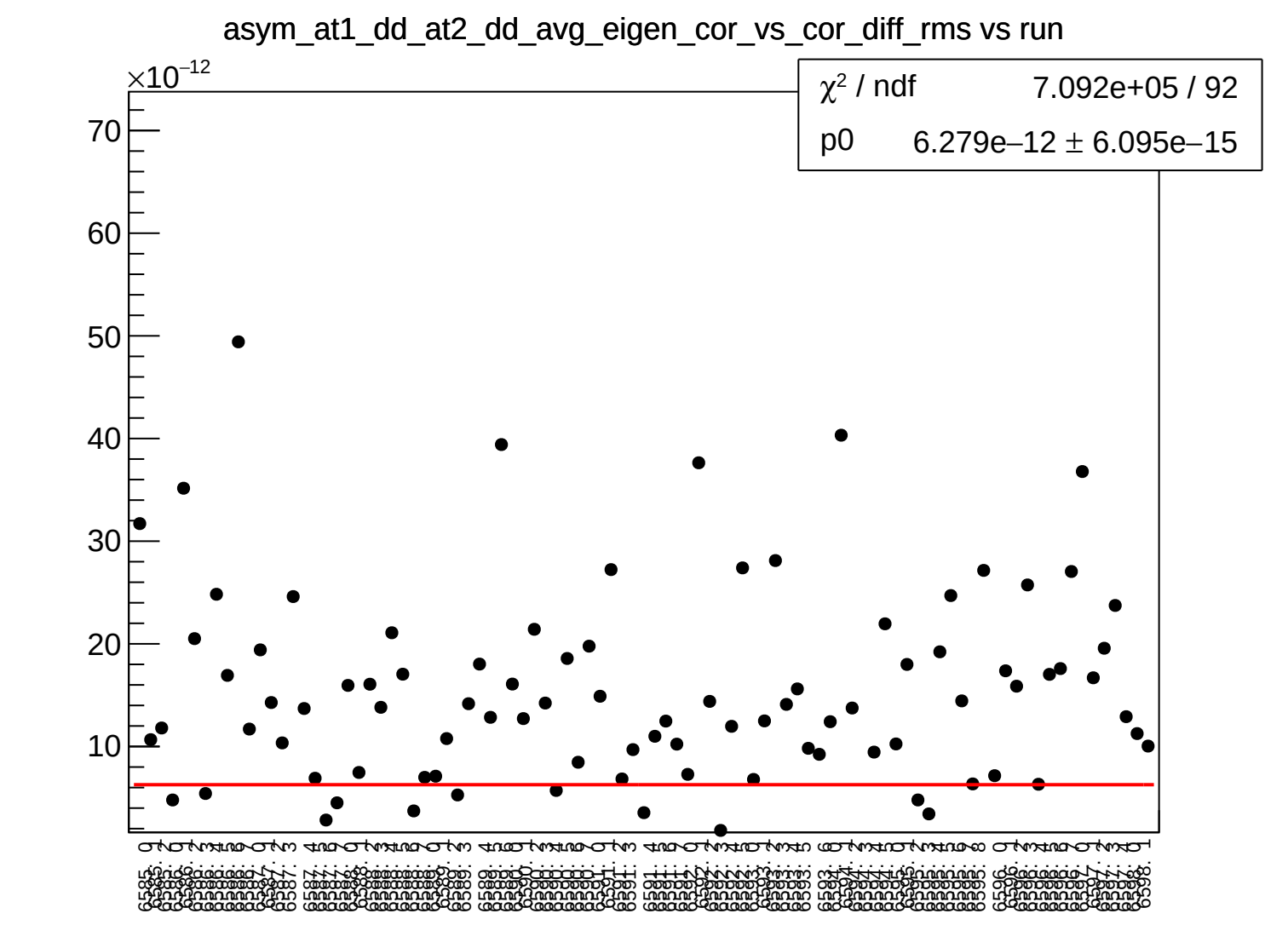

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 92
p0 −0.05266 ± 0.05255
pull
Entries 93
Mean −12.38
Std Dev 0
pull1D
Entries 93
Mean 0.03765
Std Dev 1.086

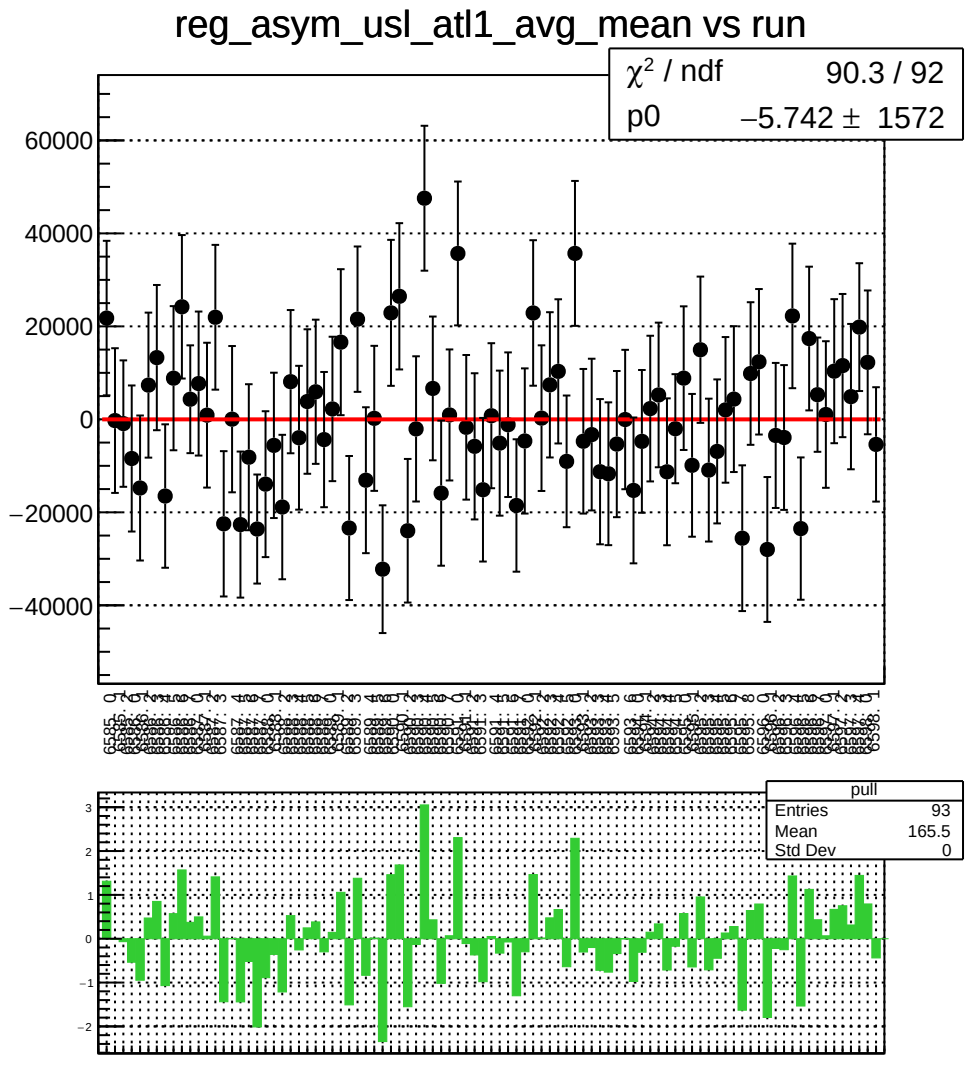

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 92
p0 47.44 ± 0.03716
100
90
80
70
60
50
40
30
20

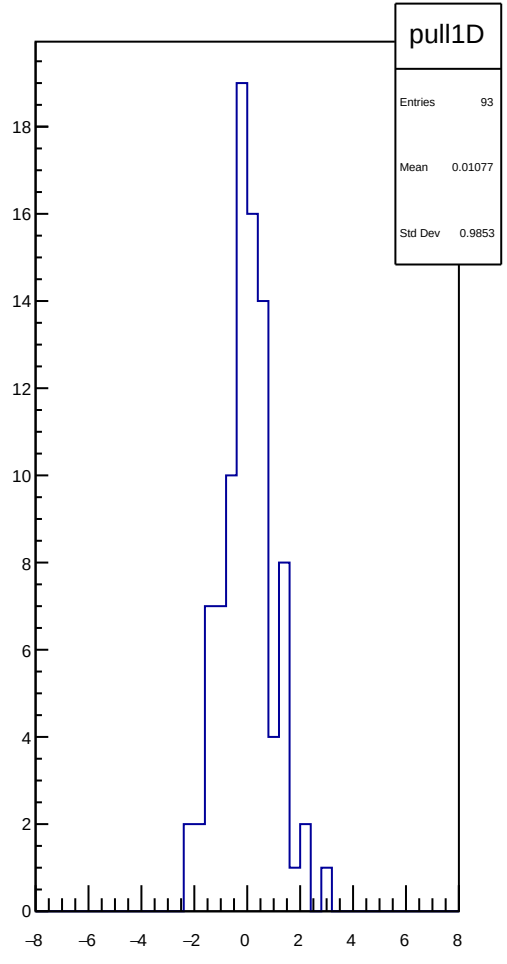

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 92
p0 −0.05266 ± 0.05255
pull
Entries 93
Mean −12.38
Std Dev 0
pull1D
Entries 93
Mean 0.03765
Std Dev 1.086

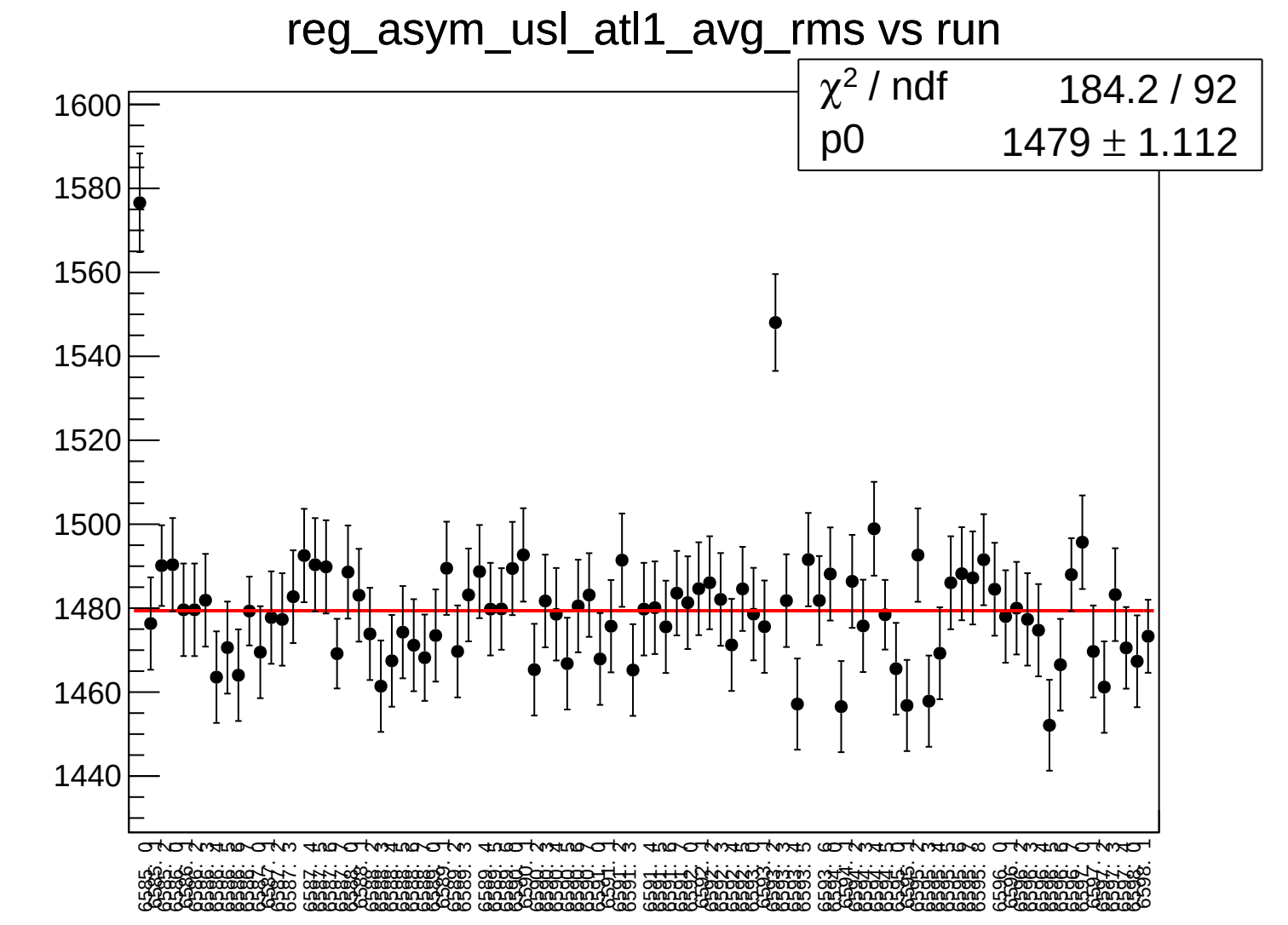

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.406e+05 / 92
p0 47.44 ± 0.03716
100
90
80
70
60
50
40
30
20

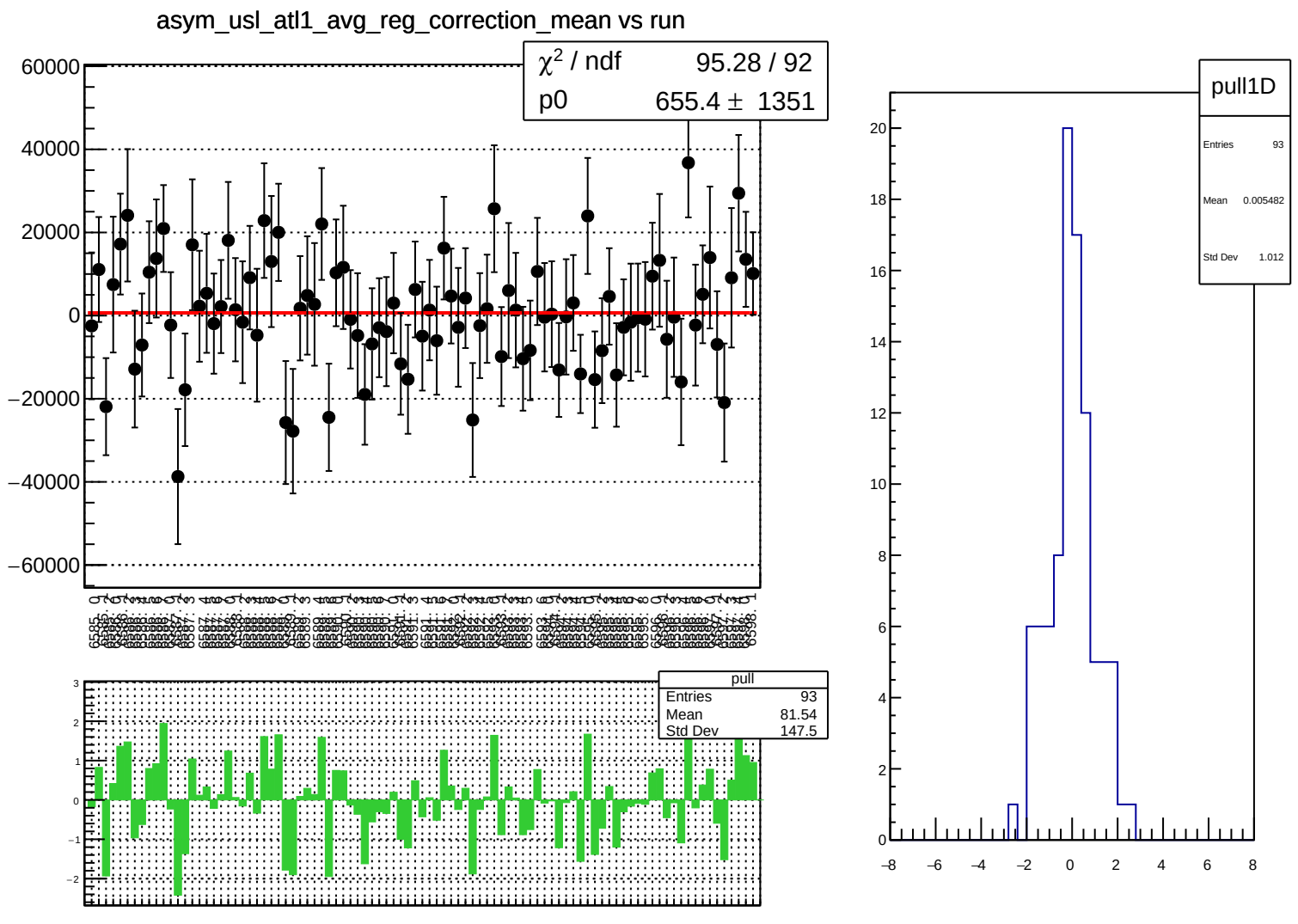

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.12 / 92
p0 1.477e−14 ± 8.619e−15
pull
Entries 93
Mean 14.48
Std Dev 0
pull1D
Entries 93
Mean −0.007141
Std Dev 0.9454

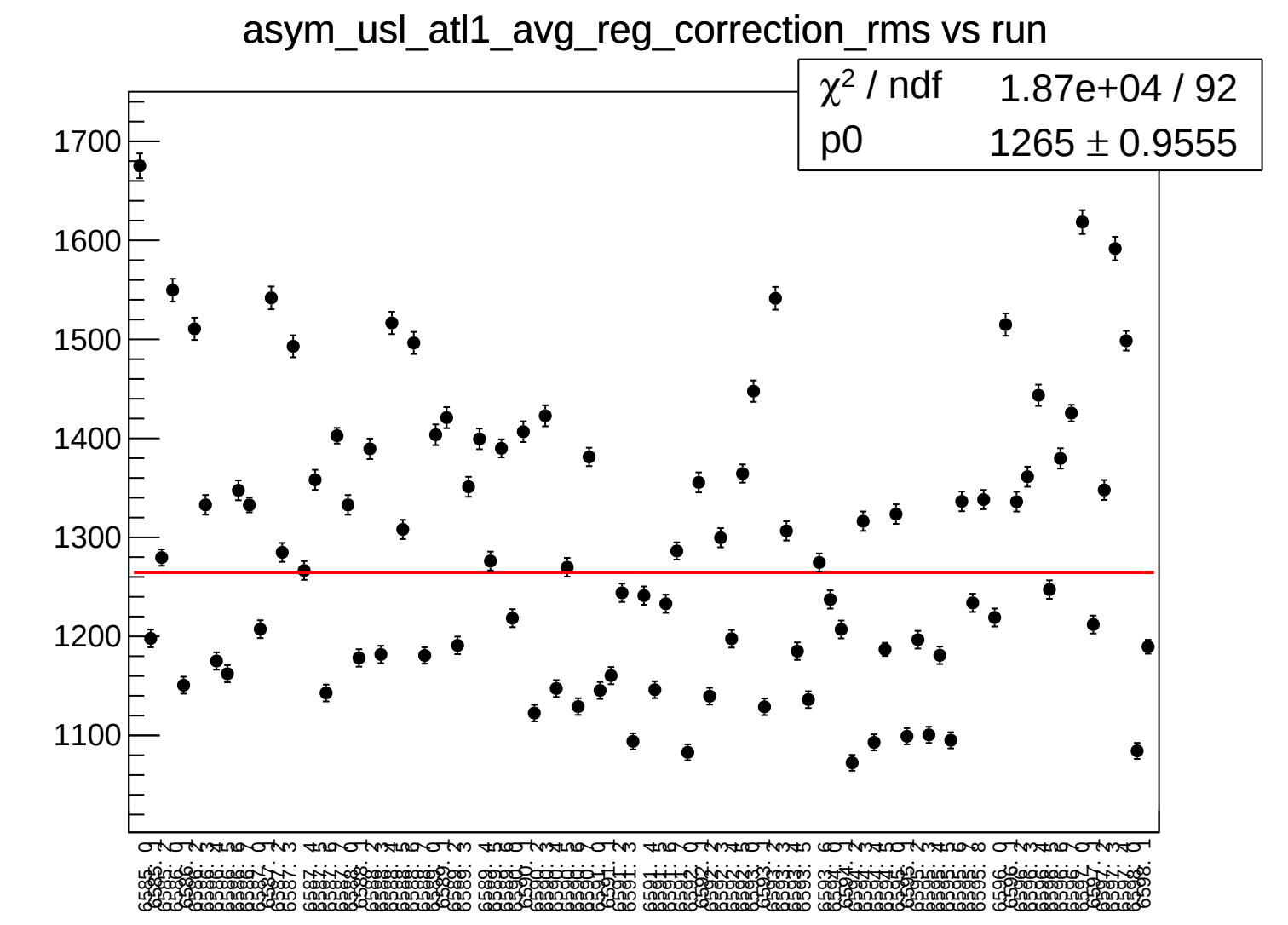

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.092e+05 / 92
p0 6.279e−12 ± 6.095e−15
70
60
50
40
30
20
10

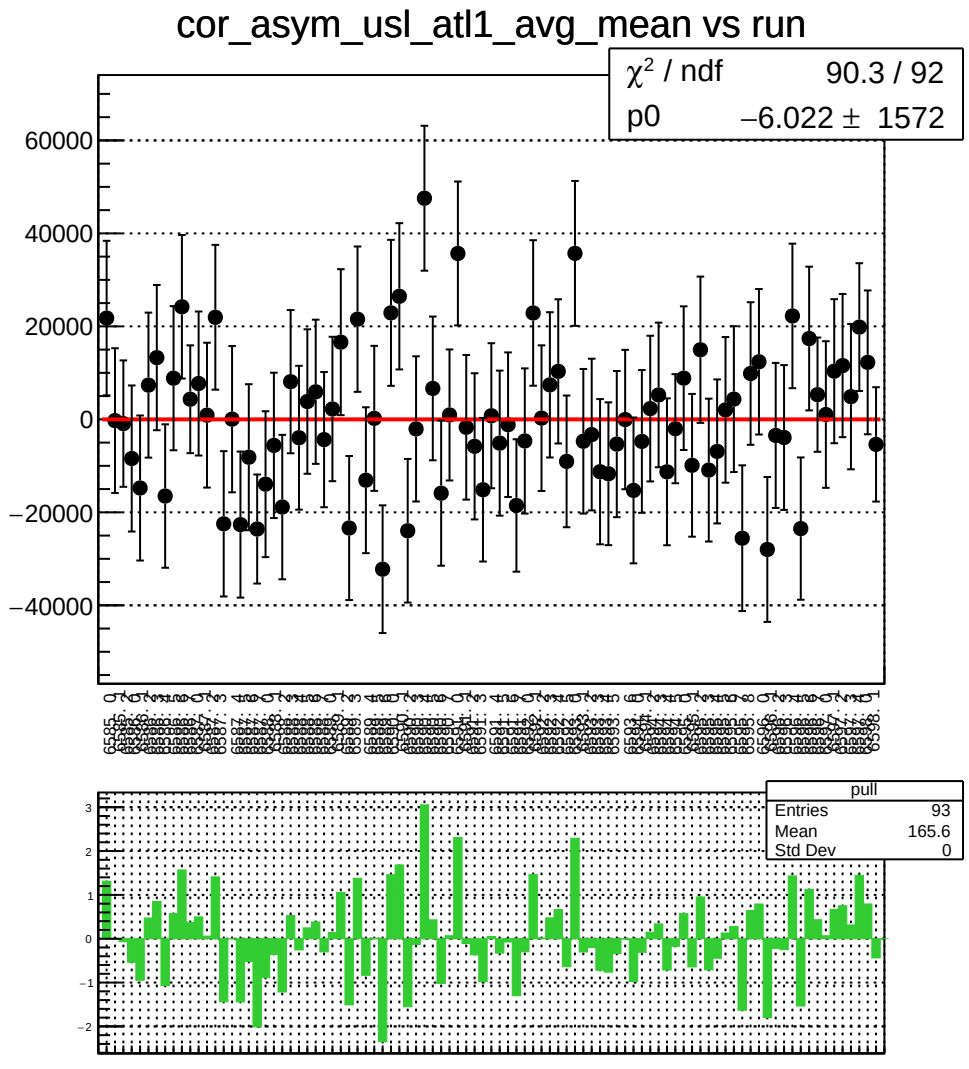

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 90.3 / 92
p0 −5.742 ± 1572
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 165.5
Std Dev 0
3
2
1
0
−1
−2

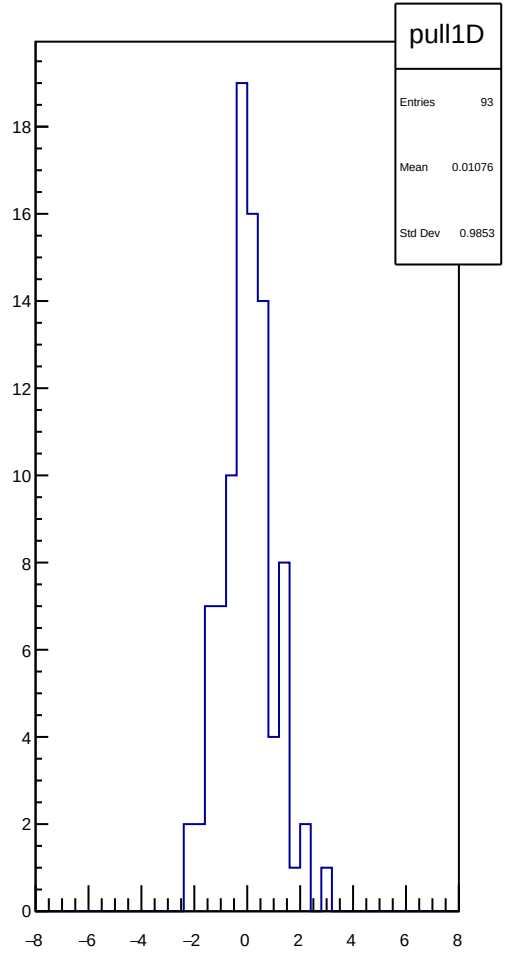

pull1D
Entries 93
Mean 0.01077
Std Dev 0.9853
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

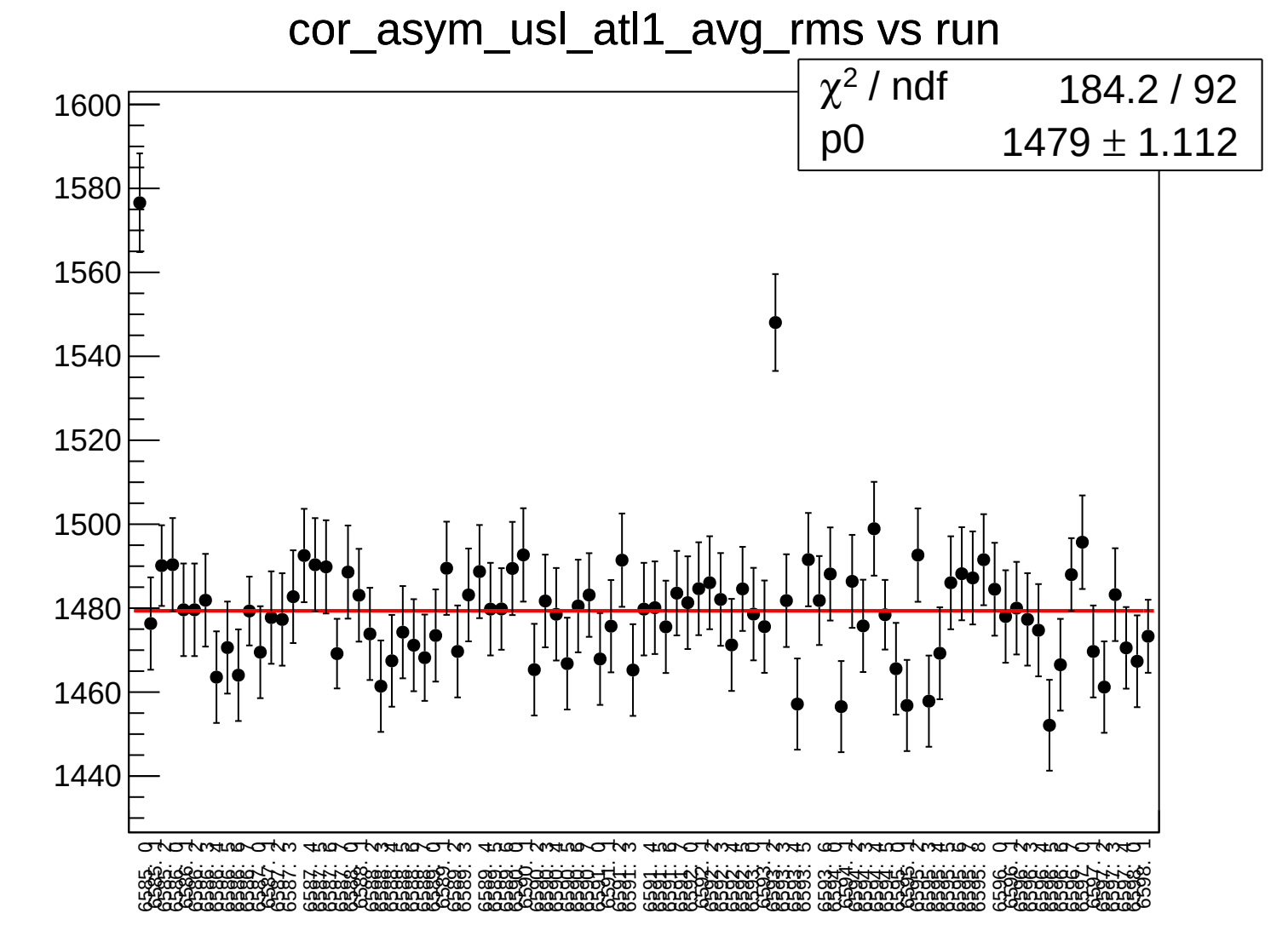

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 184.2 / 92
p0 1479 ± 1.112
1600
1580
1560
1540
1520
1500
1480
1460
1440

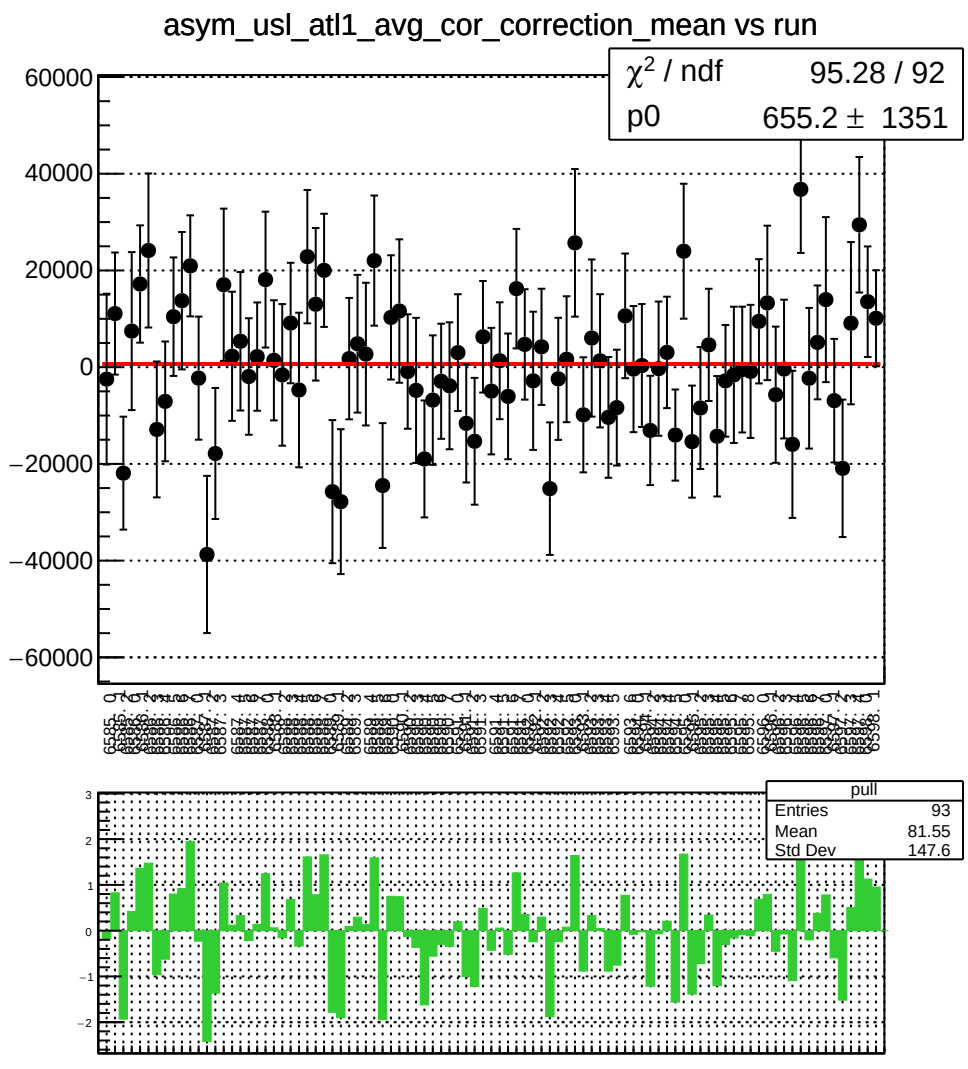

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 95.28 / 92
p0 655.4 ± 1351
pull
Entries 93
Mean 81.54
Std Dev 147.5
pull1D
Entries 93
Mean 0.005482
Std Dev 1.012

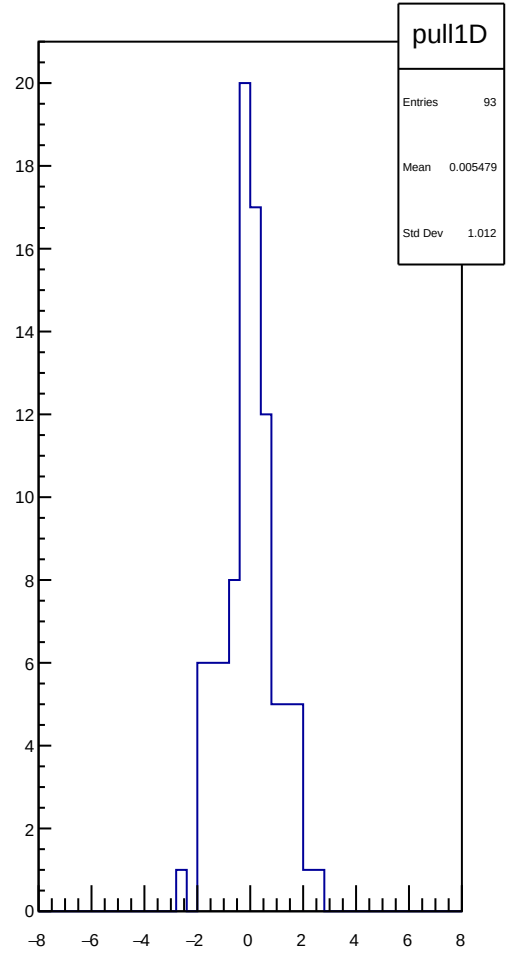

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.87e+04 / 92
p0 1265 ± 0.9555
1700
1600
1500
1400
1300
1200
1100

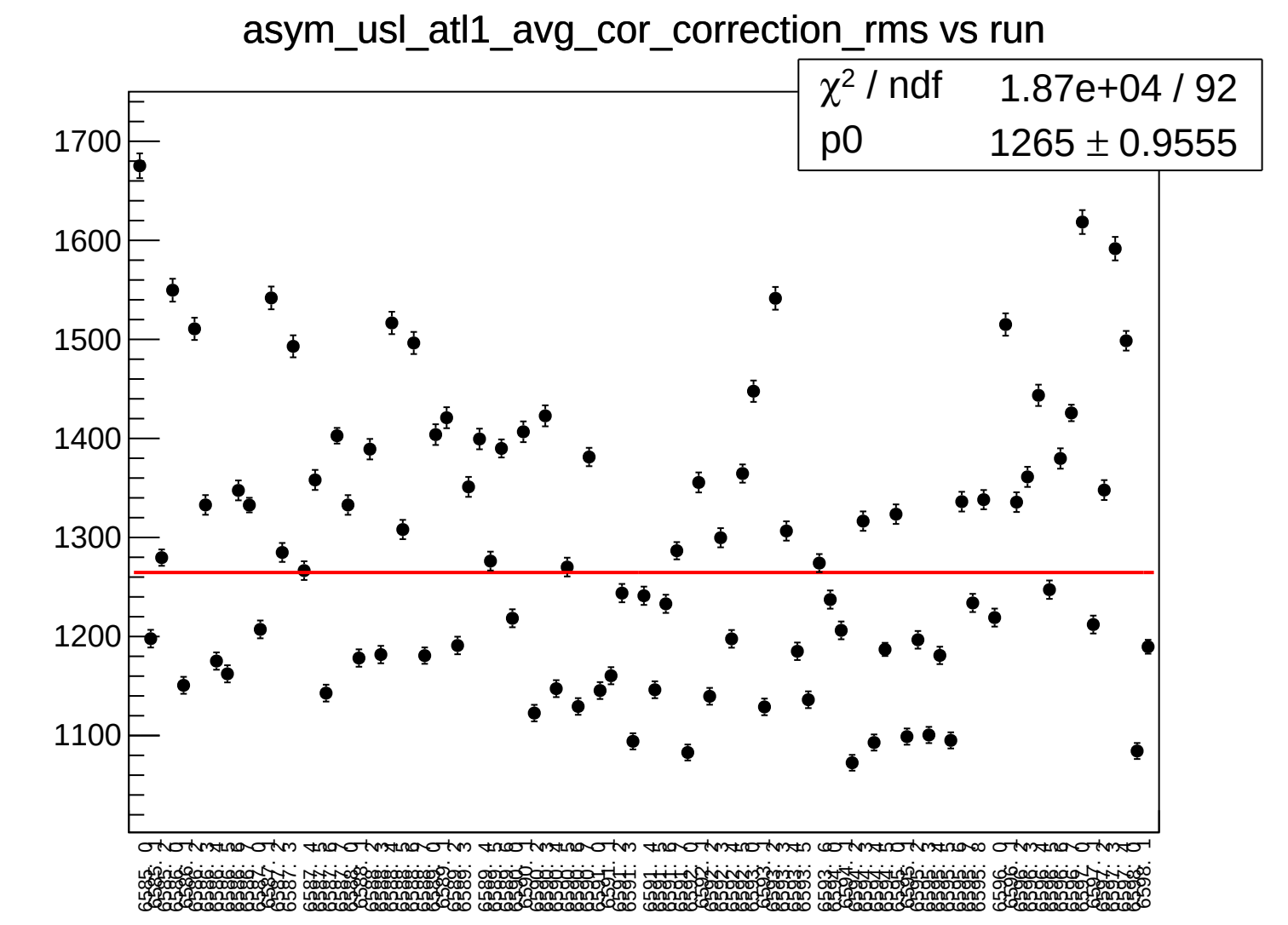

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 90.3 / 92
p0 −6.022 ± 1572
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 165.6
Std Dev 0
3
2
1
0
−1
−2

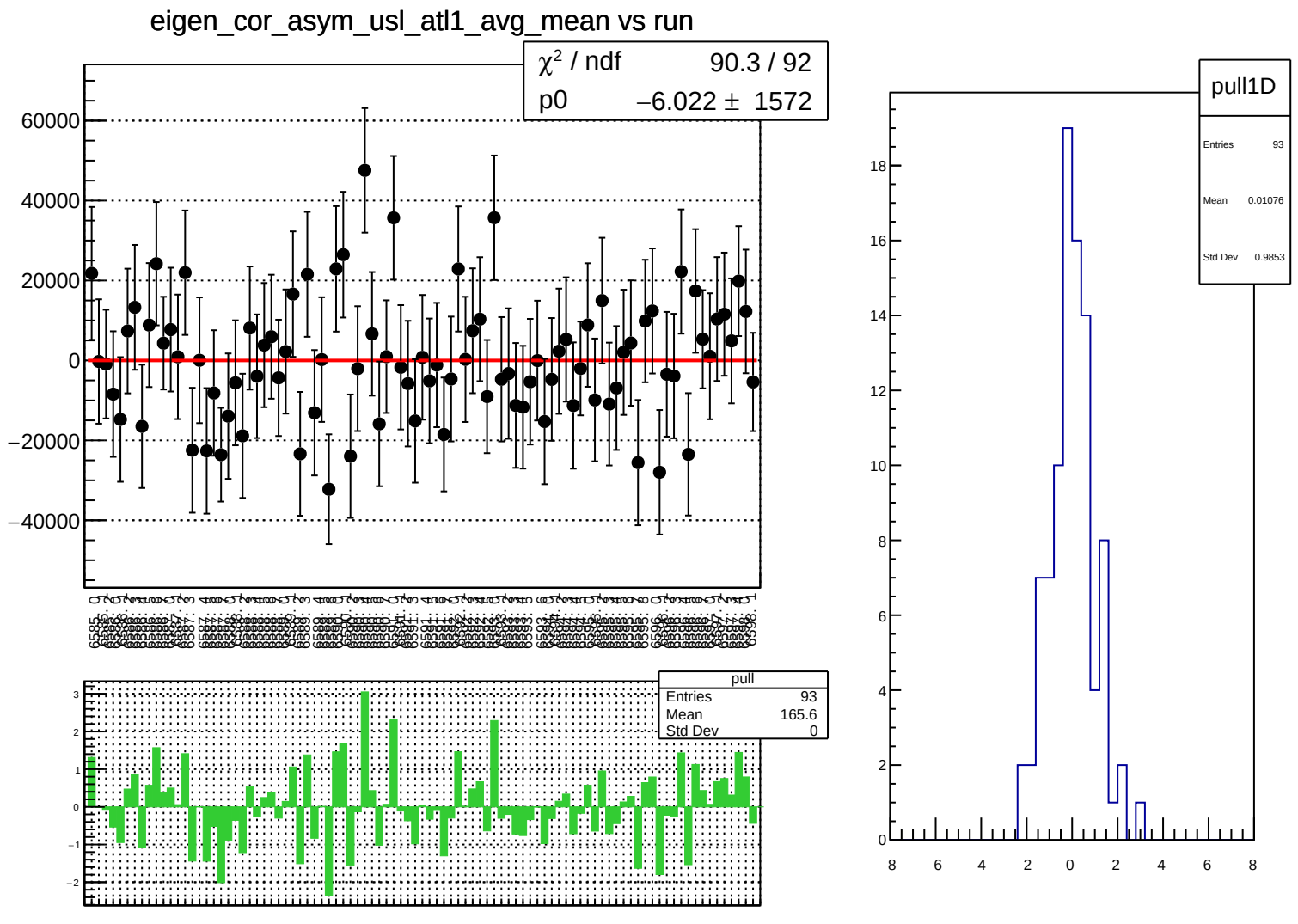

pull1D
Entries 93
Mean 0.01076
Std Dev 0.9853
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

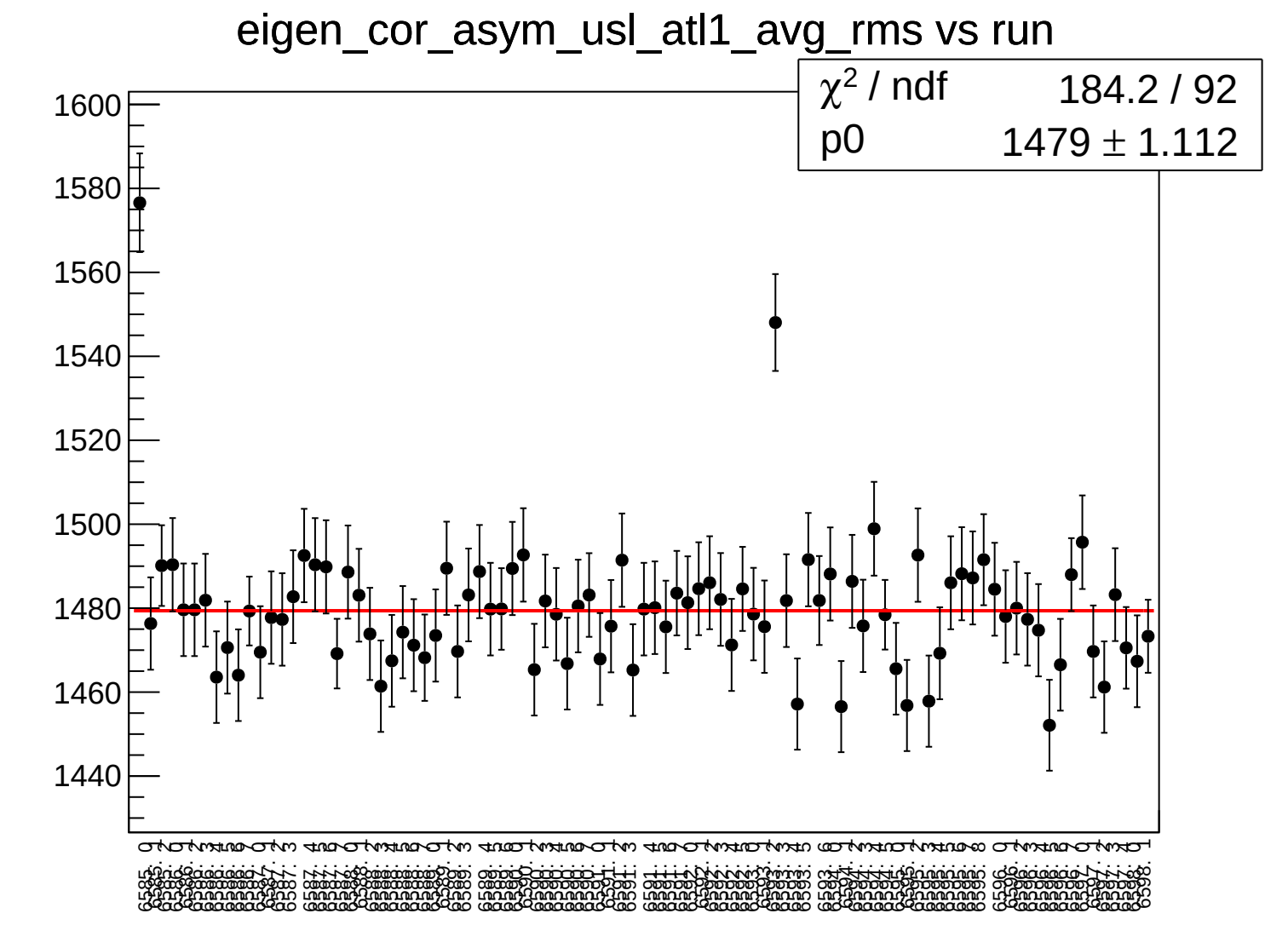

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 184.2 / 92
p0 1479 ± 1.112
1600
1580
1560
1540
1520
1500
1480
1460
1440

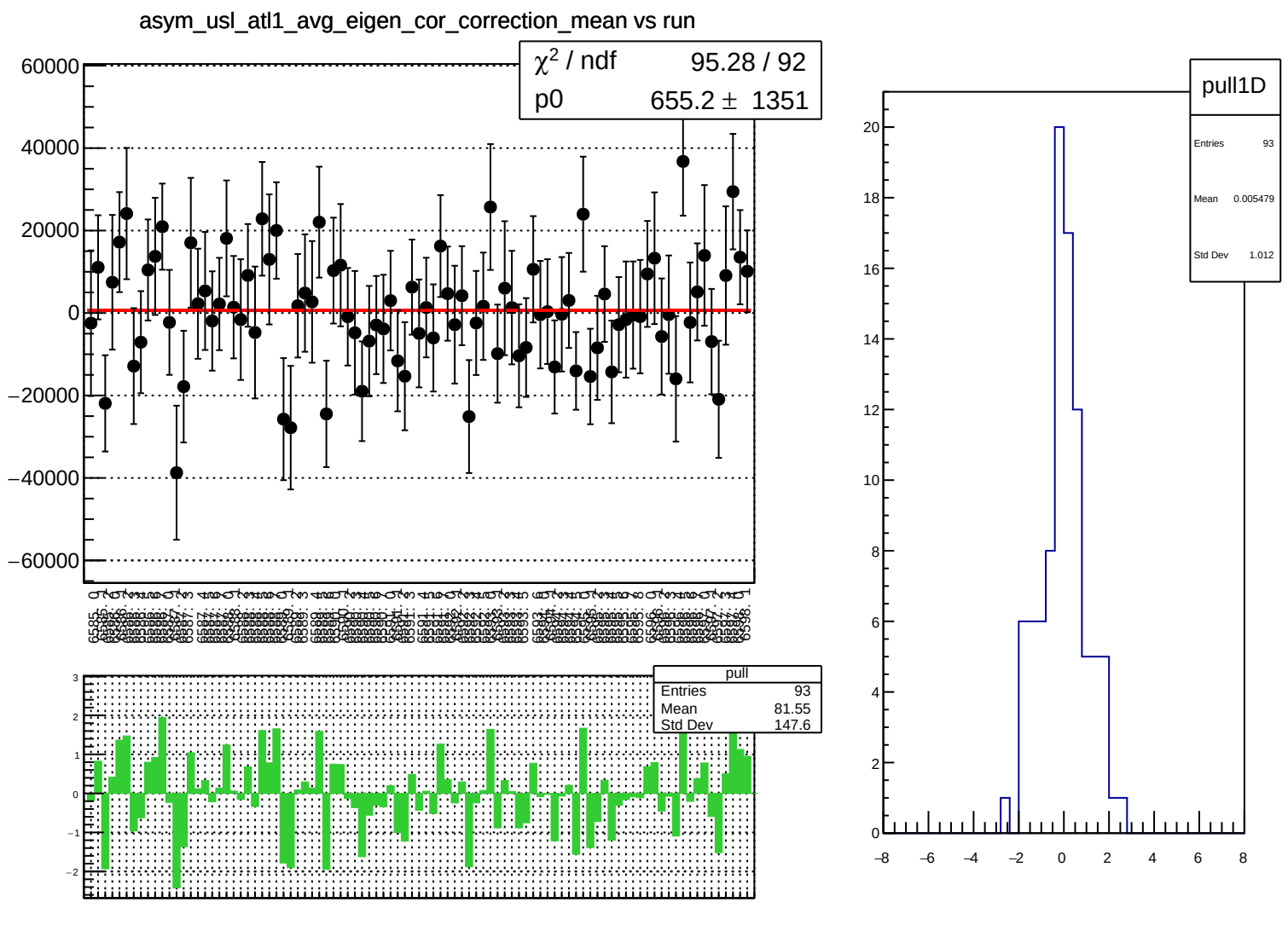

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 95.28 / 92
p0 655.2 ± 1351
pull
Entries 93
Mean 81.55
Std Dev 147.6

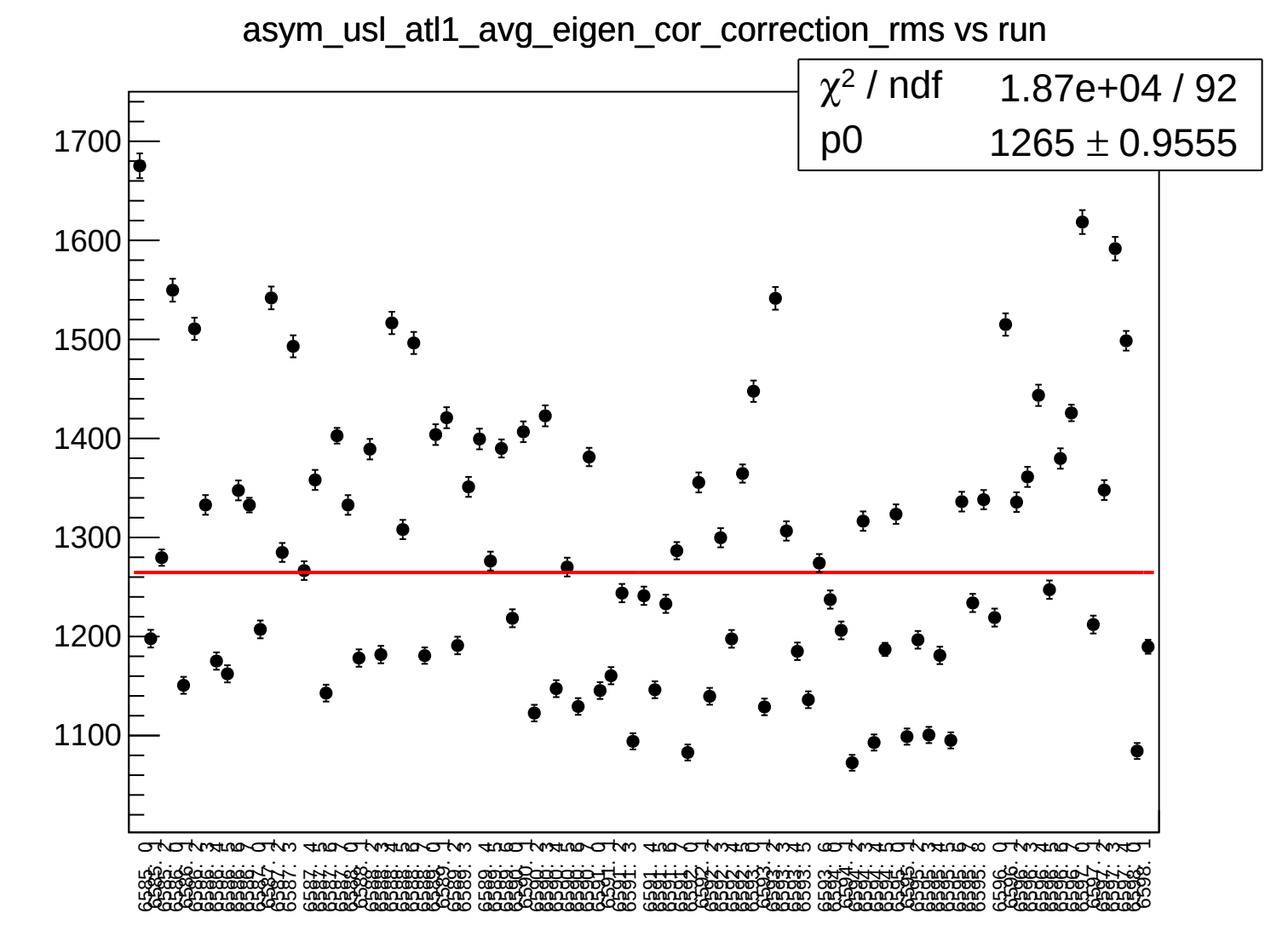

pull1D
Entries 93
Mean 0.005479
Std Dev 1.012

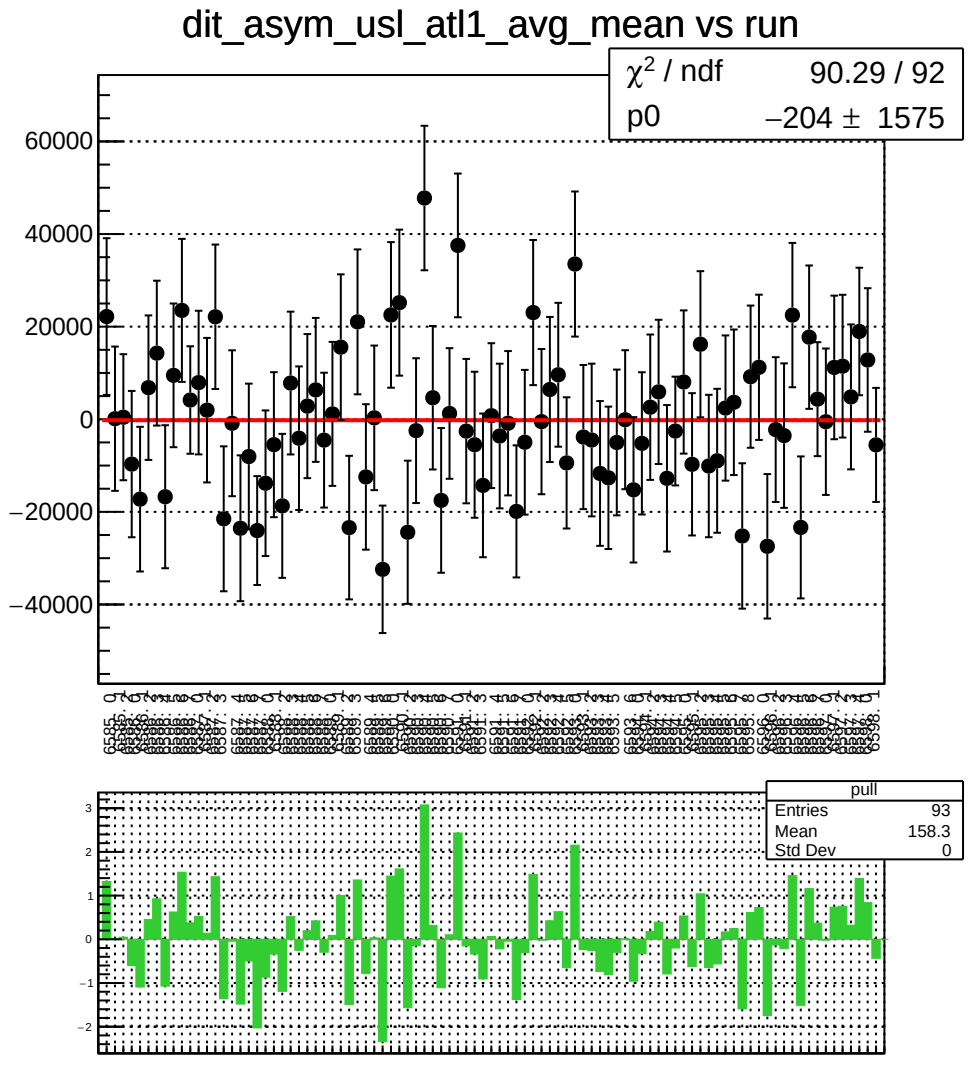

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.87e+04 / 92
p0 1265 ± 0.9555
1700
1600
1500
1400
1300
1200
1100

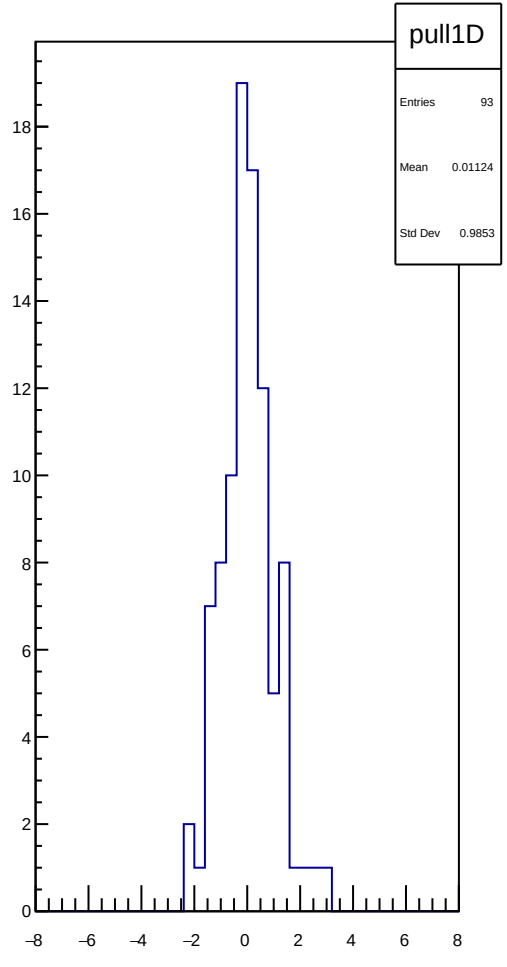

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 90.3 / 92
p0 −6.022 ± 1572
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 165.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01076
Std Dev 0.9853
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

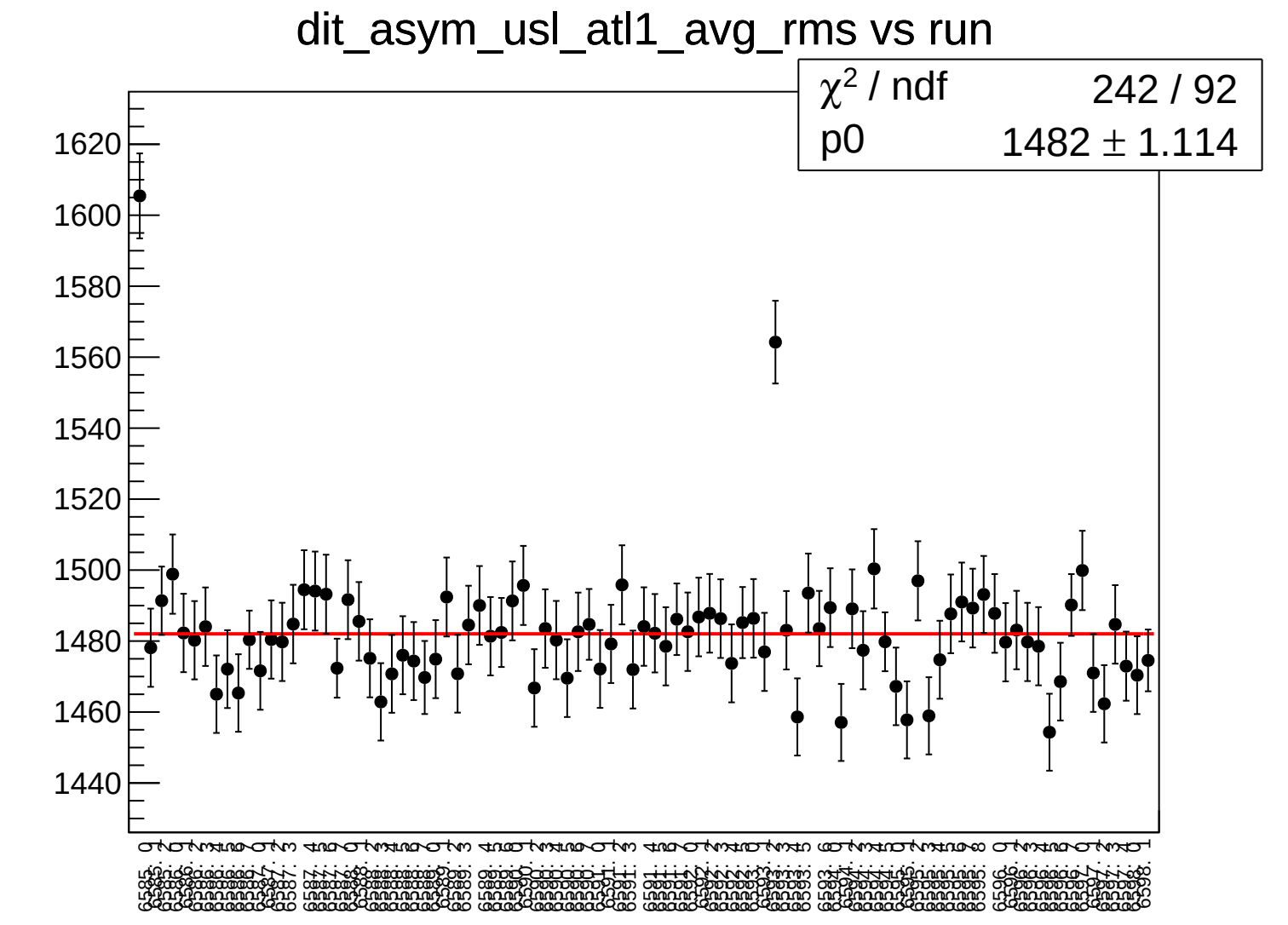

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 184.2 / 92
p0 1479 ± 1.112
1600
1580
1560
1540
1520
1500
1480
1460
1440

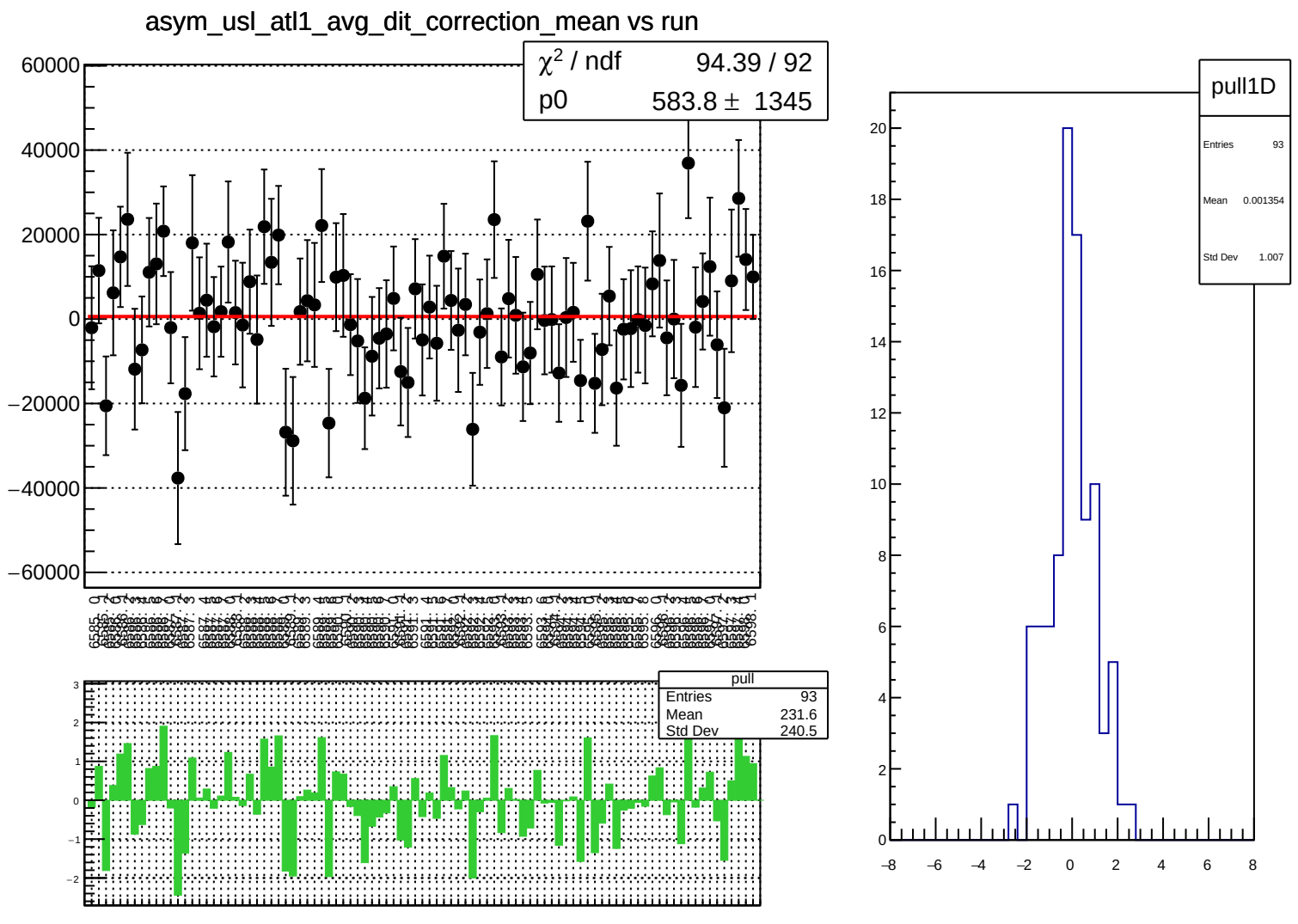

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.28 / 92
p0 655.2 ± 1351
pull
Entries 93
Mean 81.55
Std Dev 147.6
pull1D
Entries 93
Mean 0.005479
Std Dev 1.012

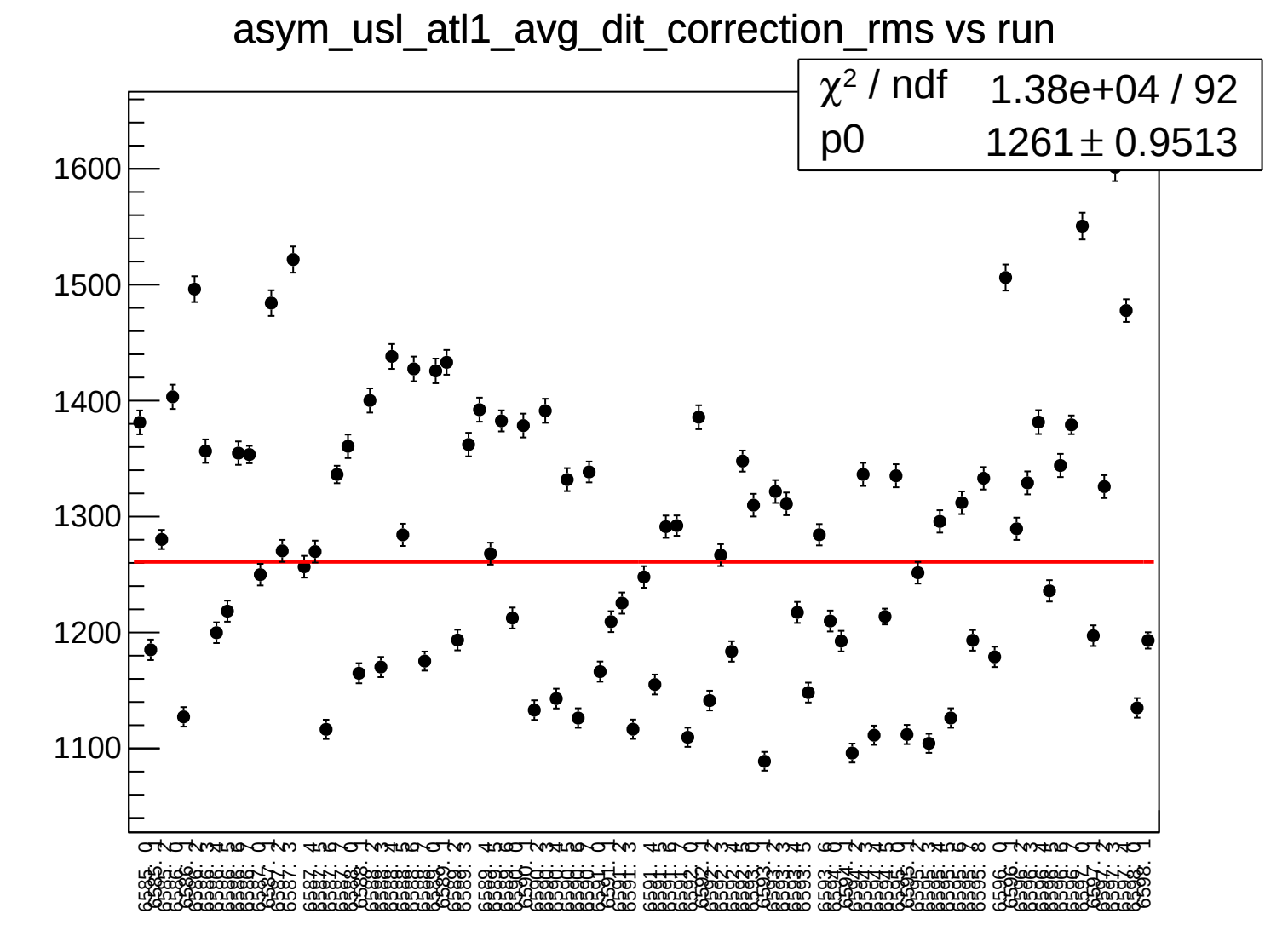

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.87e+04 / 92
p0 1265 ± 0.9555
1700
1600
1500
1400
1300
1200
1100

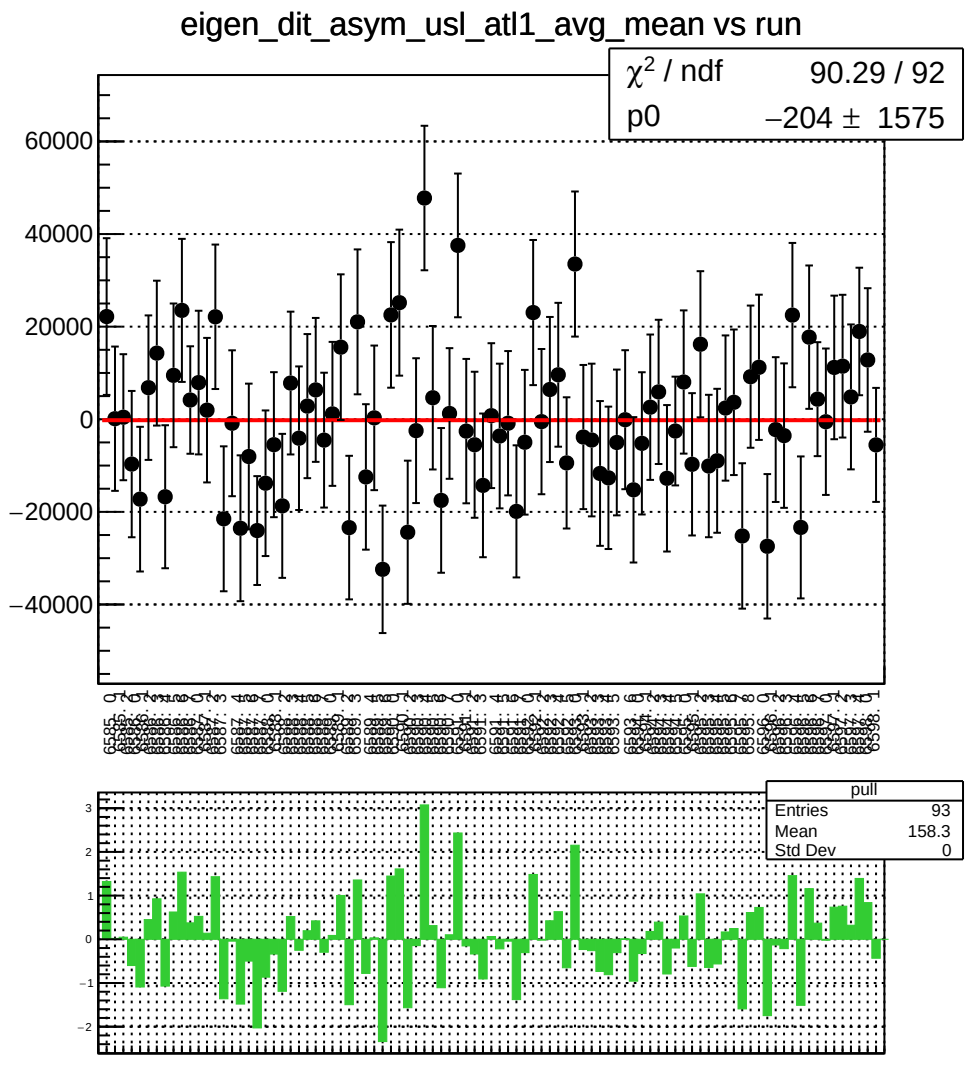

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 90.29 / 92
p0 −204 ± 1575
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 158.3
Std Dev 0
3
2
1
0
−1
−2

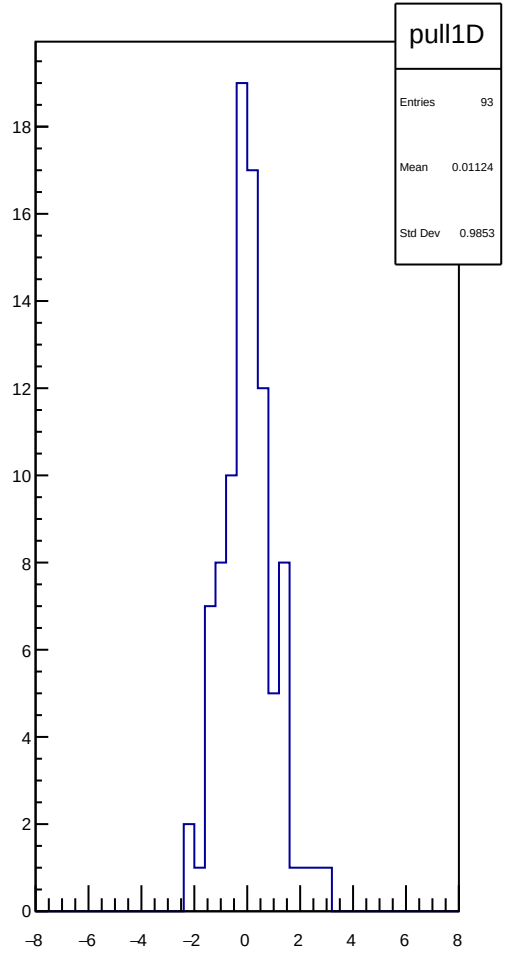

pull1D
Entries 93
Mean 0.01124
Std Dev 0.9853
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

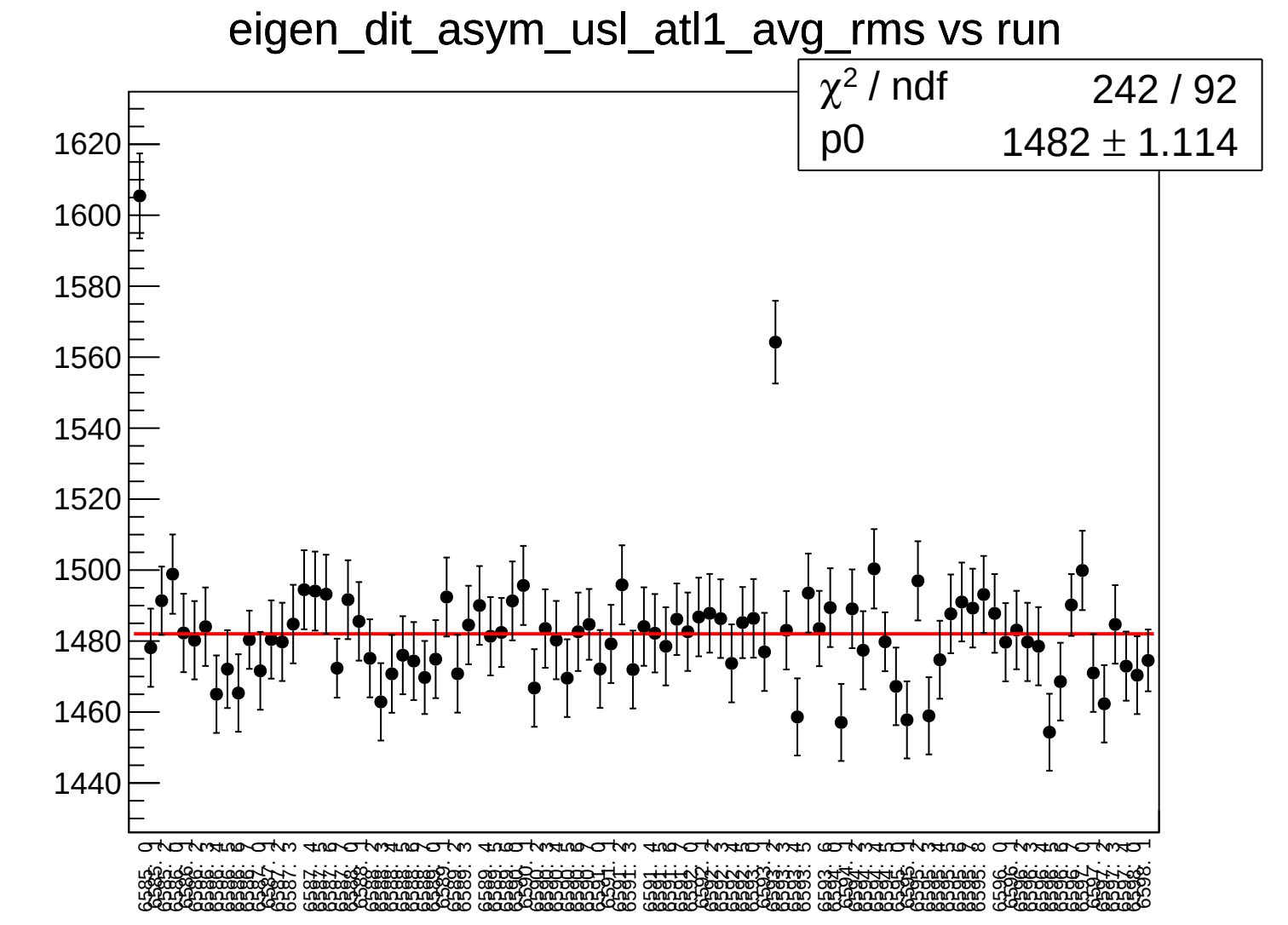

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 242 / 92
p0 1482 ± 1.114
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

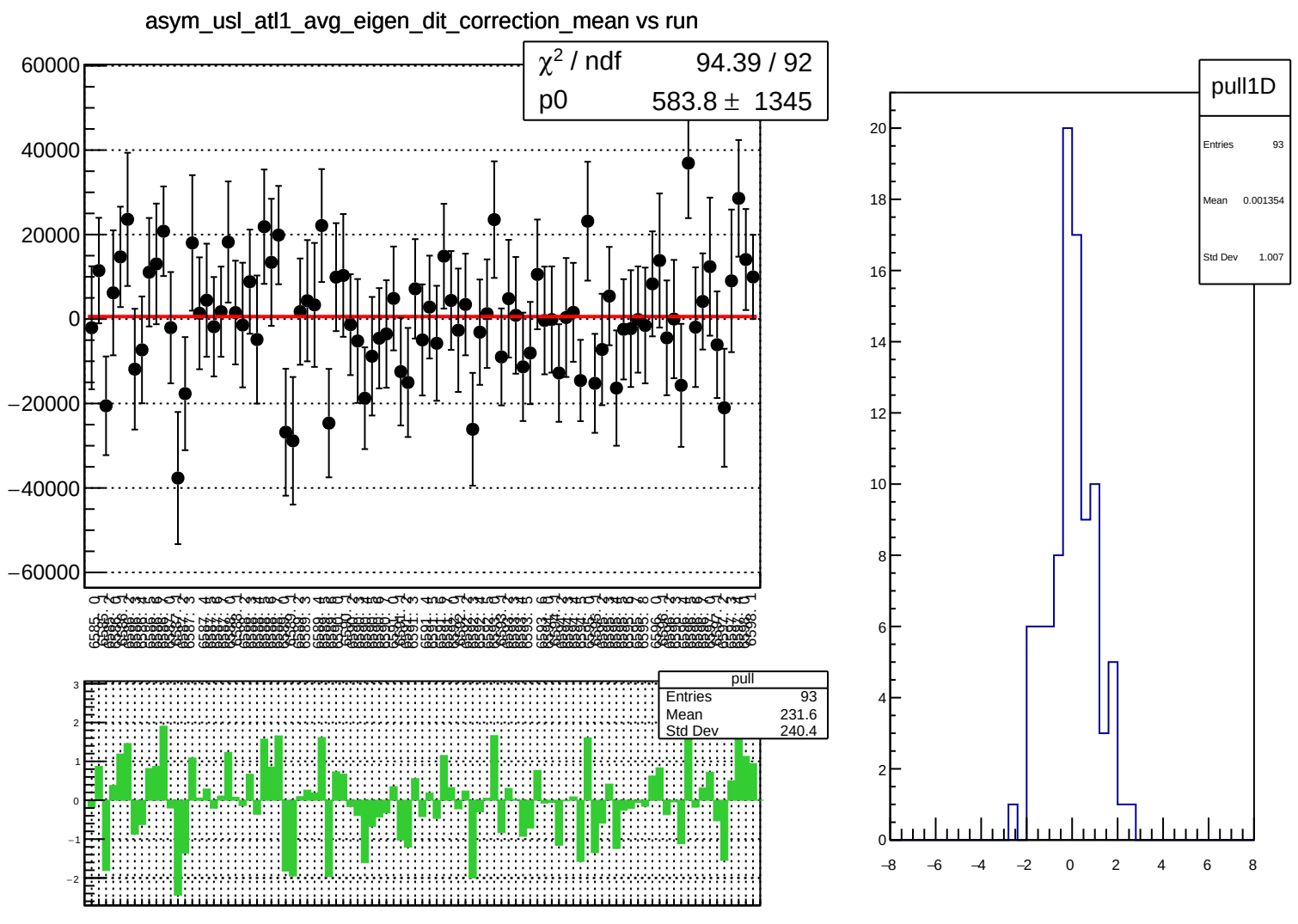

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 94.39 / 92
p0 583.8 ± 1345
pull
Entries 93
Mean 231.6
Std Dev 240.5
pull1D
Entries 93
Mean 0.001354
Std Dev 1.007

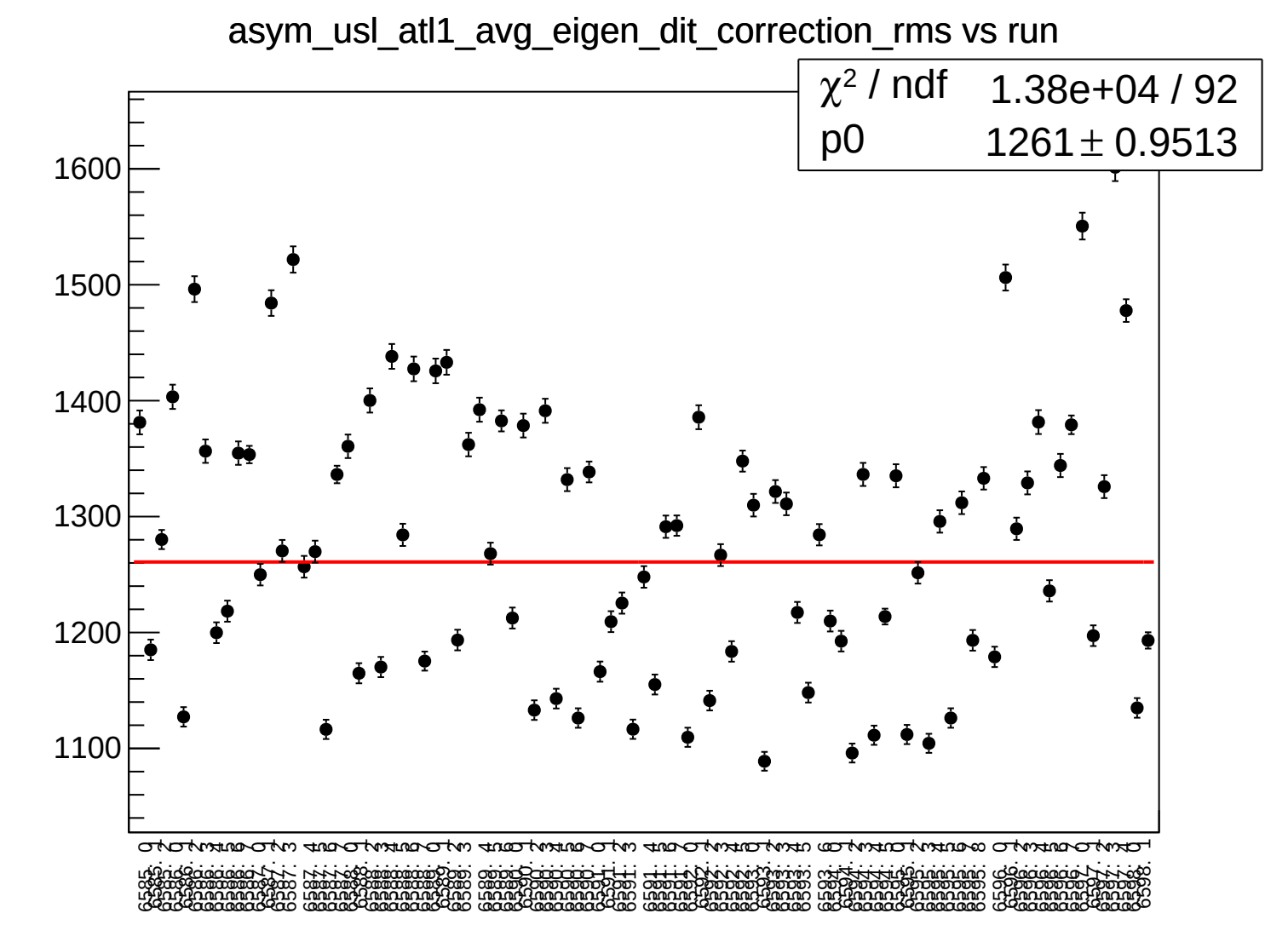

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 1.38e+04 / 92
p0 1261 ± 0.9513
1600
1500
1400
1300
1200
1100

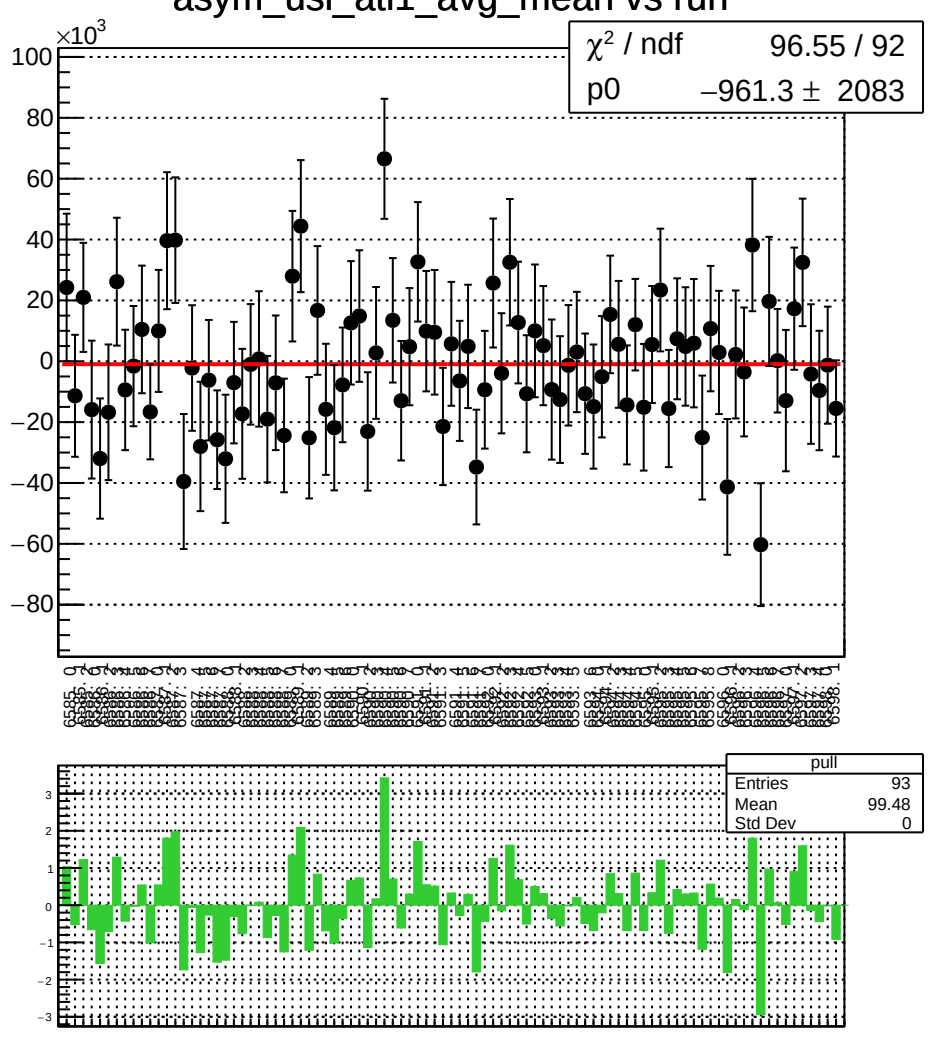

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 90.29 / 92
p0 −204 ± 1575
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 158.3
Std Dev 0
3
2
1
0
−1
−2

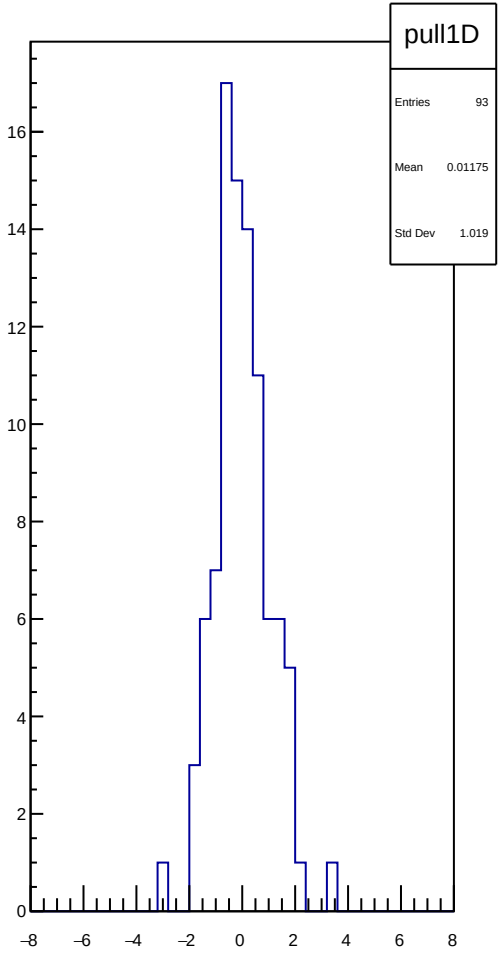

pull1D
Entries 93
Mean 0.01124
Std Dev 0.9853
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

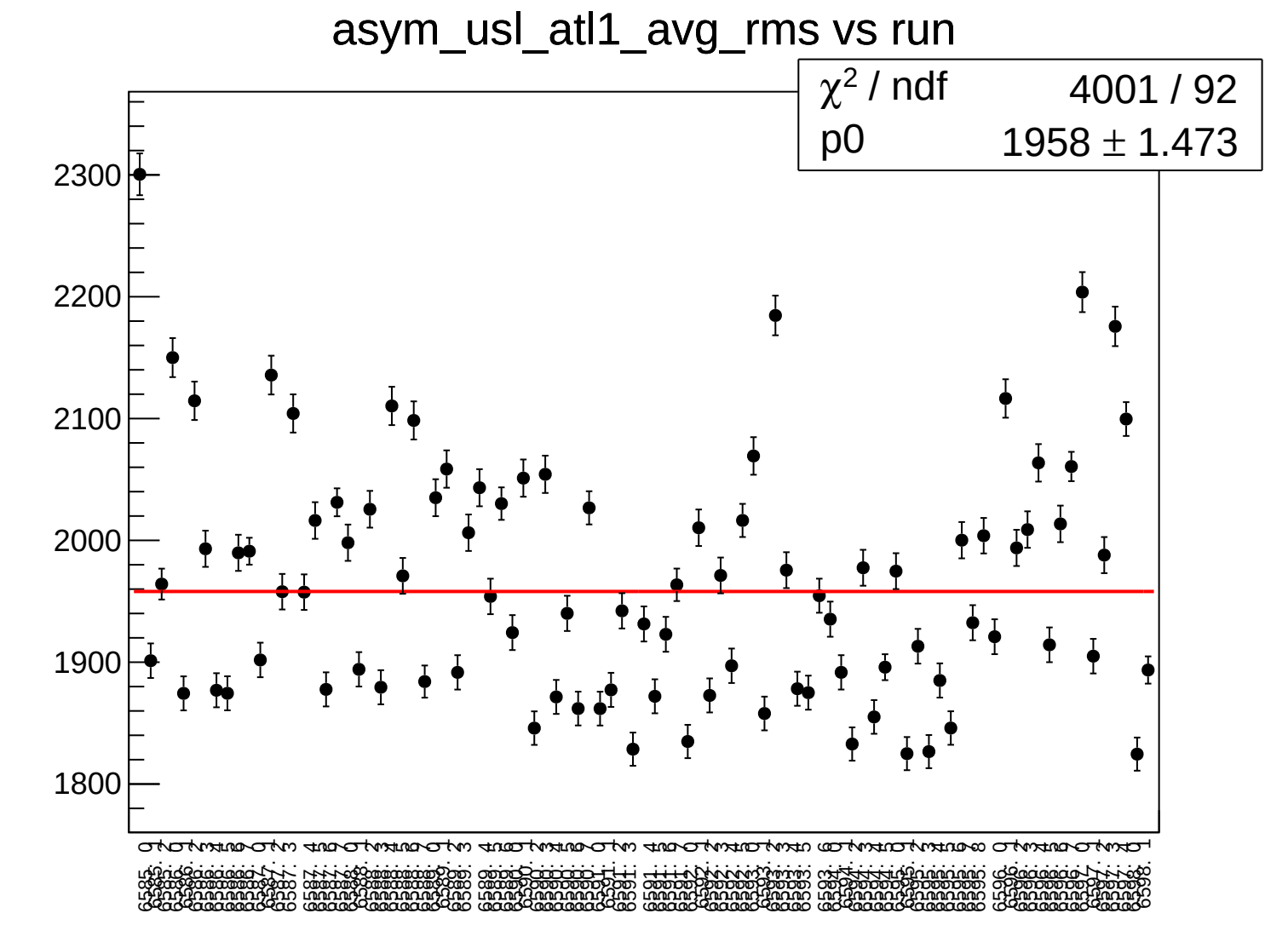

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 242 / 92
p0 1482 ± 1.114
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

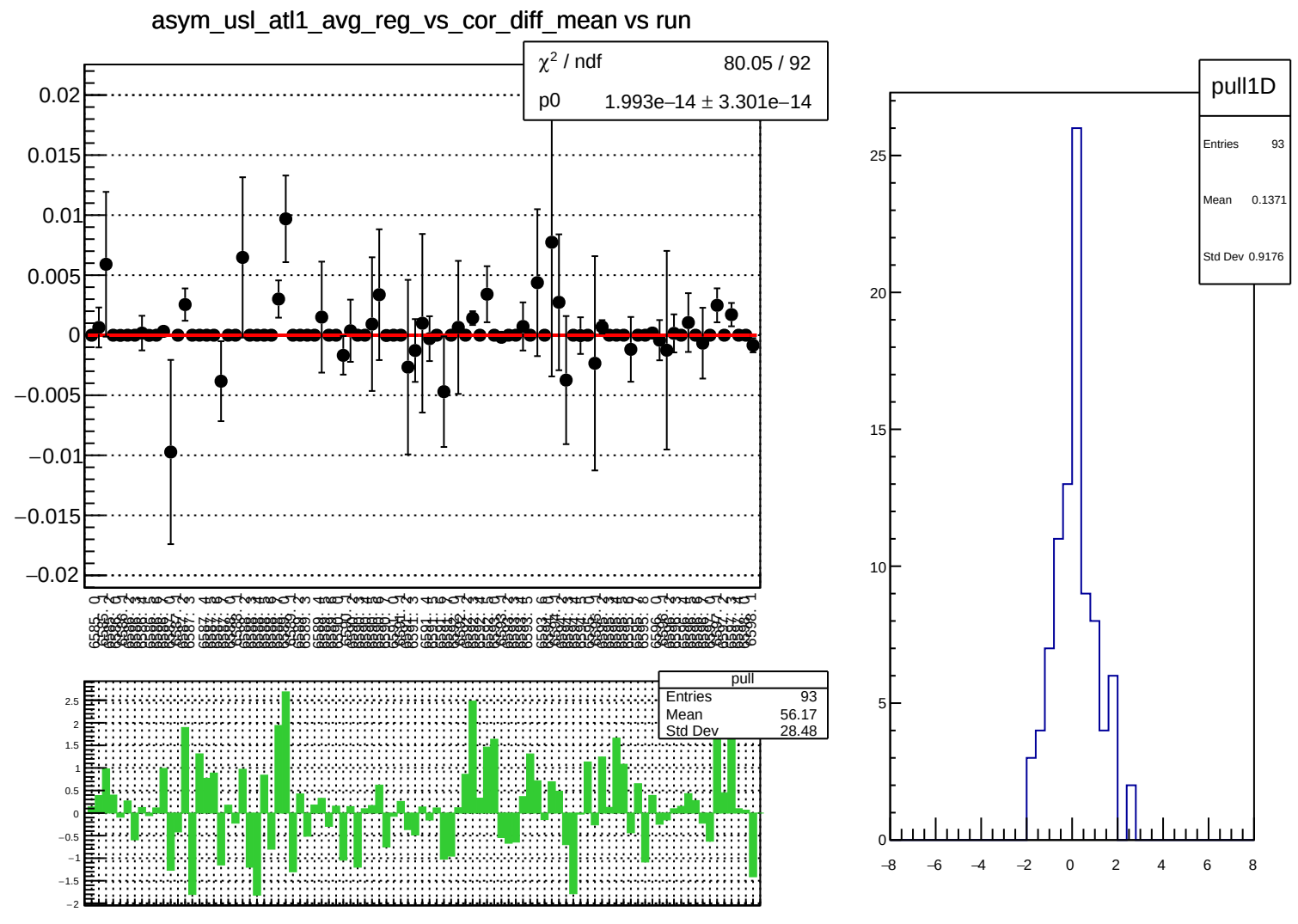

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.39 / 92
p0 583.8 ± 1345
pull
Entries 93
Mean 231.6
Std Dev 240.4
pull1D
Entries 93
Mean 0.001354
Std Dev 1.007

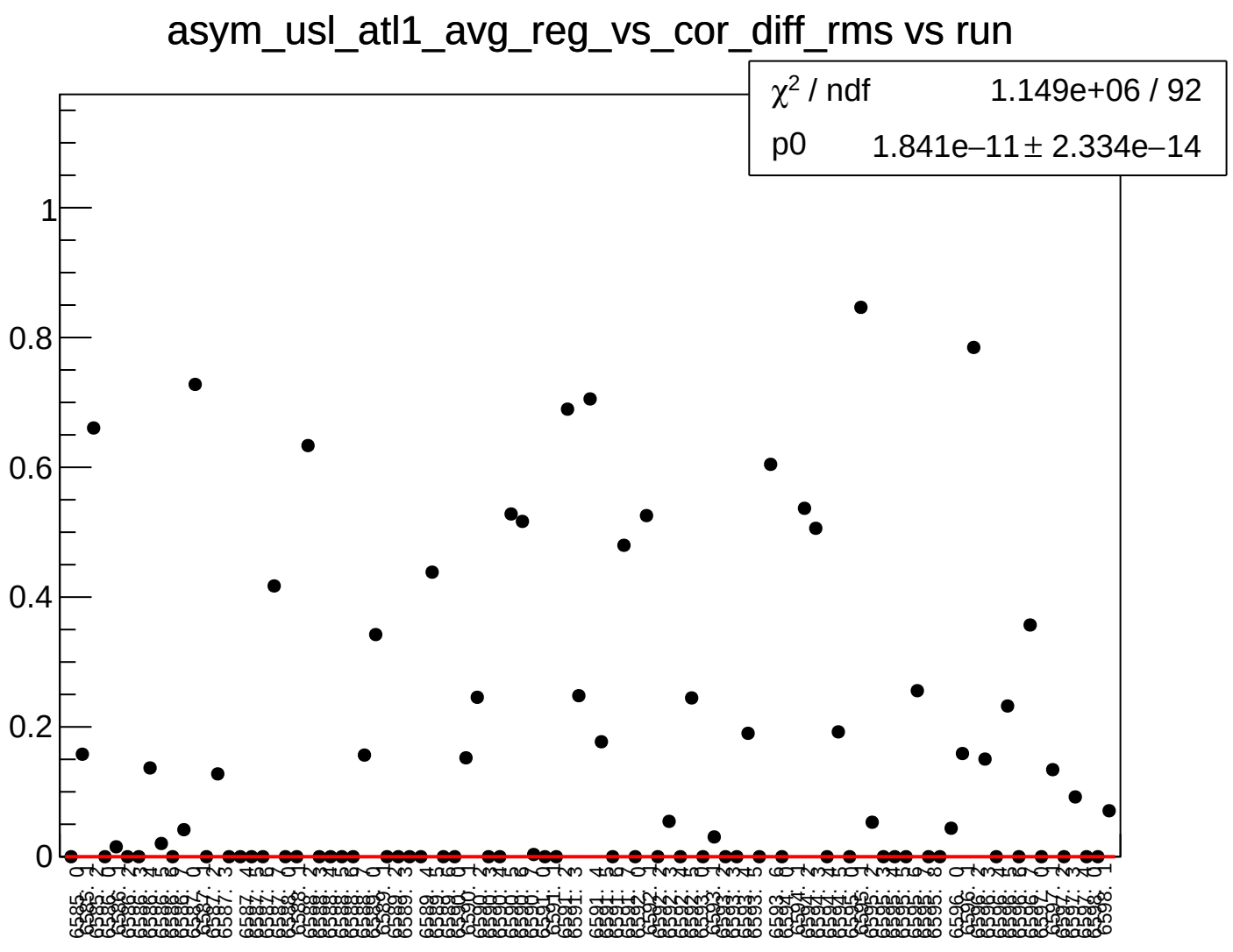

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.38e+04 / 92
p0 1261 ± 0.9513
1600
1500
1400
1300
1200
1100

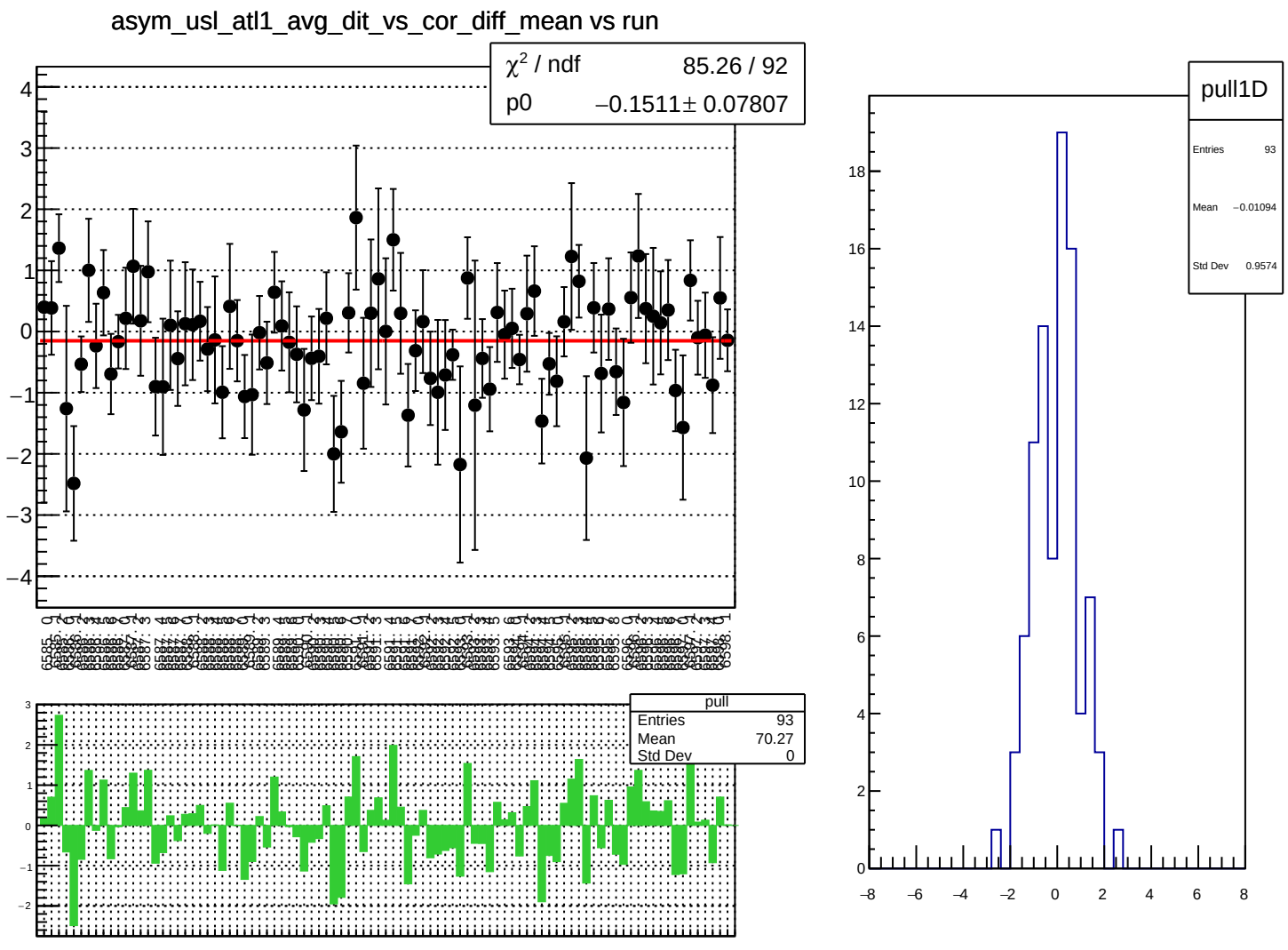

asym_usl_atl1_avg_mean vs run
×10^3
χ² / ndf 96.55 / 92
p0 −961.3 ± 2083
pull
Entries 93
Mean 99.48
Std Dev 0

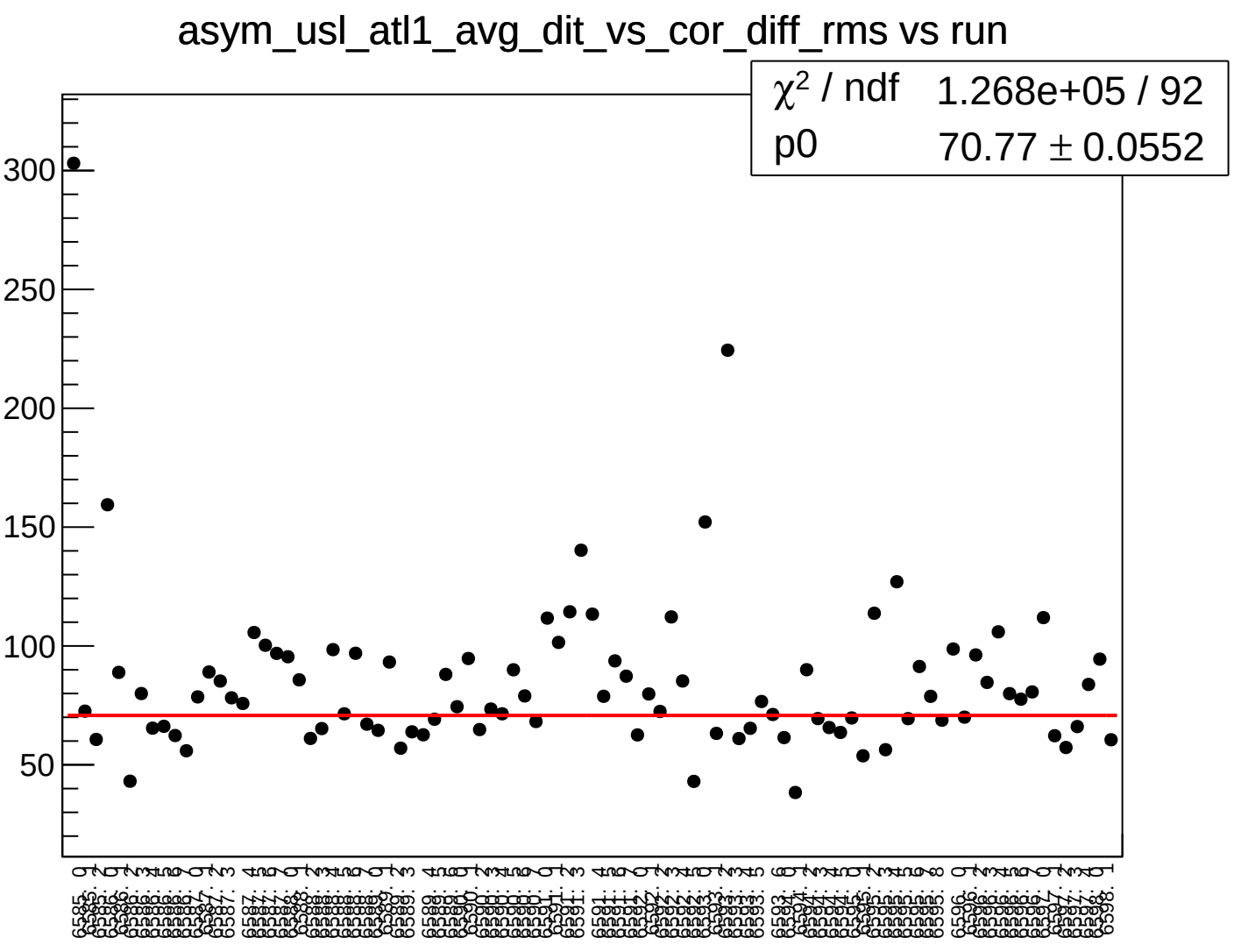

pull1D
Entries 93
Mean 0.01175
Std Dev 1.019

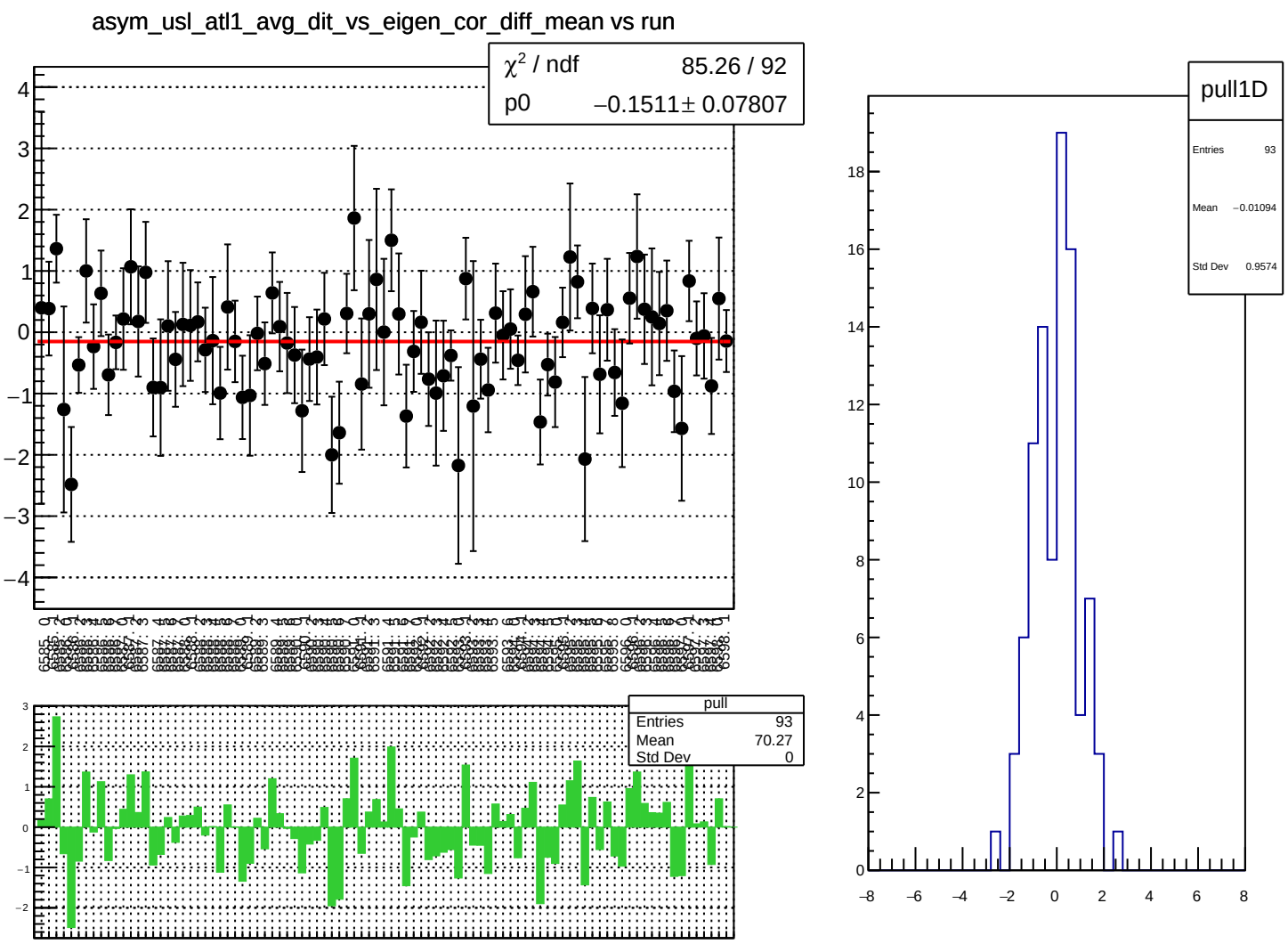

asym_usl_atl1_avg_rms vs run
χ² / ndf 4001 / 92
p0 1958 ± 1.473
2300
2200
2100
2000
1900
1800

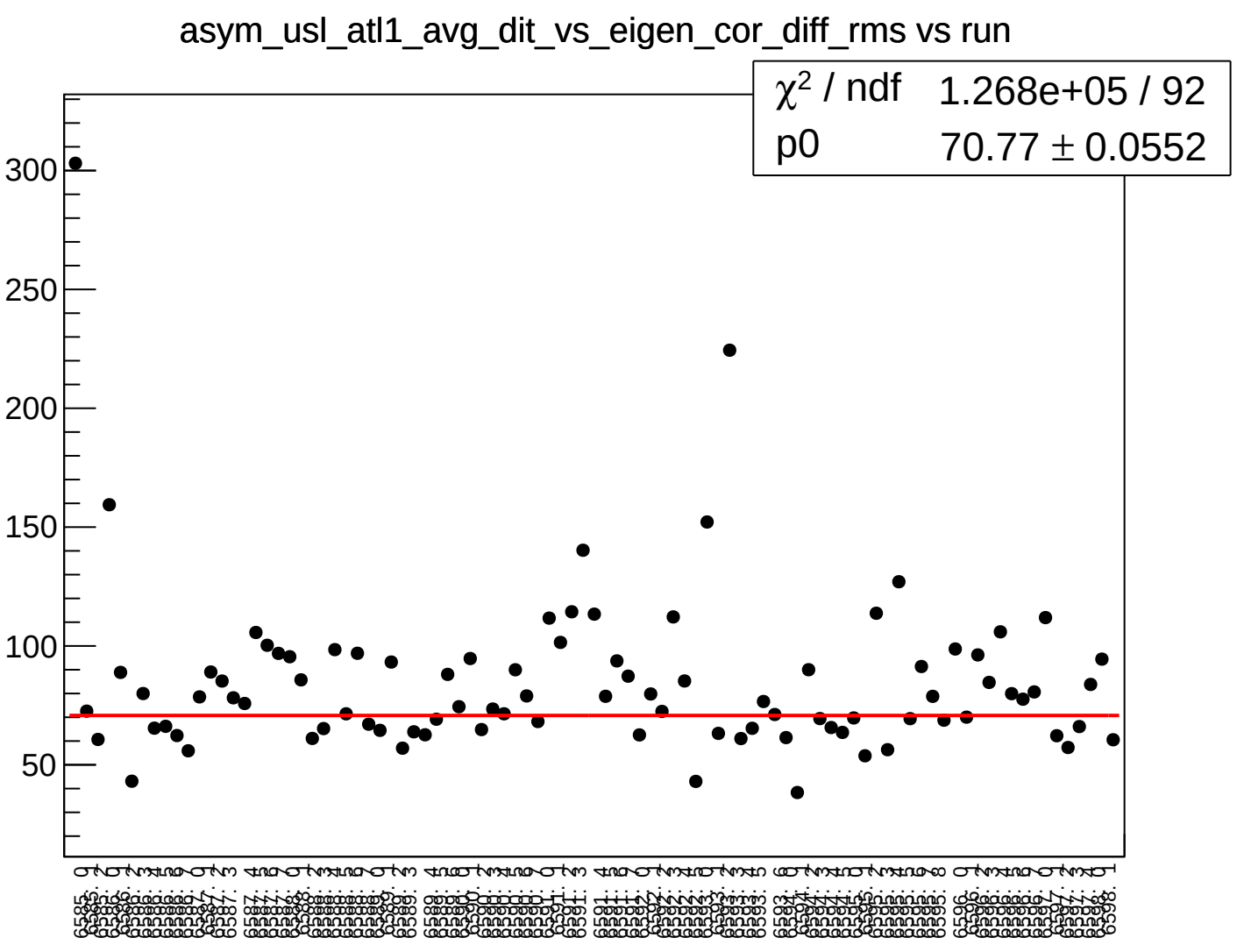

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.05 / 92
p0 1.993e−14 ± 3.301e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 56.17
Std Dev 28.48
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.1371
Std Dev 0.9176
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

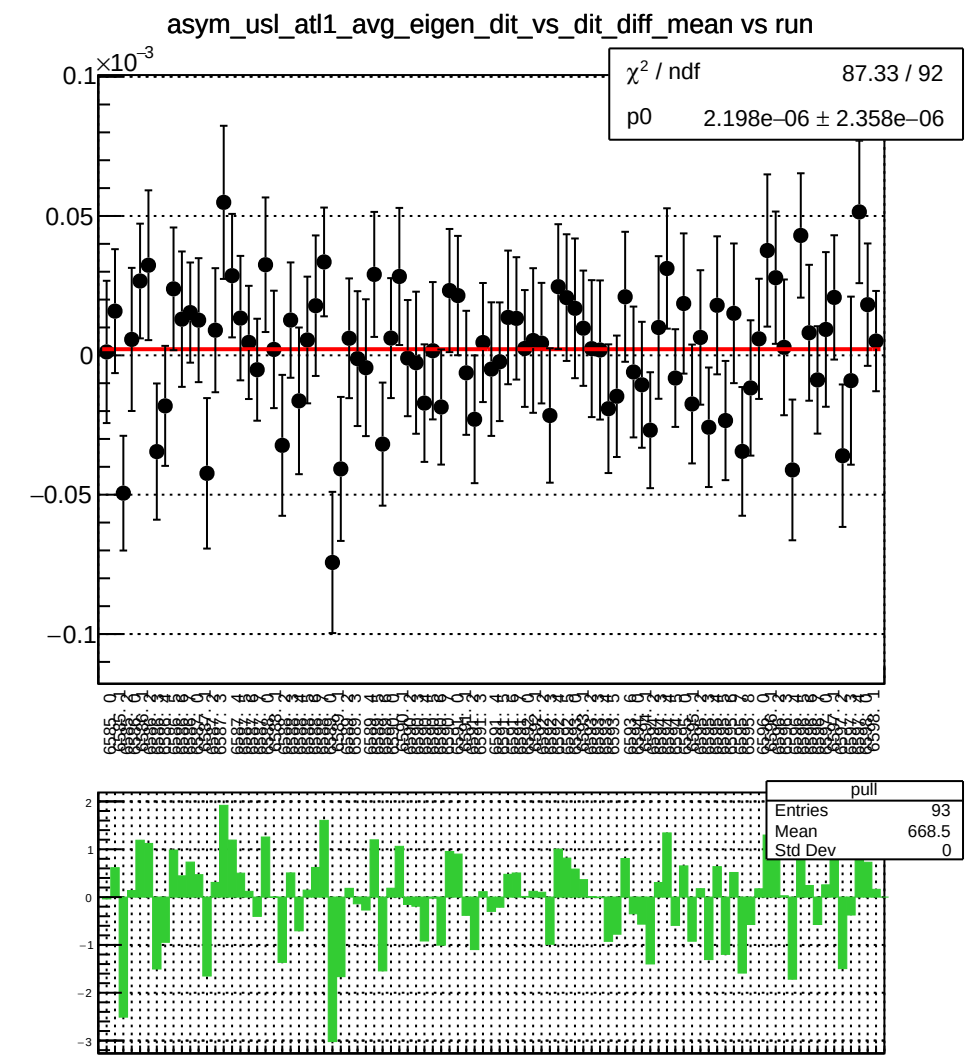

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.149e+06 / 92
p0 1.841e−11 ± 2.334e−14
1
0.8
0.6
0.4
0.2
0

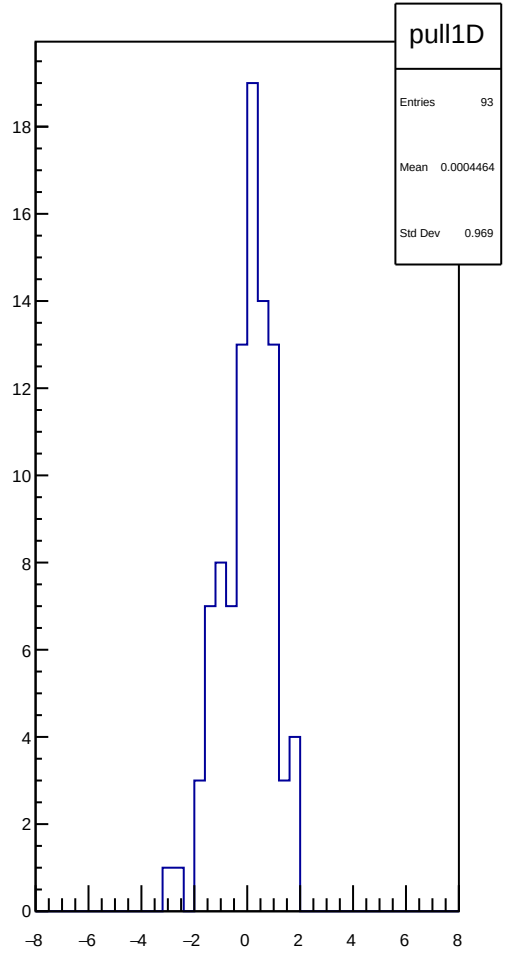

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.26 / 92
p0 −0.1511± 0.07807
pull
Entries 93
Mean 70.27
Std Dev 0
pull1D
Entries 93
Mean −0.01094
Std Dev 0.9574

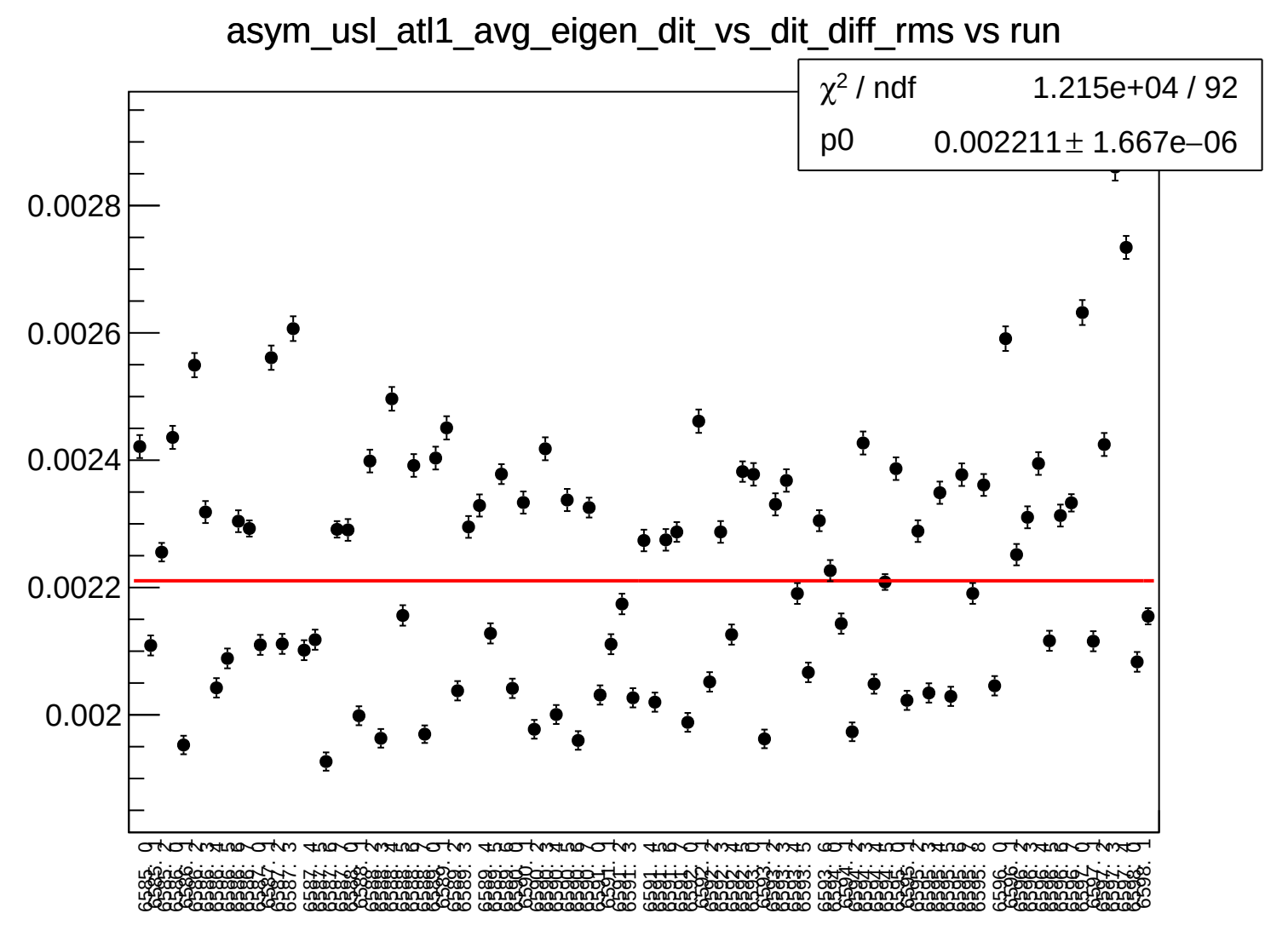

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.268e+05 / 92
p0 70.77 ± 0.0552
300
250
200
150
100
50

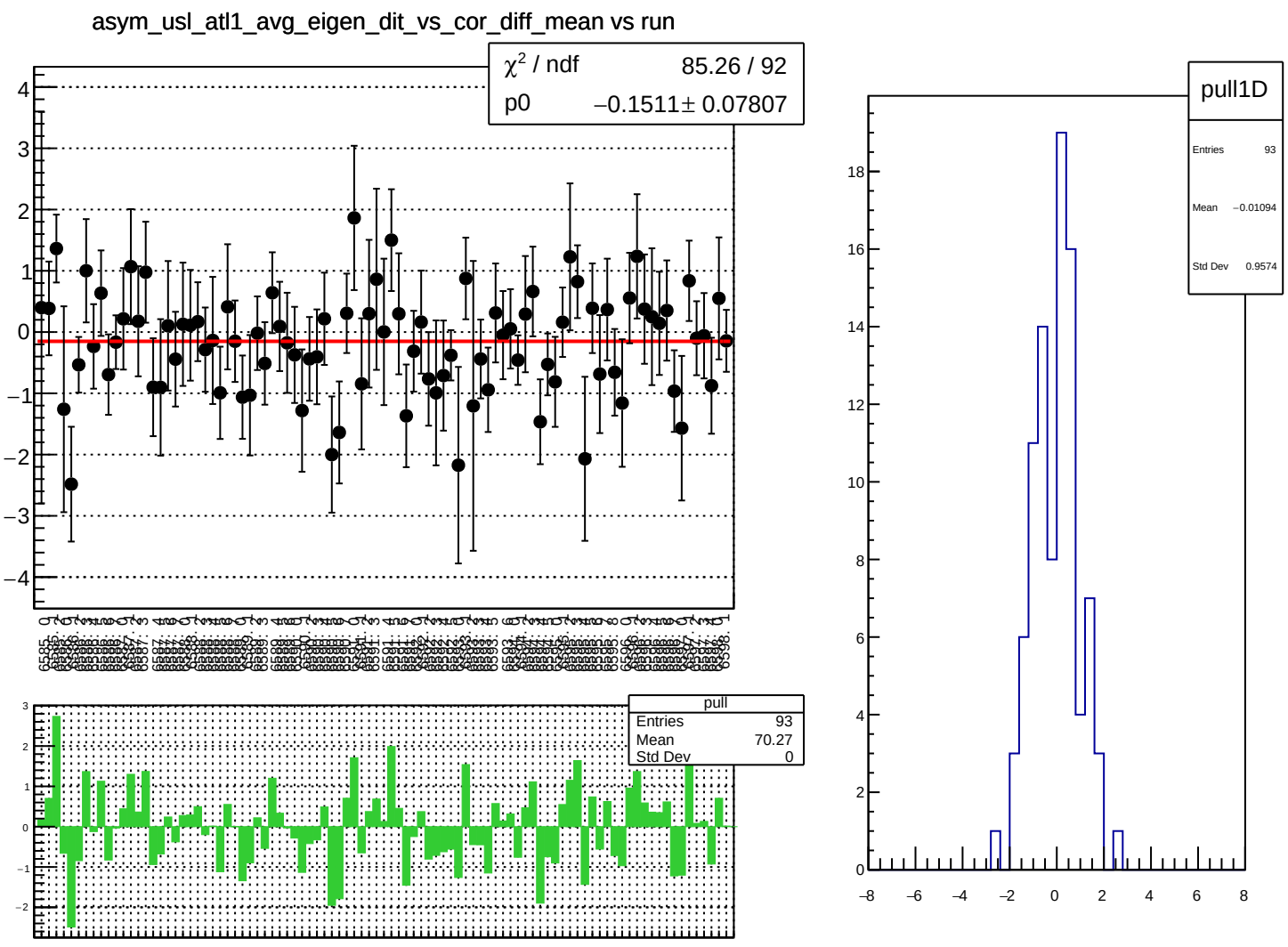

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.26 / 92
p0 −0.1511± 0.07807
pull
Entries 93
Mean 70.27
Std Dev 0
pull1D
Entries 93
Mean −0.01094
Std Dev 0.9574

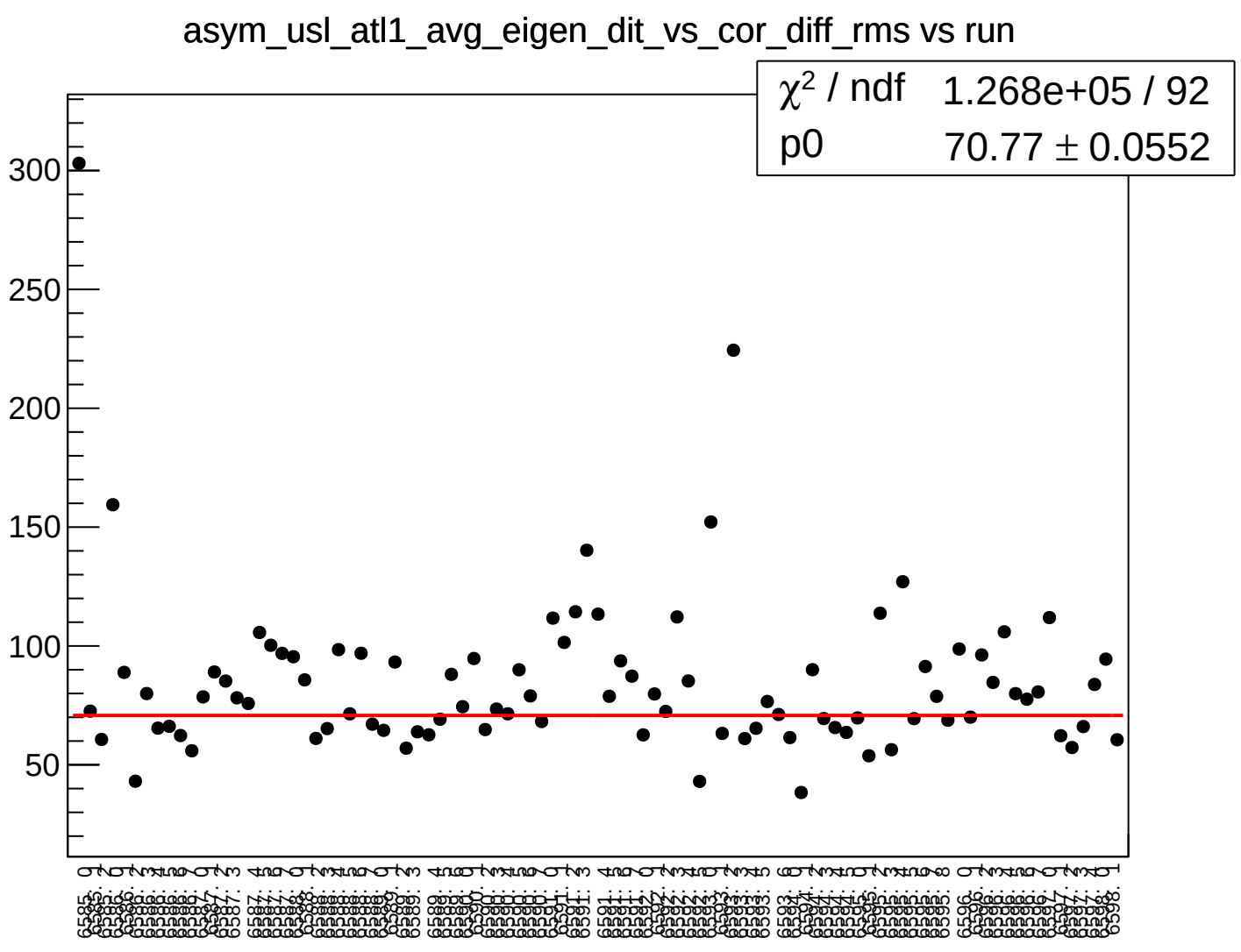

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.268e+05 / 92
p0 70.77 ± 0.0552
300
250
200
150
100
50

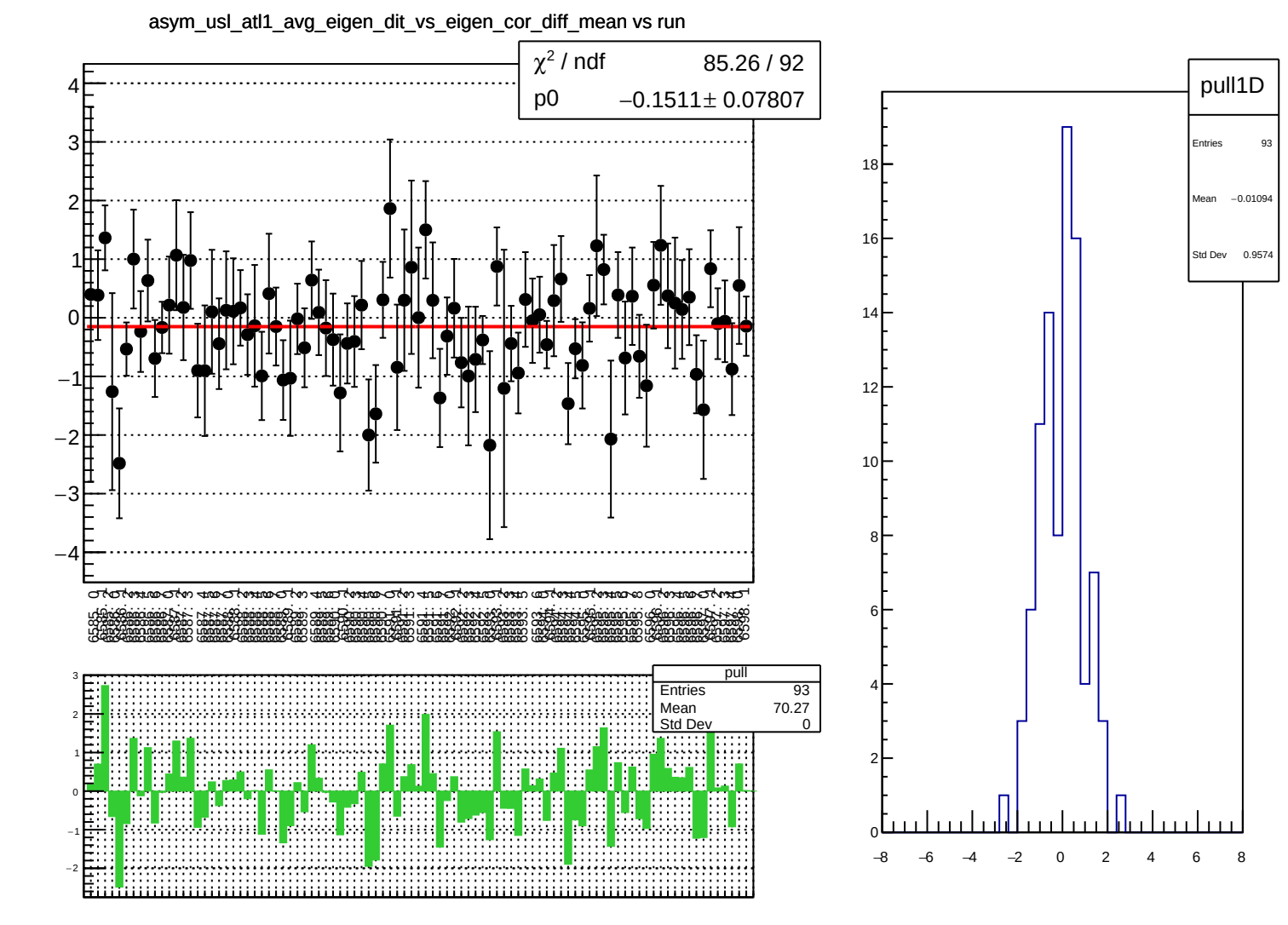

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.33 / 92
p0 2.198e−06 ± 2.358e−06
pull
Entries 93
Mean 668.5
Std Dev 0

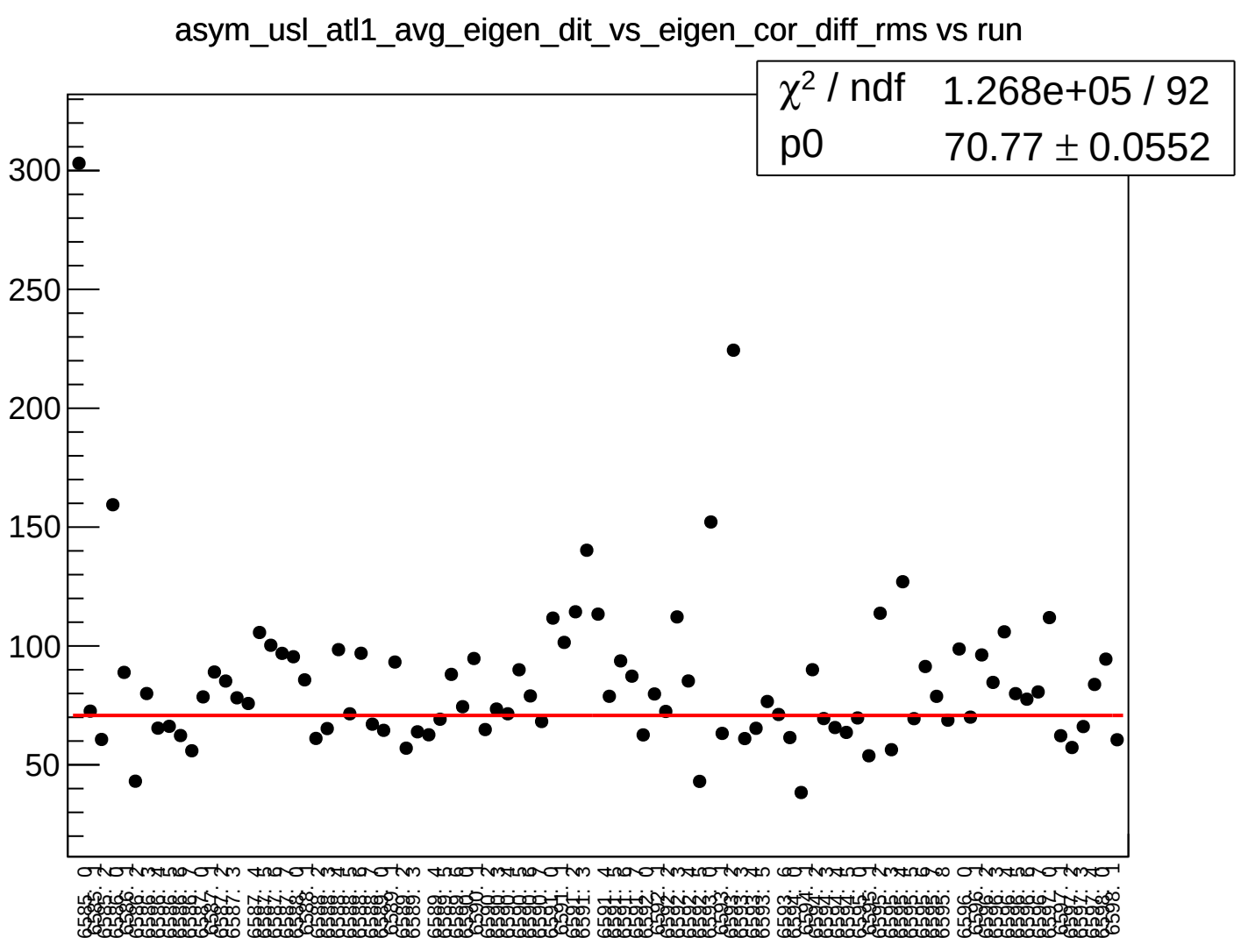

pull1D
Entries 93
Mean 0.0004464
Std Dev 0.969

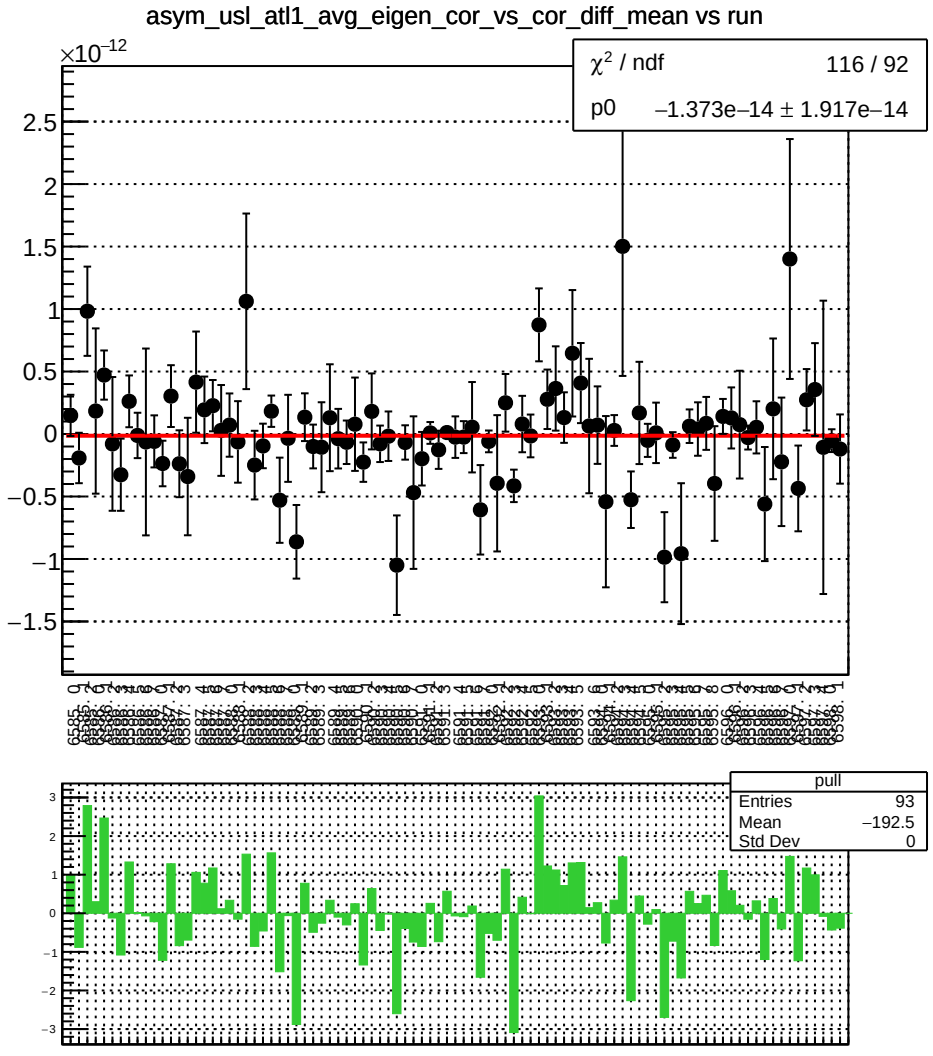

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.215e+04 / 92
p0 0.002211 ± 1.667e−06
0.0028
0.0026
0.0024
0.0022
0.002

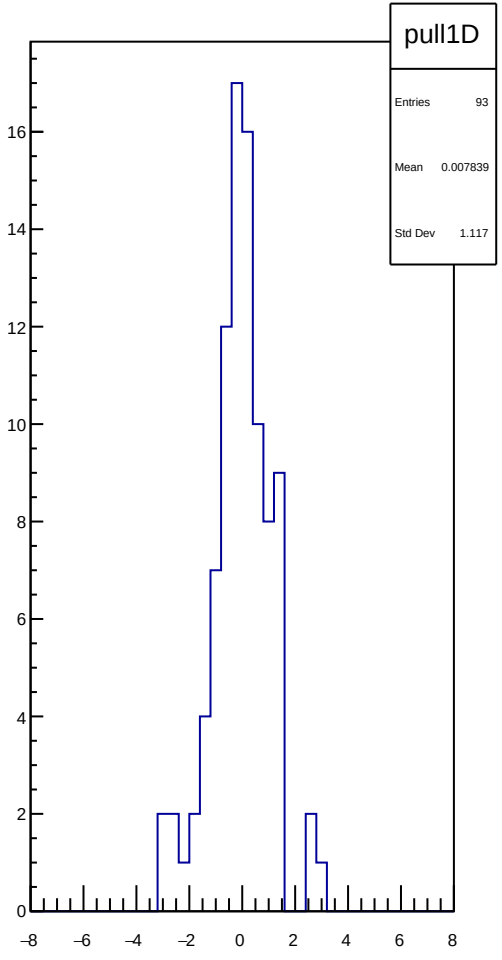

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.26 / 92
p0 −0.1511± 0.07807
pull
Entries 93
Mean 70.27
Std Dev 0
pull1D
Entries 93
Mean −0.01094
Std Dev 0.9574

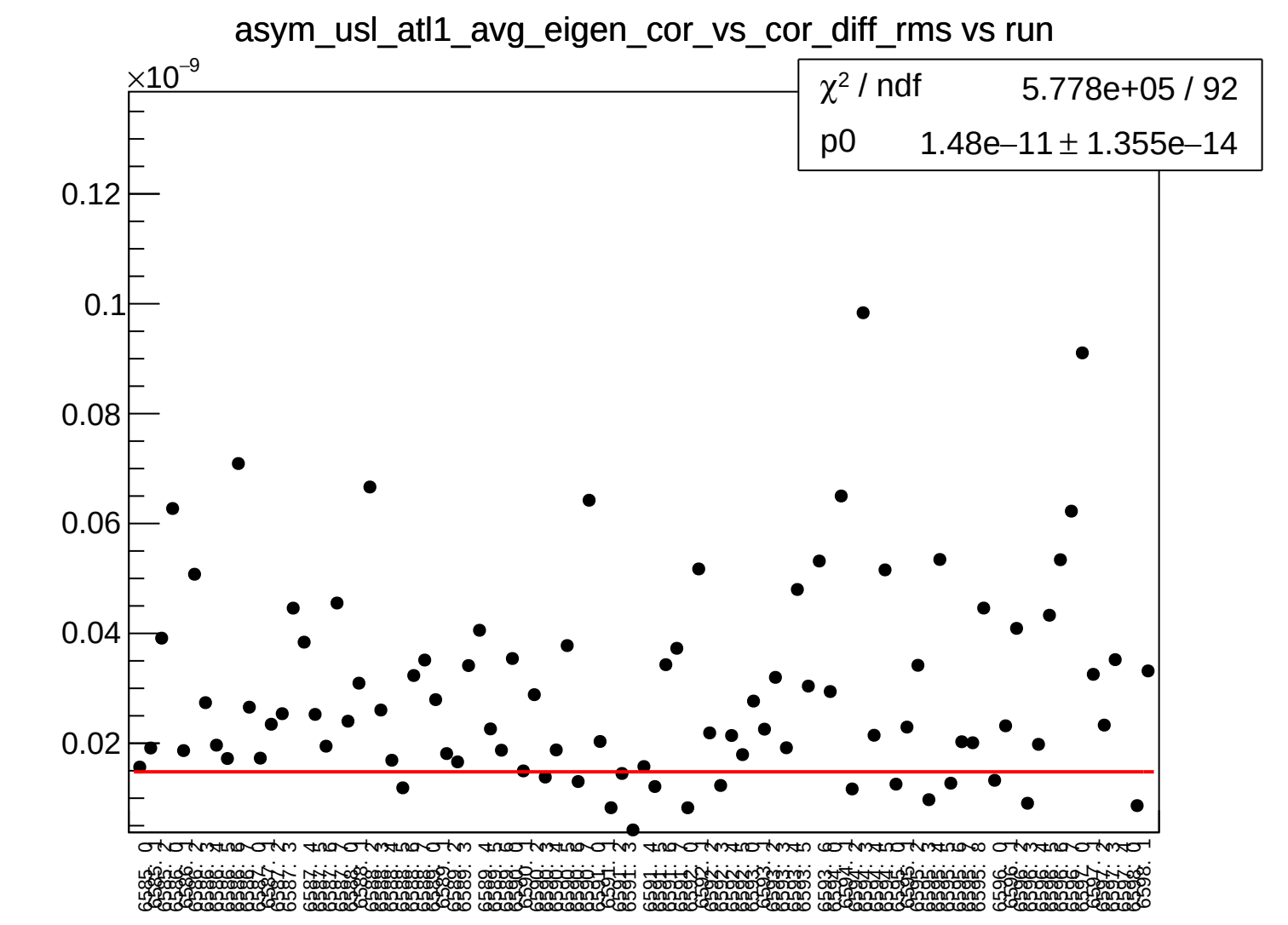

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.268e+05 / 92
p0 70.77 ± 0.0552
300
250
200
150
100
50

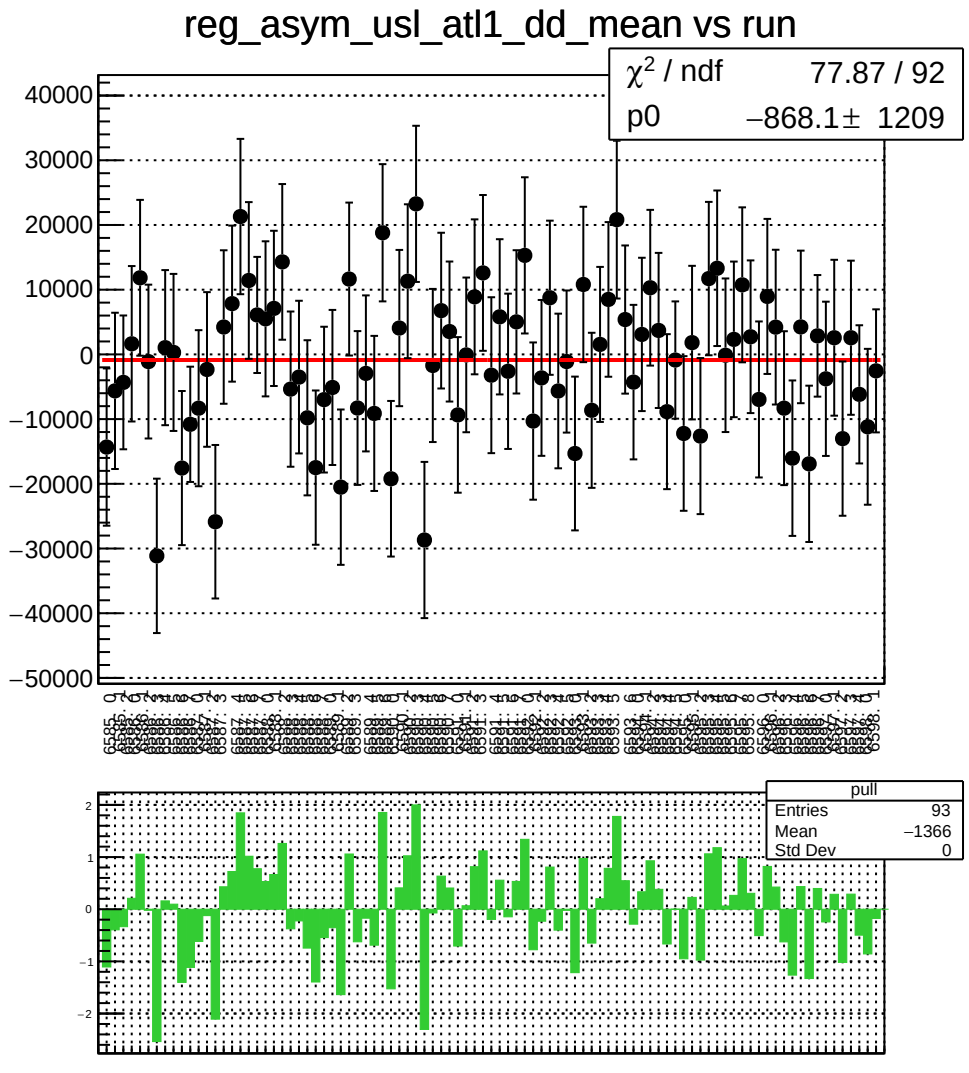

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.26 / 92
p0 −0.1511± 0.07807
pull
Entries 93
Mean 70.27
Std Dev 0
pull1D
Entries 93
Mean −0.01094
Std Dev 0.9574

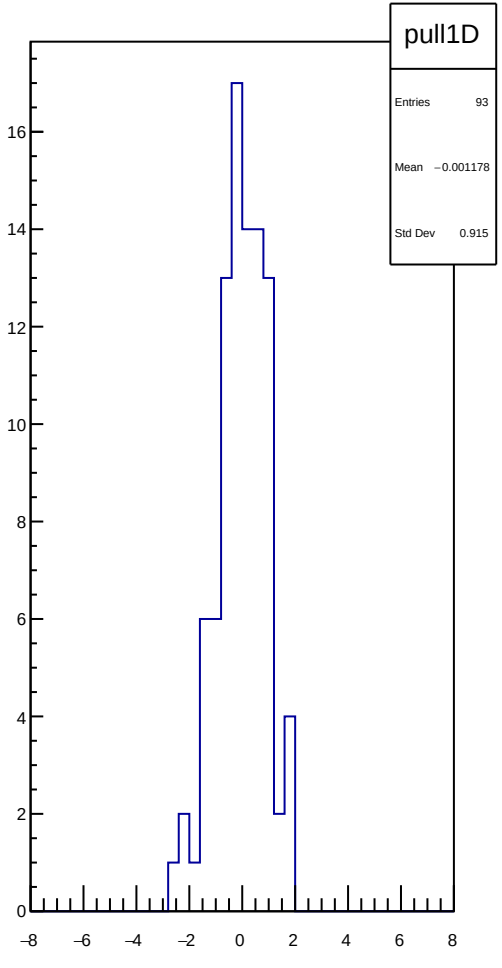

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.268e+05 / 92
p0 70.77 ± 0.0552
300
250
200
150
100
50

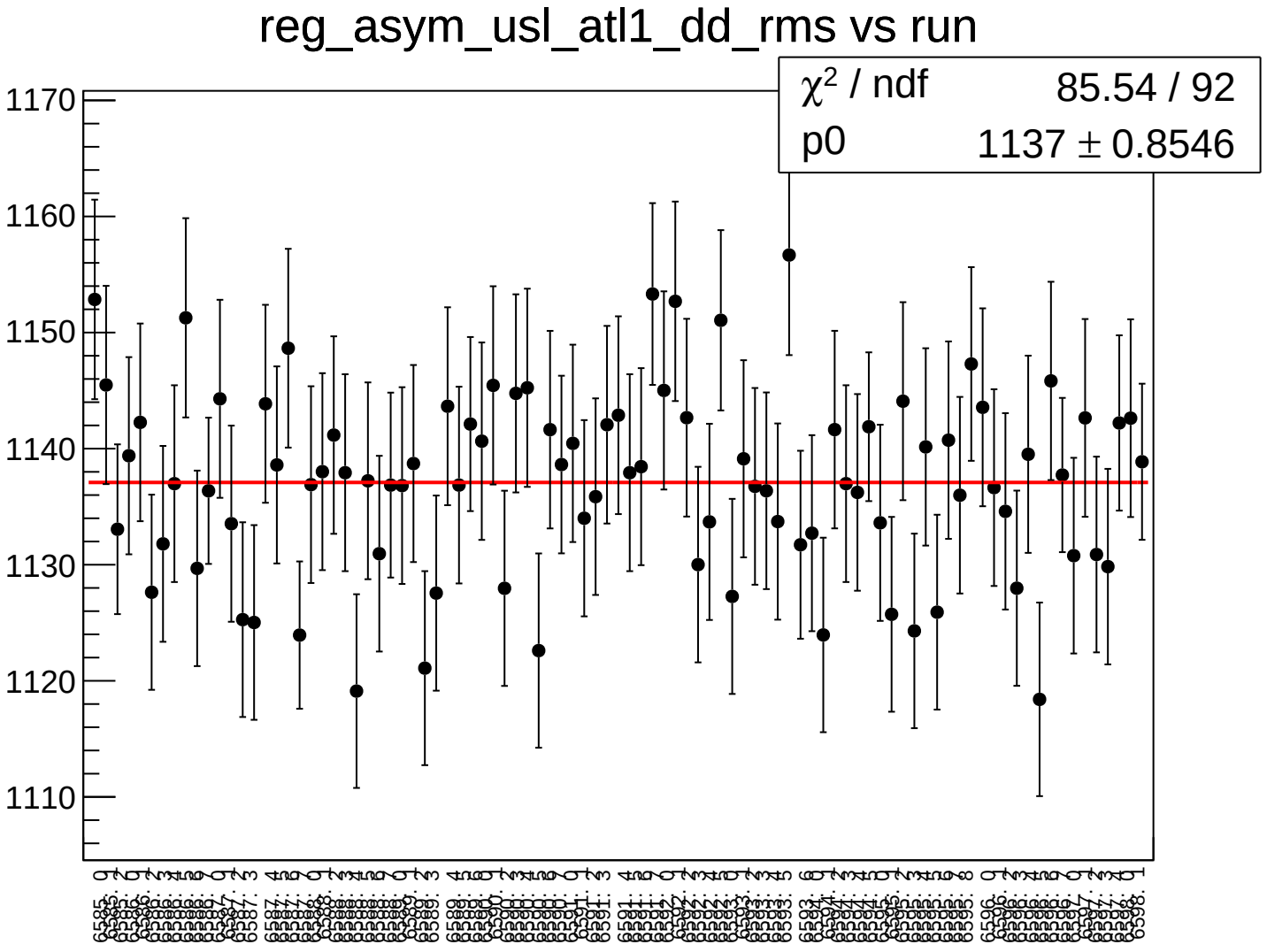

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116 / 92
p0 −1.373e−14 ± 1.917e−14
pull
Entries 93
Mean −192.5
Std Dev 0

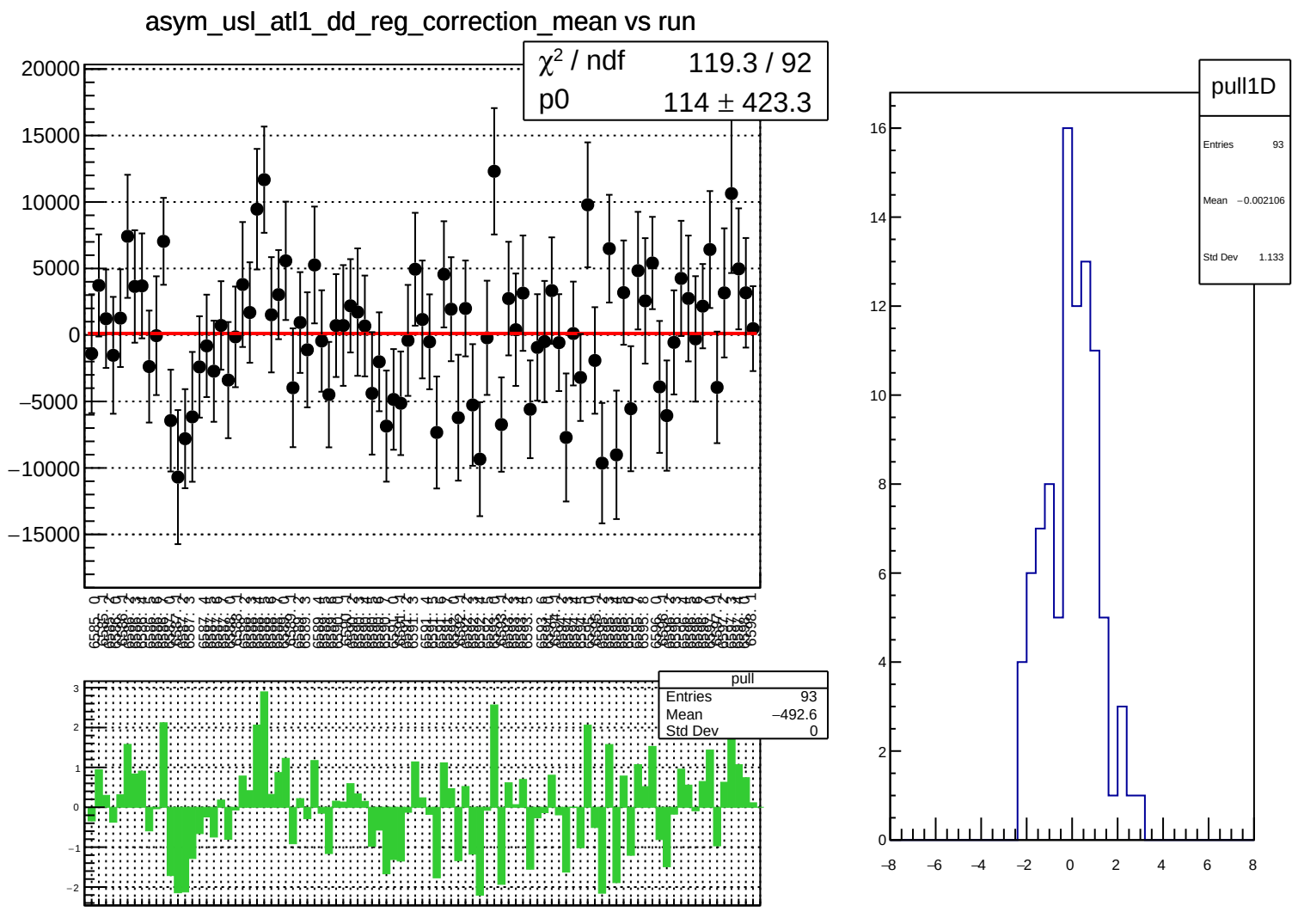

pull1D
Entries 93
Mean 0.007839
Std Dev 1.117

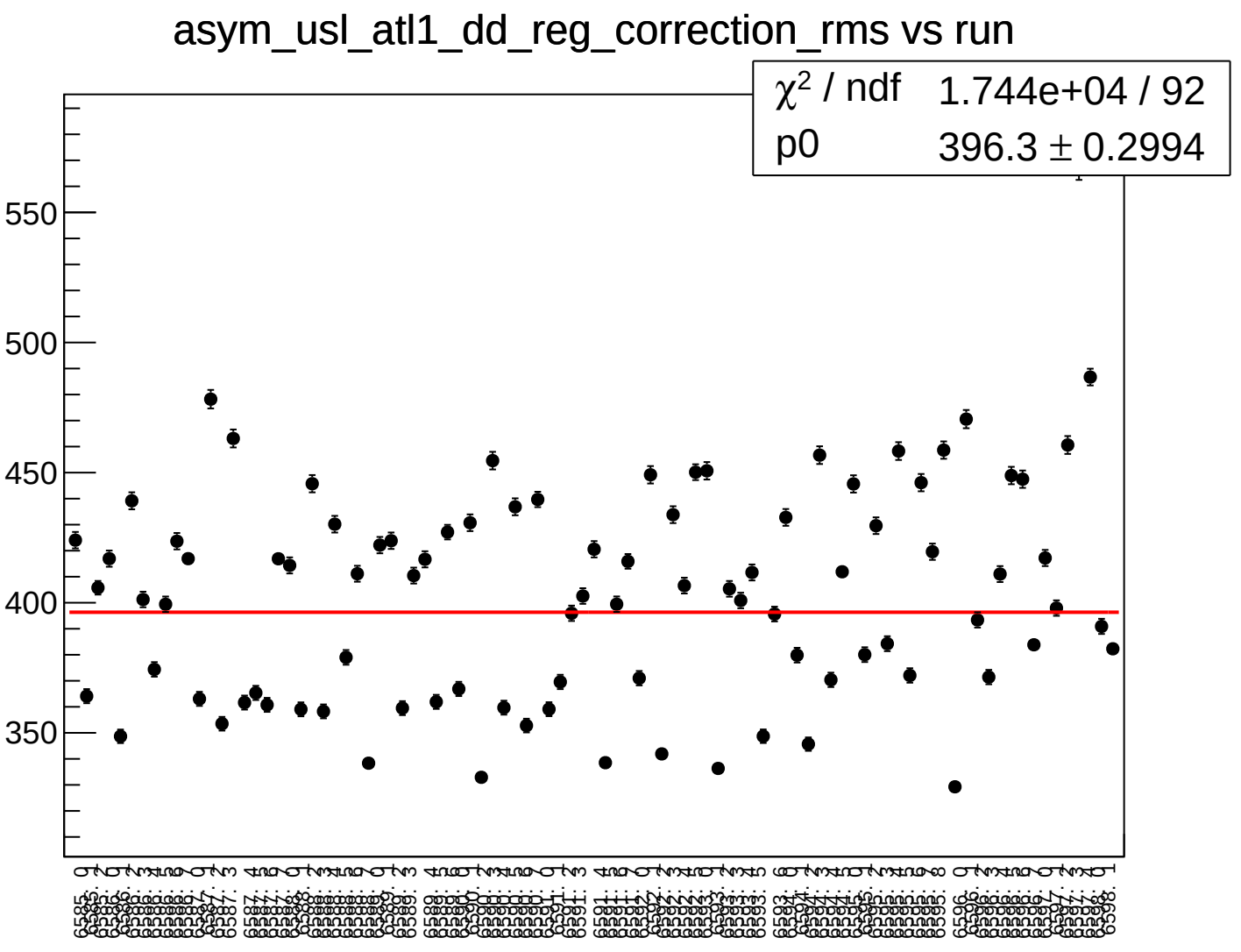

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.778e+05 / 92
p0 1.48e−11 ± 1.355e−14
0.12
0.1
0.08
0.06
0.04
0.02

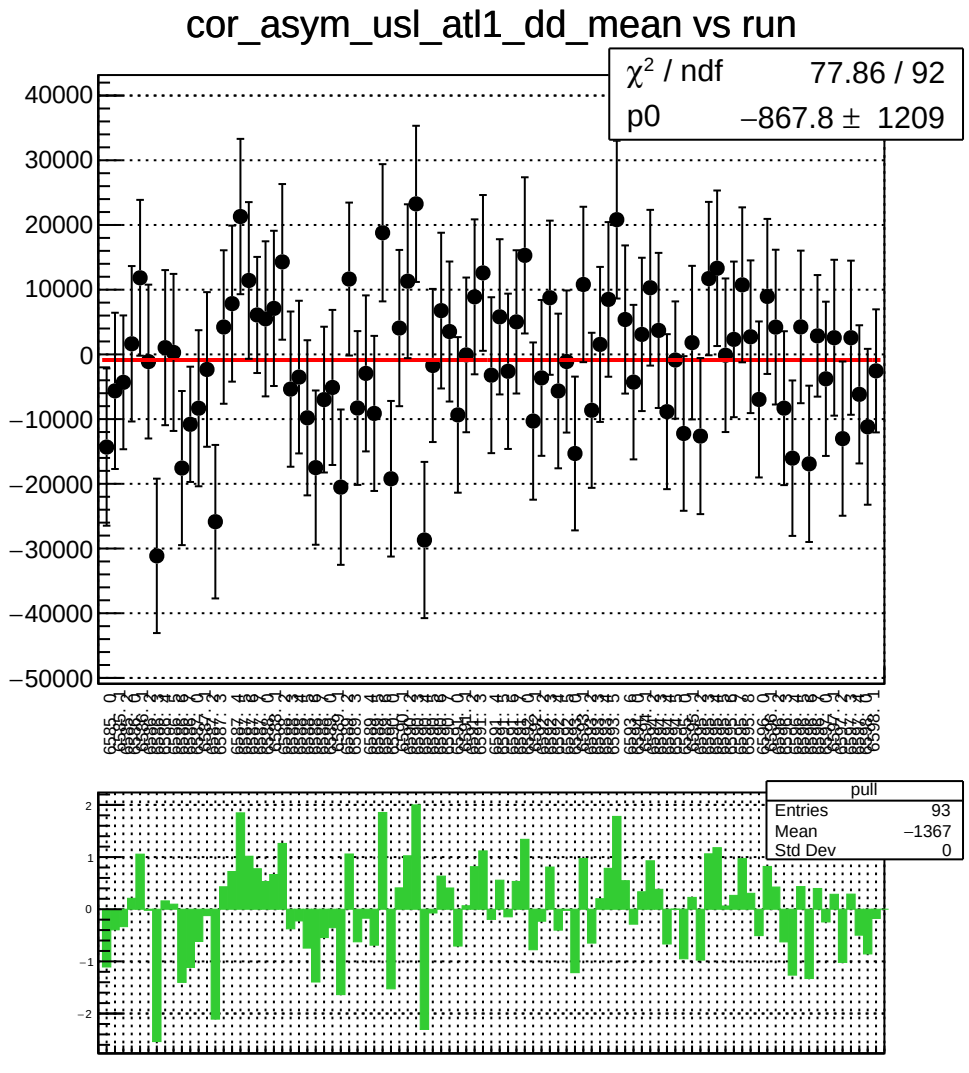

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 77.87 / 92
p0 −868.1± 1209
pull
Entries 93
Mean −1366
Std Dev 0

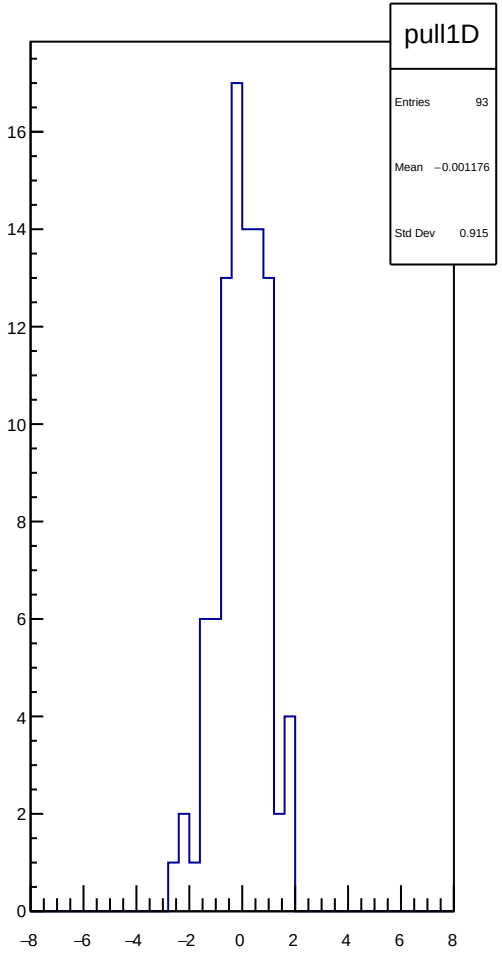

pull1D
Entries 93
Mean −0.001178
Std Dev 0.915

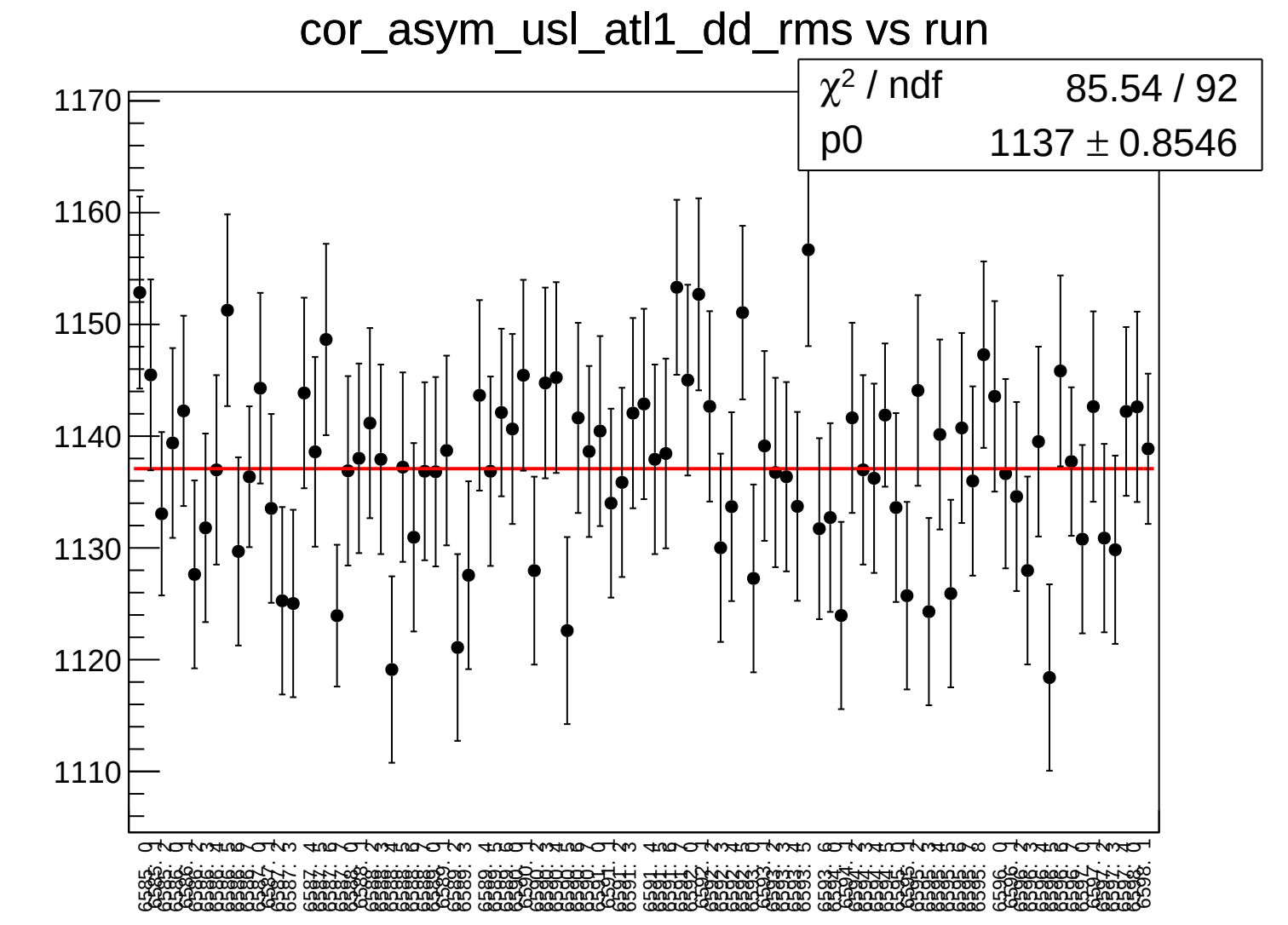

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 85.54 / 92
p0 1137 ± 0.8546
1170
1160
1150
1140
1130
1120
1110

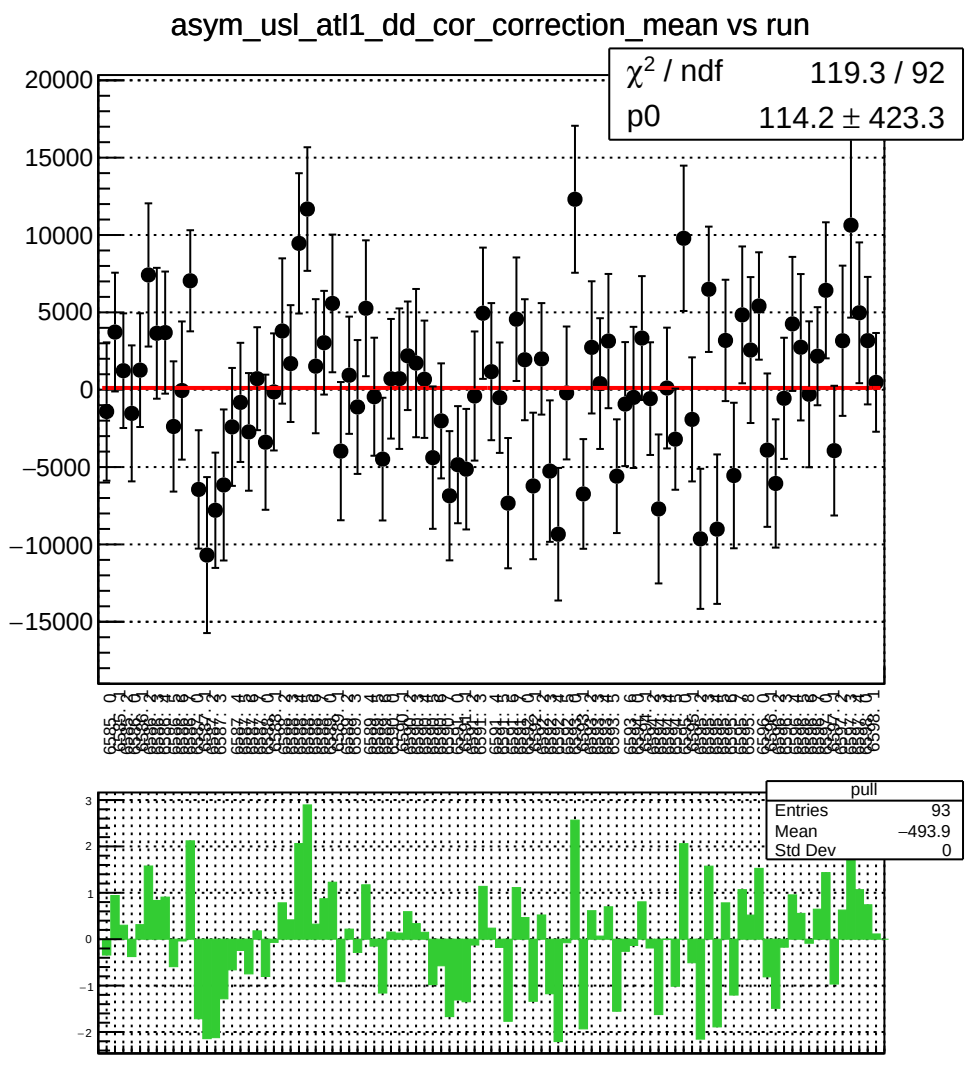

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 119.3 / 92
p0 114 ± 423.3
pull
Entries 93
Mean −492.6
Std Dev 0
pull1D
Entries 93
Mean −0.002106
Std Dev 1.133

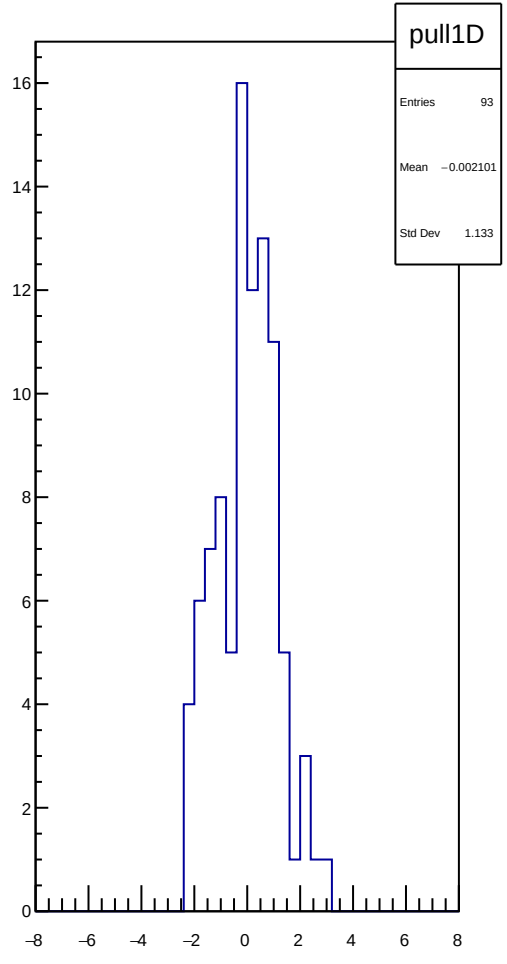

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.744e+04 / 92
p0 396.3 ± 0.2994
550
500
450
400
350

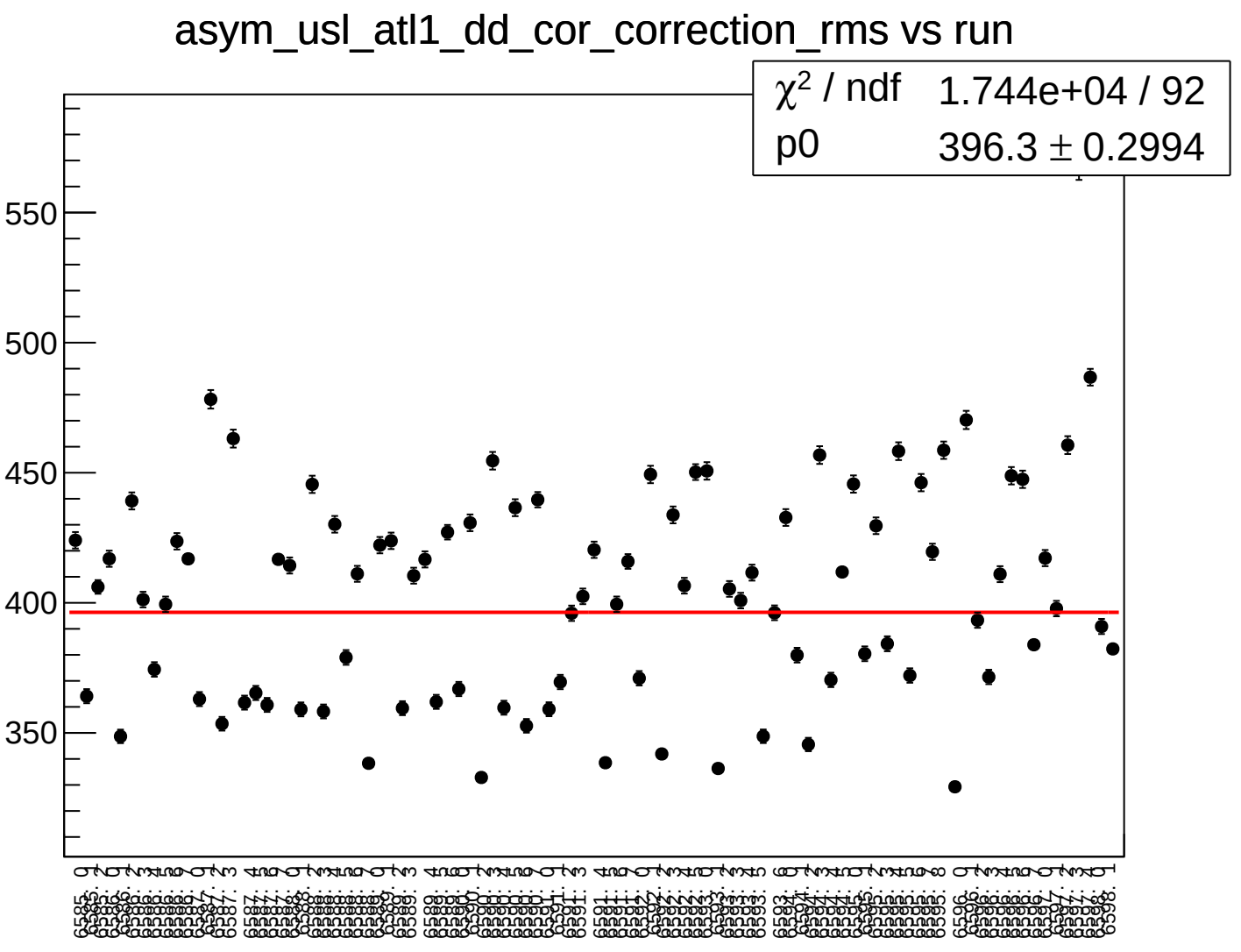

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 77.86 / 92
p0 −867.8 ± 1209
pull
Entries 93
Mean −1367
Std Dev 0

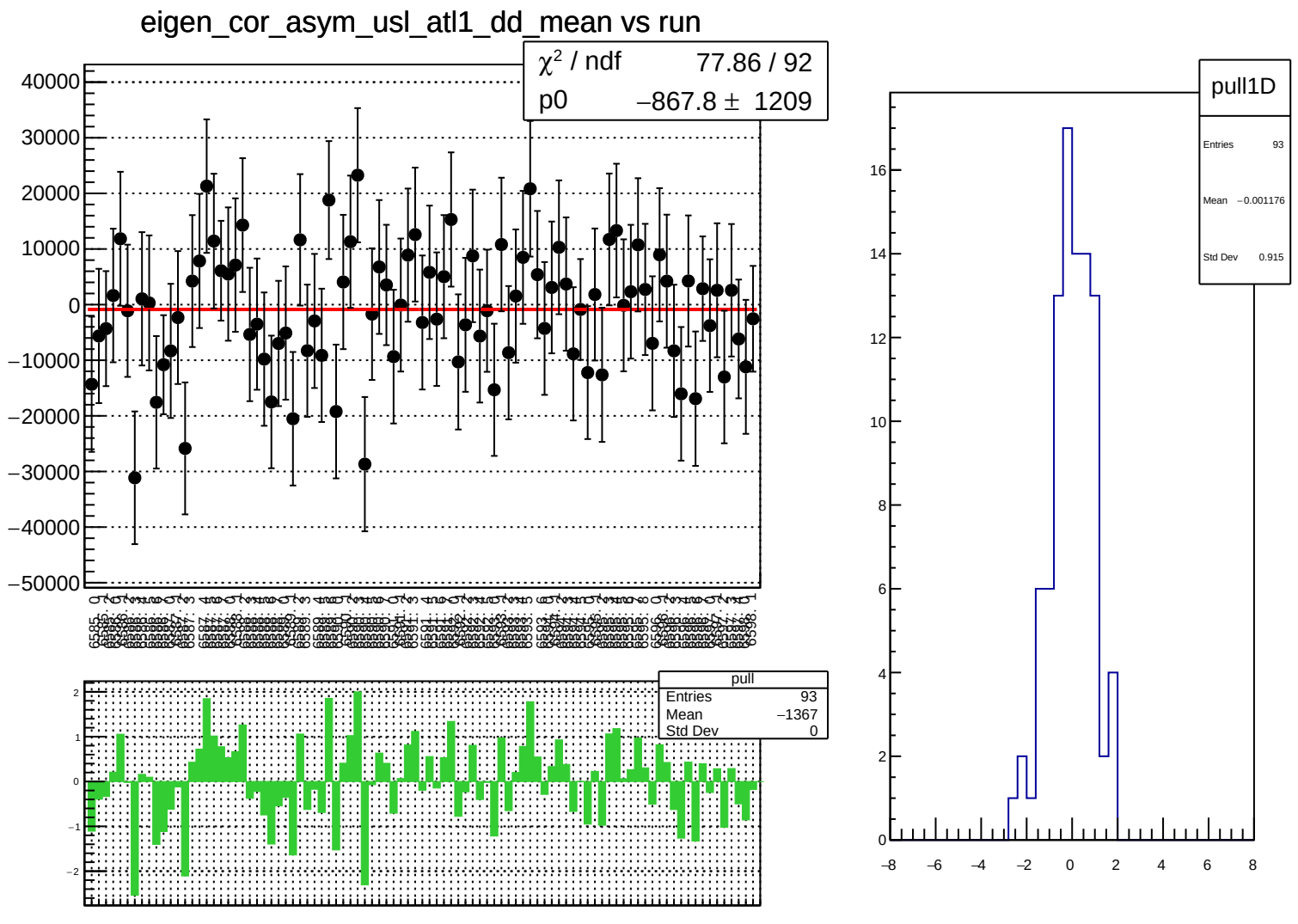

pull1D
Entries 93
Mean −0.001176
Std Dev 0.915

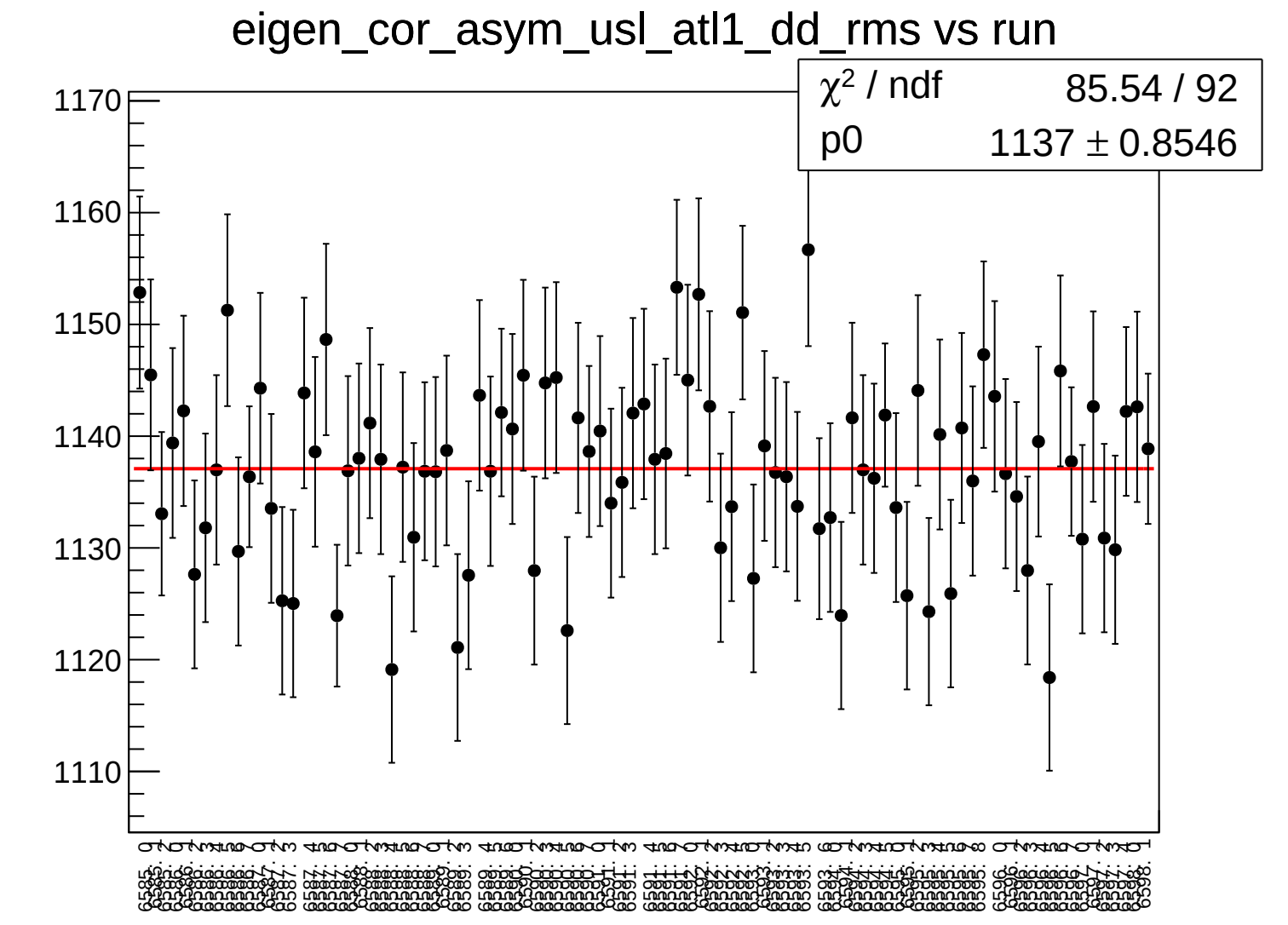

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 85.54 / 92
p0 1137 ± 0.8546
1170
1160
1150
1140
1130
1120
1110

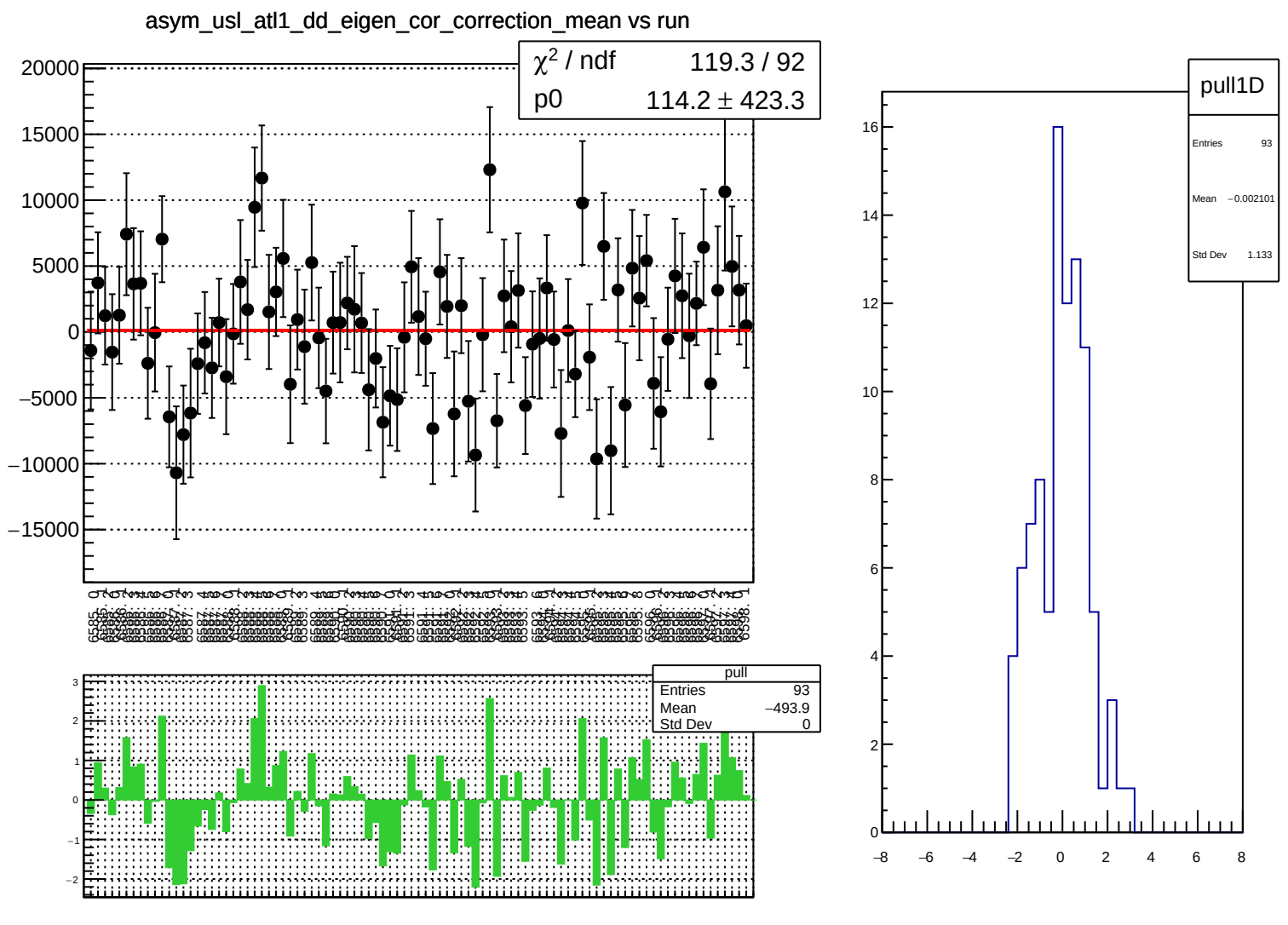

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 119.3 / 92
p0 114.2 ± 423.3
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −493.9
Std Dev 0
3
2
1
0
−1
−2

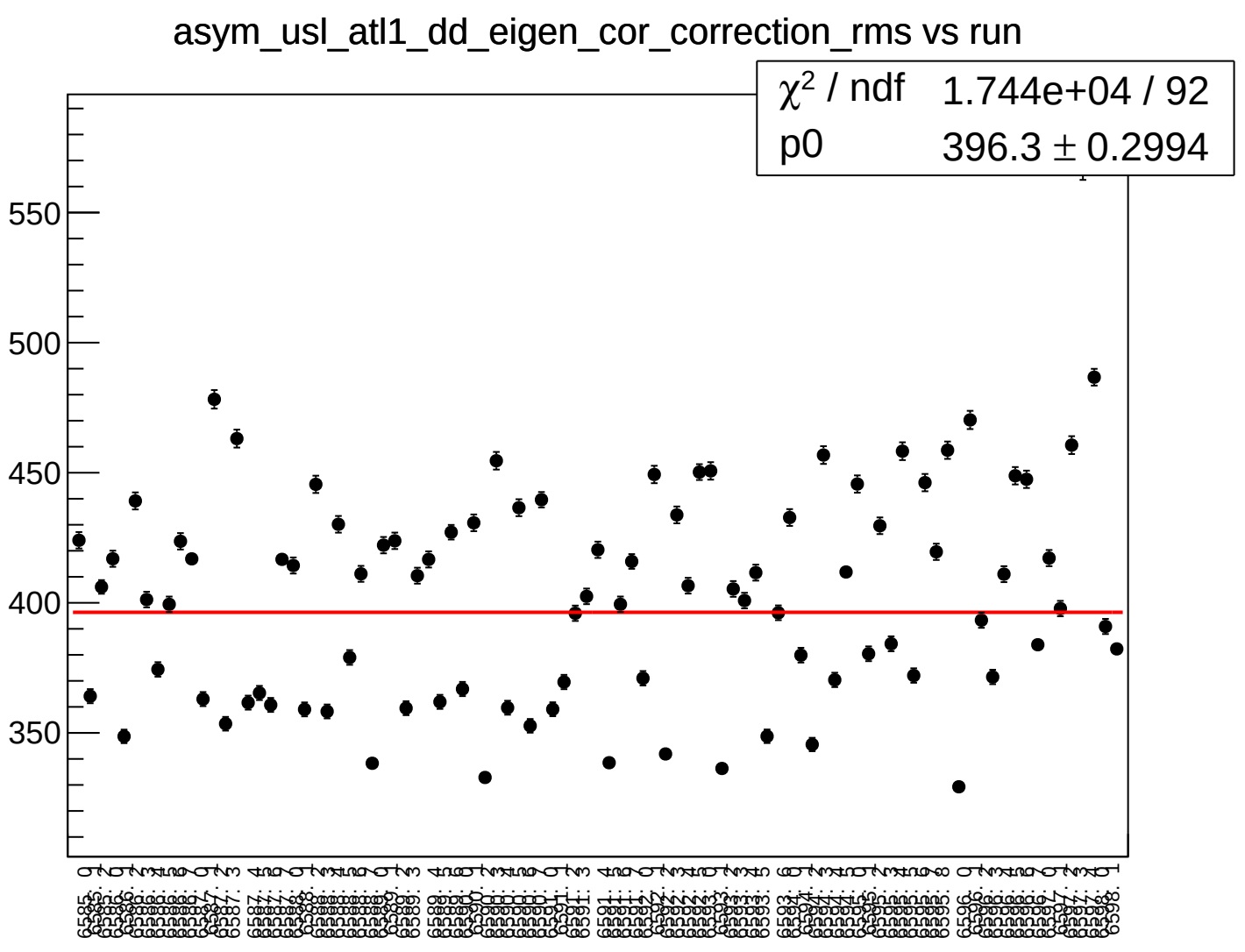

pull1D
Entries 93
Mean −0.002101
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

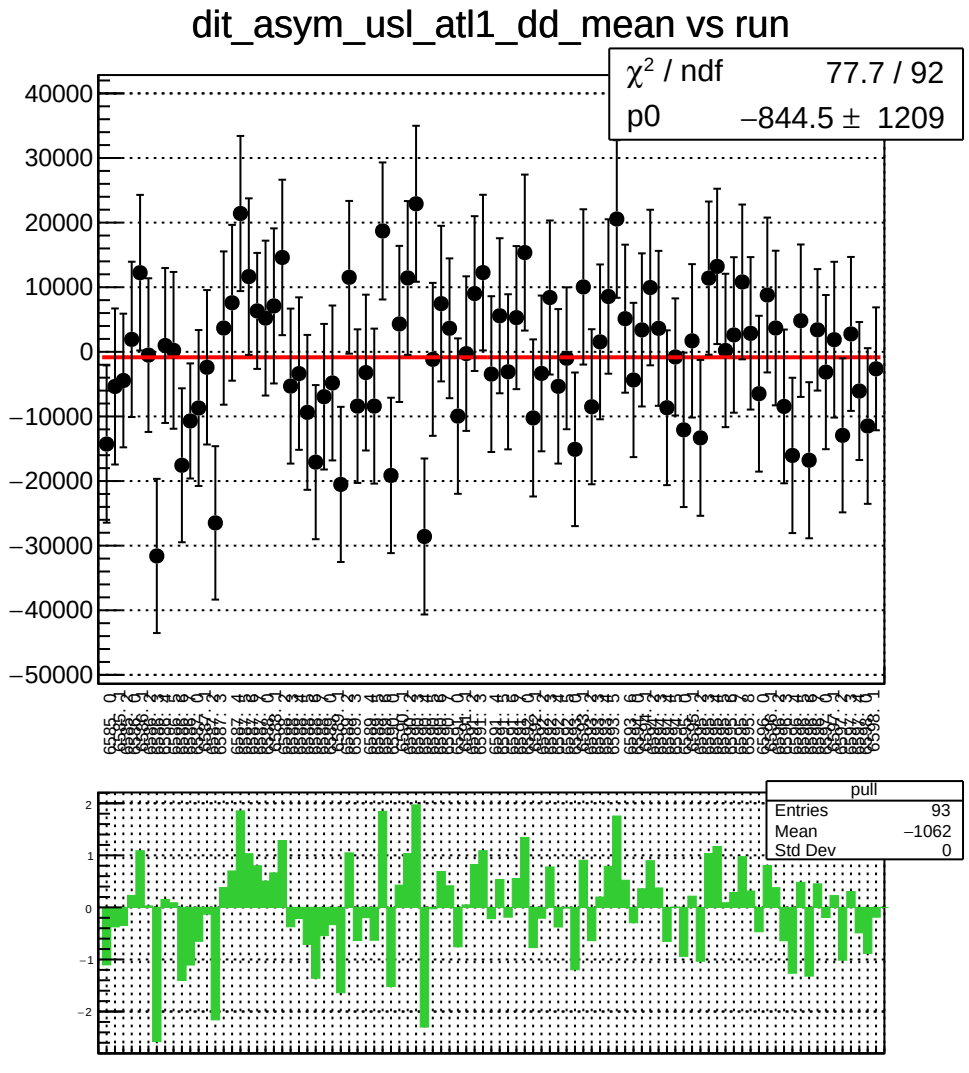

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.744e+04 / 92
p0 396.3 ± 0.2994
550
500
450
400
350

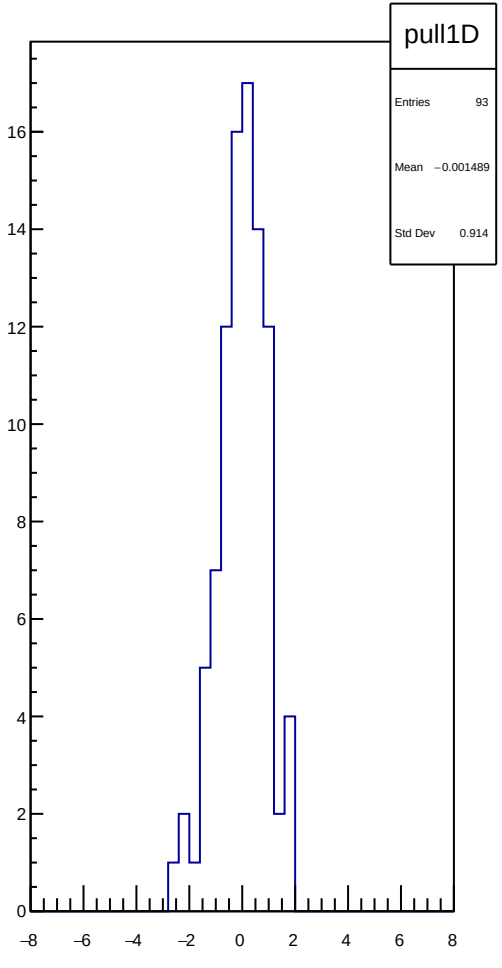

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 77.86 / 92
p0 −867.8 ± 1209
pull
Entries 93
Mean −1367
Std Dev 0
pull1D
Entries 93
Mean −0.001176
Std Dev 0.915

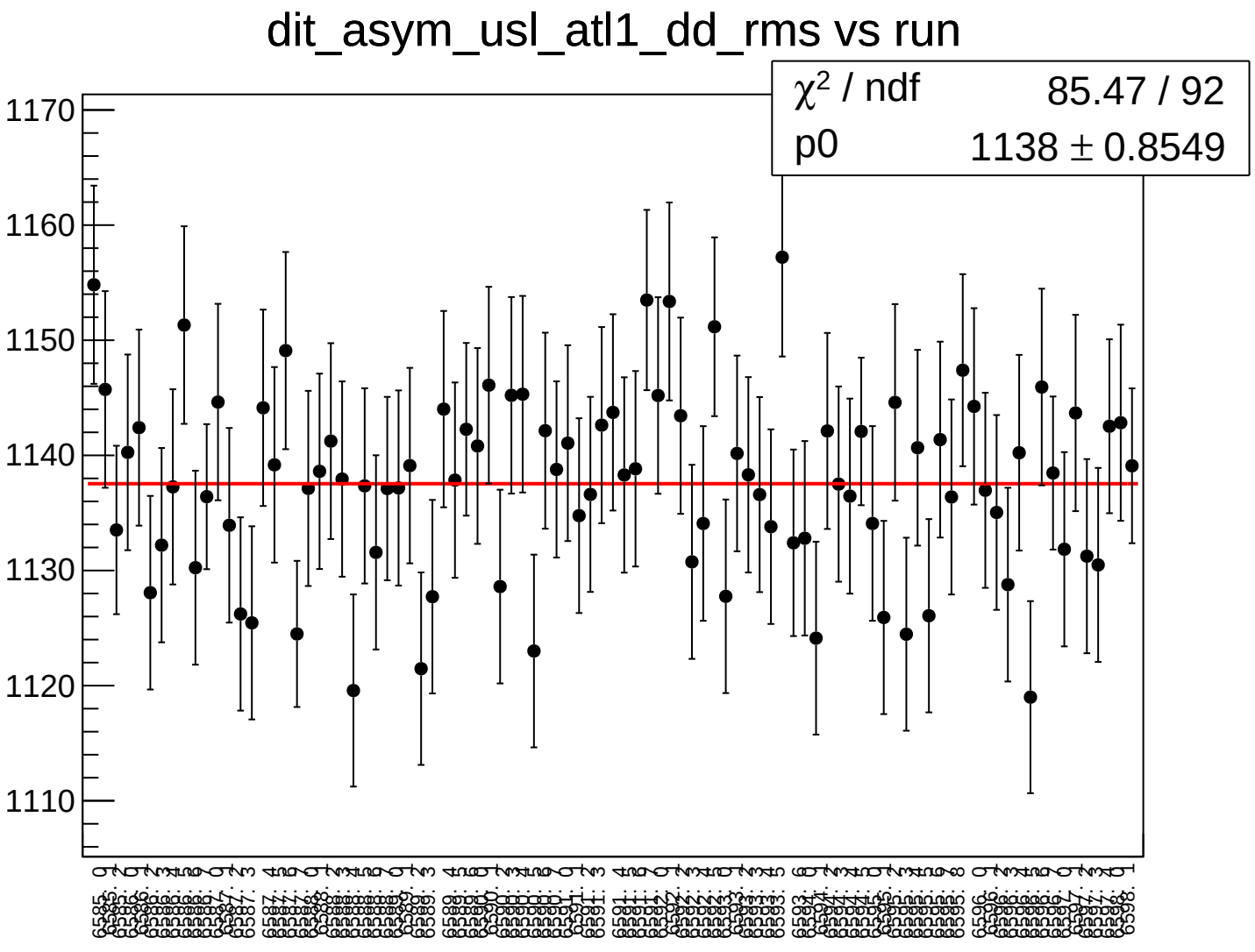

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 85.54 / 92
p0 1137 ± 0.8546
1170
1160
1150
1140
1130
1120
1110

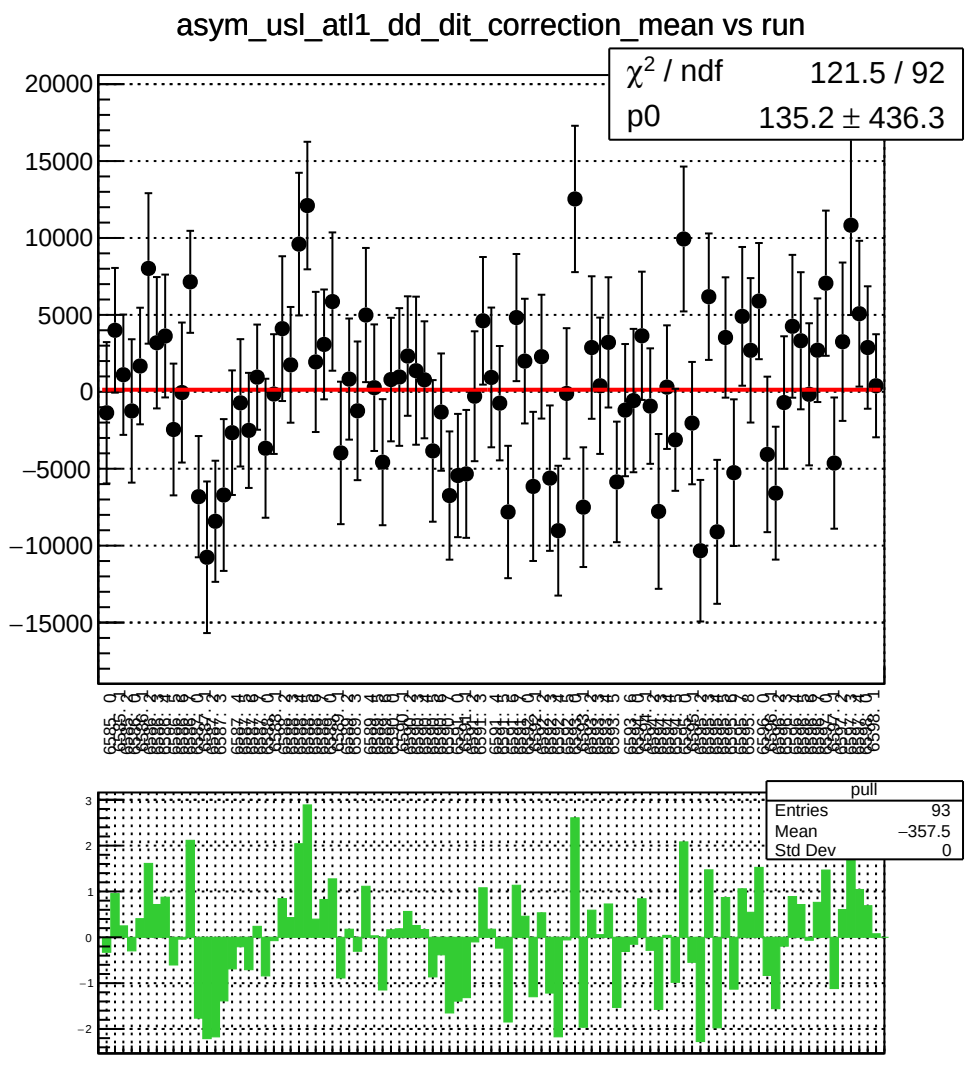

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 119.3 / 92
p0 114.2 ± 423.3
pull
Entries 93
Mean −493.9
Std Dev 0
pull1D
Entries 93
Mean −0.002101
Std Dev 1.133

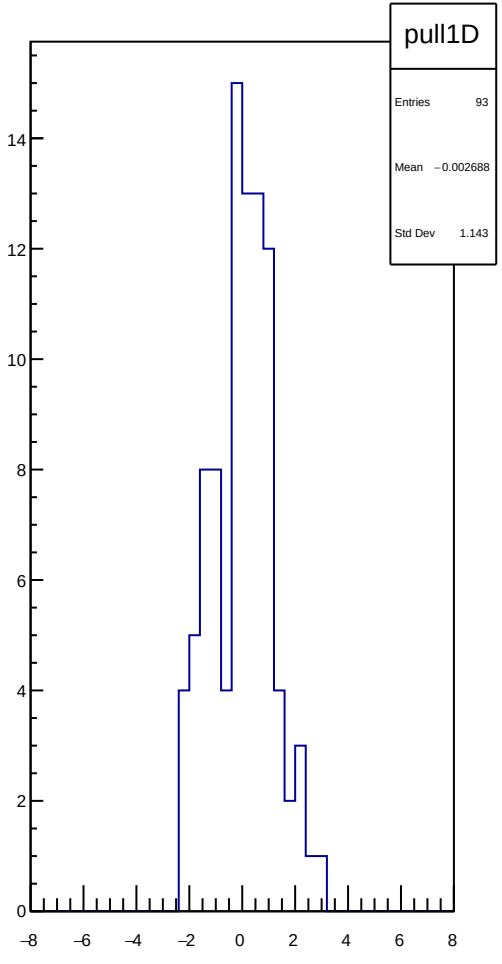

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.744e+04 / 92
p0 396.3 ± 0.2994
550
500
450
400
350

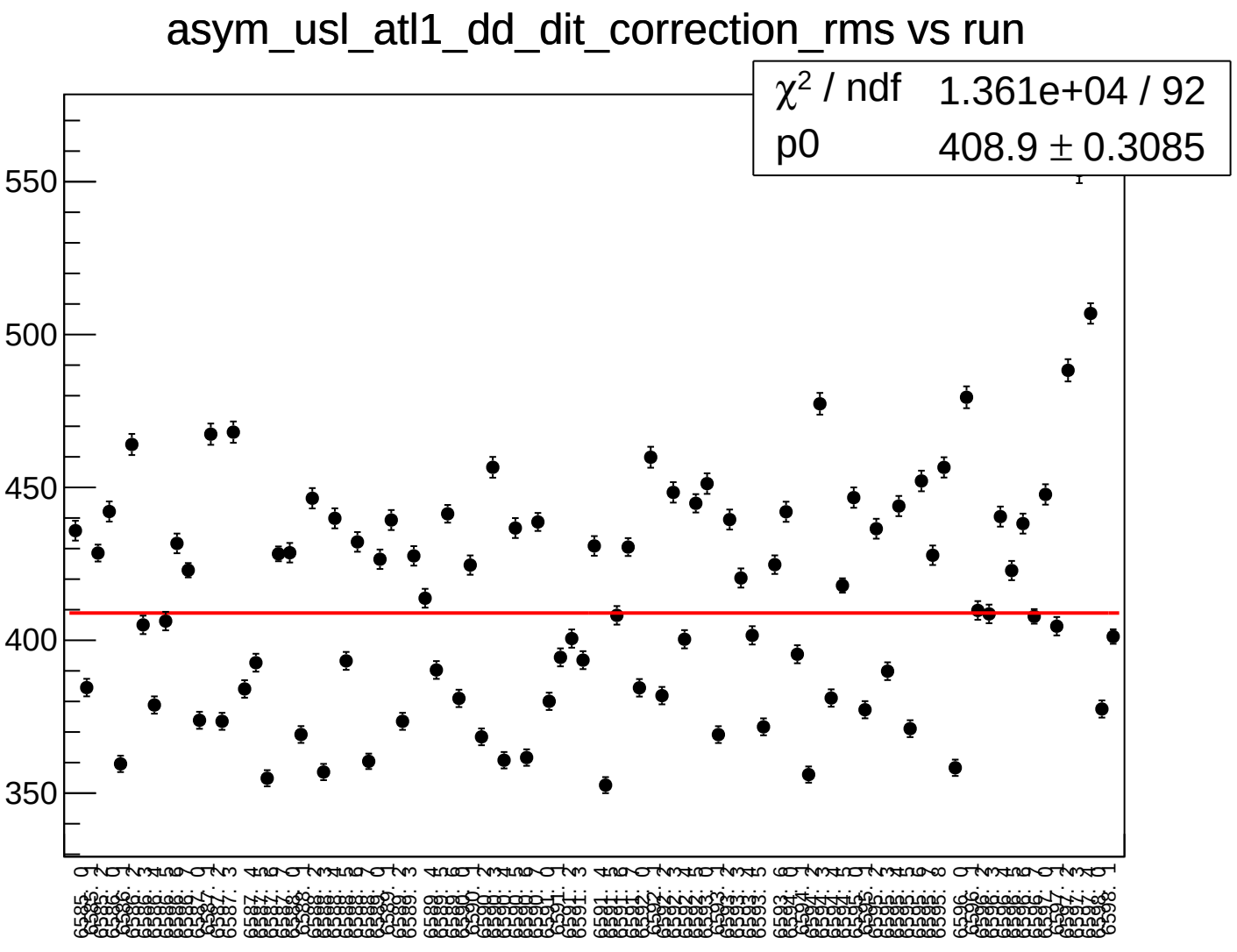

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 77.7 / 92
p0 −844.5 ± 1209
pull
Entries 93
Mean −1062
Std Dev 0

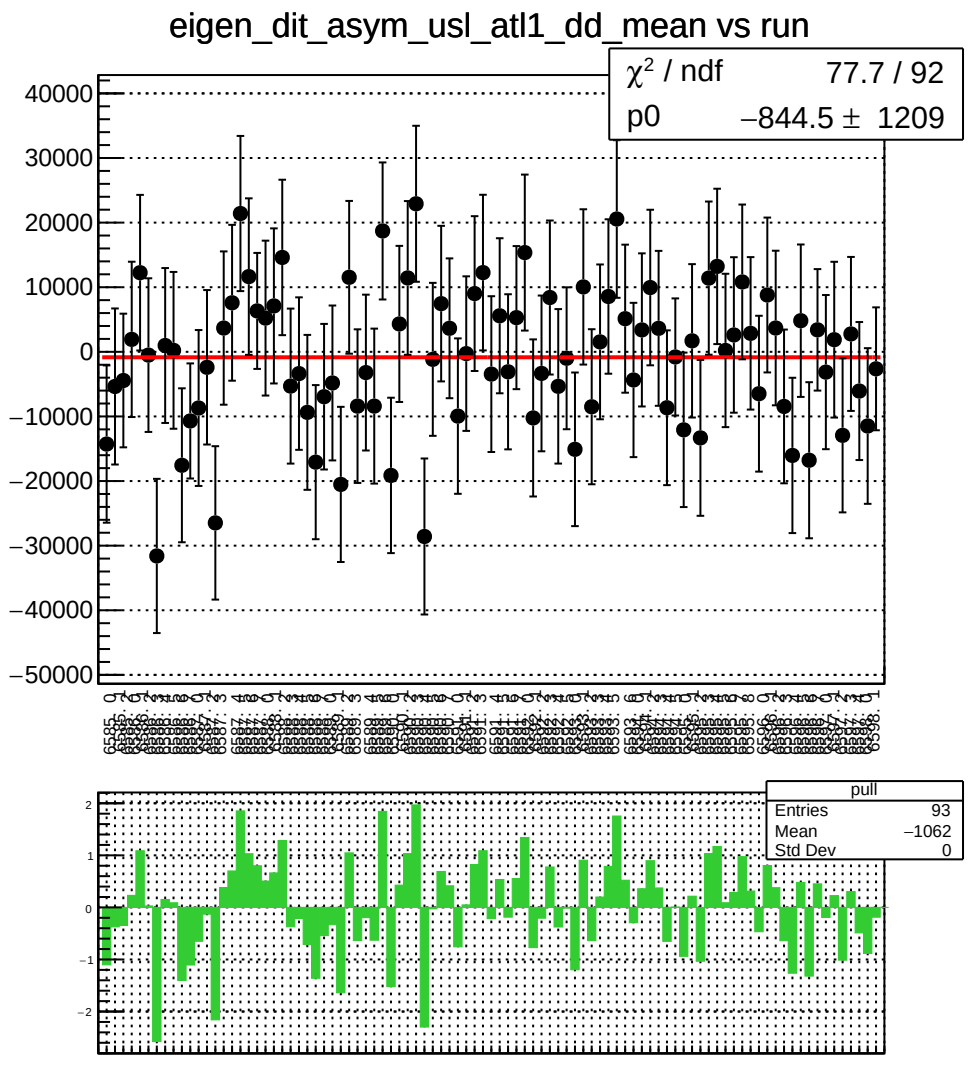

pull1D
Entries 93
Mean −0.001489
Std Dev 0.914

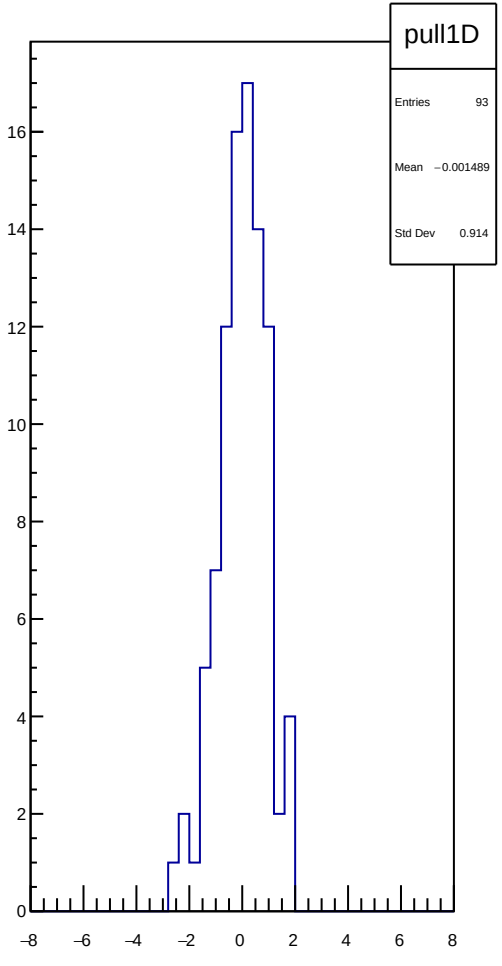

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 85.47 / 92
p0 1138 ± 0.8549
1170
1160
1150
1140
1130
1120
1110

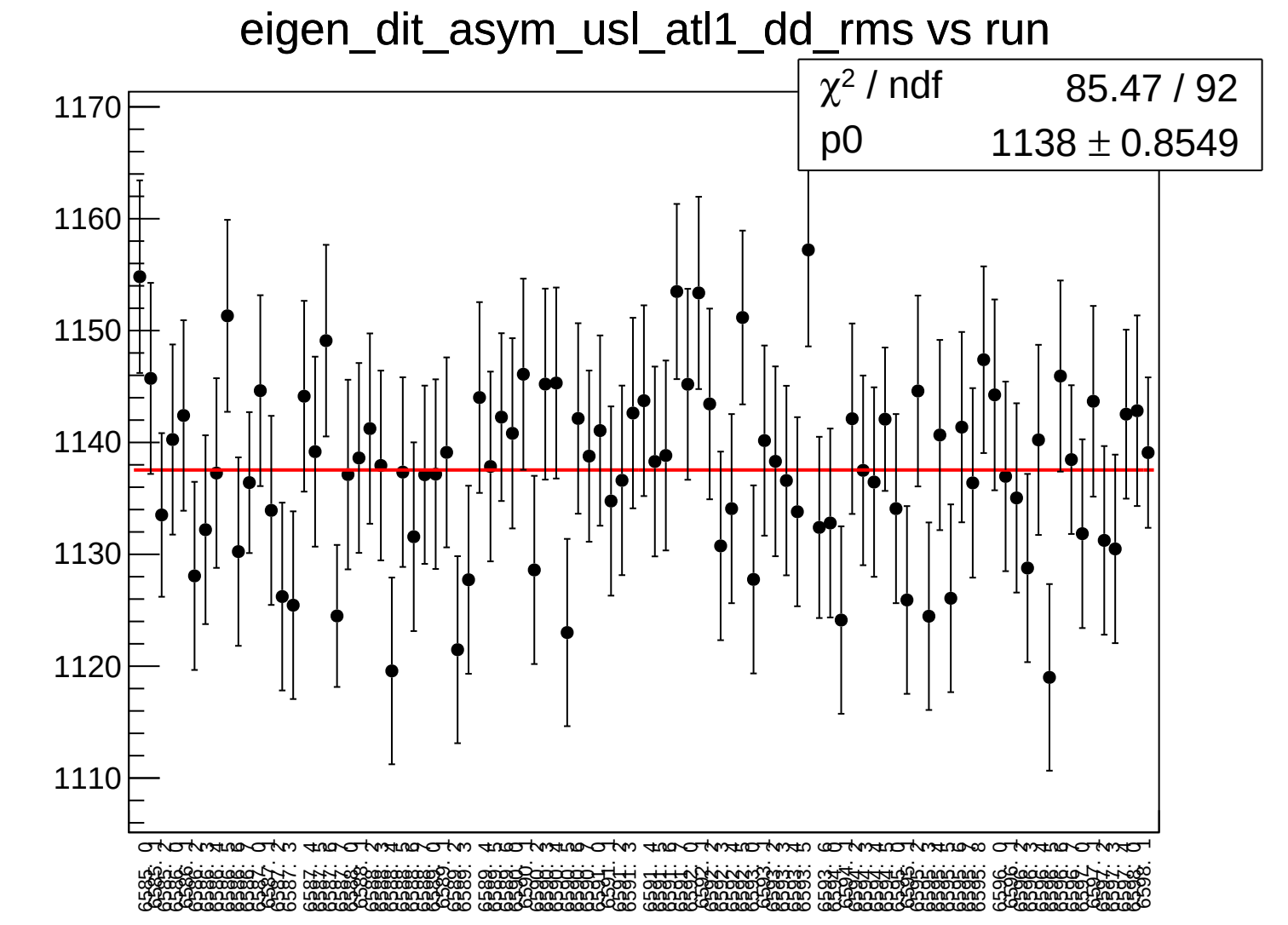

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 121.5 / 92
p0 135.2 ± 436.3
pull
Entries 93
Mean −357.5
Std Dev 0

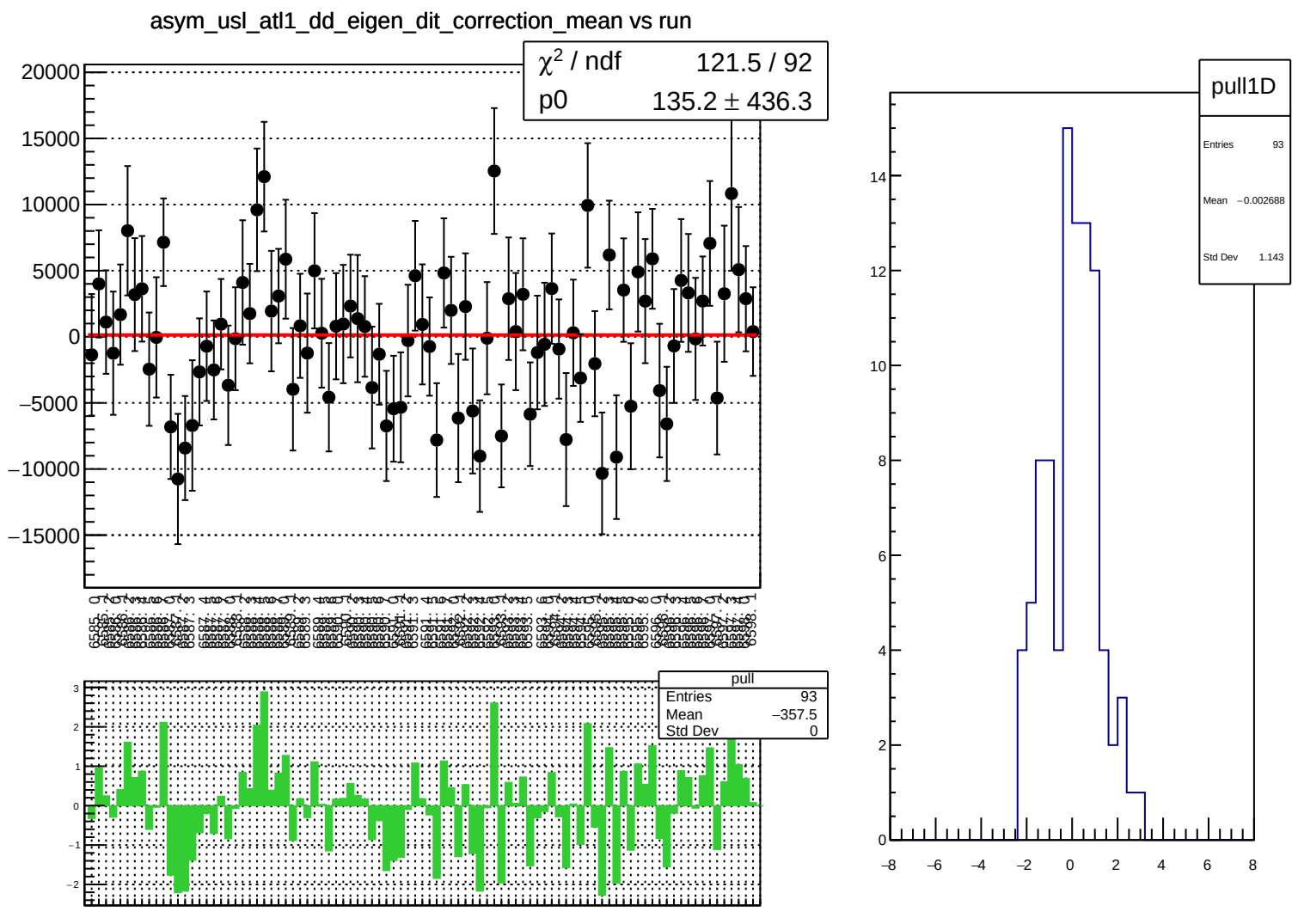

pull1D
Entries 93
Mean −0.002688
Std Dev 1.143

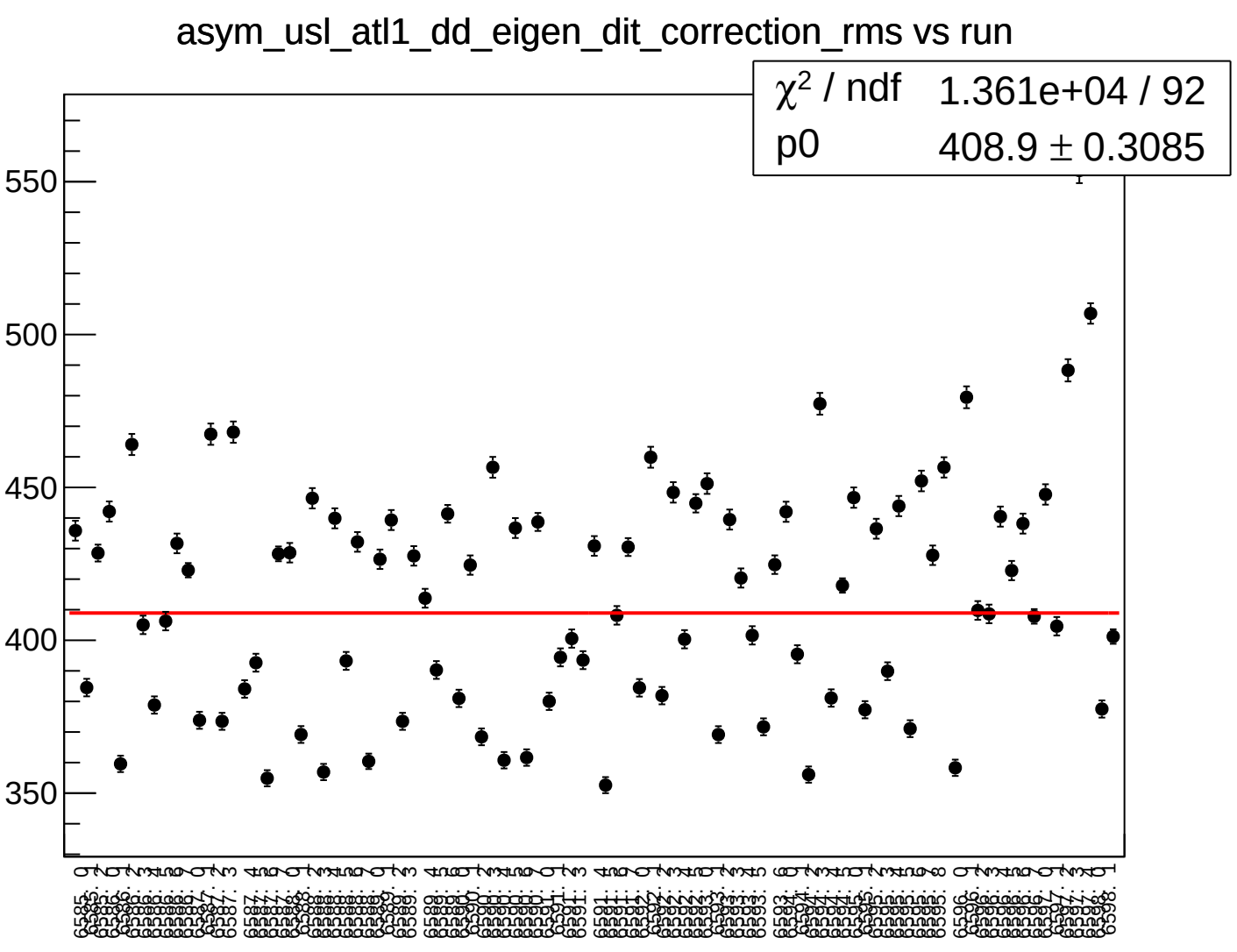

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.361e+04 / 92
p0 408.9 ± 0.3085
550
500
450
400
350

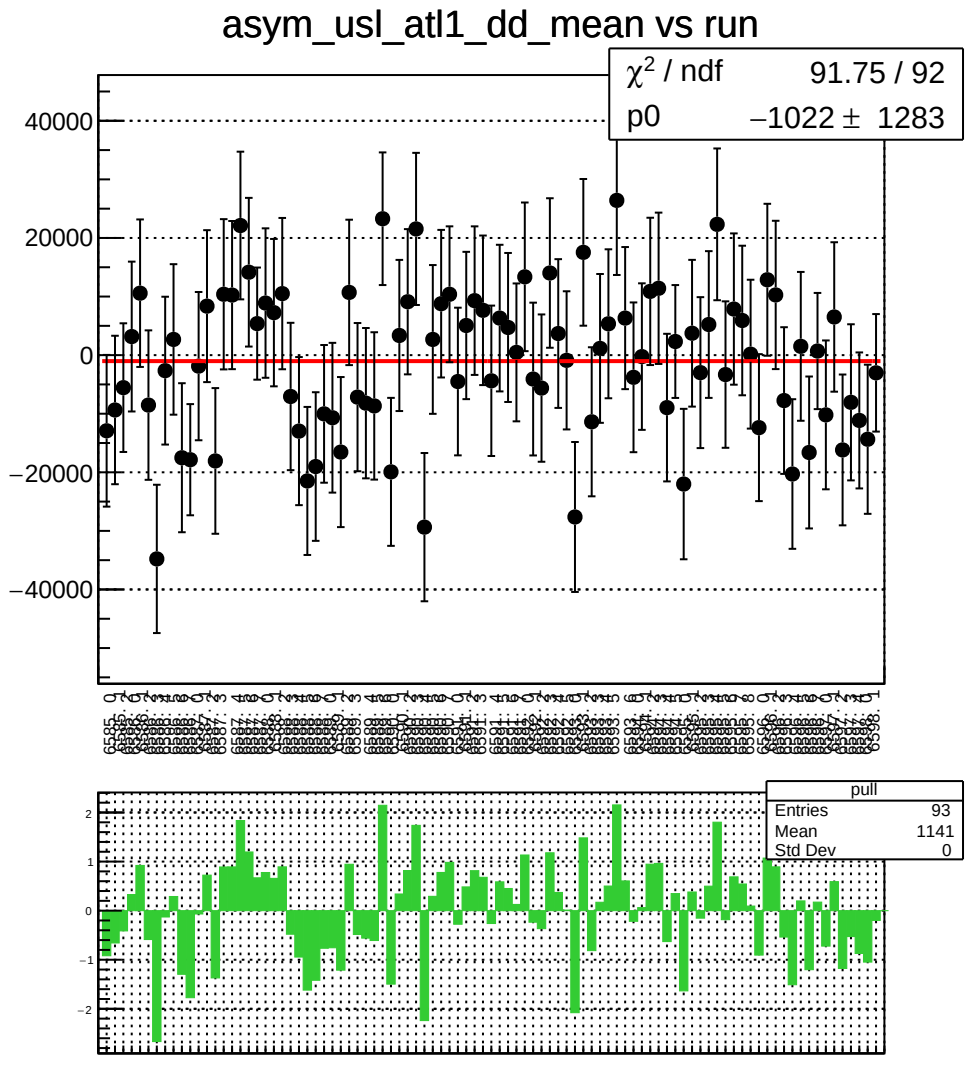

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 77.7 / 92
p0 −844.5 ± 1209
pull
Entries 93
Mean −1062
Std Dev 0

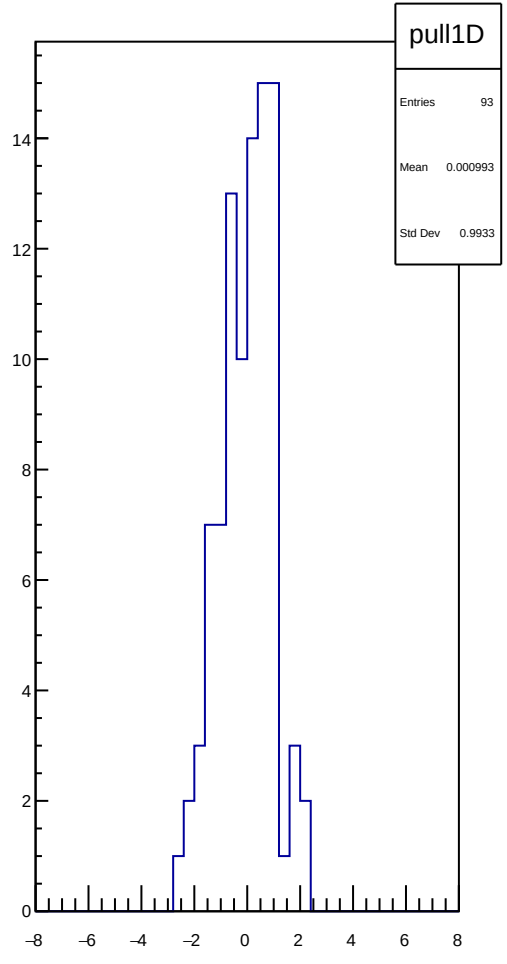

pull1D
Entries 93
Mean −0.001489
Std Dev 0.914

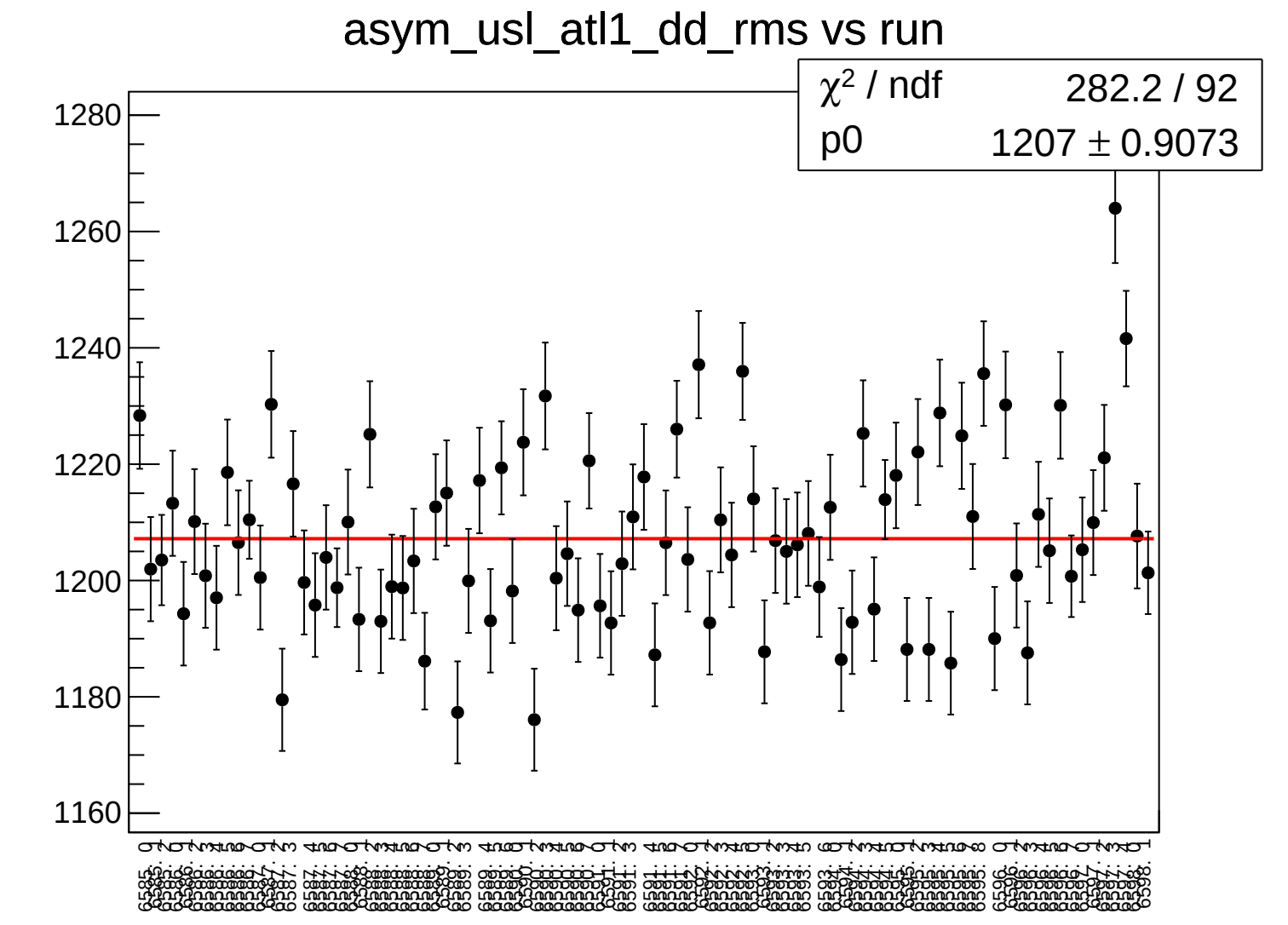

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 85.47 / 92
p0 1138 ± 0.8549
1170
1160
1150
1140
1130
1120
1110

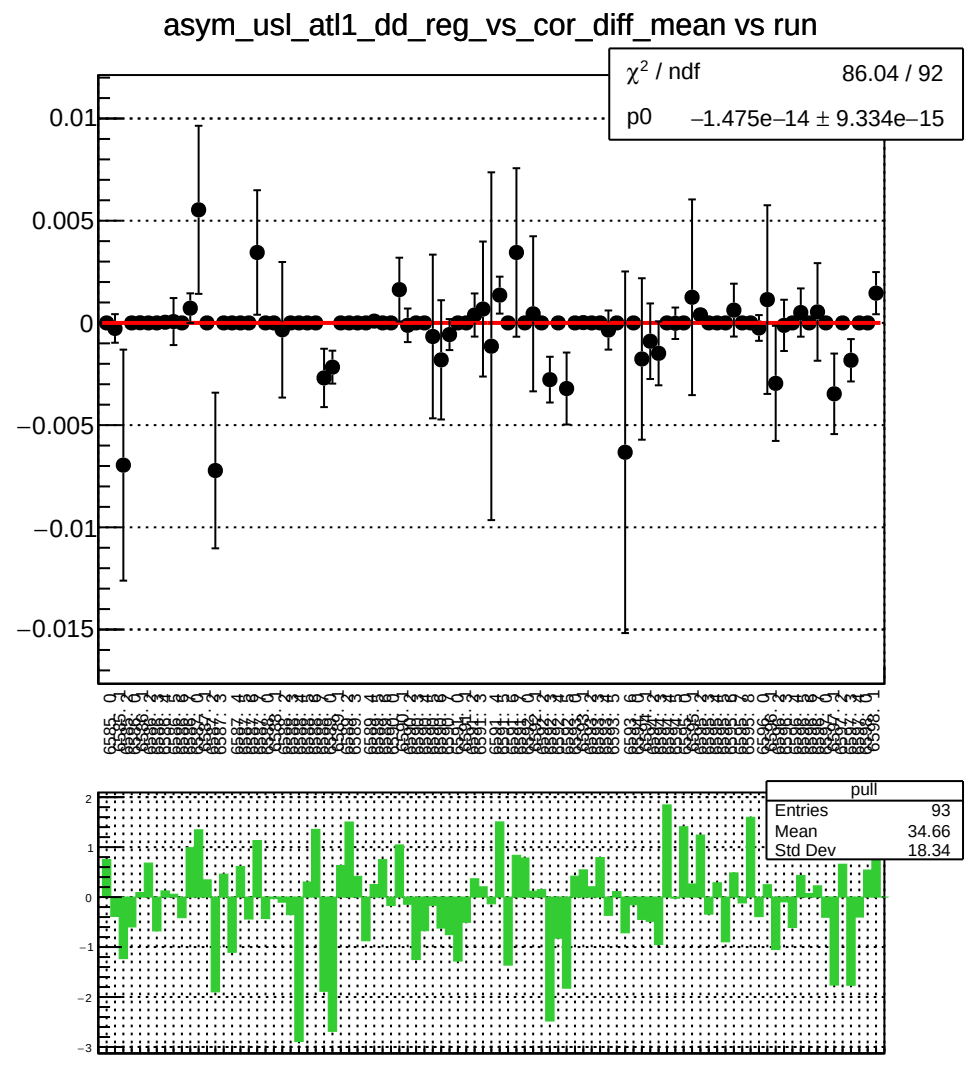

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 121.5 / 92
p0 135.2 ± 436.3
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −357.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.002688
Std Dev 1.143
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

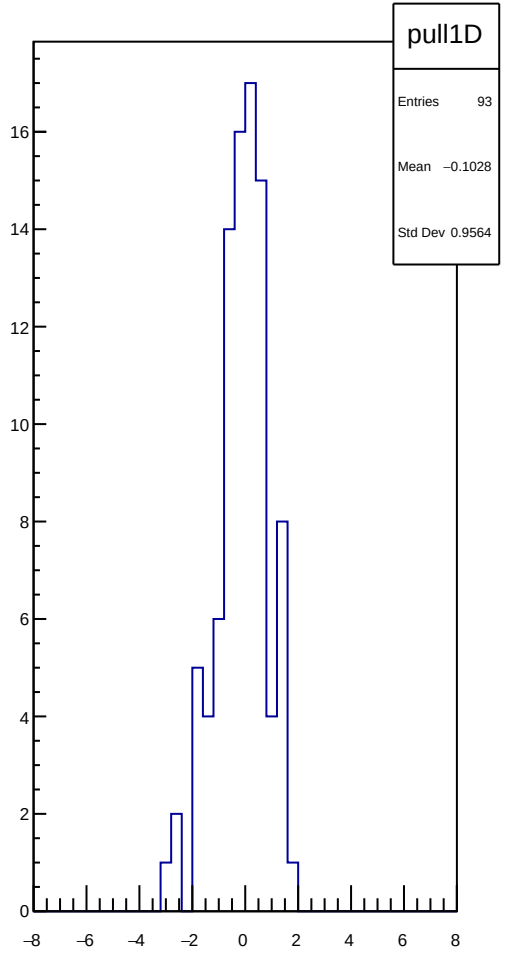

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.361e+04 / 92
p0 408.9 ± 0.3085
550
500
450
400
350

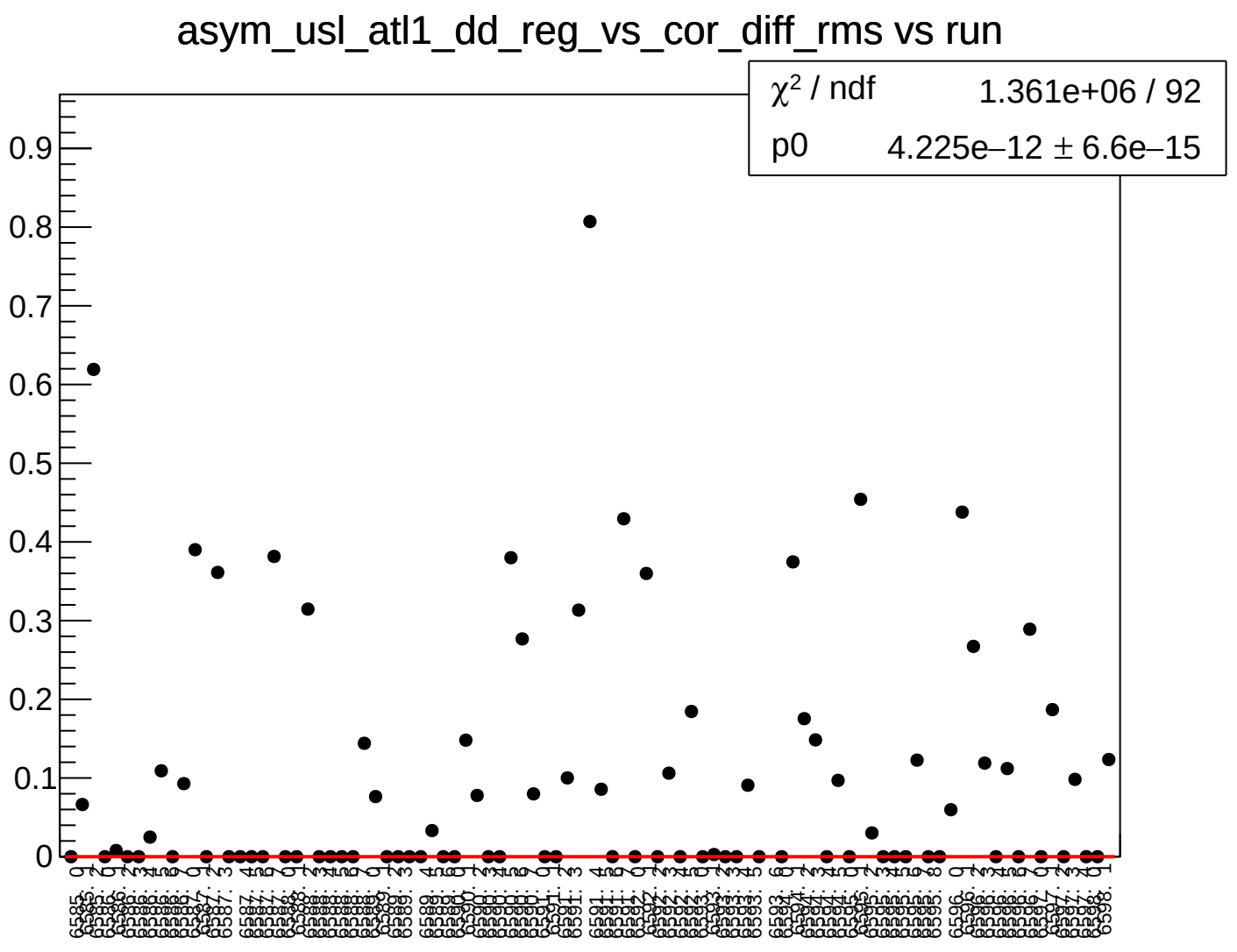

asym_usl_atl1_dd_mean vs run
χ^2 / ndf 91.75 / 92
p0 −1022 ± 1283
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1141
Std Dev 0
2
1
0
−1
−2

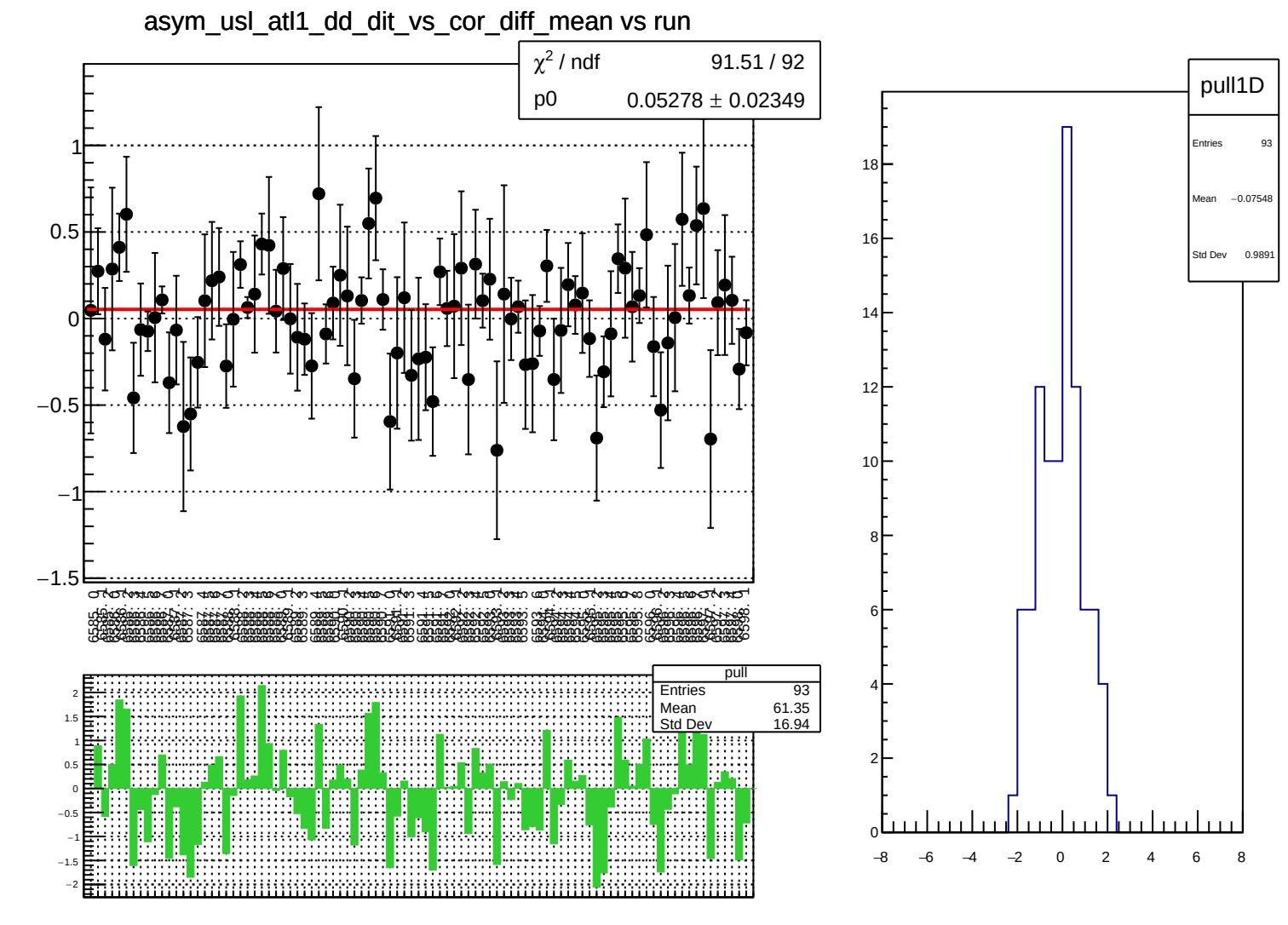

pull1D
Entries 93
Mean 0.000993
Std Dev 0.9933
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

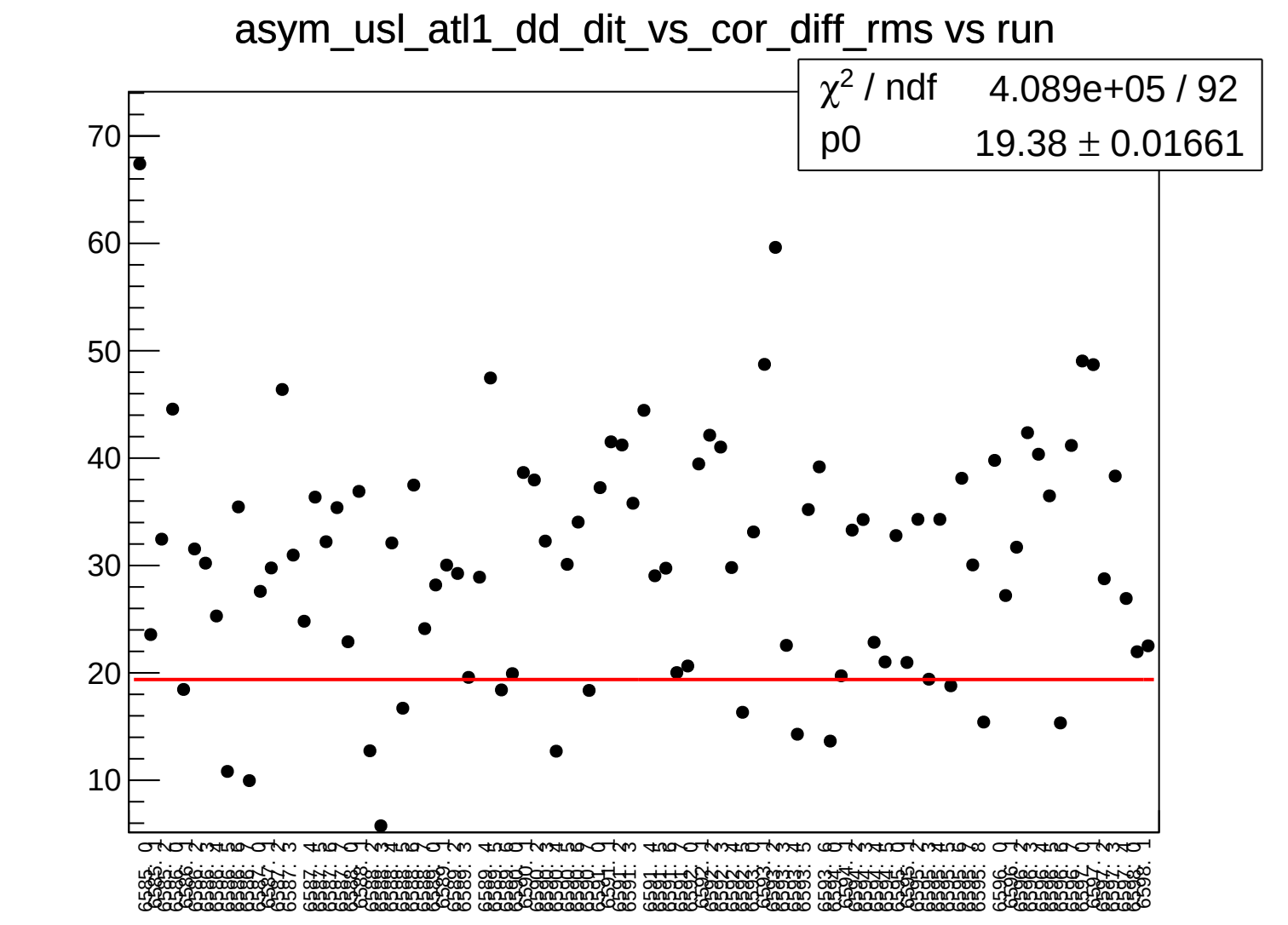

asym_usl_atl1_dd_rms vs run
χ² / ndf 282.2 / 92
p0 1207 ± 0.9073
1280
1260
1240
1220
1200
1180
1160

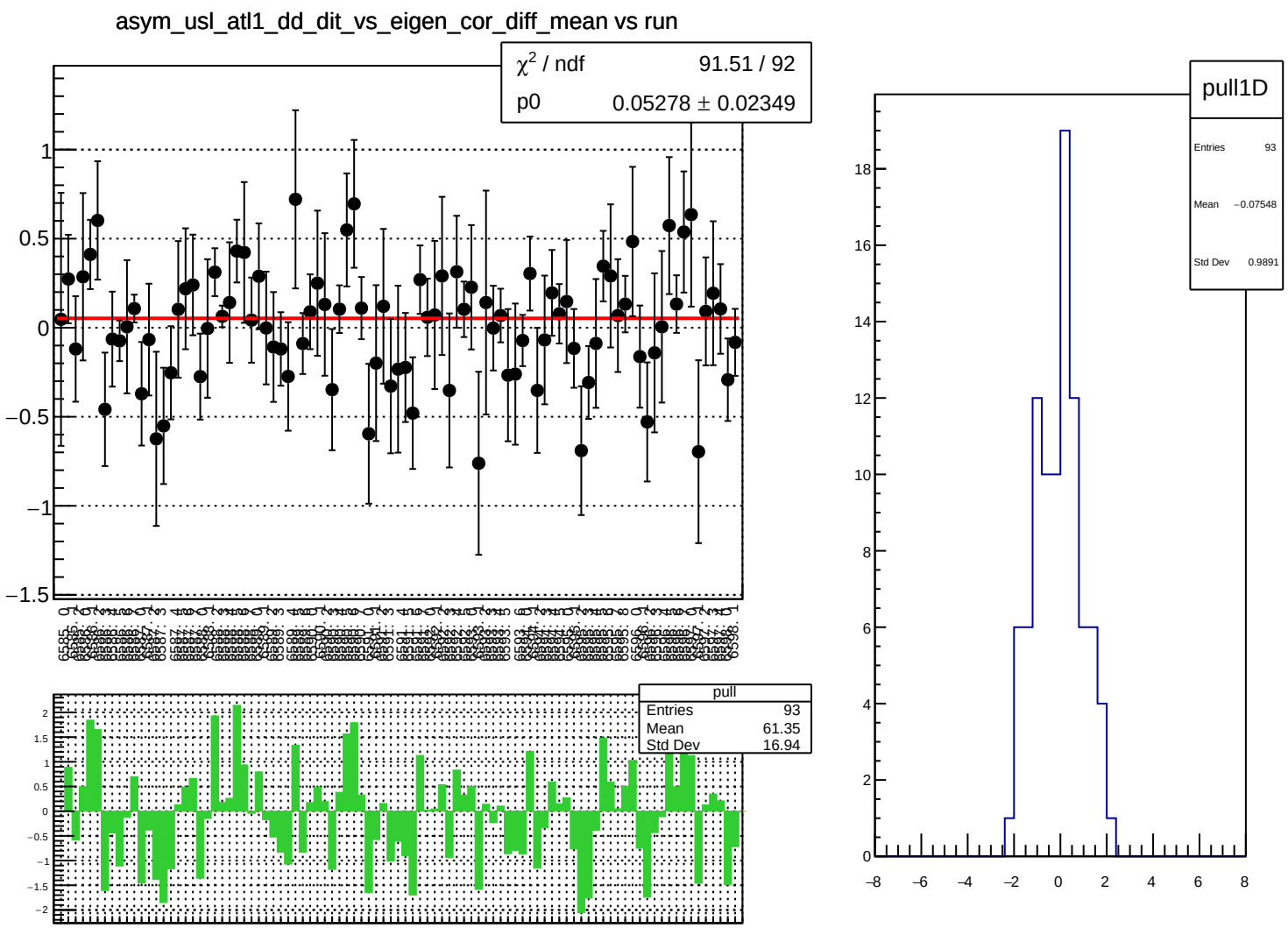

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.04 / 92
p0 −1.475e−14 ± 9.334e−15
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 34.66
Std Dev 18.34
2
1
0
−1
−2
−3

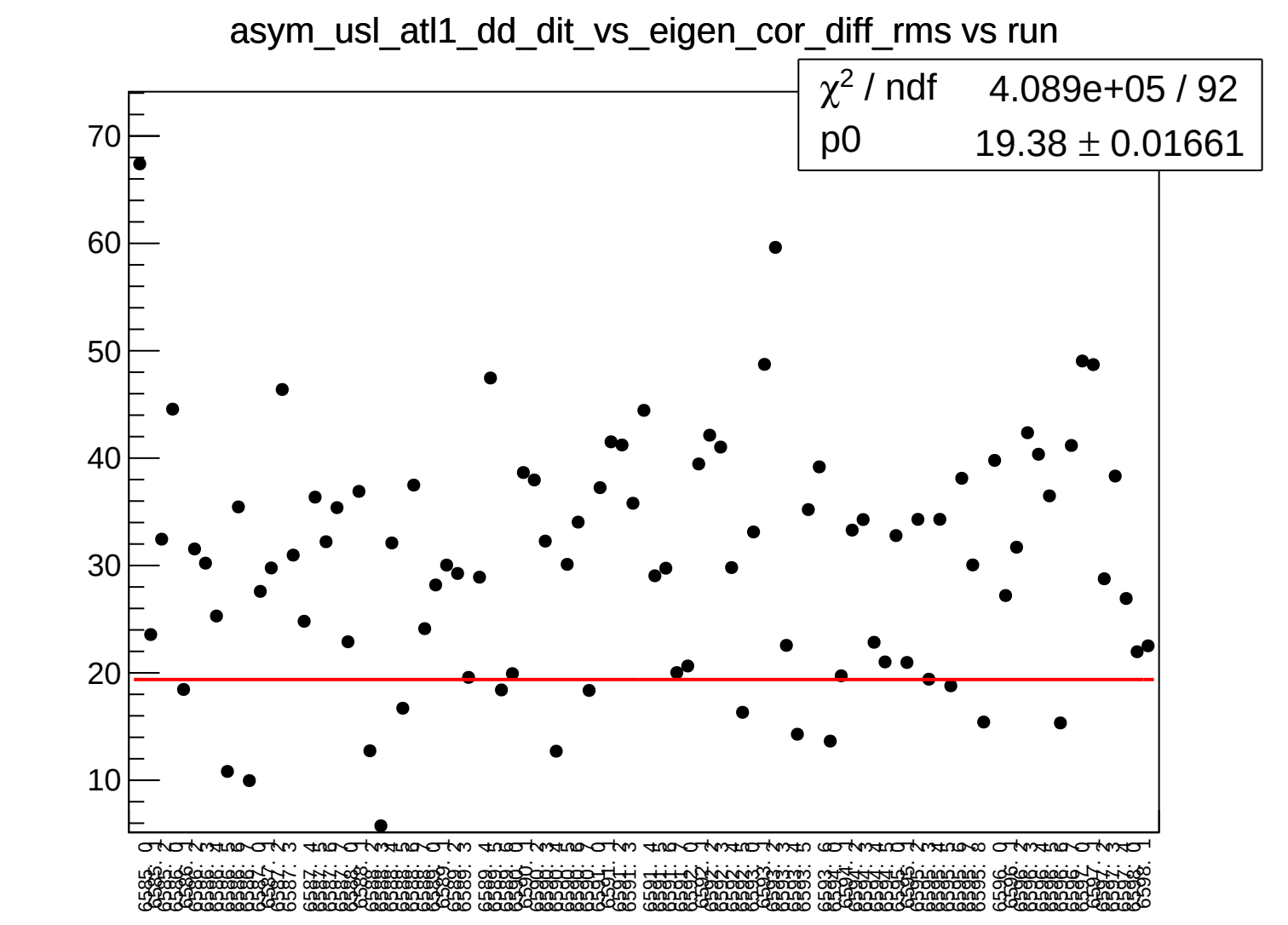

pull1D
Entries 93
Mean −0.1028
Std Dev 0.9564
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

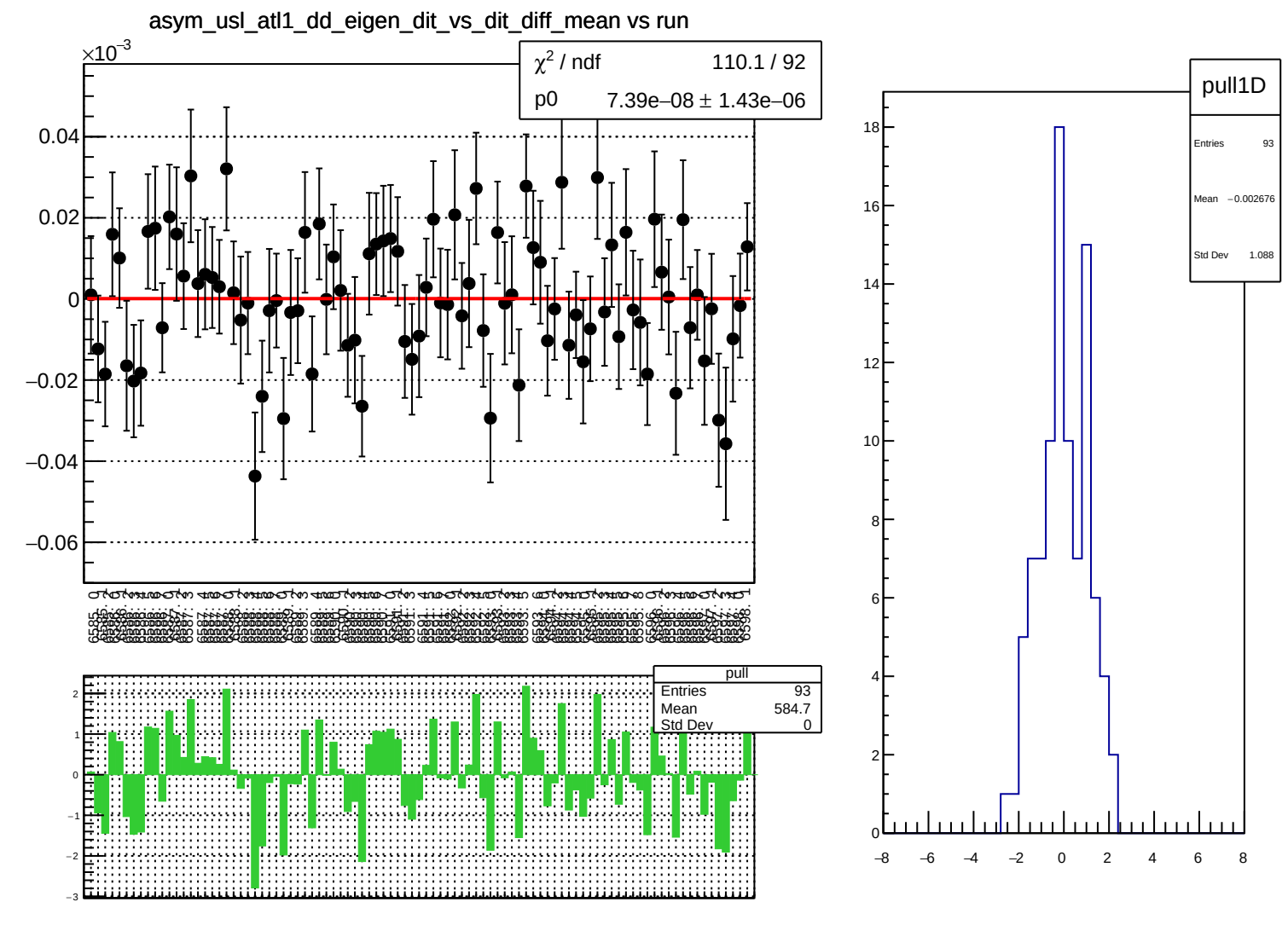

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.361e+06 / 92
p0 4.225e−12 ± 6.6e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

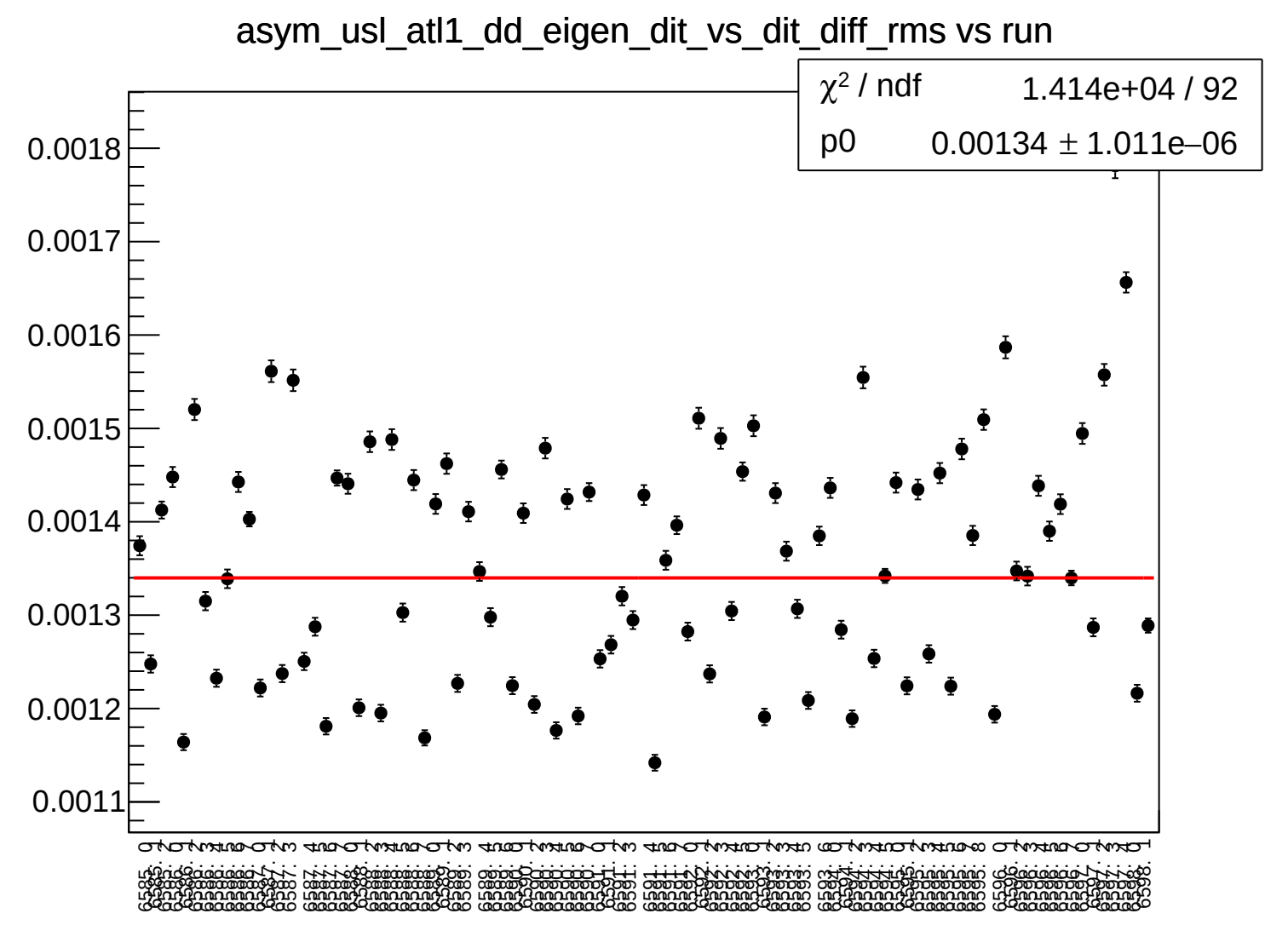

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.51 / 92
p0 0.05278 ± 0.02349
pull
Entries 93
Mean 61.35
Std Dev 16.94
pull1D
Entries 93
Mean −0.07548
Std Dev 0.9891

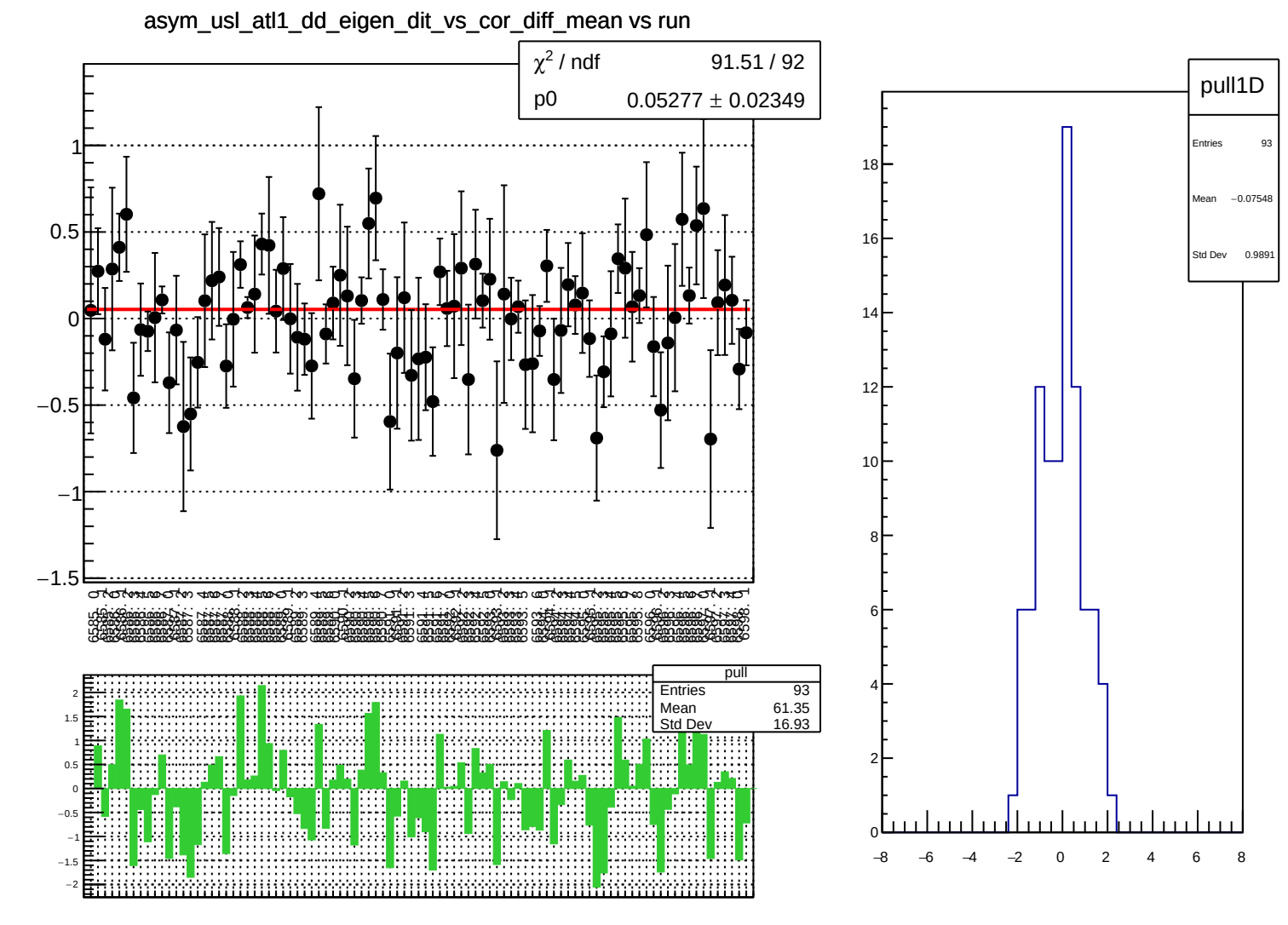

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.089e+05 / 92
p0 19.38 ± 0.01661
70
60
50
40
30
20
10

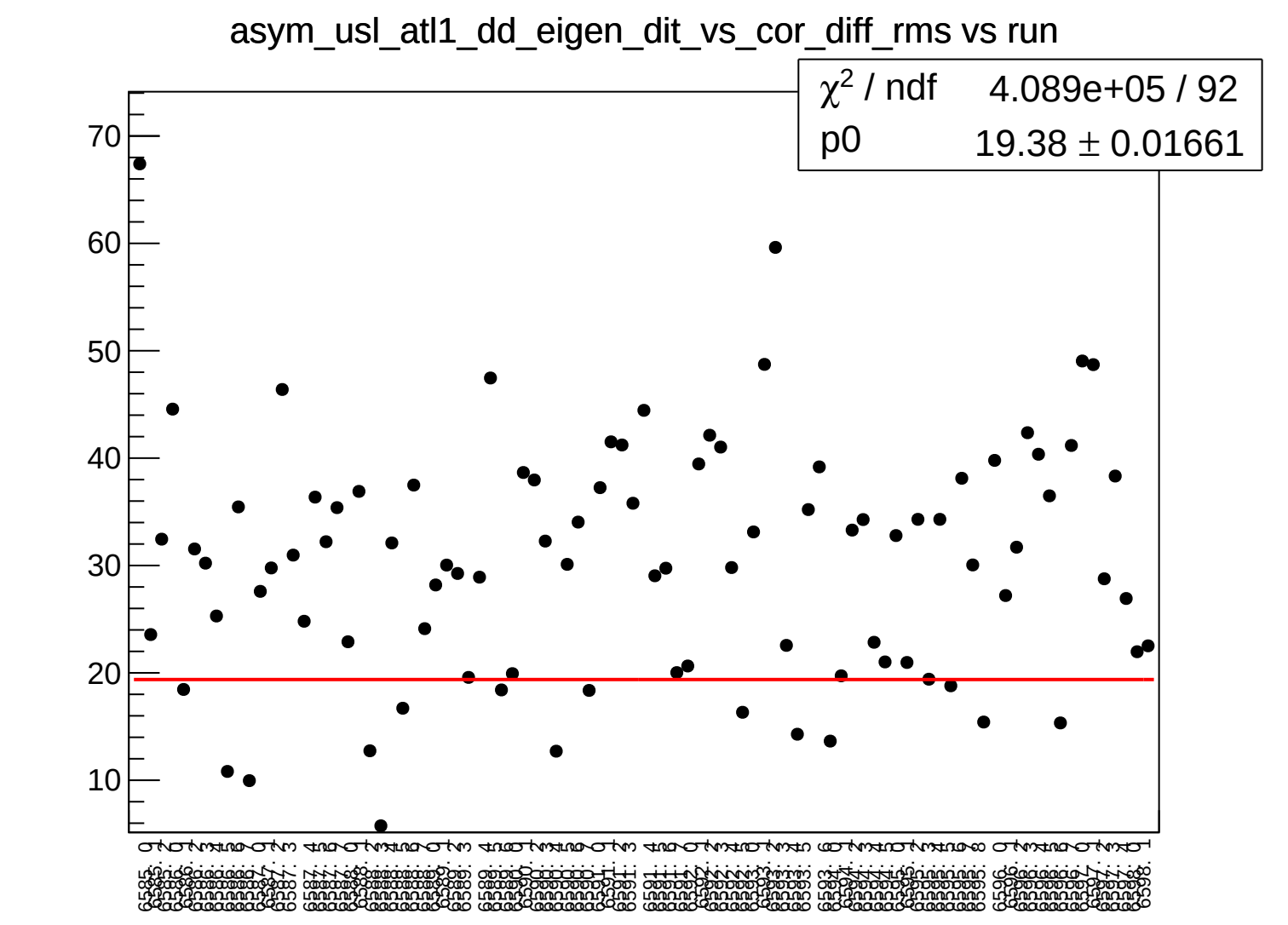

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.51 / 92
p0 0.05278 ± 0.02349
pull
Entries 93
Mean 61.35
Std Dev 16.94
pull1D
Entries 93
Mean −0.07548
Std Dev 0.9891

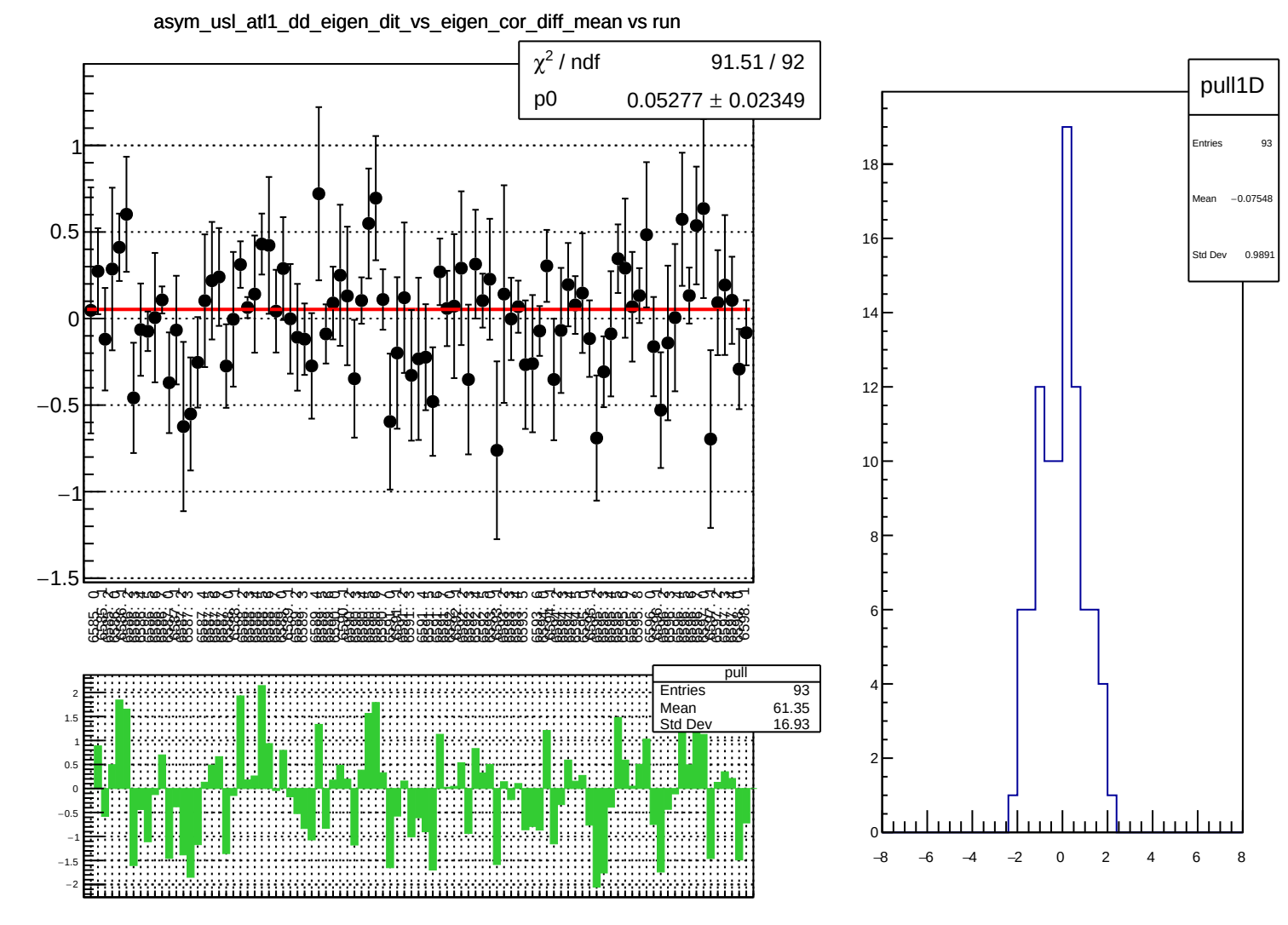

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.089e+05 / 92
p0 19.38 ± 0.01661
70
60
50
40
30
20
10

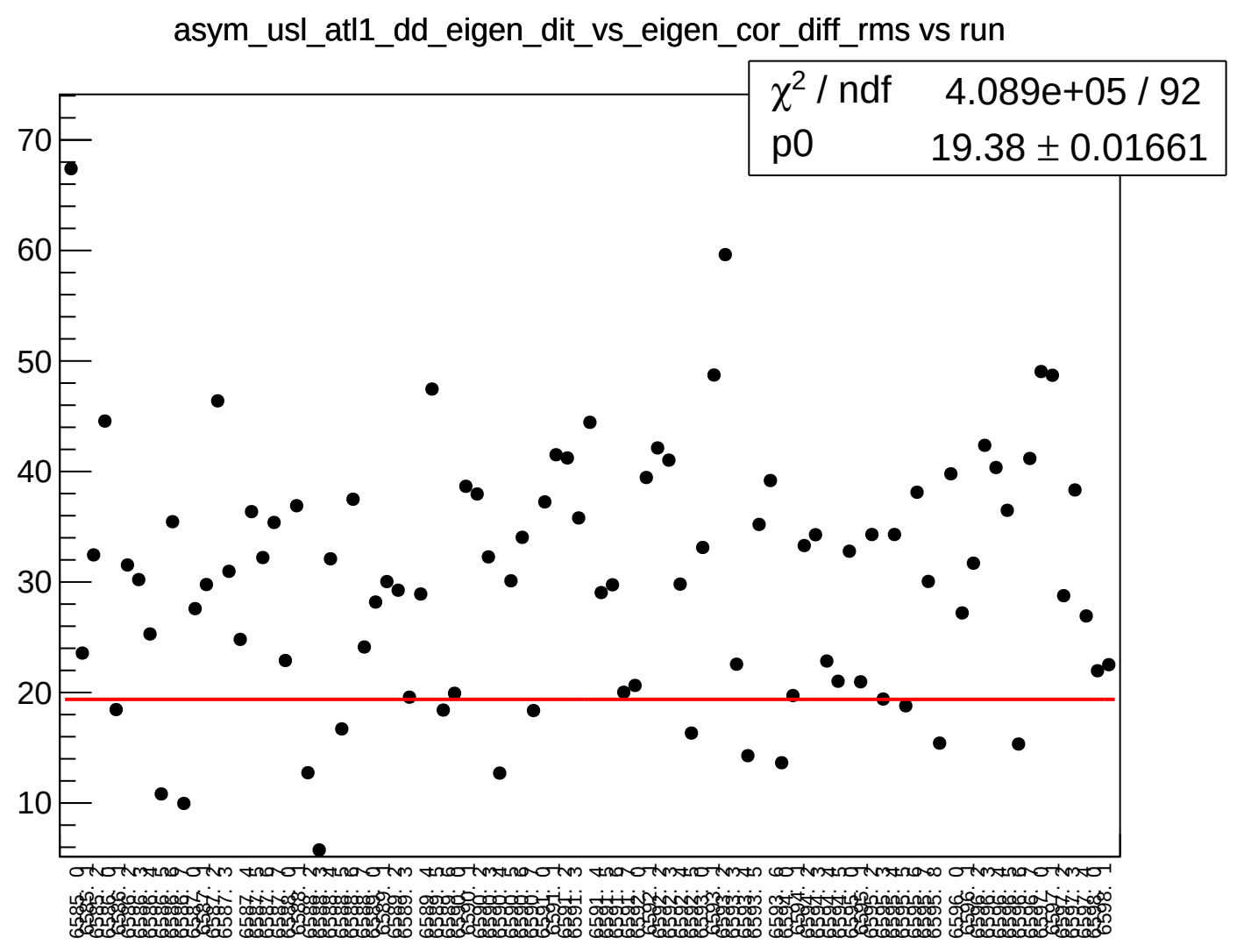

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.1 / 92
p0 7.39e−08 ± 1.43e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 584.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002676
Std Dev 1.088
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

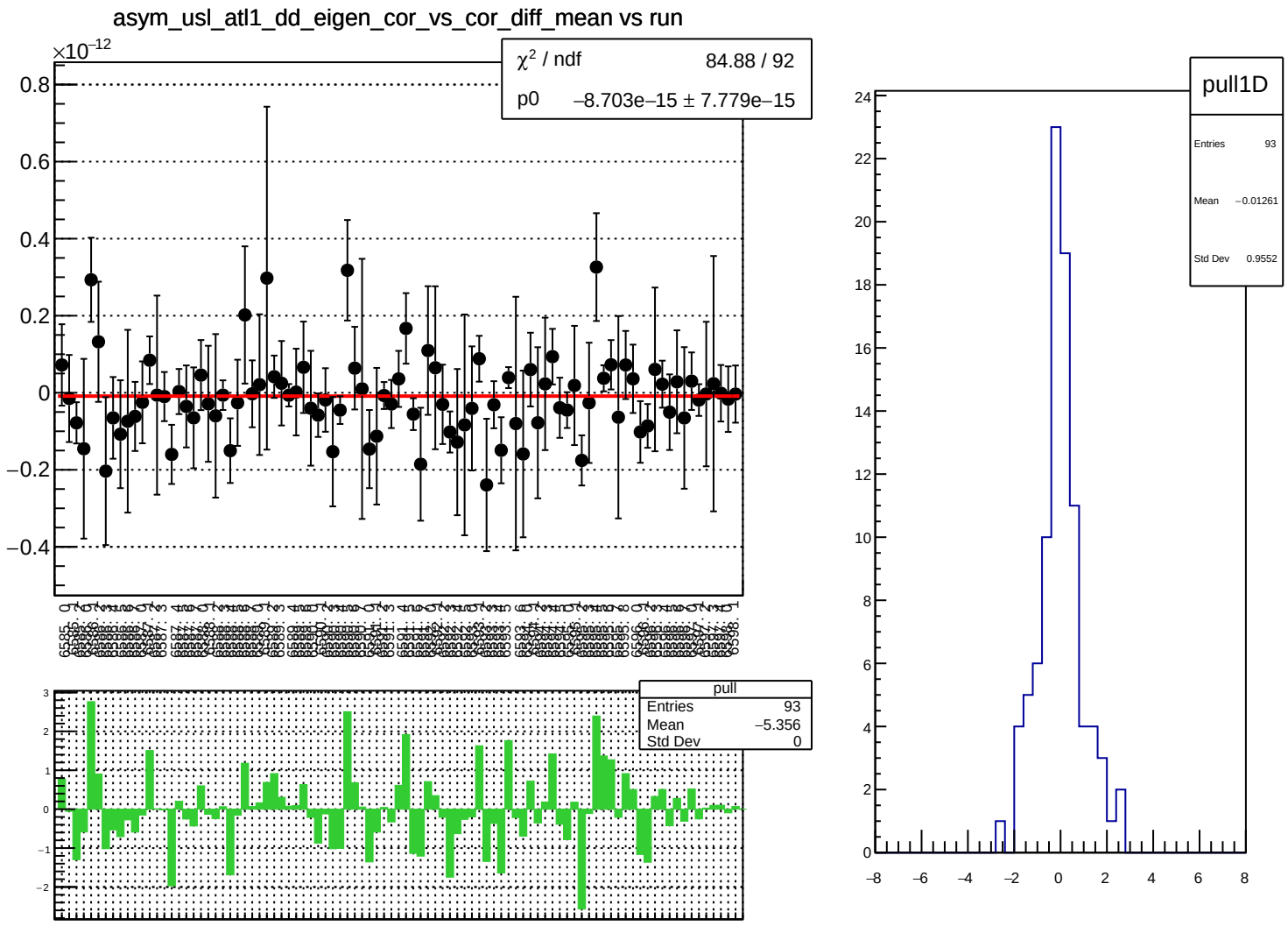

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.414e+04 / 92
p0 0.00134 ± 1.011e–06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

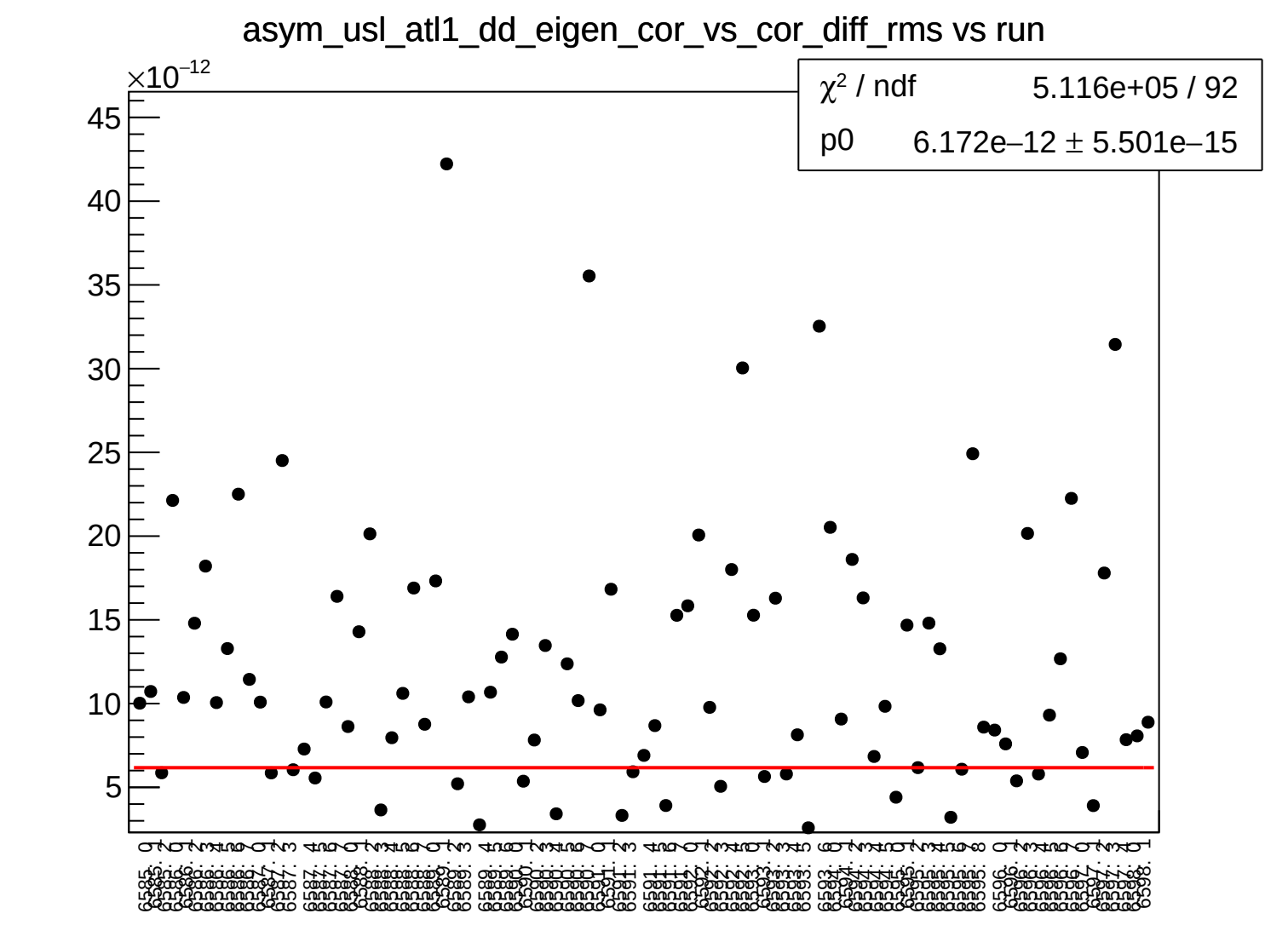

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.51 / 92
p0 0.05277 ± 0.02349
pull
Entries 93
Mean 61.35
Std Dev 16.93
pull1D
Entries 93
Mean −0.07548
Std Dev 0.9891

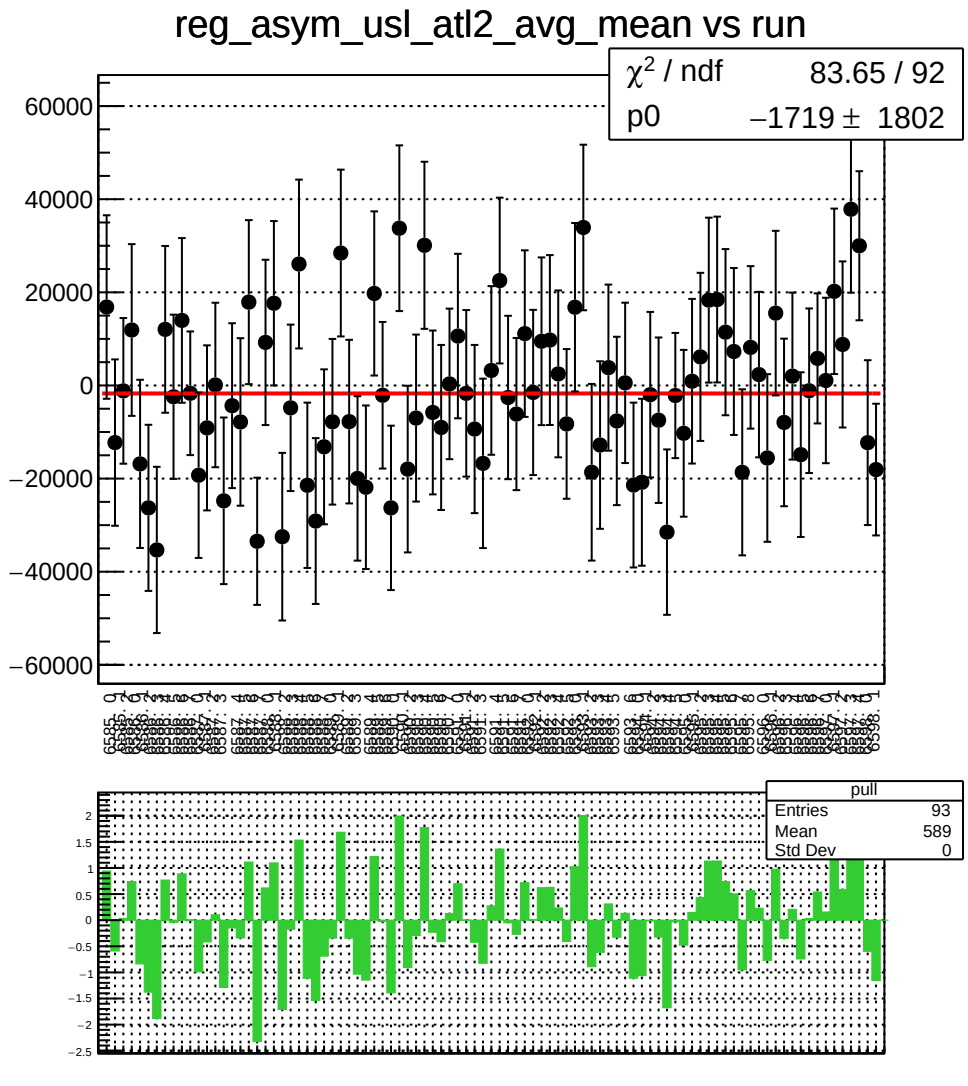

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.089e+05 / 92
p0 19.38 ± 0.01661
70
60
50
40
30
20
10

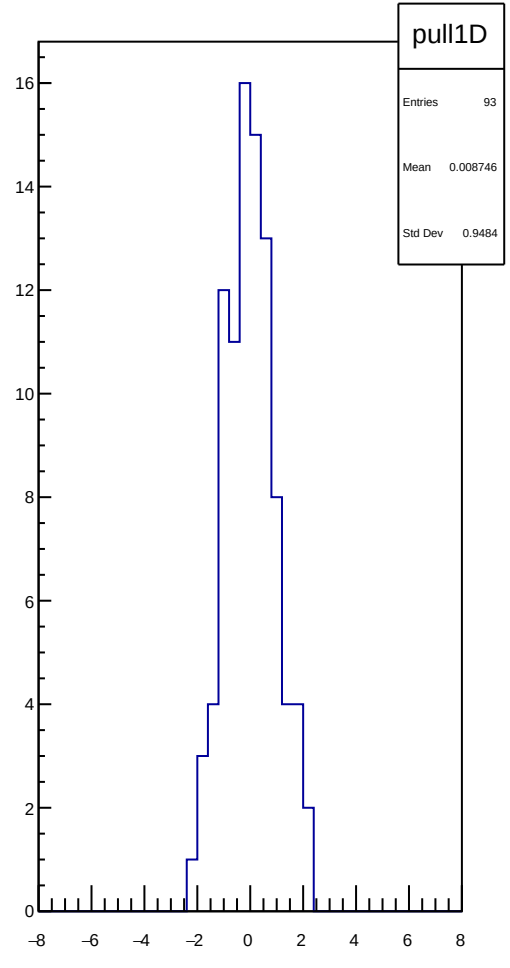

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.51 / 92
p0 0.05277 ± 0.02349
pull
Entries 93
Mean 61.35
Std Dev 16.93
pull1D
Entries 93
Mean −0.07548
Std Dev 0.9891

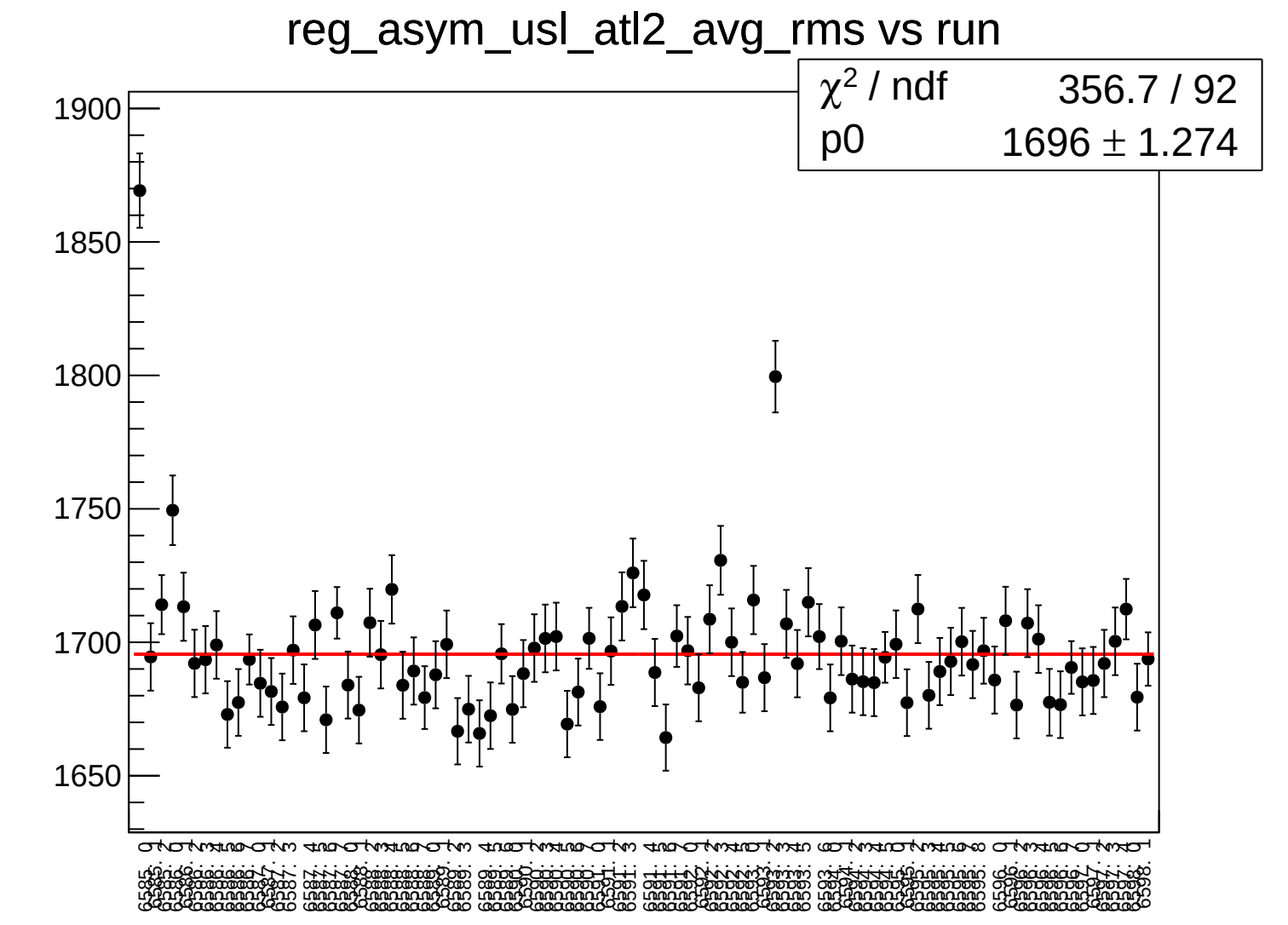

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.089e+05 / 92
p0 19.38 ± 0.01661
70
60
50
40
30
20
10

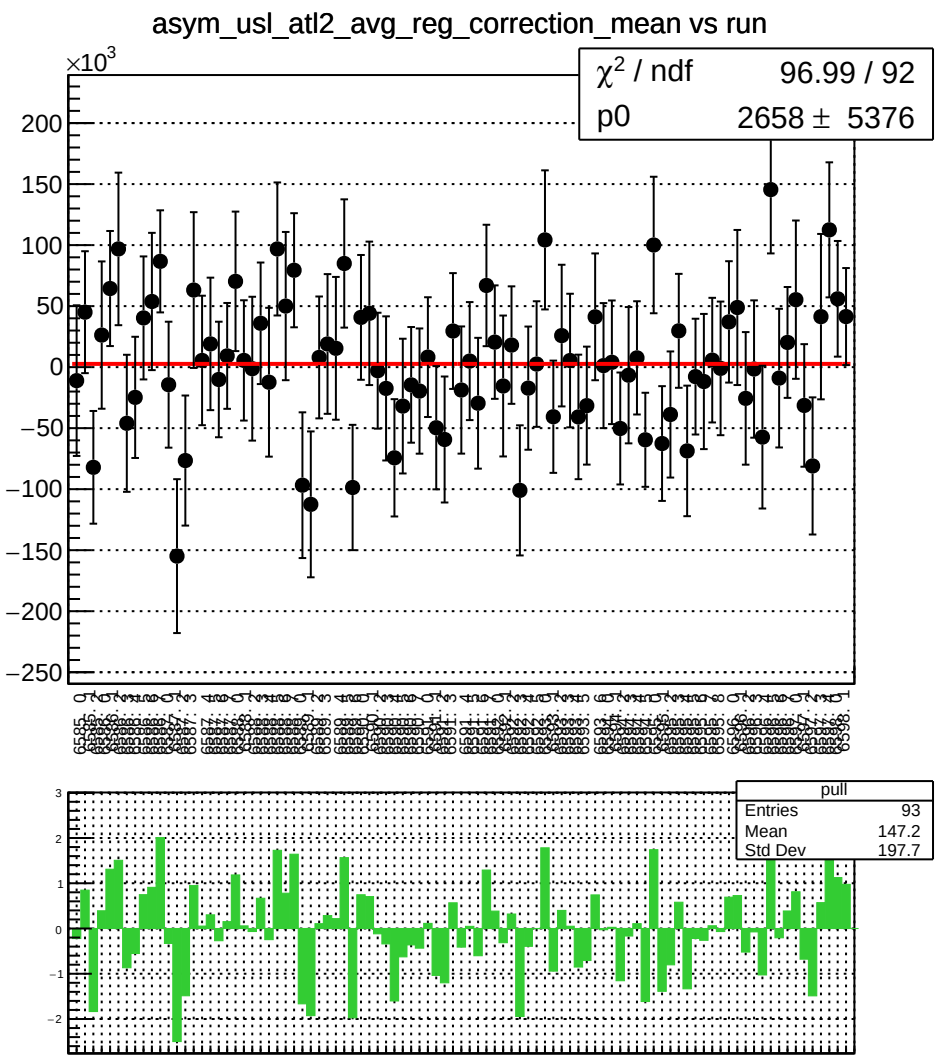

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.88 / 92
p0 −8.703e−15 ± 7.779e−15
pull
Entries 93
Mean −5.356
Std Dev 0
pull1D
Entries 93
Mean −0.01261
Std Dev 0.9552

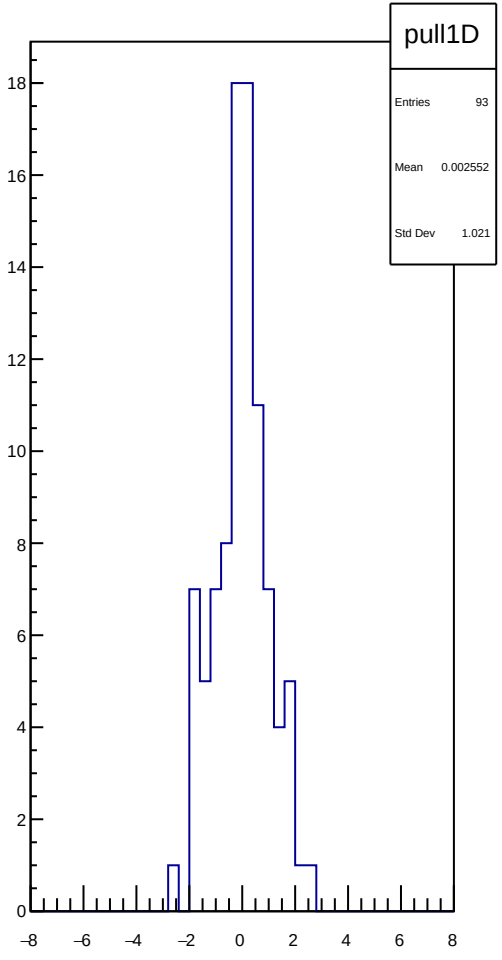

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.116e+05 / 92
p0 6.172e−12 ± 5.501e−15
45
40
35
30
25
20
15
10
5

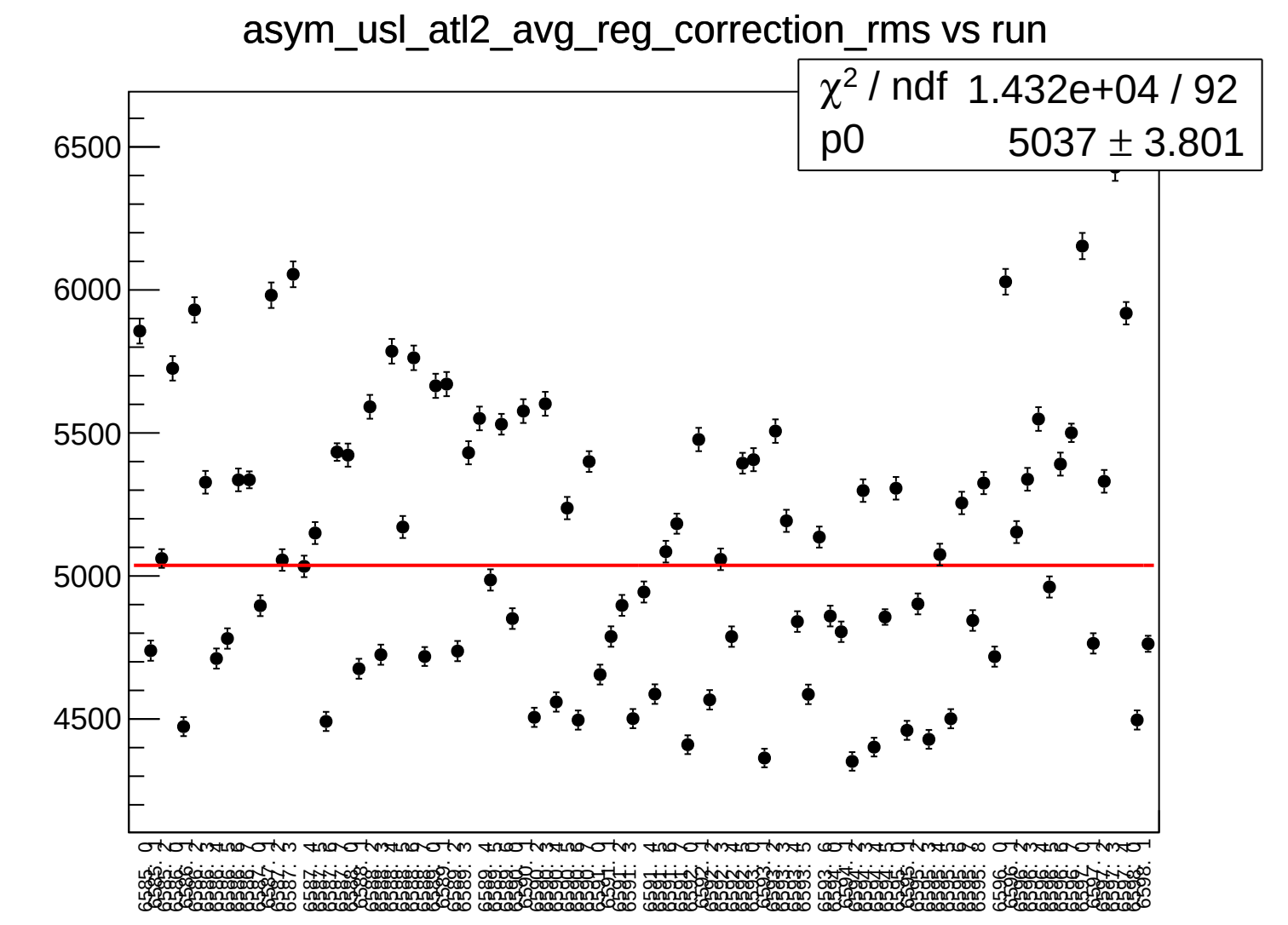

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 83.65 / 92
p0 −1719 ± 1802
pull
Entries 93
Mean 589
Std Dev 0

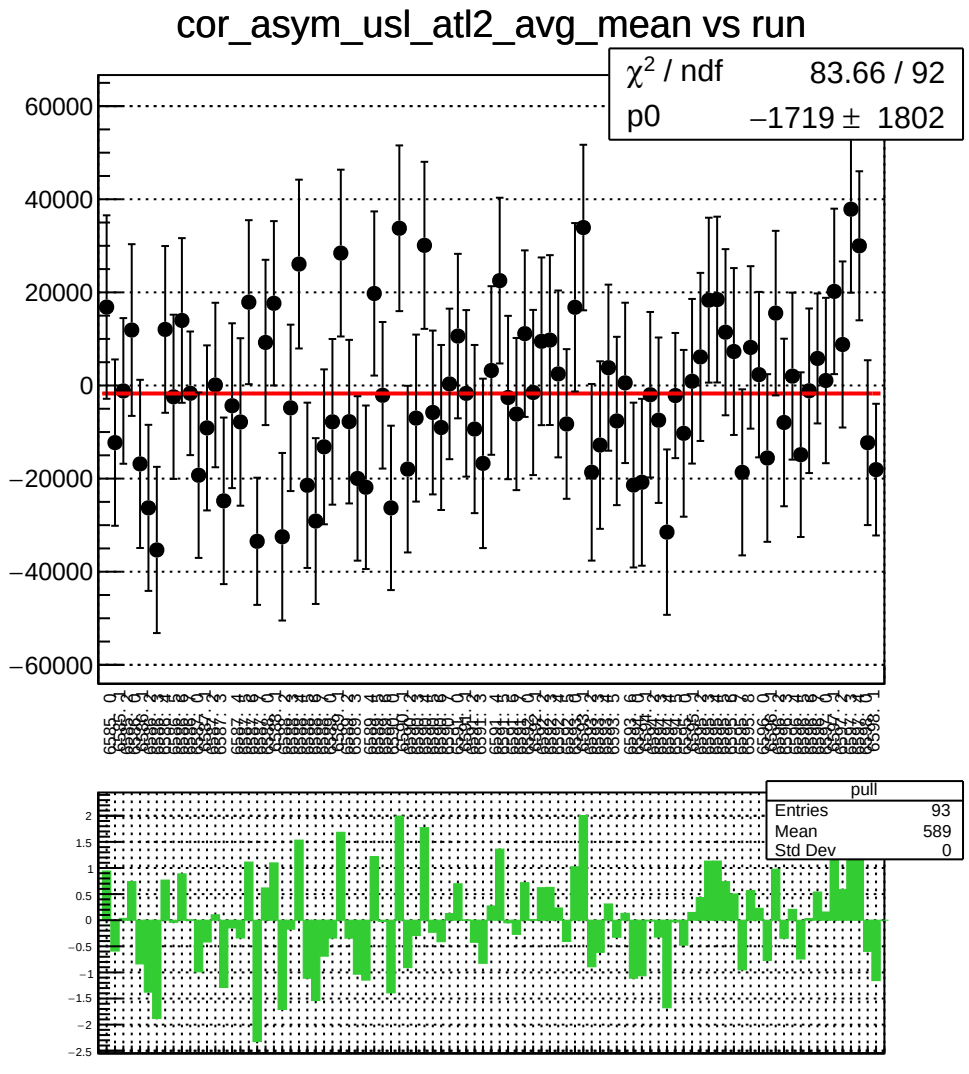

pull1D
Entries 93
Mean 0.008746
Std Dev 0.9484

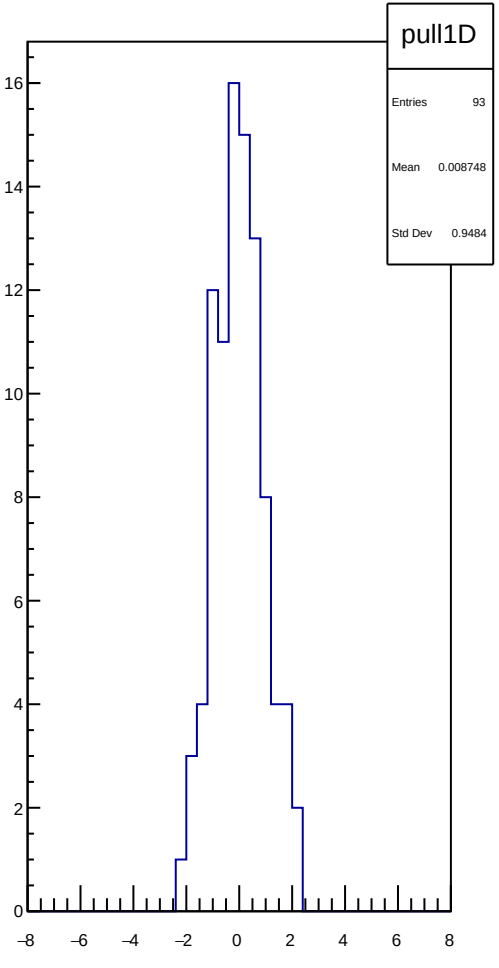

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 356.7 / 92
p0 1696 ± 1.274
1900
1850
1800
1750
1700
1650

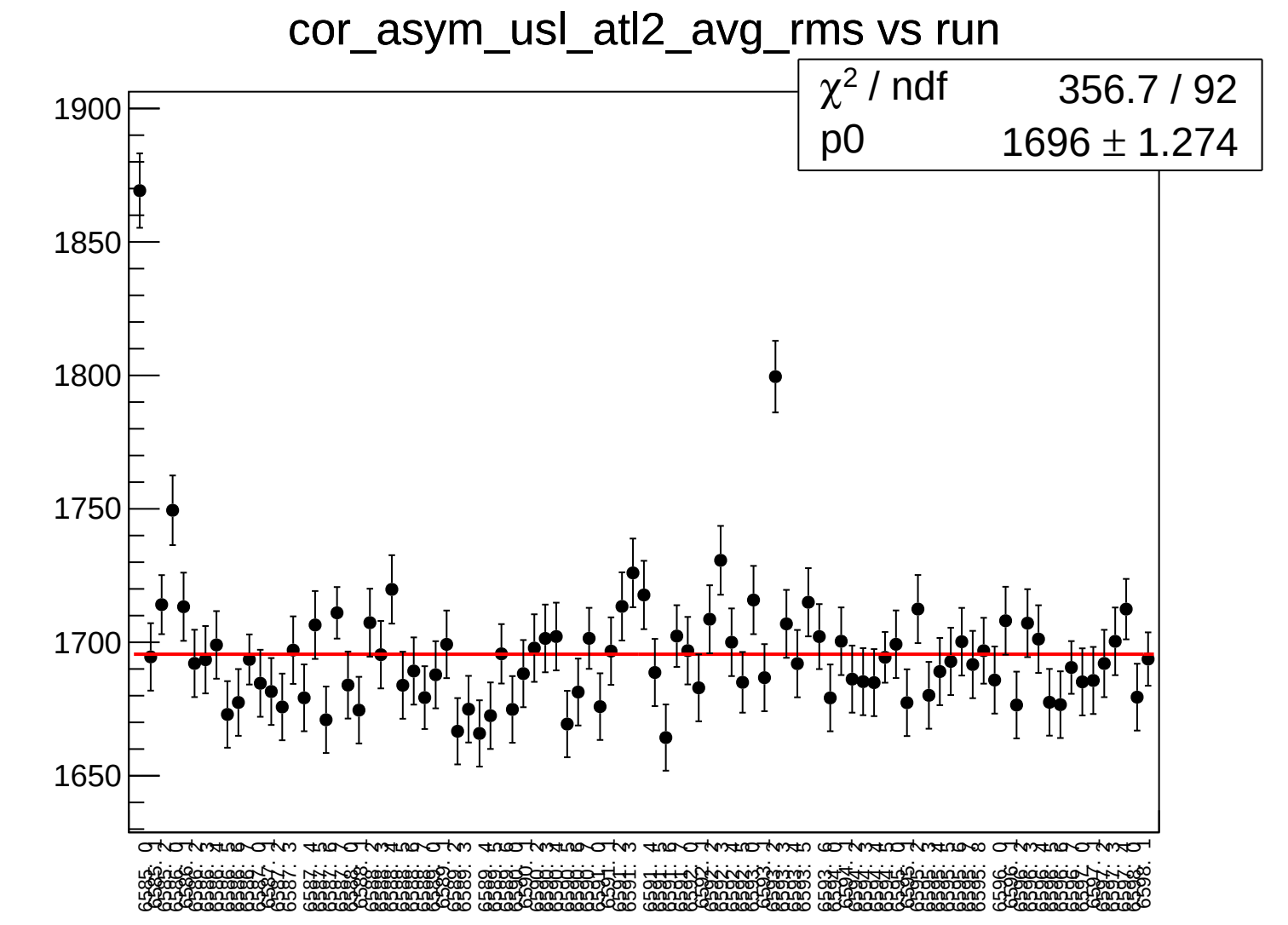

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 96.99 / 92
p0 2658 ± 5376
×10³
pull
Entries 93
Mean 147.2
Std Dev 197.7

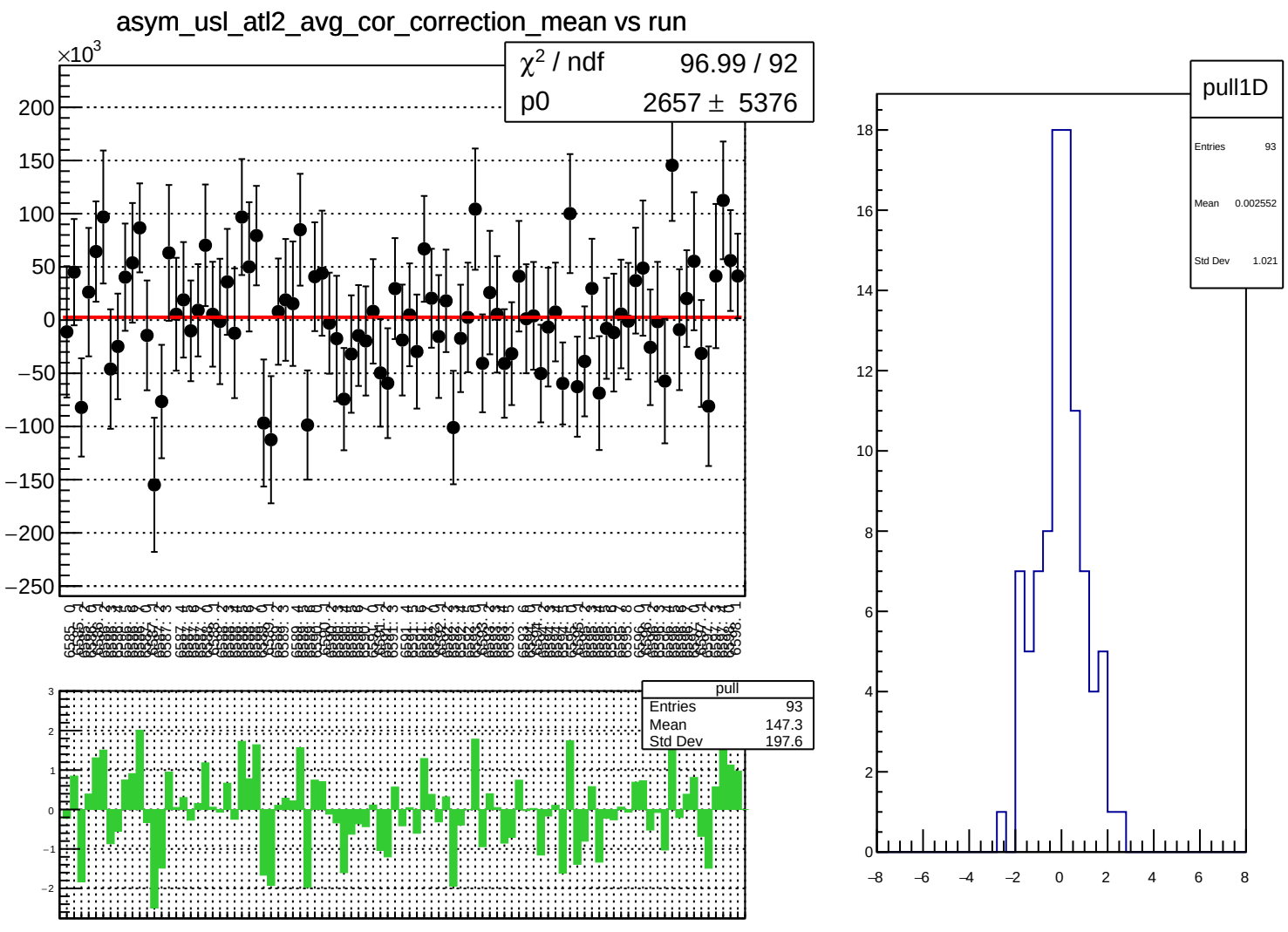

pull1D
Entries 93
Mean 0.002552
Std Dev 1.021

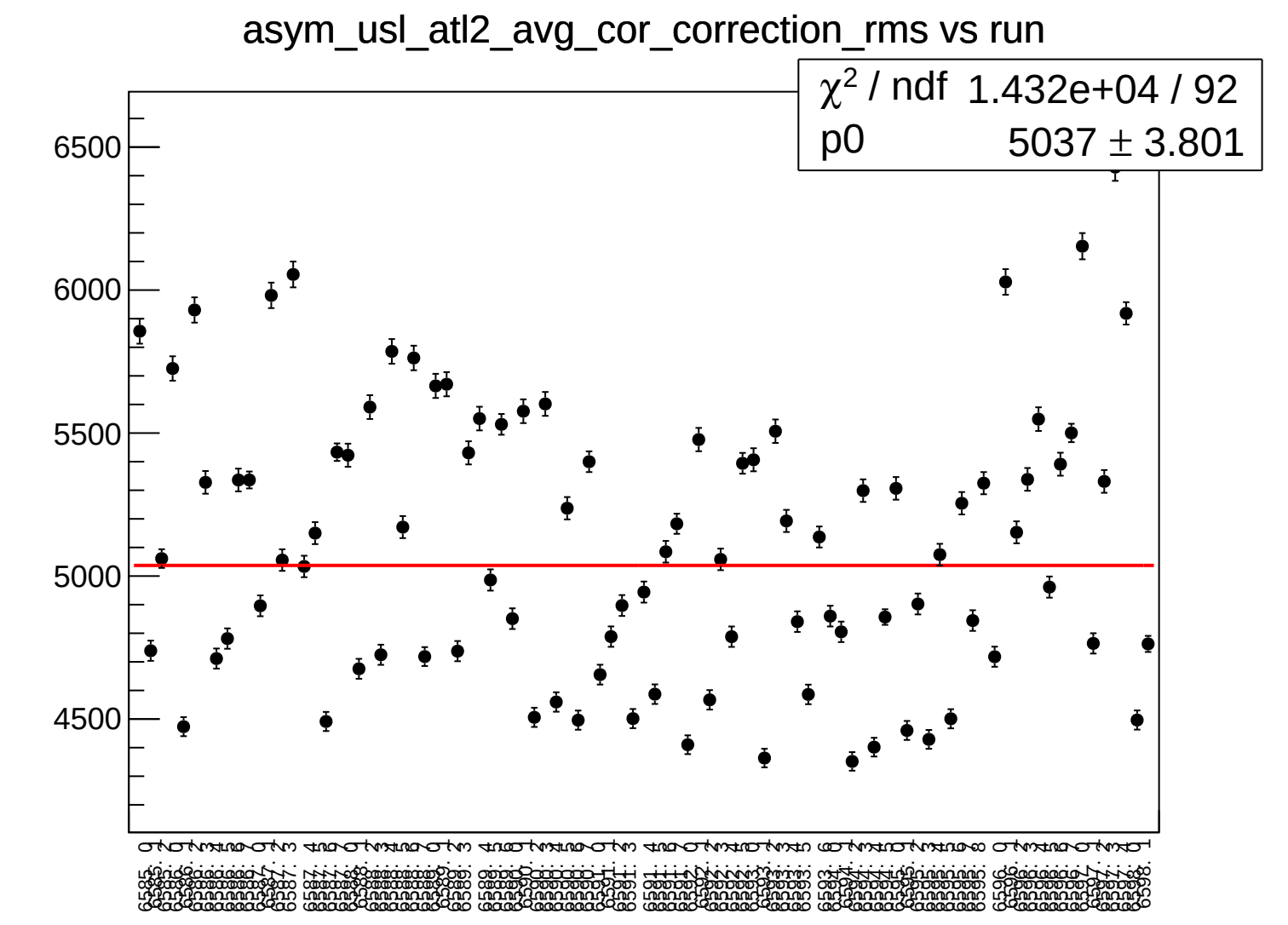

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.432e+04 / 92
p0 5037 ± 3.801
6500
6000
5500
5000
4500

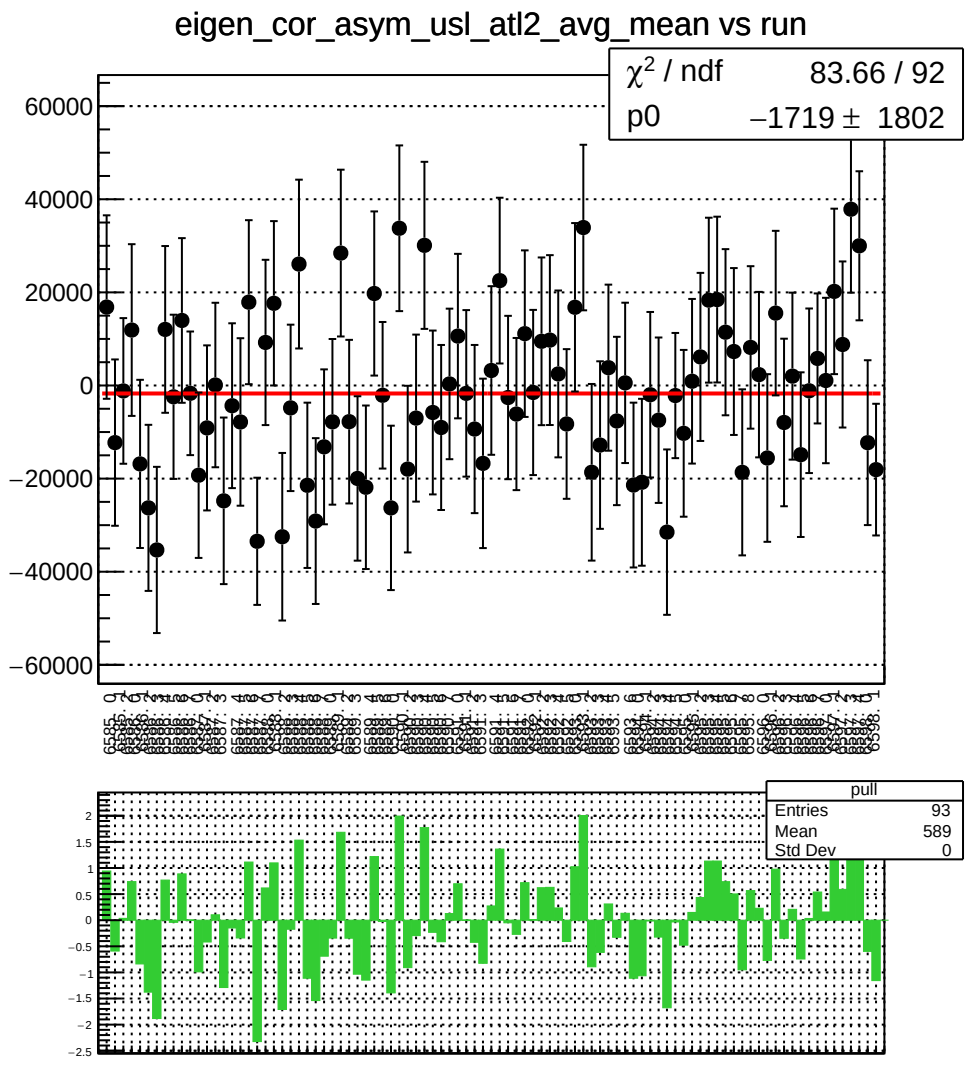

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 83.66 / 92
p0 −1719 ± 1802
pull
Entries 93
Mean 589
Std Dev 0

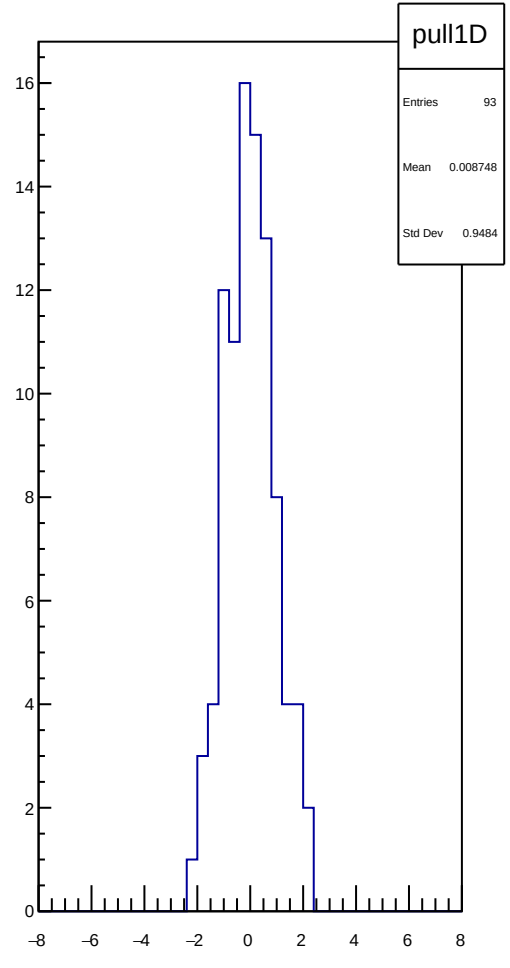

pull1D
Entries 93
Mean 0.008748
Std Dev 0.9484

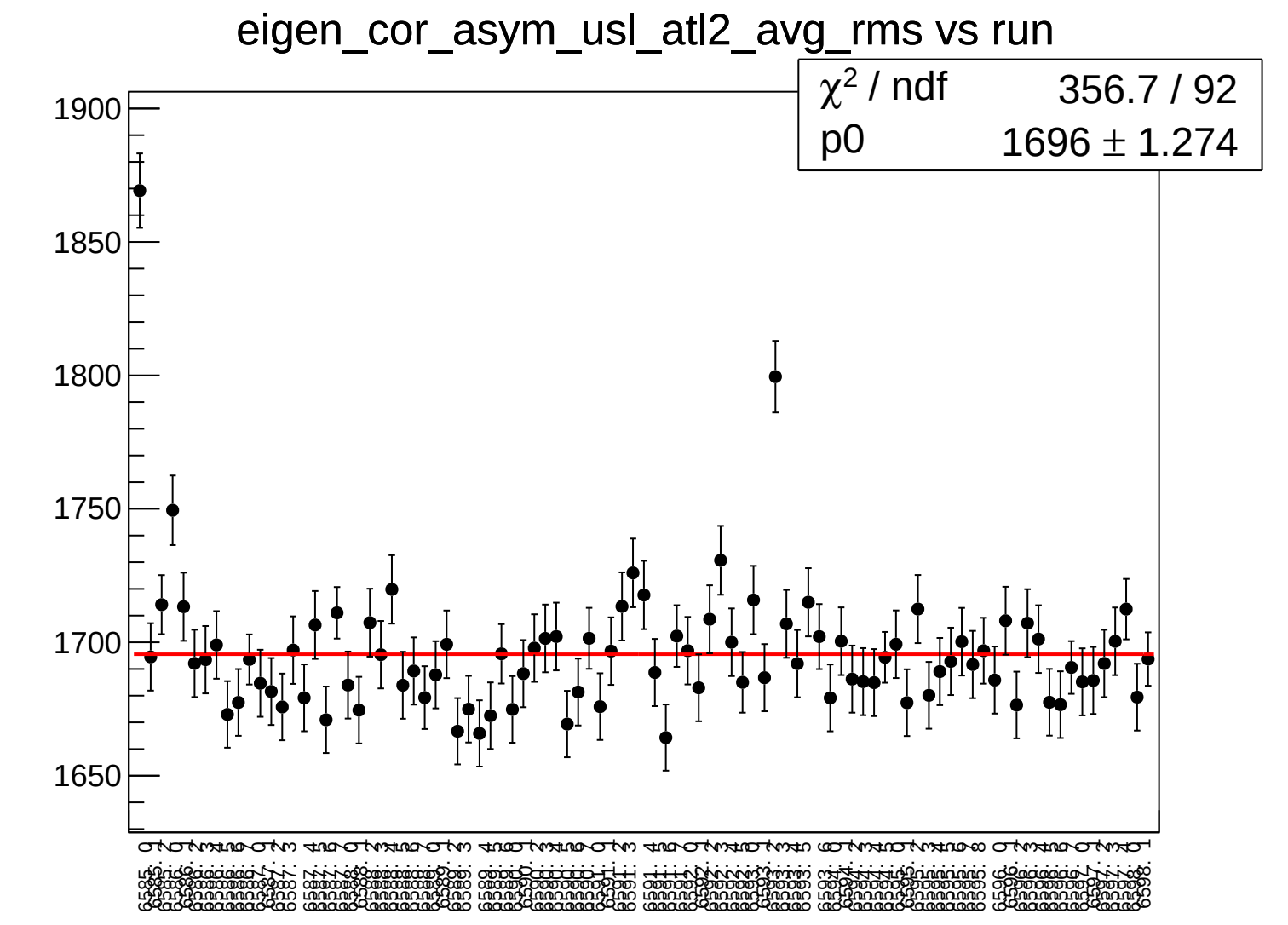

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 356.7 / 92
p0 1696 ± 1.274
1900
1850
1800
1750
1700
1650

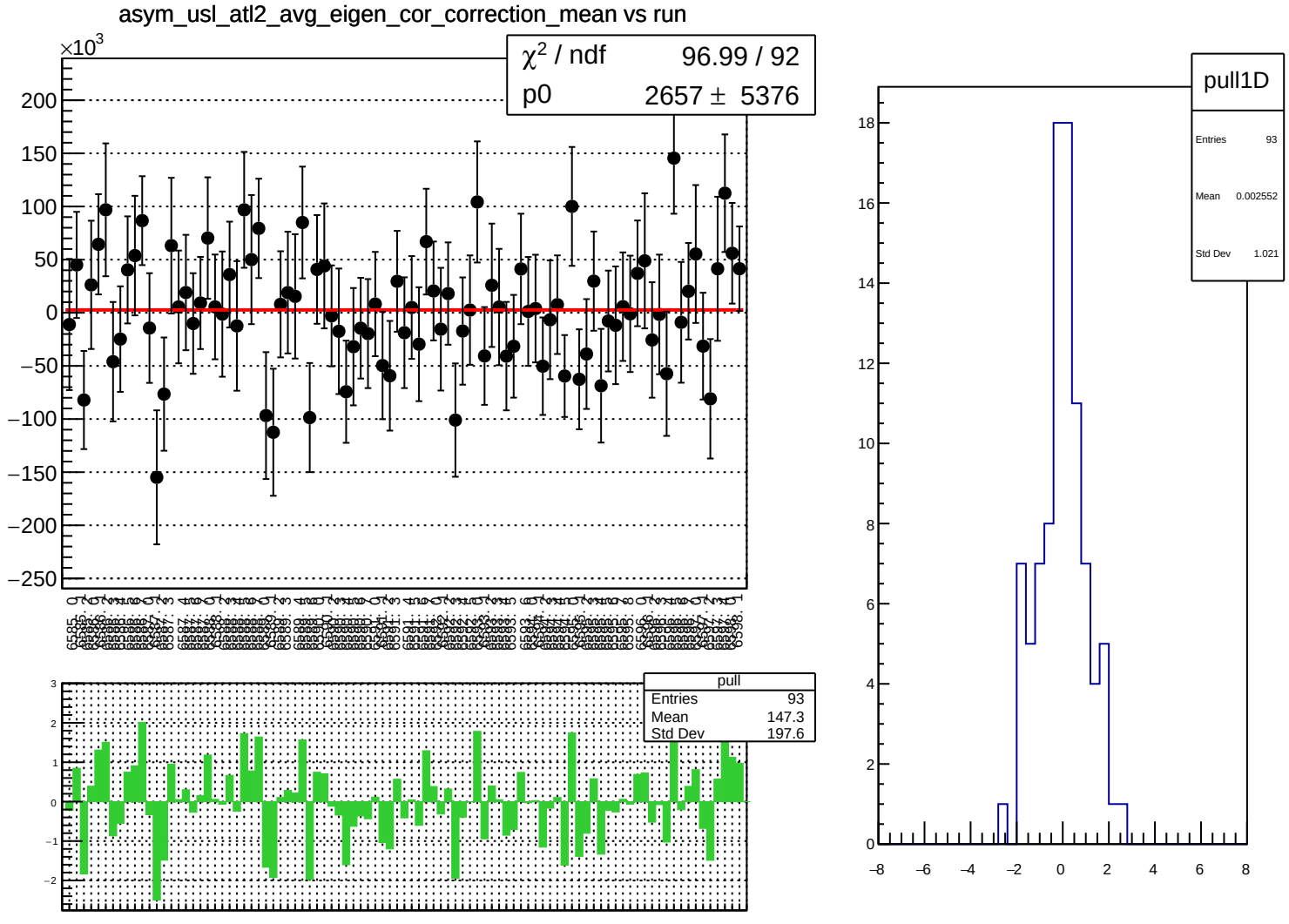

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 96.99 / 92
p0 2657 ± 5376
pull
Entries 93
Mean 147.3
Std Dev 197.6
pull1D
Entries 93
Mean 0.002552
Std Dev 1.021

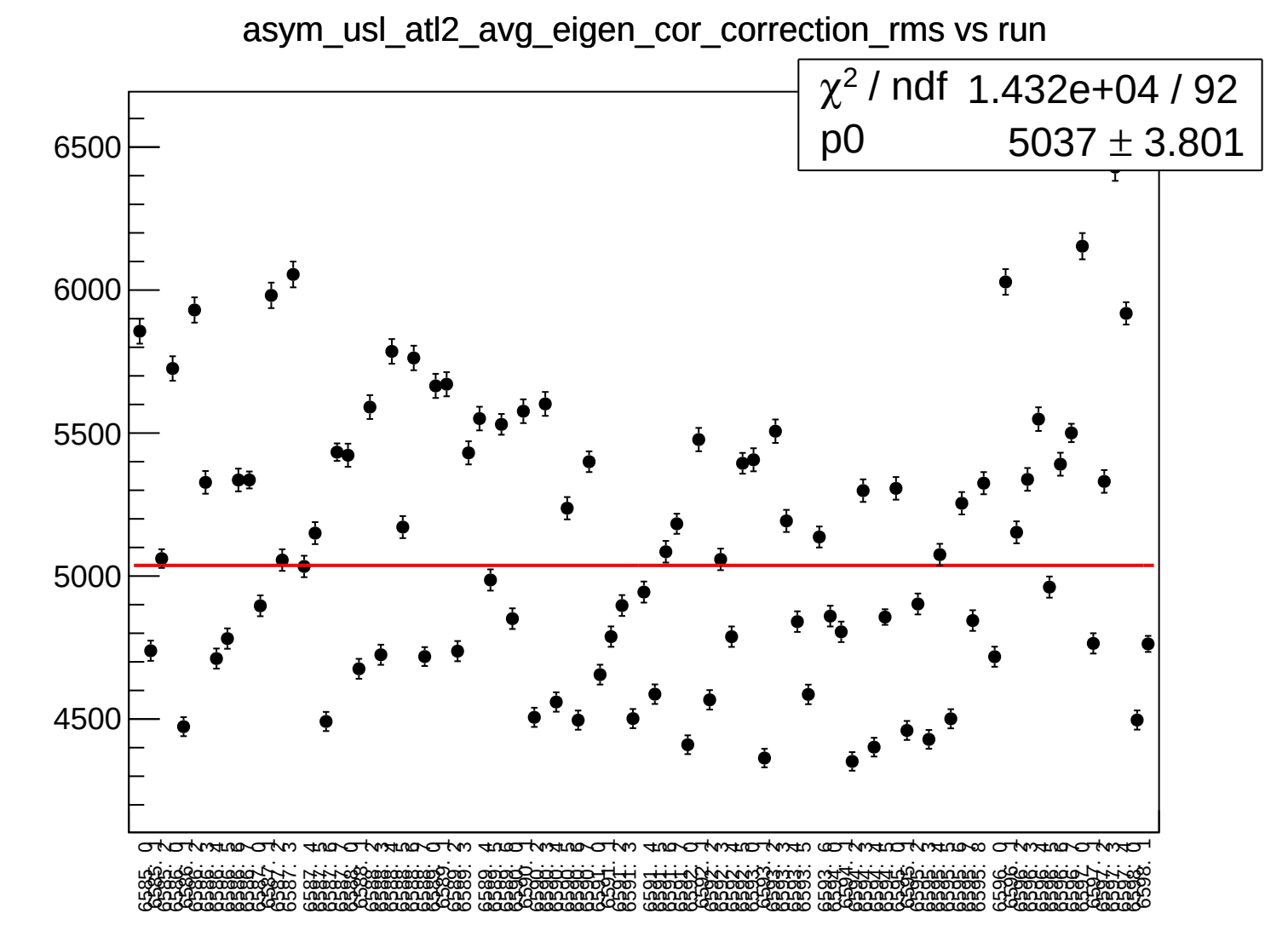

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.432e+04 / 92
p0 5037 ± 3.801
6500
6000
5500
5000
4500

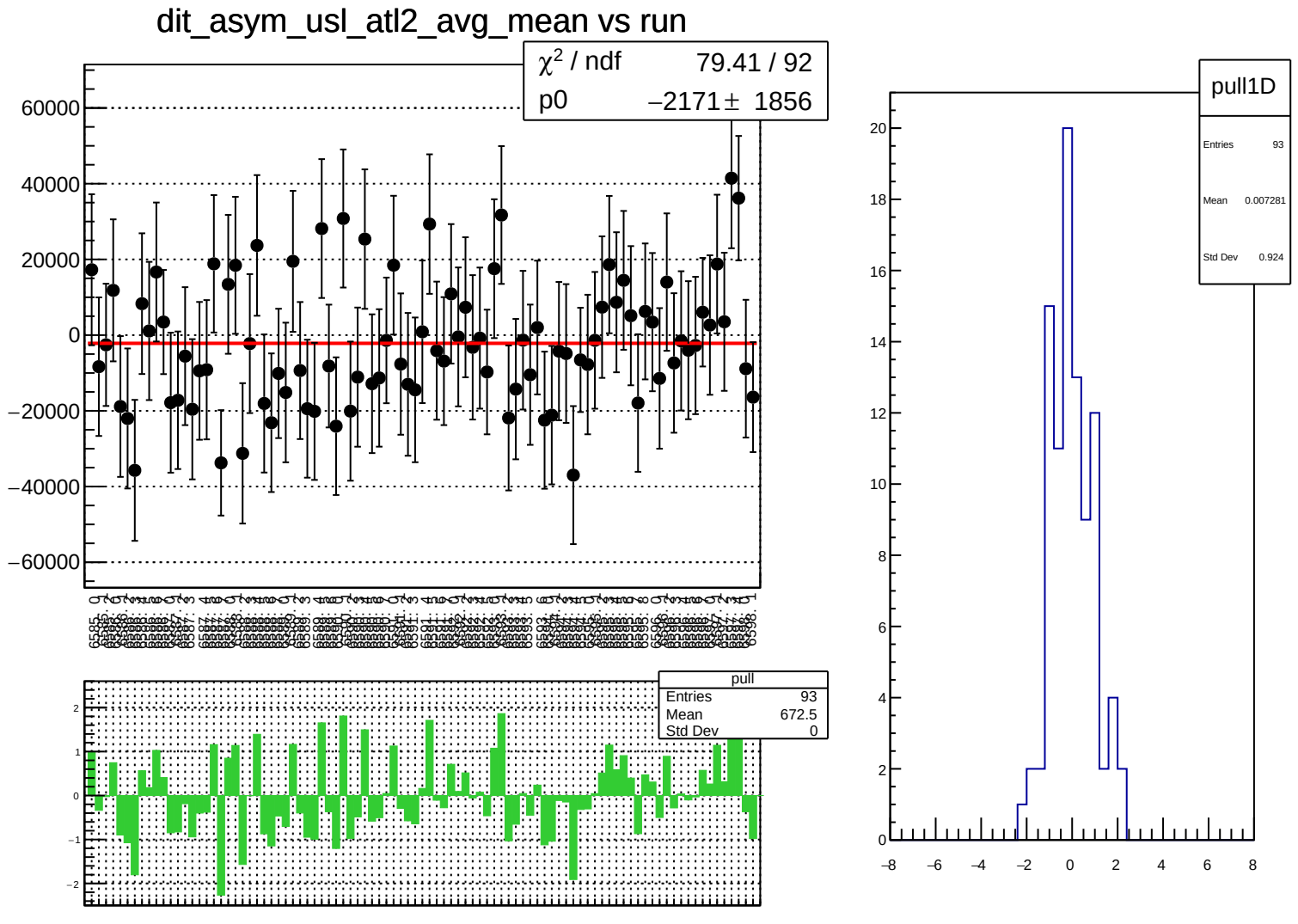

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 83.66 / 92
p0 −1719 ± 1802
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 589
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

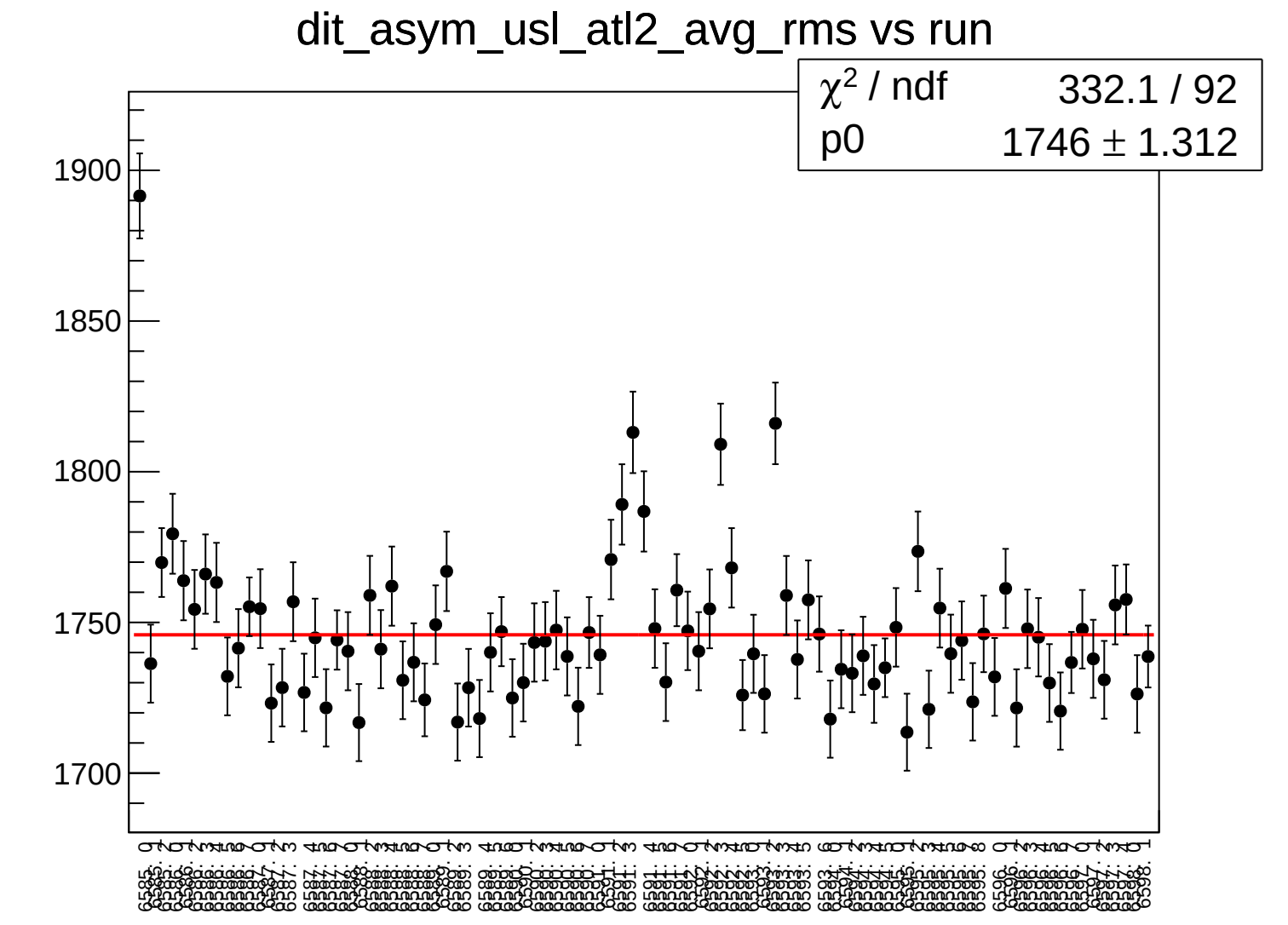

pull1D
Entries 93
Mean 0.008748
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

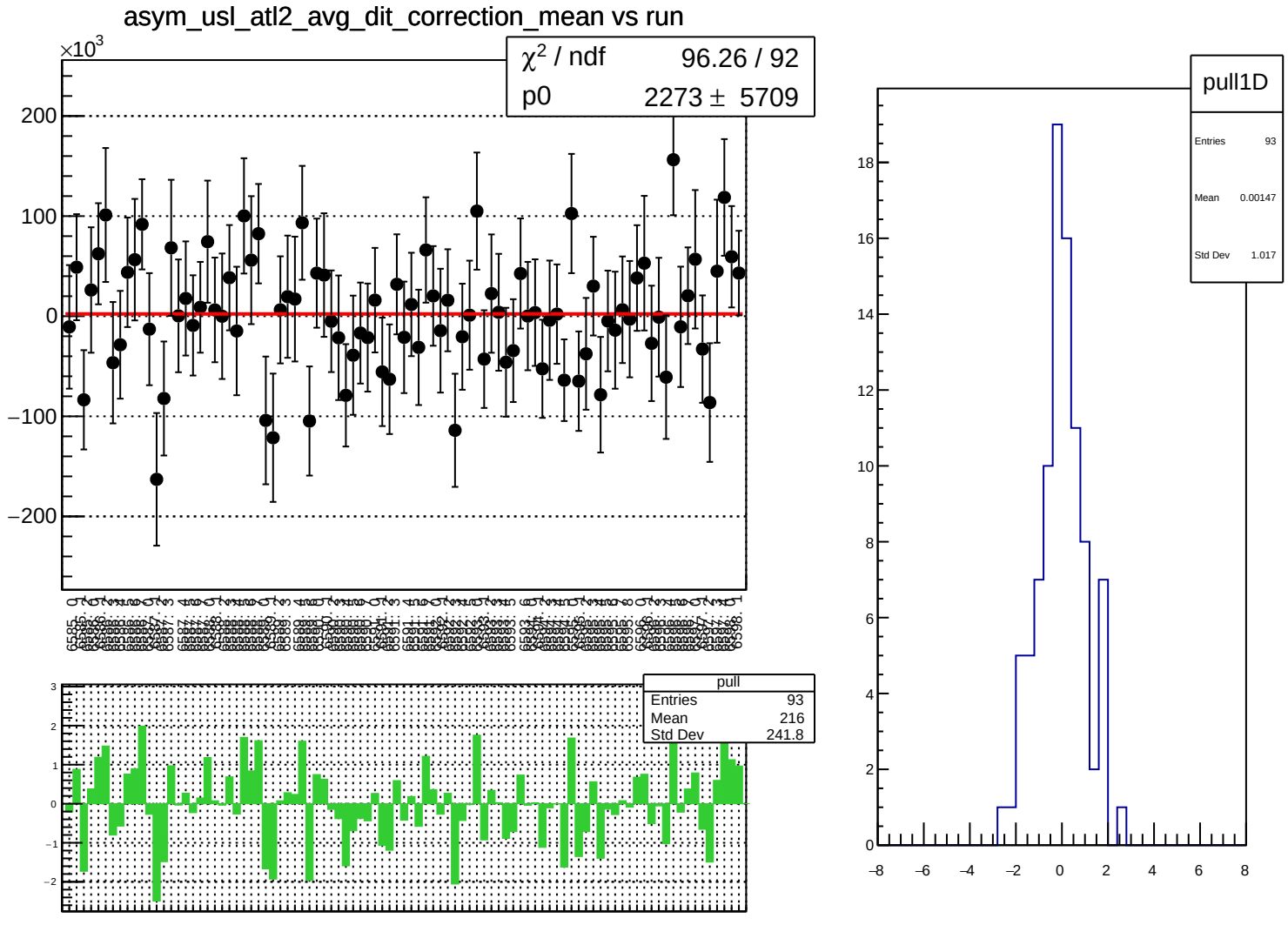

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 356.7 / 92
p0 1696 ± 1.274
1900
1850
1800
1750
1700
1650

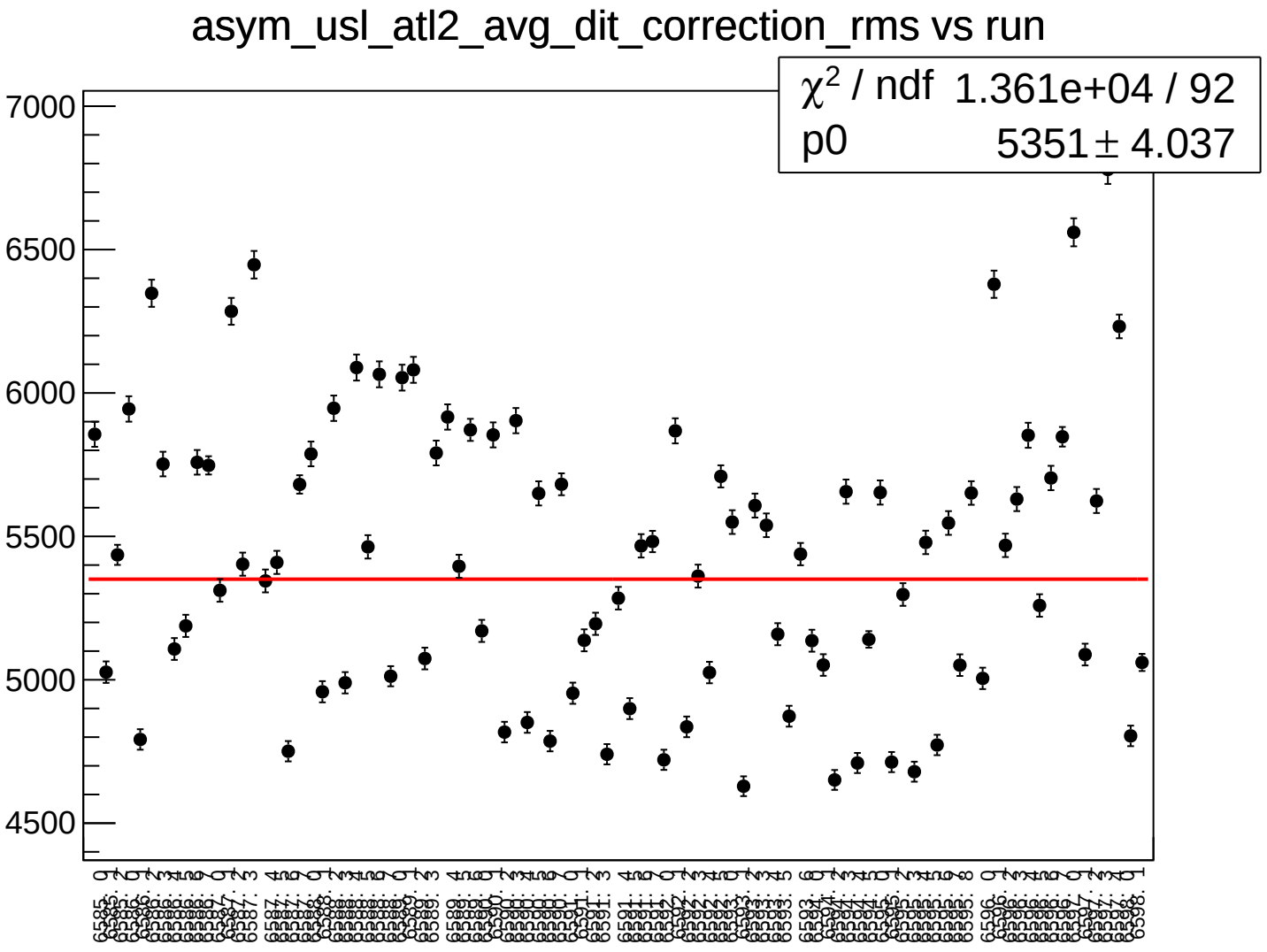

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 96.99 / 92
p0 2657 ± 5376
pull
Entries 93
Mean 147.3
Std Dev 197.6
pull1D
Entries 93
Mean 0.002552
Std Dev 1.021

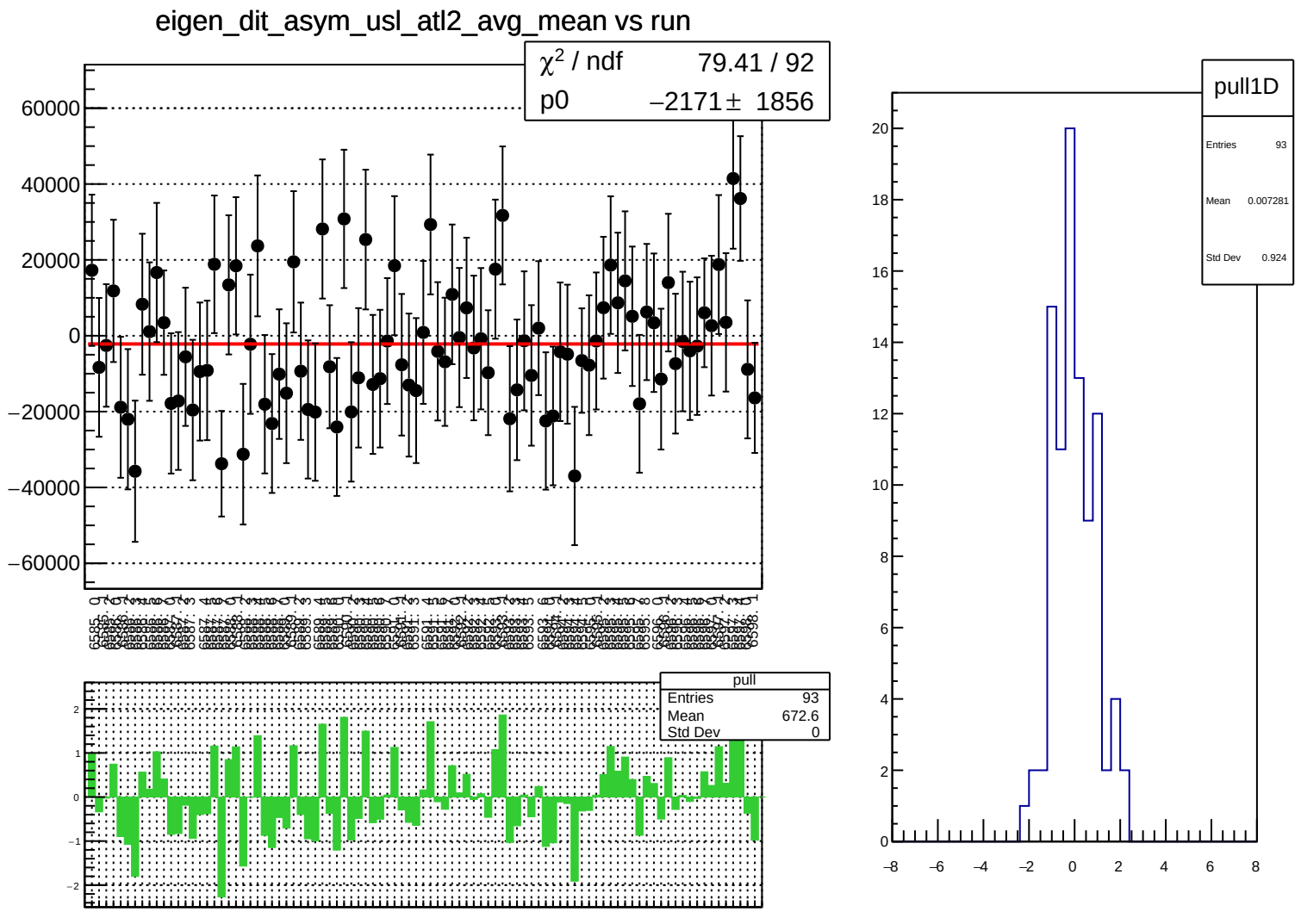

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.432e+04 / 92
p0 5037 ± 3.801
6500
6000
5500
5000
4500

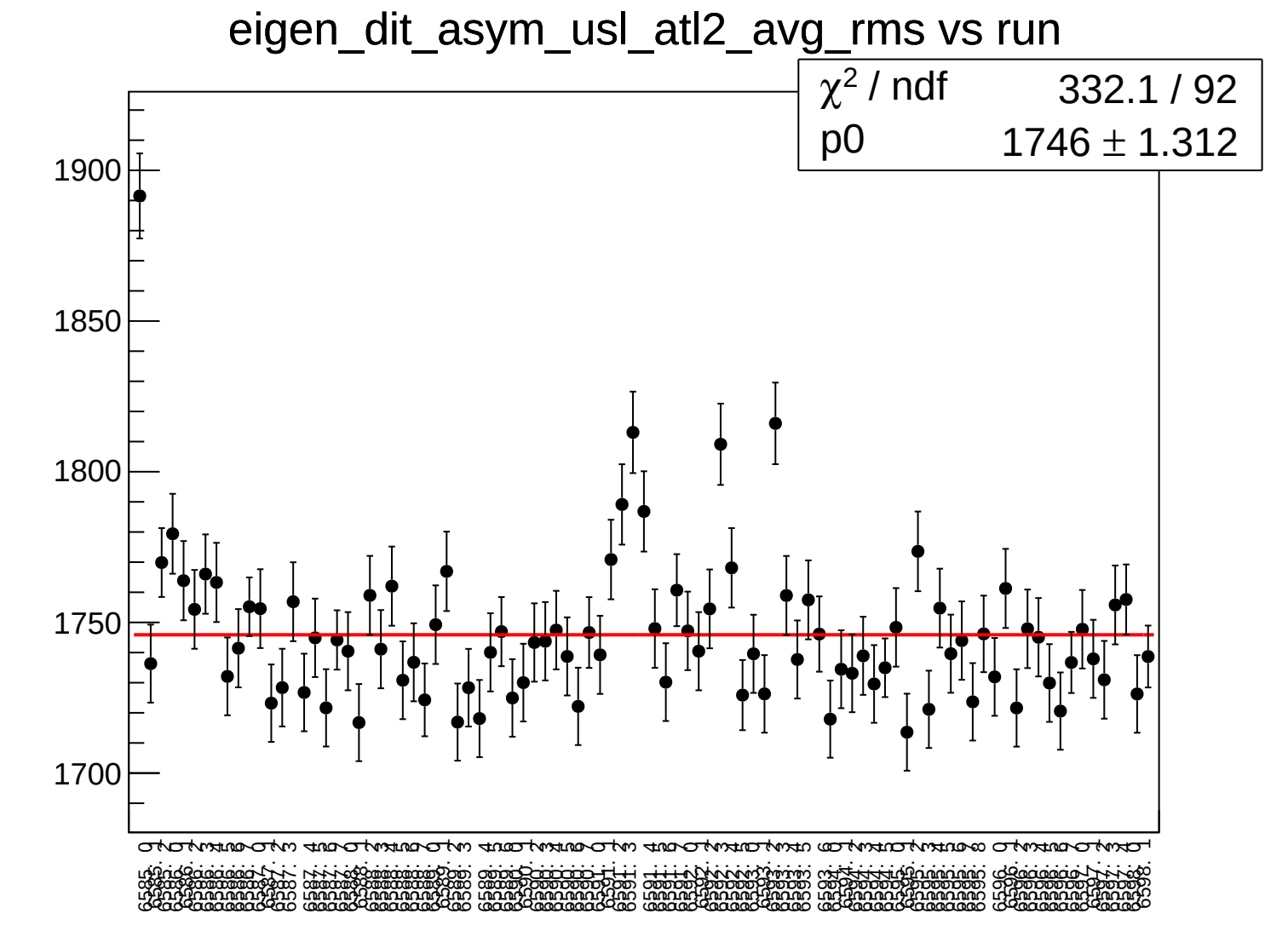

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 79.41 / 92
p0 −2171 ± 1856
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 672.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.007281
Std Dev 0.924
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

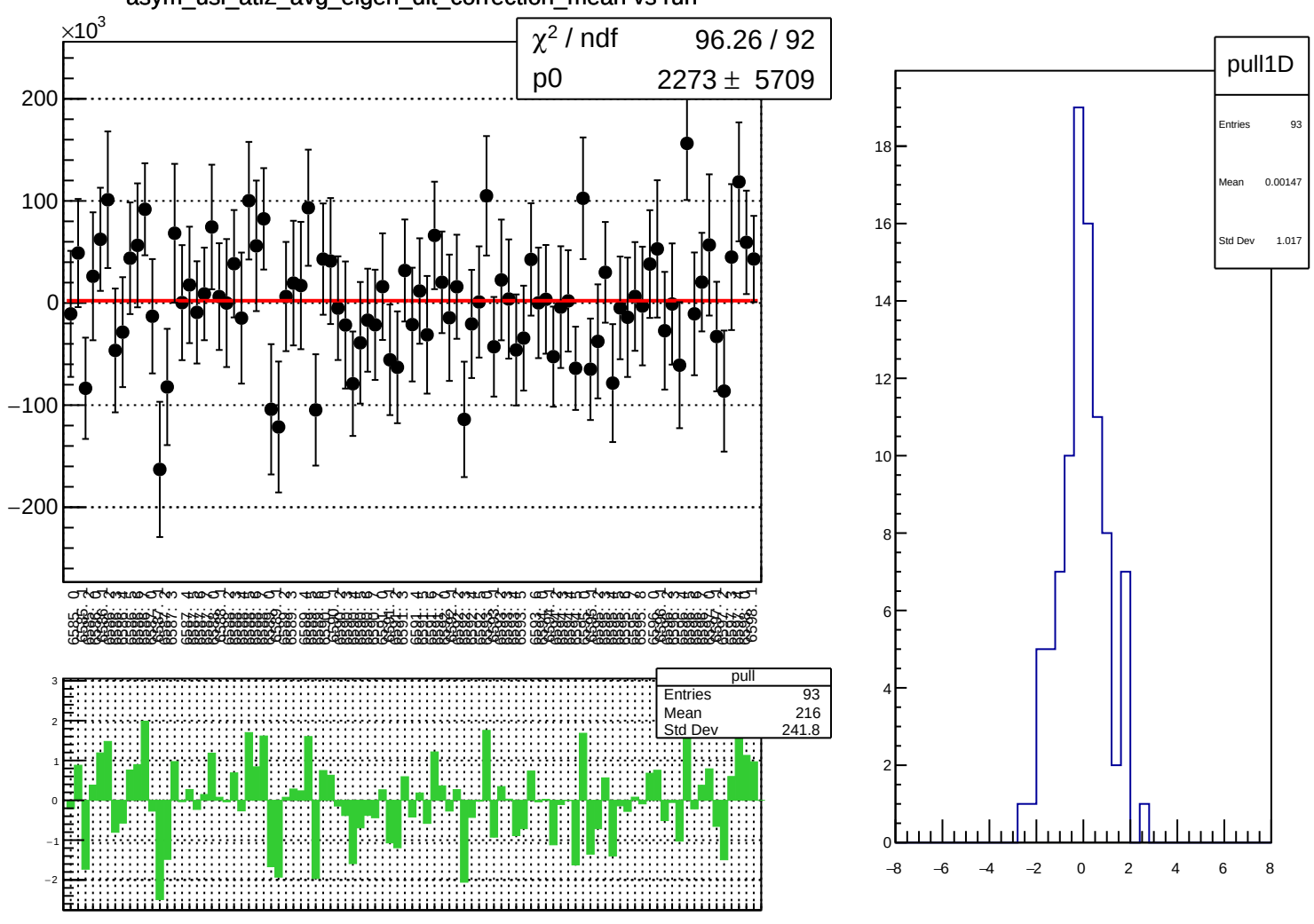

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 332.1 / 92
p0 1746 ± 1.312
1900
1850
1800
1750
1700

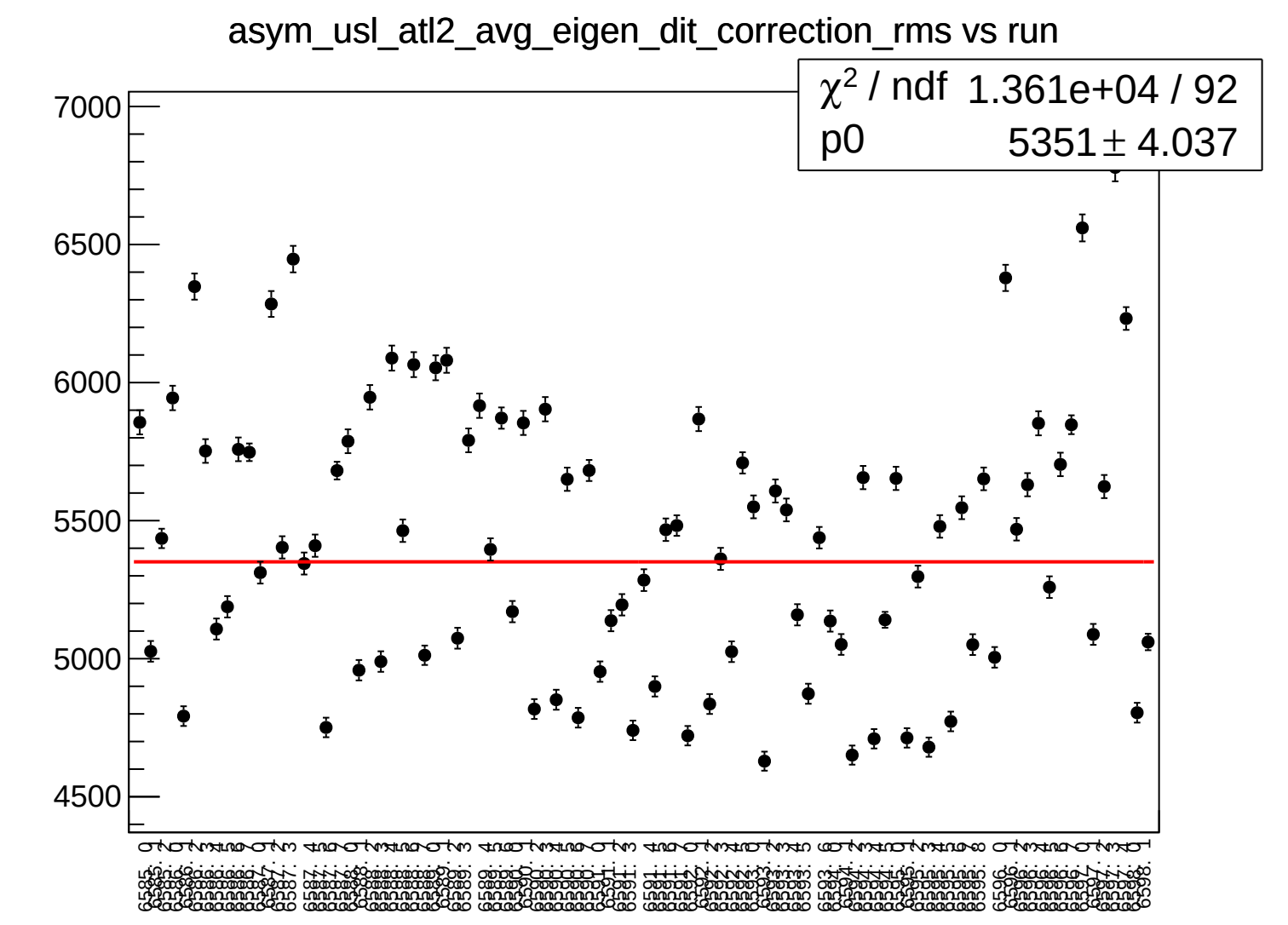

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 96.26 / 92
p0 2273 ± 5709
200
100
0
−100
−200
pull
Entries 93
Mean 216
Std Dev 241.8
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00147
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

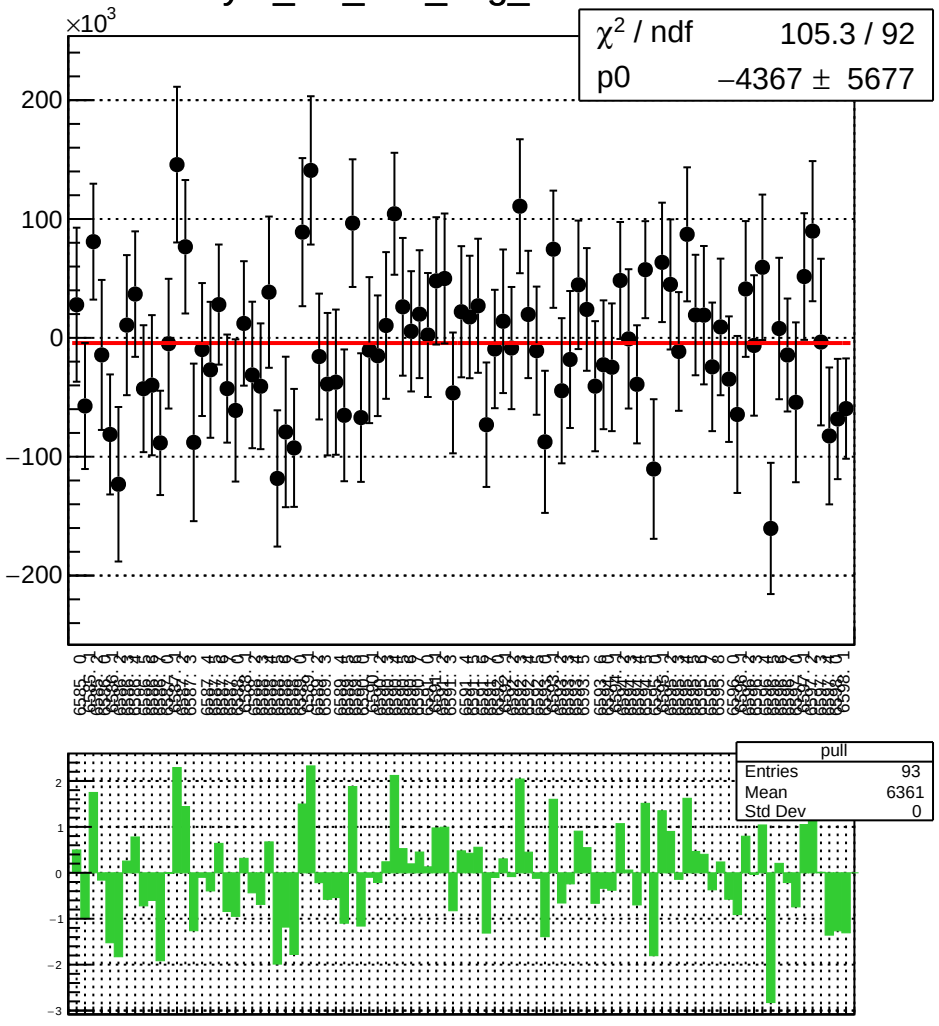

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.361e+04 / 92
p0 5351 ± 4.037
7000
6500
6000
5500
5000
4500

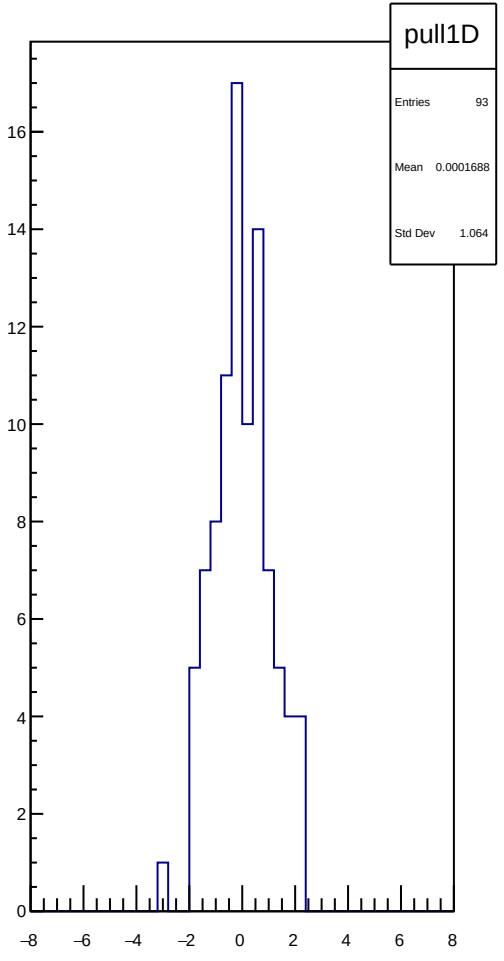

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 79.41 / 92
p0 −2171 ± 1856
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 672.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.007281
Std Dev 0.924
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

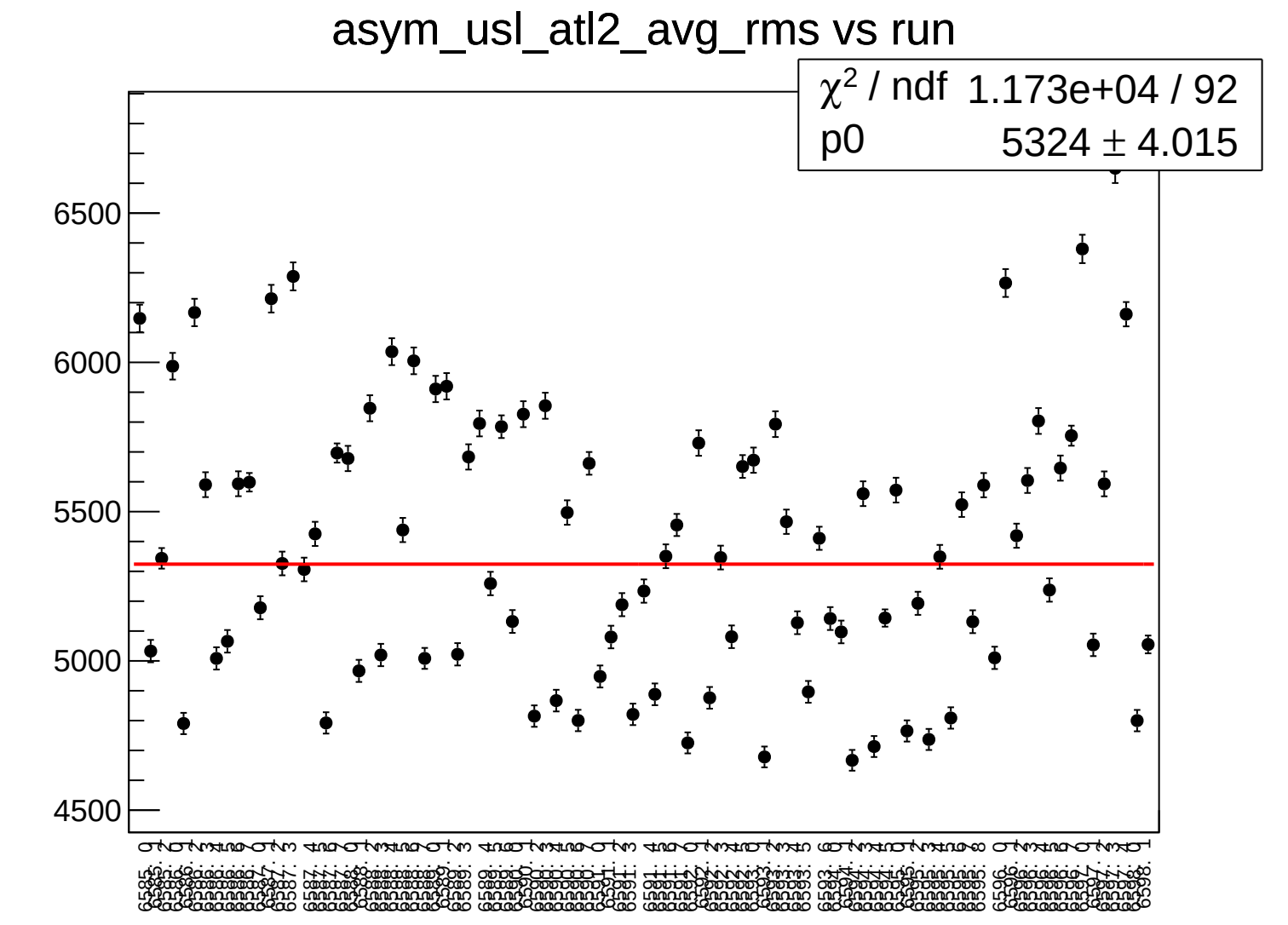

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 332.1 / 92
p0 1746 ± 1.312
1900
1850
1800
1750
1700

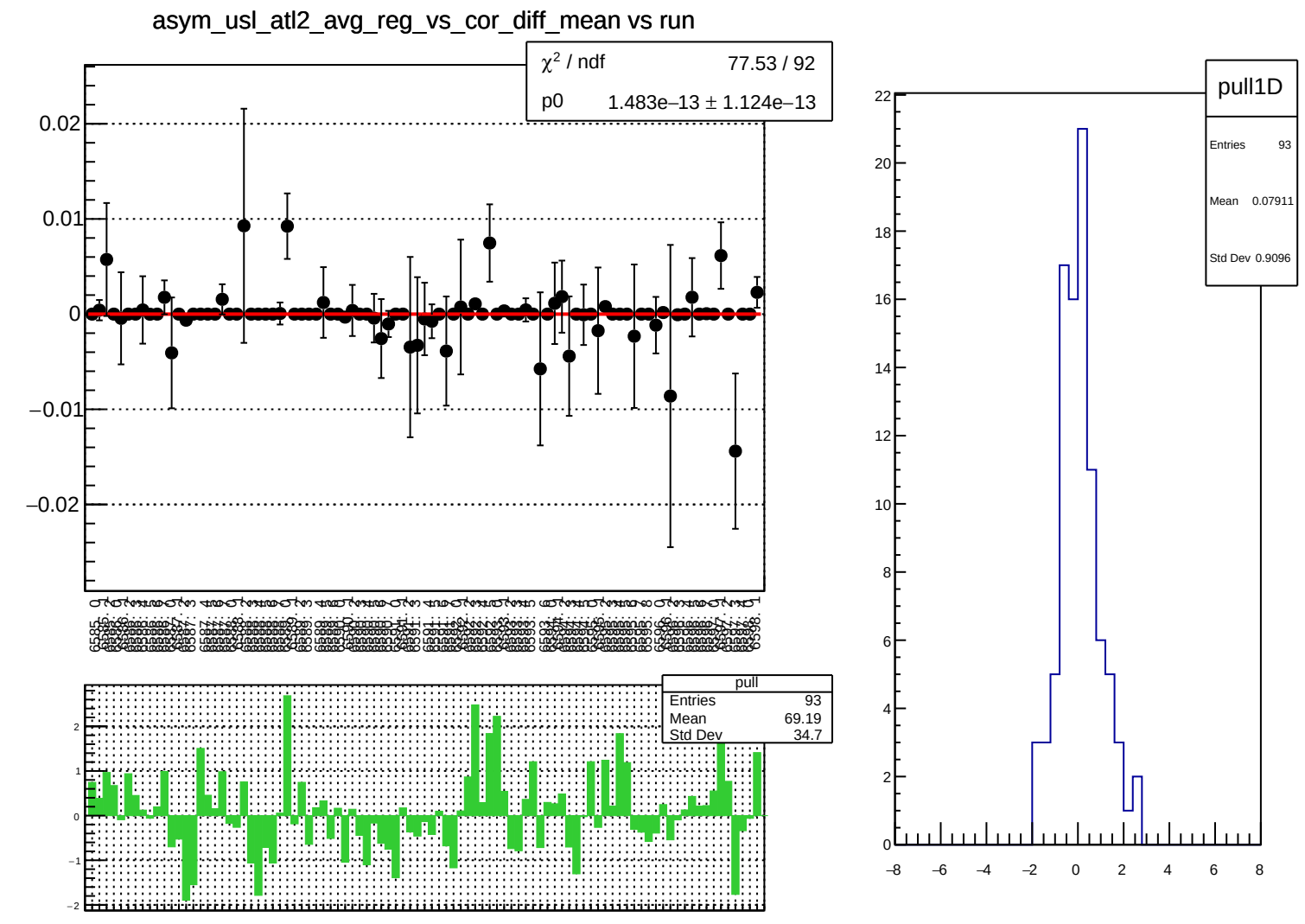

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.26 / 92
p0 2273 ± 5709
200
100
0
−100
−200
pull
Entries 93
Mean 216
Std Dev 241.8
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00147
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

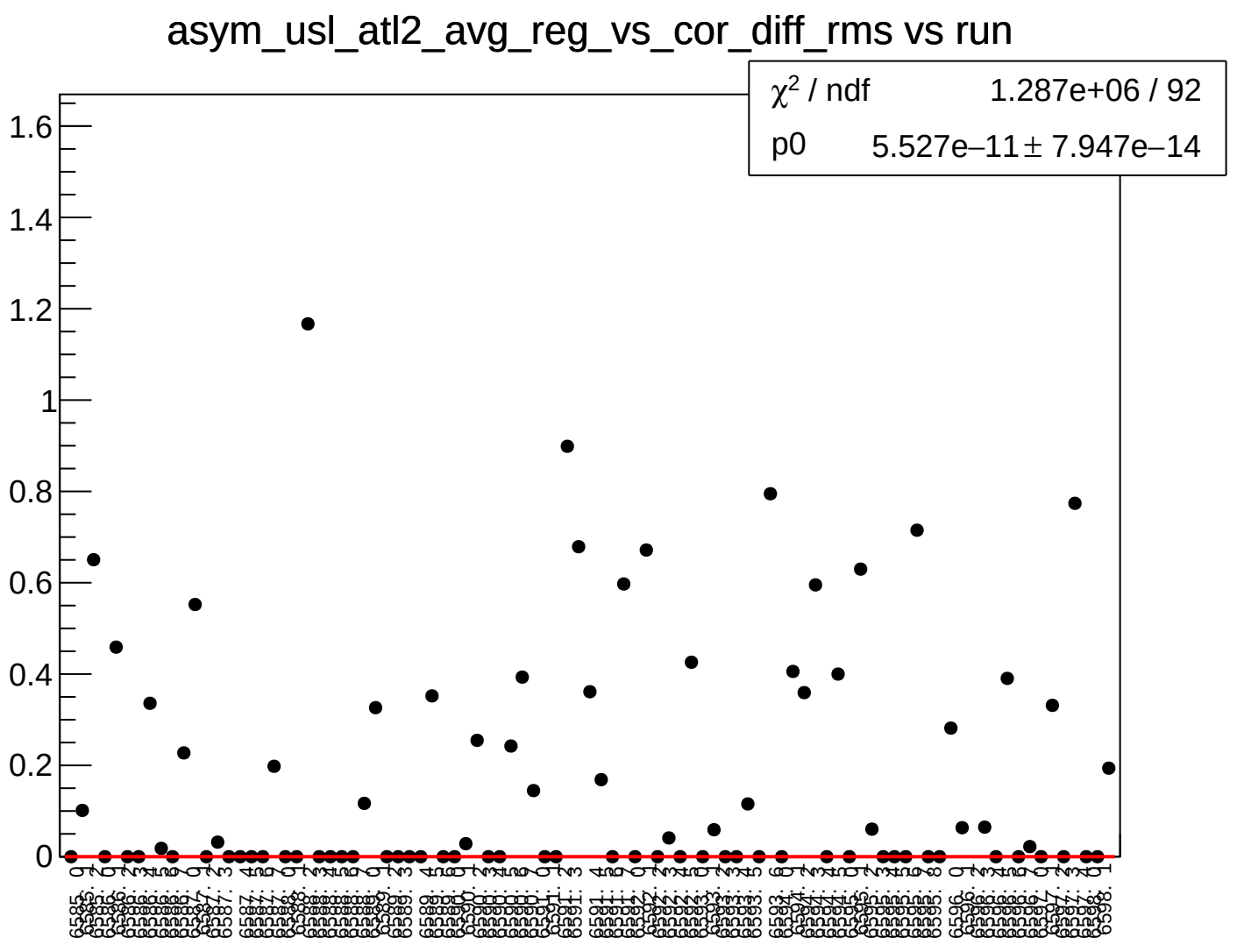

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.361e+04 / 92
p0 5351 ± 4.037
7000
6500
6000
5500
5000
4500

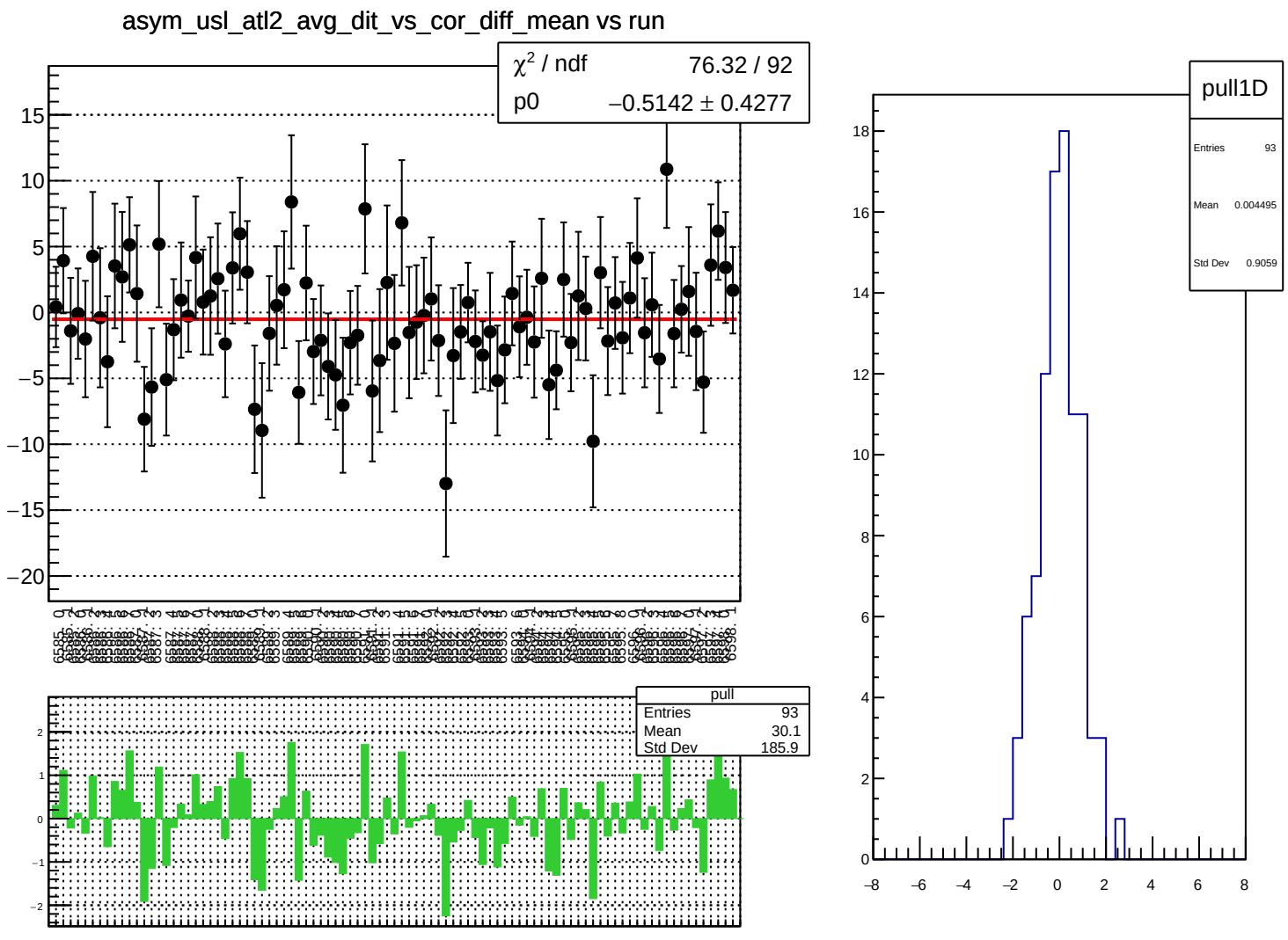

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 105.3 / 92
p0 −4367 ± 5677
200
100
0
−100
−200
pull
Entries 93
Mean 6361
Std Dev 0
2
1
0
−1
−2
−3

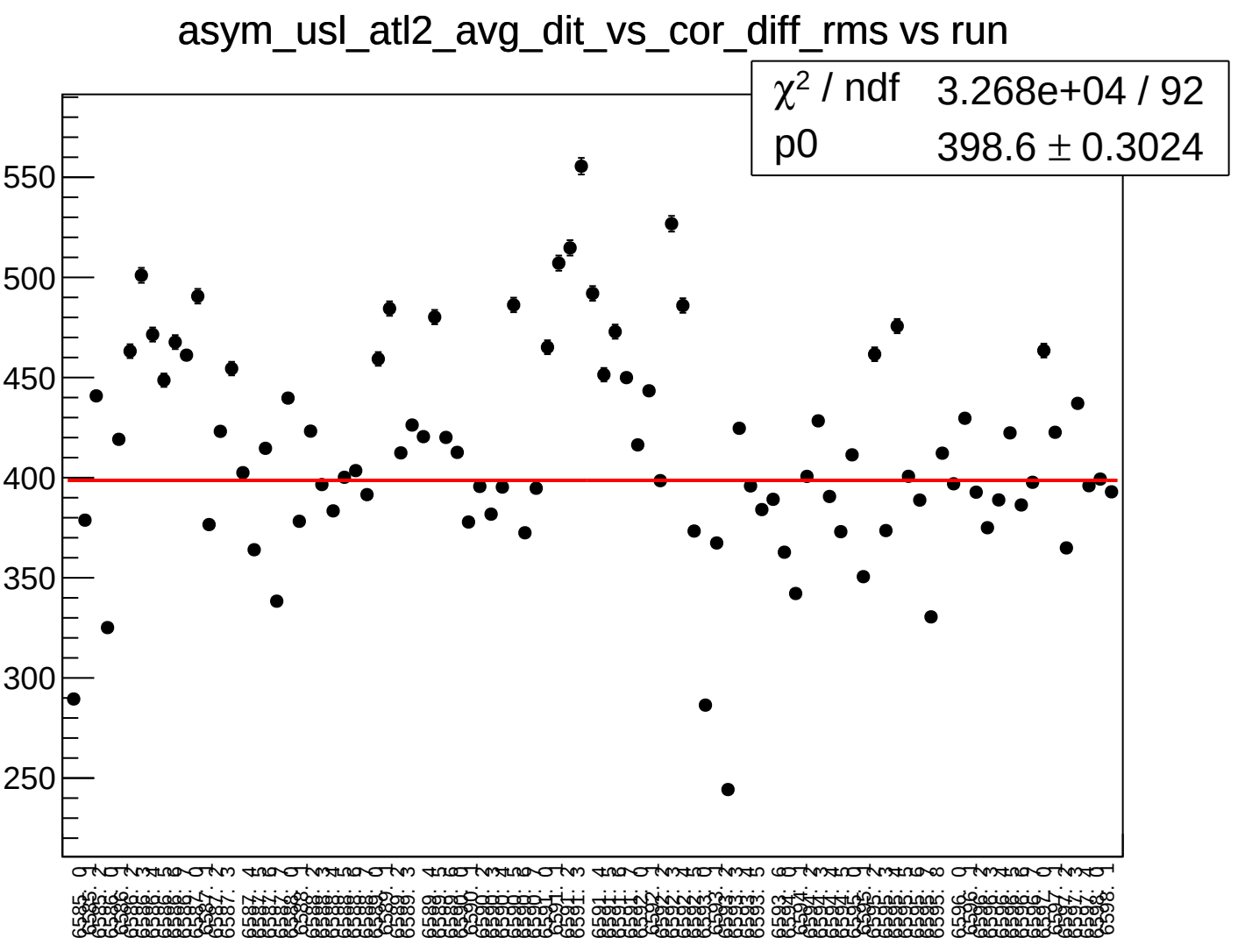

pull1D
Entries 93
Mean 0.0001688
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

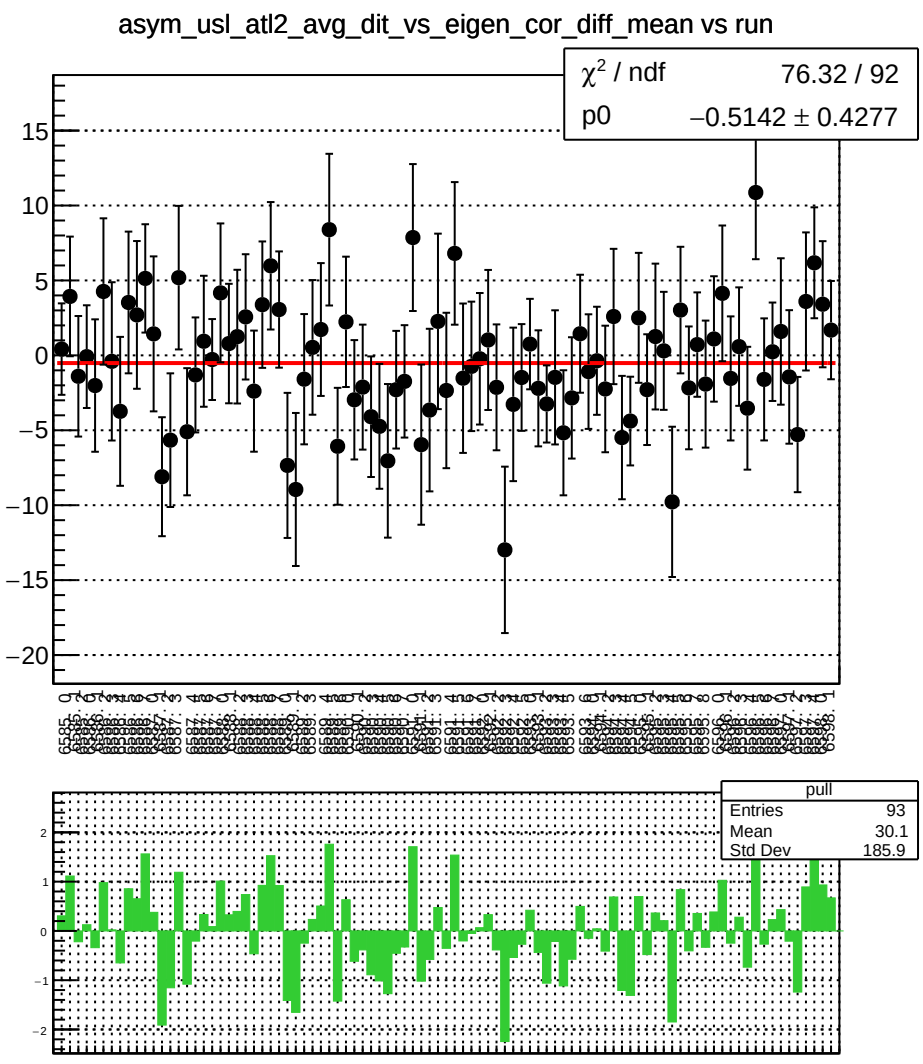

asym_usl_atl2_avg_rms vs run
χ² / ndf 1.173e+04 / 92
p0 5324 ± 4.015
6500
6000
5500
5000
4500

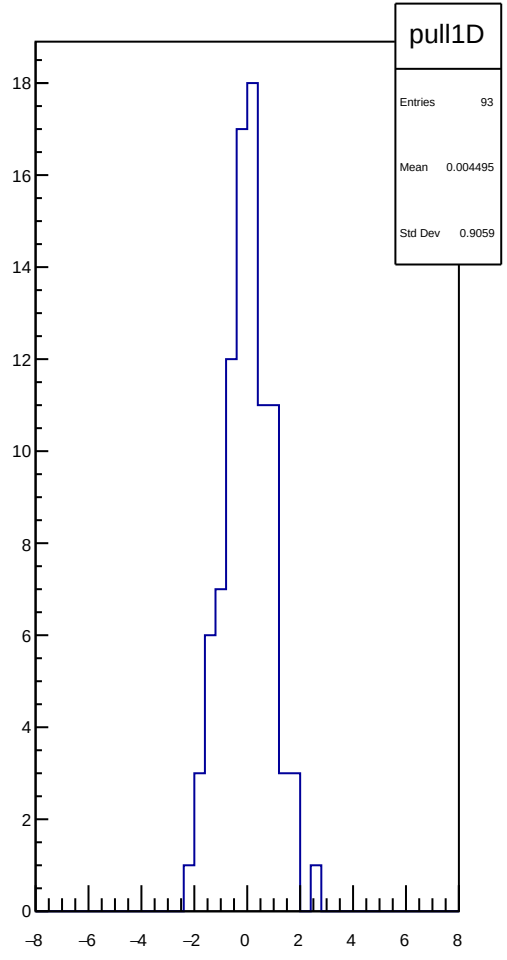

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.53 / 92
p0 1.483e−13 ± 1.124e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 69.19
Std Dev 34.7
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.07911
Std Dev 0.9096
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

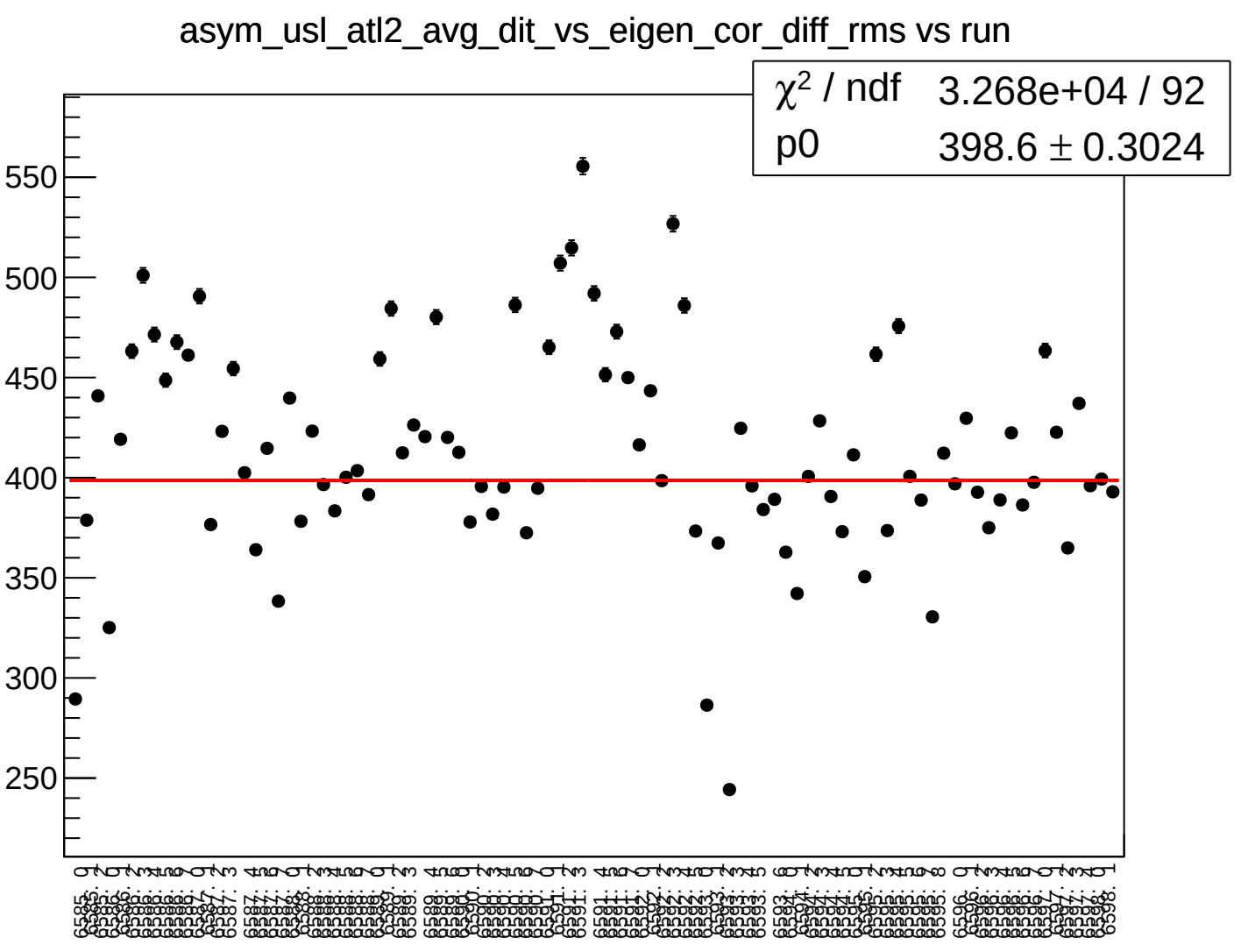

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.287e+06 / 92
p0 5.527e−11 ± 7.947e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

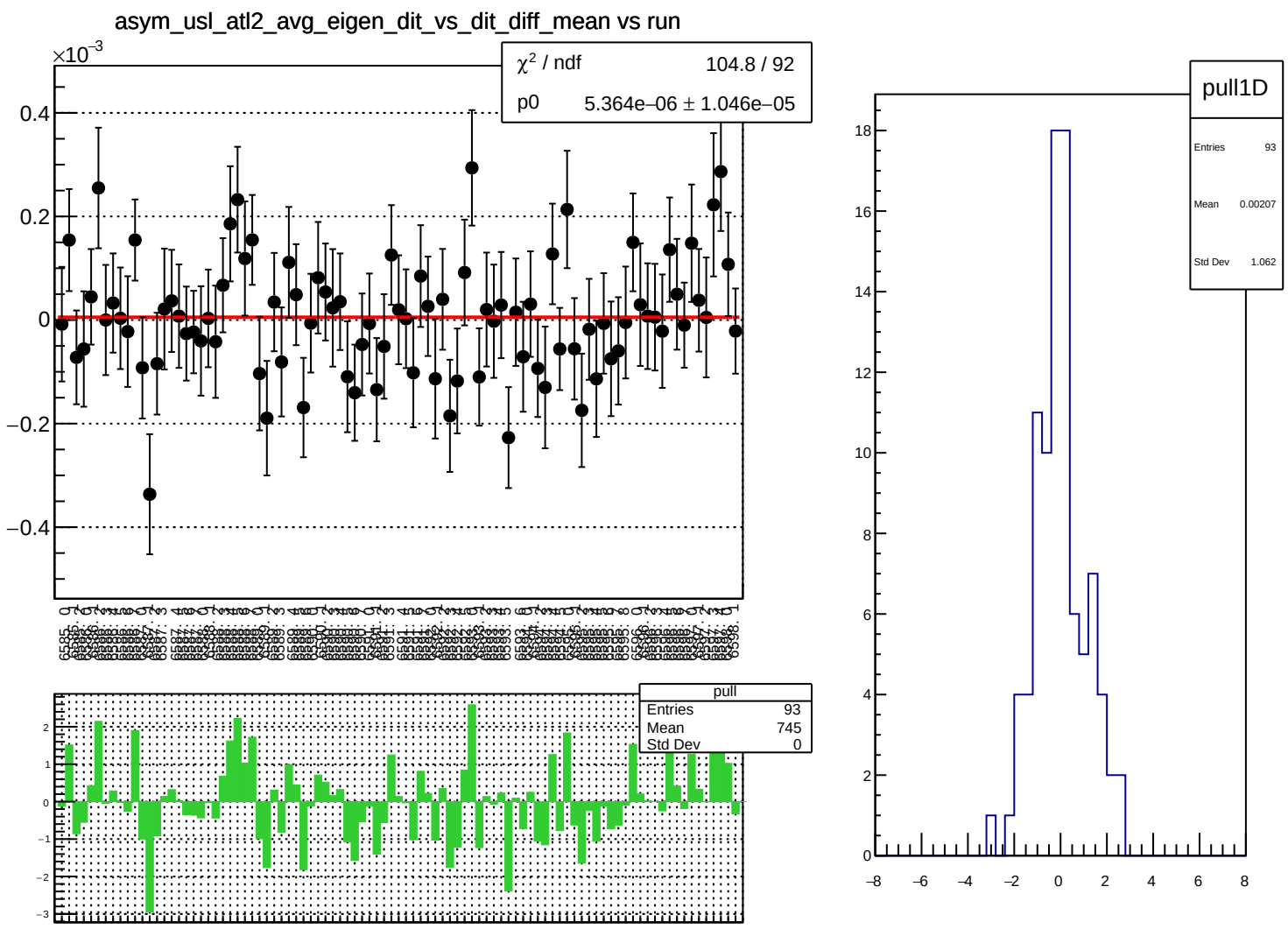

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.32 / 92
p0 −0.5142 ± 0.4277
pull
Entries 93
Mean 30.1
Std Dev 185.9
pull1D
Entries 93
Mean 0.004495
Std Dev 0.9059

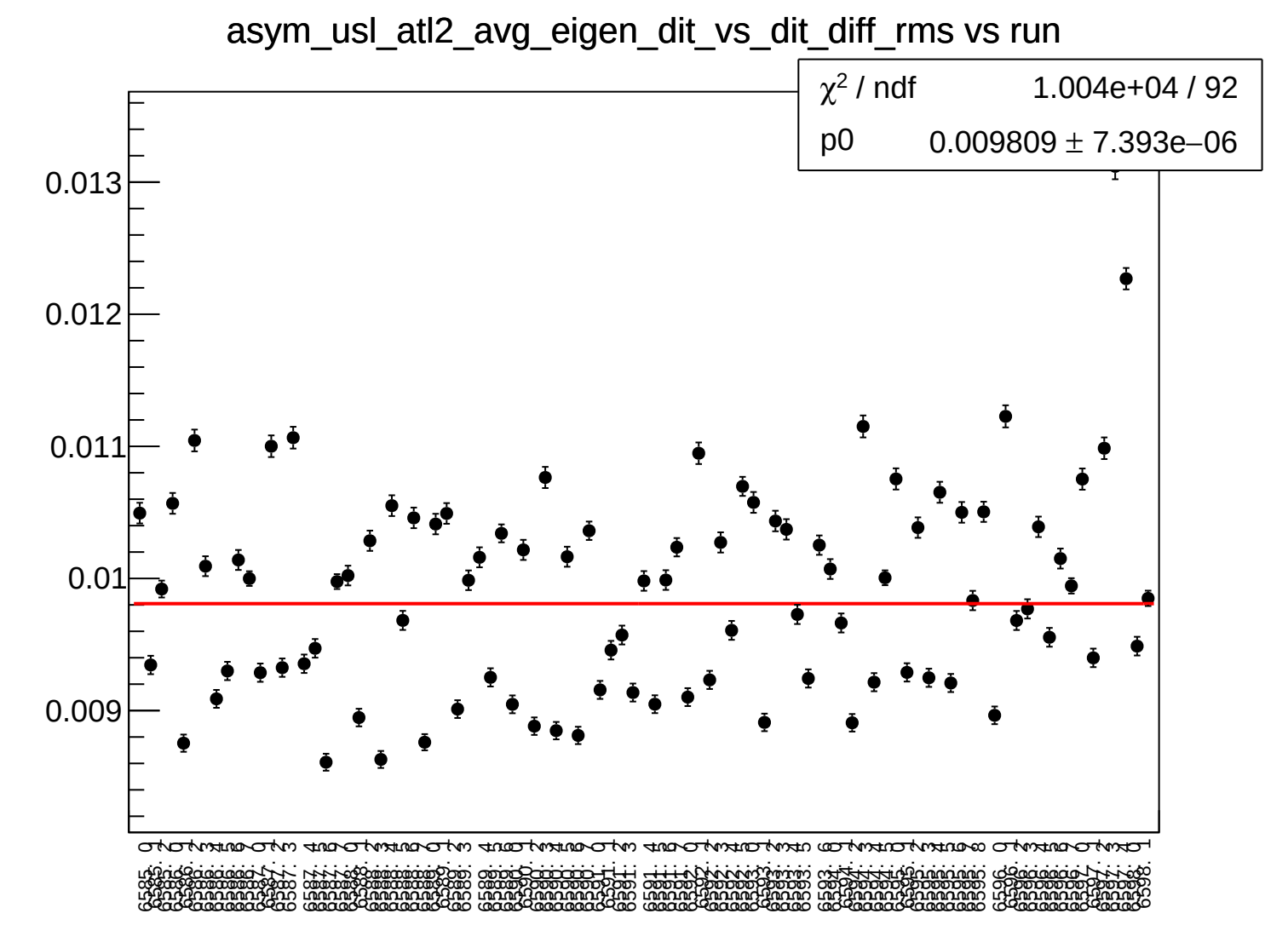

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.268e+04 / 92
p0 398.6 ± 0.3024
550
500
450
400
350
300
250

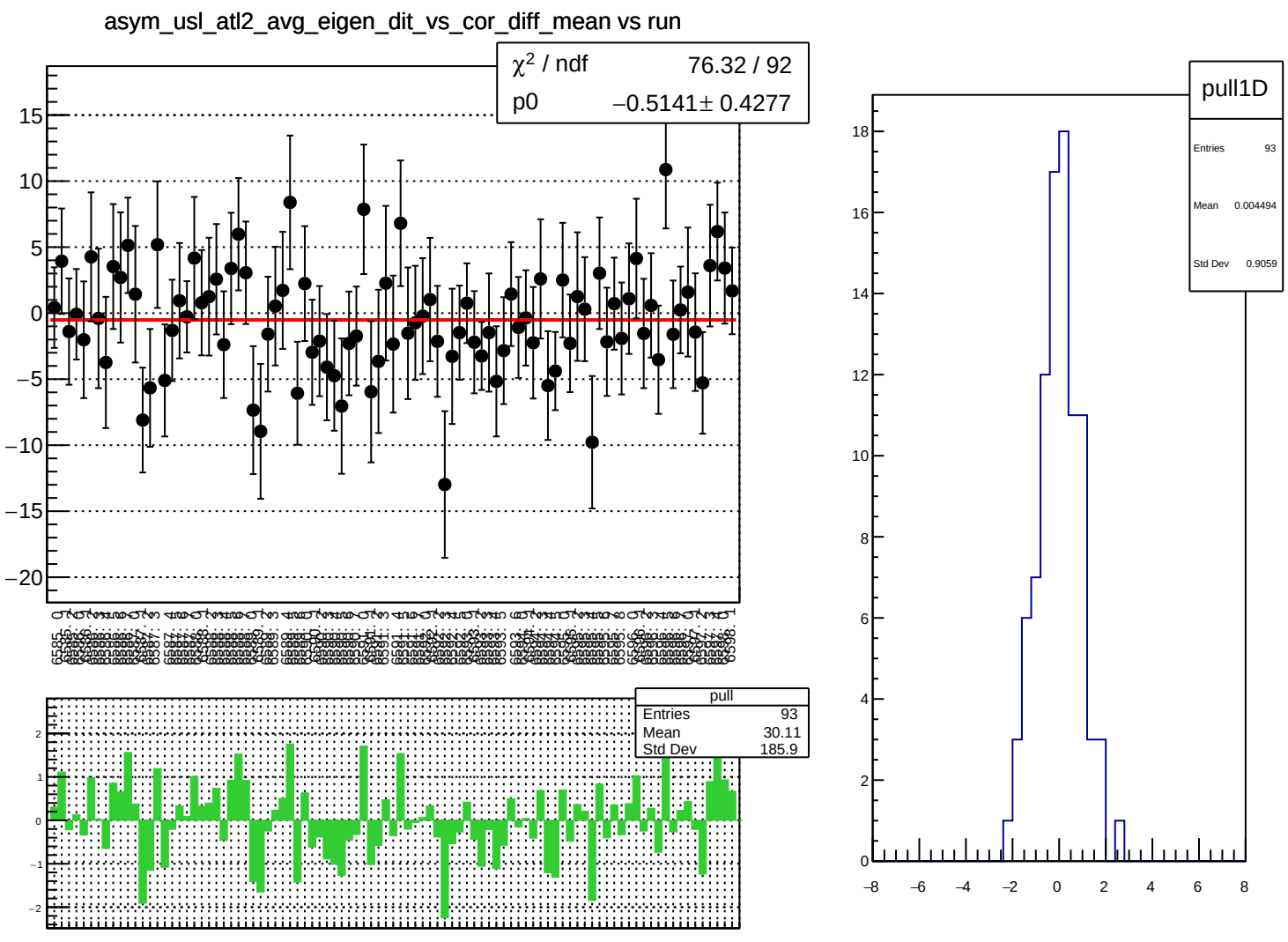

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.32 / 92
p0 −0.5142 ± 0.4277
pull
Entries 93
Mean 30.1
Std Dev 185.9

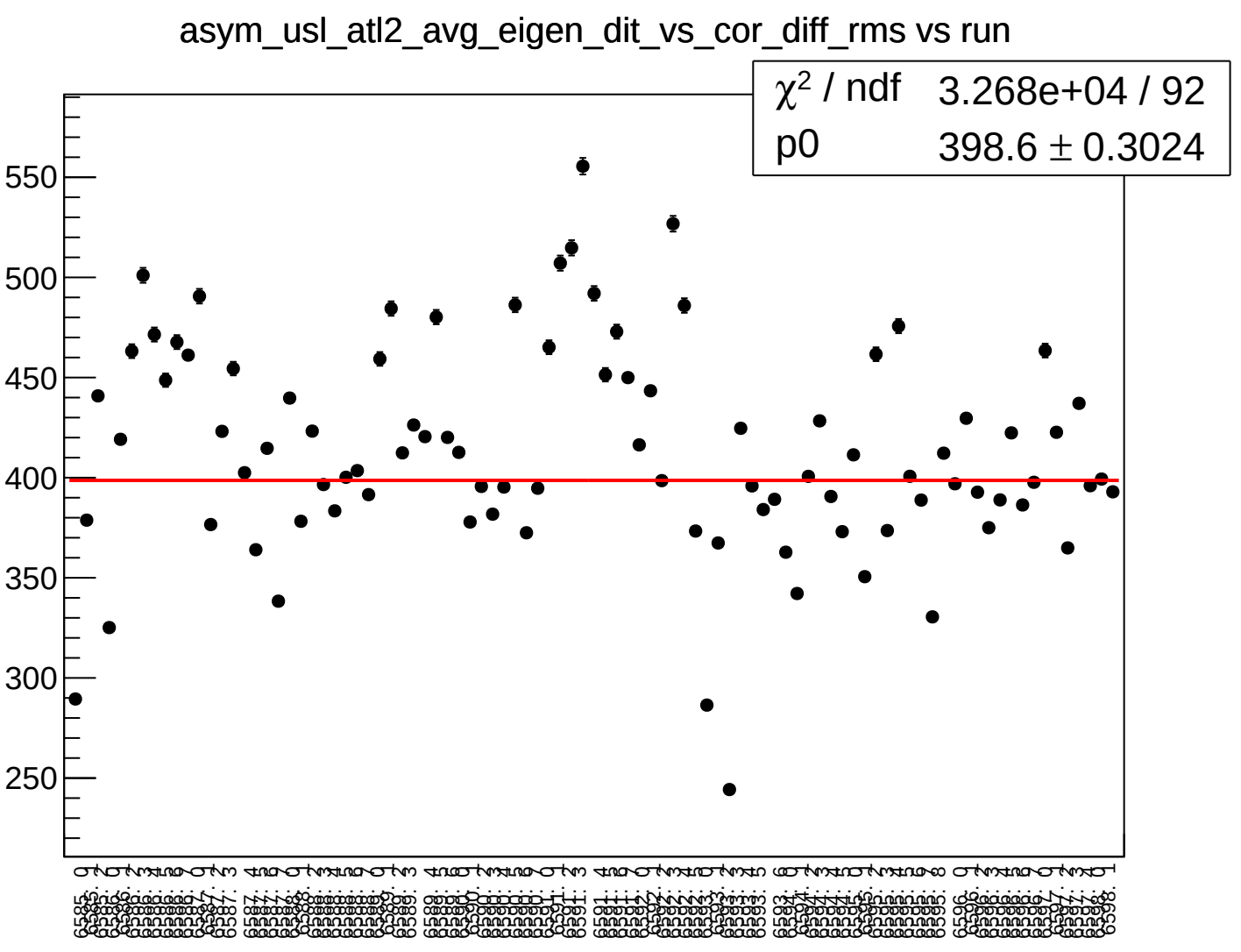

pull1D
Entries 93
Mean 0.004495
Std Dev 0.9059

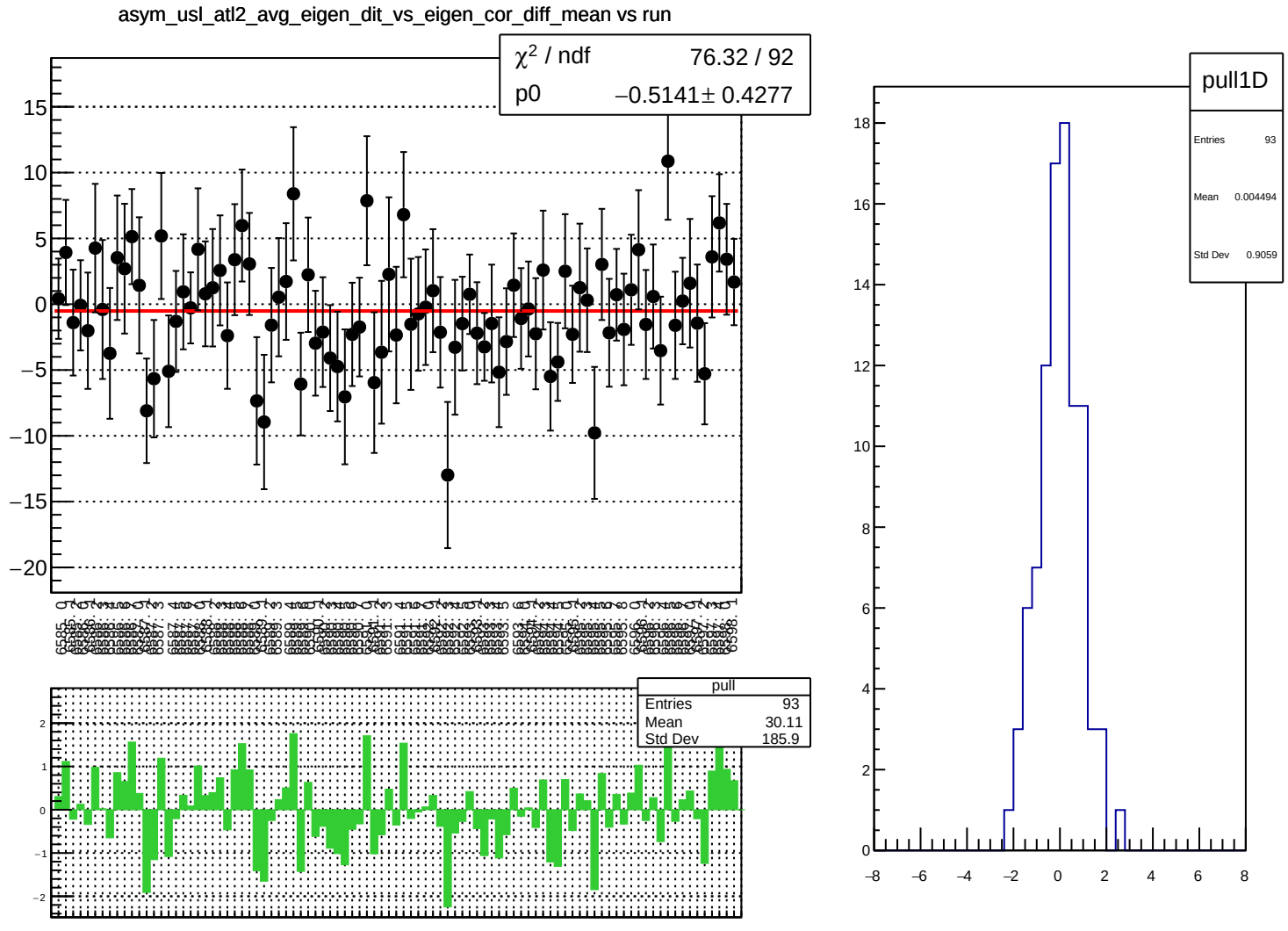

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.268e+04 / 92
p0 398.6 ± 0.3024
550
500
450
400
350
300
250

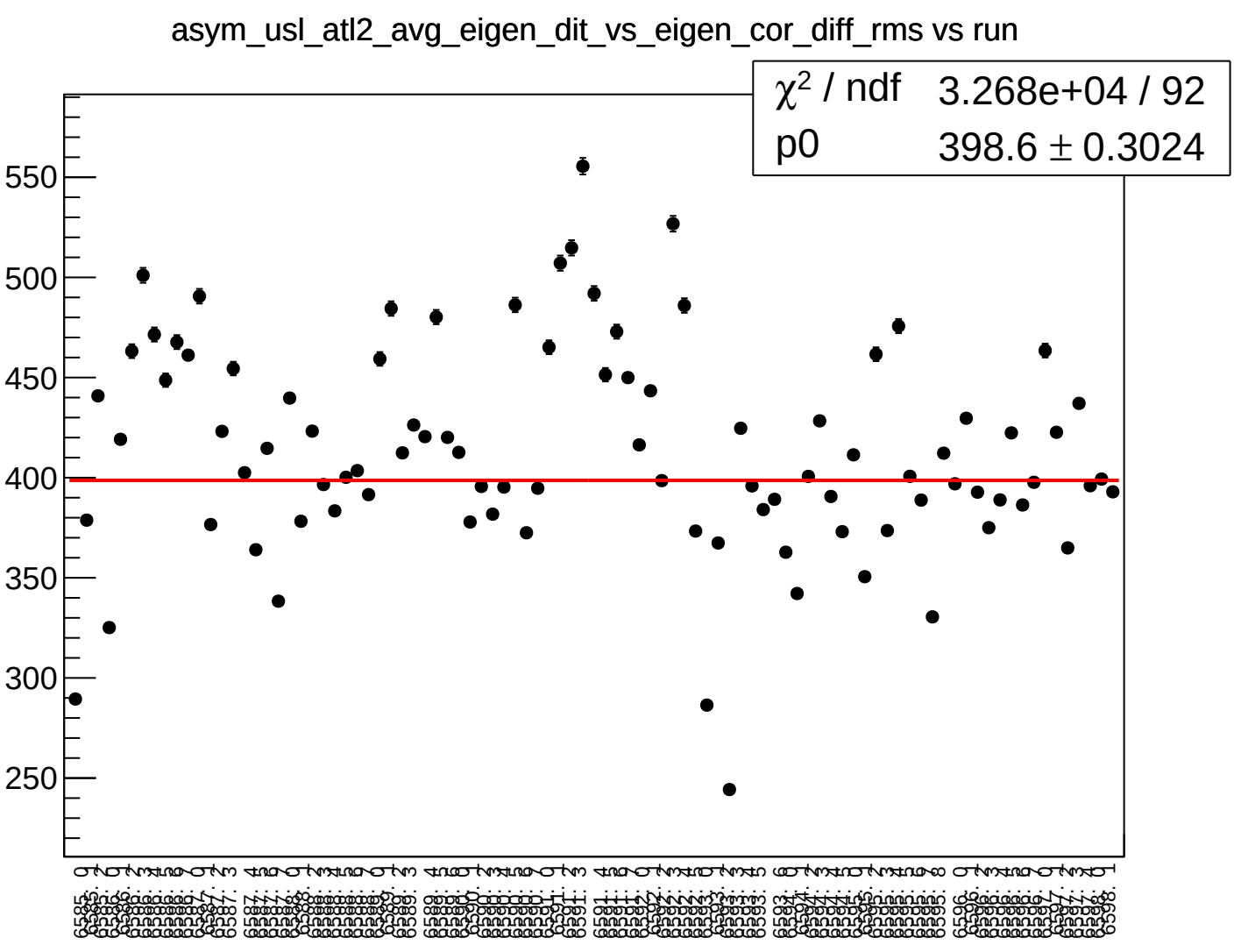

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.8 / 92
p0 5.364e−06 ± 1.046e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 745
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.00207
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

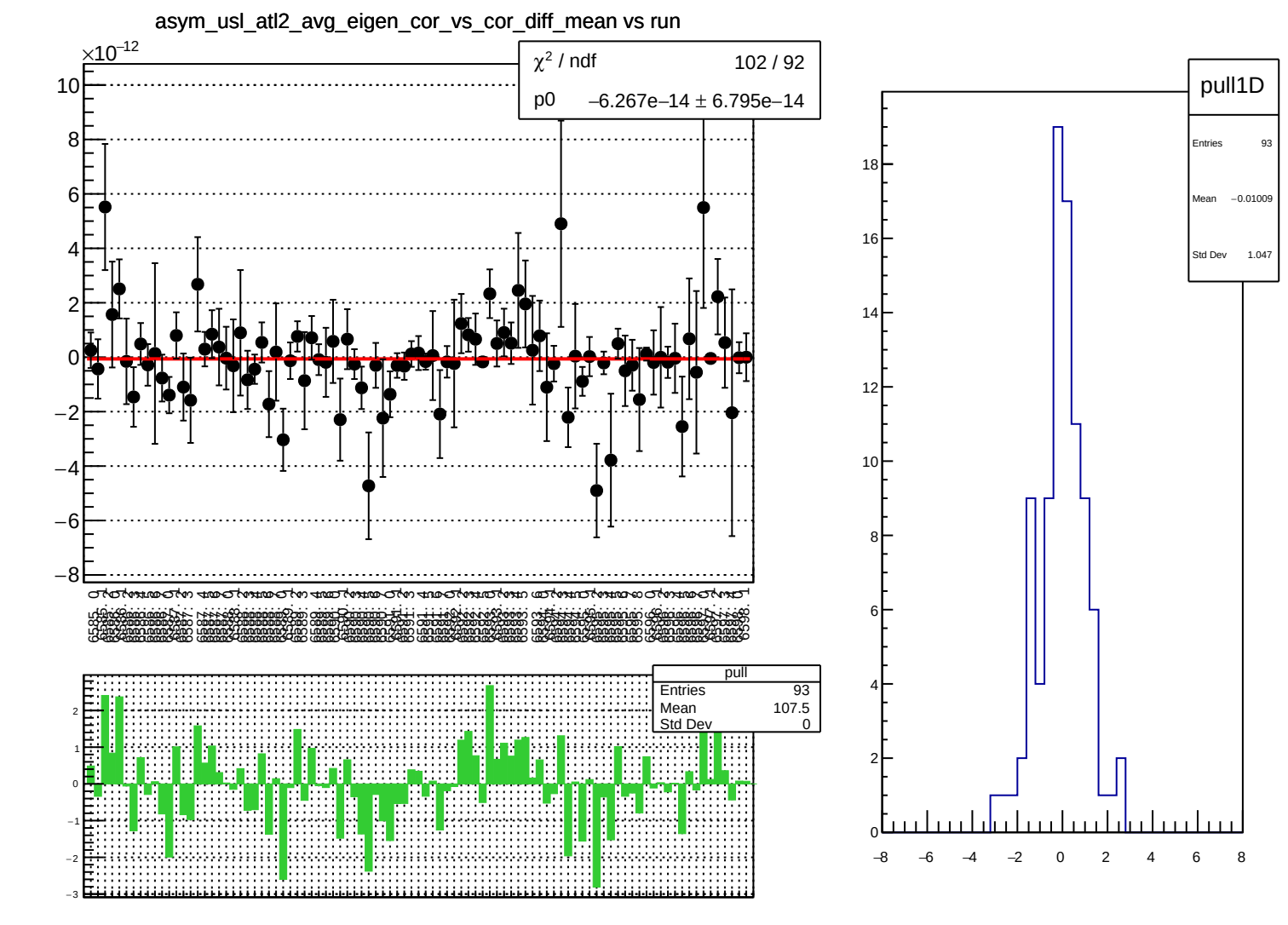

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.004e+04 / 92
p0 0.009809 ± 7.393e−06
0.013
0.012
0.011
0.01
0.009

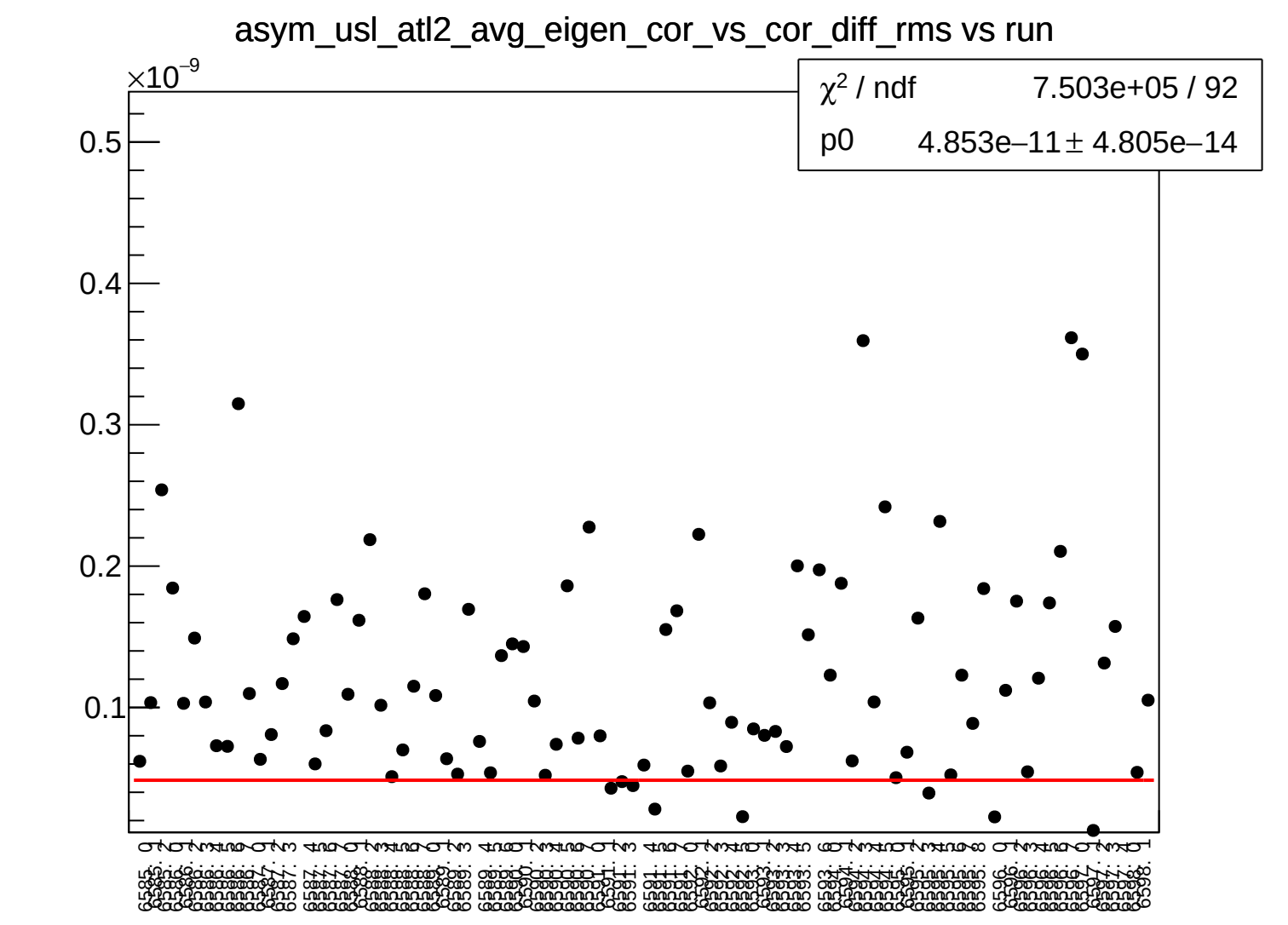

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.32 / 92
p0 −0.5141± 0.4277
pull
Entries 93
Mean 30.11
Std Dev 185.9
pull1D
Entries 93
Mean 0.004494
Std Dev 0.9059

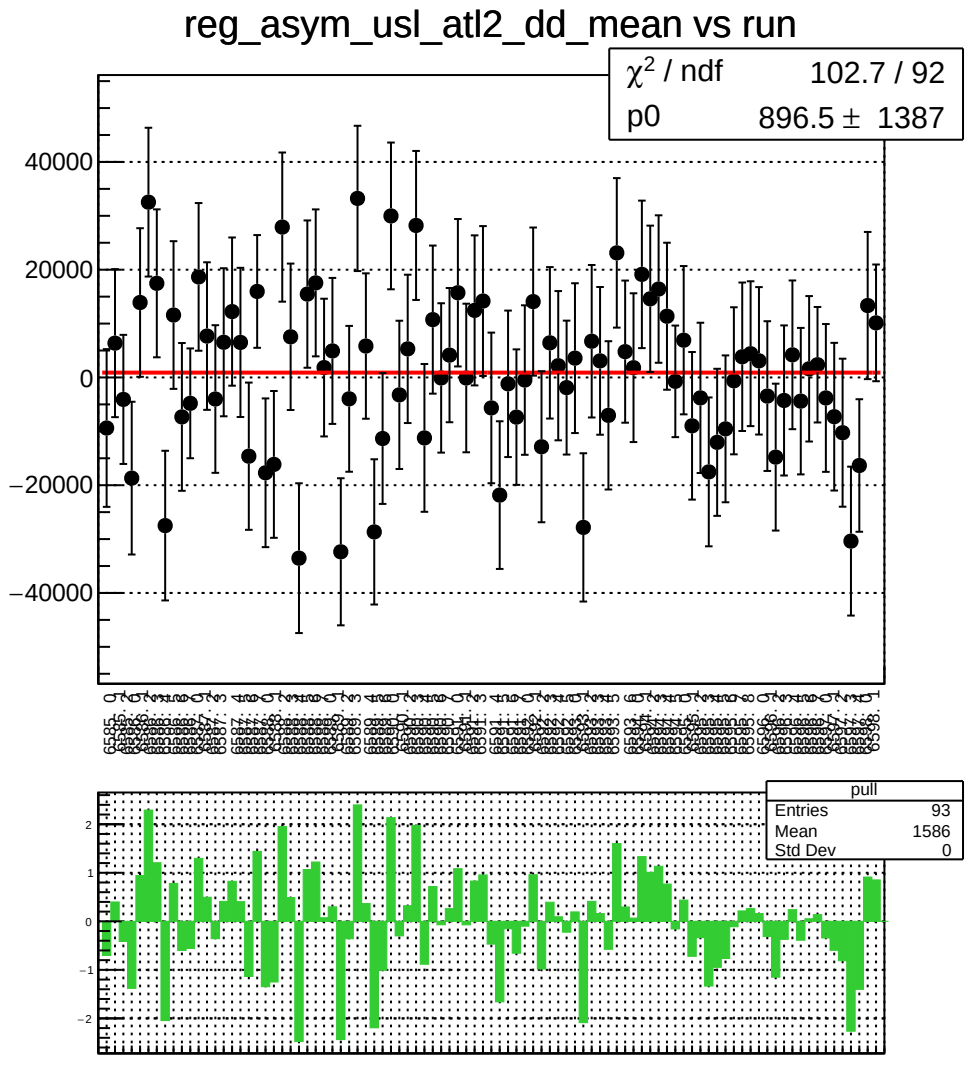

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.268e+04 / 92
p0 398.6 ± 0.3024
550
500
450
400
350
300
250

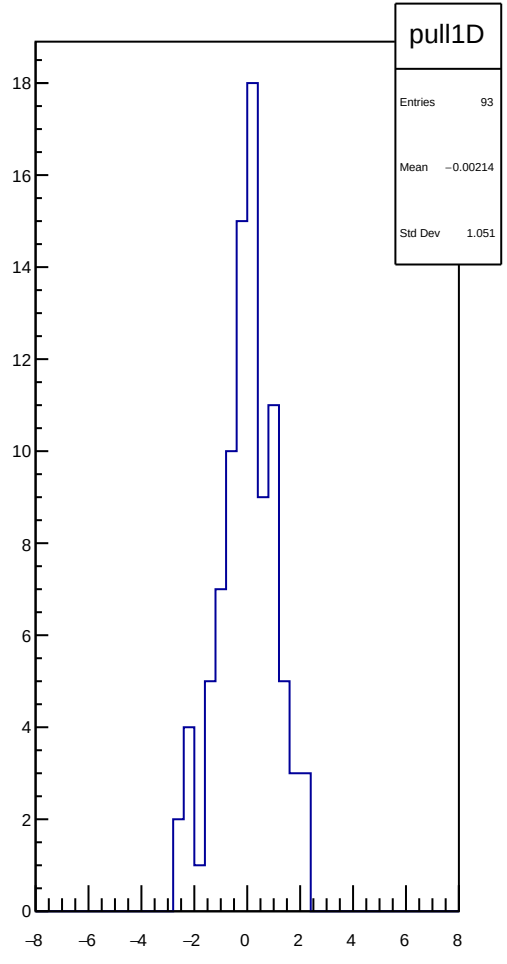

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.32 / 92
p0 −0.5141± 0.4277
pull
Entries 93
Mean 30.11
Std Dev 185.9
pull1D
Entries 93
Mean 0.004494
Std Dev 0.9059

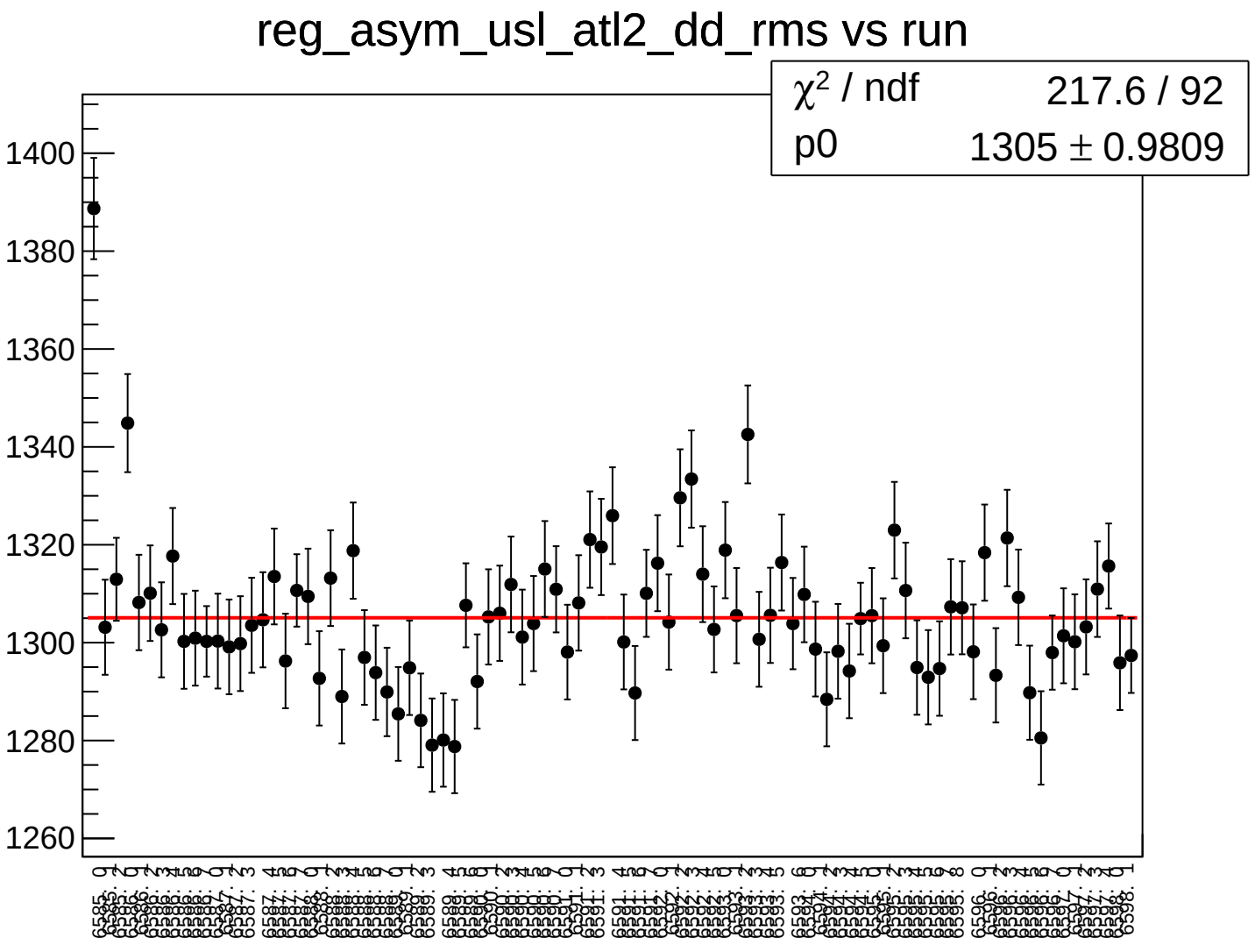

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.268e+04 / 92
p0 398.6 ± 0.3024
550
500
450
400
350
300
250

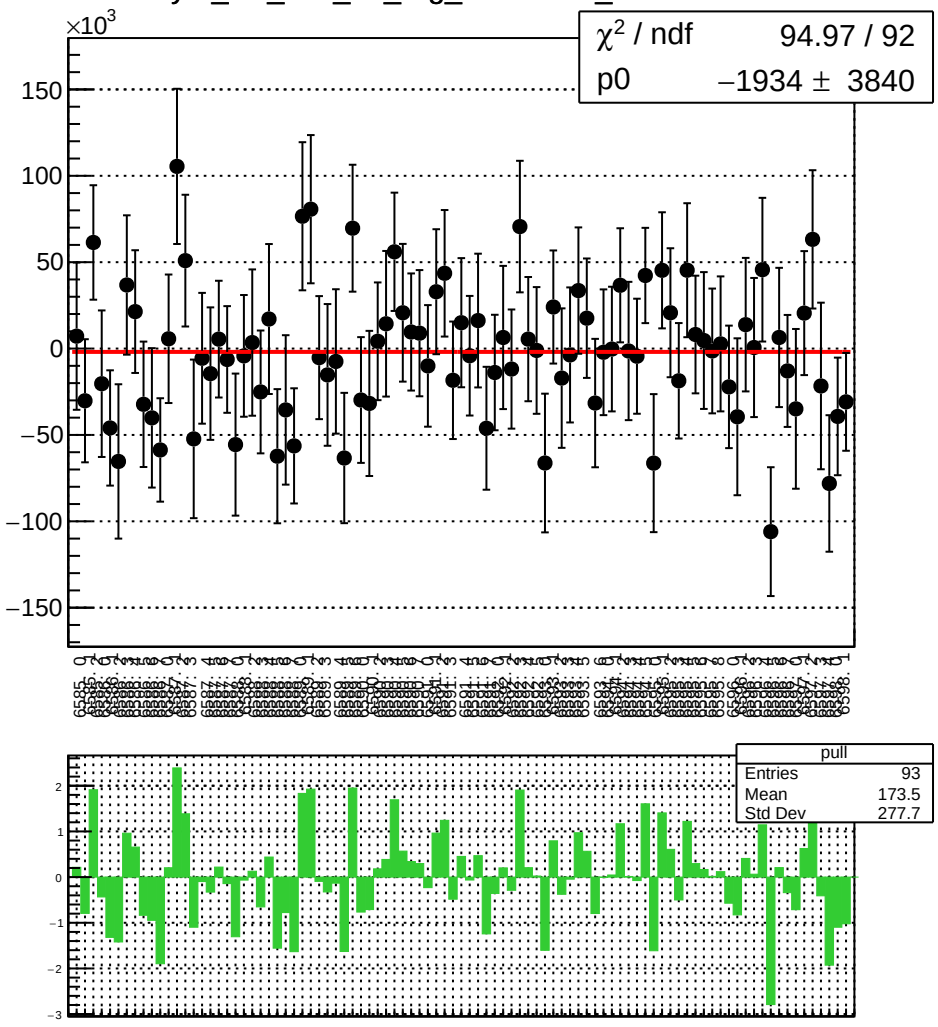

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102 / 92
p0 −6.267e−14 ± 6.795e−14
pull
Entries 93
Mean 107.5
Std Dev 0
pull1D
Entries 93
Mean −0.01009
Std Dev 1.047

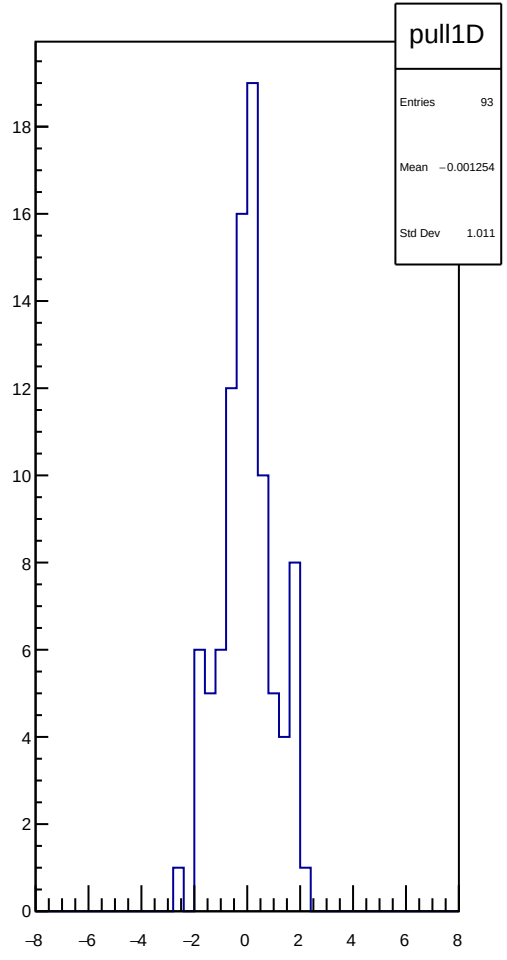

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.503e+05 / 92
p0 4.853e−11 ± 4.805e−14
0.5
0.4
0.3
0.2
0.1

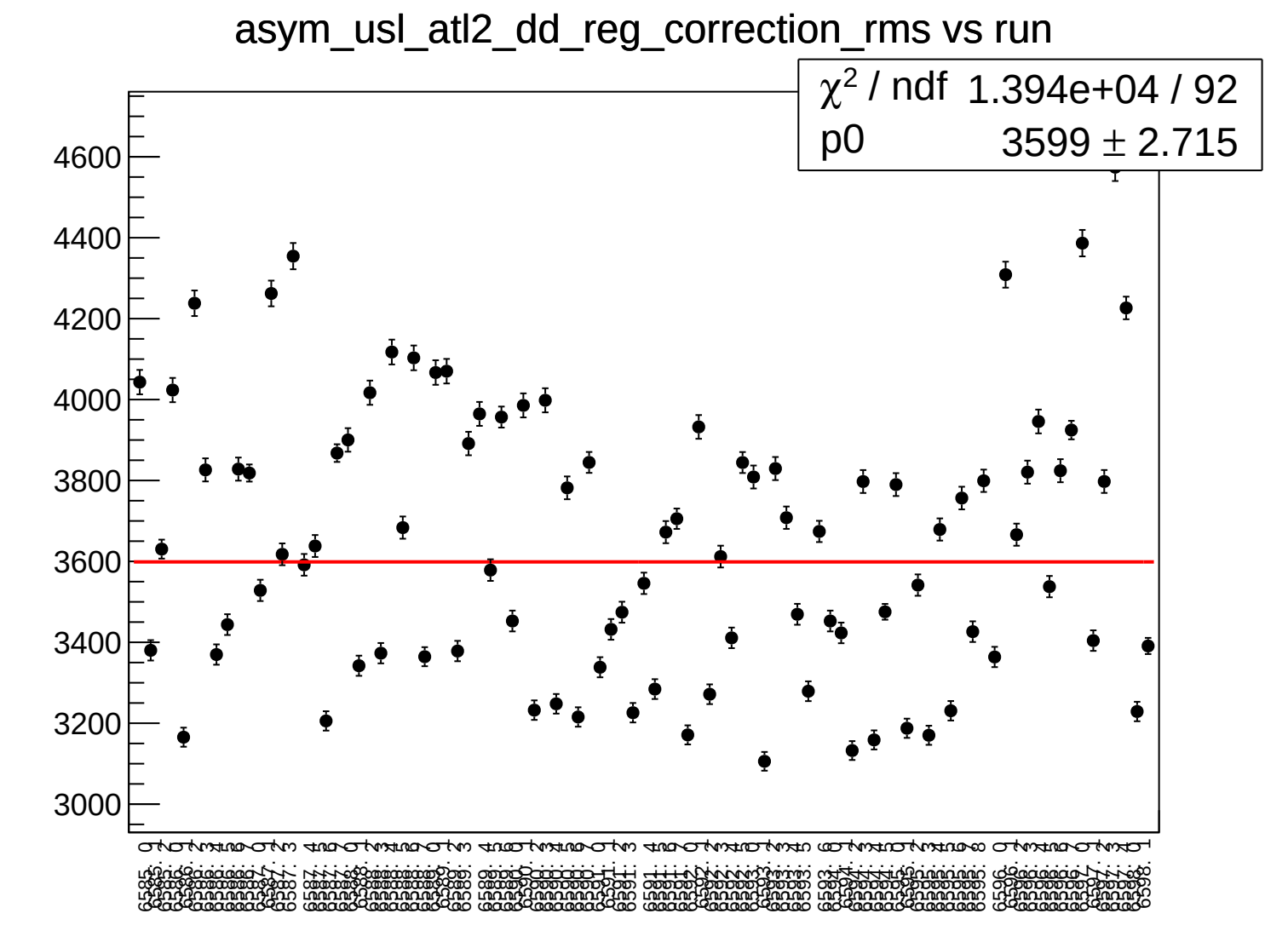

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 102.7 / 92
p0 896.5 ± 1387
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1586
Std Dev 0
2
1
0
−1
−2

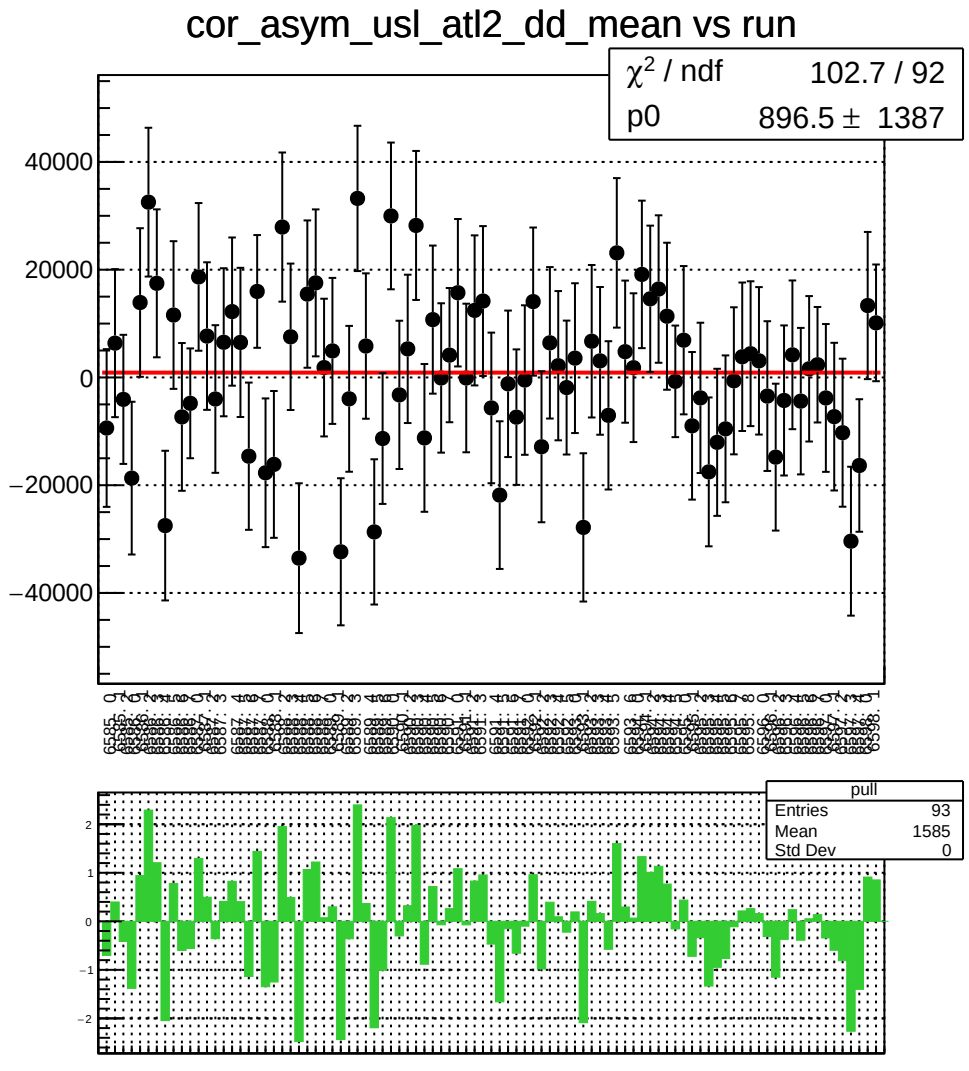

pull1D
Entries 93
Mean −0.00214
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

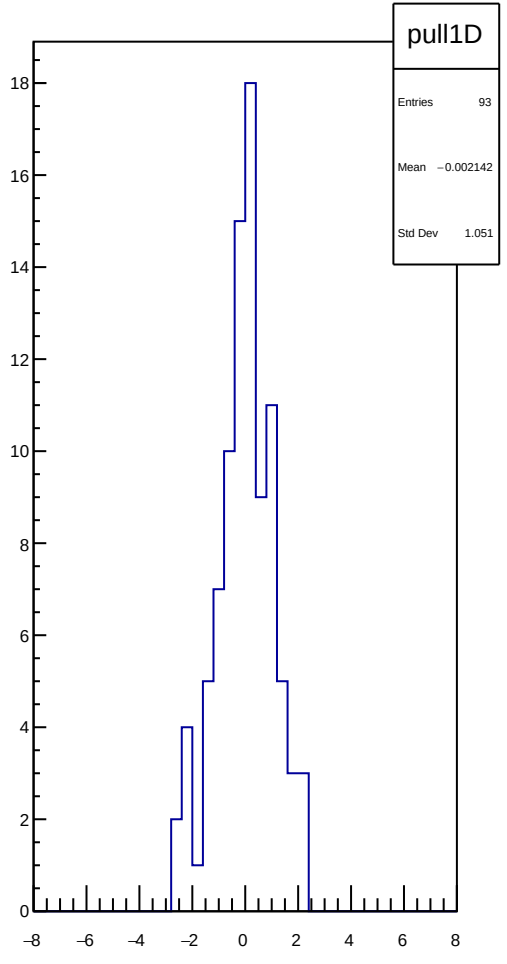

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 217.6 / 92
p0 1305 ± 0.9809
1400
1380
1360
1340
1320
1300
1280
1260

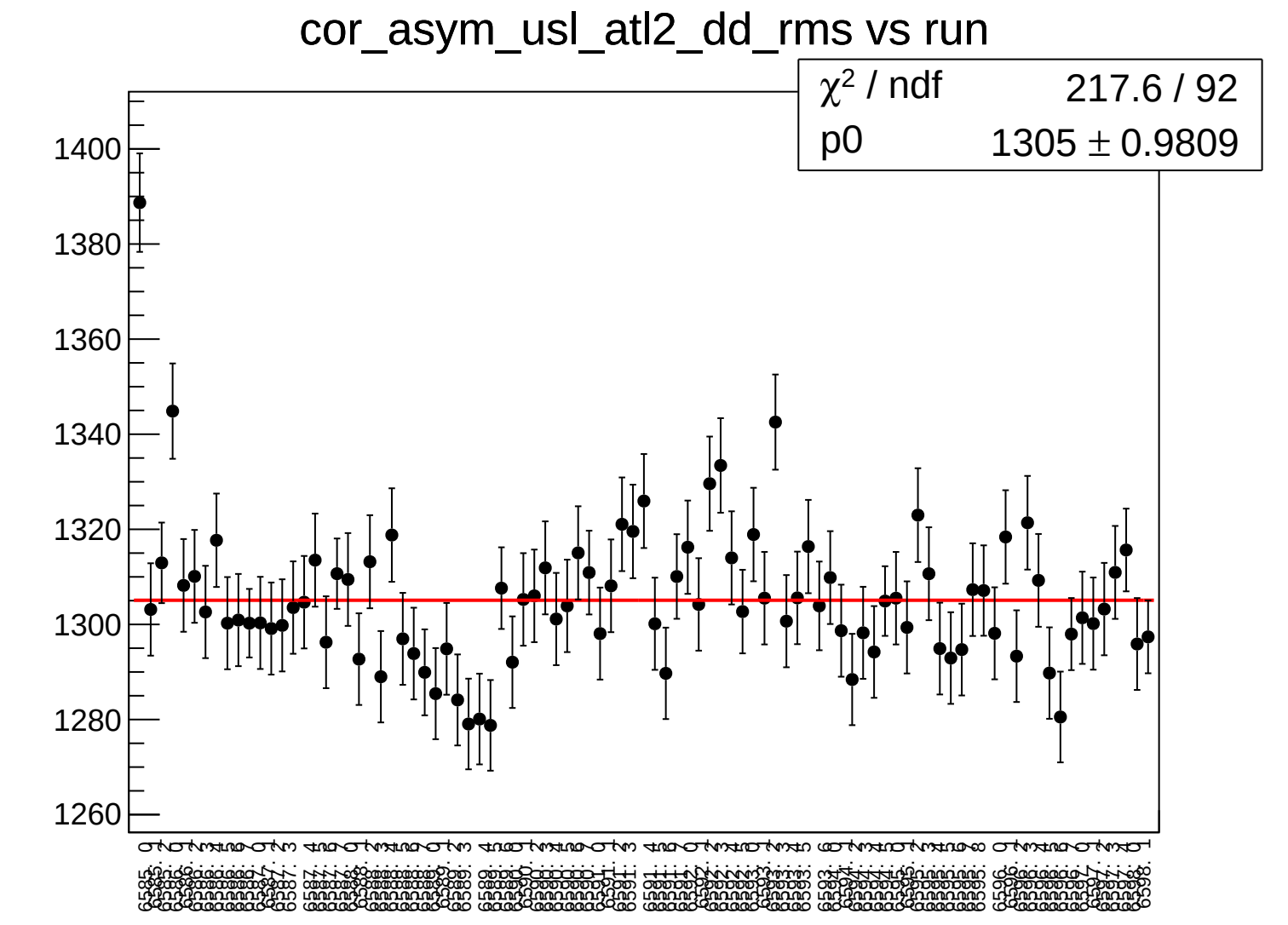

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.97 / 92
p0 −1934 ± 3840
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 173.5
Std Dev 277.7
2
1
0
−1
−2
−3

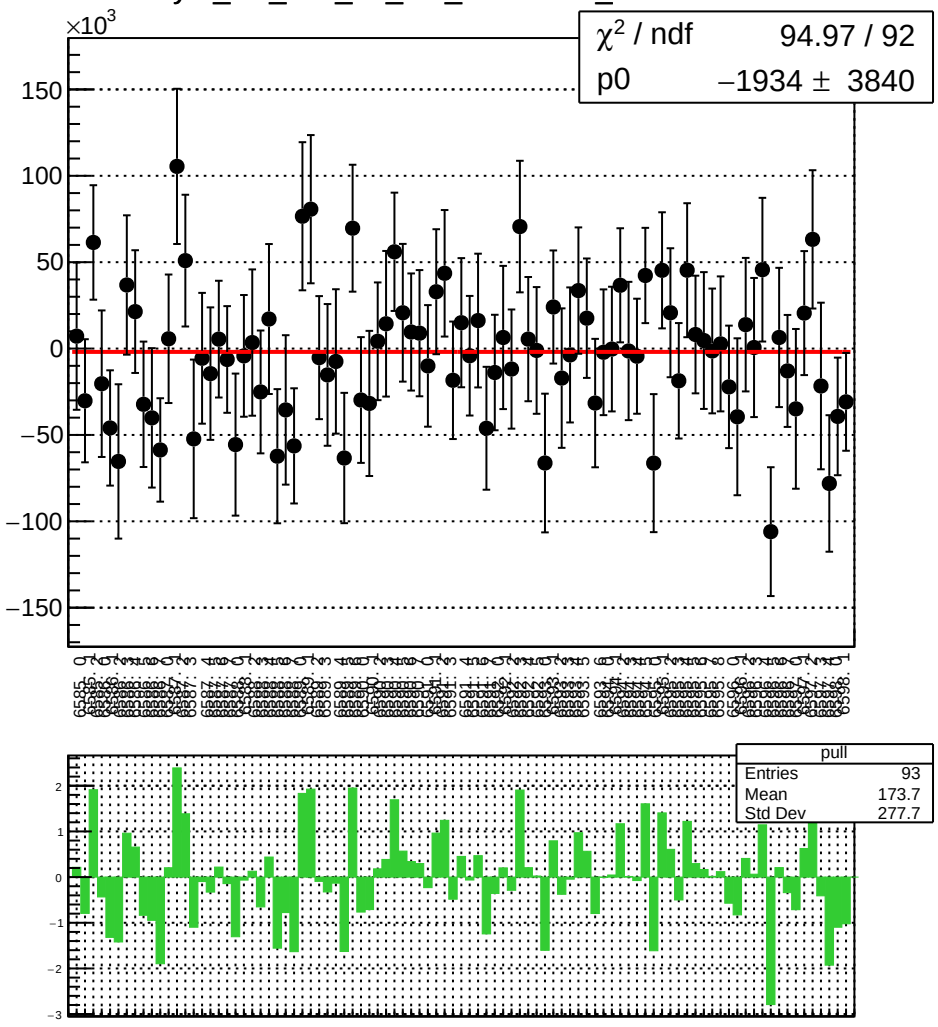

pull1D
Entries 93
Mean −0.001254
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

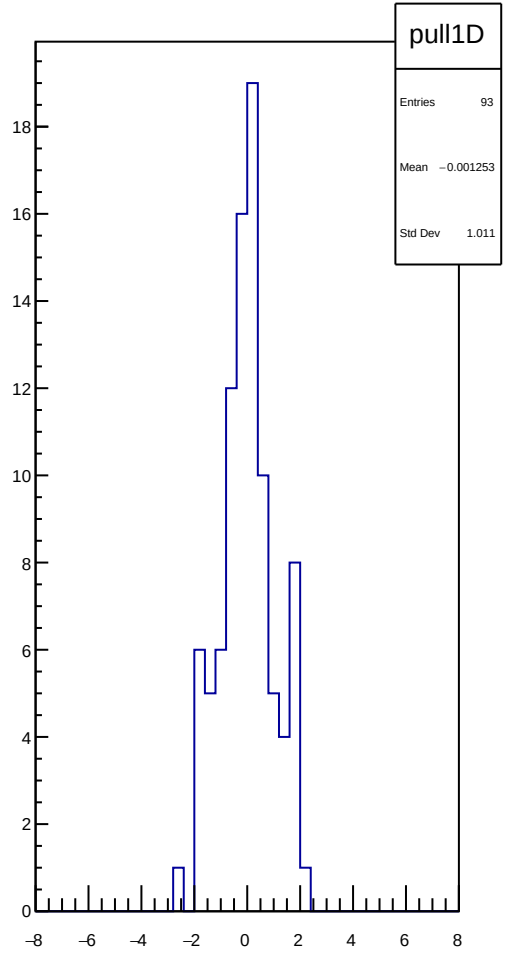

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.394e+04 / 92
p0 3599 ± 2.715
4600
4400
4200
4000
3800
3600
3400
3200
3000

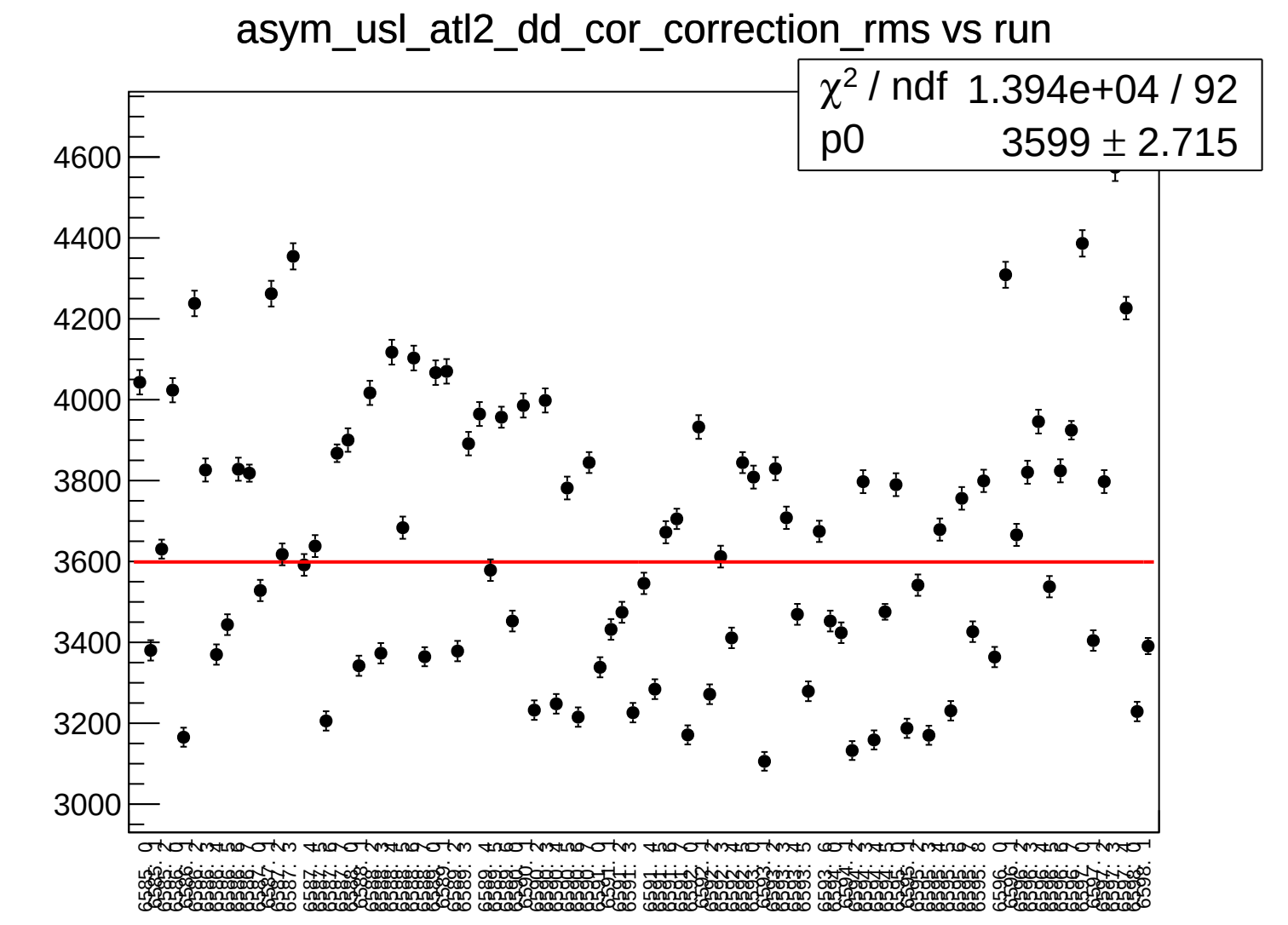

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 102.7 / 92
p0 896.5 ± 1387
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1585
Std Dev 0
2
1
0
−1
−2

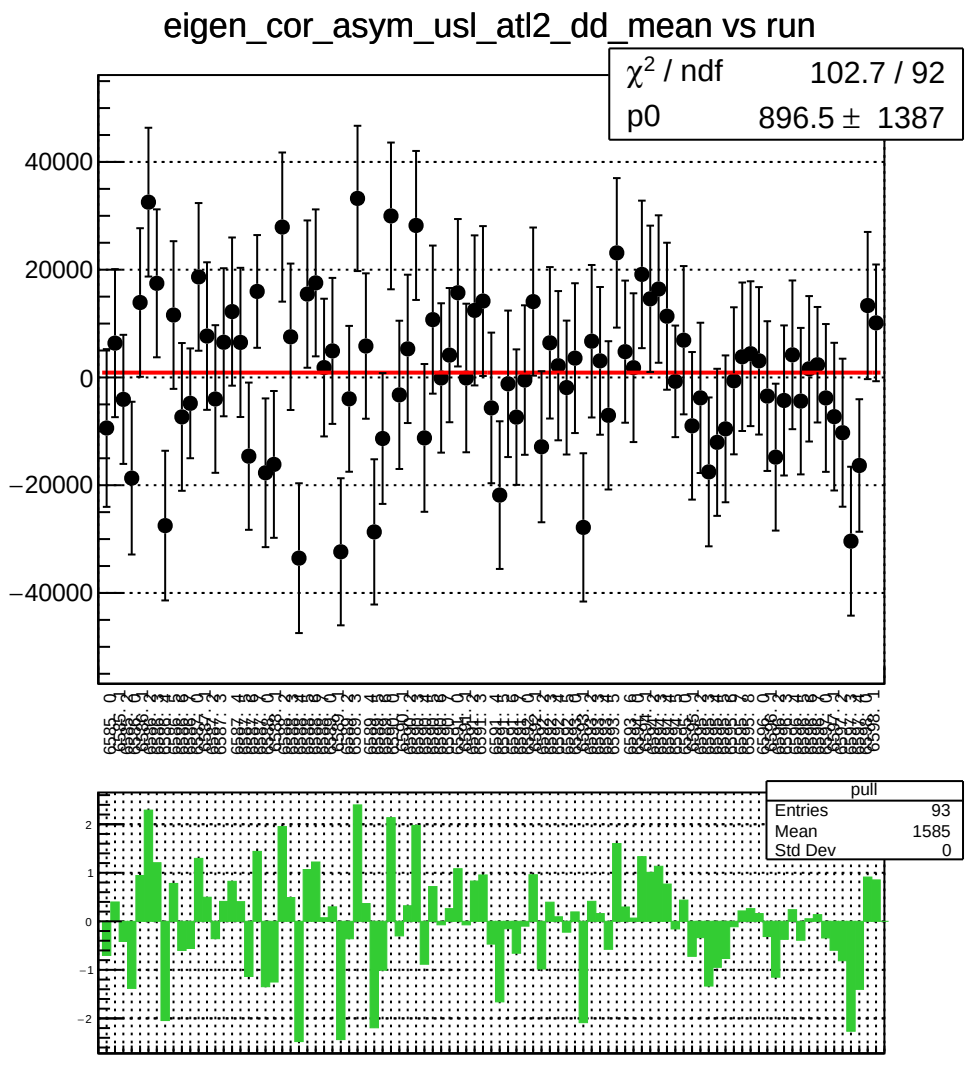

pull1D
Entries 93
Mean −0.002142
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

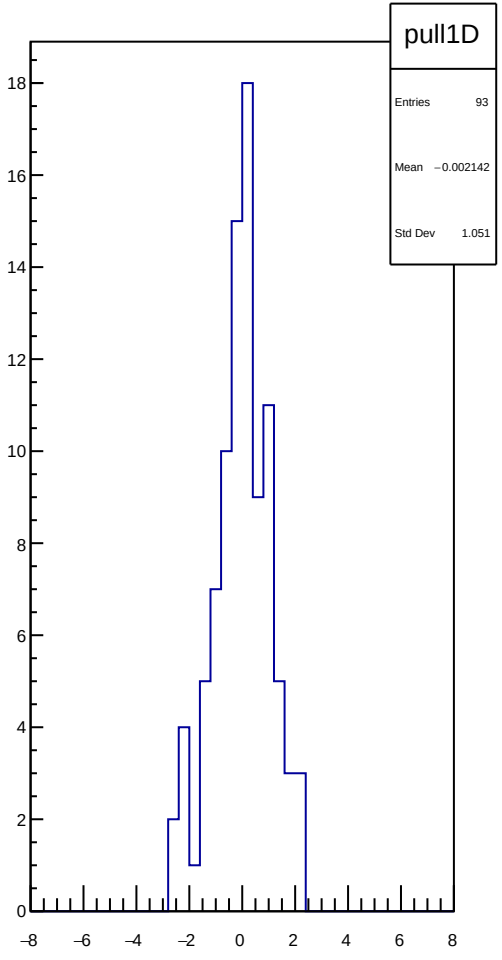

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 217.6 / 92
p0 1305 ± 0.9809
1400
1380
1360
1340
1320
1300
1280
1260

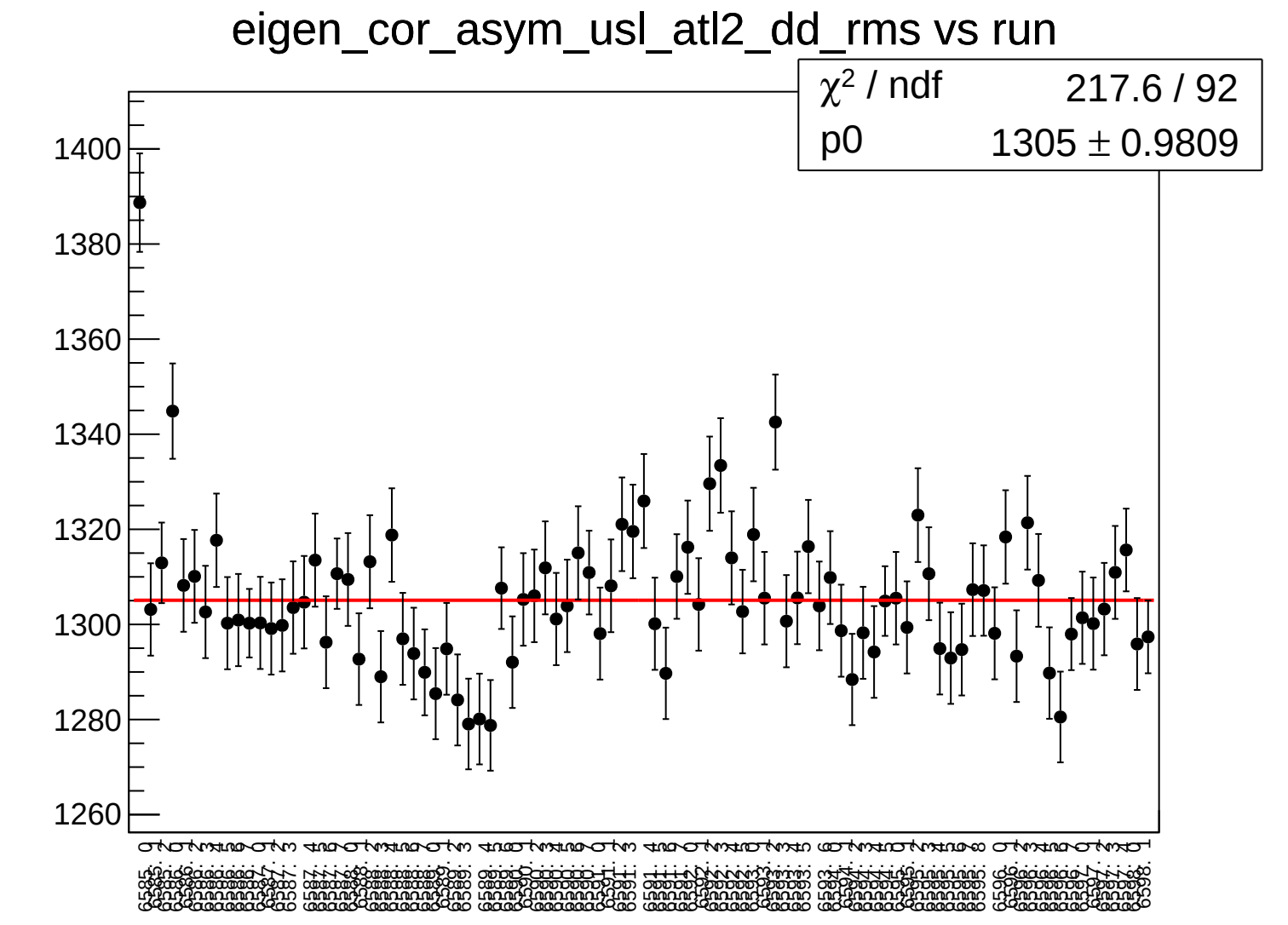

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.97 / 92
p0 −1934 ± 3840
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 173.7
Std Dev 277.7
2
1
0
−1
−2
−3

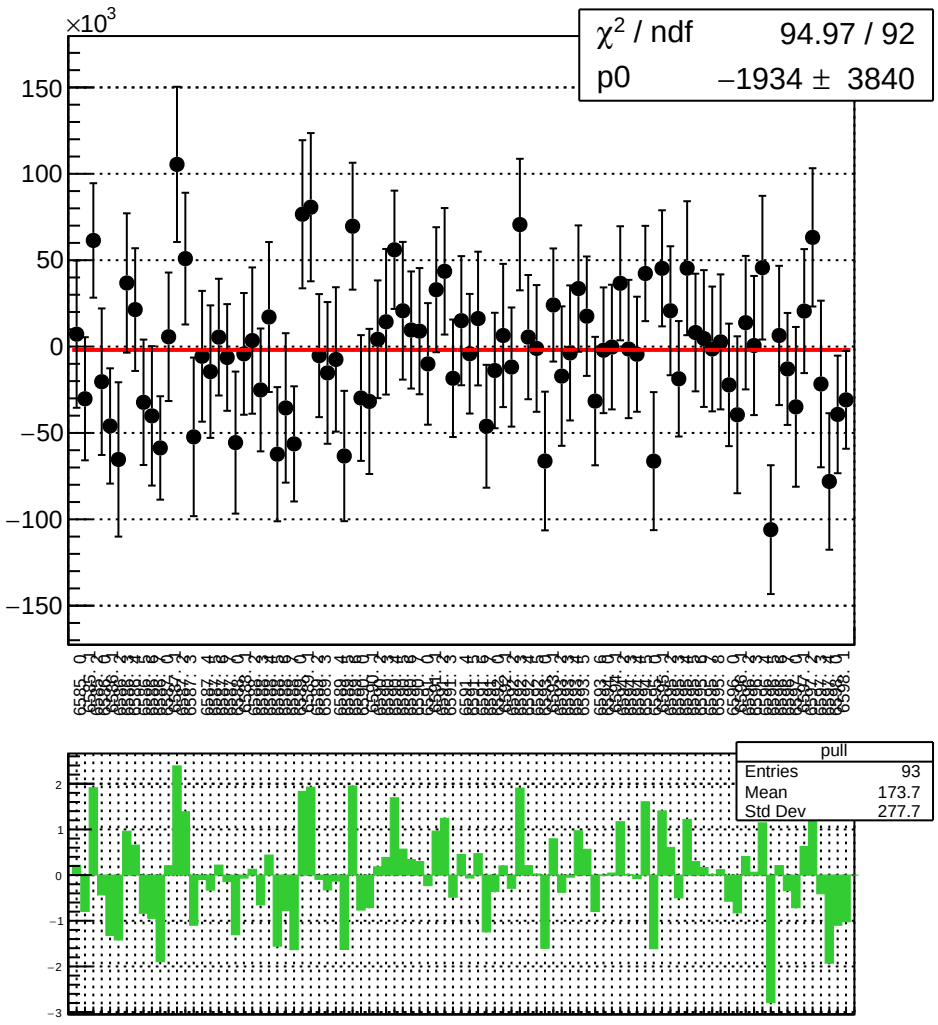

pull1D
Entries 93
Mean −0.001253
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

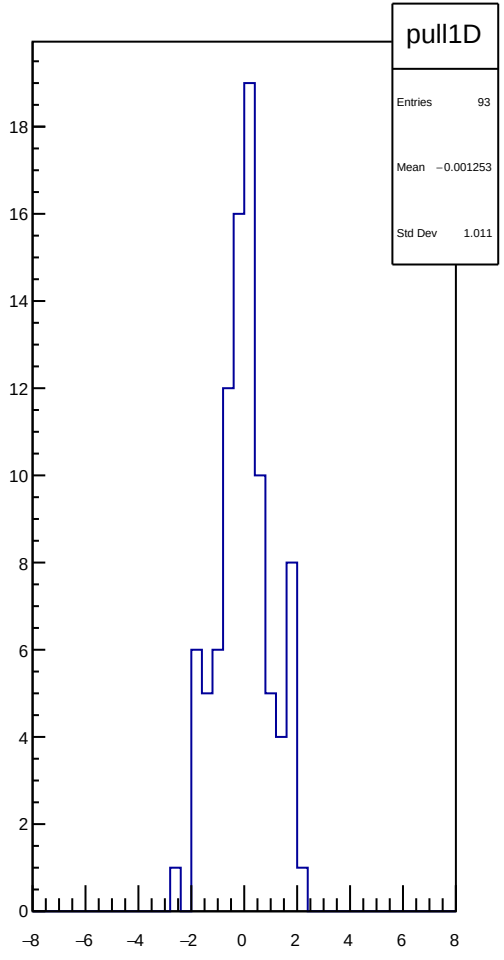

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.394e+04 / 92
p0 3599 ± 2.715
4600
4400
4200
4000
3800
3600
3400
3200
3000

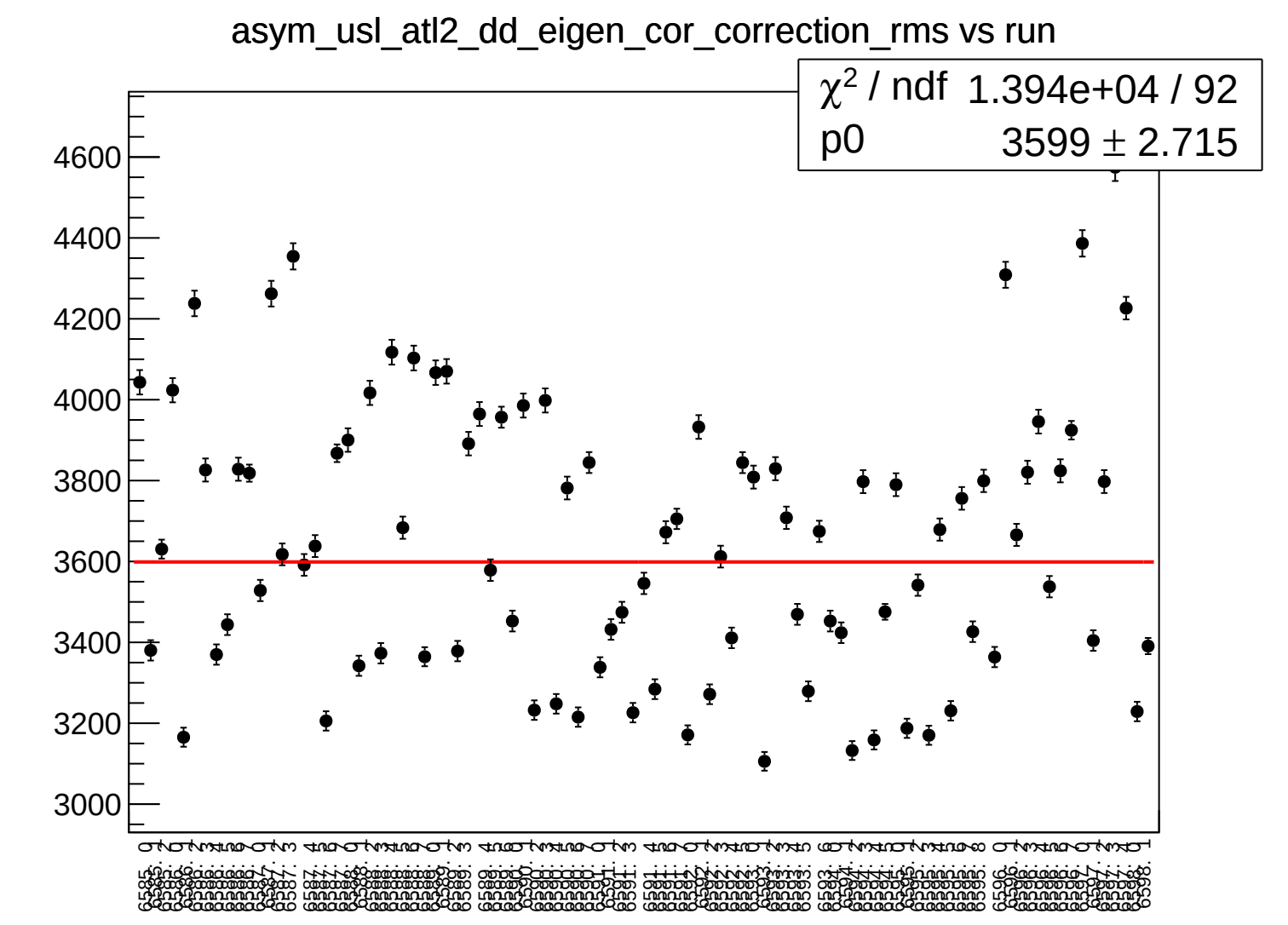

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 102.7 / 92
p0 896.5 ± 1387
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1585
Std Dev 0
2
1
0
−1
−2

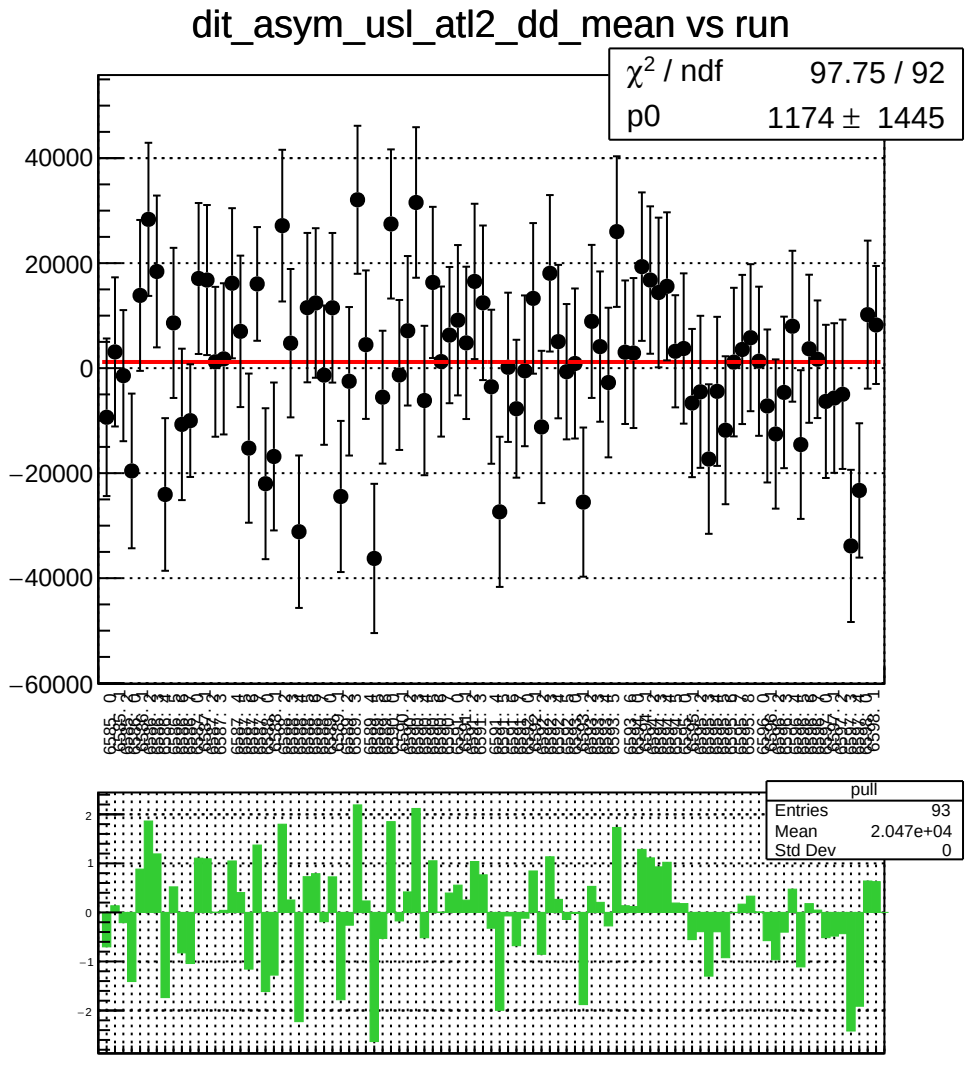

pull1D
Entries 93
Mean −0.002142
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

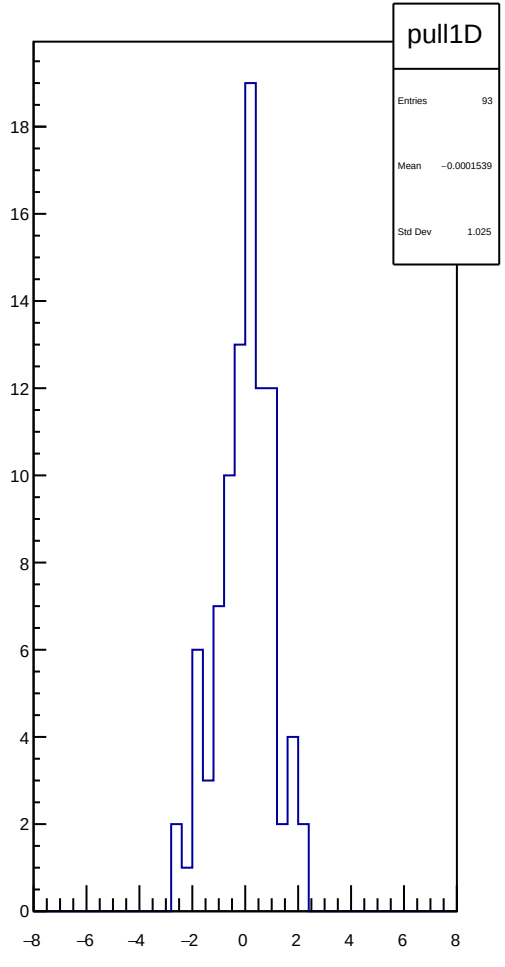

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 217.6 / 92
p0 1305 ± 0.9809
1400
1380
1360
1340
1320
1300
1280
1260

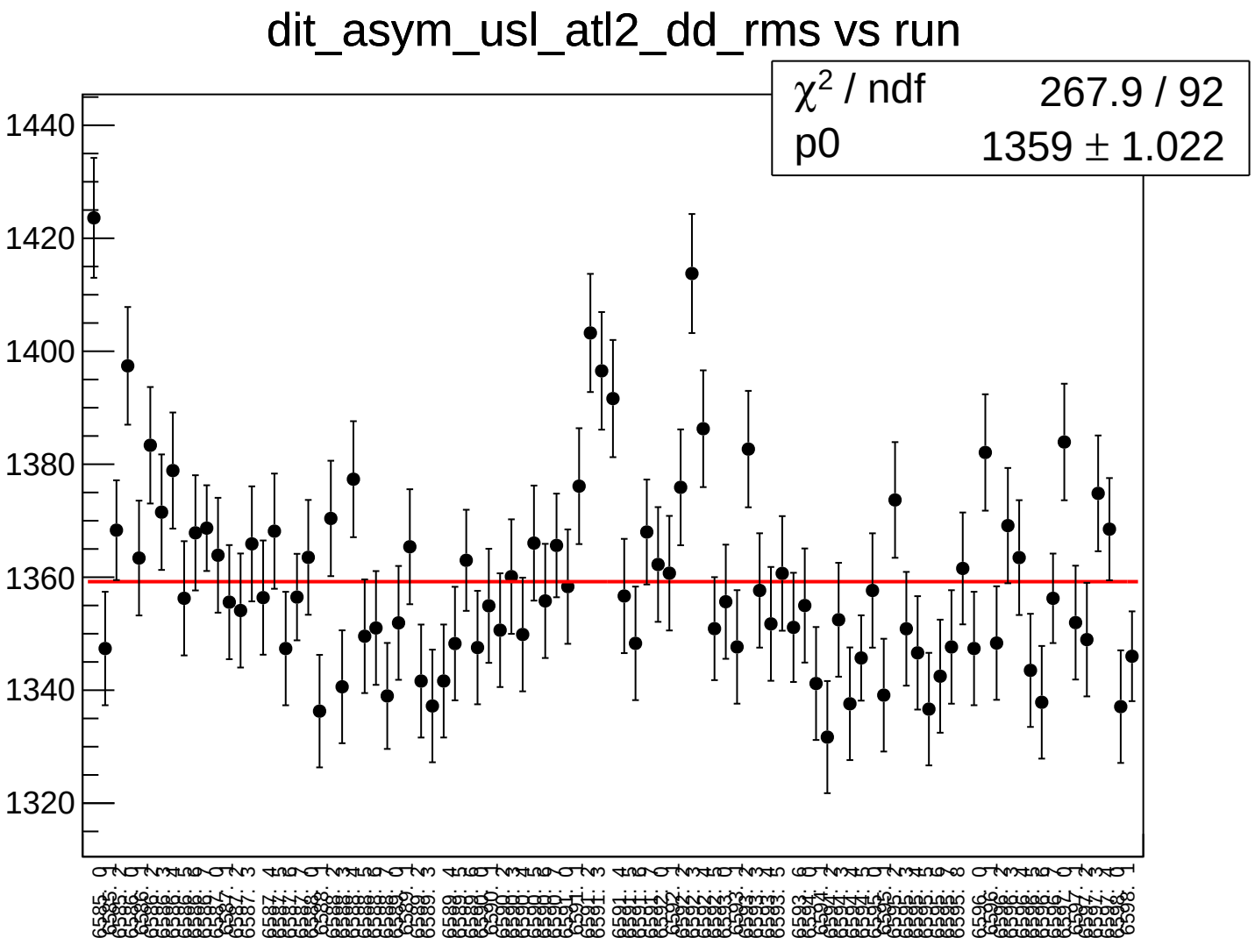

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.97 / 92
p0 −1934 ± 3840
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 173.7
Std Dev 277.7
2
1
0
−1
−2
−3

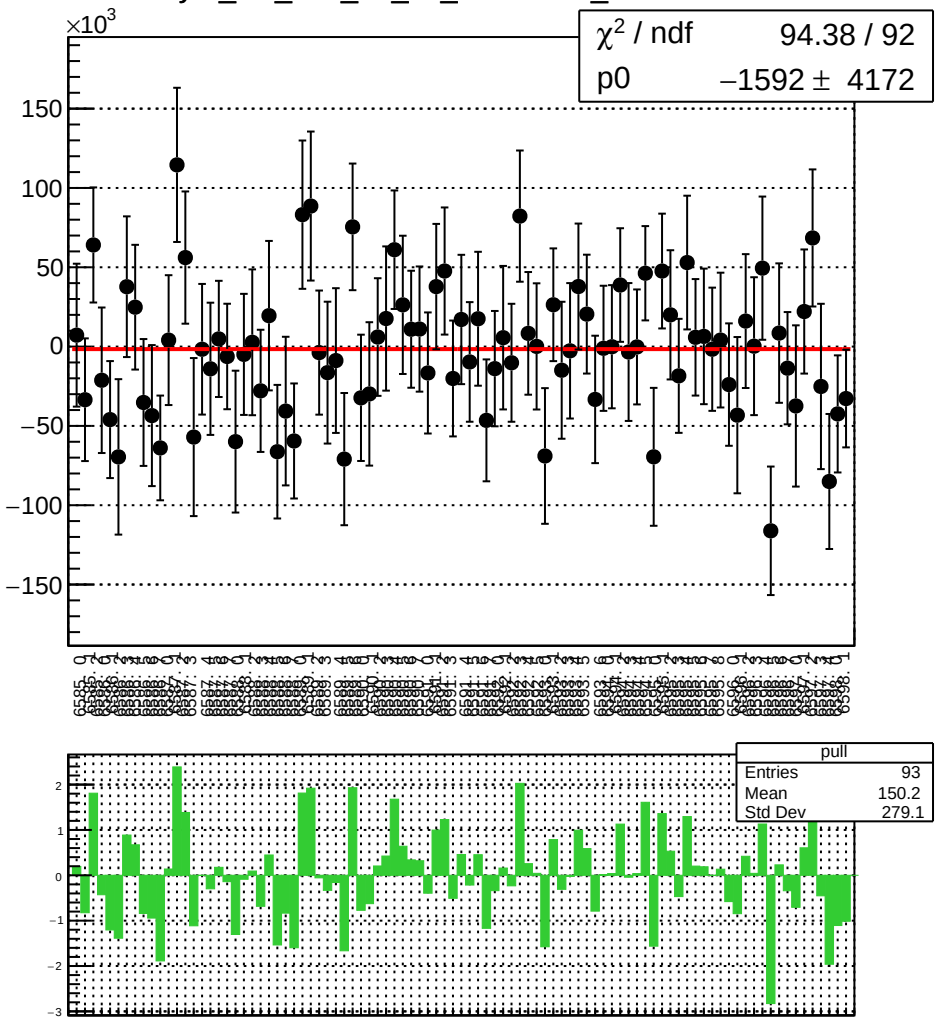

pull1D
Entries 93
Mean −0.001253
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

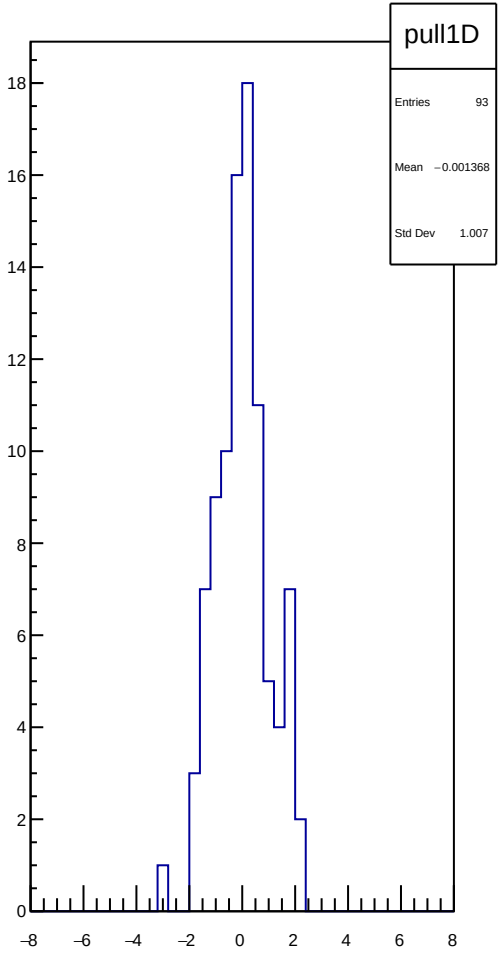

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.394e+04 / 92
p0 3599 ± 2.715
4600
4400
4200
4000
3800
3600
3400
3200
3000

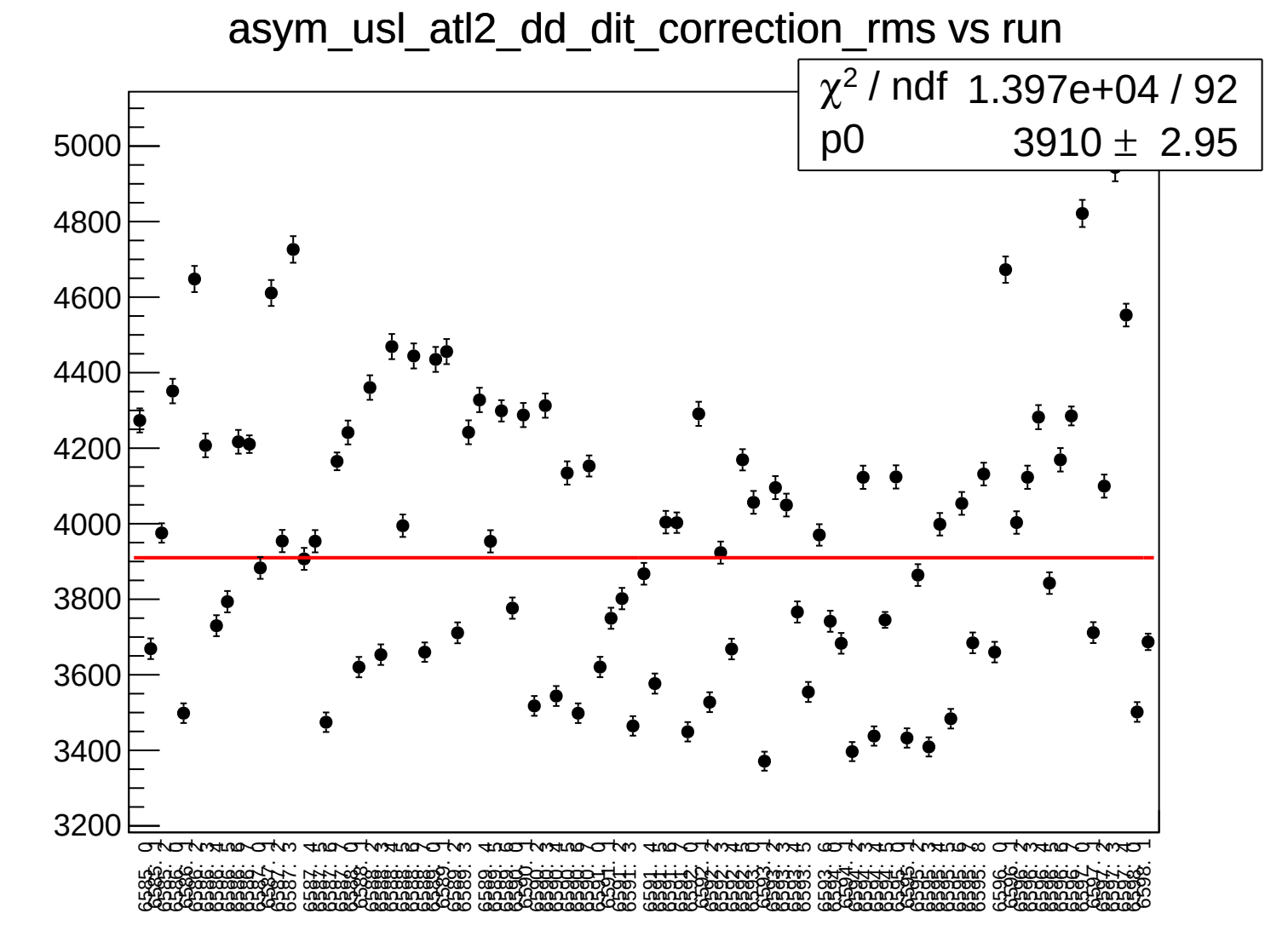

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 97.75 / 92
p0 1174 ± 1445
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2.047e+04
Std Dev 0
2
1
0
−1
−2

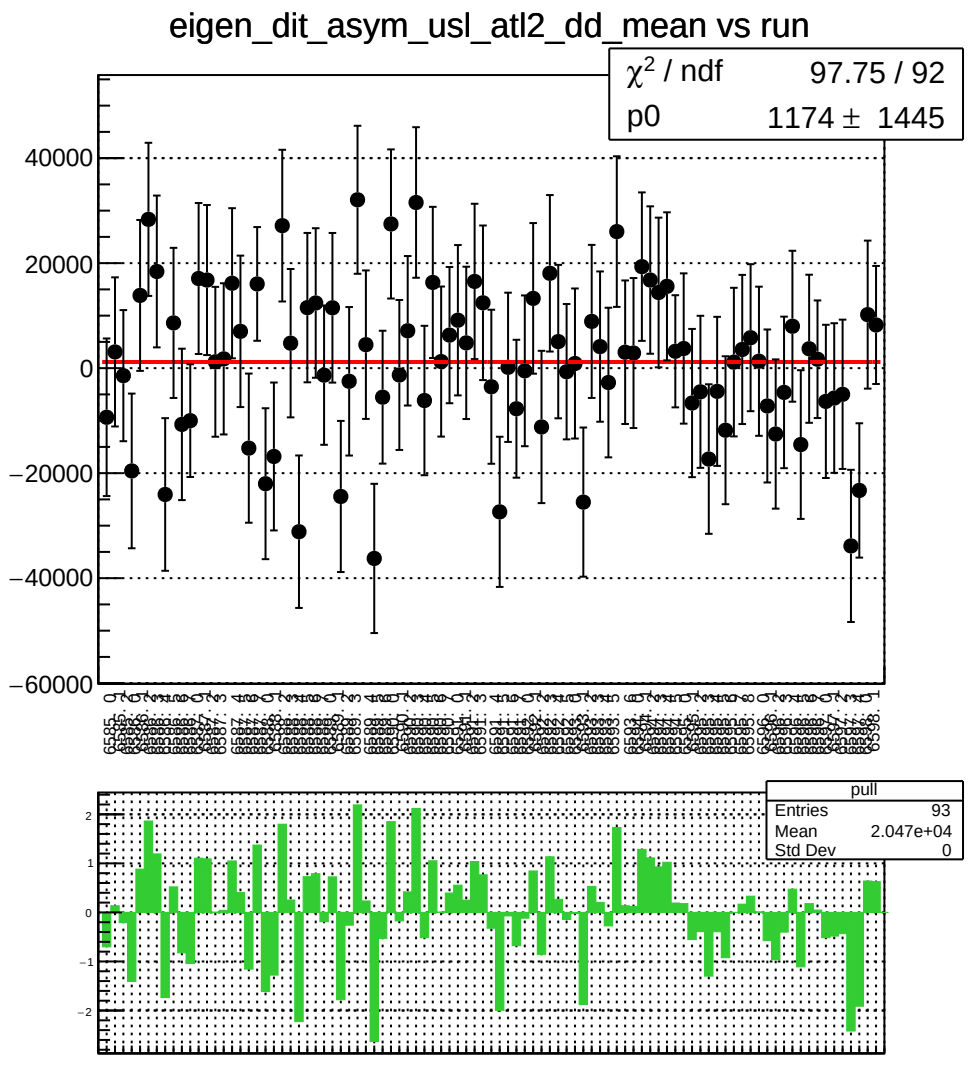

pull1D
Entries 93
Mean −0.0001539
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

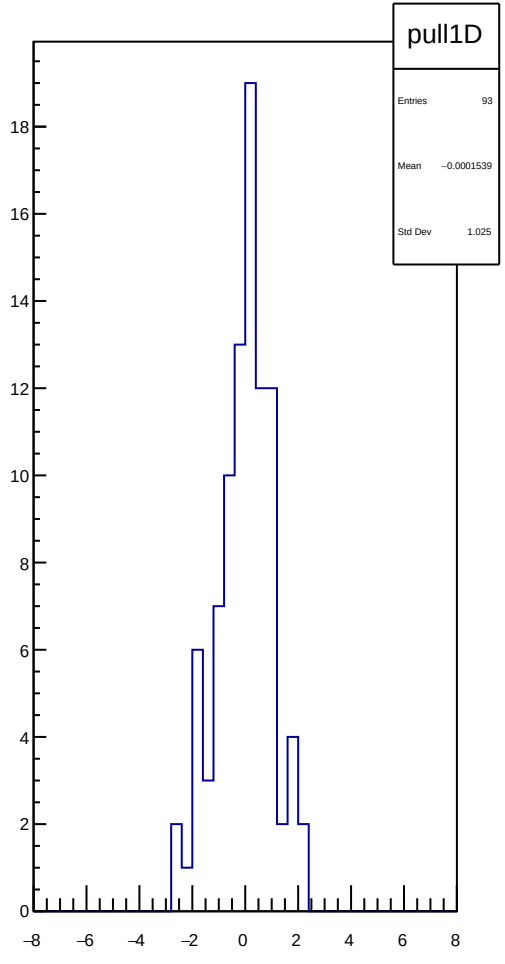

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 267.9 / 92
p0 1359 ± 1.022
1440
1420
1400
1380
1360
1340
1320


asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 94.38 / 92
p0 −1592 ± 4172
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 150.2
Std Dev 279.1
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.001368
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.397e+04 / 92
p0 3910 ± 2.95
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200


eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 97.75 / 92
p0 1174 ± 1445
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2.047e+04
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.0001539
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
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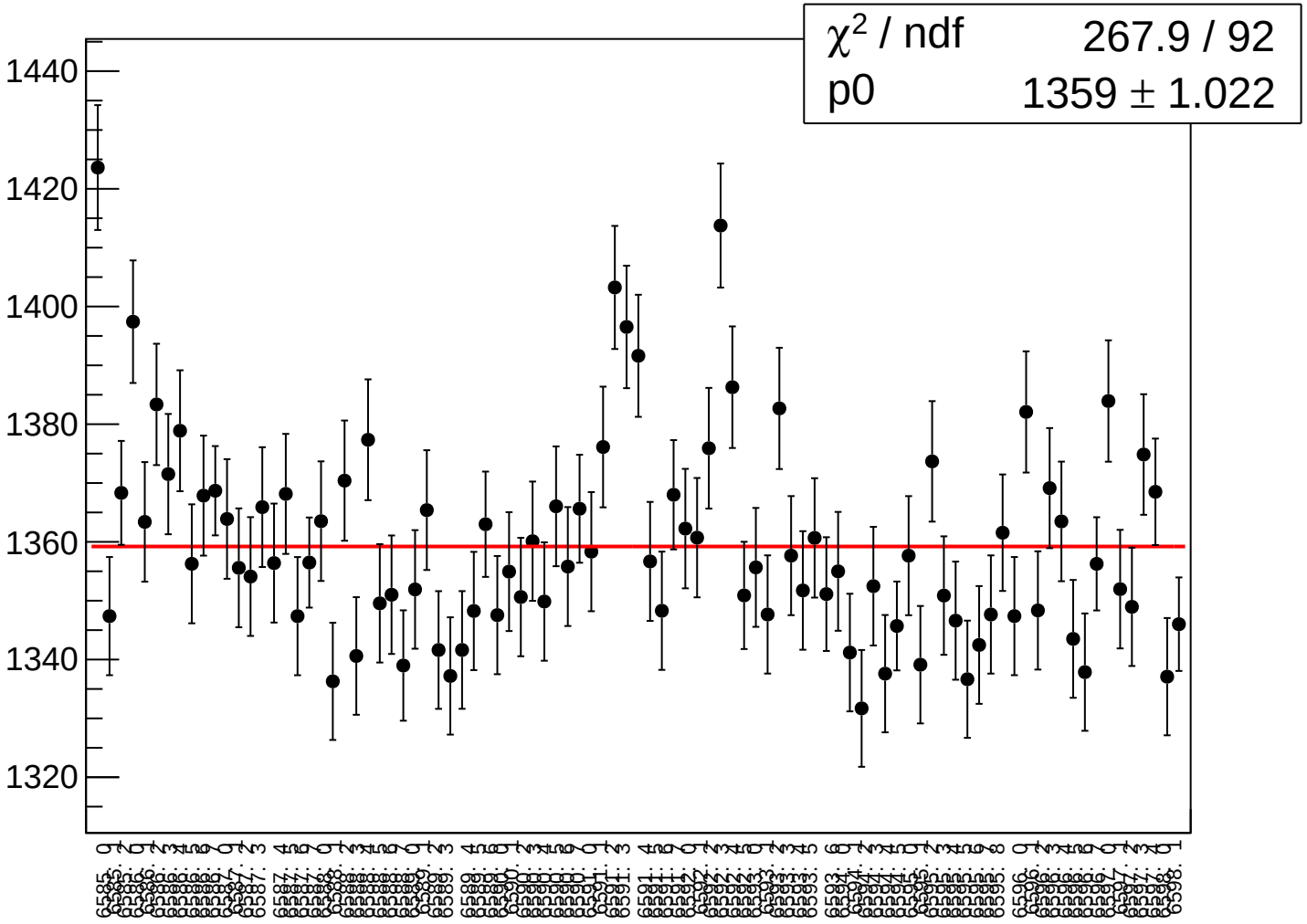
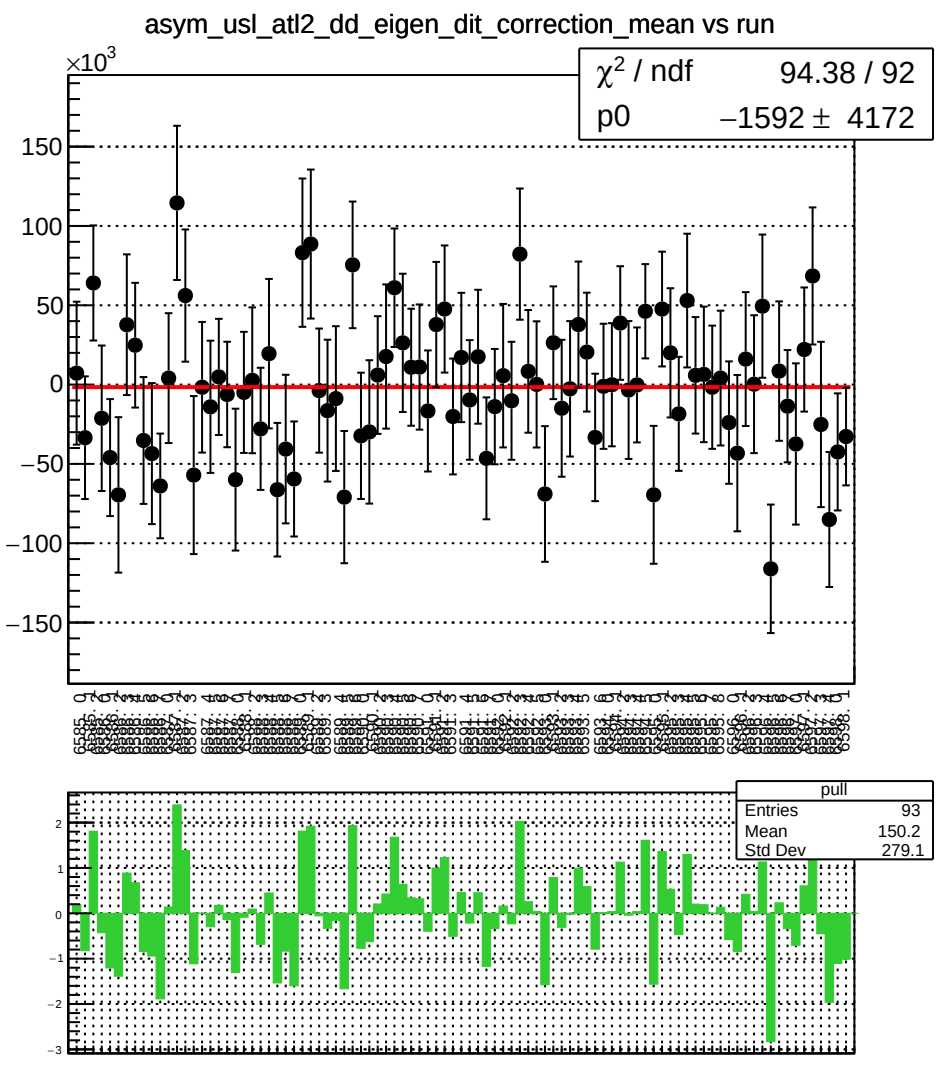
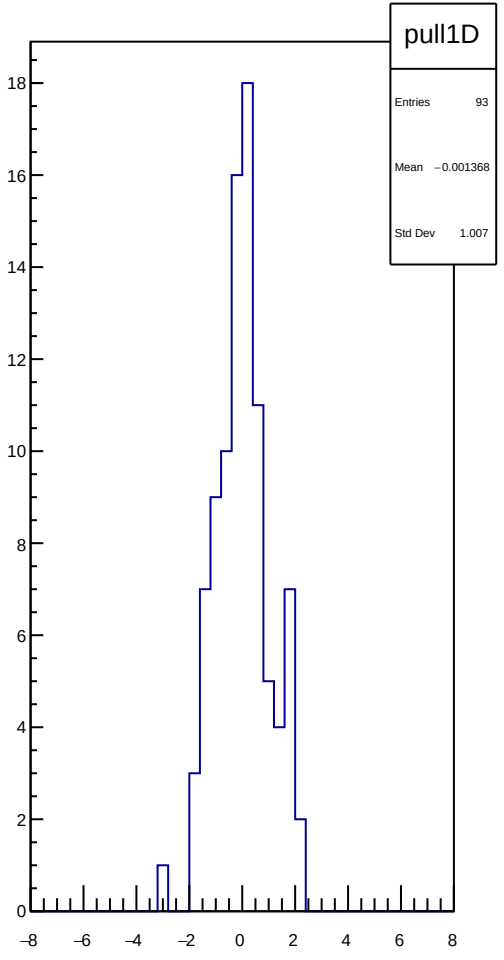
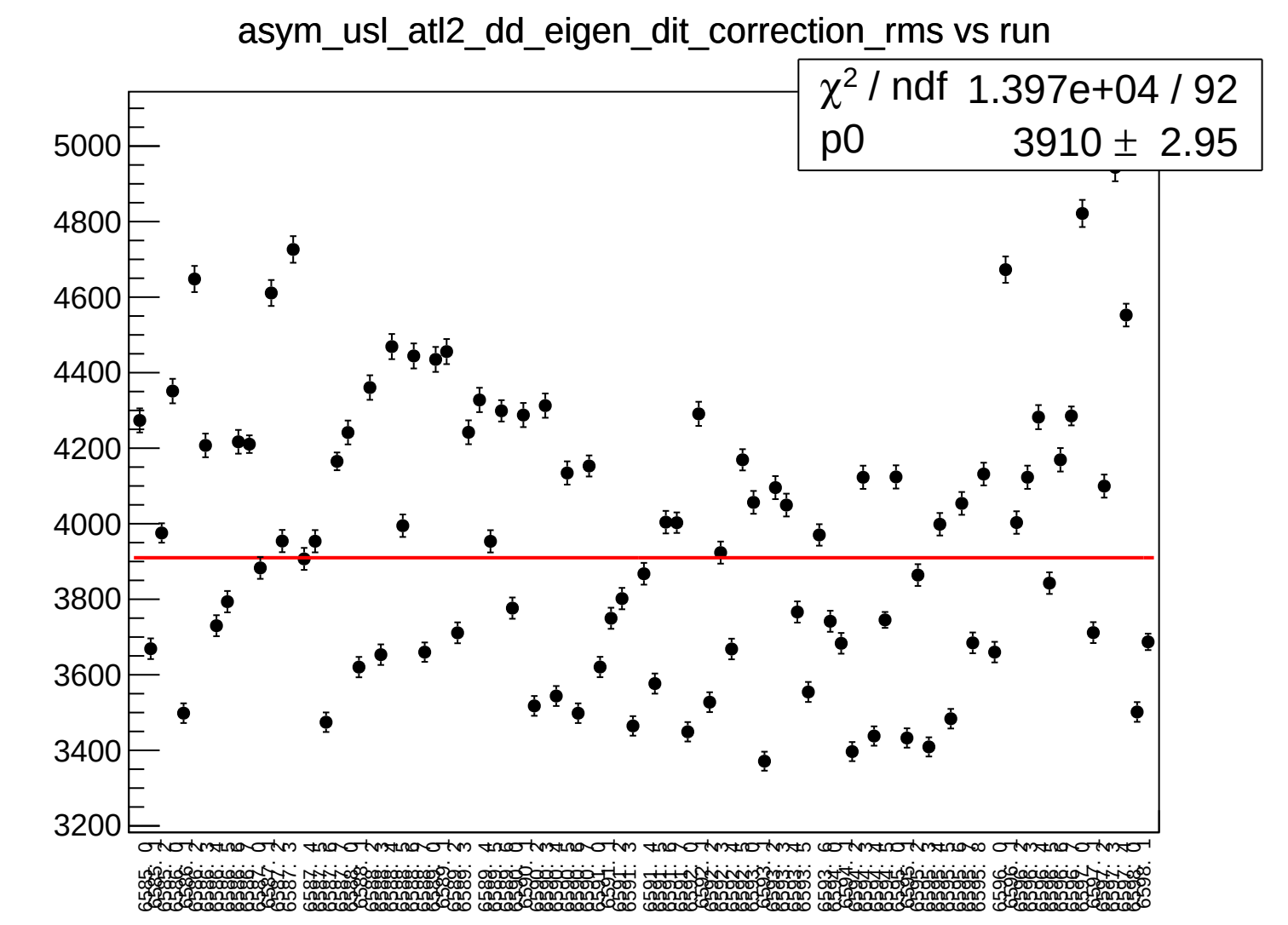
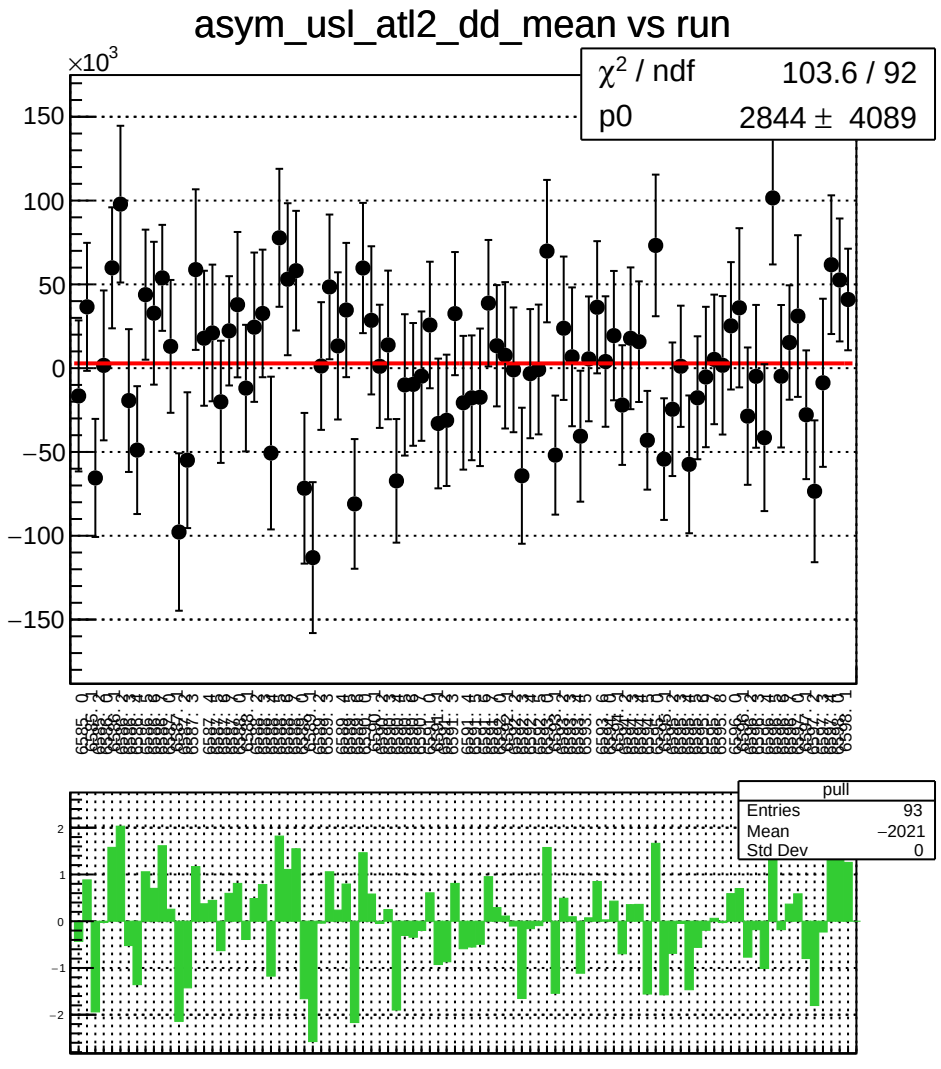
2
4
6
8

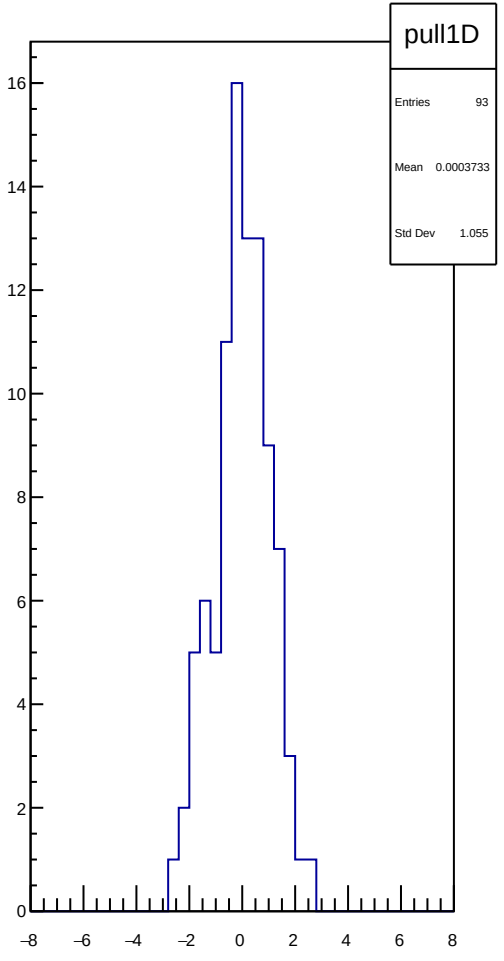

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 267.9 / 92
p0 1359 ± 1.022
1440
1420
1400
1380
1360
1340
1320

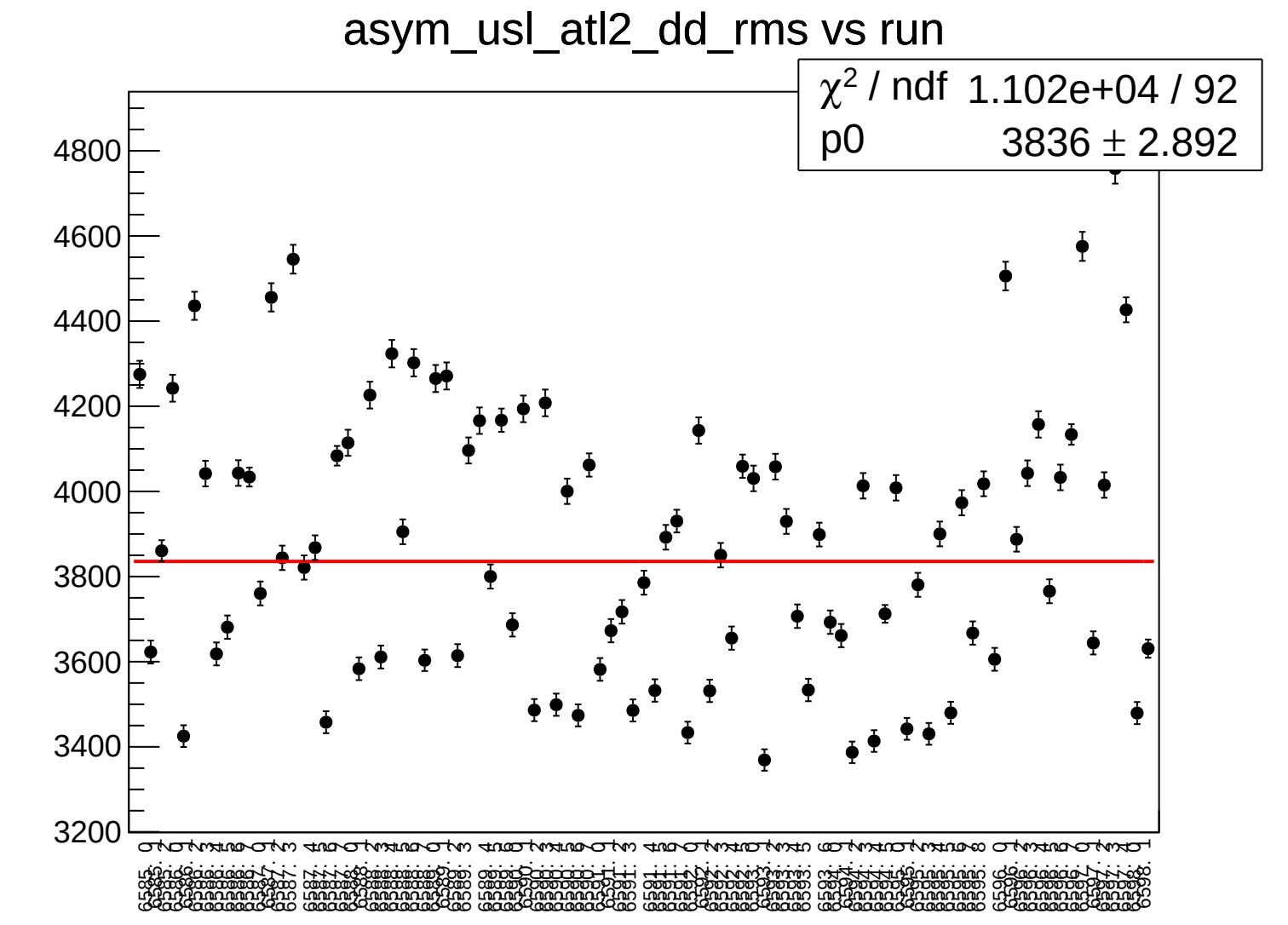

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.38 / 92
p0 −1592 ± 4172
×10³
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 150.2
Std Dev 279.1
2
1
0
−1
−2
−3

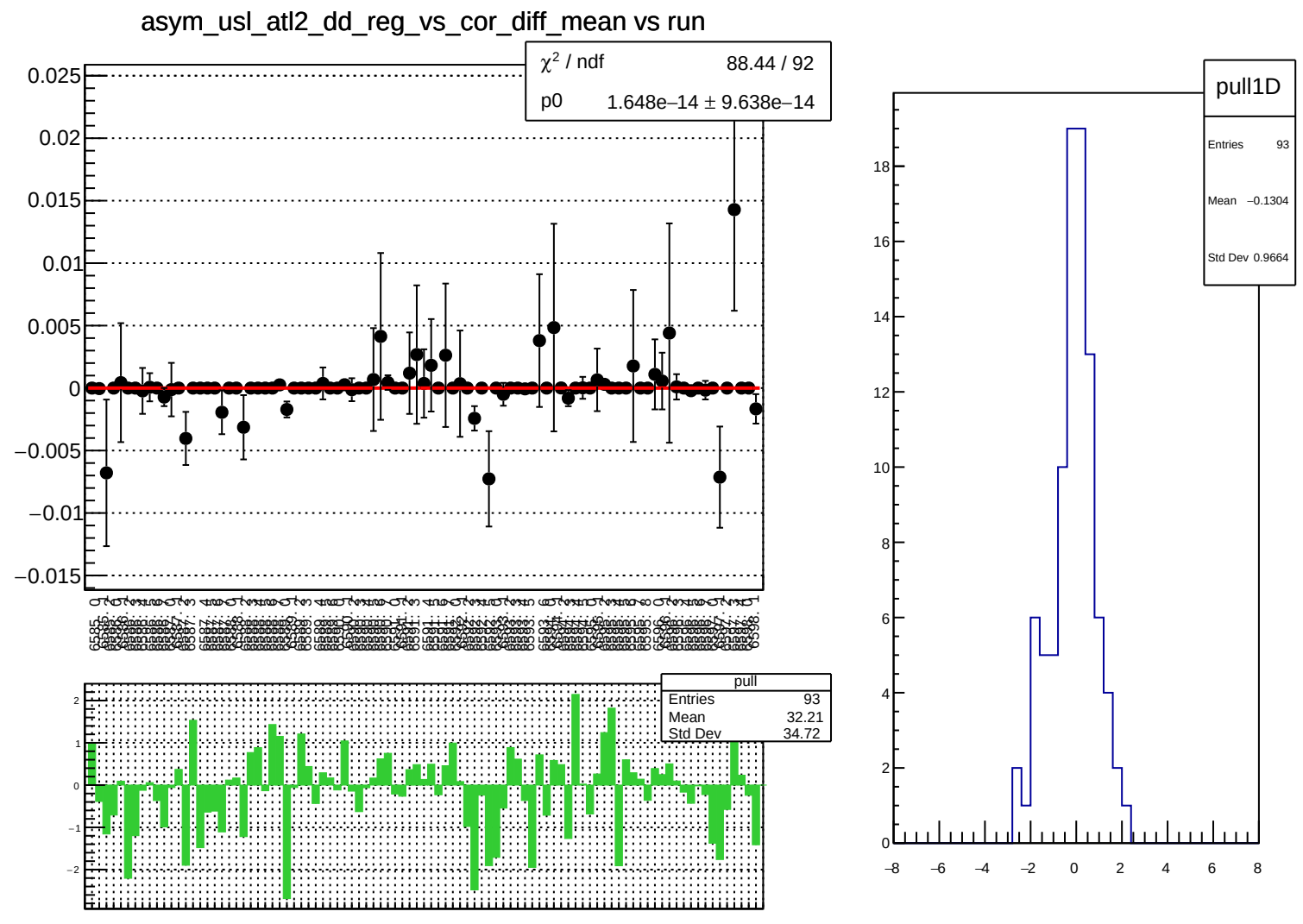

pull1D
Entries 93
Mean −0.001368
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

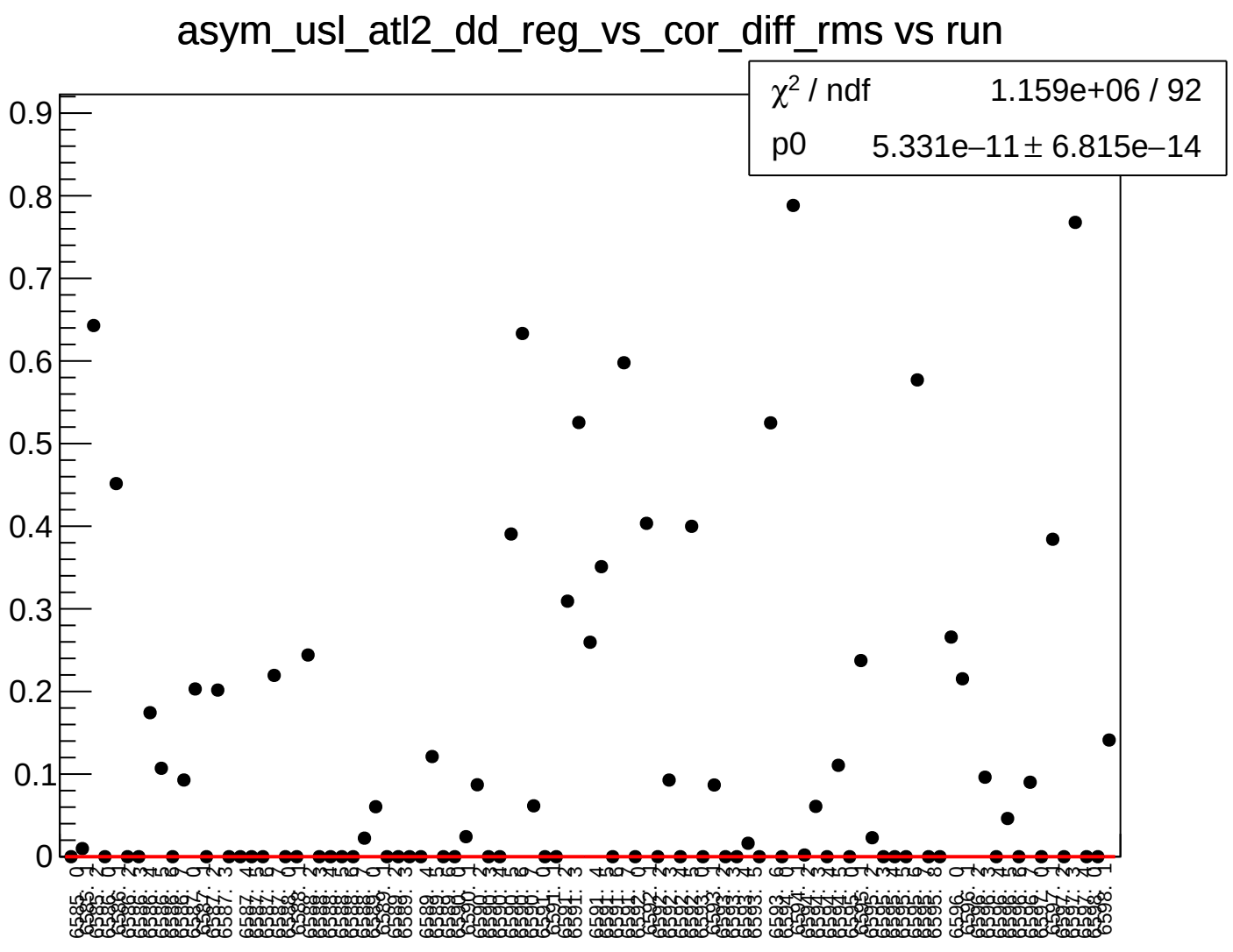

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.397e+04 / 92
p0 3910 ± 2.95
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

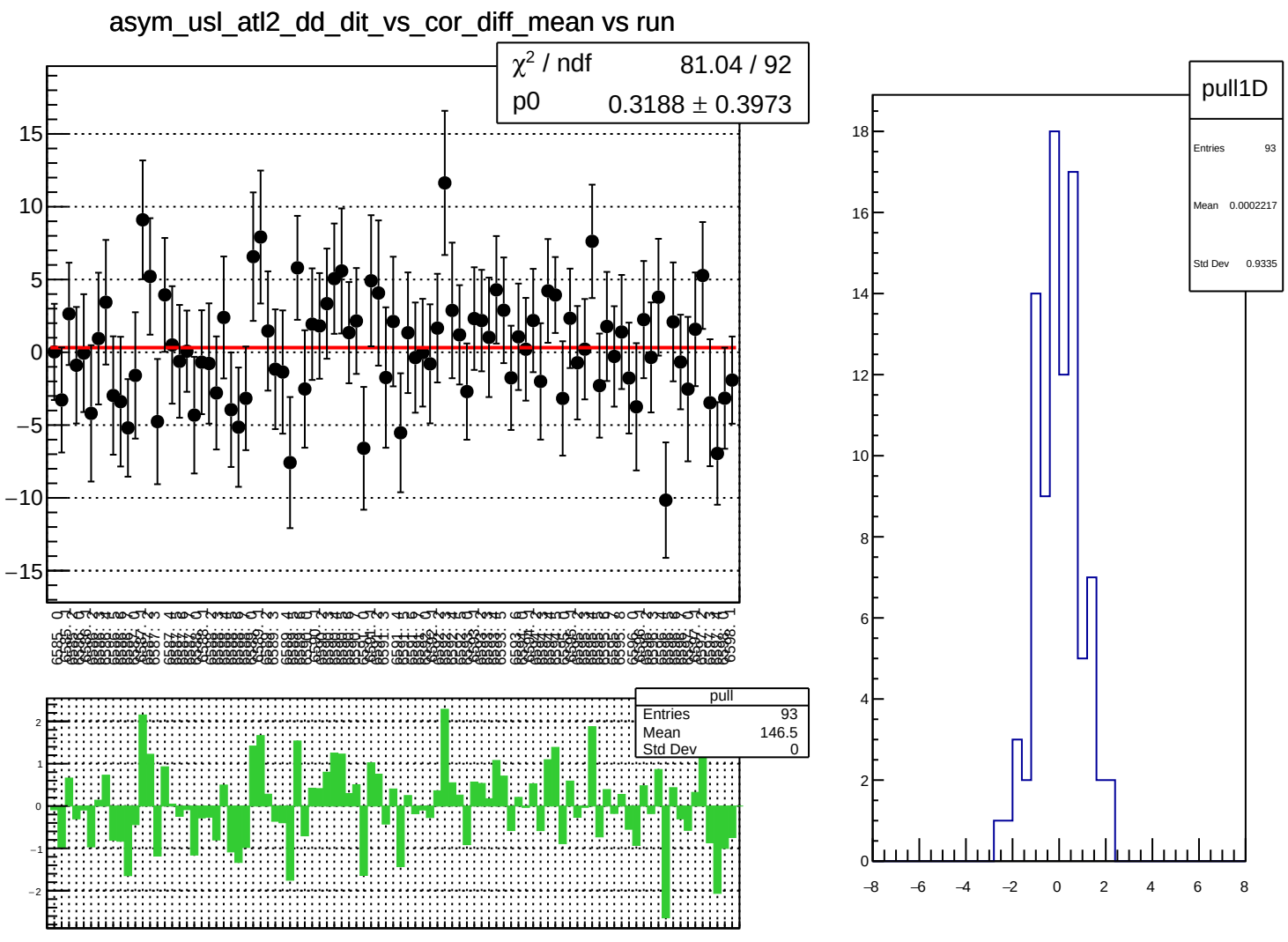

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 103.6 / 92
p0 2844 ± 4089
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −2021
Std Dev 0
2
1
0
−1
−2

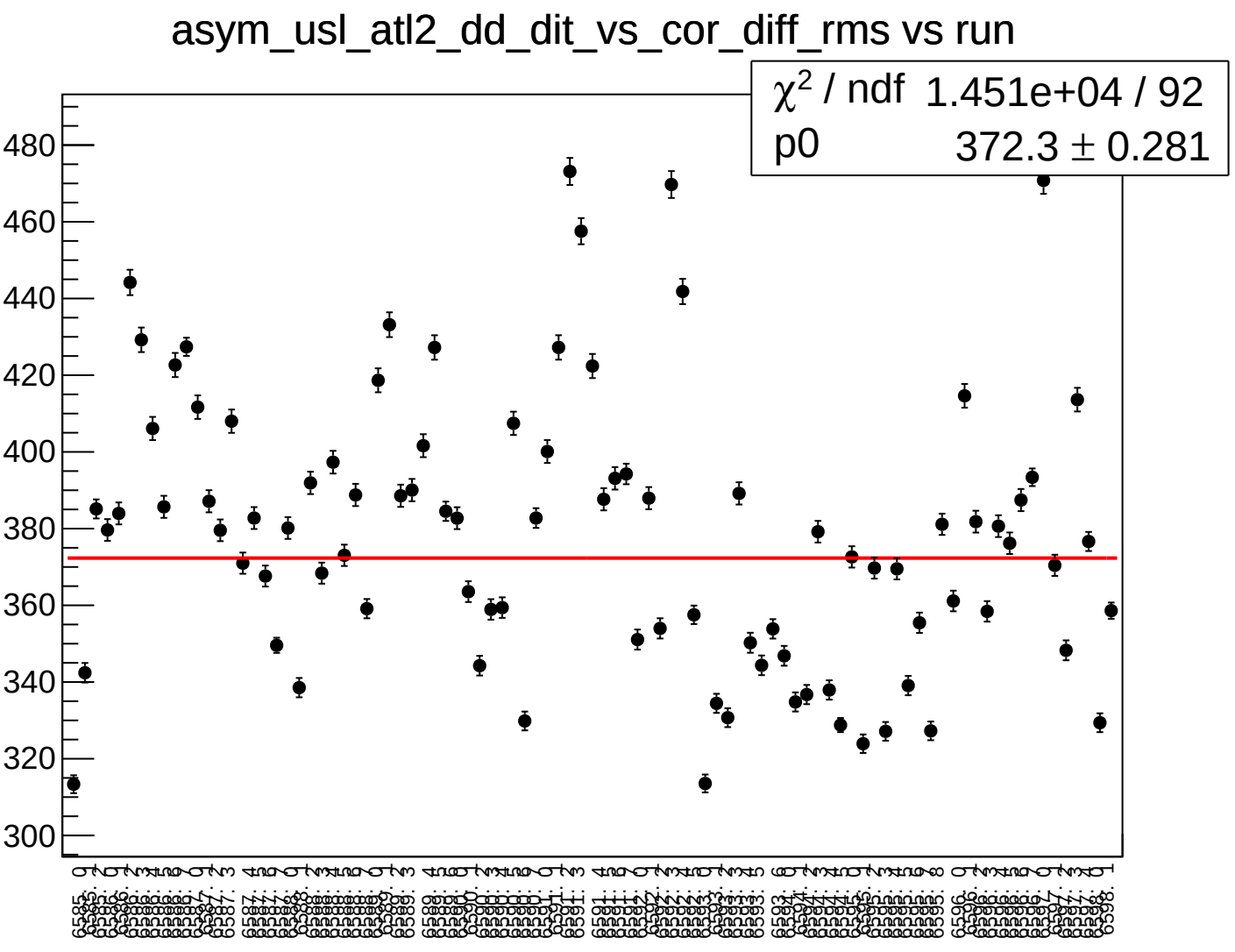

pull1D
Entries 93
Mean 0.0003733
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

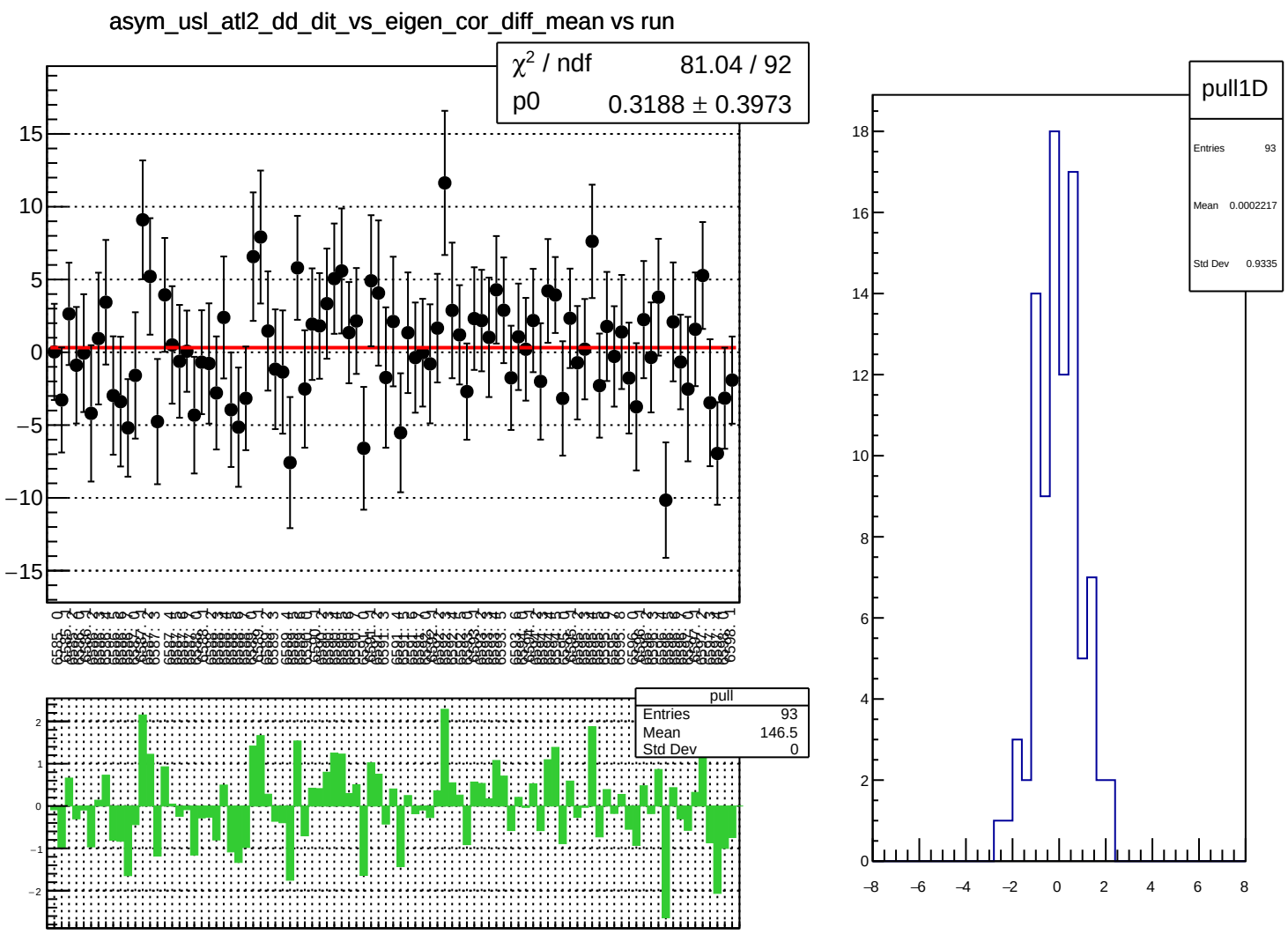

asym_usl_atl2_dd_rms vs run
χ² / ndf 1.102e+04 / 92
p0 3836 ± 2.892
4800
4600
4400
4200
4000
3800
3600
3400
3200

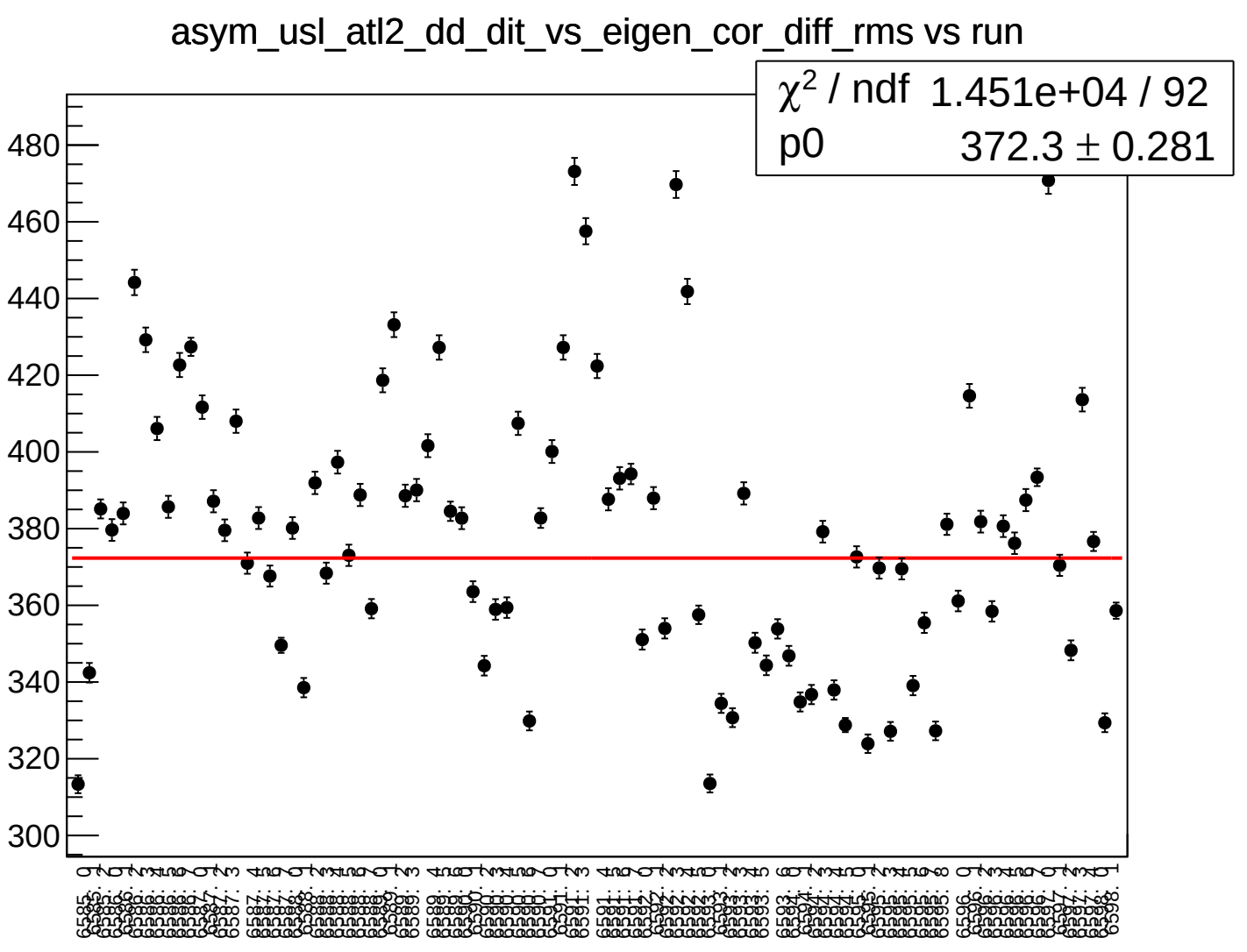

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.44 / 92
p0 1.648e−14 ± 9.638e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 32.21
Std Dev 34.72
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.1304
Std Dev 0.9664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

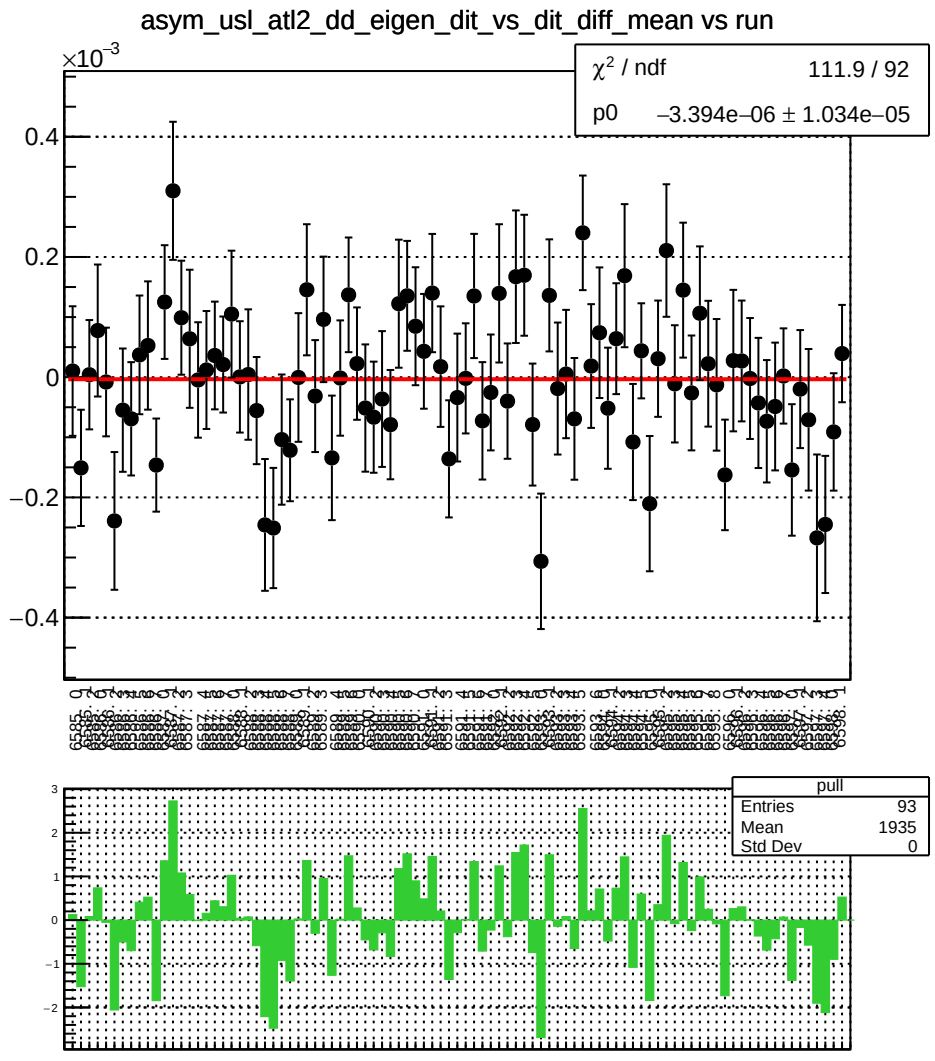

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.159e+06 / 92
p0 5.331e−11 ± 6.815e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

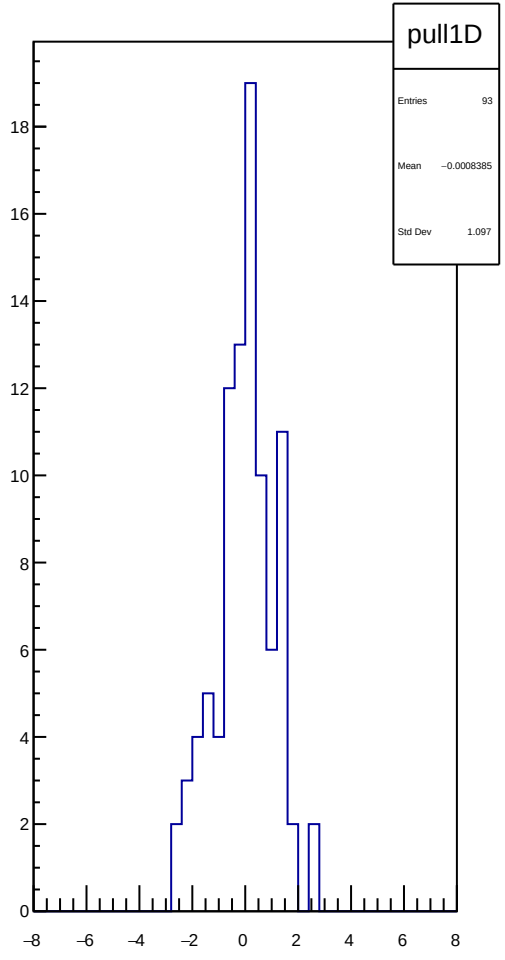

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.04 / 92
p0 0.3188 ± 0.3973
pull
Entries 93
Mean 146.5
Std Dev 0
pull1D
Entries 93
Mean 0.0002217
Std Dev 0.9335

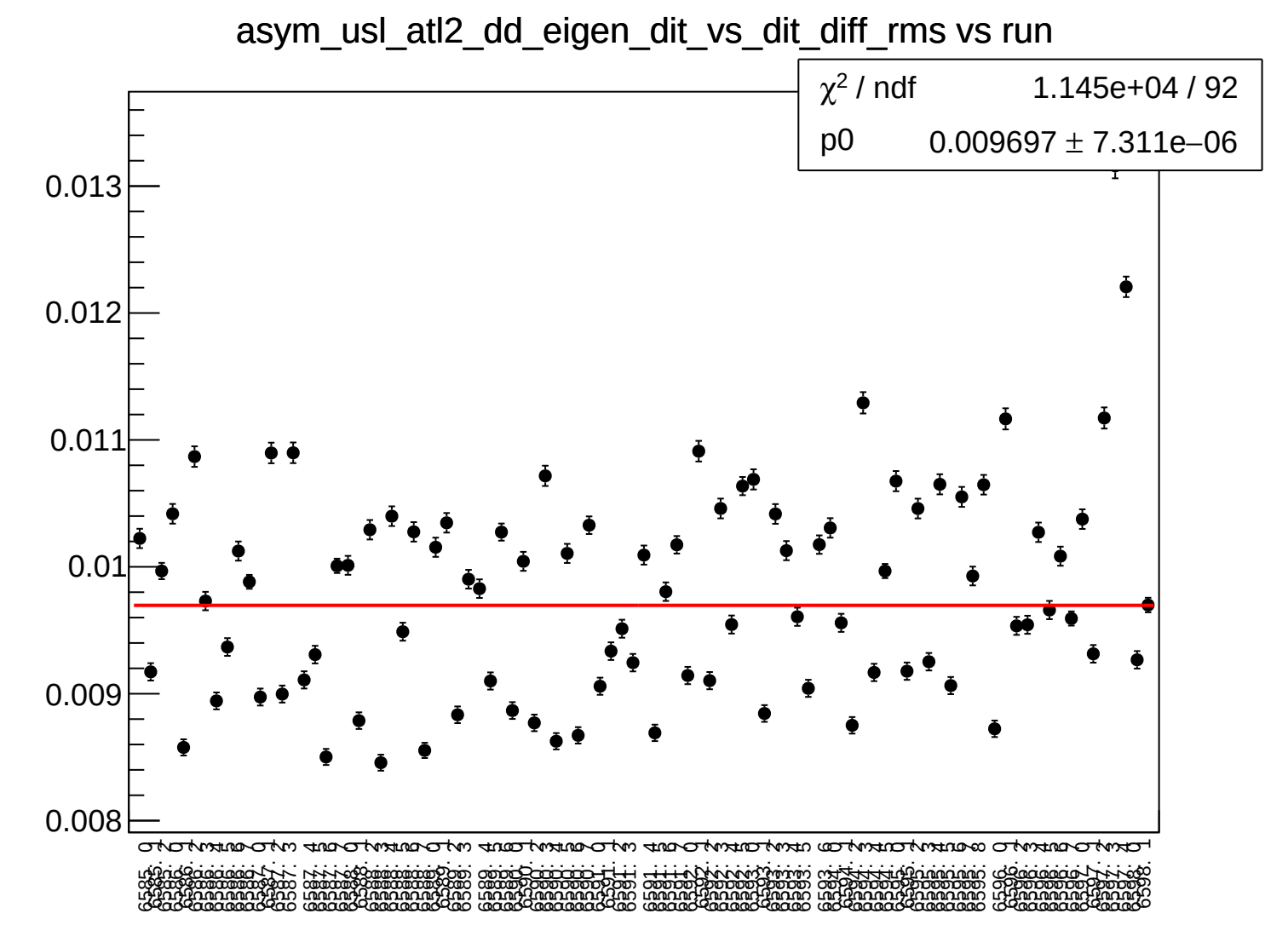

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 92
p0 372.3 ± 0.281
480
460
440
420
400
380
360
340
320
300

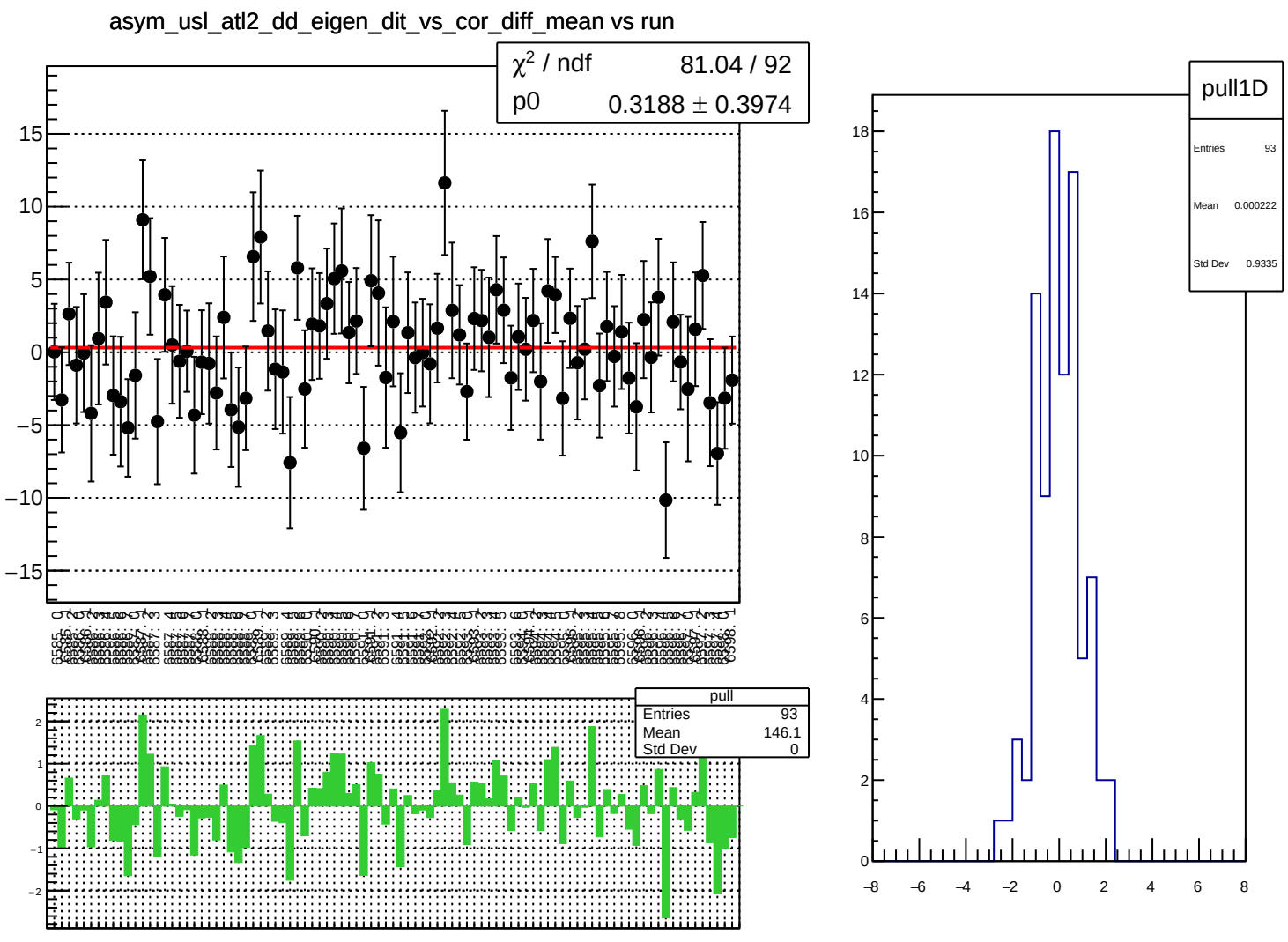

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.04 / 92
p0 0.3188 ± 0.3973
pull
Entries 93
Mean 146.5
Std Dev 0
pull1D
Entries 93
Mean 0.0002217
Std Dev 0.9335

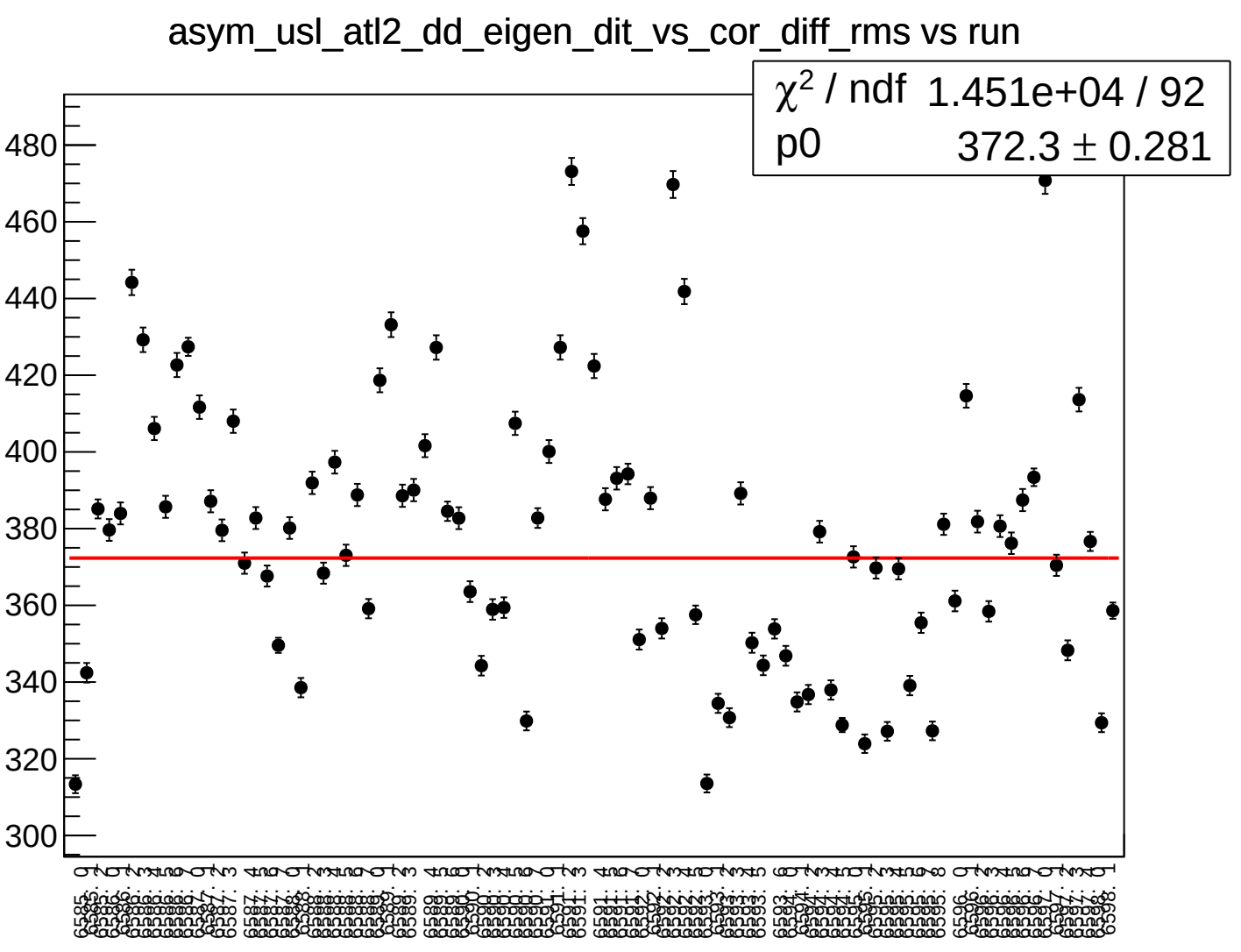

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 92
p0 372.3 ± 0.281
480
460
440
420
400
380
360
340
320
300

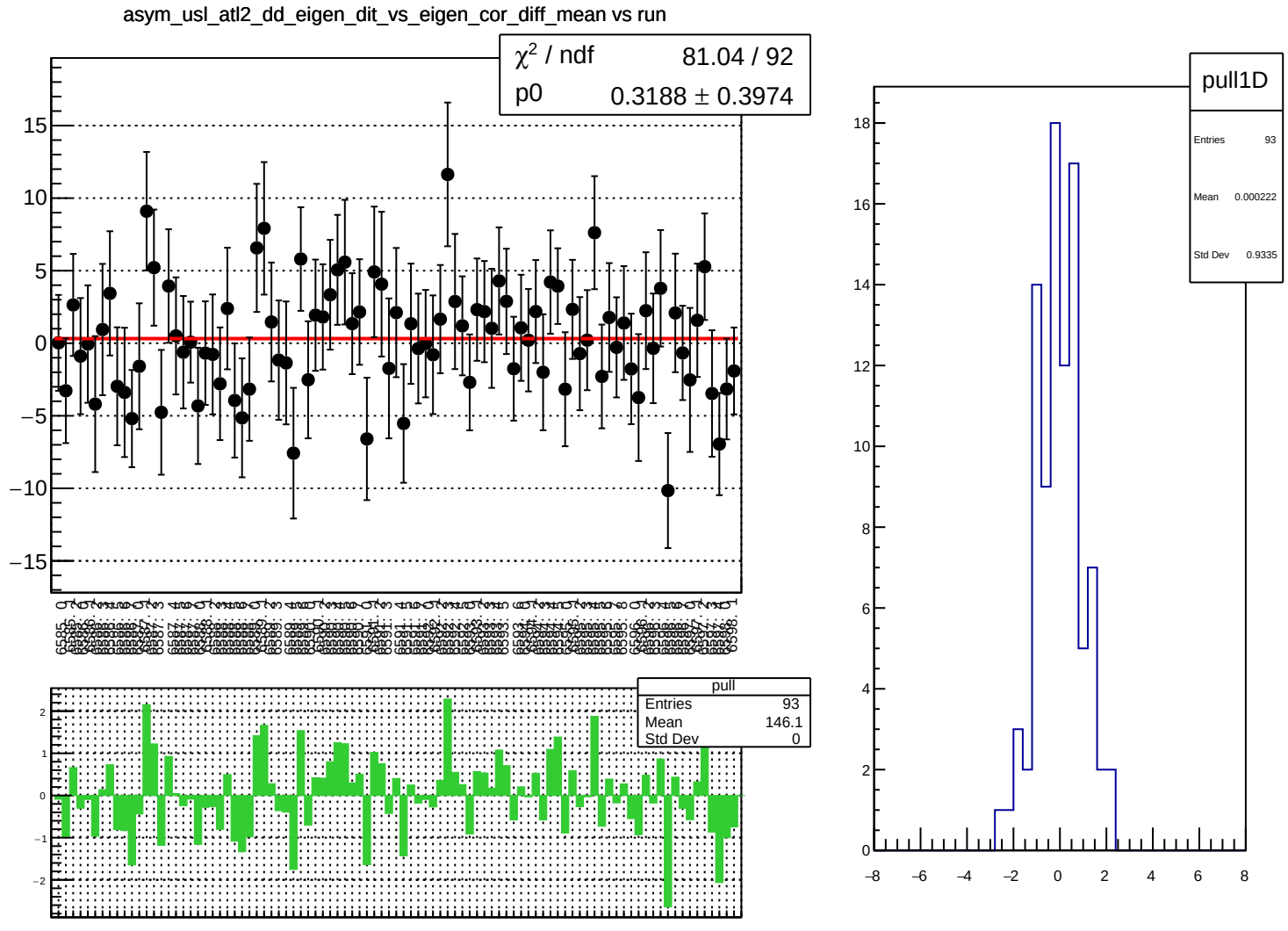

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.9 / 92
p0 −3.394e−06 ± 1.034e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 1935
Std Dev 0
3
2
1
0
−1
−2

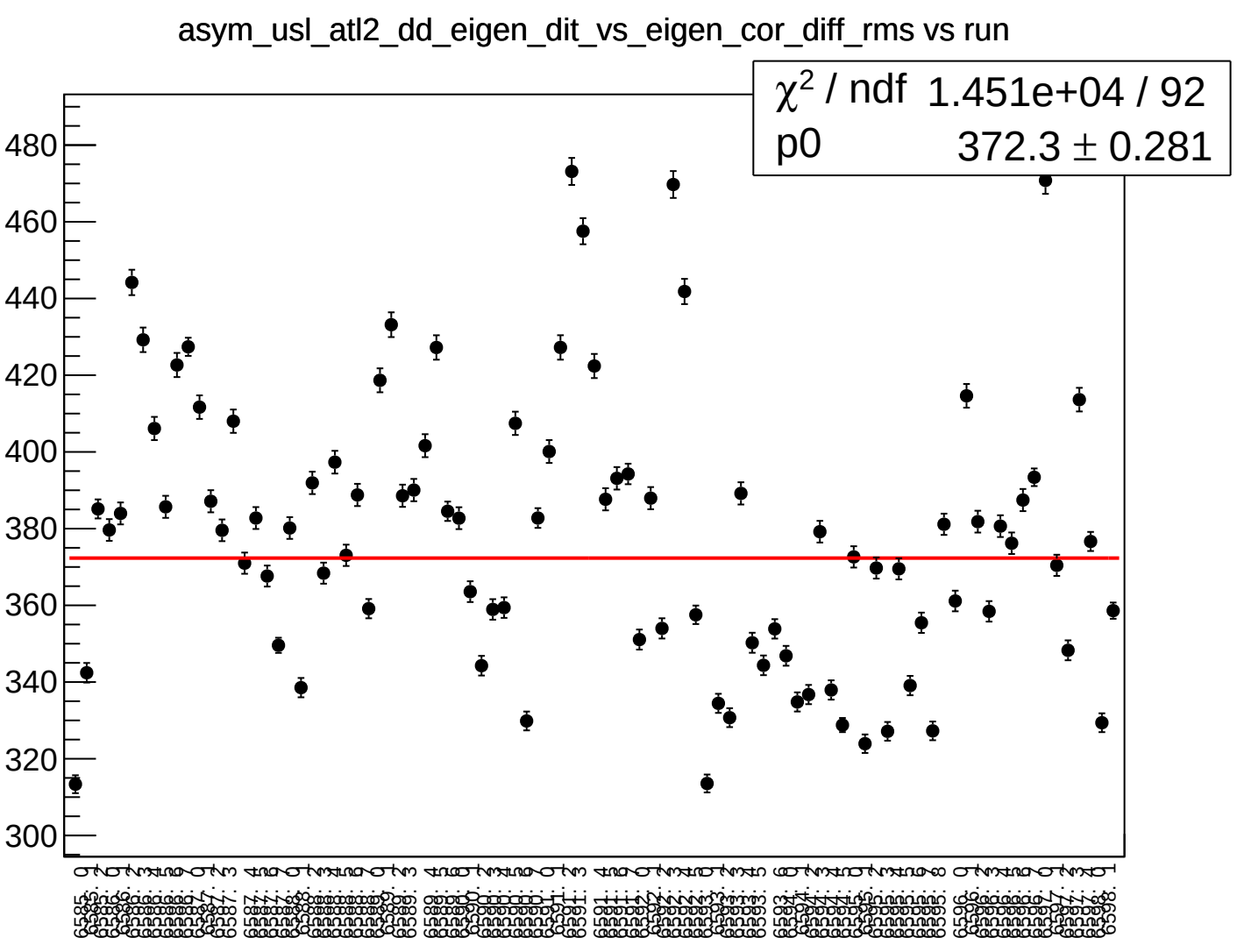

pull1D
Entries 93
Mean −0.0008385
Std Dev 1.097
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

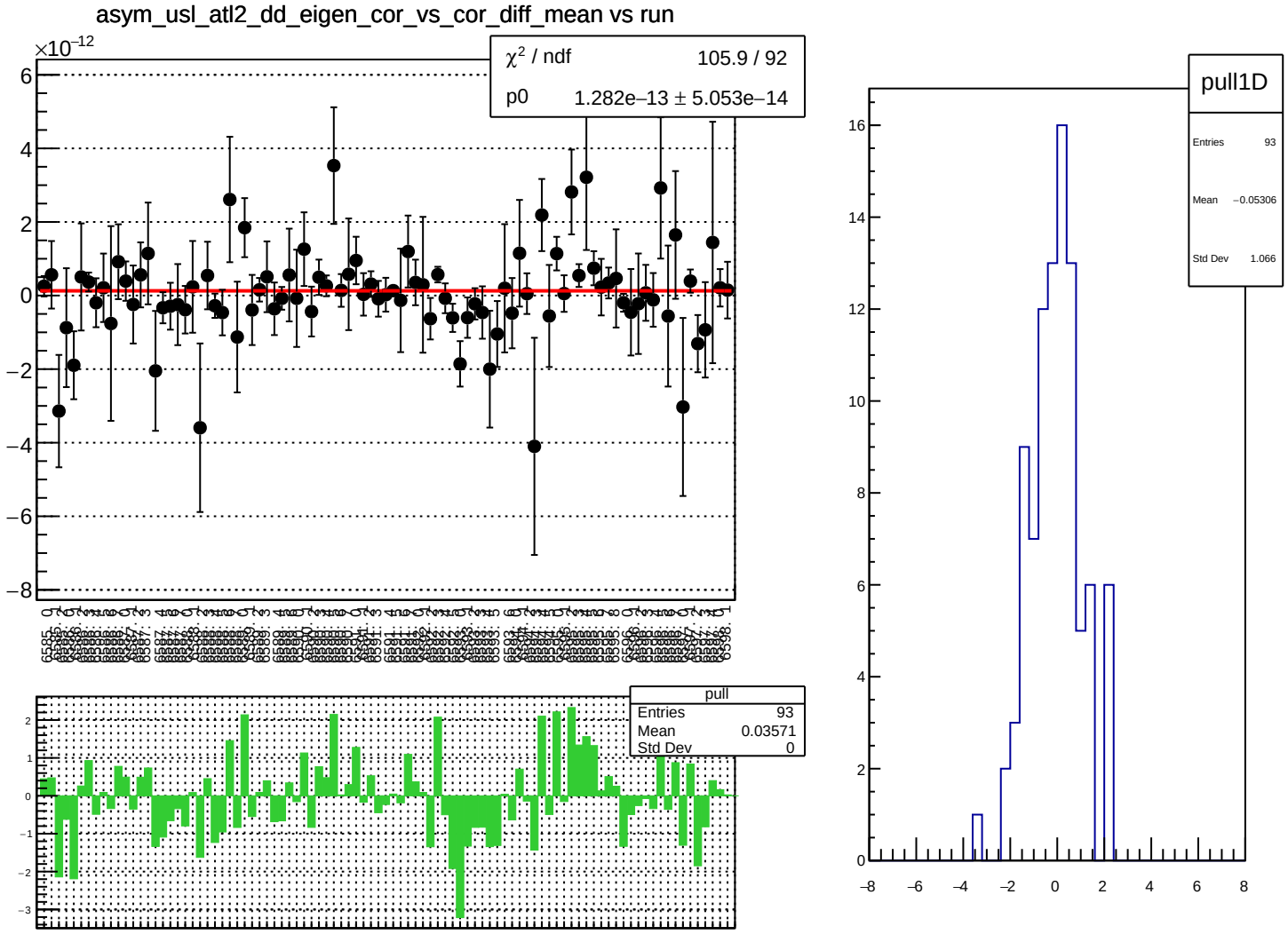

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.145e+04 / 92
p0 0.009697 ± 7.311e−06
0.013
0.012
0.011
0.01
0.009
0.008

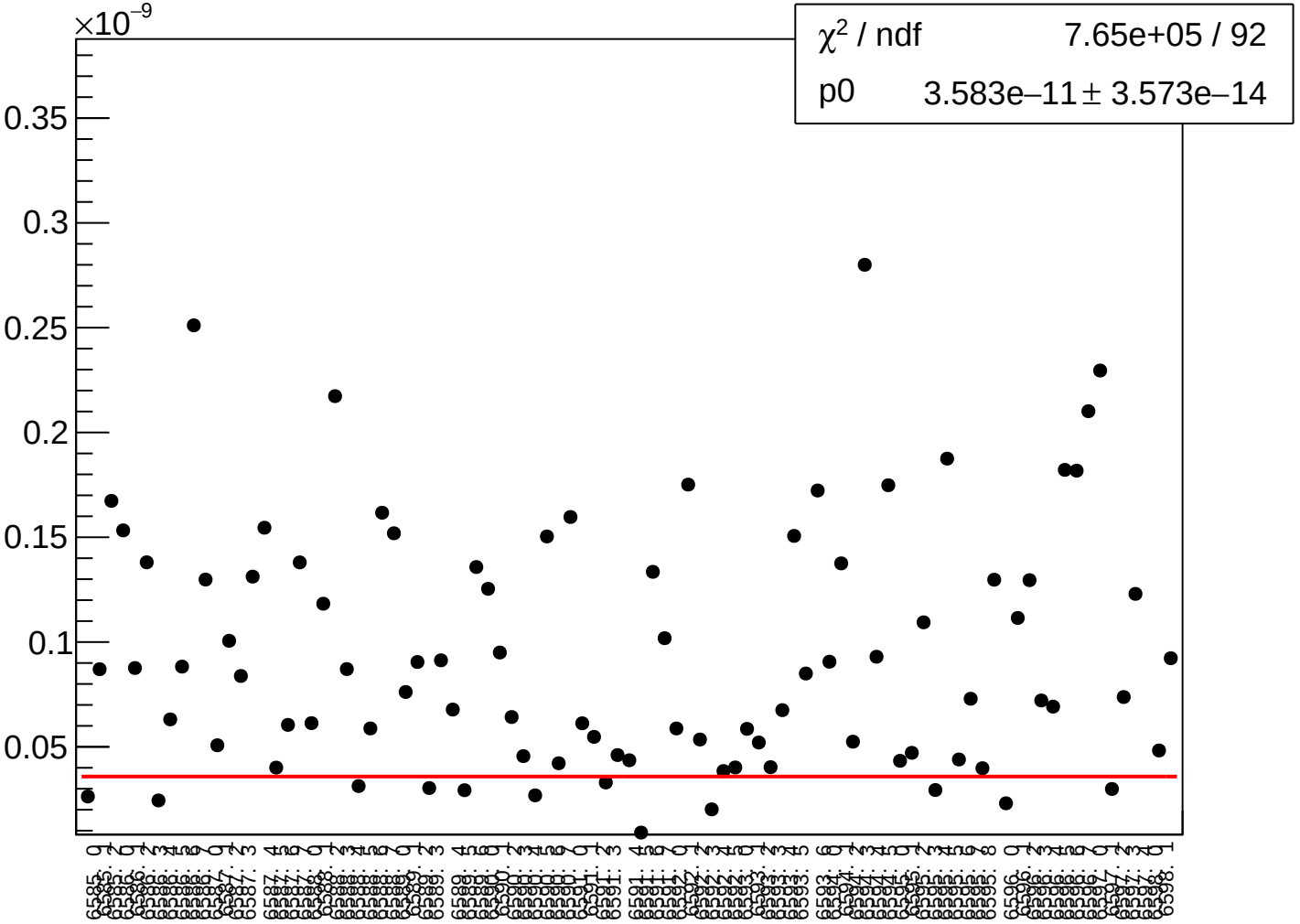

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.04 / 92
p0 0.3188 ± 0.3974
pull
Entries 93
Mean 146.1
Std Dev 0
pull1D
Entries 93
Mean 0.000222
Std Dev 0.9335

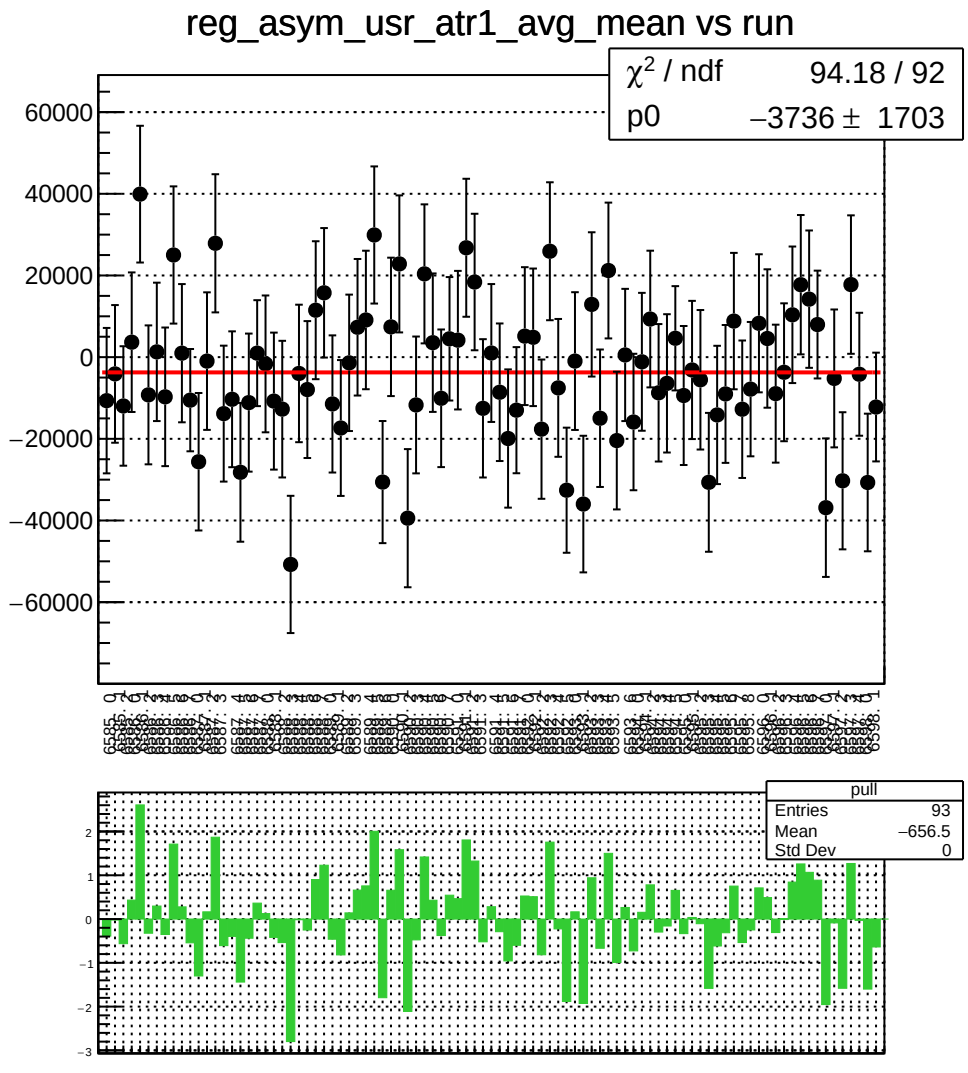

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 92
p0 372.3 ± 0.281
480
460
440
420
400
380
360
340
320
300

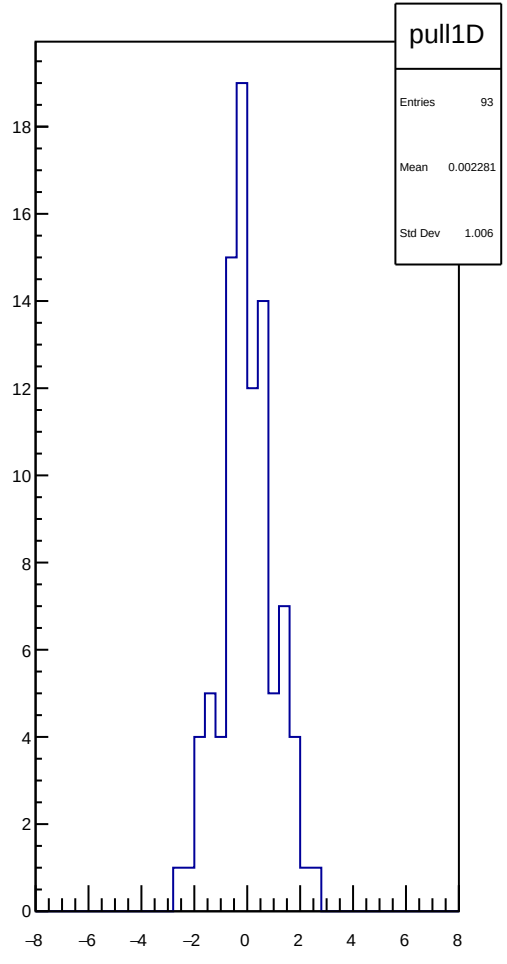

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.04 / 92
p0 0.3188 ± 0.3974
pull
Entries 93
Mean 146.1
Std Dev 0
pull1D
Entries 93
Mean 0.000222
Std Dev 0.9335

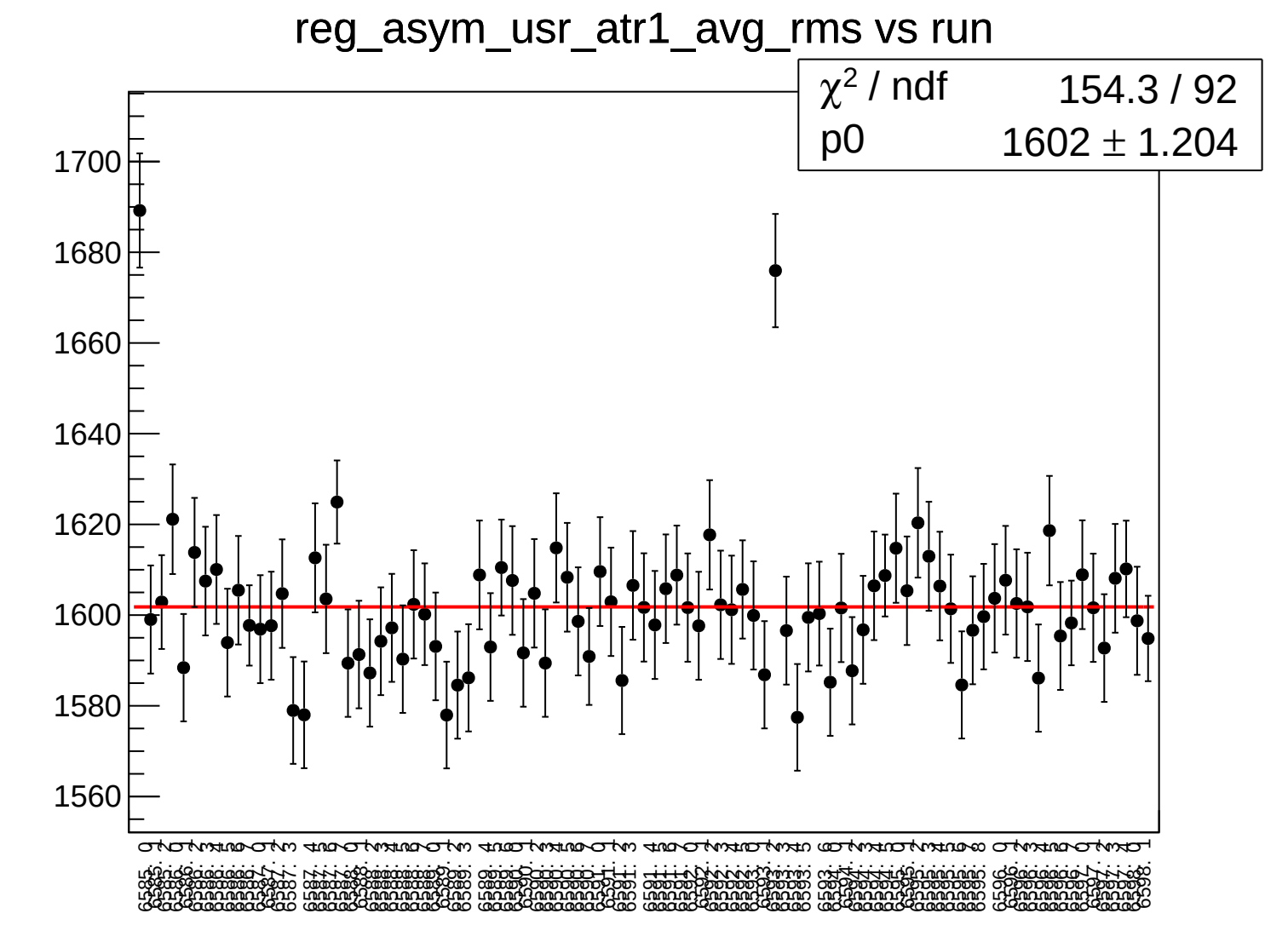

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.451e+04 / 92
p0 372.3 ± 0.281
480
460
440
420
400
380
360
340
320
300

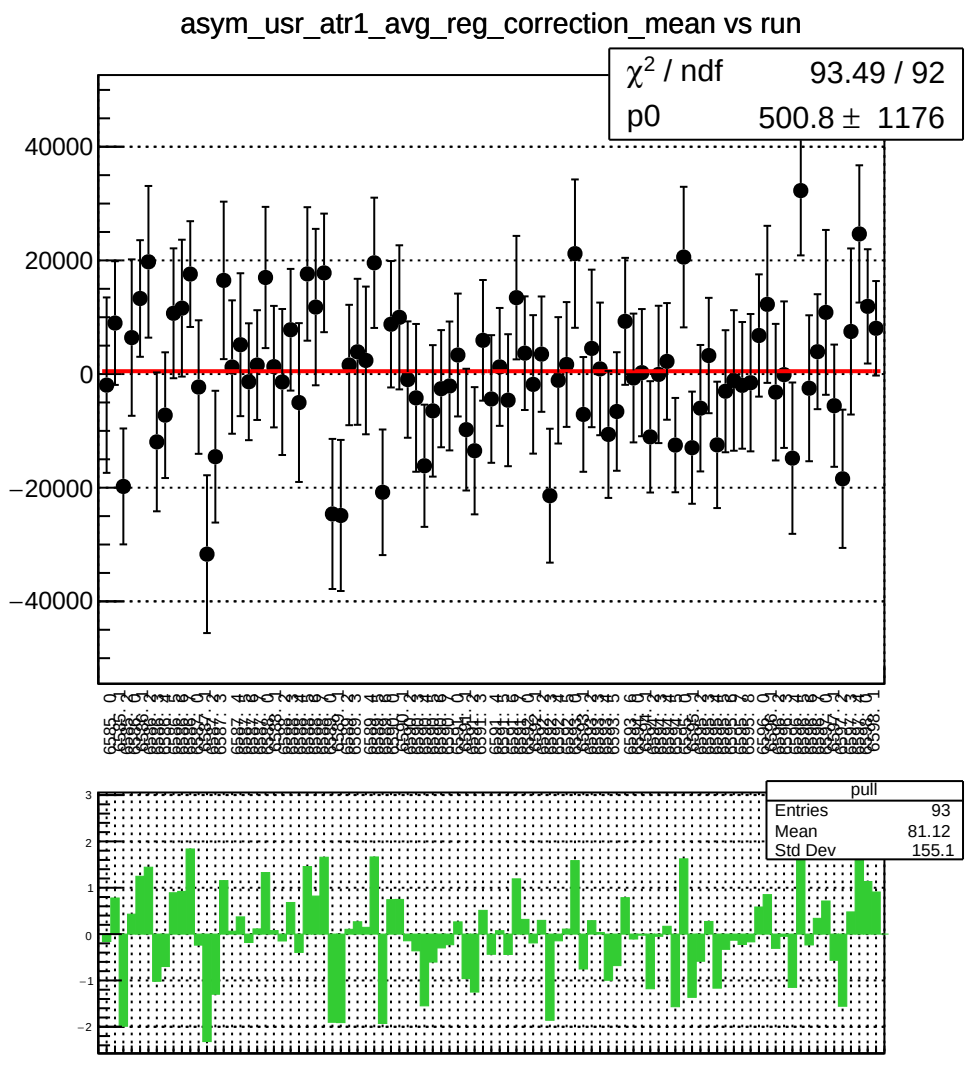

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.9 / 92
p0 1.282e−13 ± 5.053e−14
pull
Entries 93
Mean 0.03571
Std Dev 0
pull1D
Entries 93
Mean −0.05306
Std Dev 1.066

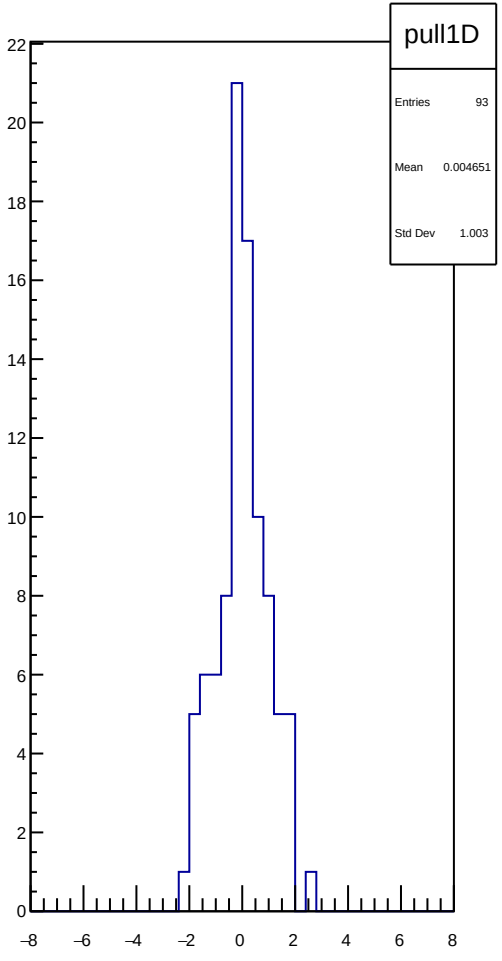

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.65e+05 / 92
p0 3.583e−11 ± 3.573e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

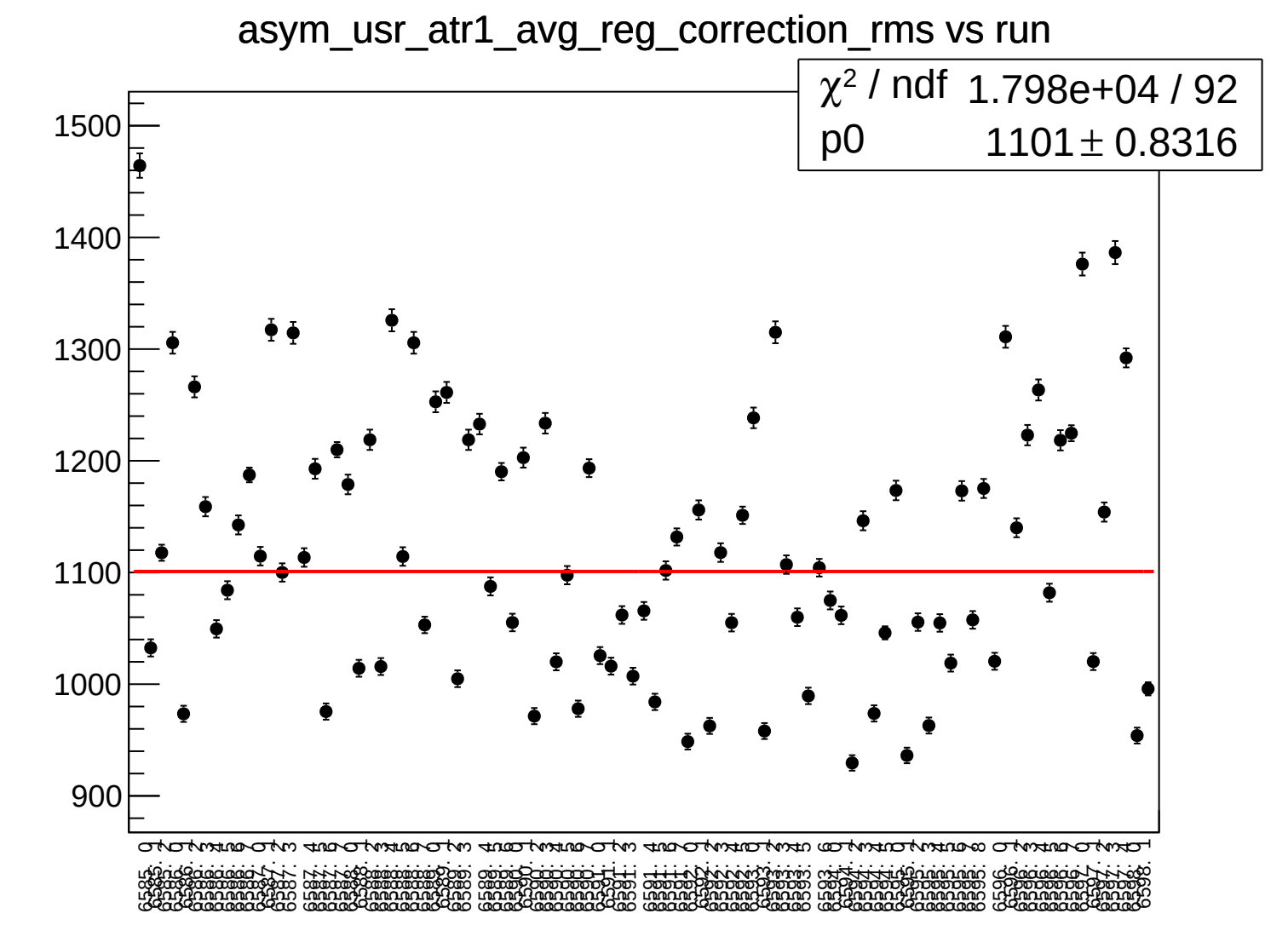

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.18 / 92
p0 −3736 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −656.5
Std Dev 0
2
1
0
−1
−2
−3

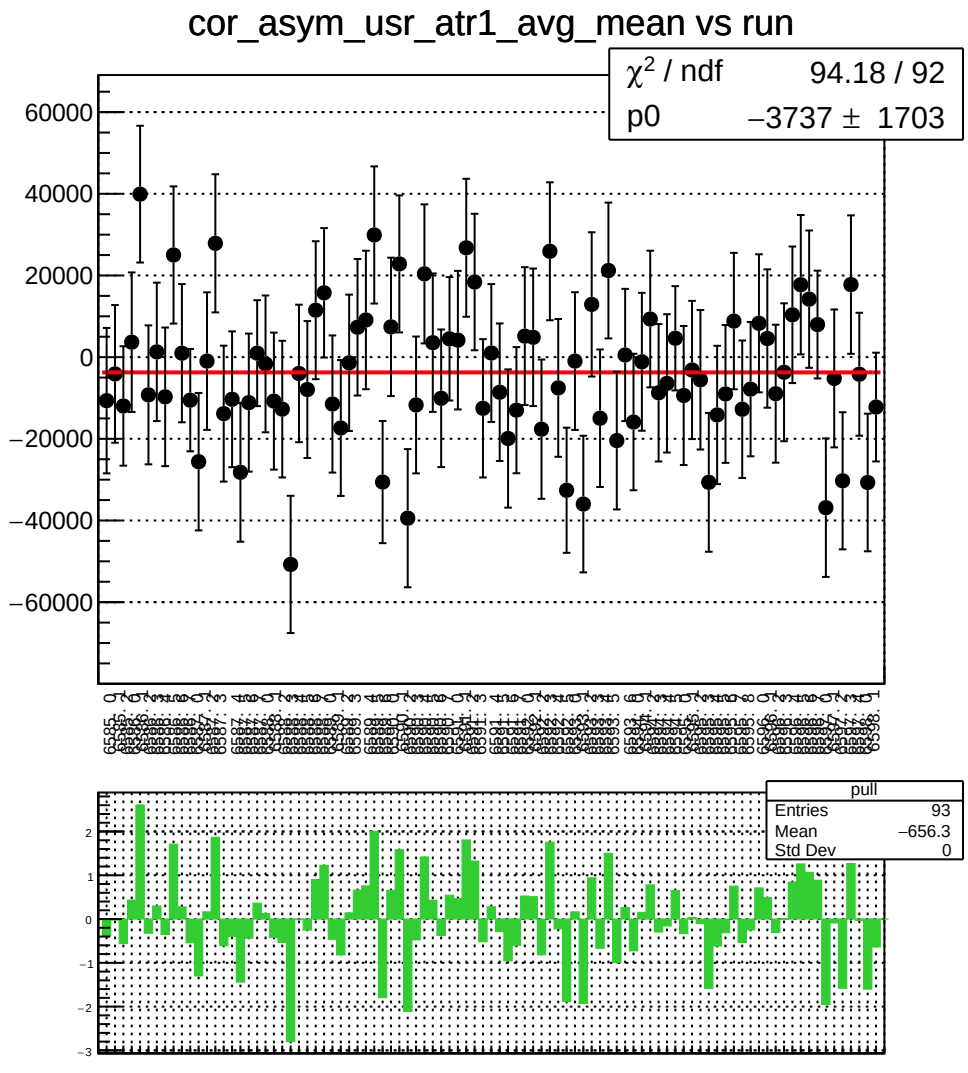

pull1D
Entries 93
Mean 0.002281
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

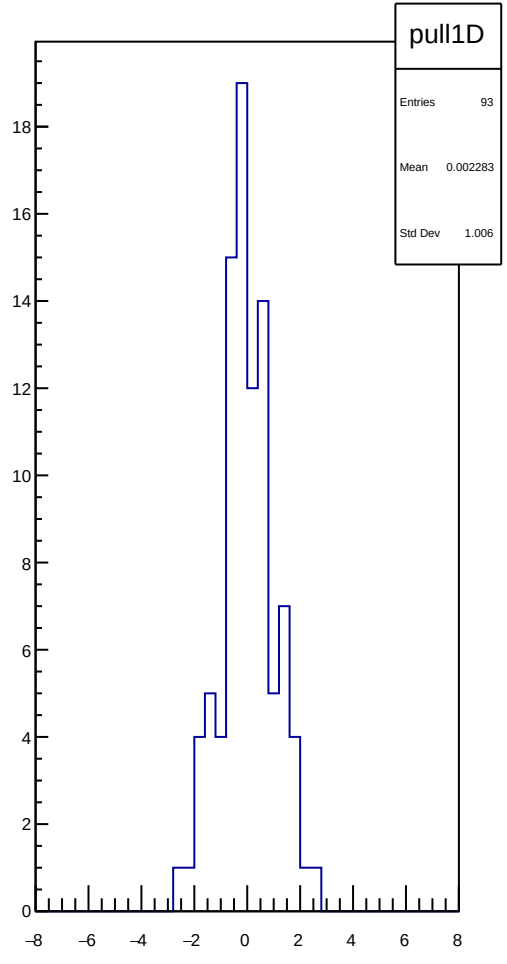

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 154.3 / 92
p0 1602 ± 1.204
1700
1680
1660
1640
1620
1600
1580
1560

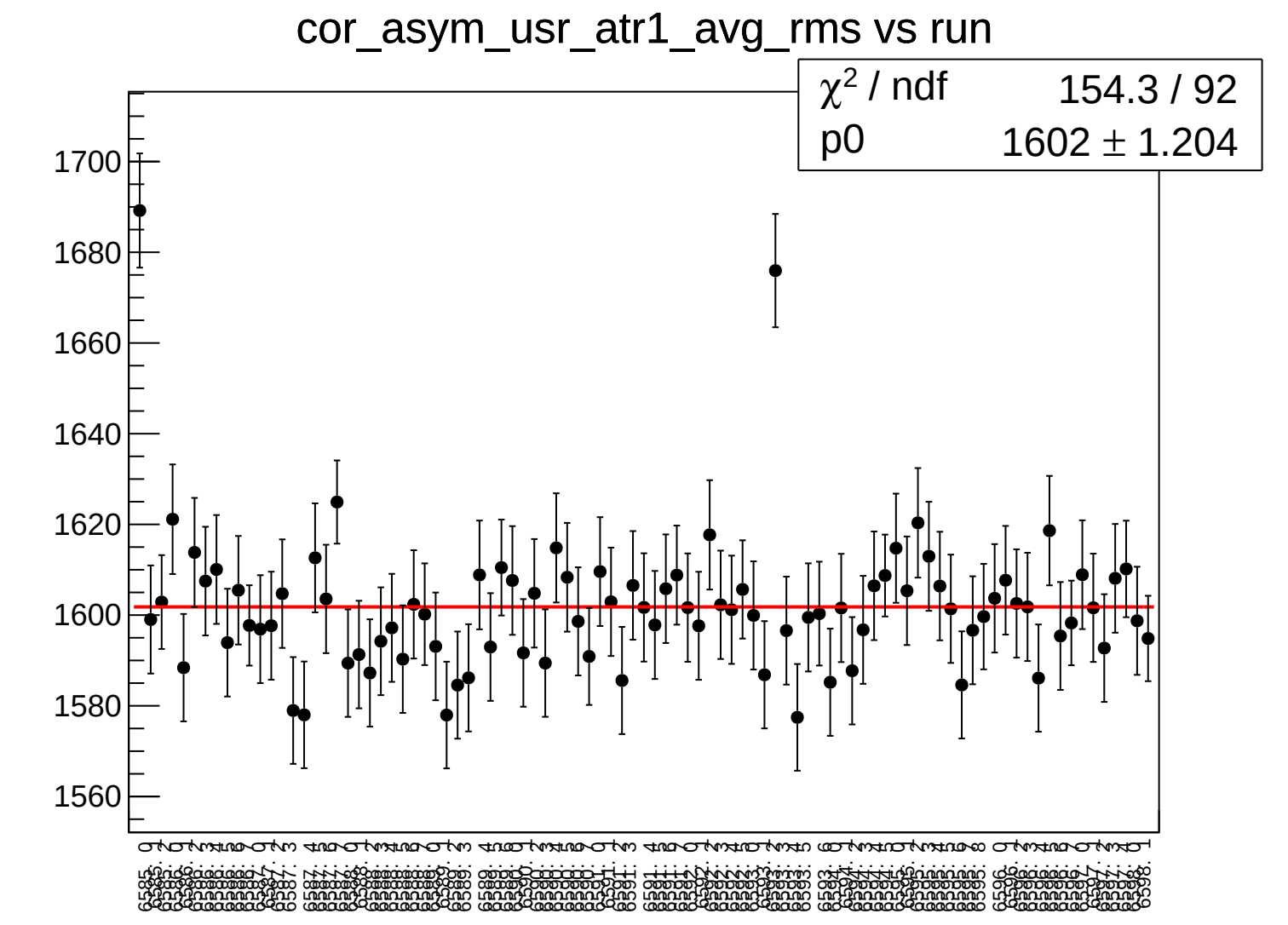

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 93.49 / 92
p0 500.8 ± 1176
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 81.12
Std Dev 155.1
3
2
1
0
−1
−2

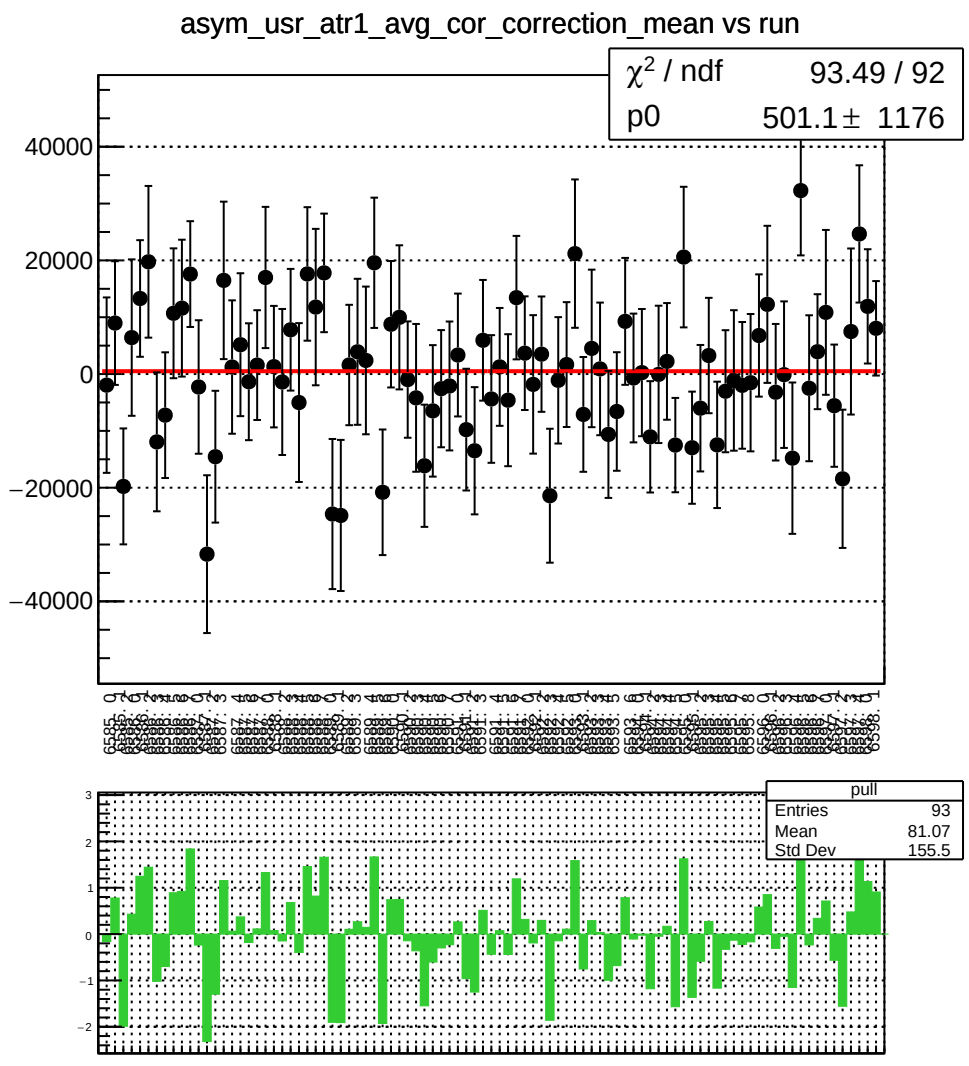

pull1D
Entries 93
Mean 0.004651
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

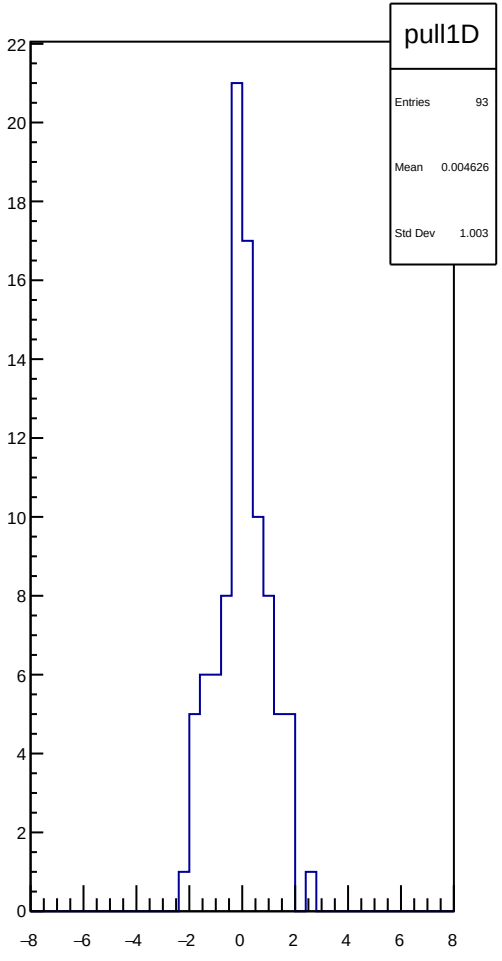

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.798e+04 / 92
p0 1101 ± 0.8316
1500
1400
1300
1200
1100
1000
900

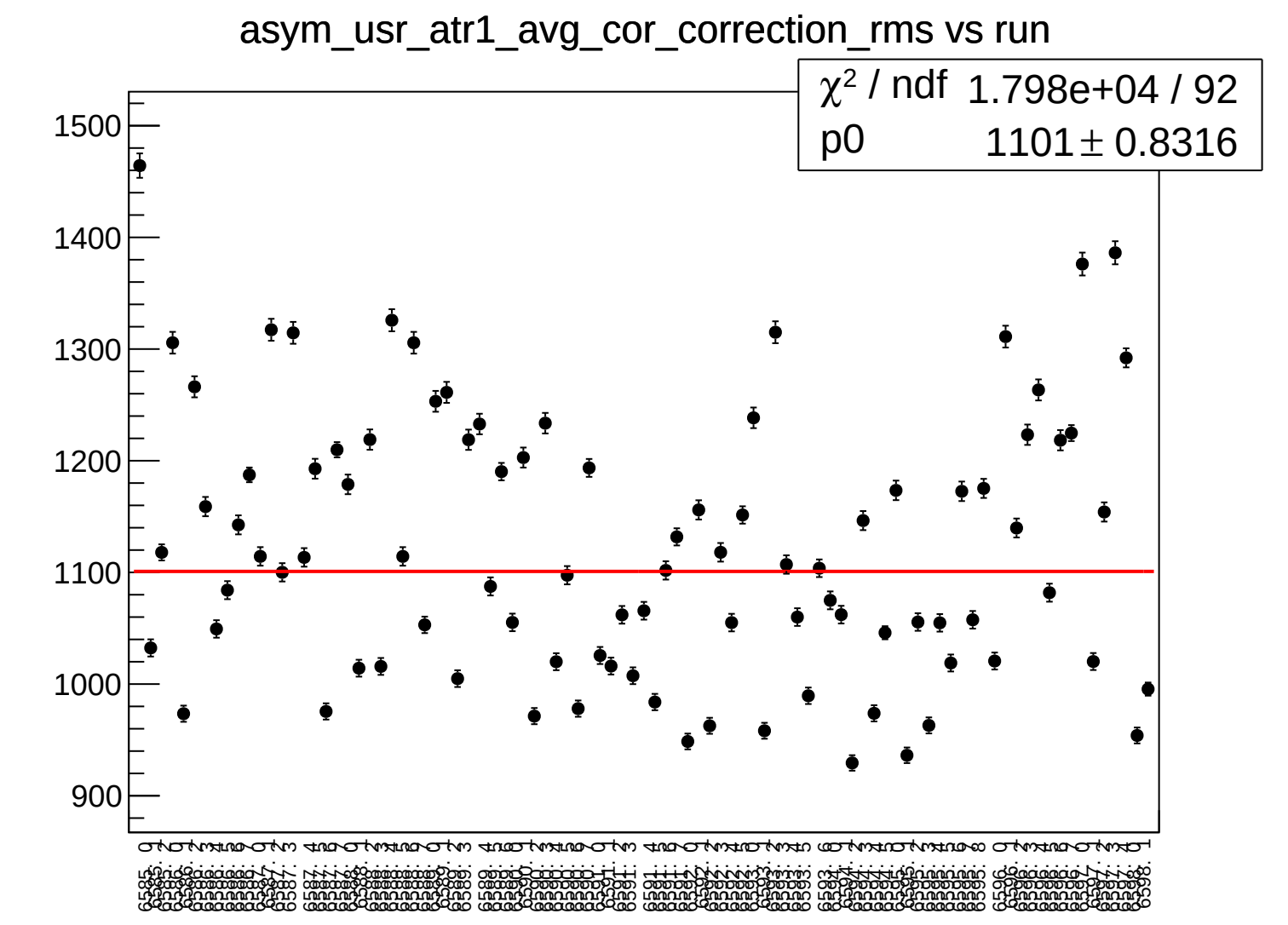

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.18 / 92
p0 −3737 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −656.3
Std Dev 0
2
1
0
−1
−2
−3

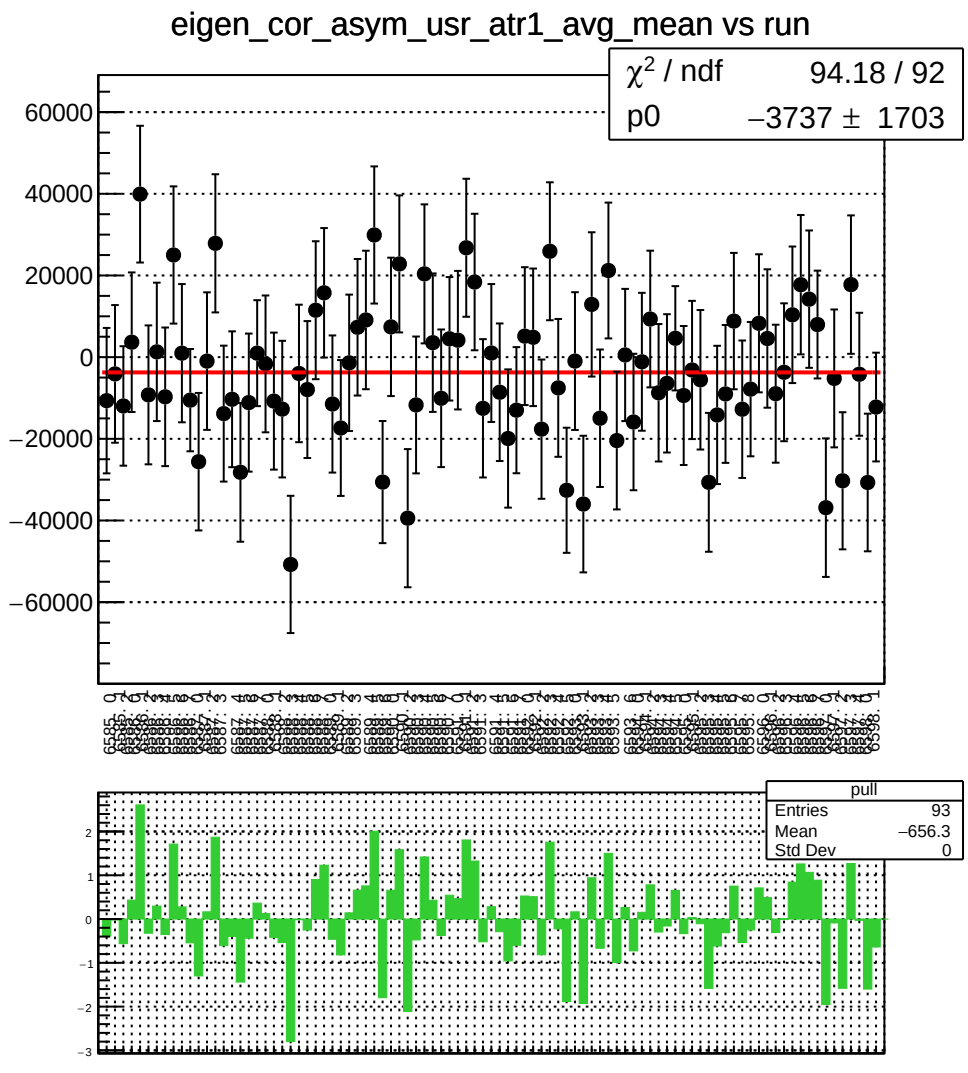

pull1D
Entries 93
Mean 0.002283
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

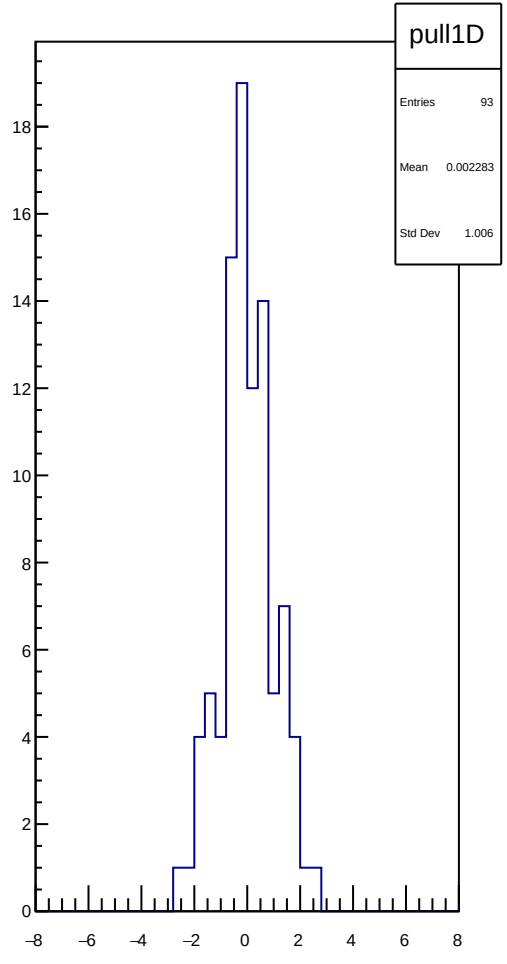

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 154.3 / 92
p0 1602 ± 1.204
1700
1680
1660
1640
1620
1600
1580
1560

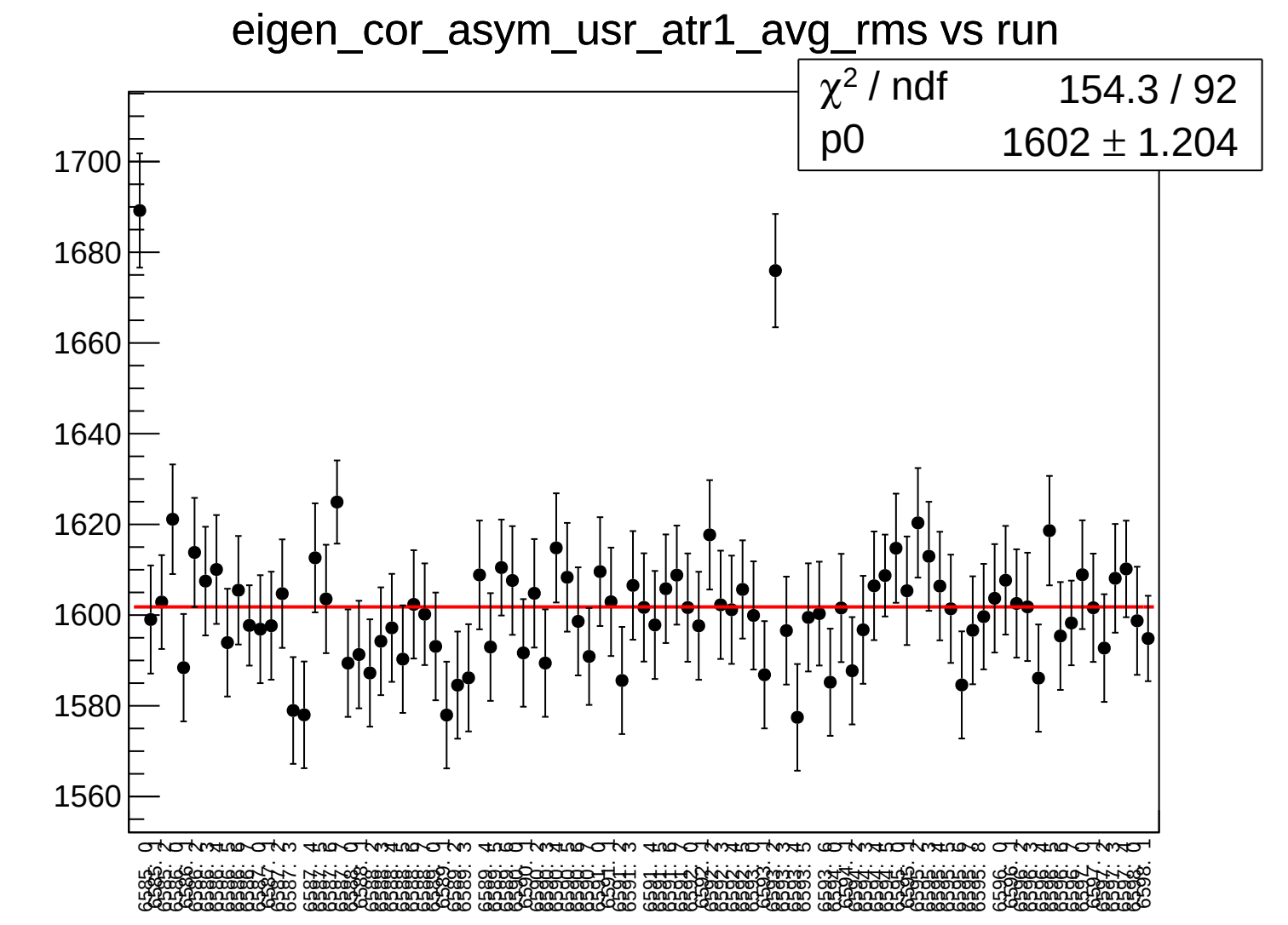

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 93.49 / 92
p0 501.1 ± 1176
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 81.07
Std Dev 155.5
3
2
1
0
−1
−2

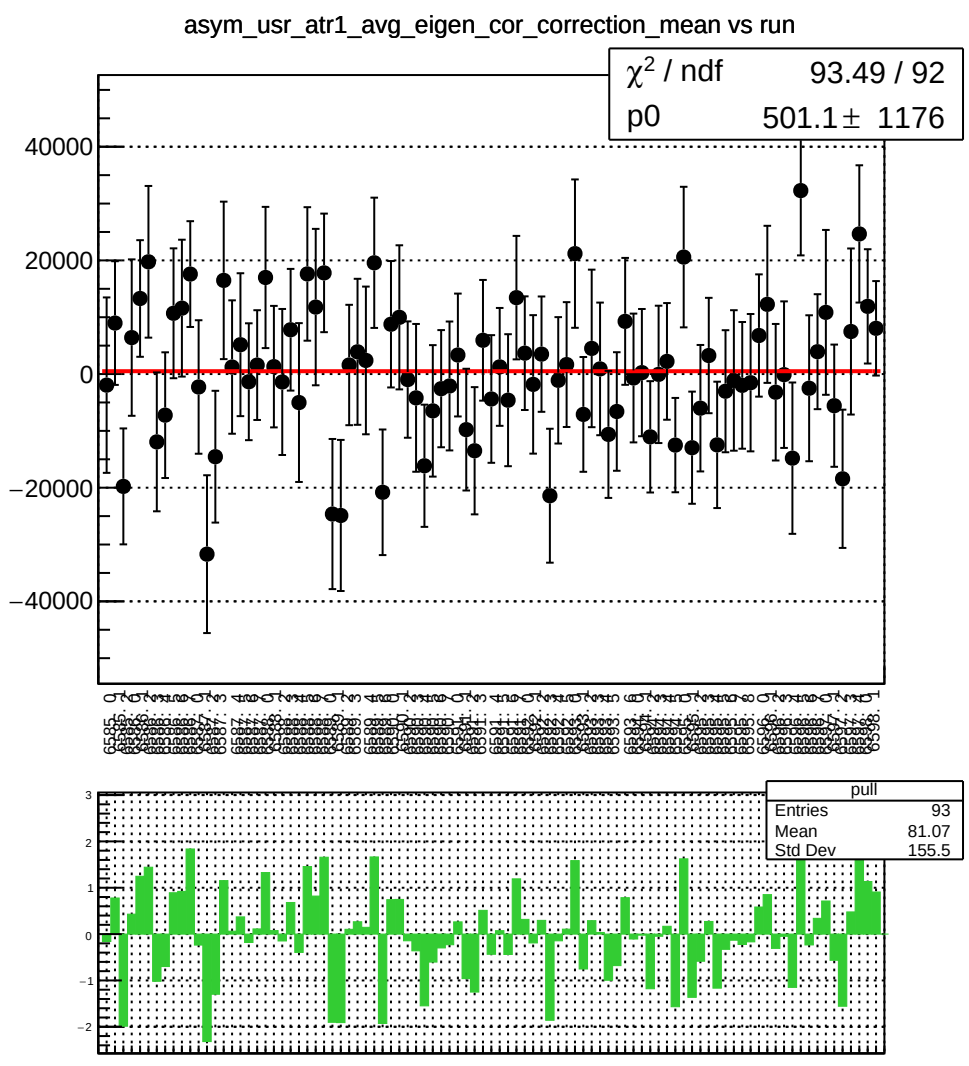

pull1D
Entries 93
Mean 0.004626
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

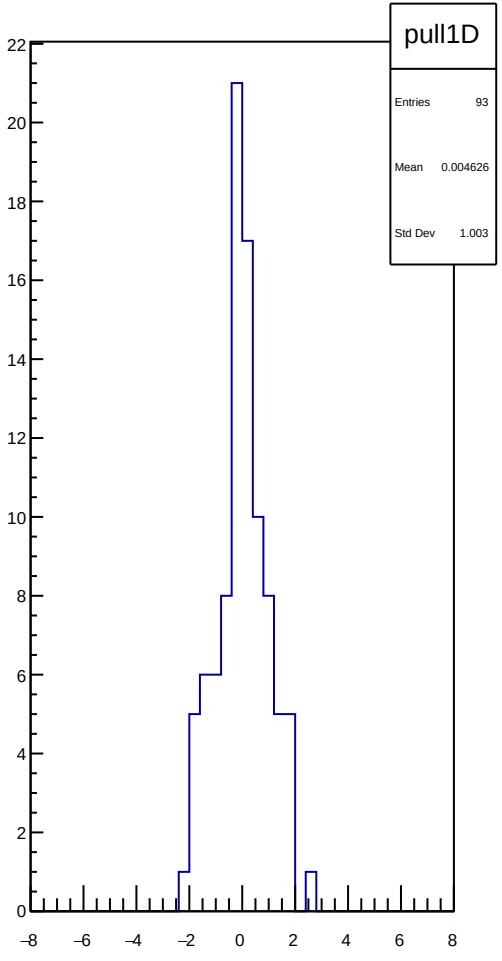

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.798e+04 / 92
p0 1101 ± 0.8316
1500
1400
1300
1200
1100
1000
900

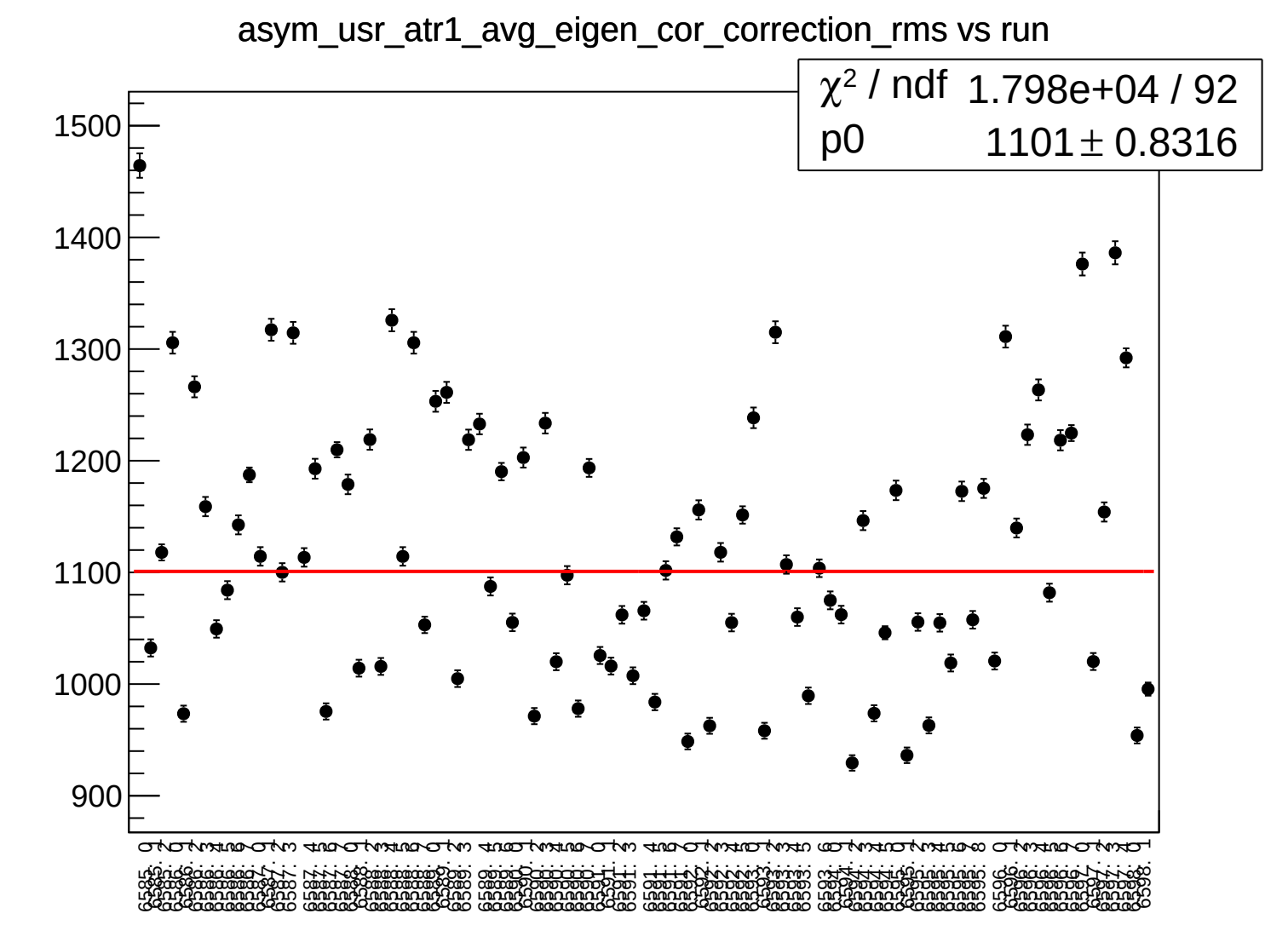

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 94.18 / 92
p0 −3737 ± 1703
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −656.3
Std Dev 0
2
1
0
−1
−2
−3

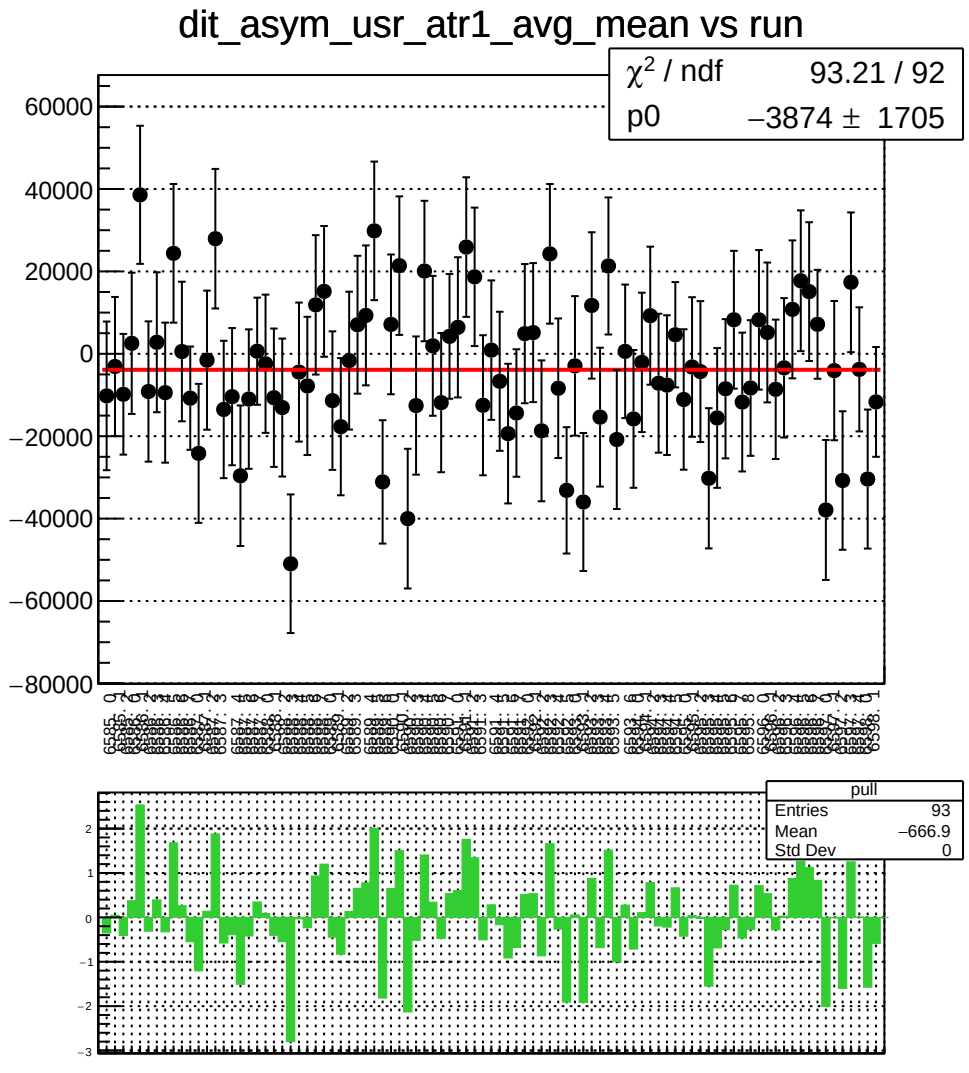

pull1D
Entries 93
Mean 0.002283
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

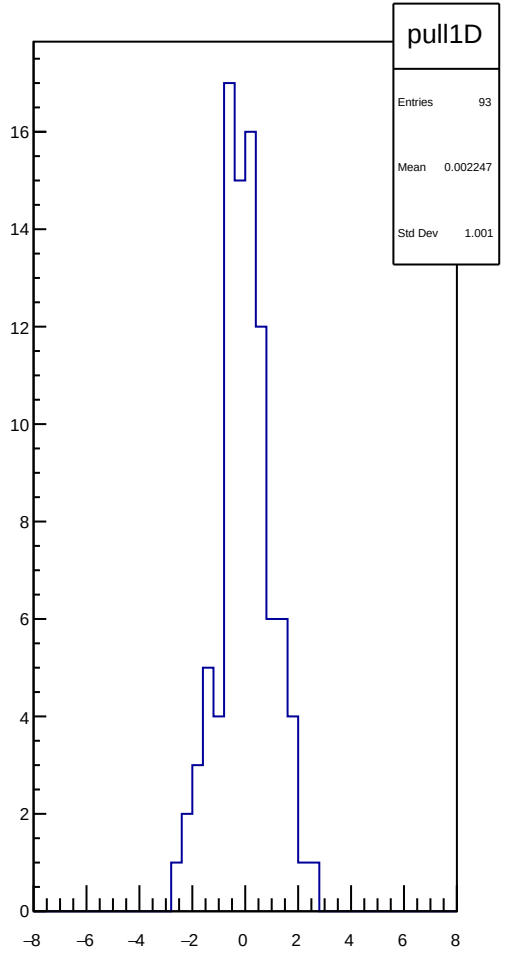

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 154.3 / 92
p0 1602 ± 1.204
1700
1680
1660
1640
1620
1600
1580
1560

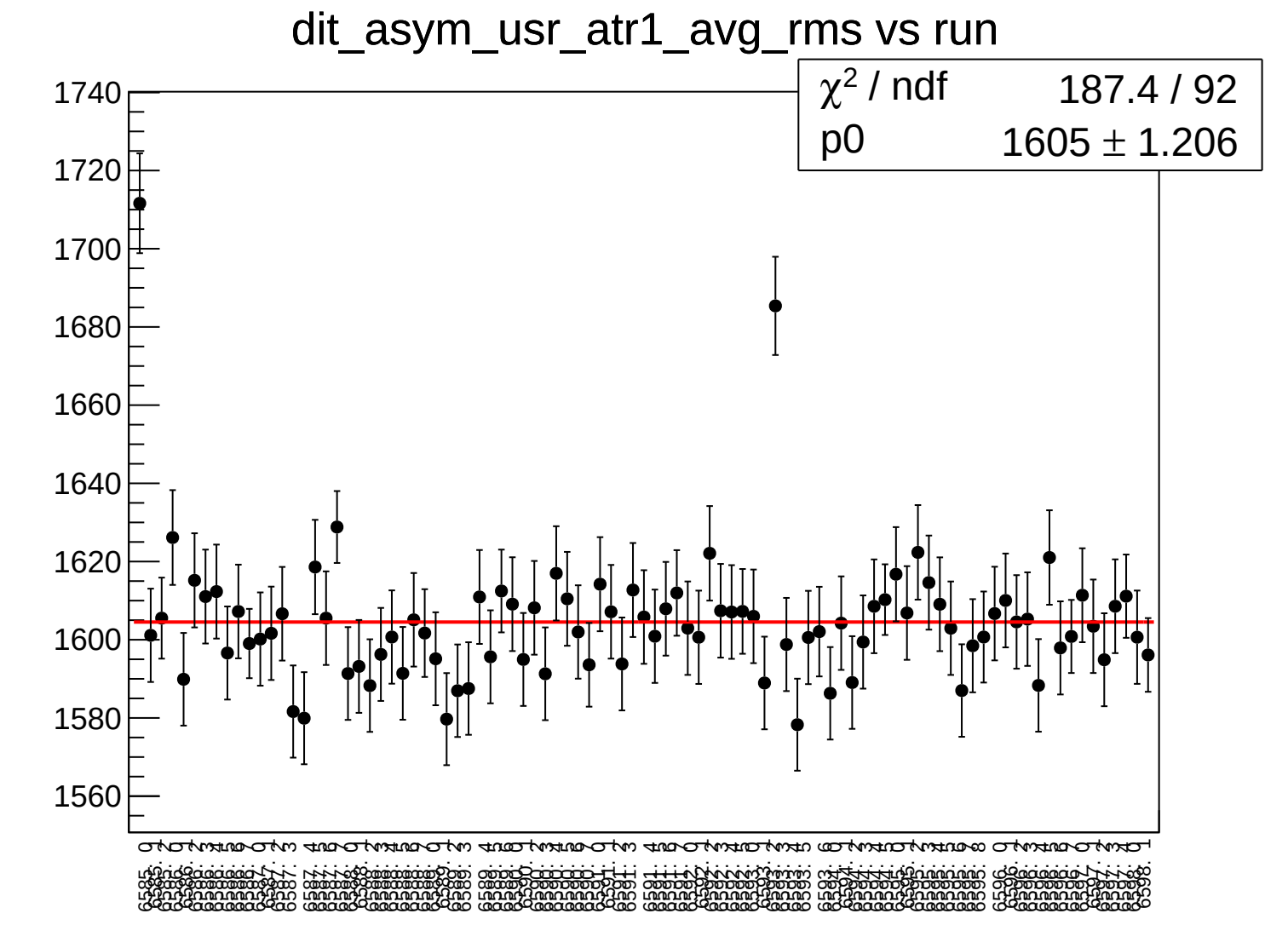

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.49 / 92
p0 501.1 ± 1176
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 81.07
Std Dev 155.5
3
2
1
0
−1
−2

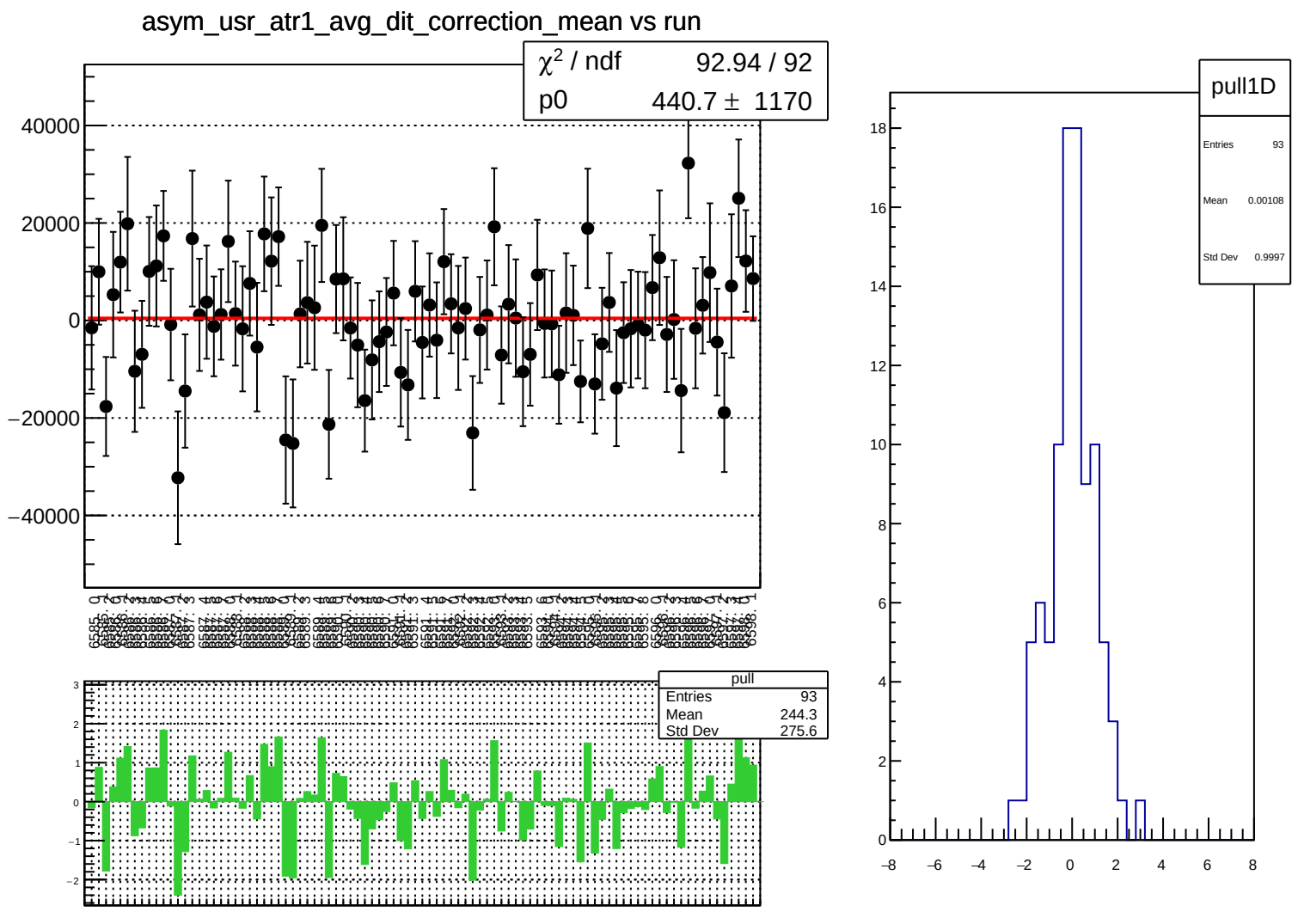

pull1D
Entries 93
Mean 0.004626
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

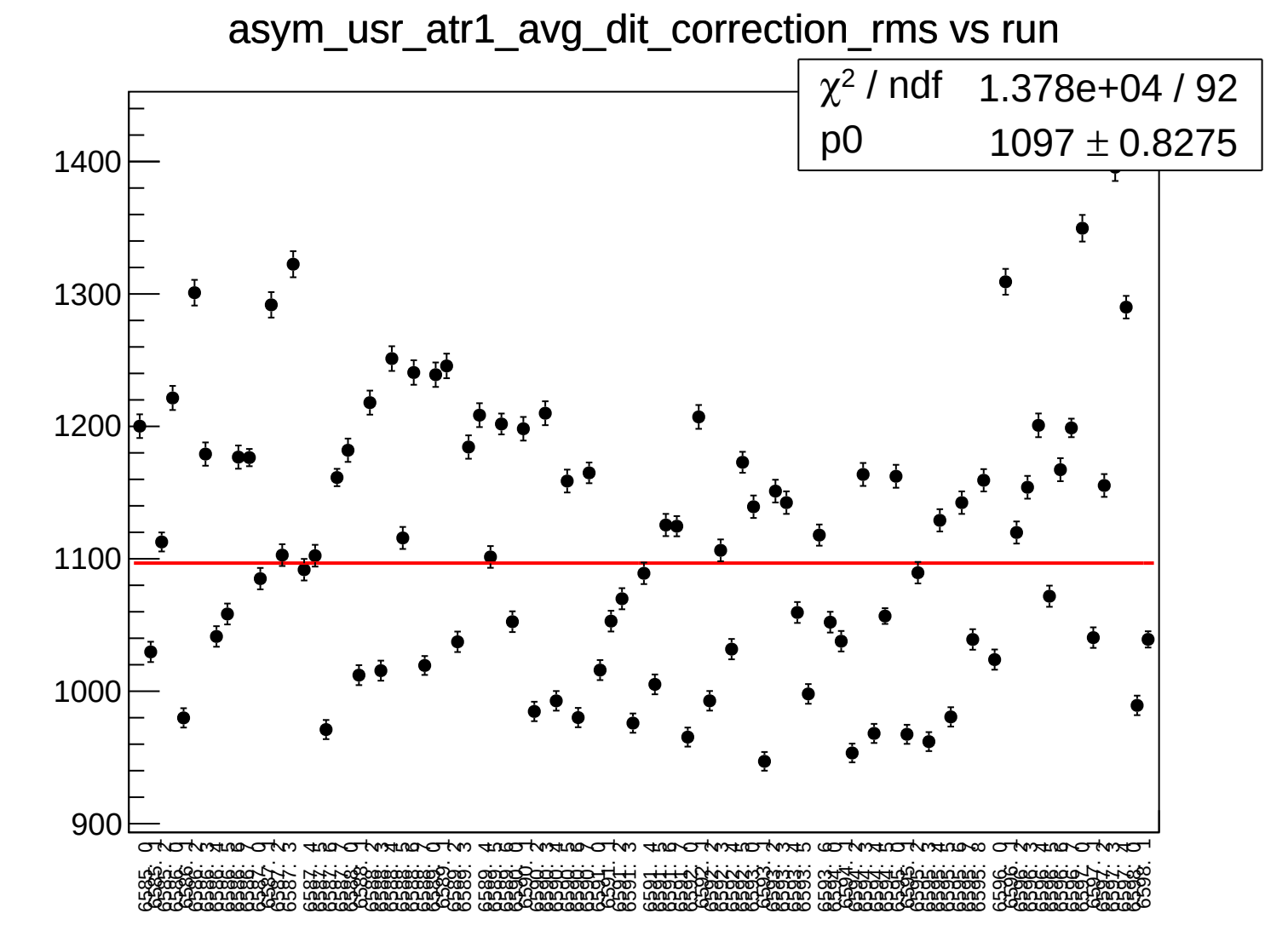

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.798e+04 / 92
p0 1101 ± 0.8316
1500
1400
1300
1200
1100
1000
900

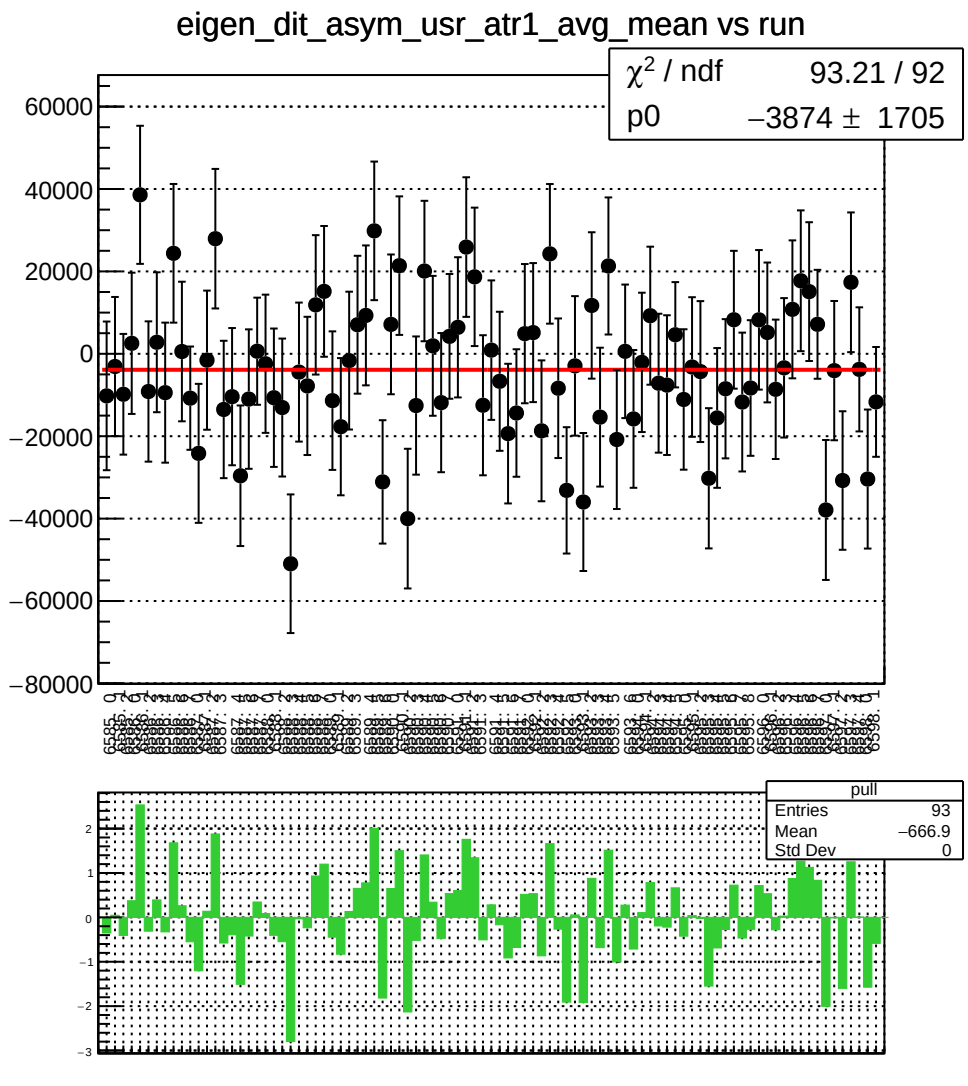

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 93.21 / 92
p0 −3874 ± 1705
pull
Entries 93
Mean −666.9
Std Dev 0

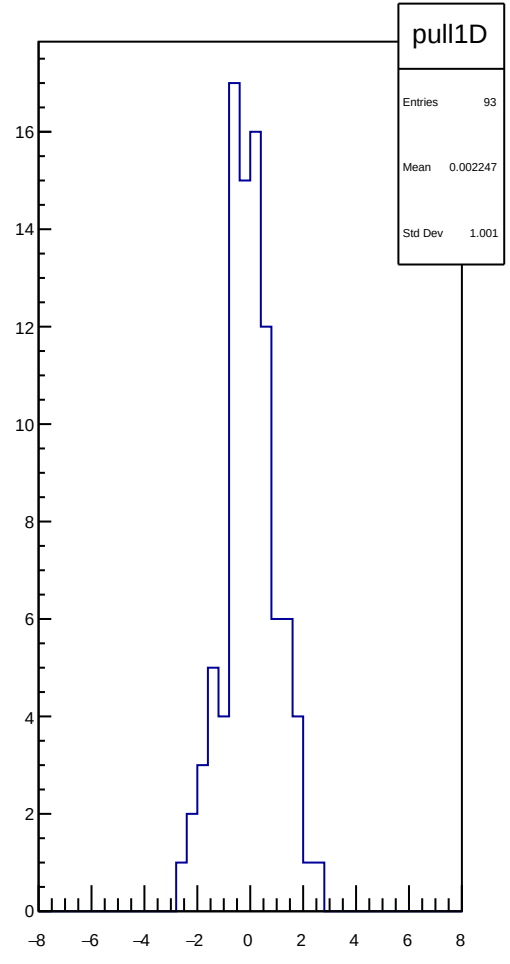

pull1D
Entries 93
Mean 0.002247
Std Dev 1.001

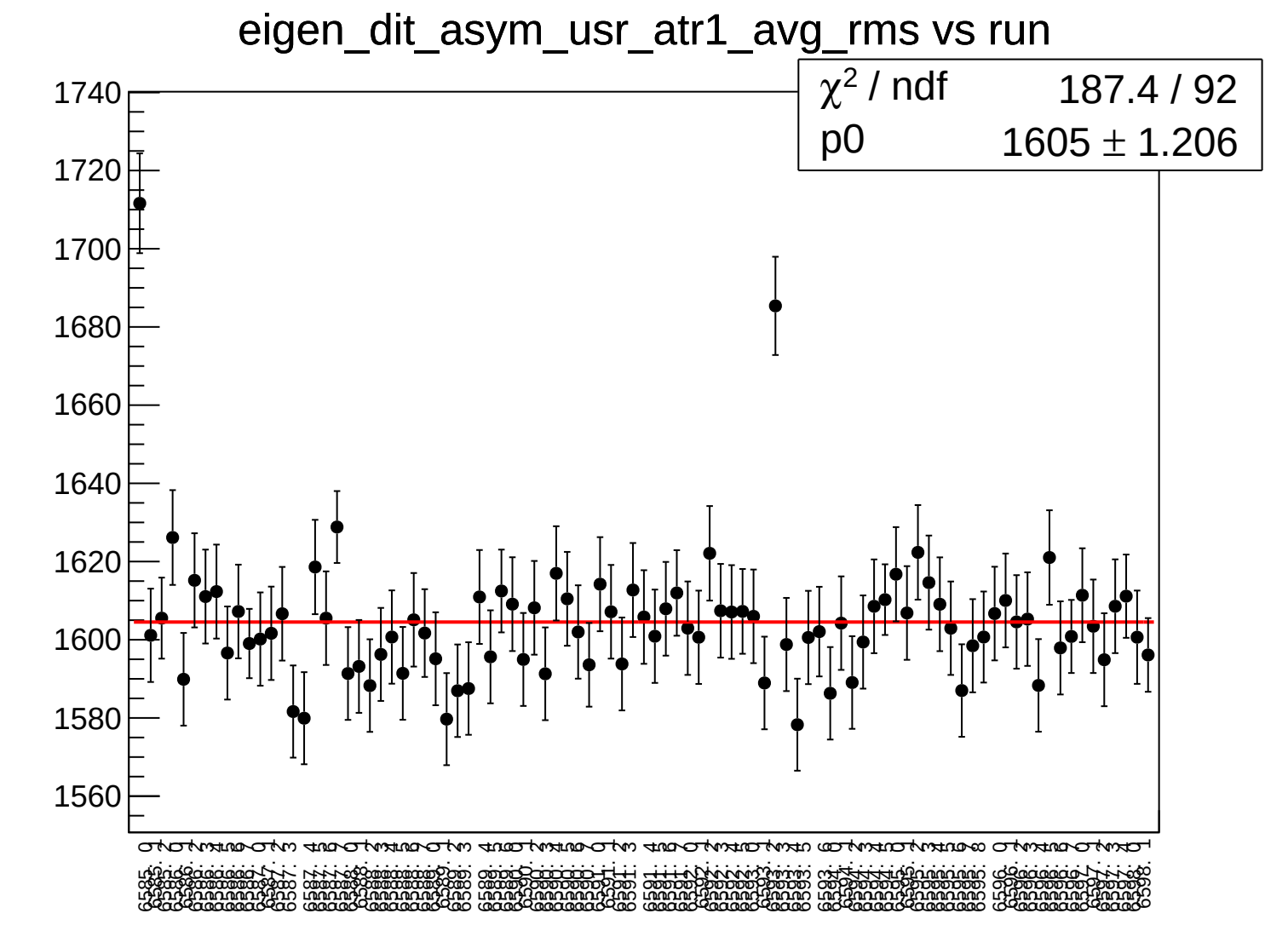

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 187.4 / 92
p0 1605 ± 1.206
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

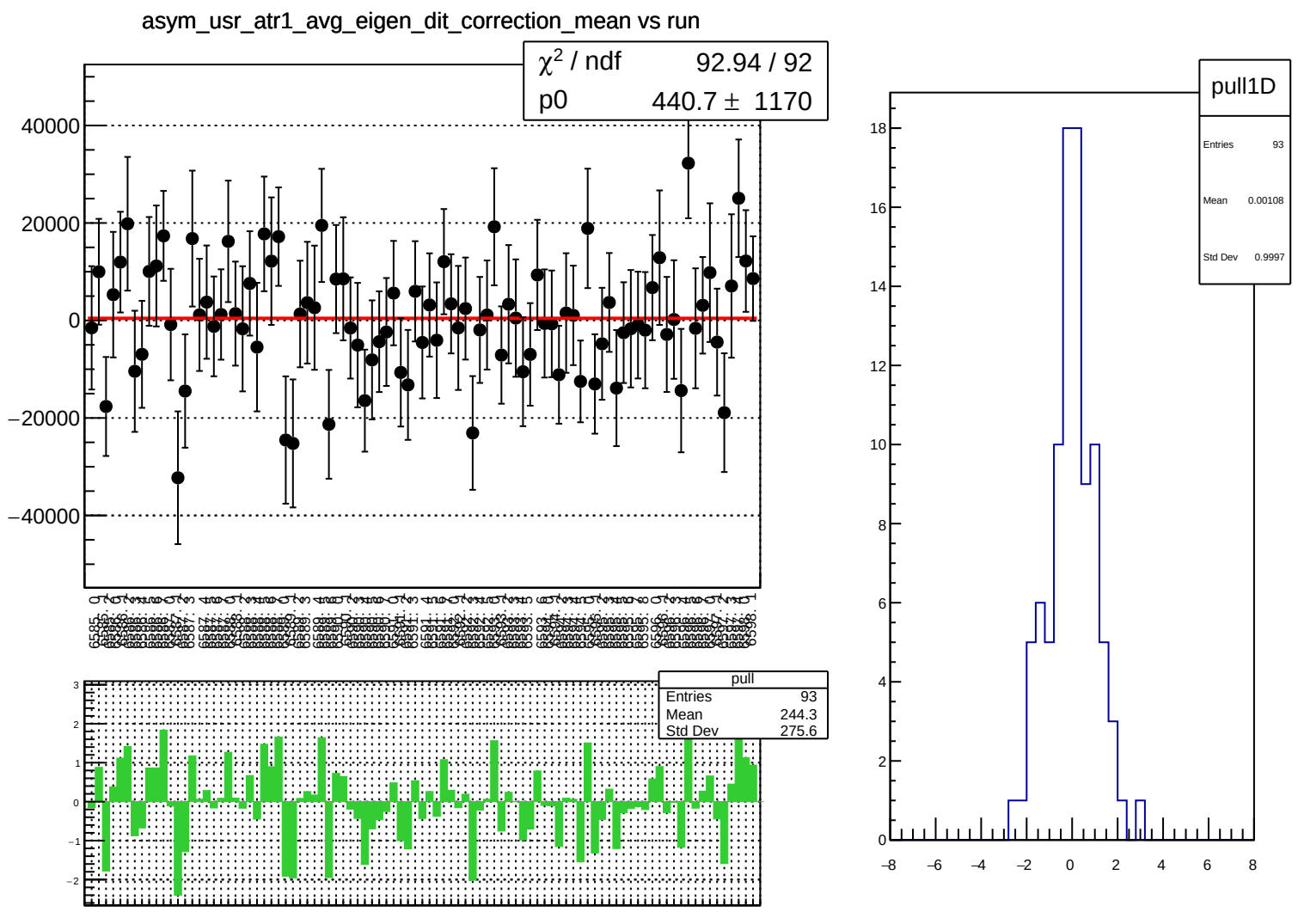

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 92.94 / 92
p0 440.7 ± 1170
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 244.3
Std Dev 275.6
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00108
Std Dev 0.9997
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

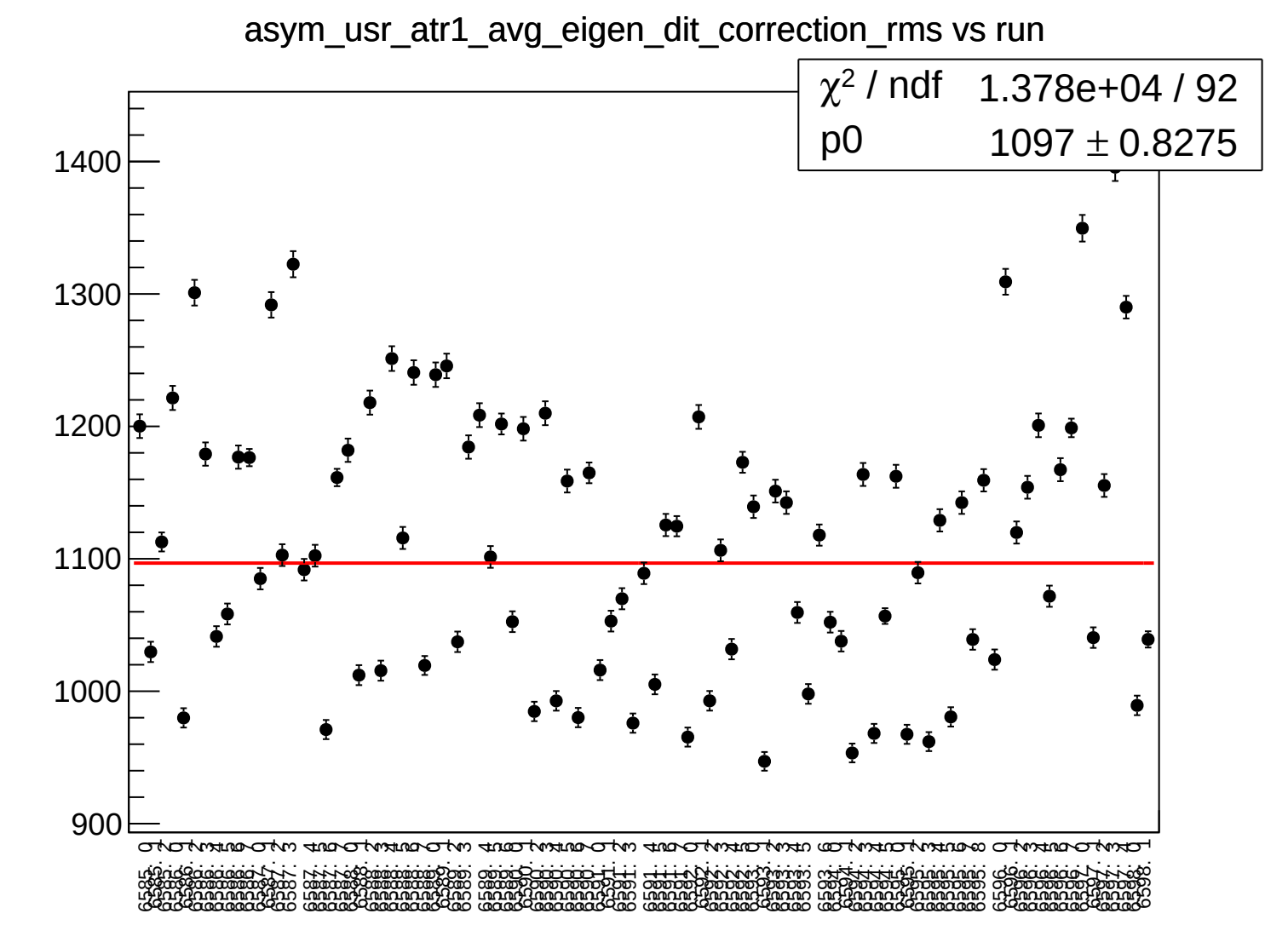

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 1.378e+04 / 92
p0 1097 ± 0.8275
1400
1300
1200
1100
1000
900

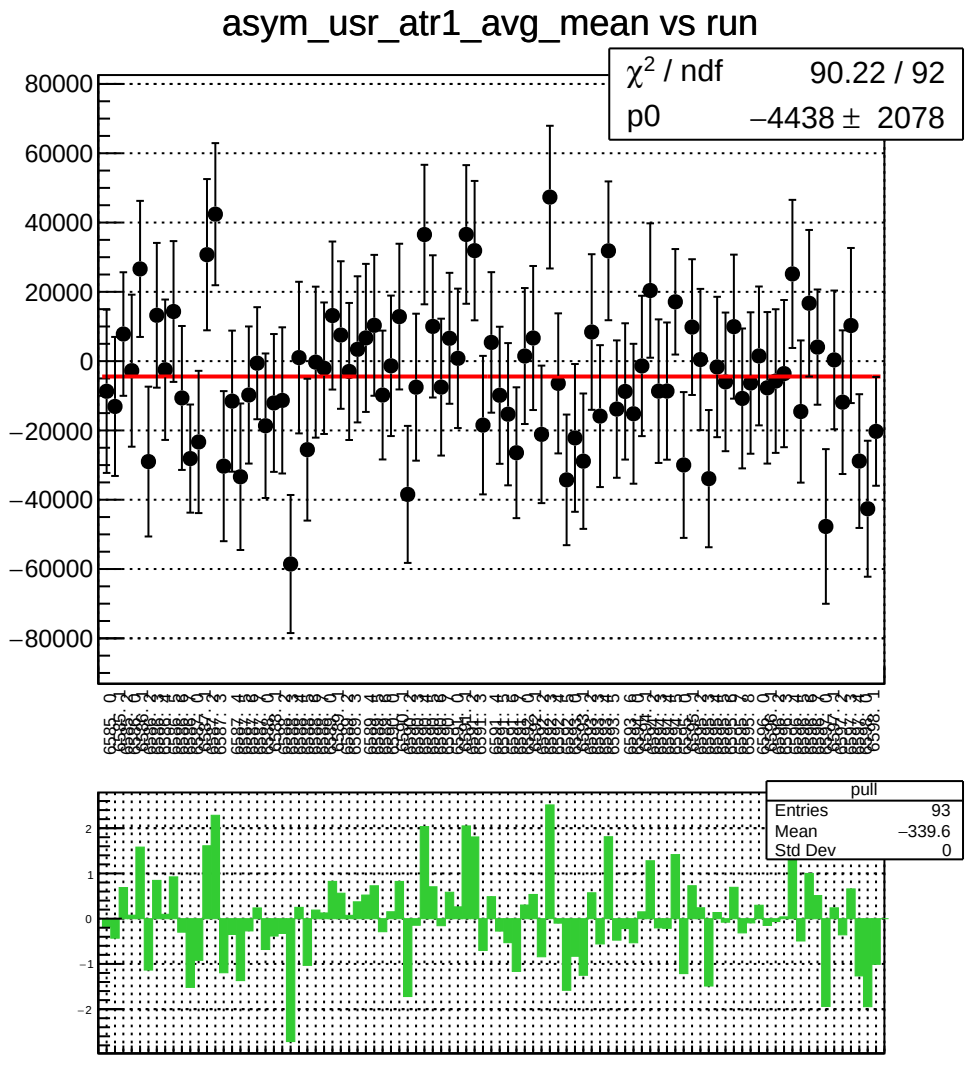

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 93.21 / 92
p0 −3874 ± 1705
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −666.9
Std Dev 0
2
1
0
−1
−2
−3

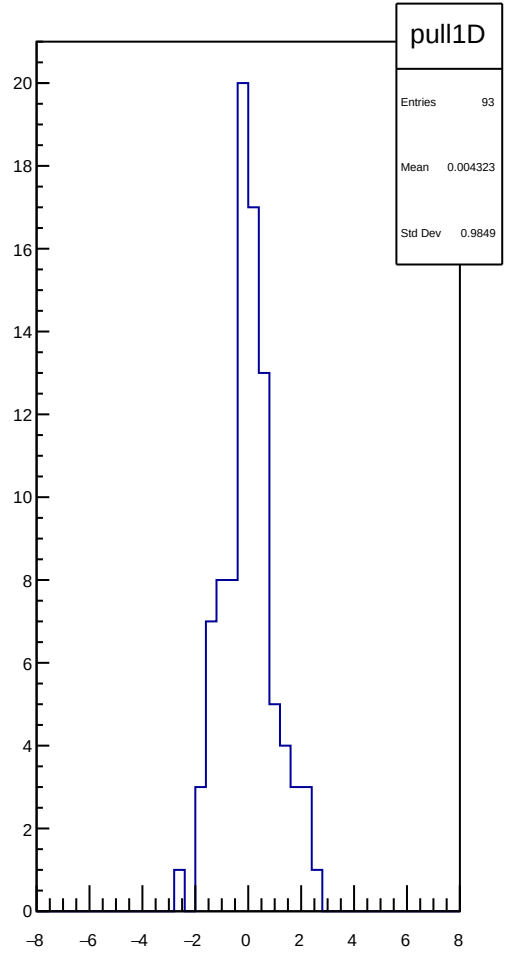

pull1D
Entries 93
Mean 0.002247
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

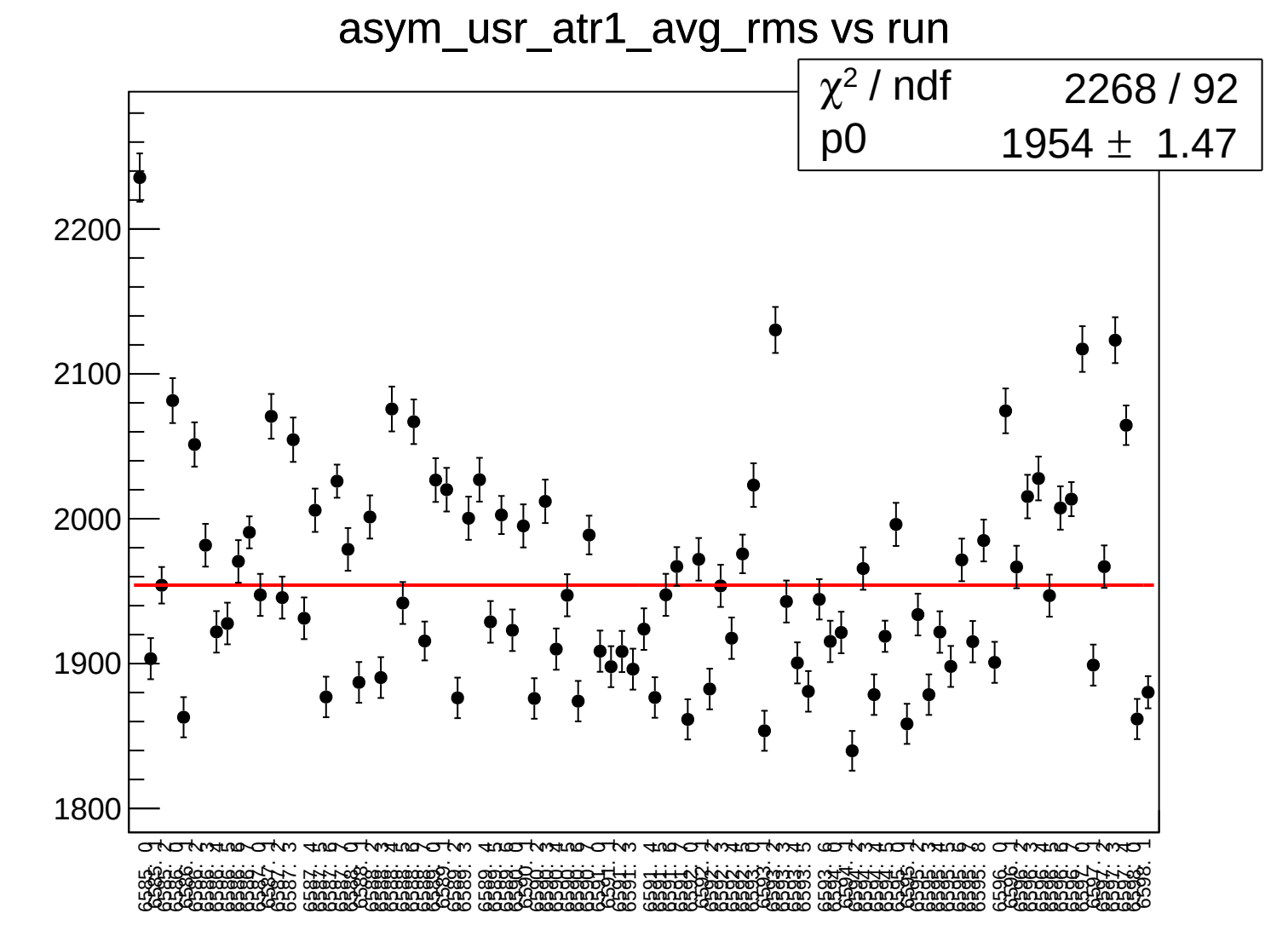

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 187.4 / 92
p0 1605 ± 1.206
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

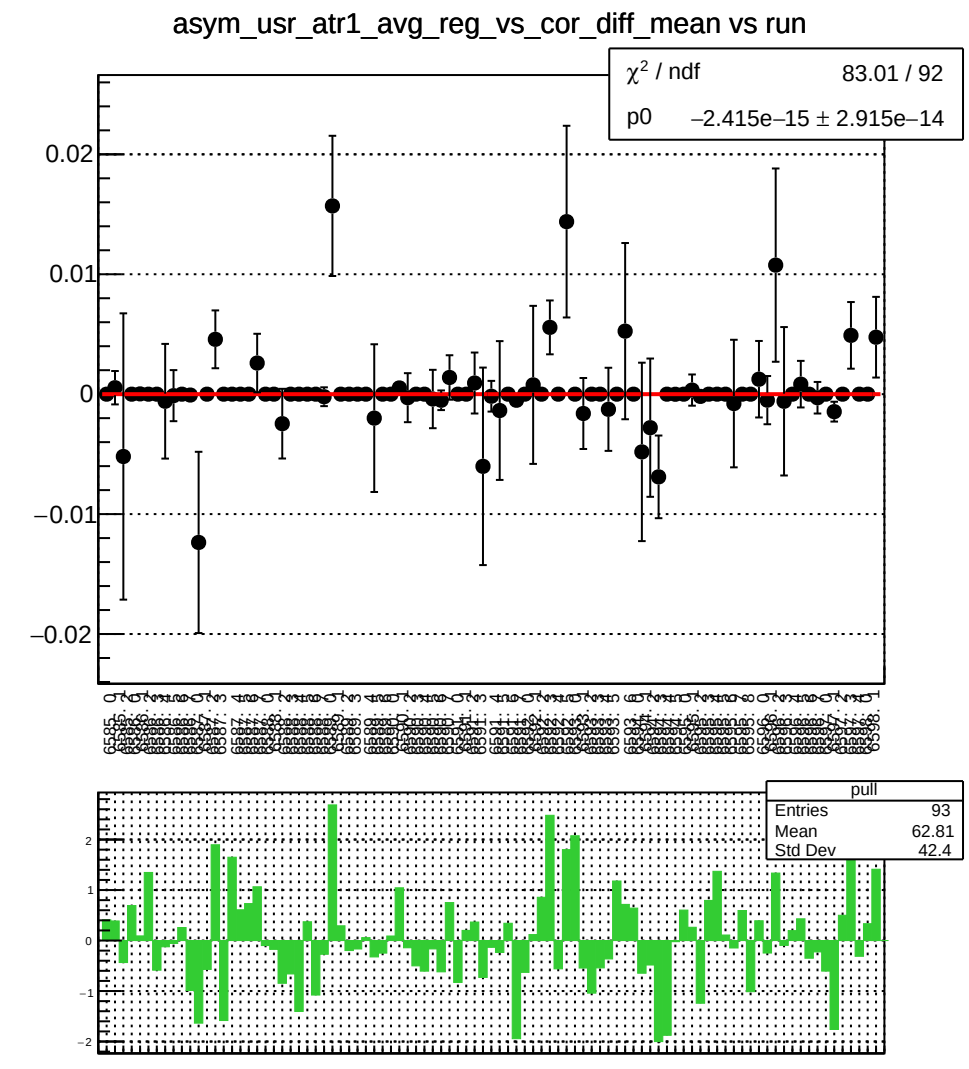

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 92.94 / 92
p0 440.7 ± 1170
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 244.3
Std Dev 275.6
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00108
Std Dev 0.9997
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

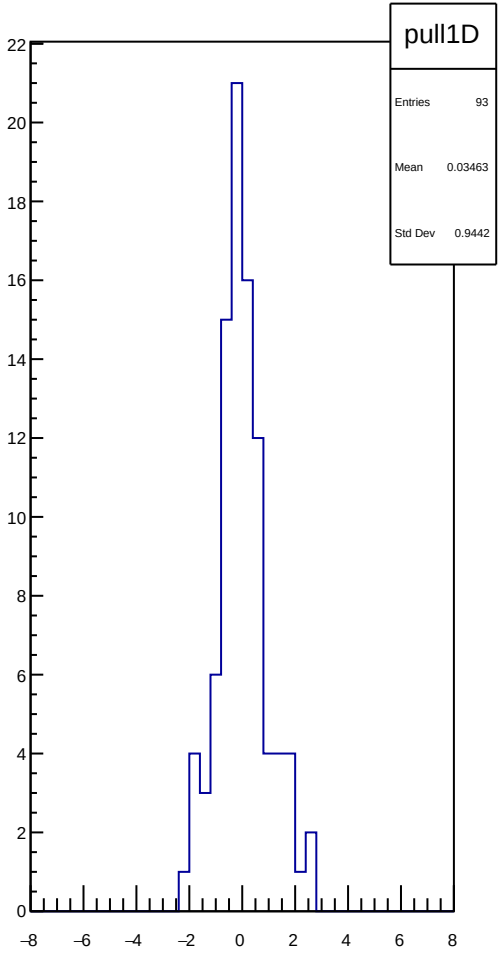

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.378e+04 / 92
p0 1097 ± 0.8275
1400
1300
1200
1100
1000
900

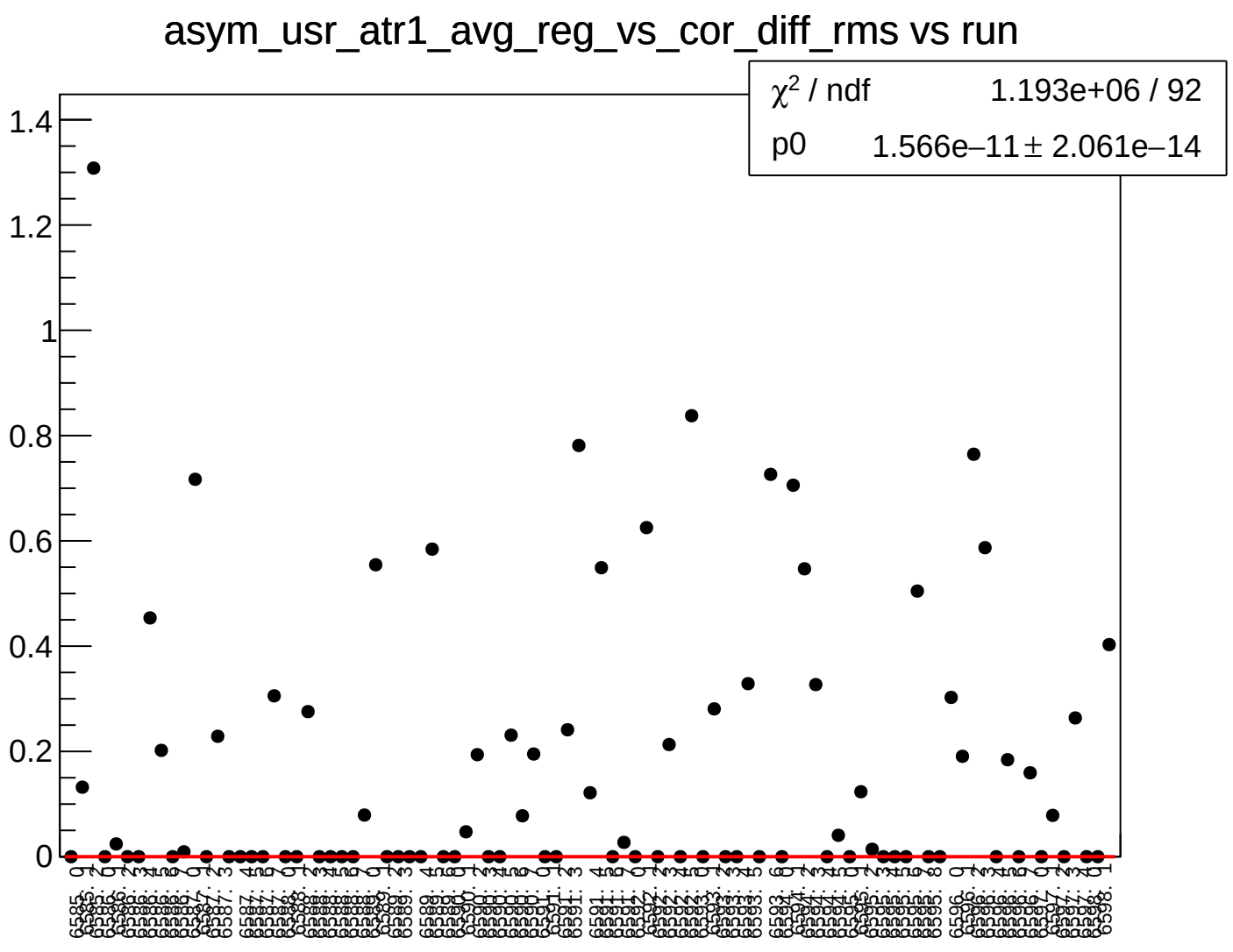

asym_usr_atr1_avg_mean vs run
χ² / ndf 90.22 / 92
p0 −4438 ± 2078
pull
Entries 93
Mean −339.6
Std Dev 0

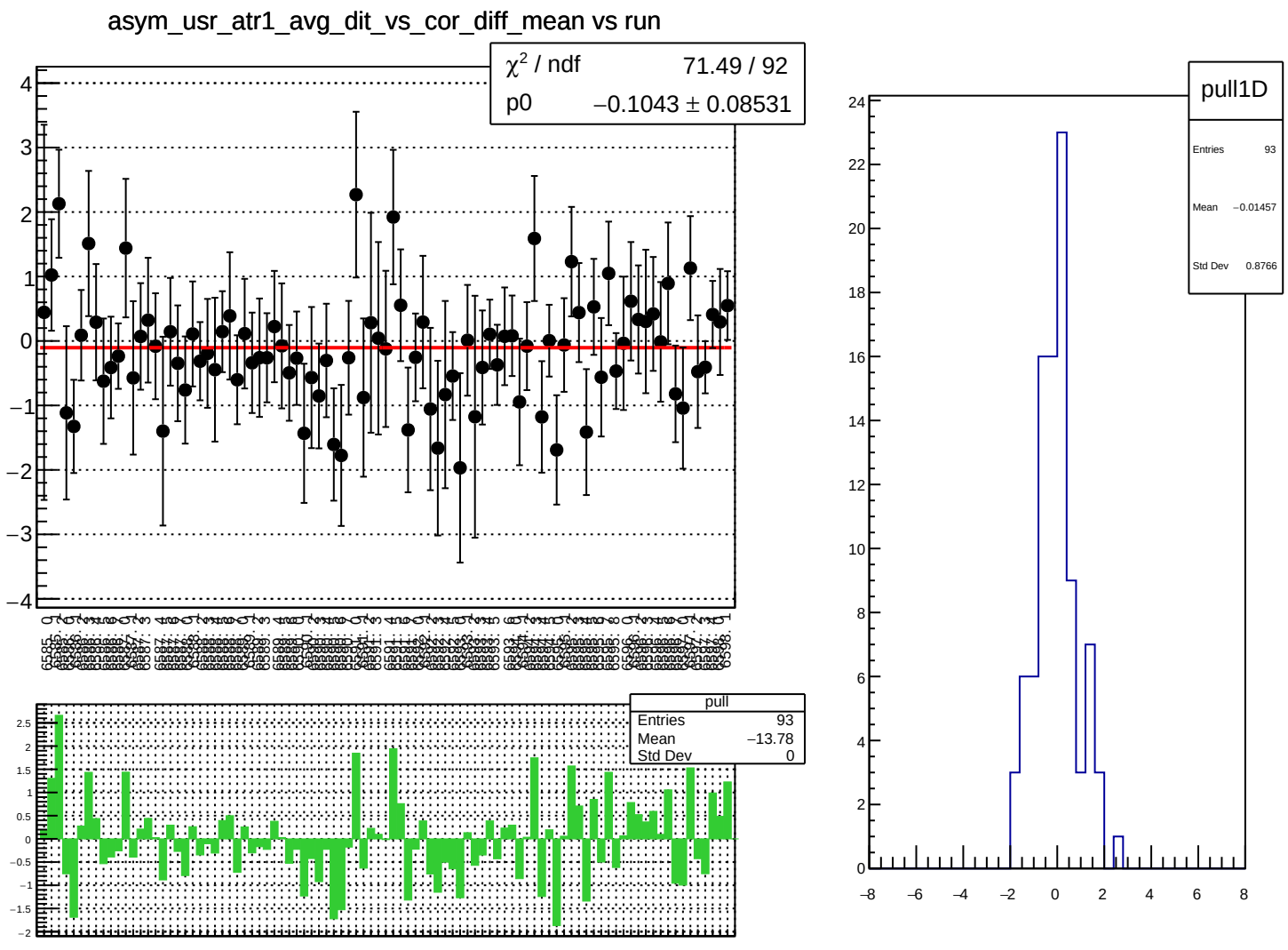

pull1D
Entries 93
Mean 0.004323
Std Dev 0.9849

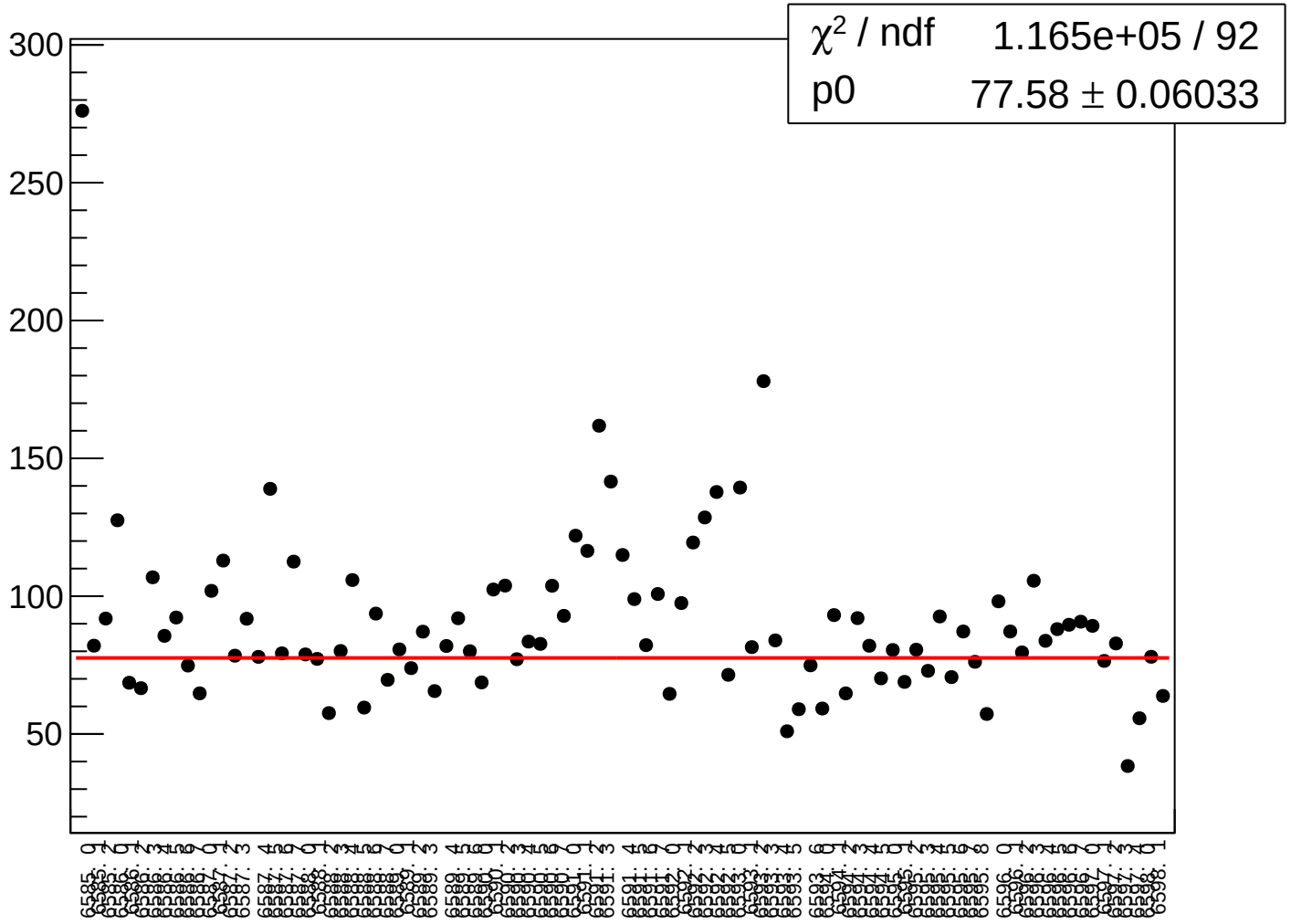

asym_usr_atr1_avg_rms vs run
χ² / ndf 2268 / 92
p0 1954 ± 1.47
2200
2100
2000
1900
1800

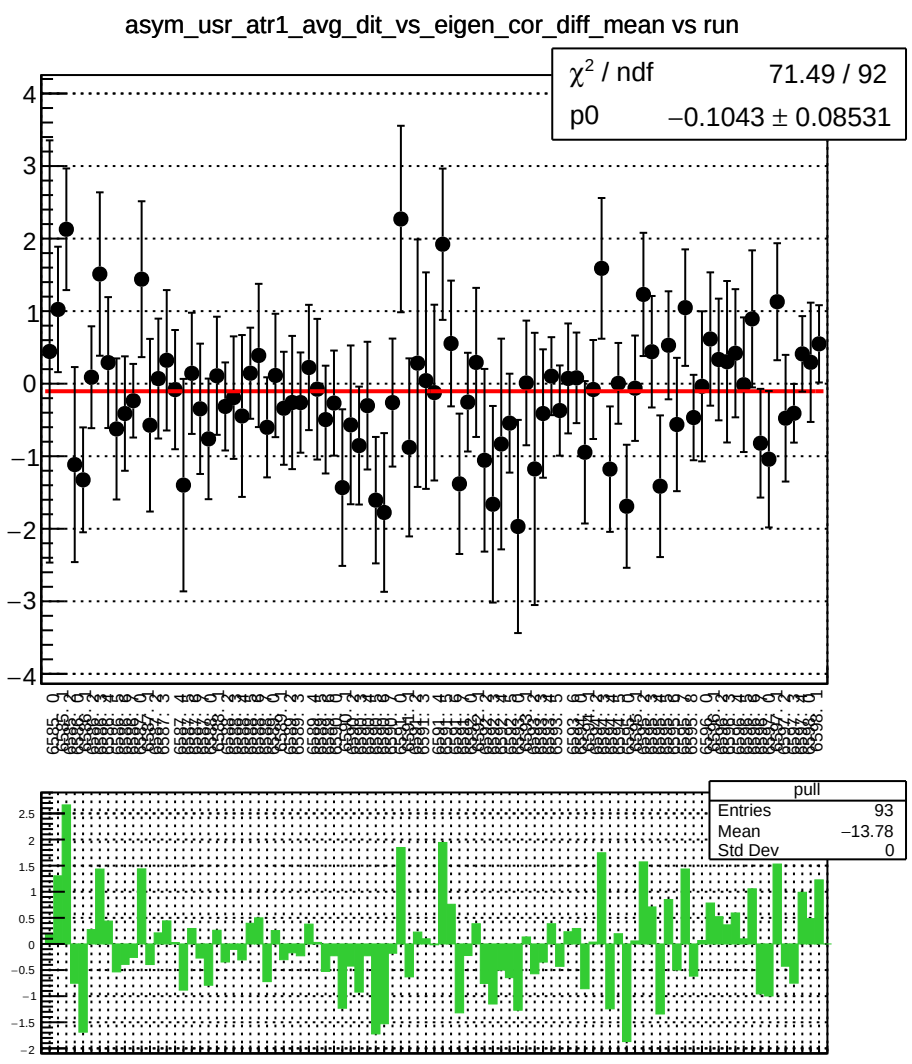

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.01 / 92
p0 −2.415e−15 ± 2.915e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 62.81
Std Dev 42.4
2
1
0
−1
−2

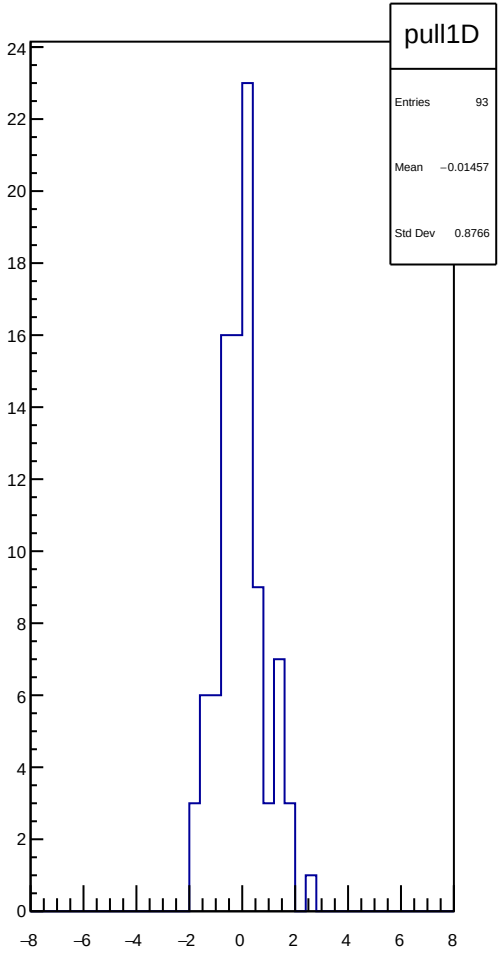

pull1D
Entries 93
Mean 0.03463
Std Dev 0.9442
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

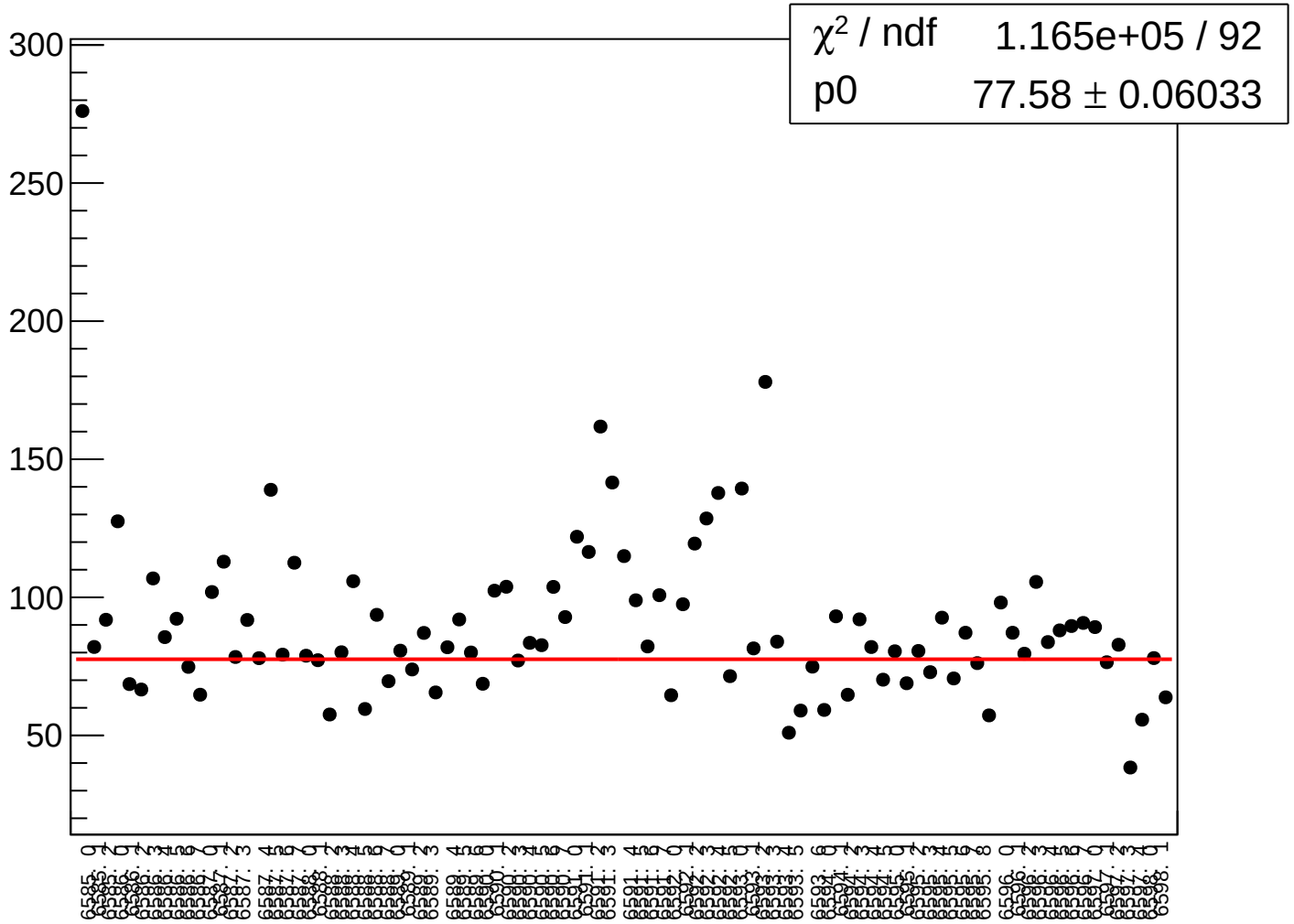

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.193e+06 / 92
p0 1.566e−11 ± 2.061e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

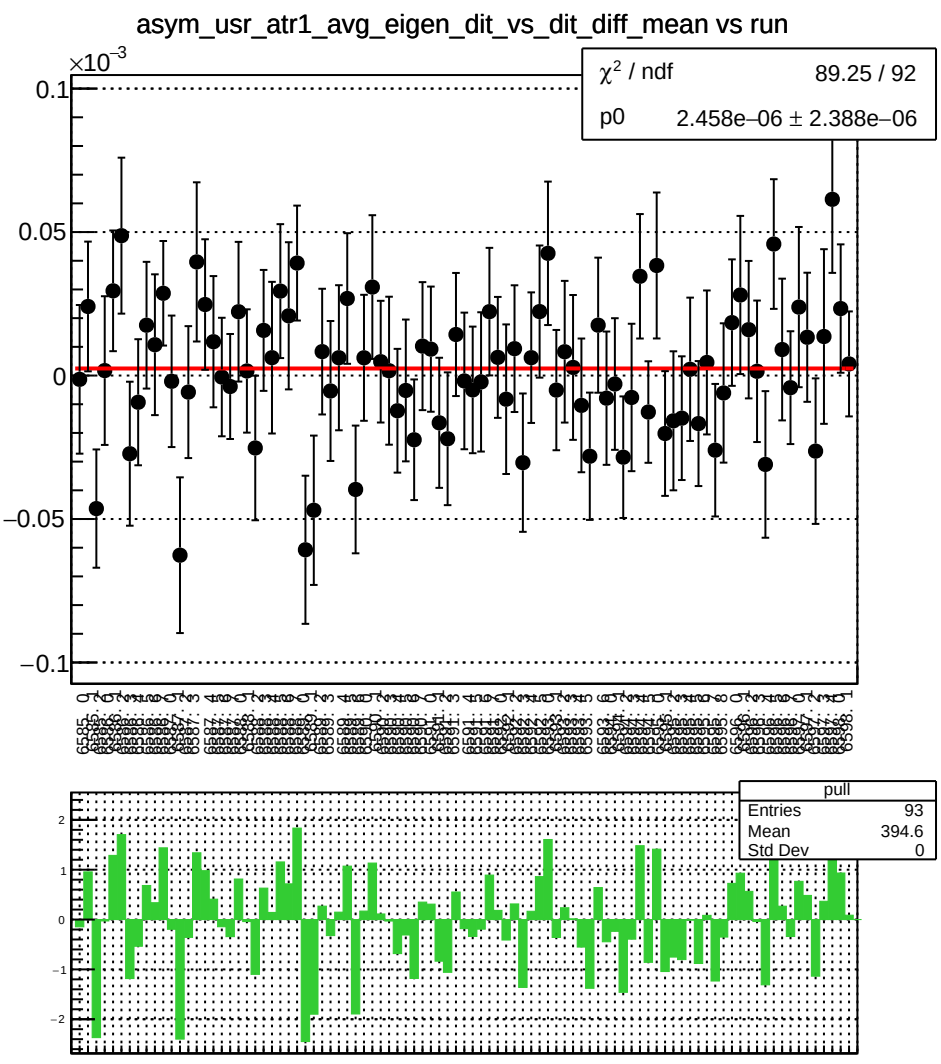

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.49 / 92
p0 −0.1043 ± 0.08531
pull
Entries 93
Mean −13.78
Std Dev 0
pull1D
Entries 93
Mean −0.01457
Std Dev 0.8766

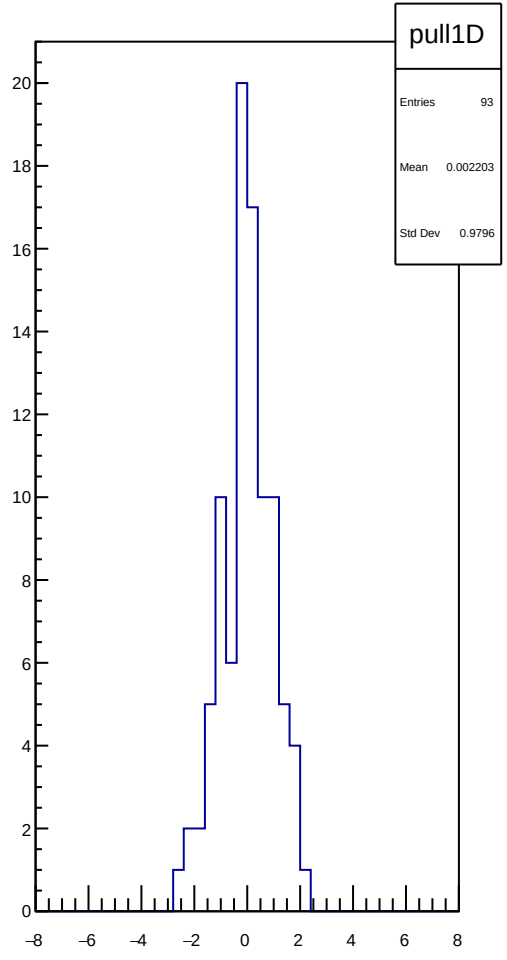

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 92
p0 77.58 ± 0.06033
300
250
200
150
100
50

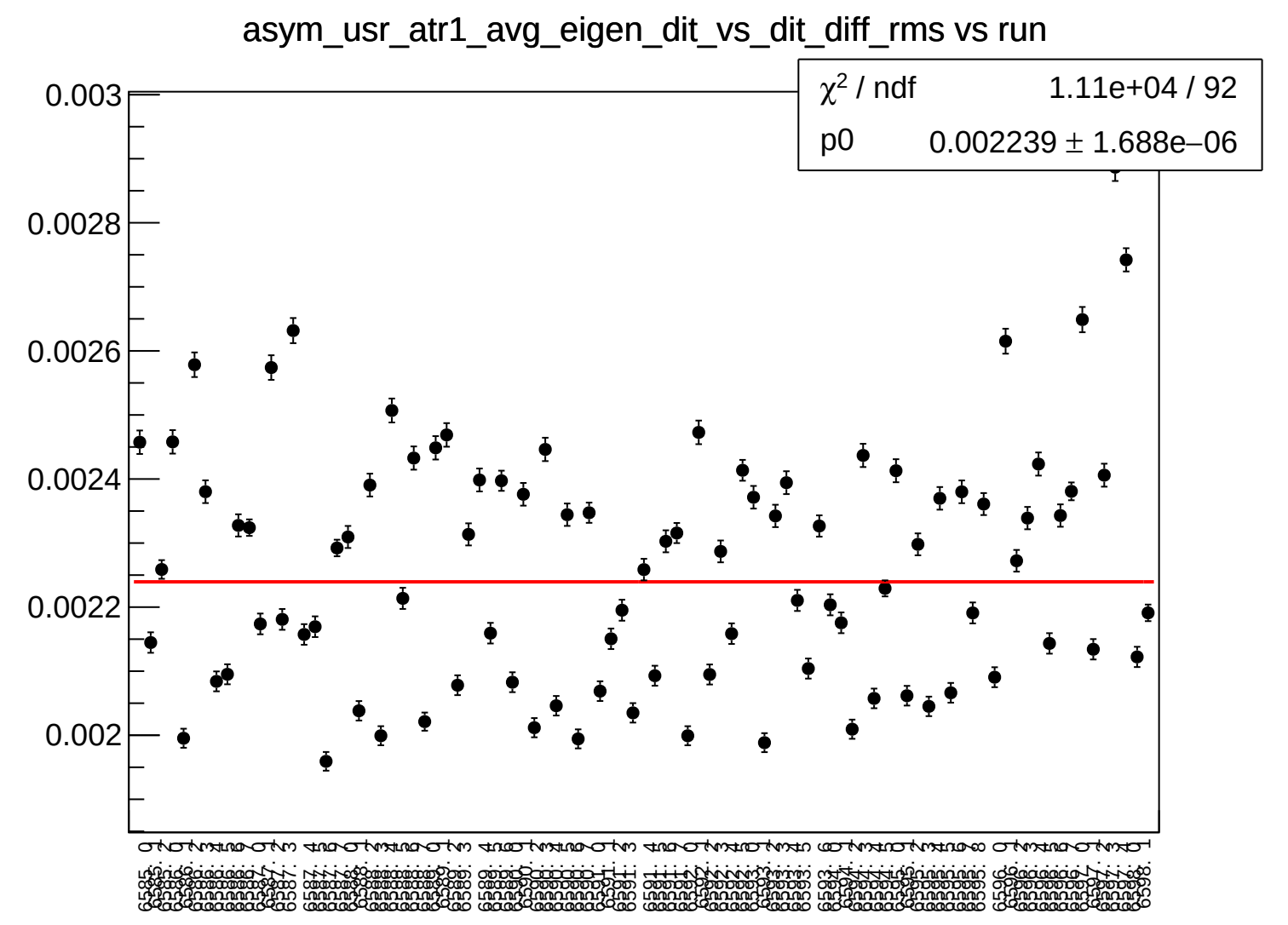

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.49 / 92
p0 −0.1043 ± 0.08531
pull
Entries 93
Mean −13.78
Std Dev 0

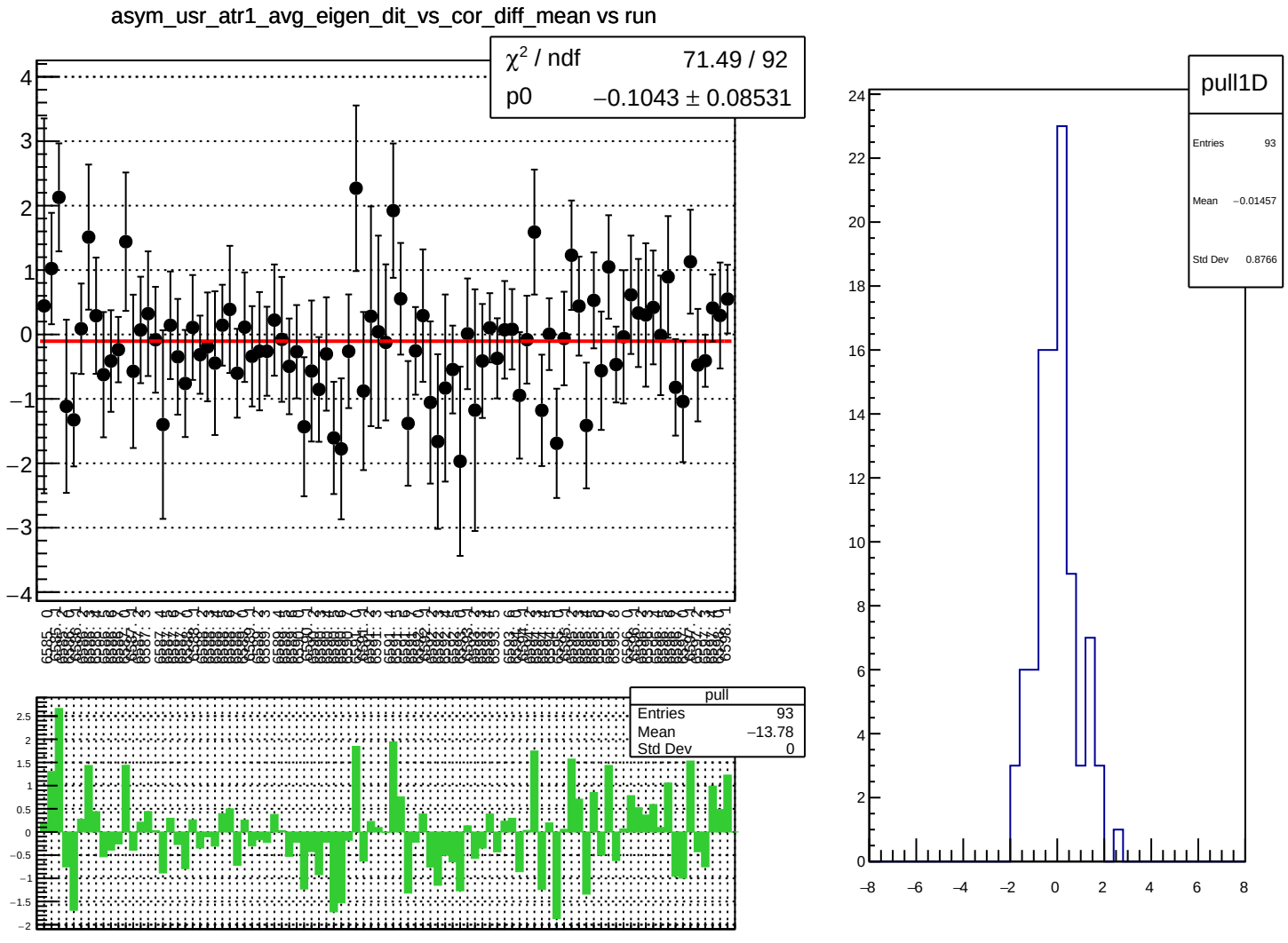

pull1D
Entries 93
Mean −0.01457
Std Dev 0.8766

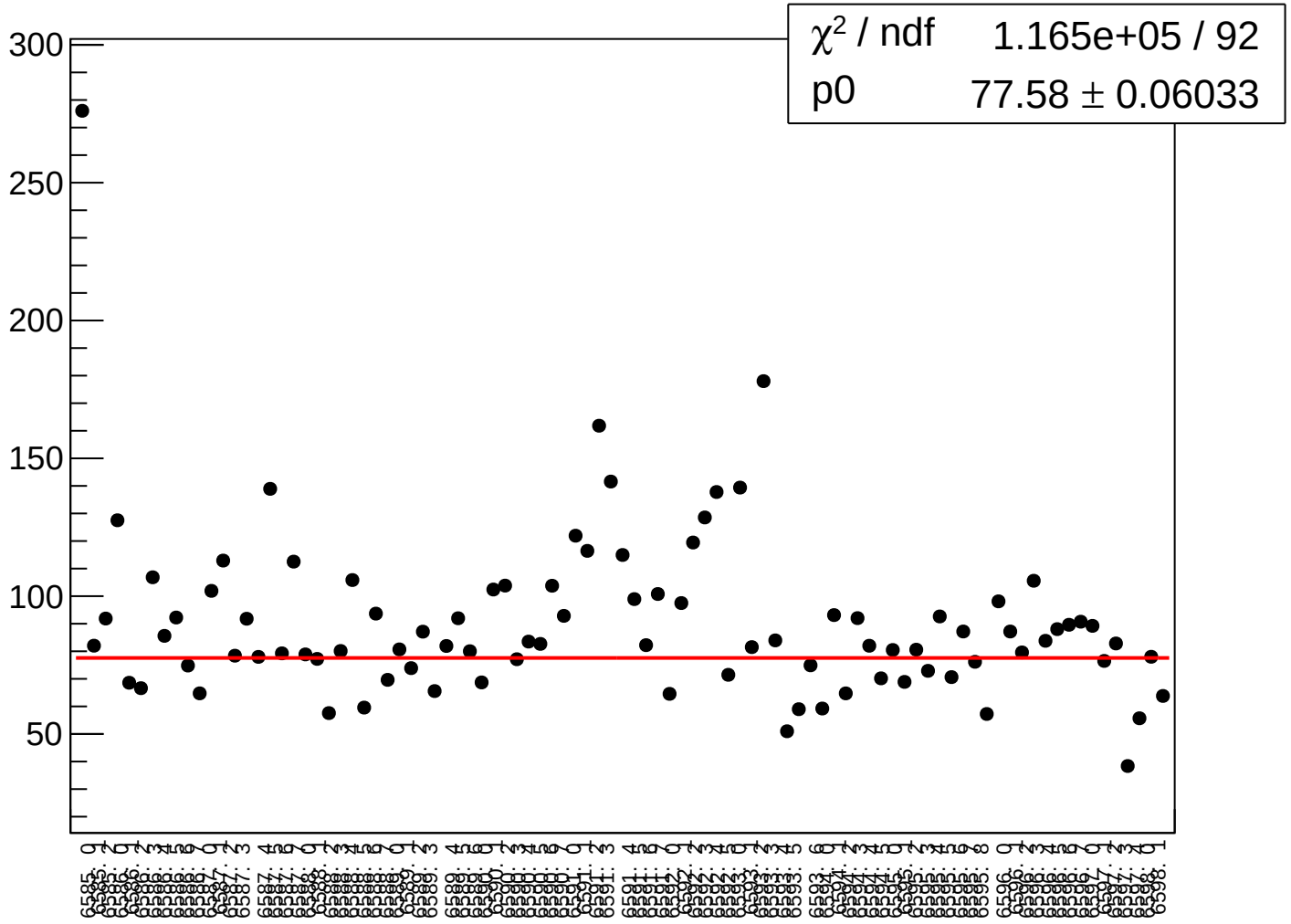

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 92
p0 77.58 ± 0.06033
300
250
200
150
100
50

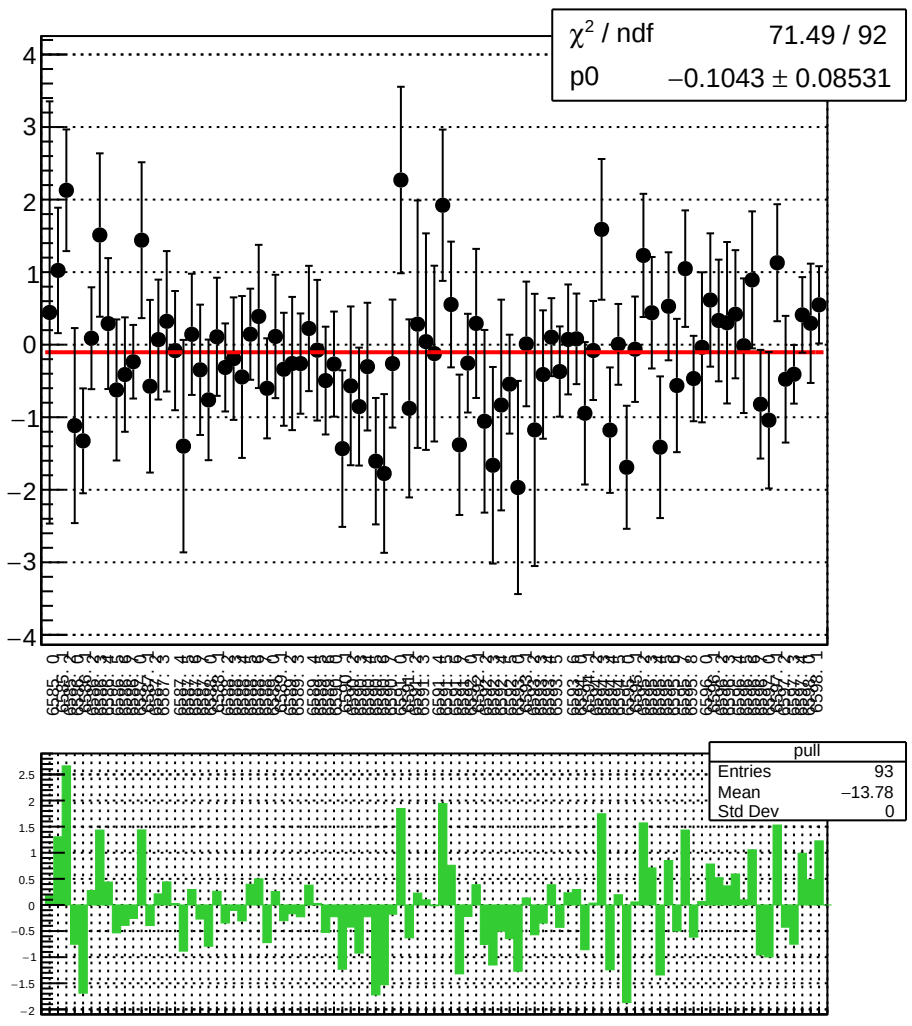

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.25 / 92
p0 2.458e−06 ± 2.388e−06
pull
Entries 93
Mean 394.6
Std Dev 0

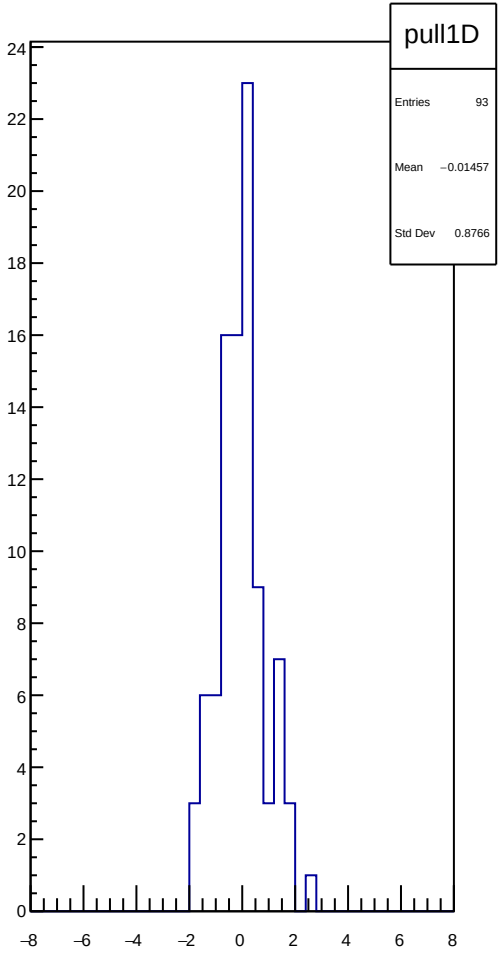

pull1D
Entries 93
Mean 0.002203
Std Dev 0.9796

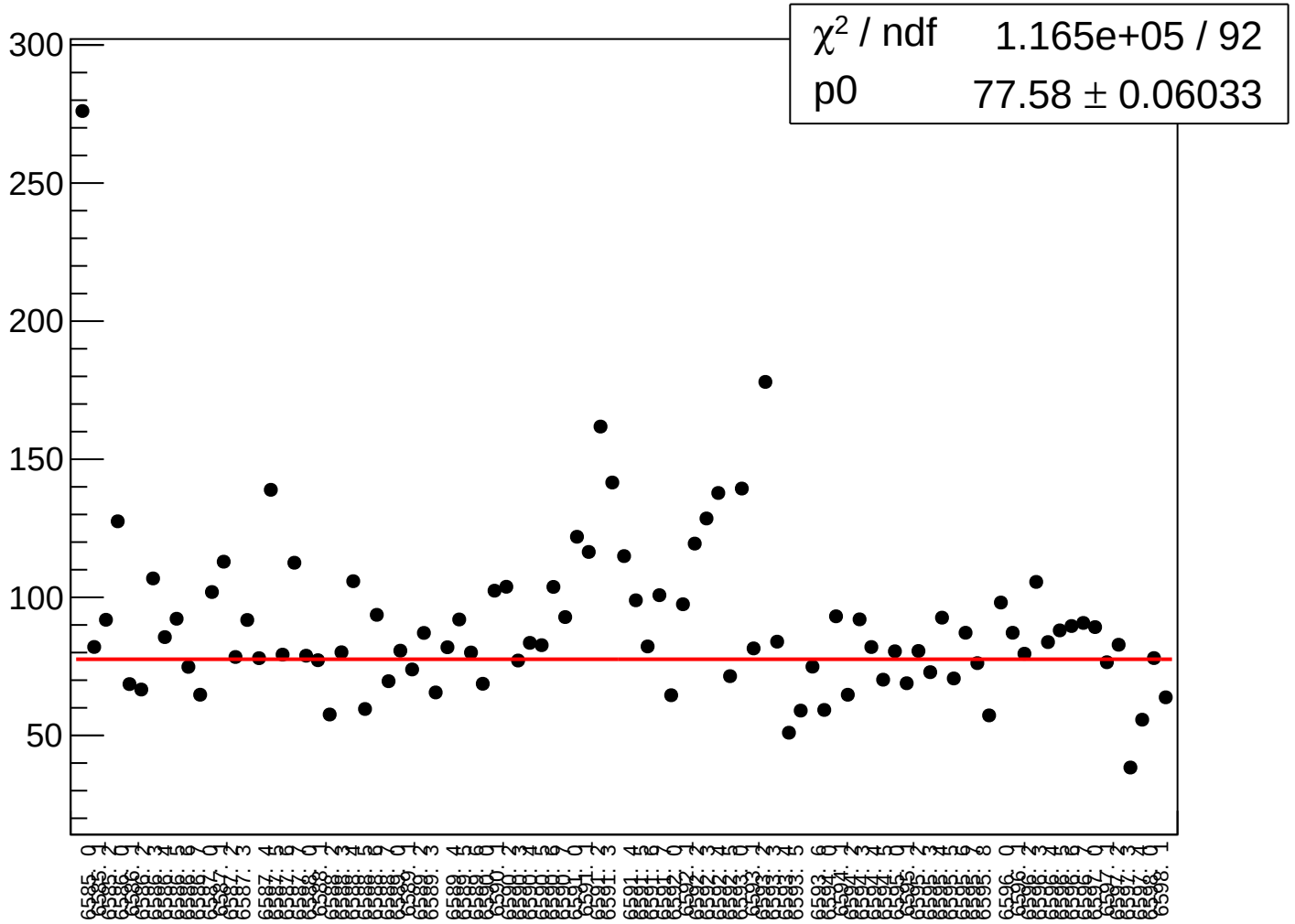

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.11e+04 / 92
p0 0.002239 ± 1.688e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

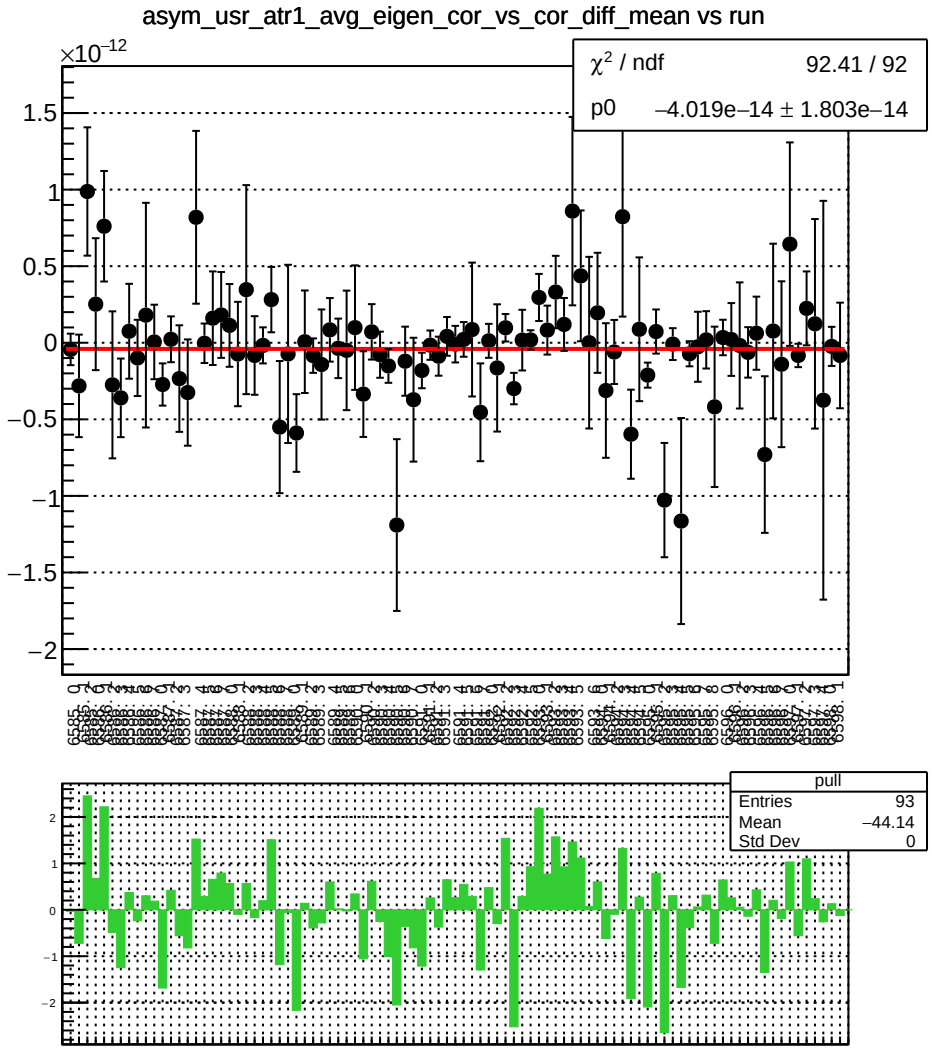

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.49 / 92
p0 −0.1043 ± 0.08531
pull
Entries 93
Mean −13.78
Std Dev 0
pull1D
Entries 93
Mean −0.01457
Std Dev 0.8766

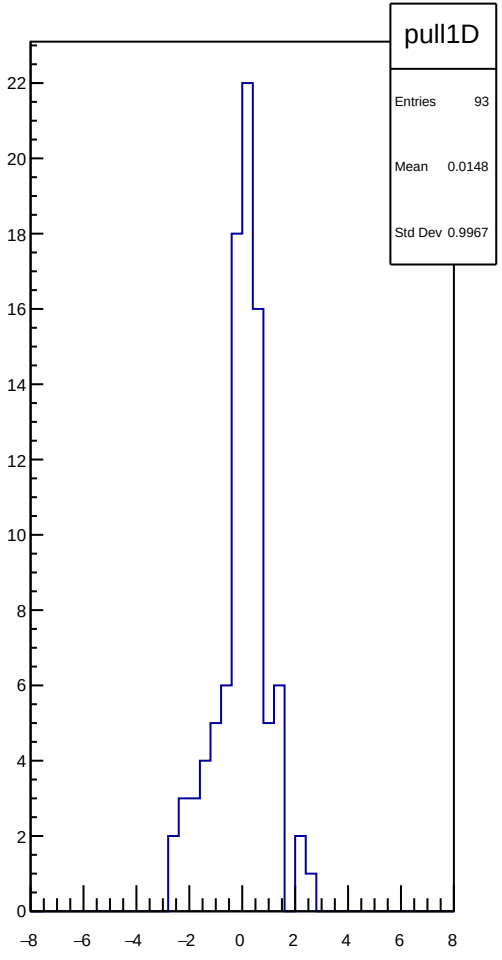

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 92
p0 77.58 ± 0.06033
300
250
200
150
100
50

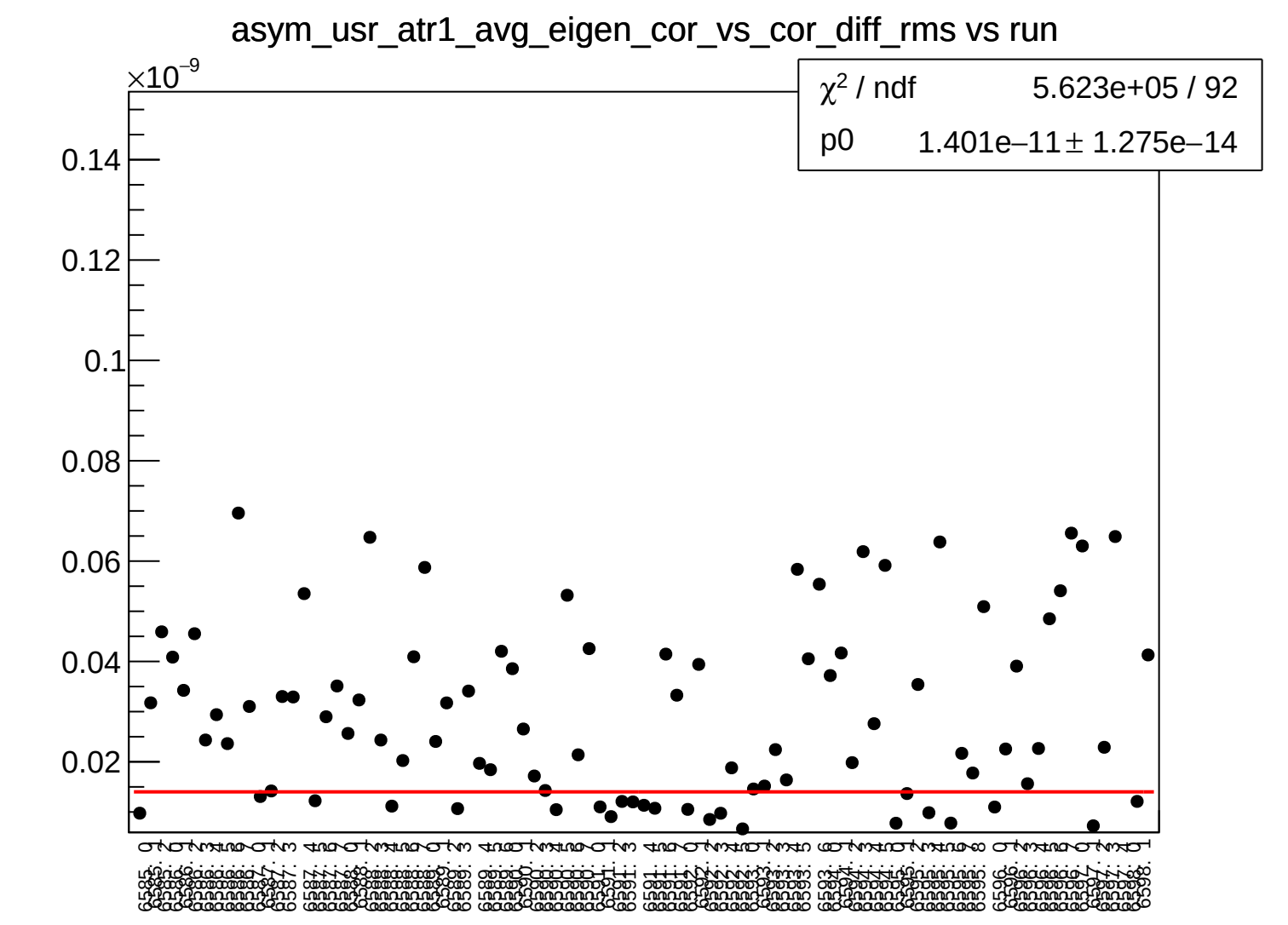

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.49 / 92
p0 −0.1043 ± 0.08531
pull
Entries 93
Mean −13.78
Std Dev 0

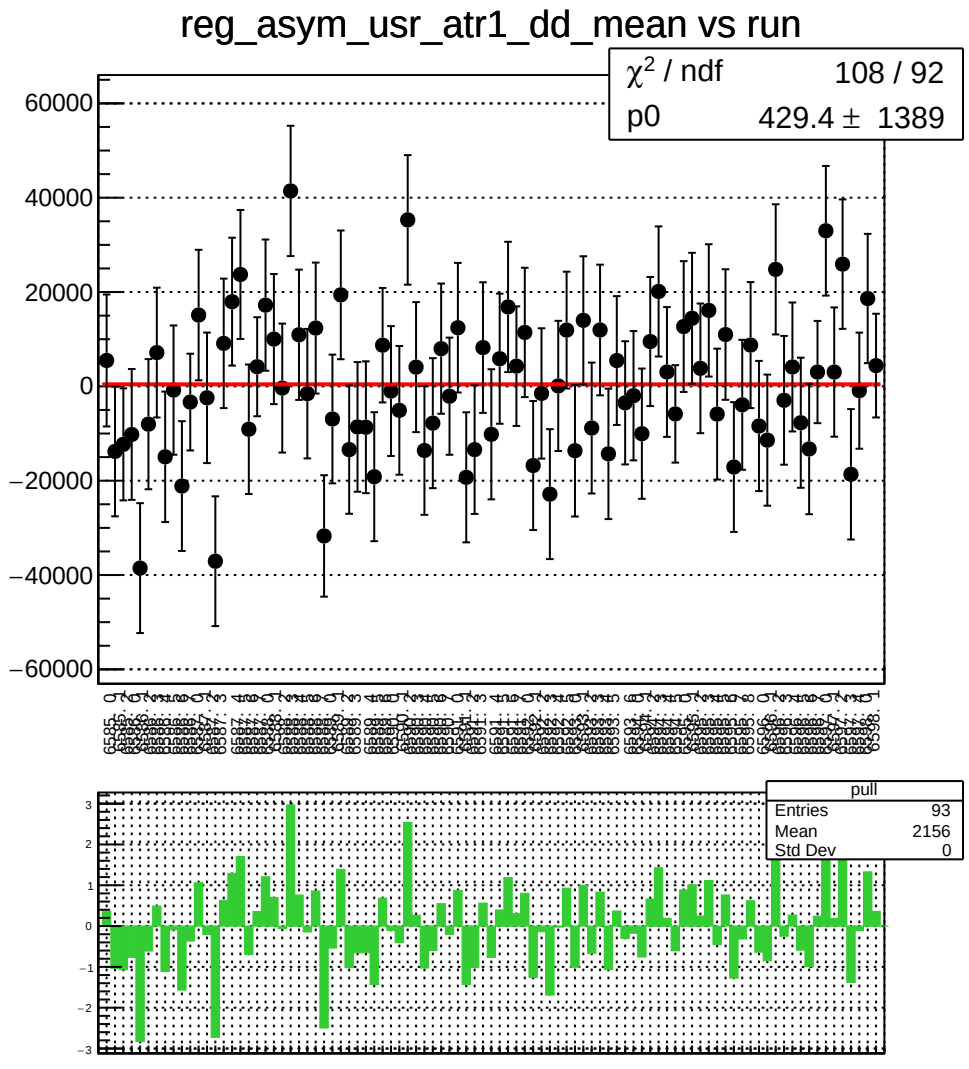

pull1D
Entries 93
Mean −0.01457
Std Dev 0.8766

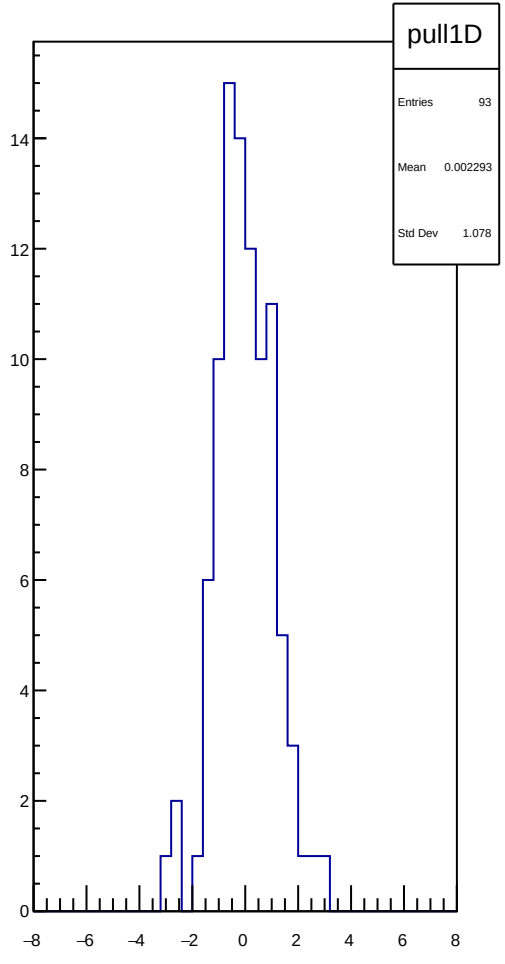

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+05 / 92
p0 77.58 ± 0.06033
300
250
200
150
100
50

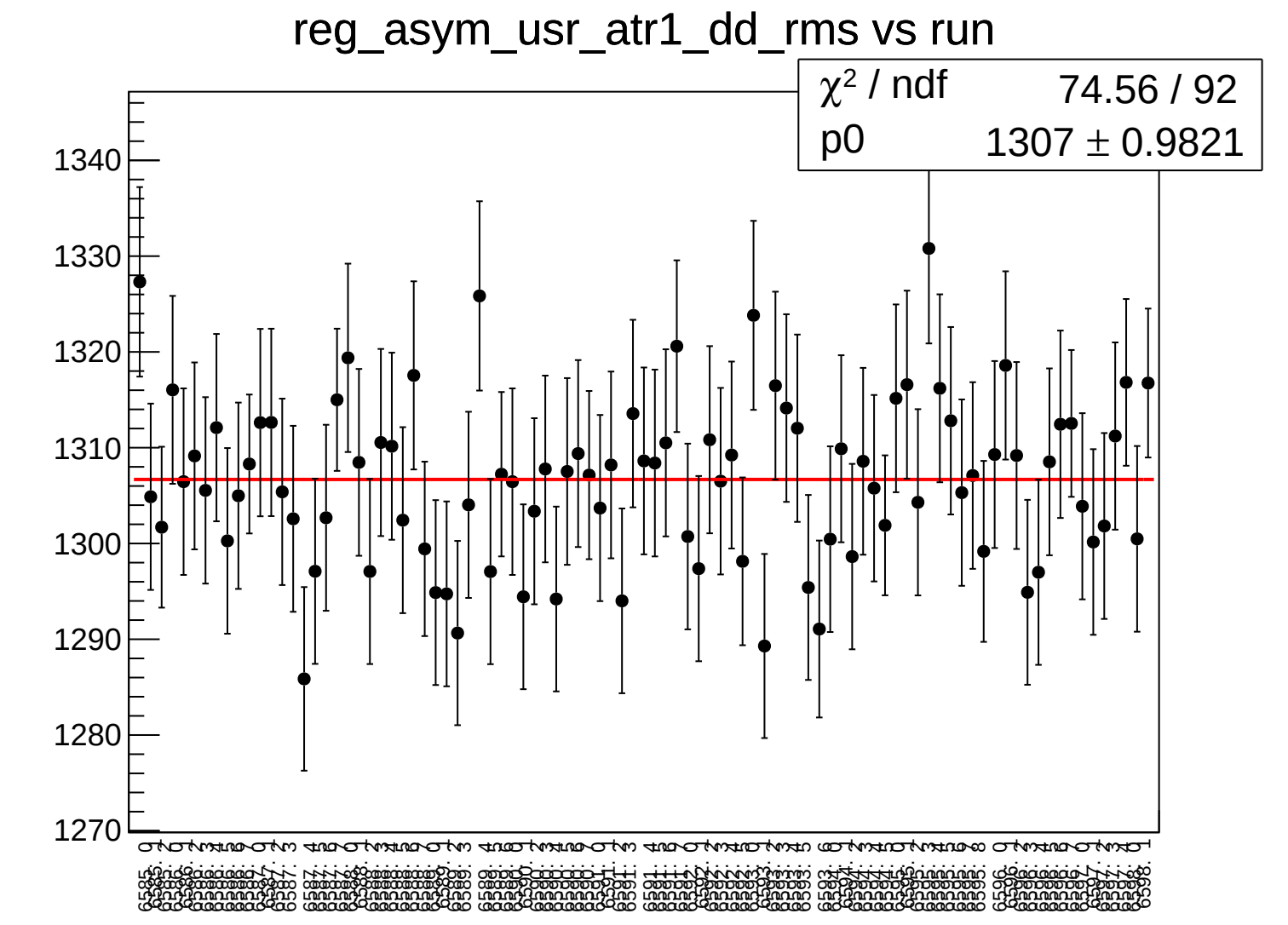

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 92.41 / 92
p0 −4.019e−14 ± 1.803e−14
pull
Entries 93
Mean −44.14
Std Dev 0

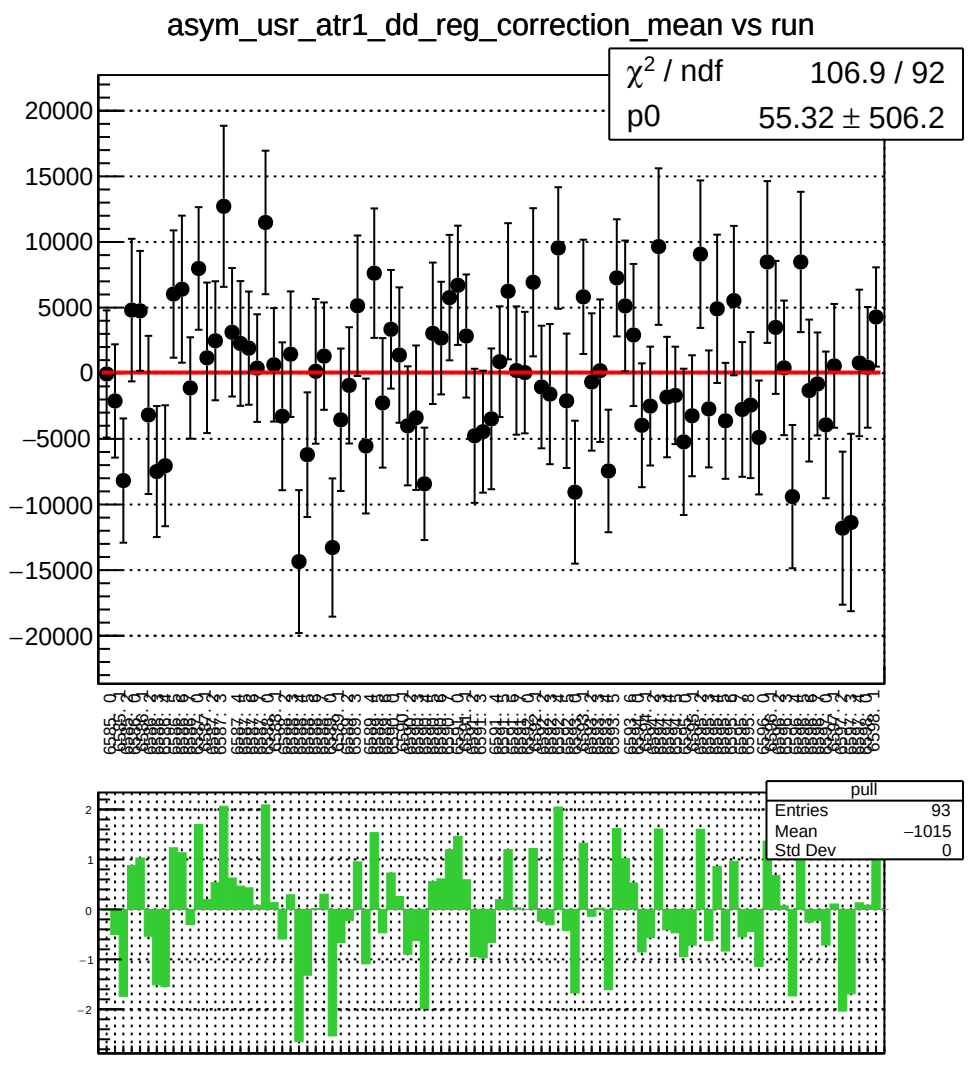

pull1D
Entries 93
Mean 0.0148
Std Dev 0.9967

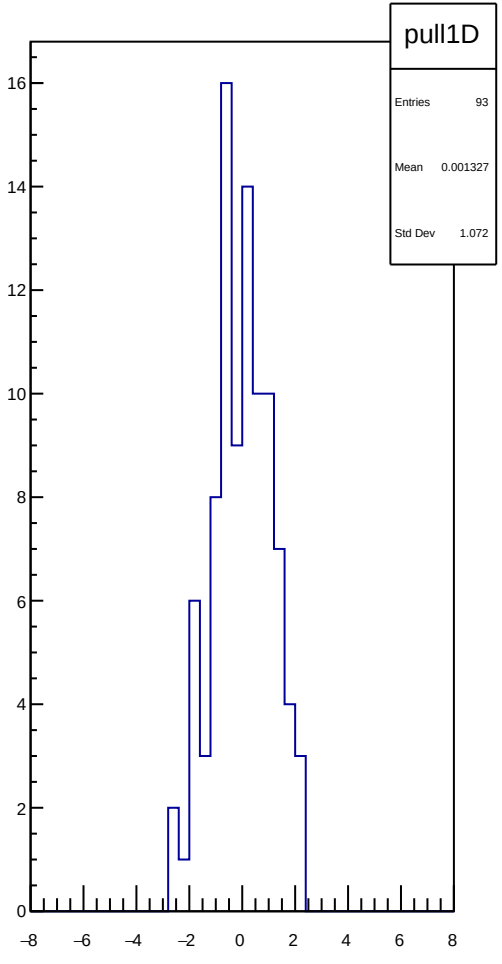

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.623e+05 / 92
p0 1.401e−11 ± 1.275e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

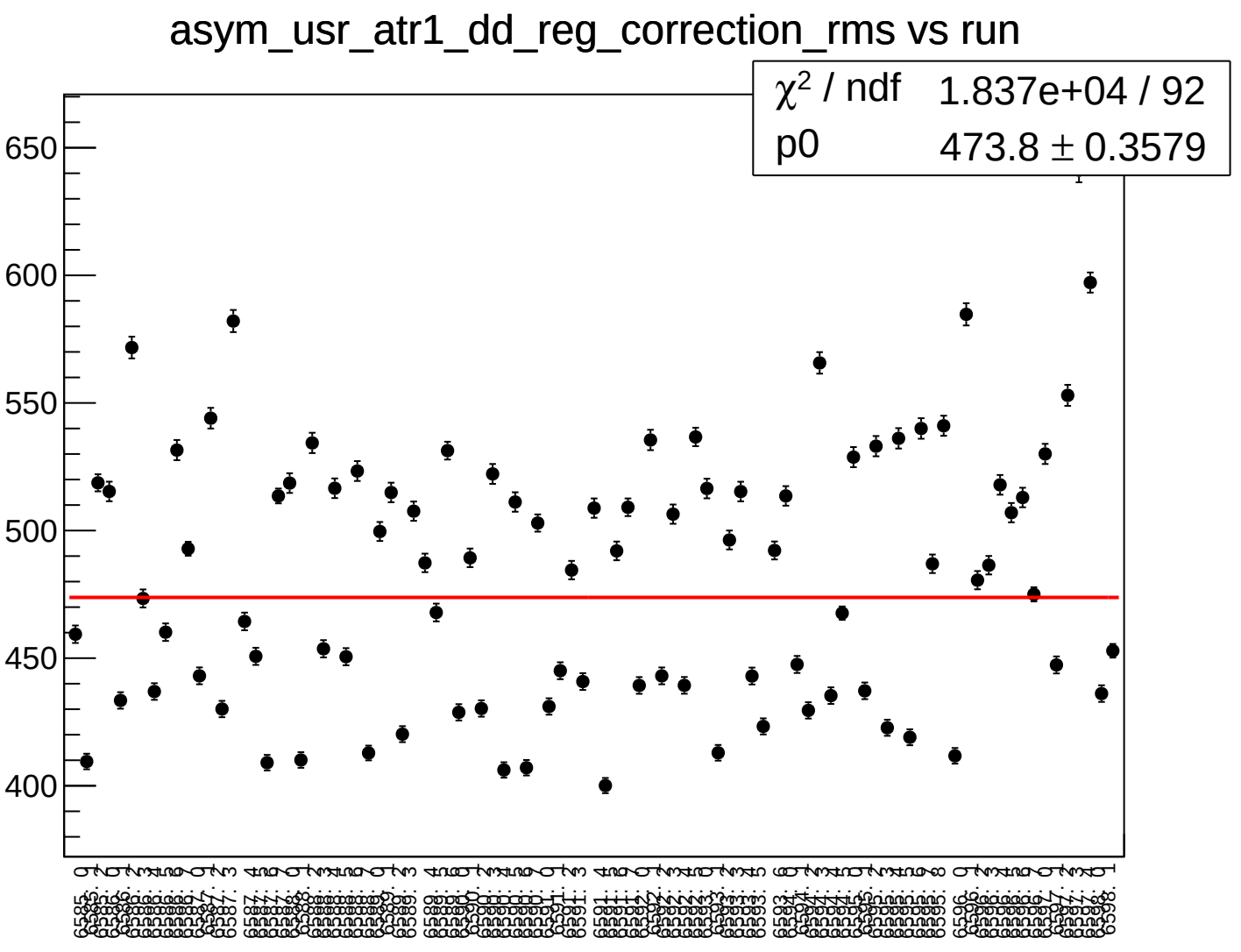

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 108 / 92
p0 429.4 ± 1389
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2156
Std Dev 0
3
2
1
0
−1
−2
−3

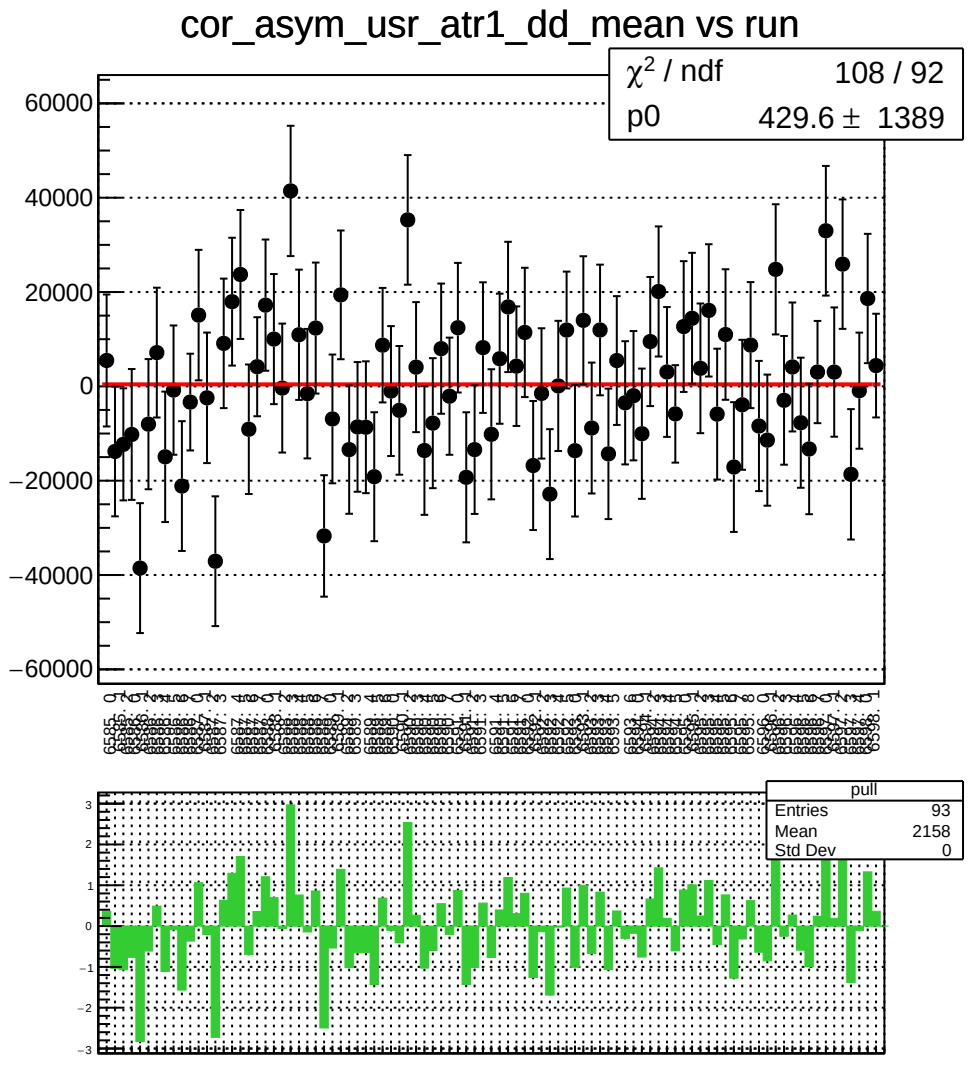

pull1D
Entries 93
Mean 0.002293
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

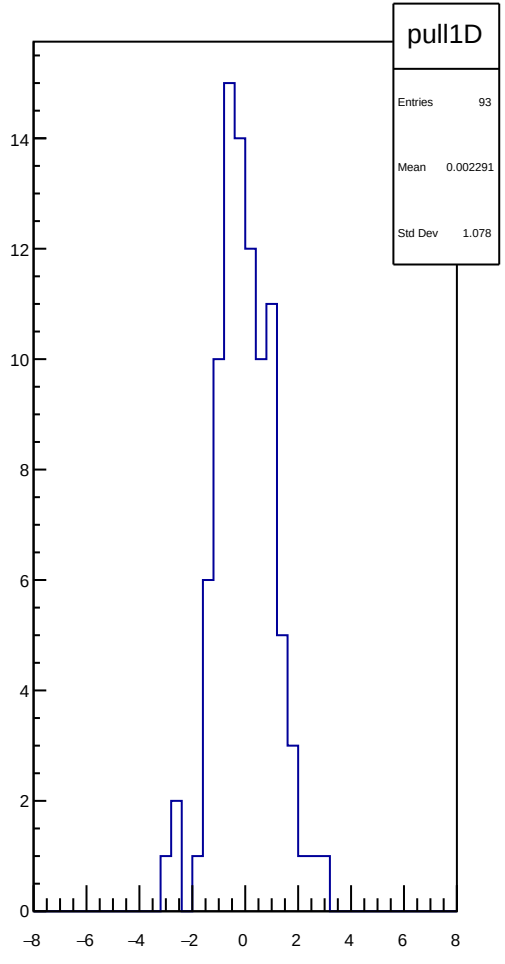

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 74.56 / 92
p0 1307 ± 0.9821
1340
1330
1320
1310
1300
1290
1280
1270

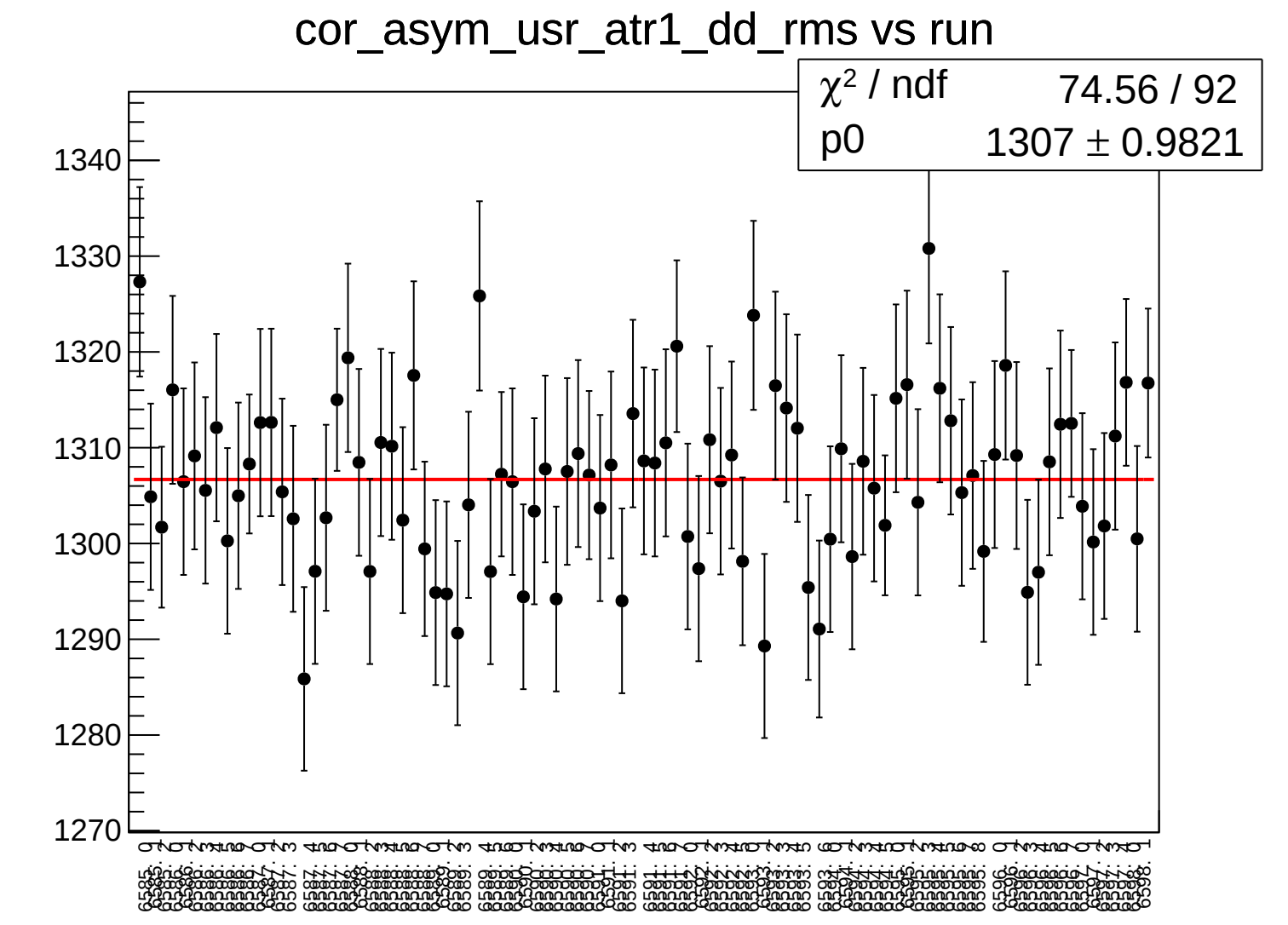

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 106.9 / 92
p0 55.32 ± 506.2
pull
Entries 93
Mean −1015
Std Dev 0

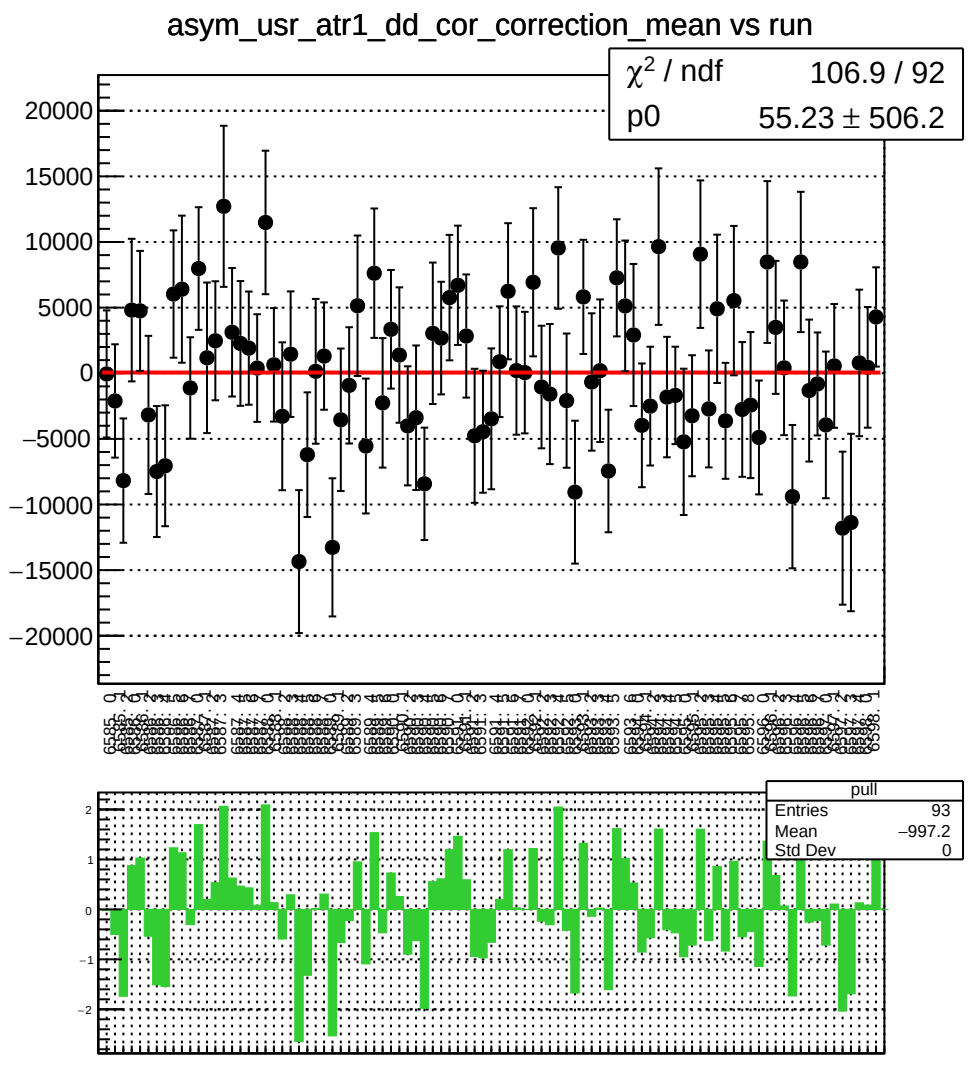

pull1D
Entries 93
Mean 0.001327
Std Dev 1.072

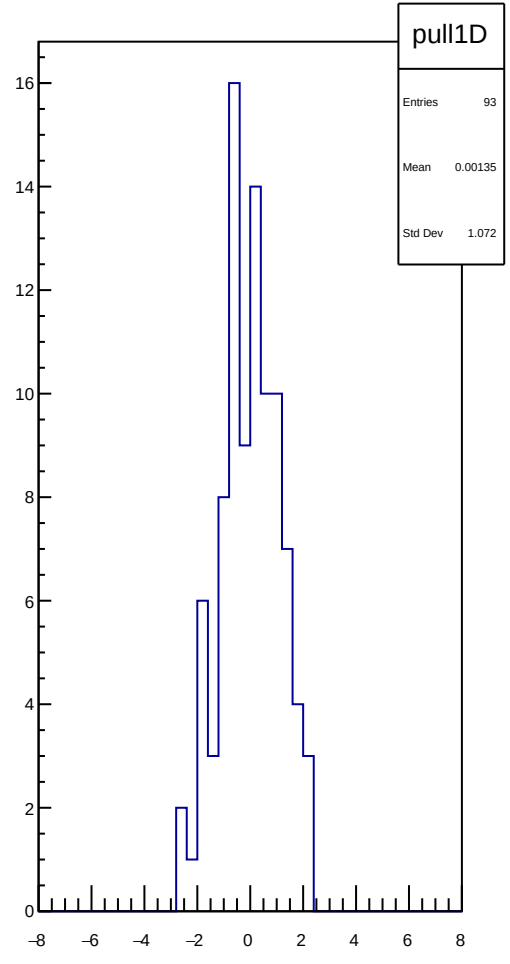

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.837e+04 / 92
p0 473.8 ± 0.3579
650
600
550
500
450
400

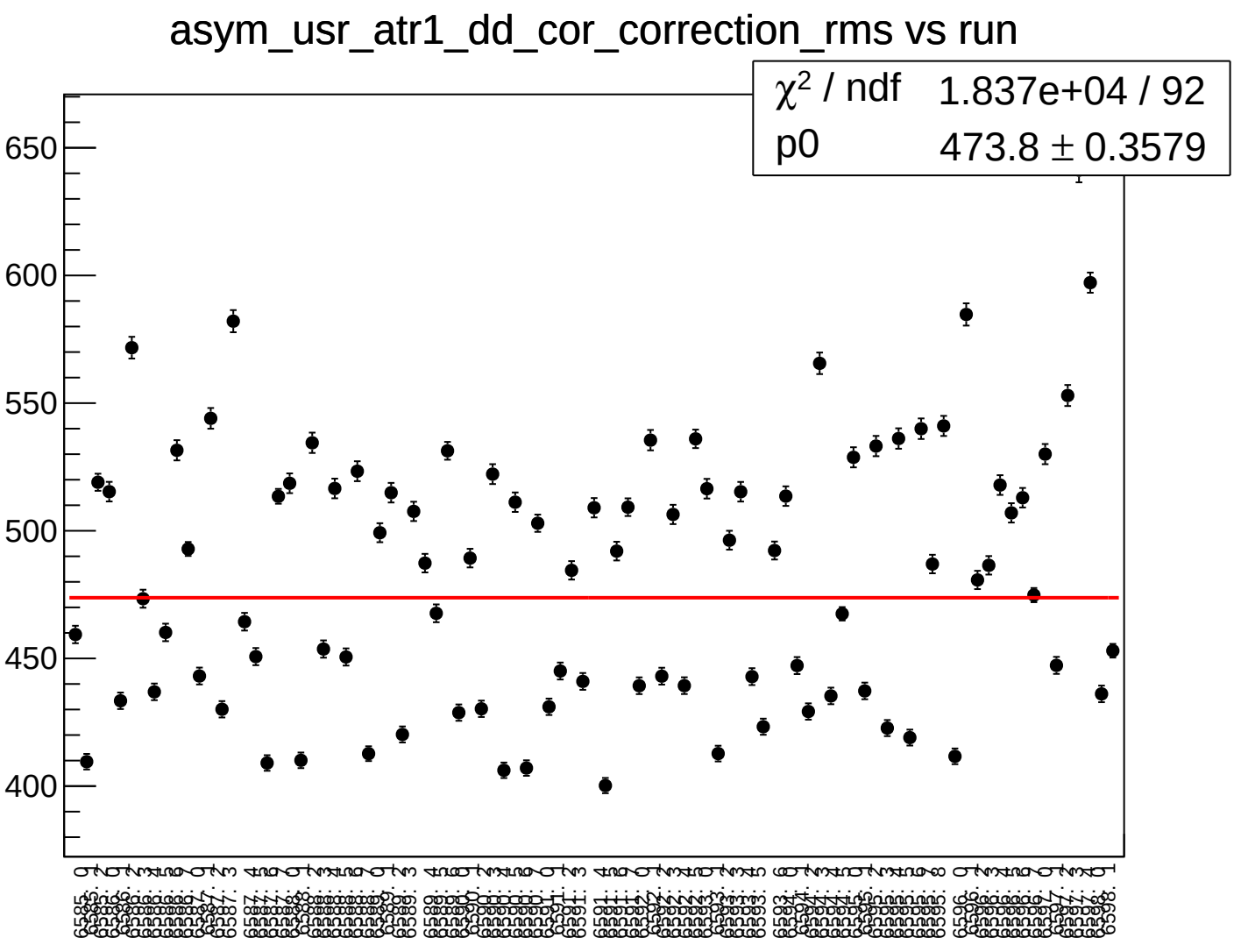

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 108 / 92
p0 429.6 ± 1389
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2158
Std Dev 0
3
2
1
0
−1
−2
−3

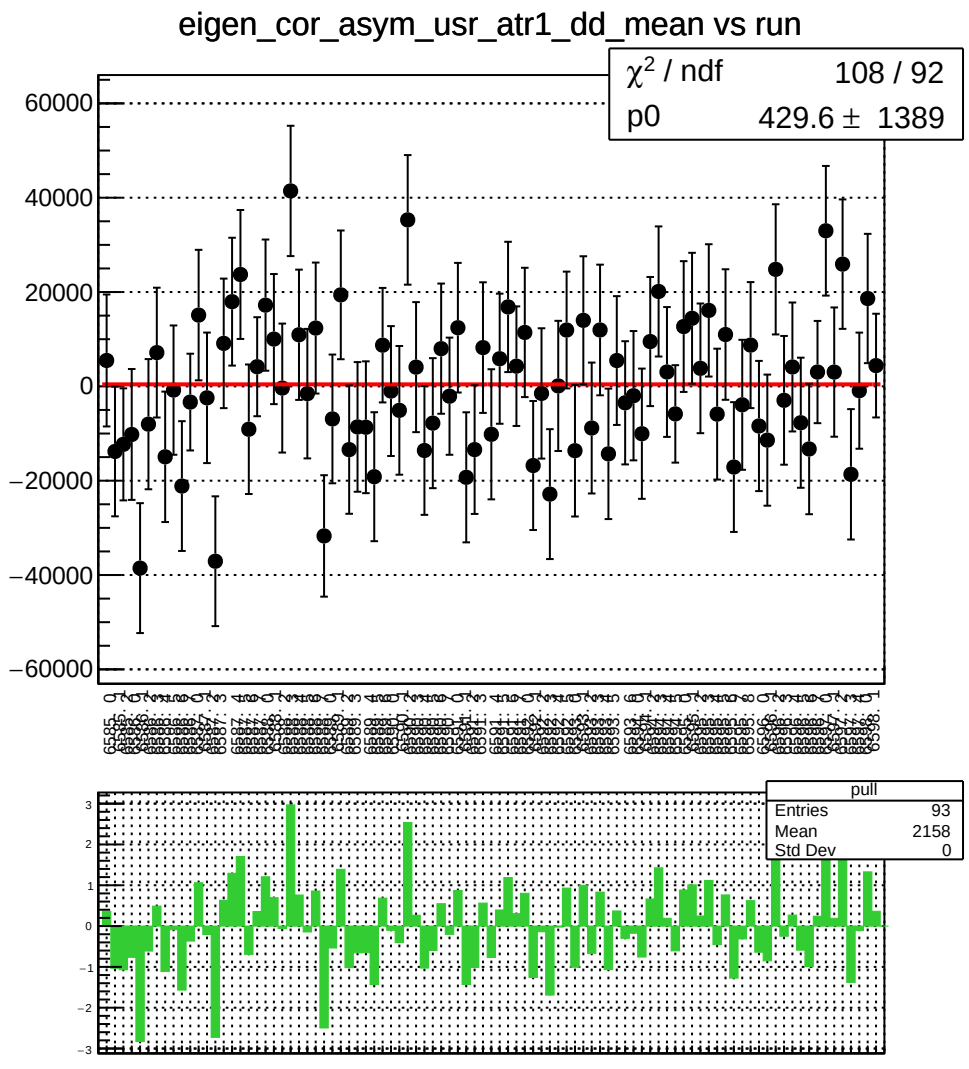

pull1D
Entries 93
Mean 0.002291
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

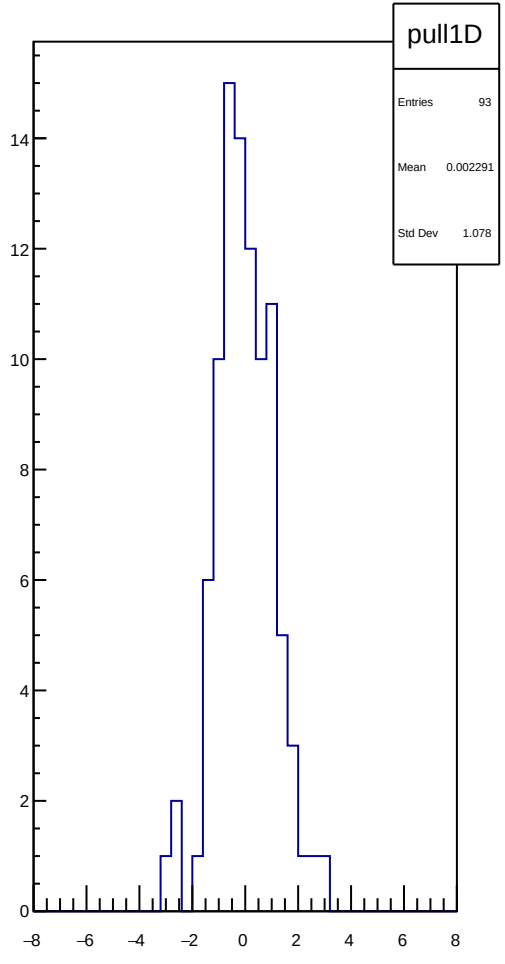

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 74.56 / 92
p0 1307 ± 0.9821
1340
1330
1320
1310
1300
1290
1280
1270


asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 106.9 / 92
p0 55.23 ± 506.2
pull
Entries 93
Mean −997.2
Std Dev 0


pull1D
Entries 93
Mean 0.00135
Std Dev 1.072


asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.837e+04 / 92
p0 473.8 ± 0.3579
650
600
550
500
450
400


eigen_cor_asym_usr_atr1_dd_mean vs run
χ^2 / ndf 108 / 92
p0 429.6 ± 1389
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2158
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean 0.002291
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
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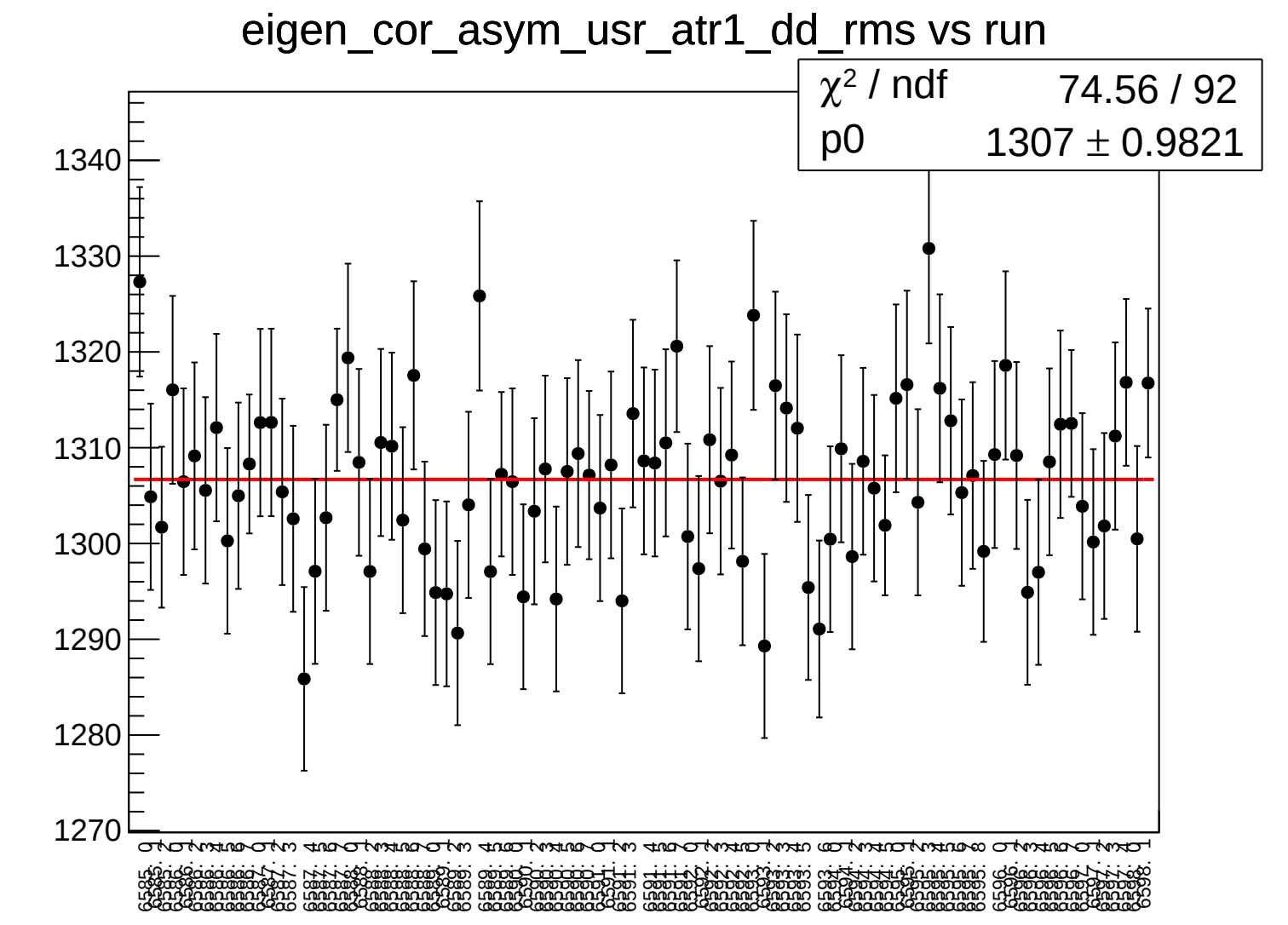
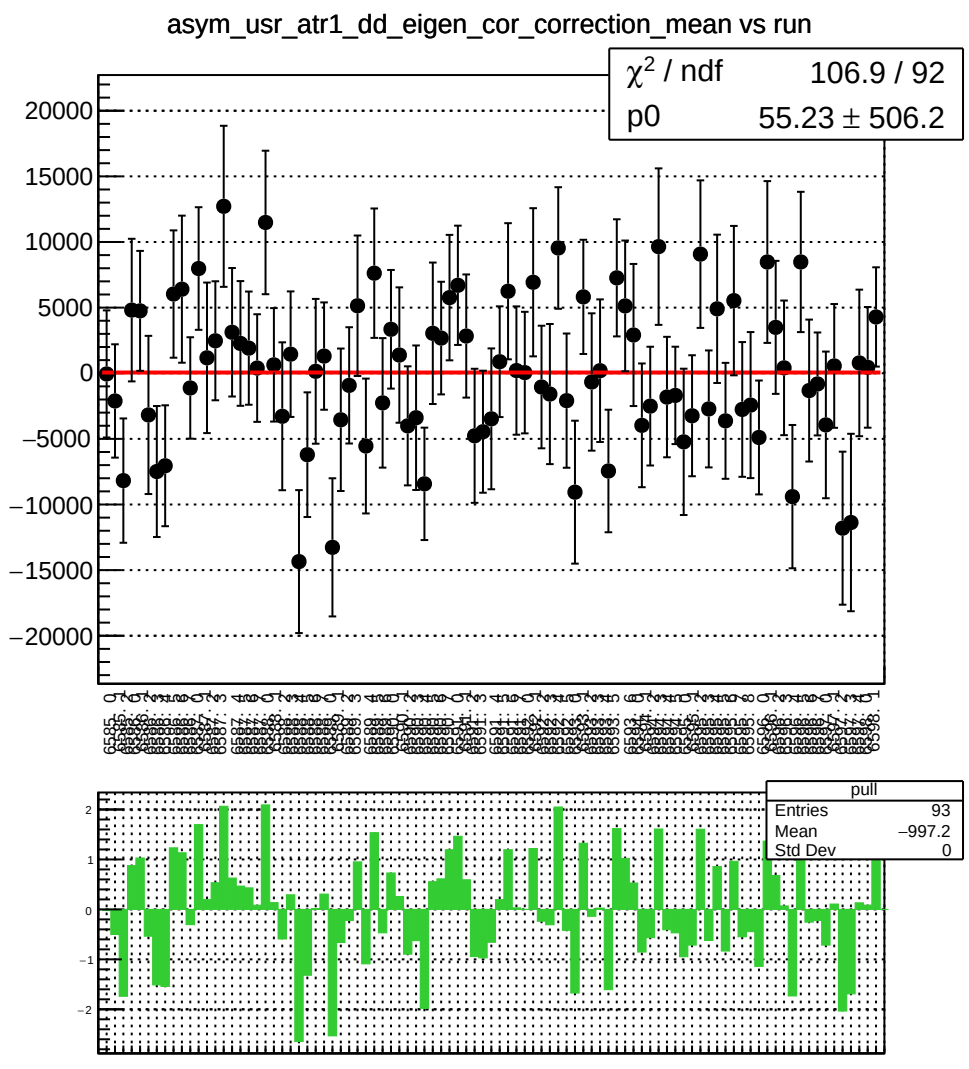
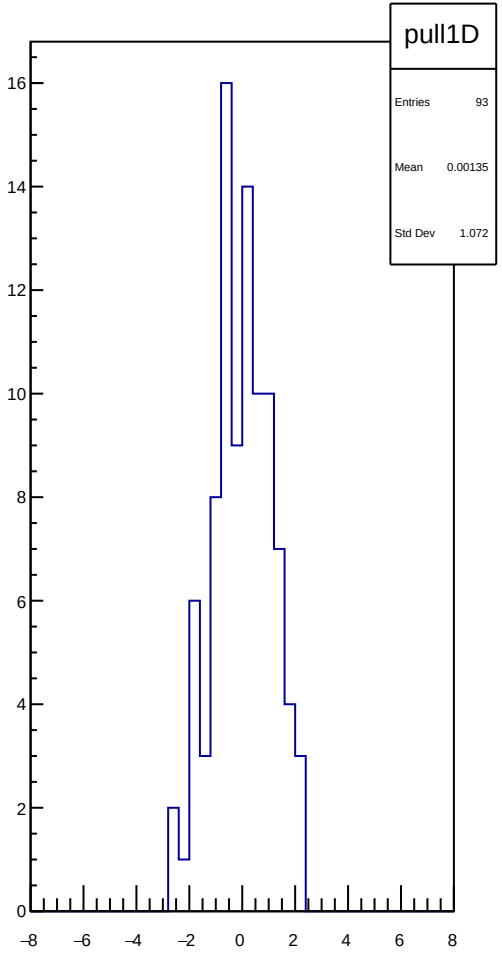
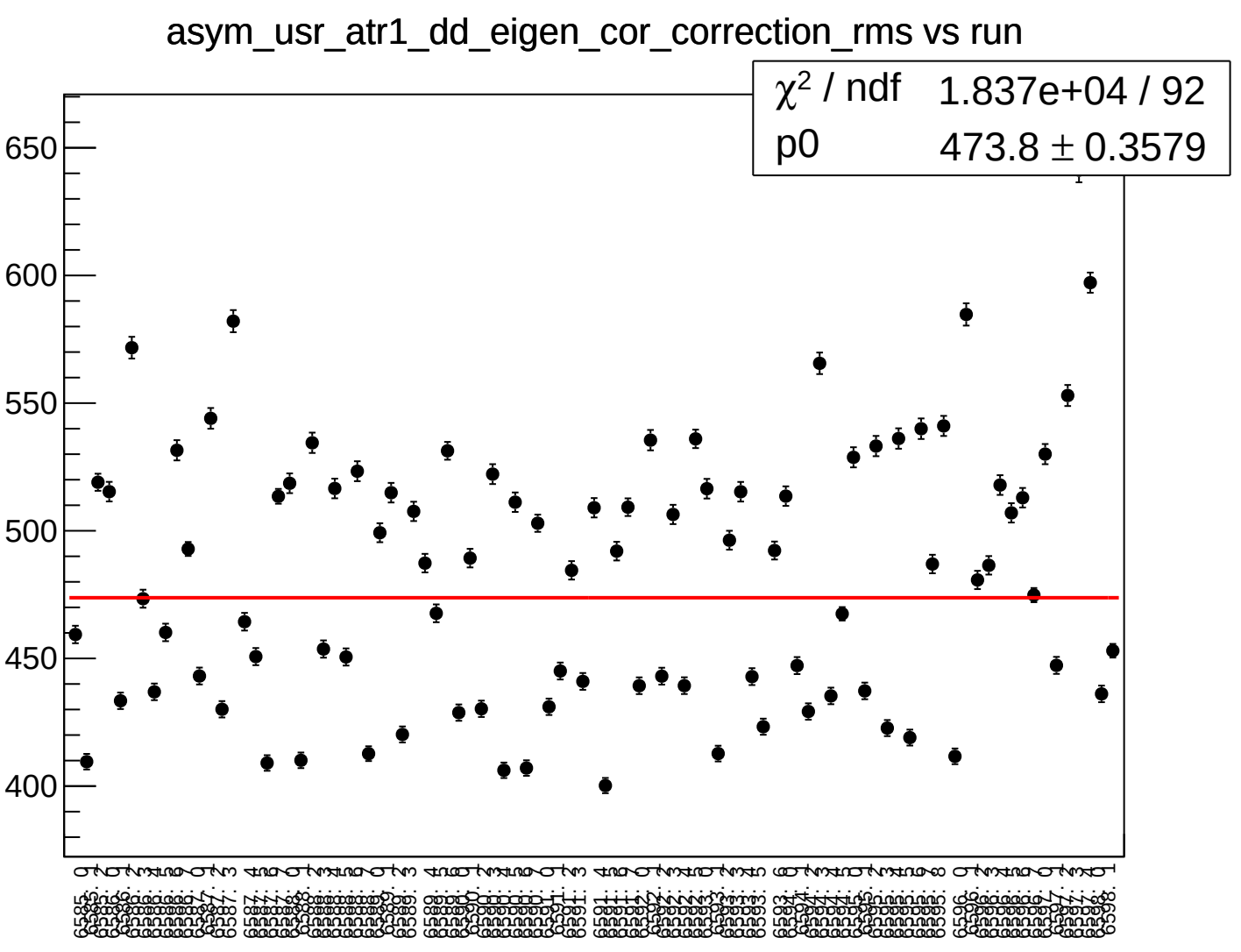
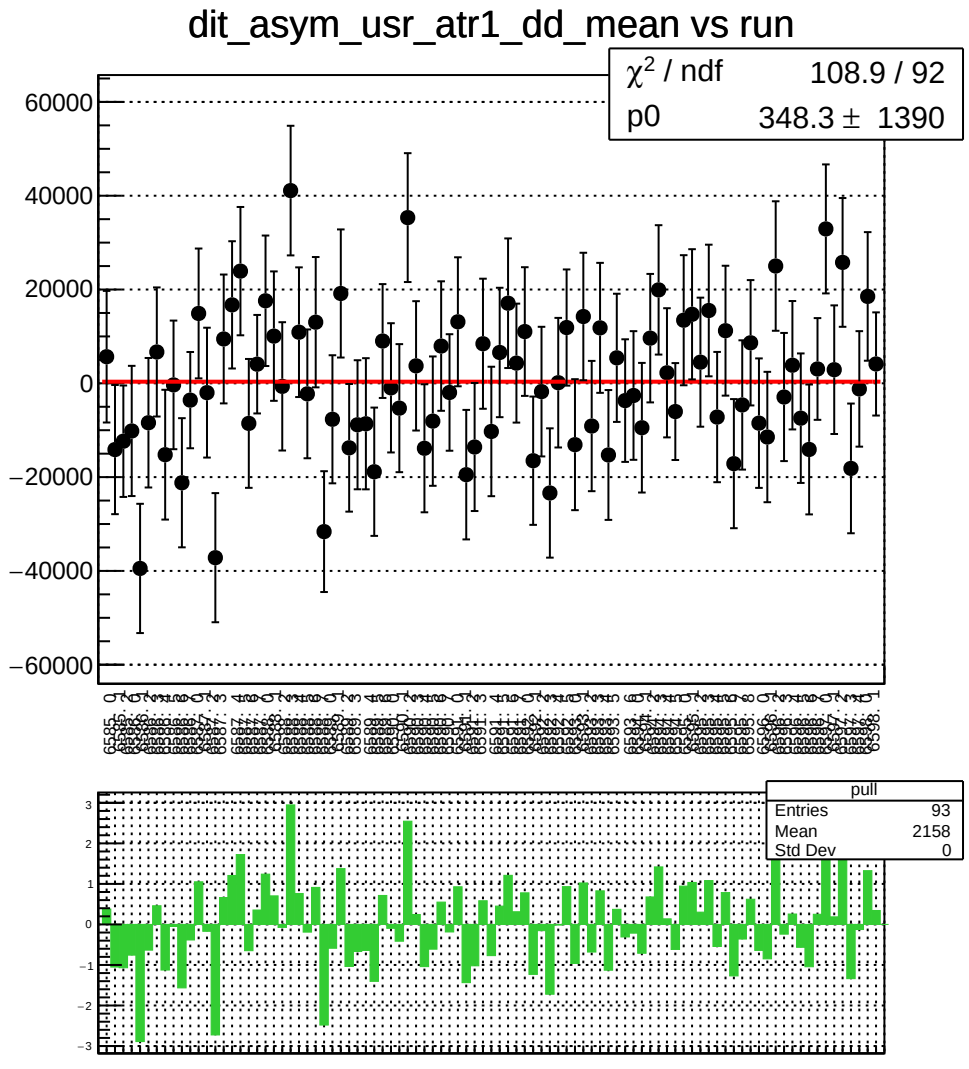
0
2
4
6
8

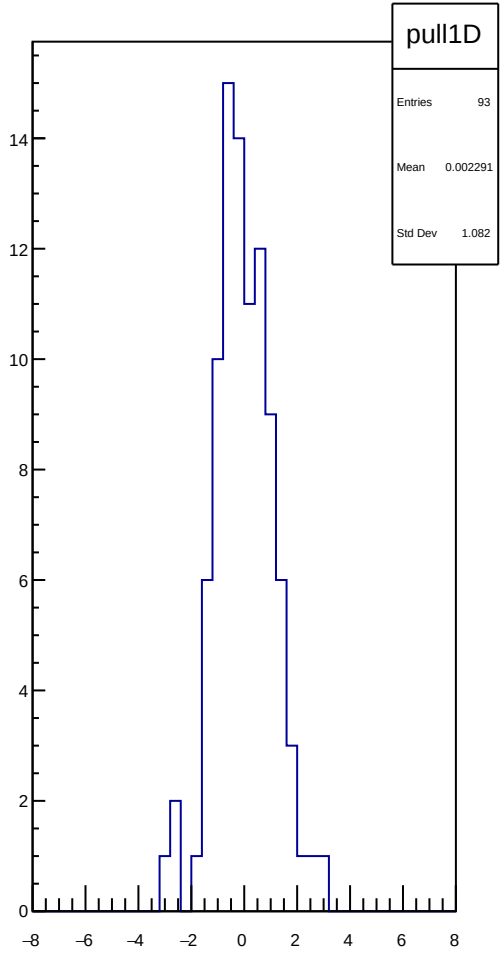

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 74.56 / 92
p0 1307 ± 0.9821
1340
1330
1320
1310
1300
1290
1280
1270

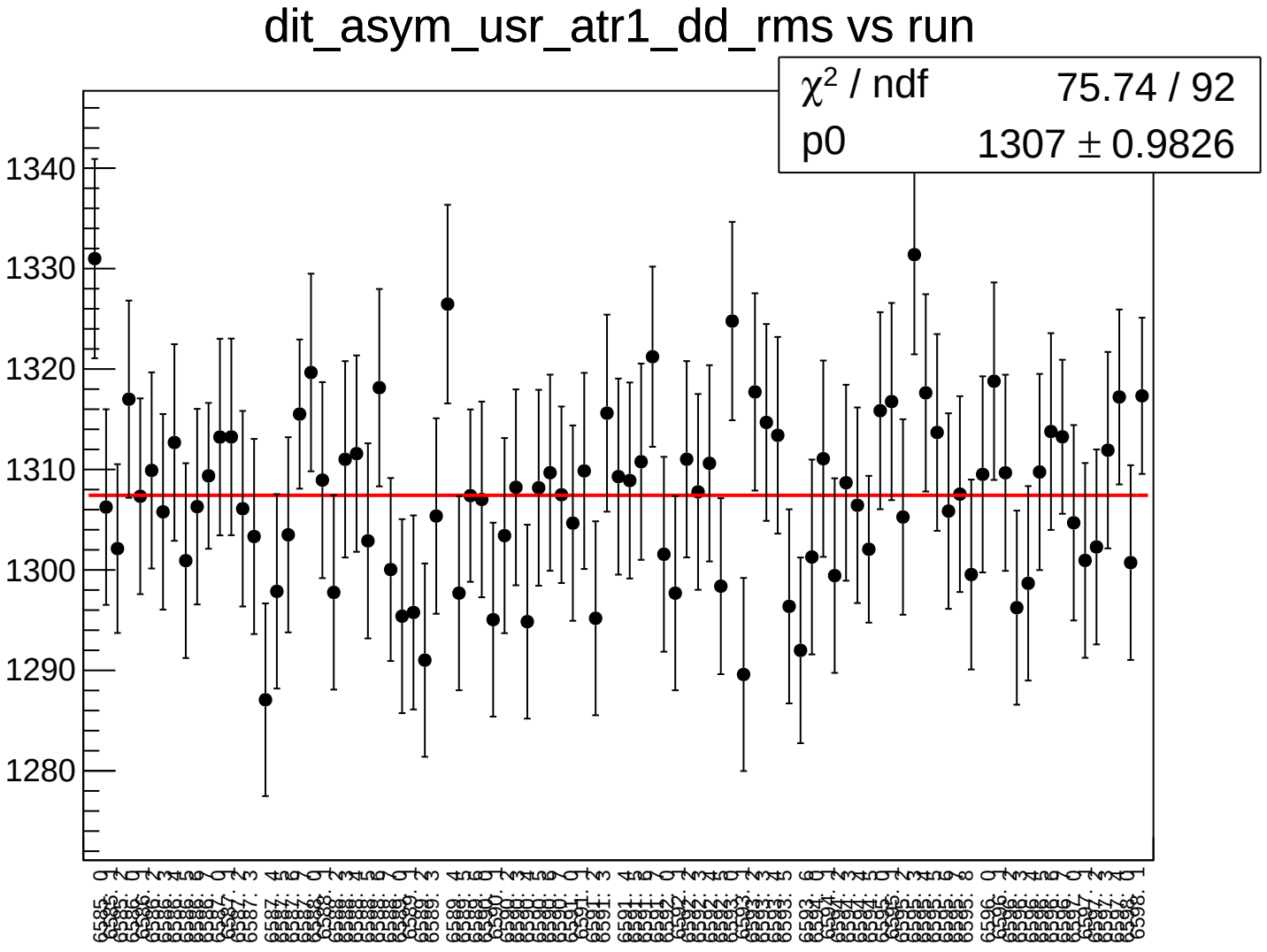

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 106.9 / 92
p0 55.23 ± 506.2
pull
Entries 93
Mean −997.2
Std Dev 0

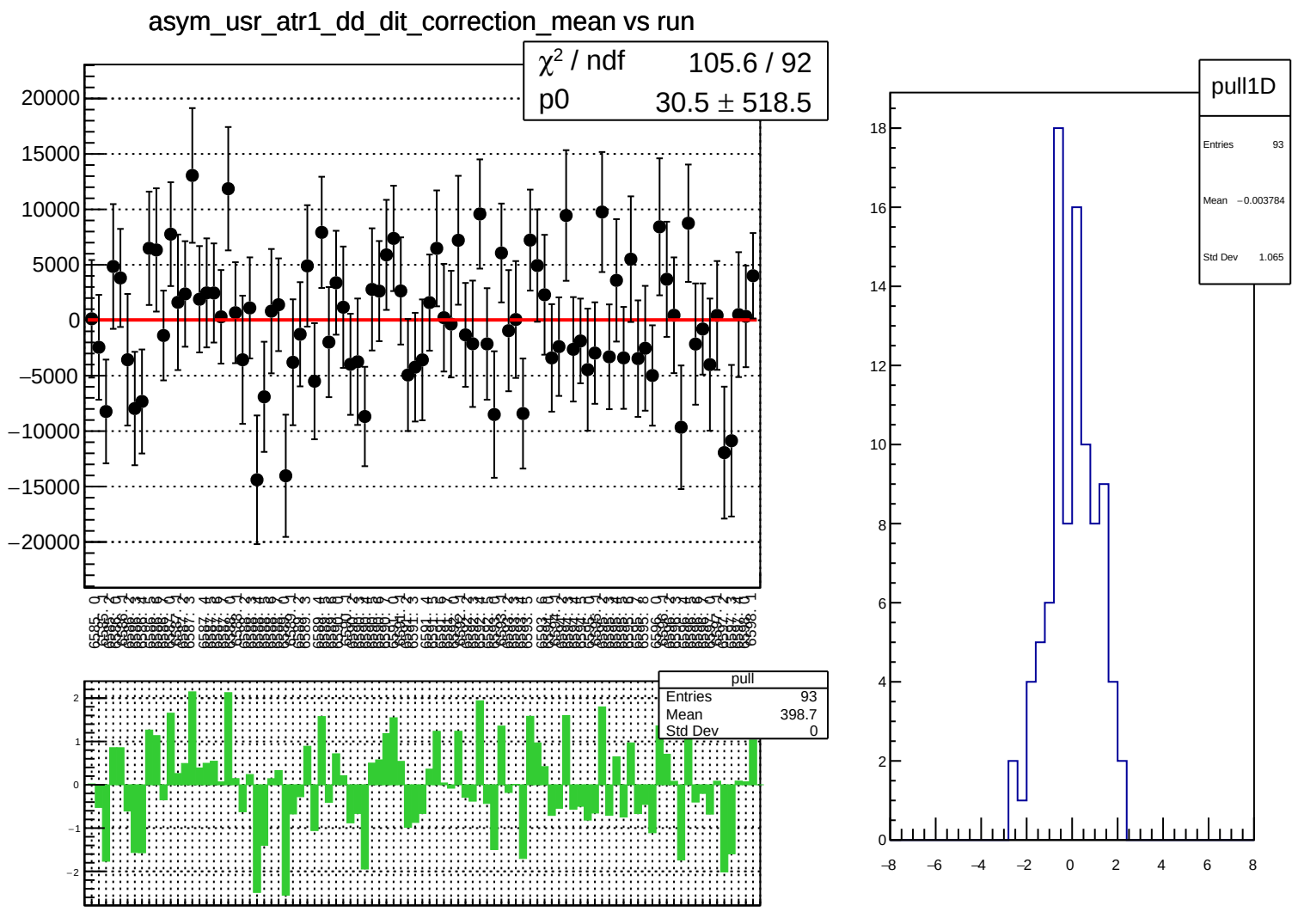

pull1D
Entries 93
Mean 0.00135
Std Dev 1.072

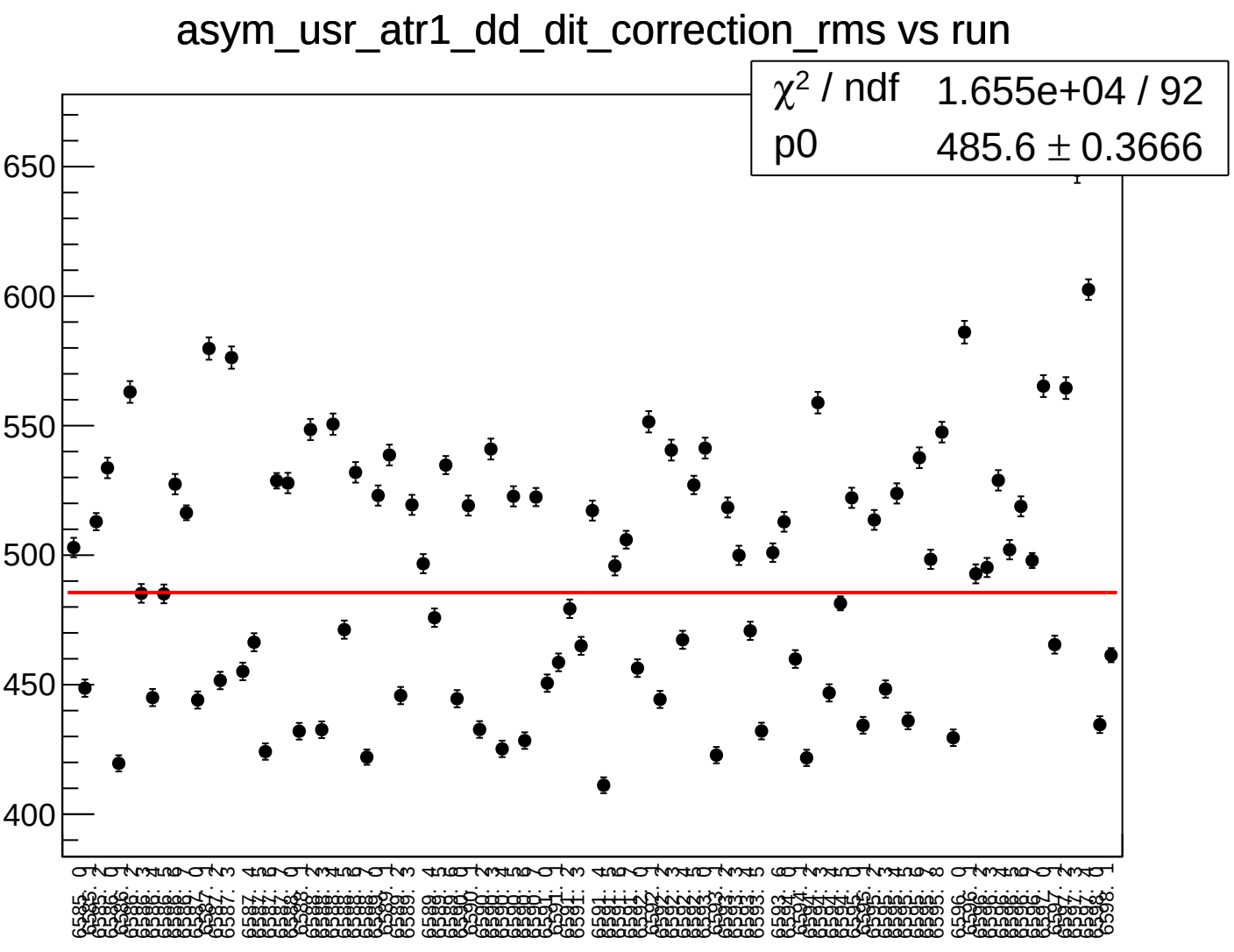

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.837e+04 / 92
p0 473.8 ± 0.3579
650
600
550
500
450
400

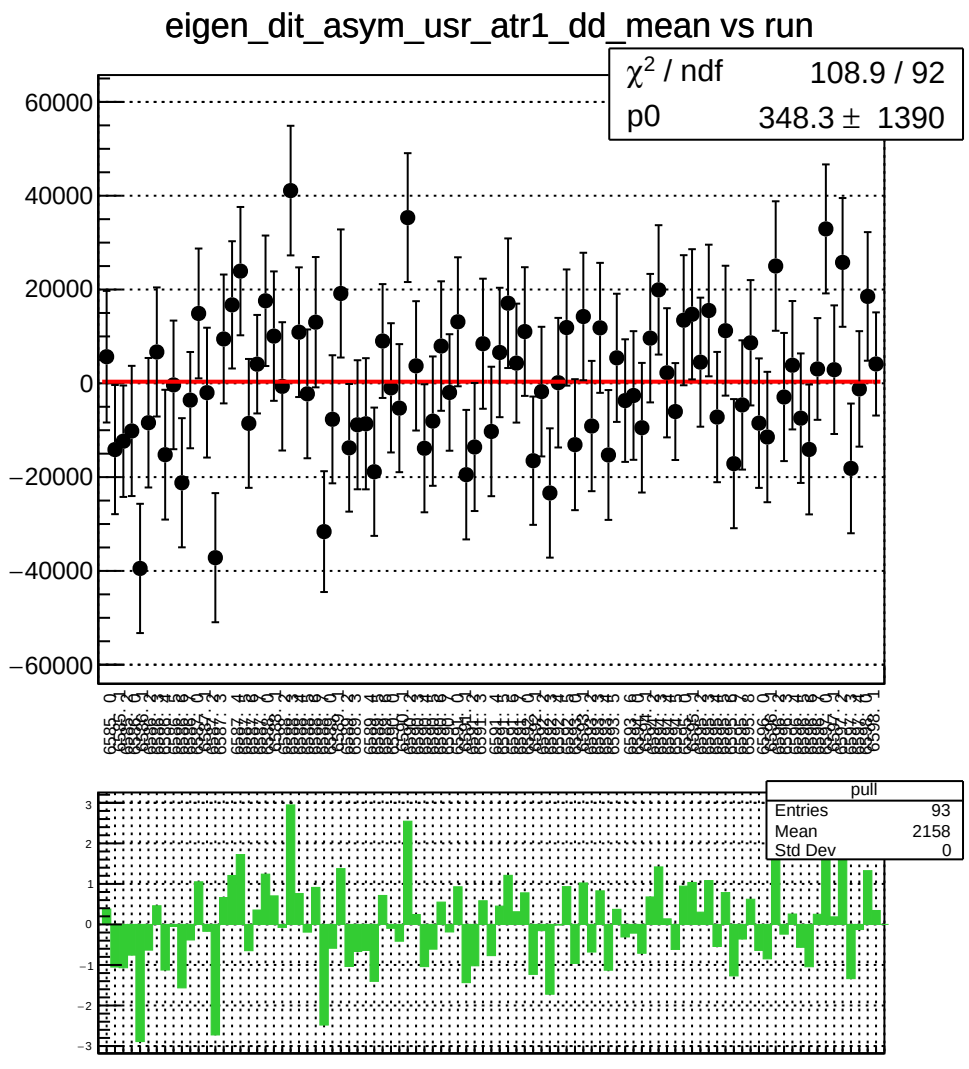

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 108.9 / 92
p0 348.3 ± 1390
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2158
Std Dev 0
3
2
1
0
−1
−2
−3

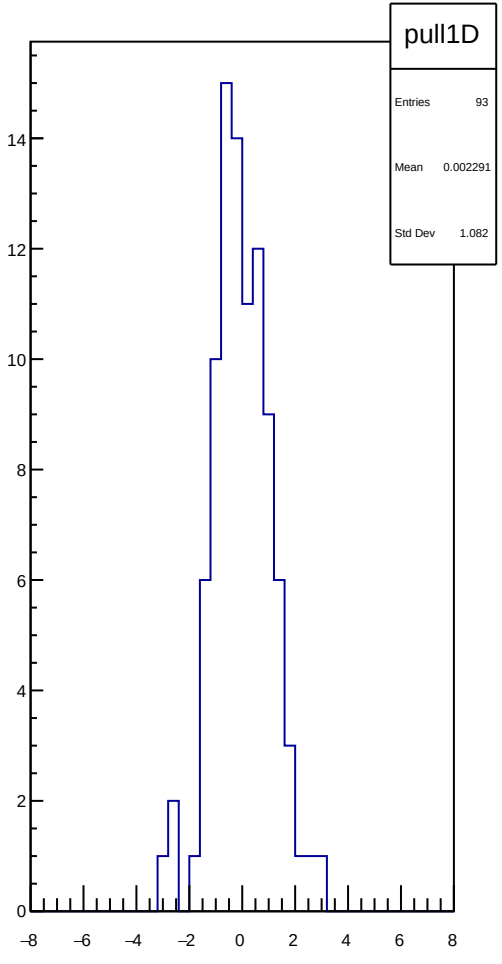

pull1D
Entries 93
Mean 0.002291
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

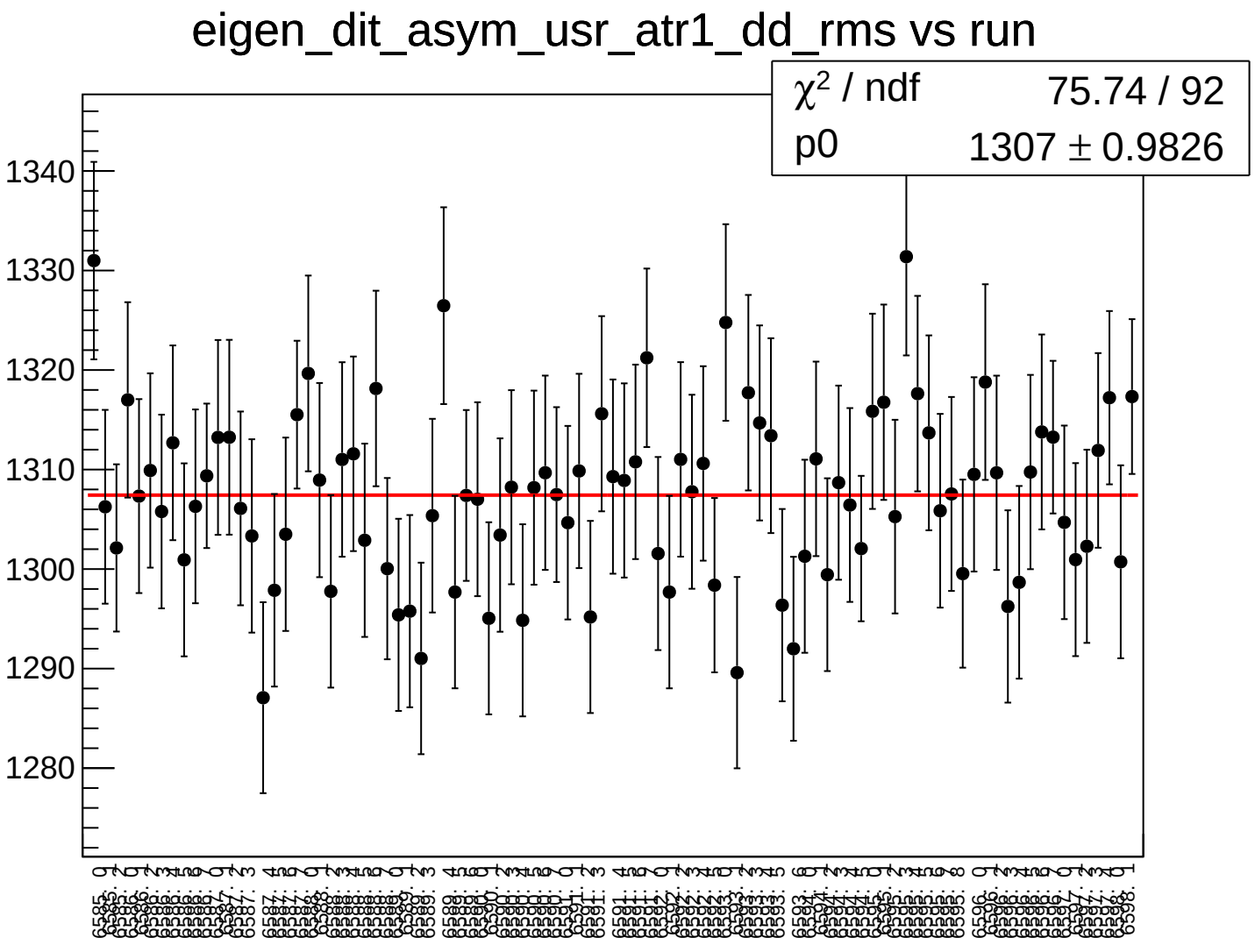

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 75.74 / 92
p0 1307 ± 0.9826
1340
1330
1320
1310
1300
1290
1280

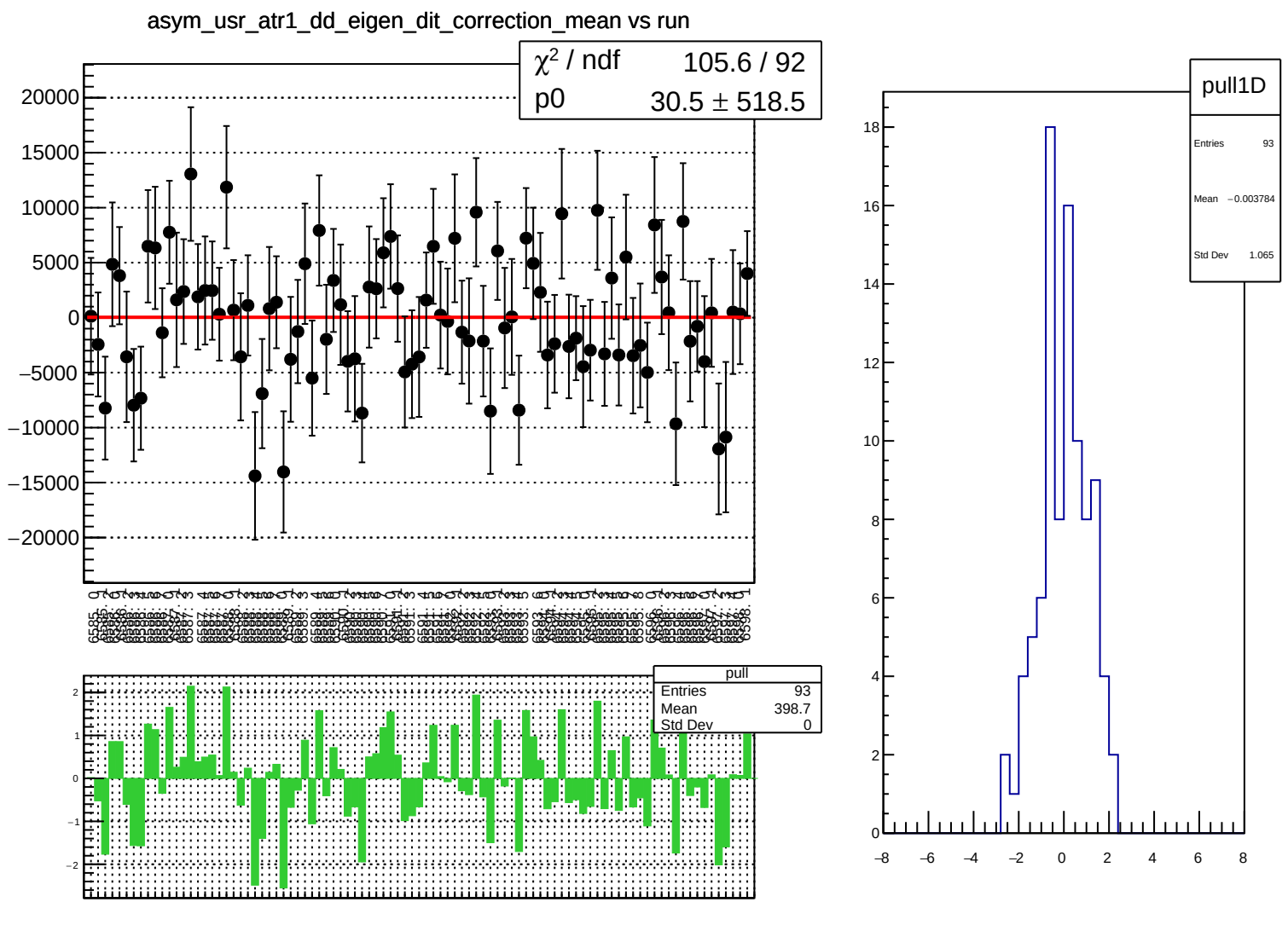

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 105.6 / 92
p0 30.5 ± 518.5
pull
Entries 93
Mean 398.7
Std Dev 0
pull1D
Entries 93
Mean −0.003784
Std Dev 1.065

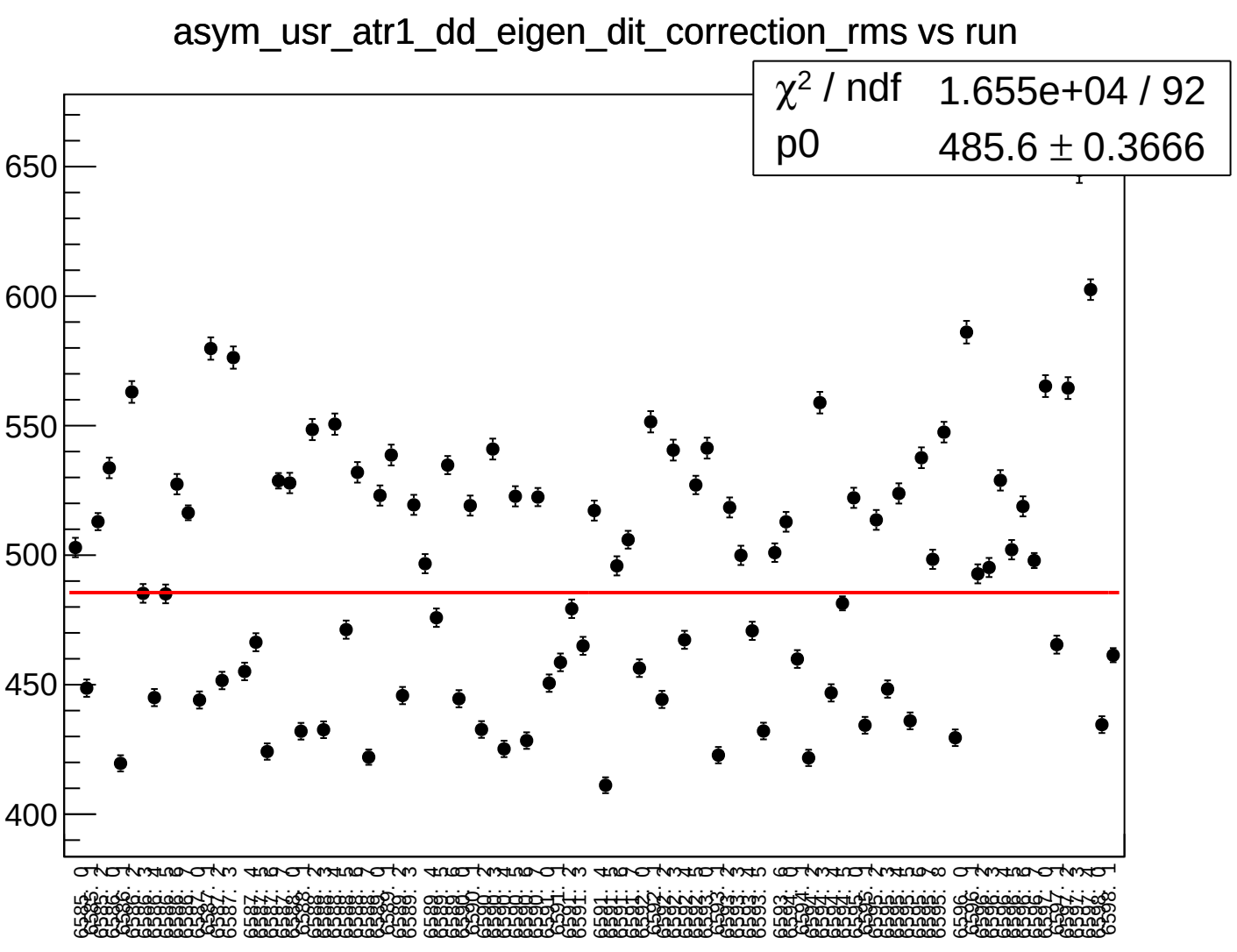

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.655e+04 / 92
p0 485.6 ± 0.3666
650
600
550
500
450
400

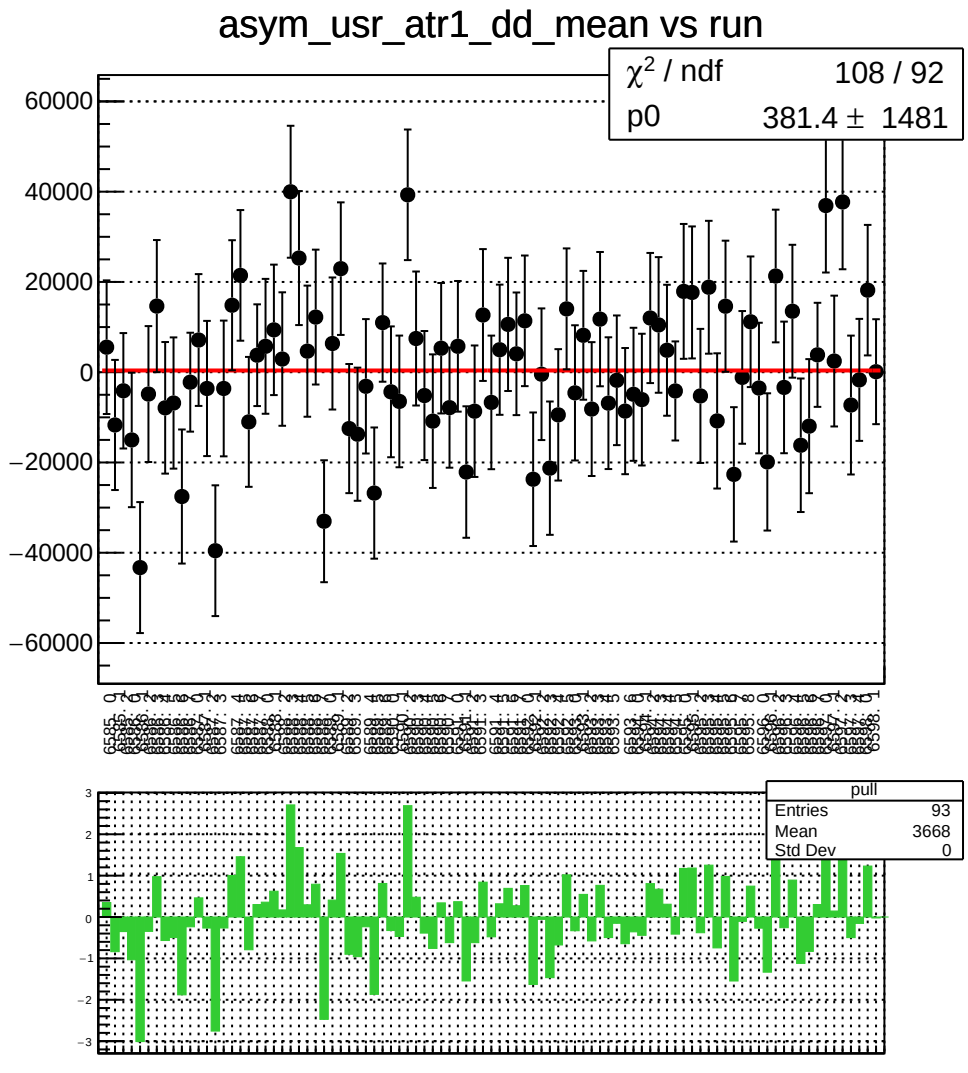

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 108.9 / 92
p0 348.3 ± 1390
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2158
Std Dev 0
3
2
1
0
−1
−2
−3

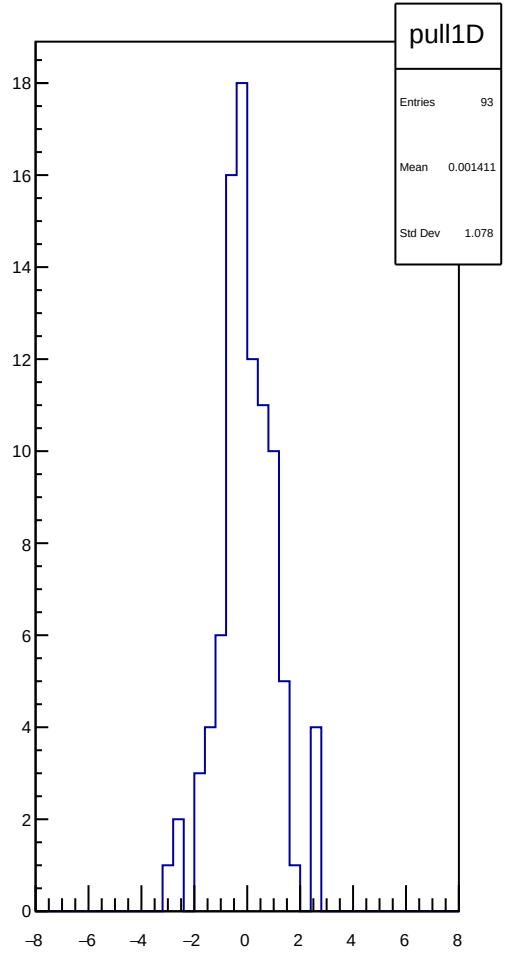

pull1D
Entries 93
Mean 0.002291
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

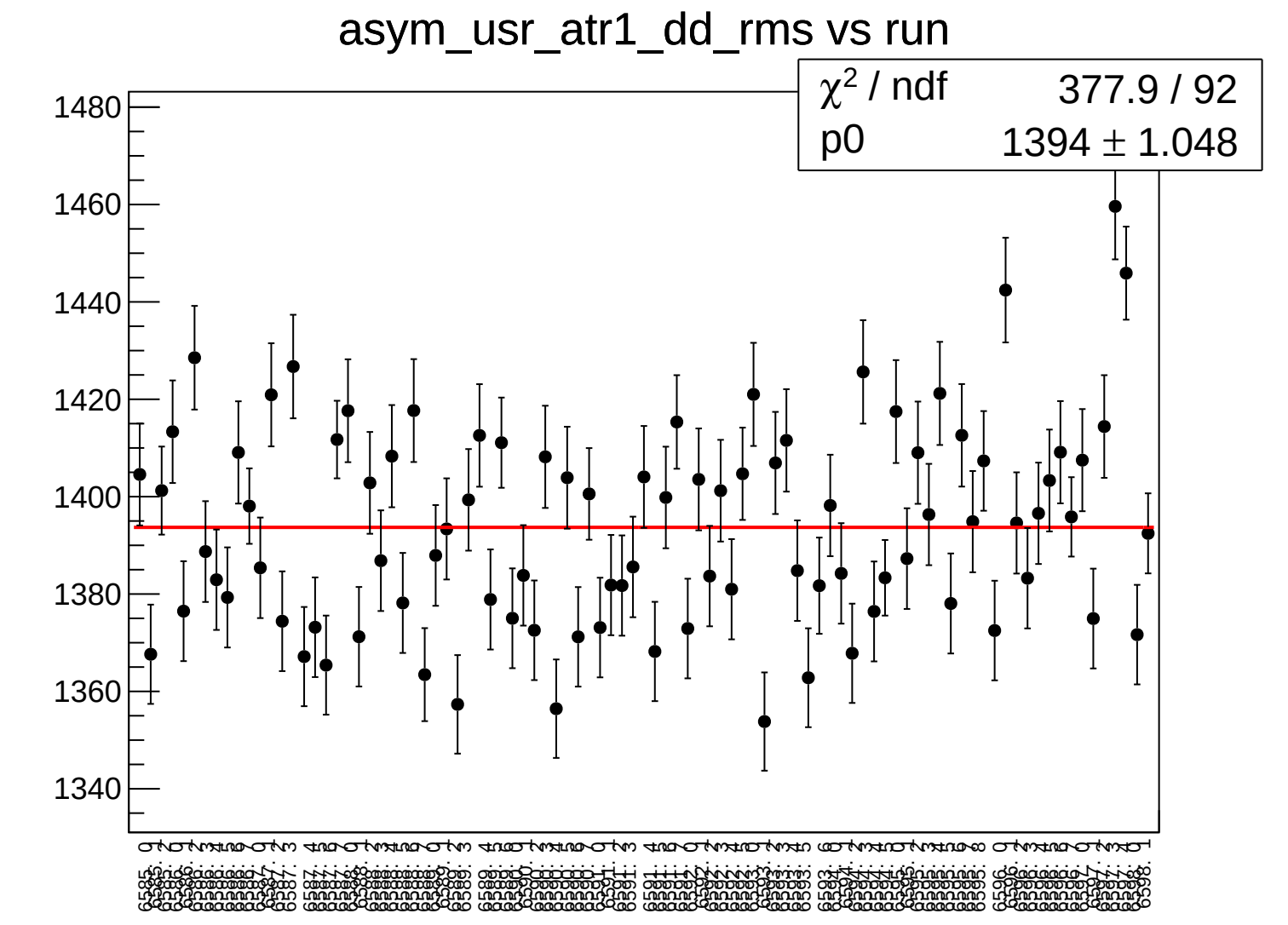

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 75.74 / 92
p0 1307 ± 0.9826
1340
1330
1320
1310
1300
1290
1280

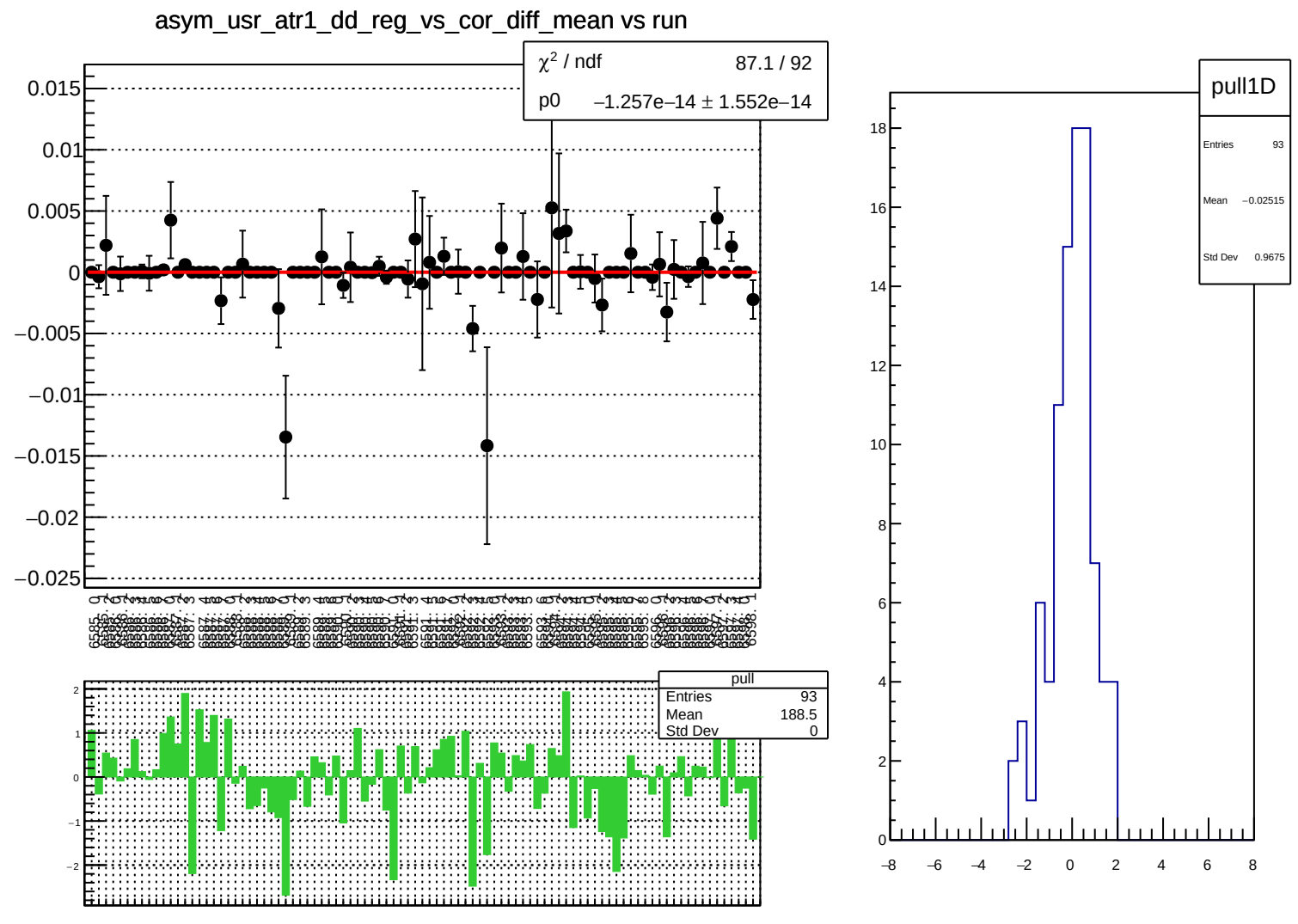

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 105.6 / 92
p0 30.5 ± 518.5
pull
Entries 93
Mean 398.7
Std Dev 0
pull1D
Entries 93
Mean −0.003784
Std Dev 1.065

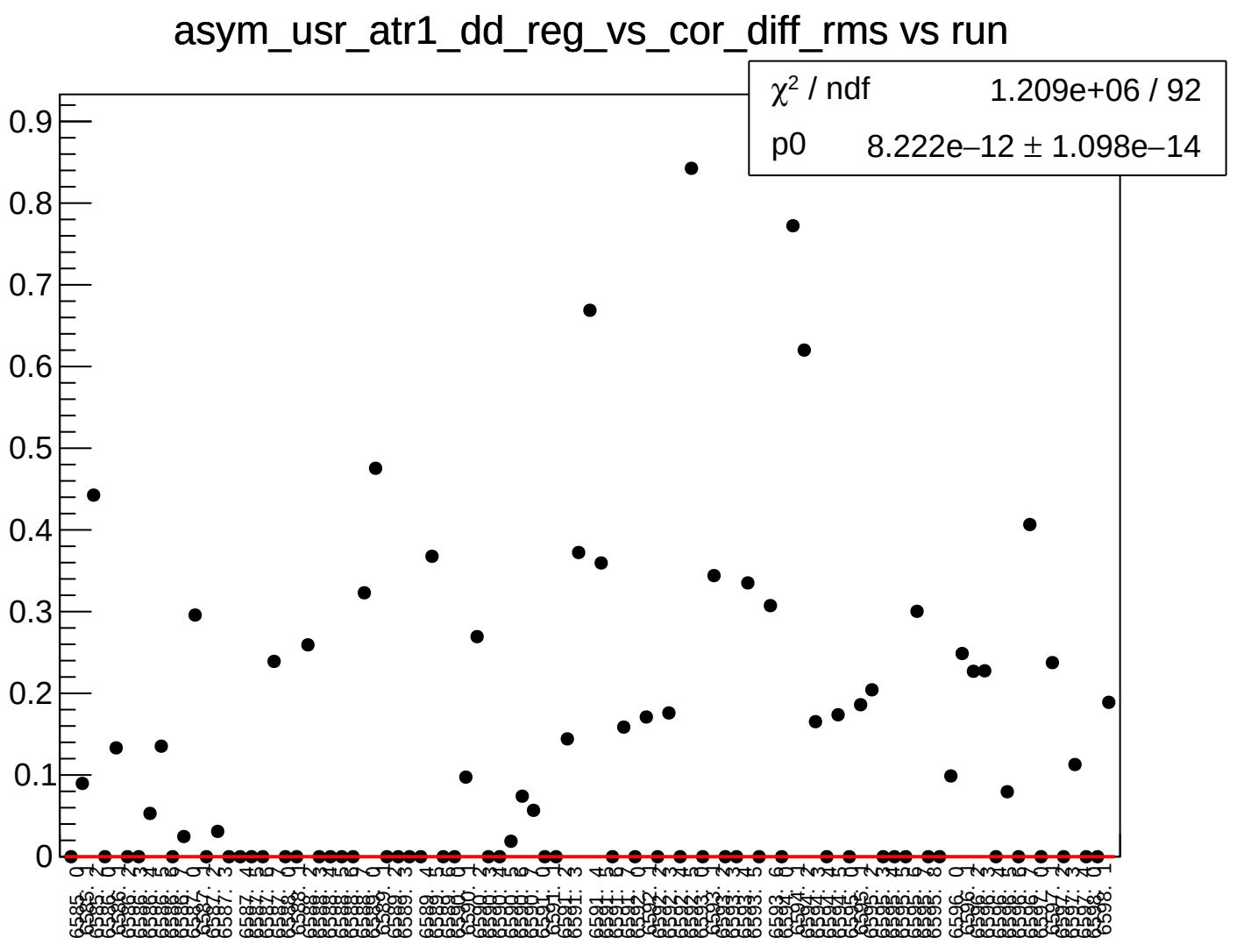

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.655e+04 / 92
p0 485.6 ± 0.3666
650
600
550
500
450
400

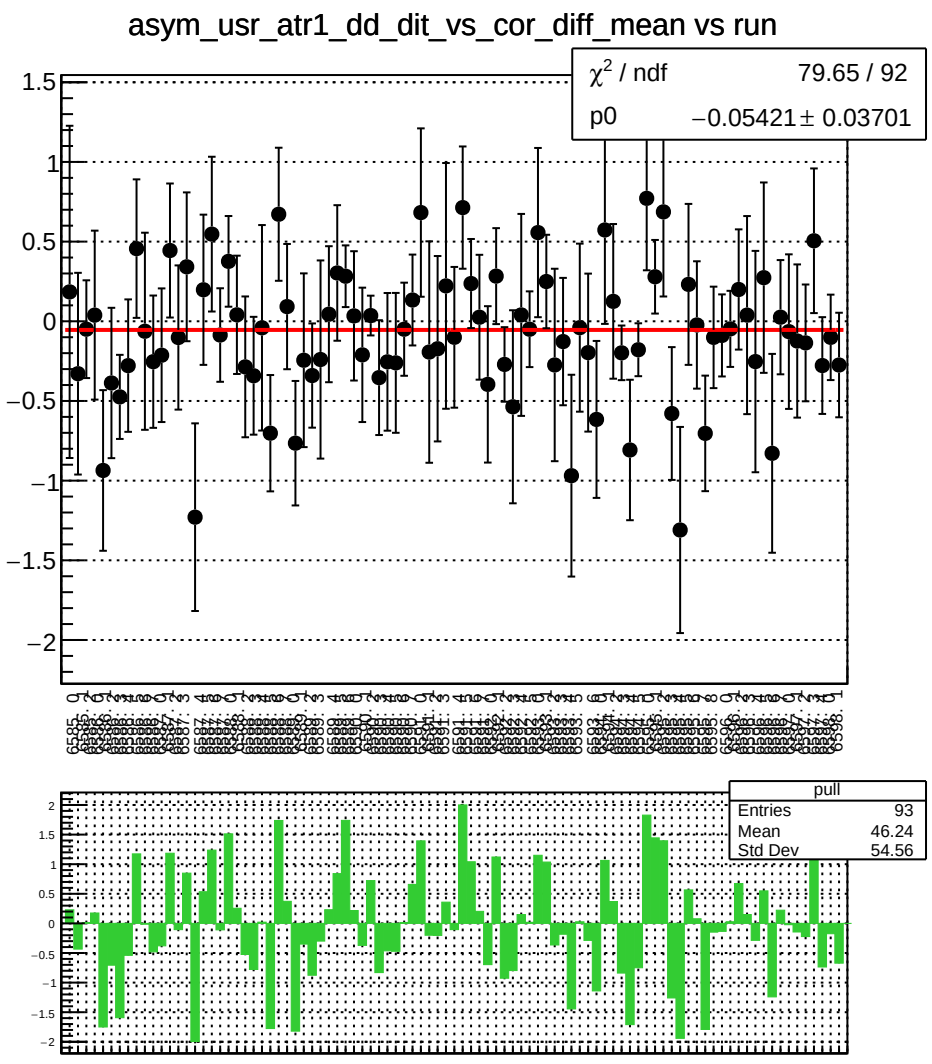

asym_usr_atr1_dd_mean vs run
χ² / ndf 108 / 92
p0 381.4 ± 1481
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 3668
Std Dev 0
3
2
1
0
−1
−2
−3

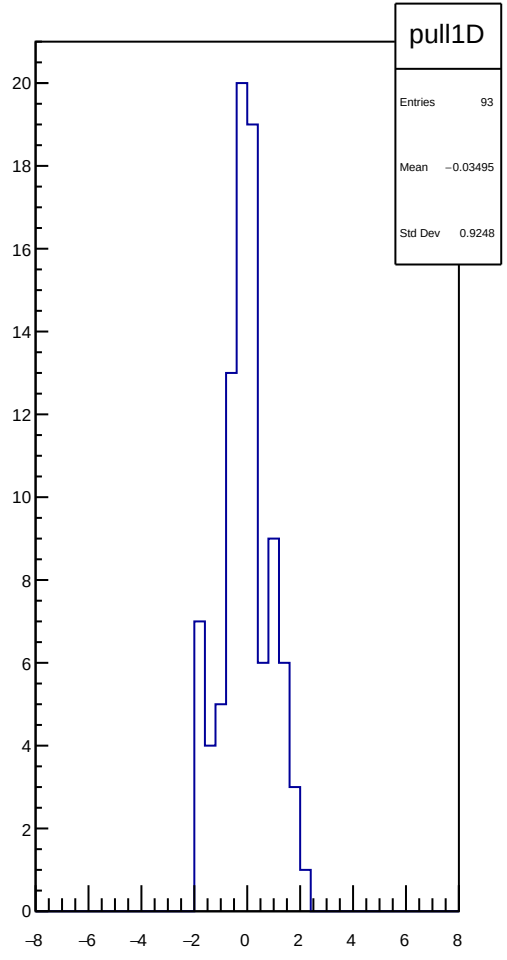

pull1D
Entries 93
Mean 0.001411
Std Dev 1.078
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

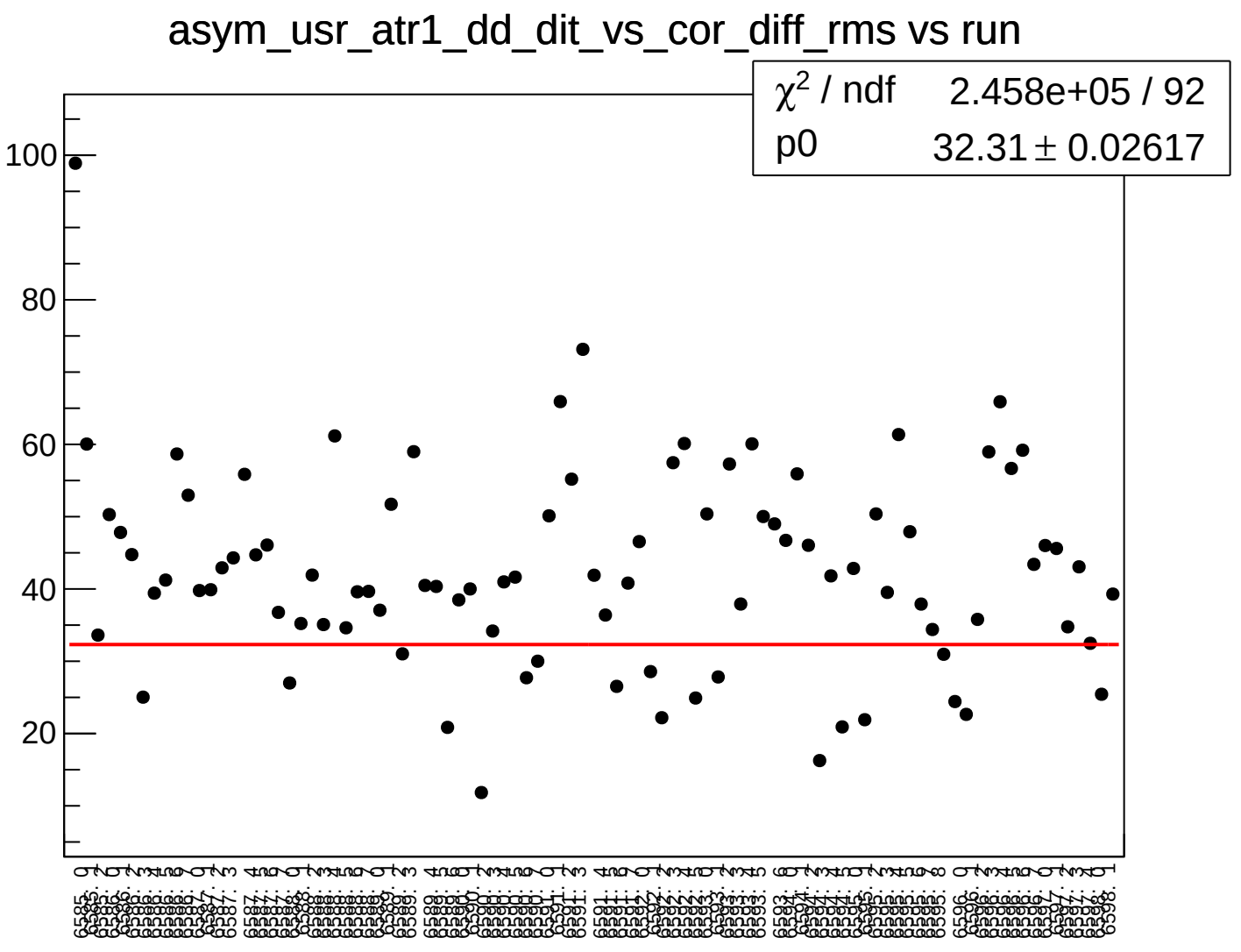

asym_usr_atr1_dd_rms vs run
χ² / ndf 377.9 / 92
p0 1394 ± 1.048
1480
1460
1440
1420
1400
1380
1360
1340

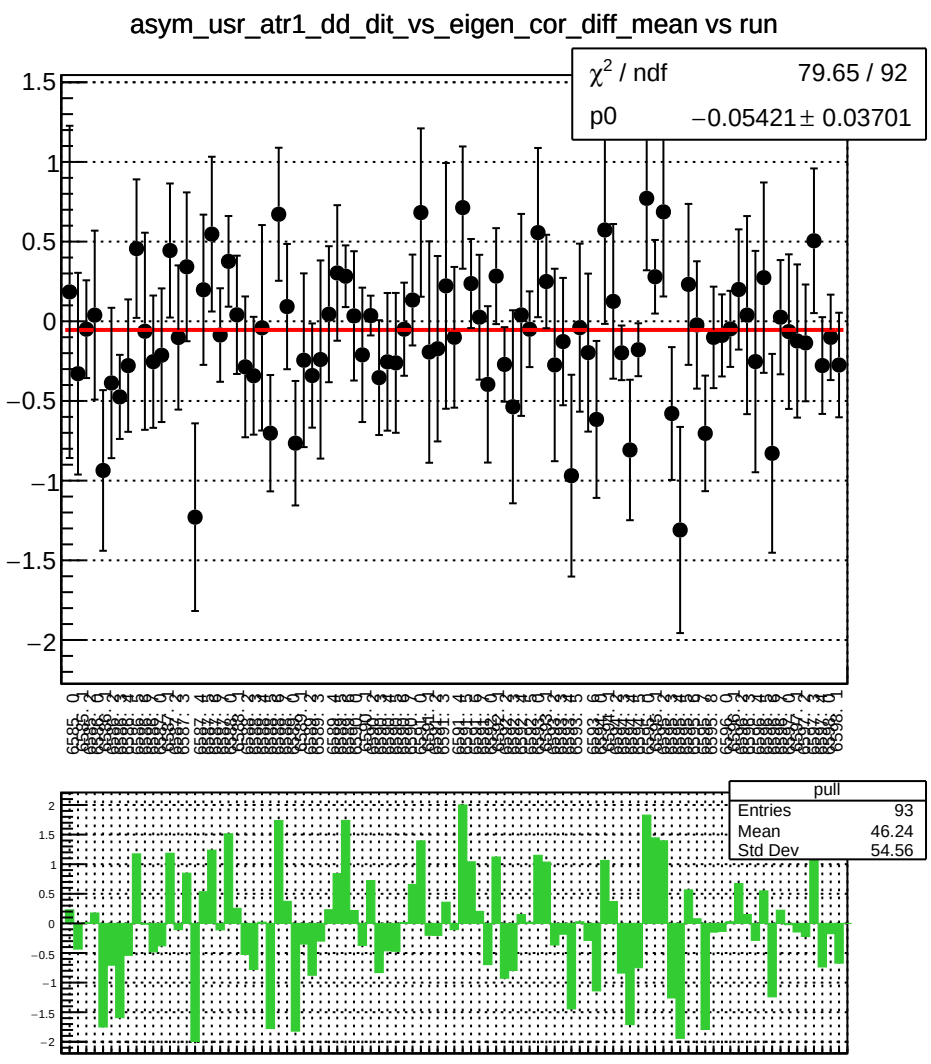

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.1 / 92
p0 −1.257e−14 ± 1.552e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 93
Mean 188.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02515
Std Dev 0.9675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

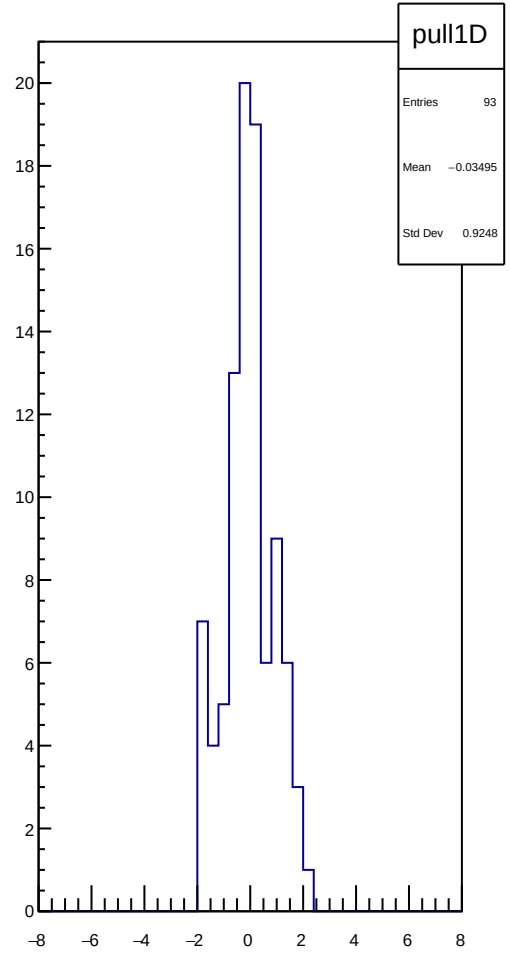

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.209e+06 / 92
p0 8.222e−12 ± 1.098e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

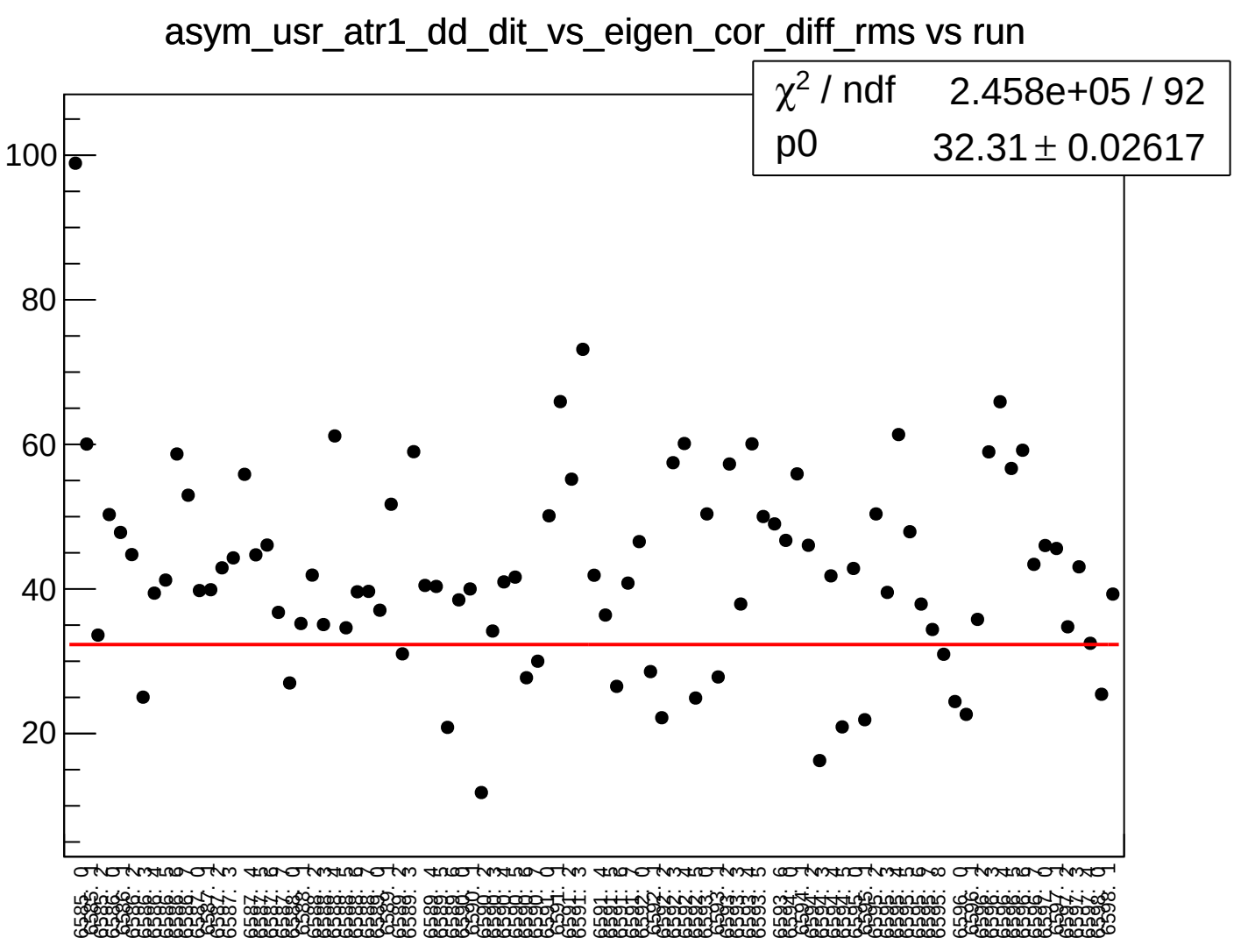

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.65 / 92
p0 −0.05421 ± 0.03701
pull
Entries 93
Mean 46.24
Std Dev 54.56

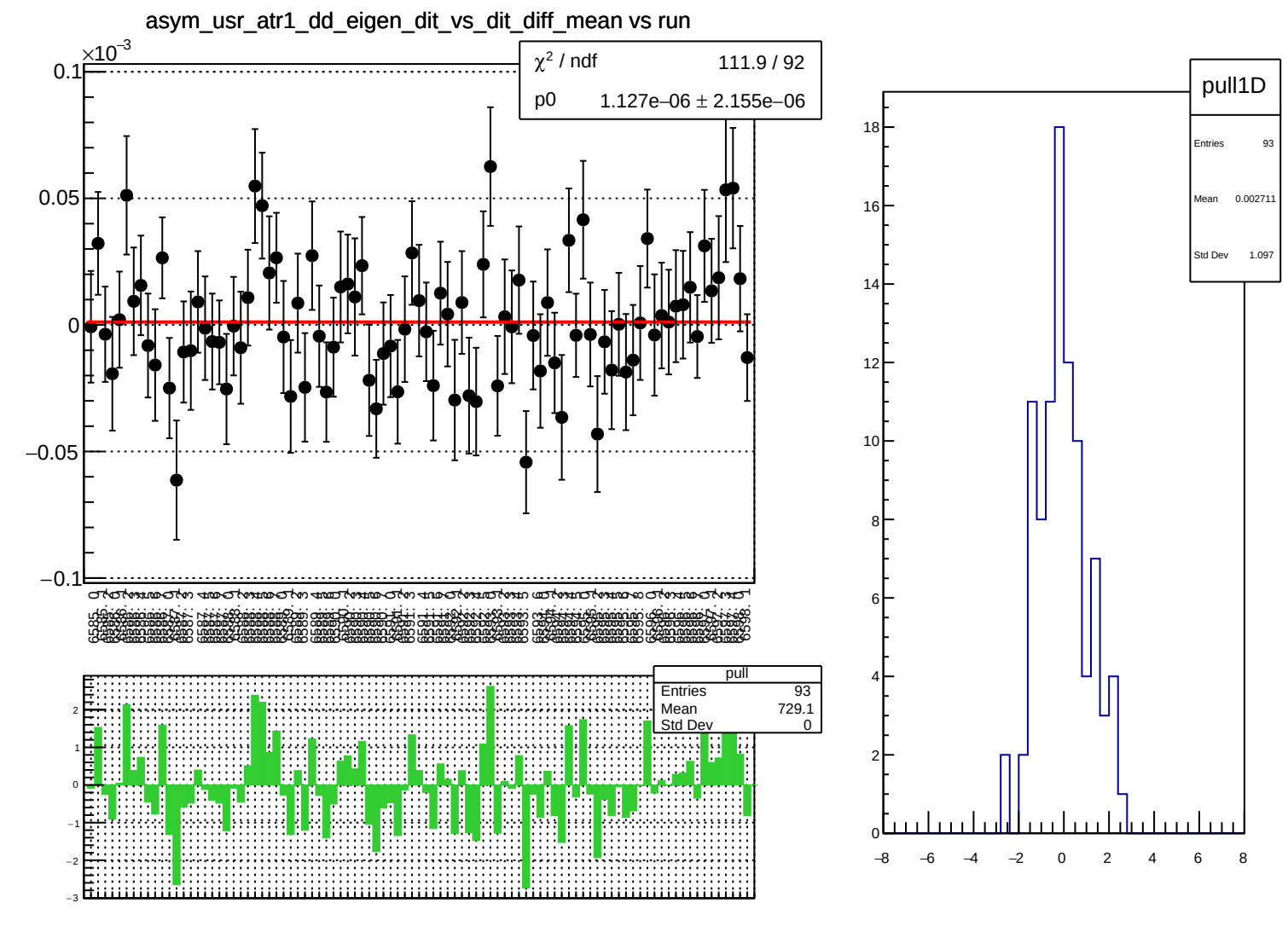

pull1D
Entries 93
Mean −0.03495
Std Dev 0.9248

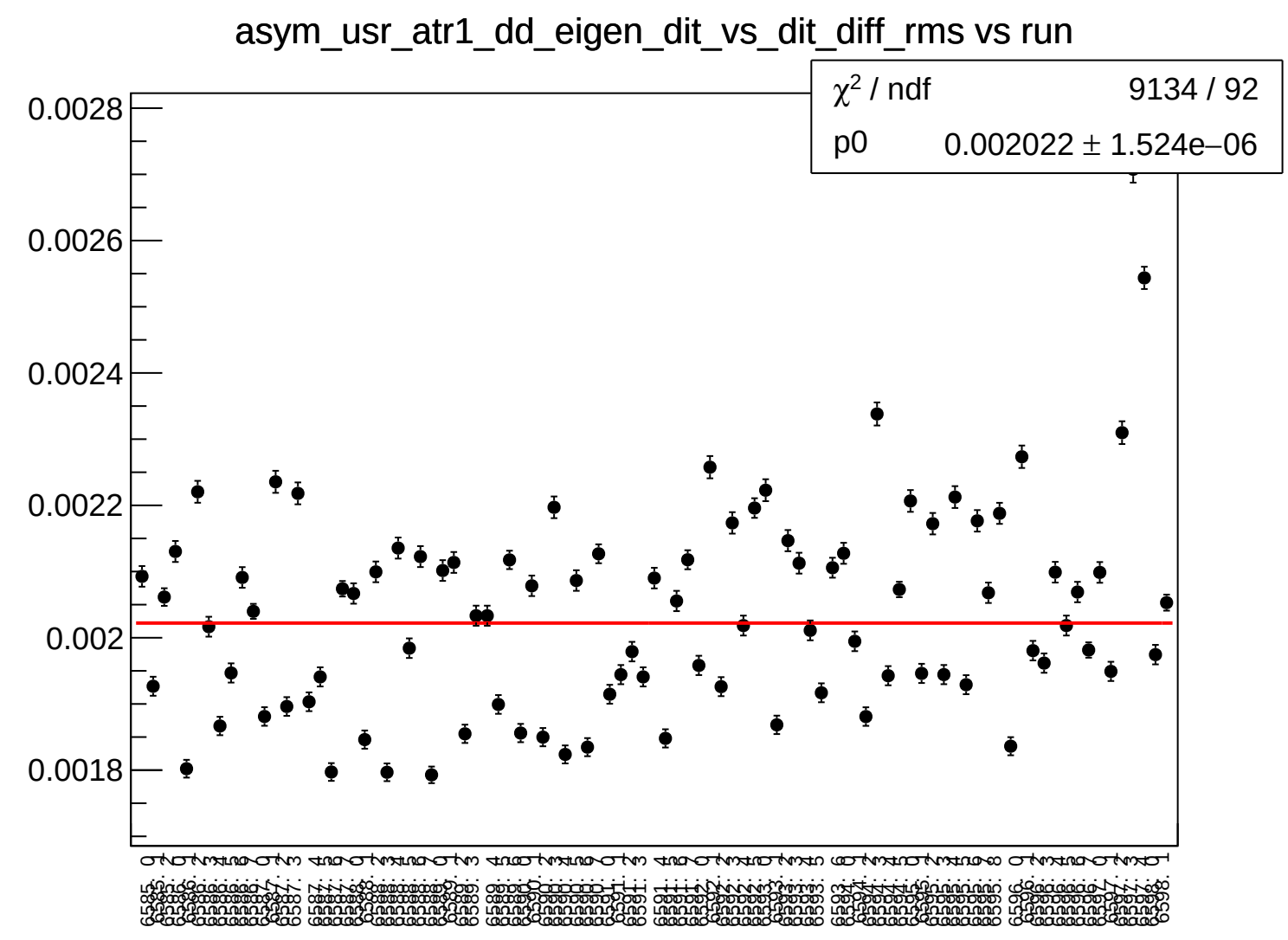

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.458e+05 / 92
p0 32.31 ± 0.02617
100
80
60
40
20

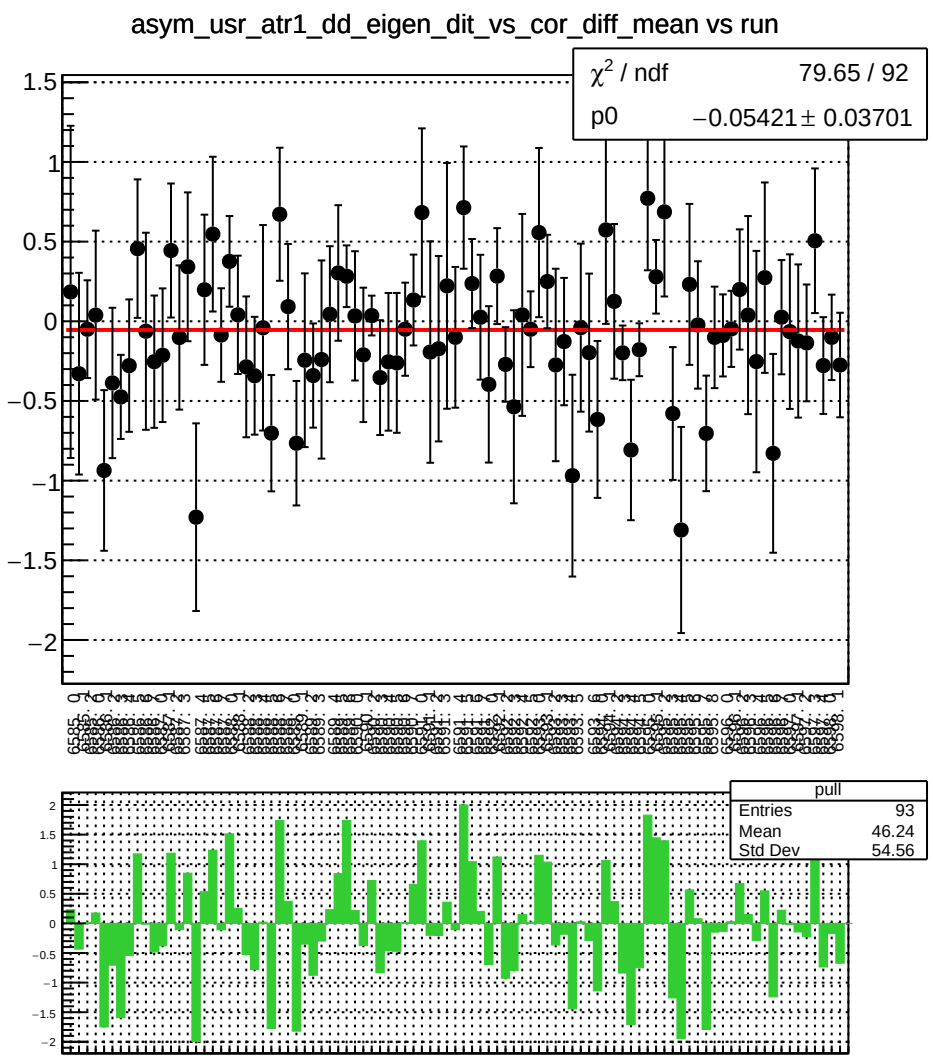

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.65 / 92
p0 −0.05421 ± 0.03701
pull
Entries 93
Mean 46.24
Std Dev 54.56

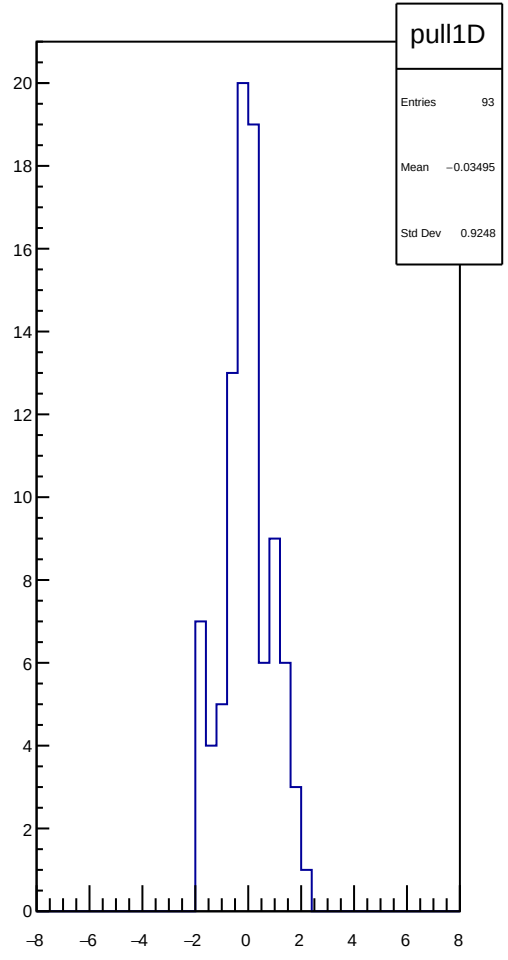

pull1D
Entries 93
Mean −0.03495
Std Dev 0.9248

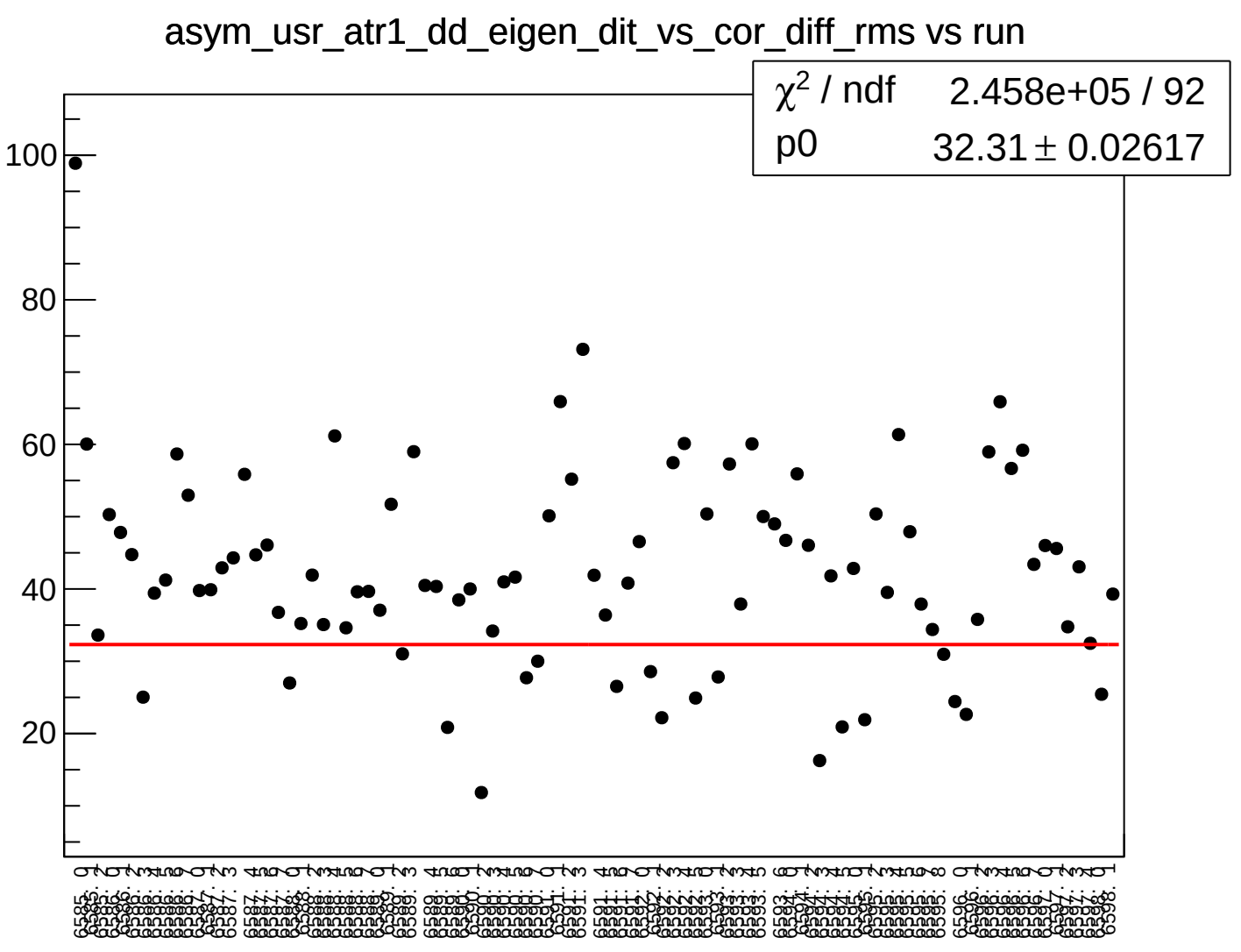

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.458e+05 / 92
p0 32.31 ± 0.02617
100
80
60
40
20

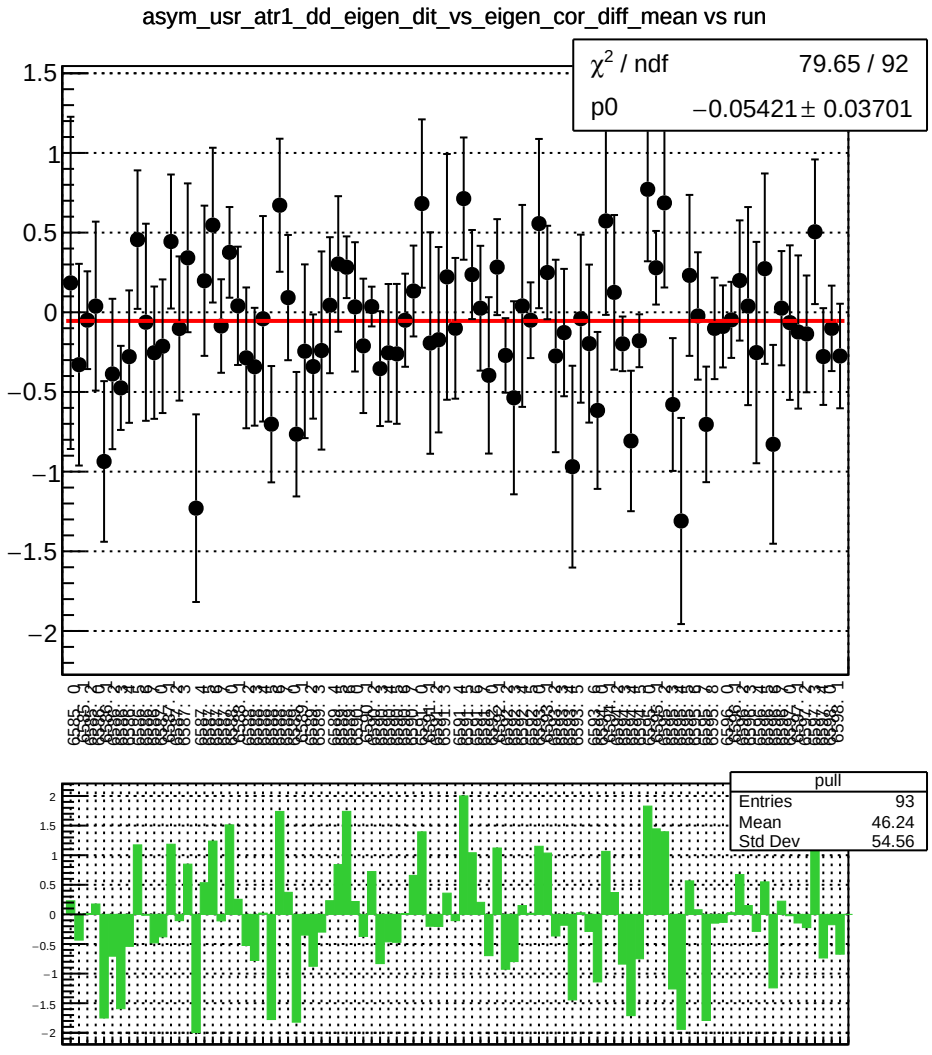

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.9 / 92
p0 1.127e−06 ± 2.155e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 729.1
Std Dev 0
pull1D
Entries 93
Mean 0.002711
Std Dev 1.097

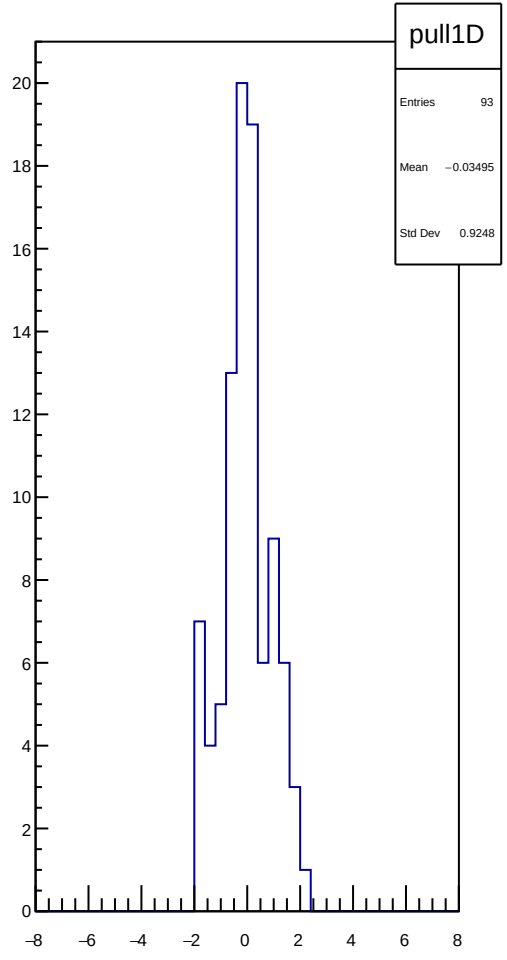

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9134 / 92
p0 0.002022 ± 1.524e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

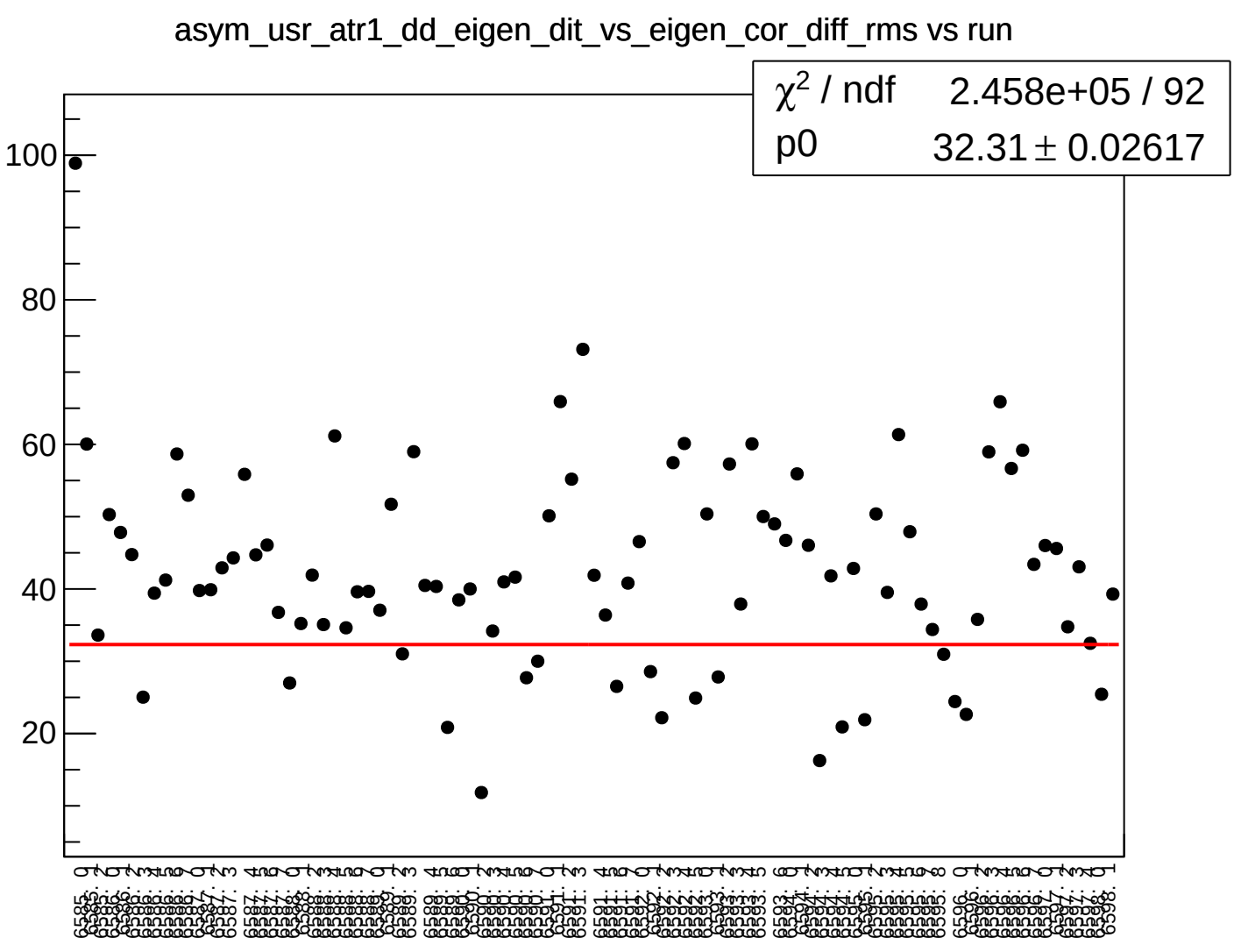

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.65 / 92
p0 −0.05421 ± 0.03701
pull
Entries 93
Mean 46.24
Std Dev 54.56

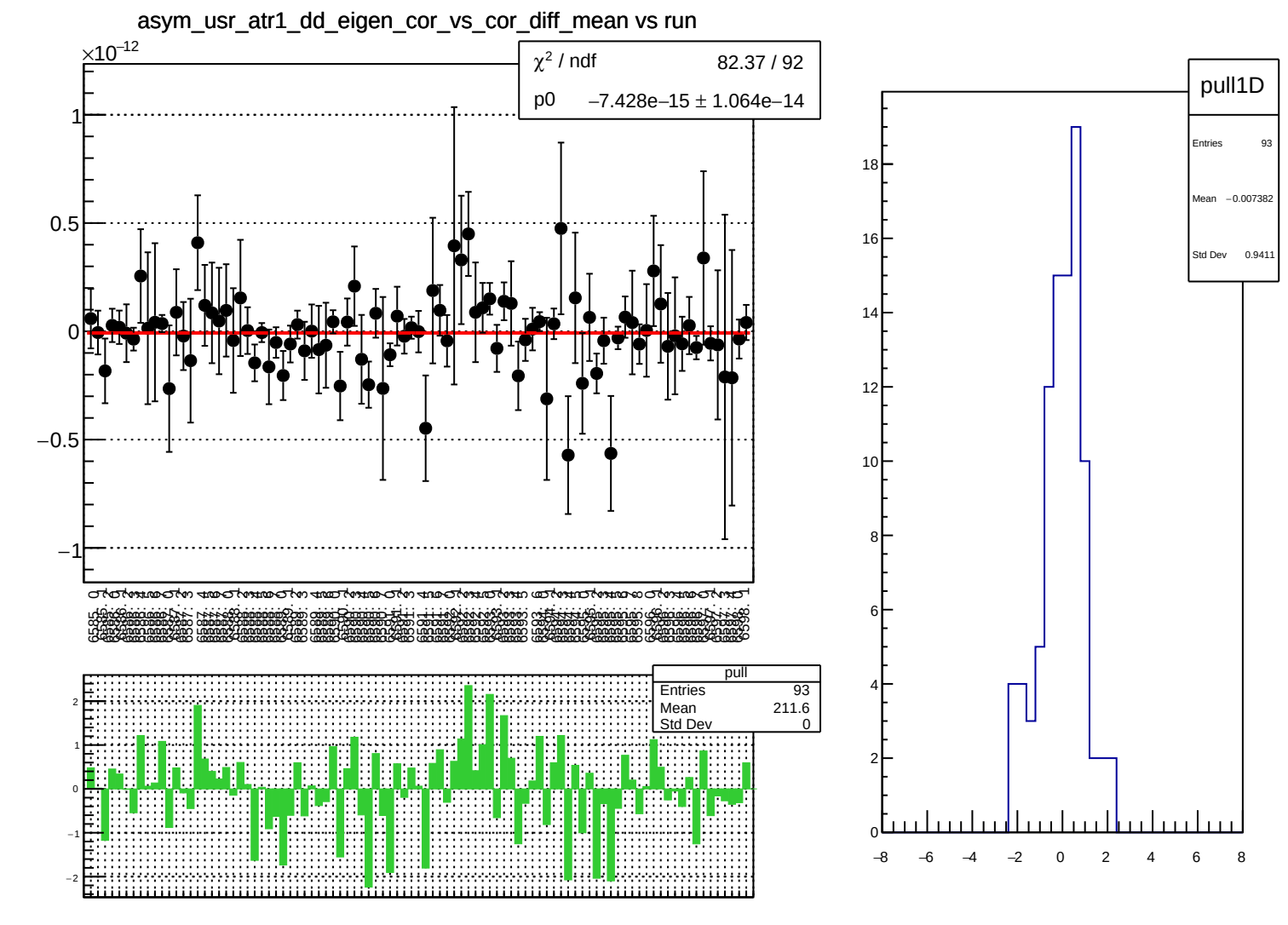

pull1D
Entries 93
Mean −0.03495
Std Dev 0.9248

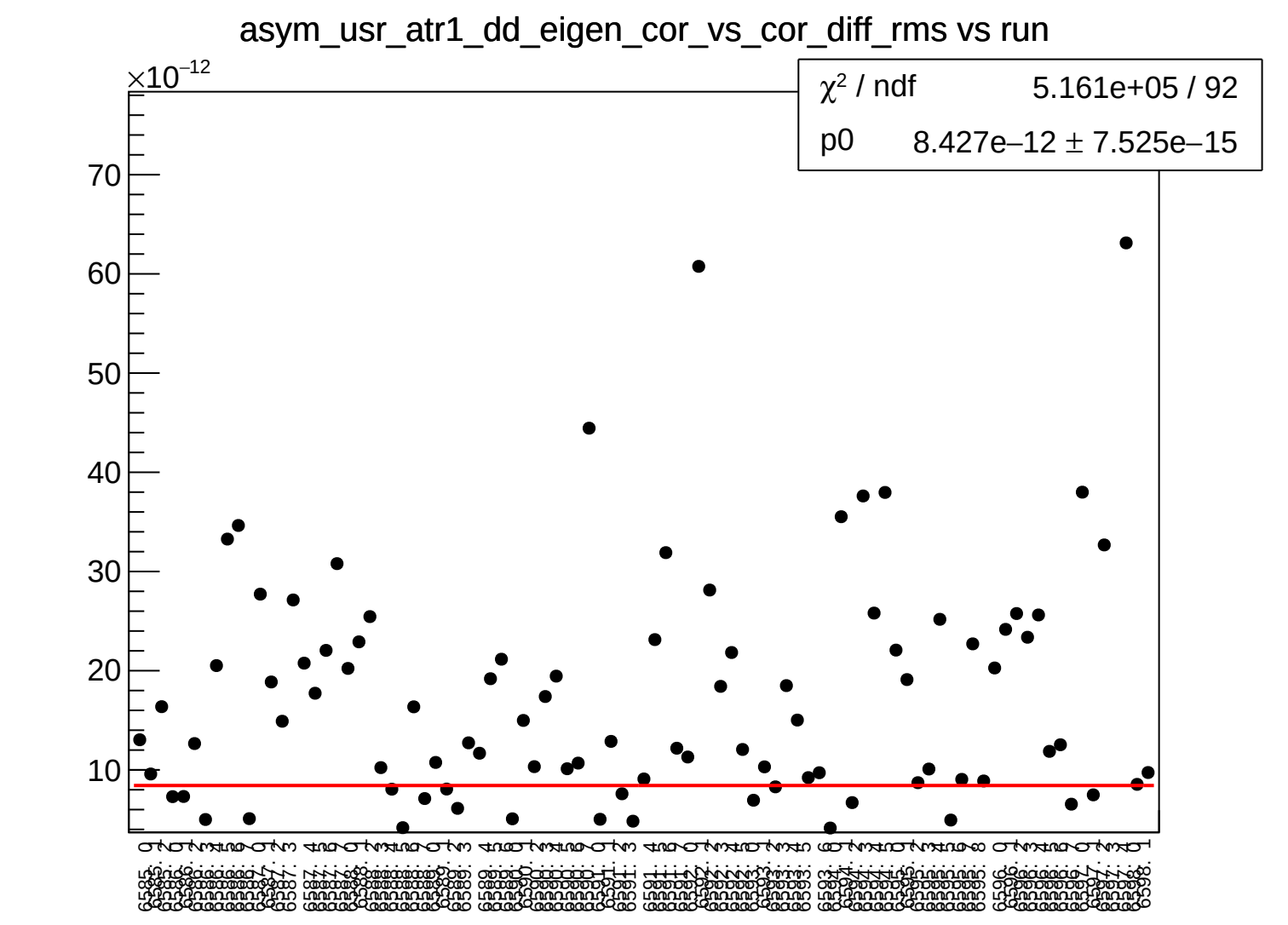

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.458e+05 / 92
p0 32.31 ± 0.02617
100
80
60
40
20

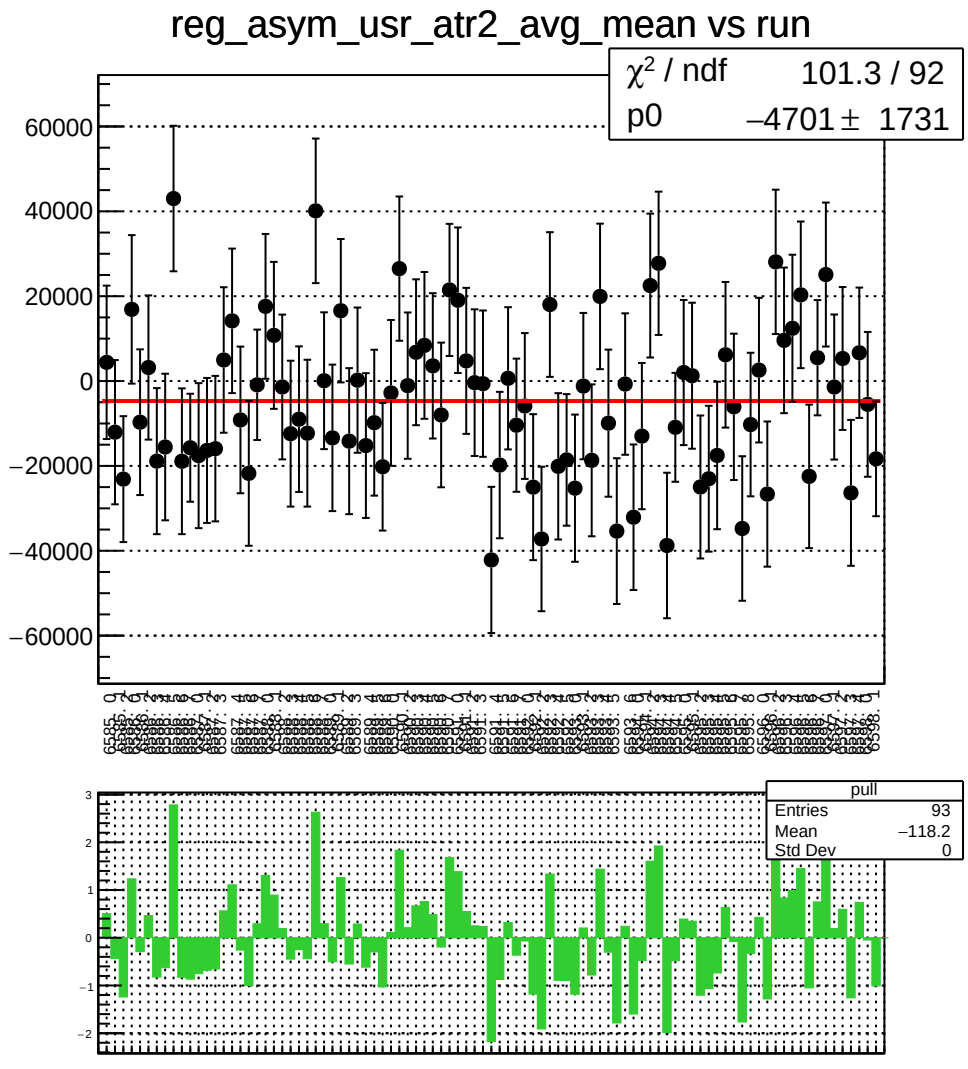

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.65 / 92
p0 −0.05421 ± 0.03701
pull
Entries 93
Mean 46.24
Std Dev 54.56

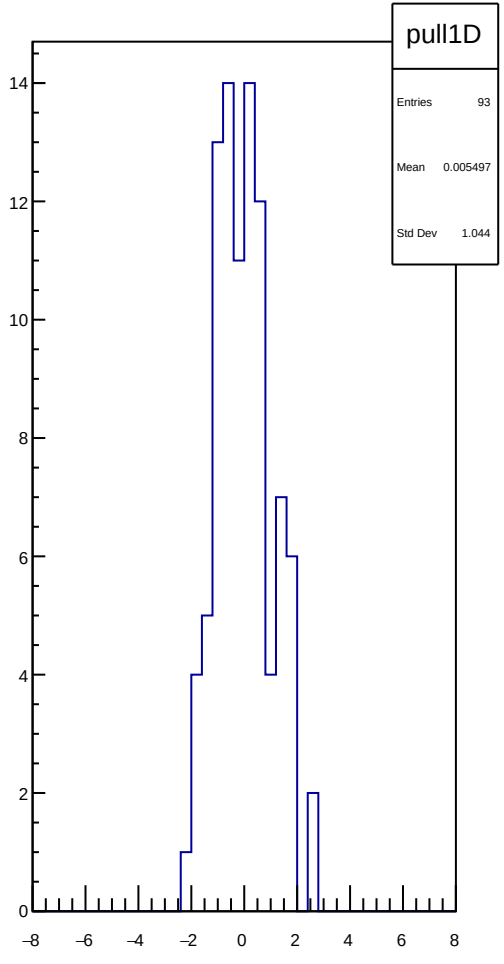

pull1D
Entries 93
Mean −0.03495
Std Dev 0.9248

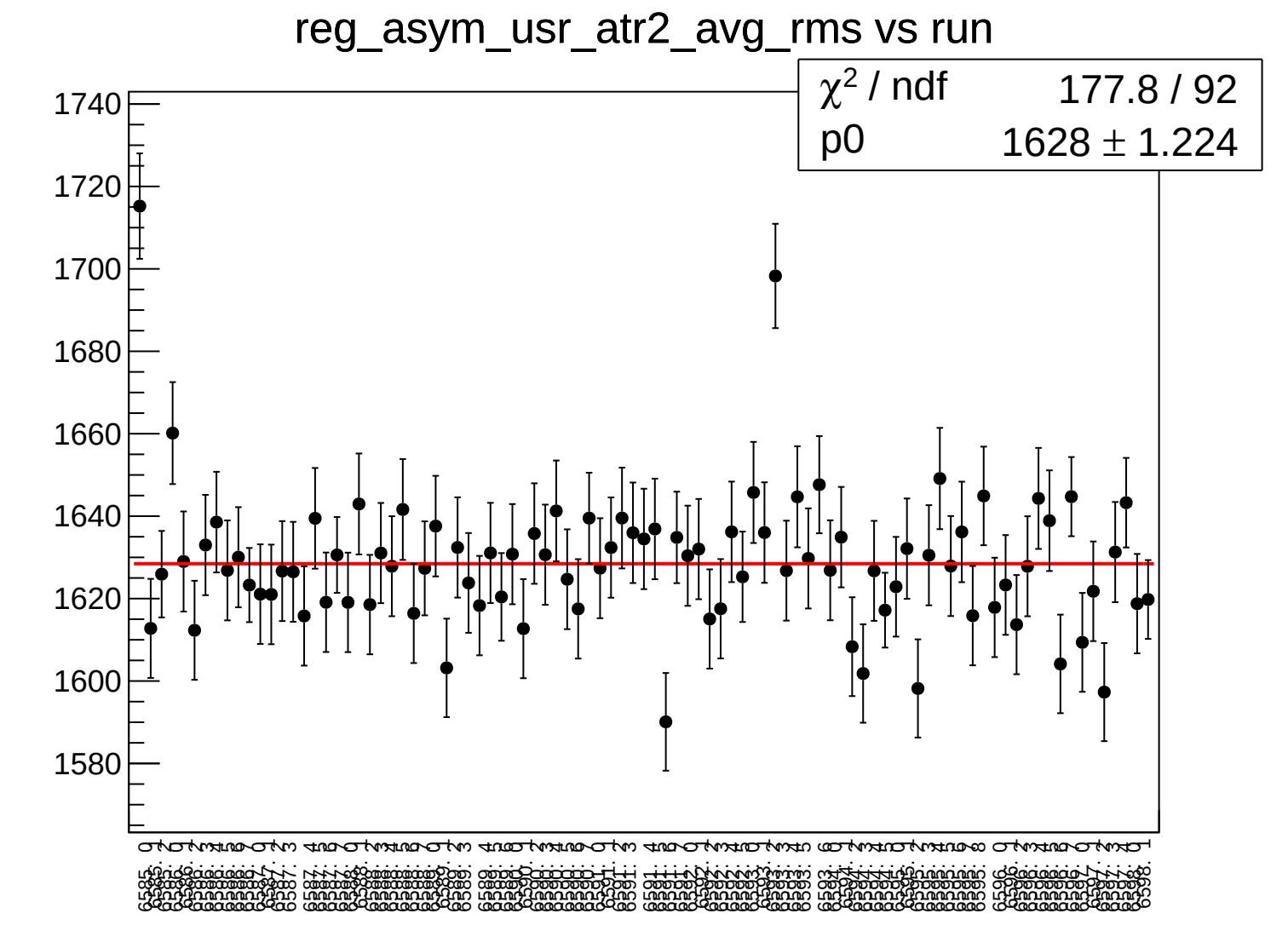

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.458e+05 / 92
p0 32.31 ± 0.02617
100
80
60
40
20

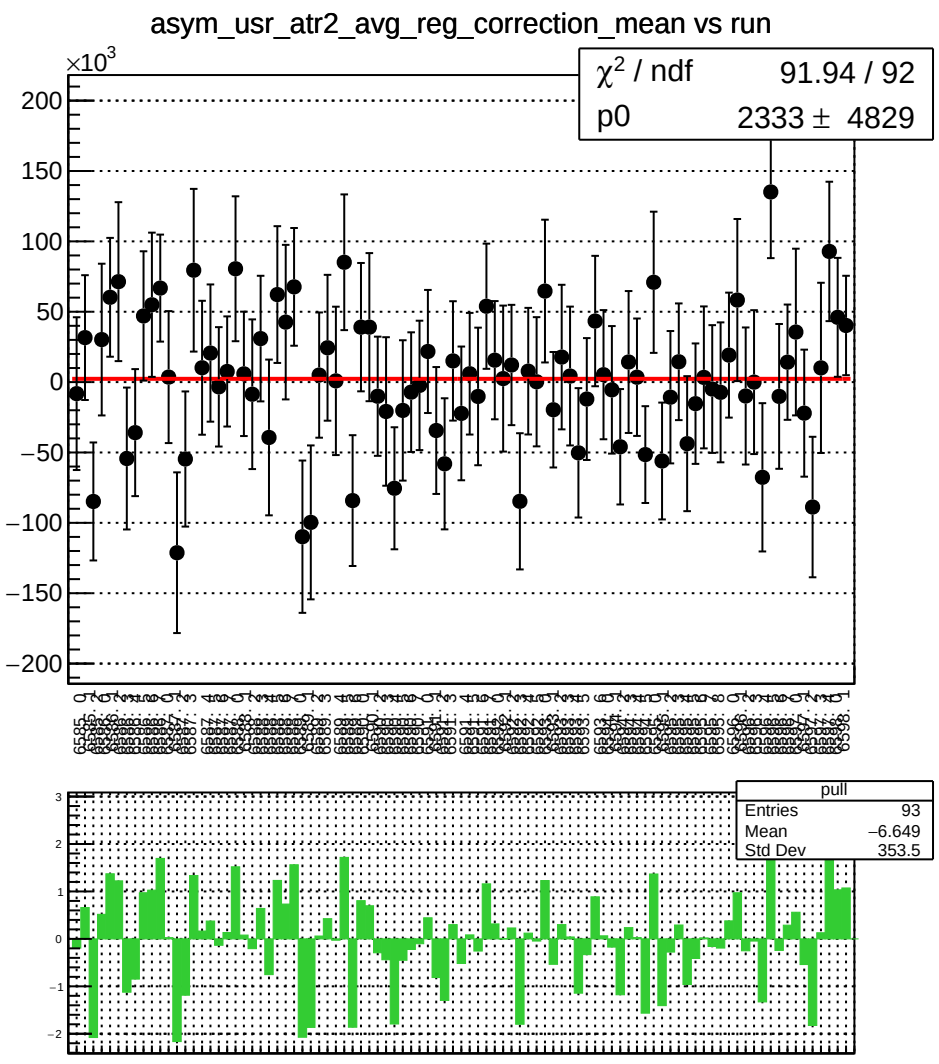

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.37 / 92
p0 −7.428e−15 ± 1.064e−14
pull
Entries 93
Mean 211.6
Std Dev 0
pull1D
Entries 93
Mean −0.007382
Std Dev 0.9411

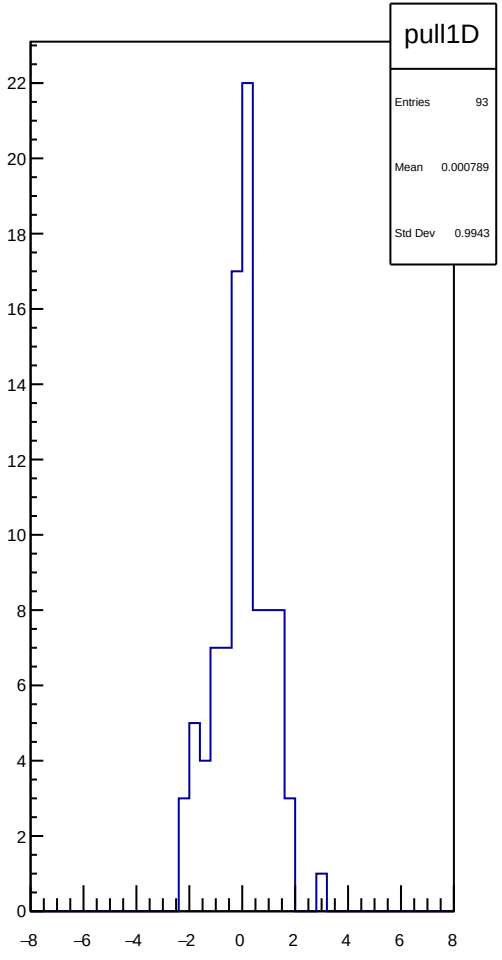

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.161e+05 / 92
p0 8.427e−12 ± 7.525e−15
70
60
50
40
30
20
10

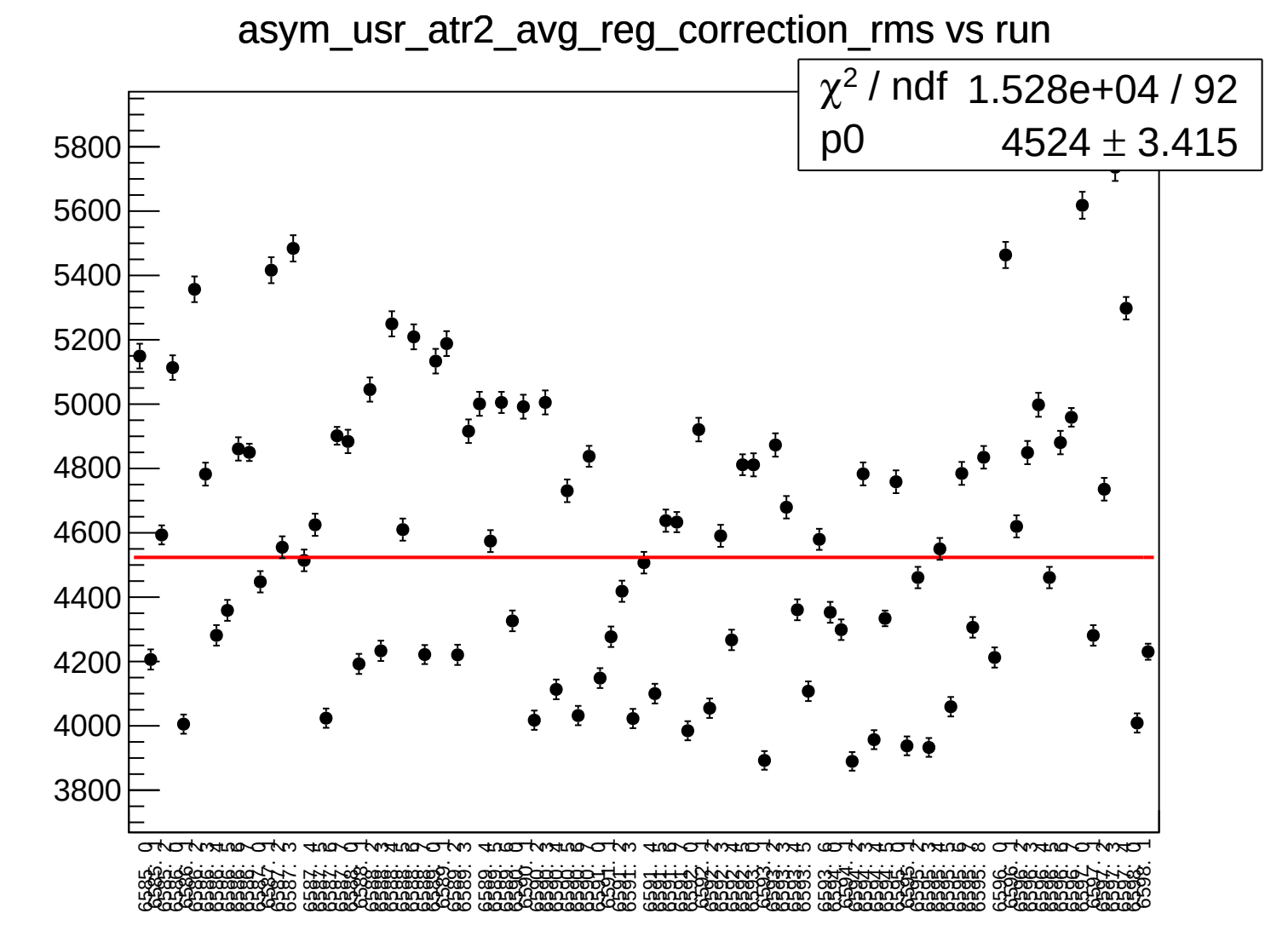

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 101.3 / 92
p0 −4701 ± 1731
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −118.2
Std Dev 0
3
2
1
0
−1
−2

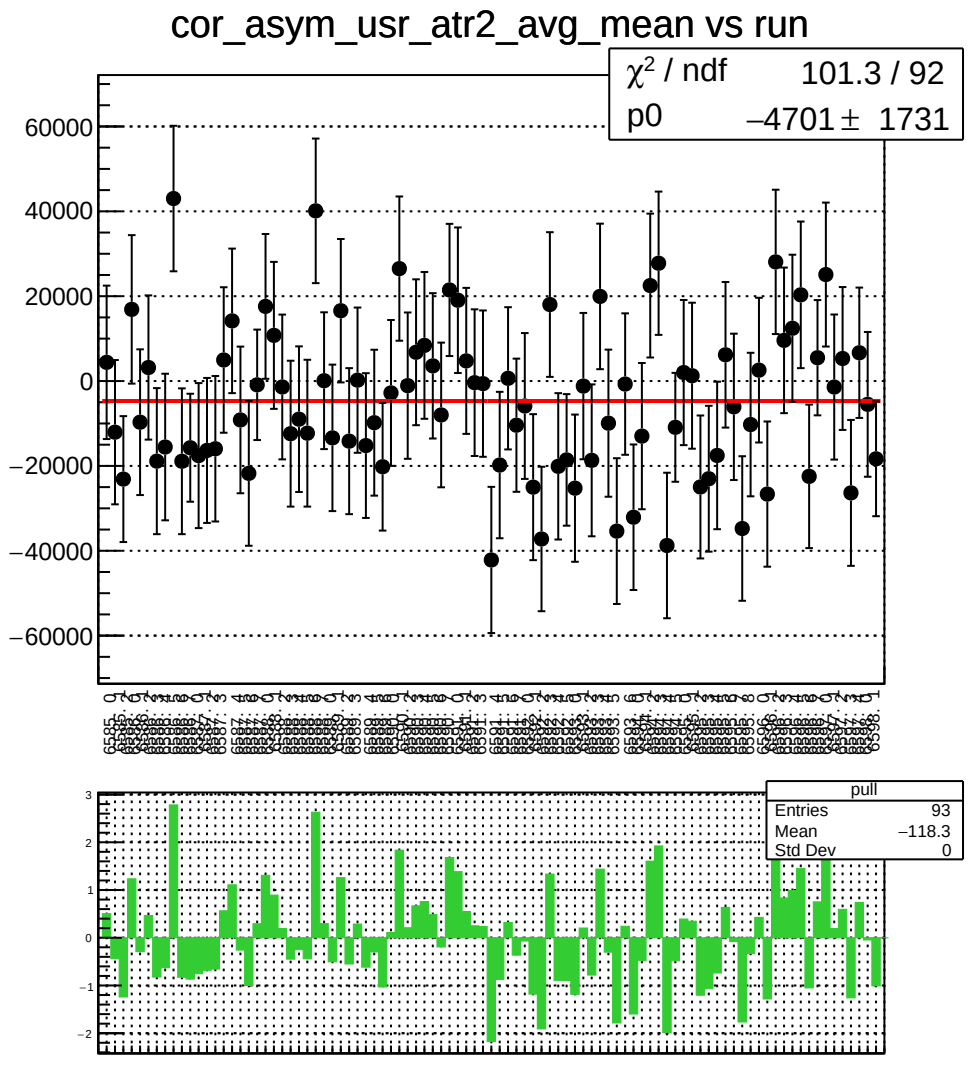

pull1D
Entries 93
Mean 0.005497
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

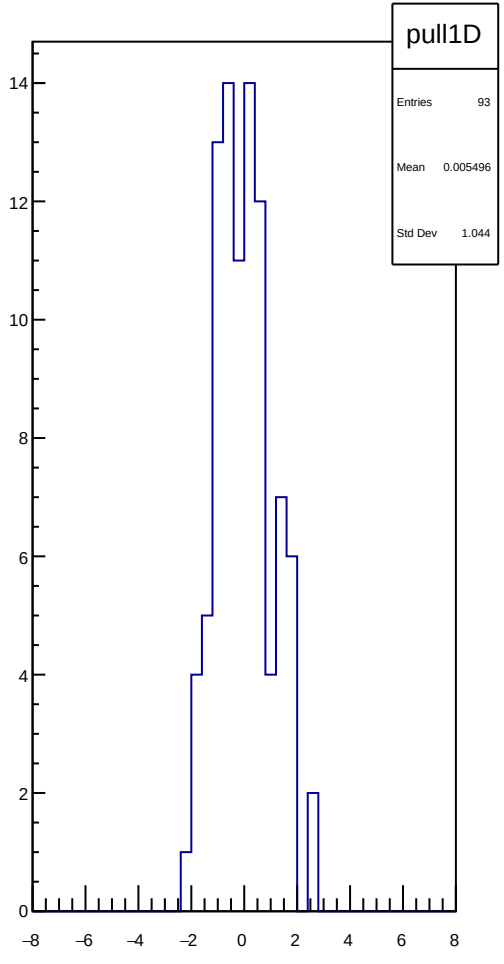

reg_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 177.8 / 92
p0 1628 ± 1.224
1740
1720
1700
1680
1660
1640
1620
1600
1580

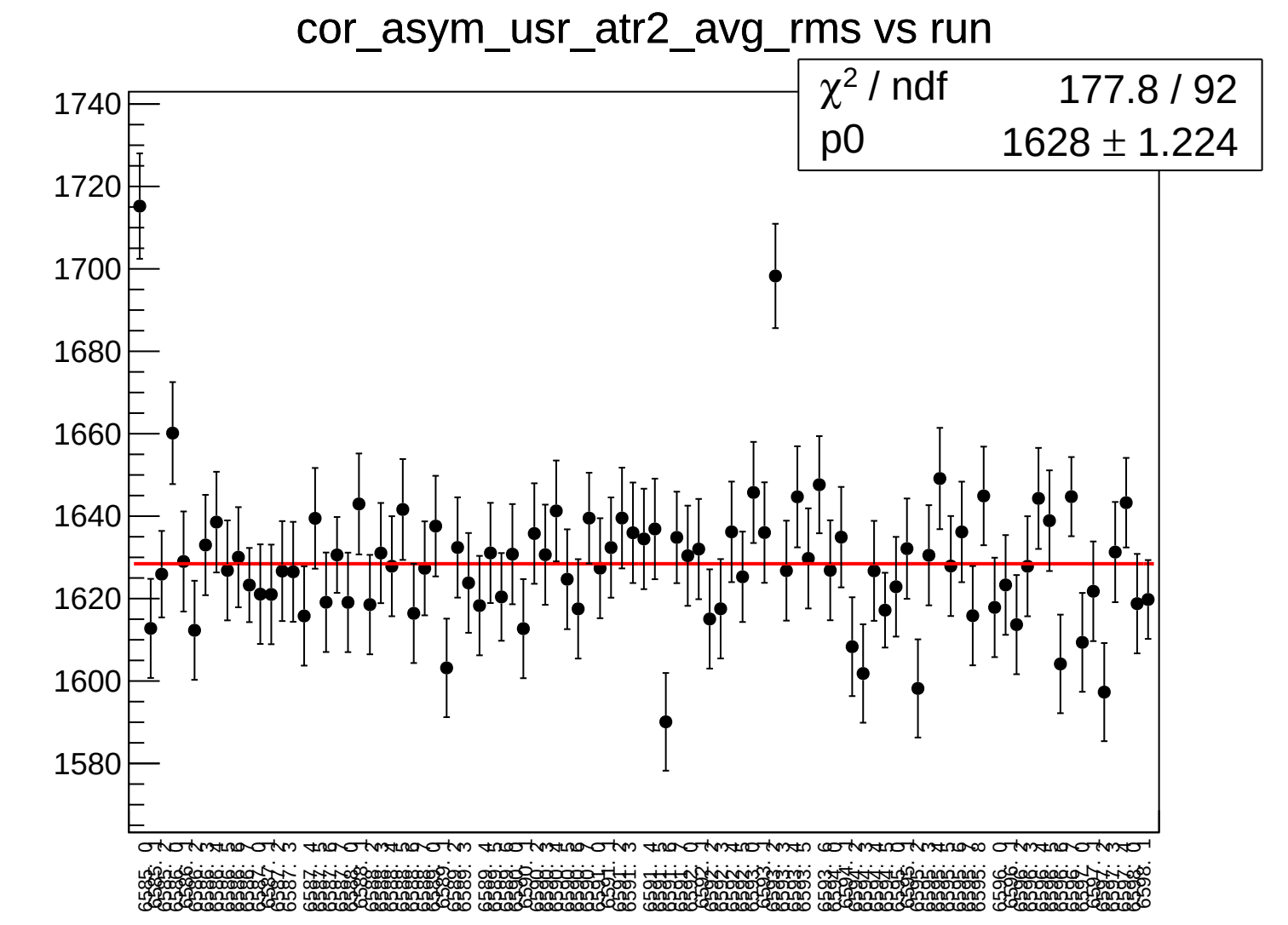

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 91.94 / 92
p0 2333 ± 4829
pull
Entries 93
Mean −6.649
Std Dev 353.5

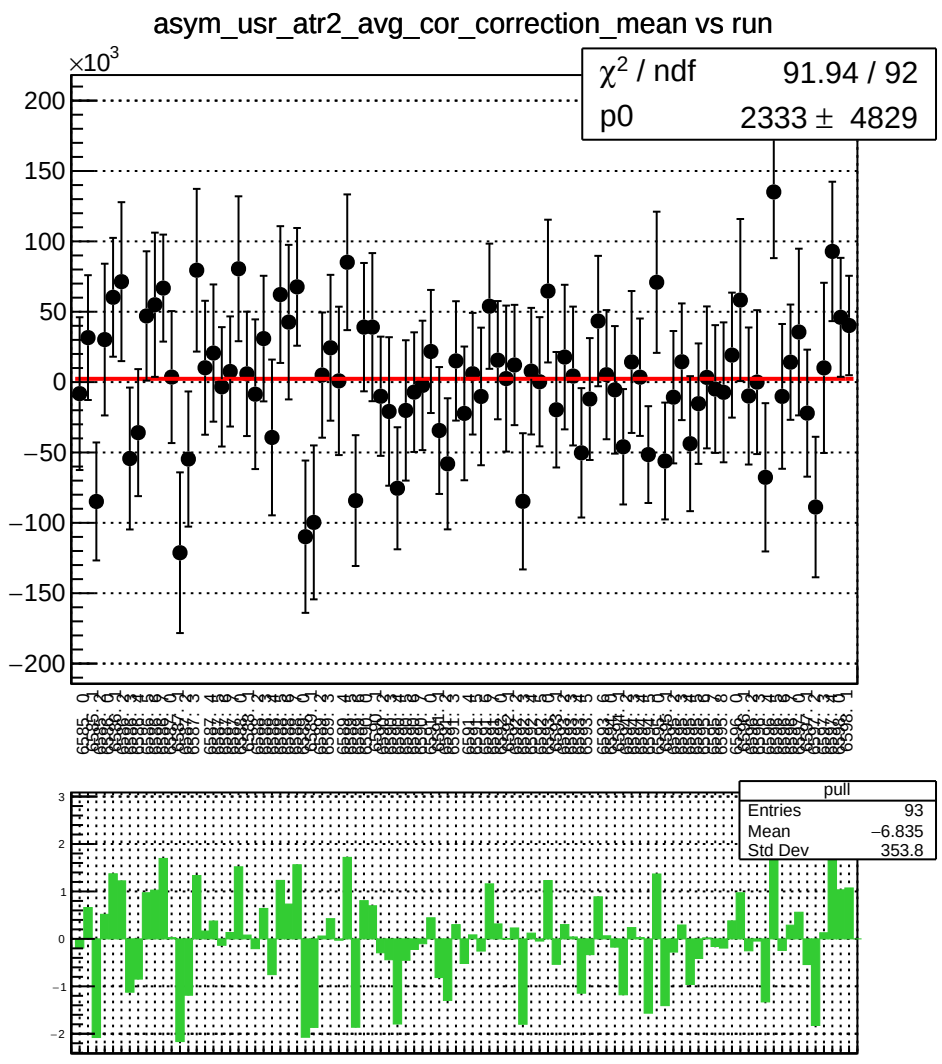

pull1D
Entries 93
Mean 0.000789
Std Dev 0.9943

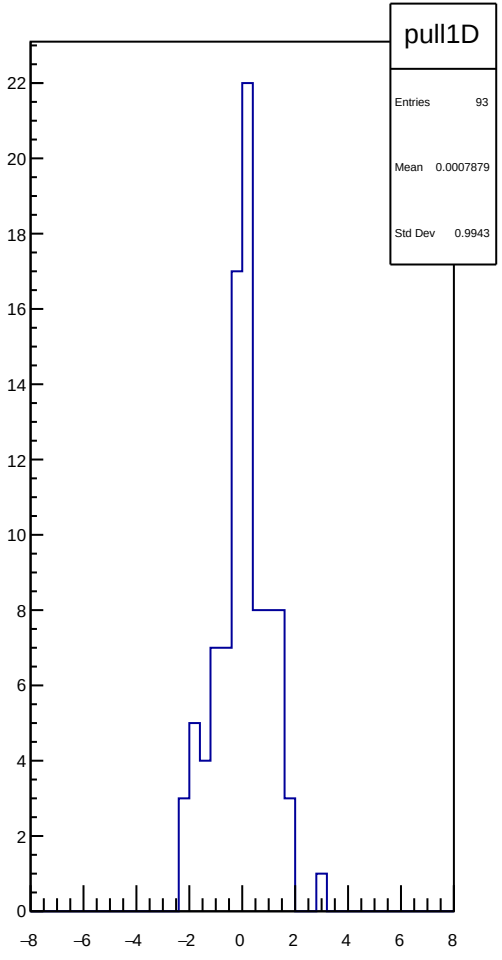

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.528e+04 / 92
p0 4524 ± 3.415
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

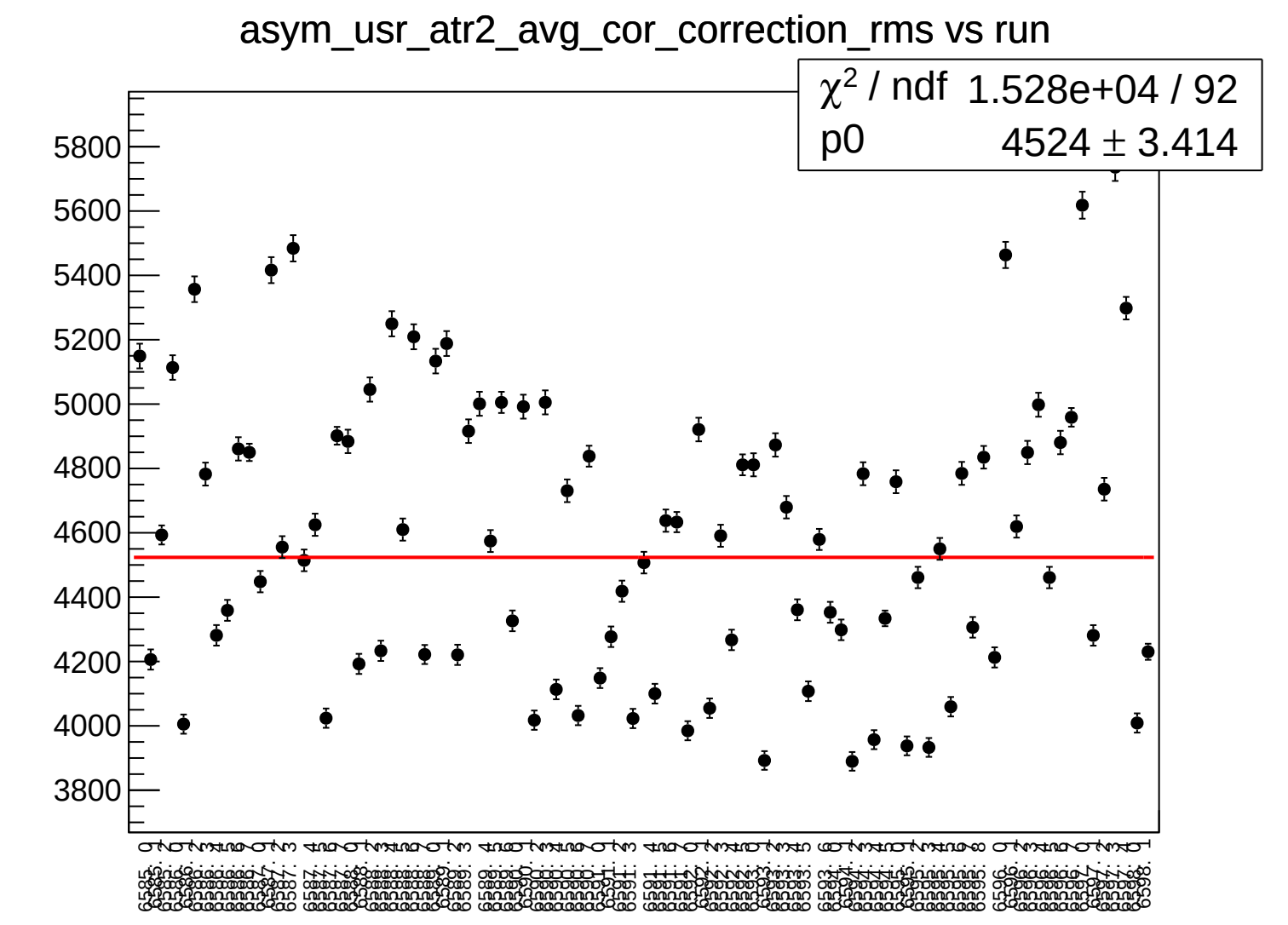

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 101.3 / 92
p0 −4701 ± 1731
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −118.3
Std Dev 0
3
2
1
0
−1
−2

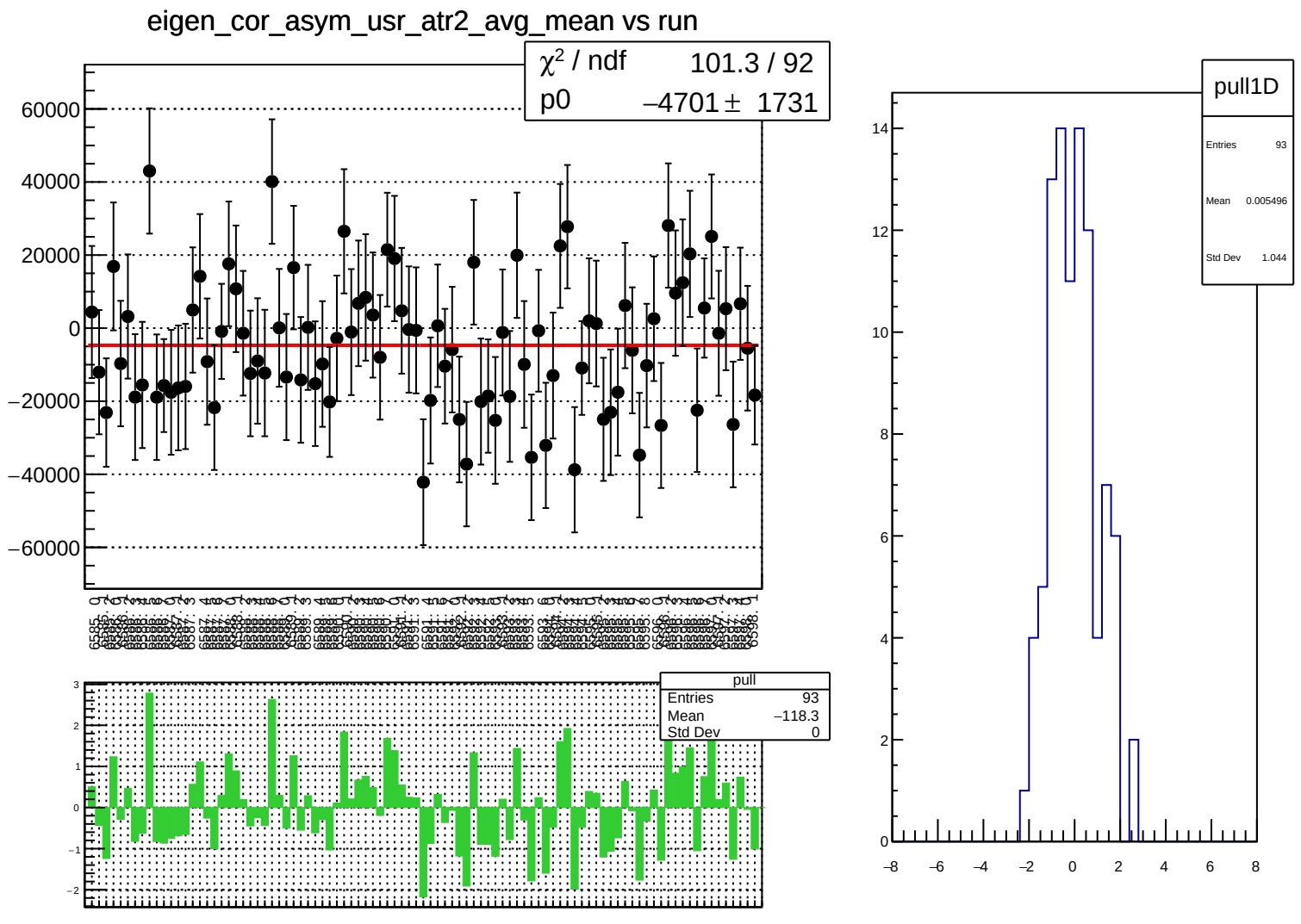

pull1D
Entries 93
Mean 0.005496
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

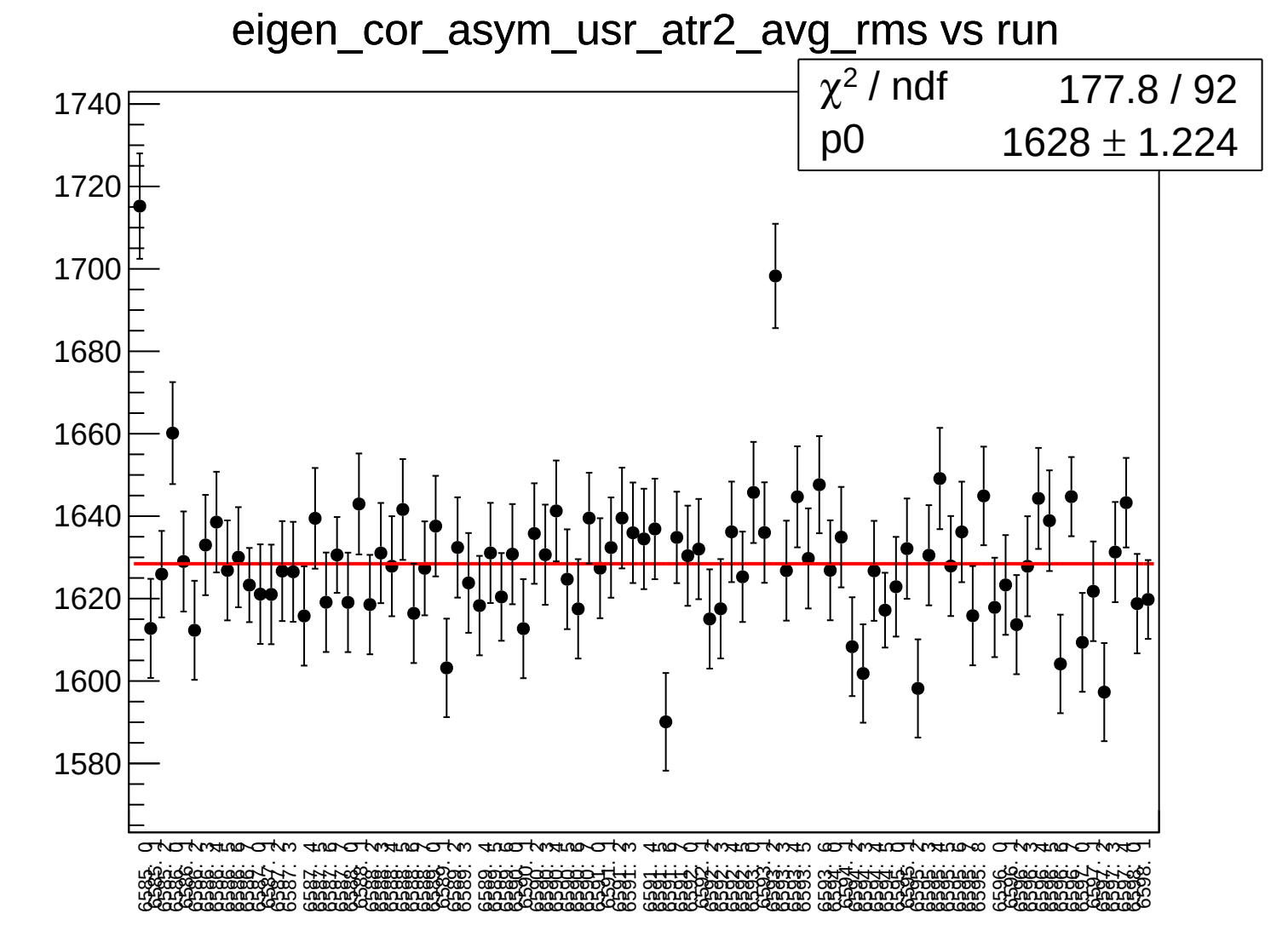

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 177.8 / 92
p0 1628 ± 1.224
1740
1720
1700
1680
1660
1640
1620
1600
1580

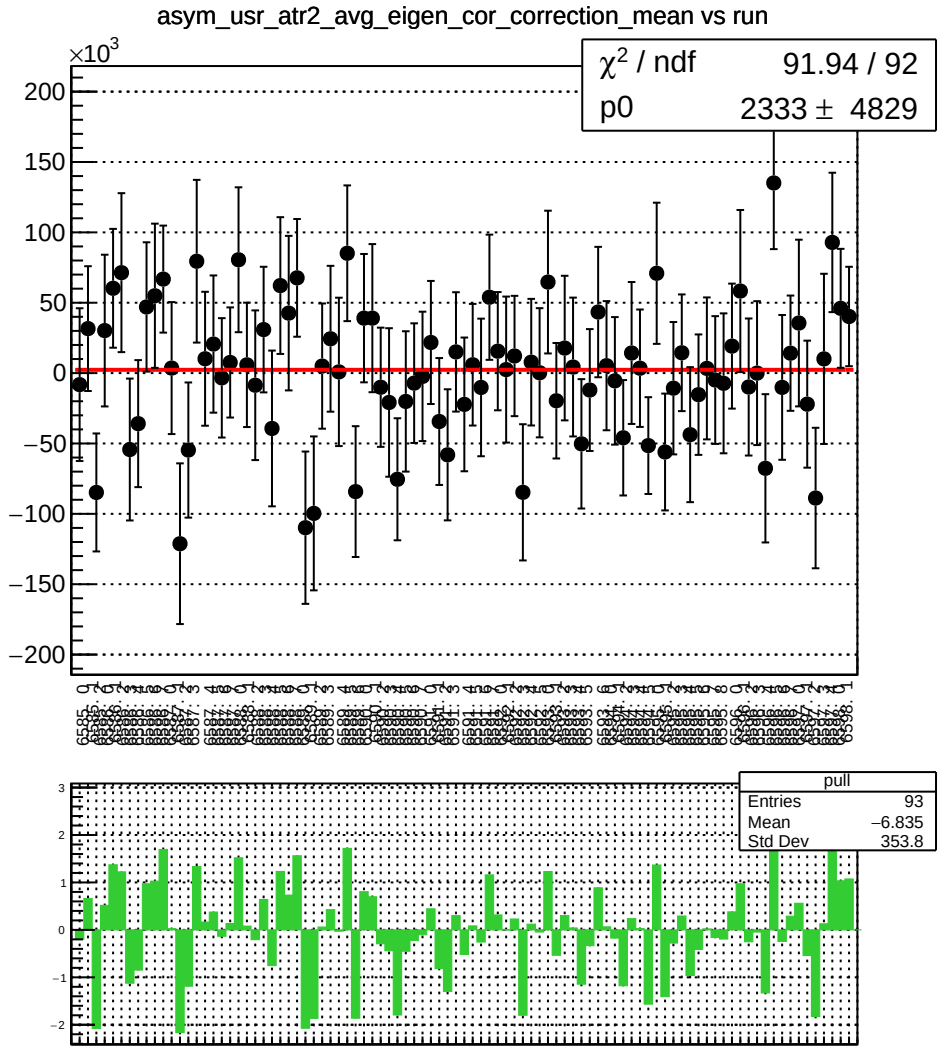

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 91.94 / 92
p0 2333 ± 4829
pull
Entries 93
Mean −6.835
Std Dev 353.8

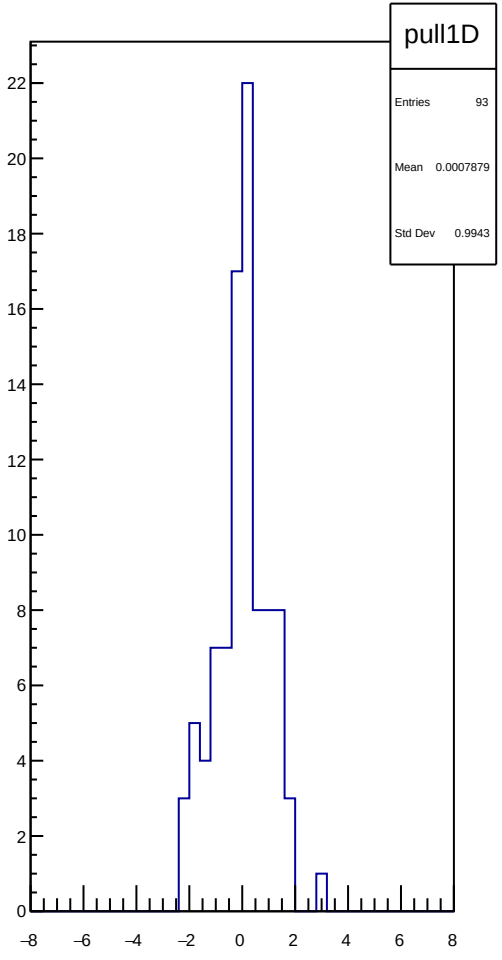

pull1D
Entries 93
Mean 0.0007879
Std Dev 0.9943

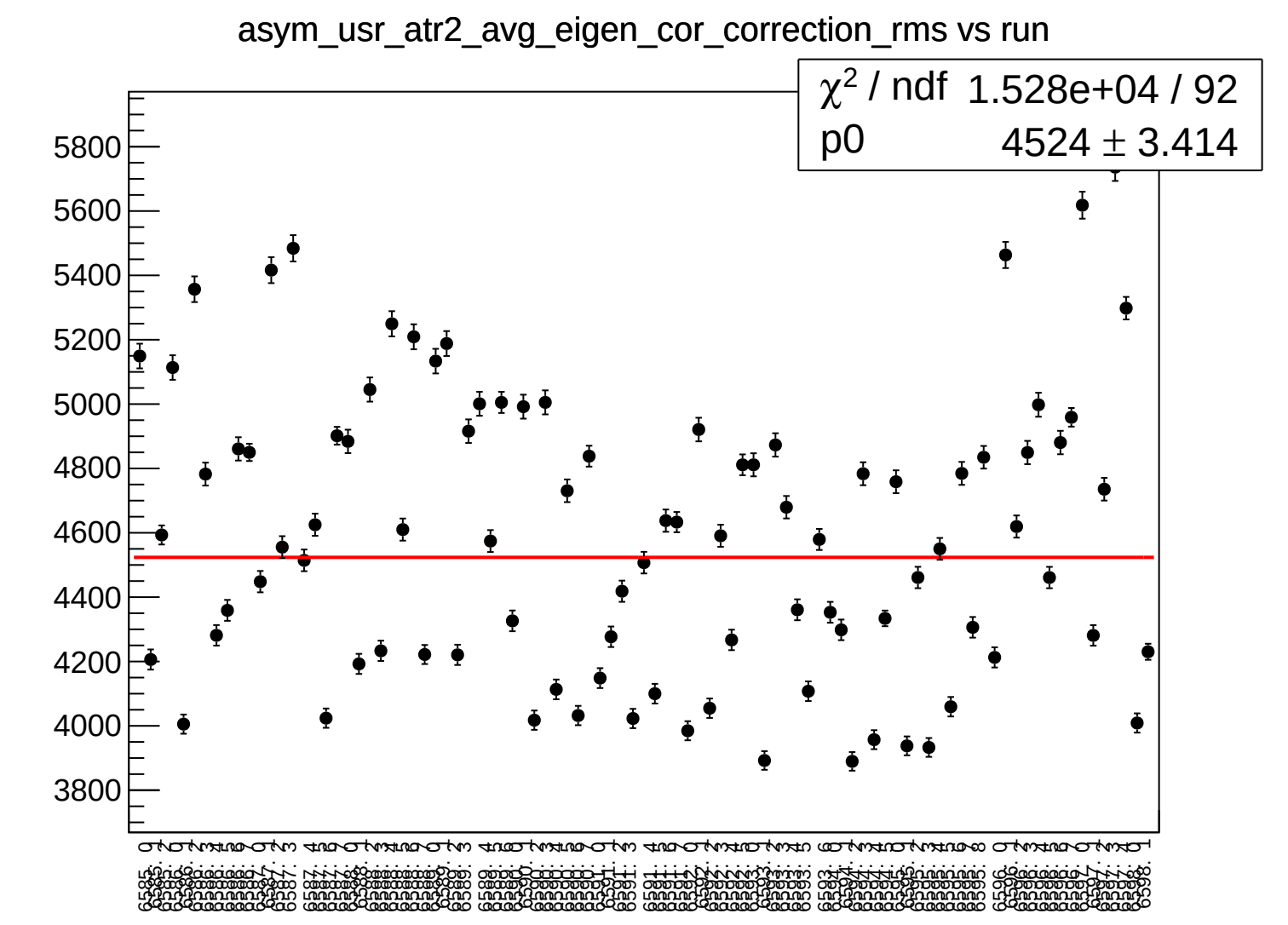

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1.528e+04 / 92
p0 4524 ± 3.414
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

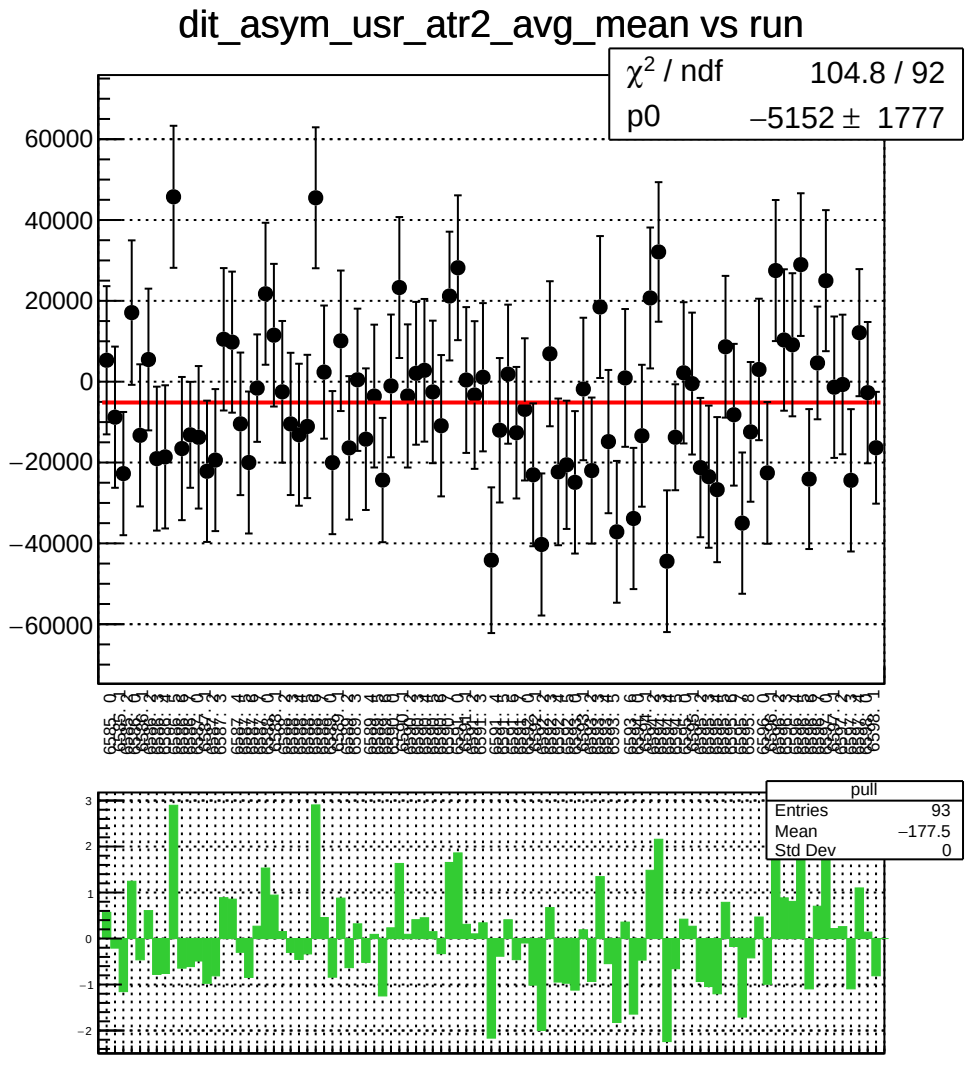

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 101.3 / 92
p0 −4701 ± 1731
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −118.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005496
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

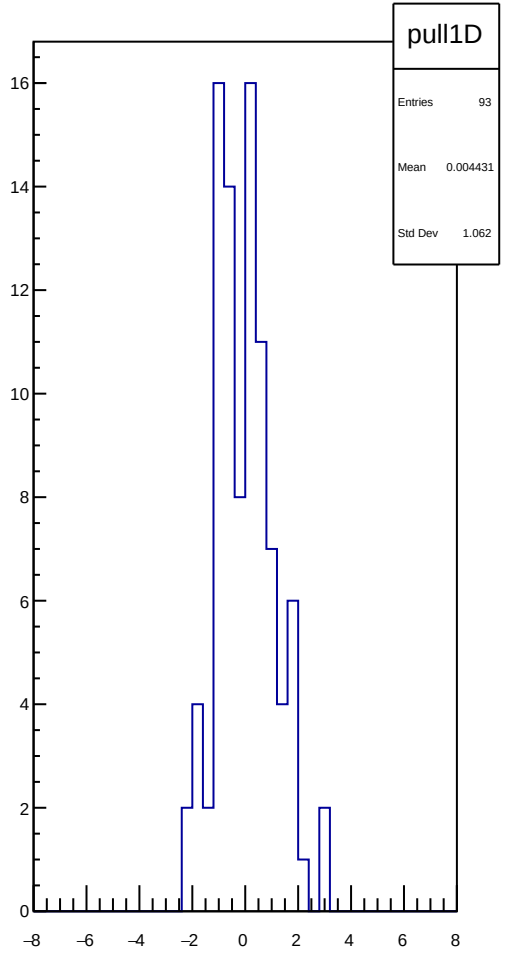

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 177.8 / 92
p0 1628 ± 1.224
1740
1720
1700
1680
1660
1640
1620
1600
1580

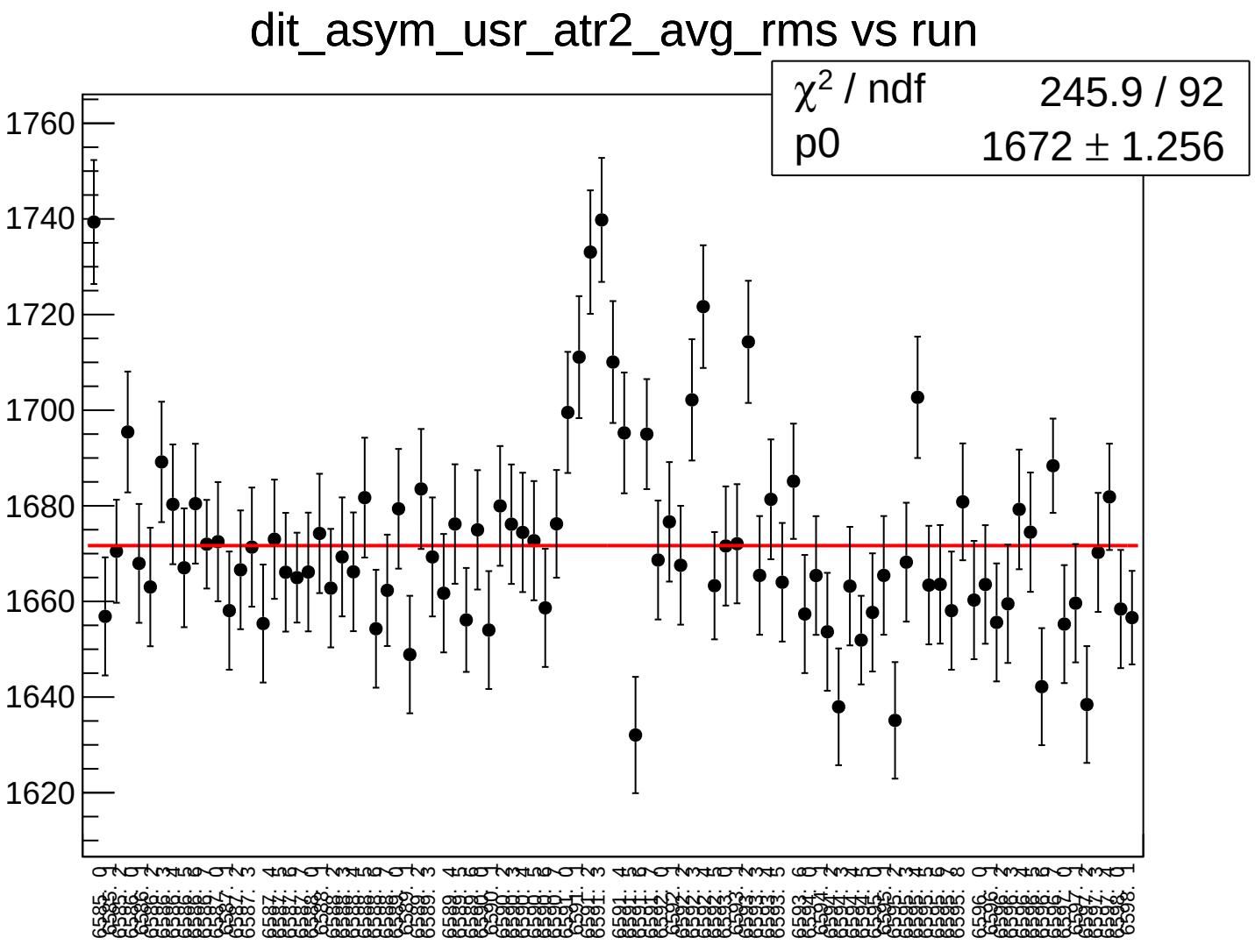

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.94 / 92
p0 2333 ± 4829
pull
Entries 93
Mean −6.835
Std Dev 353.8

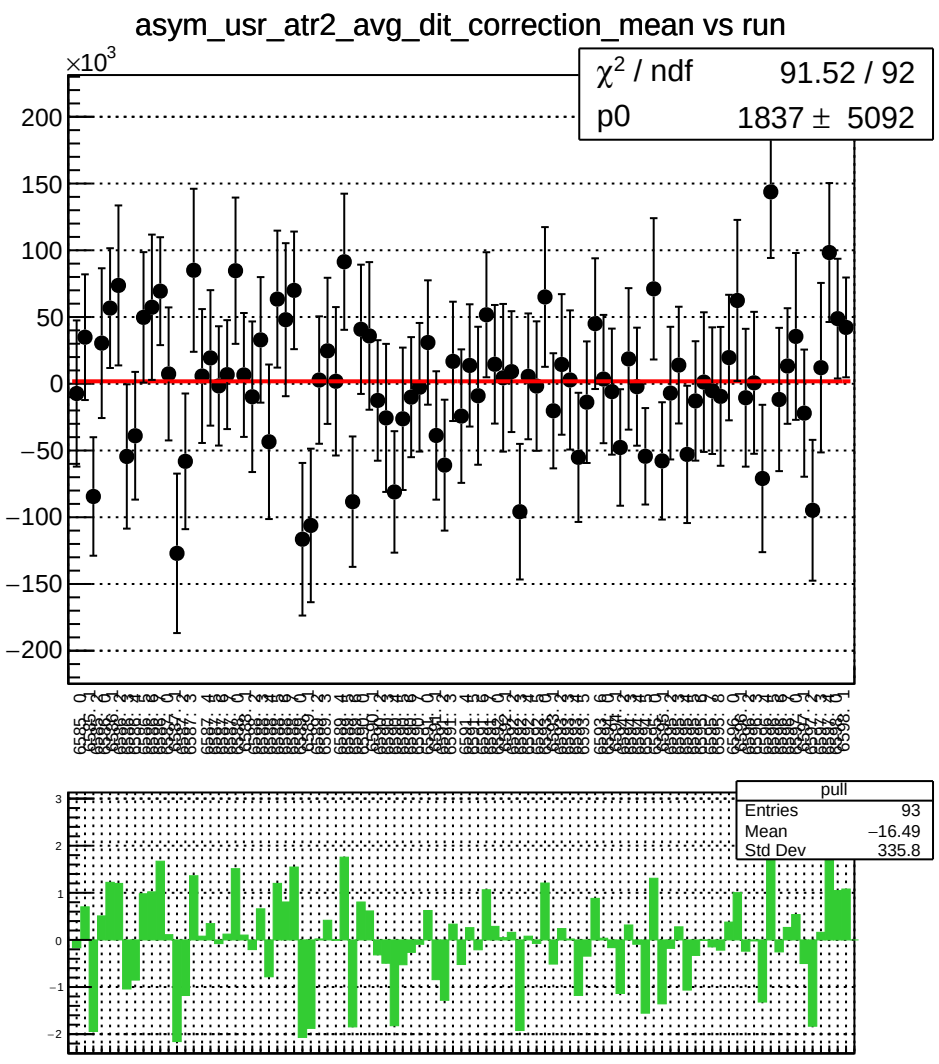

pull1D
Entries 93
Mean 0.0007879
Std Dev 0.9943

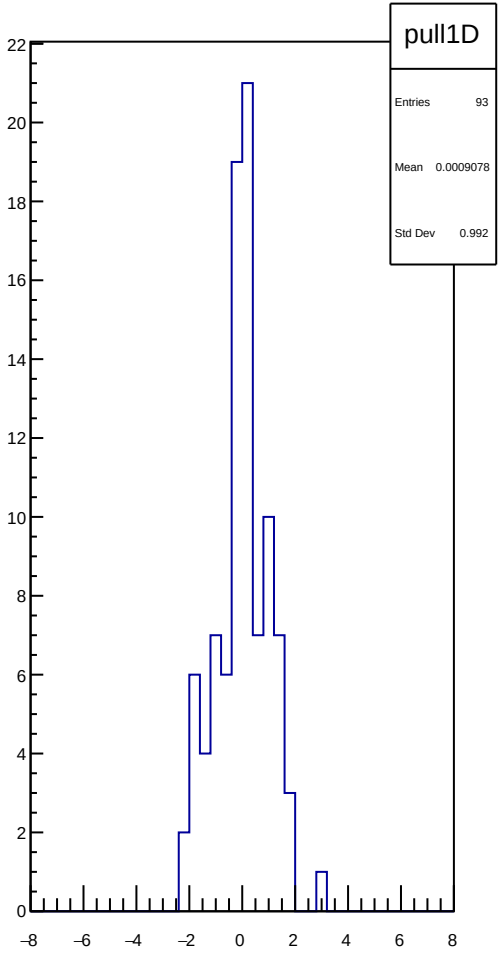

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.528e+04 / 92
p0 4524 ± 3.414
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

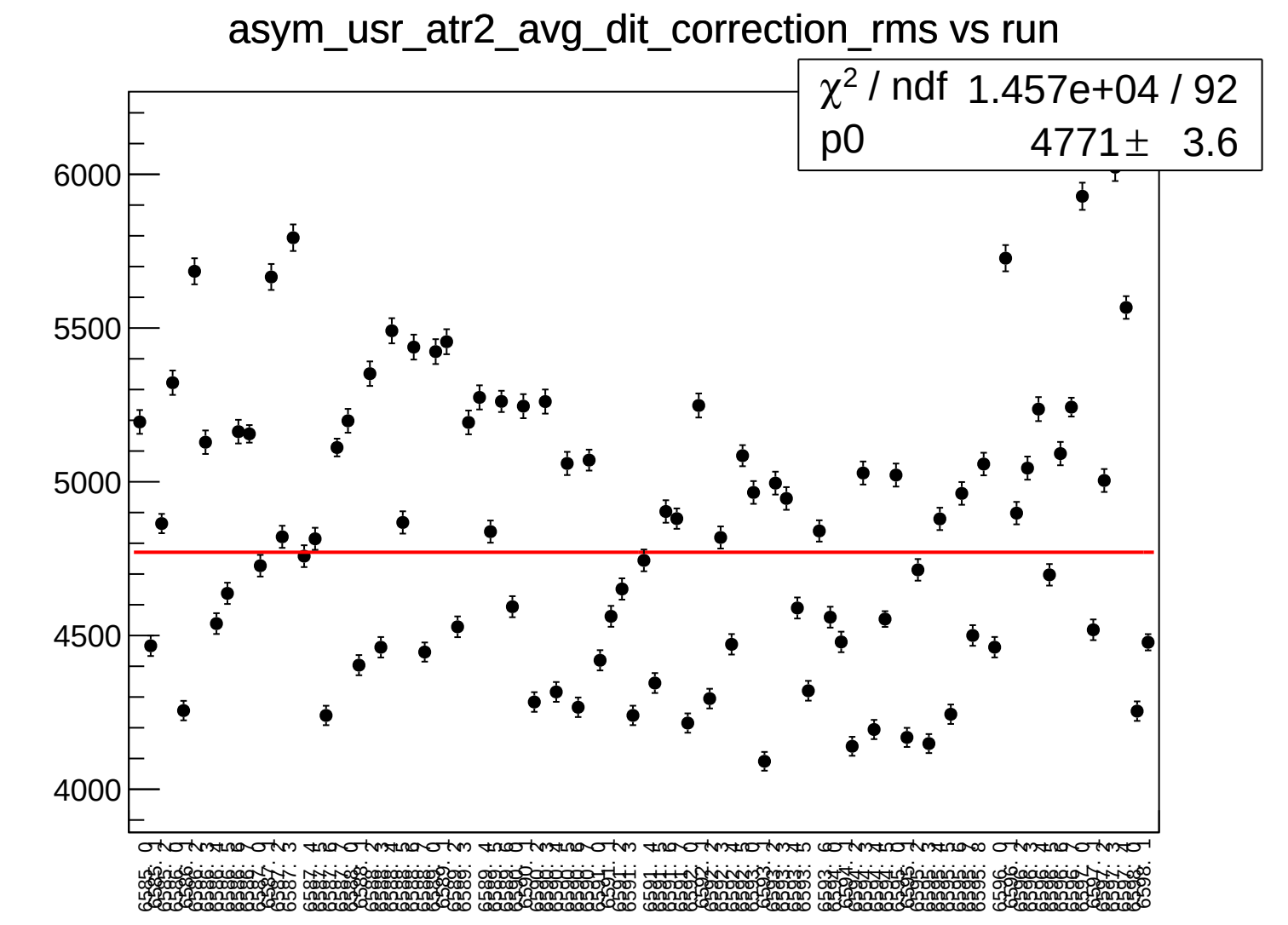

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 104.8 / 92
p0 −5152 ± 1777
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −177.5
Std Dev 0
3
2
1
0
−1
−2

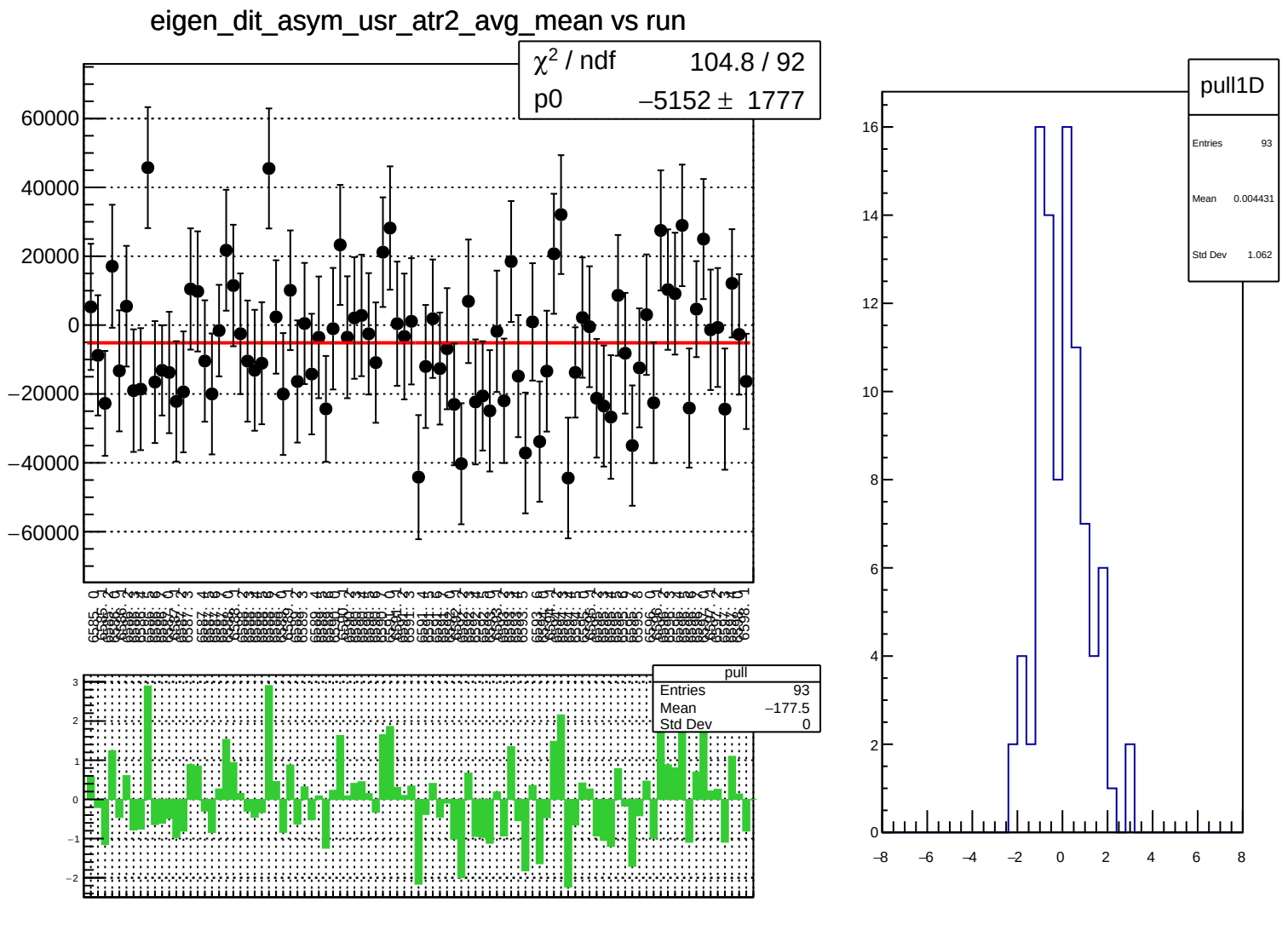

pull1D
Entries 93
Mean 0.004431
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

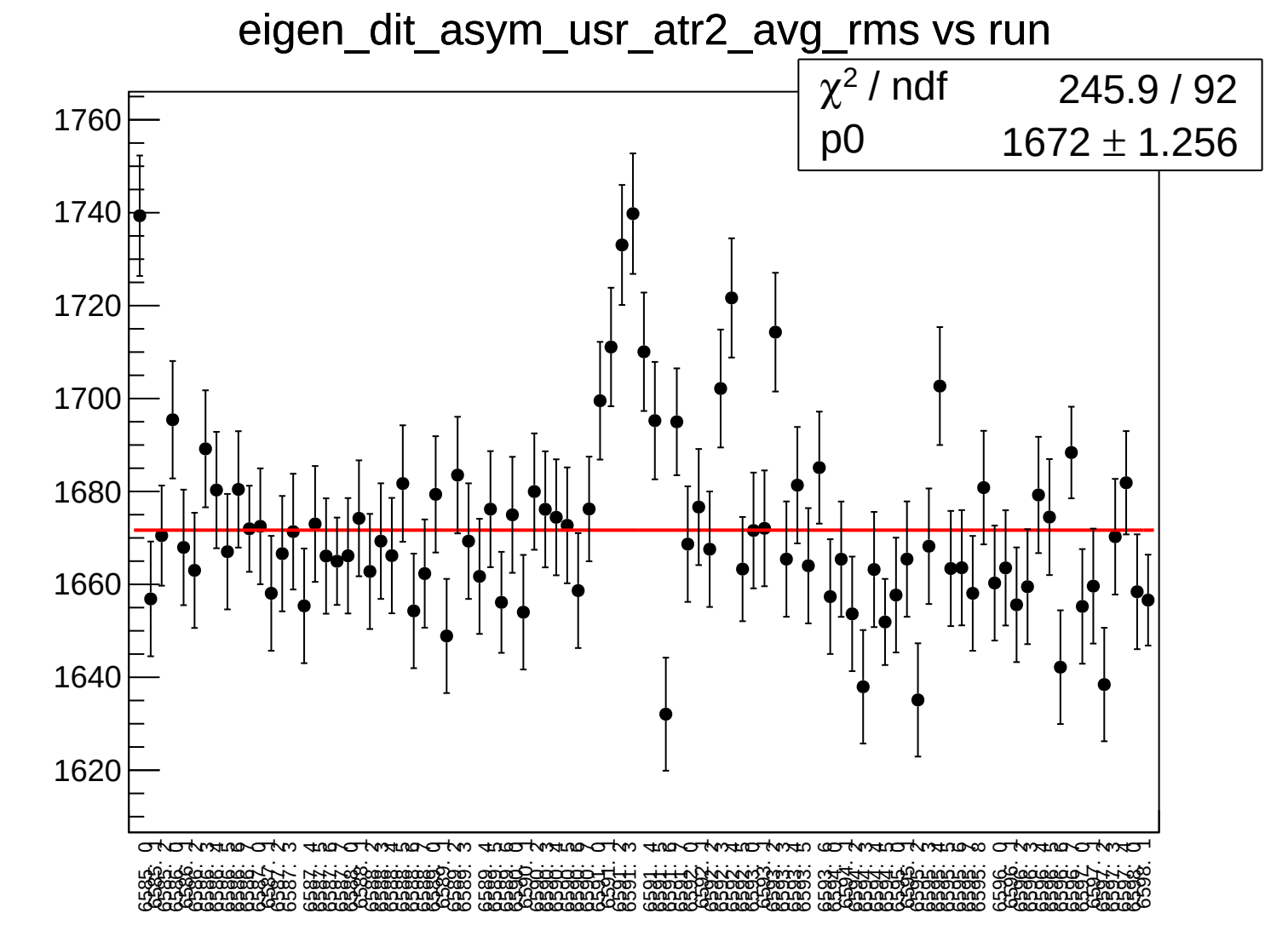

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 245.9 / 92
p0 1672 ± 1.256
1760
1740
1720
1700
1680
1660
1640
1620

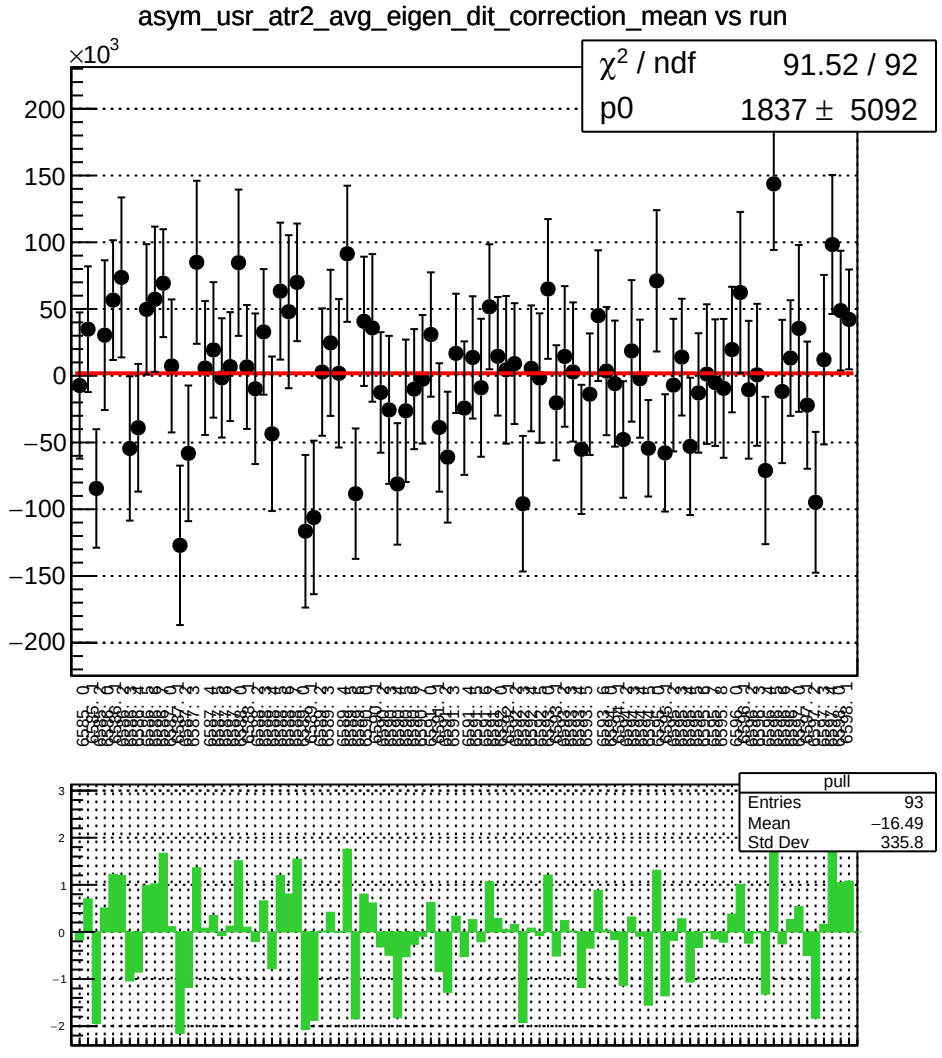

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.52 / 92
p0 1837 ± 5092
pull
Entries 93
Mean −16.49
Std Dev 335.8

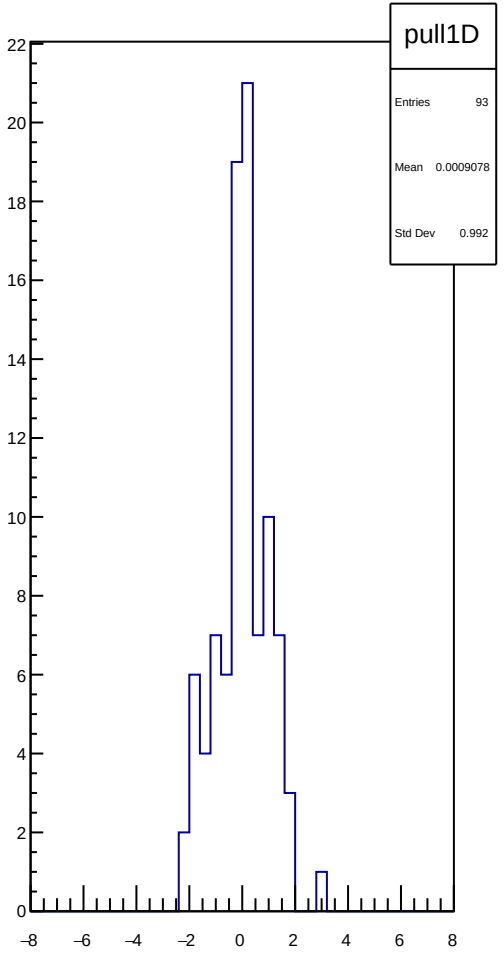

pull1D
Entries 93
Mean 0.0009078
Std Dev 0.992

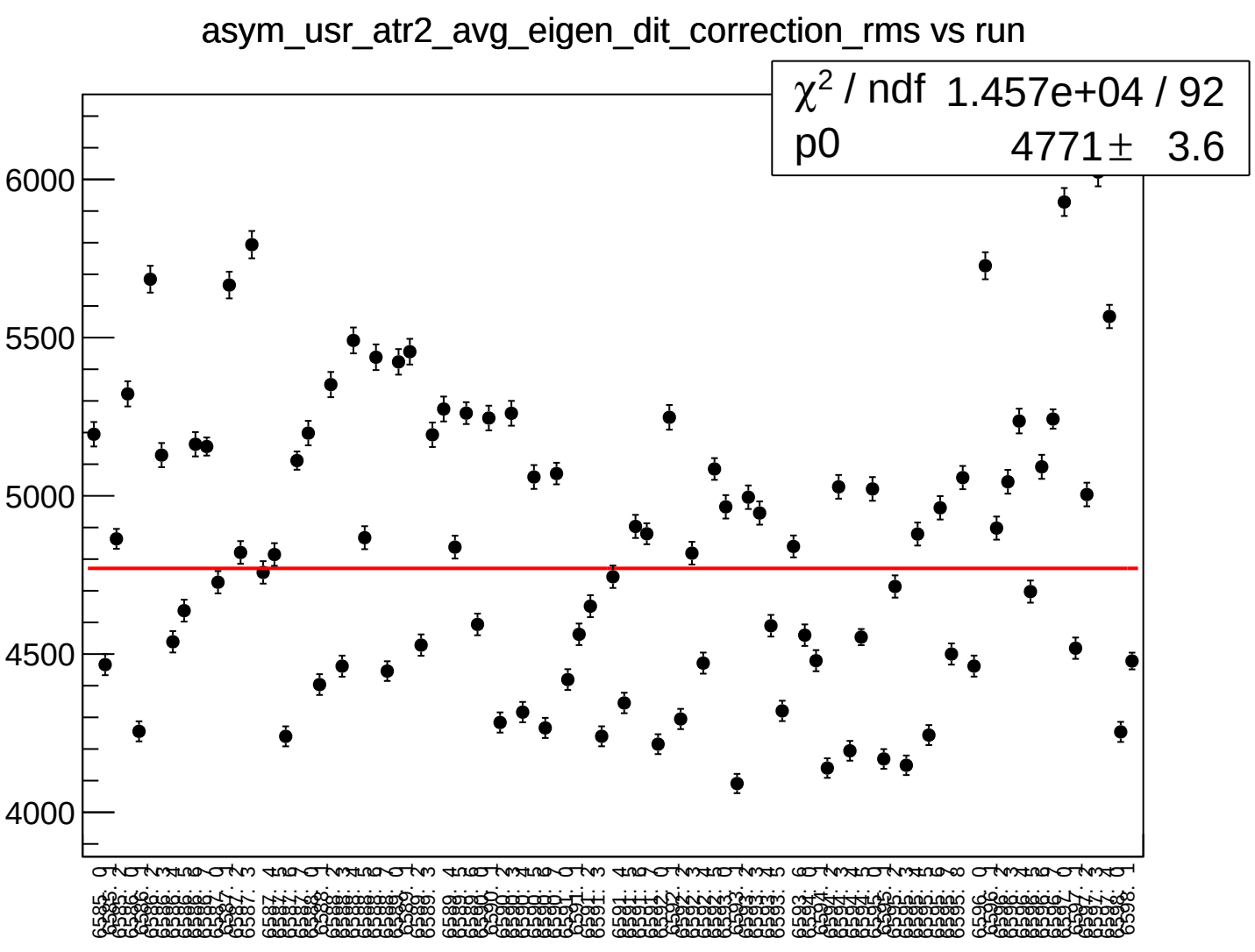

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1.457e+04 / 92
p0 4771 ± 3.6
6000
5500
5000
4500
4000

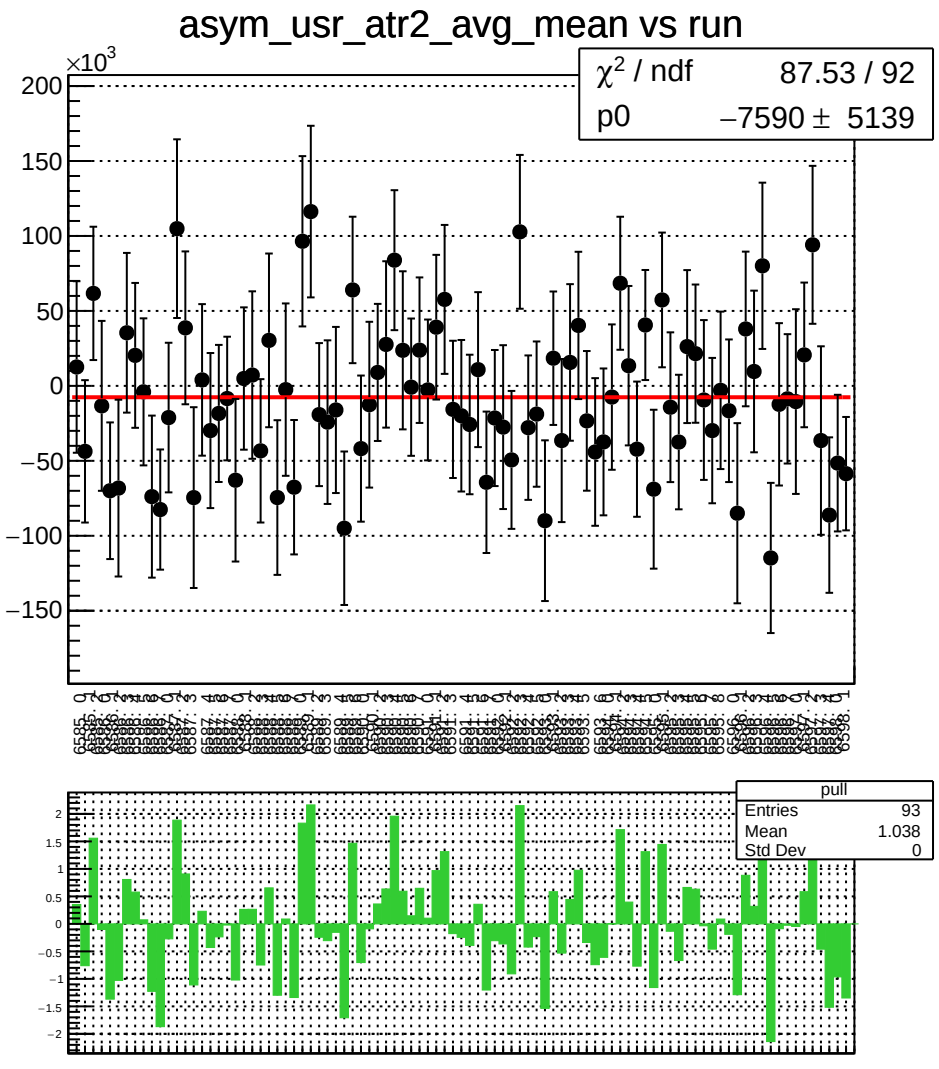

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 104.8 / 92
p0 −5152 ± 1777
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −177.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.004431
Std Dev 1.062
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

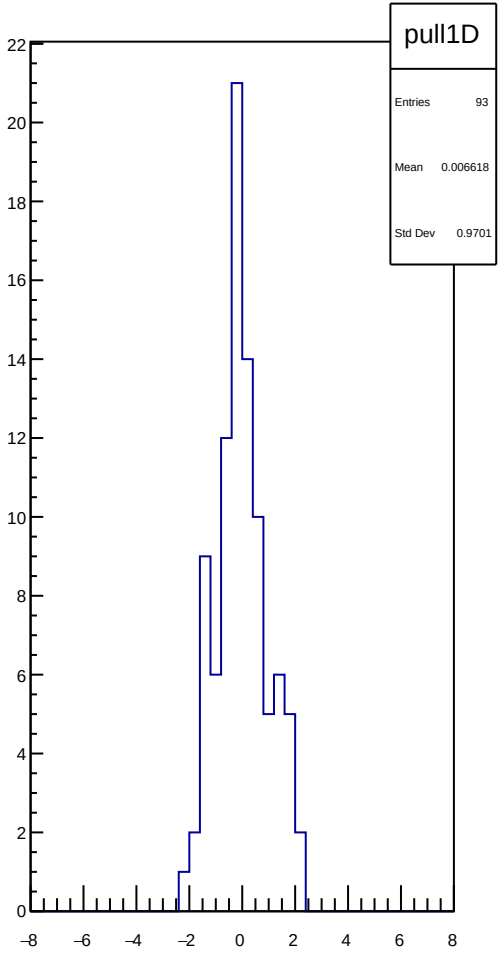

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 245.9 / 92
p0 1672 ± 1.256
1760
1740
1720
1700
1680
1660
1640
1620

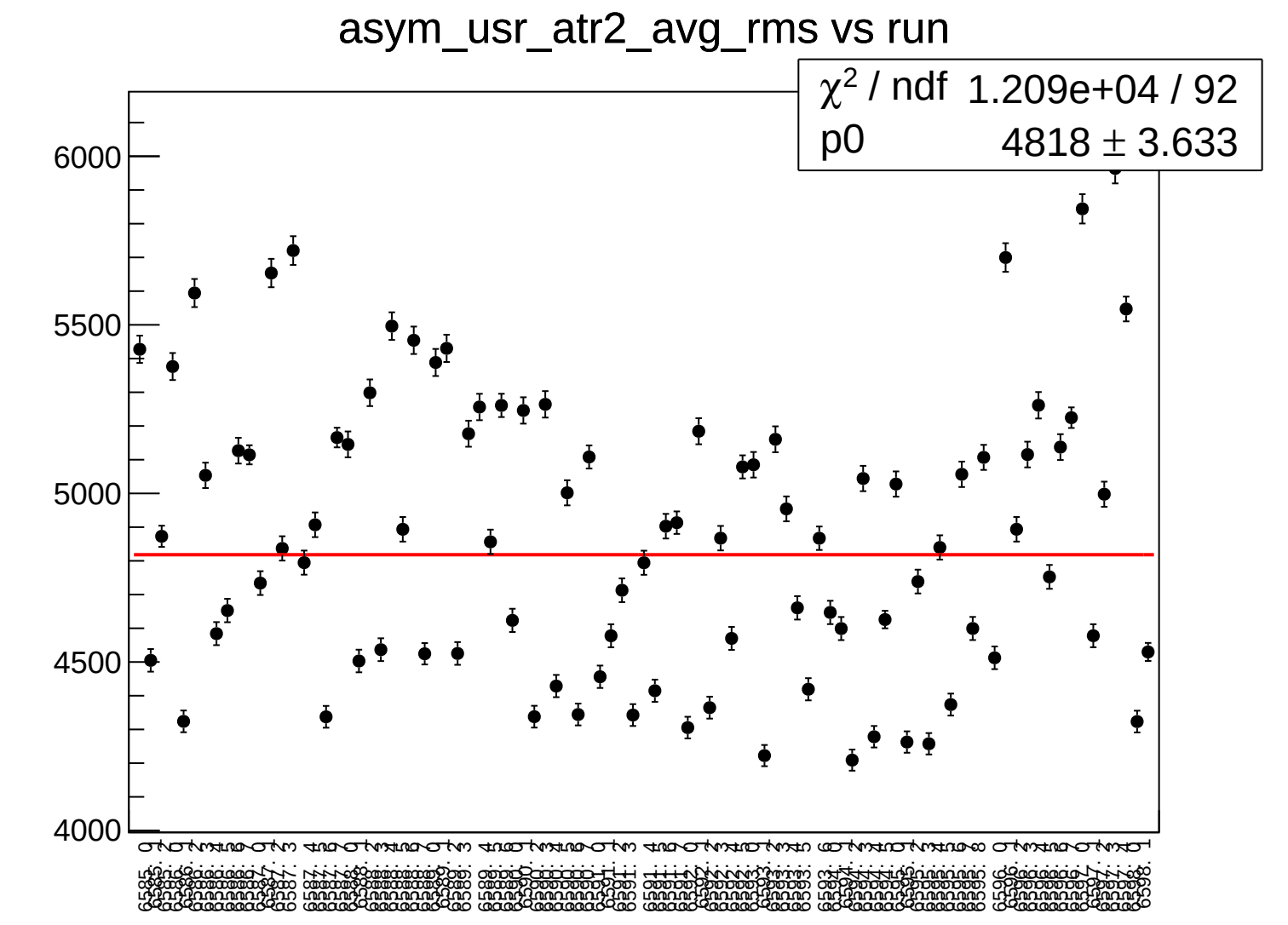

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.52 / 92
p0 1837 ± 5092
pull
Entries 93
Mean −16.49
Std Dev 335.8

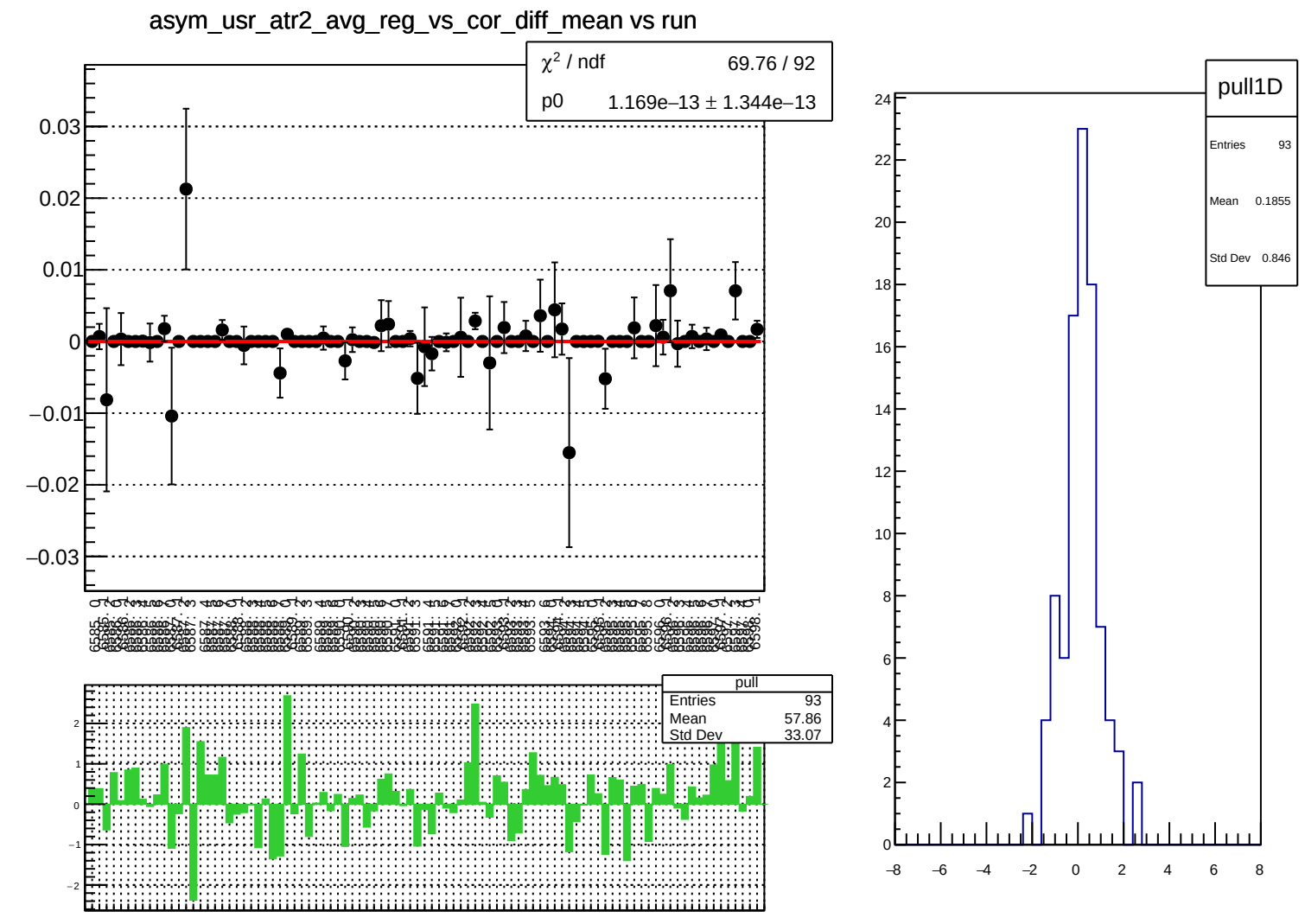

pull1D
Entries 93
Mean 0.0009078
Std Dev 0.992

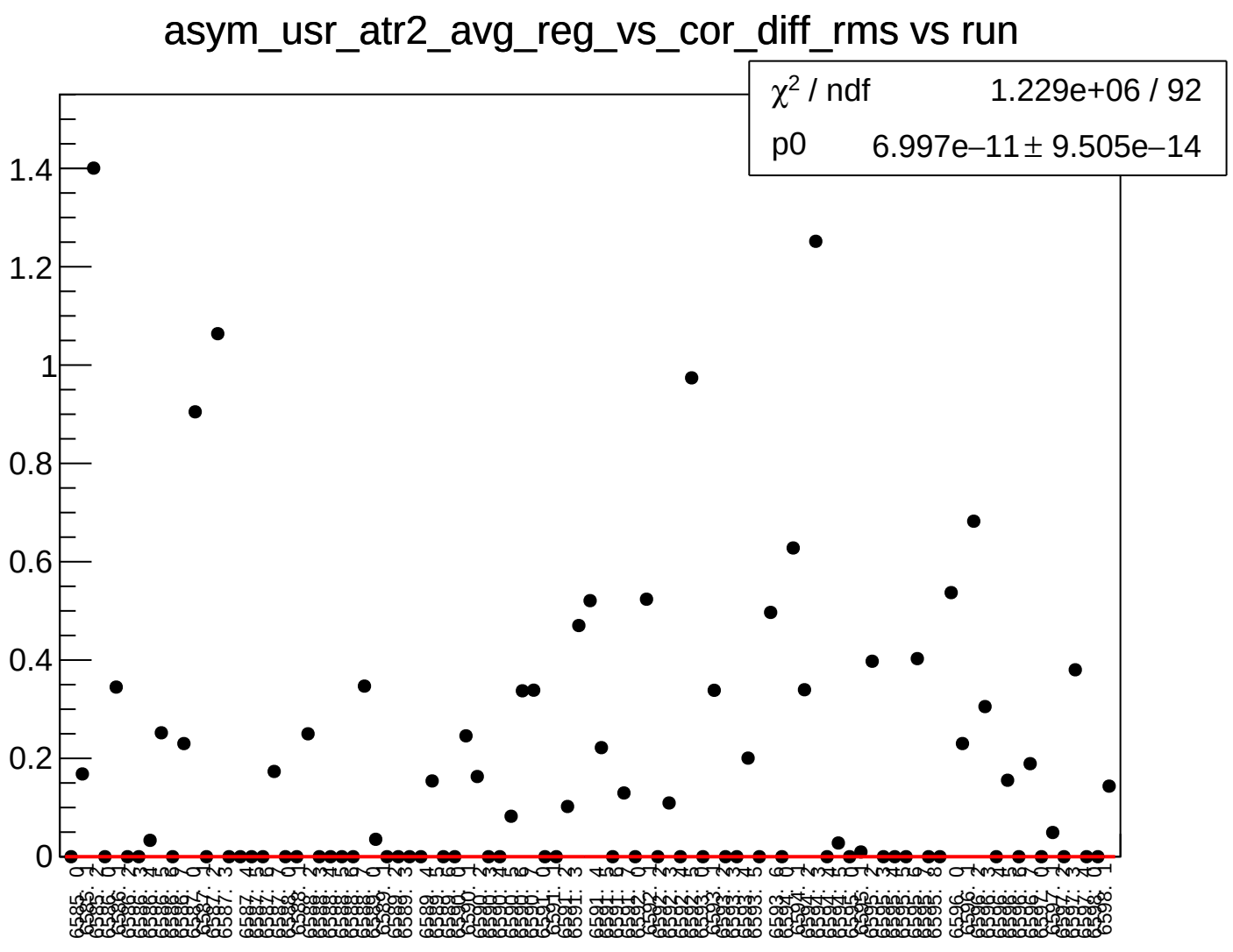

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.457e+04 / 92
p0 4771 ± 3.6
6000
5500
5000
4500
4000

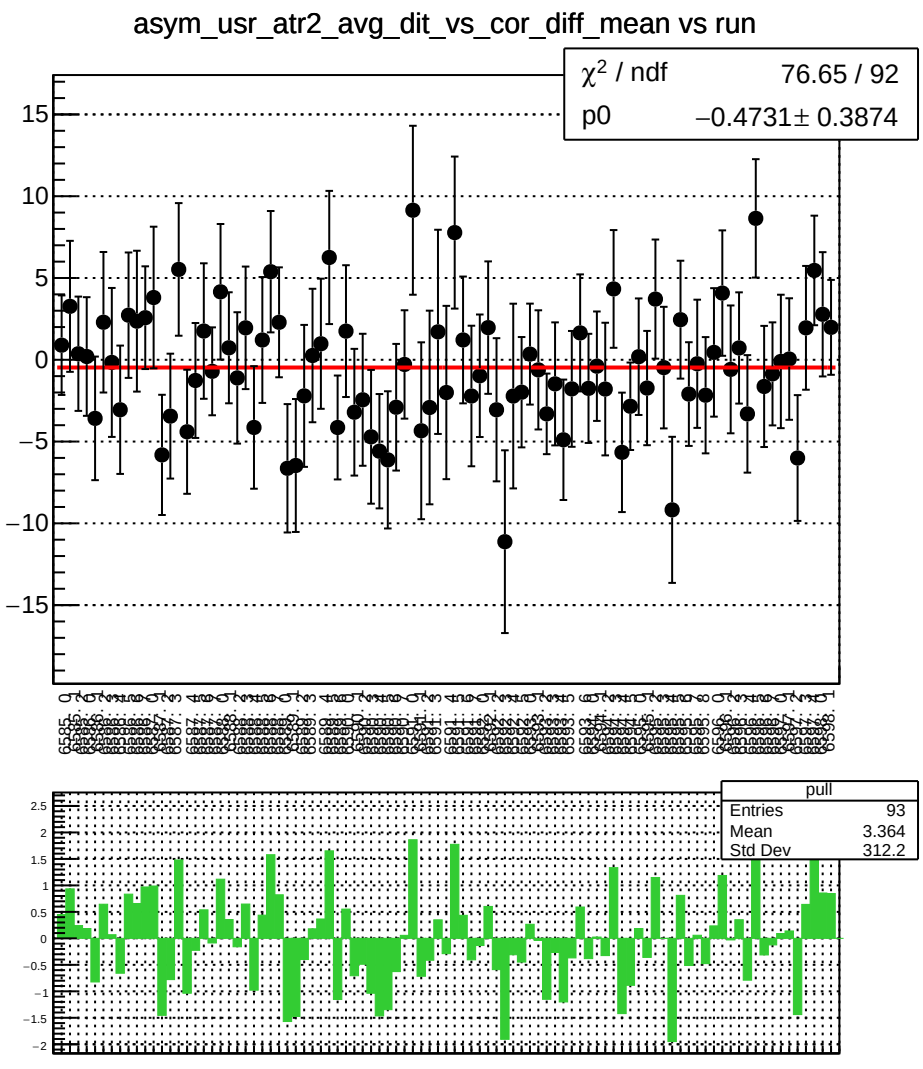

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 87.53 / 92
p0 −7590 ± 5139
pull
Entries 93
Mean 1.038
Std Dev 0

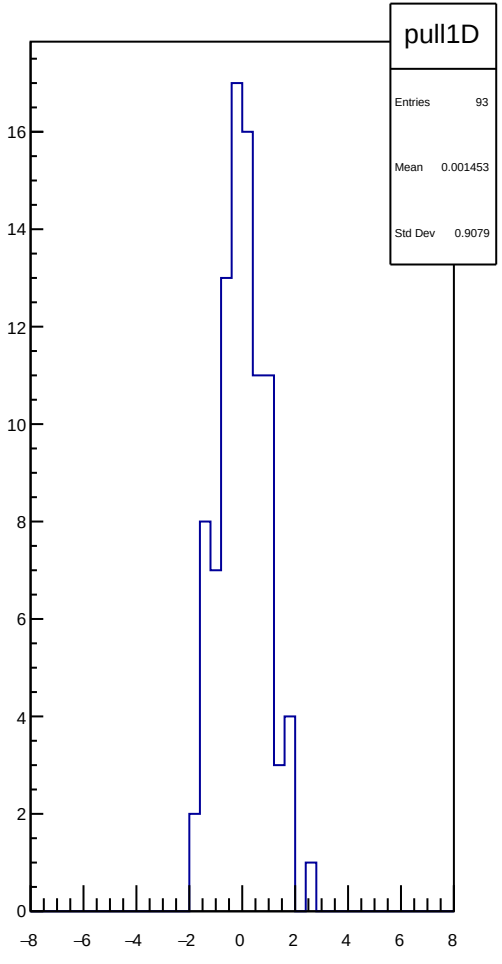

pull1D
Entries 93
Mean 0.006618
Std Dev 0.9701

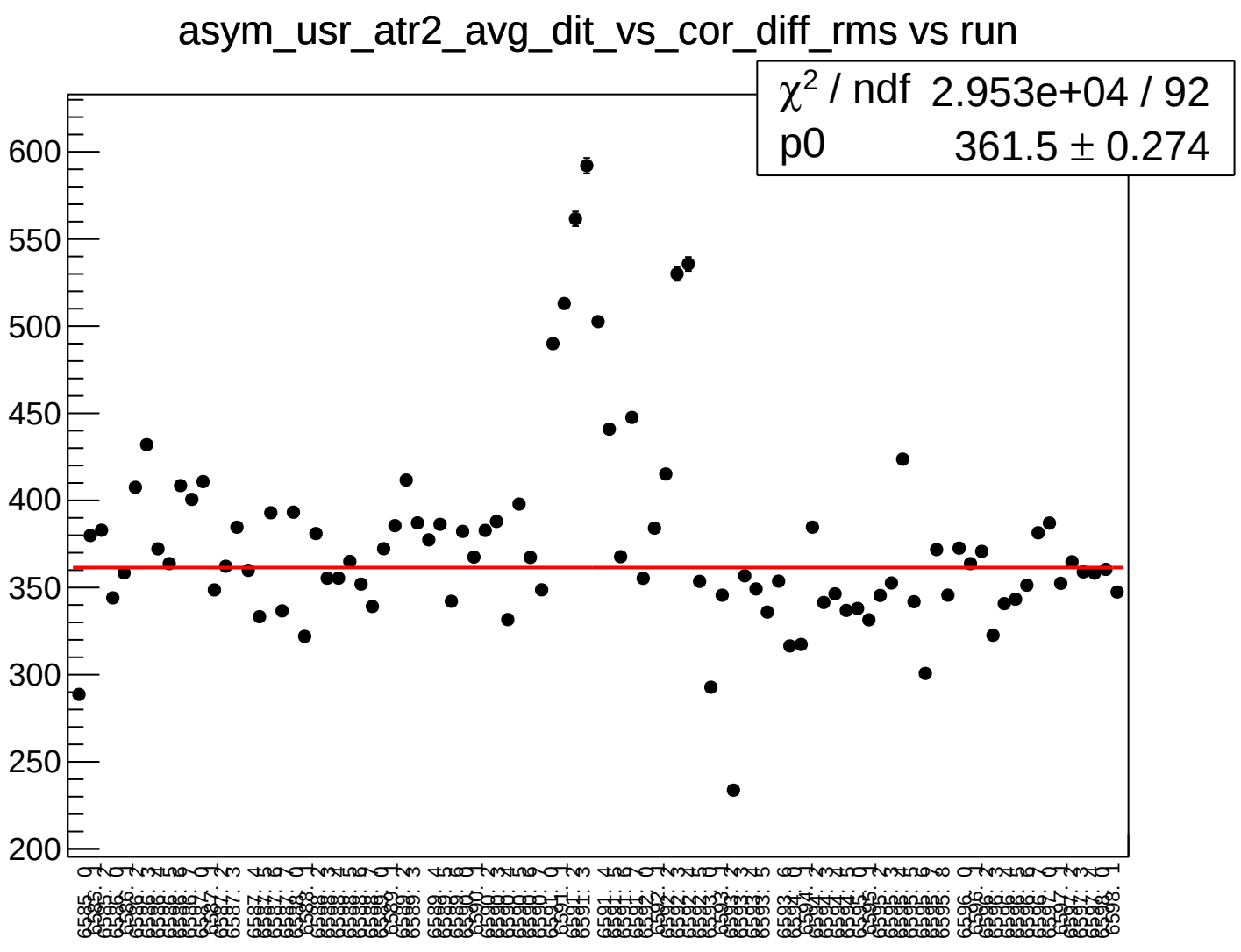

asym_usr_atr2_avg_rms vs run
χ² / ndf 1.209e+04 / 92
p0 4818 ± 3.633
6000
5500
5000
4500
4000

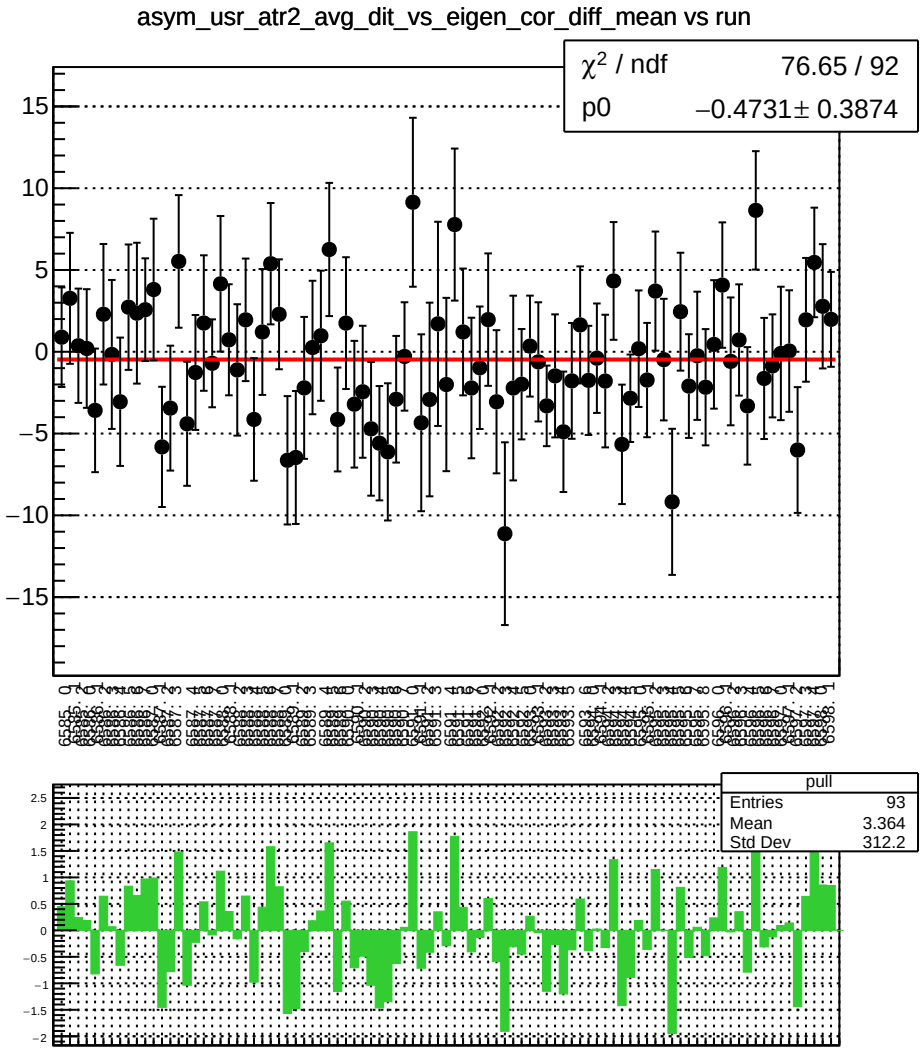

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.76 / 92
p0 1.169e−13 ± 1.344e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 57.86
Std Dev 33.07
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1855
Std Dev 0.846
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

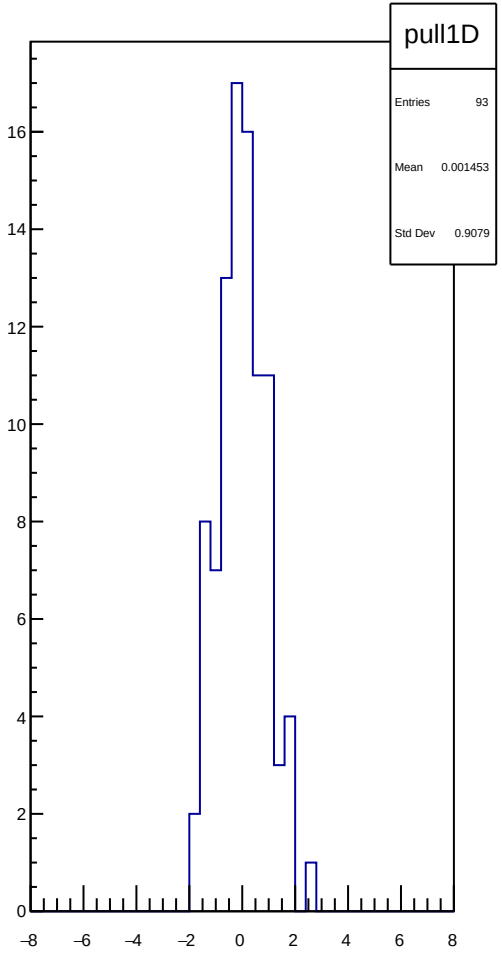

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.229e+06 / 92
p0 6.997e−11 ± 9.505e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

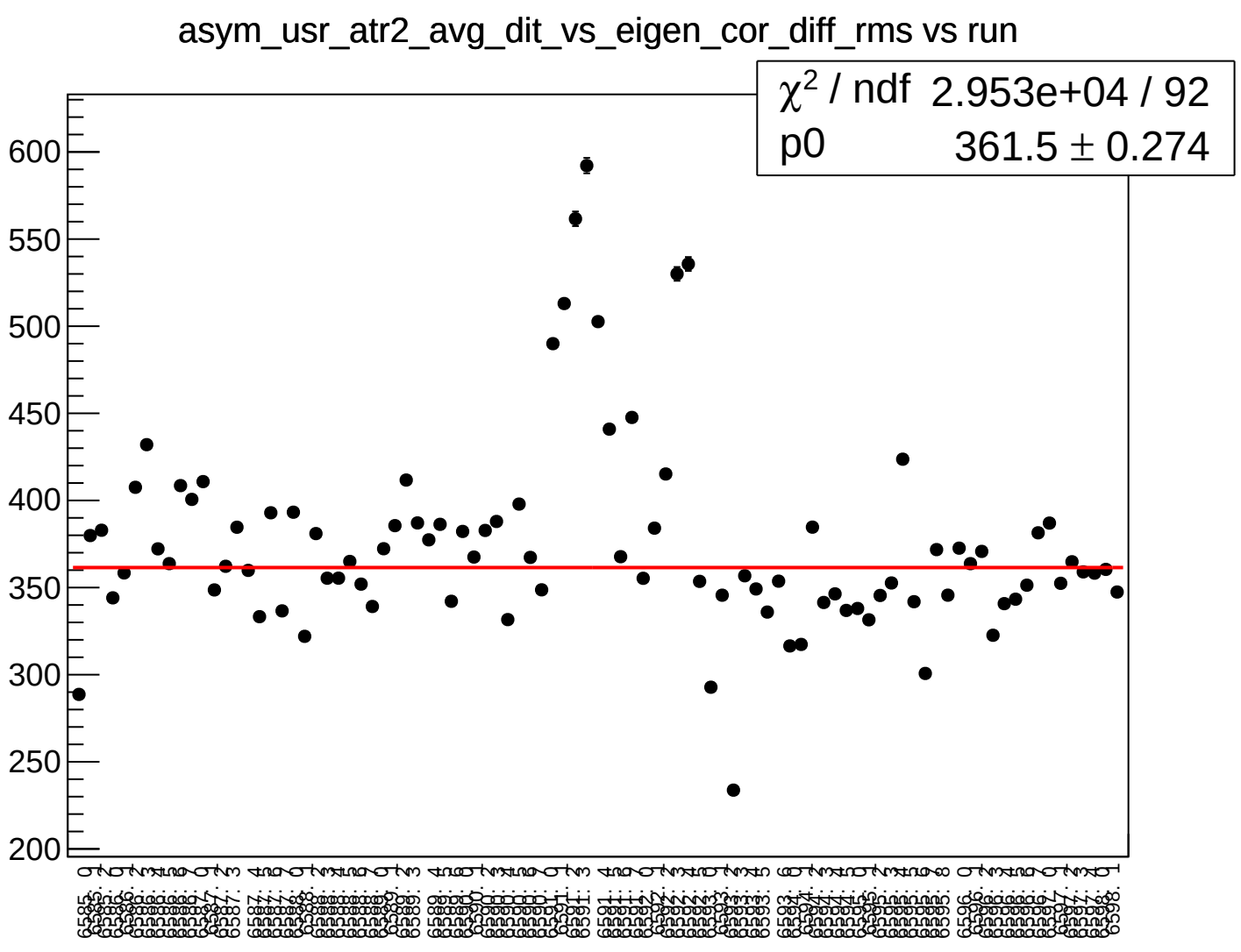

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.65 / 92
p0 −0.4731± 0.3874
pull
Entries 93
Mean 3.364
Std Dev 312.2

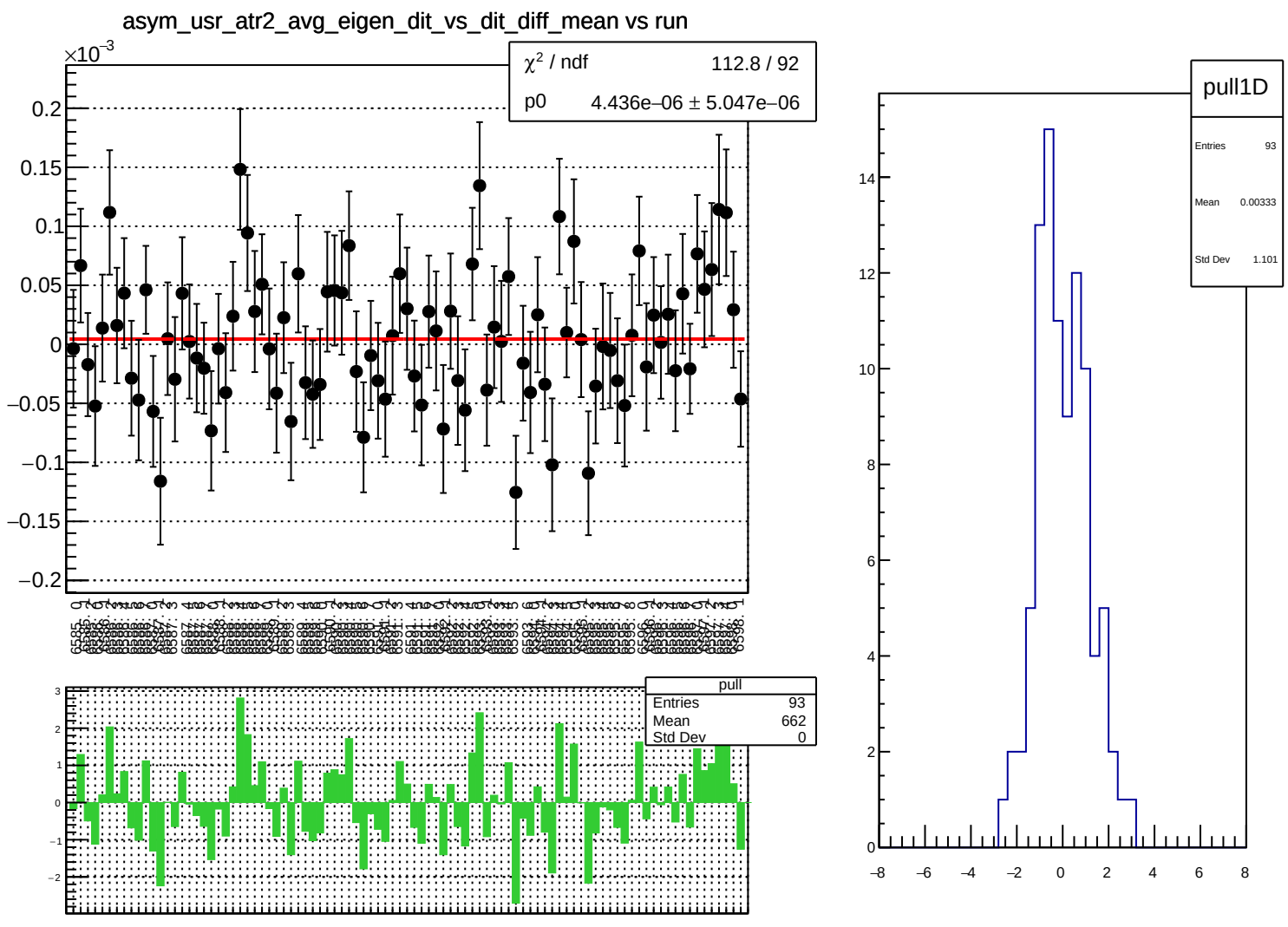

pull1D
Entries 93
Mean 0.001453
Std Dev 0.9079

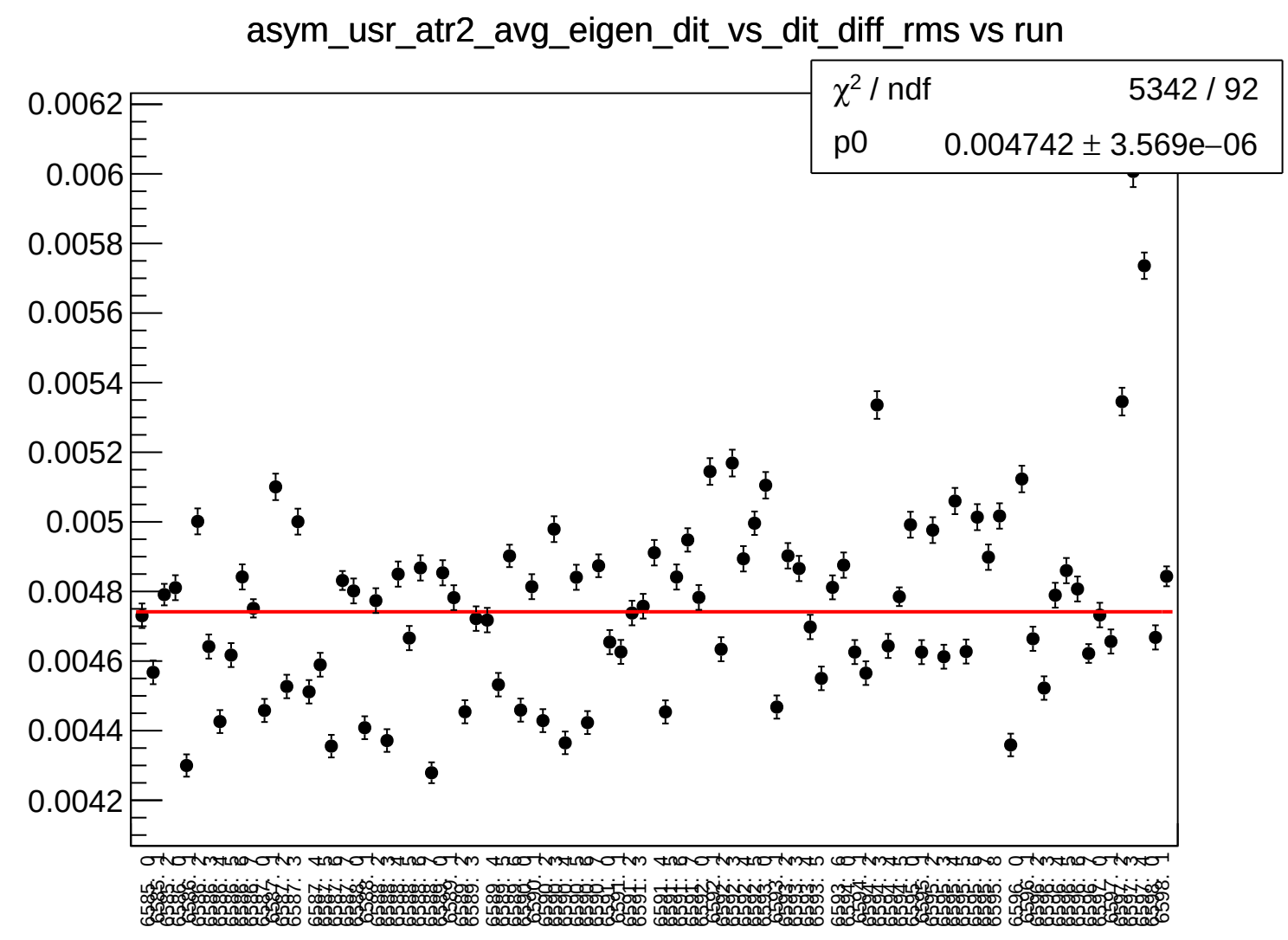

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.953e+04 / 92
p0 361.5 ± 0.274
600
550
500
450
400
350
300
250
200

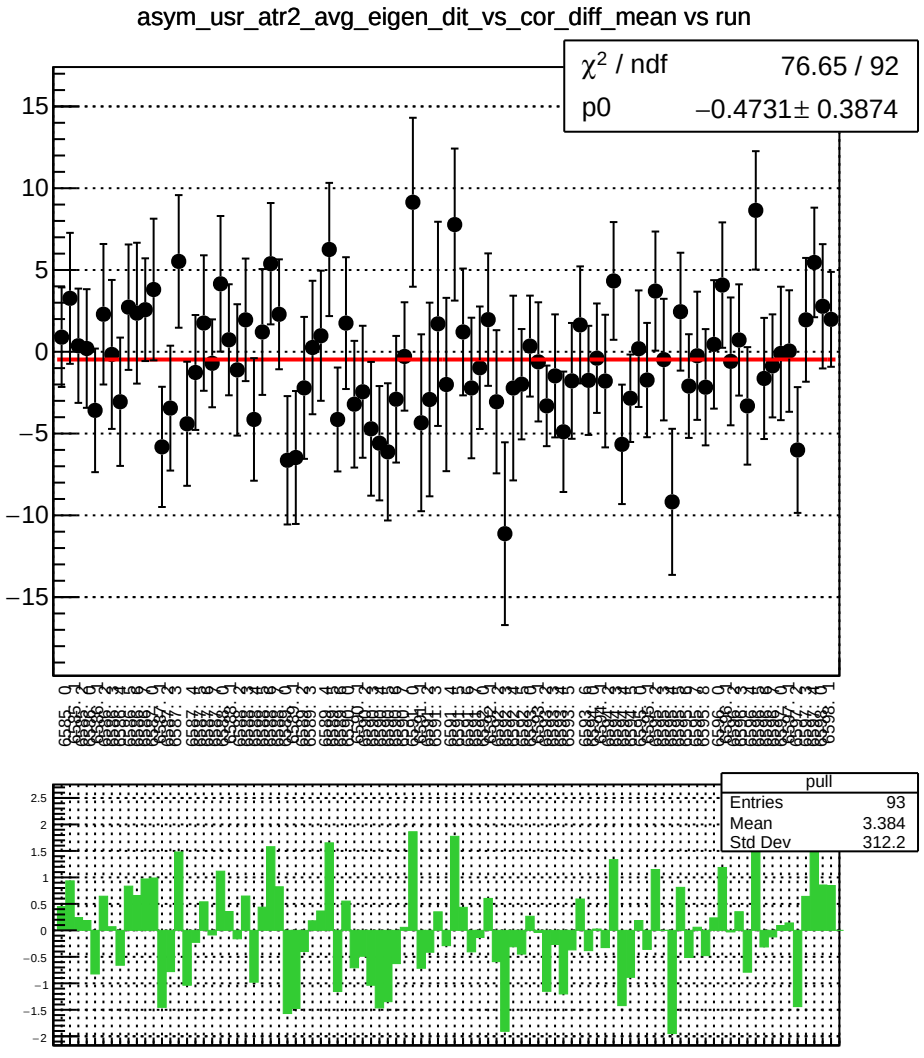

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.65 / 92
p0 −0.4731± 0.3874
pull
Entries 93
Mean 3.364
Std Dev 312.2

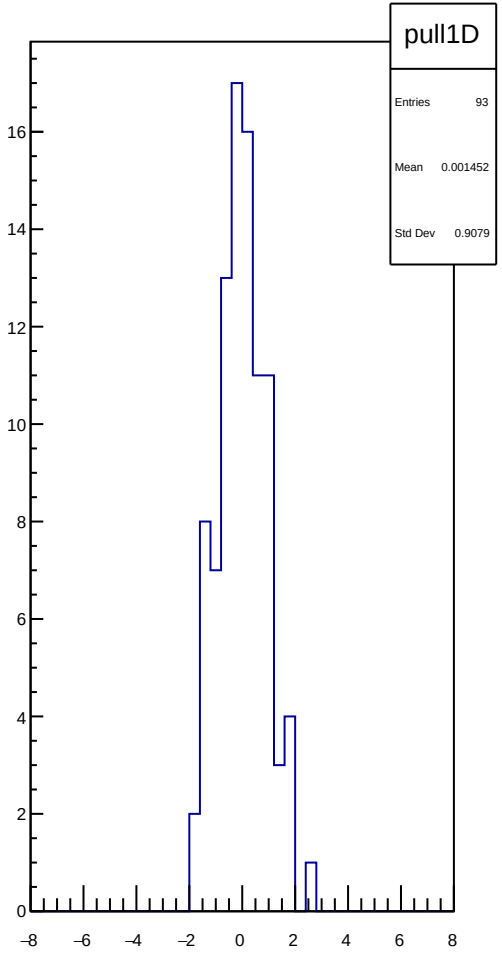

pull1D
Entries 93
Mean 0.001453
Std Dev 0.9079

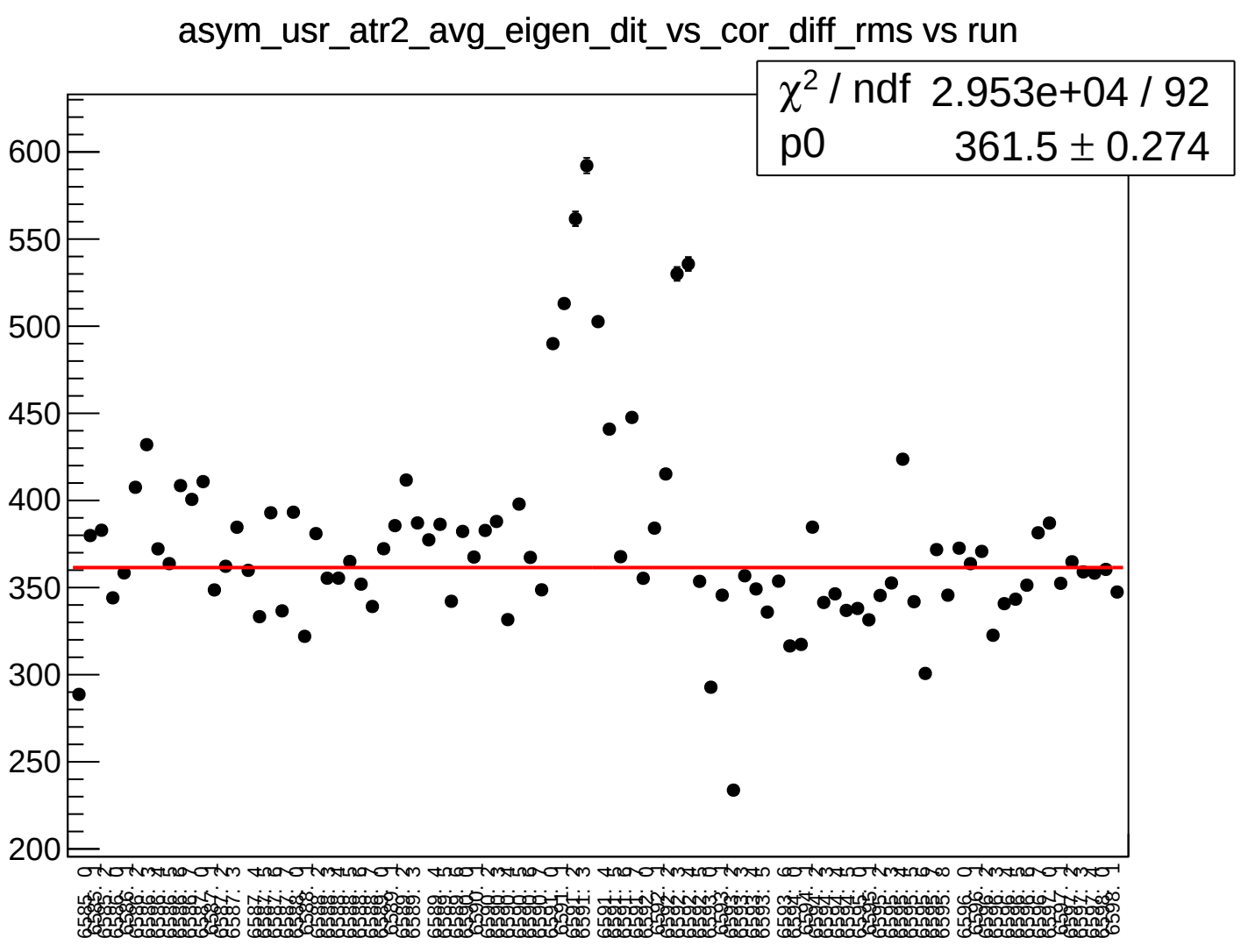

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.953e+04 / 92
p0 361.5 ± 0.274
600
550
500
450
400
350
300
250
200

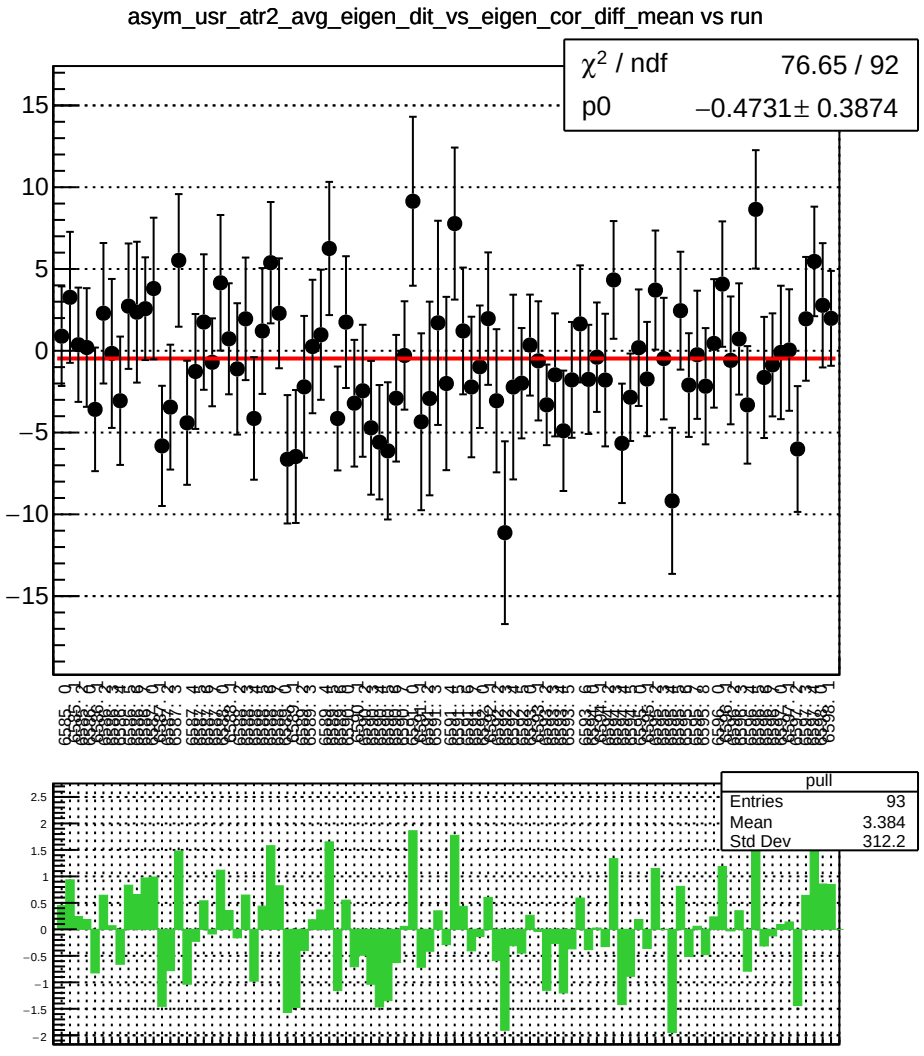

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.8 / 92
p0 4.436e−06 ± 5.047e−06
pull
Entries 93
Mean 662
Std Dev 0
pull1D
Entries 93
Mean 0.00333
Std Dev 1.101

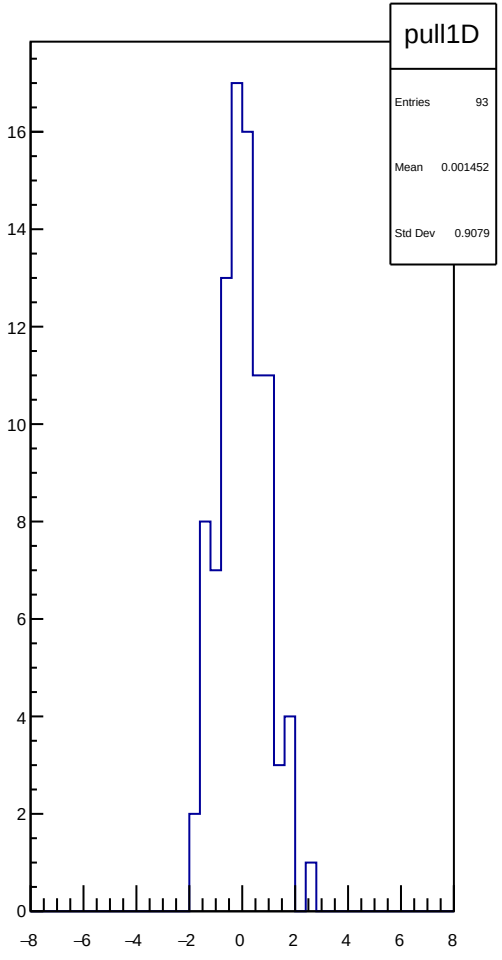

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5342 / 92
p0 0.004742 ± 3.569e−06
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

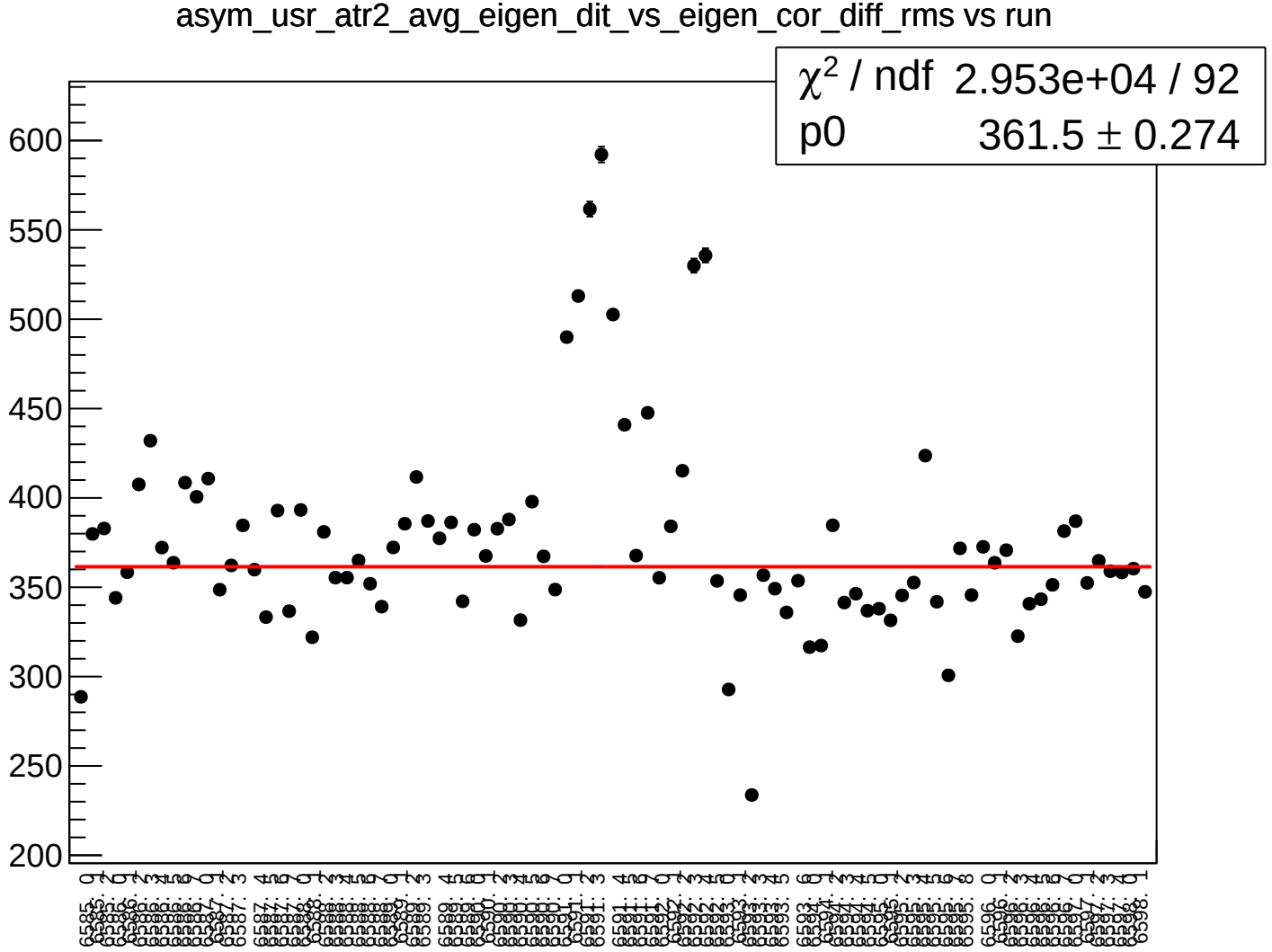

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.65 / 92
p0 −0.4731± 0.3874
pull
Entries 93
Mean 3.384
Std Dev 312.2

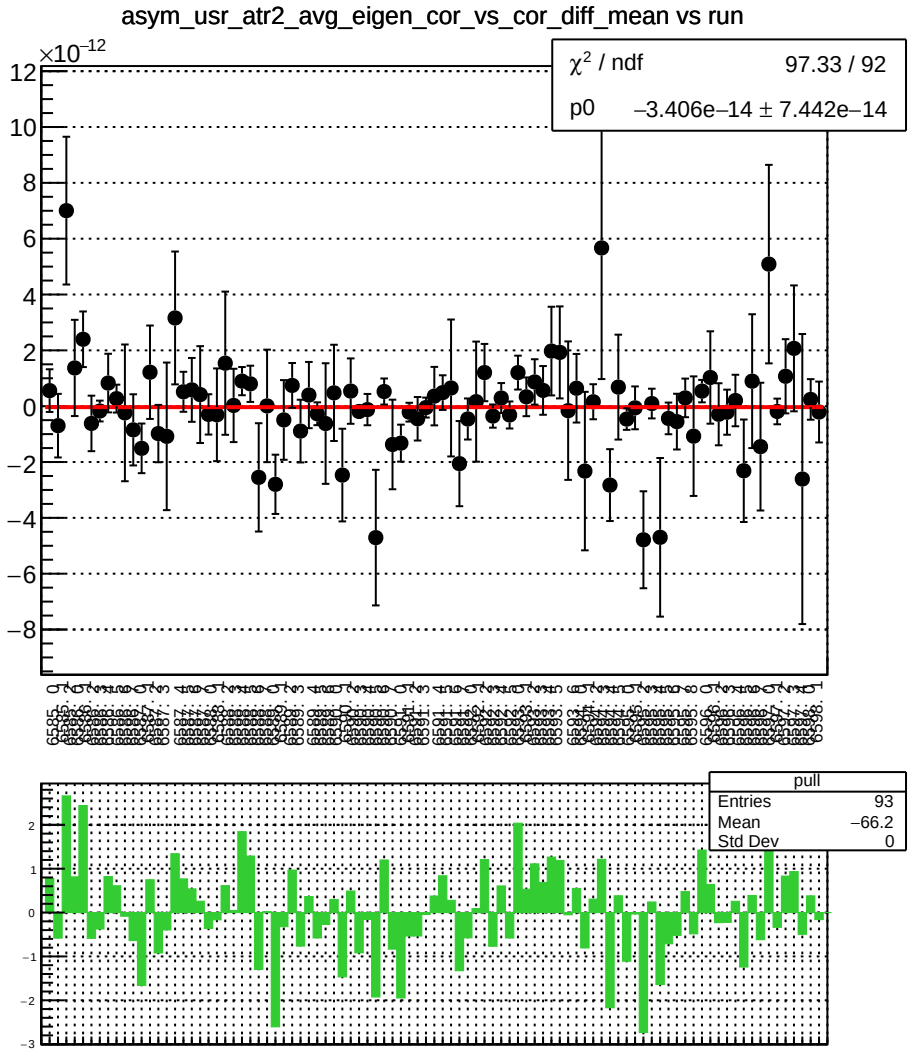

pull1D
Entries 93
Mean 0.001452
Std Dev 0.9079

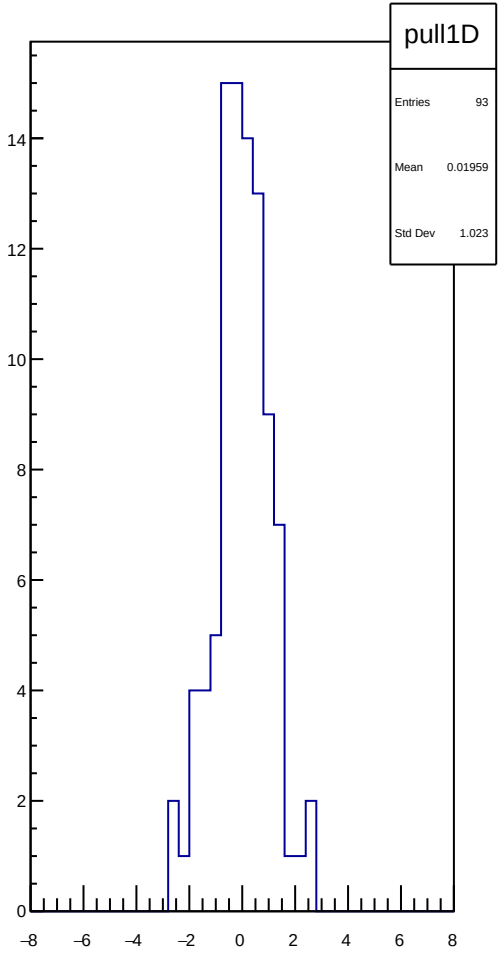

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.953e+04 / 92
p0 361.5 ± 0.274
600
550
500
450
400
350
300
250
200

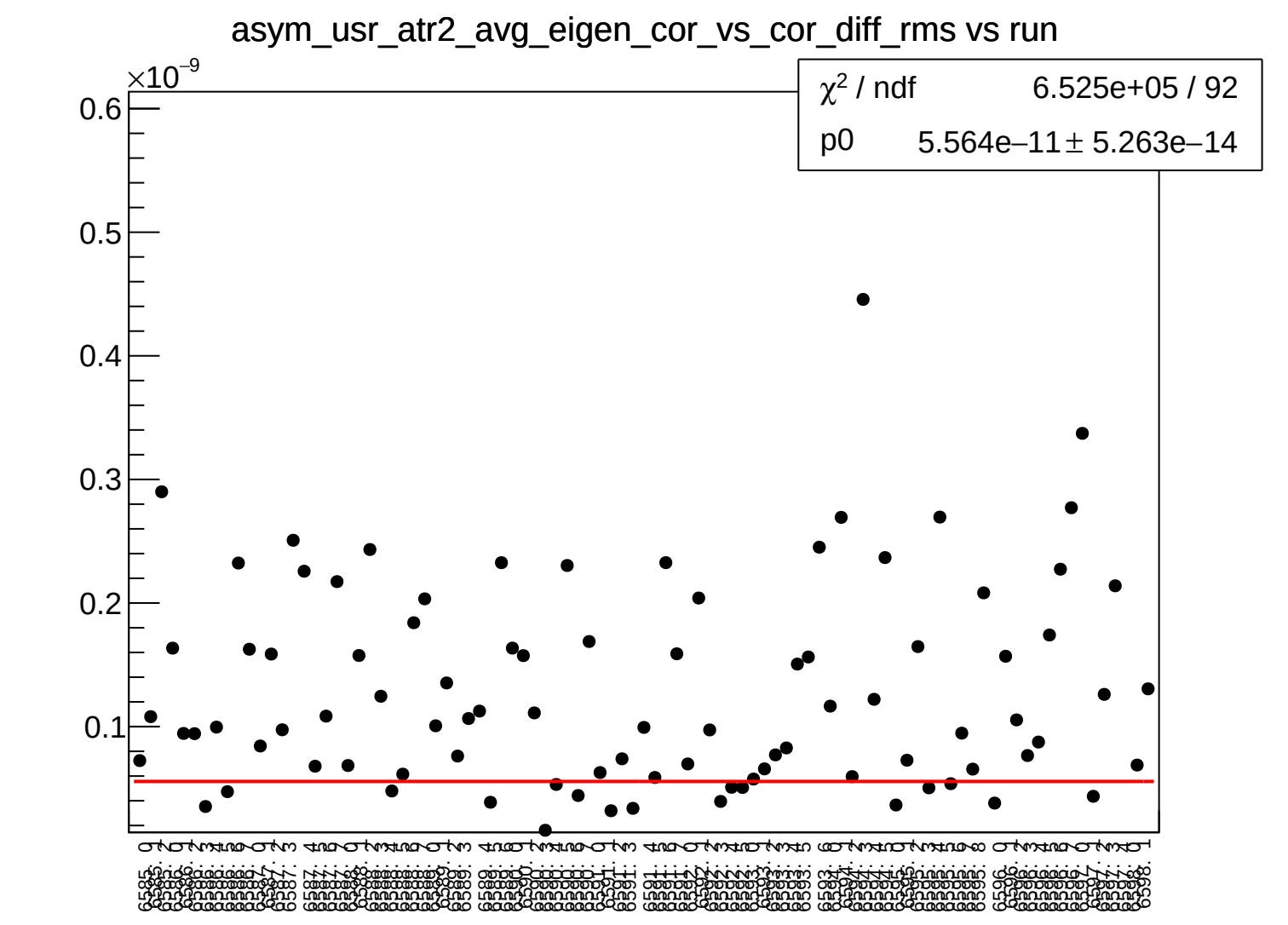

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.65 / 92
p0 −0.4731± 0.3874
pull
Entries 93
Mean 3.384
Std Dev 312.2

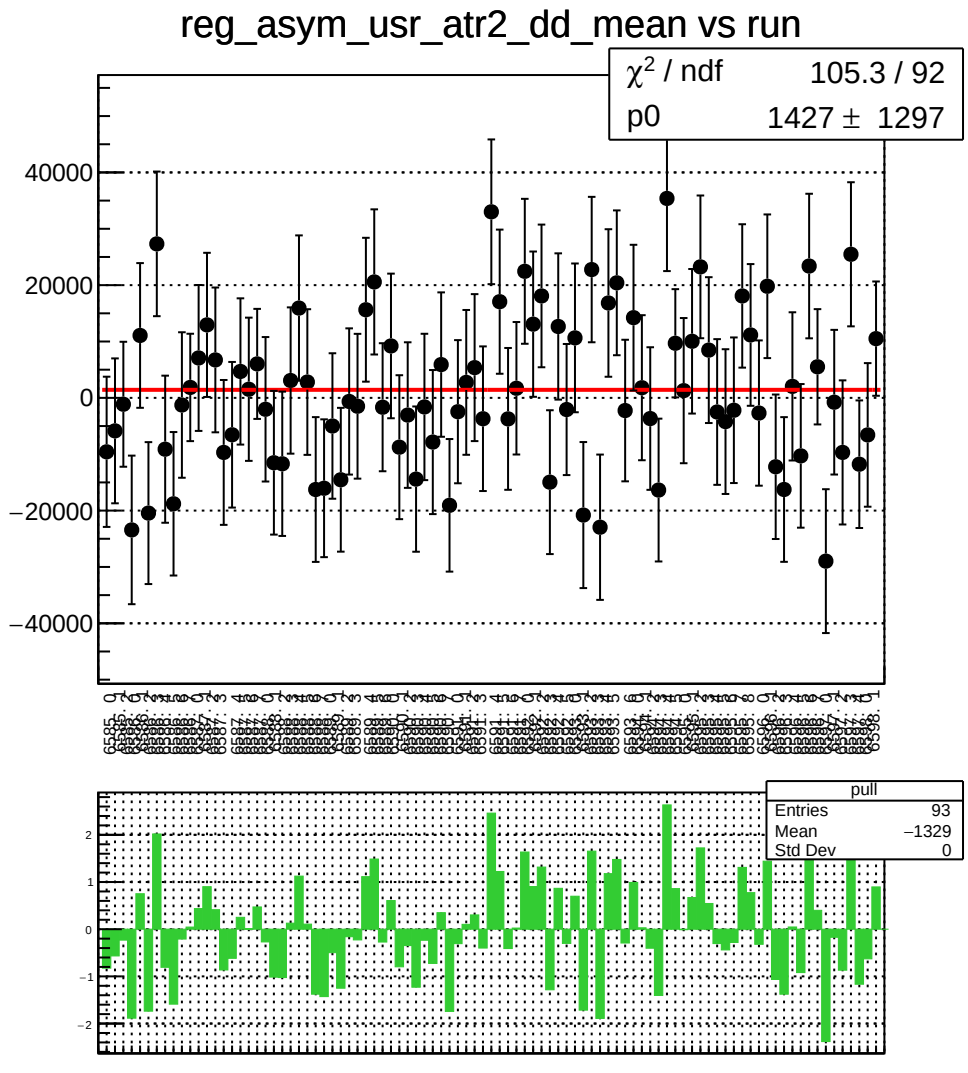

pull1D
Entries 93
Mean 0.001452
Std Dev 0.9079

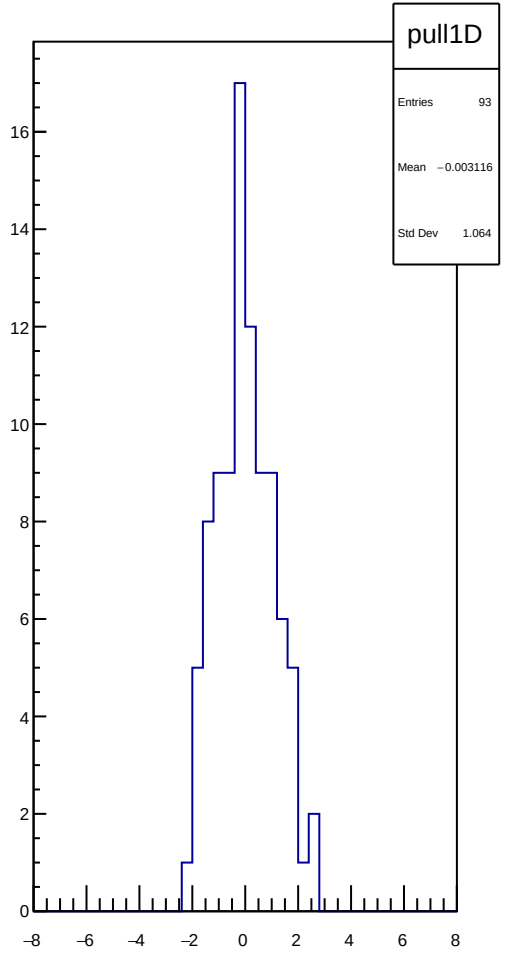

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.953e+04 / 92
p0 361.5 ± 0.274
600
550
500
450
400
350
300
250
200

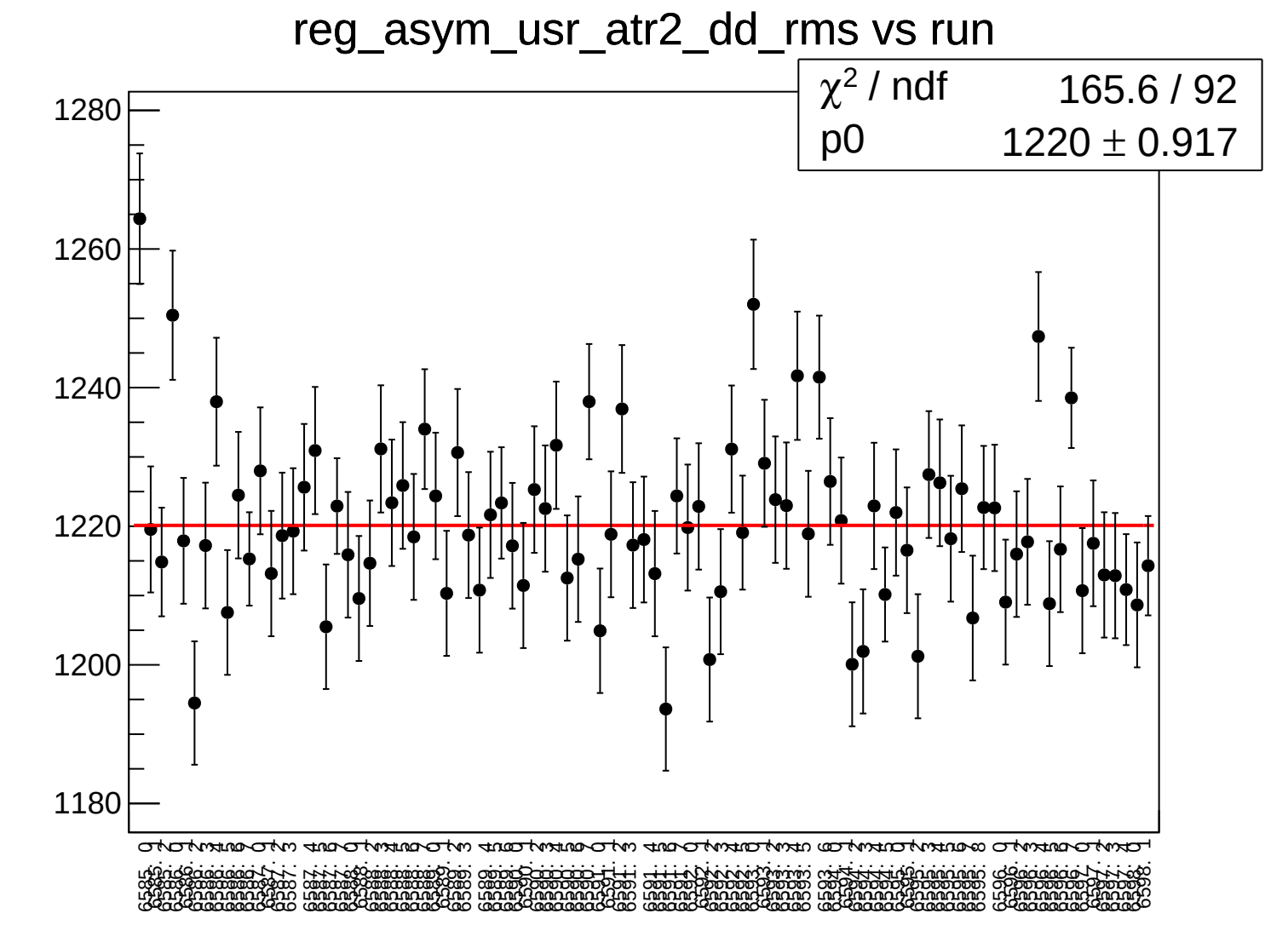

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.33 / 92
p0 −3.406e−14 ± 7.442e−14
pull
Entries 93
Mean −66.2
Std Dev 0

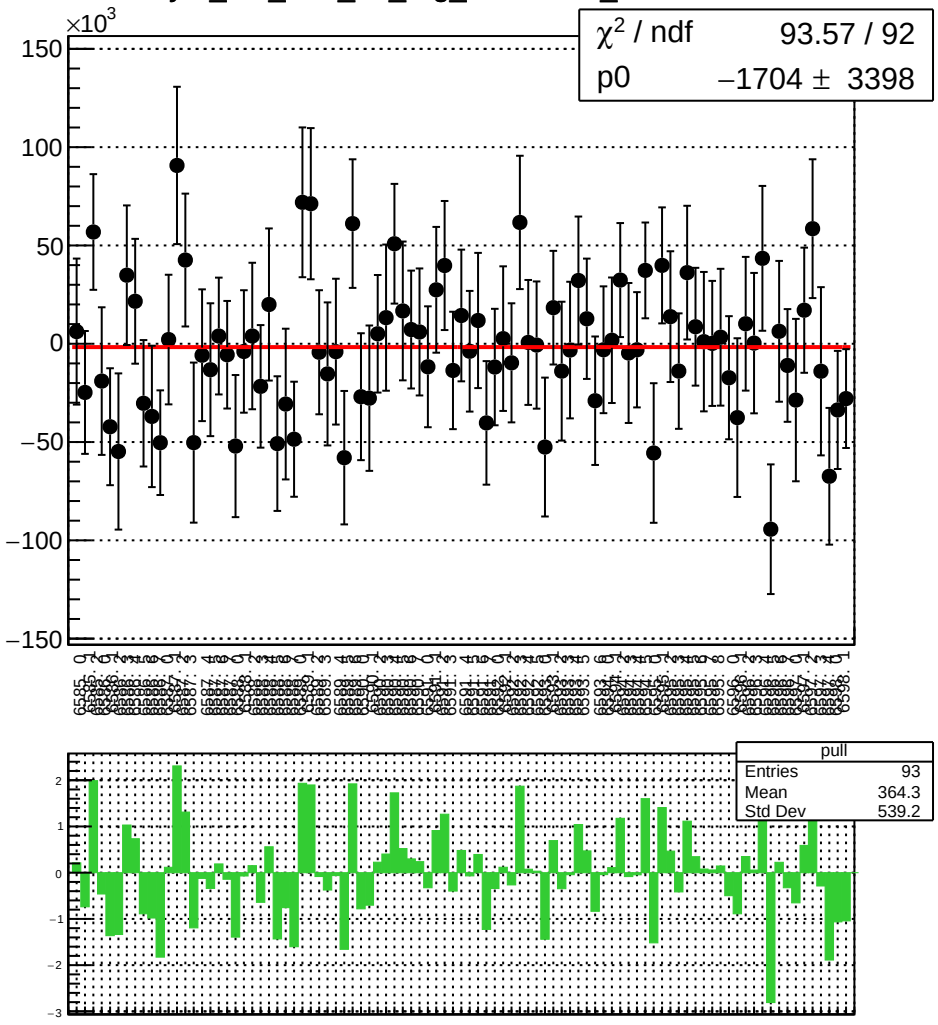

pull1D
Entries 93
Mean 0.01959
Std Dev 1.023

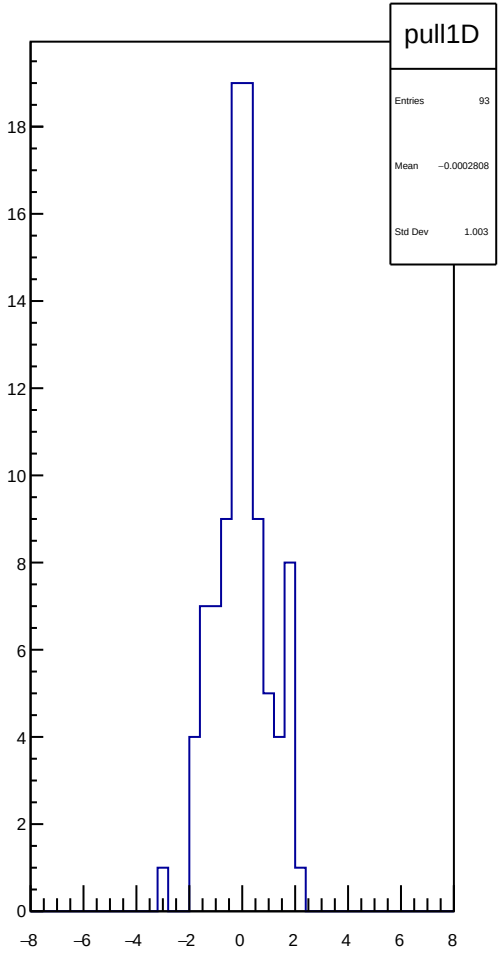

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.525e+05 / 92
p0 5.564e−11 ± 5.263e−14
0.6
0.5
0.4
0.3
0.2
0.1

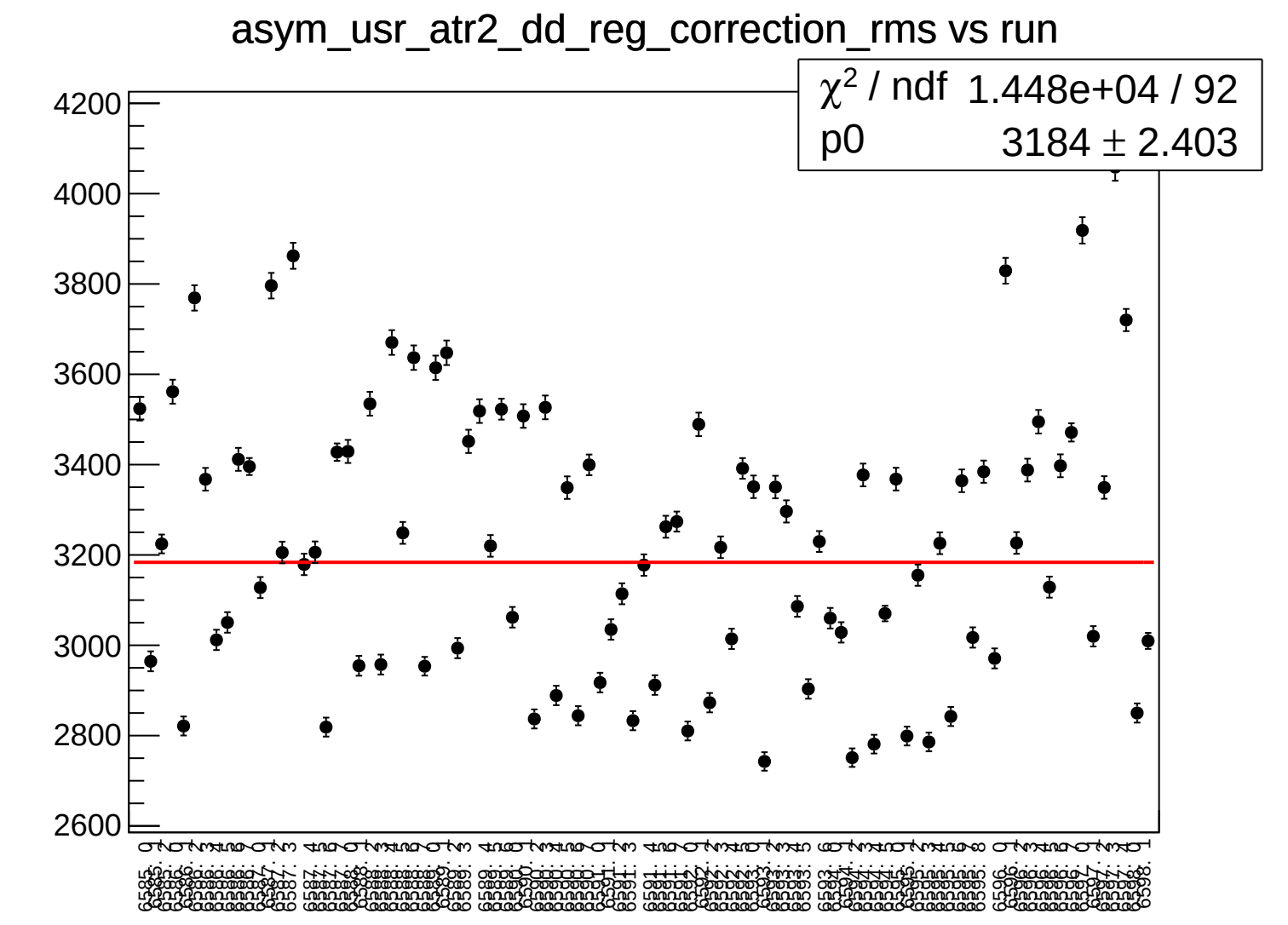

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 105.3 / 92
p0 1427 ± 1297
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −1329
Std Dev 0
2
1
0
−1
−2

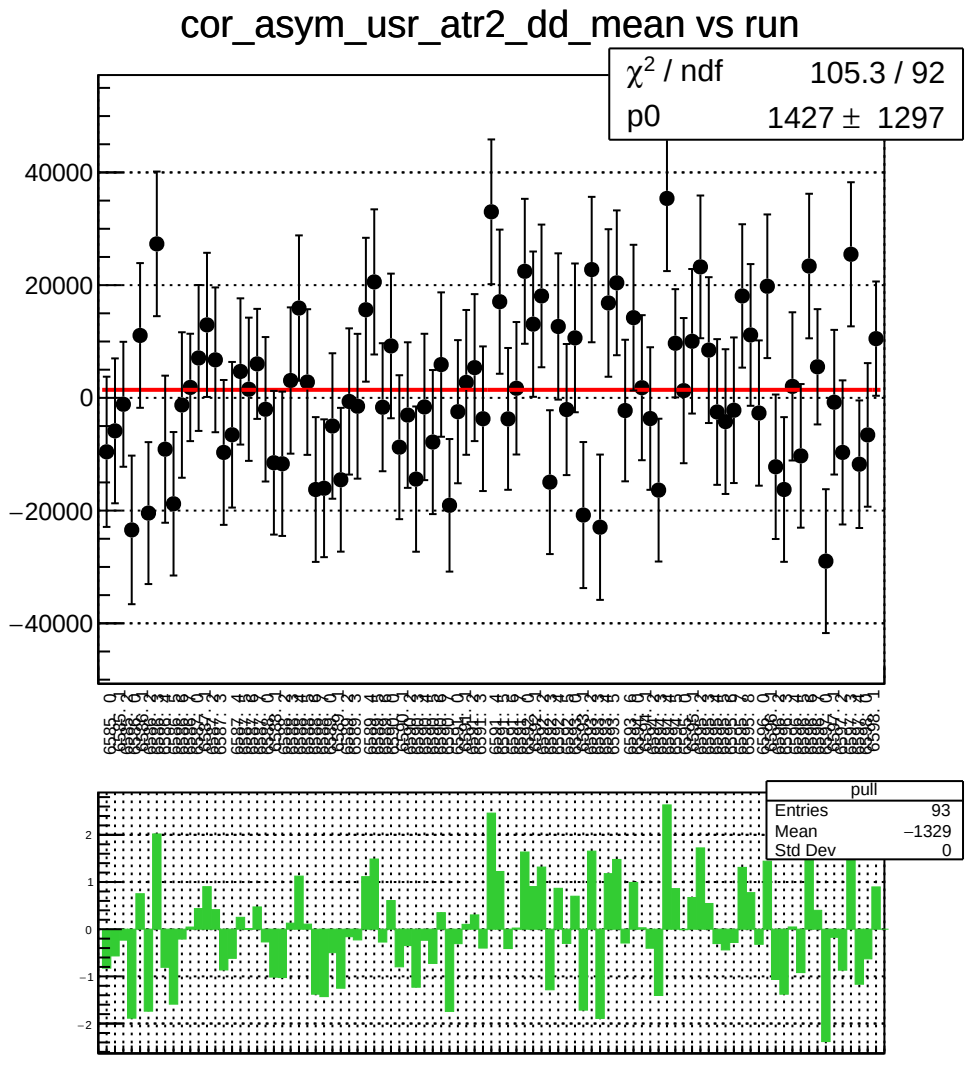

pull1D
Entries 93
Mean −0.003116
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

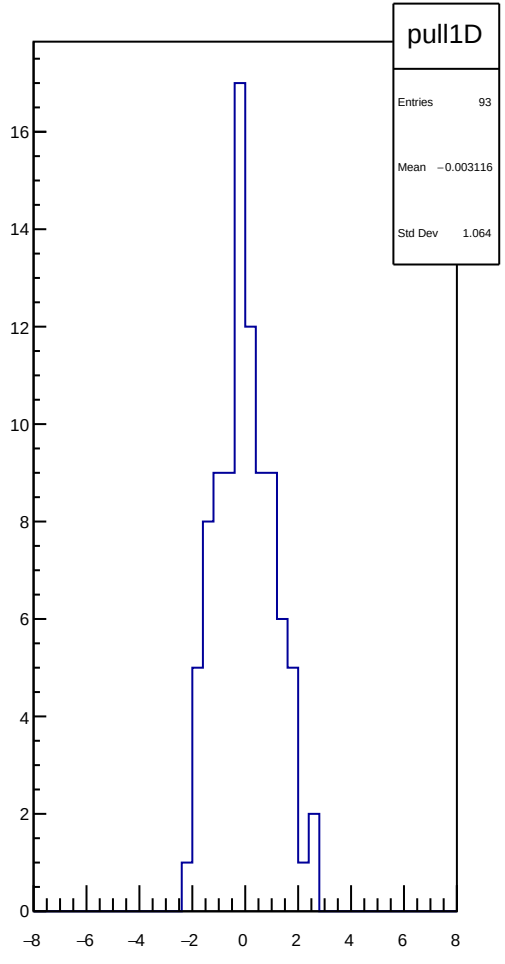

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 165.6 / 92
p0 1220 ± 0.917
1280
1260
1240
1220
1200
1180

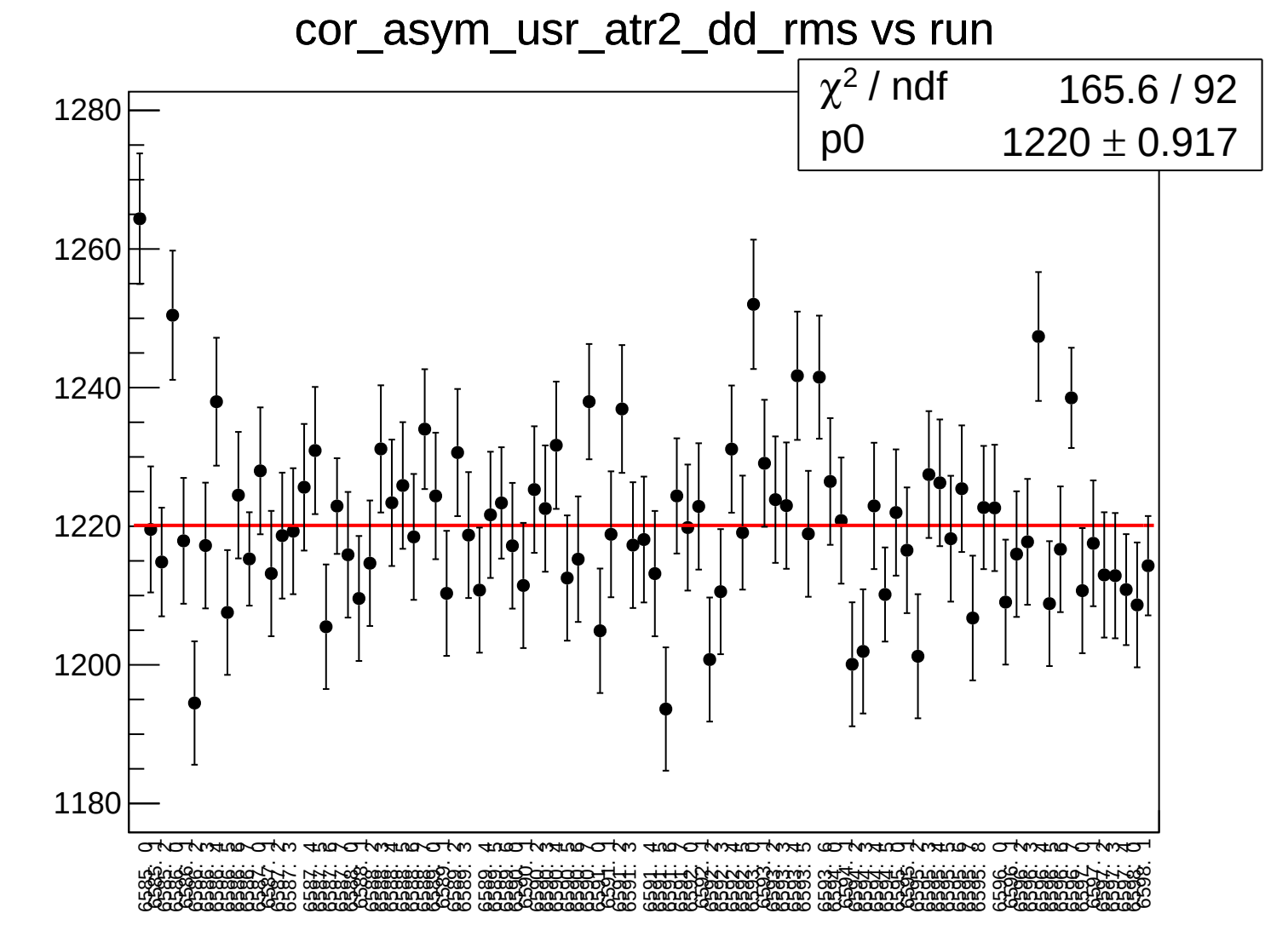

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 93.57 / 92
p0 −1704 ± 3398
pull
Entries 93
Mean 364.3
Std Dev 539.2

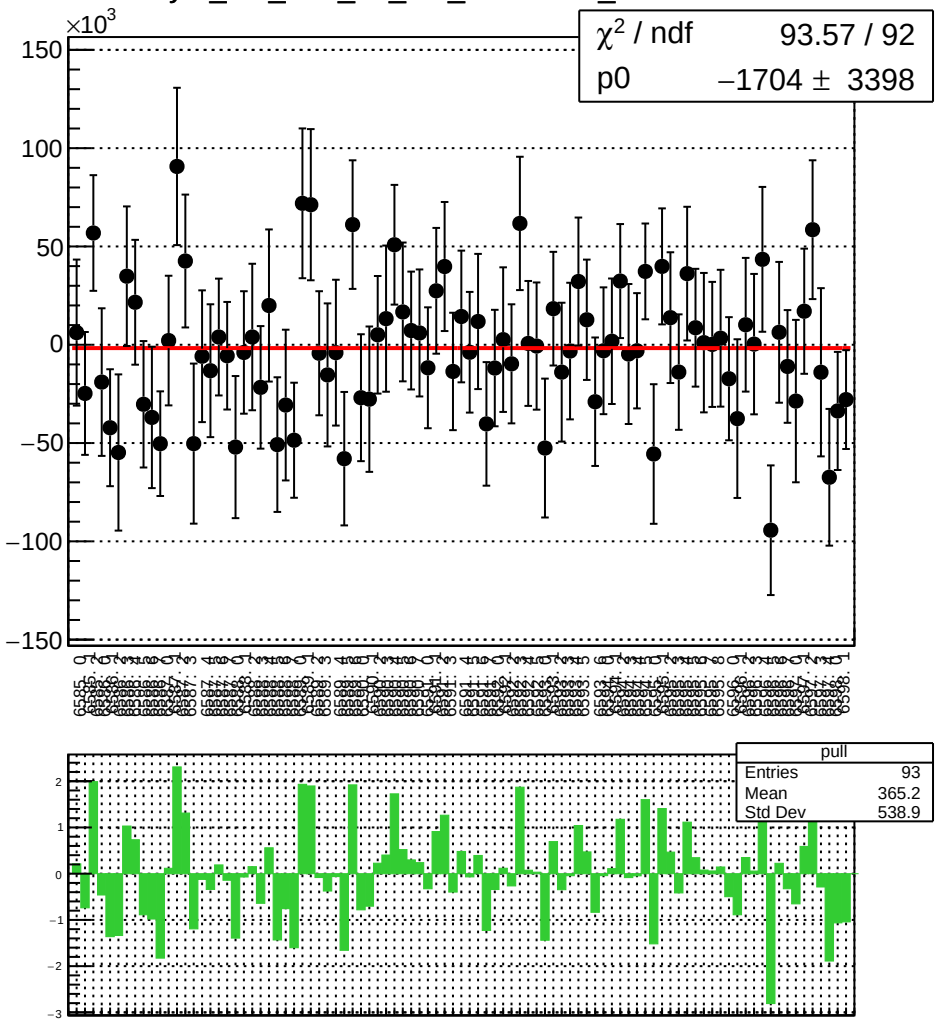

pull1D
Entries 93
Mean −0.0002808
Std Dev 1.003

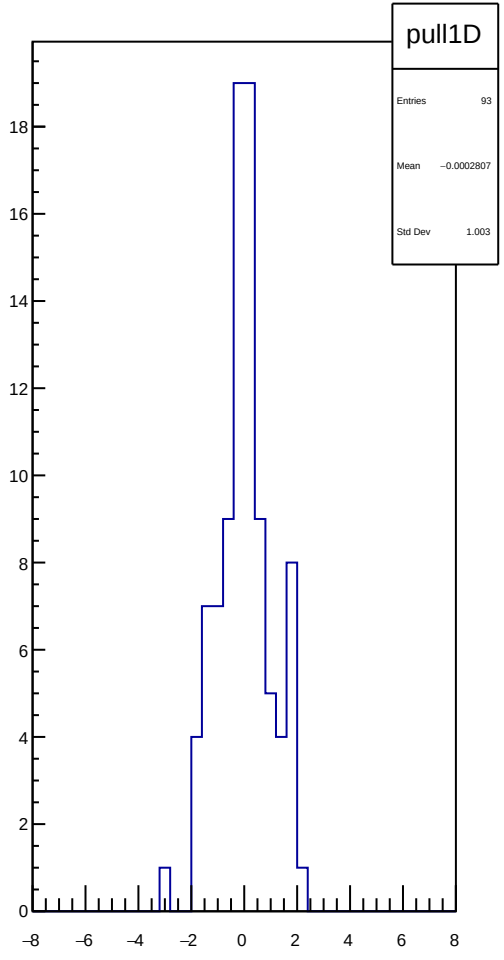

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.448e+04 / 92
p0 3184 ± 2.403
4200
4000
3800
3600
3400
3200
3000
2800
2600

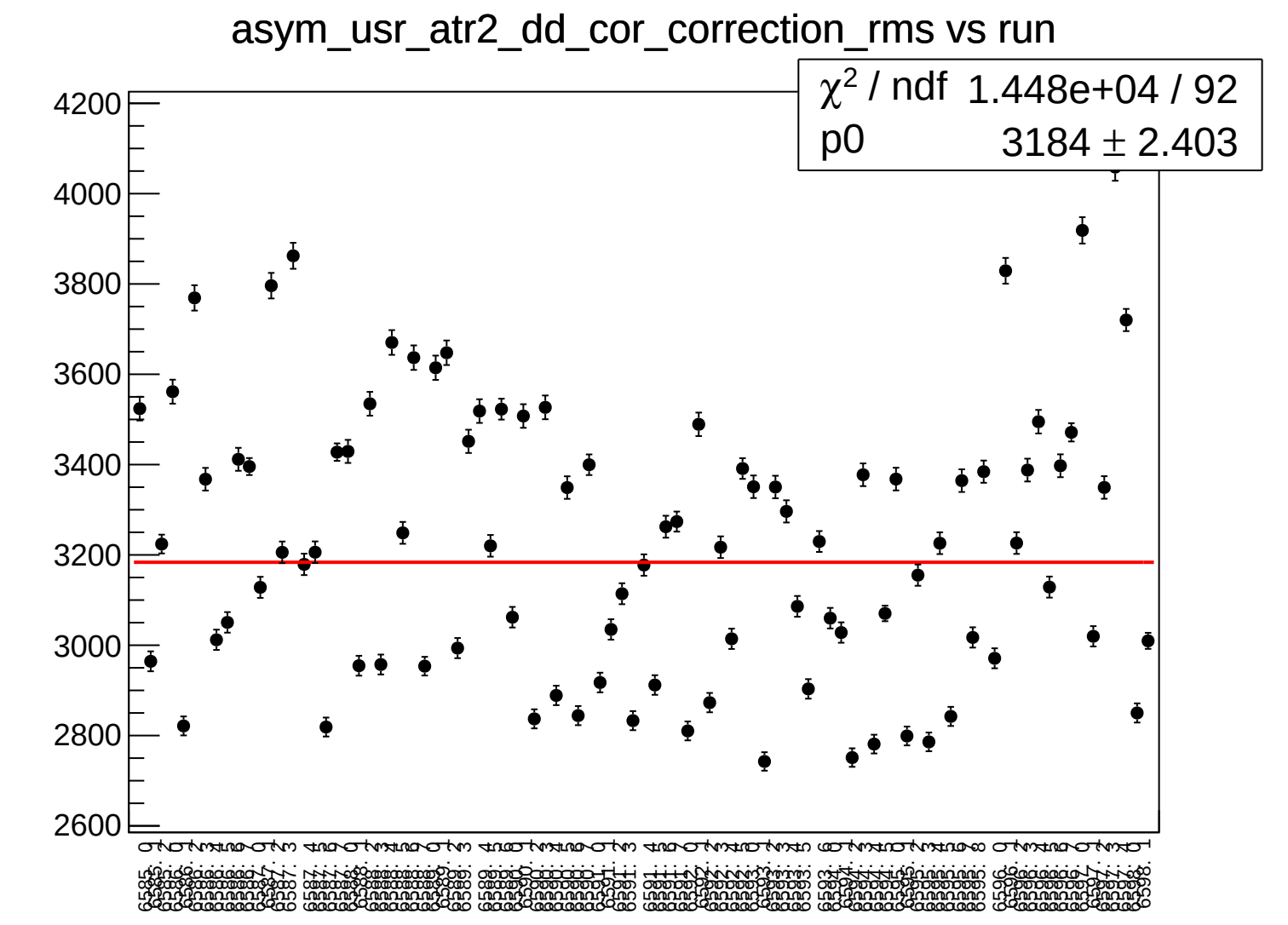

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 105.3 / 92
p0 1427 ± 1297
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −1329
Std Dev 0
2
1
0
−1
−2

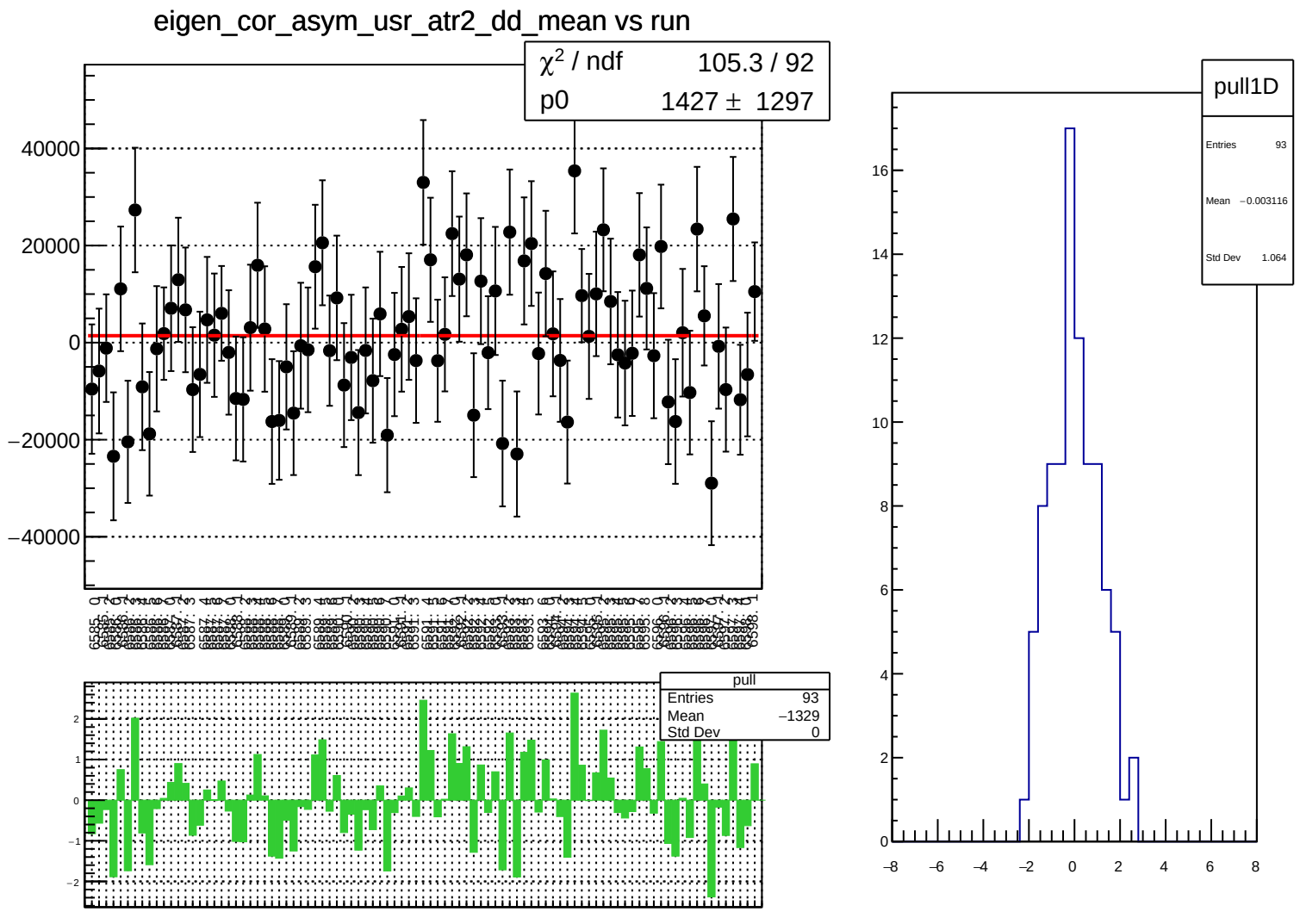

pull1D
Entries 93
Mean −0.003116
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

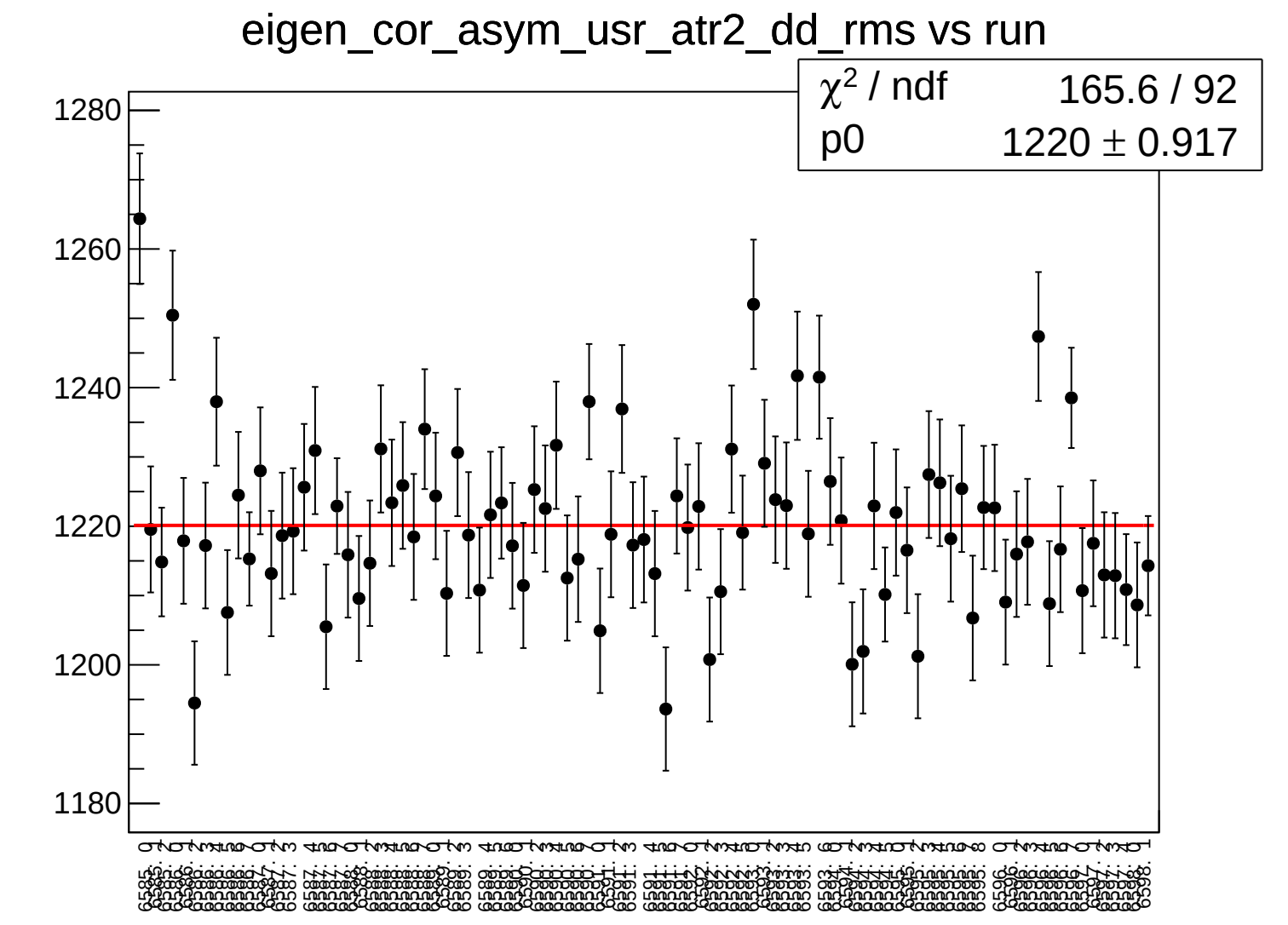

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 165.6 / 92
p0 1220 ± 0.917
1280
1260
1240
1220
1200
1180

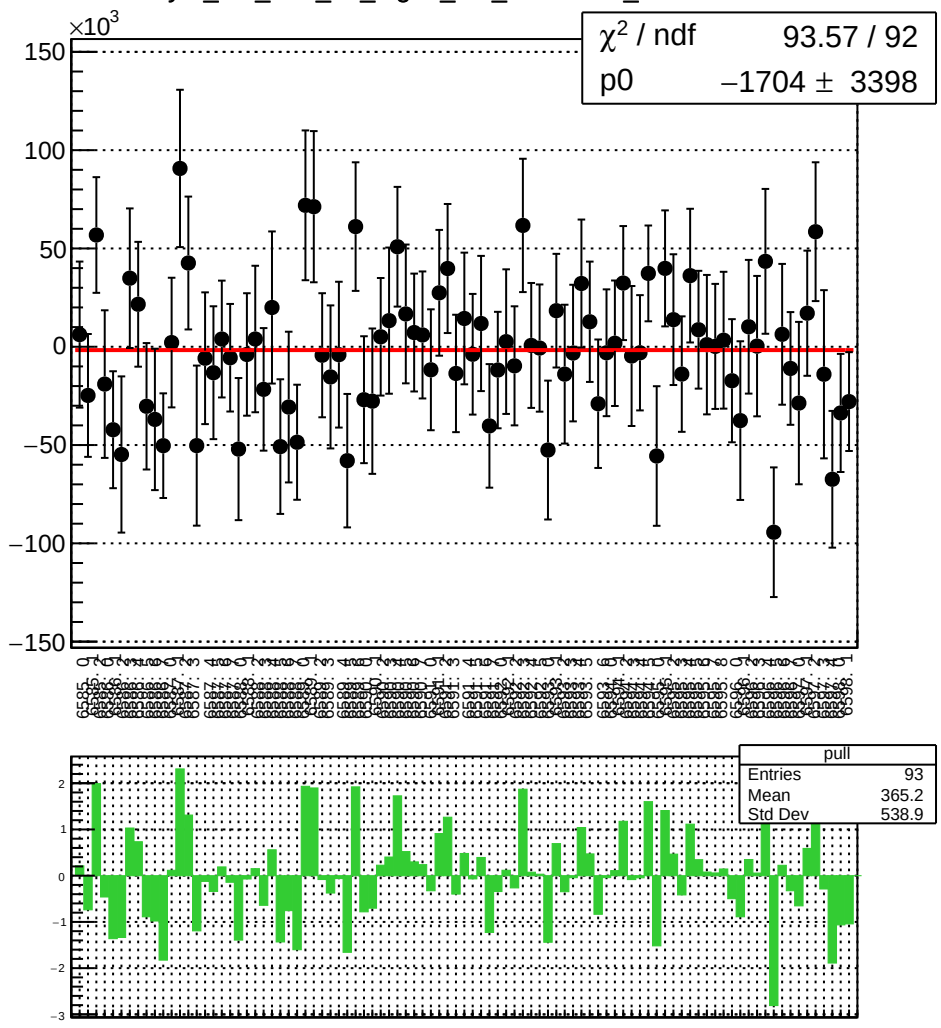

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 93.57 / 92
p0 −1704 ± 3398
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 365.2
Std Dev 538.9
2
1
0
−1
−2
−3

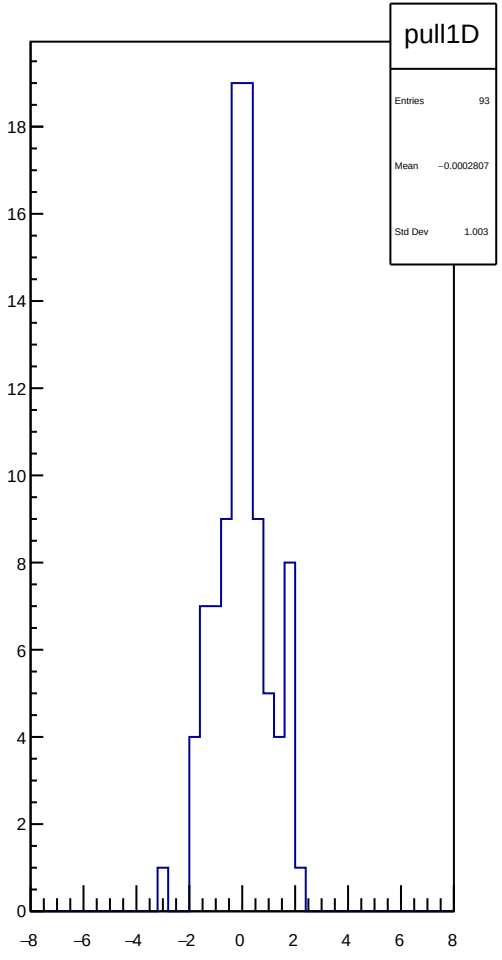

pull1D
Entries 93
Mean −0.0002807
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

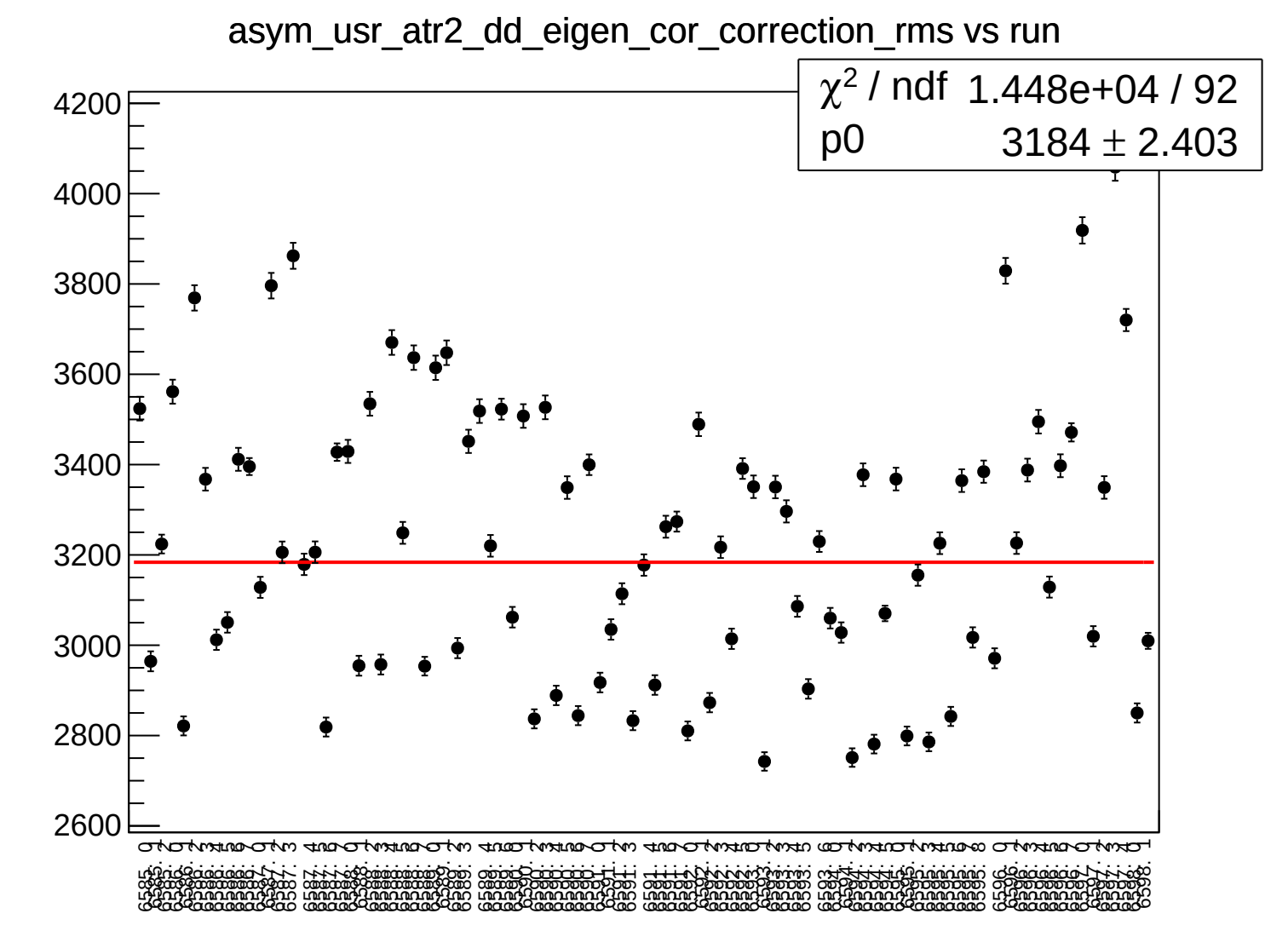

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.448e+04 / 92
p0 3184 ± 2.403
4200
4000
3800
3600
3400
3200
3000
2800
2600

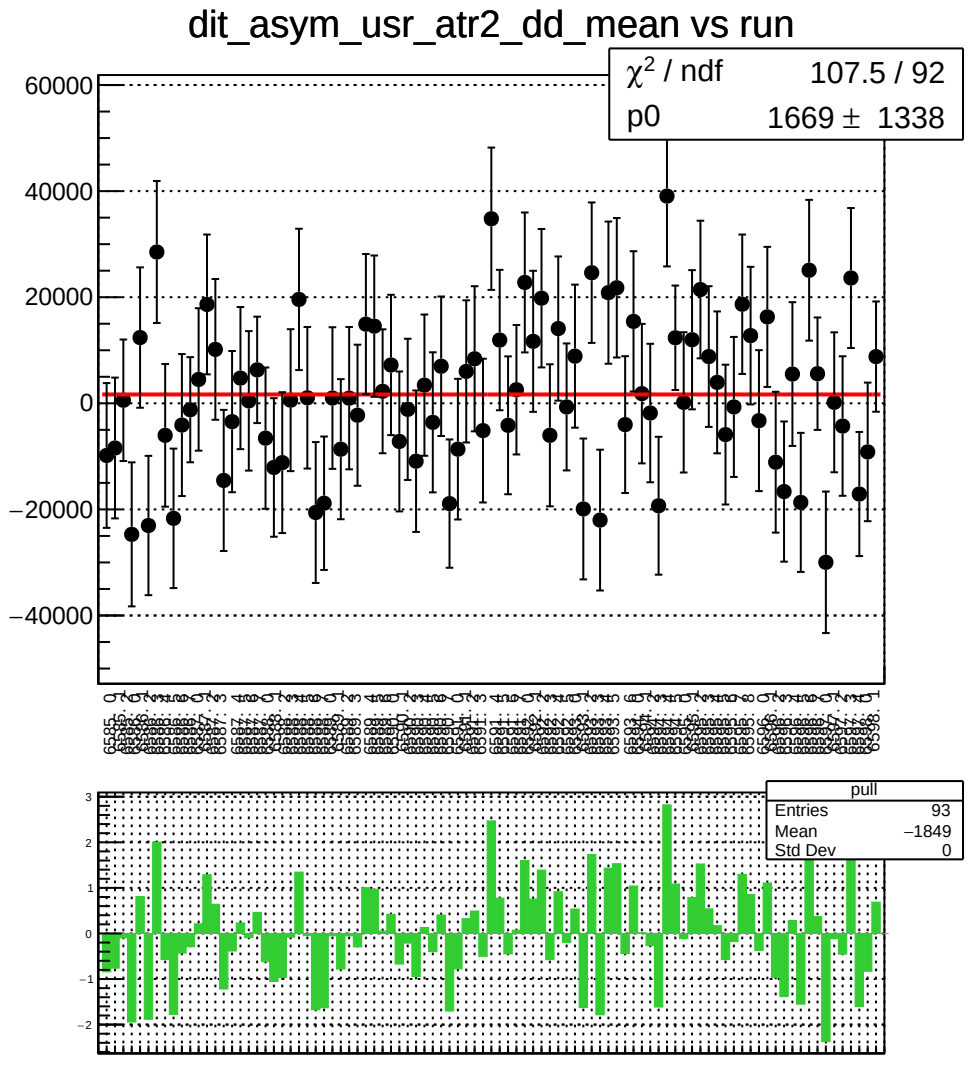

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 105.3 / 92
p0 1427 ± 1297
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −1329
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003116
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

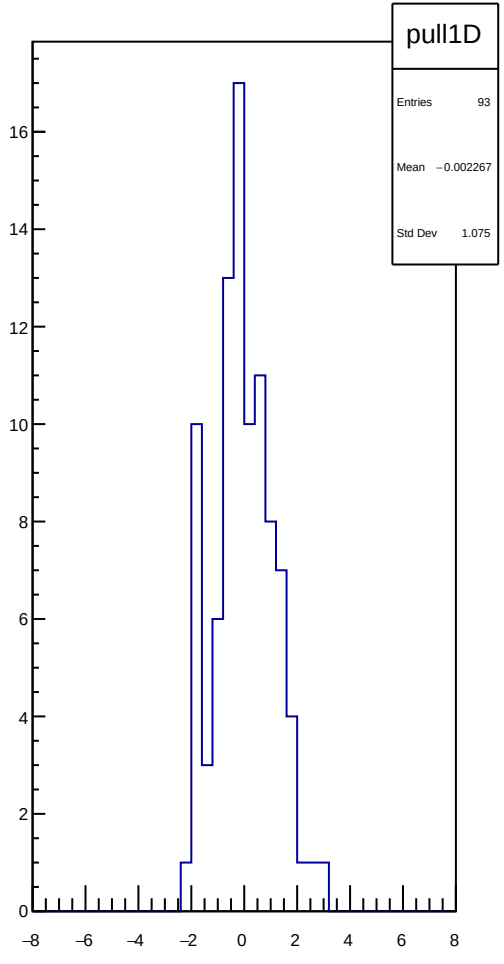

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 165.6 / 92
p0 1220 ± 0.917
1280
1260
1240
1220
1200
1180

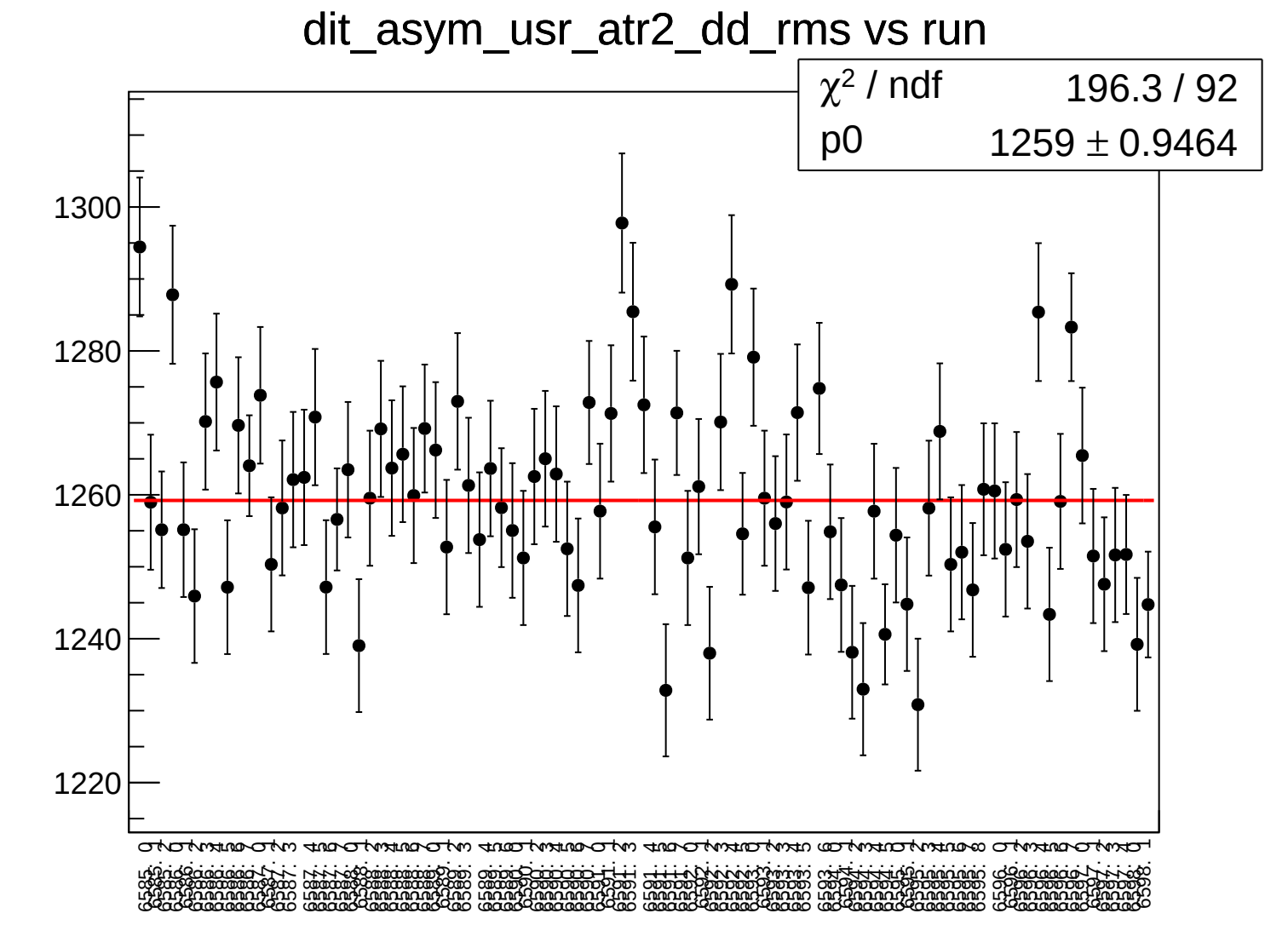

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 93.57 / 92
p0 −1704 ± 3398
pull
Entries 93
Mean 365.2
Std Dev 538.9

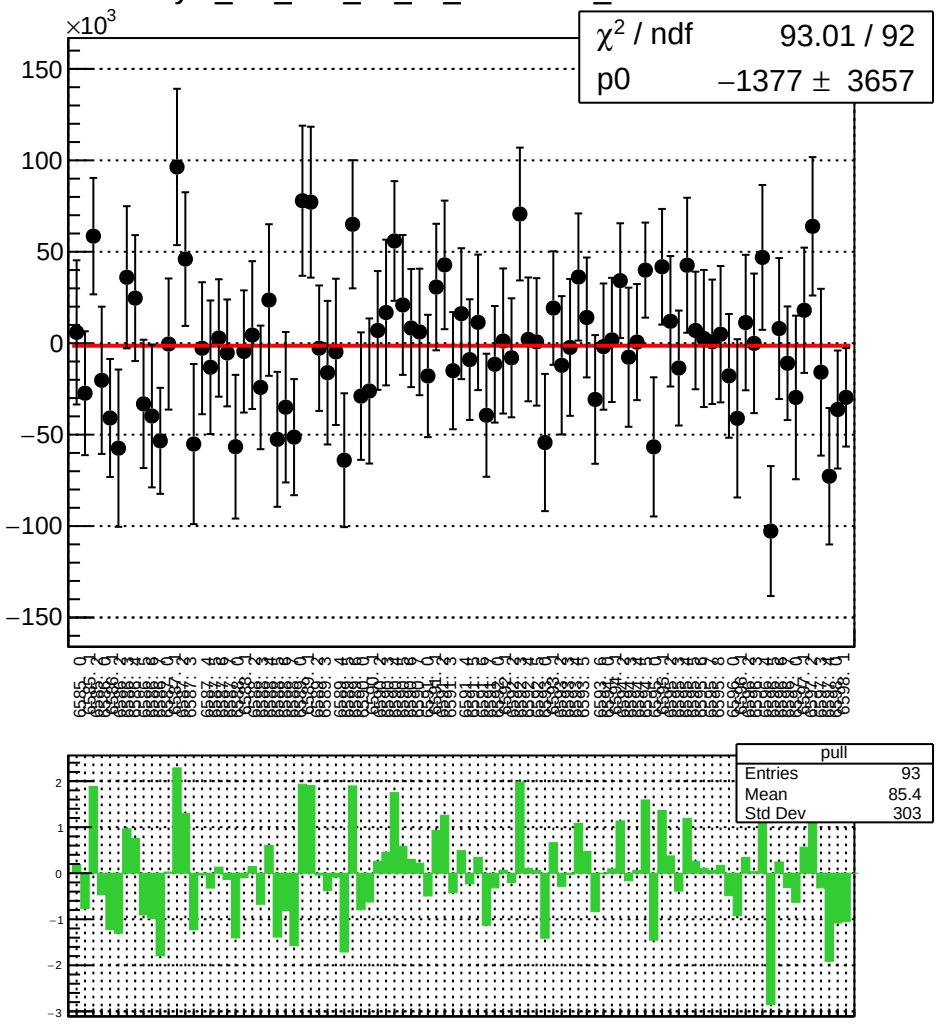

pull1D
Entries 93
Mean −0.0002807
Std Dev 1.003

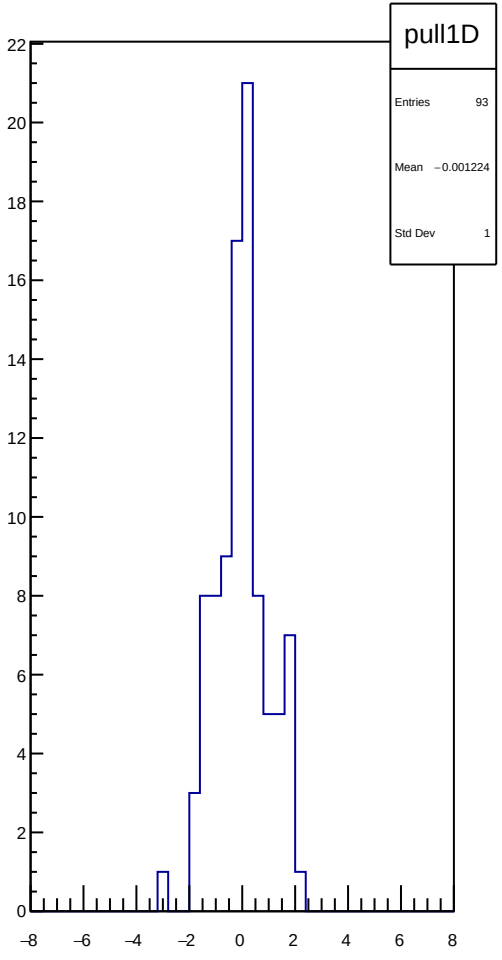

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.448e+04 / 92
p0 3184 ± 2.403
4200
4000
3800
3600
3400
3200
3000
2800
2600

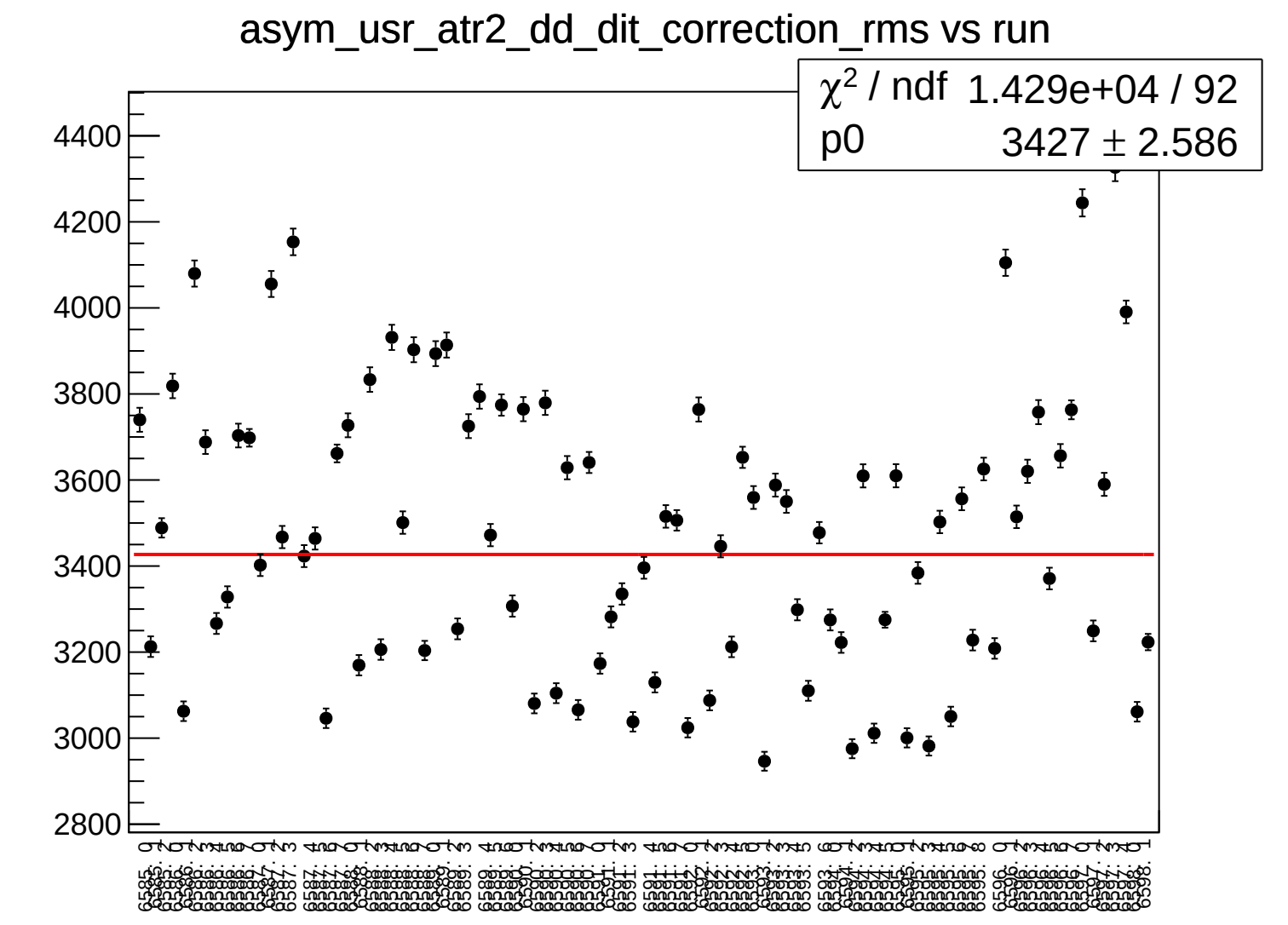

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 107.5 / 92
p0 1669 ± 1338
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −1849
Std Dev 0
3
2
1
0
−1
−2

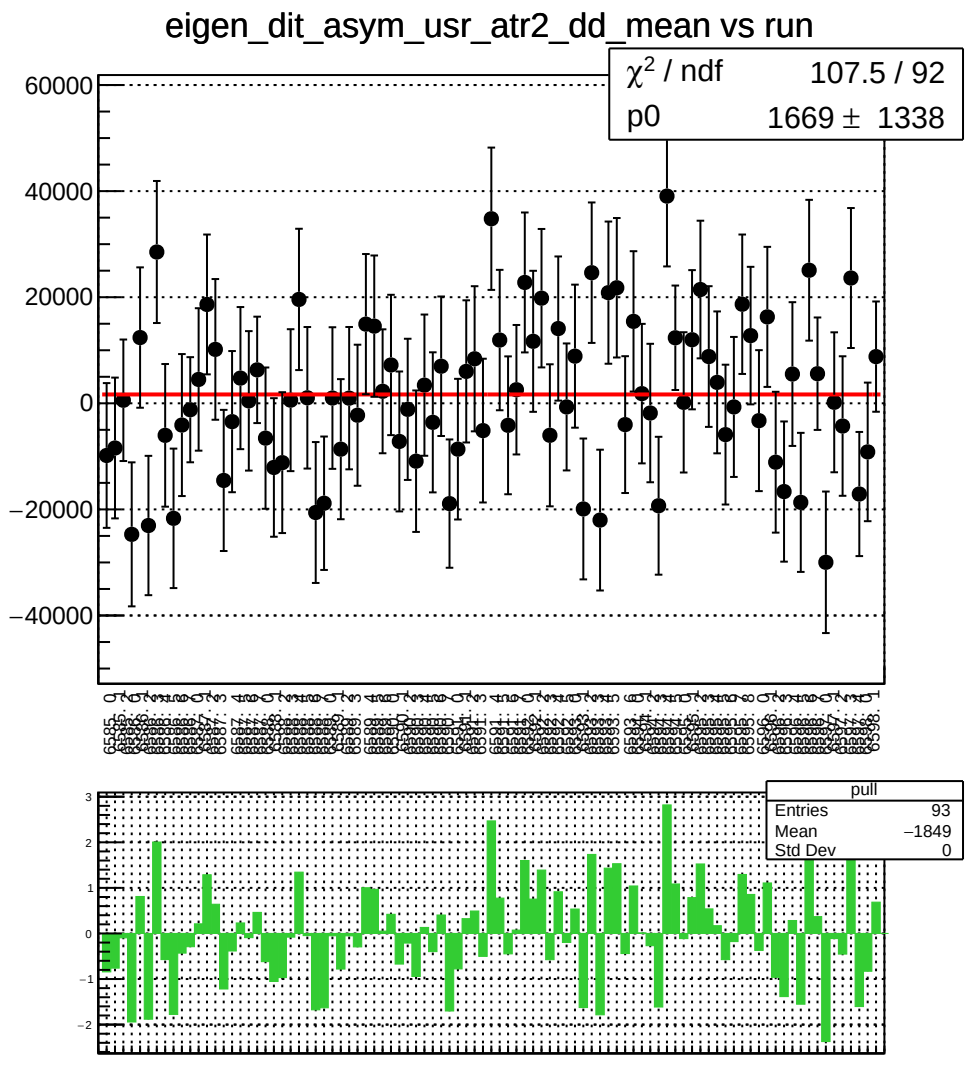

pull1D
Entries 93
Mean −0.002267
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

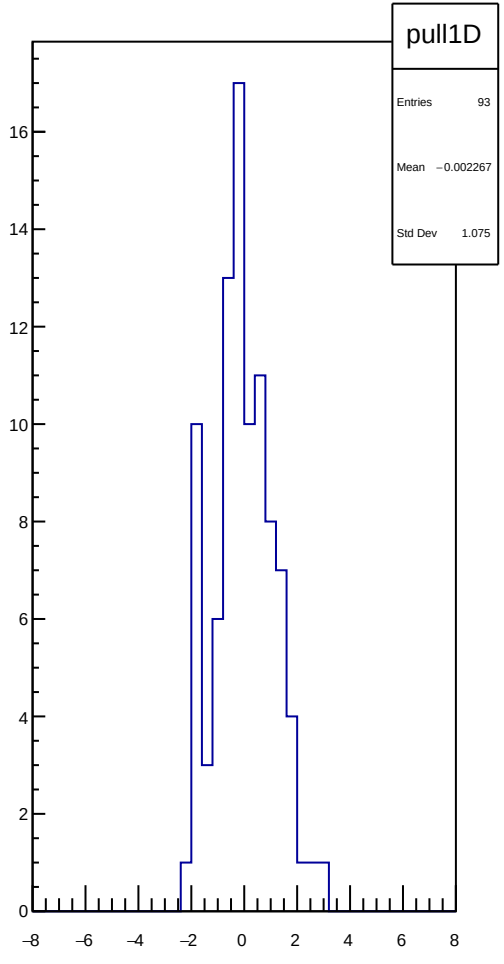

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 196.3 / 92
p0 1259 ± 0.9464
1300
1280
1260
1240
1220

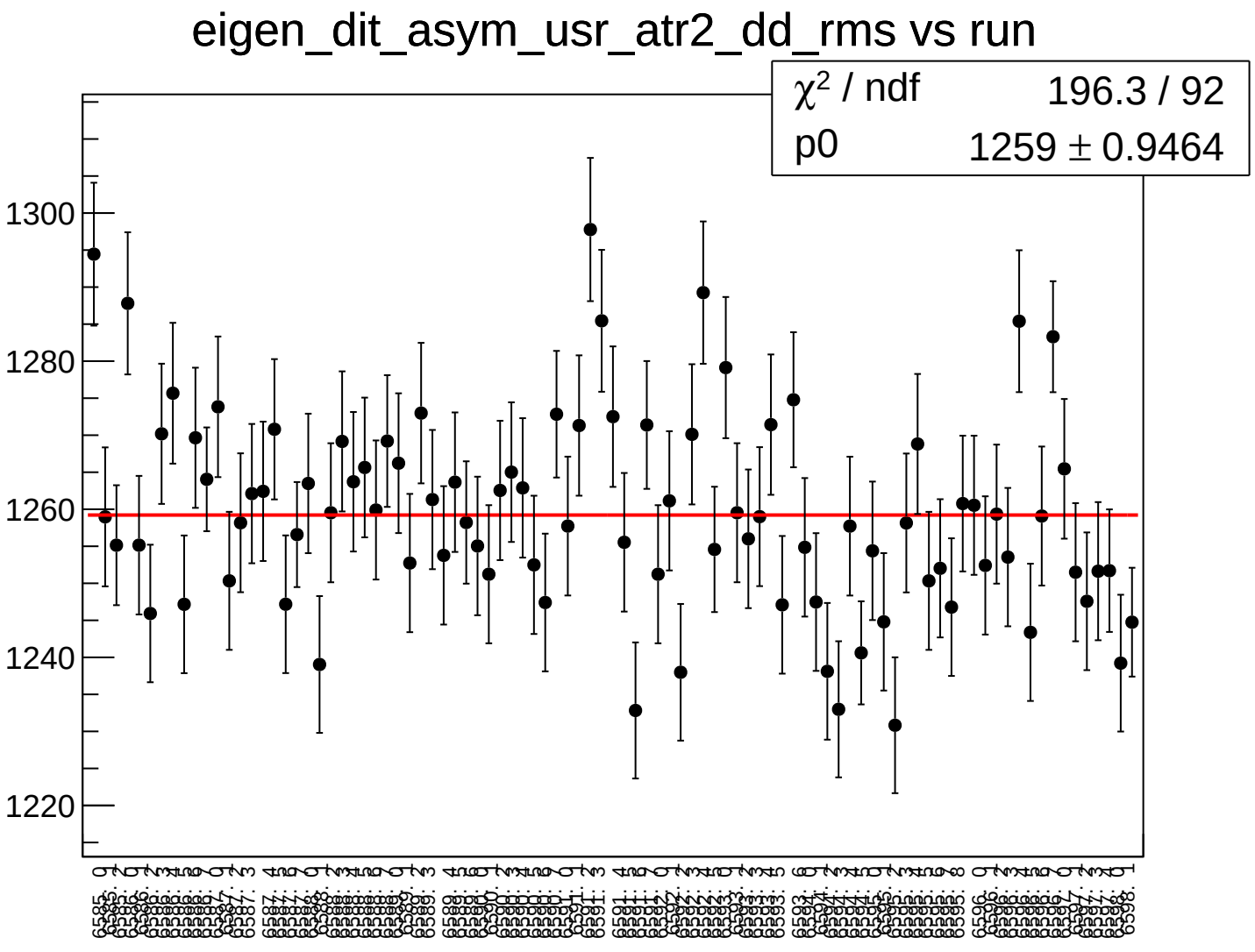

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 93.01 / 92
p0 −1377 ± 3657
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 85.4
Std Dev 303
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.001224
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

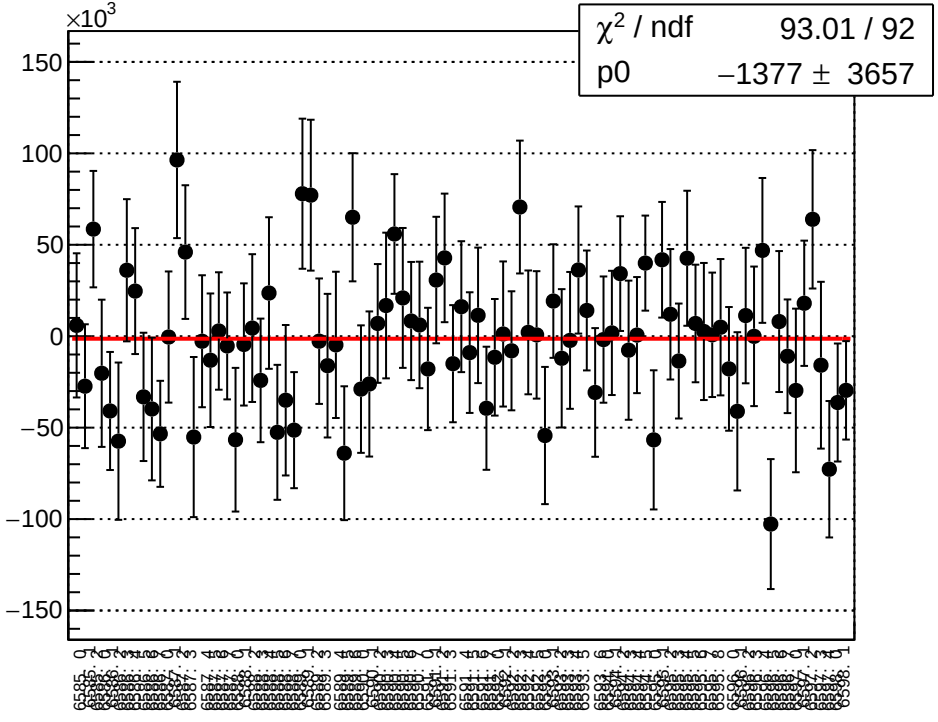

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.429e+04 / 92
p0 3427 ± 2.586
4400
4200
4000
3800
3600
3400
3200
3000
2800

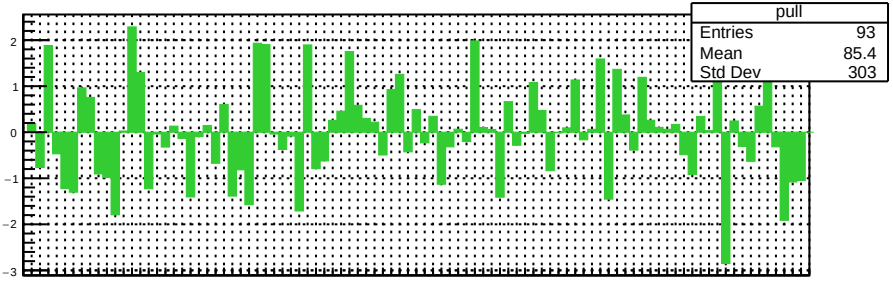

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 107.5 / 92
p0 1669 ± 1338
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −1849
Std Dev 0
3
2
1
0
−1
−2

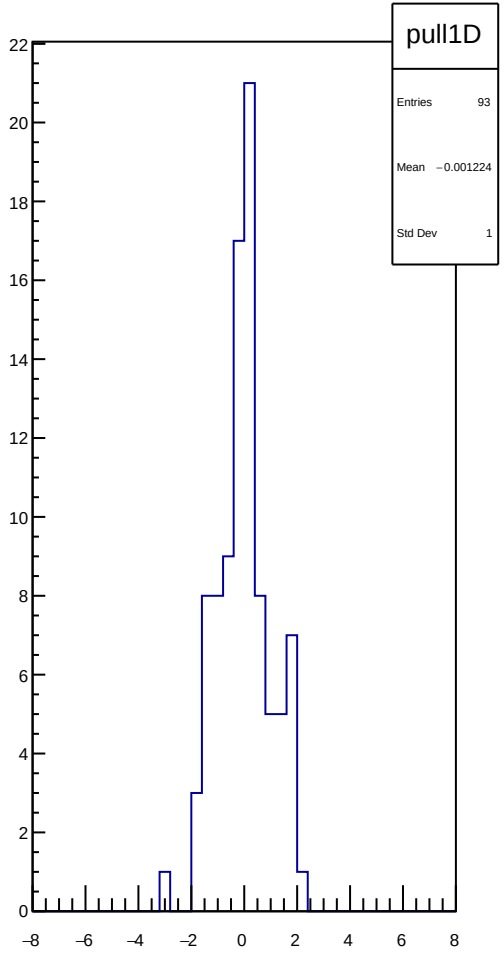

pull1D
Entries 93
Mean −0.002267
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

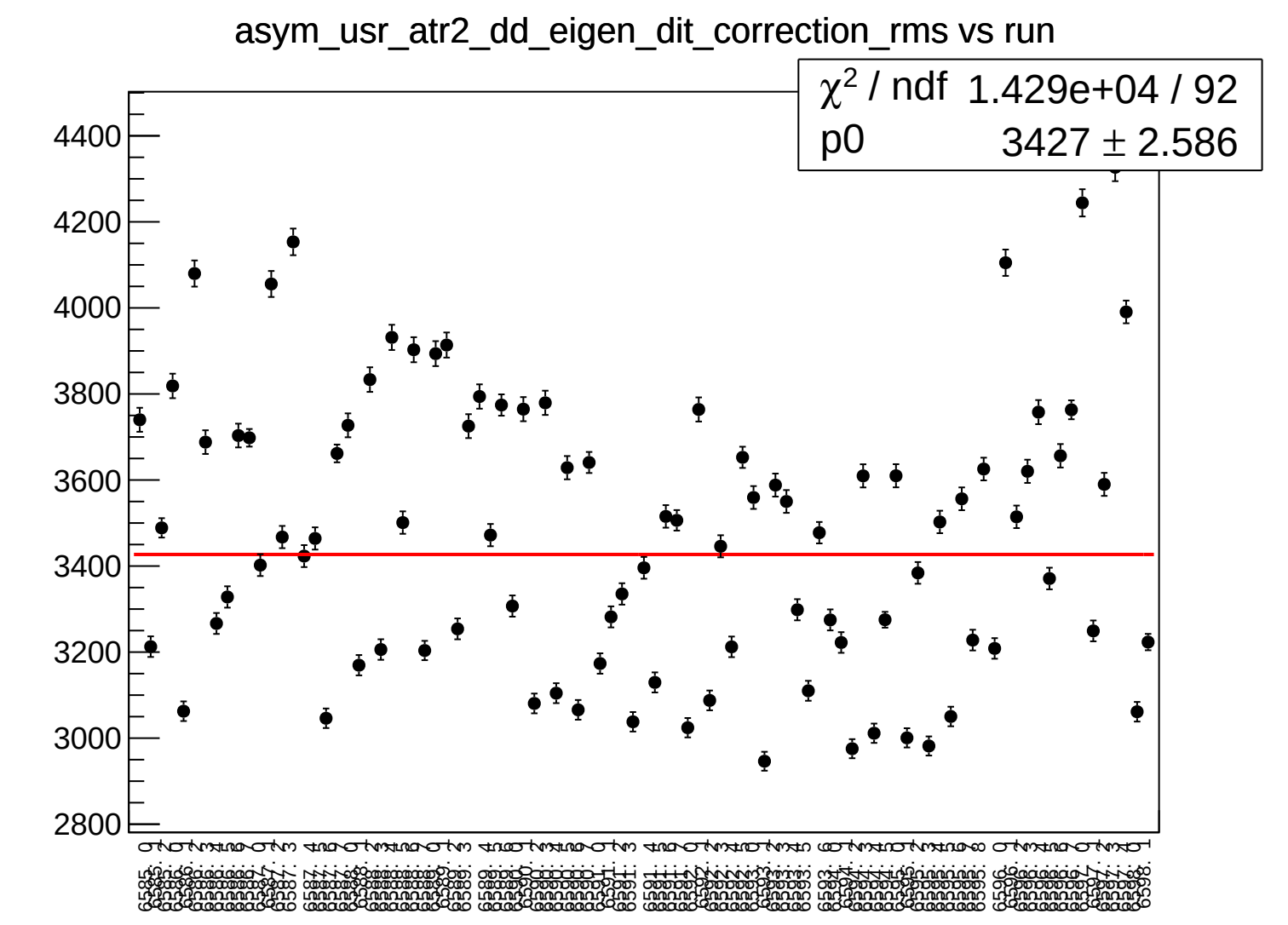

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 196.3 / 92
p0 1259 ± 0.9464
1300
1280
1260
1240
1220

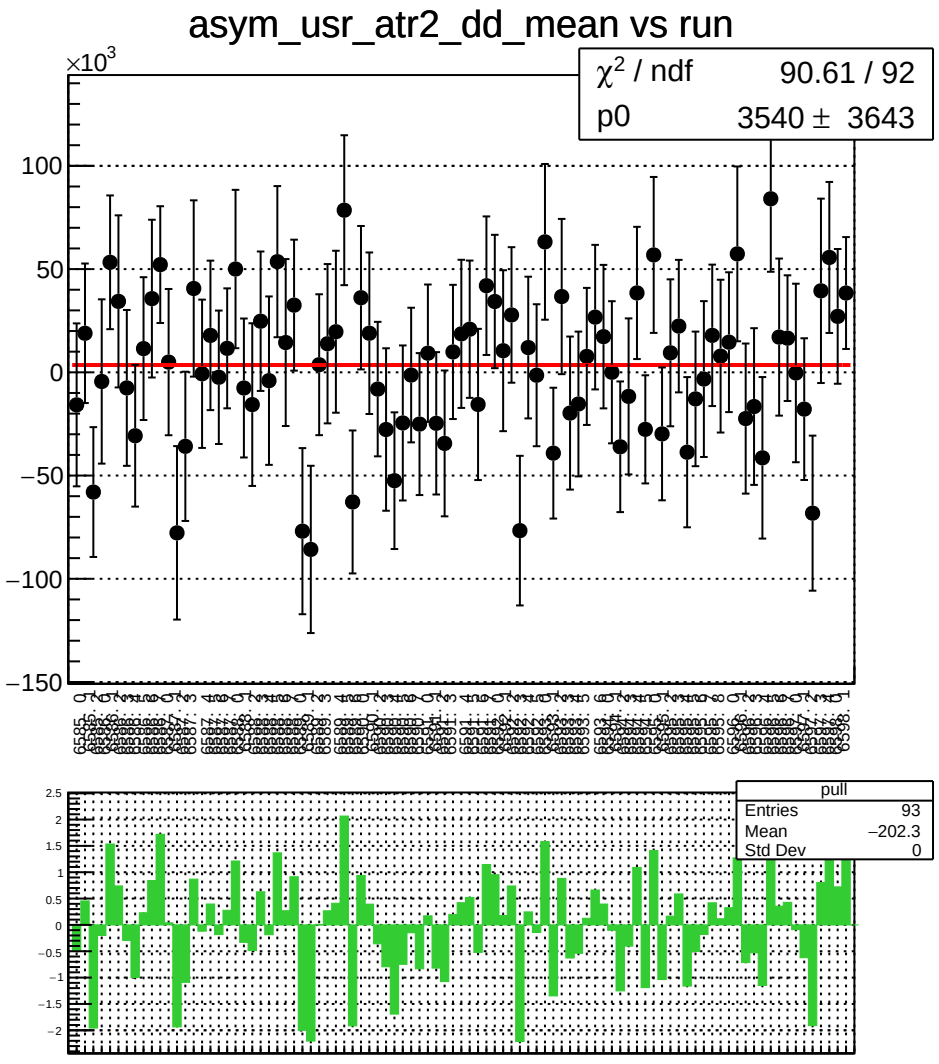
asym_usr_atr2_dd_eigen_dit_correction_mean vs run

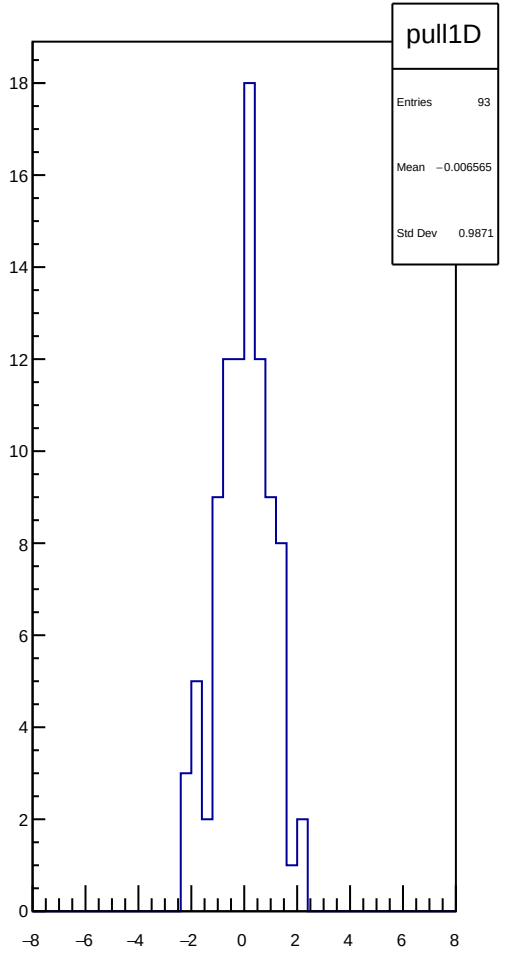


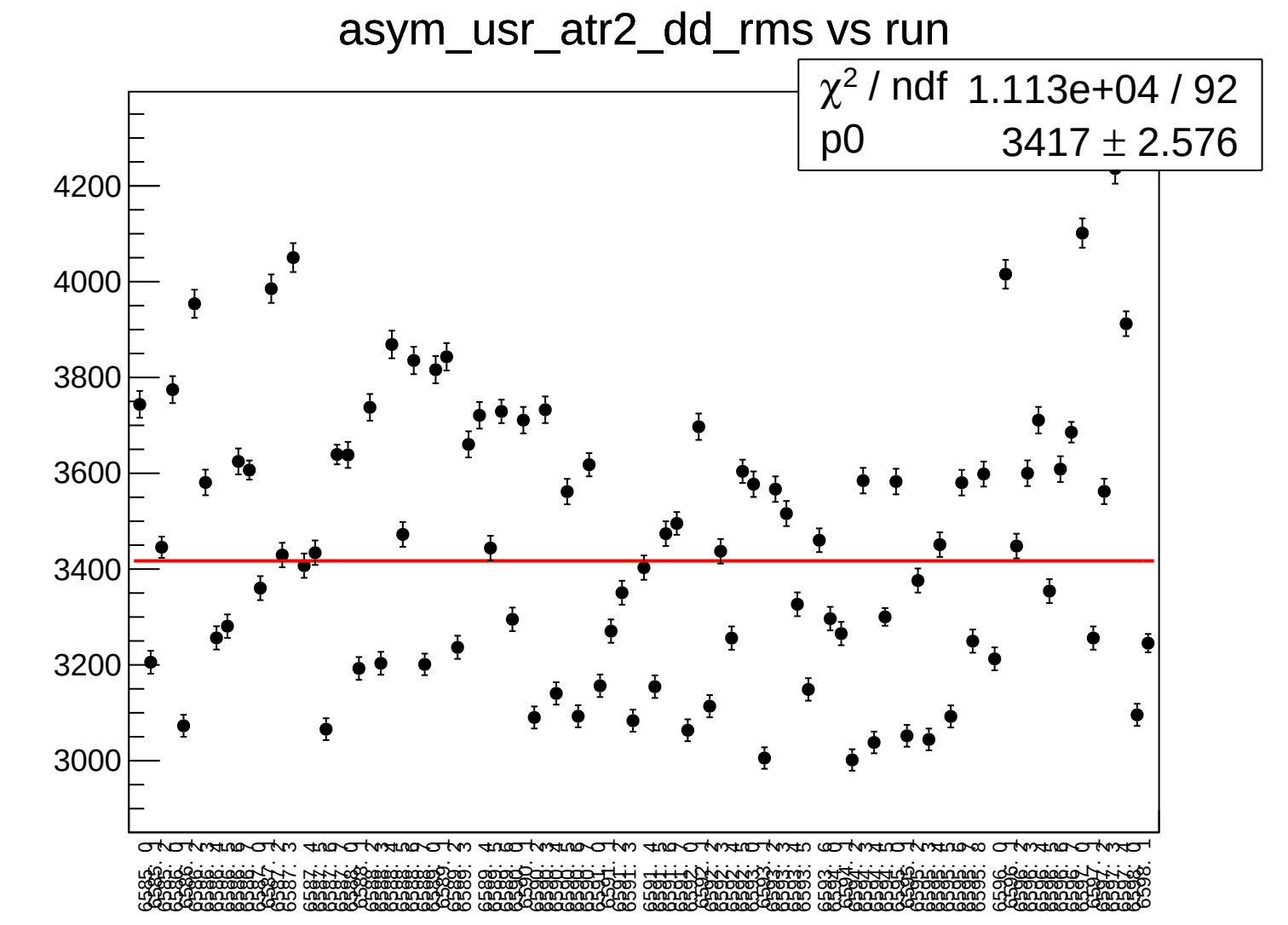


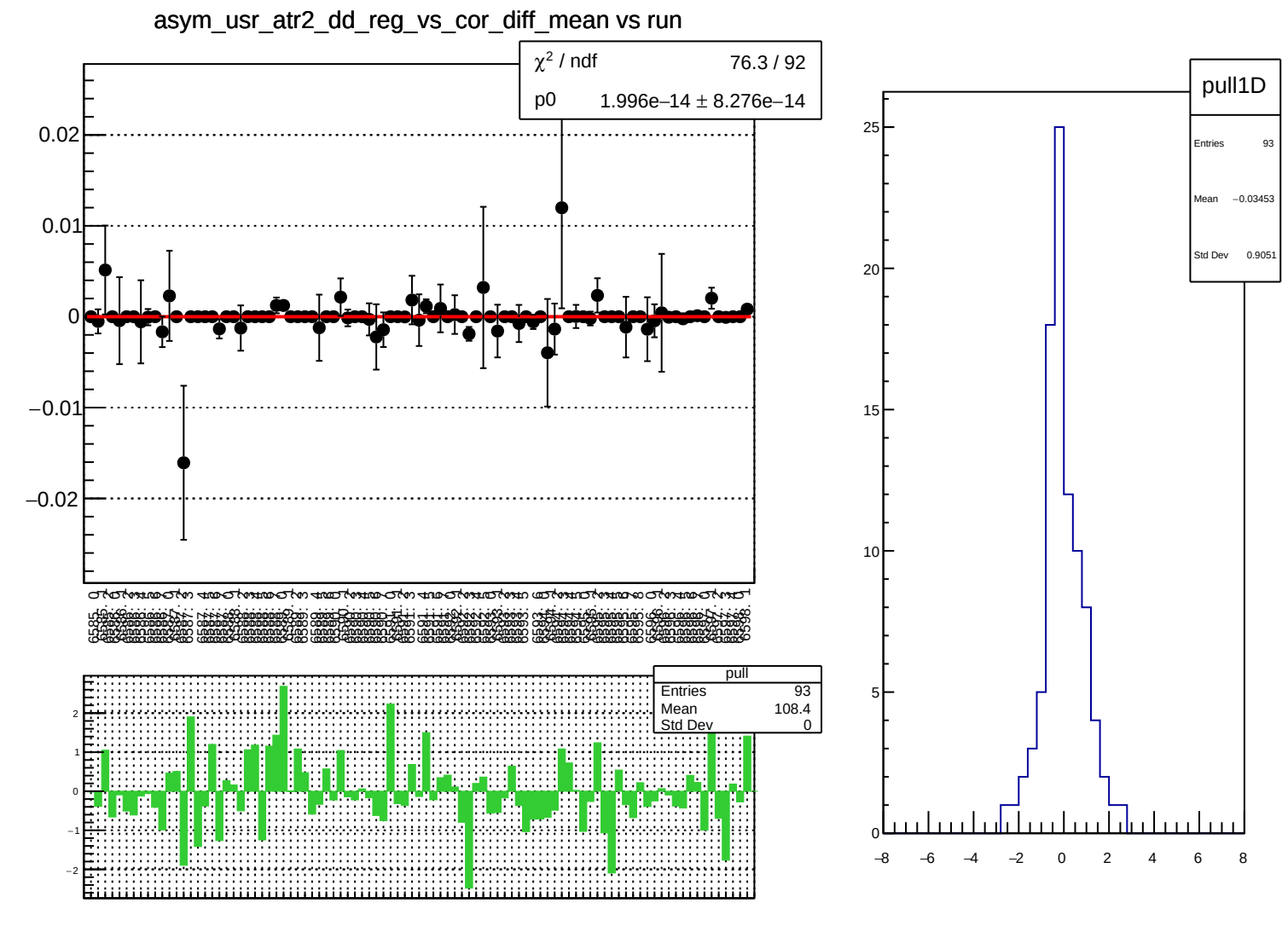


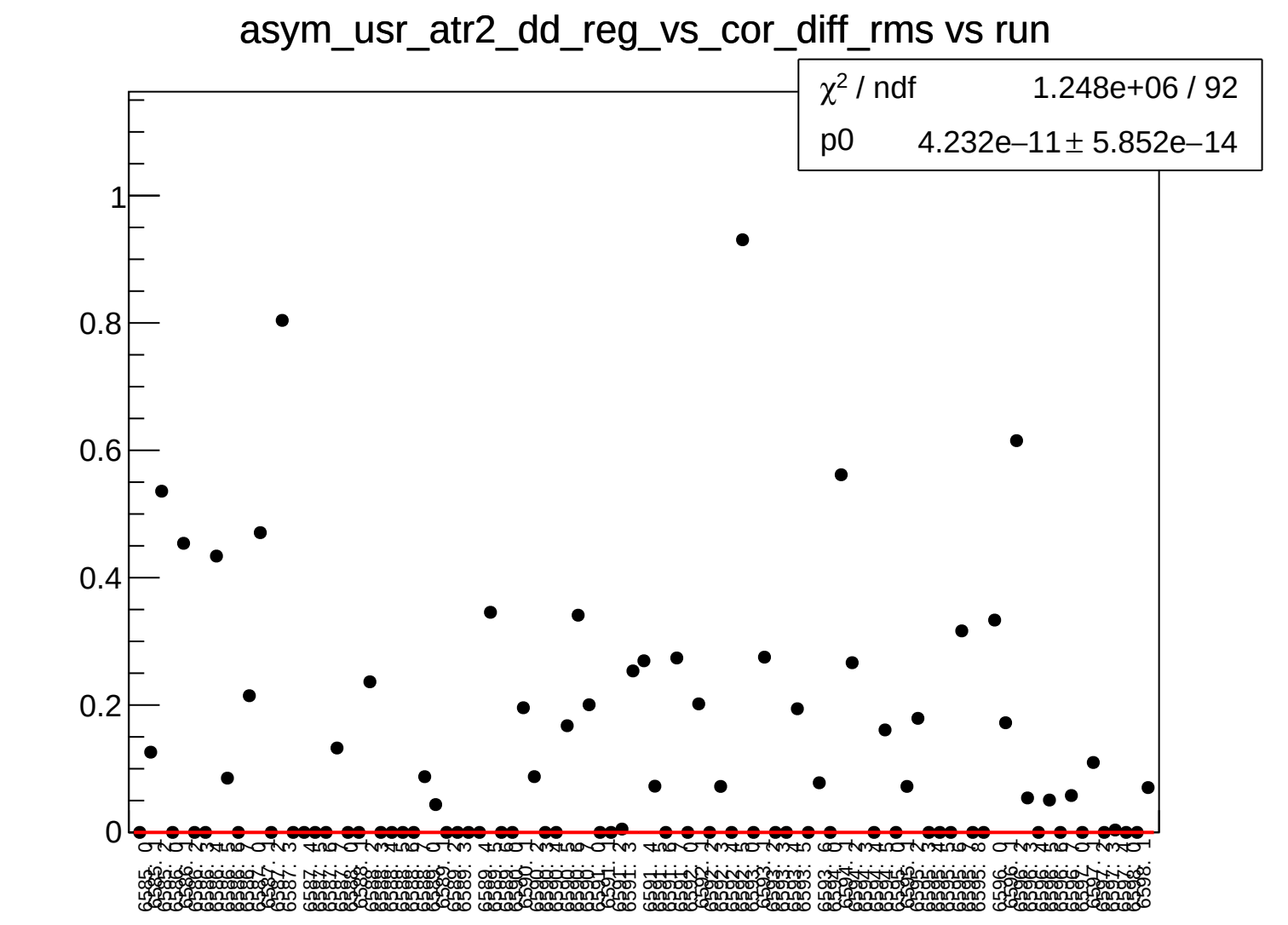

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.429e+04 / 92
p0 3427 ± 2.586
4400
4200
4000
3800
3600
3400
3200
3000
2800

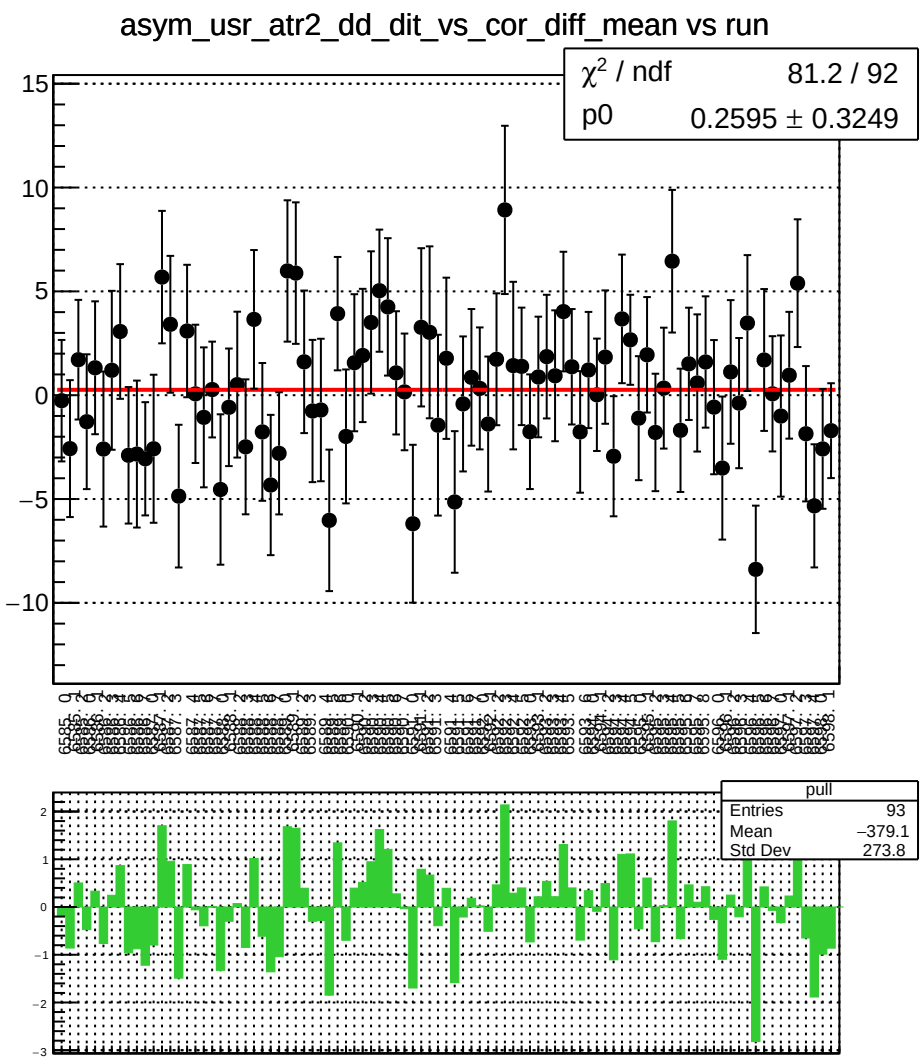

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 90.61 / 92
p0 3540 ± 3643
100
50
0
−50
−100
−150
pull
Entries 93
Mean −202.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

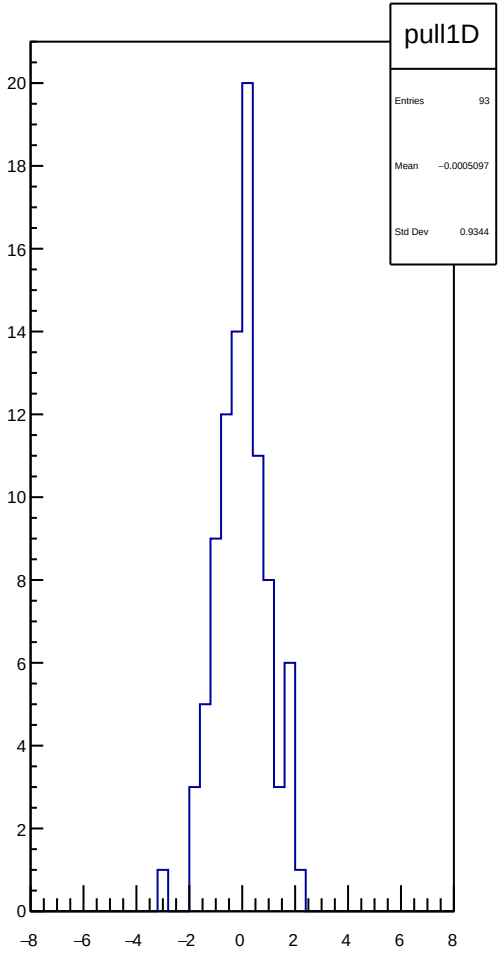

pull1D
Entries 93
Mean −0.006565
Std Dev 0.9871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

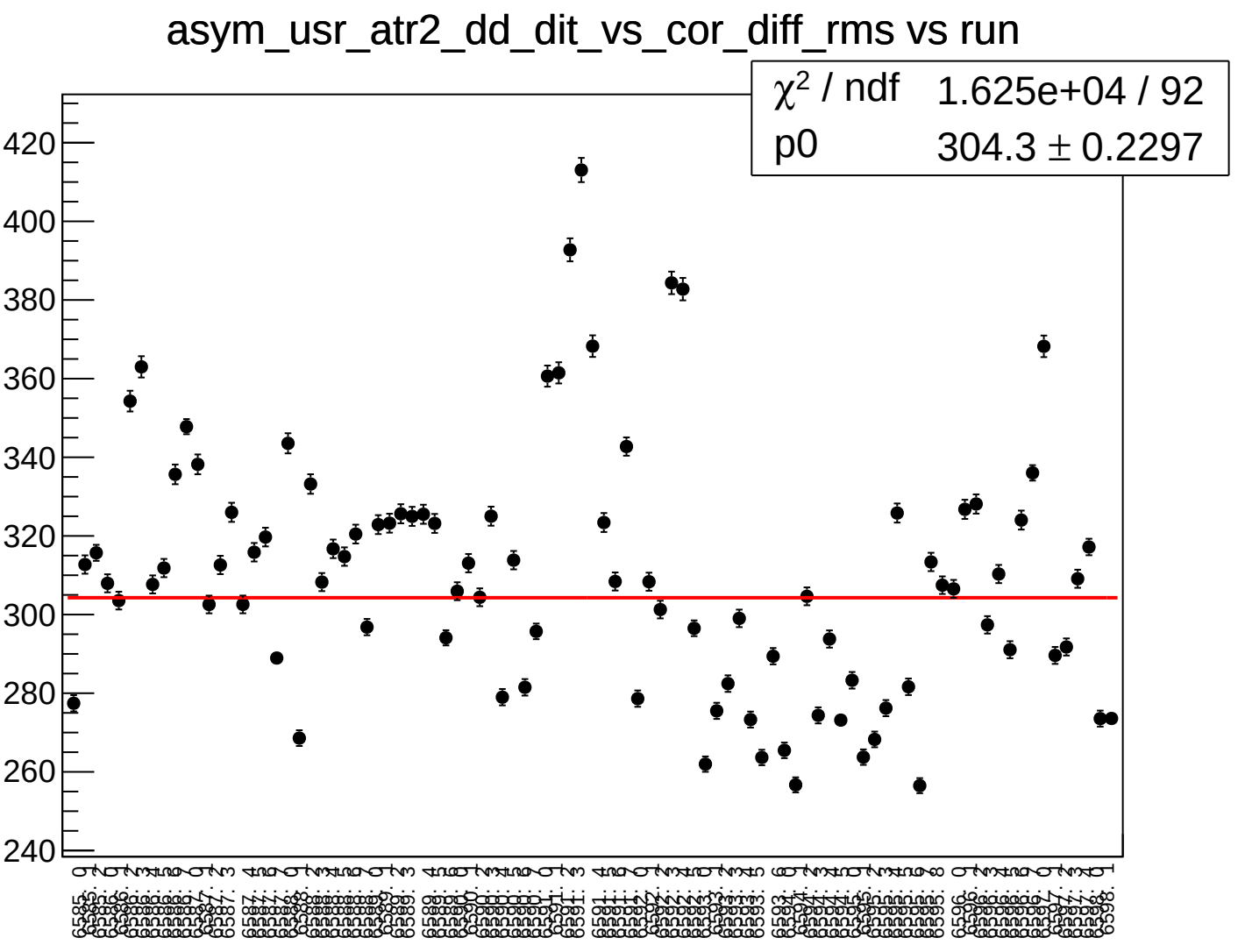

asym_usr_atr2_dd_rms vs run
χ² / ndf 1.113e+04 / 92
p0 3417 ± 2.576
4200
4000
3800
3600
3400
3200
3000

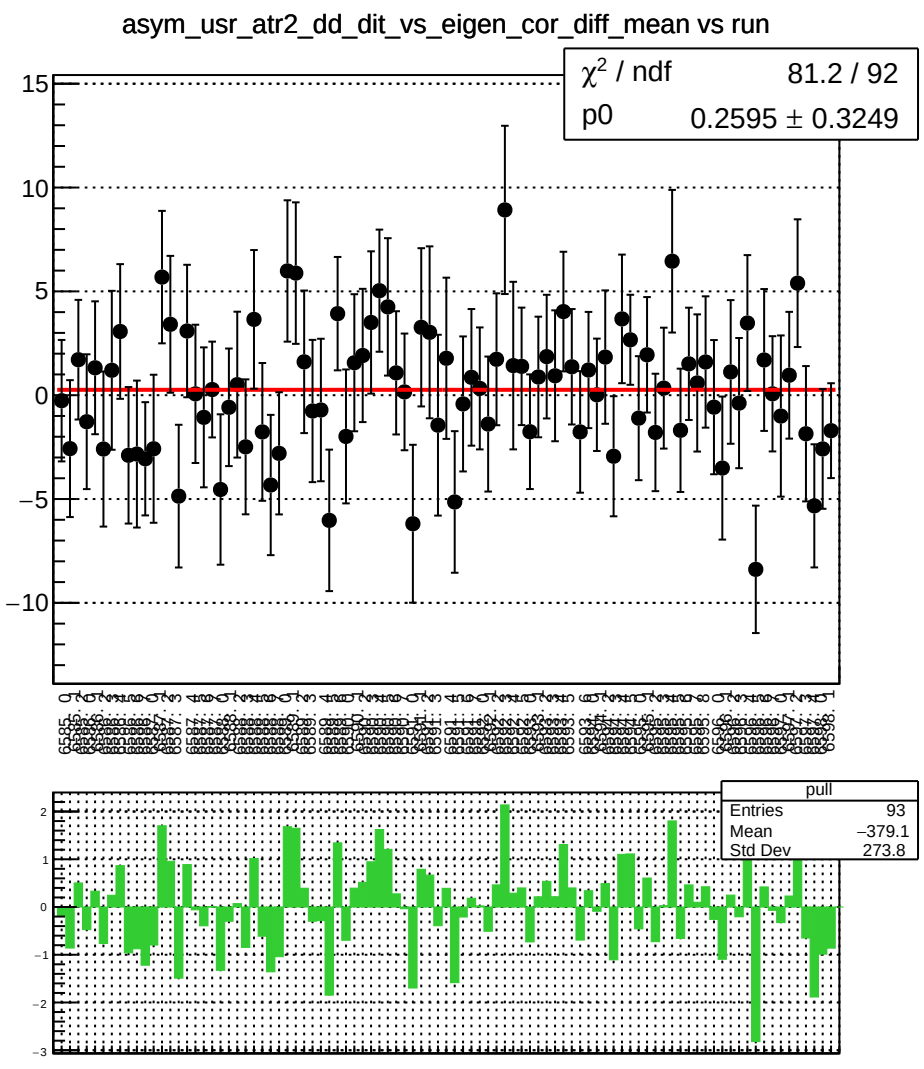

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.3 / 92
p0 1.996e−14 ± 8.276e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 108.4
Std Dev 0
pull1D
Entries 93
Mean −0.03453
Std Dev 0.9051
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

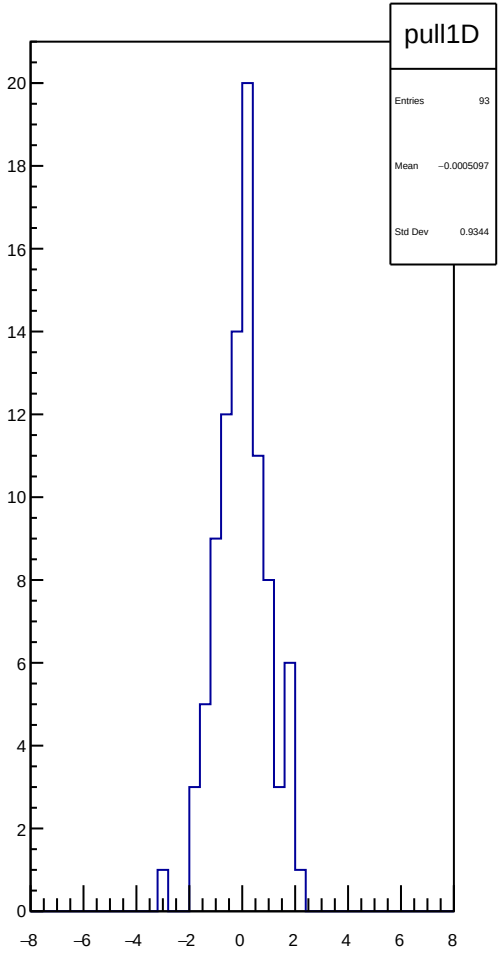

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.248e+06 / 92
p0 4.232e−11 ± 5.852e−14
1
0.8
0.6
0.4
0.2
0

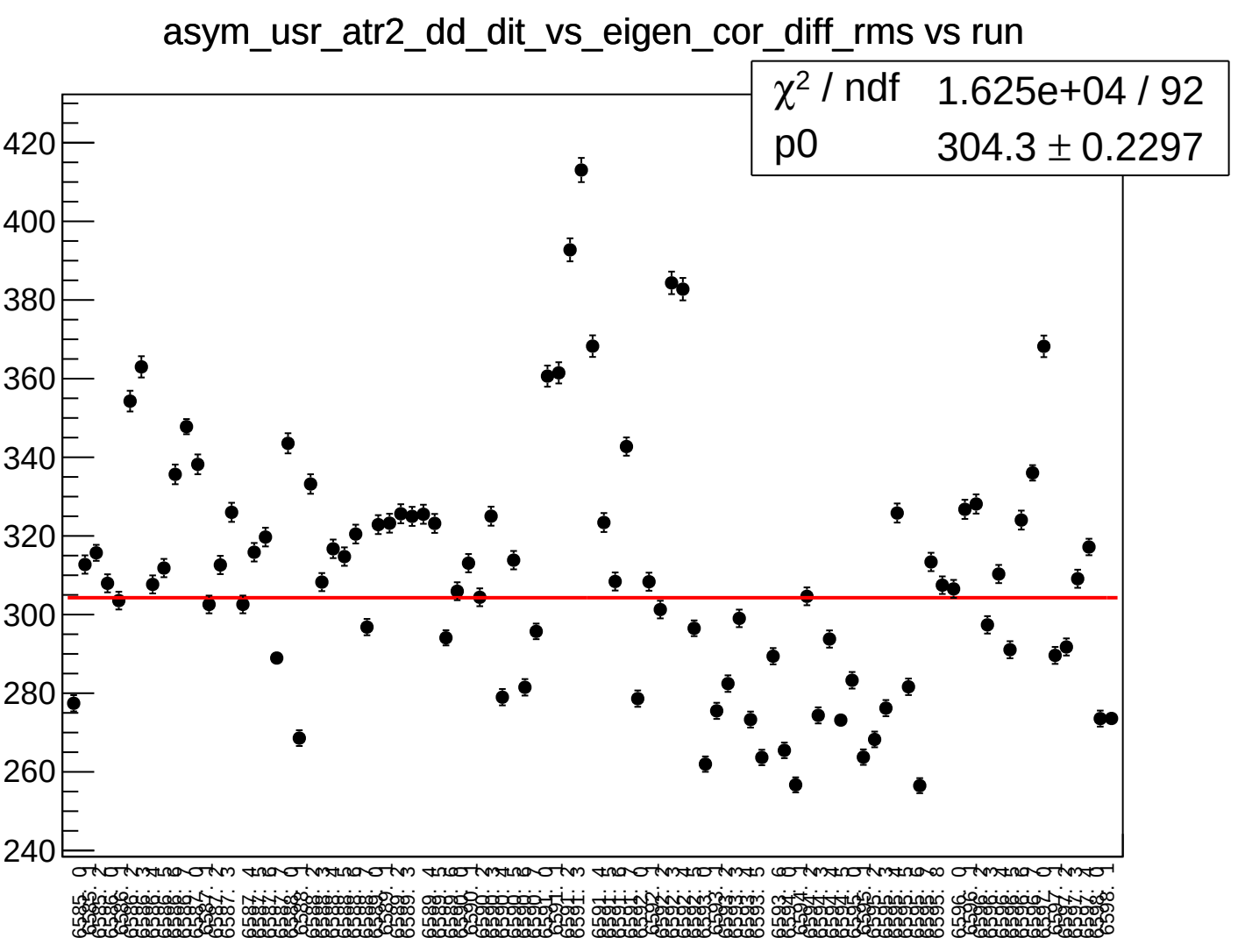

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.2 / 92
p0 0.2595 ± 0.3249
pull
Entries 93
Mean −379.1
Std Dev 273.8

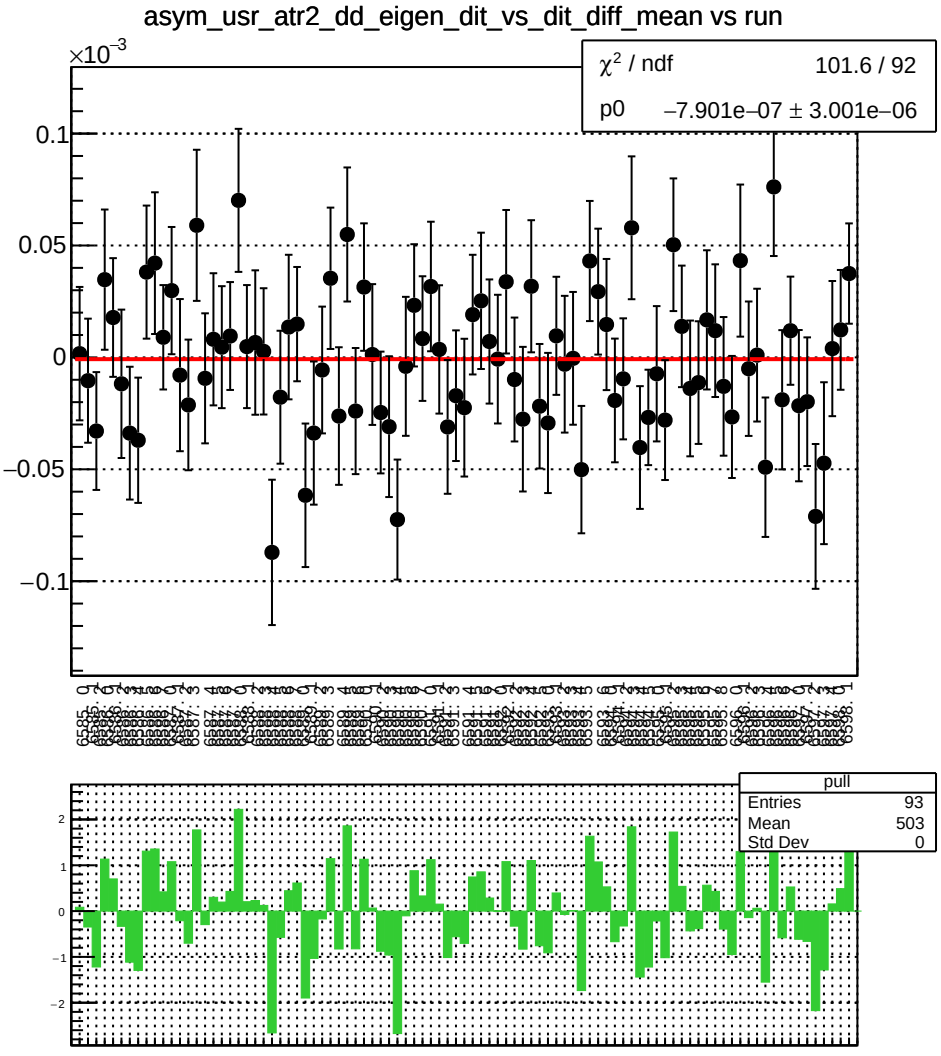

pull1D
Entries 93
Mean −0.0005097
Std Dev 0.9344

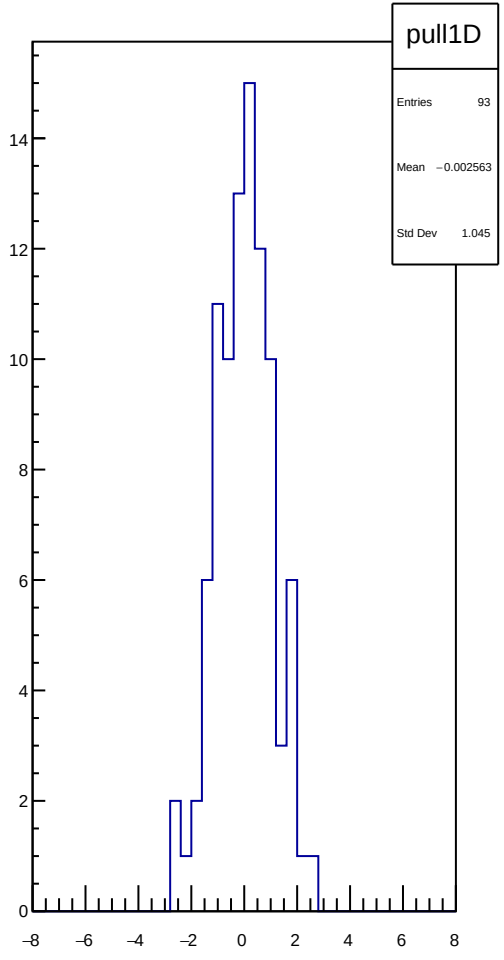

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.625e+04 / 92
p0 304.3 ± 0.2297
420
400
380
360
340
320
300
280
260
240

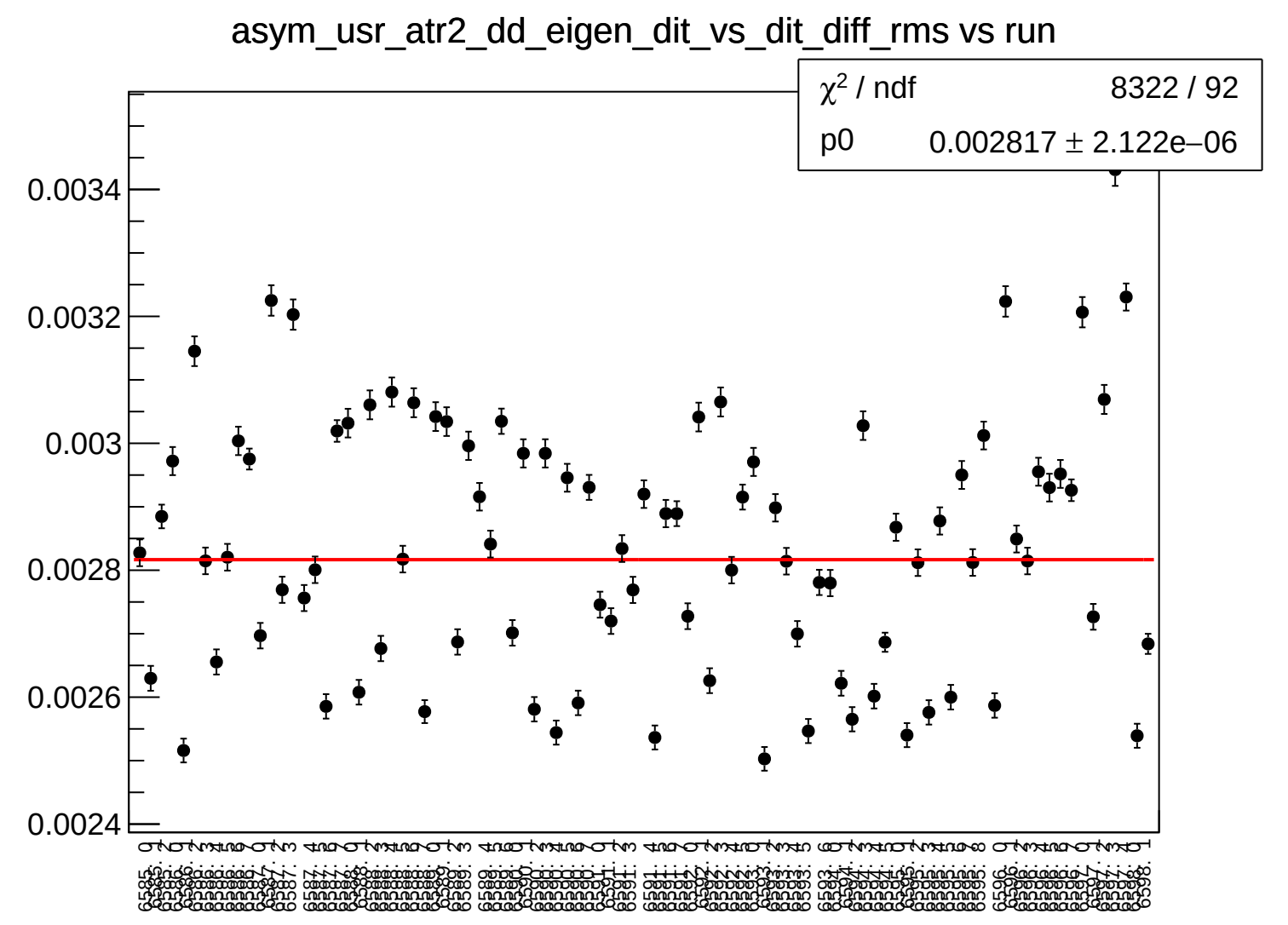

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.2 / 92
p0 0.2595 ± 0.3249
pull
Entries 93
Mean −379.1
Std Dev 273.8

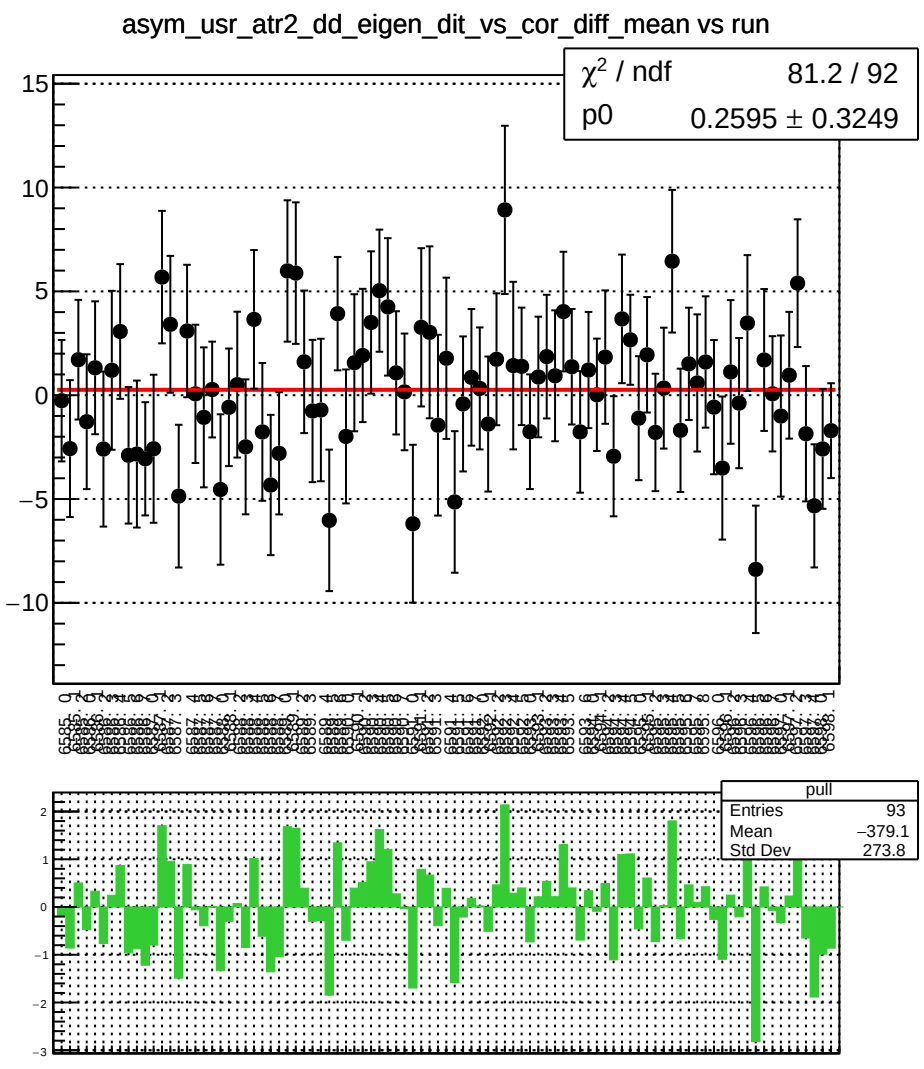

pull1D
Entries 93
Mean −0.0005097
Std Dev 0.9344

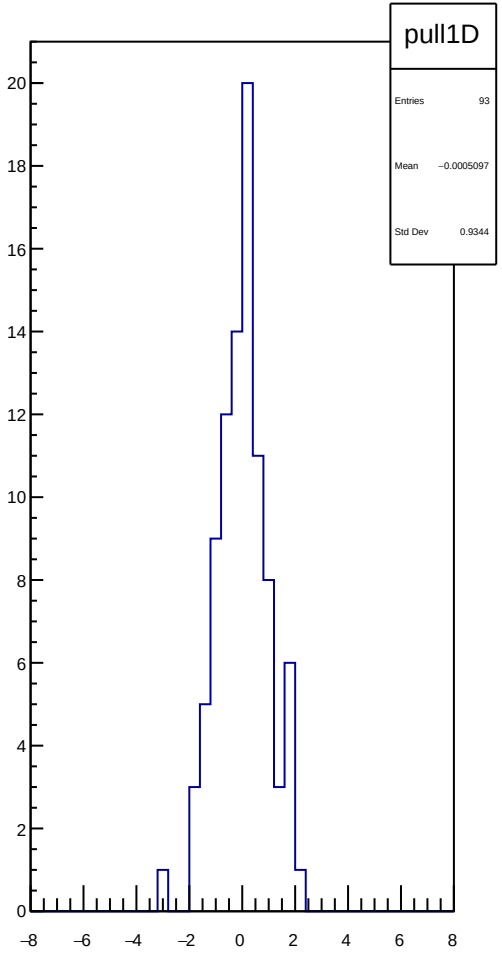

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+04 / 92
p0 304.3 ± 0.2297
420
400
380
360
340
320
300
280
260
240

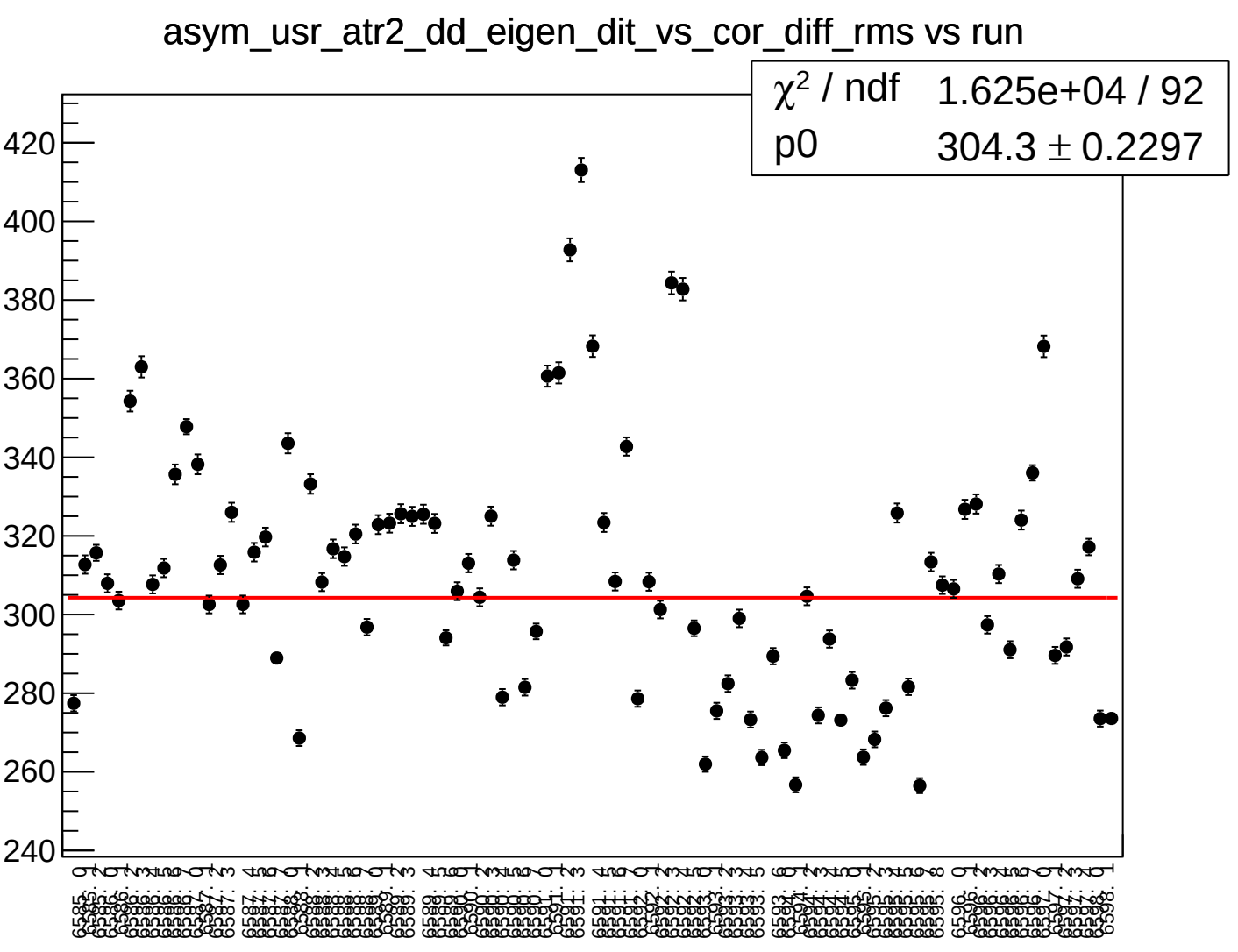

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 101.6 / 92
p0 −7.901e−07 ± 3.001e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 503
Std Dev 0
2
1
0
−1
−2

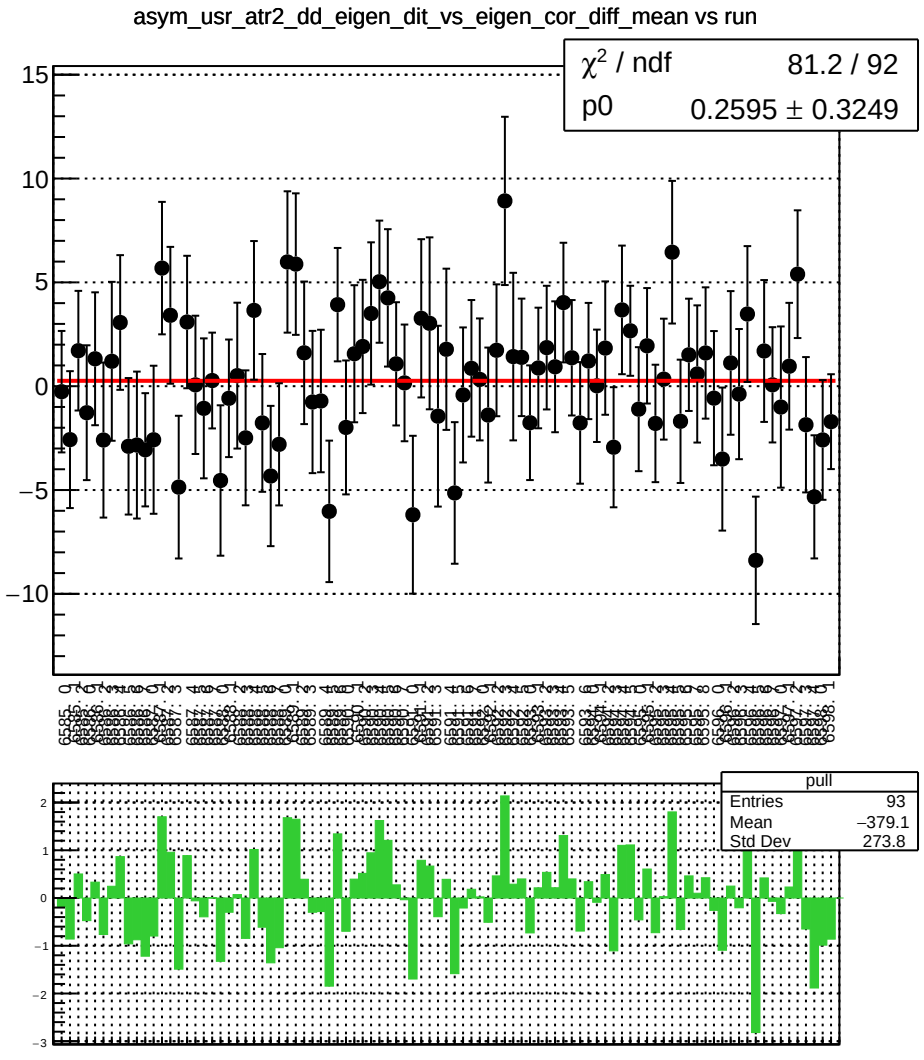

pull1D
Entries 93
Mean −0.002563
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

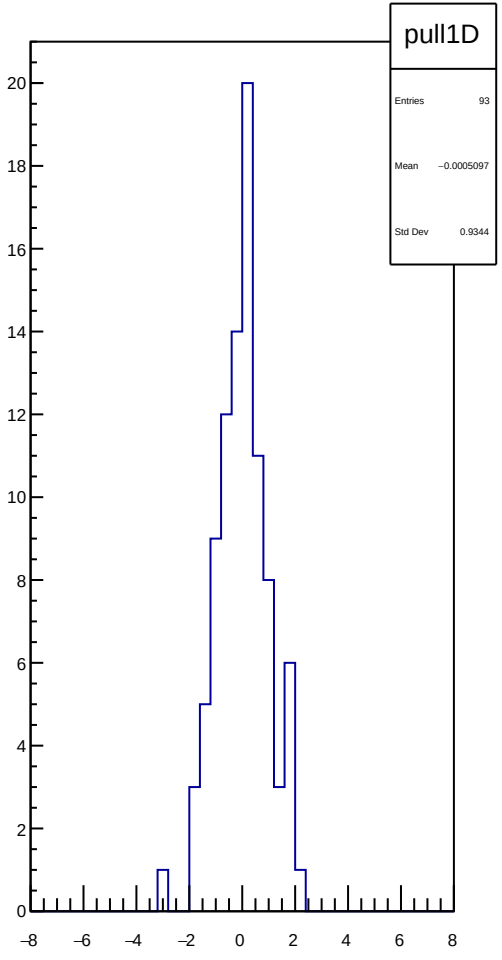

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8322 / 92
p0 0.002817 ± 2.122e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

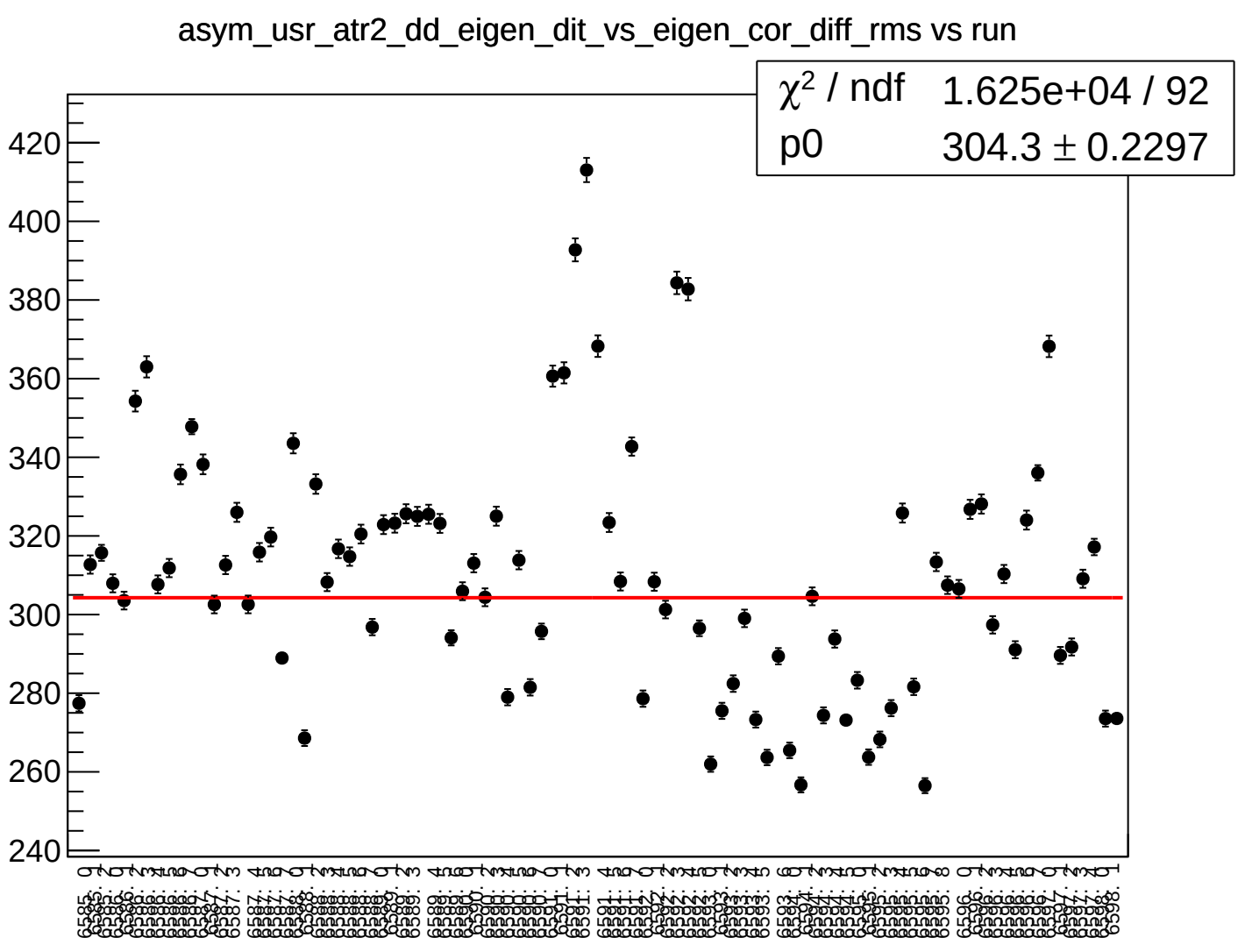

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.2 / 92
p0 0.2595 ± 0.3249
pull
Entries 93
Mean −379.1
Std Dev 273.8

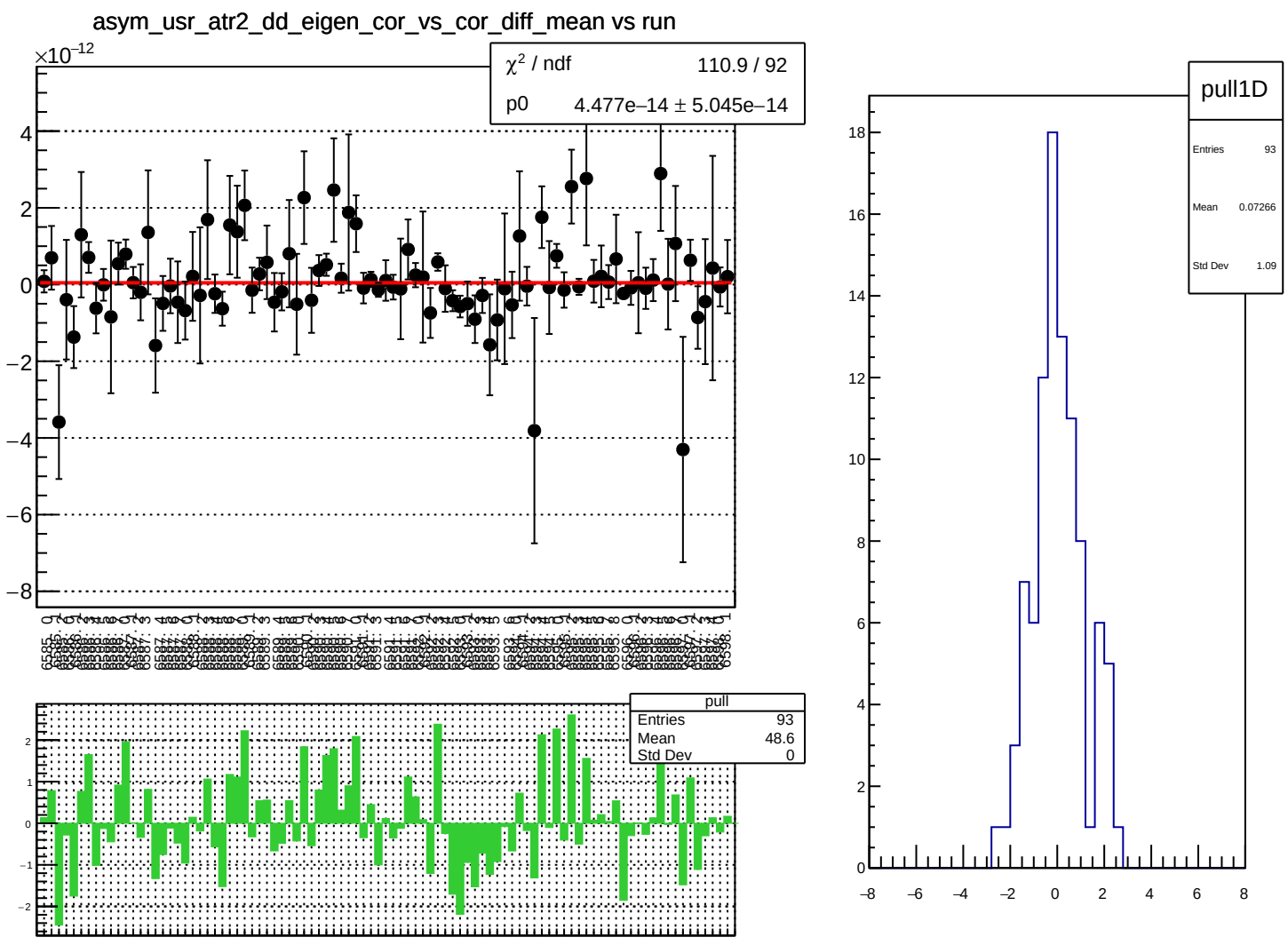

pull1D
Entries 93
Mean −0.0005097
Std Dev 0.9344

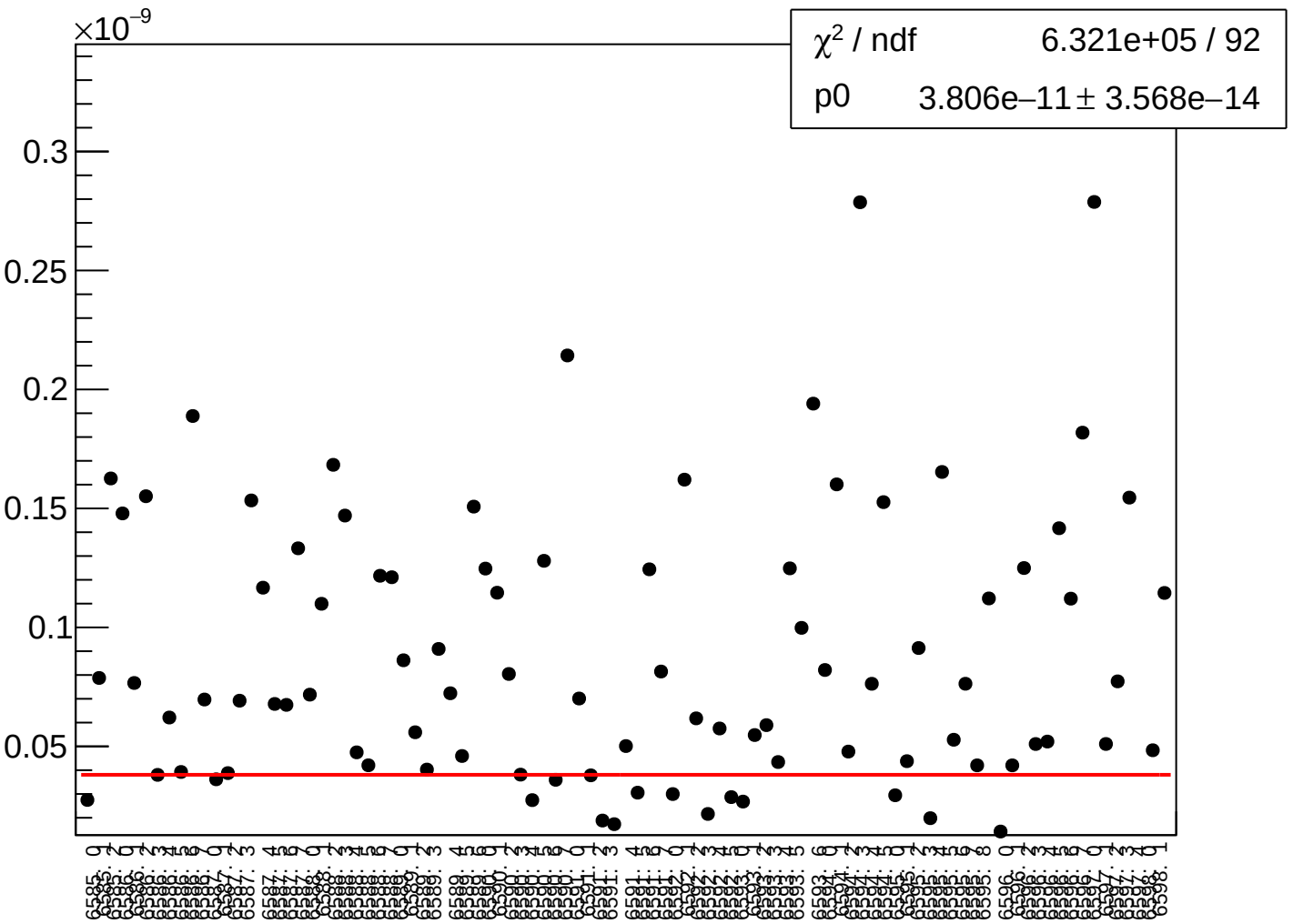

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.625e+04 / 92
p0 304.3 ± 0.2297
420
400
380
360
340
320
300
280
260
240

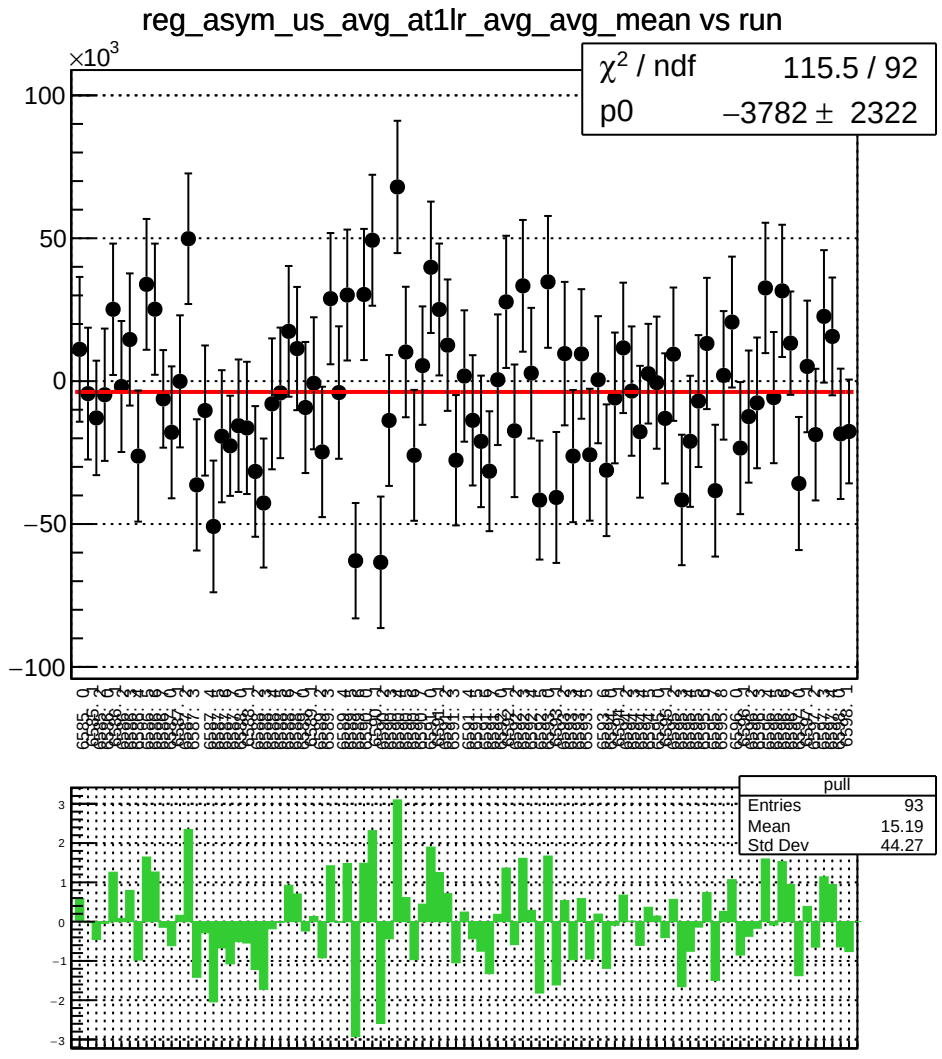

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.2 / 92
p0 0.2595 ± 0.3249
pull
Entries 93
Mean −379.1
Std Dev 273.8

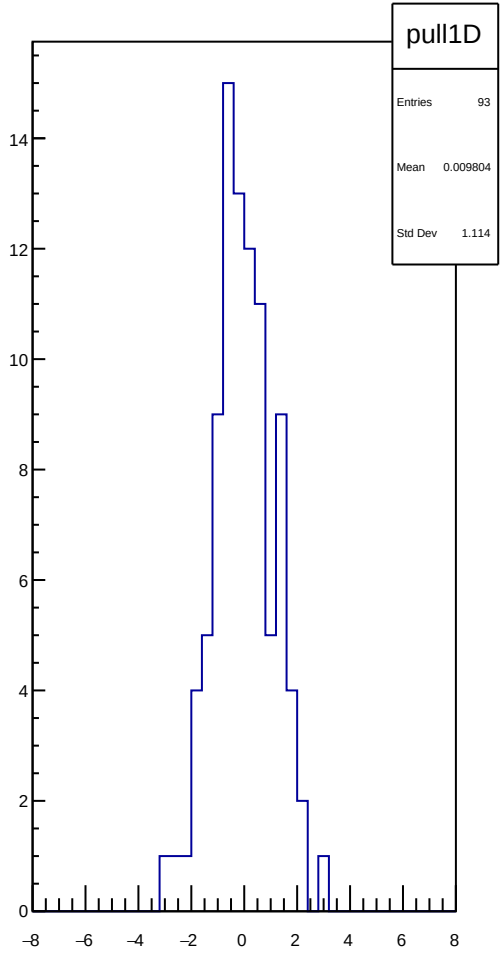

pull1D
Entries 93
Mean −0.0005097
Std Dev 0.9344

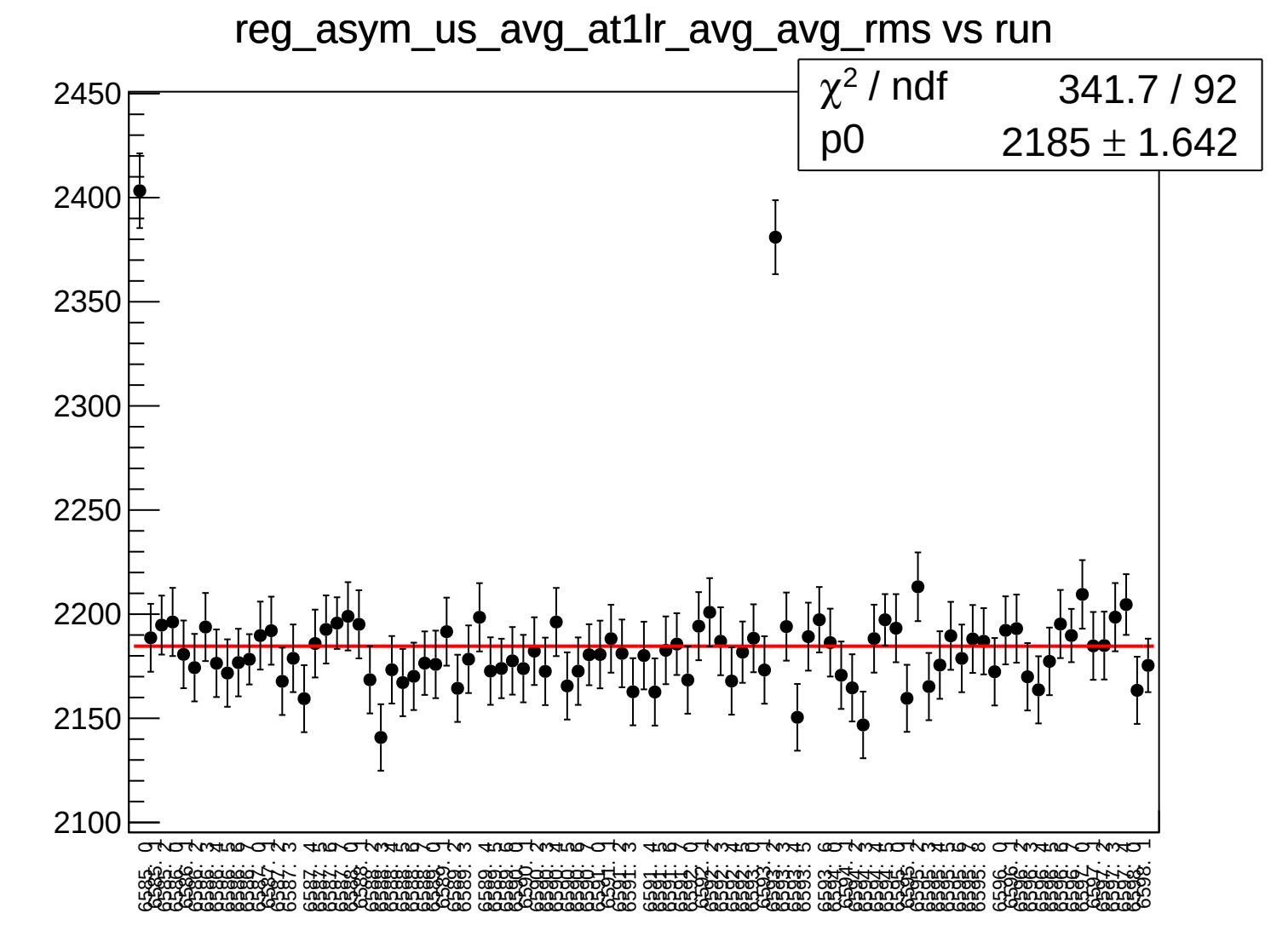

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.625e+04 / 92
p0 304.3 ± 0.2297
420
400
380
360
340
320
300
280
260
240

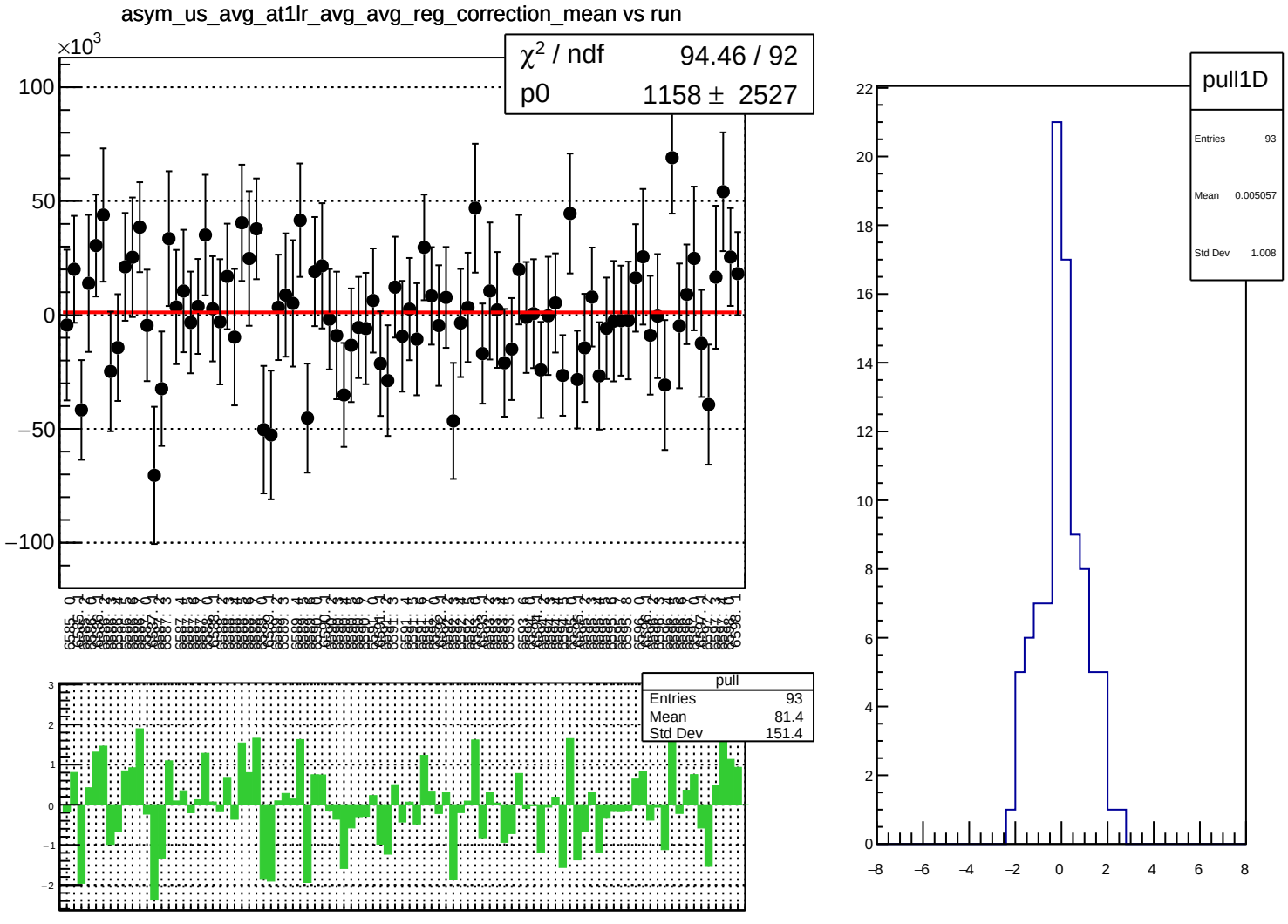

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.9 / 92
p0 4.477e−14 ± 5.045e−14
pull
Entries 93
Mean 48.6
Std Dev 0
pull1D
Entries 93
Mean 0.07266
Std Dev 1.09

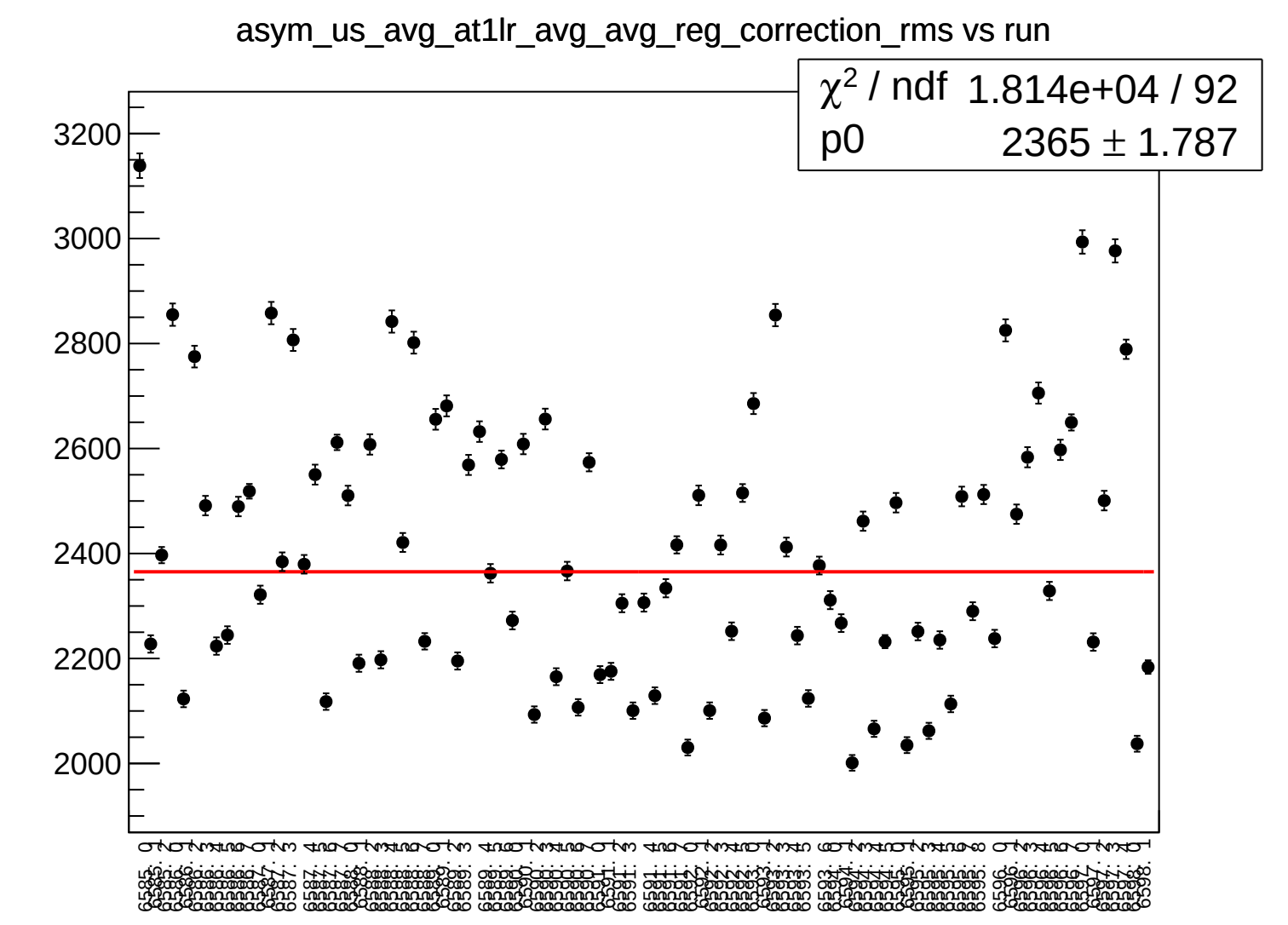

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.321e+05 / 92
p0 3.806e−11 ± 3.568e−14
0.3
0.25
0.2
0.15
0.1
0.05

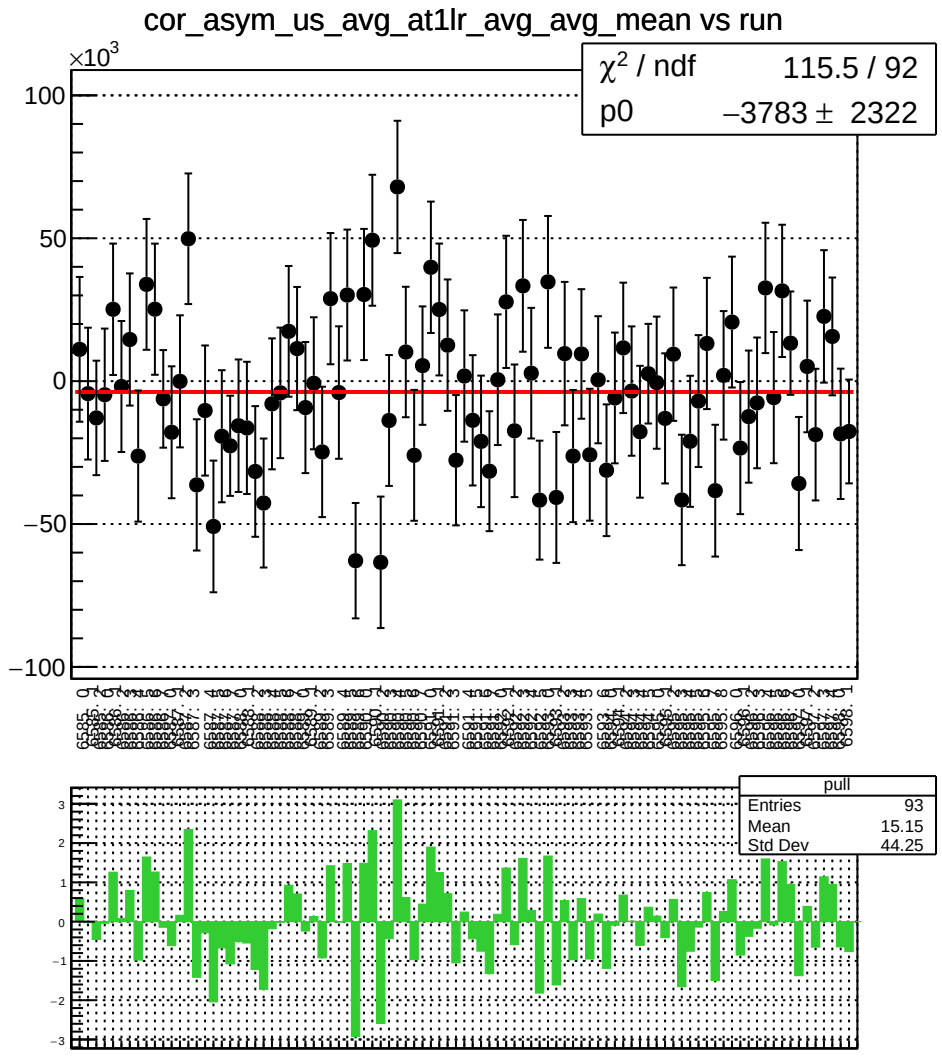

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 115.5 / 92
p0 −3782 ± 2322
100
50
0
−50
−100
pull
Entries 93
Mean 15.19
Std Dev 44.27
3
2
1
0
−1
−2
−3

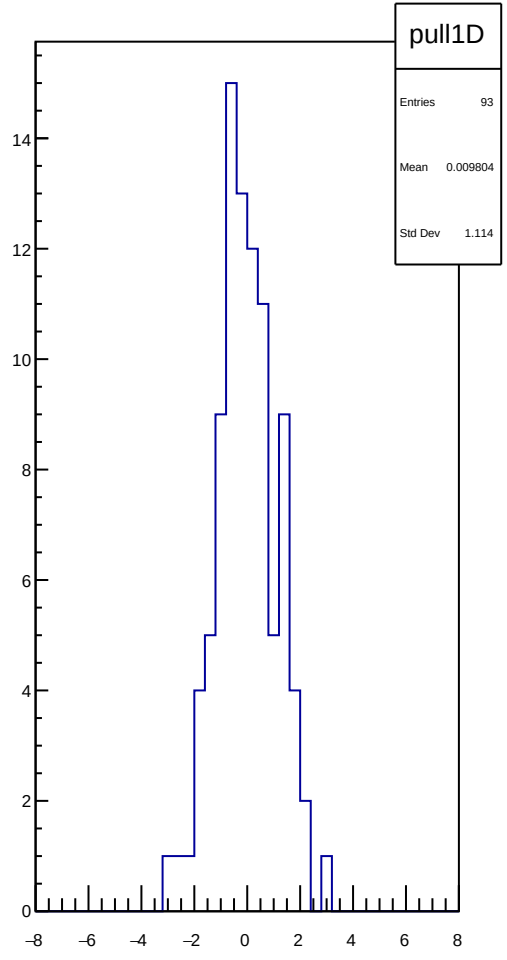

pull1D
Entries 93
Mean 0.009804
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

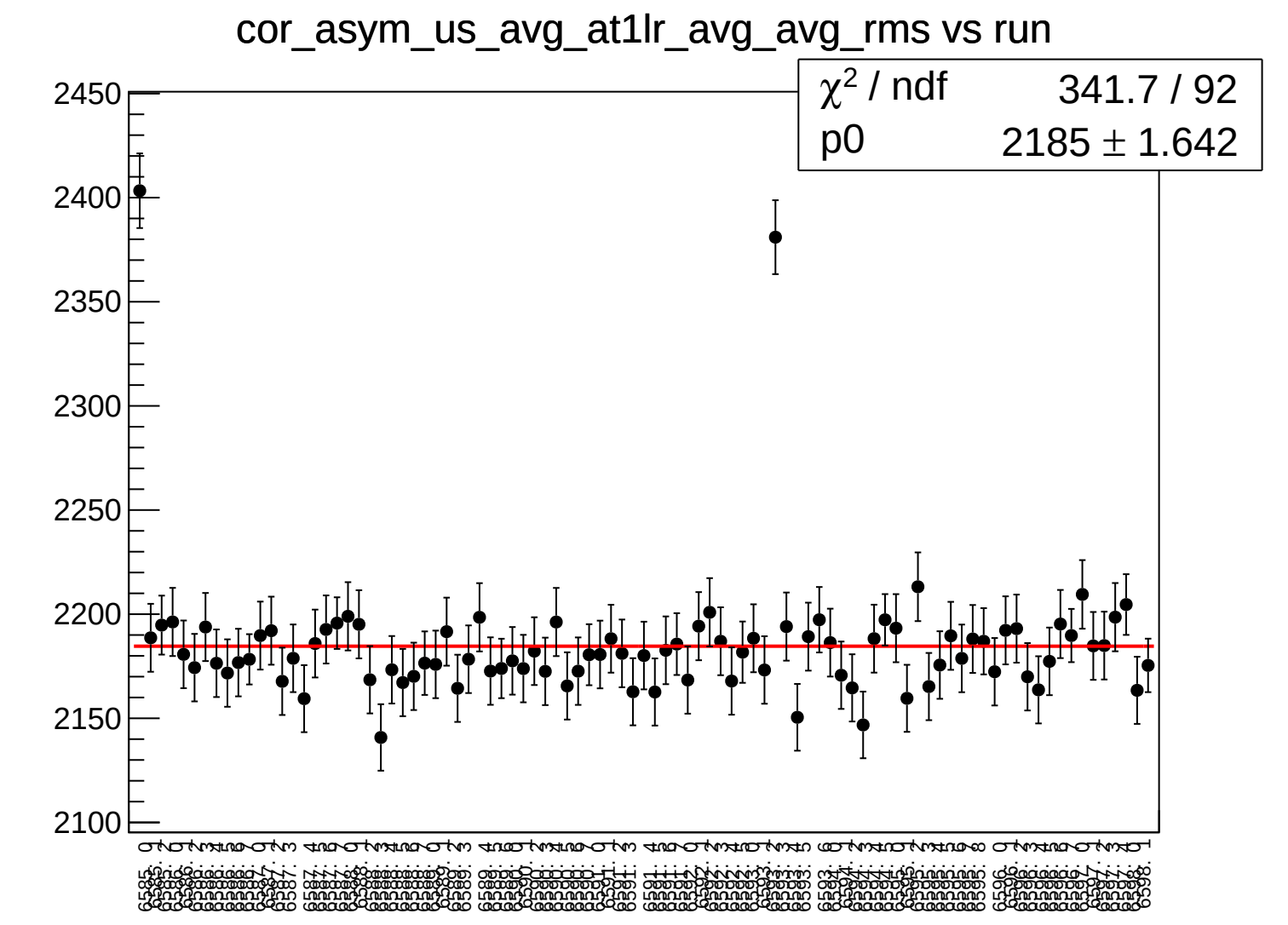

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 341.7 / 92
p0 2185 ± 1.642
2450
2400
2350
2300
2250
2200
2150
2100

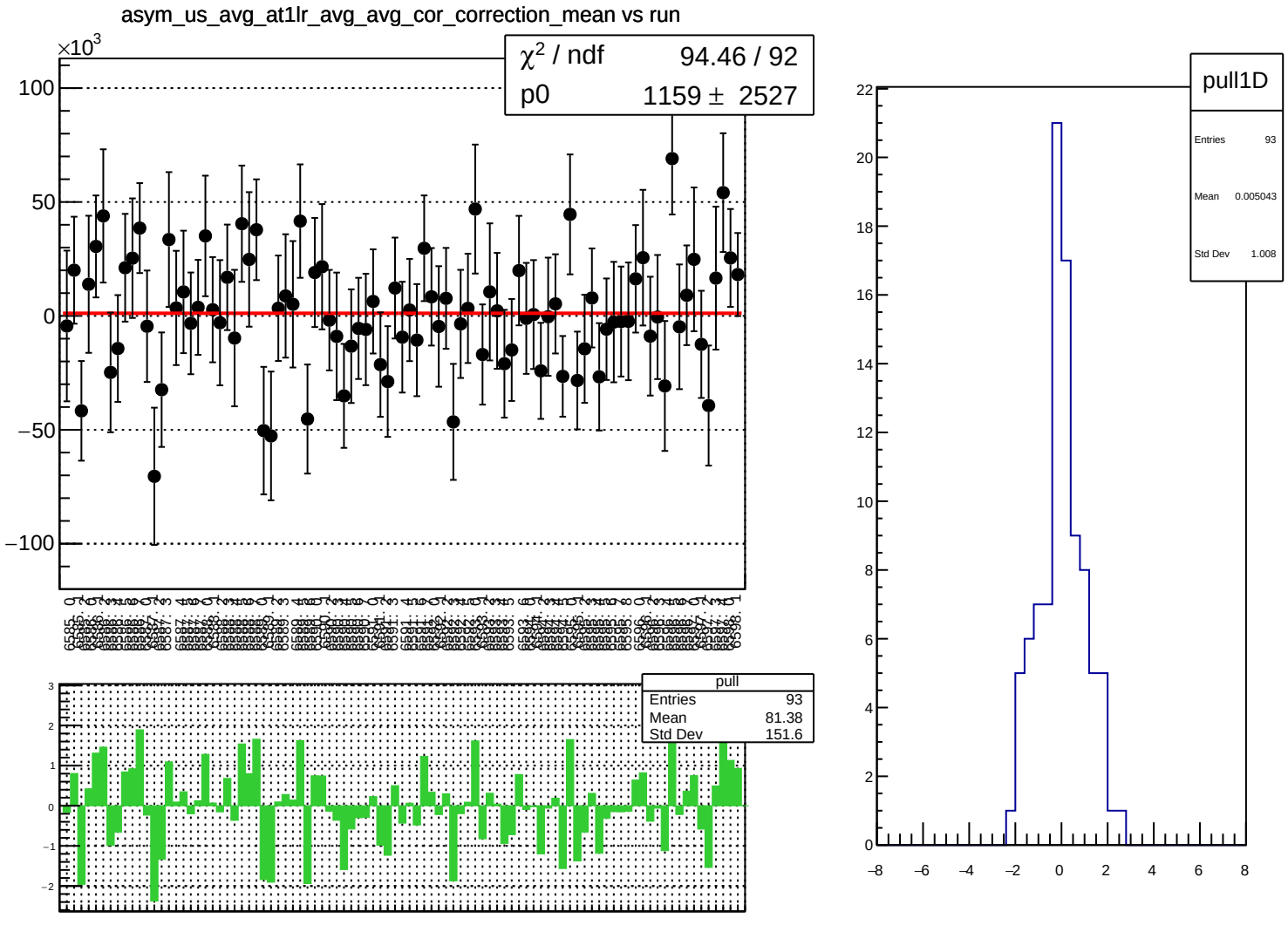

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.46 / 92
p0 1158 ± 2527
100
50
0
−50
−100
pull
Entries 93
Mean 81.4
Std Dev 151.4
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005057
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

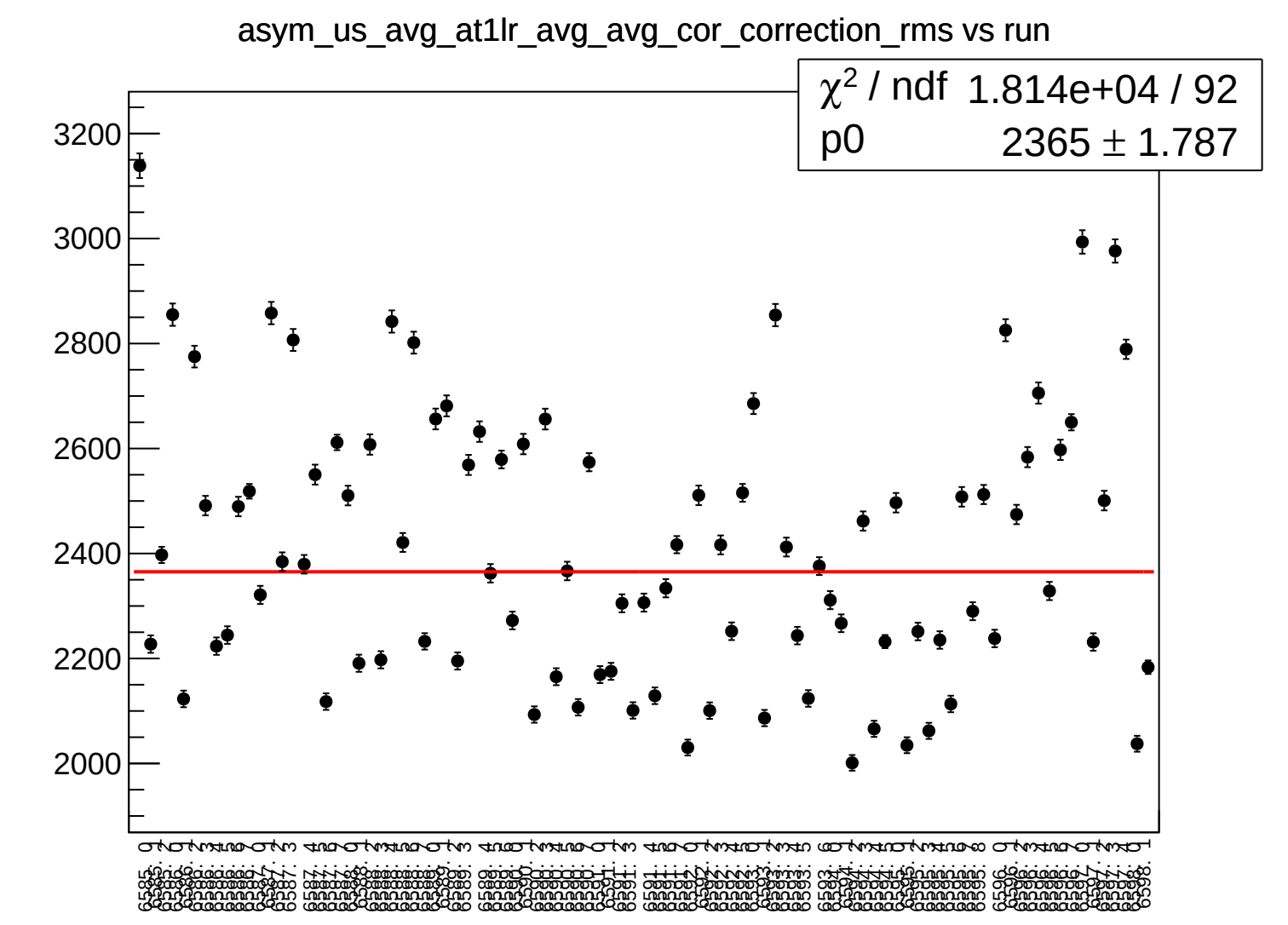

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.814e+04 / 92
p0 2365 ± 1.787
3200
3000
2800
2600
2400
2200
2000

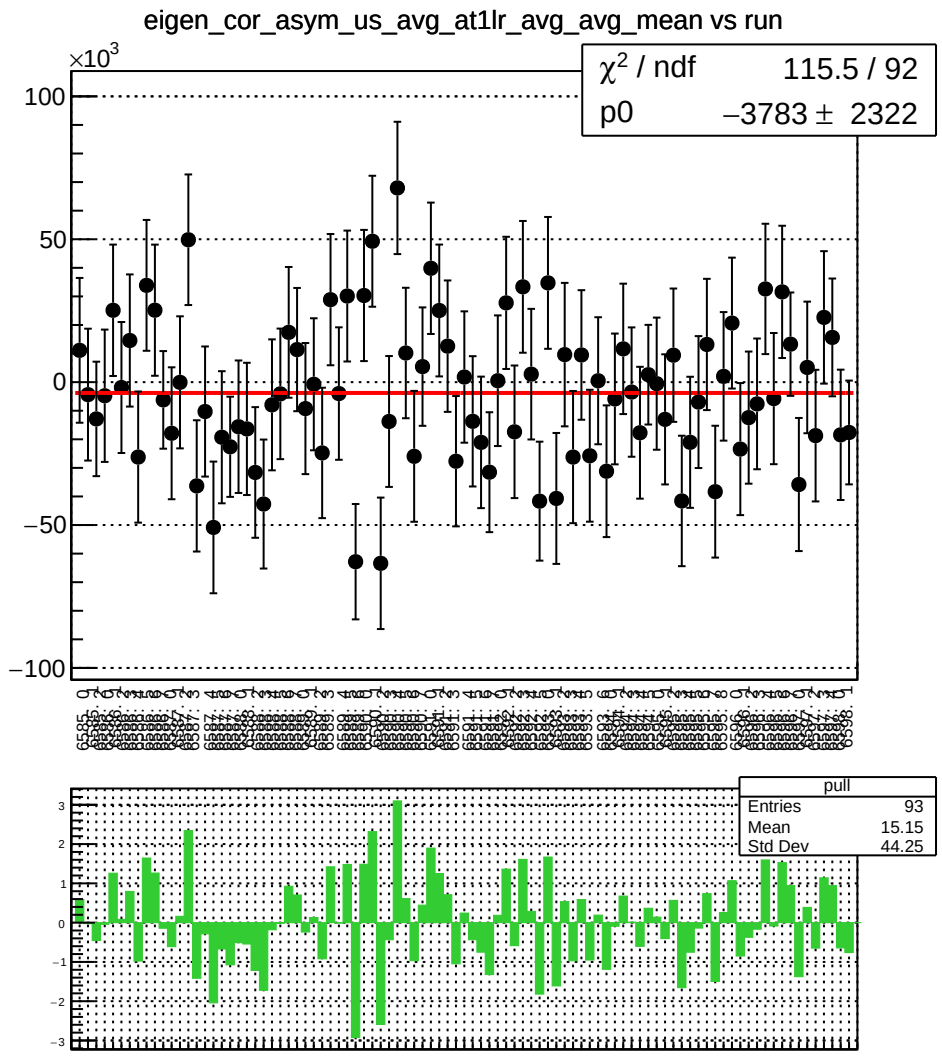

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 115.5 / 92
p0 −3783 ± 2322
100
50
0
−50
−100
pull
Entries 93
Mean 15.15
Std Dev 44.25
3
2
1
0
−1
−2
−3

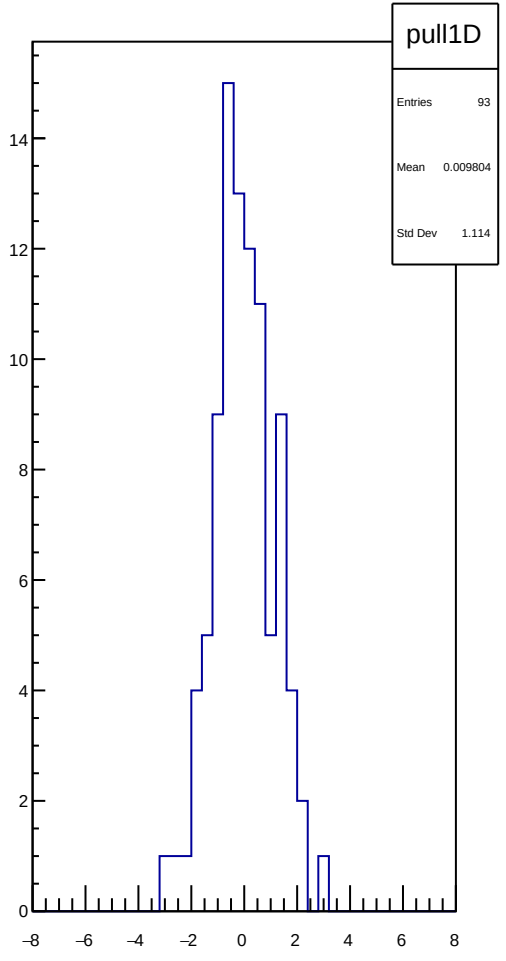

pull1D
Entries 93
Mean 0.009804
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

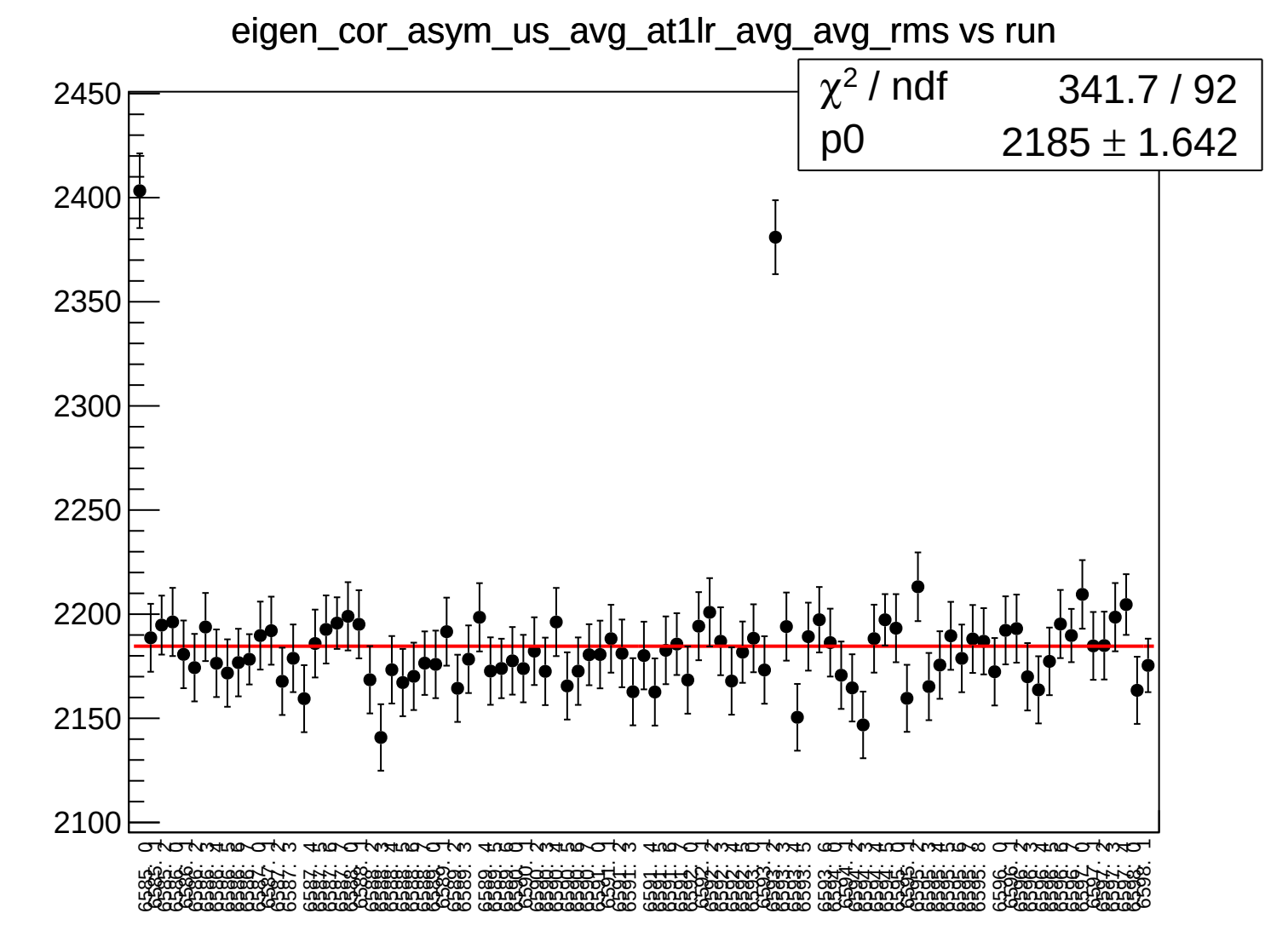

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 341.7 / 92
p0 2185 ± 1.642
2450
2400
2350
2300
2250
2200
2150
2100

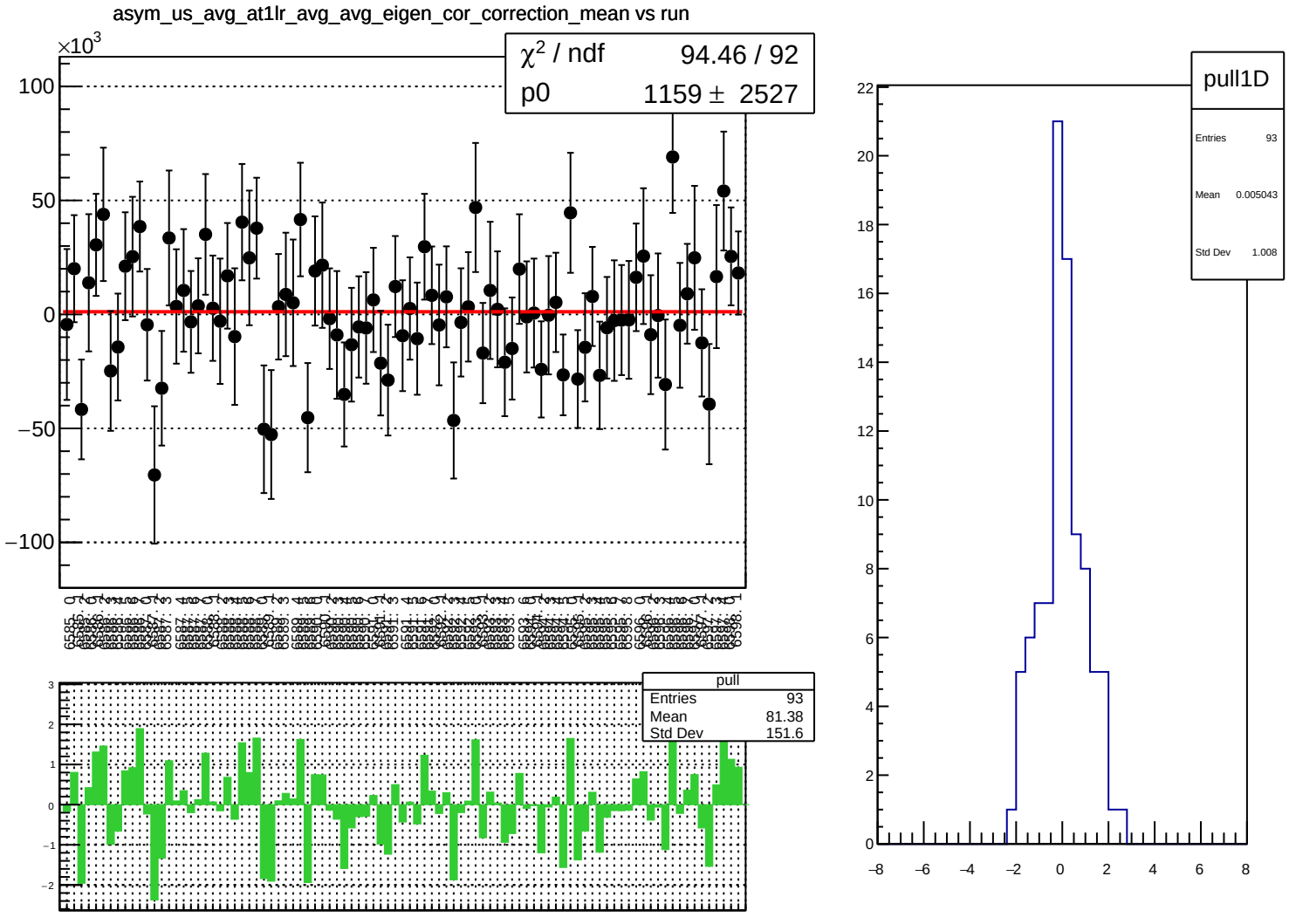

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.46 / 92
p0 1159 ± 2527
pull
Entries 93
Mean 81.38
Std Dev 151.6
pull1D
Entries 93
Mean 0.005043
Std Dev 1.008

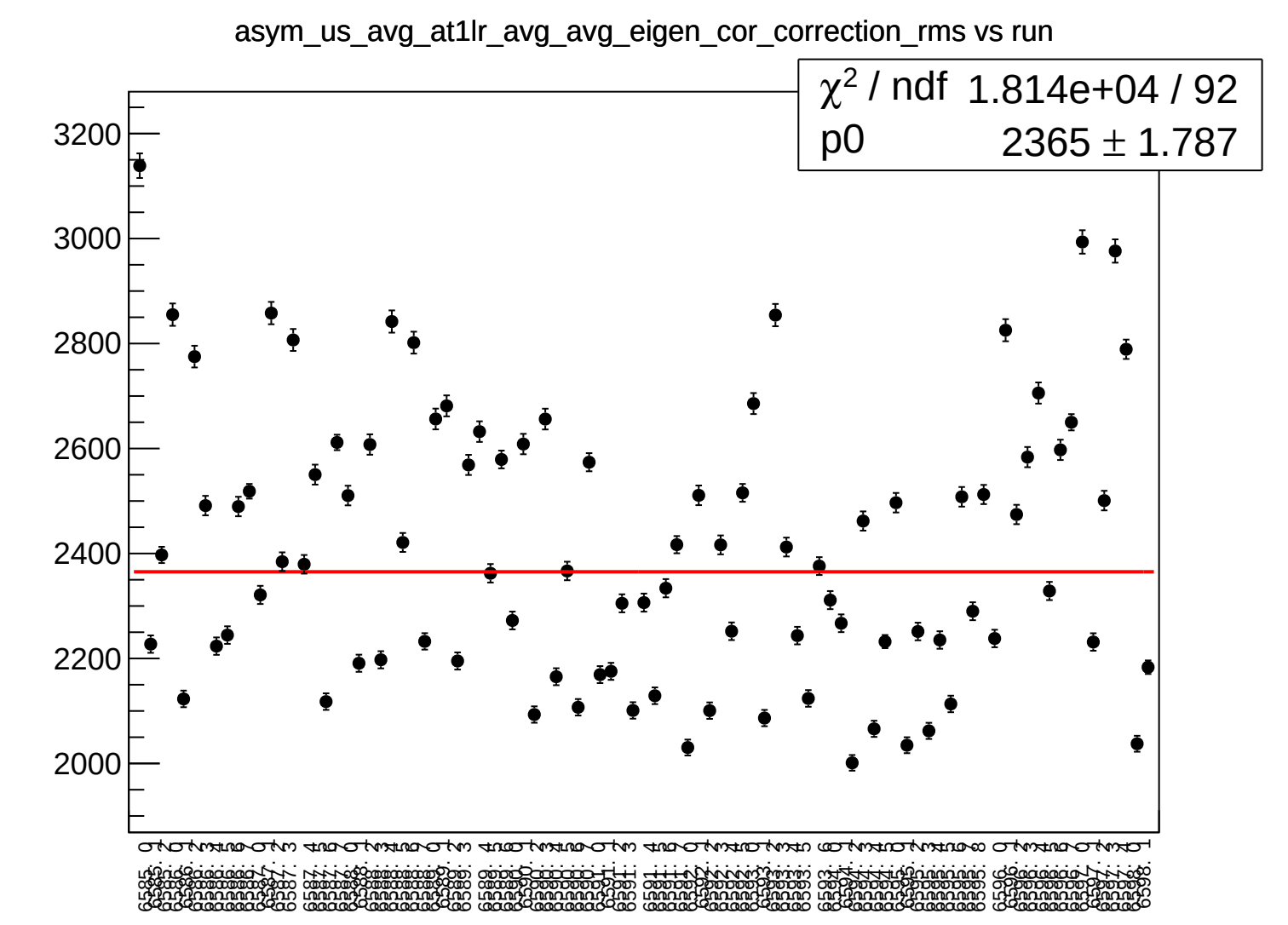

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.814e+04 / 92
p0 2365 ± 1.787
3200
3000
2800
2600
2400
2200
2000

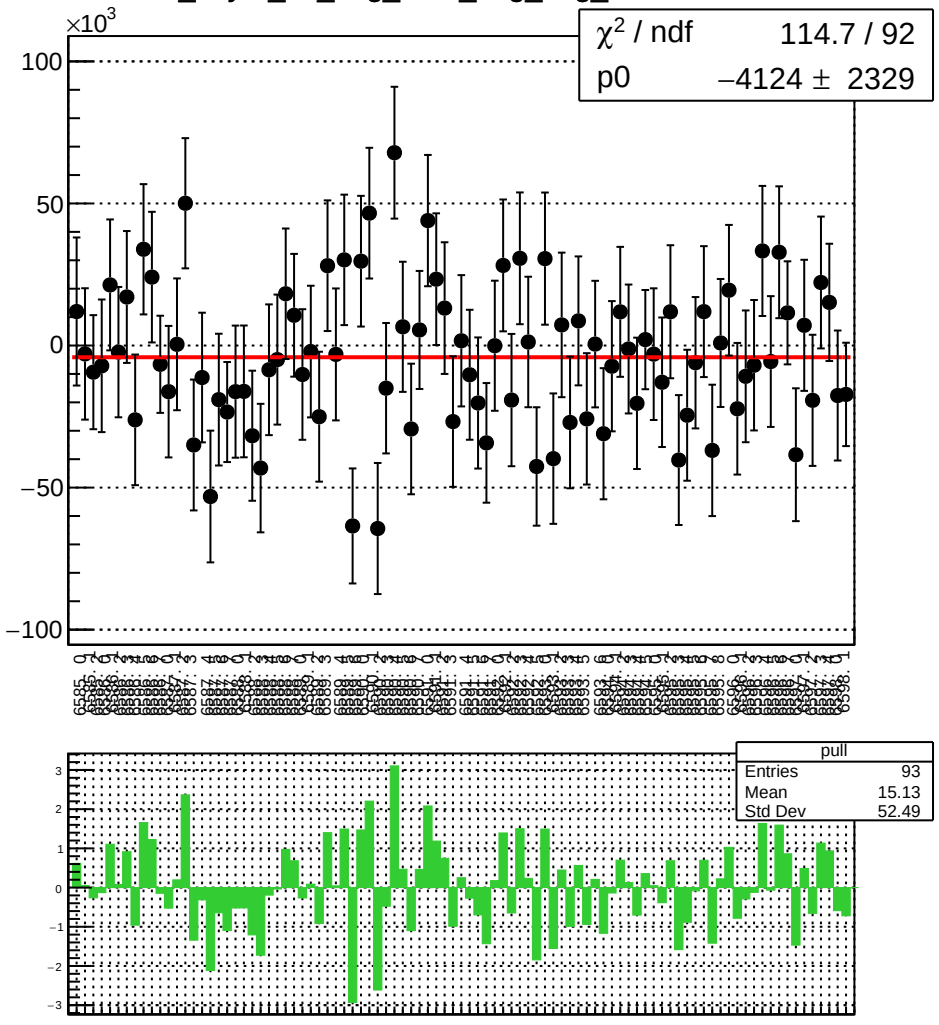

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 115.5 / 92
p0 −3783 ± 2322
100
50
0
−50
−100
pull
Entries 93
Mean 15.15
Std Dev 44.25
3
2
1
0
−1
−2
−3

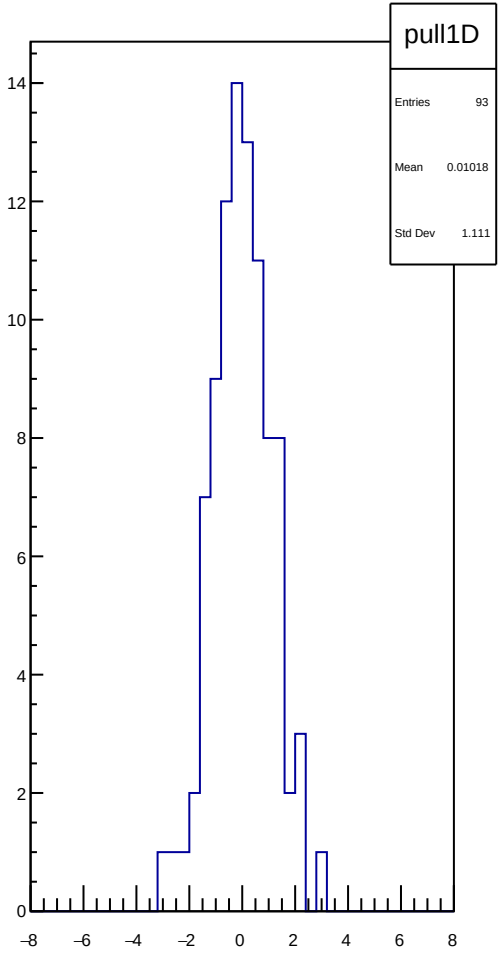

pull1D
Entries 93
Mean 0.009804
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

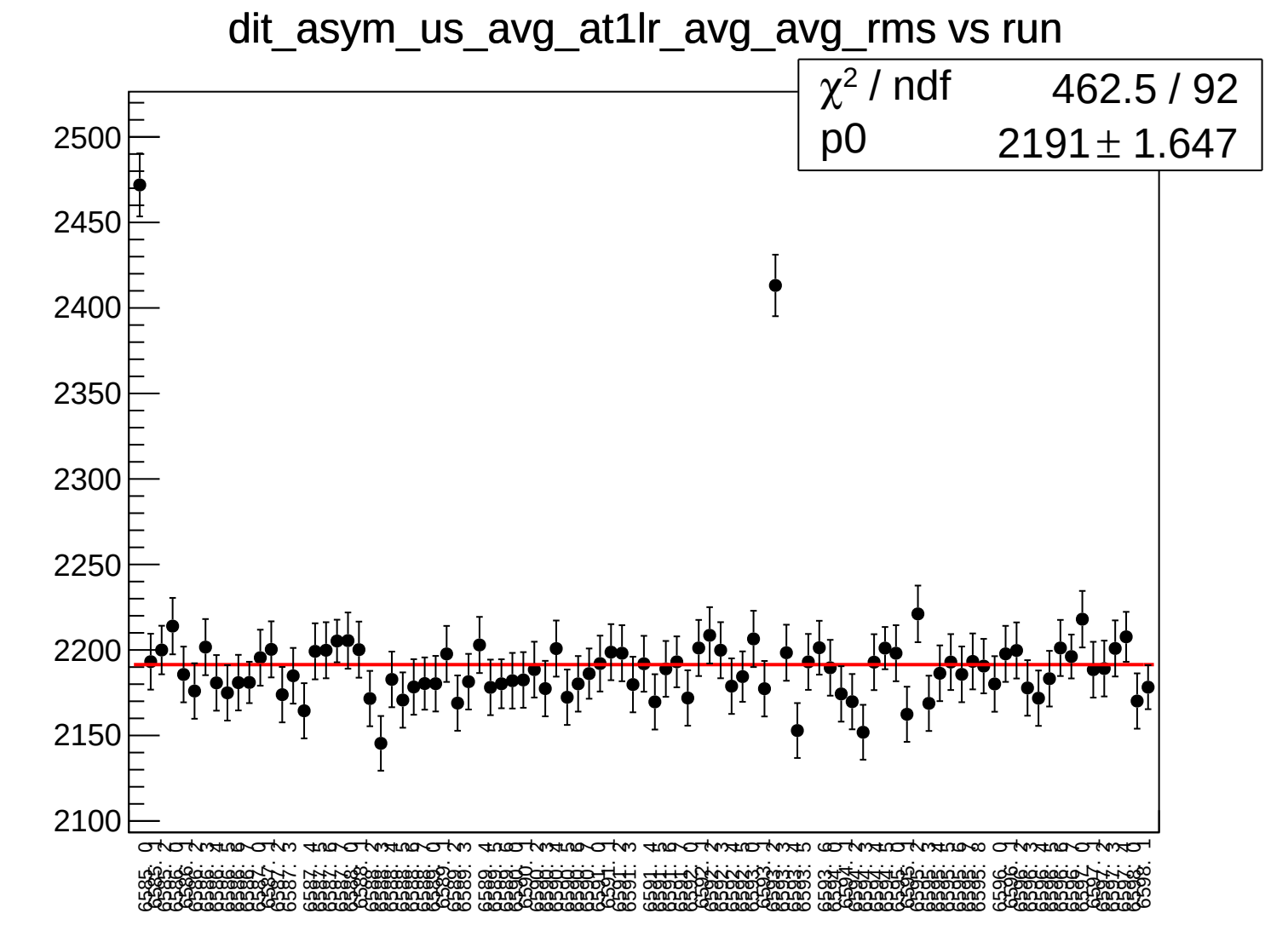

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 341.7 / 92
p0 2185 ± 1.642
2450
2400
2350
2300
2250
2200
2150
2100

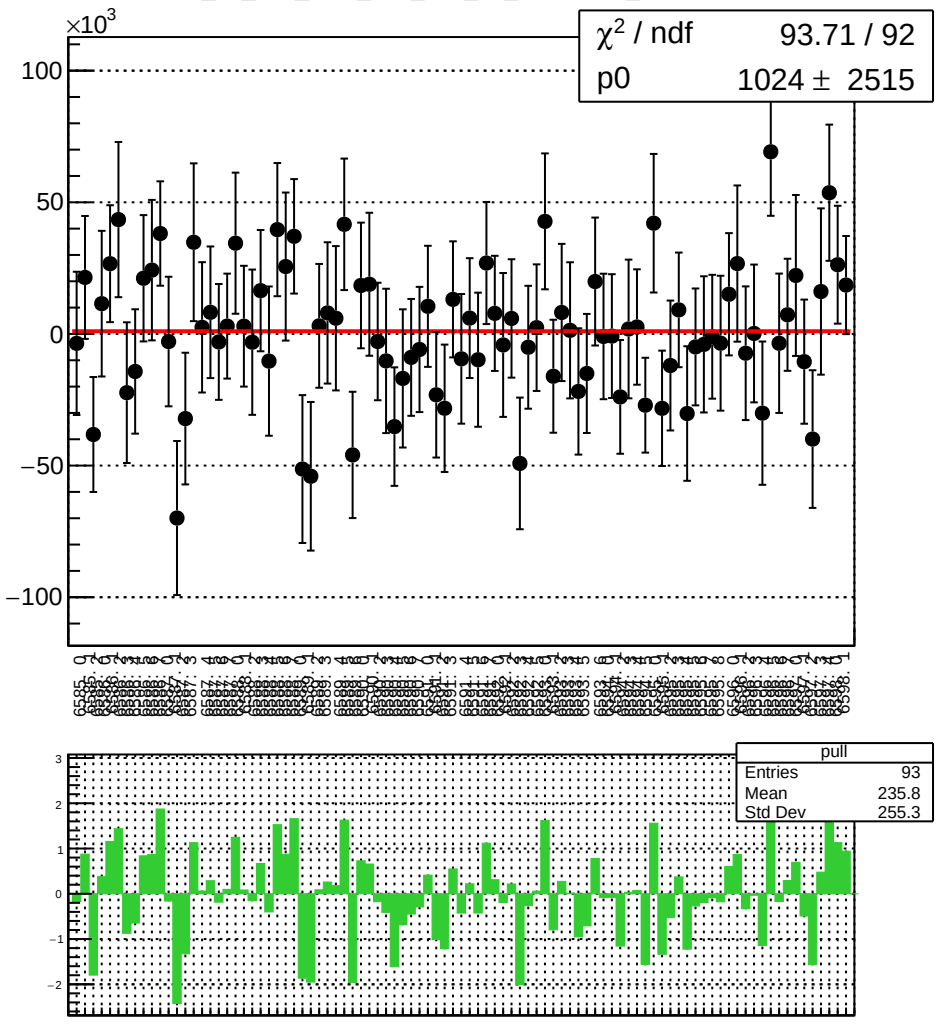

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.46 / 92
p0 1159 ± 2527
100
50
0
−50
−100
pull
Entries 93
Mean 81.38
Std Dev 151.6
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005043
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

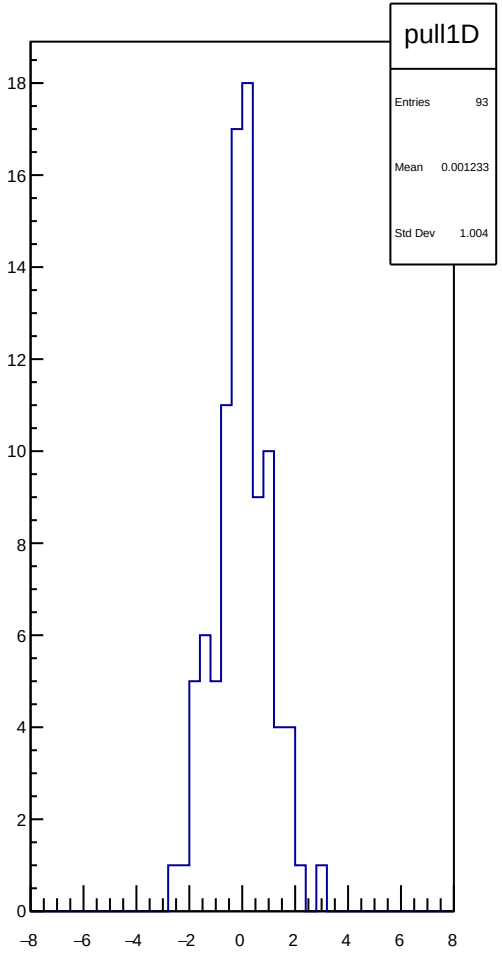

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.814e+04 / 92
p0 2365 ± 1.787
3200
3000
2800
2600
2400
2200
2000

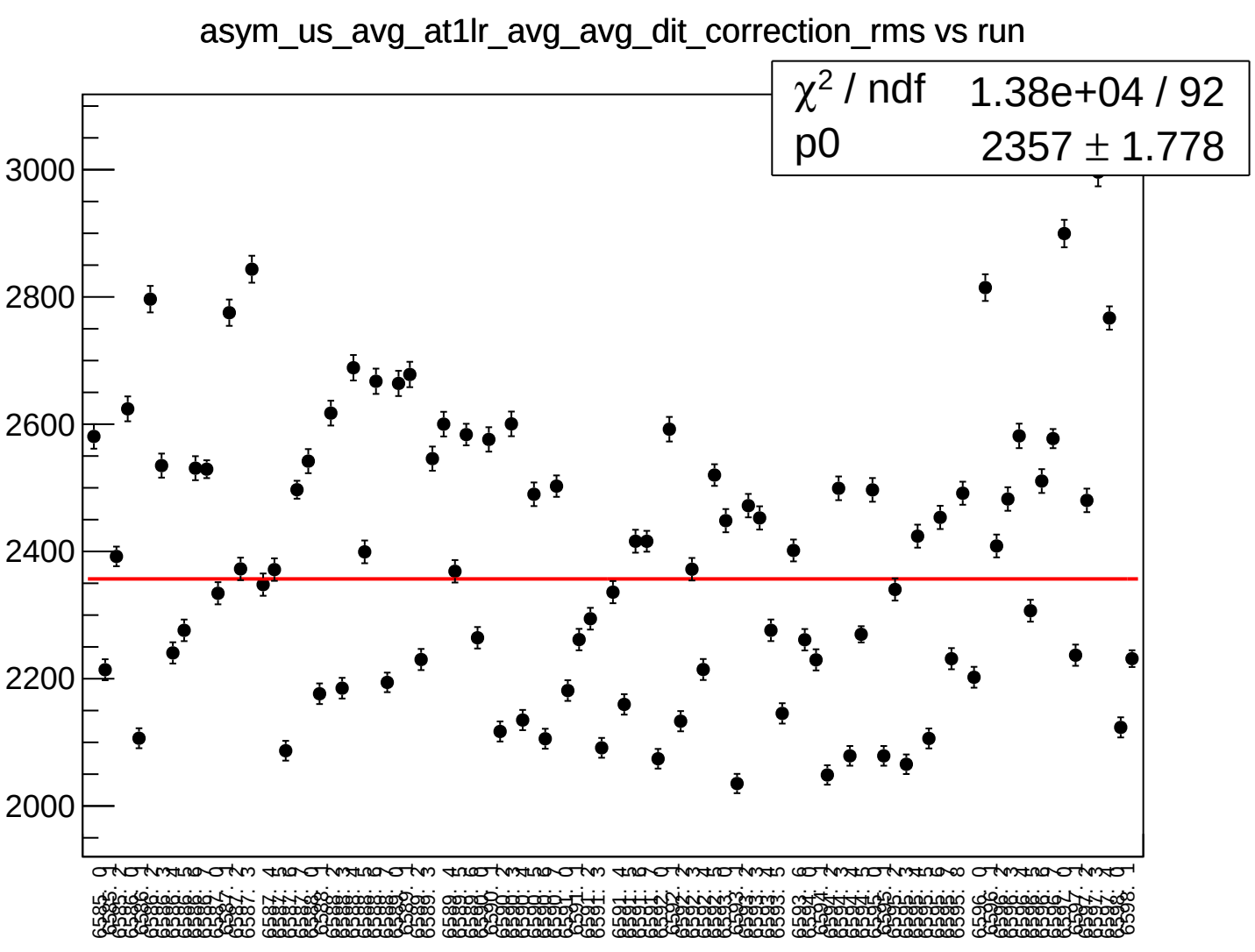

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 114.7 / 92
p0 −4124 ± 2329
100
50
0
−50
−100
pull
Entries 93
Mean 15.13
Std Dev 52.49
3
2
1
0
−1
−2
−3

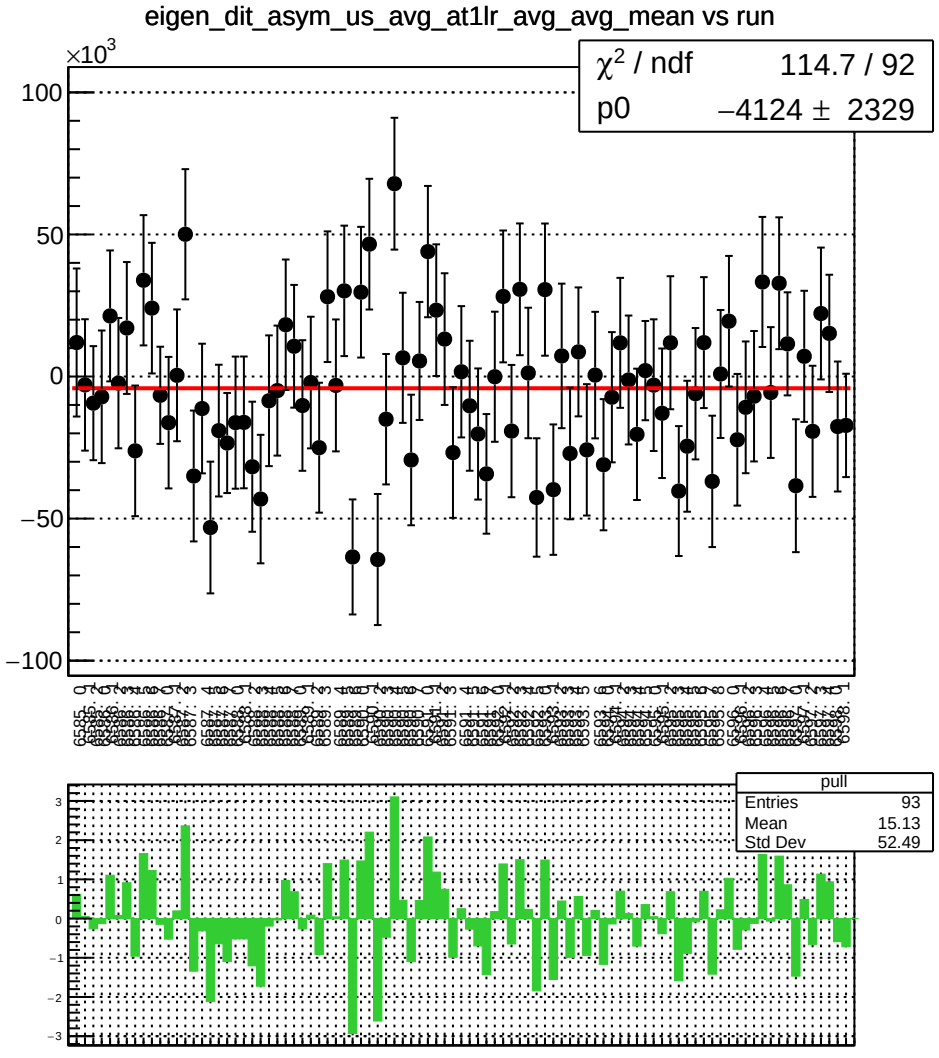

pull1D
Entries 93
Mean 0.01018
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

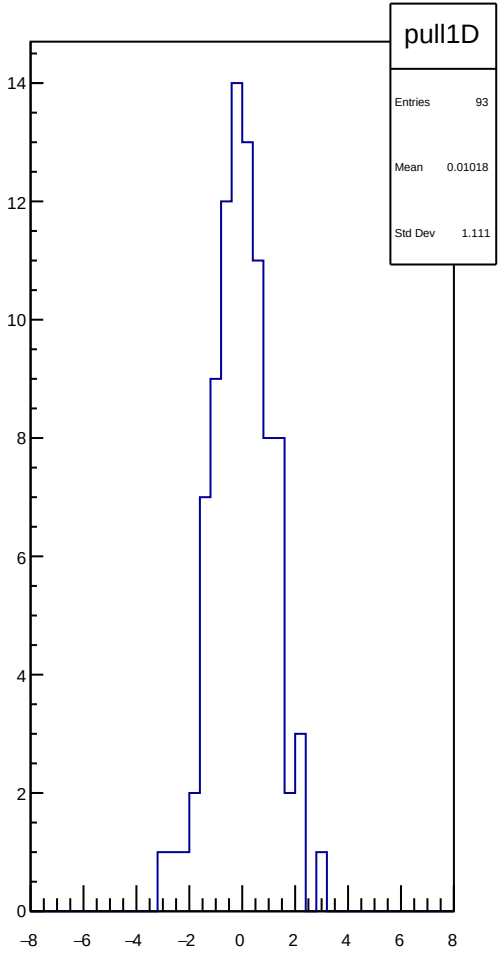

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 462.5 / 92
p0 2191 ± 1.647
2500
2450
2400
2350
2300
2250
2200
2150
2100

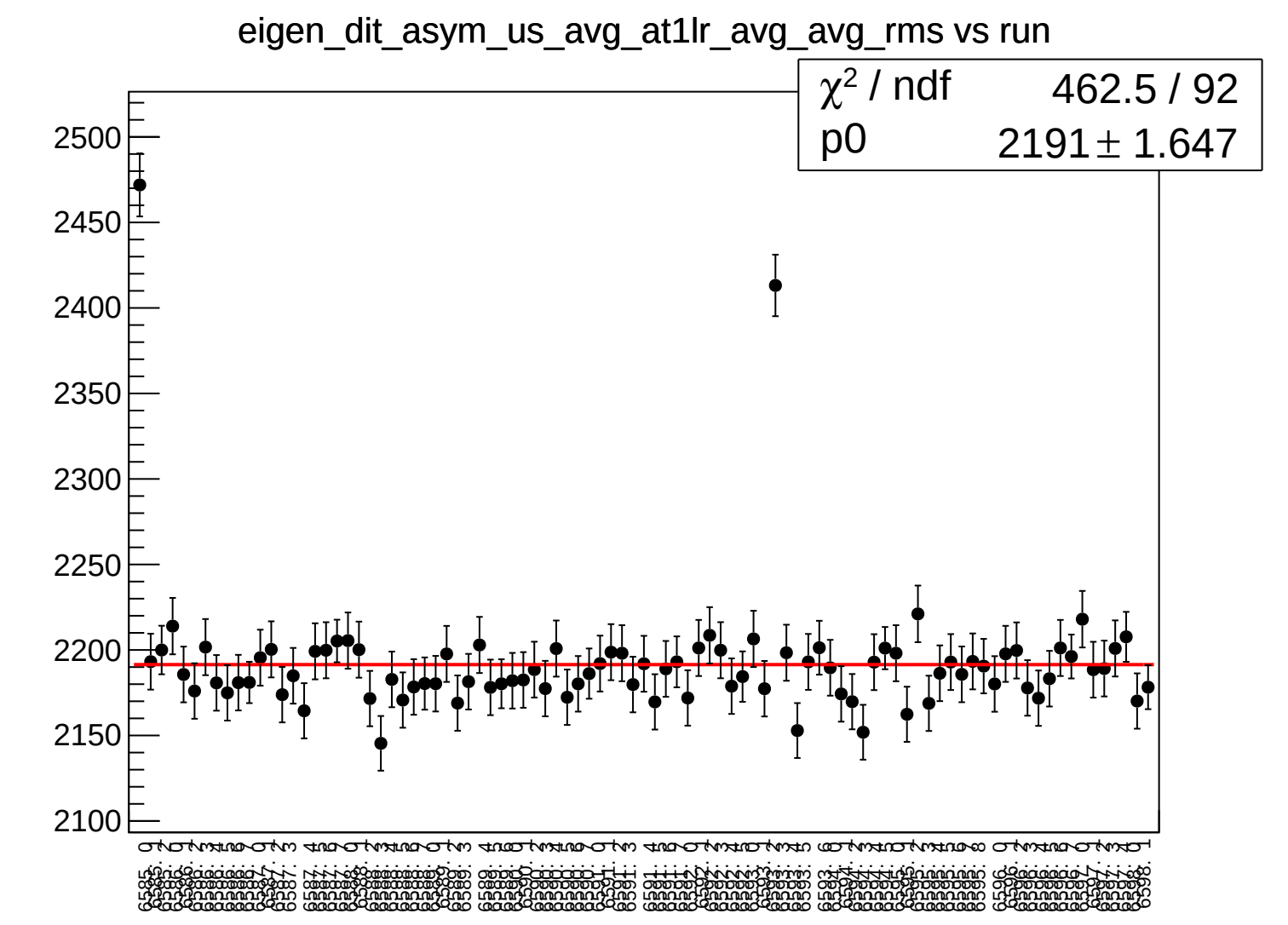

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 93.71 / 92
p0 1024 ± 2515
100
50
0
−50
−100
pull
Entries 93
Mean 235.8
Std Dev 255.3
3
2
1
0
−1
−2

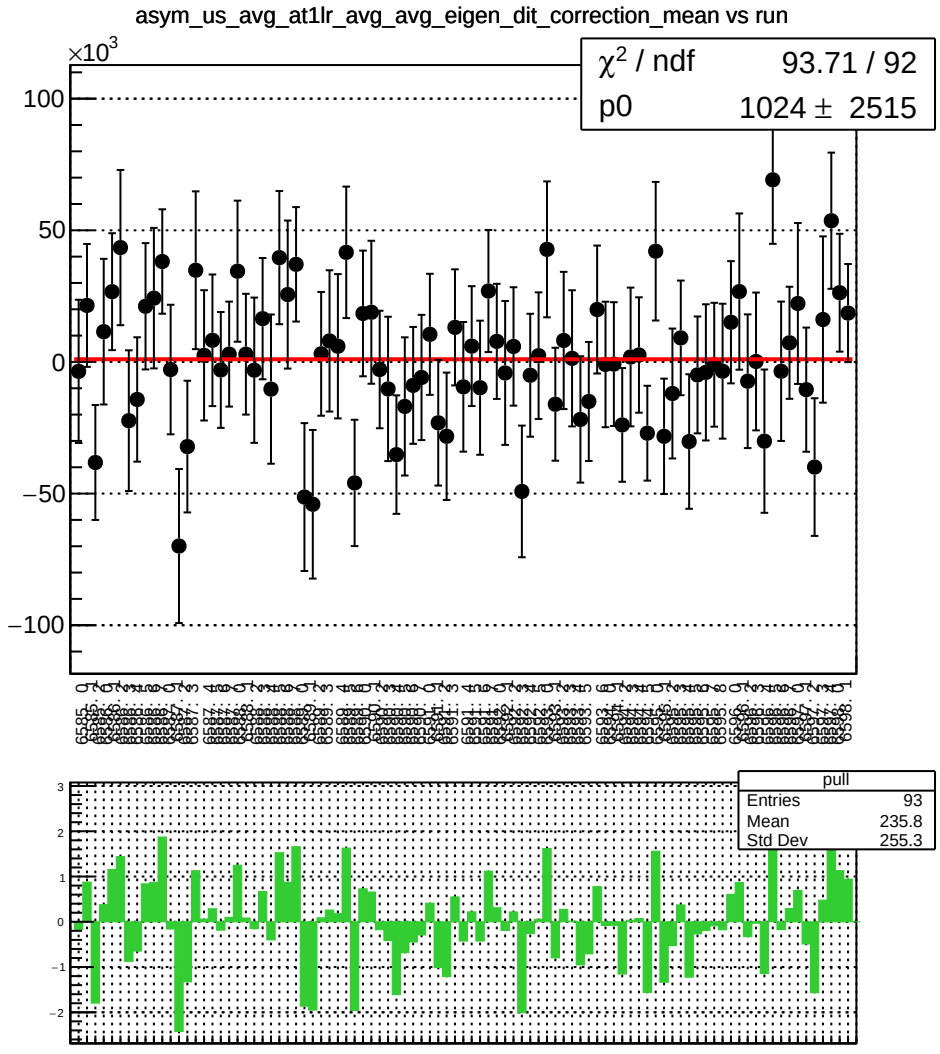

pull1D
Entries 93
Mean 0.001233
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

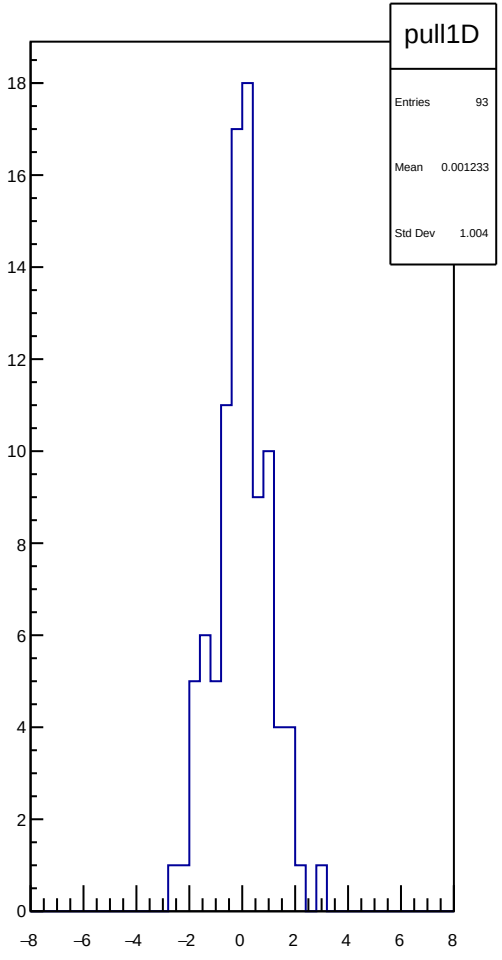

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.38e+04 / 92
p0 2357 ± 1.778
3000
2800
2600
2400
2200
2000

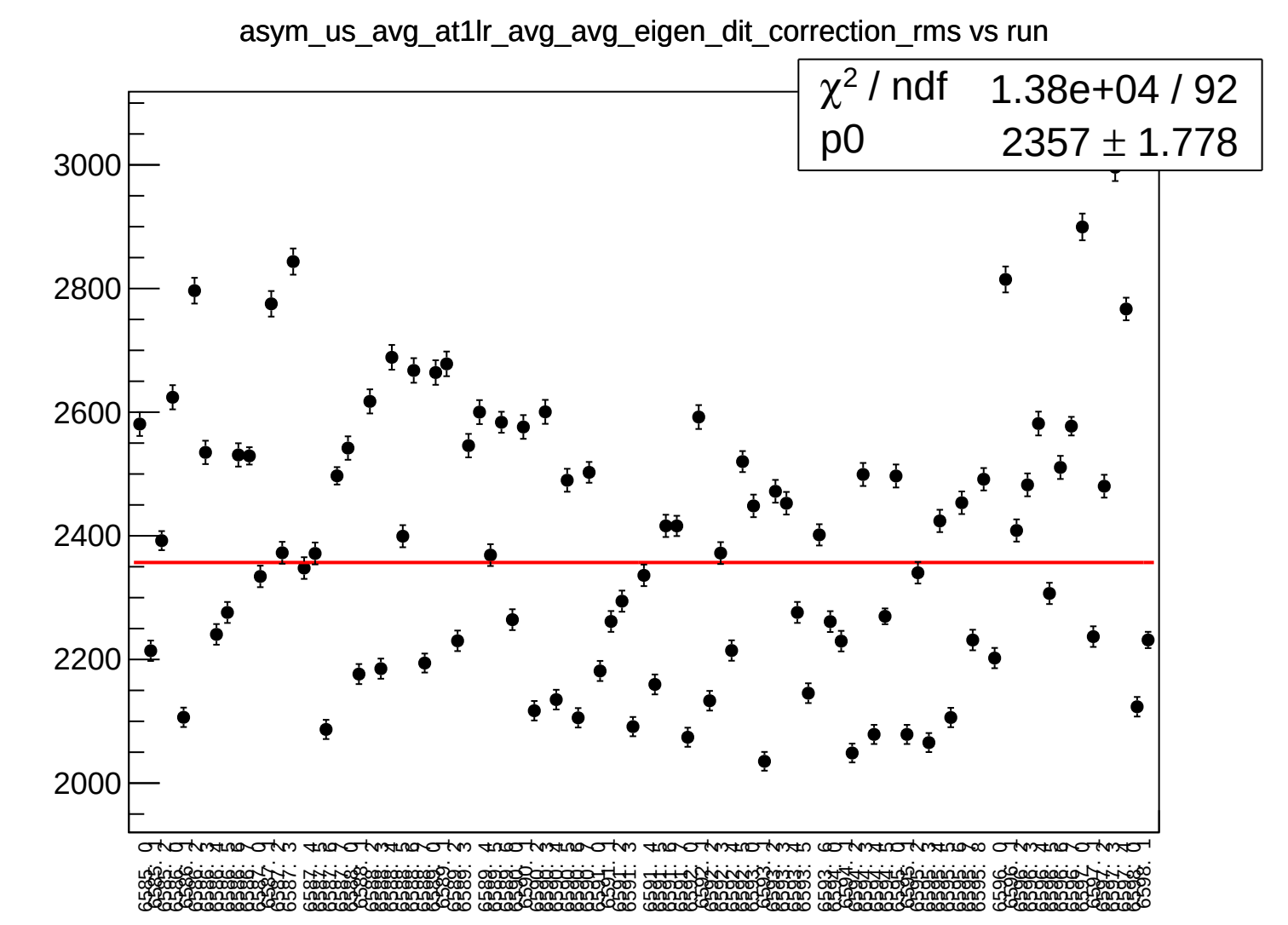

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 114.7 / 92
p0 −4124 ± 2329
100
50
0
−50
−100
pull
Entries 93
Mean 15.13
Std Dev 52.49
3
2
1
0
−1
−2
−3

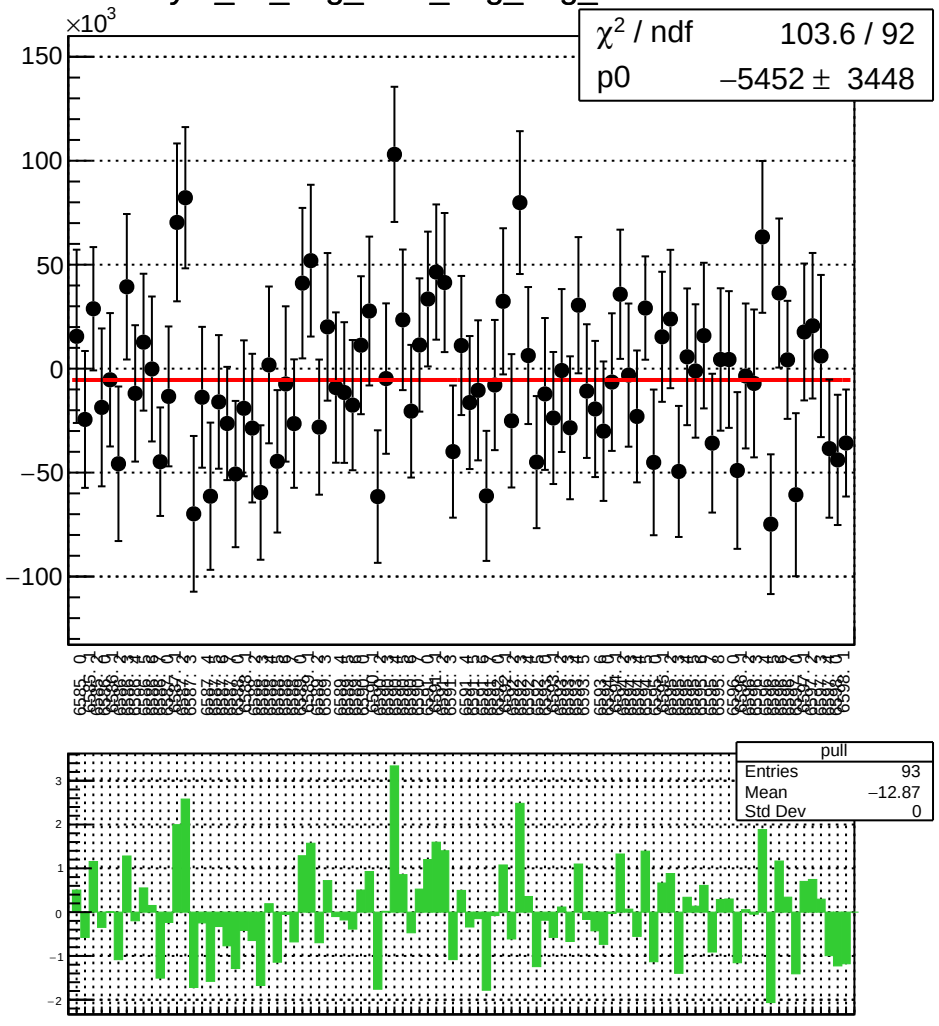

pull1D
Entries 93
Mean 0.01018
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

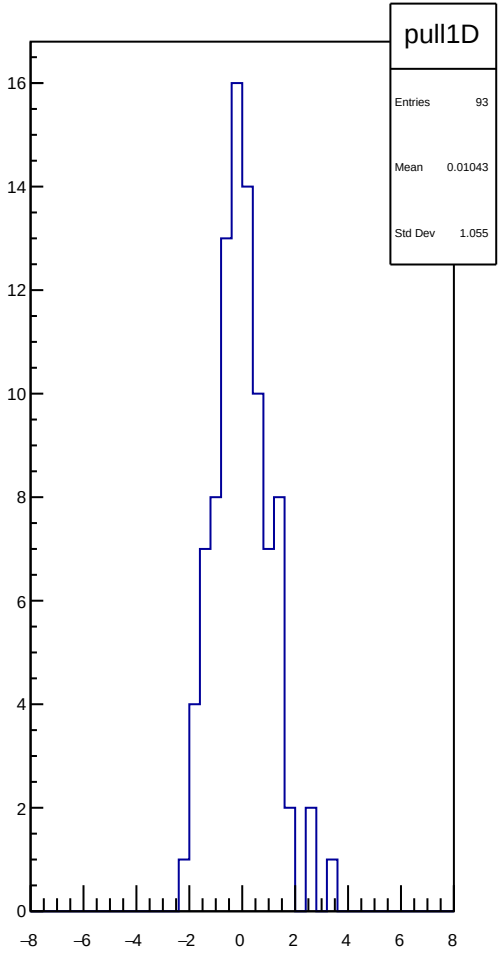

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 462.5 / 92
p0 2191 ± 1.647
2500
2450
2400
2350
2300
2250
2200
2150
2100

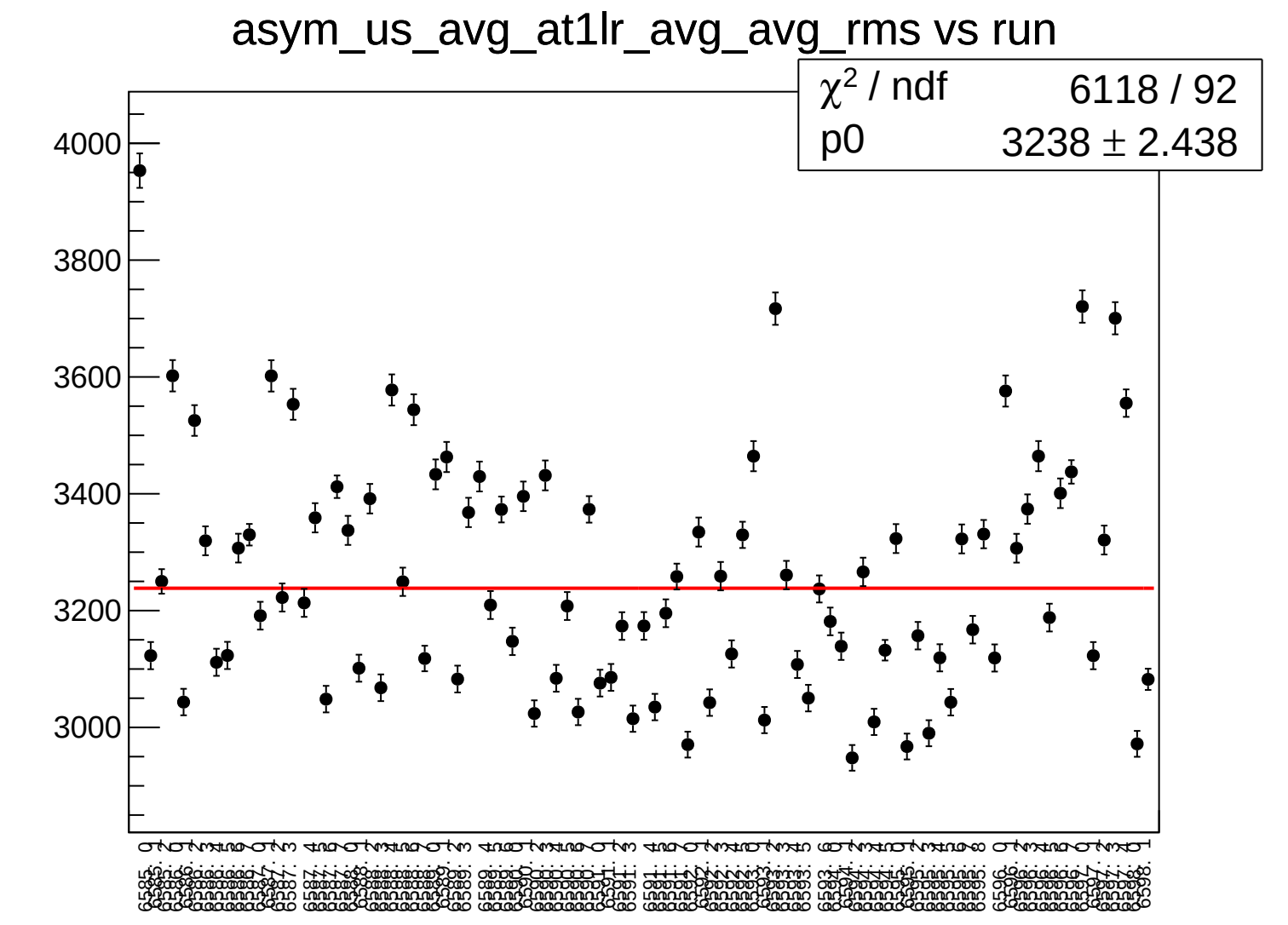

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.71 / 92
p0 1024 ± 2515
100
50
0
−50
−100
pull
Entries 93
Mean 235.8
Std Dev 255.3
3
2
1
0
−1
−2

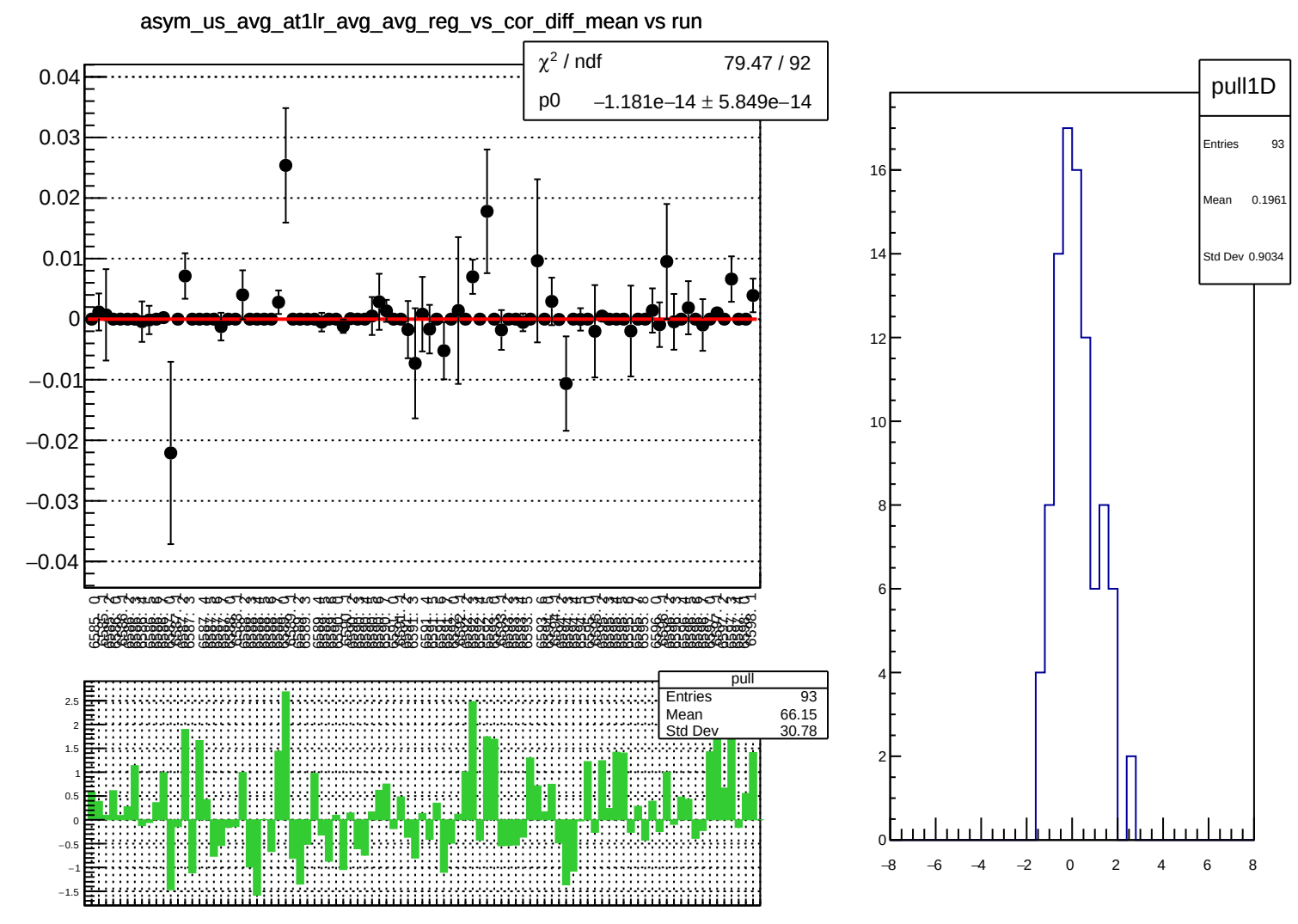

pull1D
Entries 93
Mean 0.001233
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

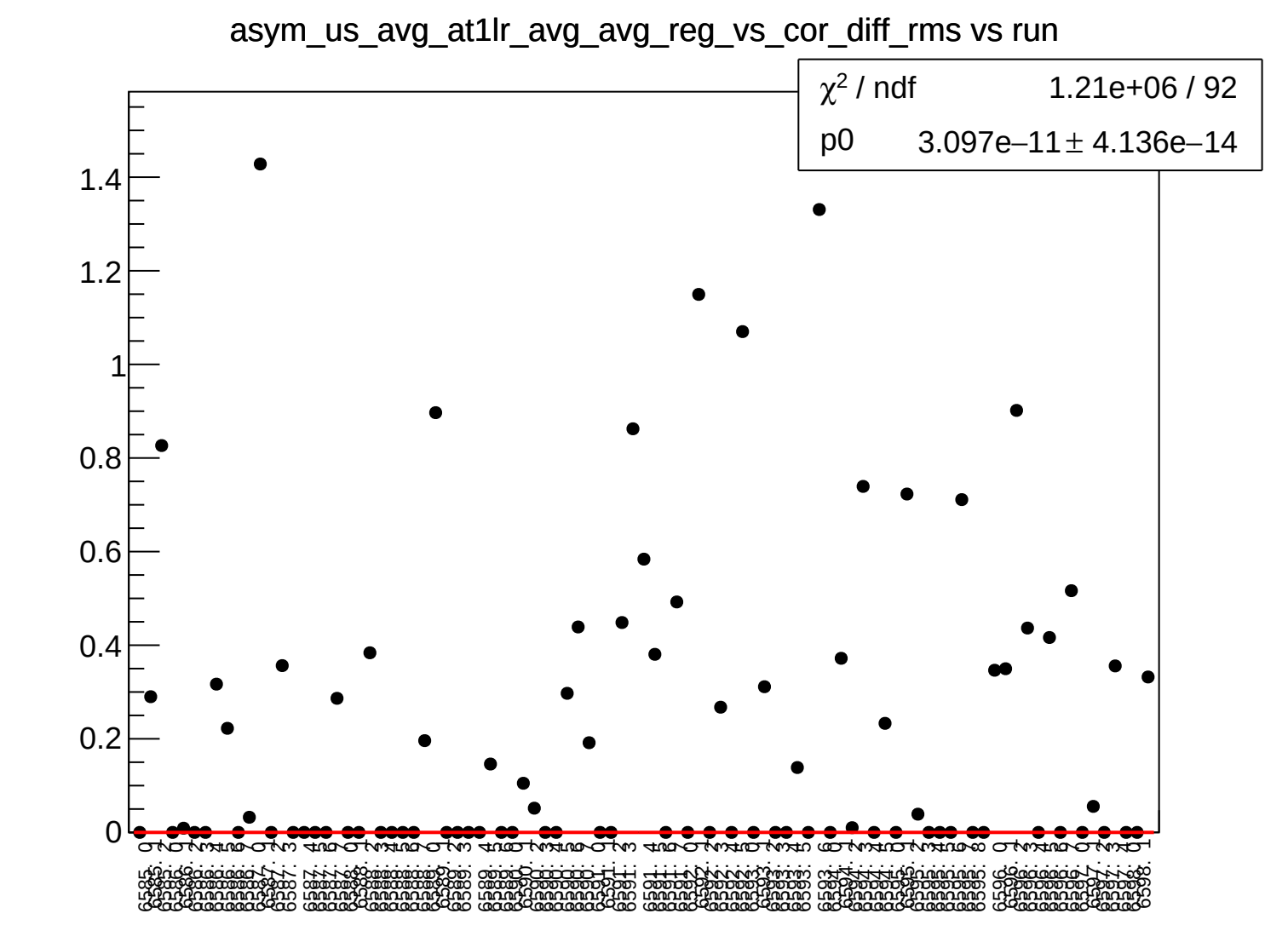

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.38e+04 / 92
p0 2357 ± 1.778
3000
2800
2600
2400
2200
2000

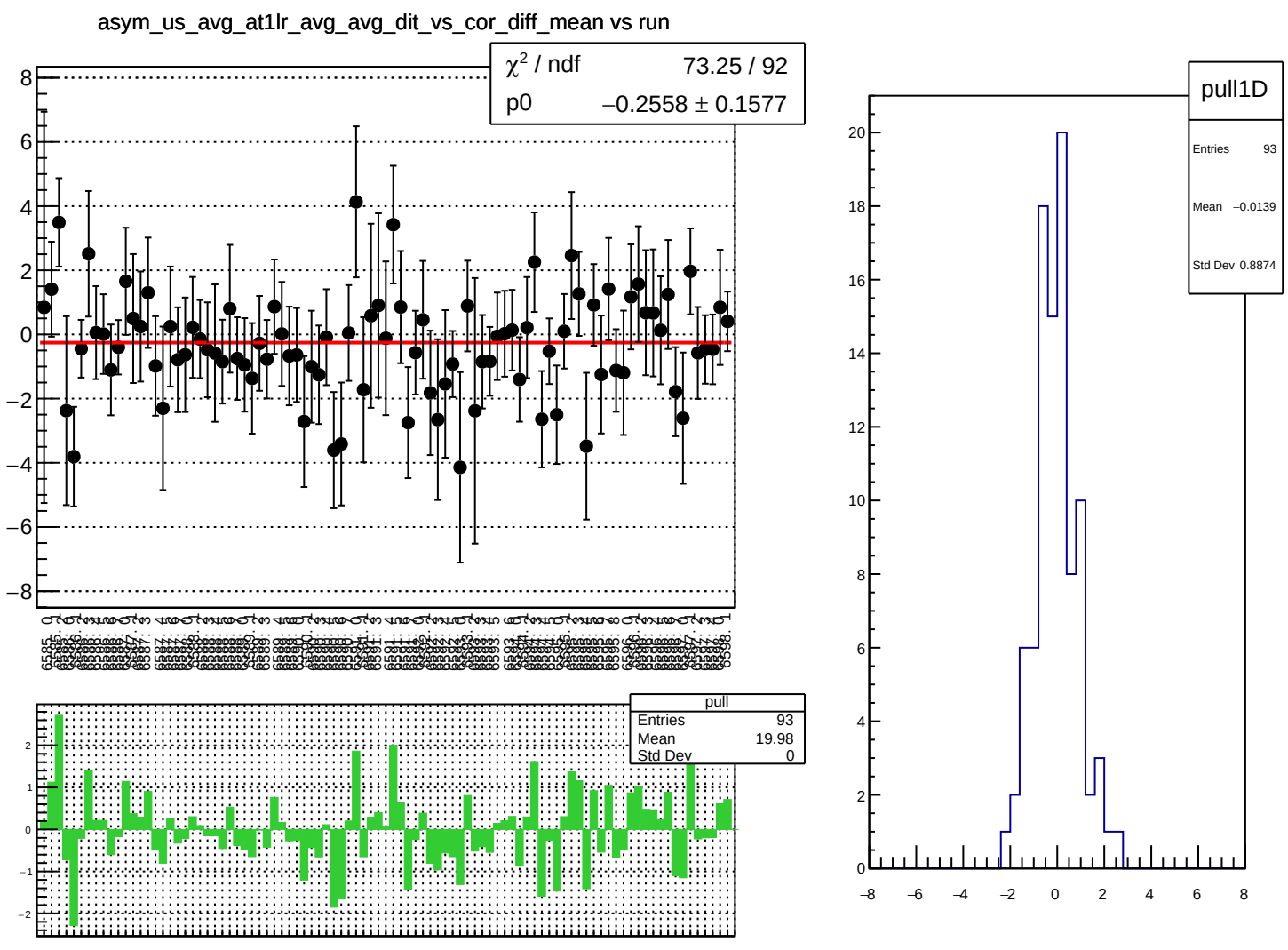

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 103.6 / 92
p0 −5452 ± 3448
150
100
50
0
−50
−100
pull
Entries 93
Mean −12.87
Std Dev 0
3
2
1
0
−1
−2

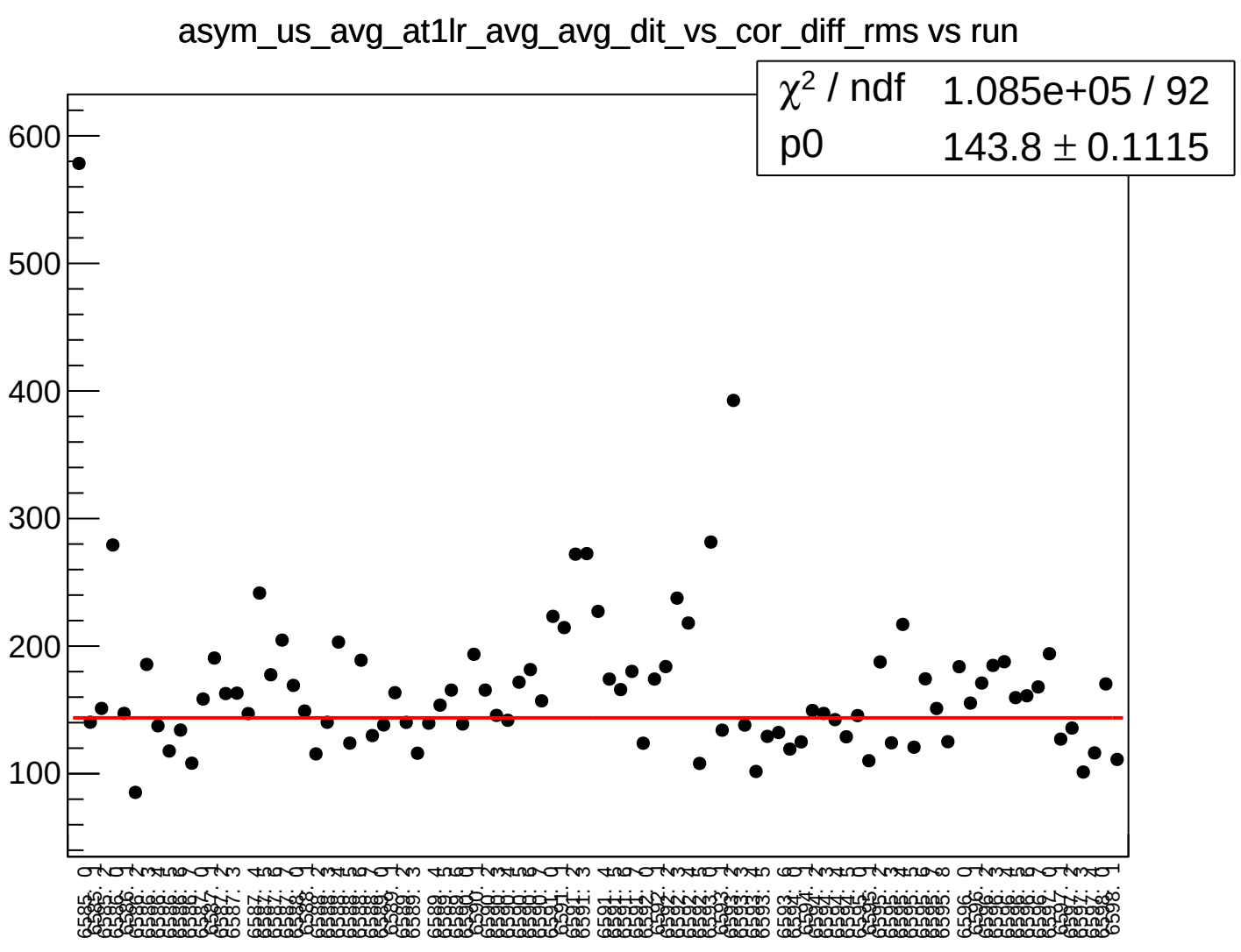

pull1D
Entries 93
Mean 0.01043
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

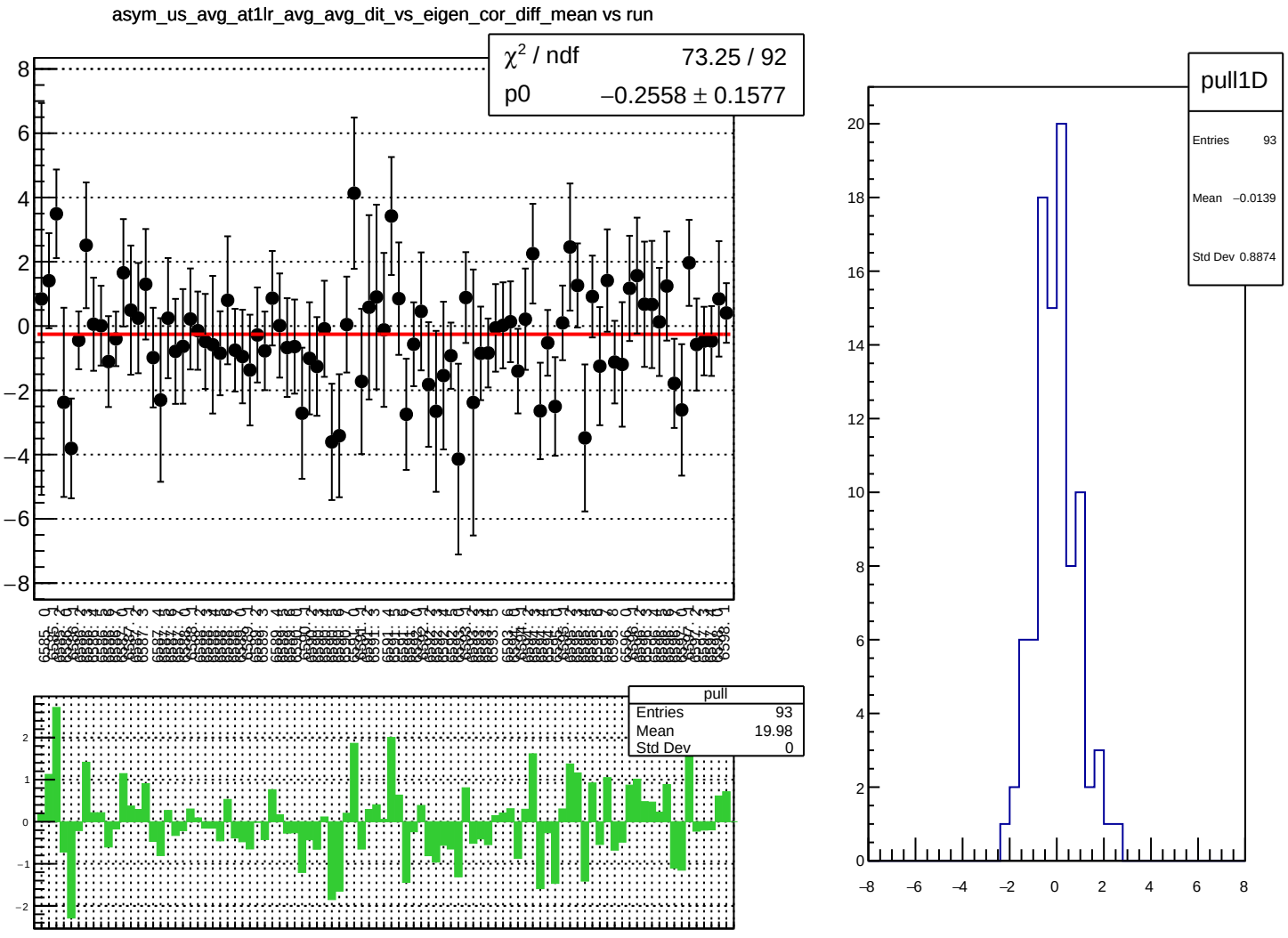

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 6118 / 92
p0 3238 ± 2.438
4000
3800
3600
3400
3200
3000

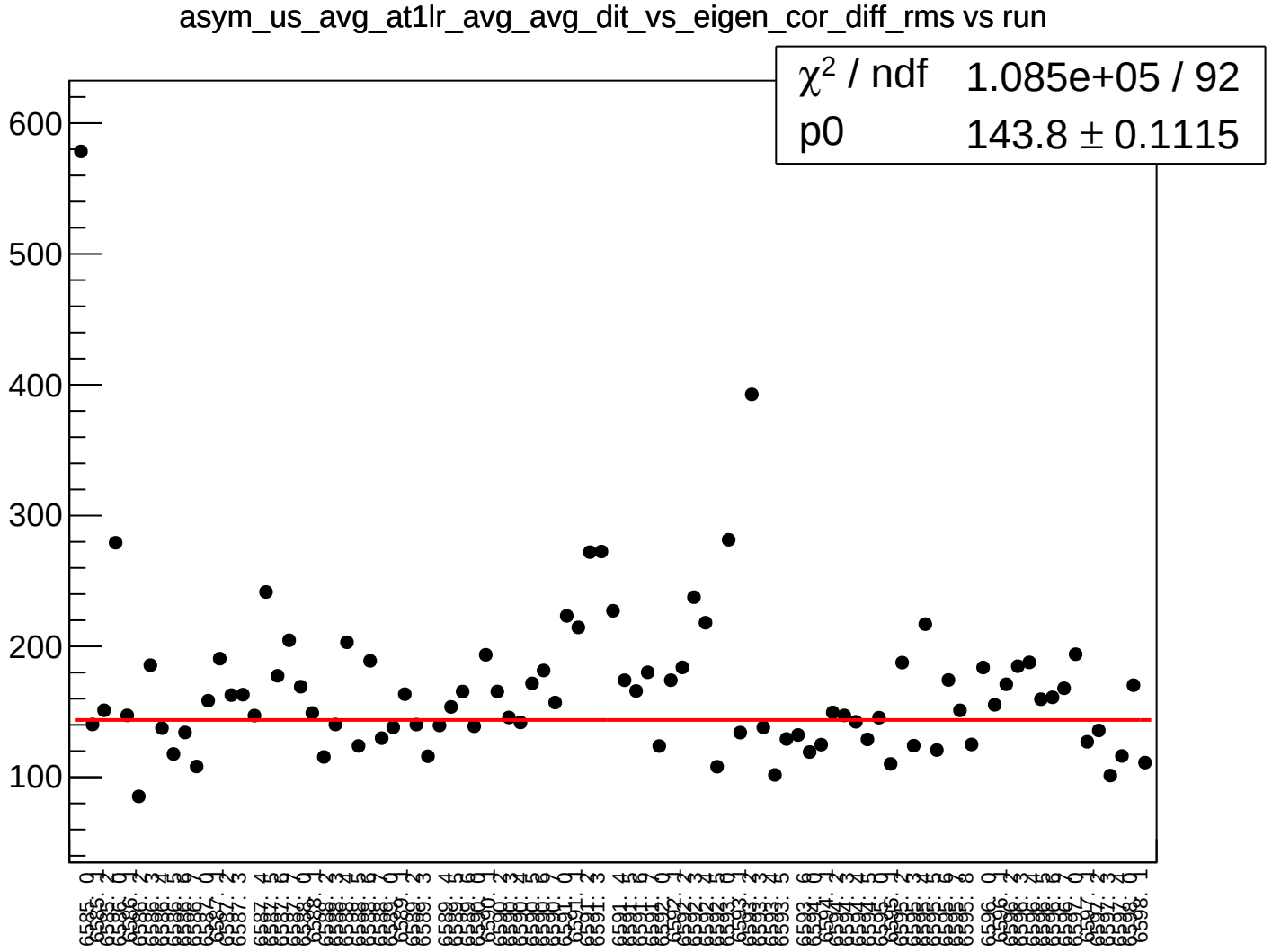

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.47 / 92
p0 −1.181e−14 ± 5.849e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 93
Mean 66.15
Std Dev 30.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.1961
Std Dev 0.9034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

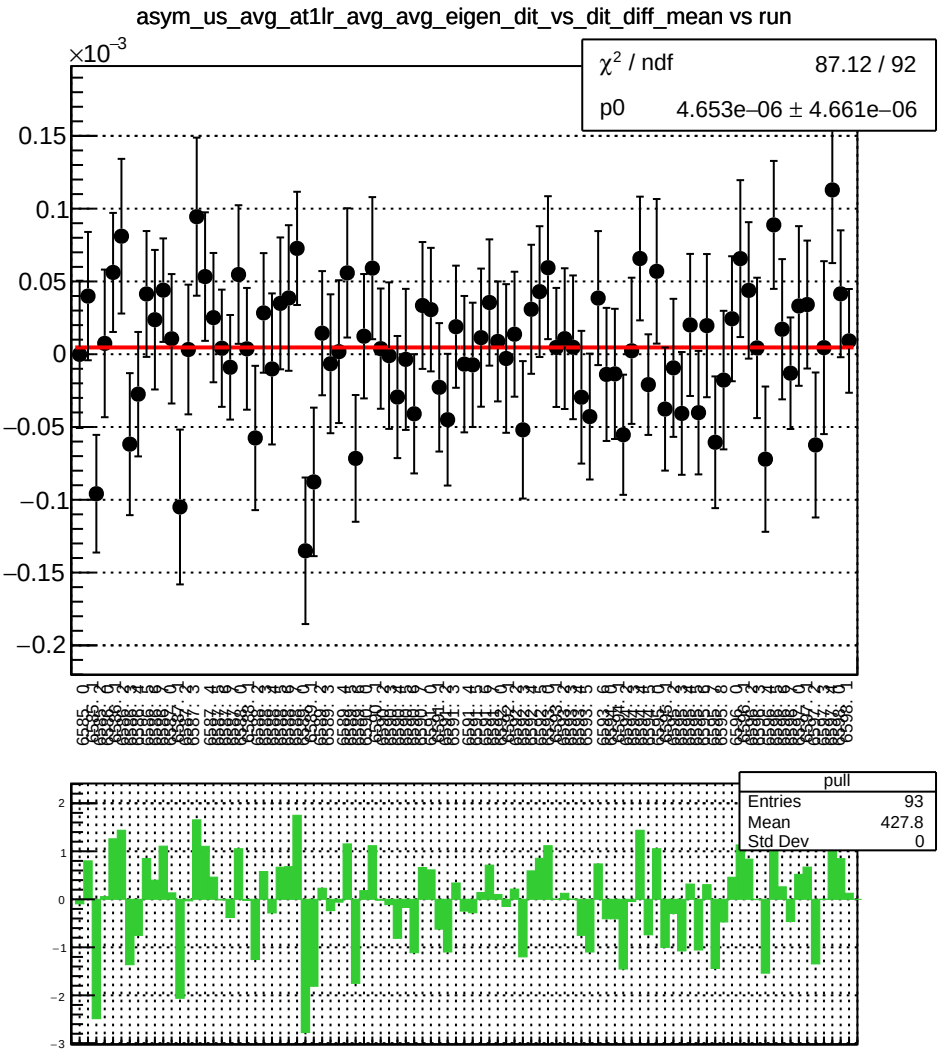

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.21e+06 / 92
p0 3.097e−11 ± 4.136e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

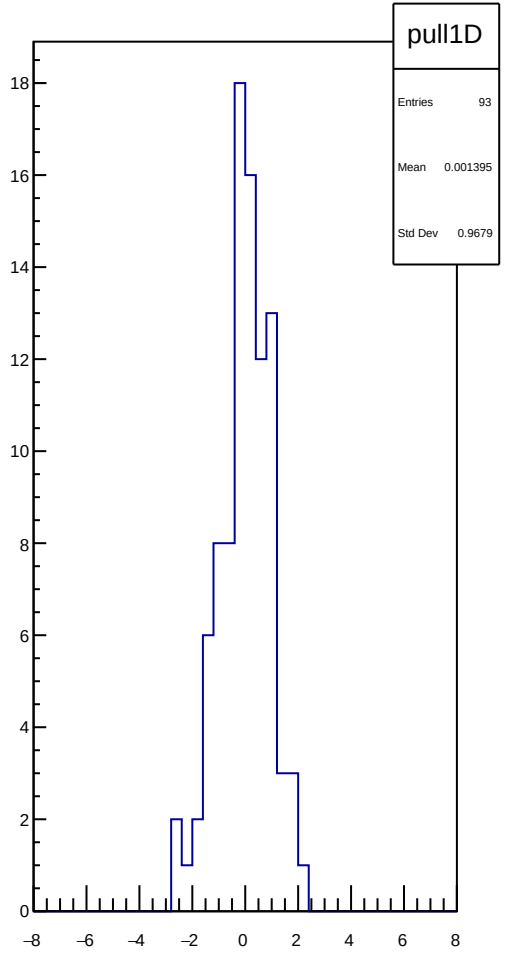

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.25 / 92
p0 −0.2558 ± 0.1577
pull
Entries 93
Mean 19.98
Std Dev 0
pull1D
Entries 93
Mean −0.0139
Std Dev 0.8874

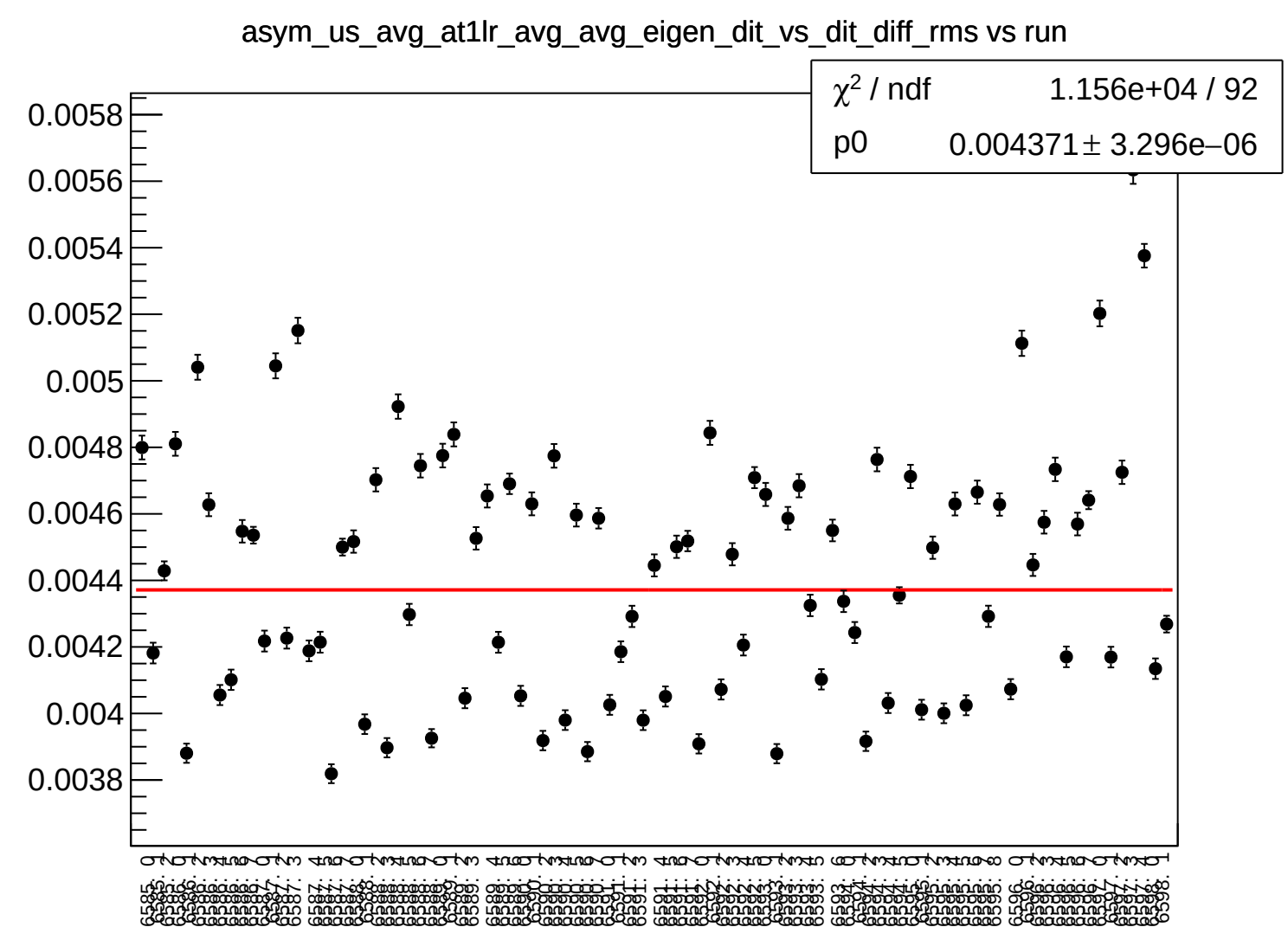

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.085e+05 / 92
p0 143.8 ± 0.1115
600
500
400
300
200
100

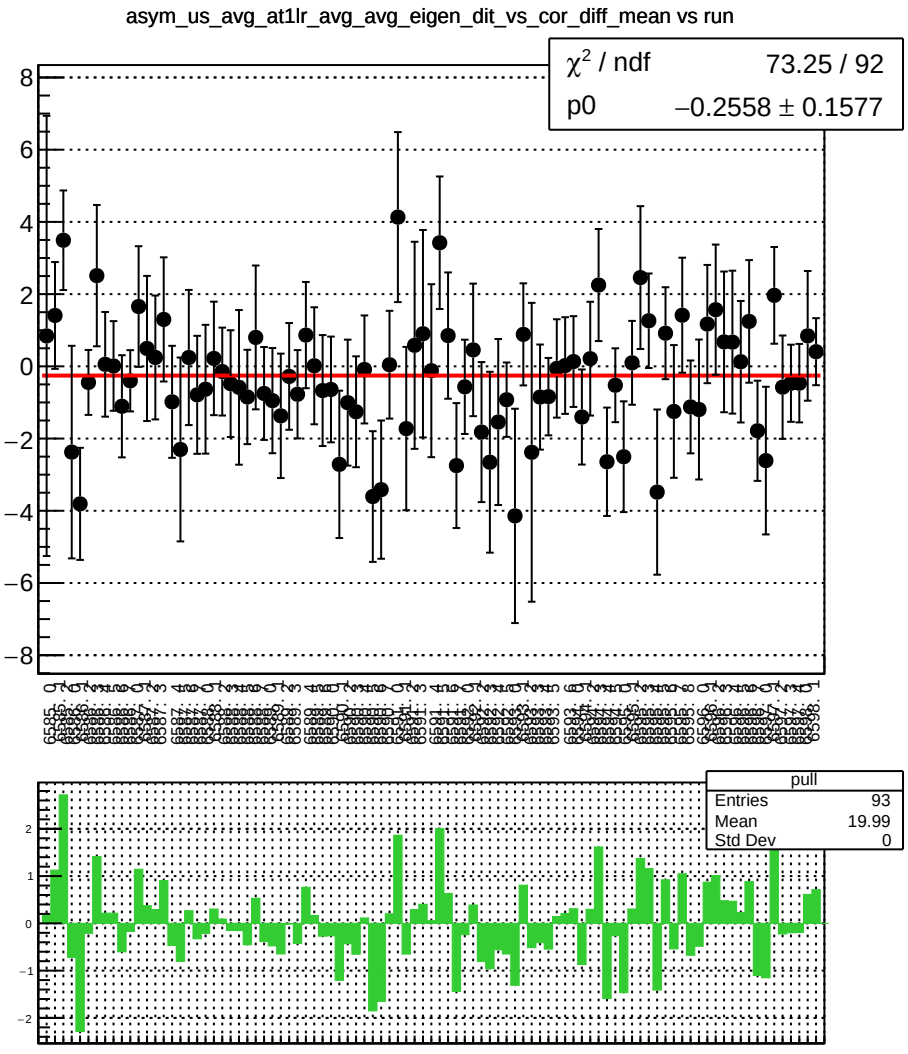

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.25 / 92
p0 −0.2558 ± 0.1577
pull
Entries 93
Mean 19.98
Std Dev 0
pull1D
Entries 93
Mean −0.0139
Std Dev 0.8874

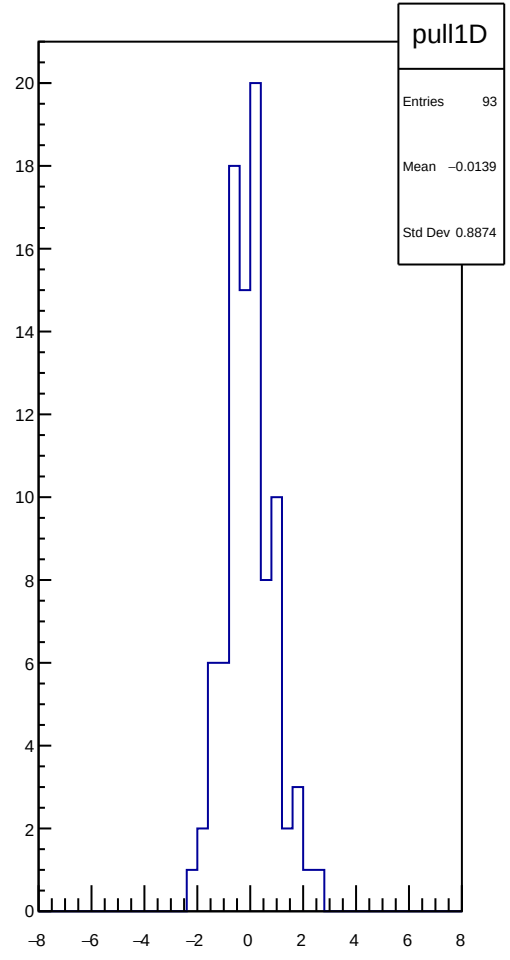

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.085e+05 / 92
p0 143.8 ± 0.1115
600
500
400
300
200
100

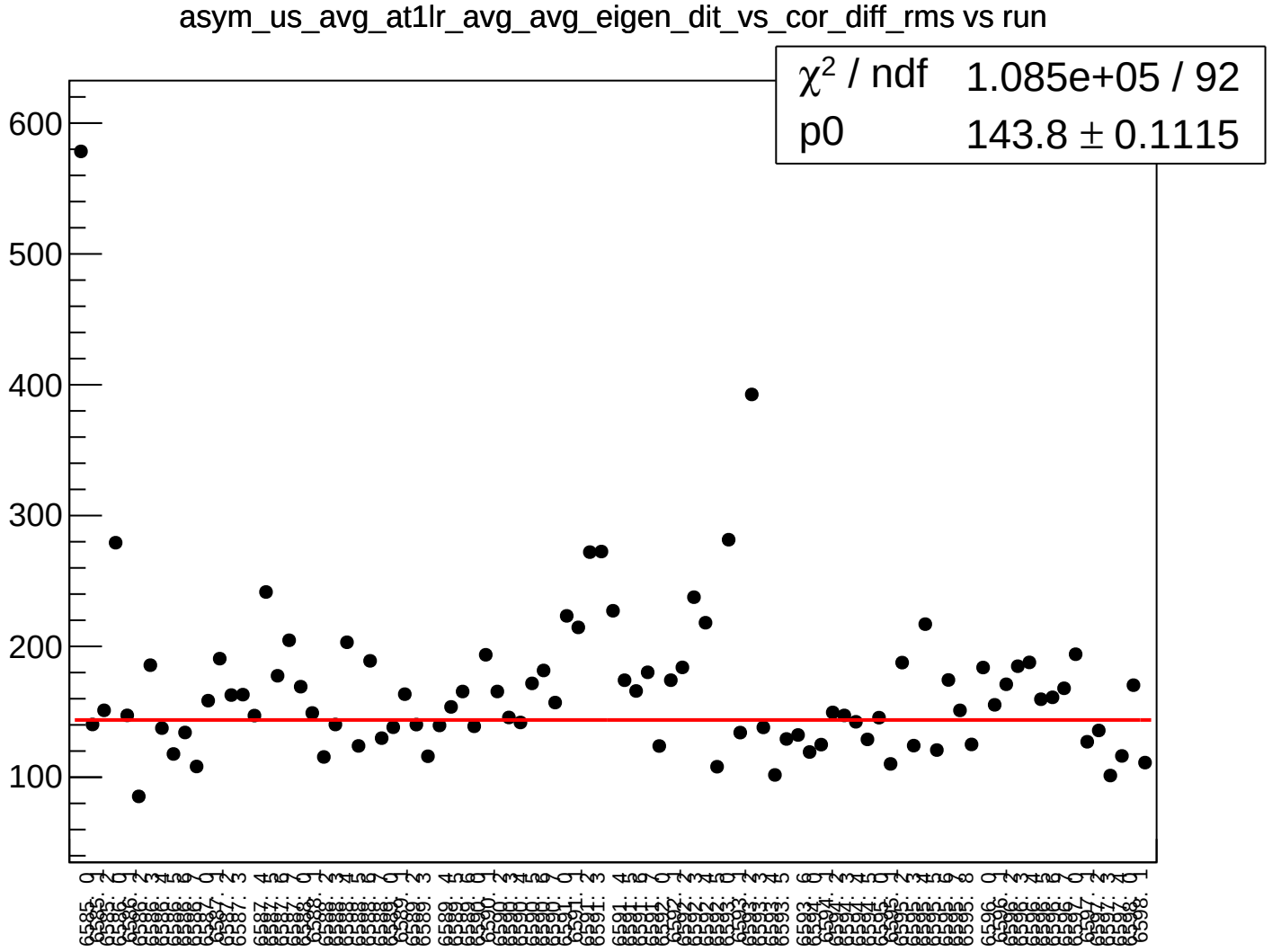

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.12 / 92
p0 4.653e−06 ± 4.661e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 93
Mean 427.8
Std Dev 0
2
1
0
−1
−2
−3

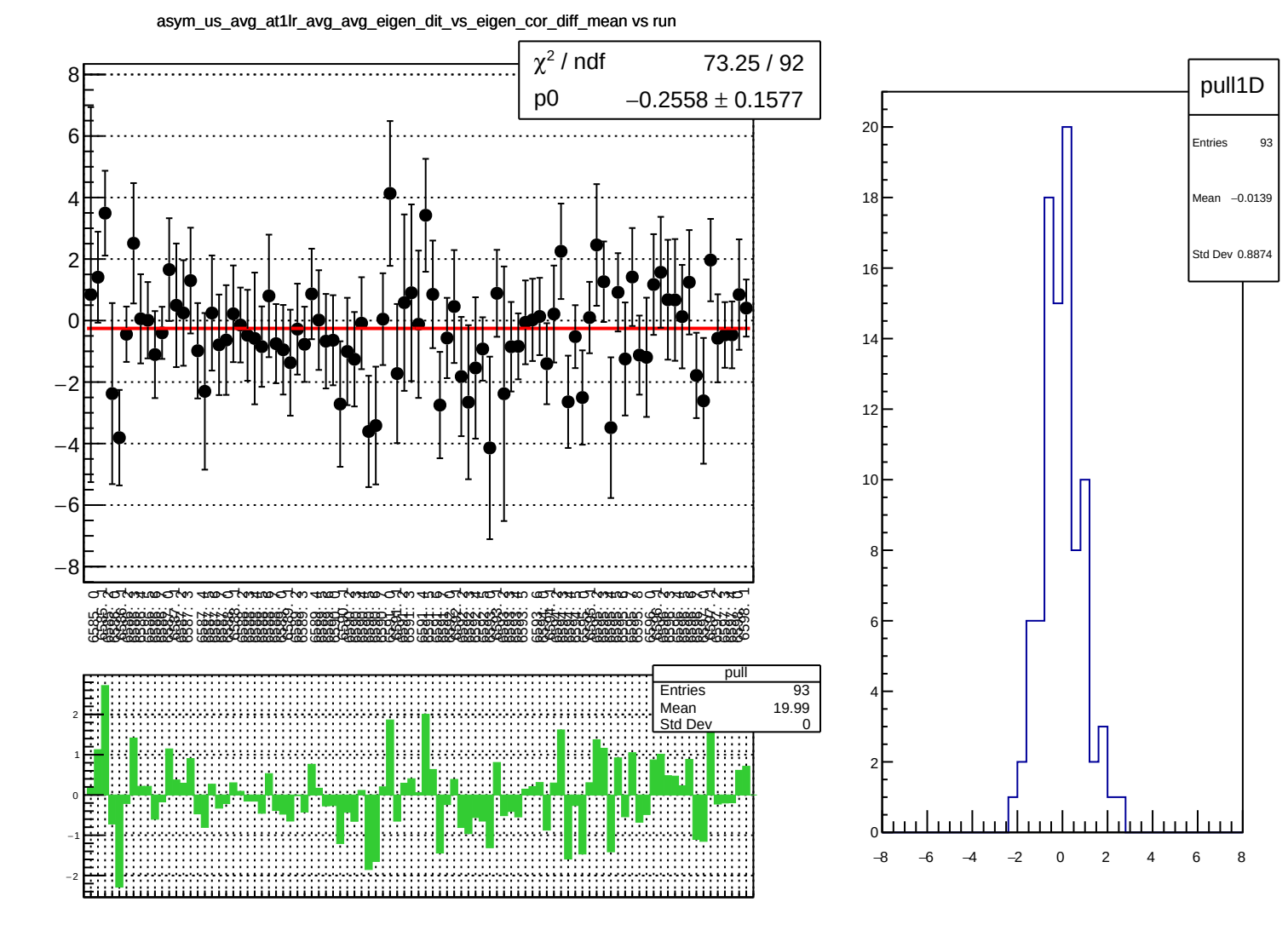

pull1D
Entries 93
Mean 0.001395
Std Dev 0.9679
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

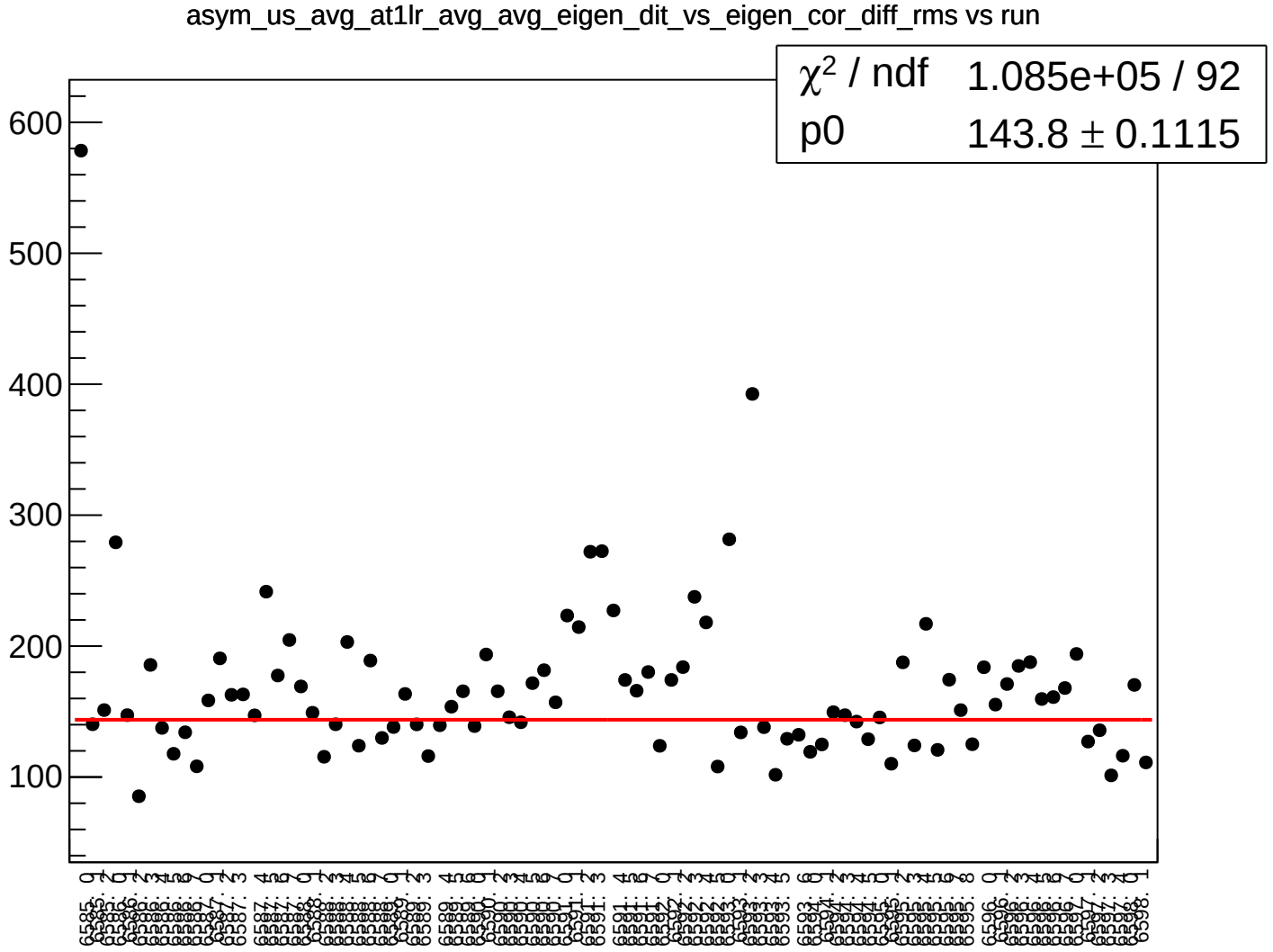

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.156e+04 / 92
p0 0.004371 ± 3.296e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

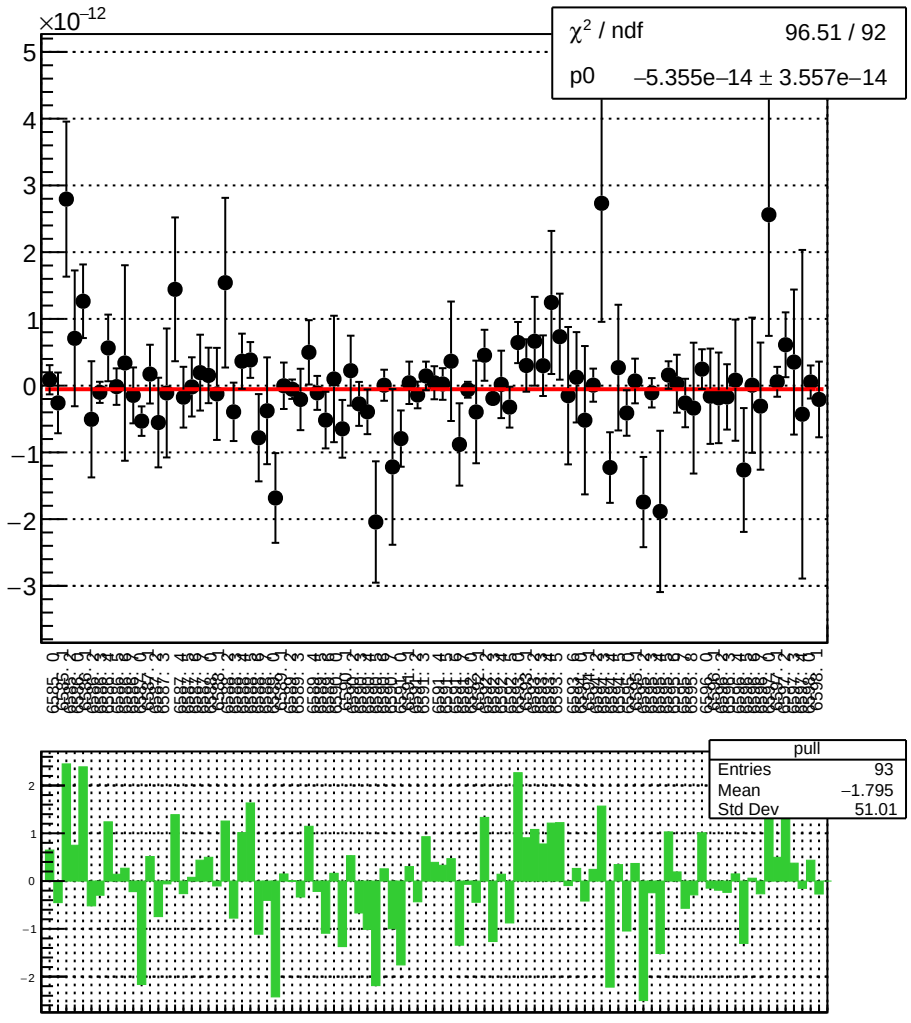

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.25 / 92
p0 −0.2558 ± 0.1577
pull
Entries 93
Mean 19.99
Std Dev 0

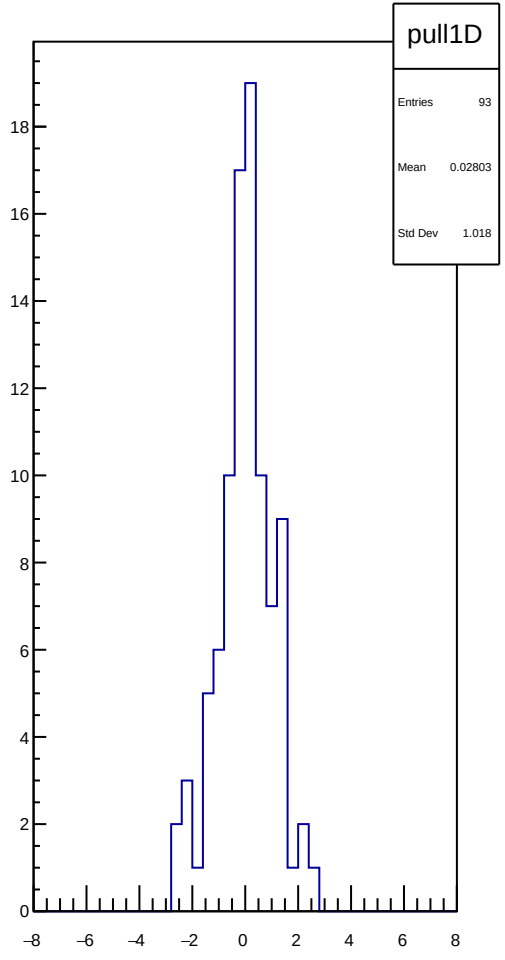

pull1D
Entries 93
Mean −0.0139
Std Dev 0.8874

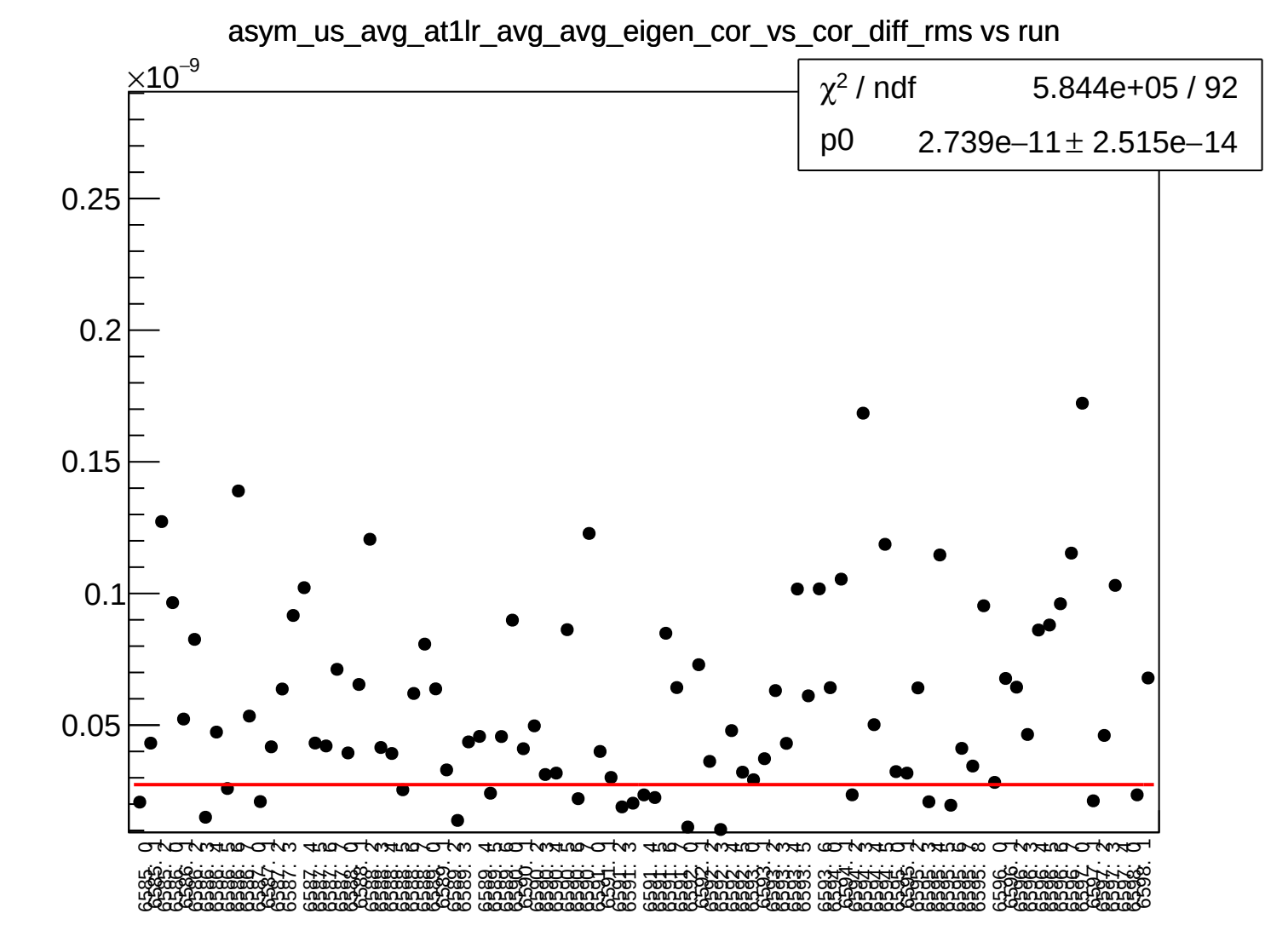

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.085e+05 / 92
p0 143.8 ± 0.1115
600
500
400
300
200
100

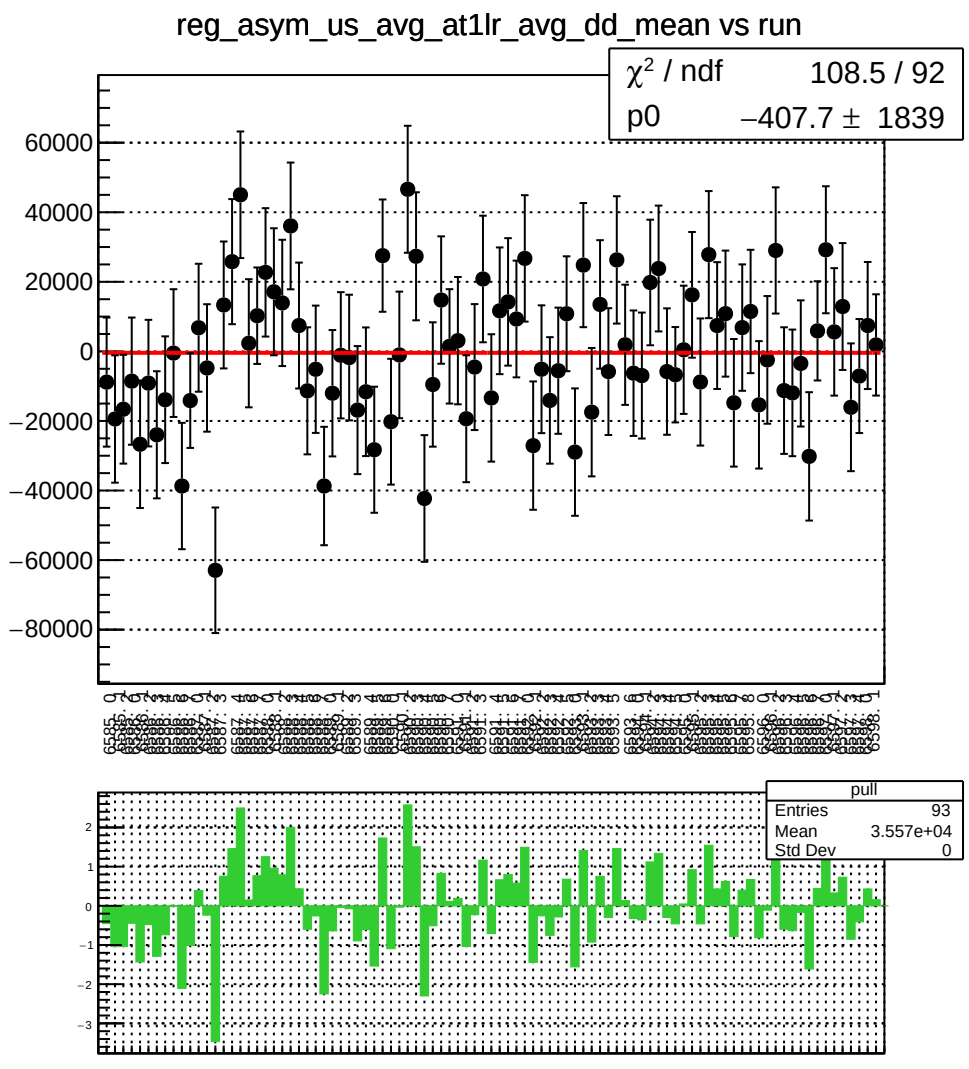

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.25 / 92
p0 −0.2558 ± 0.1577
pull
Entries 93
Mean 19.99
Std Dev 0
pull1D
Entries 93
Mean −0.0139
Std Dev 0.8874

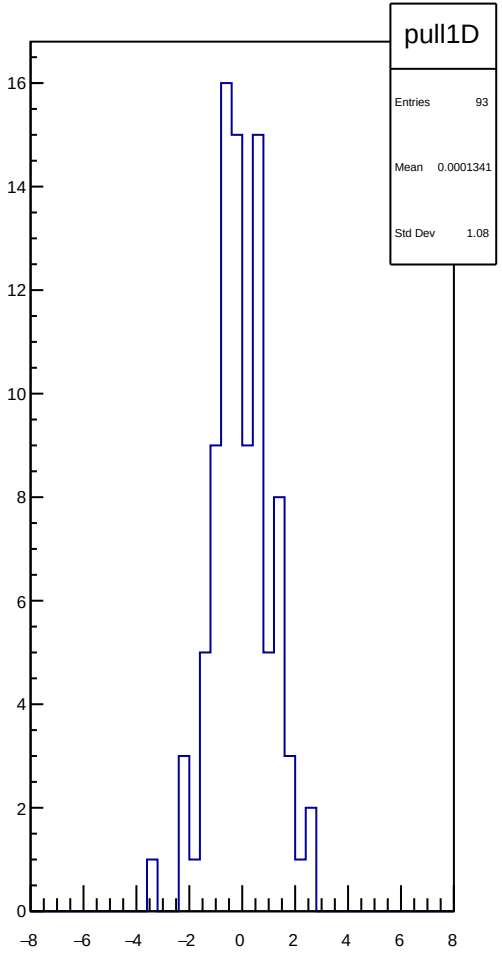

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.085e+05 / 92
p0 143.8 ± 0.1115
600
500
400
300
200
100

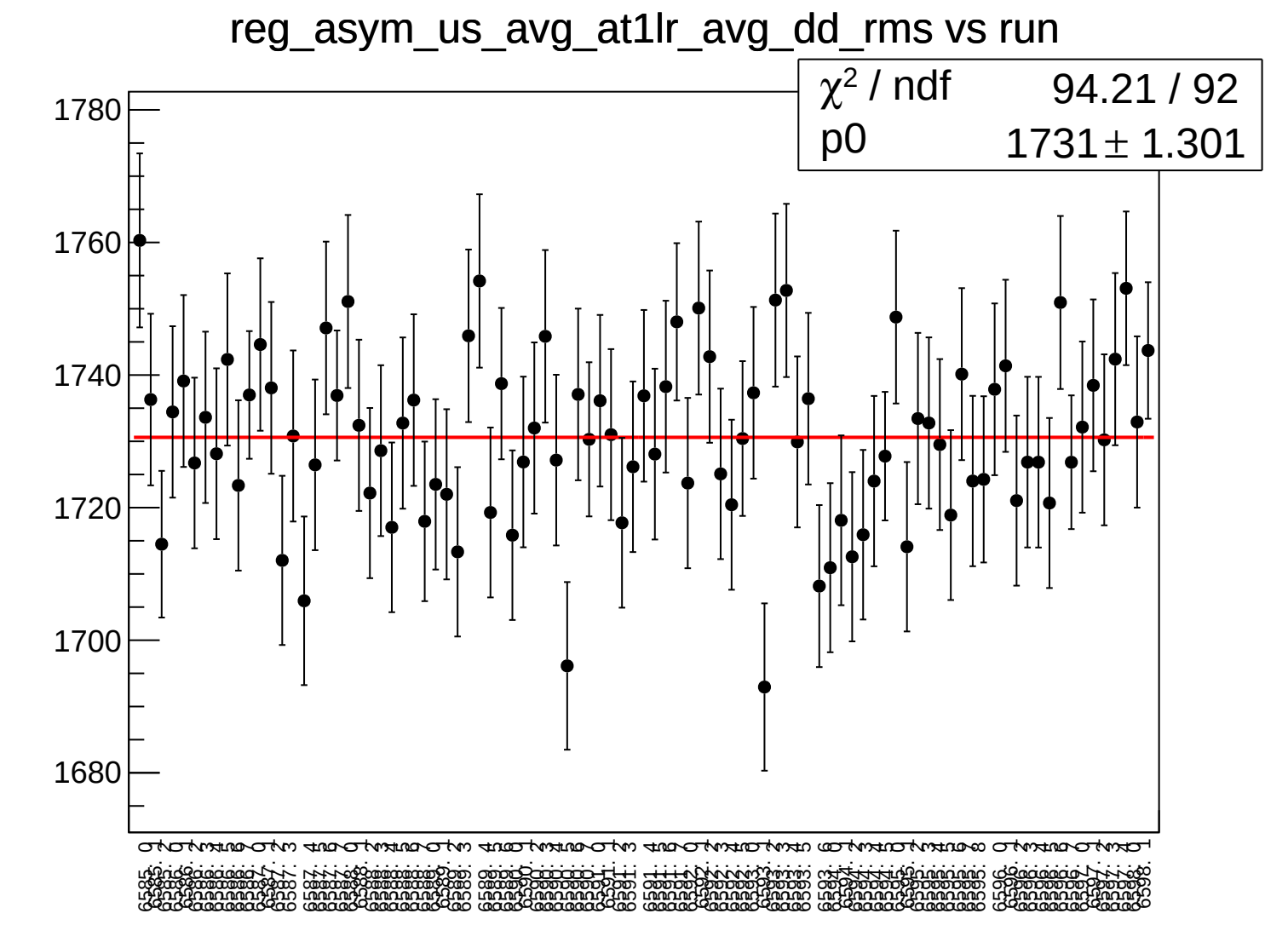

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.51 / 92
p0 −5.355e−14 ± 3.557e−14
pull
Entries 93
Mean −1.795
Std Dev 51.01

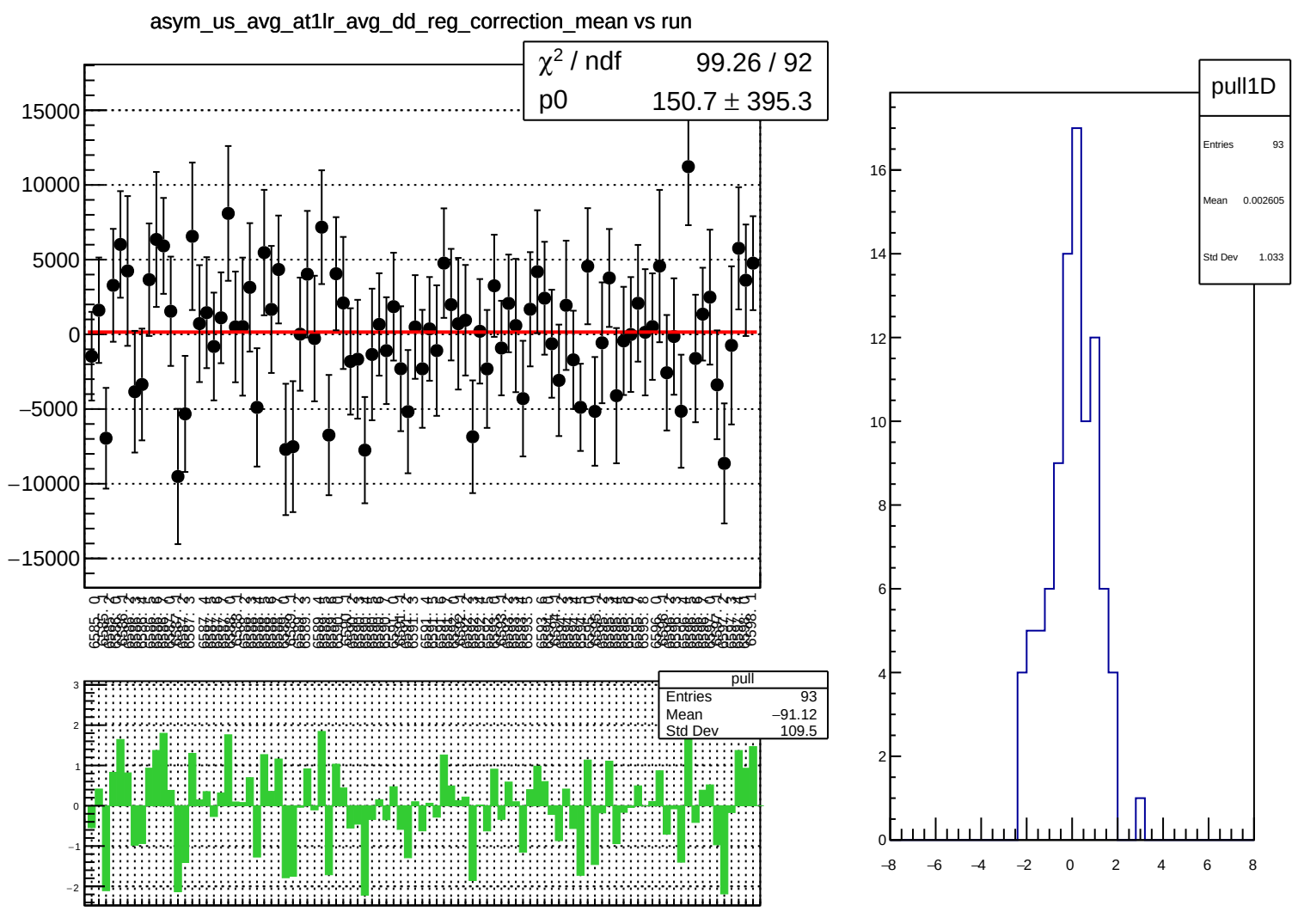

pull1D
Entries 93
Mean 0.02803
Std Dev 1.018

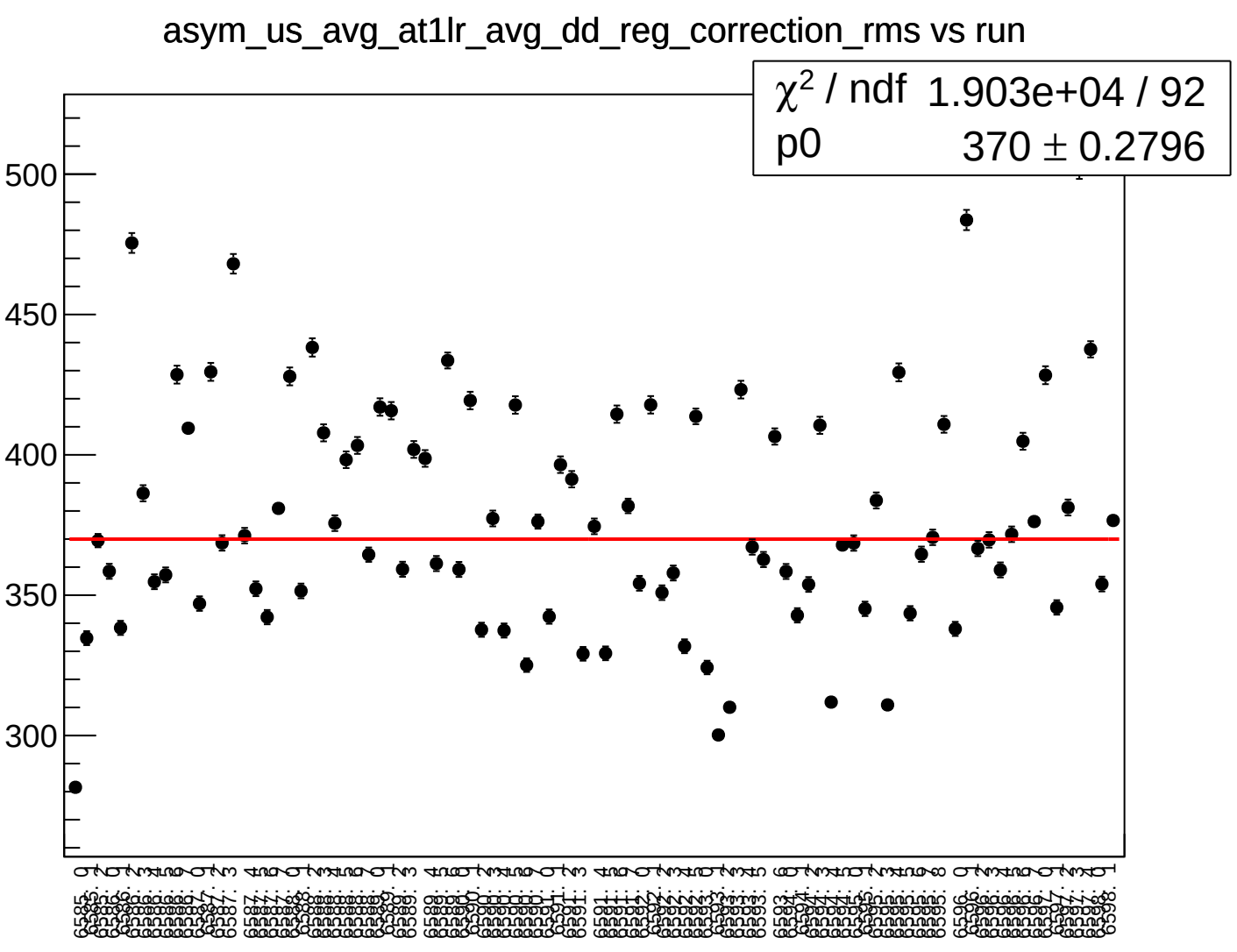

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.844e+05 / 92
p0 2.739e−11 ± 2.515e−14
0.25
0.2
0.15
0.1
0.05

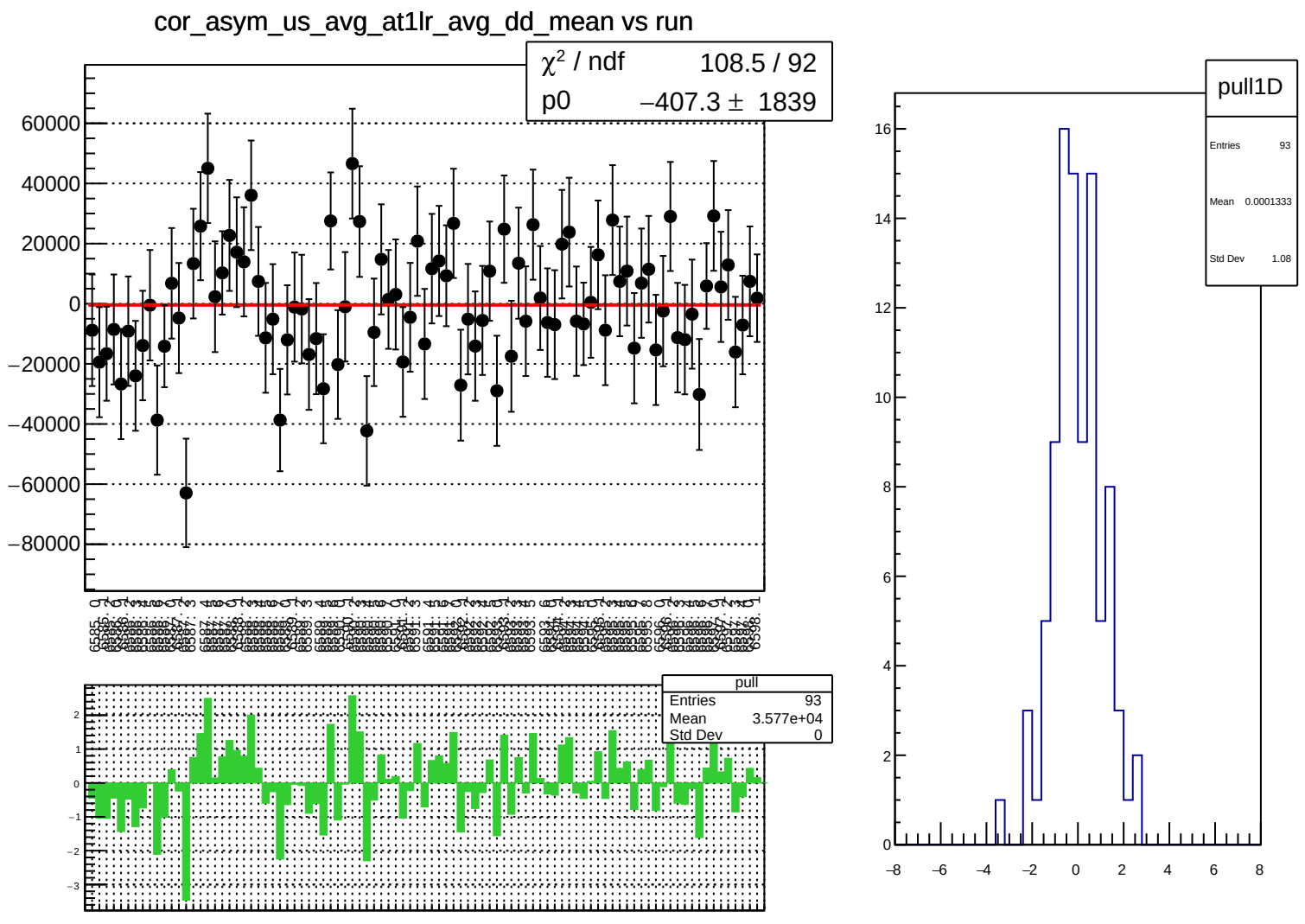

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.5 / 92
p0 −407.7 ± 1839
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 3.557e+04
Std Dev 0
2
1
0
−1
−2
−3

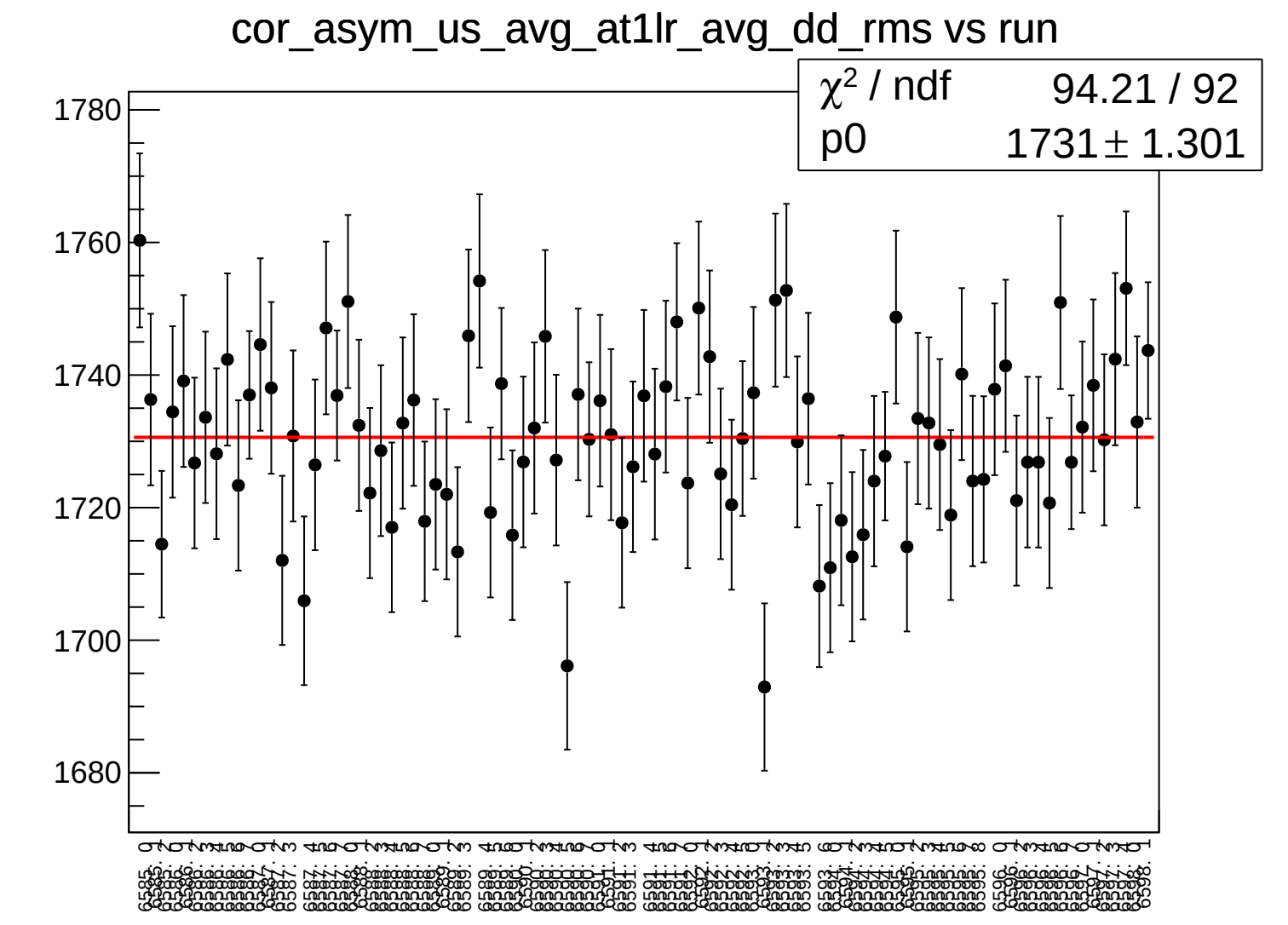

pull1D
Entries 93
Mean 0.0001341
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

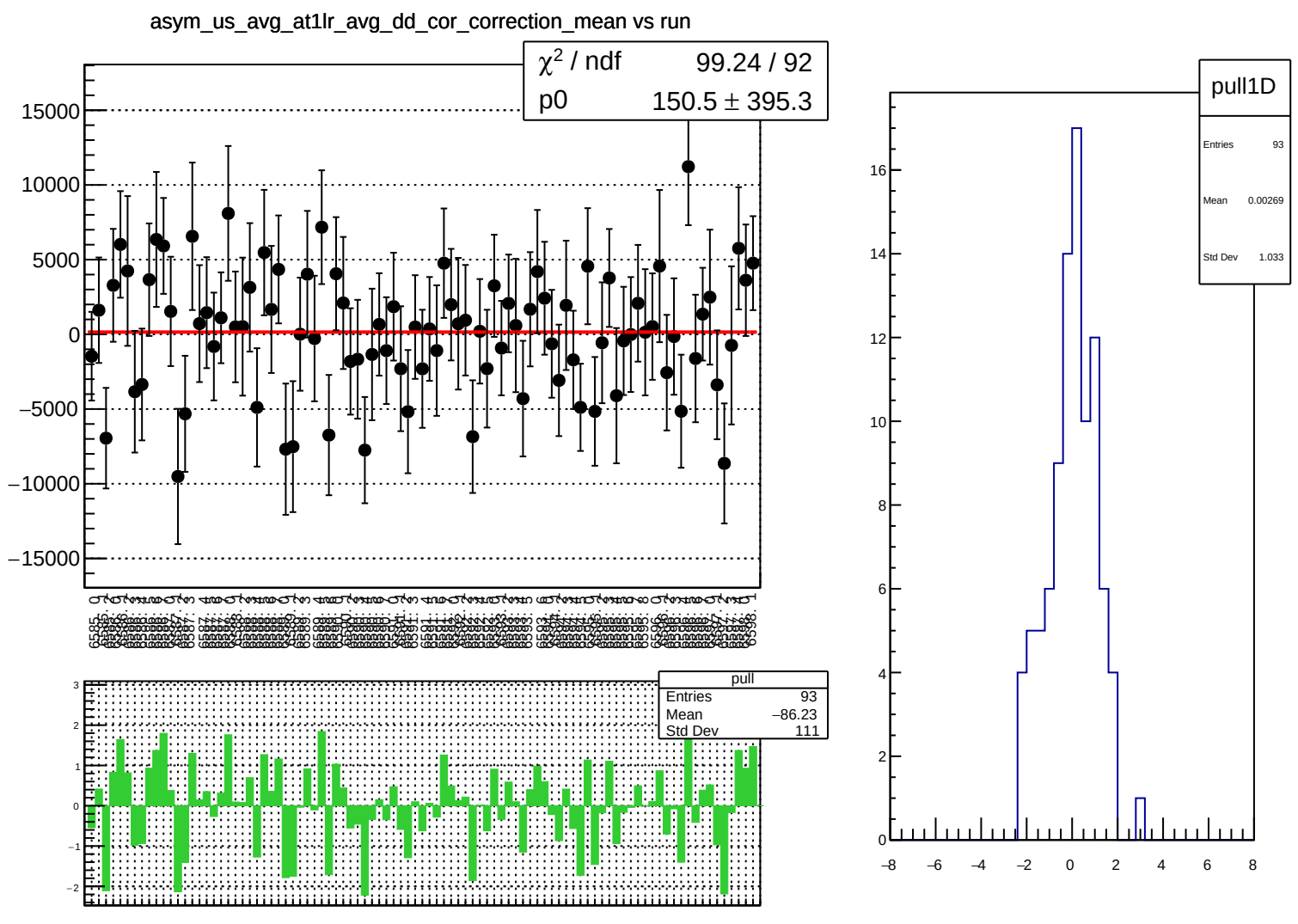

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 94.21 / 92
p0 1731 ± 1.301
1780
1760
1740
1720
1700
1680

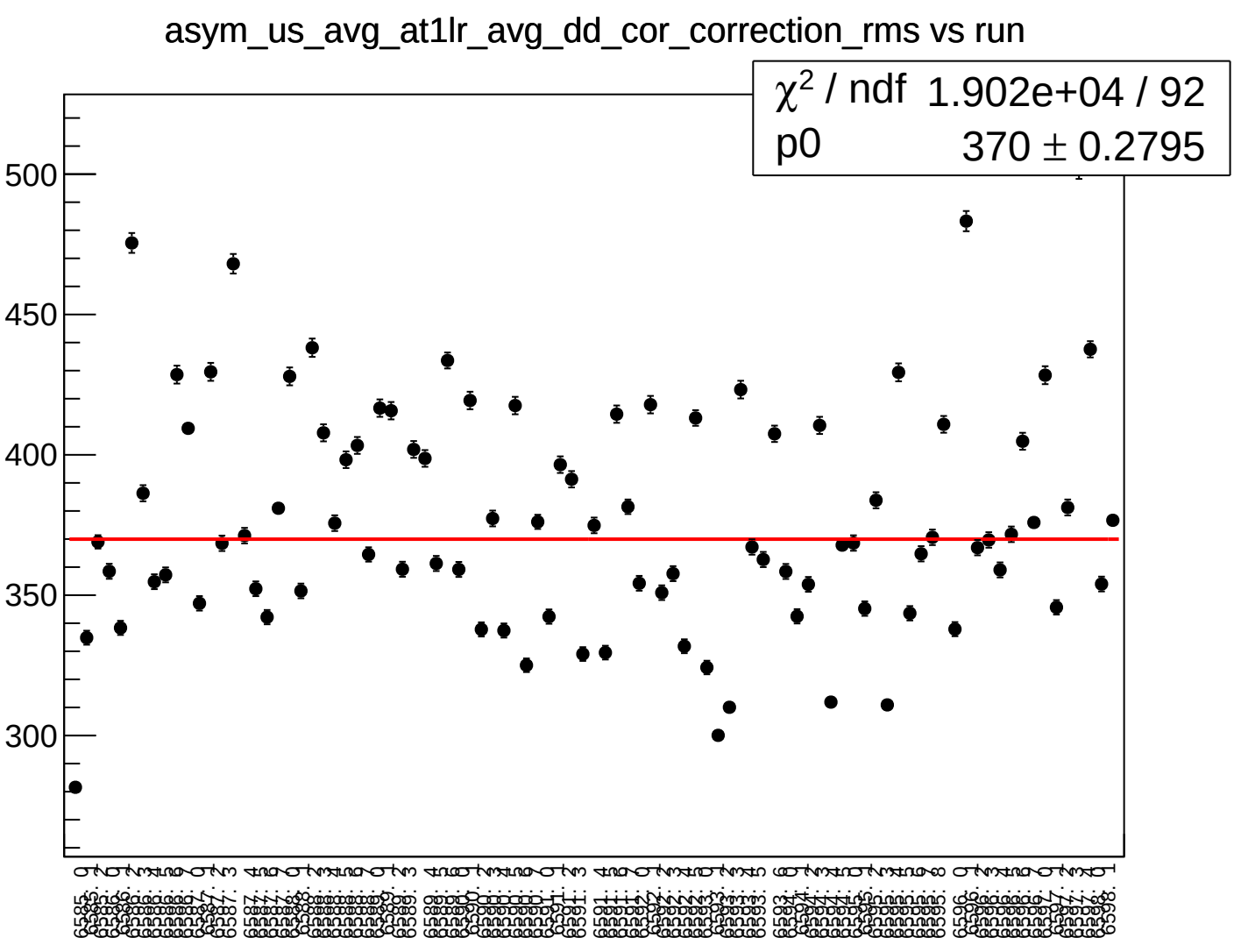

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 99.26 / 92
p0 150.7 ± 395.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −91.12
Std Dev 109.5
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002605
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

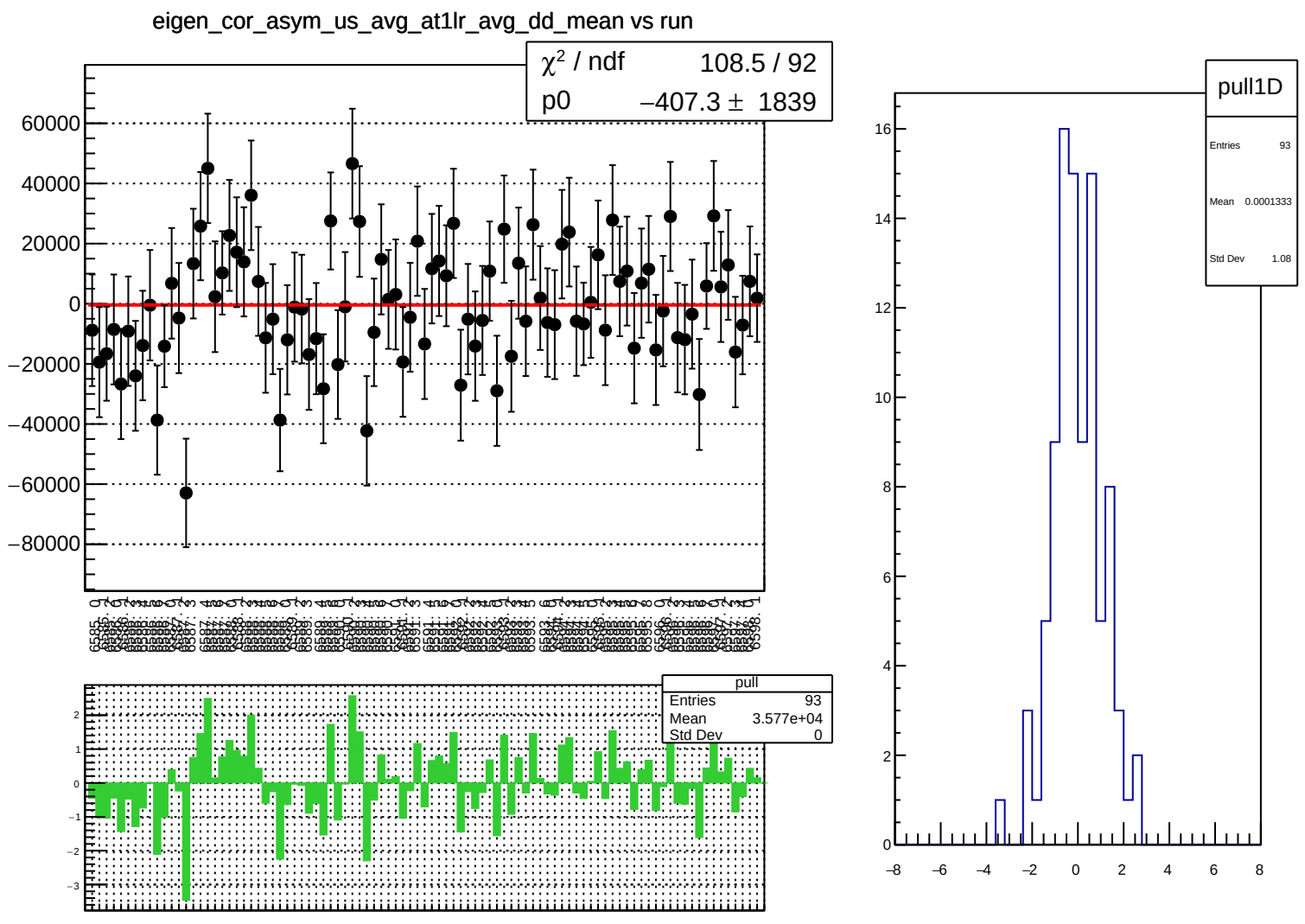

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.903e+04 / 92
p0 370 ± 0.2796
500
450
400
350
300

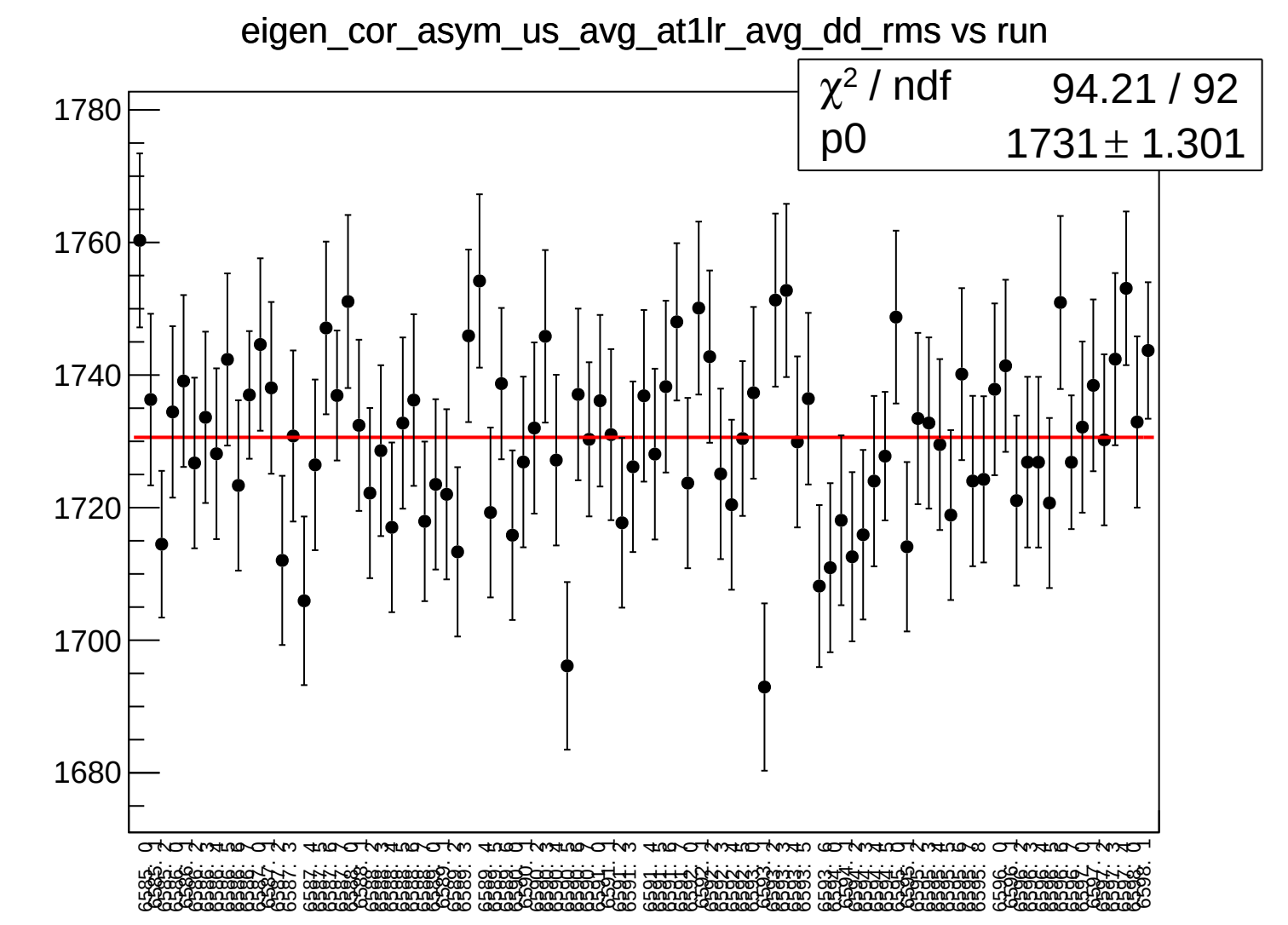

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.5 / 92
p0 −407.3 ± 1839
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 3.577e+04
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.0001333
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

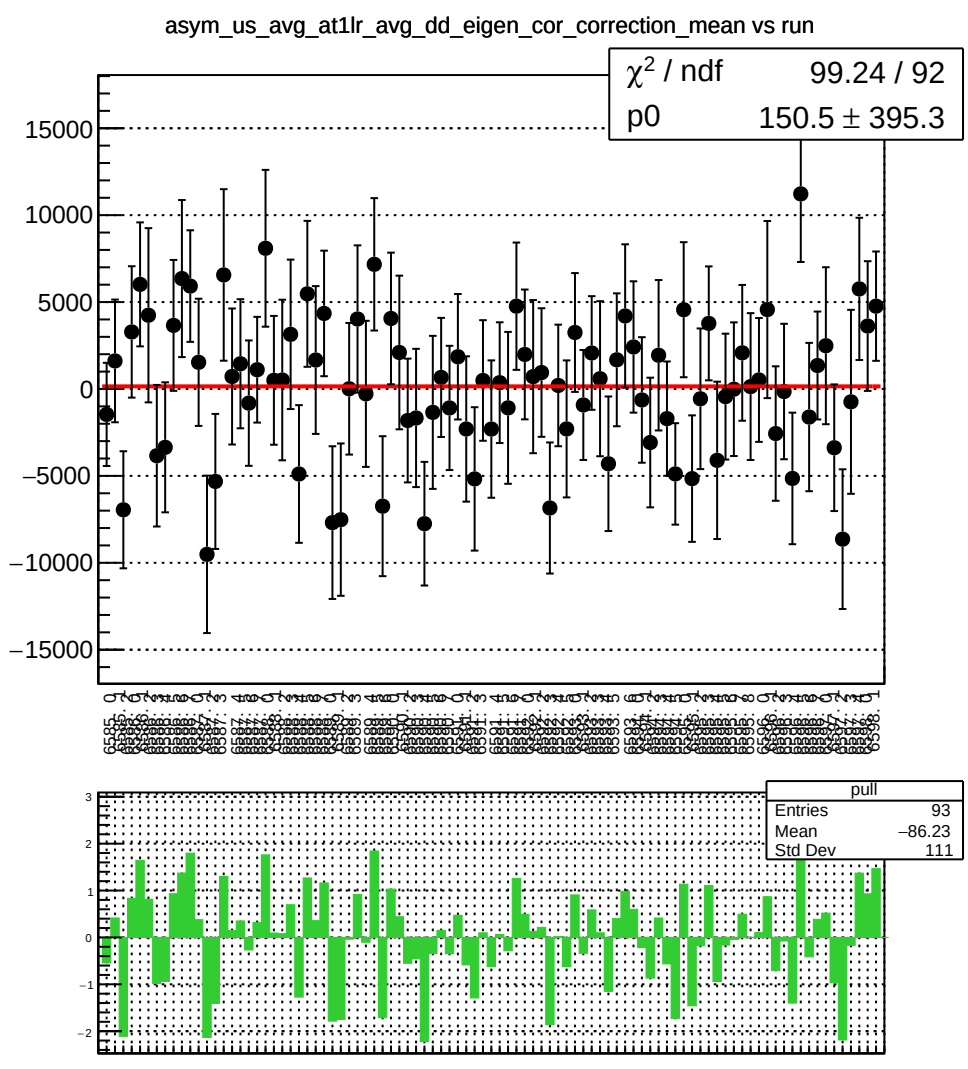

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 94.21 / 92
p0 1731 ± 1.301
1780
1760
1740
1720
1700
1680

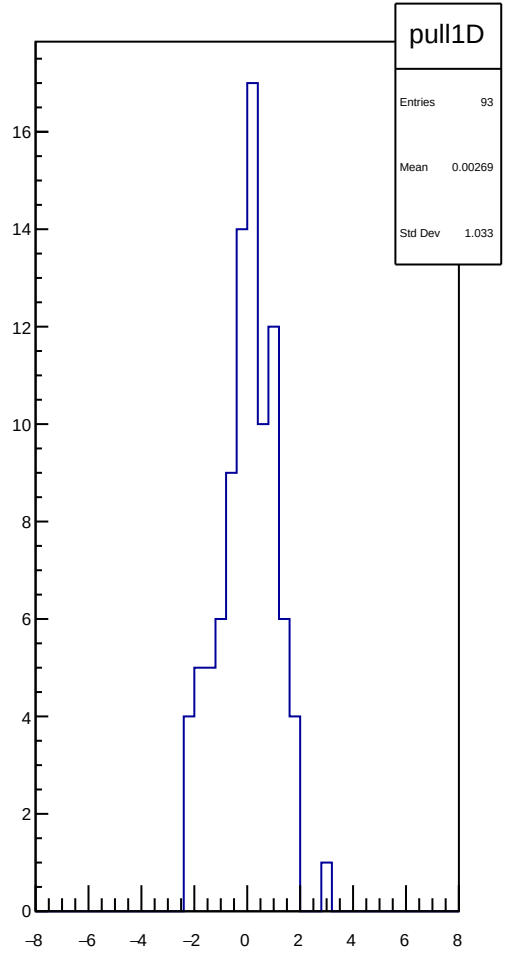

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 99.24 / 92
p0 150.5 ± 395.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −86.23
Std Dev 111
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00269
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

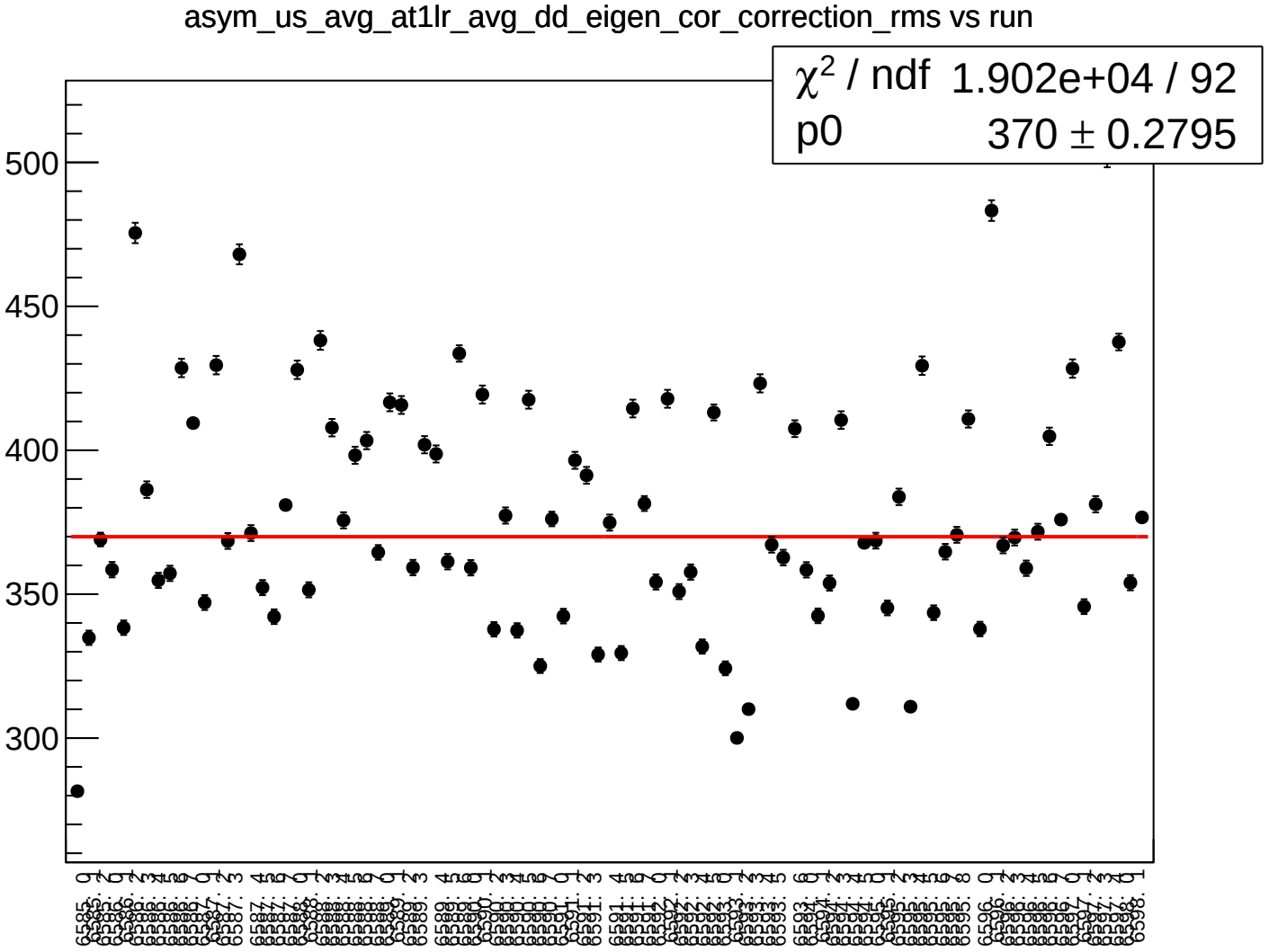

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.902e+04 / 92
p0 370 ± 0.2795
500
450
400
350
300

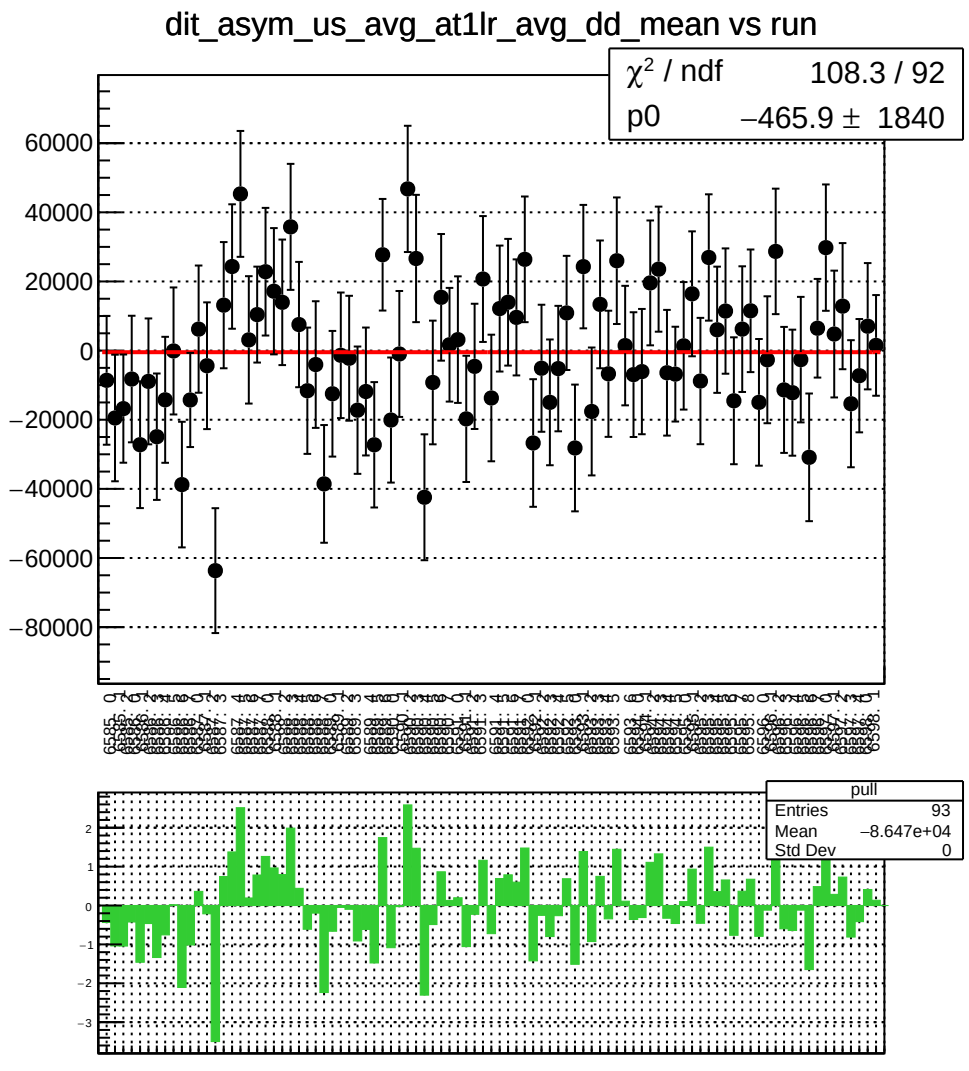

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.5 / 92
p0 −407.3 ± 1839
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 3.577e+04
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.0001333
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

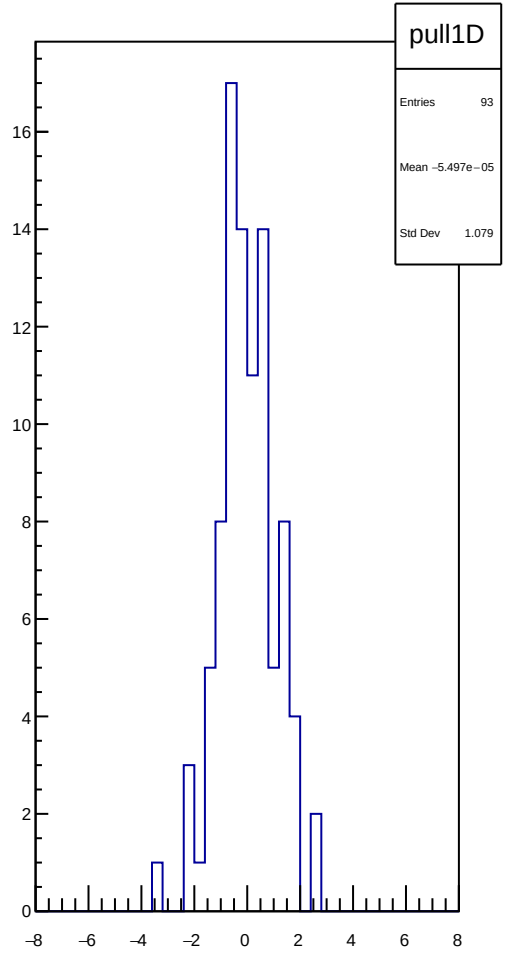

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 94.21 / 92
p0 1731 ± 1.301
1780
1760
1740
1720
1700
1680

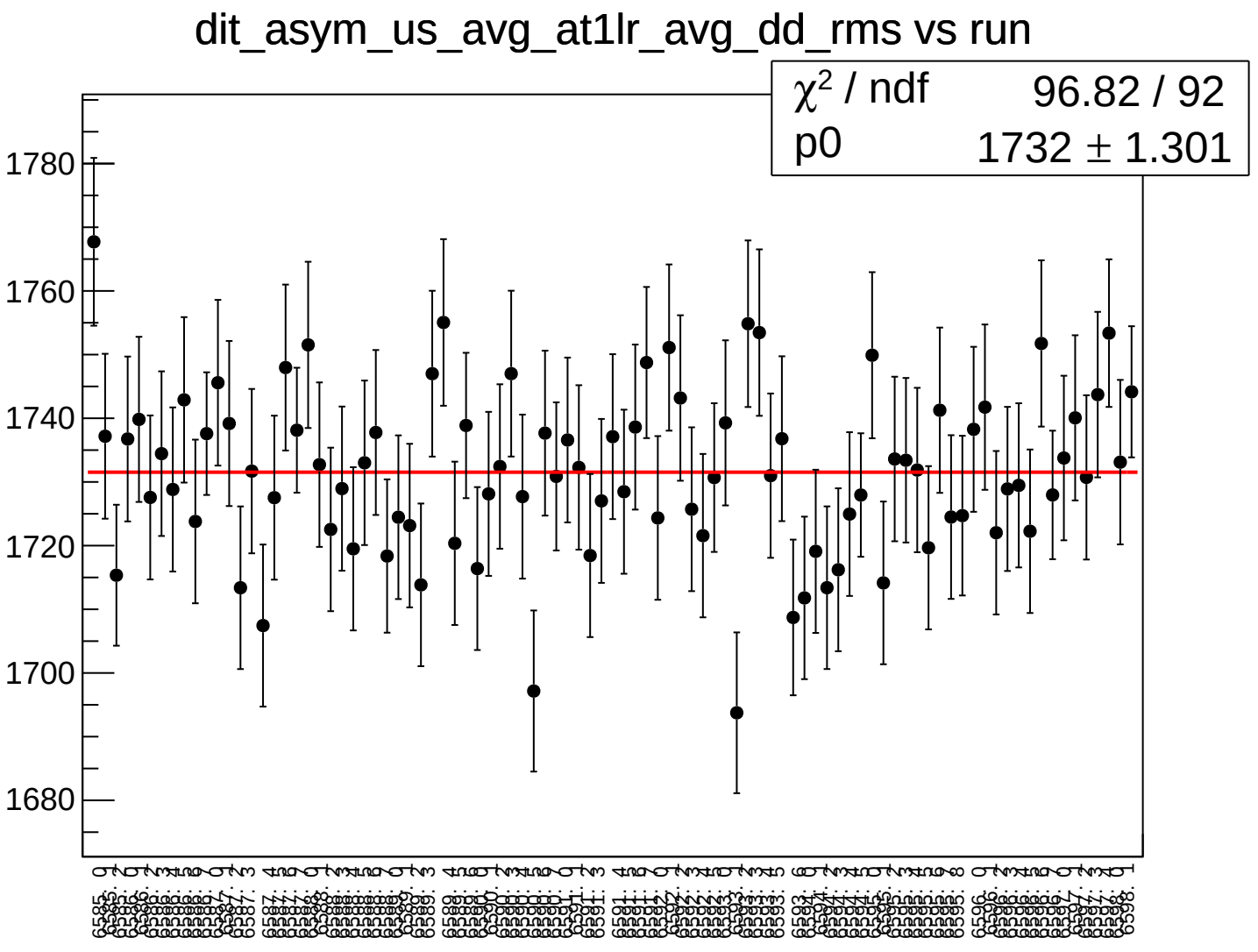

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.24 / 92
p0 150.5 ± 395.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −86.23
Std Dev 111
3
2
1
0
−1
−2

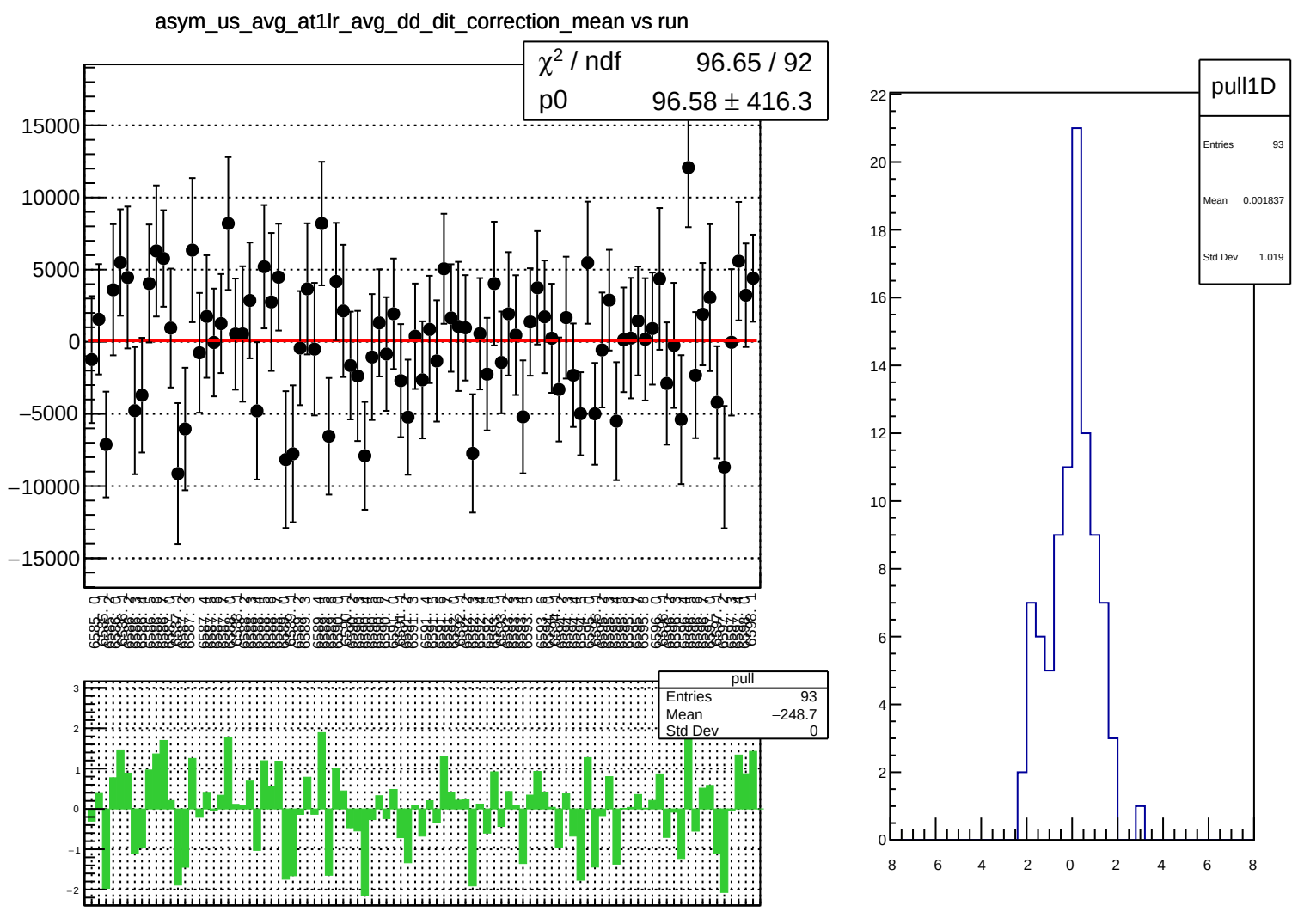

pull1D
Entries 93
Mean 0.00269
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

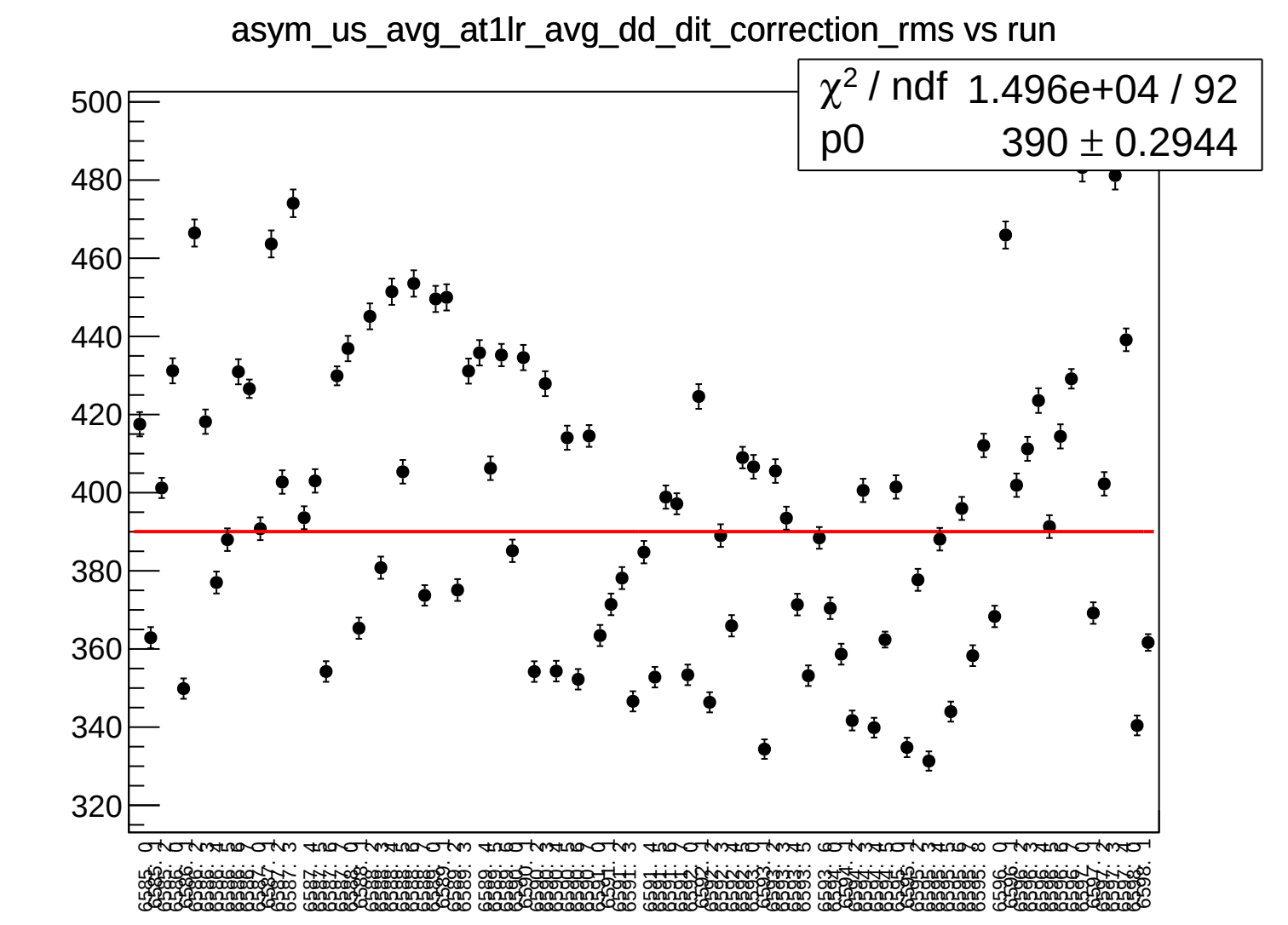

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.902e+04 / 92
p0 370 ± 0.2795
500
450
400
350
300

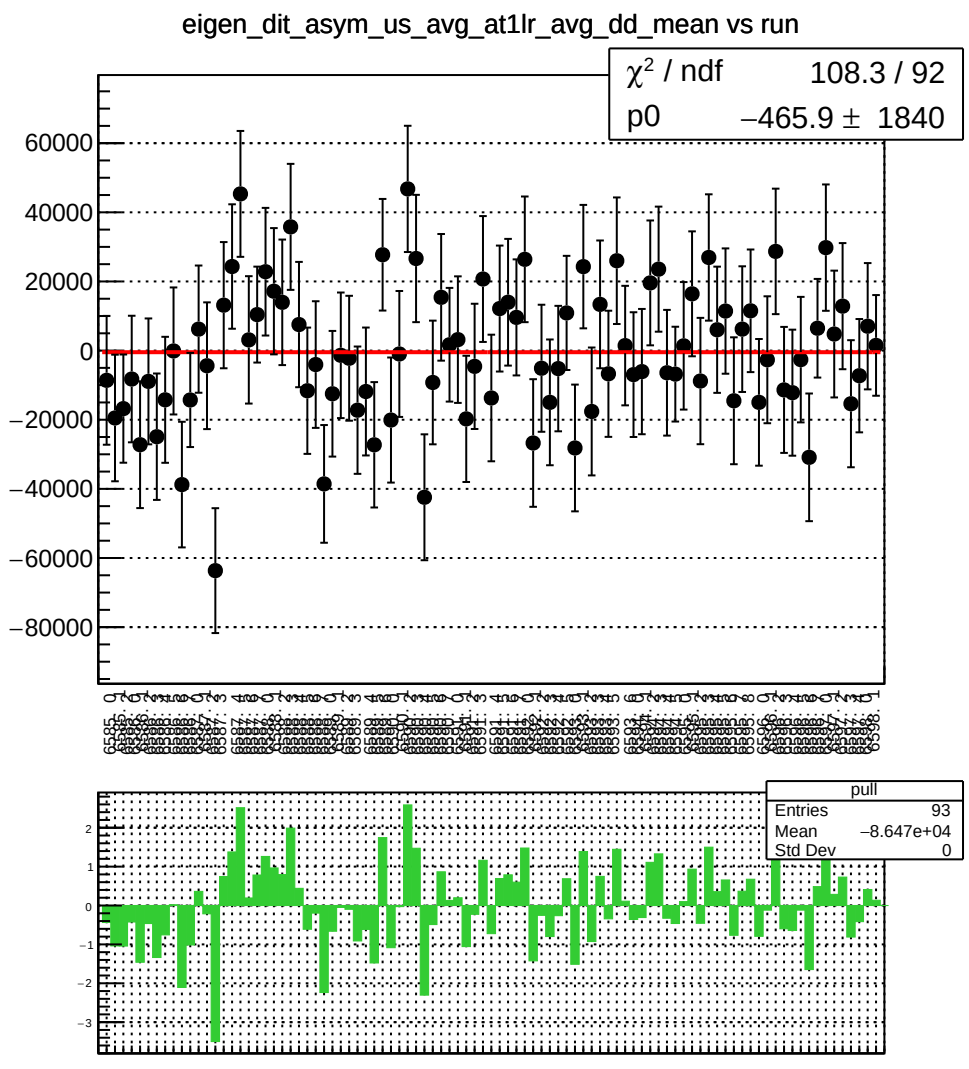

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.3 / 92
p0 −465.9 ± 1840
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −8.647e+04
Std Dev 0
2
1
0
−1
−2
−3

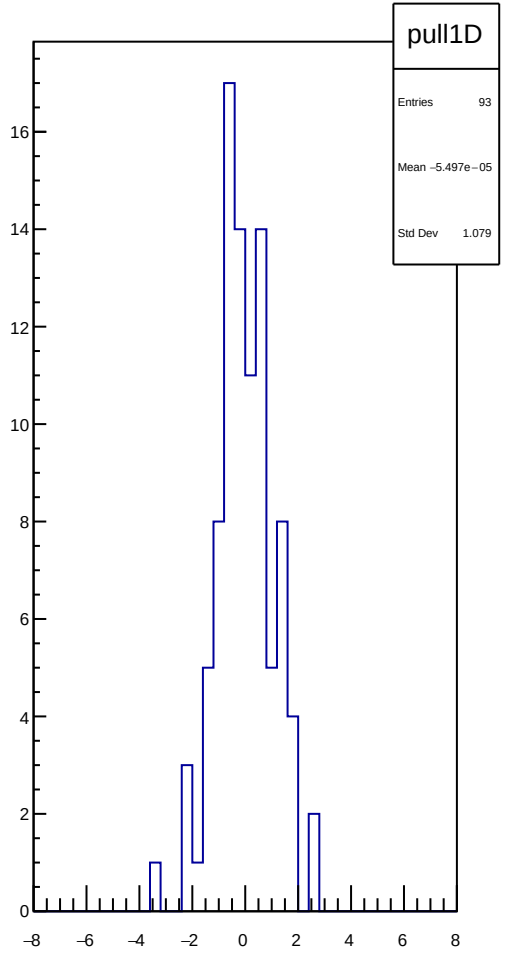

pull1D
Entries 93
Mean −5.497e−05
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

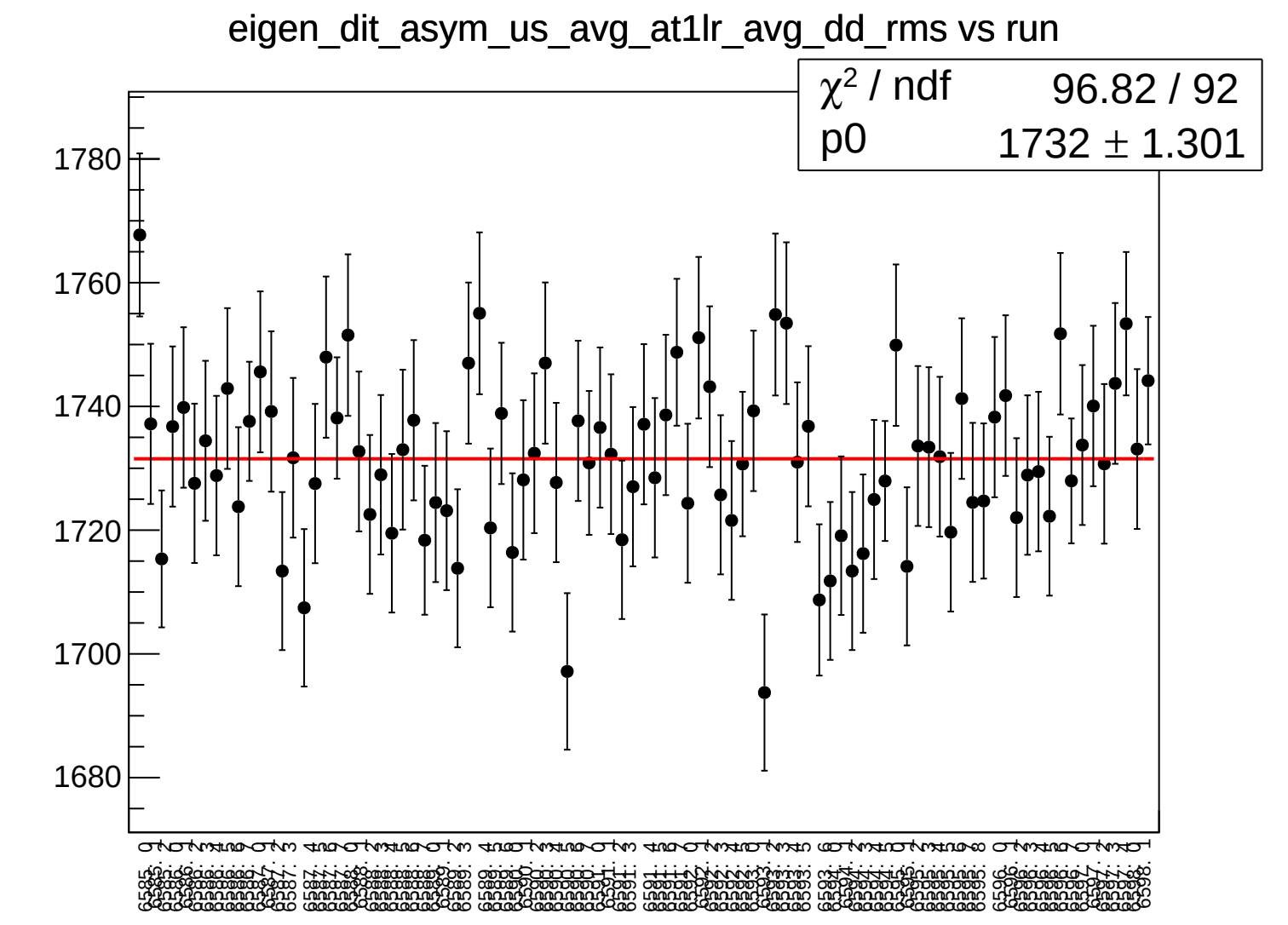

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 96.82 / 92
p0 1732 ± 1.301
1780
1760
1740
1720
1700
1680

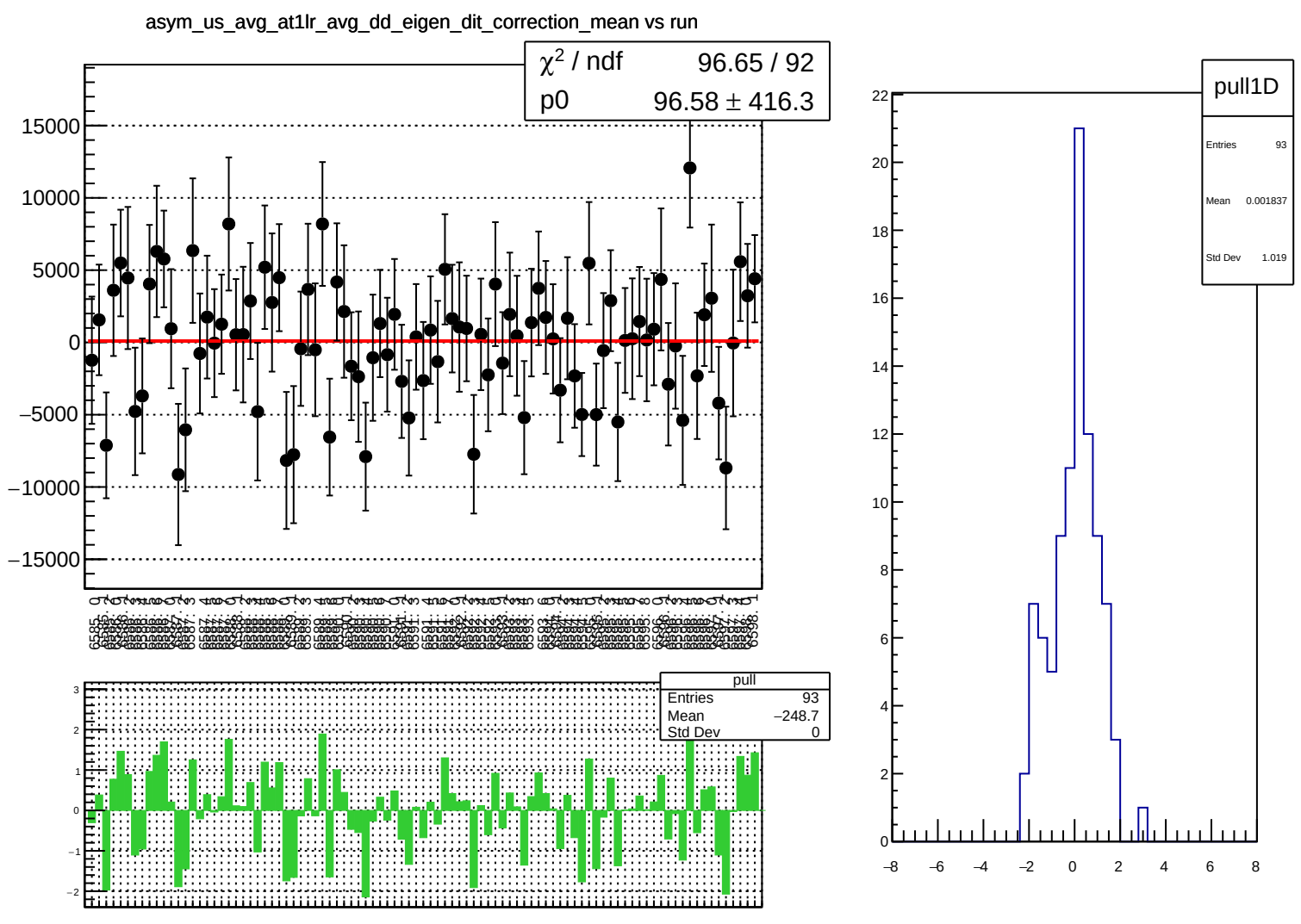

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 96.65 / 92
p0 96.58 ± 416.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −248.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001837
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

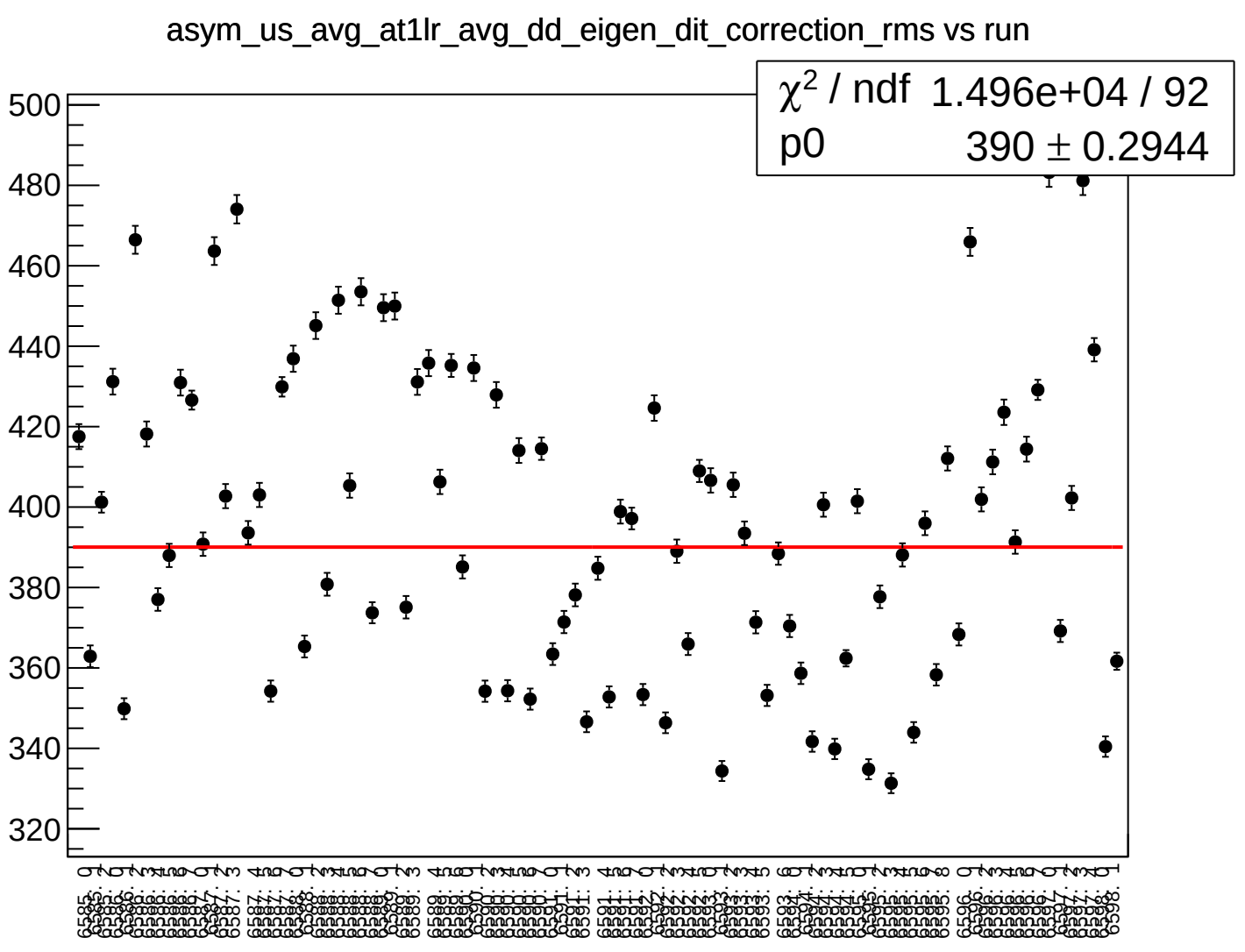

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.496e+04 / 92
p0 390 ± 0.2944
500
480
460
440
420
400
380
360
340
320

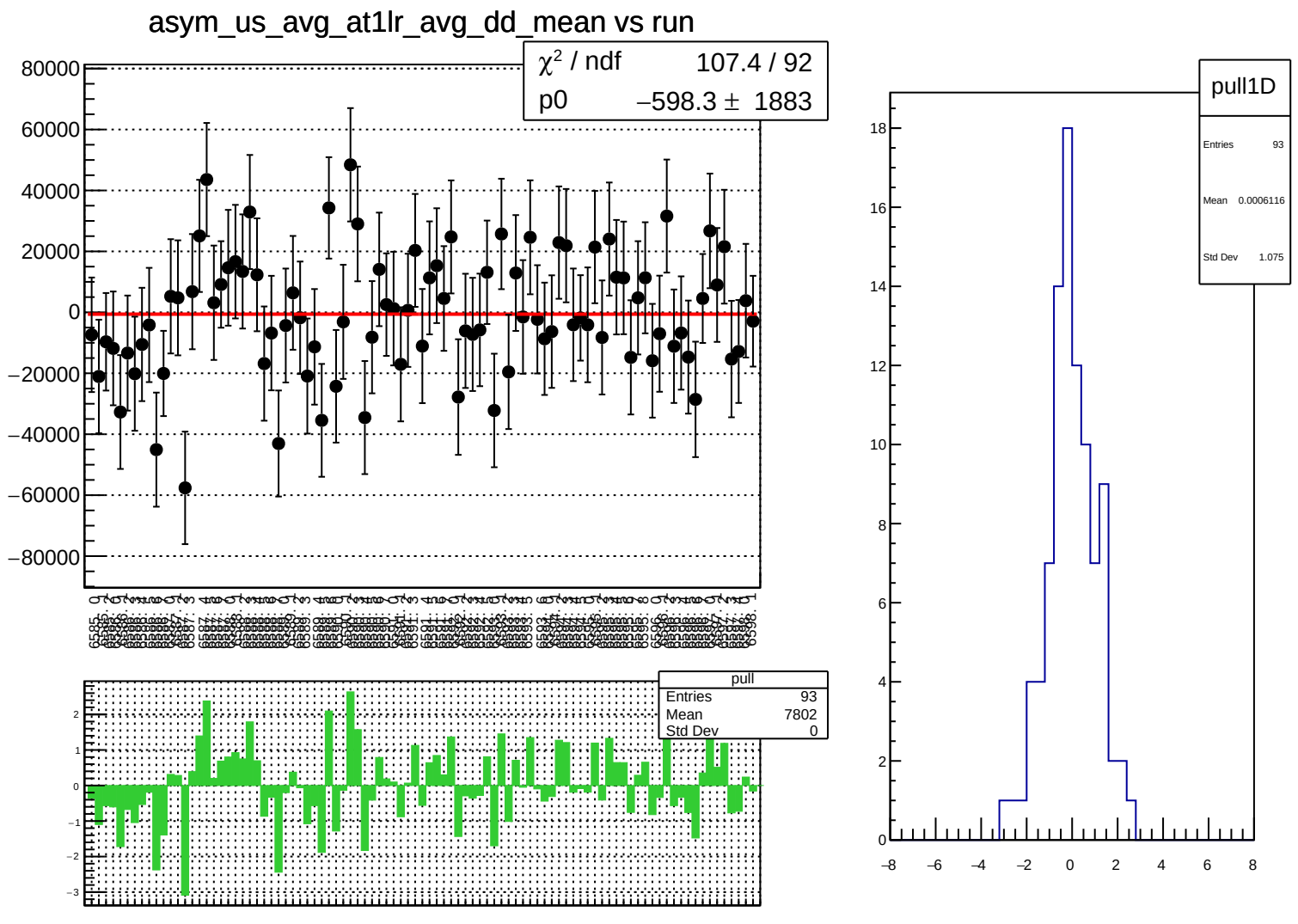

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.3 / 92
p0 −465.9 ± 1840
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −8.647e+04
Std Dev 0
2
1
0
−1
−2
−3

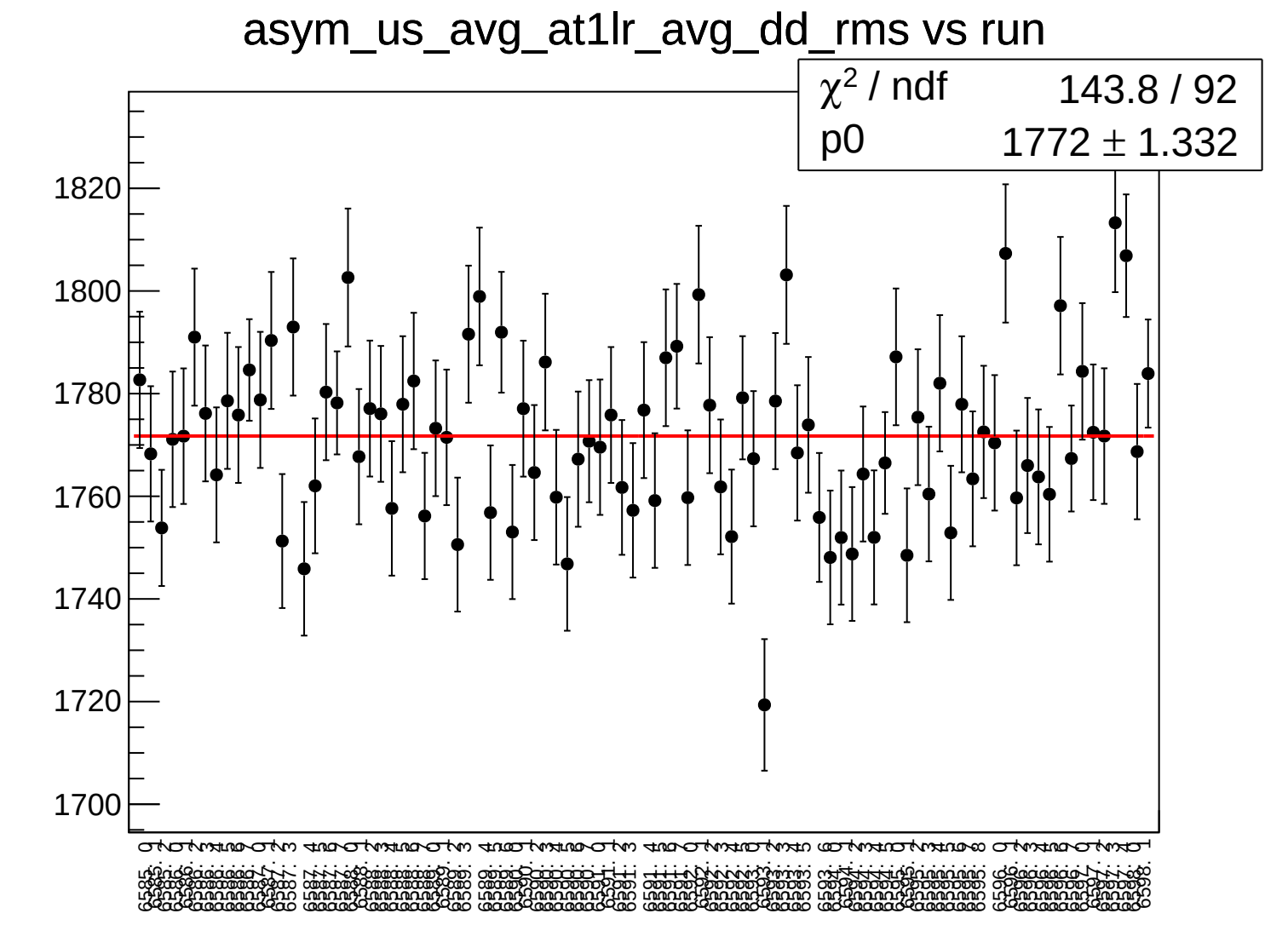

pull1D
Entries 93
Mean −5.497e−05
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

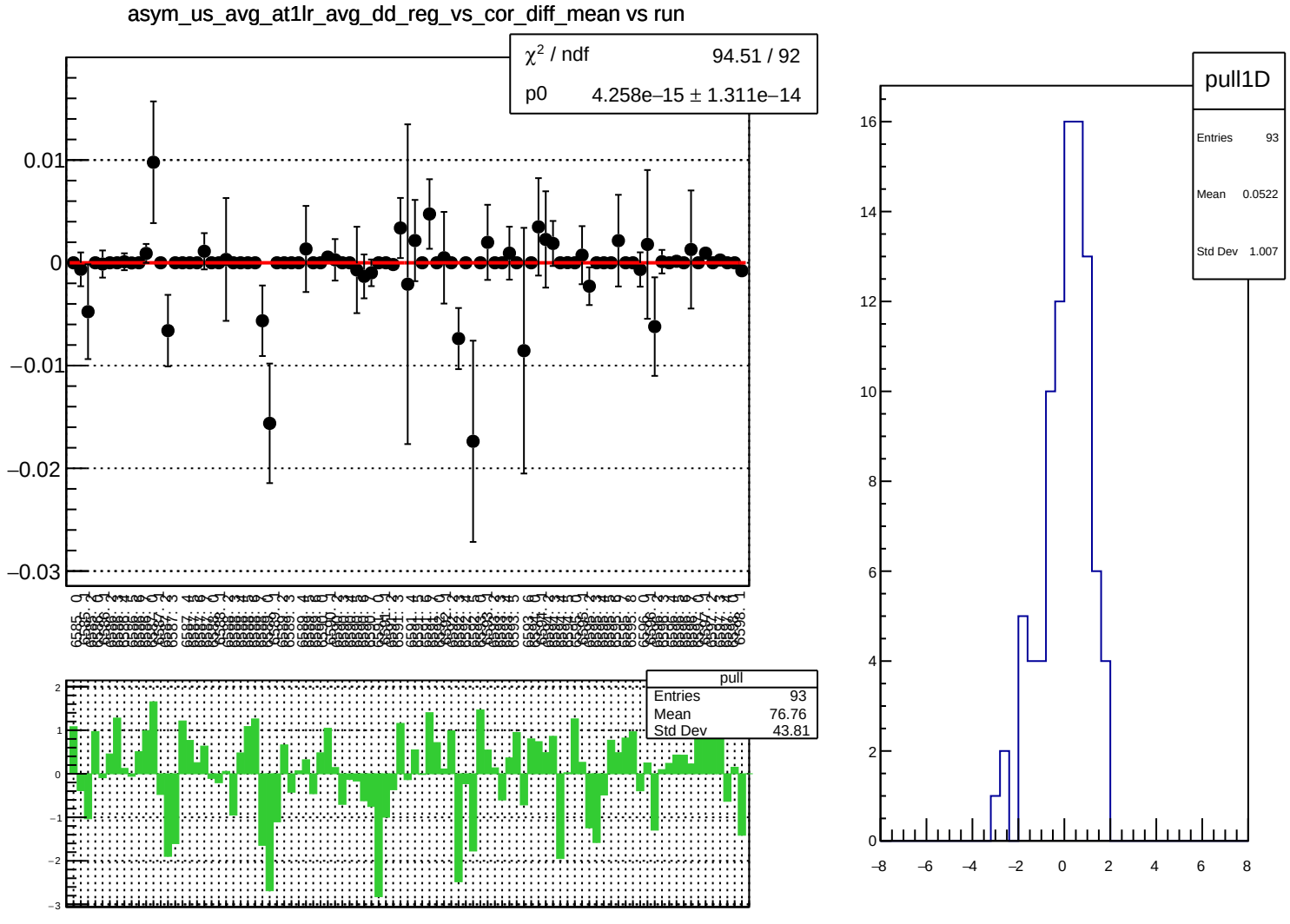

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 96.82 / 92
p0 1732 ± 1.301
1780
1760
1740
1720
1700
1680

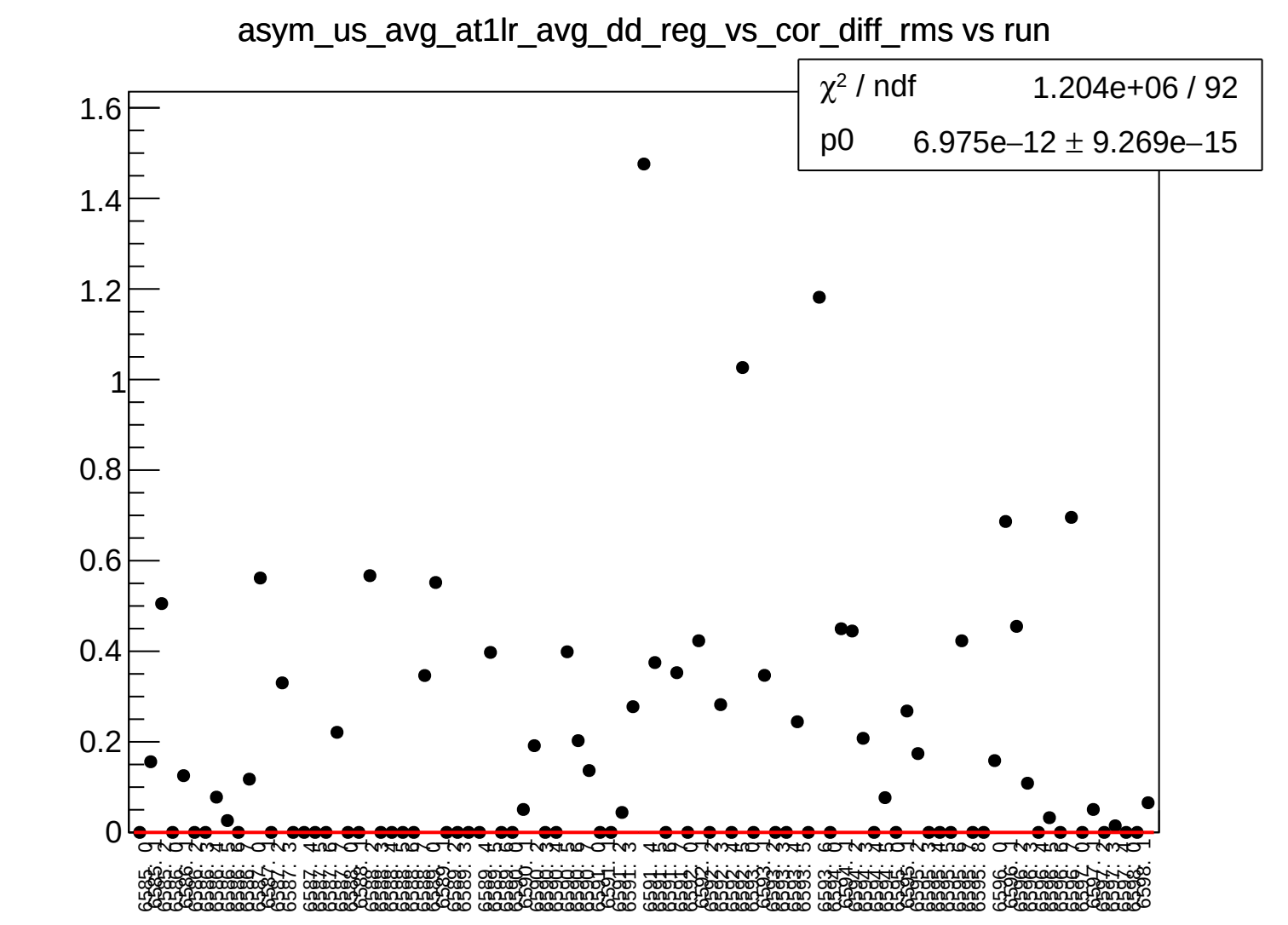

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.65 / 92
p0 96.58 ± 416.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −248.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001837
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

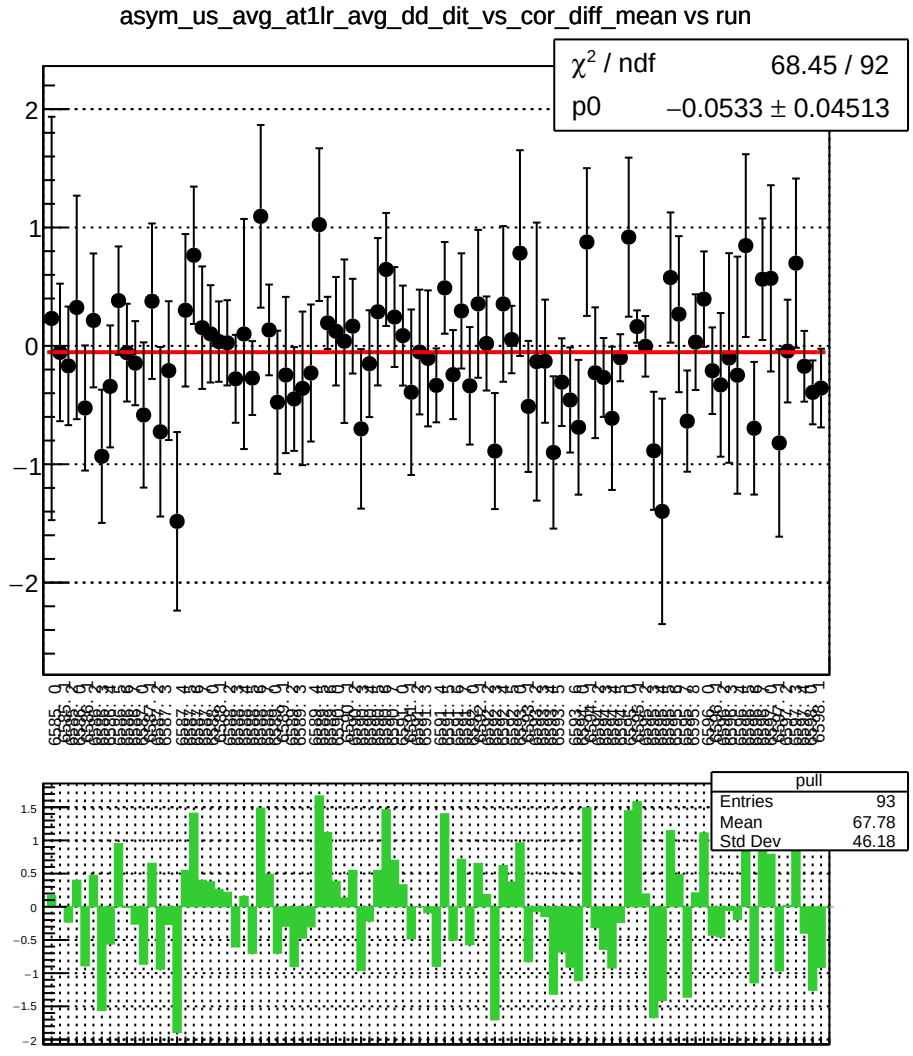

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.496e+04 / 92
p0 390 ± 0.2944
500
480
460
440
420
400
380
360
340
320

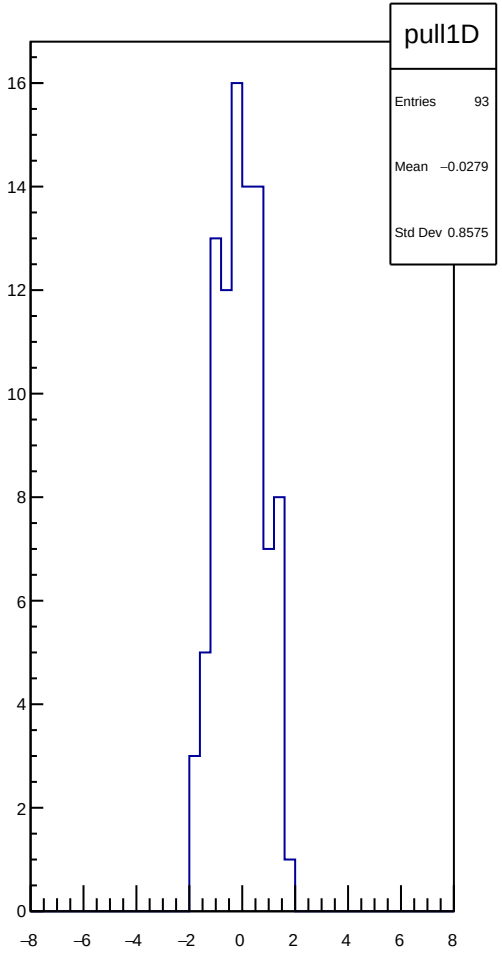

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 107.4 / 92
p0 −598.3 ± 1883
pull
Entries 93
Mean 7802
Std Dev 0
pull1D
Entries 93
Mean 0.0006116
Std Dev 1.075

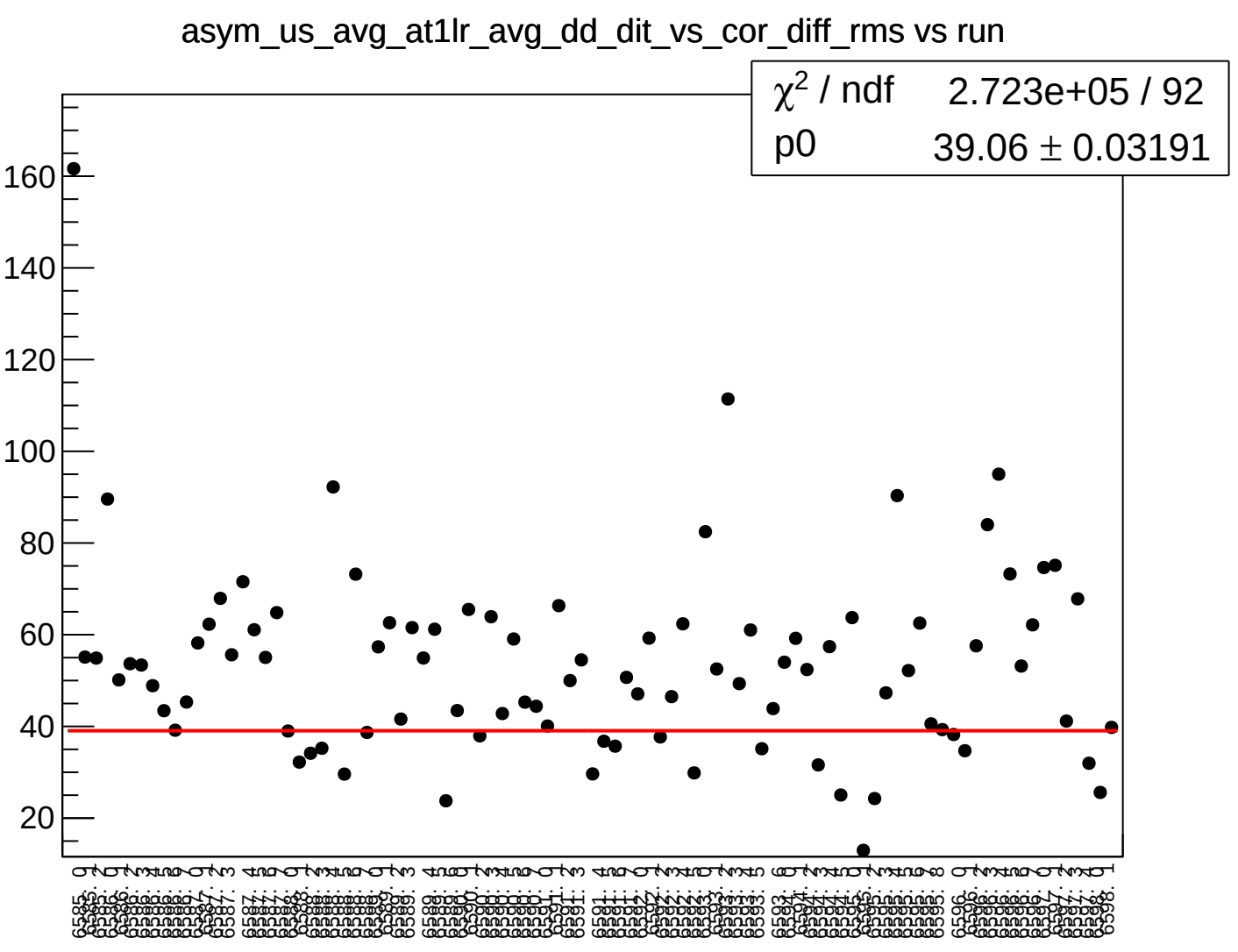

asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 143.8 / 92
p0 1772 ± 1.332
1820
1800
1780
1760
1740
1720
1700

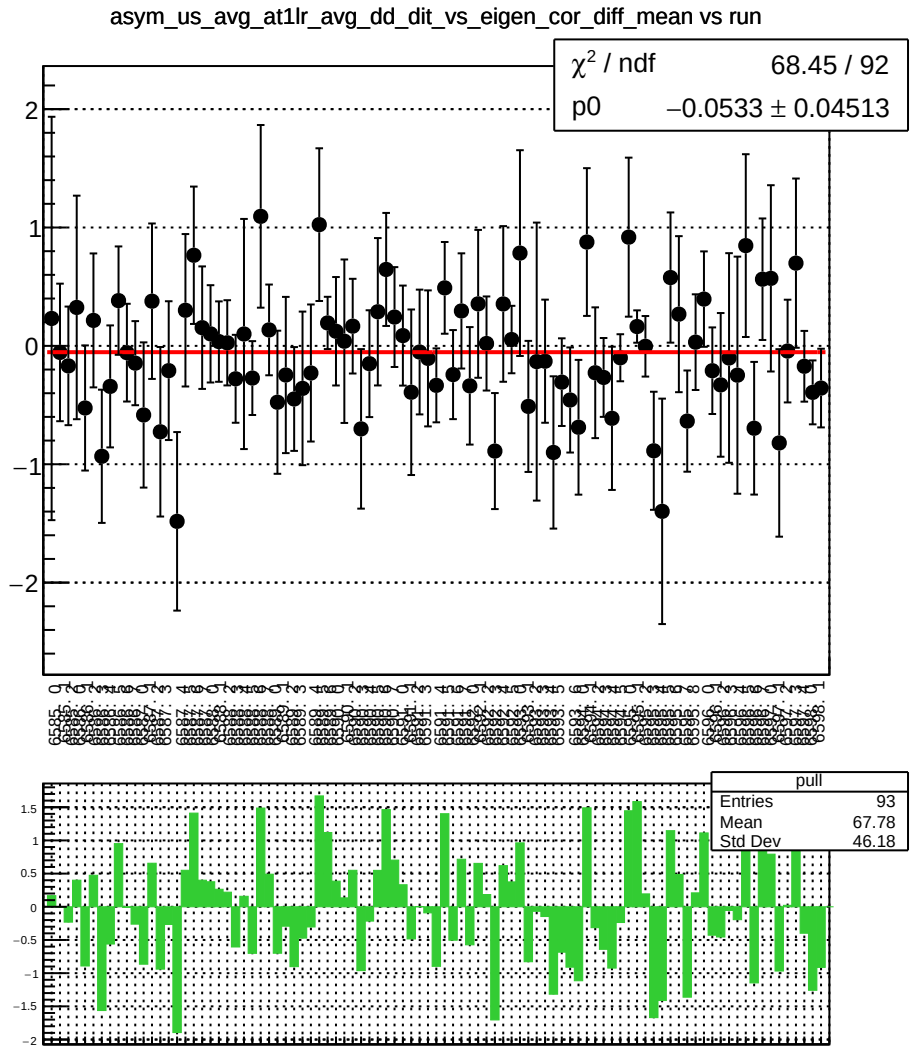

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.51 / 92
p0 4.258e−15 ± 1.311e−14
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 76.76
Std Dev 43.81
pull1D
Entries 93
Mean 0.0522
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

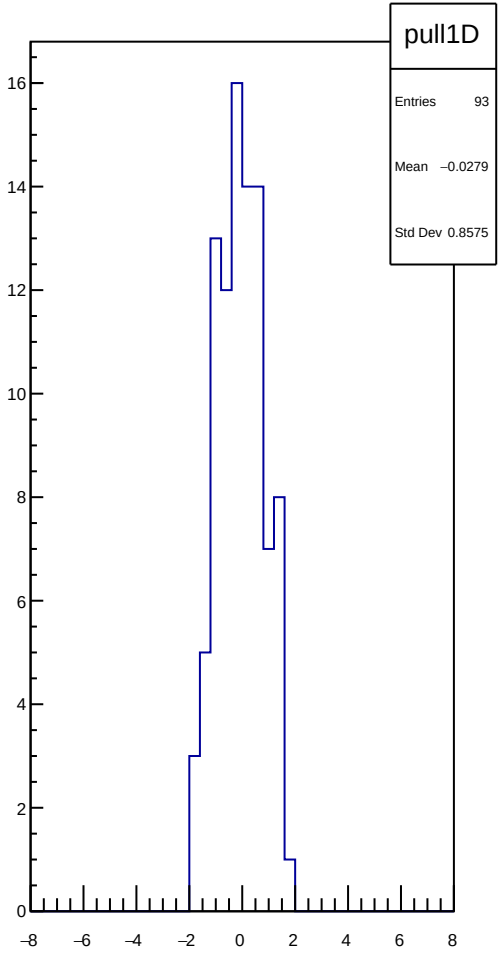

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.204e+06 / 92
p0 6.975e−12 ± 9.269e−15
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

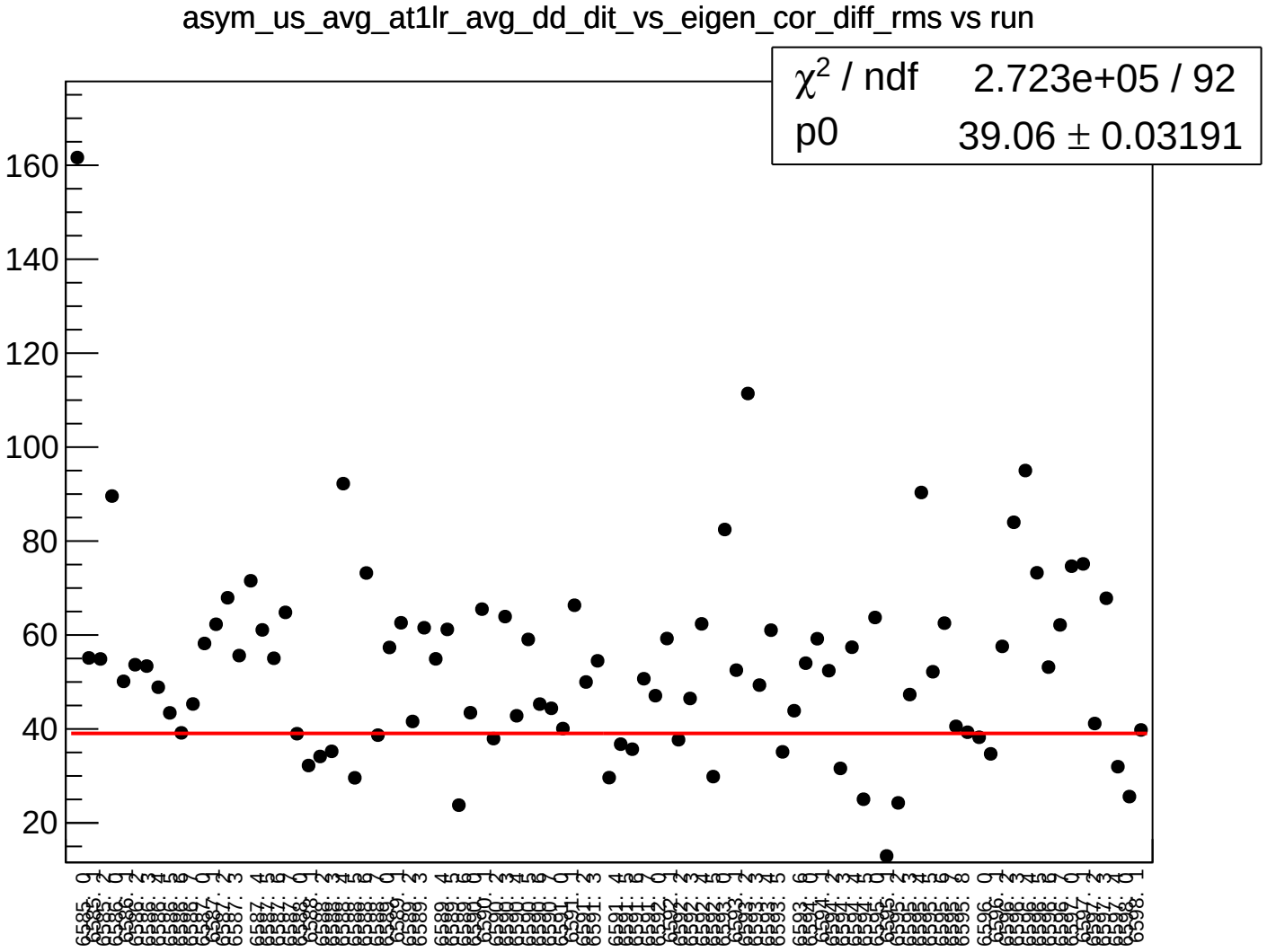

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.45 / 92
p0 −0.0533 ± 0.04513
pull
Entries 93
Mean 67.78
Std Dev 46.18

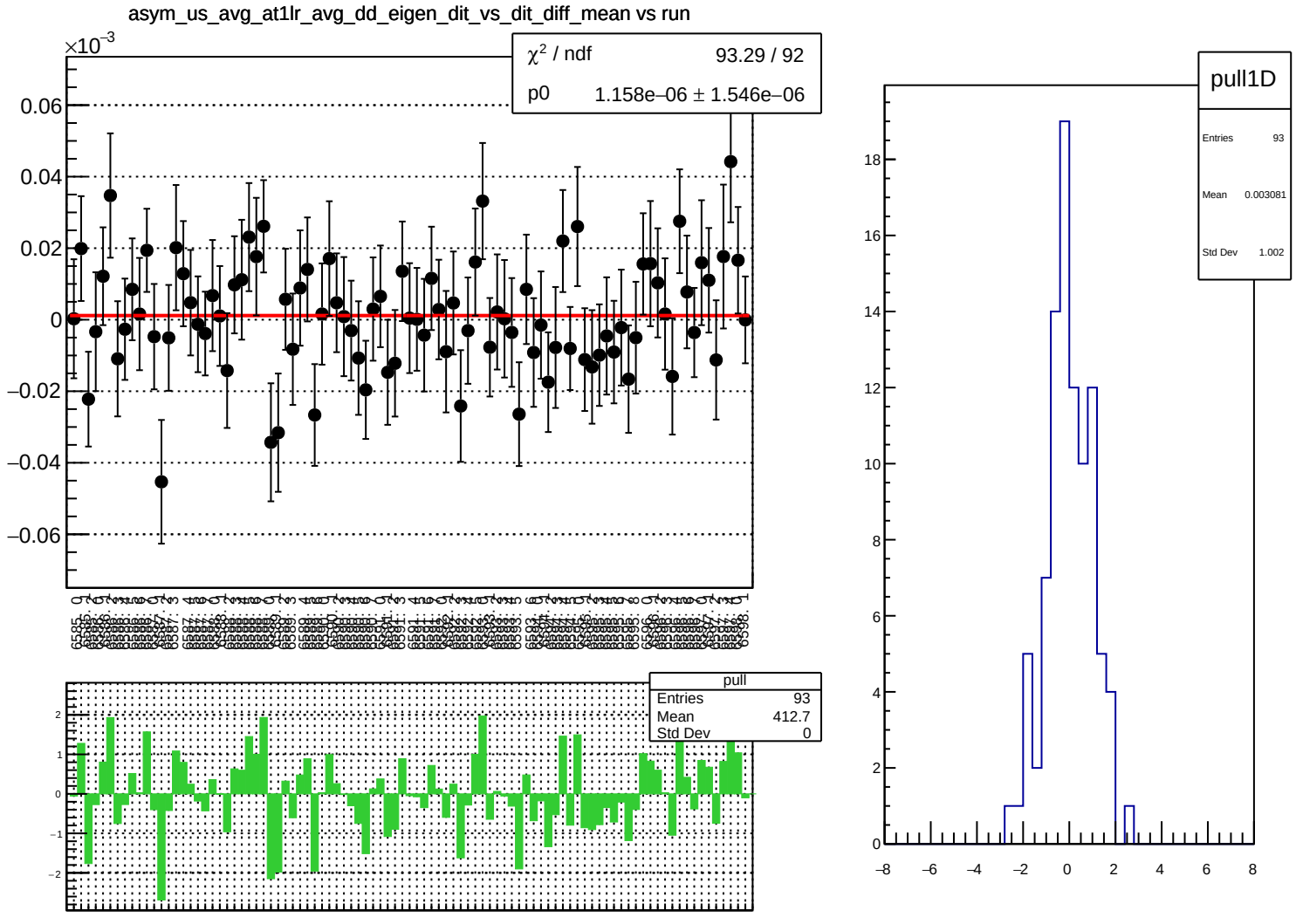

pull1D
Entries 93
Mean −0.0279
Std Dev 0.8575

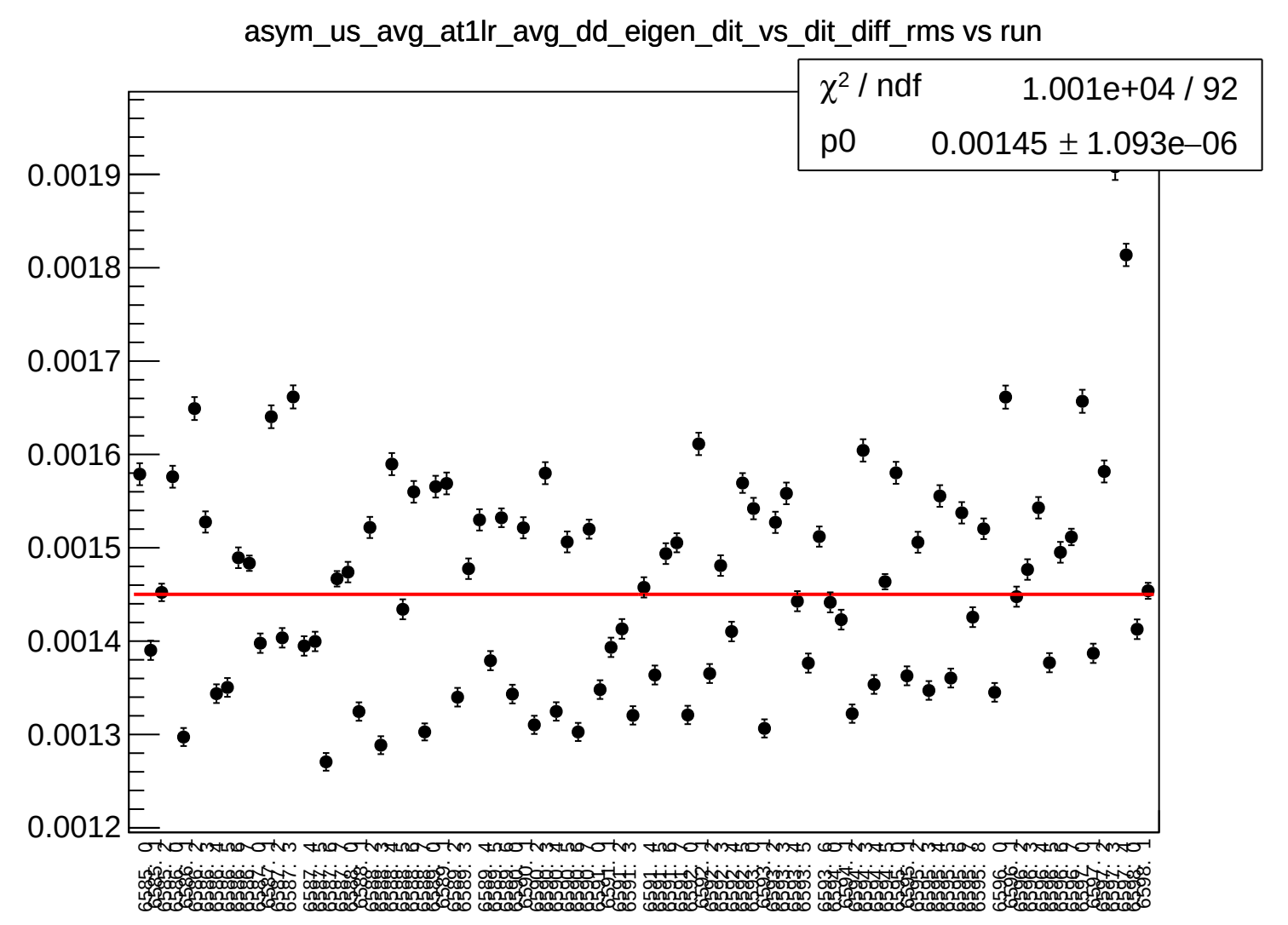

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.723e+05 / 92
p0 39.06 ± 0.03191
160
140
120
100
80
60
40
20

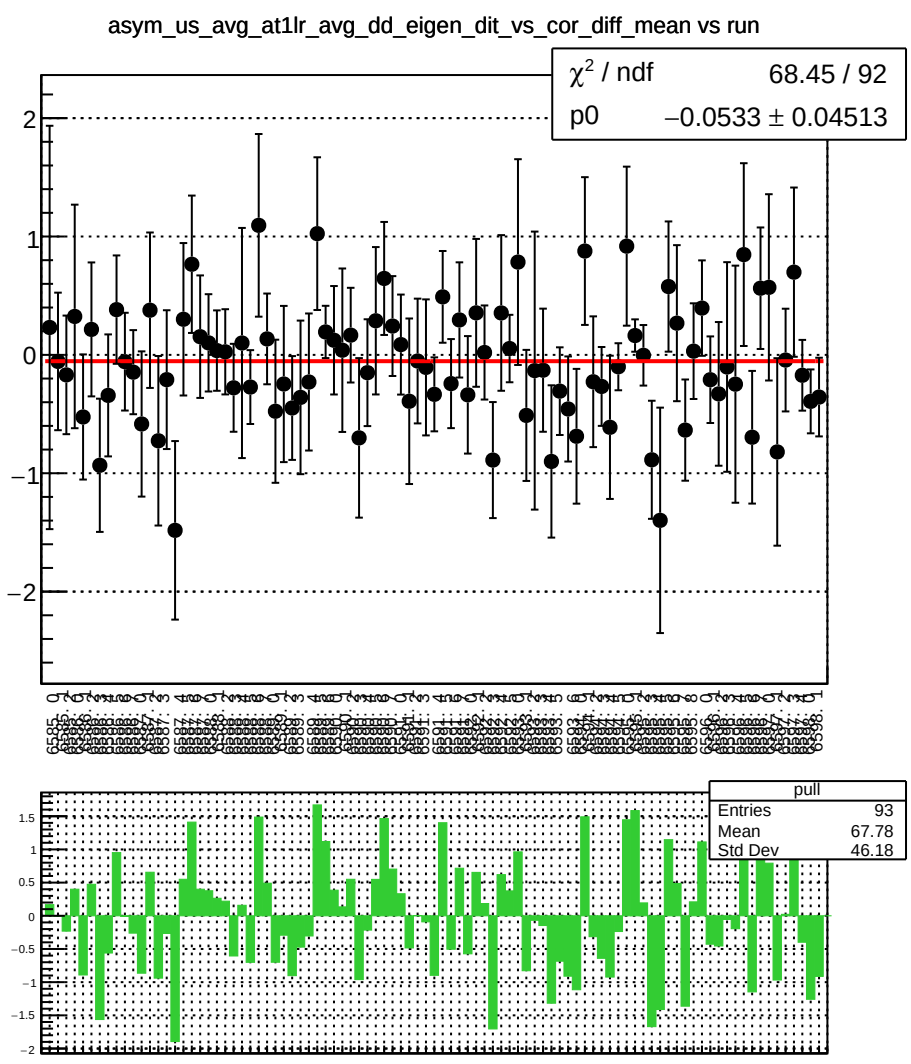

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.45 / 92
p0 −0.0533 ± 0.04513
pull
Entries 93
Mean 67.78
Std Dev 46.18

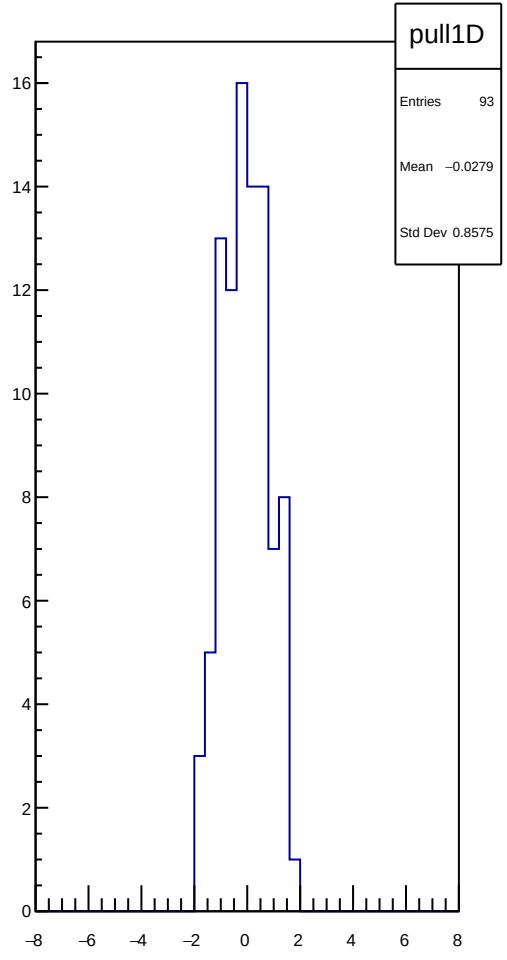

pull1D
Entries 93
Mean −0.0279
Std Dev 0.8575

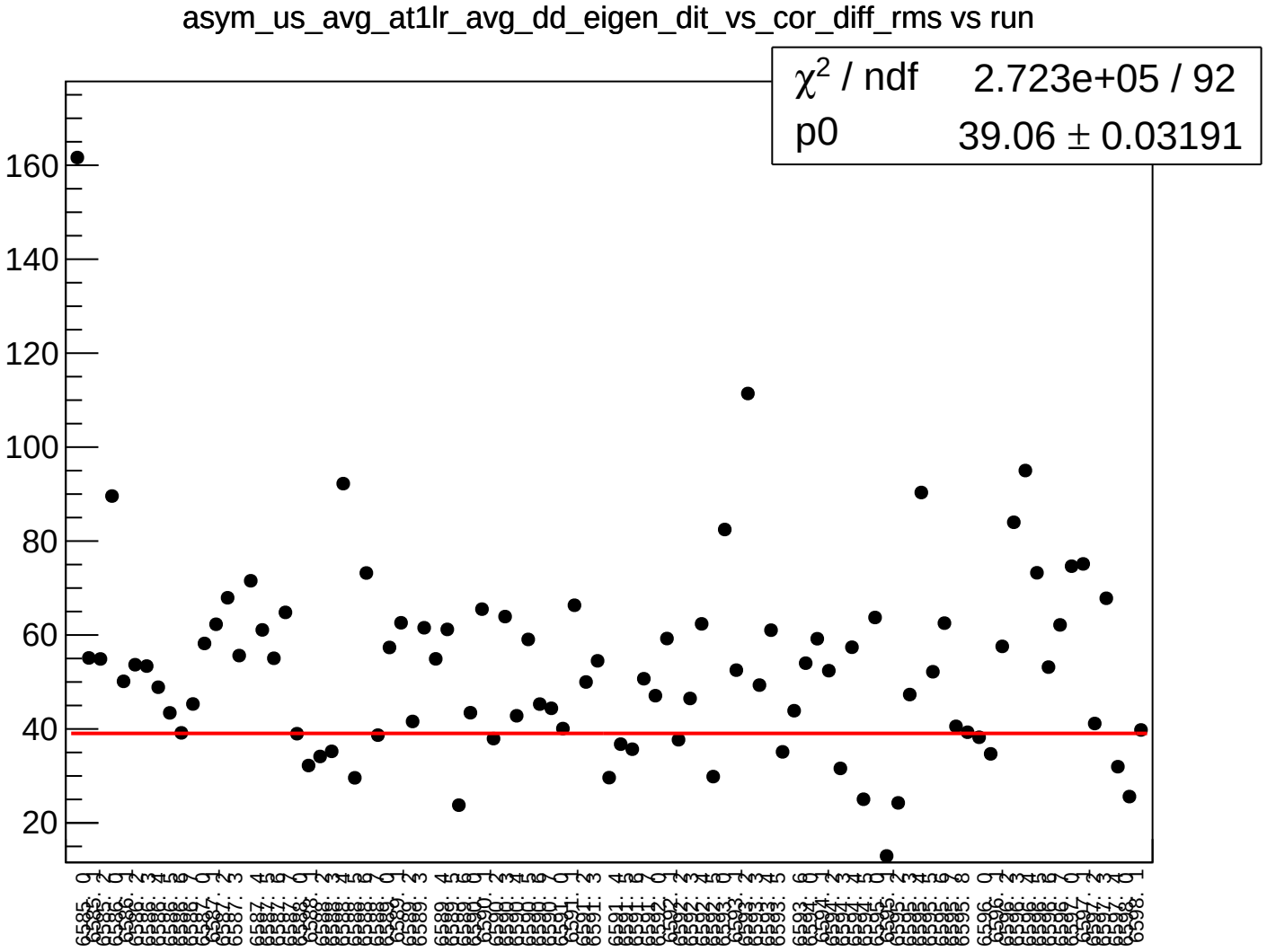

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.723e+05 / 92
p0 39.06 ± 0.03191
160
140
120
100
80
60
40
20

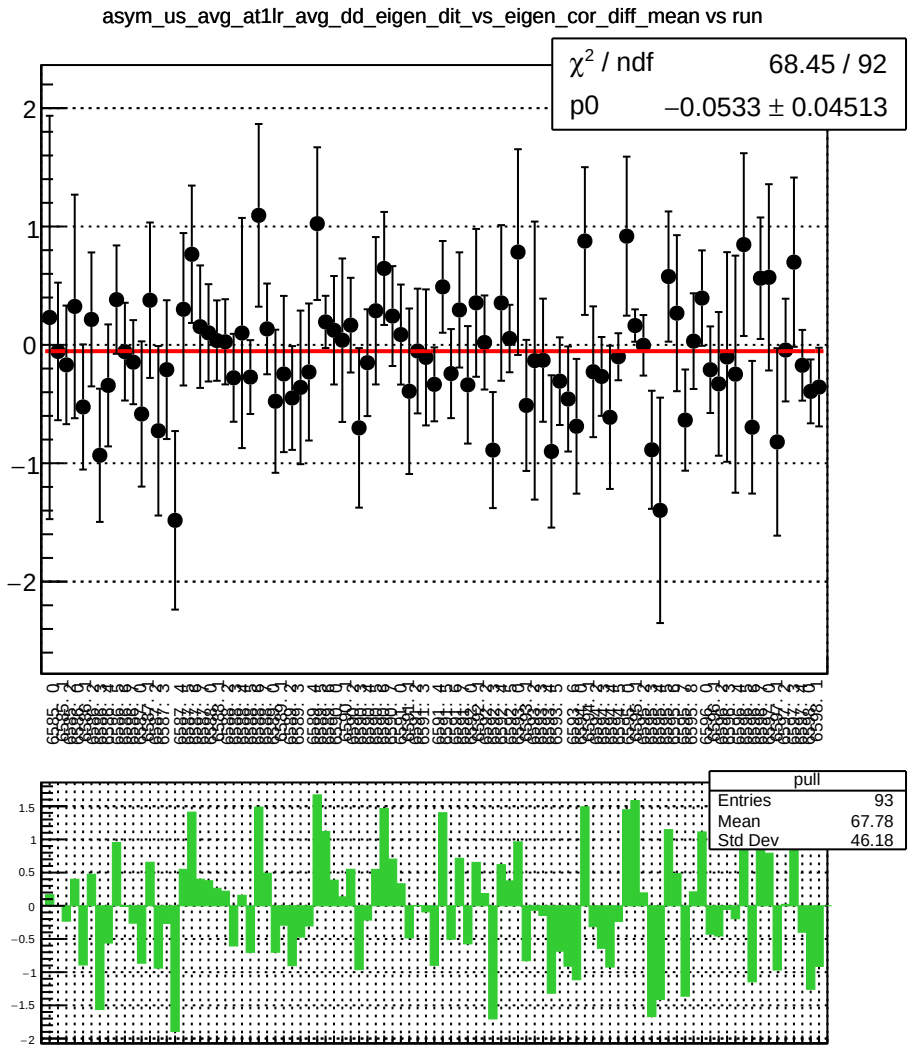

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.29 / 92
p0 1.158e−06 ± 1.546e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 412.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003081
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

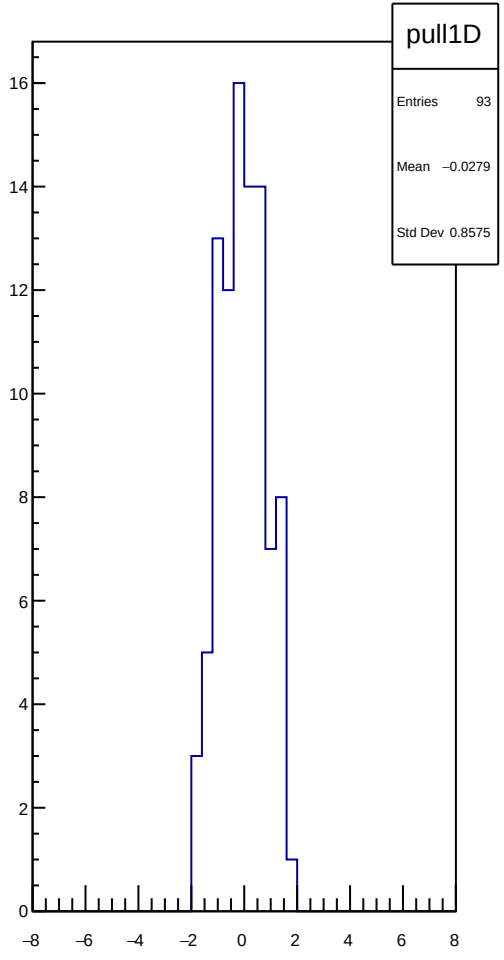

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.001e+04 / 92
p0 0.00145 ± 1.093e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

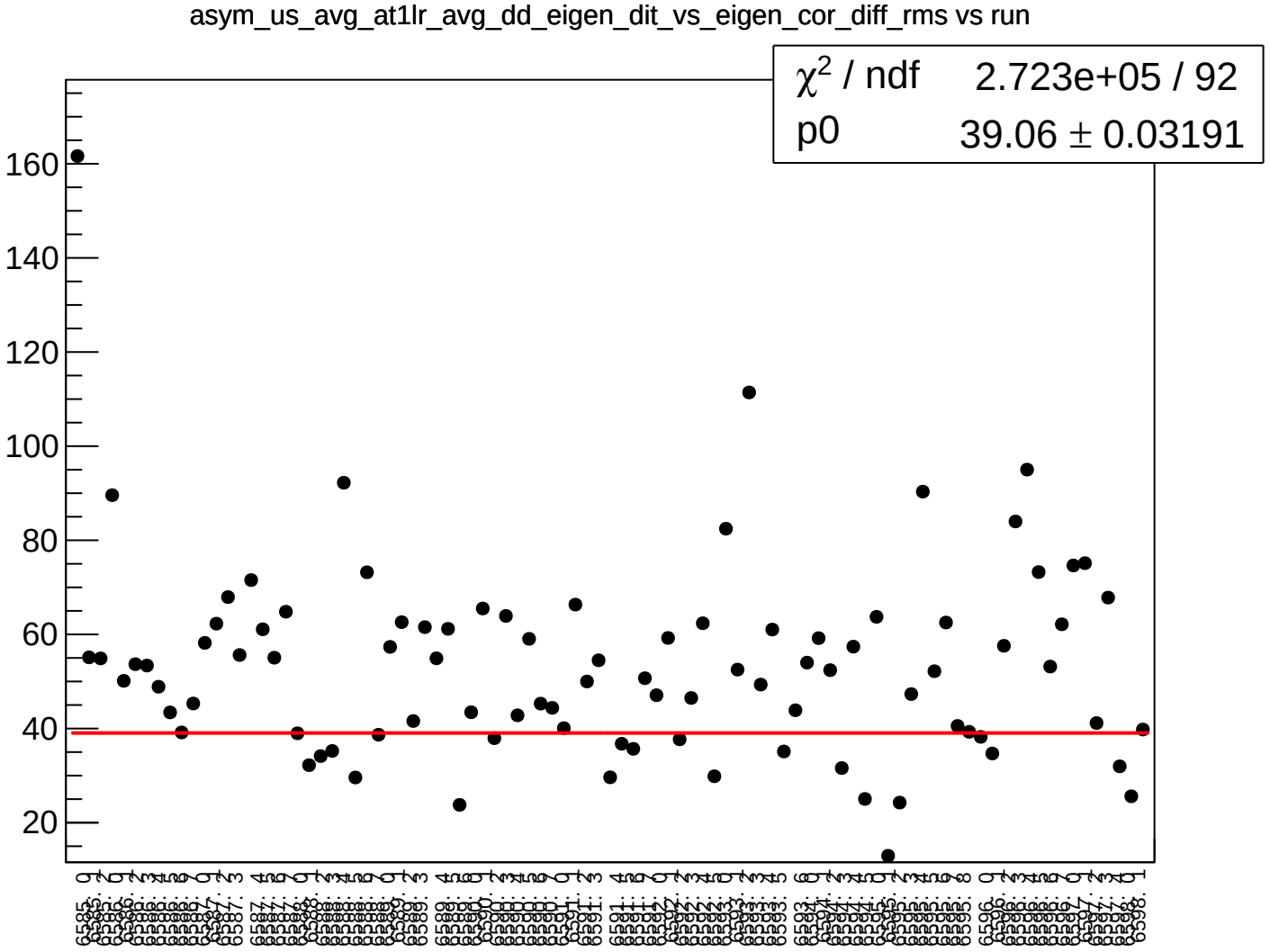

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.45 / 92
p0 −0.0533 ± 0.04513
pull
Entries 93
Mean 67.78
Std Dev 46.18

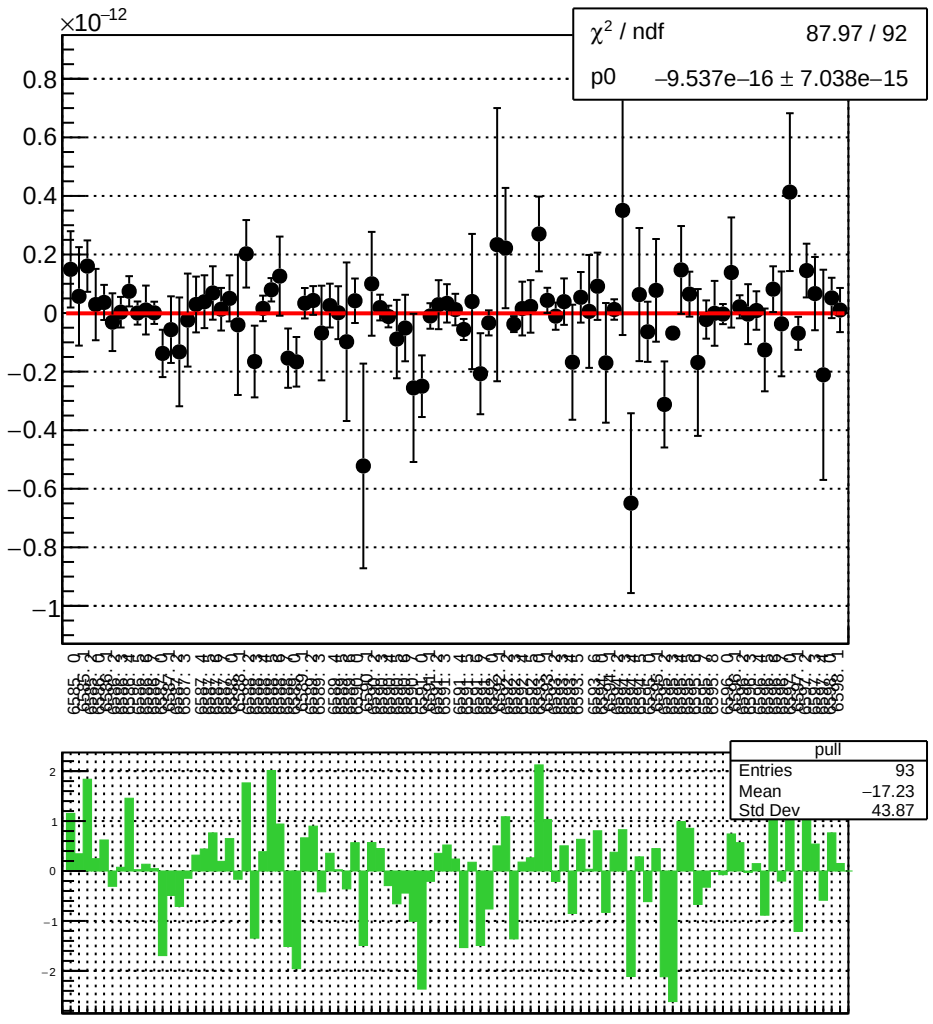

pull1D
Entries 93
Mean −0.0279
Std Dev 0.8575

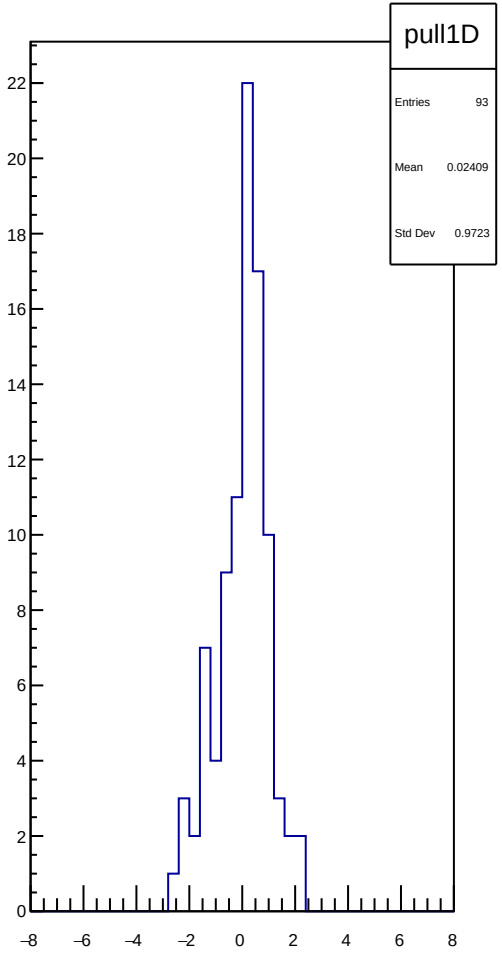

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.723e+05 / 92
p0 39.06 ± 0.03191
160
140
120
100
80
60
40
20

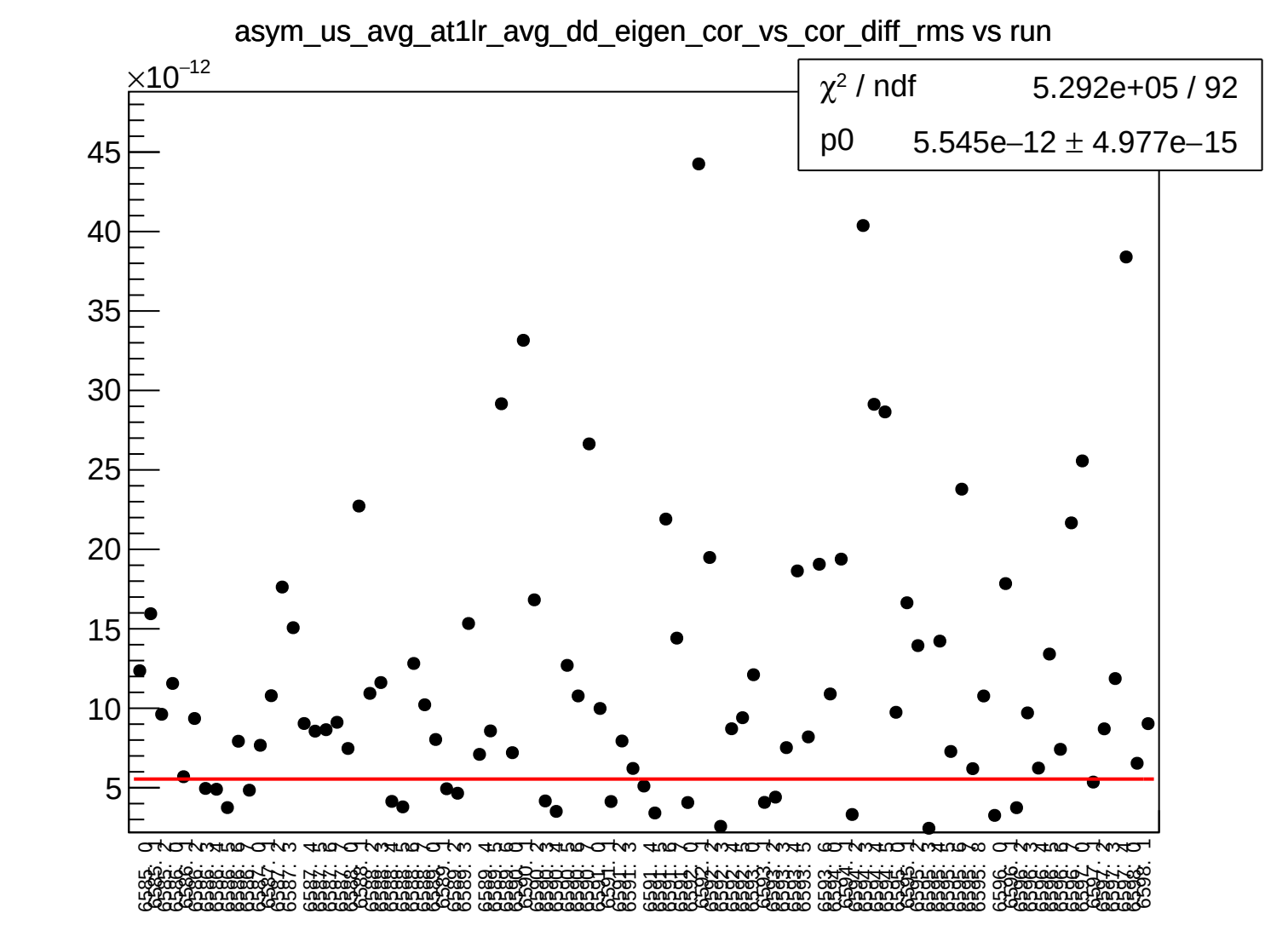

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.45 / 92
p0 −0.0533 ± 0.04513
pull
Entries 93
Mean 67.78
Std Dev 46.18

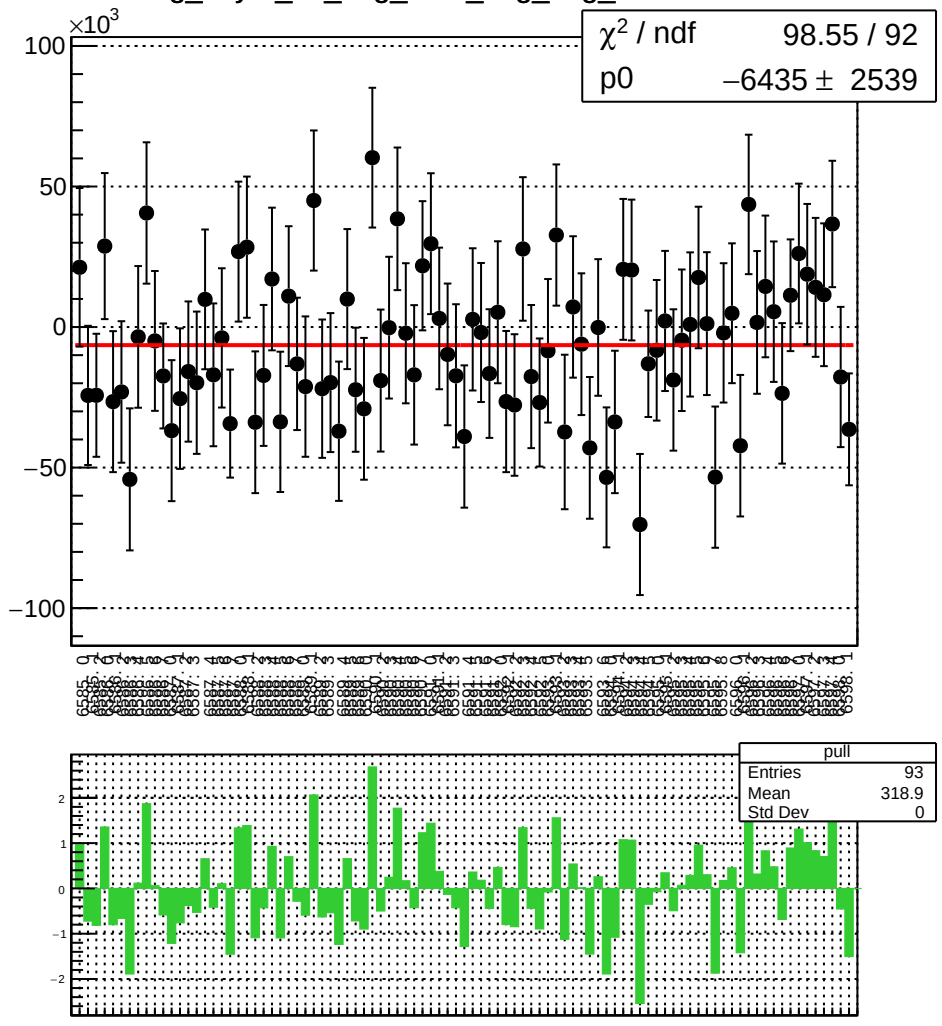

pull1D
Entries 93
Mean −0.0279
Std Dev 0.8575

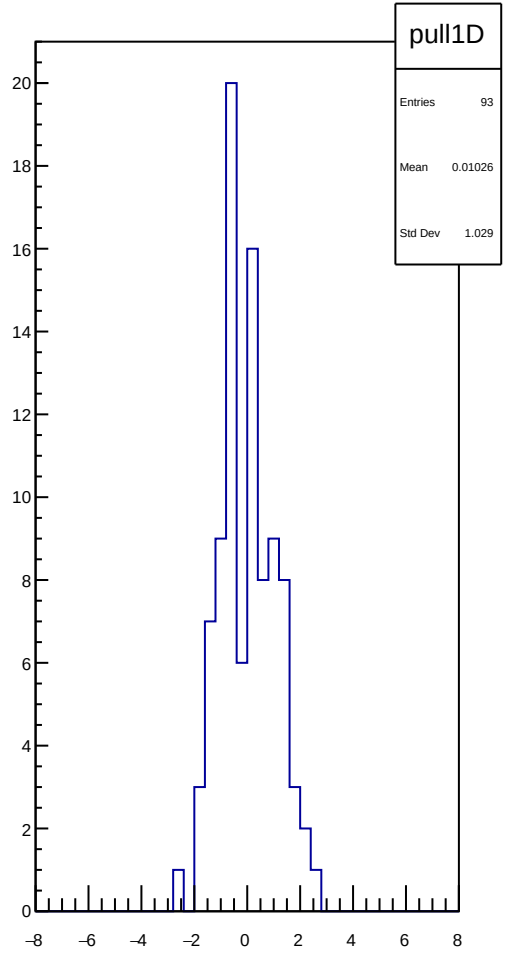

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.723e+05 / 92
p0 39.06 ± 0.03191
160
140
120
100
80
60
40
20

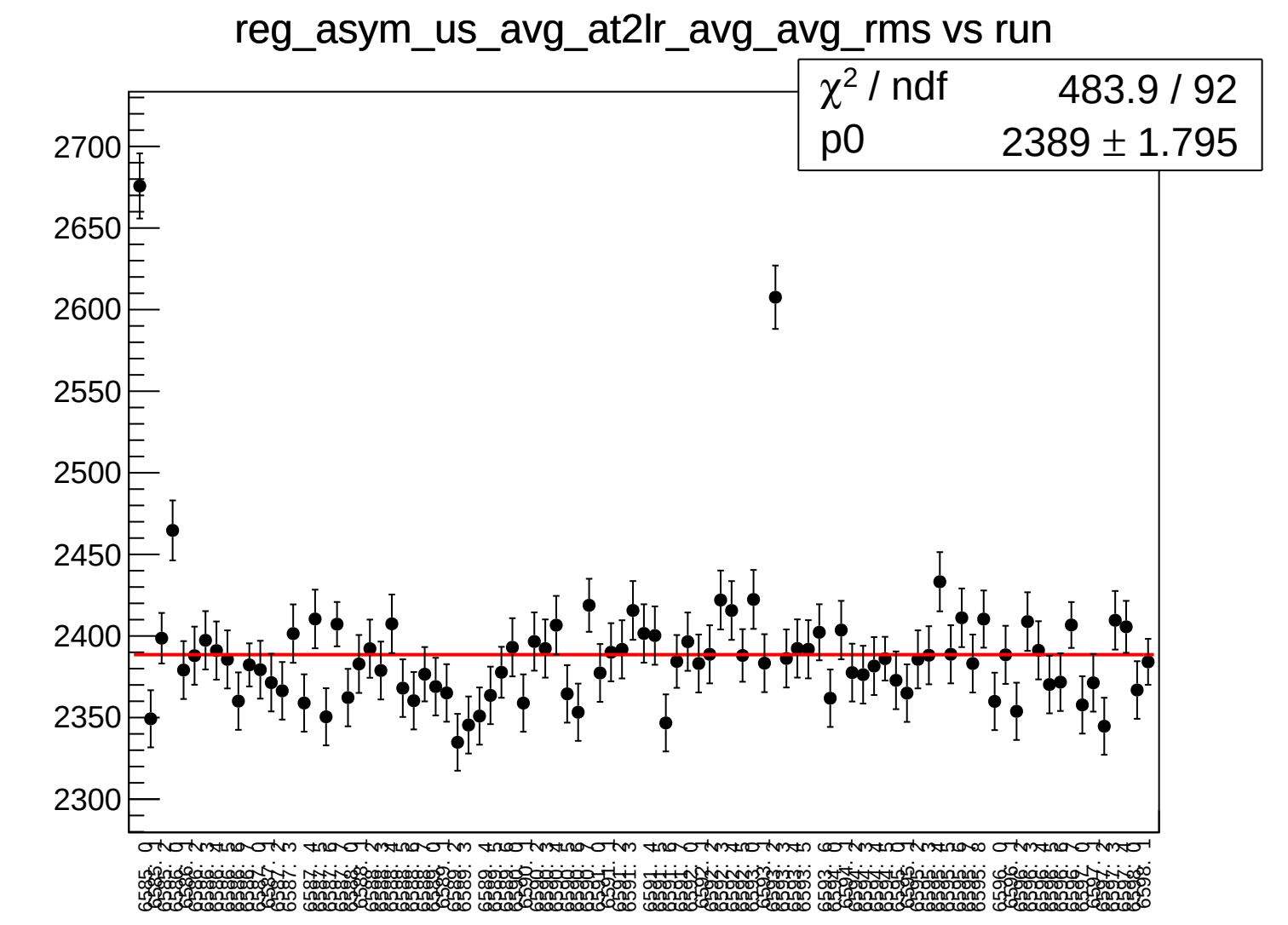

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.97 / 92
p0 −9.537e−16 ± 7.038e−15
pull
Entries 93
Mean −17.23
Std Dev 43.87

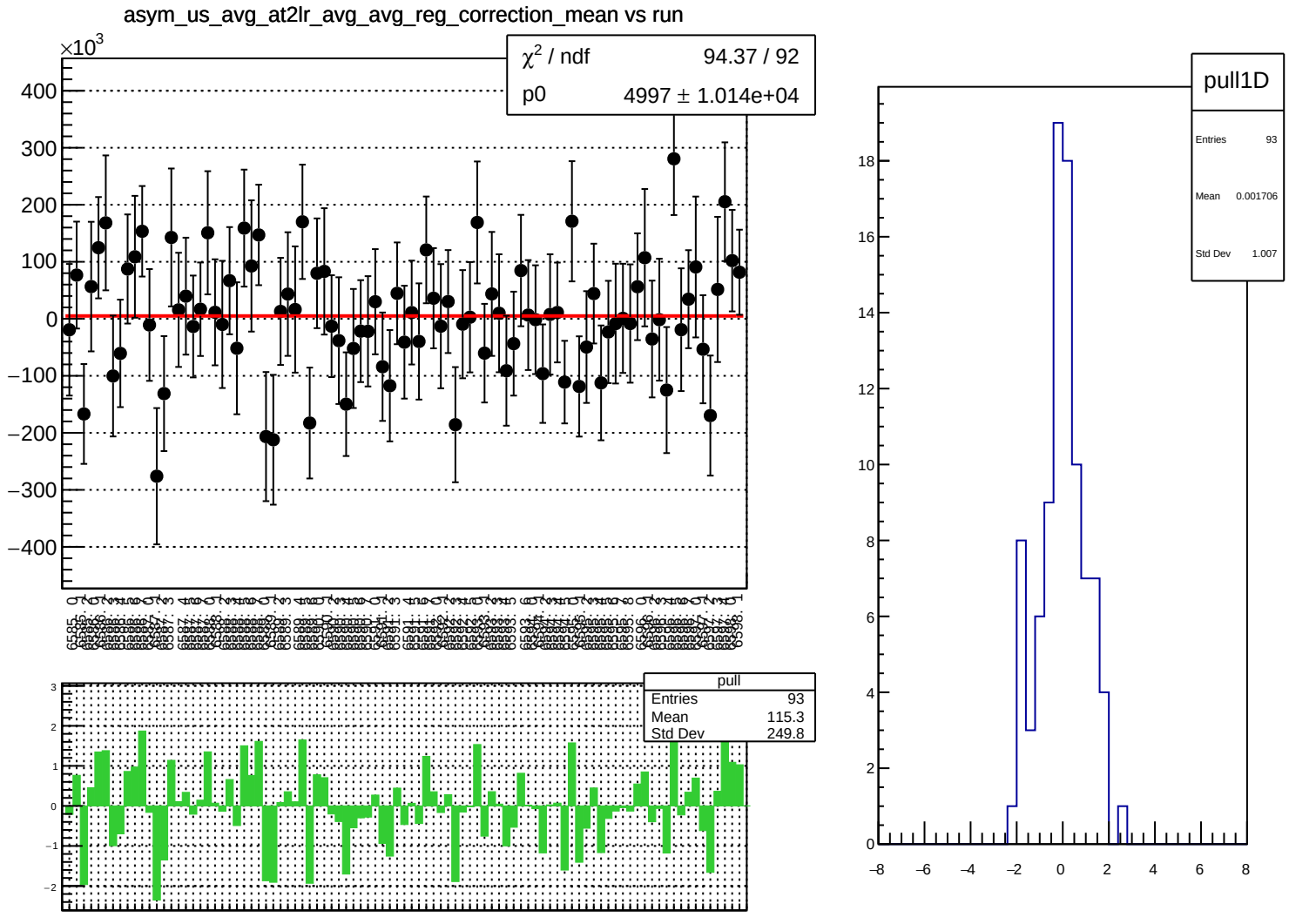

pull1D
Entries 93
Mean 0.02409
Std Dev 0.9723

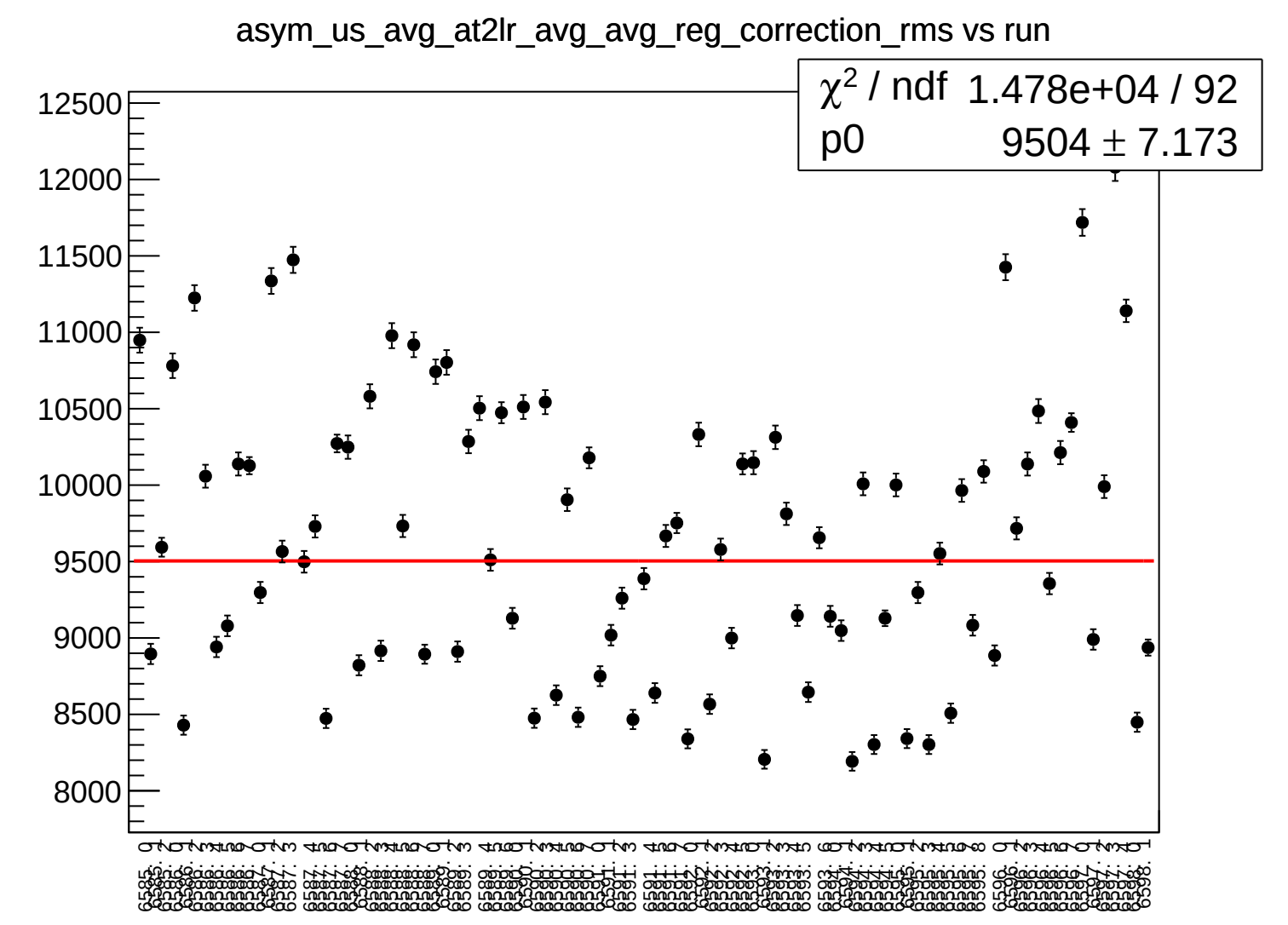

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.292e+05 / 92
p0 5.545e−12 ± 4.977e−15
45
40
35
30
25
20
15
10
5

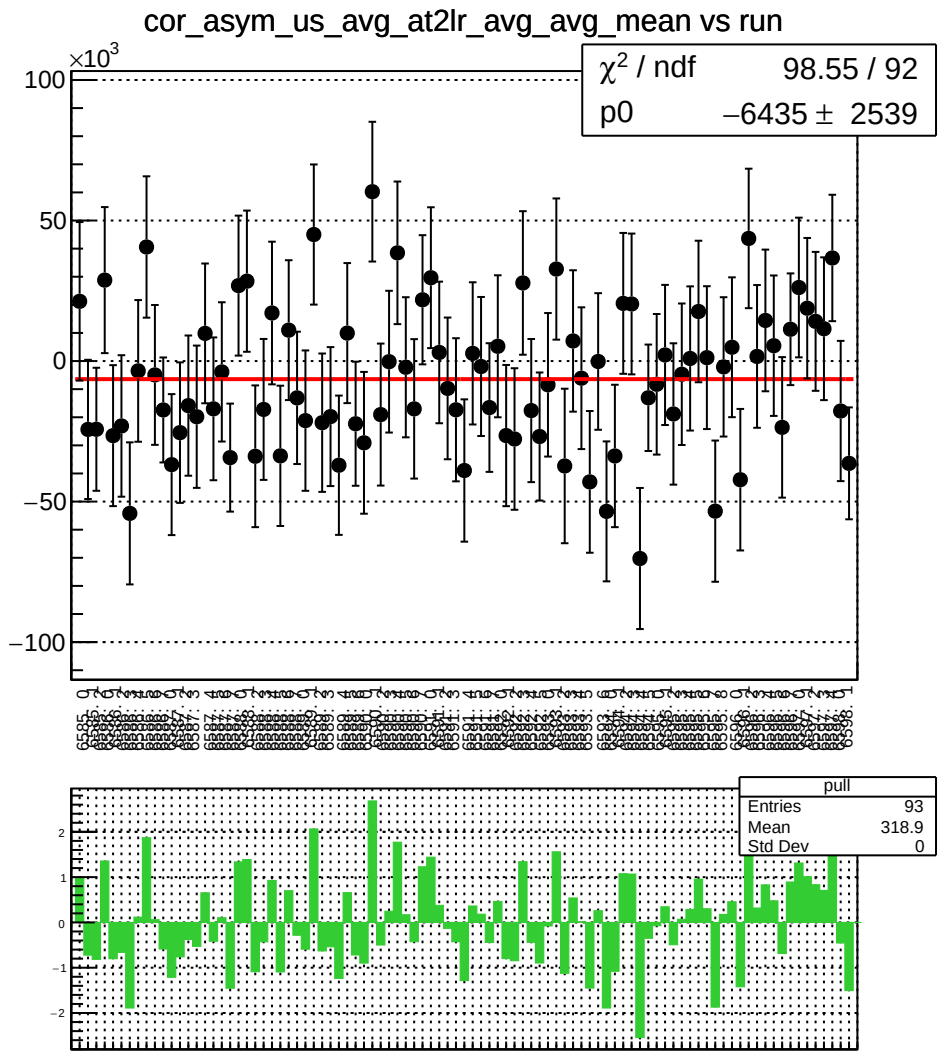

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 98.55 / 92
p0 −6435 ± 2539
pull
Entries 93
Mean 318.9
Std Dev 0
2
1
0
−1
−2

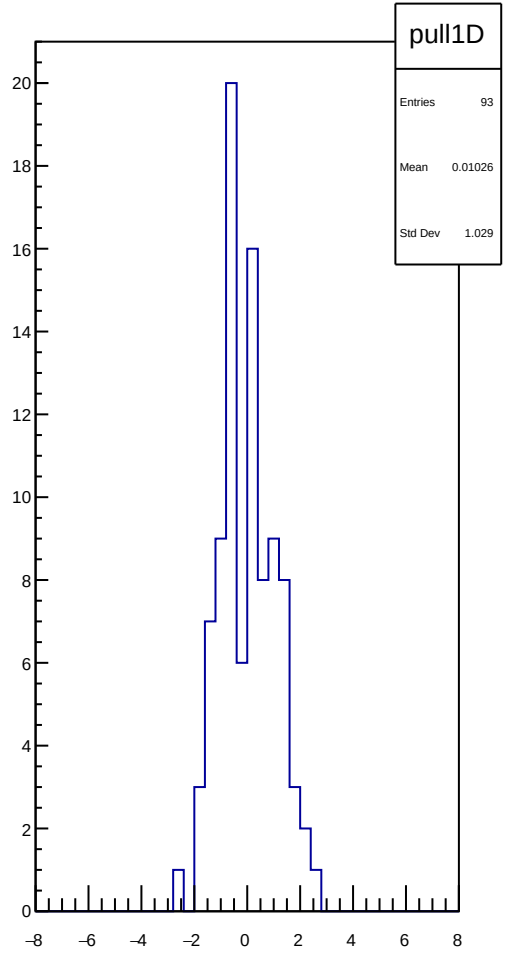

pull1D
Entries 93
Mean 0.01026
Std Dev 1.029
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

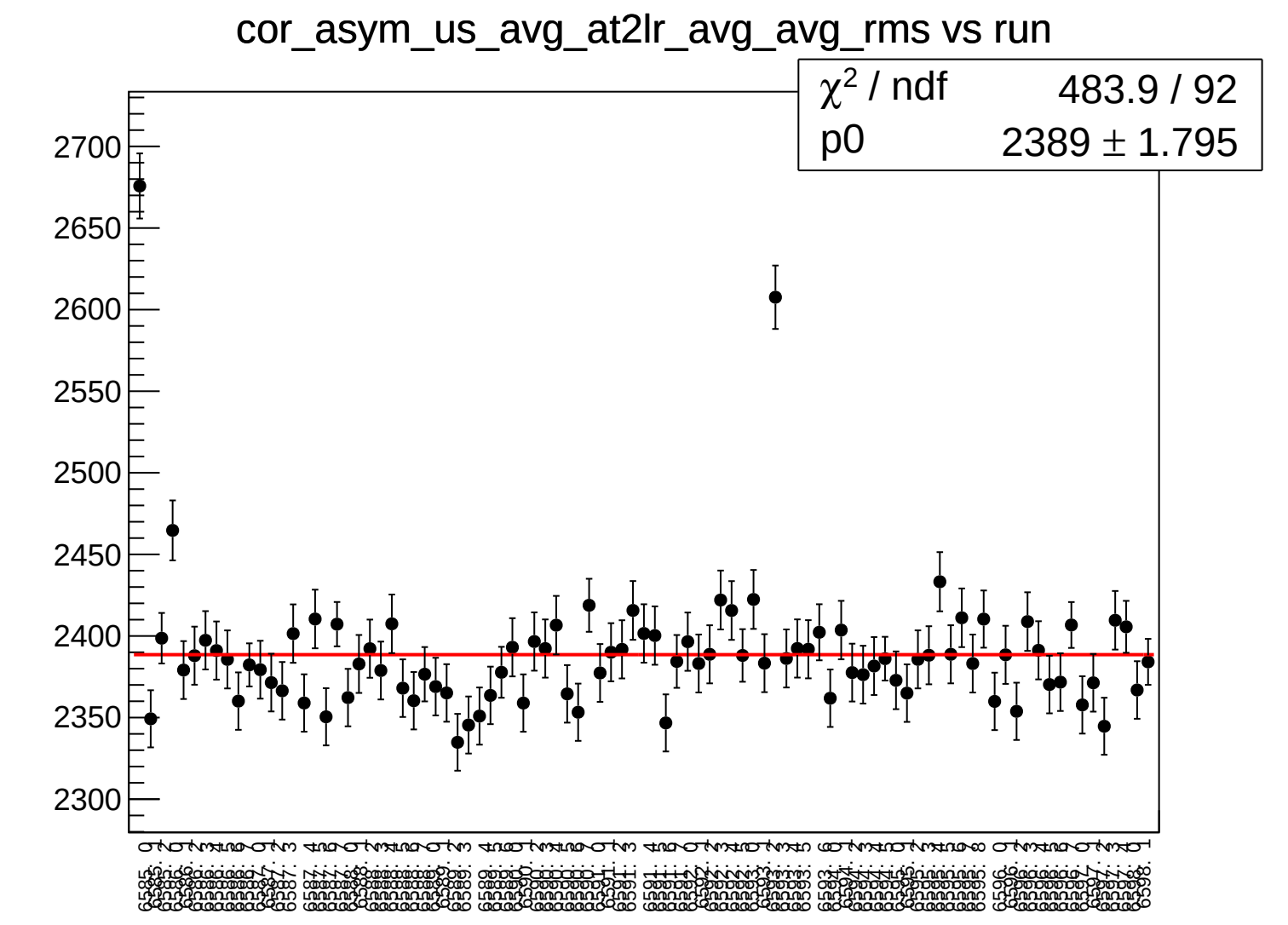

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 483.9 / 92
p0 2389 ± 1.795
2700
2650
2600
2550
2500
2450
2400
2350
2300

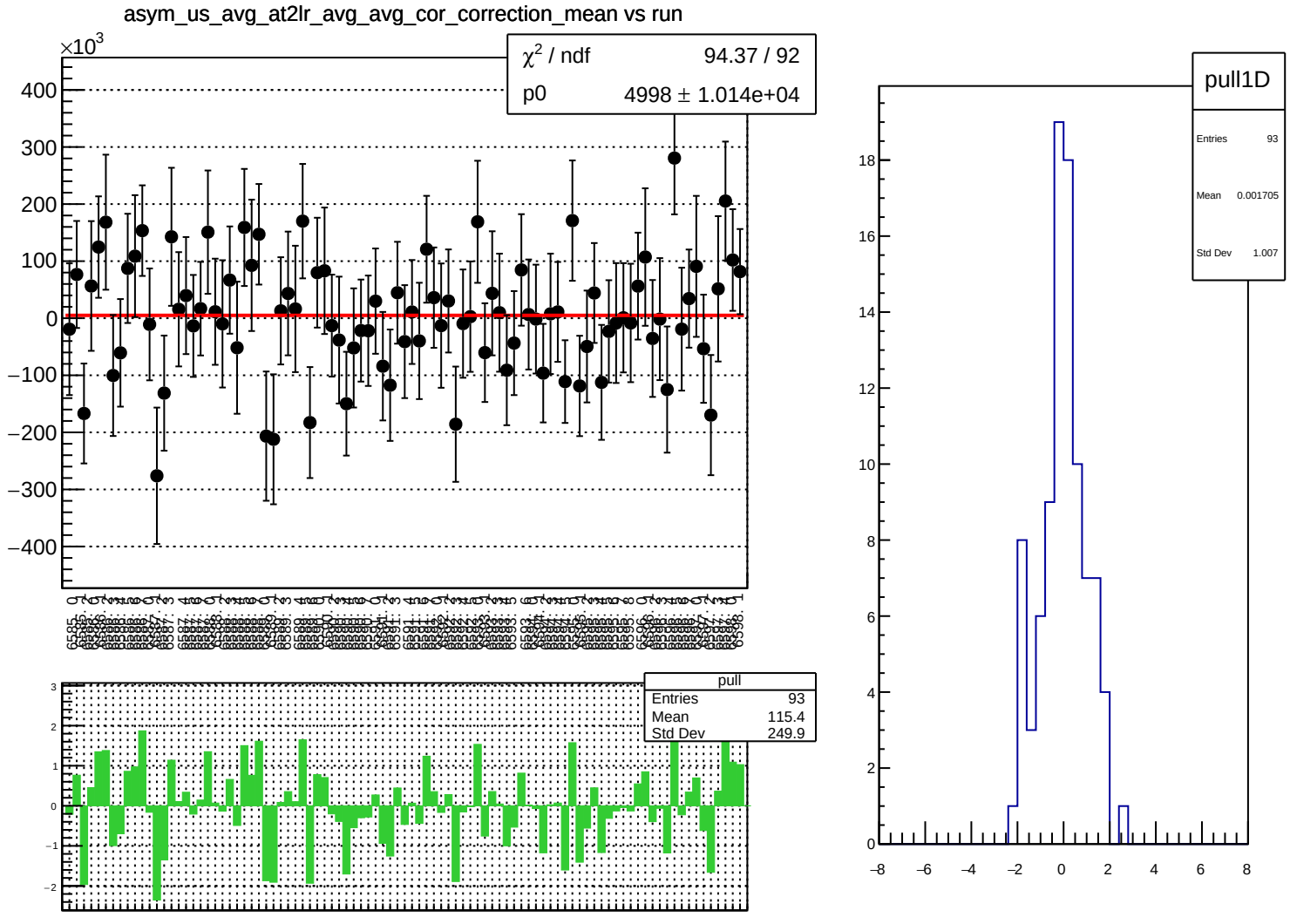

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.37 / 92
p0 4997 ± 1.014e+04
pull
Entries 93
Mean 115.3
Std Dev 249.8
pull1D
Entries 93
Mean 0.001706
Std Dev 1.007

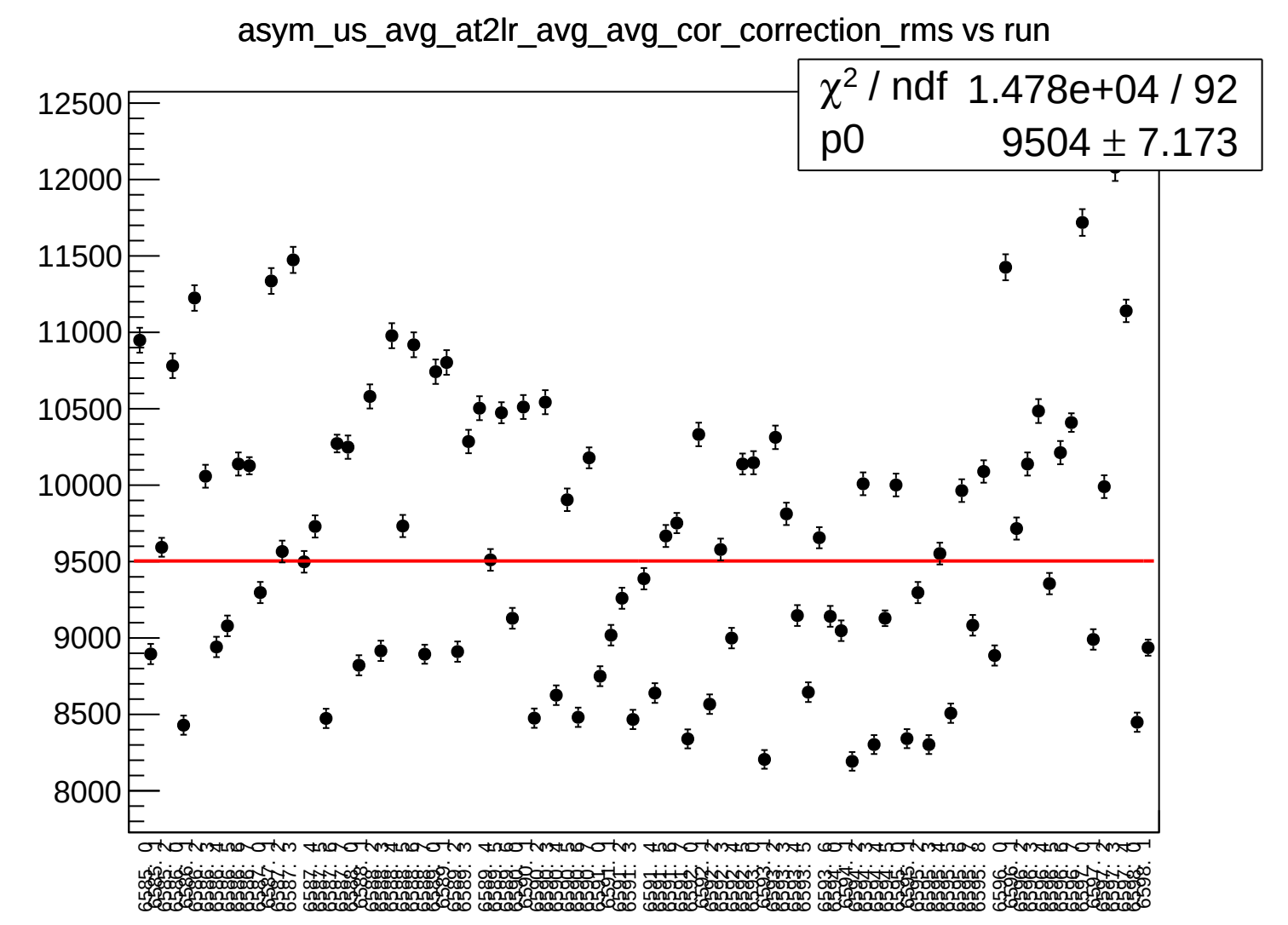

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.478e+04 / 92
p0 9504 ± 7.173
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000

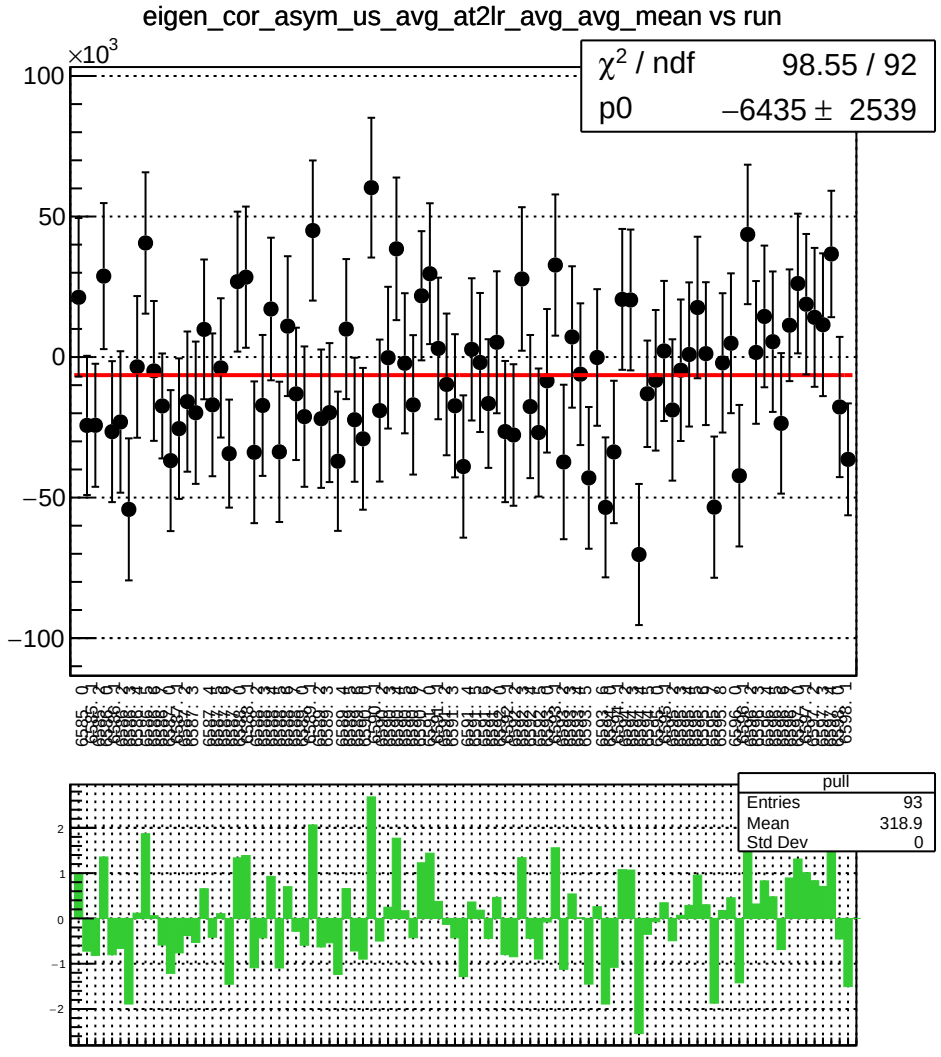

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 98.55 / 92
p0 −6435 ± 2539
pull
Entries 93
Mean 318.9
Std Dev 0
2
1
0
−1
−2

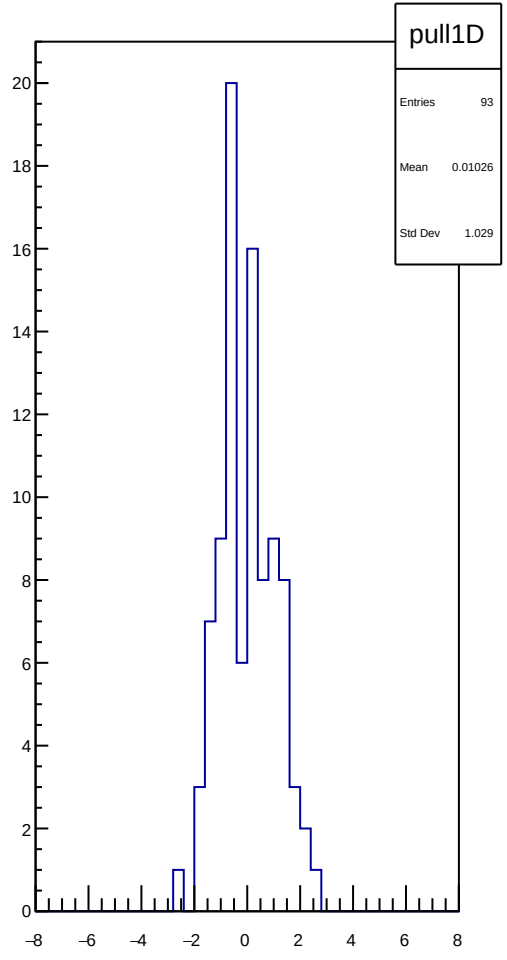

pull1D
Entries 93
Mean 0.01026
Std Dev 1.029
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

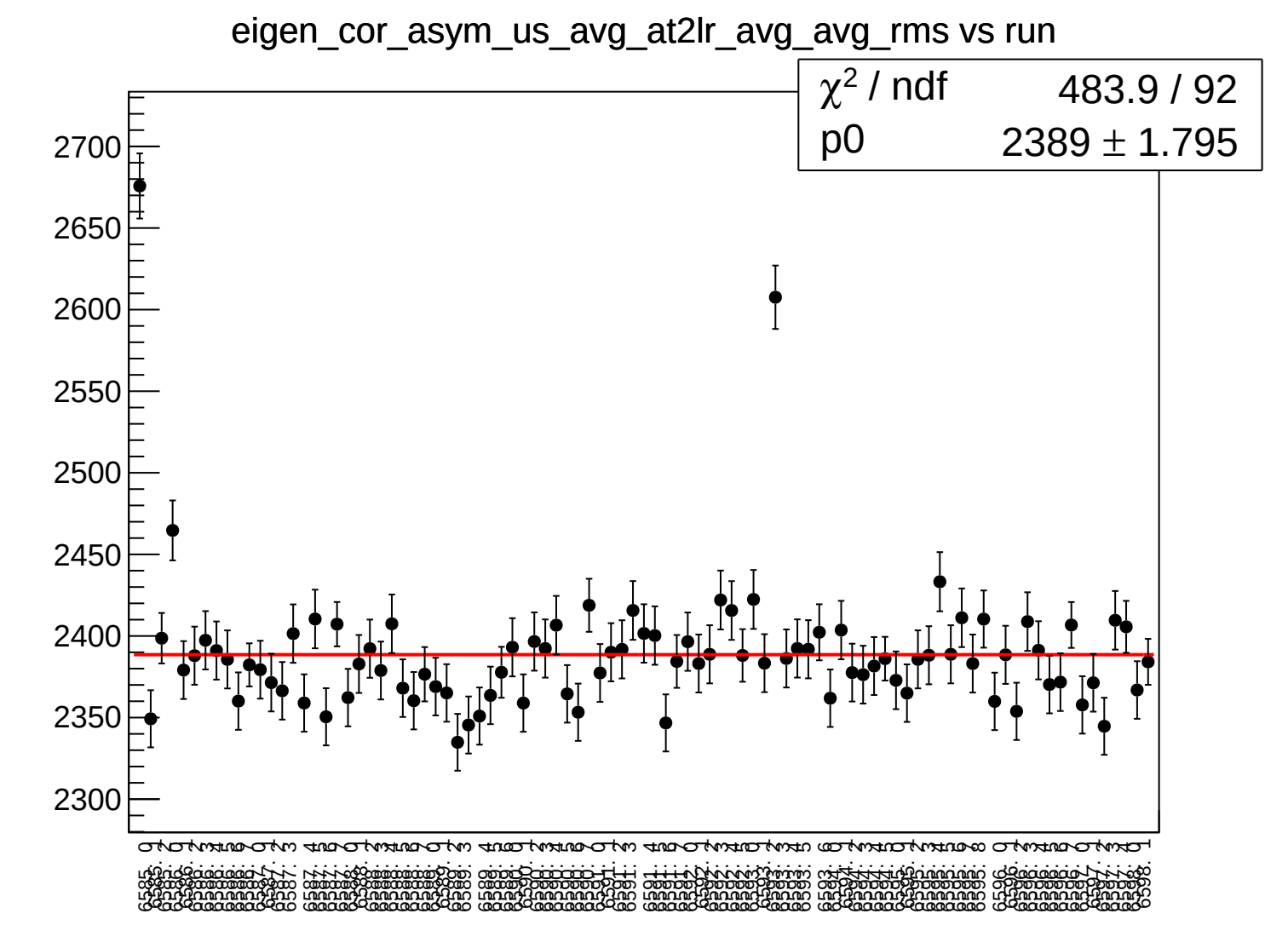

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 483.9 / 92
p0 2389 ± 1.795
2700
2650
2600
2550
2500
2450
2400
2350
2300

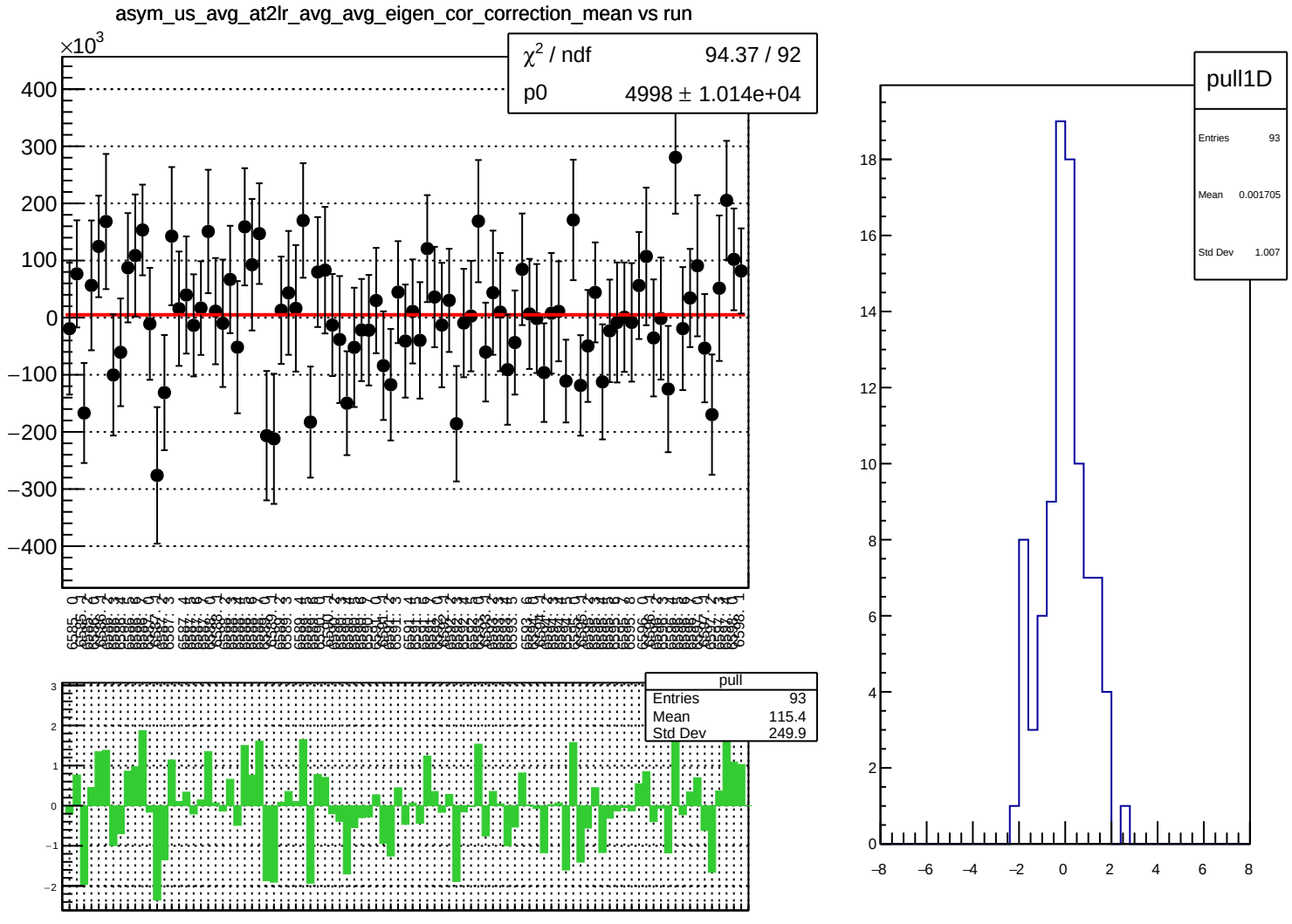

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.37 / 92
p0 4998 ± 1.014e+04
pull
Entries 93
Mean 115.4
Std Dev 249.9
pull1D
Entries 93
Mean 0.001705
Std Dev 1.007

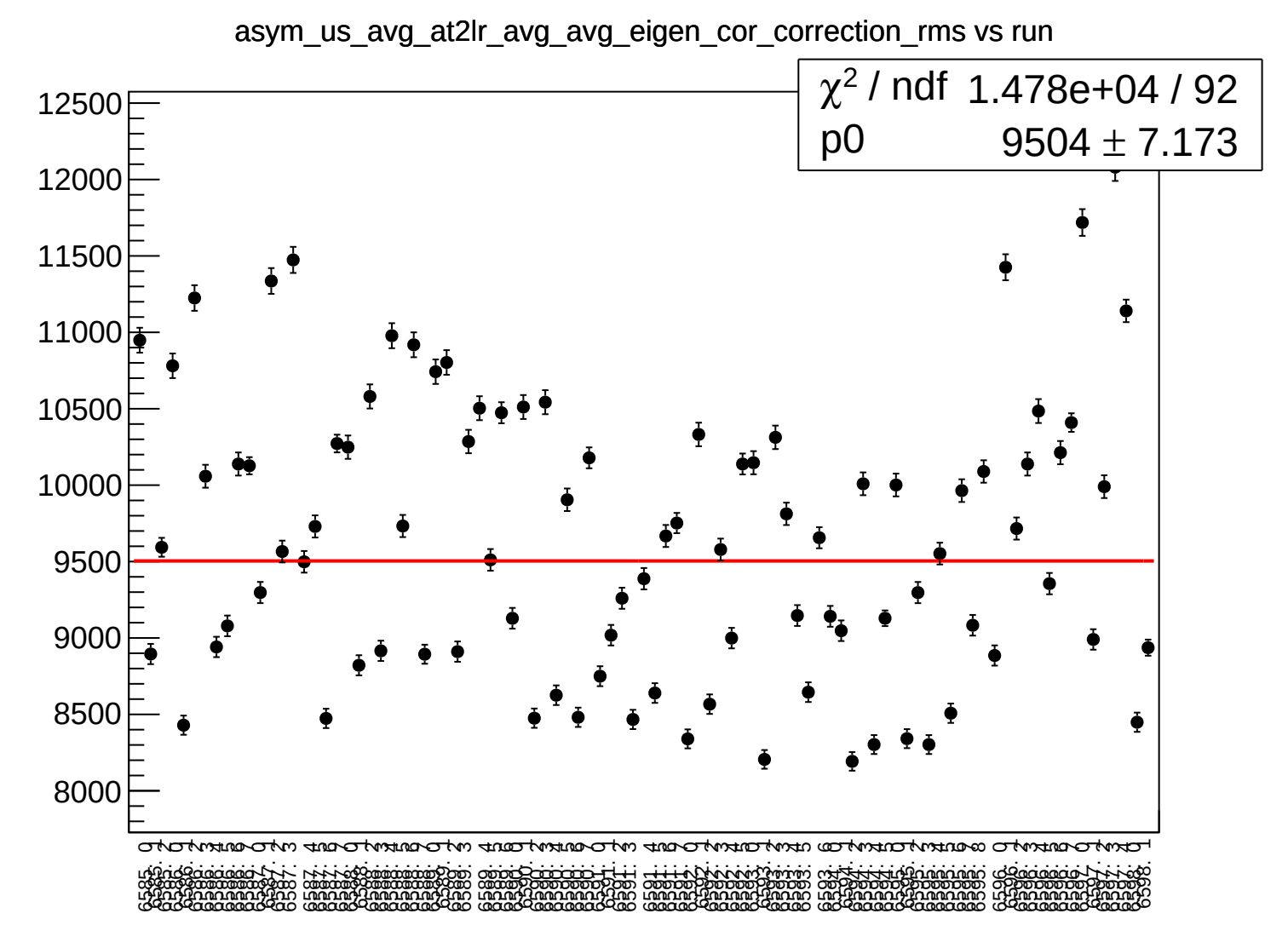

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.478e+04 / 92
p0 9504 ± 7.173
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000

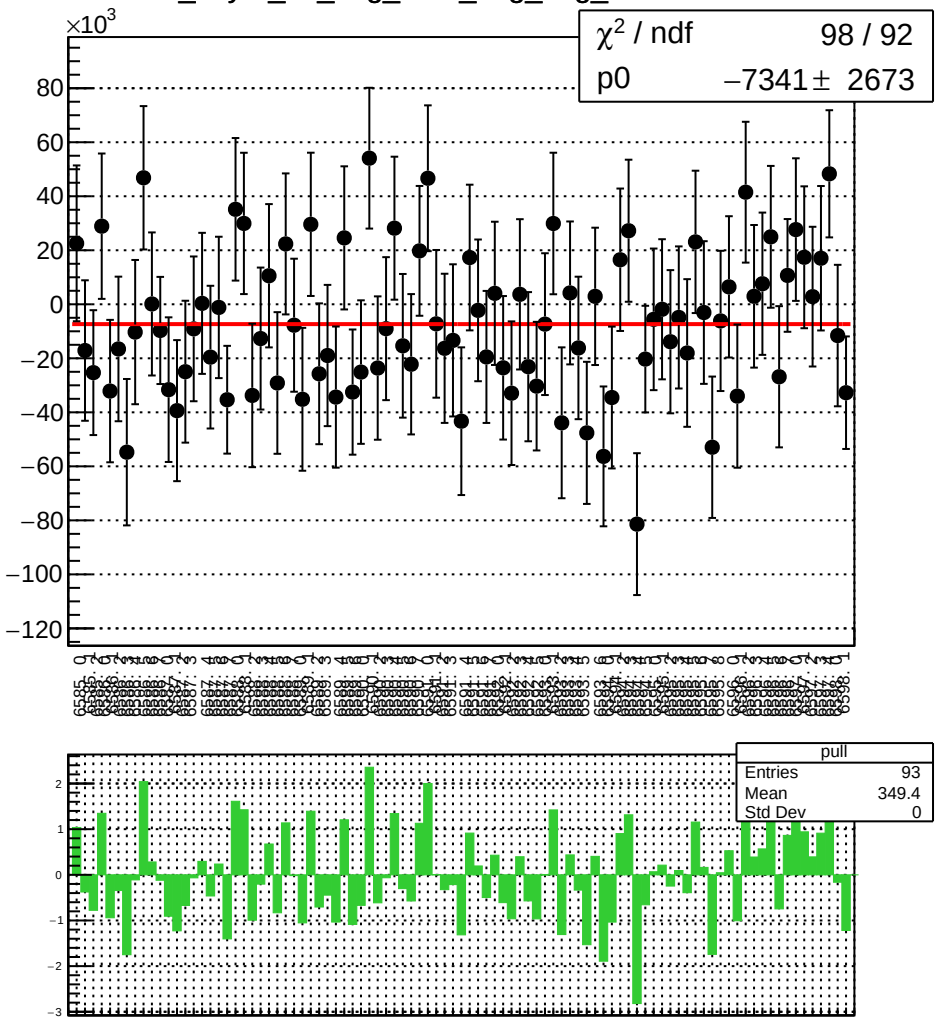

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 98.55 / 92
p0 −6435 ± 2539
pull
Entries 93
Mean 318.9
Std Dev 0
2
1
0
−1
−2

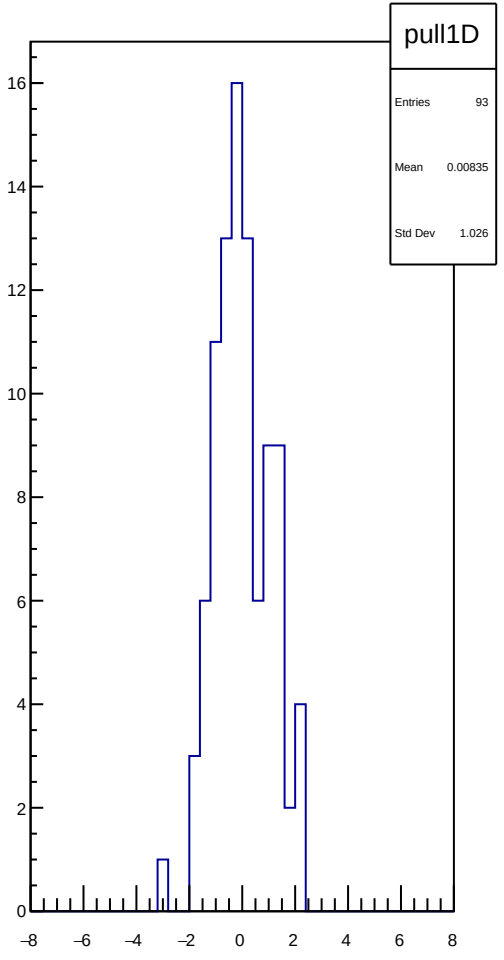

pull1D
Entries 93
Mean 0.01026
Std Dev 1.029
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

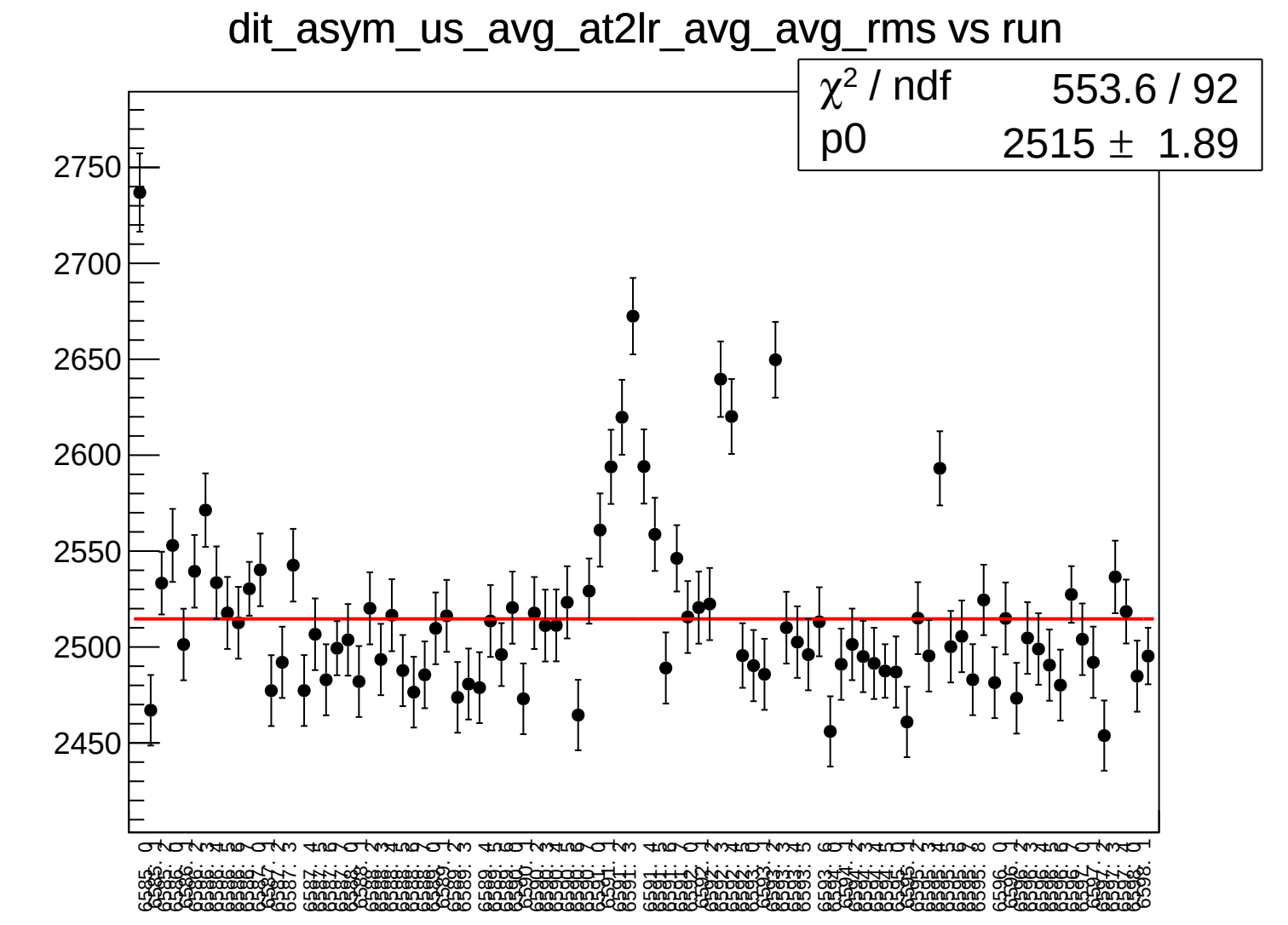

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 483.9 / 92
p0 2389 ± 1.795
2700
2650
2600
2550
2500
2450
2400
2350
2300

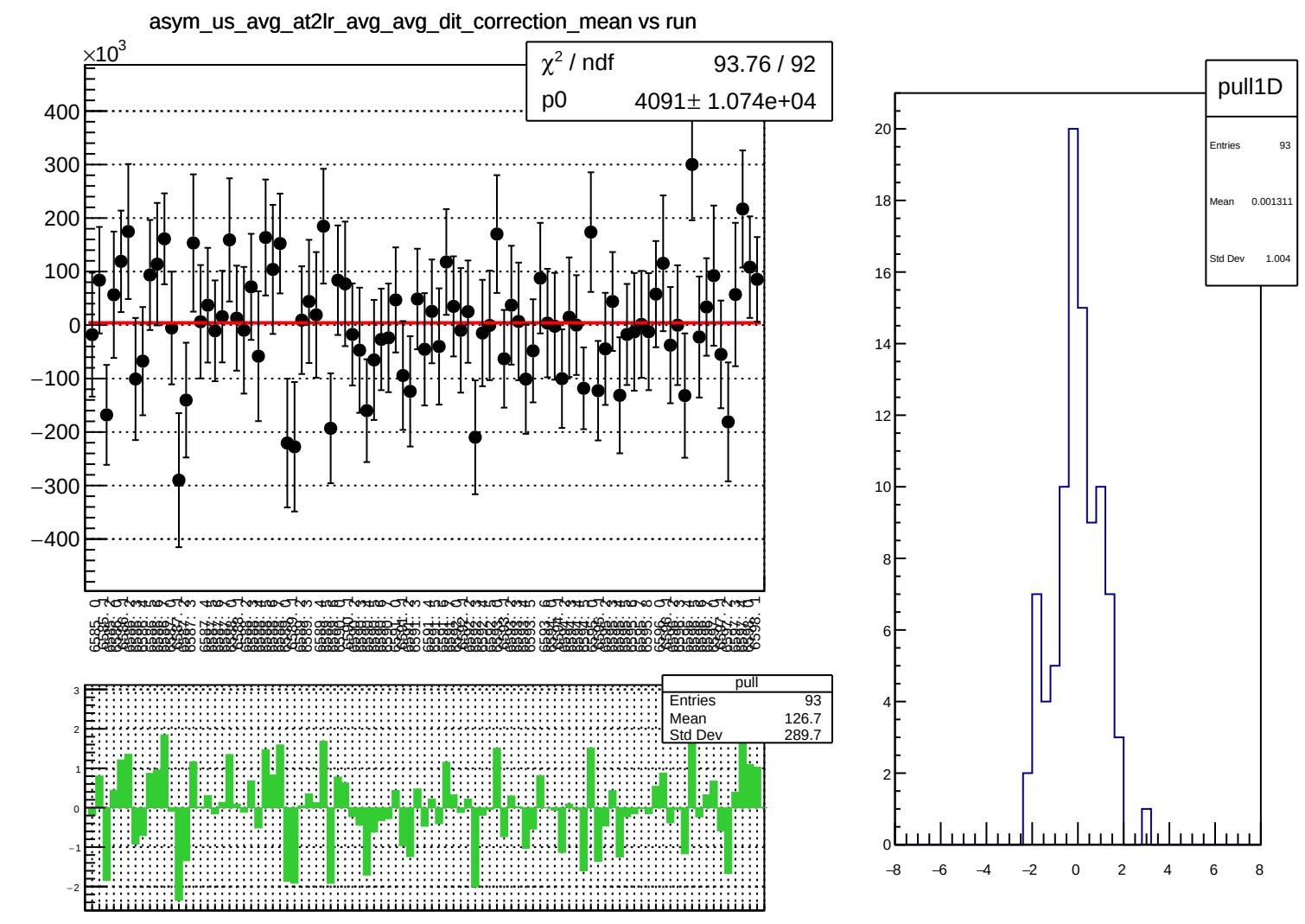

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.37 / 92
p0 4998 ± 1.014e+04
pull
Entries 93
Mean 115.4
Std Dev 249.9
pull1D
Entries 93
Mean 0.001705
Std Dev 1.007

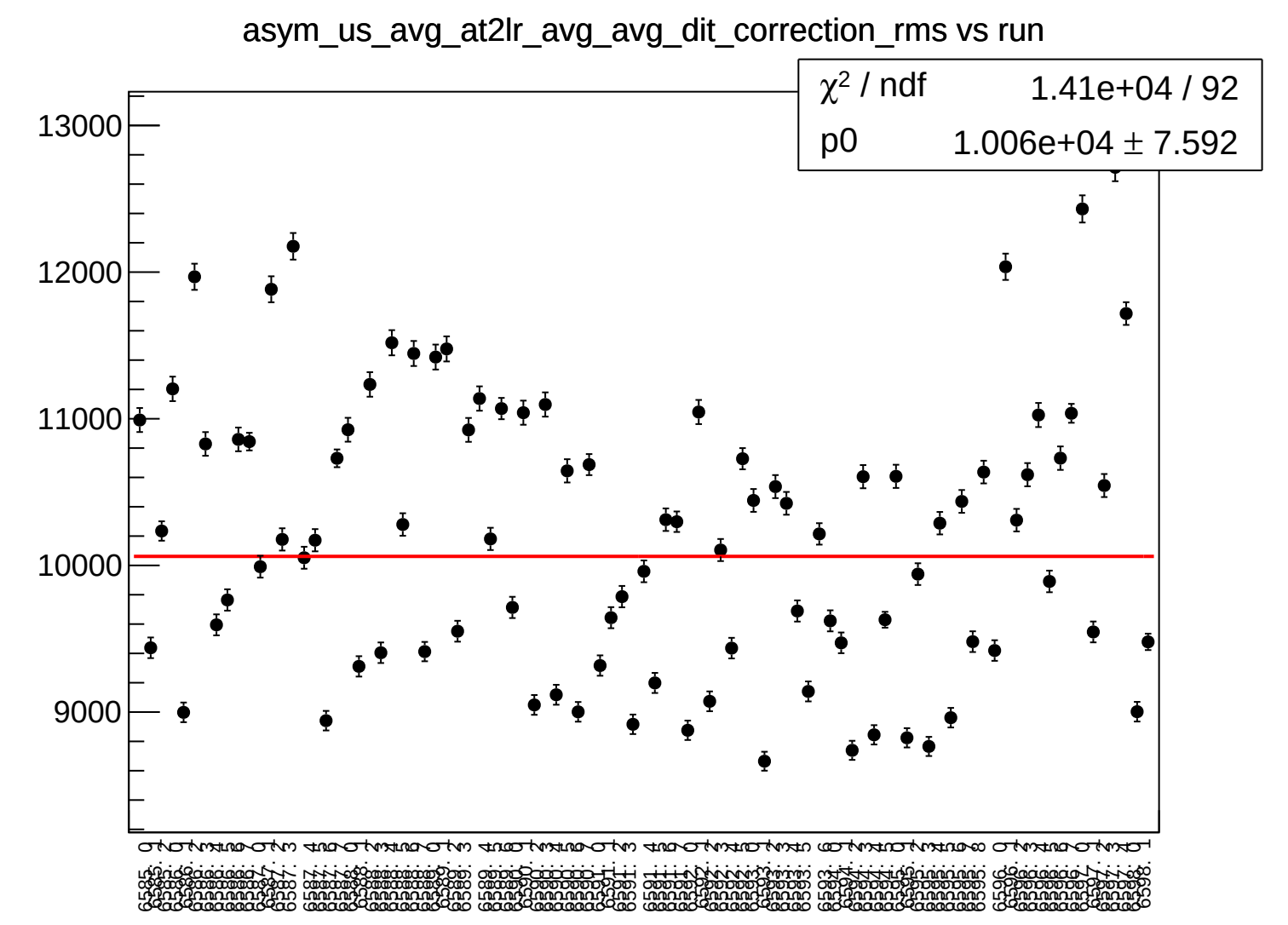

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.478e+04 / 92
p0 9504 ± 7.173
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000

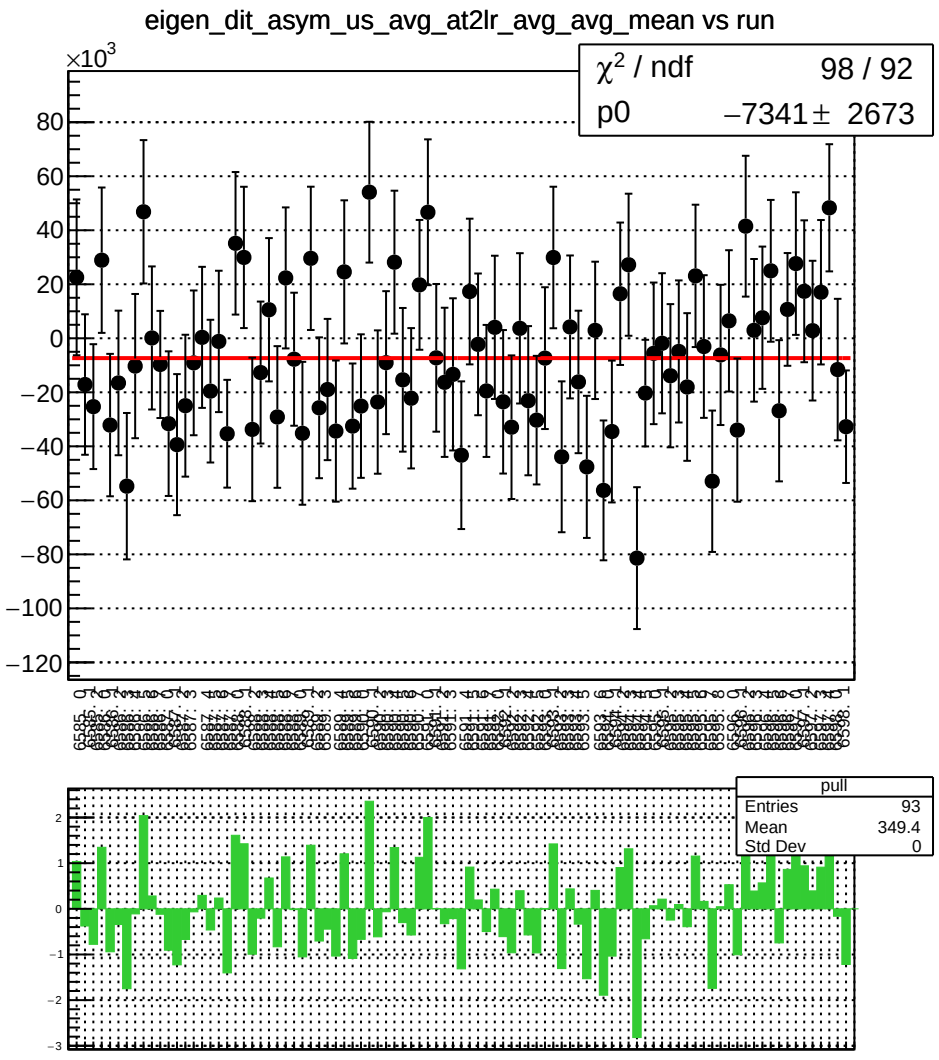

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 98 / 92
p0 −7341 ± 2673
pull
Entries 93
Mean 349.4
Std Dev 0

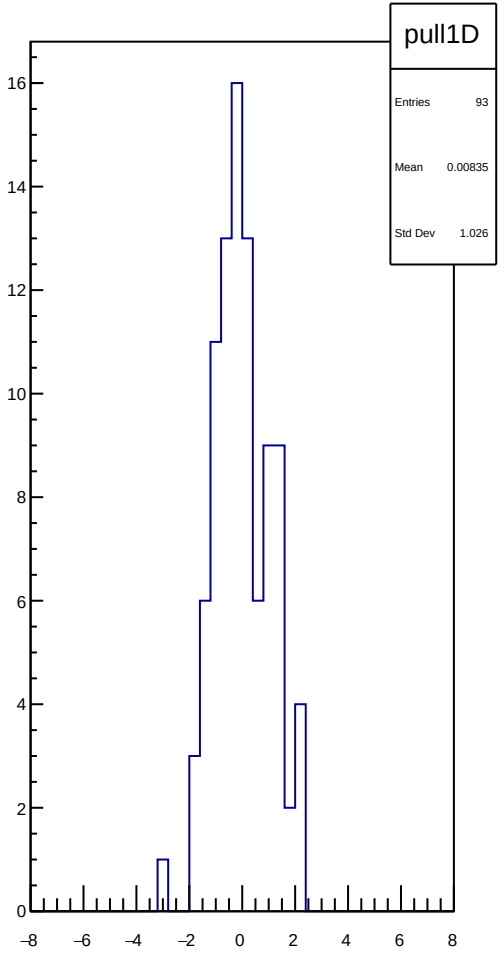

pull1D
Entries 93
Mean 0.00835
Std Dev 1.026

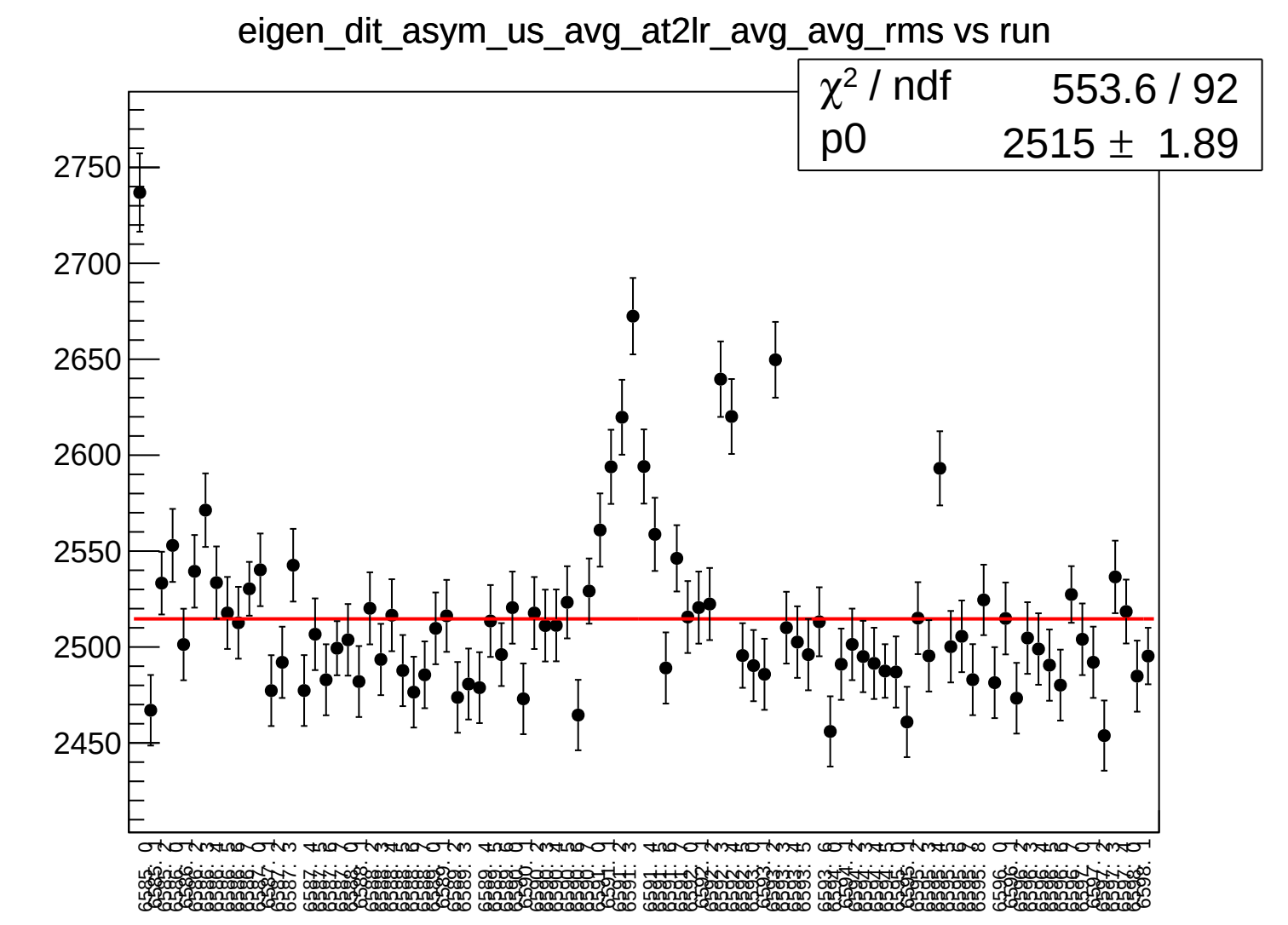

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 553.6 / 92
p0 2515 ± 1.89
2750
2700
2650
2600
2550
2500
2450

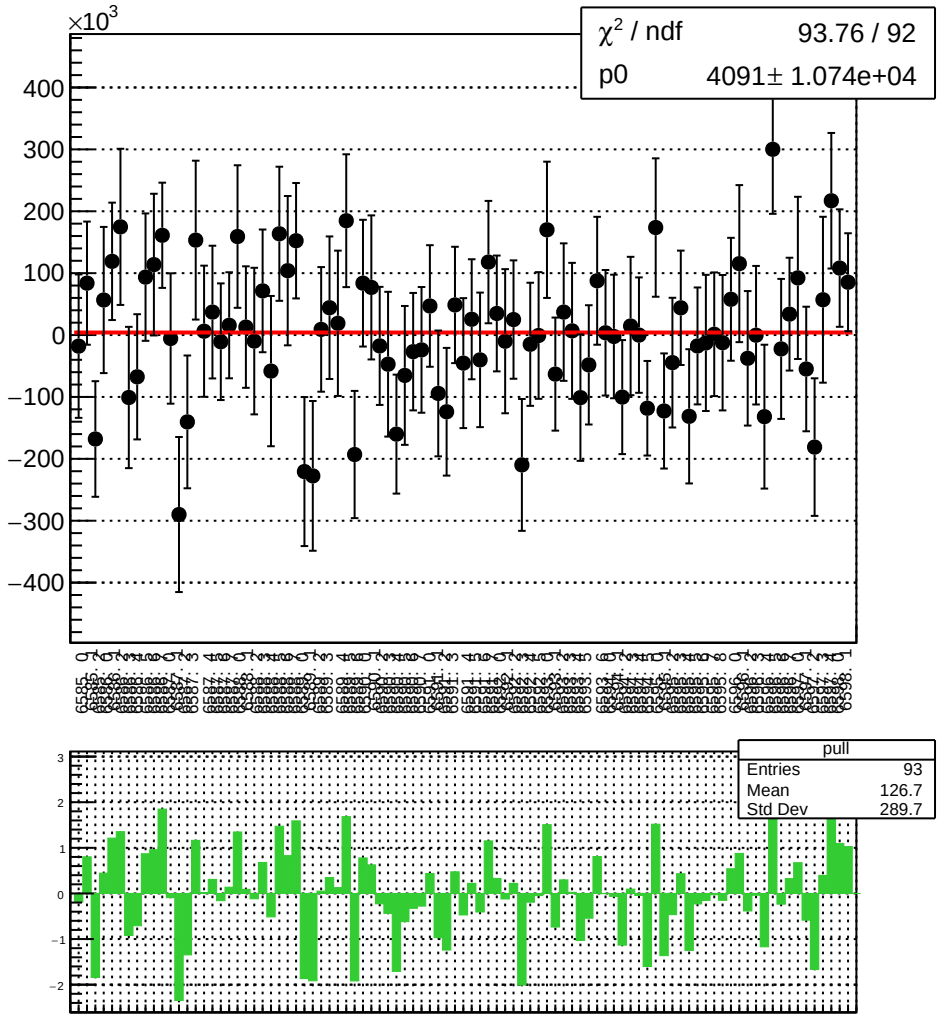

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 93.76 / 92
p0 4091± 1.074e+04
pull
Entries 93
Mean 126.7
Std Dev 289.7
pull1D
Entries 93
Mean 0.001311
Std Dev 1.004

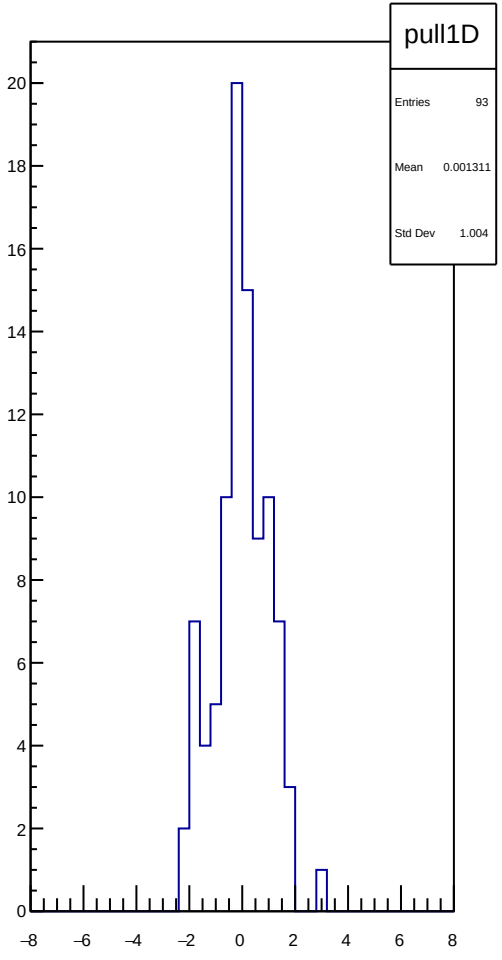

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.41e+04 / 92
p0 1.006e+04 ± 7.592
13000
12000
11000
10000
9000

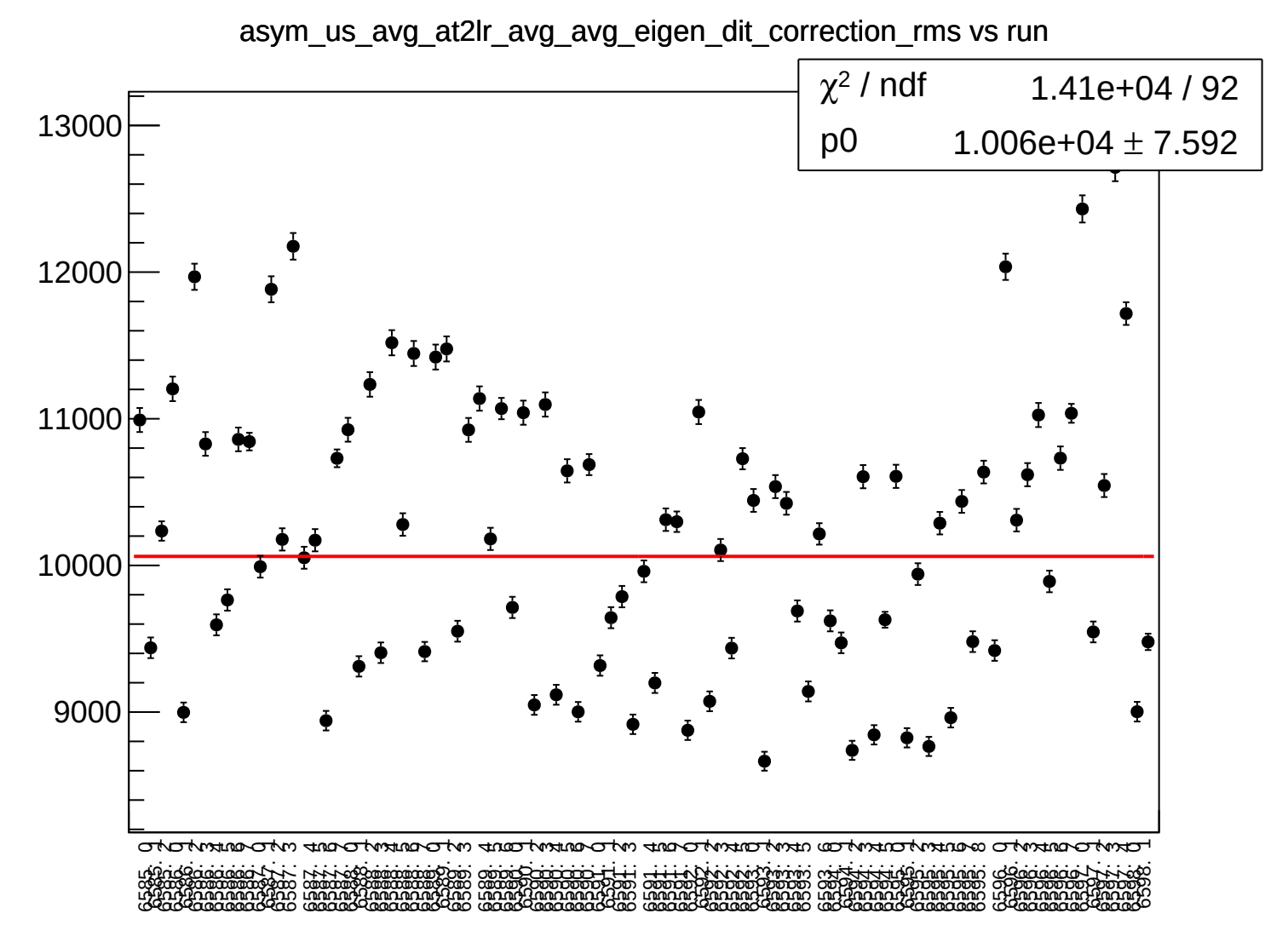

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 98 / 92
p0 −7341 ± 2673
pull
Entries 93
Mean 349.4
Std Dev 0

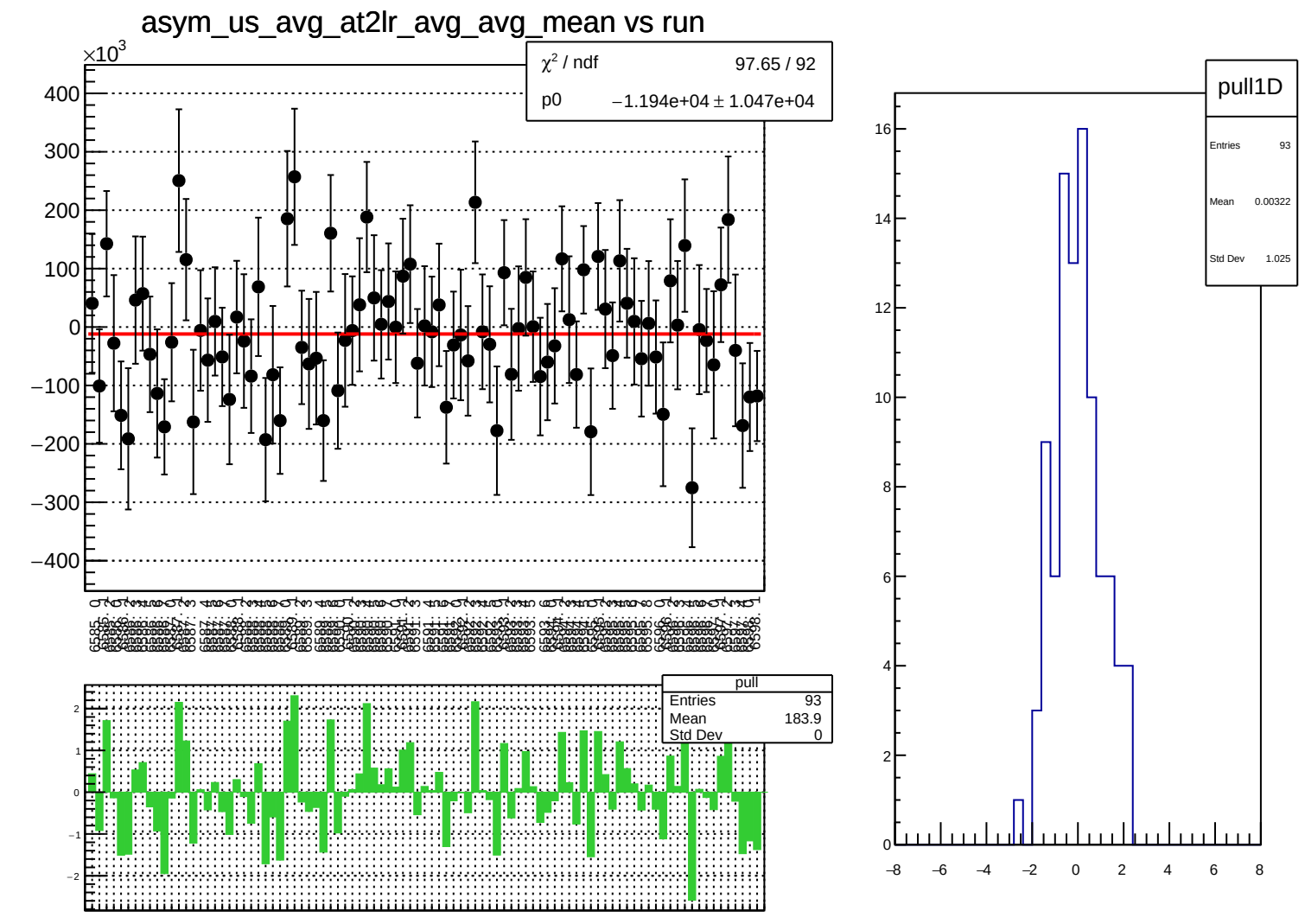

pull1D
Entries 93
Mean 0.00835
Std Dev 1.026

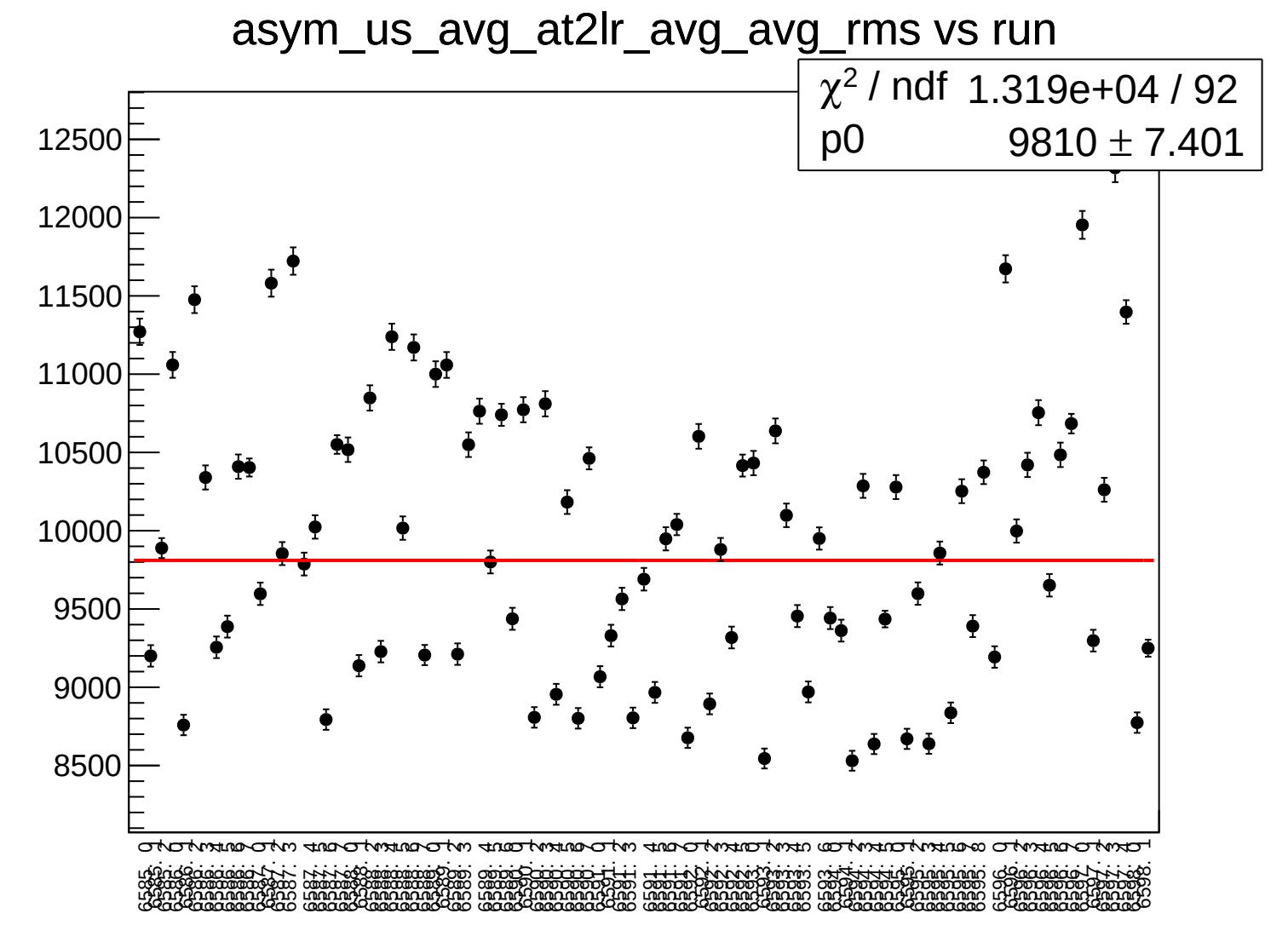

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 553.6 / 92
p0 2515 ± 1.89
2750
2700
2650
2600
2550
2500
2450

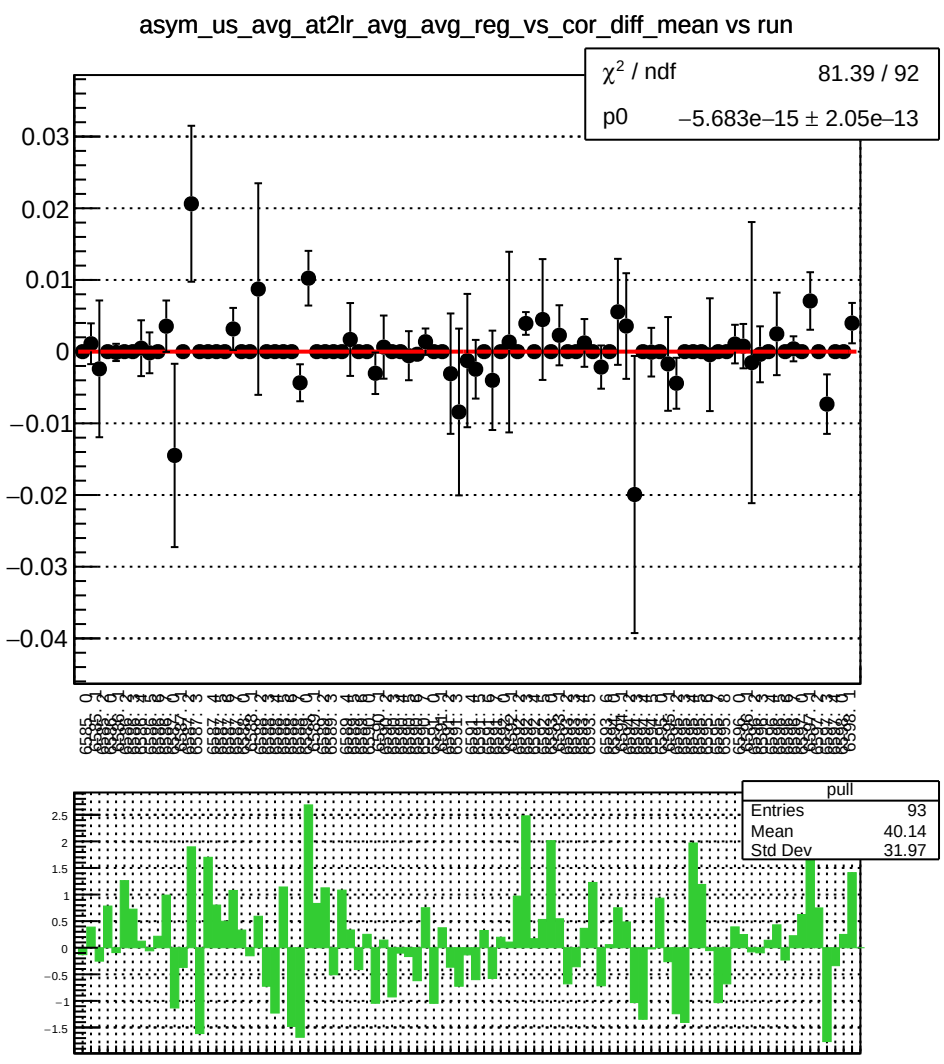

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.76 / 92
p0 4091± 1.074e+04
pull
Entries 93
Mean 126.7
Std Dev 289.7

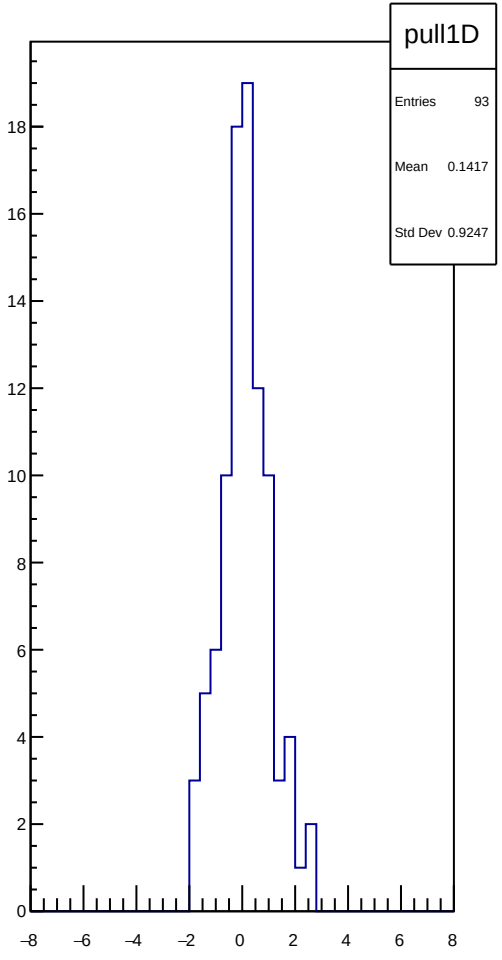

pull1D
Entries 93
Mean 0.001311
Std Dev 1.004

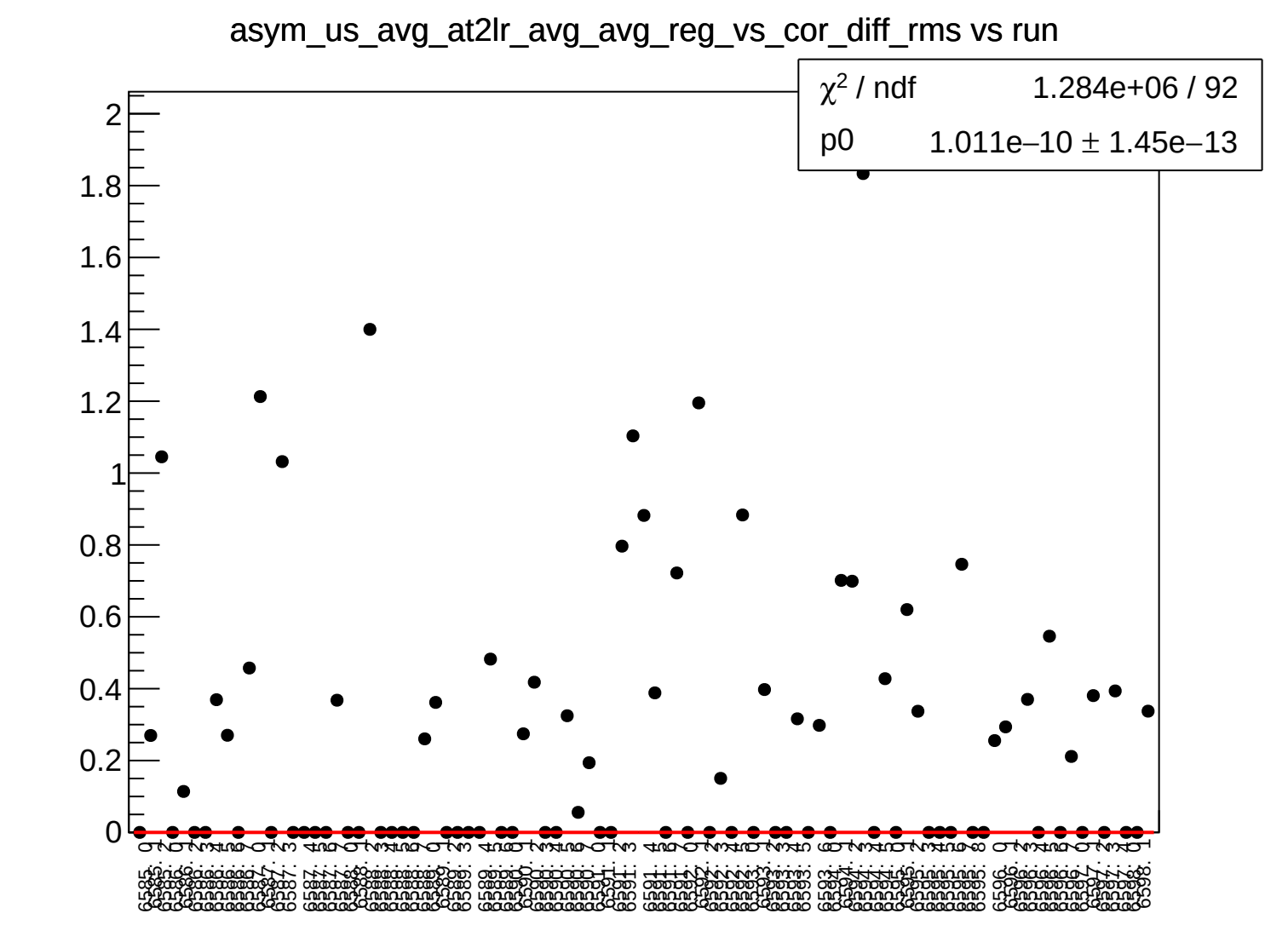

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.41e+04 / 92
p0 1.006e+04 ± 7.592
13000
12000
11000
10000
9000

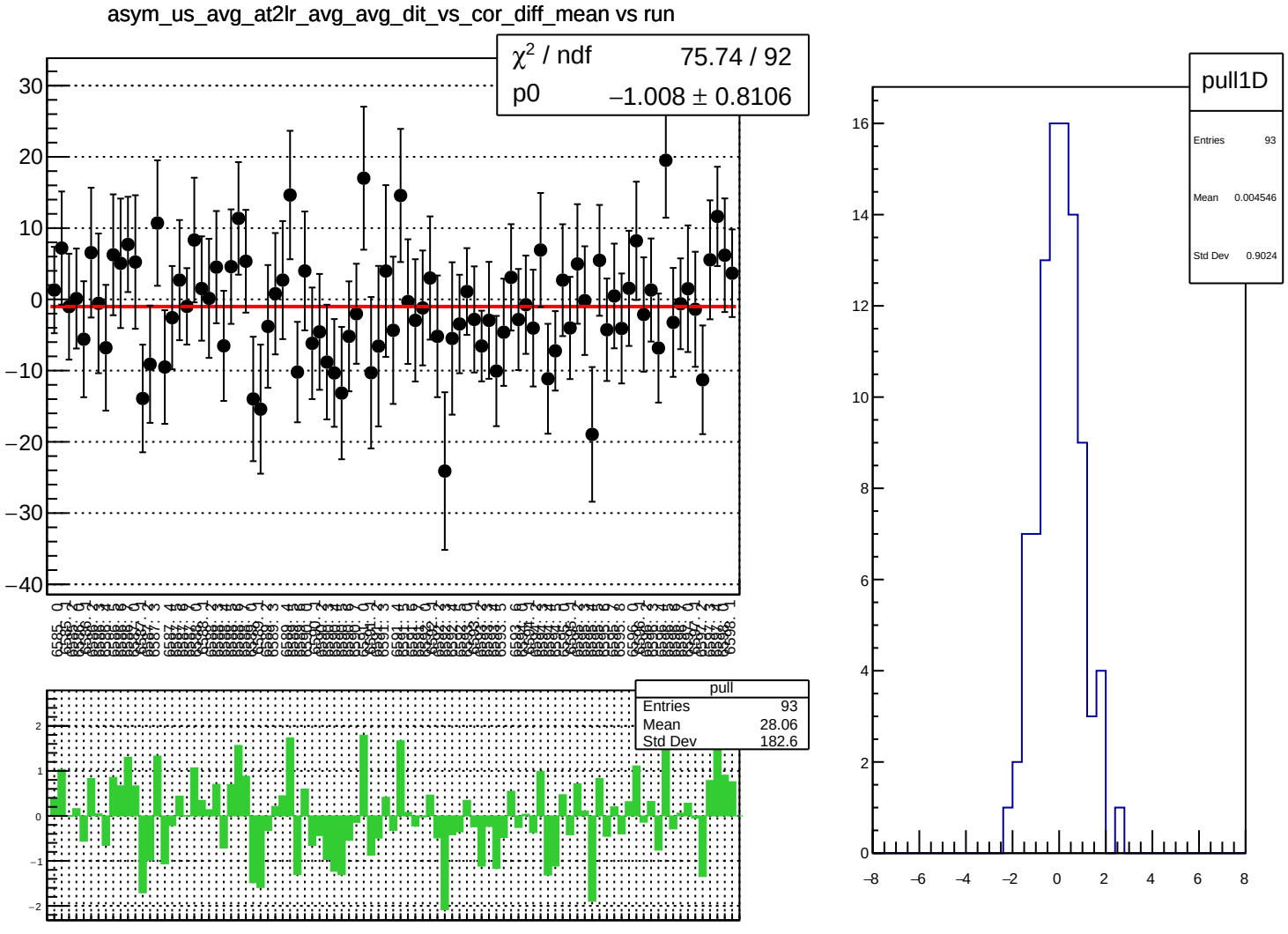

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
χ² / ndf 97.65 / 92
p0 −1.194e+04 ± 1.047e+04
pull
Entries 93
Mean 183.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00322
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

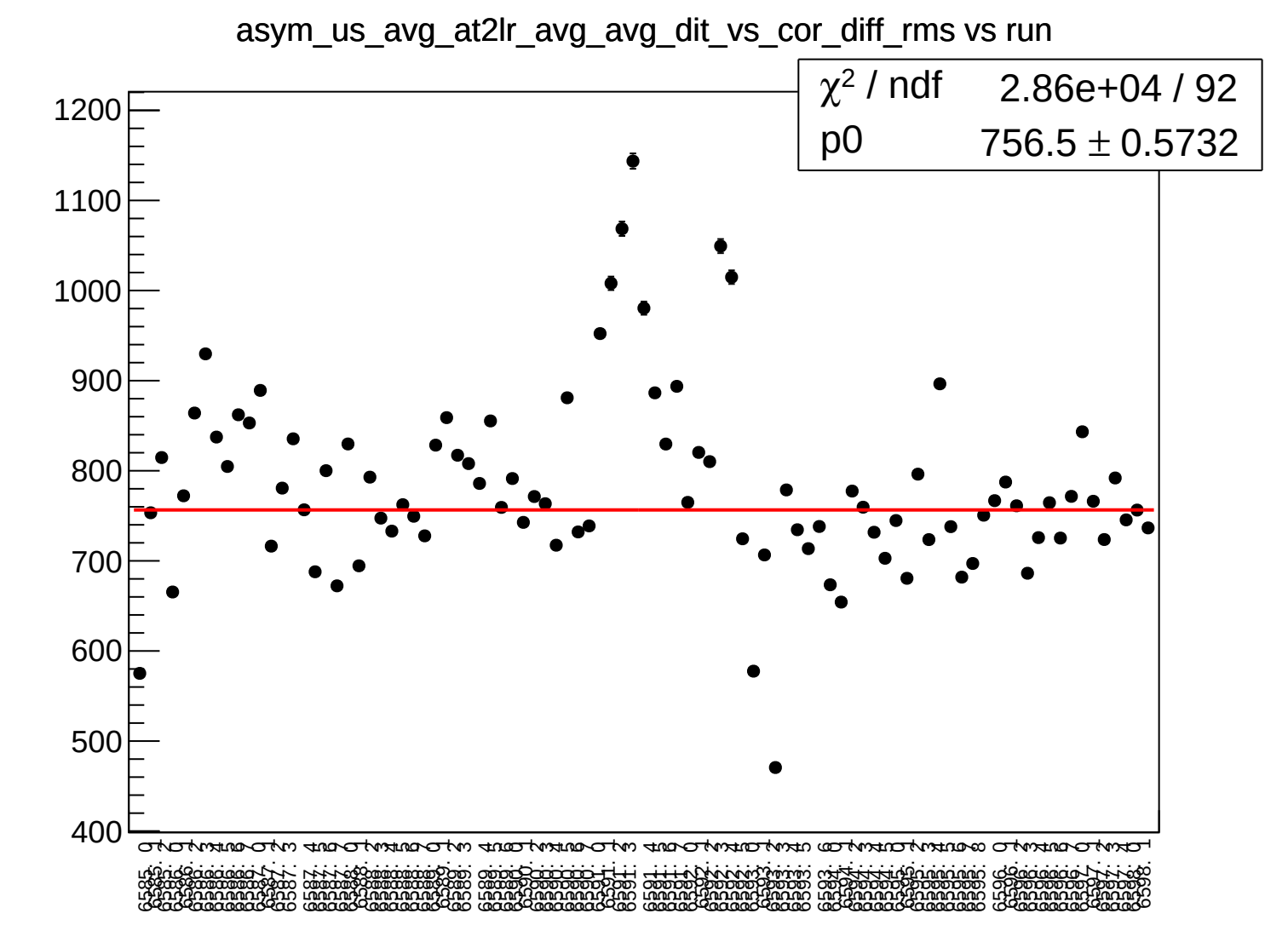

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.319e+04 / 92
p0 9810 ± 7.401
12500
12000
11500
11000
10500
10000
9500
9000
8500

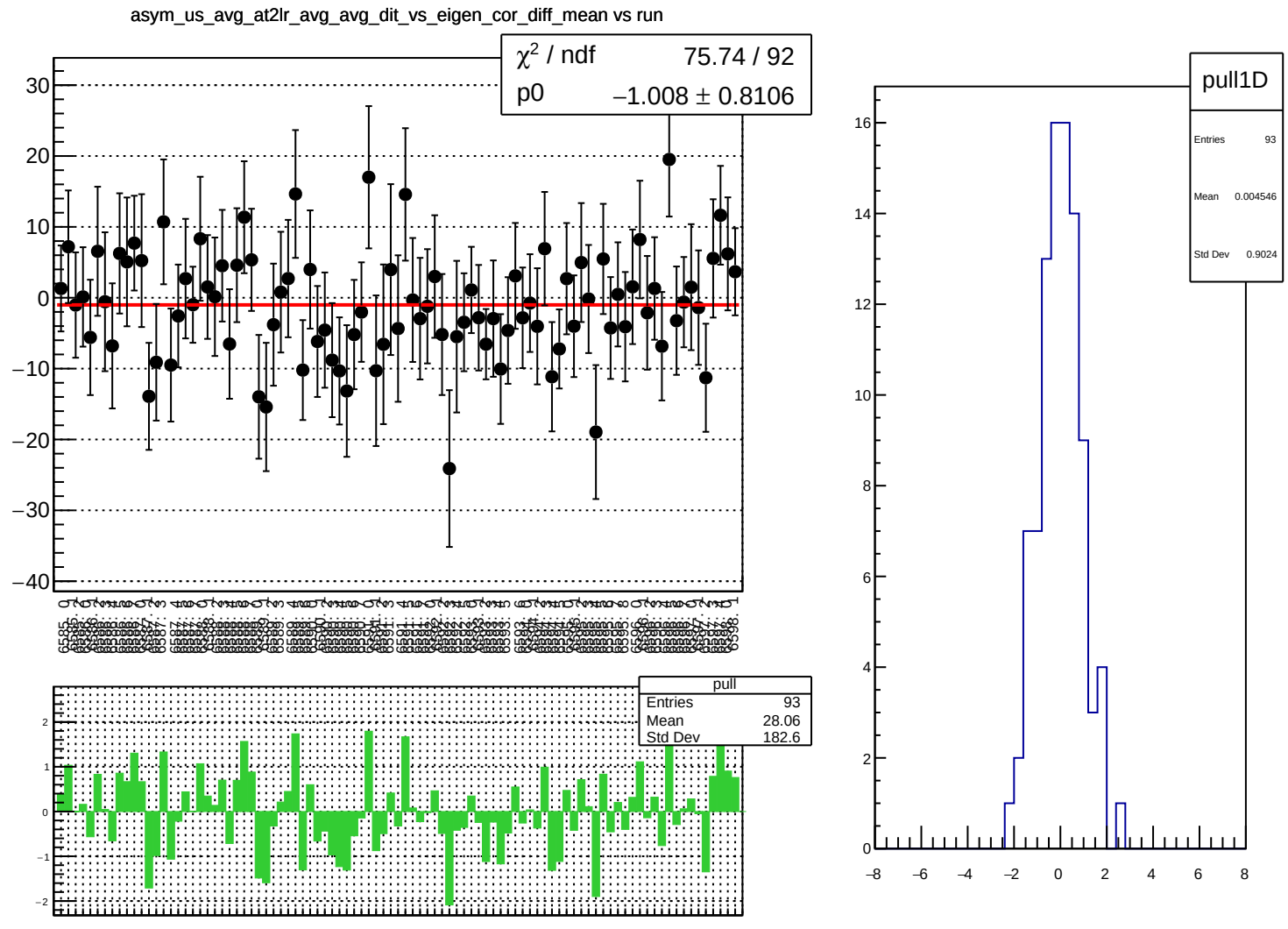

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.39 / 92
p0 −5.683e−15 ± 2.05e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 93
Mean 40.14
Std Dev 31.97
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

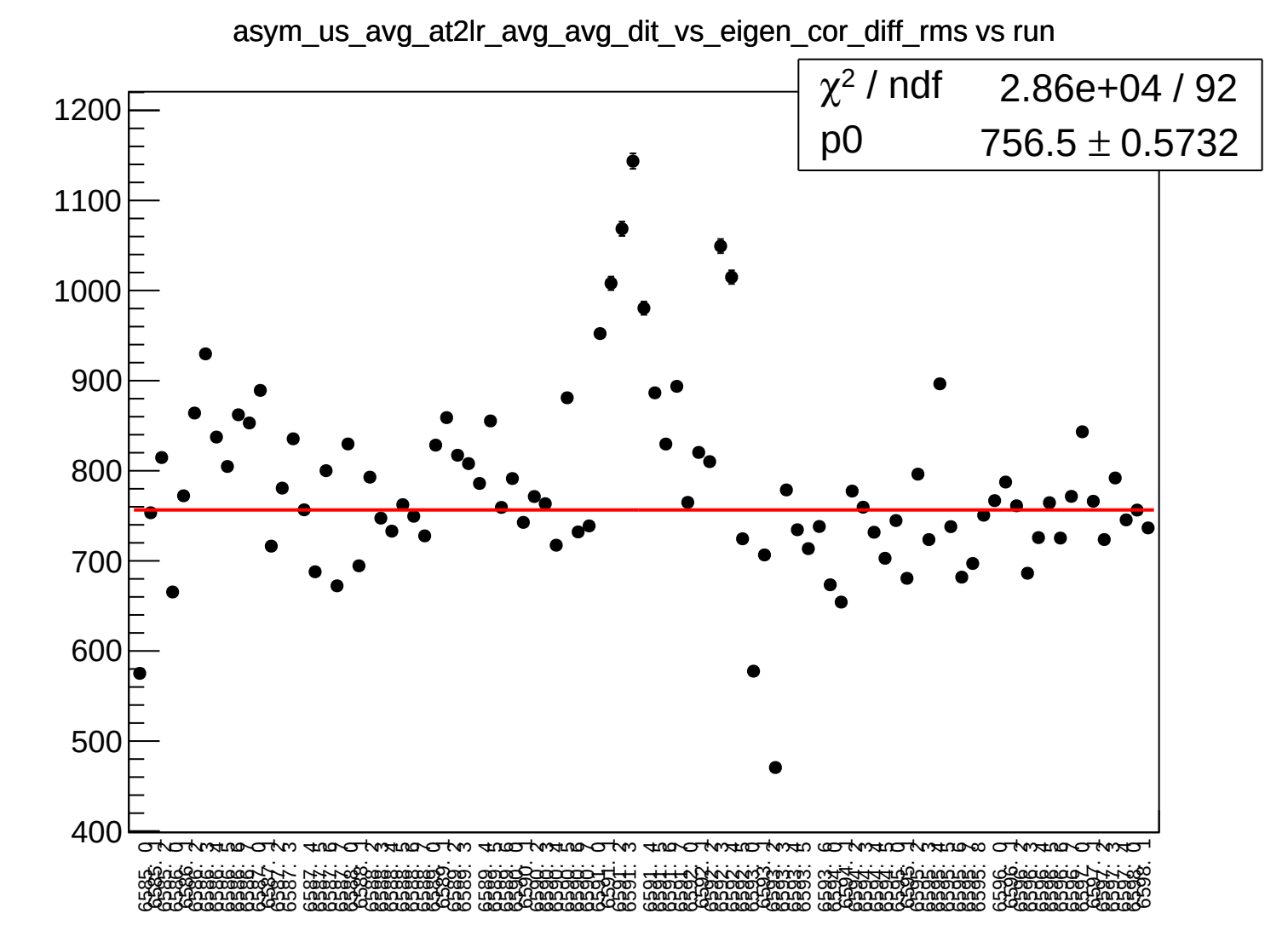

pull1D
Entries 93
Mean 0.1417
Std Dev 0.9247
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

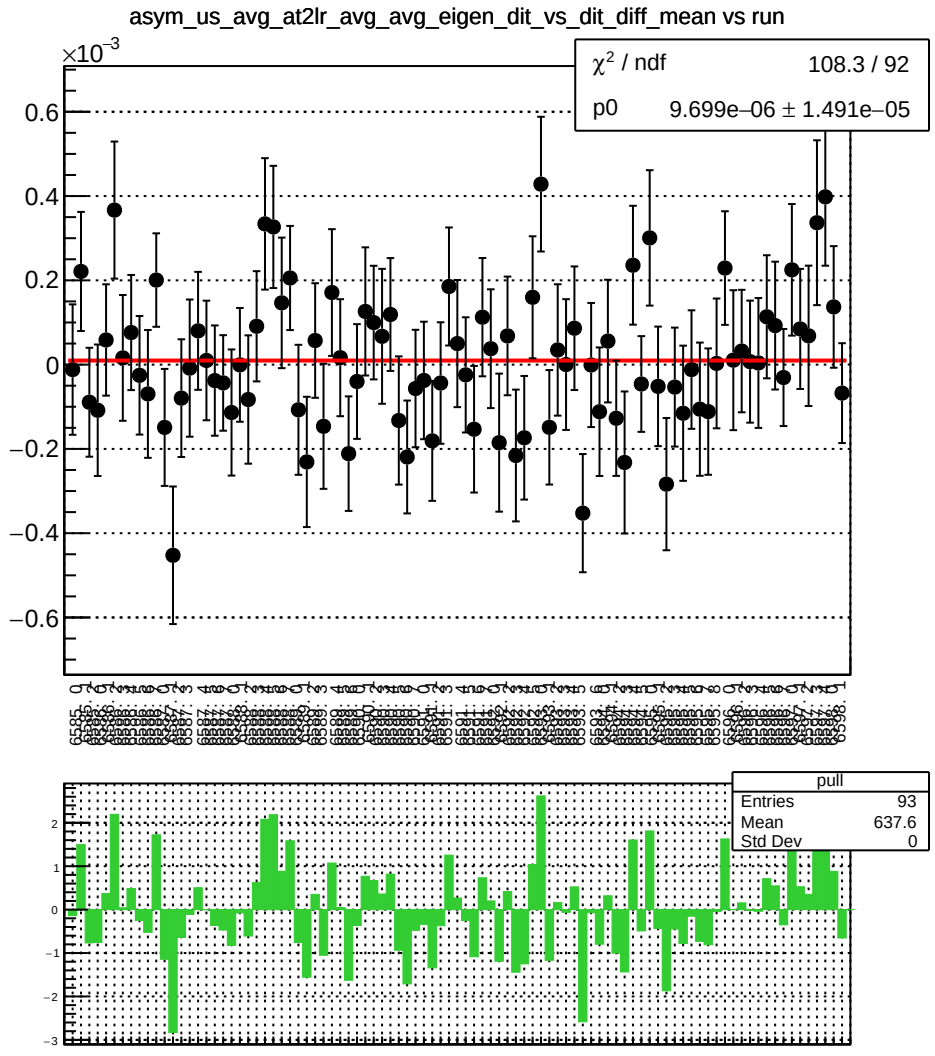

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.284e+06 / 92
p0 1.011e−10 ± 1.45e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

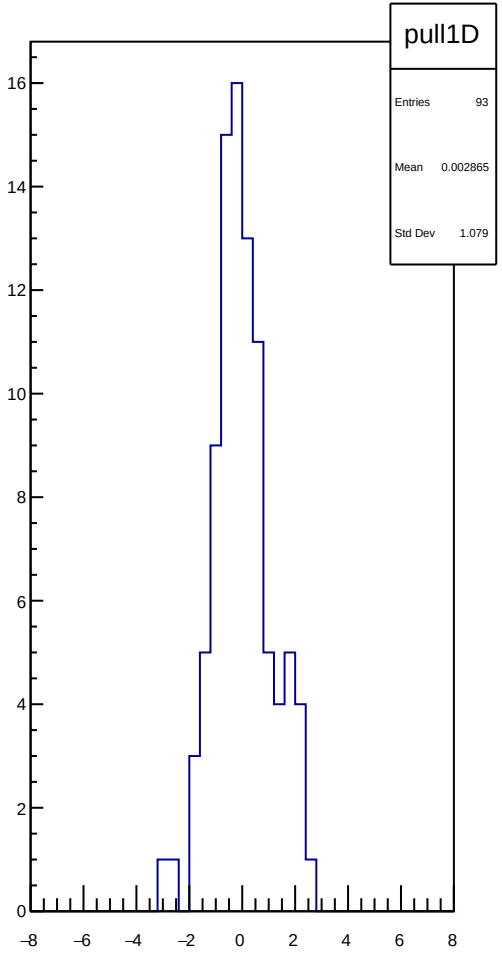

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.74 / 92
p0 −1.008 ± 0.8106
pull
Entries 93
Mean 28.06
Std Dev 182.6
pull1D
Entries 93
Mean 0.004546
Std Dev 0.9024

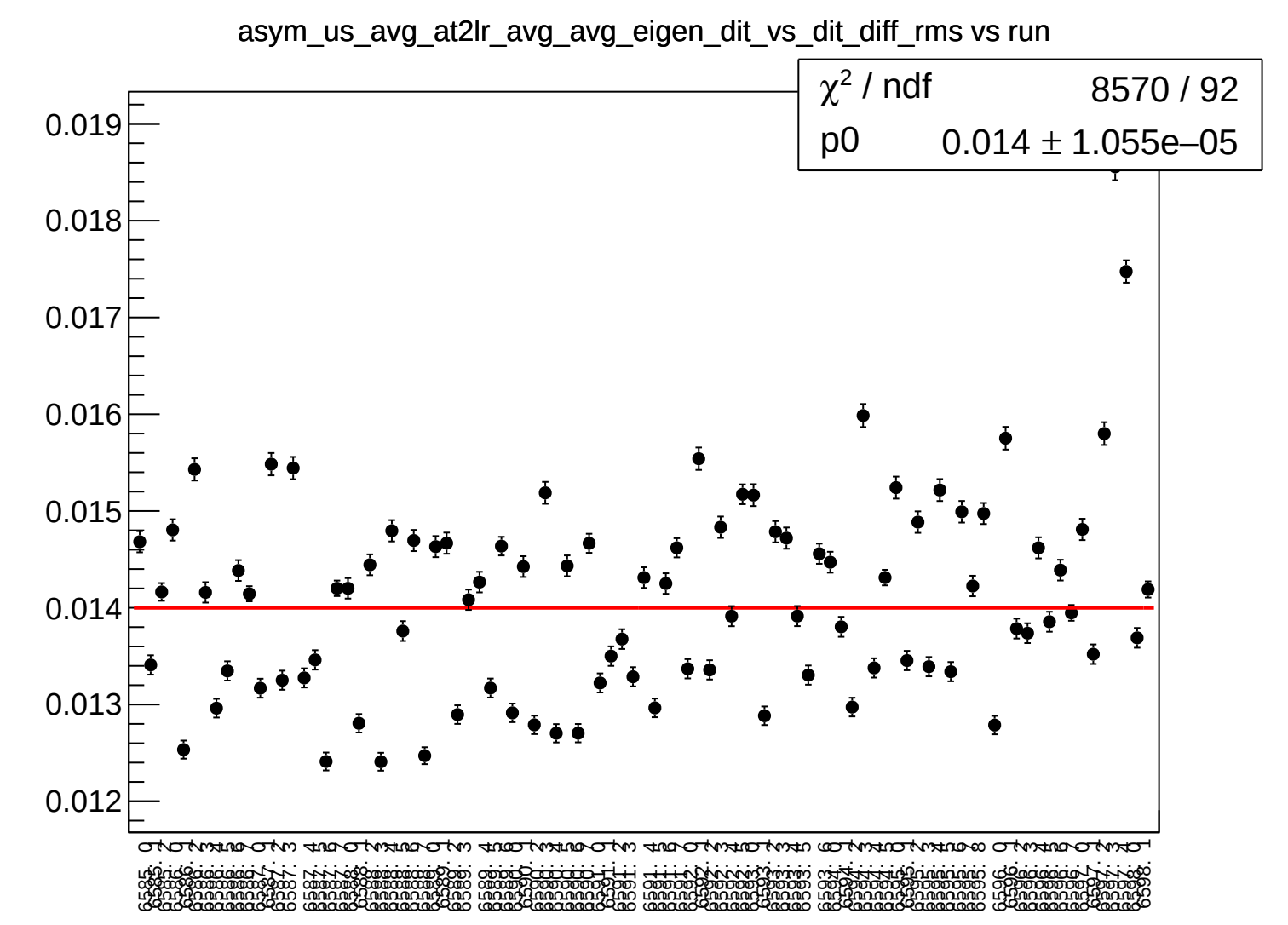

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.86e+04 / 92
p0 756.5 ± 0.5732
1200
1100
1000
900
800
700
600
500
400

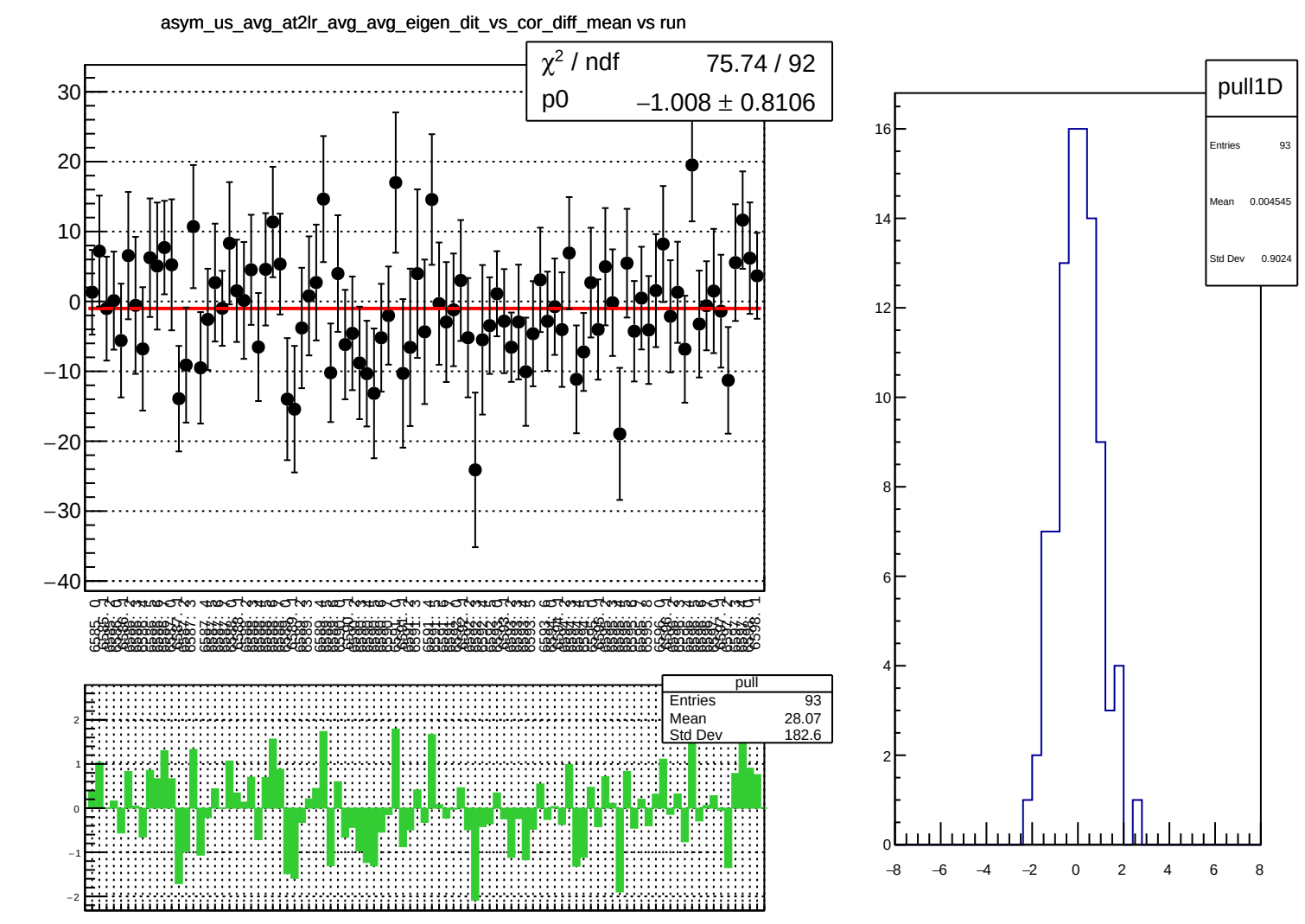

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.74 / 92
p0 −1.008 ± 0.8106
pull
Entries 93
Mean 28.06
Std Dev 182.6
pull1D
Entries 93
Mean 0.004546
Std Dev 0.9024

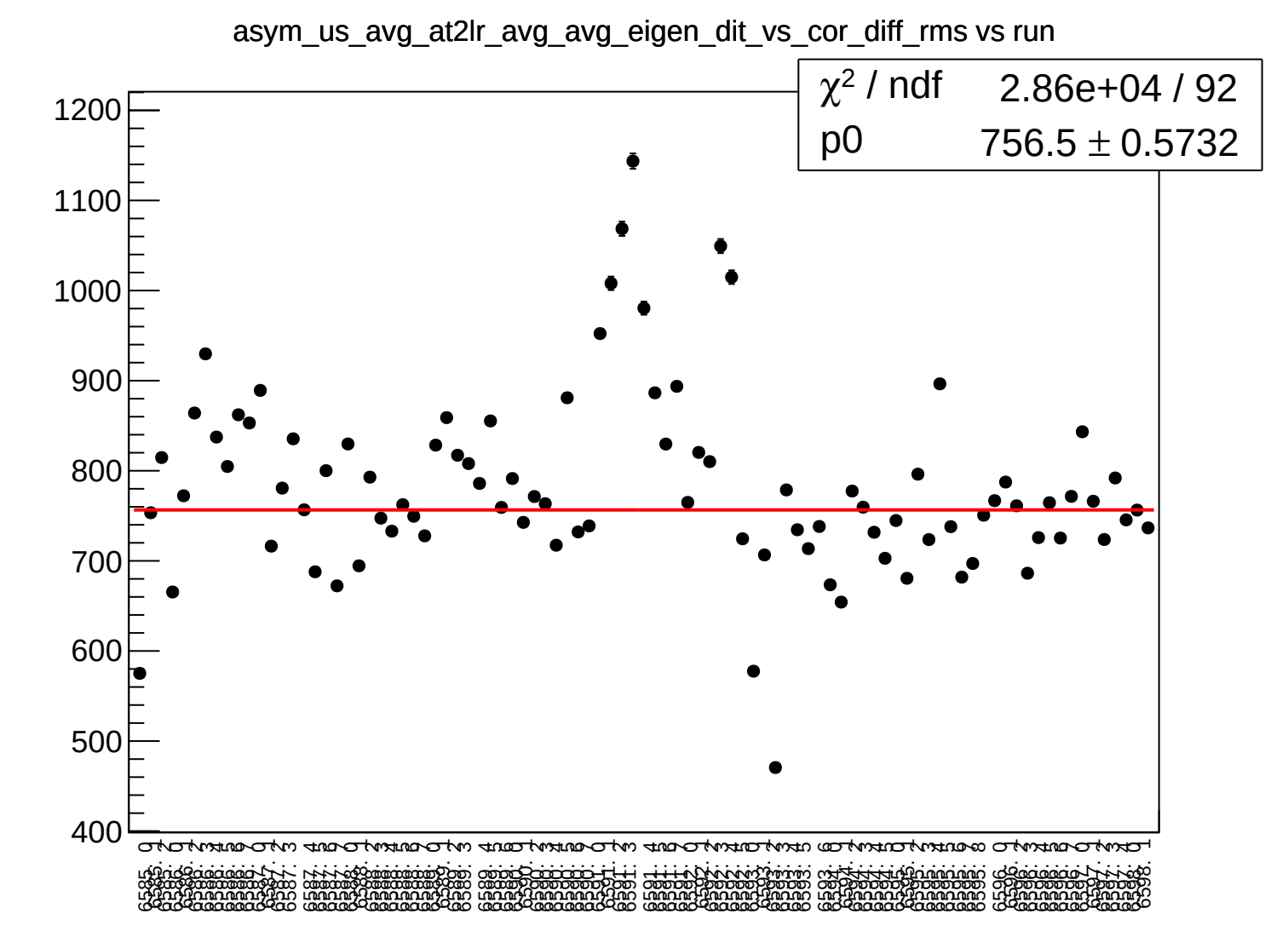

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.86e+04 / 92
p0 756.5 ± 0.5732
1200
1100
1000
900
800
700
600
500
400

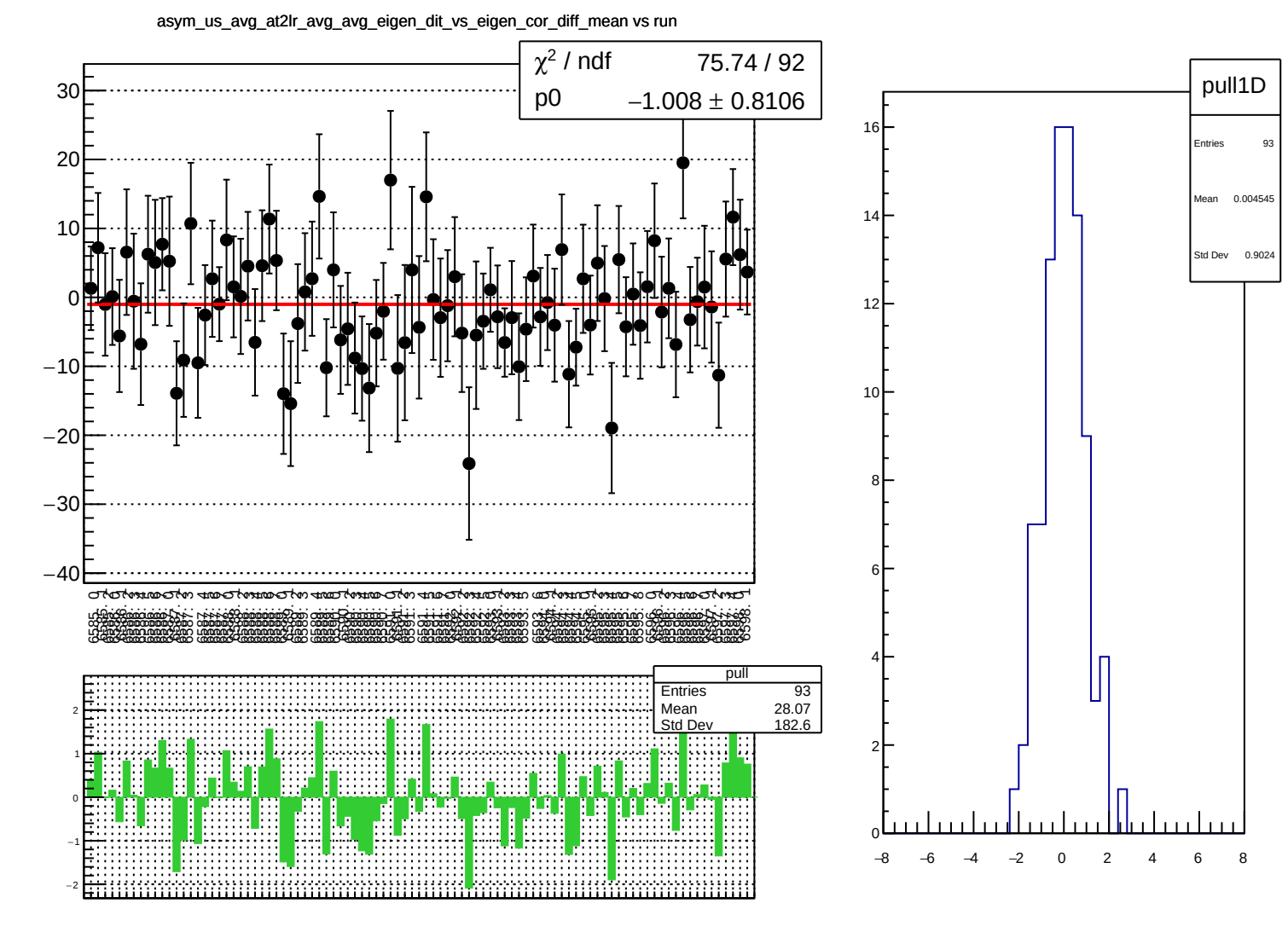

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.3 / 92
p0 9.699e−06 ± 1.491e−05
pull
Entries 93
Mean 637.6
Std Dev 0

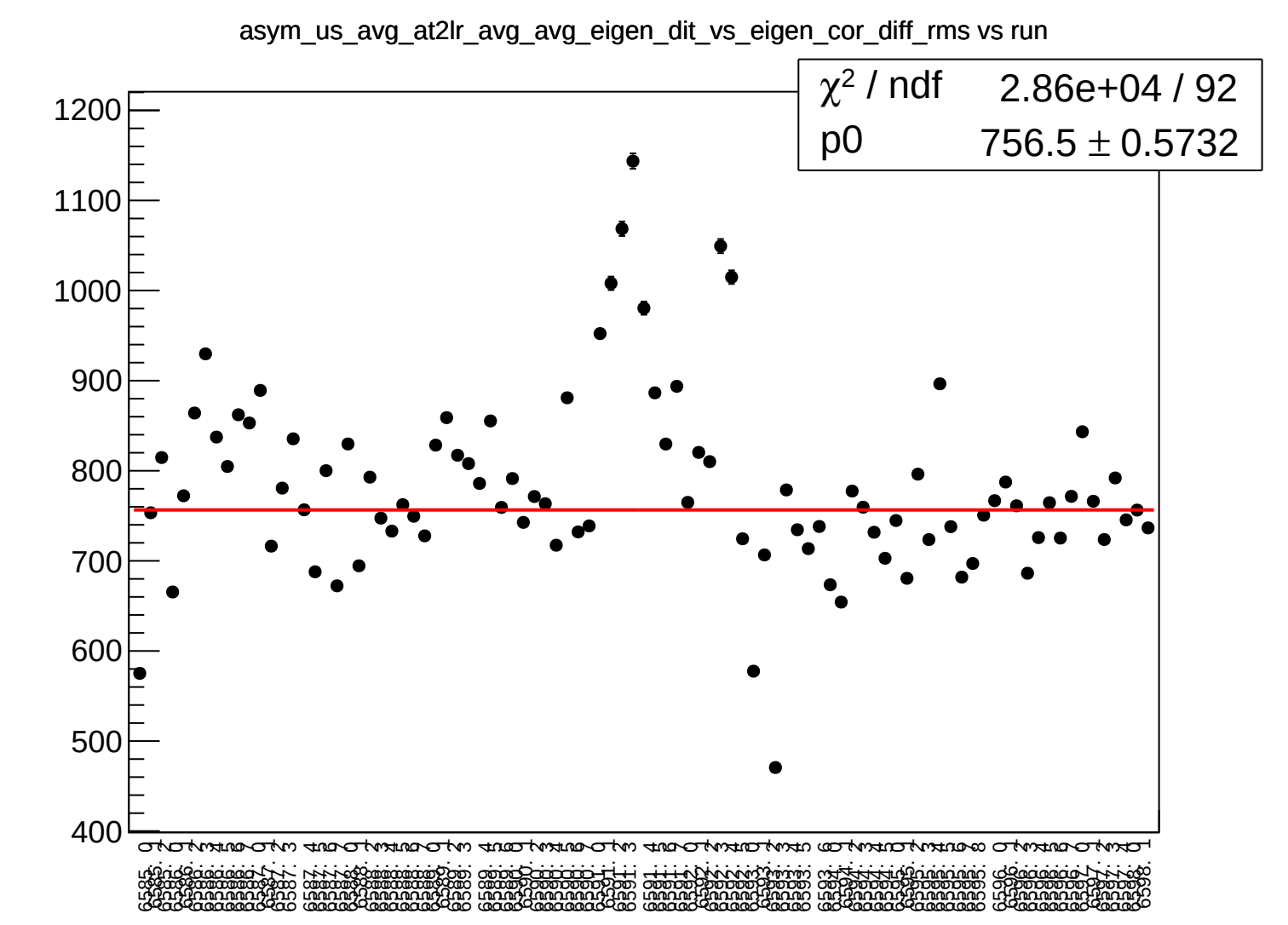

pull1D
Entries 93
Mean 0.002865
Std Dev 1.079

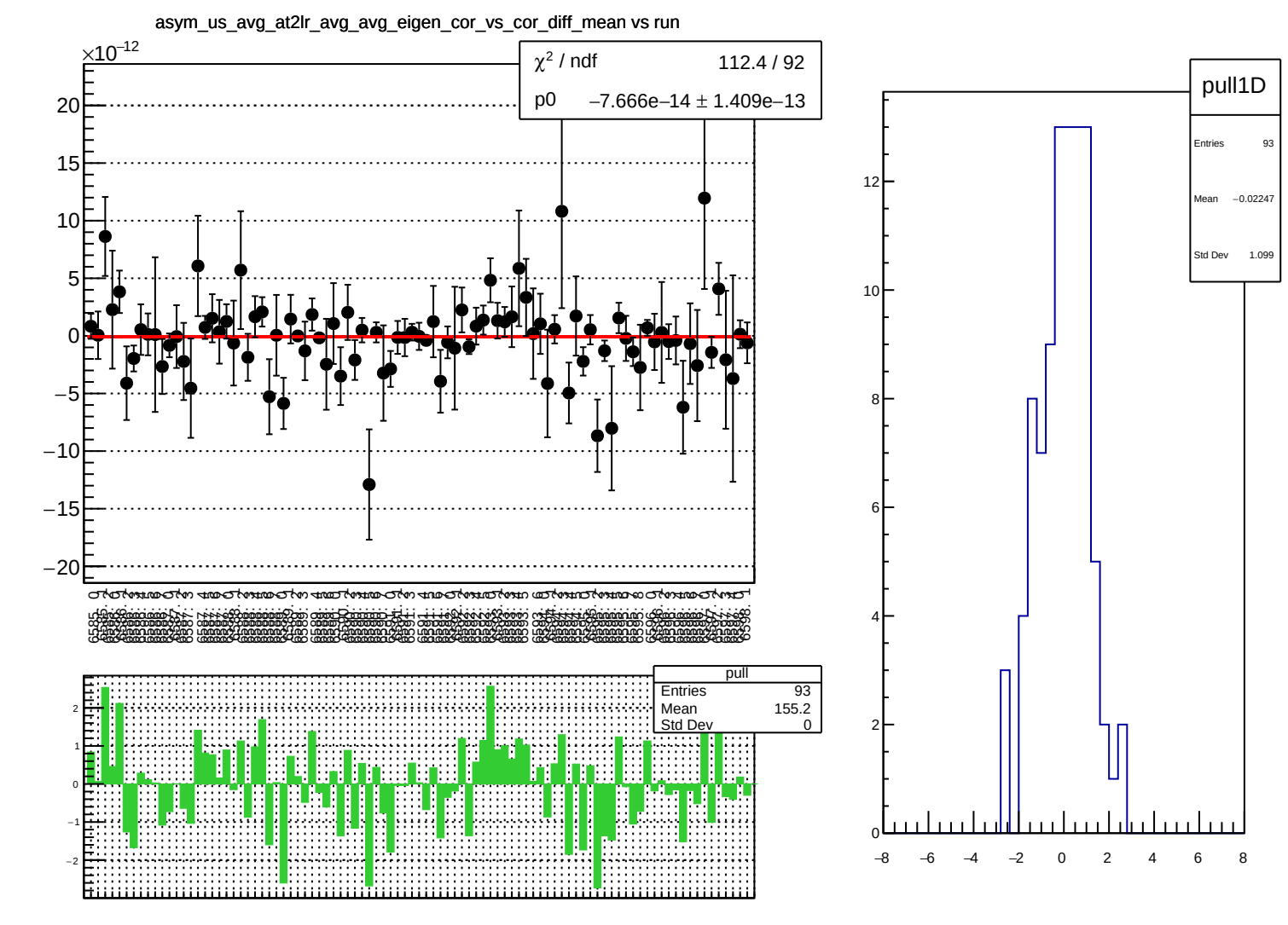

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8570 / 92
p0 0.014 ± 1.055e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012

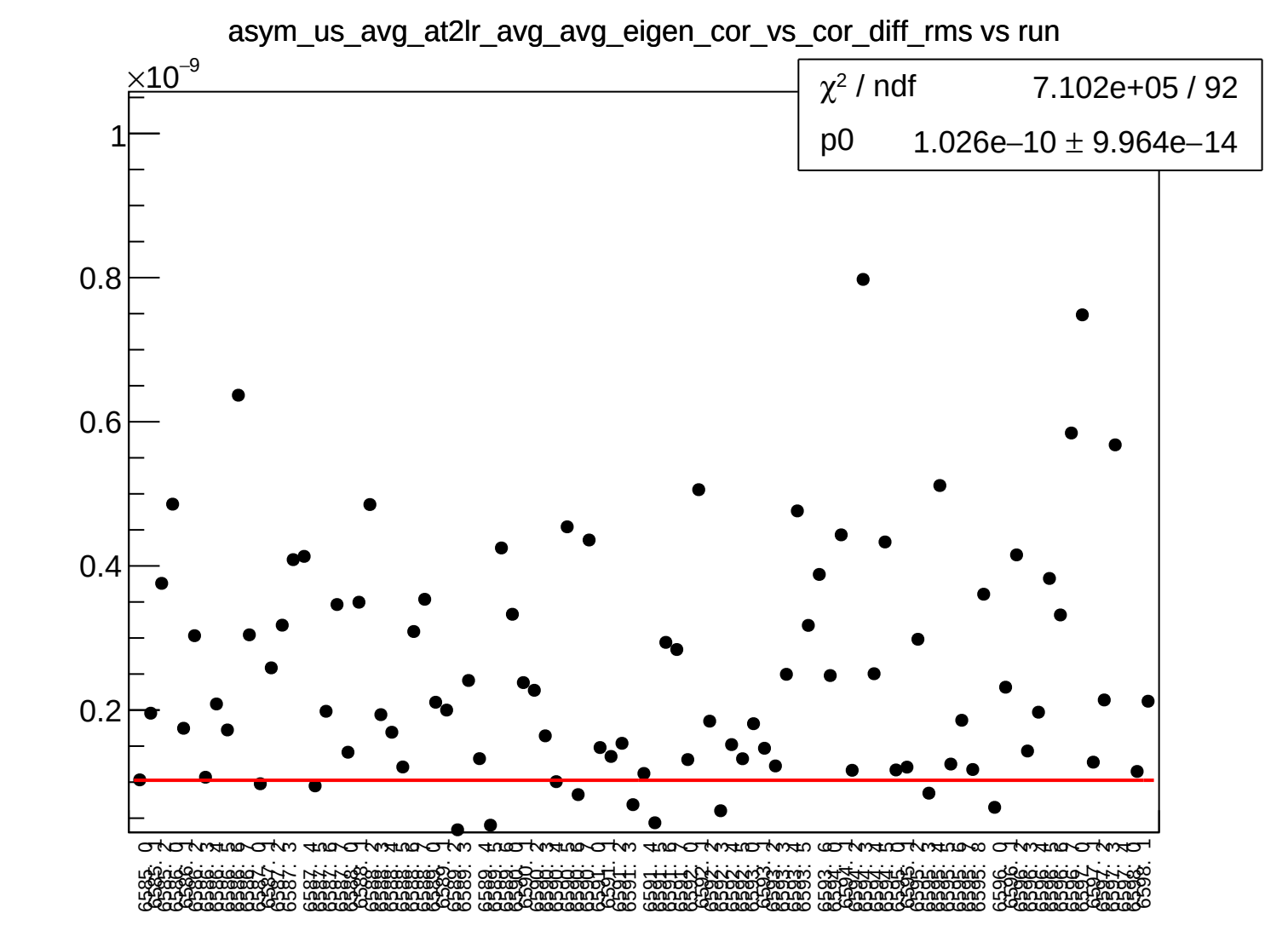

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.74 / 92
p0 −1.008 ± 0.8106
pull
Entries 93
Mean 28.07
Std Dev 182.6
pull1D
Entries 93
Mean 0.004545
Std Dev 0.9024

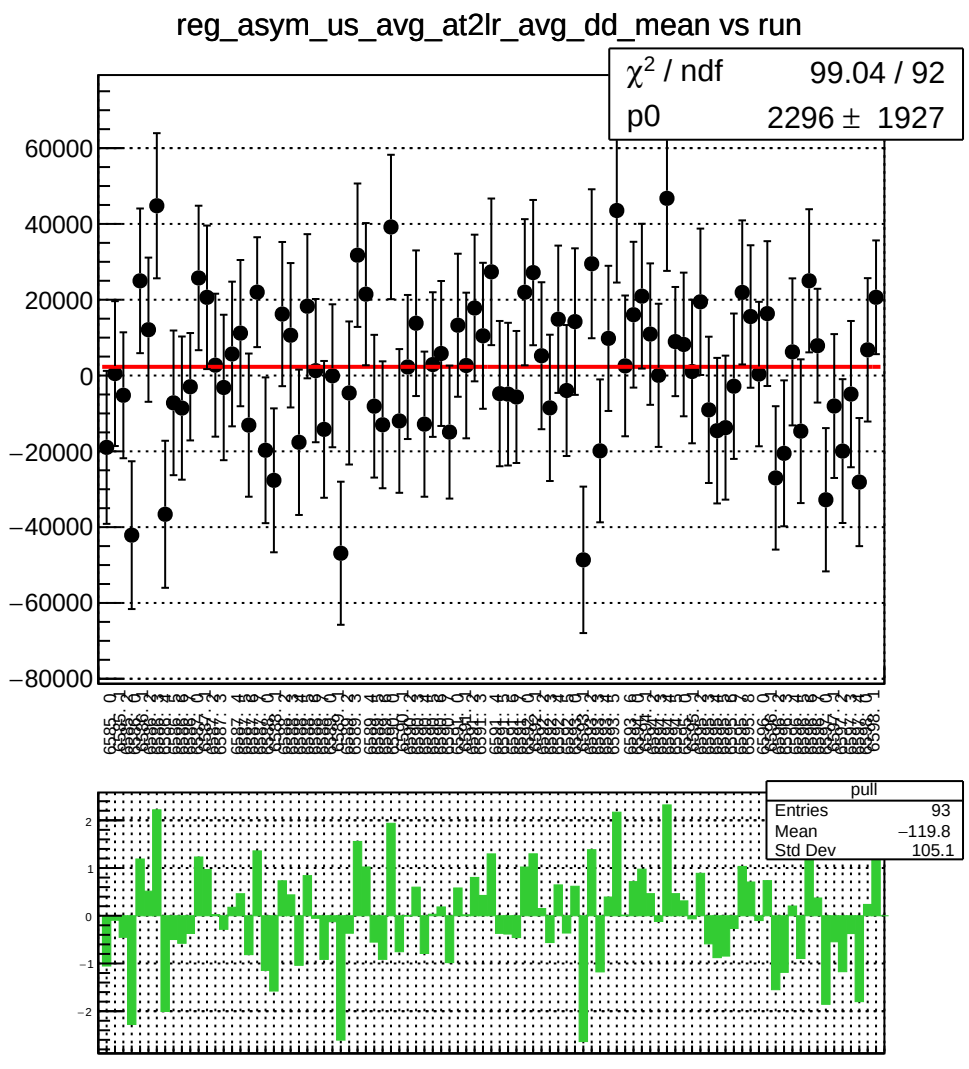

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.86e+04 / 92
p0 756.5 ± 0.5732
1200
1100
1000
900
800
700
600
500
400

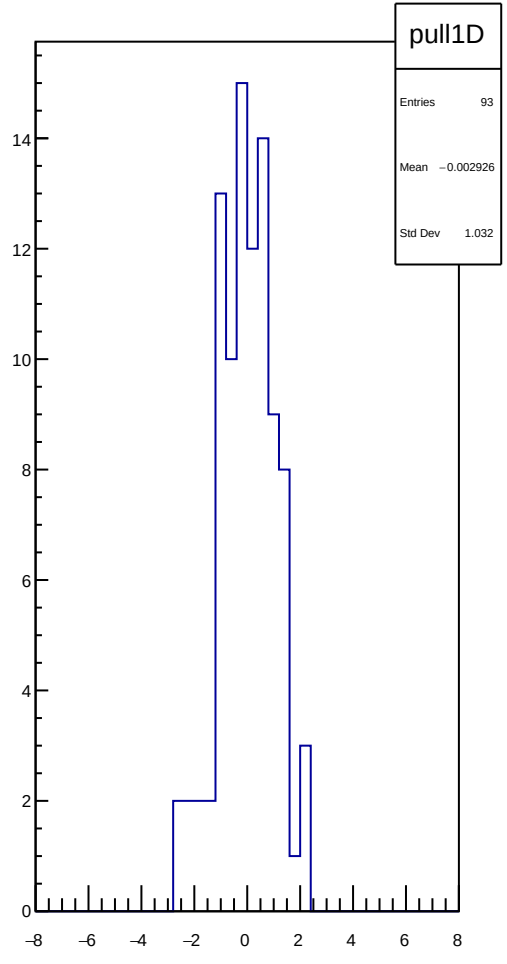

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.74 / 92
p0 −1.008 ± 0.8106
pull
Entries 93
Mean 28.07
Std Dev 182.6
pull1D
Entries 93
Mean 0.004545
Std Dev 0.9024

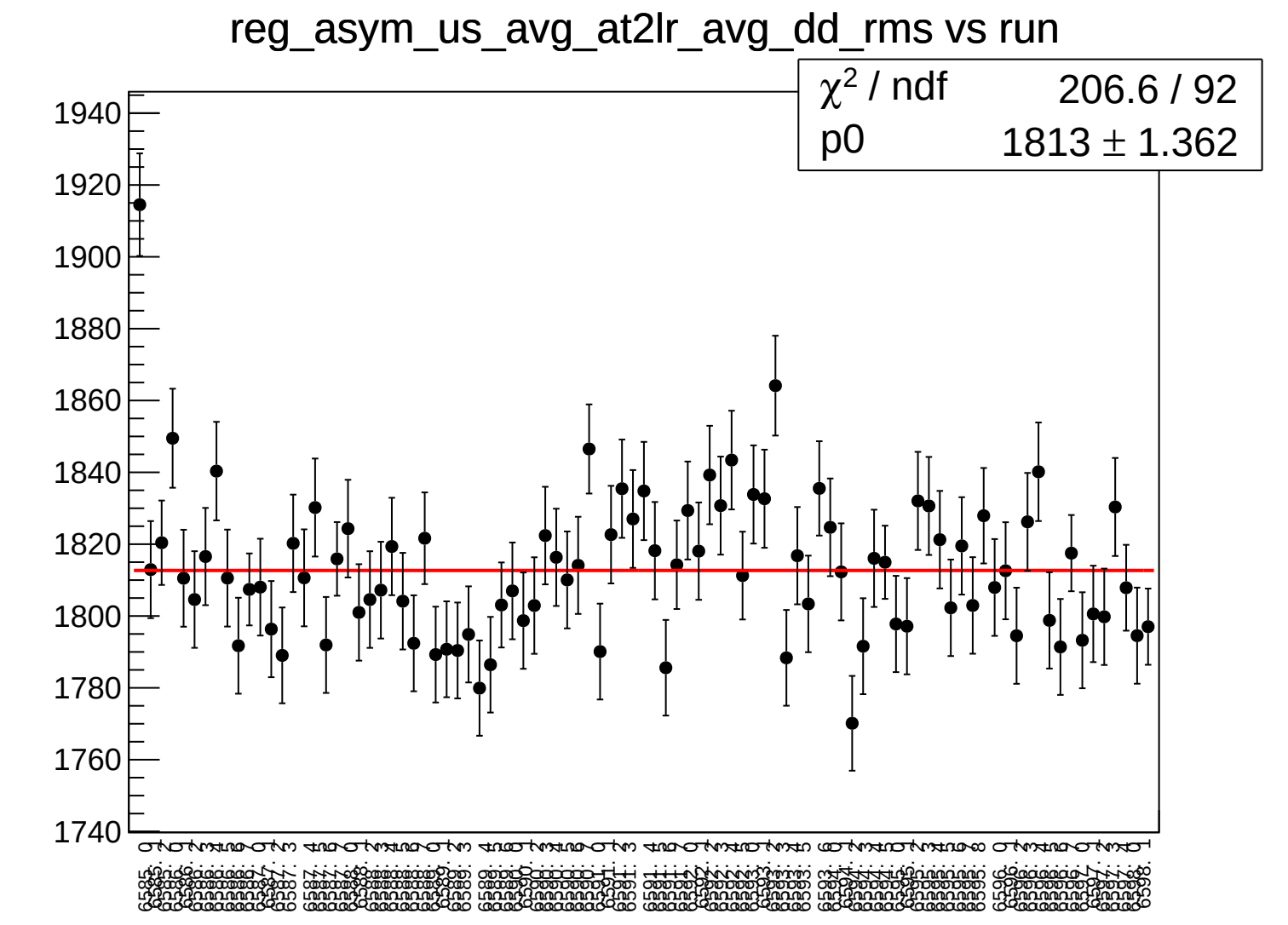

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.86e+04 / 92
p0 756.5 ± 0.5732
1200
1100
1000
900
800
700
600
500
400

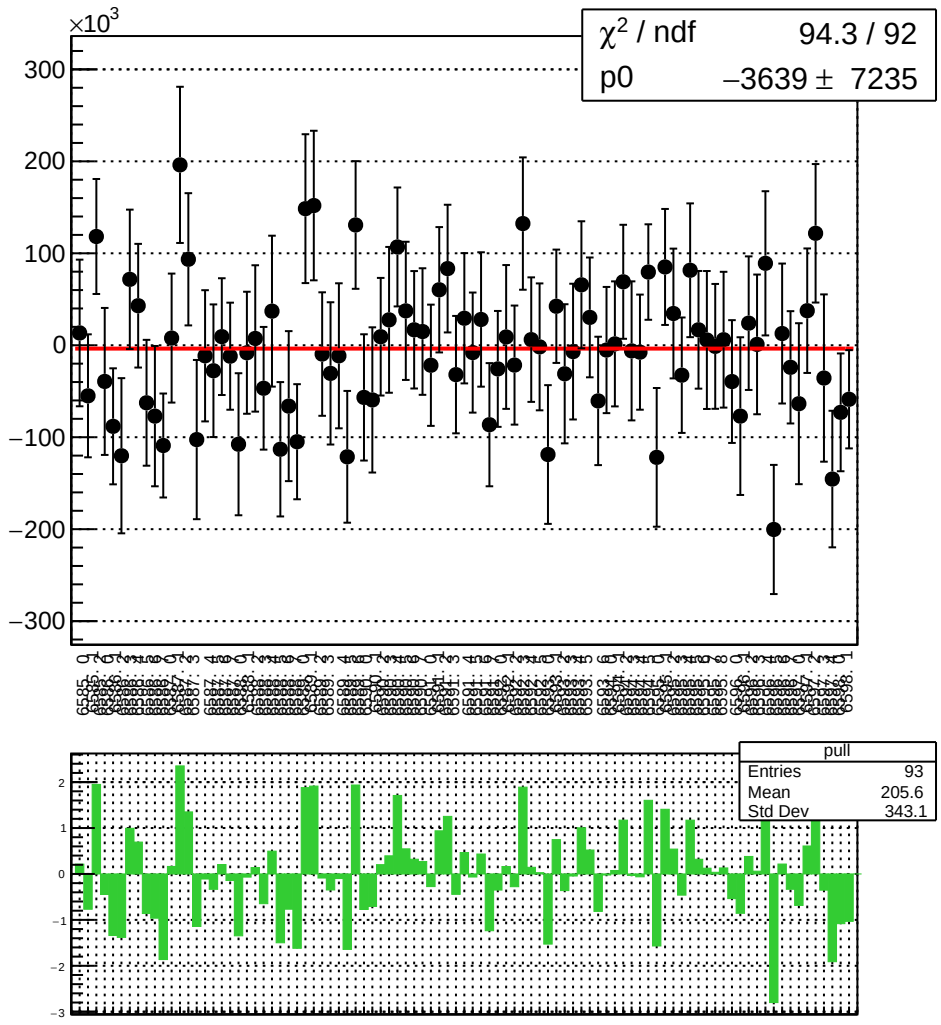

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.4 / 92
p0 −7.666e−14 ± 1.409e−13
pull
Entries 93
Mean 155.2
Std Dev 0
pull1D
Entries 93
Mean −0.02247
Std Dev 1.099

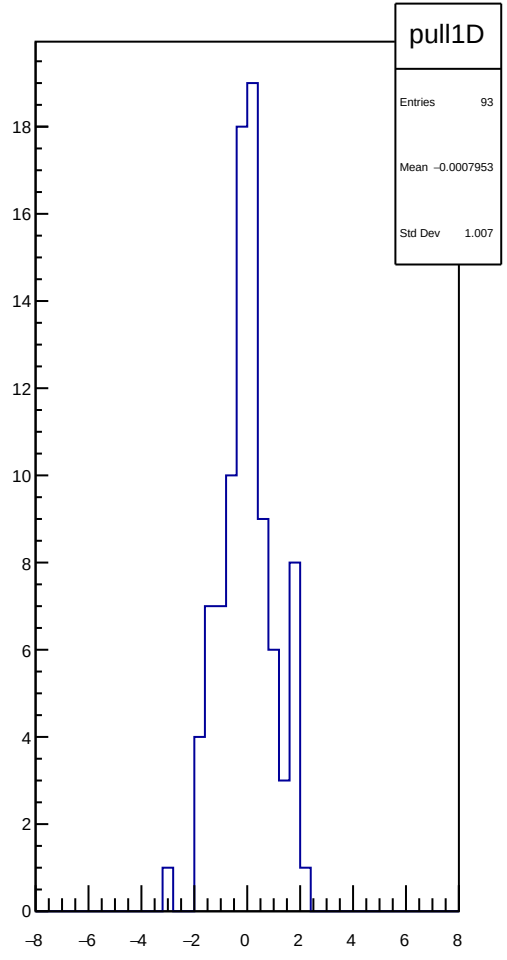

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.102e+05 / 92
p0 1.026e−10 ± 9.964e−14
1
0.8
0.6
0.4
0.2

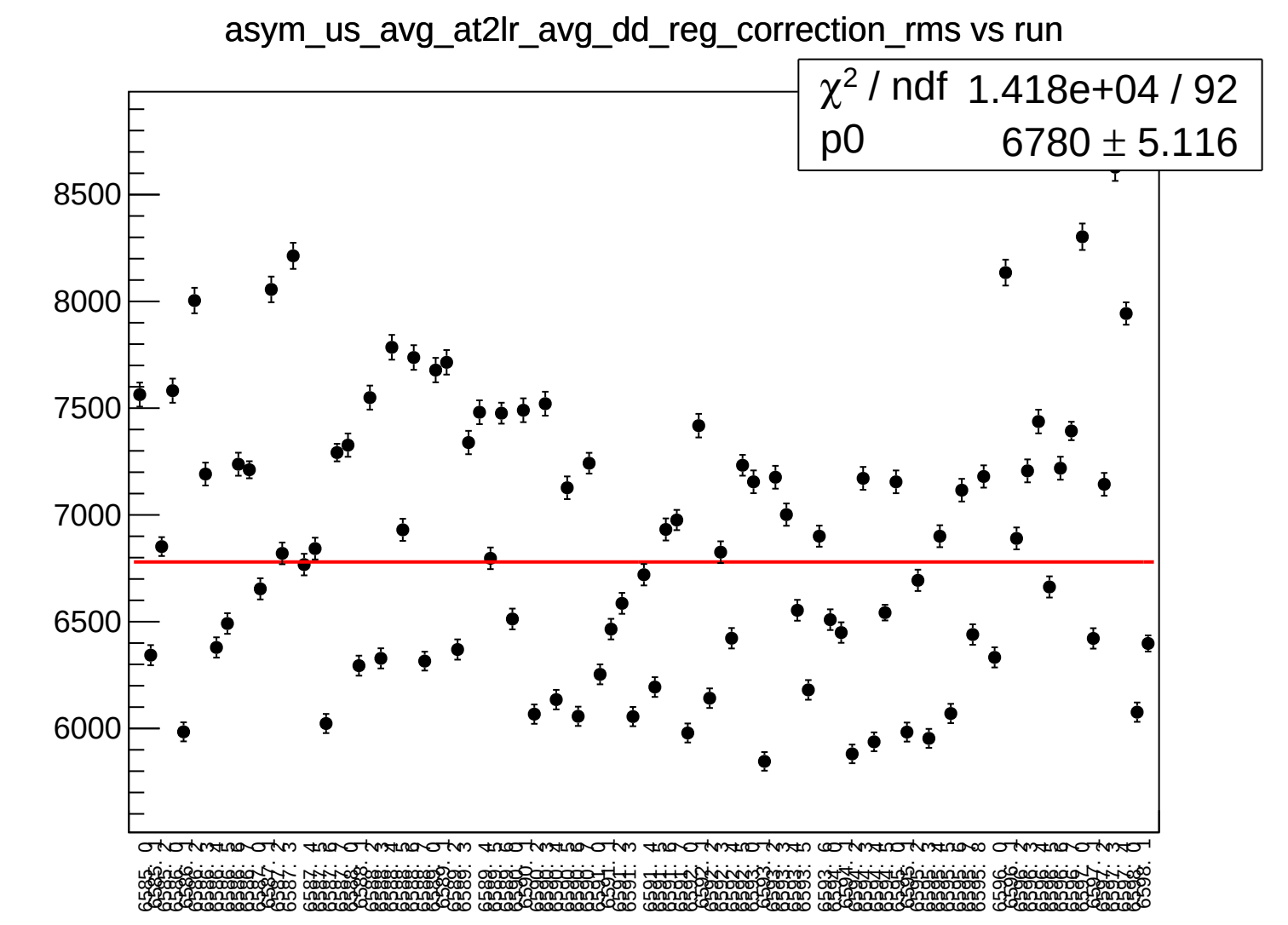

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 99.04 / 92
p0 2296 ± 1927
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −119.8
Std Dev 105.1
2
1
0
−1
−2

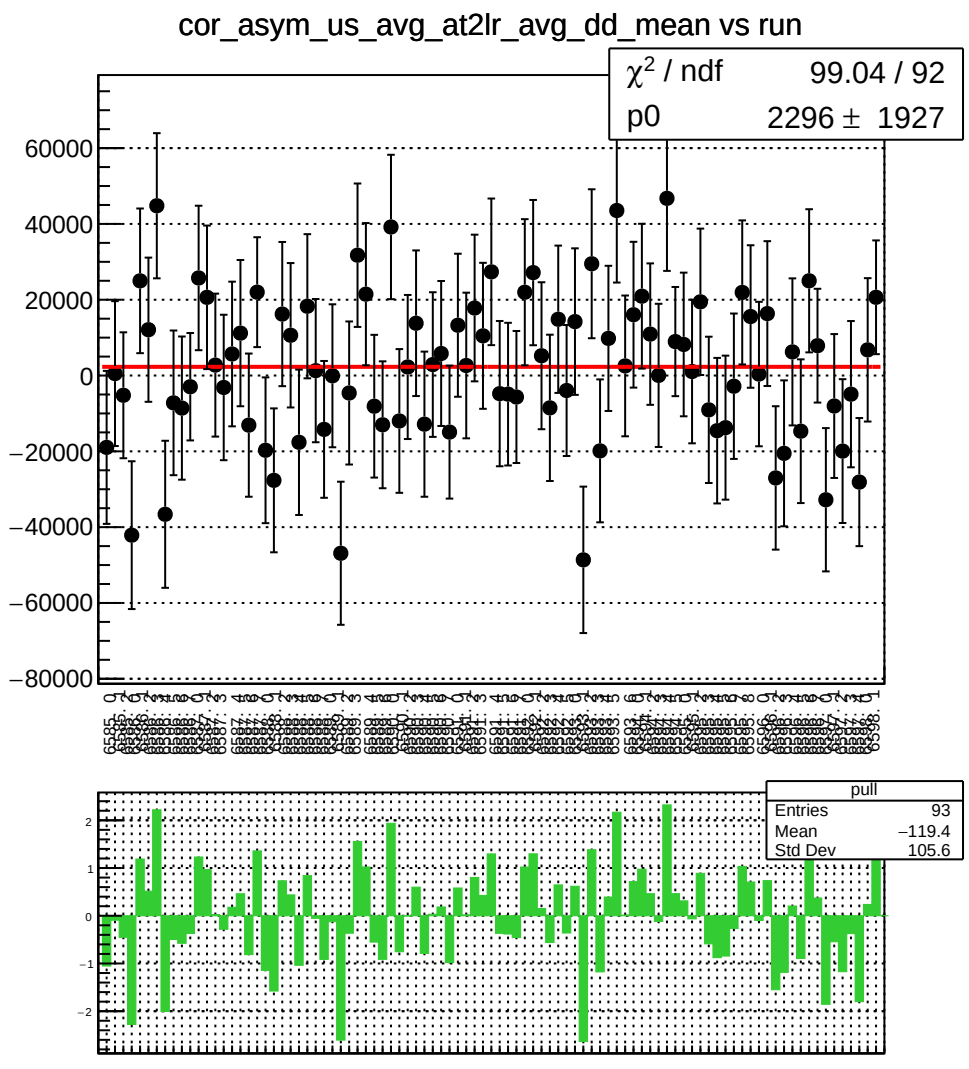

pull1D
Entries 93
Mean −0.002926
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

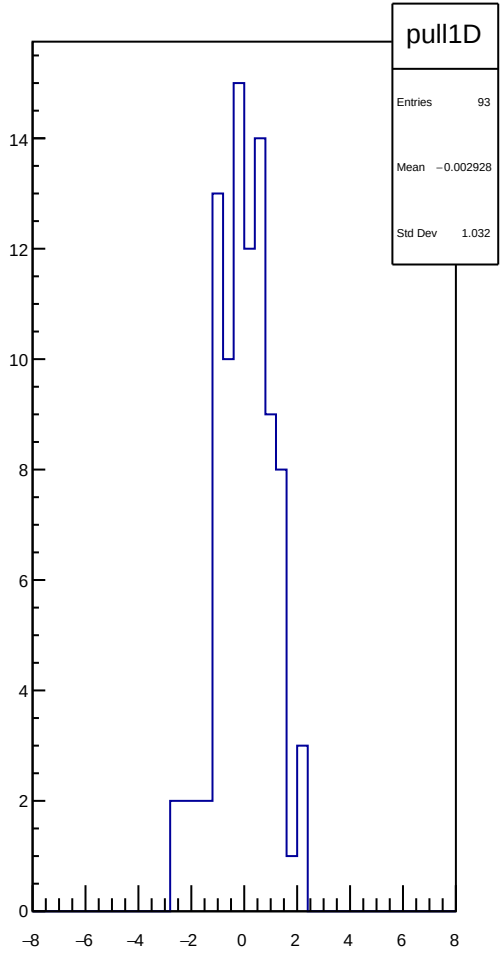

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 206.6 / 92
p0 1813 ± 1.362
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

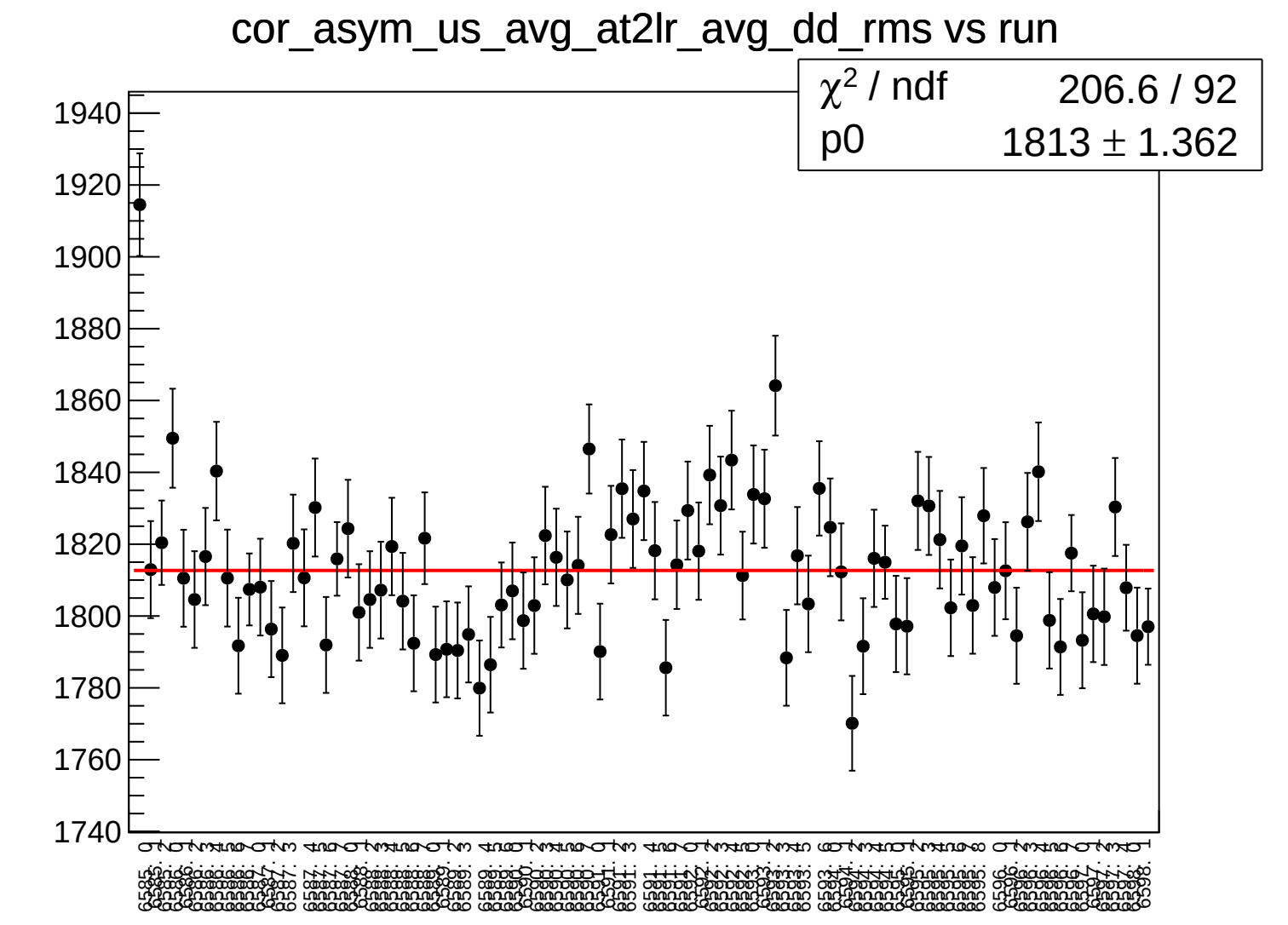

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.3 / 92
p0 −3639 ± 7235
pull
Entries 93
Mean 205.6
Std Dev 343.1

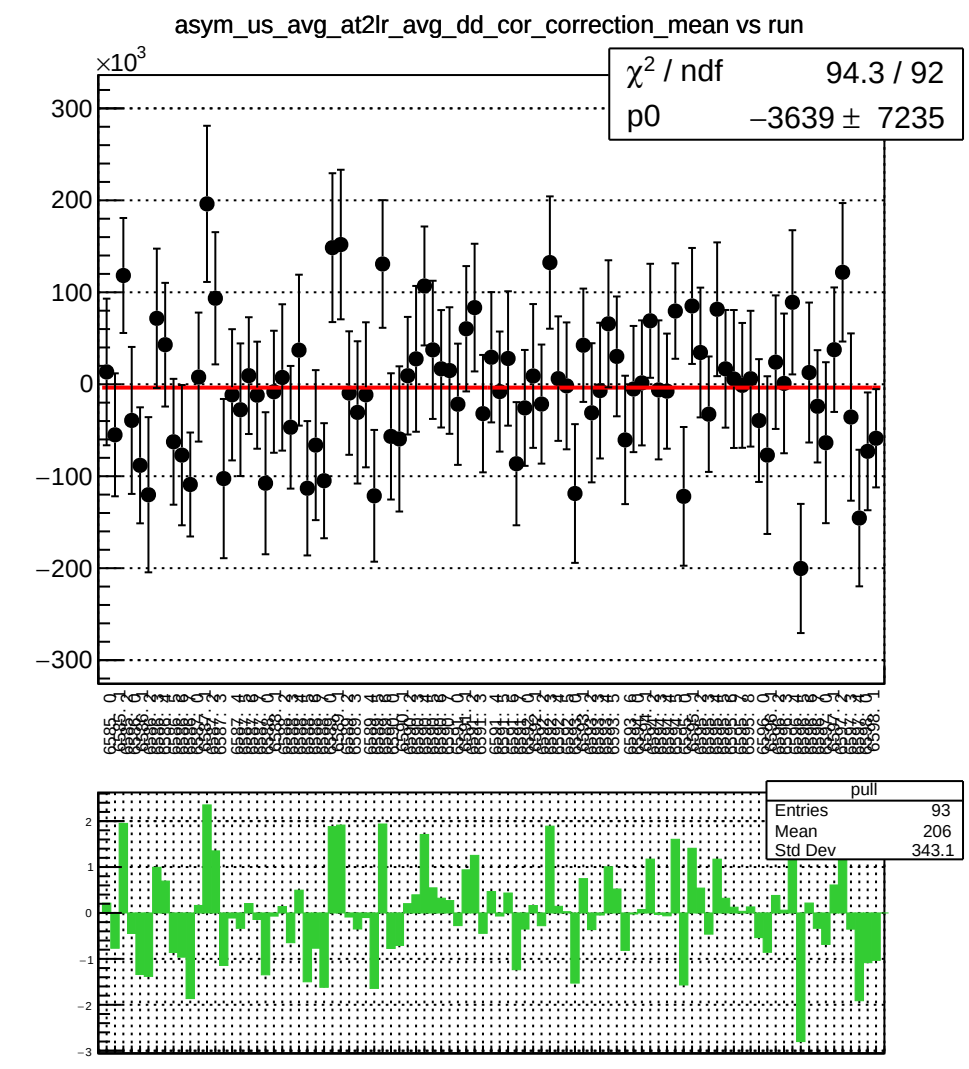

pull1D
Entries 93
Mean −0.0007953
Std Dev 1.007

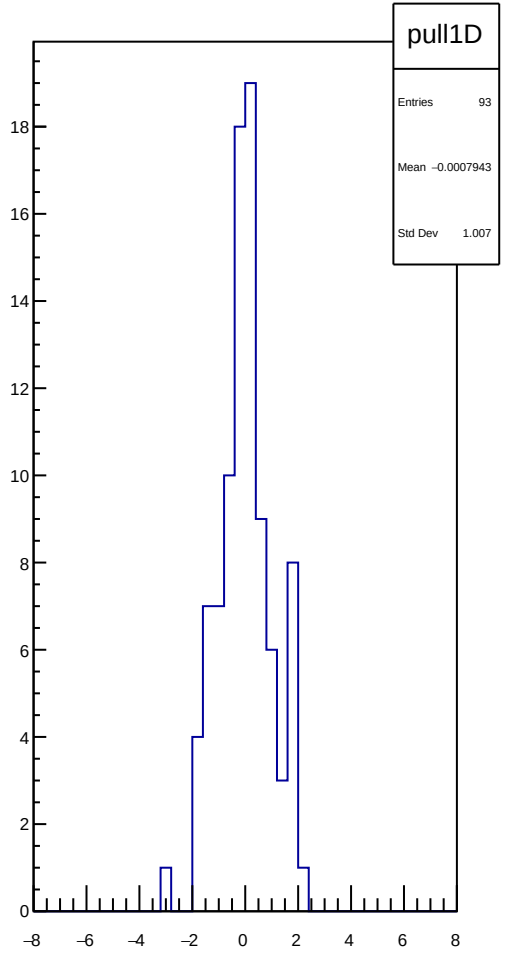

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.418e+04 / 92
p0 6780 ± 5.116
8500
8000
7500
7000
6500
6000

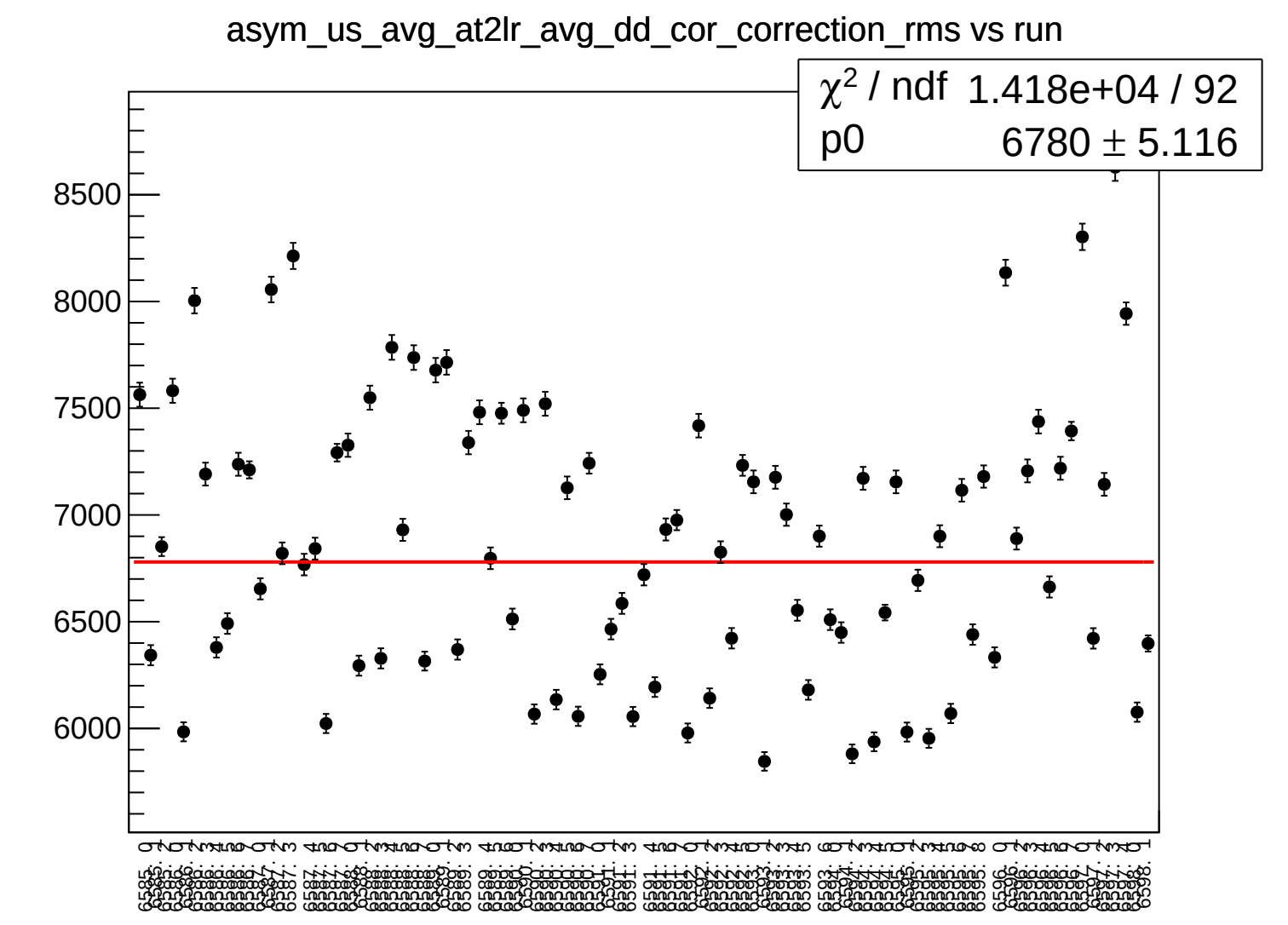

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 99.04 / 92
p0 2296 ± 1927
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −119.4
Std Dev 105.6
2
1
0
−1
−2

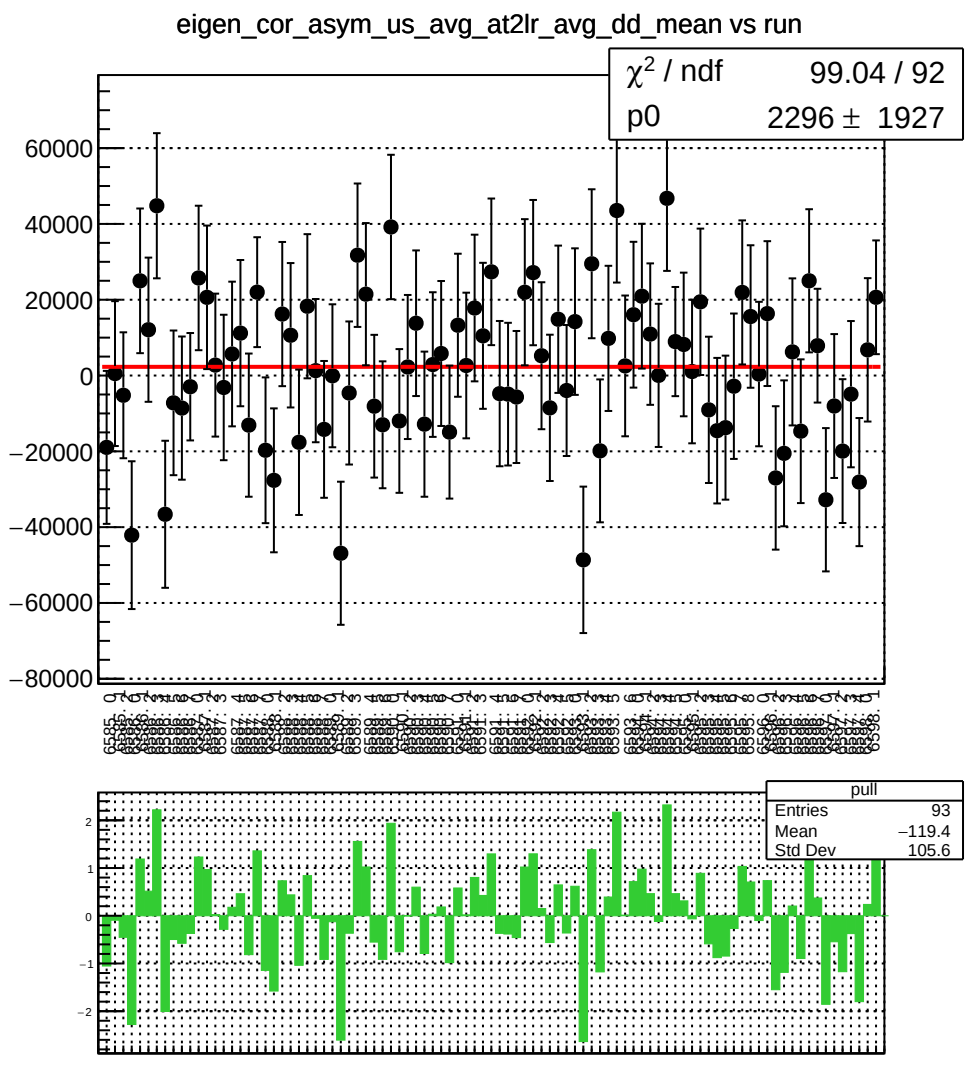

pull1D
Entries 93
Mean −0.002928
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

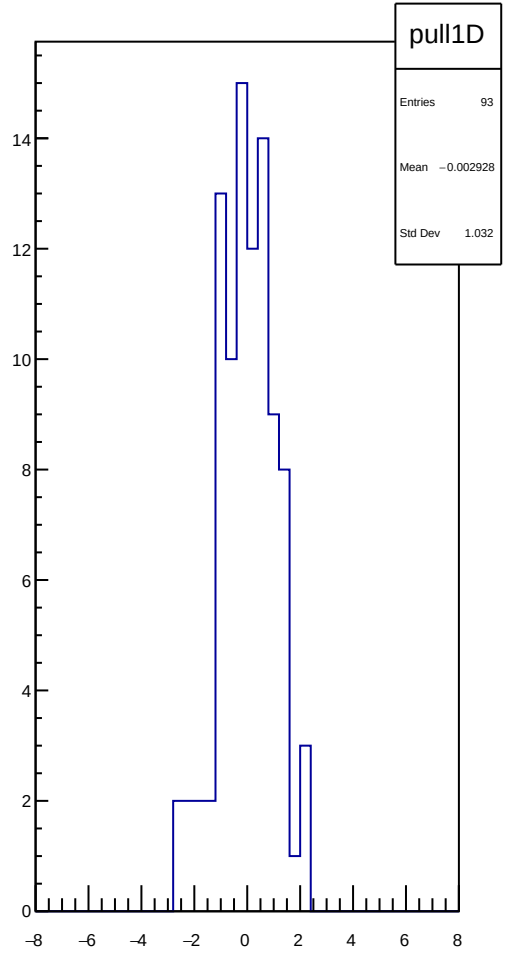

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 206.6 / 92
p0 1813 ± 1.362
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

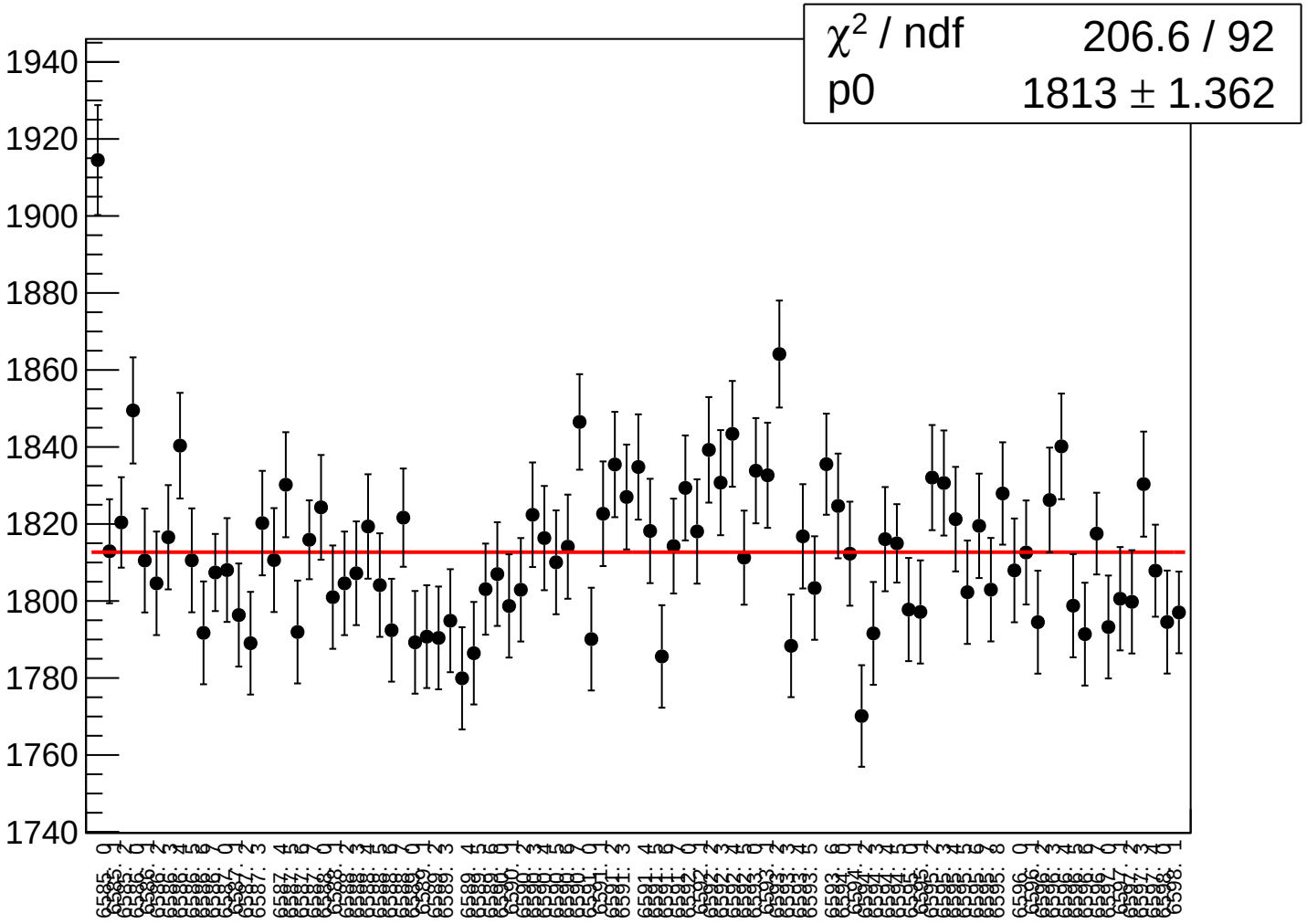

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.3 / 92
p0 −3639 ± 7235
pull
Entries 93
Mean 206
Std Dev 343.1

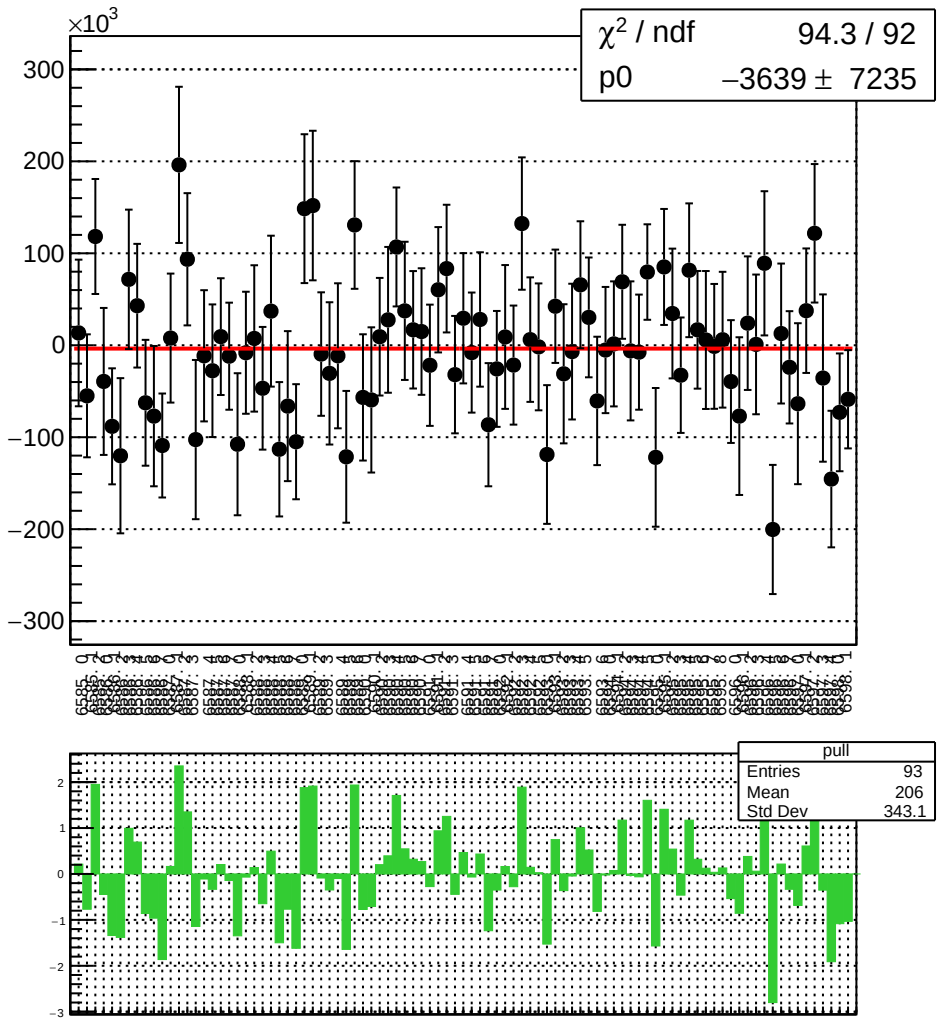

pull1D
Entries 93
Mean −0.0007943
Std Dev 1.007

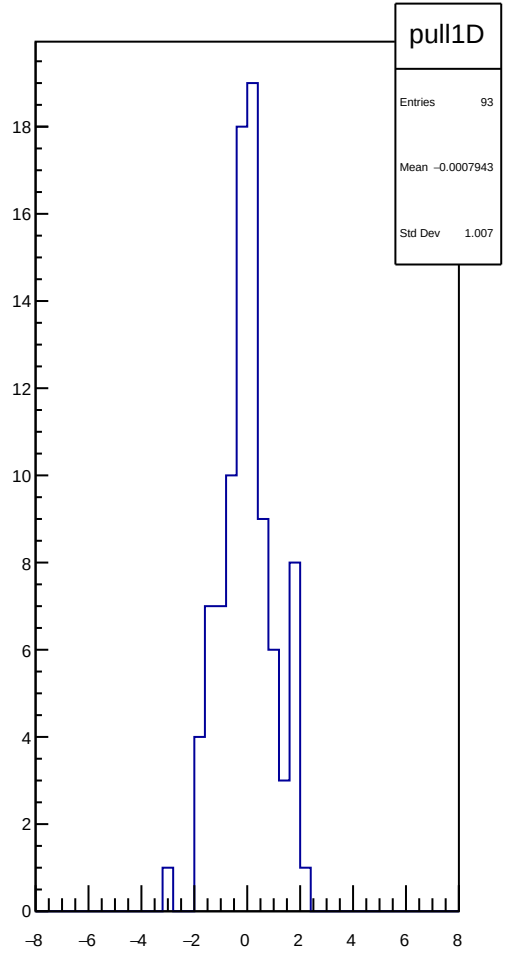

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 1.418e+04 / 92
p0 6780 ± 5.116
8500
8000
7500
7000
6500
6000

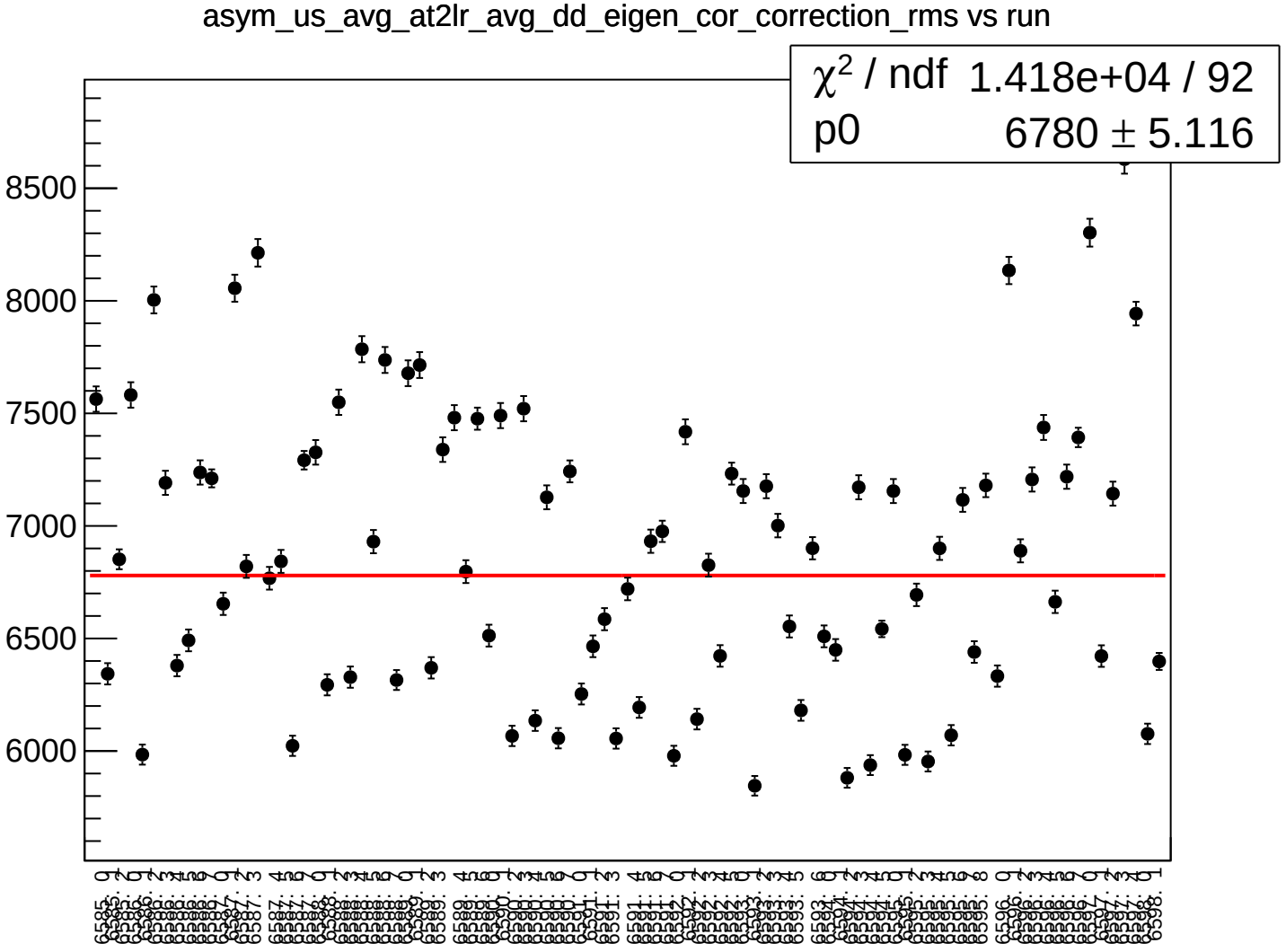

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 99.04 / 92
p0 2296 ± 1927
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −119.4
Std Dev 105.6
2
1
0
−1
−2

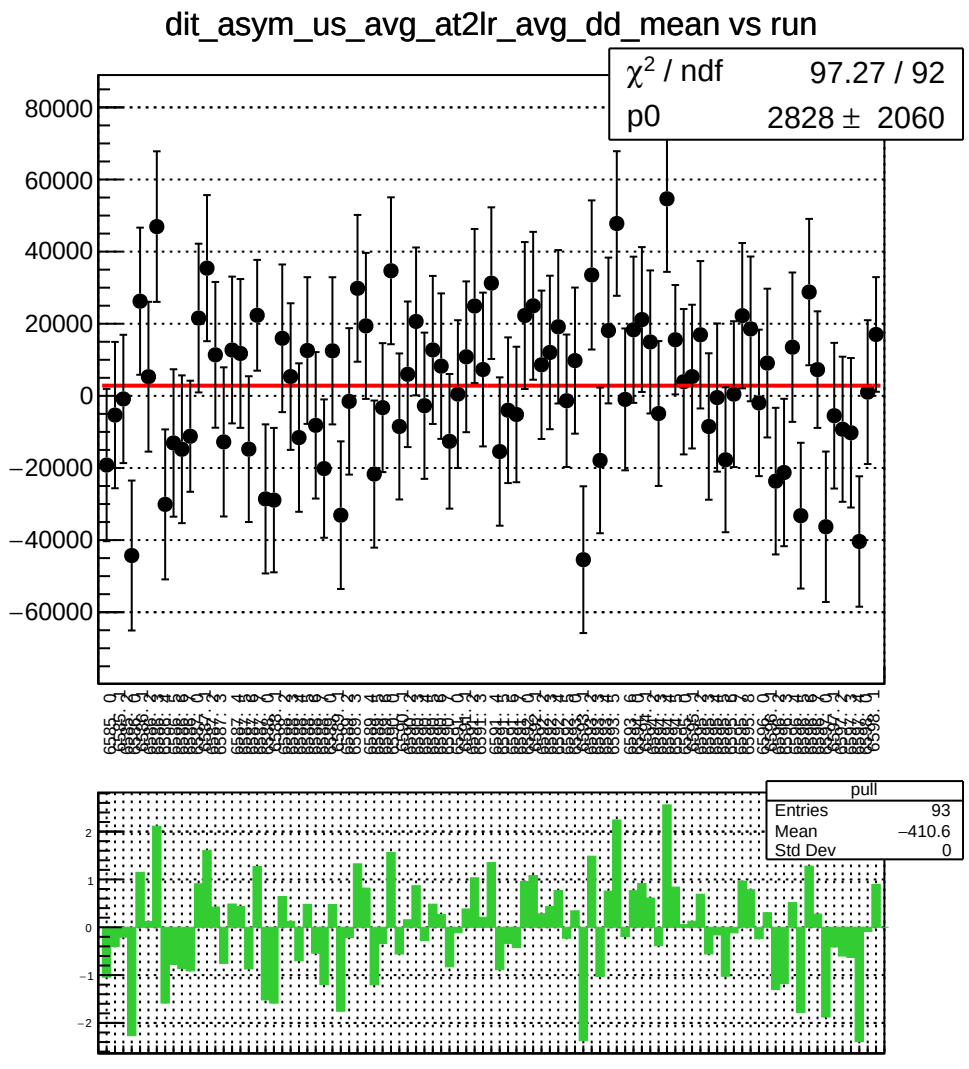

pull1D
Entries 93
Mean −0.002928
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

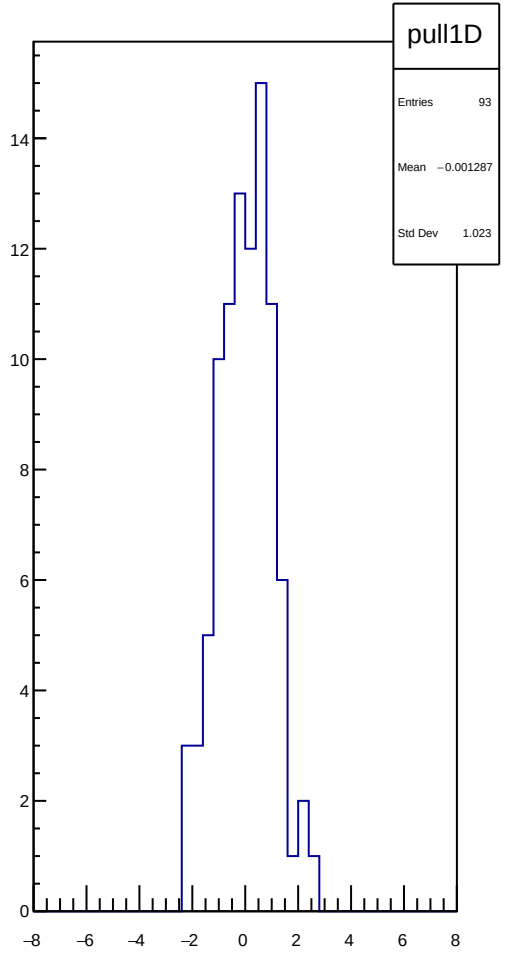

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 206.6 / 92
p0 1813 ± 1.362
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

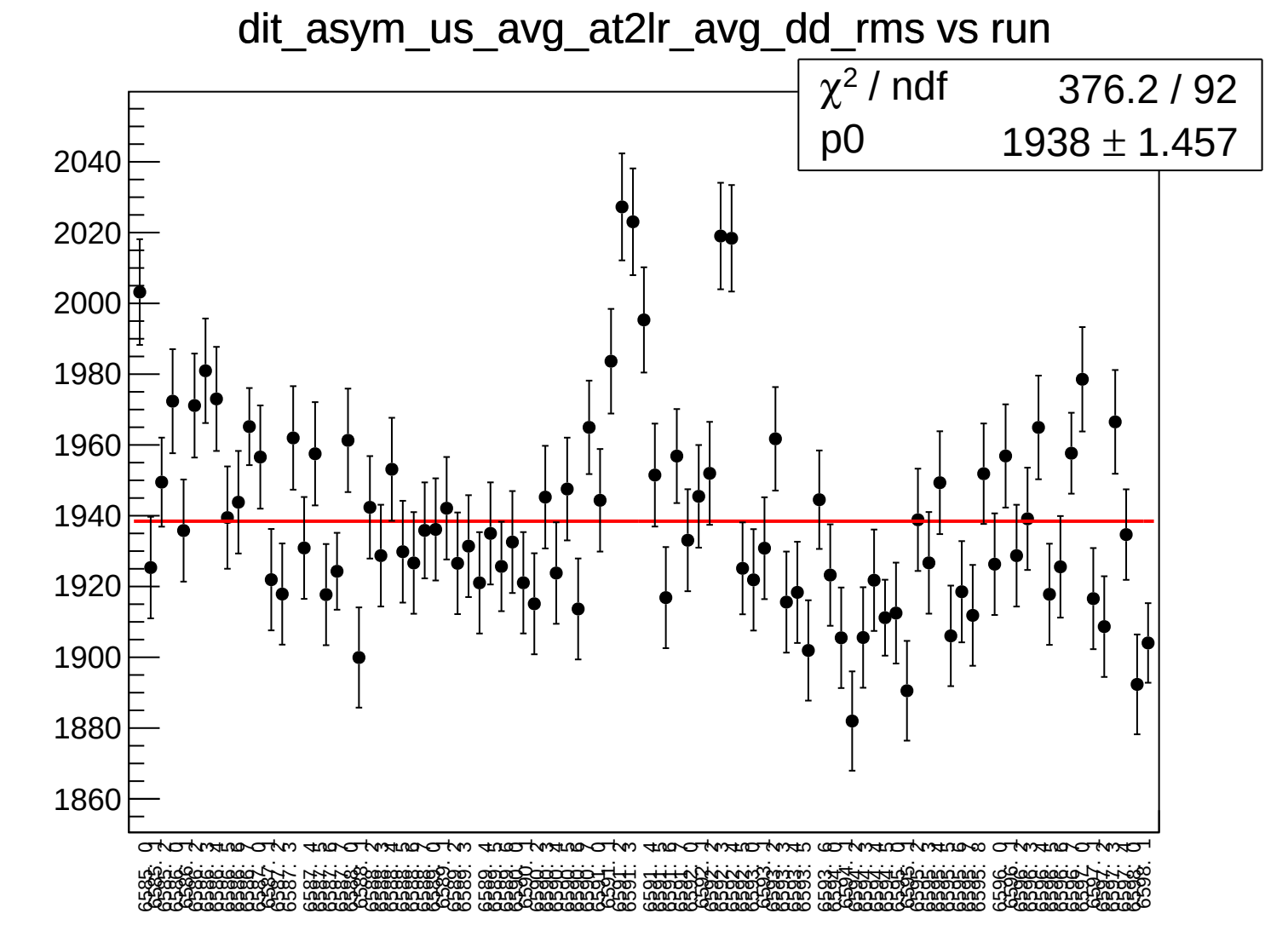

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.3 / 92
p0 −3639 ± 7235
pull
Entries 93
Mean 206
Std Dev 343.1

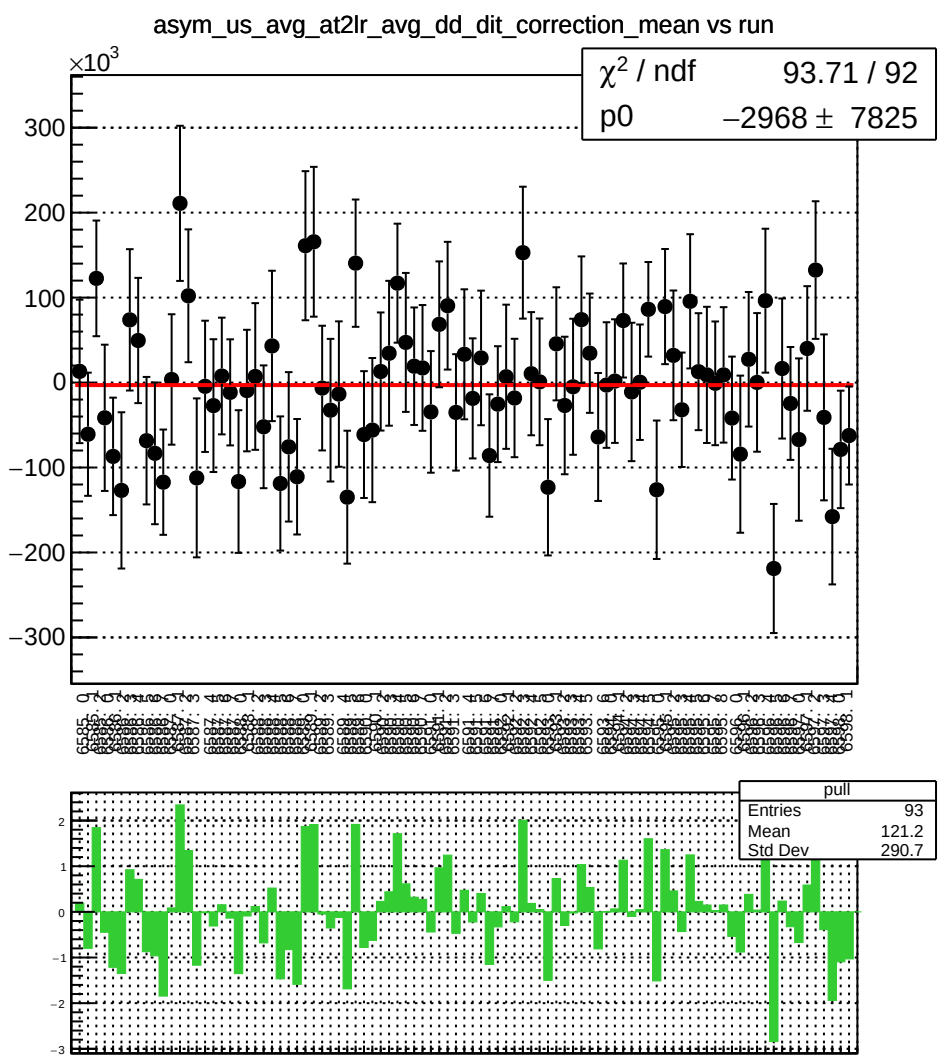

pull1D
Entries 93
Mean −0.0007943
Std Dev 1.007

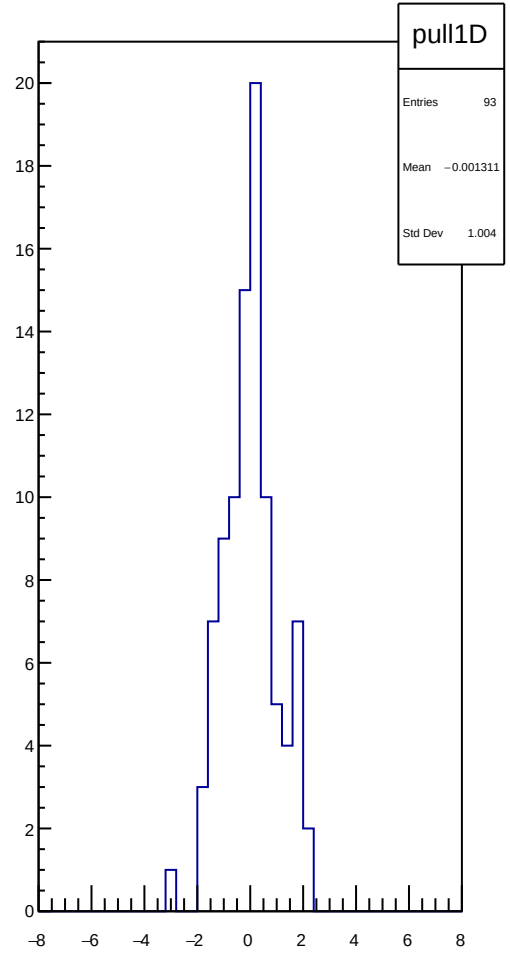

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.418e+04 / 92
p0 6780 ± 5.116
8500
8000
7500
7000
6500
6000

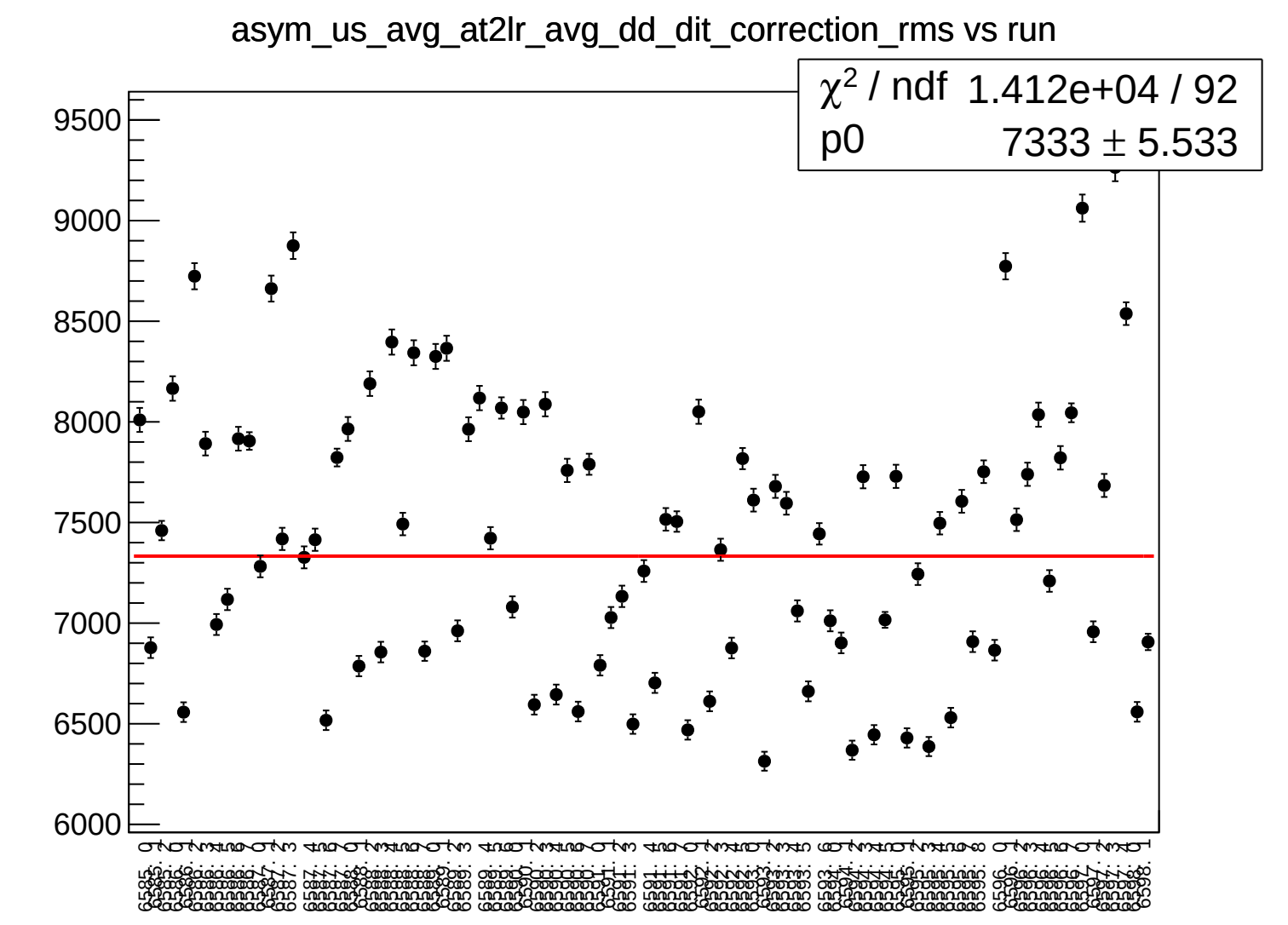

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 97.27 / 92
p0 2828 ± 2060
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −410.6
Std Dev 0
2
1
0
−1
−2

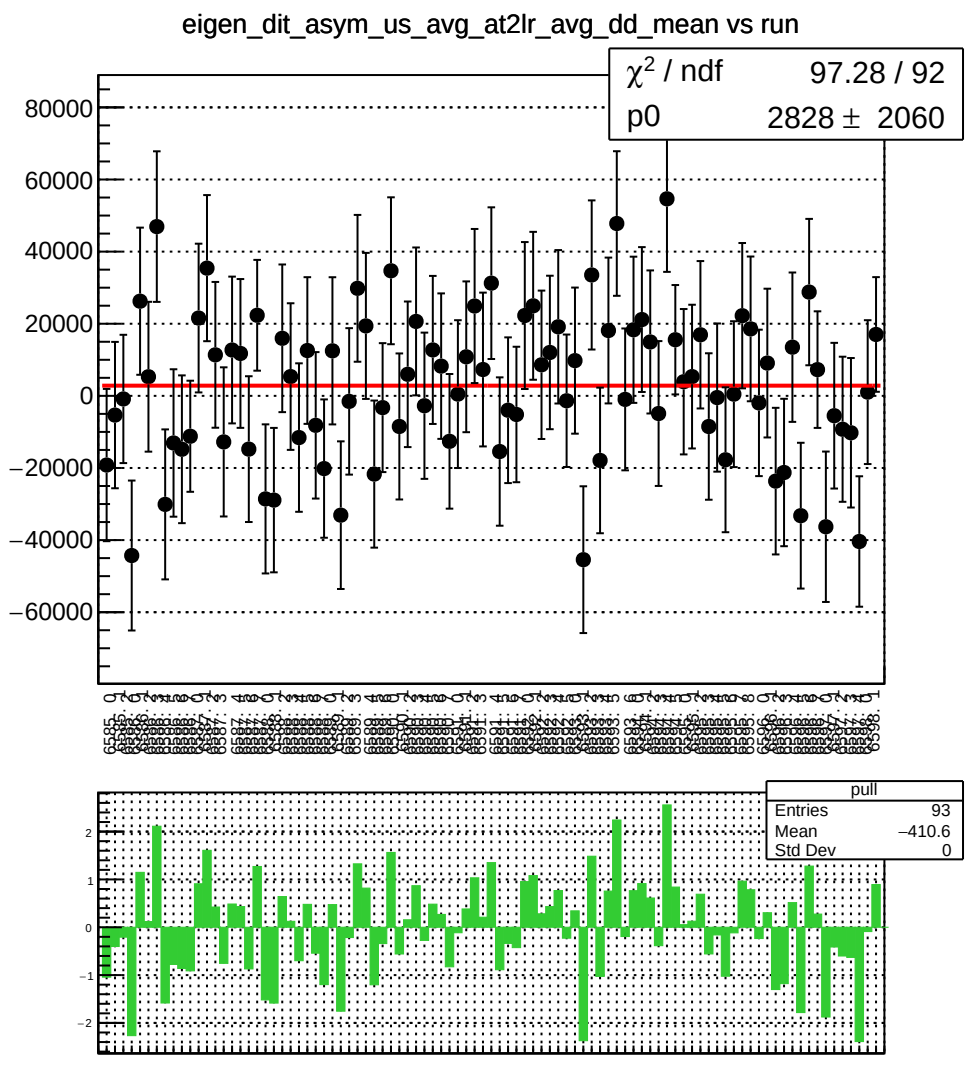

pull1D
Entries 93
Mean −0.001287
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

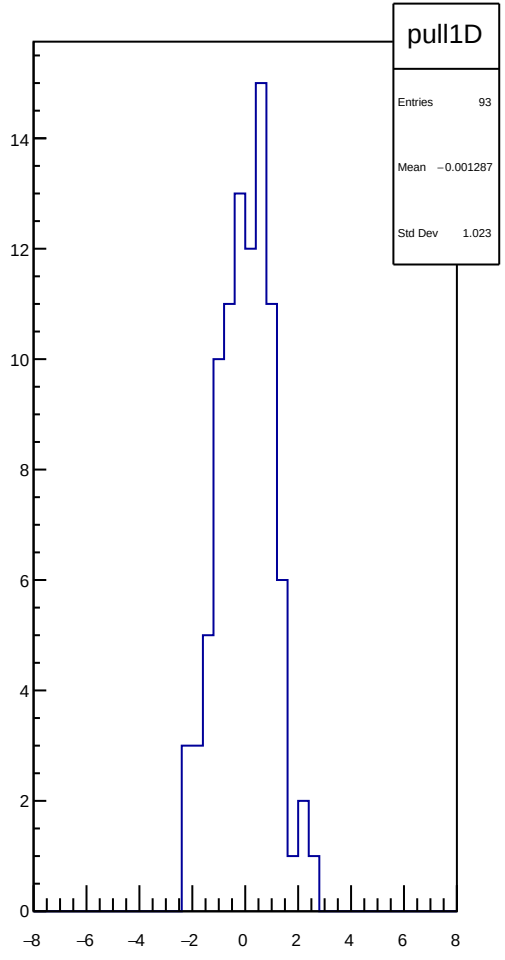

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 376.2 / 92
p0 1938 ± 1.457
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860

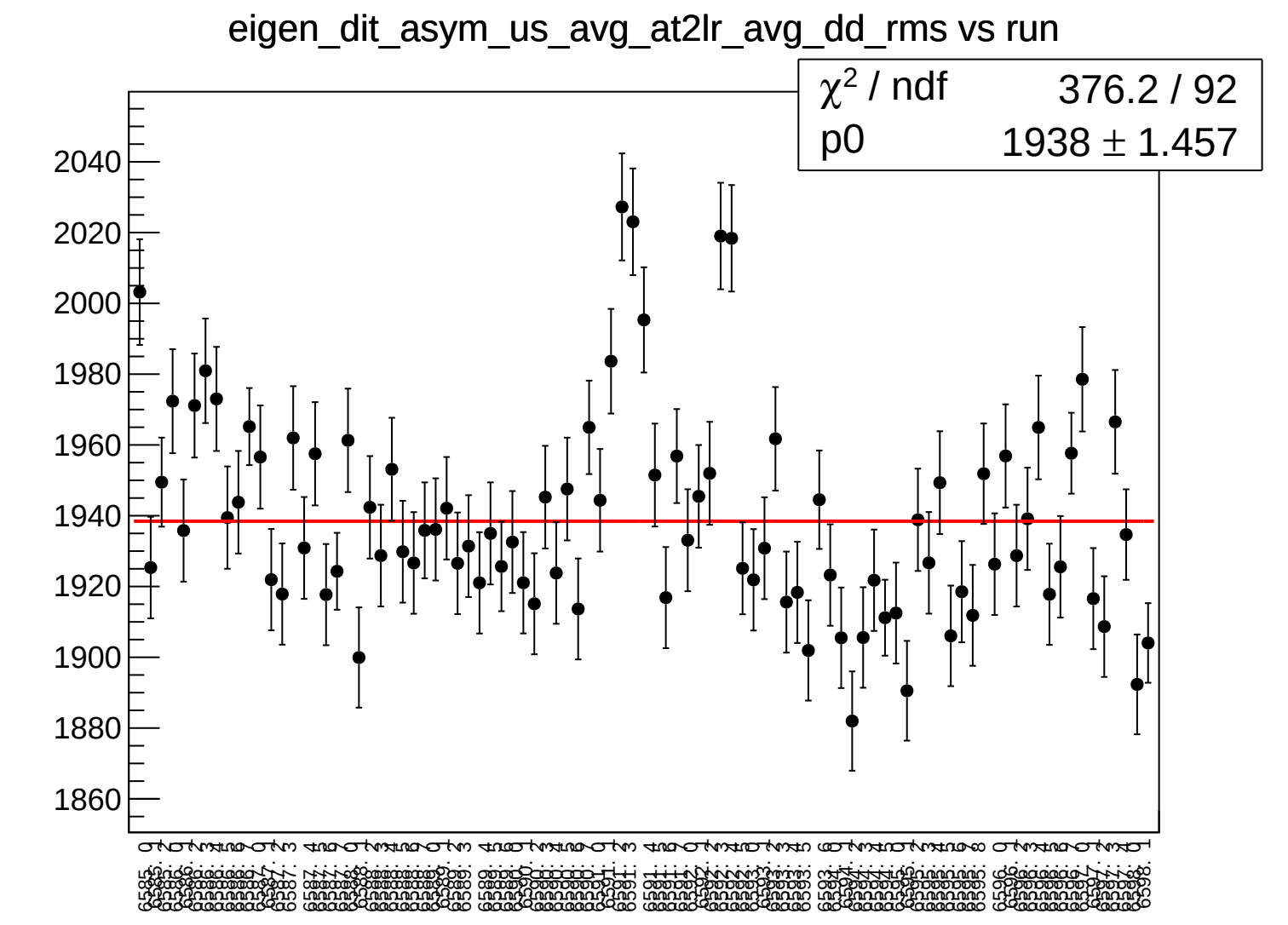

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 93.71 / 92
p0 −2968 ± 7825
pull
Entries 93
Mean 121.2
Std Dev 290.7

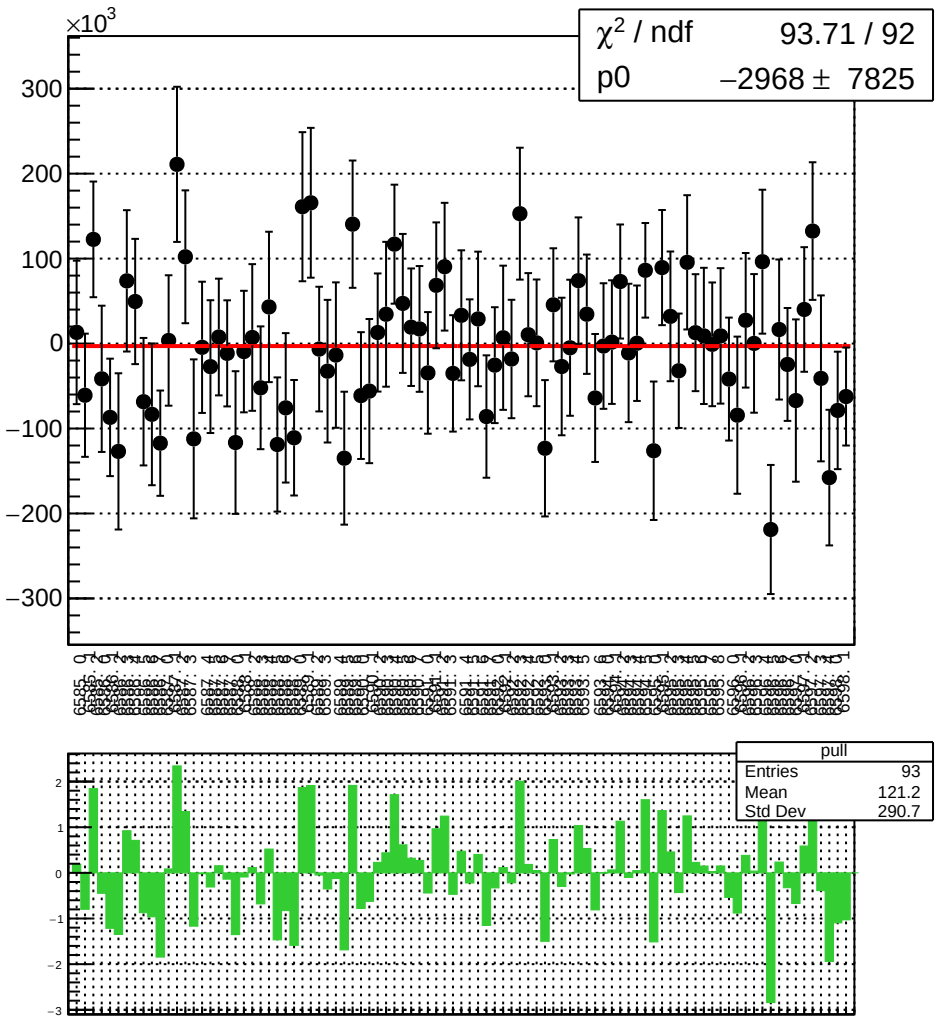

pull1D
Entries 93
Mean −0.001311
Std Dev 1.004

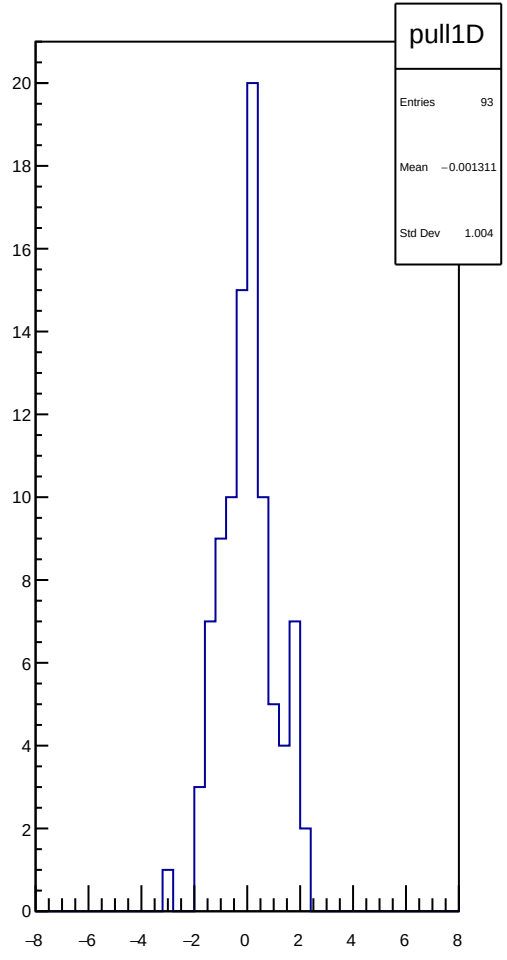

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.412e+04 / 92
p0 7333 ± 5.533
9500
9000
8500
8000
7500
7000
6500
6000

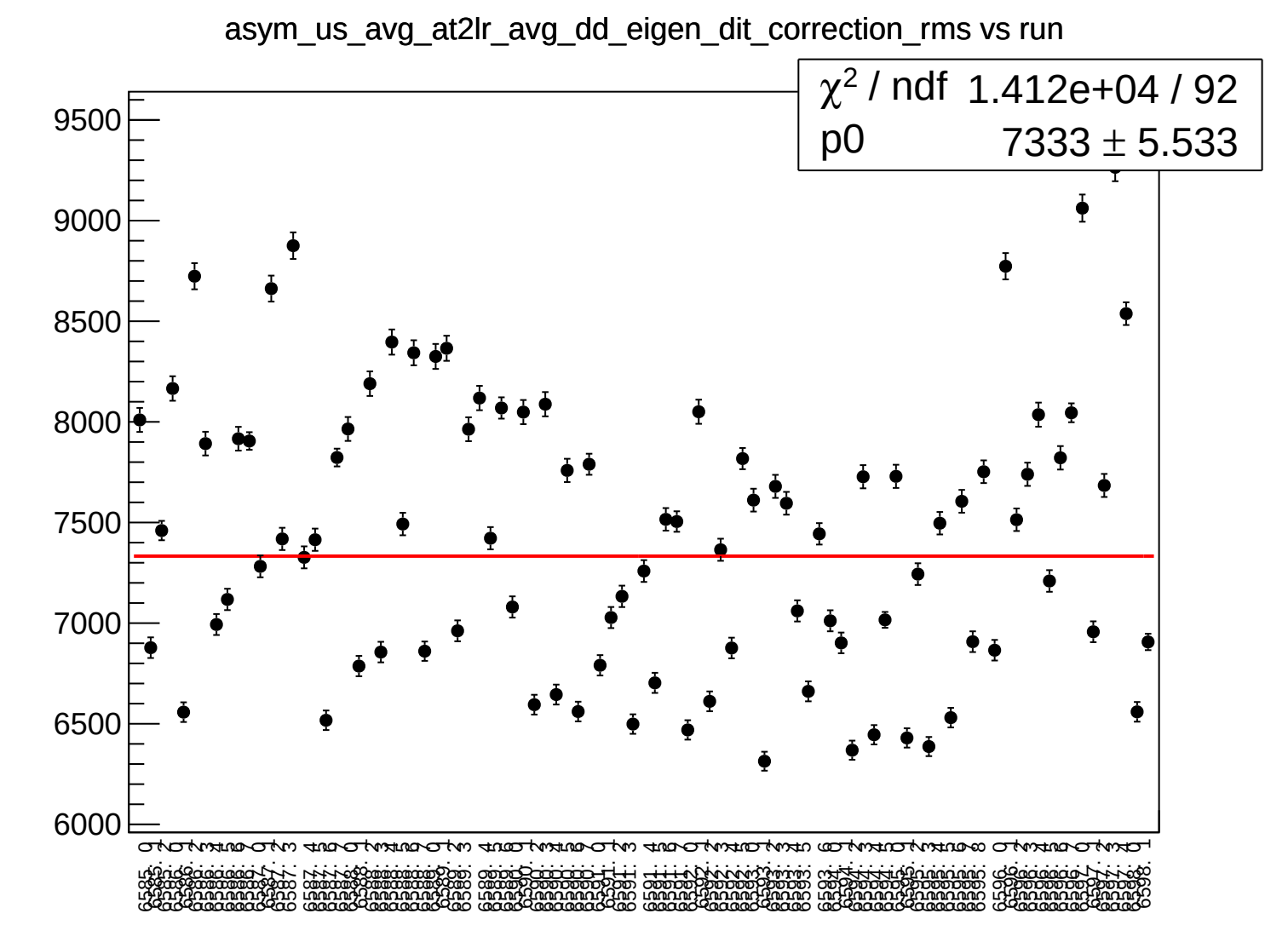

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 97.28 / 92
p0 2828 ± 2060
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −410.6
Std Dev 0
2
1
0
−1
−2

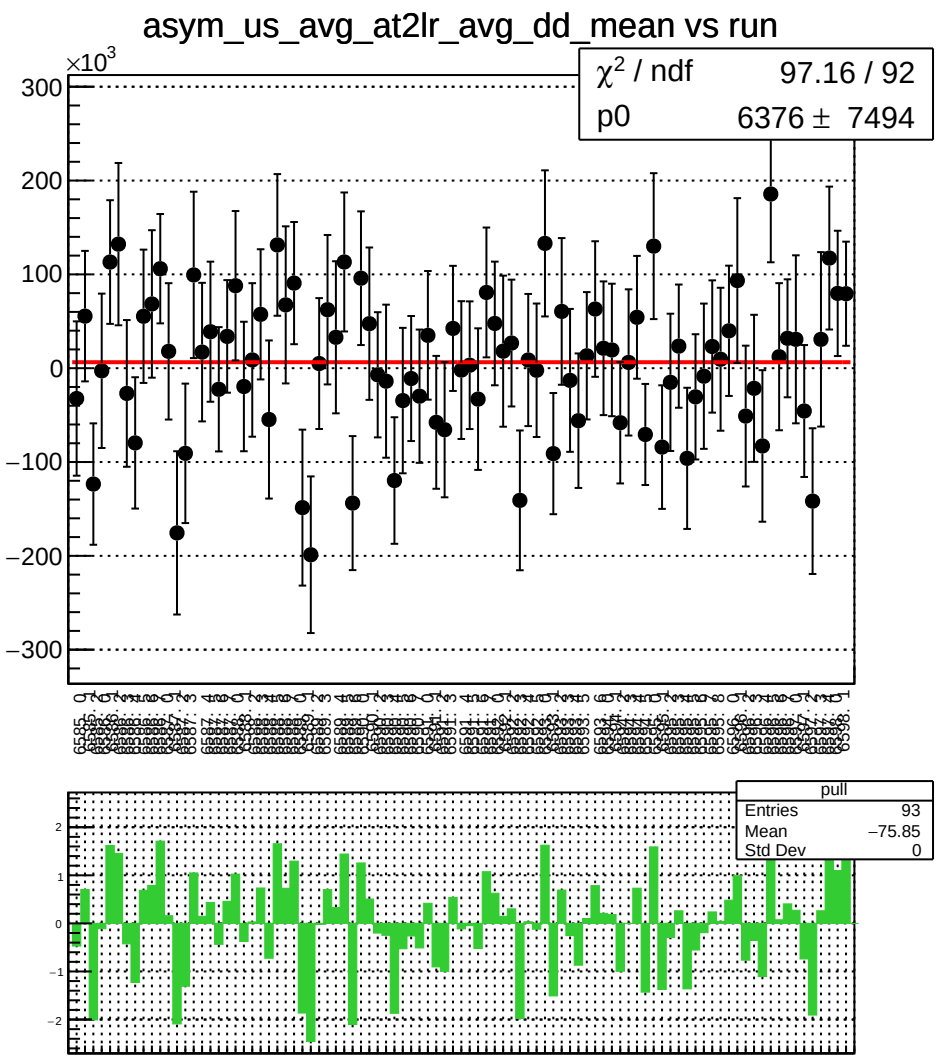

pull1D
Entries 93
Mean −0.001287
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

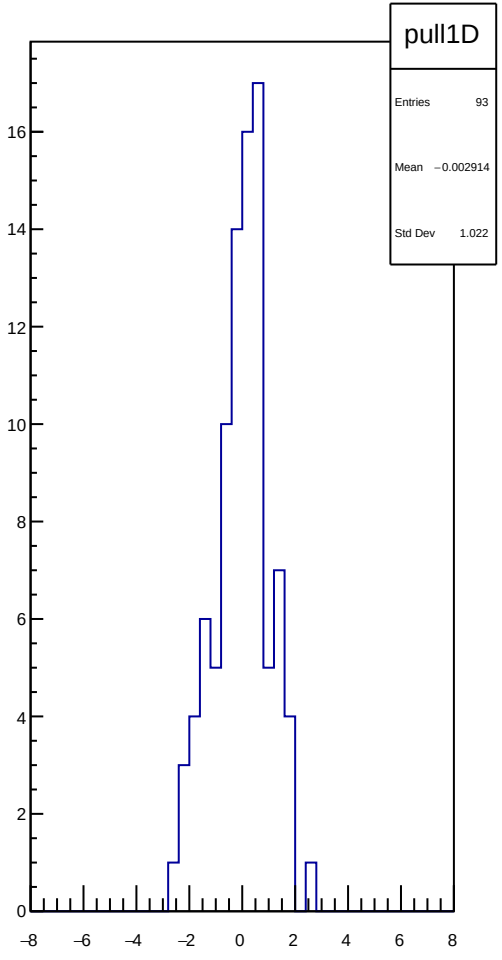

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 376.2 / 92
p0 1938 ± 1.457
2040
2020
2000
1980
1960
1940
1920
1900
1880
1860

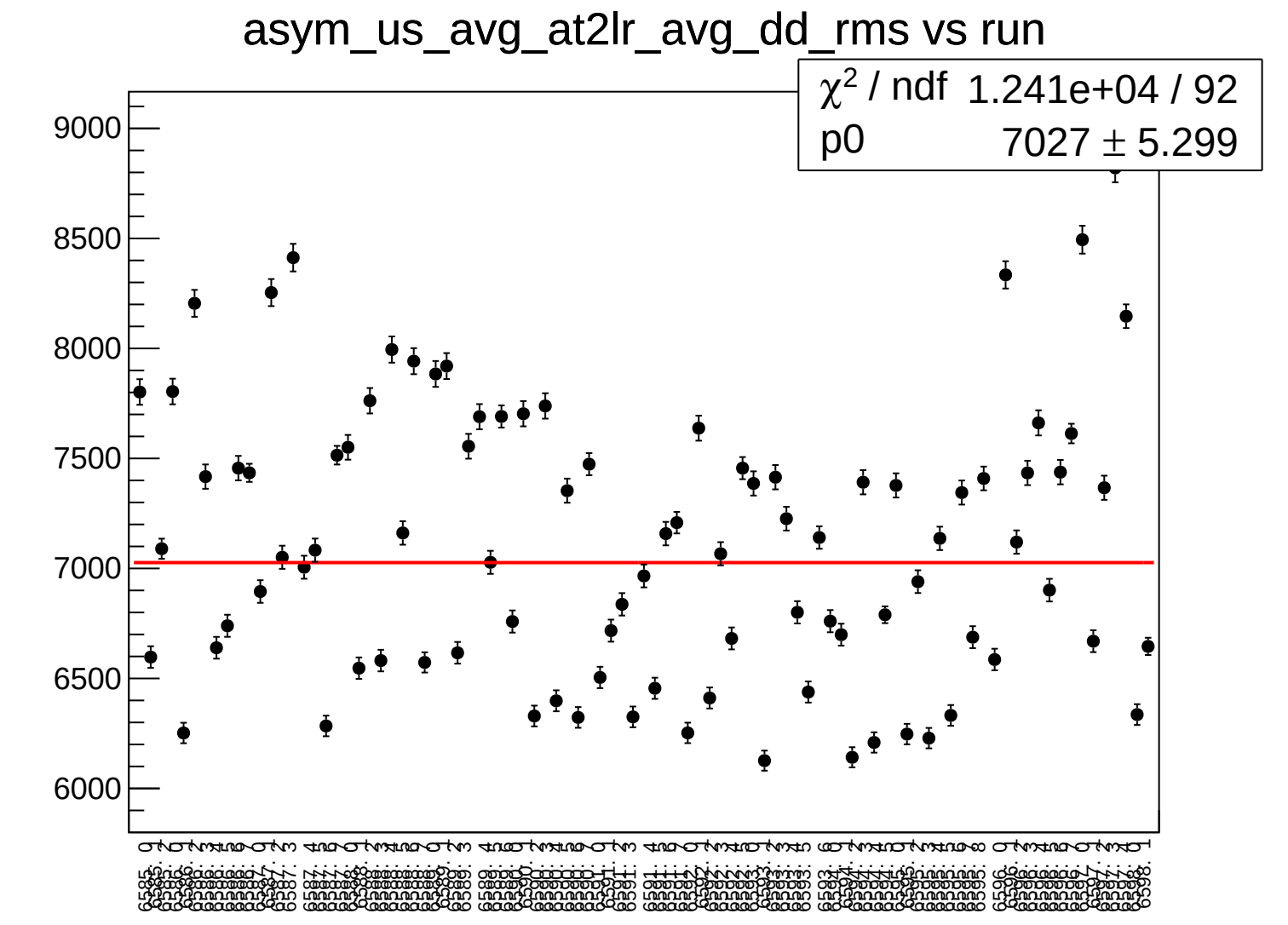

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.71 / 92
p0 −2968 ± 7825
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 121.2
Std Dev 290.7
2
1
0
−1
−2
−3

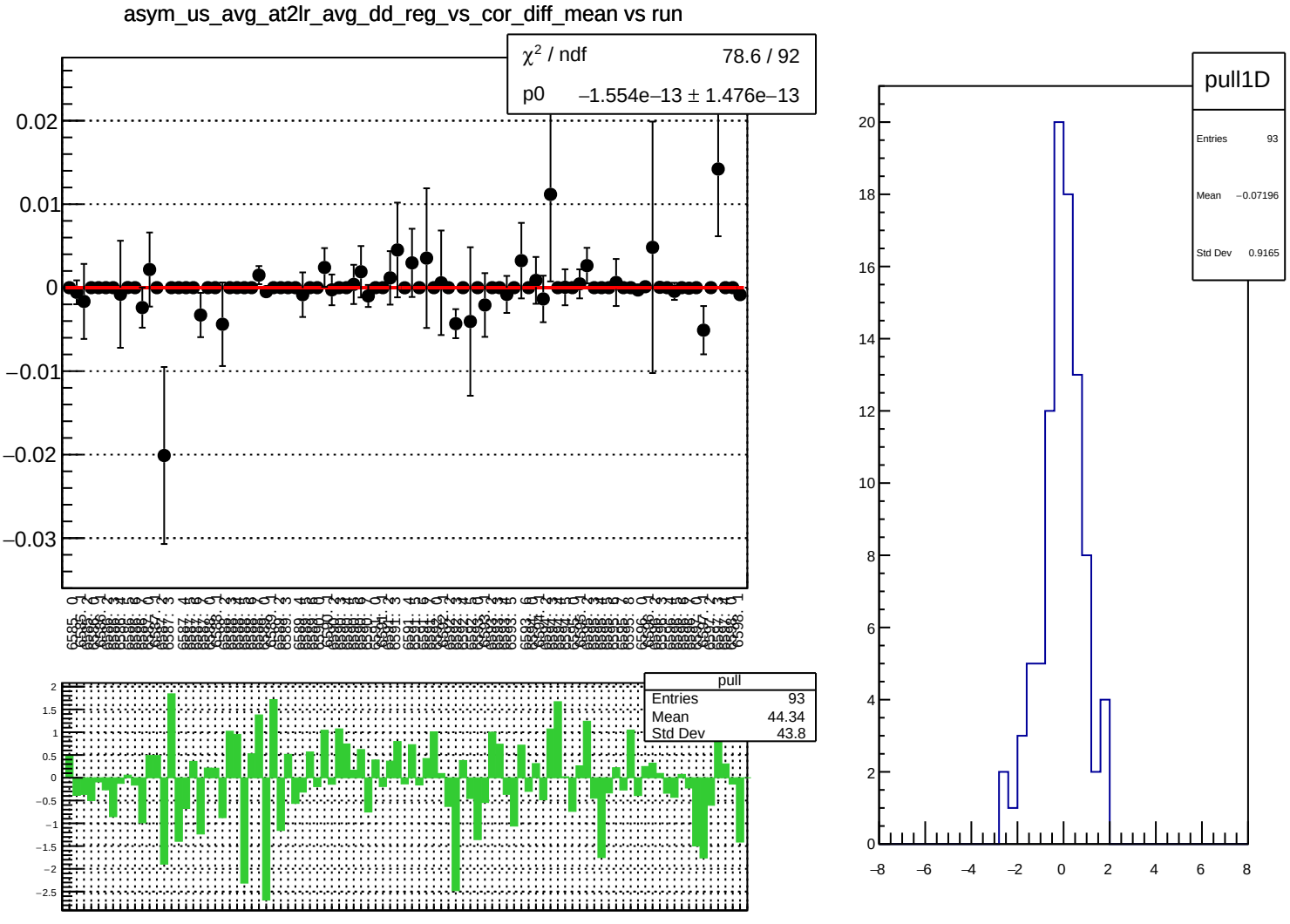

pull1D
Entries 93
Mean −0.001311
Std Dev 1.004
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

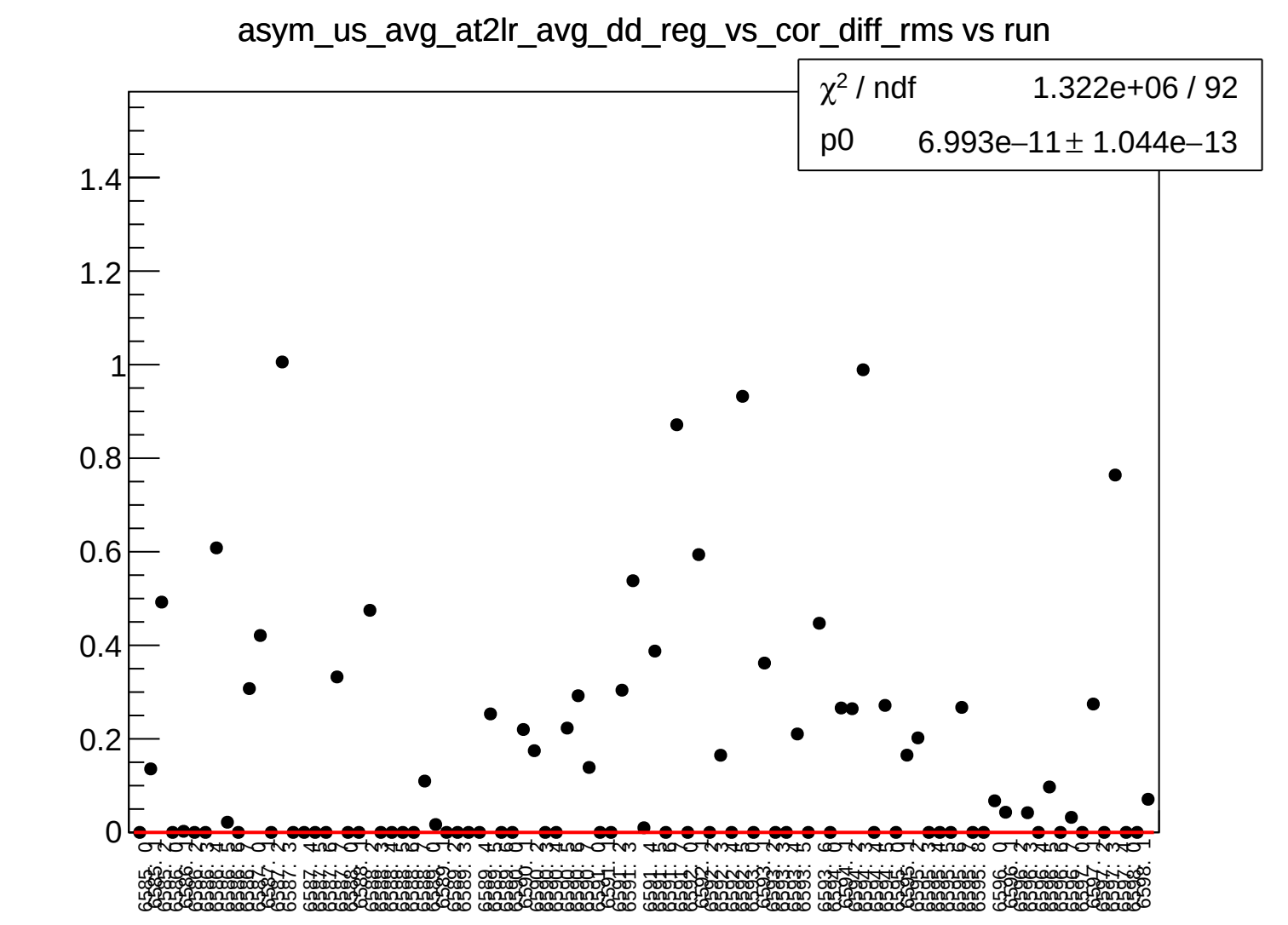

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.412e+04 / 92
p0 7333 ± 5.533
9500
9000
8500
8000
7500
7000
6500
6000

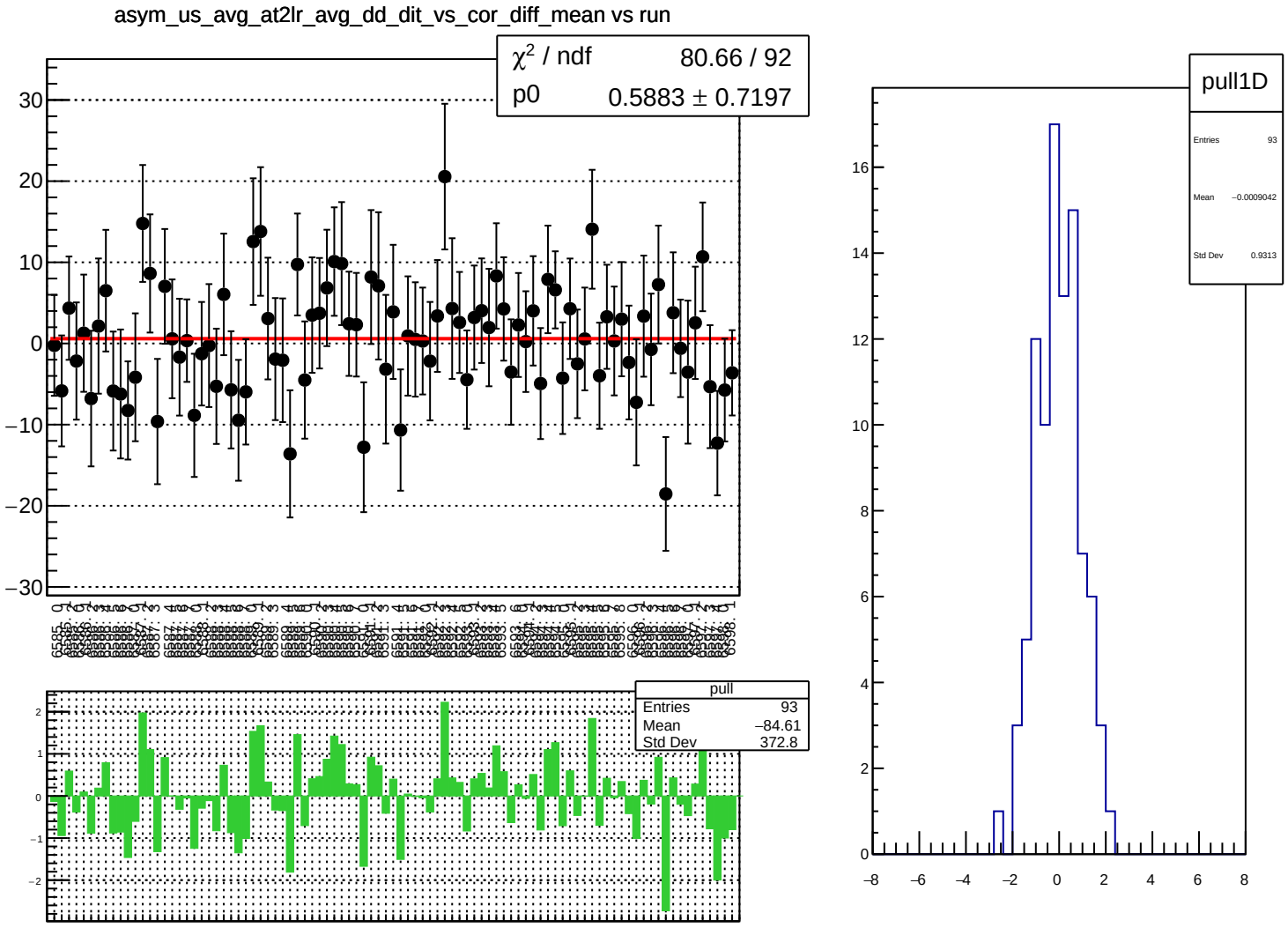

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 97.16 / 92
p0 6376 ± 7494
pull
Entries 93
Mean −75.85
Std Dev 0

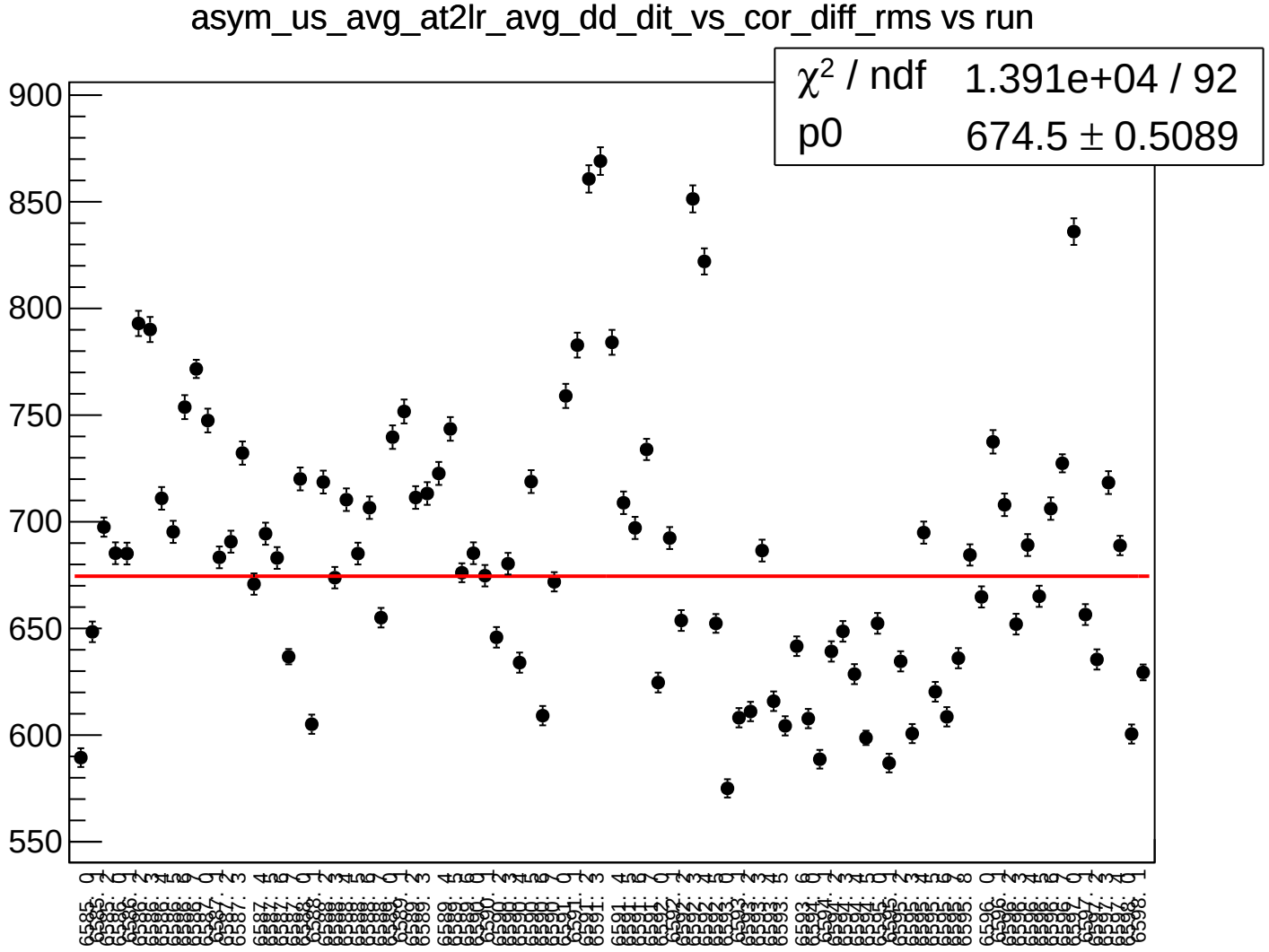

pull1D
Entries 93
Mean −0.002914
Std Dev 1.022

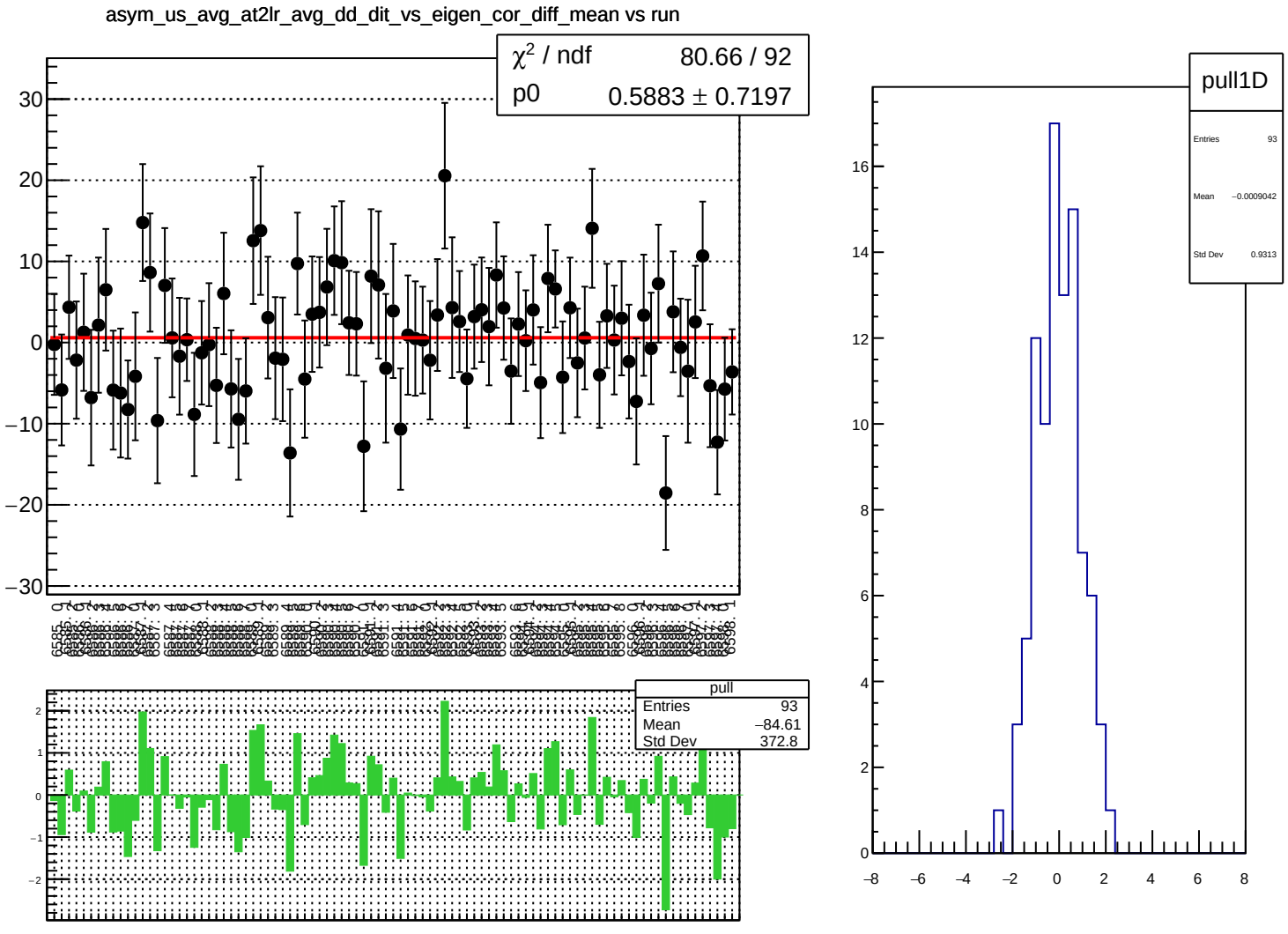

asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 1.241e+04 / 92
p0 7027 ± 5.299
9000
8500
8000
7500
7000
6500
6000

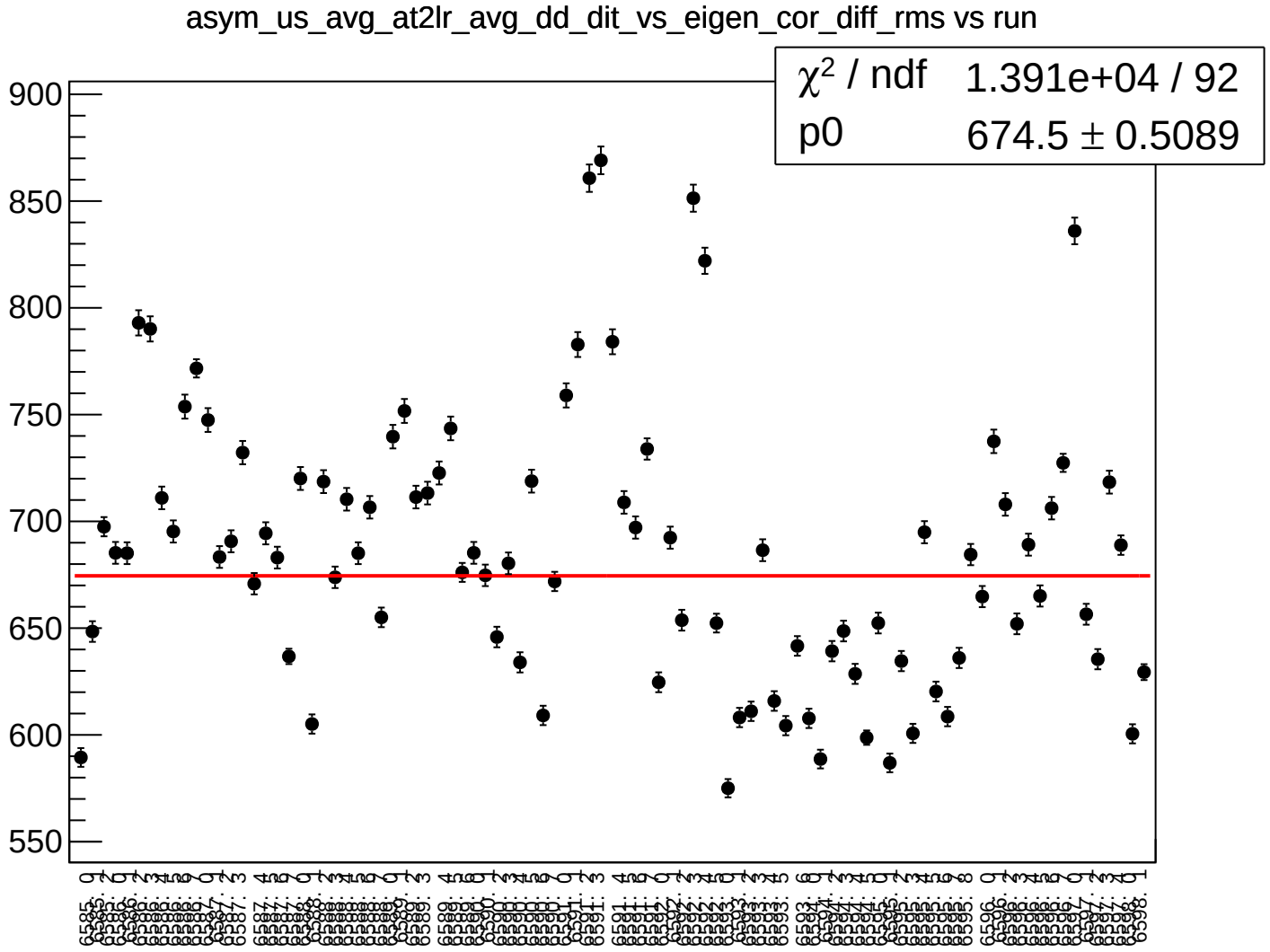

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.6 / 92
p0 −1.554e−13 ± 1.476e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 44.34
Std Dev 43.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.07196
Std Dev 0.9165
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

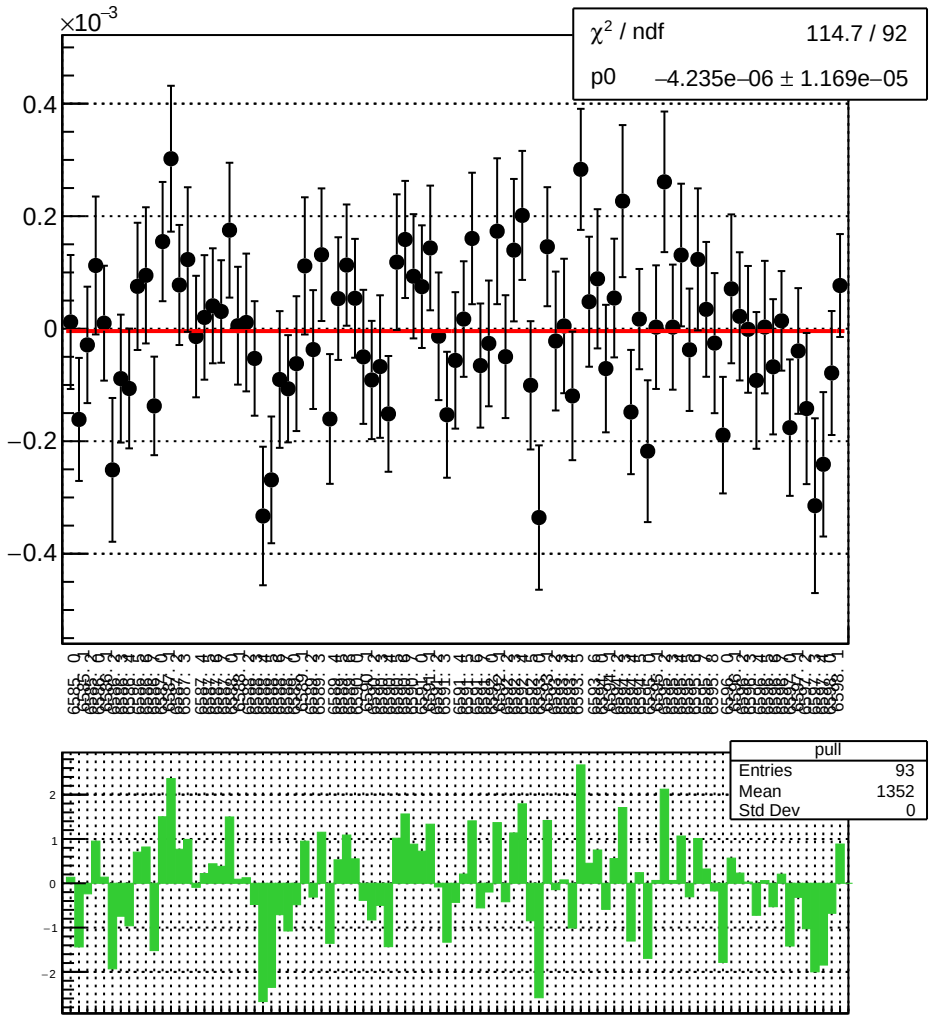

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.322e+06 / 92
p0 6.993e−11 ± 1.044e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

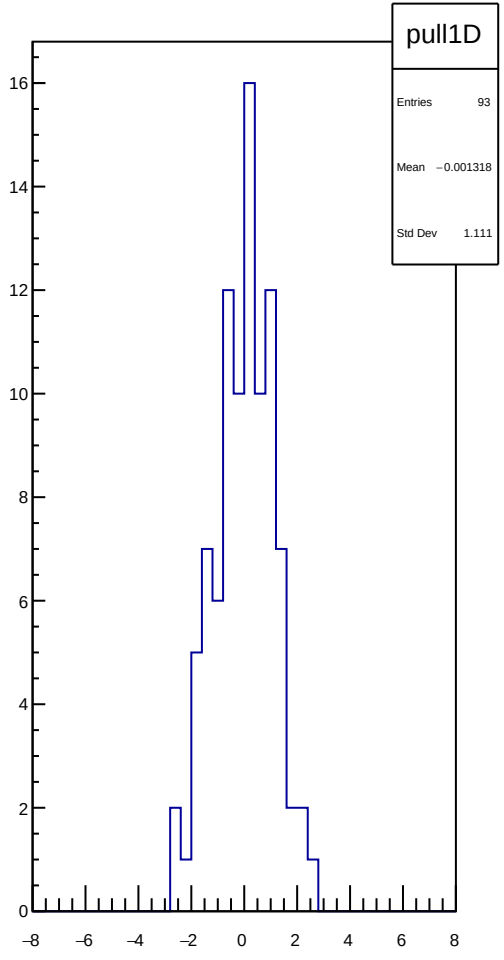

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.66 / 92
p0 0.5883 ± 0.7197
pull
Entries 93
Mean −84.61
Std Dev 372.8
pull1D
Entries 93
Mean −0.0009042
Std Dev 0.9313

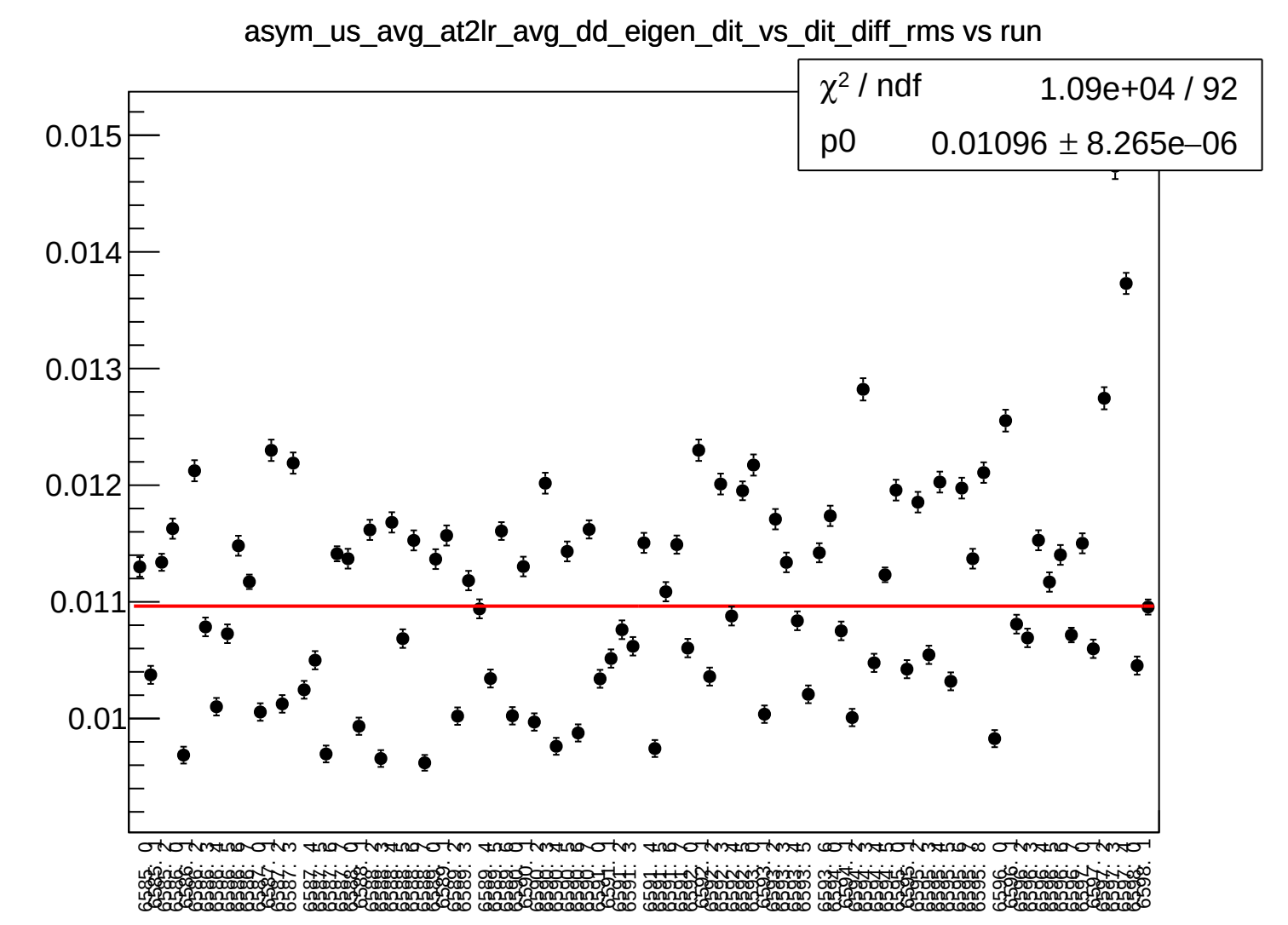

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 92
p0 674.5 ± 0.5089
900
850
800
750
700
650
600
550

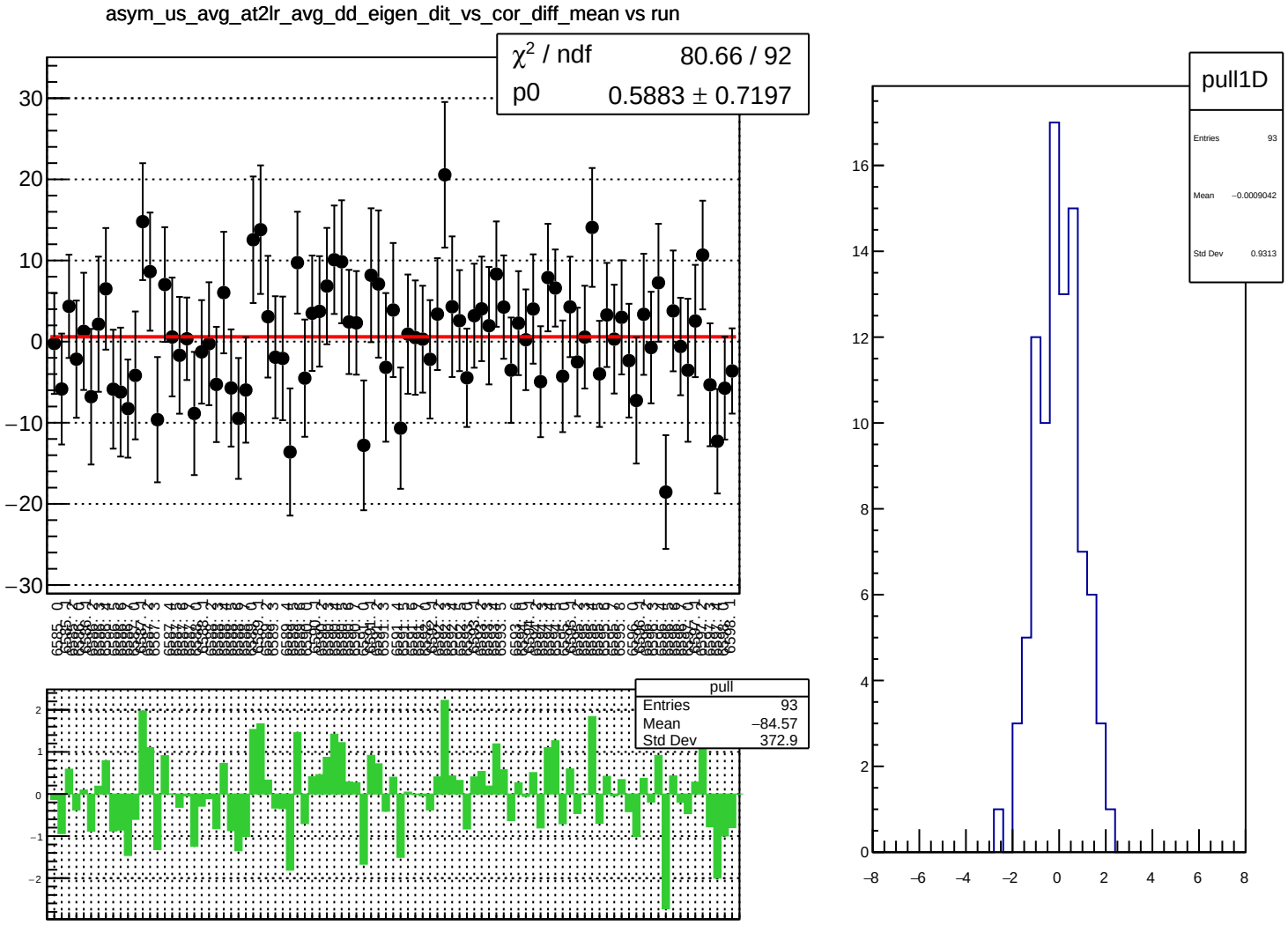

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.66 / 92
p0 0.5883 ± 0.7197
pull
Entries 93
Mean −84.61
Std Dev 372.8
pull1D
Entries 93
Mean −0.0009042
Std Dev 0.9313

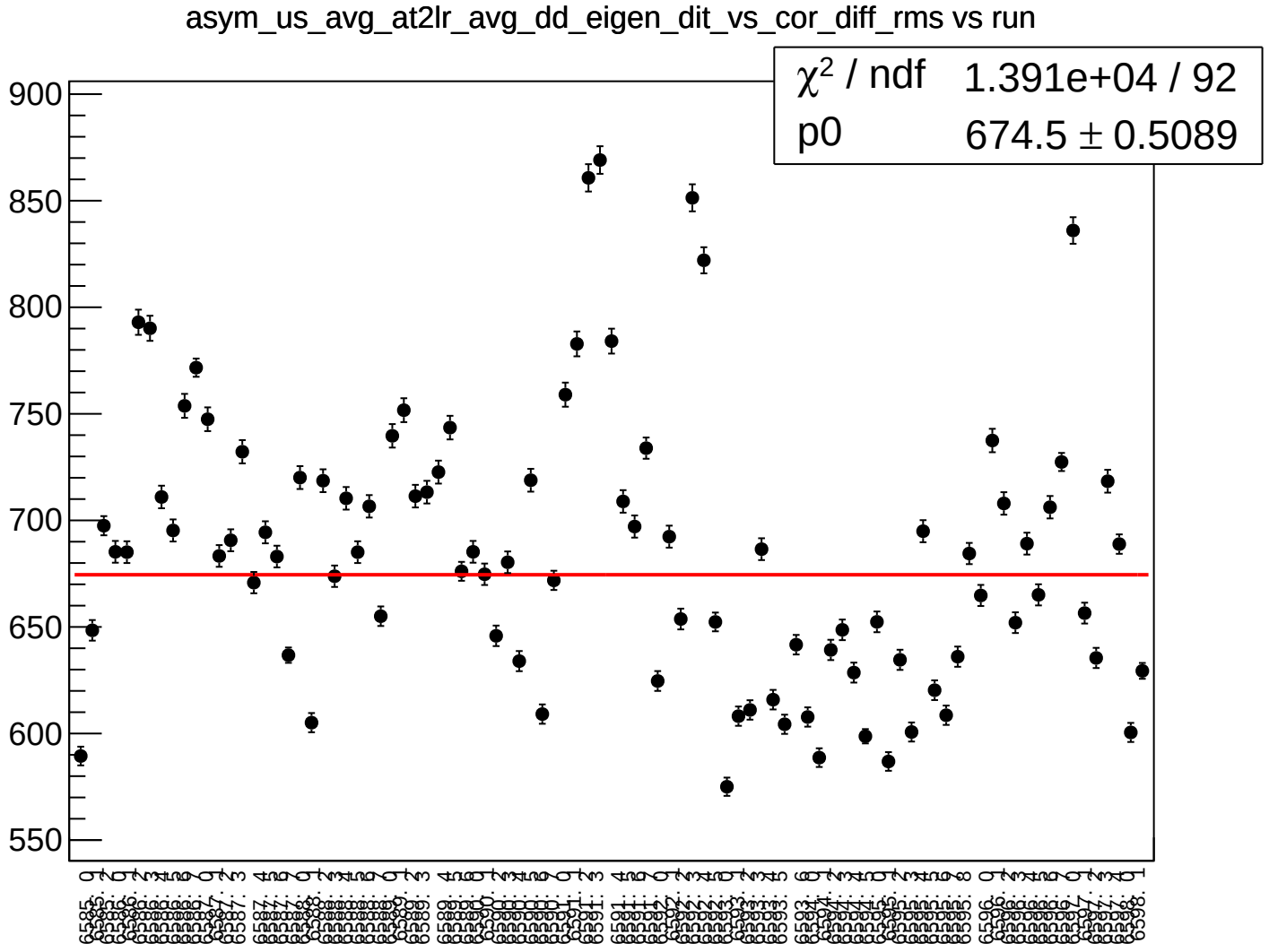

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 92
p0 674.5 ± 0.5089
900
850
800
750
700
650
600
550

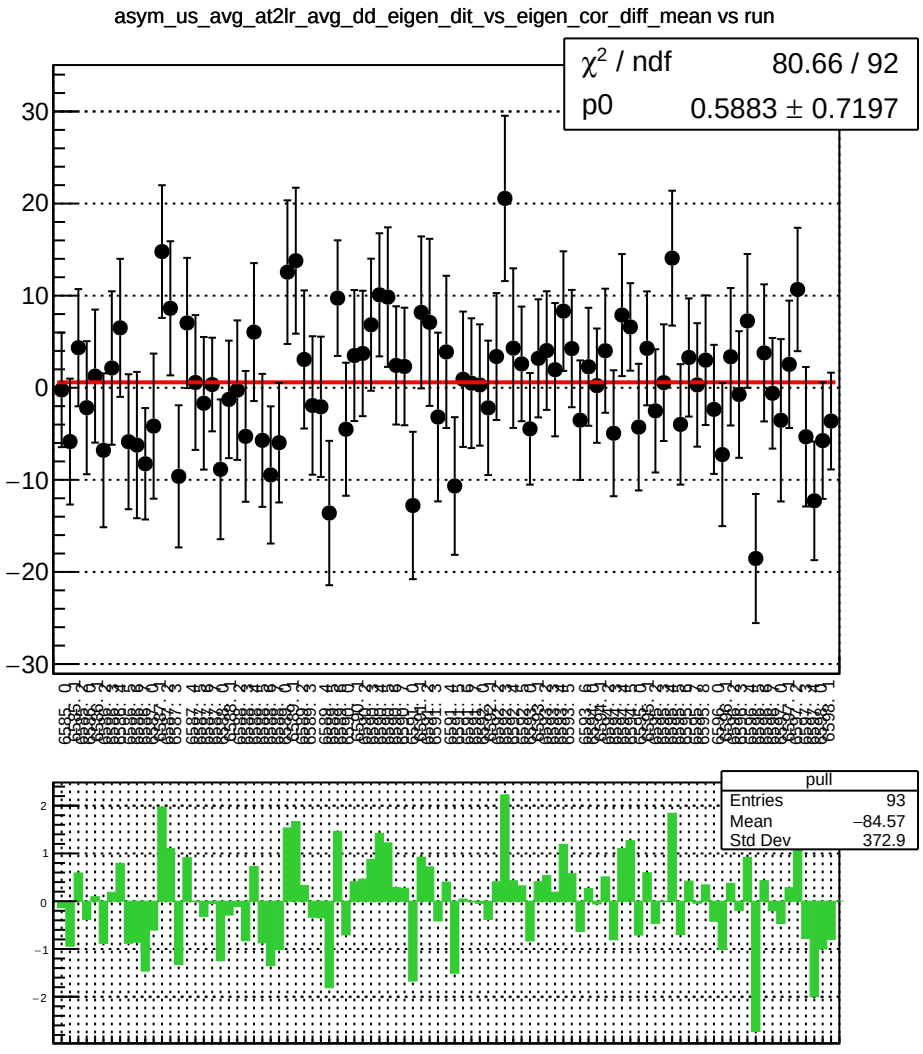

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.7 / 92
p0 −4.235e−06 ± 1.169e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 1352
Std Dev 0
2
1
0
−1
−2

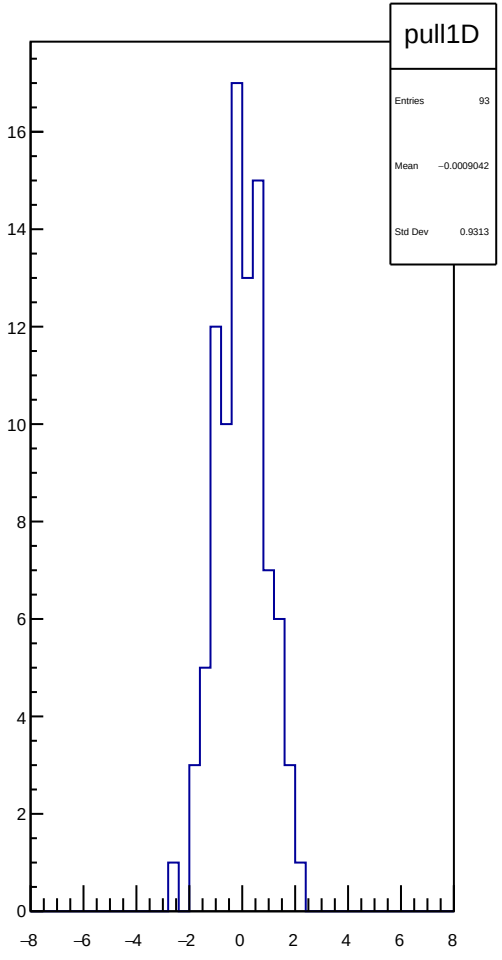

pull1D
Entries 93
Mean −0.001318
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

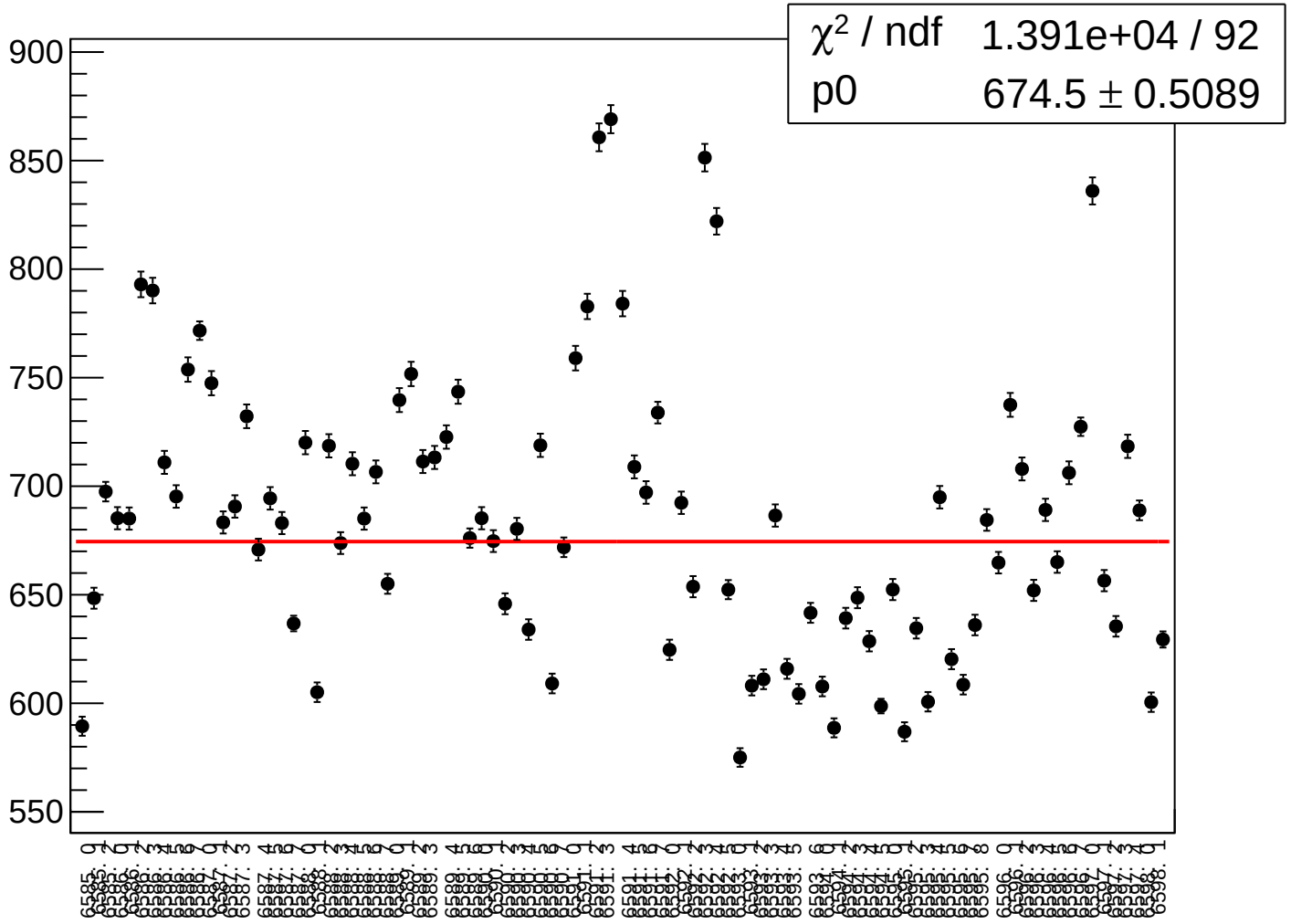

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.09e+04 / 92
p0 0.01096 ± 8.265e−06
0.015
0.014
0.013
0.012
0.011
0.01

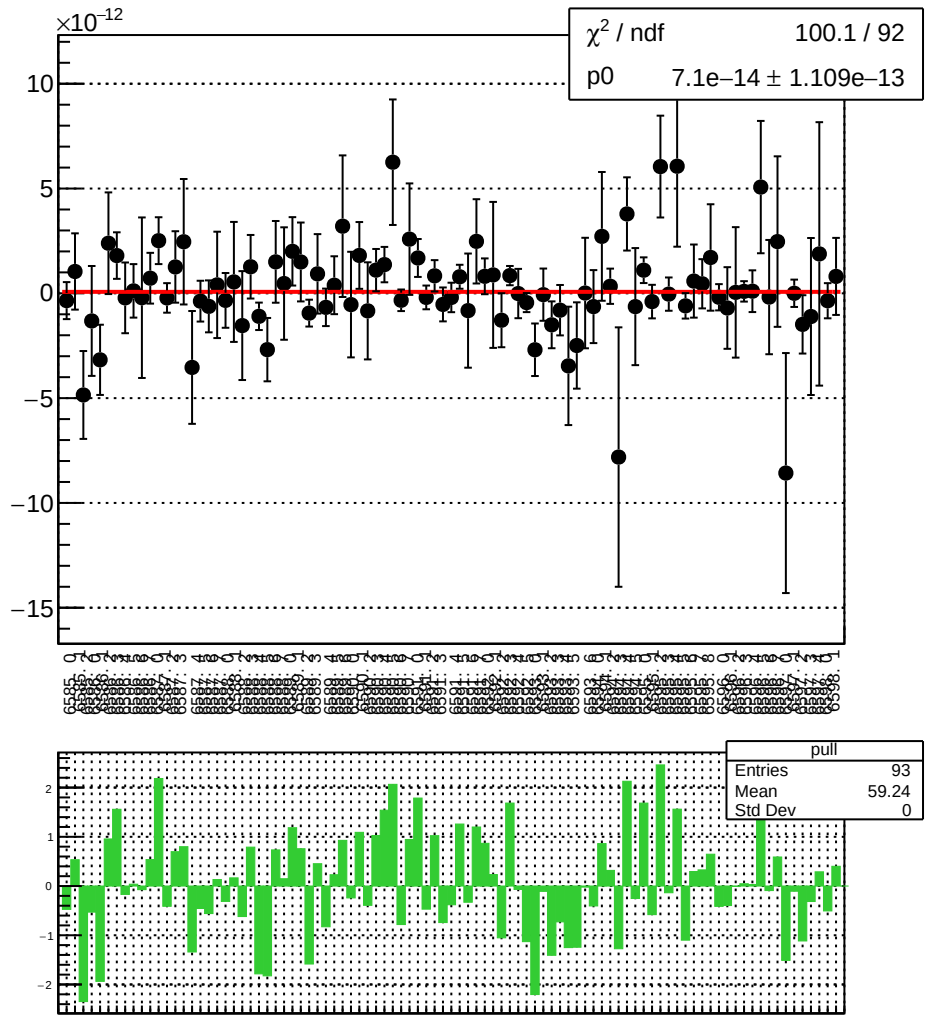

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.66 / 92
p0 0.5883 ± 0.7197
pull
Entries 93
Mean −84.57
Std Dev 372.9
pull1D
Entries 93
Mean −0.0009042
Std Dev 0.9313

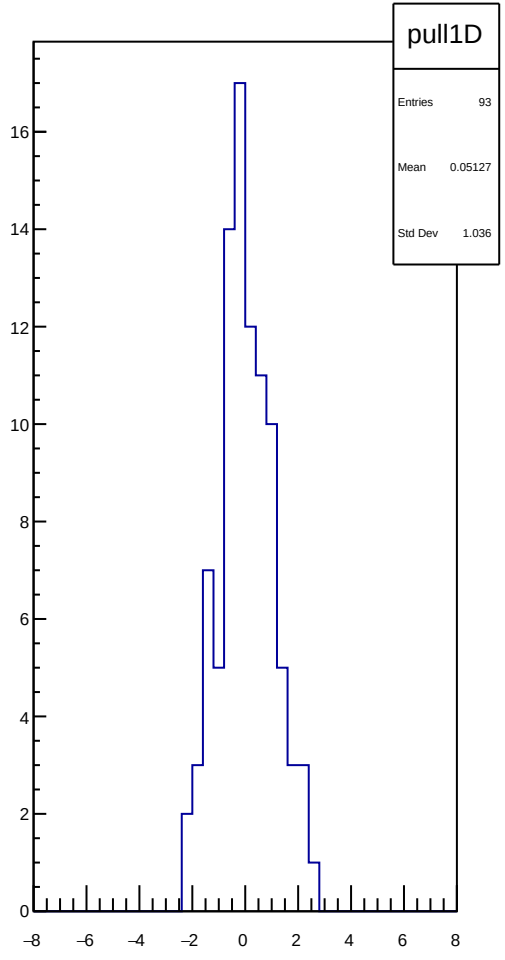

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 92
p0 674.5 ± 0.5089
900
850
800
750
700
650
600
550

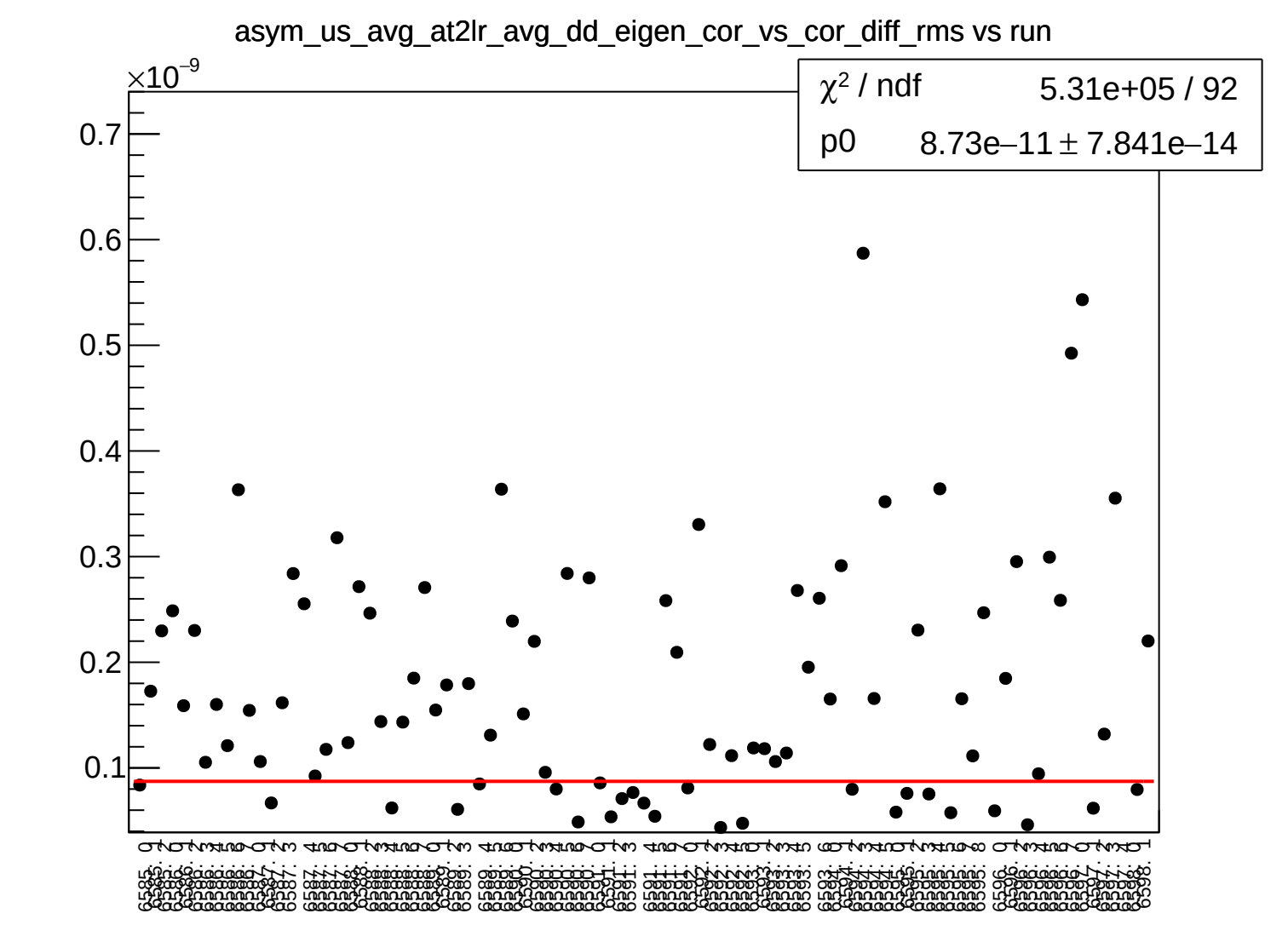

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.66 / 92
p0 0.5883 ± 0.7197
pull
Entries 93
Mean −84.57
Std Dev 372.9

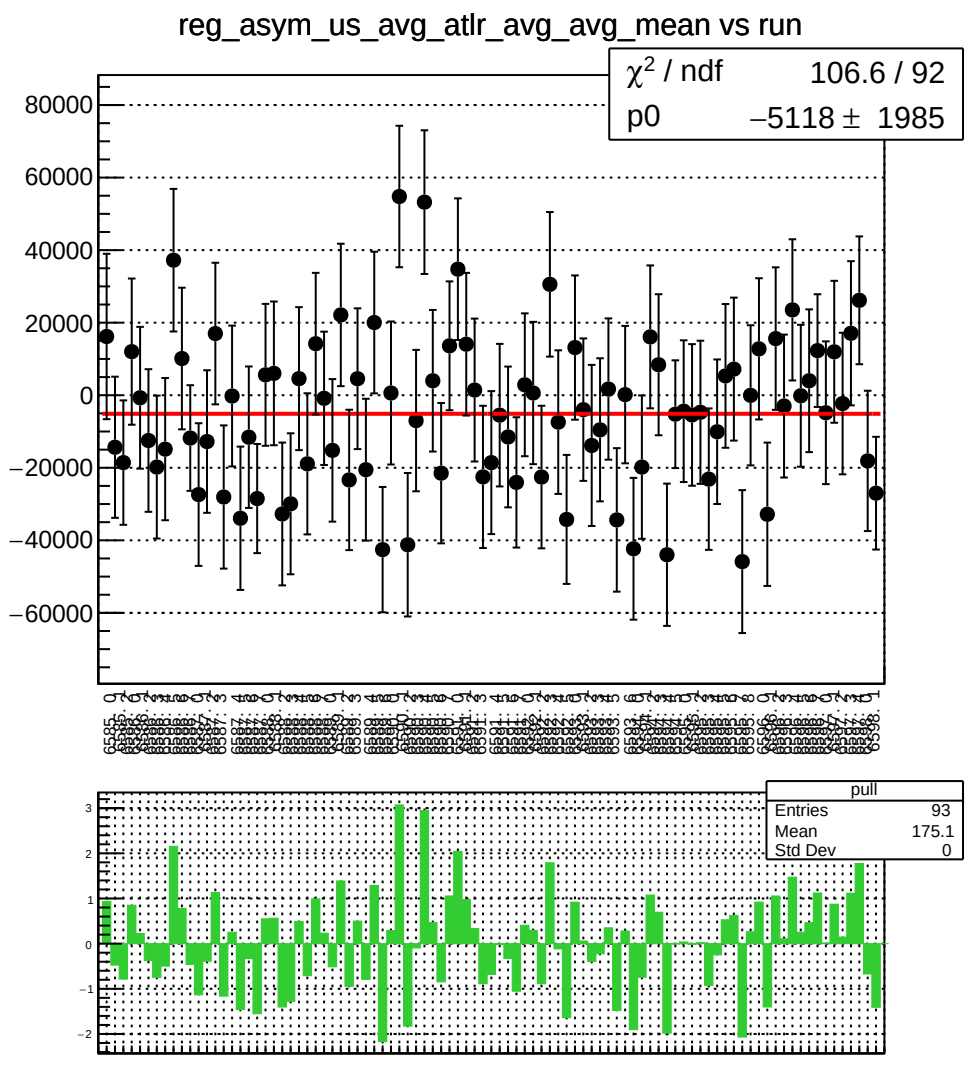

pull1D
Entries 93
Mean −0.0009042
Std Dev 0.9313

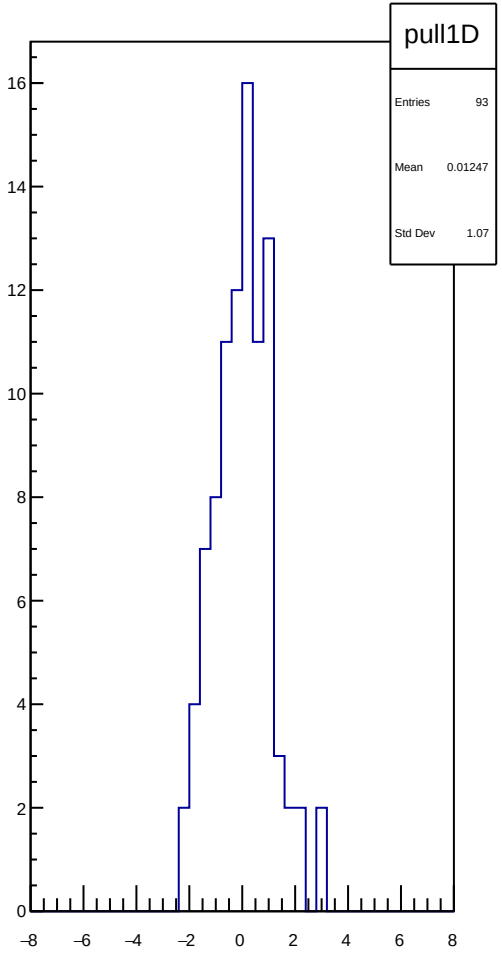

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.391e+04 / 92
p0 674.5 ± 0.5089
900
850
800
750
700
650
600
550

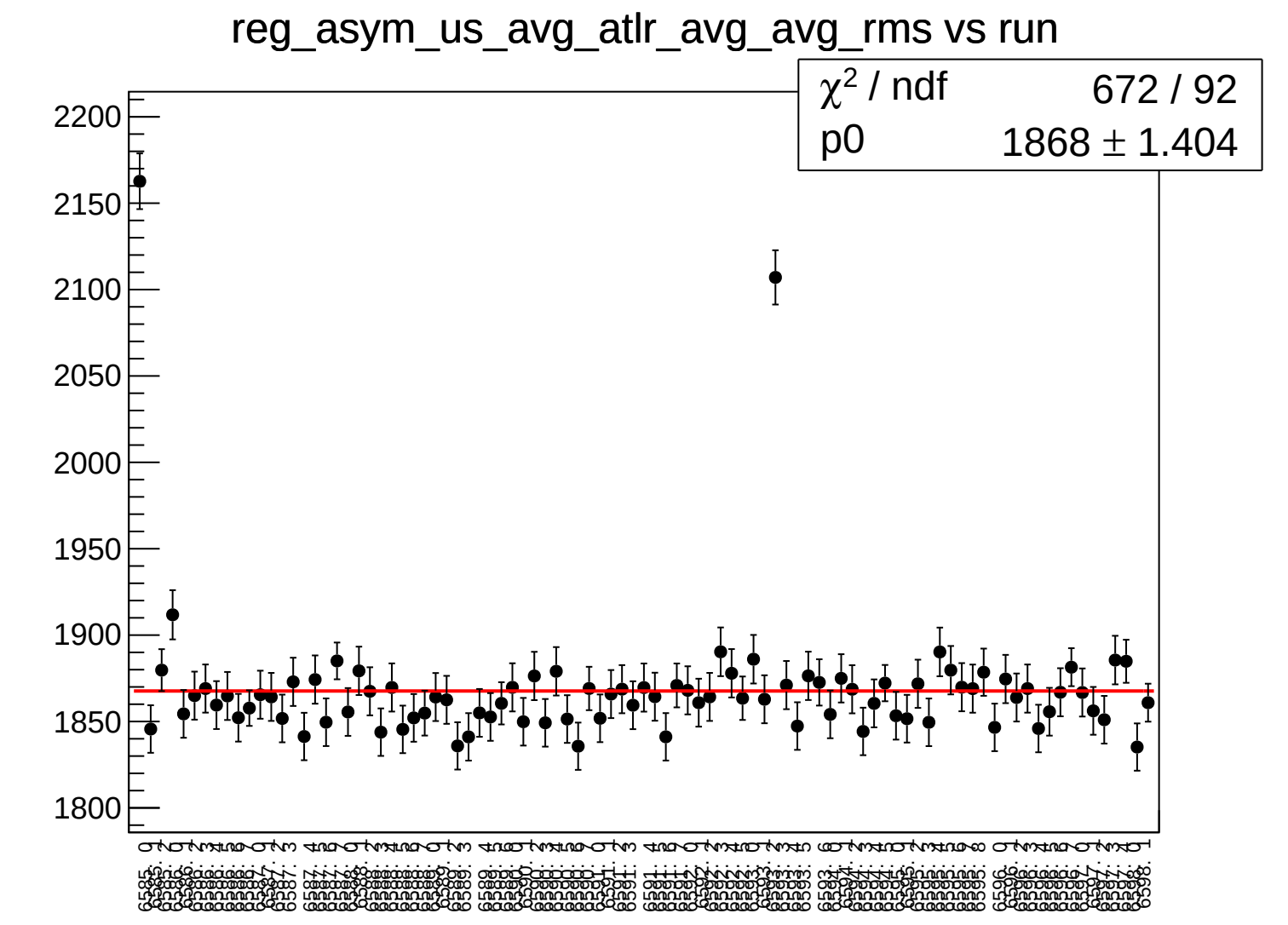

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 92
p0 7.1e−14 ± 1.109e−13
pull
Entries 93
Mean 59.24
Std Dev 0

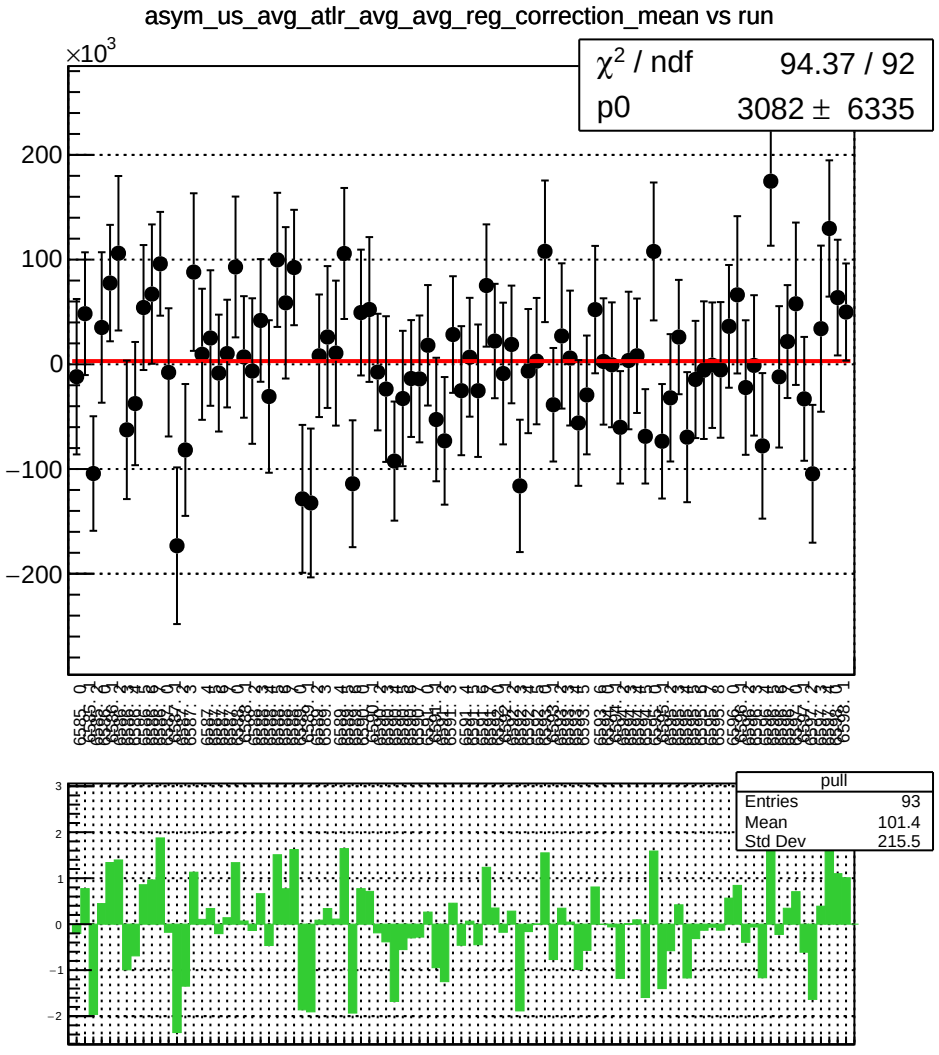

pull1D
Entries 93
Mean 0.05127
Std Dev 1.036

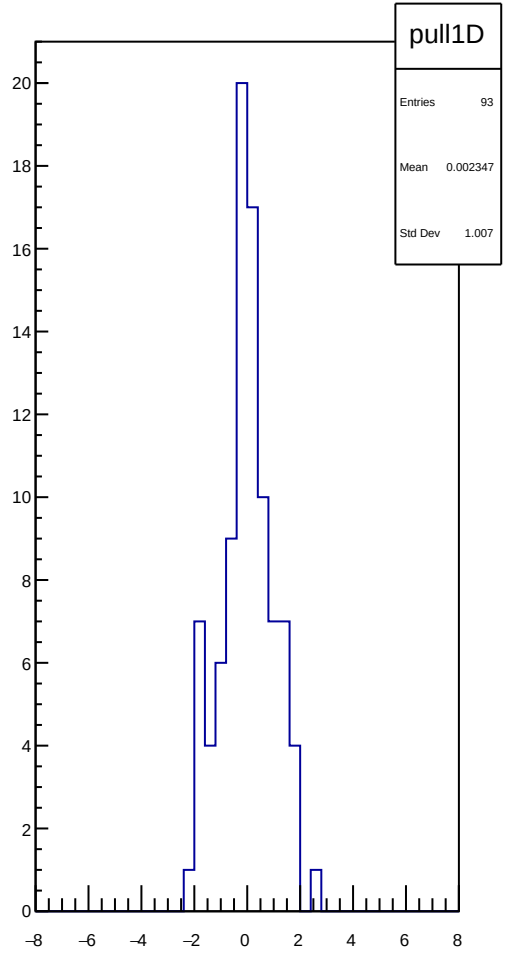

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.31e+05 / 92
p0 8.73e−11 ± 7.841e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

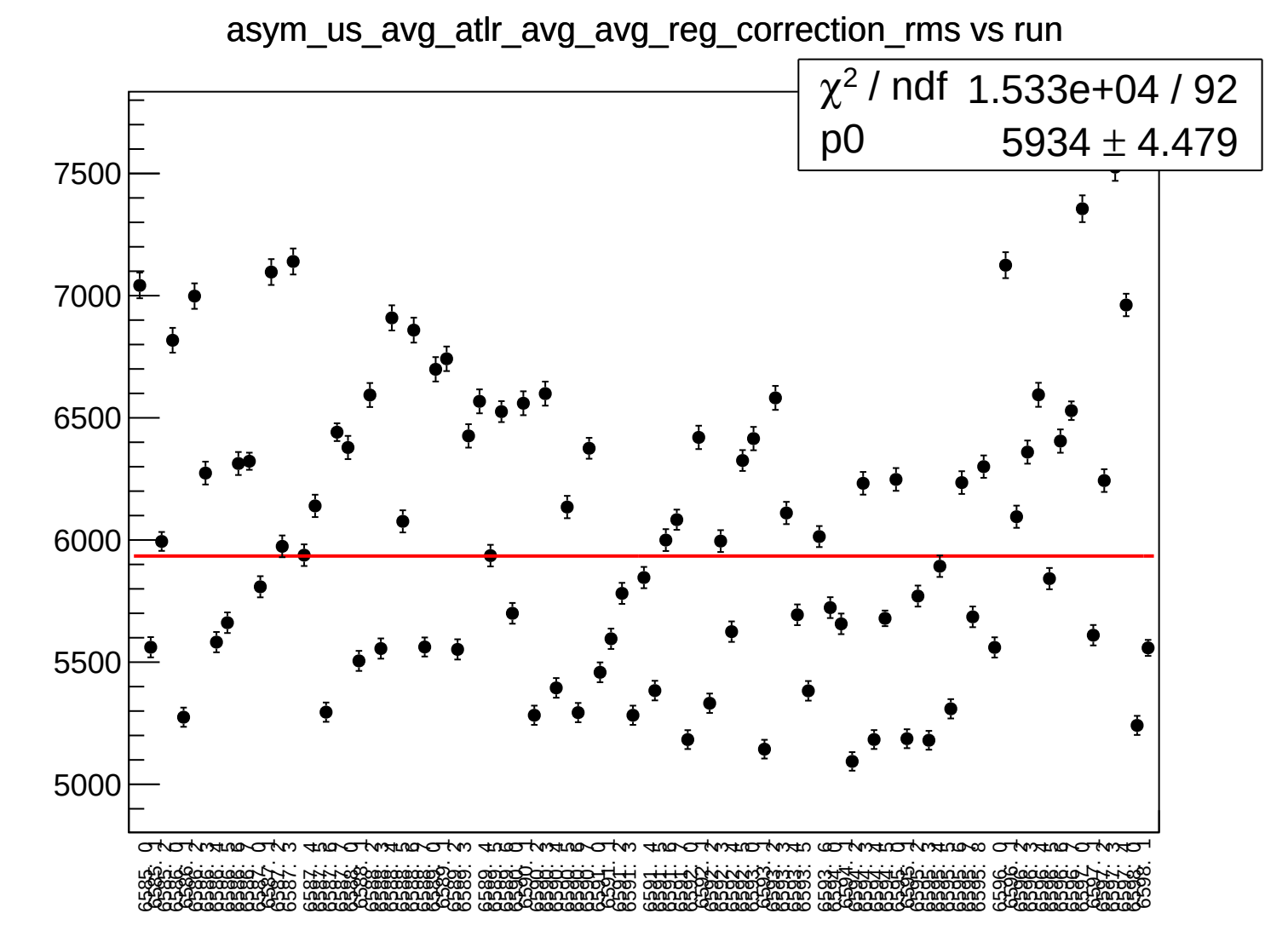

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 106.6 / 92
p0 −5118 ± 1985
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 175.1
Std Dev 0
3
2
1
0
−1
−2

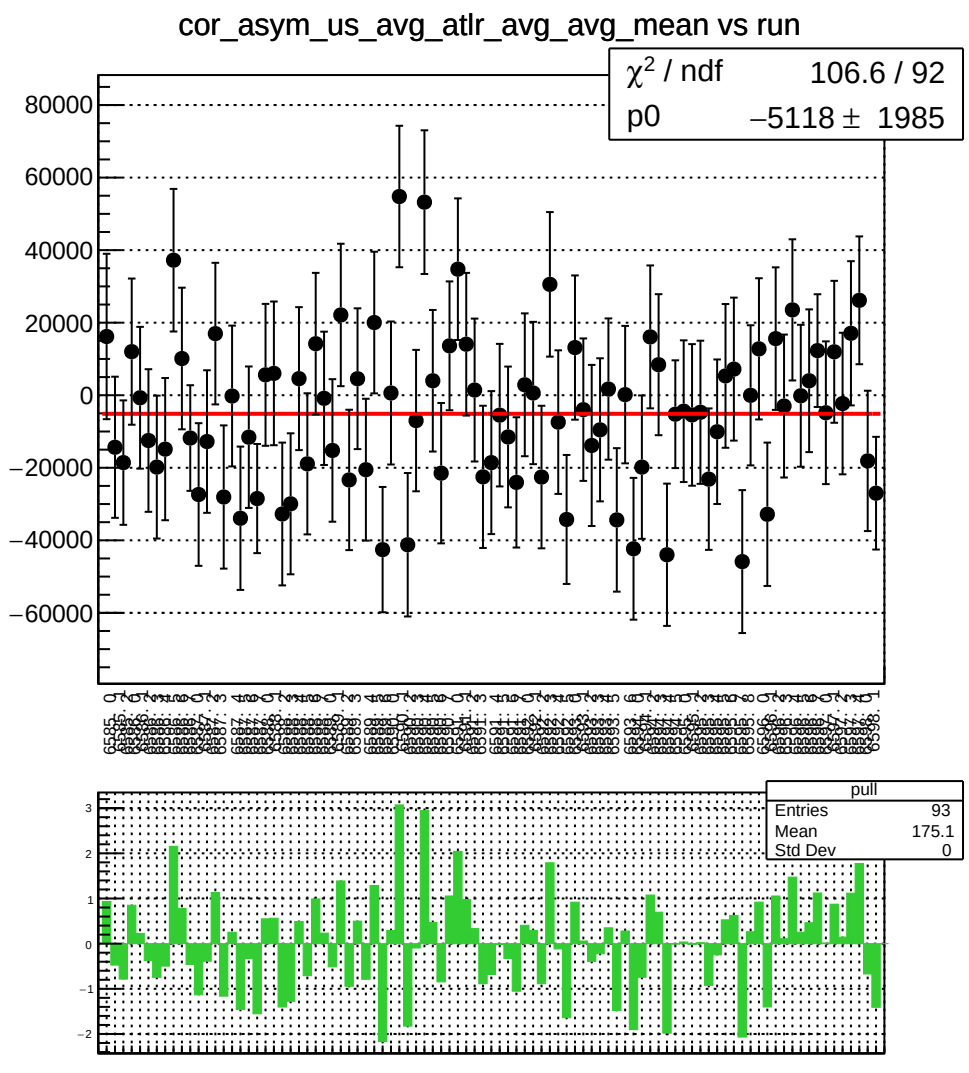

pull1D
Entries 93
Mean 0.01247
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

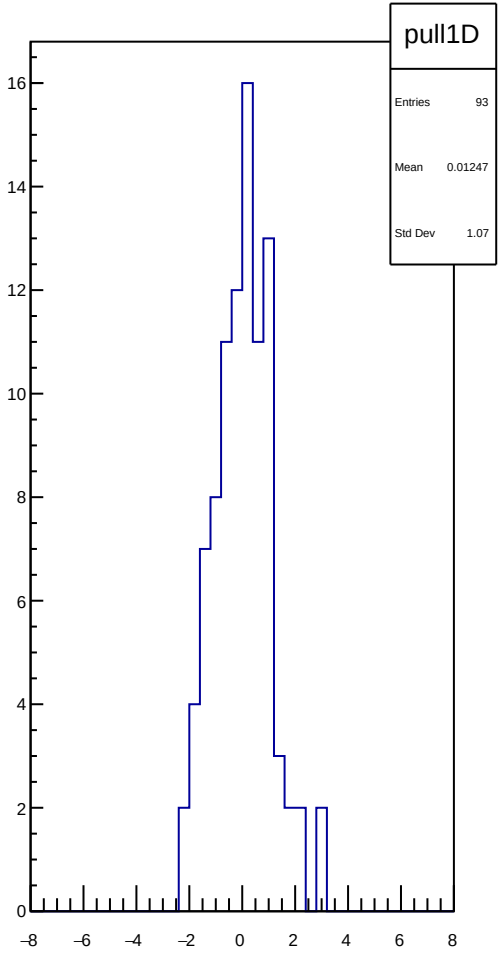

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 672 / 92
p0 1868 ± 1.404
2200
2150
2100
2050
2000
1950
1900
1850
1800

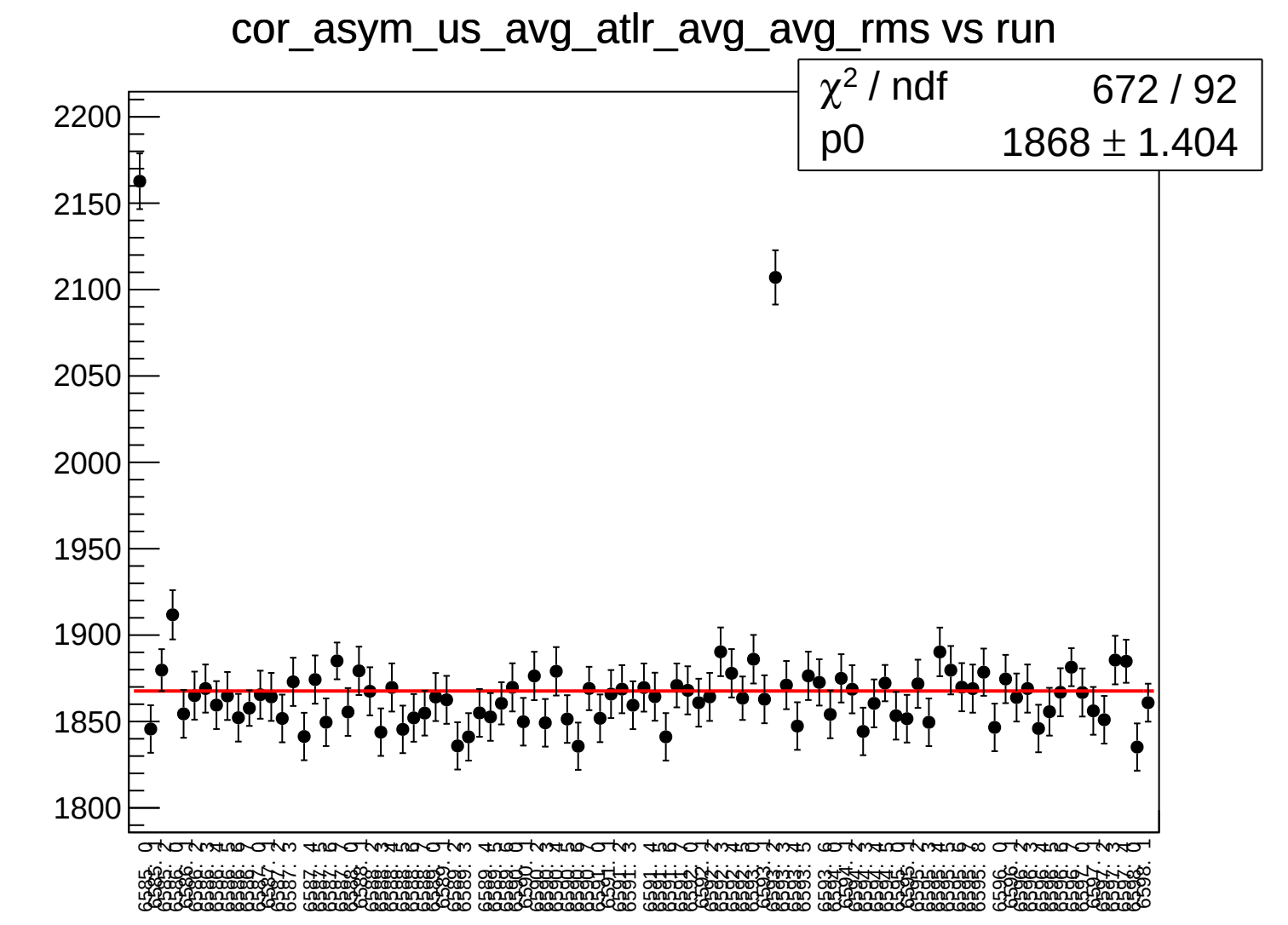

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 94.37 / 92
p0 3082 ± 6335
200
100
0
−100
−200
pull
Entries 93
Mean 101.4
Std Dev 215.5
3
2
1
0
−1
−2

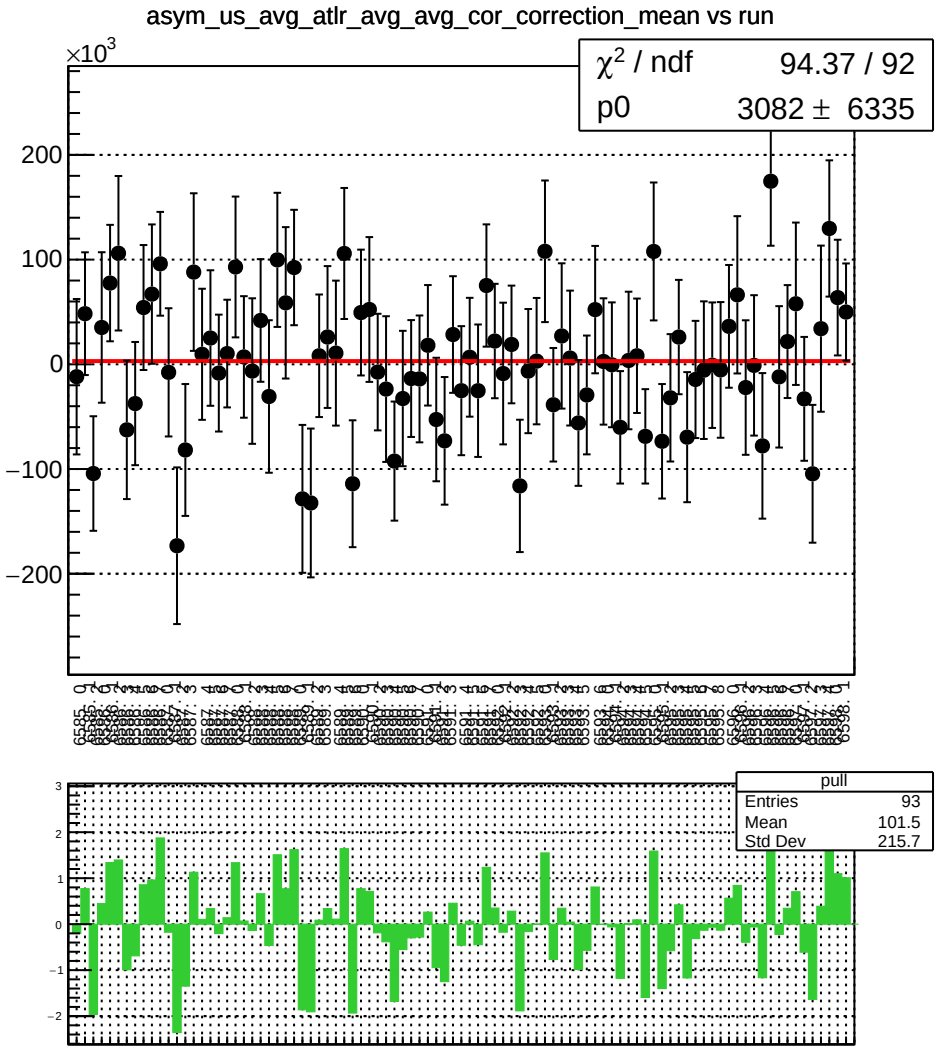

pull1D
Entries 93
Mean 0.002347
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

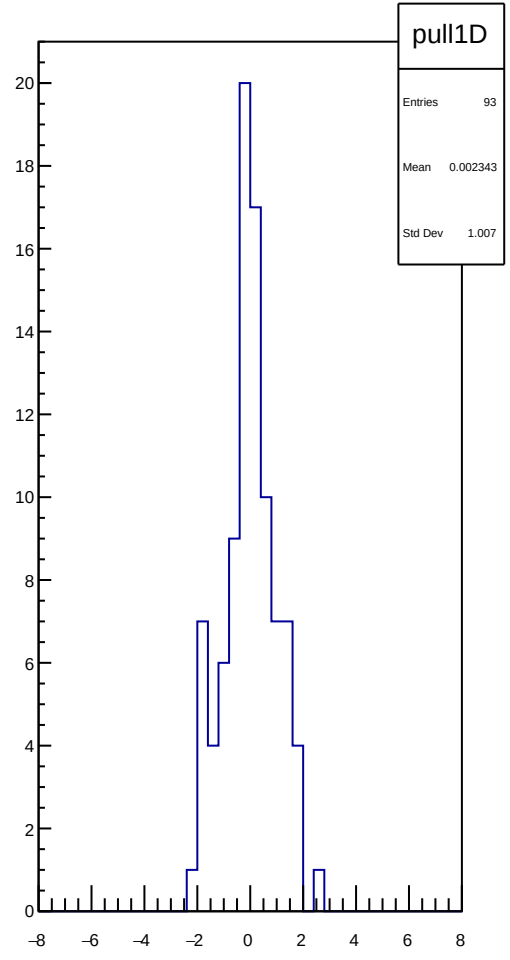

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.533e+04 / 92
p0 5934 ± 4.479
7500
7000
6500
6000
5500
5000

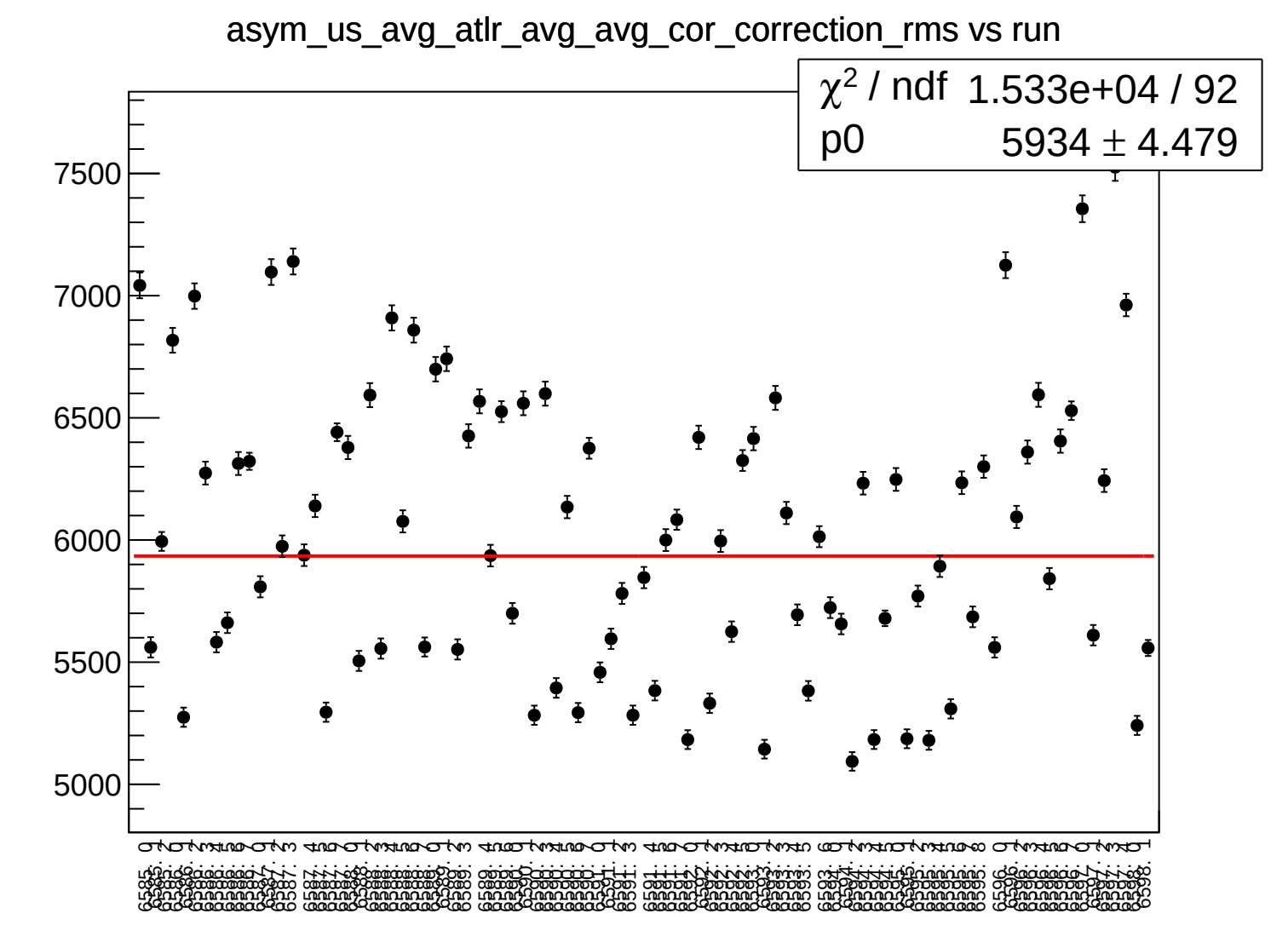

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 106.6 / 92
p0 −5118 ± 1985
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 175.1
Std Dev 0
3
2
1
0
−1
−2

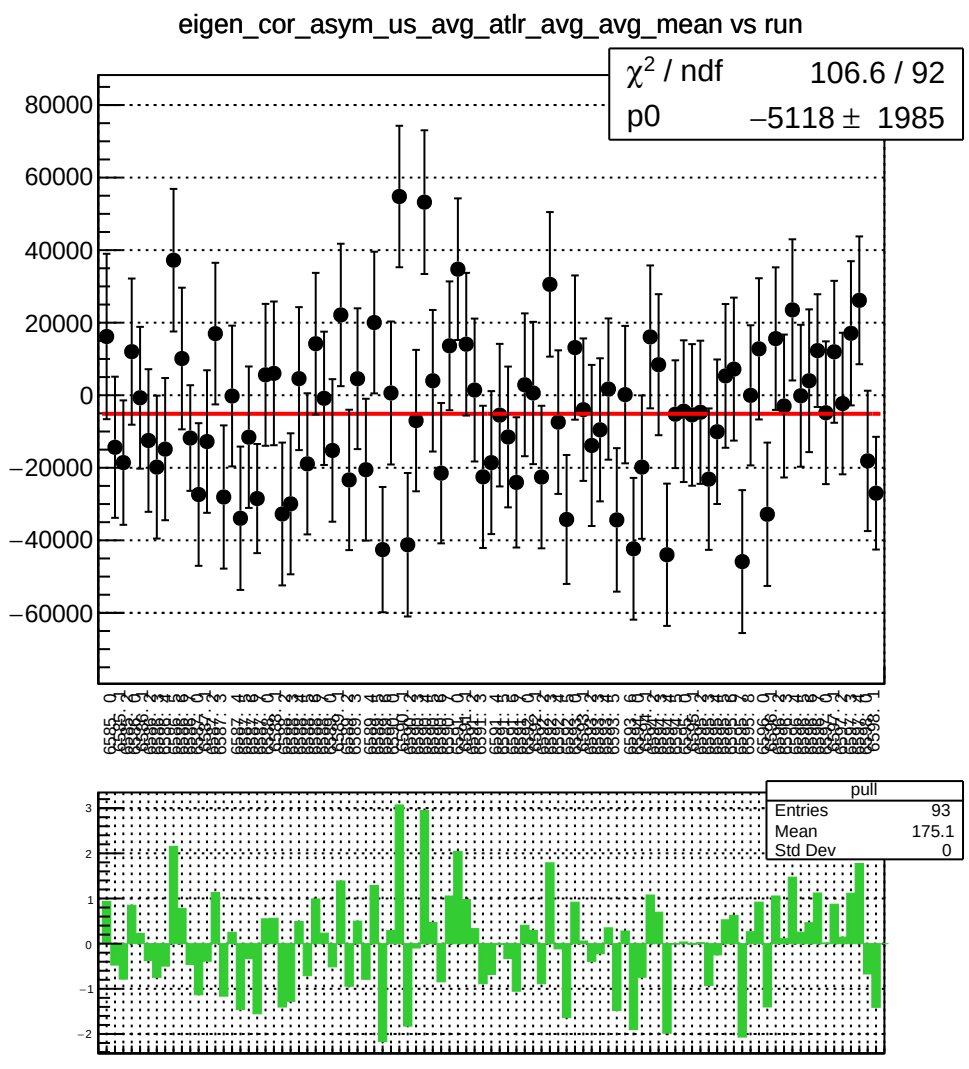

pull1D
Entries 93
Mean 0.01247
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

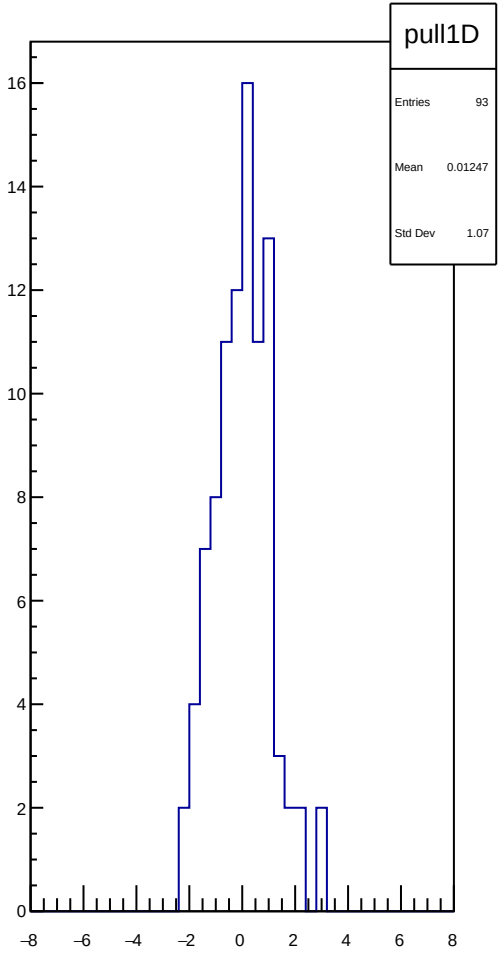

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 672 / 92
p0 1868 ± 1.404
2200
2150
2100
2050
2000
1950
1900
1850
1800

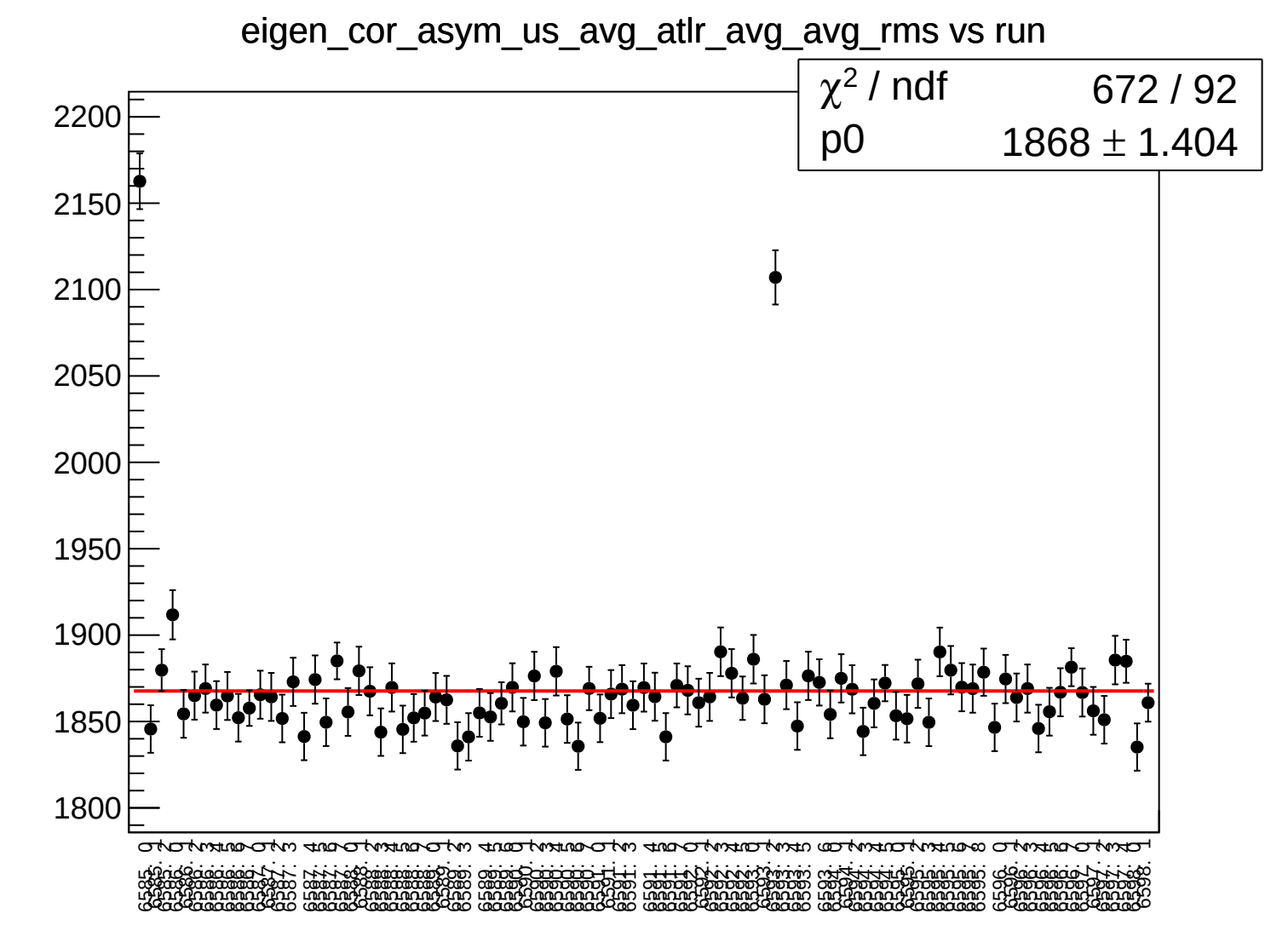

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.37 / 92
p0 3082 ± 6335
200
100
0
−100
−200
pull
Entries 93
Mean 101.5
Std Dev 215.7
3
2
1
0
−1
−2

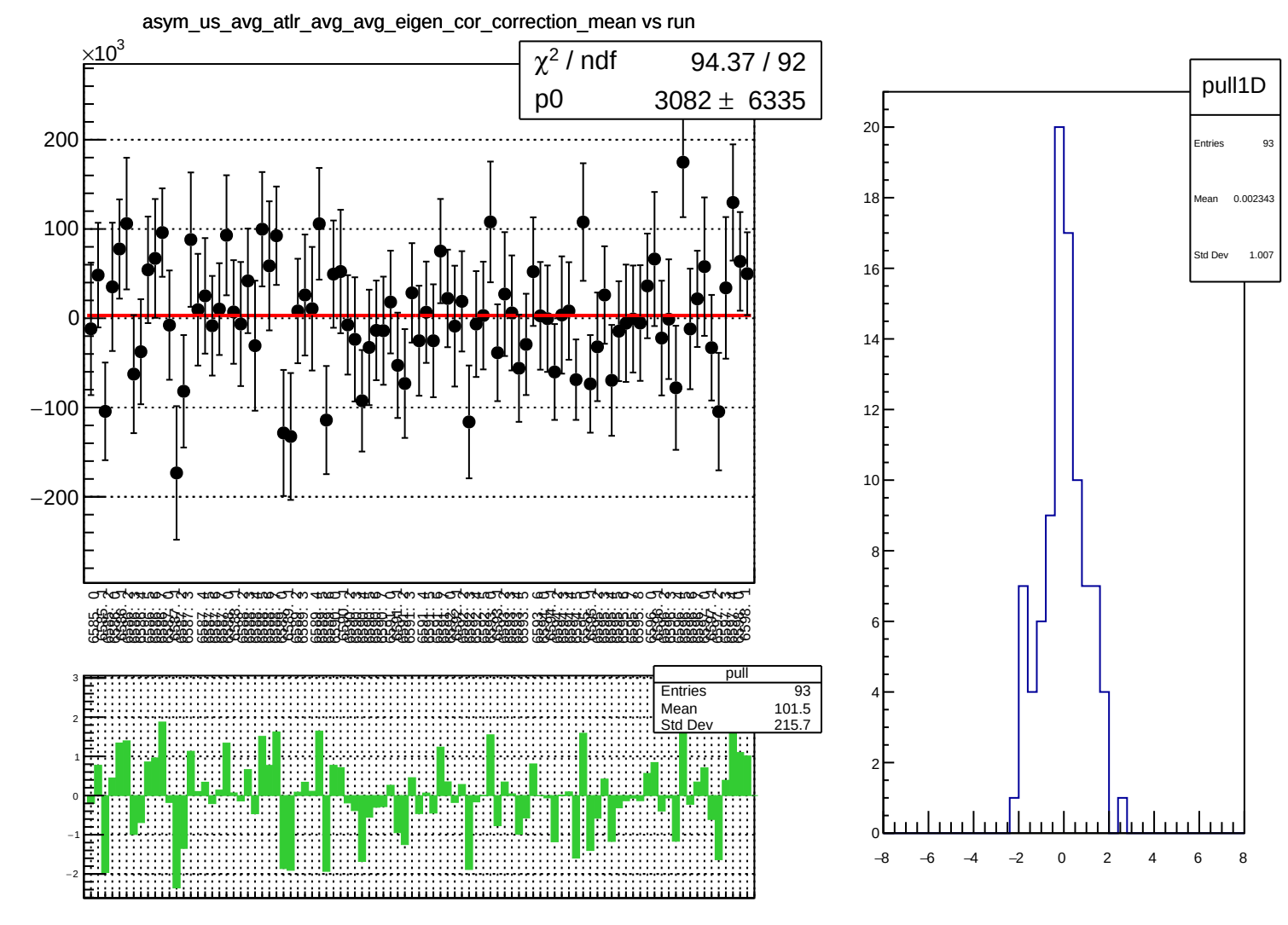

pull1D
Entries 93
Mean 0.002343
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

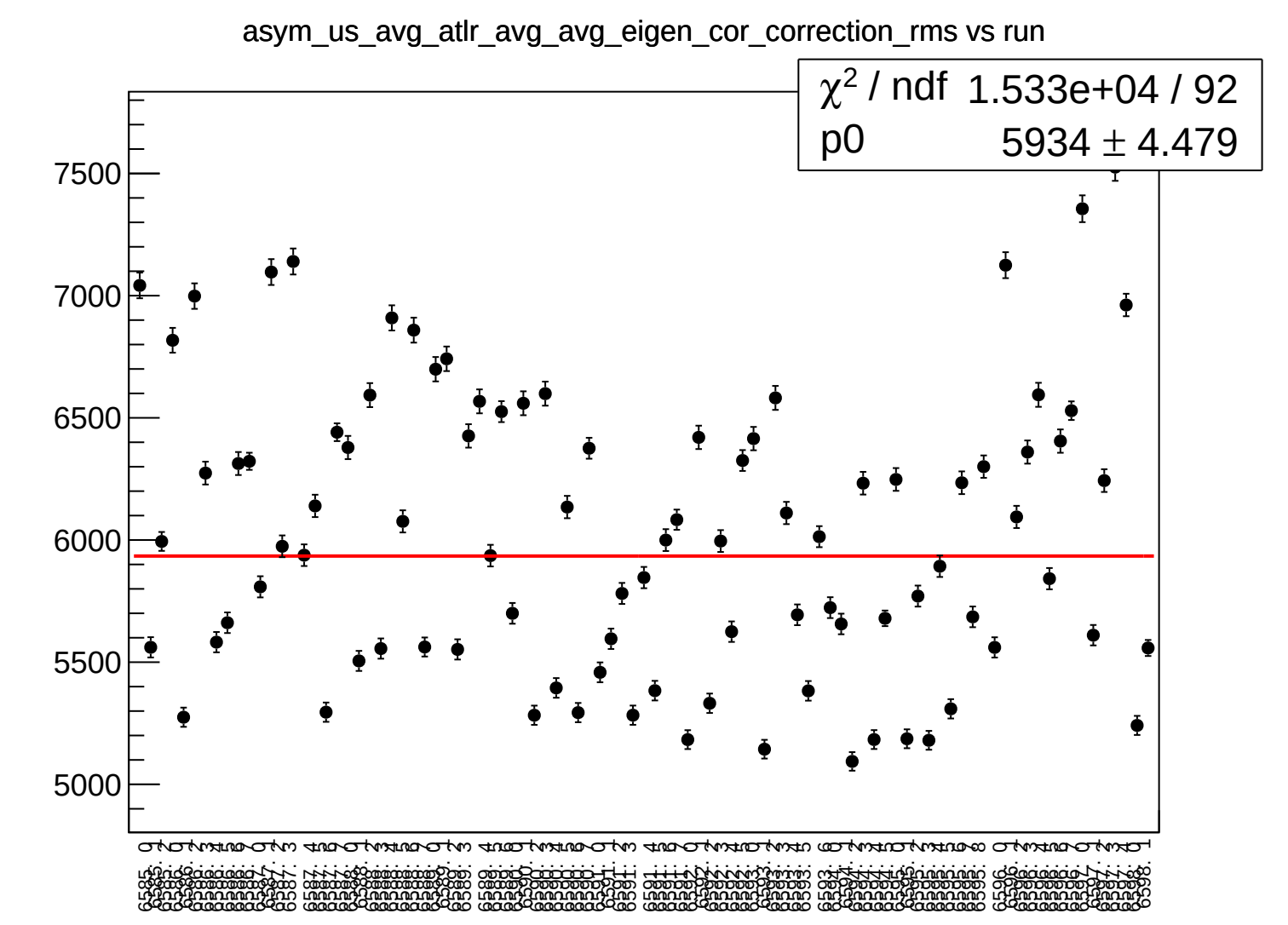

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.533e+04 / 92
p0 5934 ± 4.479
7500
7000
6500
6000
5500
5000

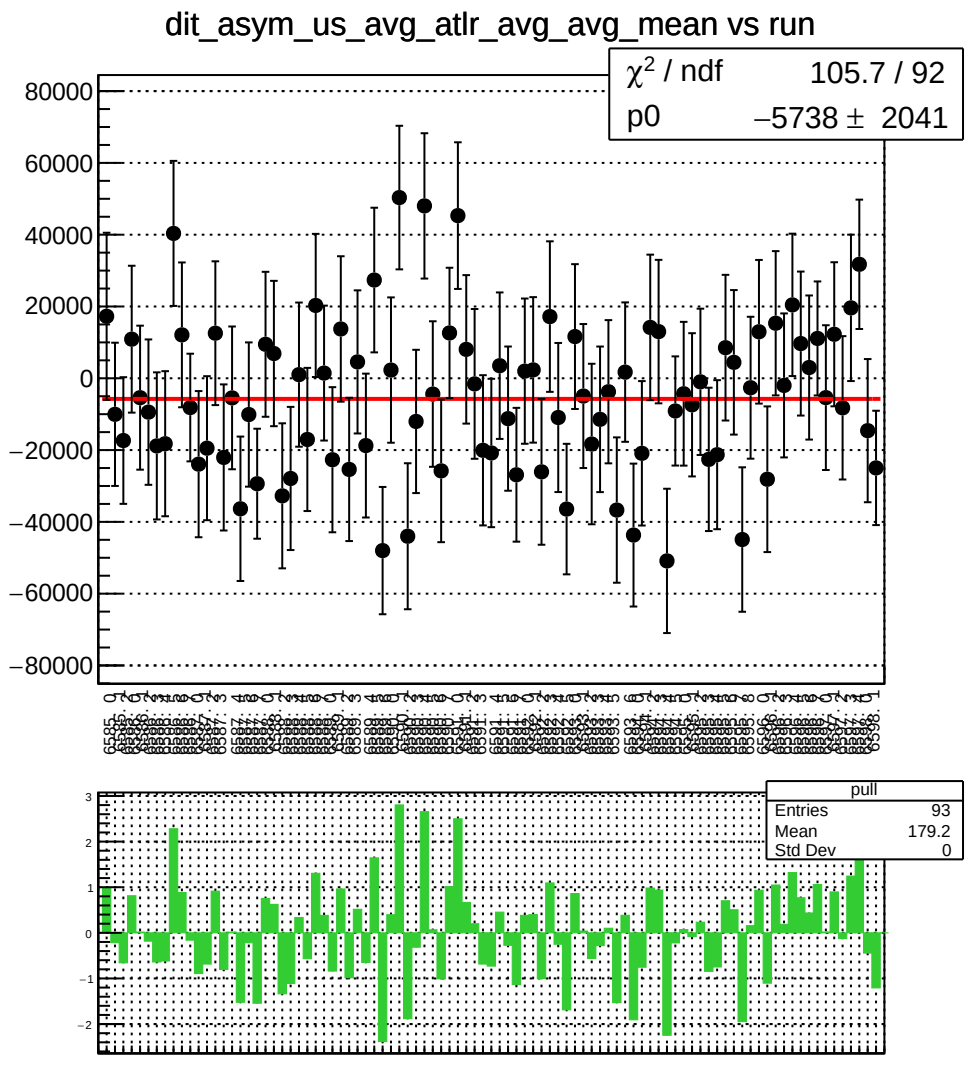

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 106.6 / 92
p0 −5118 ± 1985
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 175.1
Std Dev 0
3
2
1
0
−1
−2

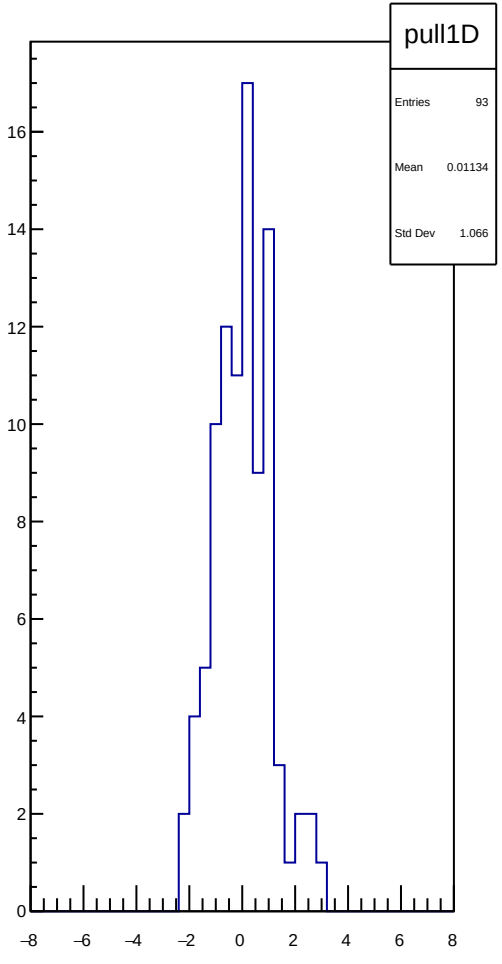

pull1D
Entries 93
Mean 0.01247
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

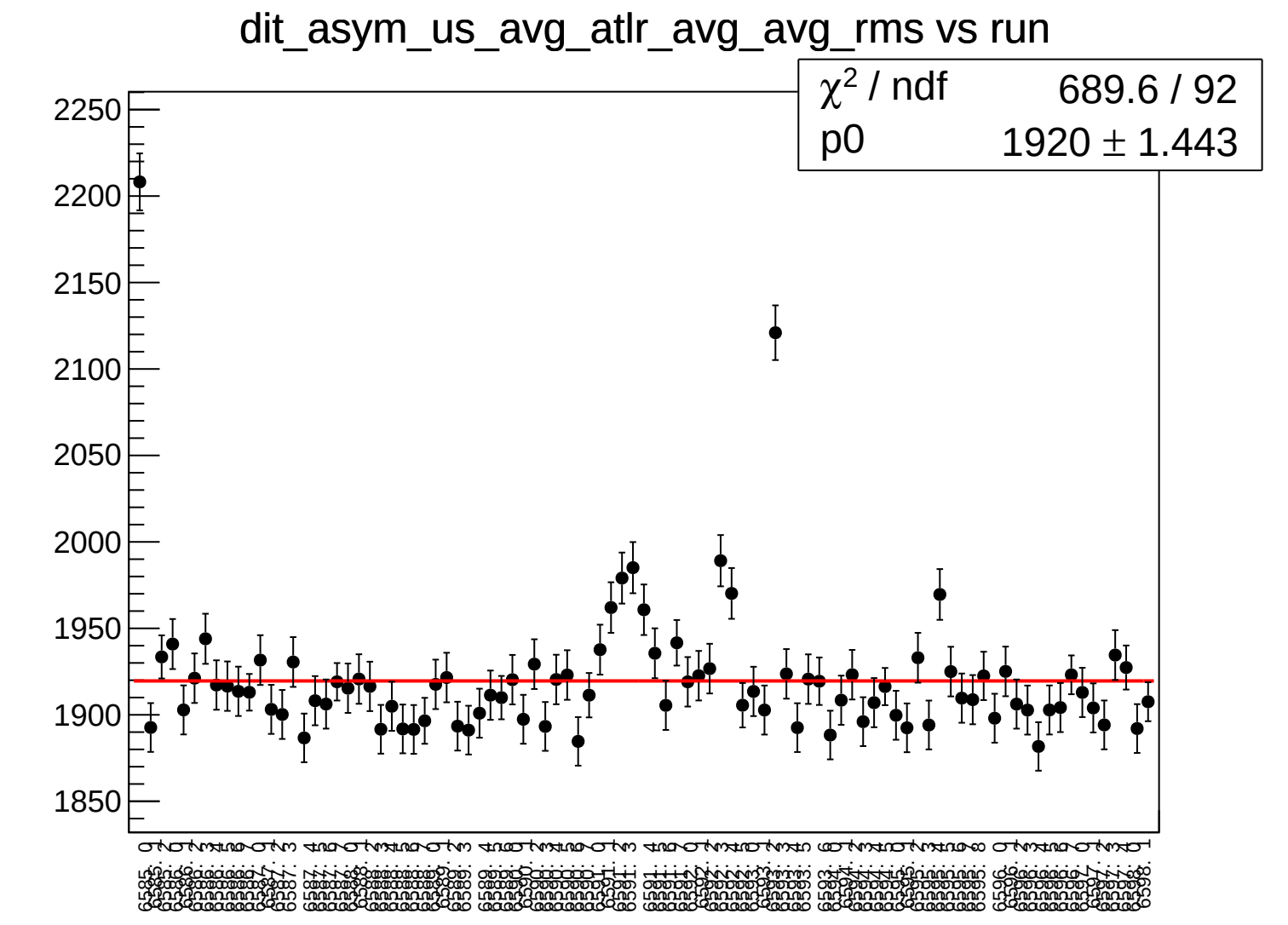

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 672 / 92
p0 1868 ± 1.404
2200
2150
2100
2050
2000
1950
1900
1850
1800

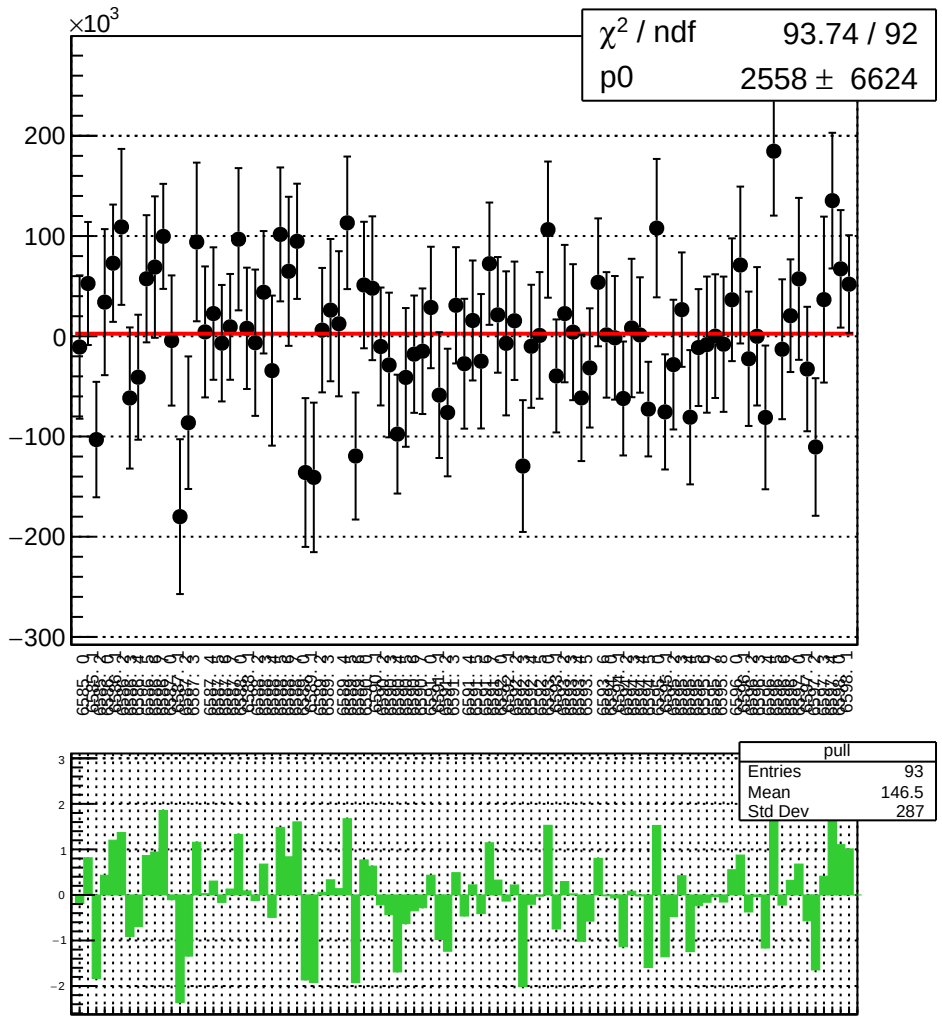

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.37 / 92
p0 3082 ± 6335
200
100
0
−100
−200
pull
Entries 93
Mean 101.5
Std Dev 215.7
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002343
Std Dev 1.007
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

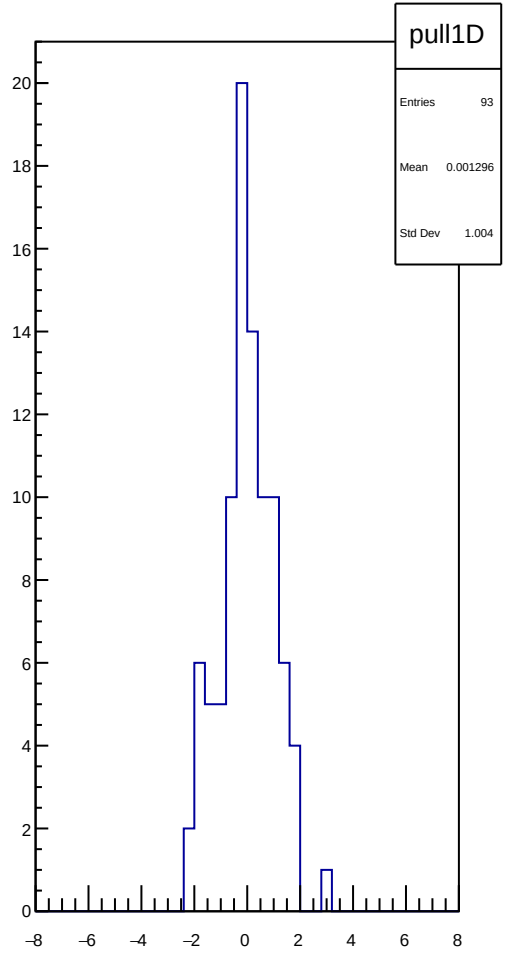

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.533e+04 / 92
p0 5934 ± 4.479
7500
7000
6500
6000
5500
5000


dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 105.7 / 92
p0 −5738 ± 2041
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 179.2
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.01134
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 689.6 / 92
p0 1920 ± 1.443
2250
2200
2150
2100
2050
2000
1950
1900
1850


asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 93.74 / 92
p0 2558 ± 6624
200
100
0
−100
−200
−300
pull
Entries 93
Mean 146.5
Std Dev 287
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.001296
Std Dev 1.004
20
18
16
14
12
10
8
6
4
2
0
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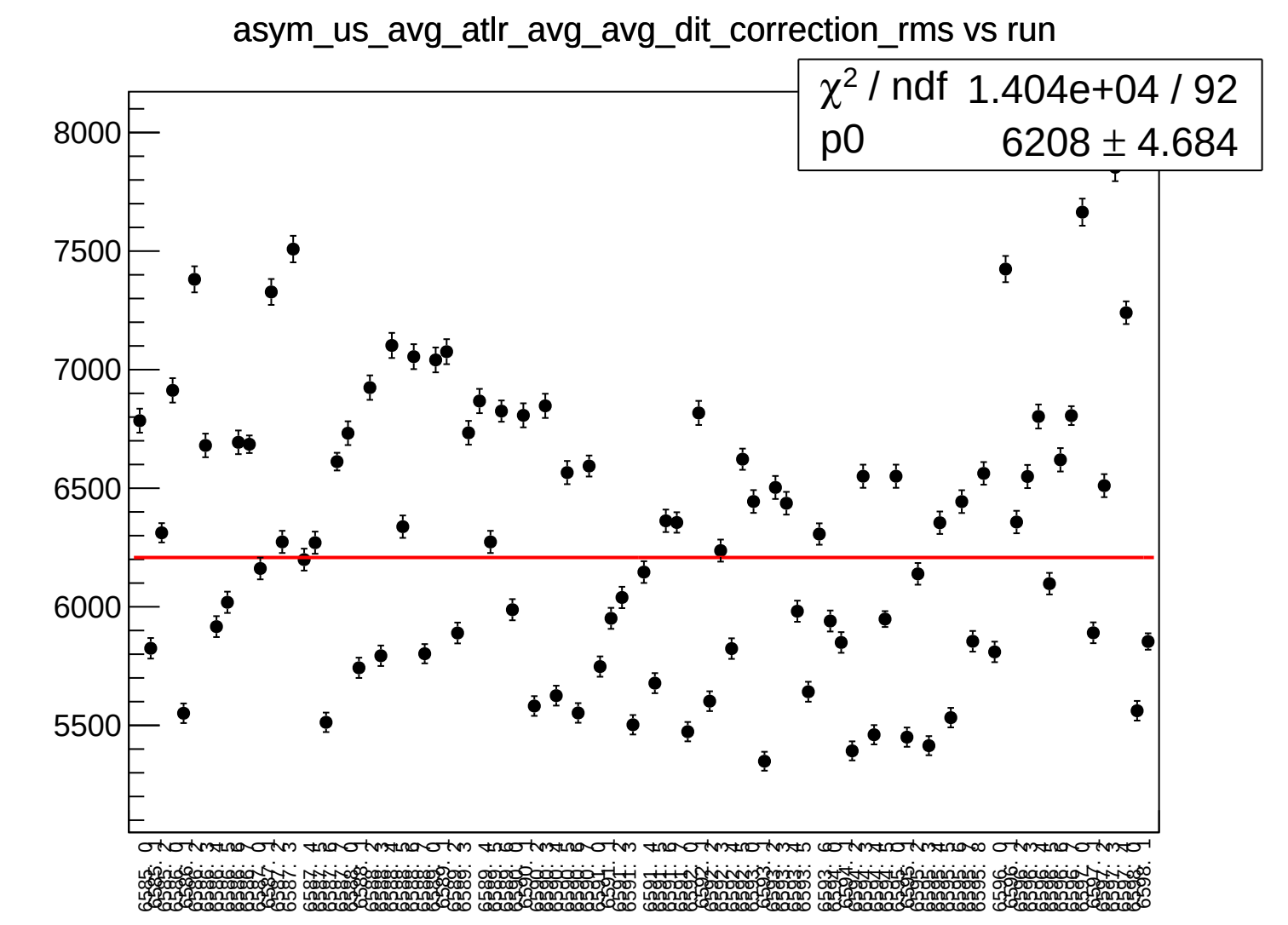
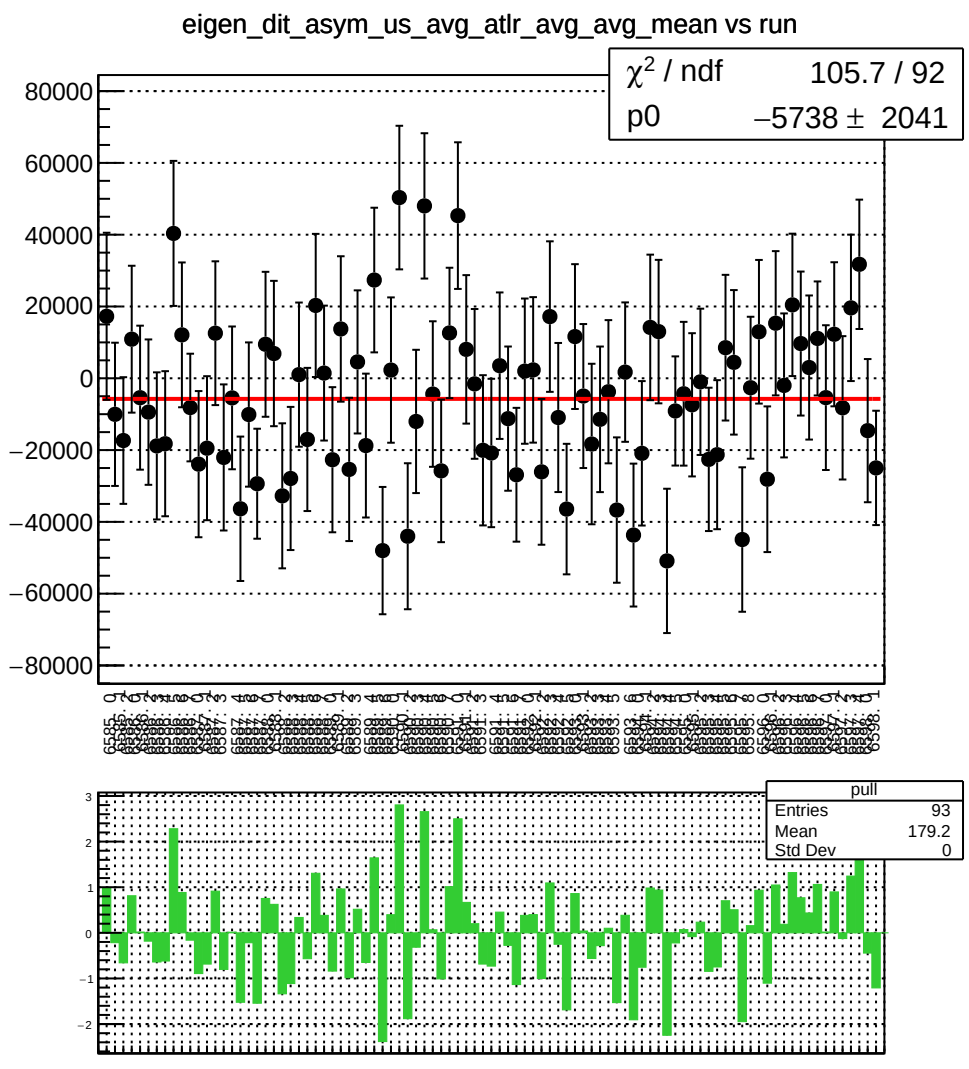
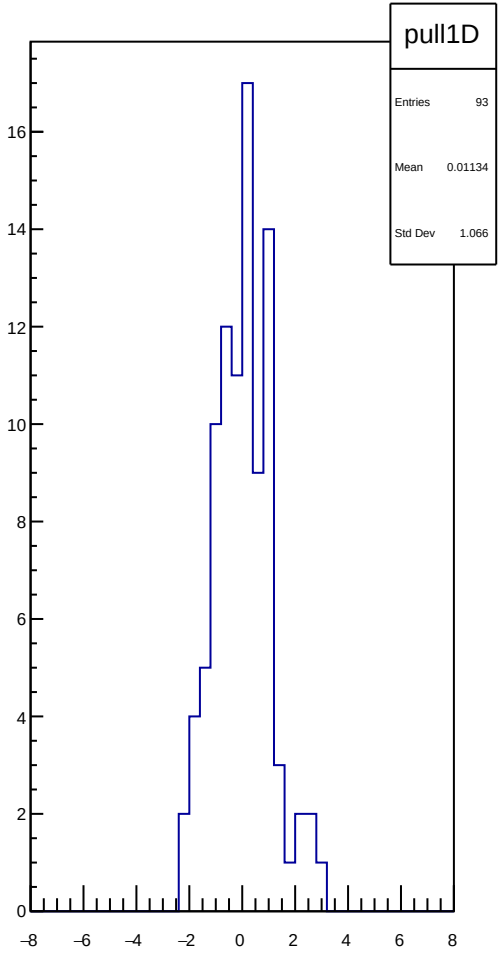
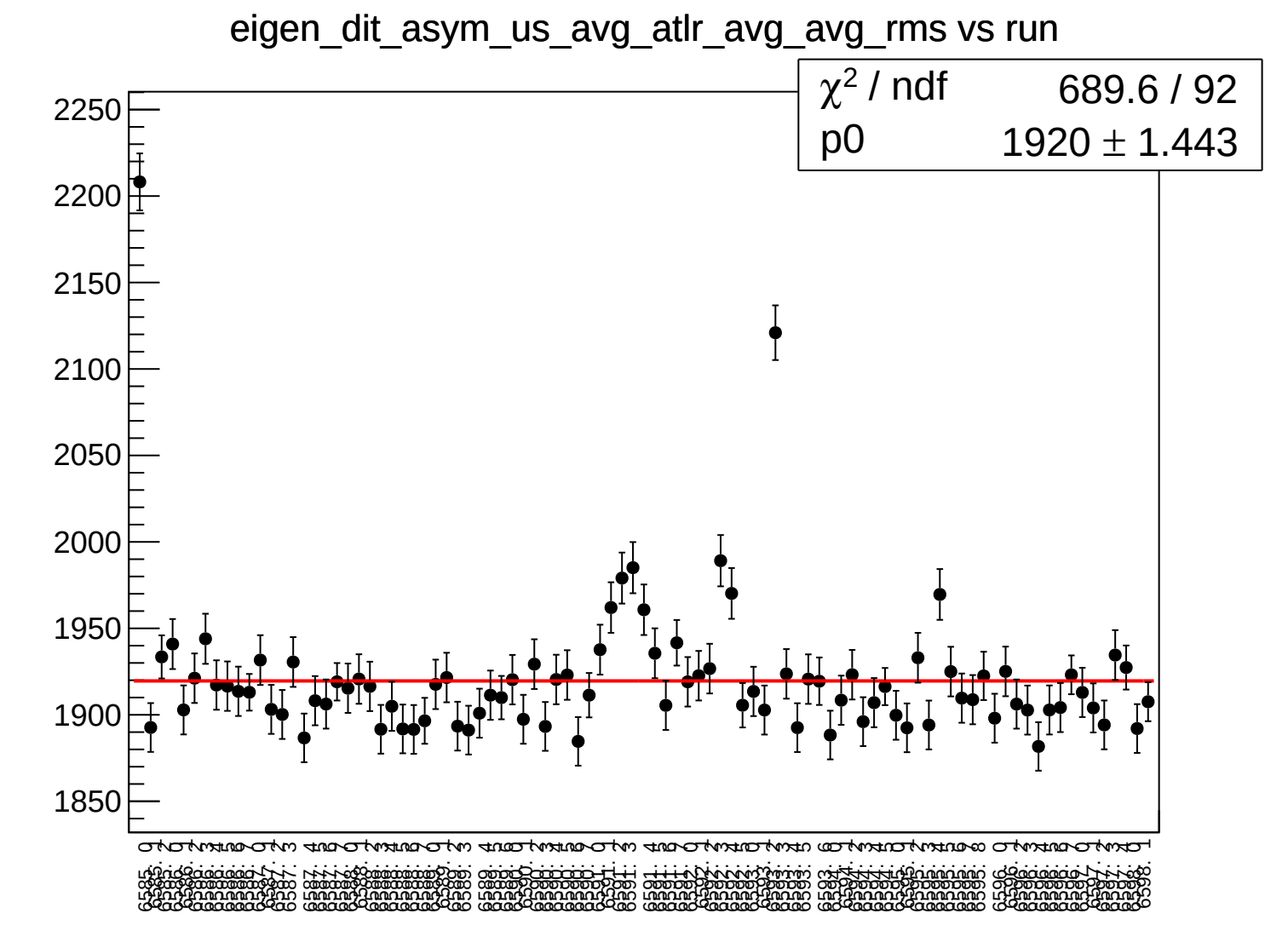
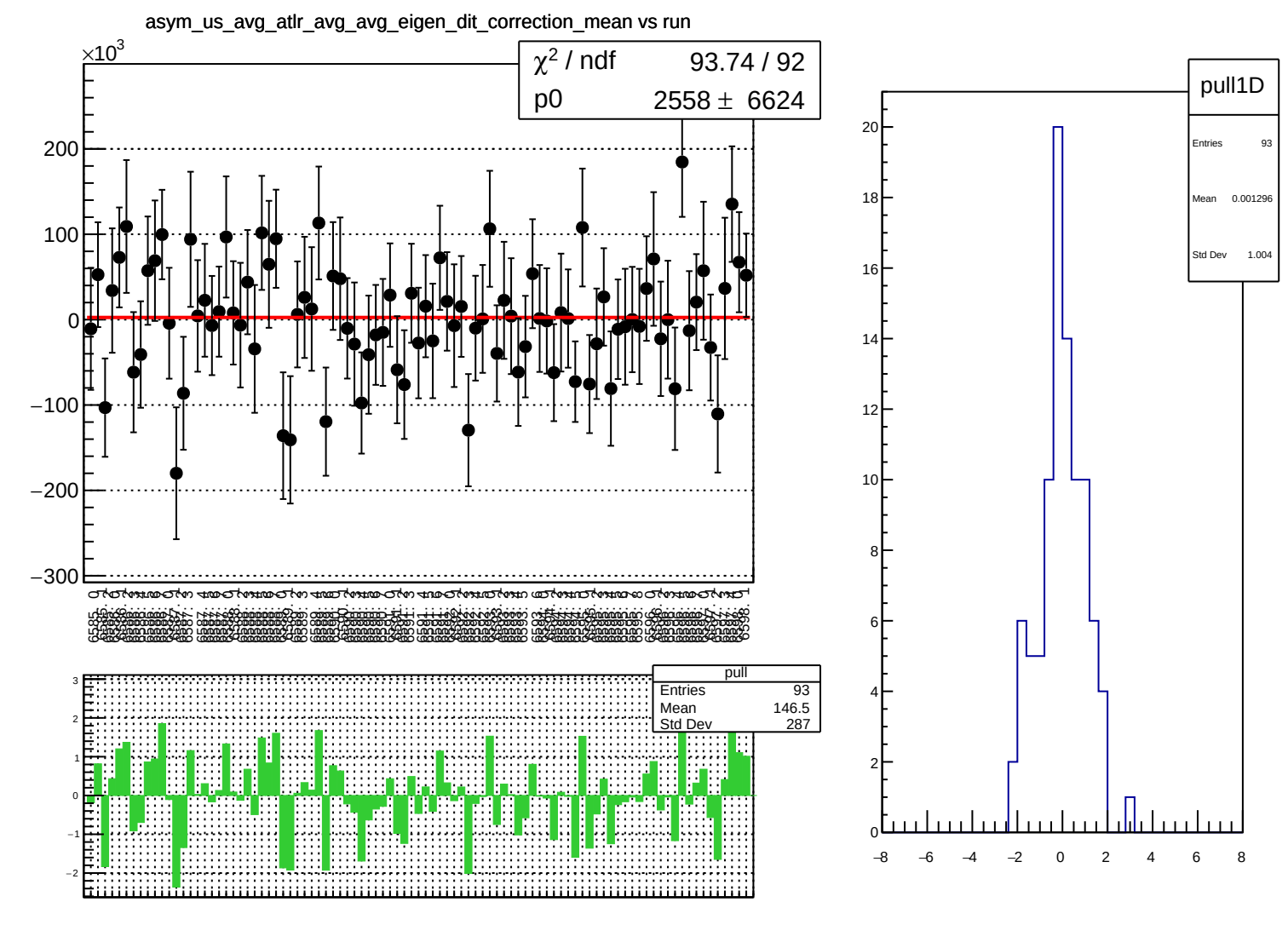
0
2
4
6
8

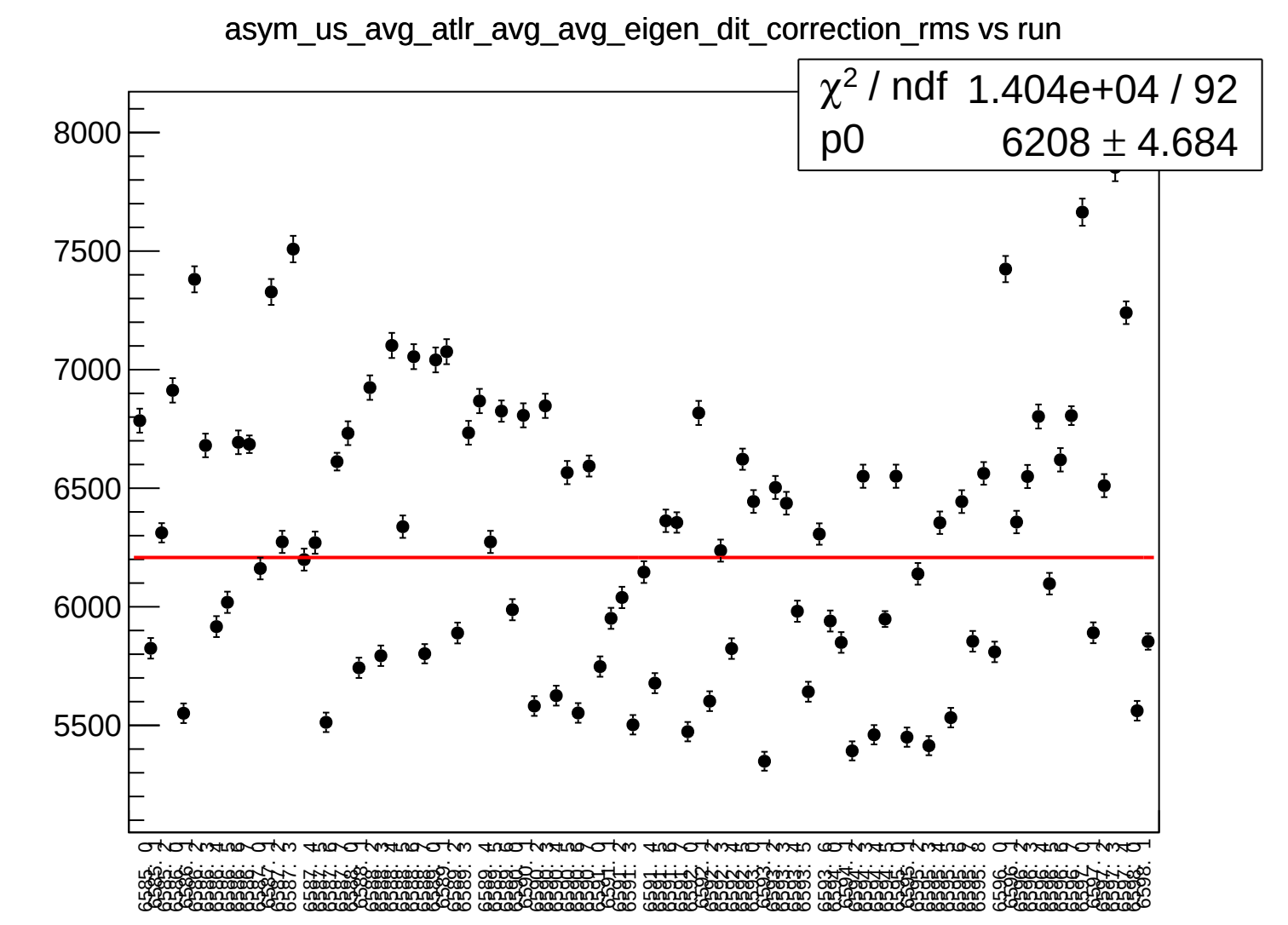

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.404e+04 / 92
p0 6208 ± 4.684
8000
7500
7000
6500
6000
5500

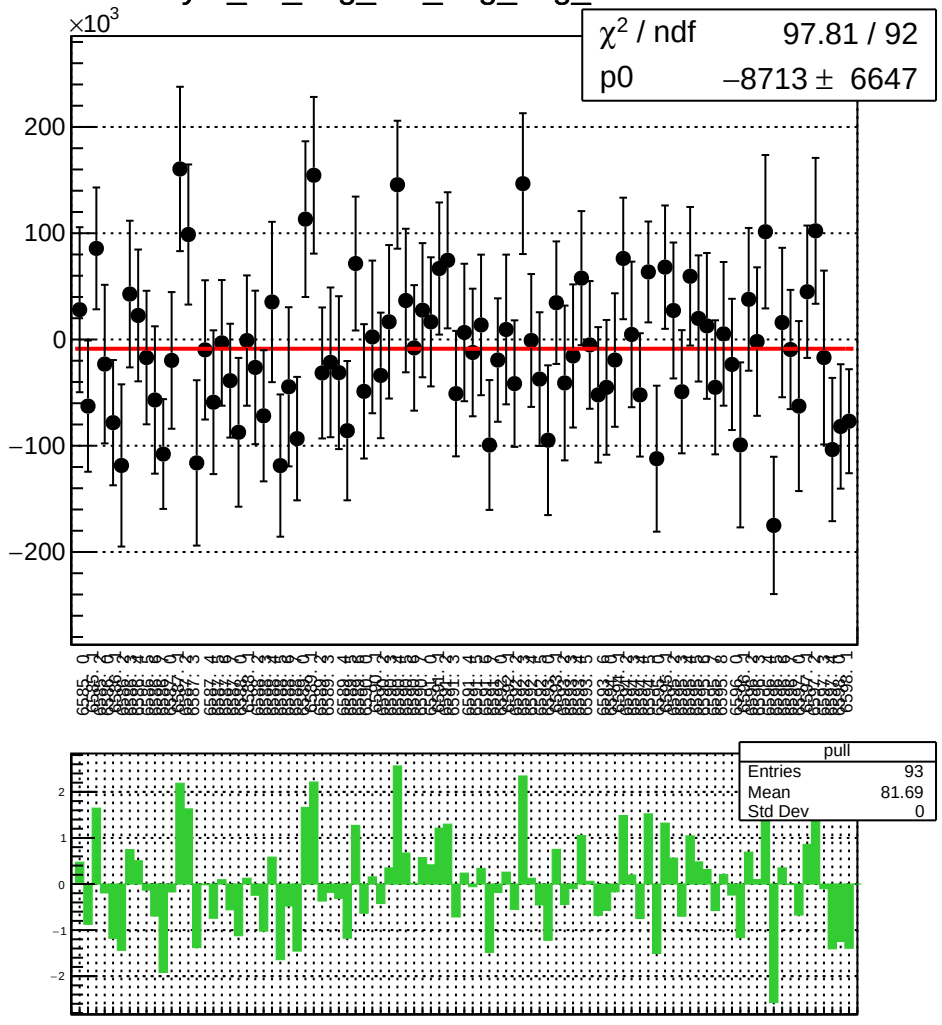

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 105.7 / 92
p0 −5738 ± 2041
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 179.2
Std Dev 0
3
2
1
0
−1
−2

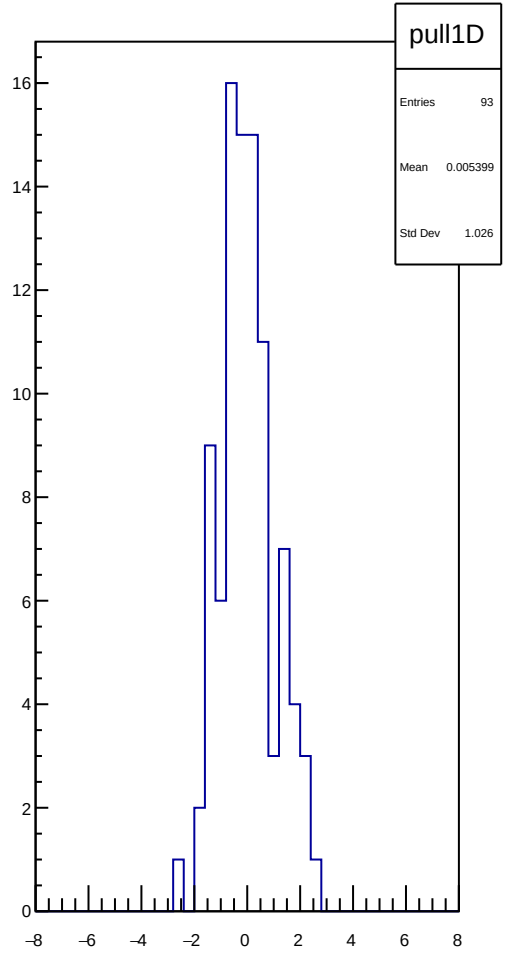

pull1D
Entries 93
Mean 0.01134
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

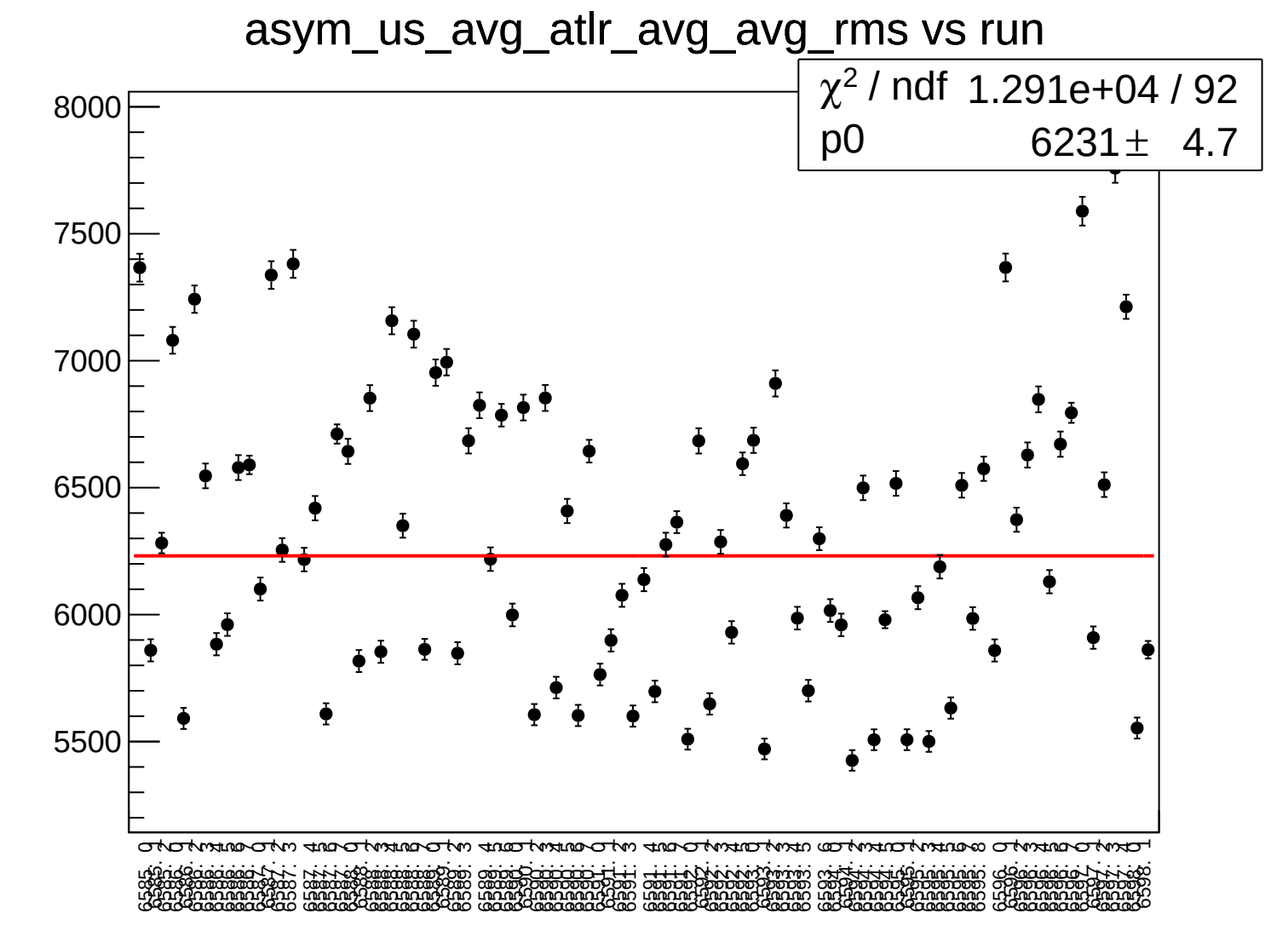

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 689.6 / 92
p0 1920 ± 1.443
2250
2200
2150
2100
2050
2000
1950
1900
1850

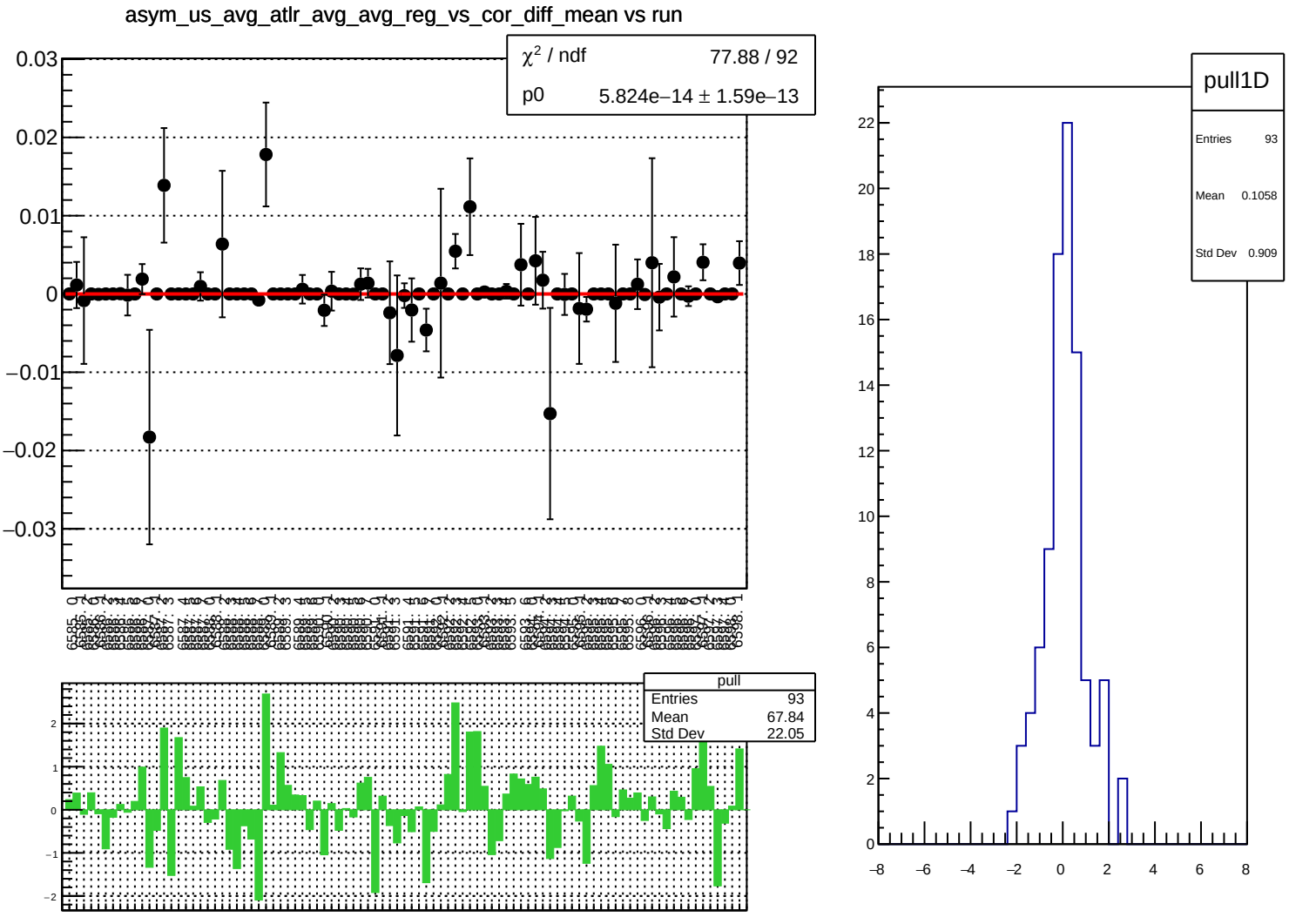

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.74 / 92
p0 2558 ± 6624
200
100
0
−100
−200
−300
pull
Entries 93
Mean 146.5
Std Dev 287
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001296
Std Dev 1.004
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

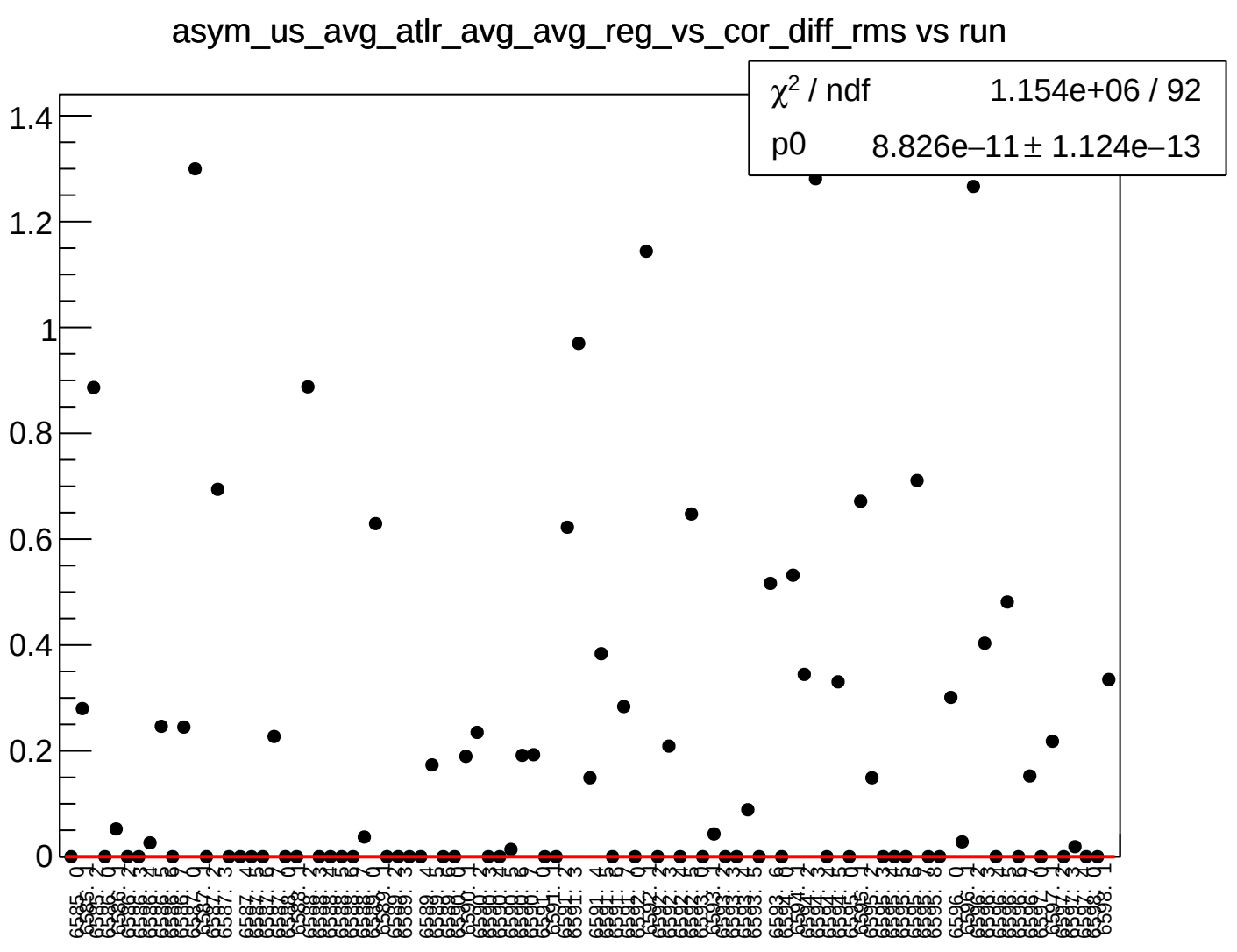

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.404e+04 / 92
p0 6208 ± 4.684
8000
7500
7000
6500
6000
5500

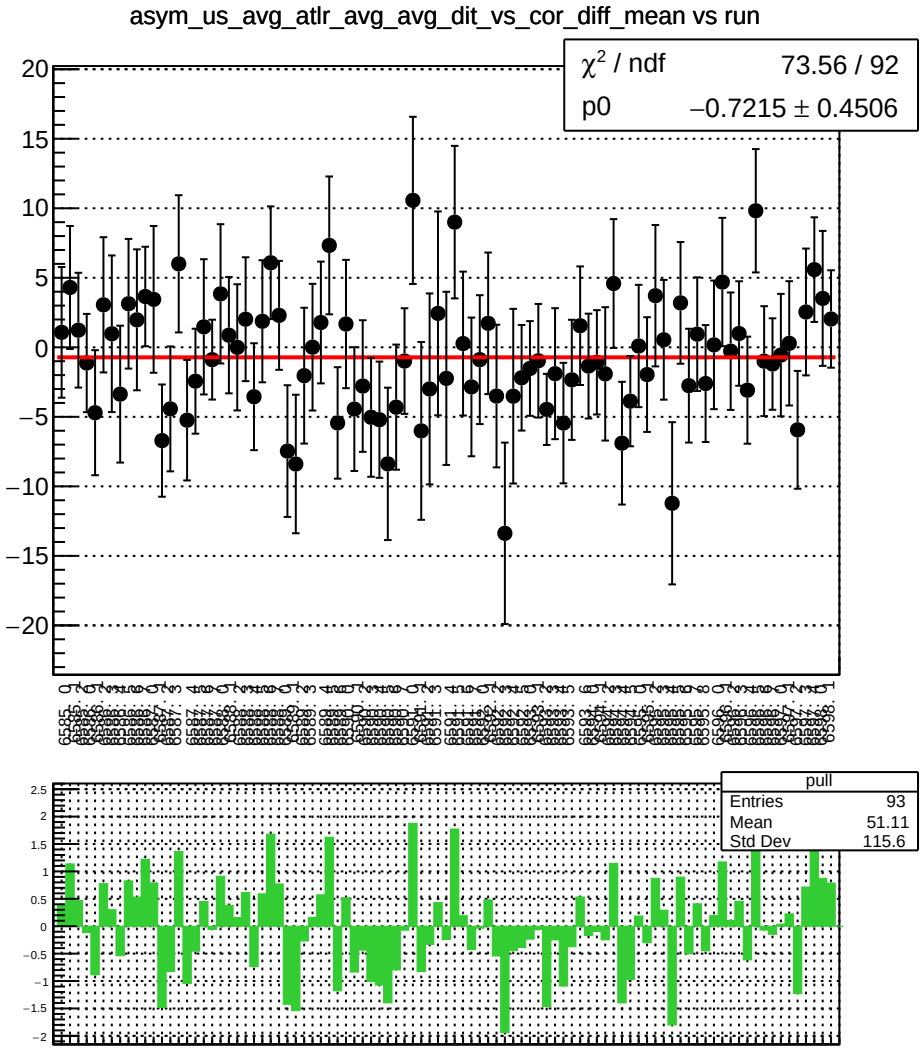

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 97.81 / 92
p0 −8713 ± 6647
200
100
0
−100
−200
pull
Entries 93
Mean 81.69
Std Dev 0
2
1
0
−1
−2

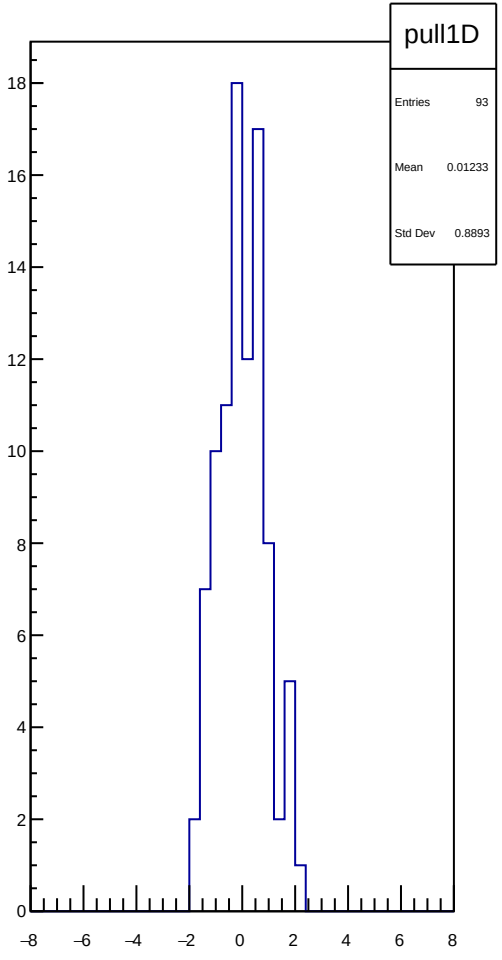

pull1D
Entries 93
Mean 0.005399
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

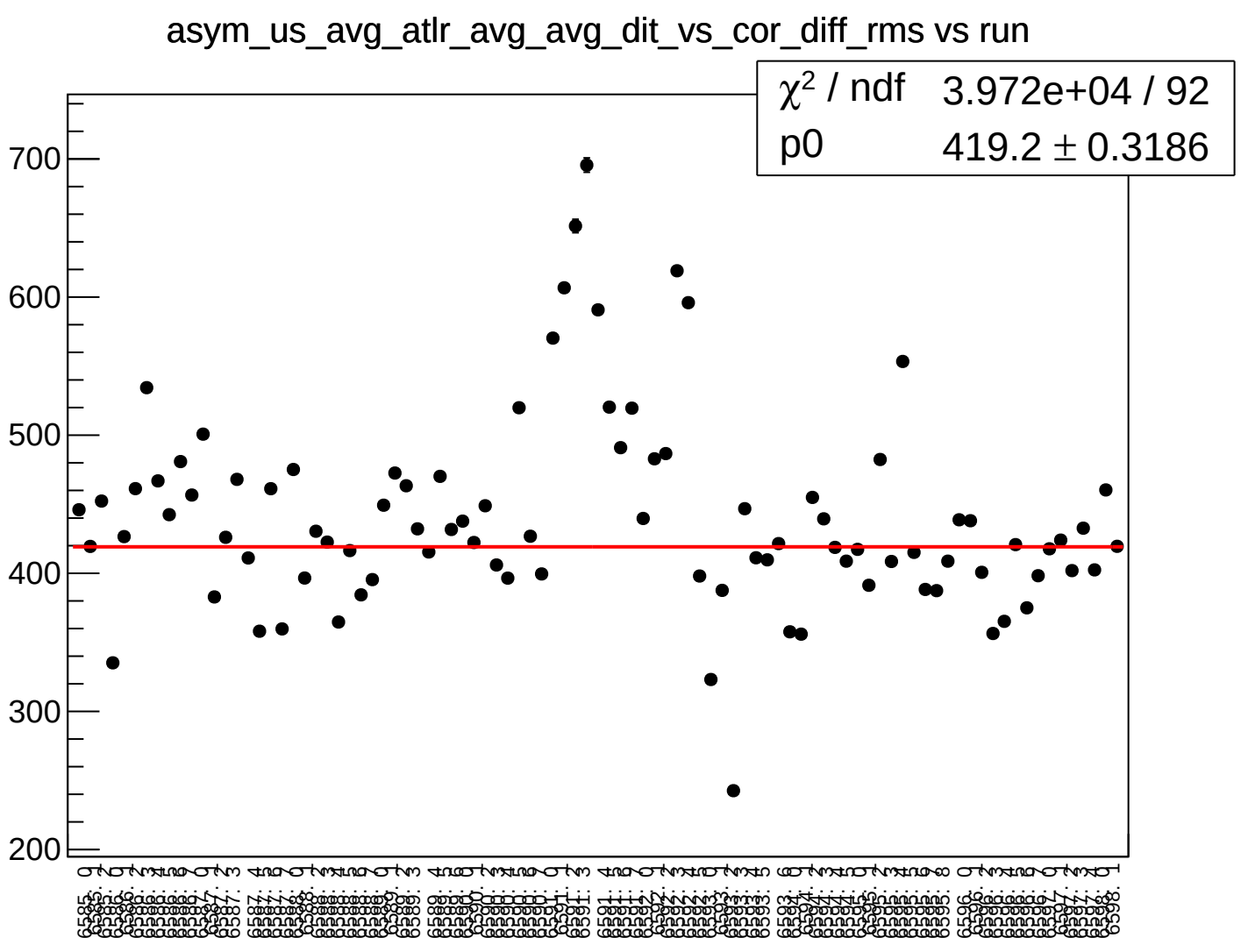

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1.291e+04 / 92
p0 6231 ± 4.7
8000
7500
7000
6500
6000
5500

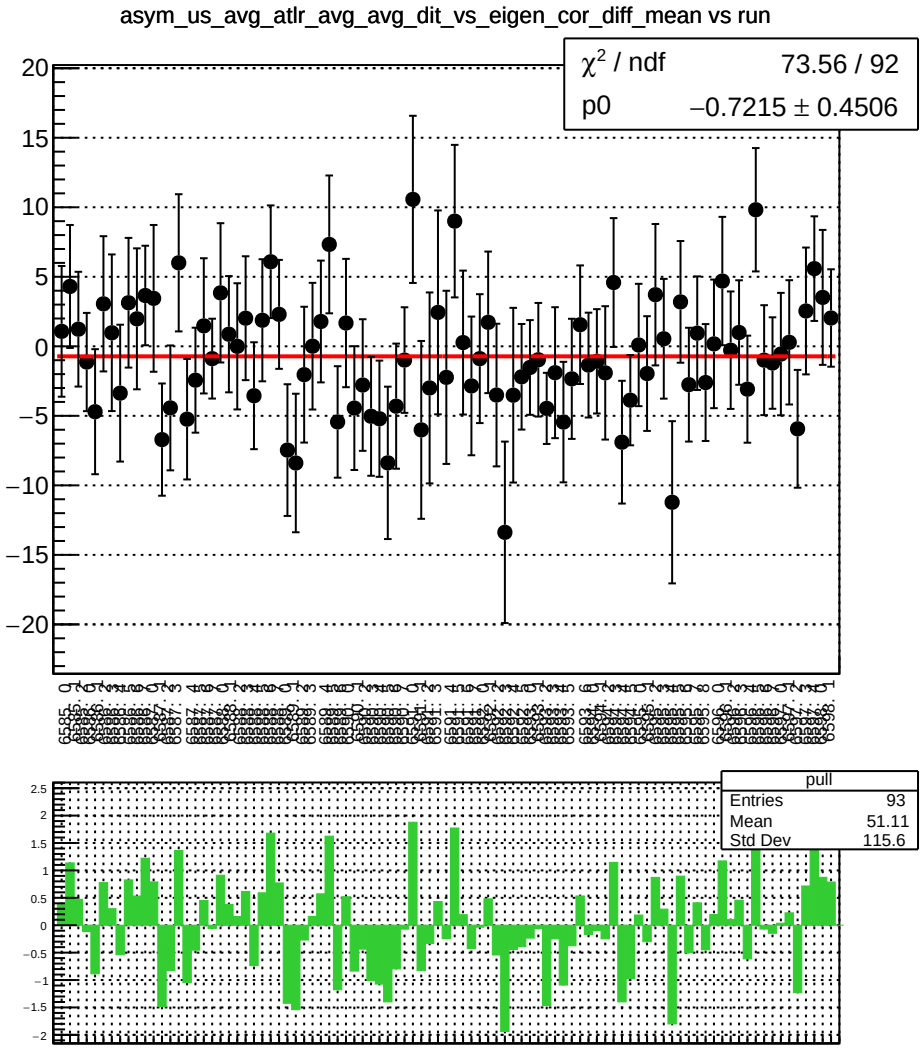

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.88 / 92
p0 5.824e−14 ± 1.59e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 67.84
Std Dev 22.05
pull1D
Entries 93
Mean 0.1058
Std Dev 0.909
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

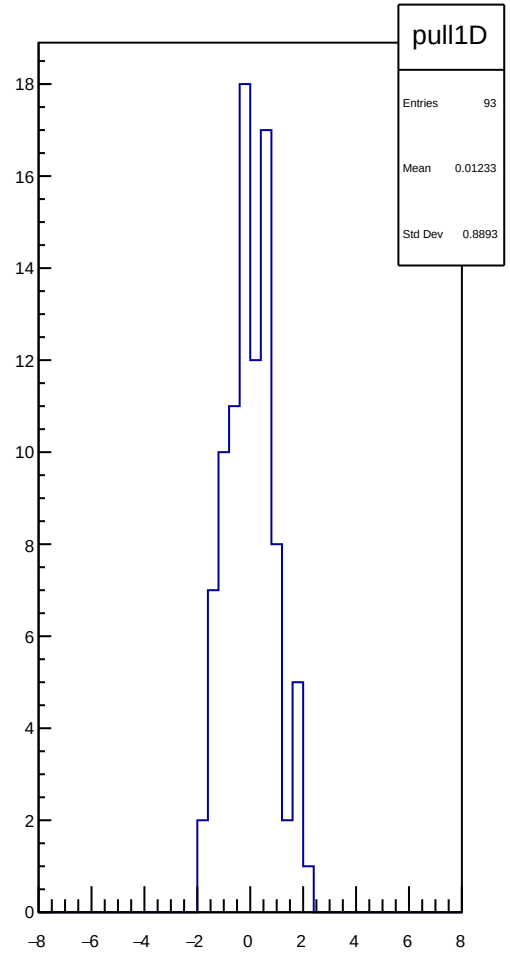

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.154e+06 / 92
p0 8.826e−11 ± 1.124e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

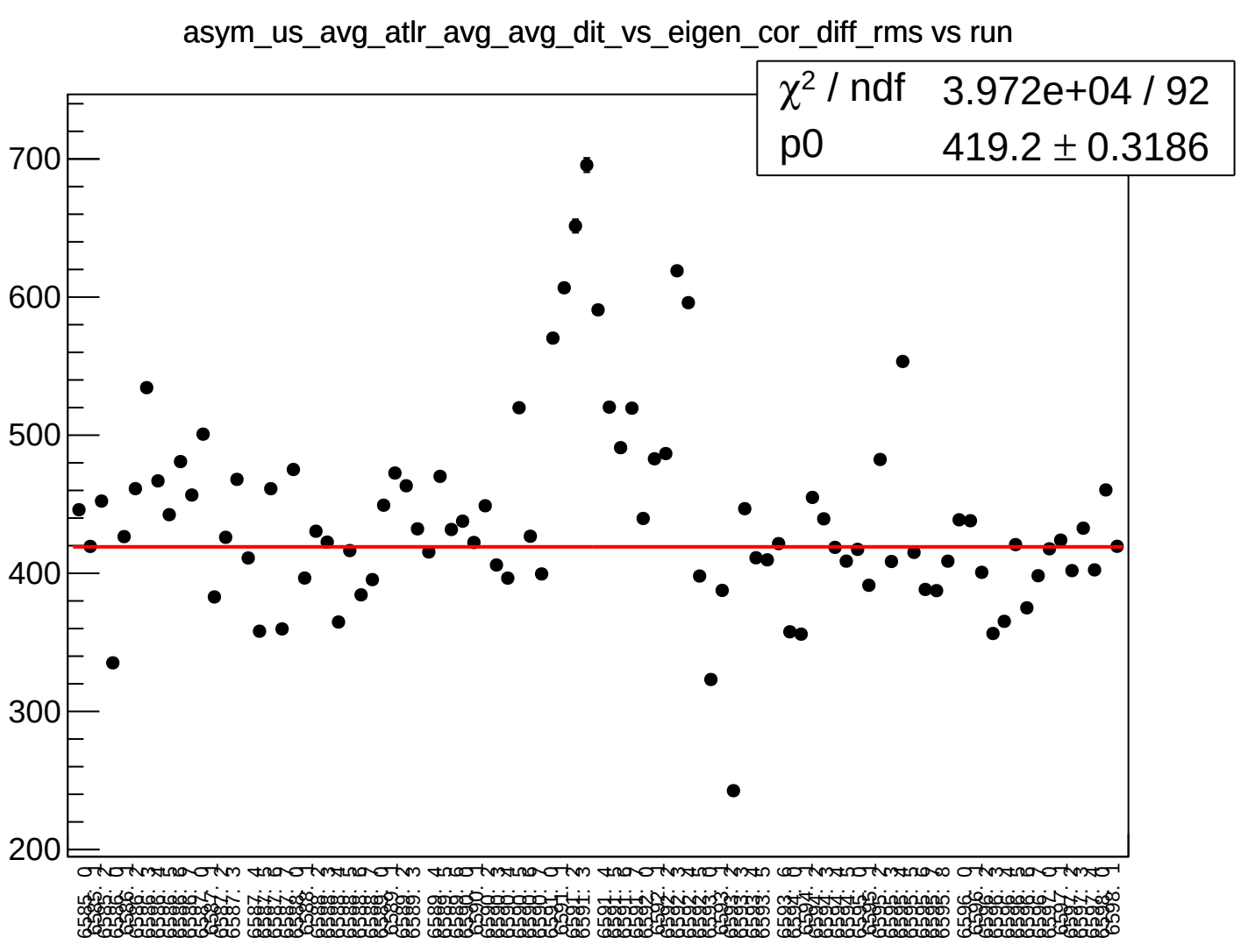

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.56 / 92
p0 −0.7215 ± 0.4506
pull
Entries 93
Mean 51.11
Std Dev 115.6

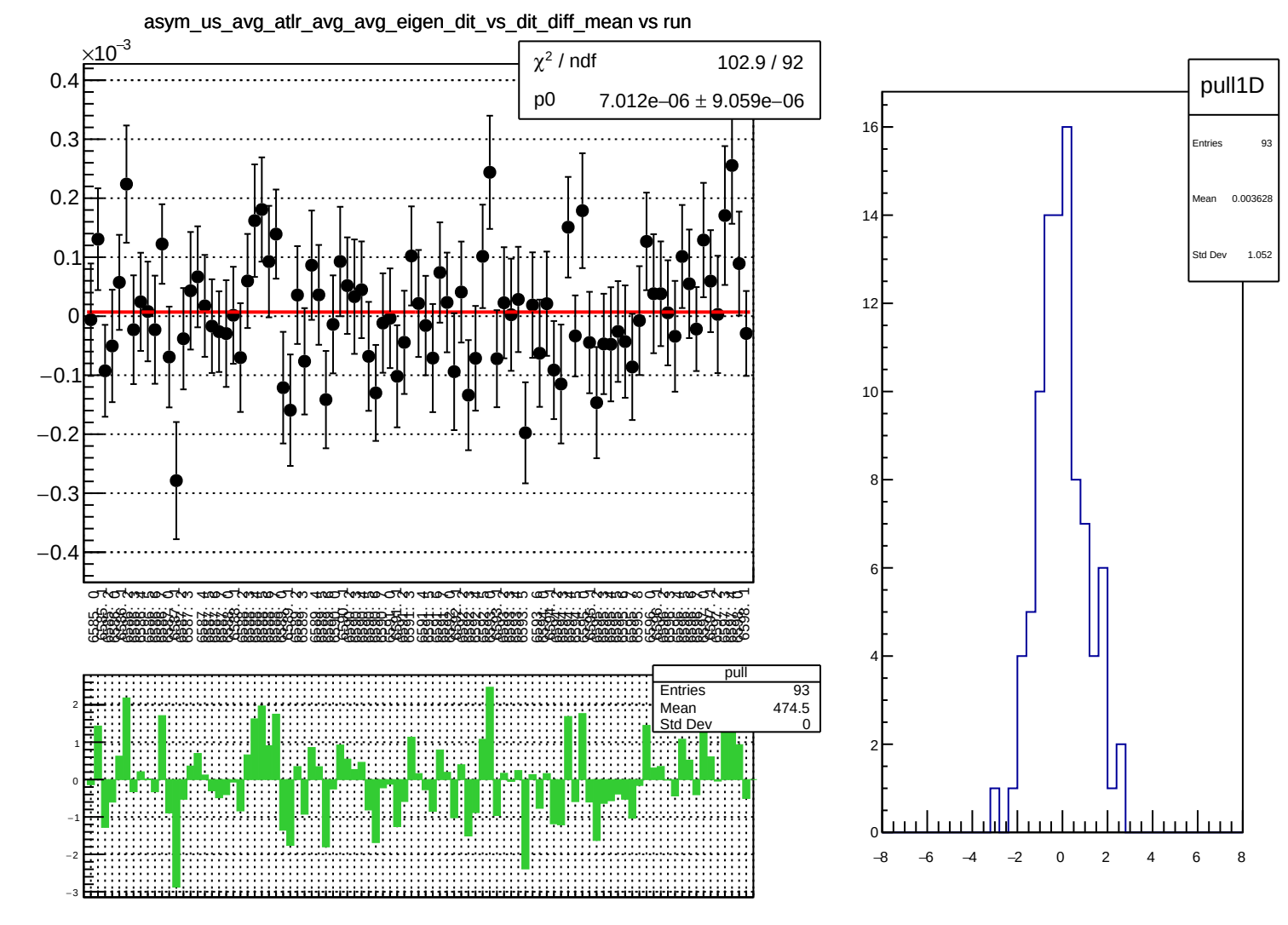

pull1D
Entries 93
Mean 0.01233
Std Dev 0.8893

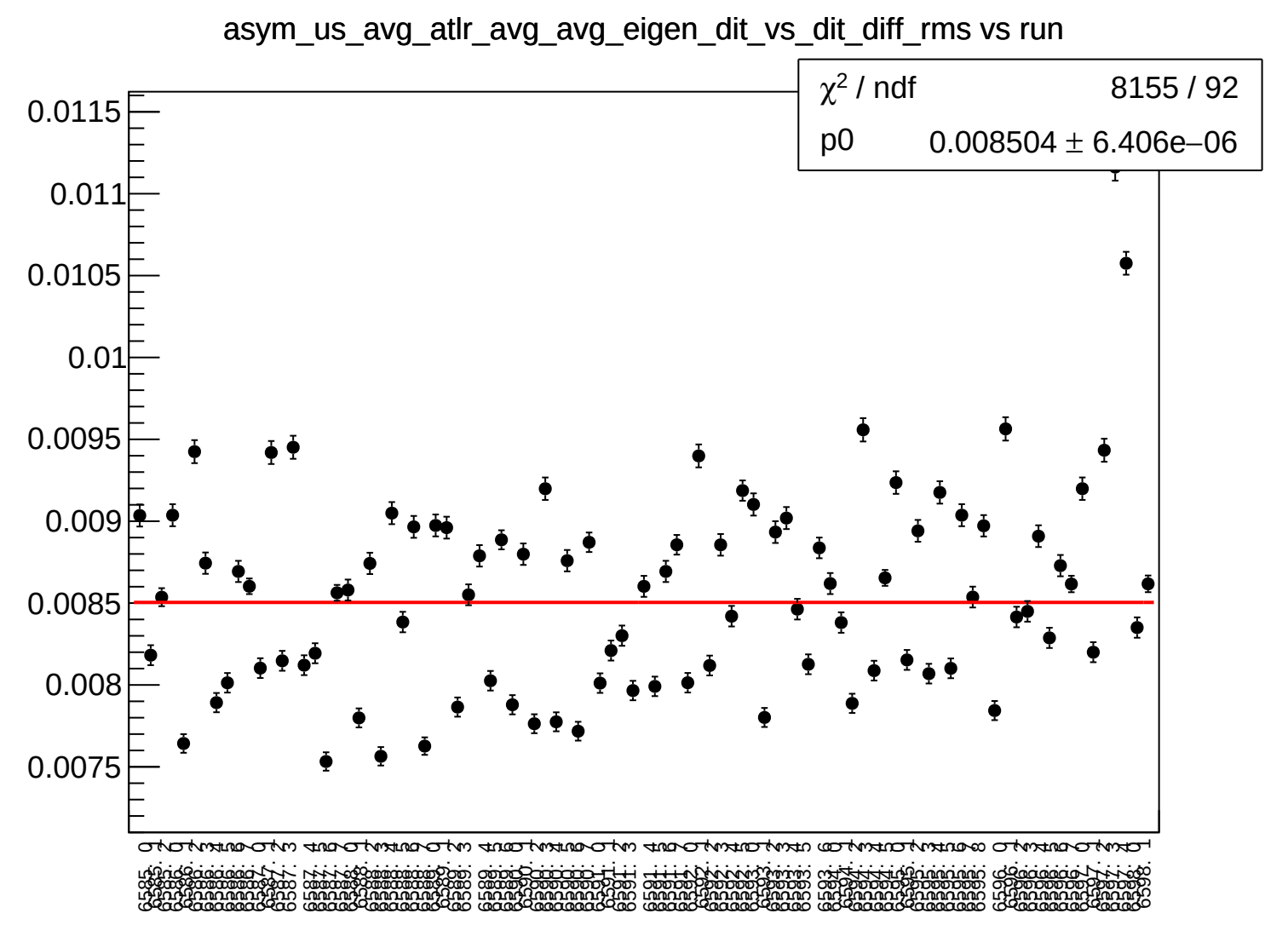

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.972e+04 / 92
p0 419.2 ± 0.3186
700
600
500
400
300
200

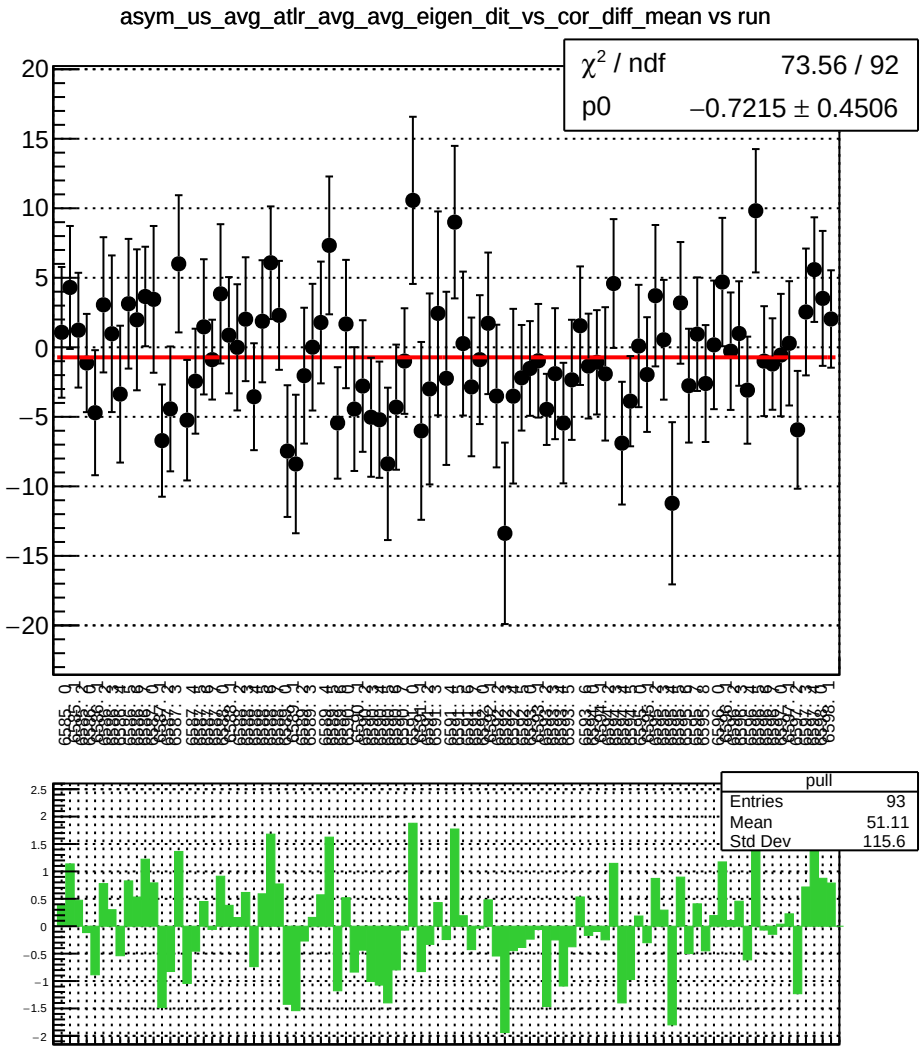

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.56 / 92
p0 −0.7215 ± 0.4506
pull
Entries 93
Mean 51.11
Std Dev 115.6

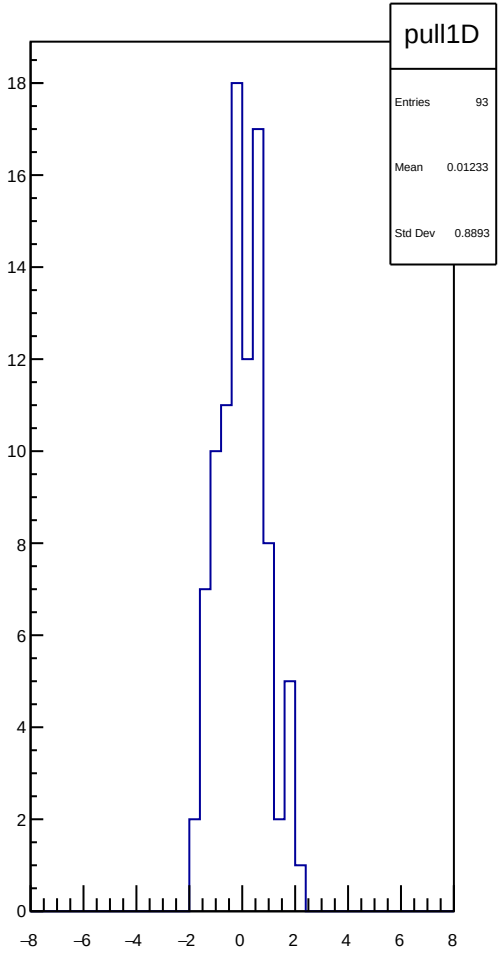

pull1D
Entries 93
Mean 0.01233
Std Dev 0.8893

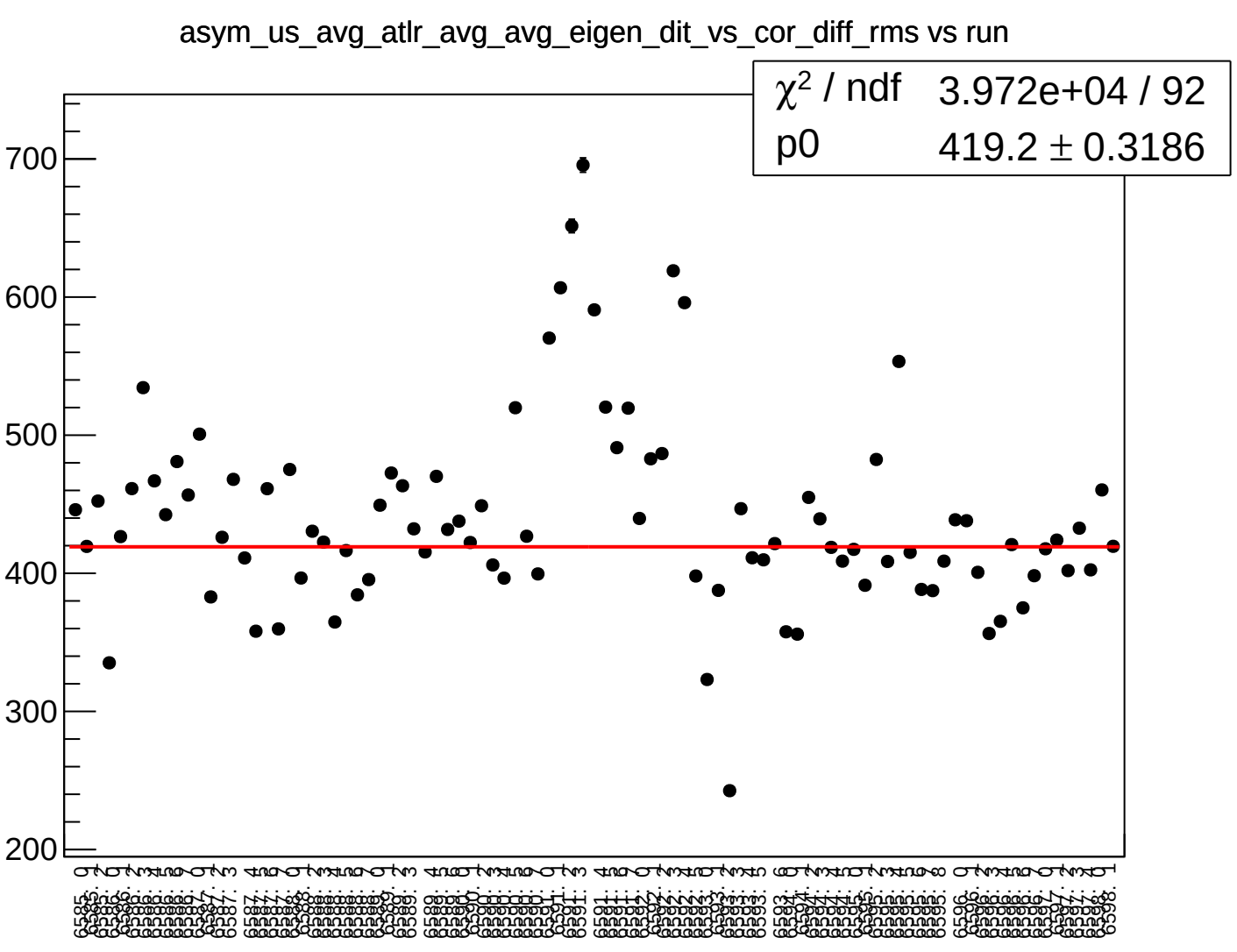

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.972e+04 / 92
p0 419.2 ± 0.3186
700
600
500
400
300
200

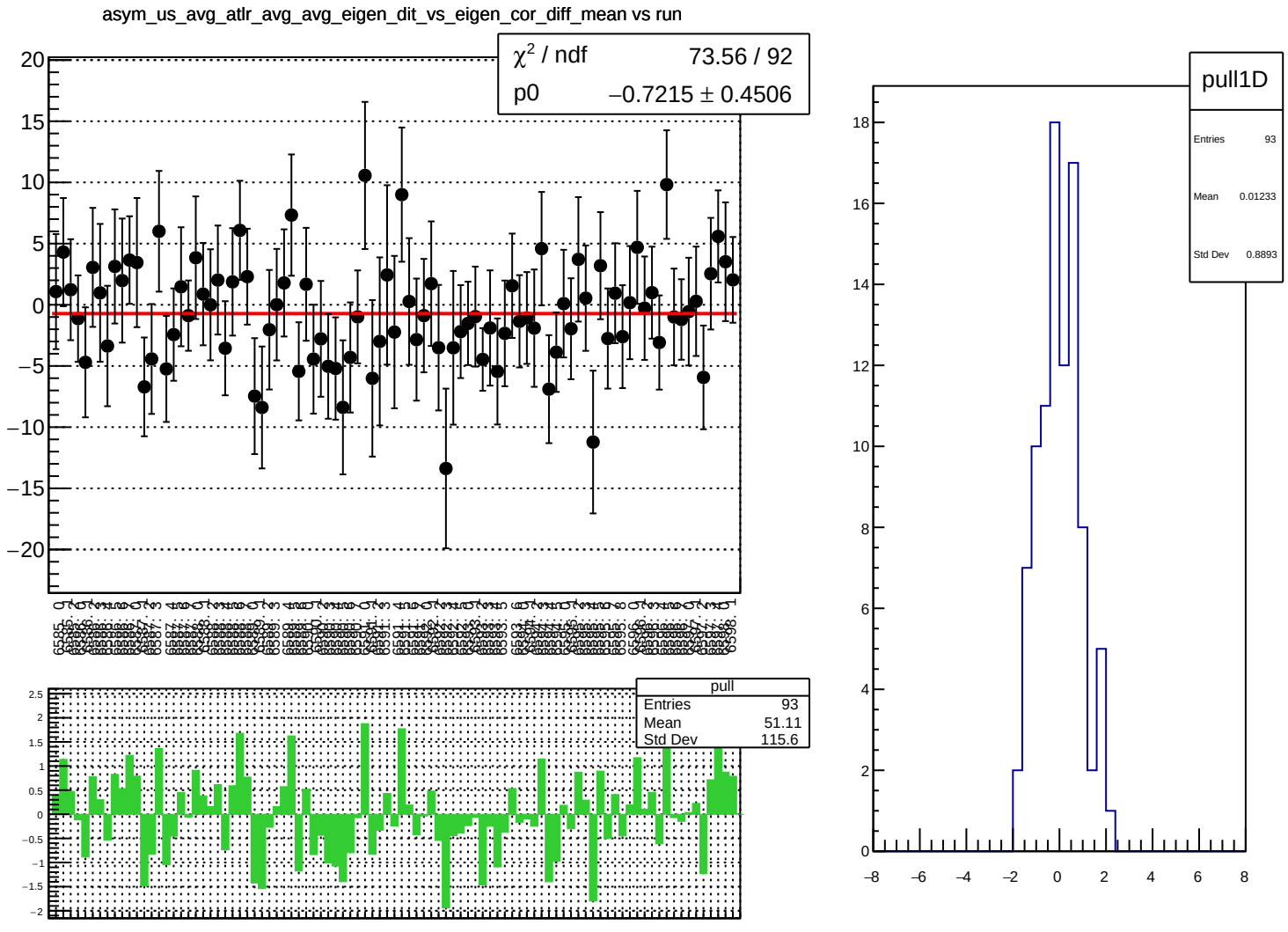

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 92
p0 7.012e−06 ± 9.059e−06
pull
Entries 93
Mean 474.5
Std Dev 0
pull1D
Entries 93
Mean 0.003628
Std Dev 1.052

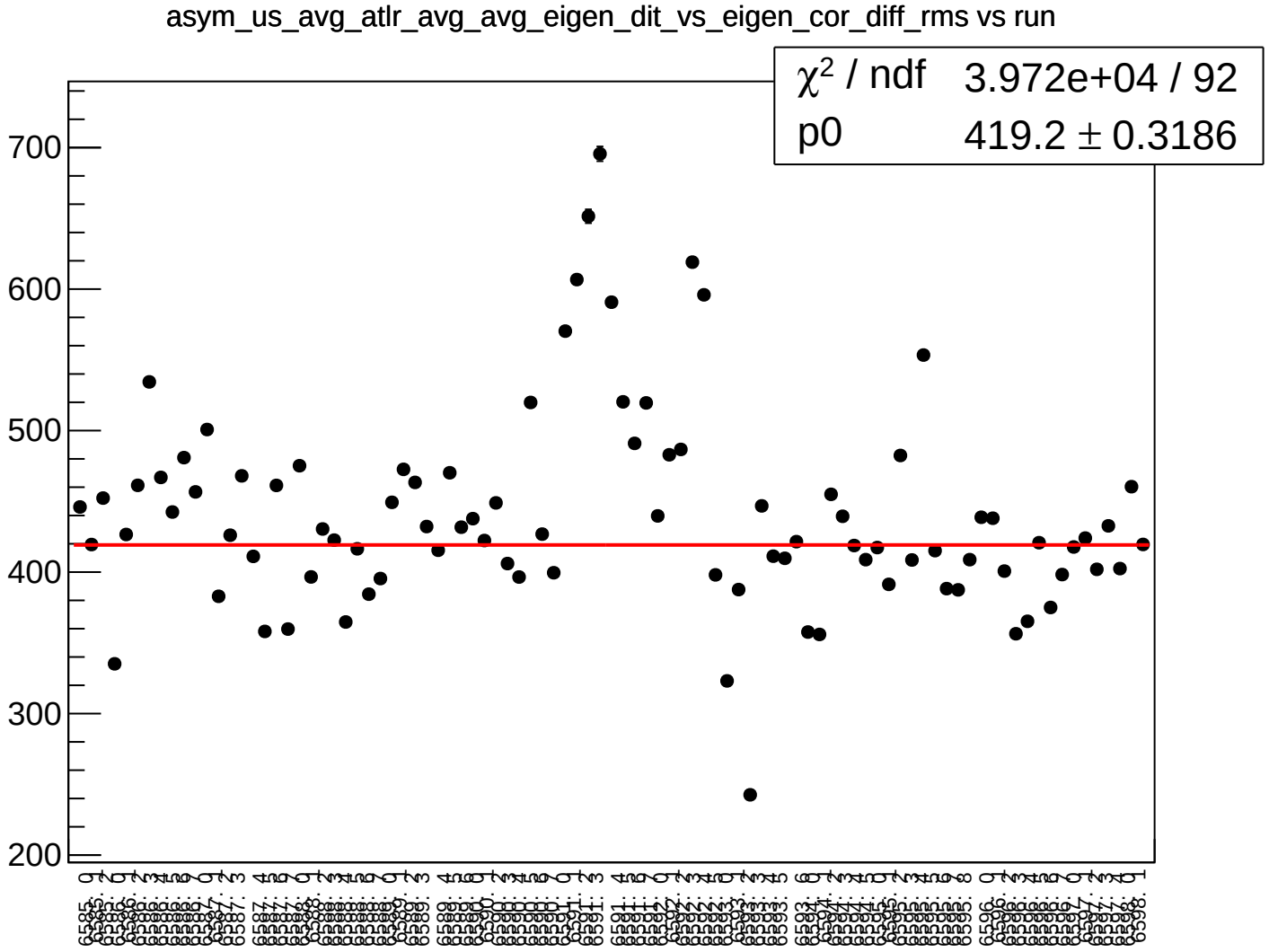

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8155 / 92
p0 0.008504 ± 6.406e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

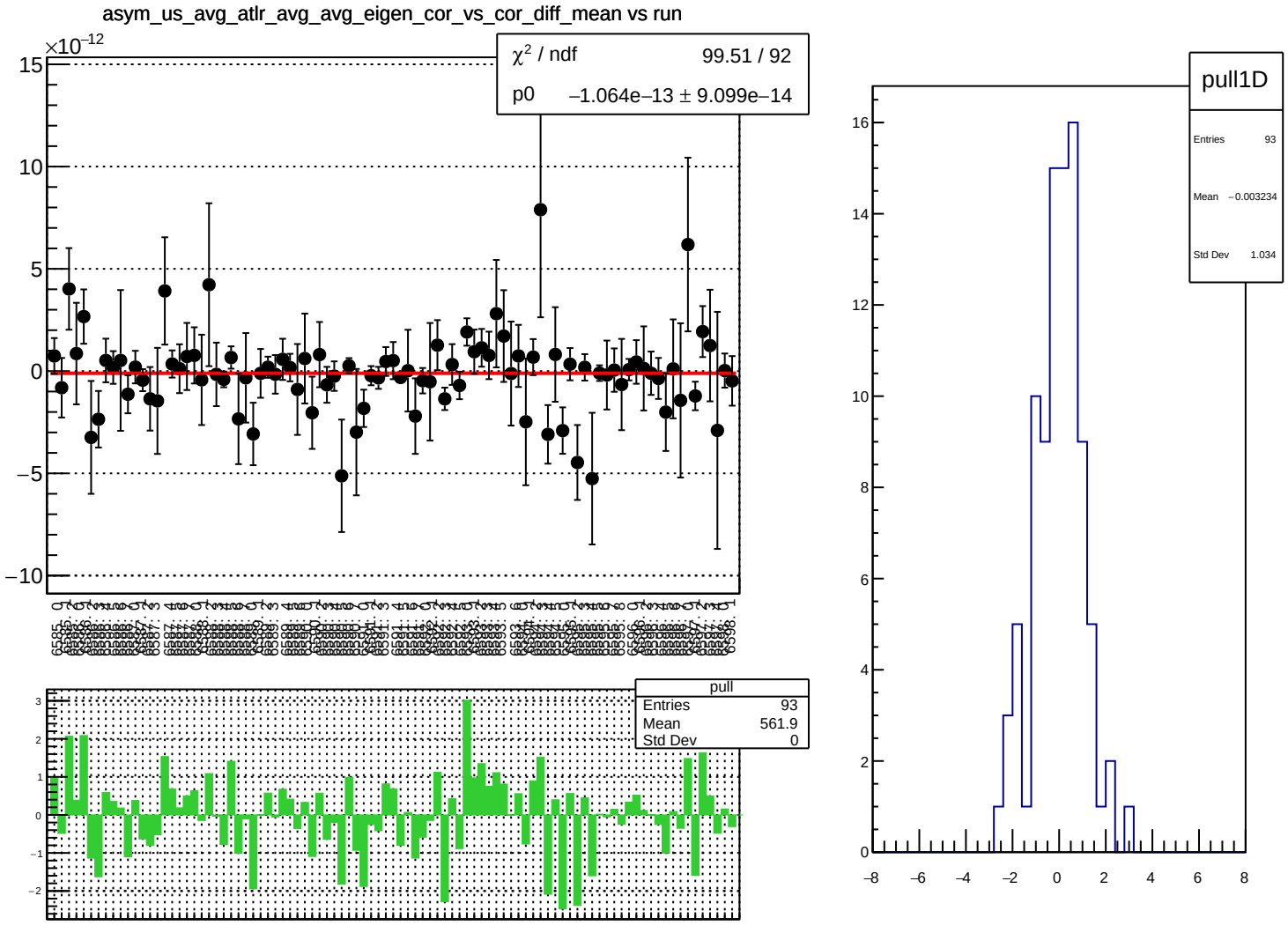

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.56 / 92
p0 −0.7215 ± 0.4506
pull
Entries 93
Mean 51.11
Std Dev 115.6

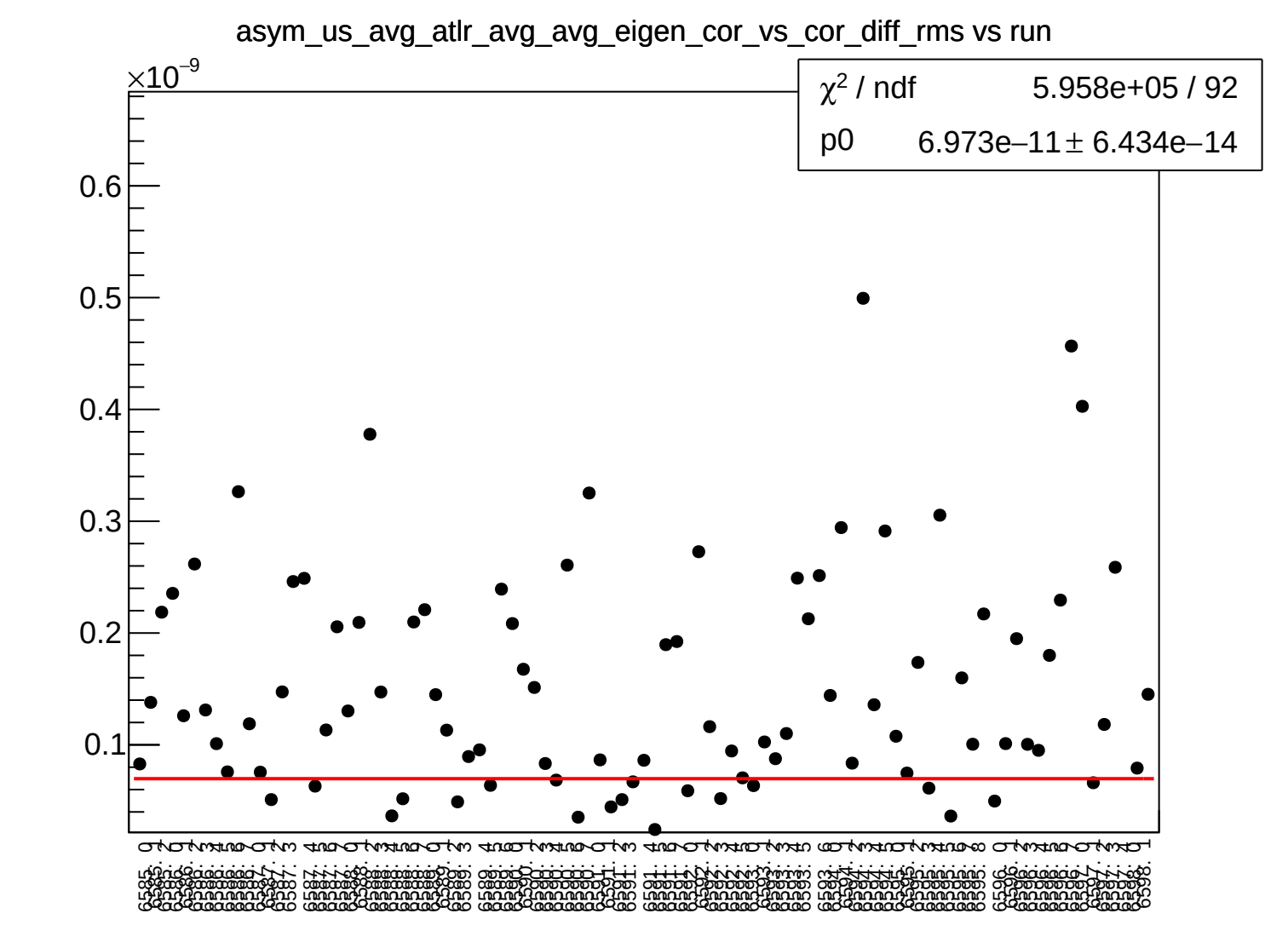

pull1D
Entries 93
Mean 0.01233
Std Dev 0.8893

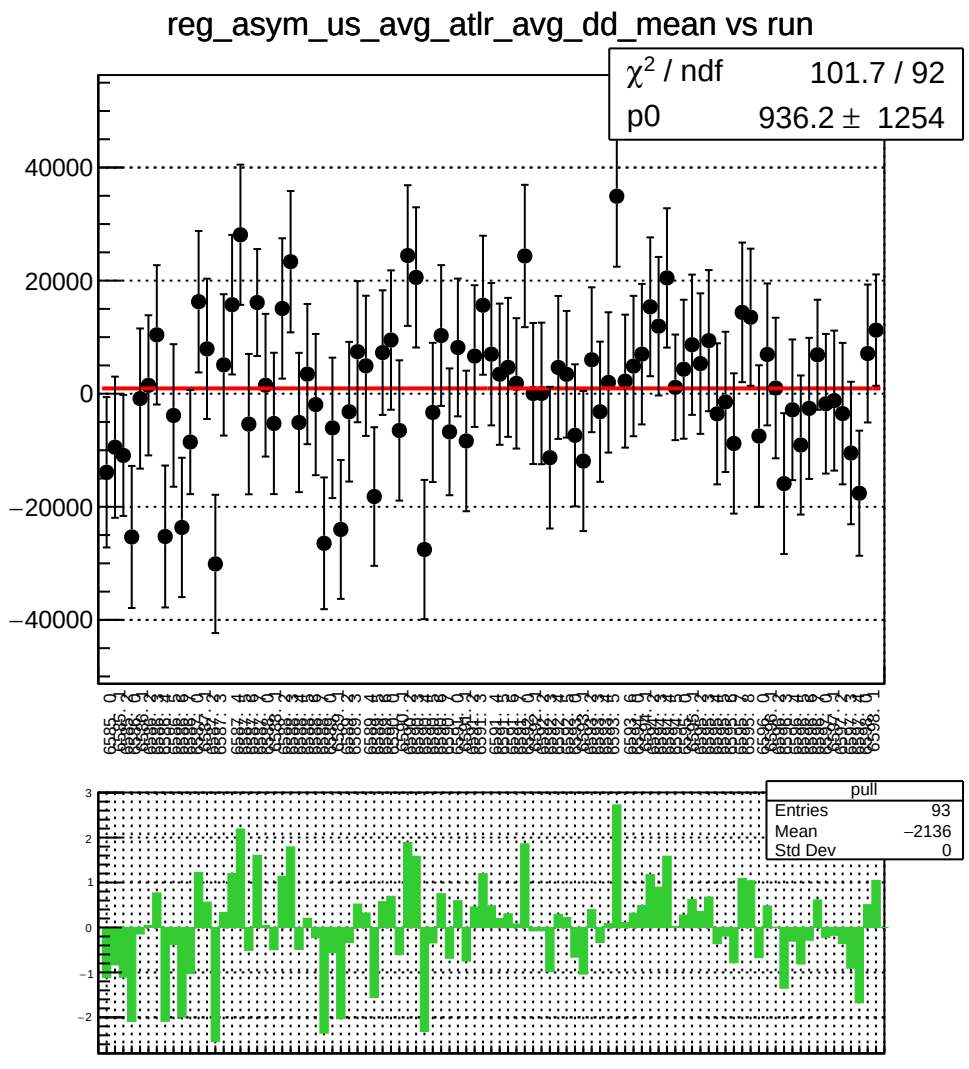

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.972e+04 / 92
p0 419.2 ± 0.3186
700
600
500
400
300
200

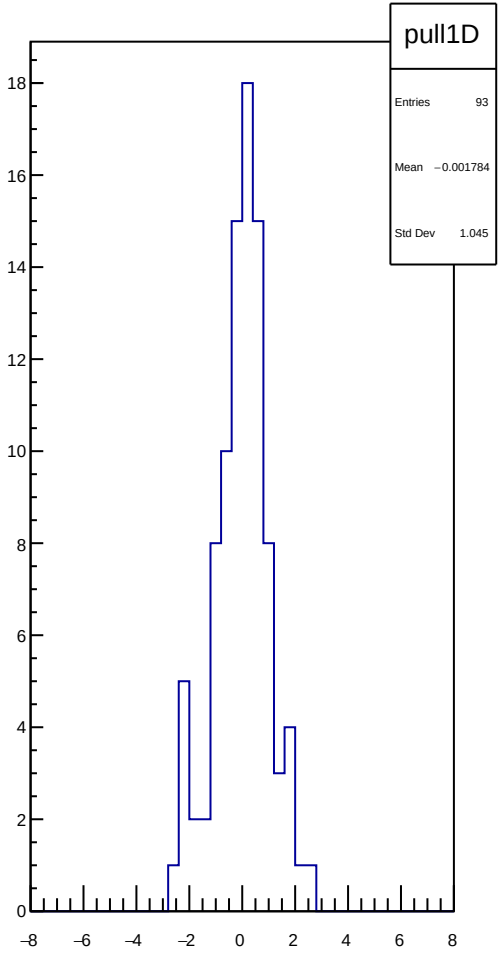

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.56 / 92
p0 −0.7215 ± 0.4506
pull
Entries 93
Mean 51.11
Std Dev 115.6
pull1D
Entries 93
Mean 0.01233
Std Dev 0.8893

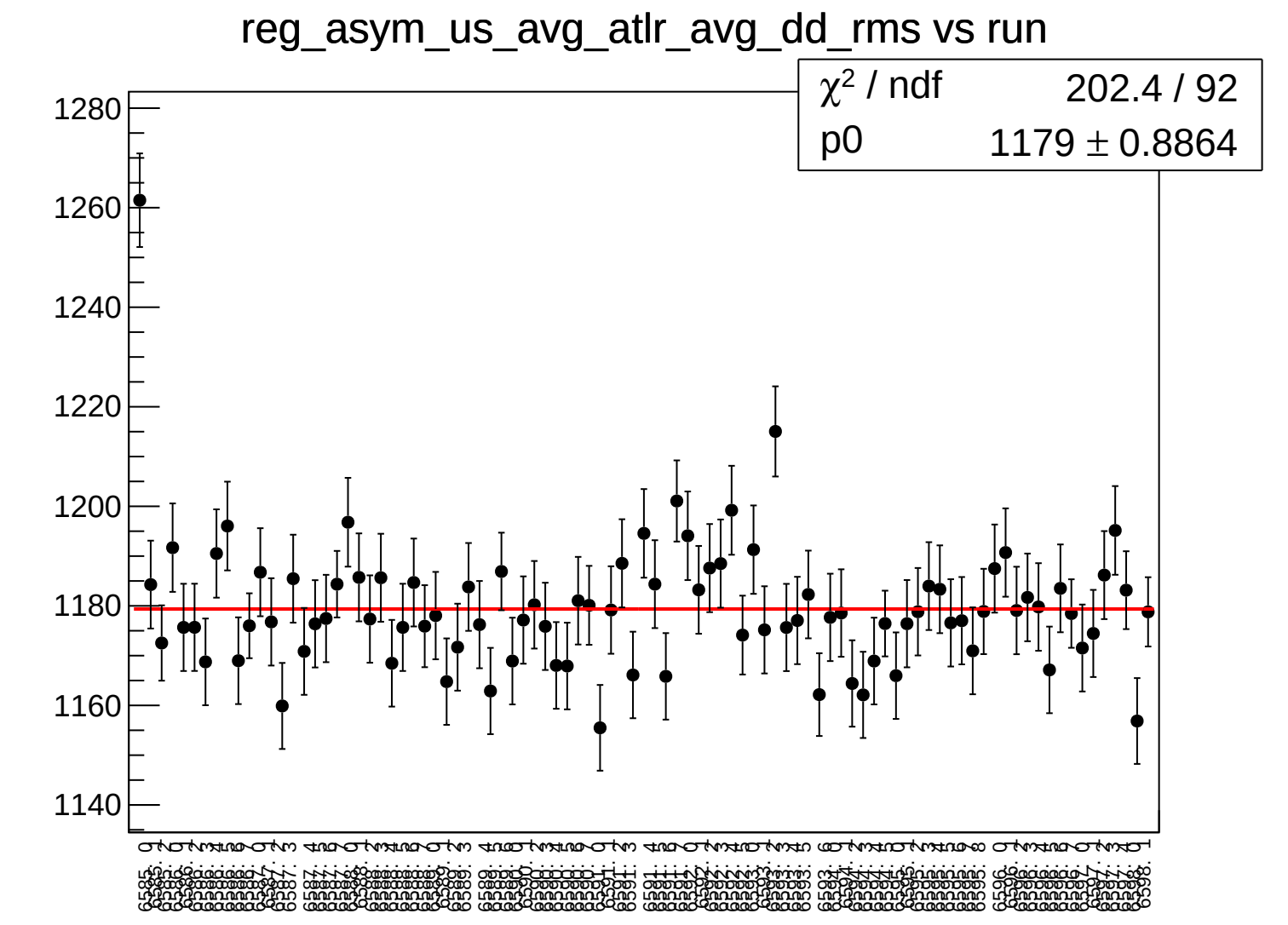

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.972e+04 / 92
p0 419.2 ± 0.3186
700
600
500
400
300
200

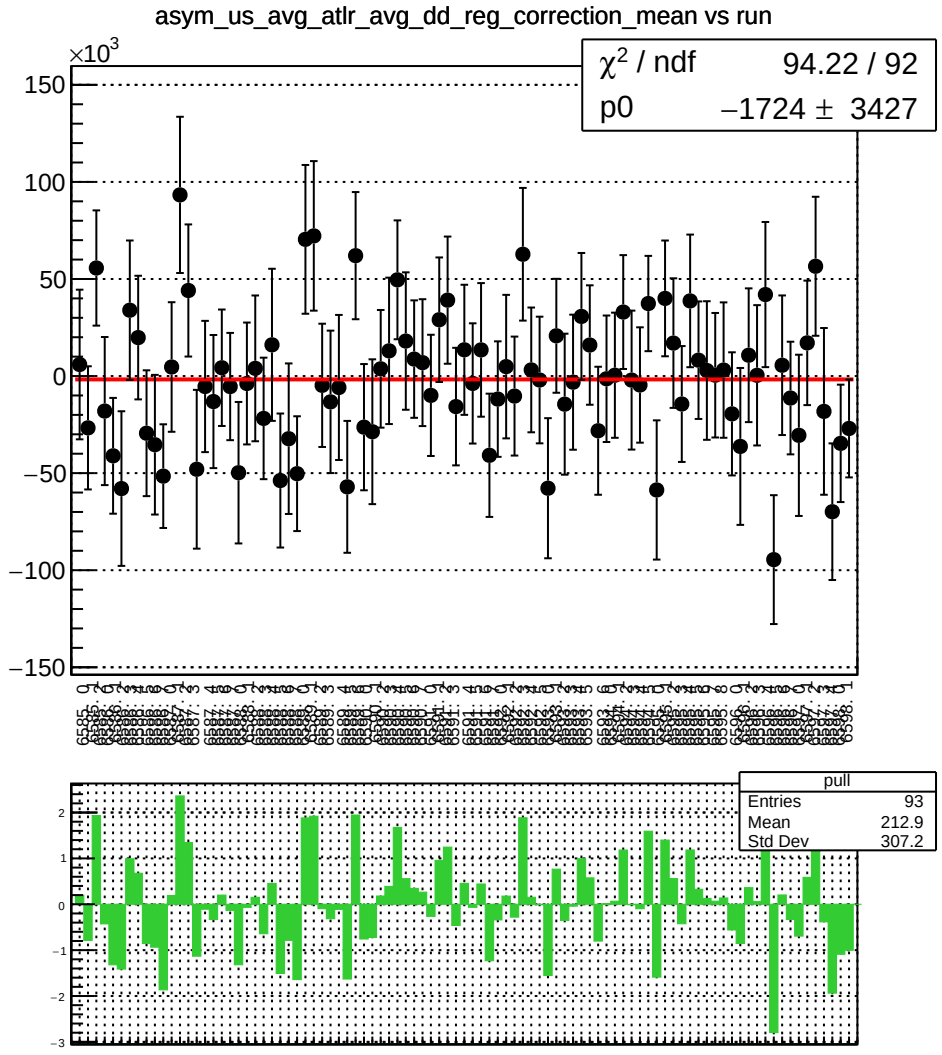

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.51 / 92
p0 −1.064e−13 ± 9.099e−14
pull
Entries 93
Mean 561.9
Std Dev 0
pull1D
Entries 93
Mean −0.003234
Std Dev 1.034

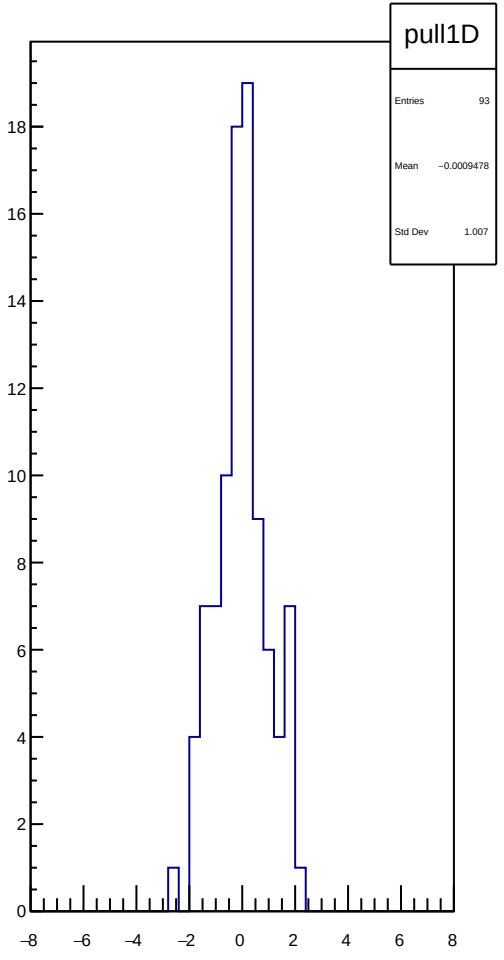

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.958e+05 / 92
p0 6.973e−11 ± 6.434e−14
0.6
0.5
0.4
0.3
0.2
0.1

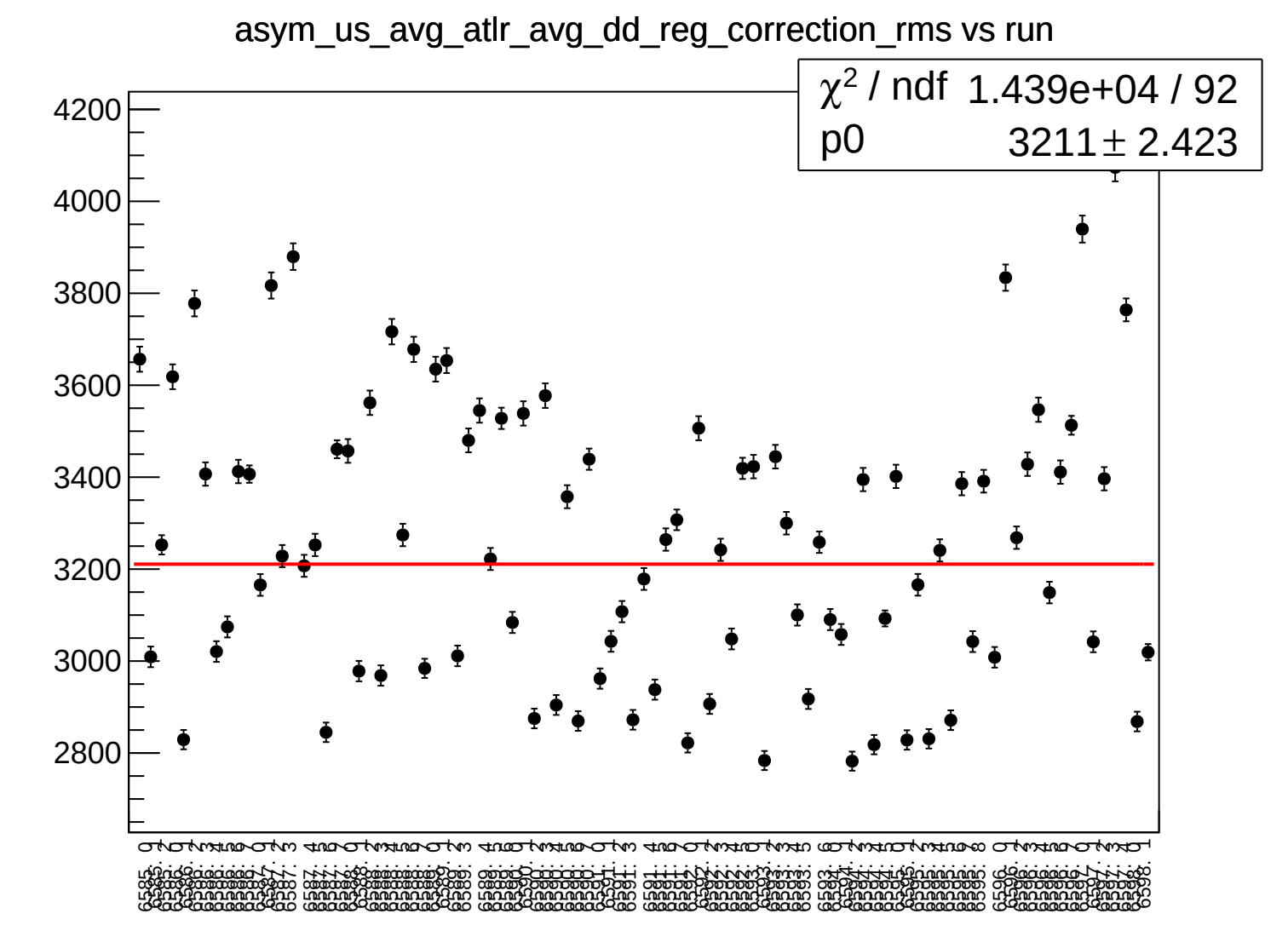

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 101.7 / 92
p0 936.2 ± 1254
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −2136
Std Dev 0
3
2
1
0
−1
−2

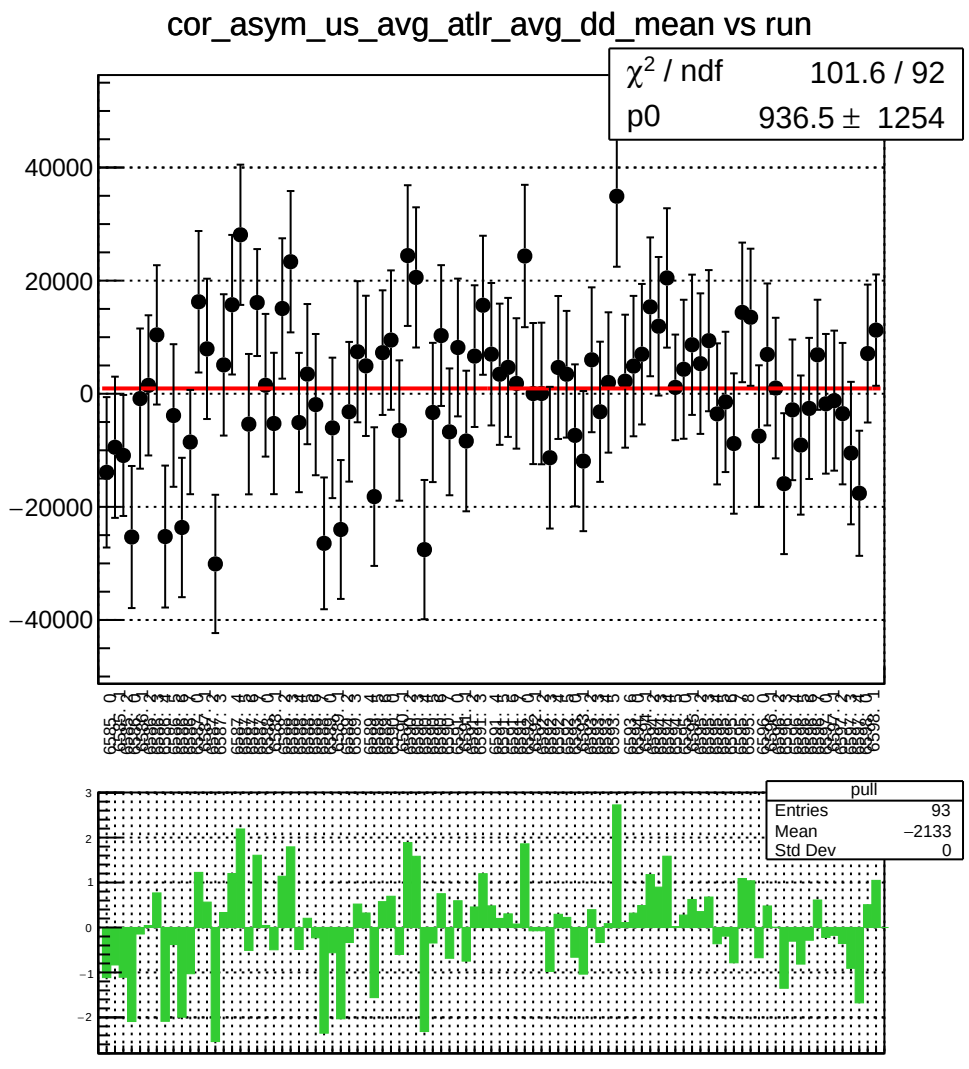

pull1D
Entries 93
Mean −0.001784
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

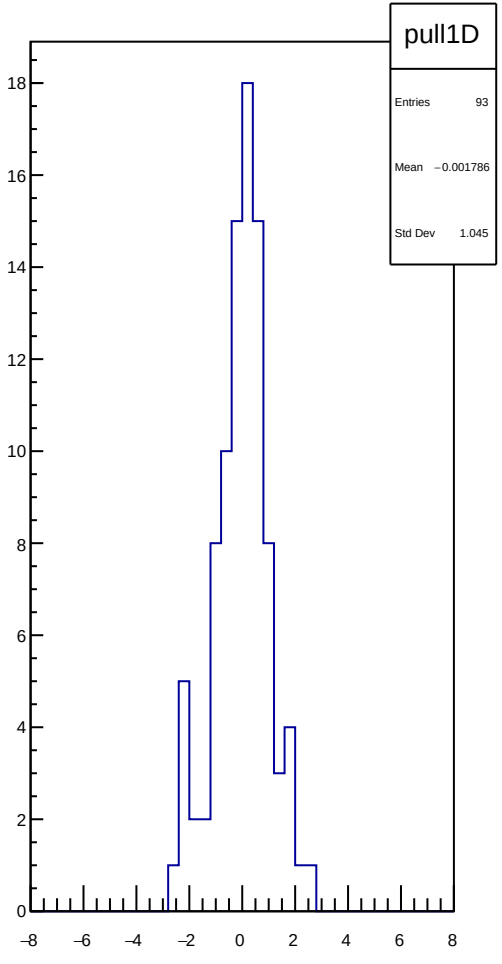

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 202.4 / 92
p0 1179 ± 0.8864
1280
1260
1240
1220
1200
1180
1160
1140

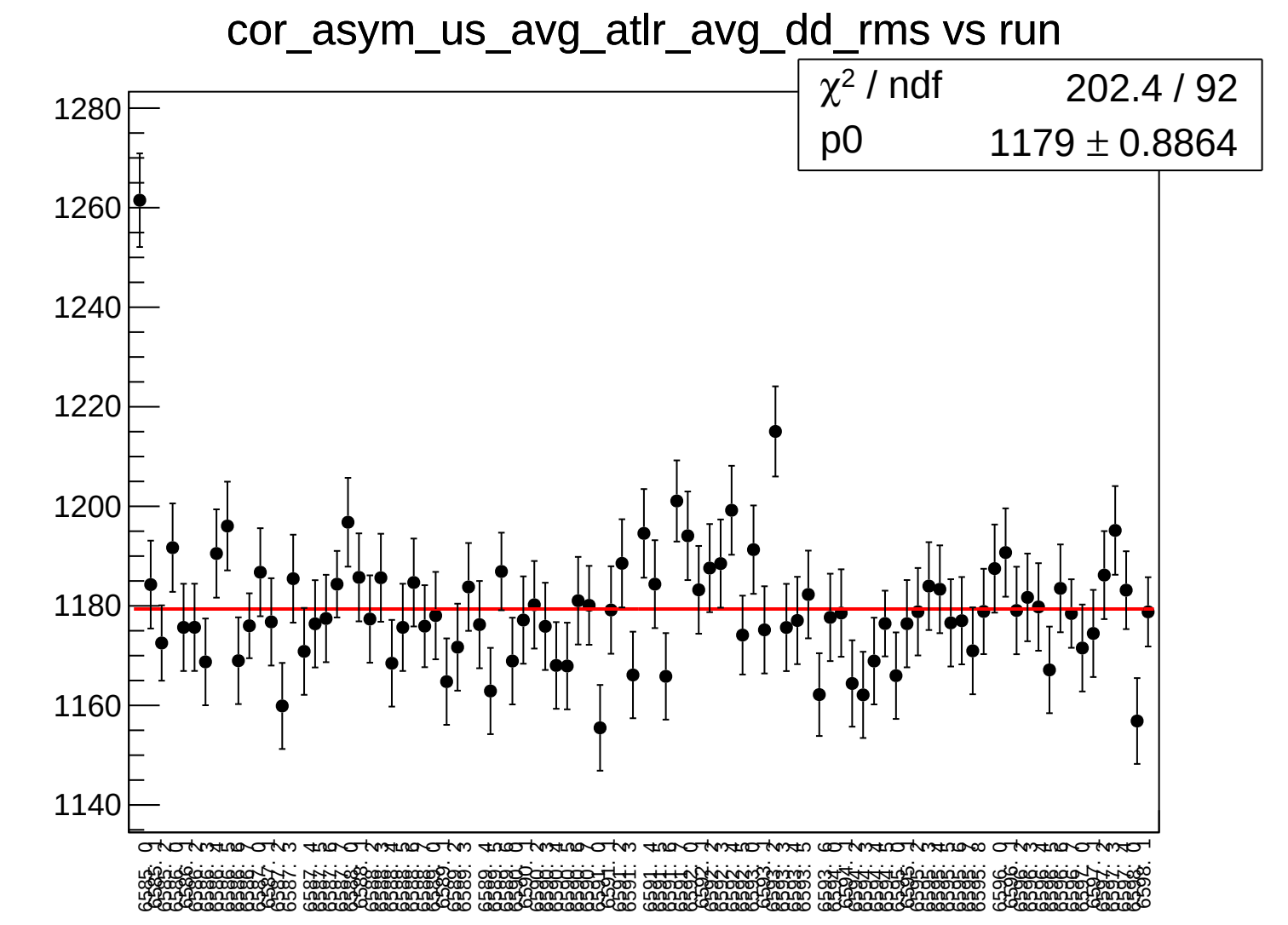

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 94.22 / 92
p0 −1724 ± 3427
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 212.9
Std Dev 307.2
2
1
0
−1
−2
−3

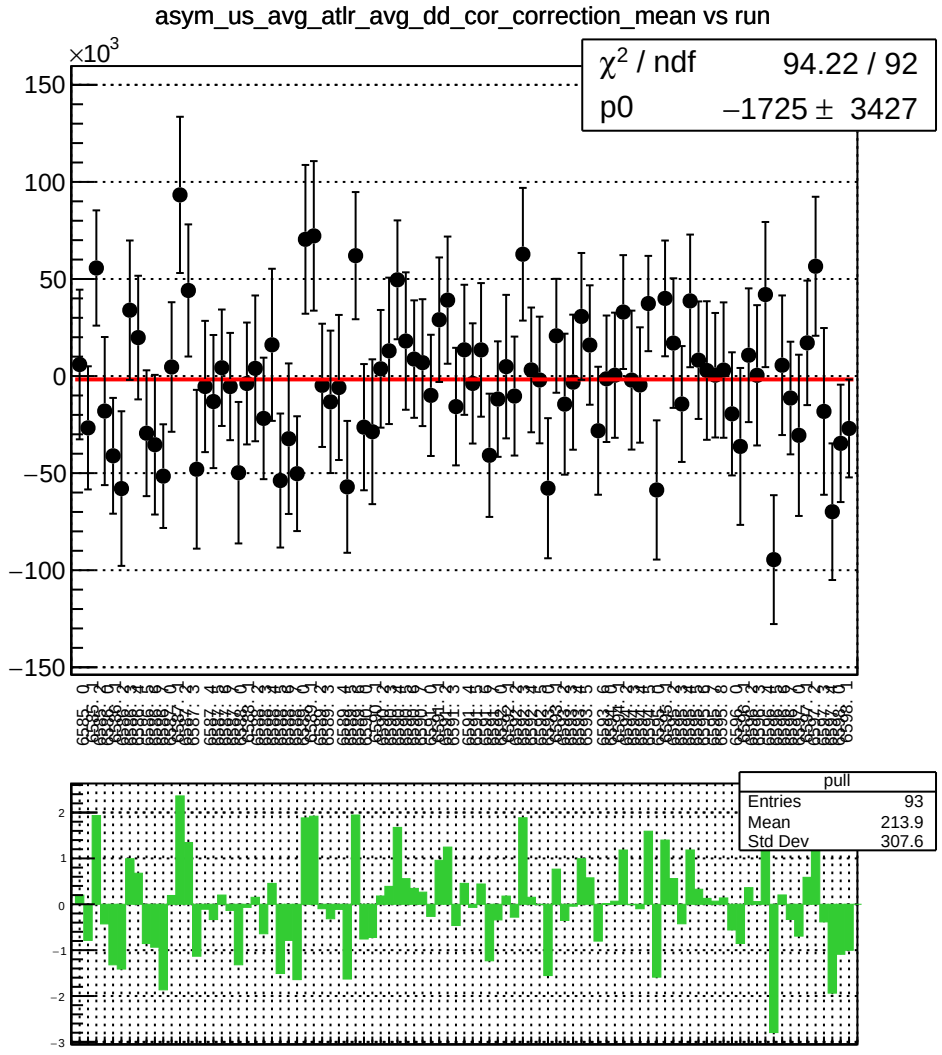

pull1D
Entries 93
Mean −0.0009478
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

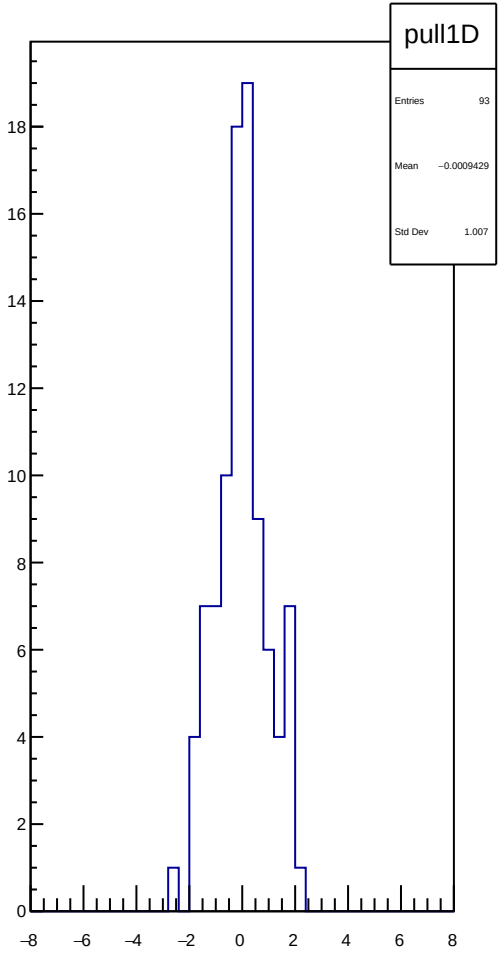

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.439e+04 / 92
p0 3211 ± 2.423
4200
4000
3800
3600
3400
3200
3000
2800

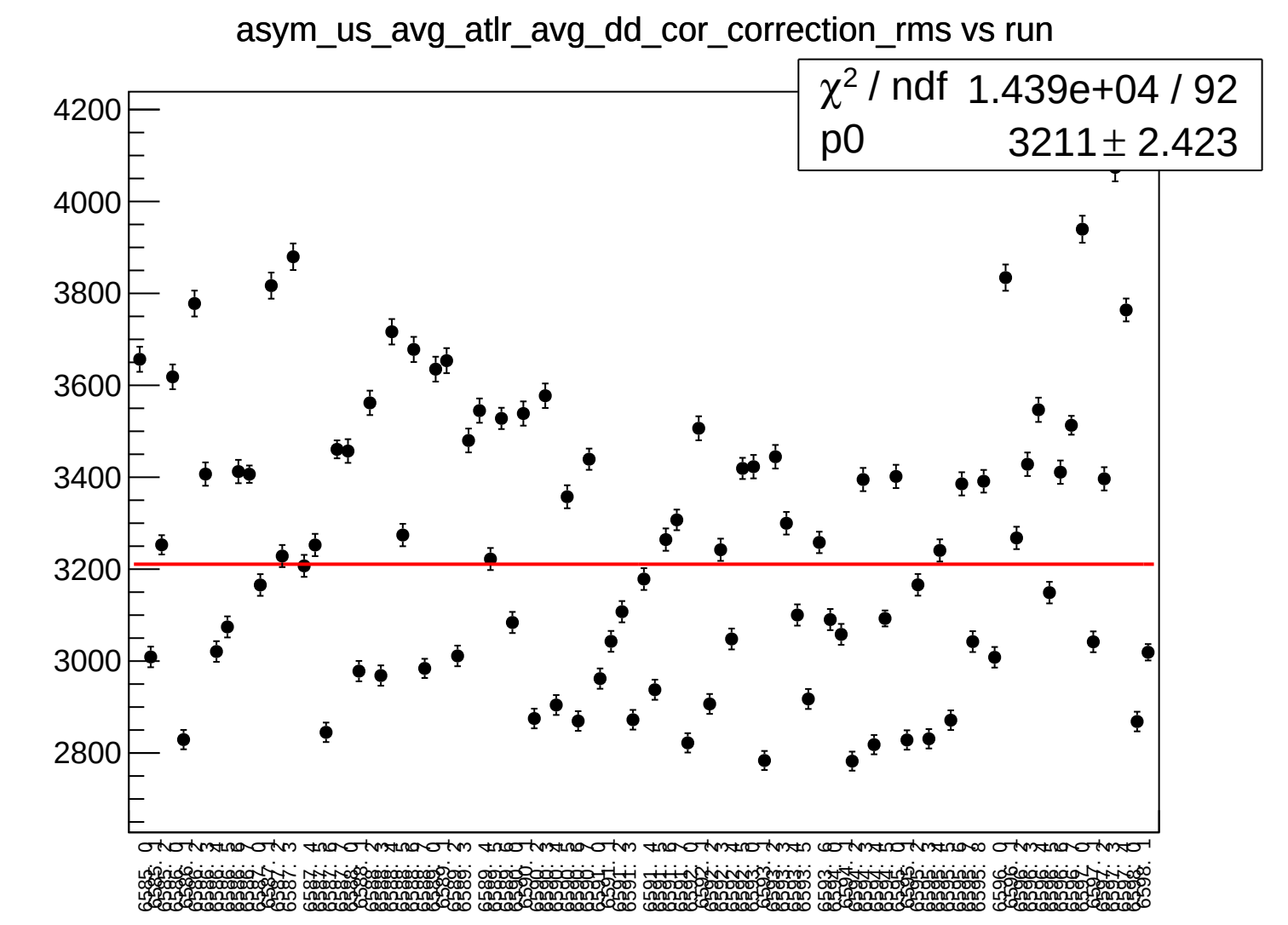

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 101.6 / 92
p0 936.5 ± 1254
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −2133
Std Dev 0
3
2
1
0
−1
−2

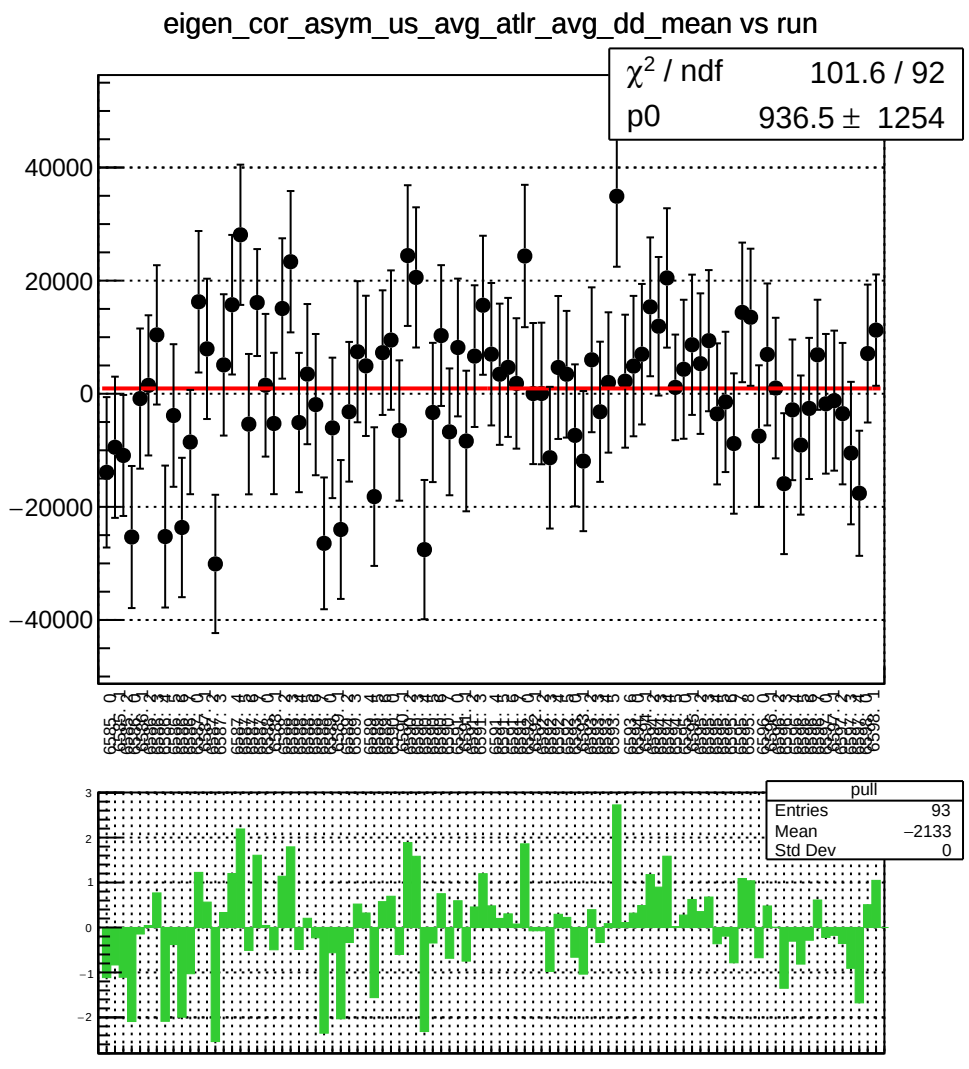

pull1D
Entries 93
Mean −0.001786
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

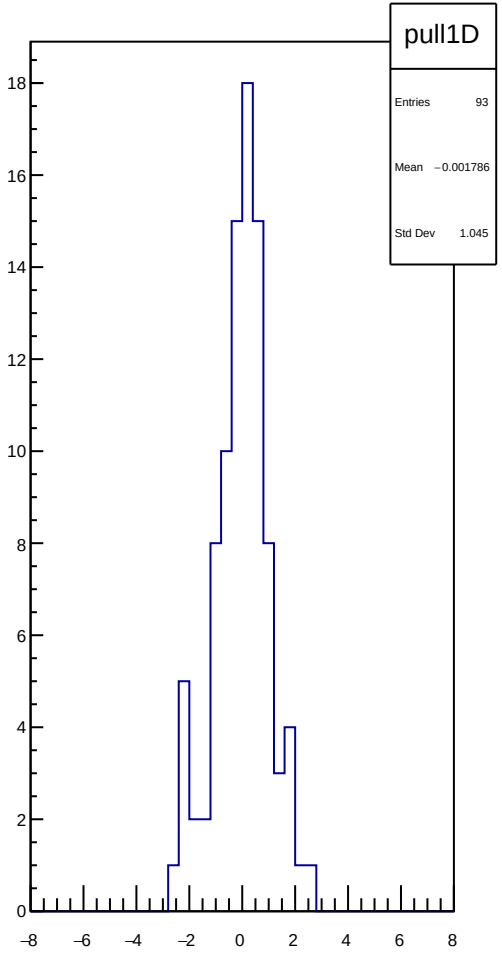

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 202.4 / 92
p0 1179 ± 0.8864
1280
1260
1240
1220
1200
1180
1160
1140

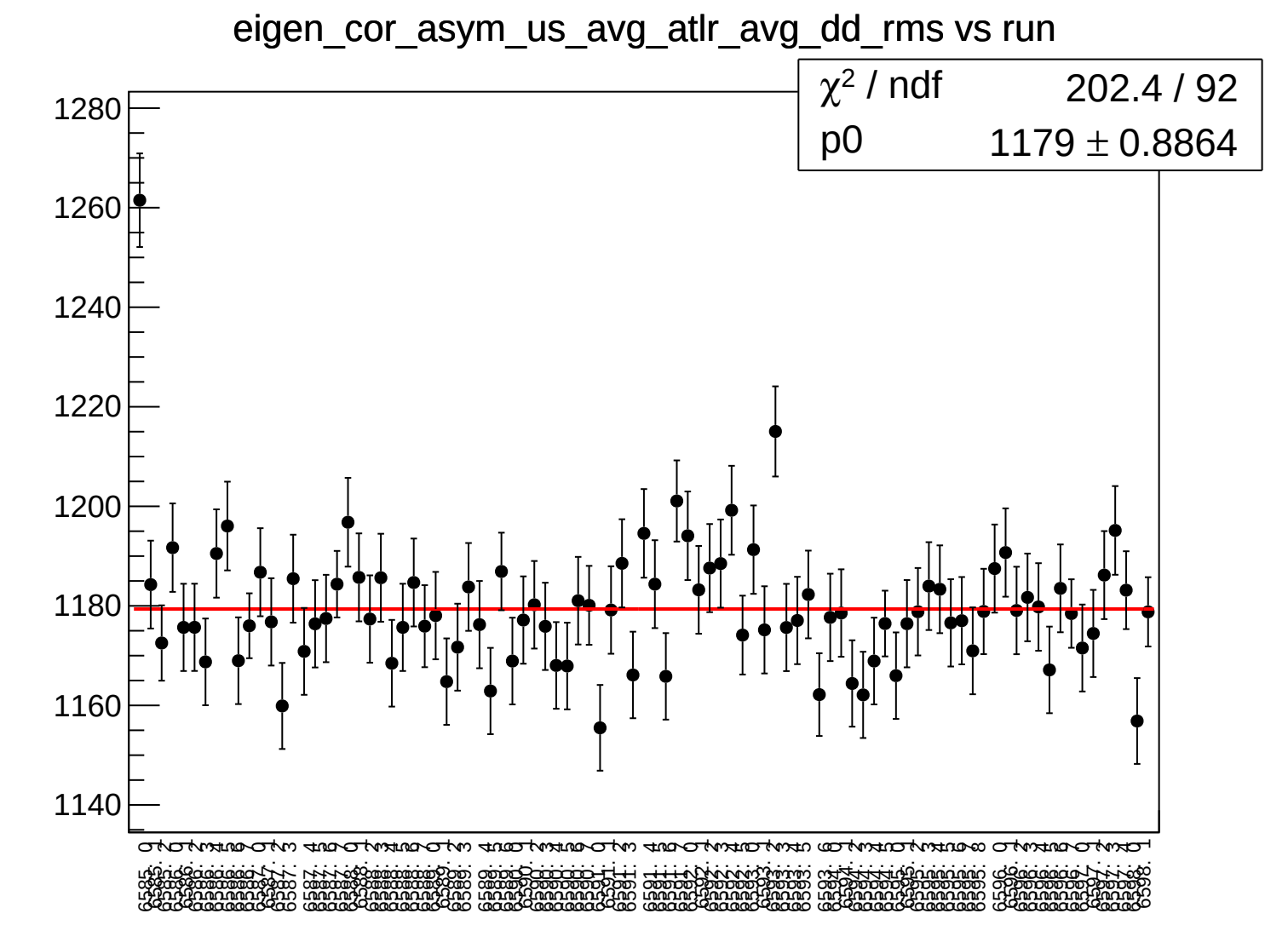

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 94.22 / 92
p0 −1725 ± 3427
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 213.9
Std Dev 307.6
2
1
0
−1
−2
−3

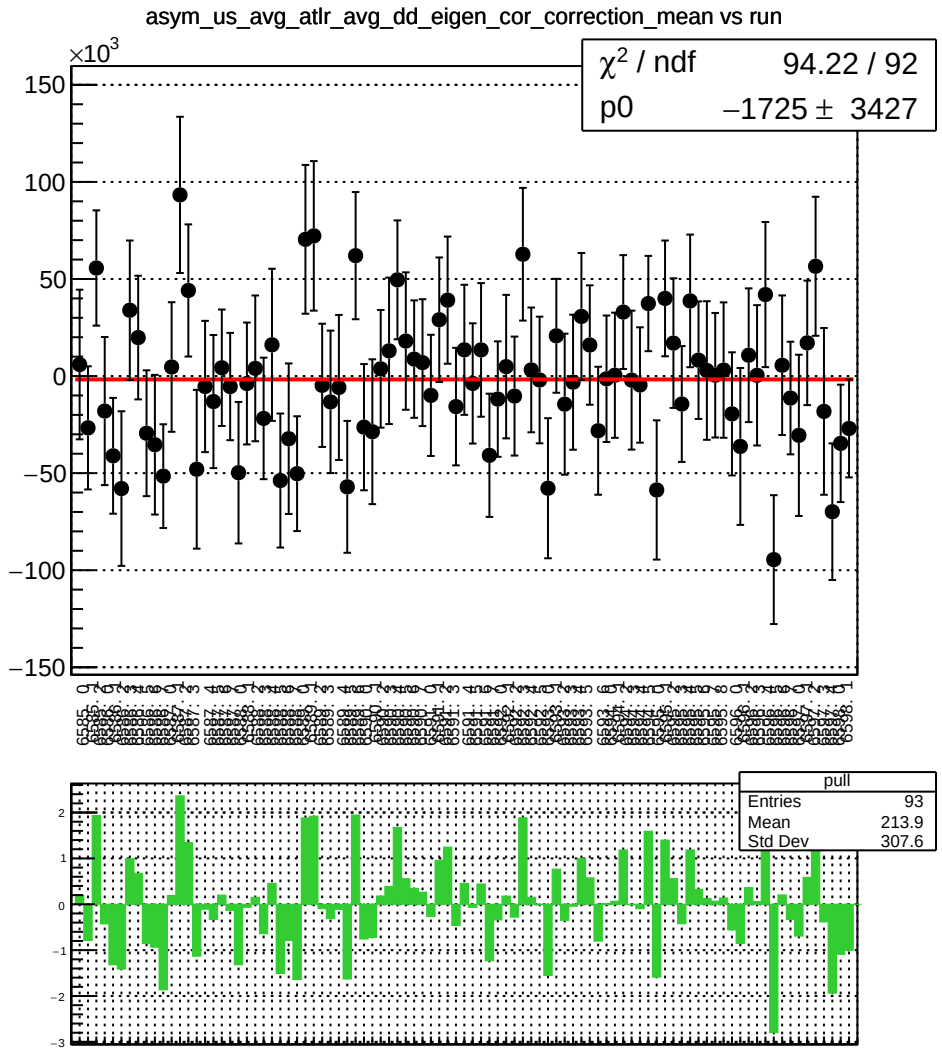

pull1D
Entries 93
Mean −0.0009429
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

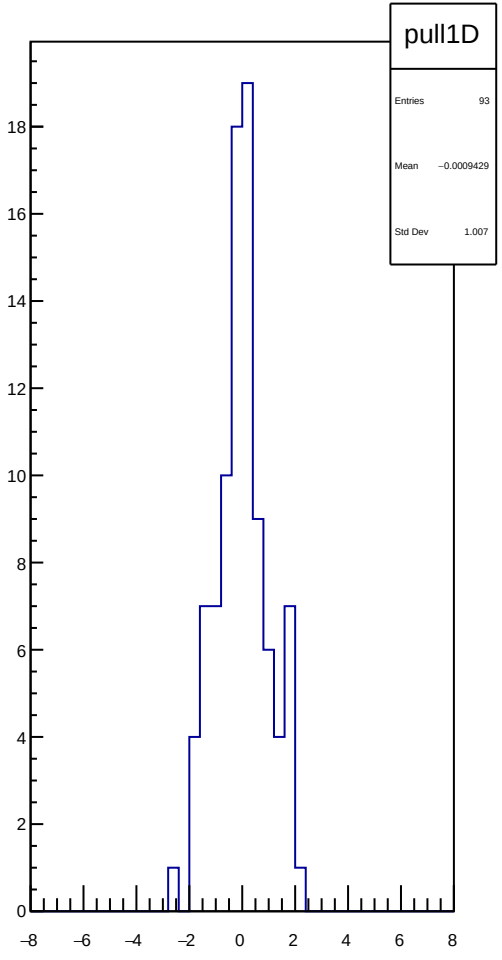

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.439e+04 / 92
p0 3211 ± 2.423
4200
4000
3800
3600
3400
3200
3000
2800

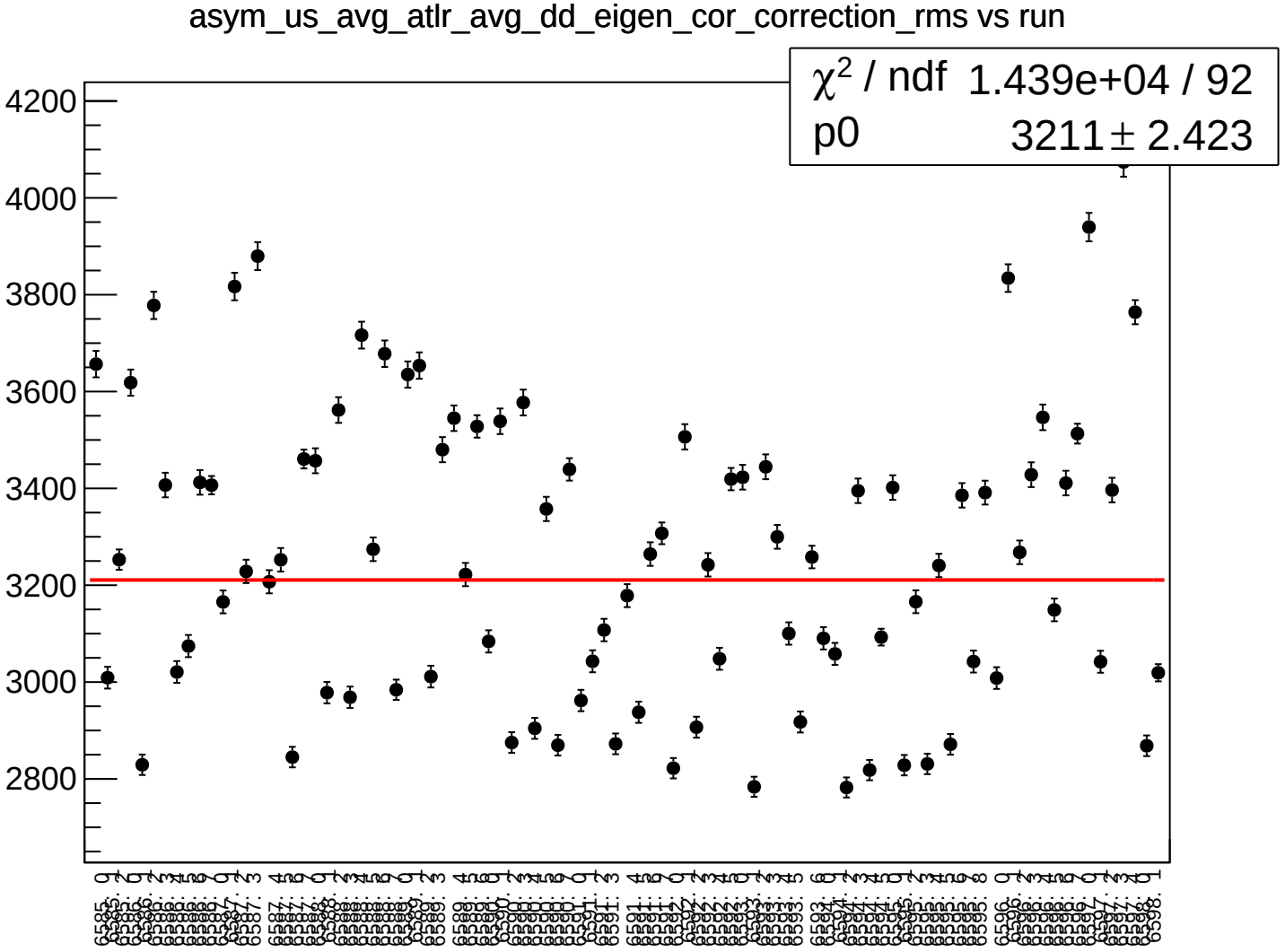

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 101.6 / 92
p0 936.5 ± 1254
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −2133
Std Dev 0
3
2
1
0
−1
−2

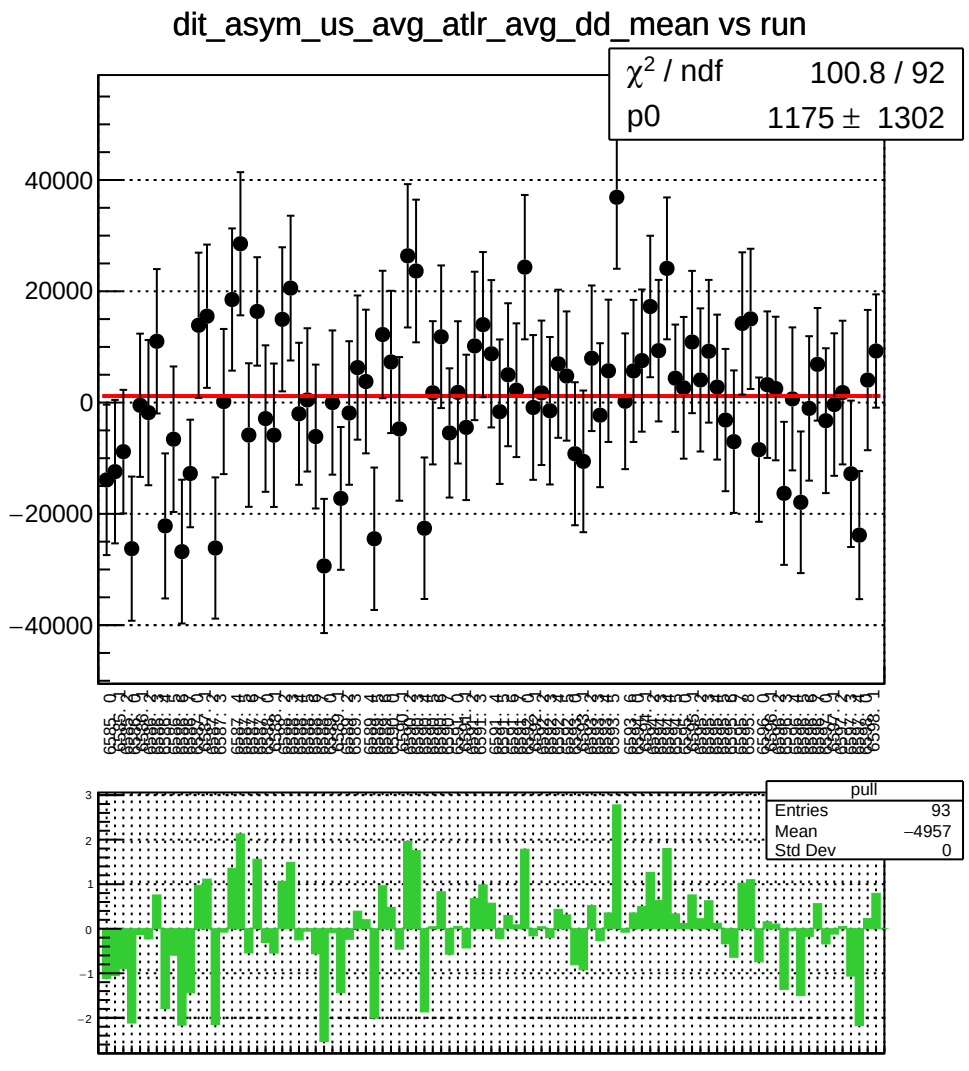

pull1D
Entries 93
Mean −0.001786
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

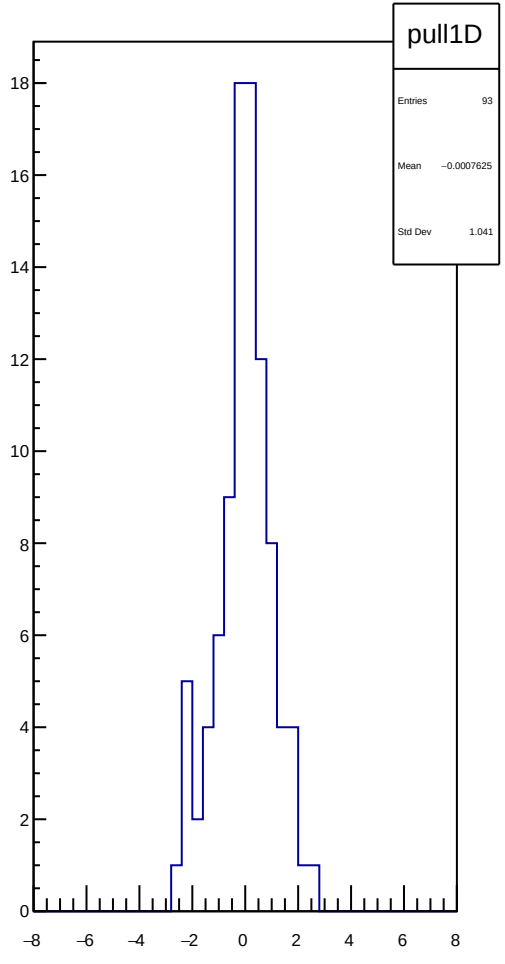

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 202.4 / 92
p0 1179 ± 0.8864
1280
1260
1240
1220
1200
1180
1160
1140

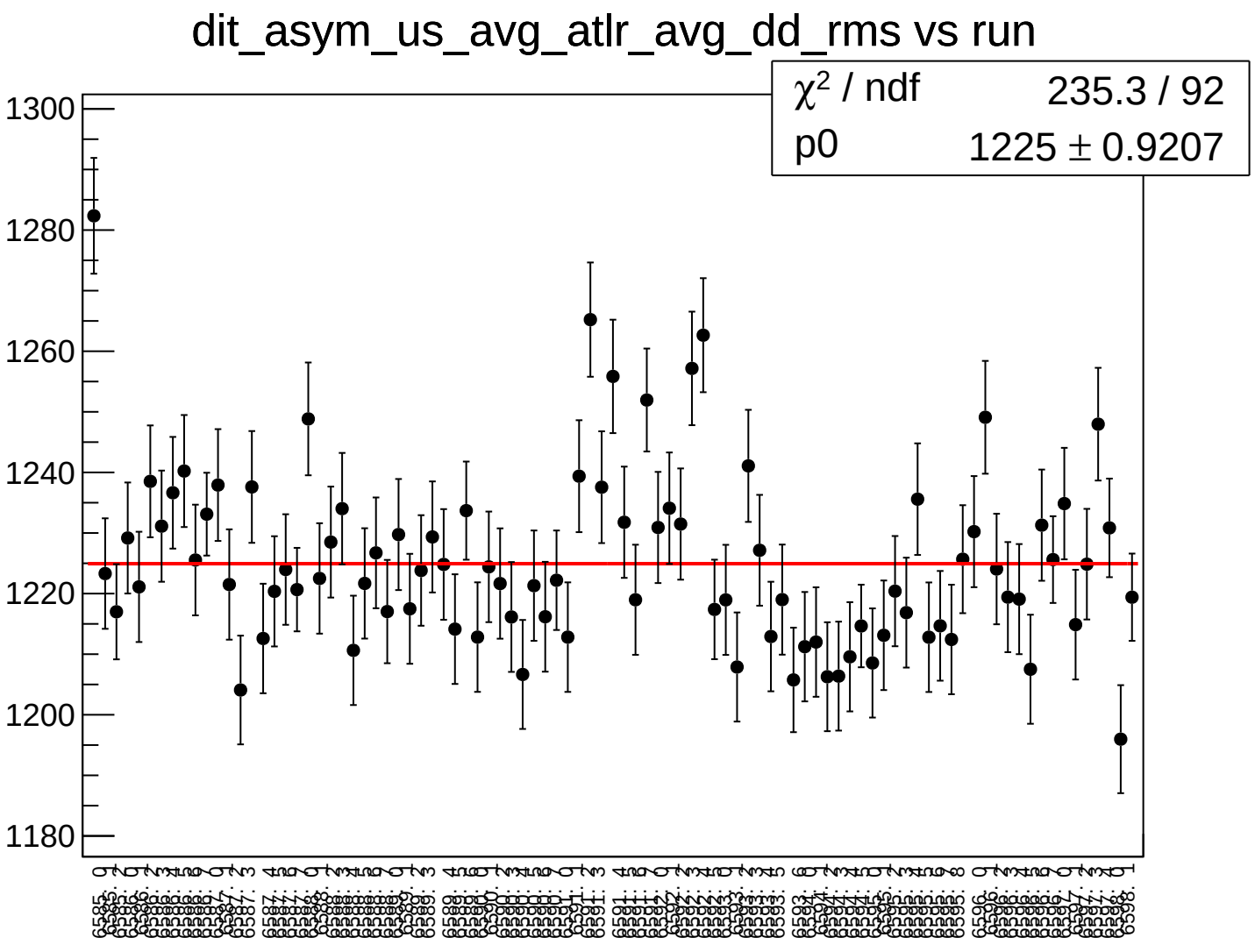

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.22 / 92
p0 −1725 ± 3427
pull
Entries 93
Mean 213.9
Std Dev 307.6

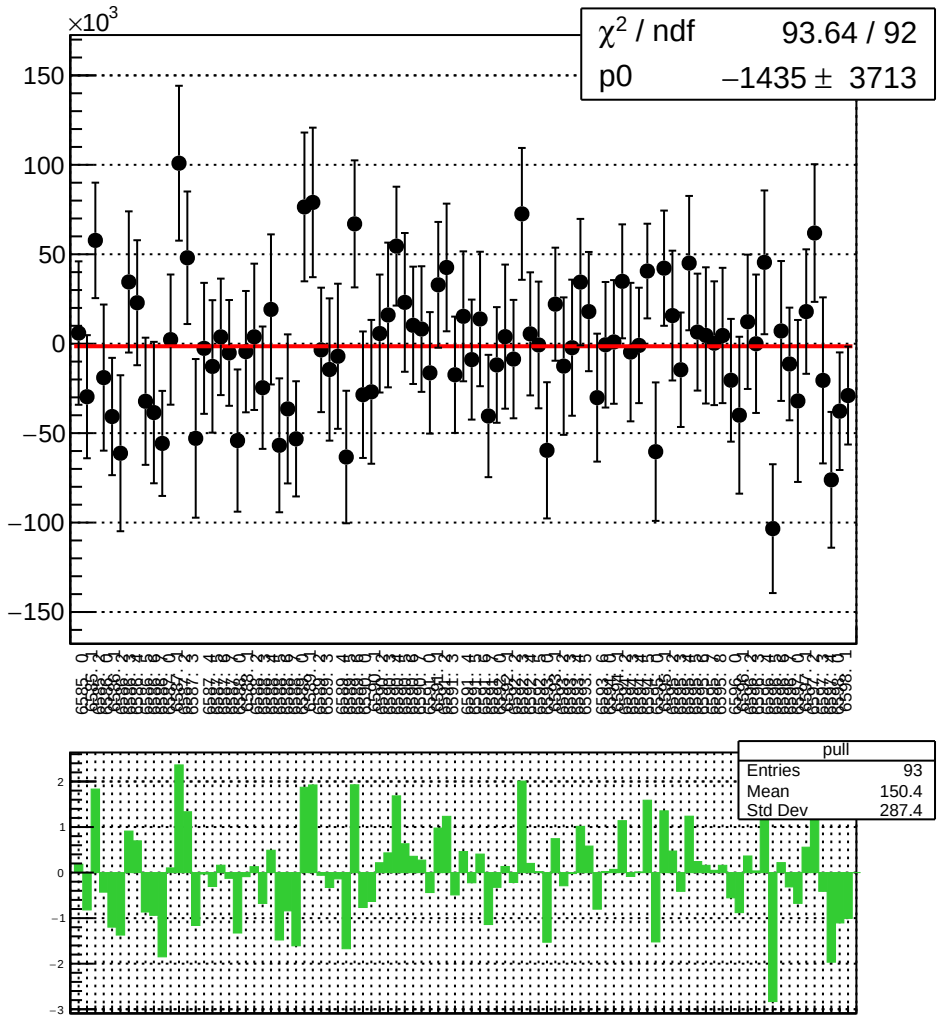

pull1D
Entries 93
Mean −0.0009429
Std Dev 1.007

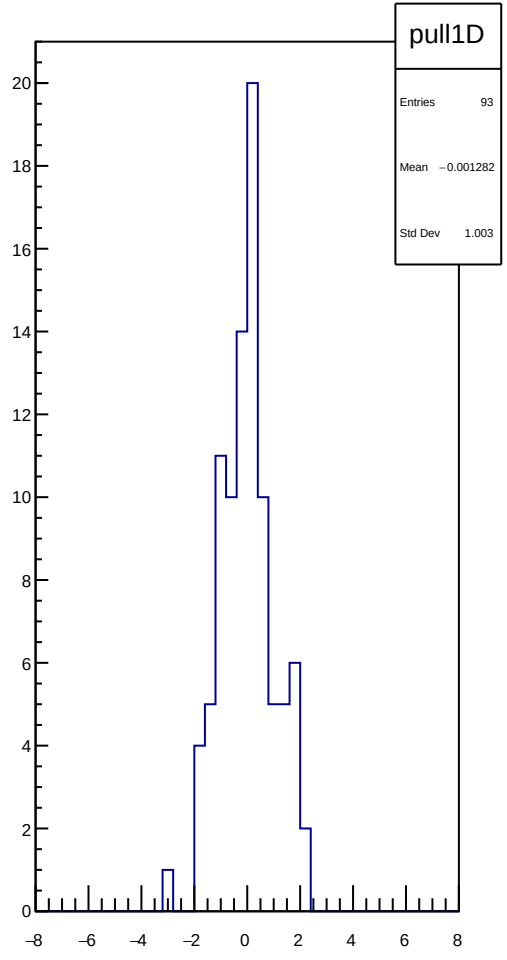

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.439e+04 / 92
p0 3211 ± 2.423
4200
4000
3800
3600
3400
3200
3000
2800

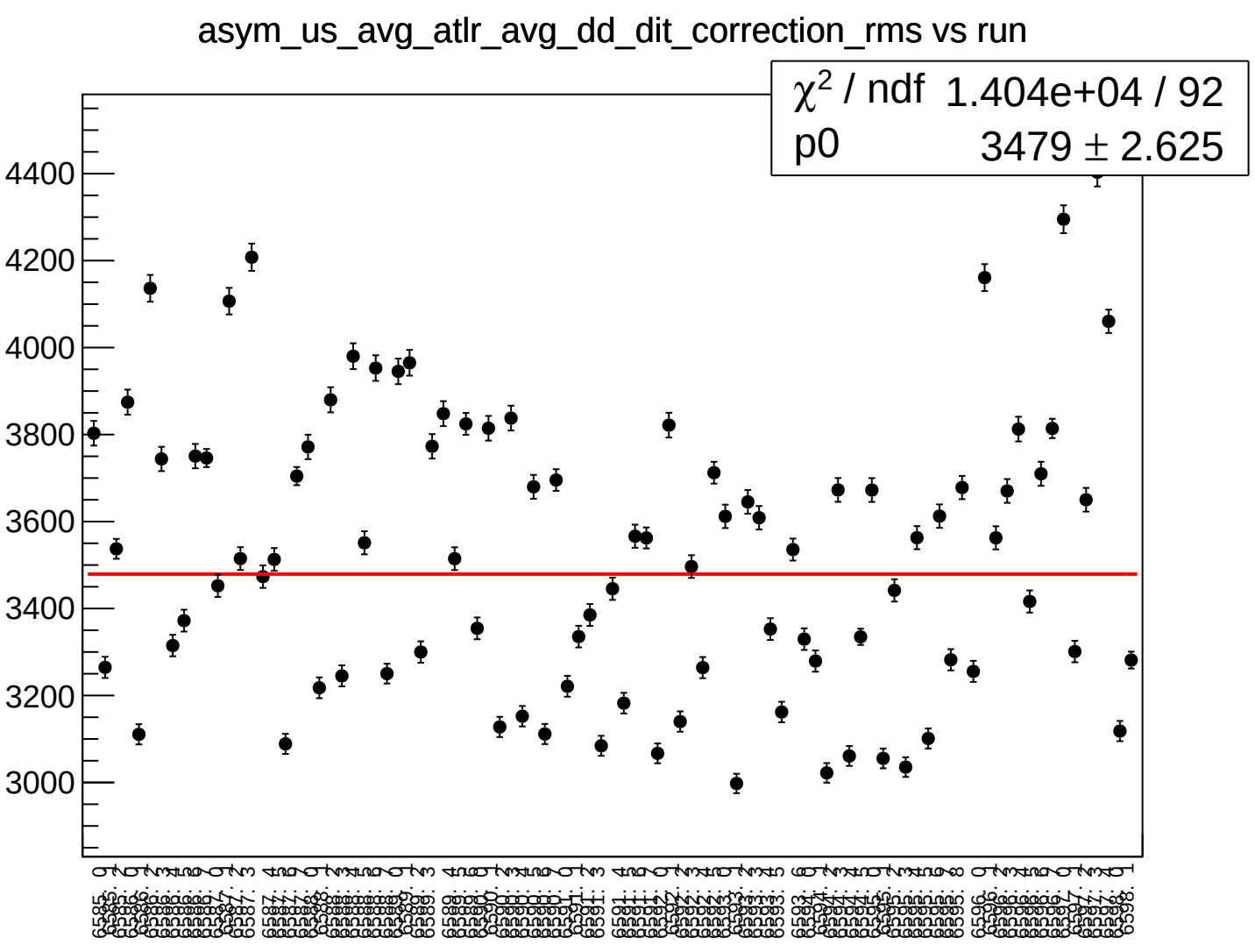

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 100.8 / 92
p0 1175 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4957
Std Dev 0
3
2
1
0
−1
−2

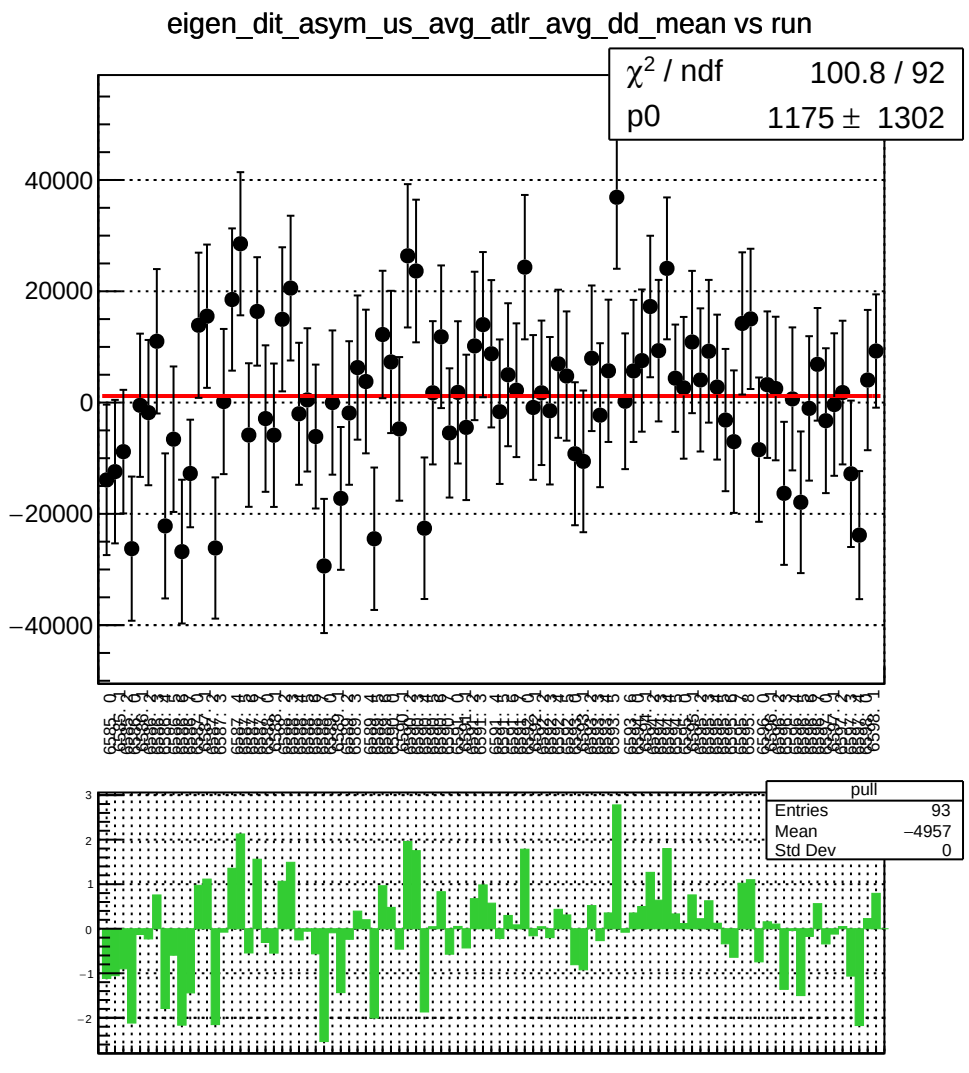

pull1D
Entries 93
Mean −0.0007625
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

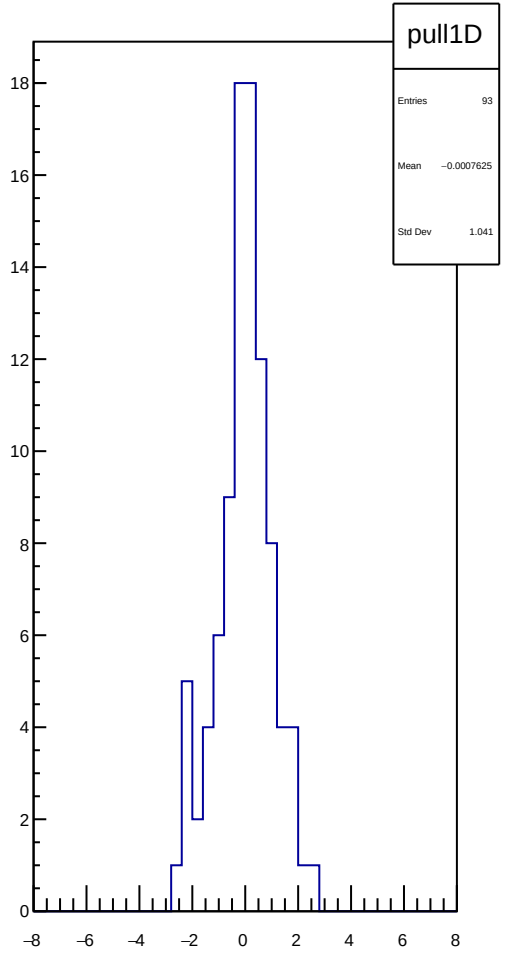

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 235.3 / 92
p0 1225 ± 0.9207
1300
1280
1260
1240
1220
1200
1180

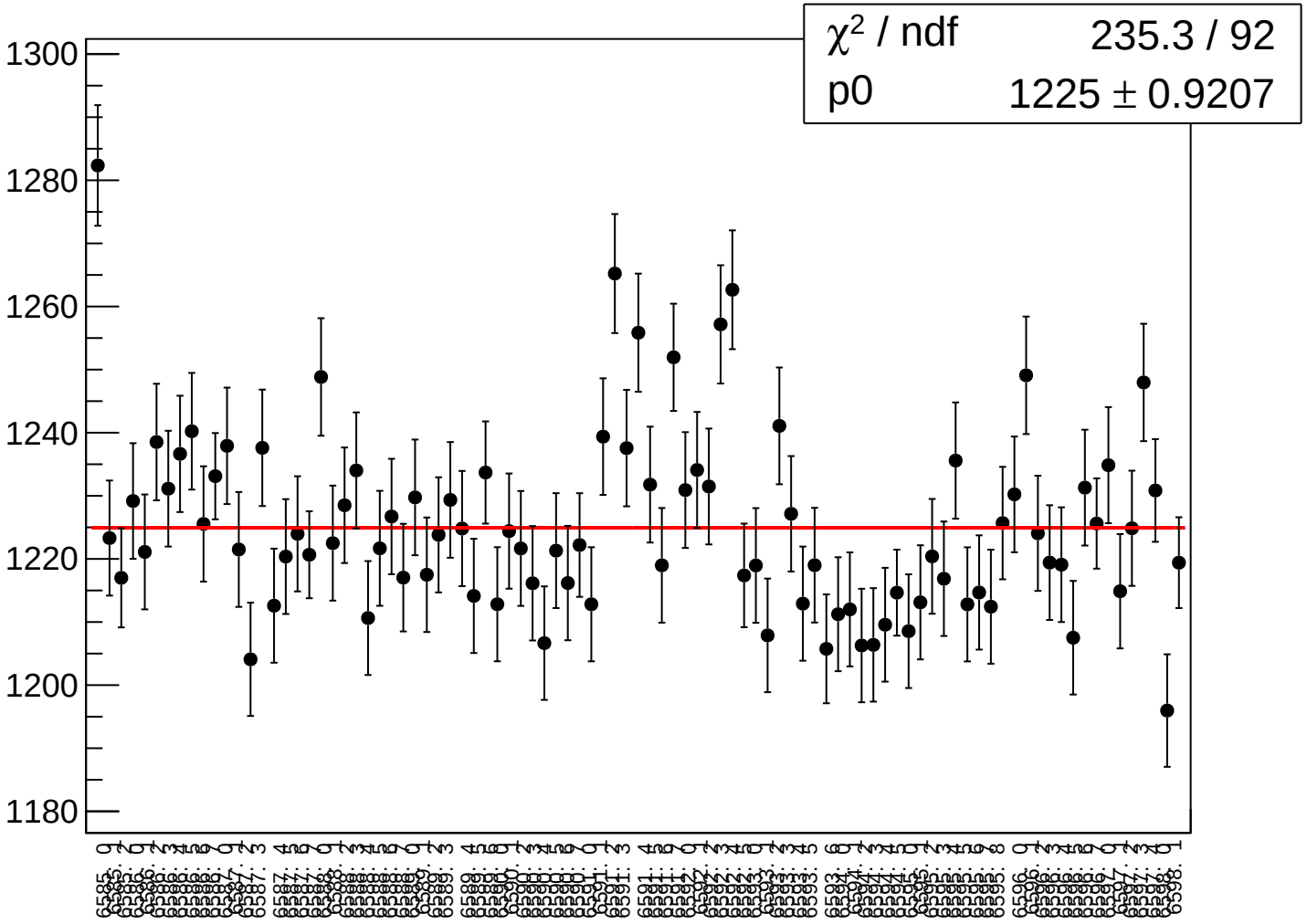

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 93.64 / 92
p0 −1435 ± 3713
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 150.4
Std Dev 287.4
2
1
0
−1
−2
−3

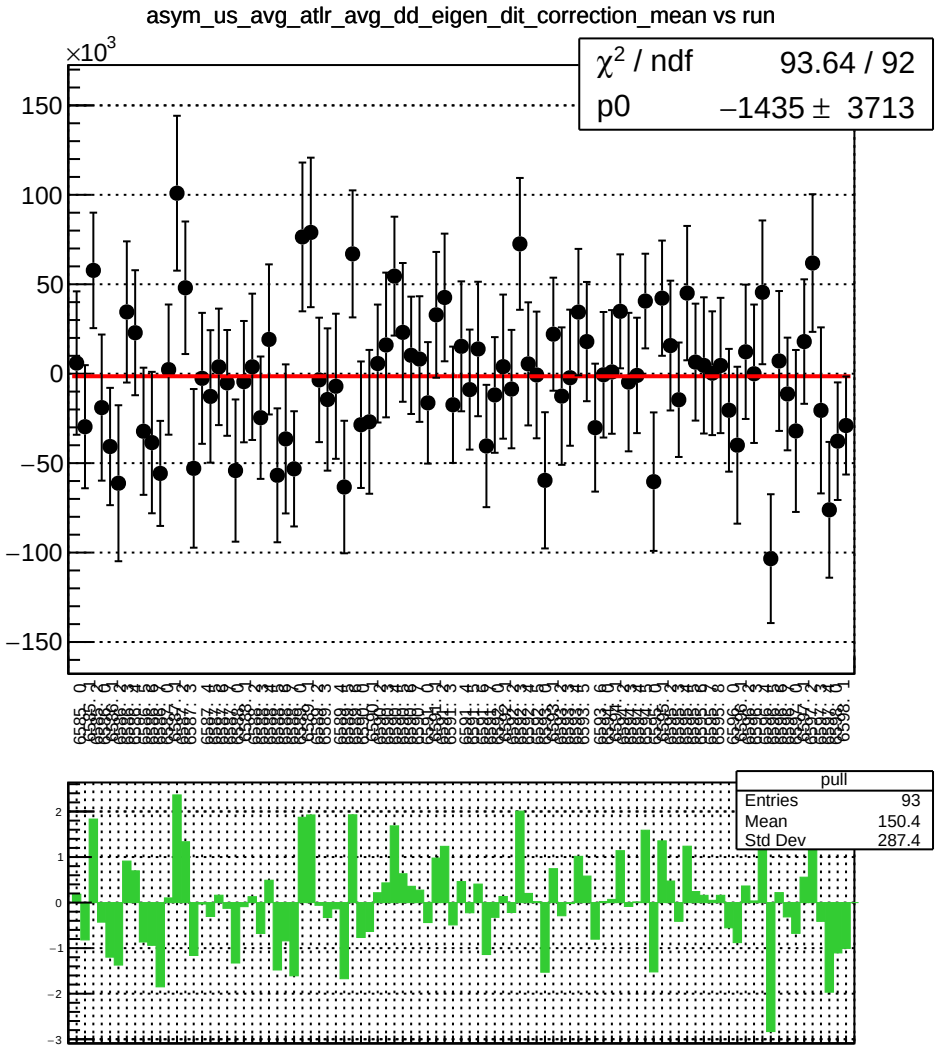

pull1D
Entries 93
Mean −0.001282
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

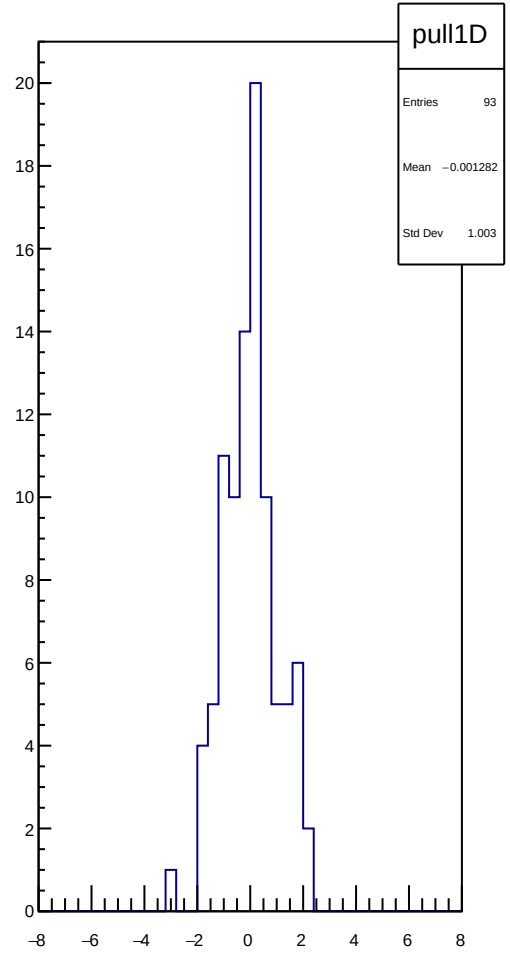

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.404e+04 / 92
p0 3479 ± 2.625
4400
4200
4000
3800
3600
3400
3200
3000

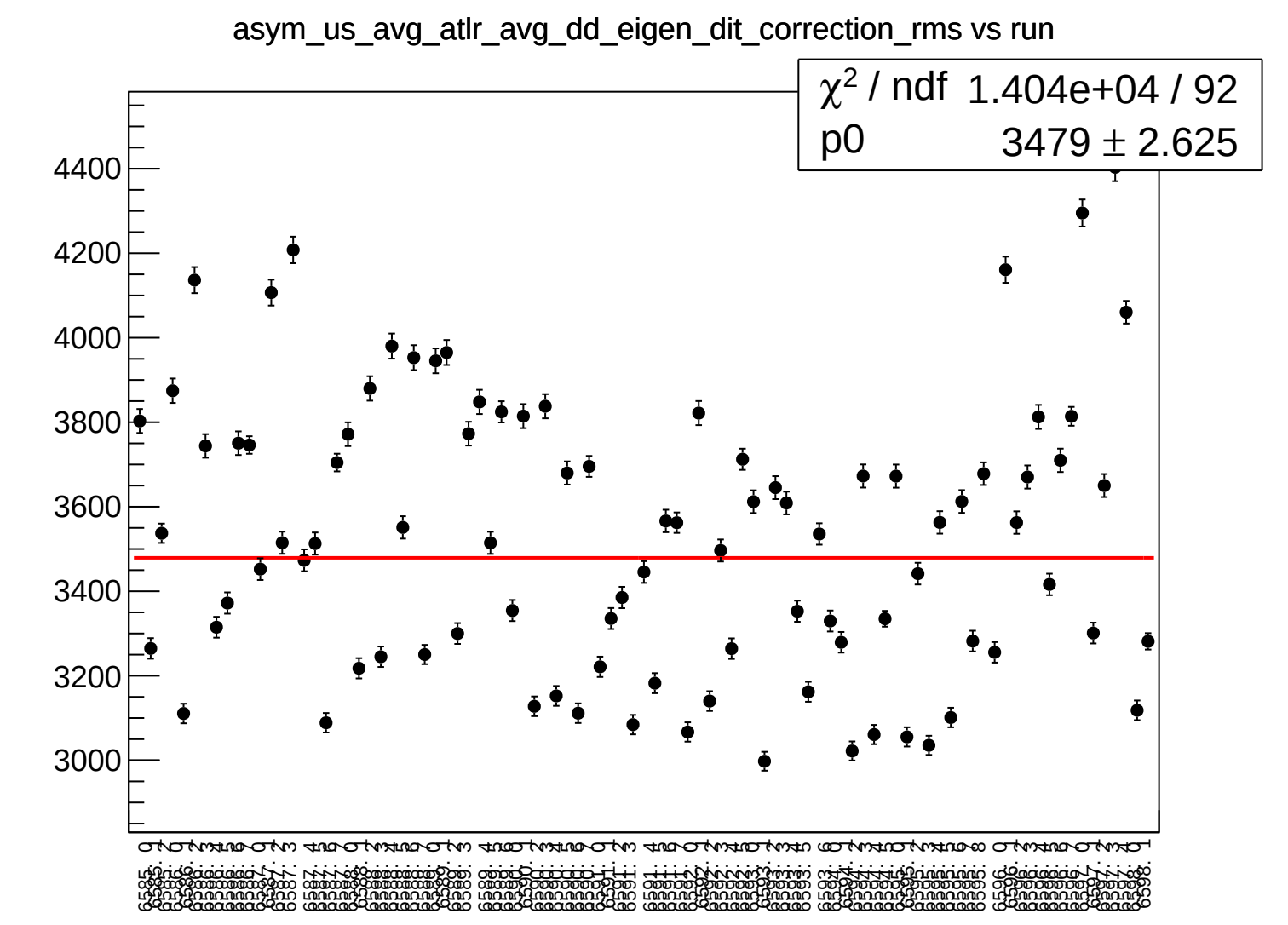

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 100.8 / 92
p0 1175 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4957
Std Dev 0
3
2
1
0
−1
−2

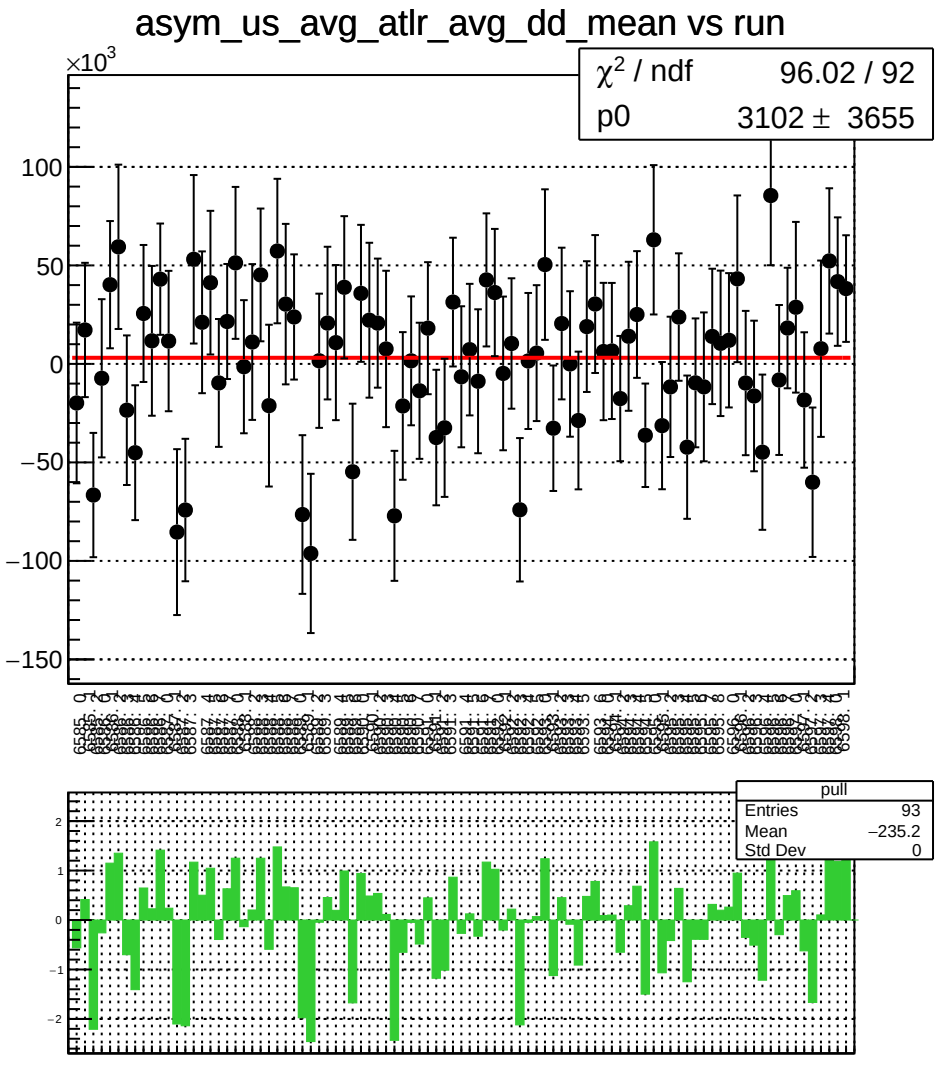

pull1D
Entries 93
Mean −0.0007625
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

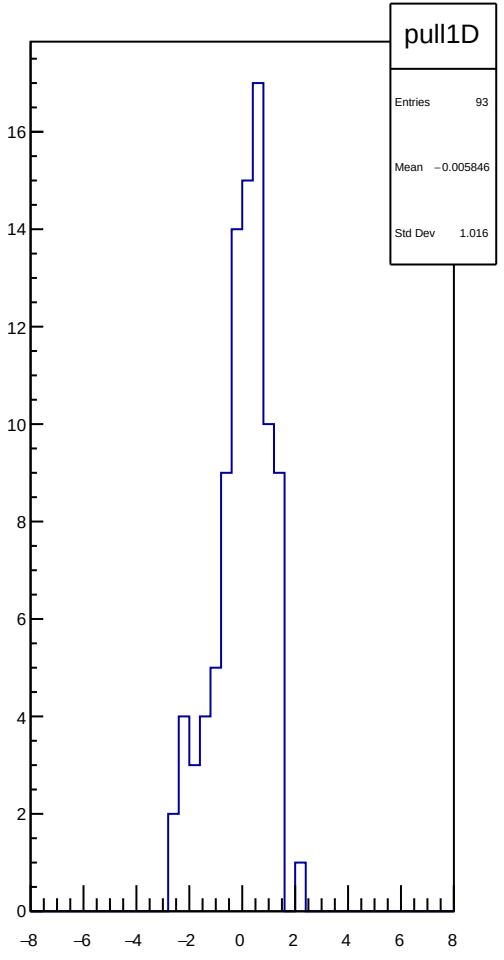

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 235.3 / 92
p0 1225 ± 0.9207
1300
1280
1260
1240
1220
1200
1180

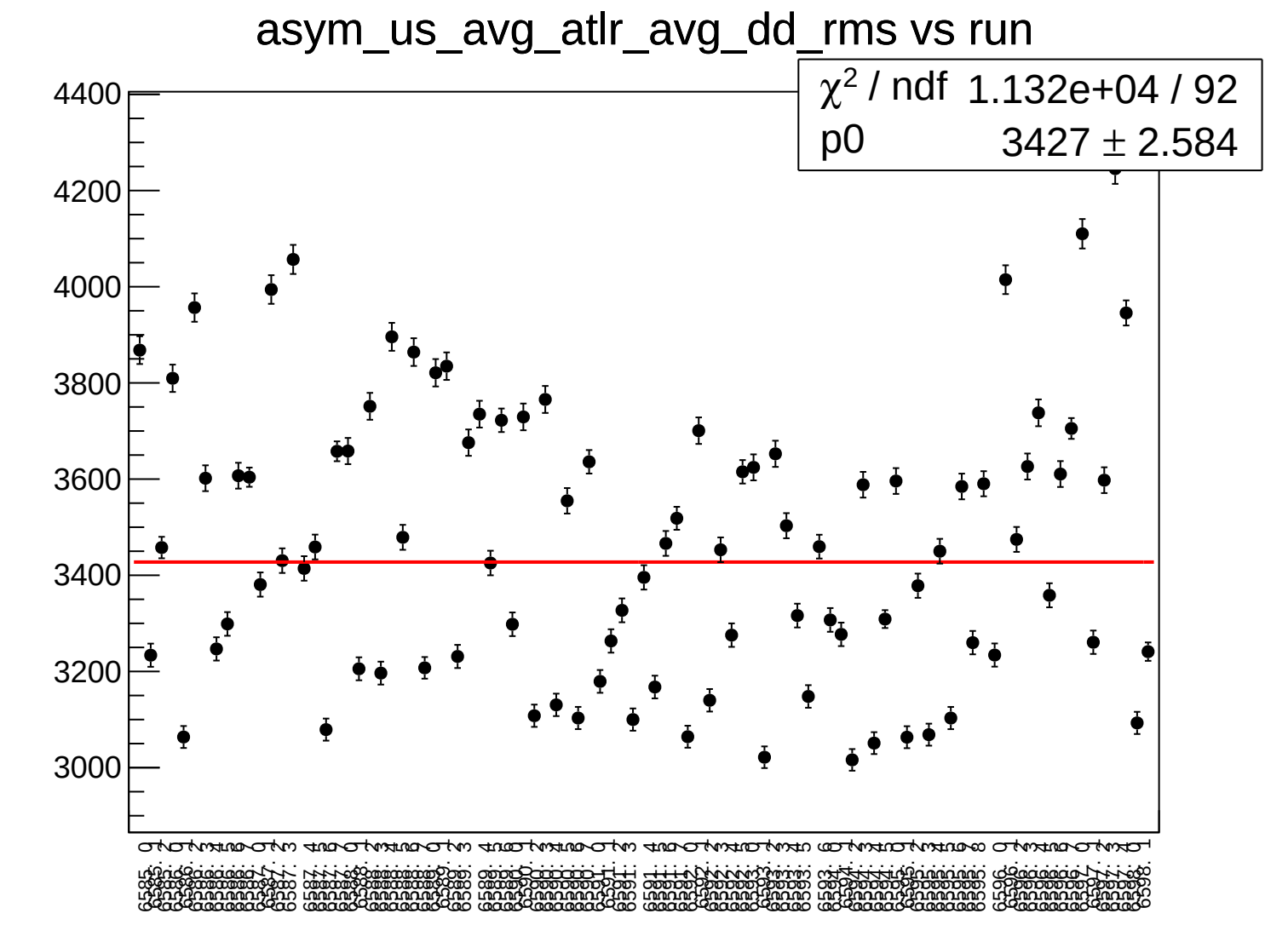

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.64 / 92
p0 −1435 ± 3713
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 150.4
Std Dev 287.4
2
1
0
−1
−2
−3

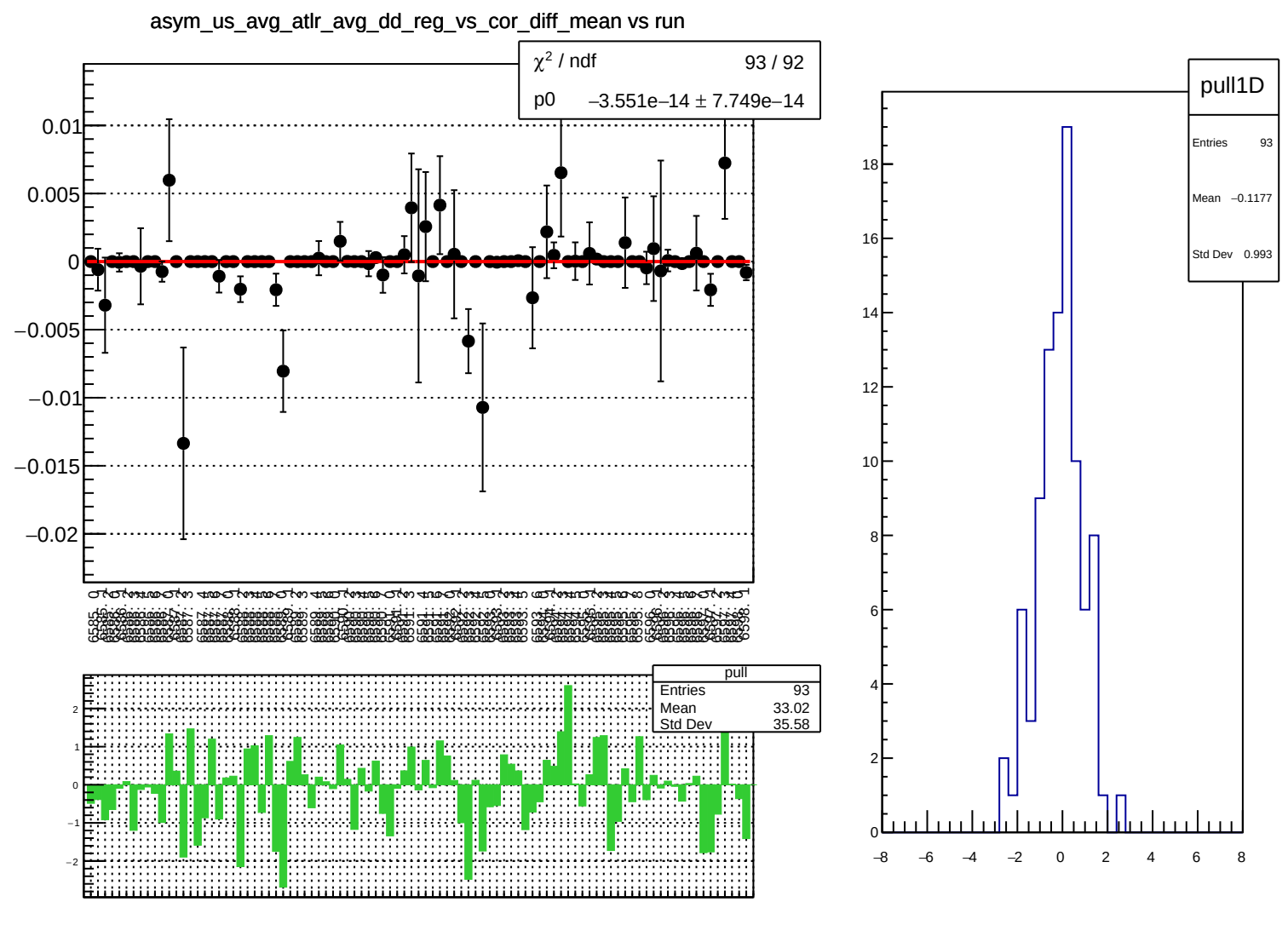

pull1D
Entries 93
Mean −0.001282
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

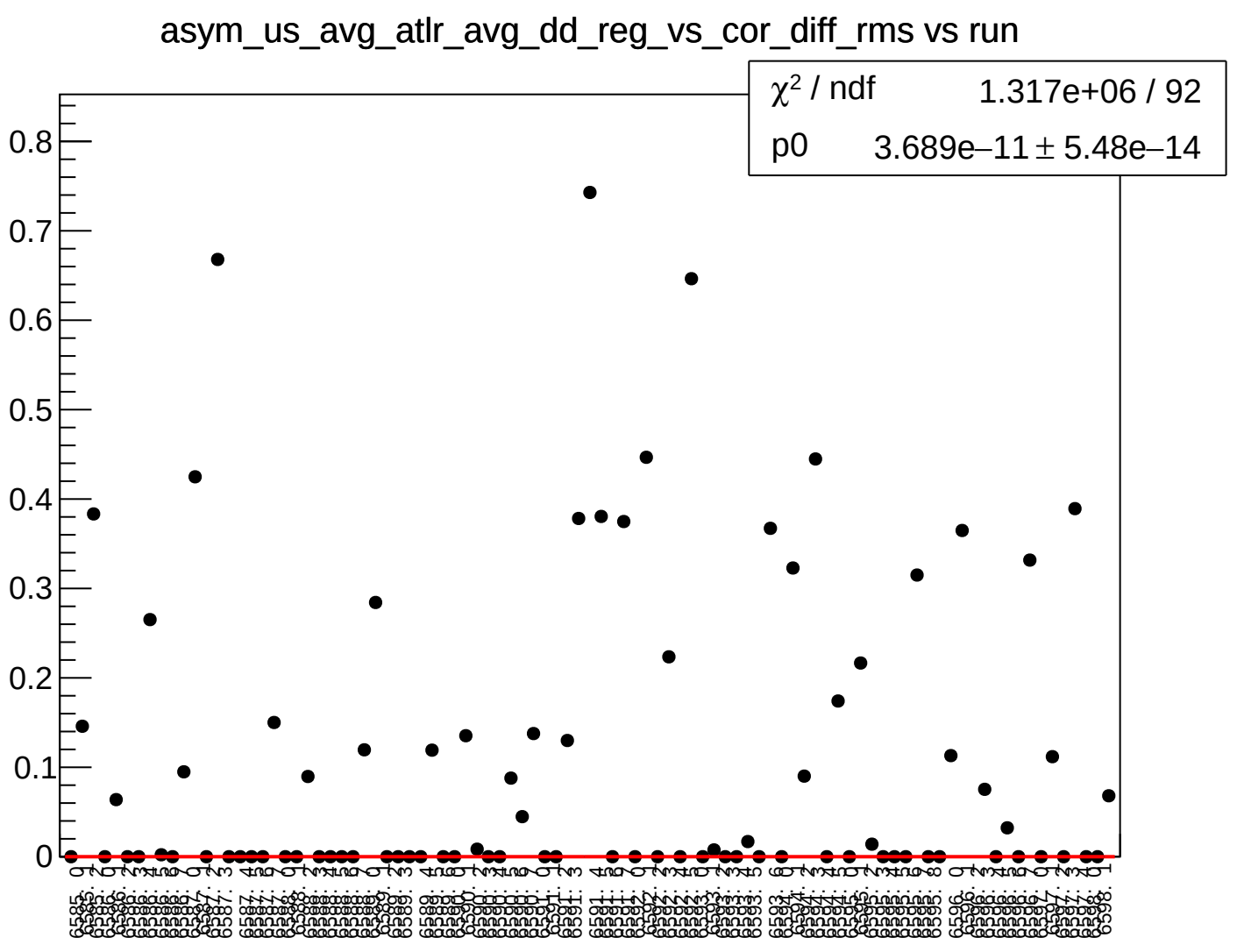

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.404e+04 / 92
p0 3479 ± 2.625
4400
4200
4000
3800
3600
3400
3200
3000

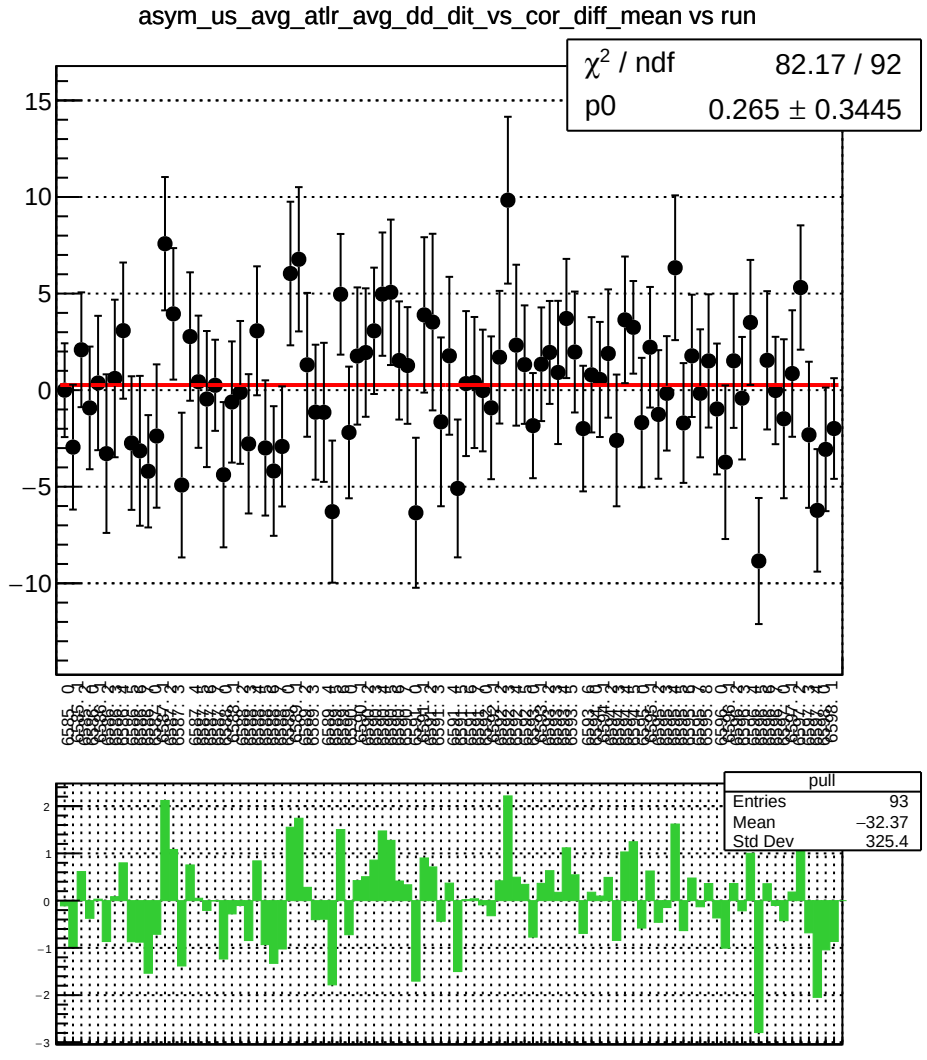

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 96.02 / 92
p0 3102 ± 3655
100
50
0
−50
−100
−150
pull
Entries 93
Mean −235.2
Std Dev 0
2
1
0
−1
−2

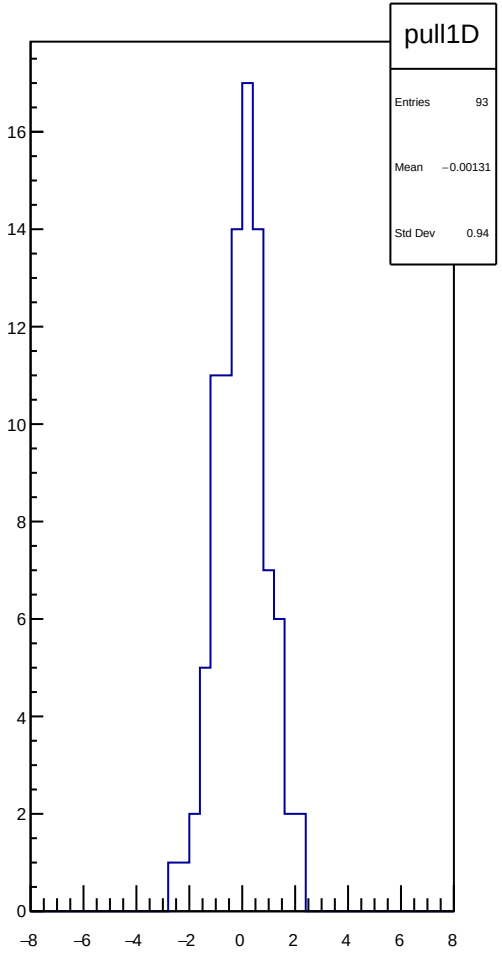

pull1D
Entries 93
Mean −0.005846
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

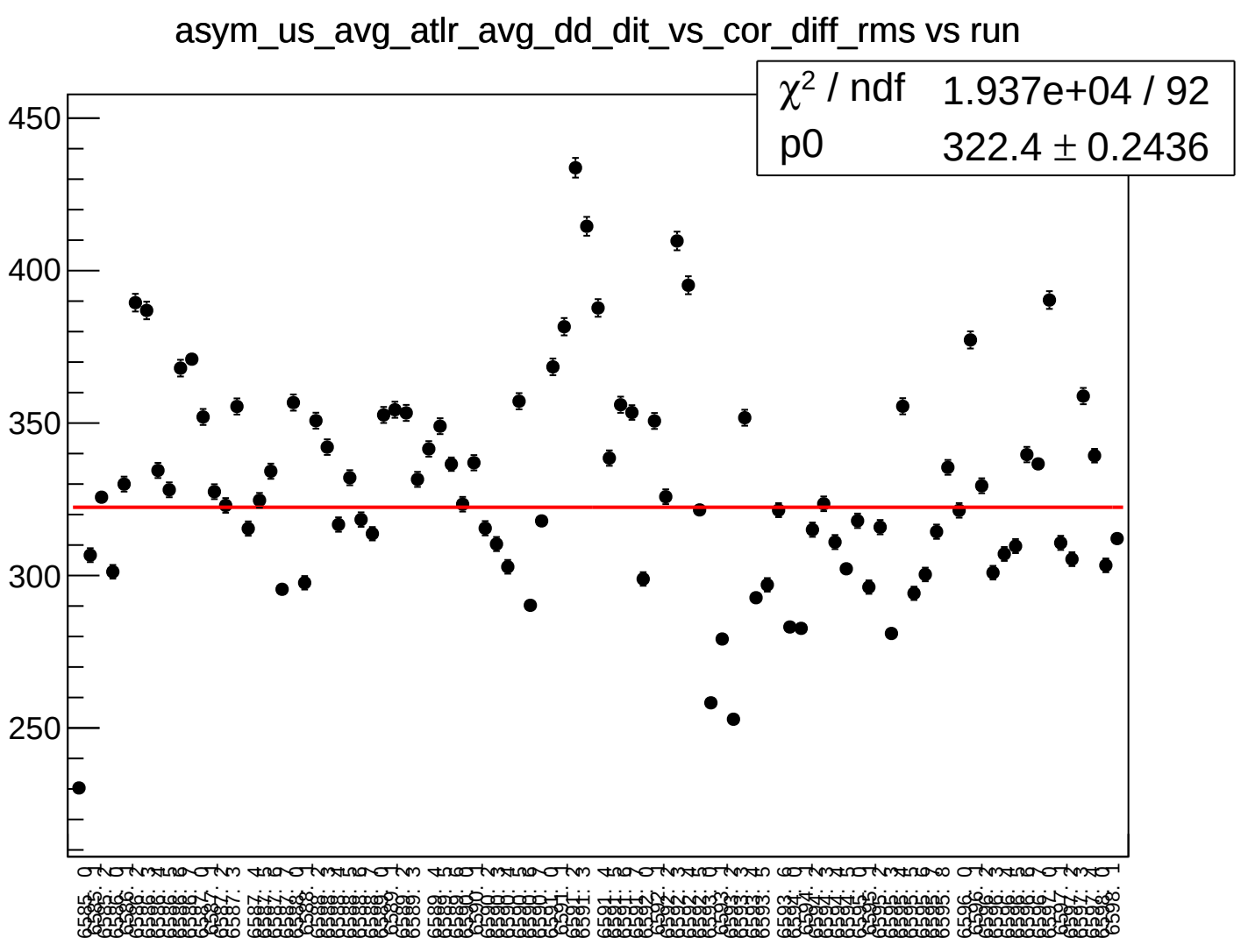

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 1.132e+04 / 92
p0 3427 ± 2.584
4400
4200
4000
3800
3600
3400
3200
3000

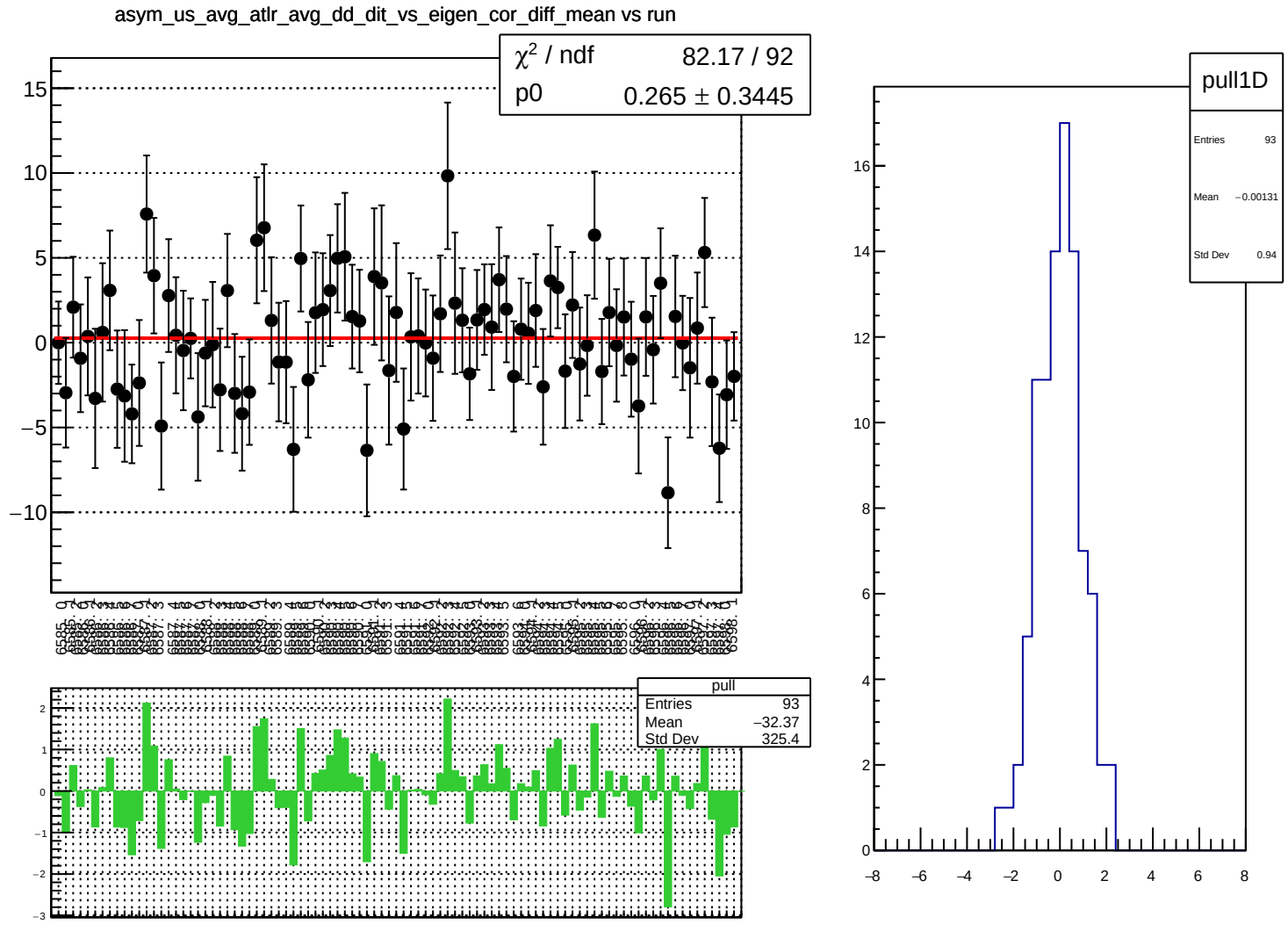

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93 / 92
p0 −3.551e−14 ± 7.749e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 33.02
Std Dev 35.58
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.1177
Std Dev 0.993
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

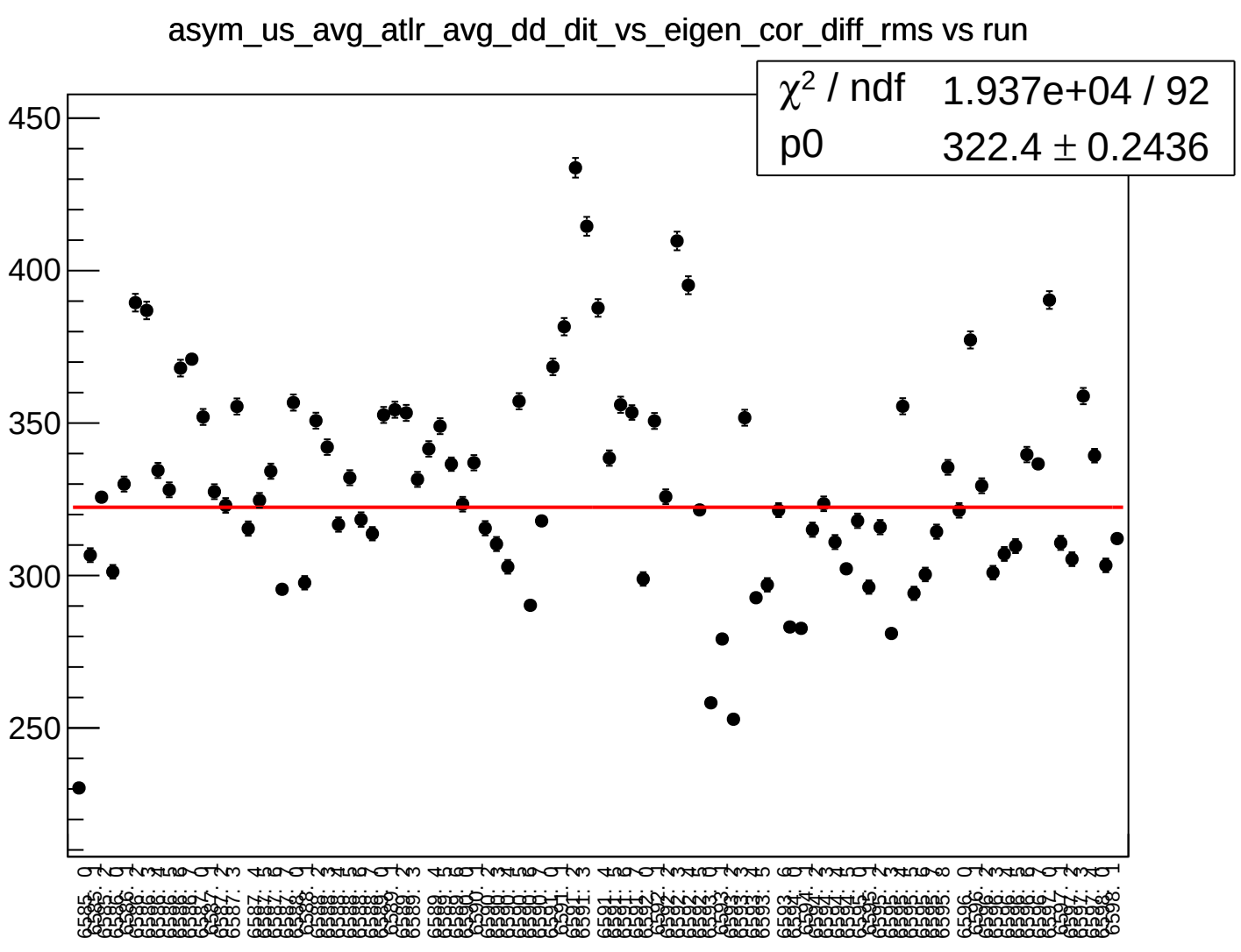

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.317e+06 / 92
p0 3.689e−11 ± 5.48e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

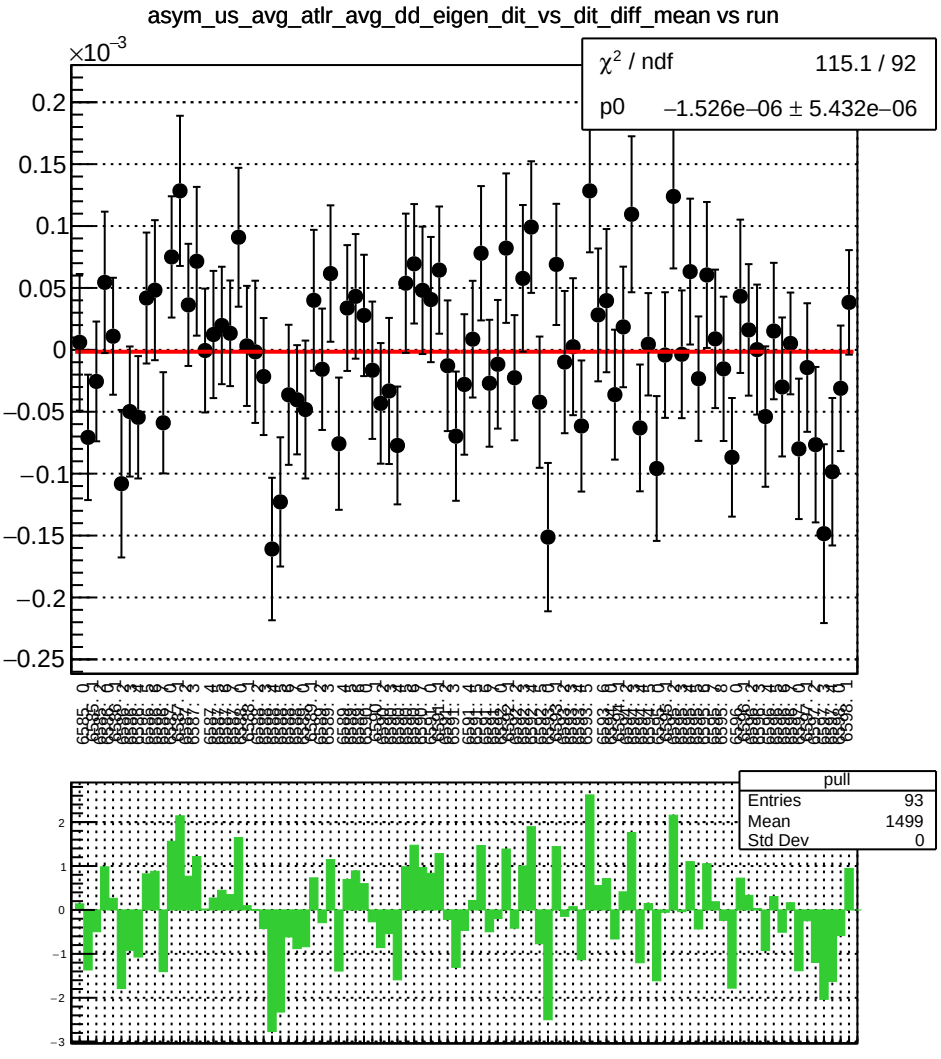

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.17 / 92
p0 0.265 ± 0.3445
15
10
5
0
−5
−10
pull
Entries 93
Mean −32.37
Std Dev 325.4
2
1
0
−1
−2
−3

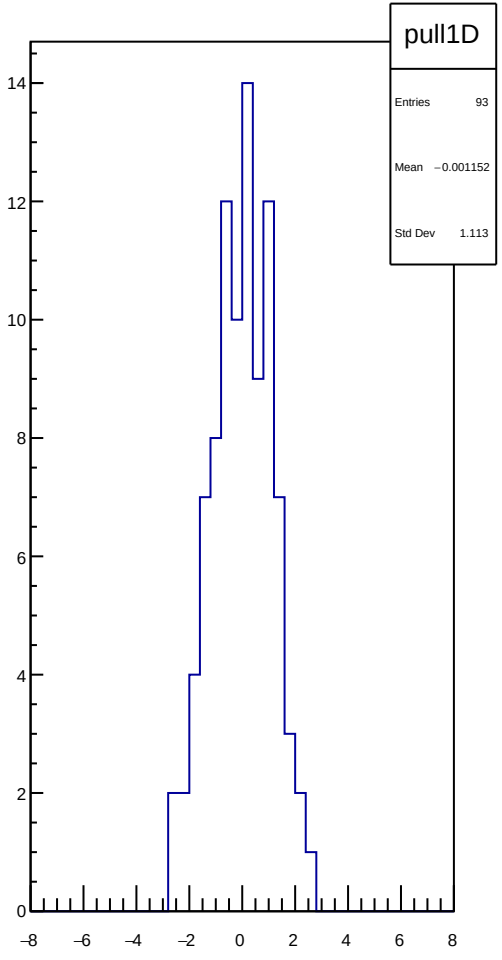

pull1D
Entries 93
Mean −0.00131
Std Dev 0.94
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

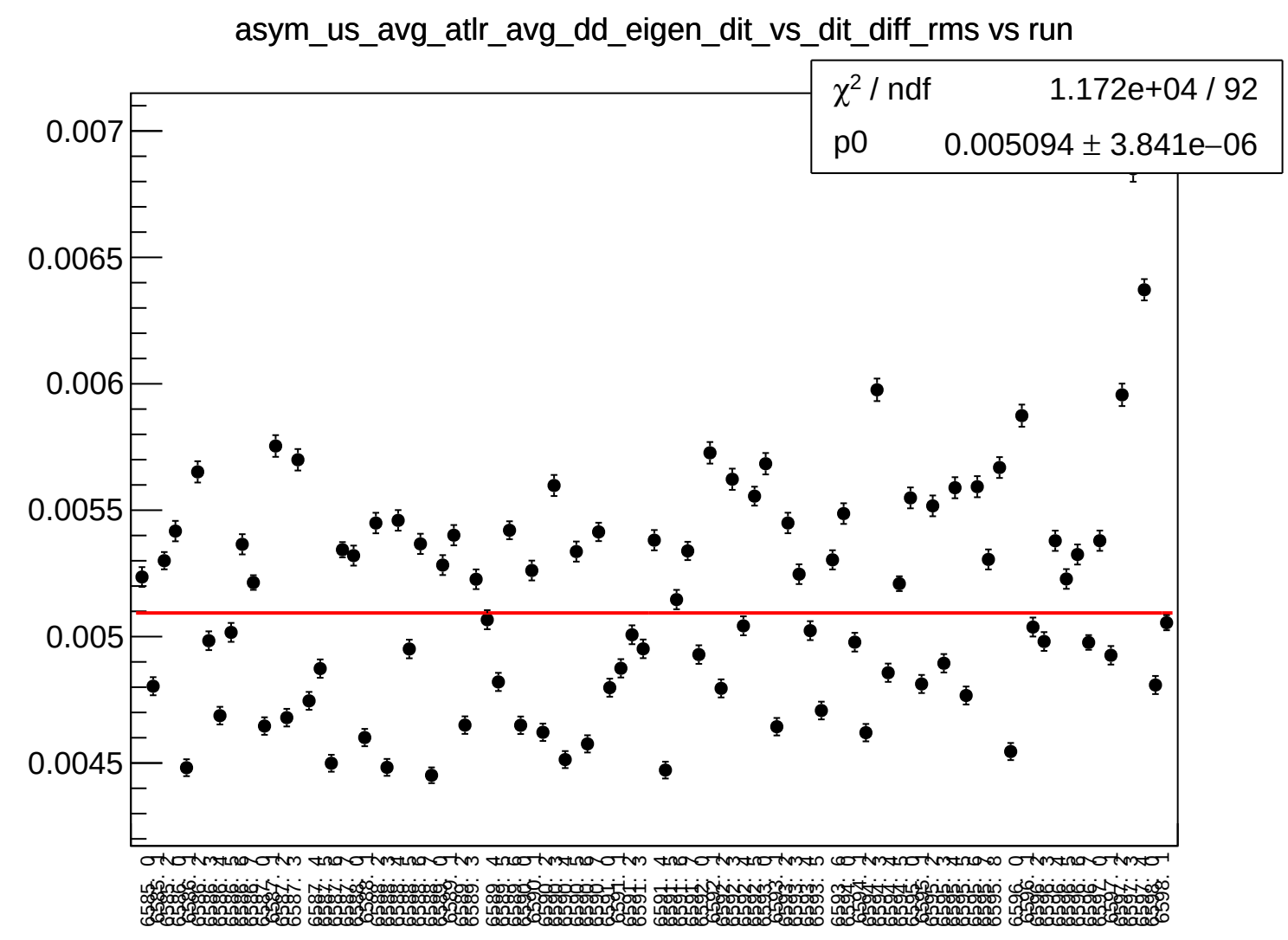

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+04 / 92
p0 322.4 ± 0.2436
450
400
350
300
250

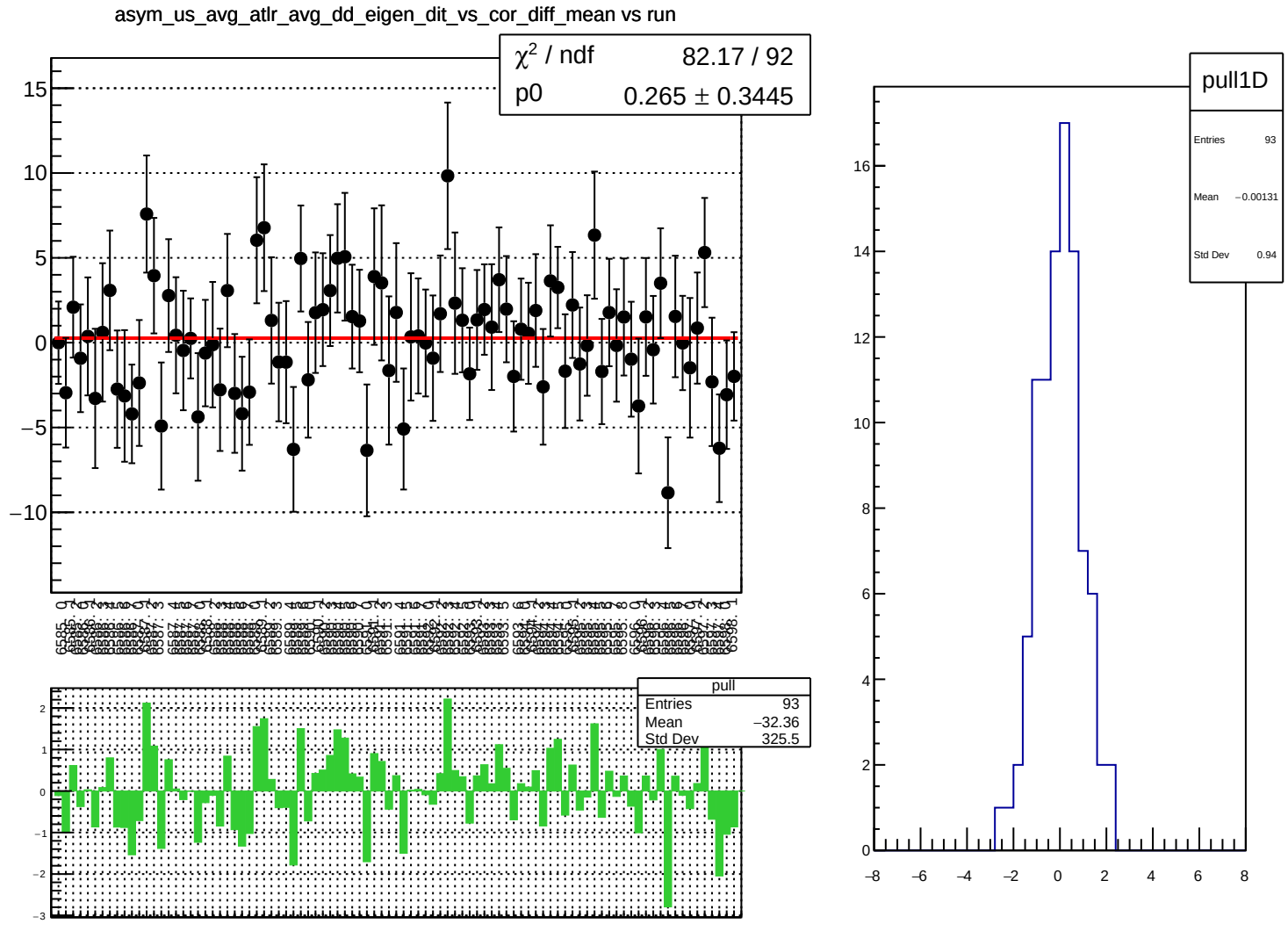

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.17 / 92
p0 0.265 ± 0.3445
pull
Entries 93
Mean −32.37
Std Dev 325.4
pull1D
Entries 93
Mean −0.00131
Std Dev 0.94

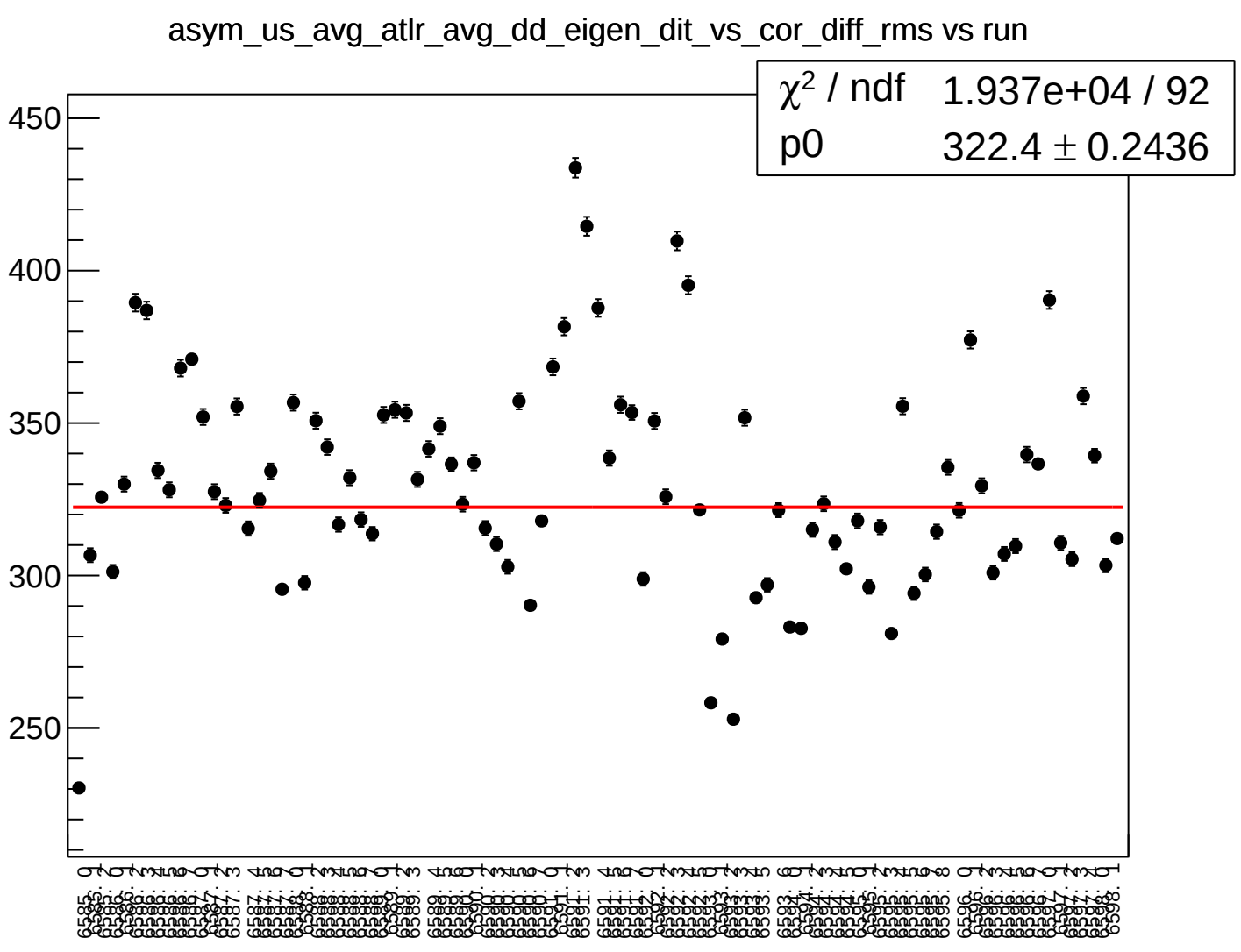

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+04 / 92
p0 322.4 ± 0.2436
450
400
350
300
250

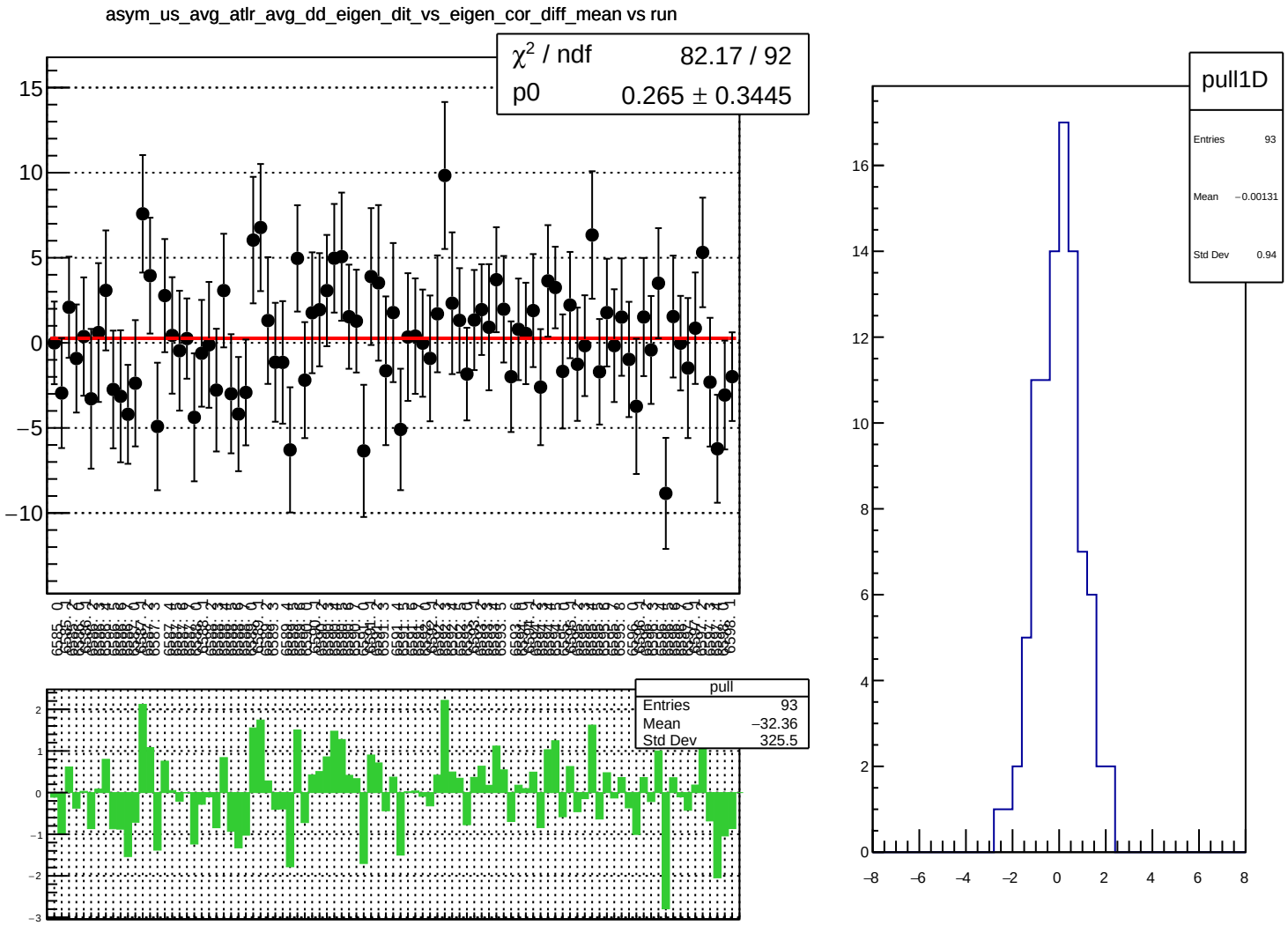

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 115.1 / 92
p0 −1.526e−06 ± 5.432e−06
pull
Entries 93
Mean 1499
Std Dev 0

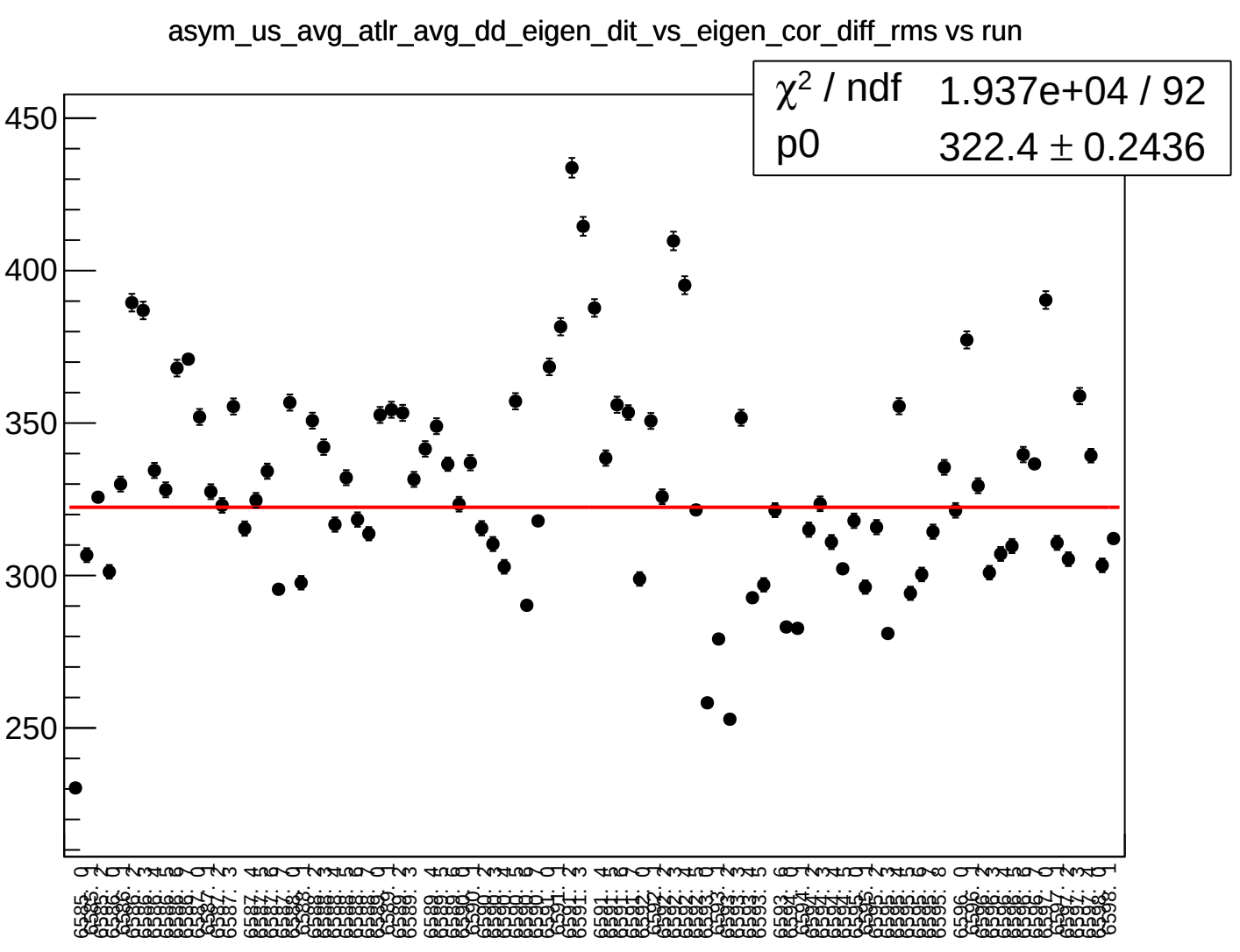

pull1D
Entries 93
Mean −0.001152
Std Dev 1.113

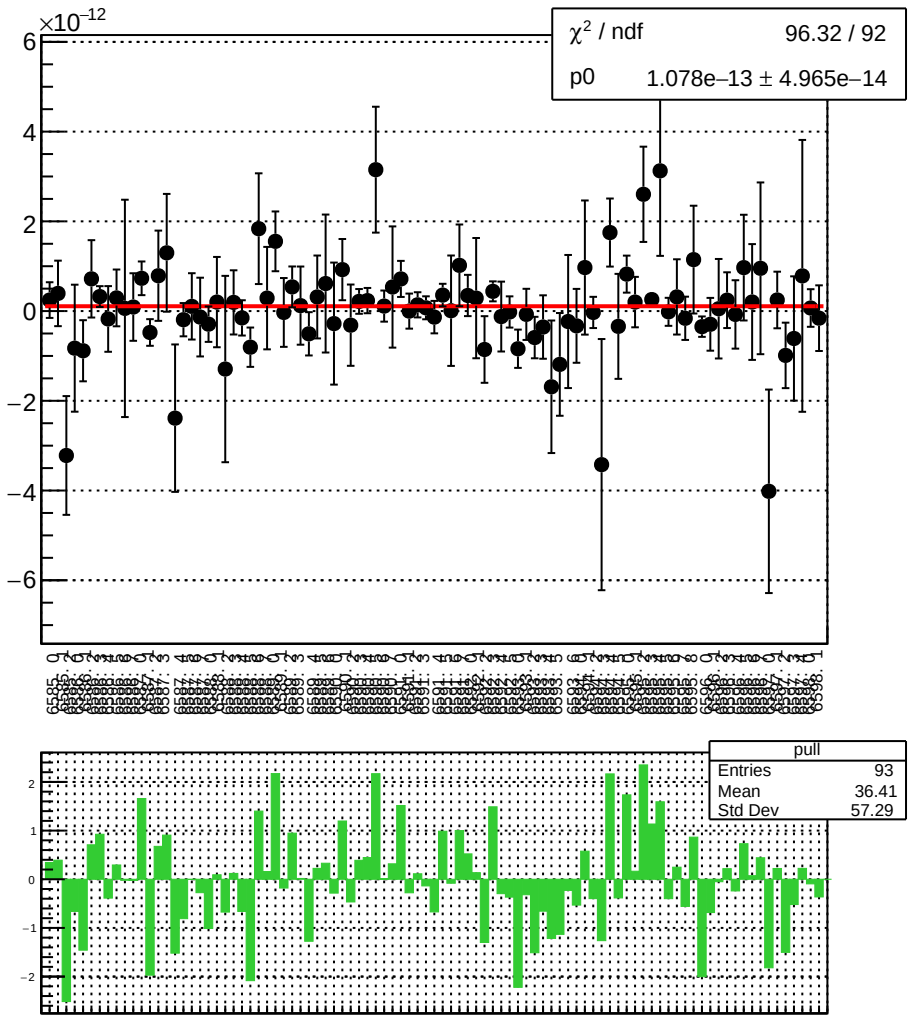

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.172e+04 / 92
p0 0.005094 ± 3.841e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045

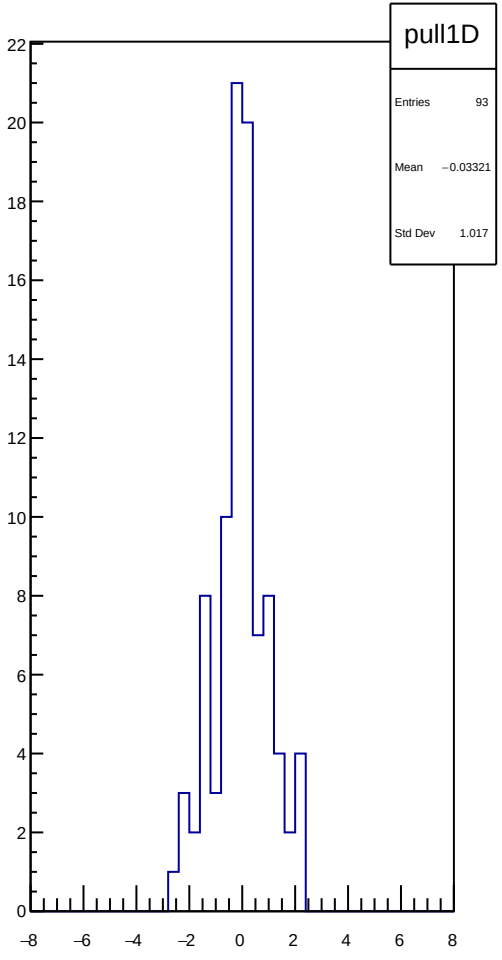

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.17 / 92
p0 0.265 ± 0.3445
pull
Entries 93
Mean −32.36
Std Dev 325.5
pull1D
Entries 93
Mean −0.00131
Std Dev 0.94

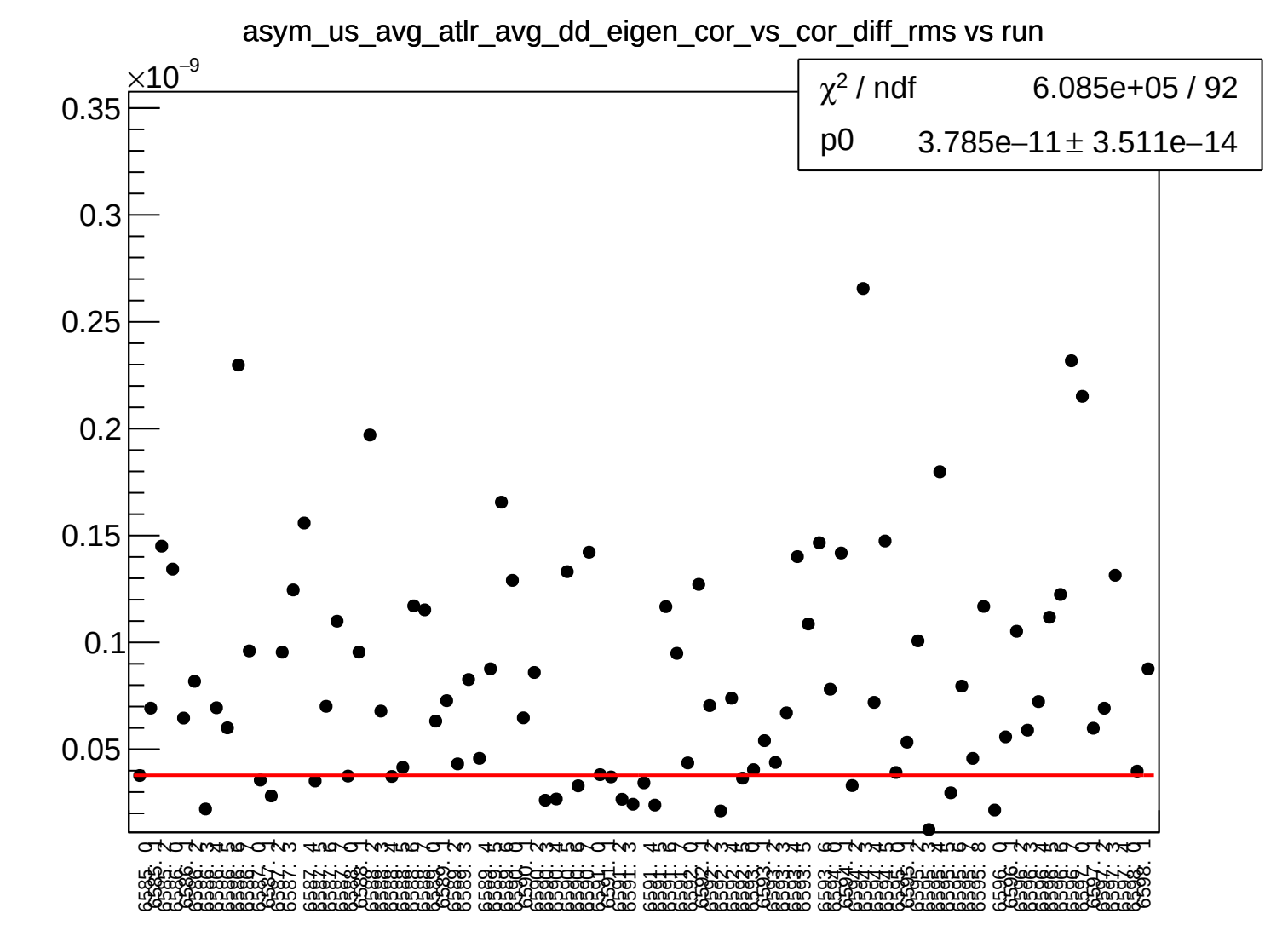

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+04 / 92
p0 322.4 ± 0.2436
450
400
350
300
250

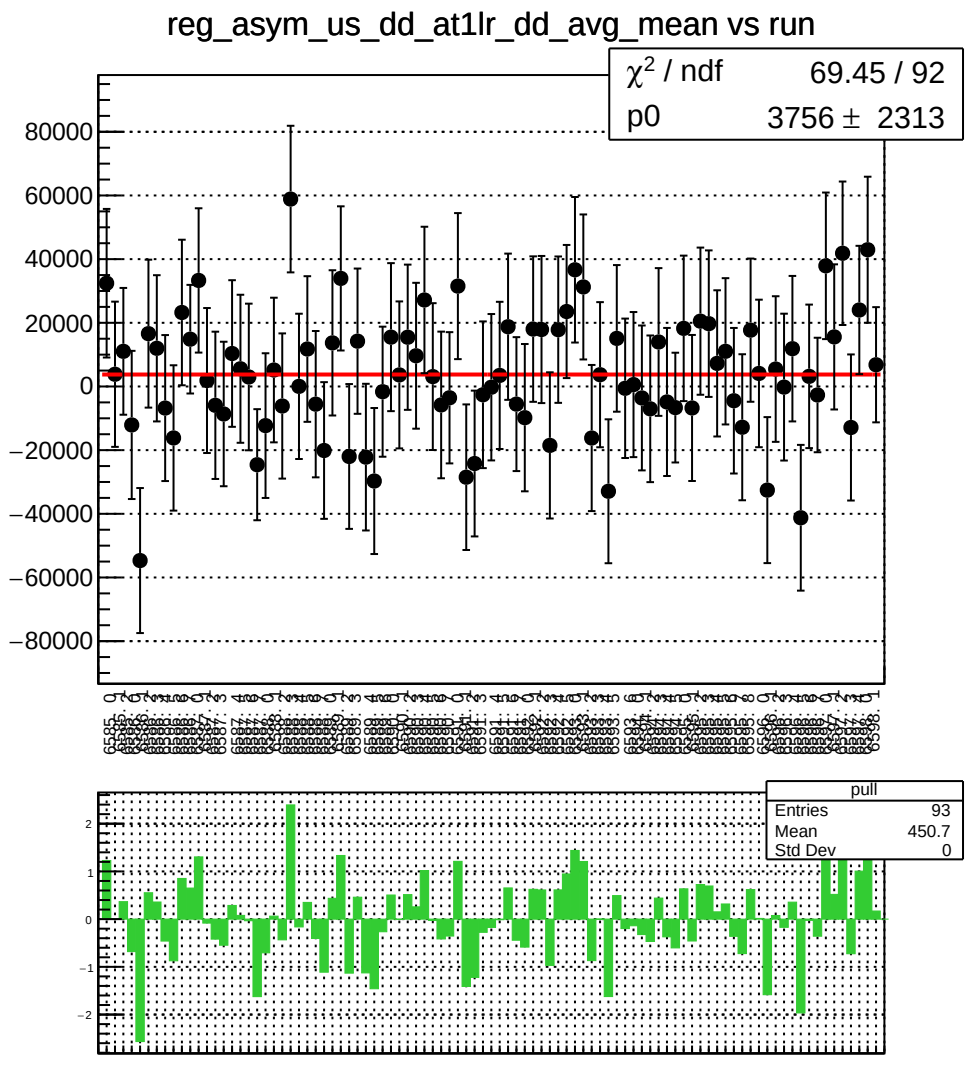

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.17 / 92
p0 0.265 ± 0.3445
pull
Entries 93
Mean −32.36
Std Dev 325.5
pull1D
Entries 93
Mean −0.00131
Std Dev 0.94

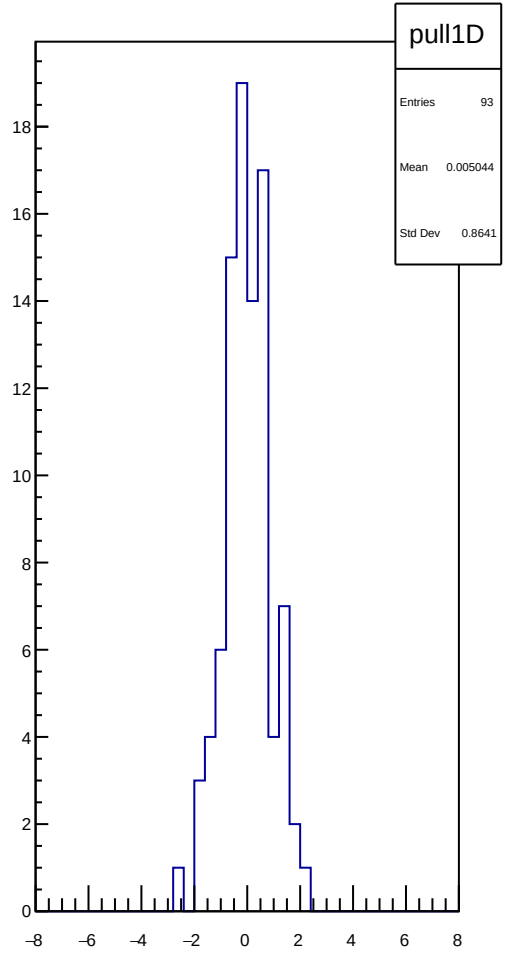

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+04 / 92
p0 322.4 ± 0.2436
450
400
350
300
250

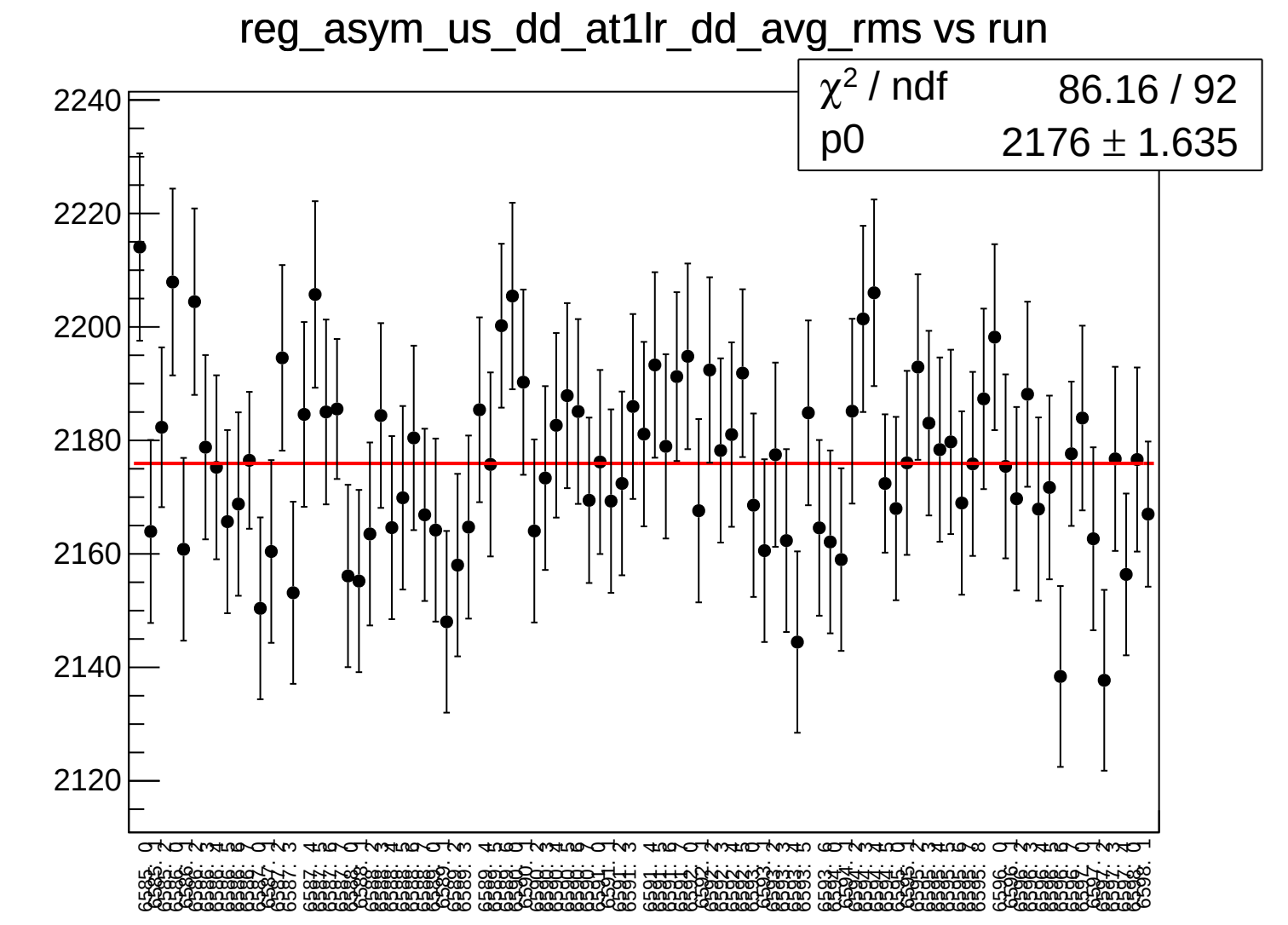

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.32 / 92
p0 1.078e−13 ± 4.965e−14
pull
Entries 93
Mean 36.41
Std Dev 57.29

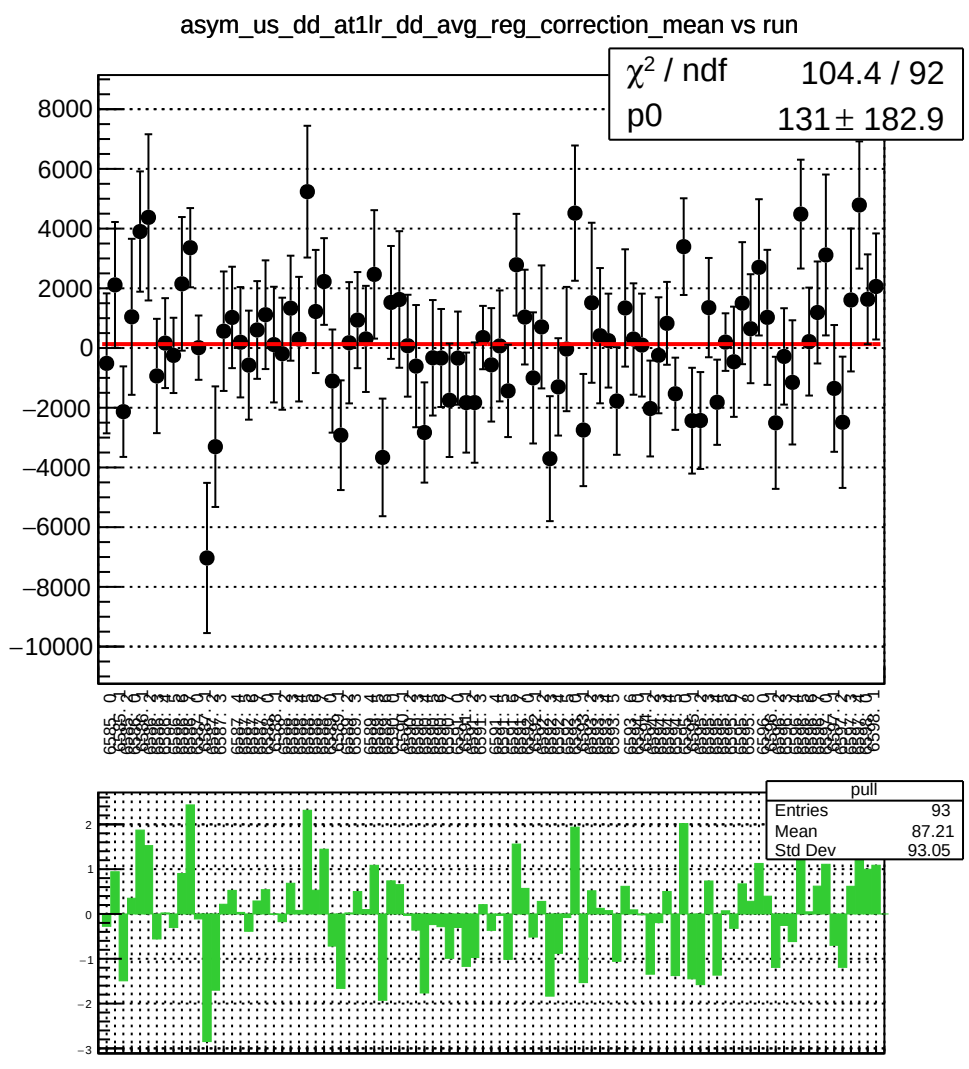

pull1D
Entries 93
Mean −0.03321
Std Dev 1.017

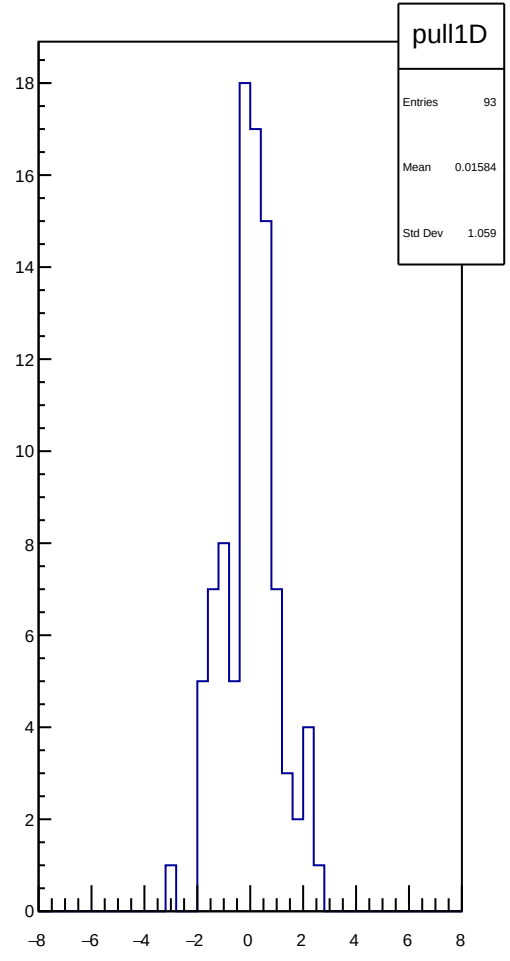

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.085e+05 / 92
p0 3.785e−11 ± 3.511e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

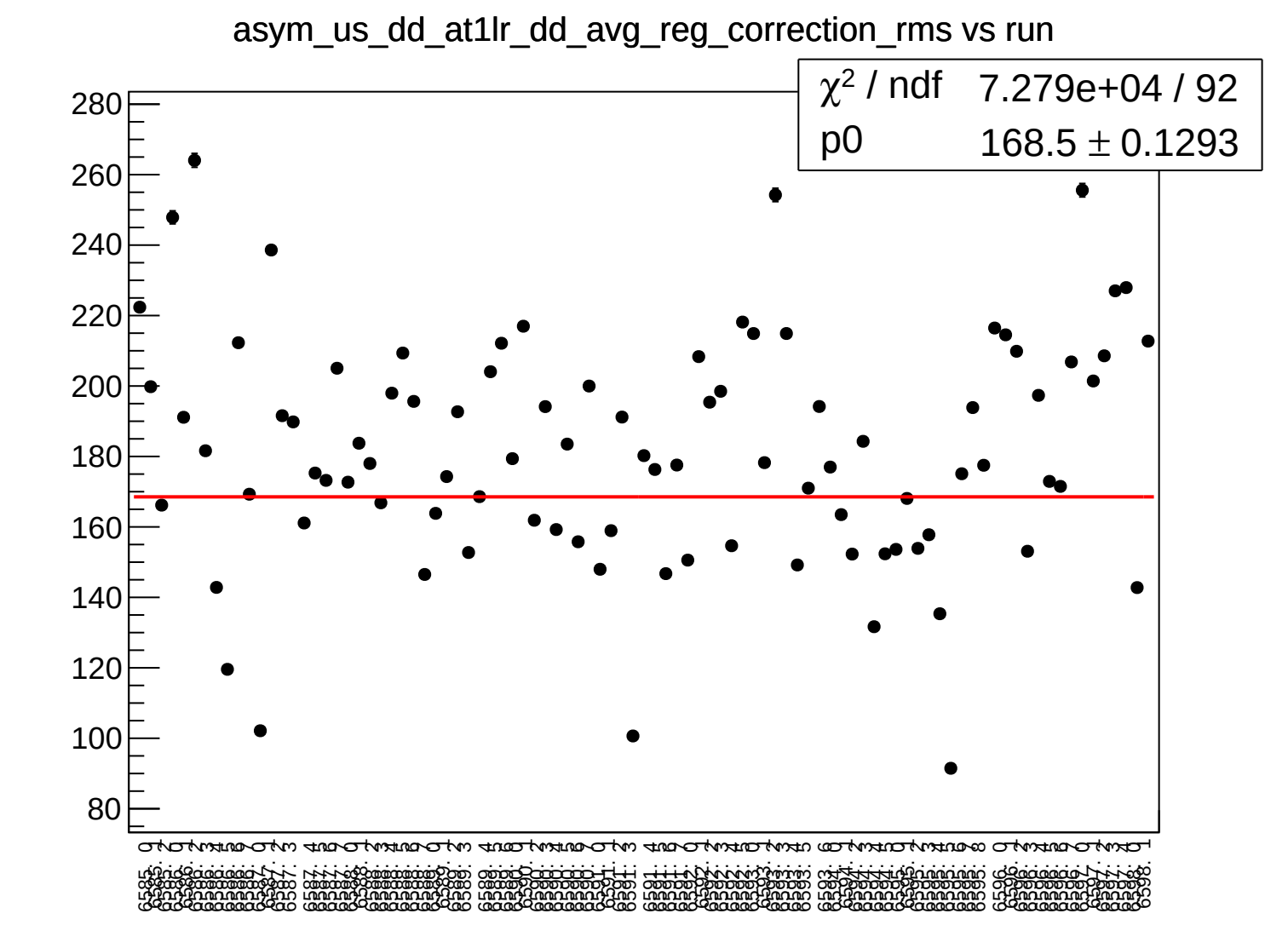

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.45 / 92
p0 3756 ± 2313
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 450.7
Std Dev 0
2
1
0
−1
−2

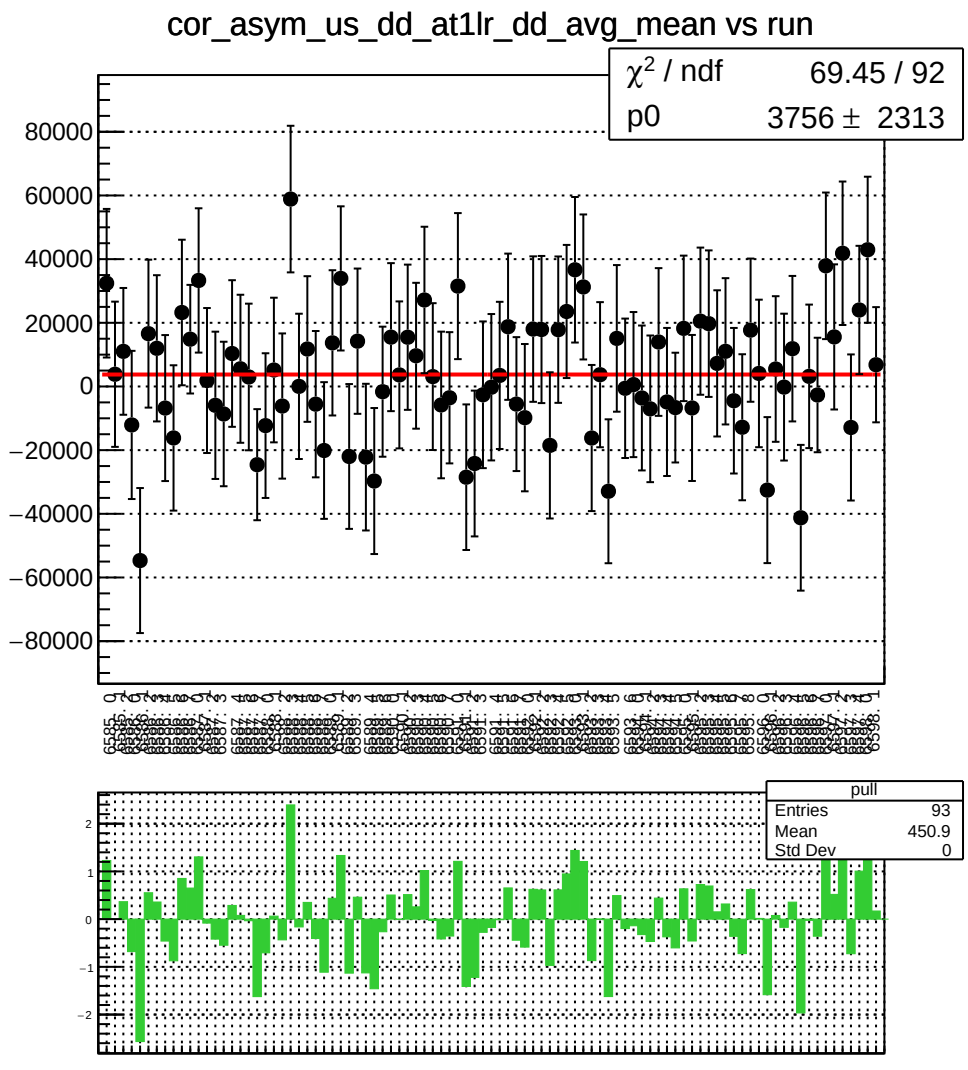

pull1D
Entries 93
Mean 0.005044
Std Dev 0.8641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

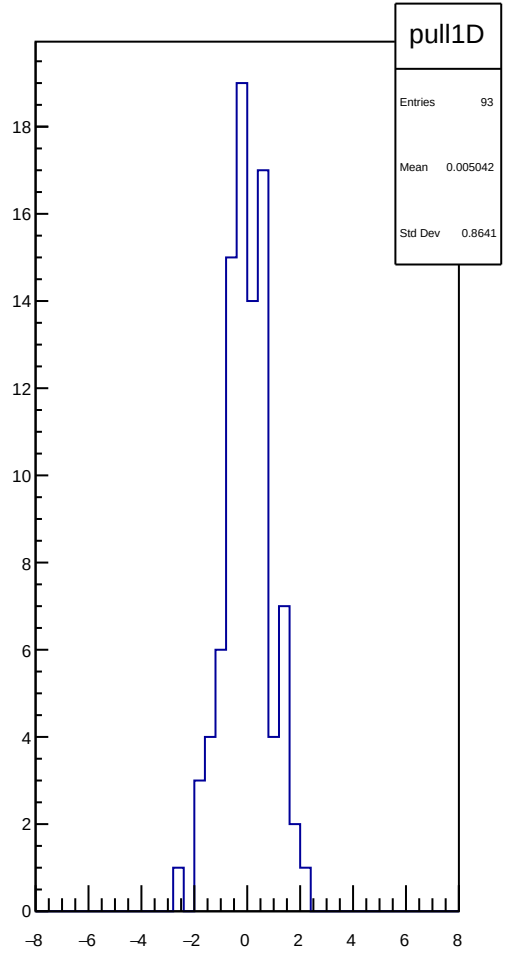

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 86.16 / 92
p0 2176 ± 1.635
2240
2220
2200
2180
2160
2140
2120

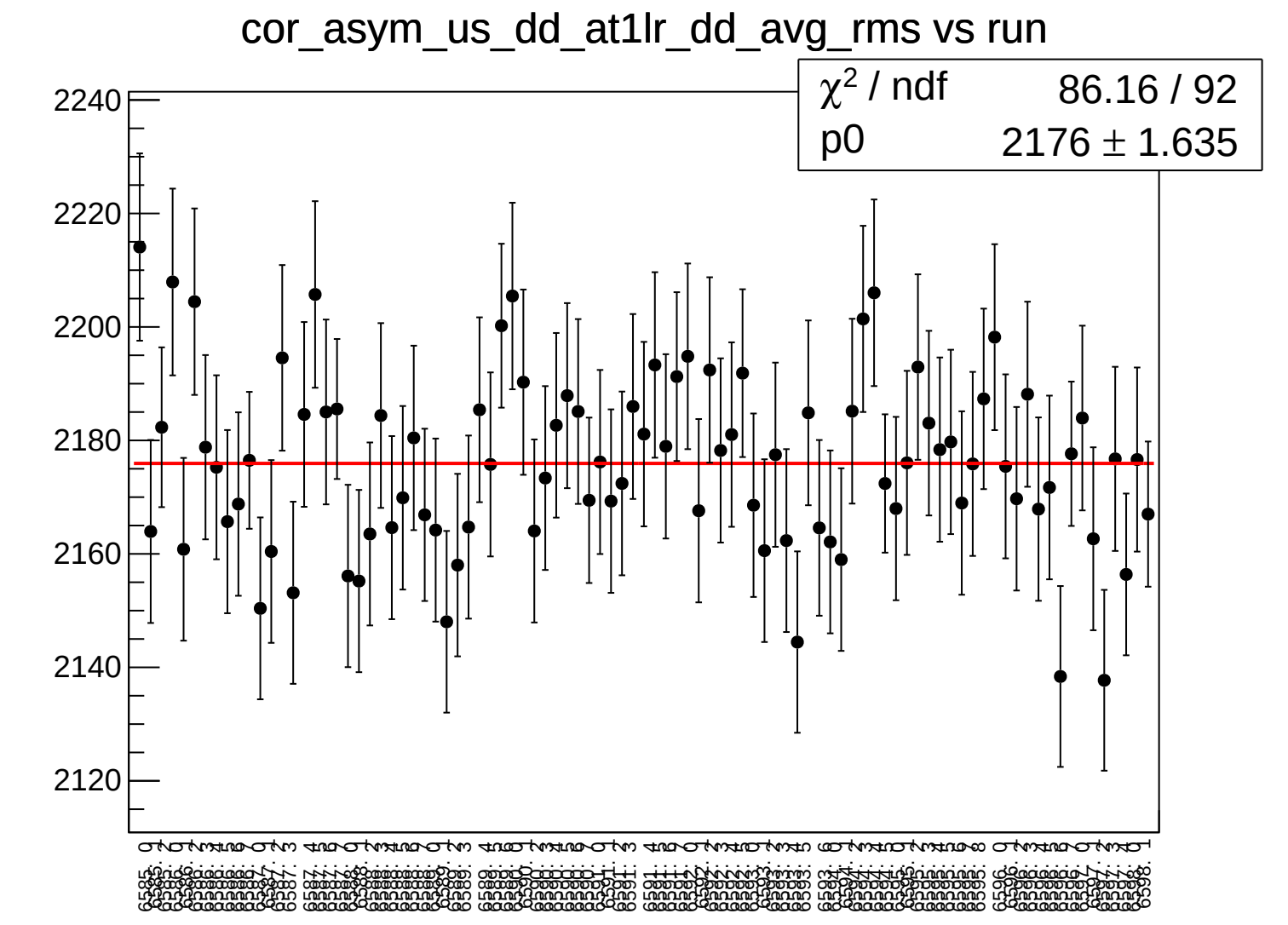

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 104.4 / 92
p0 131 ± 182.9
pull
Entries 93
Mean 87.21
Std Dev 93.05

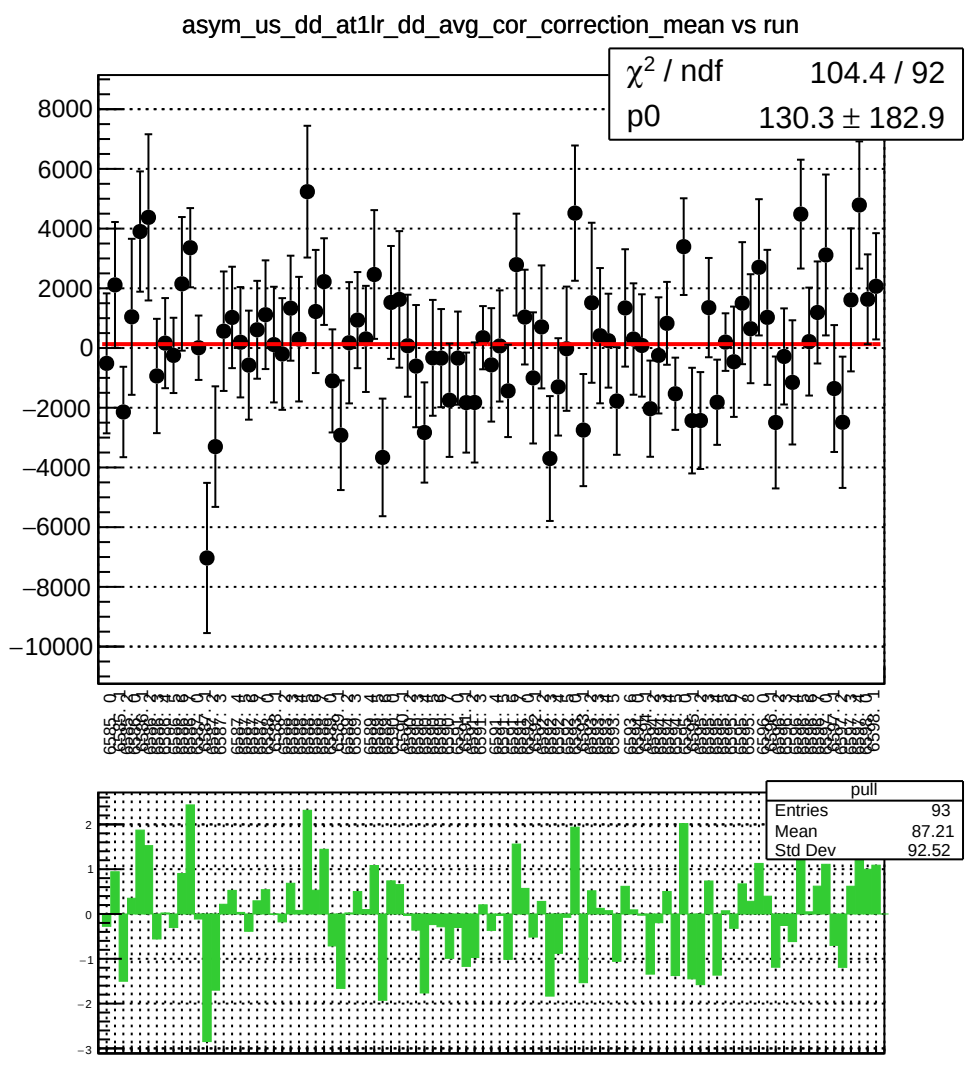

pull1D
Entries 93
Mean 0.01584
Std Dev 1.059

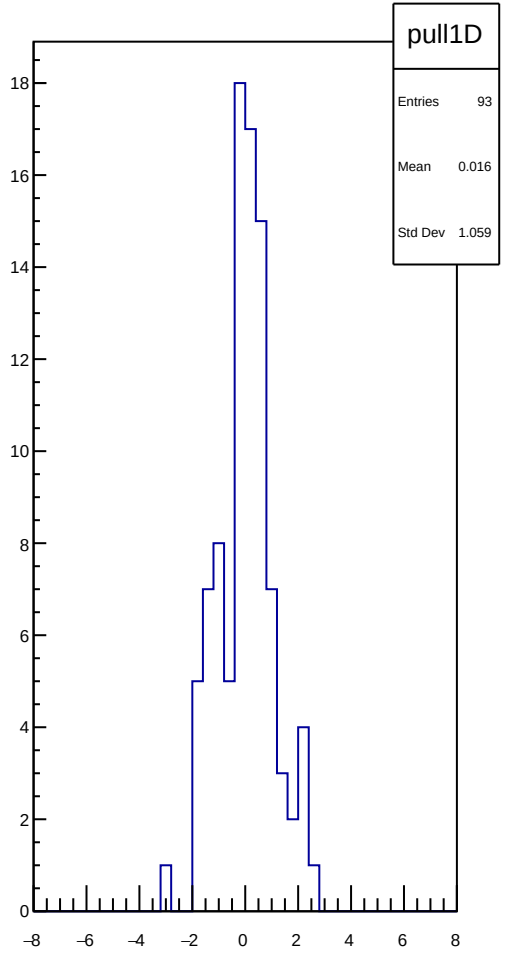

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7.279e+04 / 92
p0 168.5 ± 0.1293
280
260
240
220
200
180
160
140
120
100
80

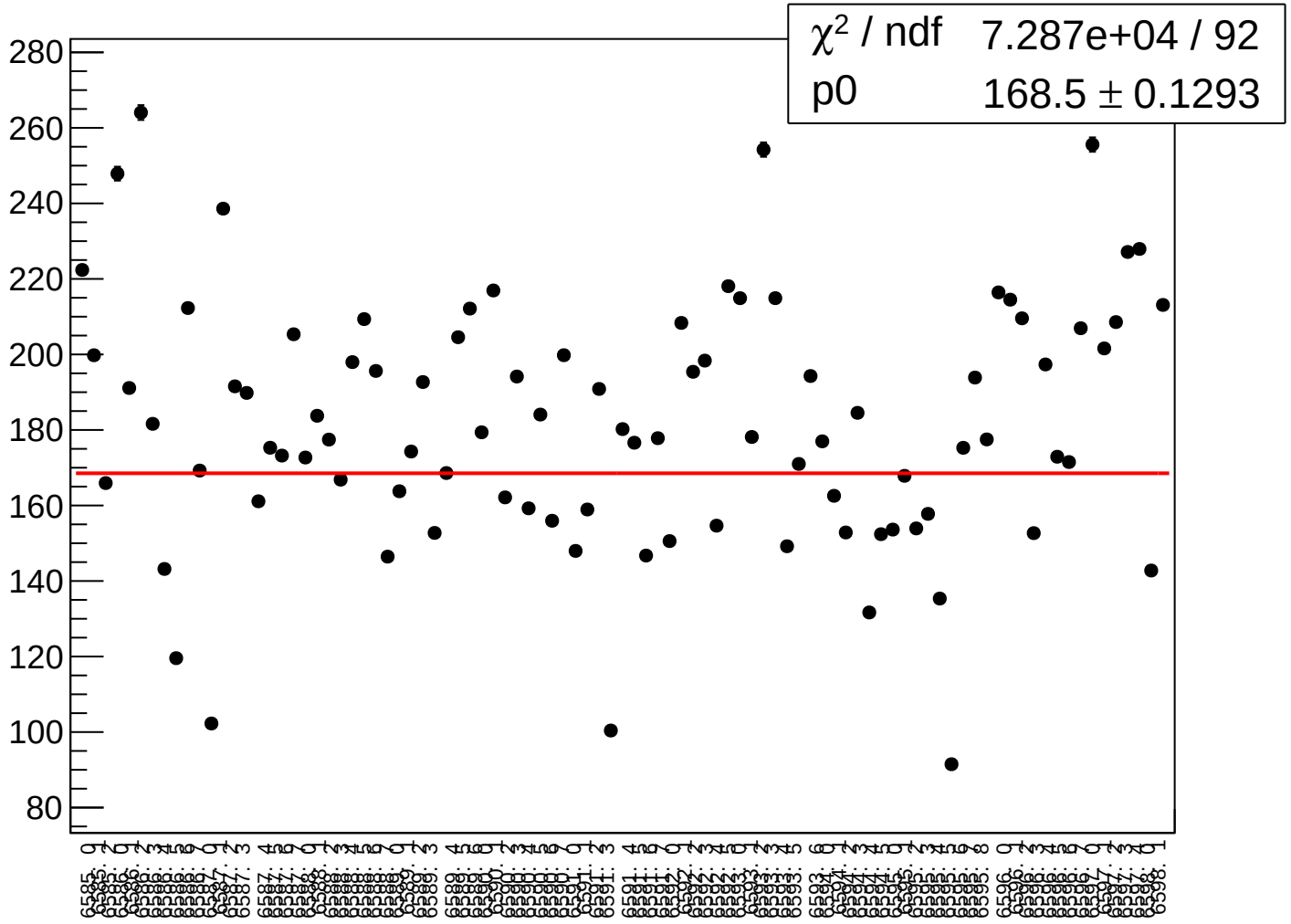

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.45 / 92
p0 3756 ± 2313
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 450.9
Std Dev 0
2
1
0
−1
−2

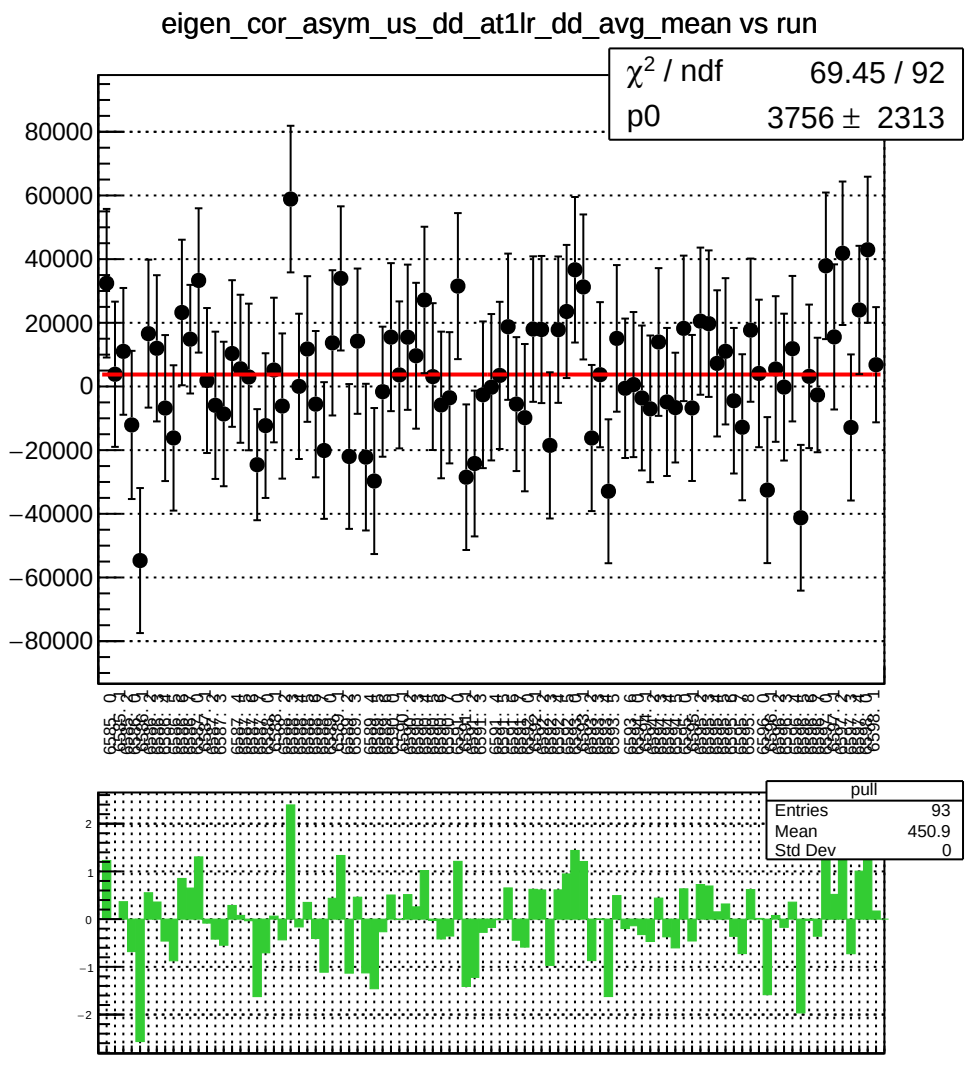

pull1D
Entries 93
Mean 0.005042
Std Dev 0.8641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

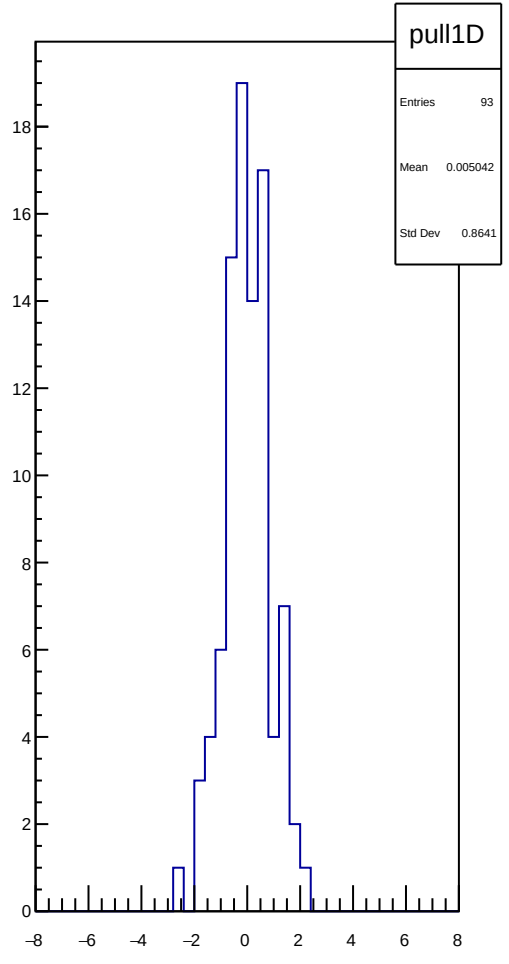

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 86.16 / 92
p0 2176 ± 1.635
2240
2220
2200
2180
2160
2140
2120

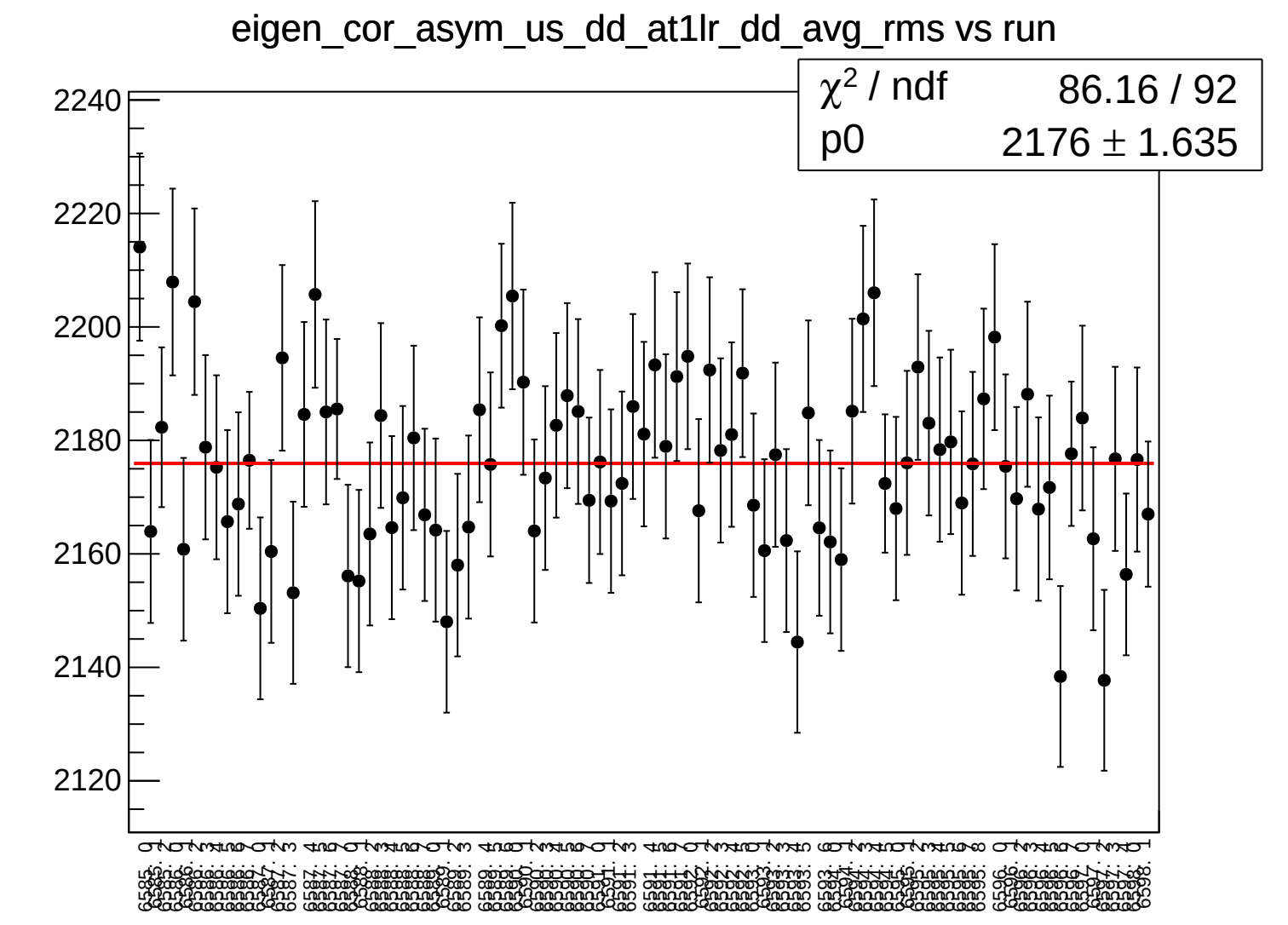

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 104.4 / 92
p0 130.3 ± 182.9
pull
Entries 93
Mean 87.21
Std Dev 92.52

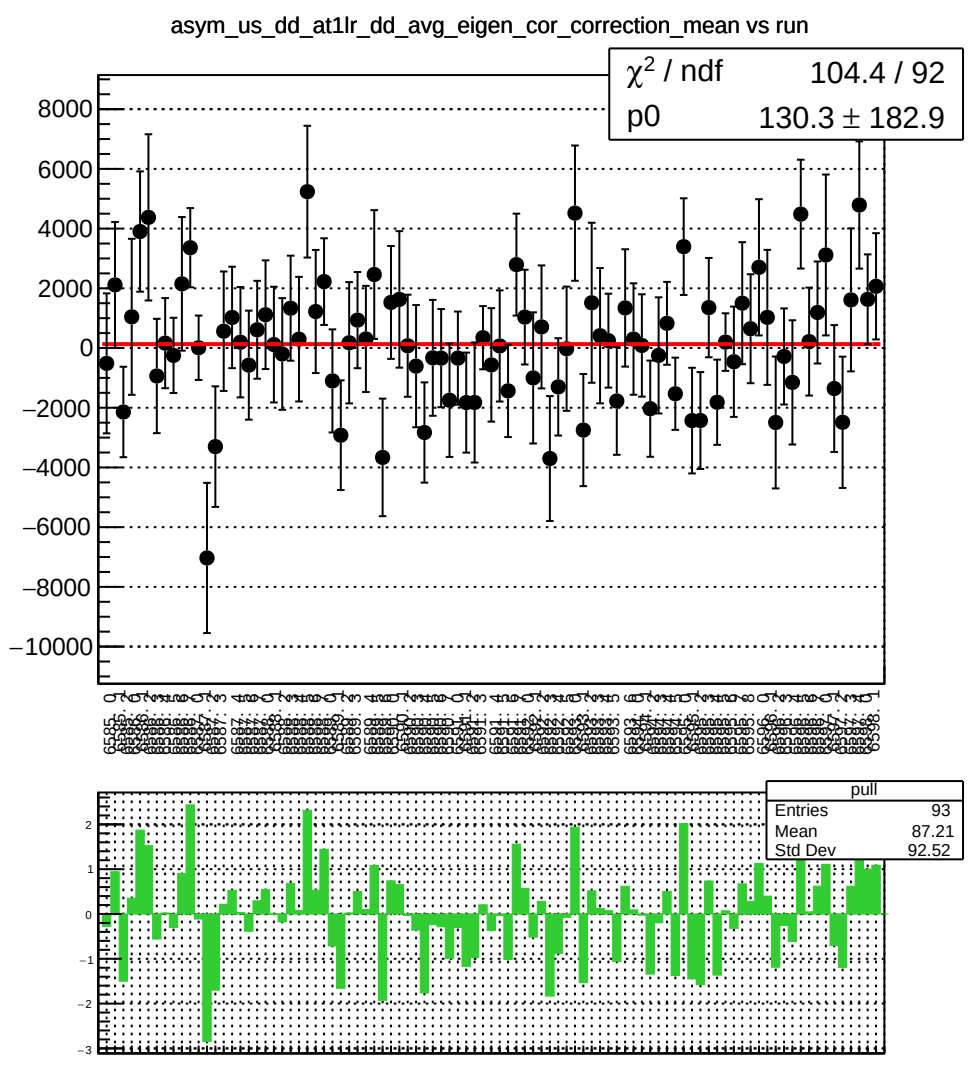

pull1D
Entries 93
Mean 0.016
Std Dev 1.059

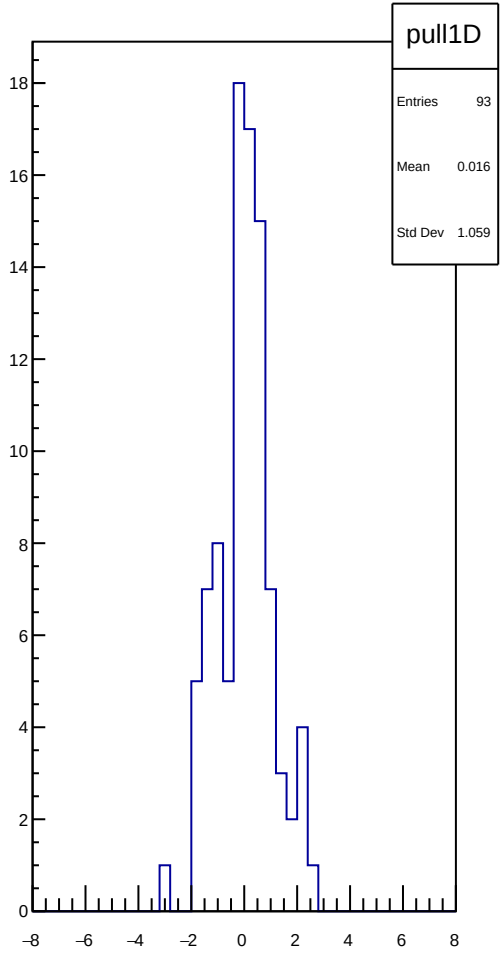

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 7.287e+04 / 92
p0 168.5 ± 0.1293
280
260
240
220
200
180
160
140
120
100
80

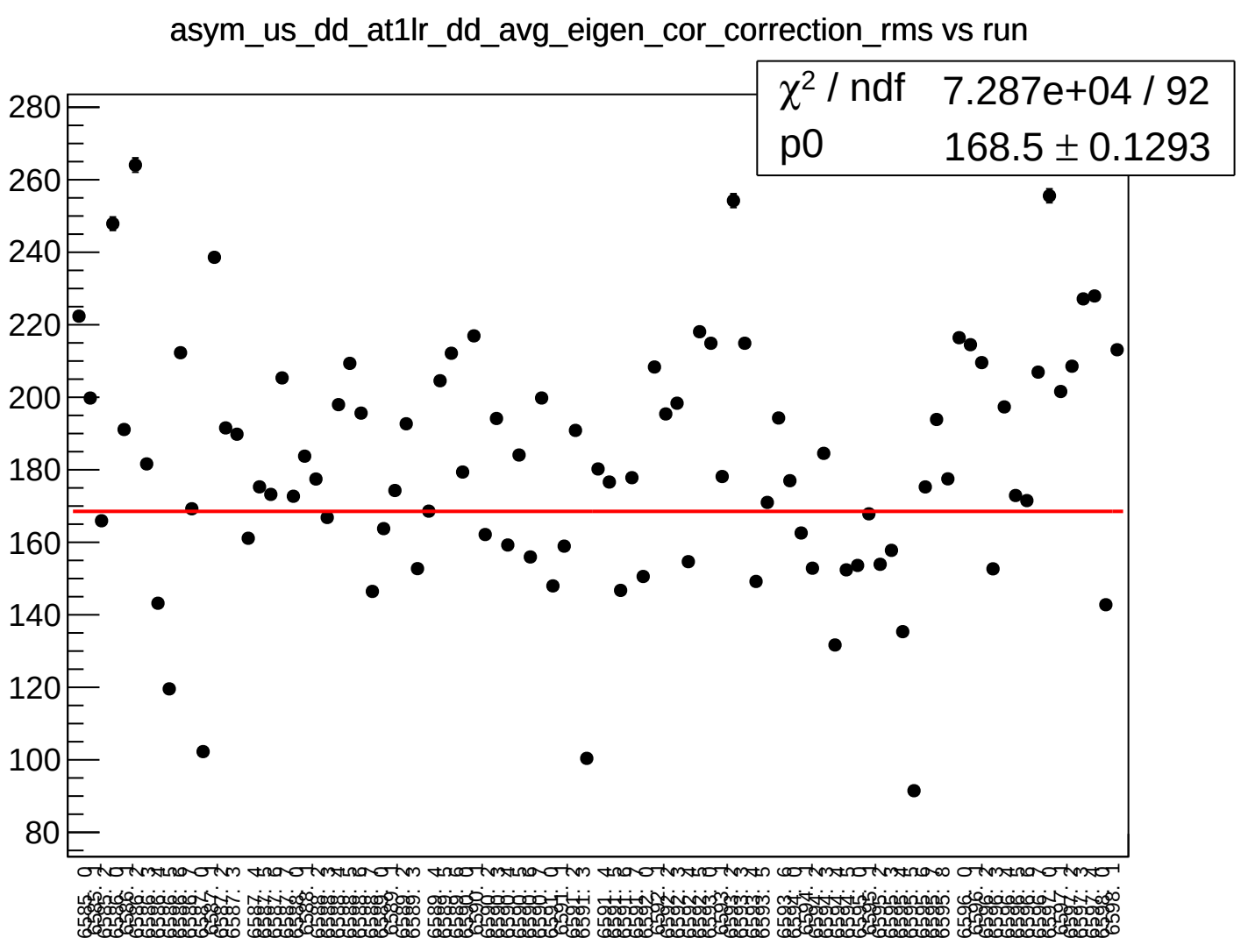

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.45 / 92
p0 3756 ± 2313
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 450.9
Std Dev 0
2
1
0
−1
−2

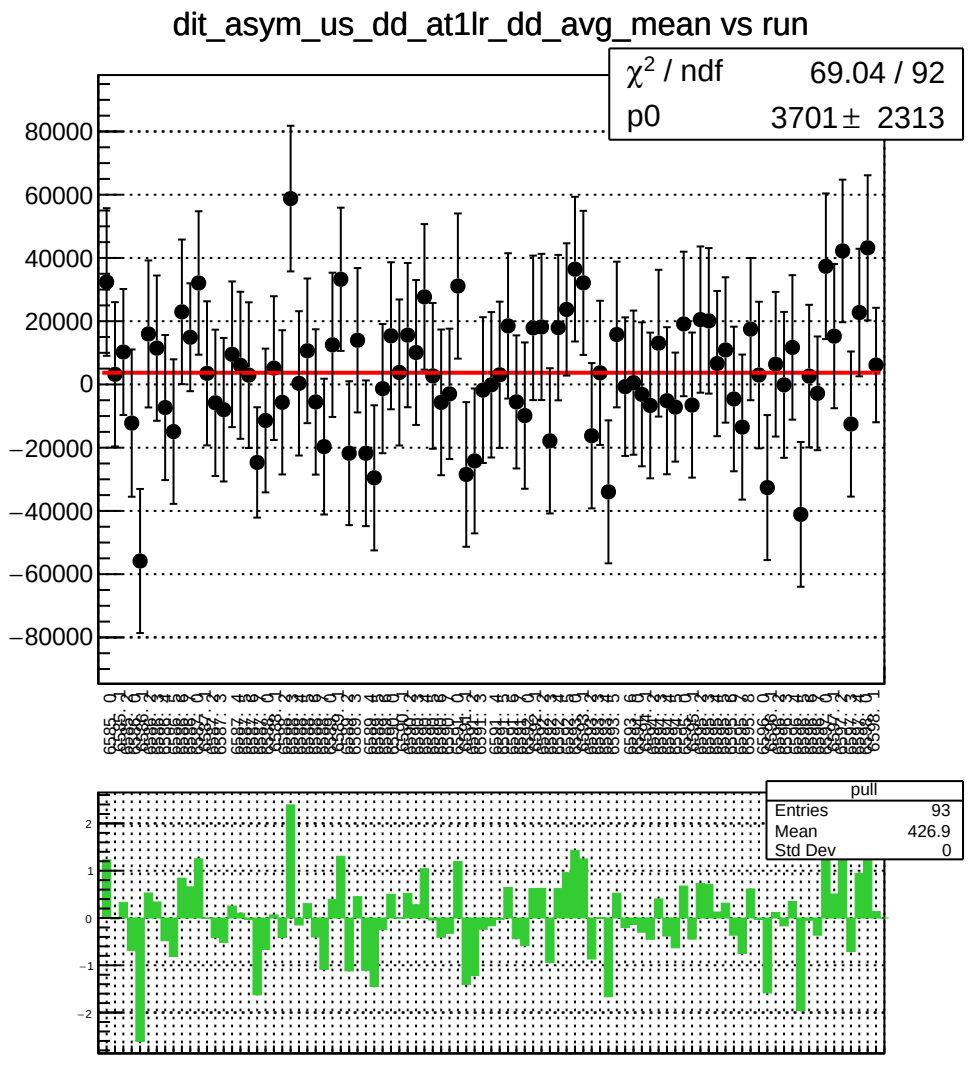

pull1D
Entries 93
Mean 0.005042
Std Dev 0.8641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

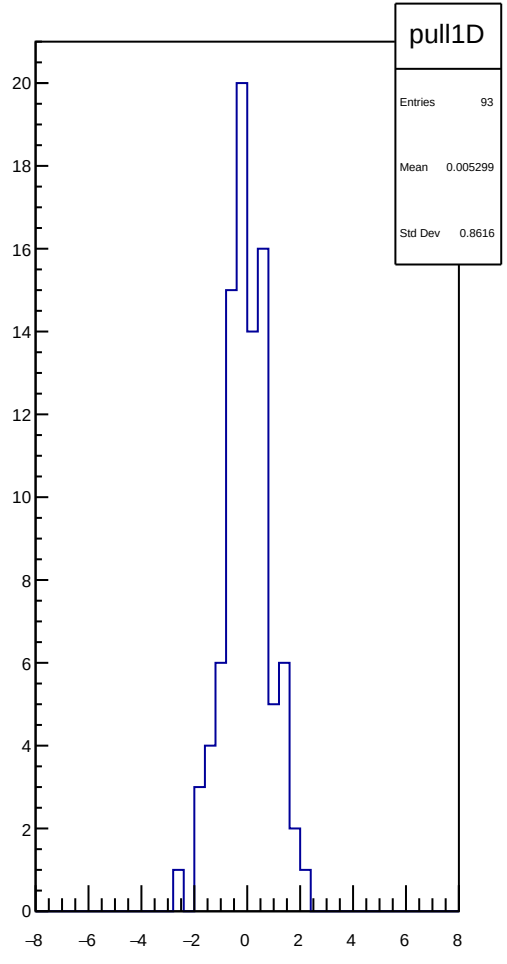

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 86.16 / 92
p0 2176 ± 1.635
2240
2220
2200
2180
2160
2140
2120

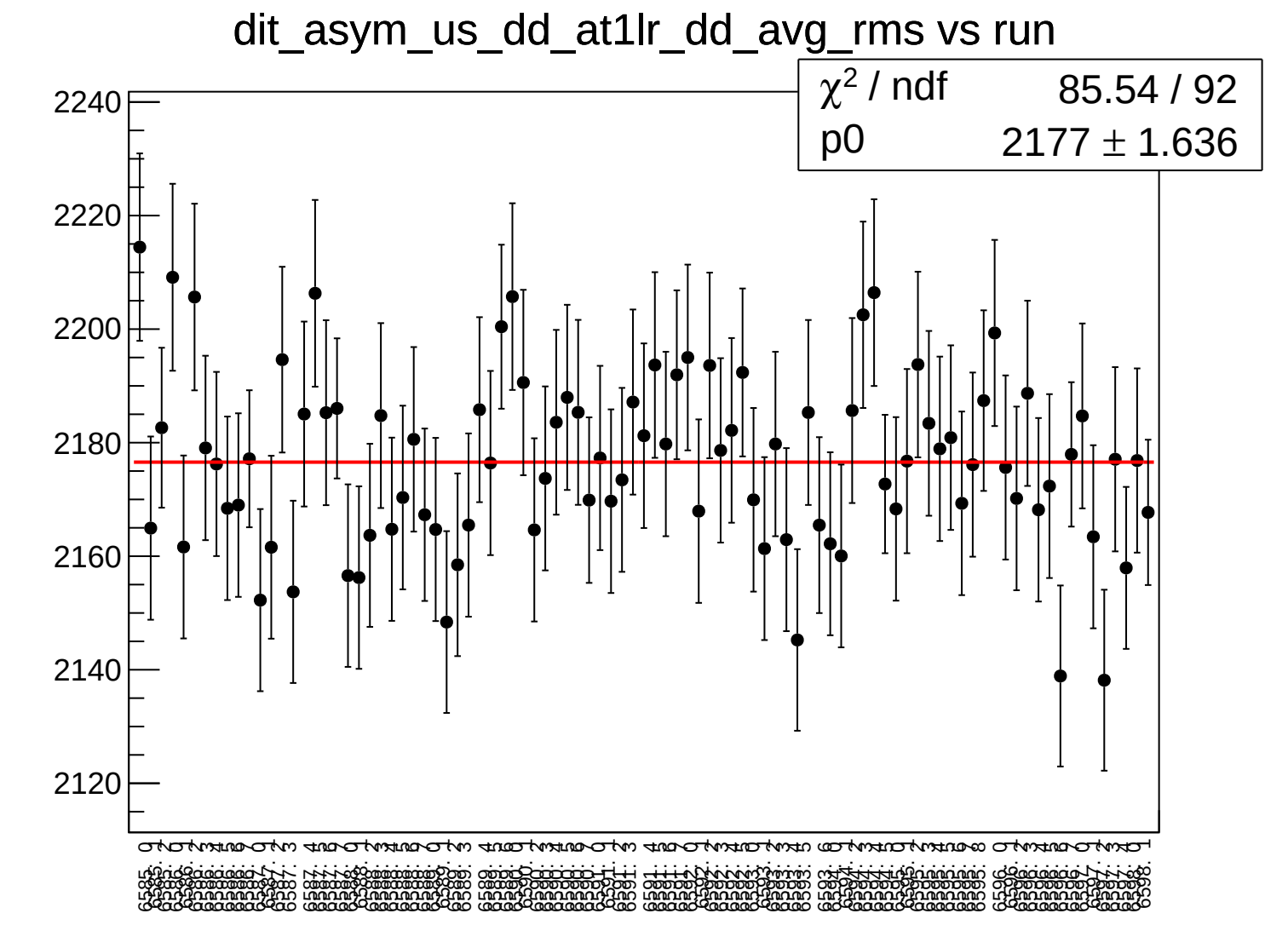

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 104.4 / 92
p0 130.3 ± 182.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 93
Mean 87.21
Std Dev 92.52
2
1
0
−1
−2
−3

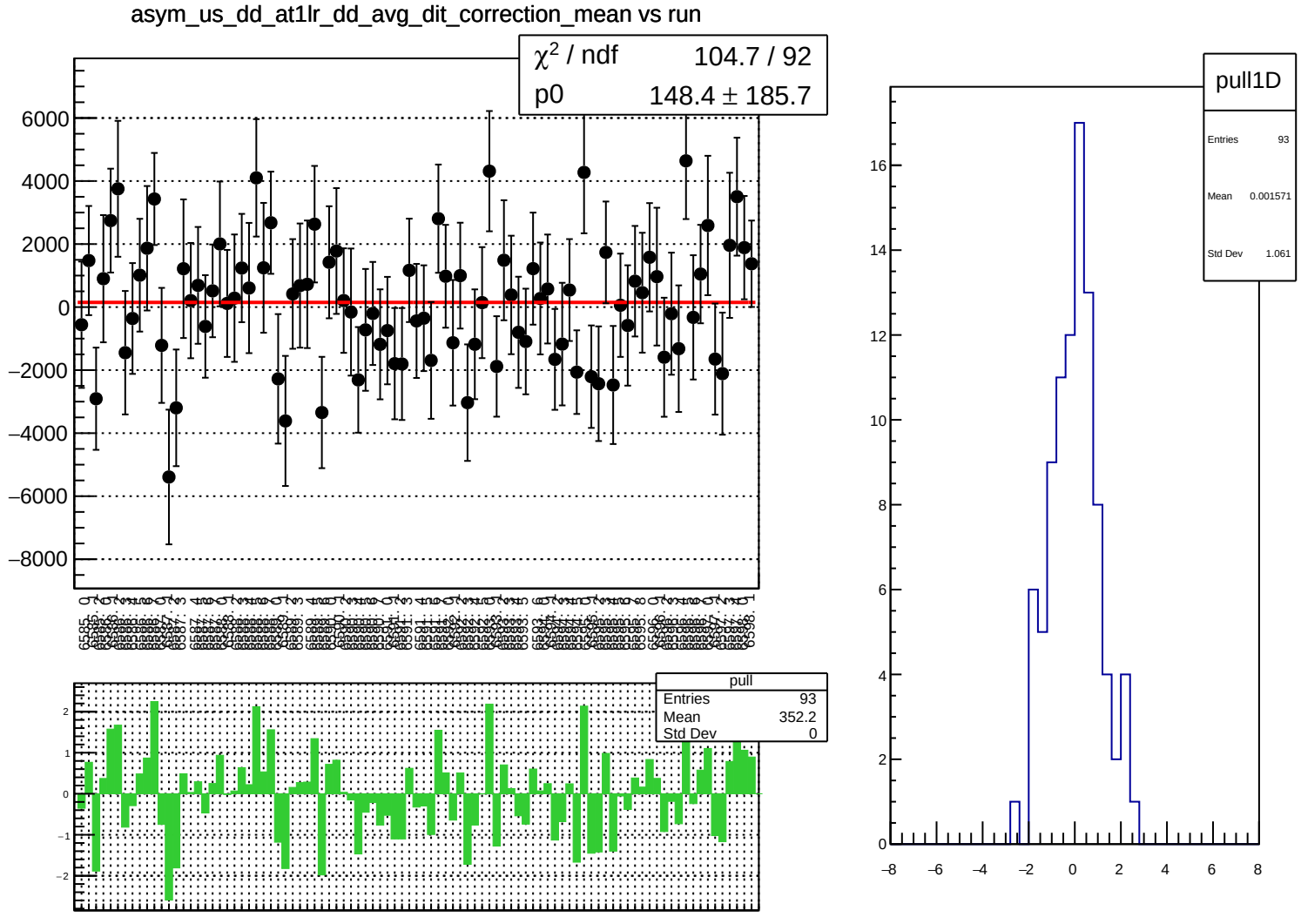

pull1D
Entries 93
Mean 0.016
Std Dev 1.059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

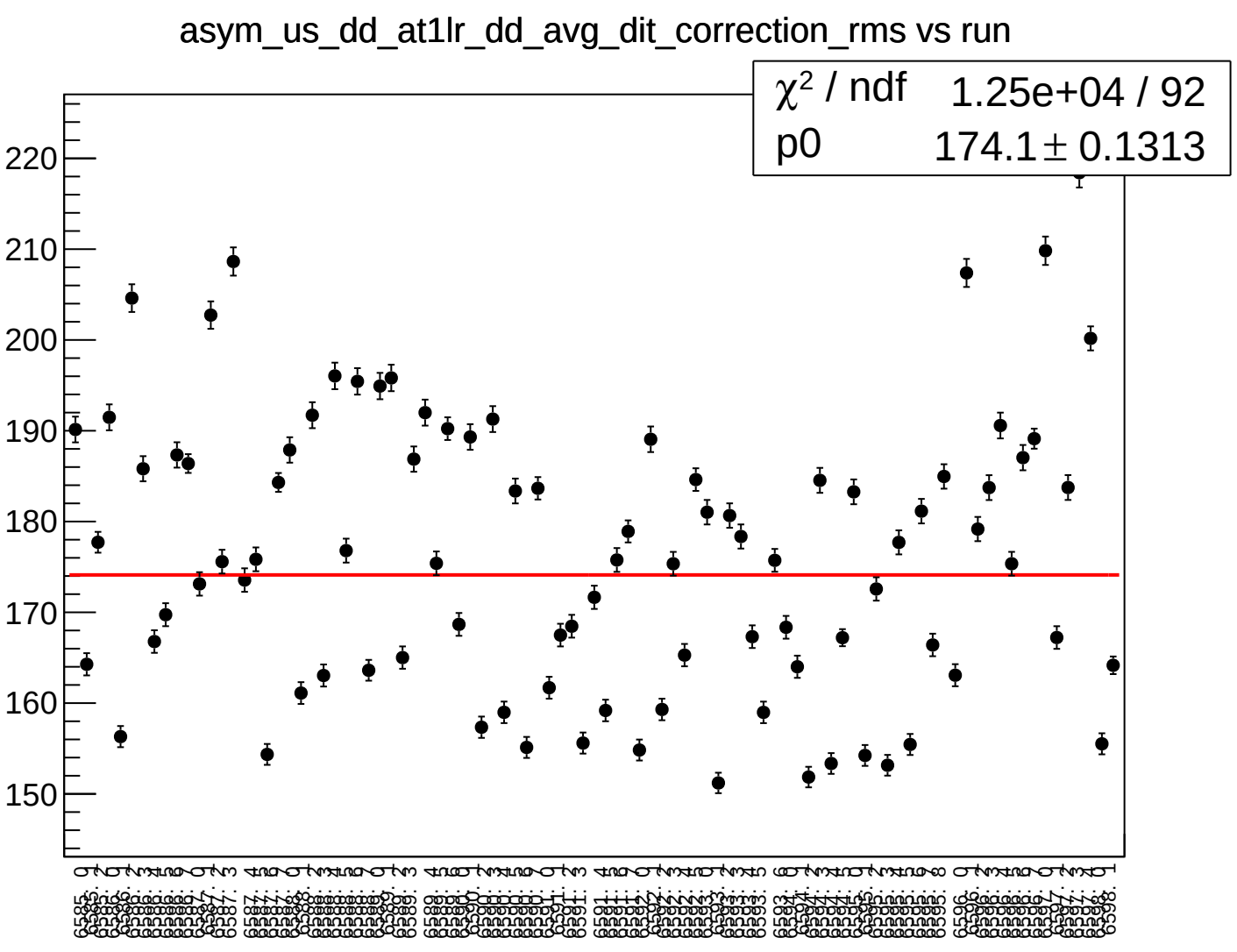

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.287e+04 / 92
p0 168.5 ± 0.1293
280
260
240
220
200
180
160
140
120
100
80

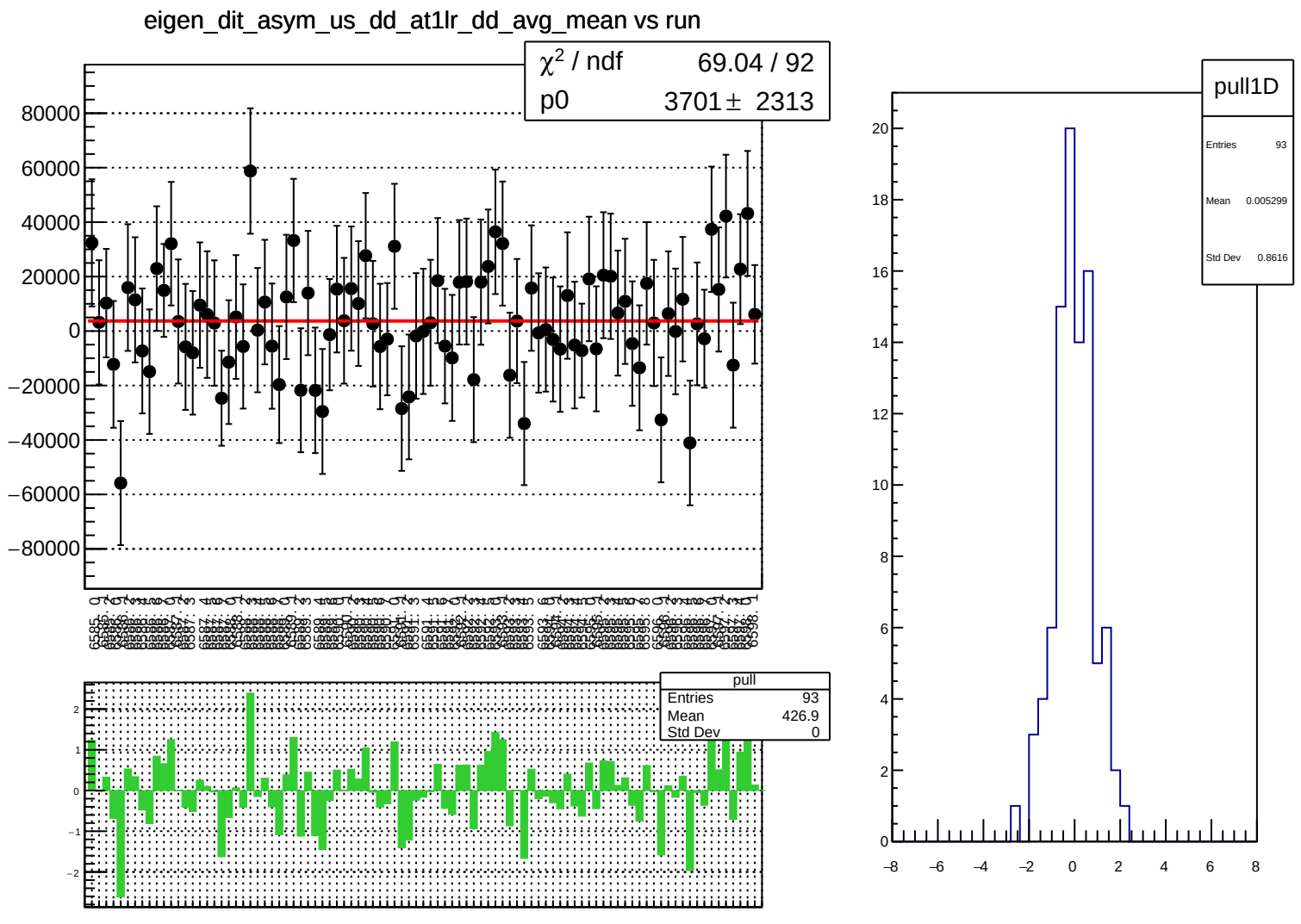

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.04 / 92
p0 3701 ± 2313
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 426.9
Std Dev 0
2
1
0
−1
−2

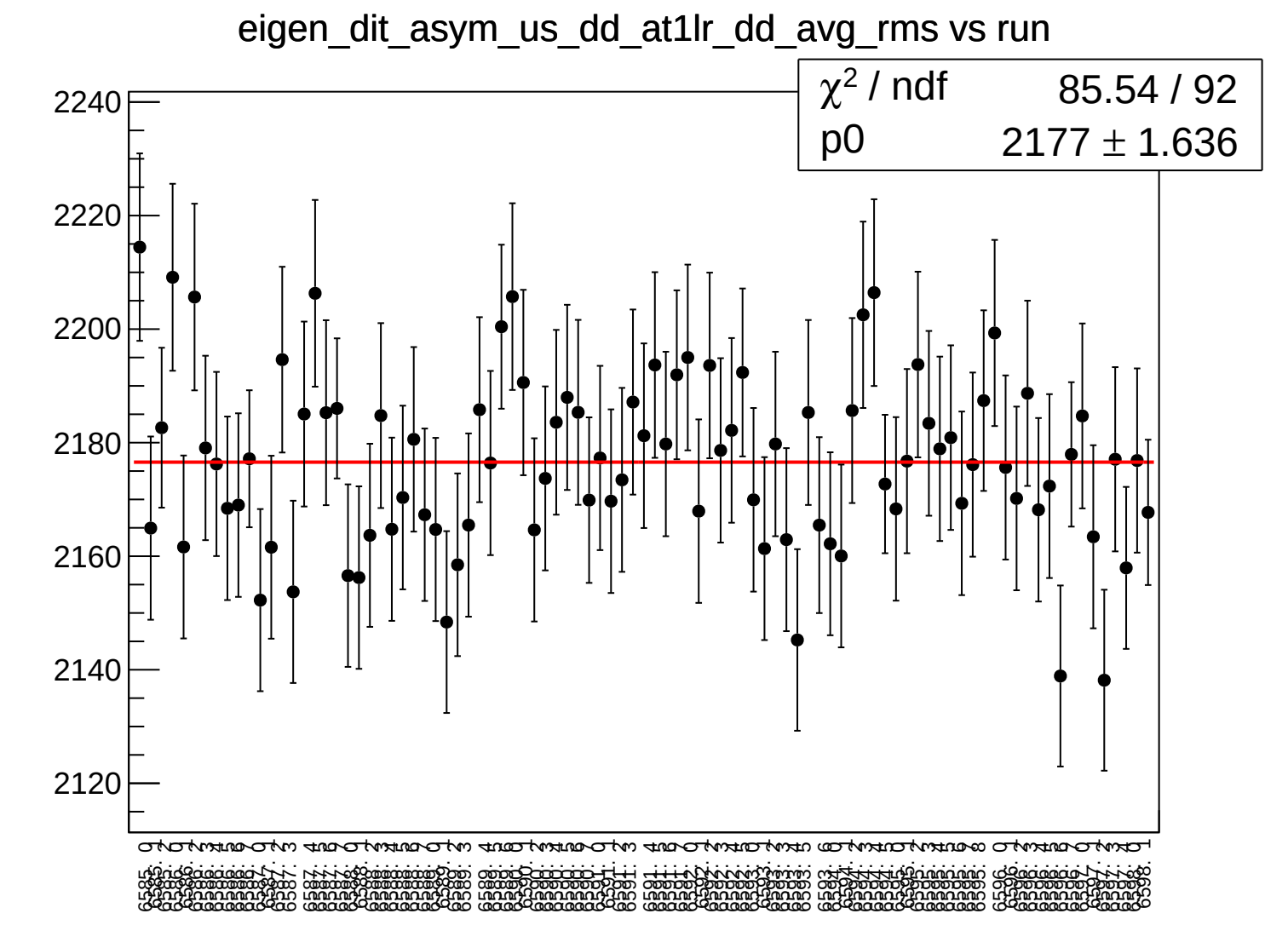

pull1D
Entries 93
Mean 0.005299
Std Dev 0.8616
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

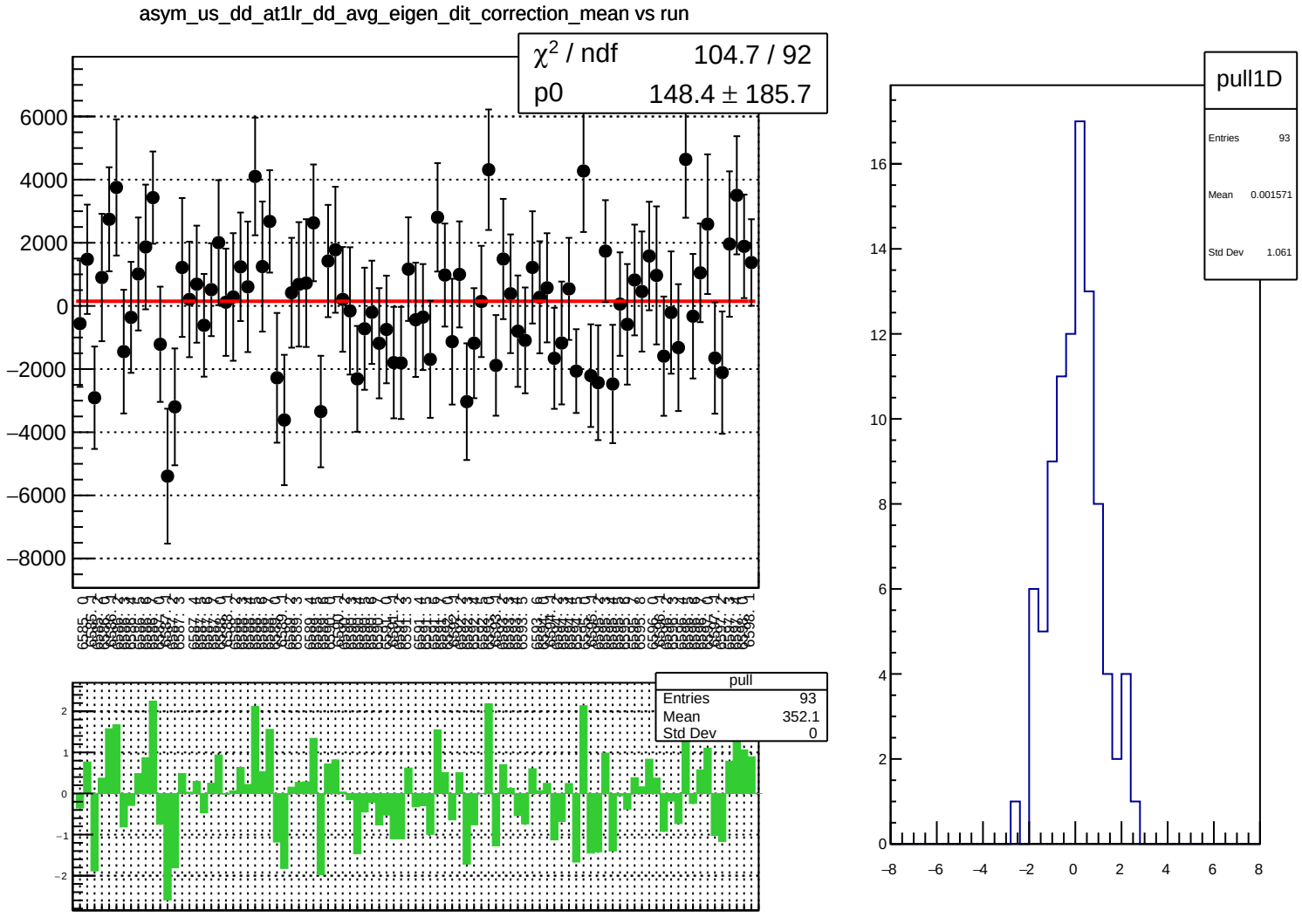

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 85.54 / 92
p0 2177 ± 1.636
2240
2220
2200
2180
2160
2140
2120

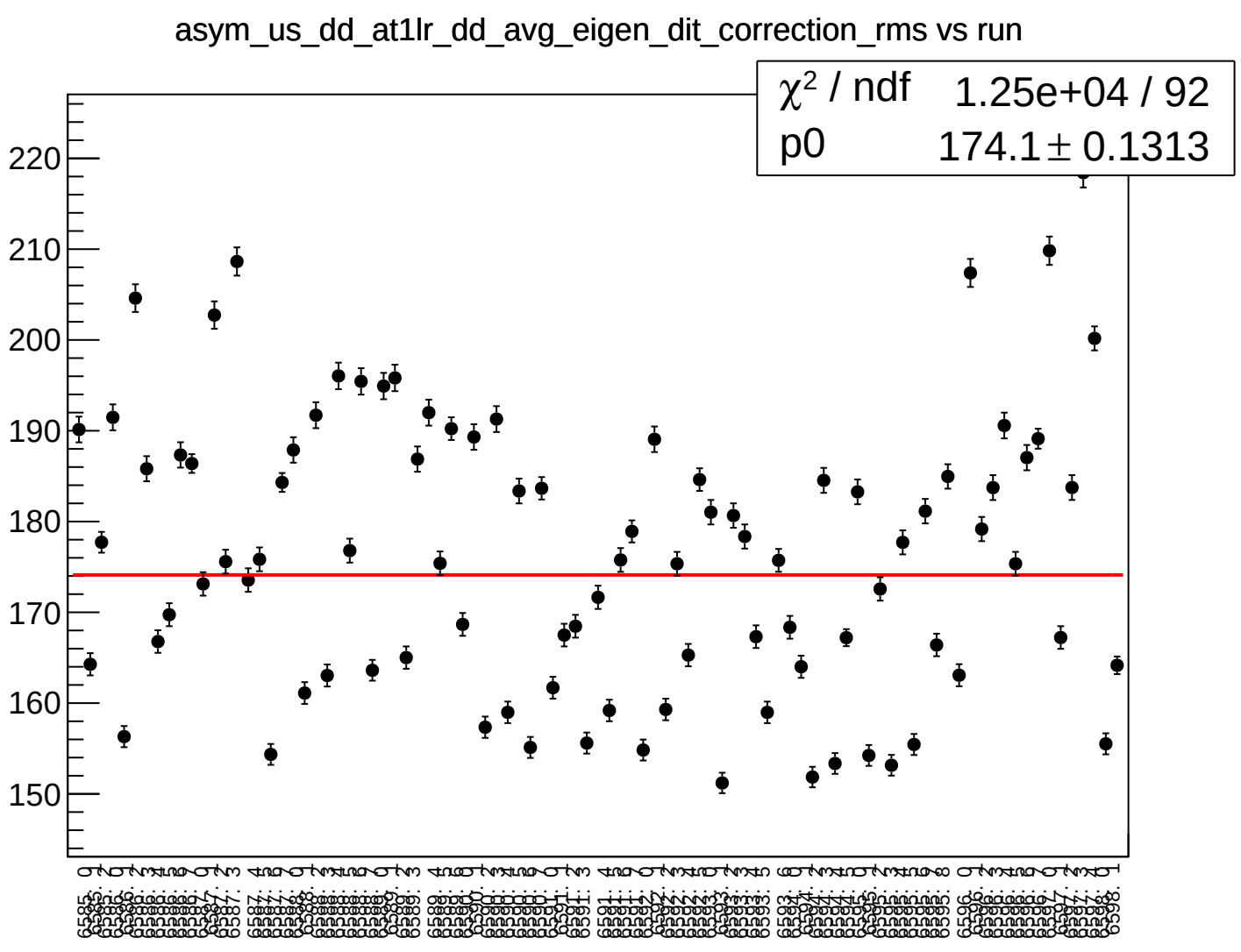

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 104.7 / 92
p0 148.4 ± 185.7
pull
Entries 93
Mean 352.2
Std Dev 0
pull1D
Entries 93
Mean 0.001571
Std Dev 1.061

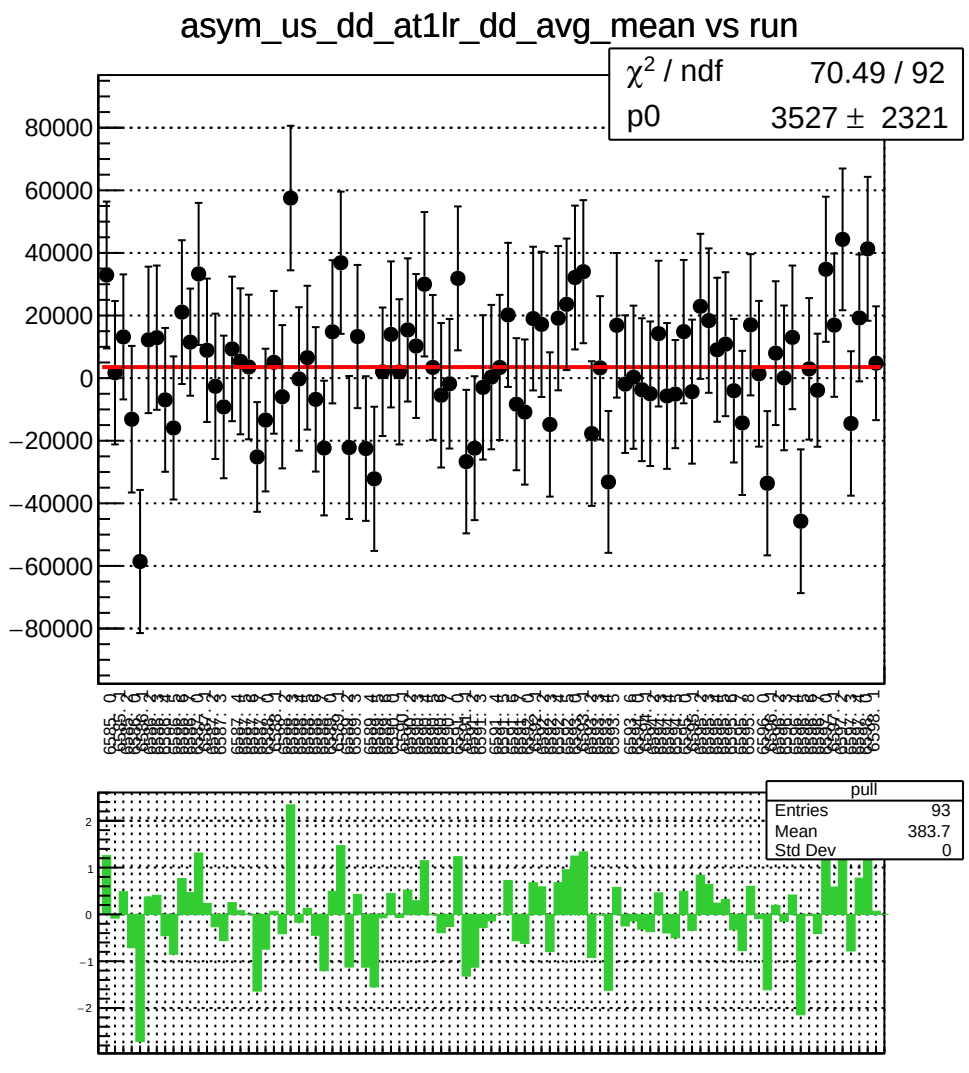

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.25e+04 / 92
p0 174.1 ± 0.1313
220
210
200
190
180
170
160
150

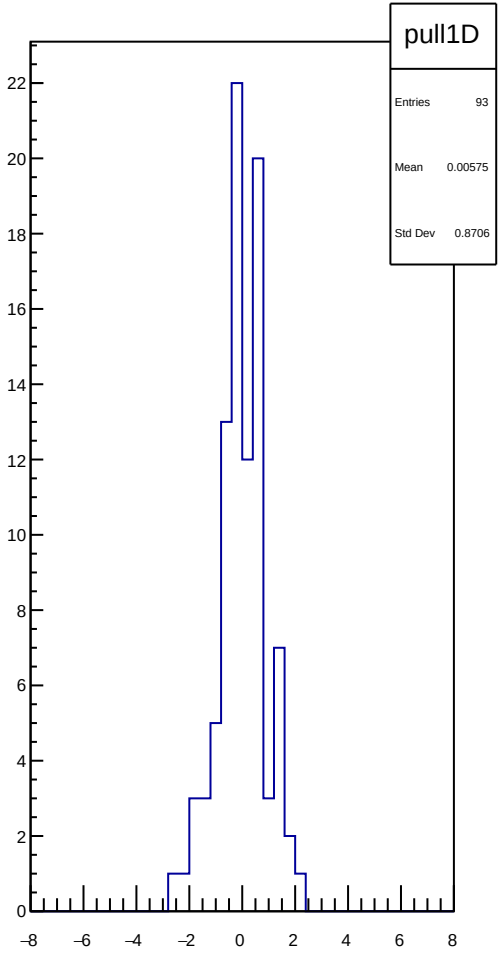

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 69.04 / 92
p0 3701 ± 2313
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 426.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005299
Std Dev 0.8616
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

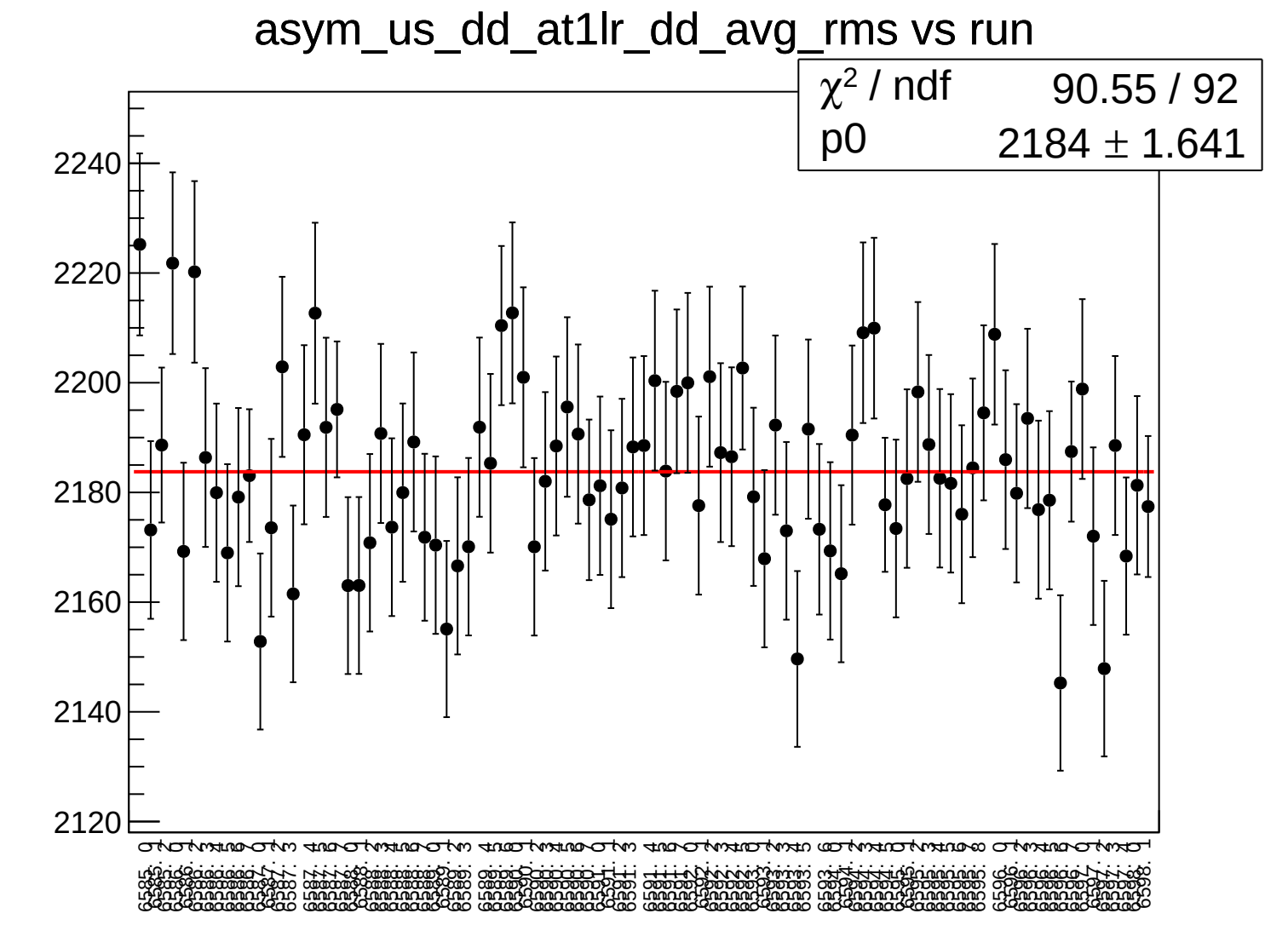

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 85.54 / 92
p0 2177 ± 1.636
2240
2220
2200
2180
2160
2140
2120

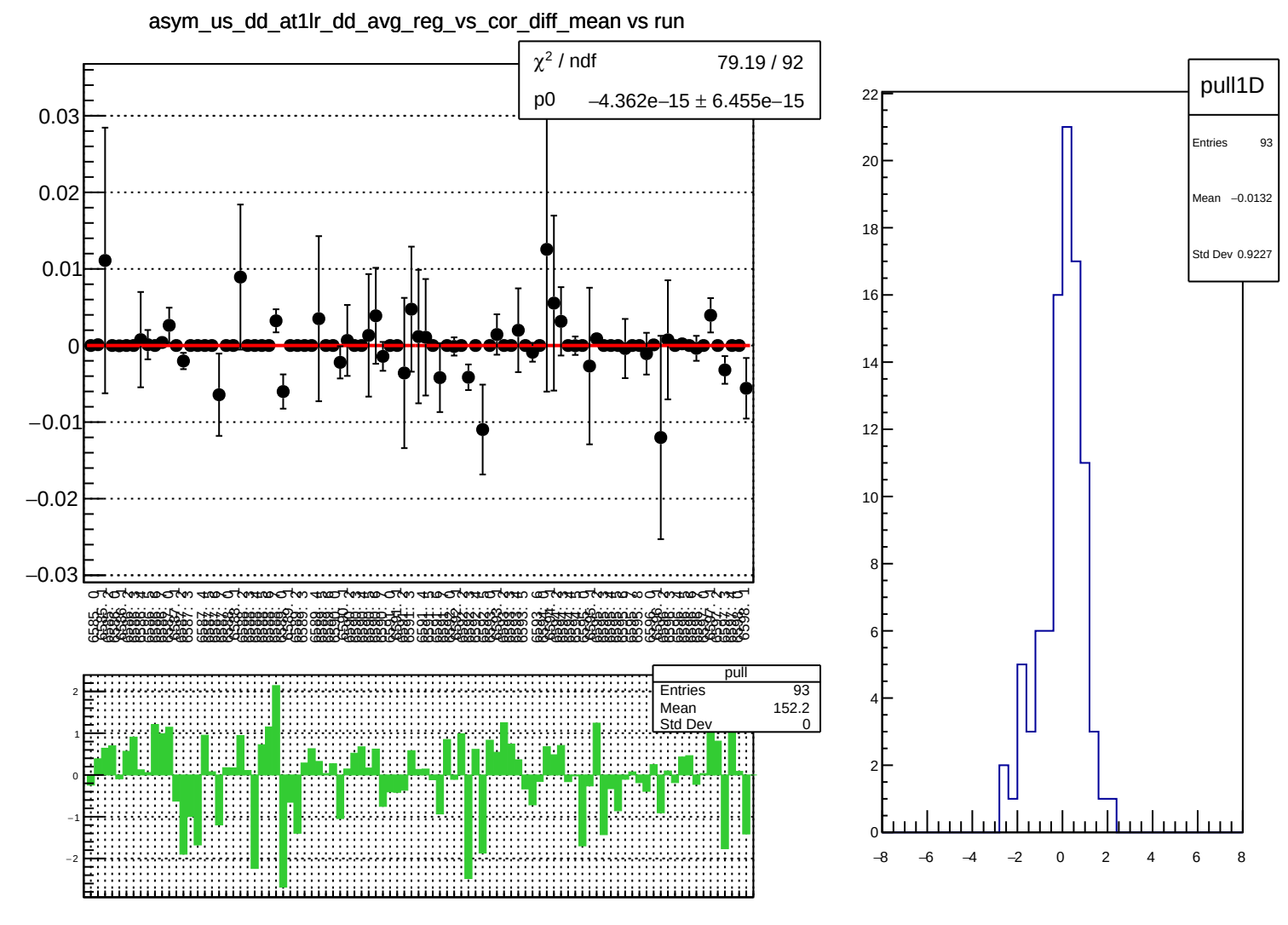

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 104.7 / 92
p0 148.4 ± 185.7
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 352.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001571
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

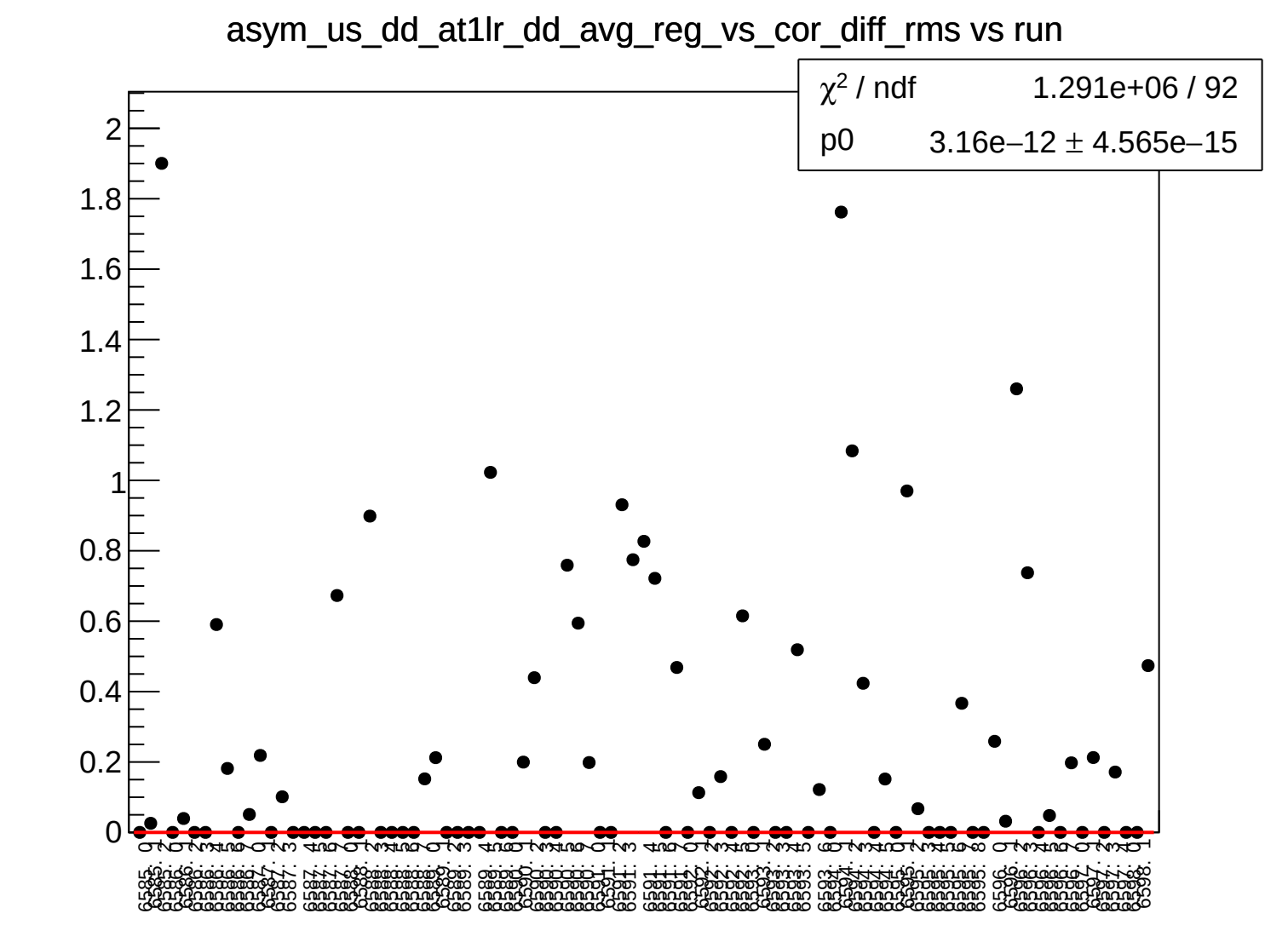

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.25e+04 / 92
p0 174.1 ± 0.1313
220
210
200
190
180
170
160
150

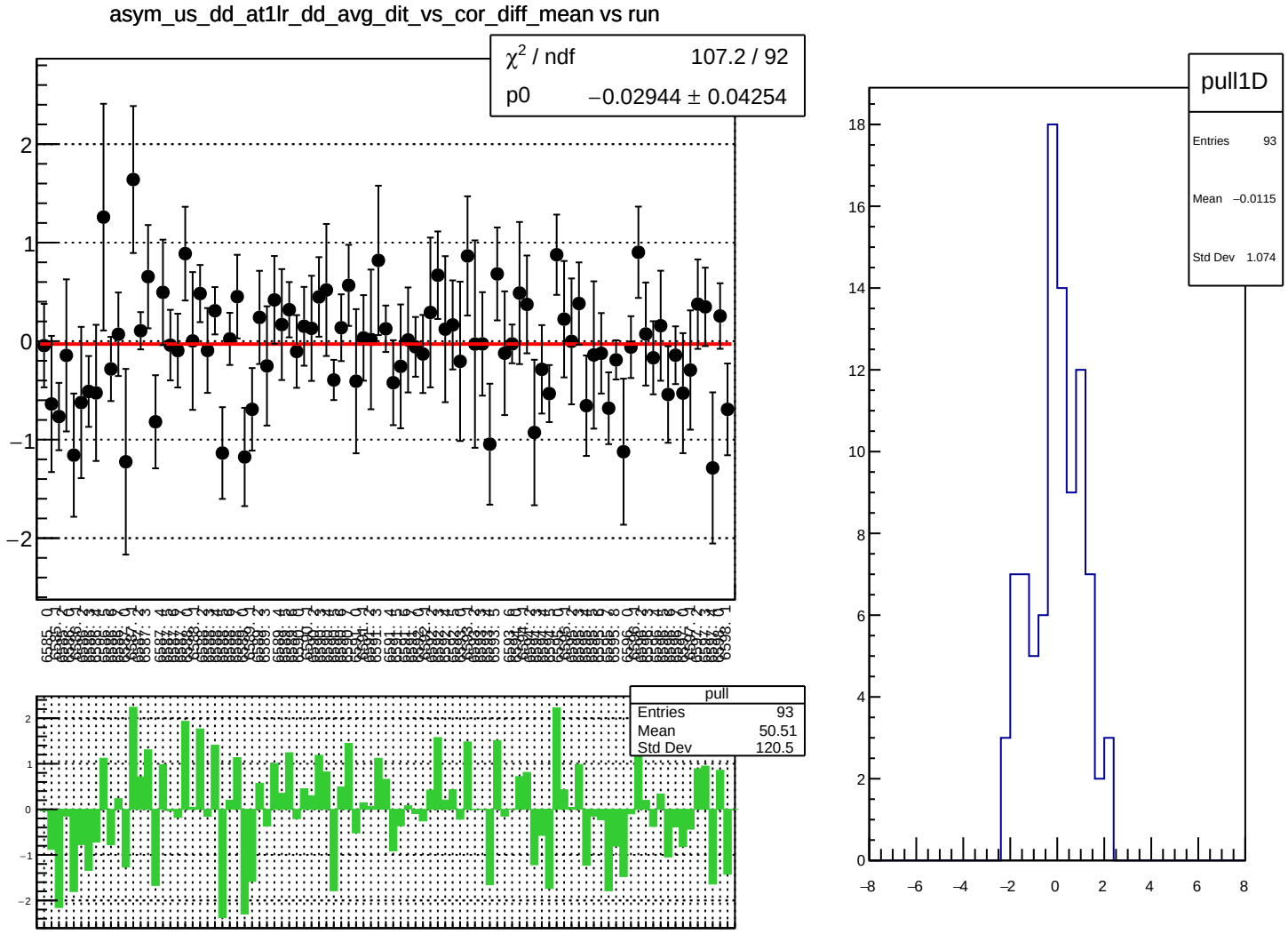

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 70.49 / 92
p0 3527 ± 2321
pull
Entries 93
Mean 383.7
Std Dev 0

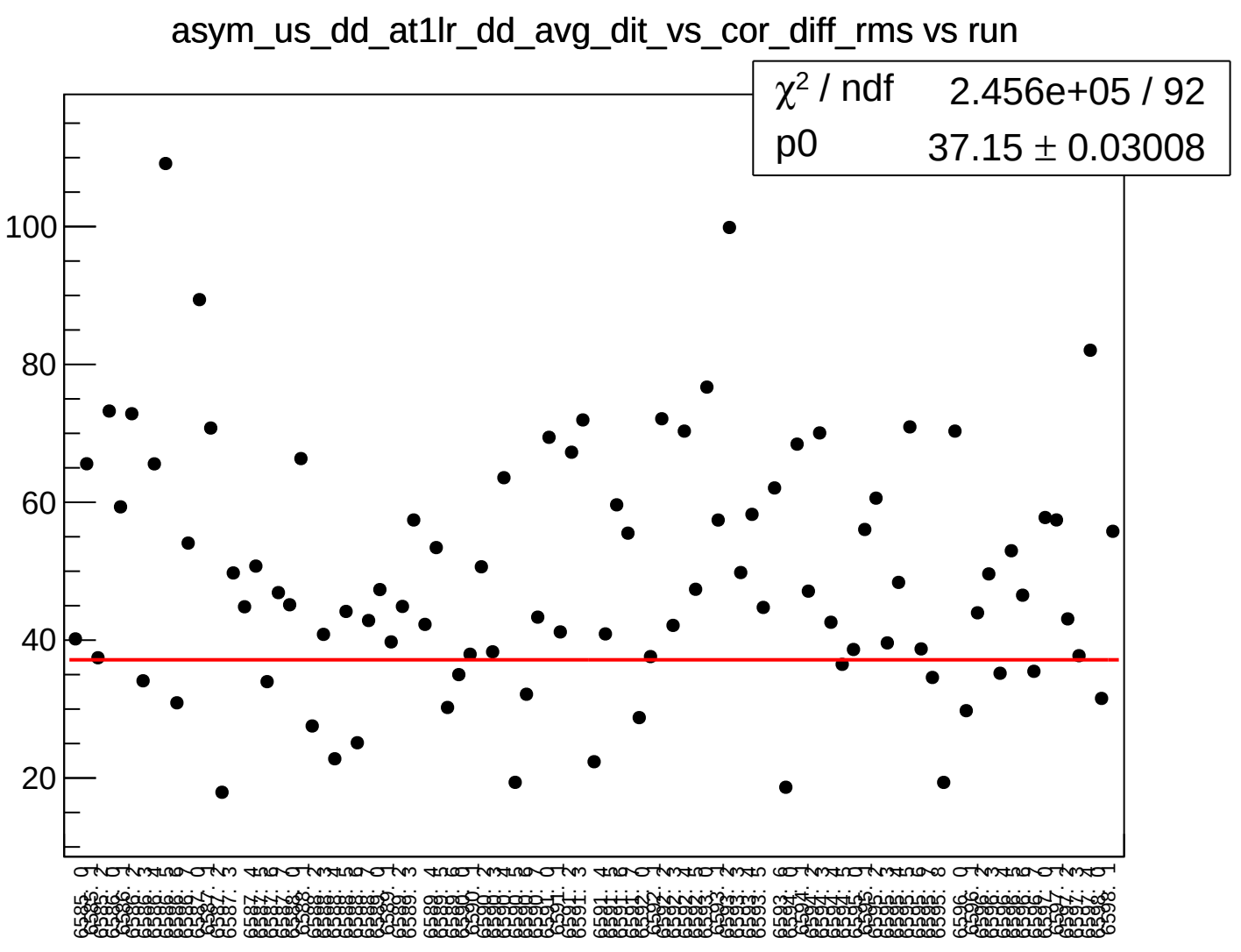

pull1D
Entries 93
Mean 0.00575
Std Dev 0.8706


asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 90.55 / 92
p0 2184 ± 1.641
2240
2220
2200
2180
2160
2140
2120

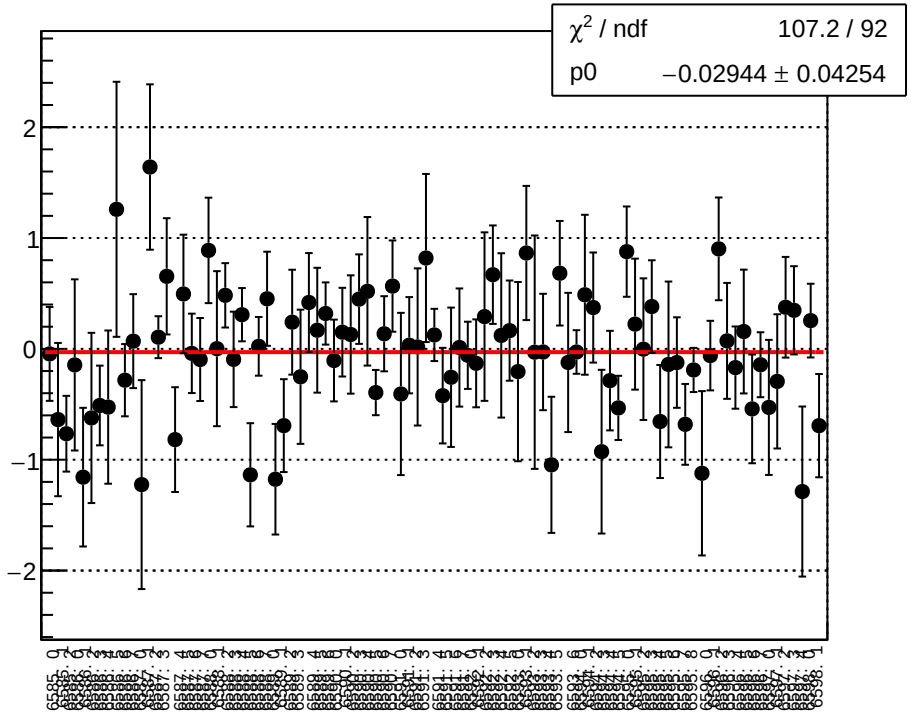

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.19 / 92
p0 −4.362e−15 ± 6.455e−15
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 152.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0132
Std Dev 0.9227
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

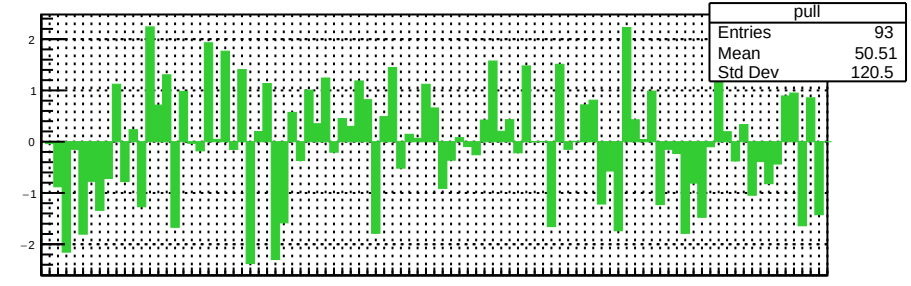

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.291e+06 / 92
p0 3.16e−12 ± 4.565e−15
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

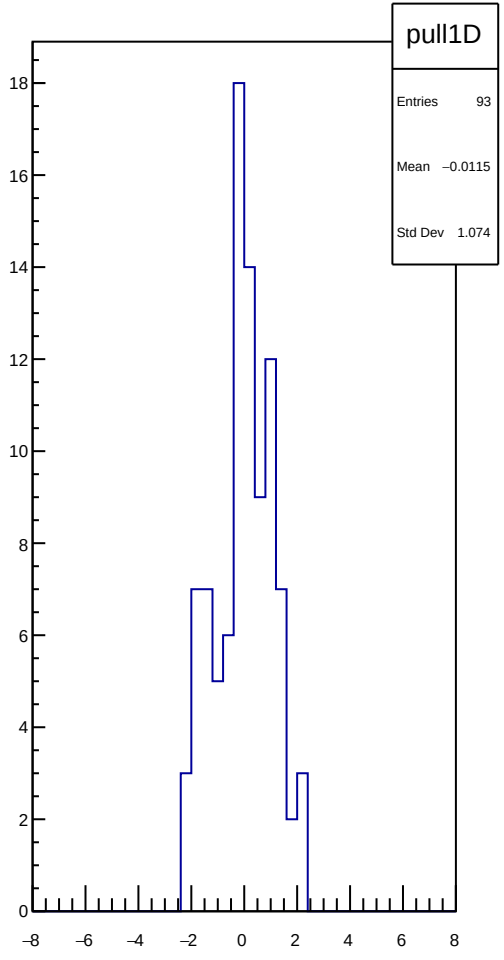

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 92
p0 −0.02944 ± 0.04254
pull
Entries 93
Mean 50.51
Std Dev 120.5
pull1D
Entries 93
Mean −0.0115
Std Dev 1.074

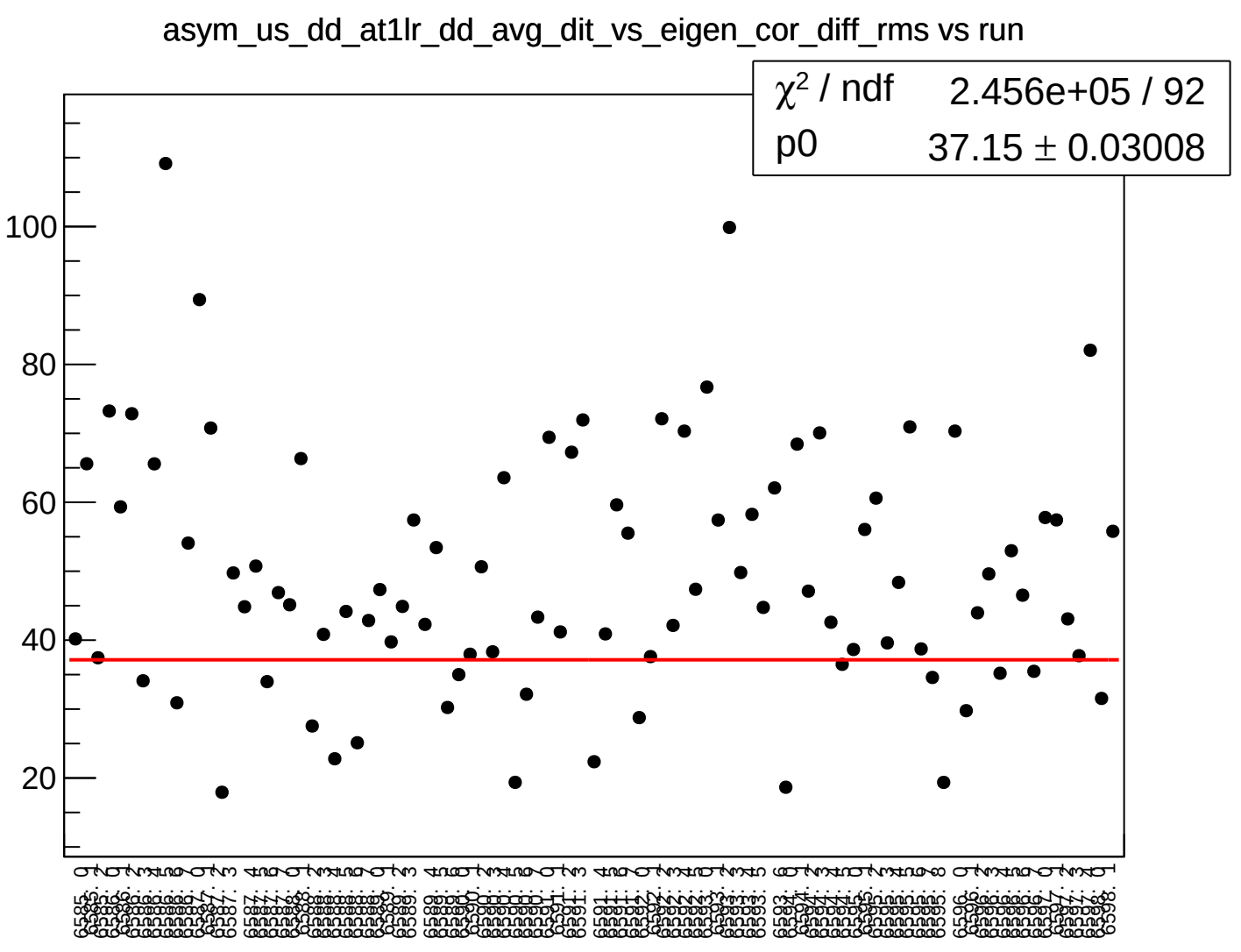

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 92
p0 37.15 ± 0.03008
100
80
60
40
20

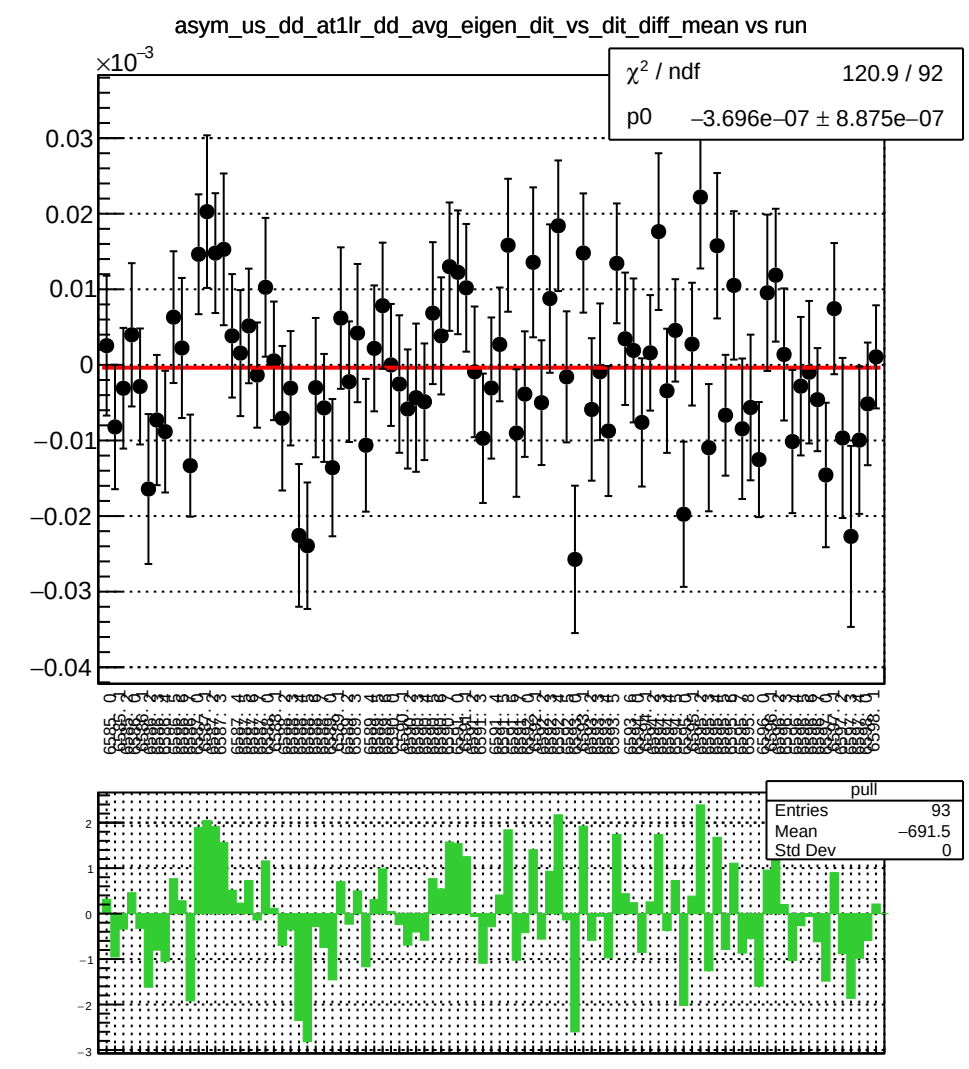
asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run

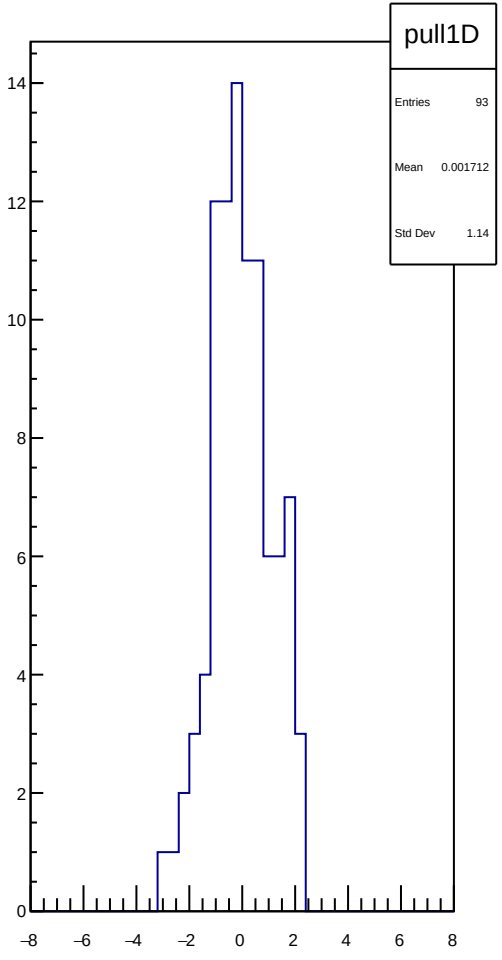


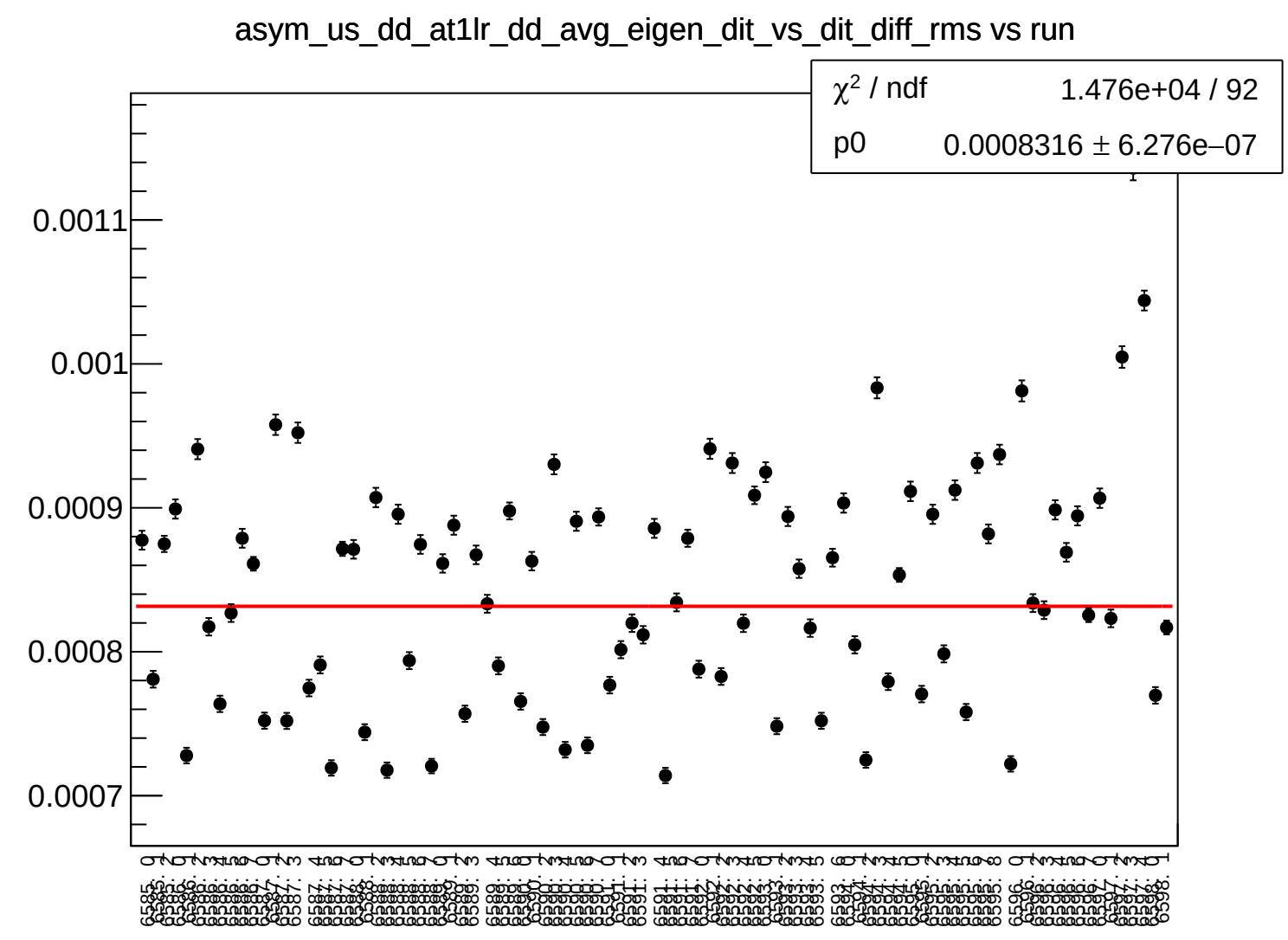




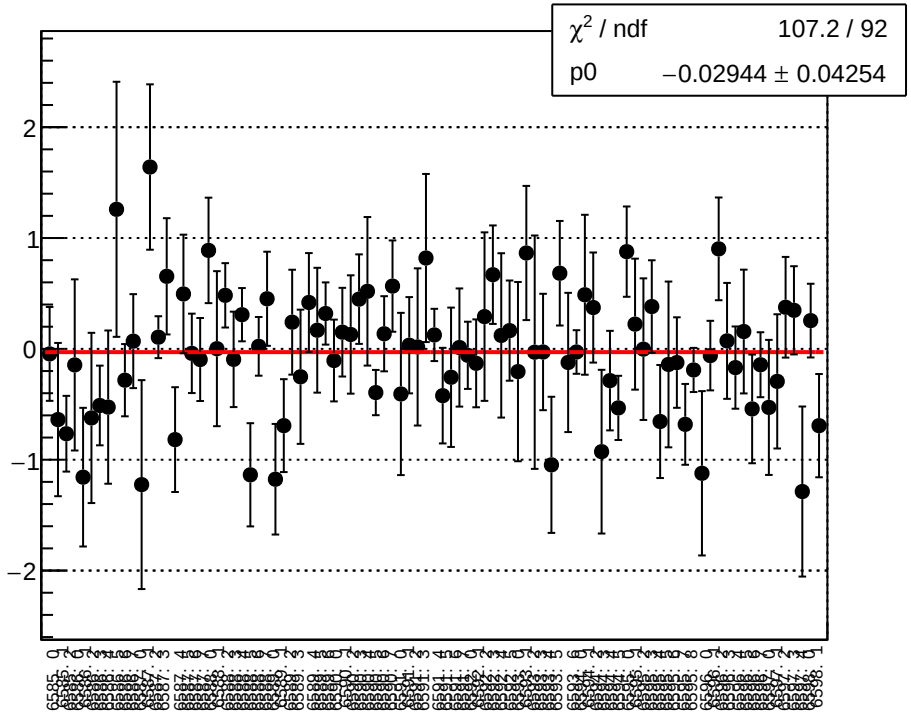

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 92
p0 37.15 ± 0.03008
100
80
60
40
20

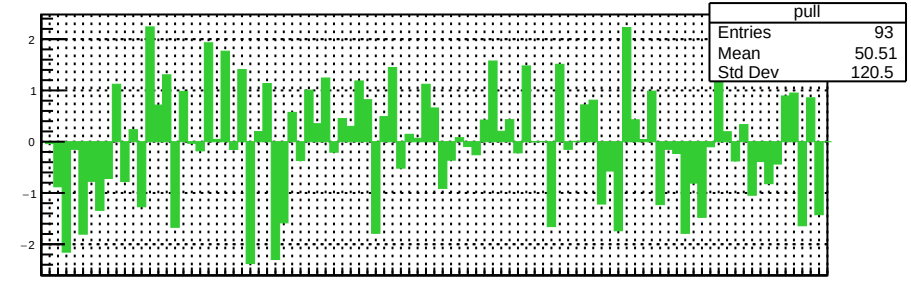

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 120.9 / 92
p0 −3.696e−07 ± 8.875e−07
pull
Entries 93
Mean −691.5
Std Dev 0

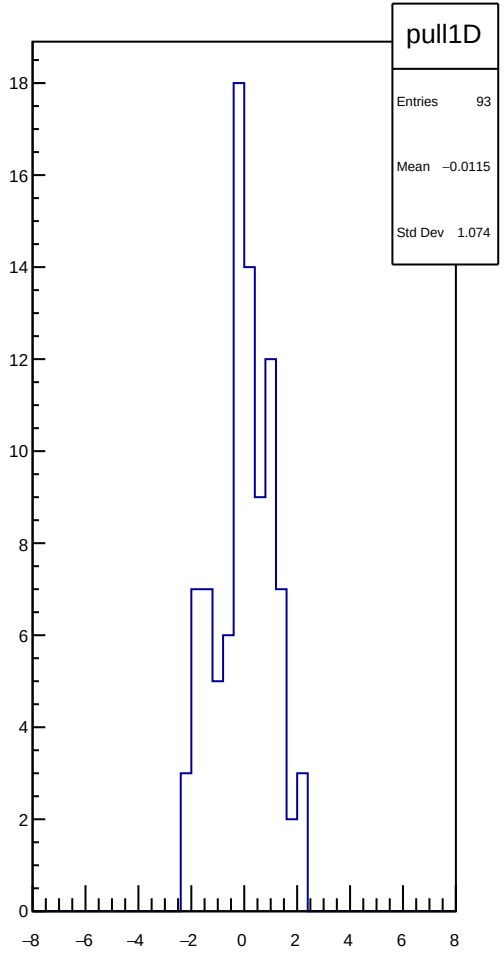

pull1D
Entries 93
Mean 0.001712
Std Dev 1.14

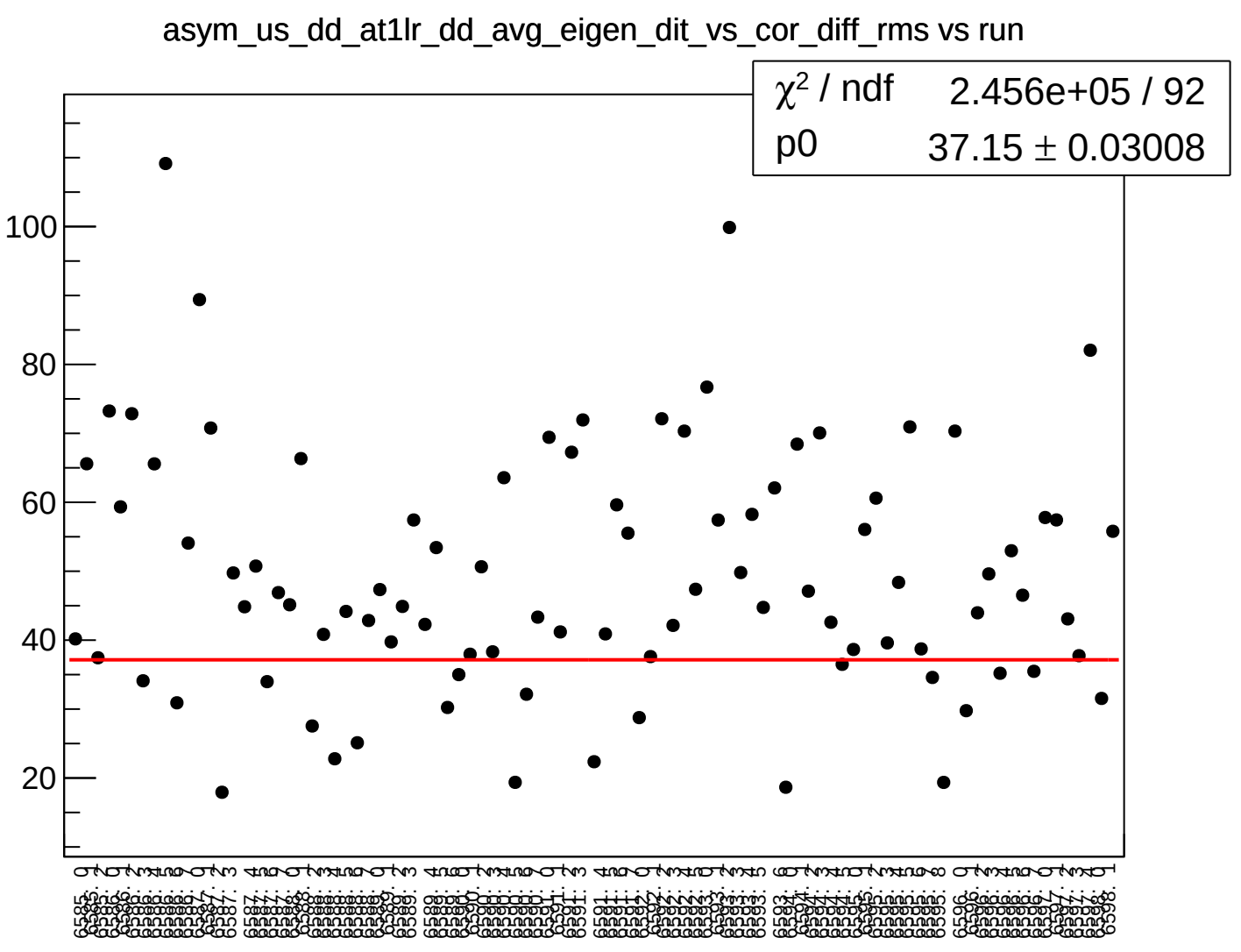

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.476e+04 / 92
p0 0.0008316 ± 6.276e−07
0.0011
0.001
0.0009
0.0008
0.0007

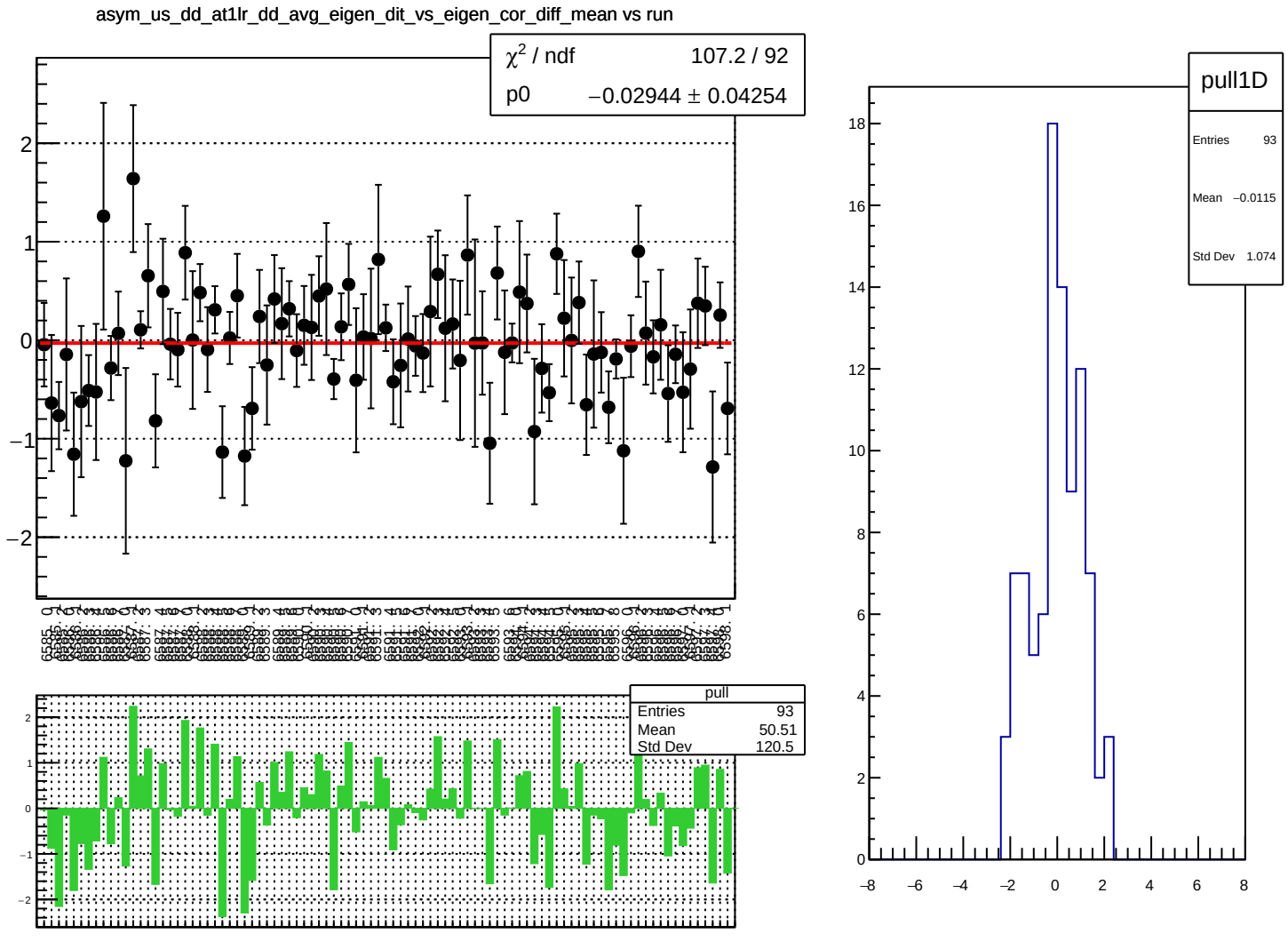
asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

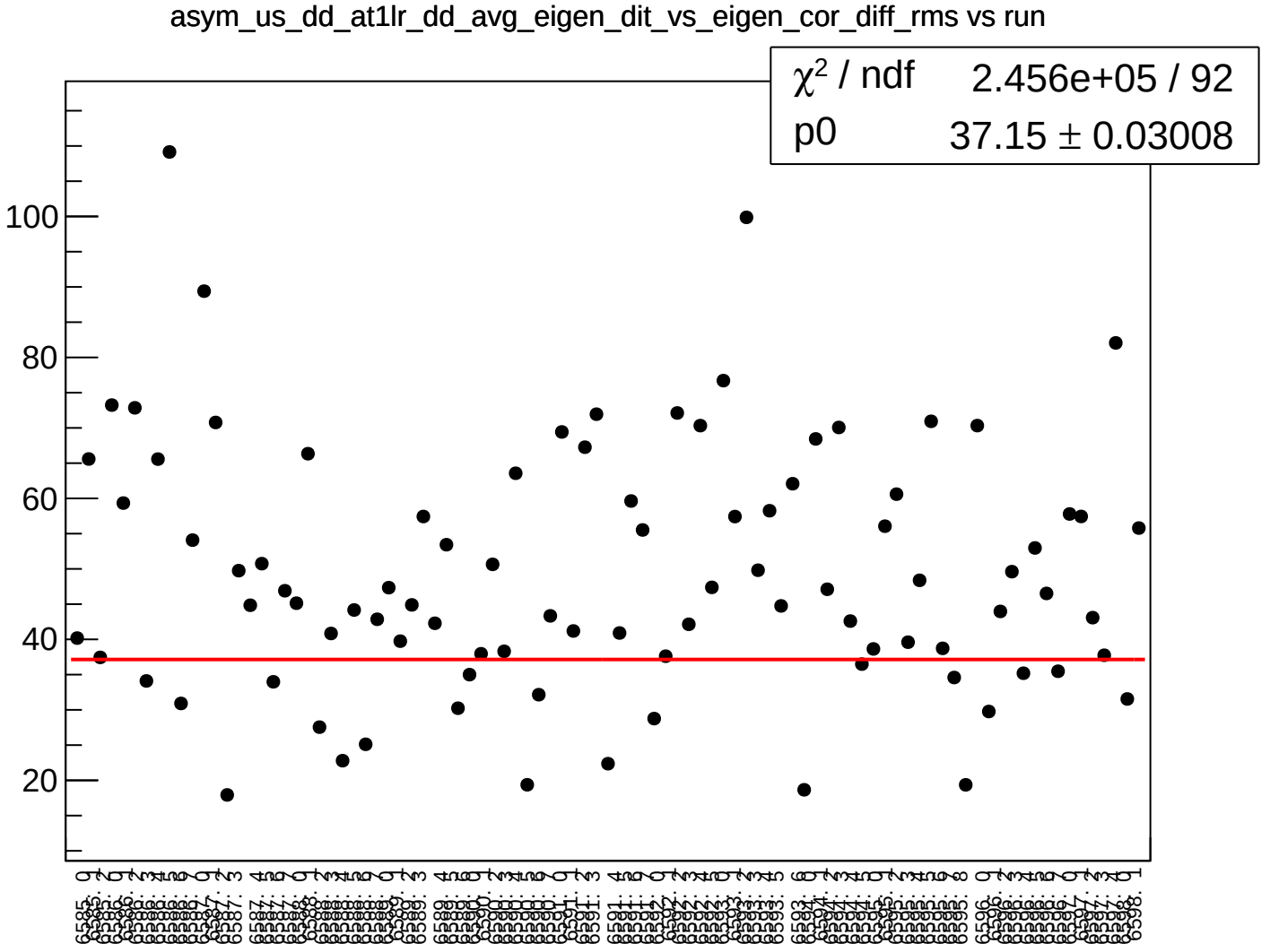


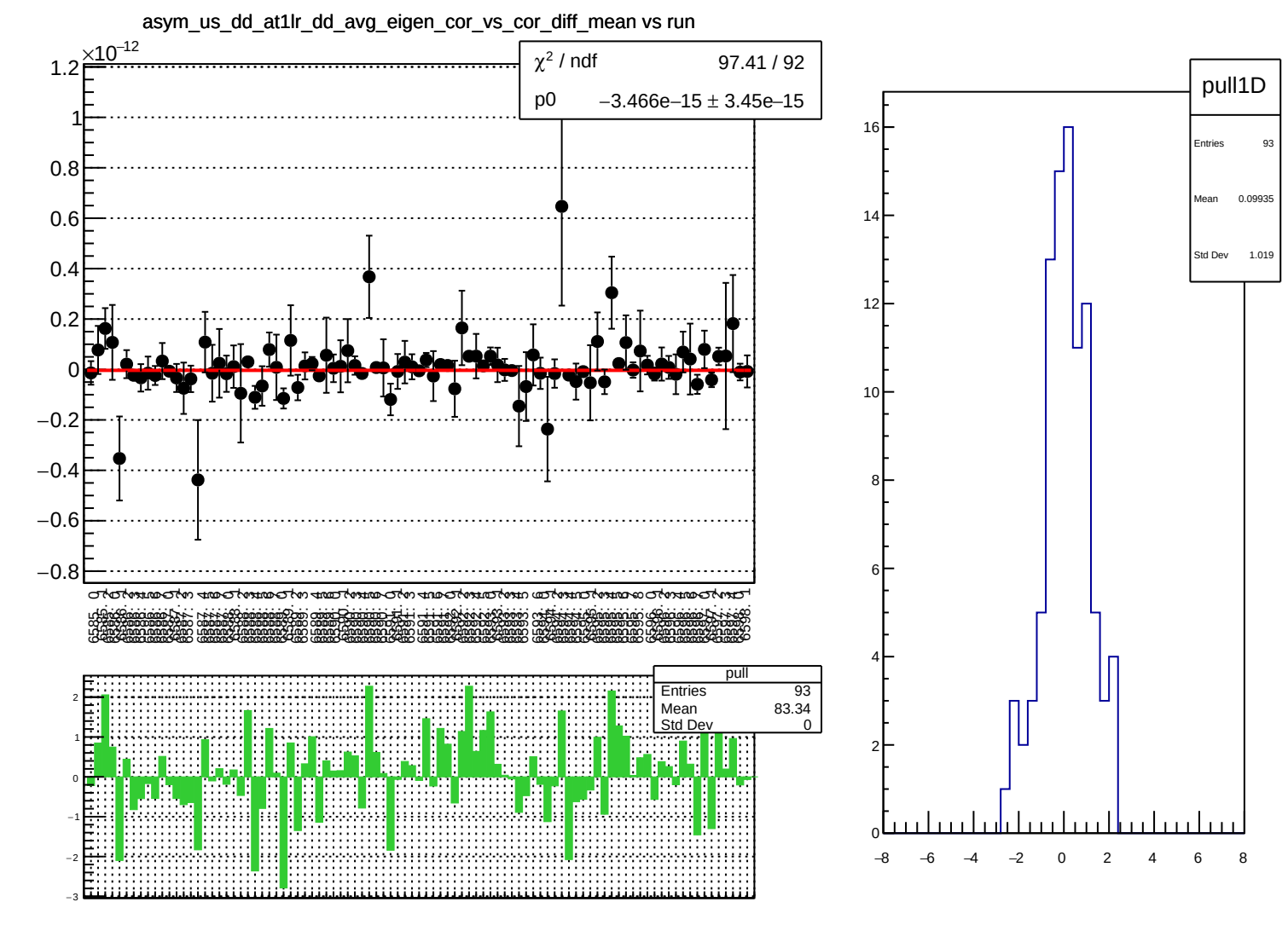


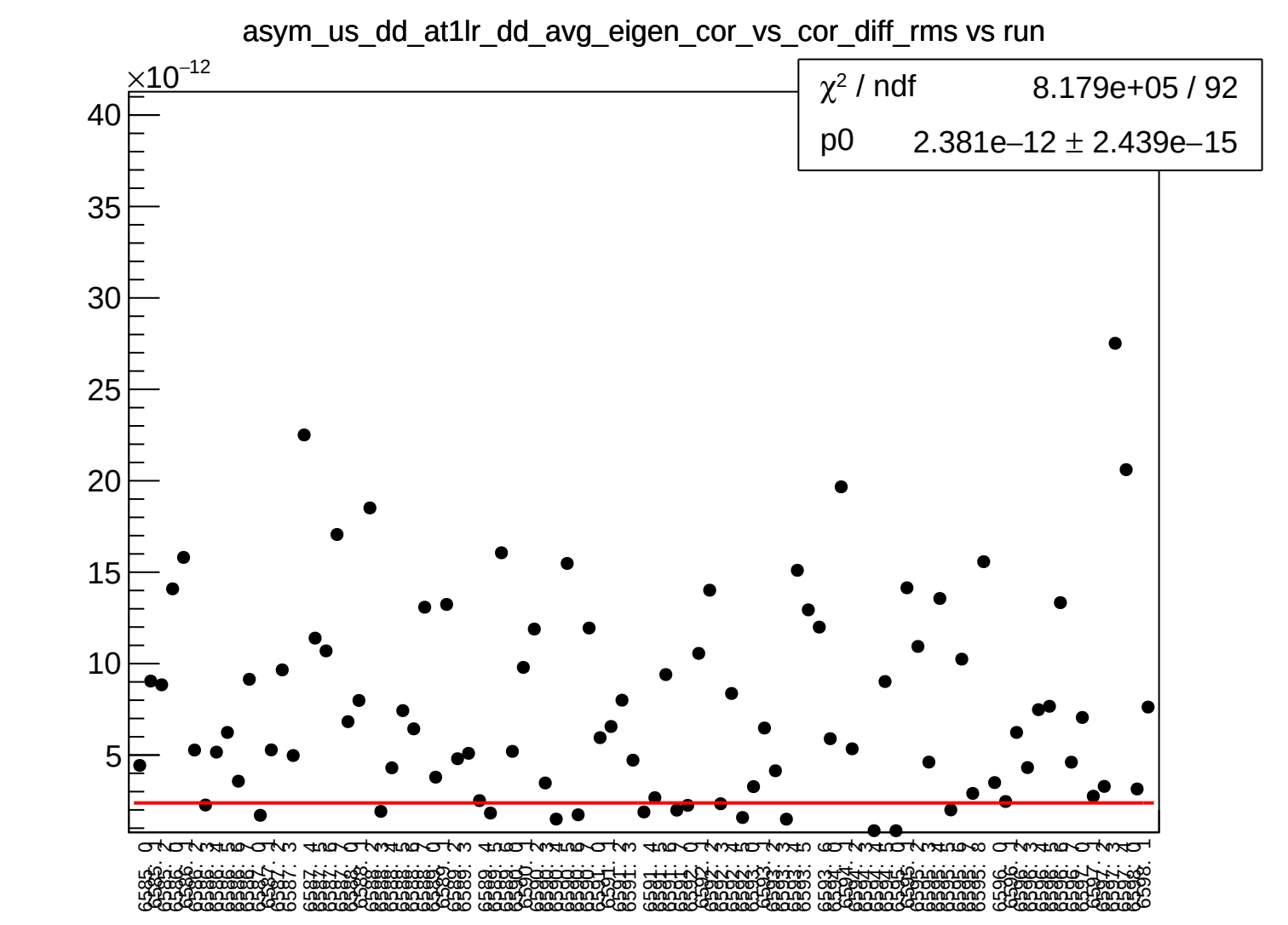


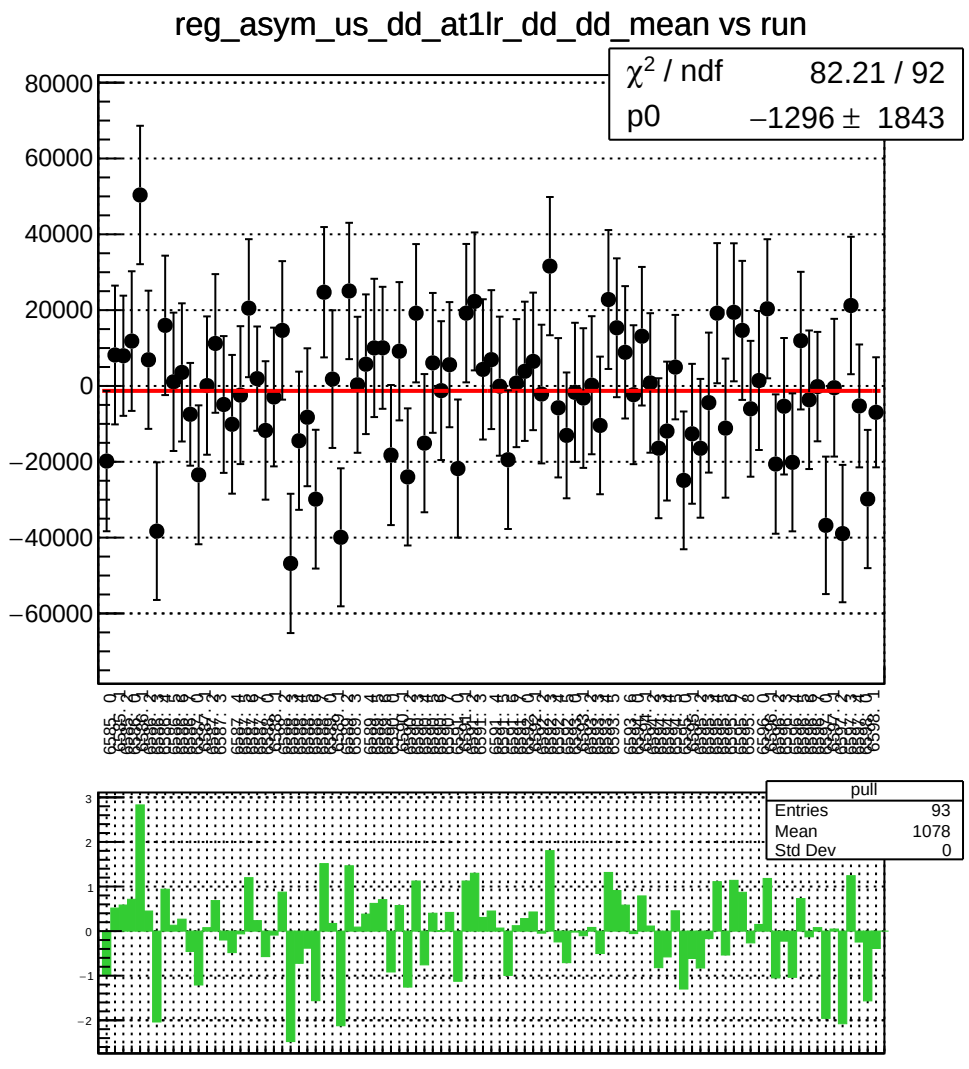

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 92
p0 37.15 ± 0.03008
100
80
60
40
20

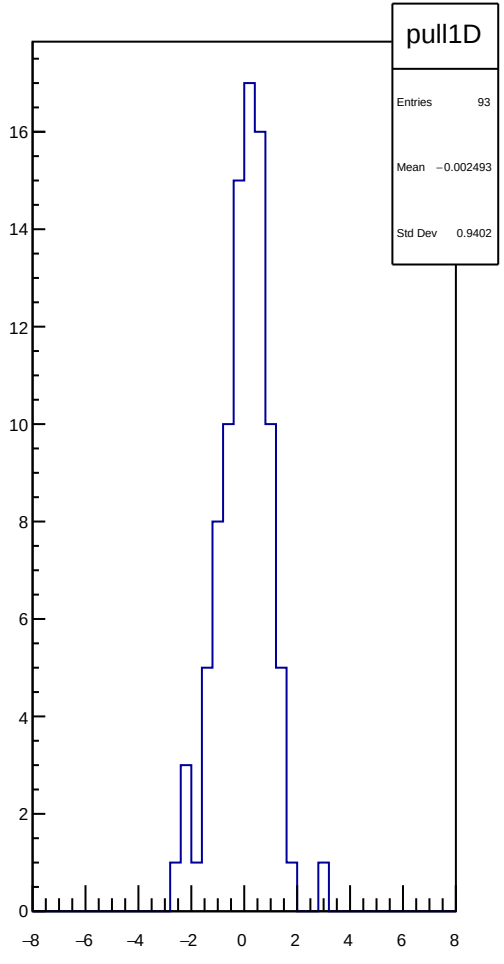

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 92
p0 −0.02944 ± 0.04254
pull
Entries 93
Mean 50.51
Std Dev 120.5
pull1D
Entries 93
Mean −0.0115
Std Dev 1.074

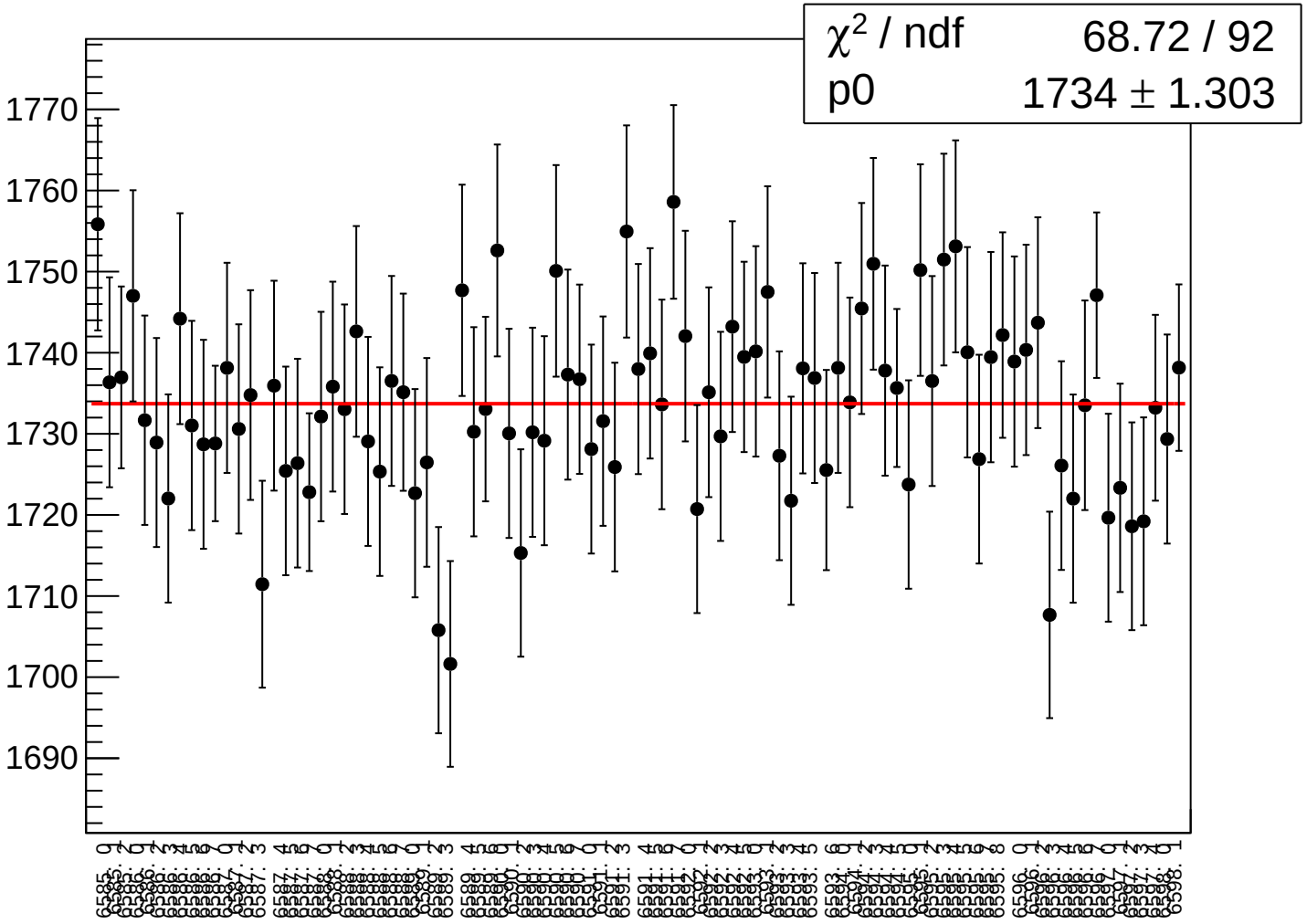

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.456e+05 / 92
p0 37.15 ± 0.03008
100
80
60
40
20

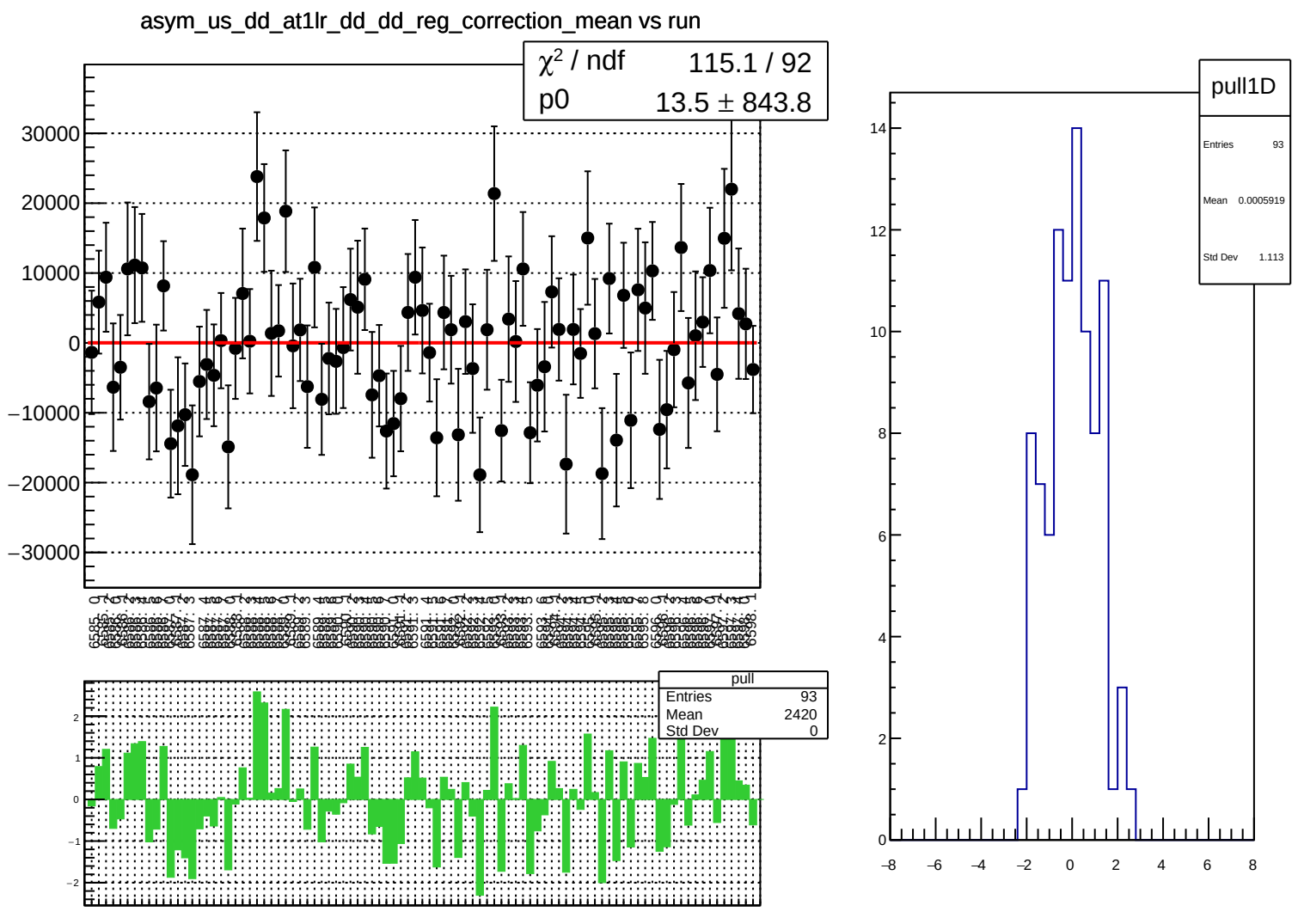

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.41 / 92
p0 −3.466e−15 ± 3.45e−15
pull
Entries 93
Mean 83.34
Std Dev 0
pull1D
Entries 93
Mean 0.09935
Std Dev 1.019

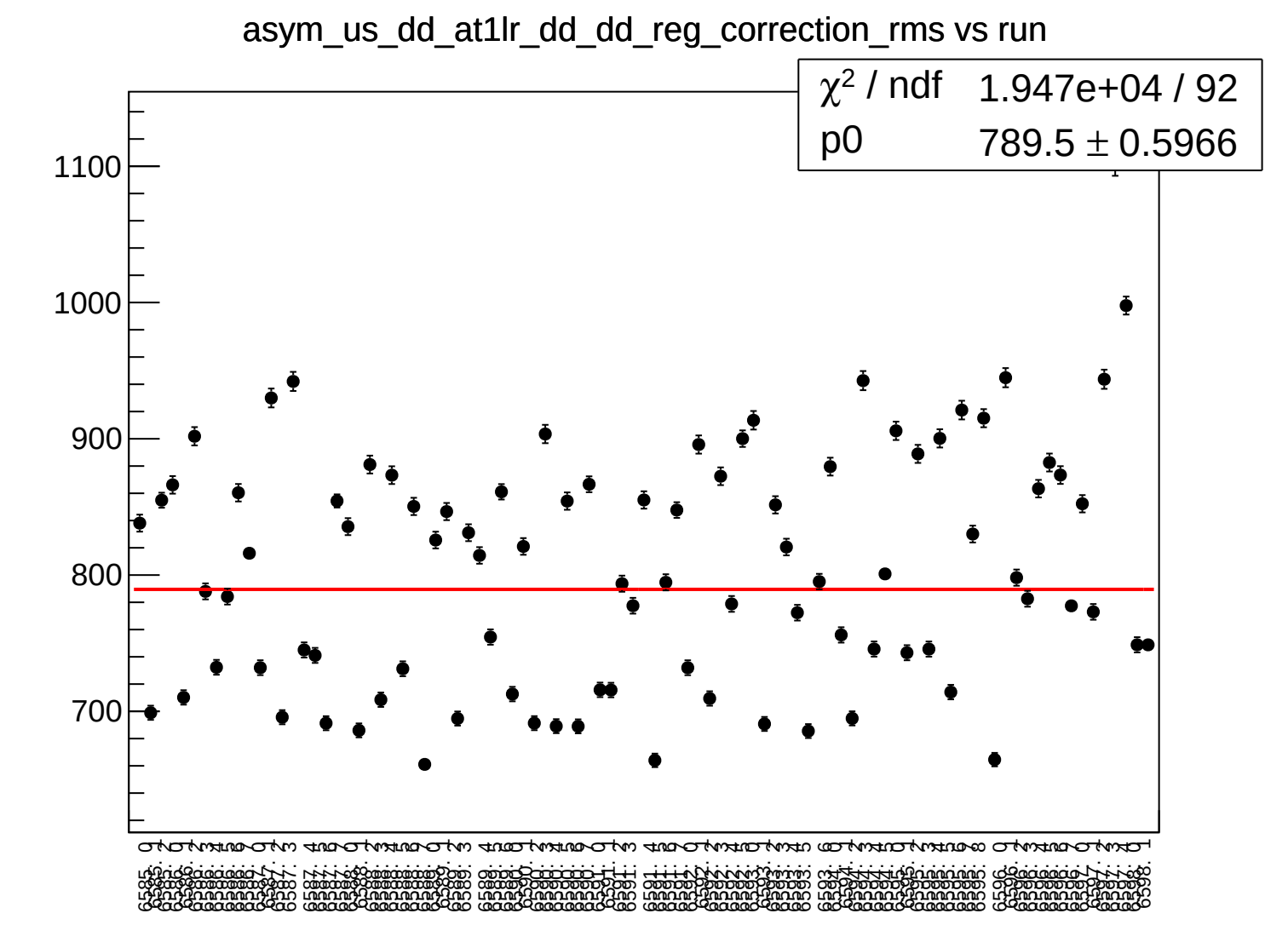

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
40
35
30
25
20
15
10
5
χ² / ndf 8.179e+05 / 92
p0 2.381e−12 ± 2.439e−15

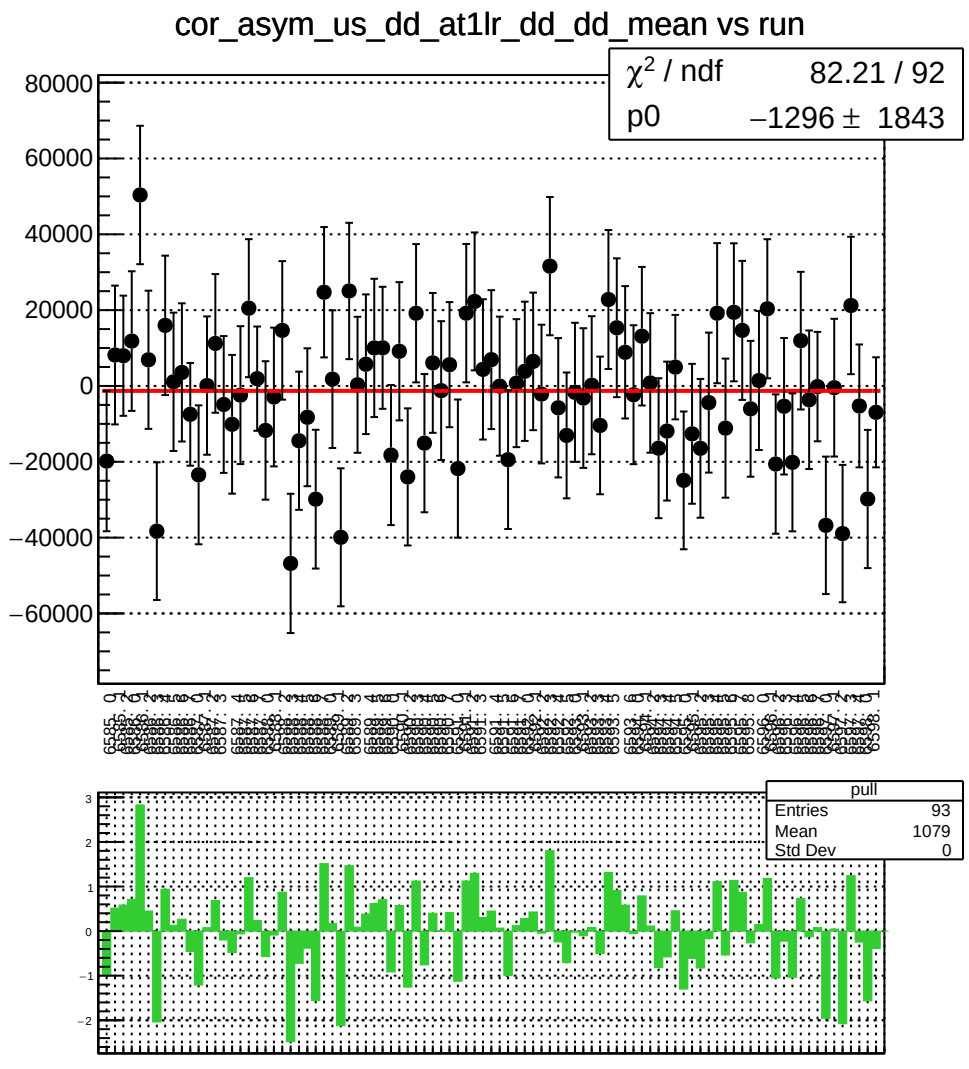

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.21 / 92
p0 −1296 ± 1843
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1078
Std Dev 0
3
2
1
0
−1
−2

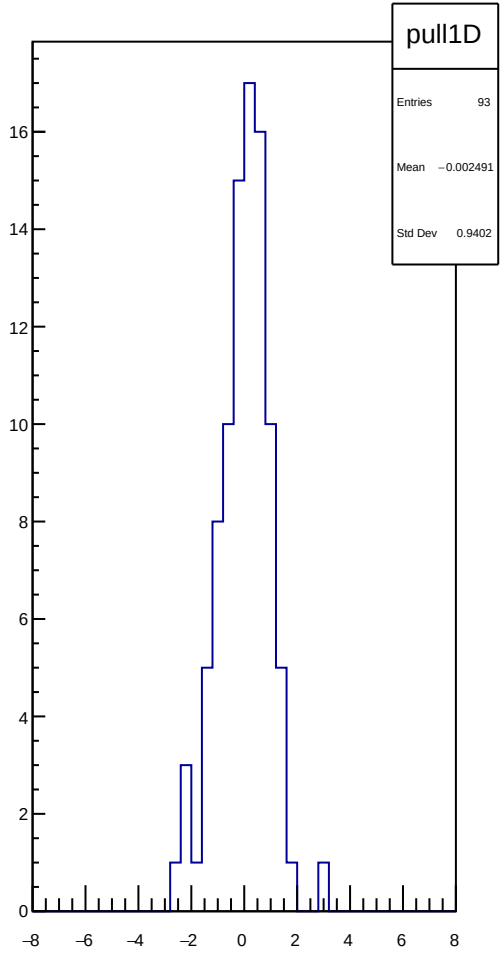

pull1D
Entries 93
Mean −0.002493
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

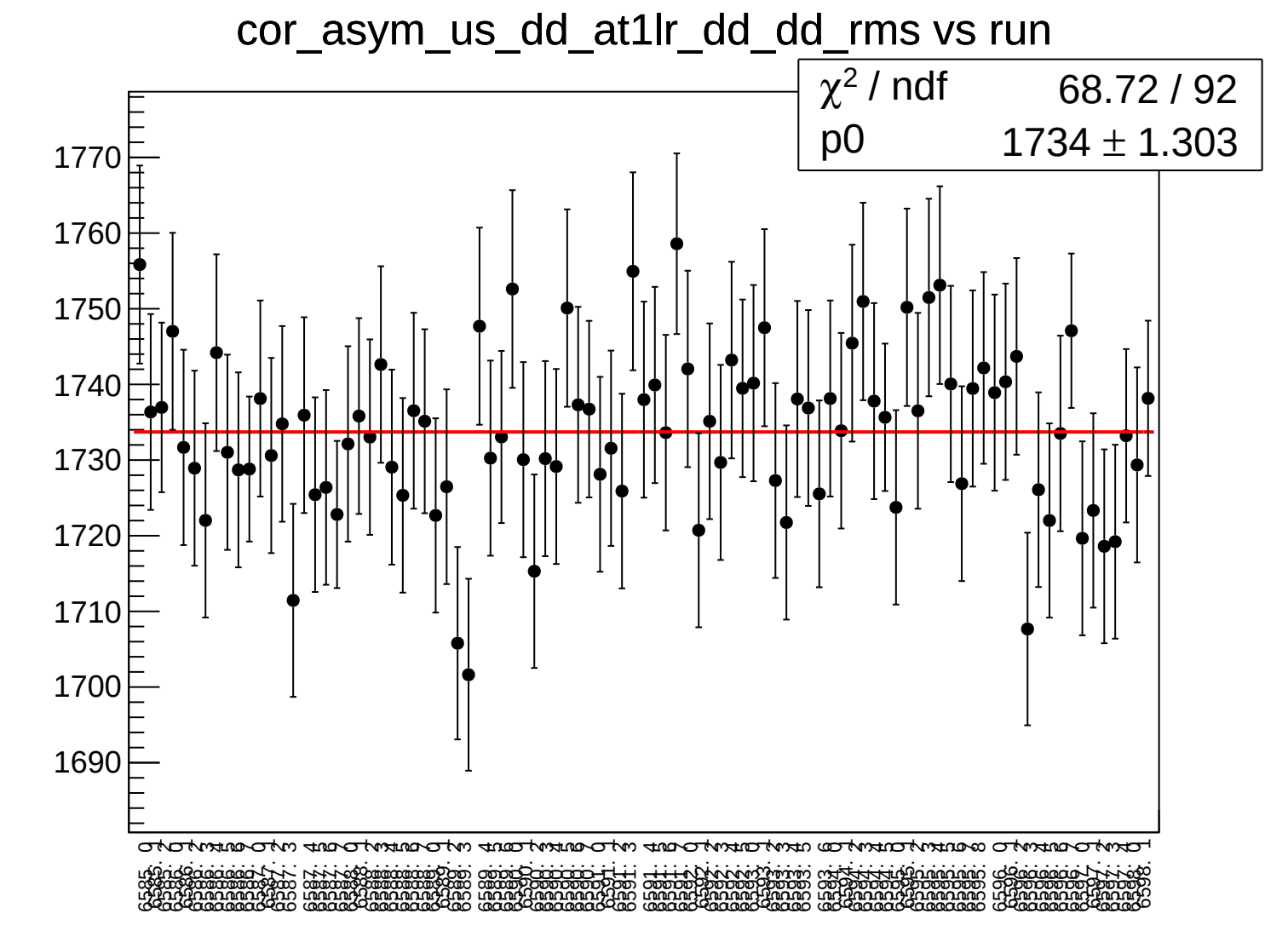

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 68.72 / 92
p0 1734 ± 1.303
1770
1760
1750
1740
1730
1720
1710
1700
1690

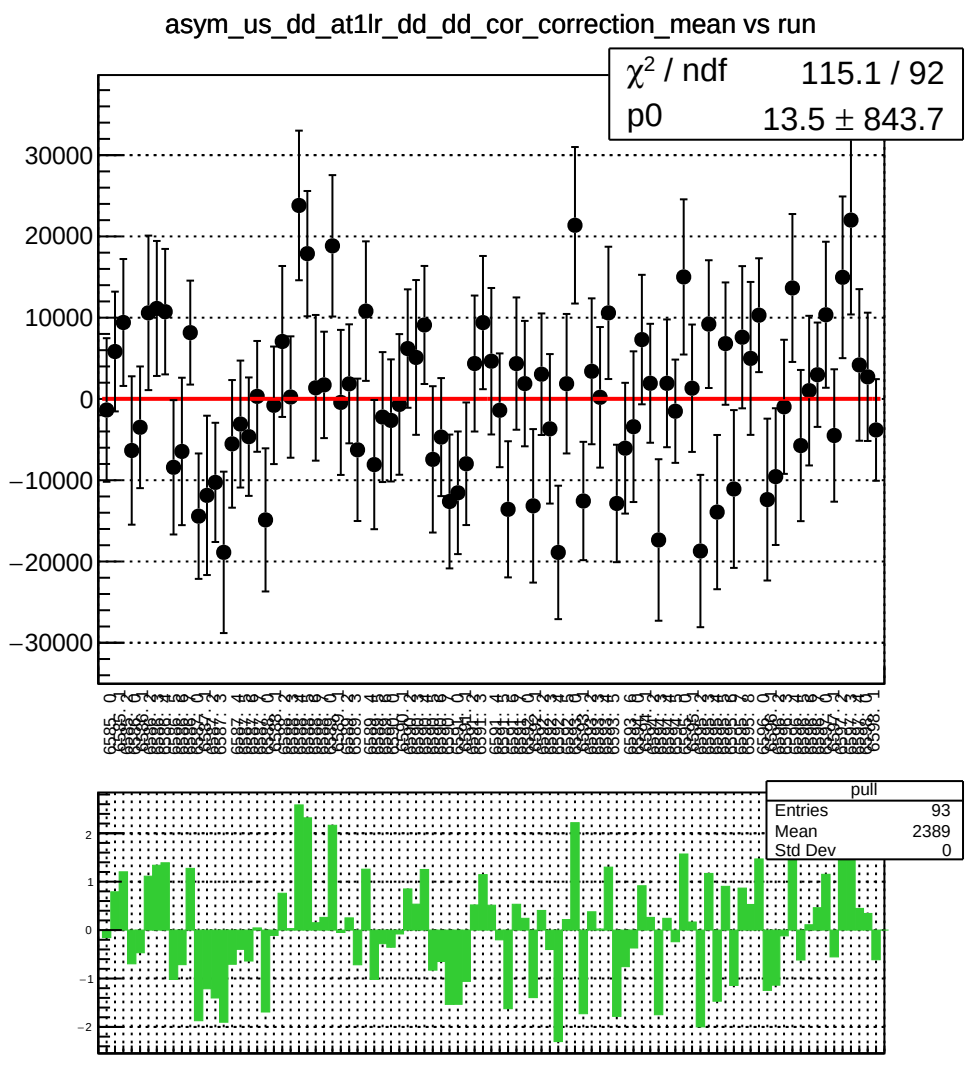

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 115.1 / 92
p0 13.5 ± 843.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 2420
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0005919
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

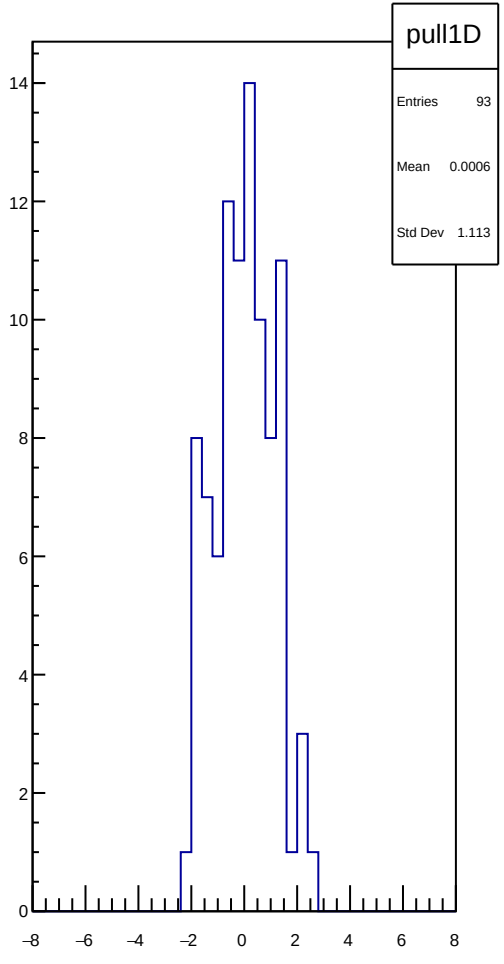

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.947e+04 / 92
p0 789.5 ± 0.5966
1100
1000
900
800
700

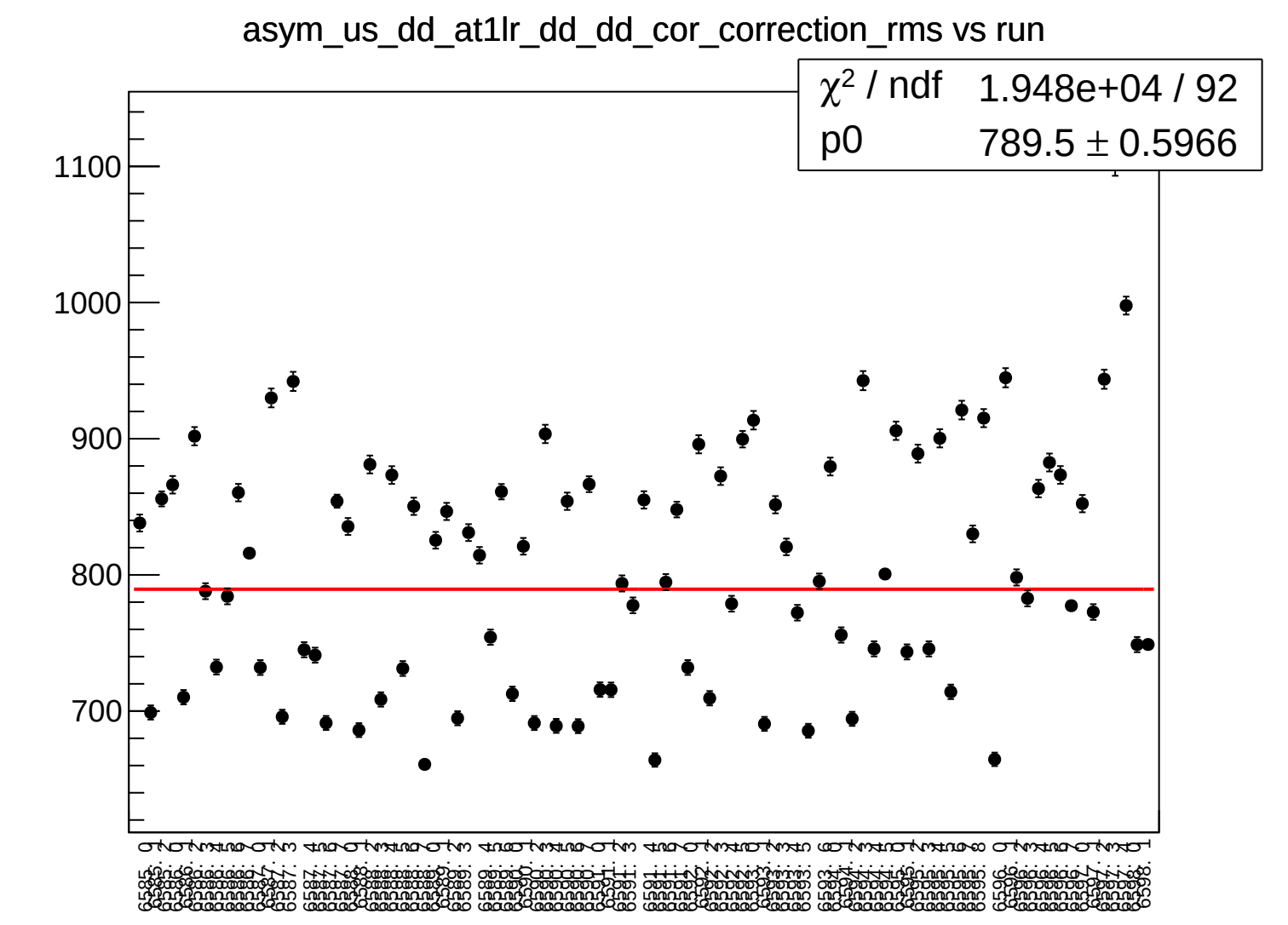

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.21 / 92
p0 −1296 ± 1843
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1079
Std Dev 0
3
2
1
0
−1
−2

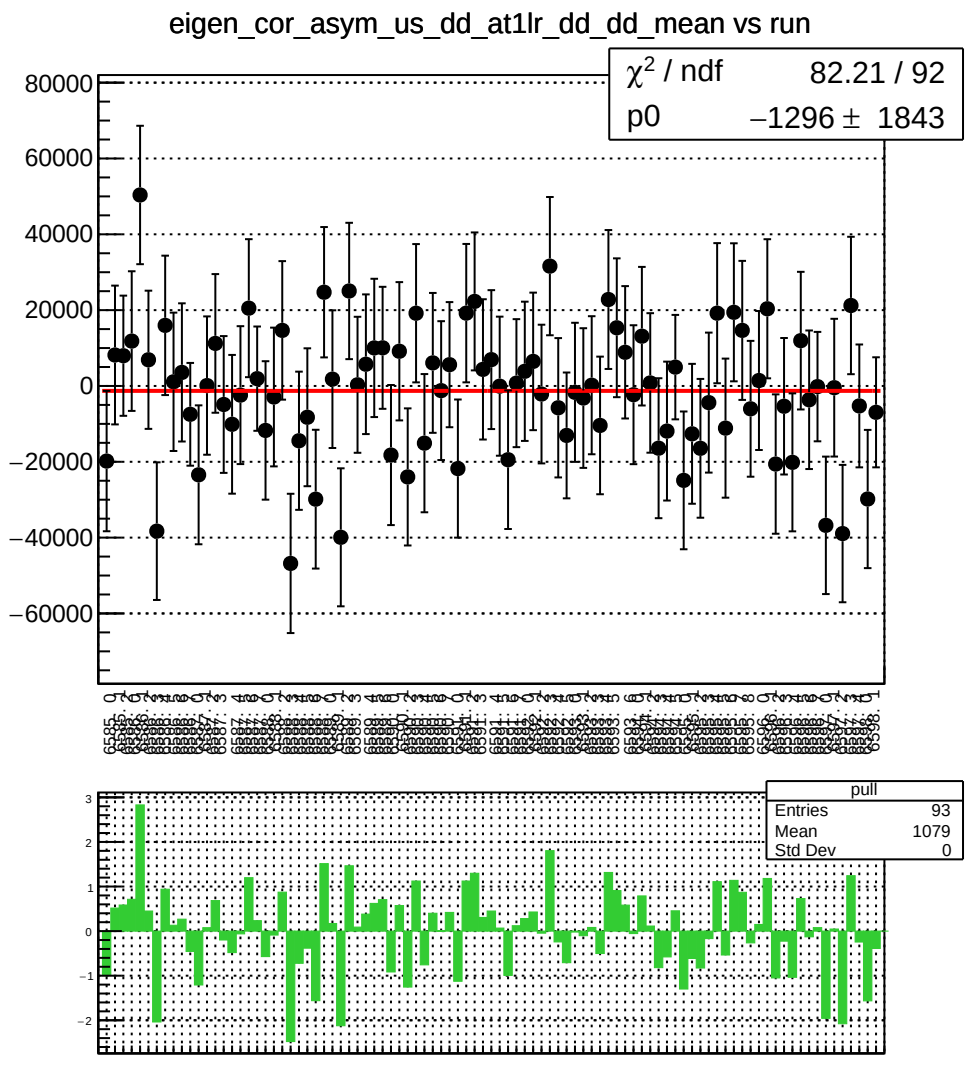

pull1D
Entries 93
Mean −0.002491
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

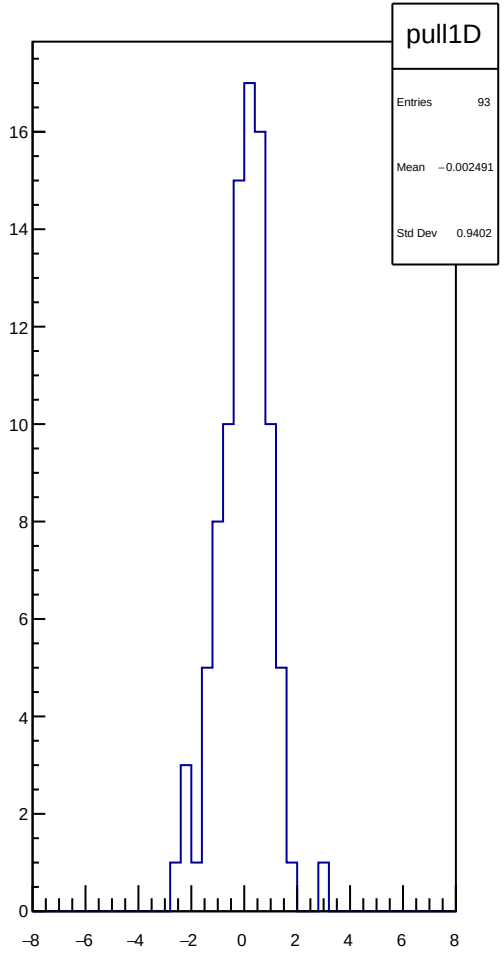

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 68.72 / 92
p0 1734 ± 1.303
1770
1760
1750
1740
1730
1720
1710
1700
1690

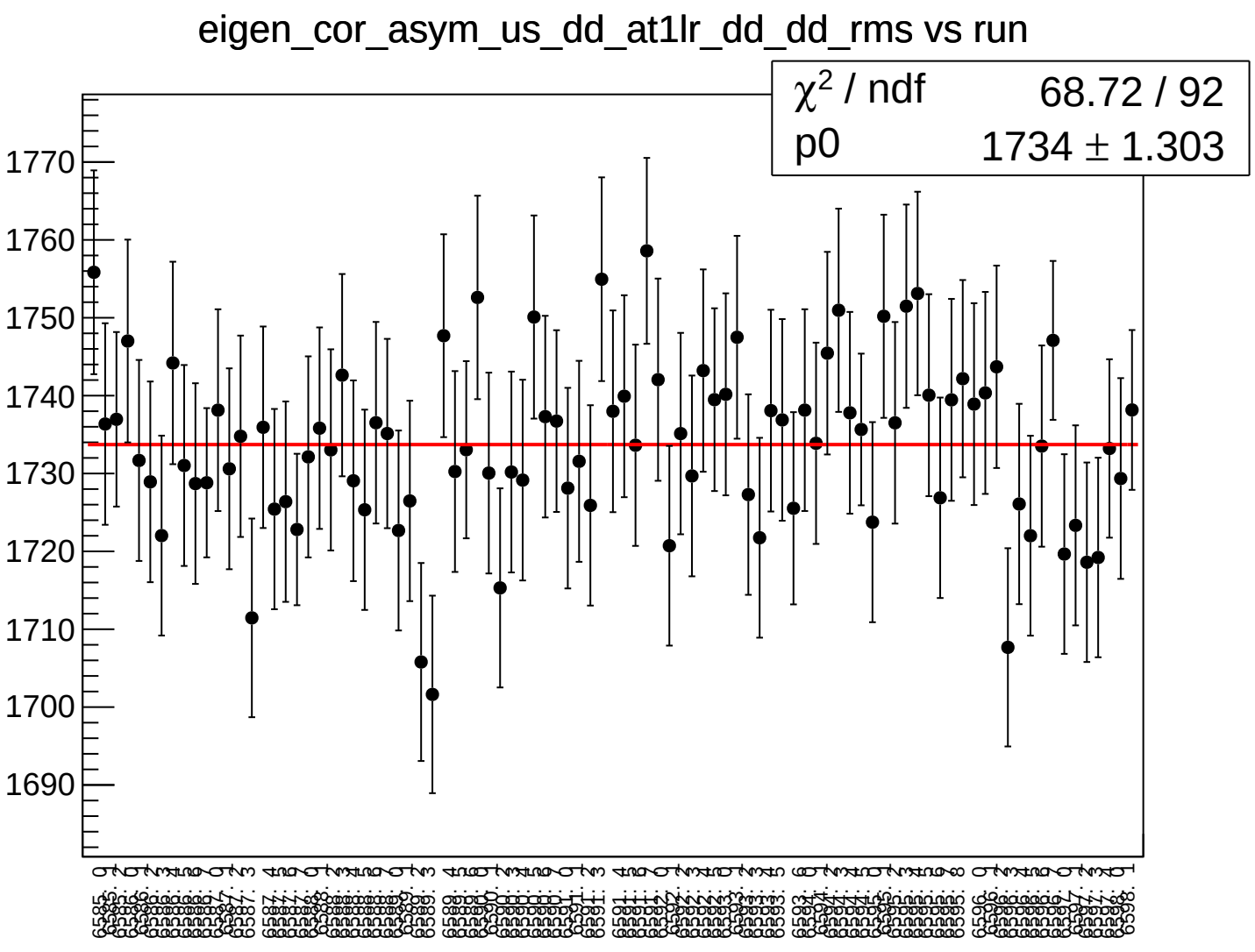

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 115.1 / 92
p0 13.5 ± 843.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 2389
Std Dev 0
2
1
0
−1
−2

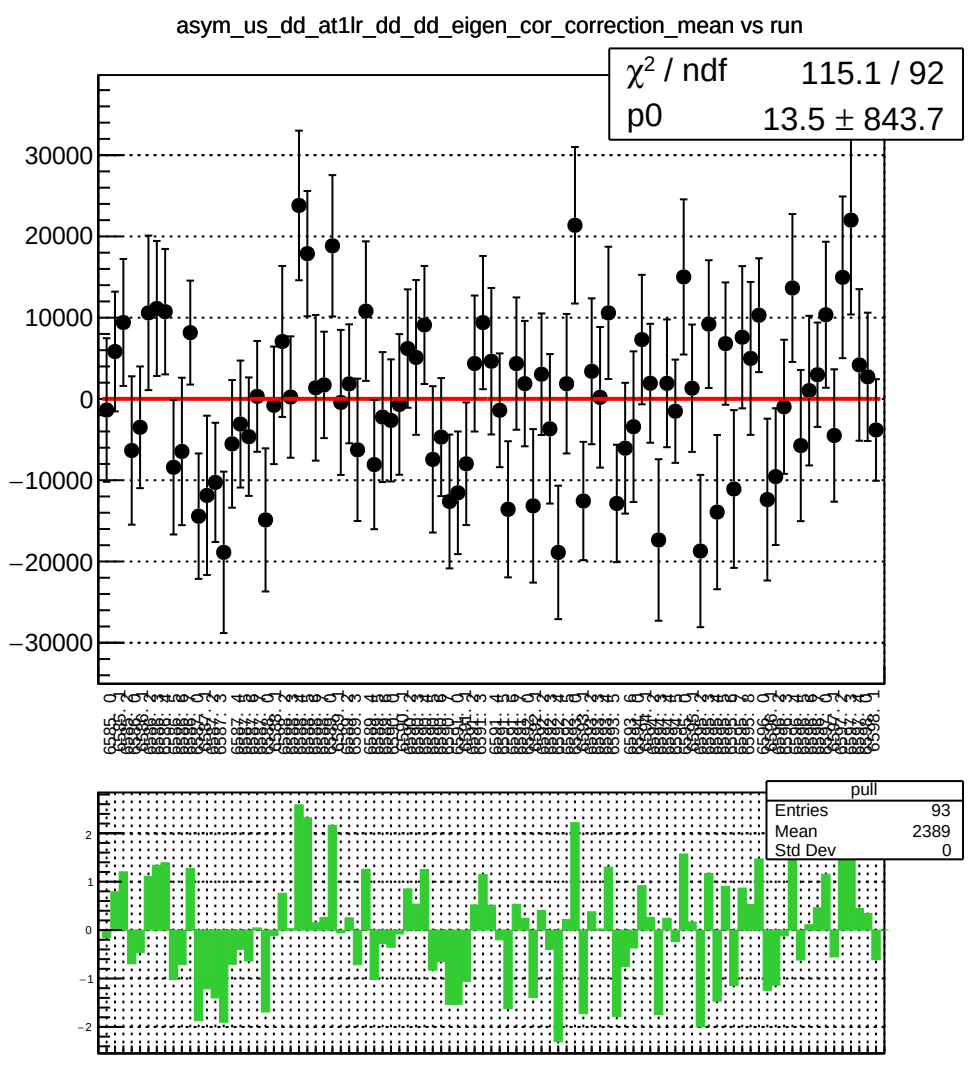

pull1D
Entries 93
Mean 0.0006
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

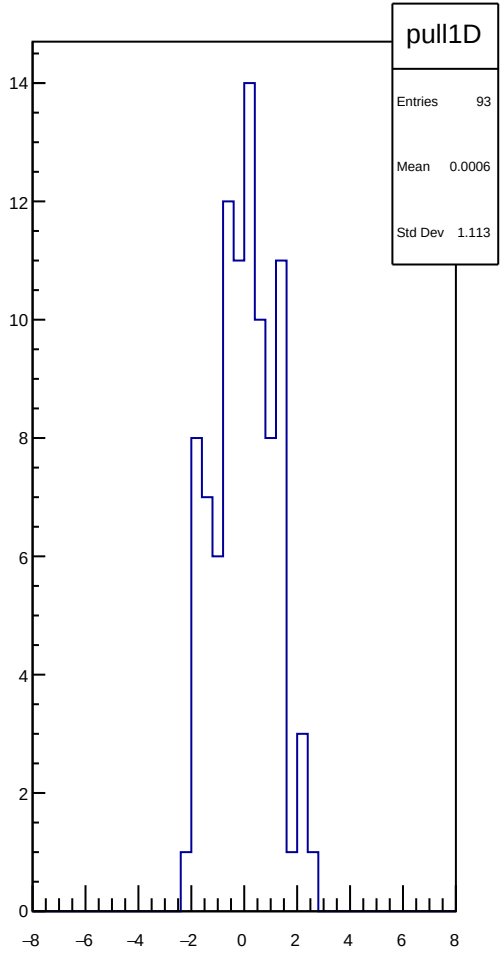

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.948e+04 / 92
p0 789.5 ± 0.5966
1100
1000
900
800
700

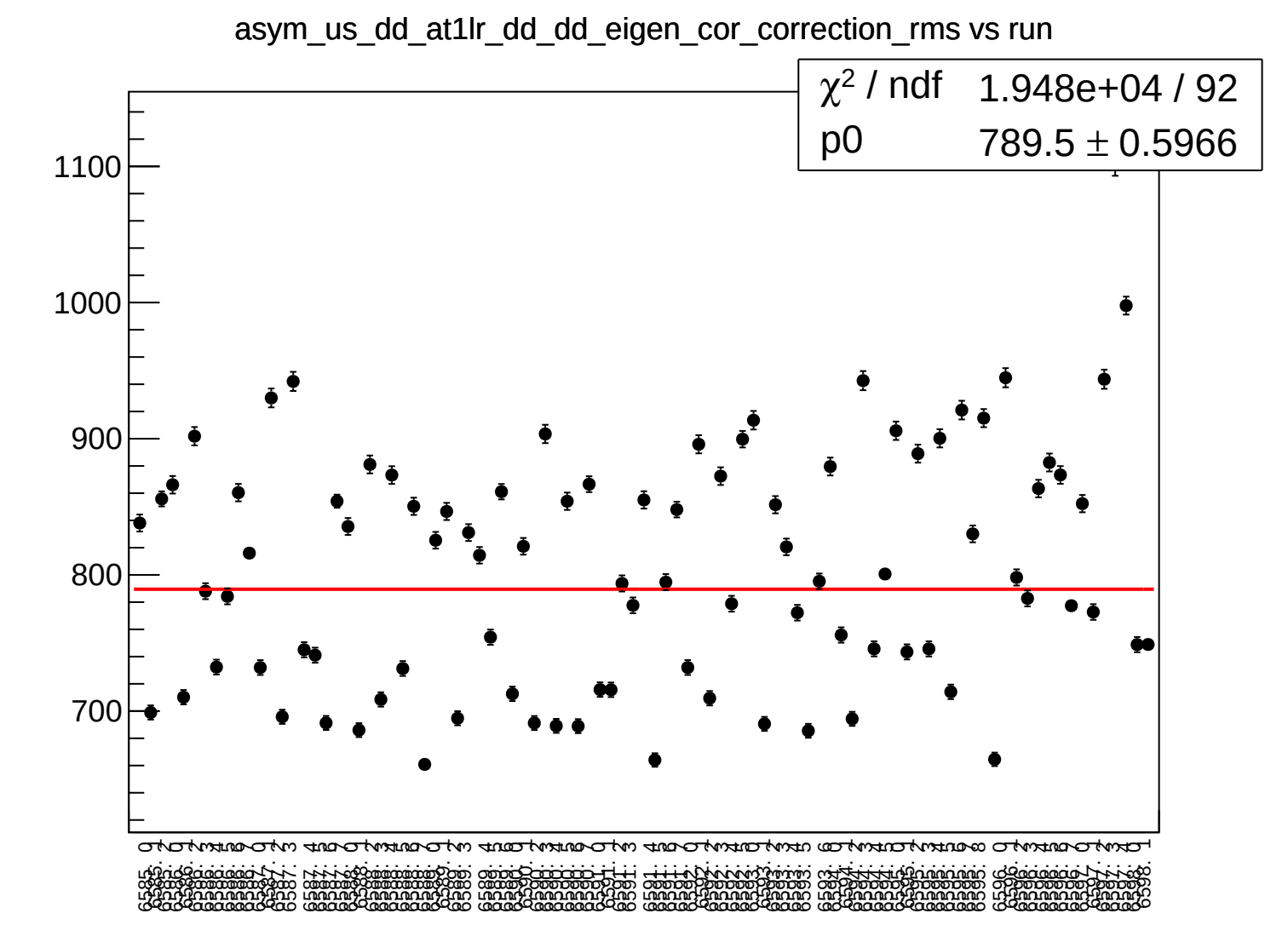

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 82.21 / 92
p0 −1296 ± 1843
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1079
Std Dev 0
3
2
1
0
−1
−2

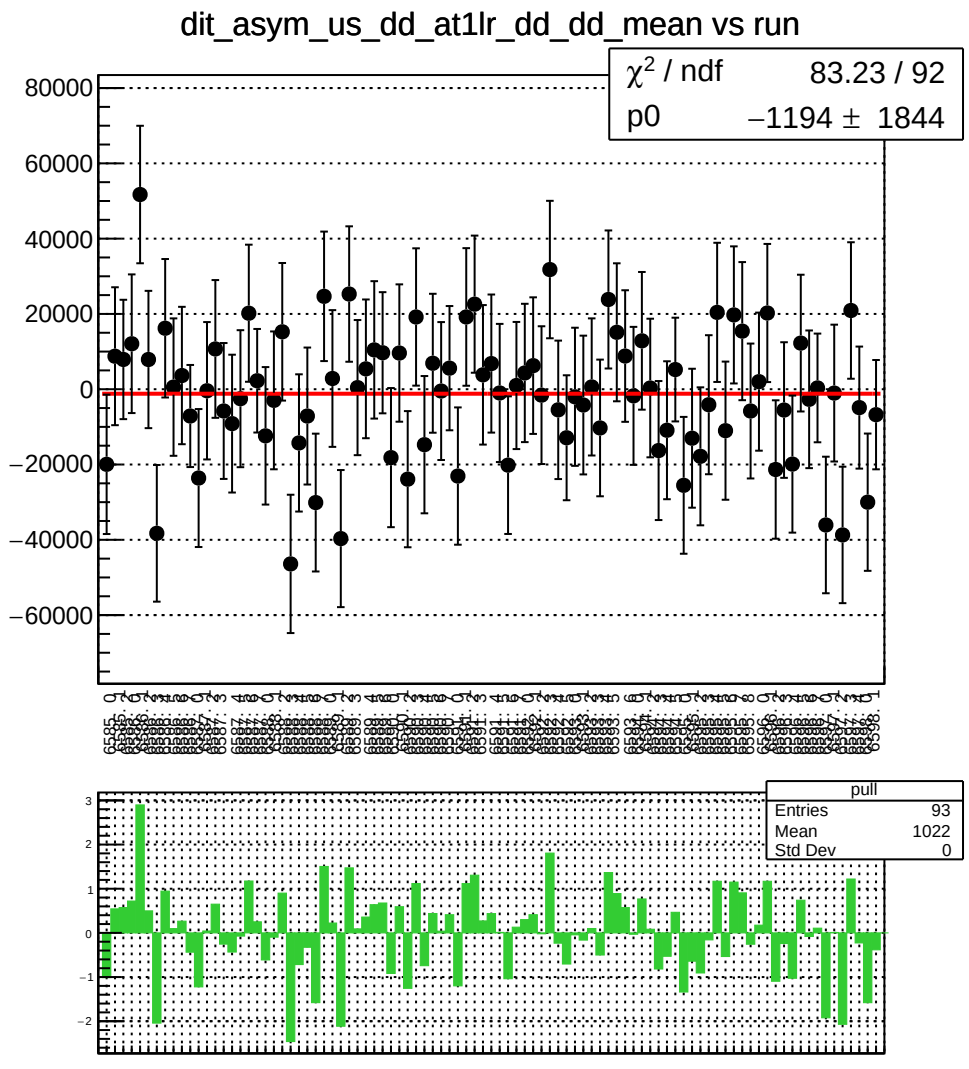

pull1D
Entries 93
Mean −0.002491
Std Dev 0.9402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

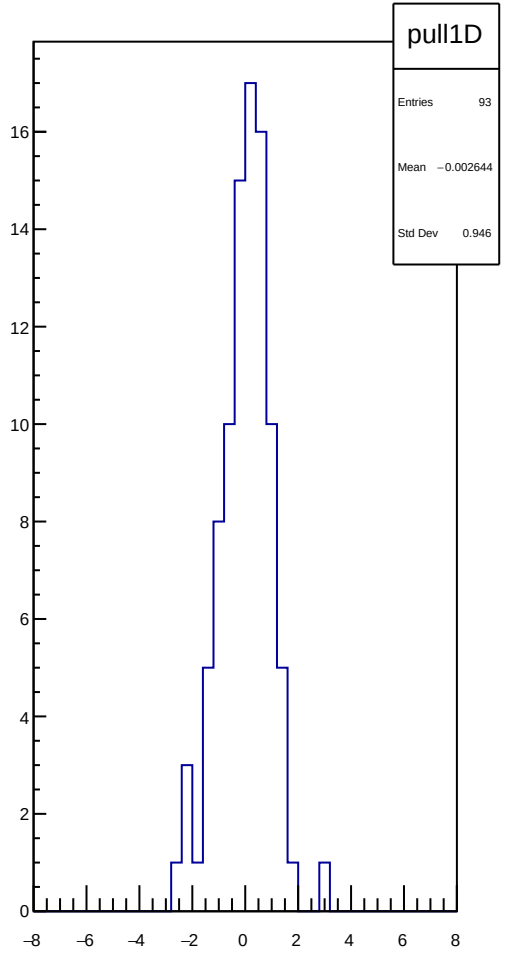

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 68.72 / 92
p0 1734 ± 1.303
1770
1760
1750
1740
1730
1720
1710
1700
1690

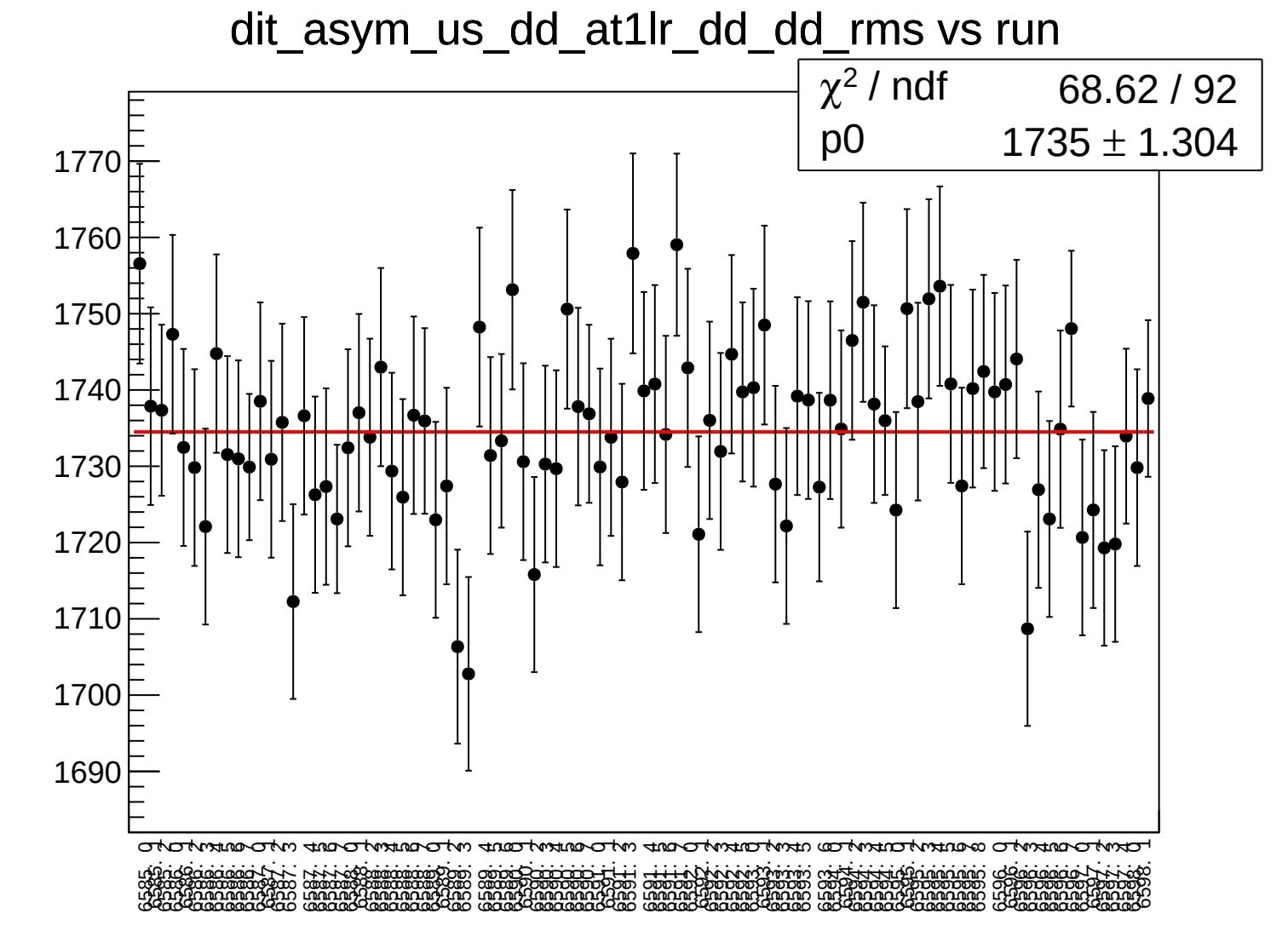

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 115.1 / 92
p0 13.5 ± 843.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 2389
Std Dev 0
2
1
0
−1
−2

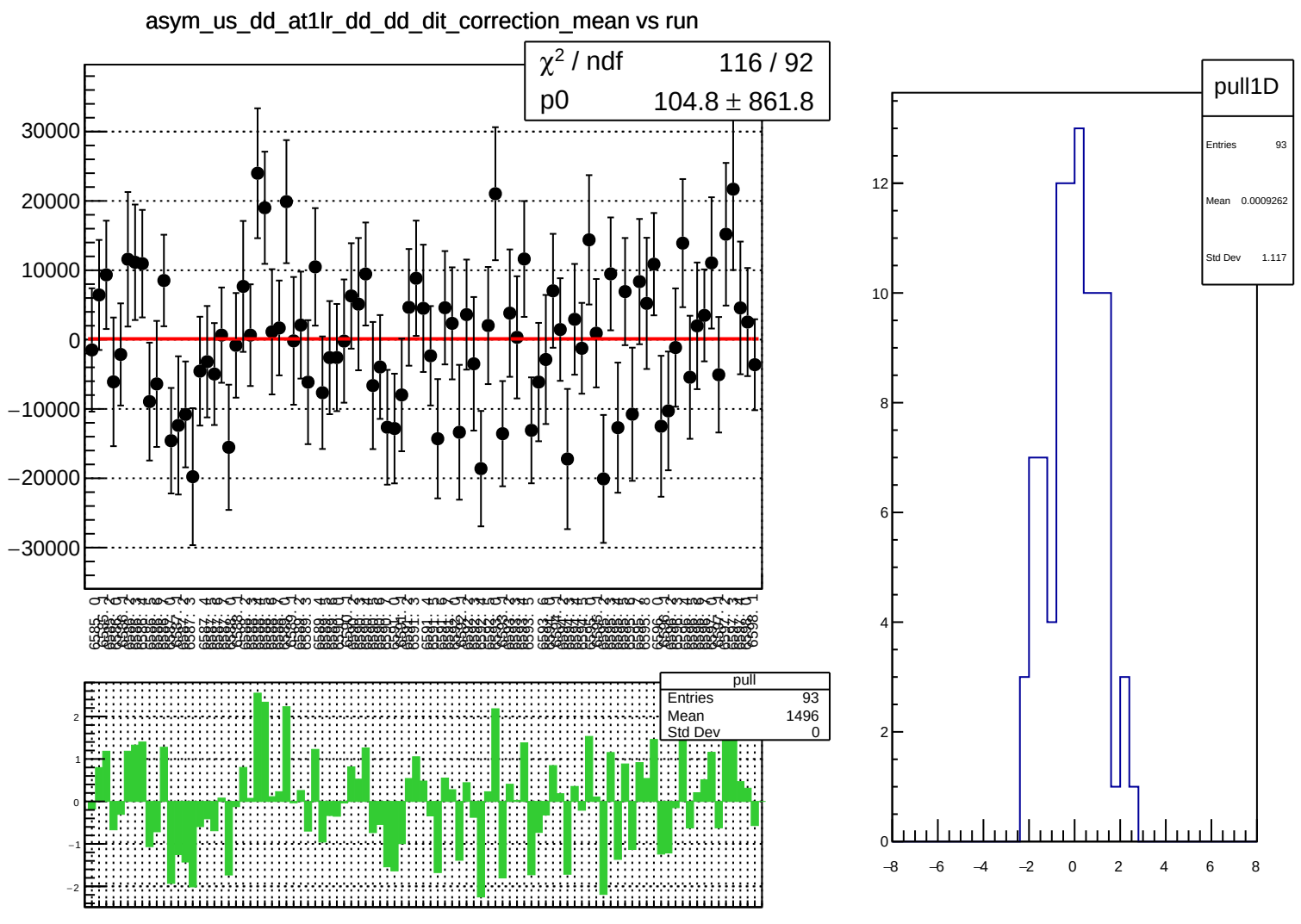

pull1D
Entries 93
Mean 0.0006
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

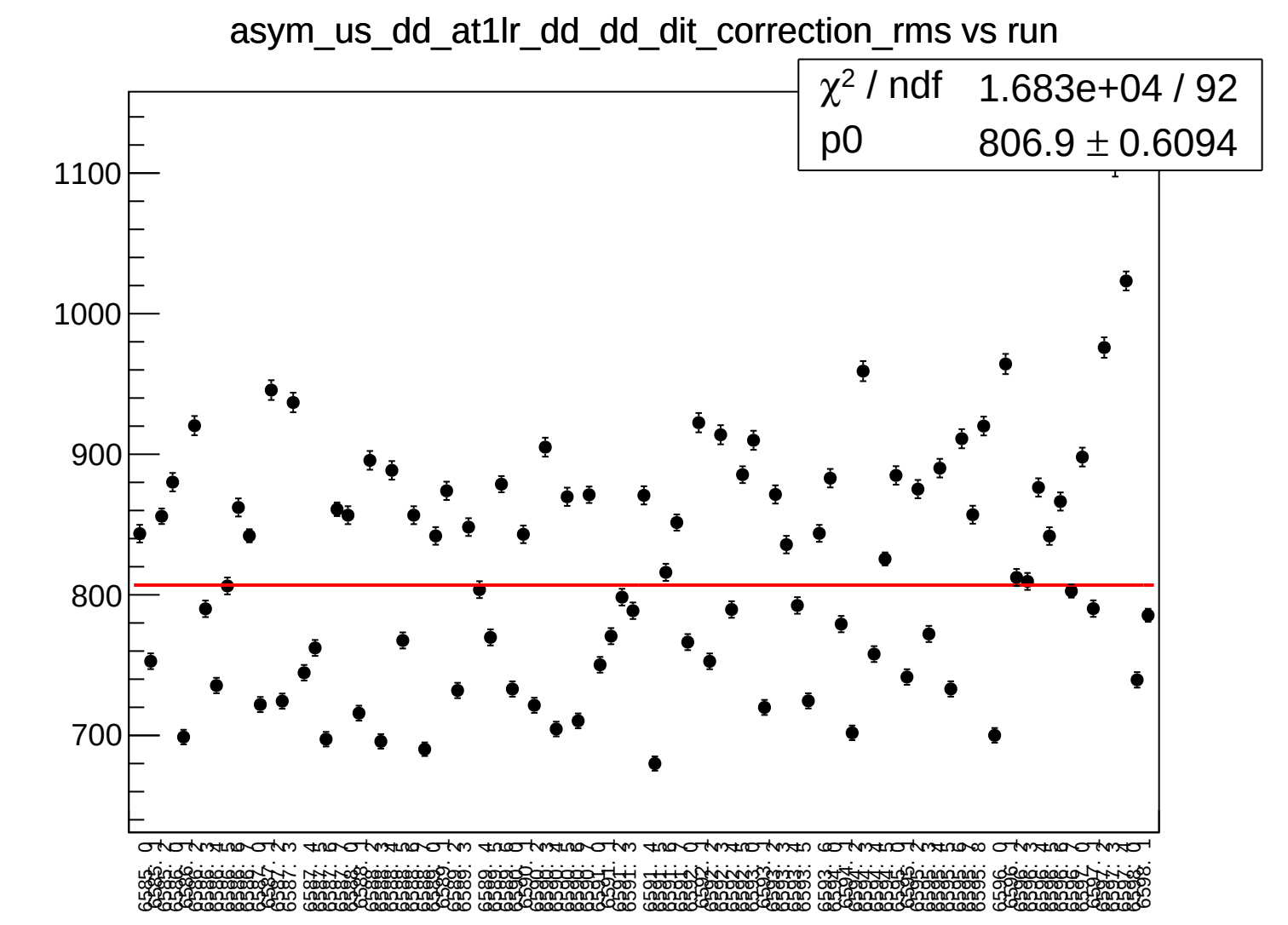

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.948e+04 / 92
p0 789.5 ± 0.5966
1100
1000
900
800
700

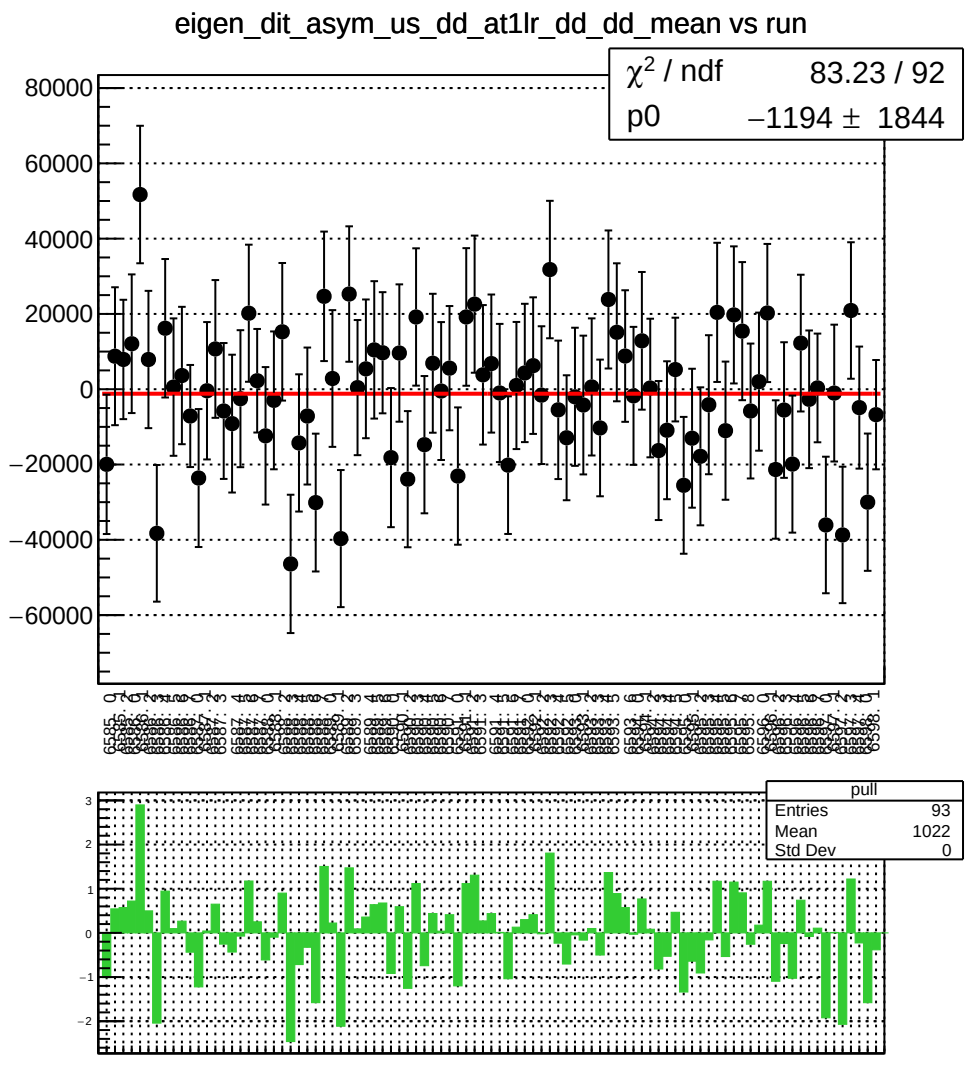

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 83.23 / 92
p0 −1194 ± 1844
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1022
Std Dev 0
3
2
1
0
−1
−2

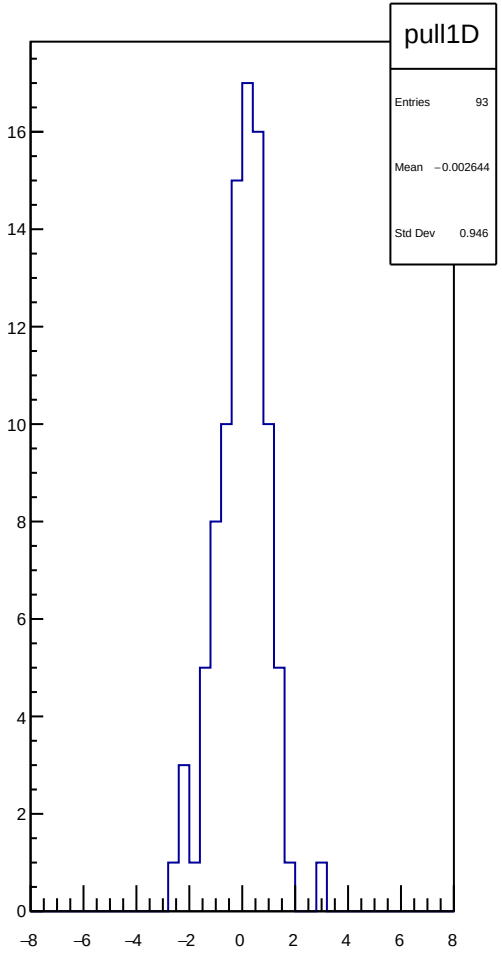

pull1D
Entries 93
Mean −0.002644
Std Dev 0.946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

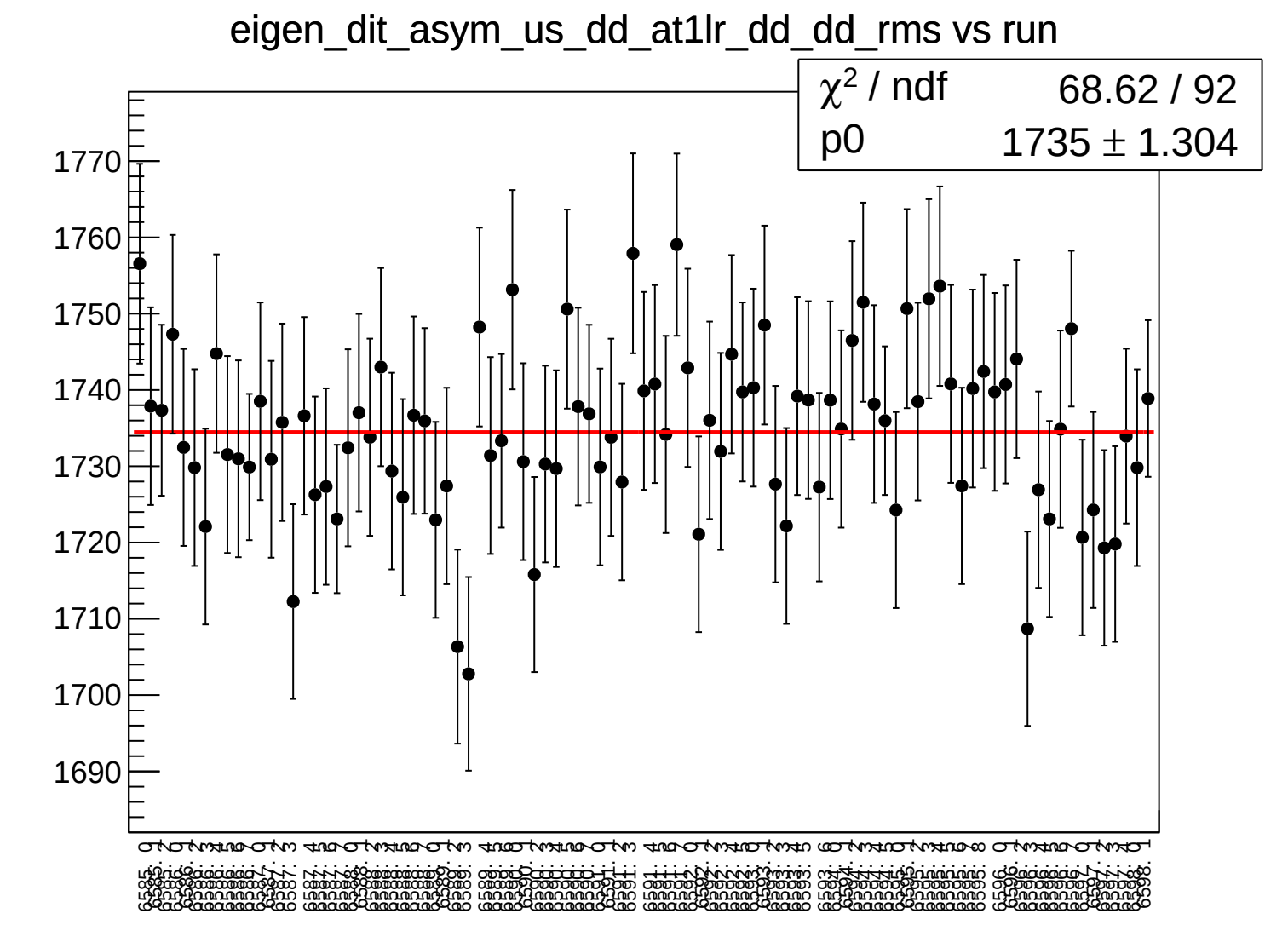

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 68.62 / 92
p0 1735 ± 1.304
1770
1760
1750
1740
1730
1720
1710
1700
1690

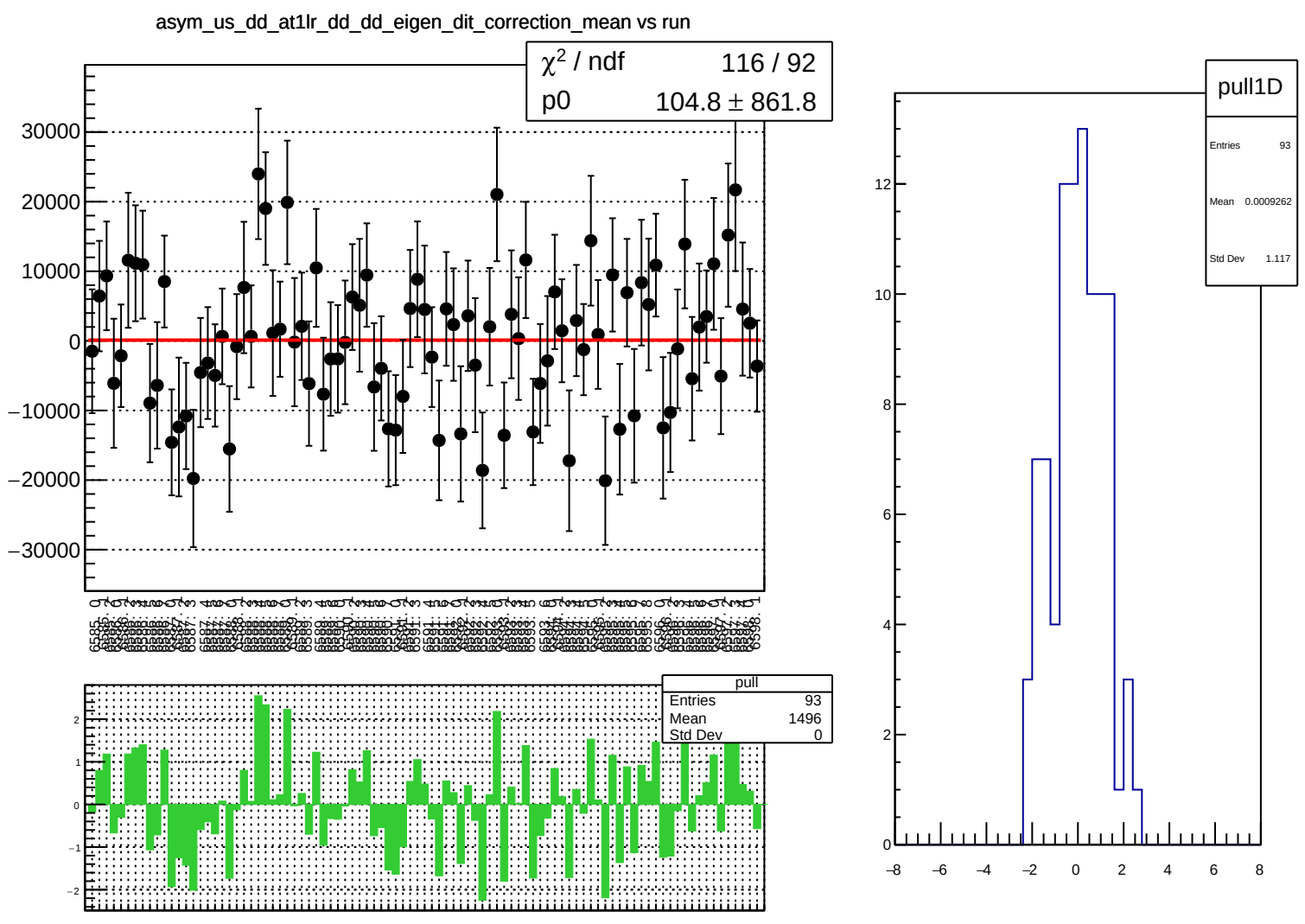

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 116 / 92
p0 104.8 ± 861.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 1496
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0009262
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

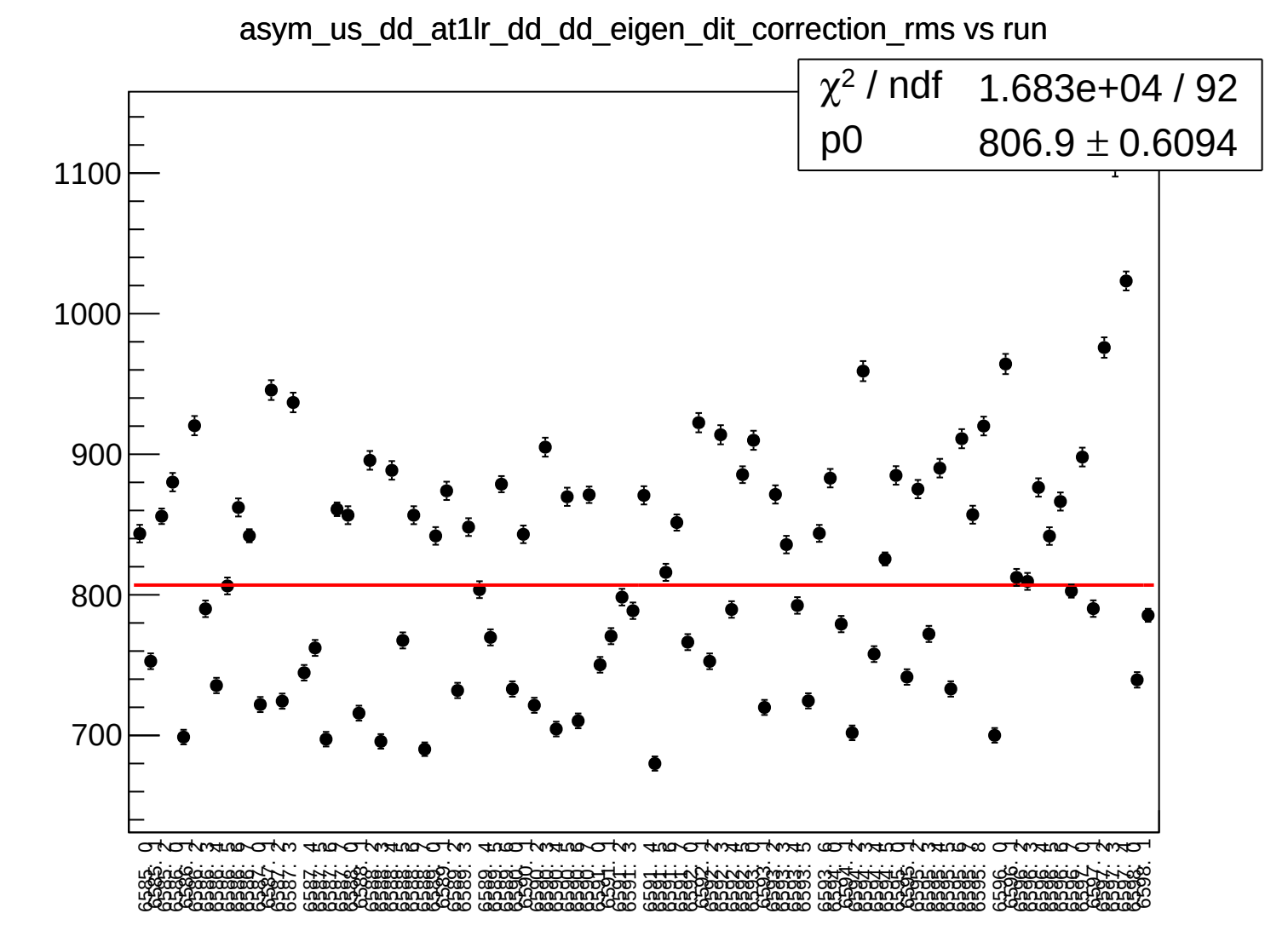

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.683e+04 / 92
p0 806.9 ± 0.6094
1100
1000
900
800
700

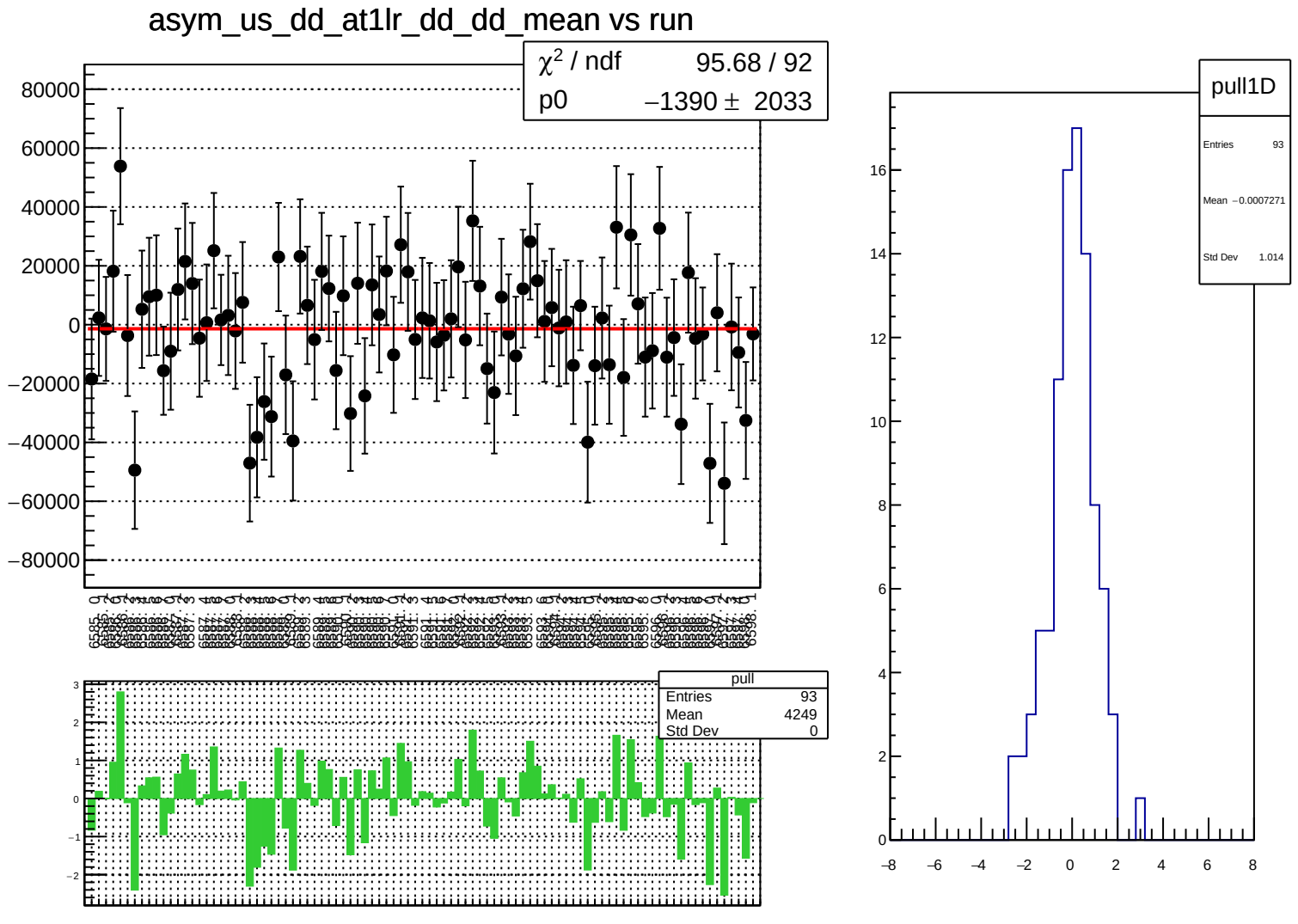

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 83.23 / 92
p0 −1194 ± 1844
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1022
Std Dev 0
3
2
1
0
−1
−2

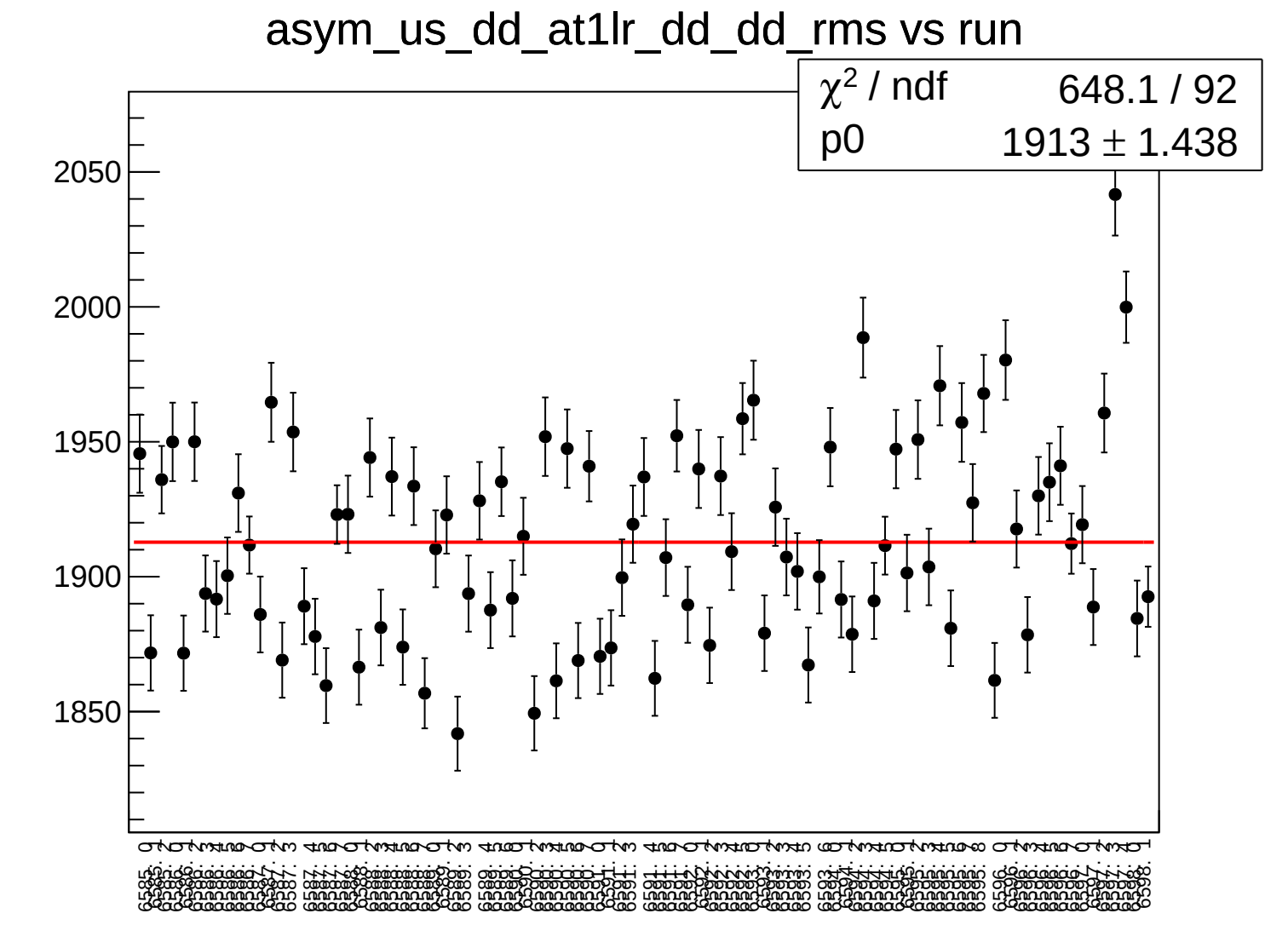

pull1D
Entries 93
Mean −0.002644
Std Dev 0.946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

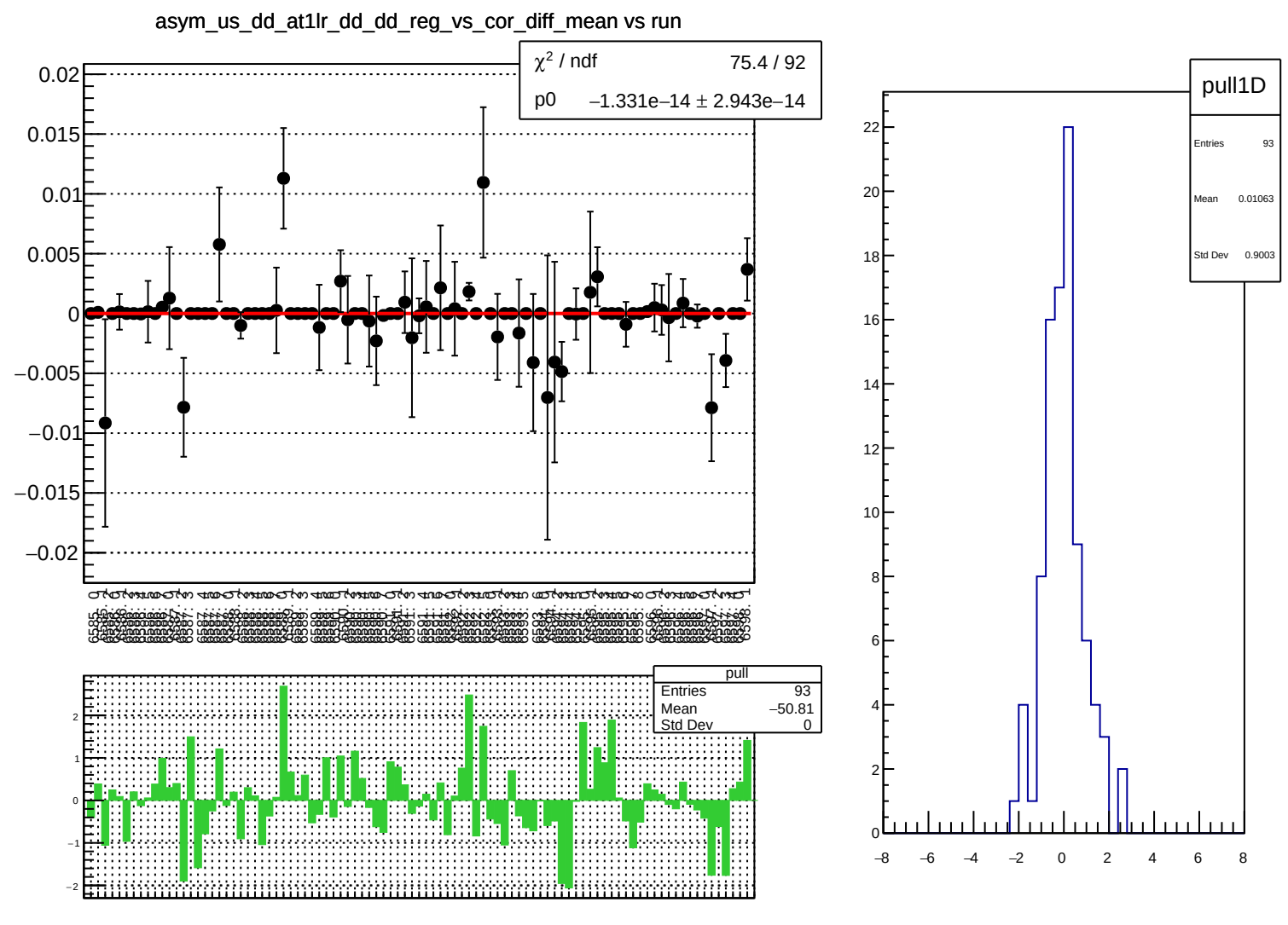

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 68.62 / 92
p0 1735 ± 1.304
1770
1760
1750
1740
1730
1720
1710
1700
1690

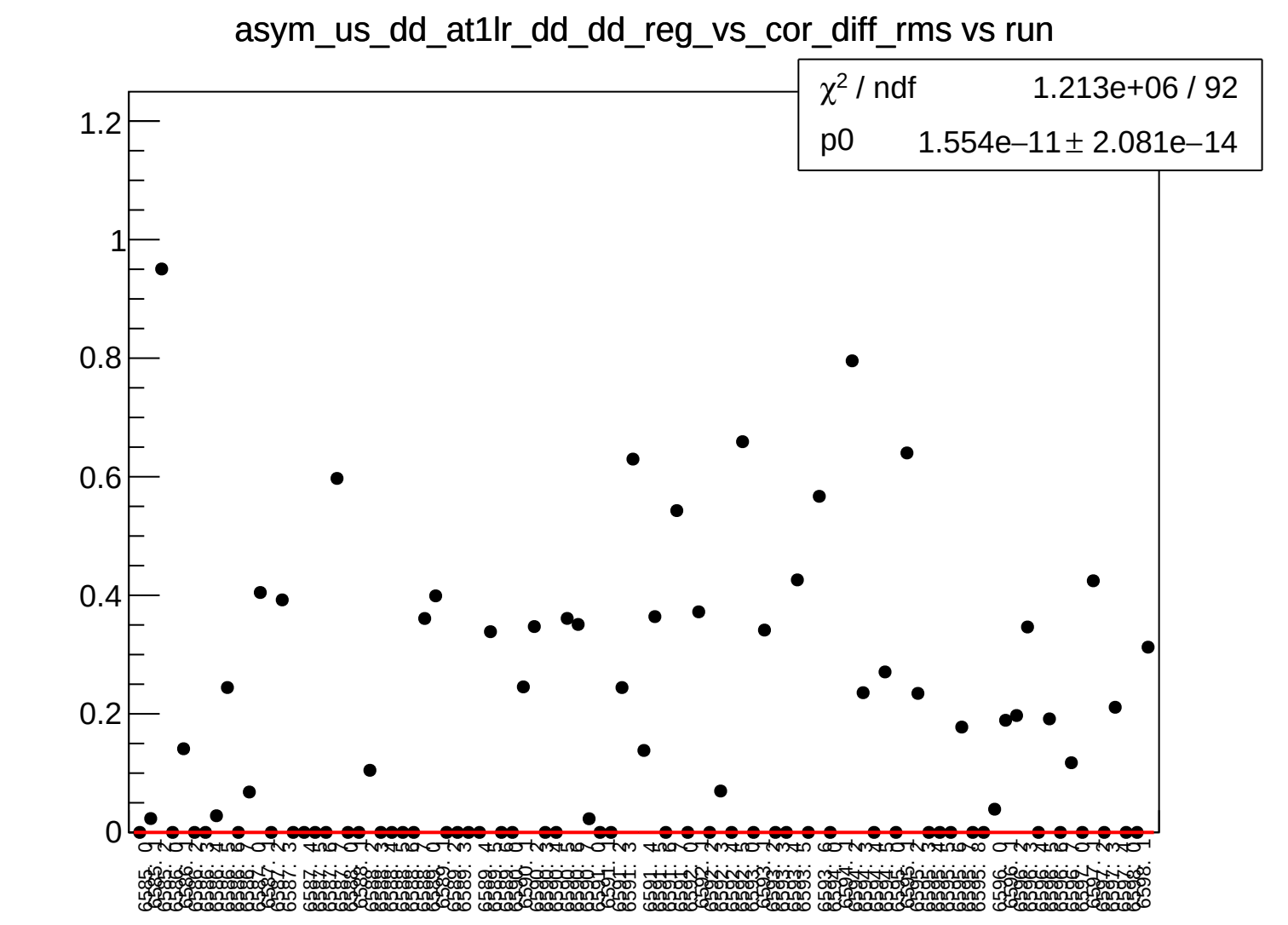

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 116 / 92
p0 104.8 ± 861.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 1496
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0009262
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

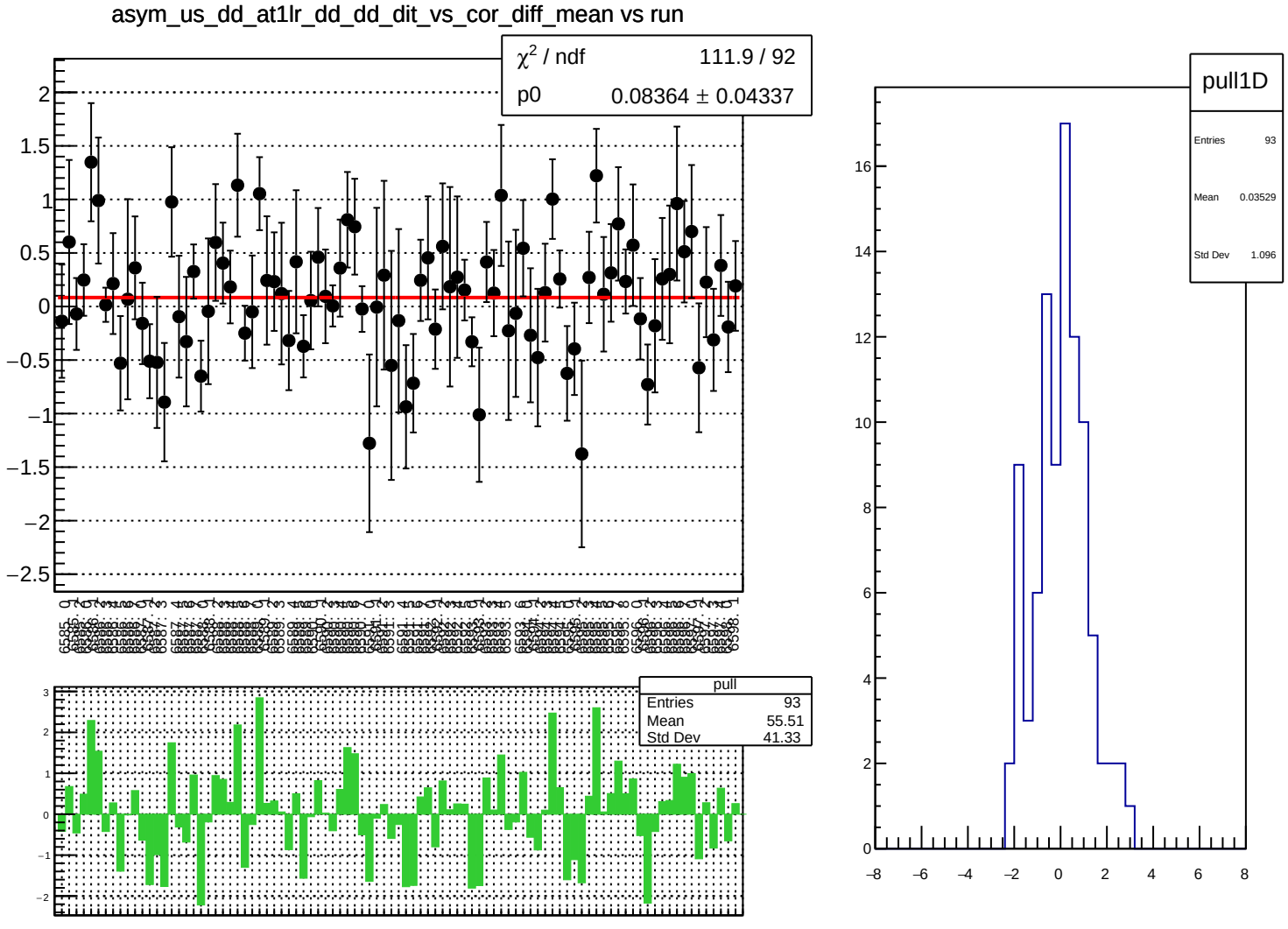

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.683e+04 / 92
p0 806.9 ± 0.6094
1100
1000
900
800
700

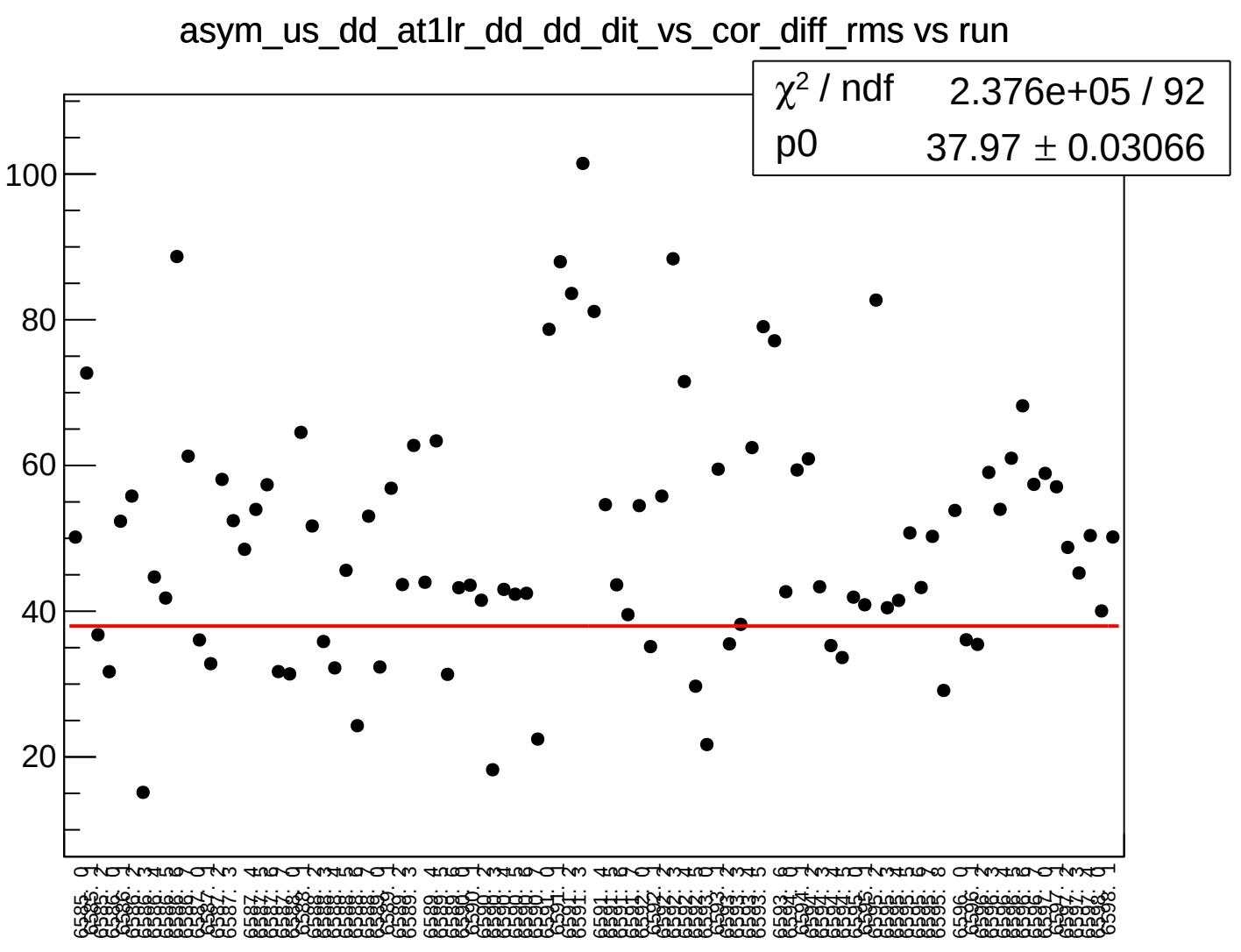

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 95.68 / 92
p0 −1390 ± 2033
pull
Entries 93
Mean 4249
Std Dev 0
pull1D
Entries 93
Mean −0.0007271
Std Dev 1.014

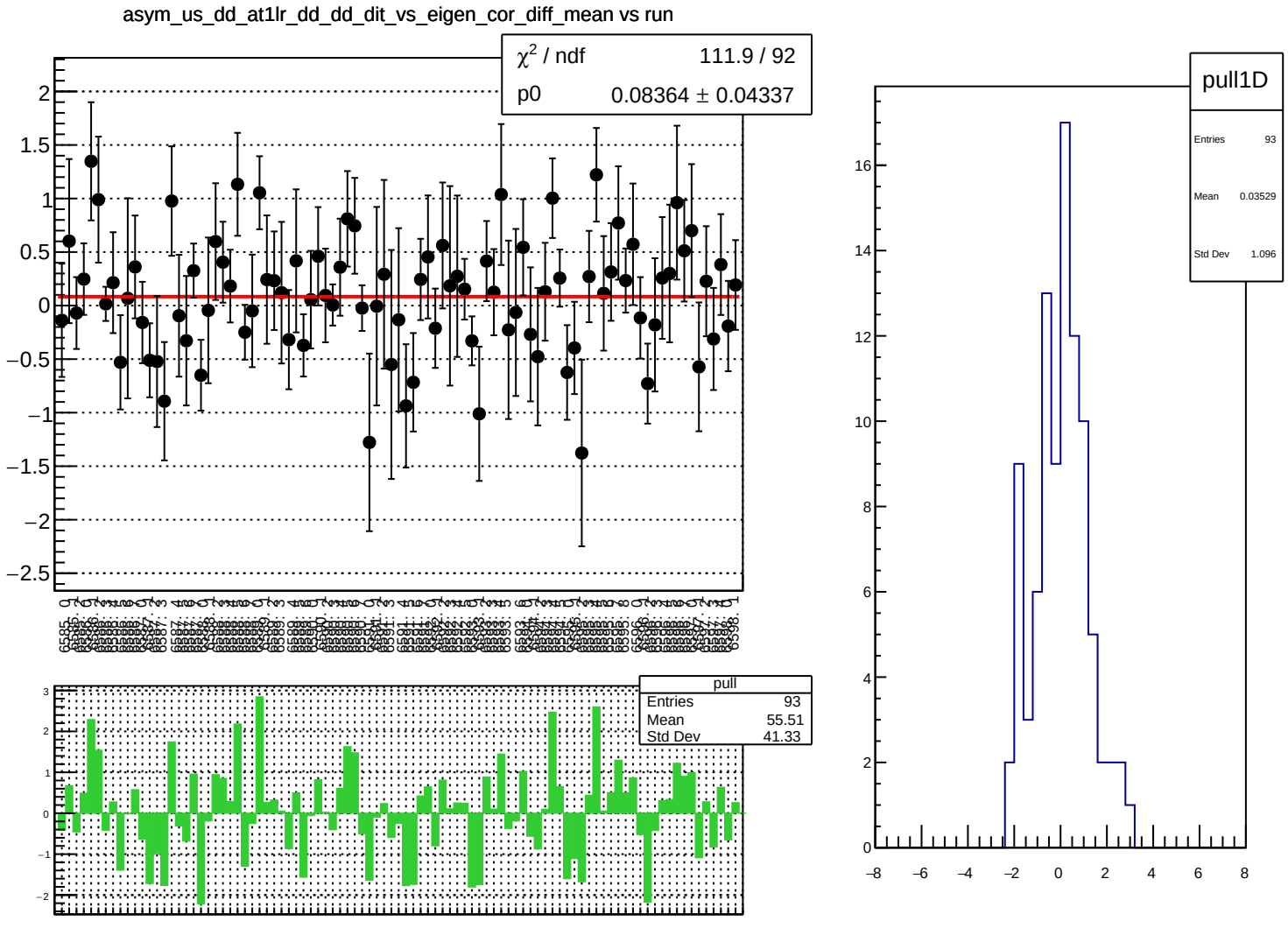

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 648.1 / 92
p0 1913 ± 1.438
2050
2000
1950
1900
1850

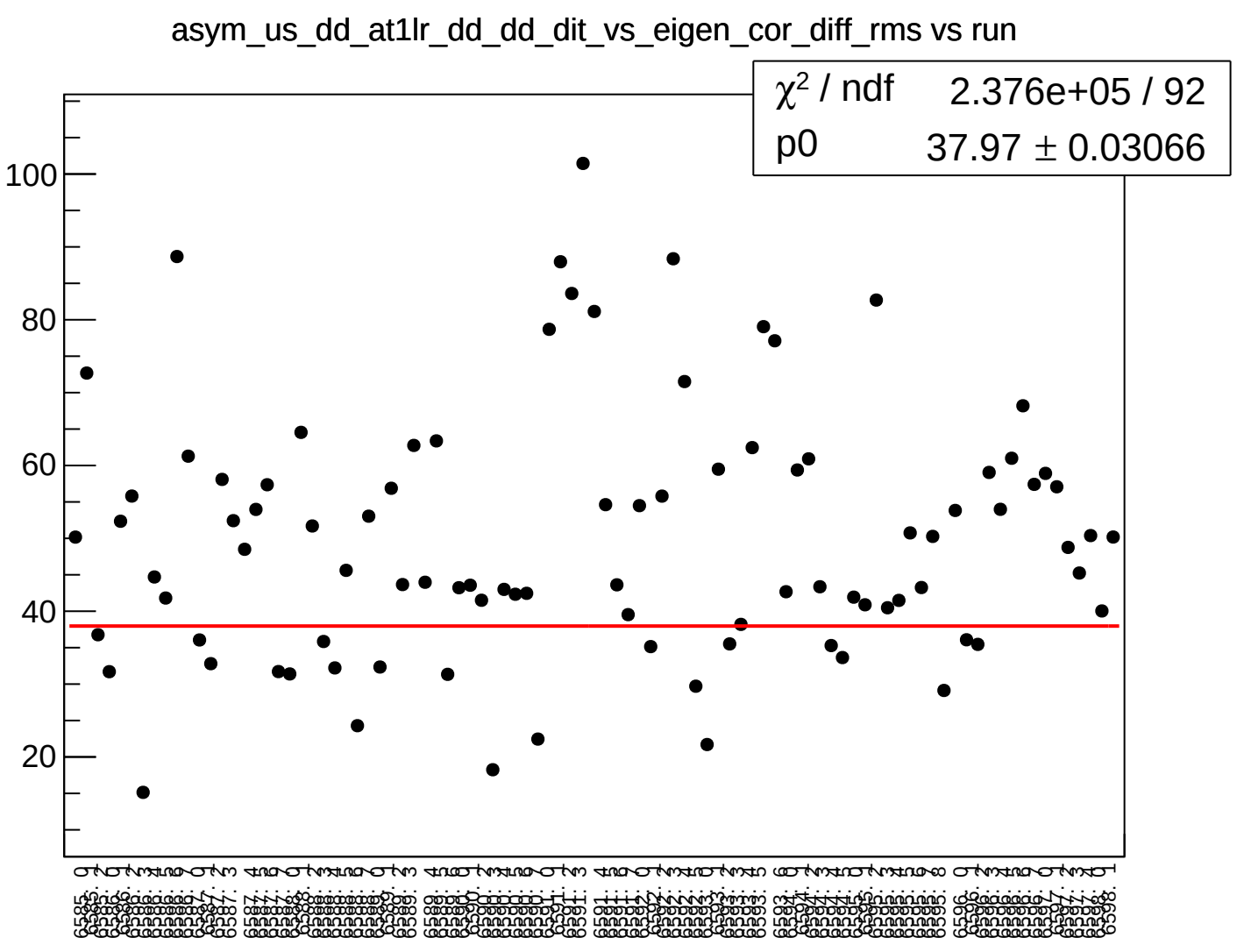

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.4 / 92
p0 −1.331e−14 ± 2.943e−14
pull
Entries 93
Mean −50.81
Std Dev 0
pull1D
Entries 93
Mean 0.01063
Std Dev 0.9003

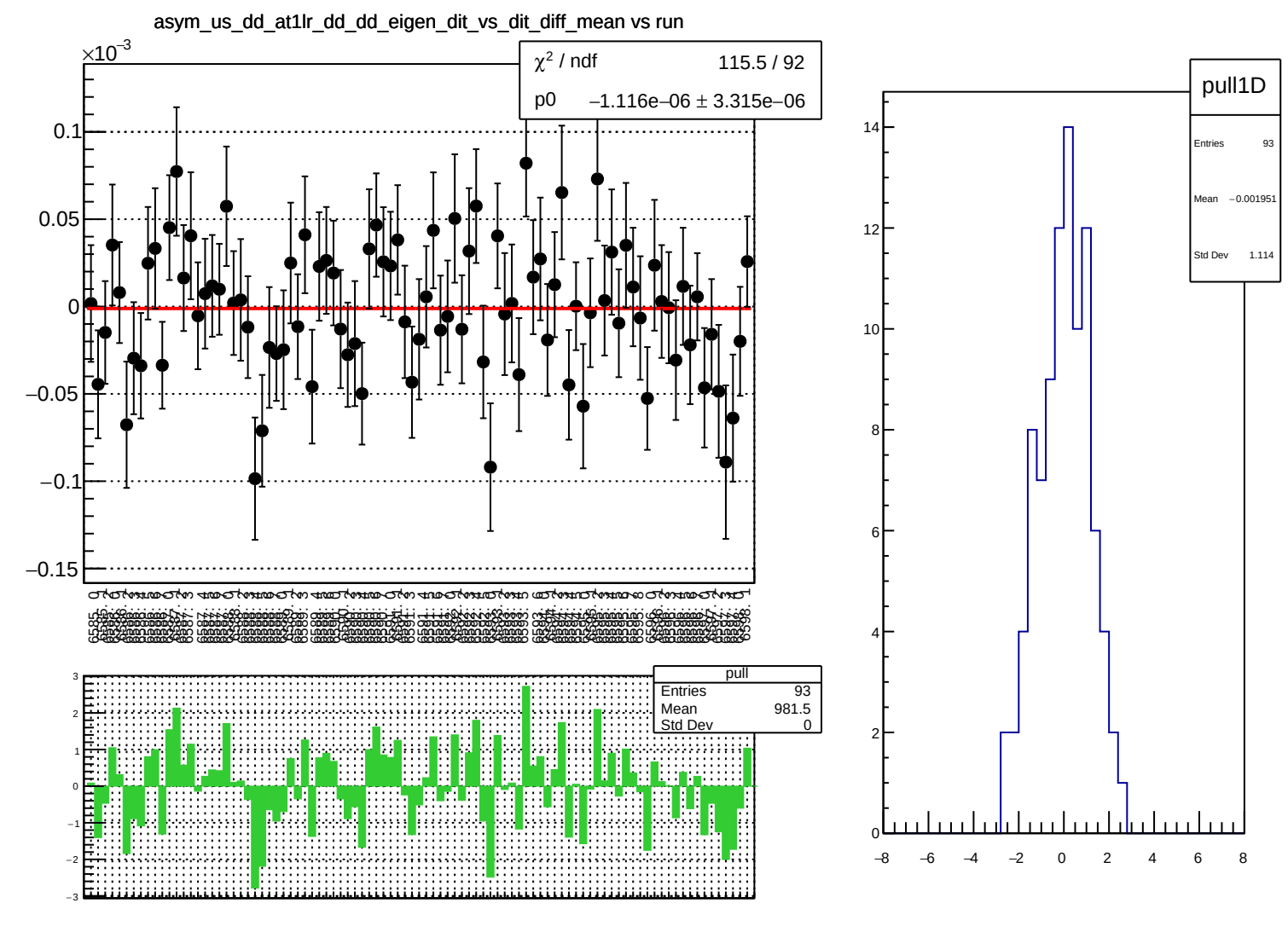

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.213e+06 / 92
p0 1.554e−11 ± 2.081e−14
1.2
1
0.8
0.6
0.4
0.2
0

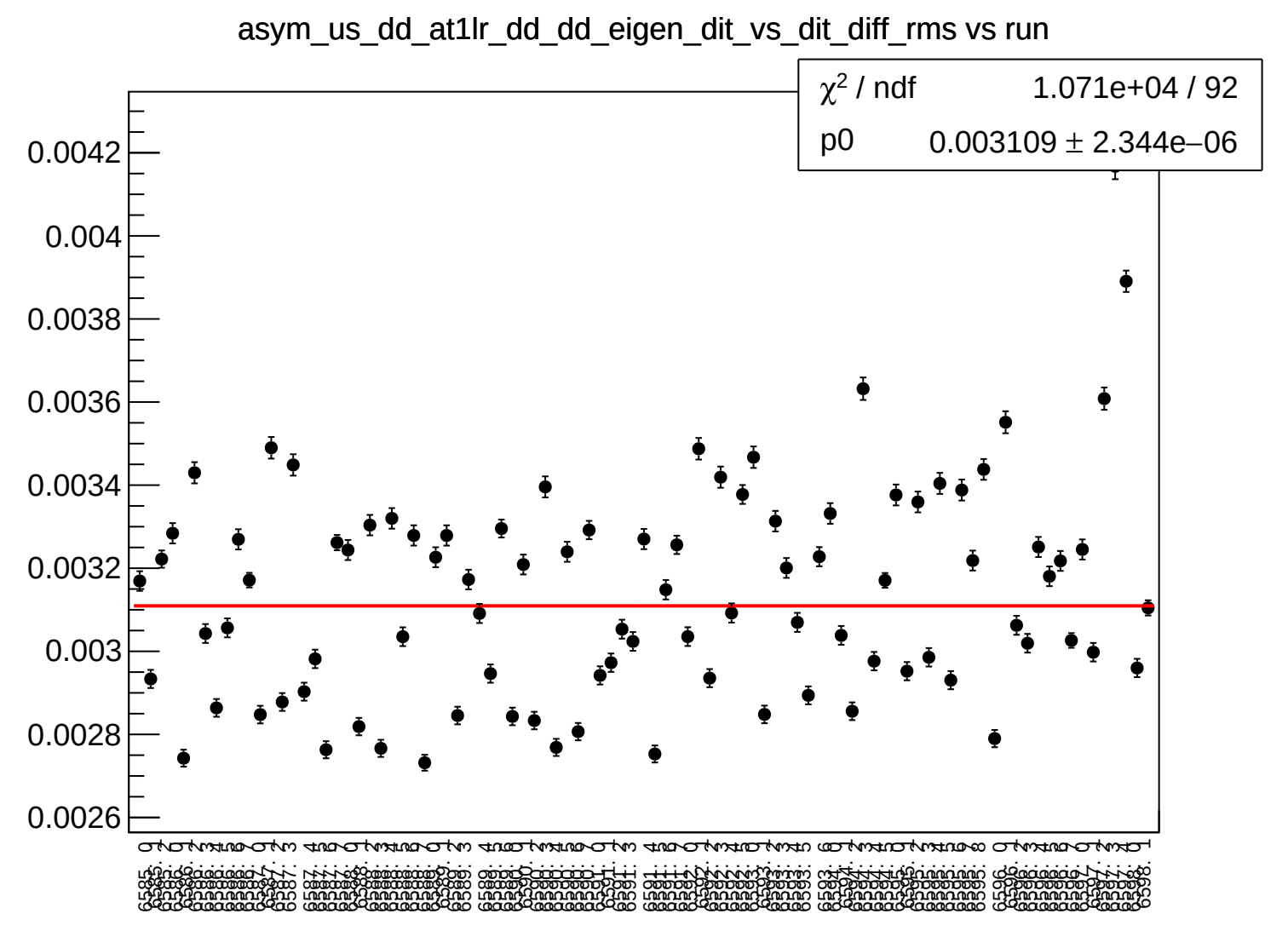

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 111.9 / 92
p0 0.08364 ± 0.04337
pull
Entries 93
Mean 55.51
Std Dev 41.33
pull1D
Entries 93
Mean 0.03529
Std Dev 1.096

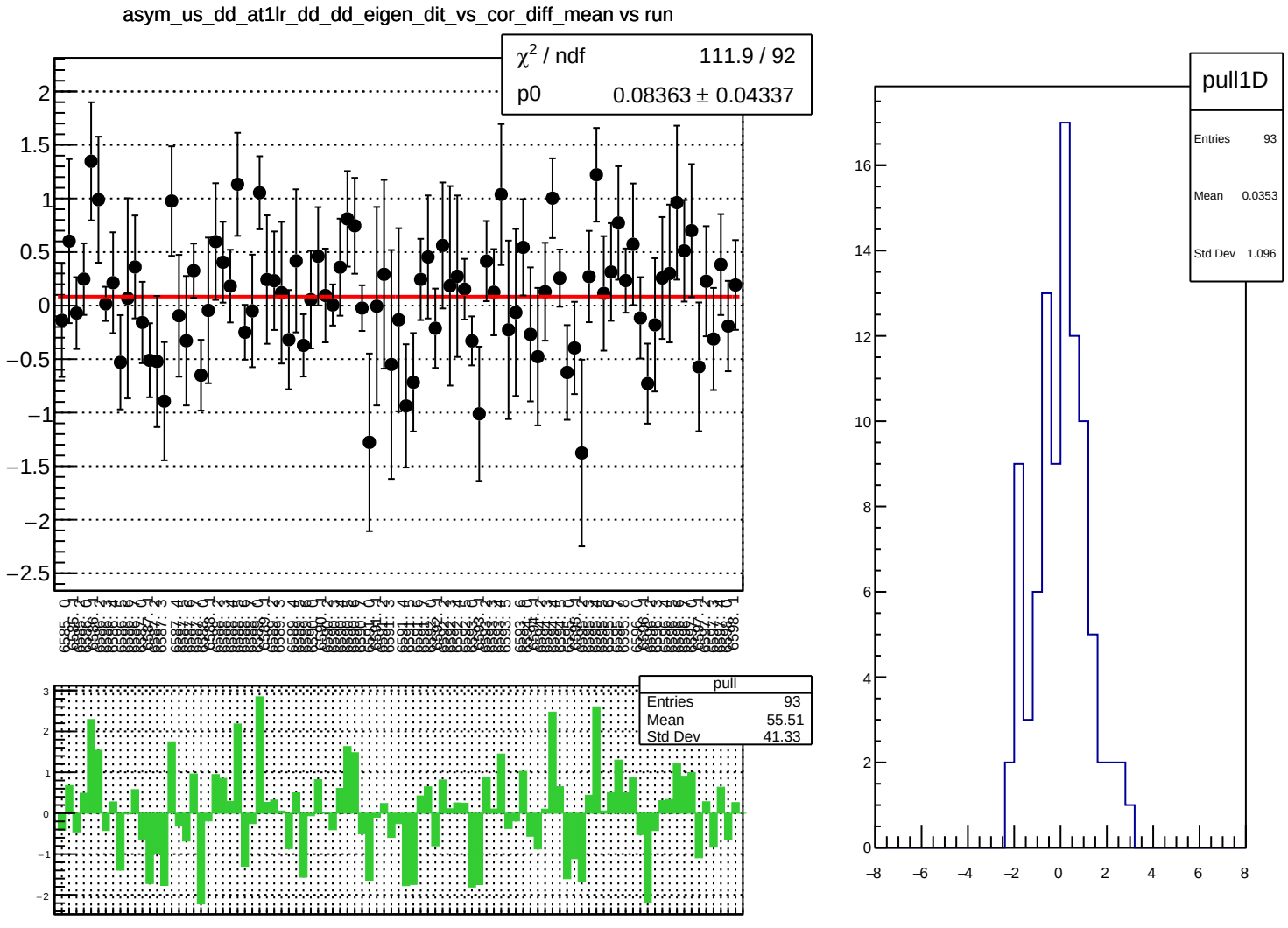

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.376e+05 / 92
p0 37.97 ± 0.03066
100
80
60
40
20

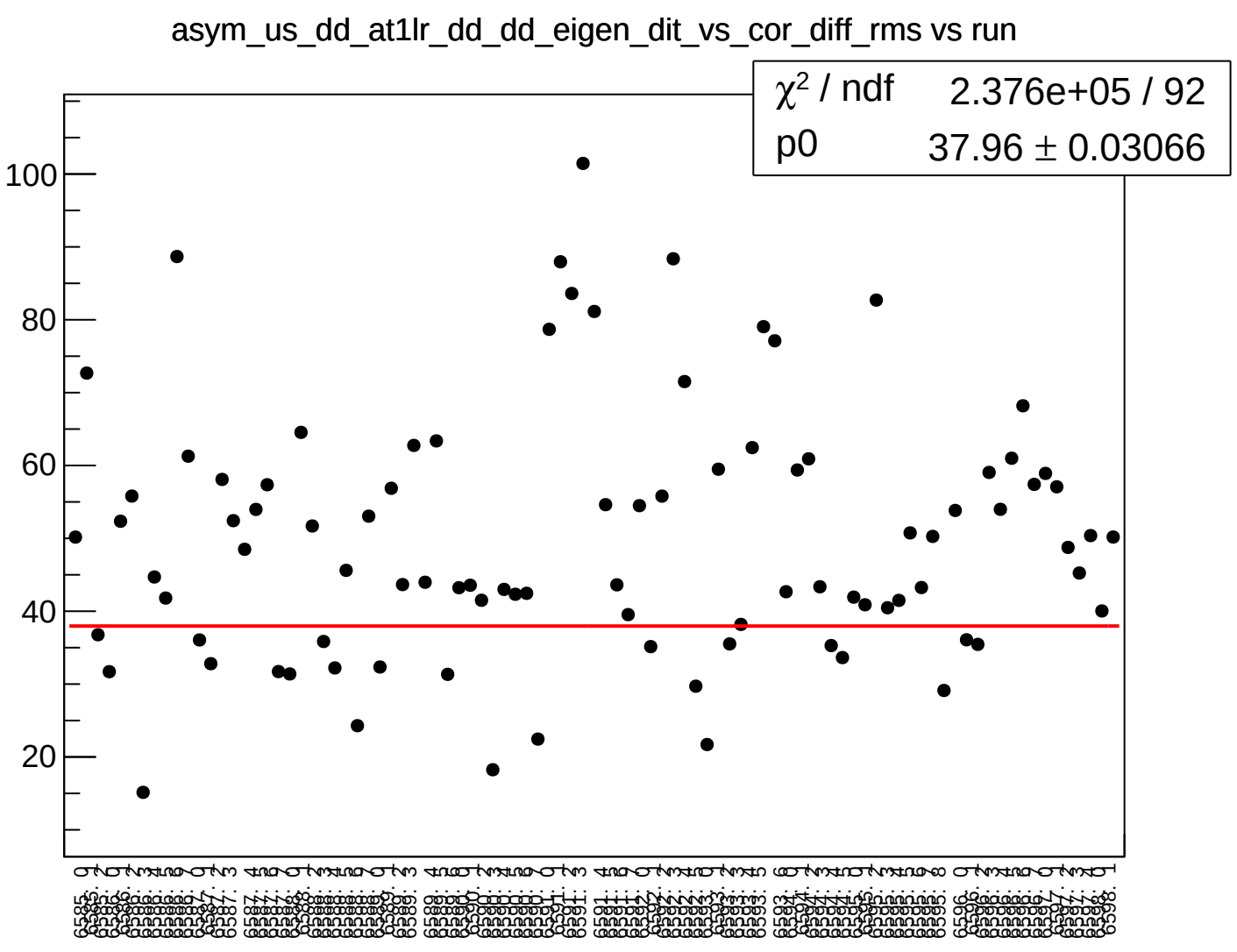

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.9 / 92
p0 0.08364 ± 0.04337
pull
Entries 93
Mean 55.51
Std Dev 41.33
pull1D
Entries 93
Mean 0.03529
Std Dev 1.096

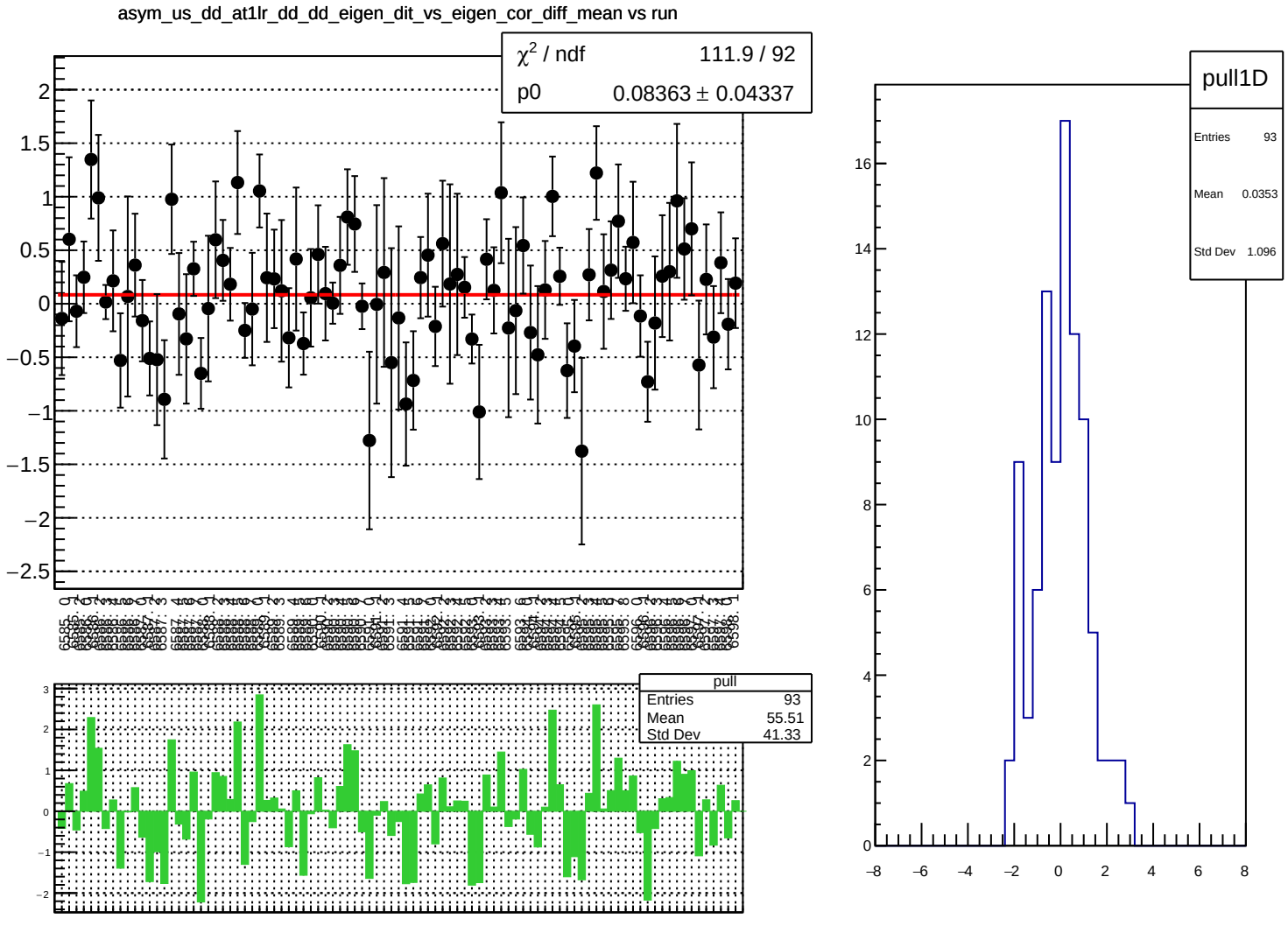

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.376e+05 / 92
p0 37.97 ± 0.03066
100
80
60
40
20

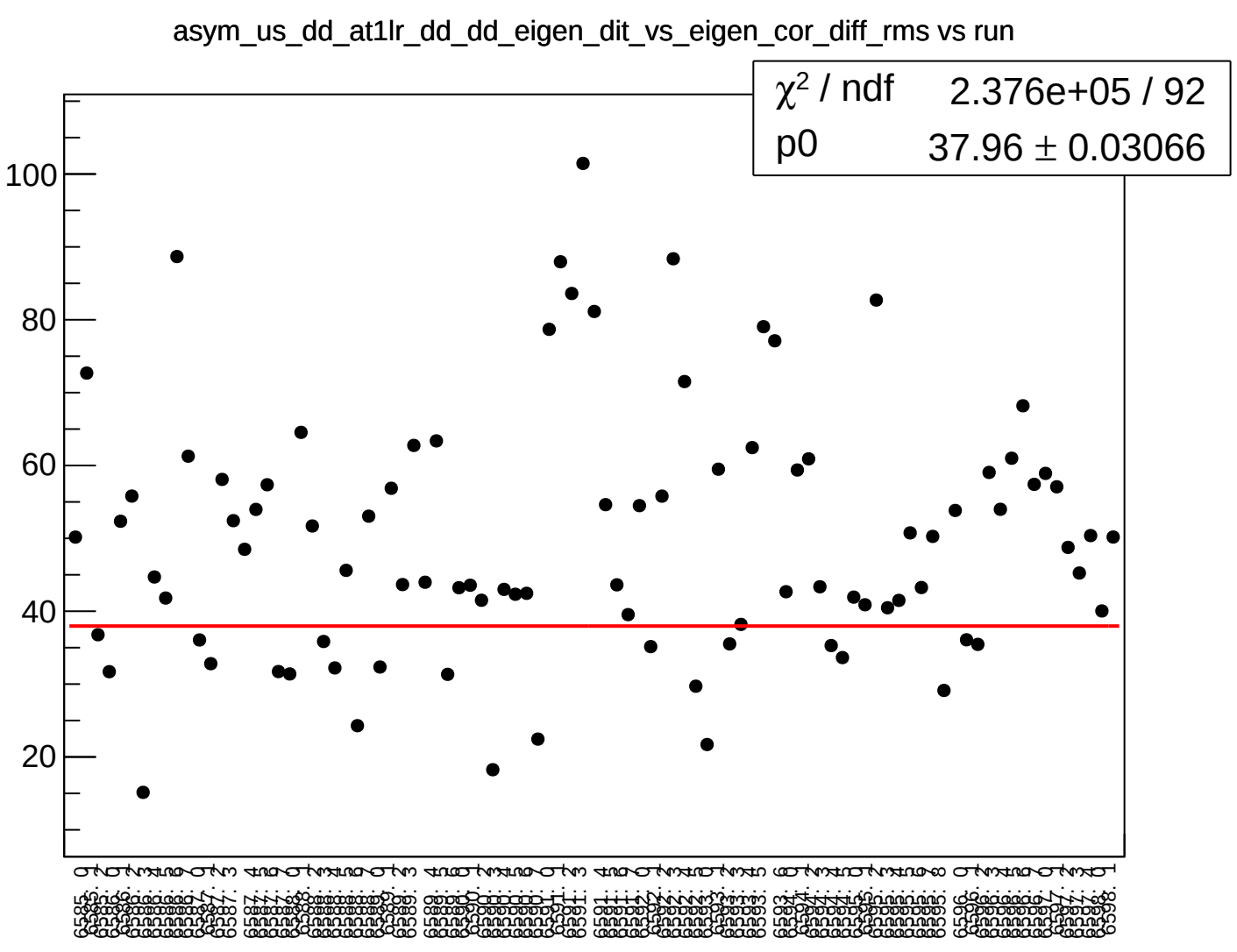

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.5 / 92
p0 −1.116e−06 ± 3.315e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 981.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.001951
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

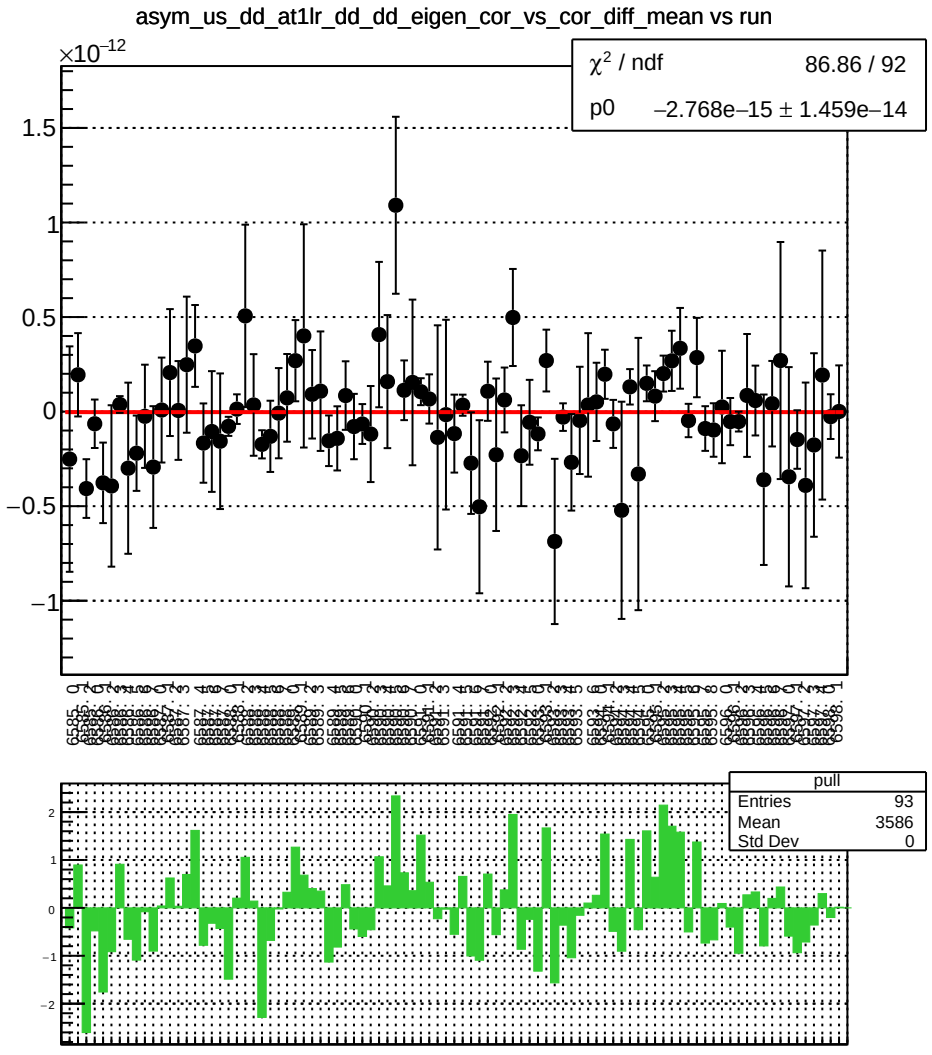

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.071e+04 / 92
p0 0.003109 ± 2.344e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

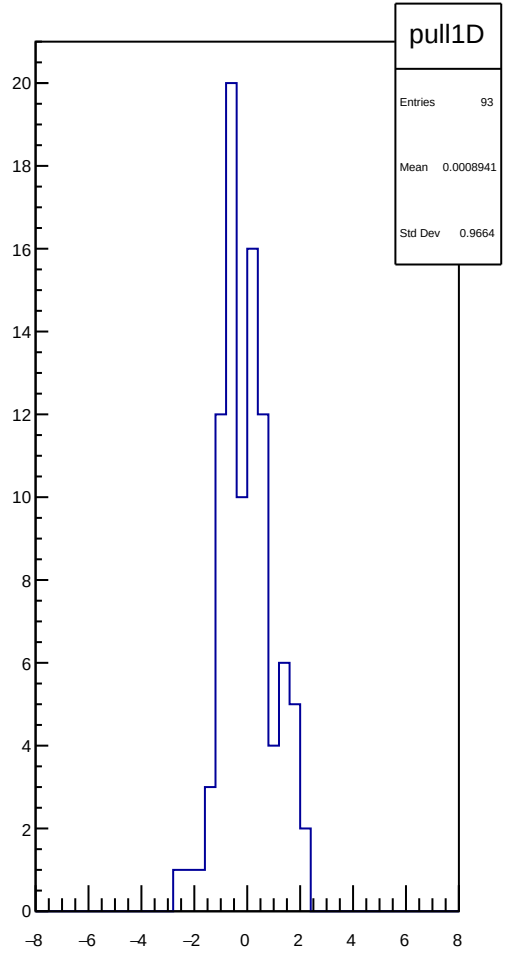

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.9 / 92
p0 0.08363 ± 0.04337
pull
Entries 93
Mean 55.51
Std Dev 41.33
pull1D
Entries 93
Mean 0.0353
Std Dev 1.096

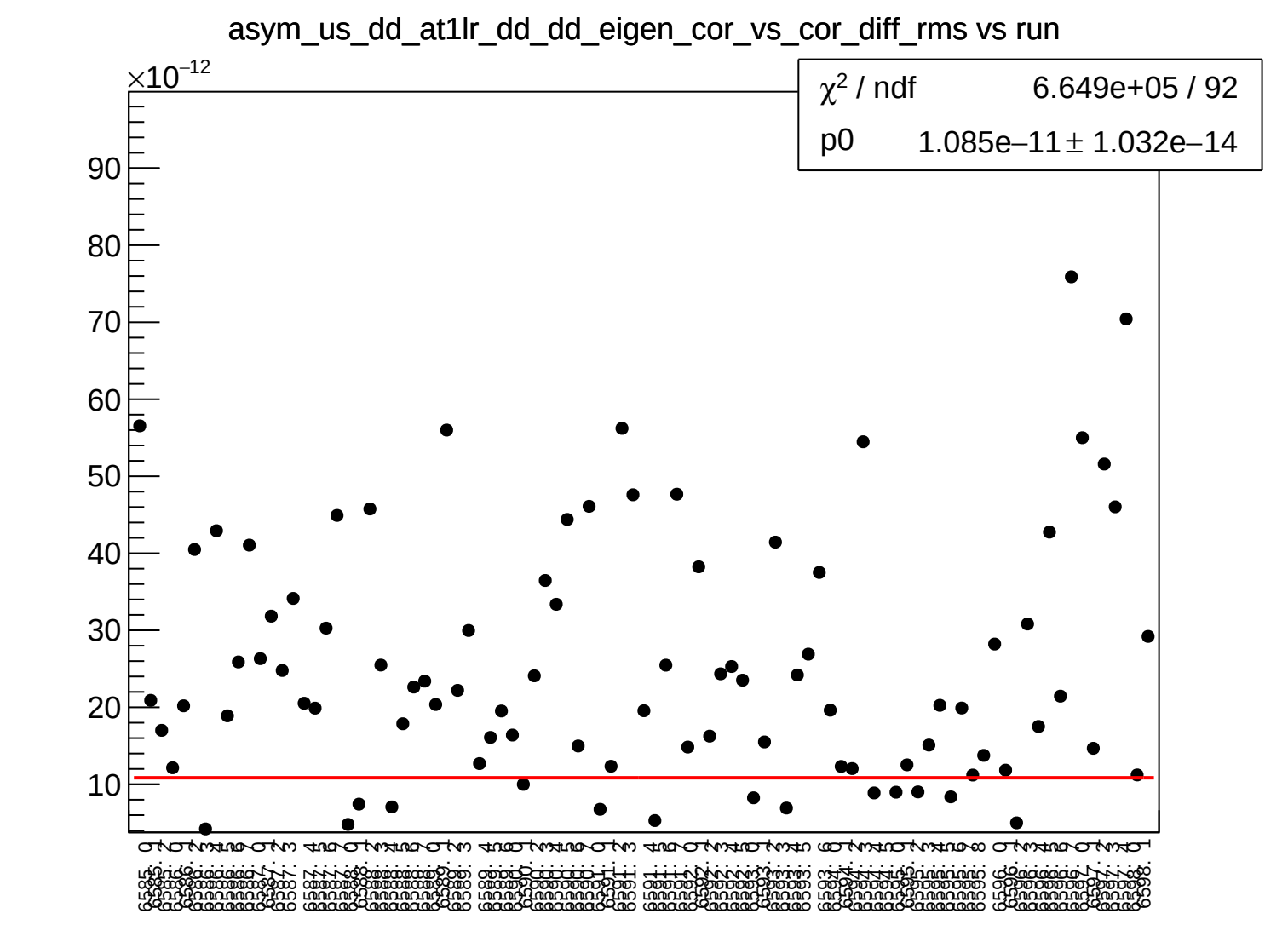

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.376e+05 / 92
p0 37.96 ± 0.03066
100
80
60
40
20

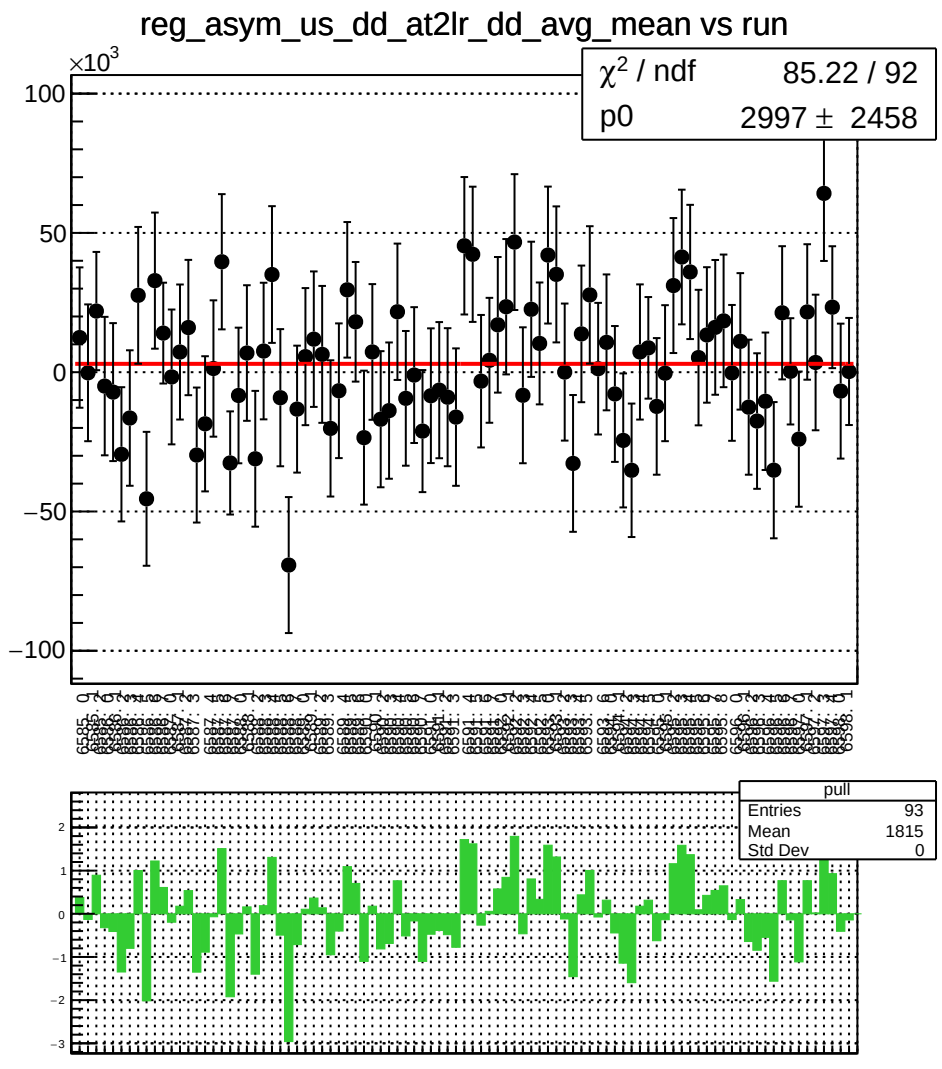

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.9 / 92
p0 0.08363 ± 0.04337
pull
Entries 93
Mean 55.51
Std Dev 41.33
pull1D
Entries 93
Mean 0.0353
Std Dev 1.096

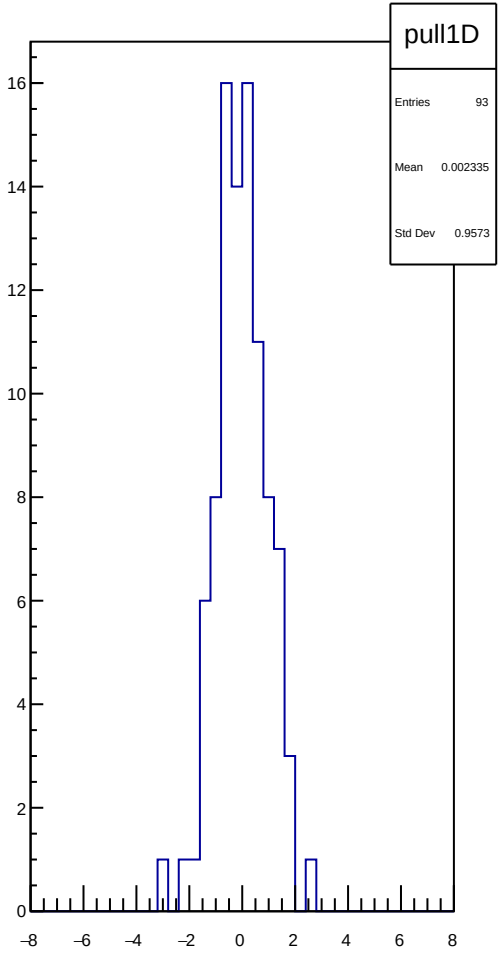

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.376e+05 / 92
p0 37.96 ± 0.03066
100
80
60
40
20

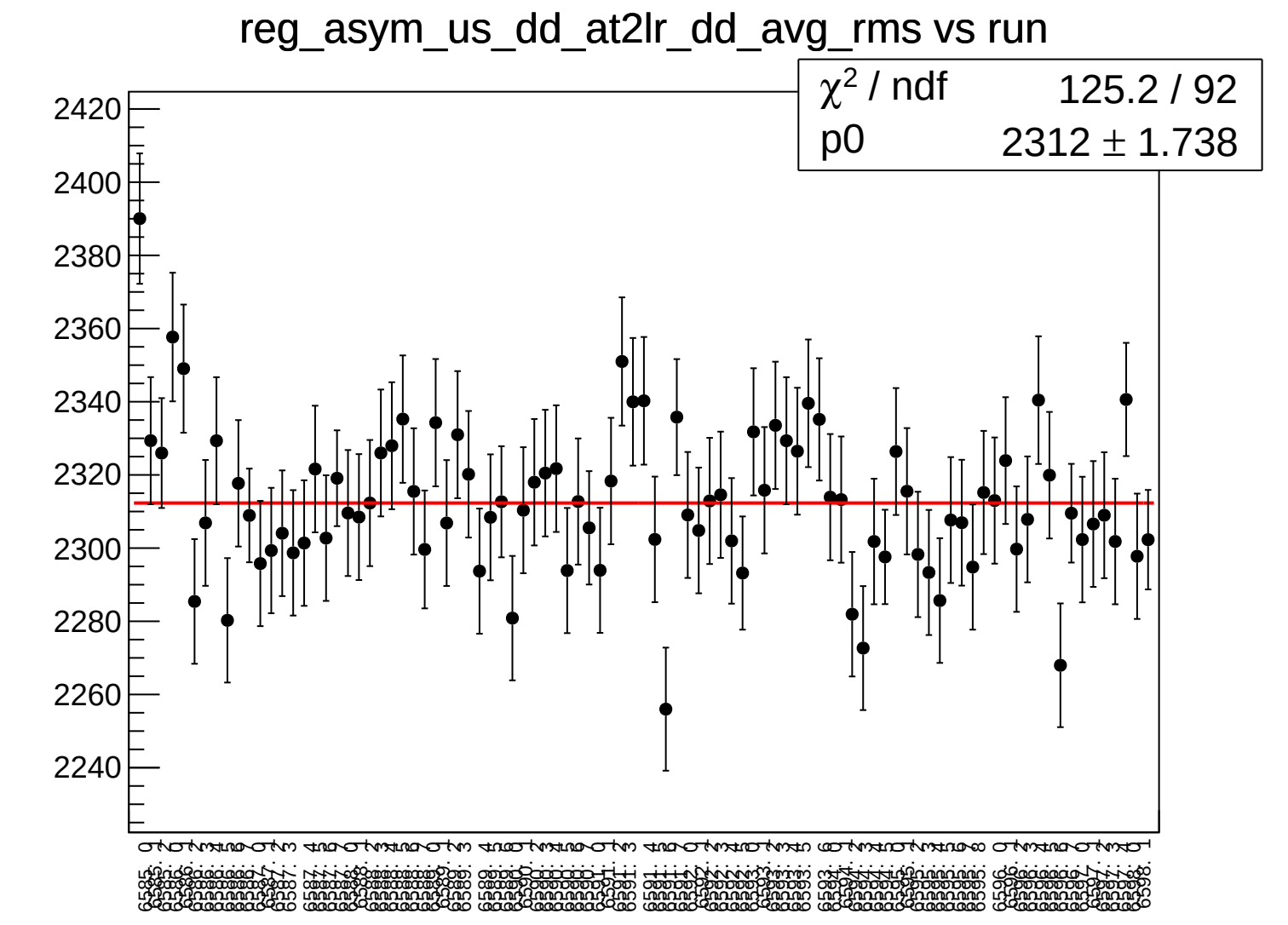

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.86 / 92
p0 −2.768e−15 ± 1.459e−14
pull
Entries 93
Mean 3586
Std Dev 0

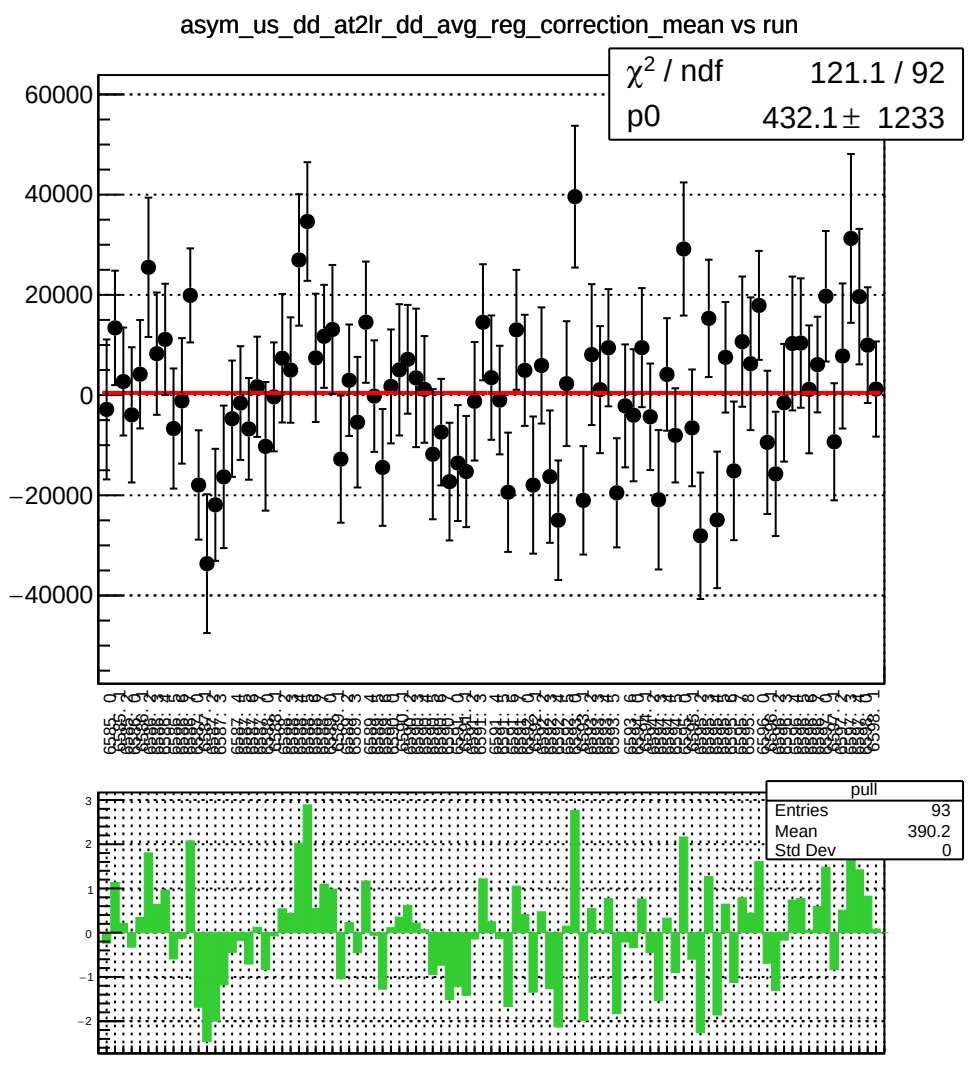

pull1D
Entries 93
Mean 0.0008941
Std Dev 0.9664

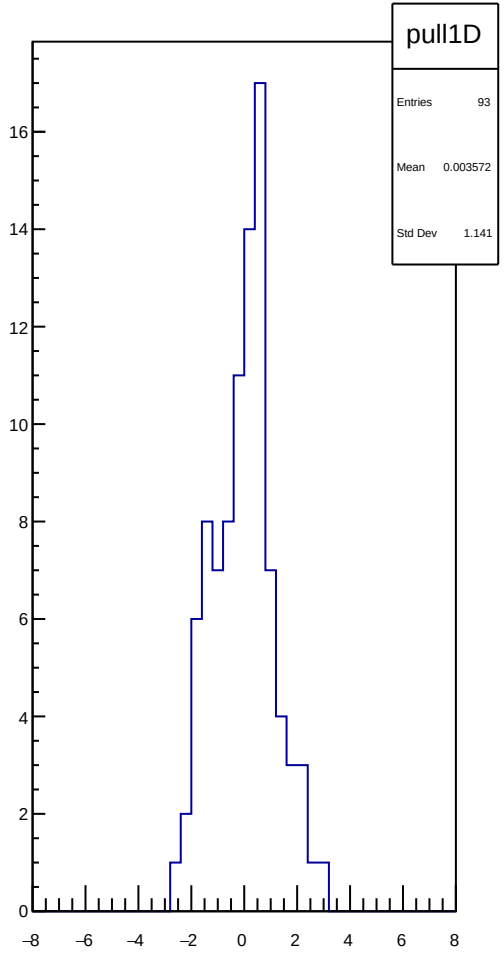

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.649e+05 / 92
p0 1.085e−11 ± 1.032e−14
90
80
70
60
50
40
30
20
10

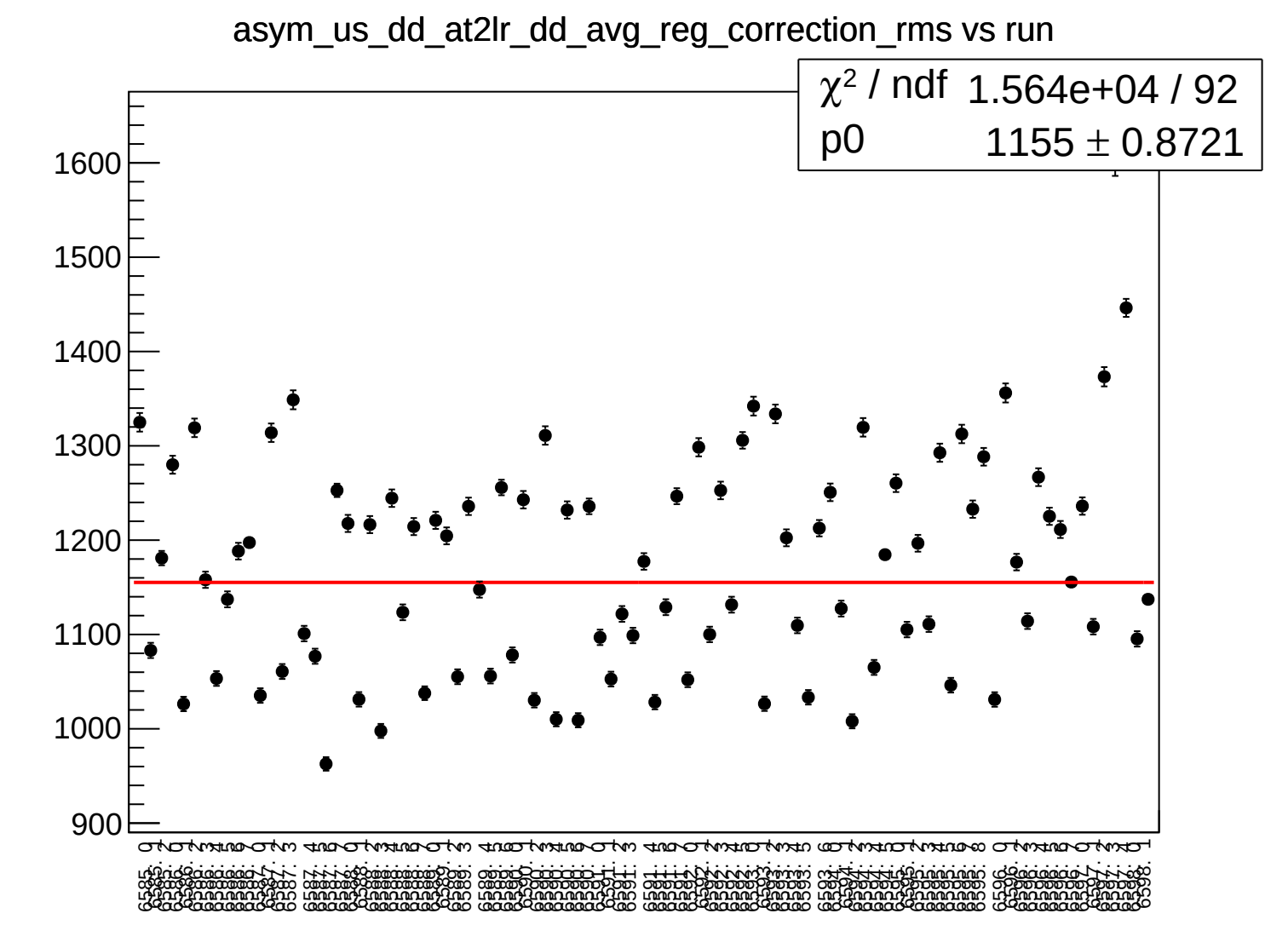

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.22 / 92
p0 2997 ± 2458
100
50
0
−50
−100
pull
Entries 93
Mean 1815
Std Dev 0
2
1
0
−1
−2
−3

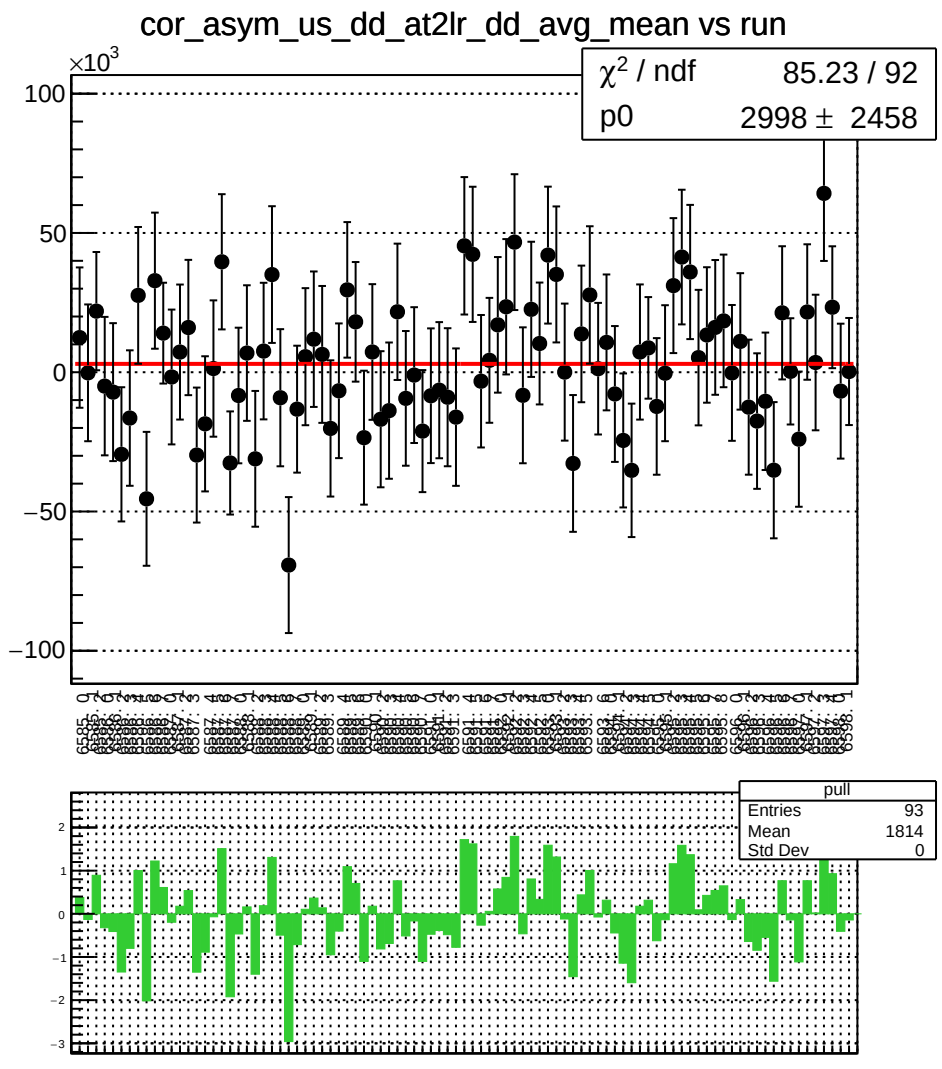

pull1D
Entries 93
Mean 0.002335
Std Dev 0.9573
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

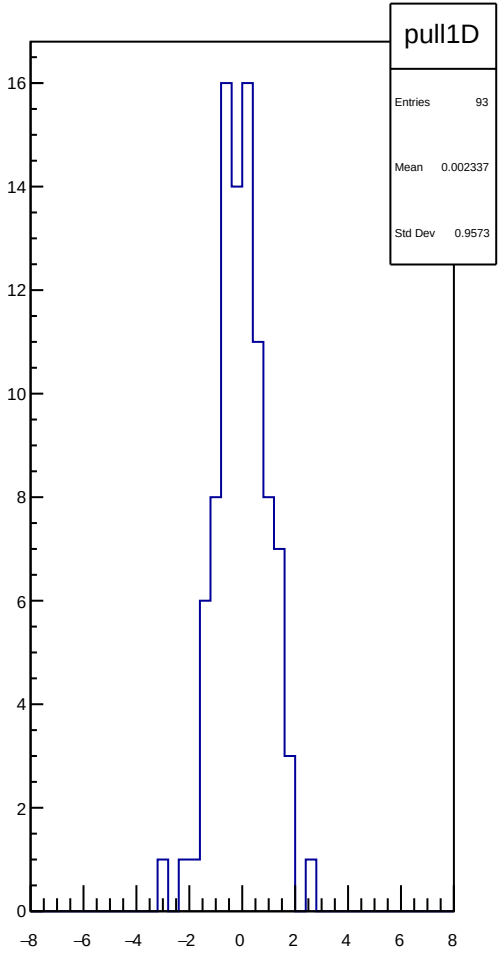

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 125.2 / 92
p0 2312 ± 1.738
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240

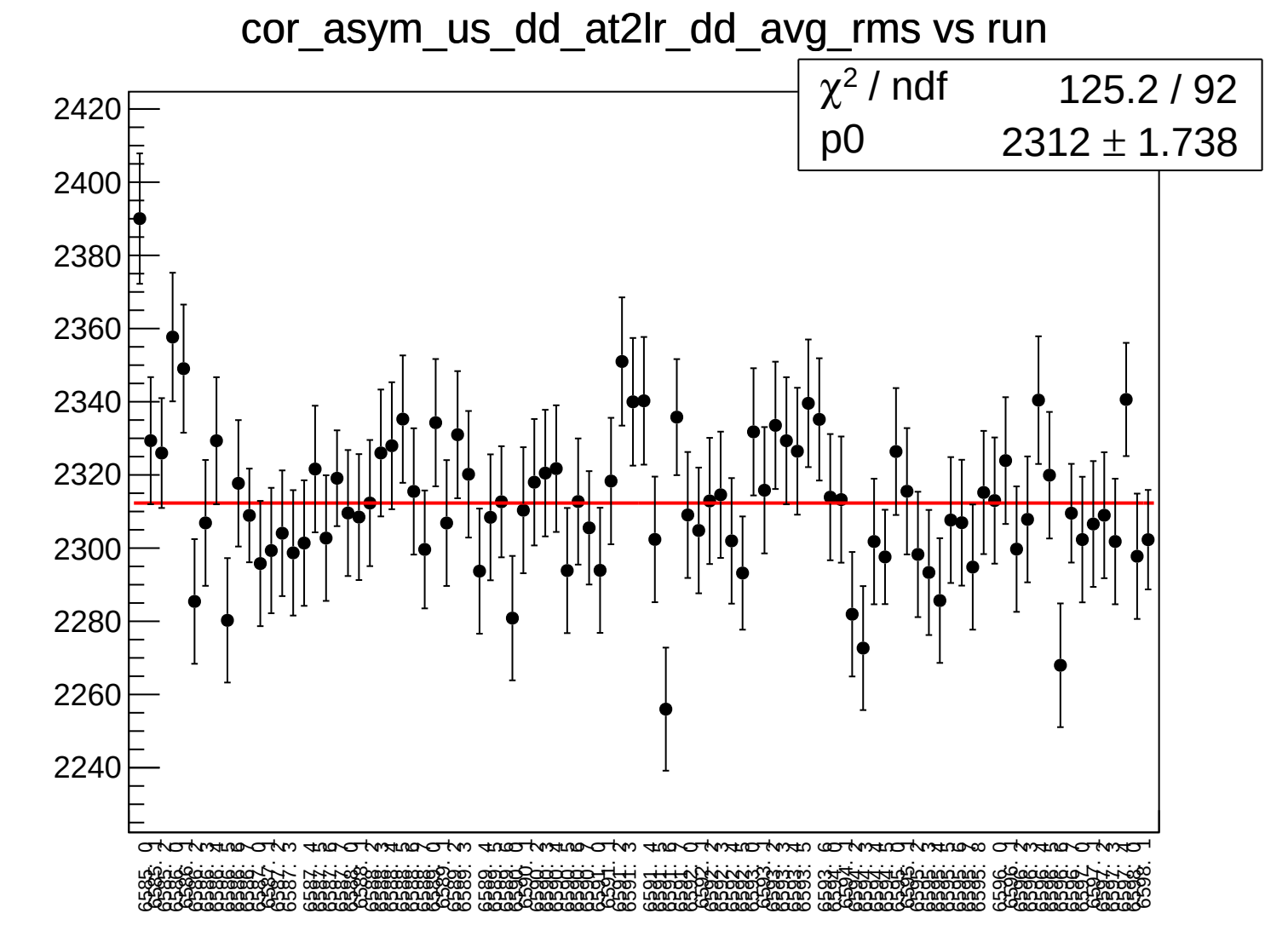

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 121.1 / 92
p0 432.1 ± 1233
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 390.2
Std Dev 0
3
2
1
0
−1
−2

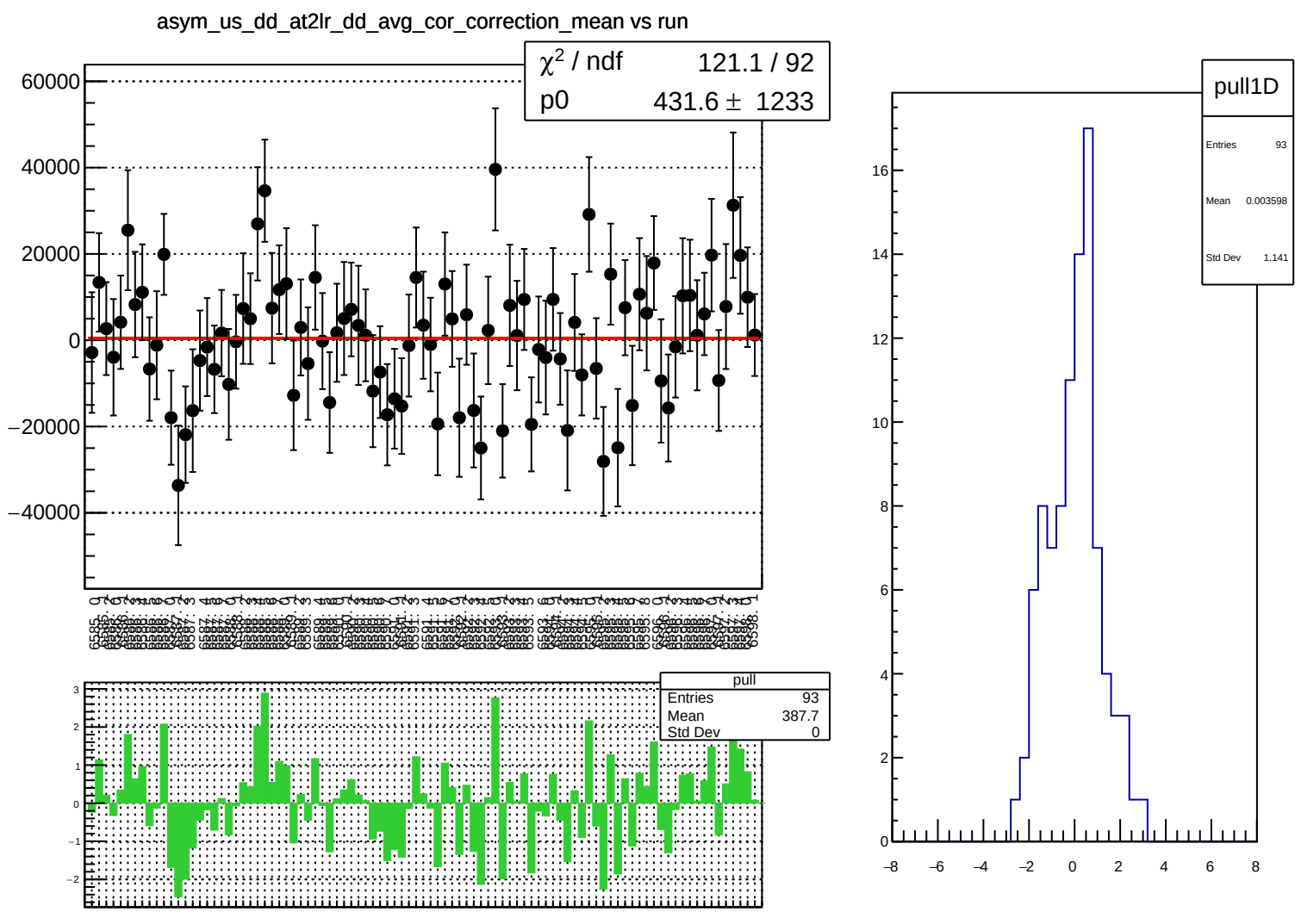

pull1D
Entries 93
Mean 0.003572
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

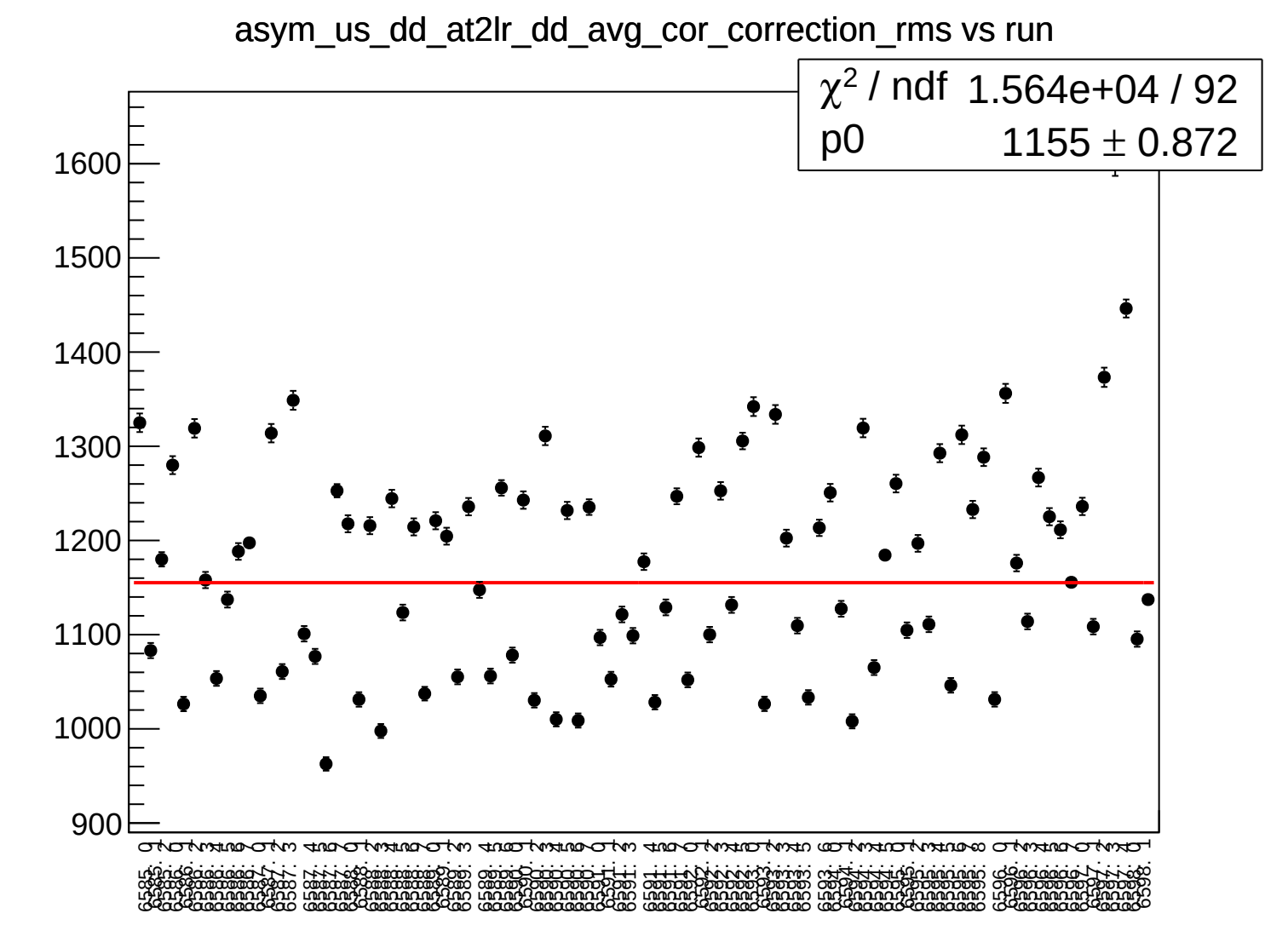

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.564e+04 / 92
p0 1155 ± 0.8721
1600
1500
1400
1300
1200
1100
1000
900

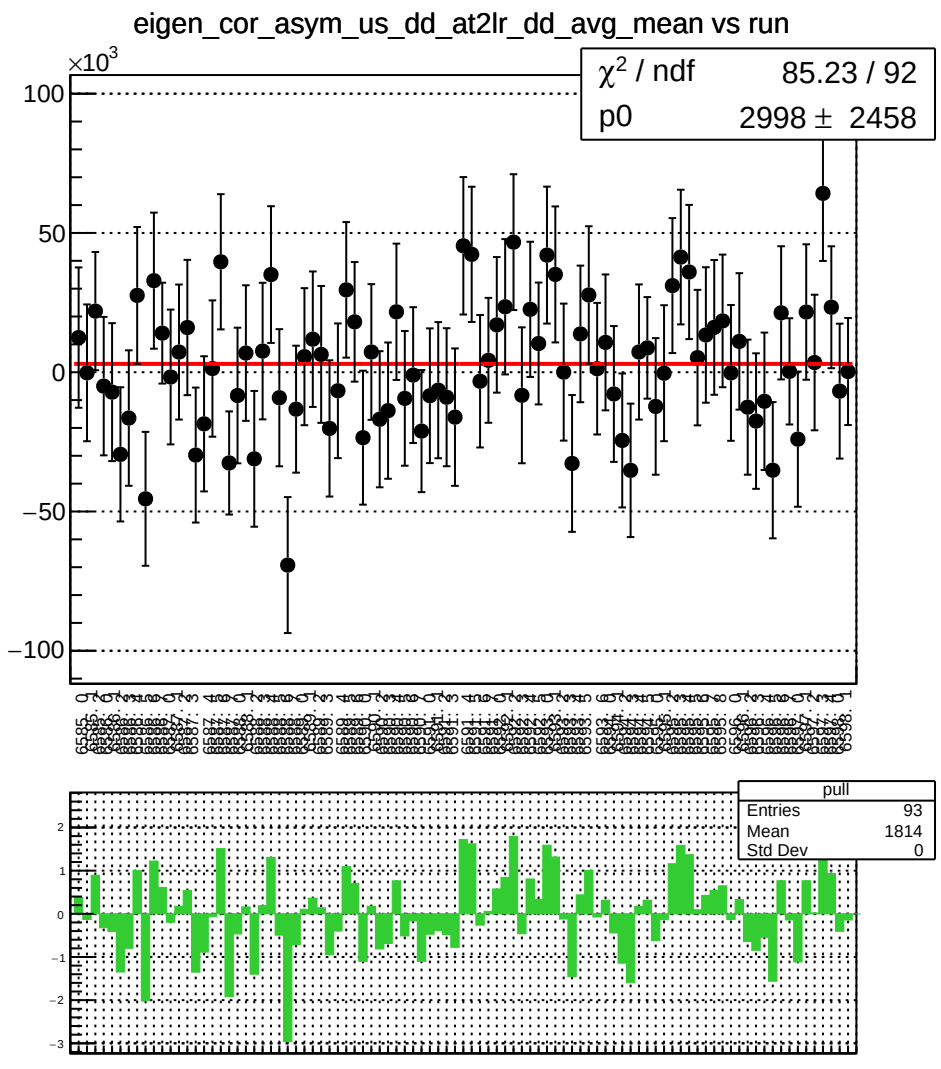

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 85.23 / 92
p0 2998 ± 2458
100
50
0
−50
−100
pull
Entries 93
Mean 1814
Std Dev 0
2
1
0
−1
−2
−3

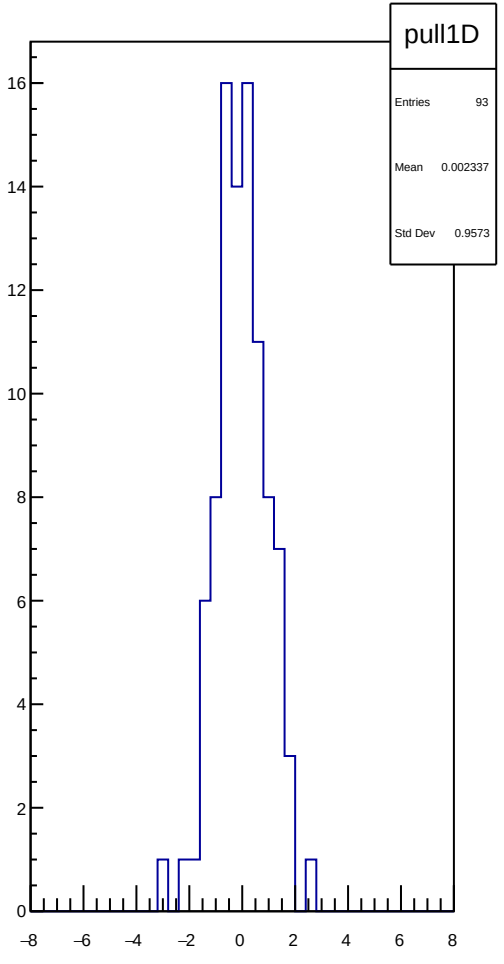

pull1D
Entries 93
Mean 0.002337
Std Dev 0.9573
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

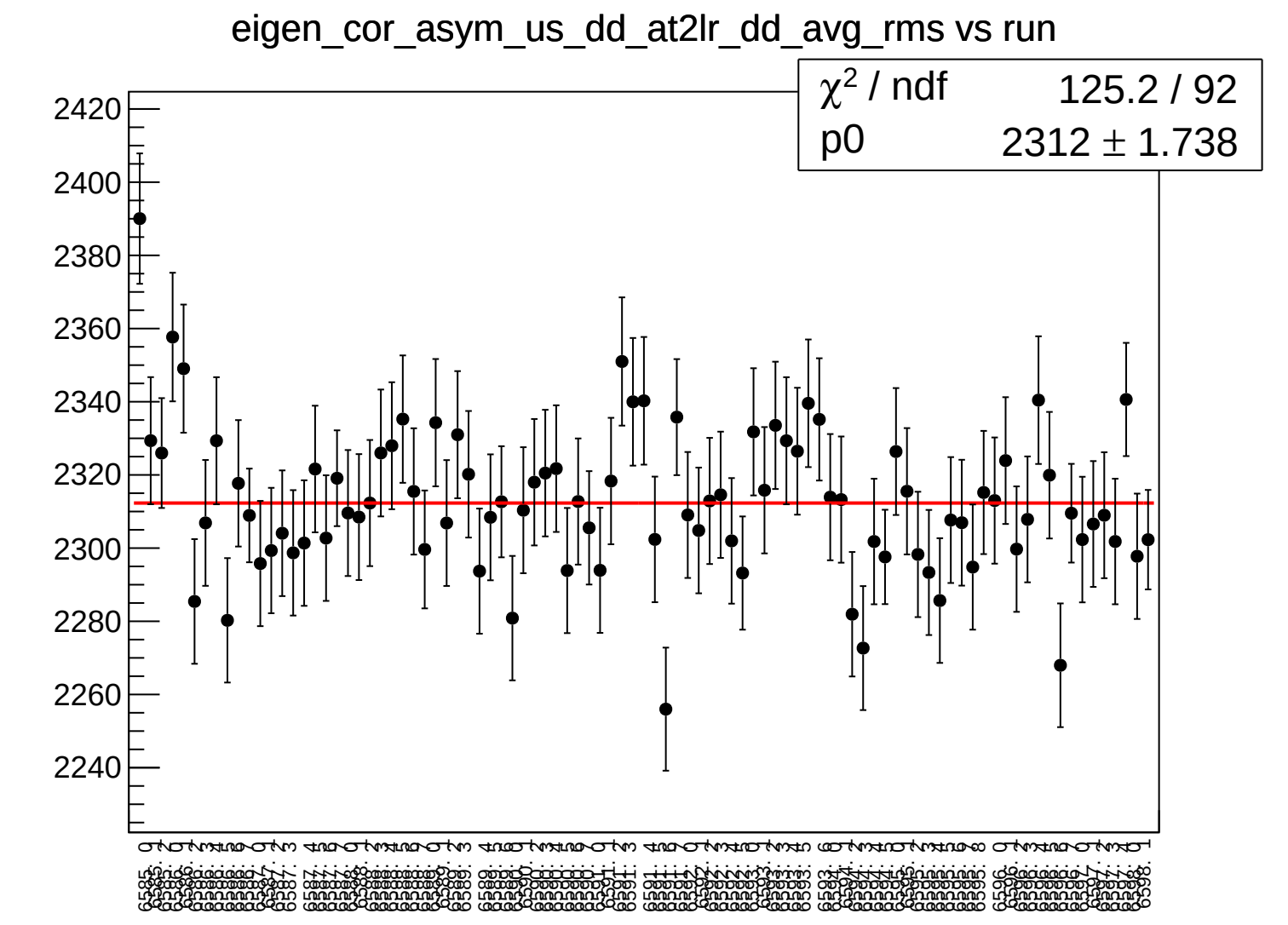

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 125.2 / 92
p0 2312 ± 1.738
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240

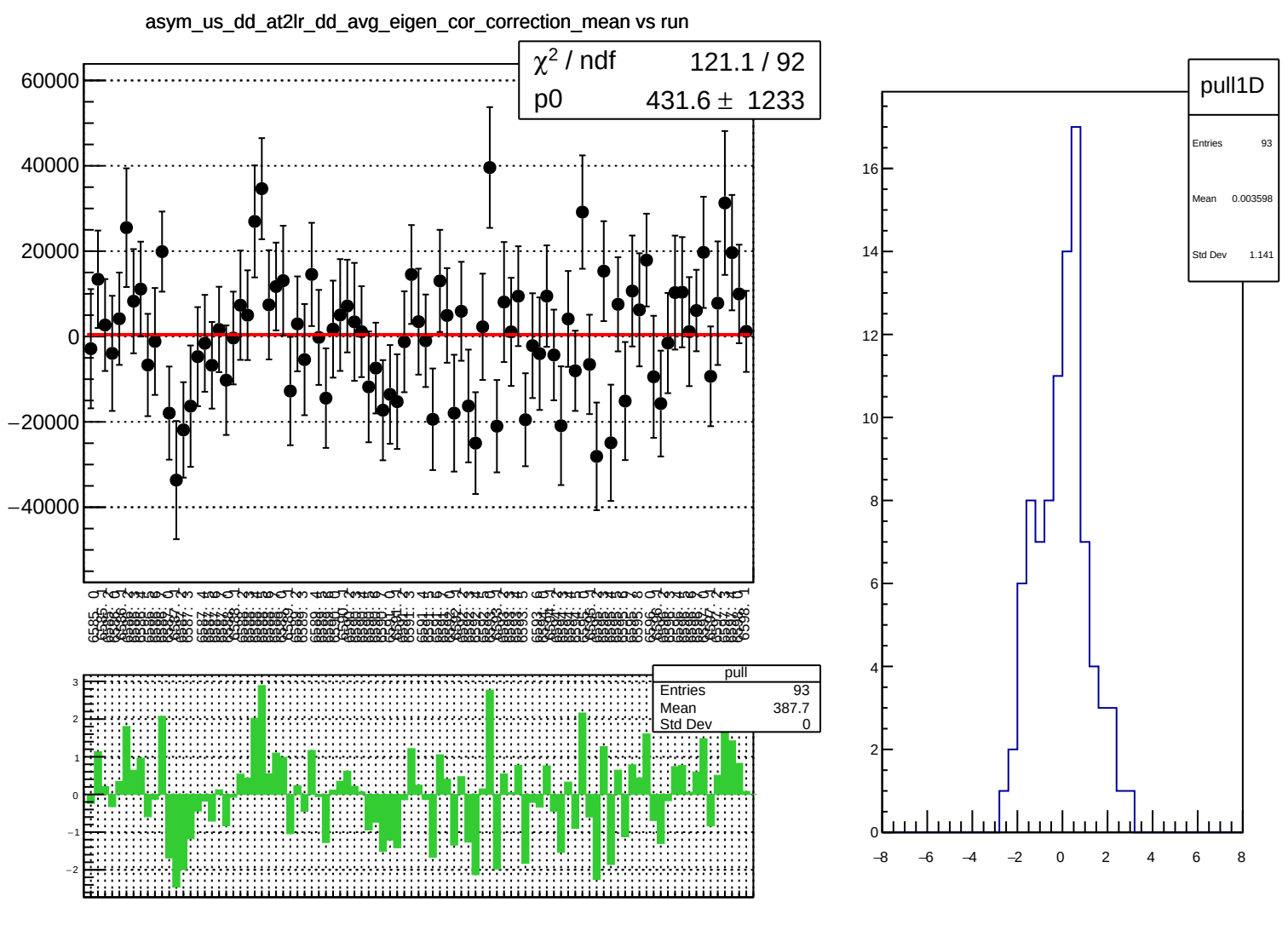

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 121.1 / 92
p0 431.6 ± 1233
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 387.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003598
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

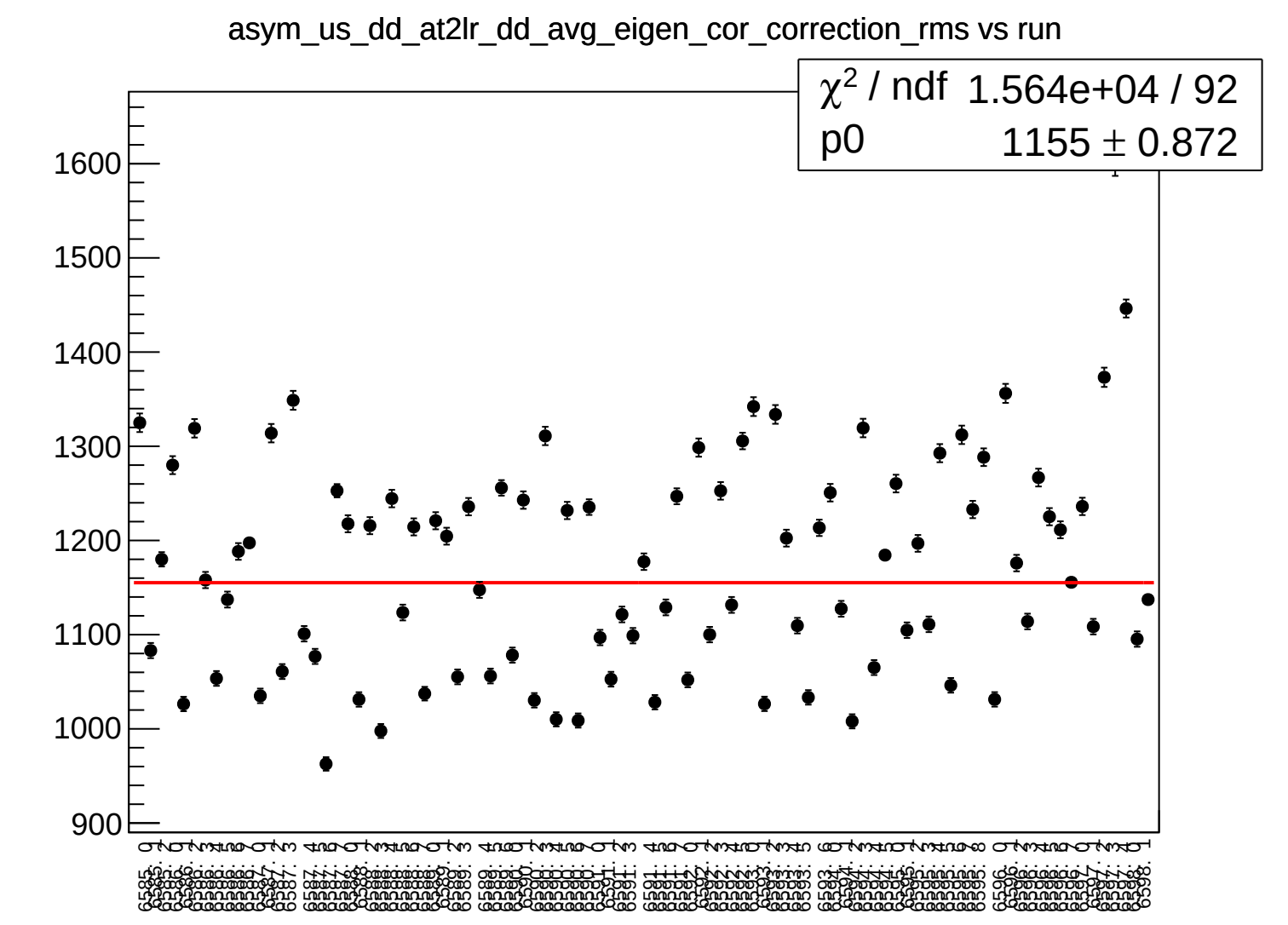

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.564e+04 / 92
p0 1155 ± 0.872
1600
1500
1400
1300
1200
1100
1000
900

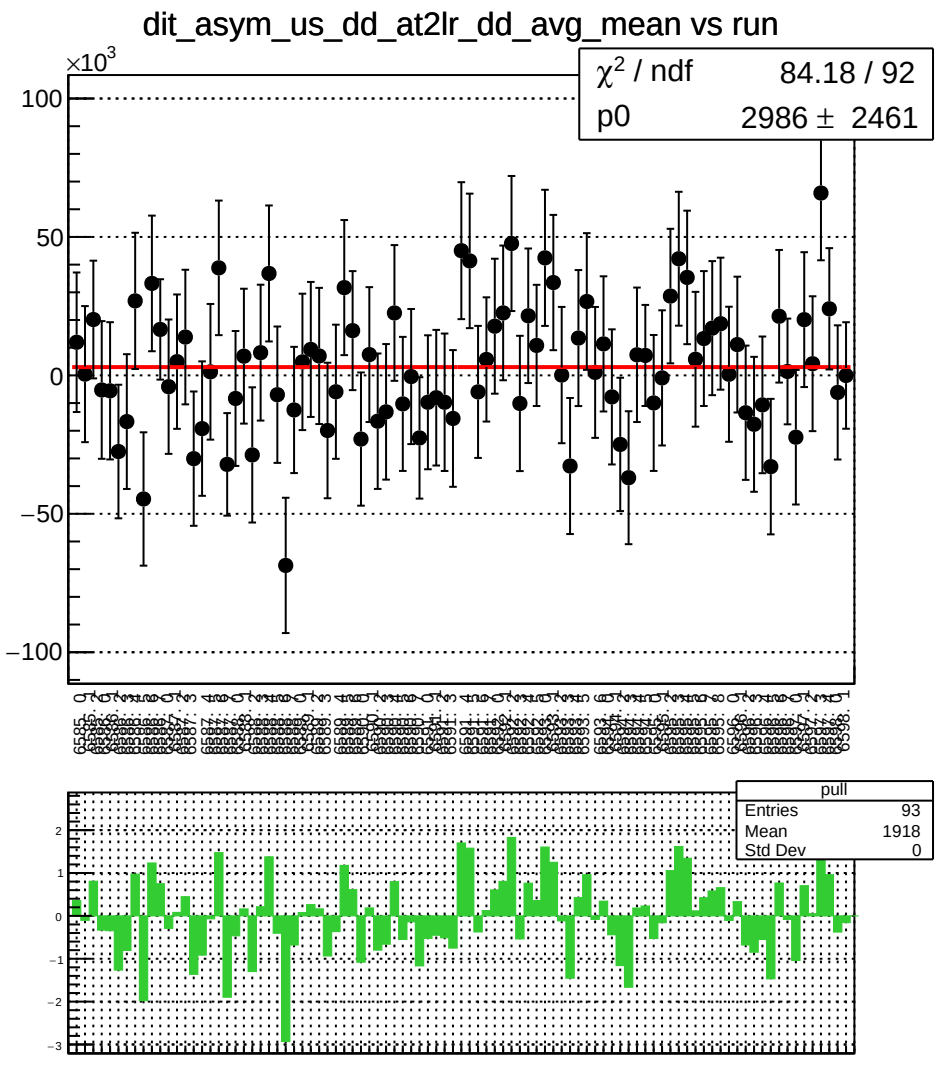

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 85.23 / 92
p0 2998 ± 2458
100
50
0
−50
−100
pull
Entries 93
Mean 1814
Std Dev 0
2
1
0
−1
−2
−3

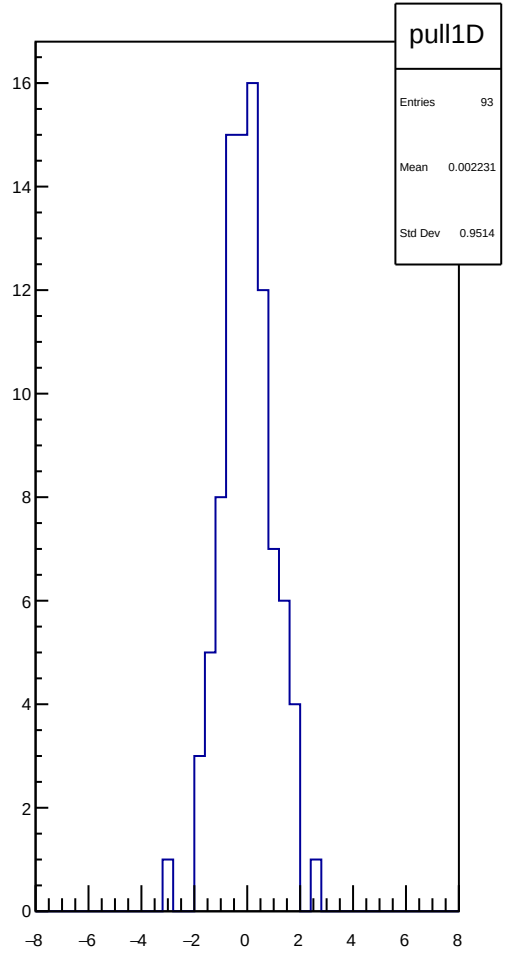

pull1D
Entries 93
Mean 0.002337
Std Dev 0.9573
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

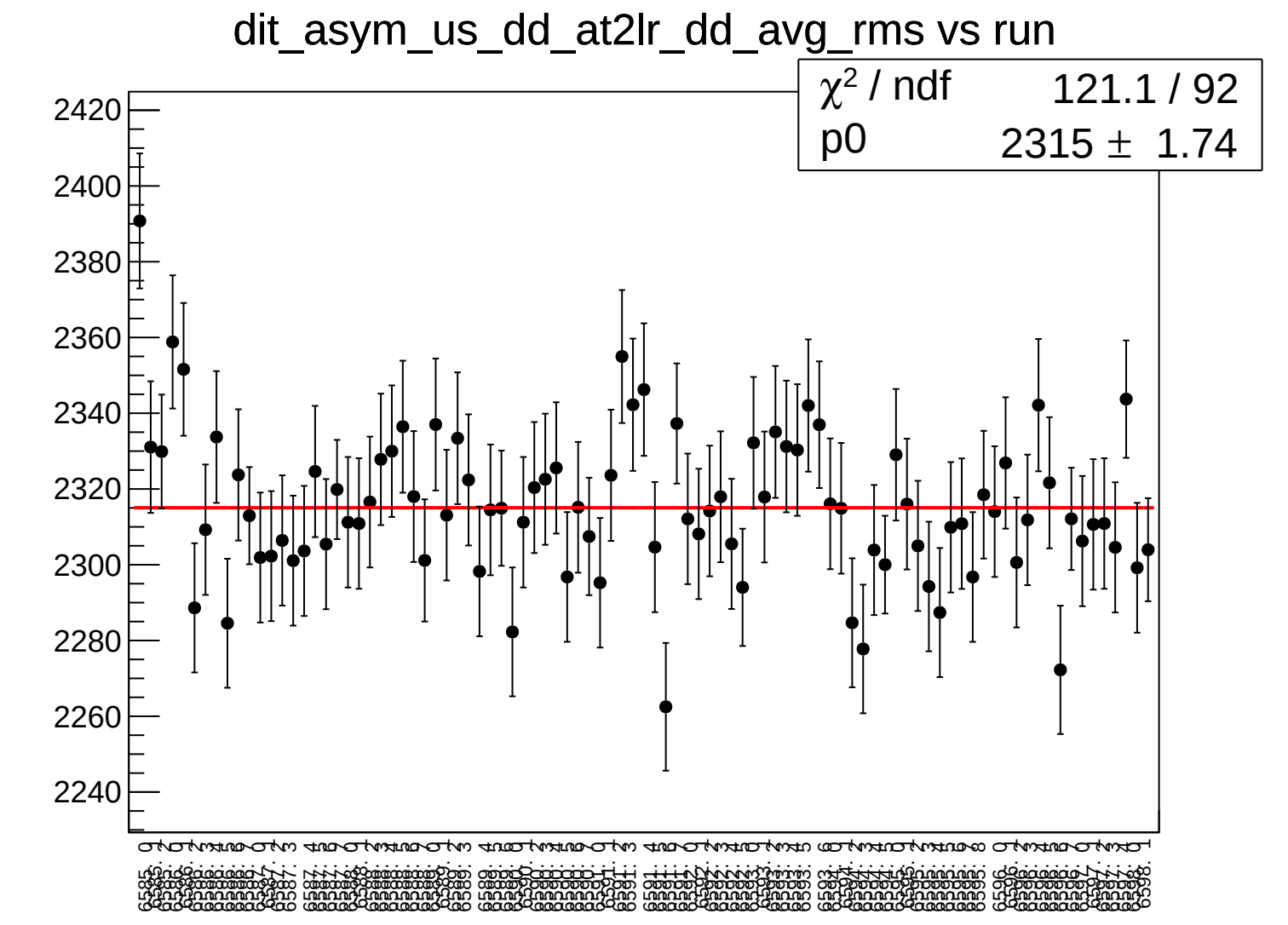

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 125.2 / 92
p0 2312 ± 1.738
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240

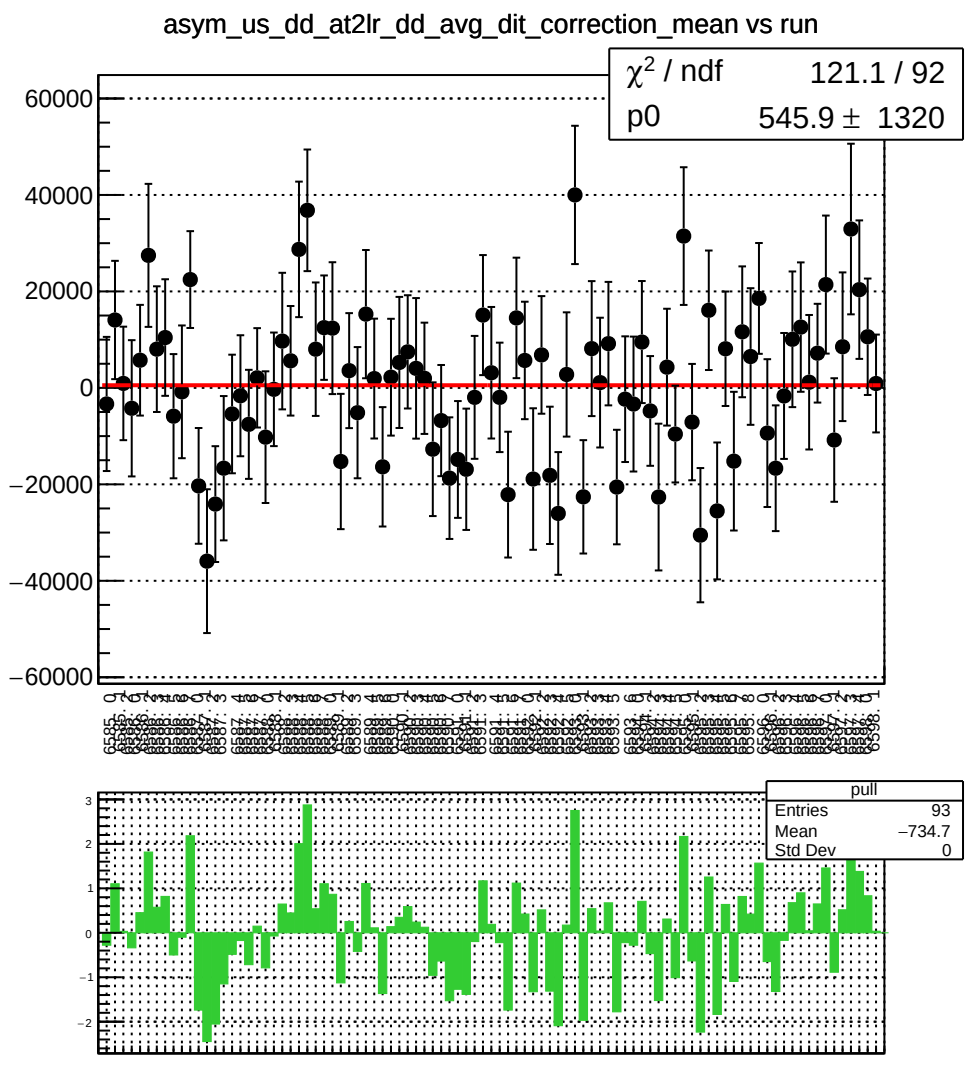

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 121.1 / 92
p0 431.6 ± 1233
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 387.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003598
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

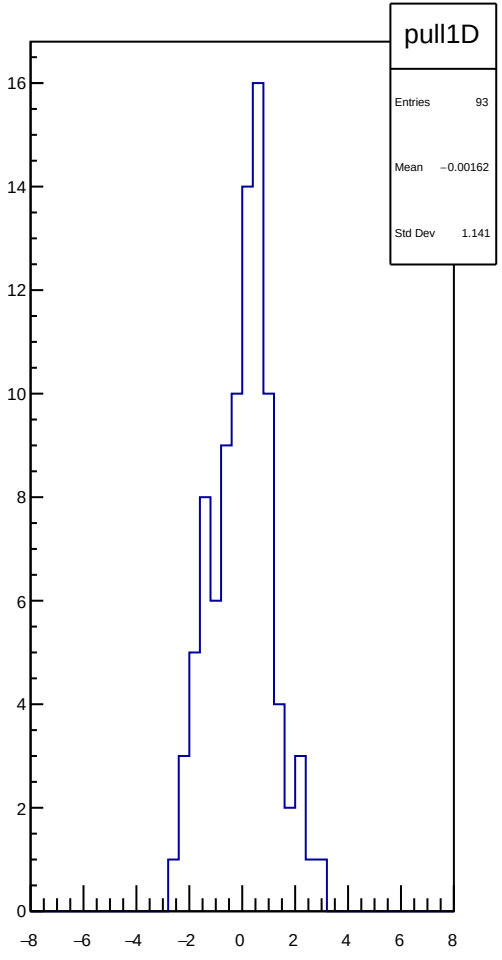

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.564e+04 / 92
p0 1155 ± 0.872
1600
1500
1400
1300
1200
1100
1000
900

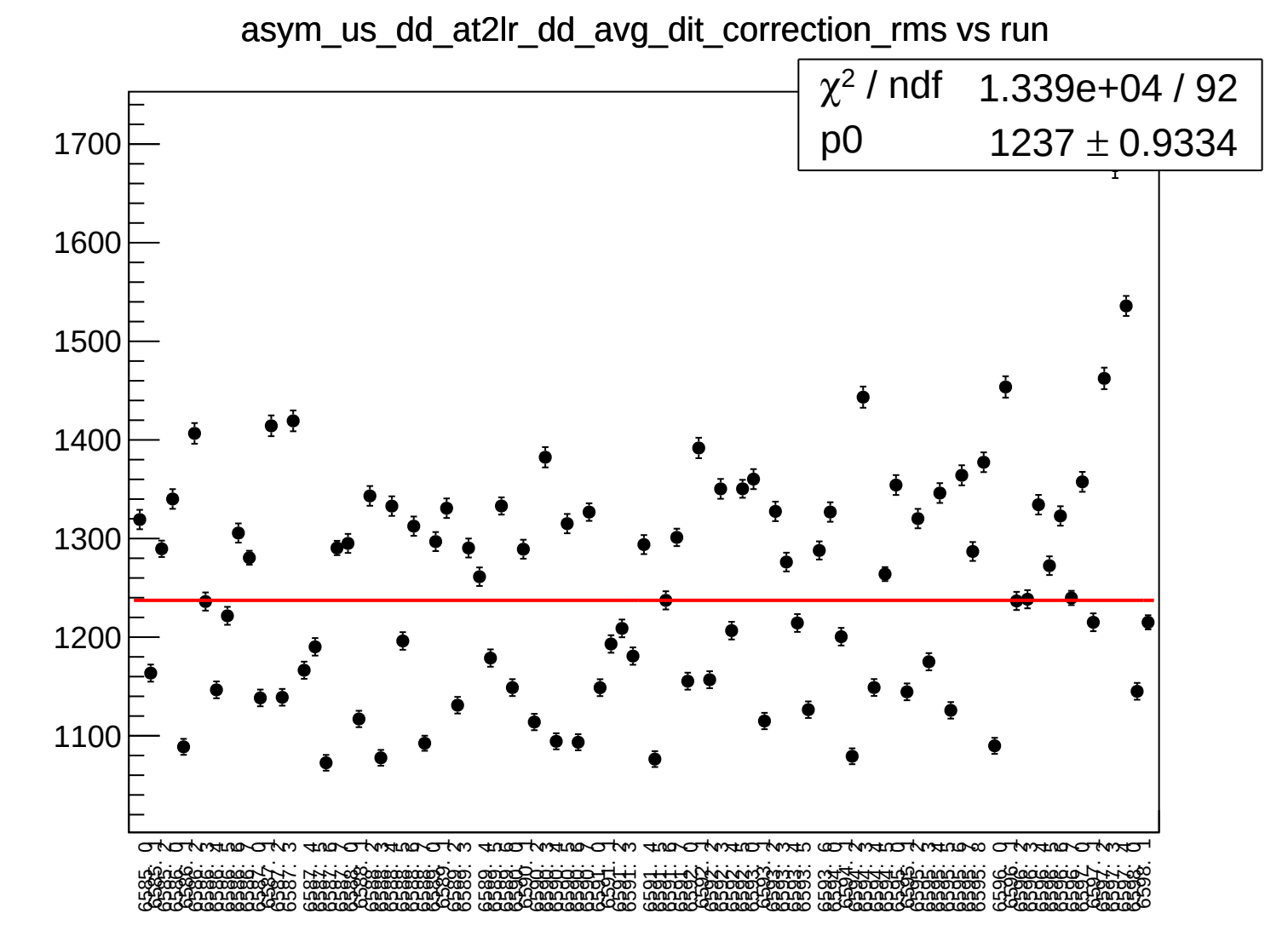

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 84.18 / 92
p0 2986 ± 2461
100
50
0
−50
−100
pull
Entries 93
Mean 1918
Std Dev 0
2
1
0
−1
−2
−3

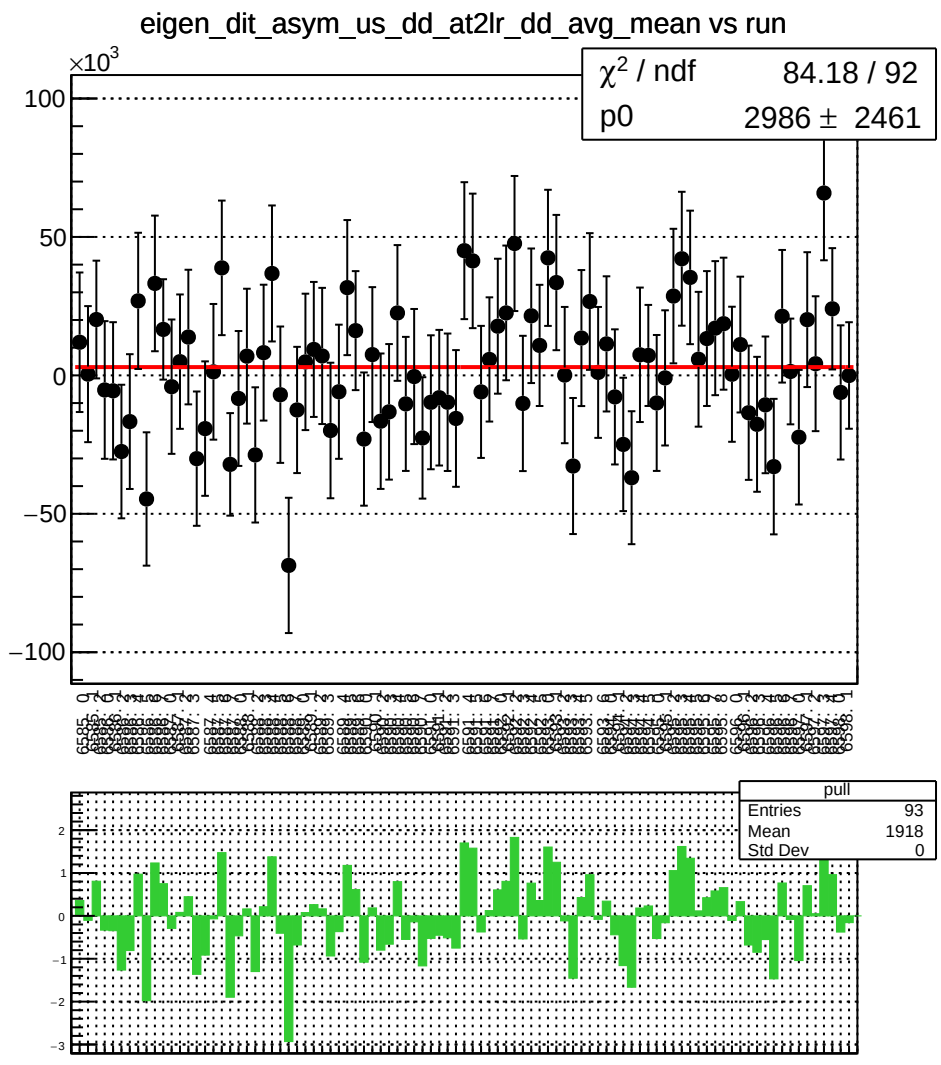

pull1D
Entries 93
Mean 0.002231
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

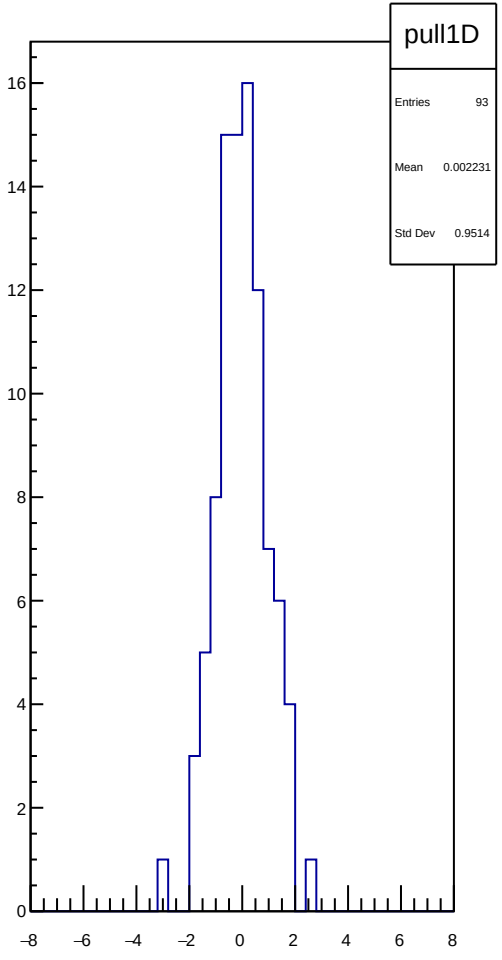

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 121.1 / 92
p0 2315 ± 1.74
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240

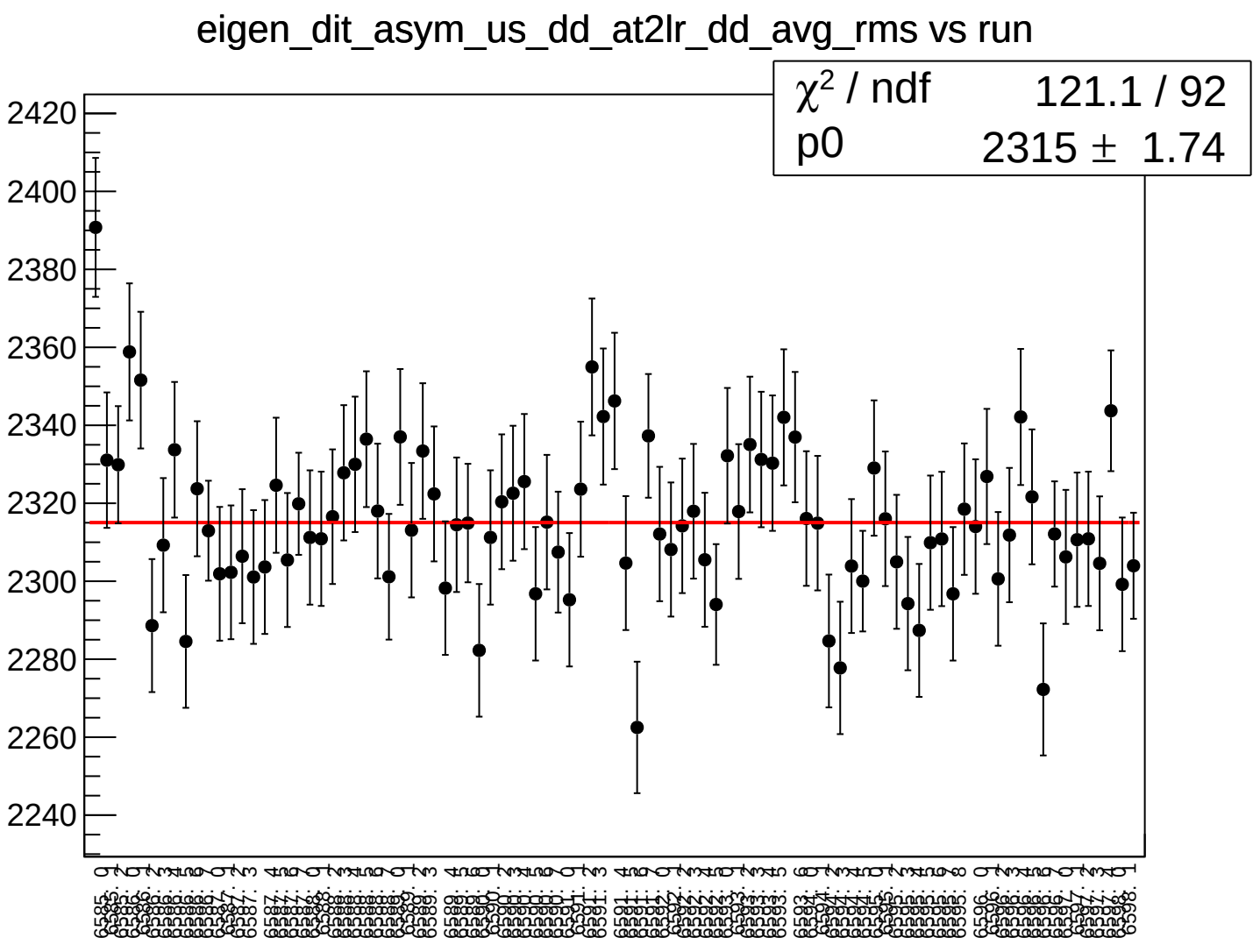

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 121.1 / 92
p0 545.9 ± 1320
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −734.7
Std Dev 0
3
2
1
0
−1
−2

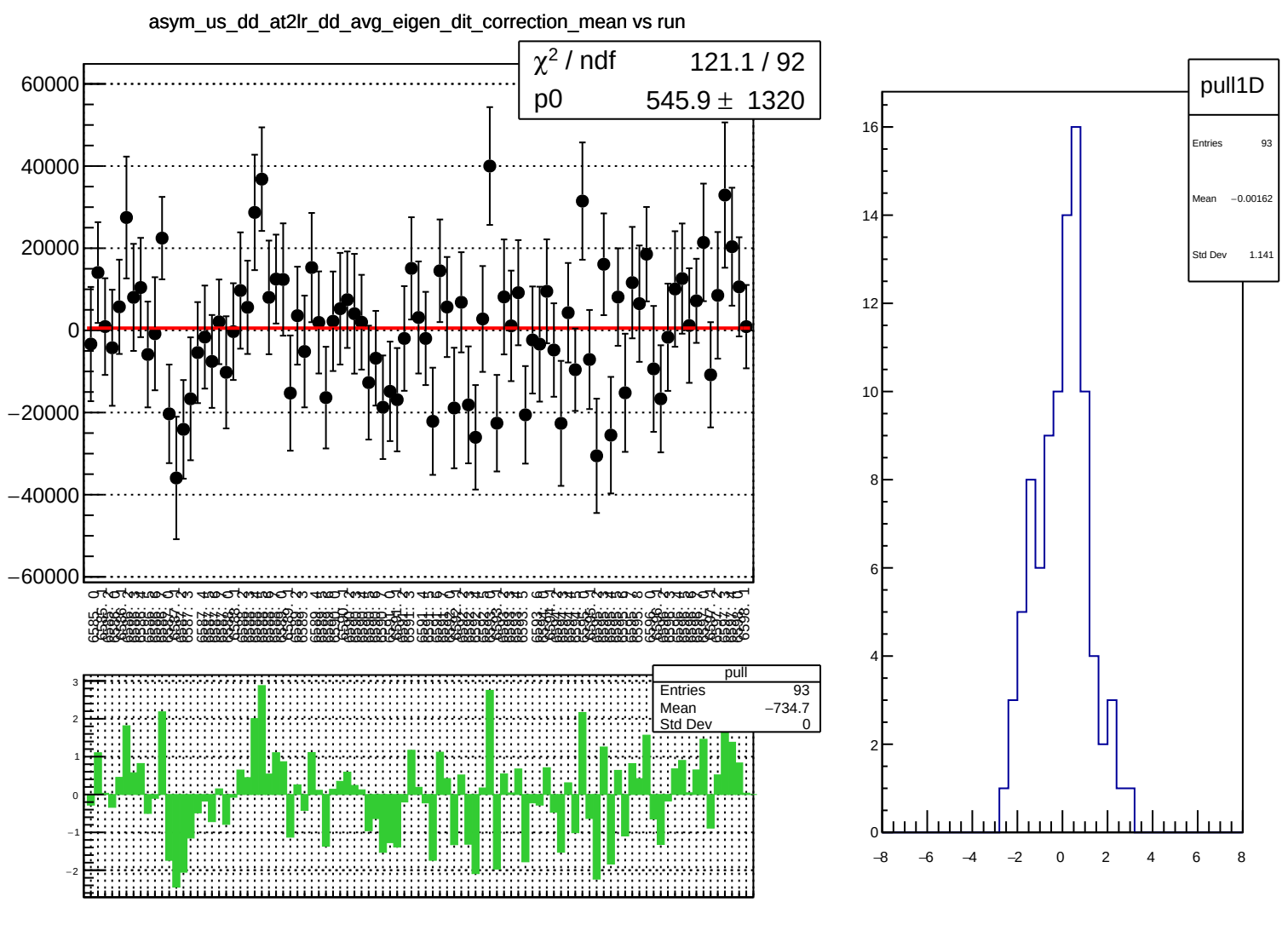

pull1D
Entries 93
Mean −0.00162
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

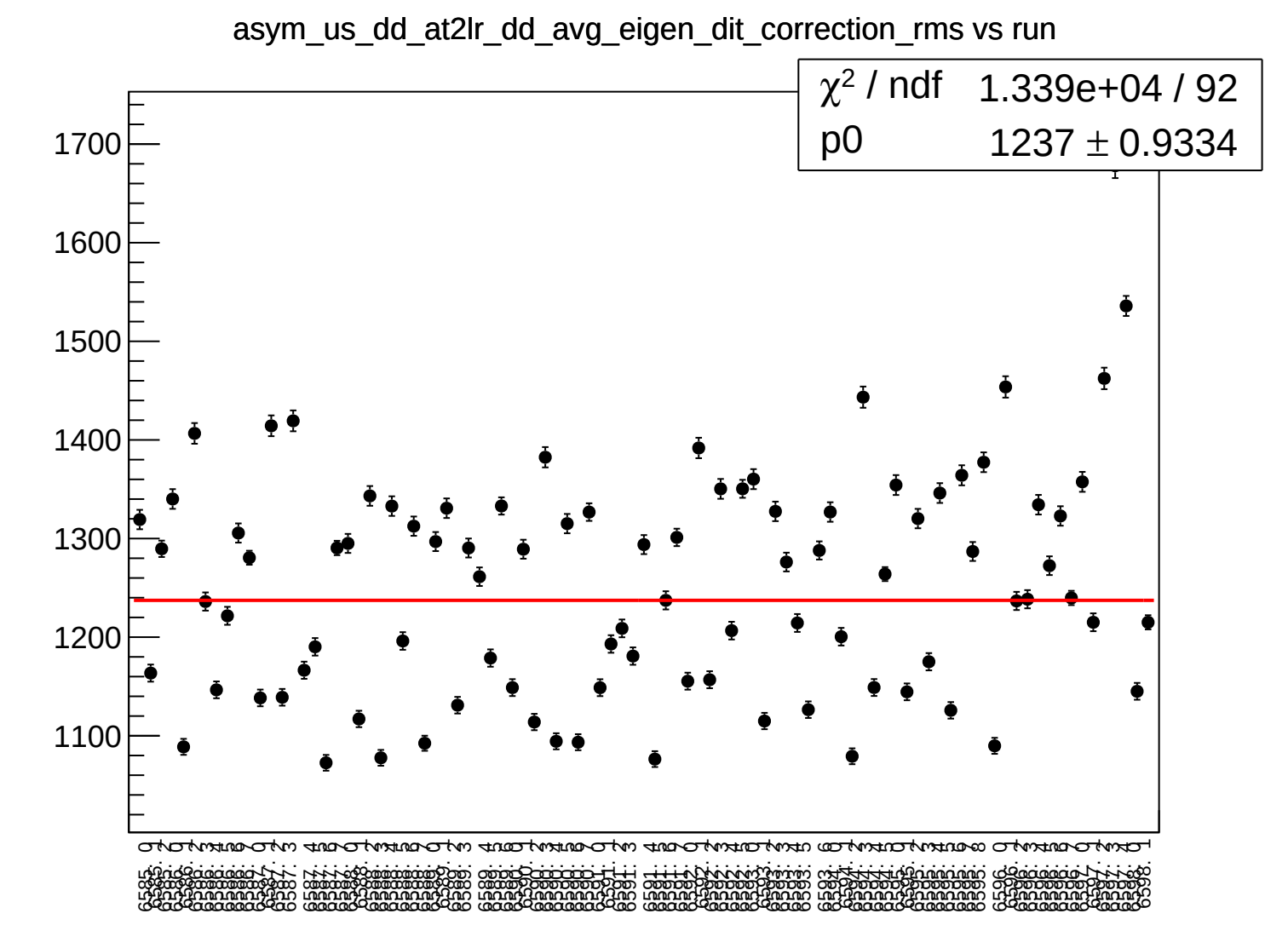

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.339e+04 / 92
p0 1237 ± 0.9334
1700
1600
1500
1400
1300
1200
1100

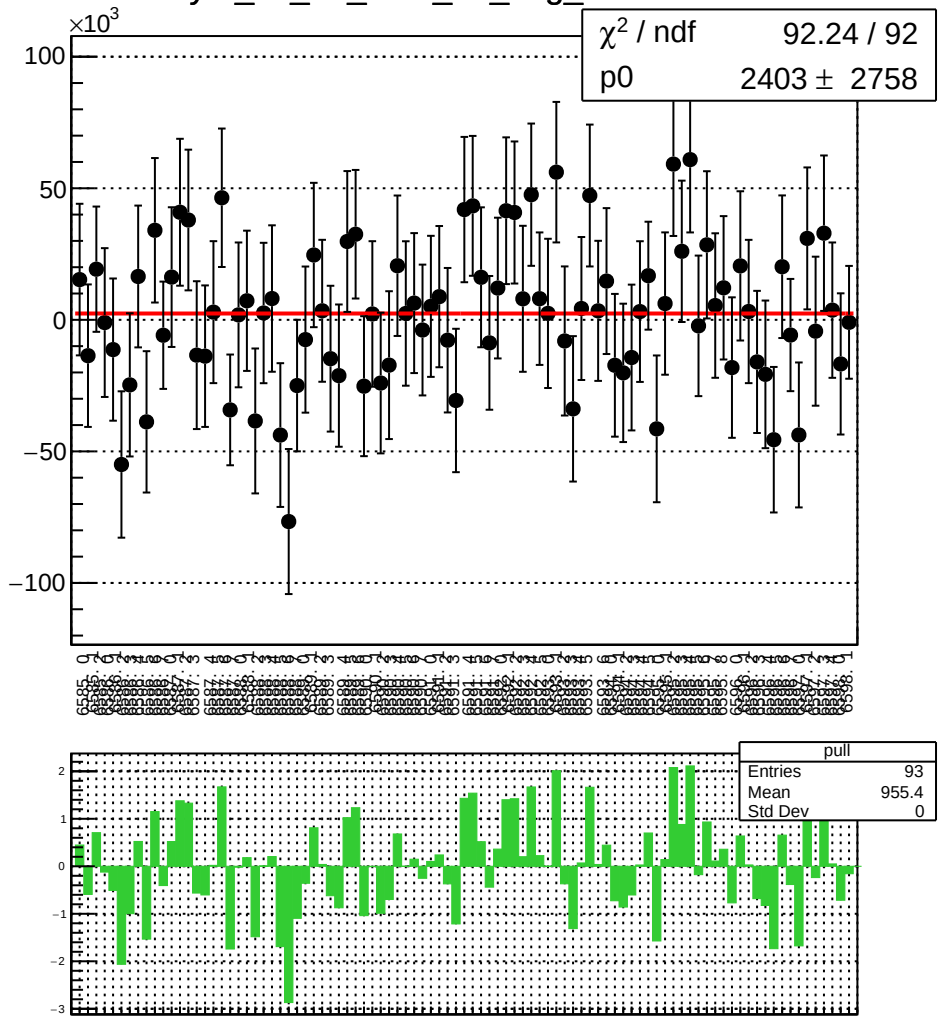

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 84.18 / 92
p0 2986 ± 2461
pull
Entries 93
Mean 1918
Std Dev 0

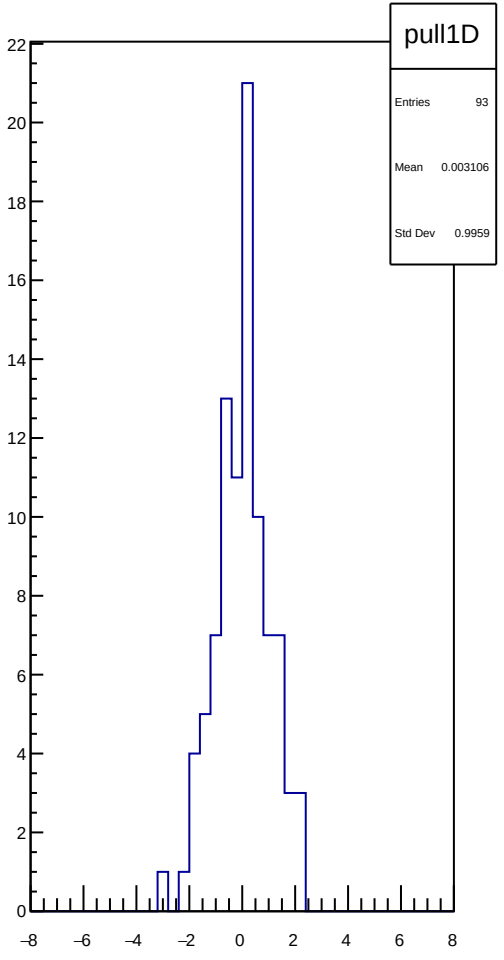

pull1D
Entries 93
Mean 0.002231
Std Dev 0.9514

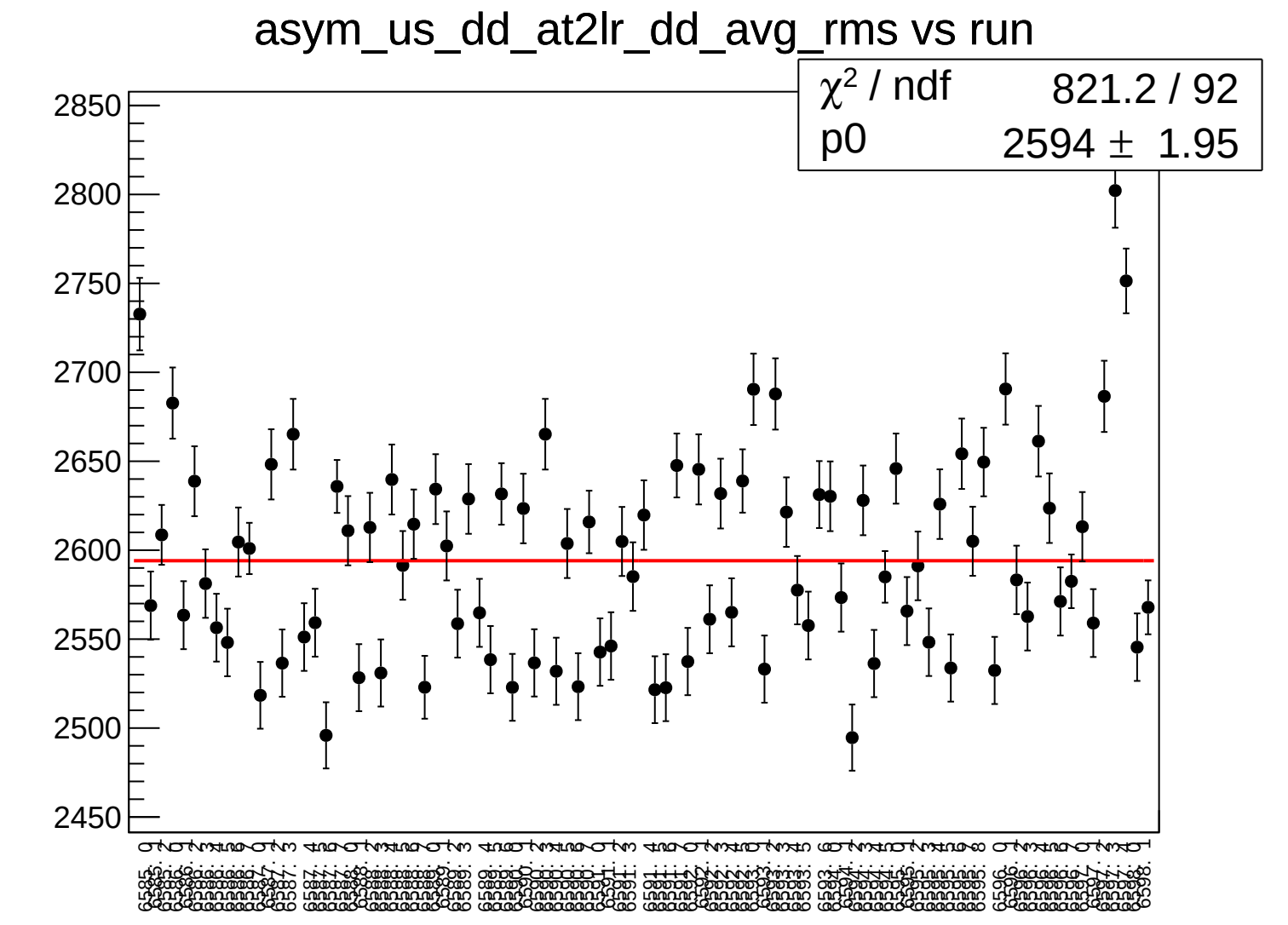

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 121.1 / 92
p0 2315 ± 1.74
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240

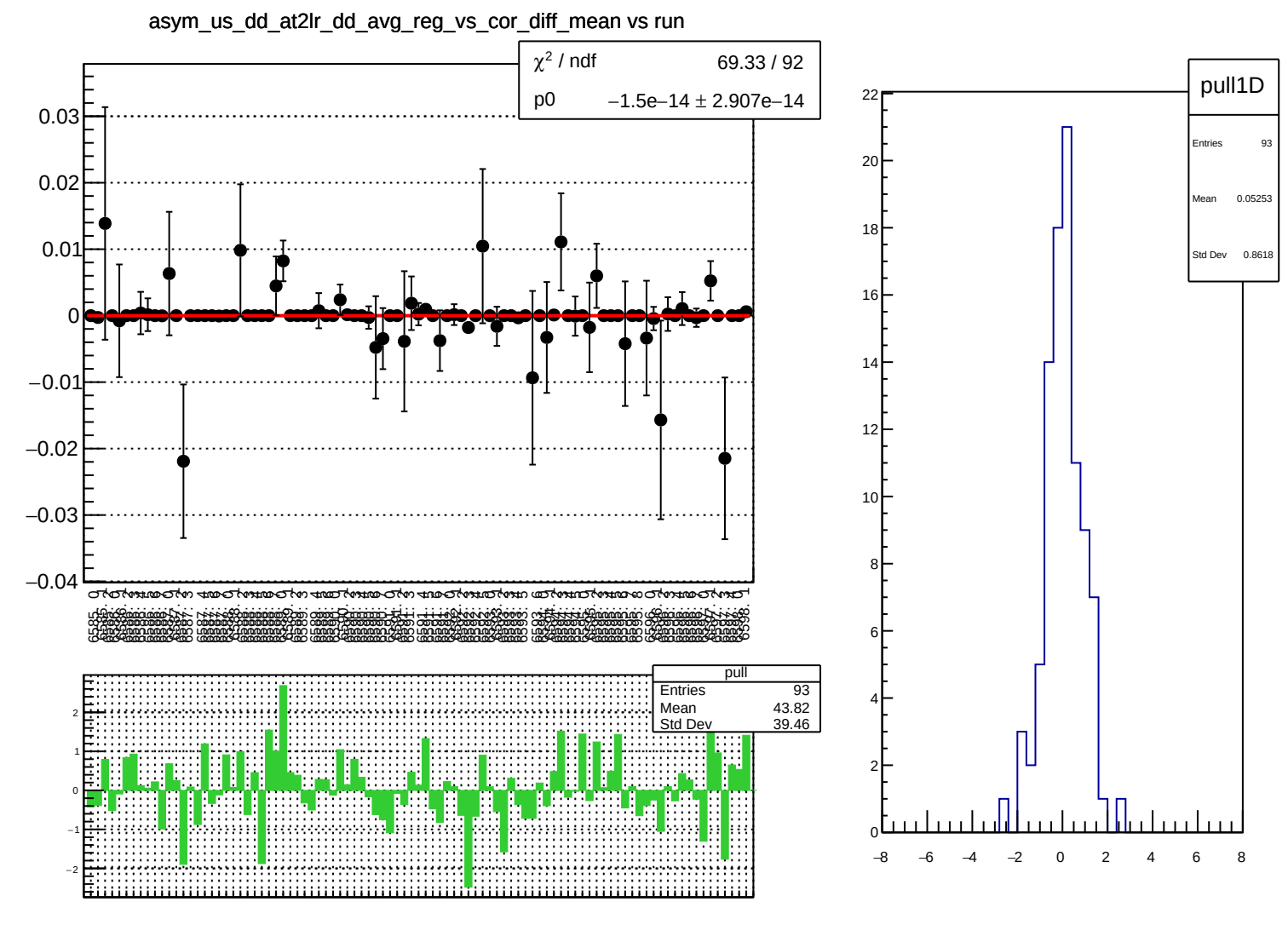

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 121.1 / 92
p0 545.9 ± 1320
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −734.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.00162
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

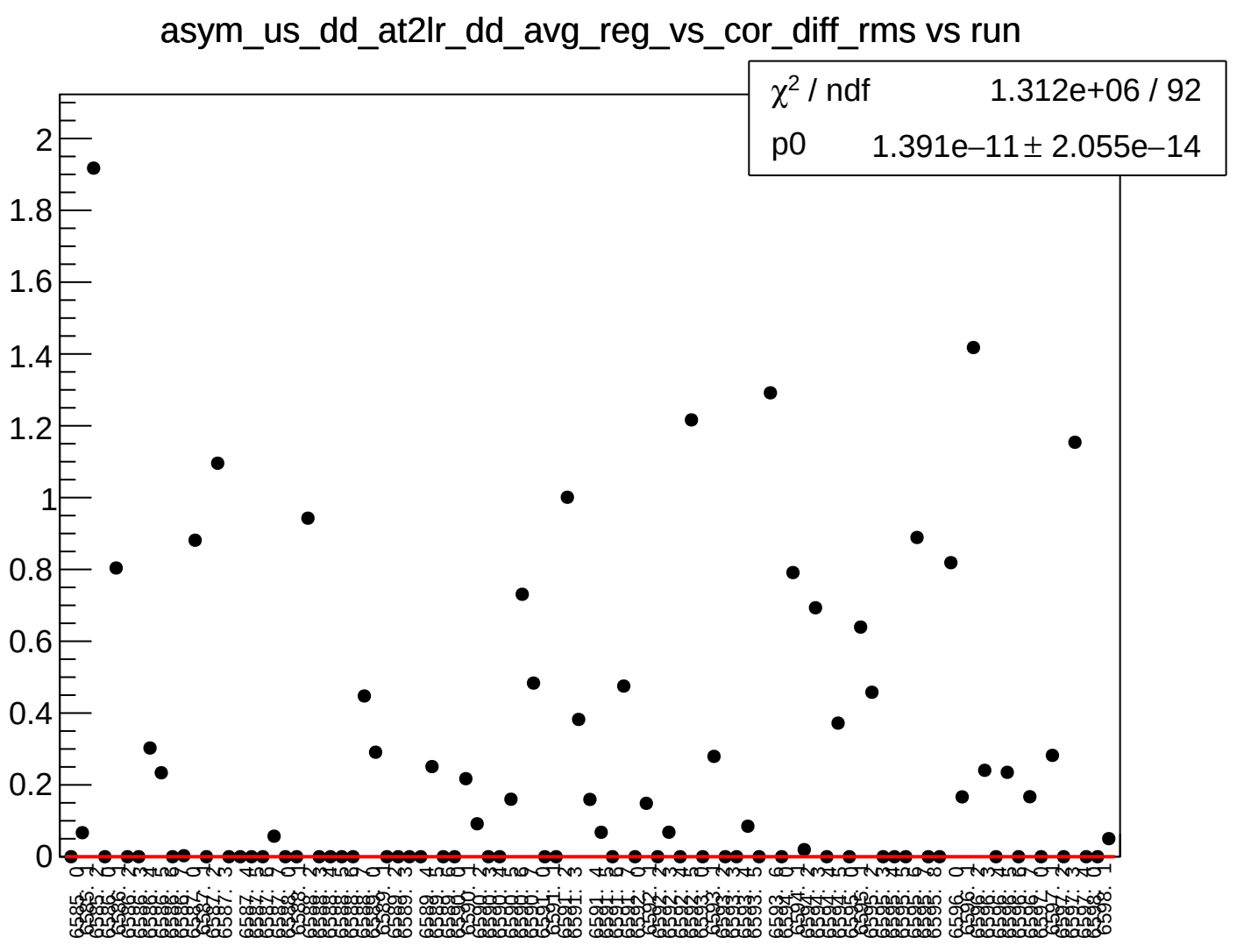

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.339e+04 / 92
p0 1237 ± 0.9334
1700
1600
1500
1400
1300
1200
1100

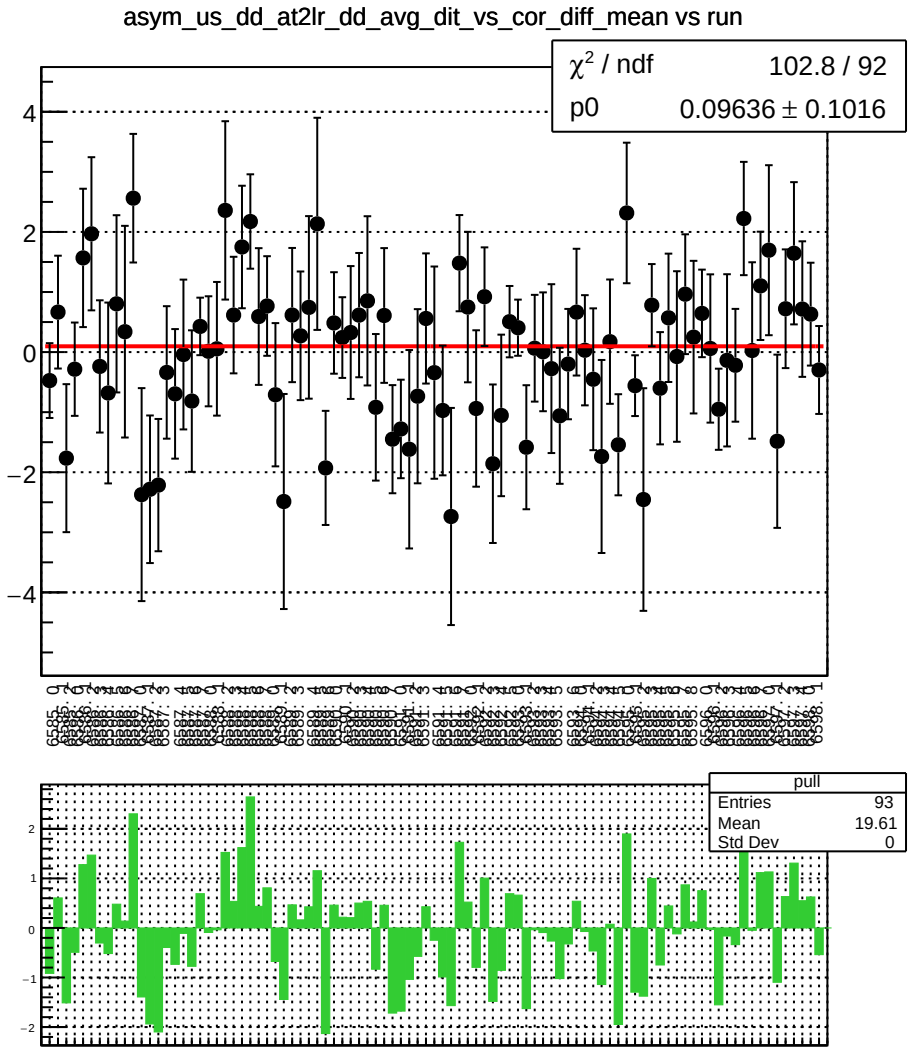

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 92.24 / 92
p0 2403 ± 2758
100
50
0
−50
−100
pull
Entries 93
Mean 955.4
Std Dev 0
2
1
0
−1
−2
−3

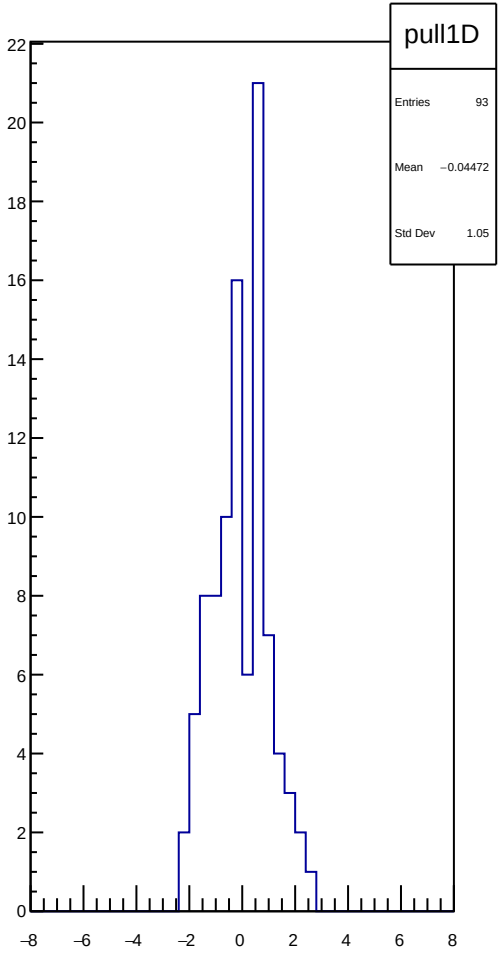

pull1D
Entries 93
Mean 0.003106
Std Dev 0.9959
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

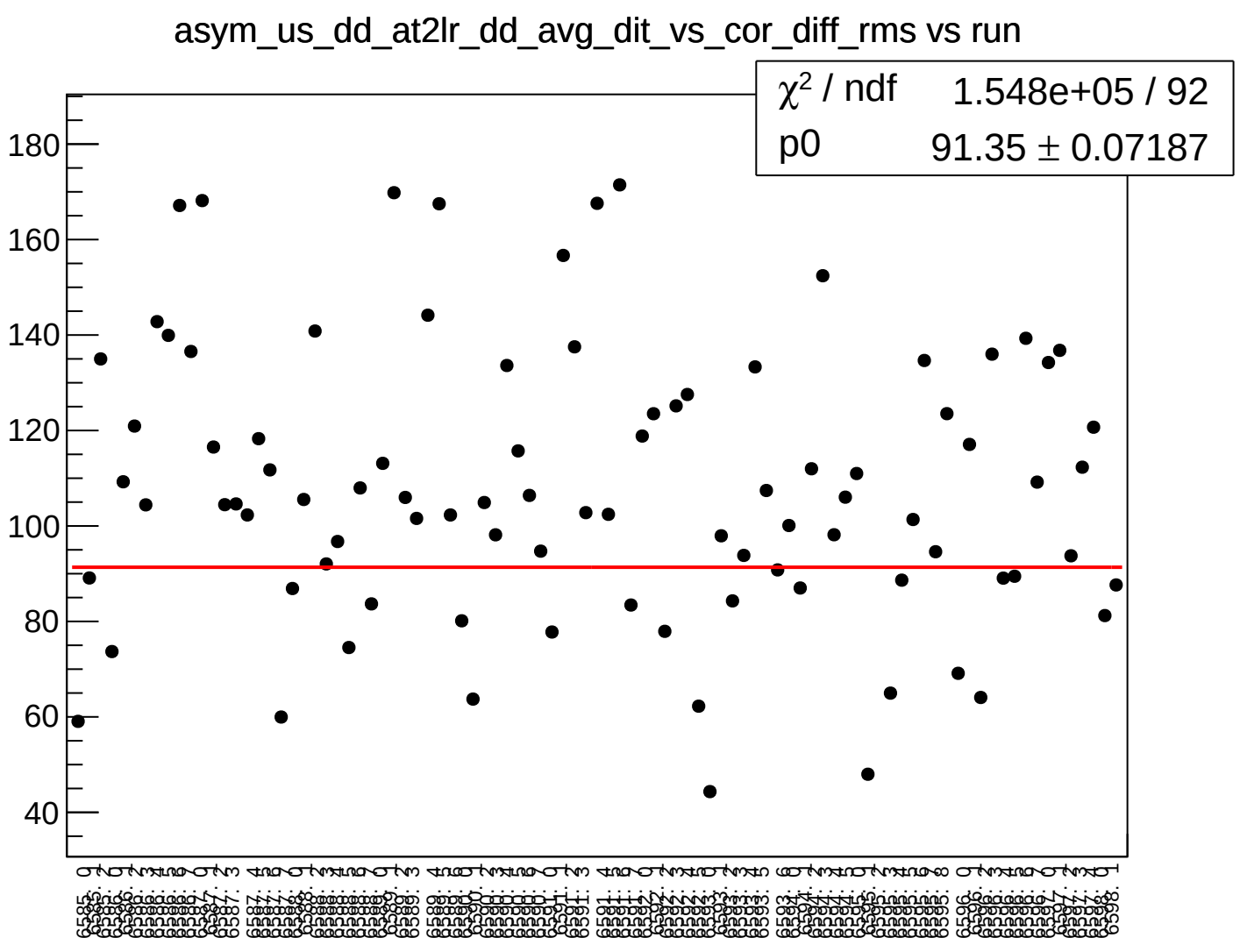

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 821.2 / 92
p0 2594 ± 1.95
2850
2800
2750
2700
2650
2600
2550
2500
2450


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.33 / 92
p0 −1.5e−14 ± 2.907e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 93
Mean 43.82
Std Dev 39.46
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.05253
Std Dev 0.8618
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

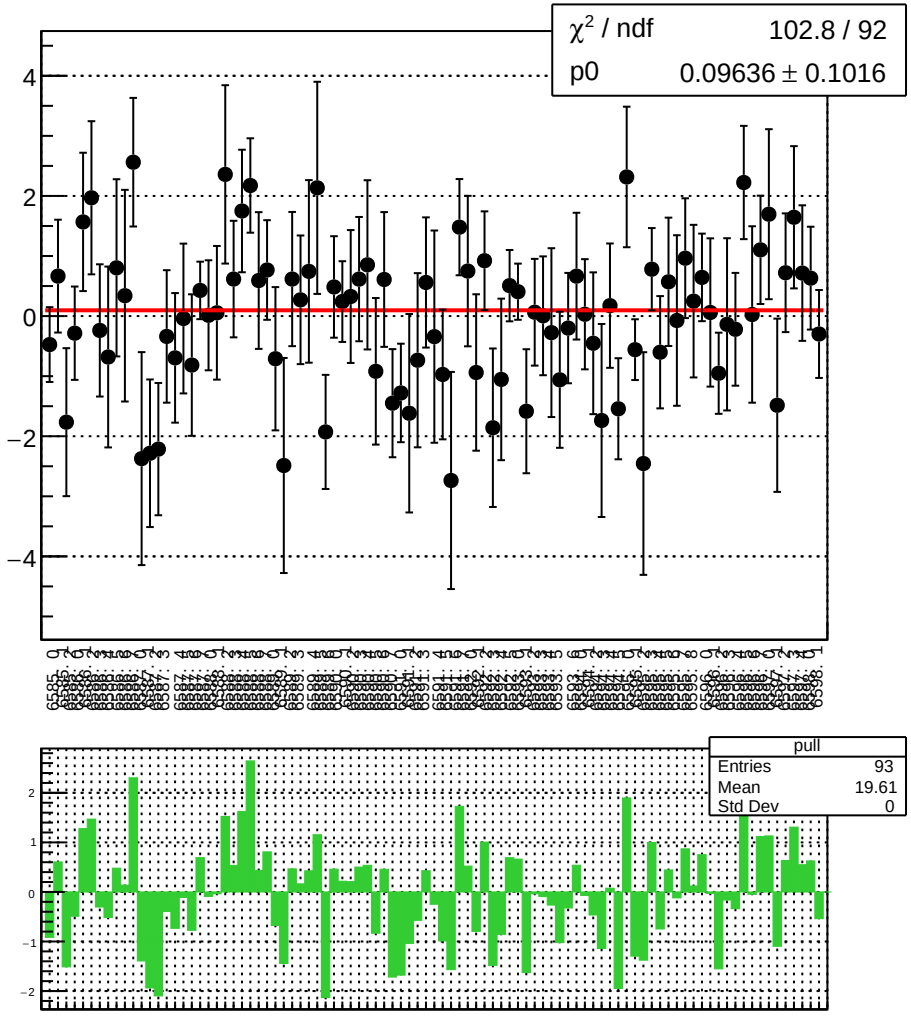

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.312e+06 / 92
p0 1.391e−11 ± 2.055e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

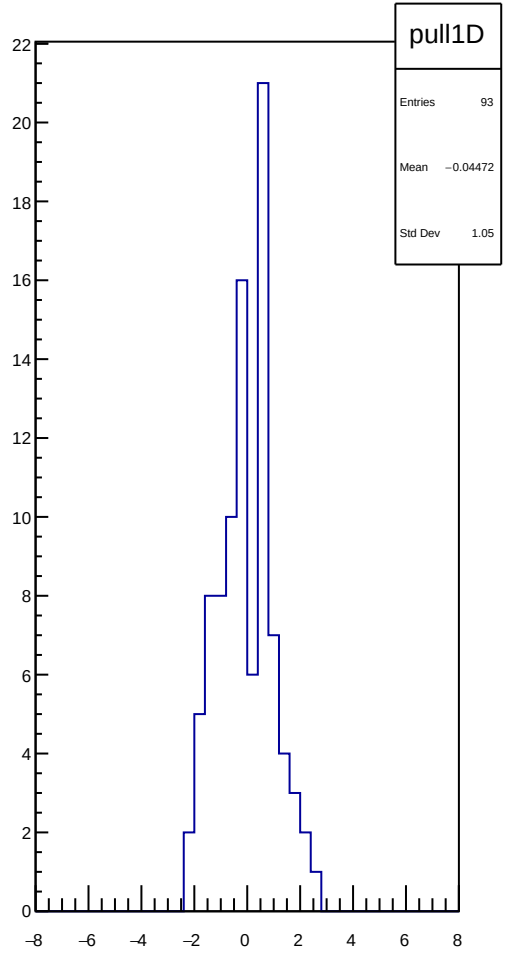

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 92
p0 0.09636 ± 0.1016
pull
Entries 93
Mean 19.61
Std Dev 0

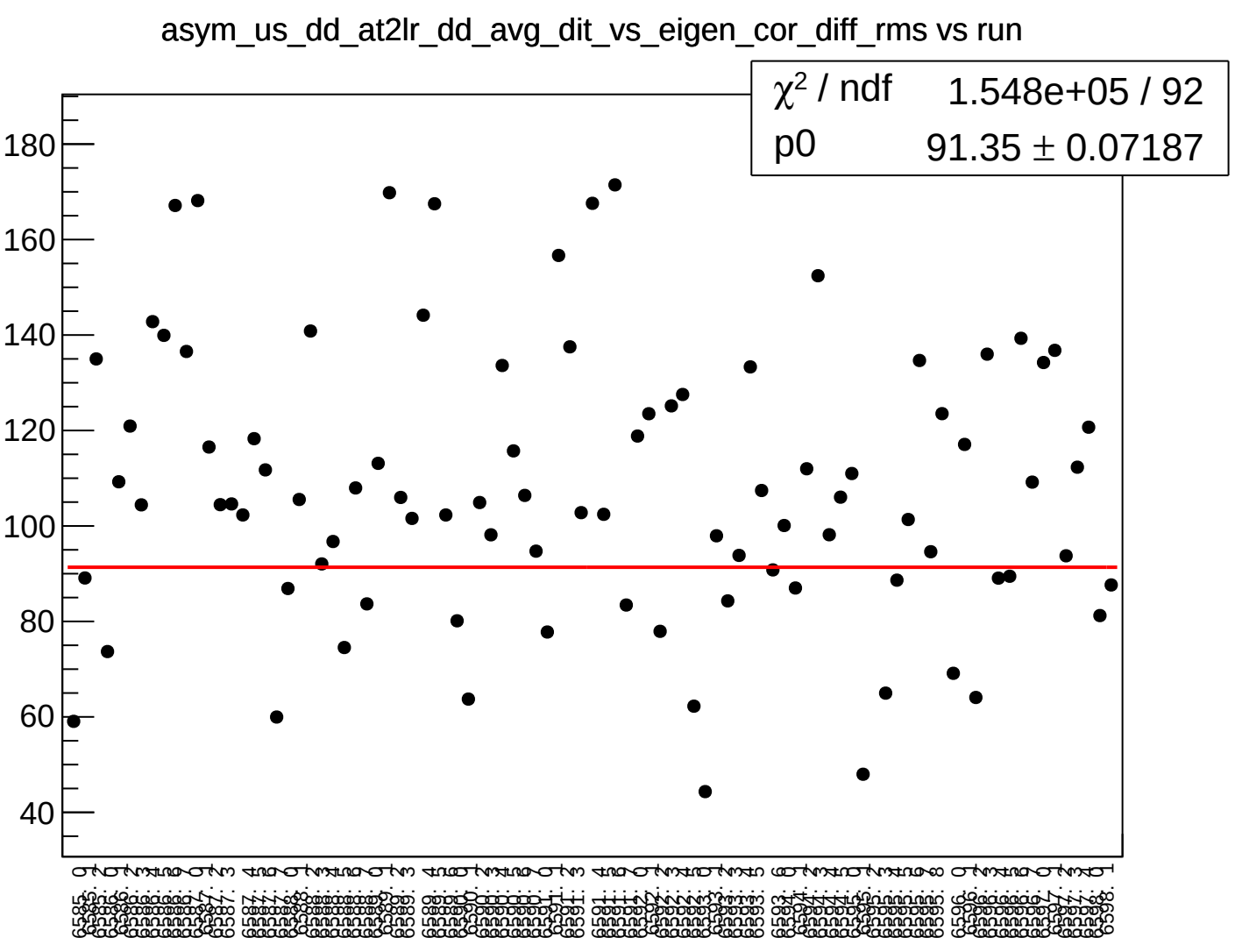

pull1D
Entries 93
Mean −0.04472
Std Dev 1.05

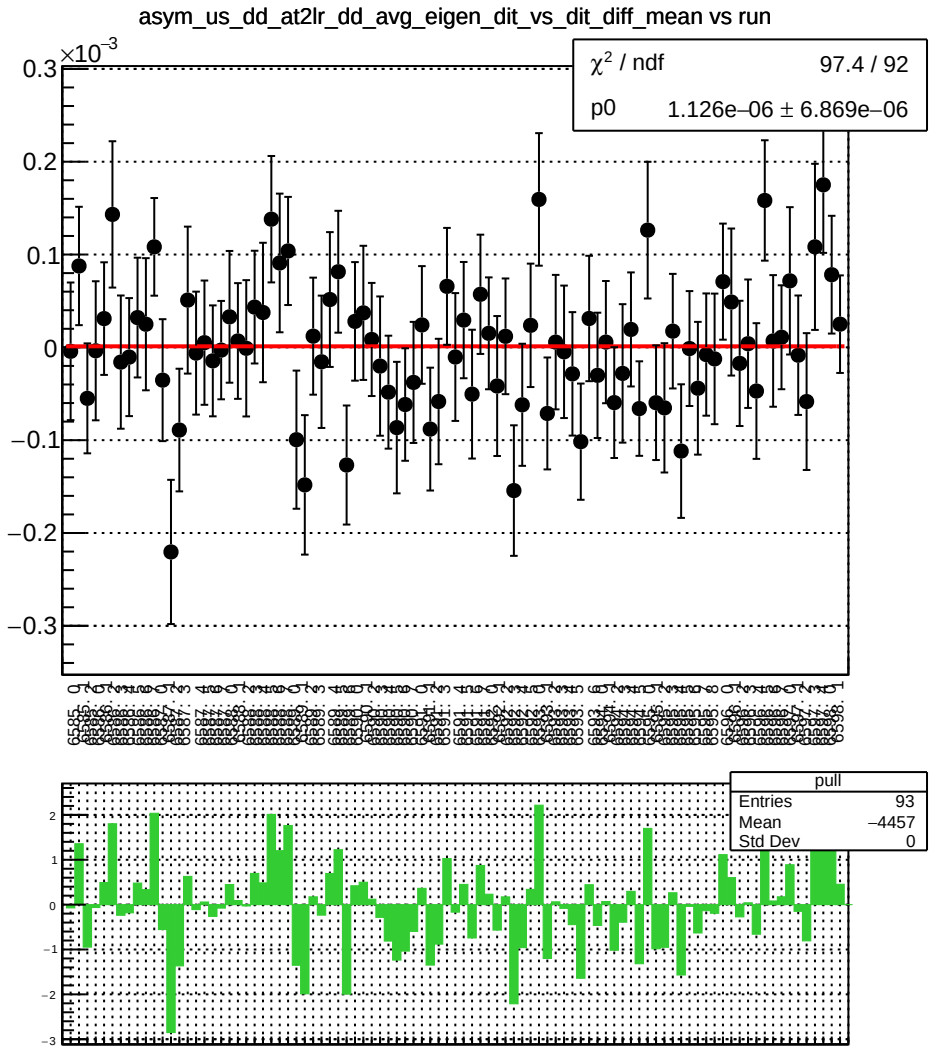

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.548e+05 / 92
p0 91.35 ± 0.07187
180
160
140
120
100
80
60
40

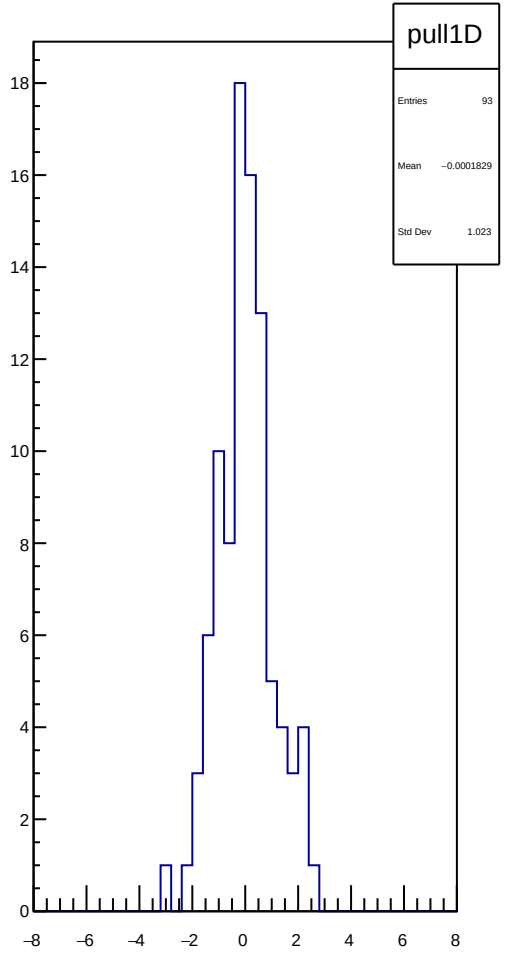
asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run

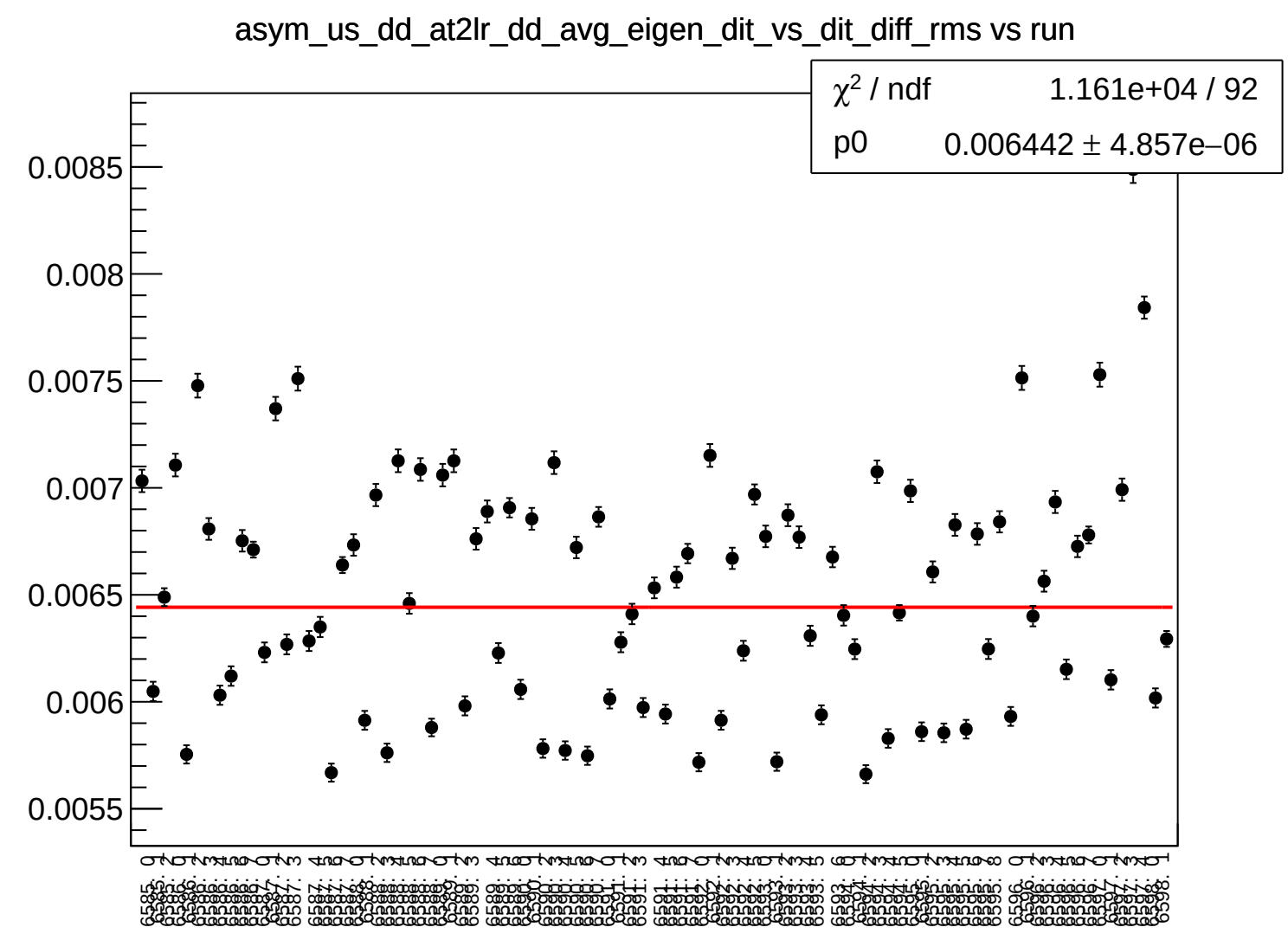




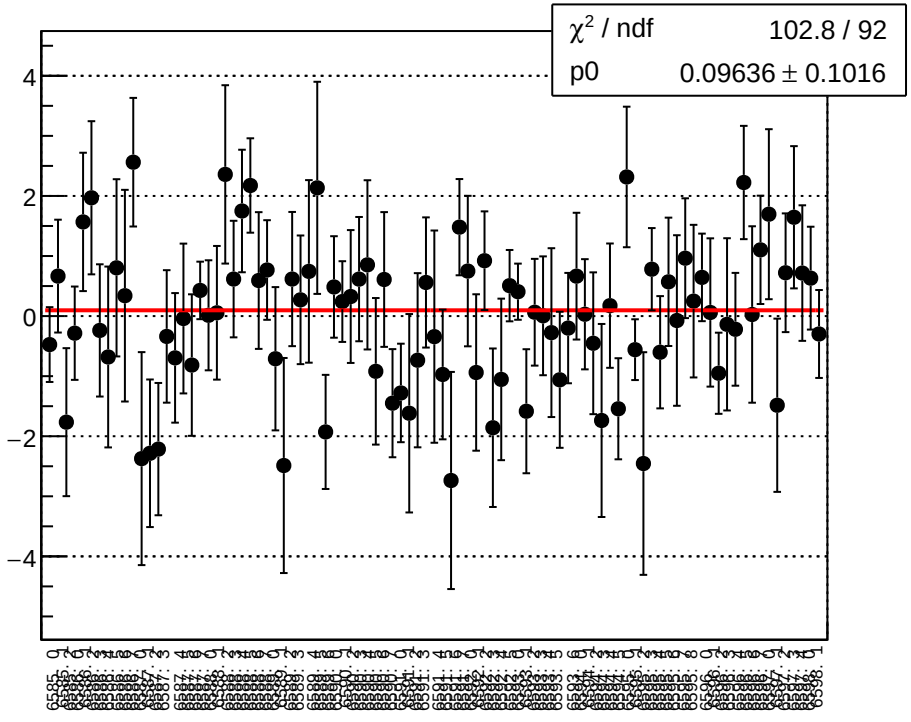

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.548e+05 / 92
p0 91.35 ± 0.07187
180
160
140
120
100
80
60
40

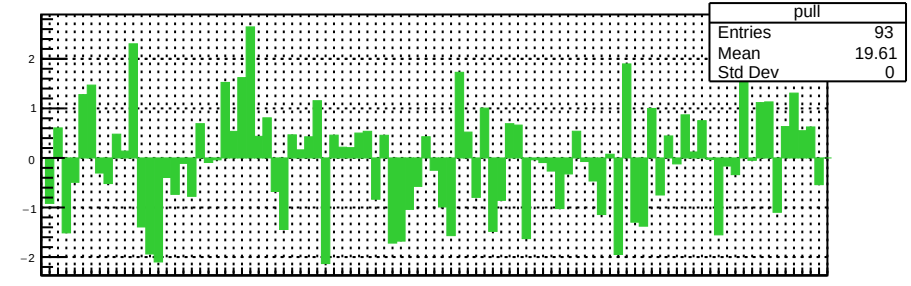

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.4 / 92
p0 1.126e−06 ± 6.869e−06
pull
Entries 93
Mean −4457
Std Dev 0

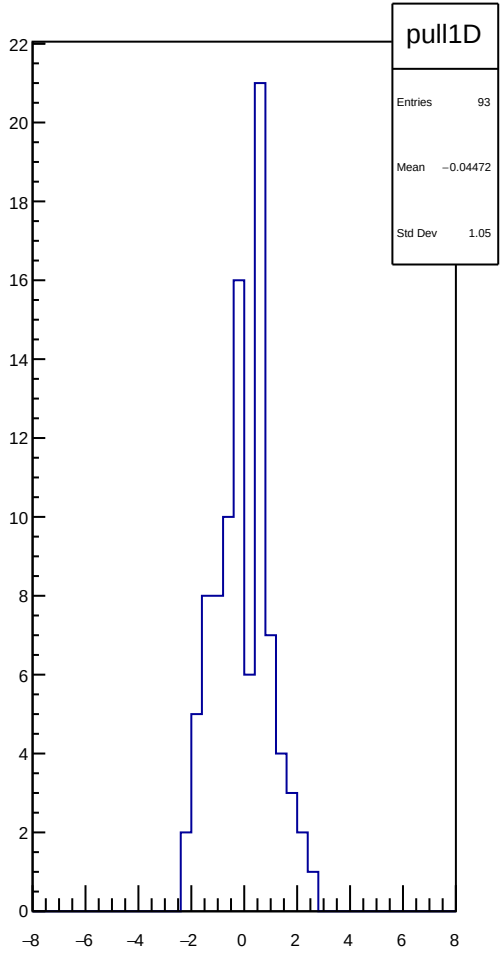

pull1D
Entries 93
Mean −0.0001829
Std Dev 1.023

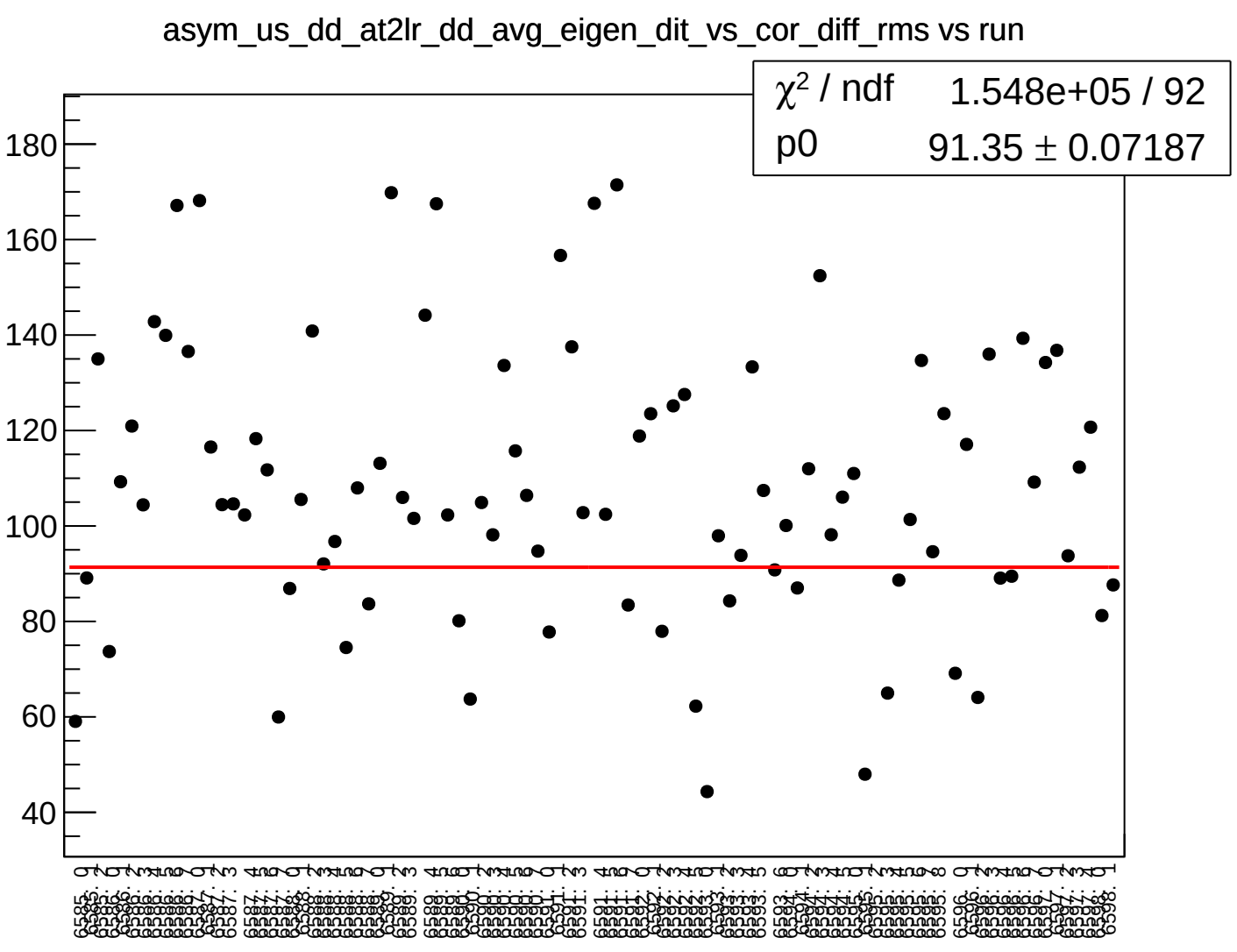

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.161e+04 / 92
p0 0.006442 ± 4.857e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

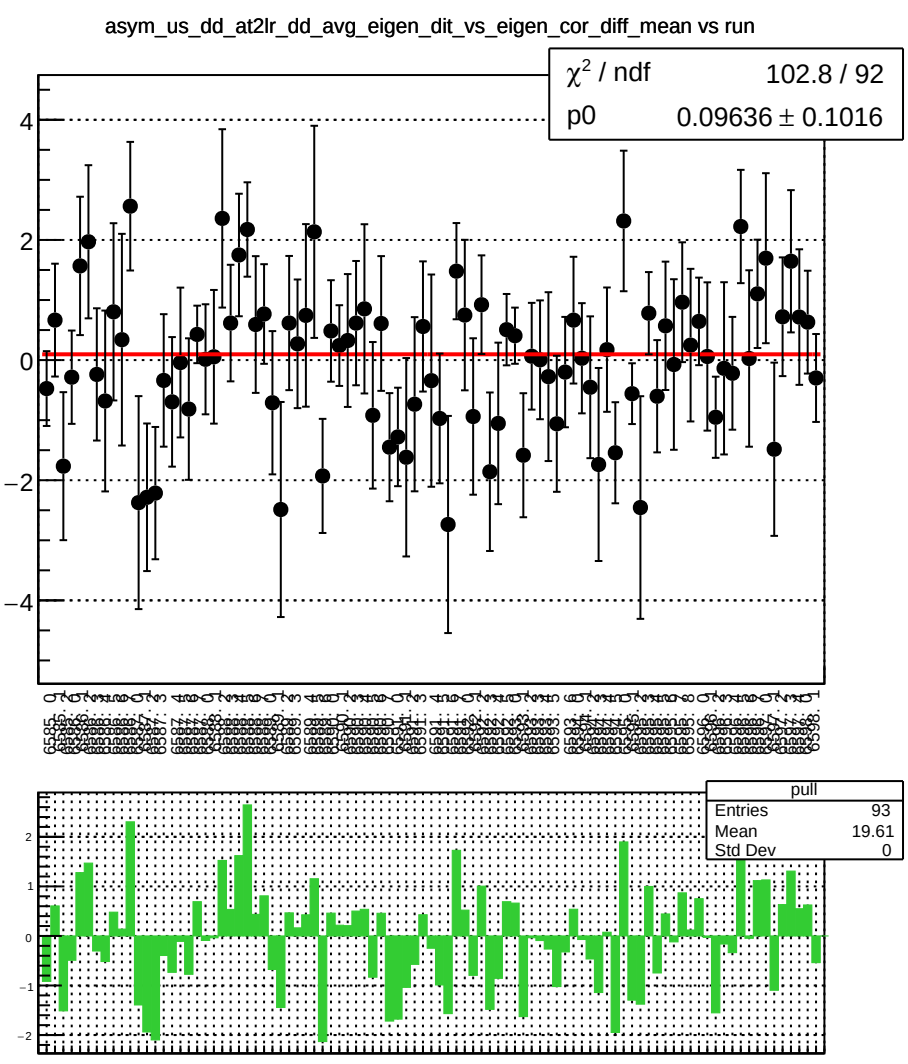
asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

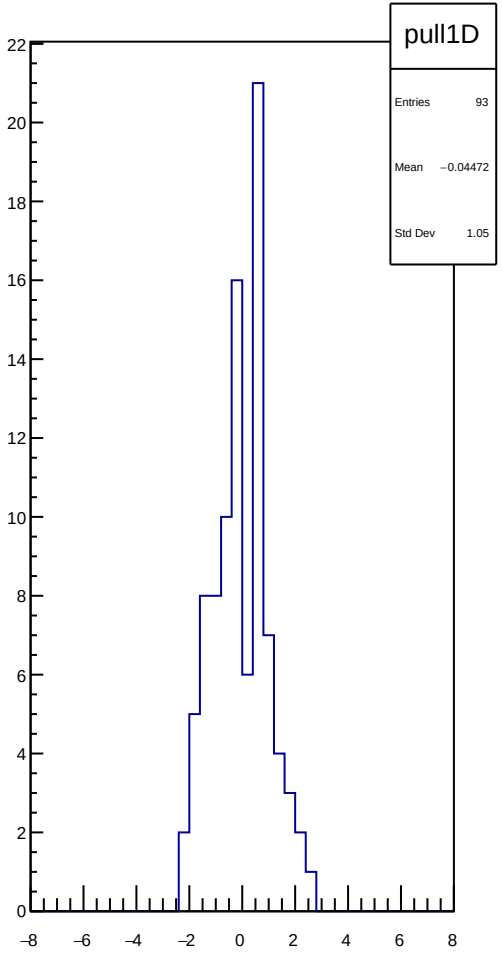


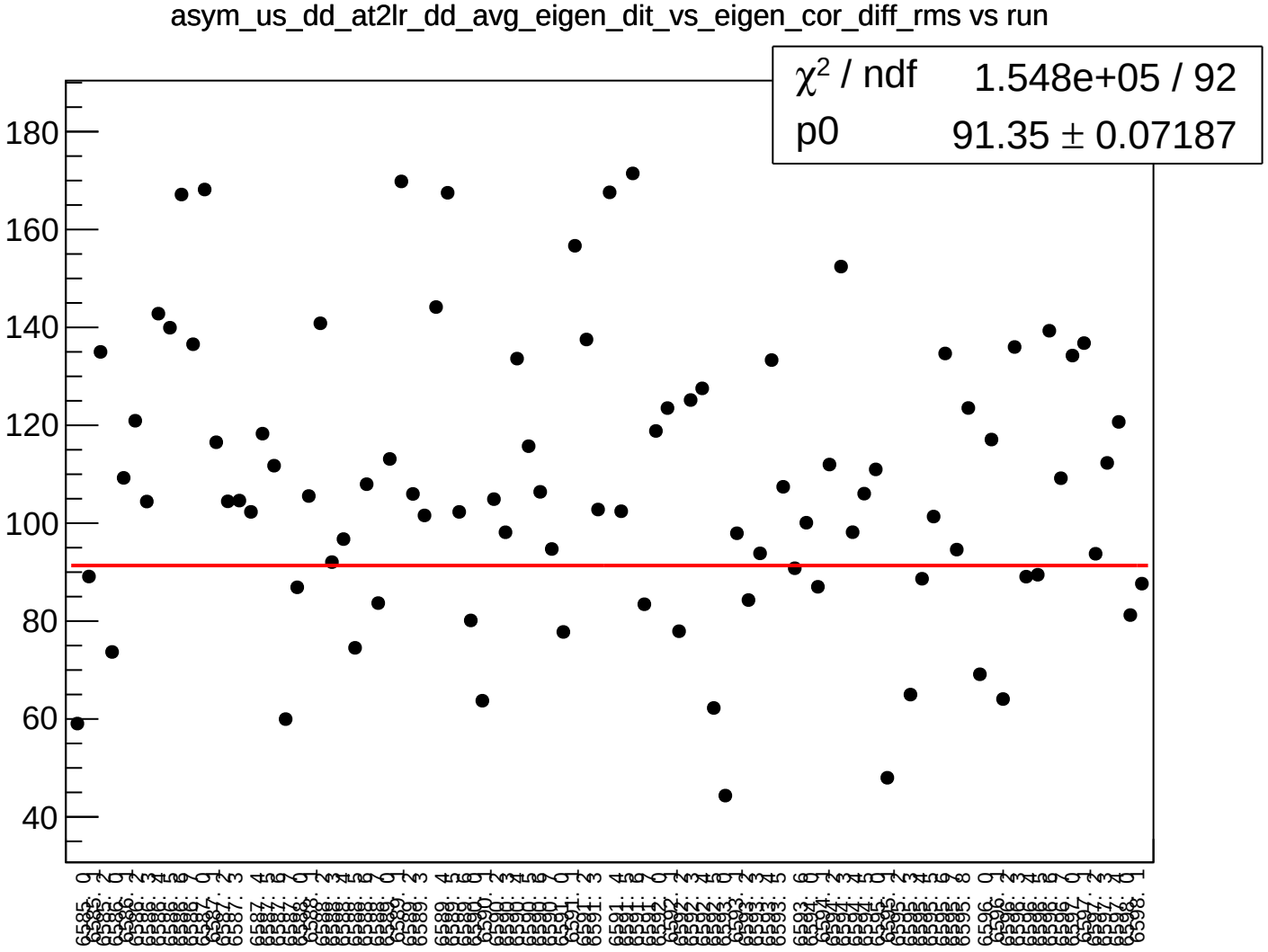


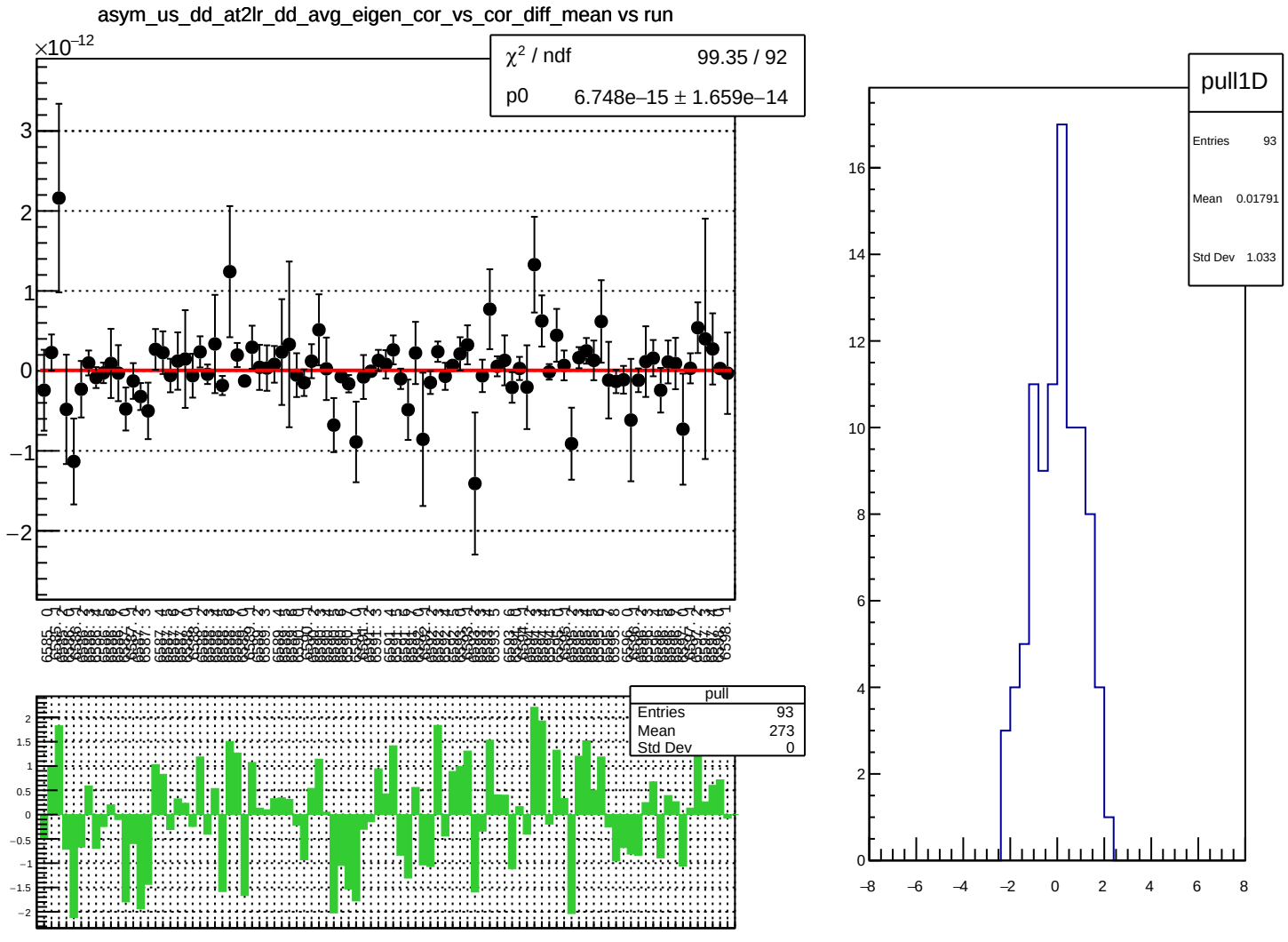


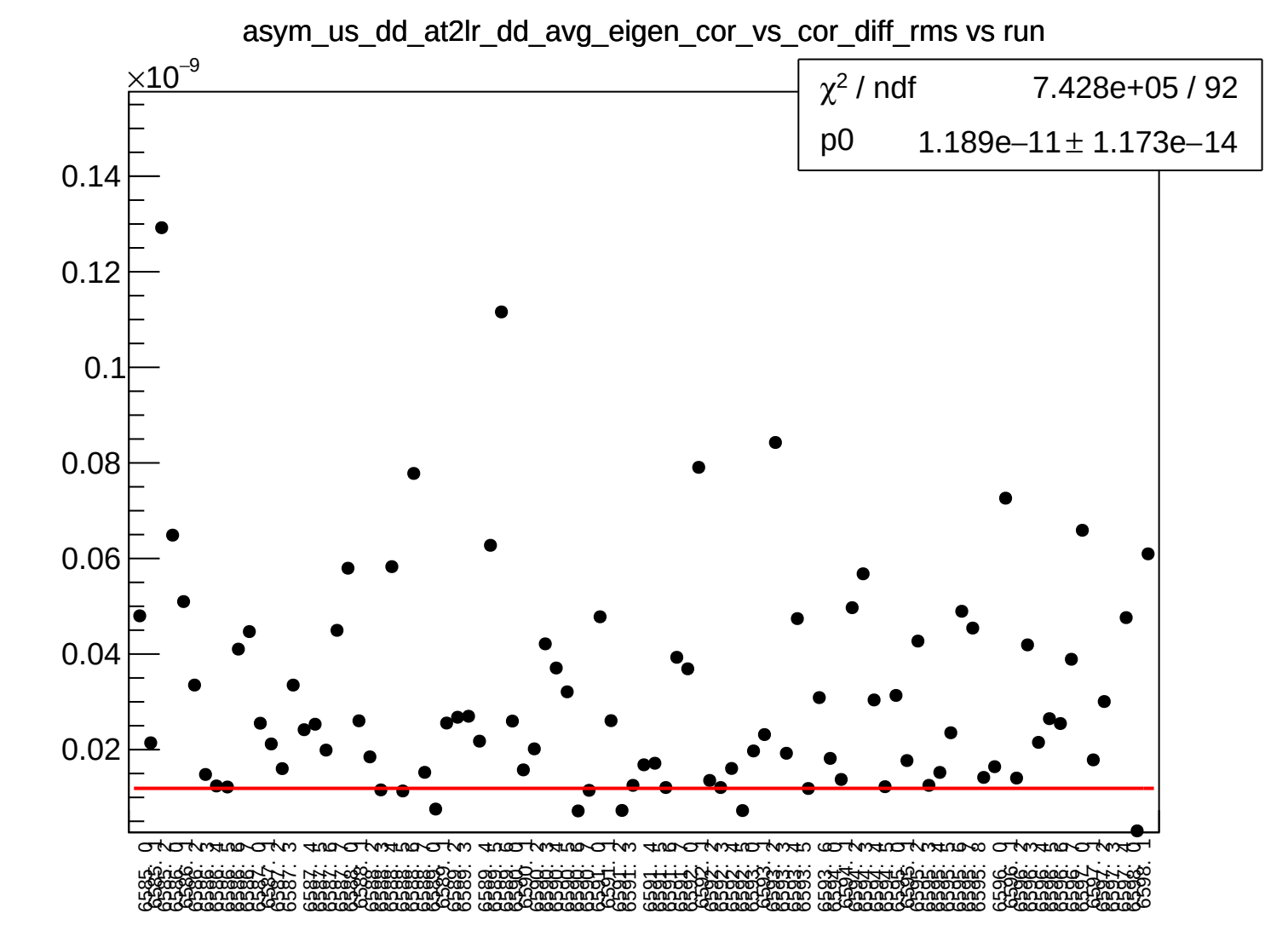

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.548e+05 / 92
p0 91.35 ± 0.07187
180
160
140
120
100
80
60
40

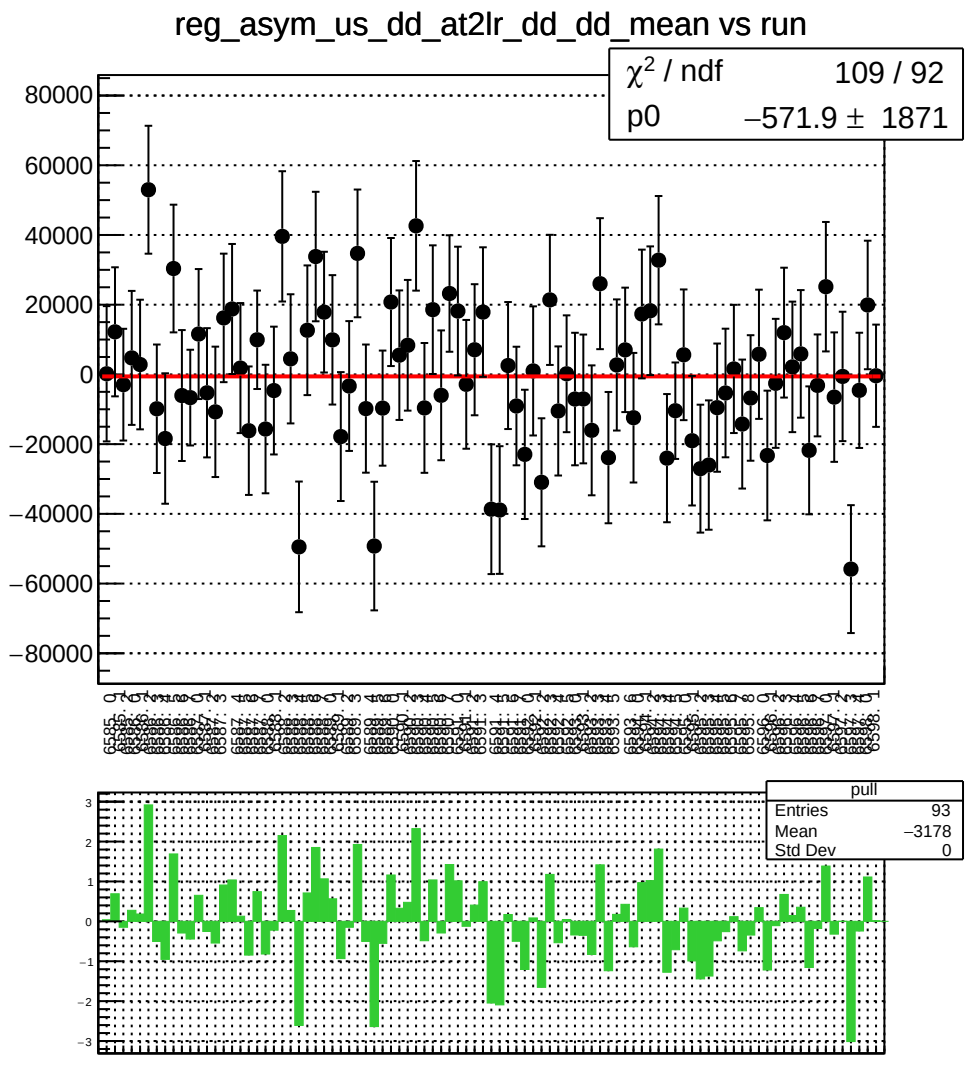

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 92
p0 0.09636 ± 0.1016
pull
Entries 93
Mean 19.61
Std Dev 0

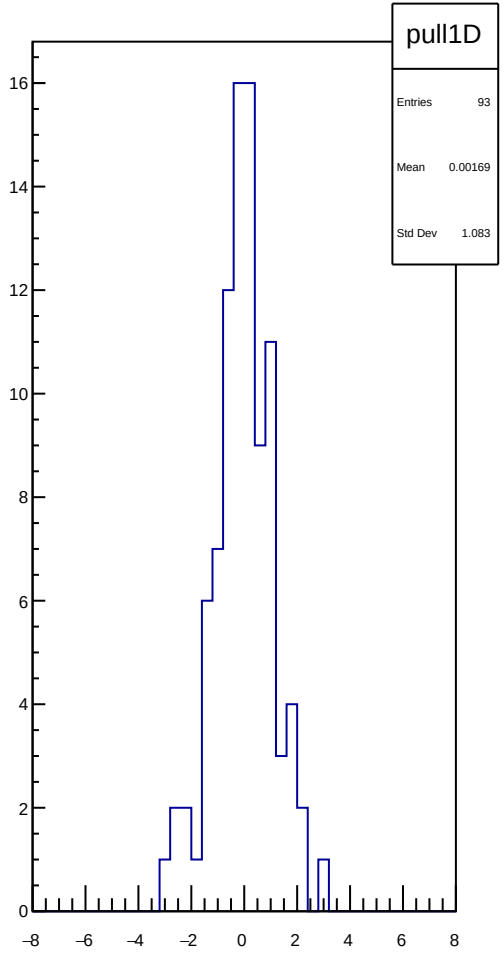

pull1D
Entries 93
Mean −0.04472
Std Dev 1.05

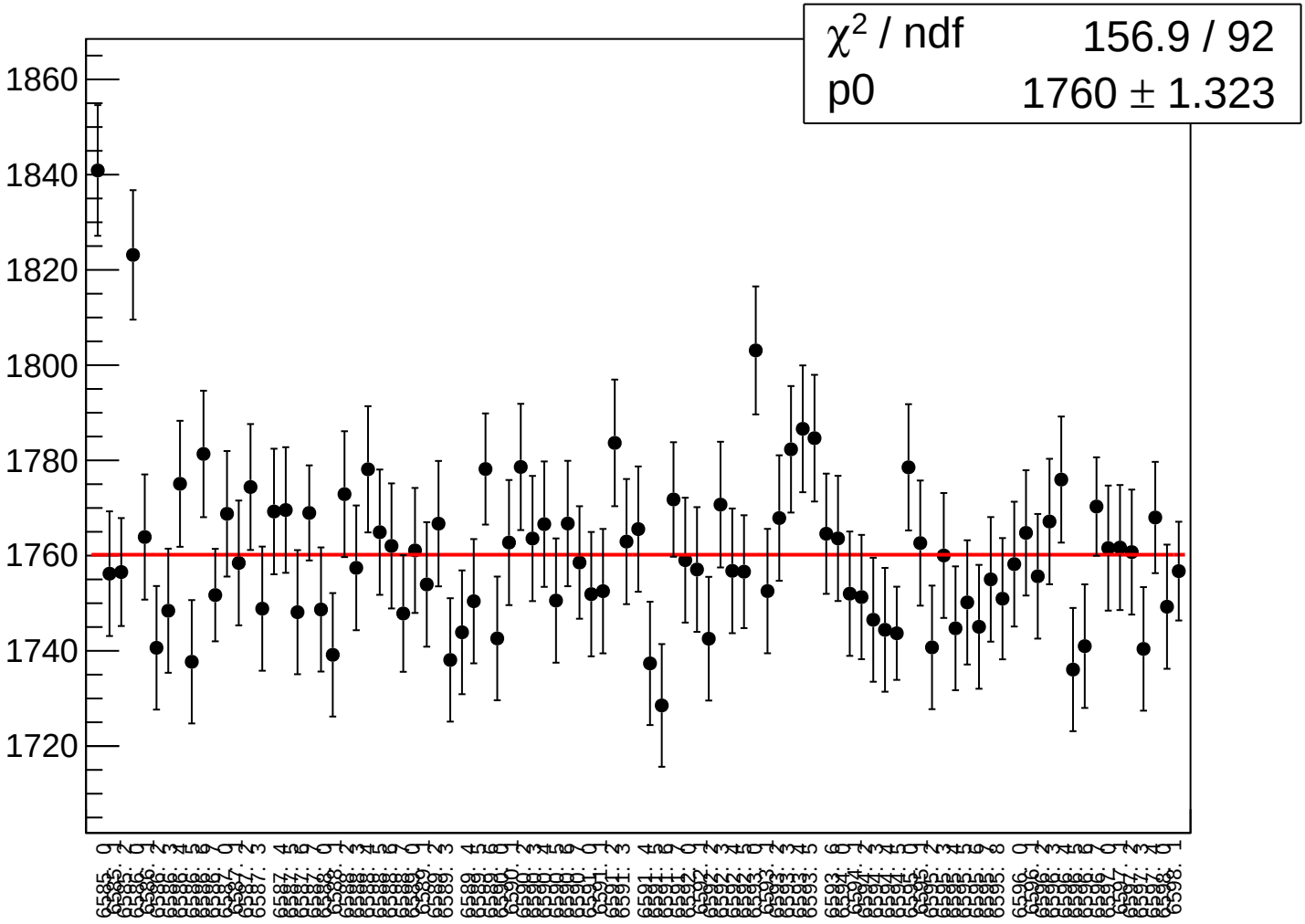

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.548e+05 / 92
p0 91.35 ± 0.07187
180
160
140
120
100
80
60
40

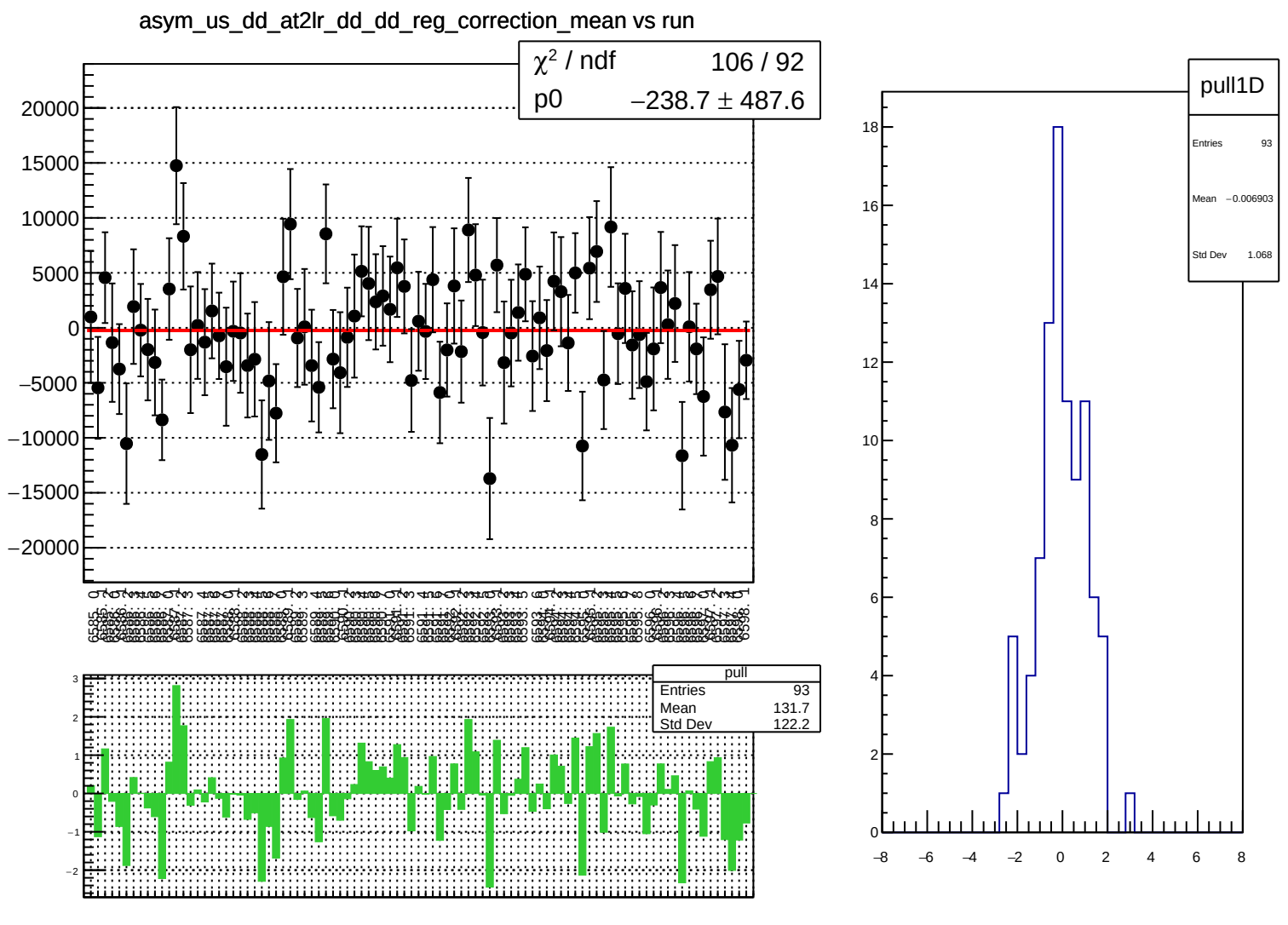

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.35 / 92
p0 6.748e−15 ± 1.659e−14
3
2
1
0
−1
−2
pull
Entries 93
Mean 273
Std Dev 0
pull1D
Entries 93
Mean 0.01791
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

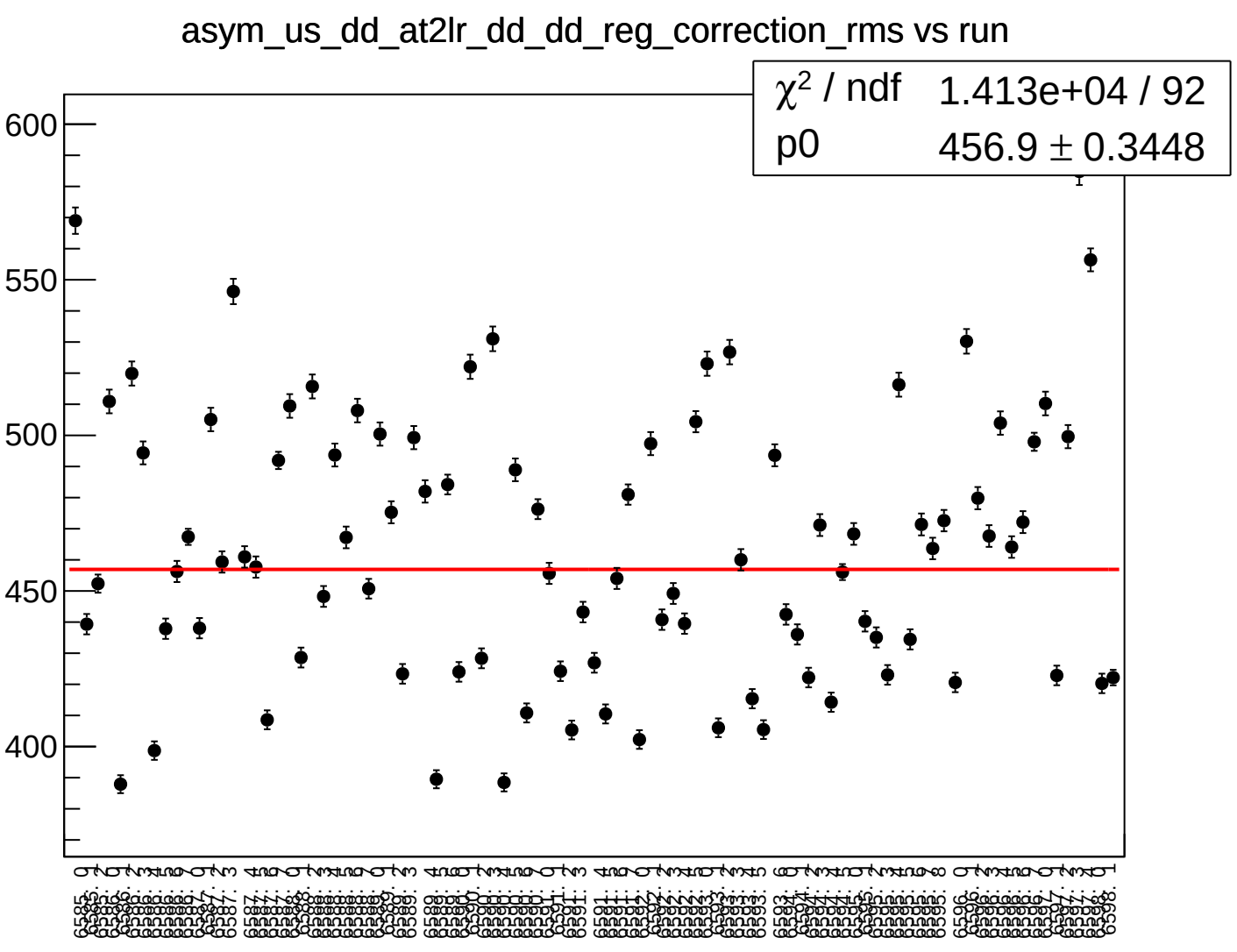

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.428e+05 / 92
p0 1.189e−11 ± 1.173e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

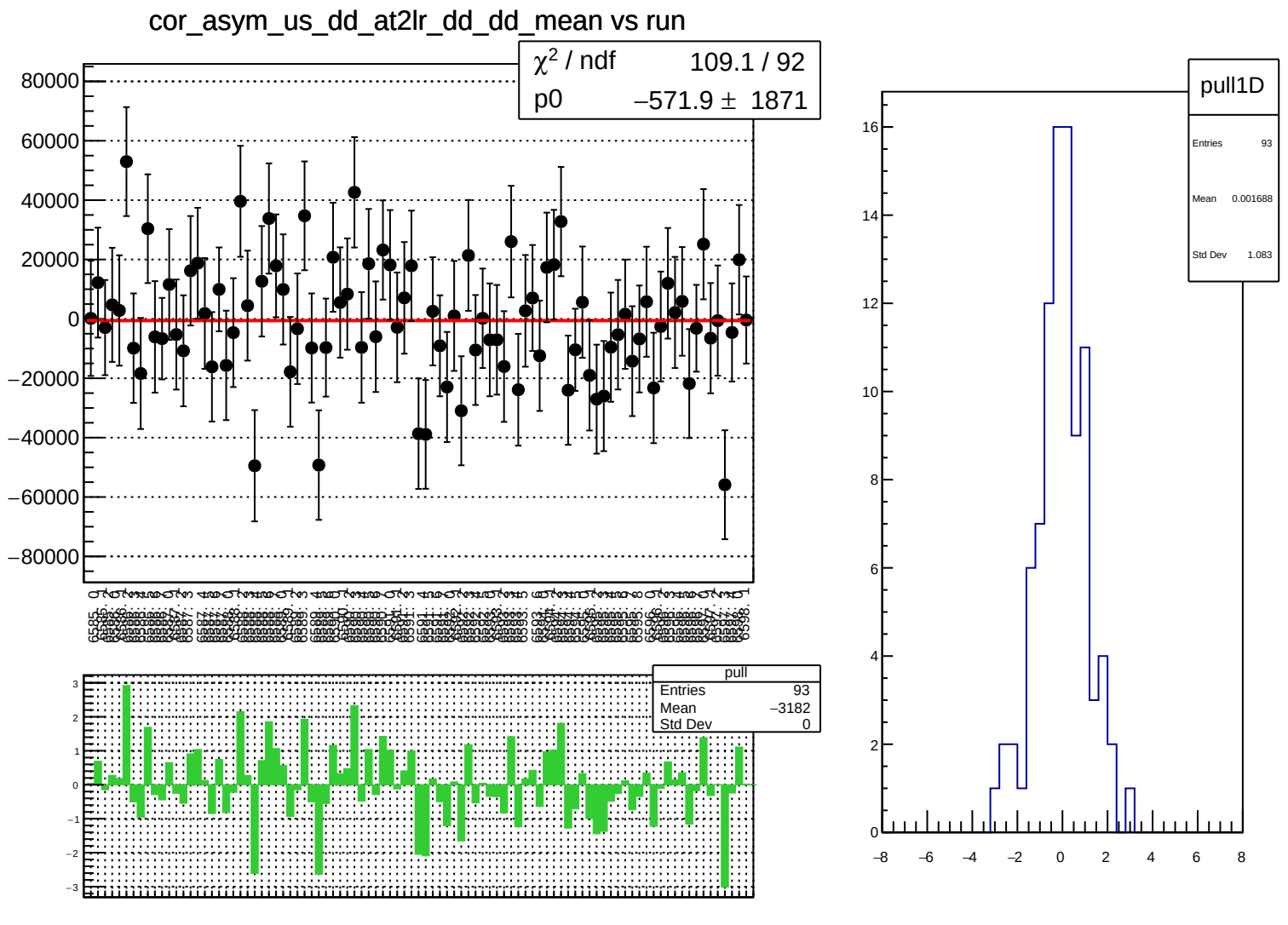

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 109 / 92
p0 −571.9 ± 1871
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −3178
Std Dev 0
3
2
1
0
−1
−2
−3

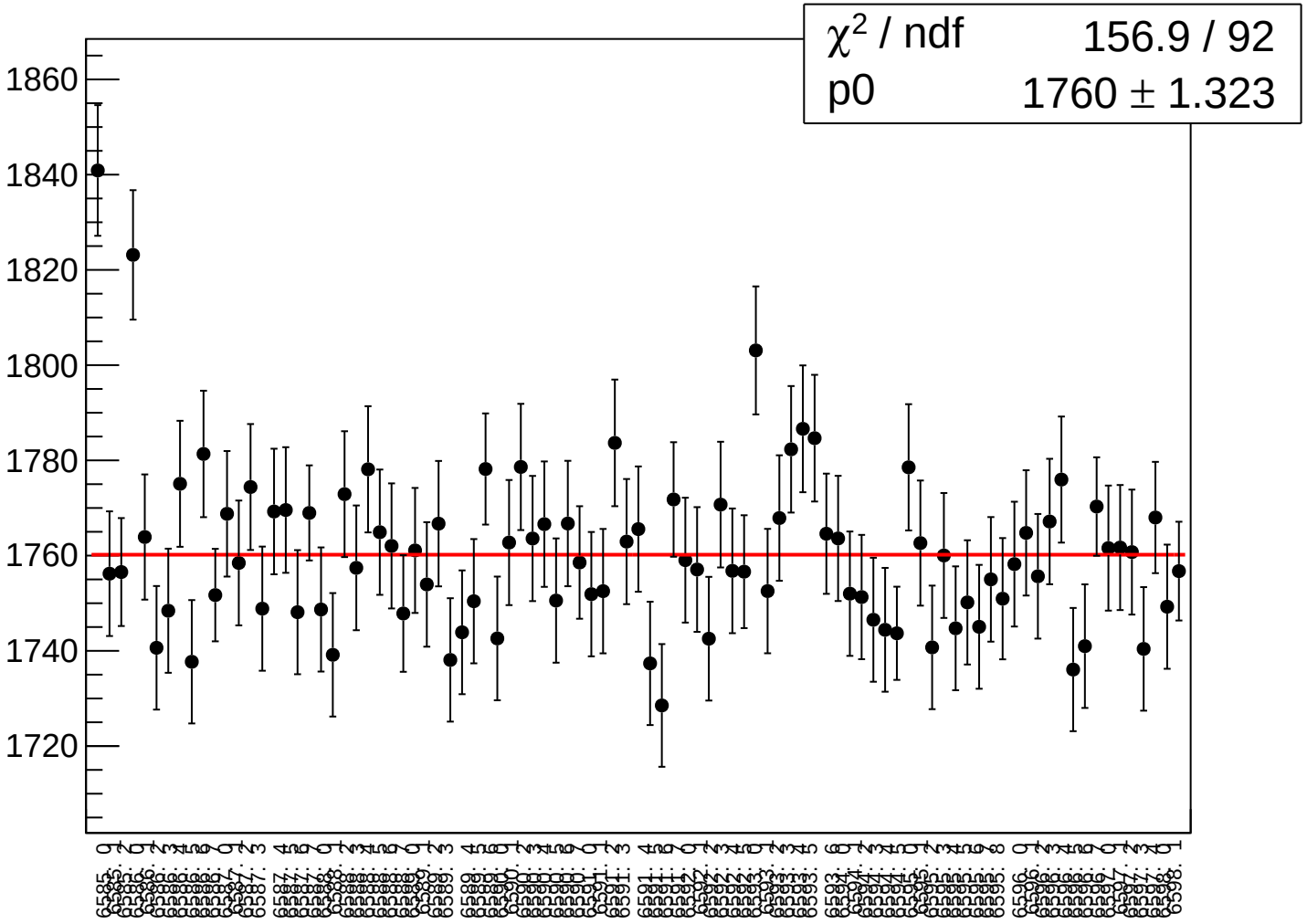

pull1D
Entries 93
Mean 0.00169
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

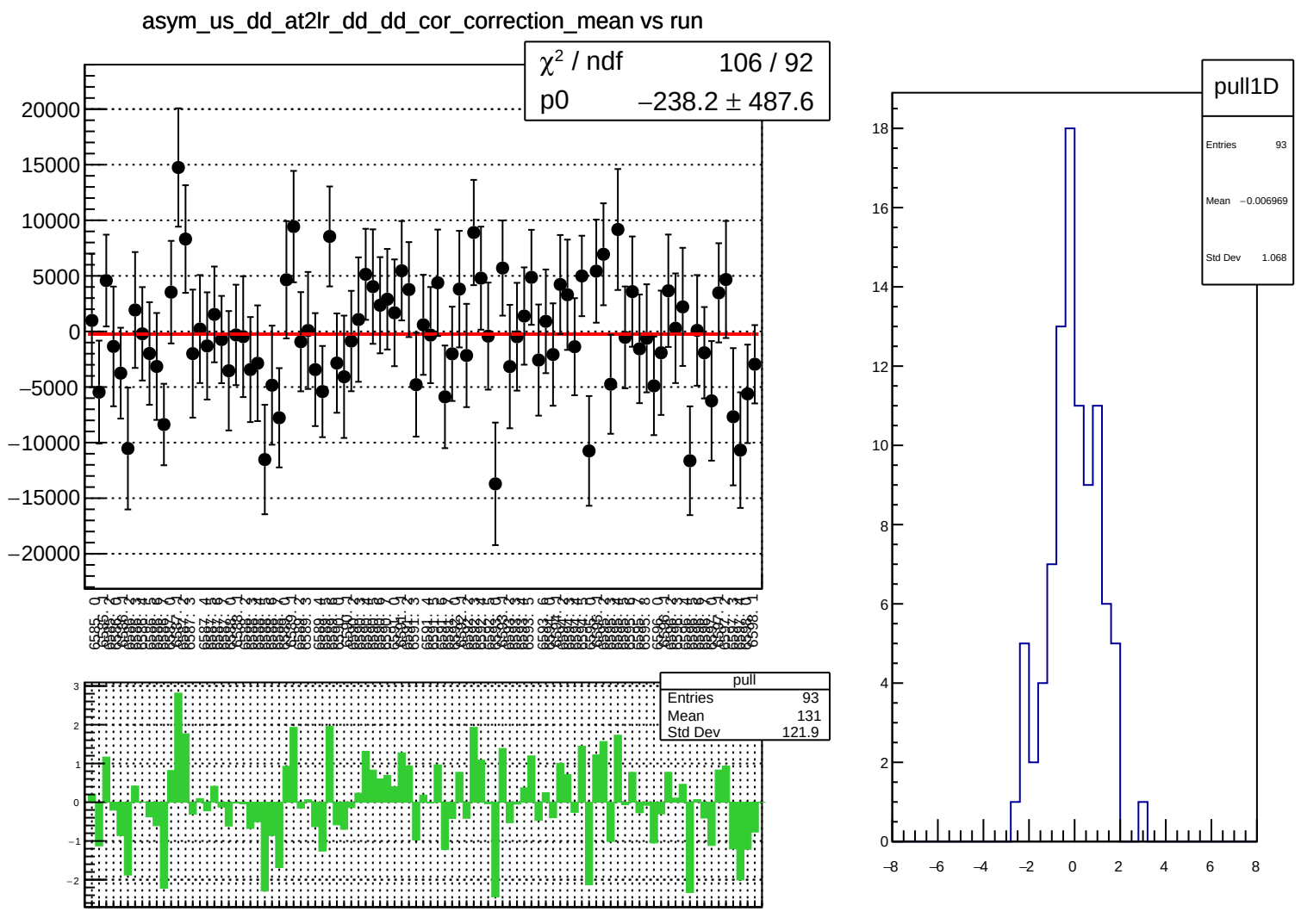

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 156.9 / 92
p0 1760 ± 1.323
1860
1840
1820
1800
1780
1760
1740
1720

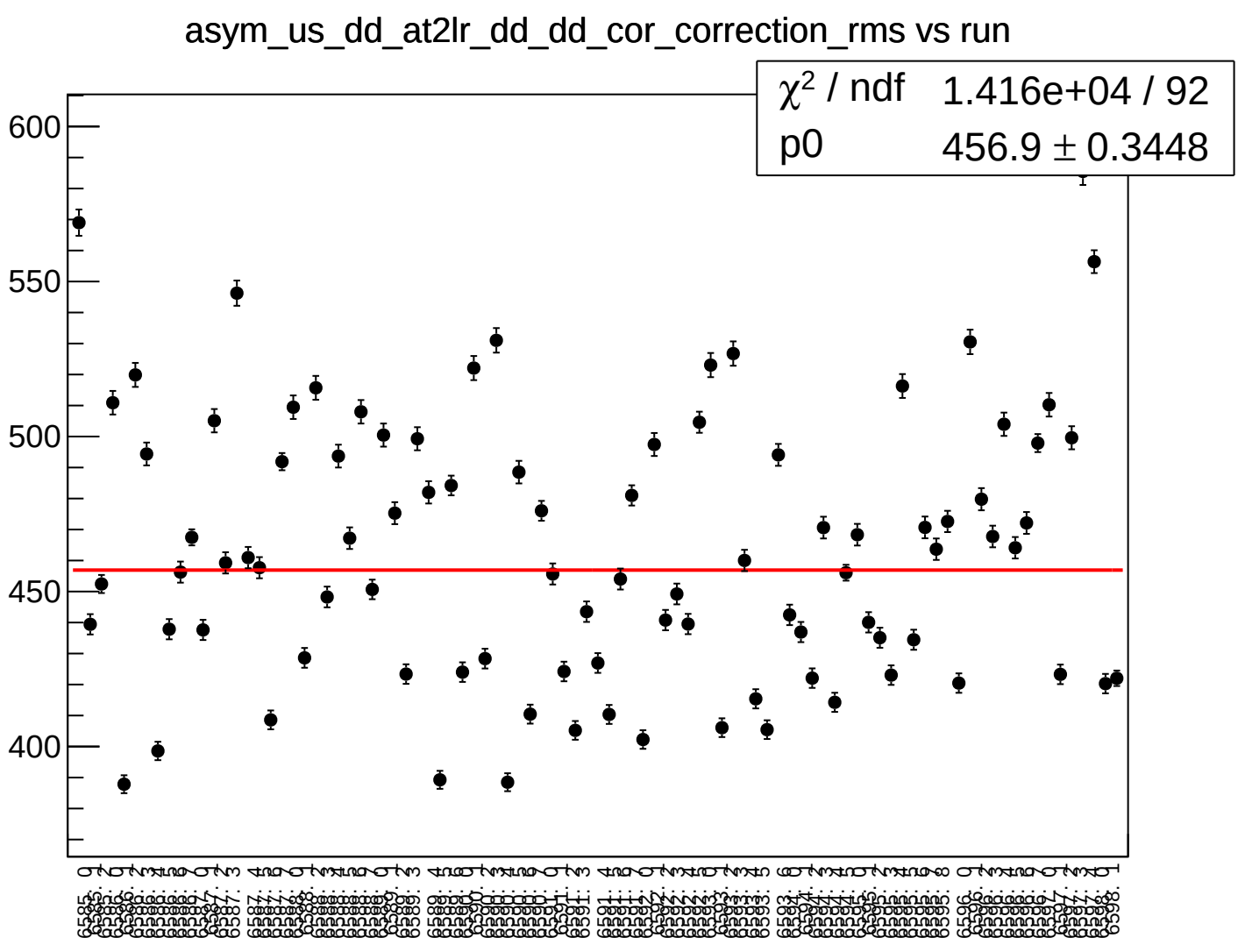

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 106 / 92
p0 −238.7 ± 487.6
pull
Entries 93
Mean 131.7
Std Dev 122.2
pull1D
Entries 93
Mean −0.006903
Std Dev 1.068

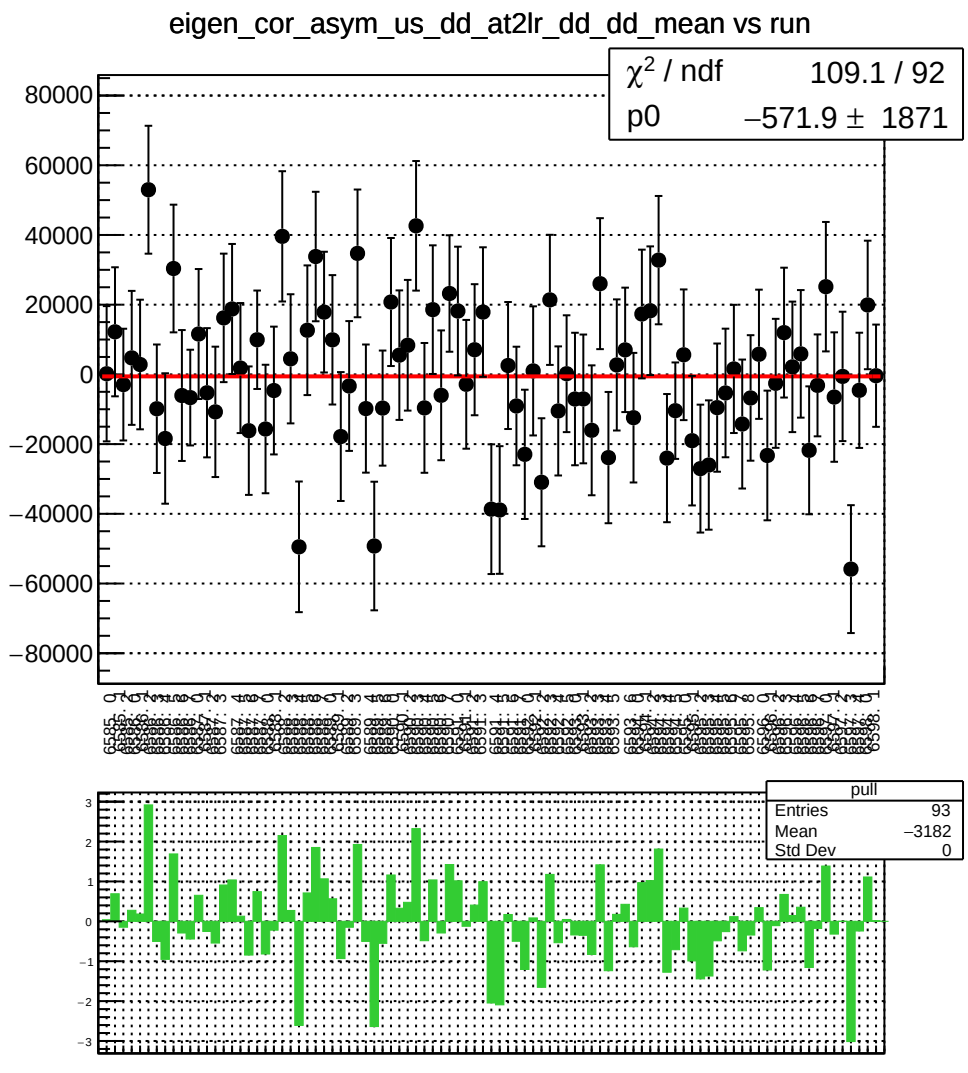

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.413e+04 / 92
p0 456.9 ± 0.3448
600
550
500
450
400

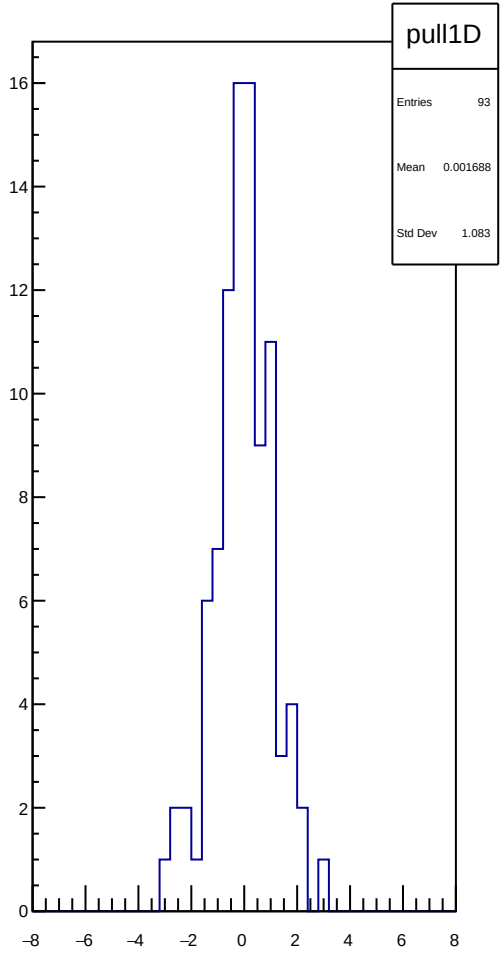

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 109.1 / 92
p0 −571.9 ± 1871
pull
Entries 93
Mean −3182
Std Dev 0
pull1D
Entries 93
Mean 0.001688
Std Dev 1.083

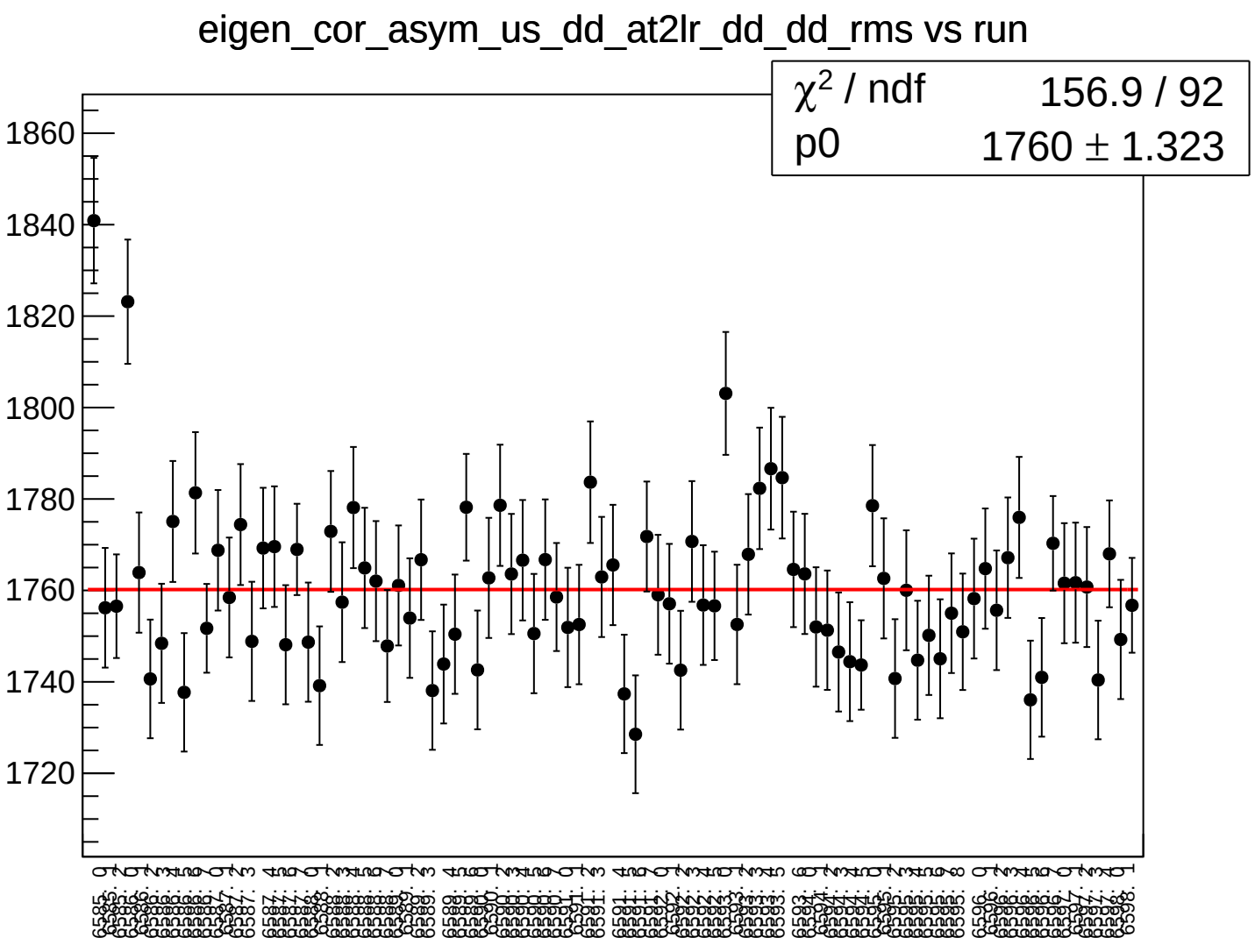

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 156.9 / 92
p0 1760 ± 1.323
1860
1840
1820
1800
1780
1760
1740
1720

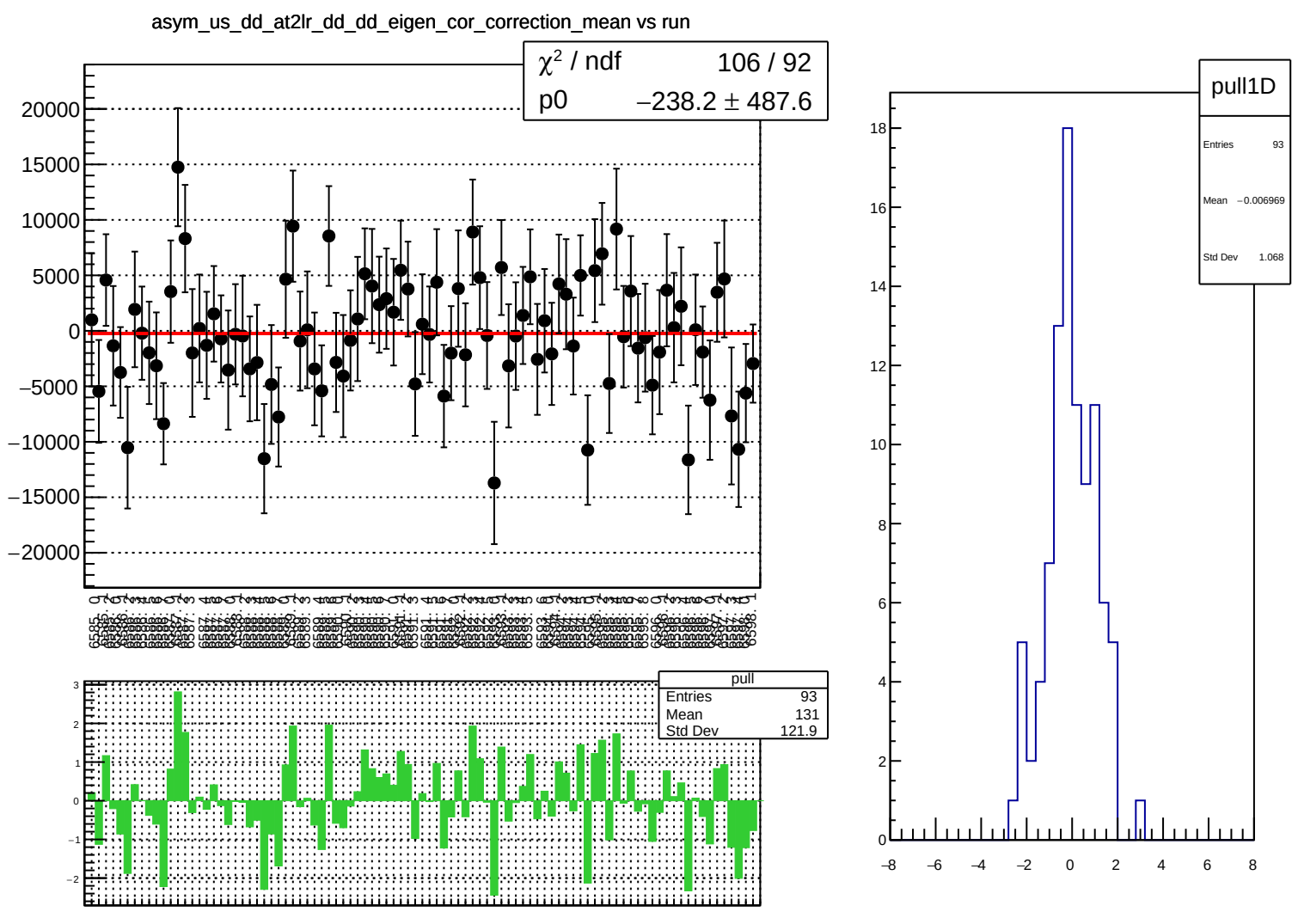

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 106 / 92
p0 −238.2 ± 487.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 131
Std Dev 121.9
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006969
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

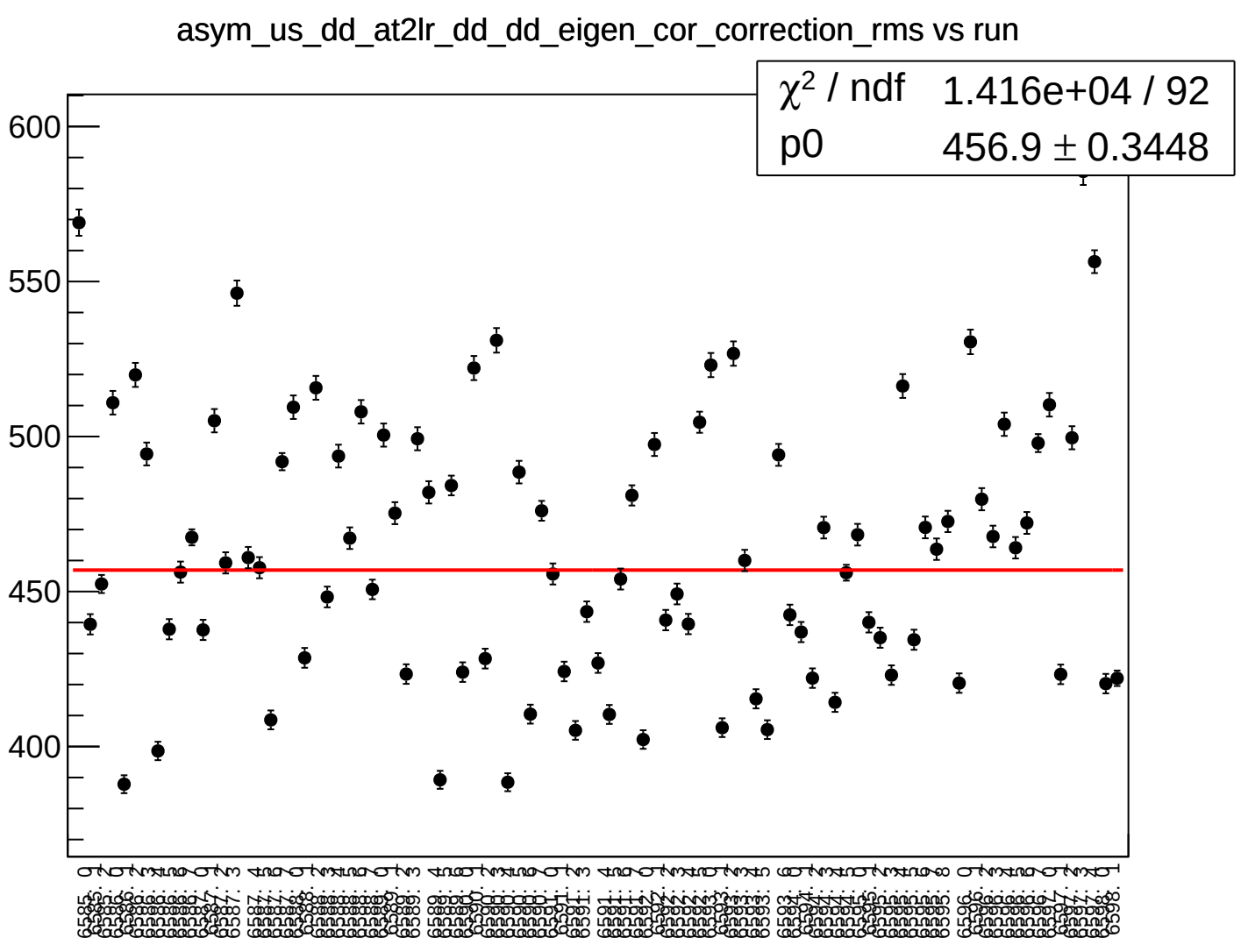

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.416e+04 / 92
p0 456.9 ± 0.3448
600
550
500
450
400

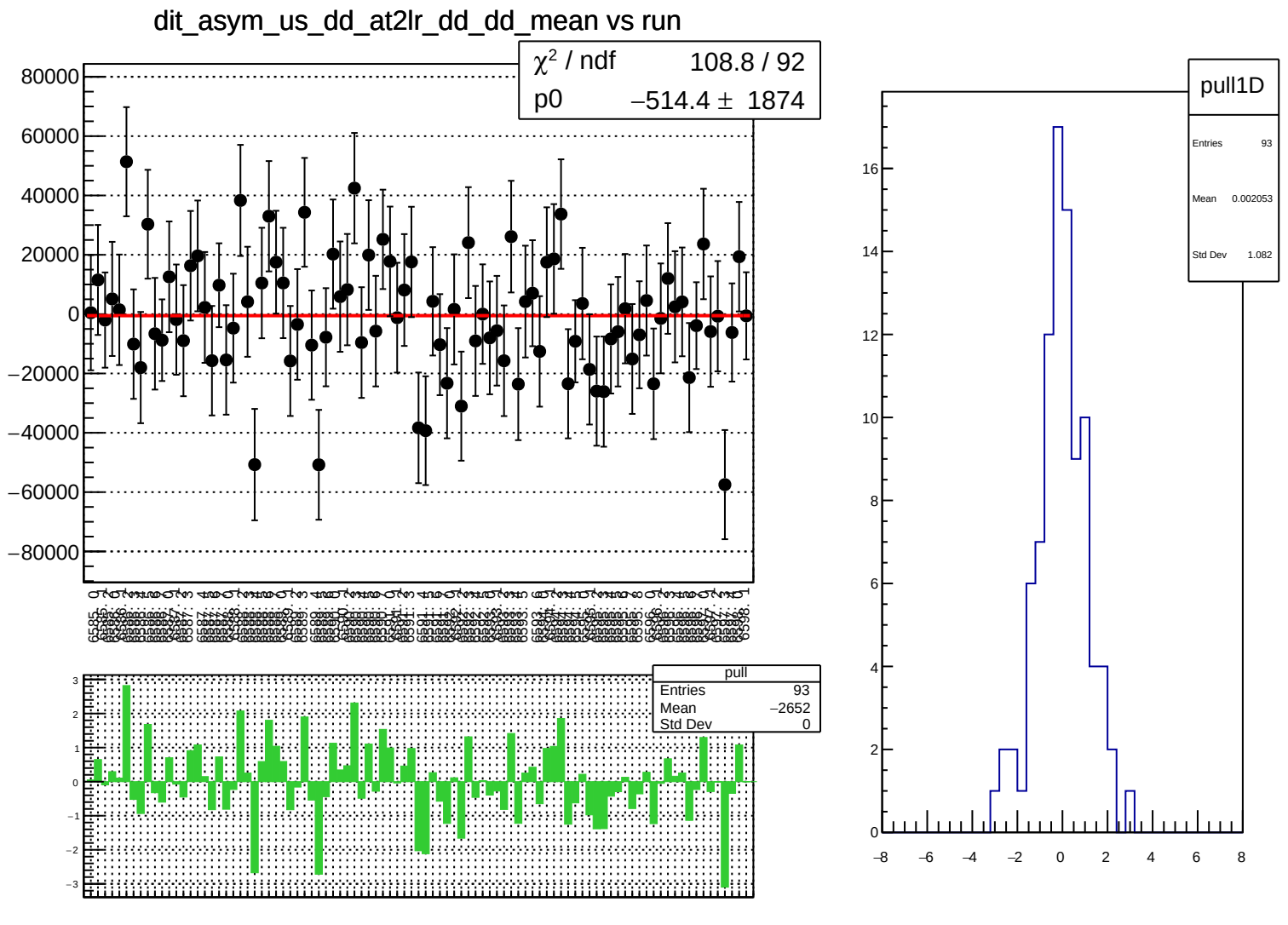

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 109.1 / 92
p0 −571.9 ± 1871
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −3182
Std Dev 0
3
2
1
0
−1
−2
−3

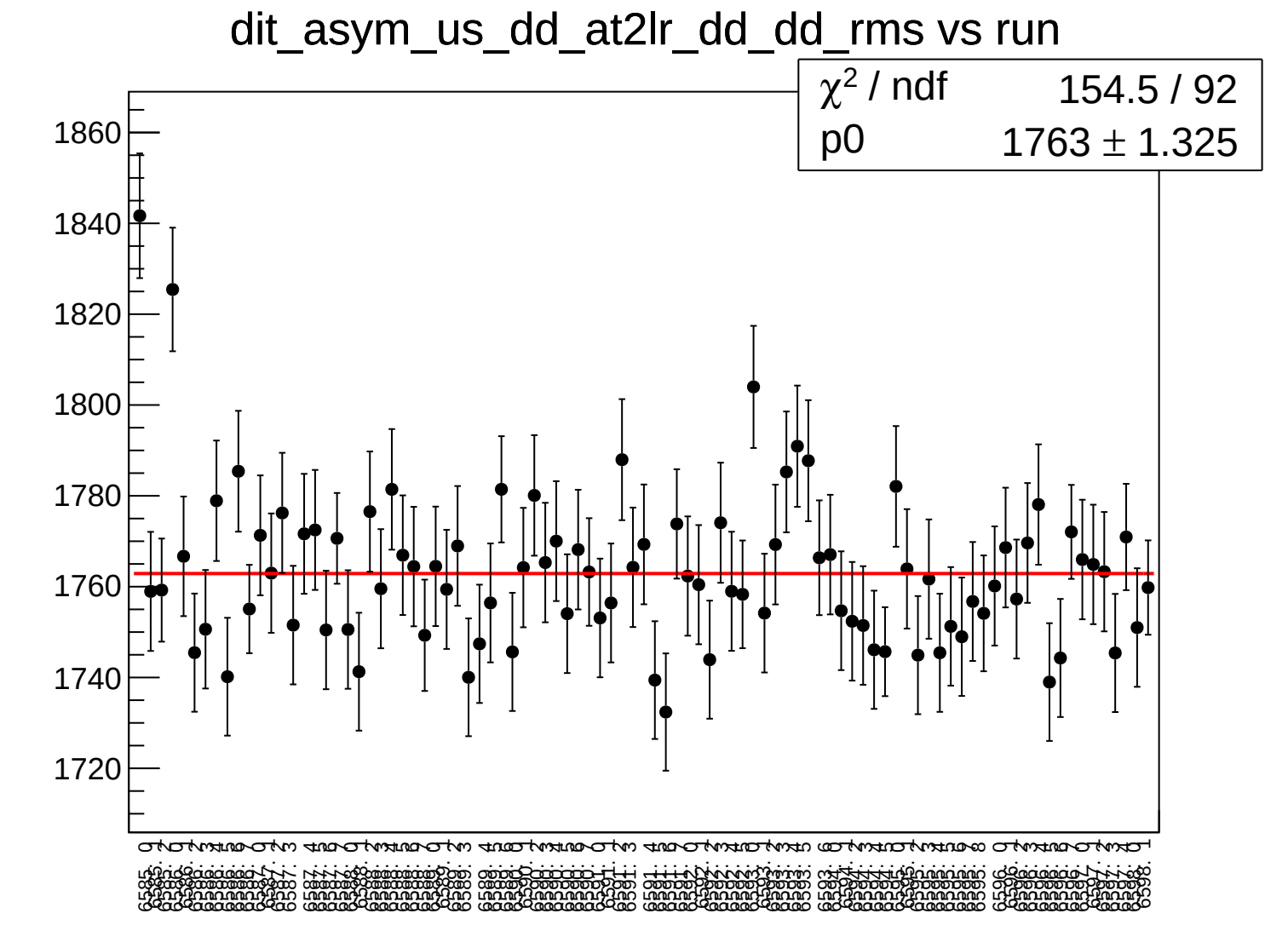

pull1D
Entries 93
Mean 0.001688
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

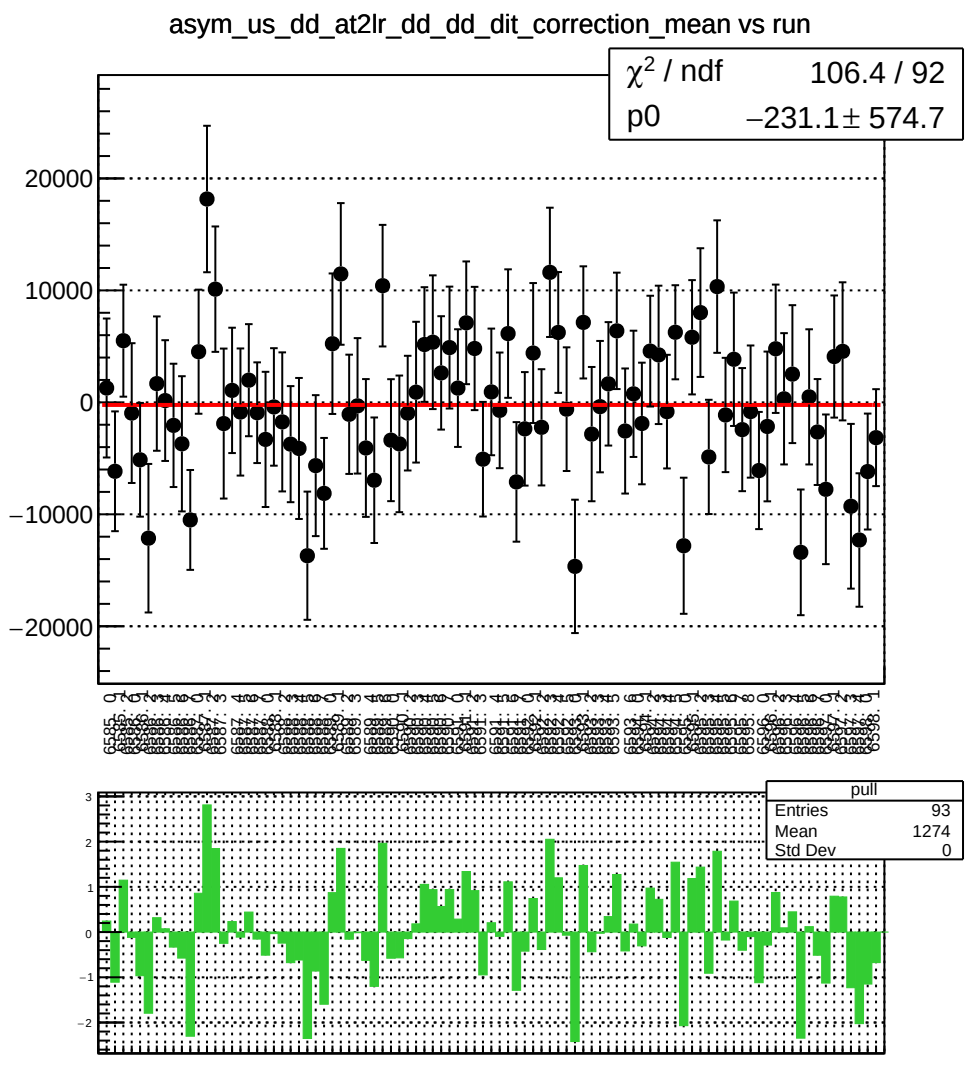

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 156.9 / 92
p0 1760 ± 1.323
1860
1840
1820
1800
1780
1760
1740
1720

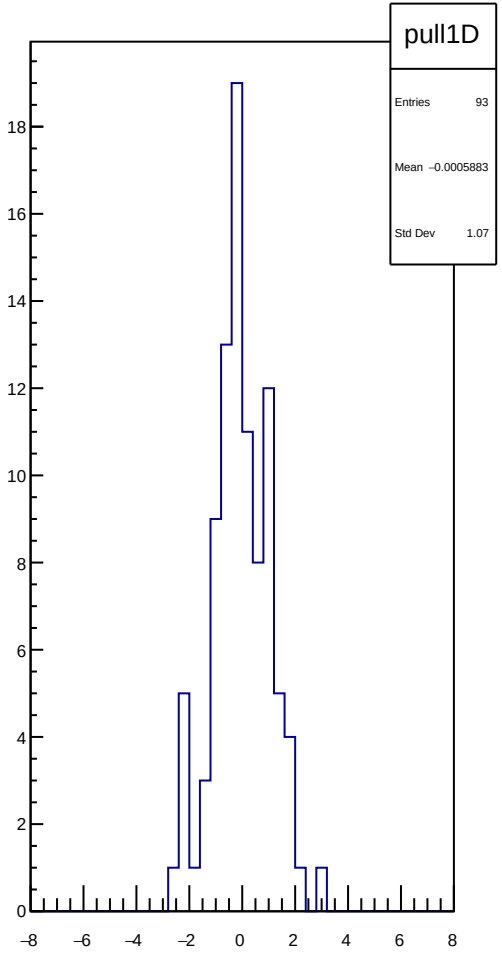

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 106 / 92
p0 −238.2 ± 487.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 131
Std Dev 121.9
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006969
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

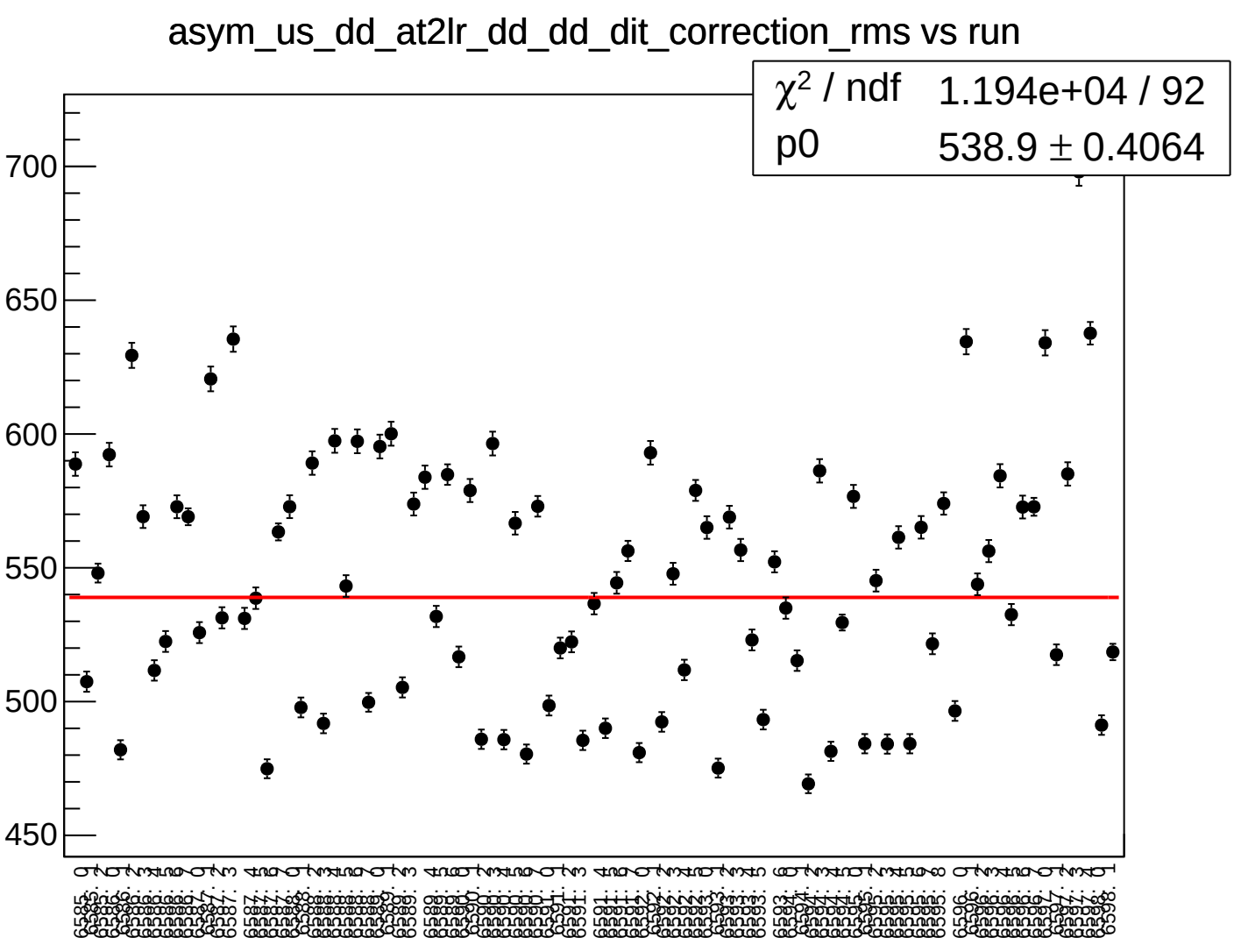

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.416e+04 / 92
p0 456.9 ± 0.3448
600
550
500
450
400

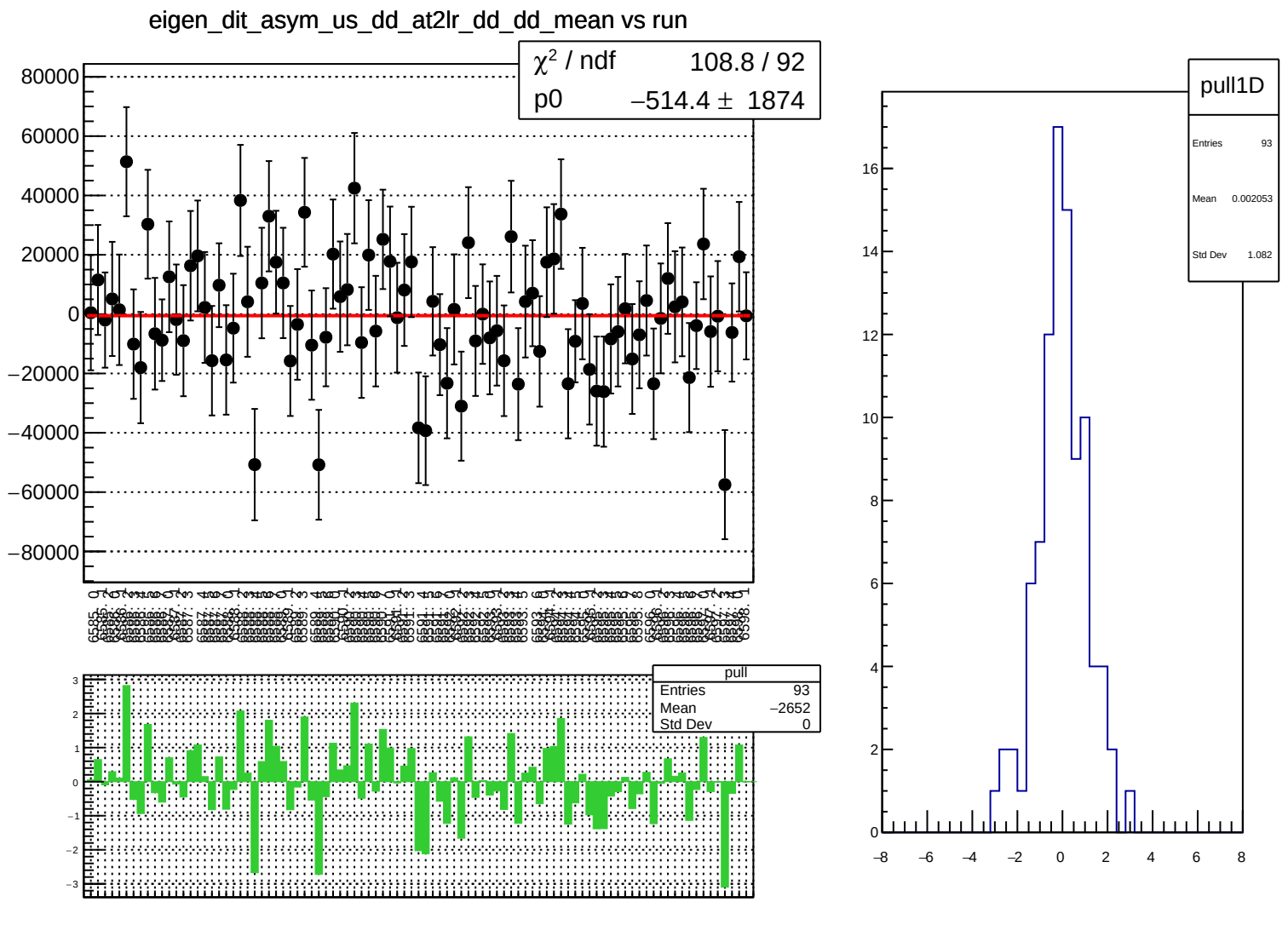

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 108.8 / 92
p0 −514.4 ± 1874
pull
Entries 93
Mean −2652
Std Dev 0
pull1D
Entries 93
Mean 0.002053
Std Dev 1.082

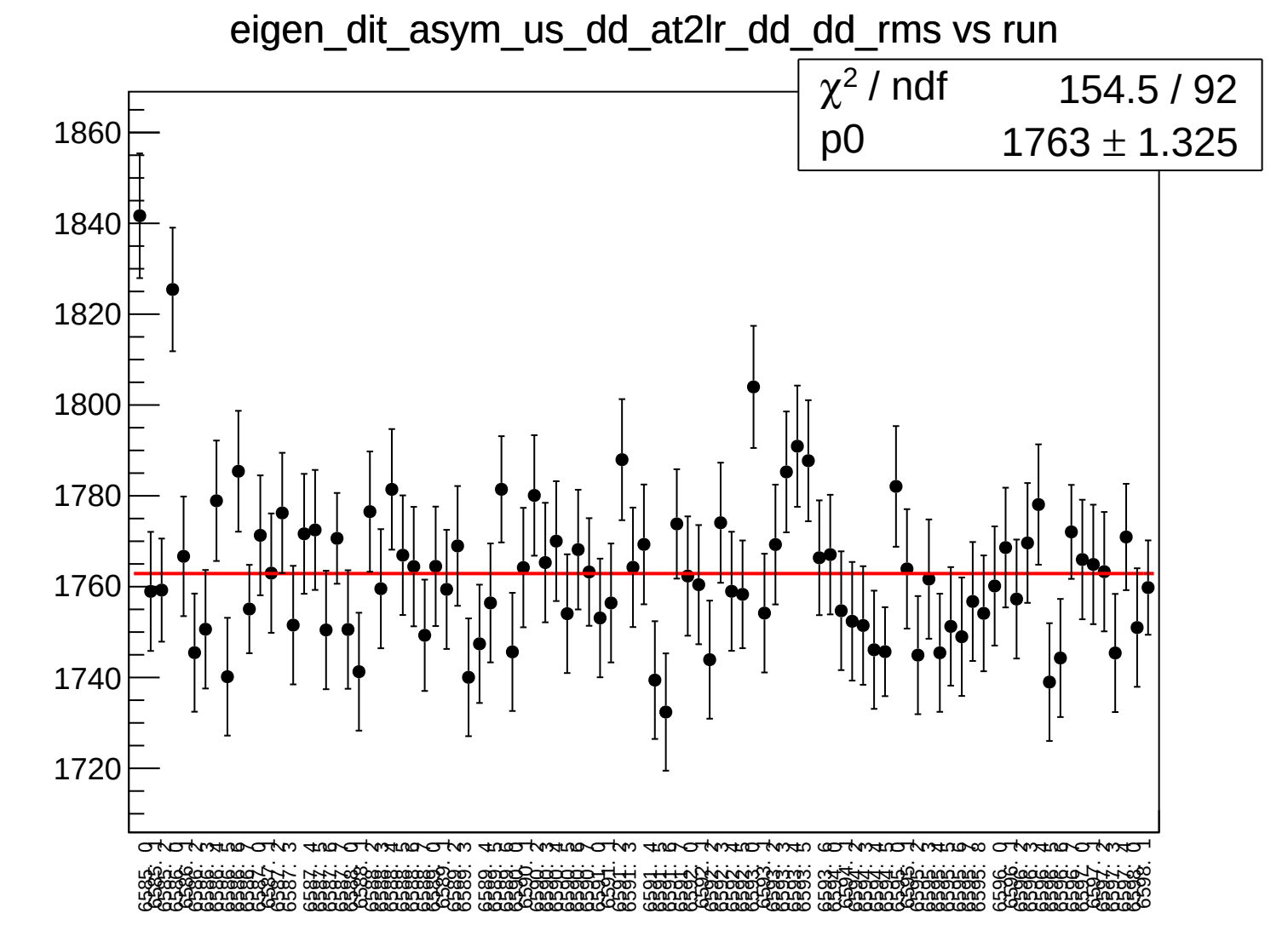

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 154.5 / 92
p0 1763 ± 1.325
1860
1840
1820
1800
1780
1760
1740
1720

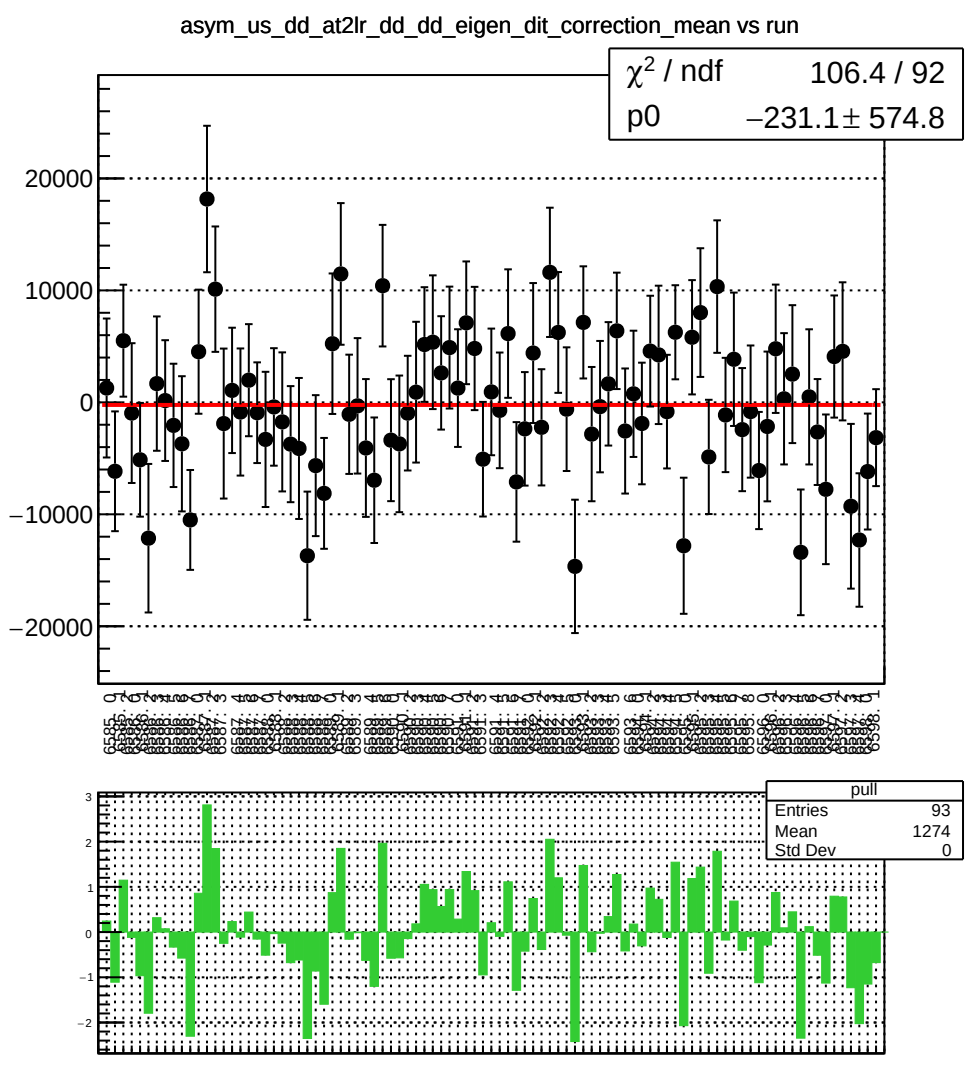

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 106.4 / 92
p0 −231.1 ± 574.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 1274
Std Dev 0
3
2
1
0
−1
−2

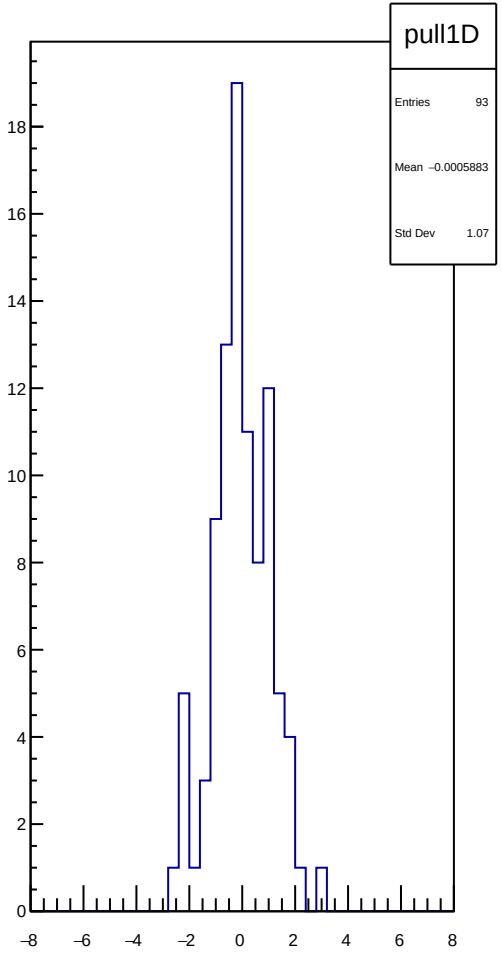

pull1D
Entries 93
Mean −0.0005883
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

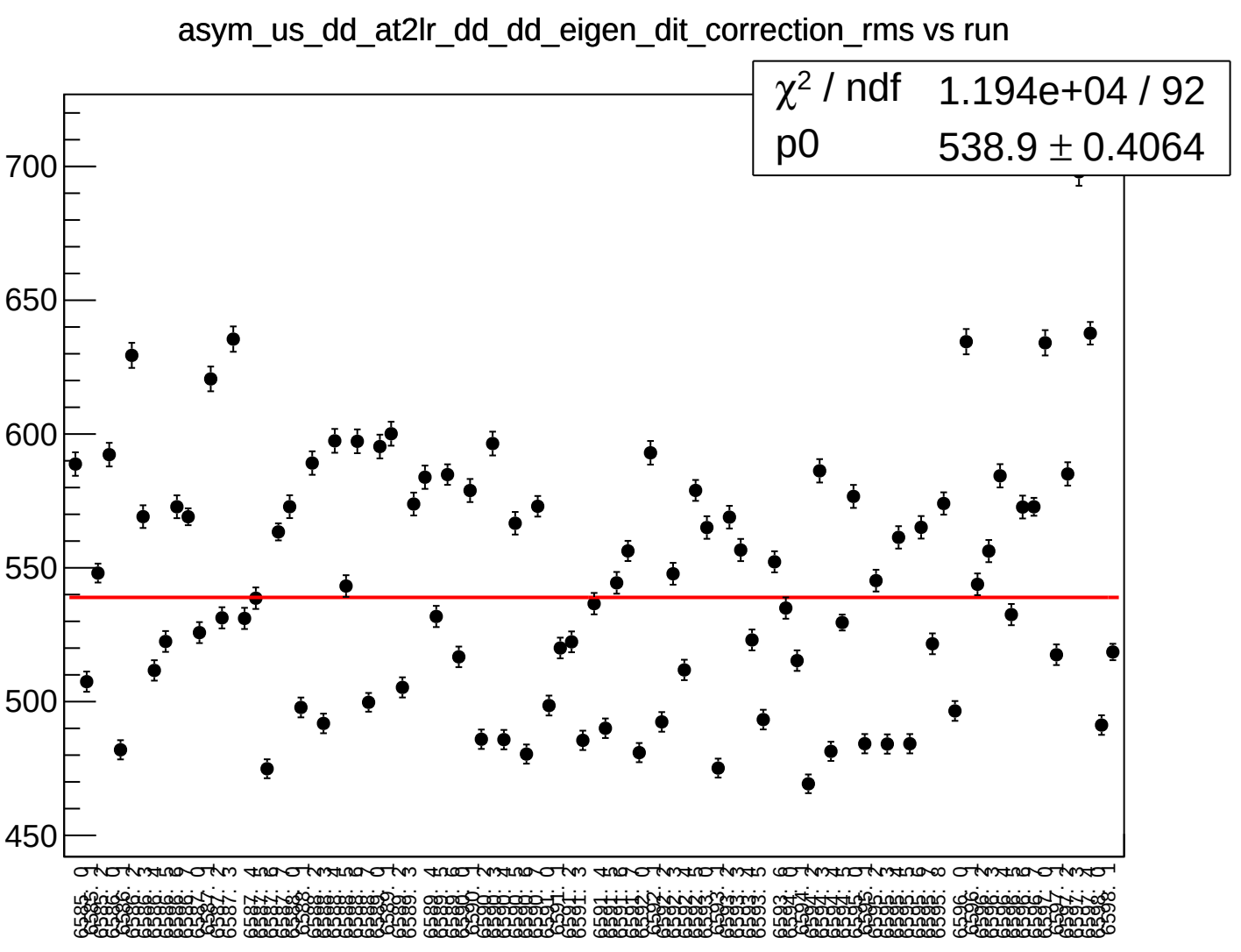

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.194e+04 / 92
p0 538.9 ± 0.4064
700
650
600
550
500
450

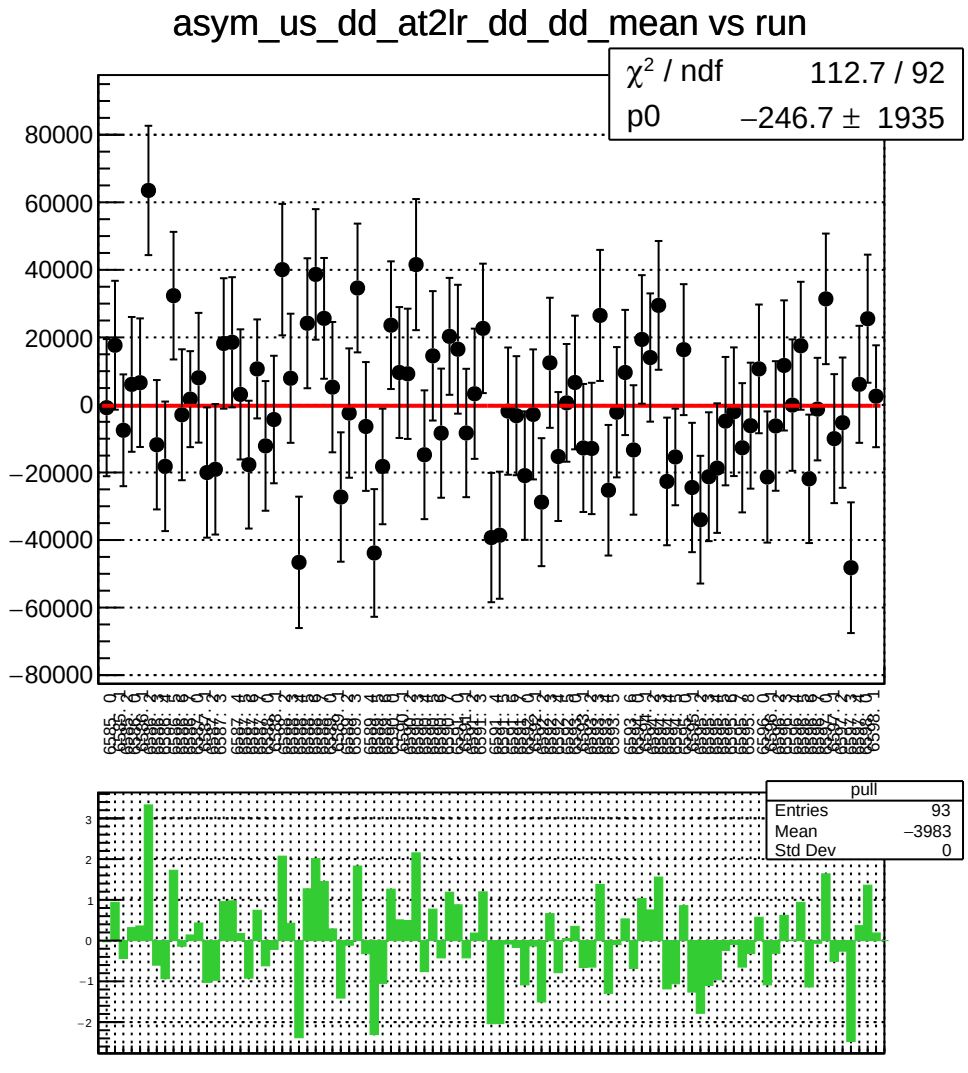

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 108.8 / 92
p0 −514.4 ± 1874
pull
Entries 93
Mean −2652
Std Dev 0
pull1D
Entries 93
Mean 0.002053
Std Dev 1.082

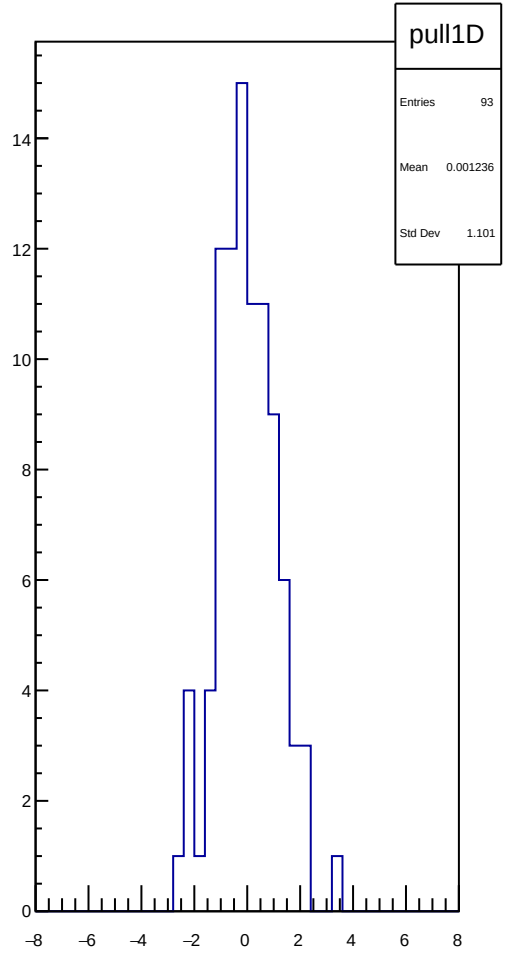

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 154.5 / 92
p0 1763 ± 1.325
1860
1840
1820
1800
1780
1760
1740
1720

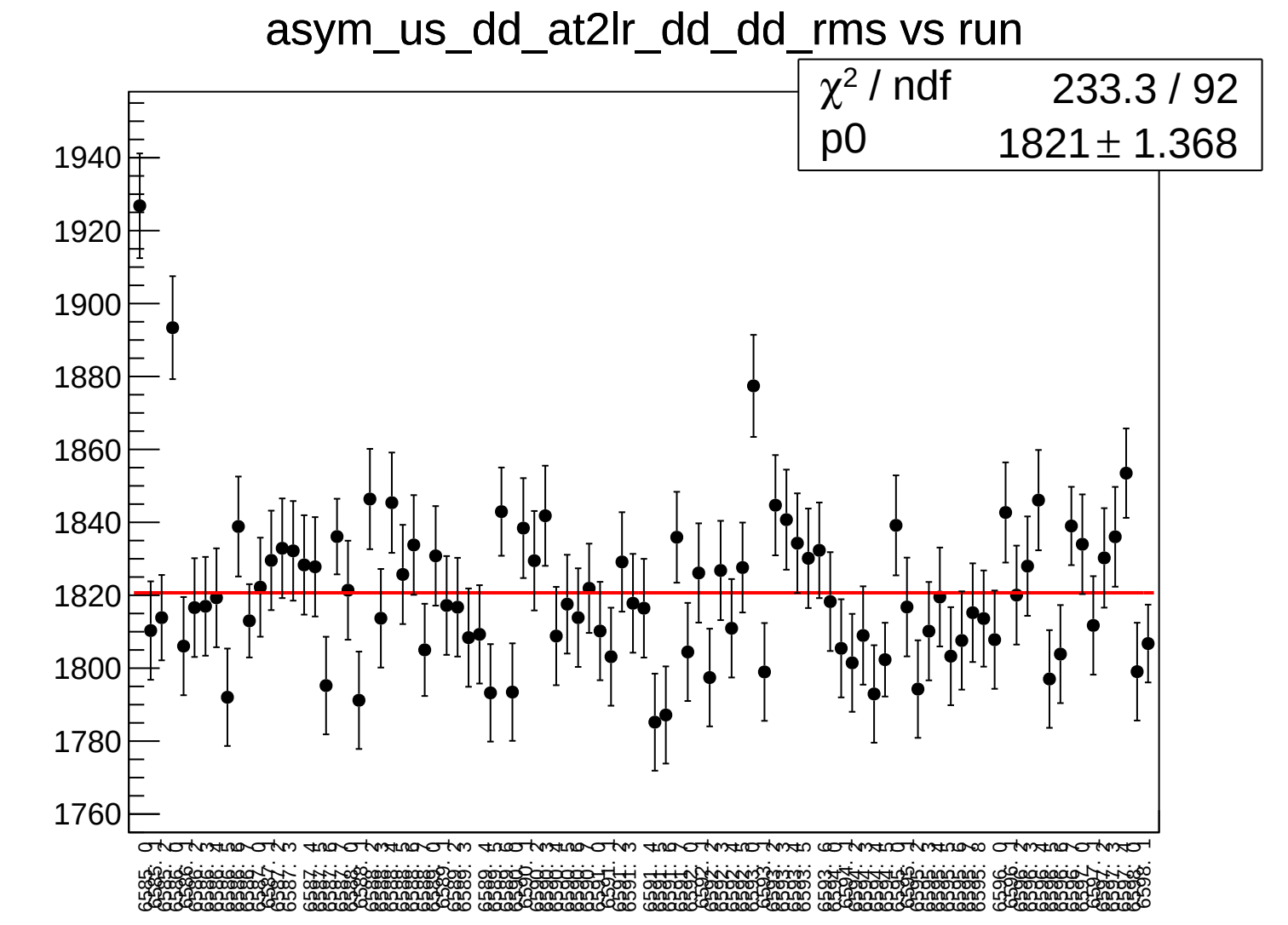

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.4 / 92
p0 −231.1 ± 574.8
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 1274
Std Dev 0
3
2
1
0
−1
−2

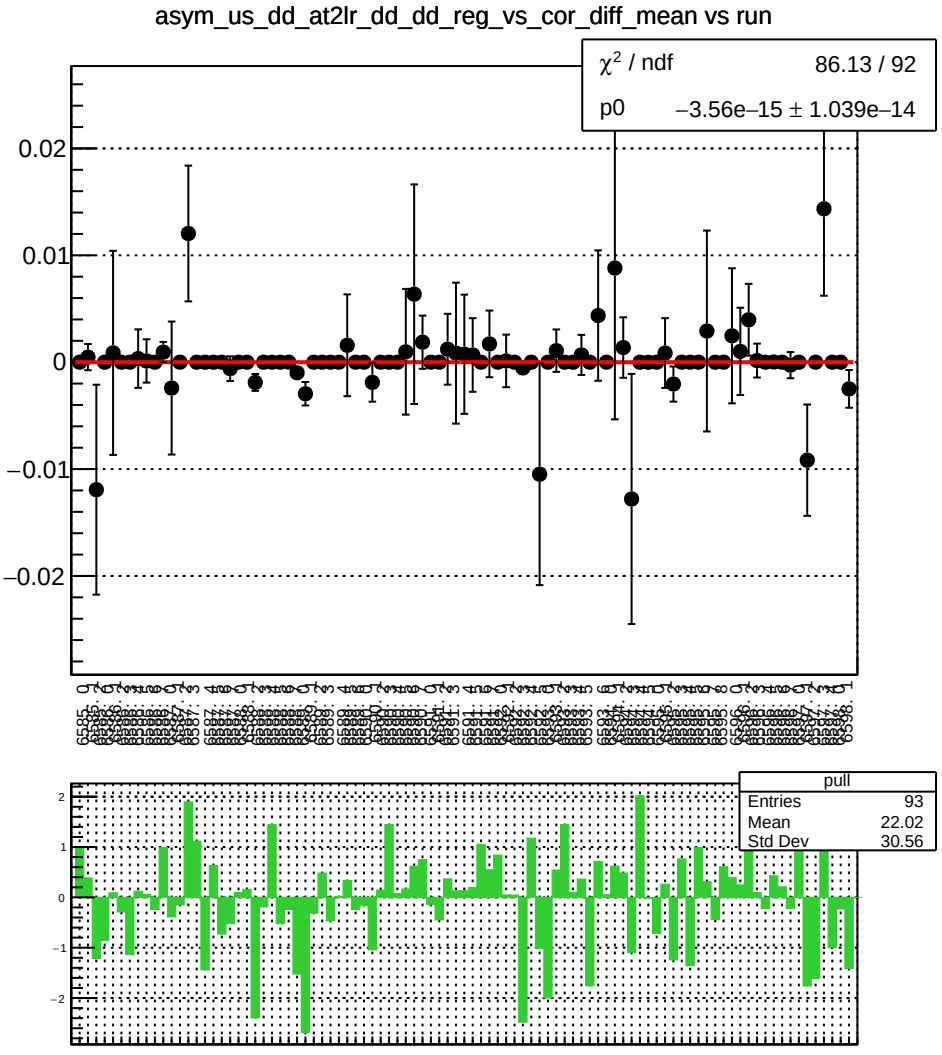

pull1D
Entries 93
Mean −0.0005883
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

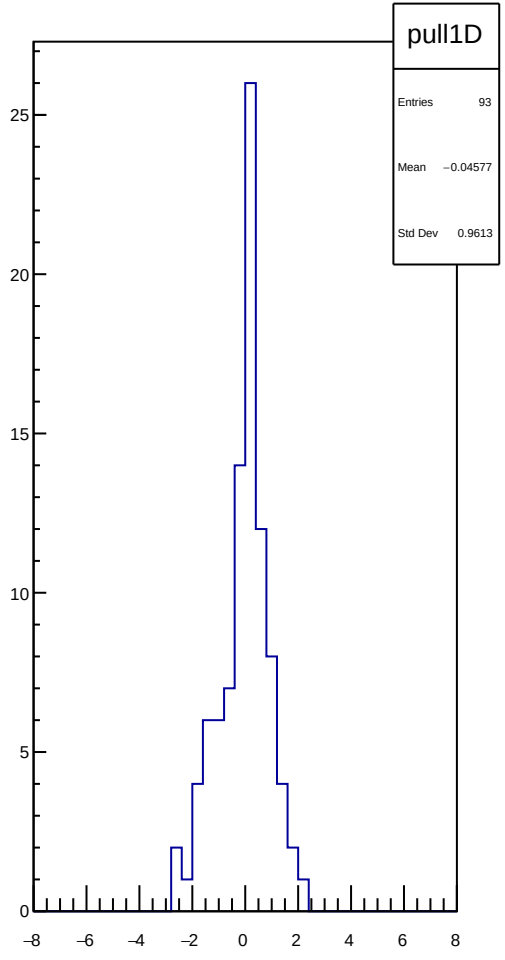

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.194e+04 / 92
p0 538.9 ± 0.4064
700
650
600
550
500
450

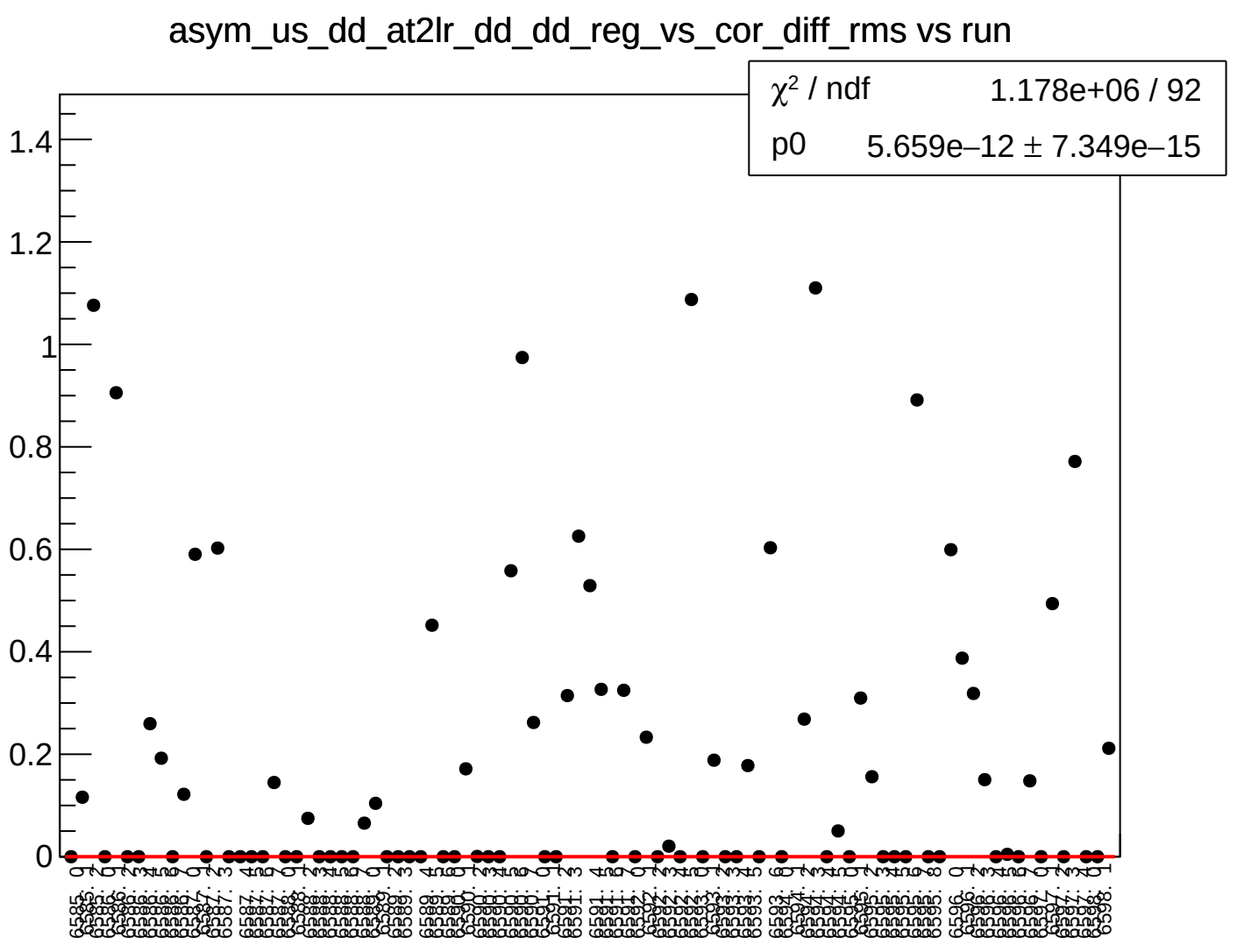

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 112.7 / 92
p0 −246.7 ± 1935
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −3983
Std Dev 0
3
2
1
0
−1
−2

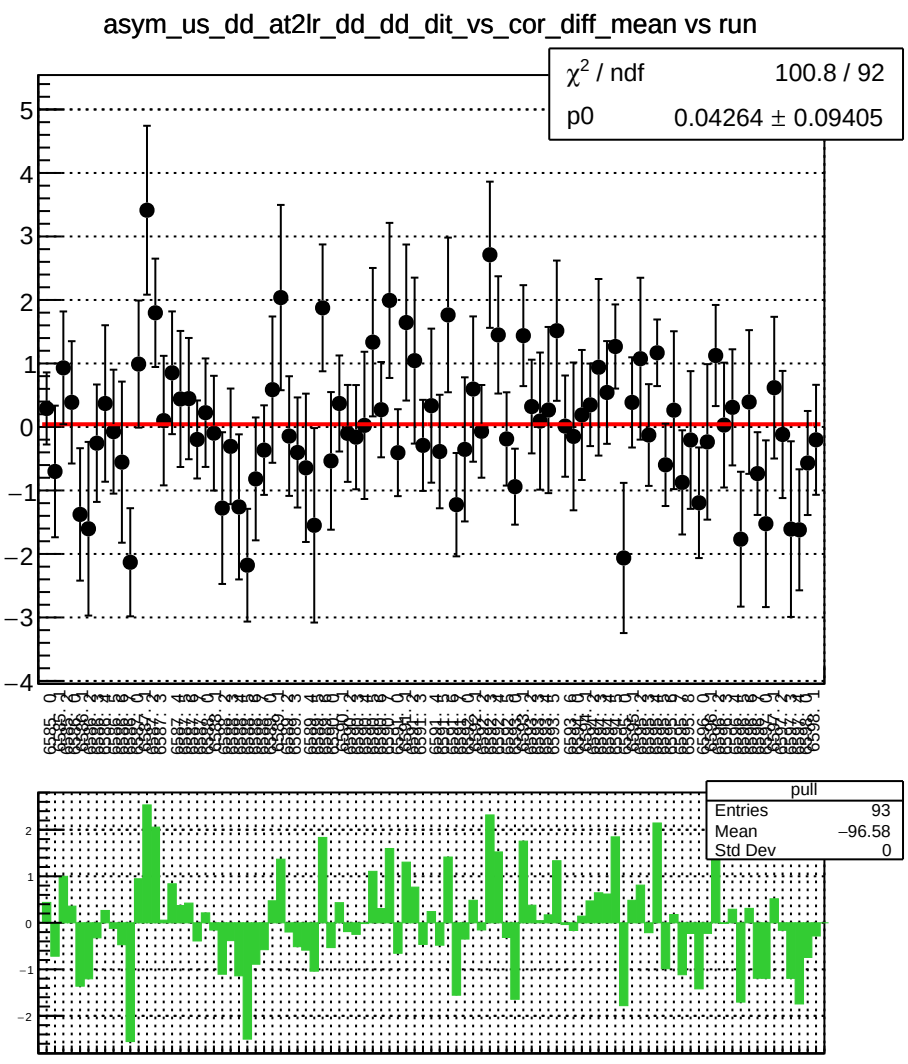

pull1D
Entries 93
Mean 0.001236
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

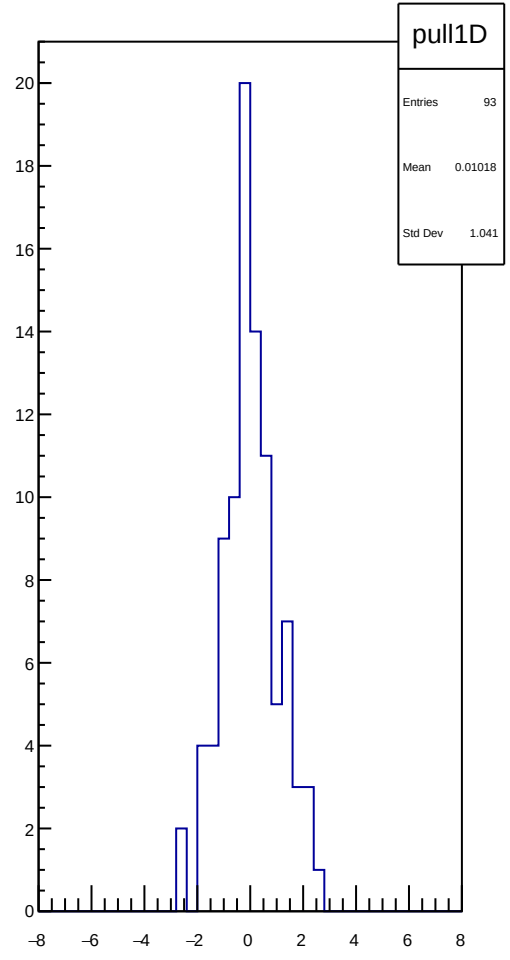

asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 233.3 / 92
p0 1821 ± 1.368
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

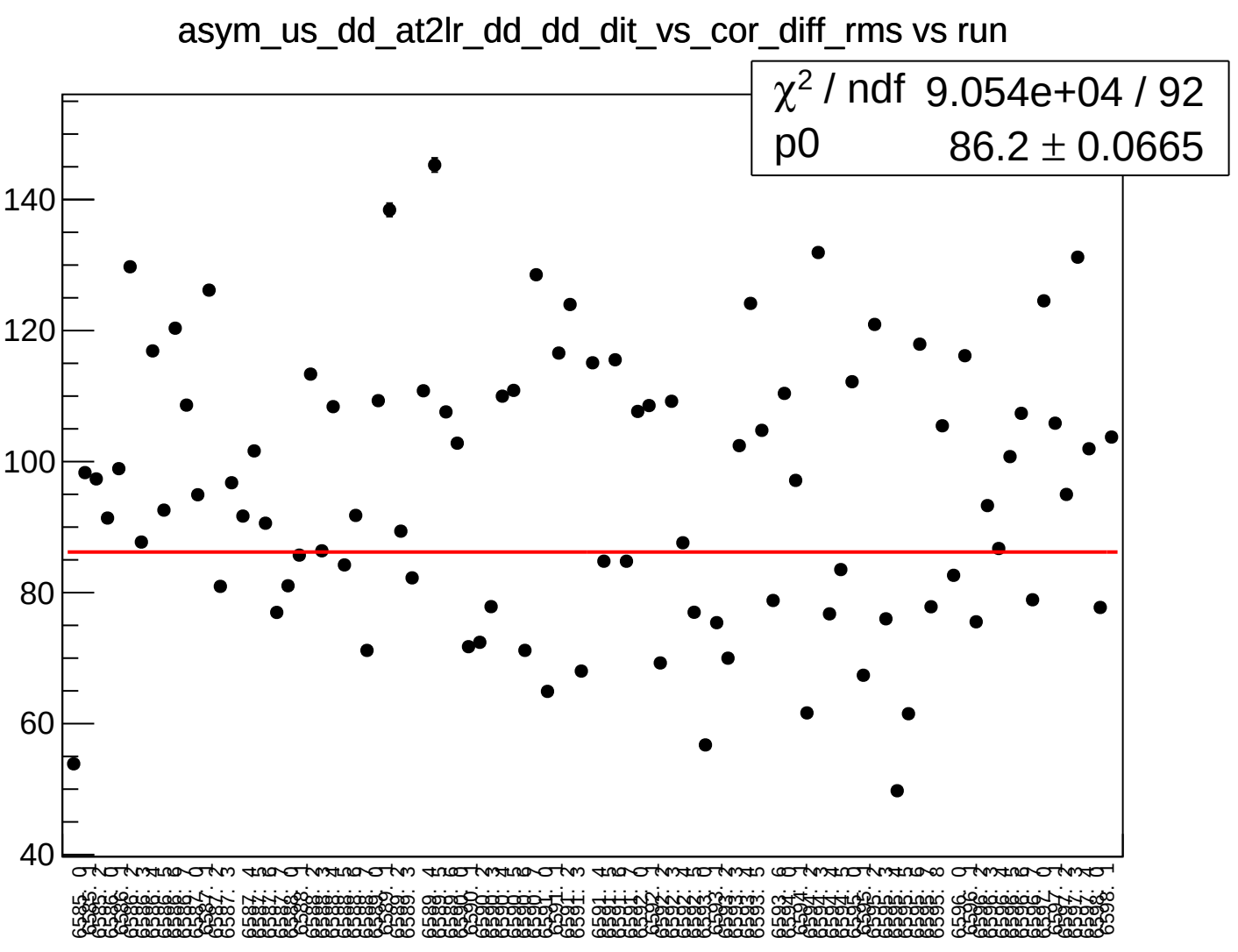

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.13 / 92
p0 −3.56e−15 ± 1.039e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 22.02
Std Dev 30.56
2
1
0
−1
−2

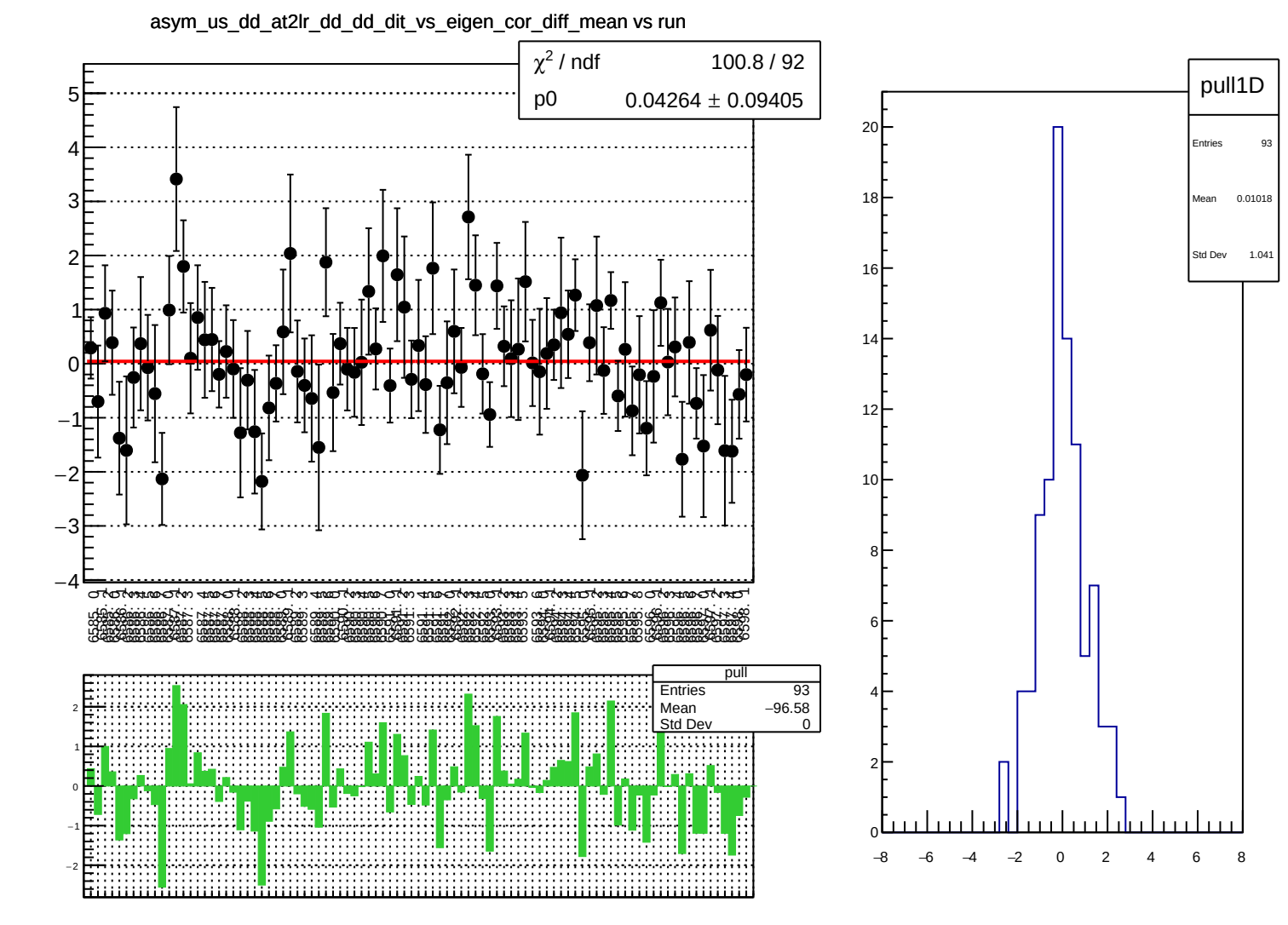

pull1D
Entries 93
Mean −0.04577
Std Dev 0.9613
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

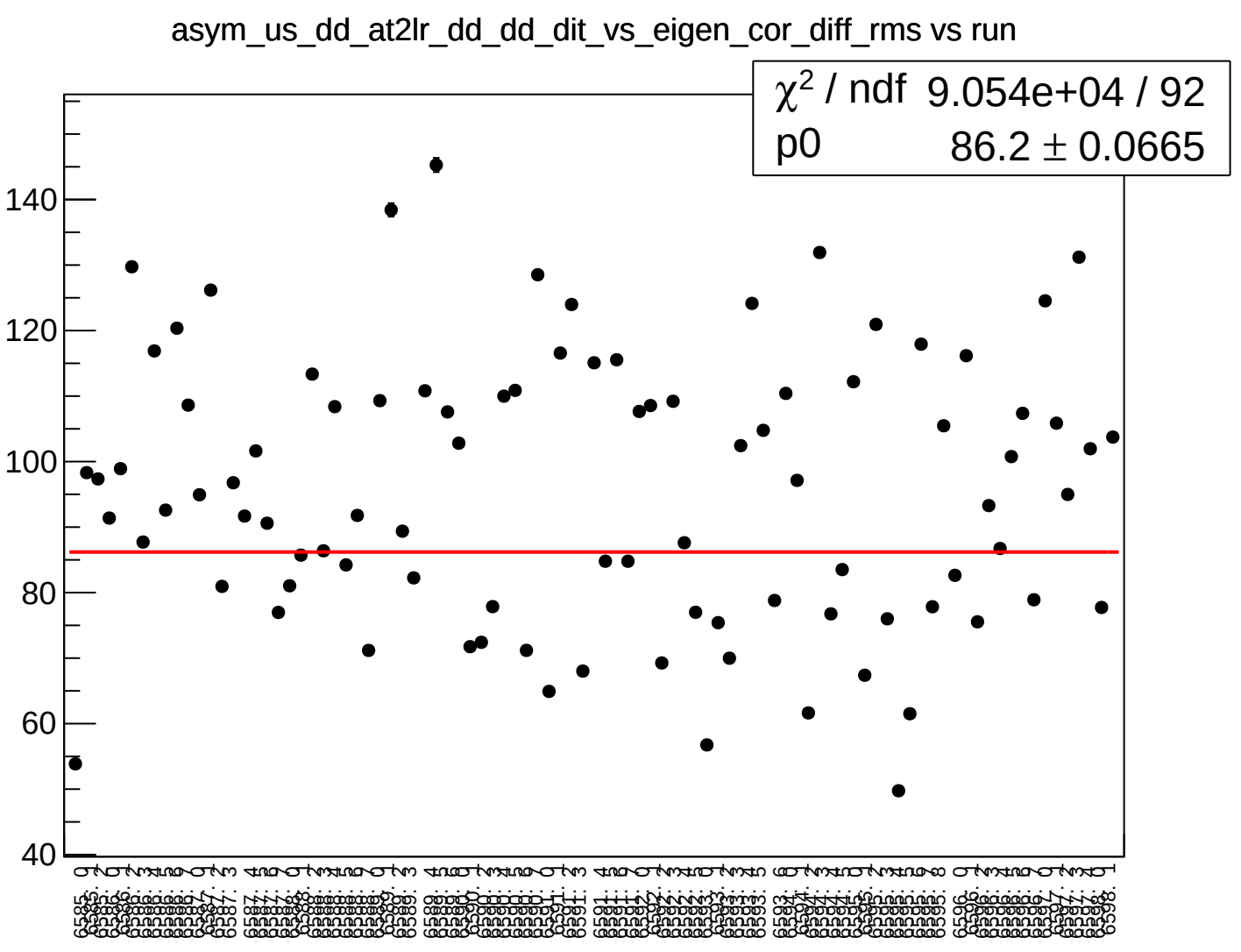

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.178e+06 / 92
p0 5.659e−12 ± 7.349e−15
1.4
1.2
1
0.8
0.6
0.4
0.2
0

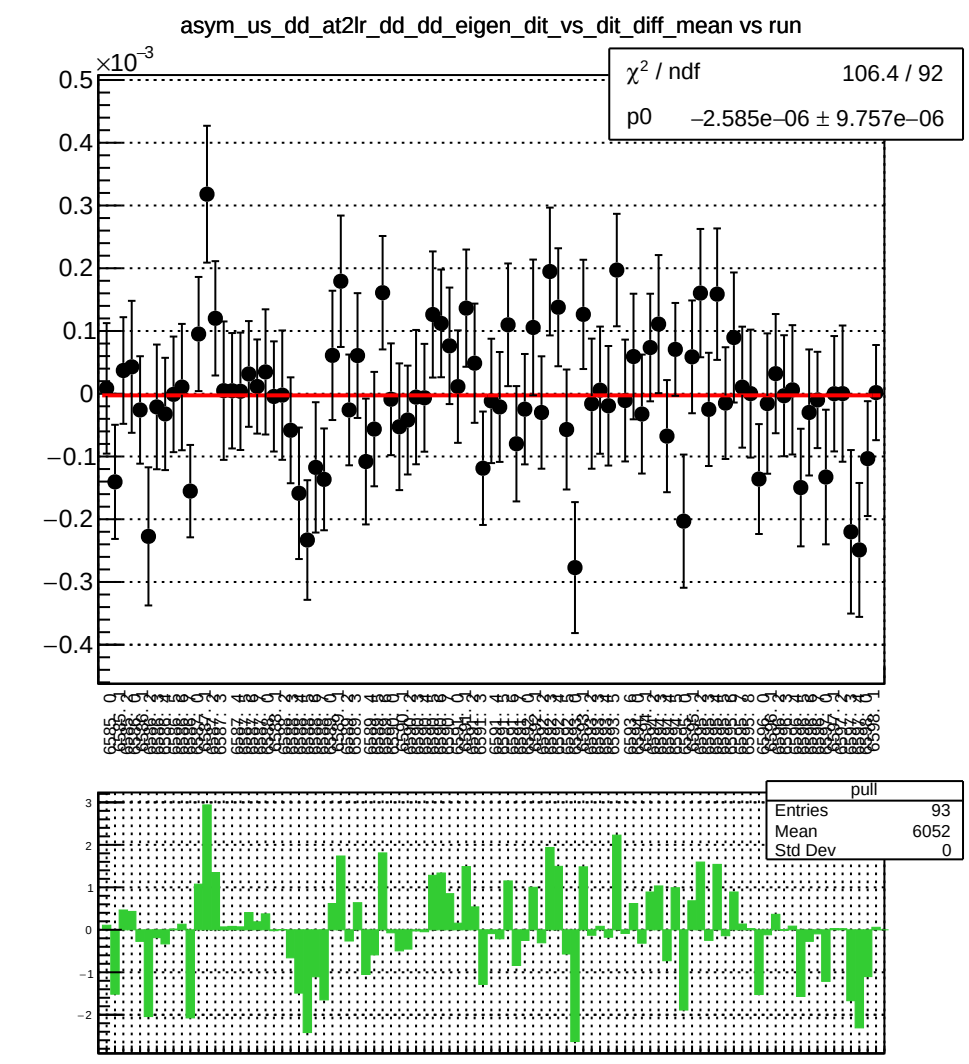

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 92
p0 0.04264 ± 0.09405
pull
Entries 93
Mean −96.58
Std Dev 0

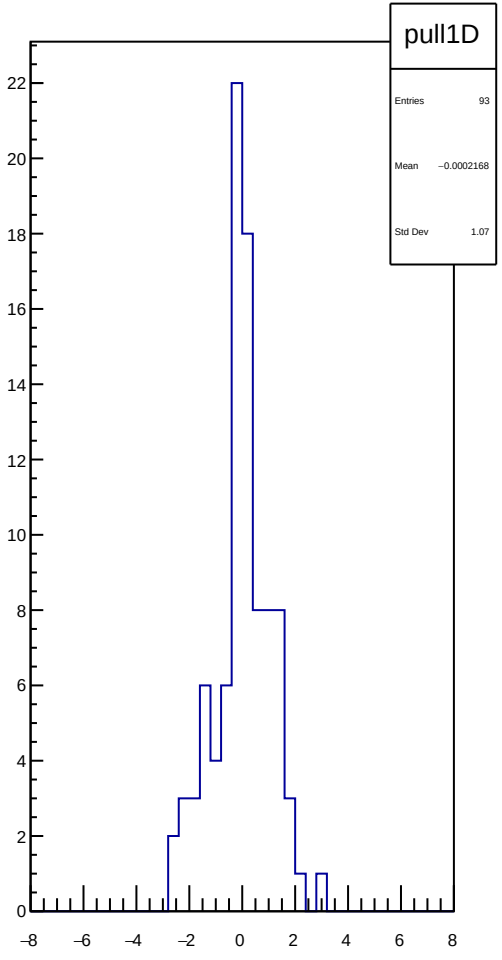

pull1D
Entries 93
Mean 0.01018
Std Dev 1.041

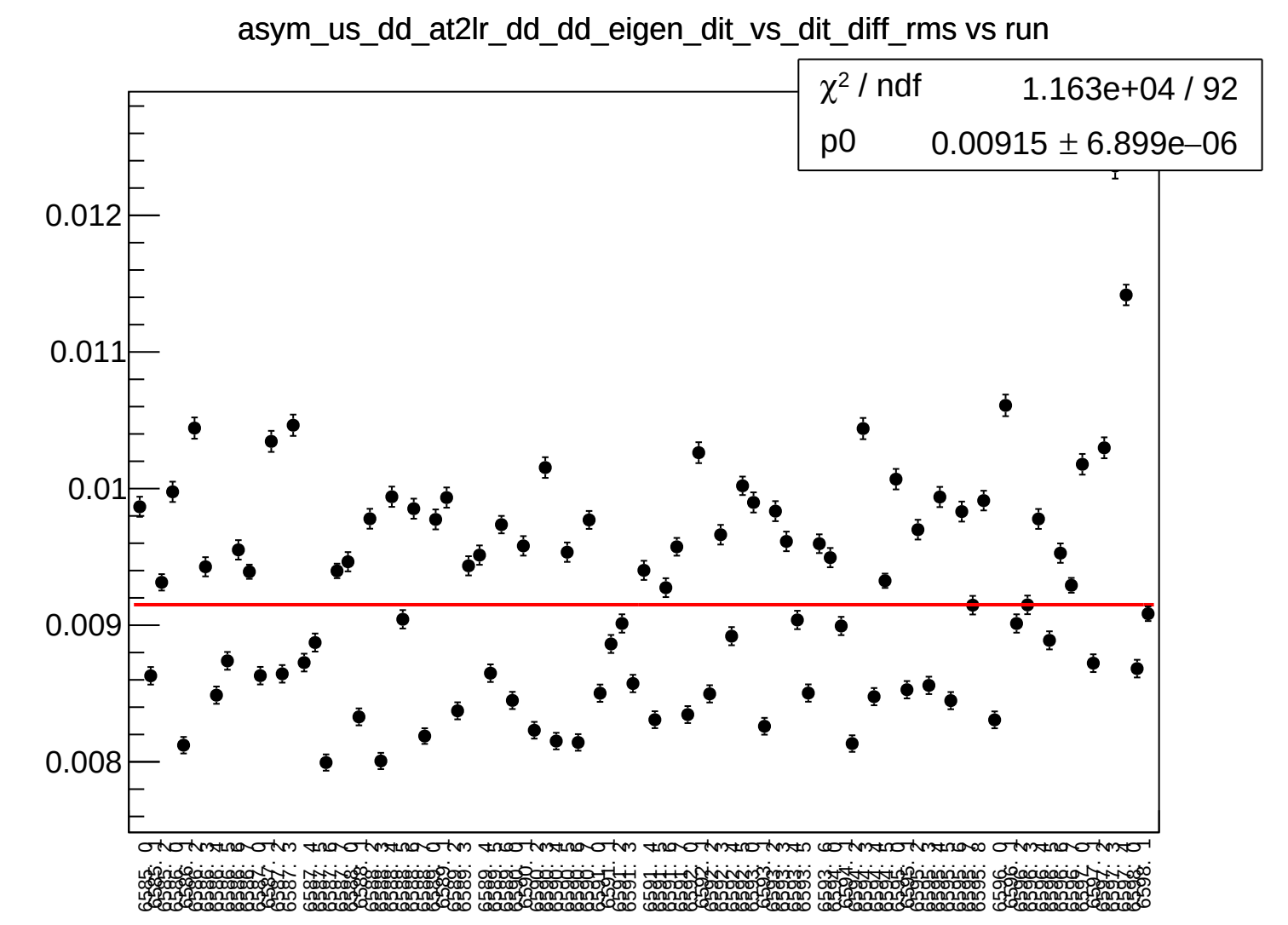

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.054e+04 / 92
p0 86.2 ± 0.0665
140
120
100
80
60
40

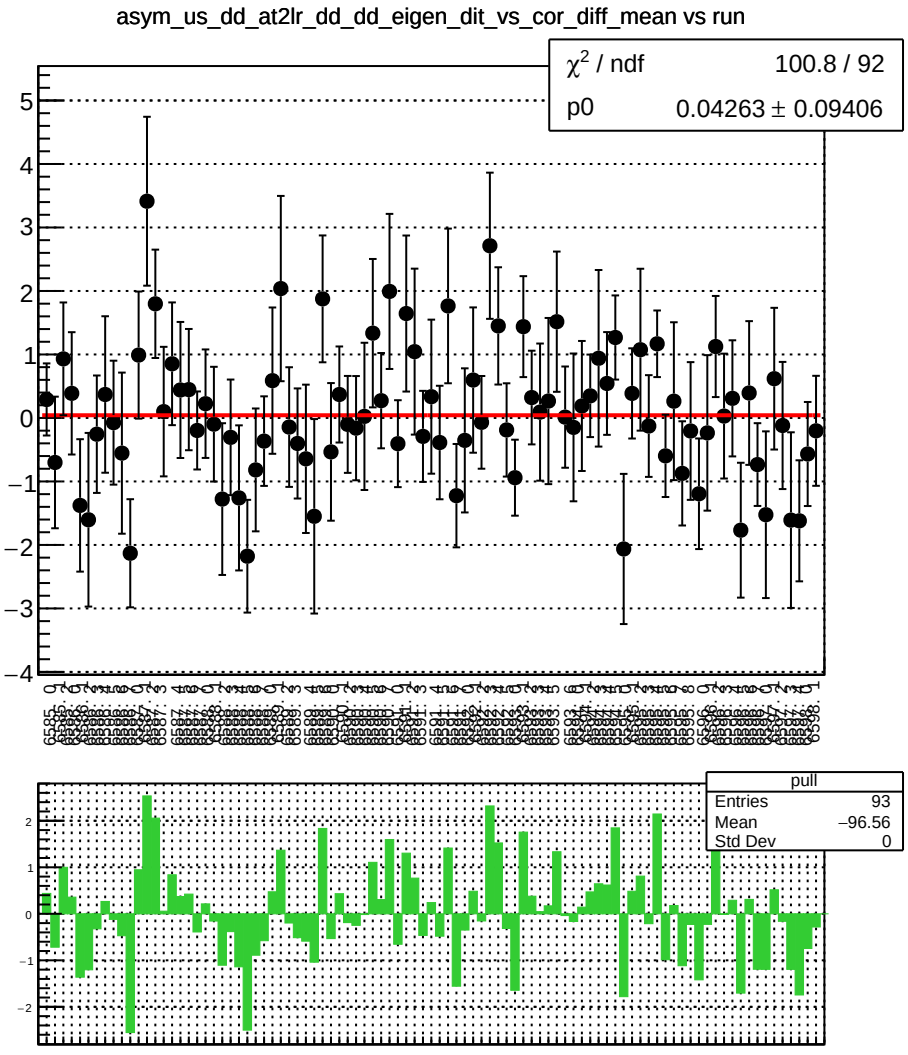

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 92
p0 0.04264 ± 0.09405
pull
Entries 93
Mean −96.58
Std Dev 0
pull1D
Entries 93
Mean 0.01018
Std Dev 1.041

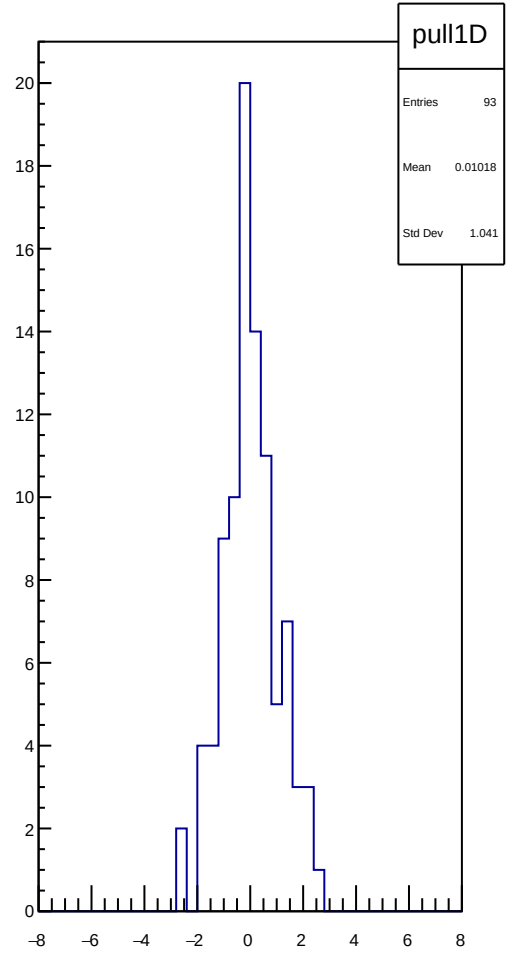

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.054e+04 / 92
p0 86.2 ± 0.0665
140
120
100
80
60
40

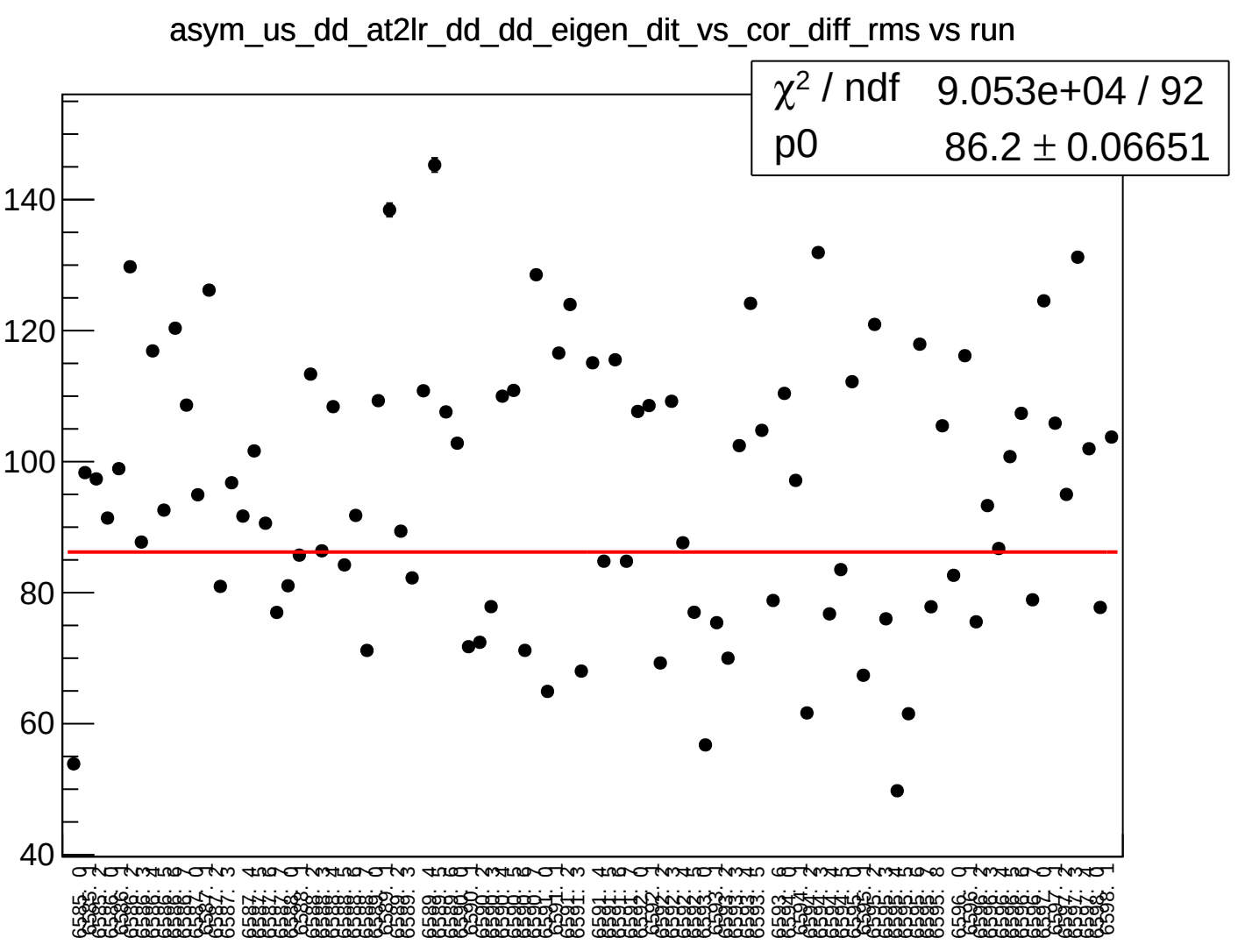

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.4 / 92
p0 −2.585e−06 ± 9.757e−06
pull
Entries 93
Mean 6052
Std Dev 0

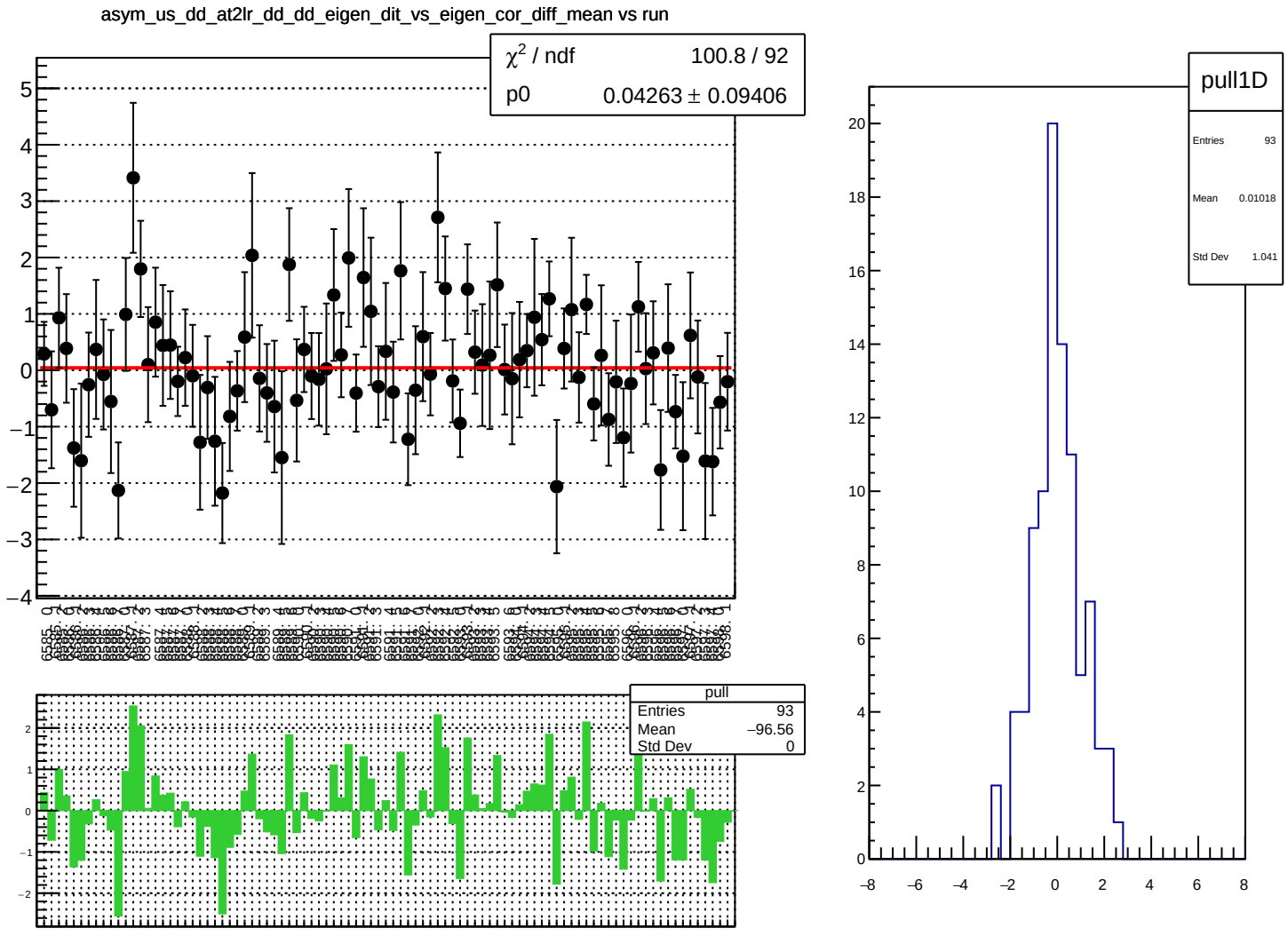

pull1D
Entries 93
Mean −0.0002168
Std Dev 1.07

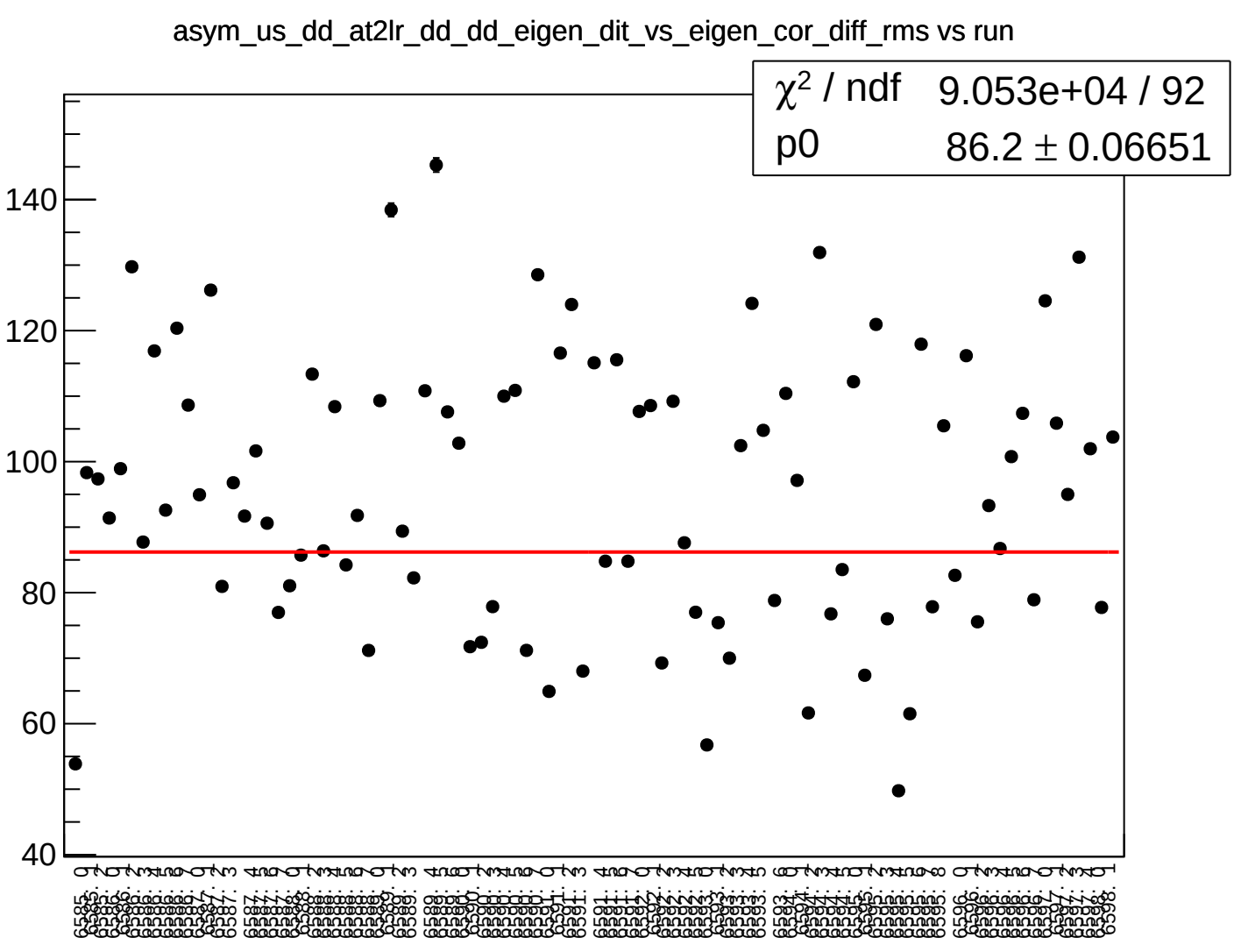

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.163e+04 / 92
p0 0.00915 ± 6.899e−06
0.012
0.011
0.01
0.009
0.008

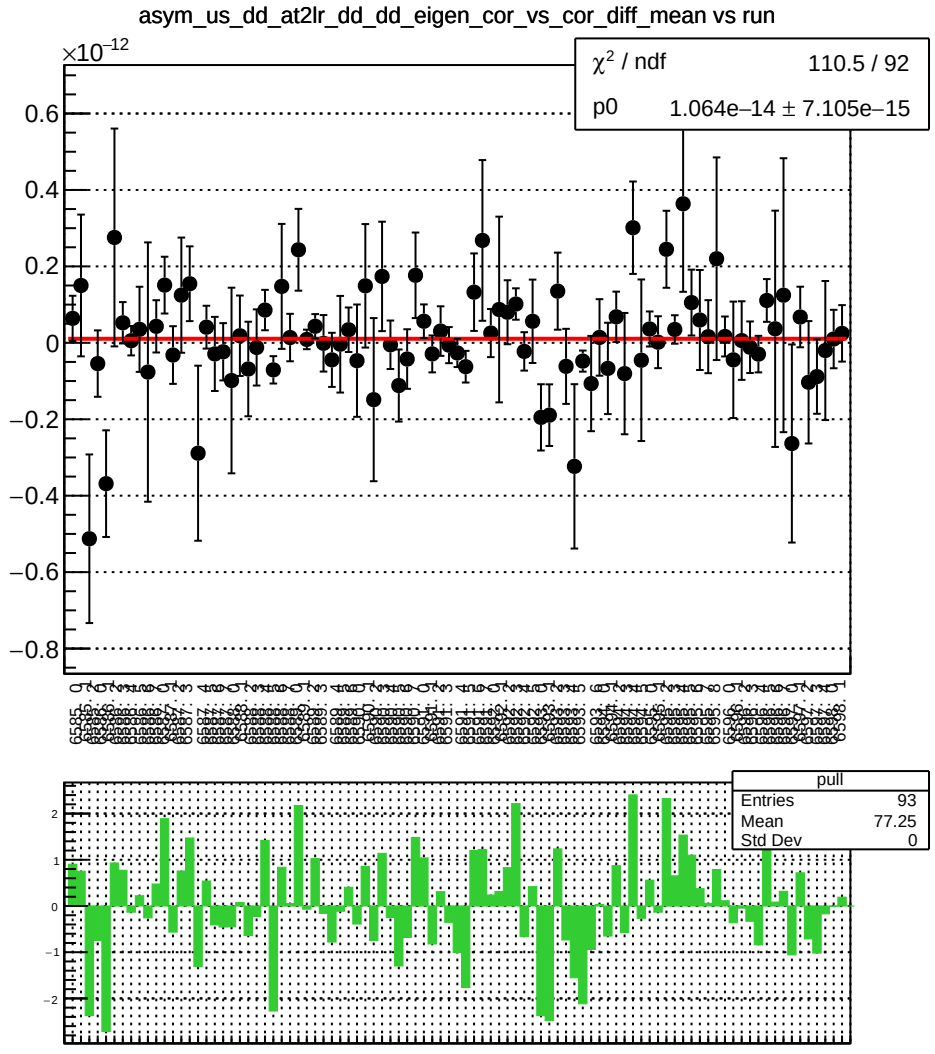

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 92
p0 0.04263 ± 0.09406
pull
Entries 93
Mean −96.56
Std Dev 0

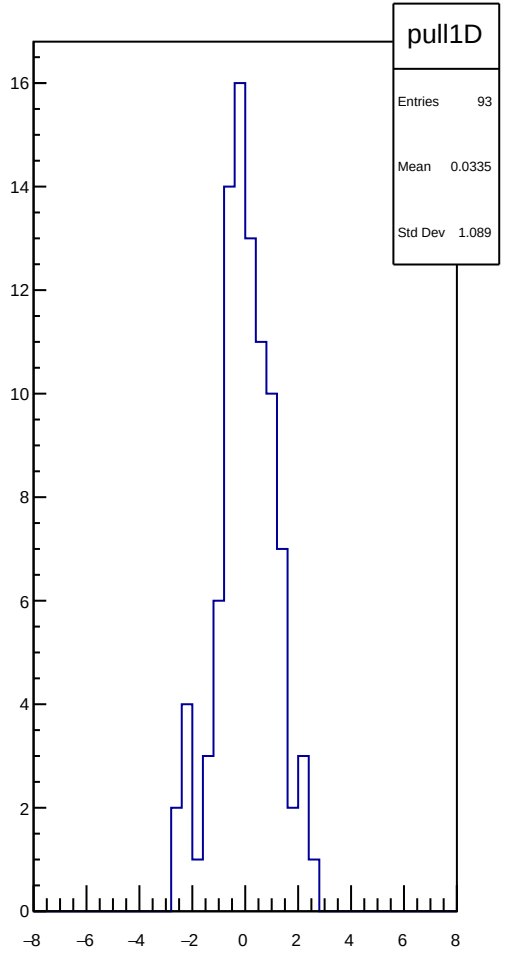

pull1D
Entries 93
Mean 0.01018
Std Dev 1.041

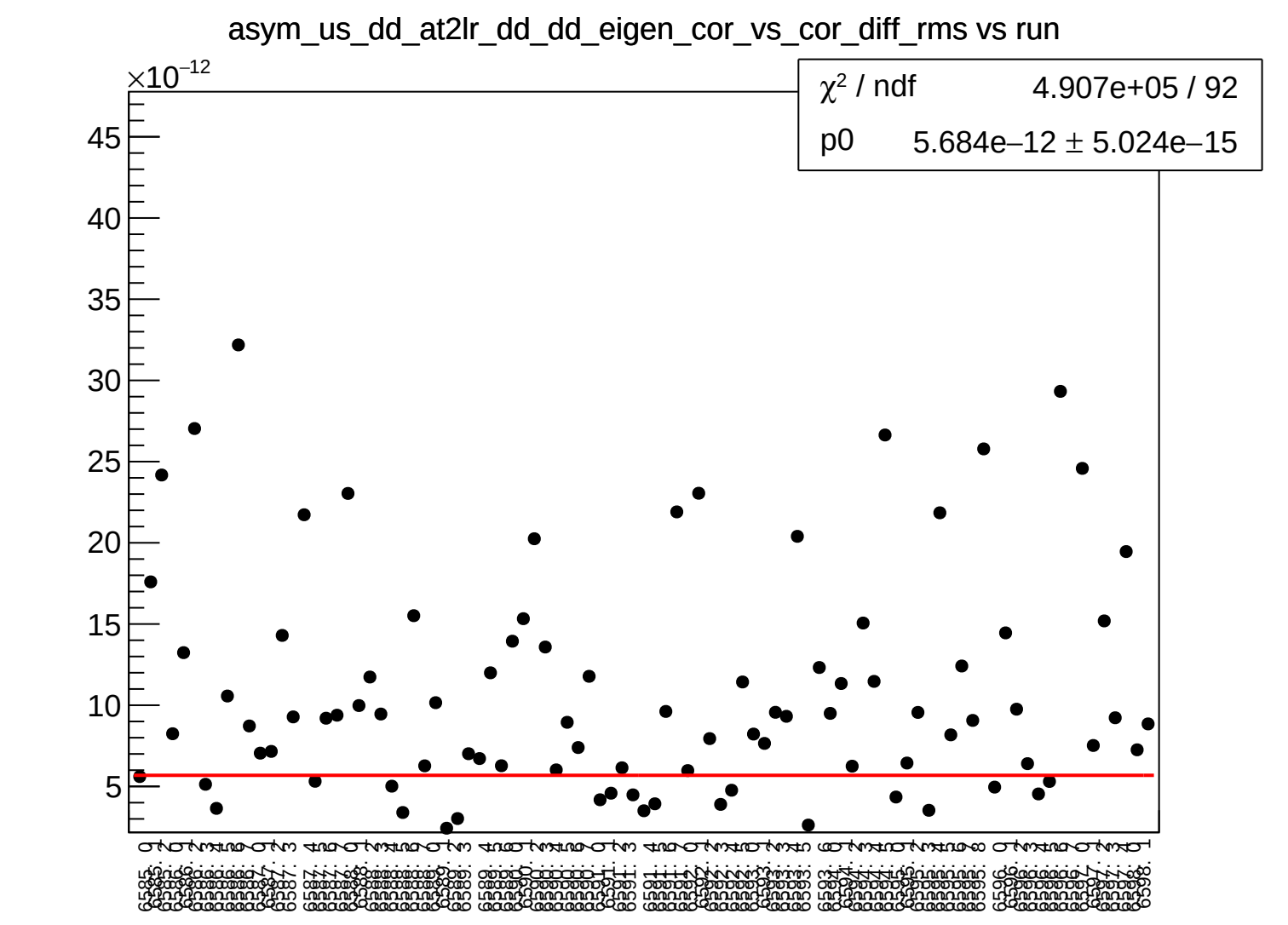

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.053e+04 / 92
p0 86.2 ± 0.06651
140
120
100
80
60
40

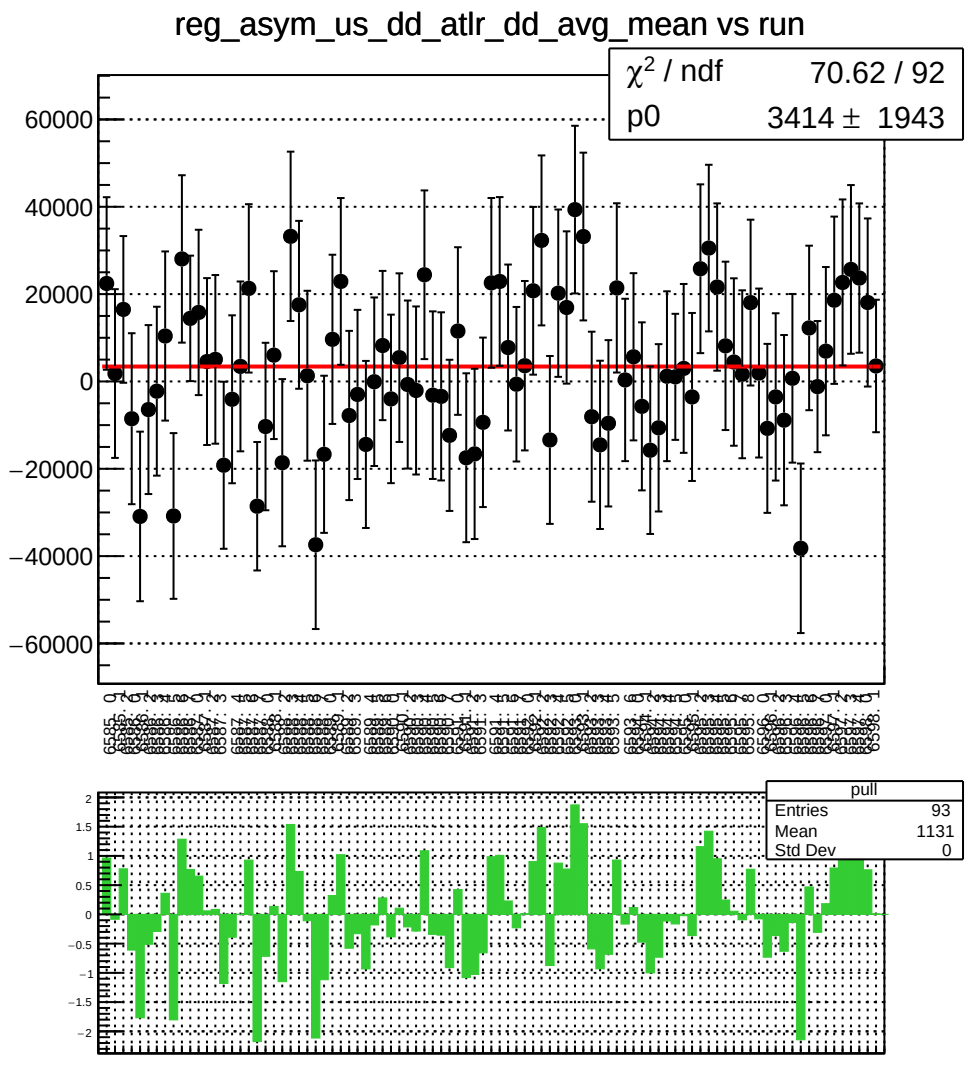

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 92
p0 0.04263 ± 0.09406
pull
Entries 93
Mean −96.56
Std Dev 0
pull1D
Entries 93
Mean 0.01018
Std Dev 1.041

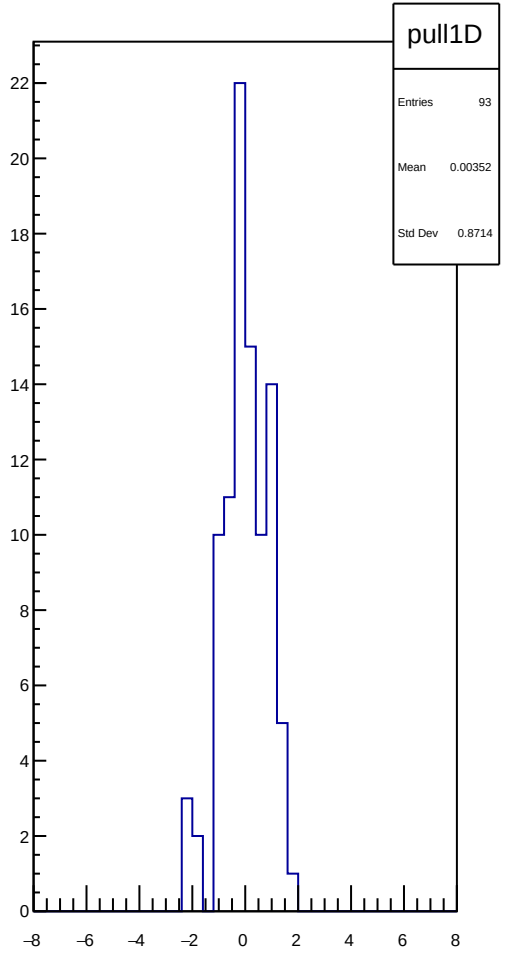

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.053e+04 / 92
p0 86.2 ± 0.06651
140
120
100
80
60
40

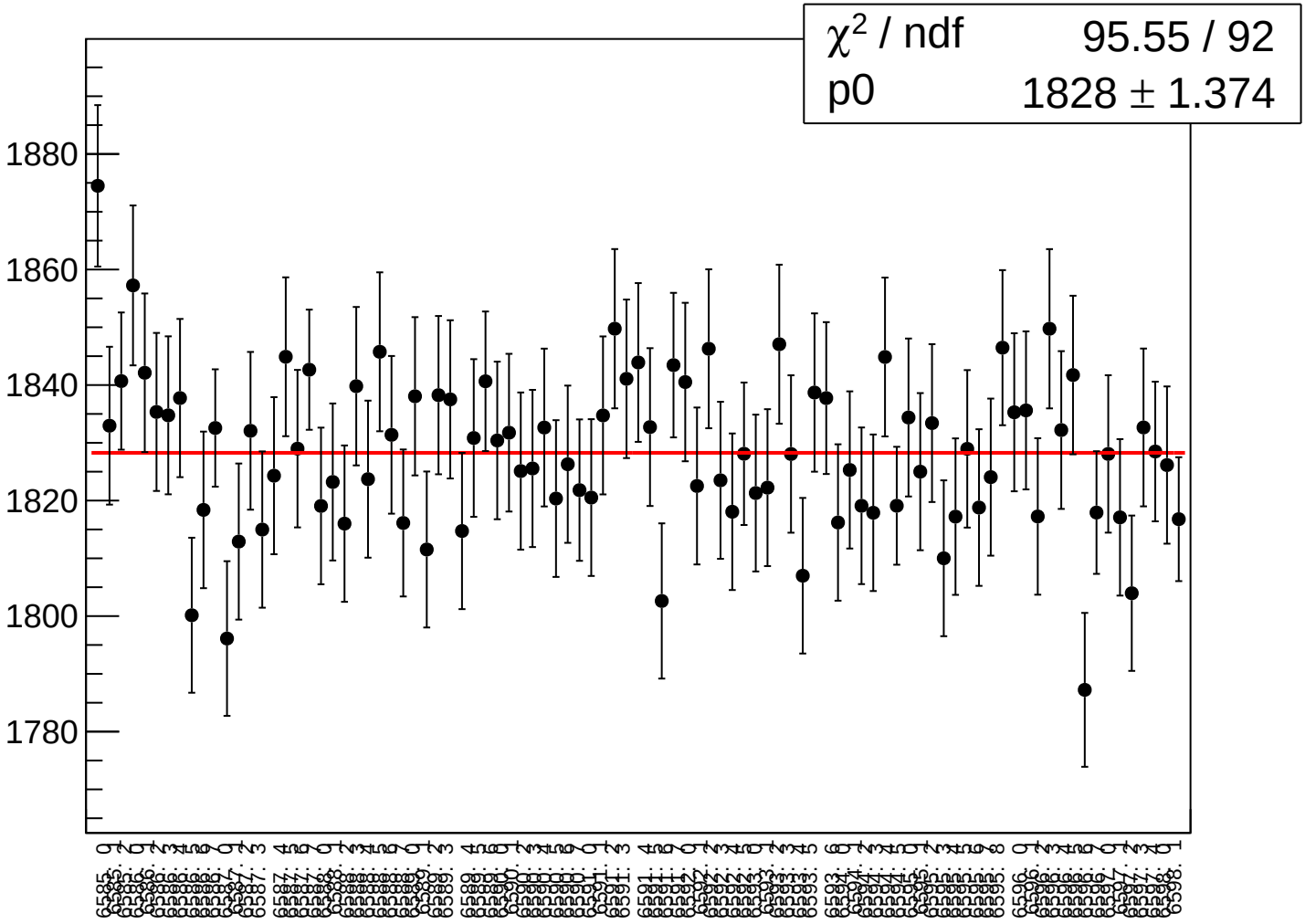

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.5 / 92
p0 1.064e−14 ± 7.105e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 93
Mean 77.25
Std Dev 0
2
1
0
−1
−2

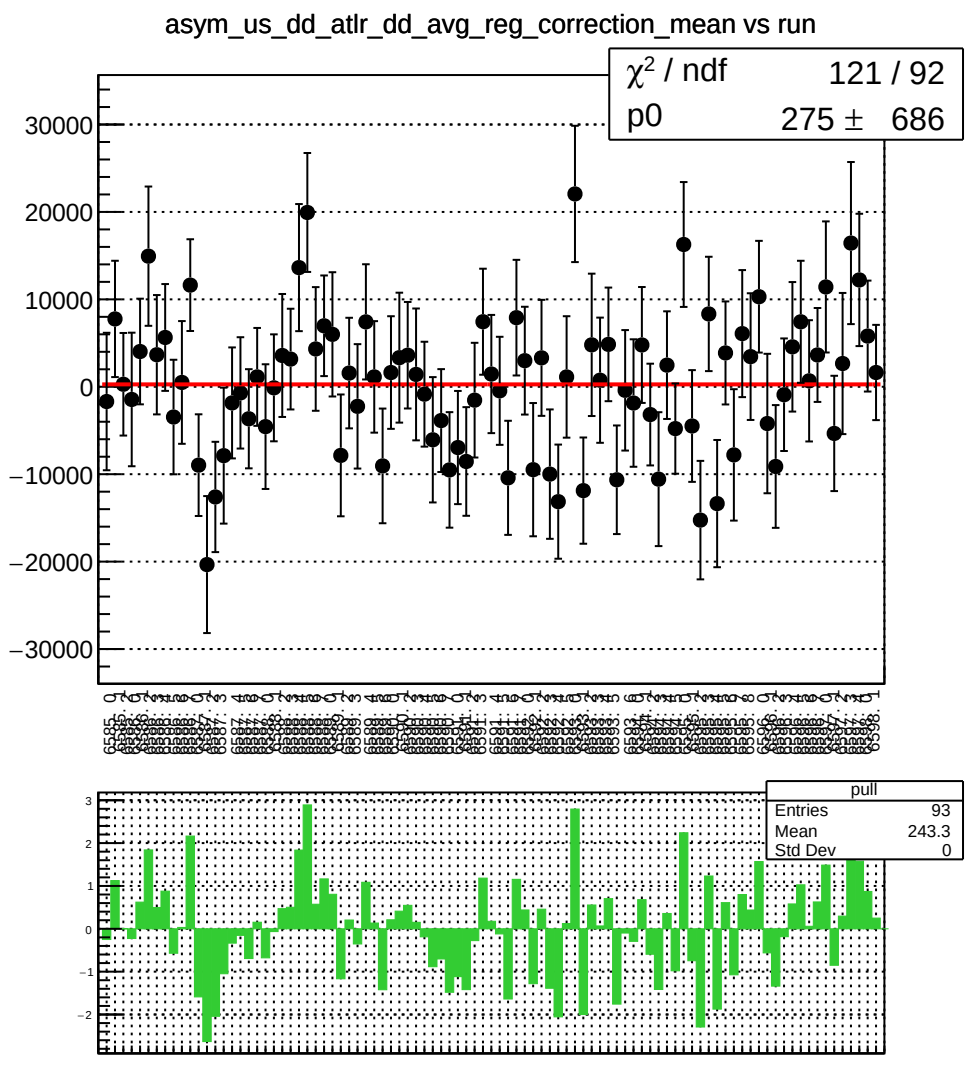

pull1D
Entries 93
Mean 0.0335
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

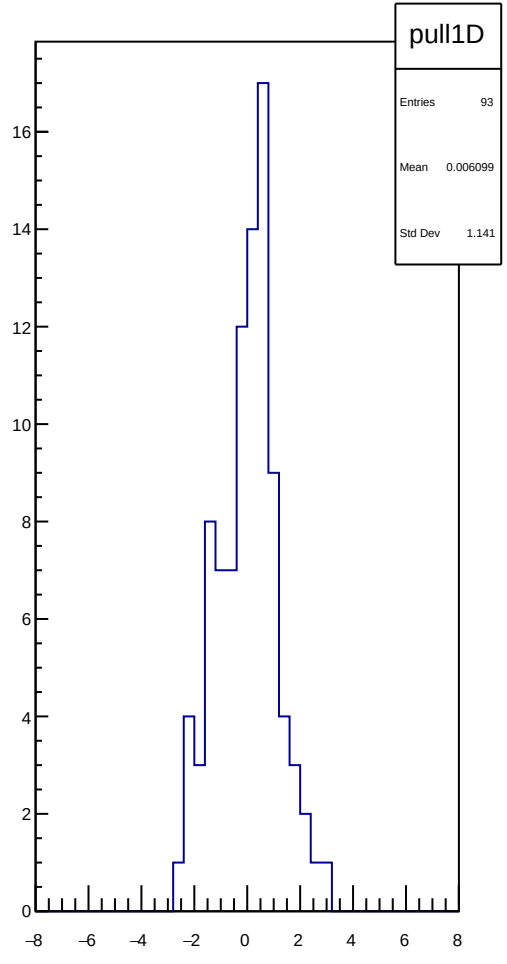

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.907e+05 / 92
p0 5.684e−12 ± 5.024e−15
45
40
35
30
25
20
15
10
5

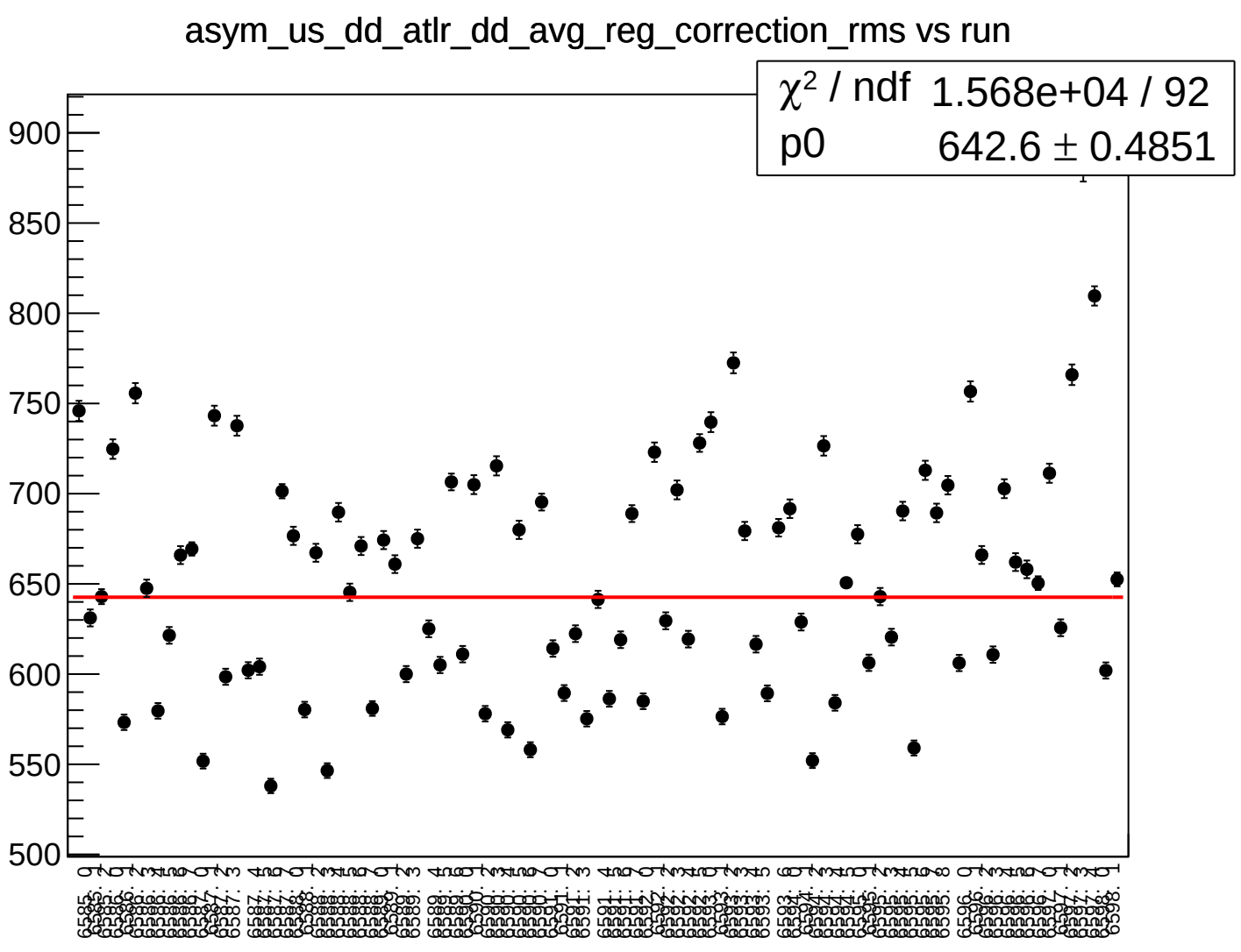

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 70.62 / 92
p0 3414 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1131
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

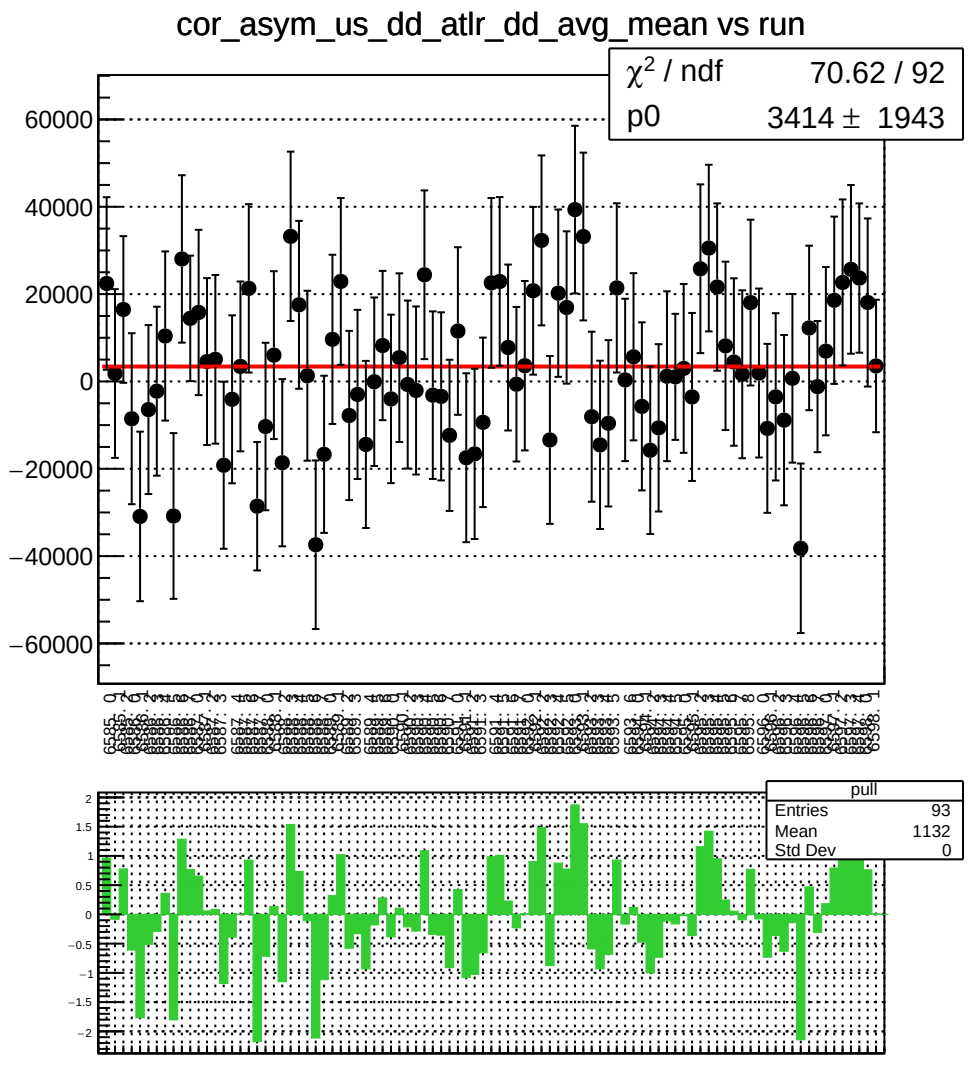

pull1D
Entries 93
Mean 0.00352
Std Dev 0.8714
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

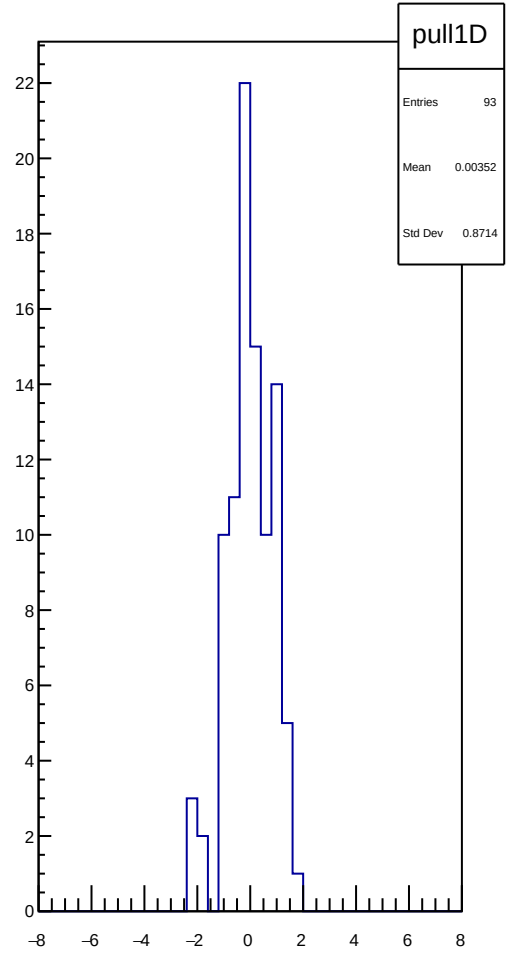

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 95.55 / 92
p0 1828 ± 1.374
1880
1860
1840
1820
1800
1780

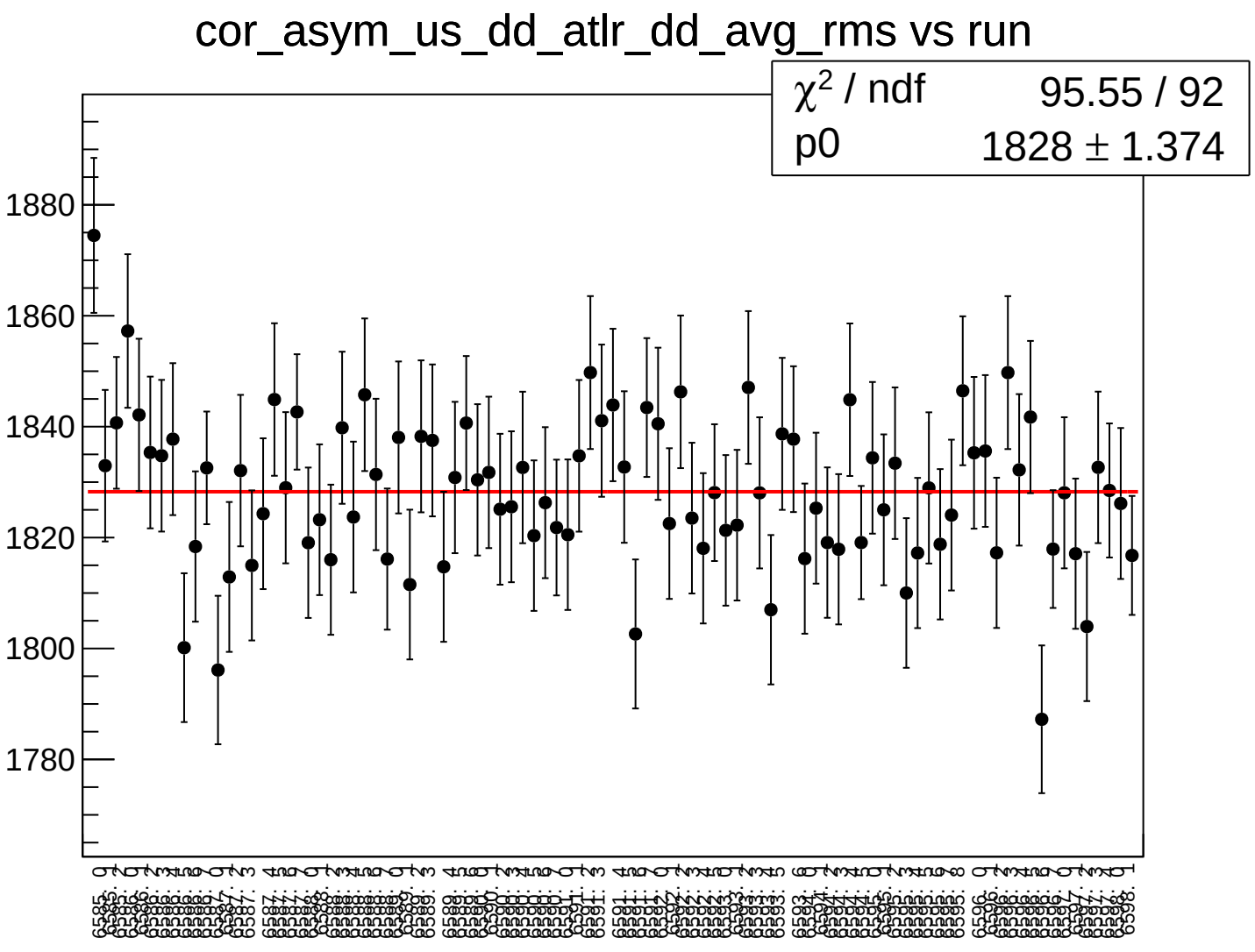

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 121 / 92
p0 275 ± 686
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 243.3
Std Dev 0
3
2
1
0
−1
−2

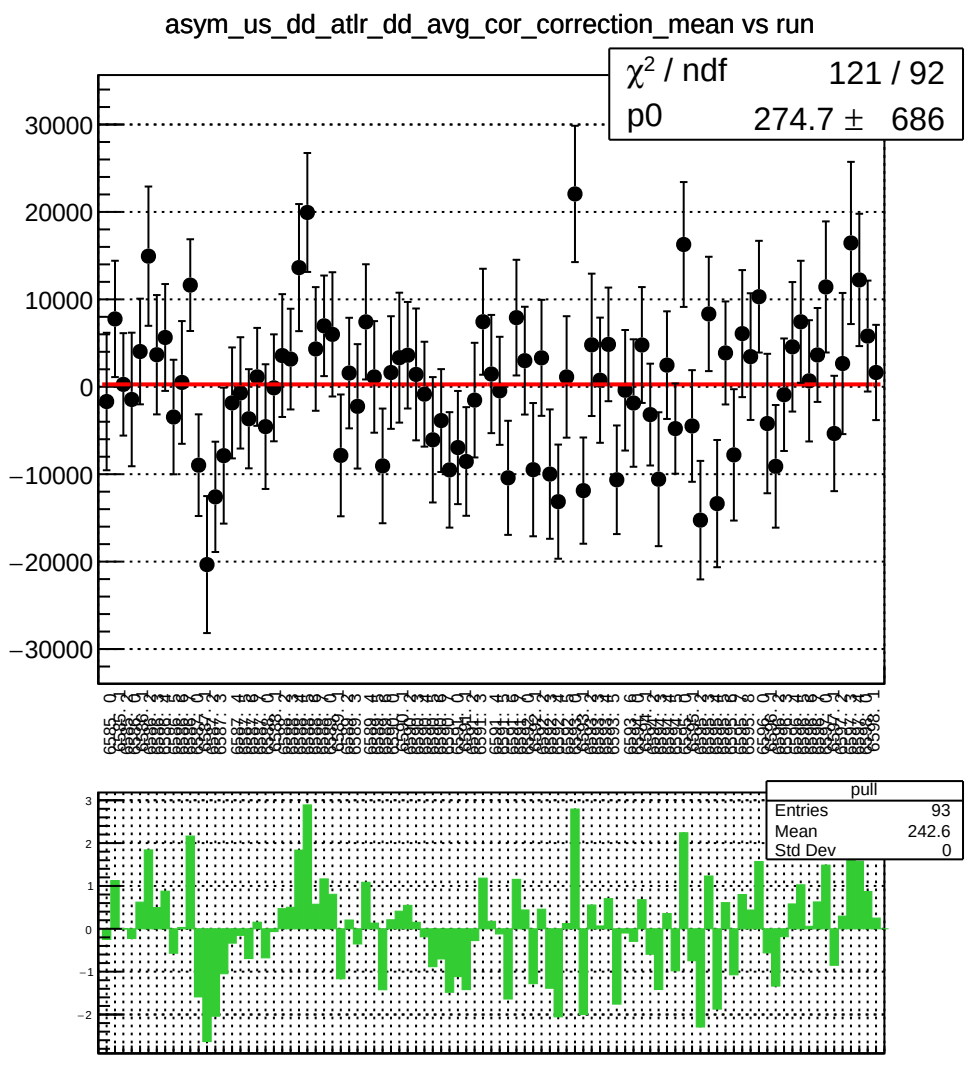

pull1D
Entries 93
Mean 0.006099
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

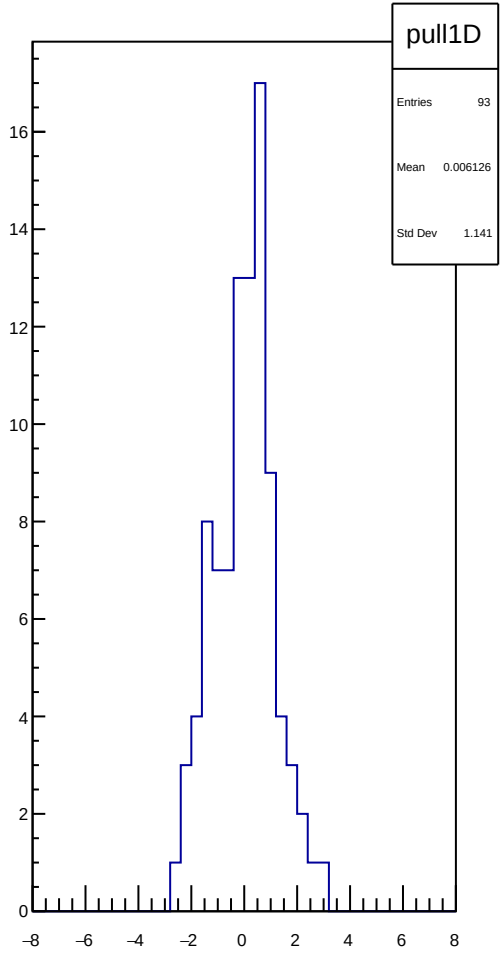

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.568e+04 / 92
p0 642.6 ± 0.4851
900
850
800
750
700
650
600
550
500

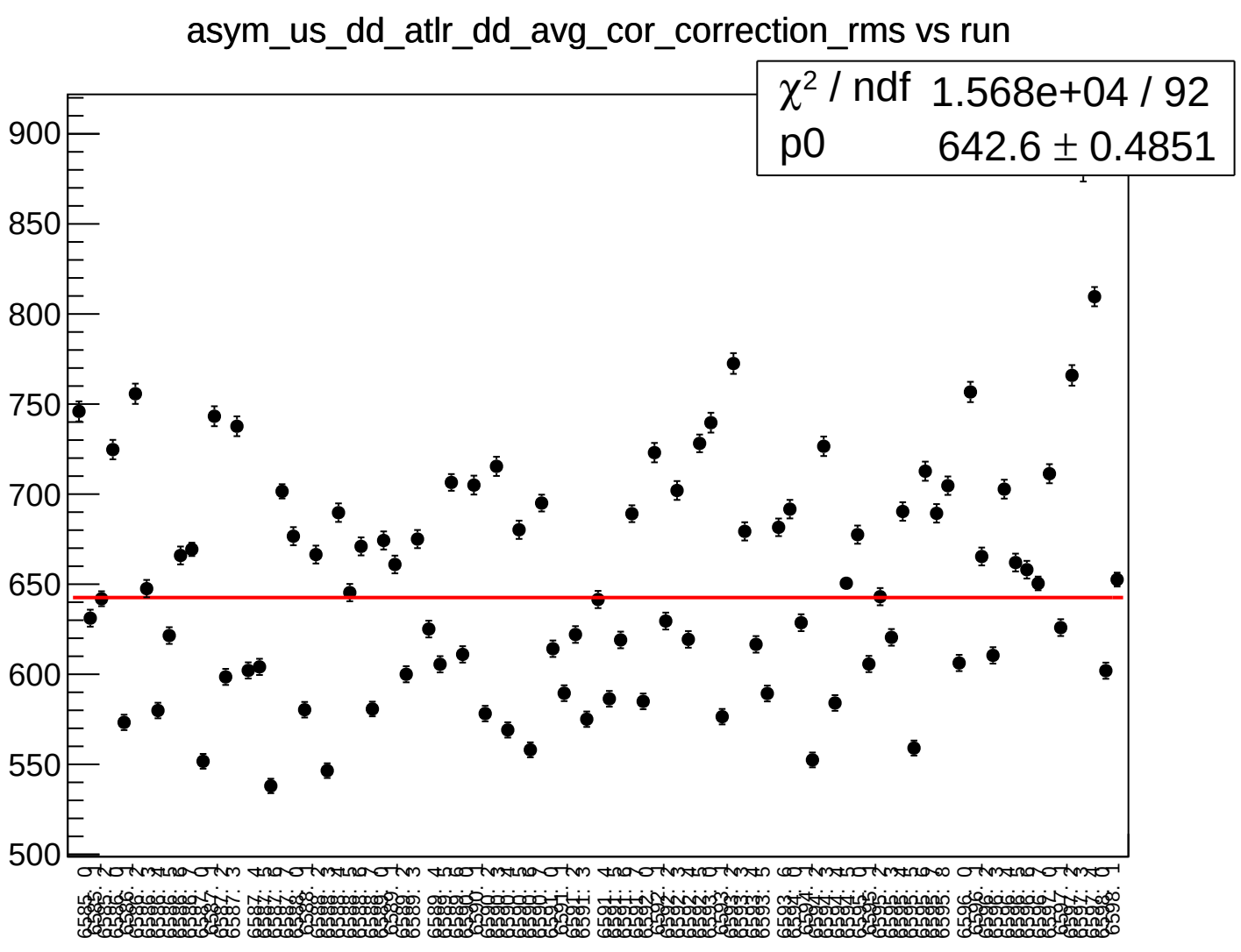

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 70.62 / 92
p0 3414 ± 1943
pull
Entries 93
Mean 1132
Std Dev 0

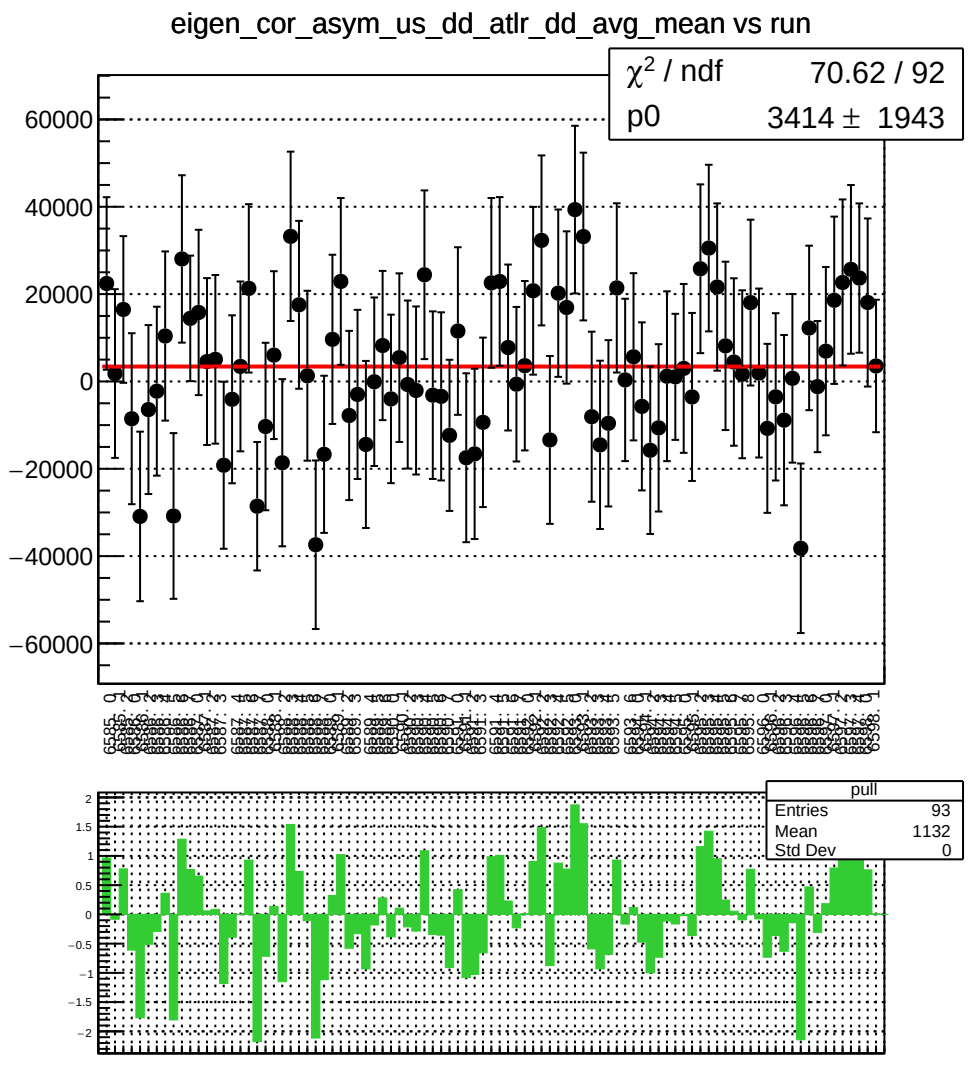

pull1D
Entries 93
Mean 0.00352
Std Dev 0.8714

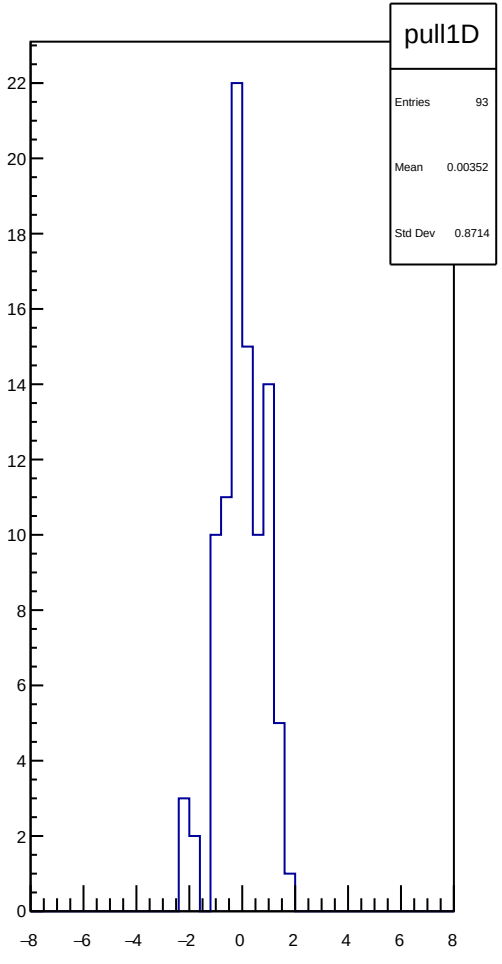

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 95.55 / 92
p0 1828 ± 1.374
1880
1860
1840
1820
1800
1780

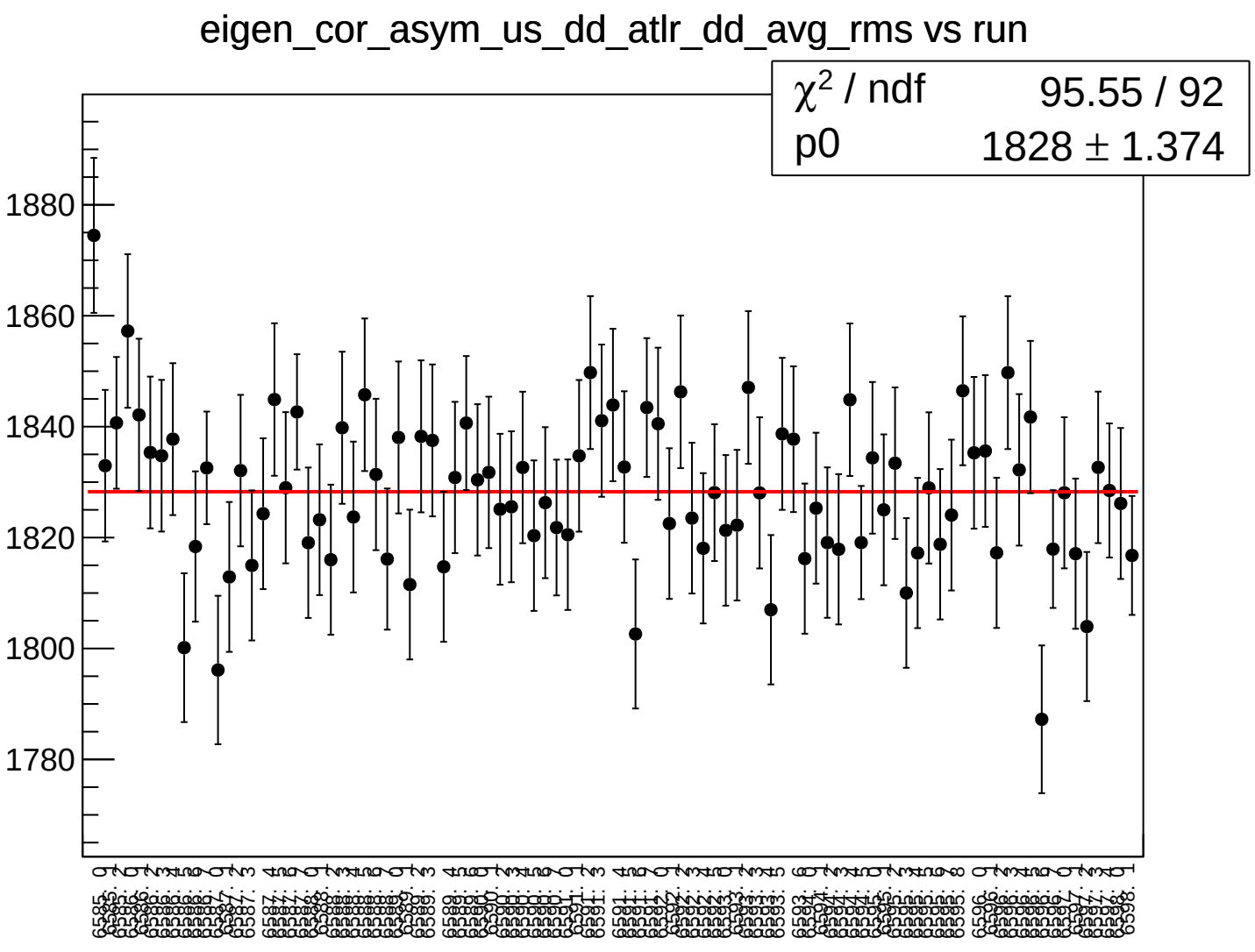

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 121 / 92
p0 274.7 ± 686
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 242.6
Std Dev 0
3
2
1
0
−1
−2

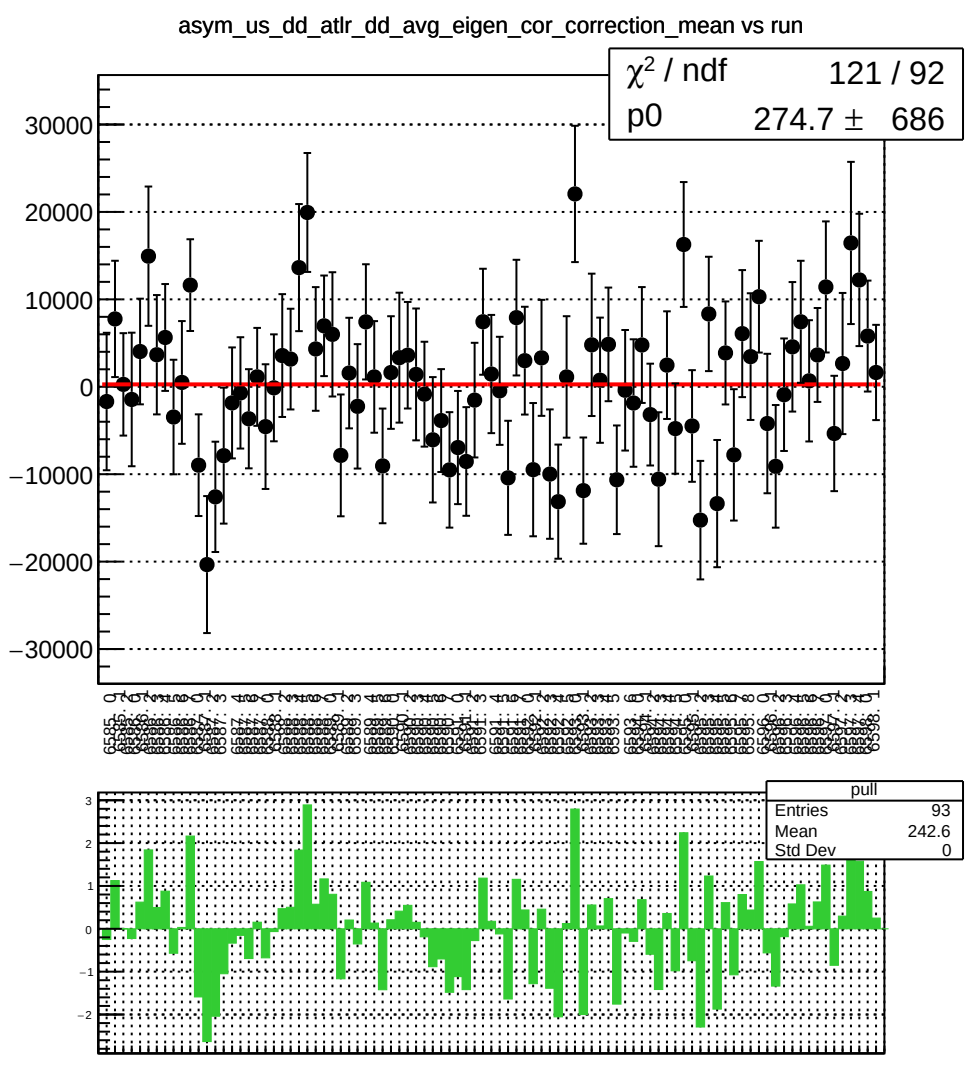

pull1D
Entries 93
Mean 0.006126
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

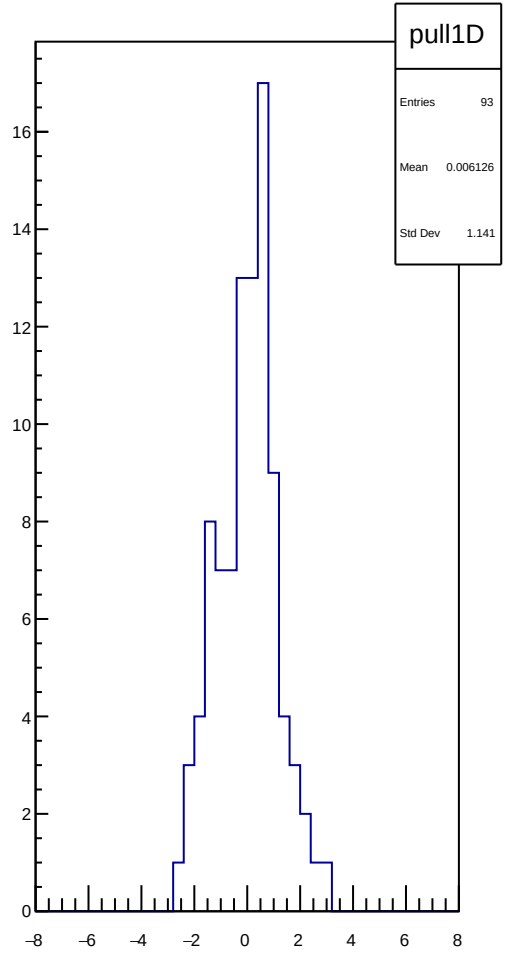

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.568e+04 / 92
p0 642.6 ± 0.4851
900
850
800
750
700
650
600
550
500

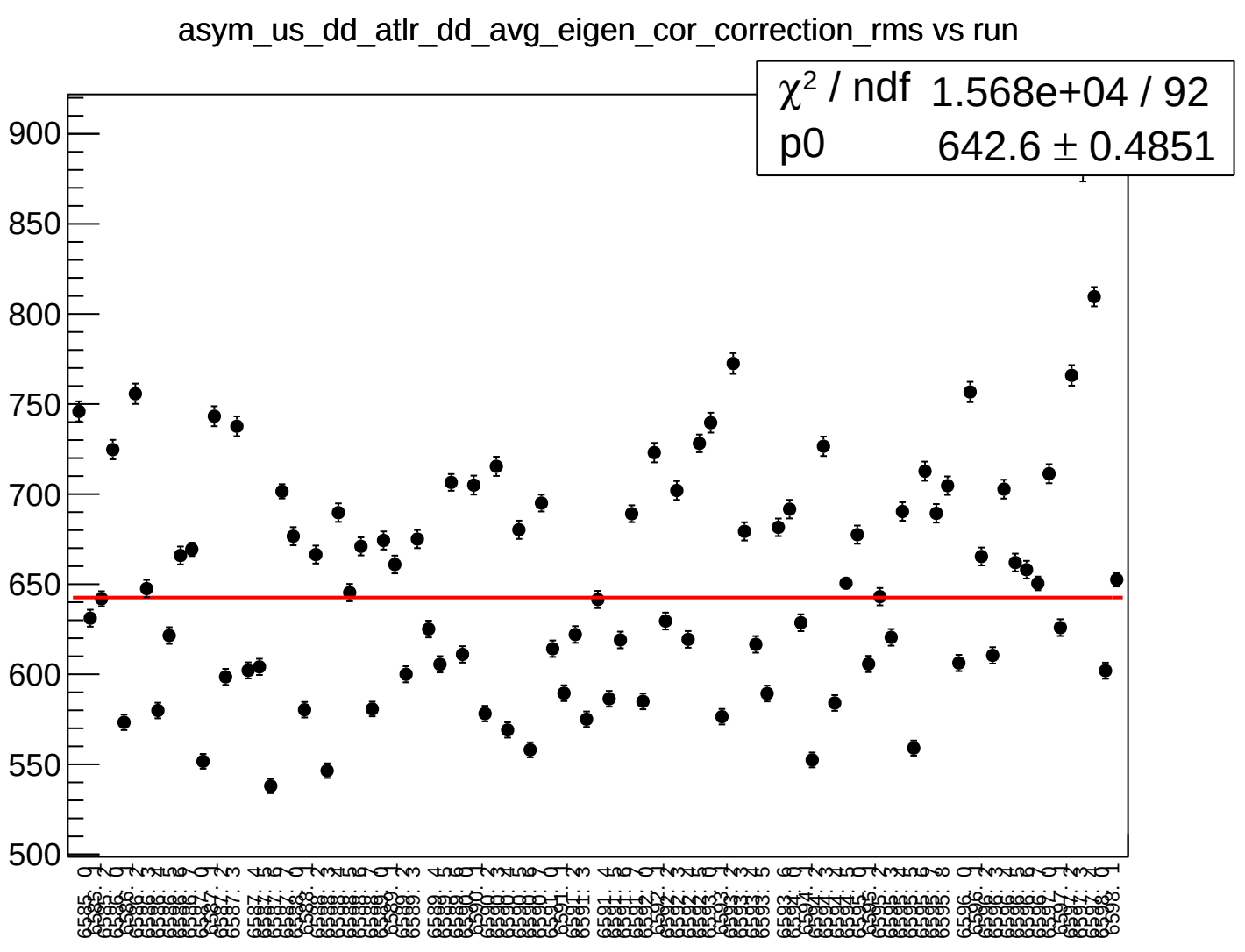

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 70.62 / 92
p0 3414 ± 1943
pull
Entries 93
Mean 1132
Std Dev 0

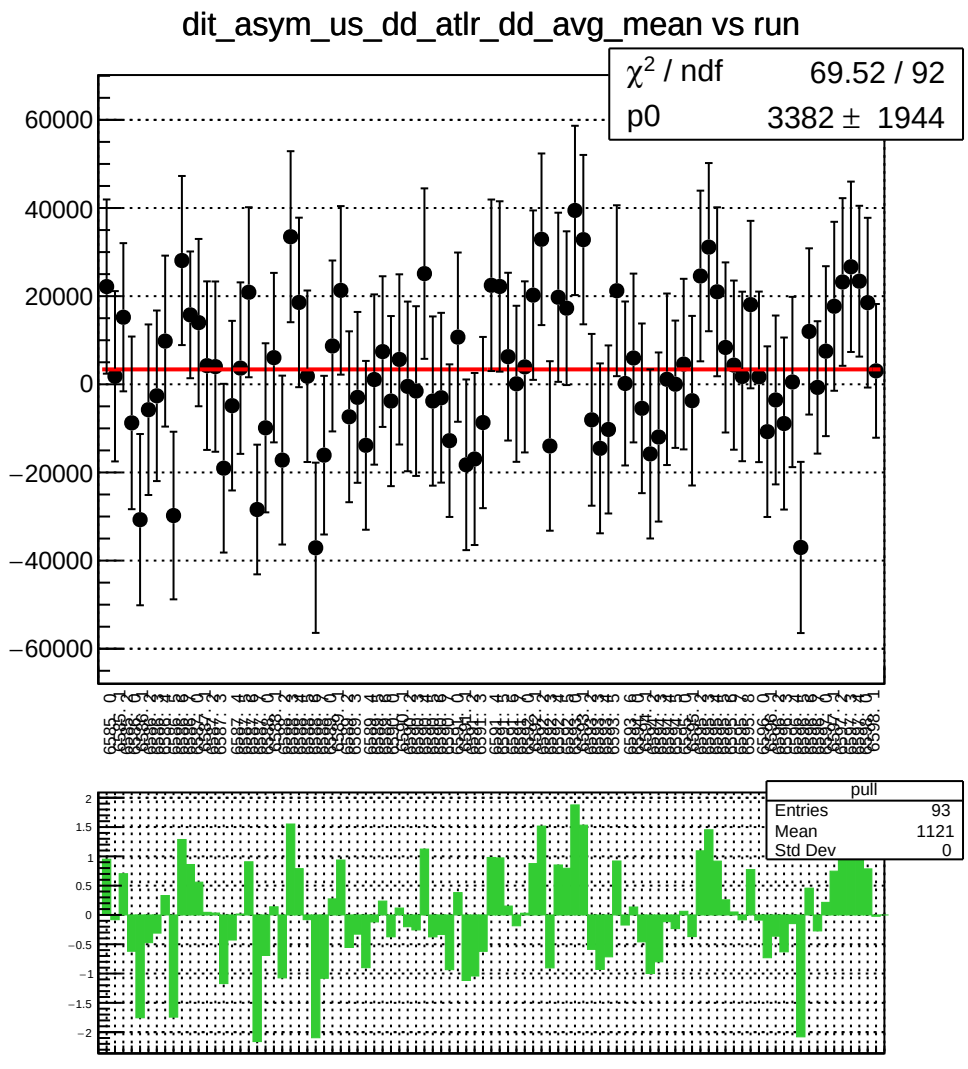

pull1D
Entries 93
Mean 0.00352
Std Dev 0.8714

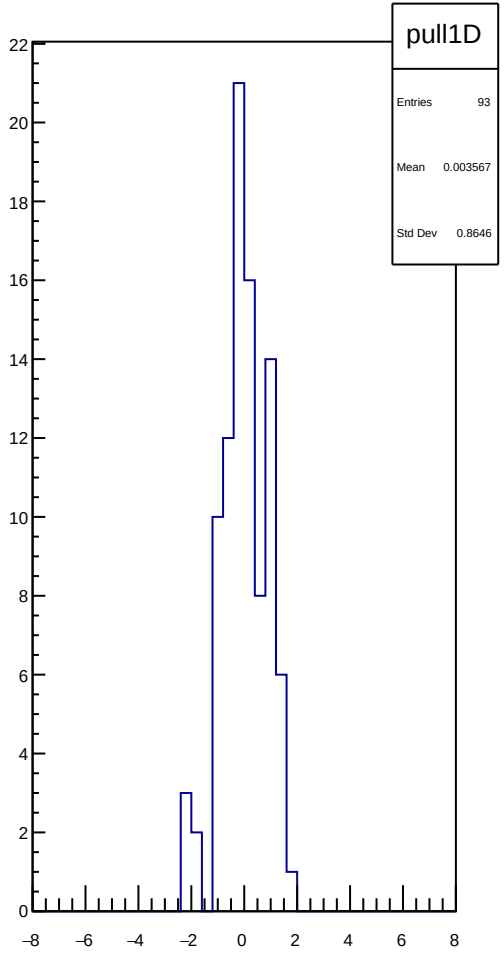

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 95.55 / 92
p0 1828 ± 1.374
1880
1860
1840
1820
1800
1780

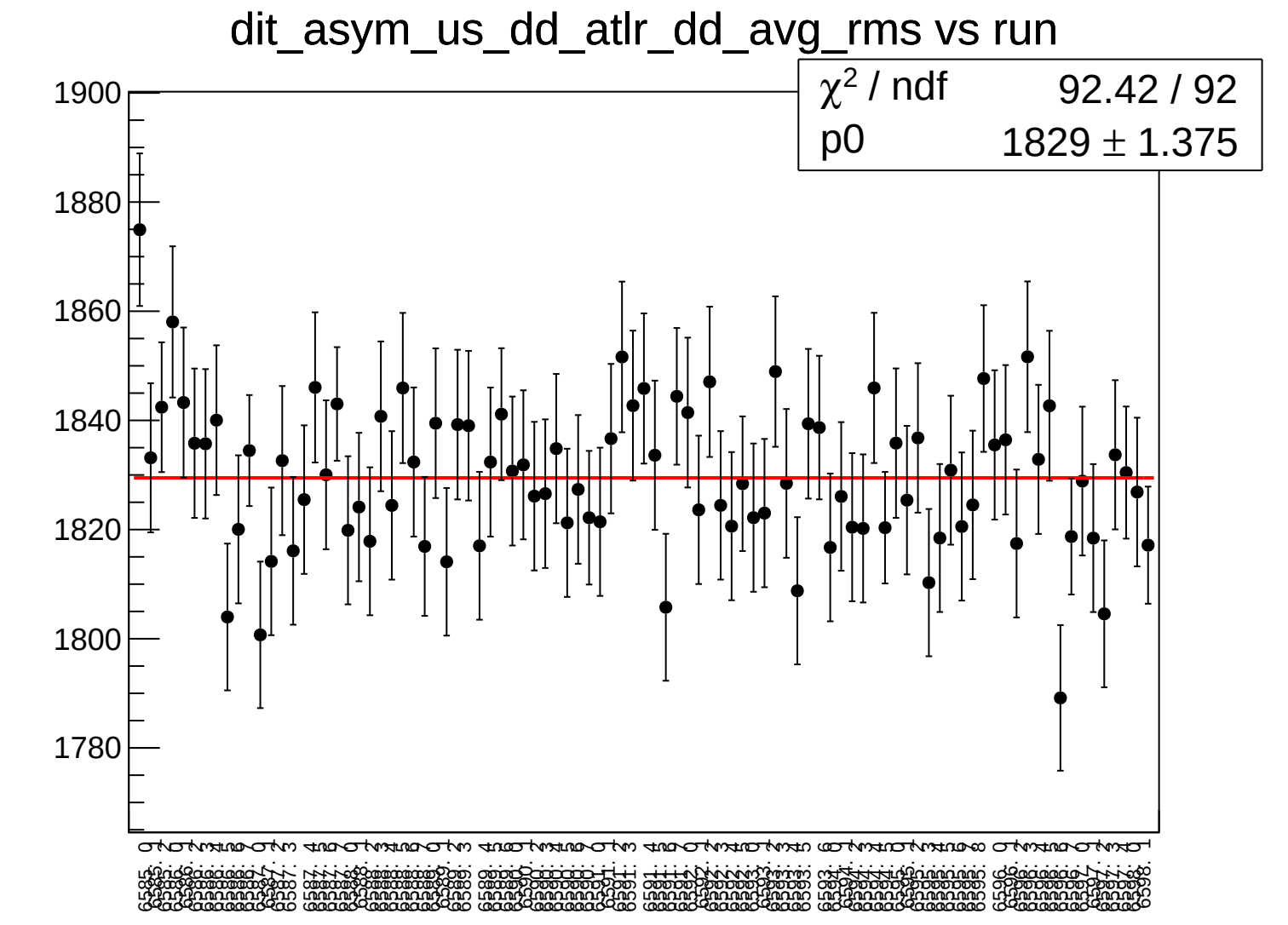

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 121 / 92
p0 274.7 ± 686
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 242.6
Std Dev 0
3
2
1
0
−1
−2

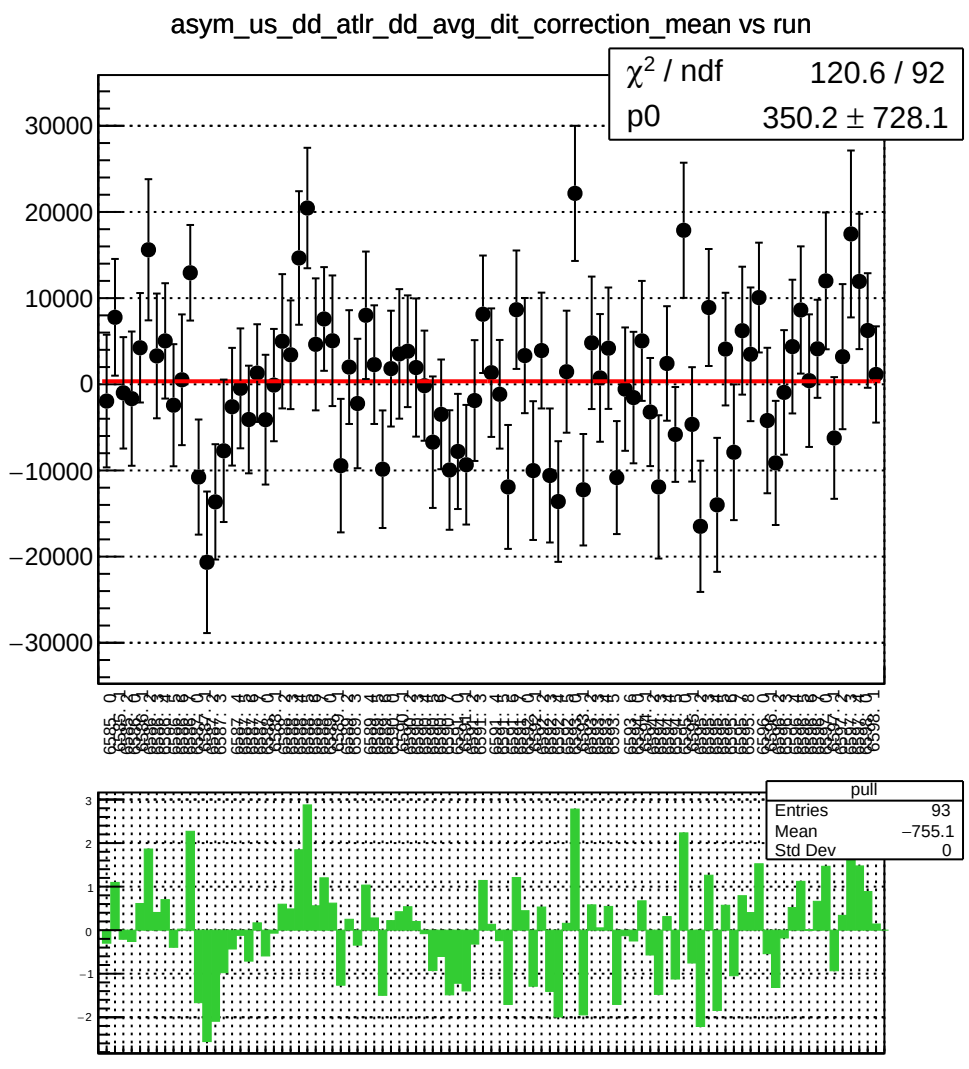

pull1D
Entries 93
Mean 0.006126
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

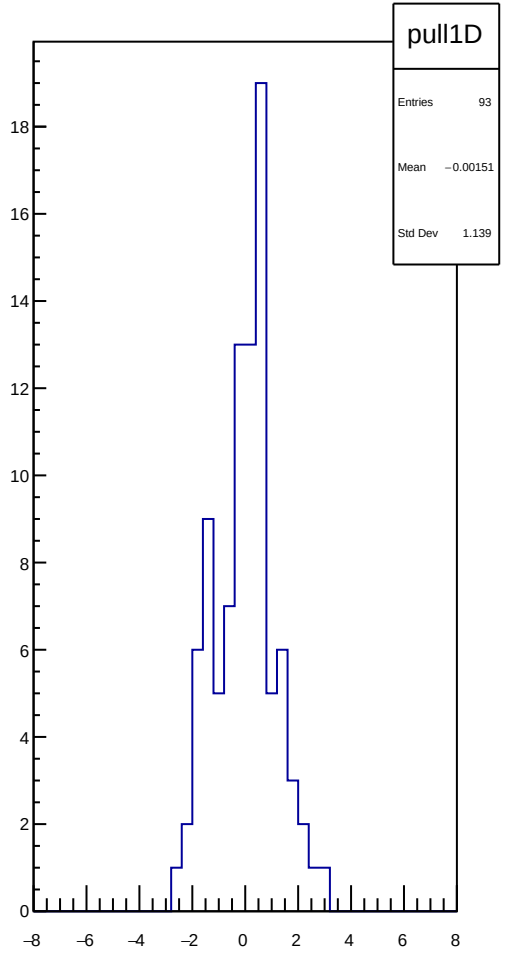

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.568e+04 / 92
p0 642.6 ± 0.4851
900
850
800
750
700
650
600
550
500

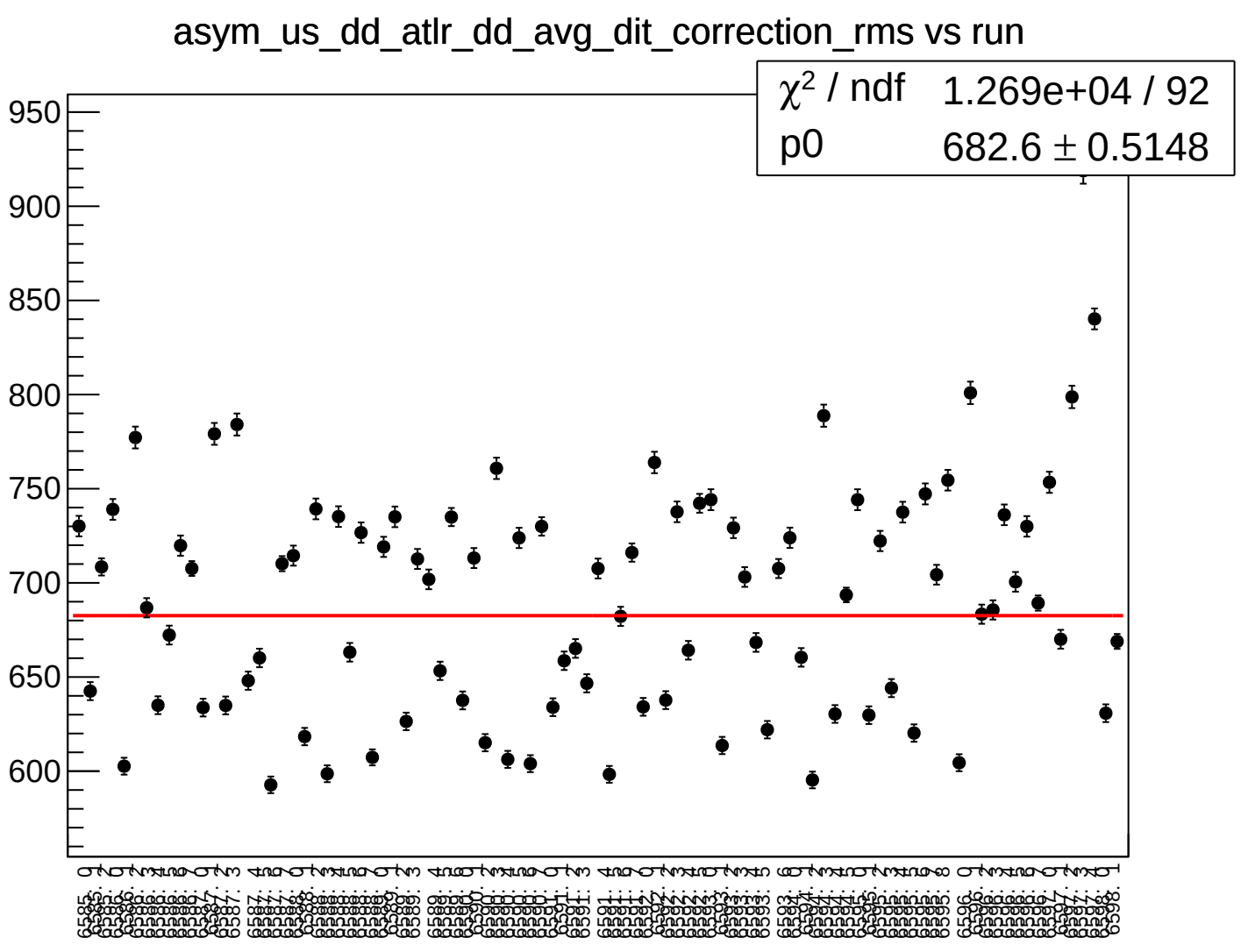

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 69.52 / 92
p0 3382 ± 1944
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1121
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

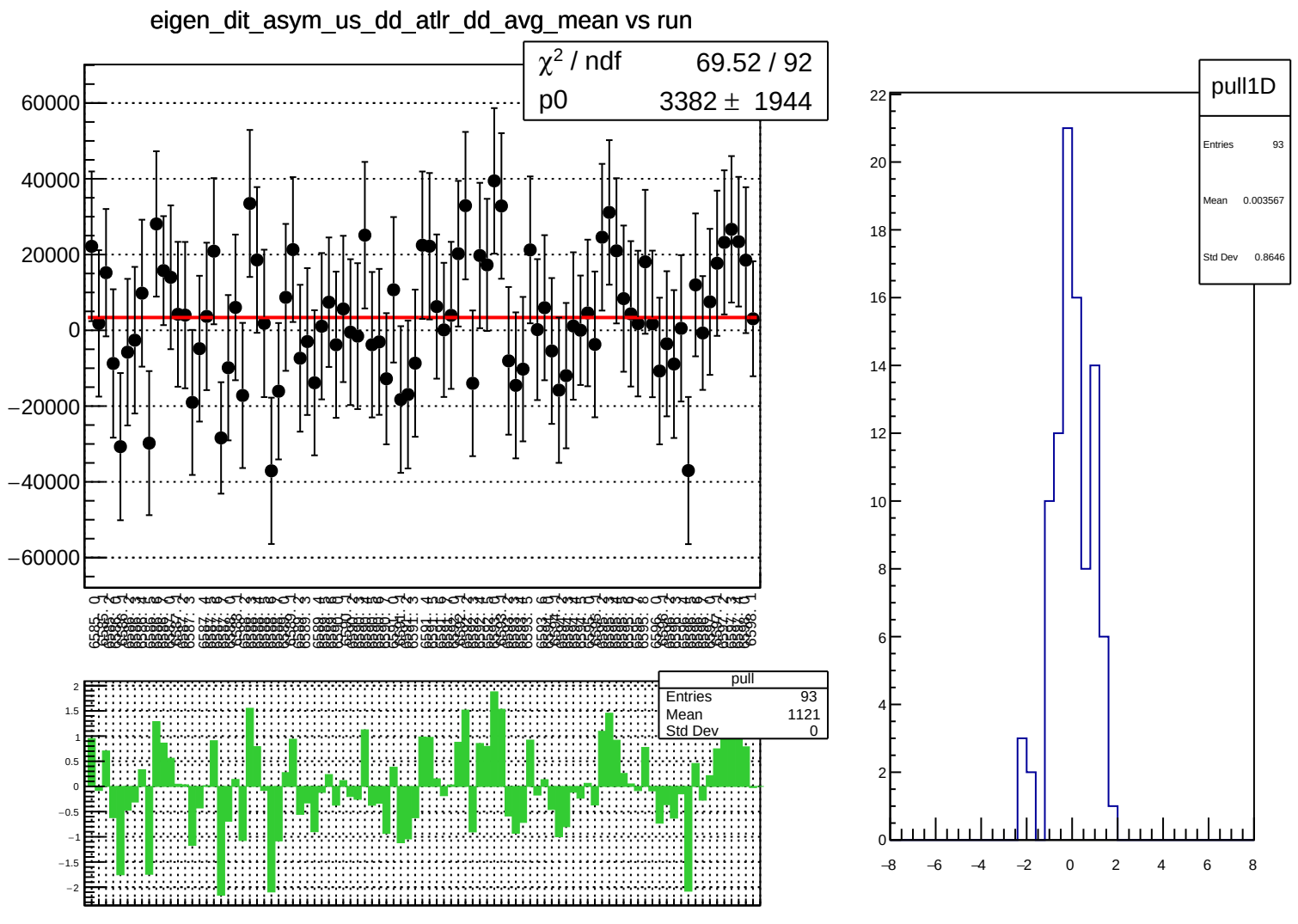

pull1D
Entries 93
Mean 0.003567
Std Dev 0.8646
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

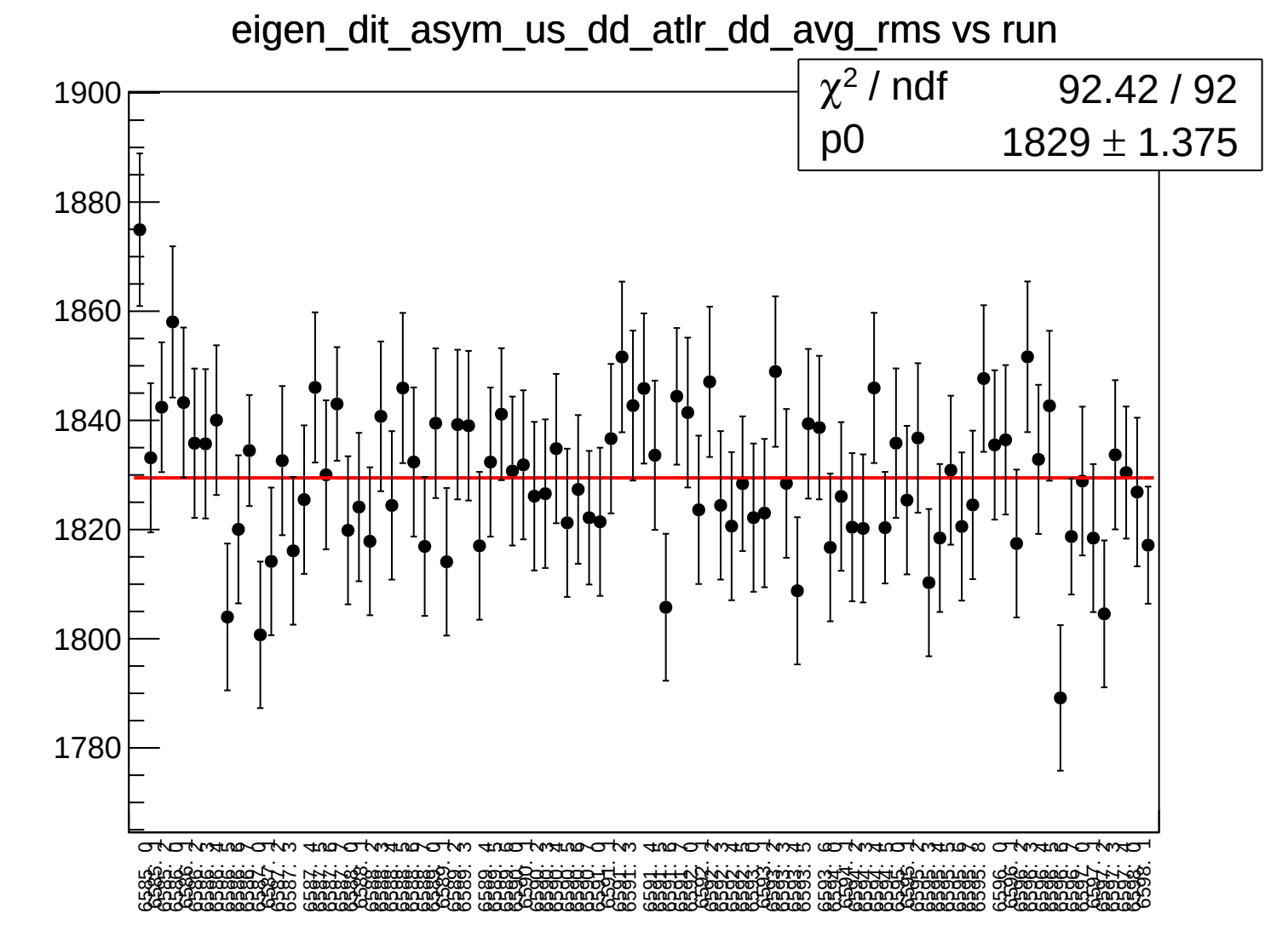

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 92.42 / 92
p0 1829 ± 1.375
1900
1880
1860
1840
1820
1800
1780

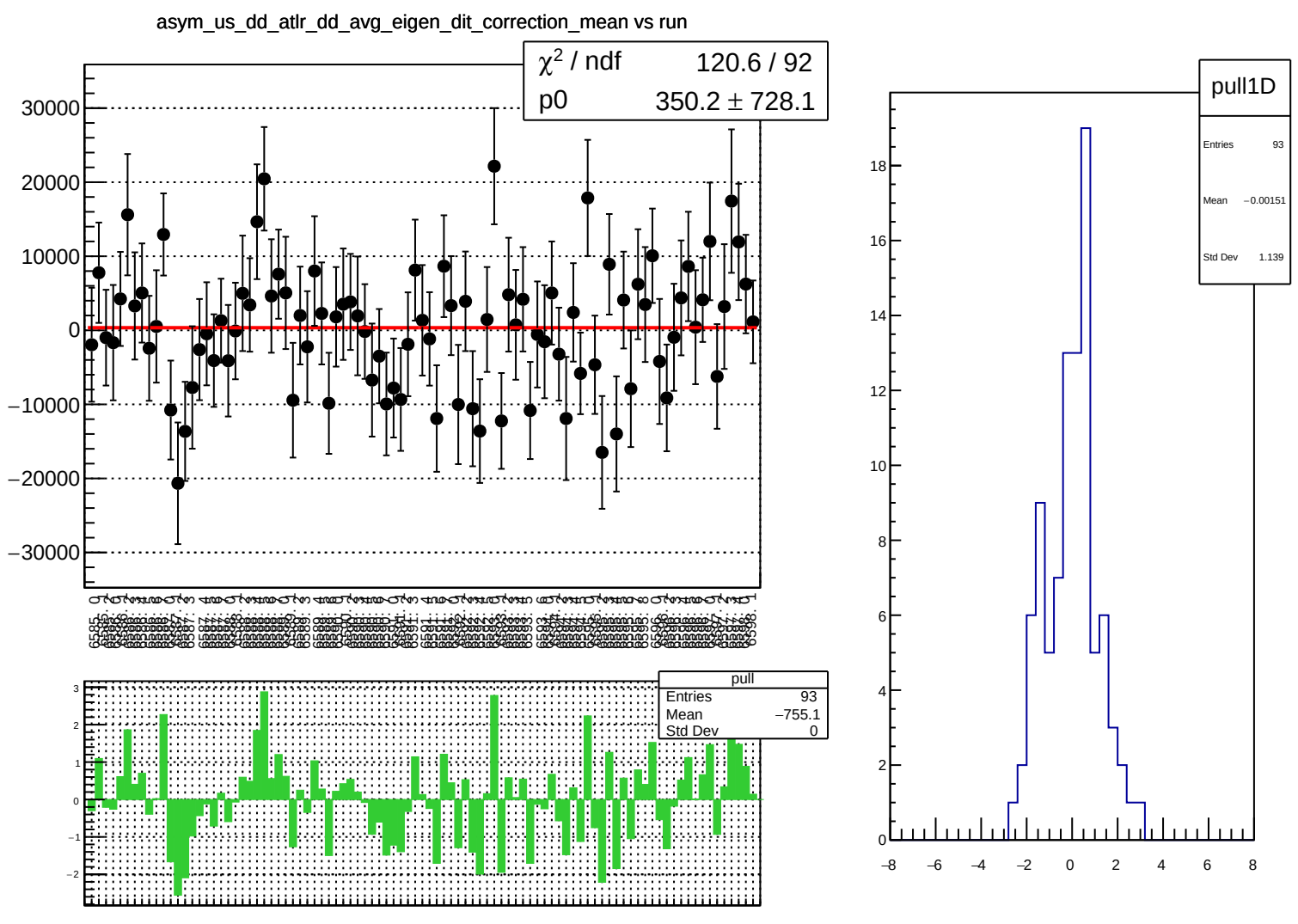

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 120.6 / 92
p0 350.2 ± 728.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −755.1
Std Dev 0
3
2
1
0
−1
−2

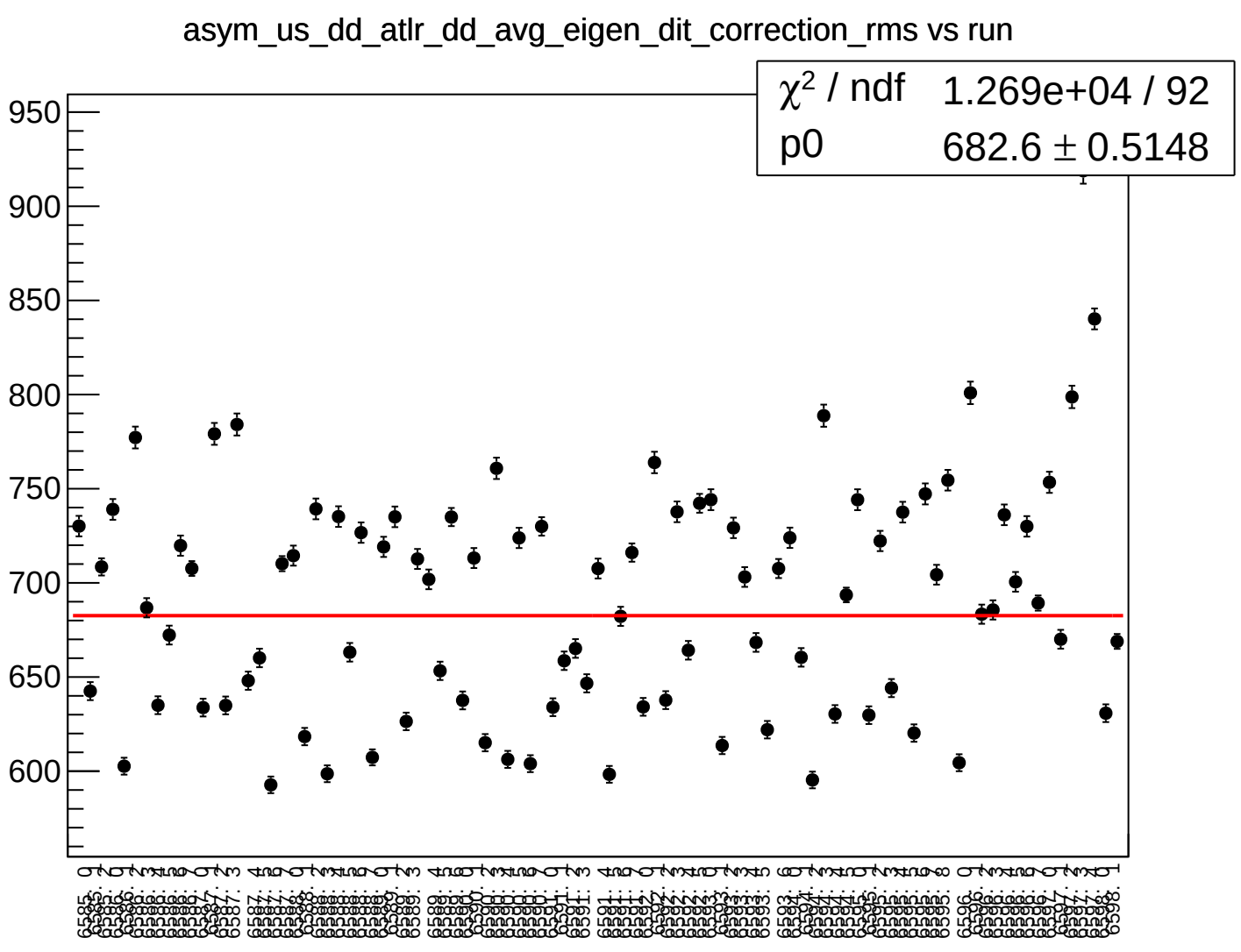

pull1D
Entries 93
Mean −0.00151
Std Dev 1.139
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

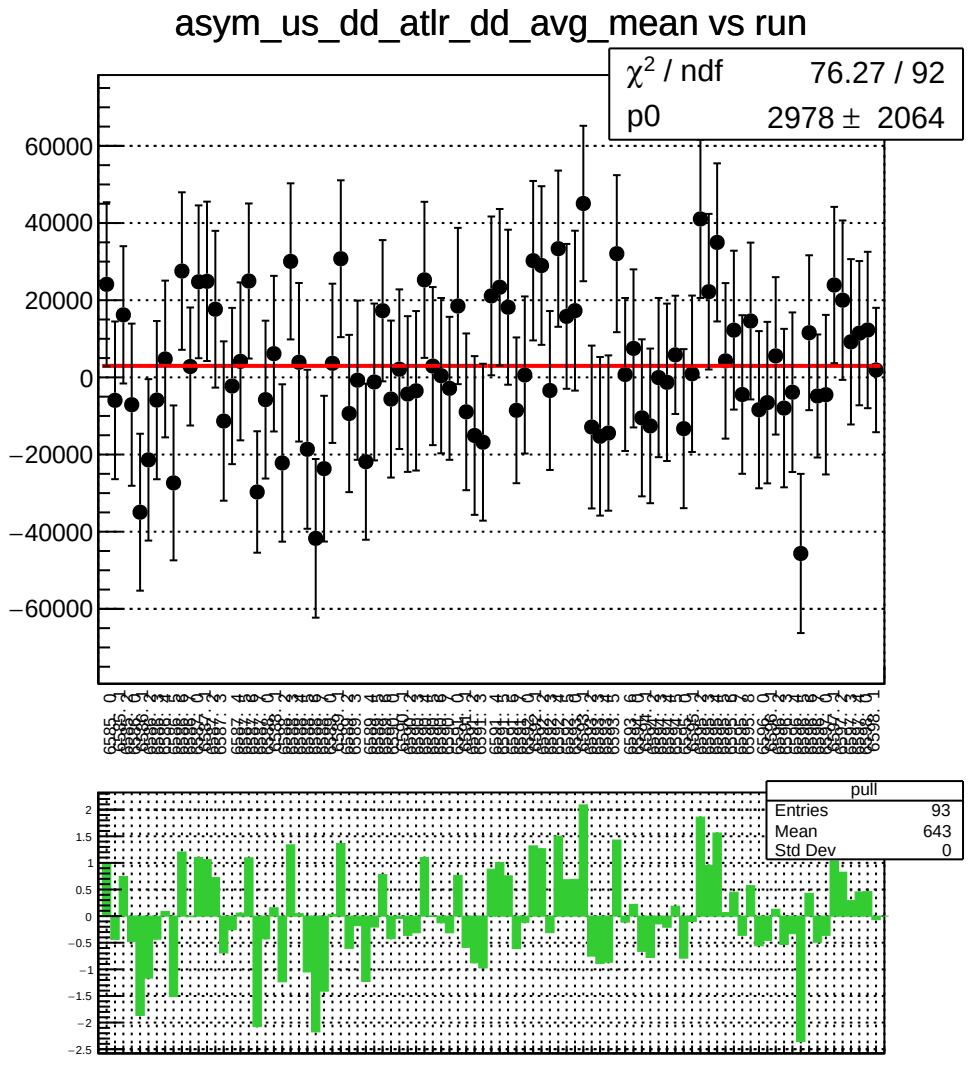

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.269e+04 / 92
p0 682.6 ± 0.5148
950
900
850
800
750
700
650
600

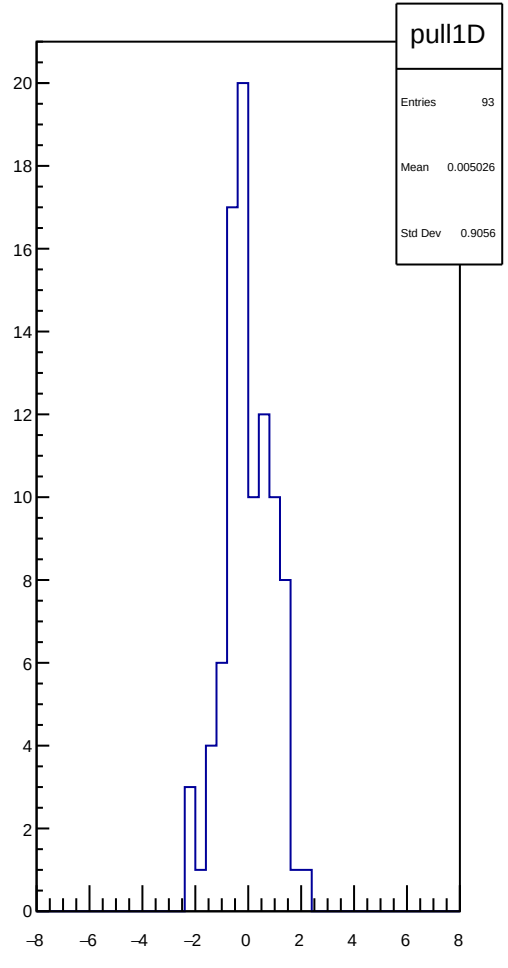

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 69.52 / 92
p0 3382 ± 1944
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1121
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.003567
Std Dev 0.8646
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

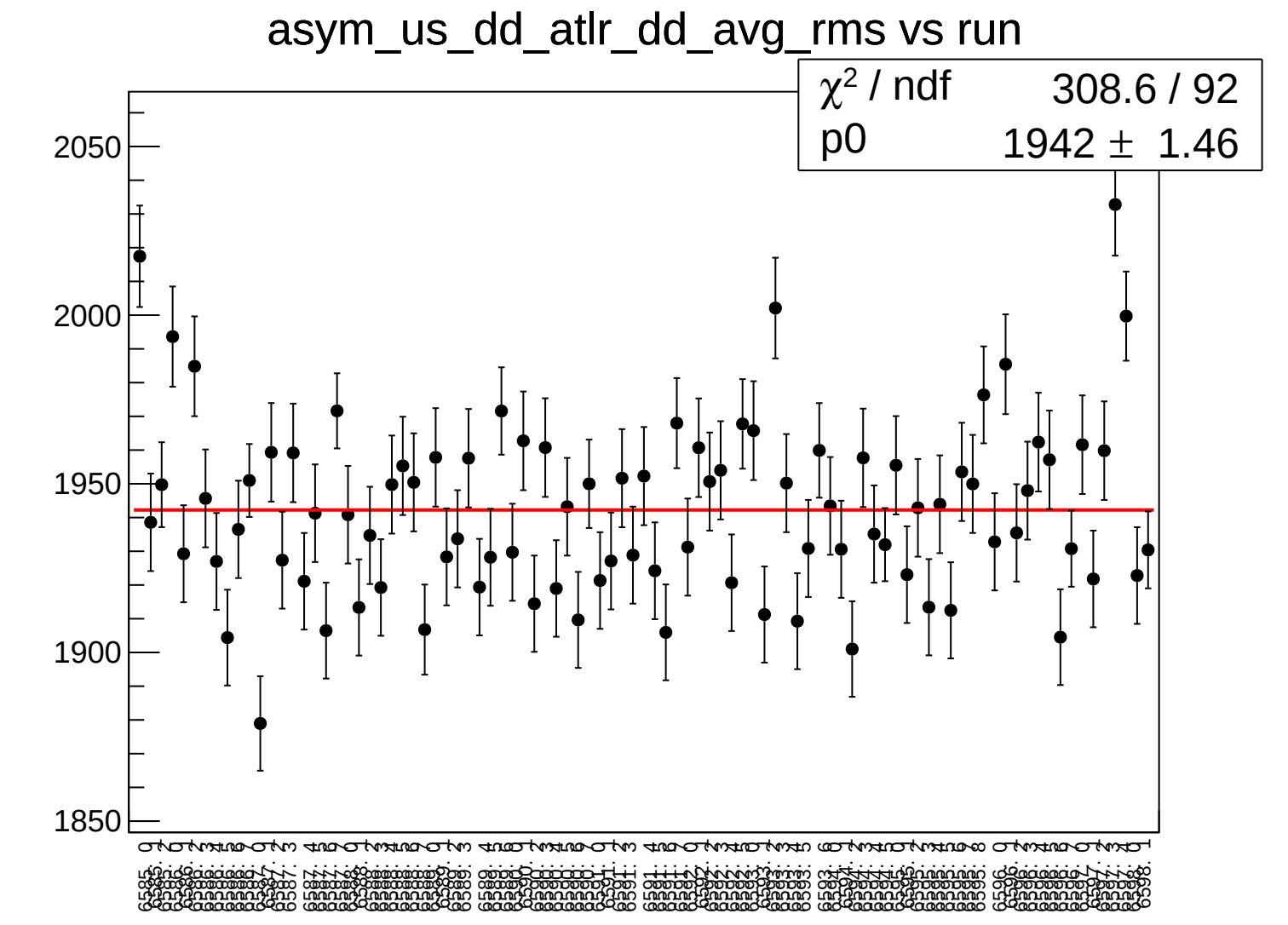

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 92.42 / 92
p0 1829 ± 1.375
1900
1880
1860
1840
1820
1800
1780

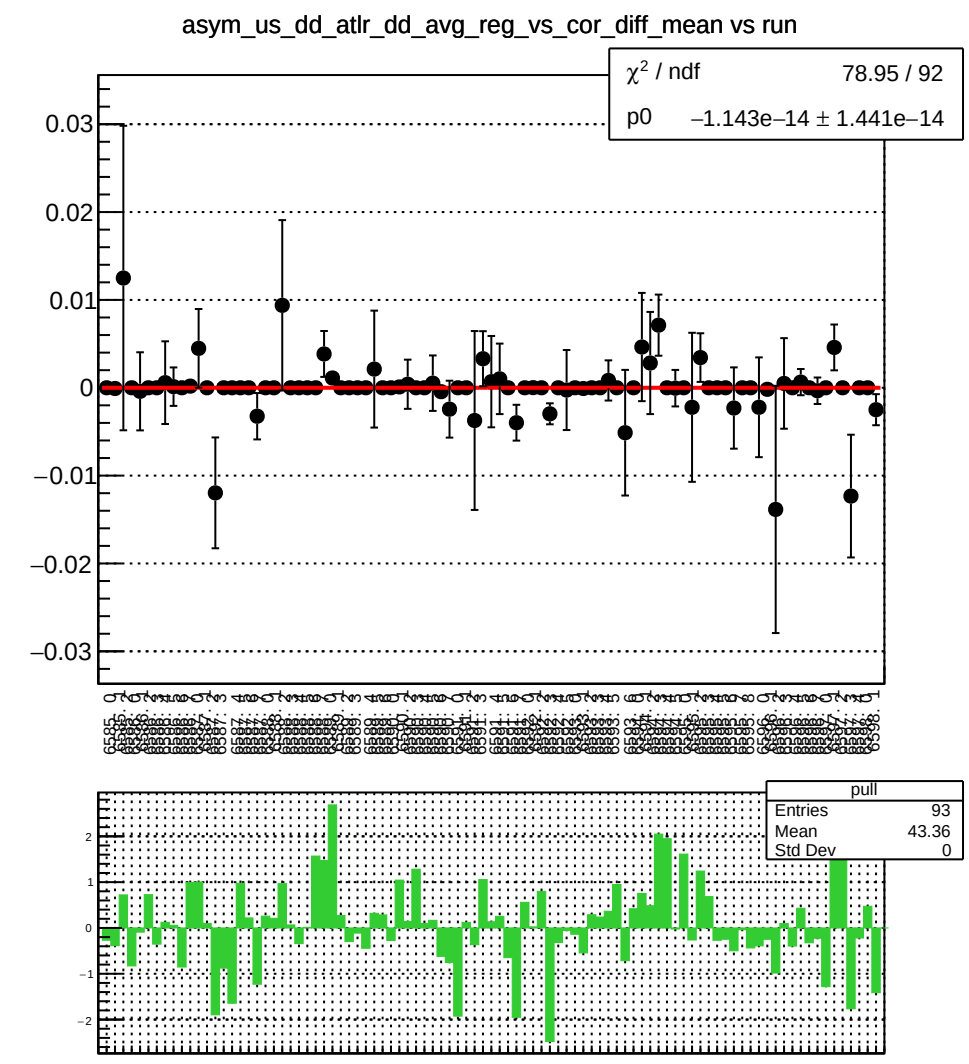

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ^2 / ndf 120.6 / 92
p0 350.2 ± 728.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −755.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.00151
Std Dev 1.139
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

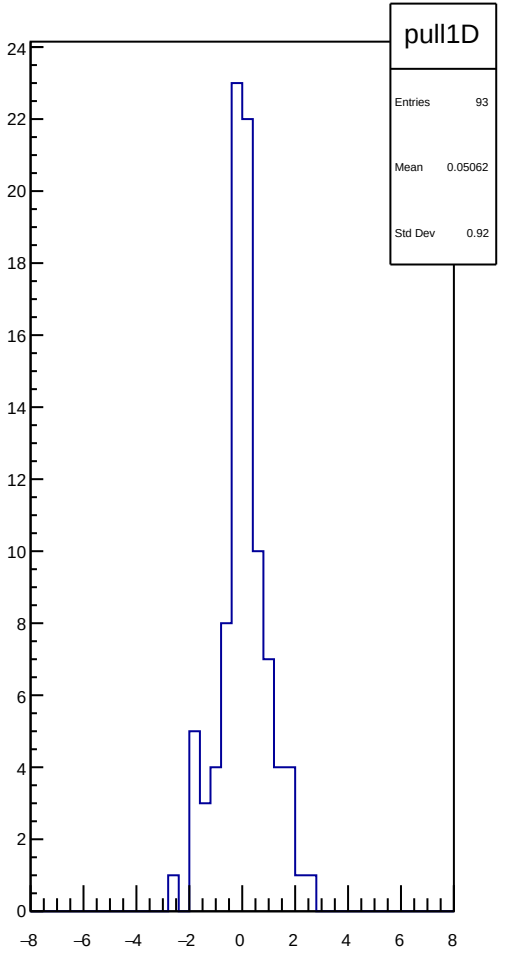

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.269e+04 / 92
p0 682.6 ± 0.5148
950
900
850
800
750
700
650
600

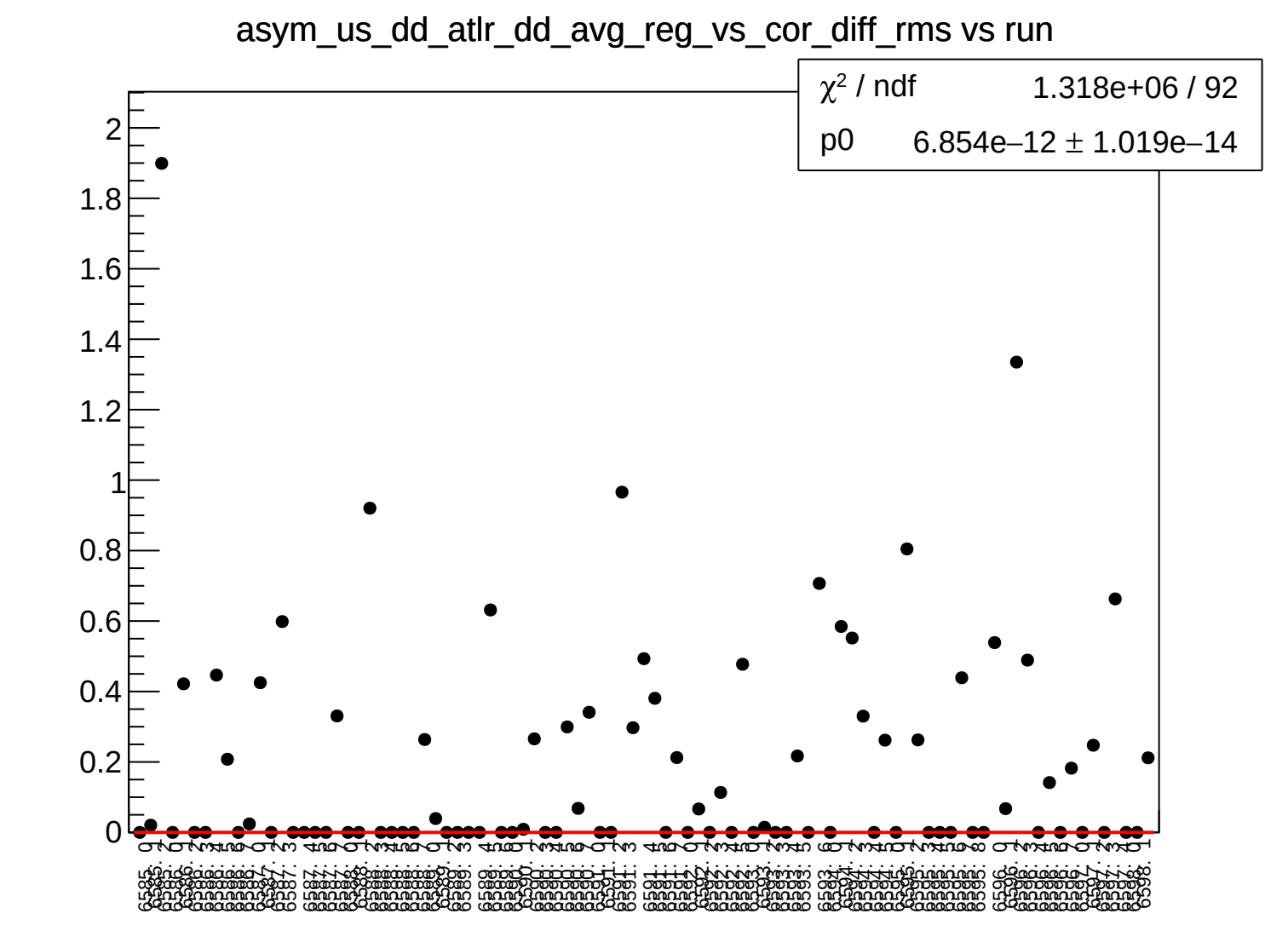

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 76.27 / 92
p0 2978 ± 2064
pull
Entries 93
Mean 643
Std Dev 0

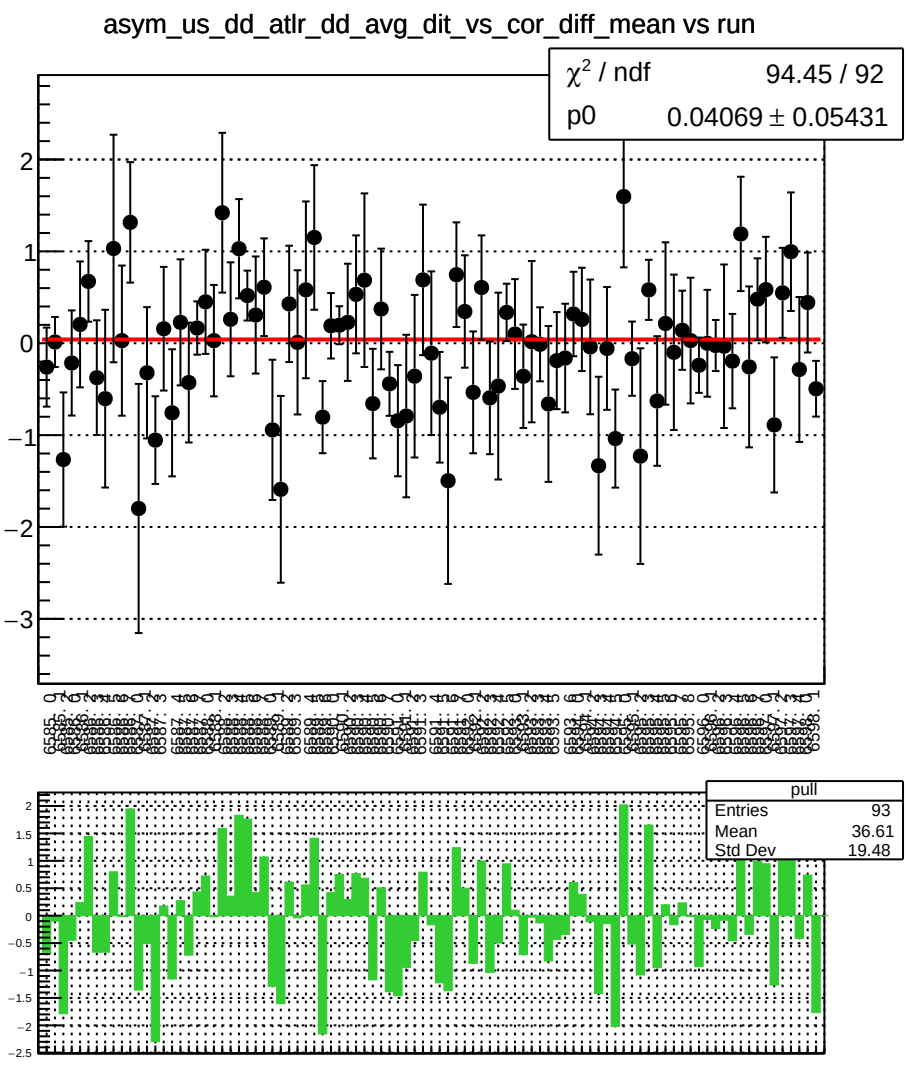

pull1D
Entries 93
Mean 0.005026
Std Dev 0.9056

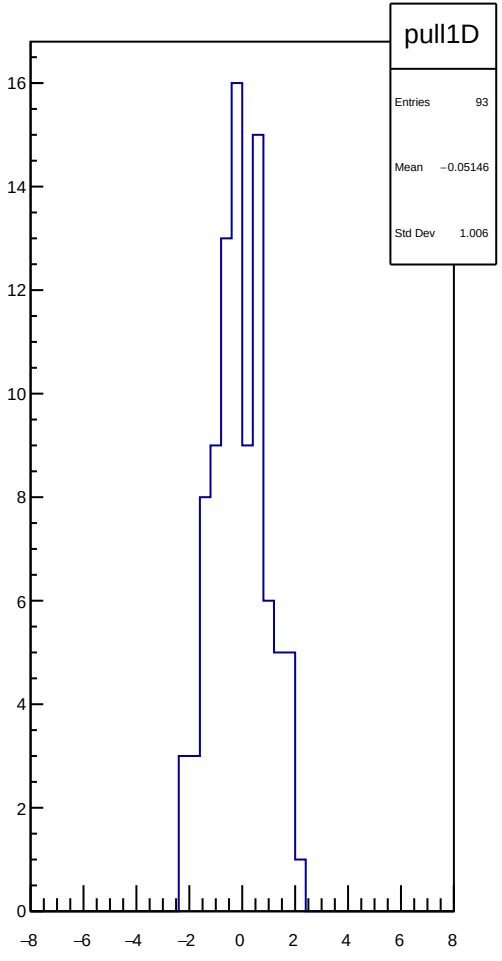

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 308.6 / 92
p0 1942 ± 1.46
2050
2000
1950
1900
1850

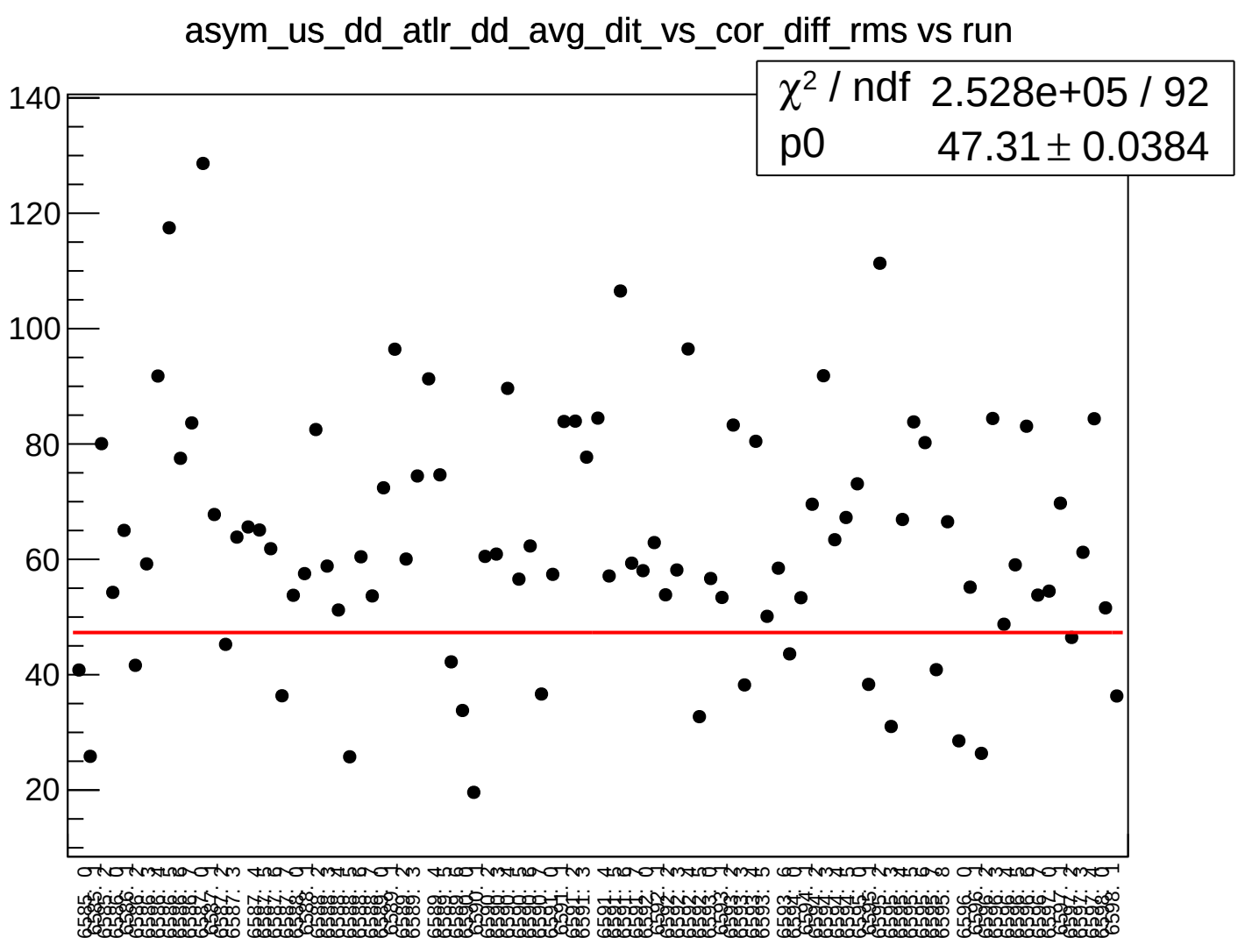

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.95 / 92
p0 −1.143e−14 ± 1.441e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 43.36
Std Dev 0
2
1
0
−1
−2

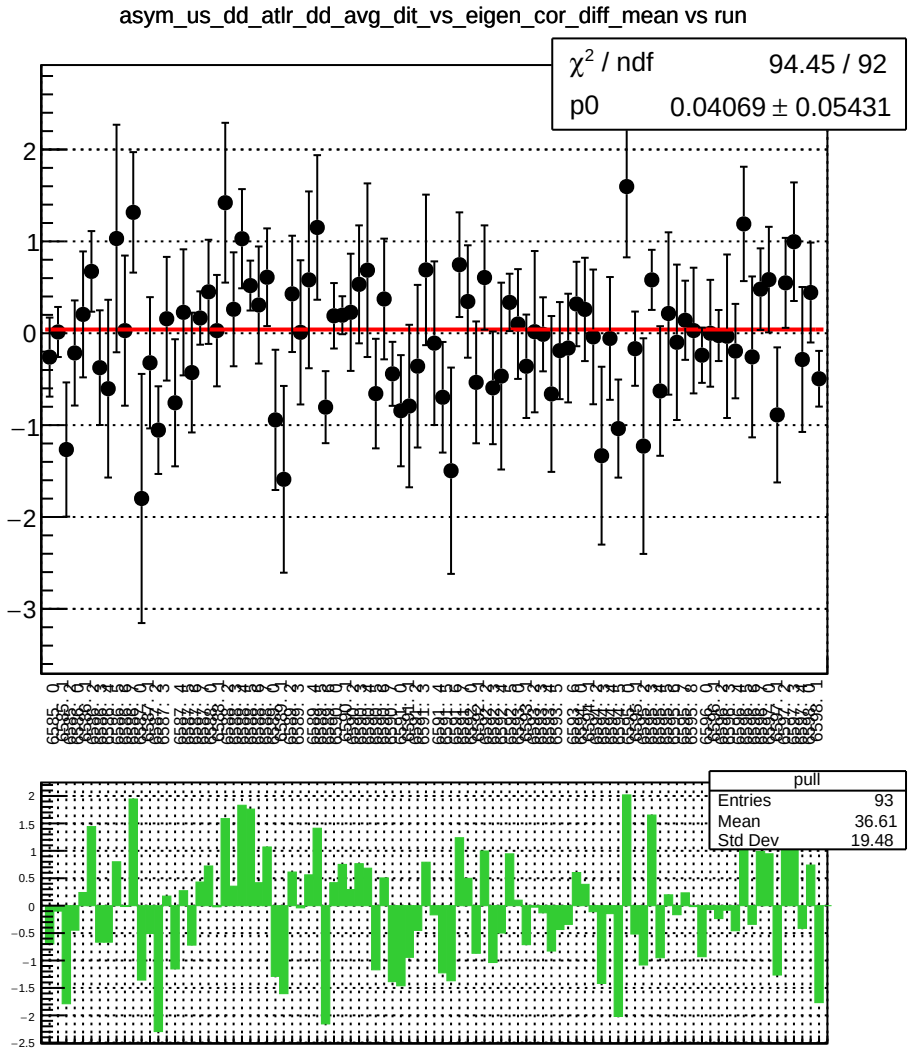

pull1D
Entries 93
Mean 0.05062
Std Dev 0.92
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

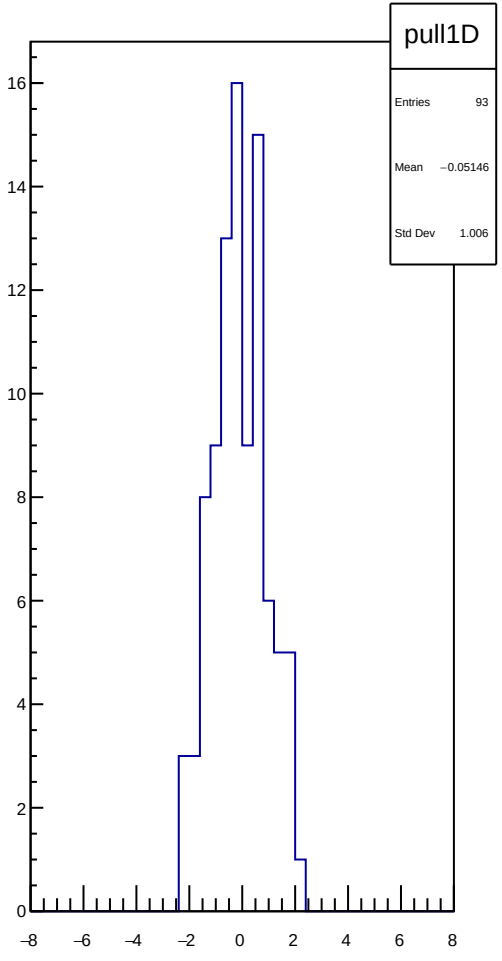

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.318e+06 / 92
p0 6.854e−12 ± 1.019e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

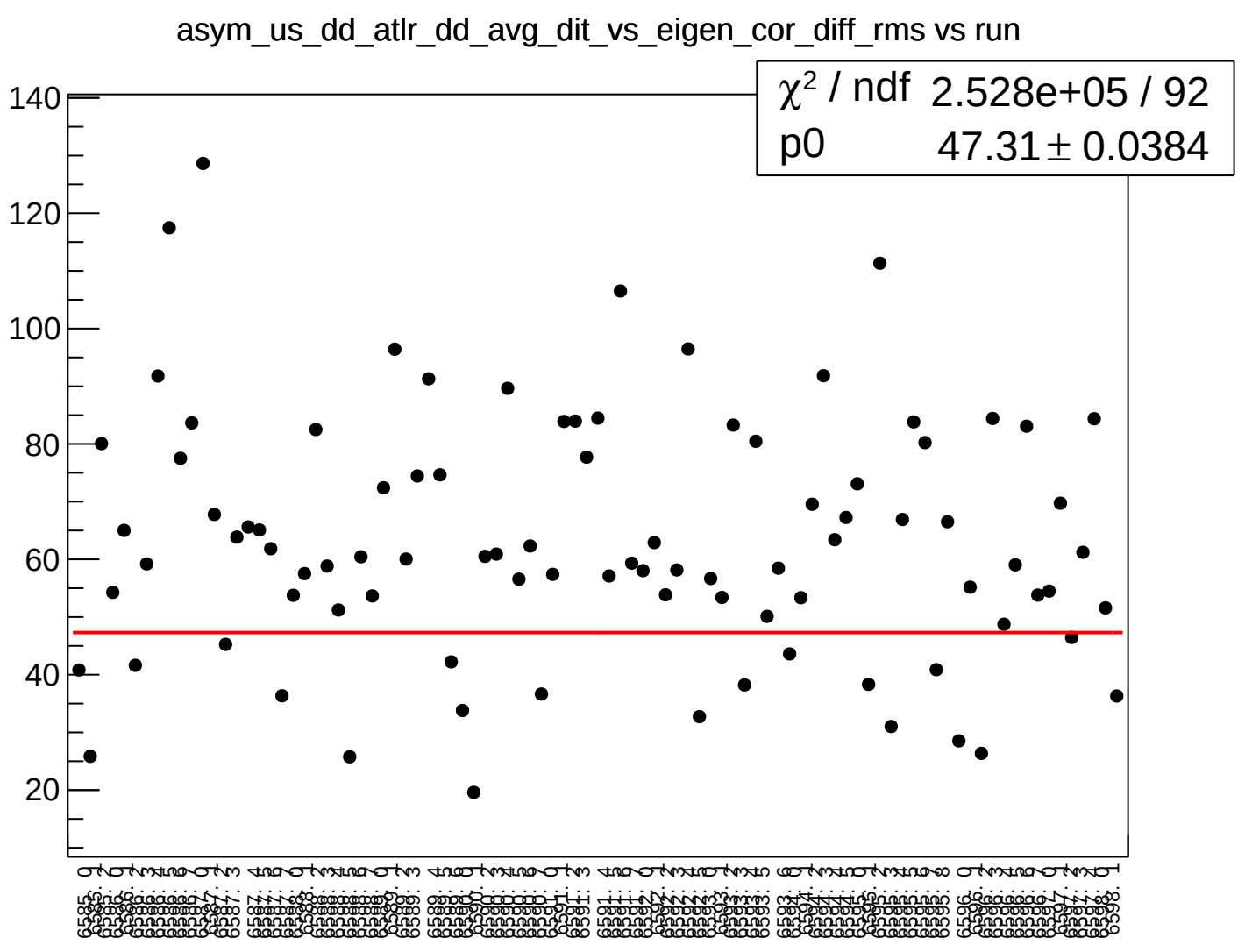

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.45 / 92
p0 0.04069 ± 0.05431
pull
Entries 93
Mean 36.61
Std Dev 19.48

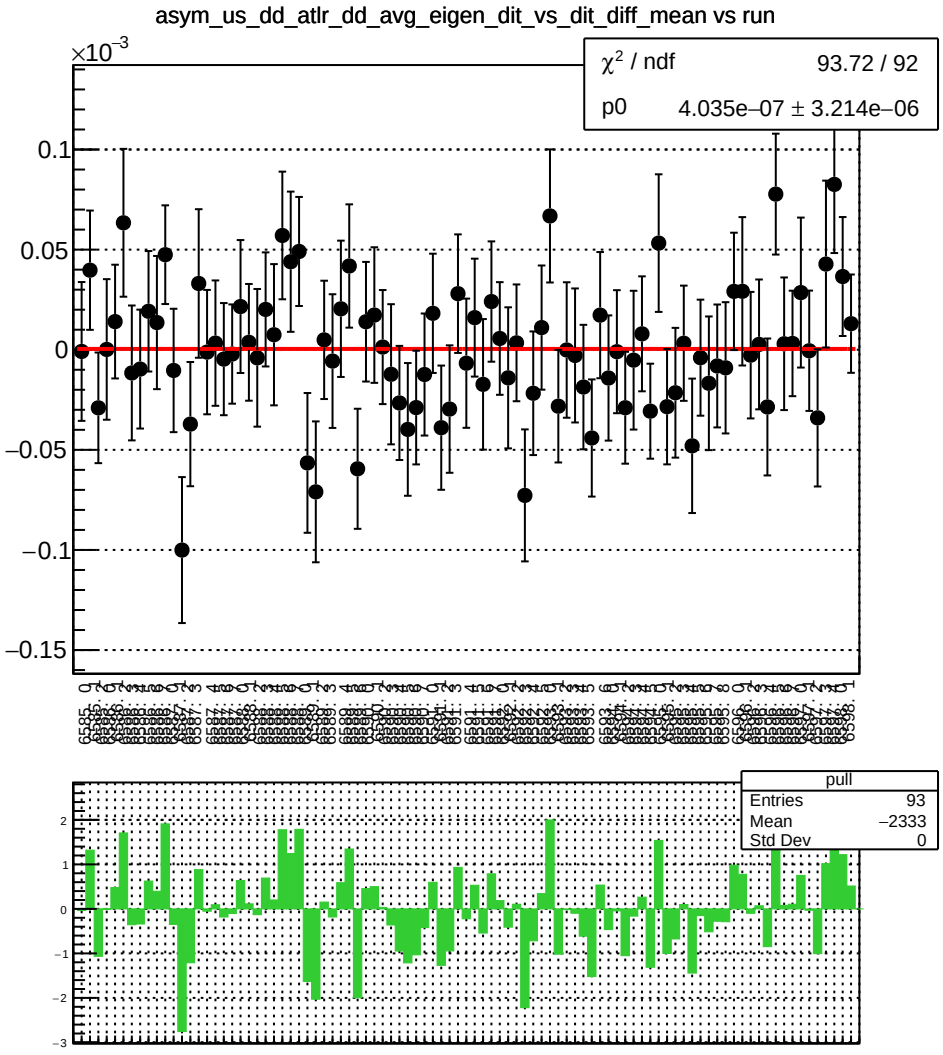

pull1D
Entries 93
Mean −0.05146
Std Dev 1.006

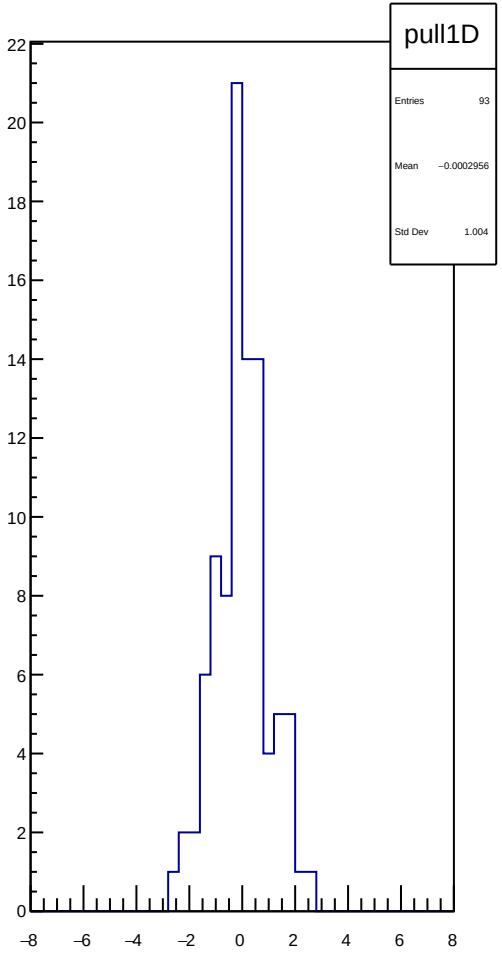

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.528e+05 / 92
p0 47.31 ± 0.0384
140
120
100
80
60
40
20

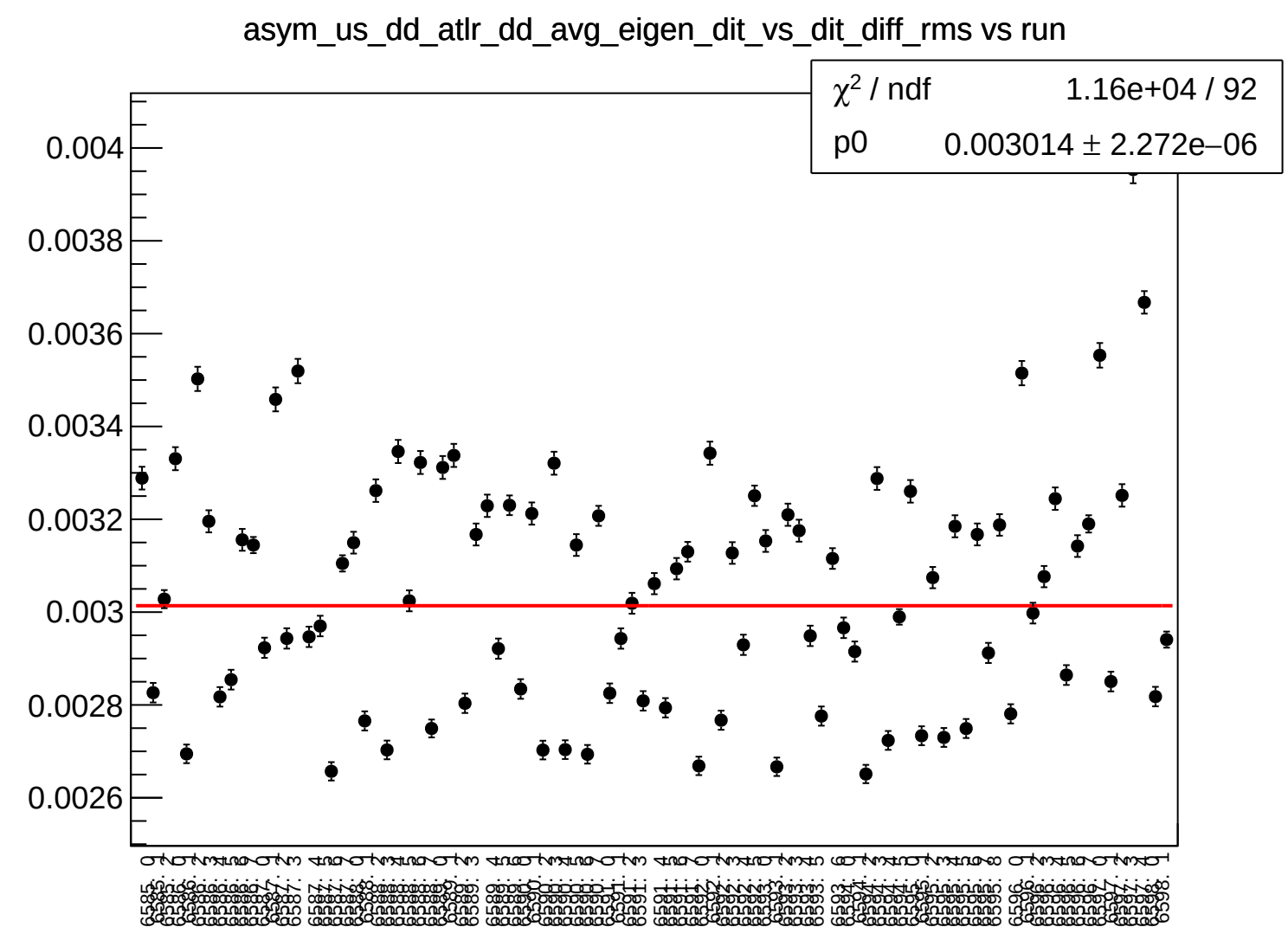

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.45 / 92
p0 0.04069 ± 0.05431
pull
Entries 93
Mean 36.61
Std Dev 19.48

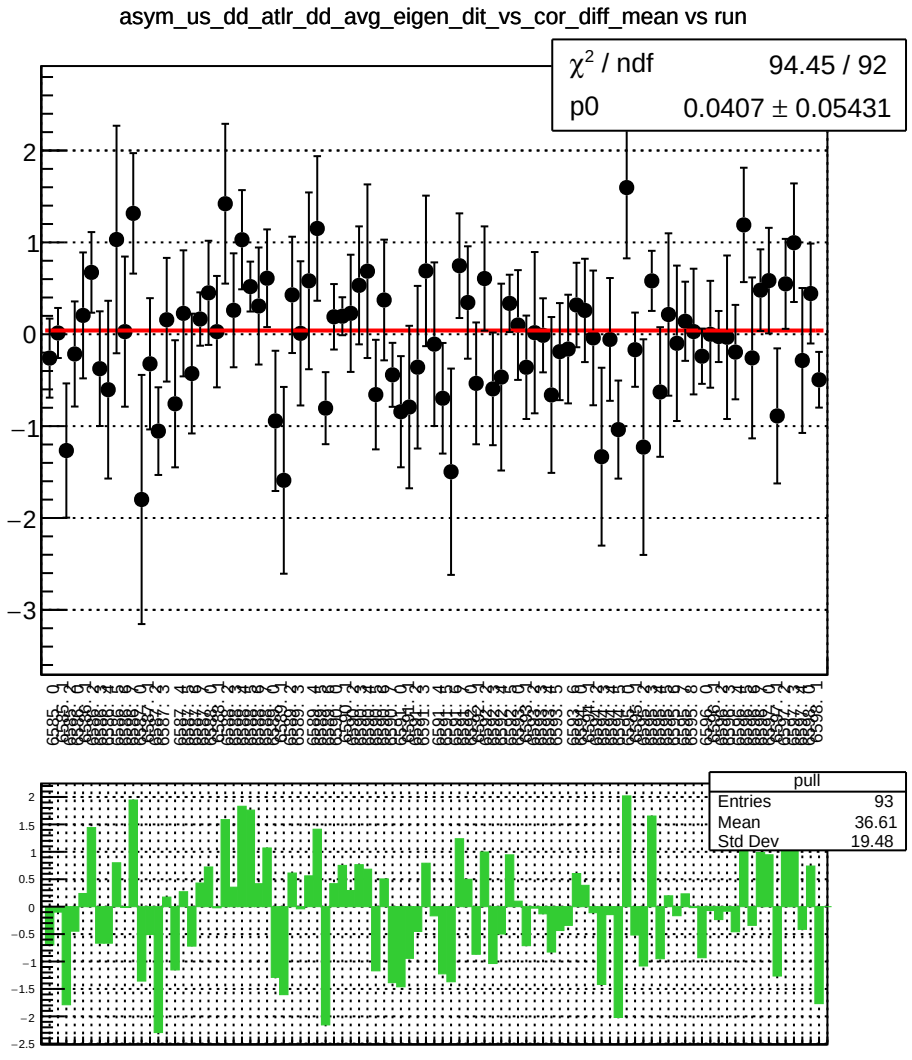

pull1D
Entries 93
Mean −0.05146
Std Dev 1.006

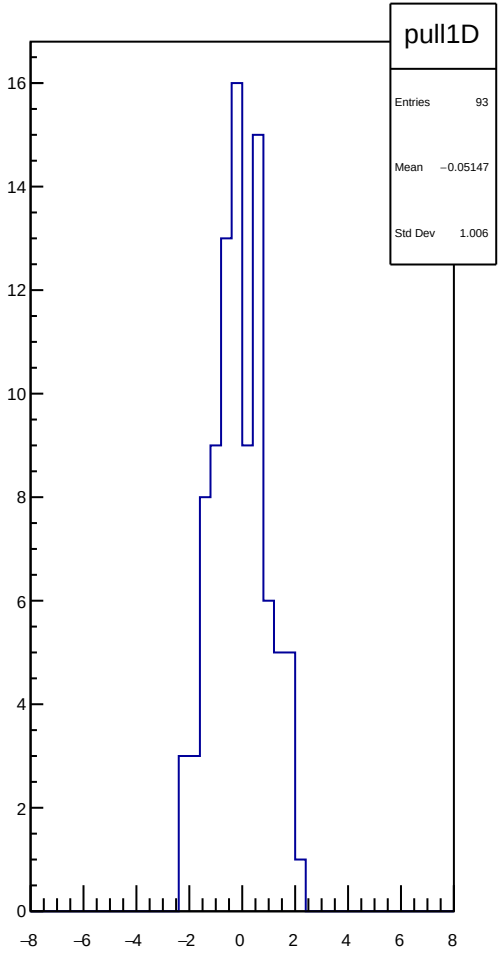

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.528e+05 / 92
p0 47.31 ± 0.0384
140
120
100
80
60
40
20

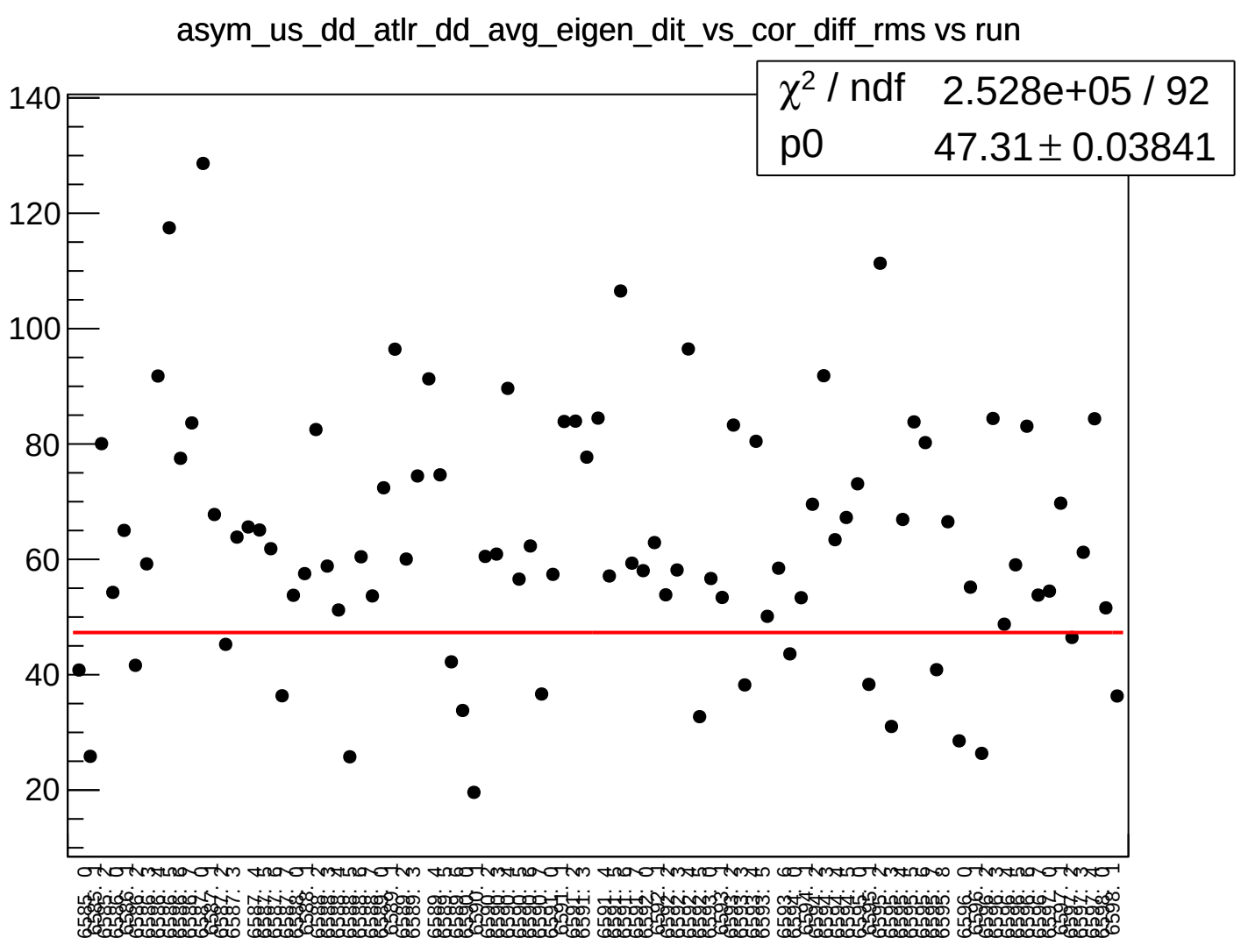

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.72 / 92
p0 4.035e−07 ± 3.214e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean −2333
Std Dev 0
2
1
0
−1
−2
−3

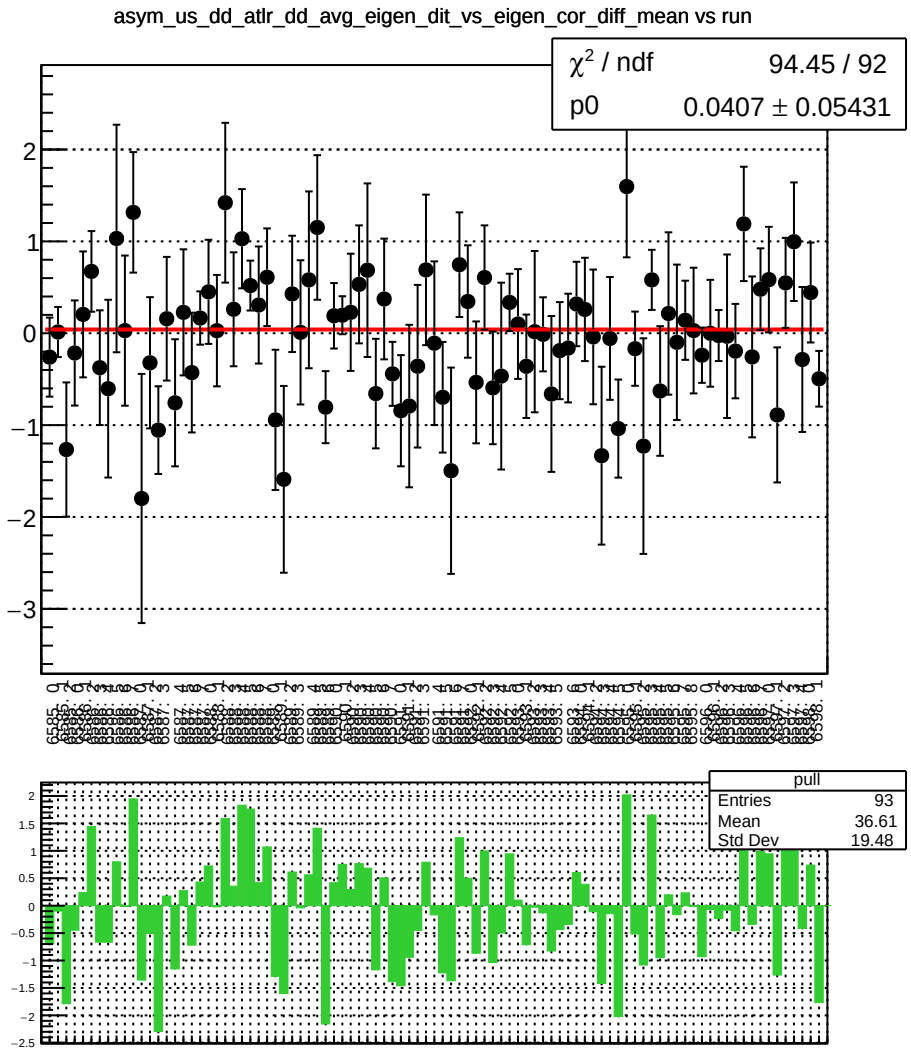

pull1D
Entries 93
Mean −0.0002956
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

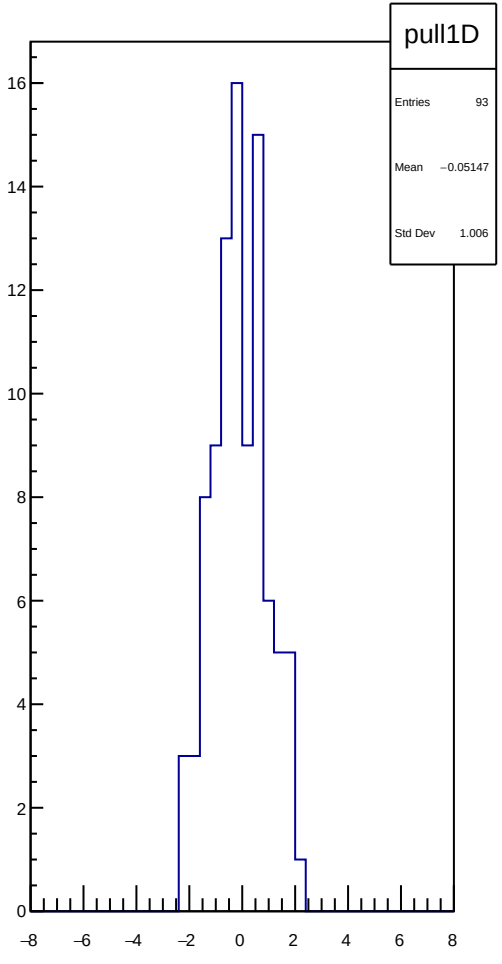

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.16e+04 / 92
p0 0.003014 ± 2.272e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

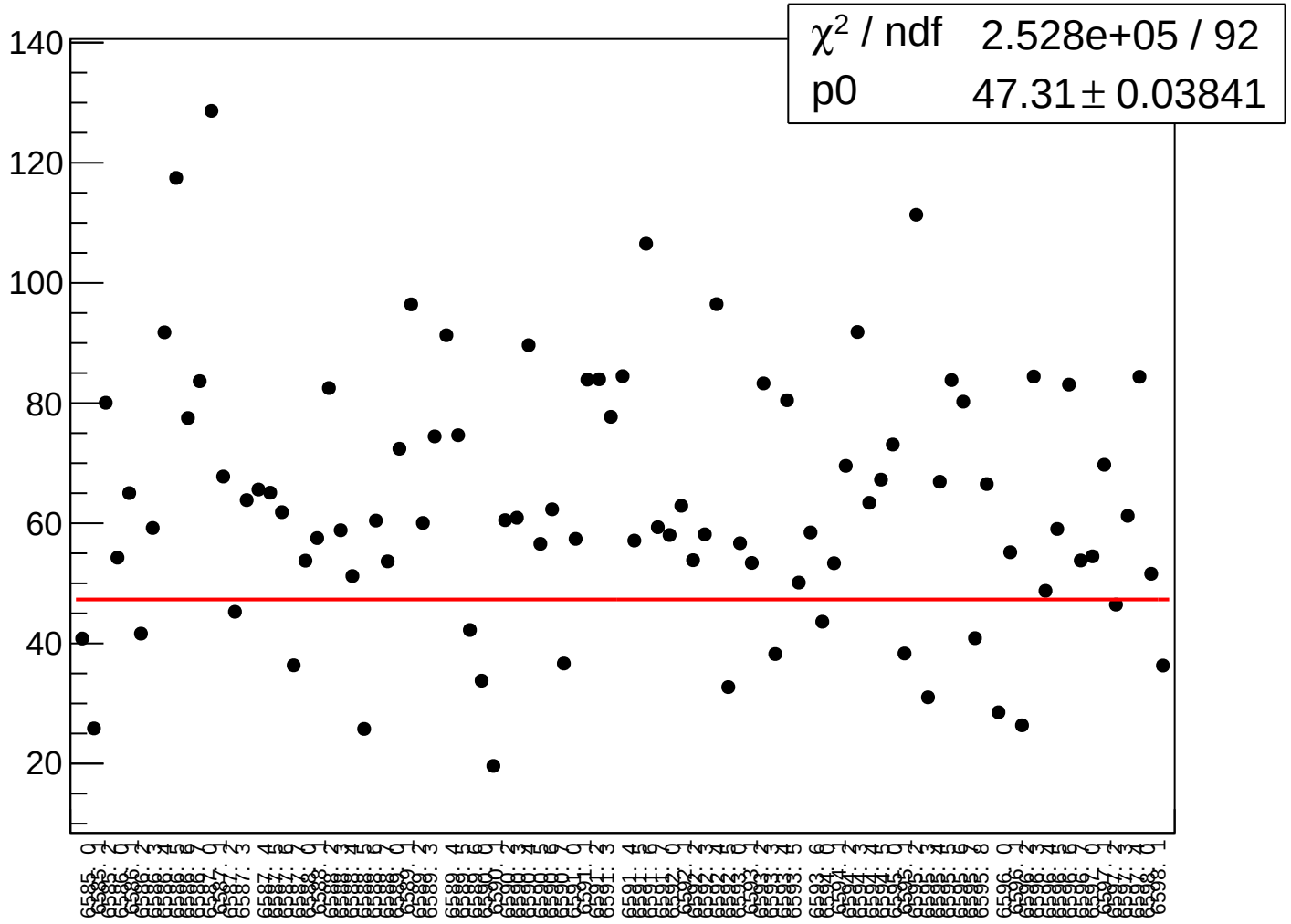

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.45 / 92
p0 0.0407 ± 0.05431
pull
Entries 93
Mean 36.61
Std Dev 19.48

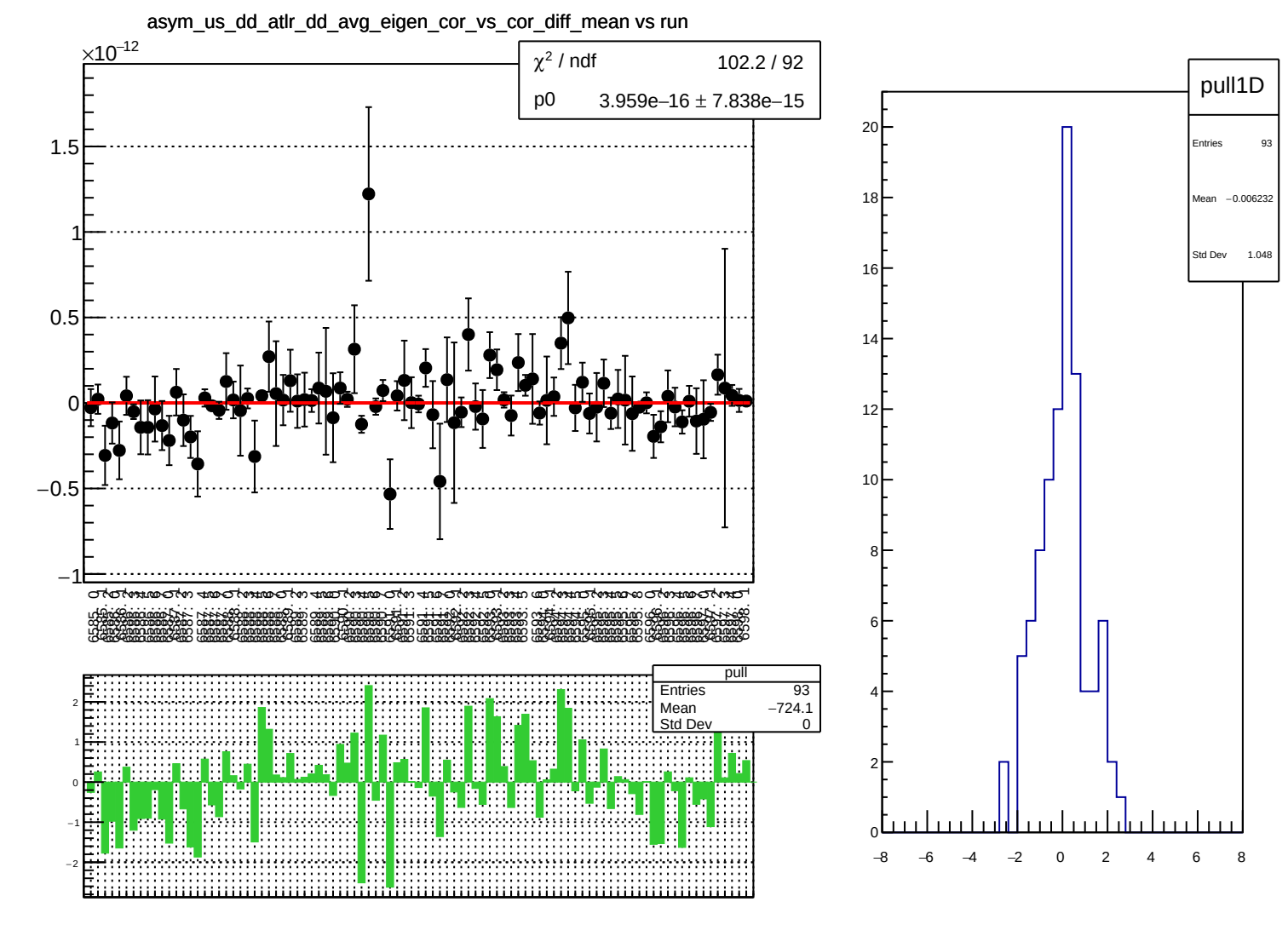

pull1D
Entries 93
Mean −0.05147
Std Dev 1.006

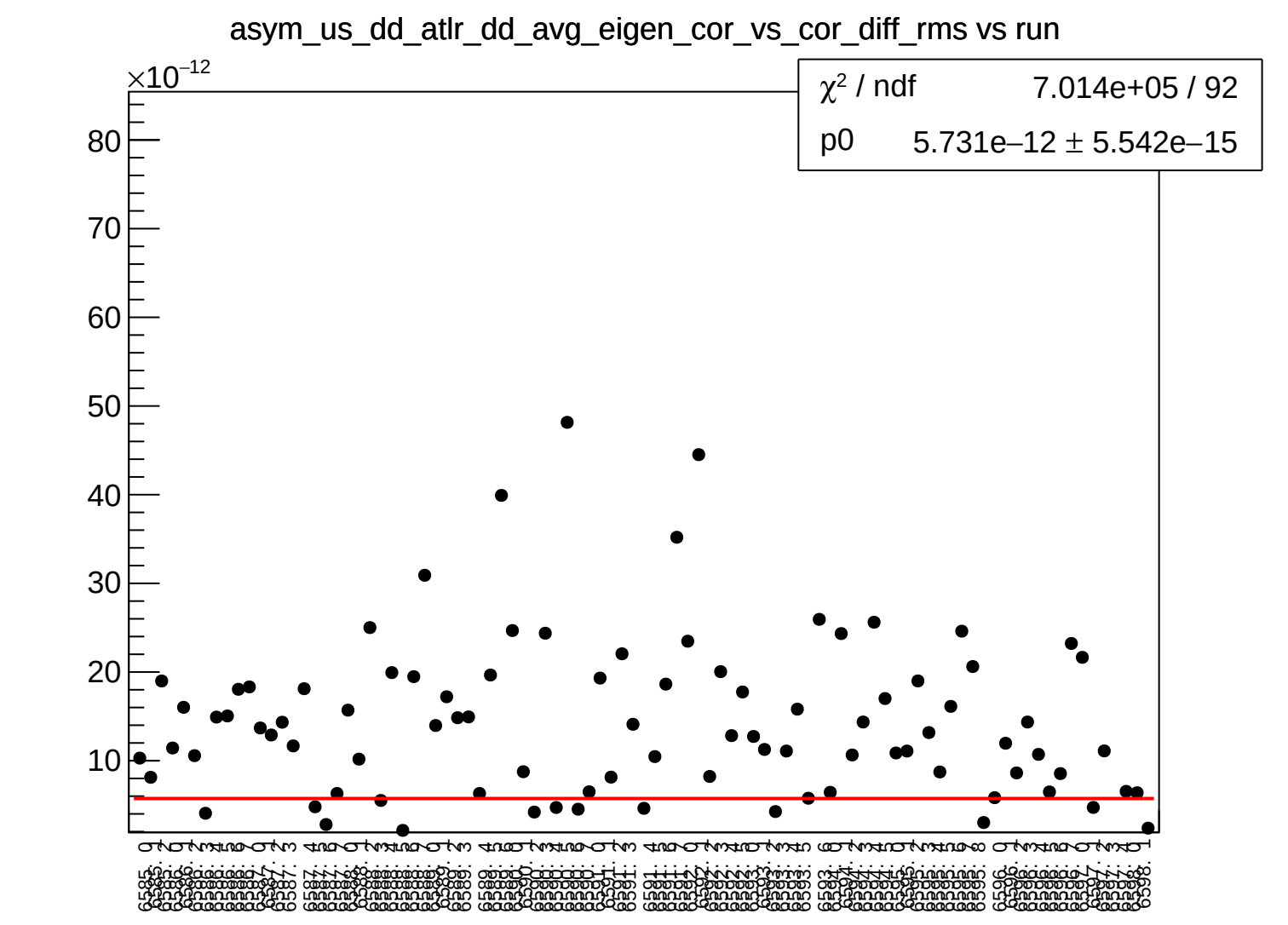

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.528e+05 / 92
p0 47.31 ± 0.03841
140
120
100
80
60
40
20

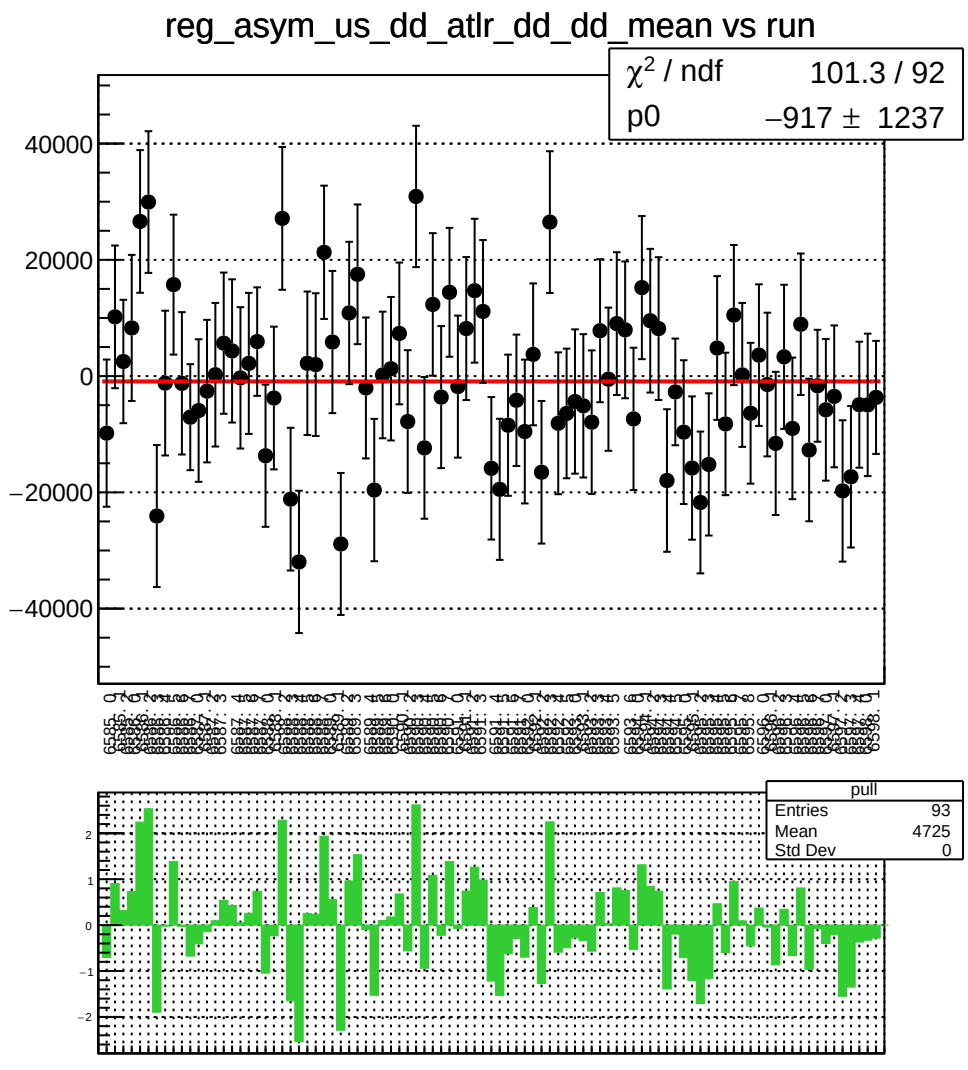

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.45 / 92
p0 0.0407 ± 0.05431
pull
Entries 93
Mean 36.61
Std Dev 19.48

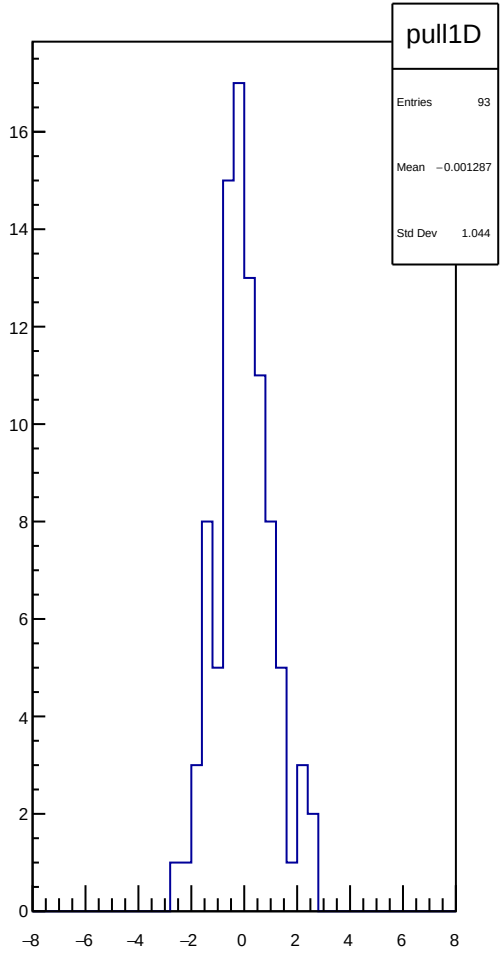

pull1D
Entries 93
Mean −0.05147
Std Dev 1.006

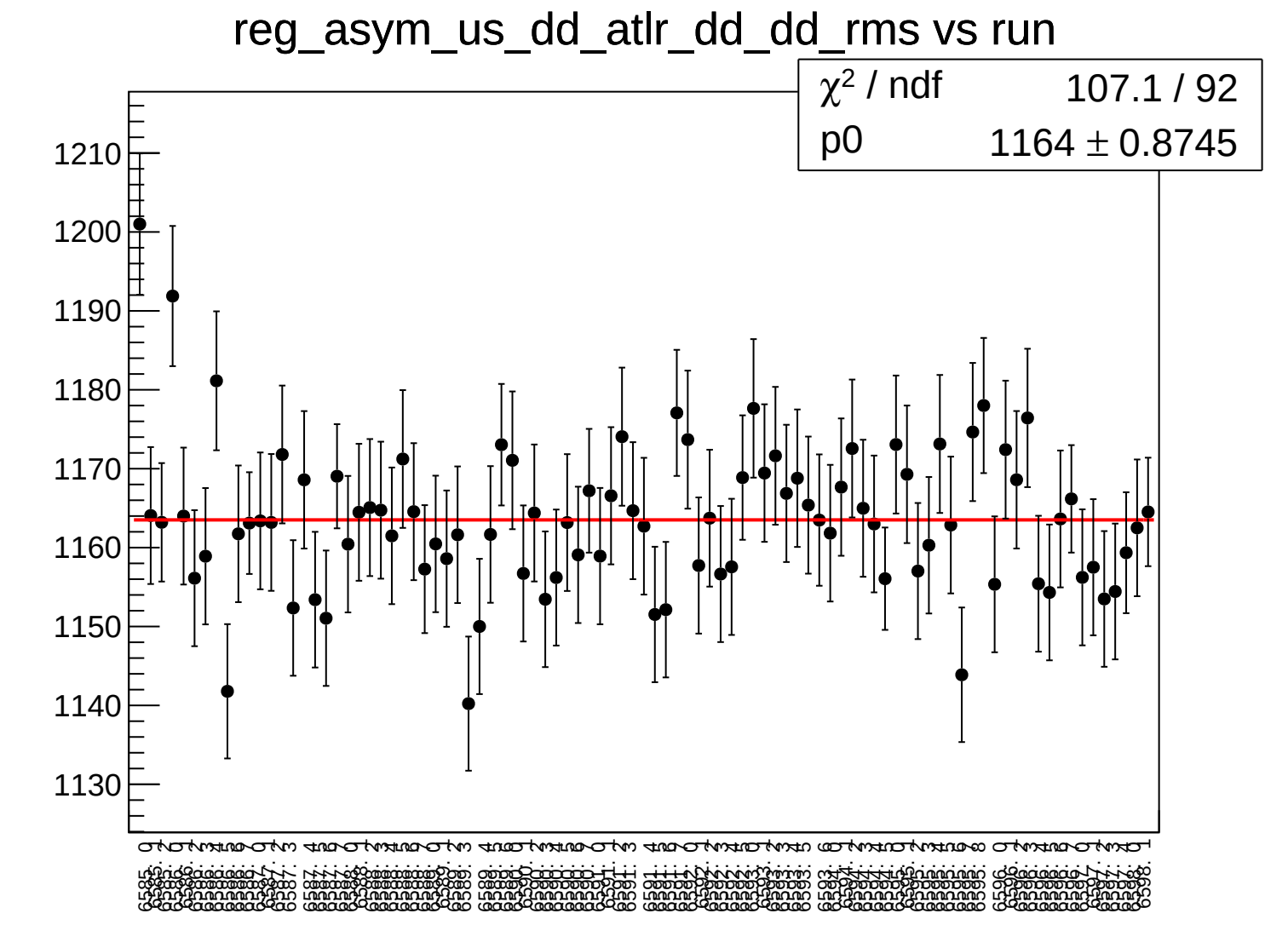

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.528e+05 / 92
p0 47.31 ± 0.03841
140
120
100
80
60
40
20

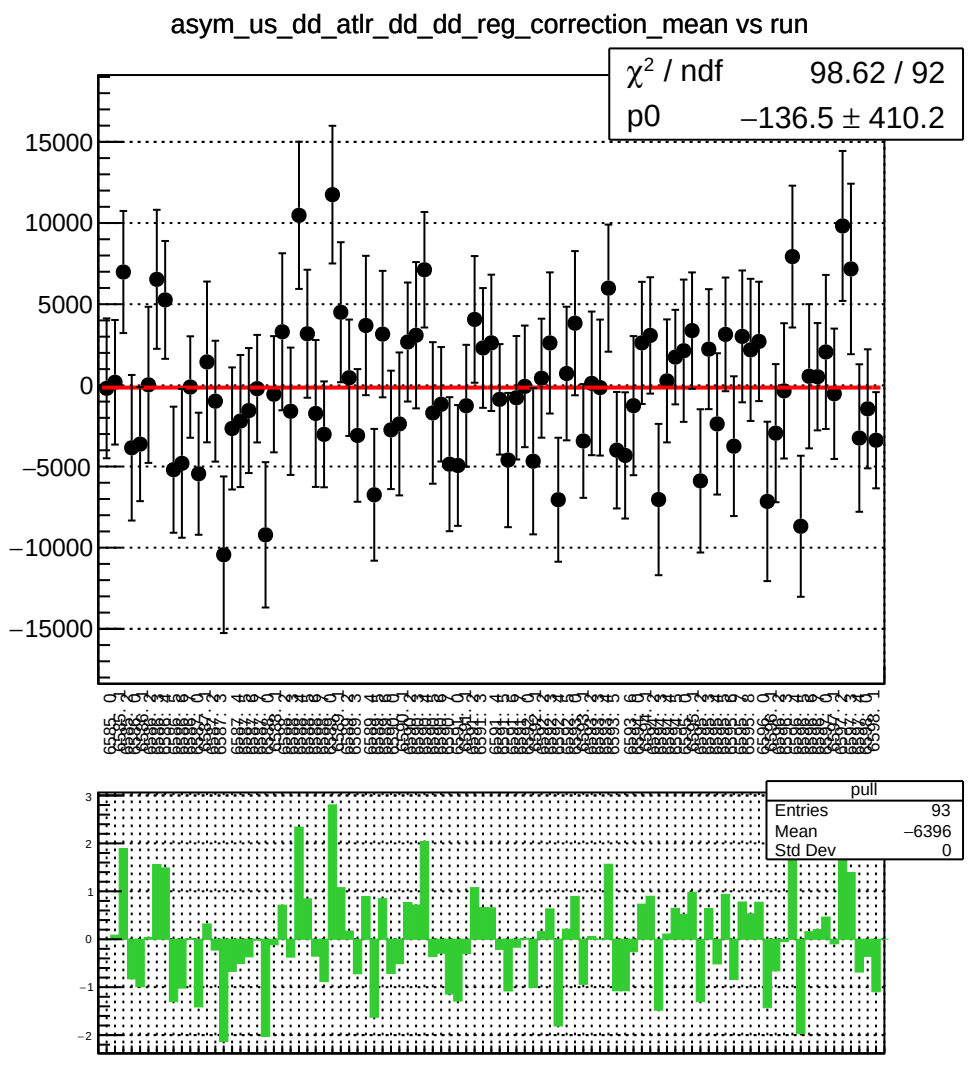

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.2 / 92
p0 3.959e−16 ± 7.838e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 93
Mean −724.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006232
Std Dev 1.048
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

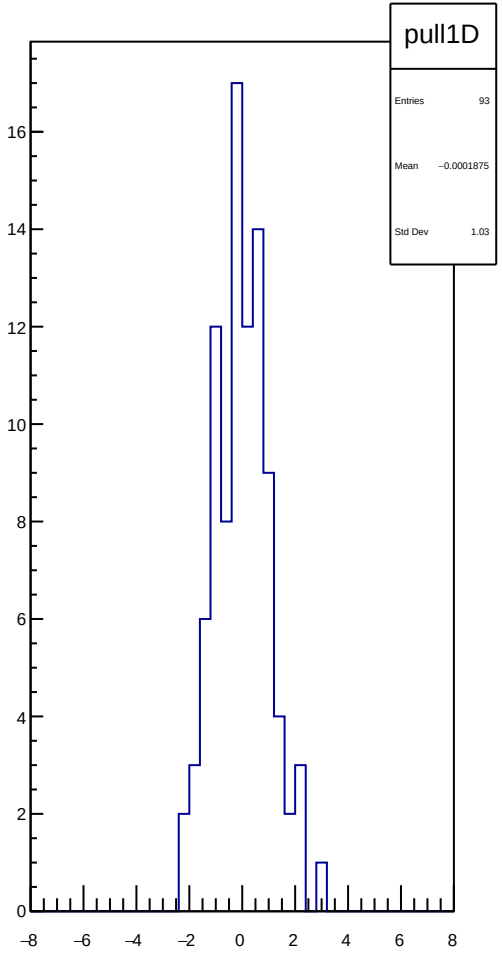

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.014e+05 / 92
p0 5.731e−12 ± 5.542e−15
80
70
60
50
40
30
20
10

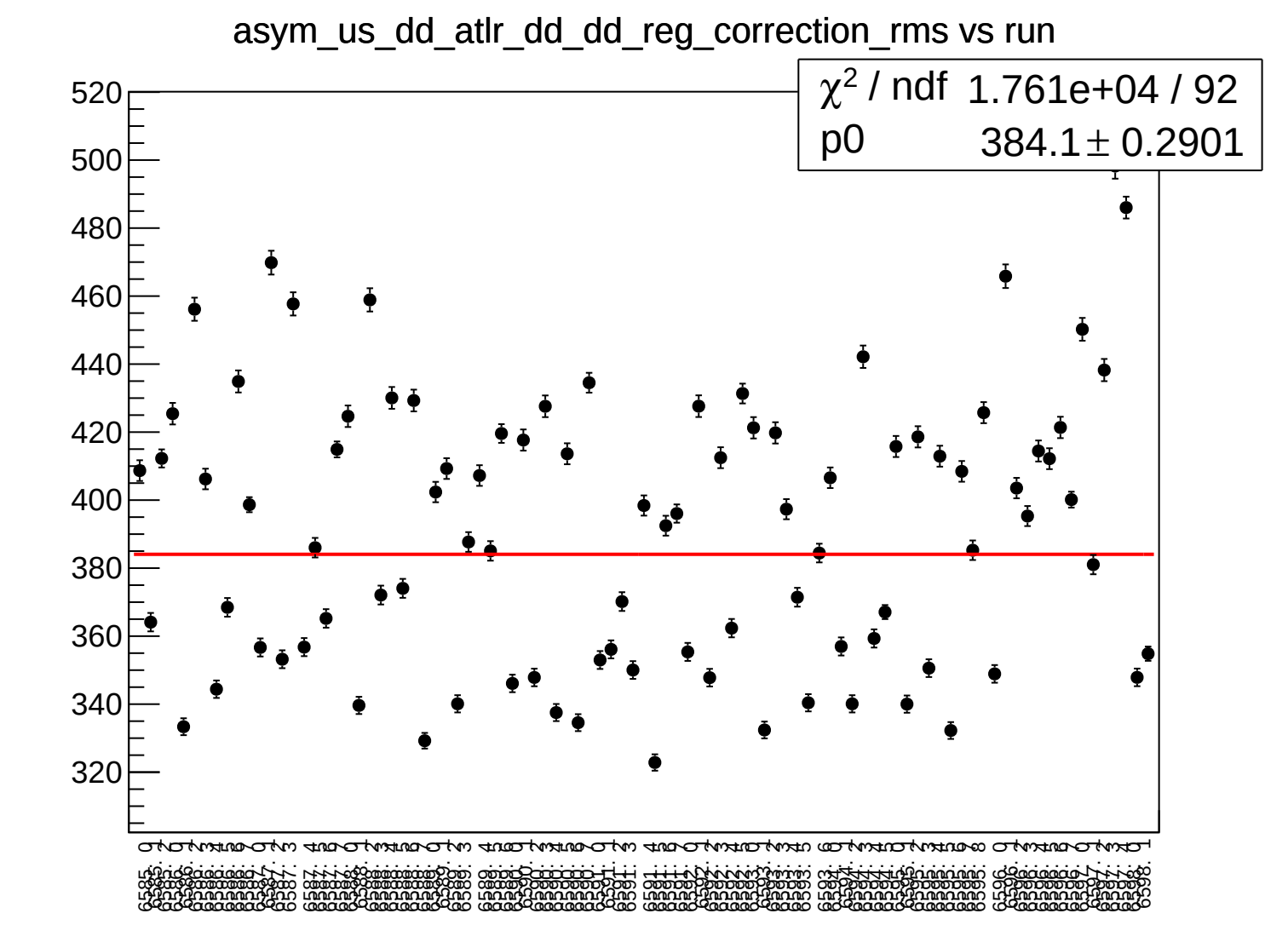

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 101.3 / 92
p0 −917 ± 1237
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 4725
Std Dev 0
2
1
0
−1
−2

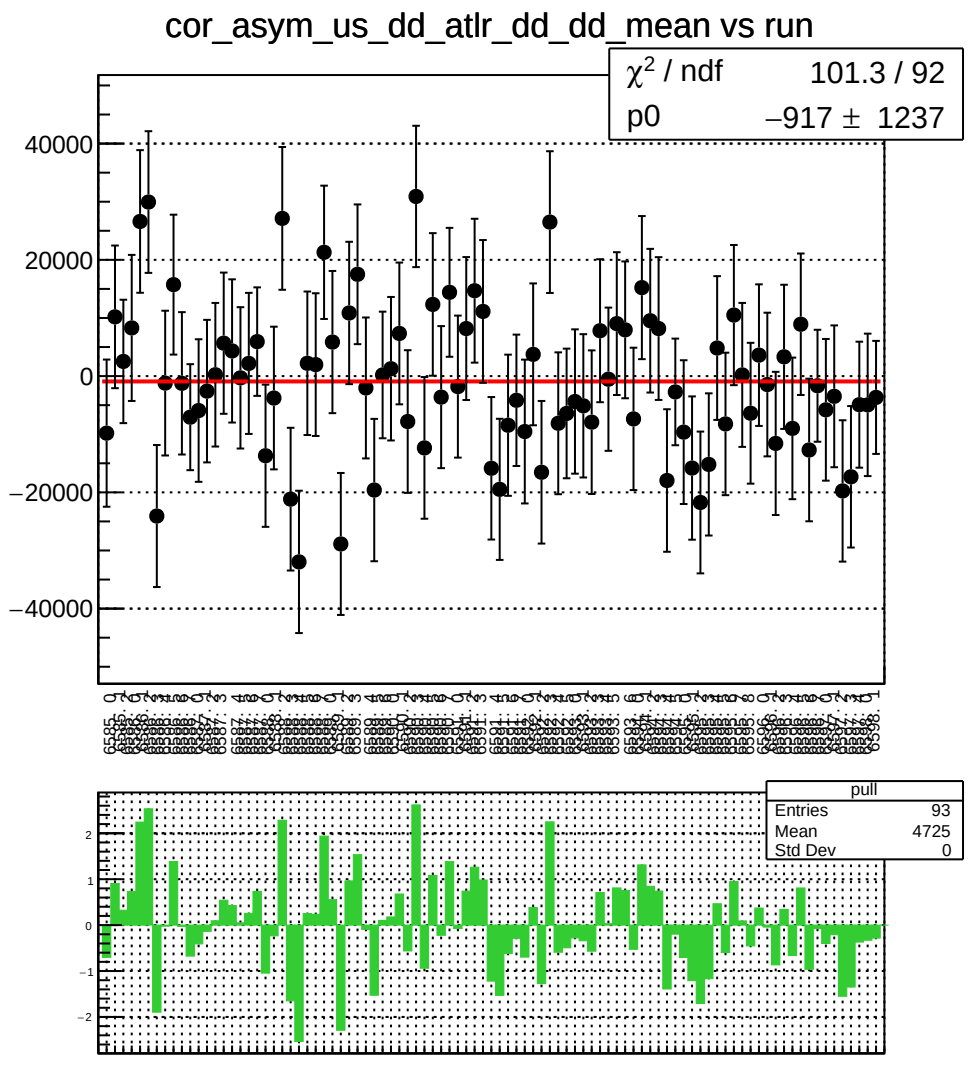

pull1D
Entries 93
Mean −0.001287
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

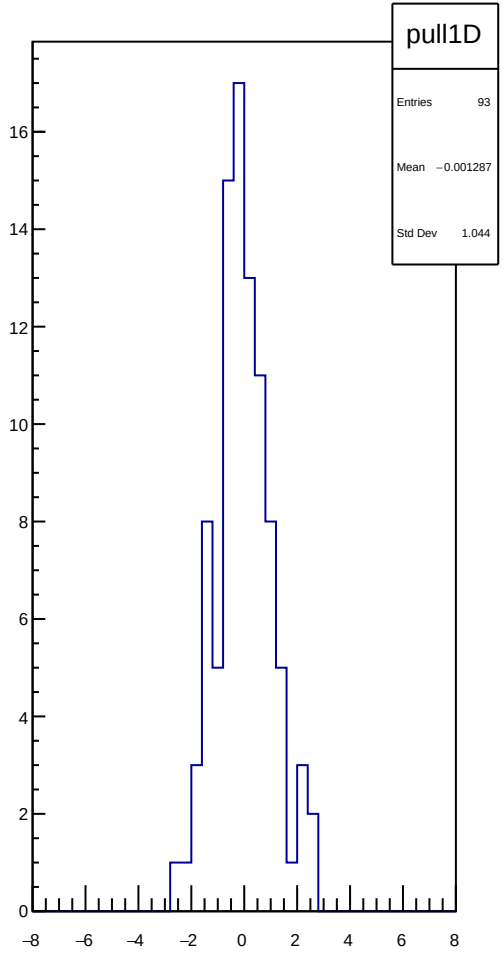

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 107.1 / 92
p0 1164 ± 0.8745
1210
1200
1190
1180
1170
1160
1150
1140
1130

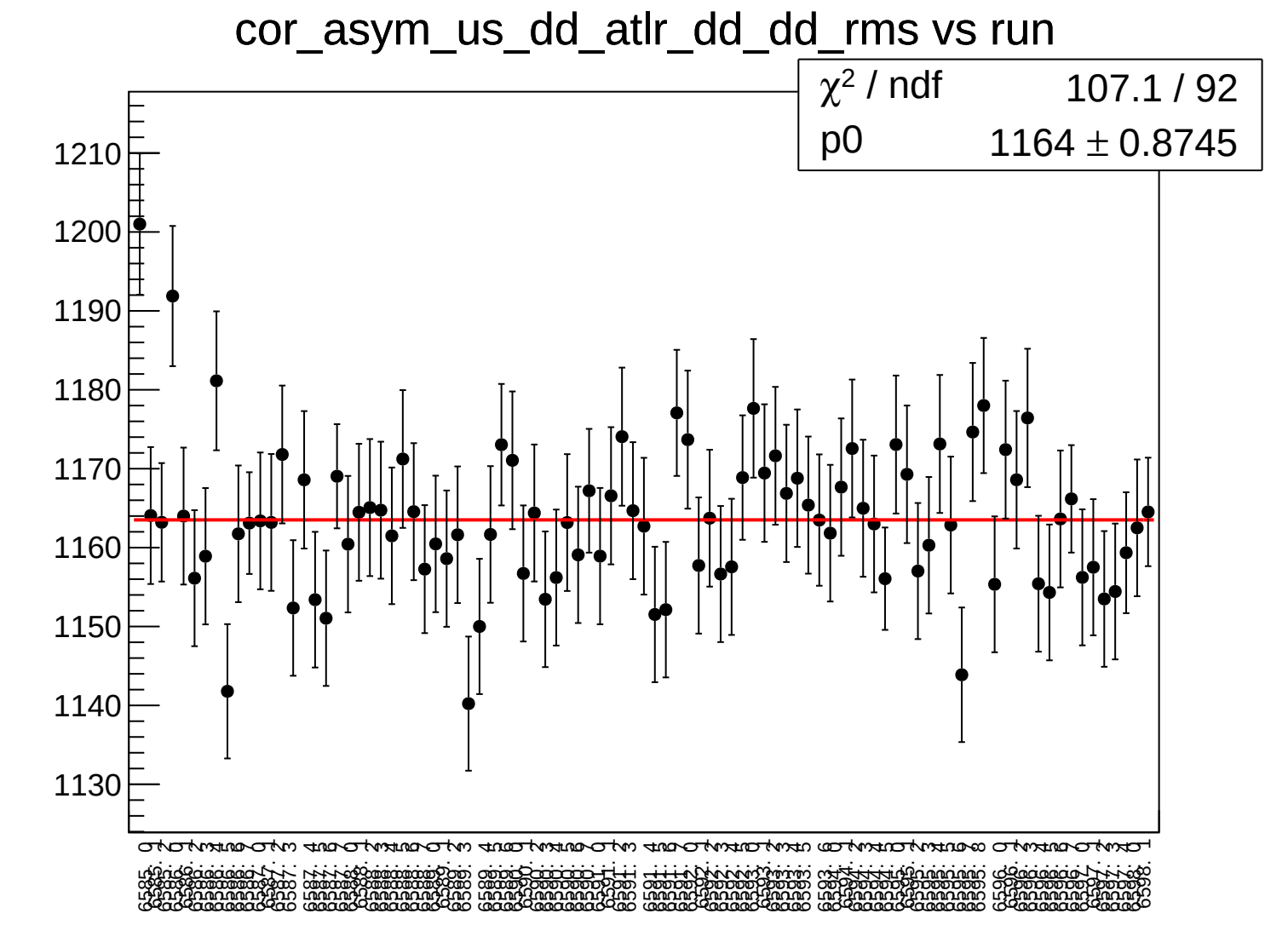

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 98.62 / 92
p0 −136.5 ± 410.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −6396
Std Dev 0
3
2
1
0
−1
−2

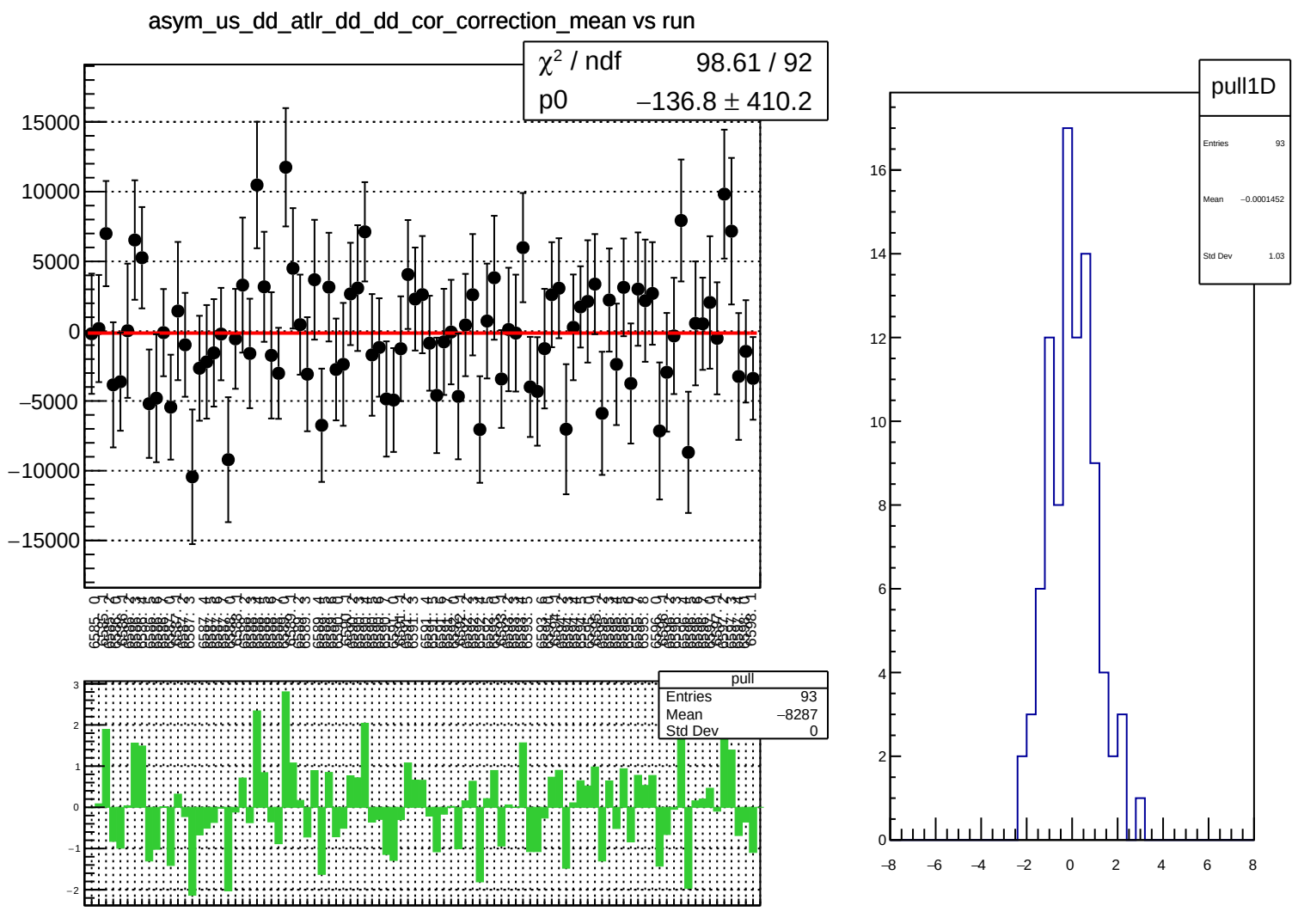

pull1D
Entries 93
Mean −0.0001875
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

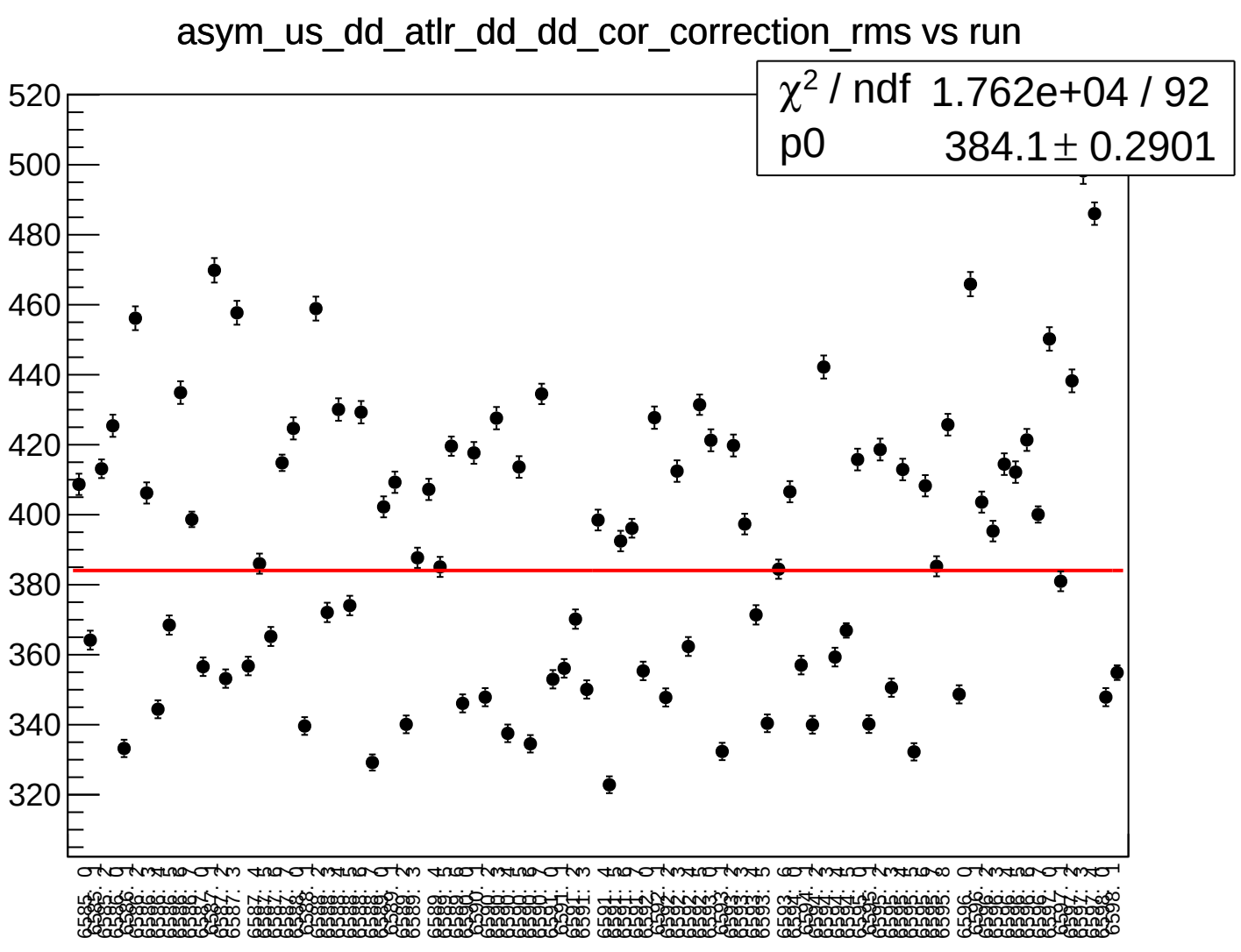

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ^2 / ndf 1.761e+04 / 92
p0 384.1 ± 0.2901
520
500
480
460
440
420
400
380
360
340
320

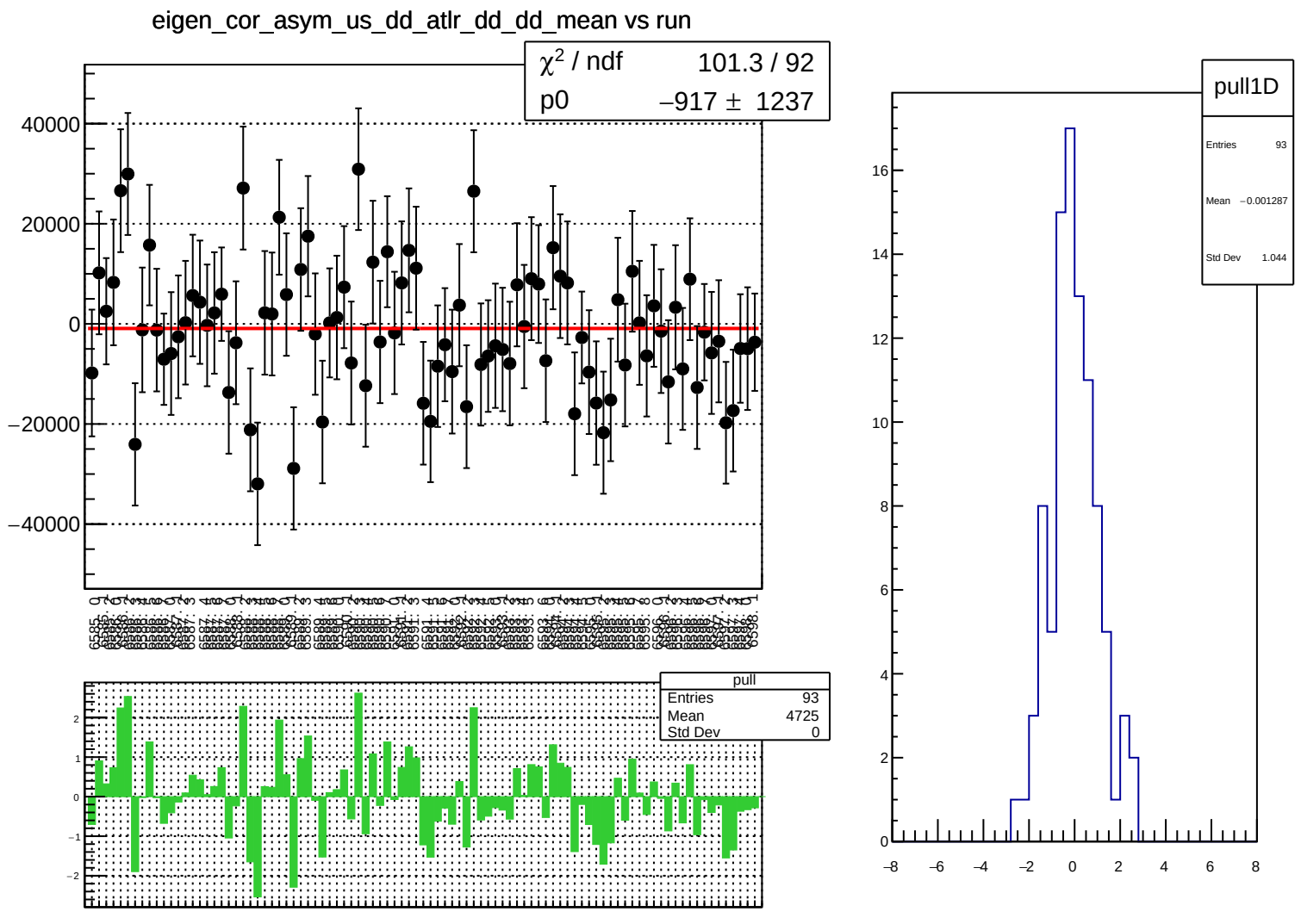

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 101.3 / 92
p0 −917 ± 1237
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 4725
Std Dev 0
2
1
0
−1
−2

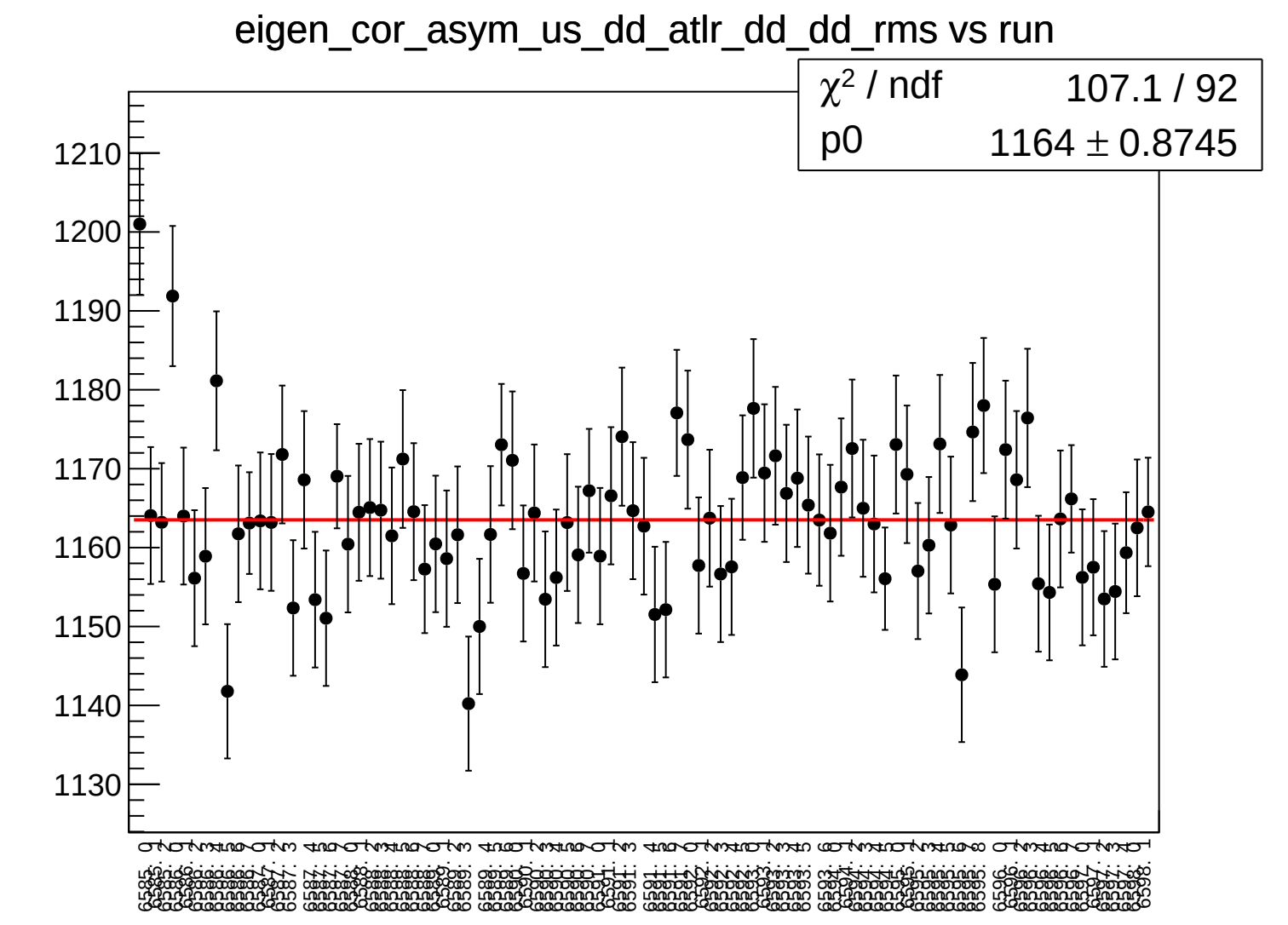

pull1D
Entries 93
Mean −0.001287
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

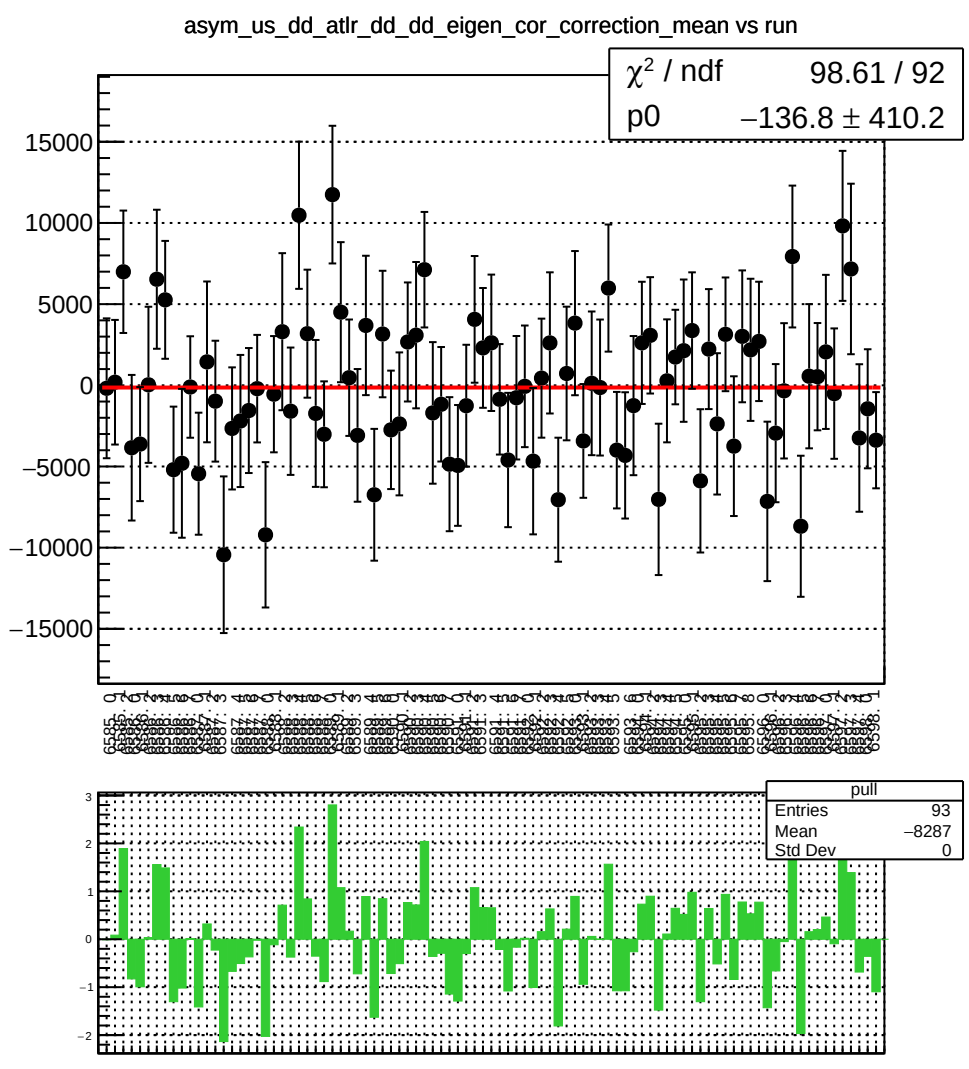

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 107.1 / 92
p0 1164 ± 0.8745
1210
1200
1190
1180
1170
1160
1150
1140
1130

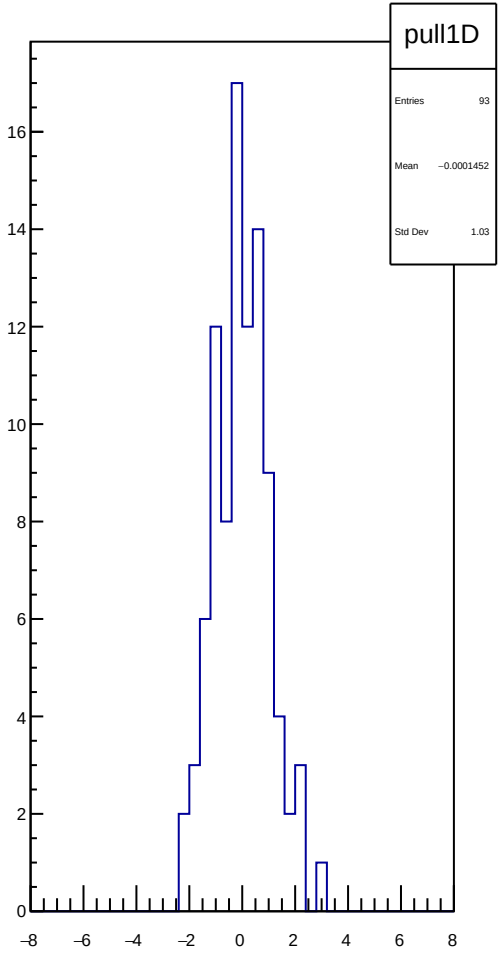

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 98.61 / 92
p0 −136.8 ± 410.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −8287
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0001452
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

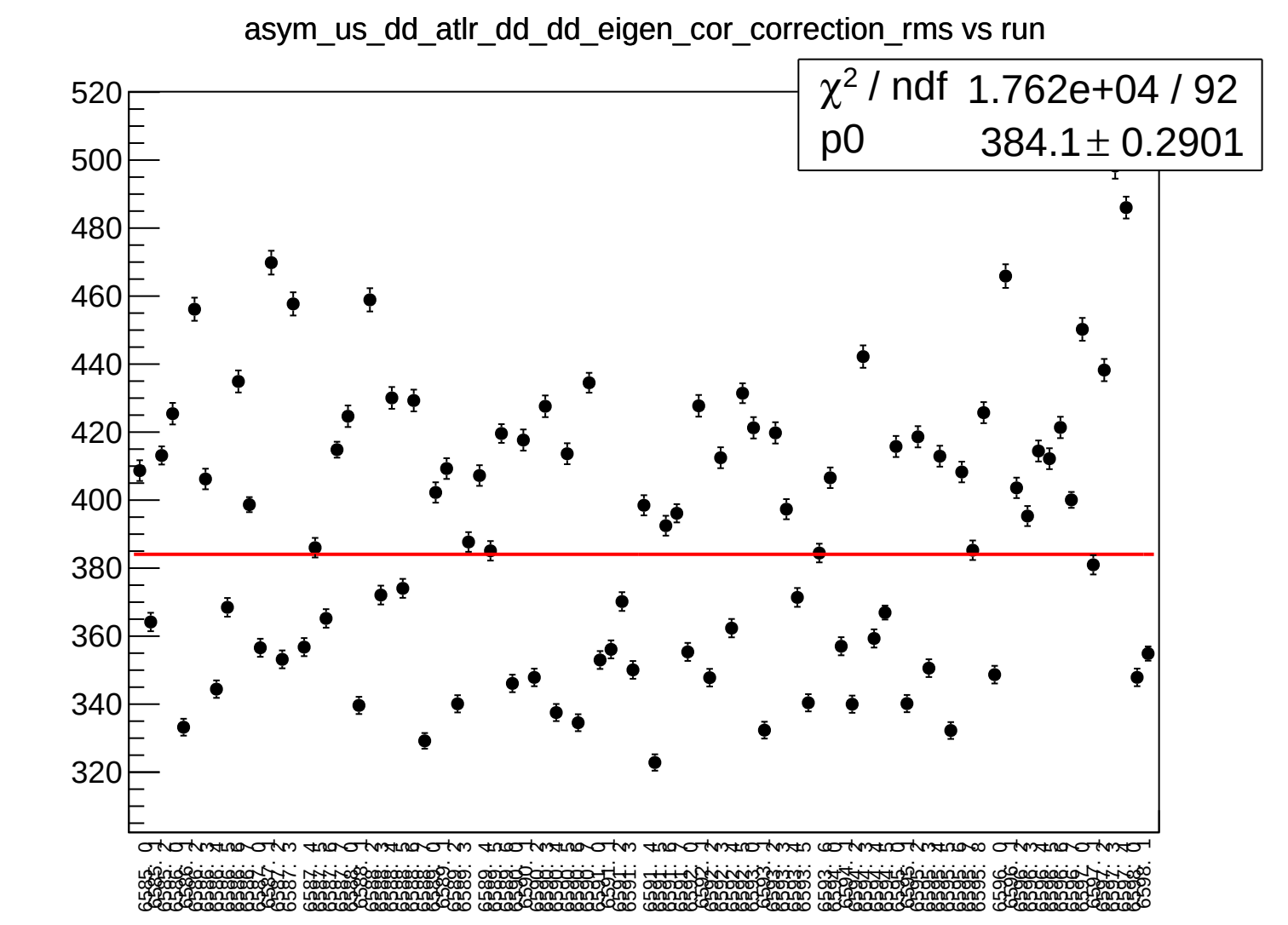

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ^2 / ndf 1.762e+04 / 92
p0 384.1 ± 0.2901
520
500
480
460
440
420
400
380
360
340
320

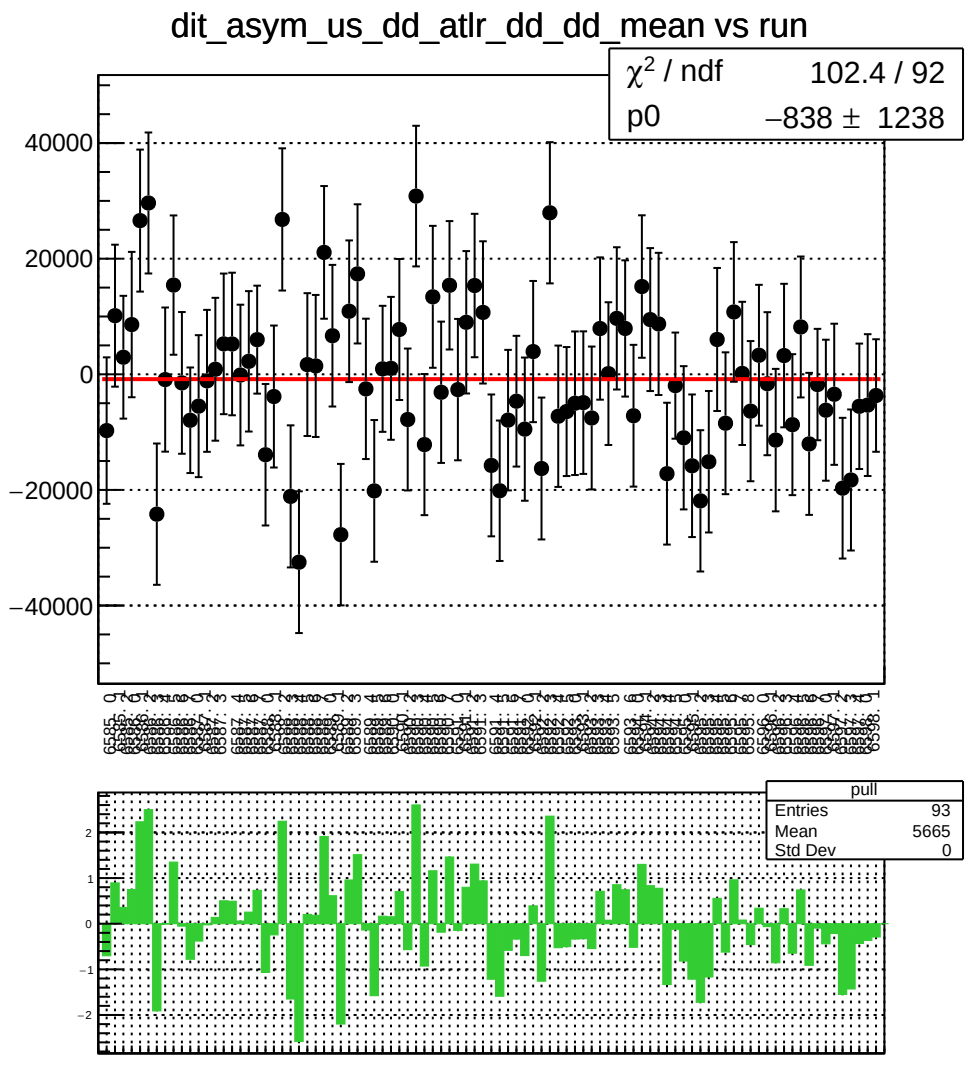

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 101.3 / 92
p0 −917 ± 1237
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 4725
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001287
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

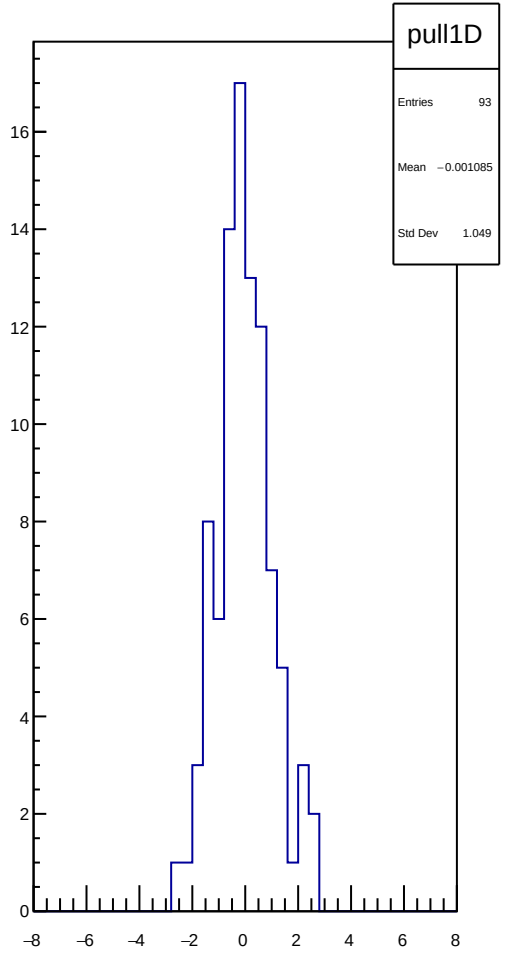

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 107.1 / 92
p0 1164 ± 0.8745
1210
1200
1190
1180
1170
1160
1150
1140
1130

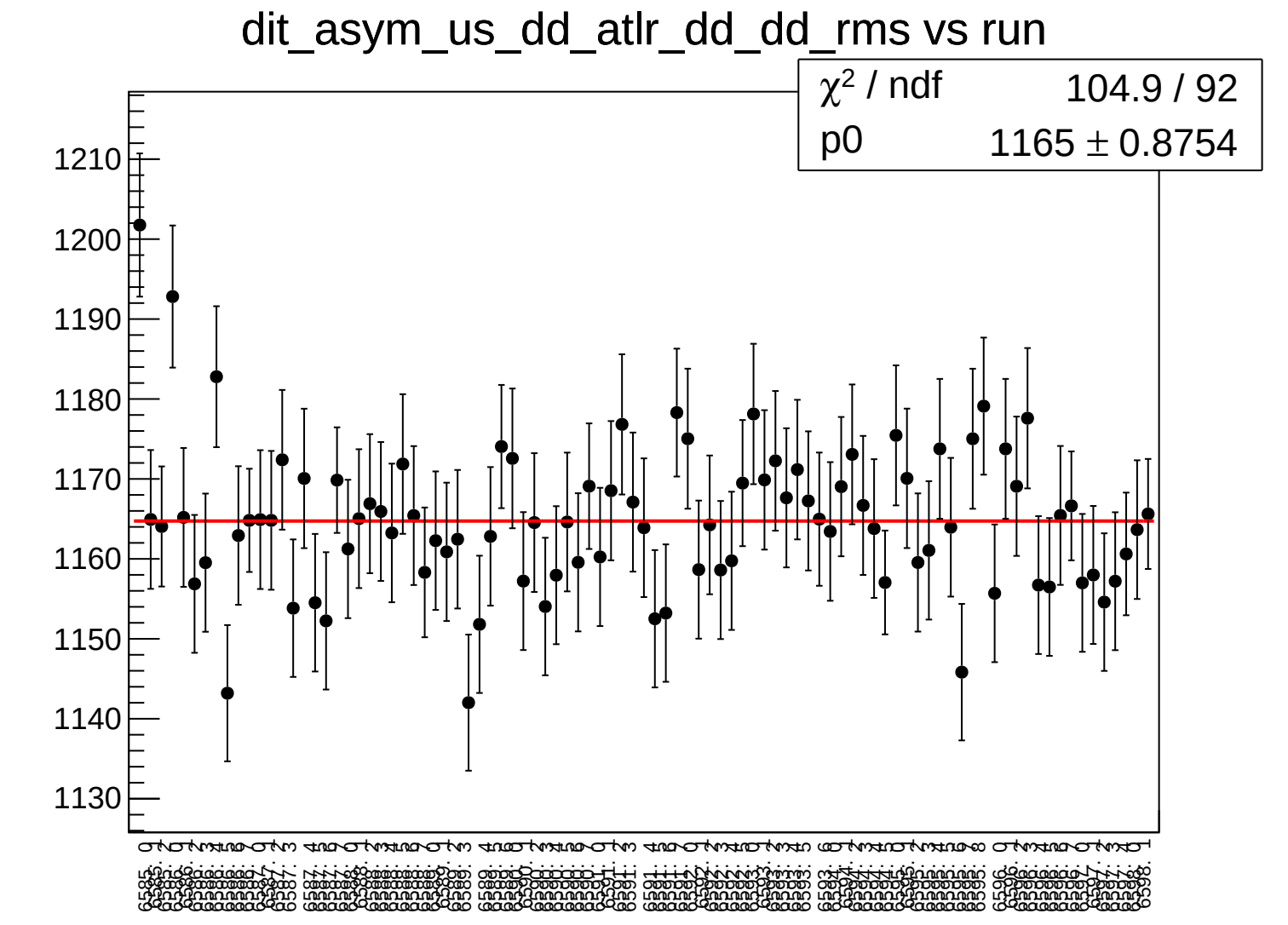

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 98.61 / 92
p0 −136.8 ± 410.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −8287
Std Dev 0
3
2
1
0
−1
−2

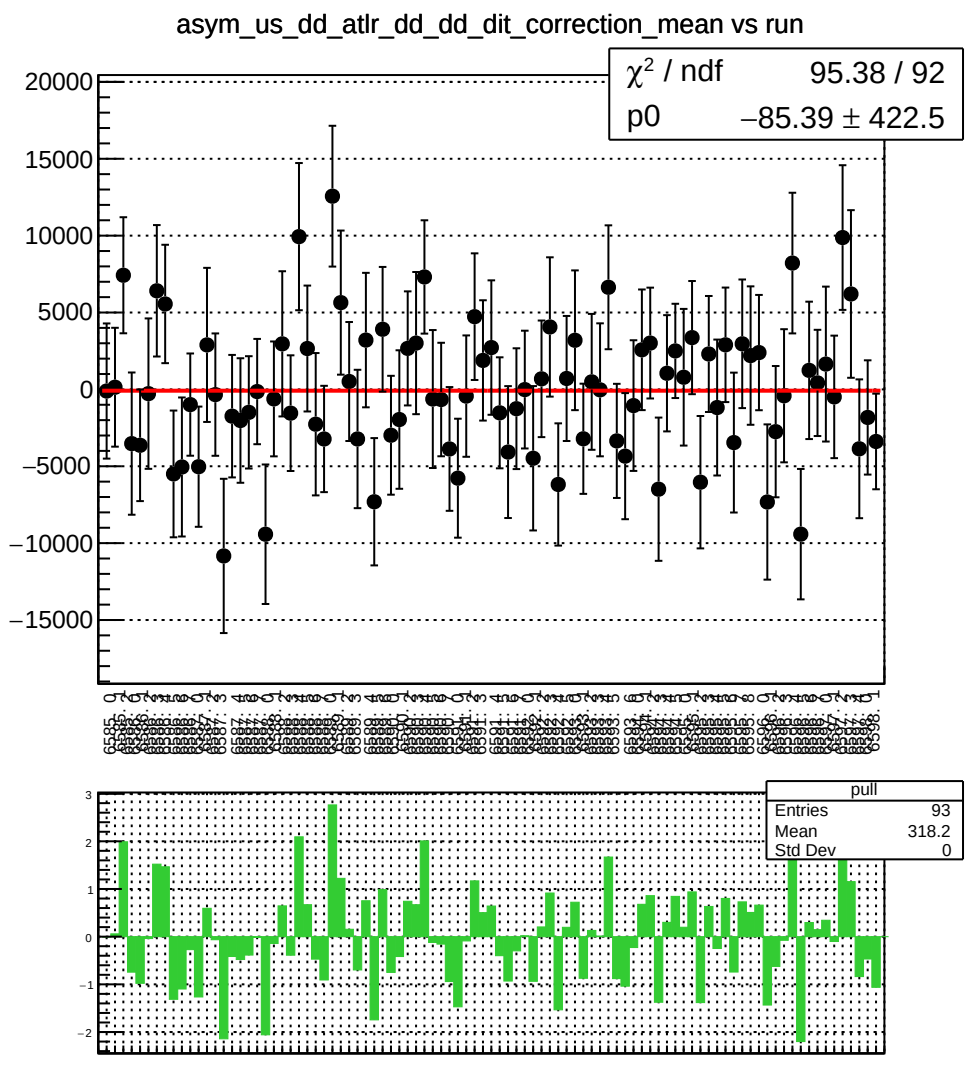

pull1D
Entries 93
Mean −0.0001452
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

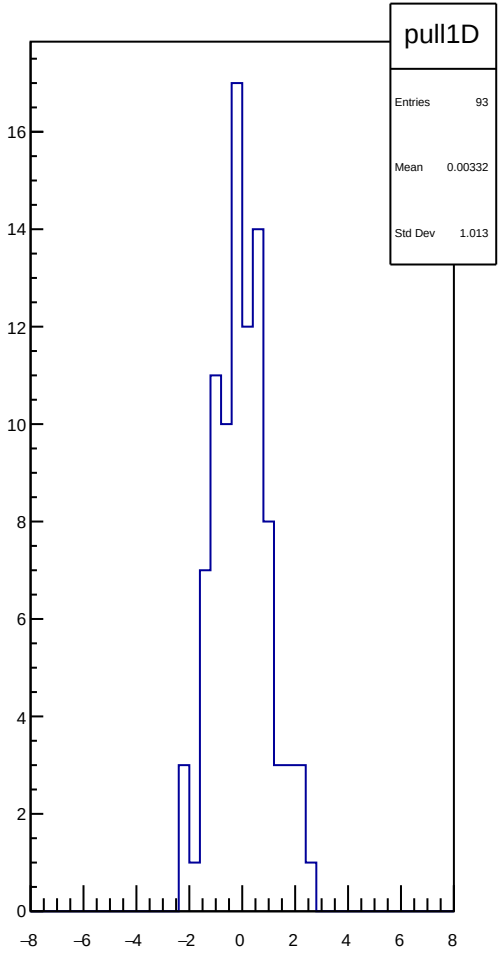

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.762e+04 / 92
p0 384.1 ± 0.2901
520
500
480
460
440
420
400
380
360
340
320

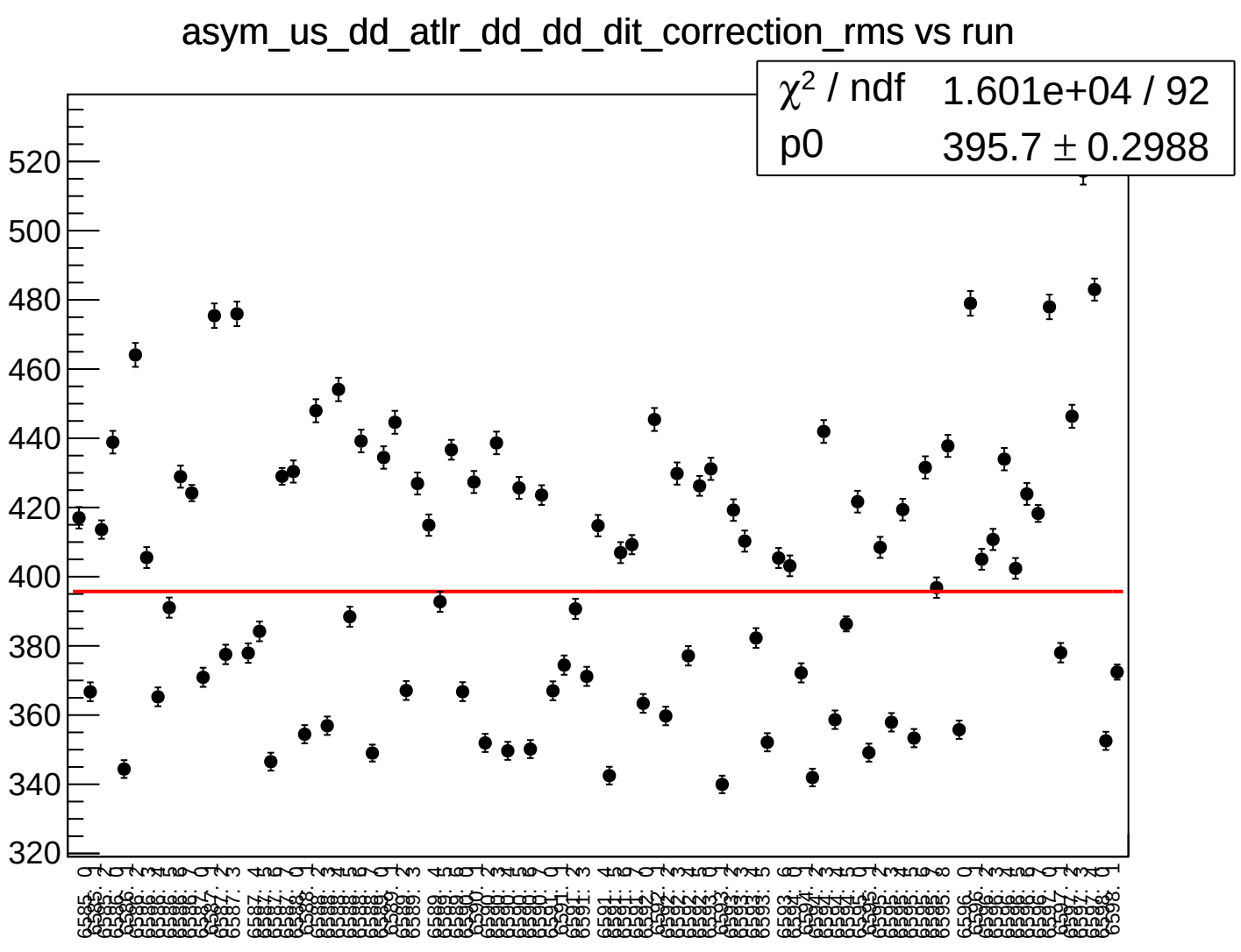

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 102.4 / 92
p0 −838 ± 1238
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 5665
Std Dev 0
2
1
0
−1
−2

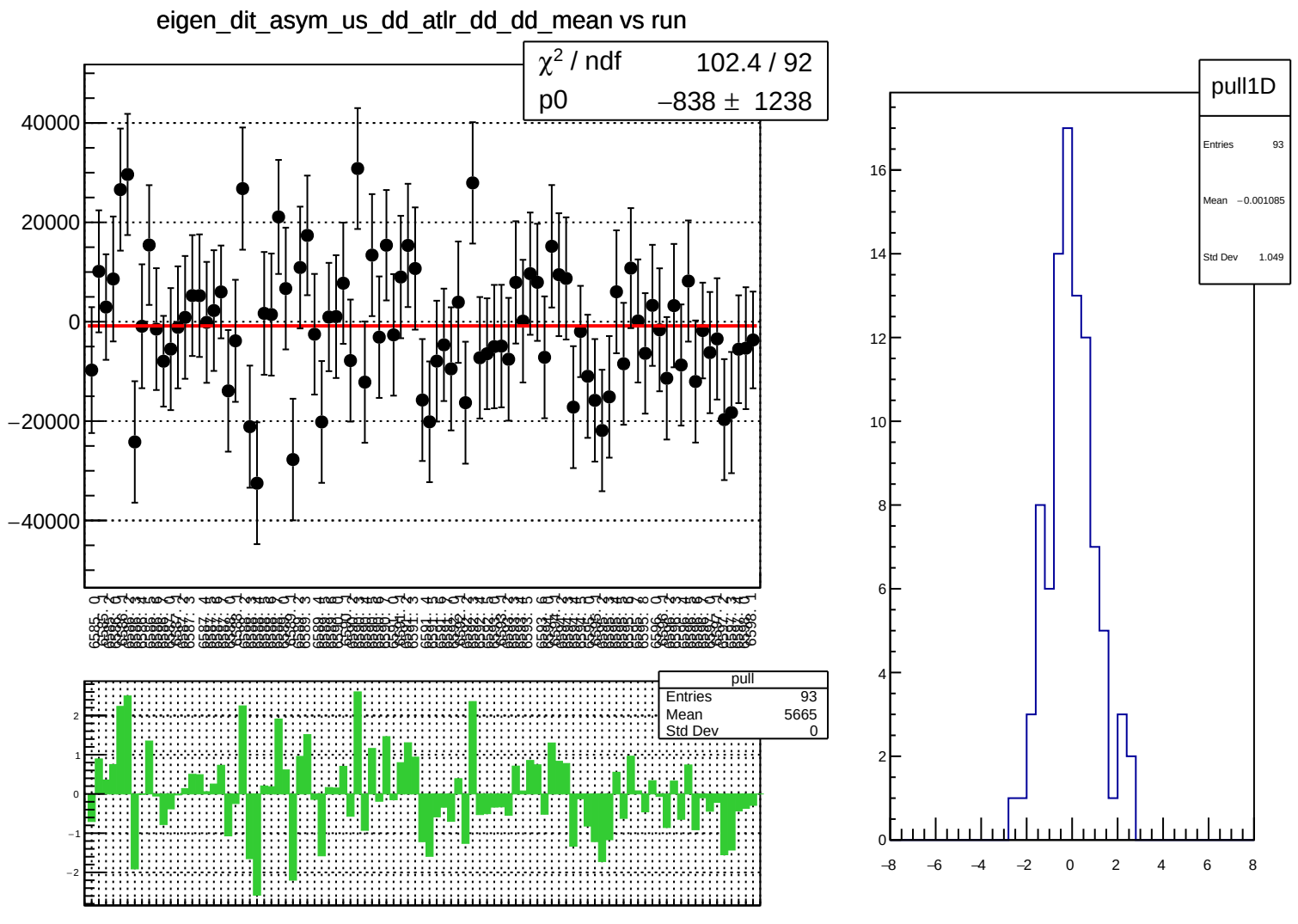

pull1D
Entries 93
Mean −0.001085
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

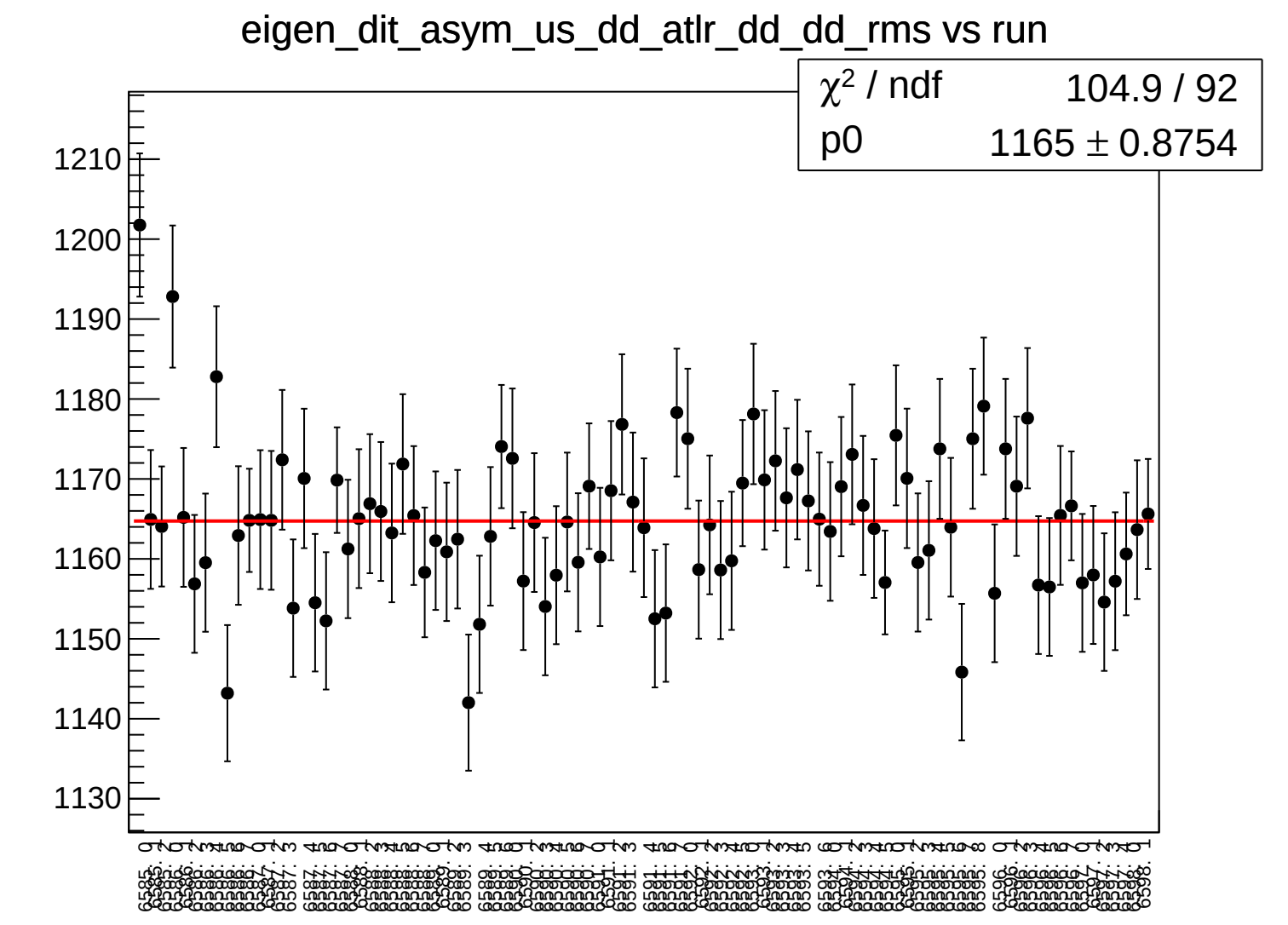

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 104.9 / 92
p0 1165 ± 0.8754
1210
1200
1190
1180
1170
1160
1150
1140
1130

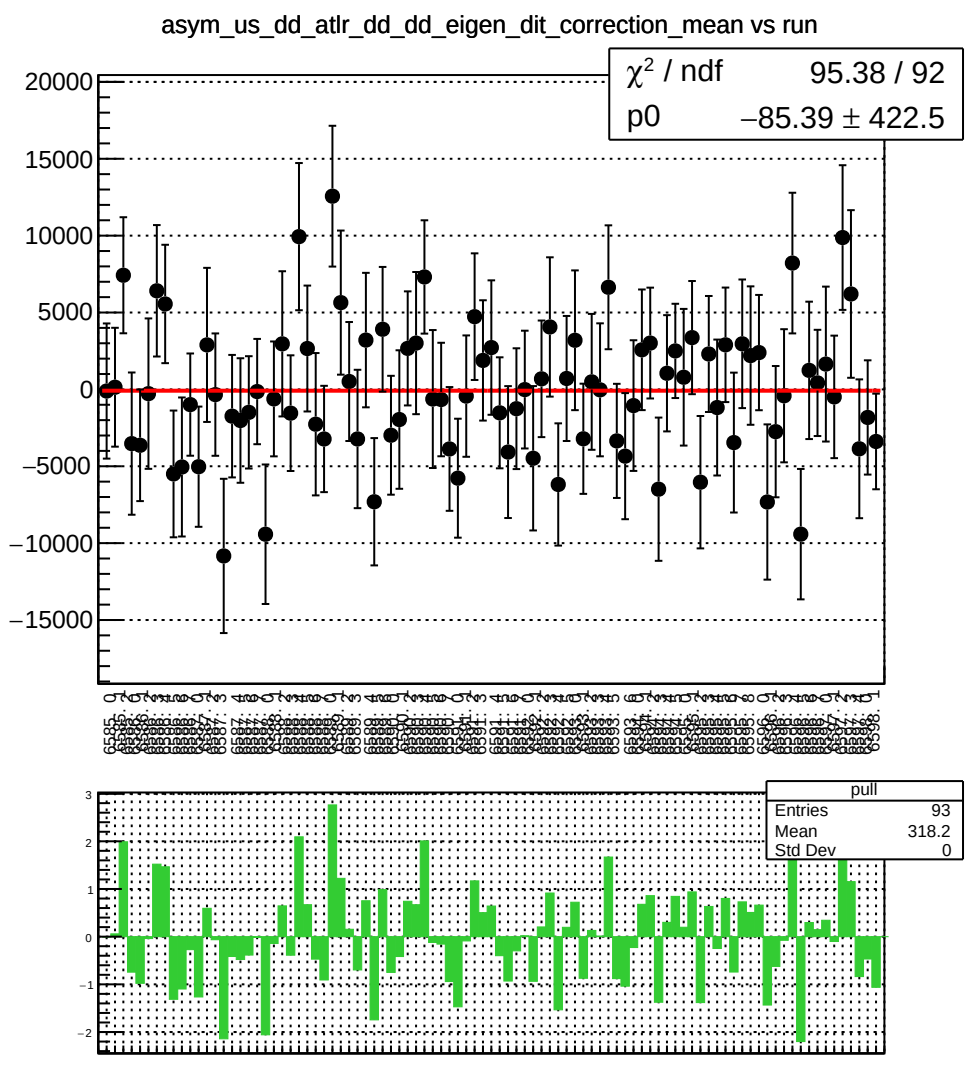

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 95.38 / 92
p0 −85.39 ± 422.5
pull
Entries 93
Mean 318.2
Std Dev 0

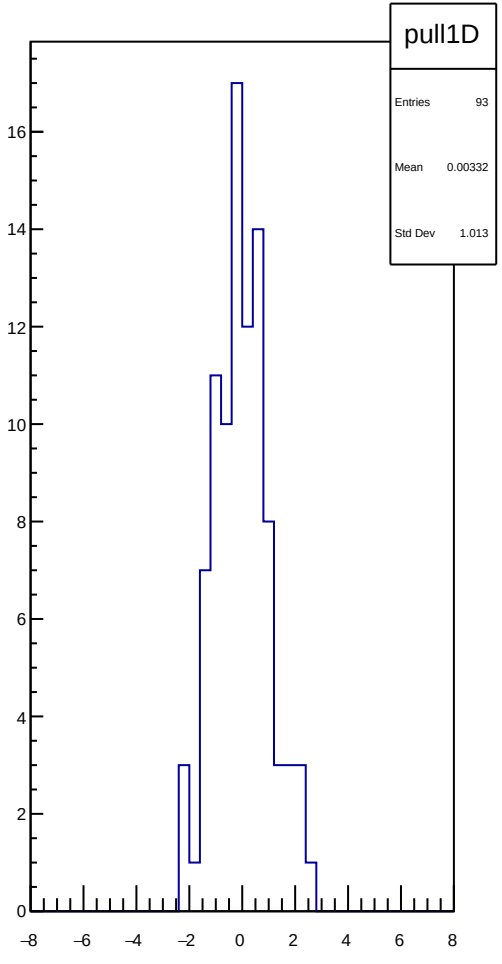

pull1D
Entries 93
Mean 0.00332
Std Dev 1.013

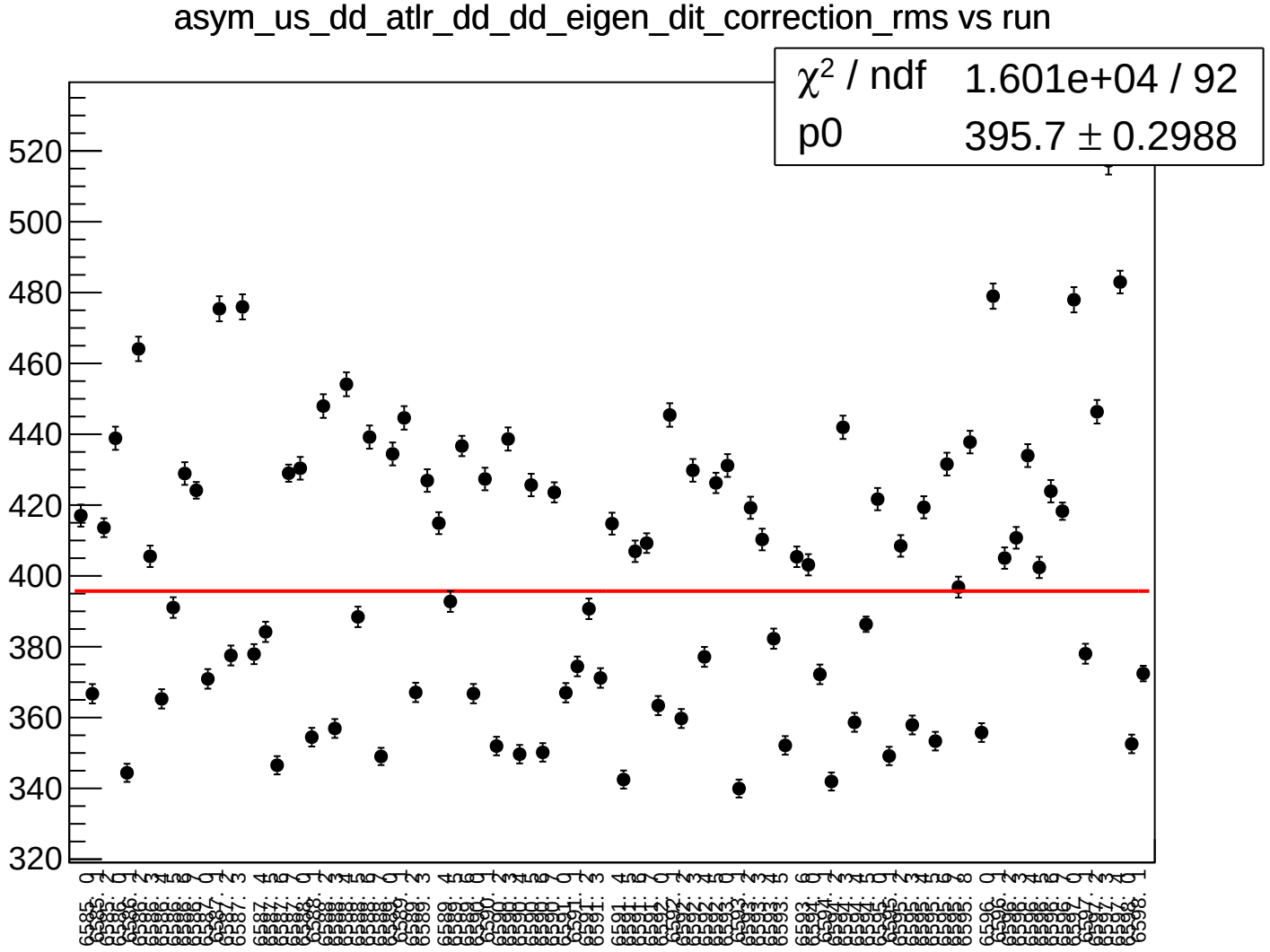

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.601e+04 / 92
p0 395.7 ± 0.2988
520
500
480
460
440
420
400
380
360
340
320

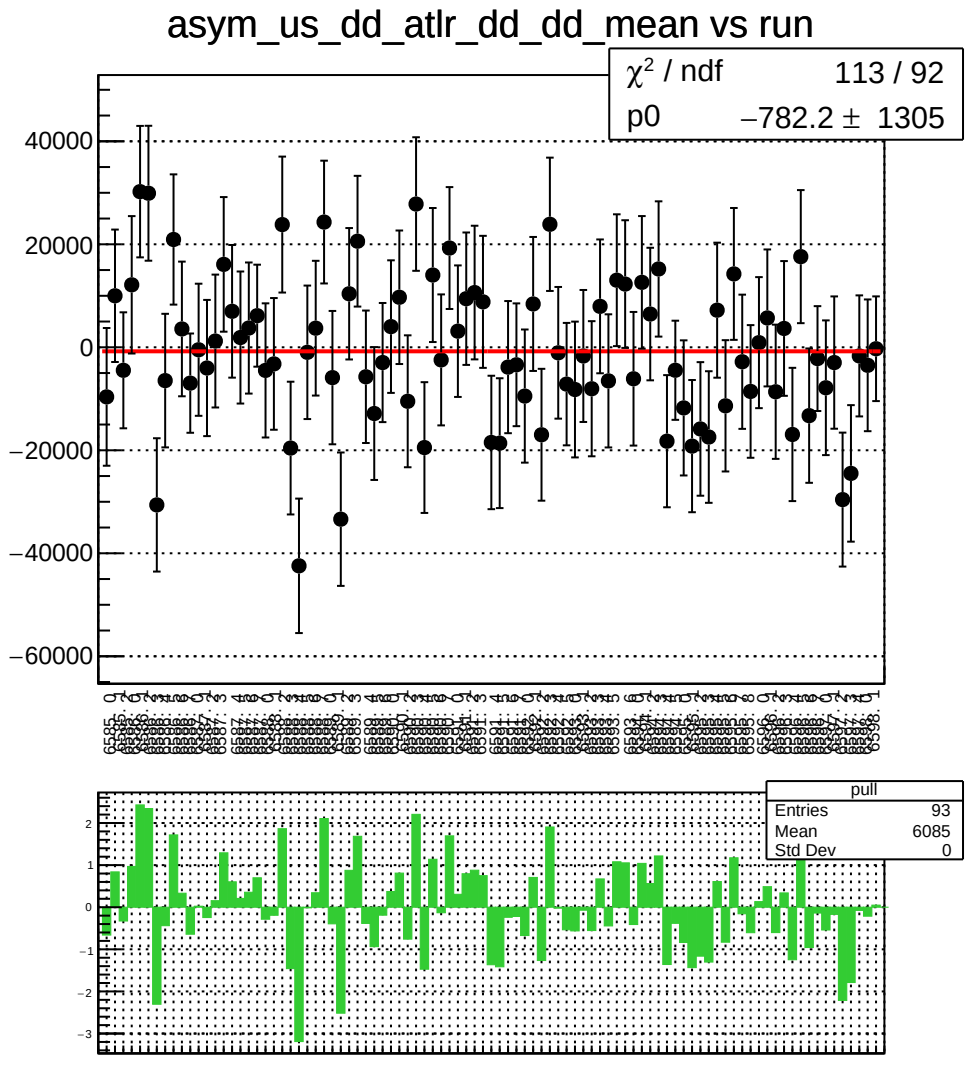

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 102.4 / 92
p0 −838 ± 1238
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 5665
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001085
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

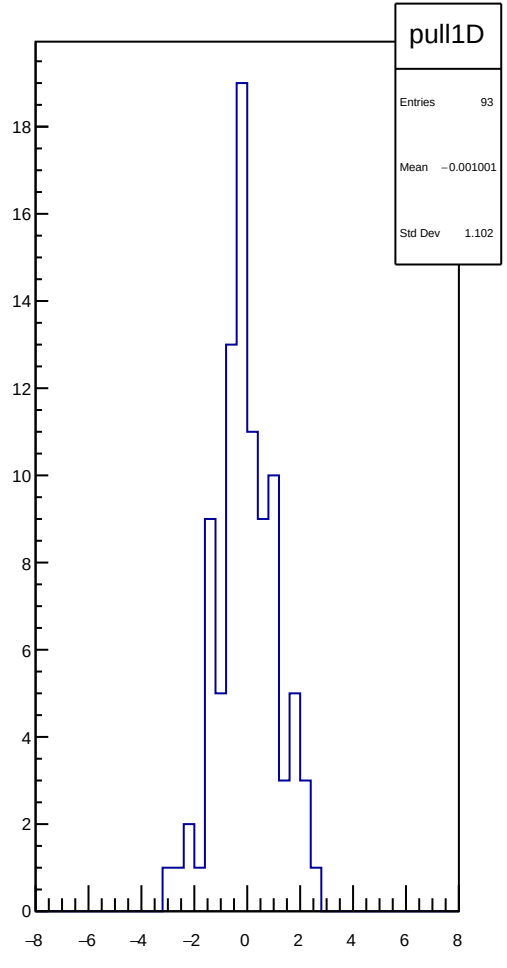

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 104.9 / 92
p0 1165 ± 0.8754
1210
1200
1190
1180
1170
1160
1150
1140
1130

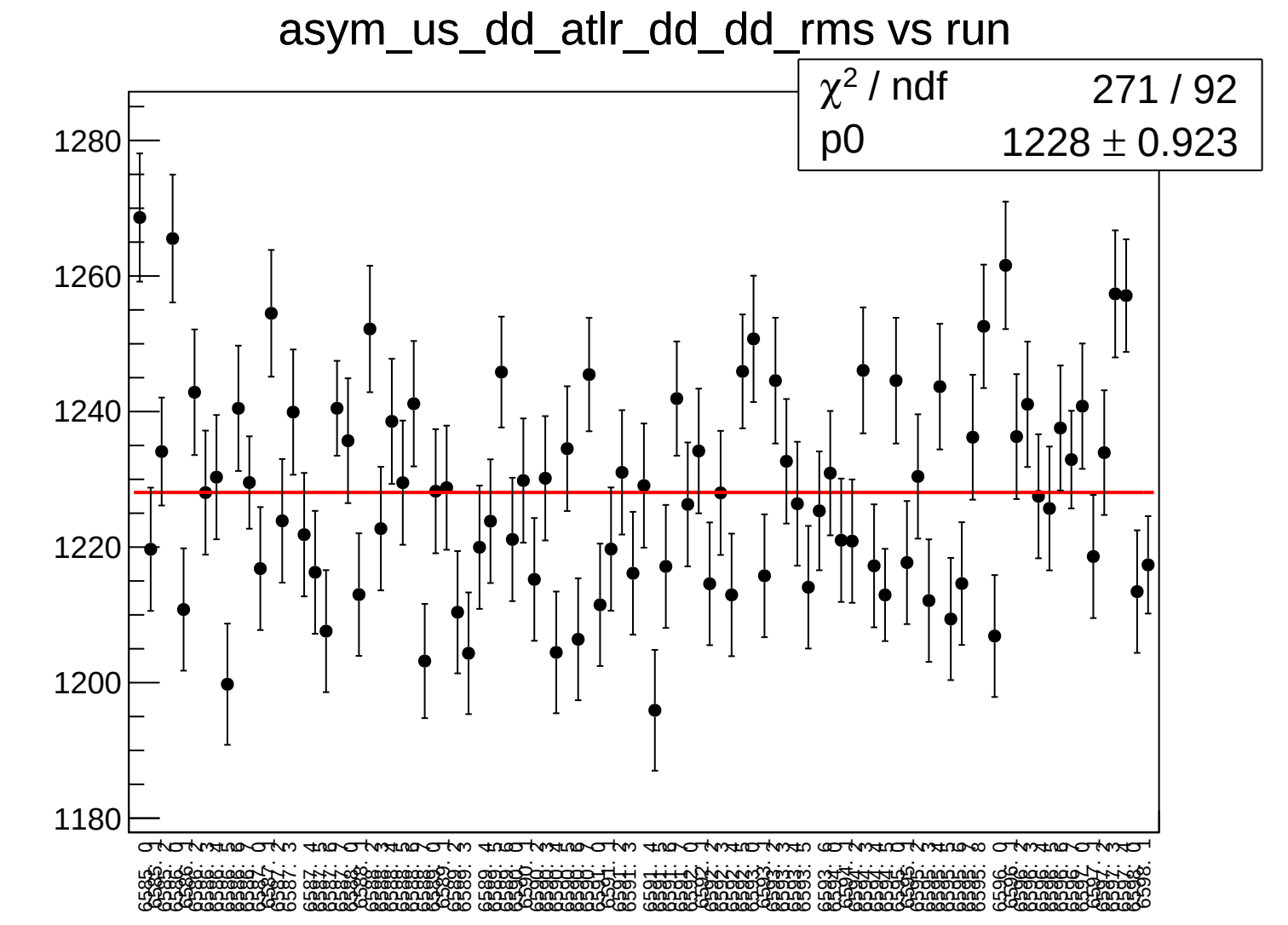

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 95.38 / 92
p0 −85.39 ± 422.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 318.2
Std Dev 0
3
2
1
0
−1
−2

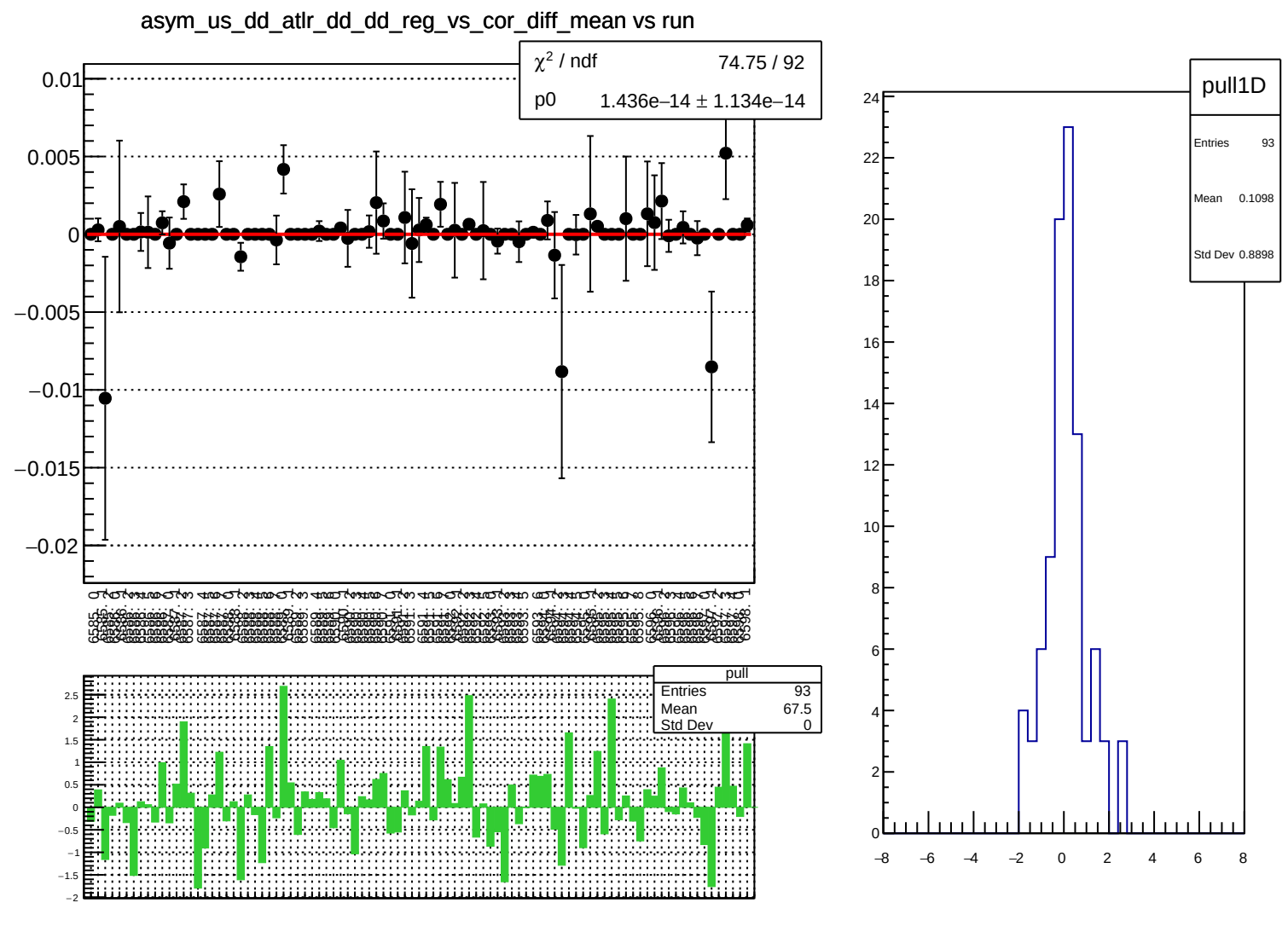

pull1D
Entries 93
Mean 0.00332
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

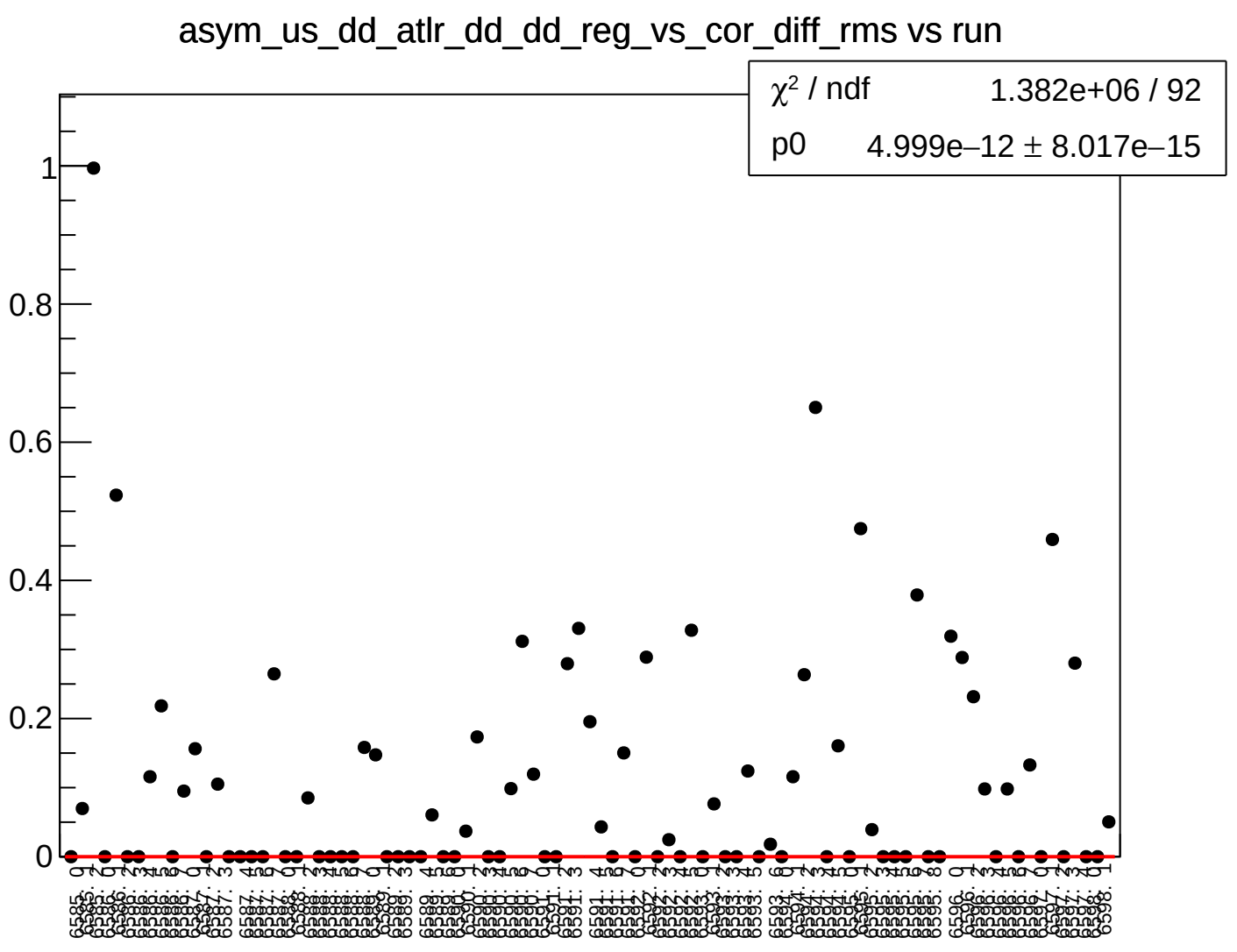

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.601e+04 / 92
p0 395.7 ± 0.2988
520
500
480
460
440
420
400
380
360
340
320

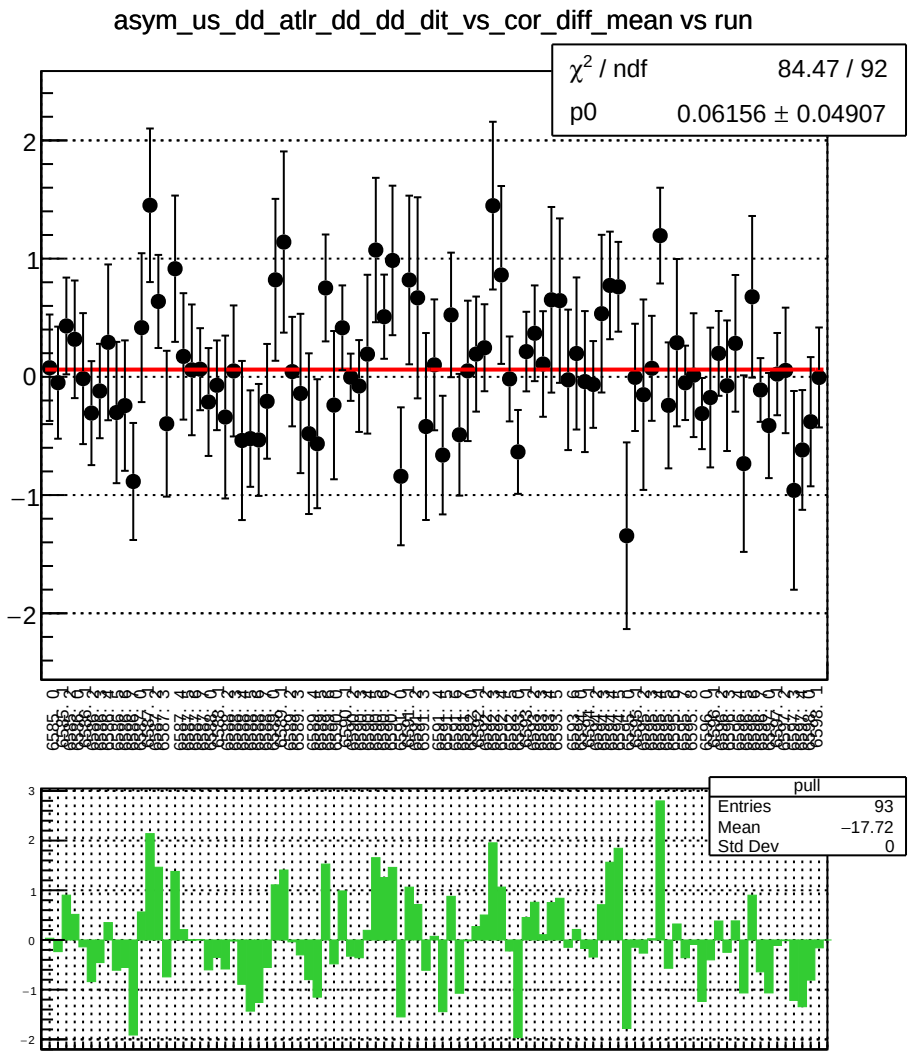

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 113 / 92
p0 −782.2 ± 1305
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 6085
Std Dev 0
2
1
0
−1
−2
−3

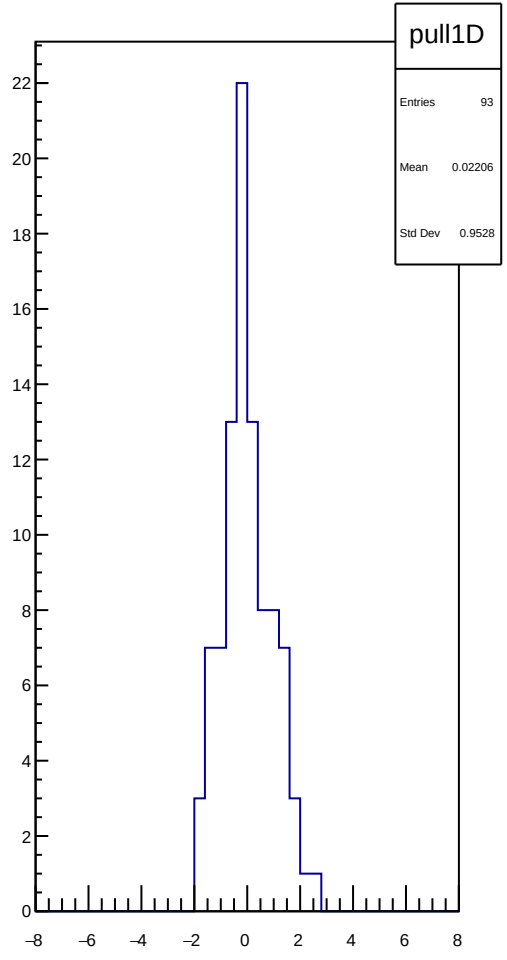

pull1D
Entries 93
Mean −0.001001
Std Dev 1.102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

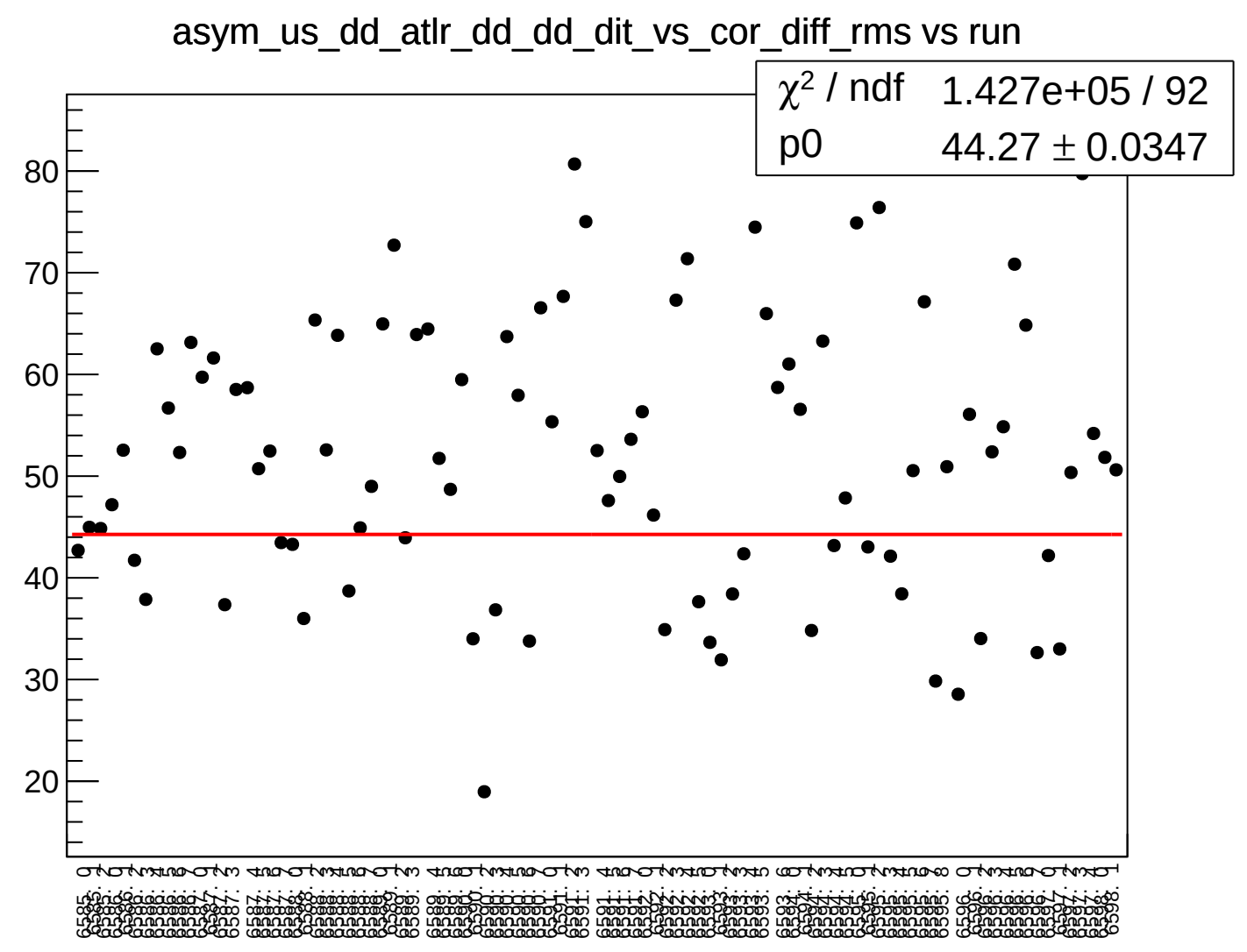

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 271 / 92
p0 1228 ± 0.923
1280
1260
1240
1220
1200
1180

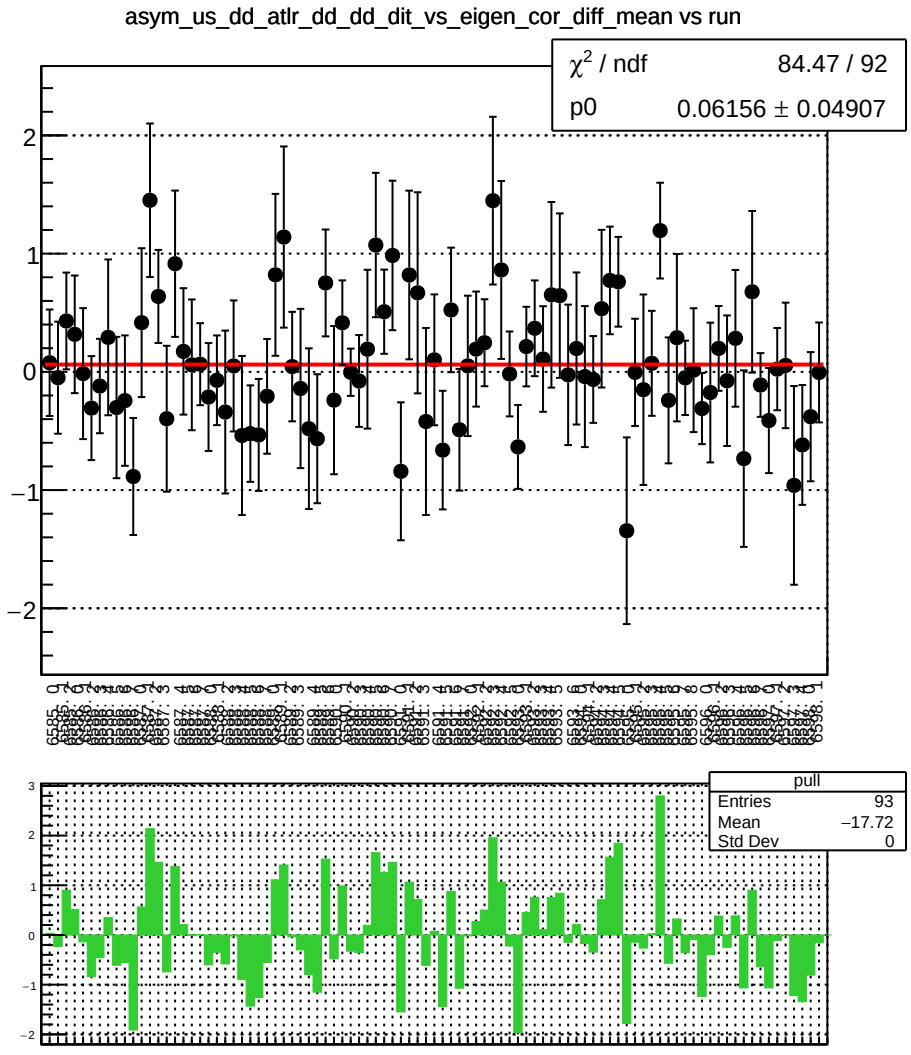

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.75 / 92
p0 1.436e−14 ± 1.134e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 67.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.1098
Std Dev 0.8898
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

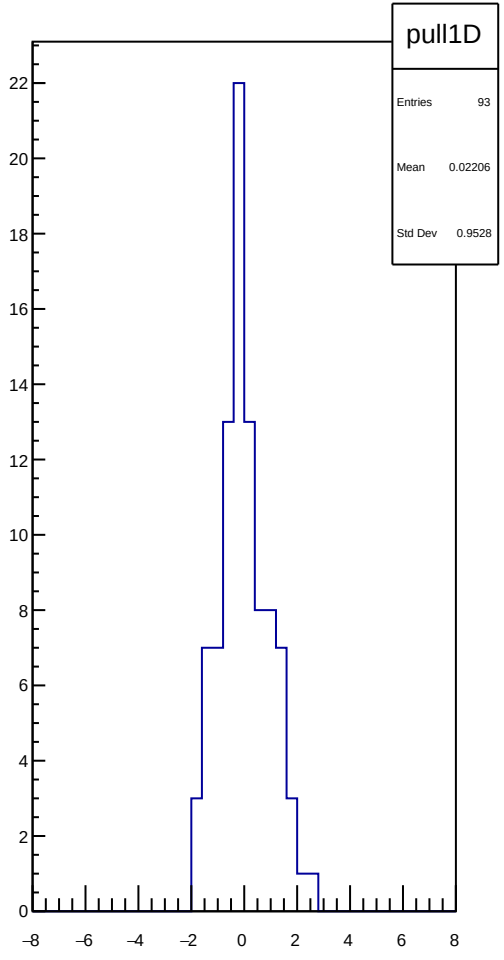

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.382e+06 / 92
p0 4.999e−12 ± 8.017e−15
1
0.8
0.6
0.4
0.2
0

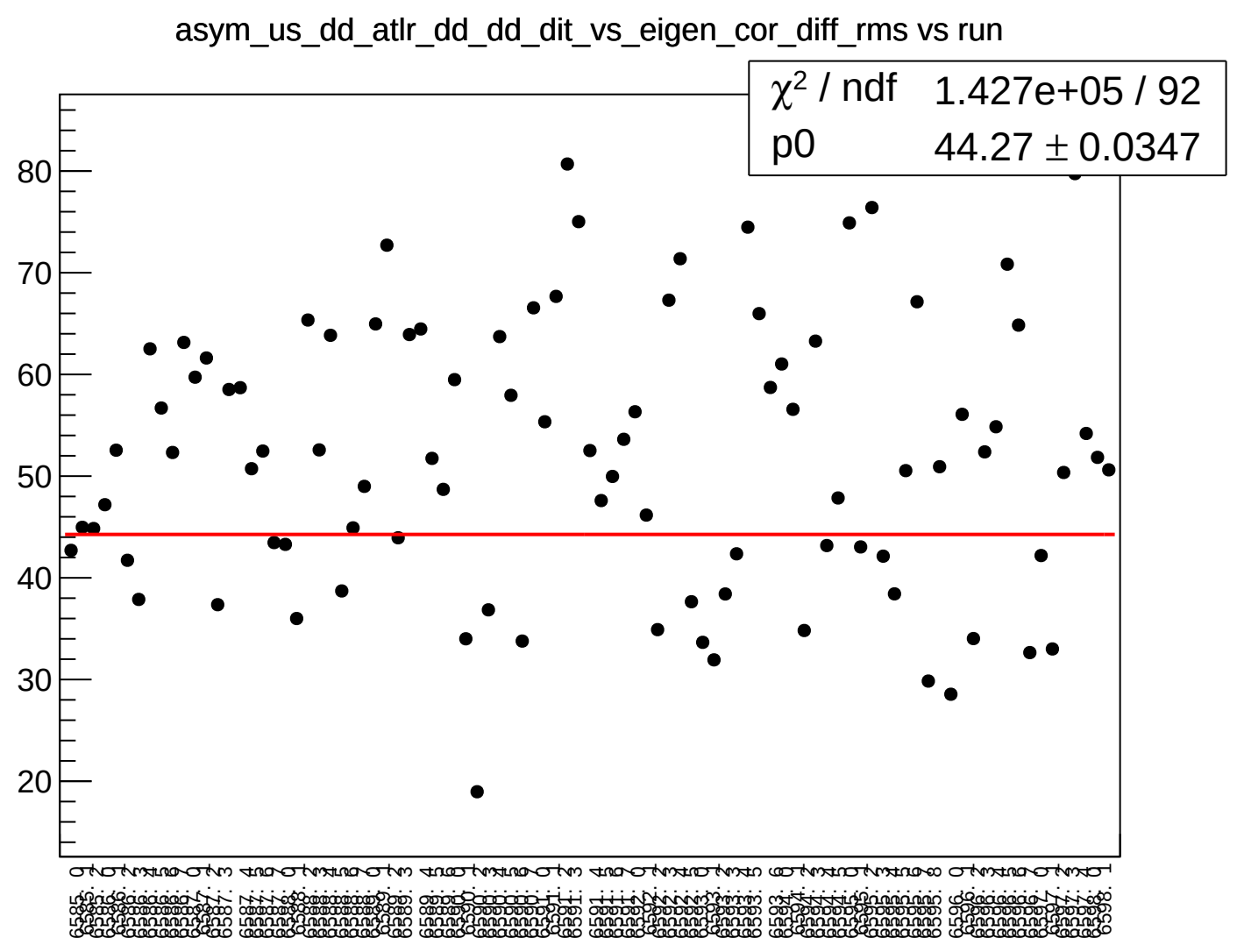

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.47 / 92
p0 0.06156 ± 0.04907
pull
Entries 93
Mean −17.72
Std Dev 0

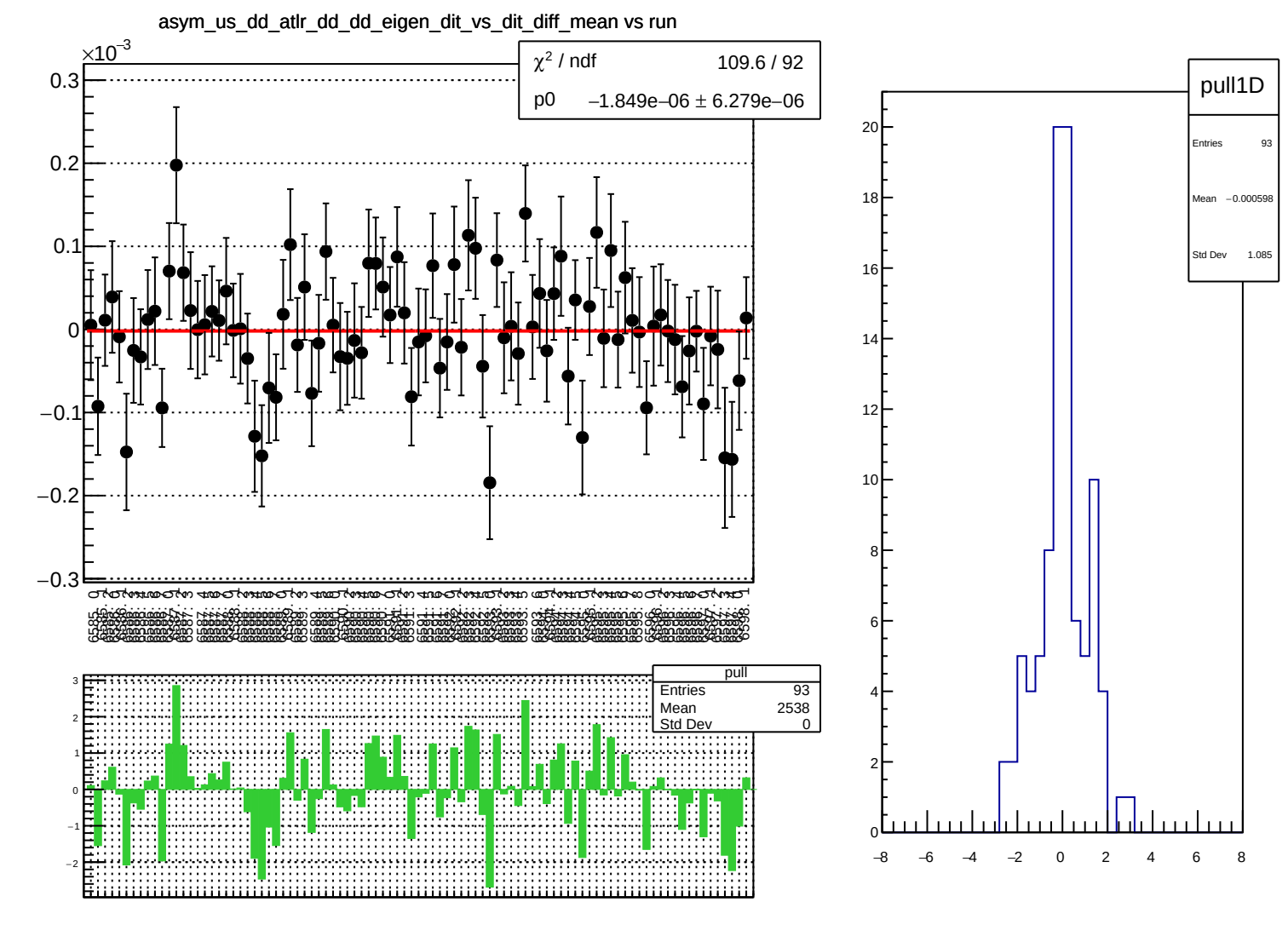

pull1D
Entries 93
Mean 0.02206
Std Dev 0.9528

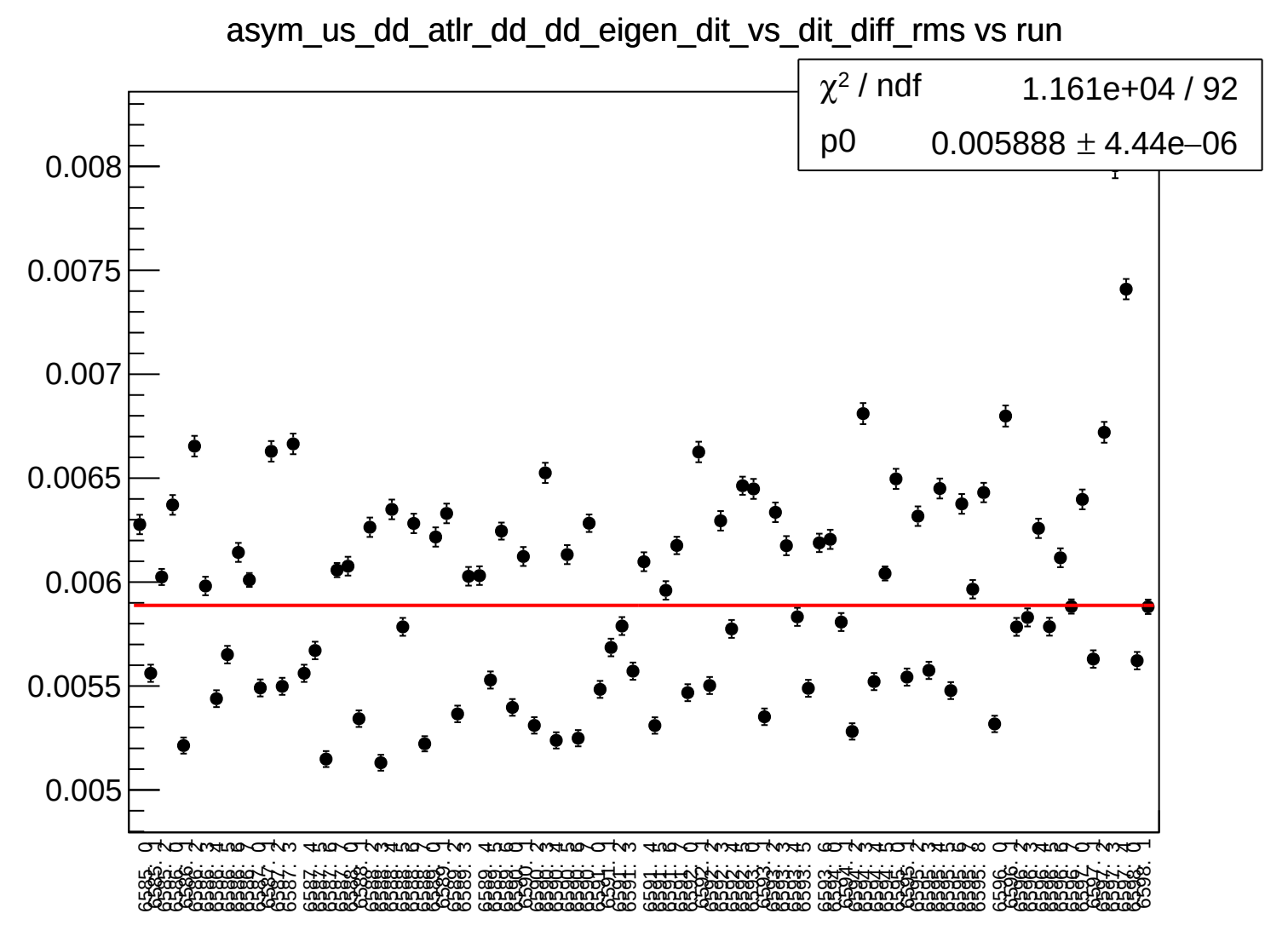

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.427e+05 / 92
p0 44.27 ± 0.0347
80
70
60
50
40
30
20

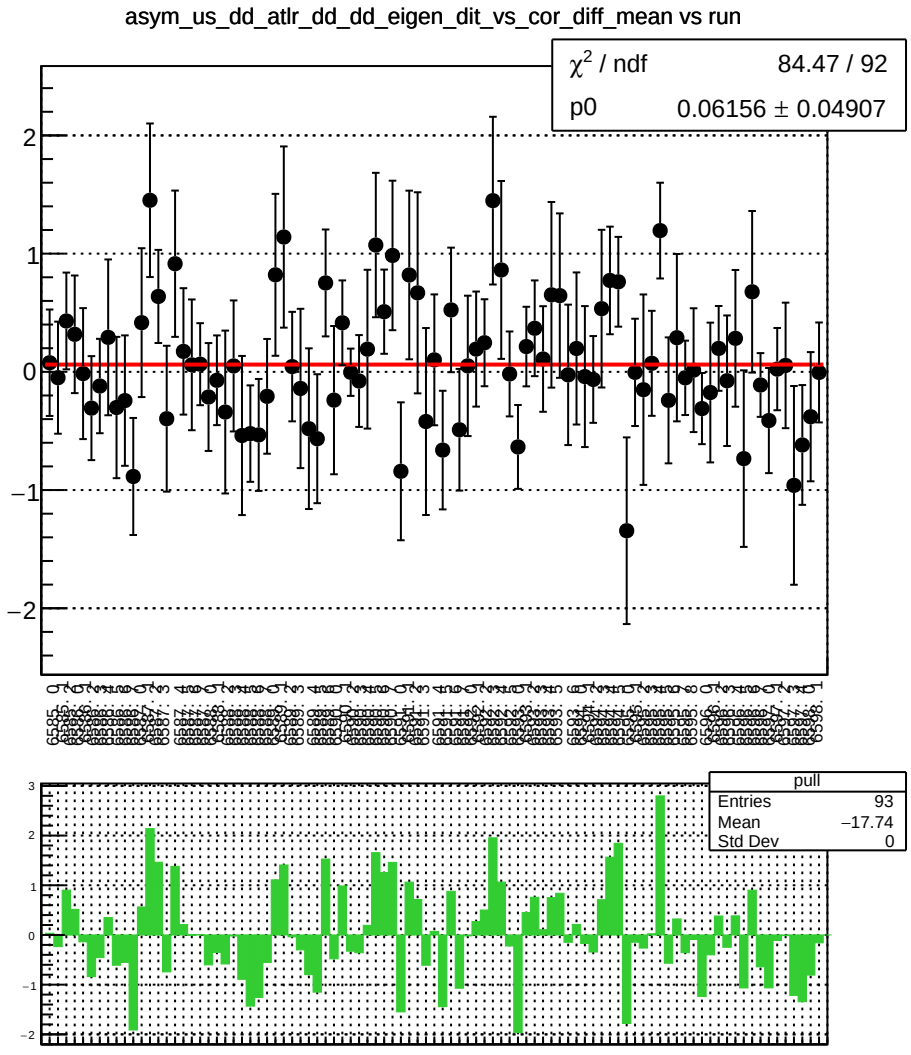

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.47 / 92
p0 0.06156 ± 0.04907
pull
Entries 93
Mean −17.72
Std Dev 0

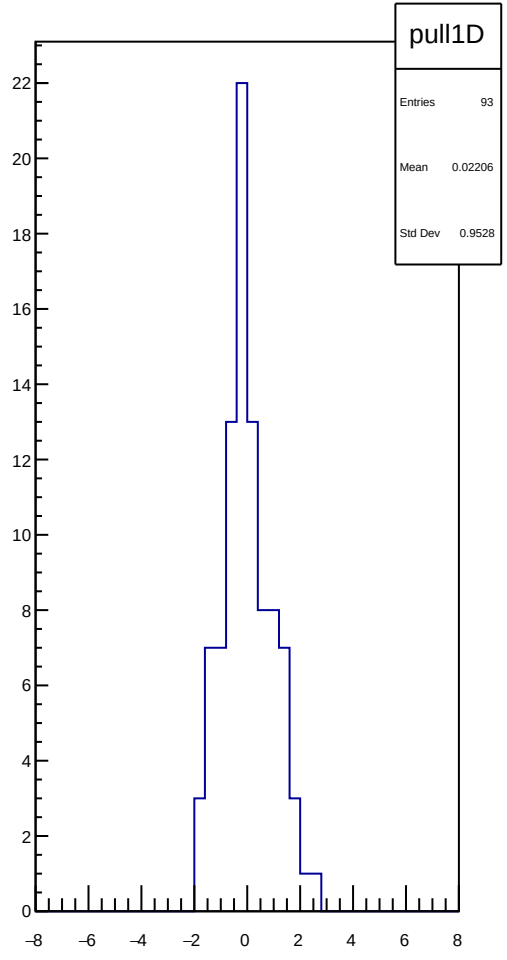

pull1D
Entries 93
Mean 0.02206
Std Dev 0.9528

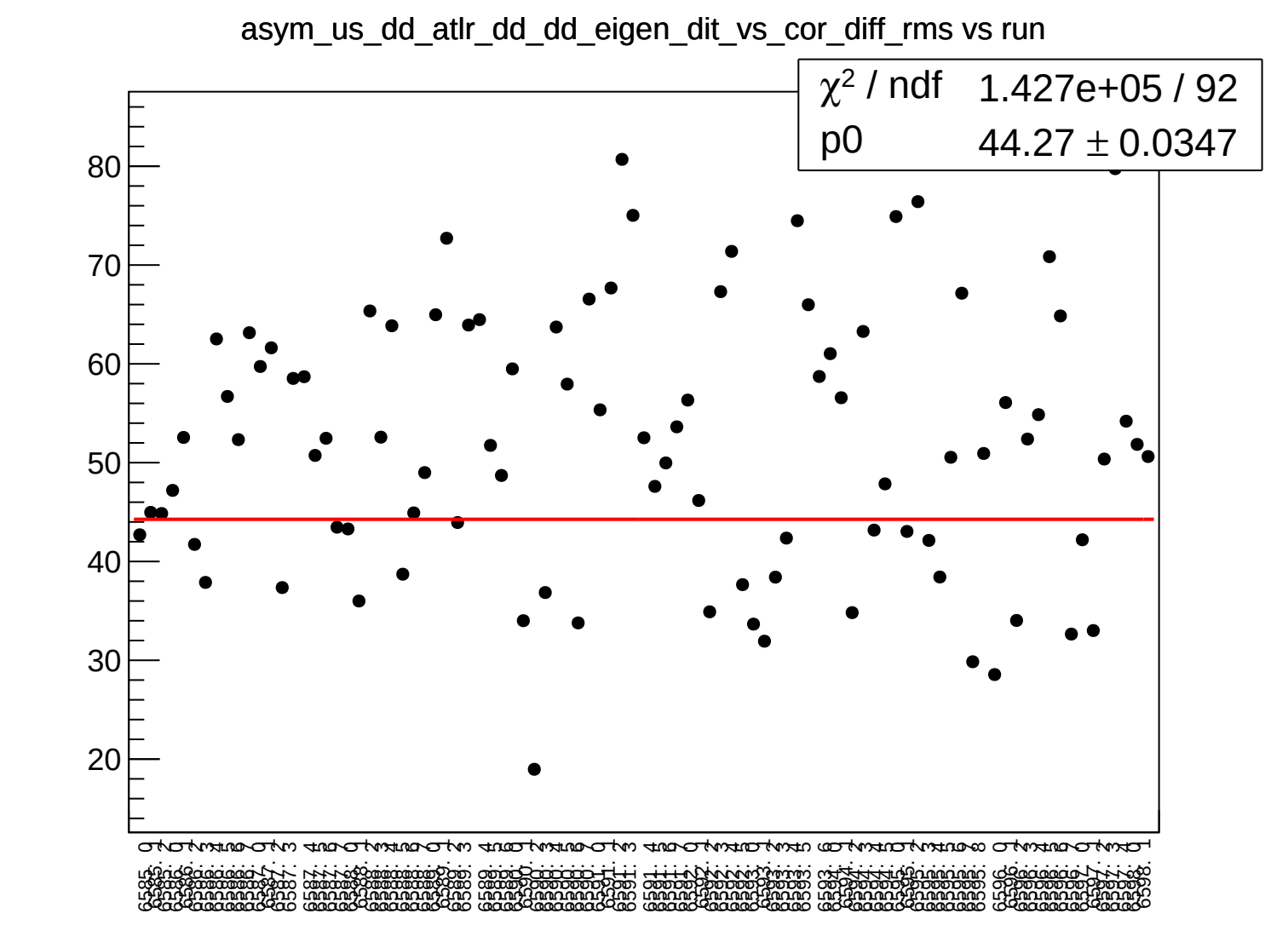

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.427e+05 / 92
p0 44.27 ± 0.0347
80
70
60
50
40
30
20

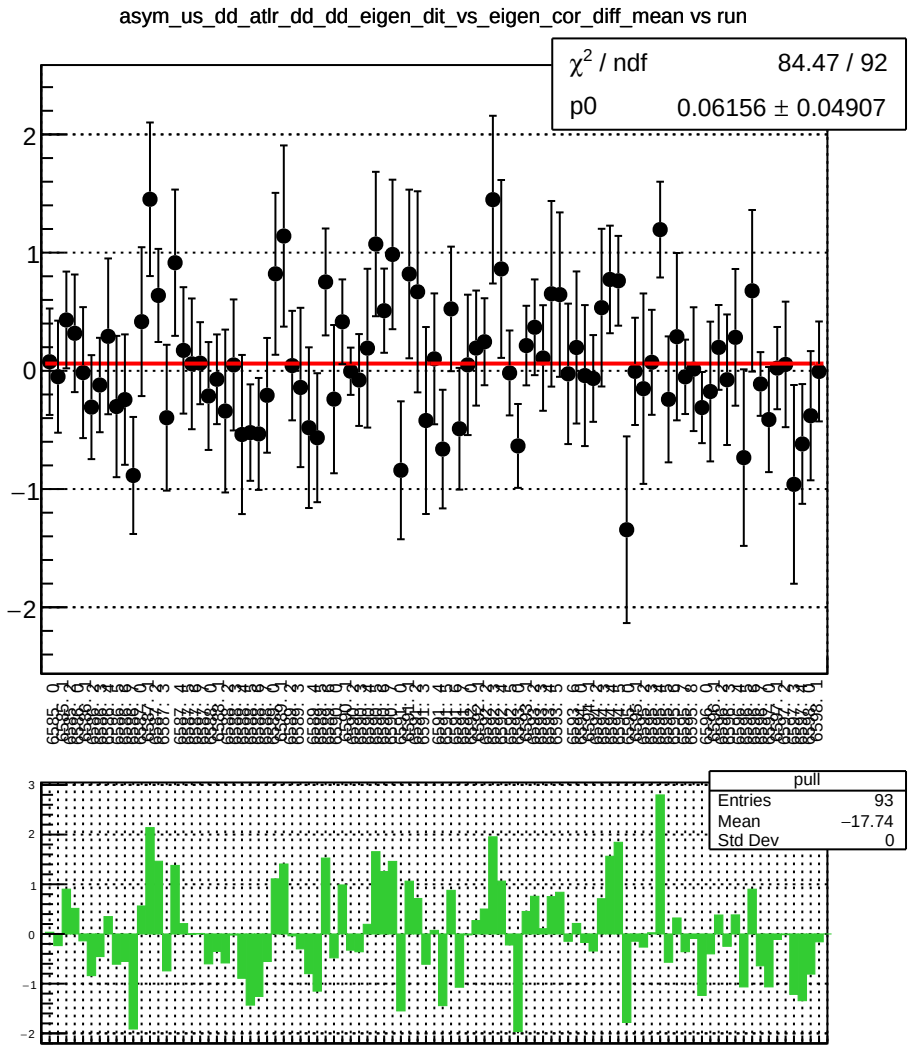

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.6 / 92
p0 −1.849e−06 ± 6.279e−06
pull
Entries 93
Mean 2538
Std Dev 0
pull1D
Entries 93
Mean −0.000598
Std Dev 1.085

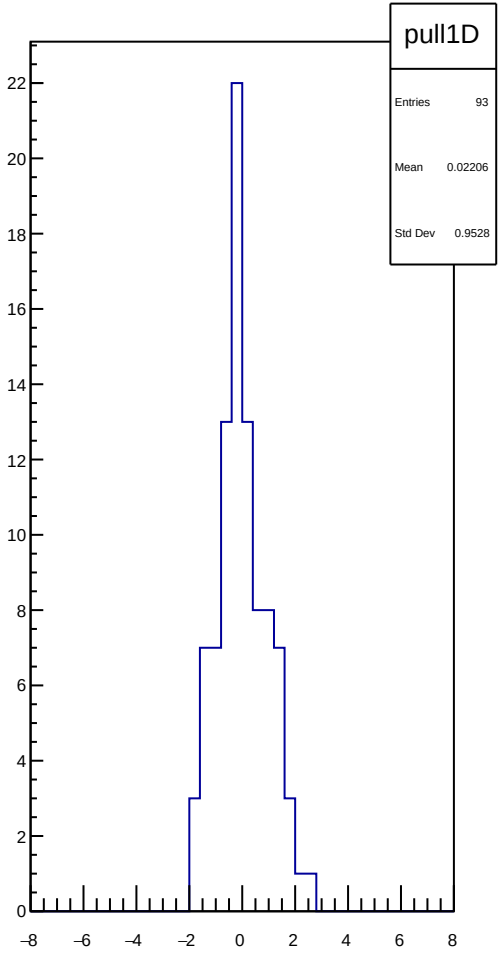

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.161e+04 / 92
p0 0.005888 ± 4.44e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

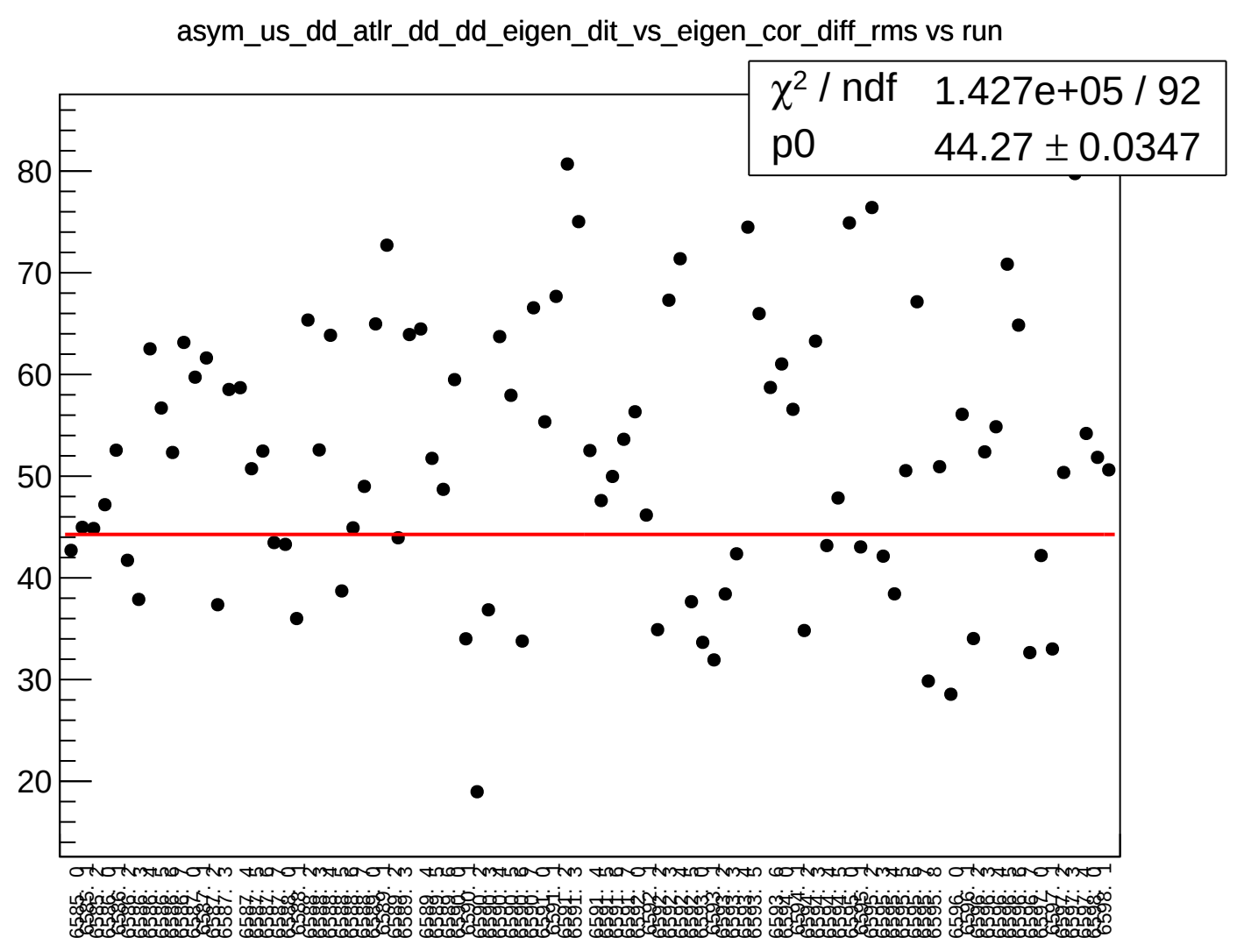

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.47 / 92
p0 0.06156 ± 0.04907
pull
Entries 93
Mean −17.74
Std Dev 0

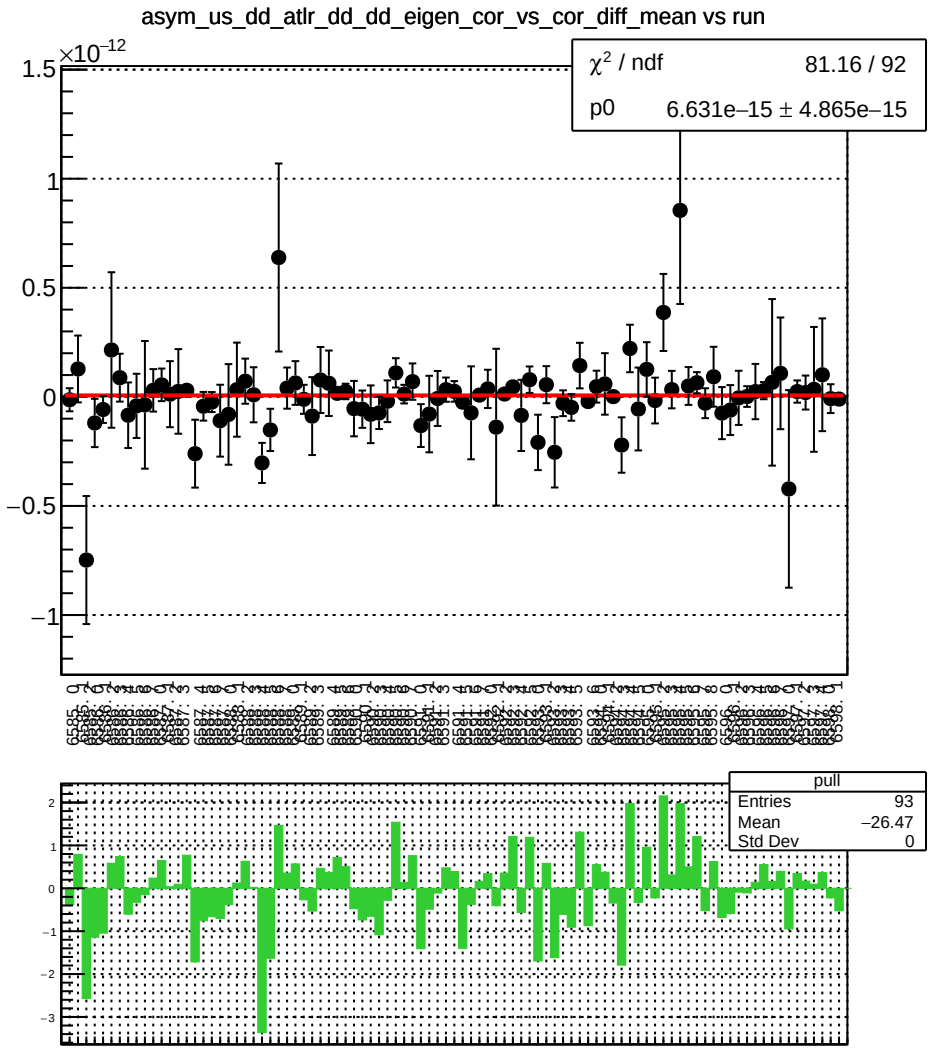

pull1D
Entries 93
Mean 0.02206
Std Dev 0.9528

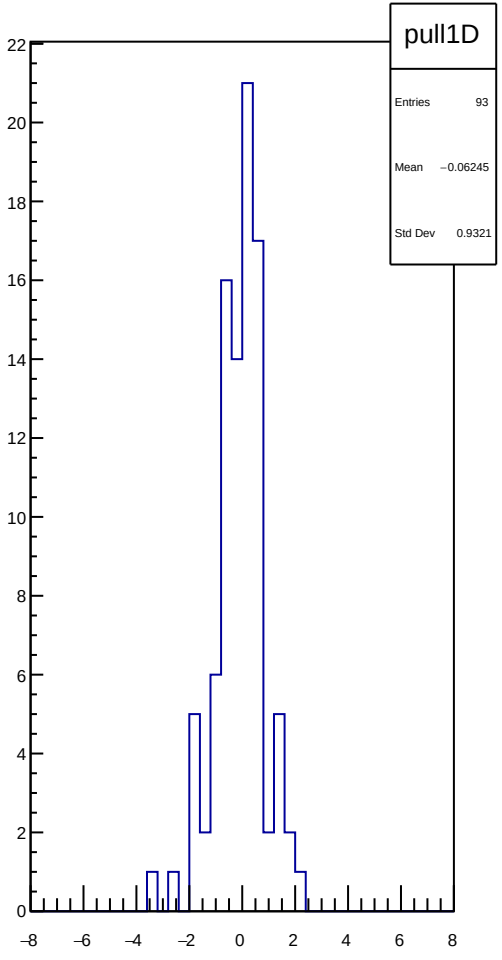

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.427e+05 / 92
p0 44.27 ± 0.0347
80
70
60
50
40
30
20

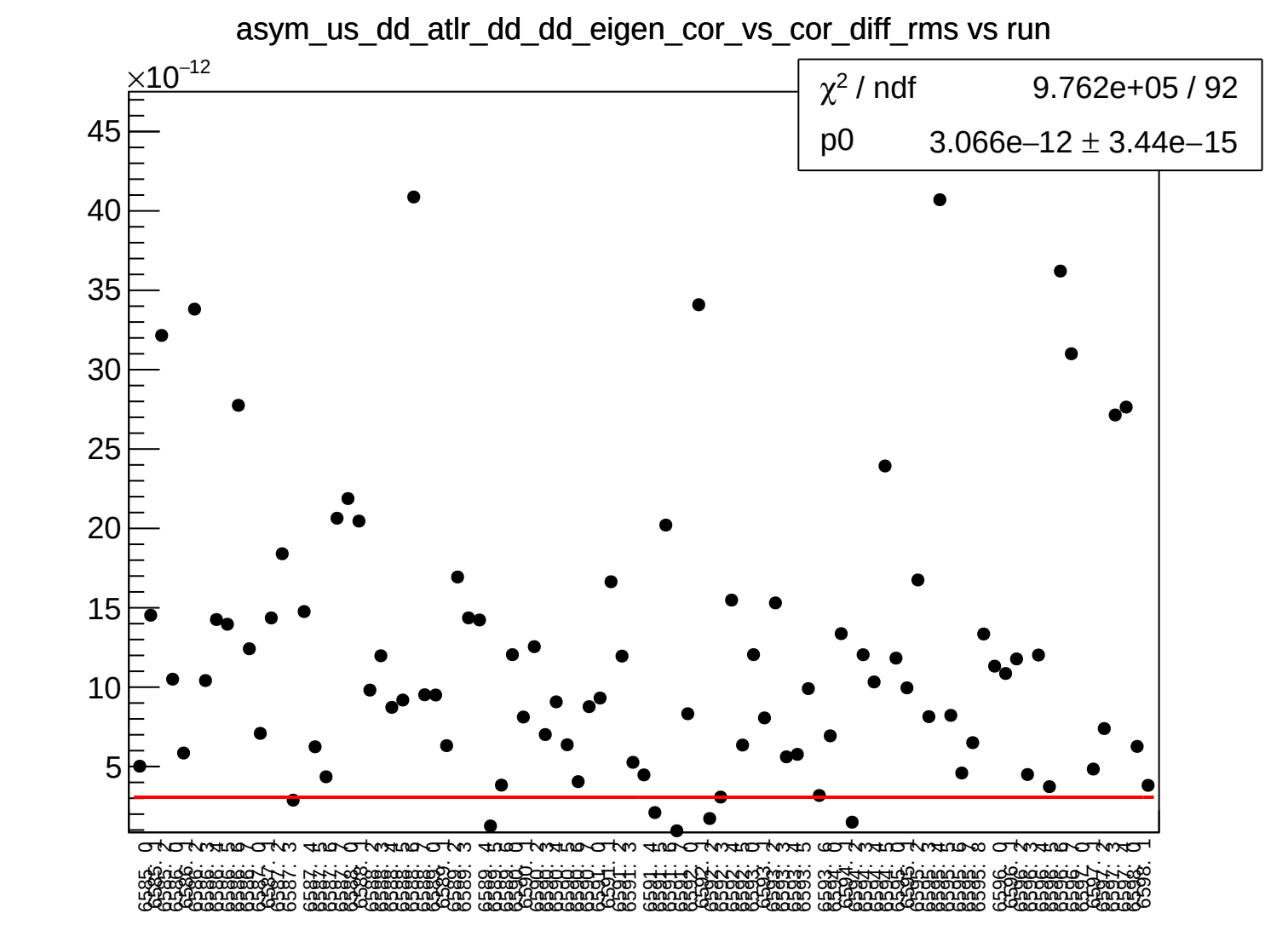

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.47 / 92
p0 0.06156 ± 0.04907
pull
Entries 93
Mean −17.74
Std Dev 0

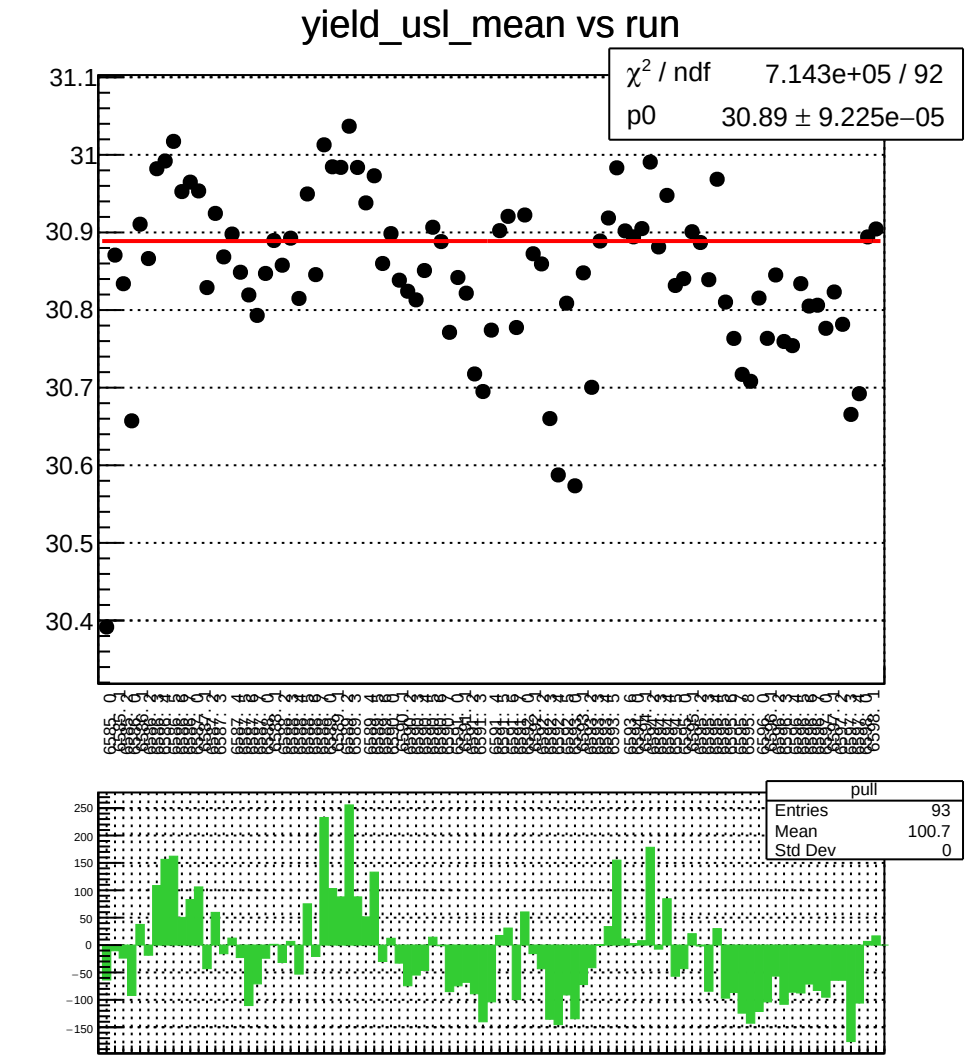

pull1D
Entries 93
Mean 0.02206
Std Dev 0.9528

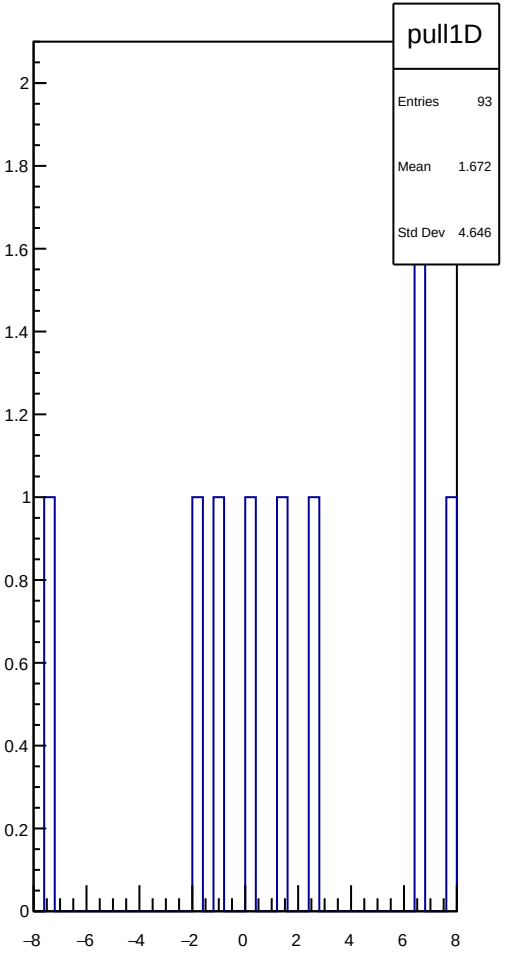

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.427e+05 / 92
p0 44.27 ± 0.0347
80
70
60
50
40
30
20

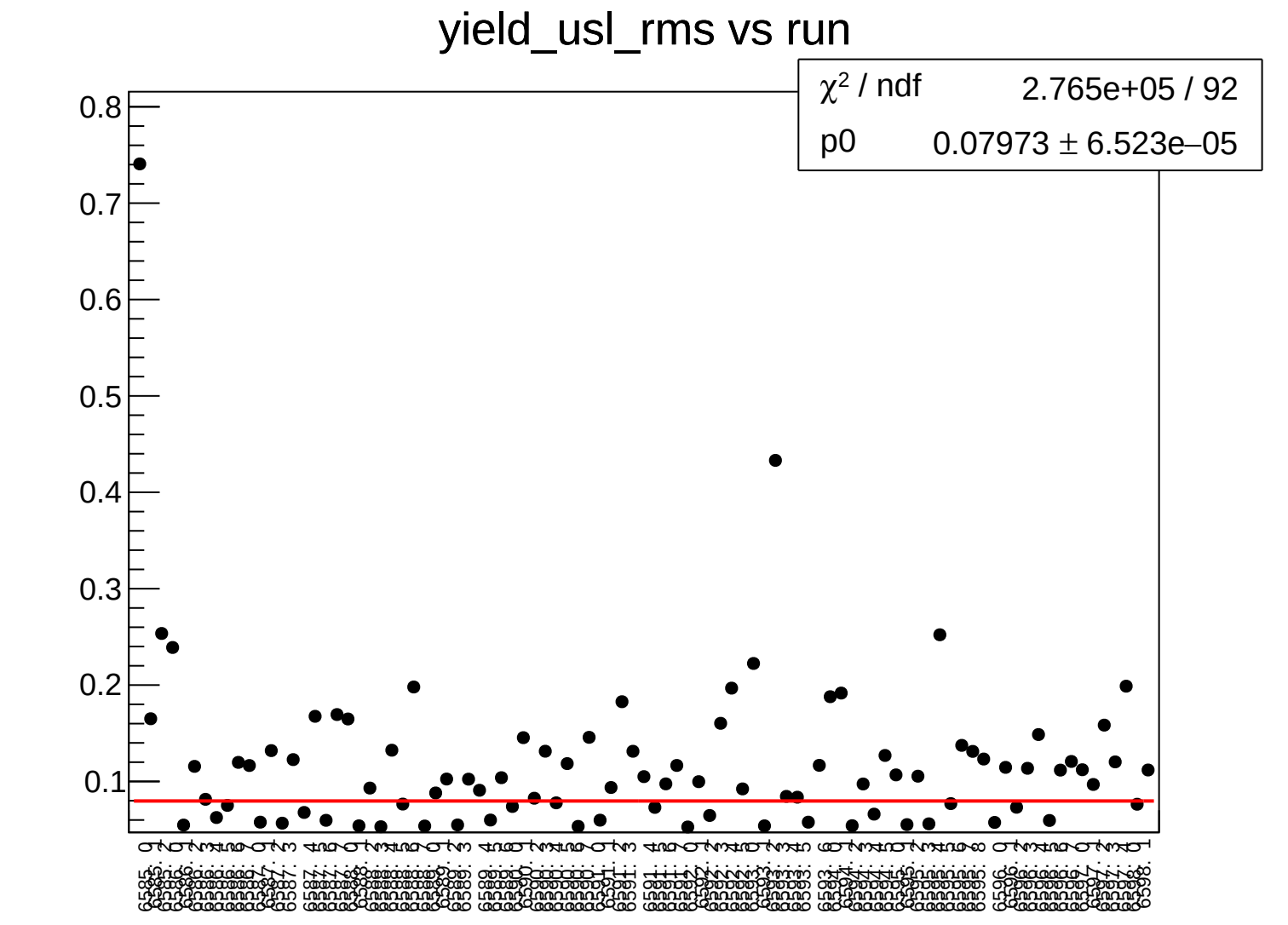

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 81.16 / 92
p0 6.631e−15 ± 4.865e−15
pull
Entries 93
Mean −26.47
Std Dev 0

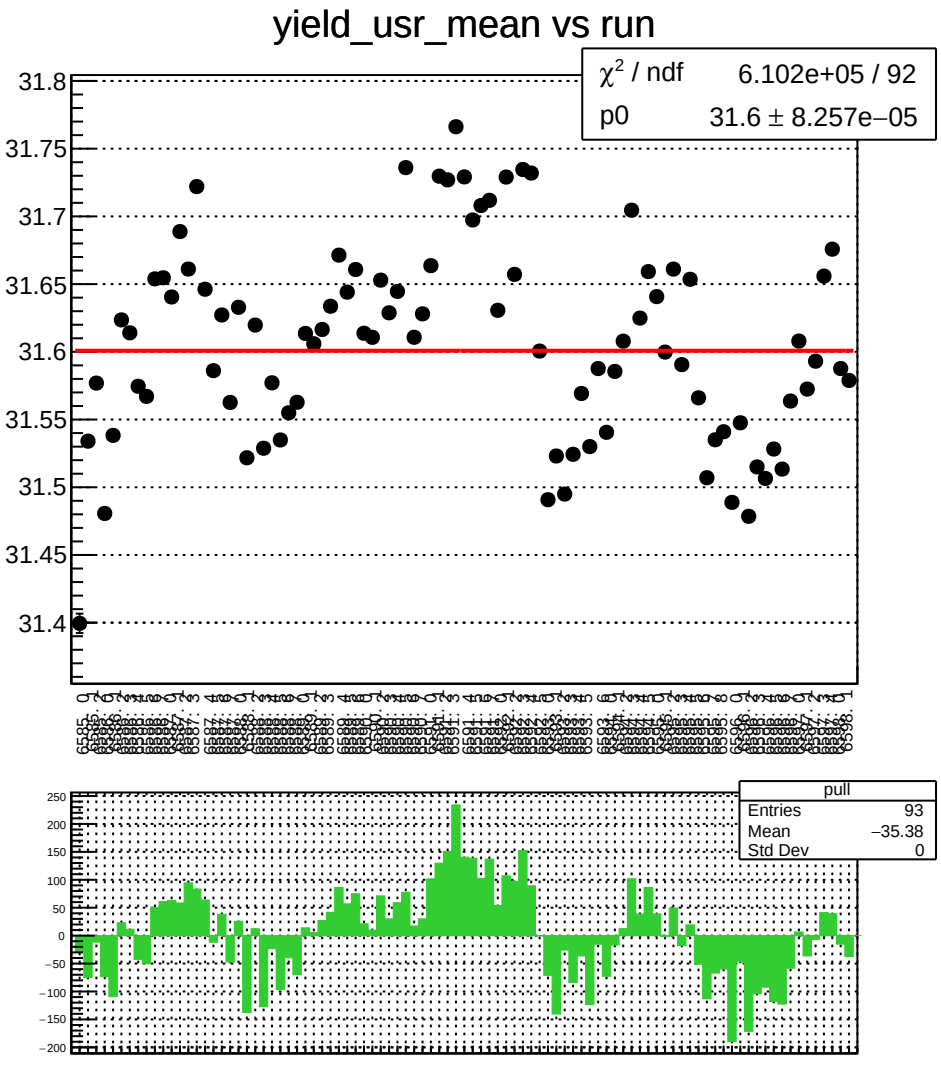

pull1D
Entries 93
Mean −0.06245
Std Dev 0.9321

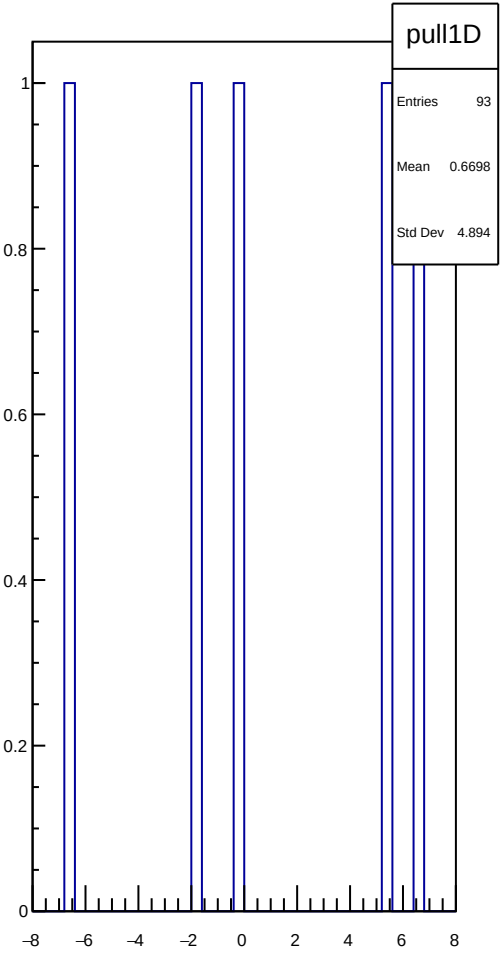

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.762e+05 / 92
p0 3.066e−12 ± 3.44e−15
45
40
35
30
25
20
15
10
5

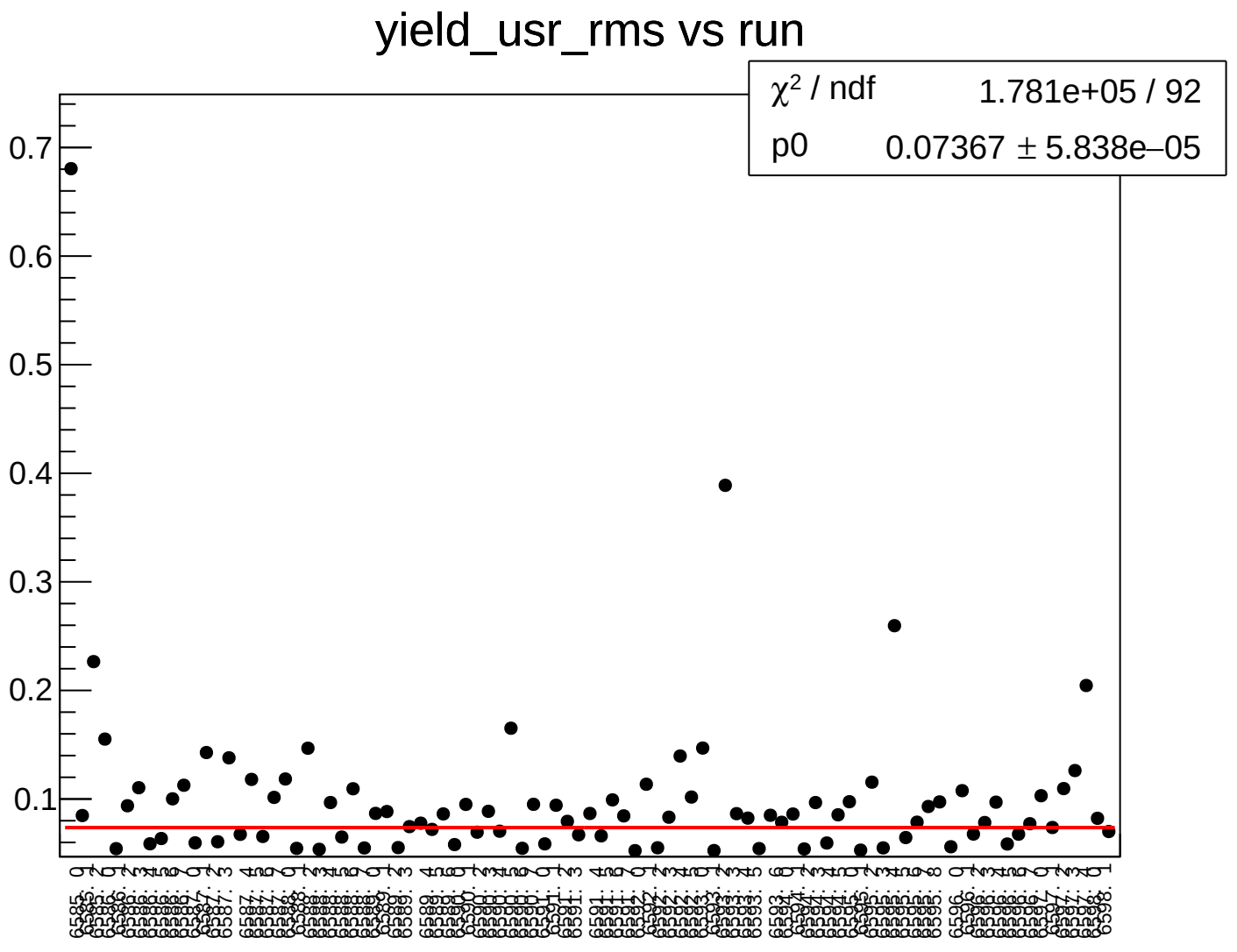

yield_usl_mean vs run
χ² / ndf 7.143e+05 / 92
p0 30.89 ± 9.225e−05
31.1
31
30.9
30.8
30.7
30.6
30.5
30.4
pull
Entries 93
Mean 100.7
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

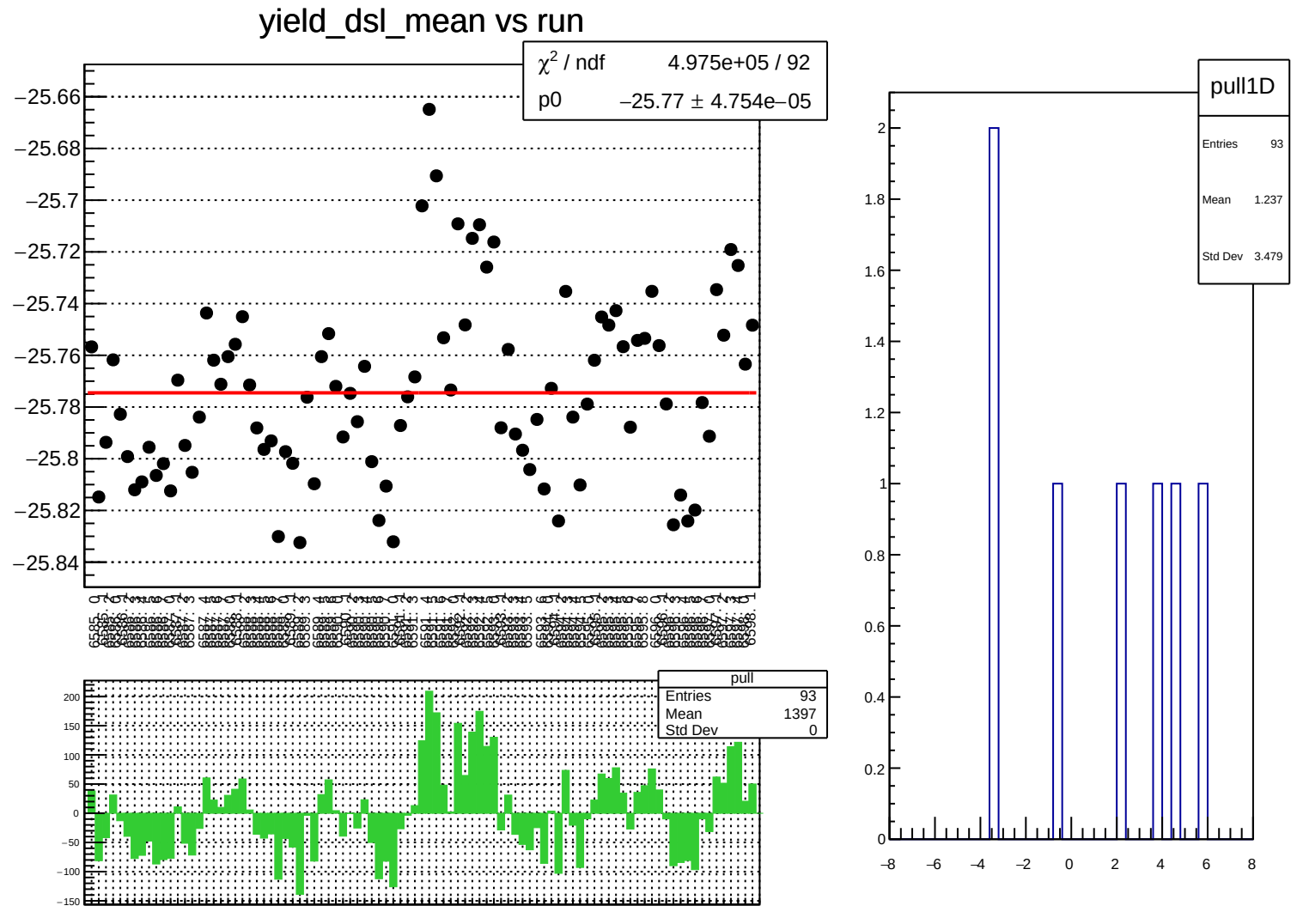

pull1D
Entries 93
Mean 1.672
Std Dev 4.646
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usl_rms vs run
χ² / ndf 2.765e+05 / 92
p0 0.07973 ± 6.523e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

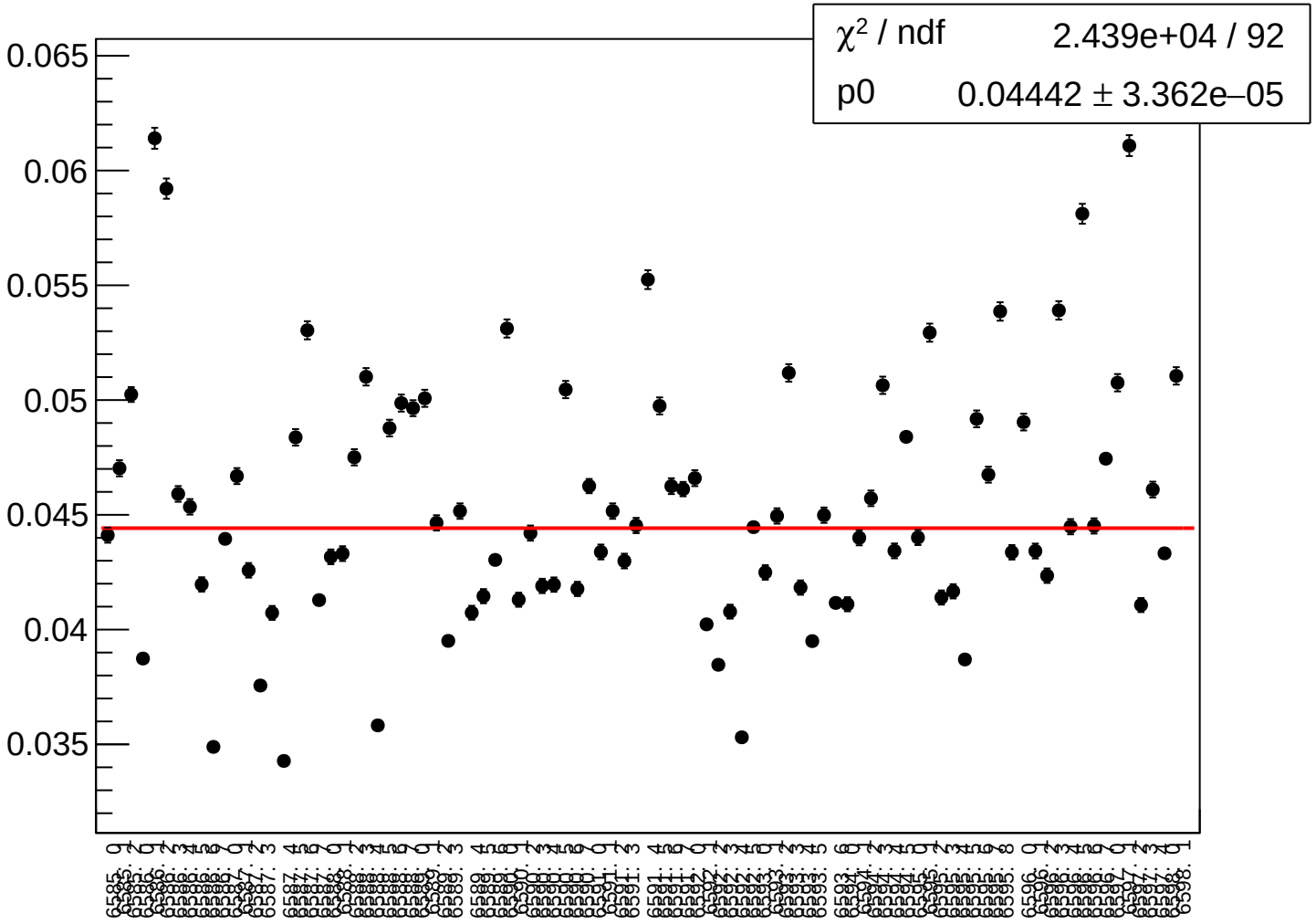

yield_usr_mean vs run
χ² / ndf 6.102e+05 / 92
p0 31.6 ± 8.257e−05
31.8
31.75
31.7
31.65
31.6
31.55
31.5
31.45
31.4
pull
Entries 93
Mean −35.38
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

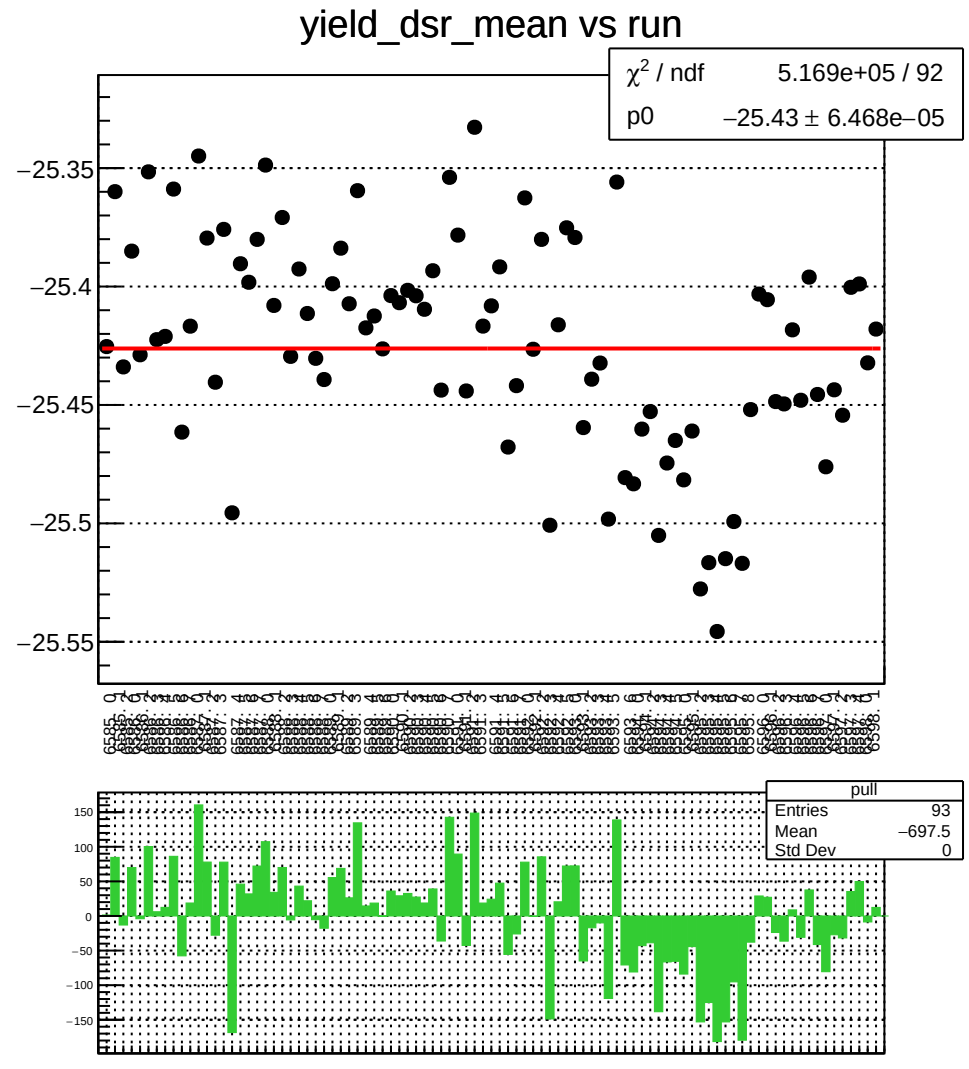

pull1D
Entries 93
Mean 0.6698
Std Dev 4.894
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

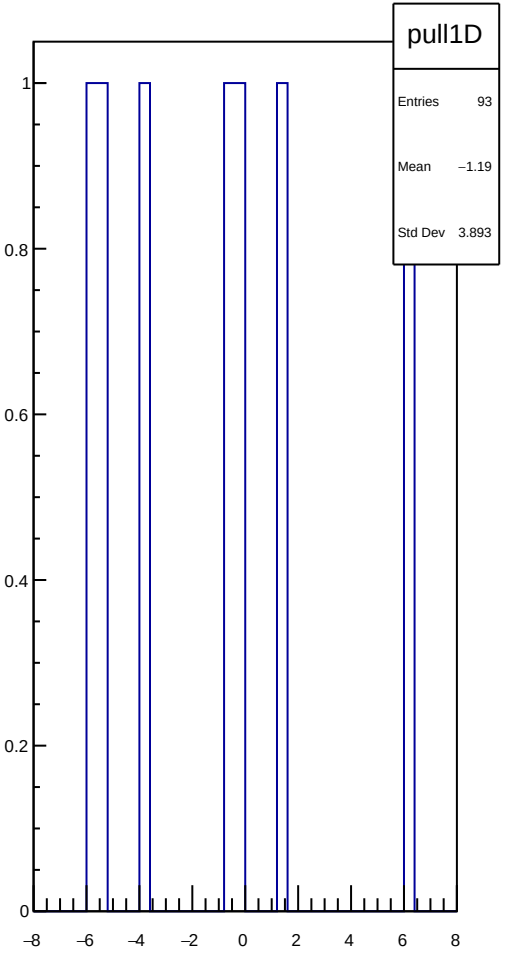

yield_usr_rms vs run
χ^2 / ndf 1.781e+05 / 92
p0 0.07367 ± 5.838e–05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

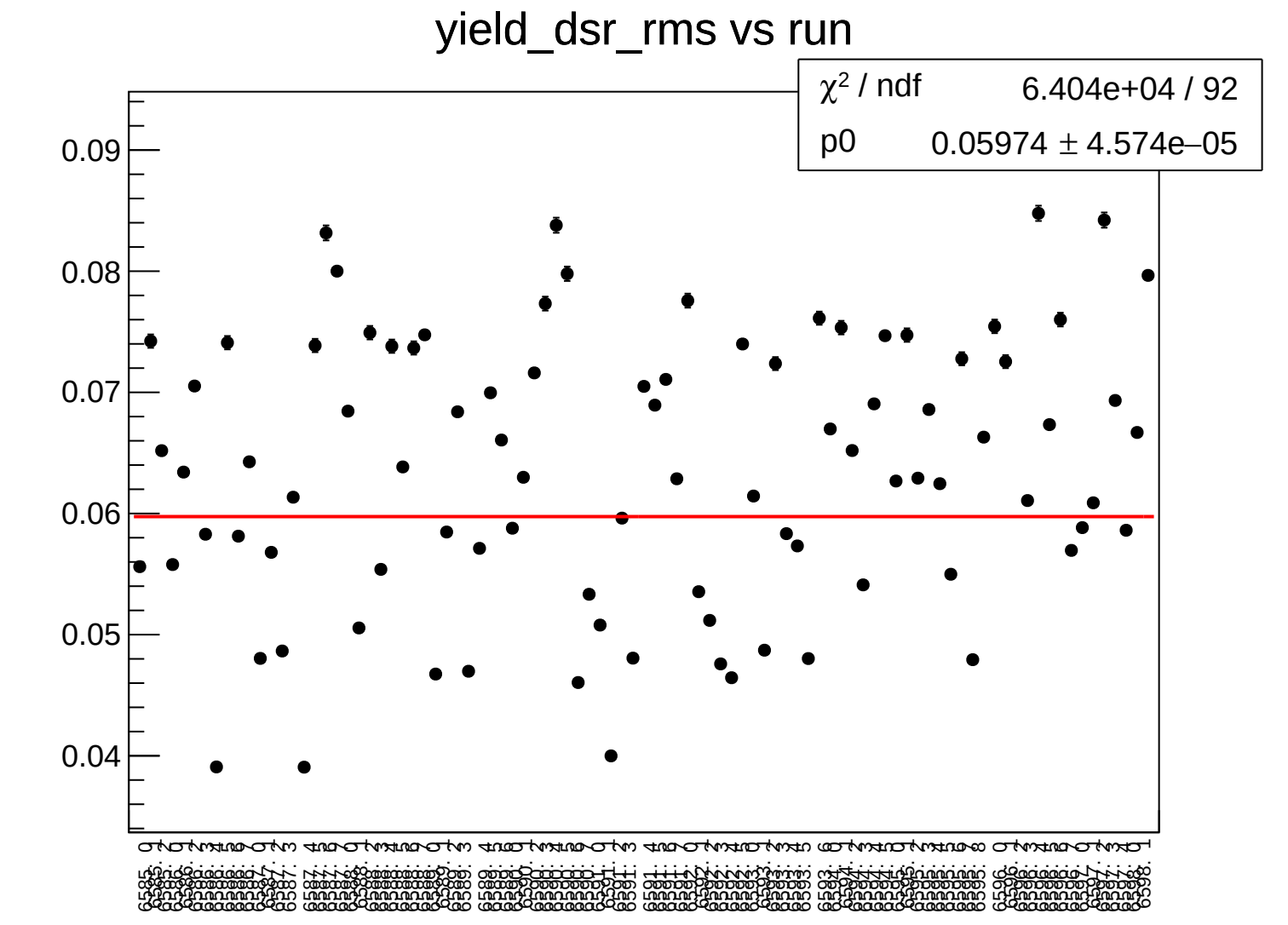

yield_dsl_mean vs run
χ² / ndf 4.975e+05 / 92
p0 −25.77 ± 4.754e−05
−25.66
−25.68
−25.7
−25.72
−25.74
−25.76
−25.78
−25.8
−25.82
−25.84
pull
Entries 93
Mean 1397
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 93
Mean 1.237
Std Dev 3.479
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

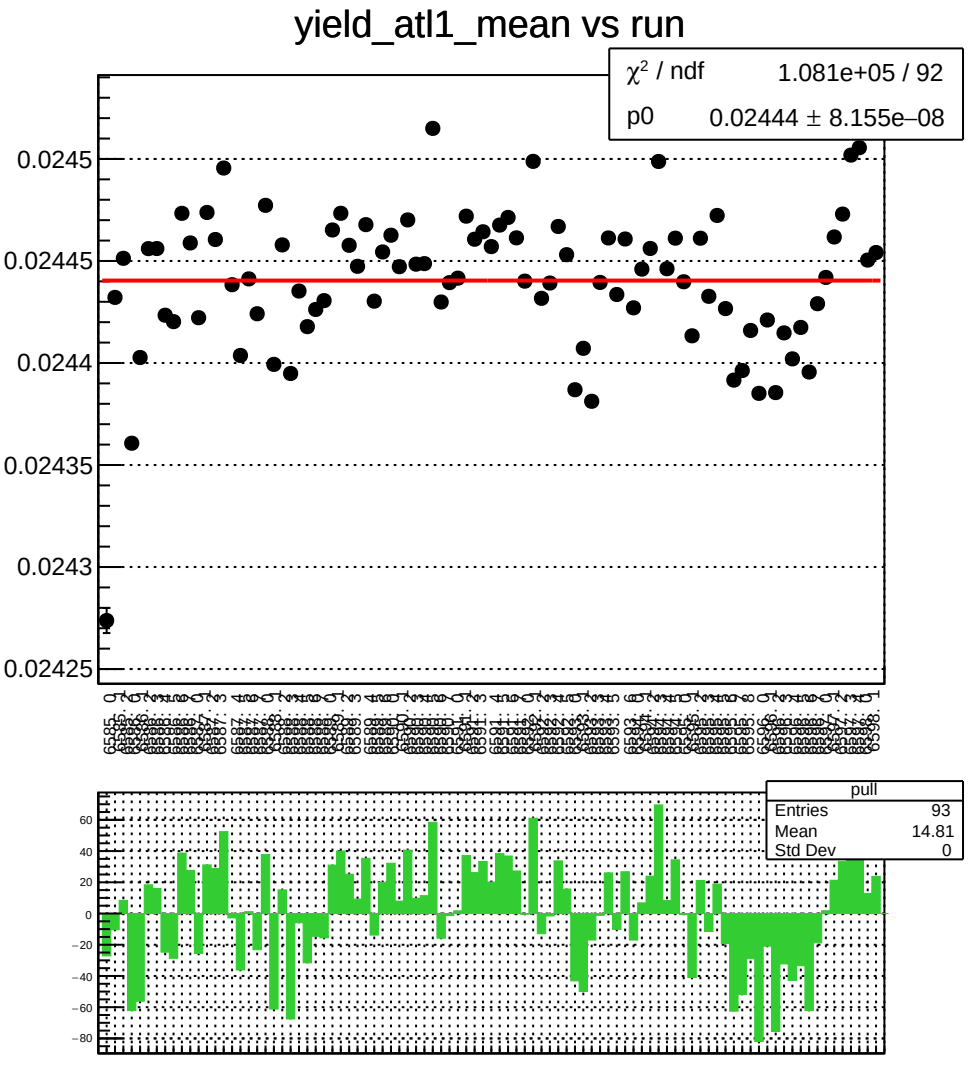
yield_dsl_rms vs run

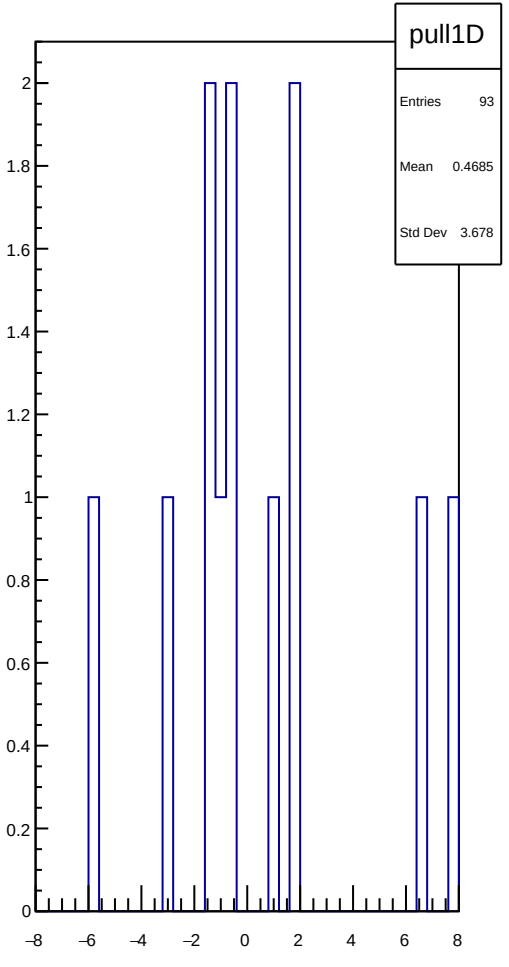


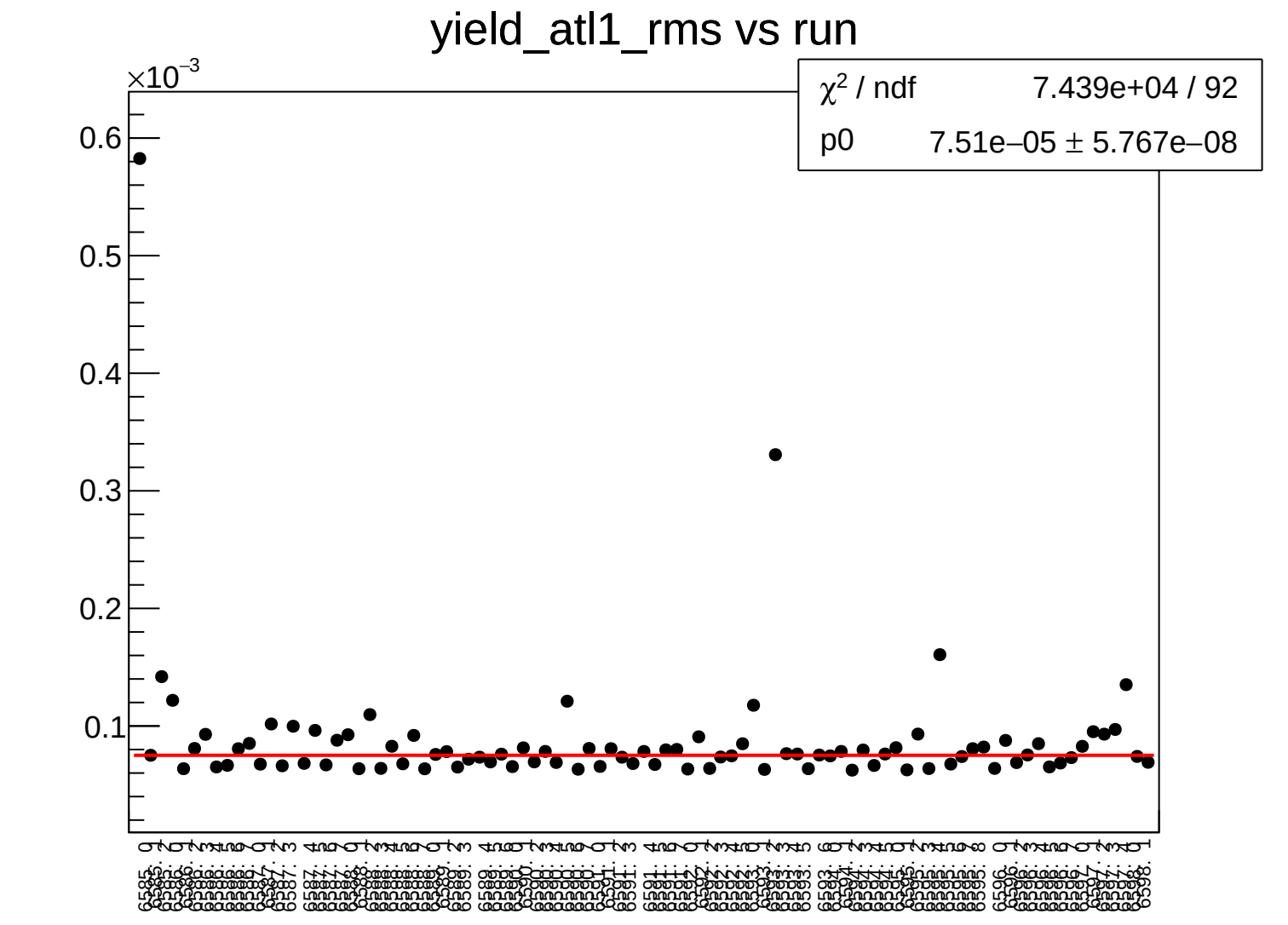

yield_dsr_mean vs run
χ² / ndf 5.169e+05 / 92
p0 −25.43 ± 6.468e−05
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 93
Mean −697.5
Std Dev 0
150
100
50
0
−50
−100
−150

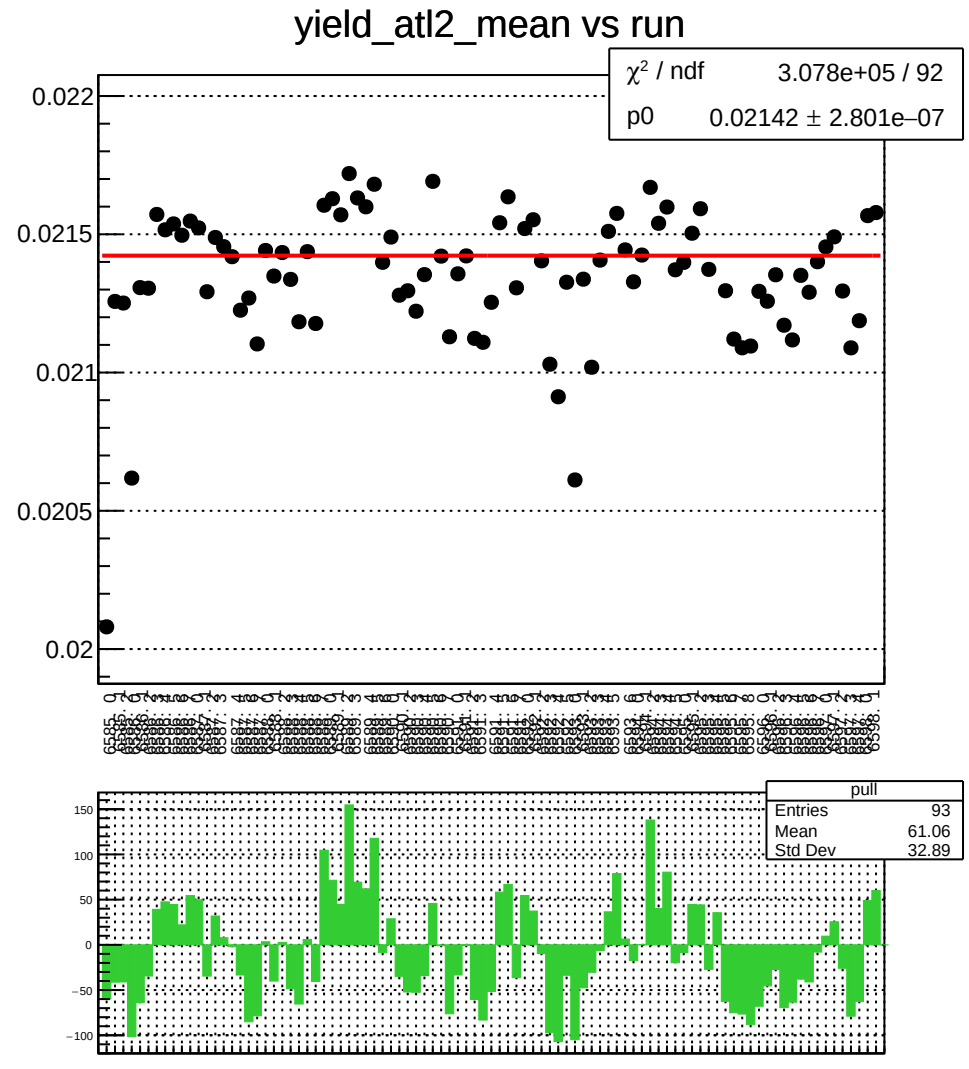

pull1D
Entries 93
Mean −1.19
Std Dev 3.893
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

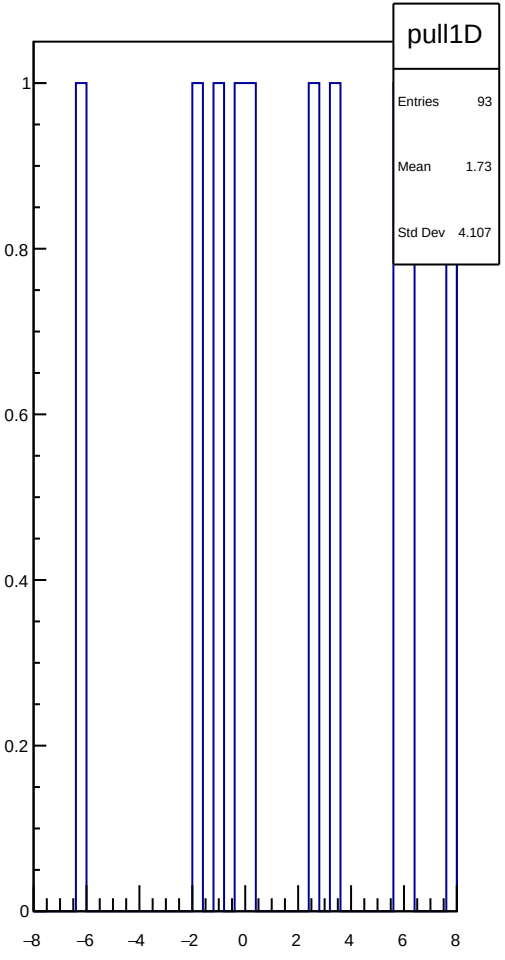

yield_dsr_rms vs run
χ² / ndf 6.404e+04 / 92
p0 0.05974 ± 4.574e−05
0.09
0.08
0.07
0.06
0.05
0.04

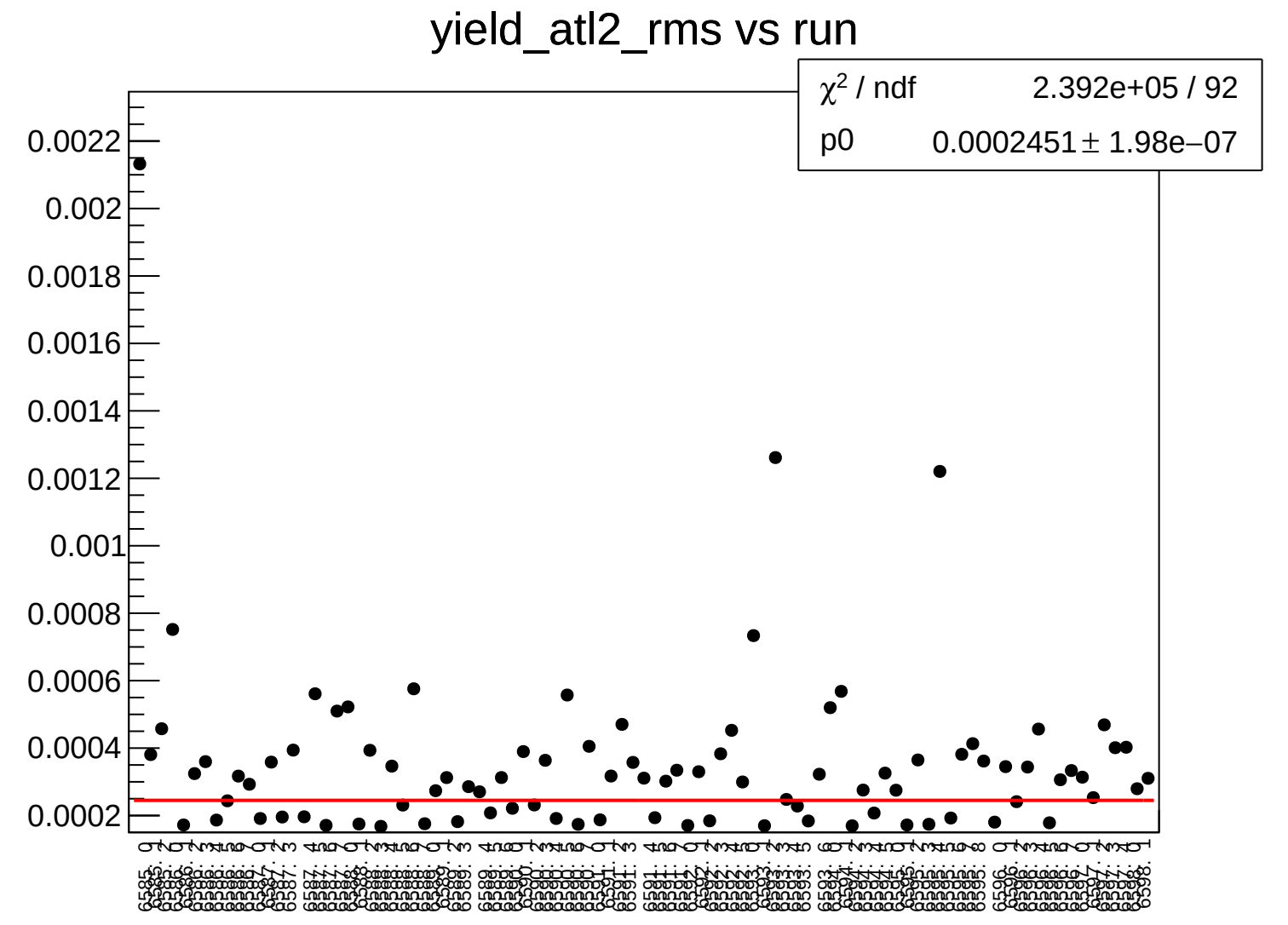

yield_atl1_mean vs run
χ² / ndf 1.081e+05 / 92
p0 0.02444 ± 8.155e−08
0.0245
0.02445
0.0244
0.02435
0.0243
0.02425
pull
Entries 93
Mean 14.81
Std Dev 0
60
40
20
0
−20
−40
−60
−80

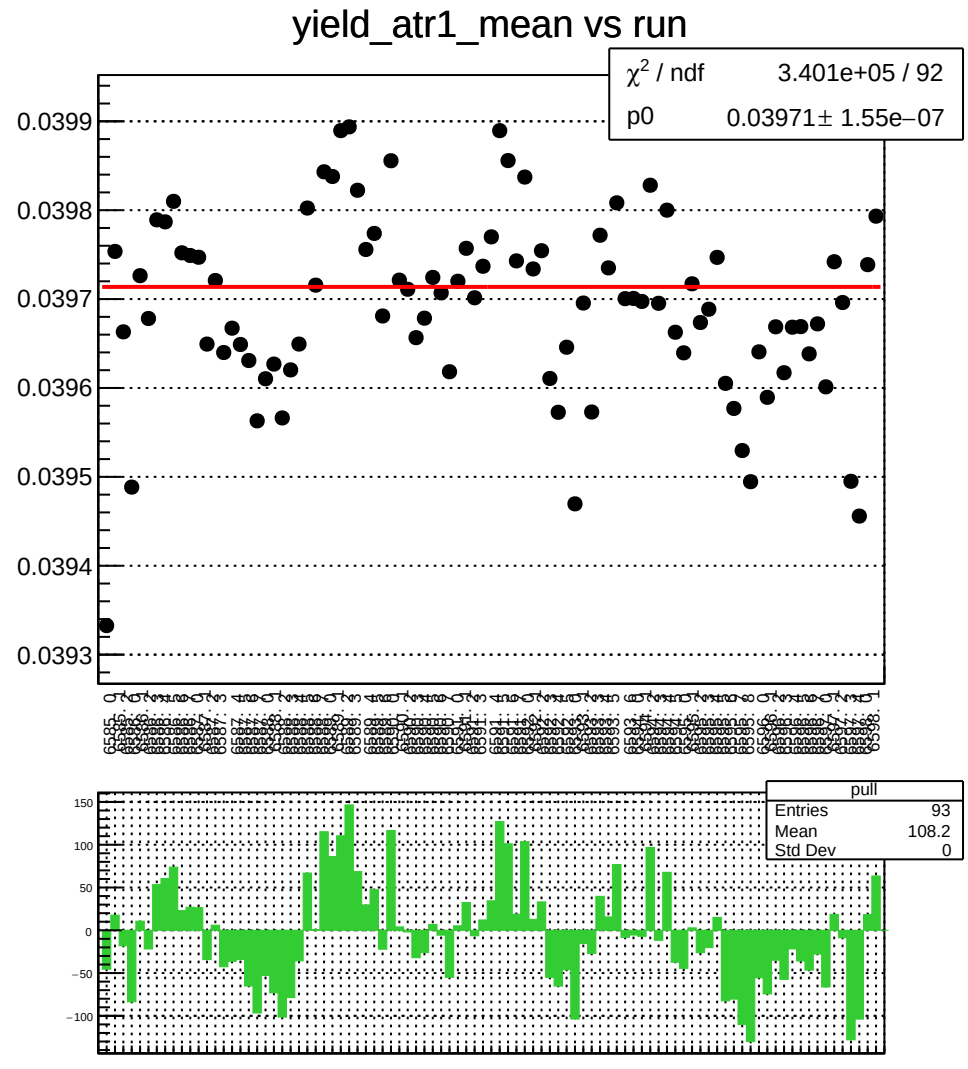

pull1D
Entries 93
Mean 0.4685
Std Dev 3.678
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

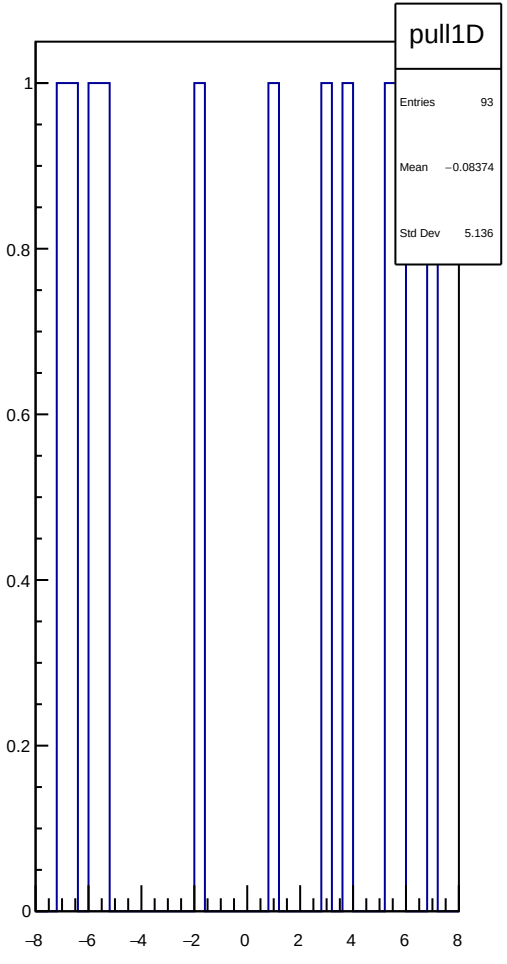

yield_atl1_rms vs run
×10⁻³
χ² / ndf 7.439e+04 / 92
p0 7.51e−05 ± 5.767e−08
0.6
0.5
0.4
0.3
0.2
0.1

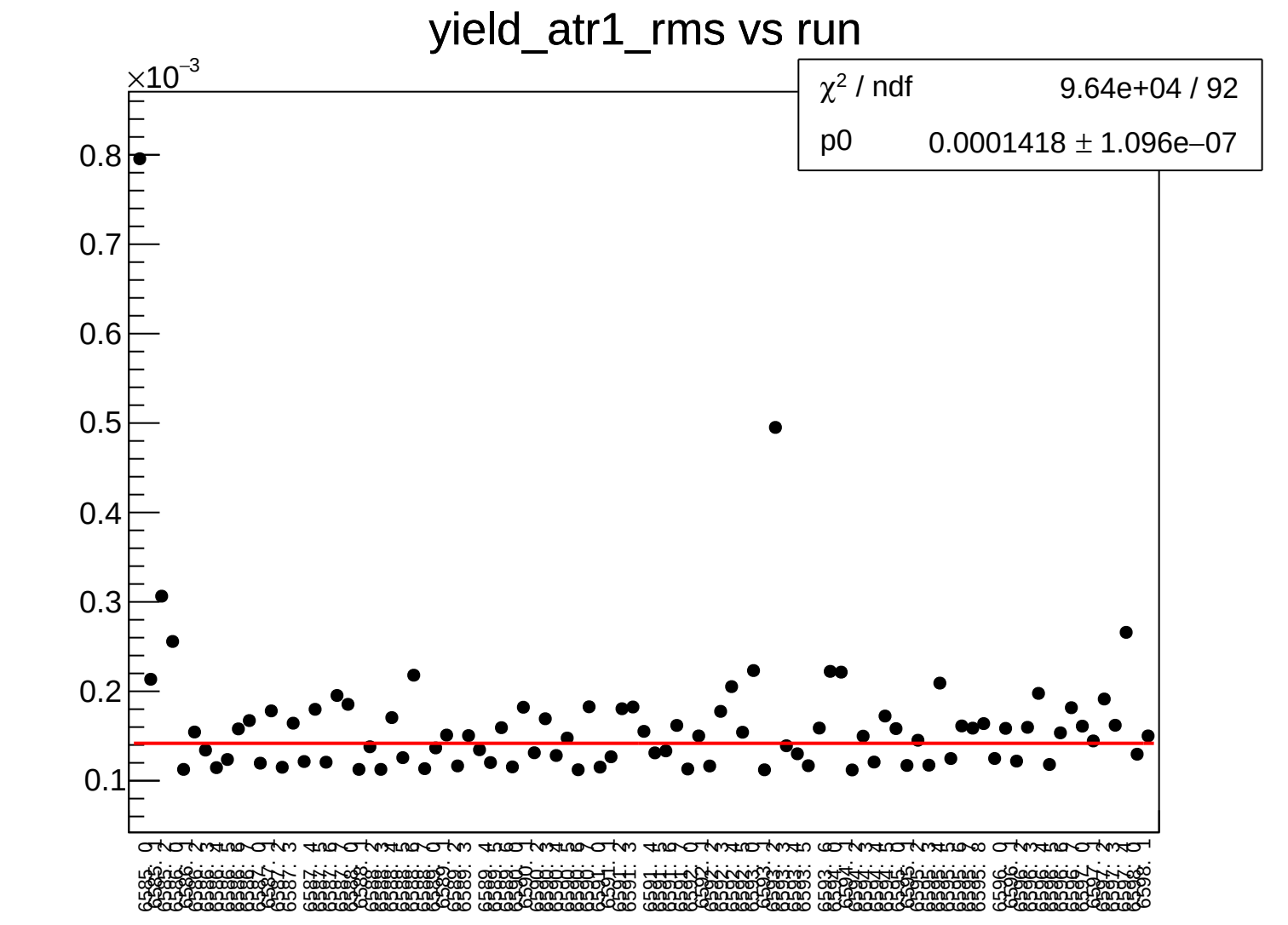

yield_atl2_mean vs run
χ² / ndf 3.078e+05 / 92
p0 0.02142 ± 2.801e−07
0.022
0.0215
0.021
0.0205
0.02
pull
Entries 93
Mean 61.06
Std Dev 32.89
150
100
50
0
−50
−100

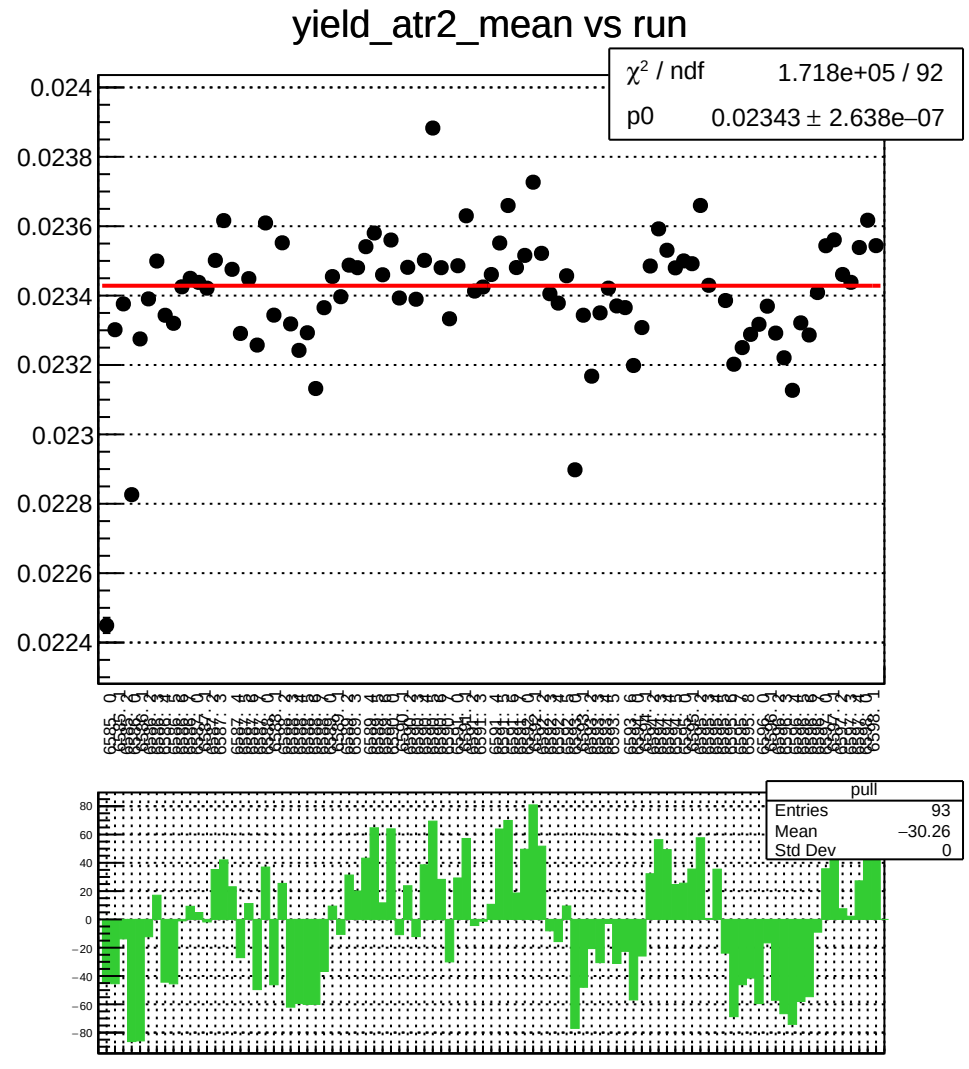

pull1D
Entries 93
Mean 1.73
Std Dev 4.107
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

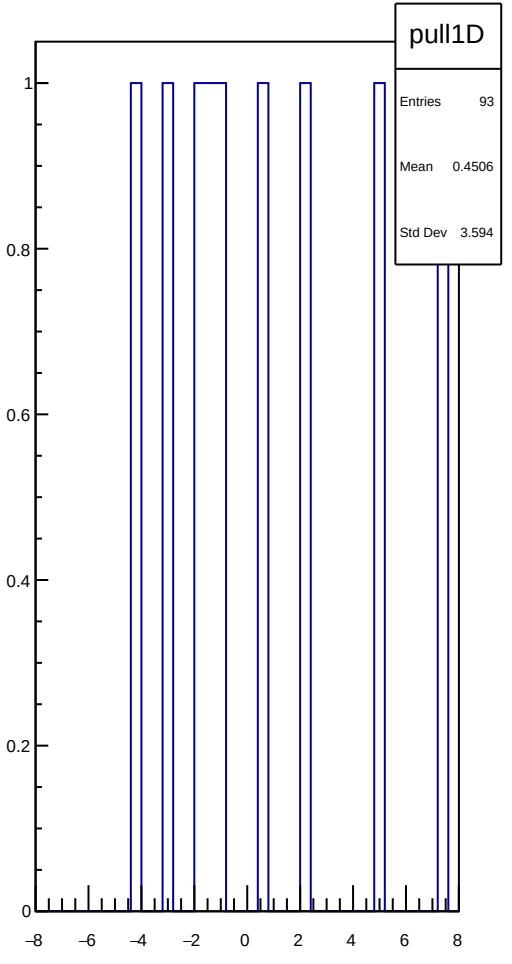

yield_atl2_rms vs run
χ² / ndf 2.392e+05 / 92
p0 0.0002451 ± 1.98e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

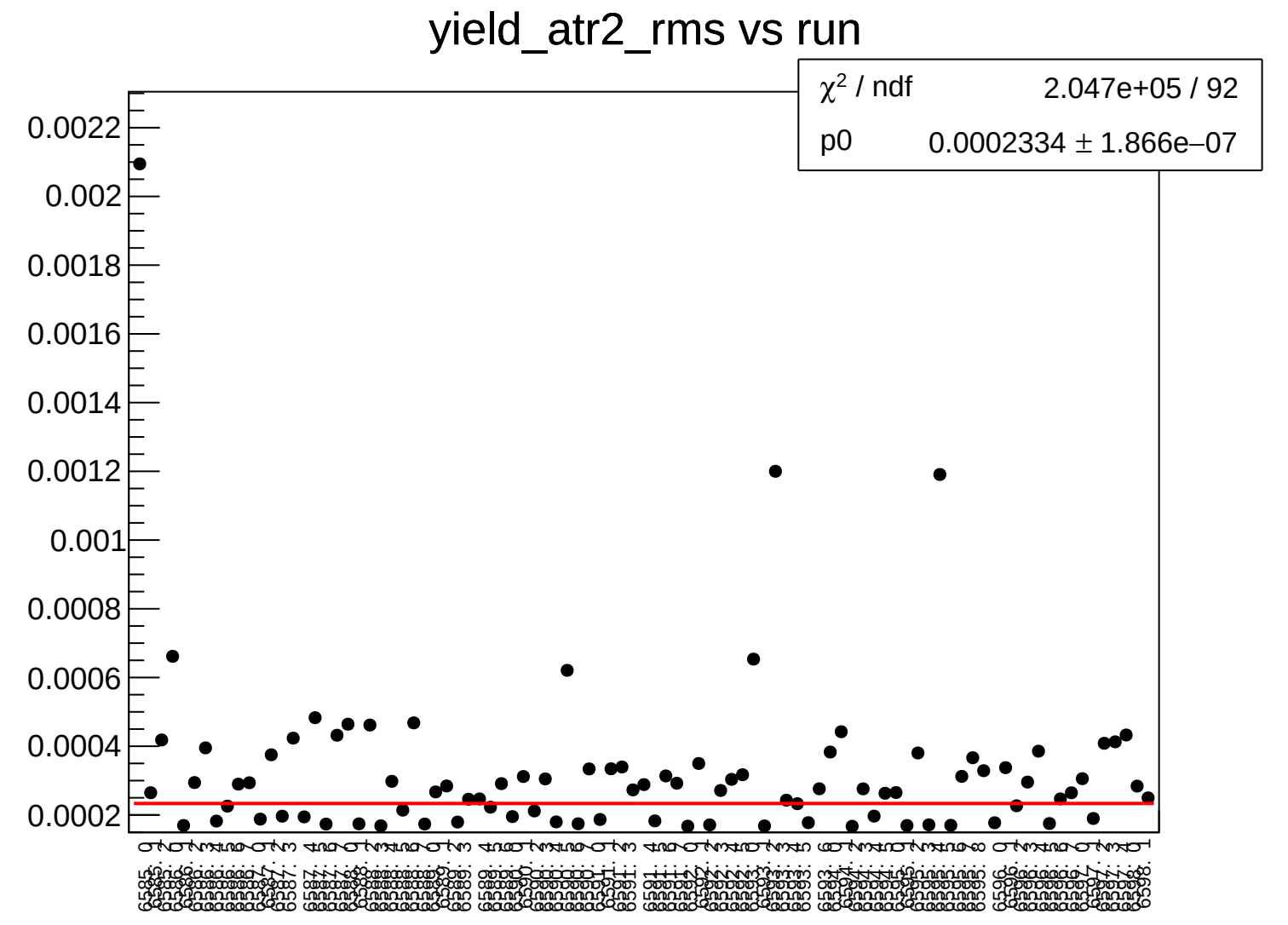

yield_atr1_mean vs run
χ² / ndf 3.401e+05 / 92
p0 0.03971± 1.55e−07
0.0399
0.0398
0.0397
0.0396
0.0395
0.0394
0.0393
pull
Entries 93
Mean 108.2
Std Dev 0
150
100
50
0
−50
−100

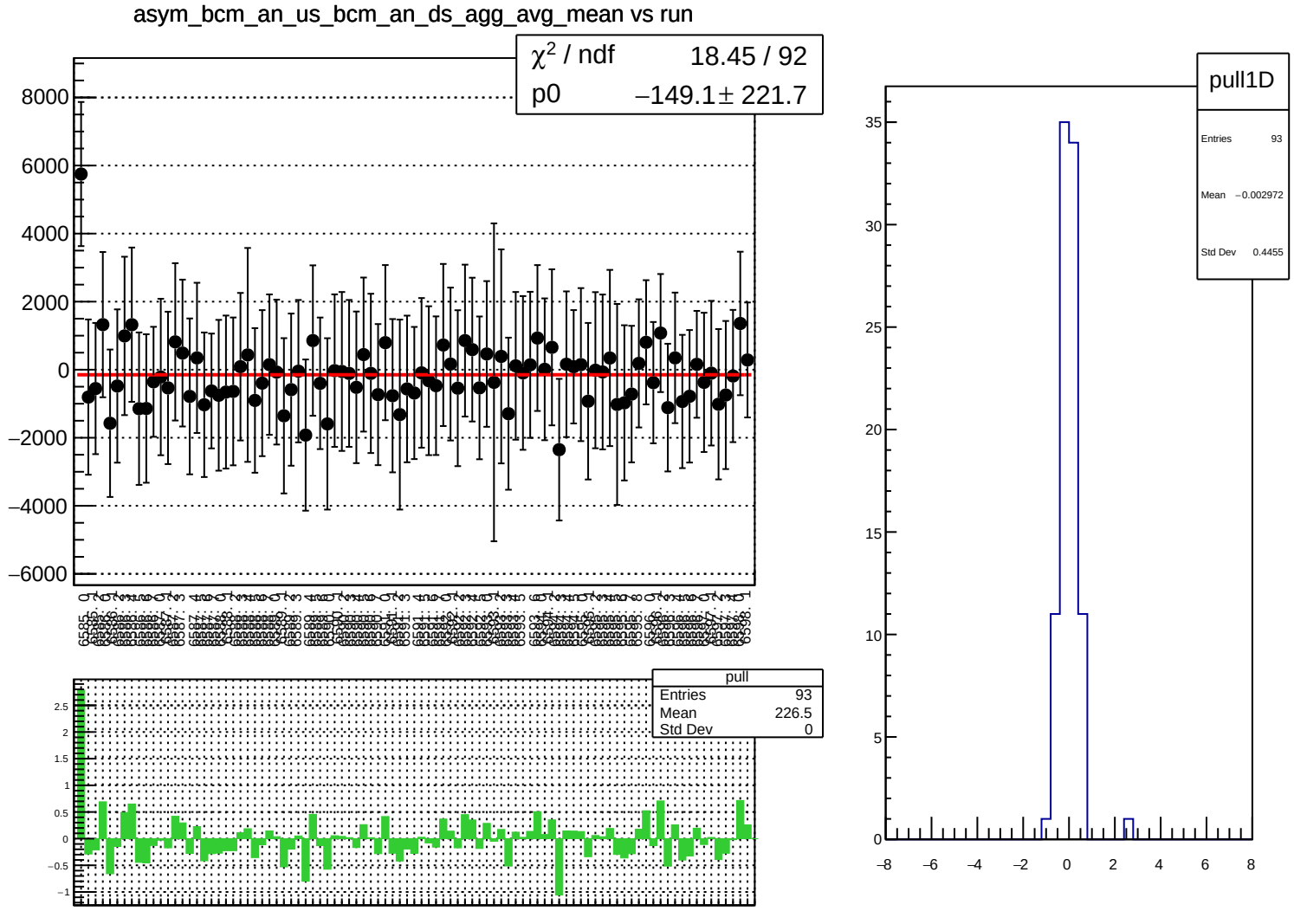

pull1D
Entries 93
Mean −0.08374
Std Dev 5.136
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

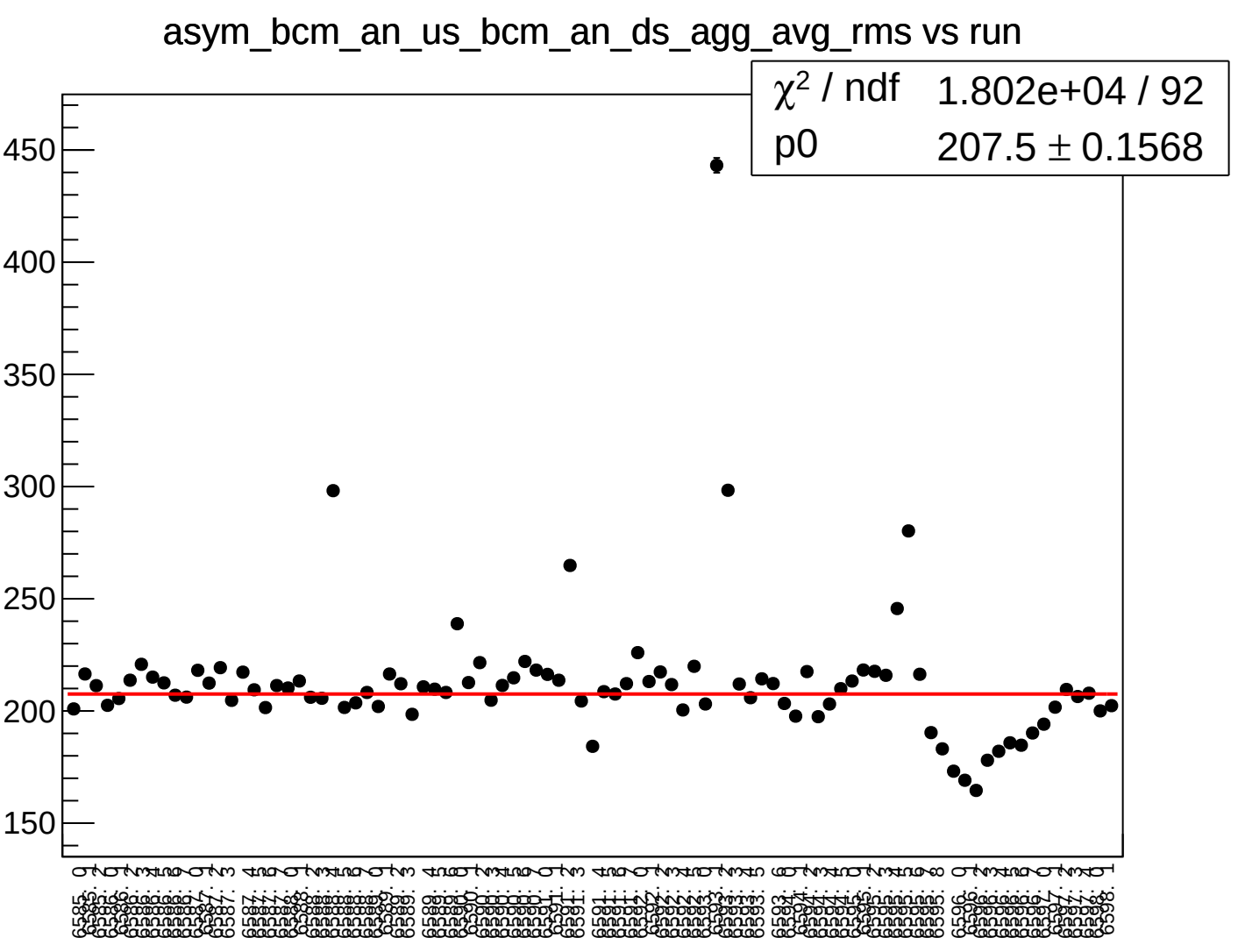

yield_atr1_rms vs run
×10⁻³
χ² / ndf 9.64e+04 / 92
p0 0.0001418 ± 1.096e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

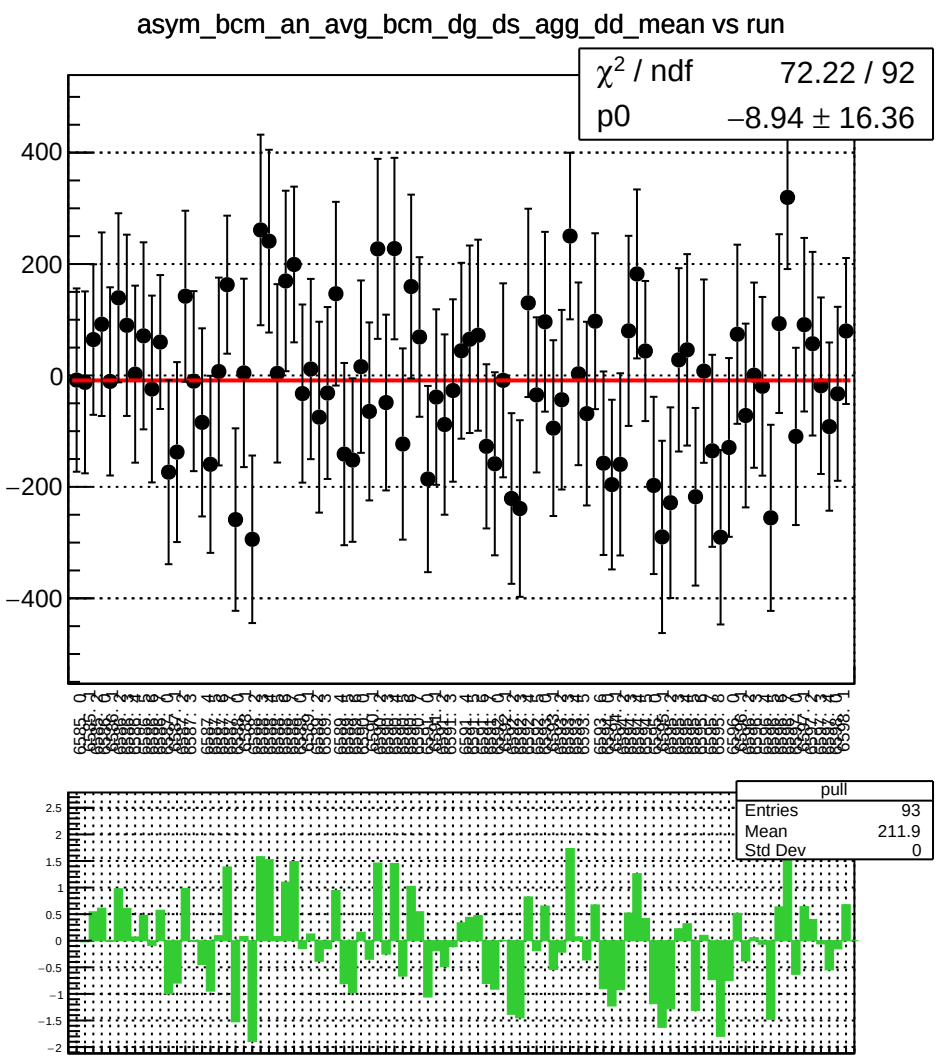

yield_atr2_mean vs run
χ² / ndf 1.718e+05 / 92
p0 0.02343 ± 2.638e−07
0.024
0.0238
0.0236
0.0234
0.0232
0.023
0.0228
0.0226
0.0224
pull
Entries 93
Mean −30.26
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

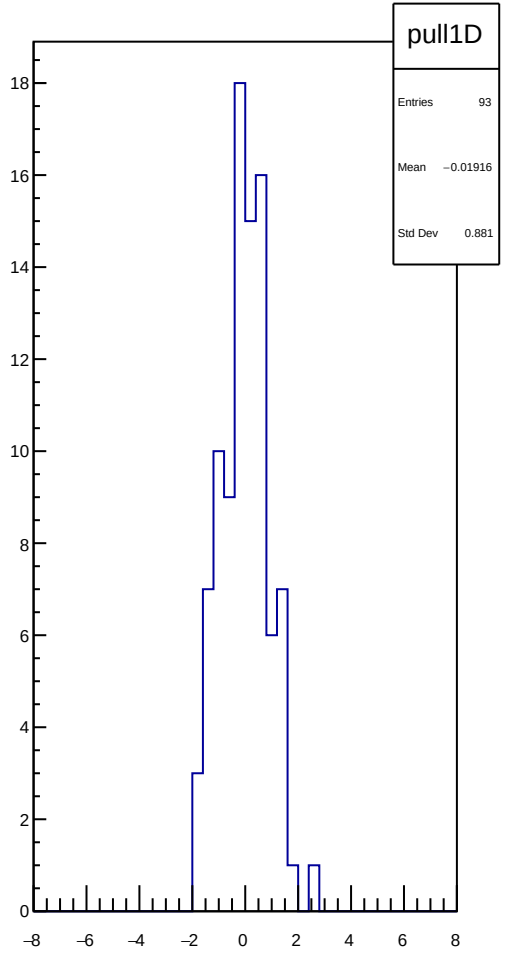

pull1D
Entries 93
Mean 0.4506
Std Dev 3.594
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

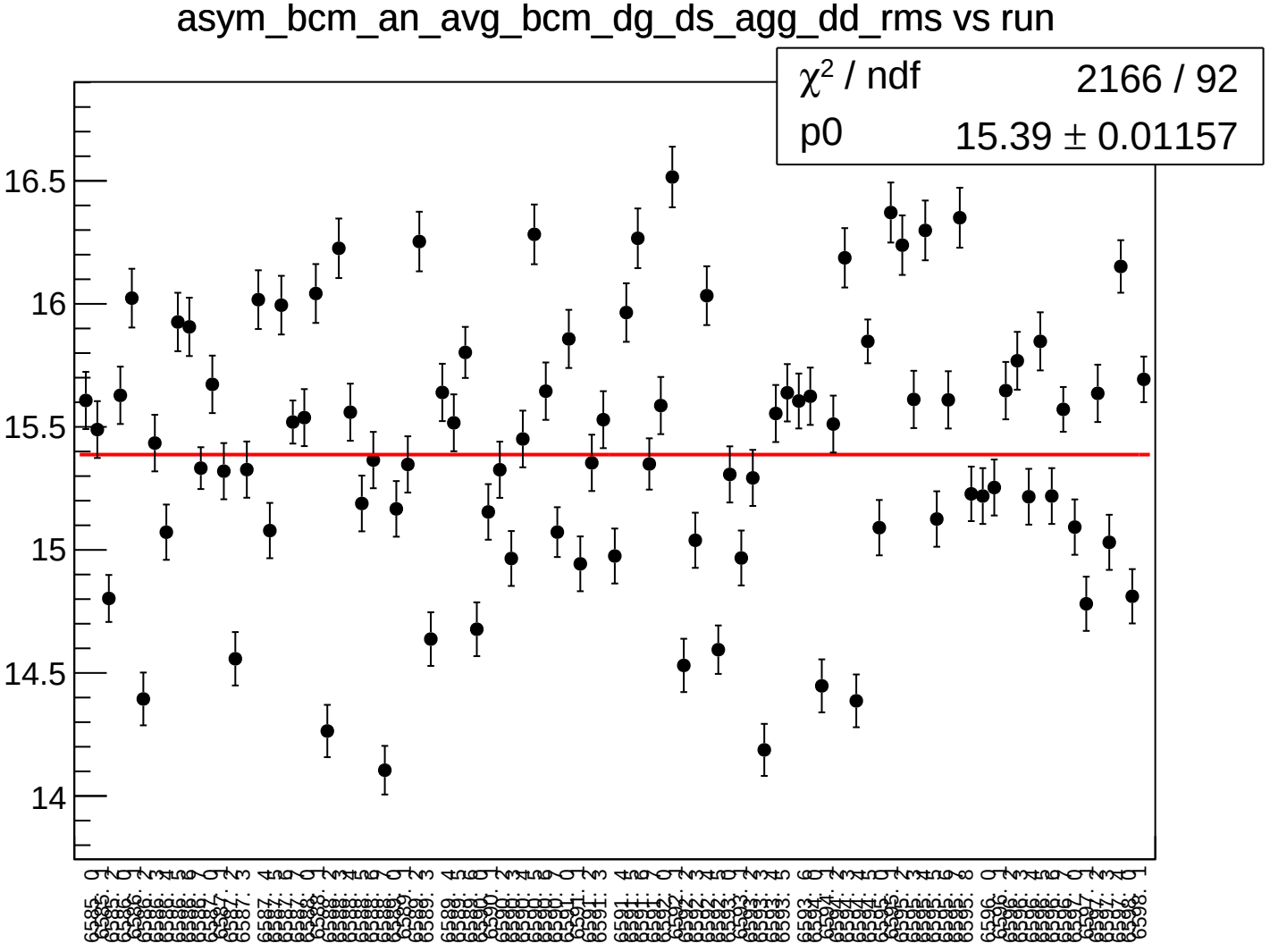

yield_atr2_rms vs run
χ² / ndf 2.047e+05 / 92
p0 0.0002334 ± 1.866e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

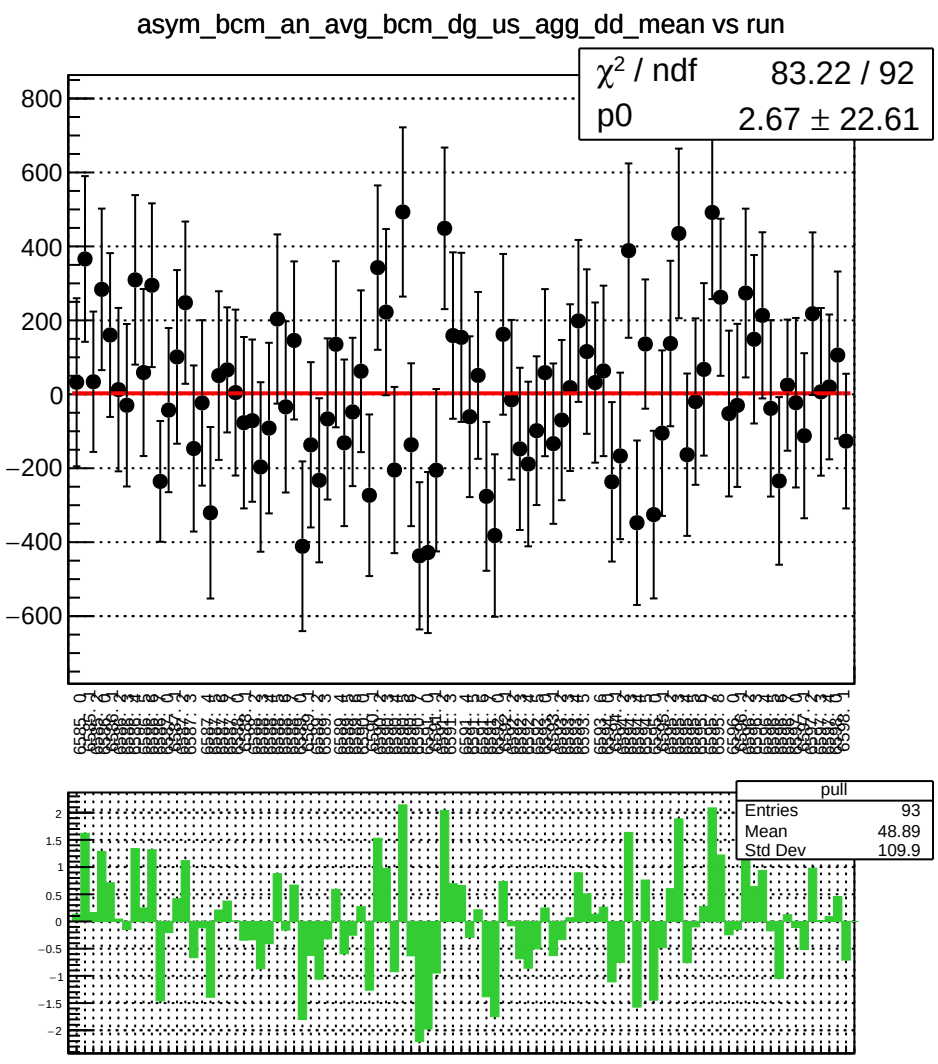

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.45 / 92
p0 −149.1± 221.7
pull
Entries 93
Mean 226.5
Std Dev 0
pull1D
Entries 93
Mean −0.002972
Std Dev 0.4455

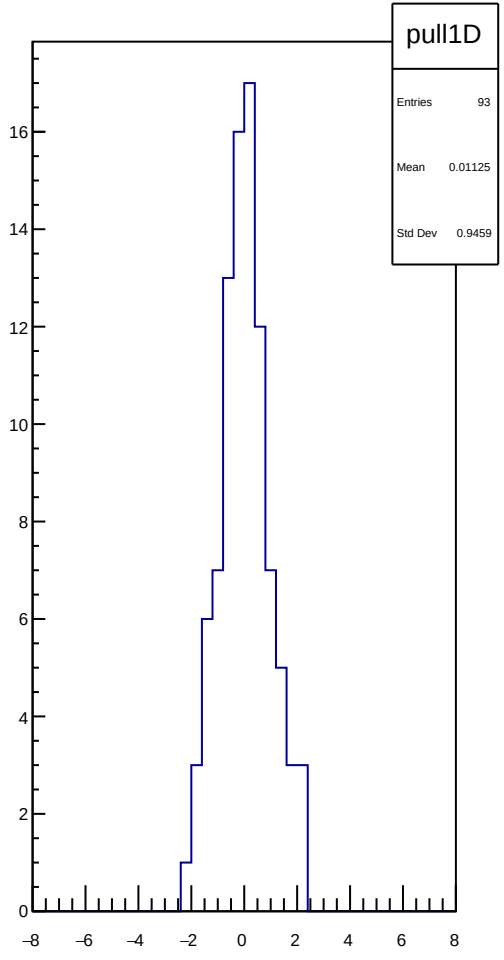

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.802e+04 / 92
p0 207.5 ± 0.1568
450
400
350
300
250
200
150

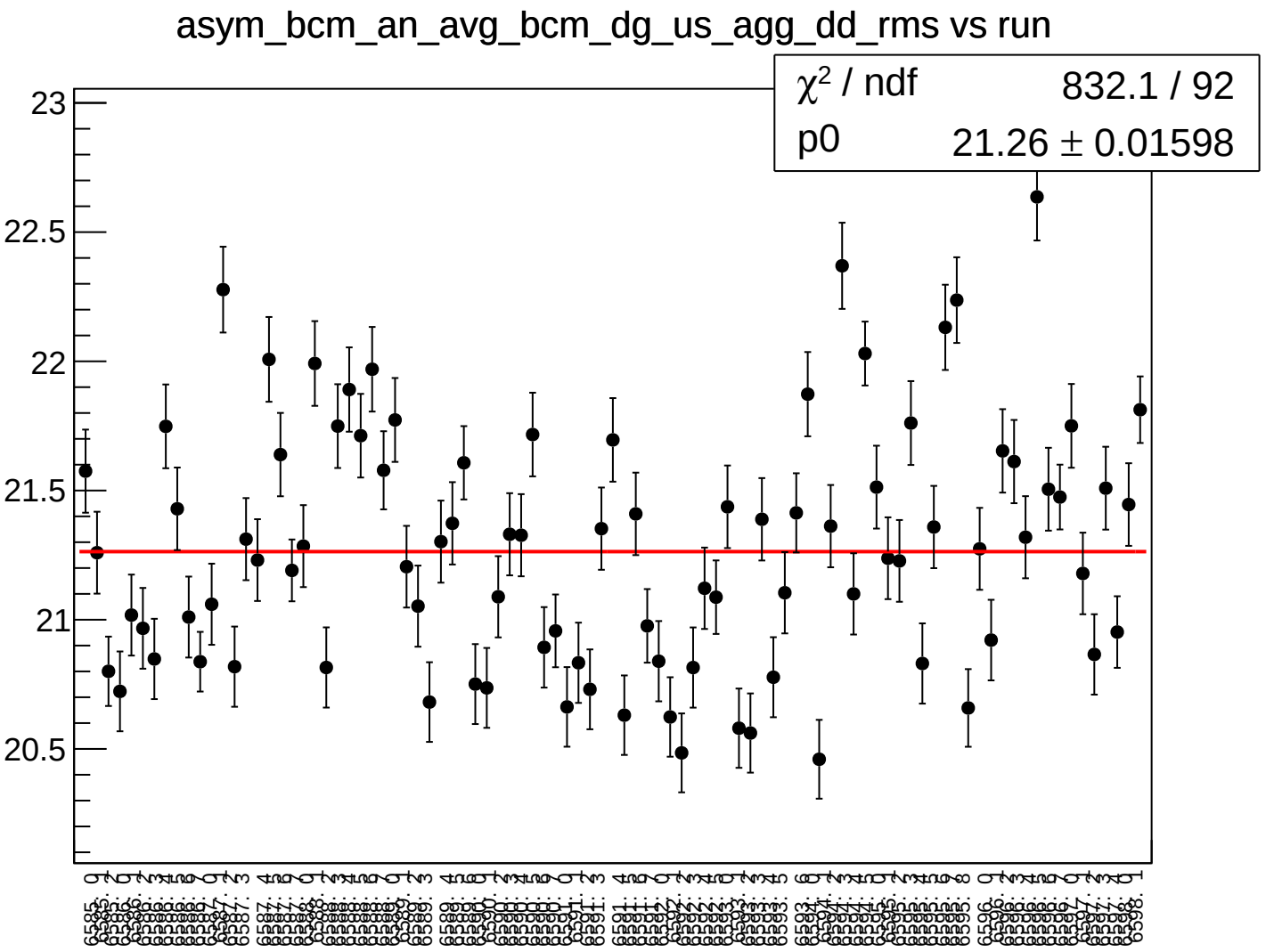

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 72.22 / 92
p0 −8.94 ± 16.36
400
200
0
−200
−400
pull
Entries 93
Mean 211.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

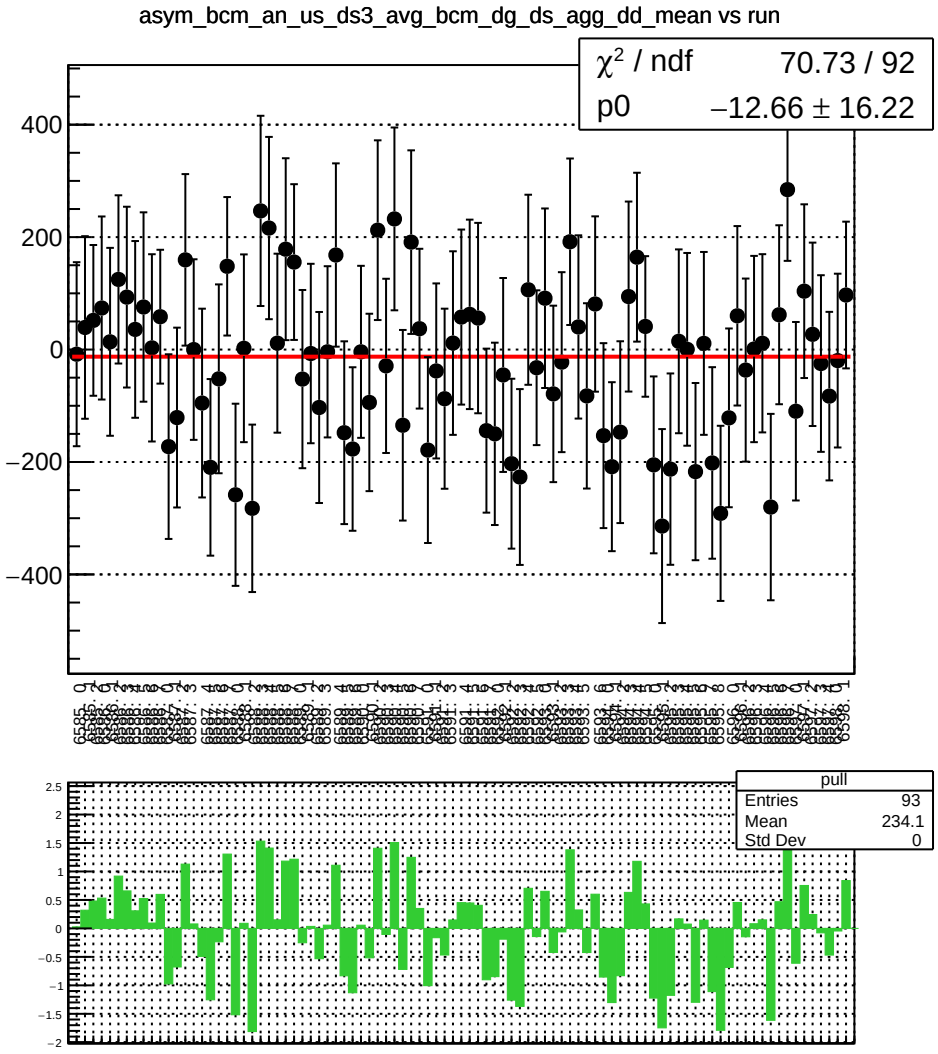

pull1D
Entries 93
Mean −0.01916
Std Dev 0.881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

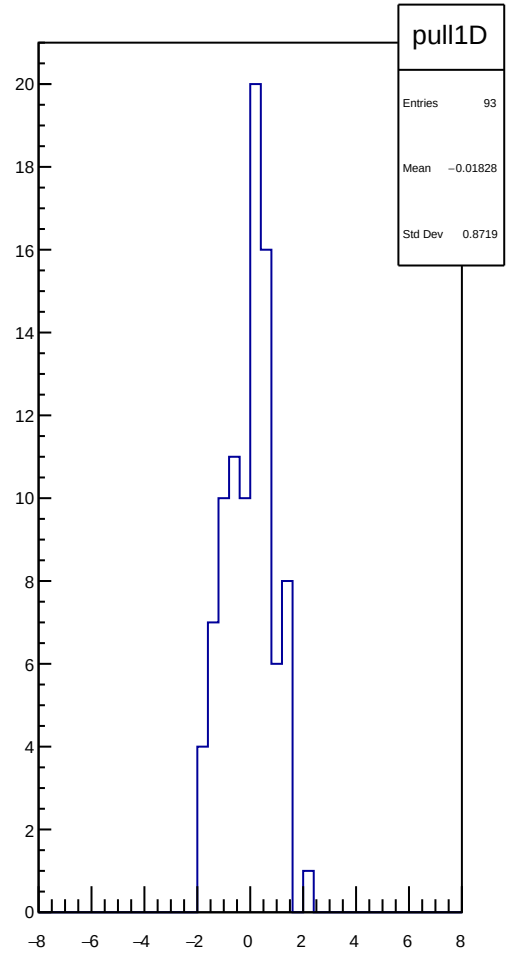

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2166 / 92
p0 15.39 ± 0.01157
16.5
16
15.5
15
14.5
14

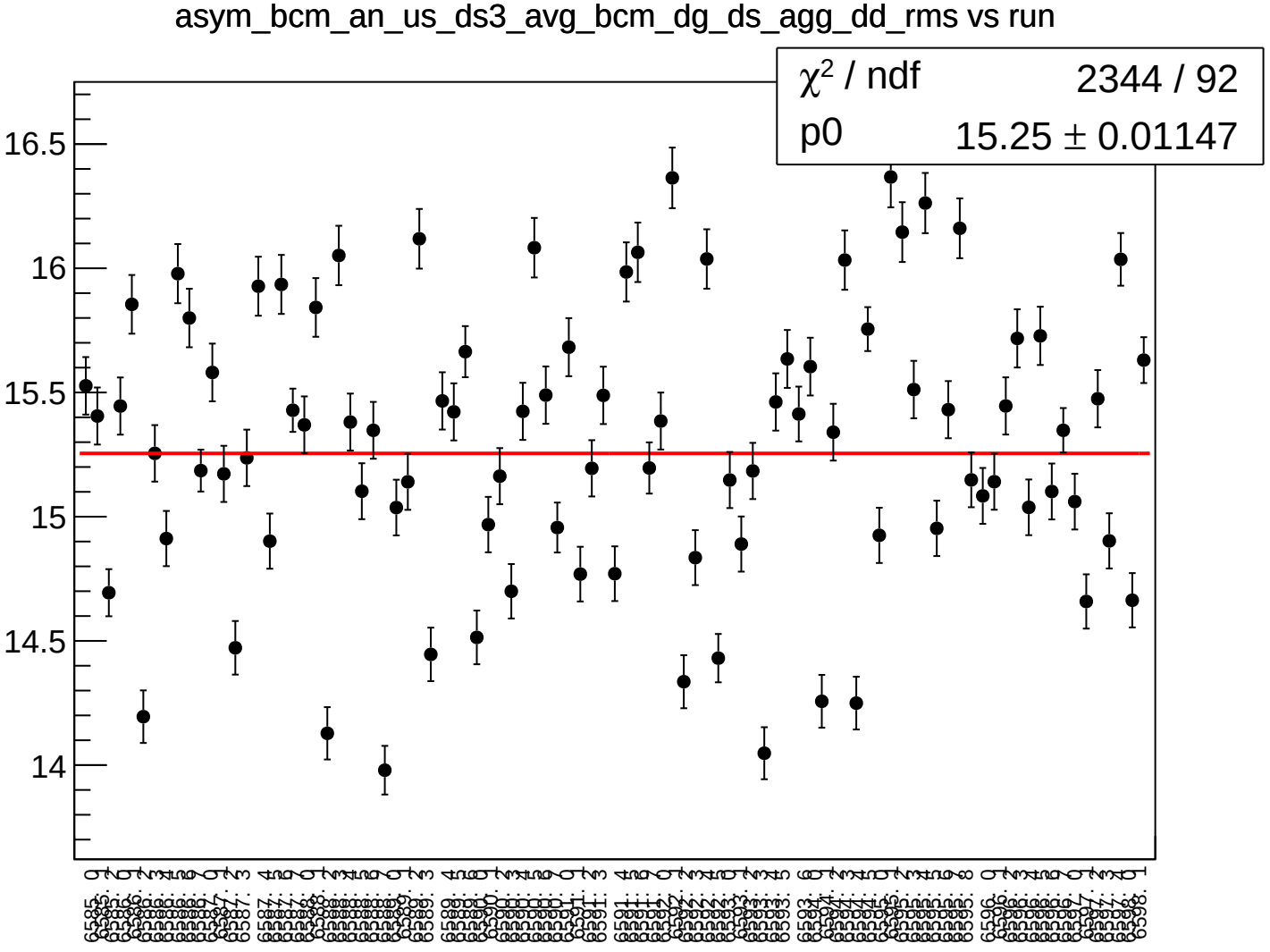

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 83.22 / 92
p0 2.67 ± 22.61
800
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean 48.89
Std Dev 109.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

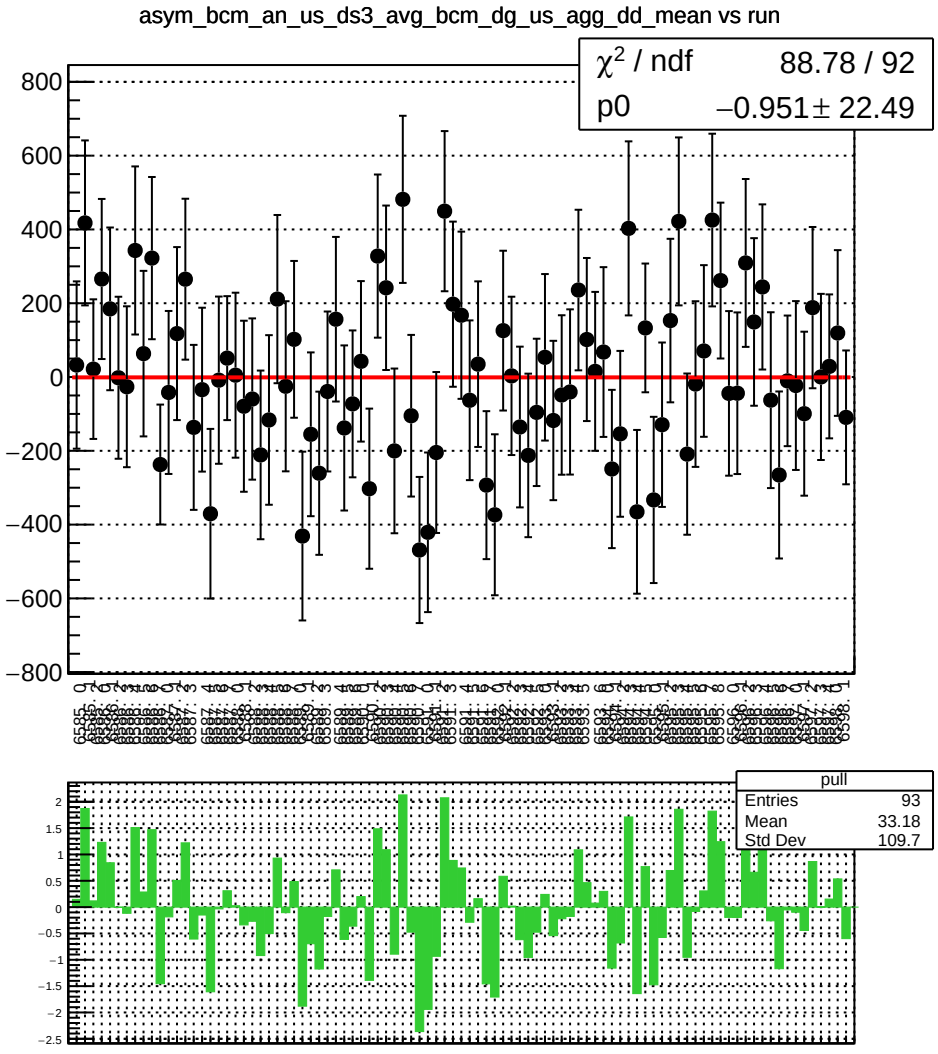

pull1D
Entries 93
Mean 0.01125
Std Dev 0.9459
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

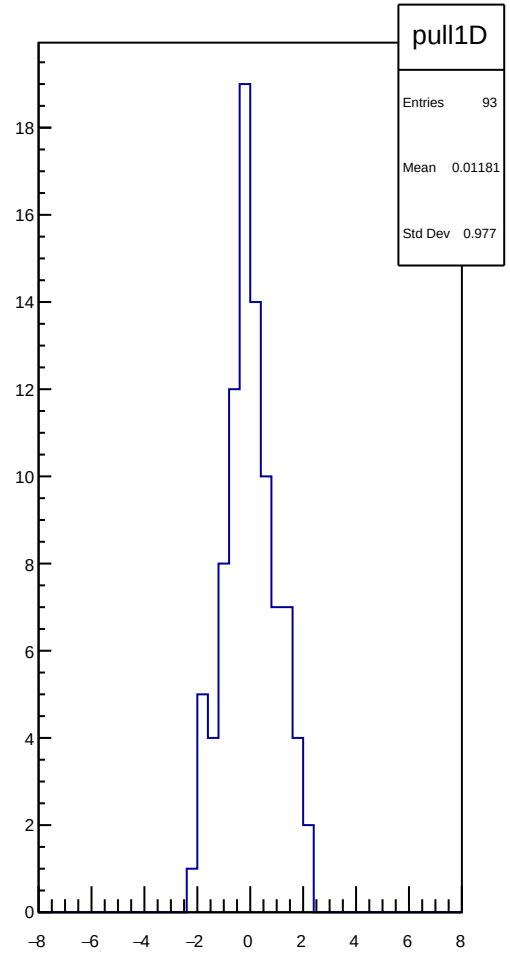

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 832.1 / 92
p0 21.26 ± 0.01598
23
22.5
22
21.5
21
20.5

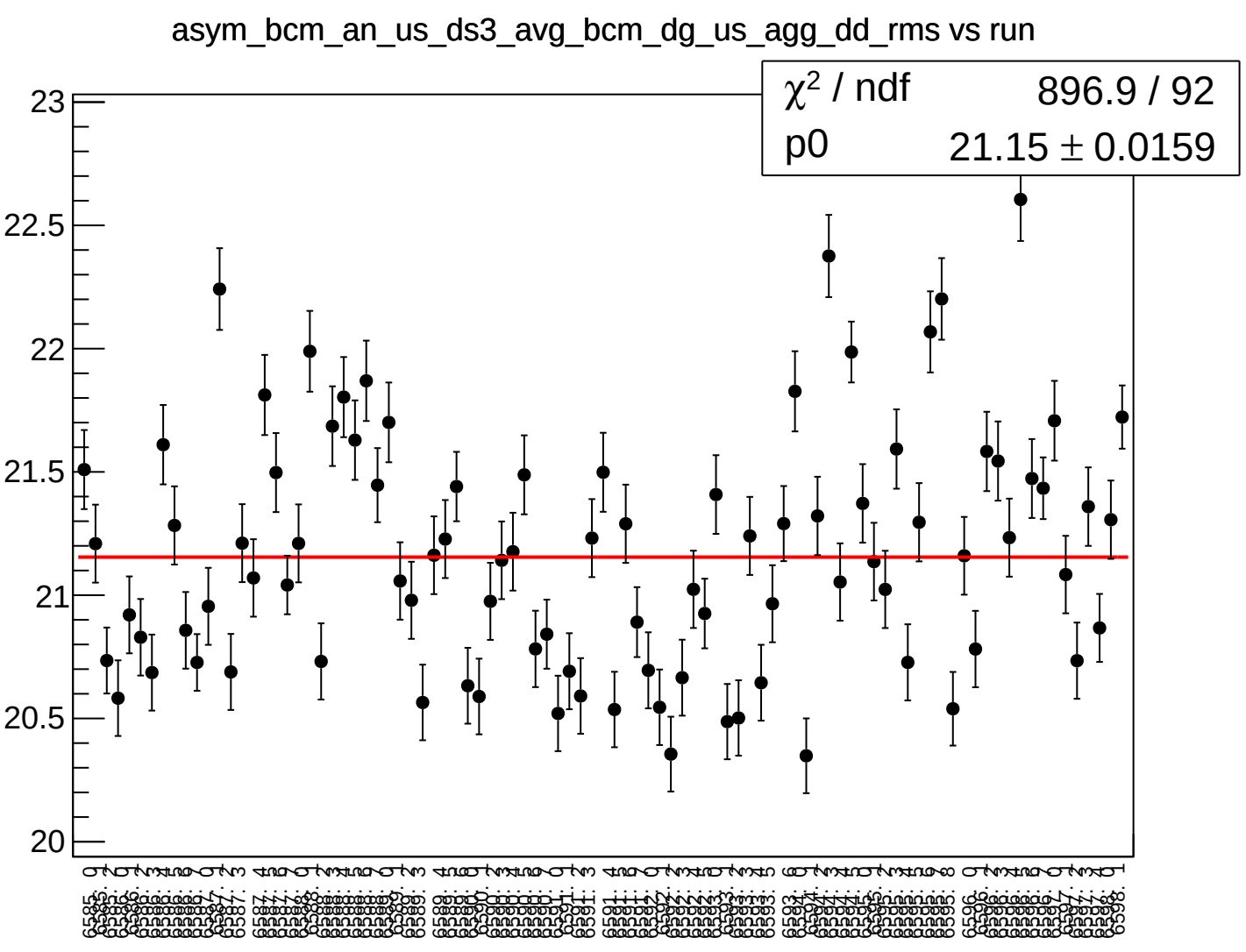

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 70.73 / 92
p0 −12.66 ± 16.22
400
200
0
−200
−400
pull
Entries 93
Mean 234.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

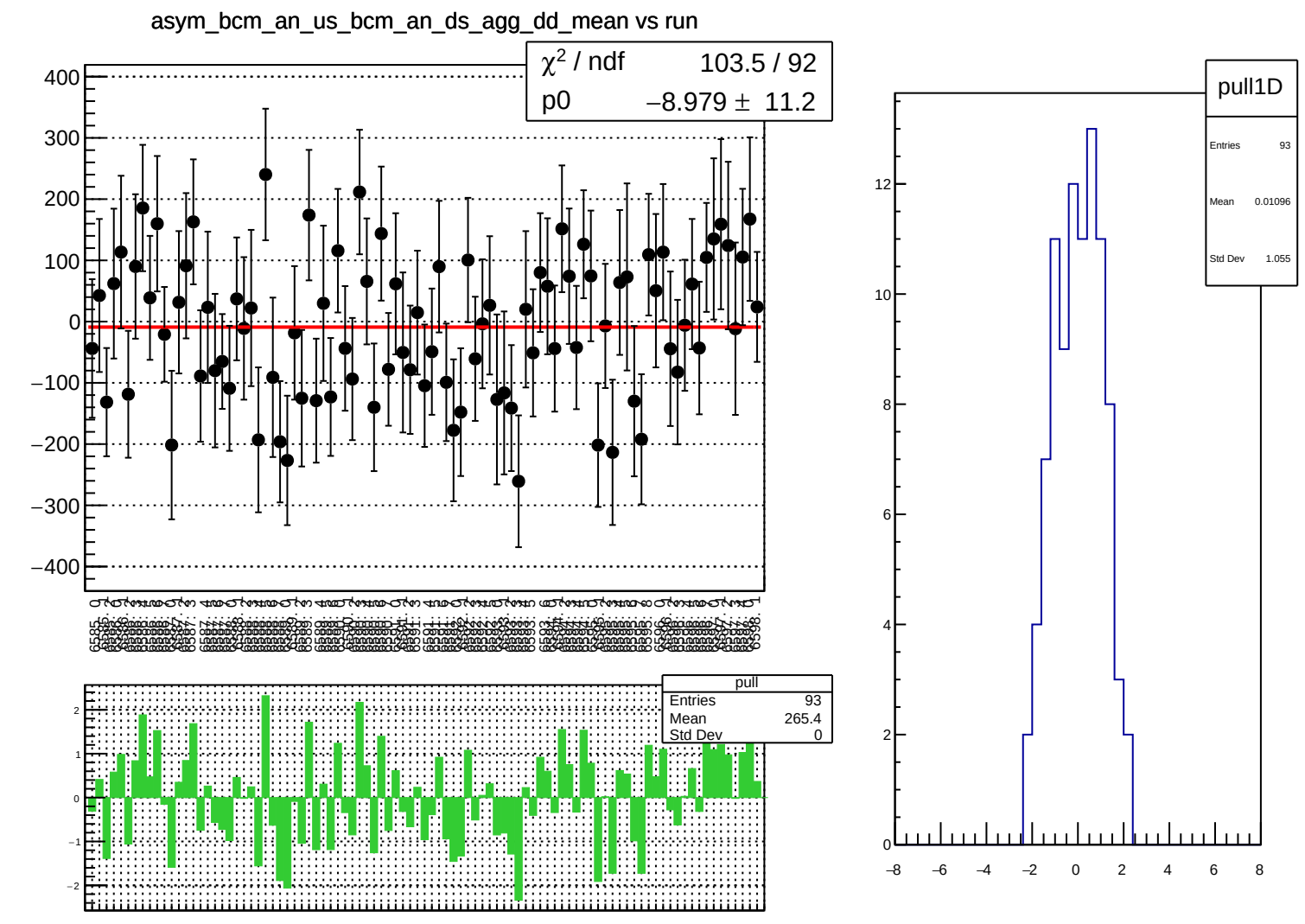

pull1D
Entries 93
Mean −0.01828
Std Dev 0.8719
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

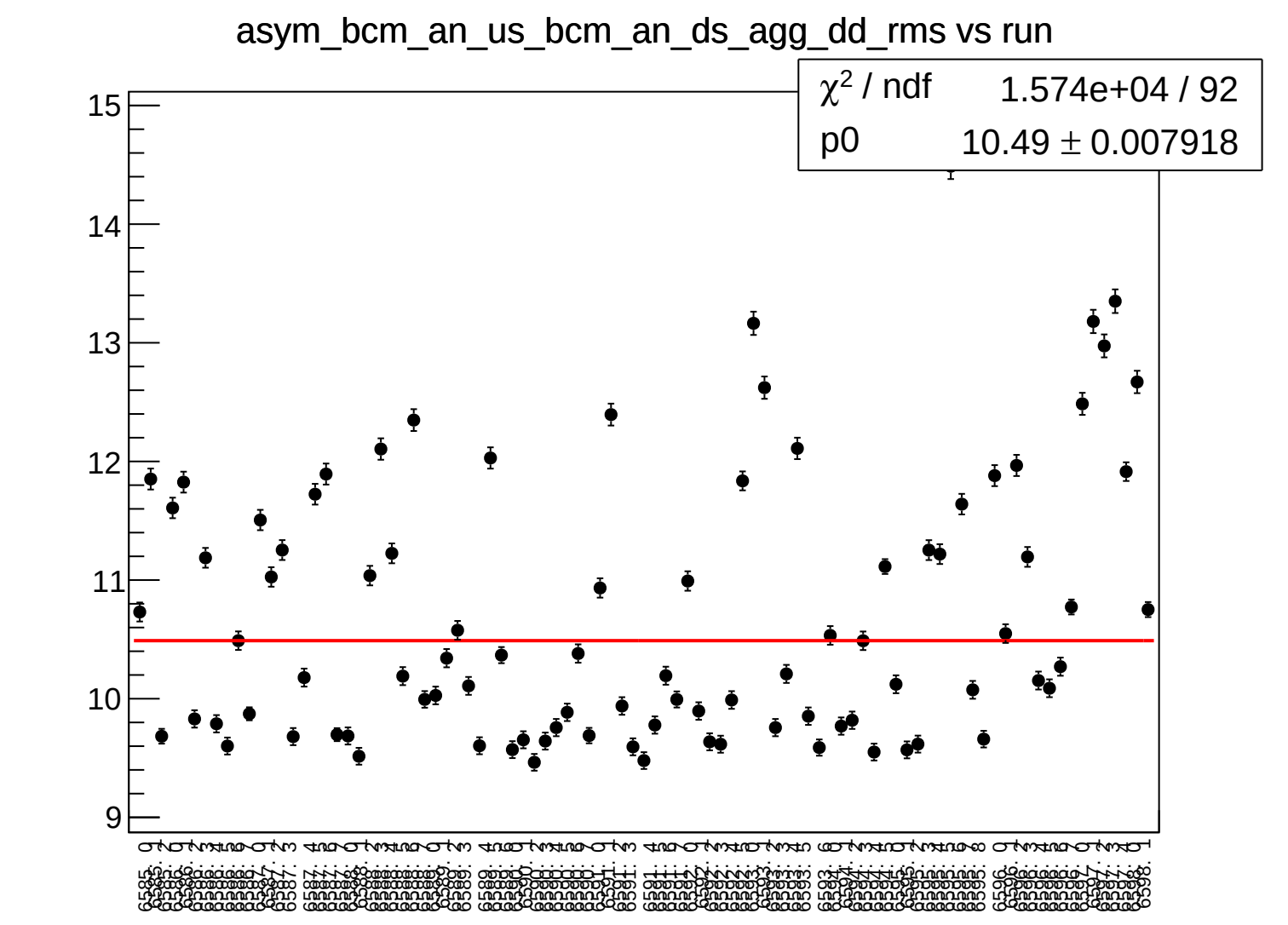

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2344 / 92
p0 15.25 ± 0.01147
16.5
16
15.5
15
14.5
14

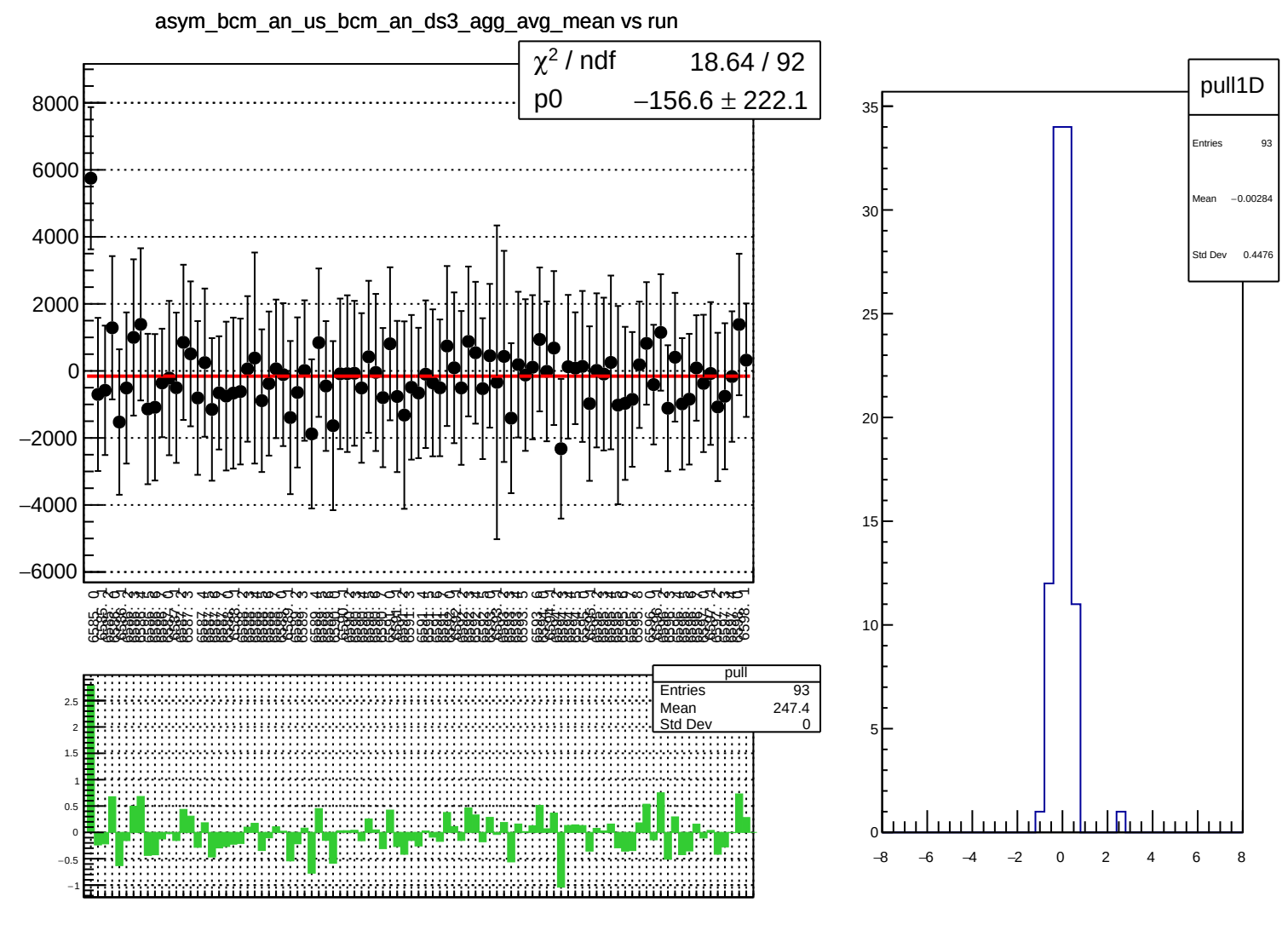

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 88.78 / 92
p0 −0.951± 22.49
pull
Entries 93
Mean 33.18
Std Dev 109.7

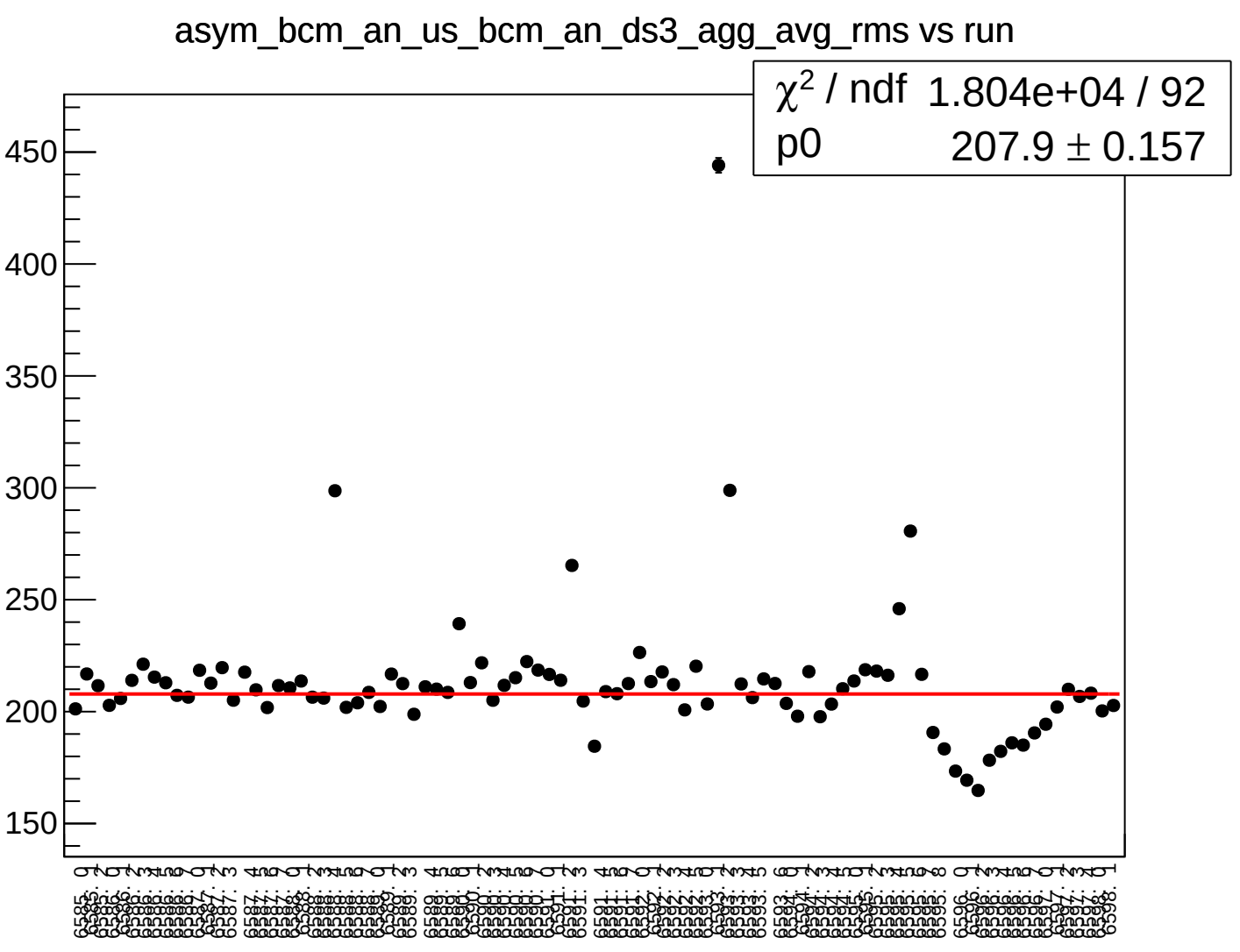

pull1D
Entries 93
Mean 0.01181
Std Dev 0.977

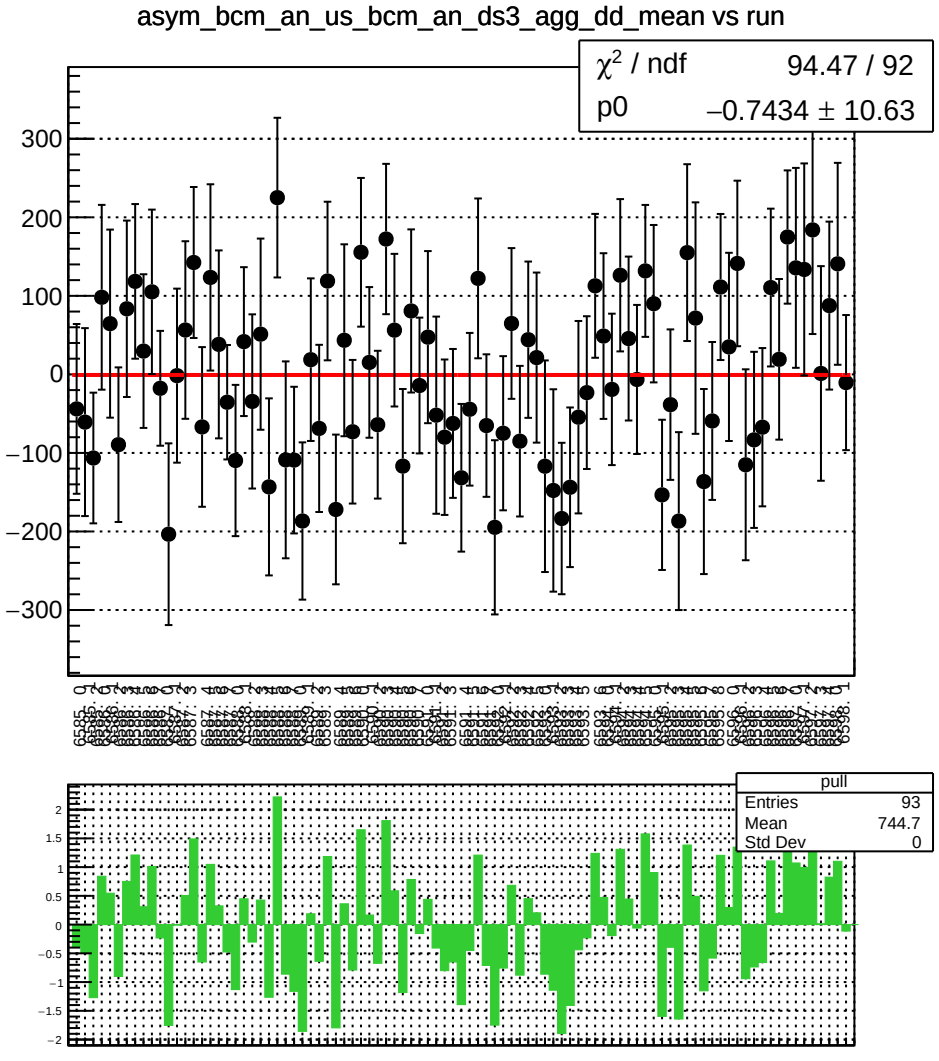

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 896.9 / 92
p0 21.15 ± 0.0159
23
22.5
22
21.5
21
20.5
20

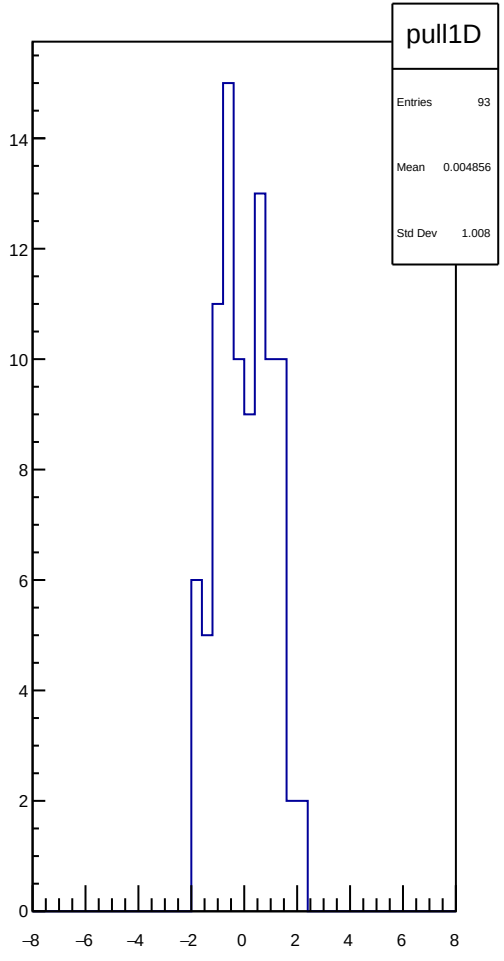

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 103.5 / 92
p0 −8.979 ± 11.2
pull
Entries 93
Mean 265.4
Std Dev 0
pull1D
Entries 93
Mean 0.01096
Std Dev 1.055

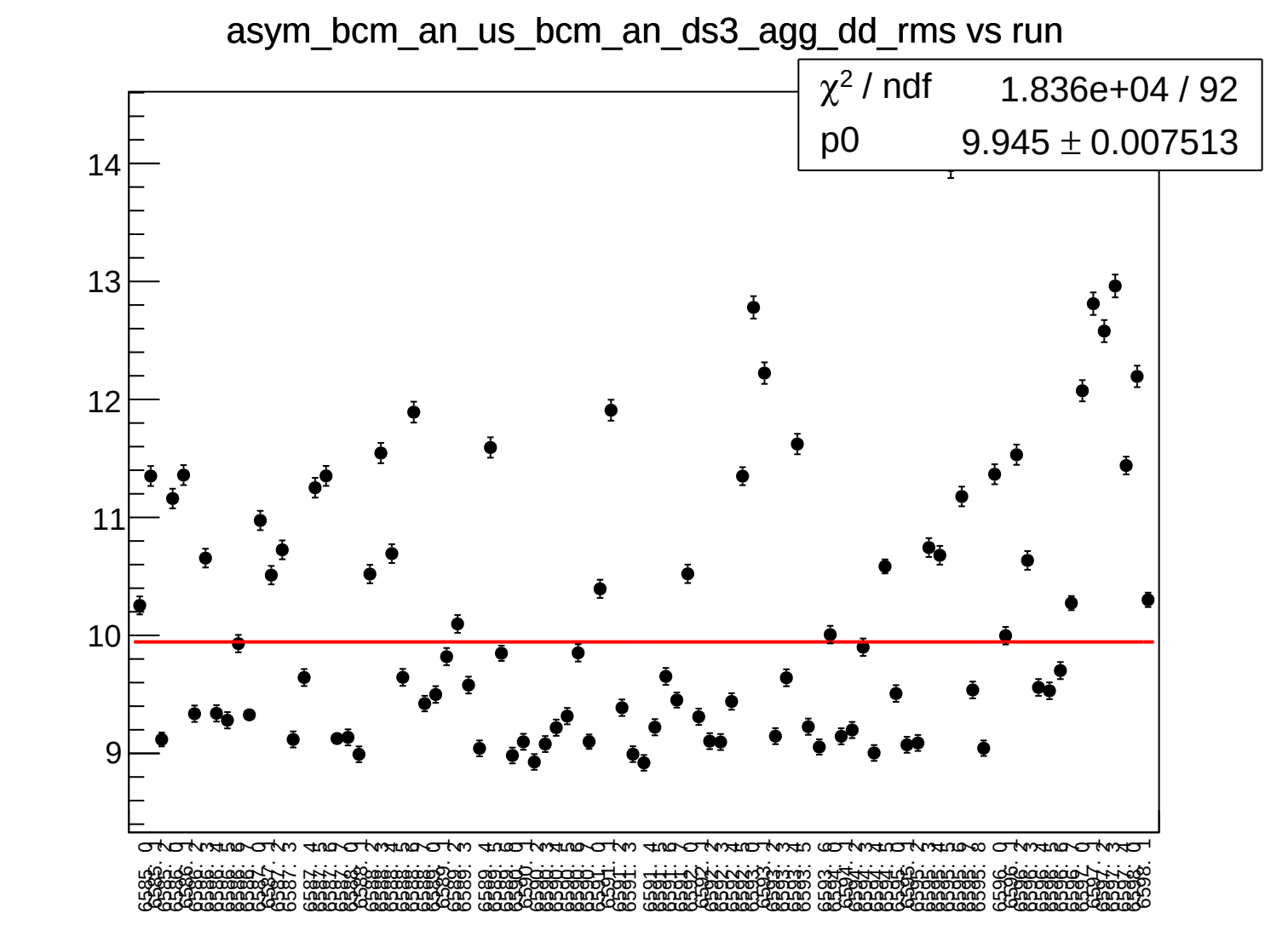

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.574e+04 / 92
p0 10.49 ± 0.007918
15
14
13
12
11
10
9

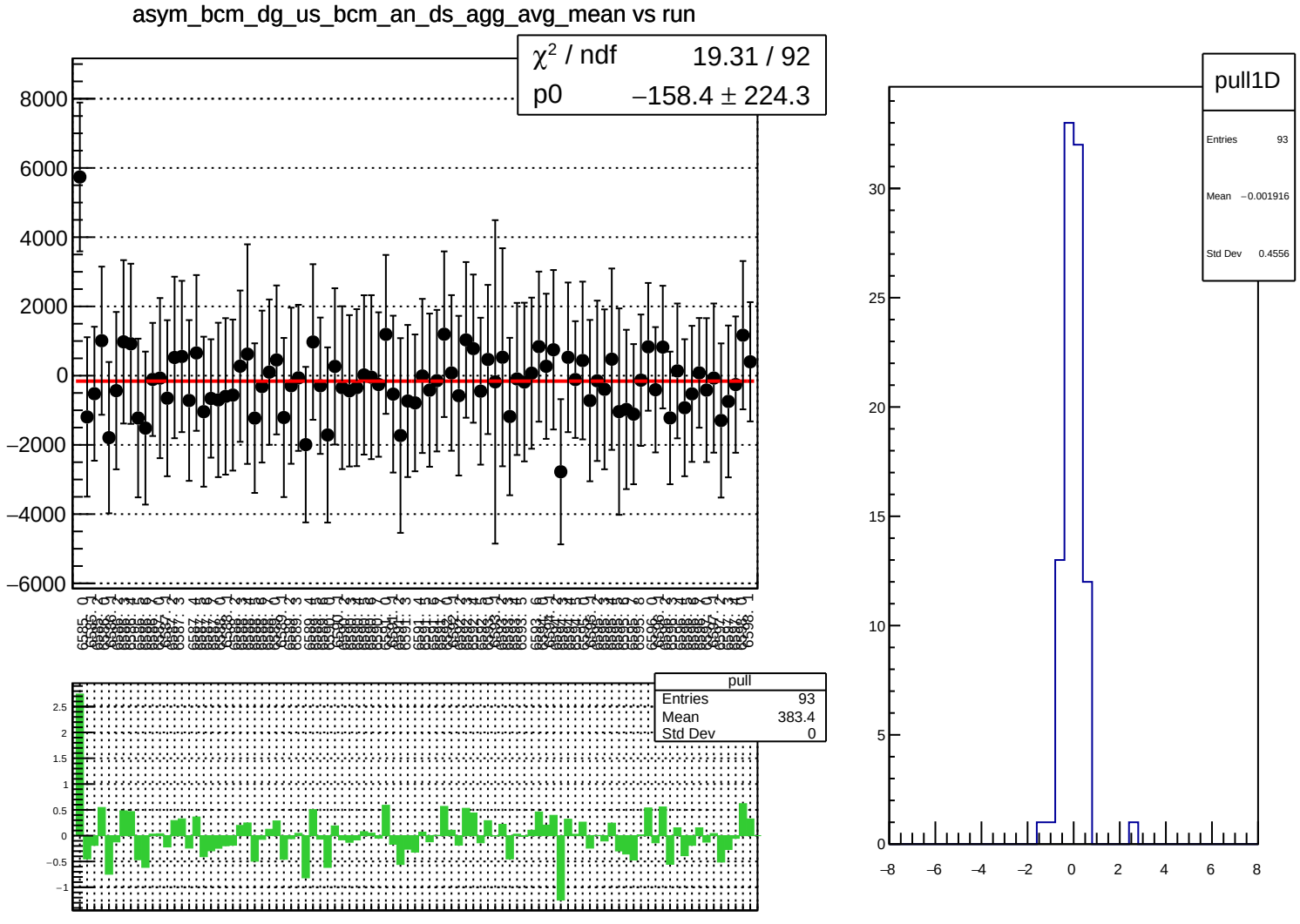

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 18.64 / 92
p0 −156.6 ± 222.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 247.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.00284
Std Dev 0.4476
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

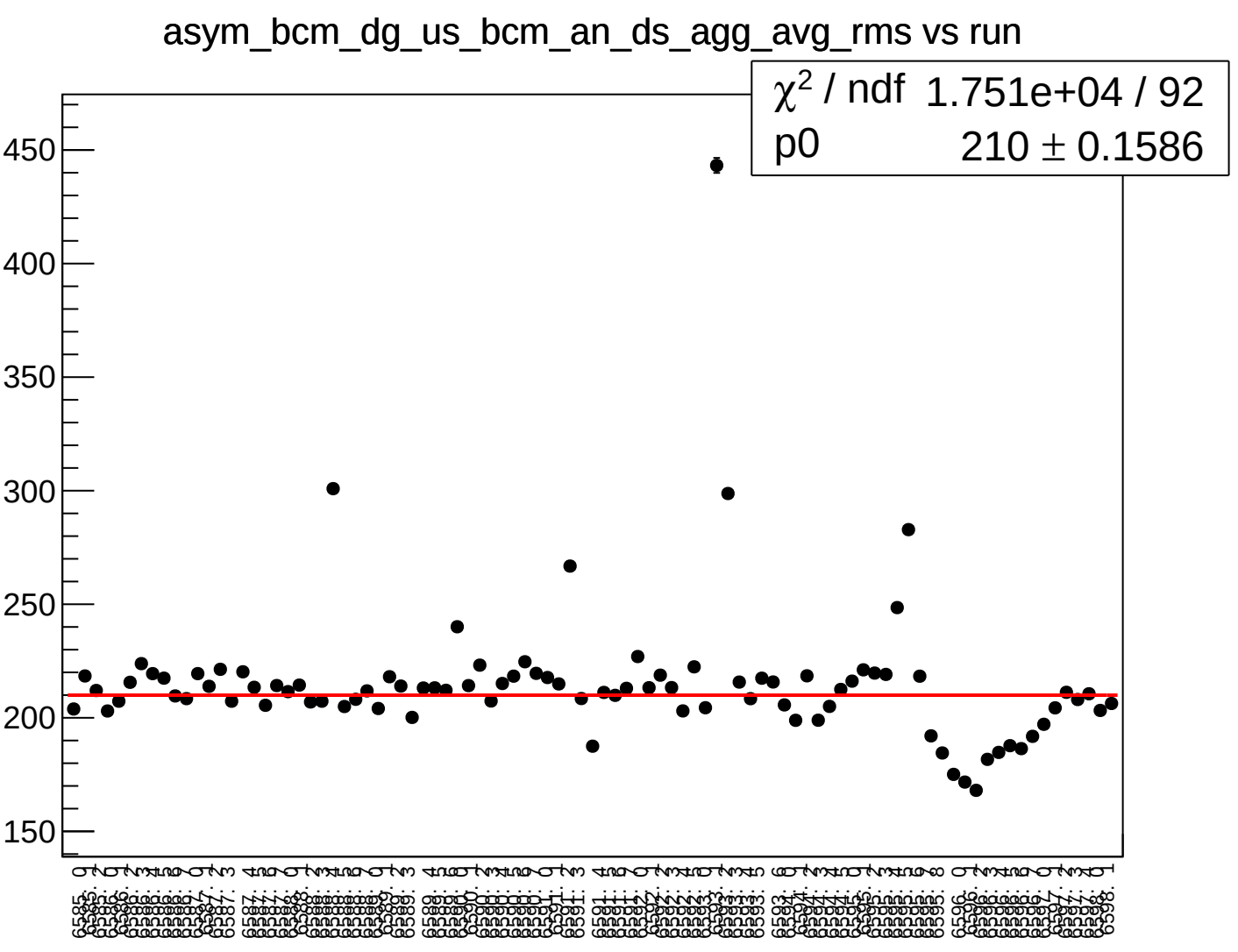

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.804e+04 / 92
p0 207.9 ± 0.157
450
400
350
300
250
200
150

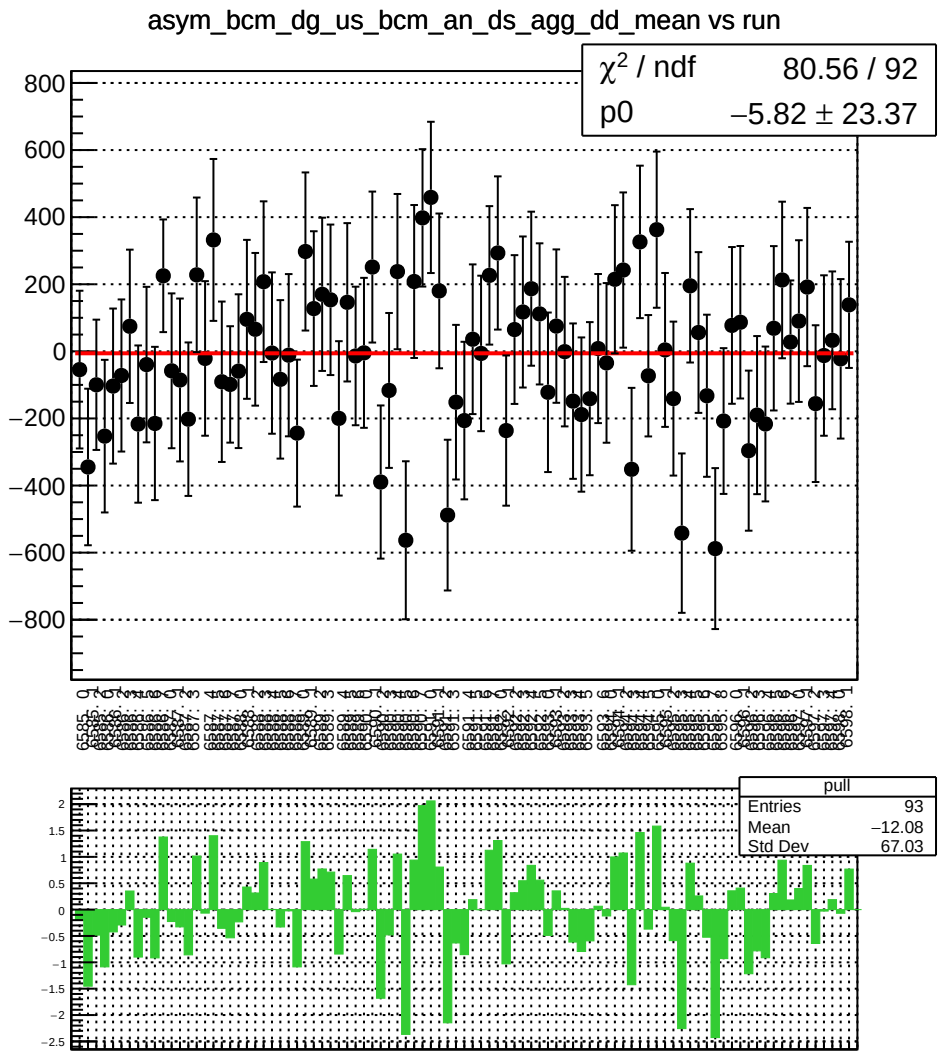

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 94.47 / 92
p0 −0.7434 ± 10.63
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 744.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

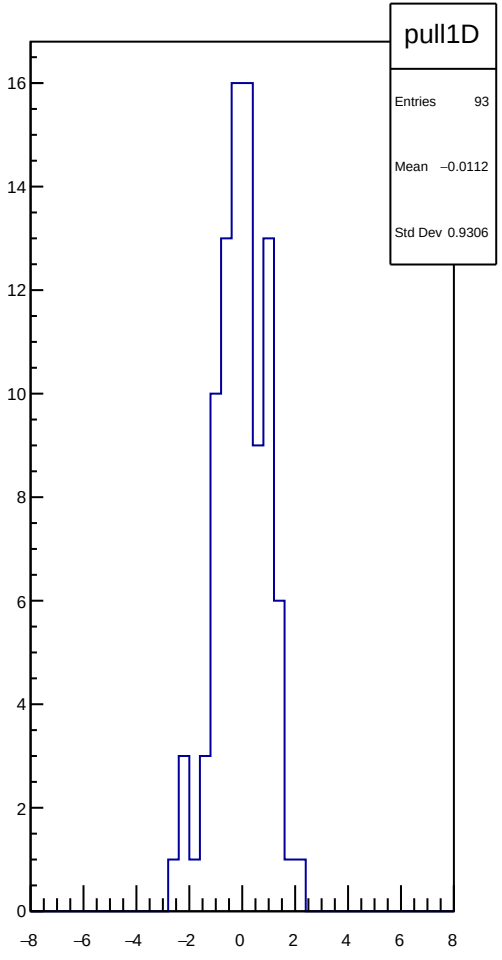

pull1D
Entries 93
Mean 0.004856
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

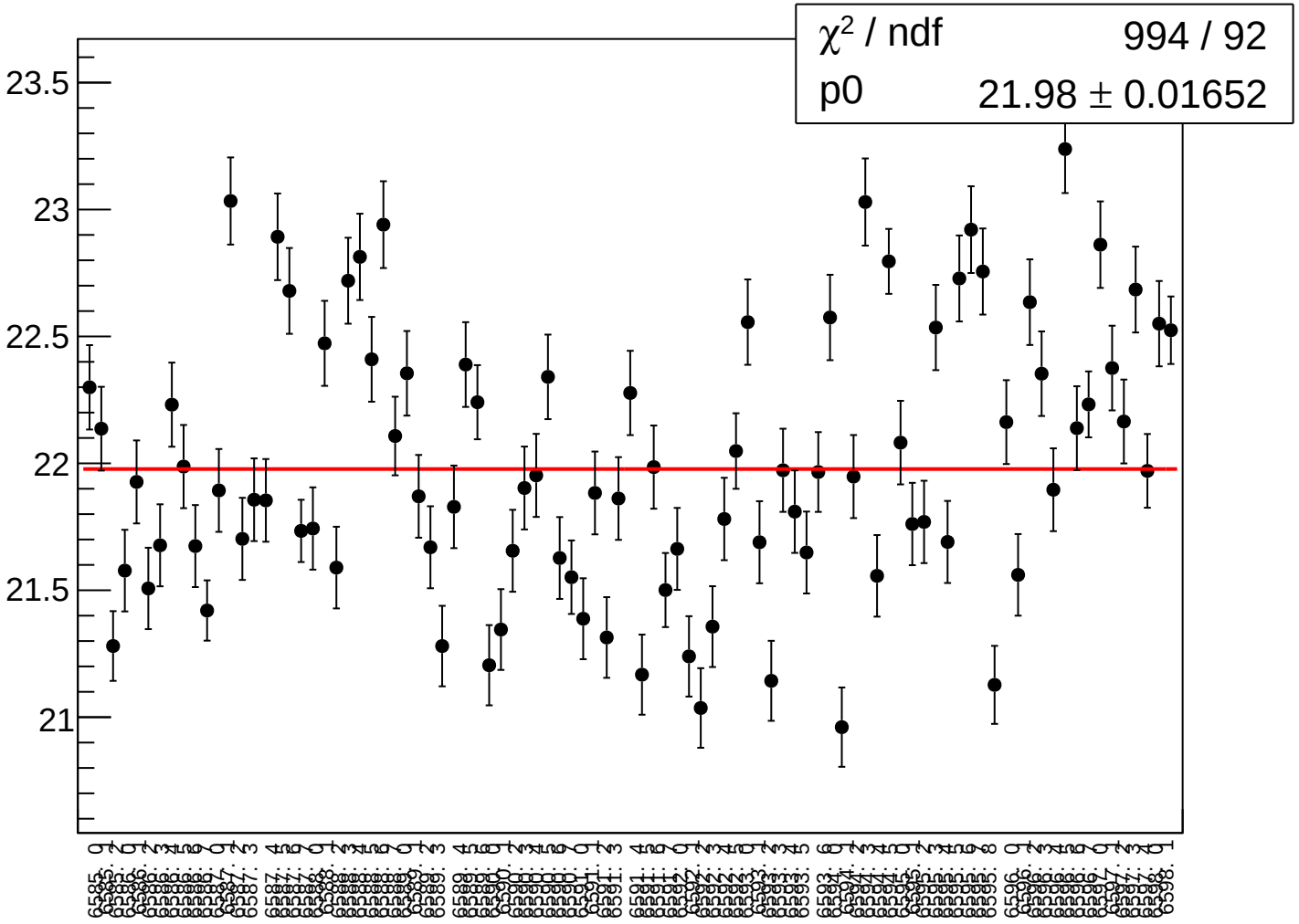

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.836e+04 / 92
p0 9.945 ± 0.007513
14
13
12
11
10
9

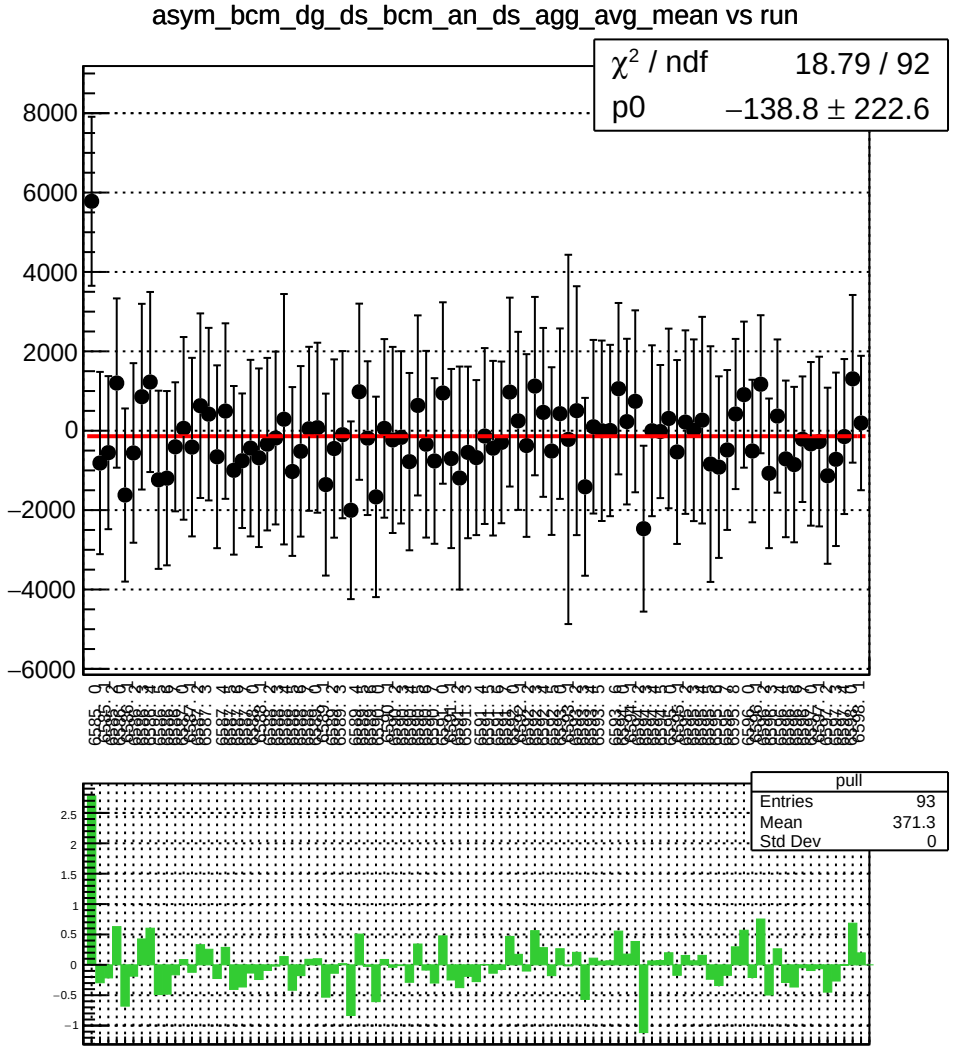

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.31 / 92
p0 −158.4 ± 224.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 383.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.001916
Std Dev 0.4556
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

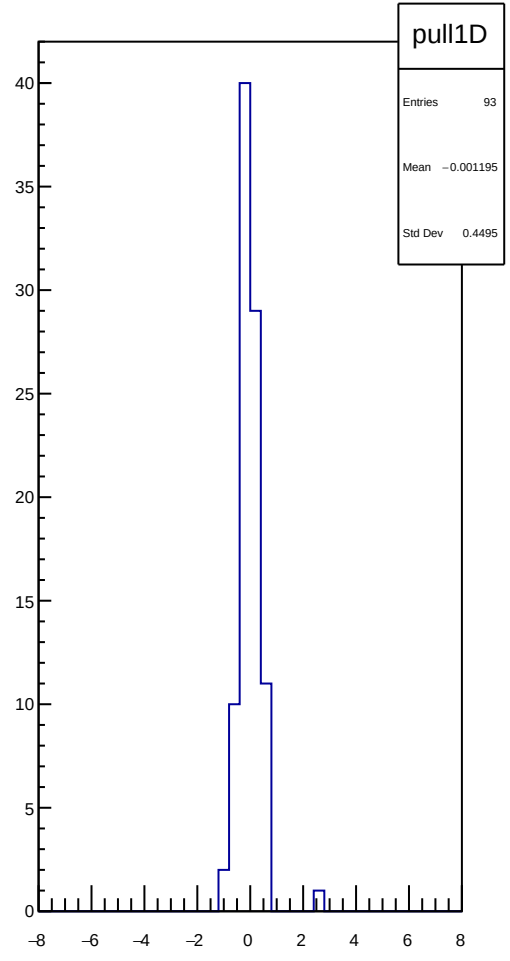

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.751e+04 / 92
p0 210 ± 0.1586
450
400
350
300
250
200
150

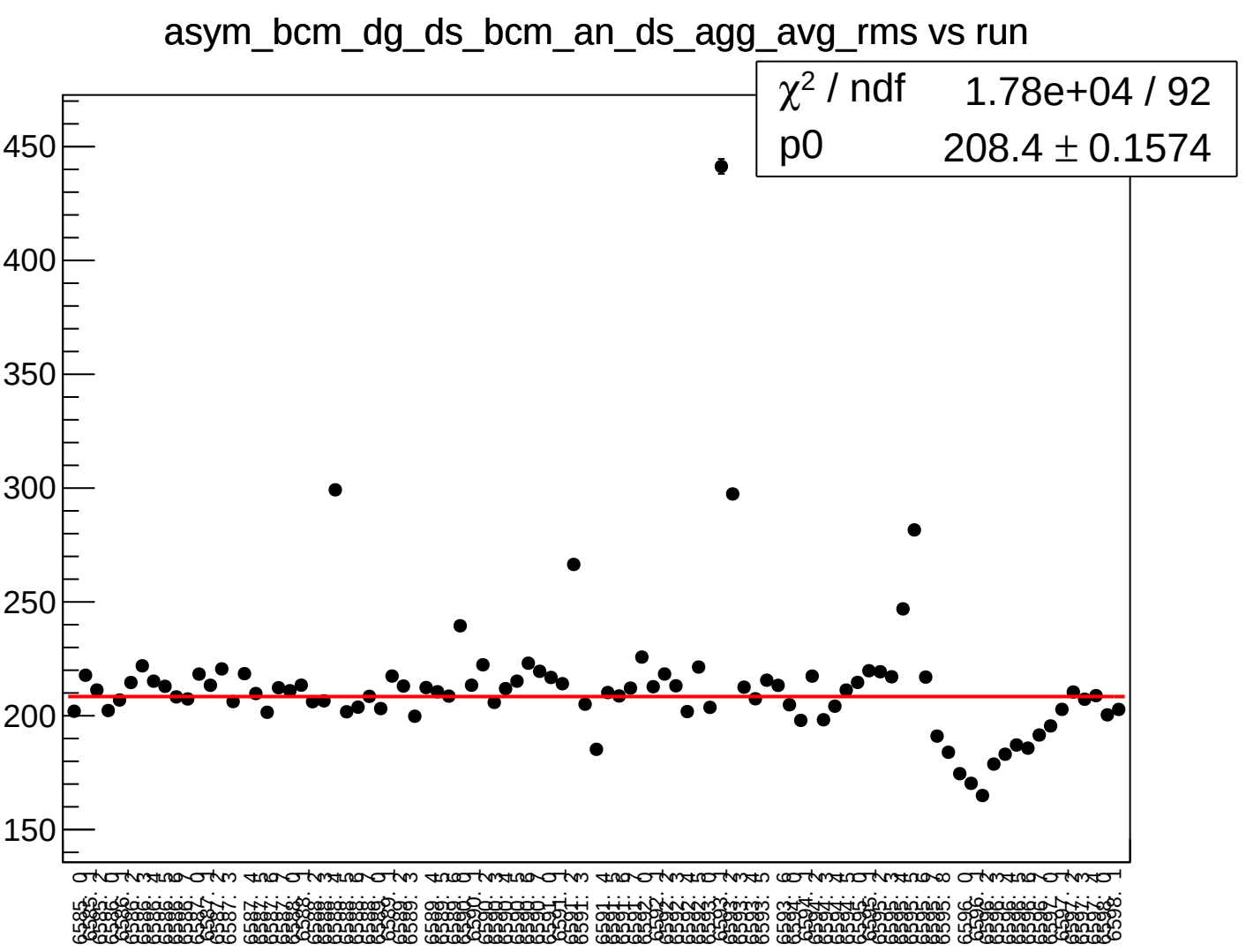

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 80.56 / 92
p0 −5.82 ± 23.37
pull
Entries 93
Mean −12.08
Std Dev 67.03

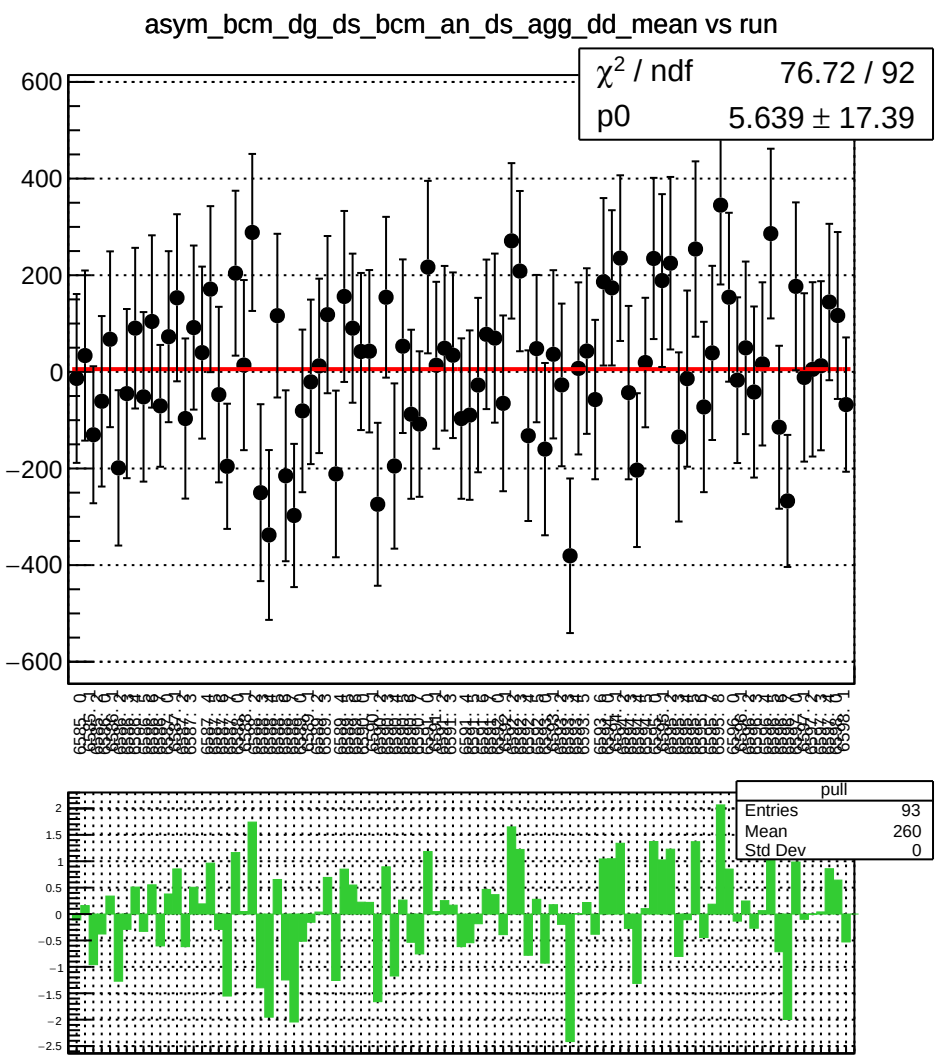

pull1D
Entries 93
Mean −0.0112
Std Dev 0.9306

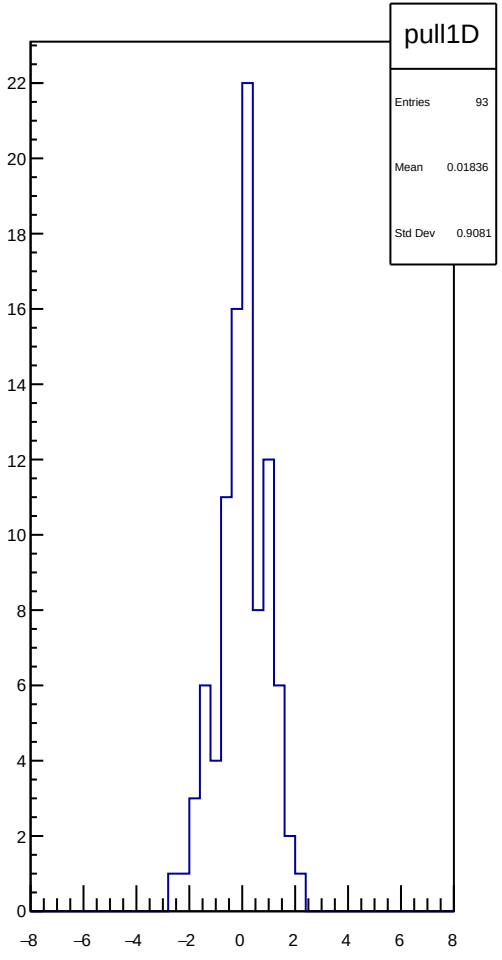

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 994 / 92
p0 21.98 ± 0.01652
23.5
23
22.5
22
21.5
21

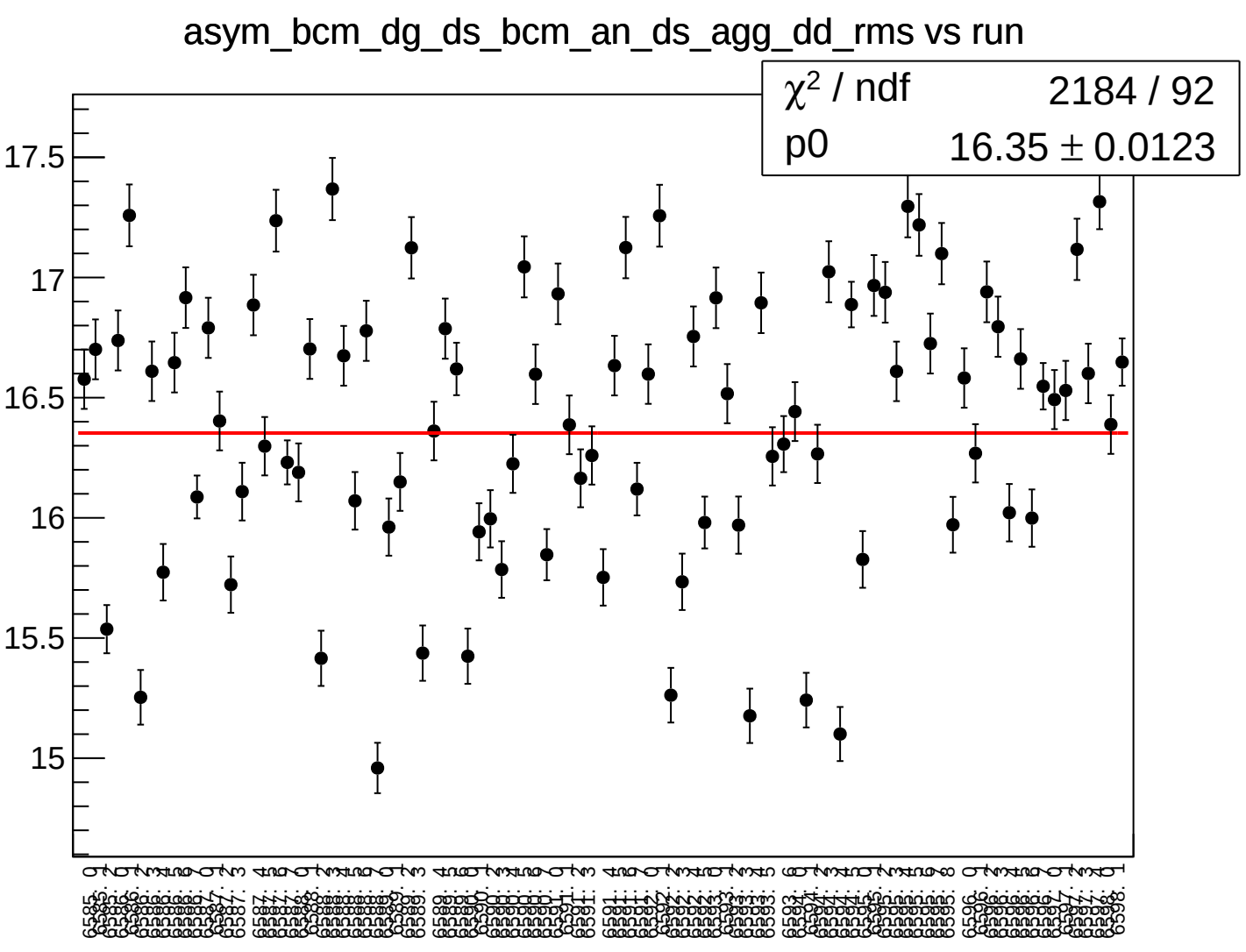

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.79 / 92
p0 −138.8 ± 222.6
pull
Entries 93
Mean 371.3
Std Dev 0

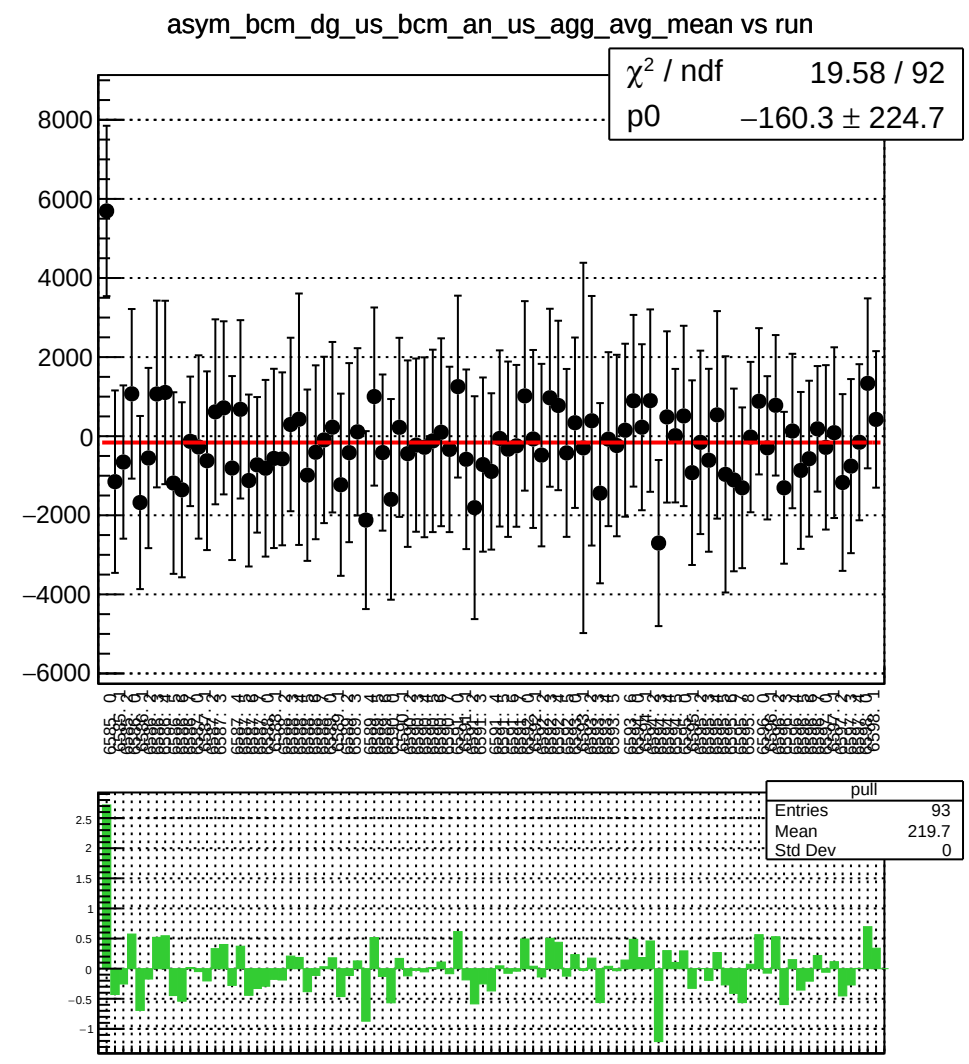

pull1D
Entries 93
Mean −0.001195
Std Dev 0.4495

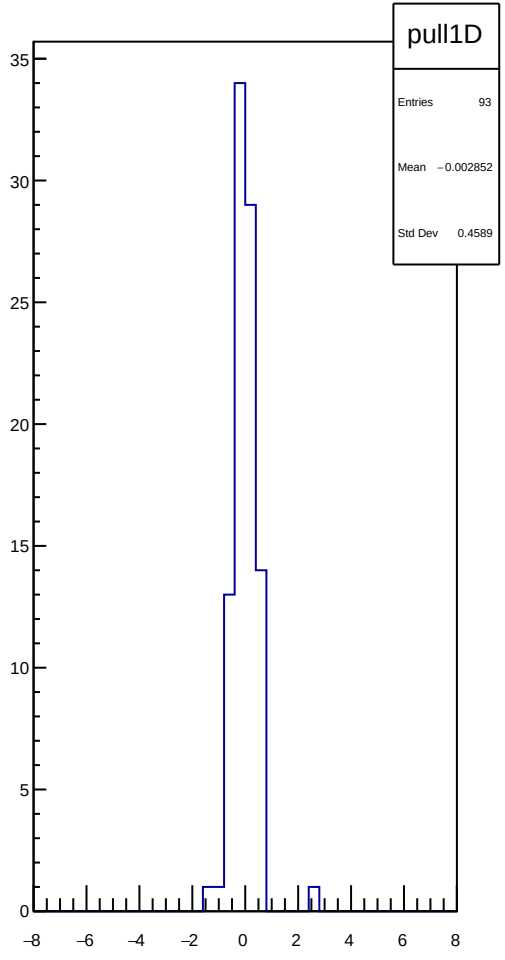

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.78e+04 / 92
p0 208.4 ± 0.1574
450
400
350
300
250
200
150

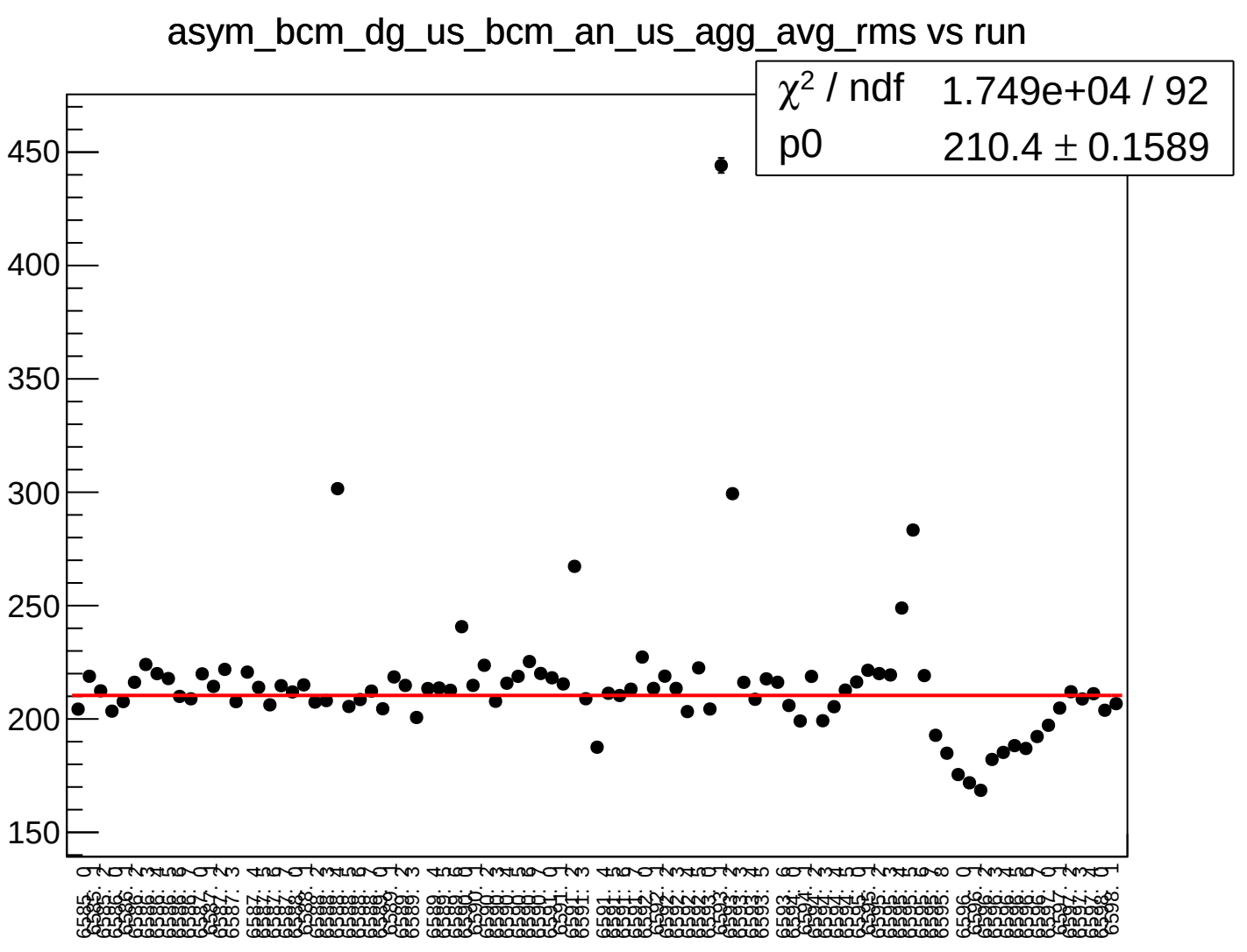

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 76.72 / 92
p0 5.639 ± 17.39
pull
Entries 93
Mean 260
Std Dev 0

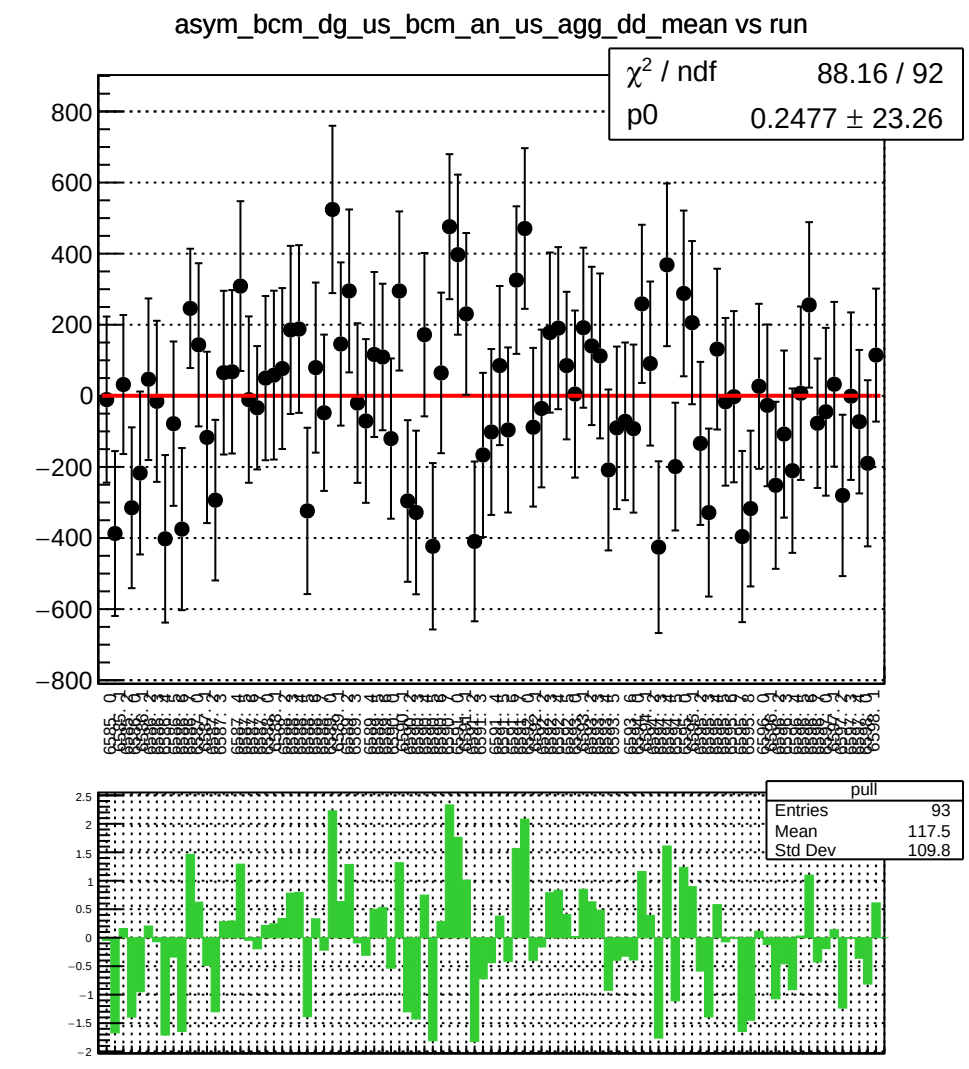

pull1D
Entries 93
Mean 0.01836
Std Dev 0.9081

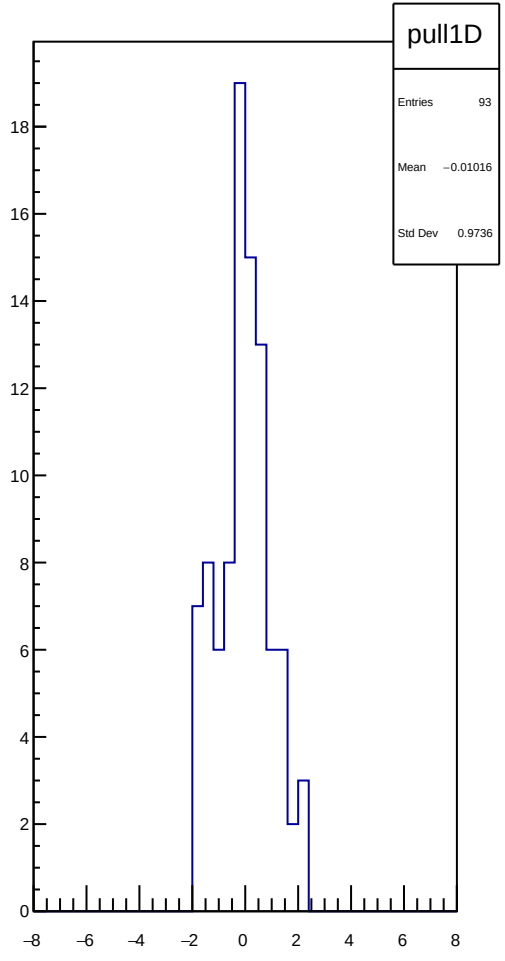

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2184 / 92
p0 16.35 ± 0.0123
17.5
17
16.5
16
15.5
15

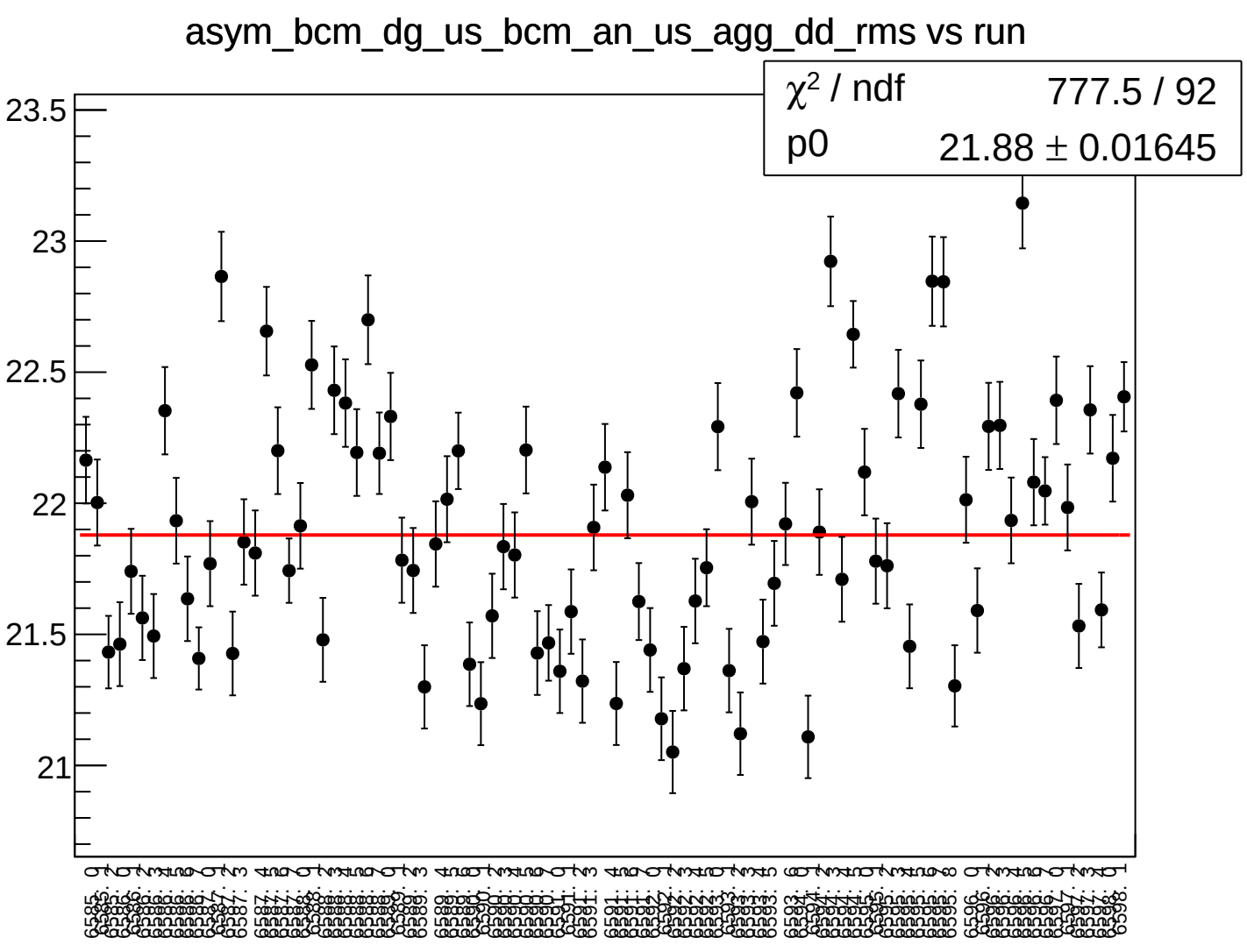

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.58 / 92
p0 −160.3 ± 224.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 219.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

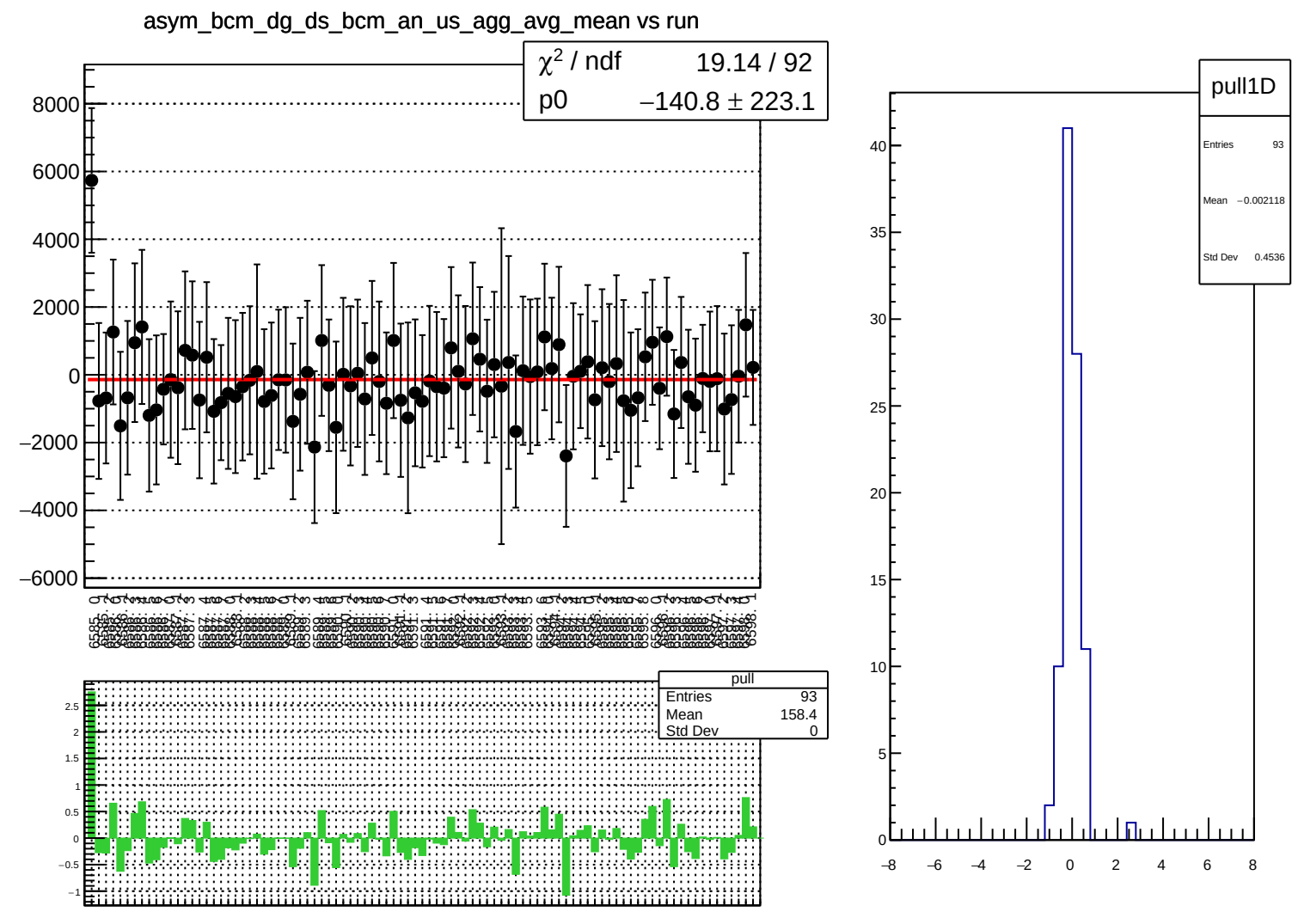

pull1D
Entries 93
Mean −0.002852
Std Dev 0.4589
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

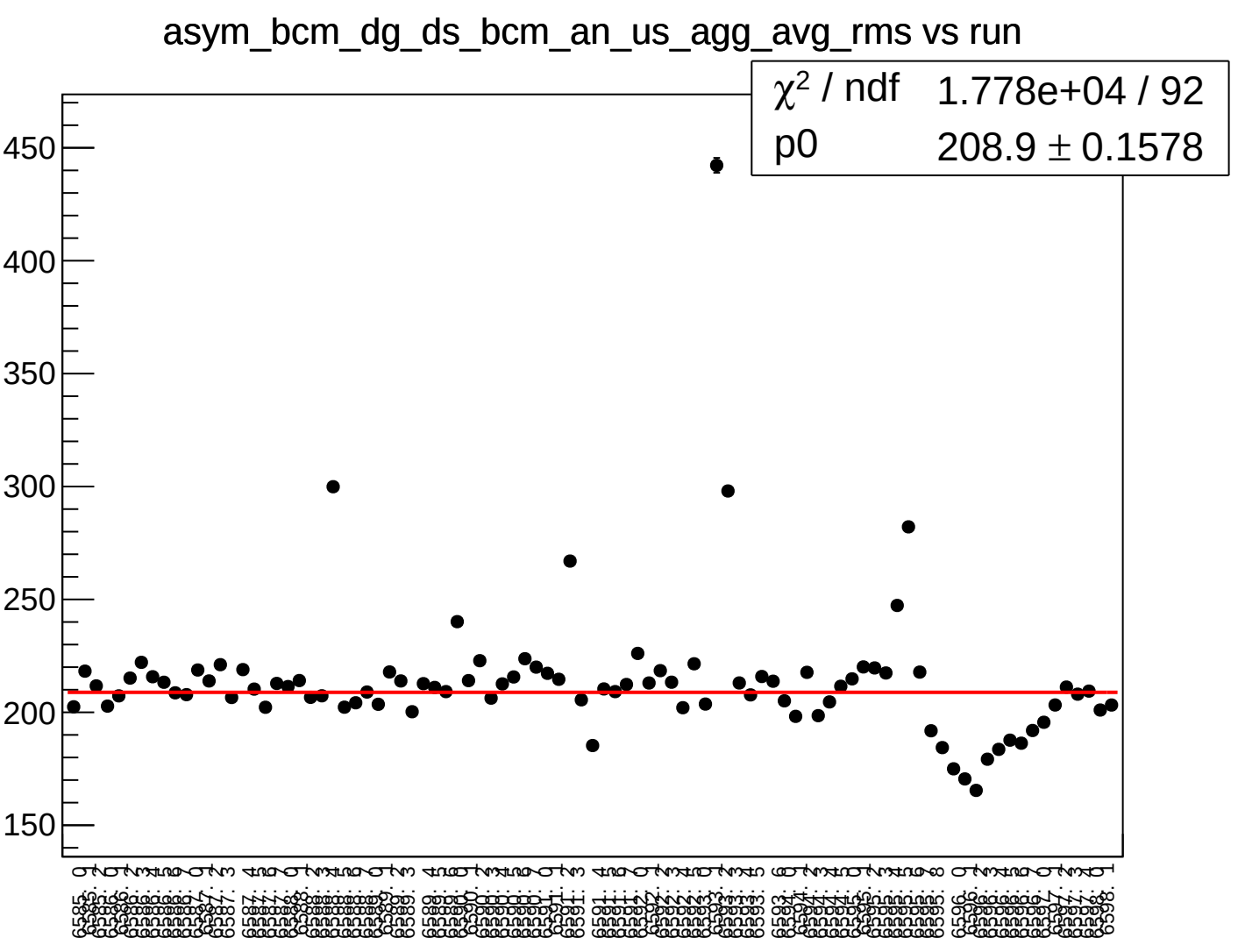

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.749e+04 / 92
p0 210.4 ± 0.1589
450
400
350
300
250
200
150

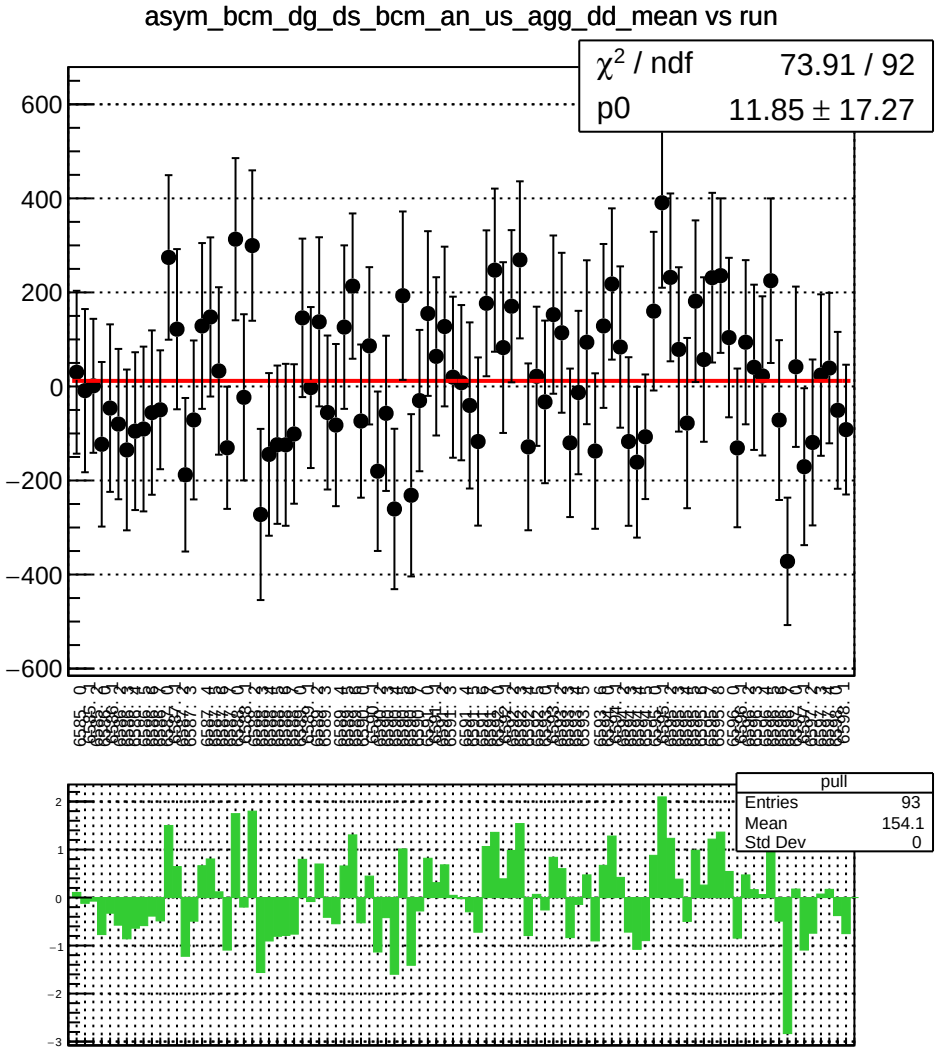

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.16 / 92
p0 0.2477 ± 23.26
pull
Entries 93
Mean 117.5
Std Dev 109.8

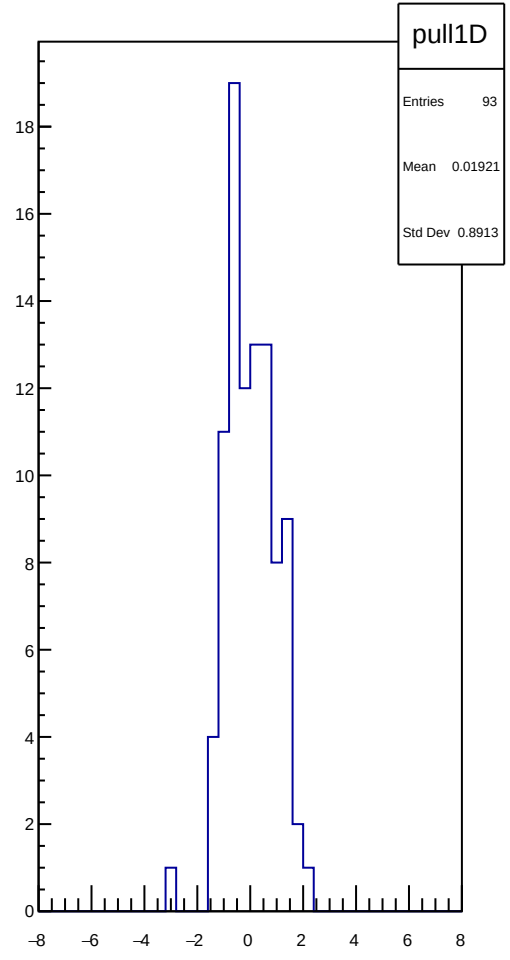

pull1D
Entries 93
Mean −0.01016
Std Dev 0.9736

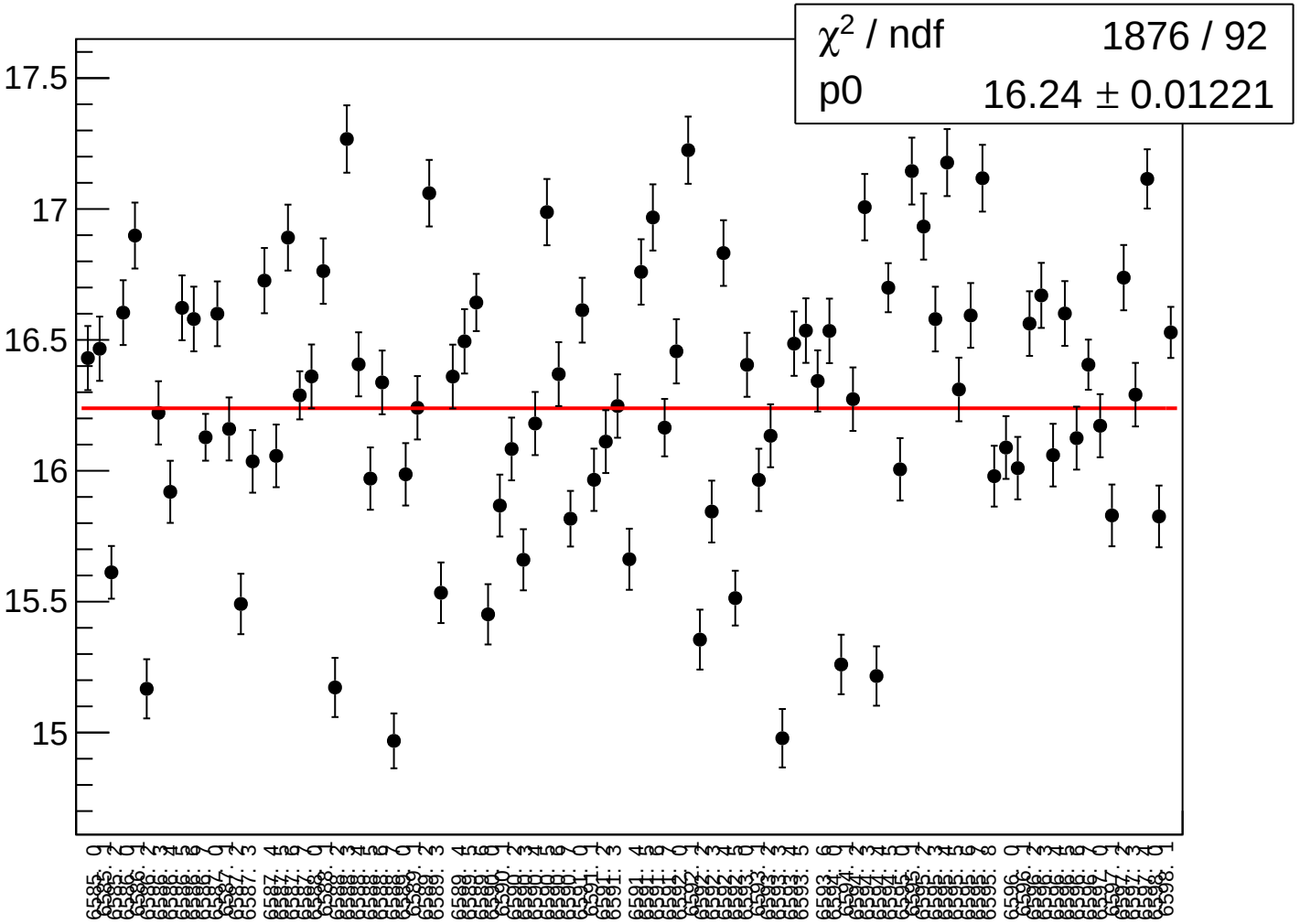

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 777.5 / 92
p0 21.88 ± 0.01645
23.5
23
22.5
22
21.5
21

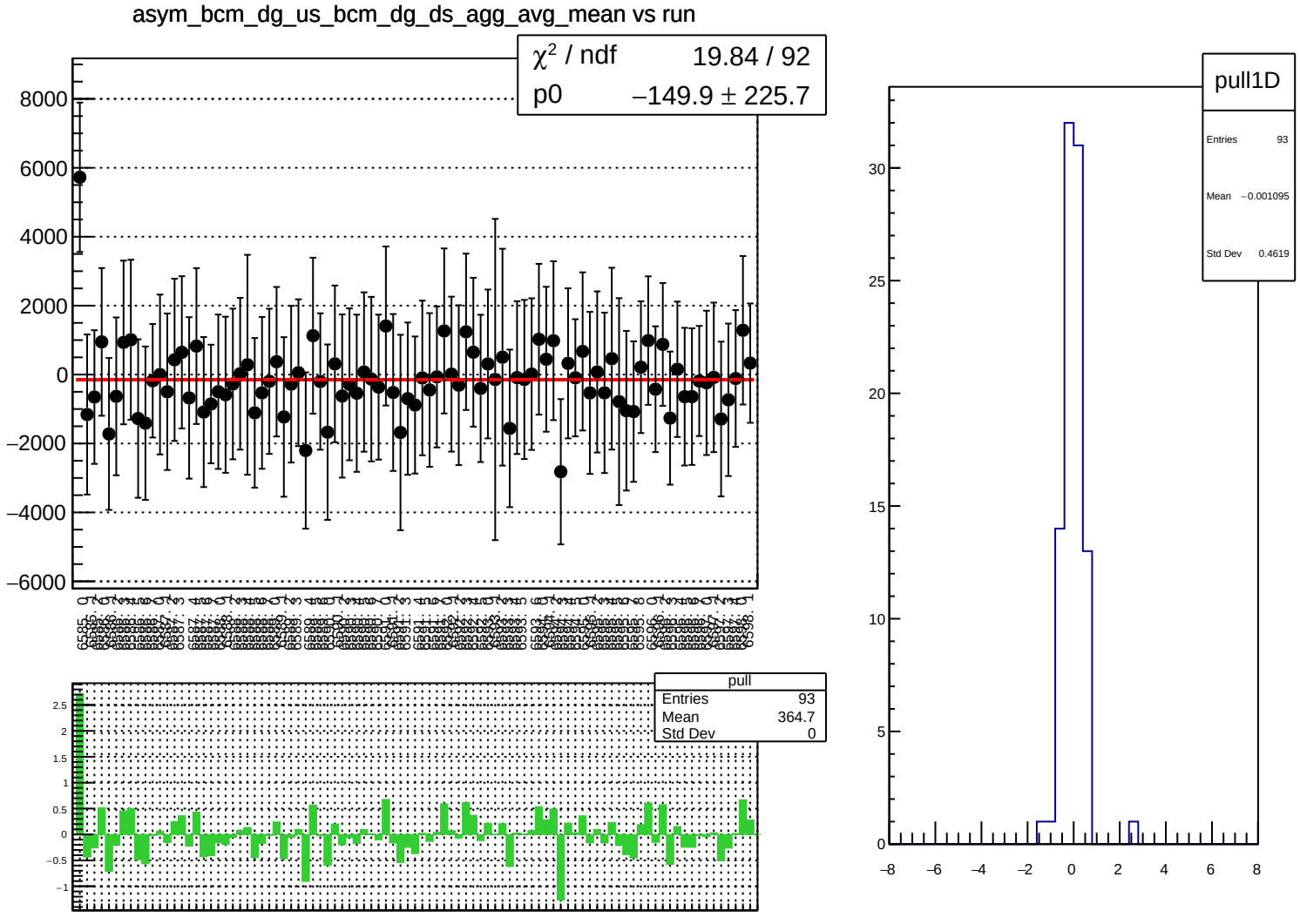

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.14 / 92
p0 −140.8 ± 223.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 158.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.002118
Std Dev 0.4536
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

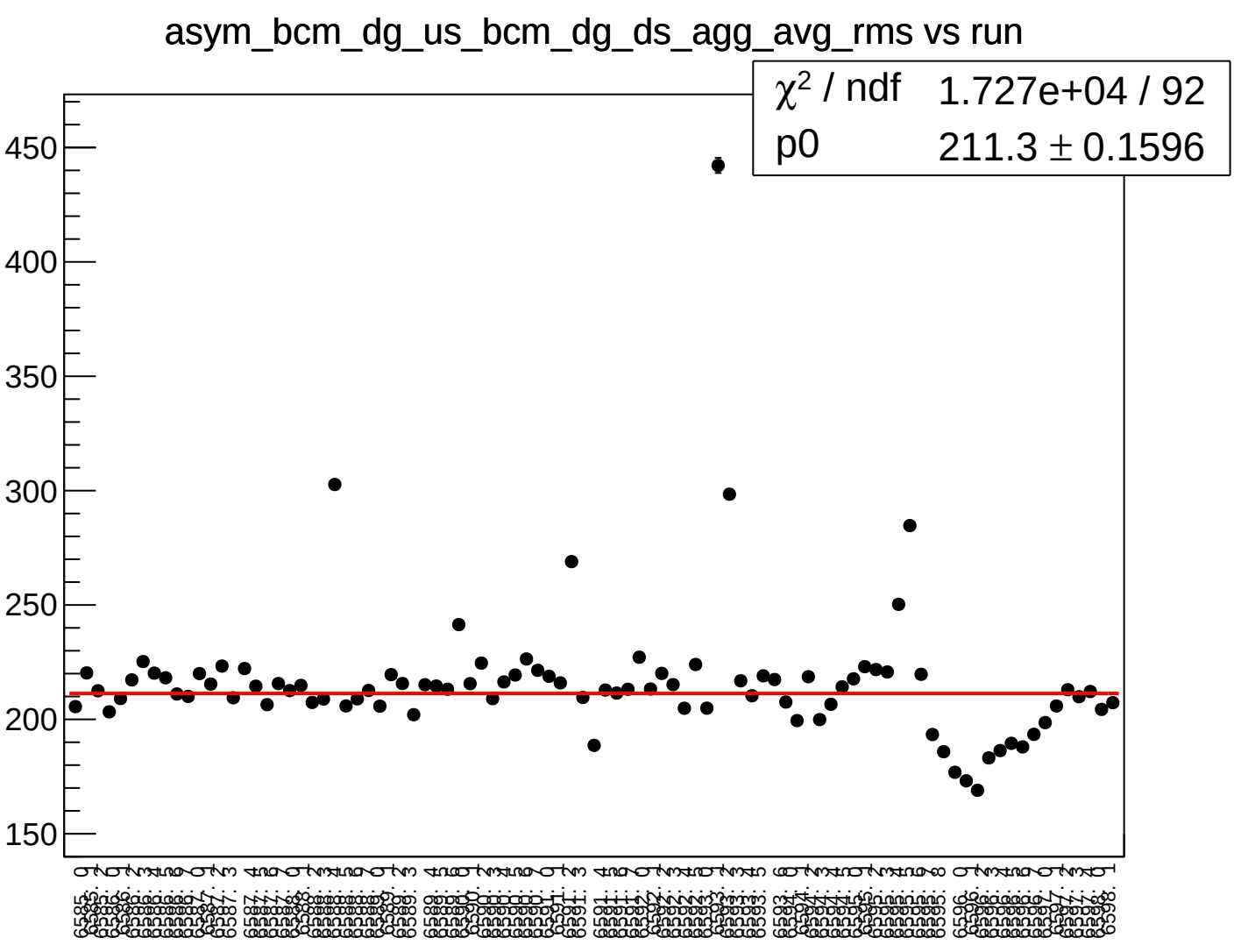

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.778e+04 / 92
p0 208.9 ± 0.1578
450
400
350
300
250
200
150

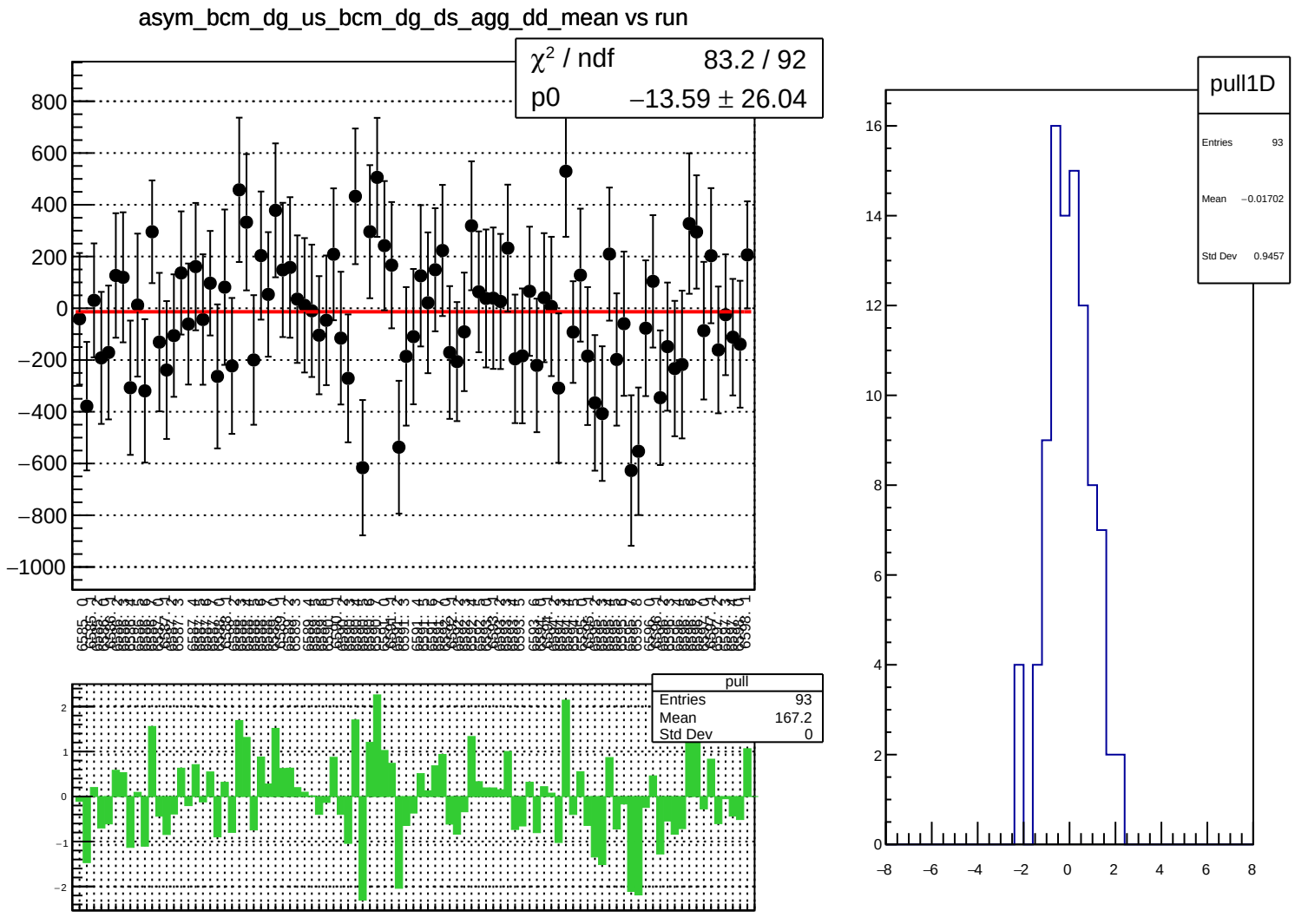

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 73.91 / 92
p0 11.85 ± 17.27
pull
Entries 93
Mean 154.1
Std Dev 0

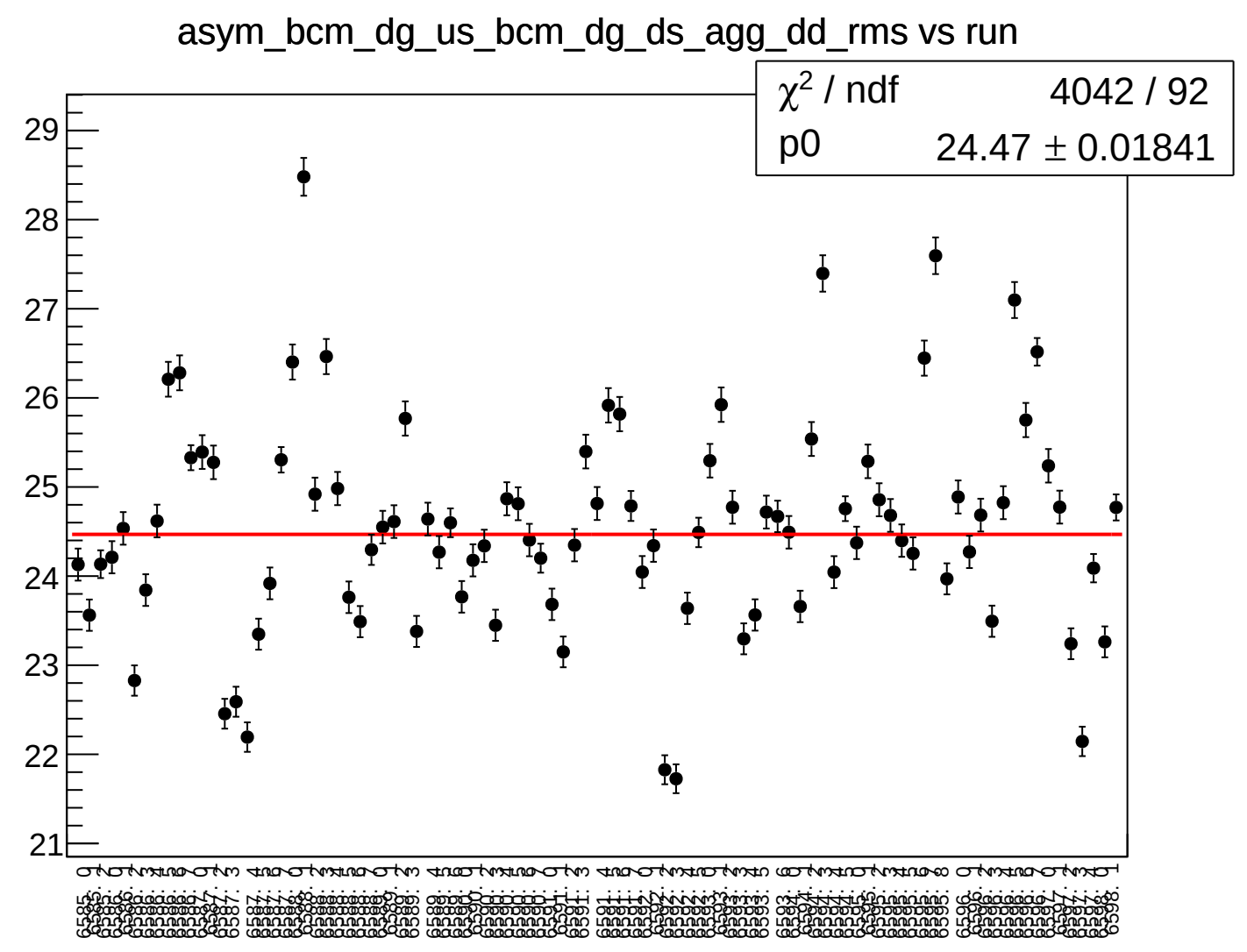

pull1D
Entries 93
Mean 0.01921
Std Dev 0.8913

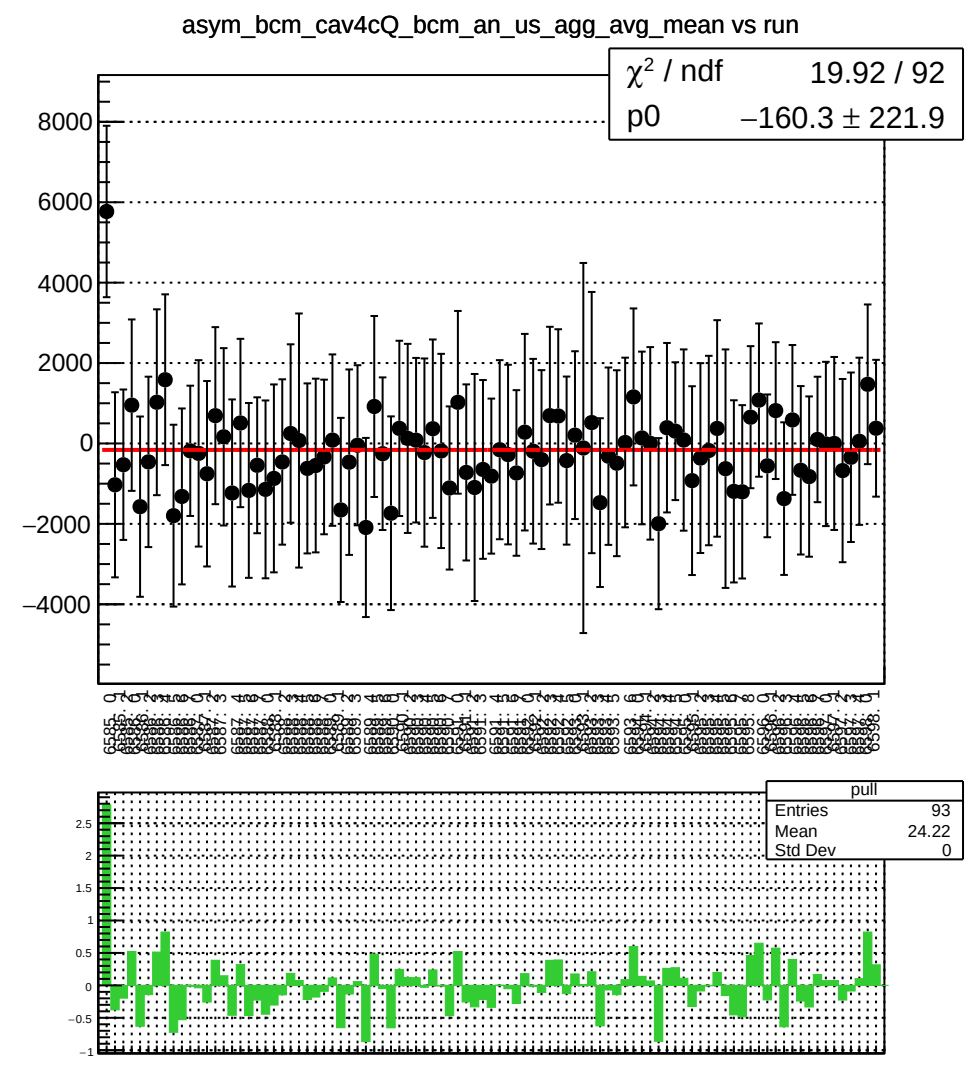

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1876 / 92
p0 16.24 ± 0.01221
17.5
17
16.5
16
15.5
15

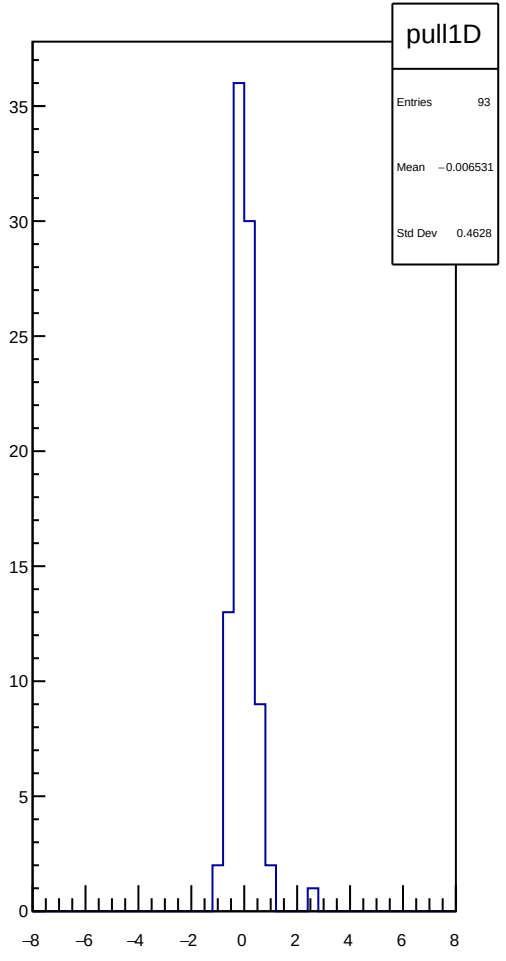

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.84 / 92
p0 −149.9 ± 225.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 364.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.001095
Std Dev 0.4619
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

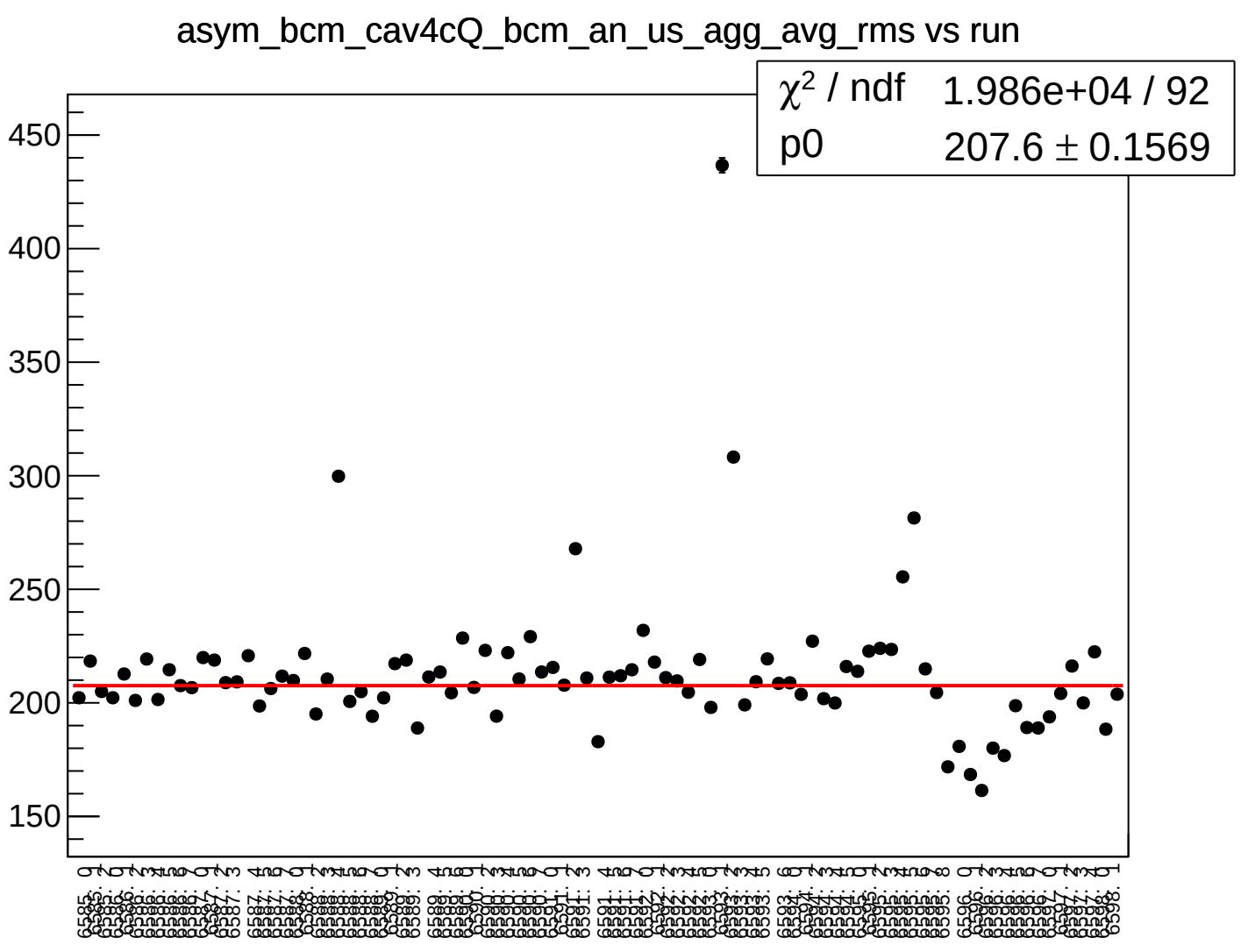

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.727e+04 / 92
p0 211.3 ± 0.1596
450
400
350
300
250
200
150

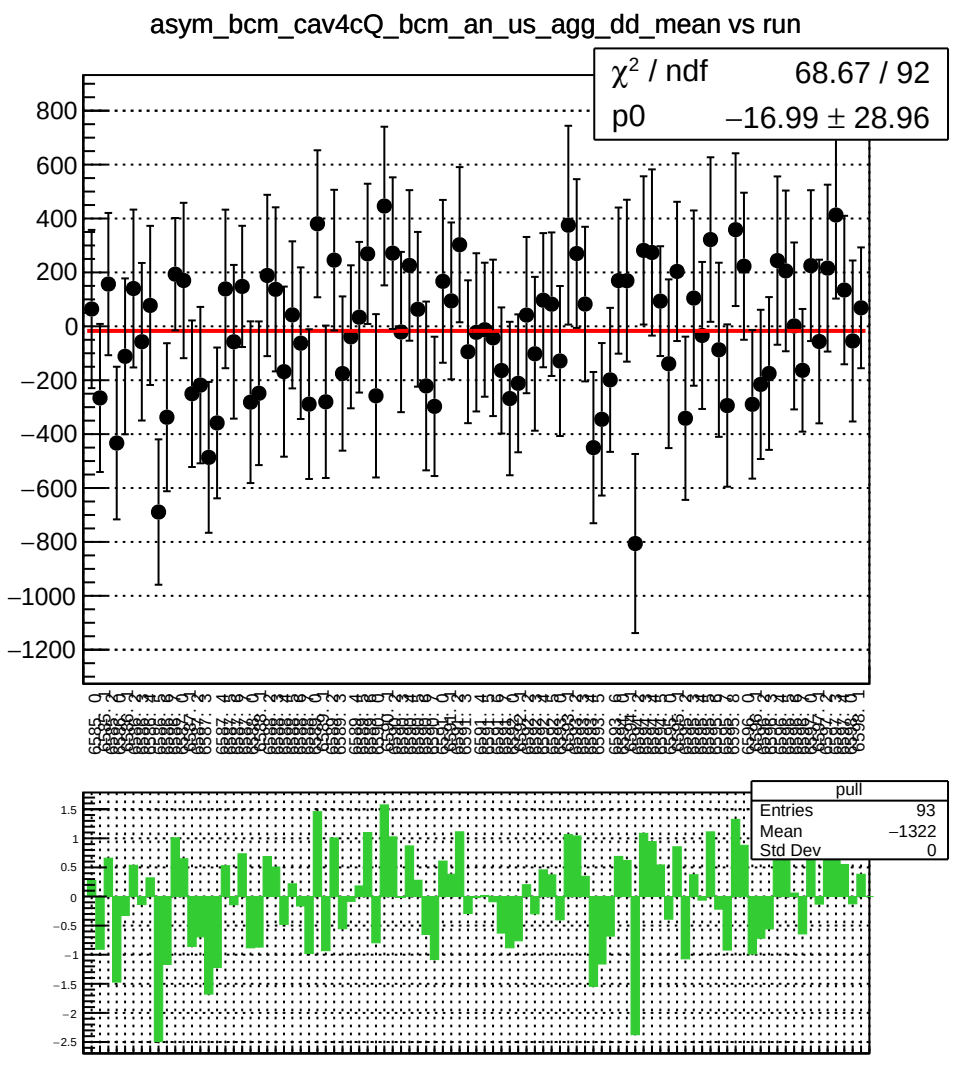

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 83.2 / 92
p0 −13.59 ± 26.04
pull
Entries 93
Mean 167.2
Std Dev 0
pull1D
Entries 93
Mean −0.01702
Std Dev 0.9457

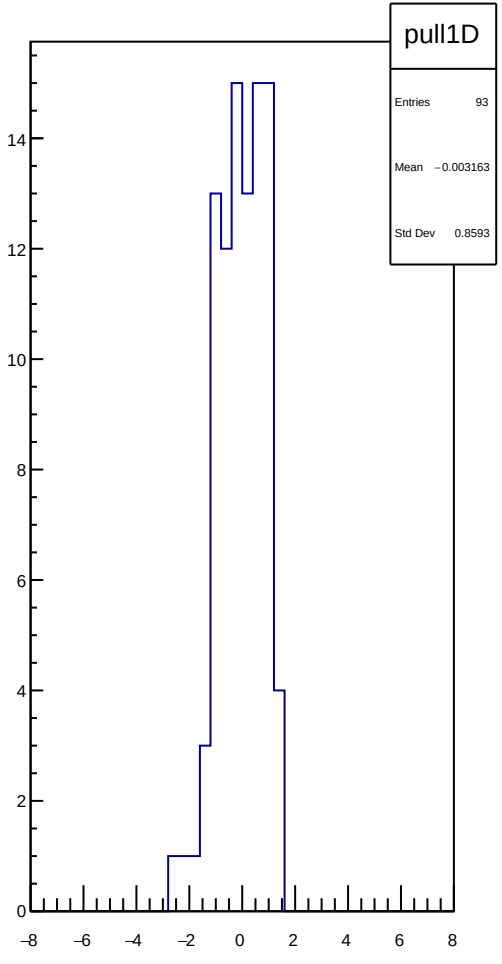

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4042 / 92
p0 24.47 ± 0.01841
29
28
27
26
25
24
23
22
21

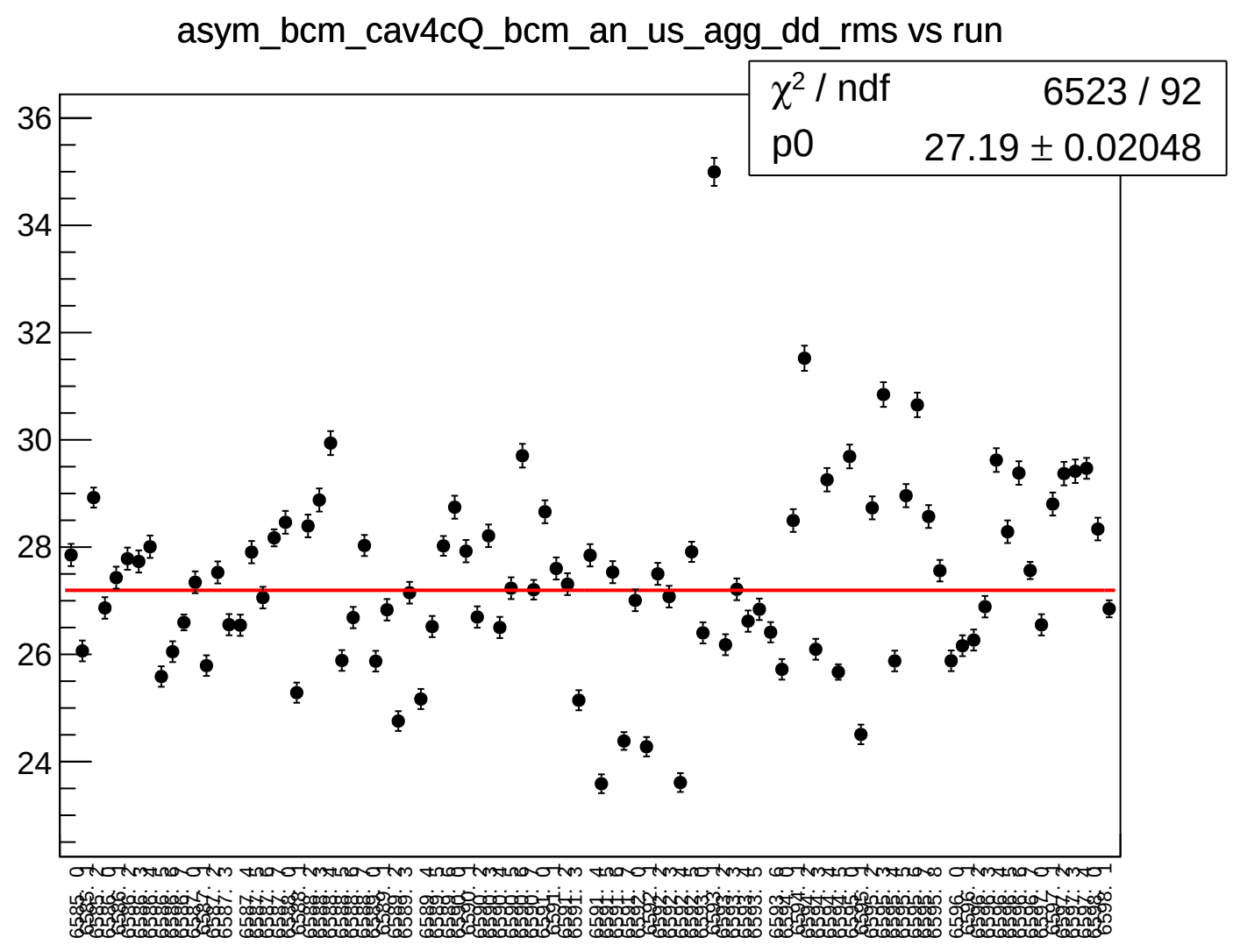

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 19.92 / 92
p0 −160.3 ± 221.9
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 24.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

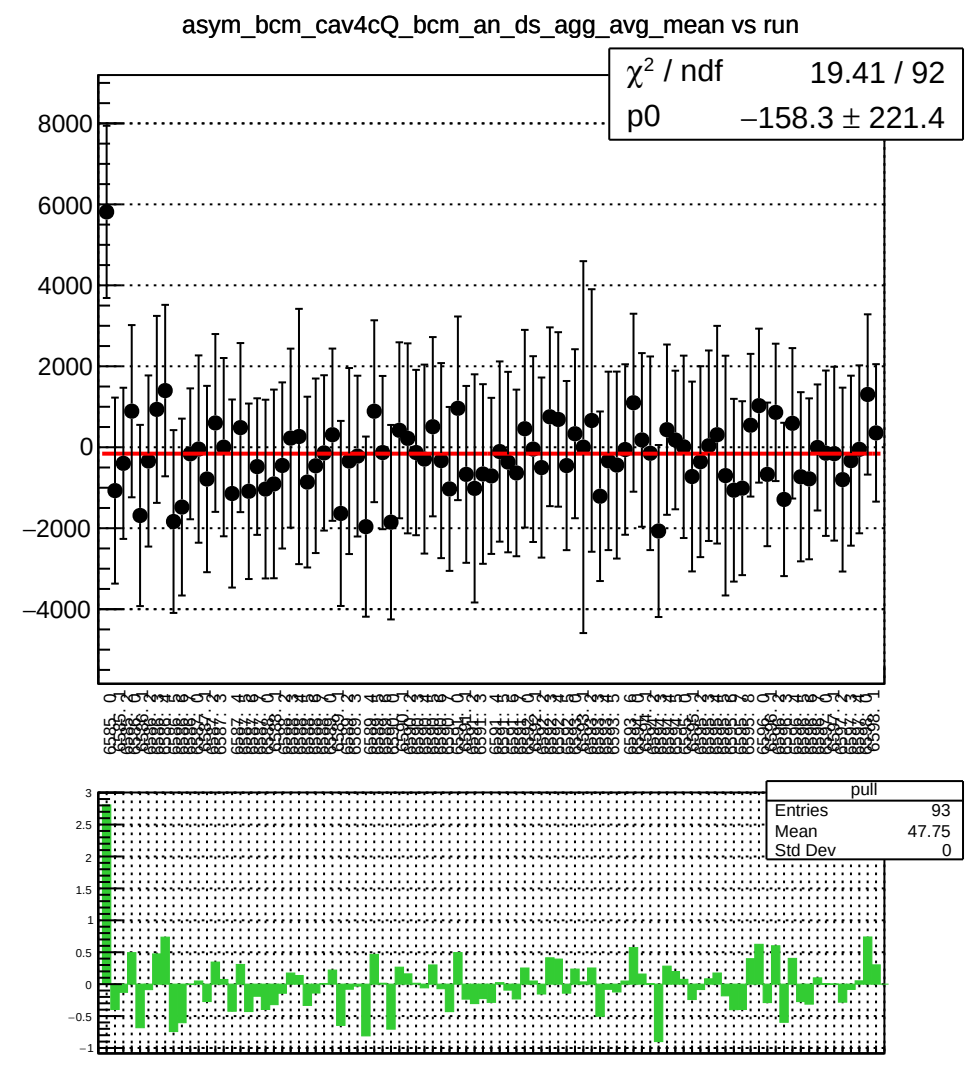

pull1D
Entries 93
Mean −0.006531
Std Dev 0.4628
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

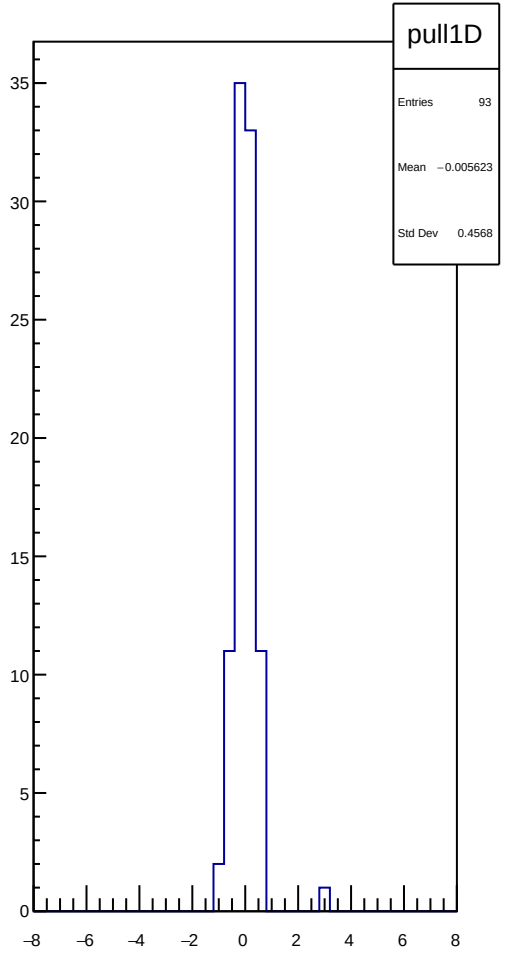

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.986e+04 / 92
p0 207.6 ± 0.1569
450
400
350
300
250
200
150

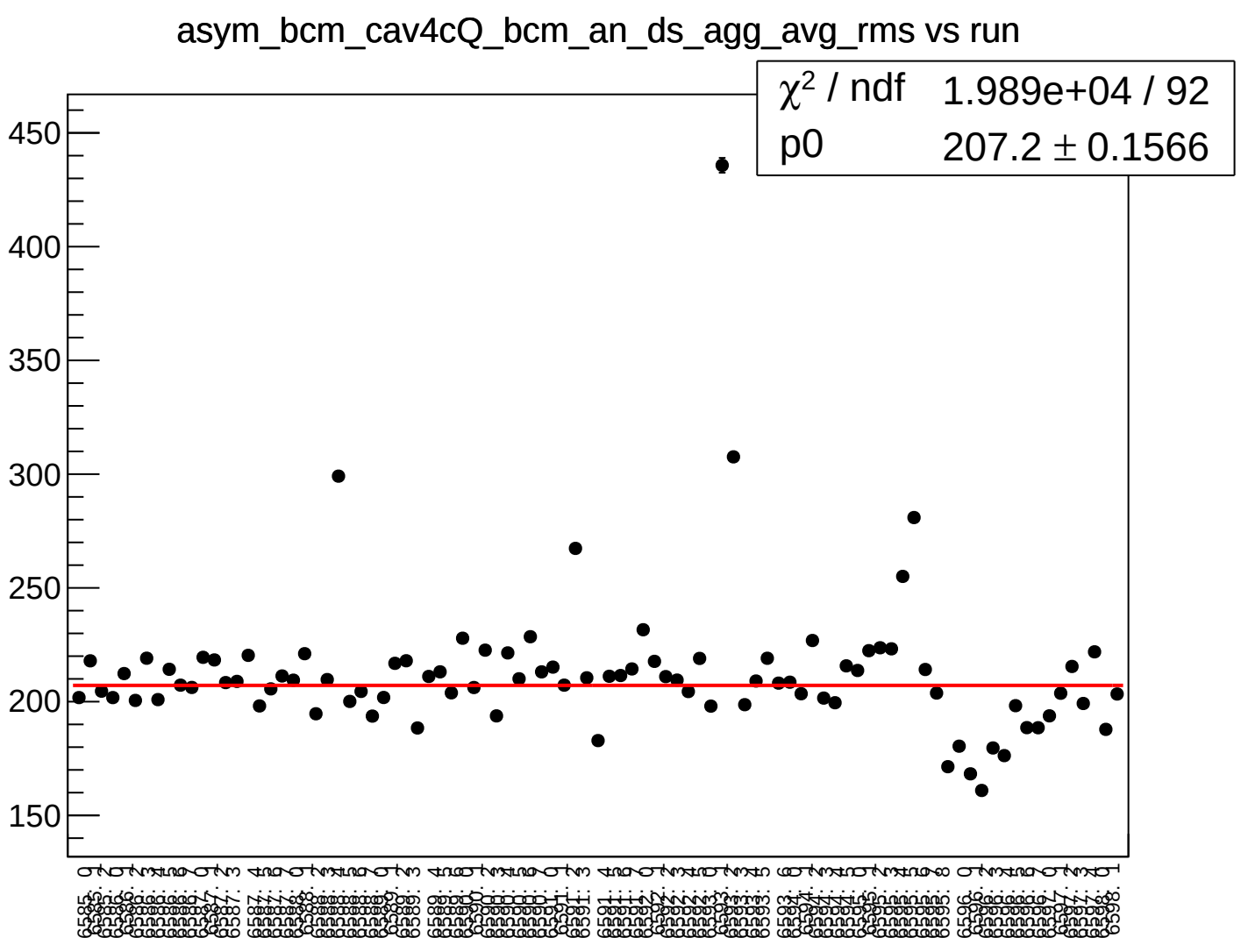

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 68.67 / 92
p0 −16.99 ± 28.96
pull
Entries 93
Mean −1322
Std Dev 0

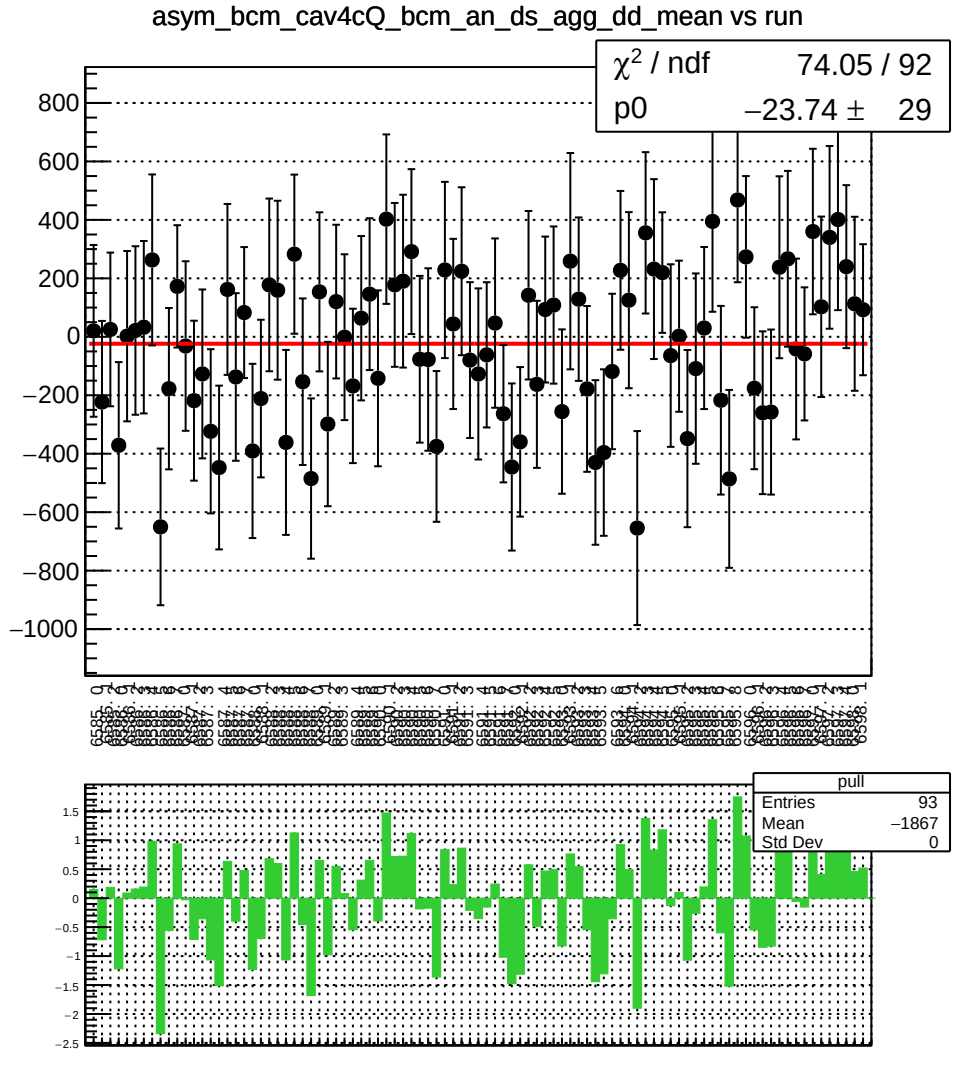

pull1D
Entries 93
Mean −0.003163
Std Dev 0.8593

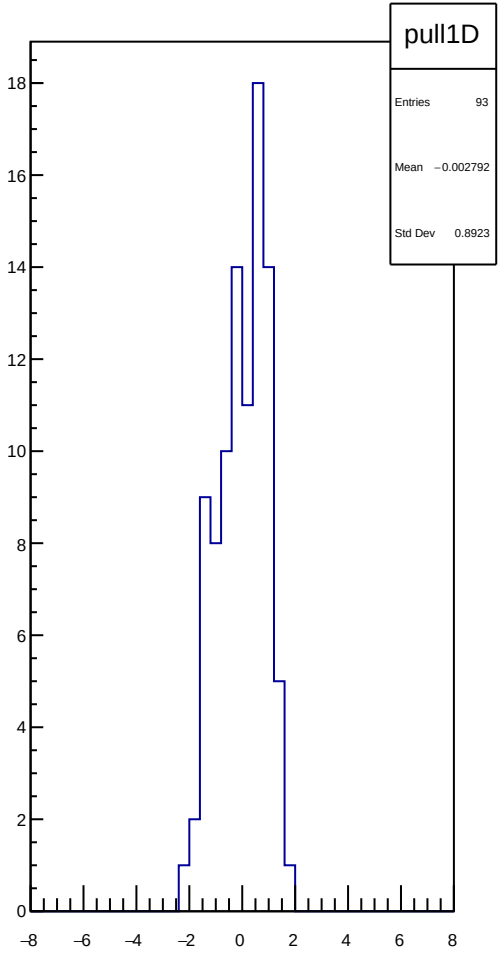

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6523 / 92
p0 27.19 ± 0.02048
36
34
32
30
28
26
24

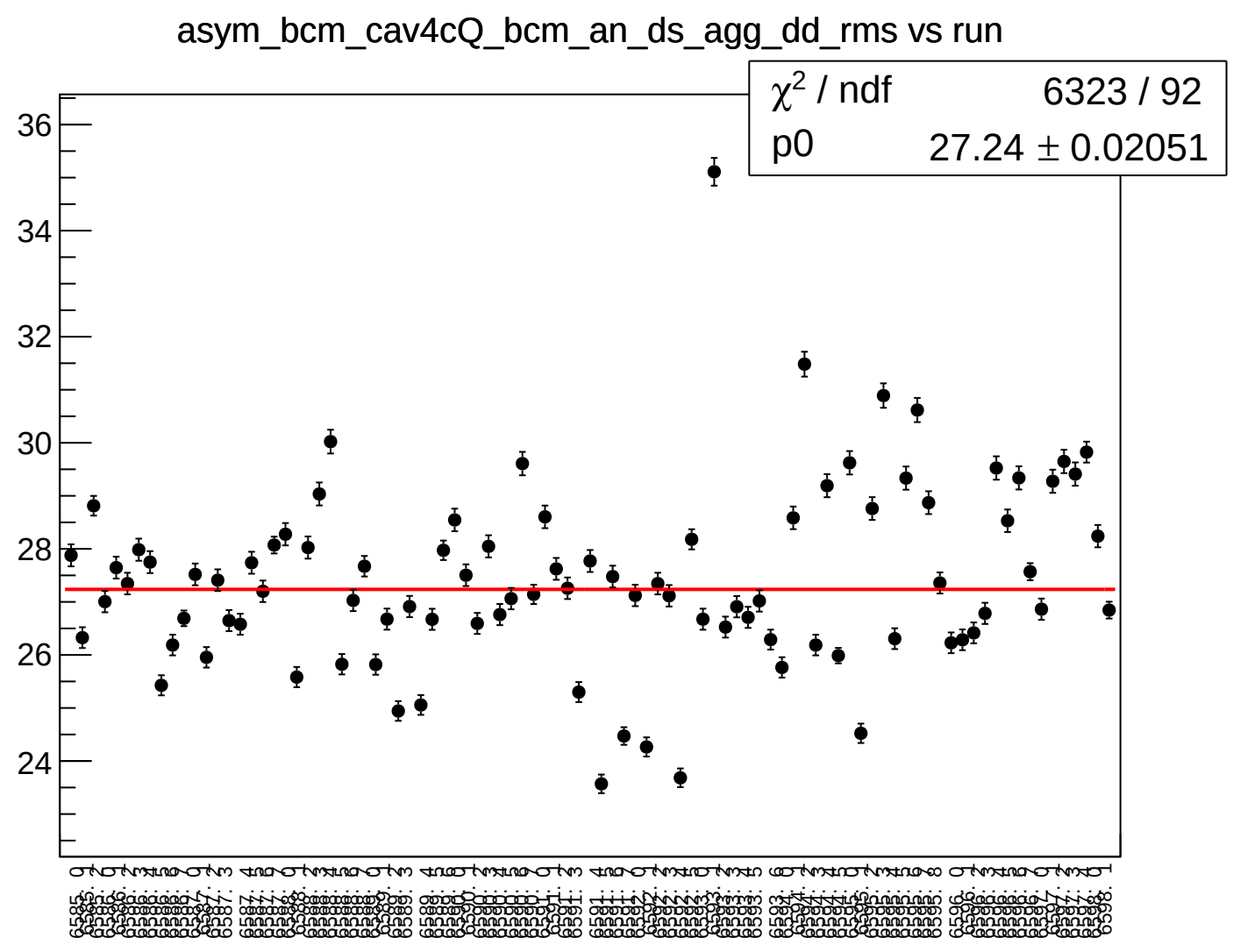

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.41 / 92
p0 −158.3 ± 221.4
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 47.75
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1

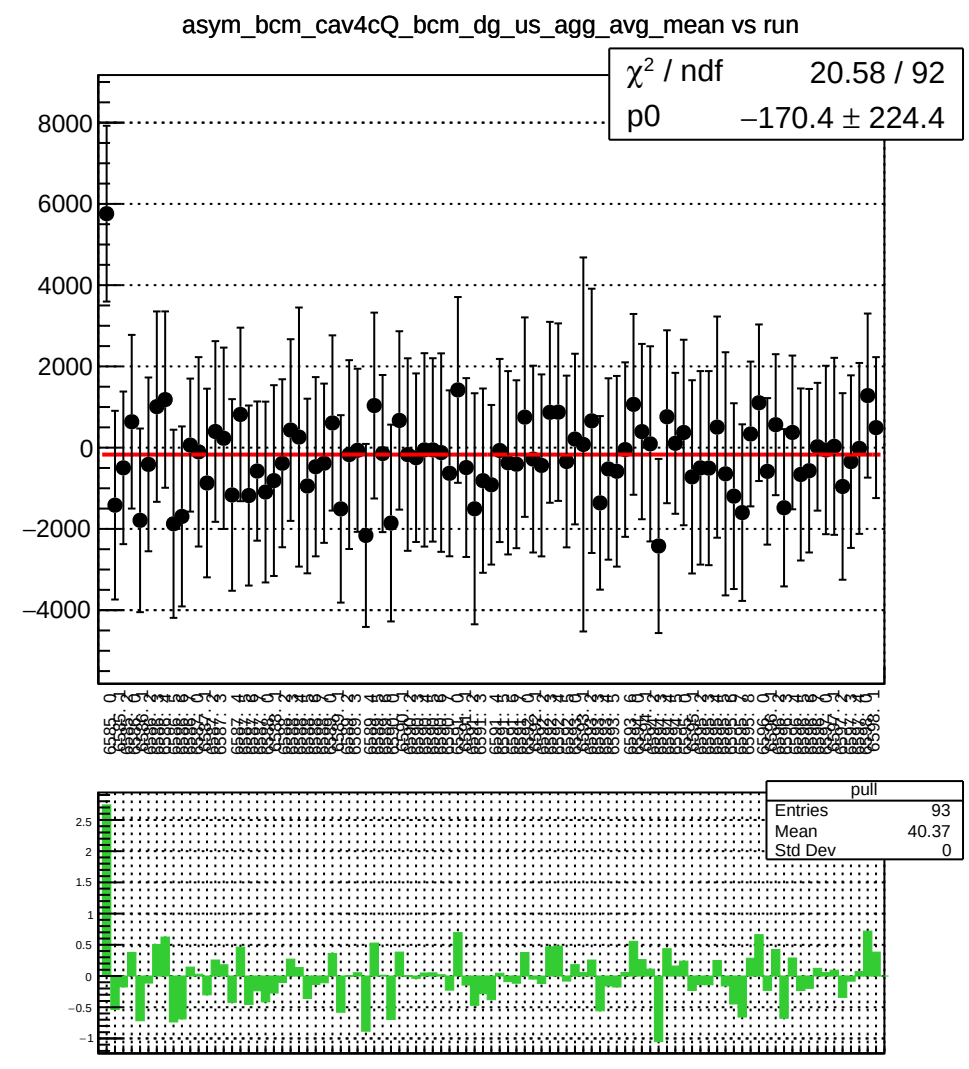

pull1D
Entries 93
Mean −0.005623
Std Dev 0.4568
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

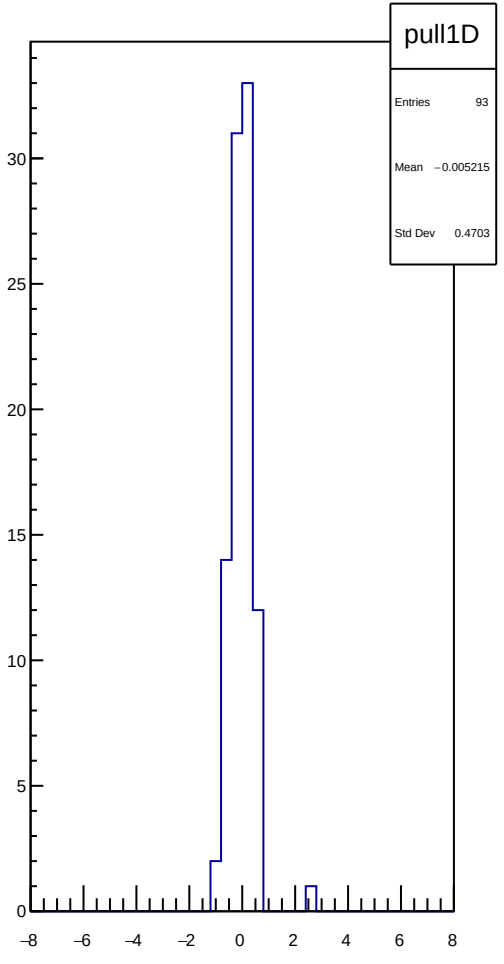

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 1.989e+04 / 92
p0 207.2 ± 0.1566
450
400
350
300
250
200
150

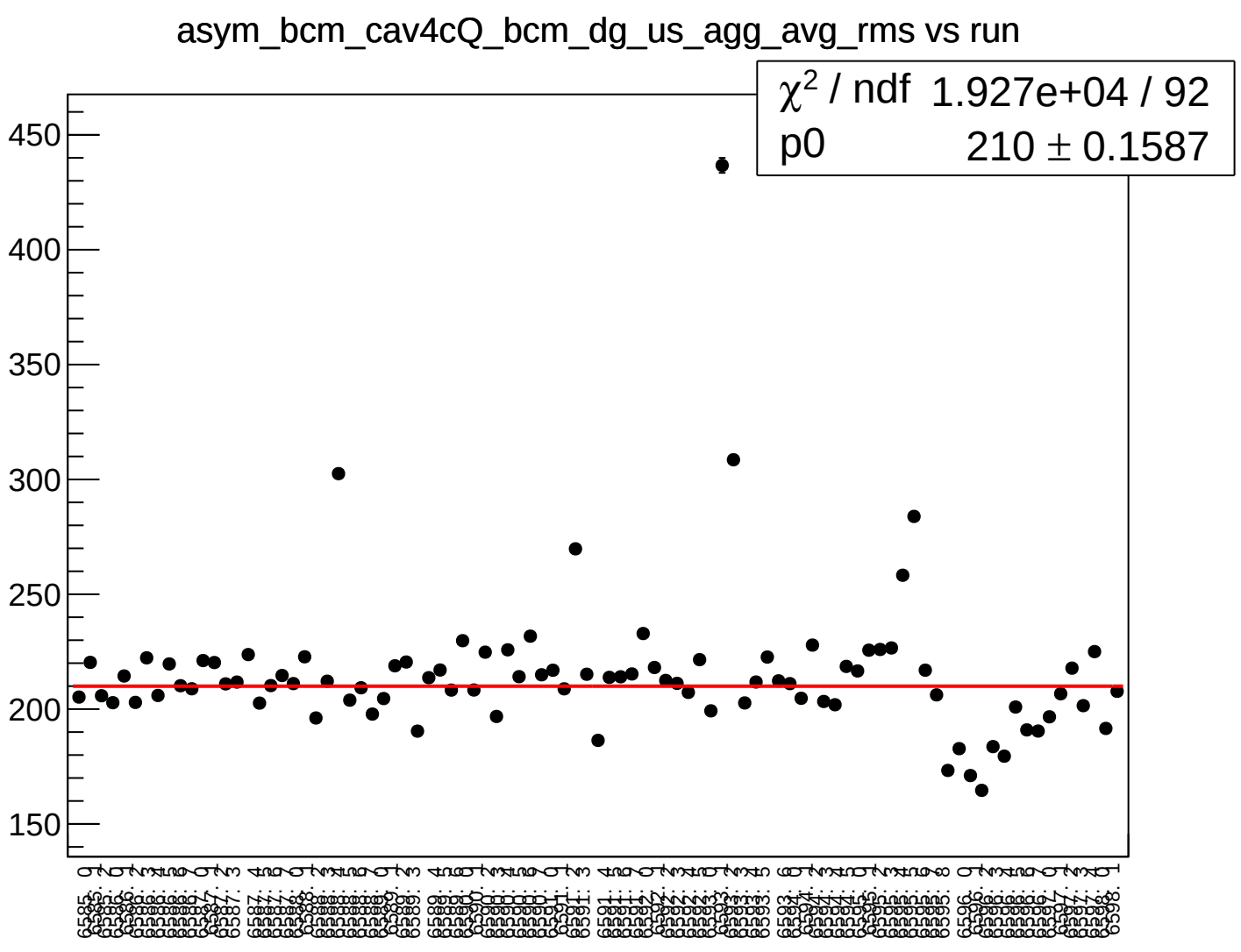

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 74.05 / 92
p0 −23.74 ± 29
pull
Entries 93
Mean −1867
Std Dev 0

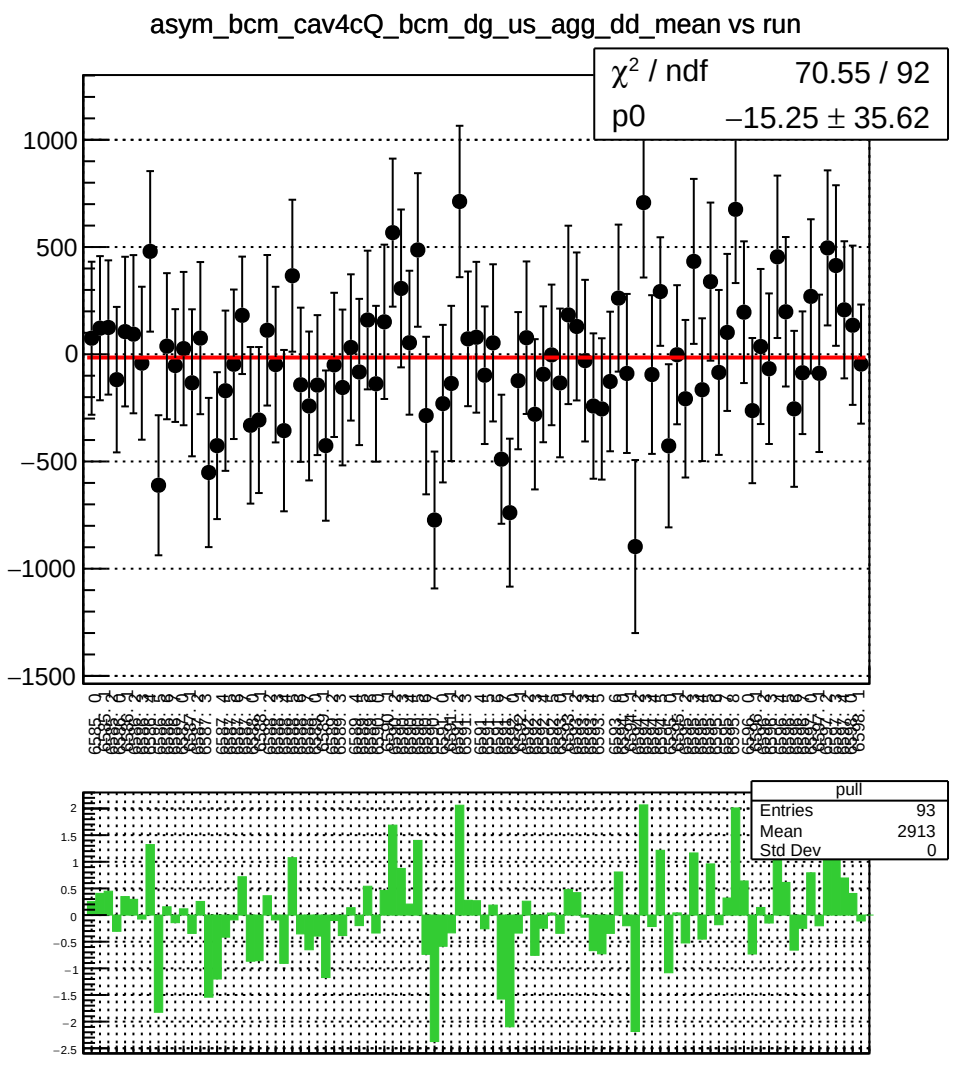

pull1D
Entries 93
Mean −0.002792
Std Dev 0.8923

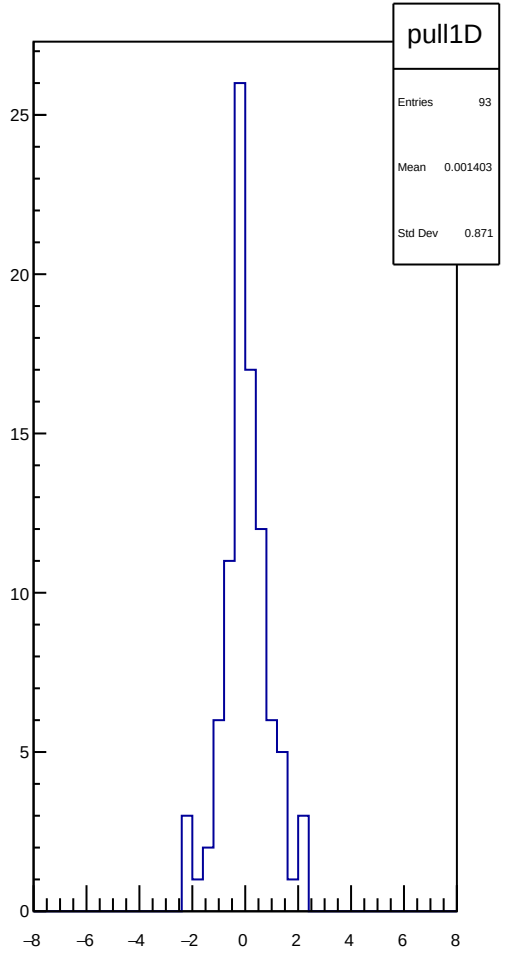

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6323 / 92
p0 27.24 ± 0.02051
36
34
32
30
28
26
24

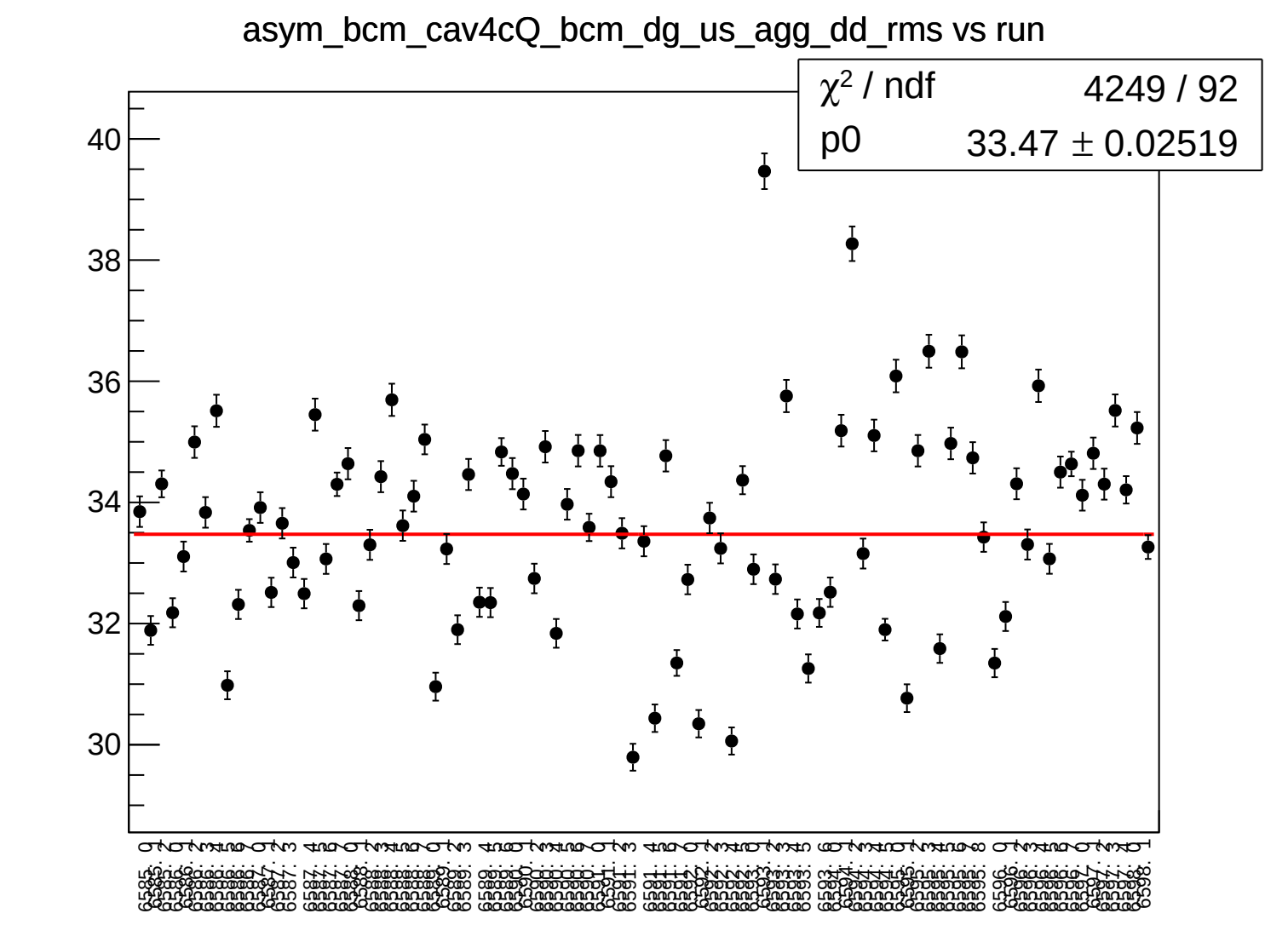

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 20.58 / 92
p0 −170.4 ± 224.4
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 40.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

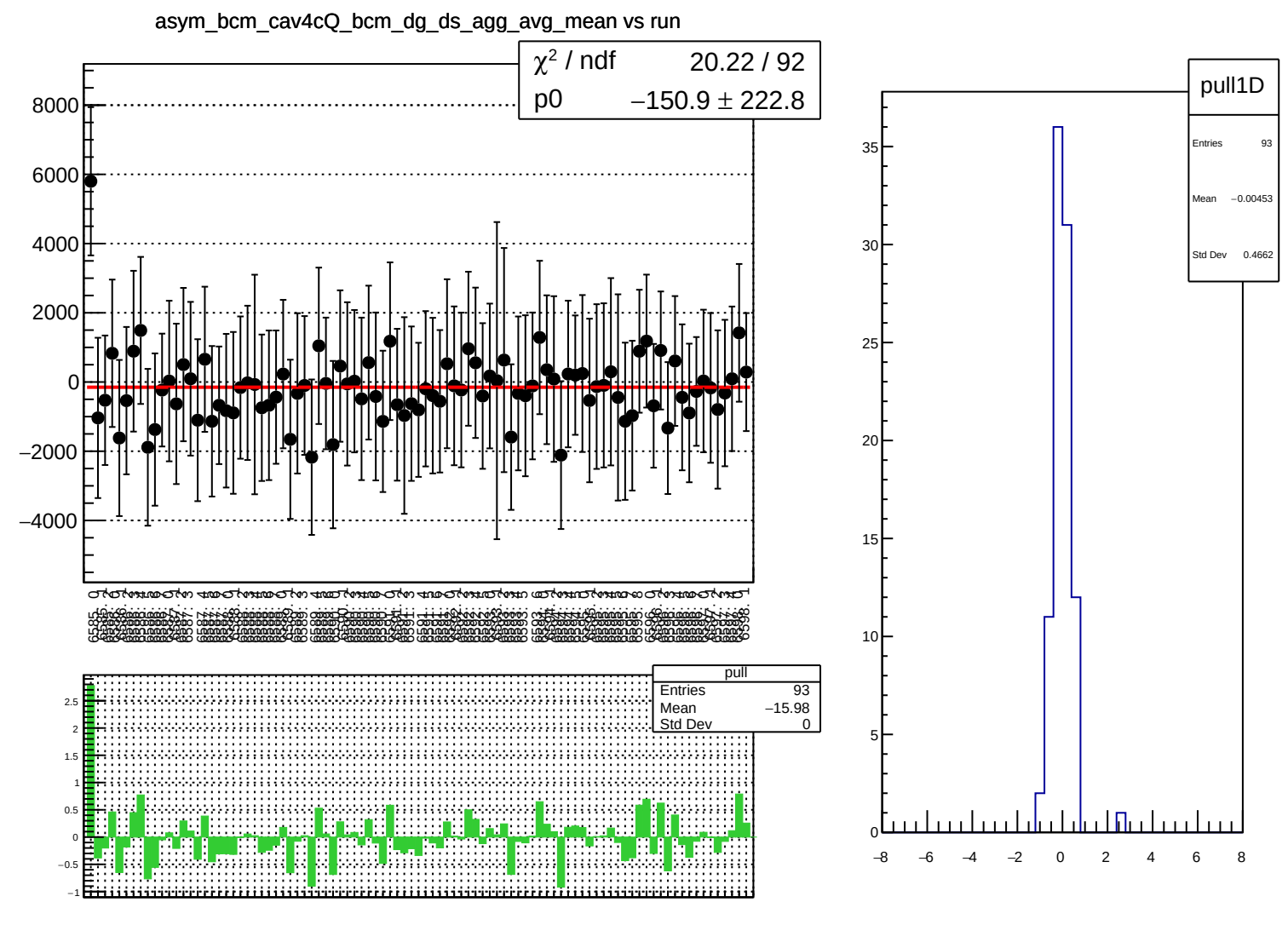

pull1D
Entries 93
Mean −0.005215
Std Dev 0.4703
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

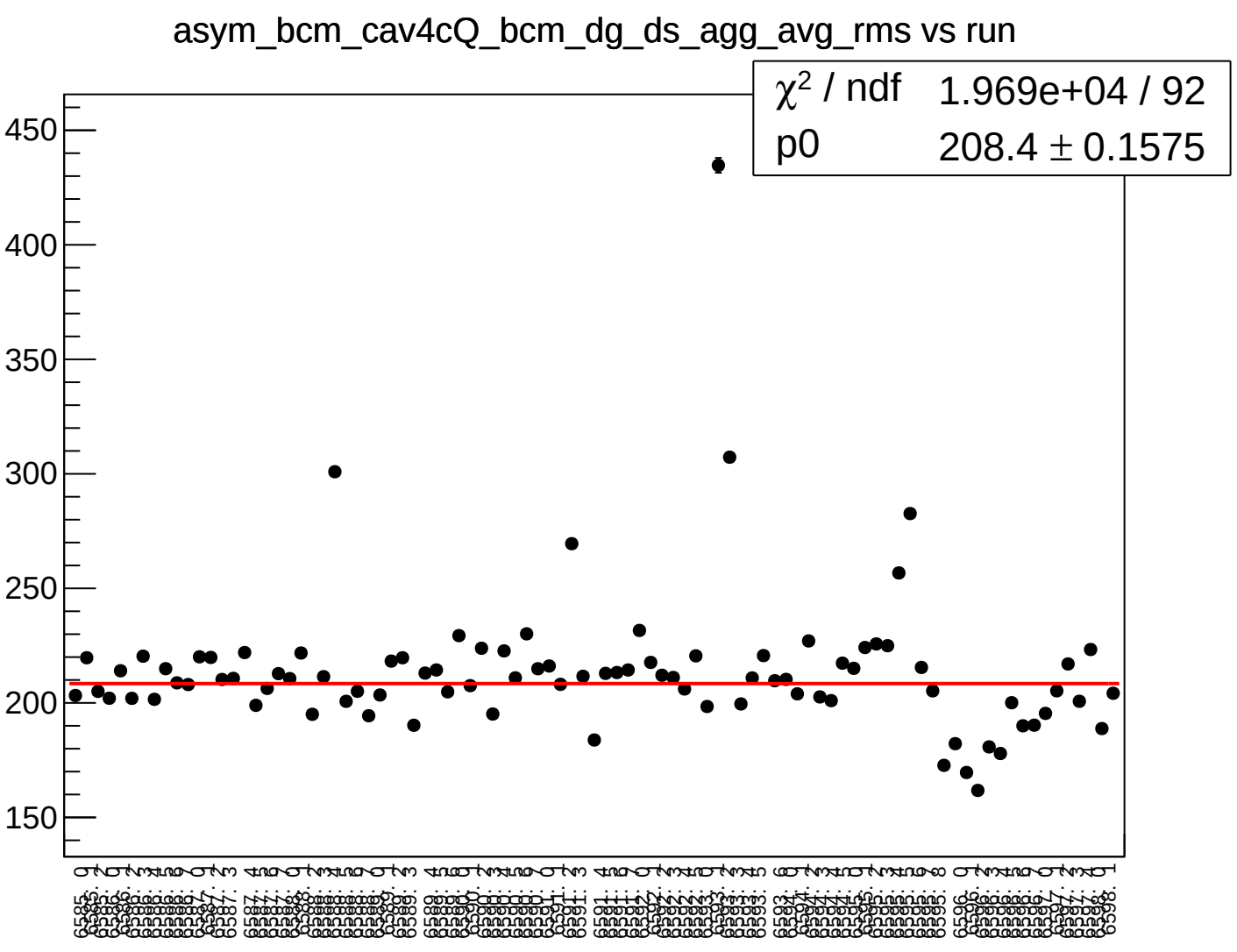

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ^2 / ndf 1.927e+04 / 92
p0 210 ± 0.1587
450
400
350
300
250
200
150

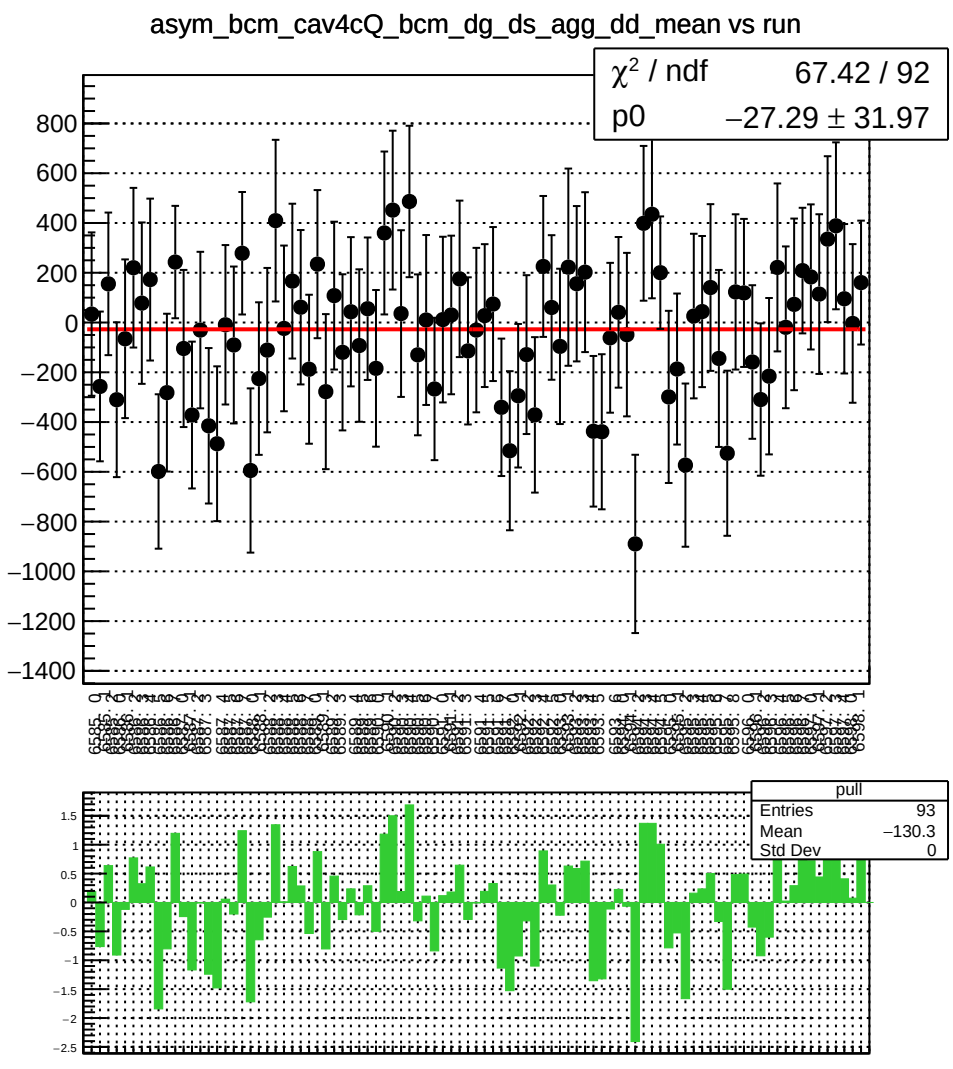

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.55 / 92
p0 −15.25 ± 35.62
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 2913
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

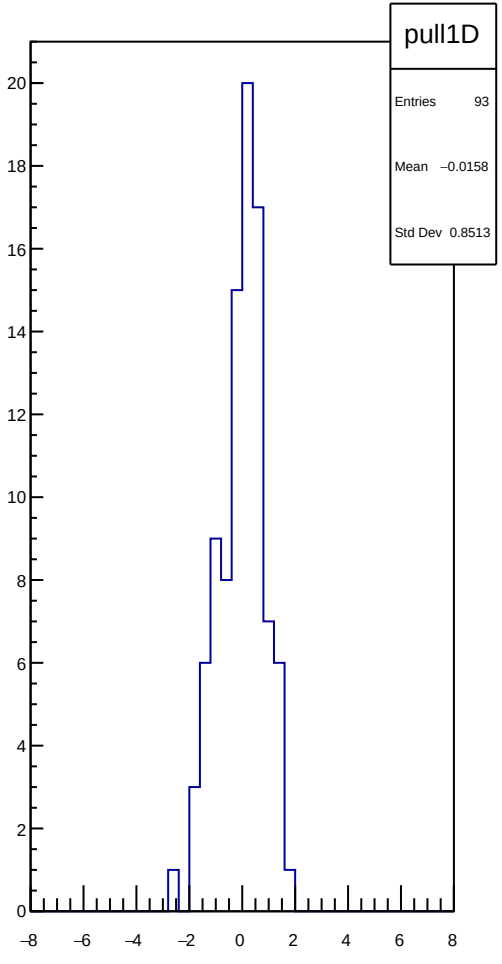

pull1D
Entries 93
Mean 0.001403
Std Dev 0.871
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

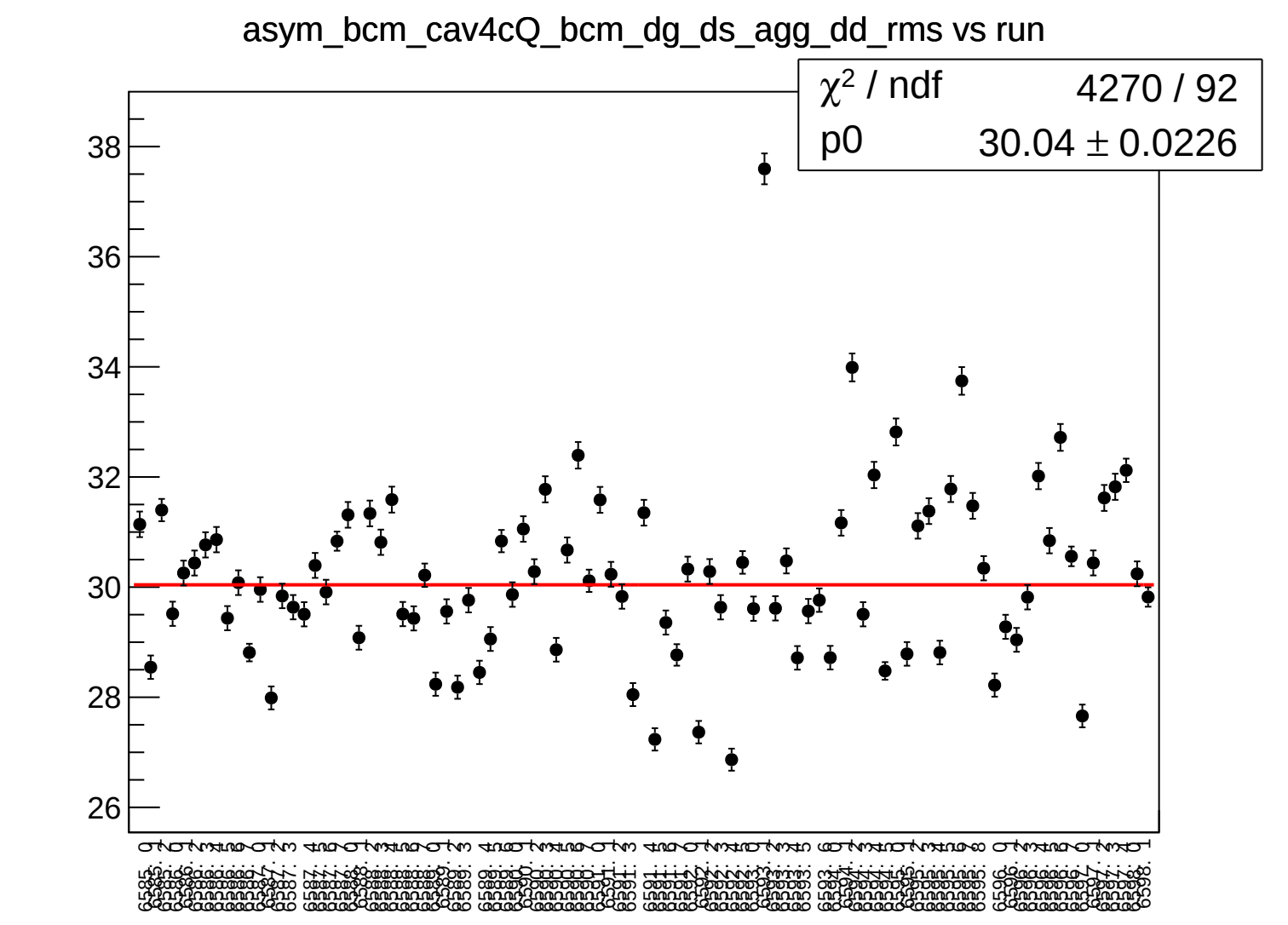

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 4249 / 92
p0 33.47 ± 0.02519
40
38
36
34
32
30

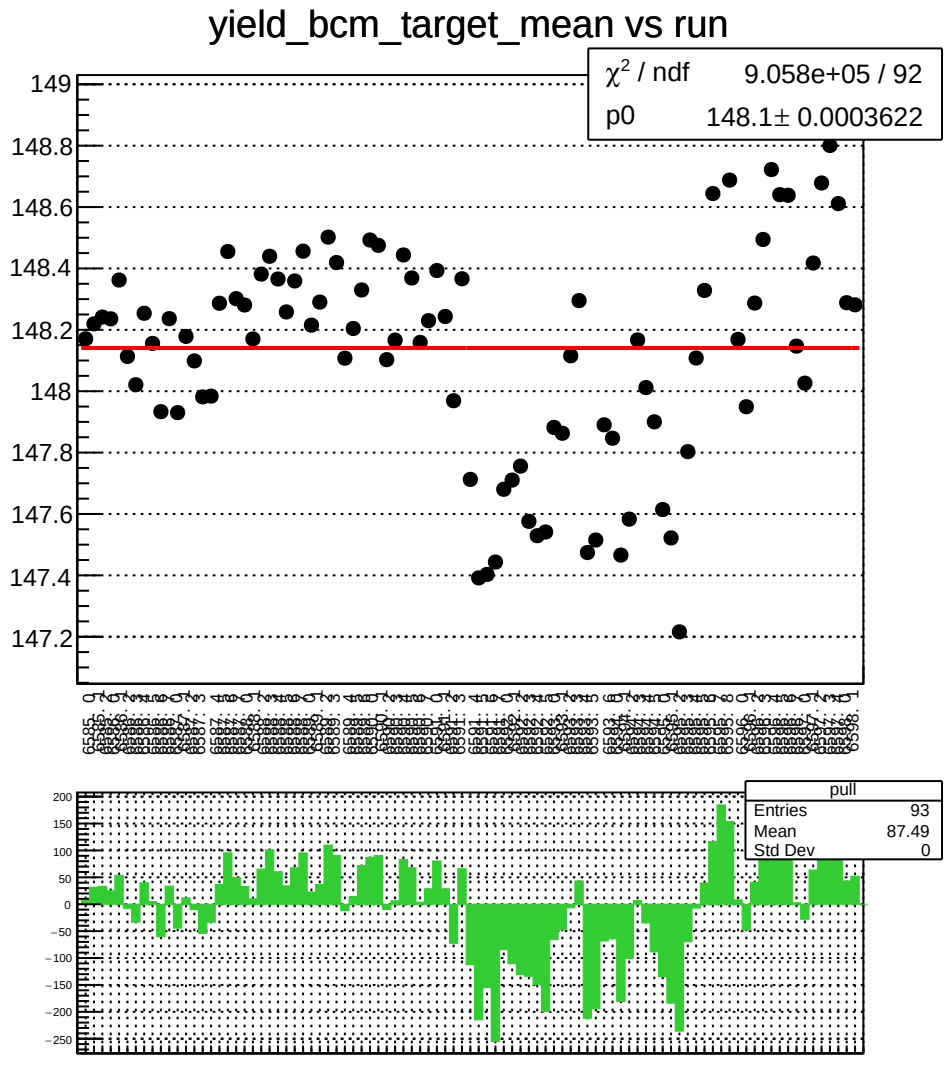

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.22 / 92
p0 −150.9 ± 222.8
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −15.98
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.00453
Std Dev 0.4662
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

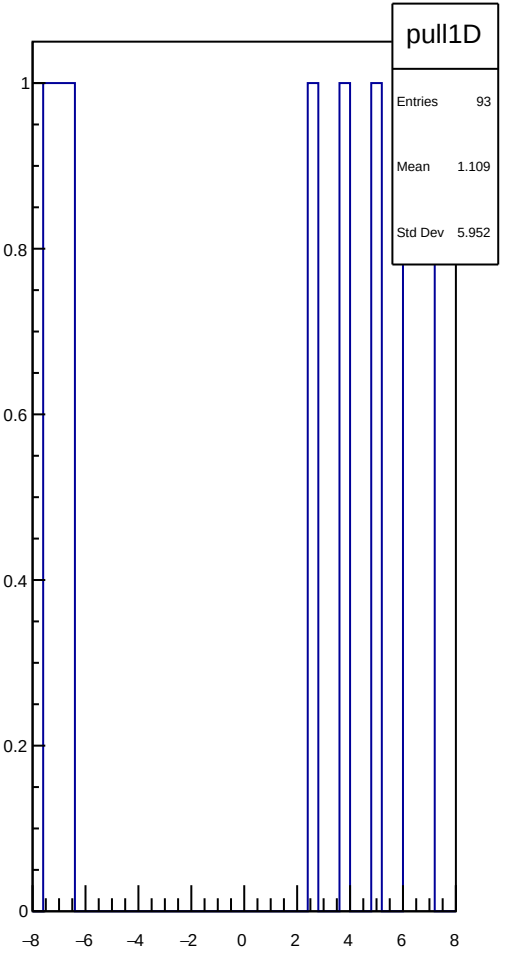

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.969e+04 / 92
p0 208.4 ± 0.1575
450
400
350
300
250
200
150

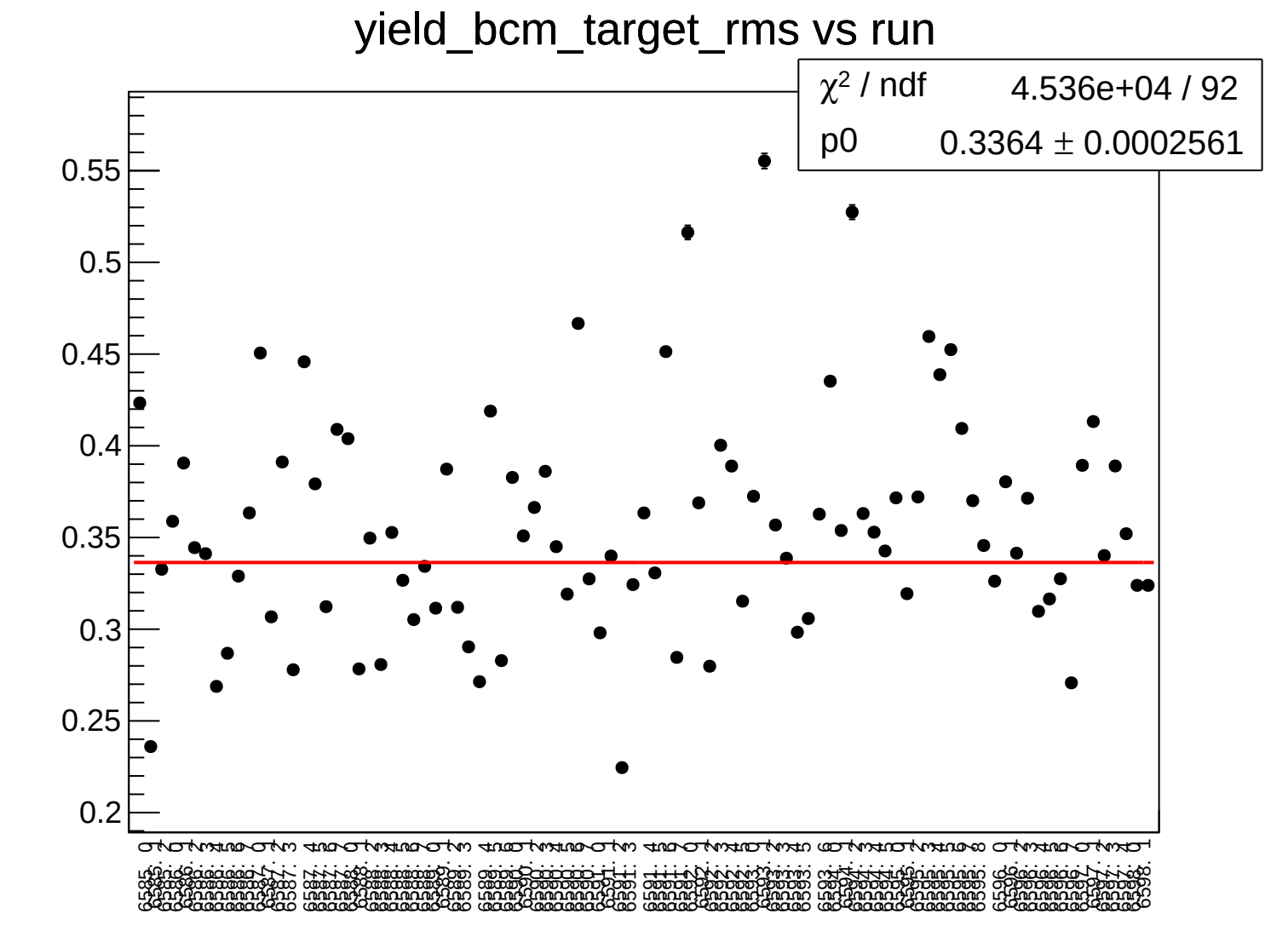

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 67.42 / 92
p0 −27.29 ± 31.97
pull
Entries 93
Mean −130.3
Std Dev 0

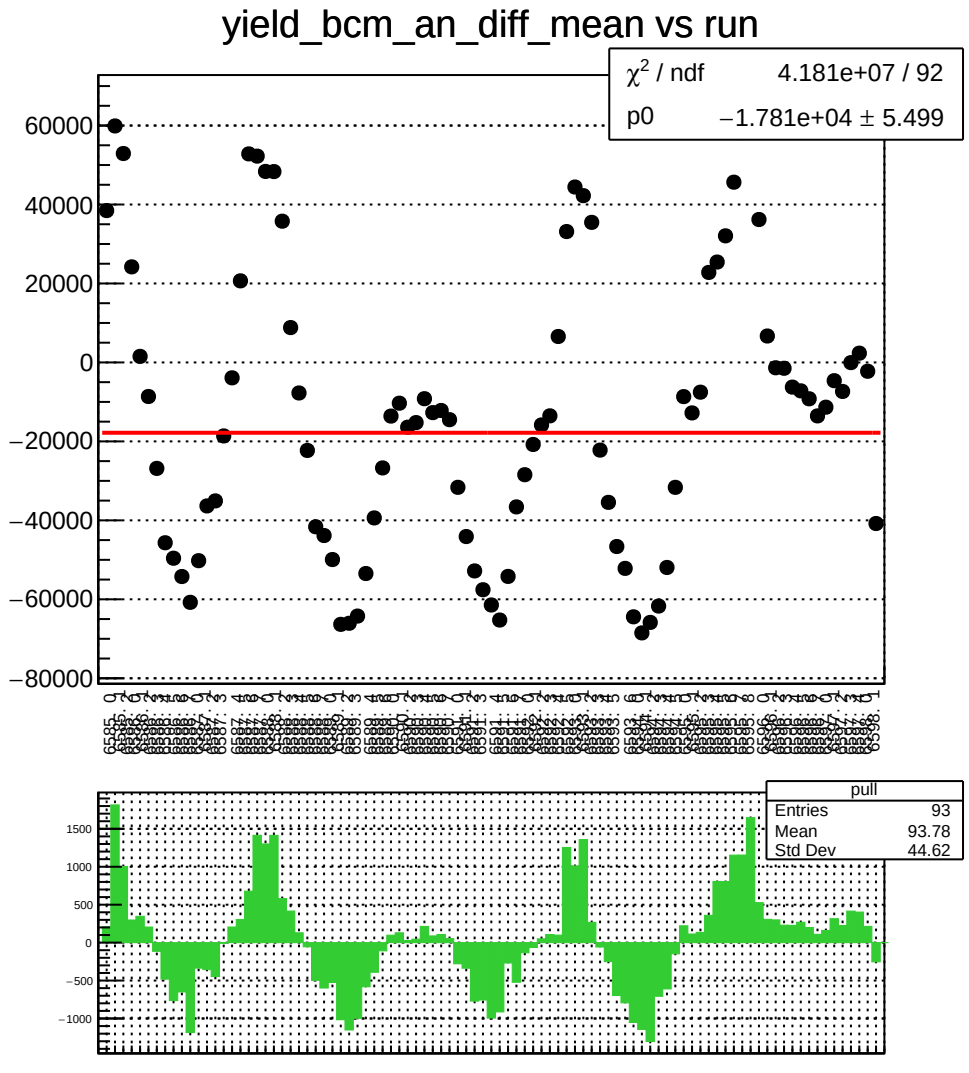

pull1D
Entries 93
Mean −0.0158
Std Dev 0.8513

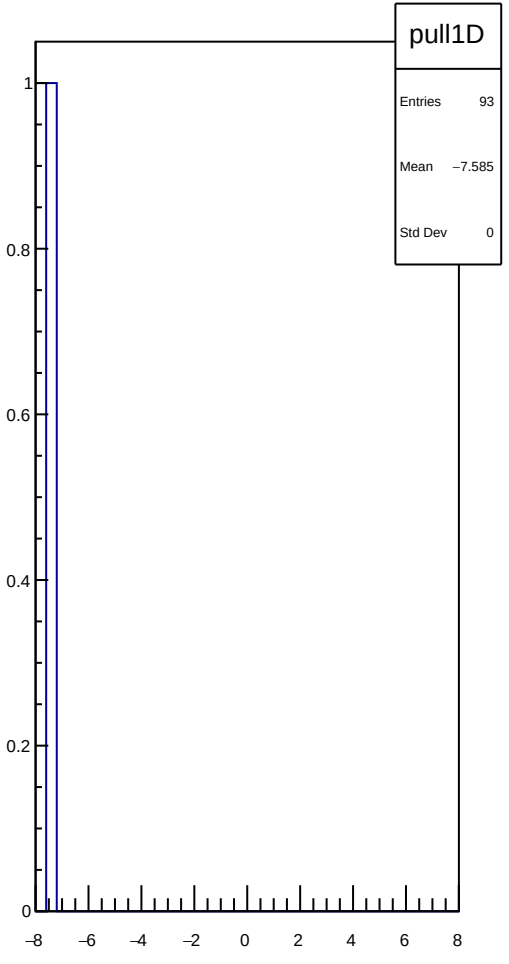

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4270 / 92
p0 30.04 ± 0.0226
38
36
34
32
30
28
26

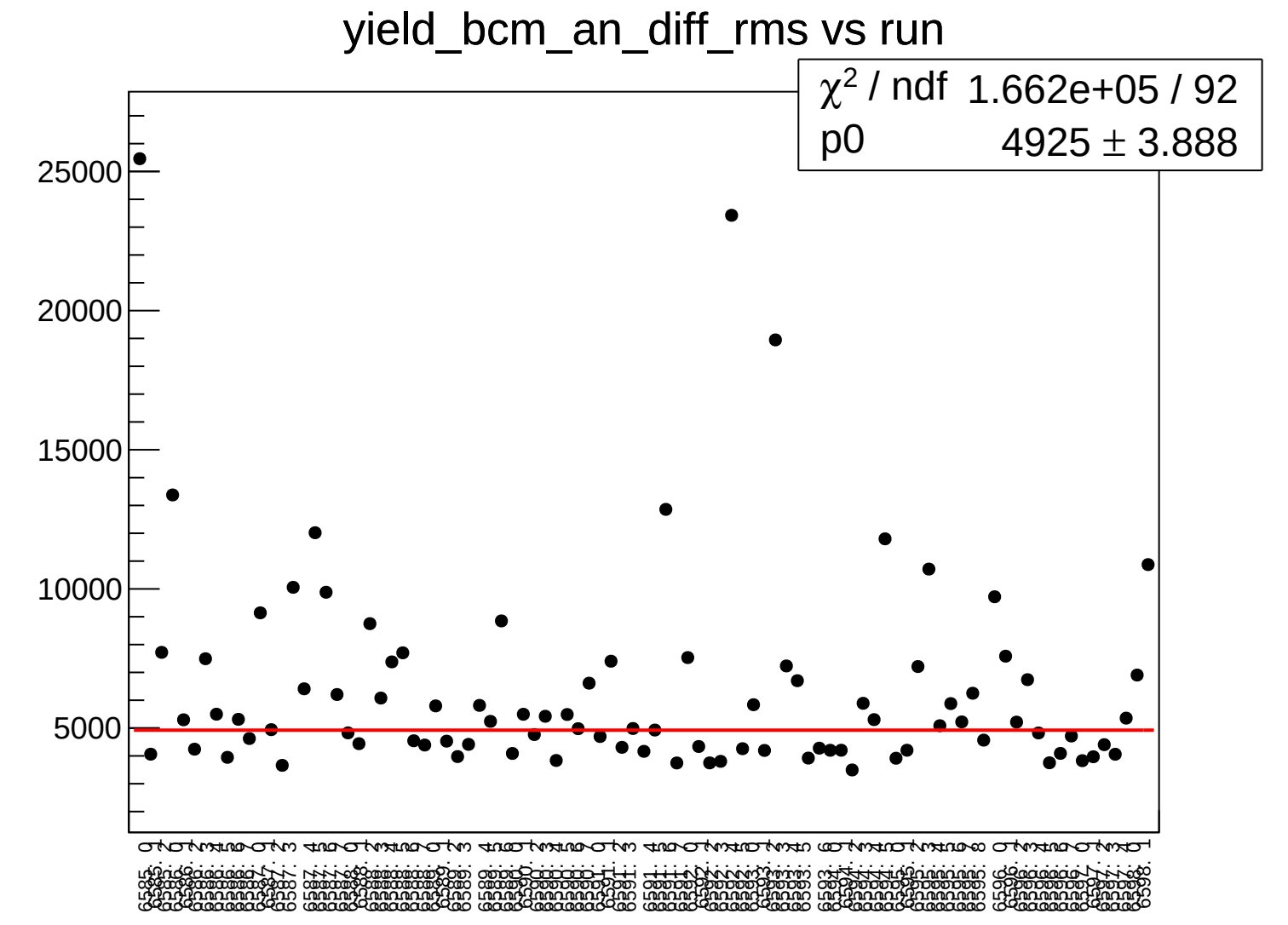

yield_bcm_target_mean vs run
χ² / ndf 9.058e+05 / 92
p0 148.1± 0.0003622
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 93
Mean 87.49
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

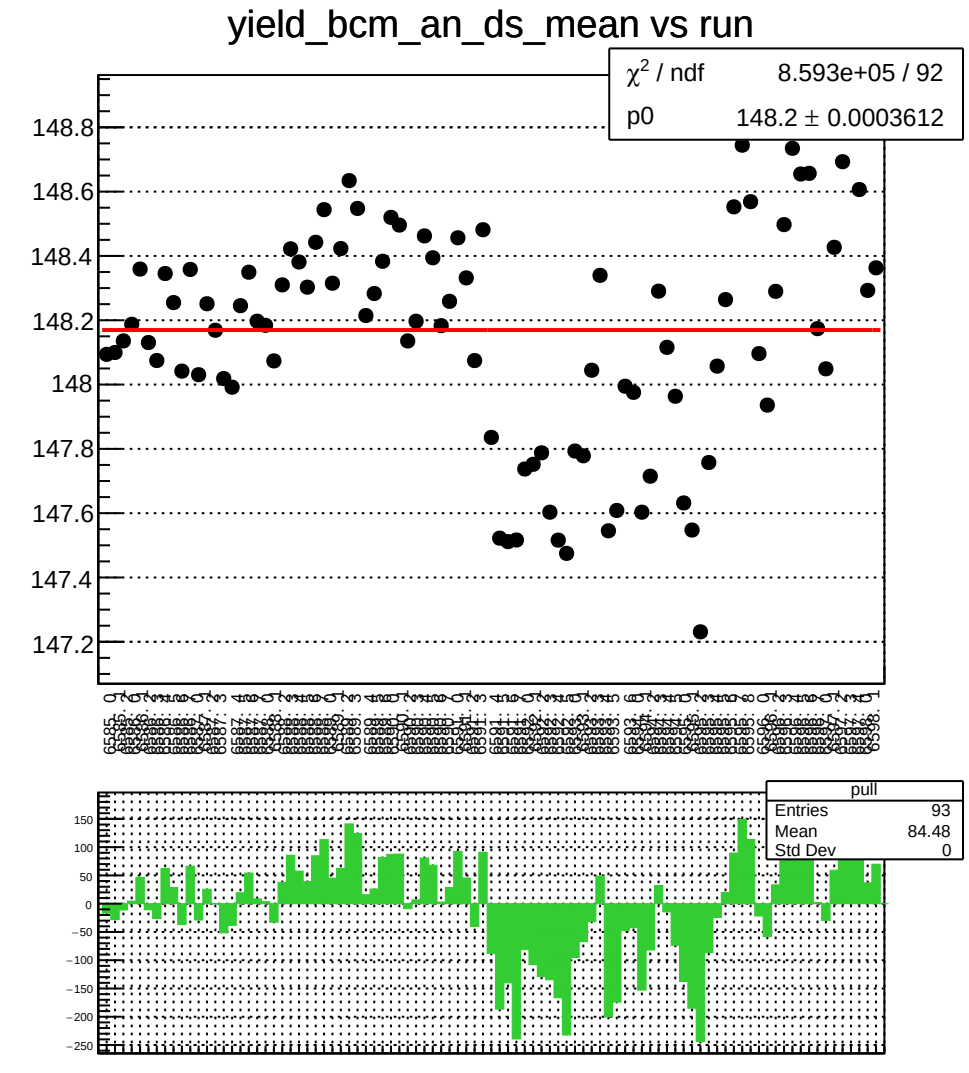

pull1D
Entries 93
Mean 1.109
Std Dev 5.952
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

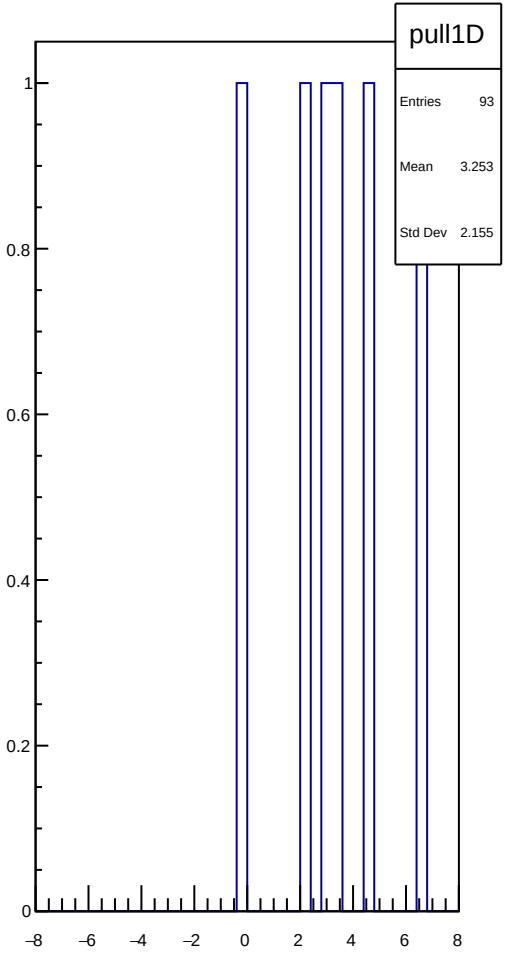

yield_bcm_target_rms vs run
χ² / ndf 4.536e+04 / 92
p0 0.3364 ± 0.0002561
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

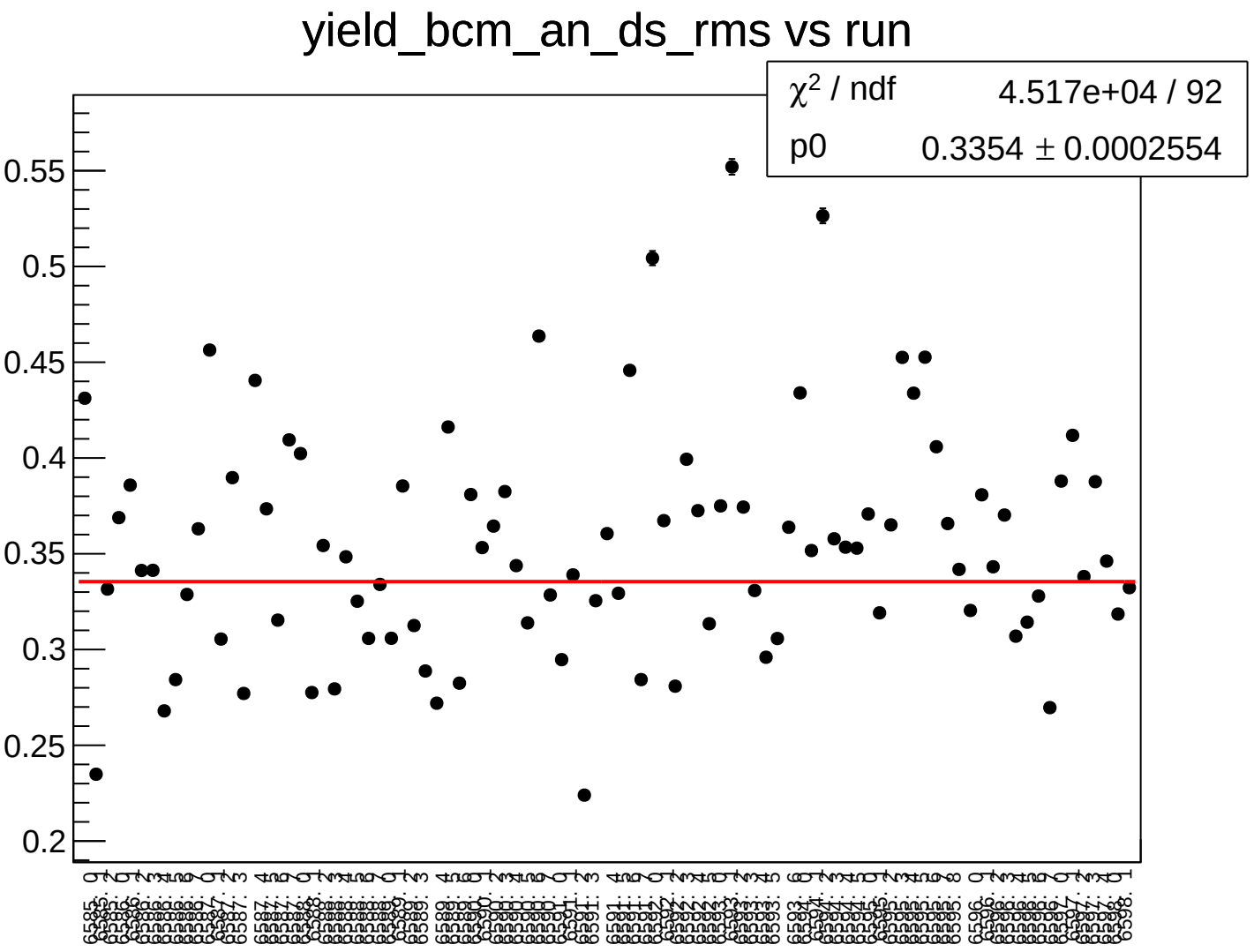

yield_bcm_an_diff_mean vs run
χ² / ndf 4.181e+07 / 92
p0 −1.781e+04 ± 5.499
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 93.78
Std Dev 44.62
1500
1000
500
0
−500
−1000

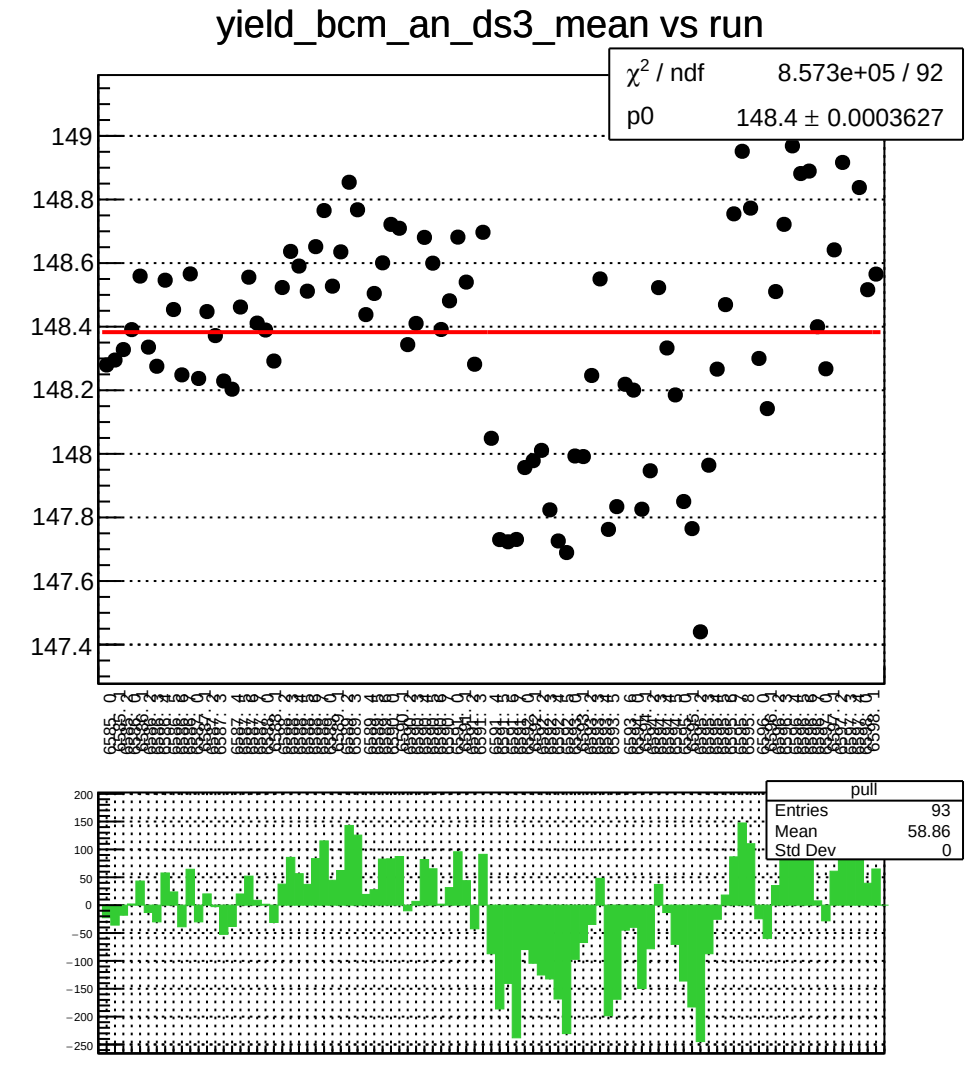

pull1D
Entries 93
Mean −7.585
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

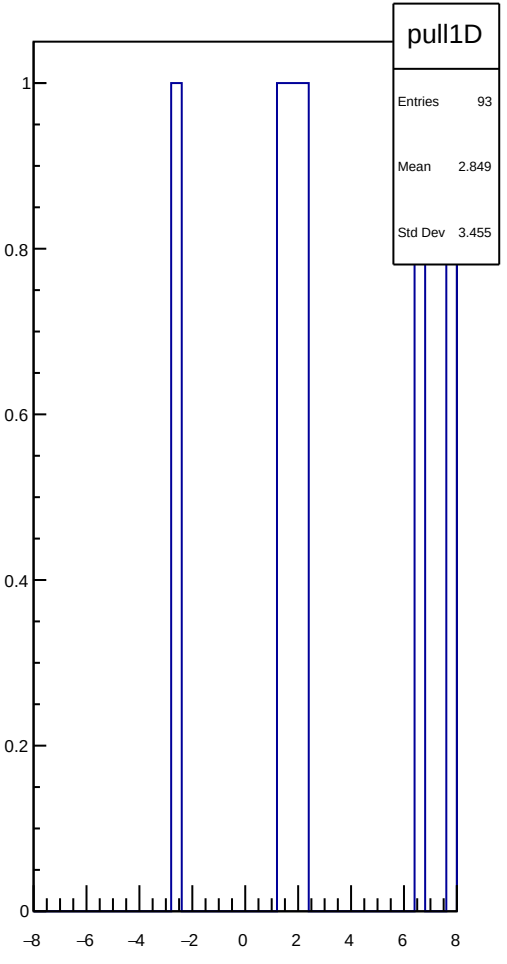

yield_bcm_an_diff_rms vs run
χ² / ndf 1.662e+05 / 92
p0 4925 ± 3.888
25000
20000
15000
10000
5000

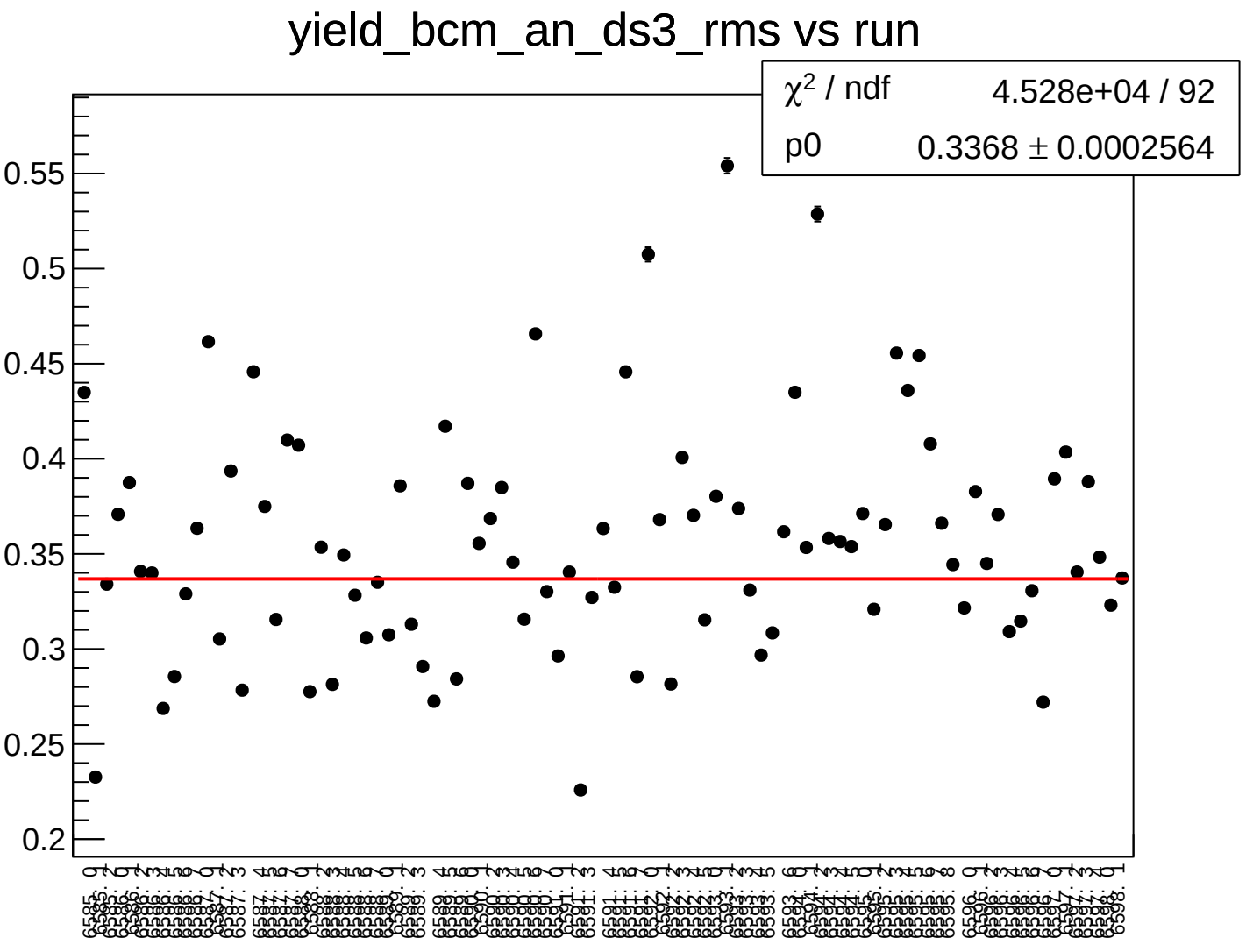

yield_bcm_an_ds_mean vs run
χ² / ndf 8.593e+05 / 92
p0 148.2 ± 0.0003612
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 93
Mean 84.48
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

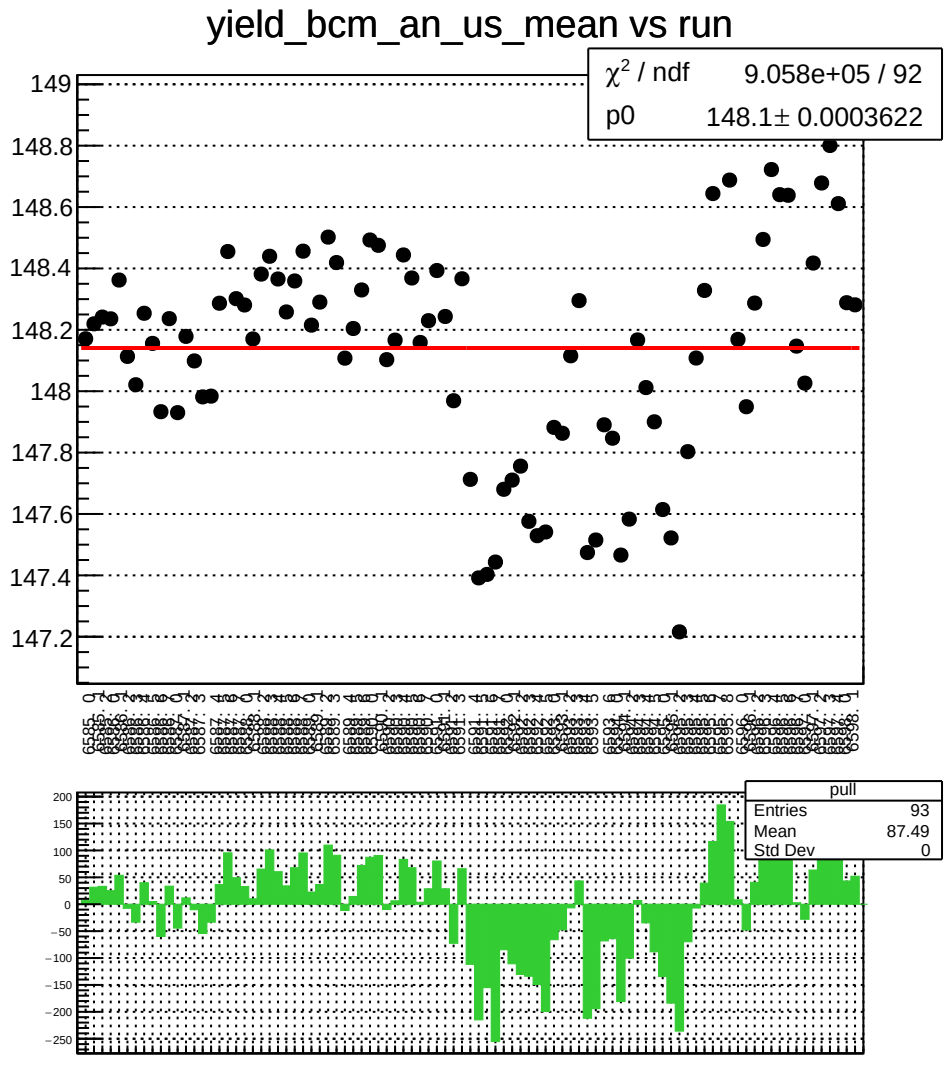

pull1D
Entries 93
Mean 3.253
Std Dev 2.155
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

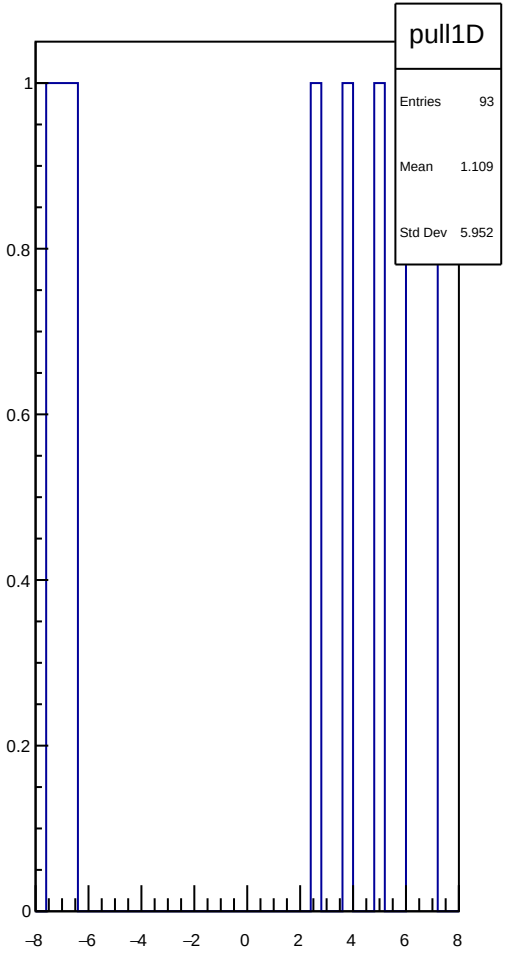

yield_bcm_an_ds_rms vs run
χ² / ndf 4.517e+04 / 92
p0 0.3354 ± 0.0002554
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

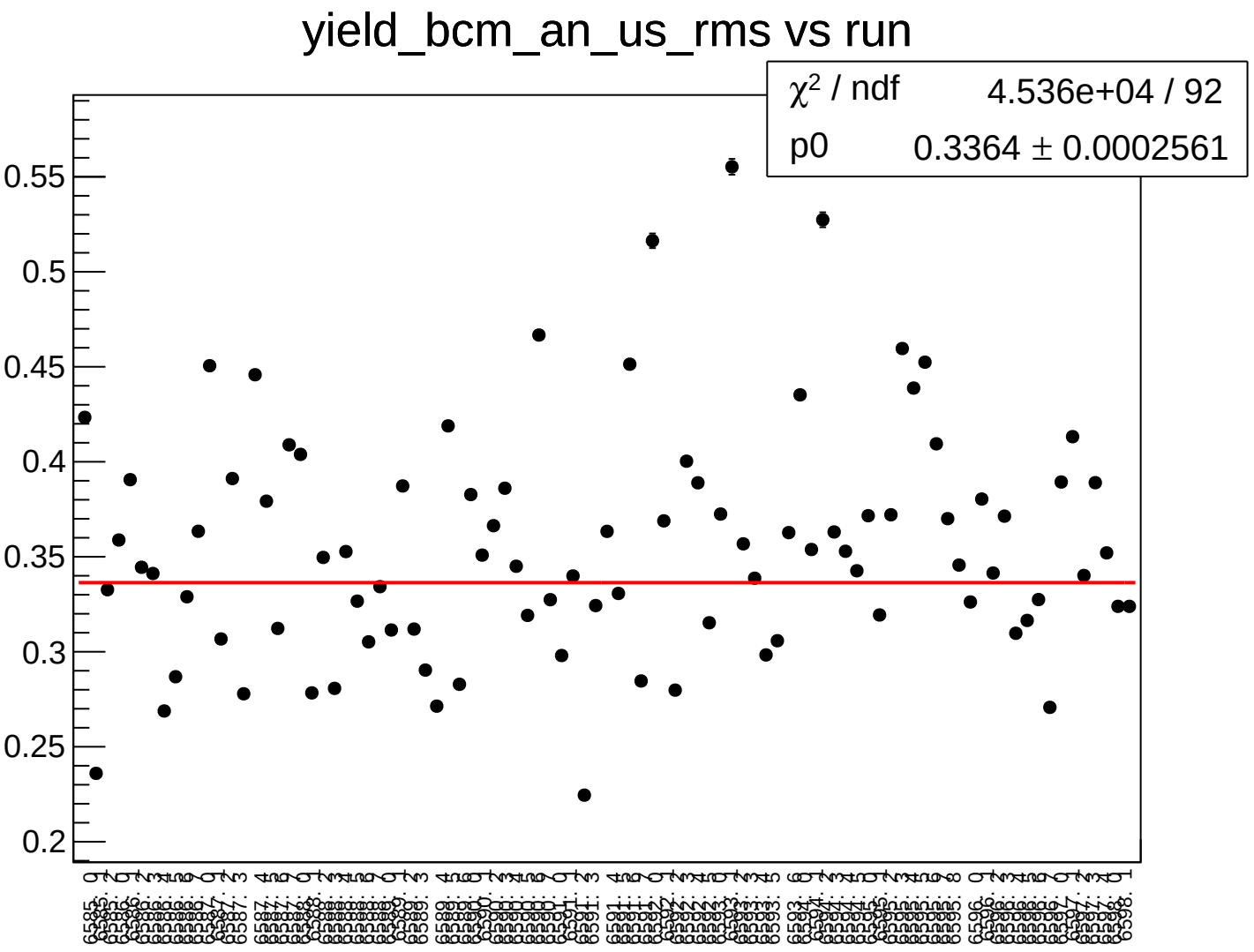

yield_bcm_an_ds3_mean vs run
χ² / ndf 8.573e+05 / 92
p0 148.4 ± 0.0003627
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 93
Mean 58.86
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

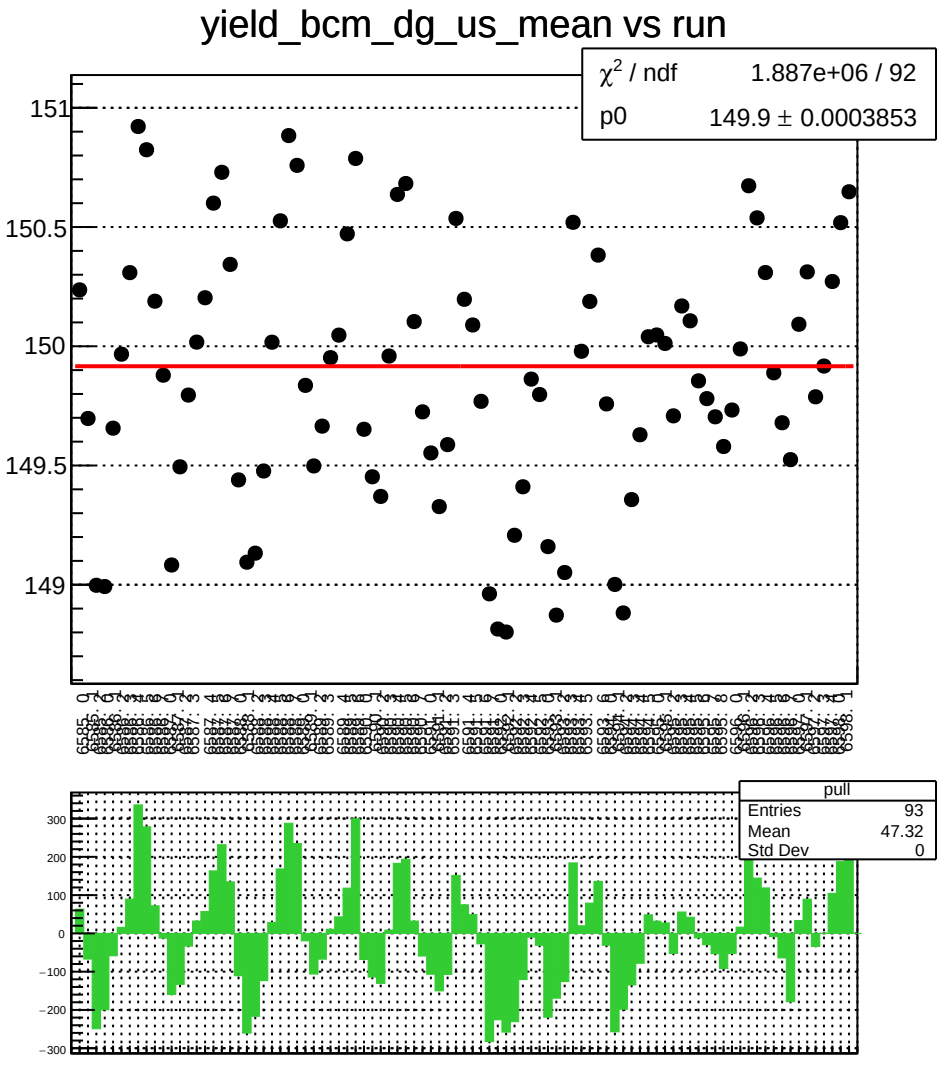

pull1D
Entries 93
Mean 2.849
Std Dev 3.455
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

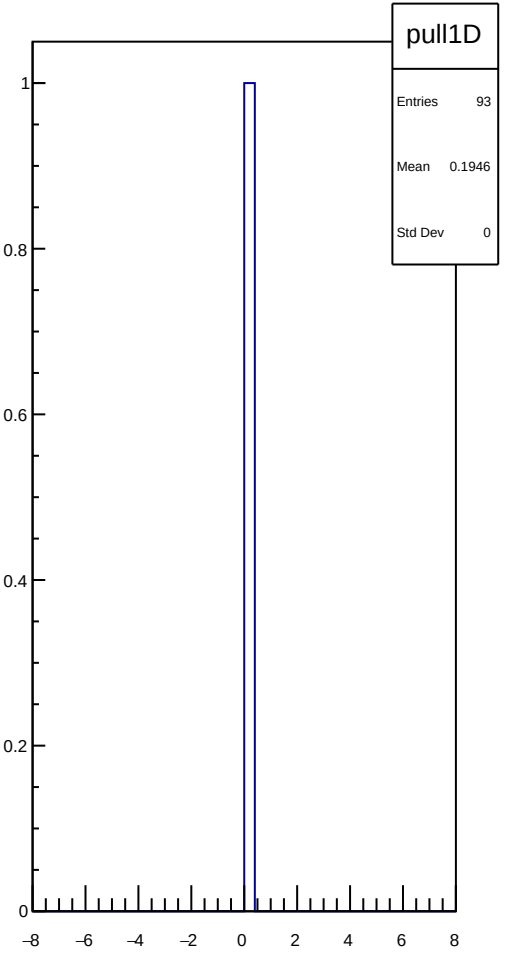

yield_bcm_an_ds3_rms vs run
χ² / ndf 4.528e+04 / 92
p0 0.3368 ± 0.0002564
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

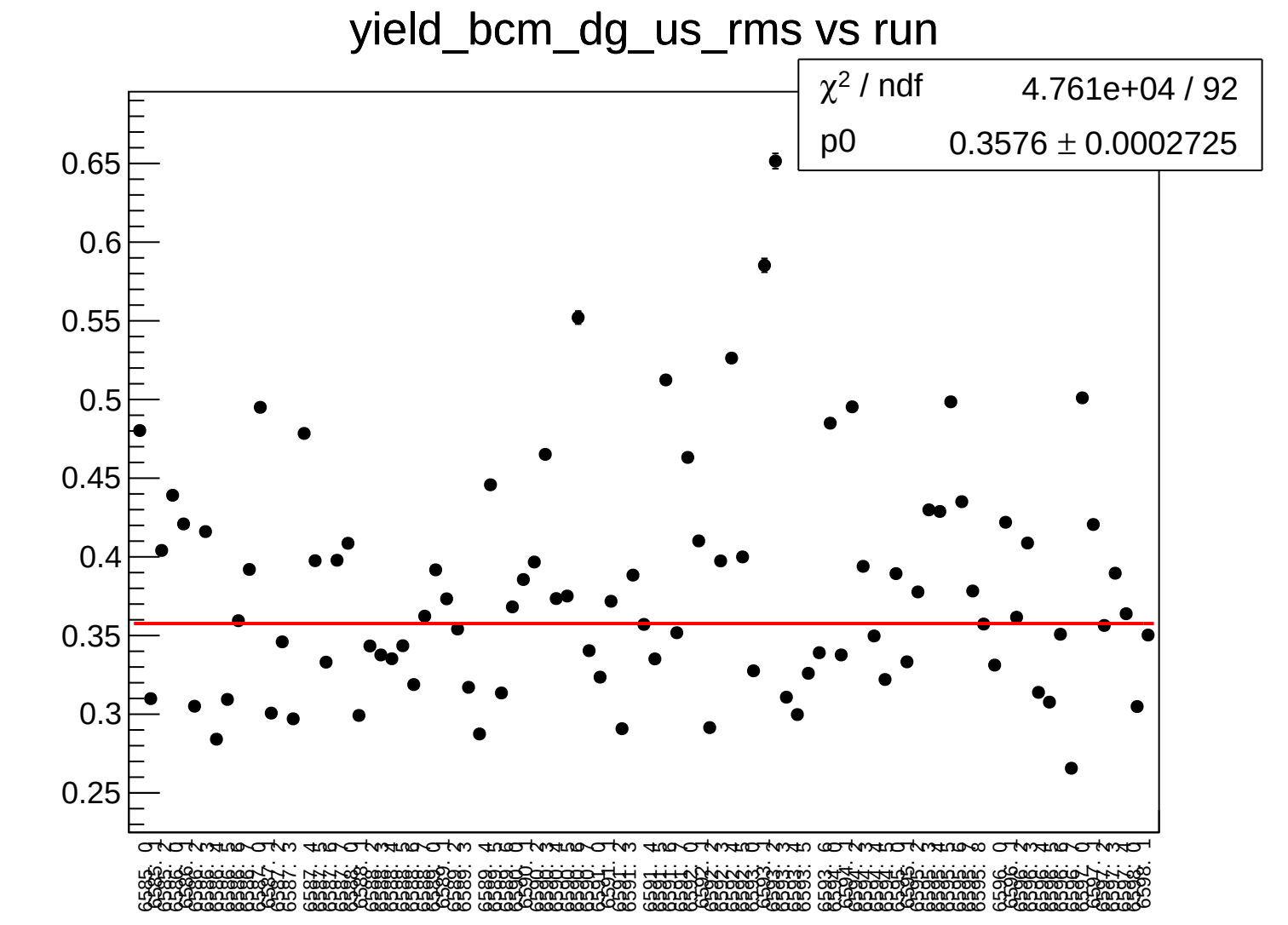

yield_bcm_an_us_mean vs run
χ² / ndf 9.058e+05 / 92
p0 148.1± 0.0003622
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 93
Mean 87.49
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

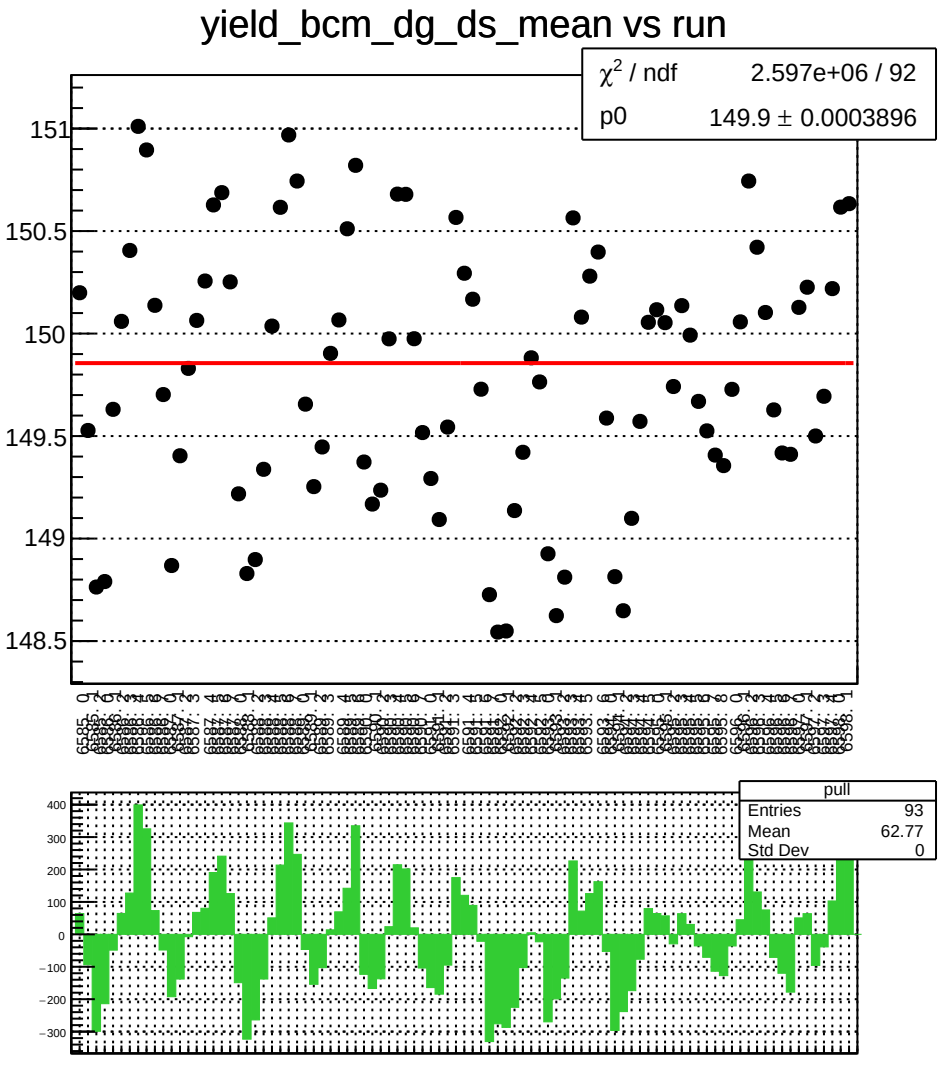

pull1D
Entries 93
Mean 1.109
Std Dev 5.952
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

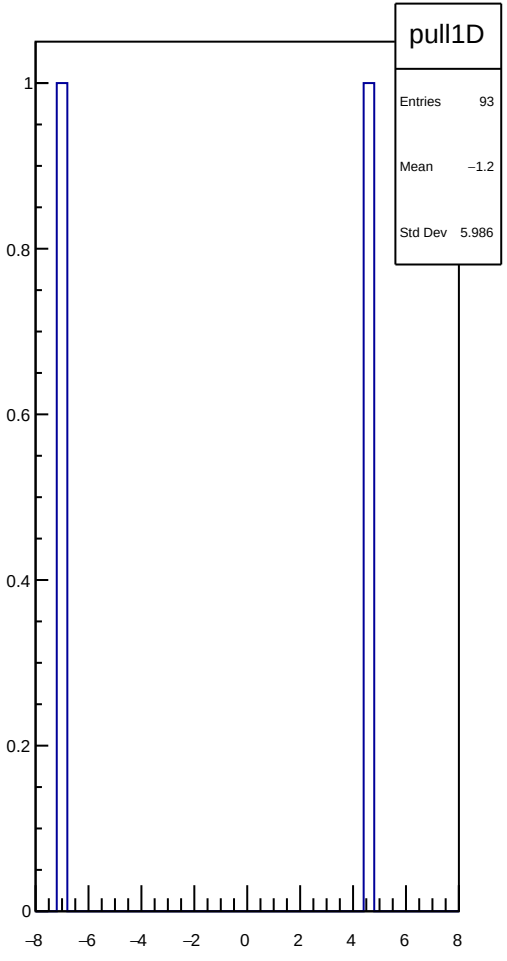

yield_bcm_an_us_rms vs run
χ² / ndf 4.536e+04 / 92
p0 0.3364 ± 0.0002561
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

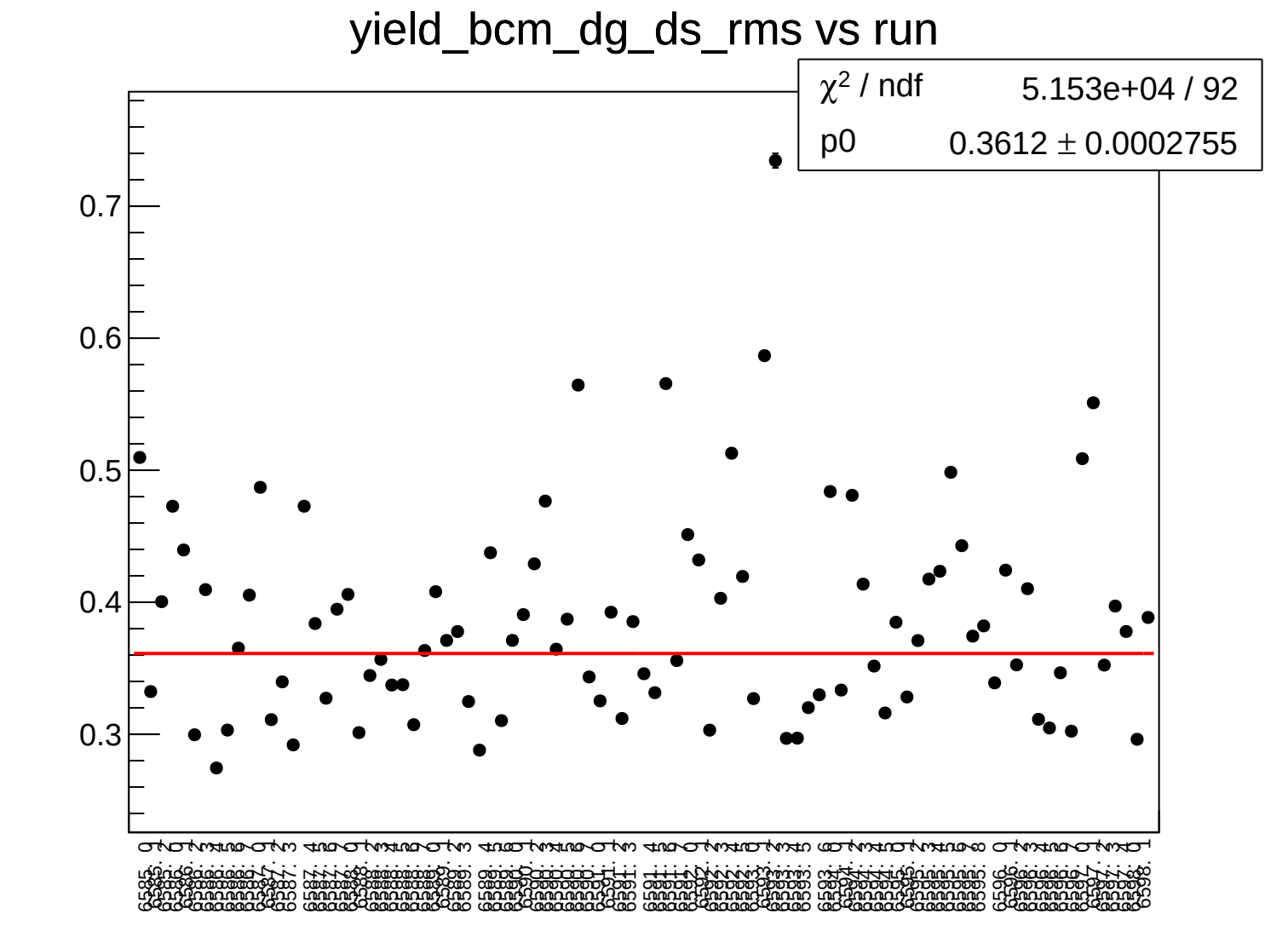

yield_bcm_dg_us_mean vs run
χ² / ndf 1.887e+06 / 92
p0 149.9 ± 0.0003853
151
150.5
150
149.5
149
pull
Entries 93
Mean 47.32
Std Dev 0
300
200
100
0
−100
−200
−300

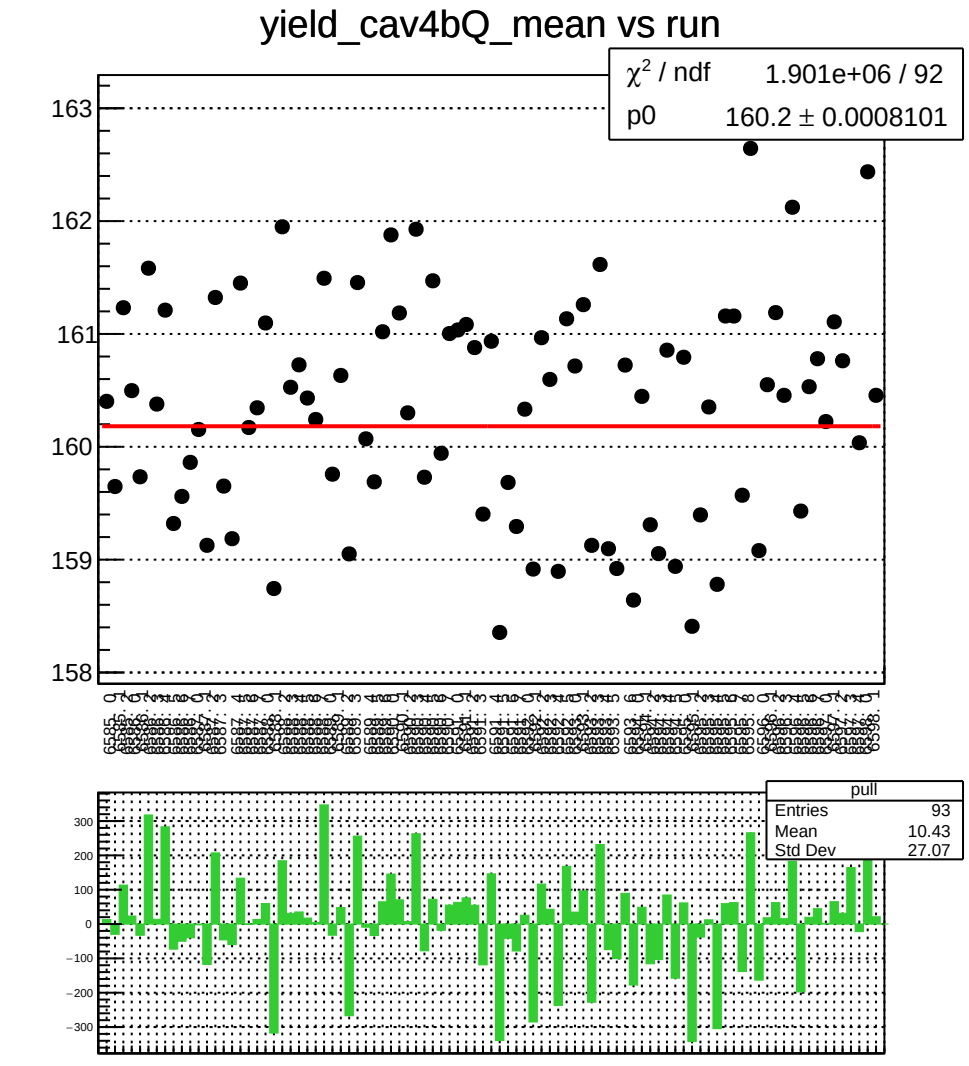

pull1D
Entries 93
Mean 0.1946
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

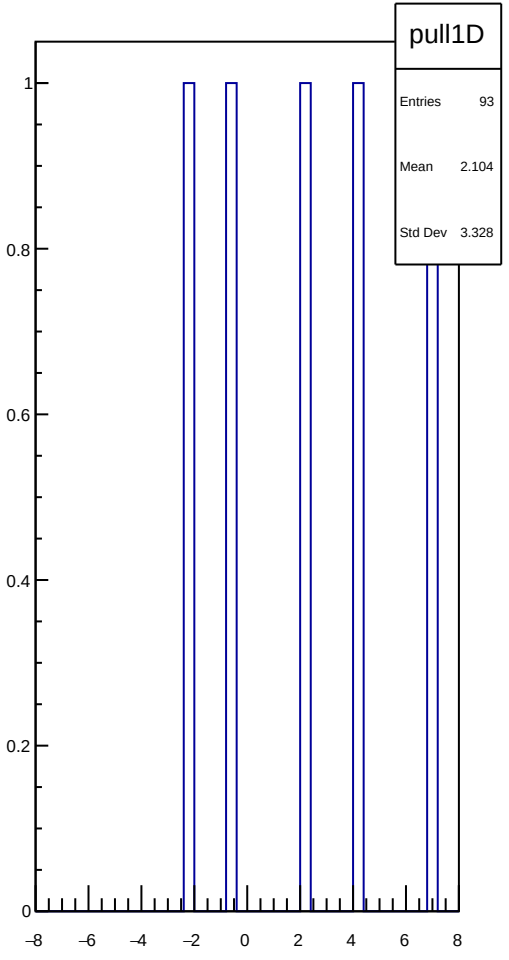

yield_bcm_dg_us_rms vs run
χ² / ndf 4.761e+04 / 92
p0 0.3576 ± 0.0002725
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25


yield_bcm_dg_ds_mean vs run
χ² / ndf 2.597e+06 / 92
p0 149.9 ± 0.0003896
151
150.5
150
149.5
149
148.5
pull
Entries 93
Mean 62.77
Std Dev 0
400
300
200
100
0
−100
−200
−300

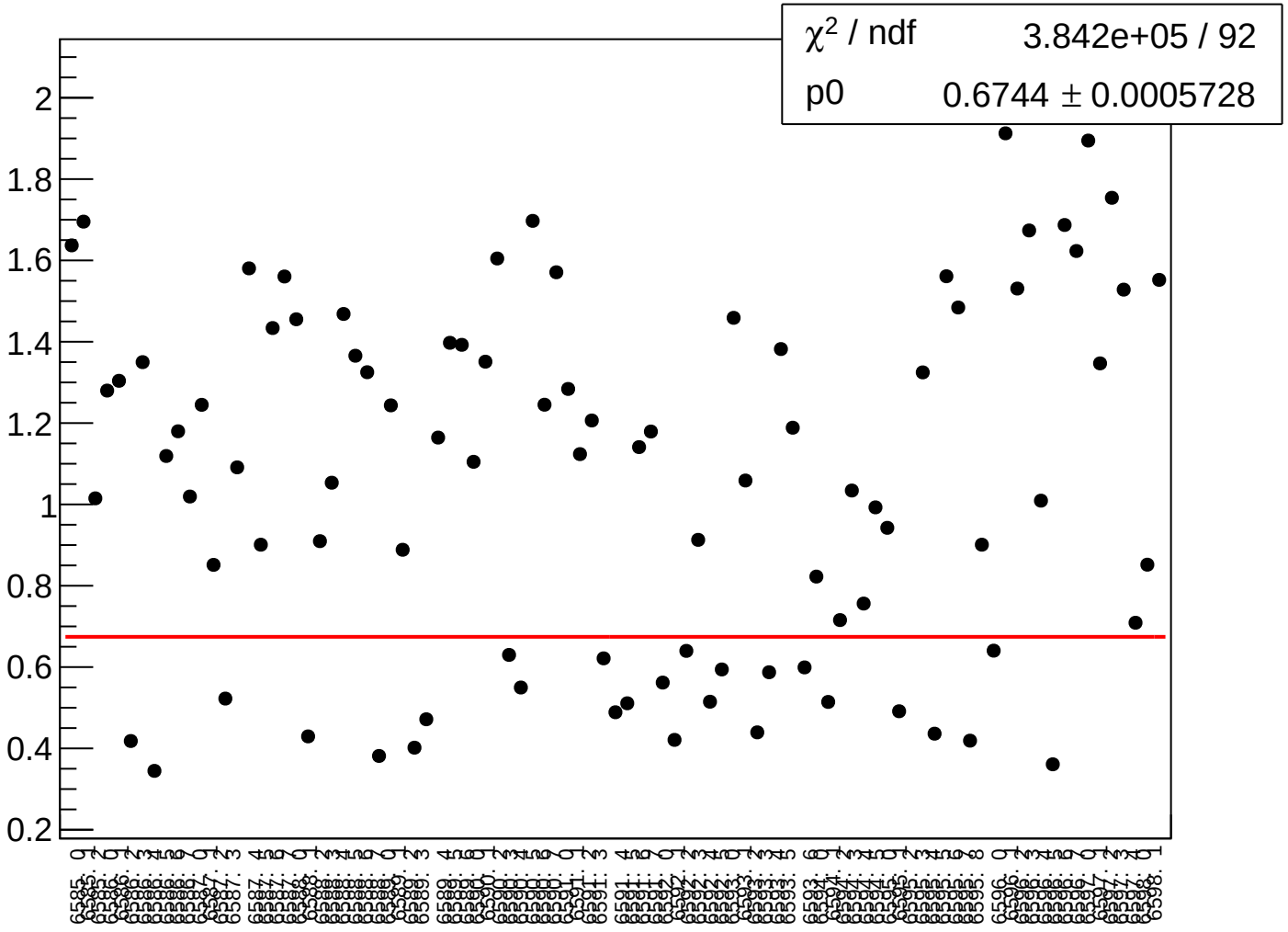

pull1D
Entries 93
Mean −1.2
Std Dev 5.986
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

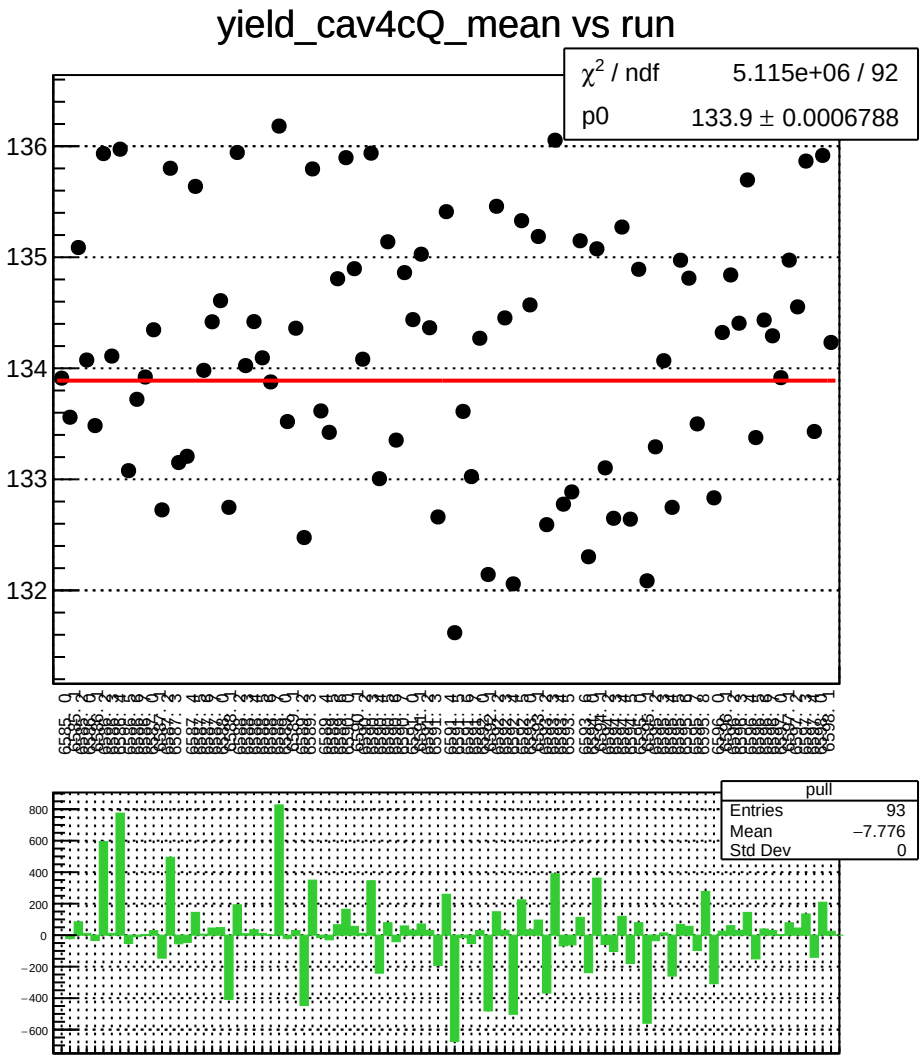

yield_bcm_dg_ds_rms vs run
χ² / ndf 5.153e+04 / 92
p0 0.3612 ± 0.0002755
0.7
0.6
0.5
0.4
0.3

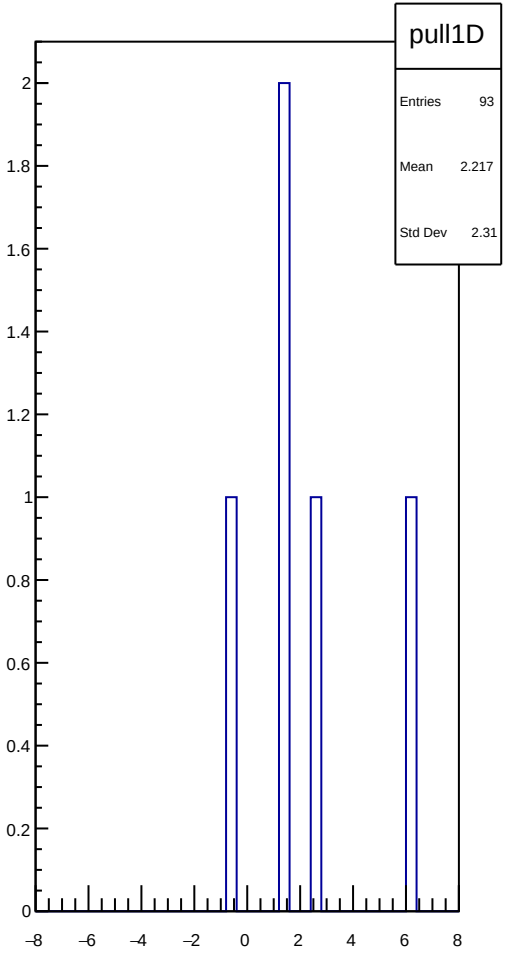

yield_cav4bQ_mean vs run
χ² / ndf 1.901e+06 / 92
p0 160.2 ± 0.0008101
163
162
161
160
159
158
pull
Entries 93
Mean 10.43
Std Dev 27.07
300
200
100
0
−100
−200
−300

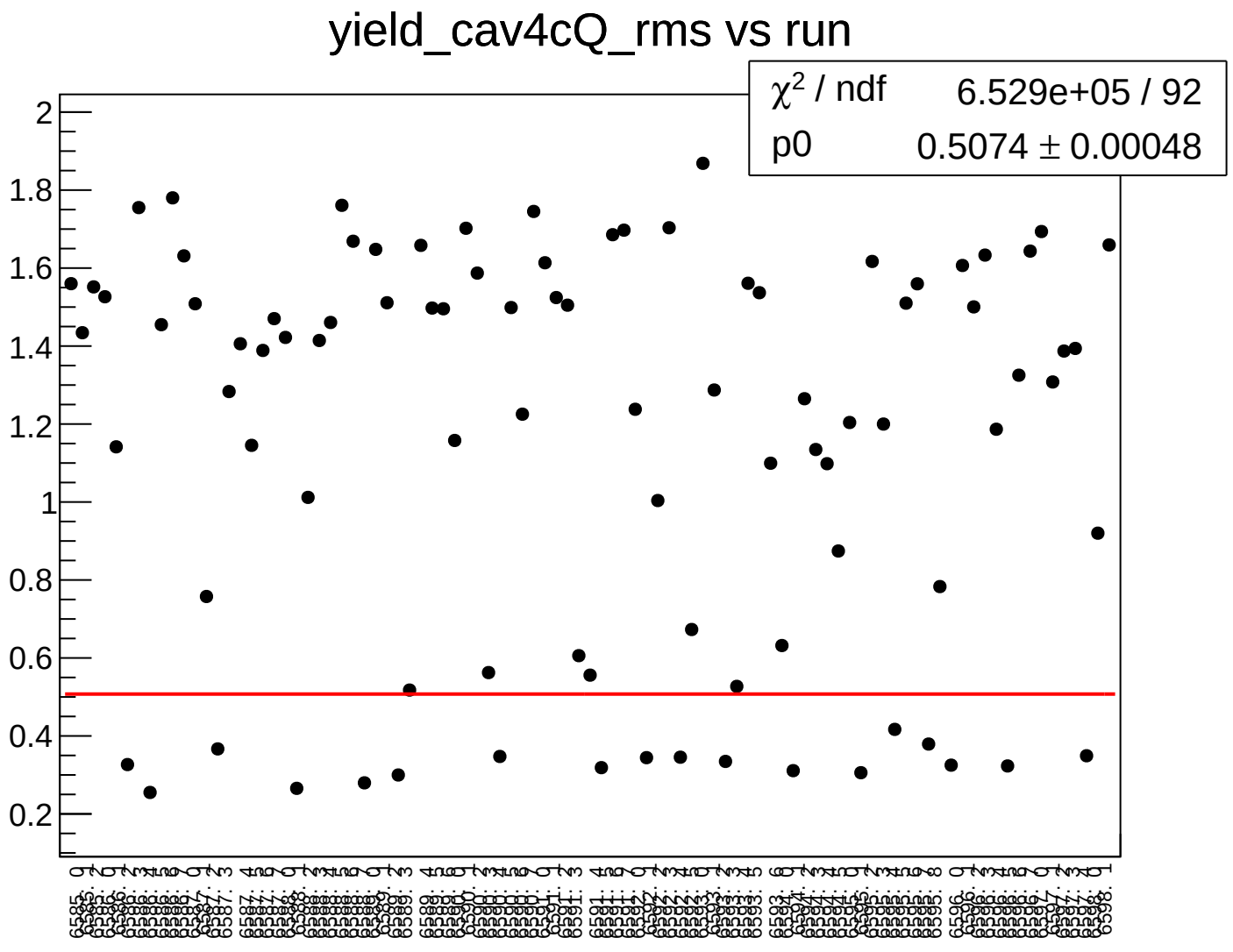

pull1D
Entries 93
Mean 2.104
Std Dev 3.328
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

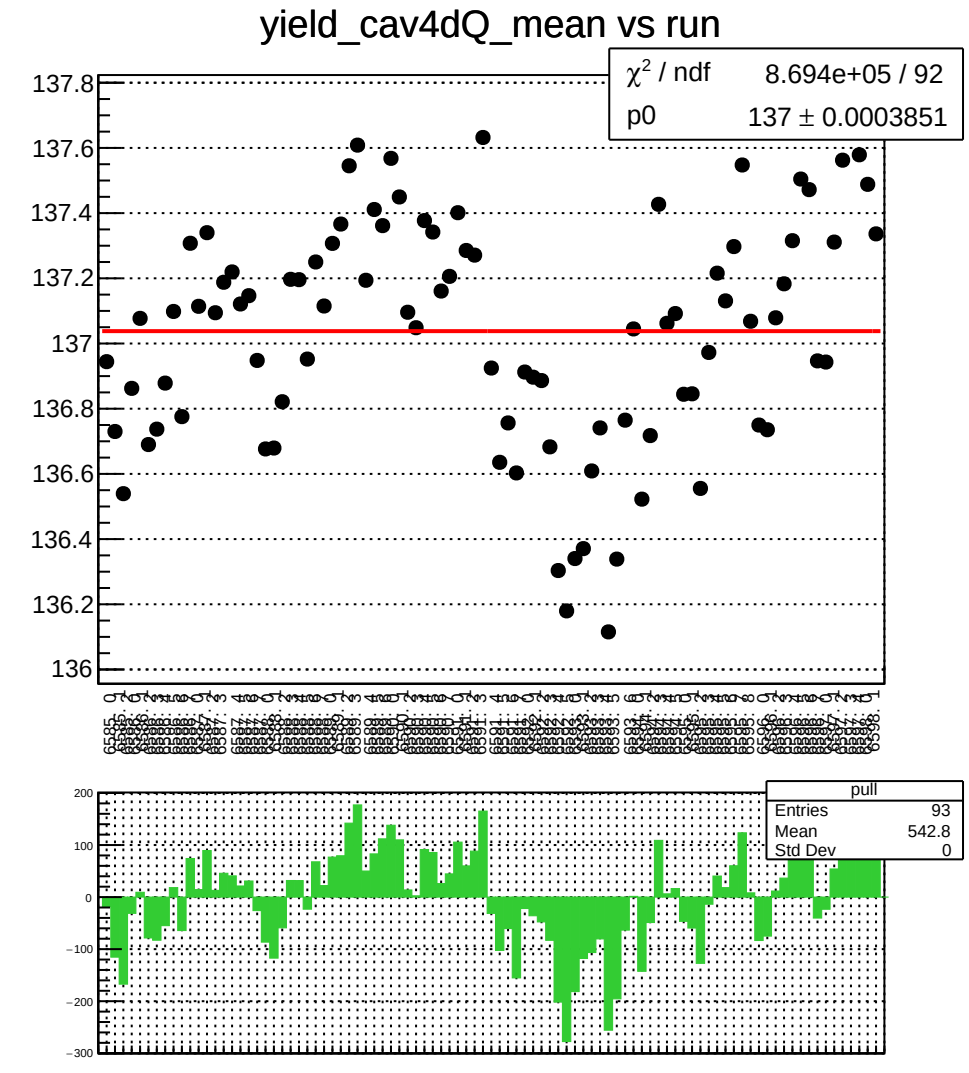
yield_cav4bQ_rms vs run

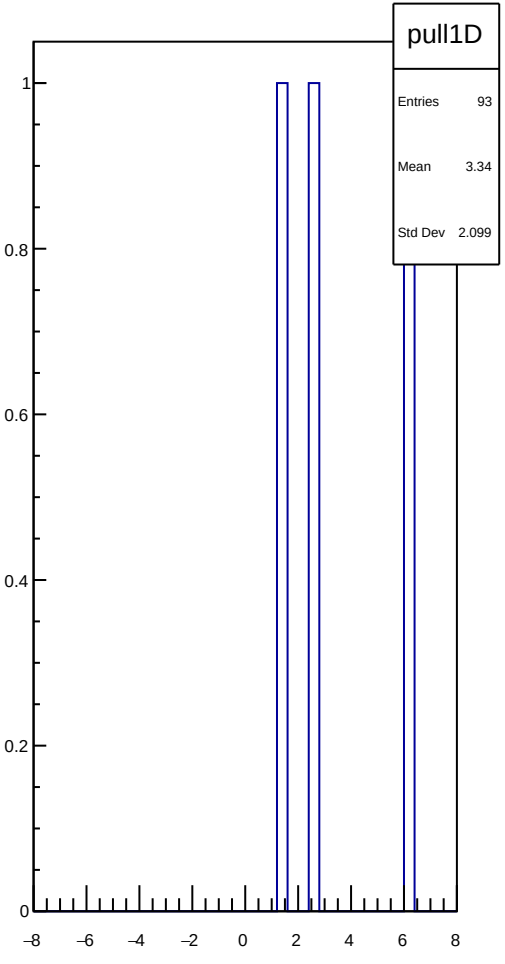


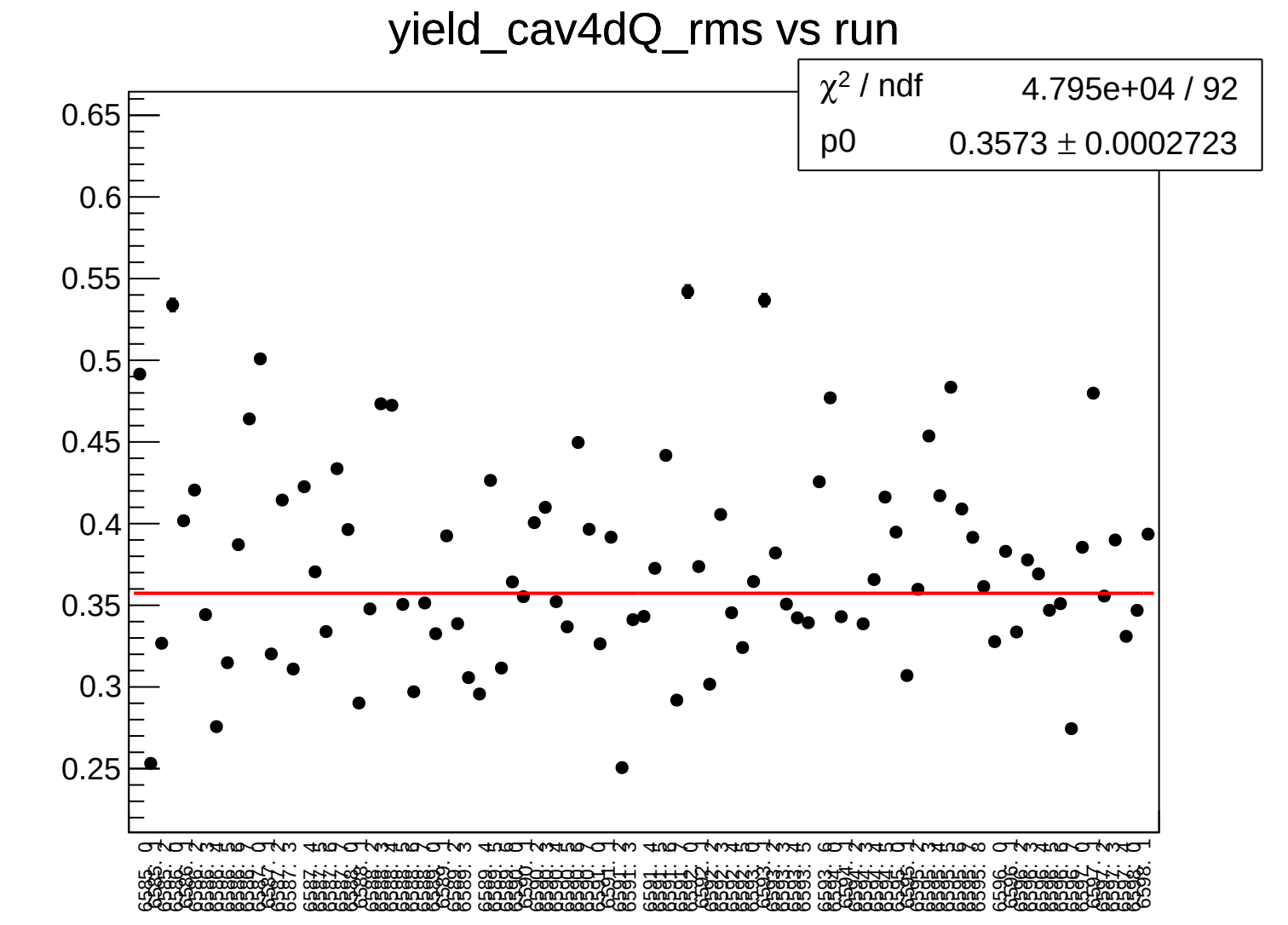

yield_cav4cQ_mean vs run
χ² / ndf 5.115e+06 / 92
p0 133.9 ± 0.0006788
136
135
134
133
132
pull
Entries 93
Mean −7.776
Std Dev 0
800
600
400
200
0
−200
−400
−600

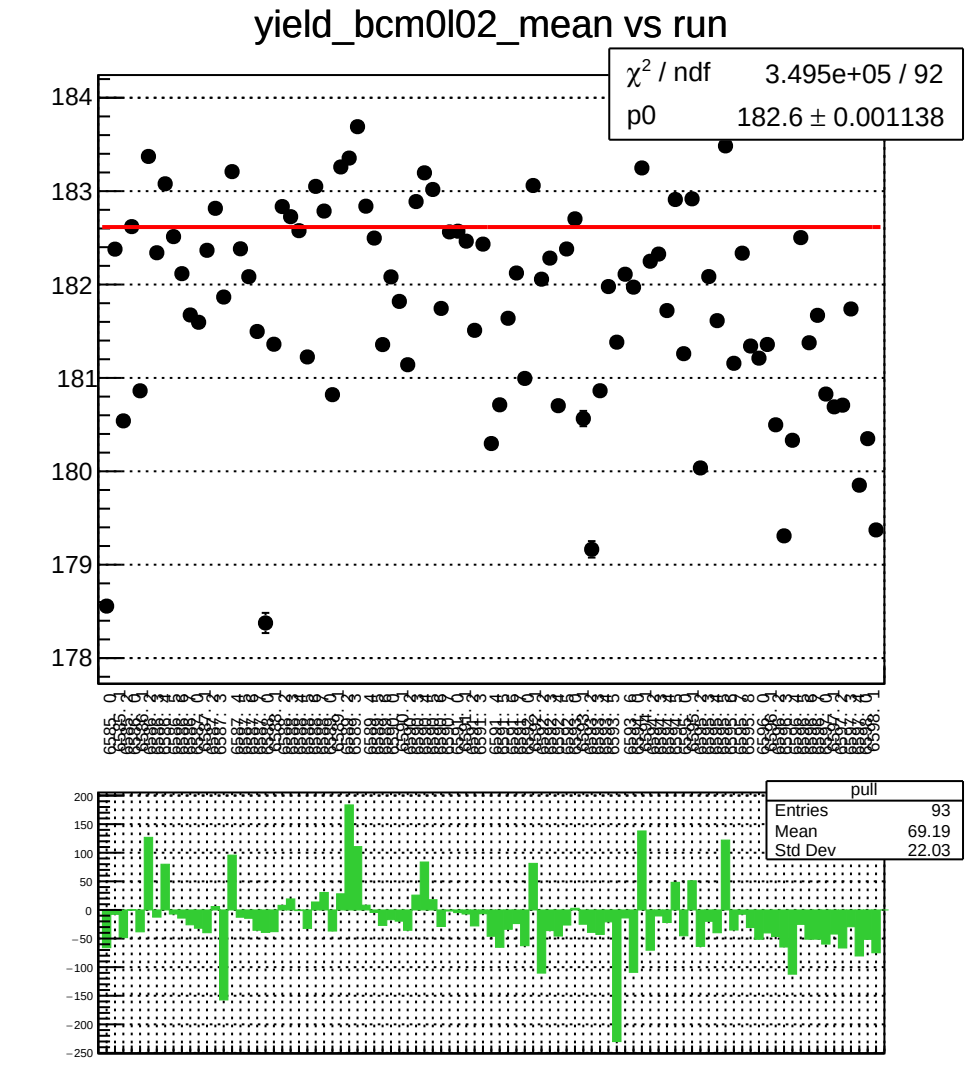

pull1D
Entries 93
Mean 2.217
Std Dev 2.31
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

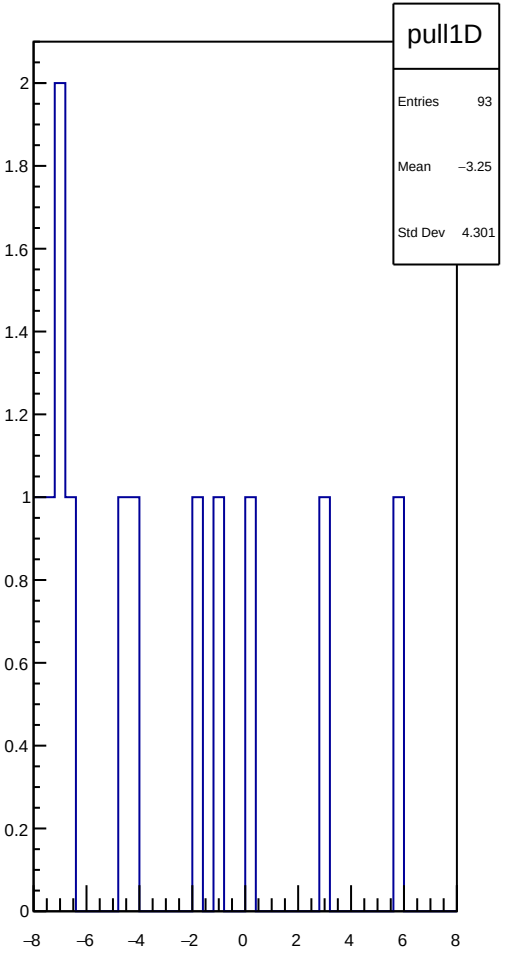

yield_cav4cQ_rms vs run
χ² / ndf 6.529e+05 / 92
p0 0.5074 ± 0.00048
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

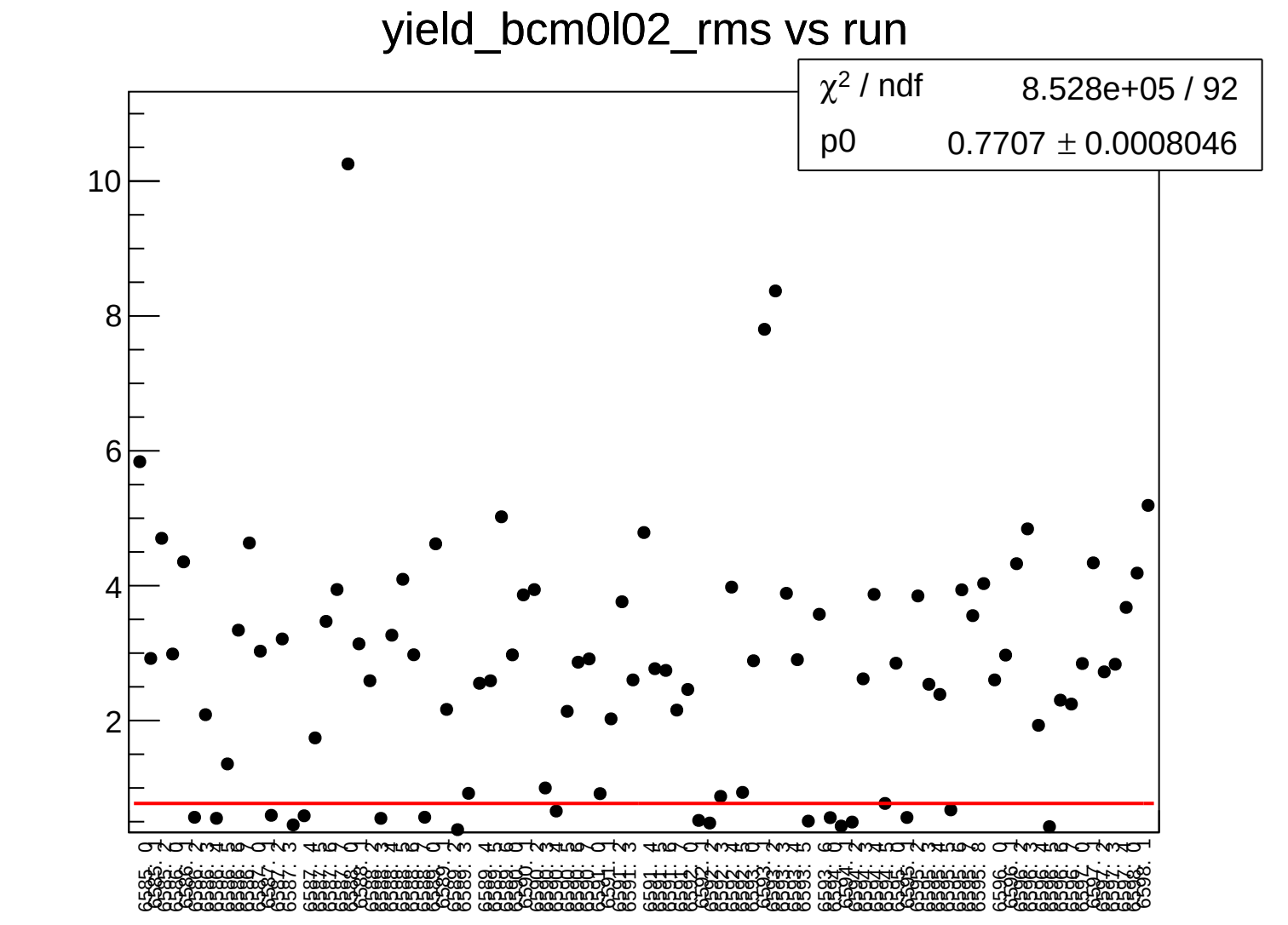

yield_cav4dQ_mean vs run
χ² / ndf 8.694e+05 / 92
p0 137 ± 0.0003851
137.8
137.6
137.4
137.2
137
136.8
136.6
136.4
136.2
136
pull
Entries 93
Mean 542.8
Std Dev 0
200
100
0
−100
−200
−300

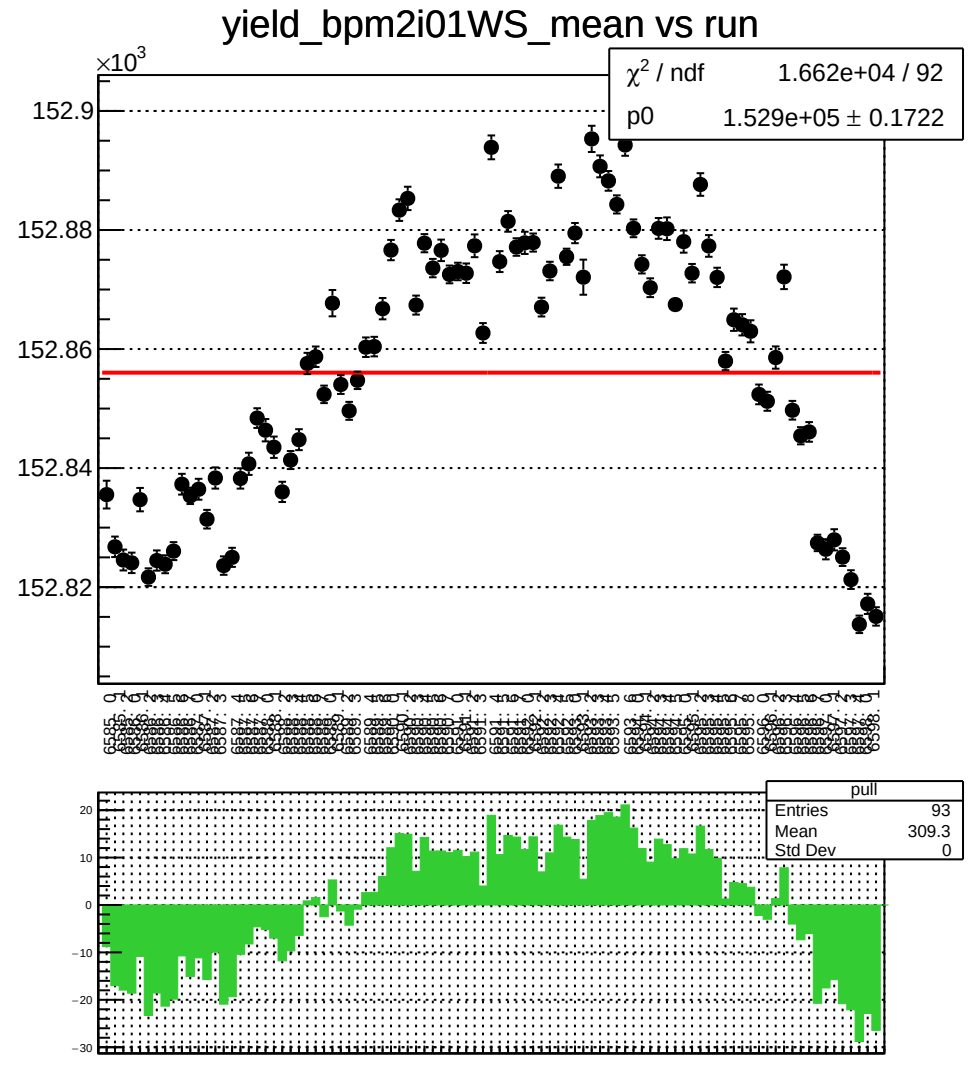

pull1D
Entries 93
Mean 3.34
Std Dev 2.099
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

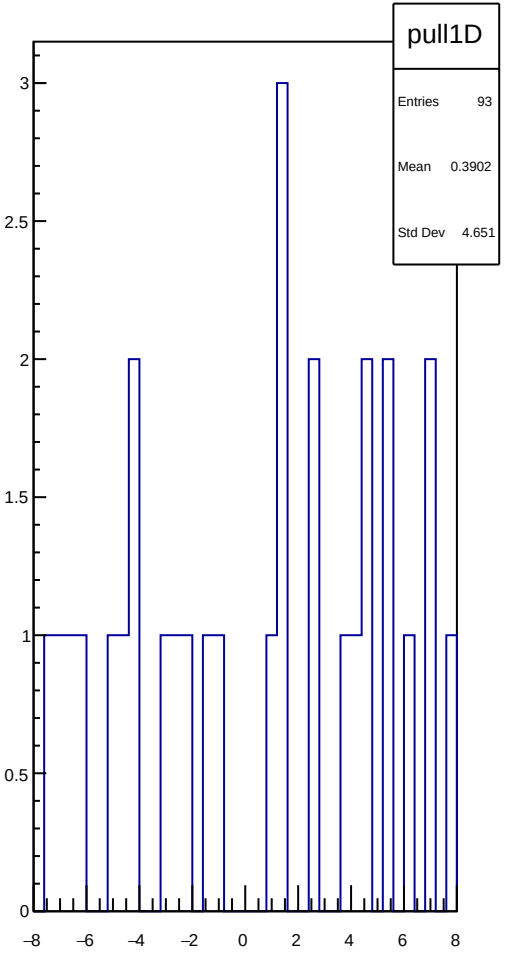

yield_cav4dQ_rms vs run
χ² / ndf 4.795e+04 / 92
p0 0.3573 ± 0.0002723
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

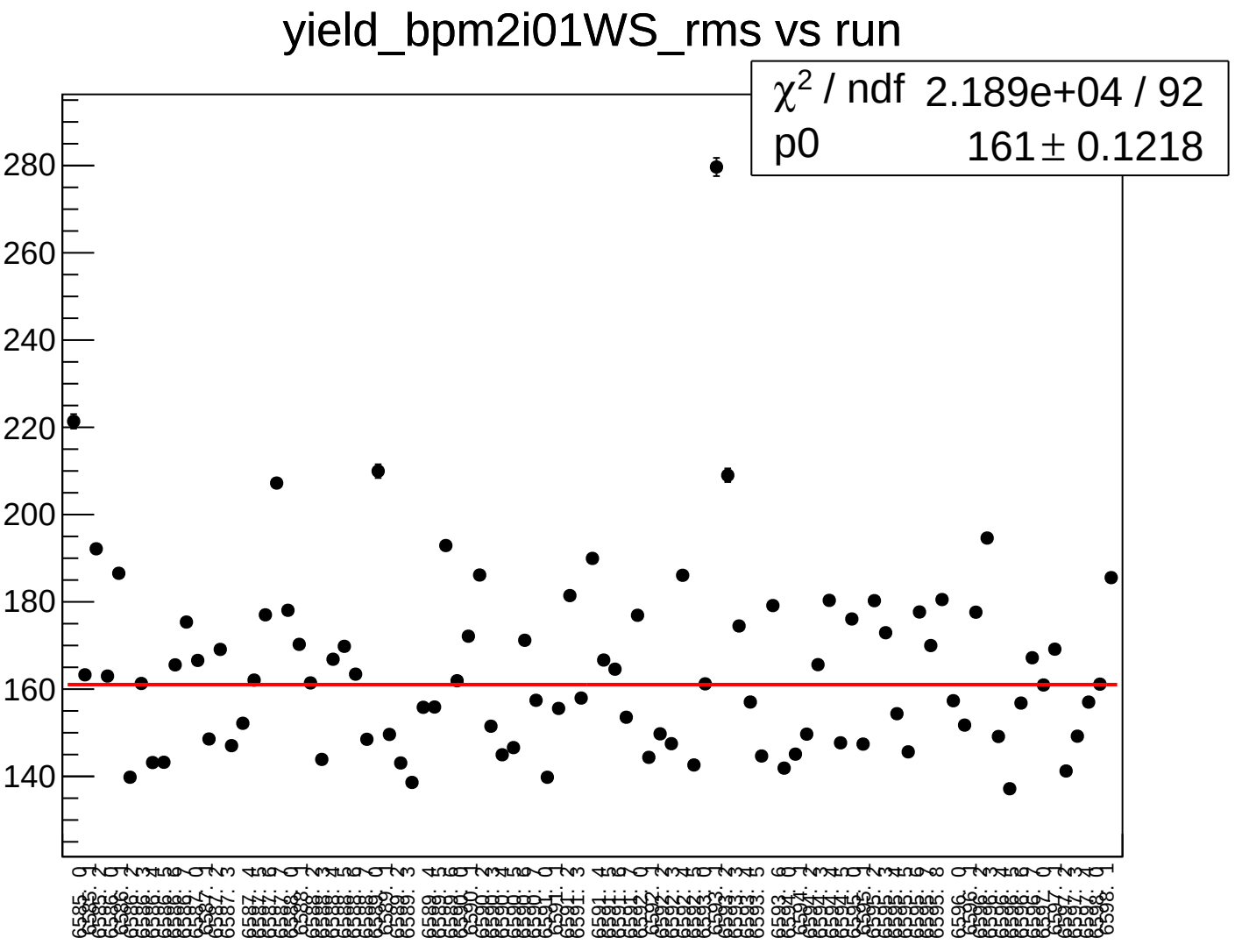

yield_bcm0l02_mean vs run
χ² / ndf 3.495e+05 / 92
p0 182.6 ± 0.001138
184
183
182
181
180
179
178
pull
Entries 93
Mean 69.19
Std Dev 22.03
200
150
100
50
0
−50
−100
−150
−200
−250

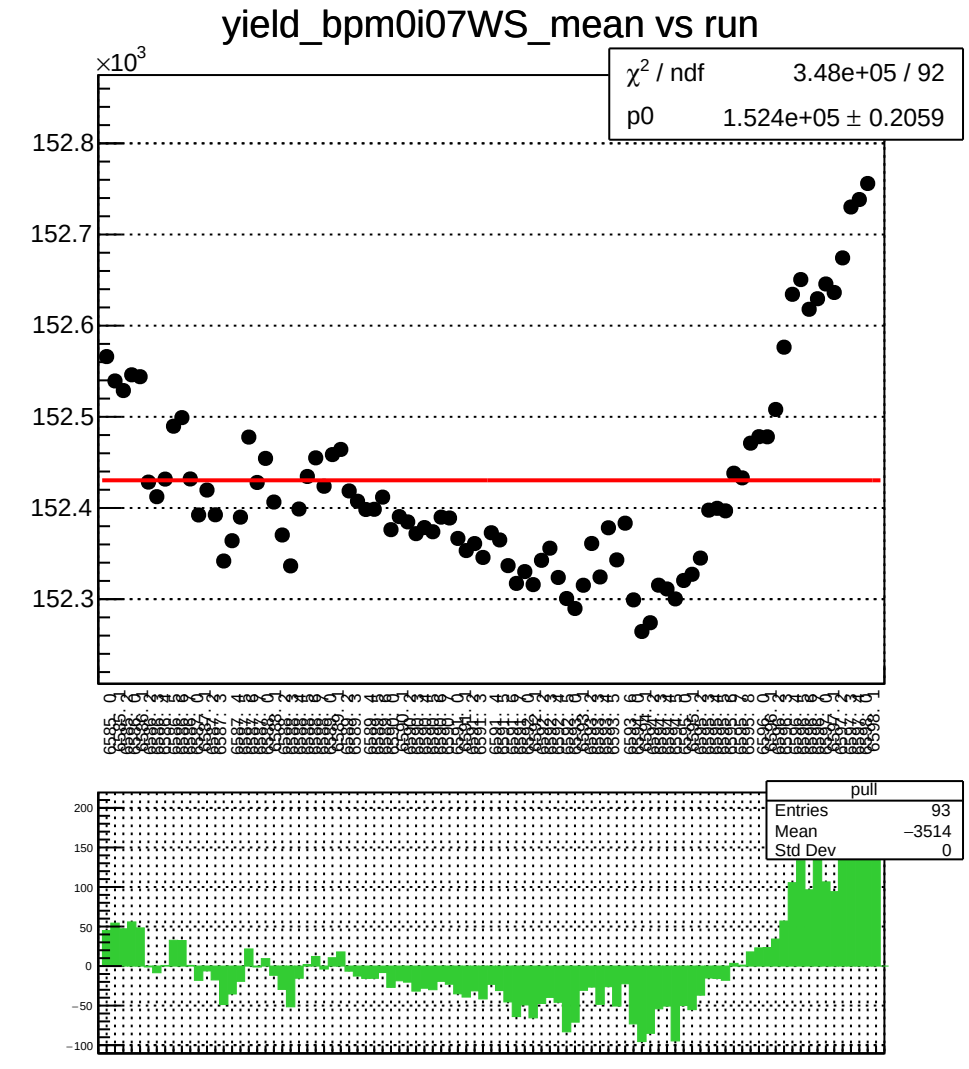

pull1D
Entries 93
Mean −3.25
Std Dev 4.301
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

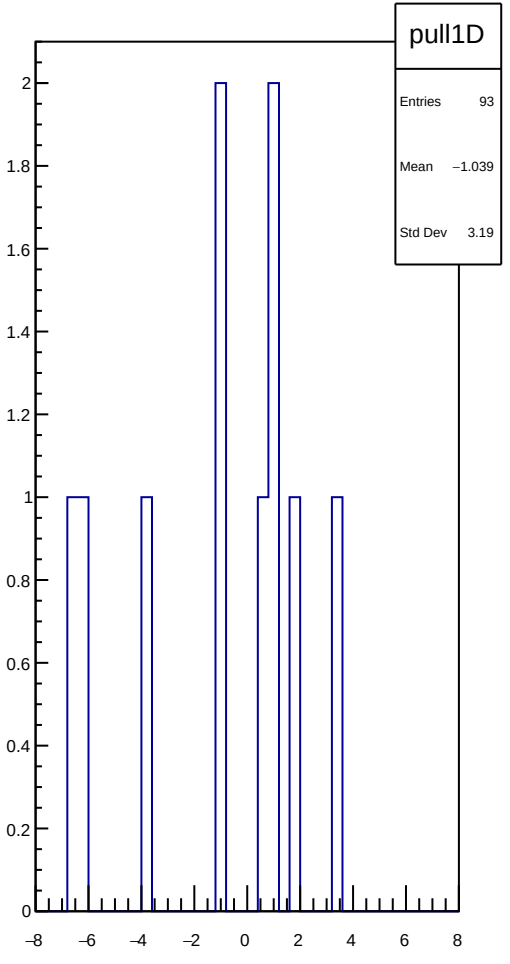

yield_bcm0l02_rms vs run
χ² / ndf 8.528e+05 / 92
p0 0.7707 ± 0.0008046
10
8
6
4
2

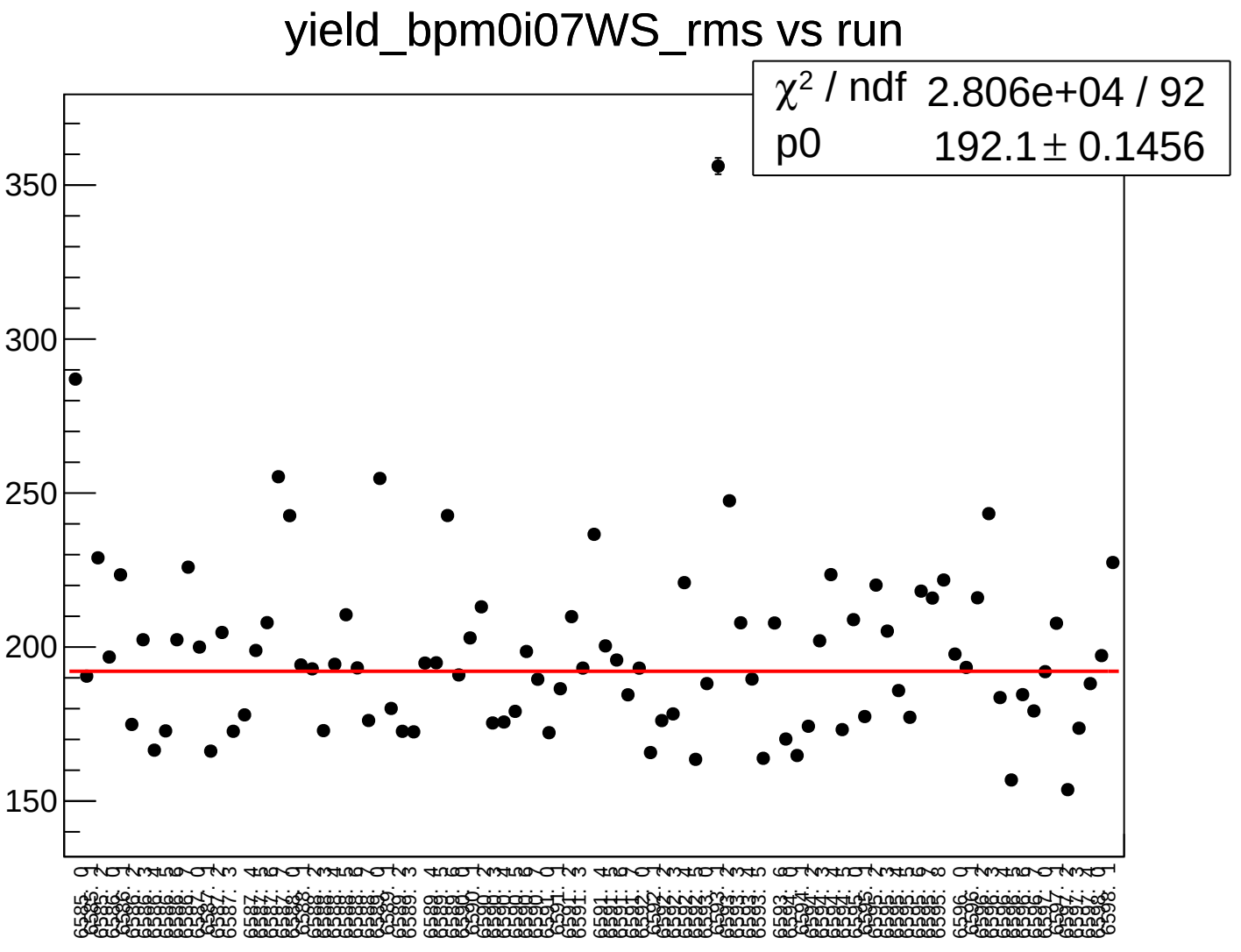

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.662e+04 / 92
p0 1.529e+05 ± 0.1722
152.9
152.88
152.86
152.84
152.82
pull
Entries 93
Mean 309.3
Std Dev 0
20
10
0
−10
−20
−30

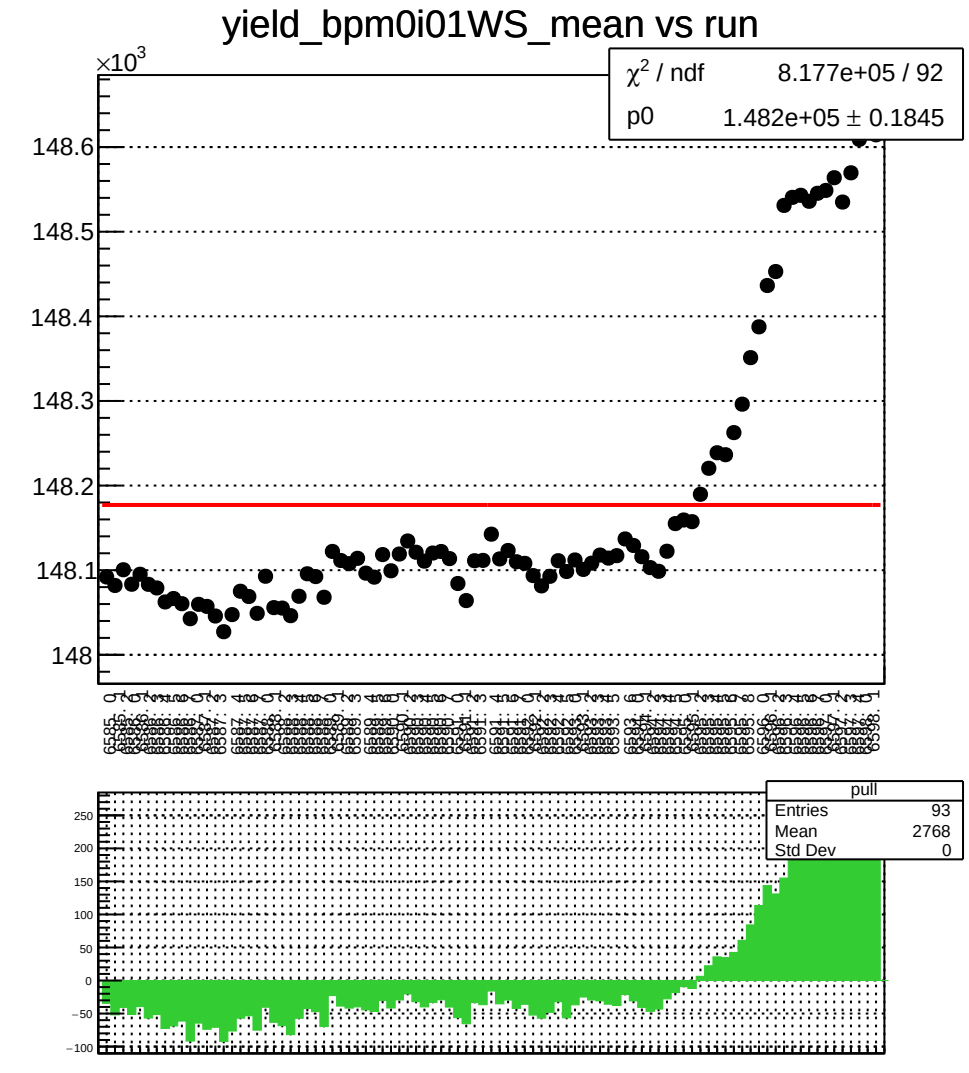

pull1D
Entries 93
Mean 0.3902
Std Dev 4.651
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

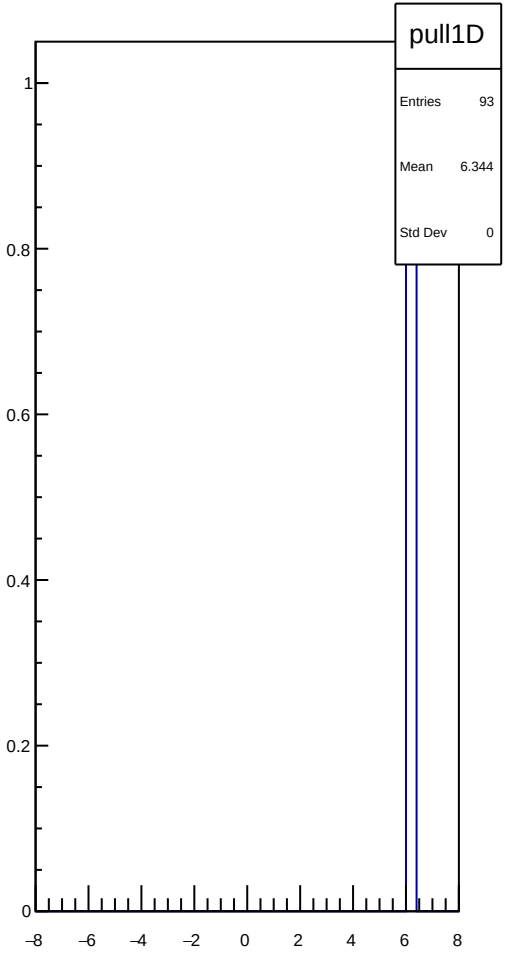

yield_bpm2i01WS_rms vs run
χ^2 / ndf 2.189e+04 / 92
p0 161 ± 0.1218
280
260
240
220
200
180
160
140

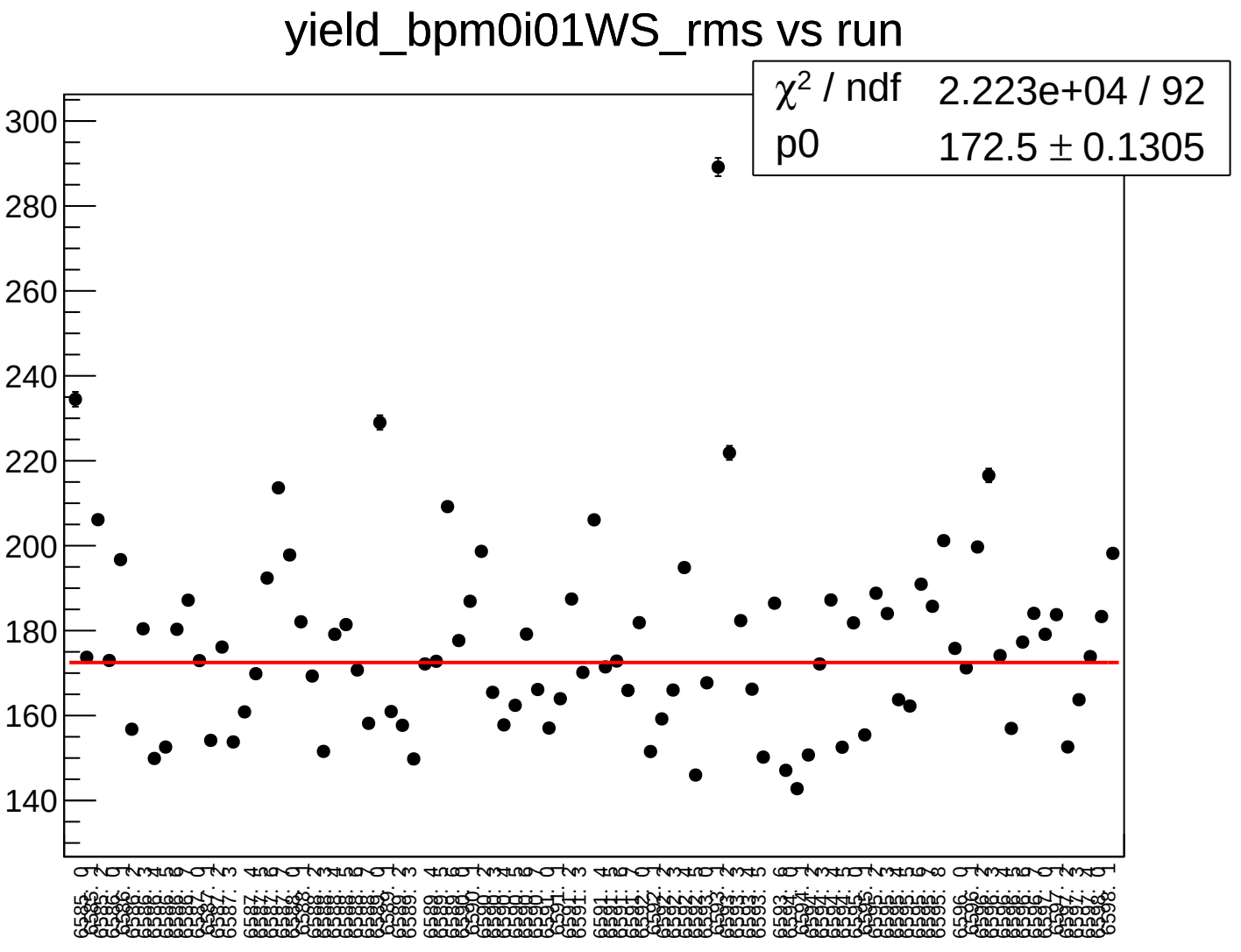

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.48e+05 / 92
p0 1.524e+05 ± 0.2059
152.8
152.7
152.6
152.5
152.4
152.3
pull
Entries 93
Mean −3514
Std Dev 0
200
150
100
50
0
−50
−100

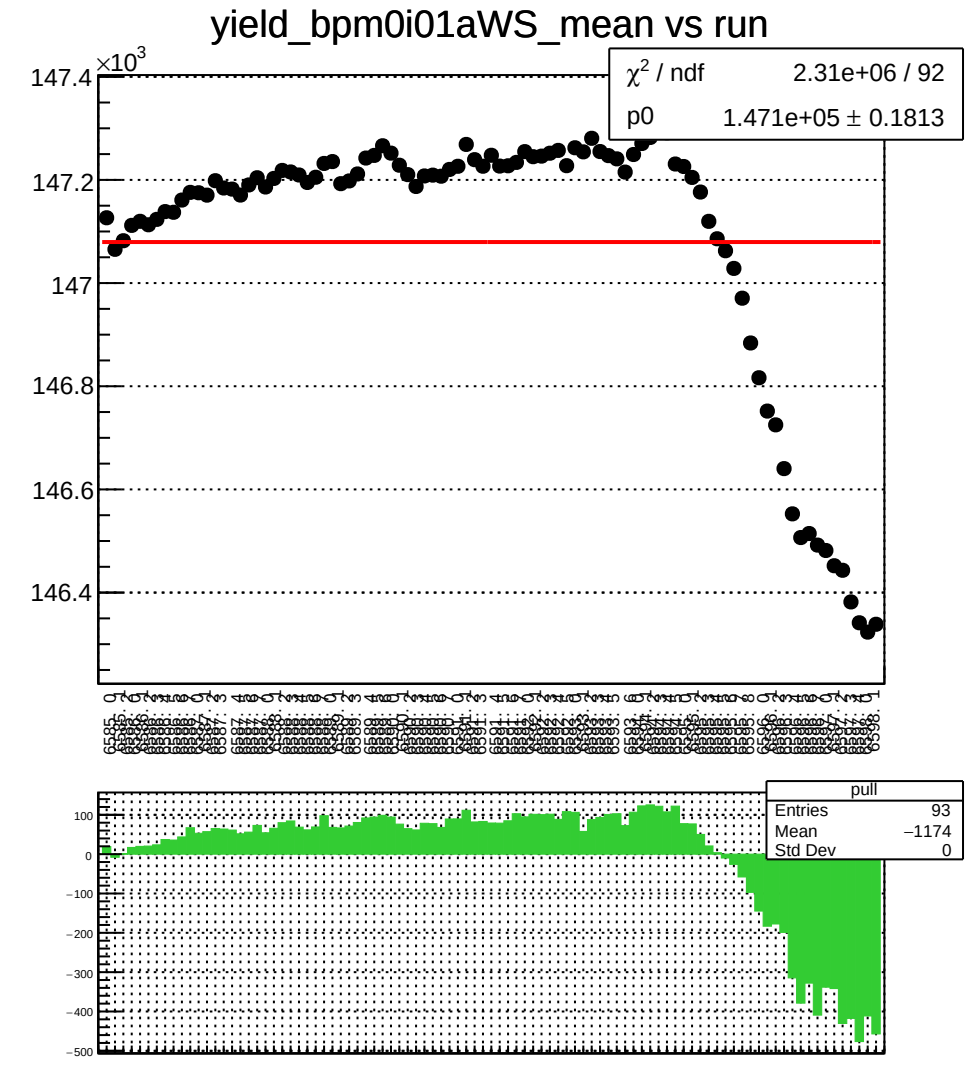

pull1D
Entries 93
Mean −1.039
Std Dev 3.19
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

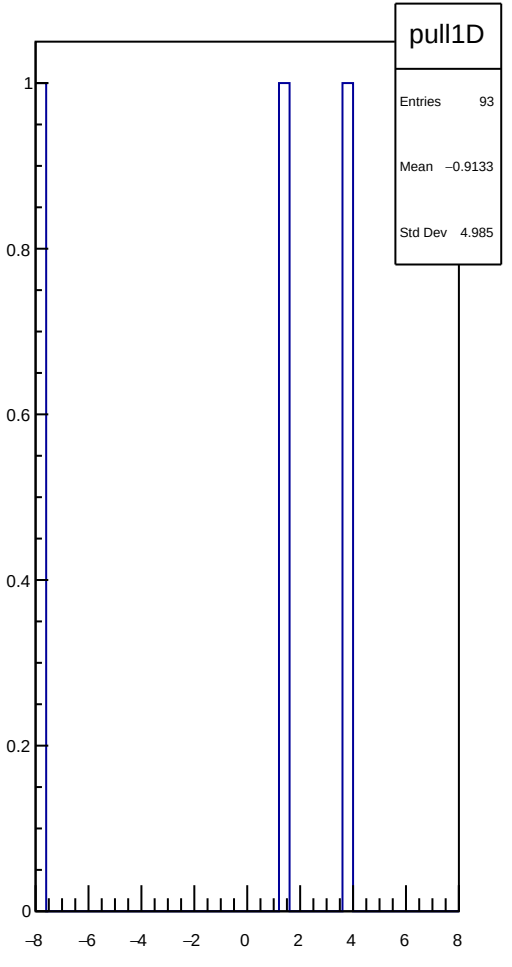

yield_bpm0i07WS_rms vs run
χ² / ndf 2.806e+04 / 92
p0 192.1 ± 0.1456
350
300
250
200
150

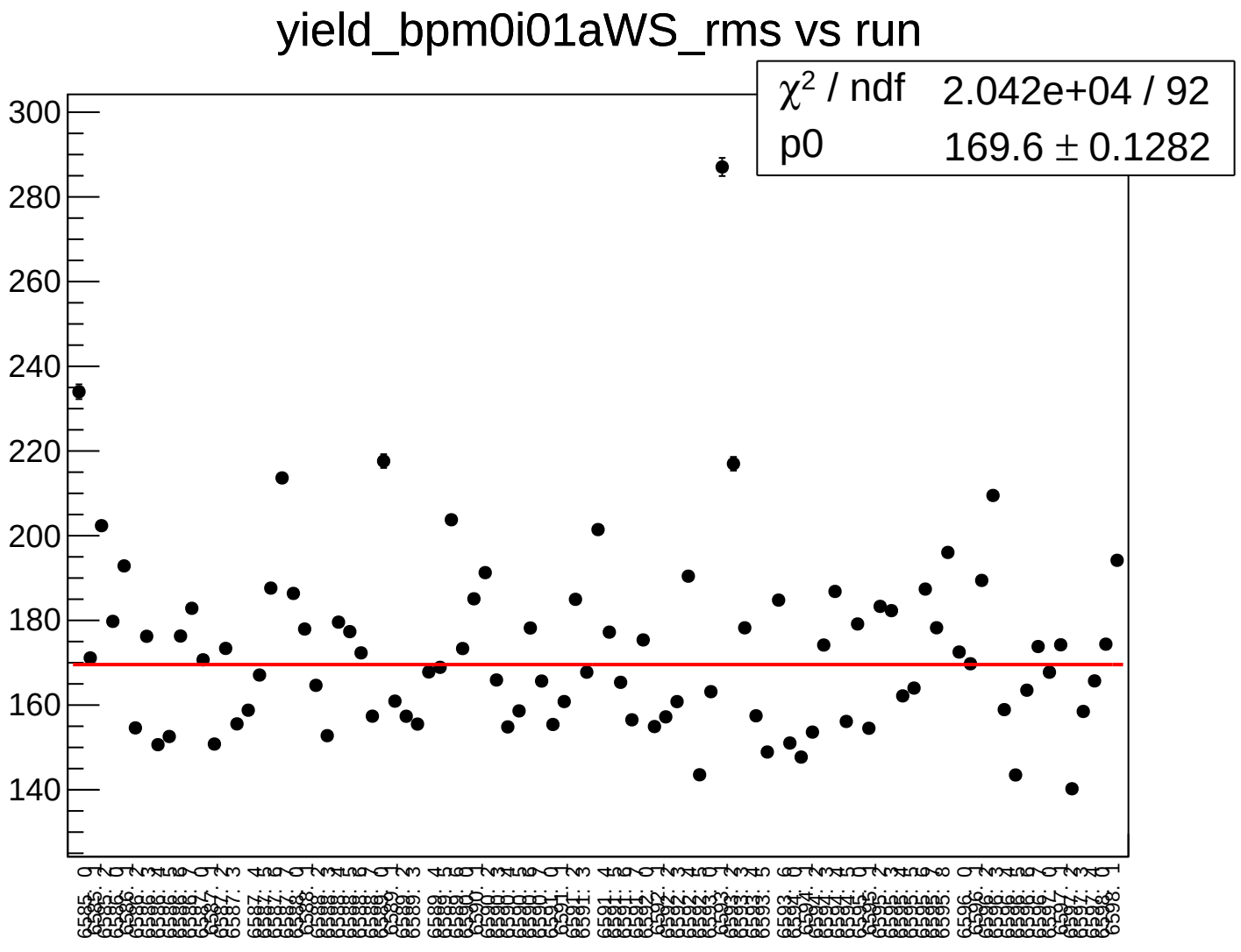

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 8.177e+05 / 92
p0 1.482e+05 ± 0.1845
148.6
148.5
148.4
148.3
148.2
148.1
148
pull
Entries 93
Mean 2768
Std Dev 0
250
200
150
100
50
0
−50
−100

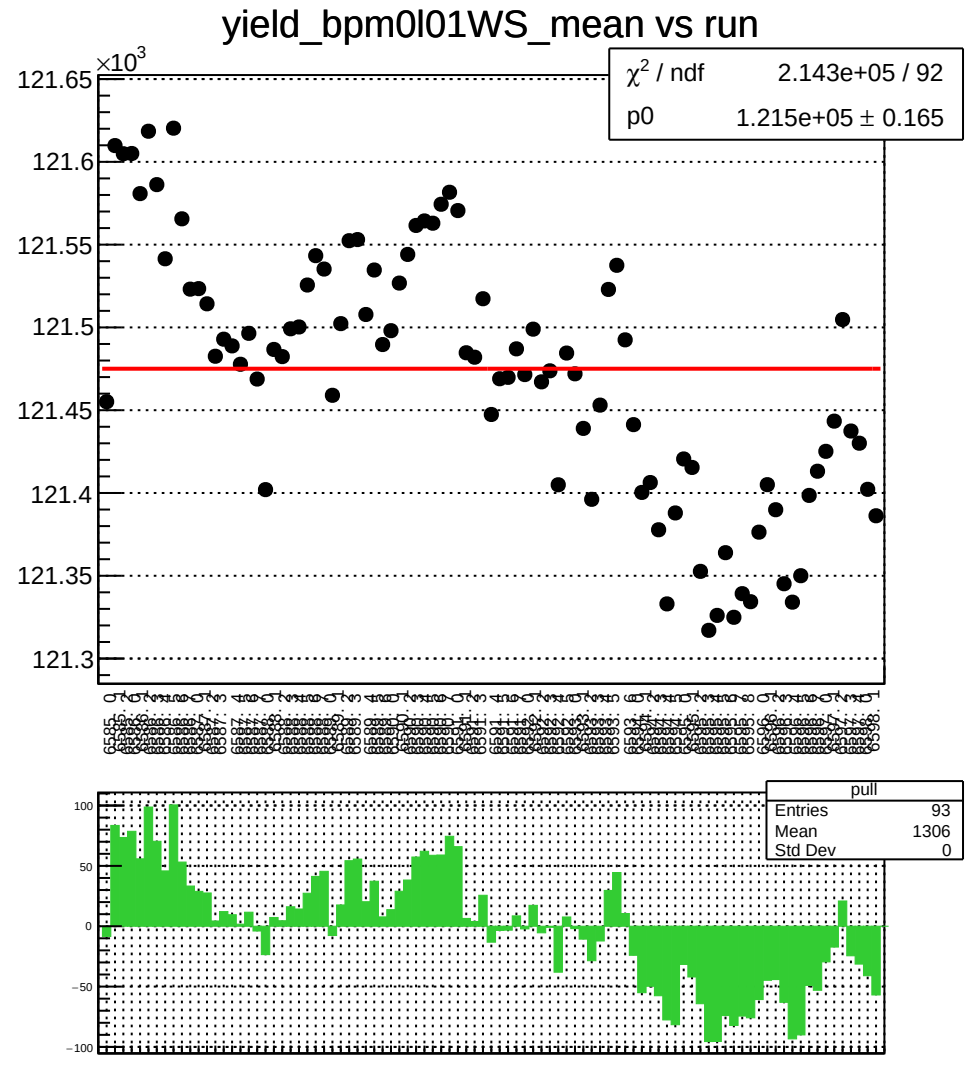

pull1D
Entries 93
Mean 6.344
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

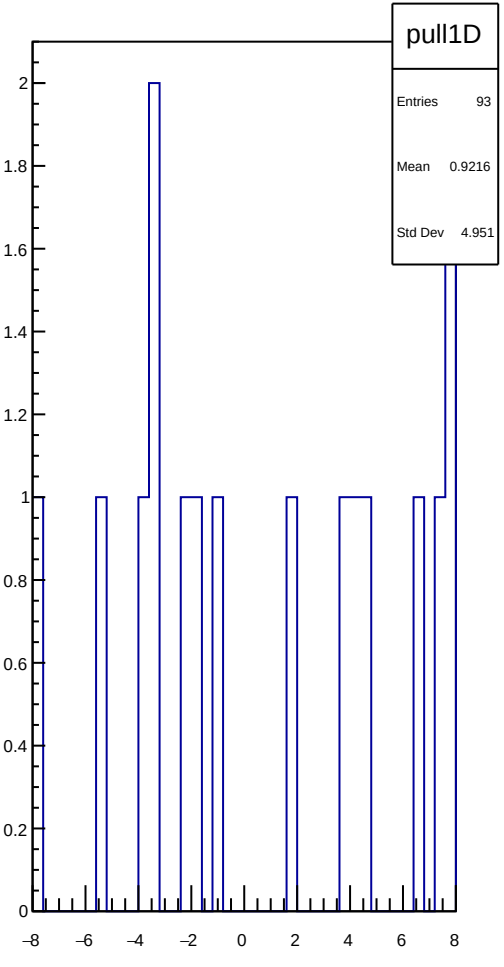

yield_bpm0i01WS_rms vs run
χ² / ndf 2.223e+04 / 92
p0 172.5 ± 0.1305
300
280
260
240
220
200
180
160
140

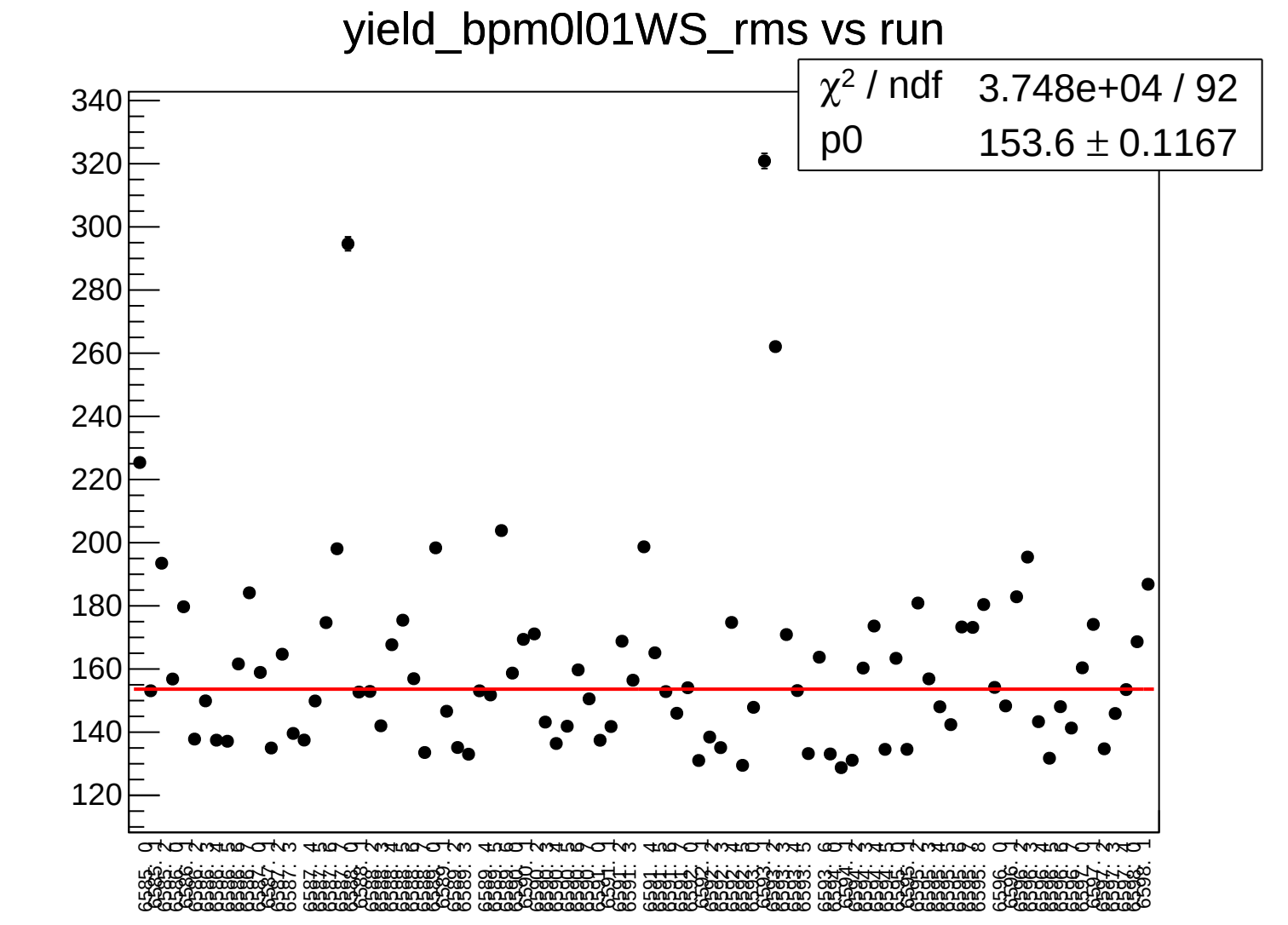

yield_bpm0i01aWS_mean vs run
×10^3
147.4
147.2
147
146.8
146.6
146.4
χ² / ndf 2.31e+06 / 92
p0 1.471e+05 ± 0.1813
pull
Entries 93
Mean −1174
Std Dev 0
100
0
−100
−200
−300
−400
−500

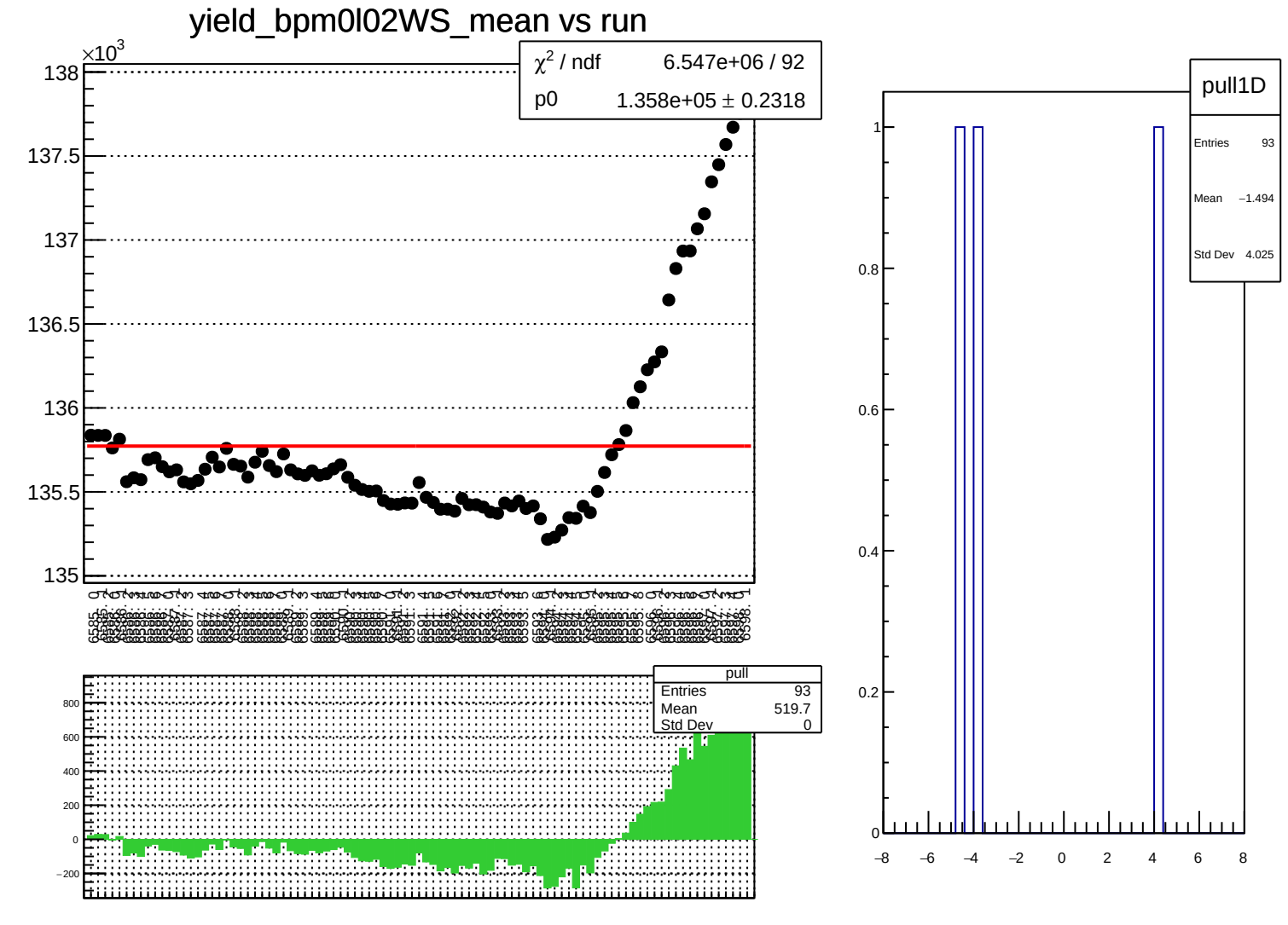

pull1D
Entries 93
Mean −0.9133
Std Dev 4.985
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

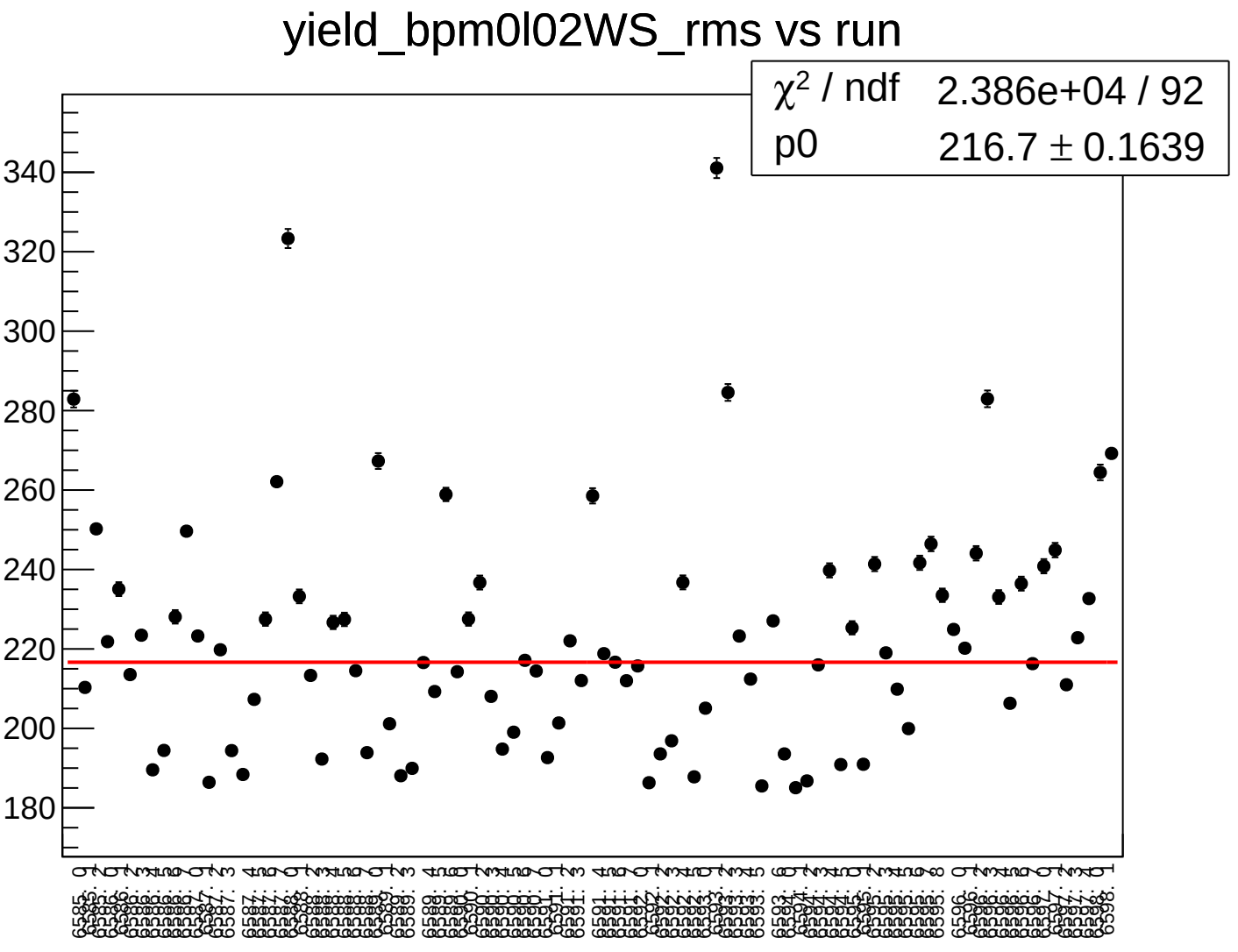

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.042e+04 / 92
p0 169.6 ± 0.1282
300
280
260
240
220
200
180
160
140

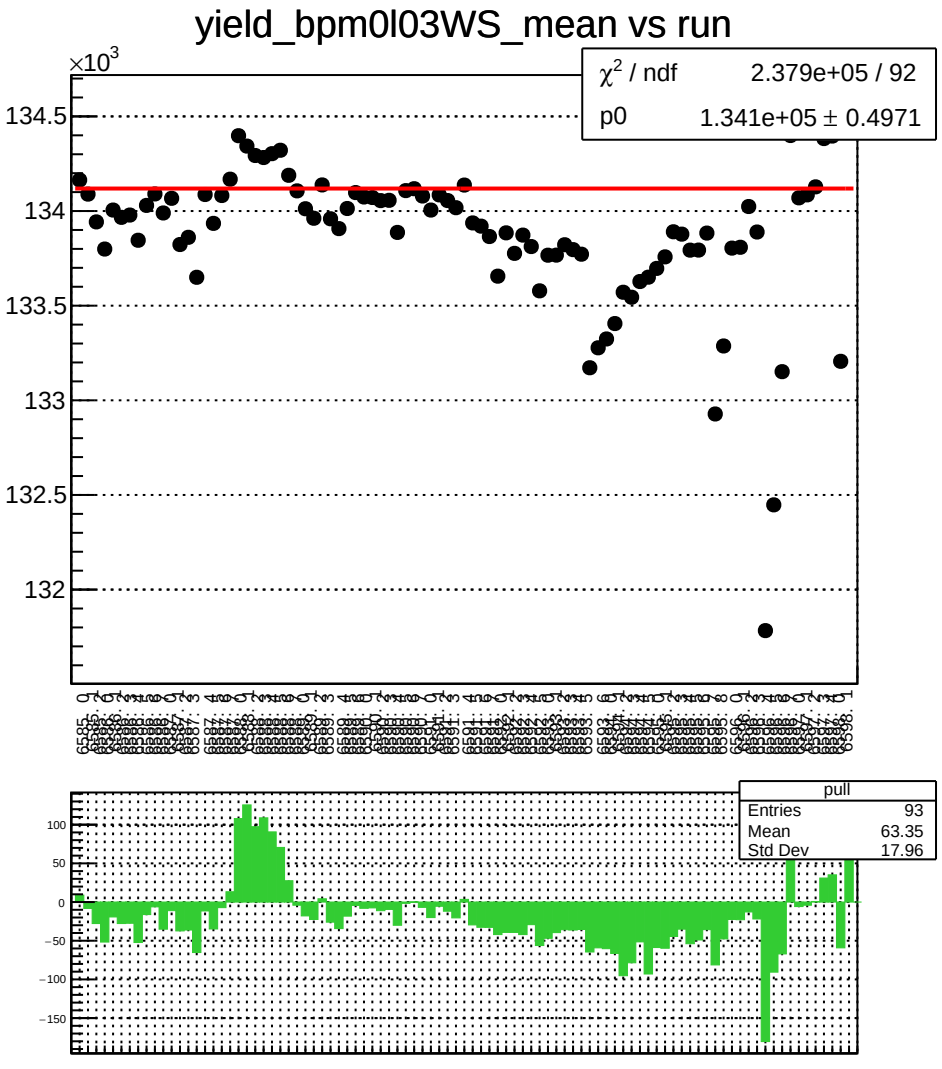

yield_bpm0l01WS_mean vs run
×10^3
121.65
121.6
121.55
121.5
121.45
121.4
121.35
121.3
χ² / ndf 2.143e+05 / 92
p0 1.215e+05 ± 0.165
pull
Entries 93
Mean 1306
Std Dev 0
100
50
0
−50
−100

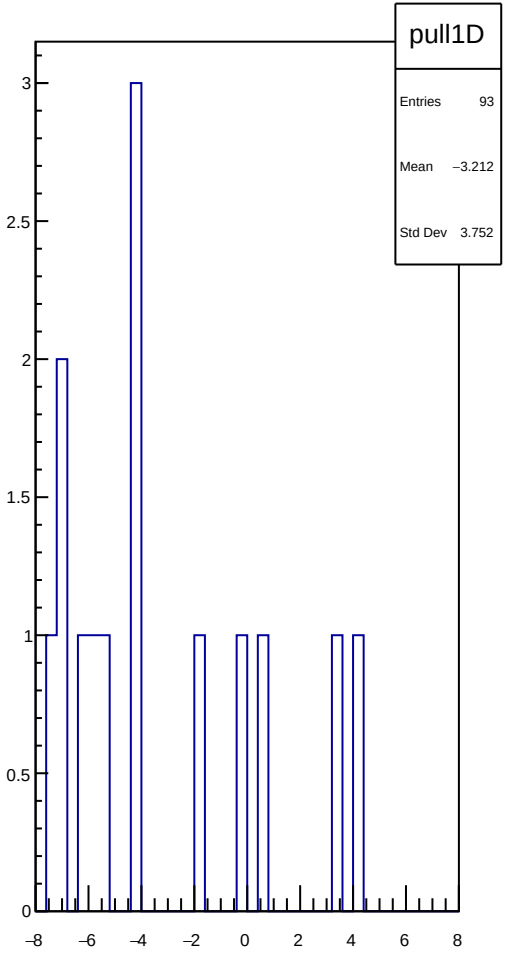

pull1D
Entries 93
Mean 0.9216
Std Dev 4.951
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

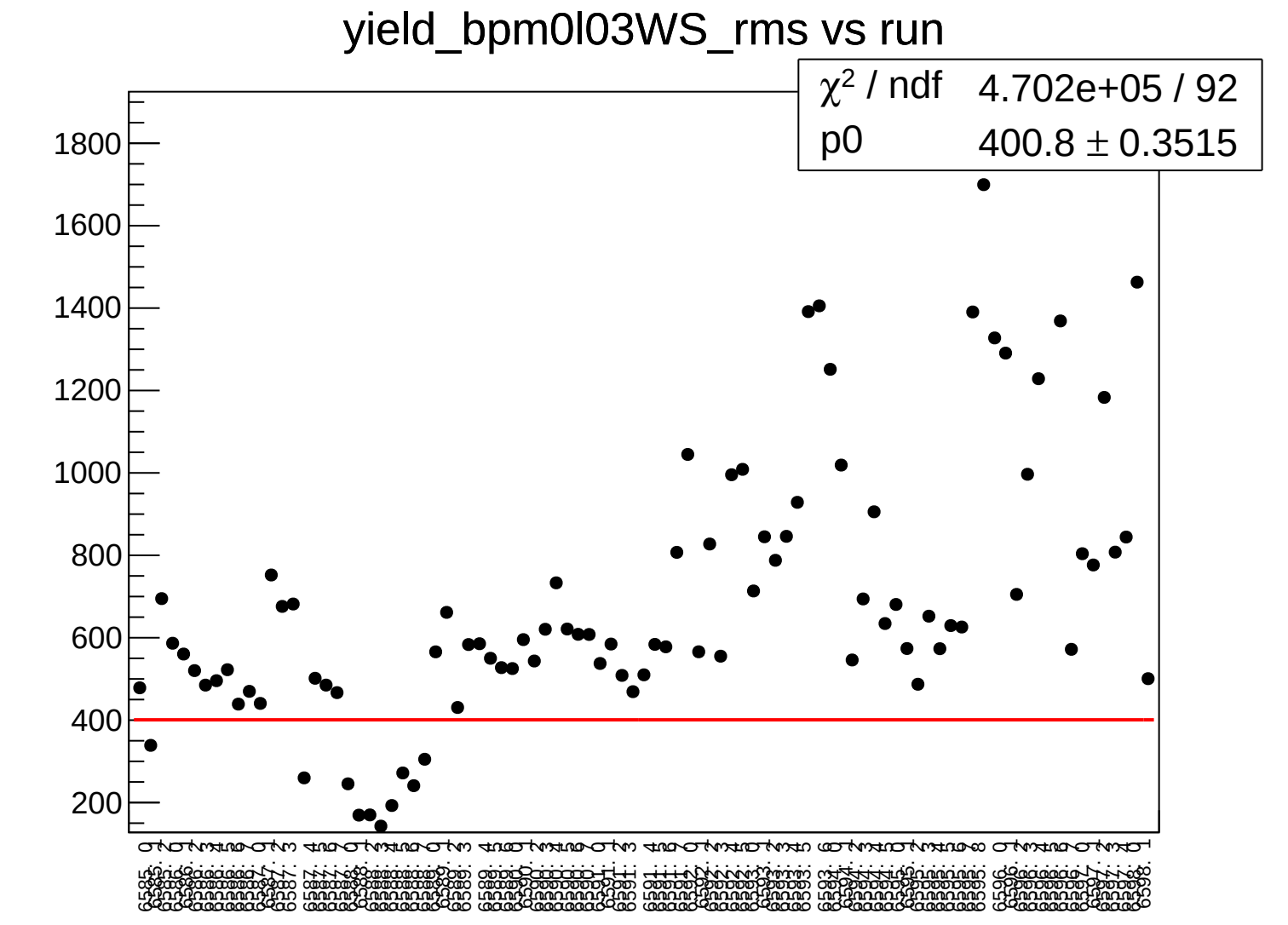

yield_bpm0l01WS_rms vs run
χ^2 / ndf 3.748e+04 / 92
p0 153.6 ± 0.1167
340
320
300
280
260
240
220
200
180
160
140
120

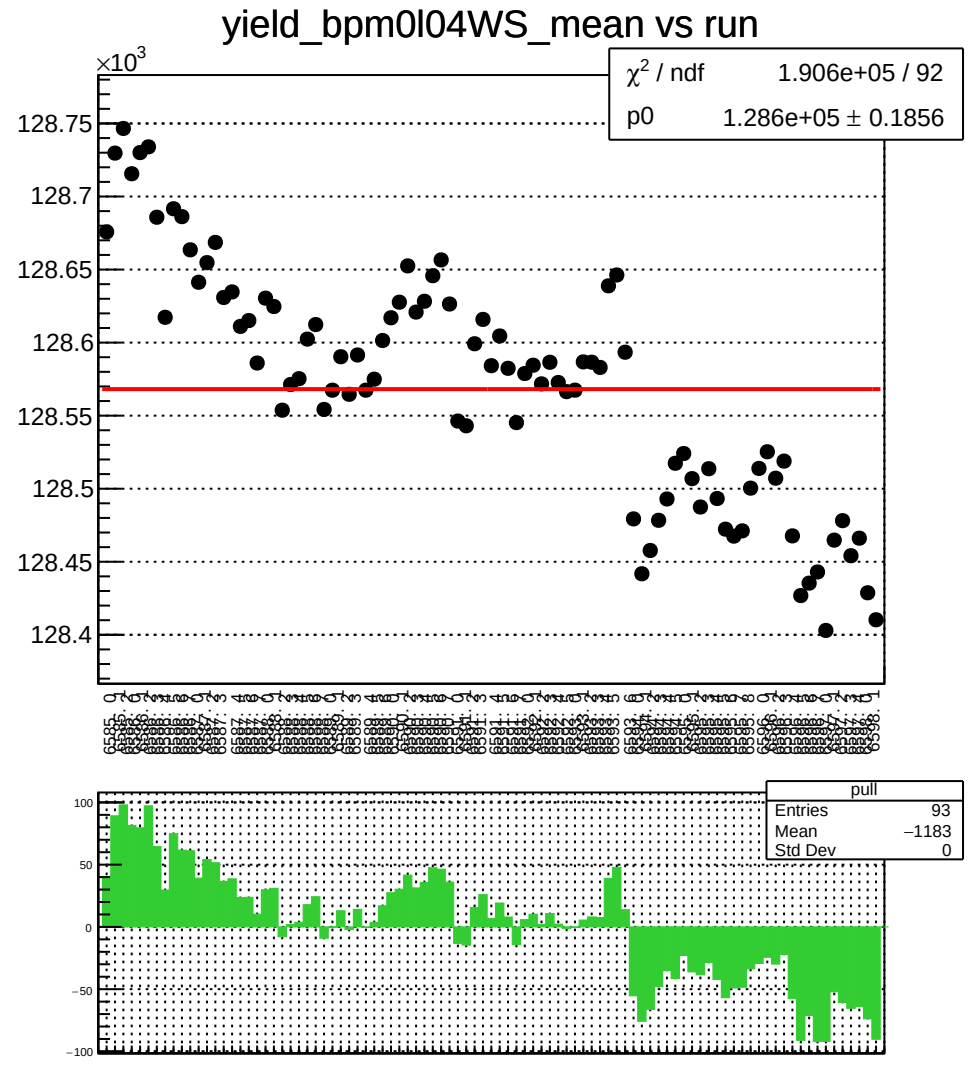

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 6.547e+06 / 92
p0 1.358e+05 ± 0.2318
138
137.5
137
136.5
136
135.5
135
pull
Entries 93
Mean 519.7
Std Dev 0
800
600
400
200
0
−200
pull1D
Entries 93
Mean −1.494
Std Dev 4.025
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

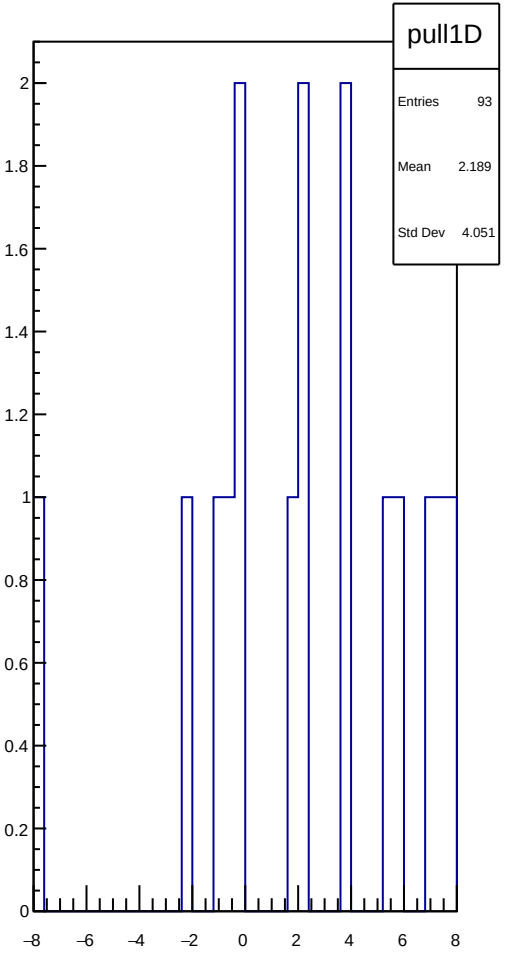

yield_bpm0l02WS_rms vs run
χ² / ndf 2.386e+04 / 92
p0 216.7 ± 0.1639
340
320
300
280
260
240
220
200
180

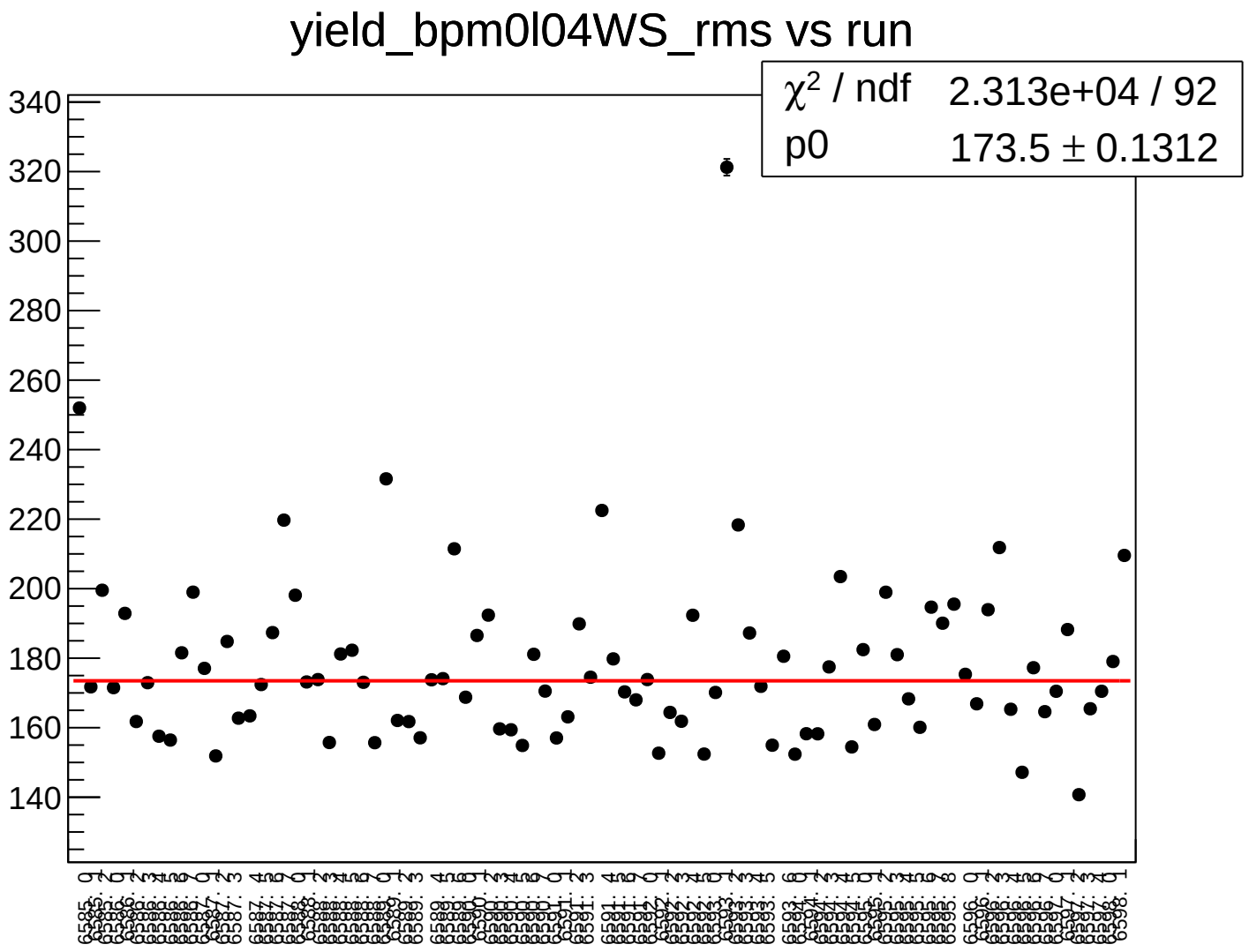

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 2.379e+05 / 92
p0 1.341e+05 ± 0.4971
134.5
134
133.5
133
132.5
132
pull
Entries 93
Mean 63.35
Std Dev 17.96
100
50
0
−50
−100
−150

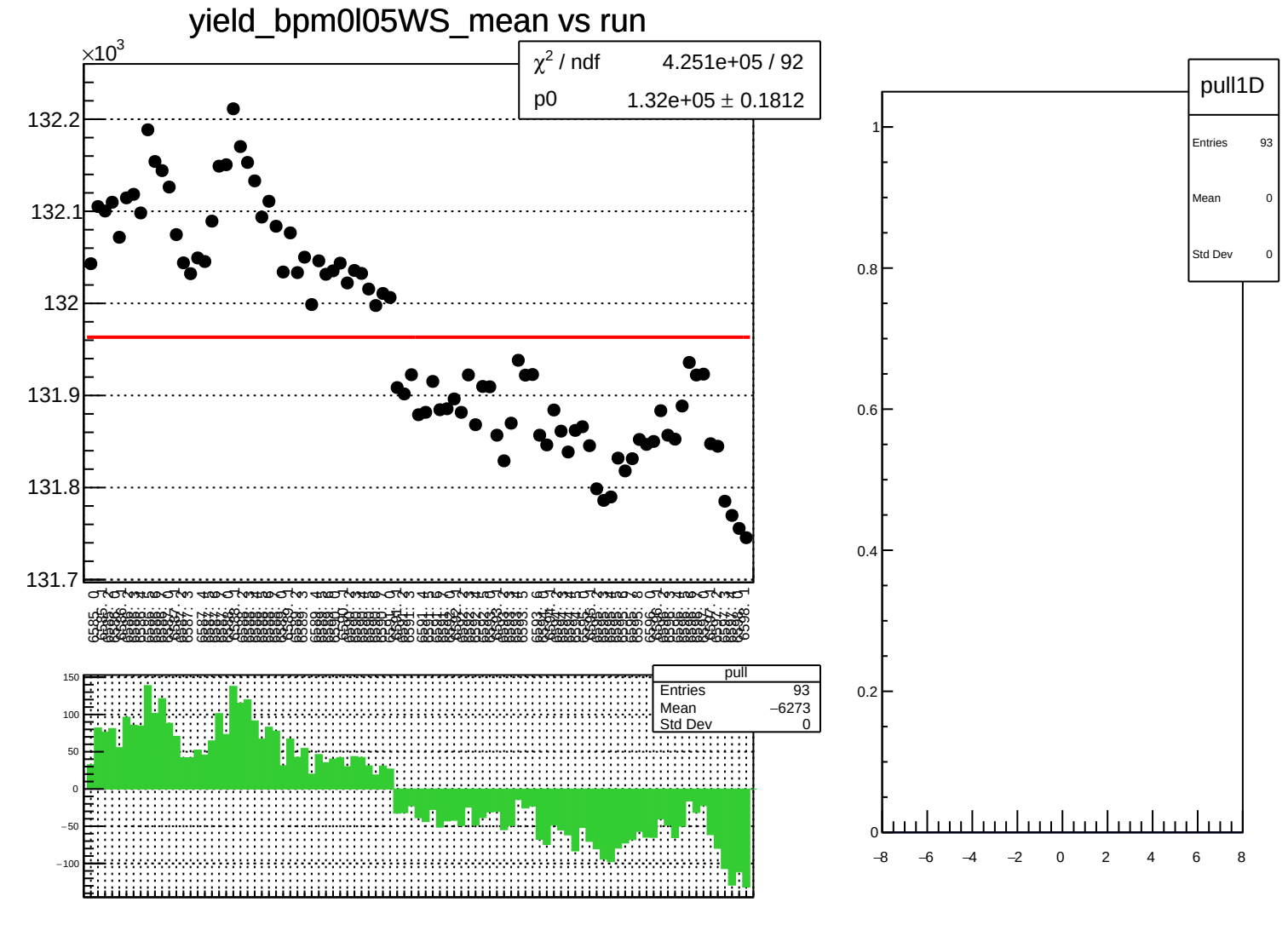

pull1D
Entries 93
Mean −3.212
Std Dev 3.752
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

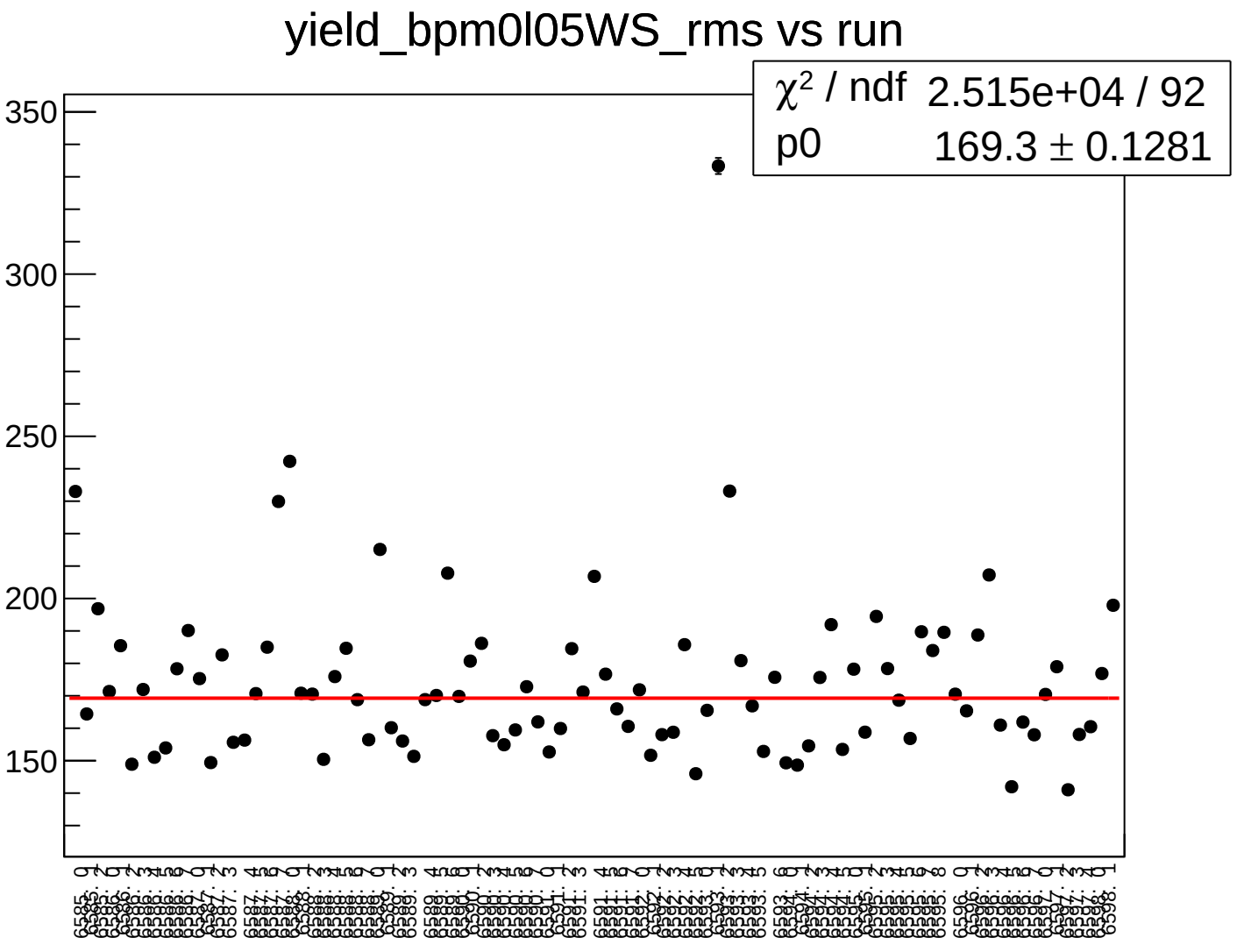

yield_bpm0l03WS_rms vs run
χ² / ndf 4.702e+05 / 92
p0 400.8 ± 0.3515
1800
1600
1400
1200
1000
800
600
400
200

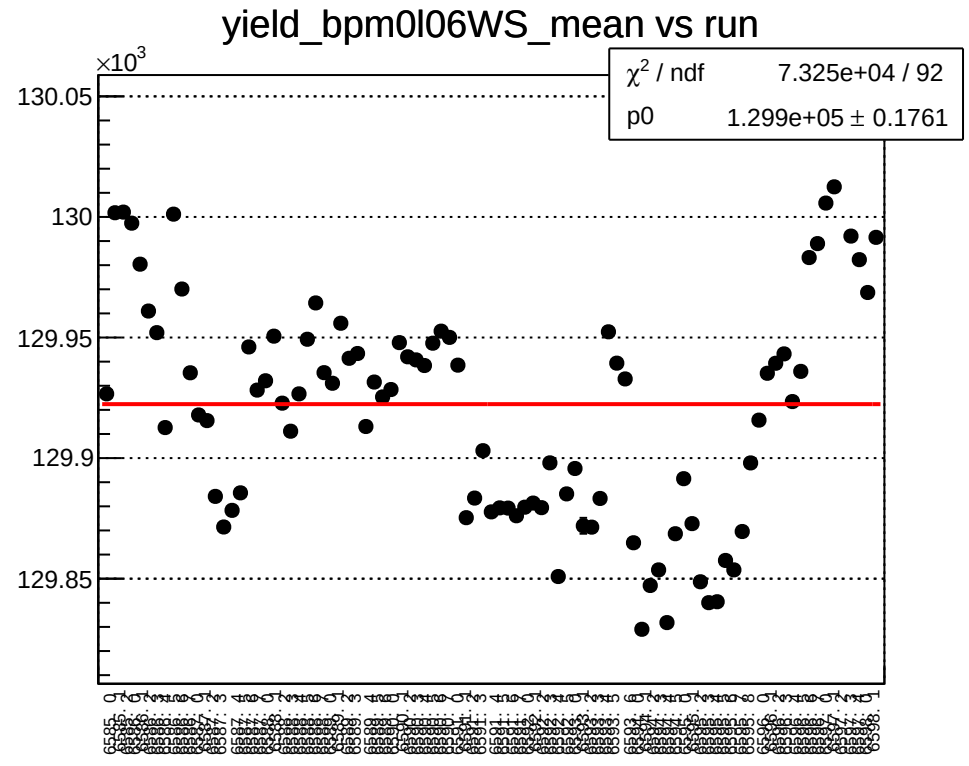

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.906e+05 / 92
p0 1.286e+05 ± 0.1856
128.75
128.7
128.65
128.6
128.55
128.5
128.45
128.4
pull
Entries 93
Mean −1183
Std Dev 0
100
50
0
−50
−100

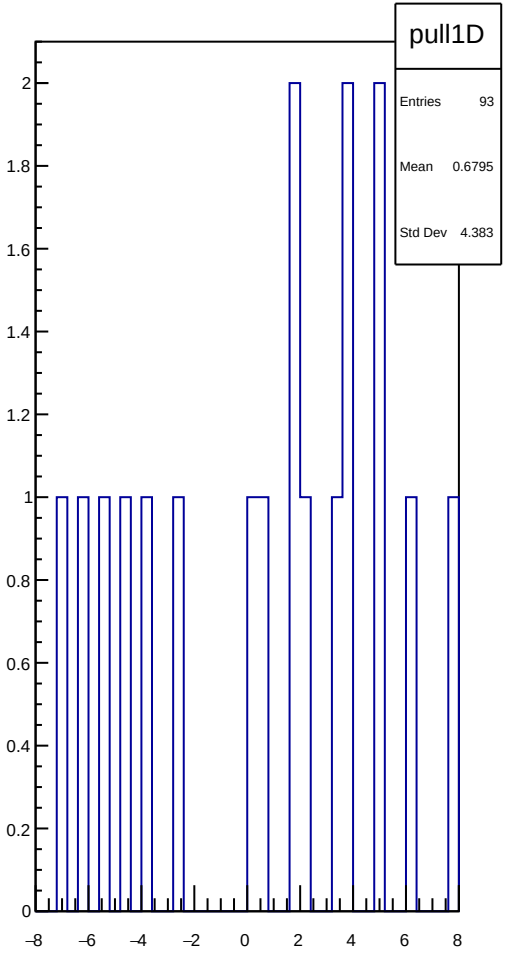

pull1D
Entries 93
Mean 2.189
Std Dev 4.051
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

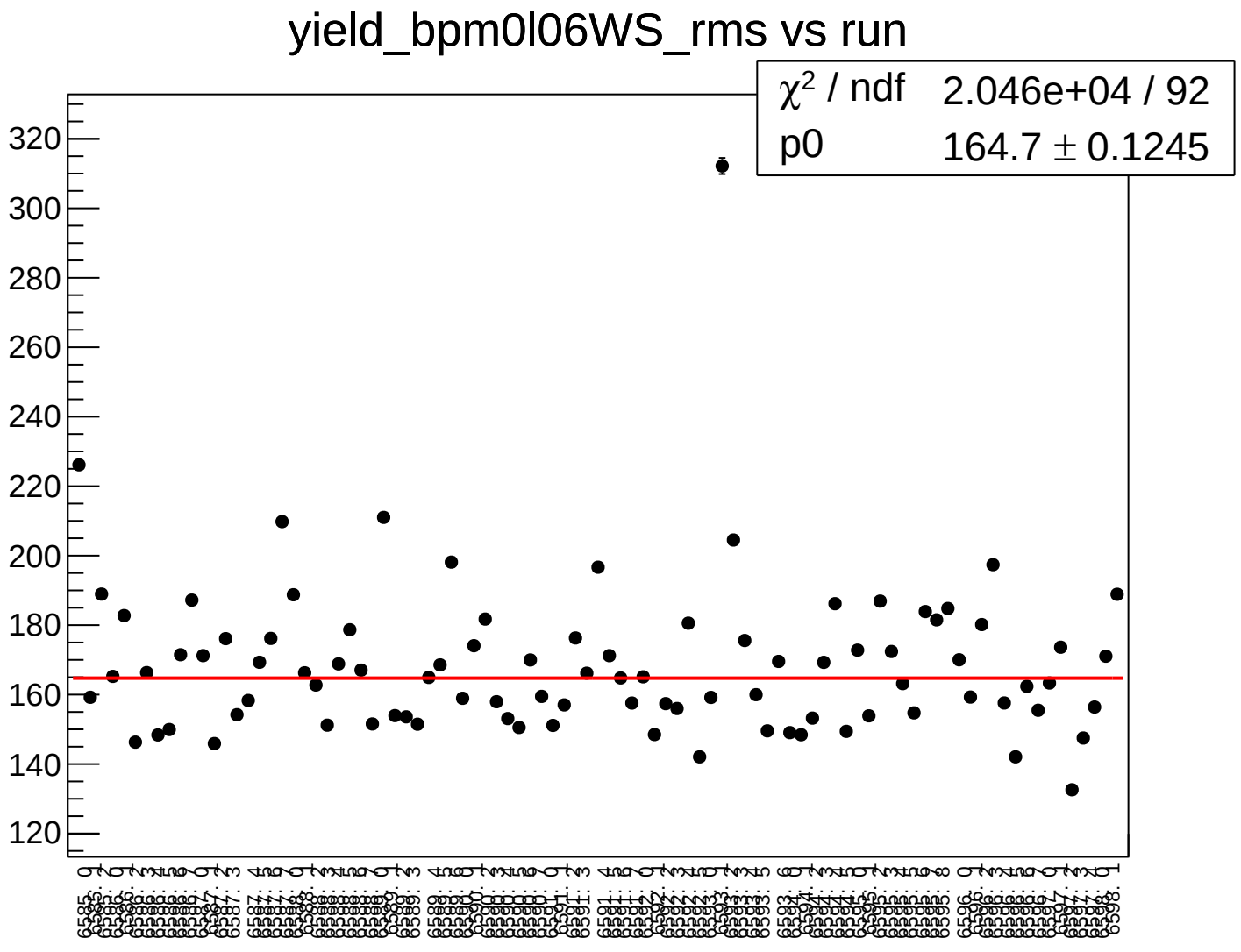

yield_bpm0l04WS_rms vs run
χ² / ndf 2.313e+04 / 92
p0 173.5 ± 0.1312
340
320
300
280
260
240
220
200
180
160
140

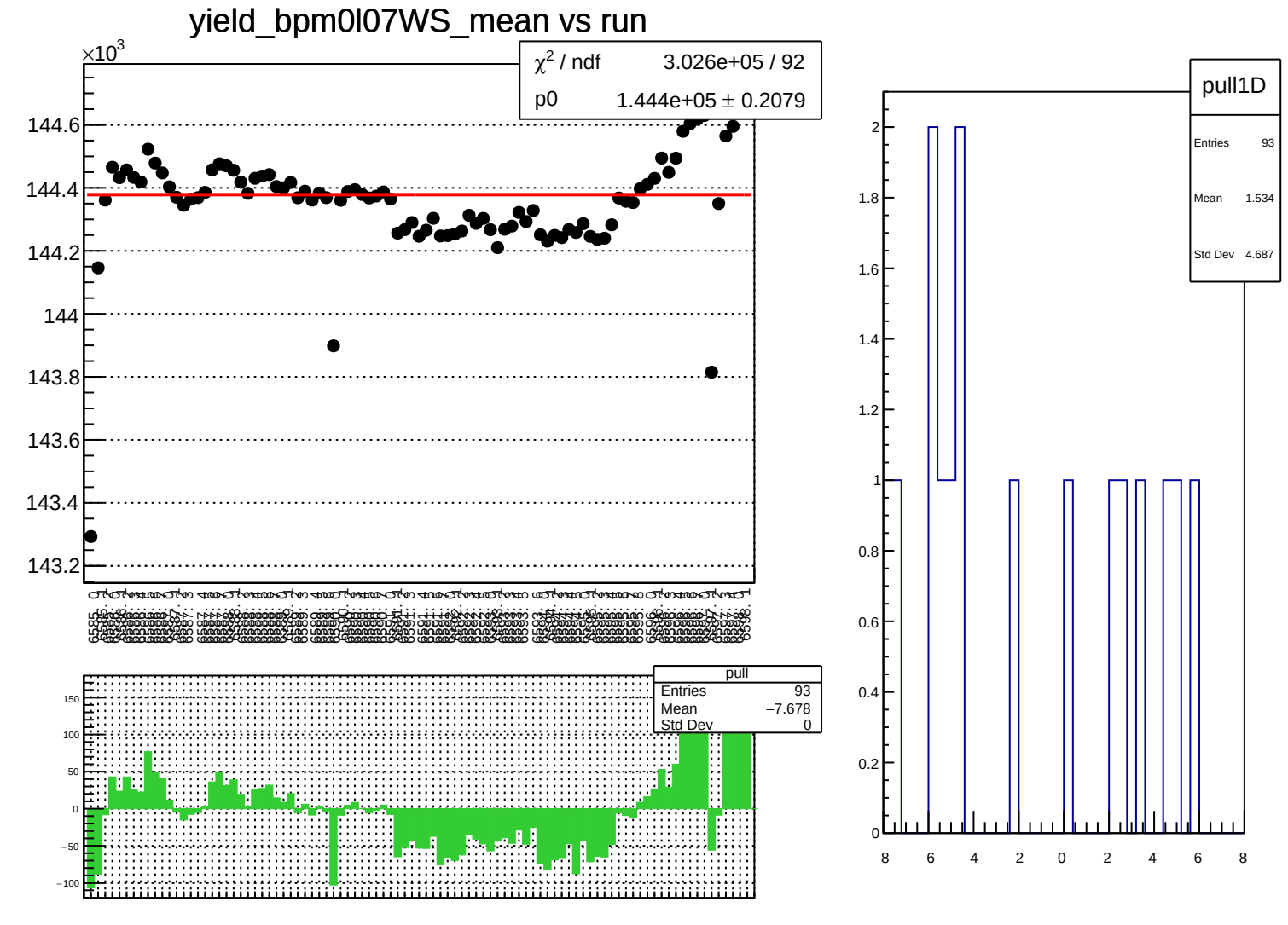

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 4.251e+05 / 92
p0 1.32e+05 ± 0.1812
132.2
132.1
132
131.9
131.8
131.7
pull
Entries 93
Mean −6273
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

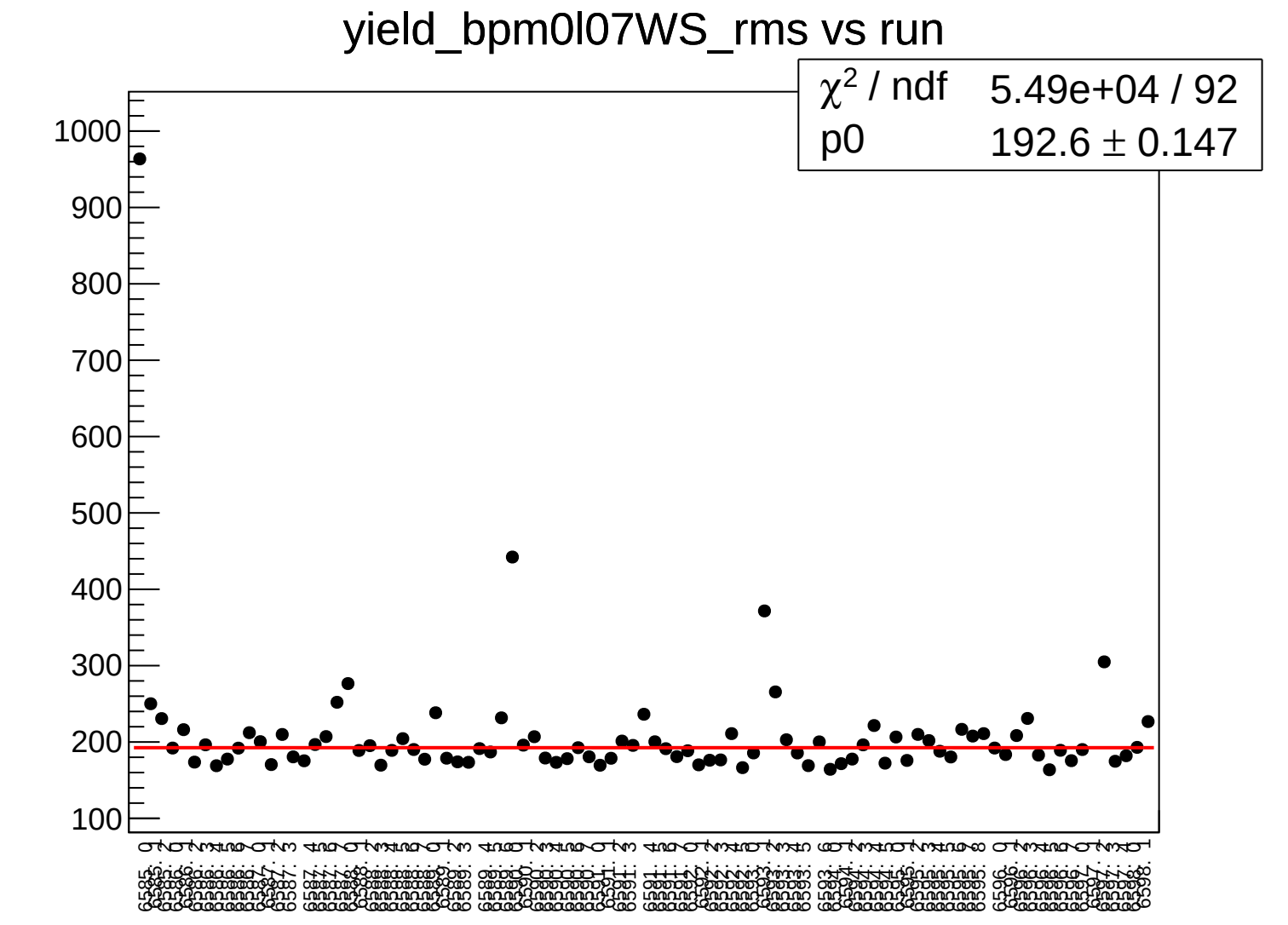

yield_bpm0l05WS_rms vs run
χ² / ndf 2.515e+04 / 92
p0 169.3 ± 0.1281
350
300
250
200
150

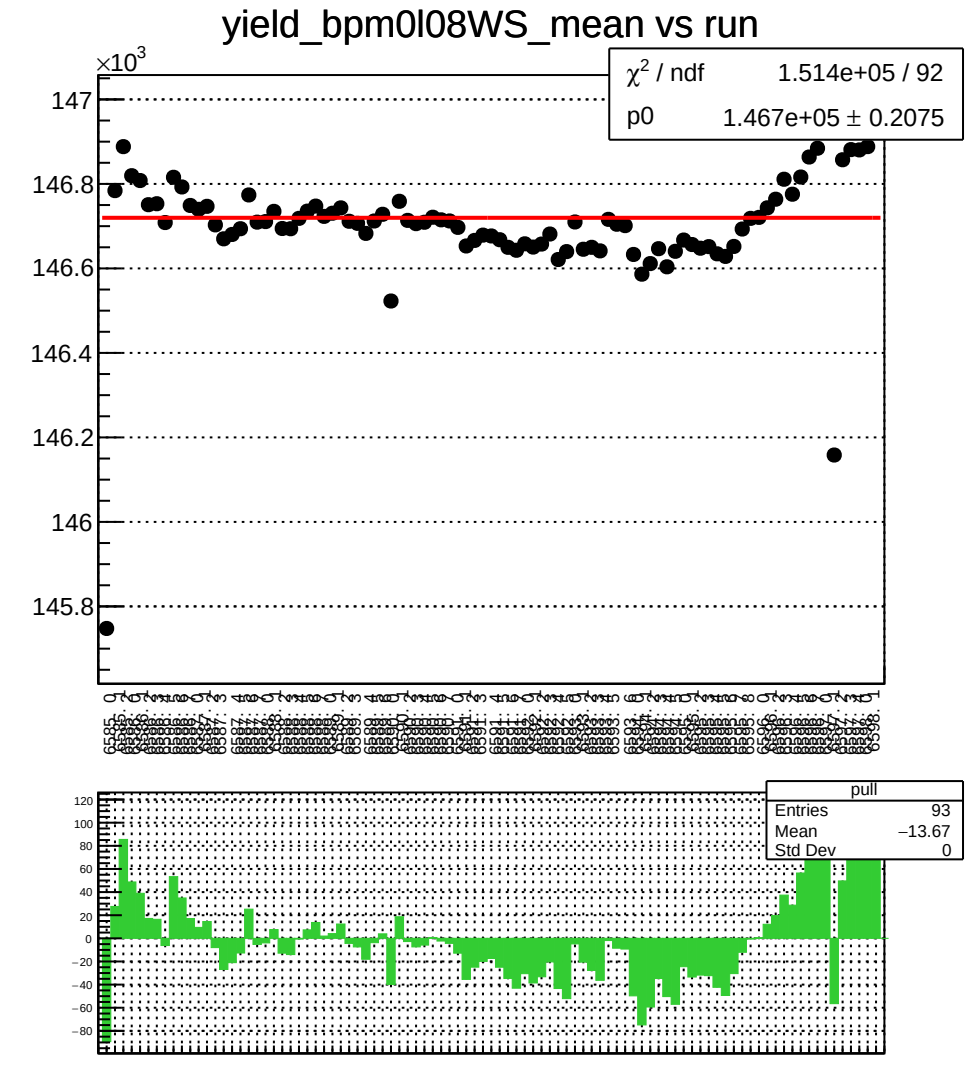

yield_bpm0l06WS_mean vs run
×10^3
130.05
130
129.95
129.9
129.85
χ² / ndf 7.325e+04 / 92
p0 1.299e+05 ± 0.1761
pull
Entries 93
Mean 219.3
Std Dev 0
80
60
40
20
0
−20
−40
−60

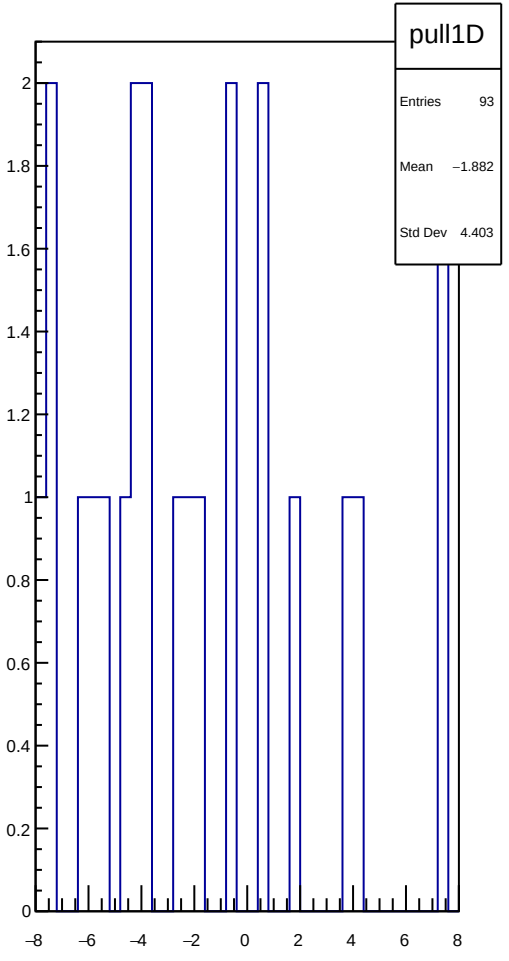

pull1D
Entries 93
Mean 0.6795
Std Dev 4.383
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

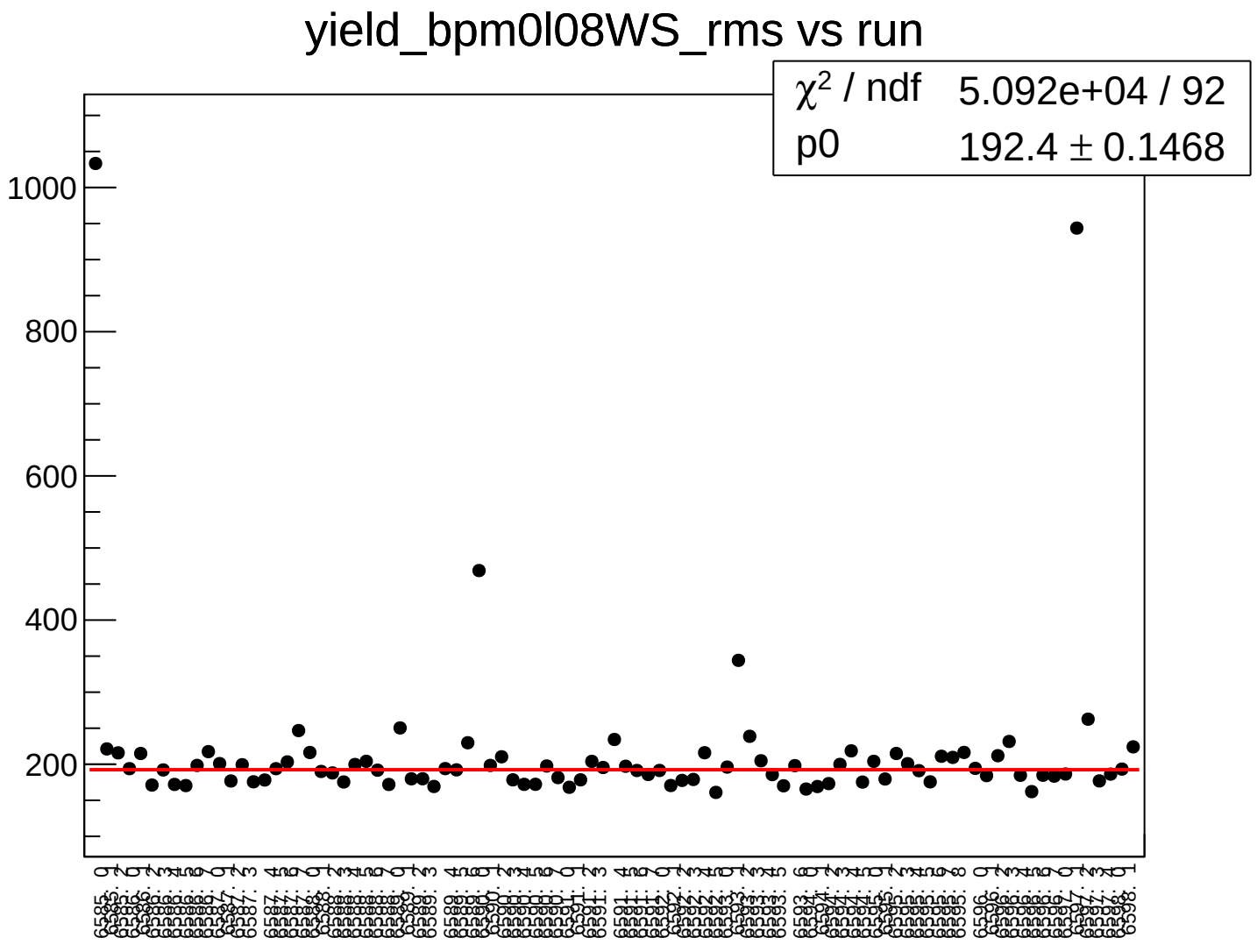

yield_bpm0l06WS_rms vs run
χ² / ndf 2.046e+04 / 92
p0 164.7 ± 0.1245
320
300
280
260
240
220
200
180
160
140
120

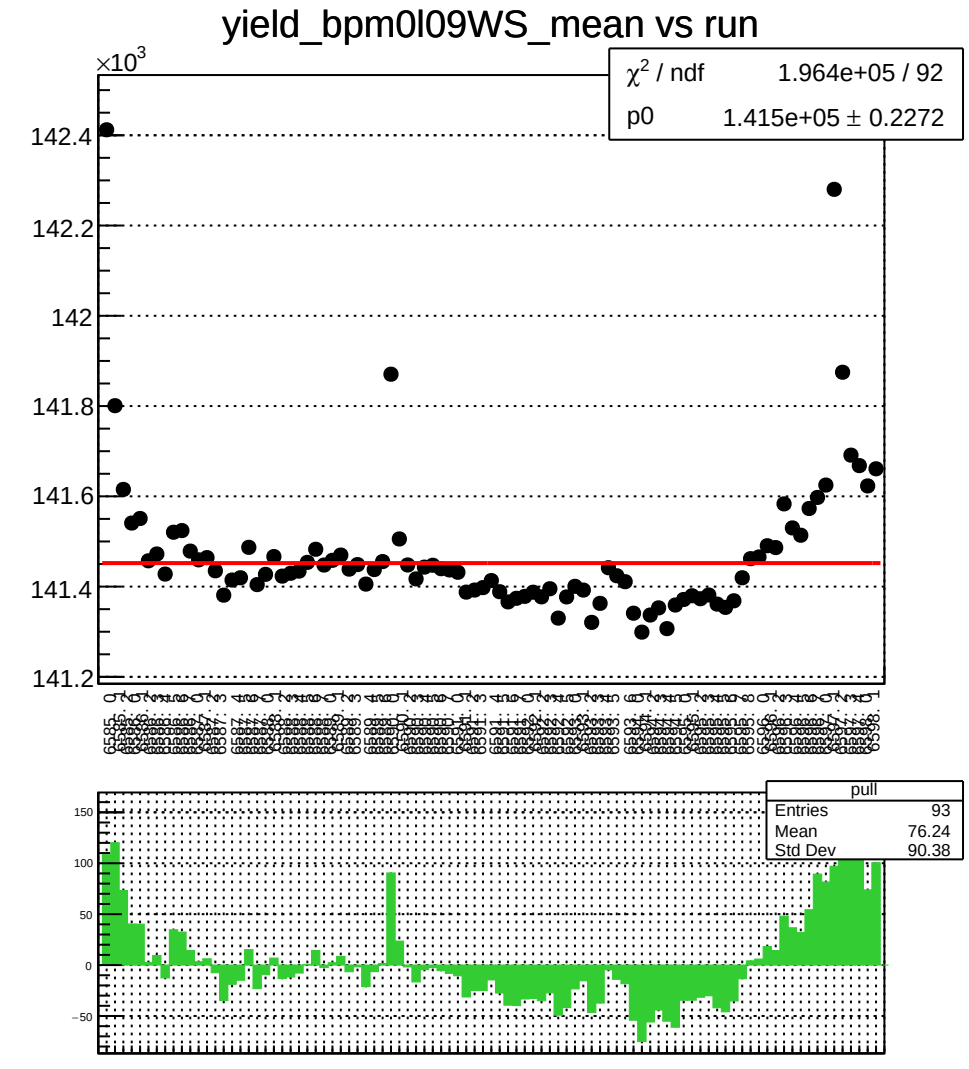

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.026e+05 / 92
p0 1.444e+05 ± 0.2079
144.6
144.4
144.2
144
143.8
143.6
143.4
143.2
pull
Entries 93
Mean −7.678
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 93
Mean −1.534
Std Dev 4.687
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

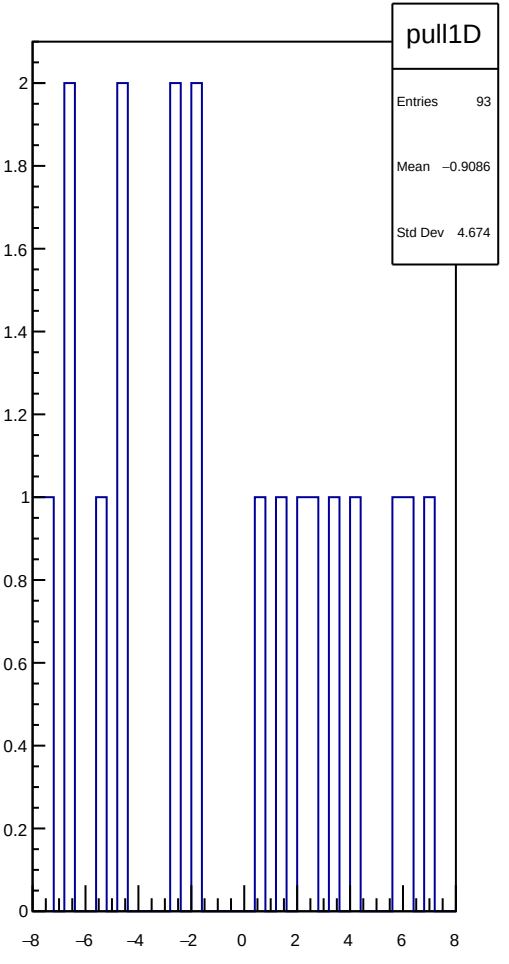

yield_bpm0l07WS_rms vs run
χ^2 / ndf 5.49e+04 / 92
p0 192.6 ± 0.147
1000
900
800
700
600
500
400
300
200
100

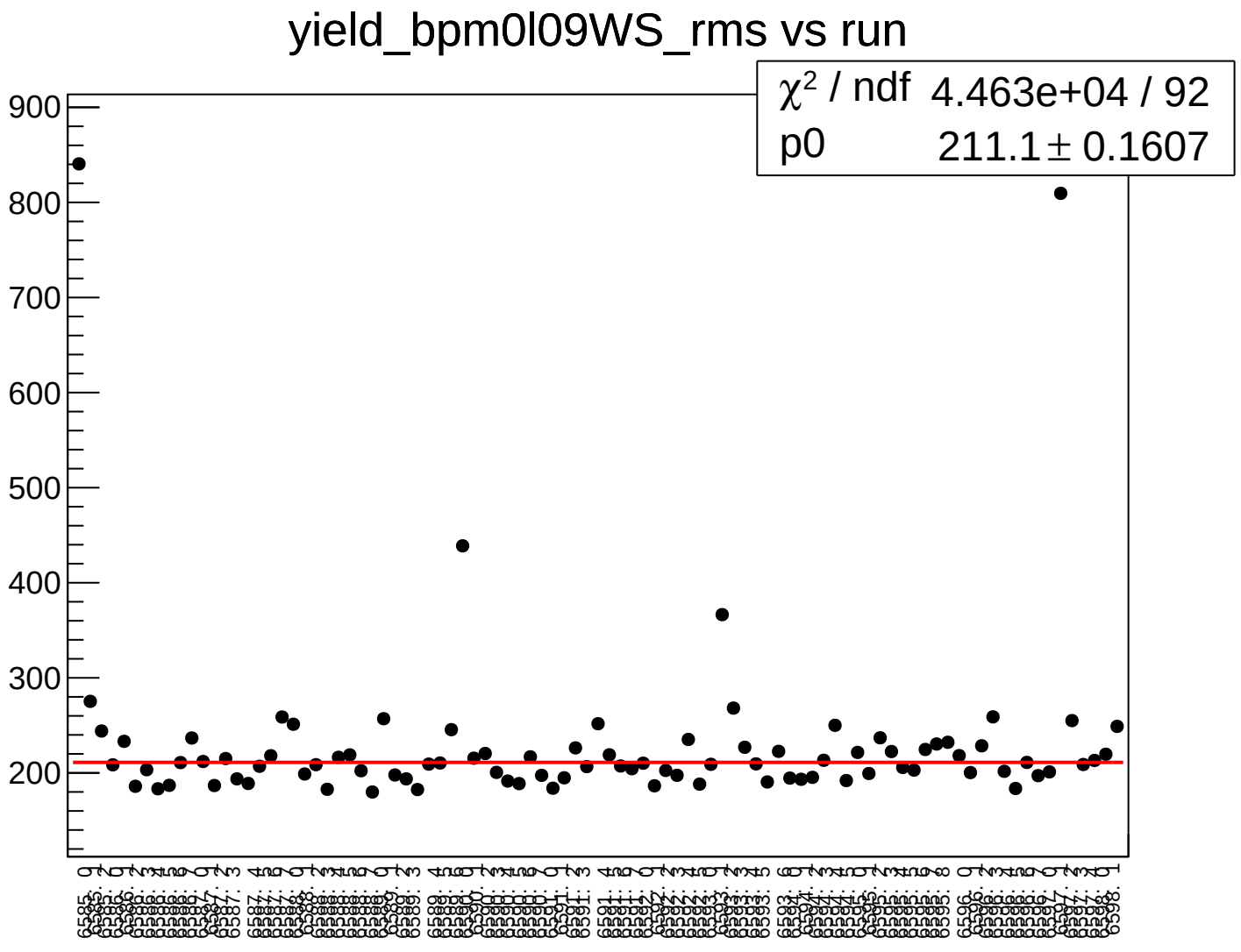

yield_bpm0l08WS_mean vs run
×10^3
147
146.8
146.6
146.4
146.2
146
145.8
χ² / ndf 1.514e+05 / 92
p0 1.467e+05 ± 0.2075
pull
Entries 93
Mean −13.67
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

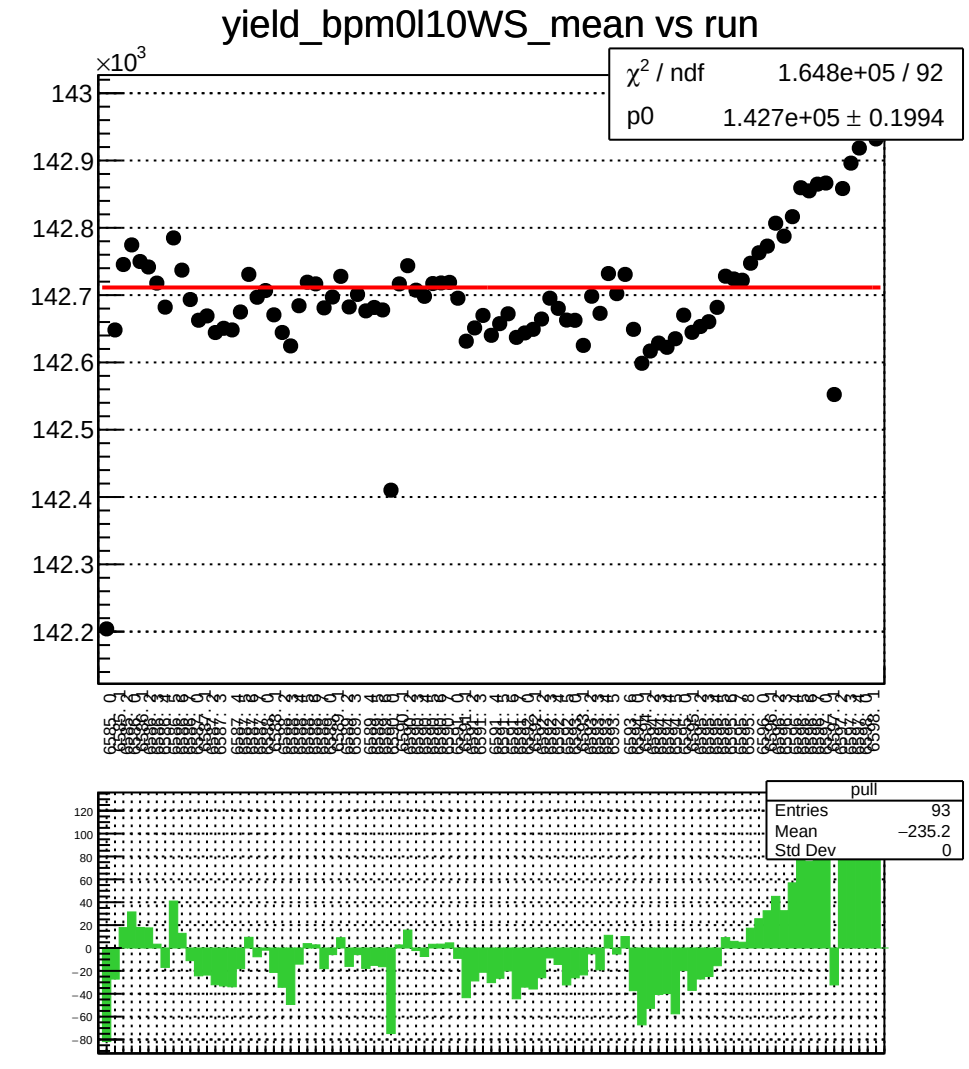

pull1D
Entries 93
Mean −1.882
Std Dev 4.403
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

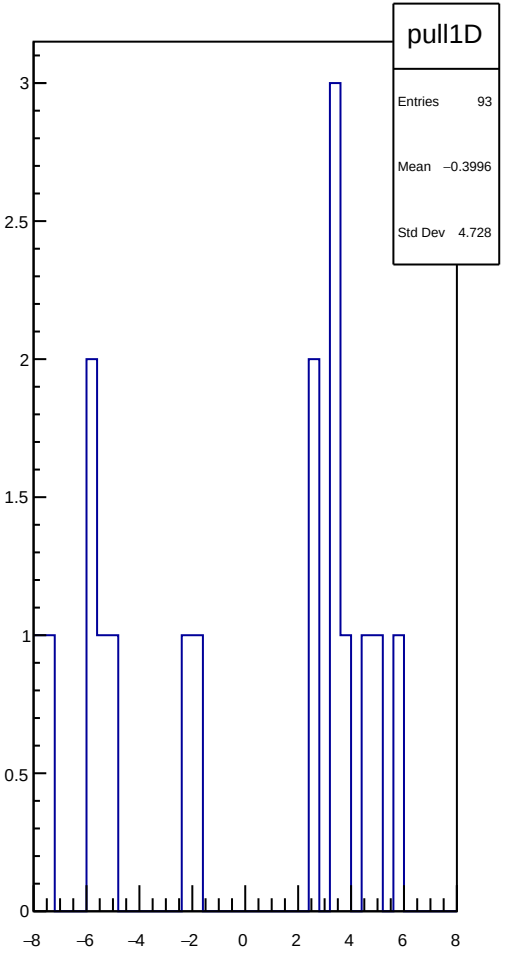

yield_bpm0l08WS_rms vs run
χ² / ndf 5.092e+04 / 92
p0 192.4 ± 0.1468
1000
800
600
400
200

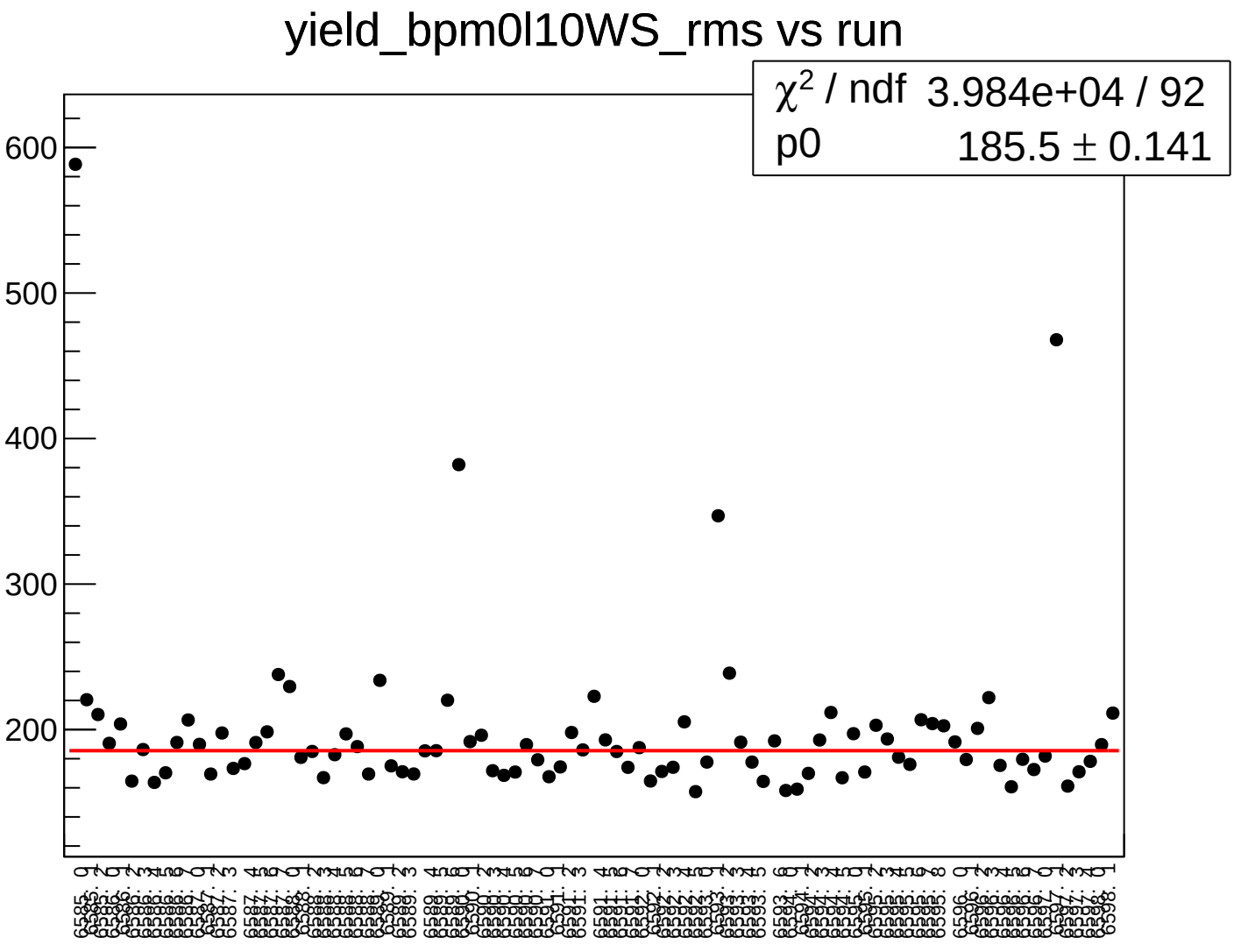

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.964e+05 / 92
p0 1.415e+05 ± 0.2272
142.4
142.2
142
141.8
141.6
141.4
141.2
pull
Entries 93
Mean 76.24
Std Dev 90.38
150
100
50
0
−50

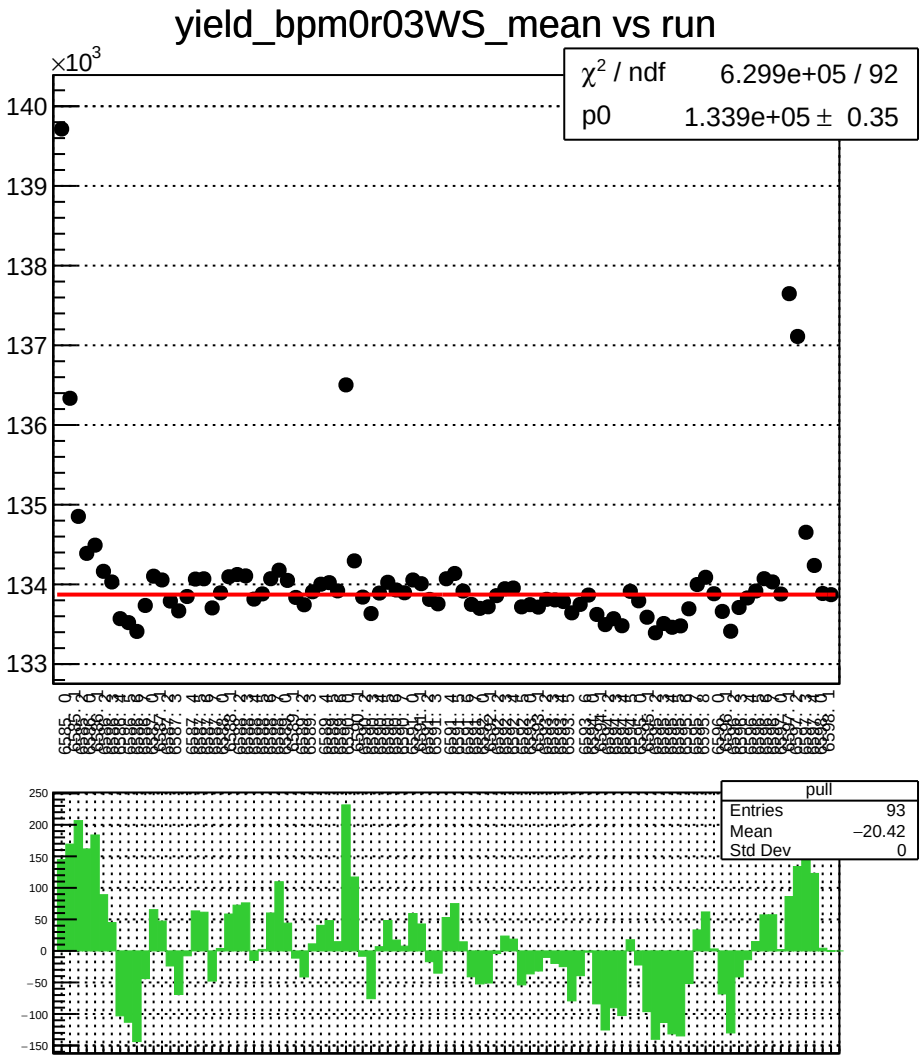

pull1D
Entries 93
Mean −0.9086
Std Dev 4.674
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

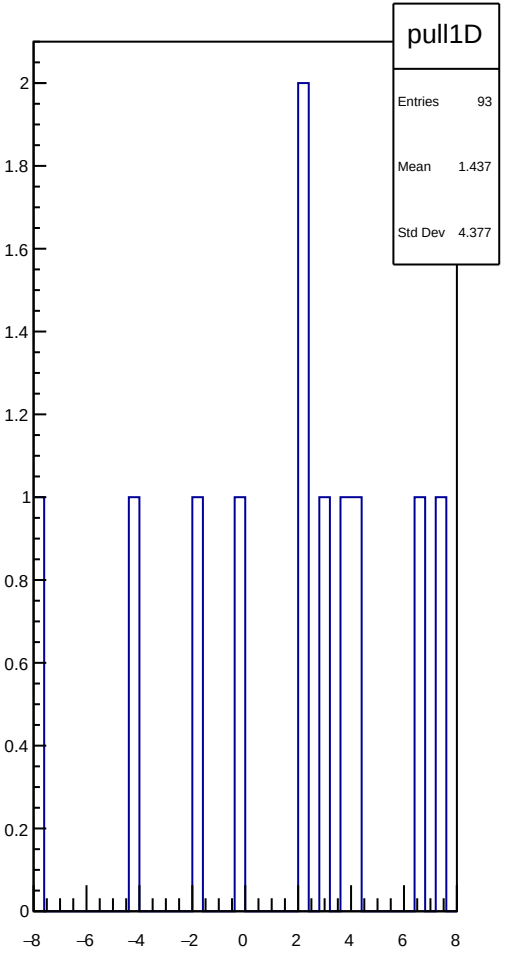

yield_bpm0l09WS_rms vs run
χ² / ndf 4.463e+04 / 92
p0 211.1 ± 0.1607
900
800
700
600
500
400
300
200

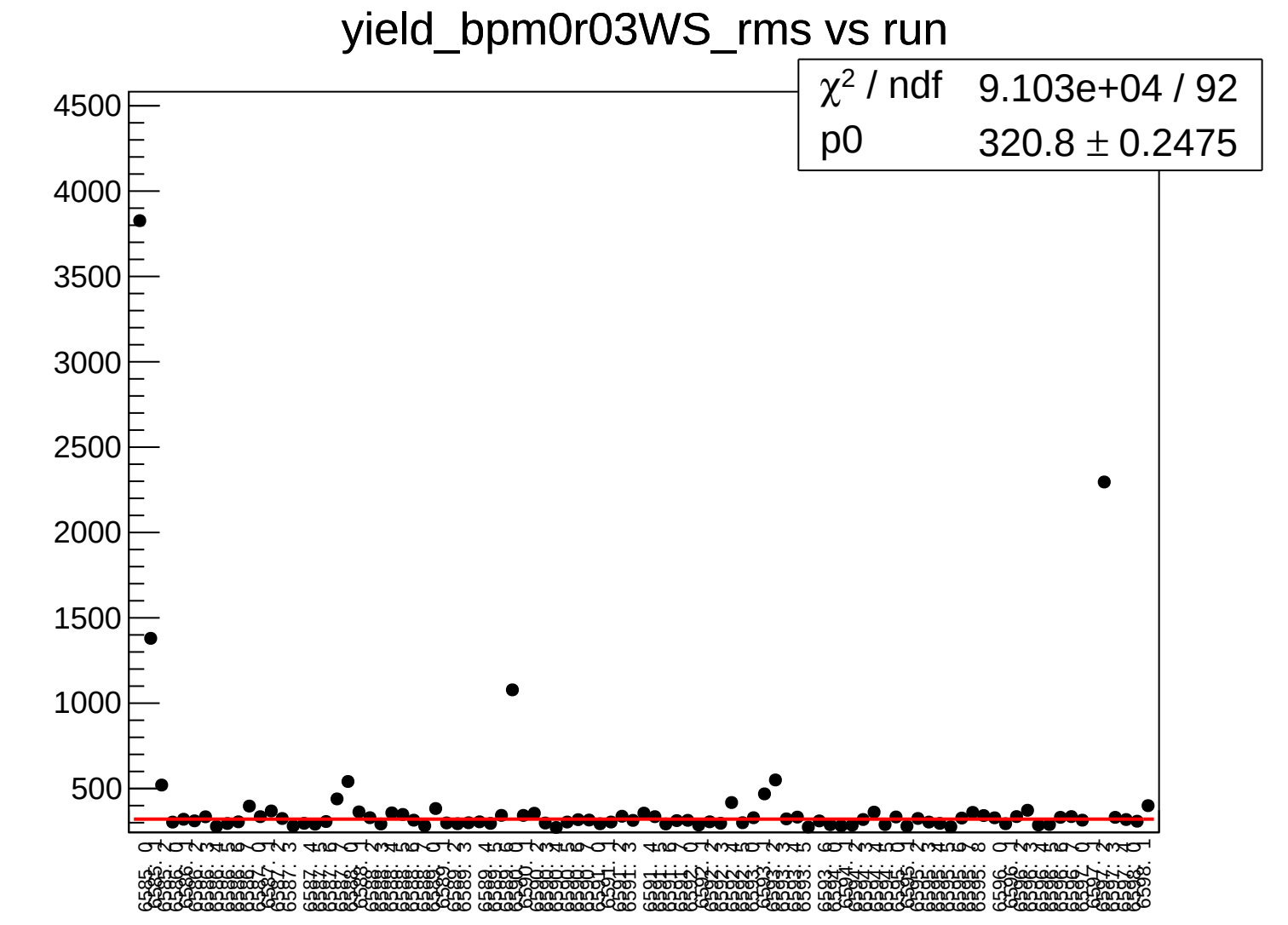

yield_bpm0l10WS_mean vs run
×10^3
χ^2 / ndf 1.648e+05 / 92
p0 1.427e+05 ± 0.1994
143
142.9
142.8
142.7
142.6
142.5
142.4
142.3
142.2
pull
Entries 93
Mean −235.2
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

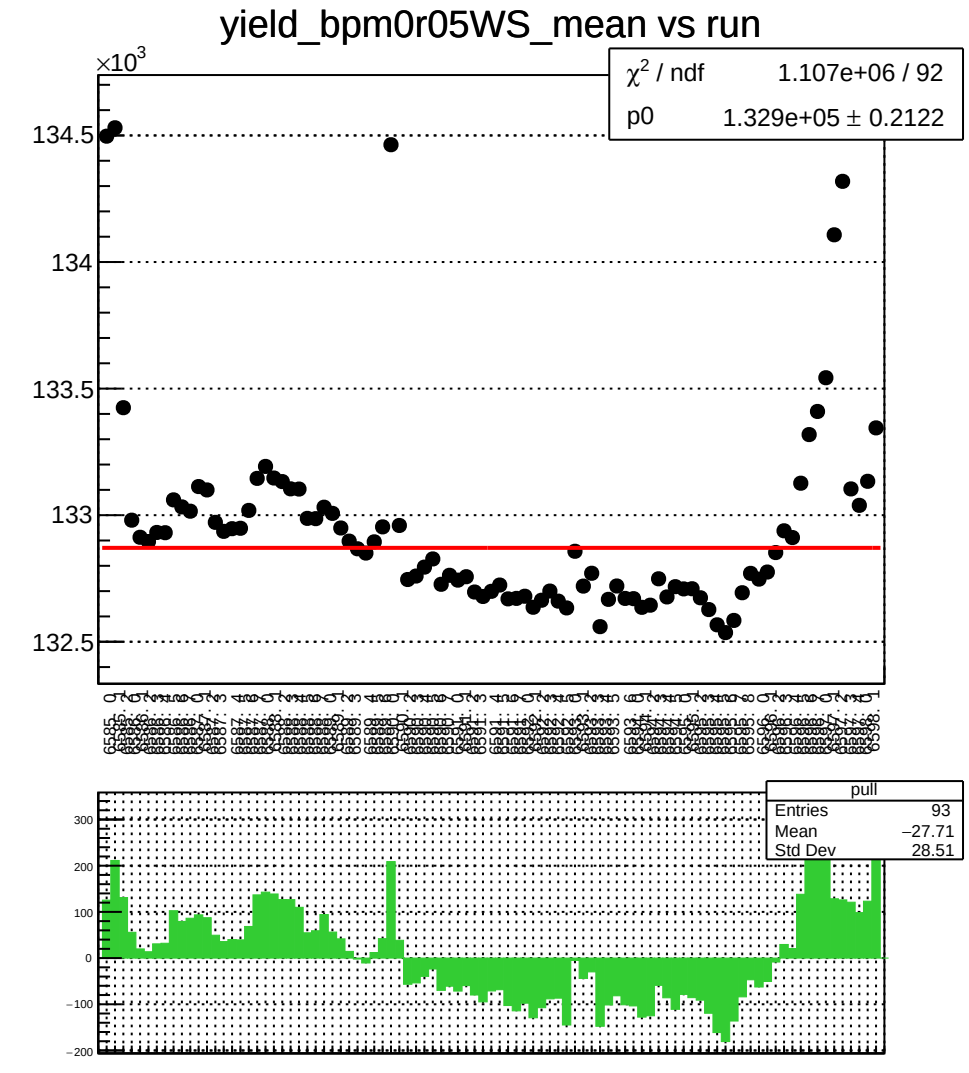

pull1D
Entries 93
Mean −0.3996
Std Dev 4.728
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

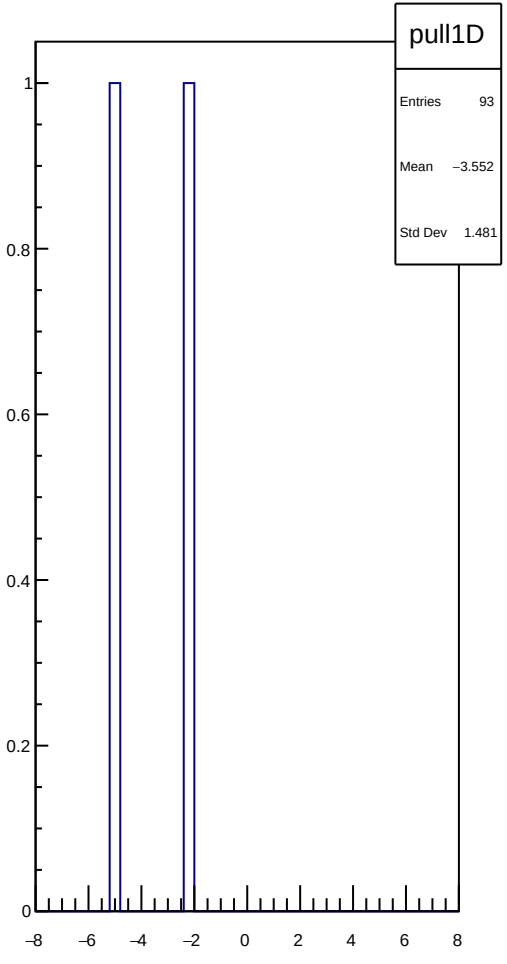

yield_bpm0l10WS_rms vs run
χ^2 / ndf 3.984e+04 / 92
p0 185.5 ± 0.141
600
500
400
300
200

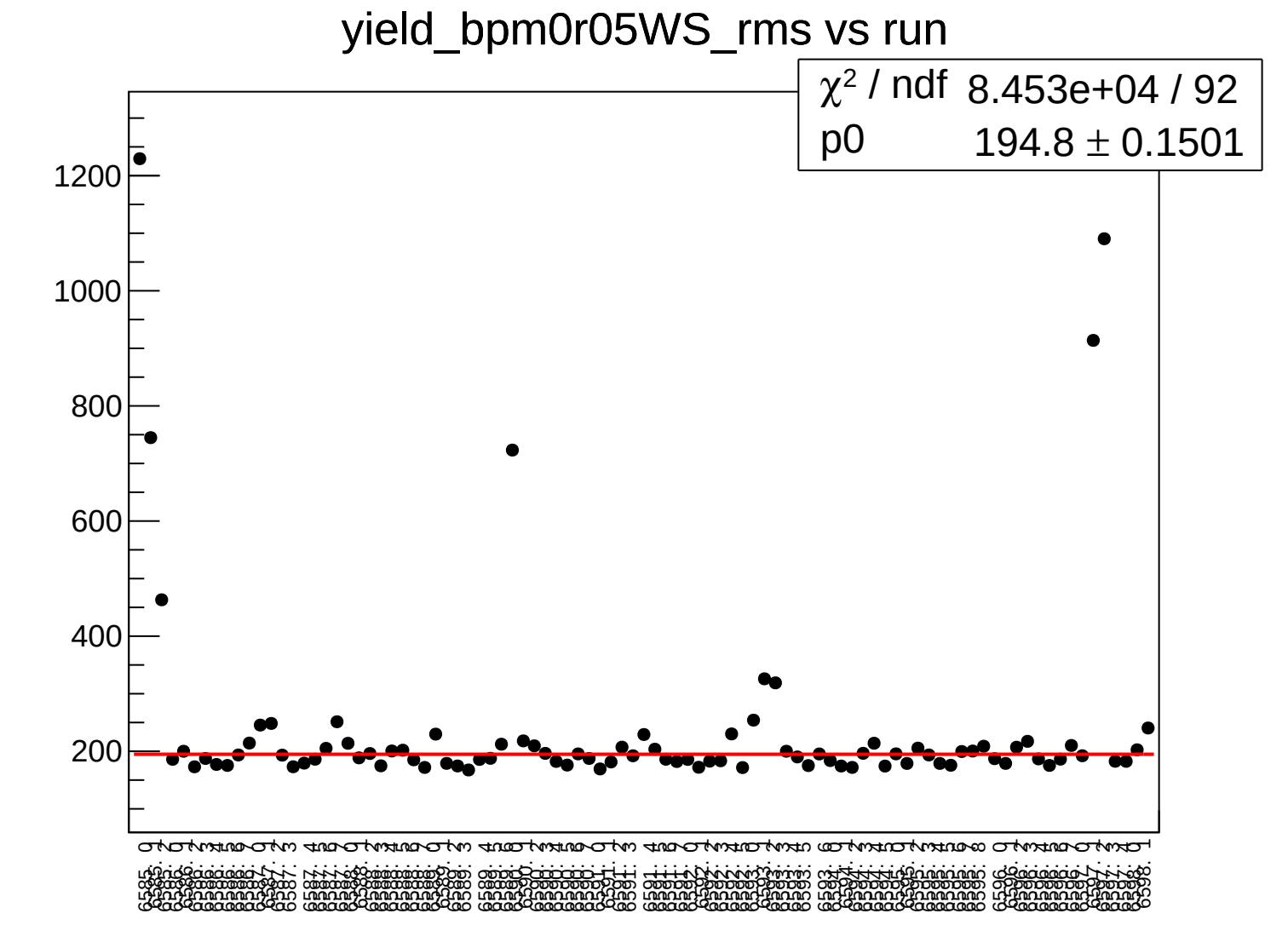

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 6.299e+05 / 92
p0 1.339e+05 ± 0.35
140
139
138
137
136
135
134
133
pull
Entries 93
Mean −20.42
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

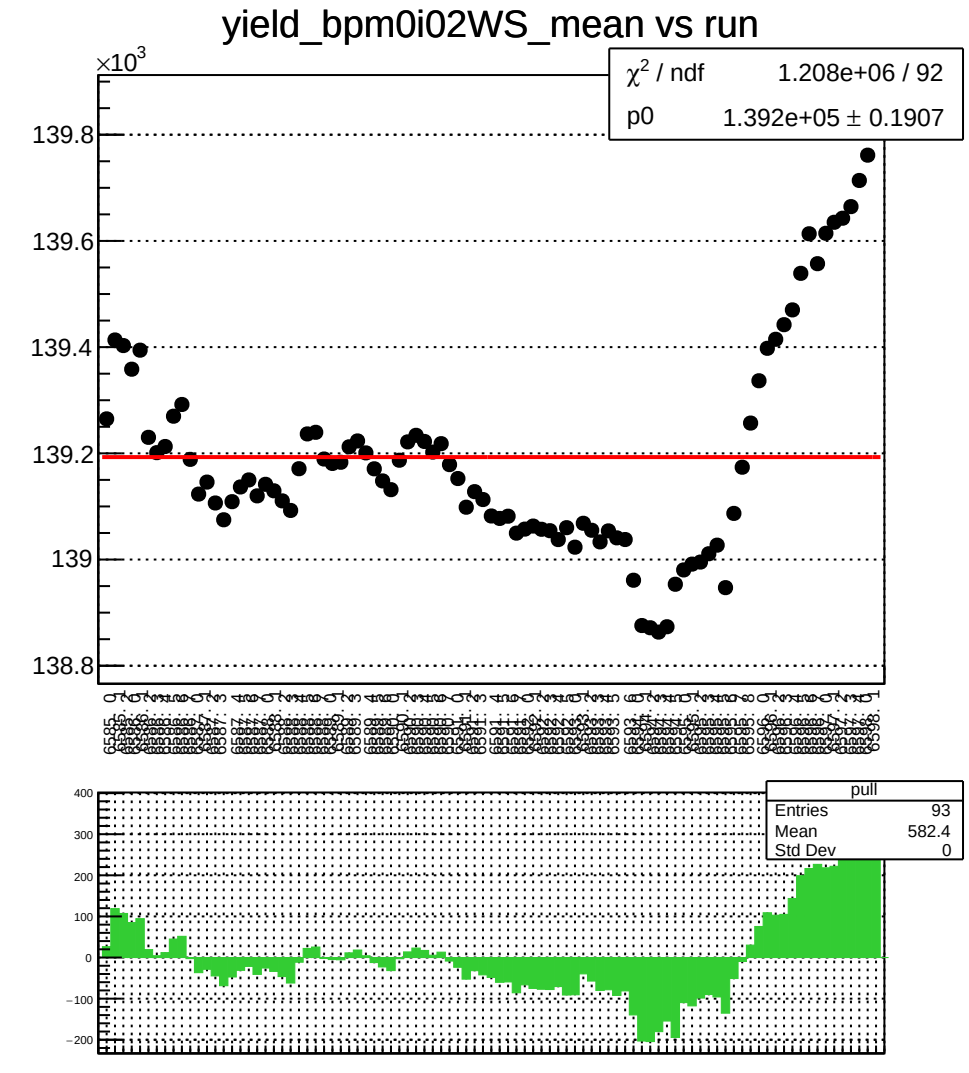

pull1D
Entries 93
Mean 1.437
Std Dev 4.377
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

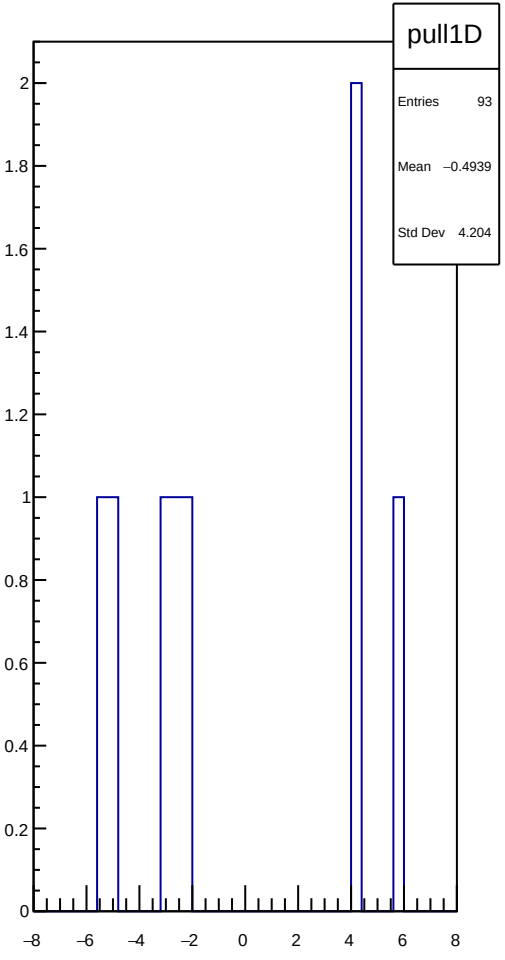

yield_bpm0r03WS_rms vs run
χ^2 / ndf 9.103e+04 / 92
p0 320.8 ± 0.2475
4500
4000
3500
3000
2500
2000
1500
1000
500

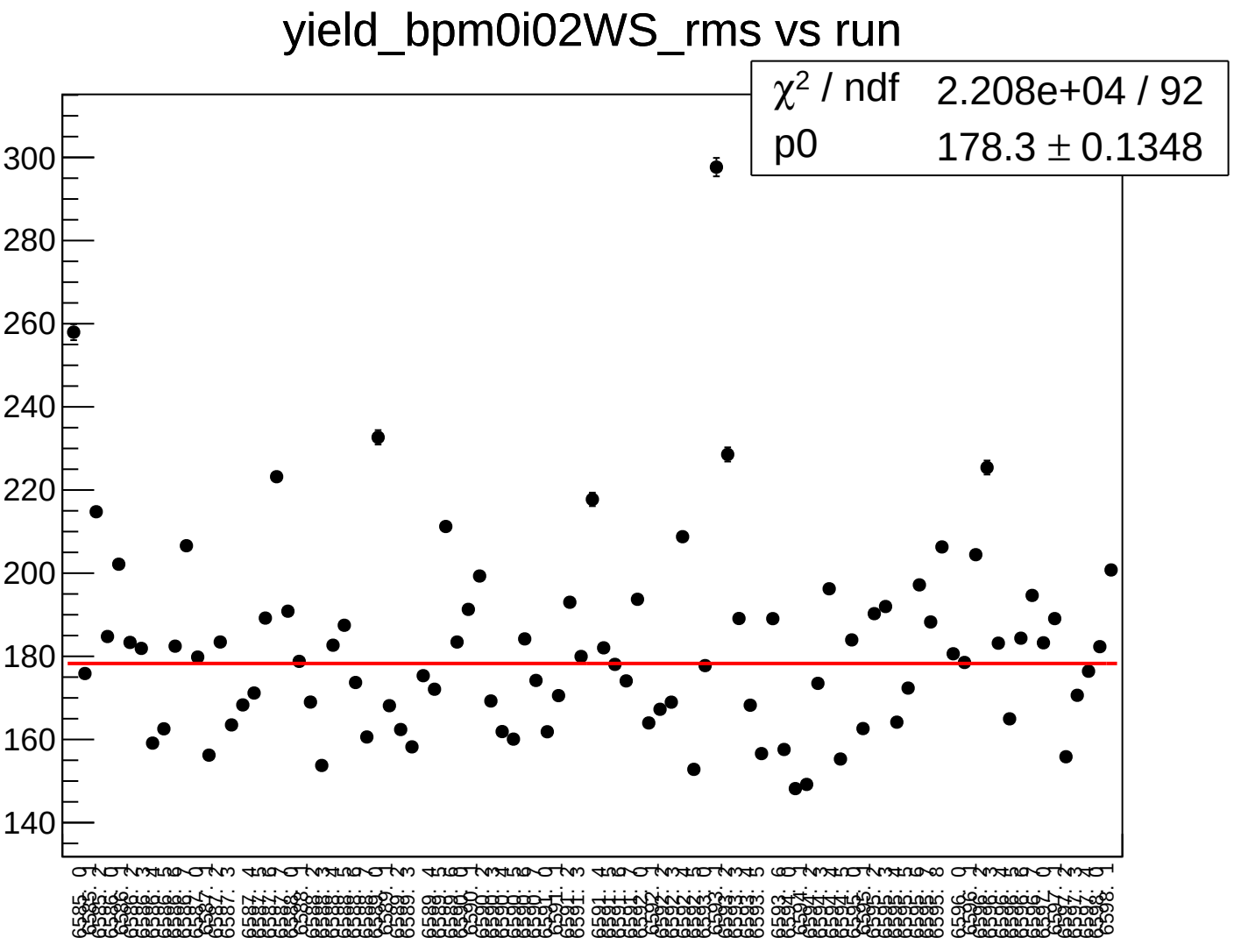

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.107e+06 / 92
p0 1.329e+05 ± 0.2122
134.5
134
133.5
133
132.5
pull
Entries 93
Mean −27.71
Std Dev 28.51
300
200
100
0
−100
−200

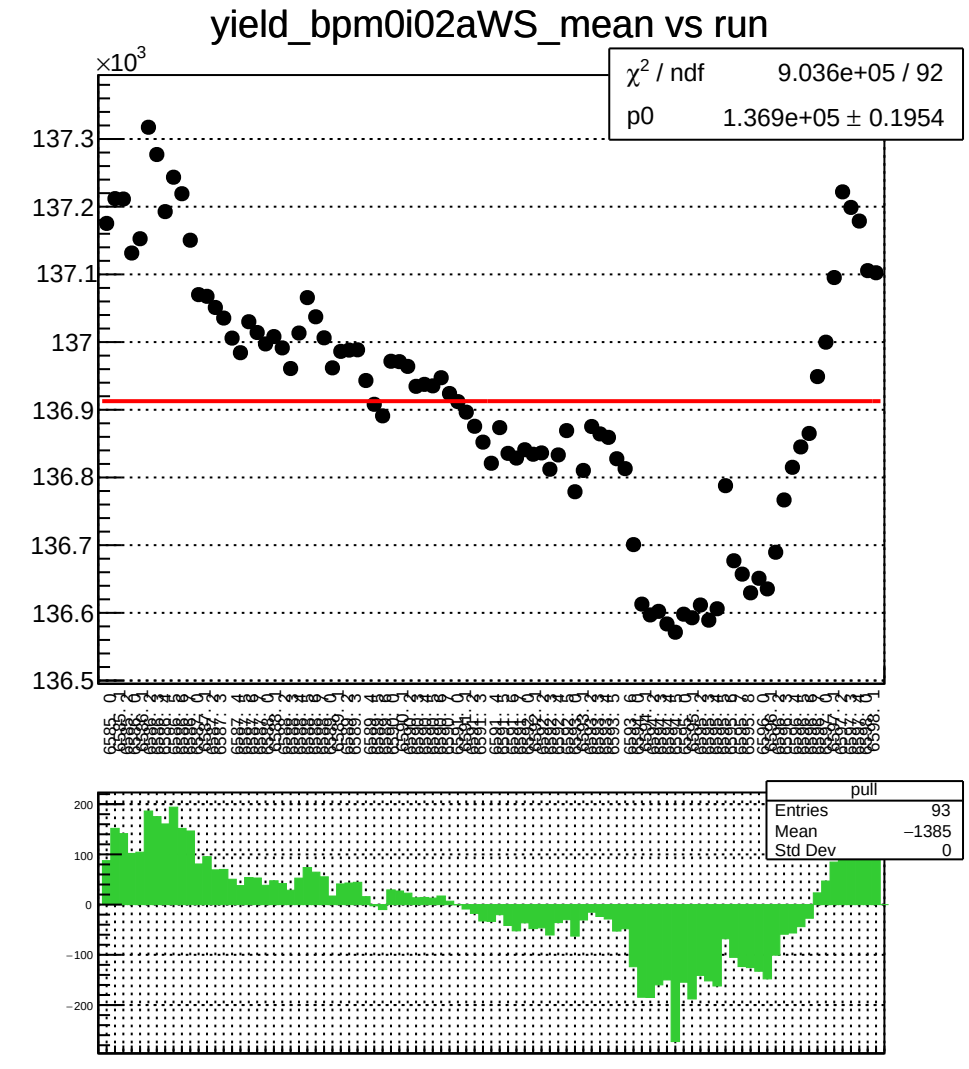

pull1D
Entries 93
Mean −3.552
Std Dev 1.481
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

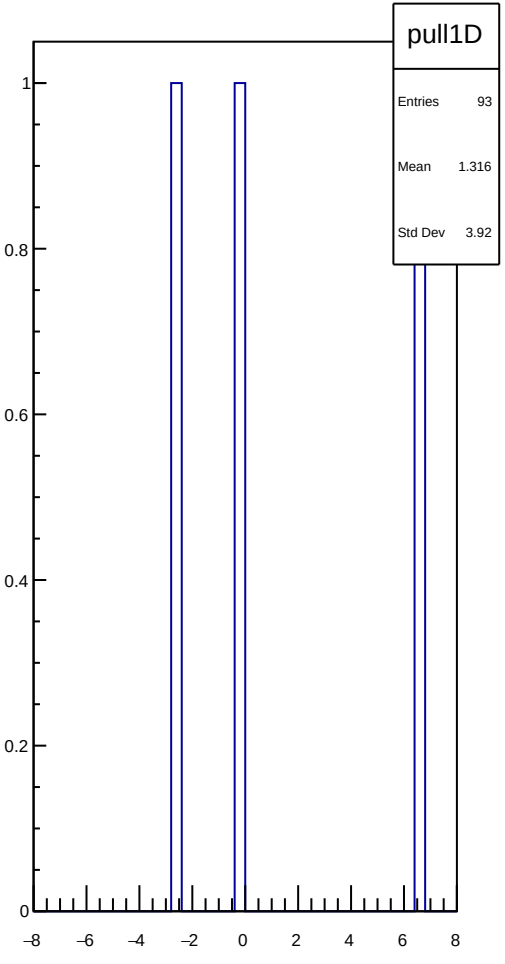

yield_bpm0r05WS_rms vs run
χ² / ndf 8.453e+04 / 92
p0 194.8 ± 0.1501
1200
1000
800
600
400
200

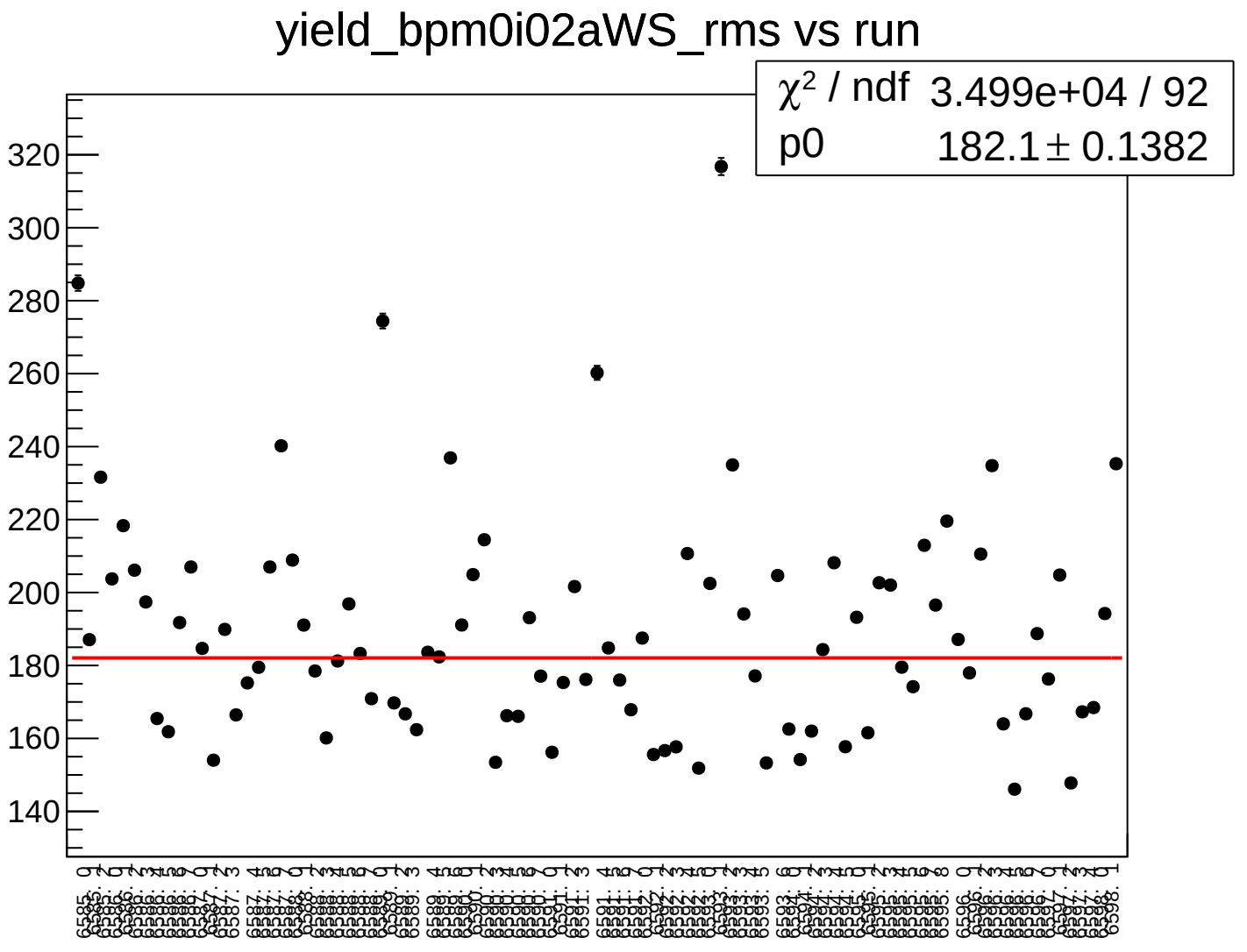

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.208e+06 / 92
p0 1.392e+05 ± 0.1907
139.8
139.6
139.4
139.2
139
138.8
pull
Entries 93
Mean 582.4
Std Dev 0
400
300
200
100
0
−100
−200

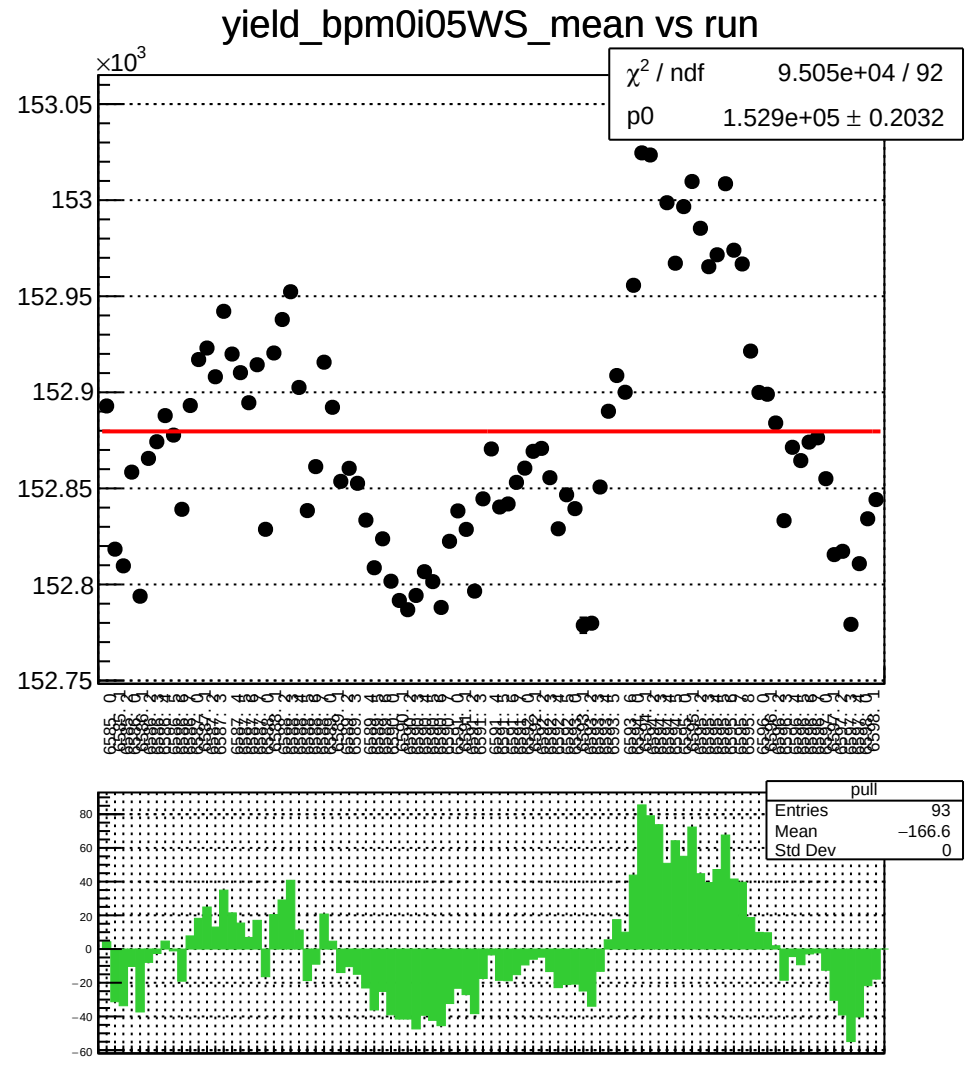

pull1D
Entries 93
Mean −0.4939
Std Dev 4.204
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

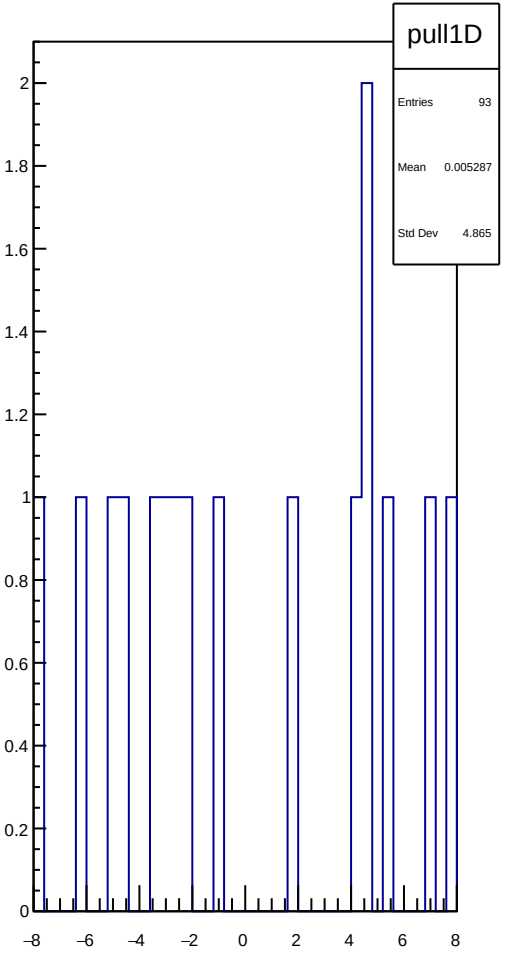

yield_bpm0i02WS_rms vs run
χ² / ndf 2.208e+04 / 92
p0 178.3 ± 0.1348
300
280
260
240
220
200
180
160
140

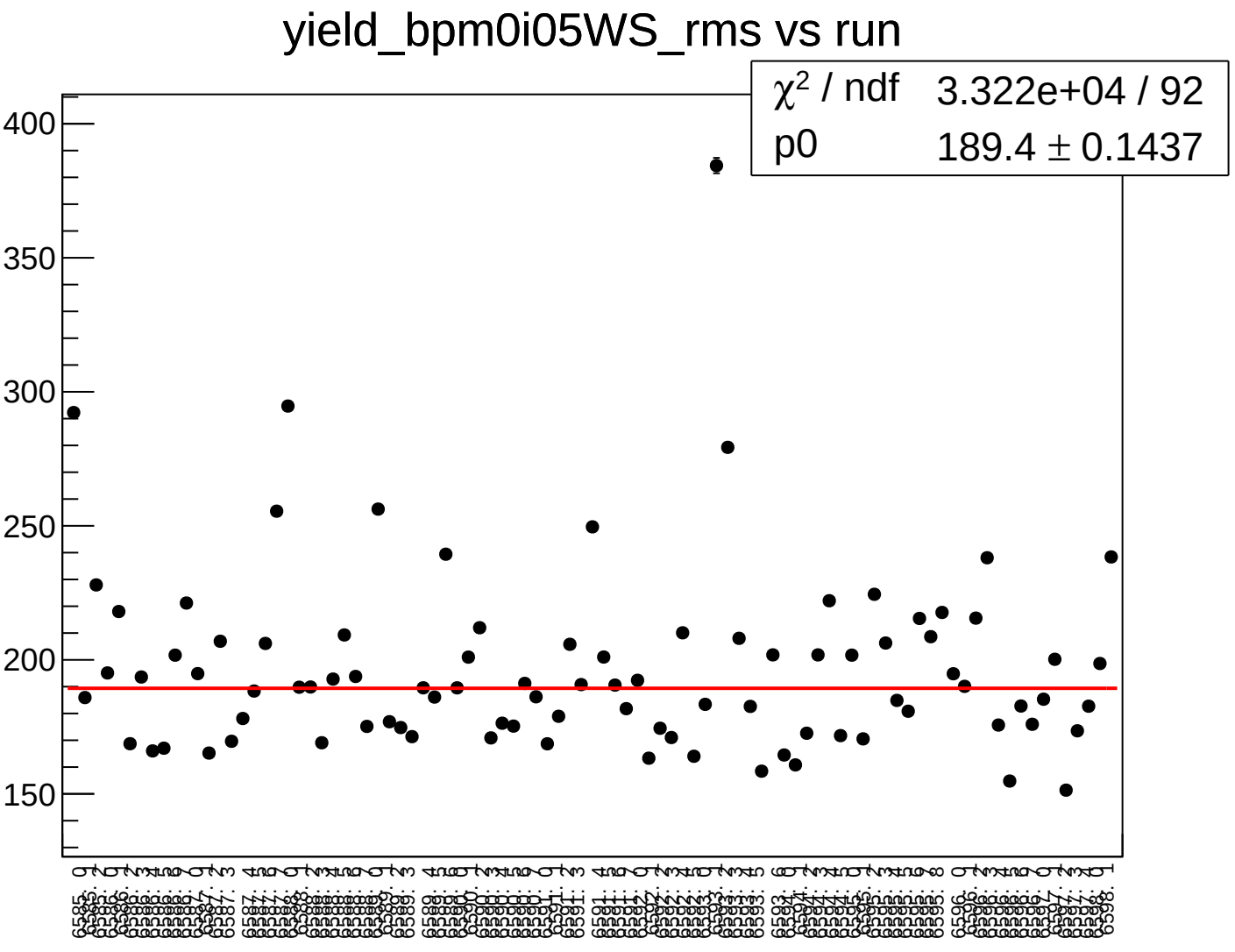

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 9.036e+05 / 92
p0 1.369e+05 ± 0.1954
137.3
137.2
137.1
137
136.9
136.8
136.7
136.6
136.5
pull
Entries 93
Mean −1385
Std Dev 0
200
100
0
−100
−200

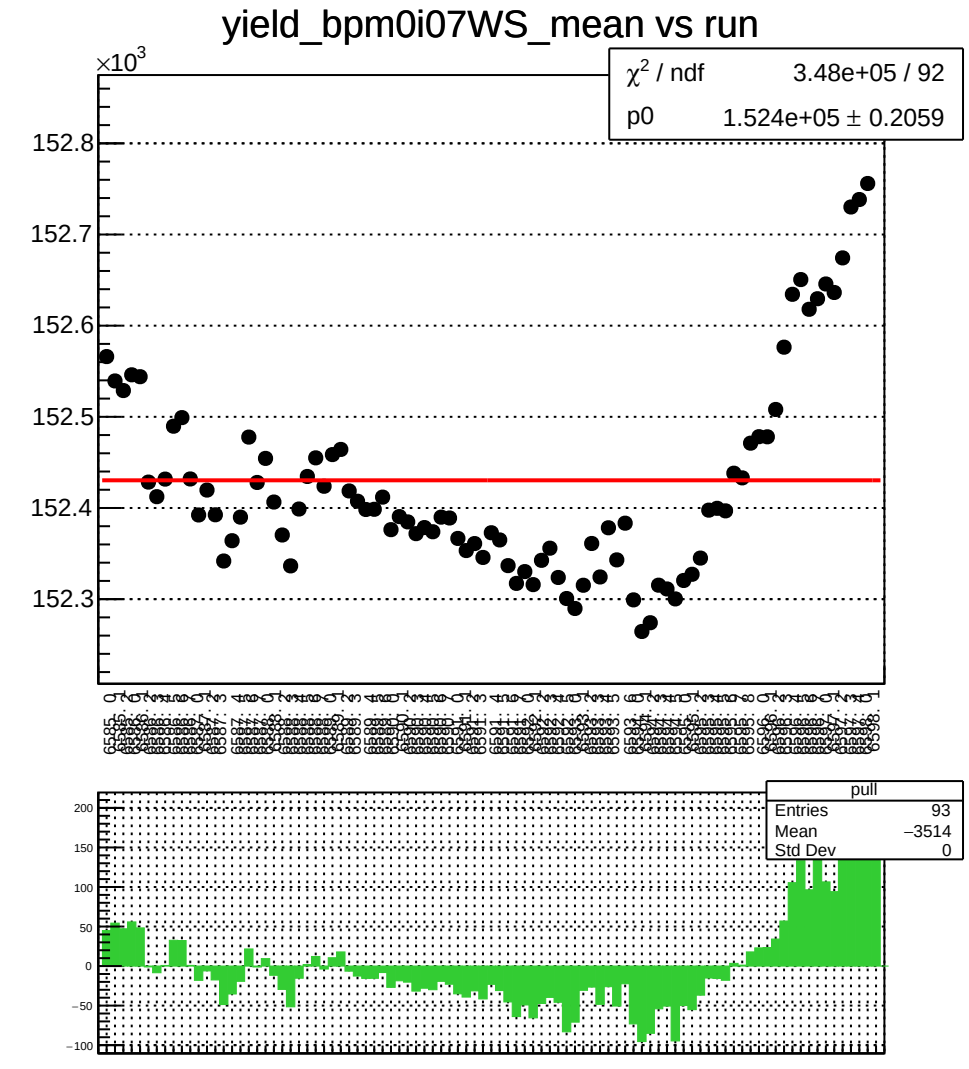

pull1D
Entries 93
Mean 1.316
Std Dev 3.92
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

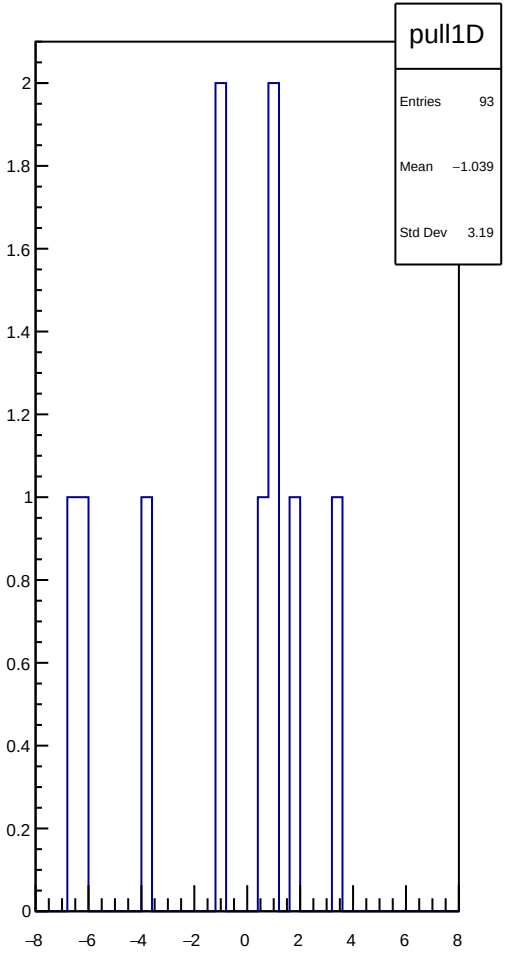

yield_bpm0i02aWS_rms vs run
χ² / ndf 3.499e+04 / 92
p0 182.1 ± 0.1382
320
300
280
260
240
220
200
180
160
140

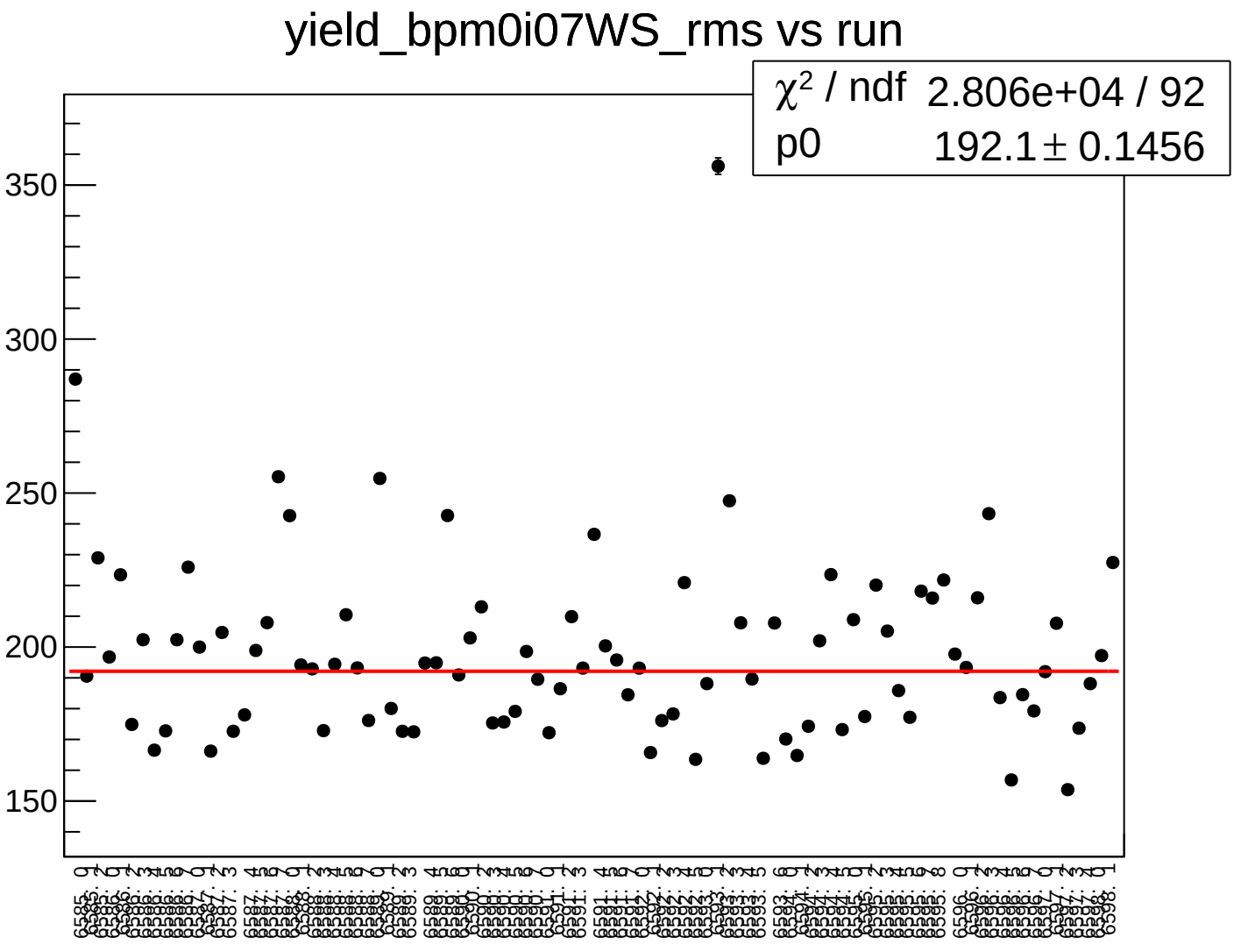

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 9.505e+04 / 92
p0 1.529e+05 ± 0.2032
153.05
153
152.95
152.9
152.85
152.8
152.75
pull
Entries 93
Mean −166.6
Std Dev 0
80
60
40
20
0
−20
−40
−60

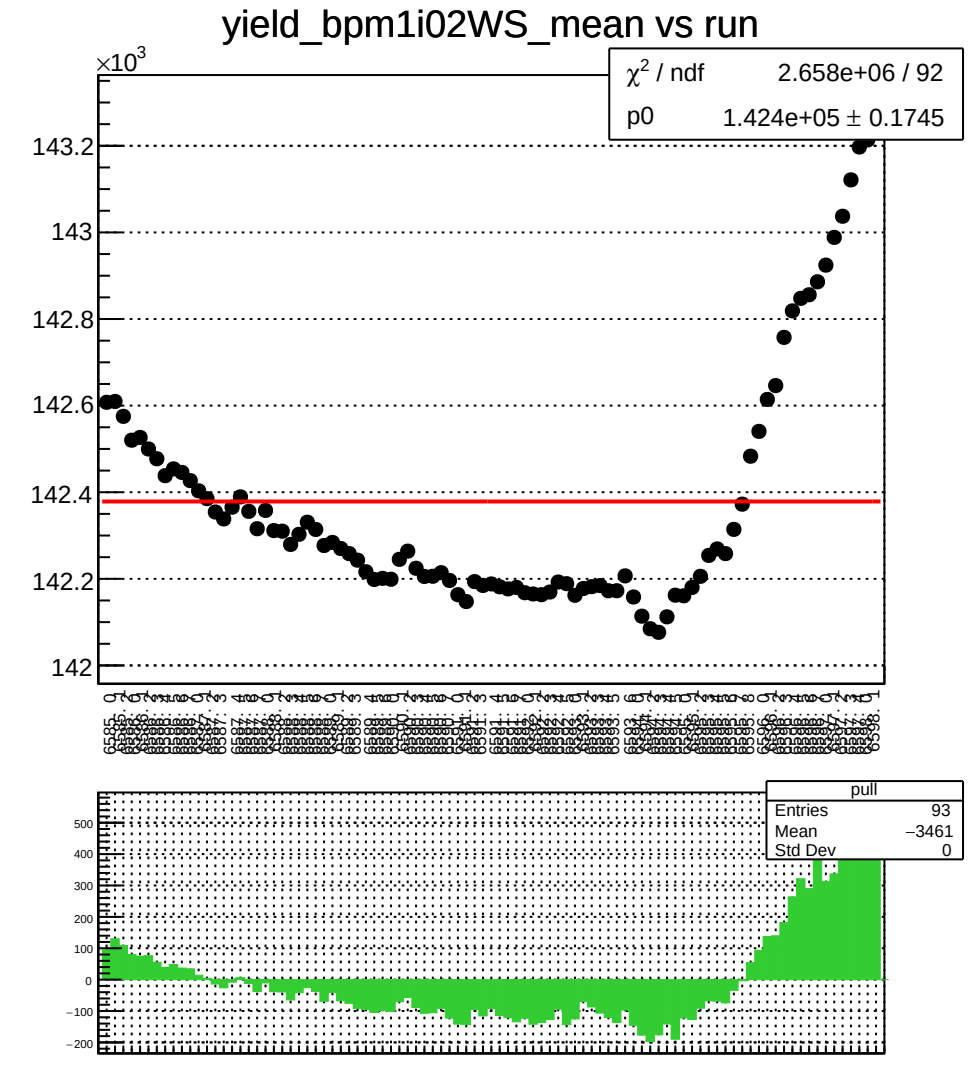

pull1D
Entries 93
Mean 0.005287
Std Dev 4.865
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

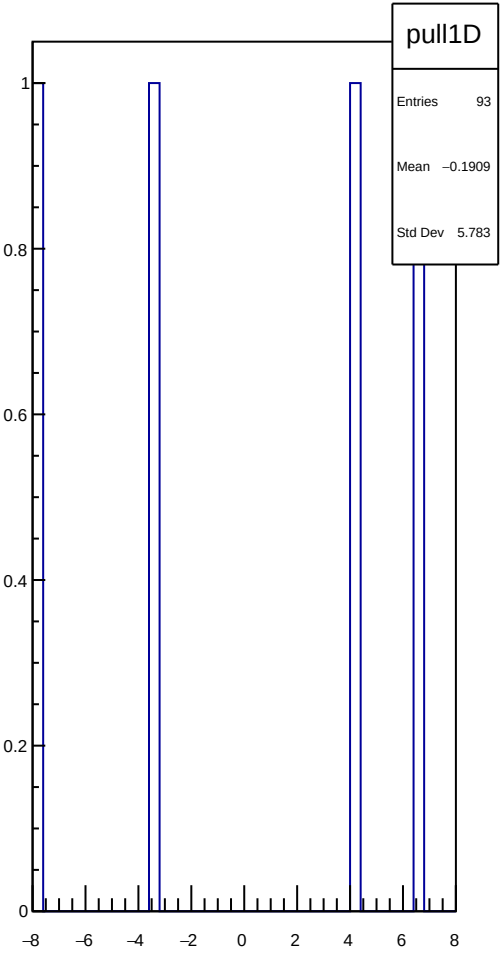

yield_bpm0i05WS_rms vs run
χ² / ndf 3.322e+04 / 92
p0 189.4 ± 0.1437
400
350
300
250
200
150

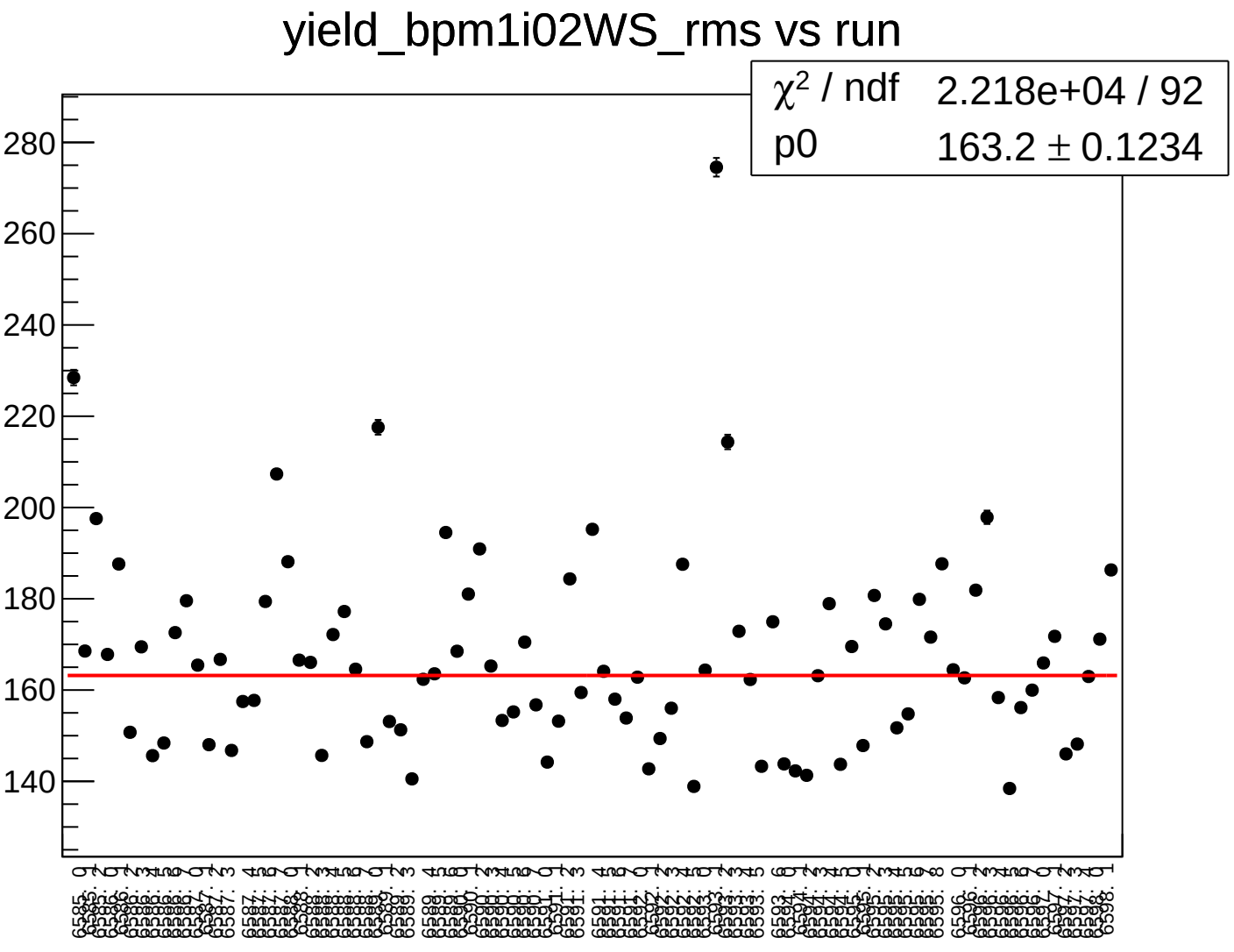

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.48e+05 / 92
p0 1.524e+05 ± 0.2059
152.8
152.7
152.6
152.5
152.4
152.3
pull
Entries 93
Mean −3514
Std Dev 0
200
150
100
50
0
−50
−100

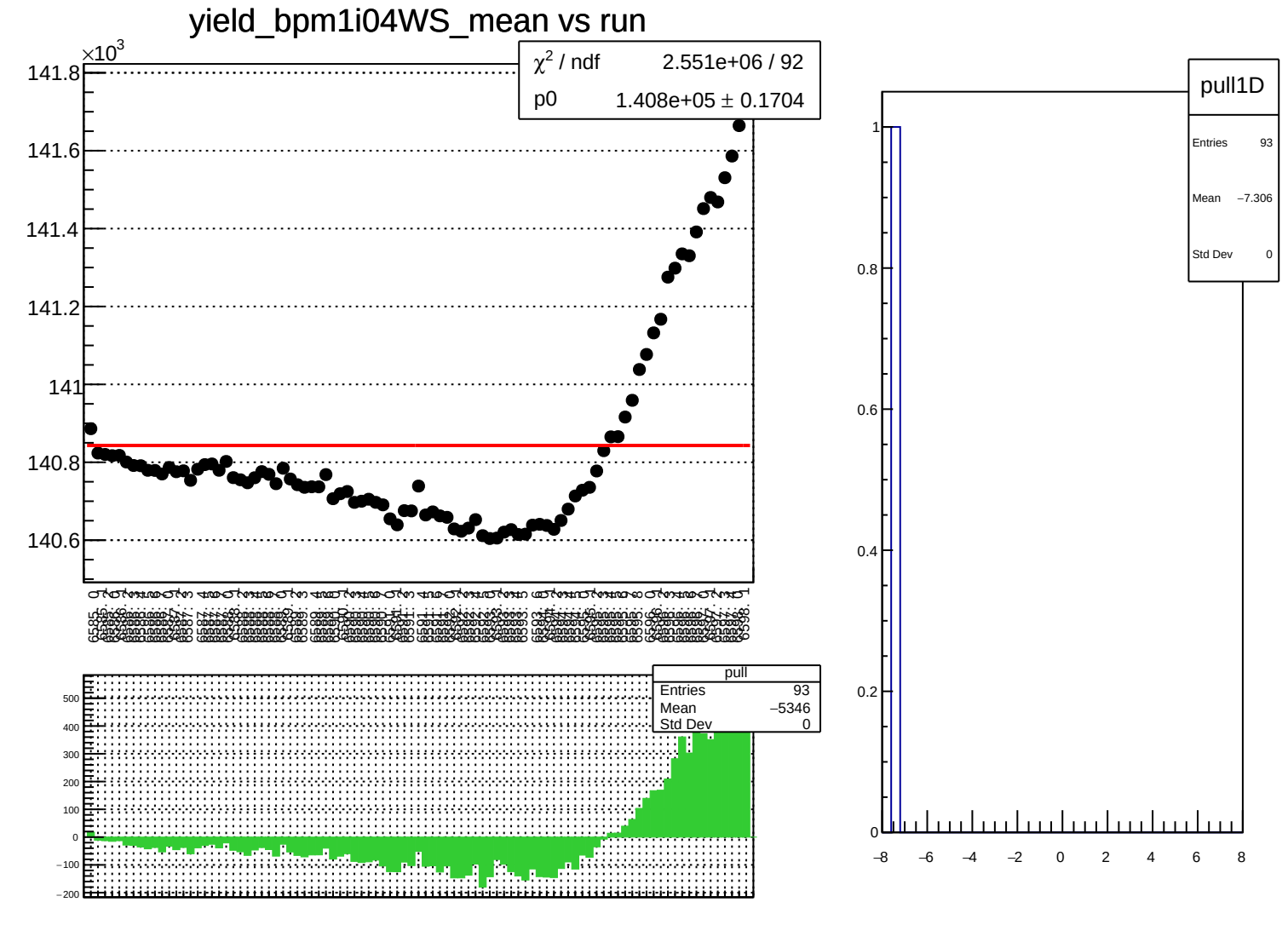

pull1D
Entries 93
Mean −1.039
Std Dev 3.19
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

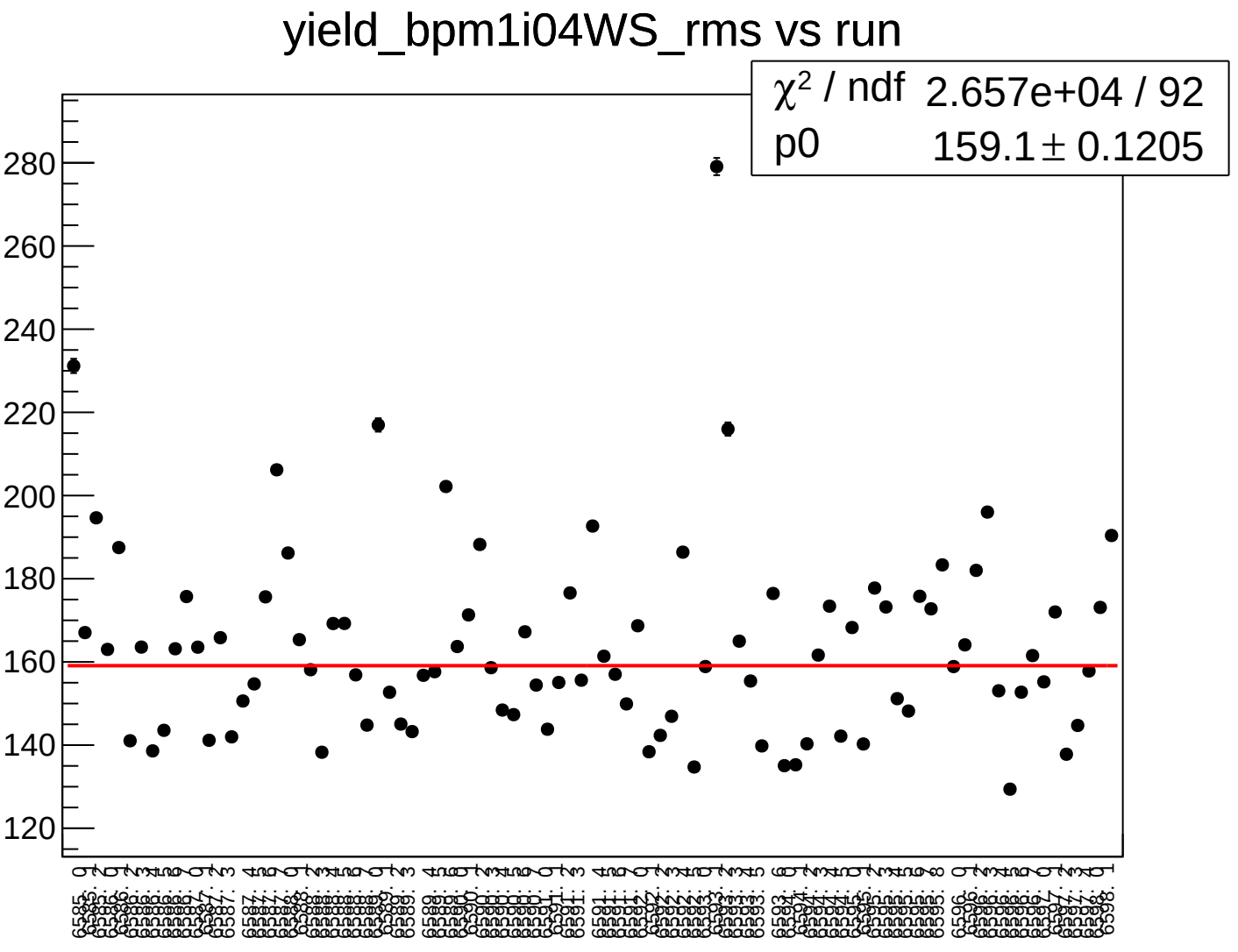

yield_bpm0i07WS_rms vs run
χ² / ndf 2.806e+04 / 92
p0 192.1 ± 0.1456
350
300
250
200
150

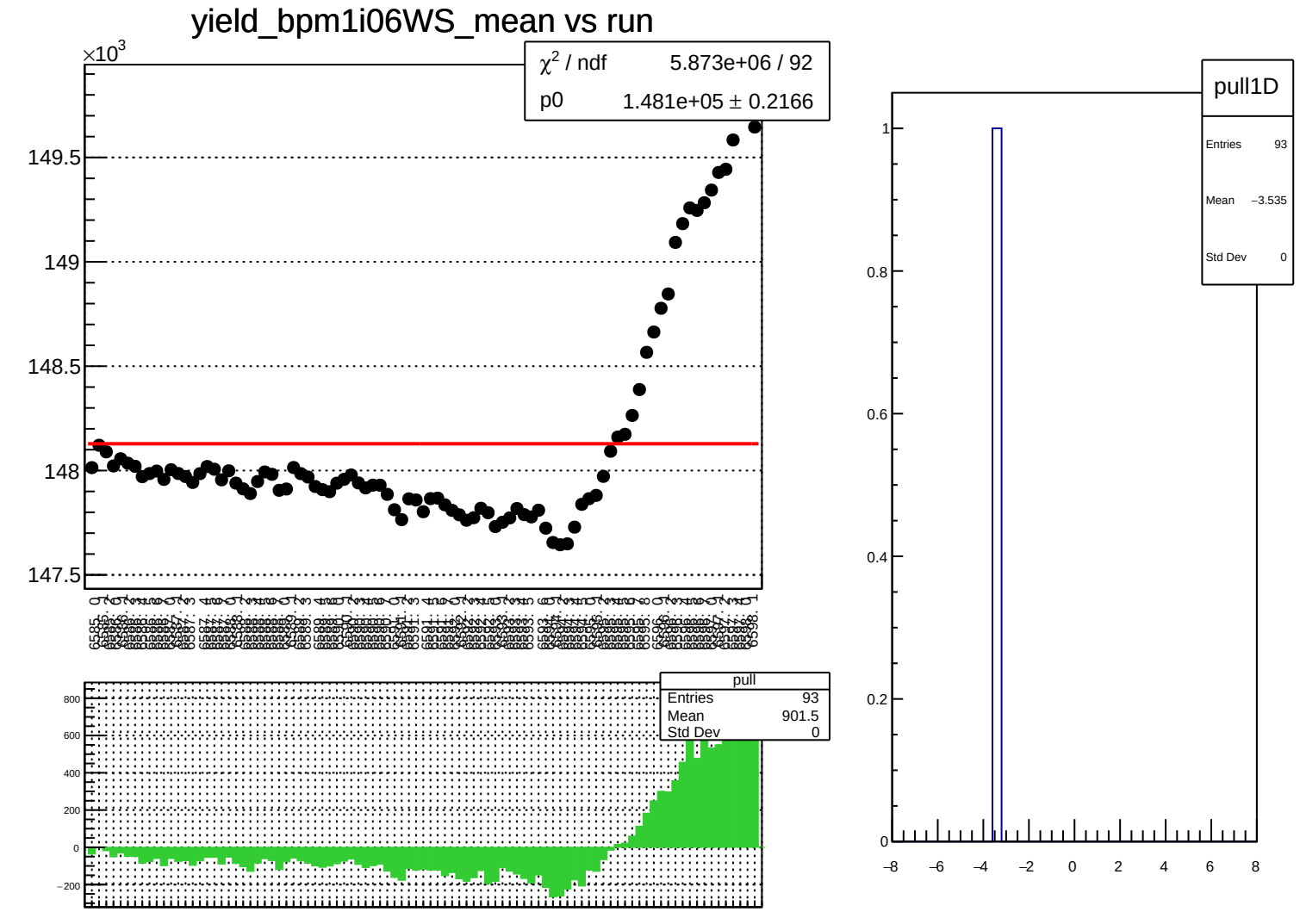

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.658e+06 / 92
p0 1.424e+05 ± 0.1745
143.2
143
142.8
142.6
142.4
142.2
142
pull
Entries 93
Mean −3461
Std Dev 0
500
400
300
200
100
0
−100
−200

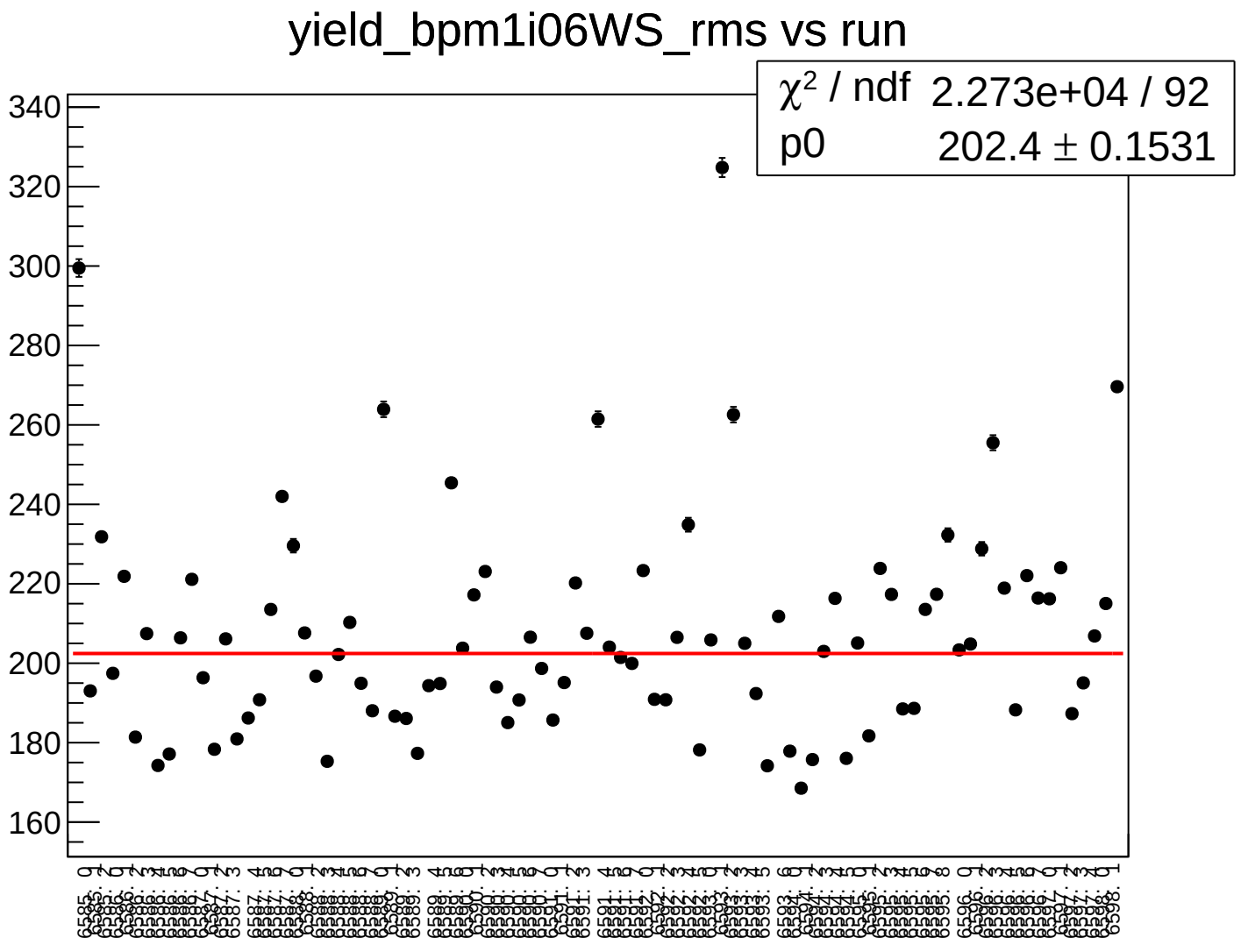

pull1D
Entries 93
Mean −0.1909
Std Dev 5.783
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

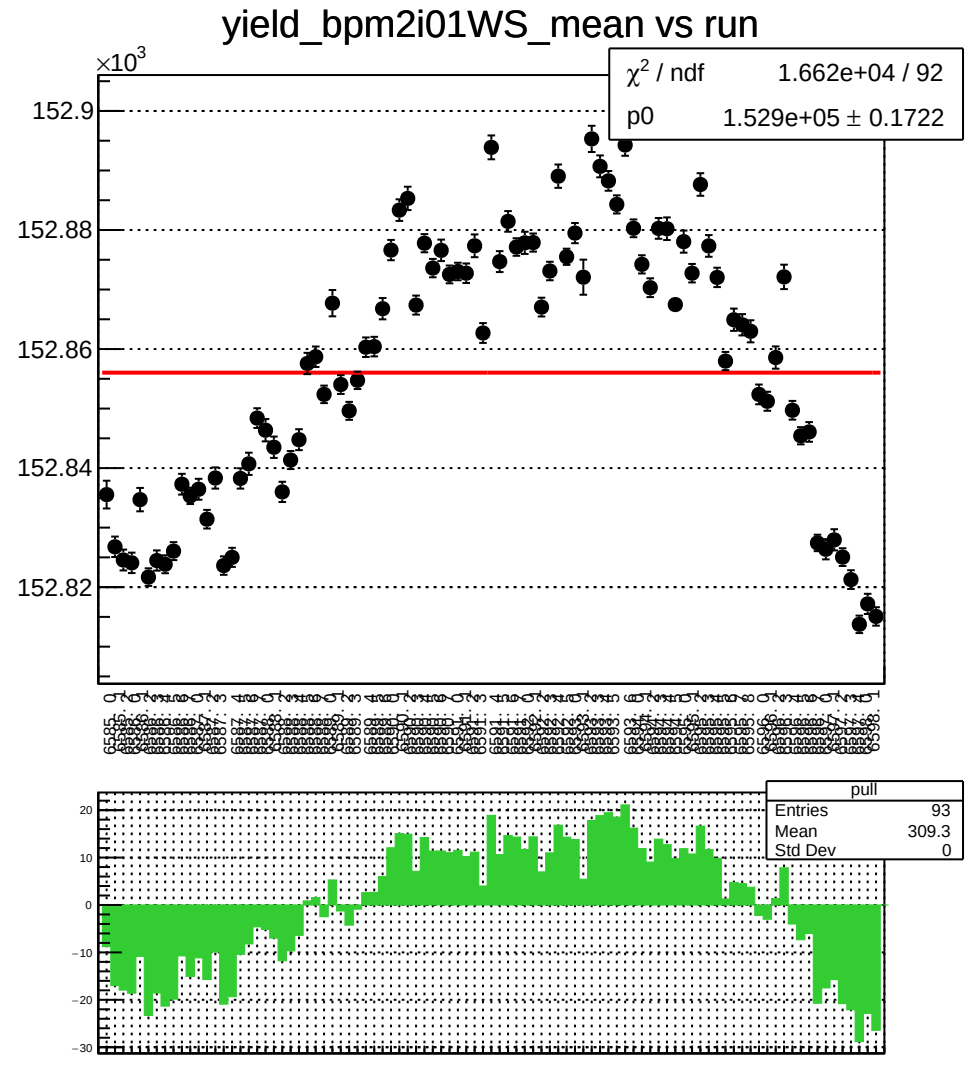

yield_bpm1i02WS_rms vs run
χ² / ndf 2.218e+04 / 92
p0 163.2 ± 0.1234
280
260
240
220
200
180
160
140

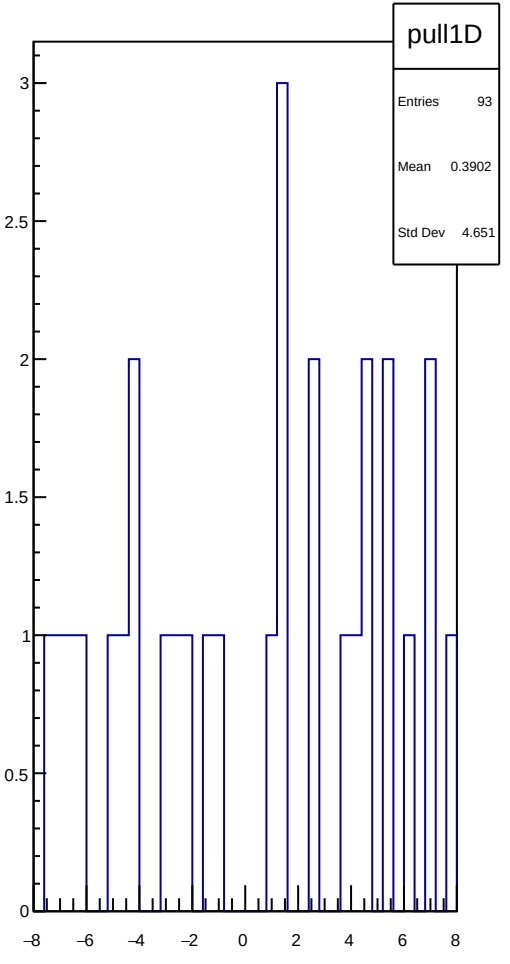

yield_bpm1i04WS_mean vs run
×10^3
141.8
141.6
141.4
141.2
141
140.8
140.6
χ² / ndf 2.551e+06 / 92
p0 1.408e+05 ± 0.1704
pull
Entries 93
Mean −5346
Std Dev 0
500
400
300
200
100
0
−100
−200
pull1D
Entries 93
Mean −7.306
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

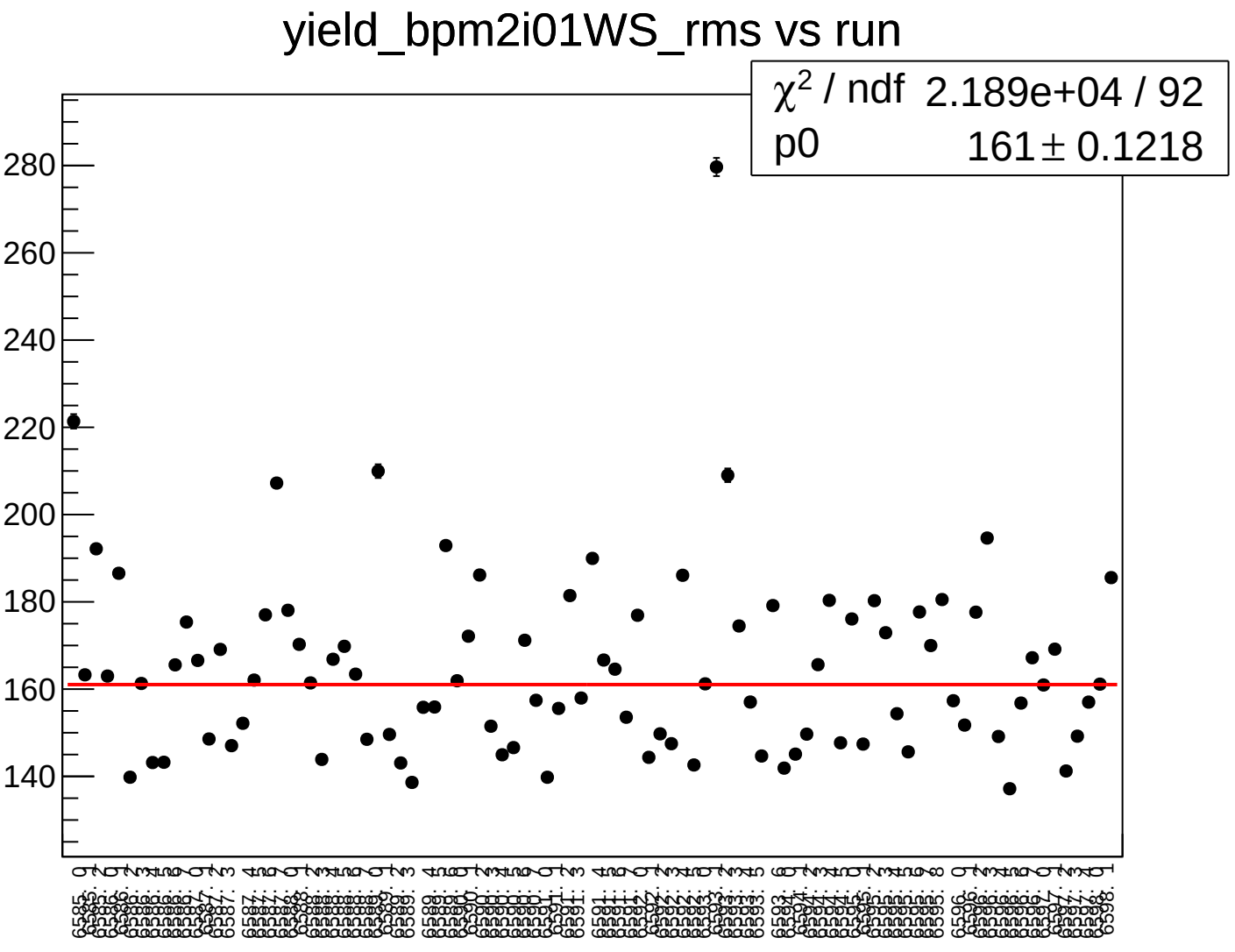

yield_bpm1i04WS_rms vs run
χ² / ndf 2.657e+04 / 92
p0 159.1 ± 0.1205
280
260
240
220
200
180
160
140
120

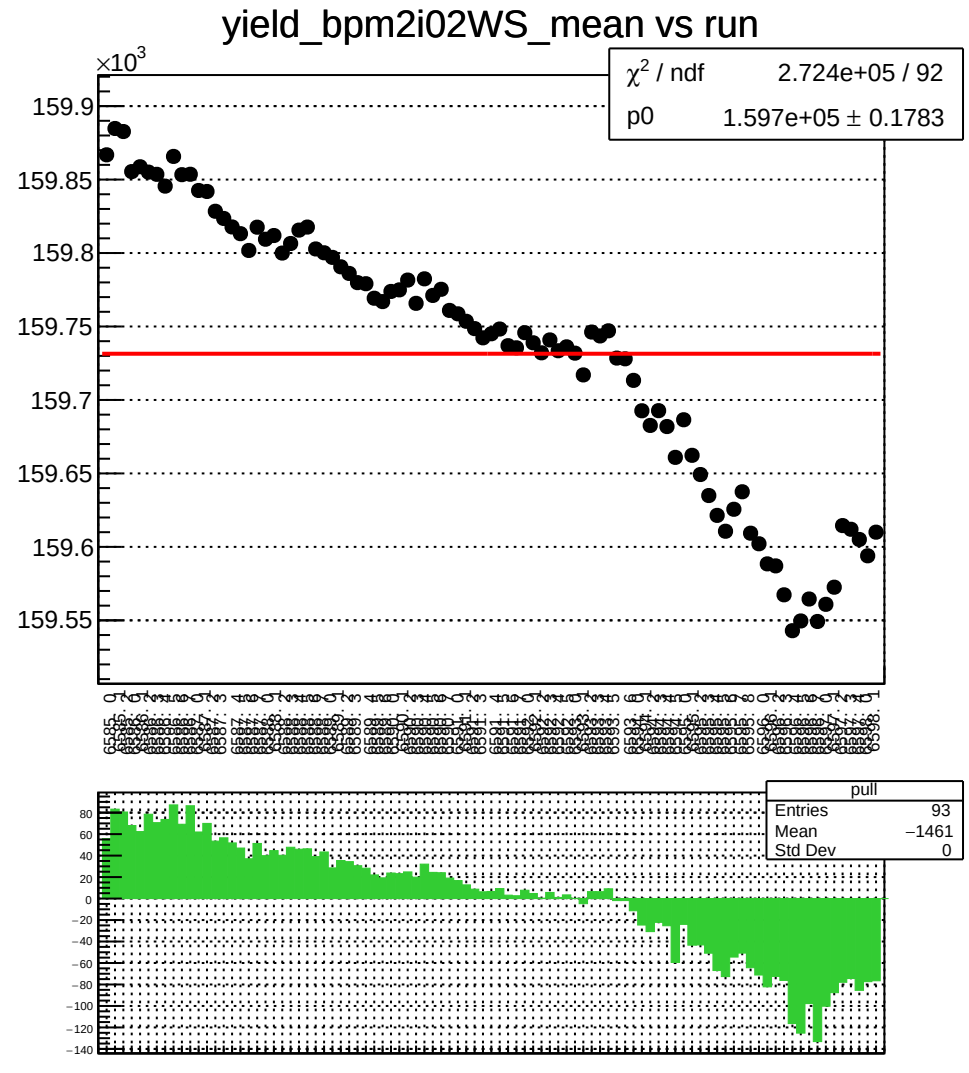

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 5.873e+06 / 92
p0 1.481e+05 ± 0.2166
149.5
149
148.5
148
147.5
pull
Entries 93
Mean 901.5
Std Dev 0
800
600
400
200
0
−200
pull1D
Entries 93
Mean −3.535
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

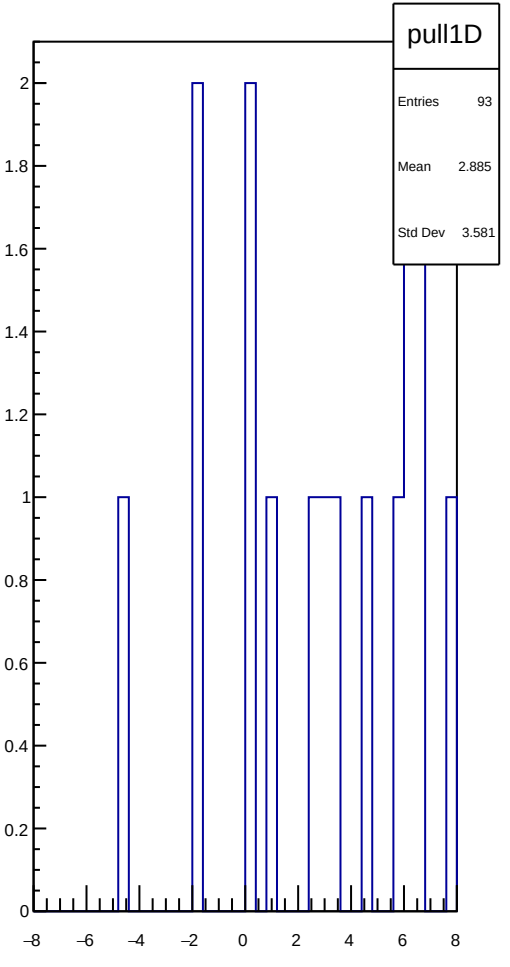

yield_bpm1i06WS_rms vs run
χ² / ndf 2.273e+04 / 92
p0 202.4 ± 0.1531
340
320
300
280
260
240
220
200
180
160

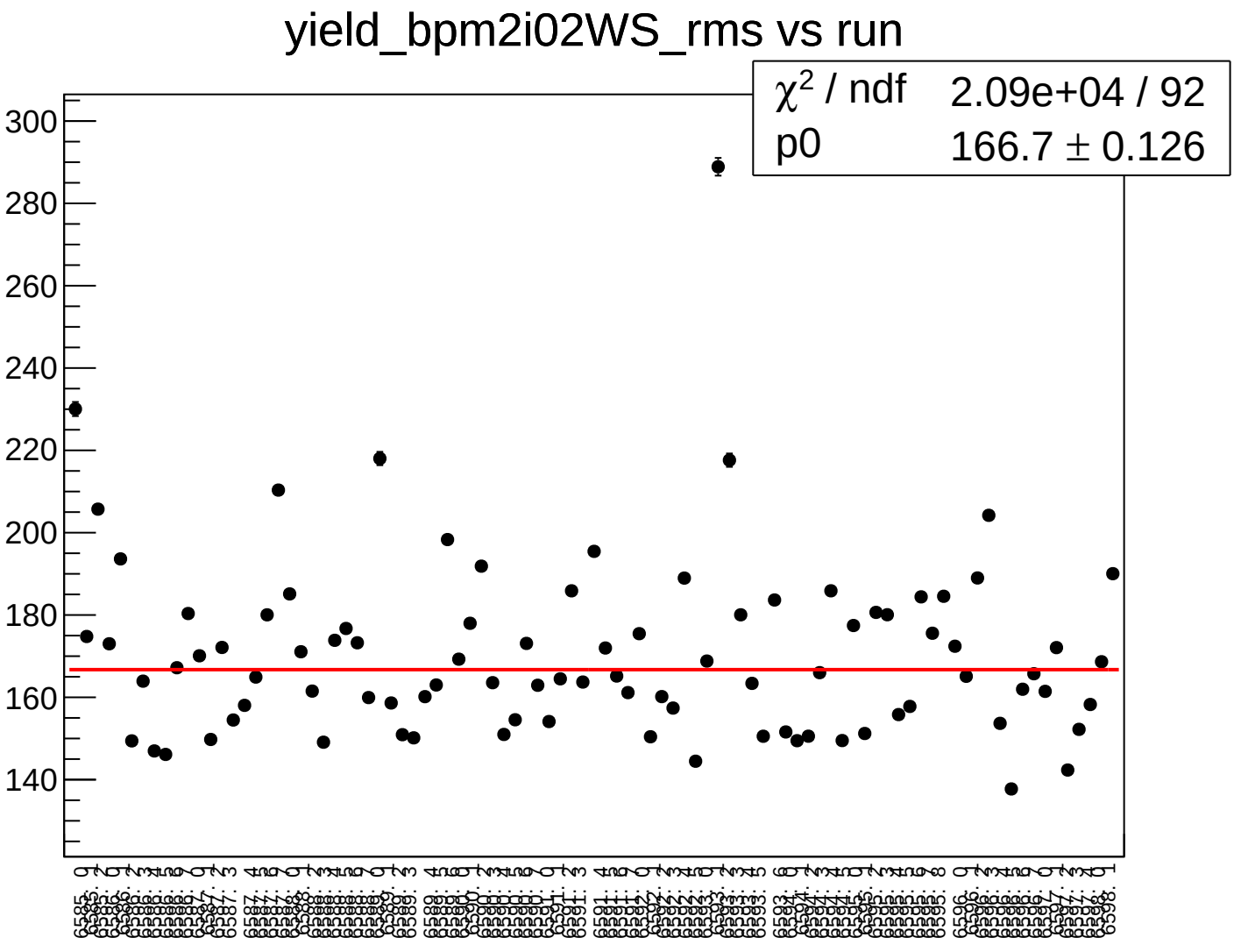

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.662e+04 / 92
p0 1.529e+05 ± 0.1722
152.9
152.88
152.86
152.84
152.82
pull
Entries 93
Mean 309.3
Std Dev 0
20
10
0
−10
−20
−30

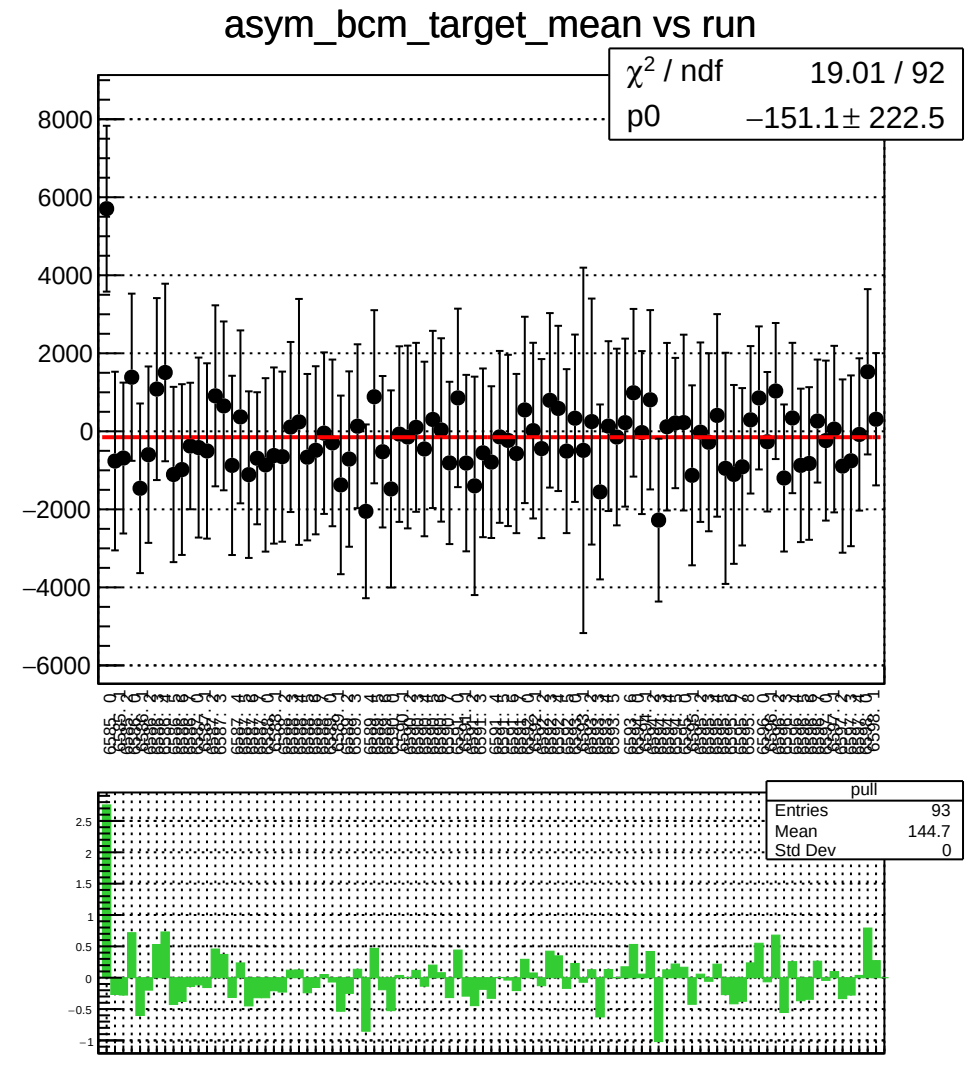

pull1D
Entries 93
Mean 0.3902
Std Dev 4.651
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

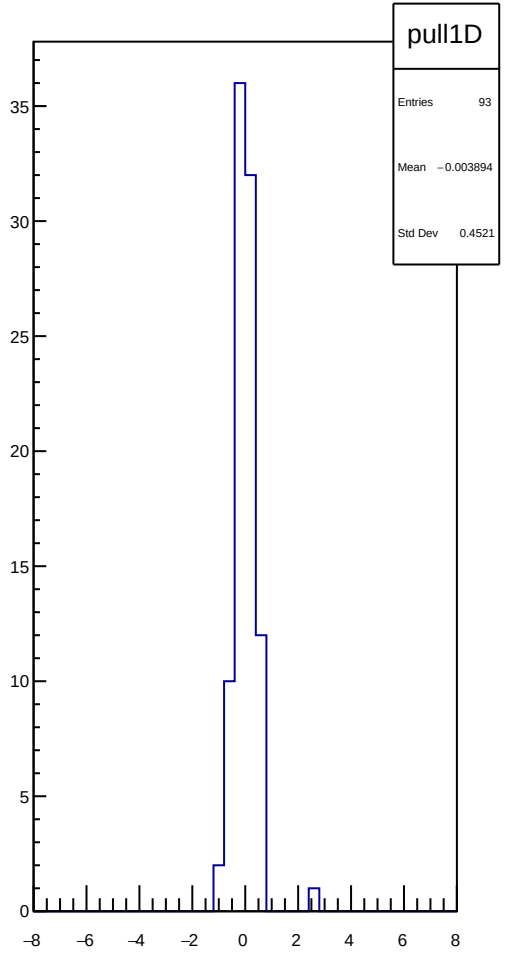

yield_bpm2i01WS_rms vs run
χ^2 / ndf 2.189e+04 / 92
p0 161 ± 0.1218
280
260
240
220
200
180
160
140

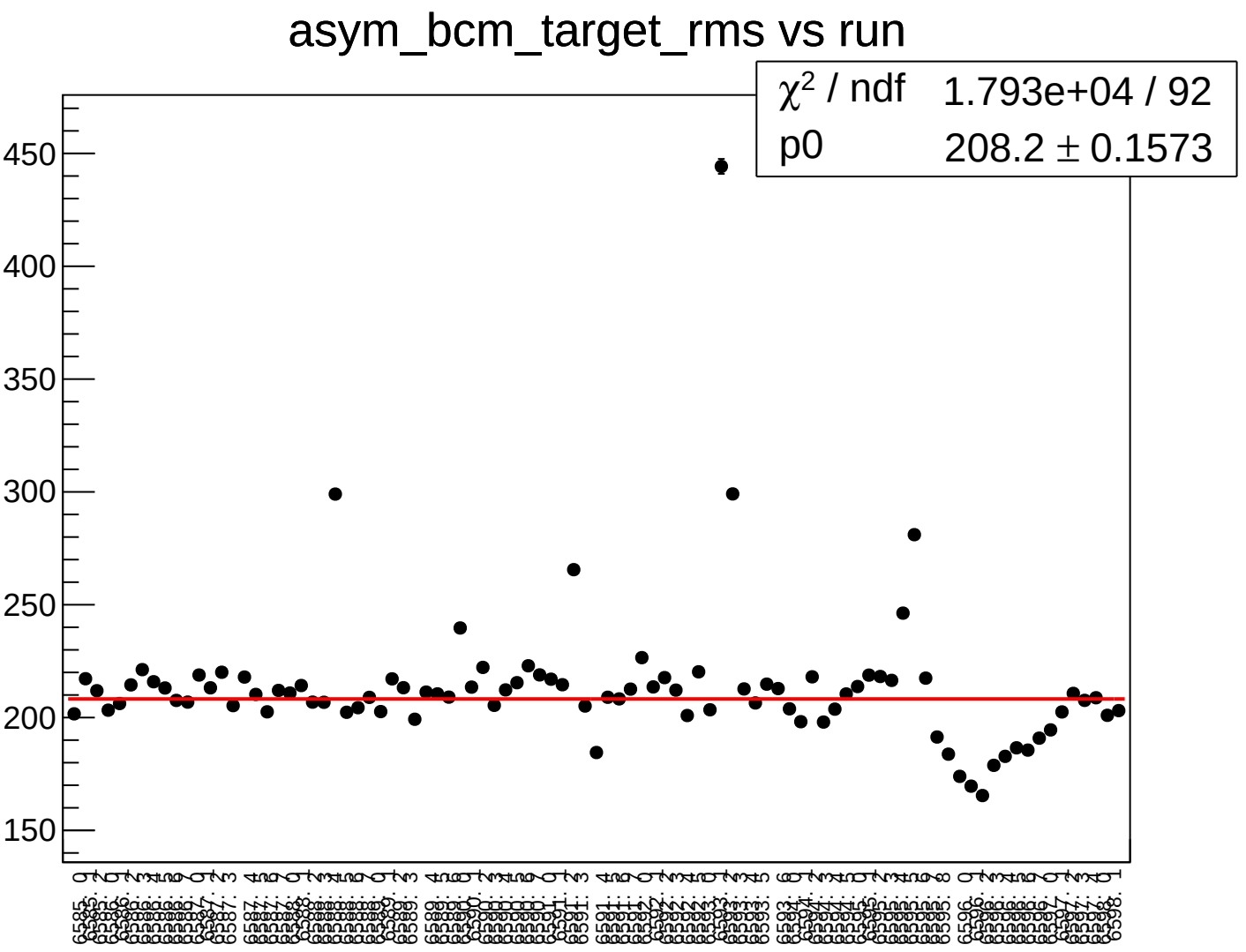

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.724e+05 / 92
p0 1.597e+05 ± 0.1783
159.9
159.85
159.8
159.75
159.7
159.65
159.6
159.55
pull
Entries 93
Mean −1461
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

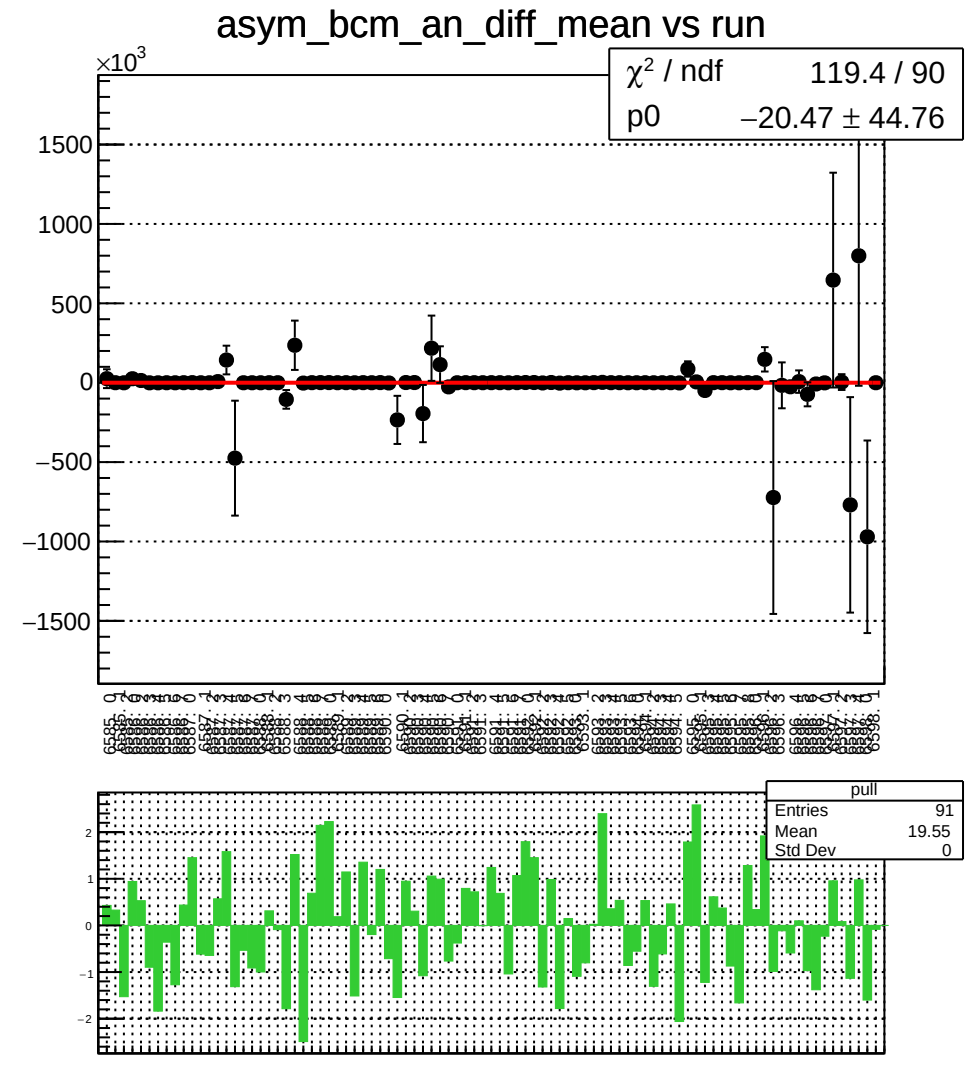

pull1D
Entries 93
Mean 2.885
Std Dev 3.581
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

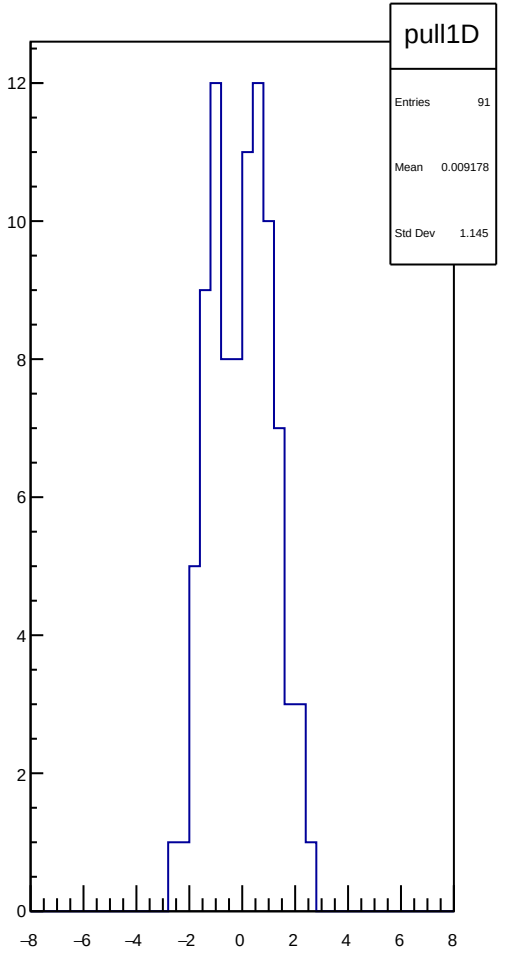

yield_bpm2i02WS_rms vs run
χ^2 / ndf 2.09e+04 / 92
p0 166.7 ± 0.126
300
280
260
240
220
200
180
160
140

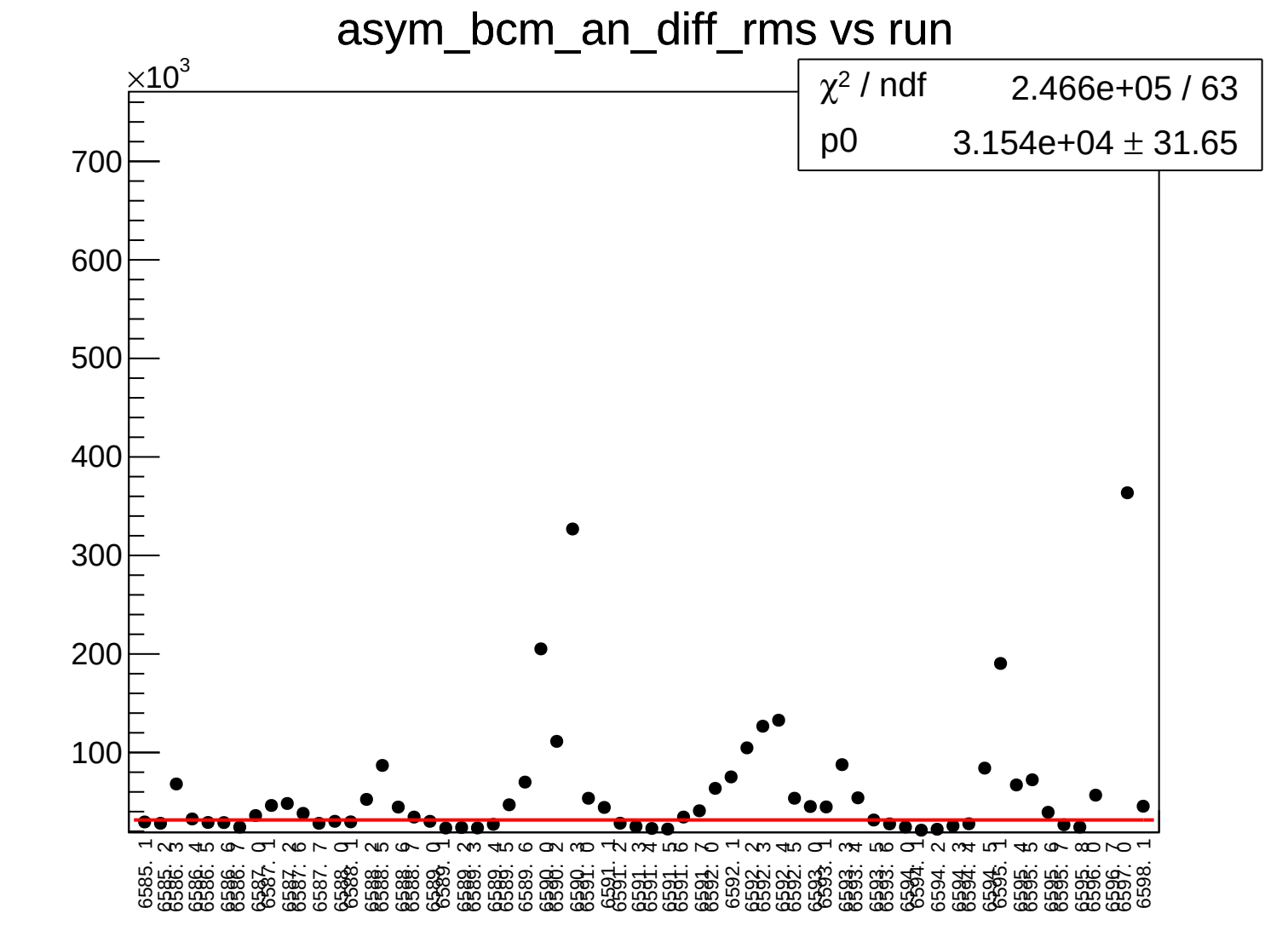

asym_bcm_target_mean vs run
χ² / ndf 19.01 / 92
p0 −151.1± 222.5
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 144.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

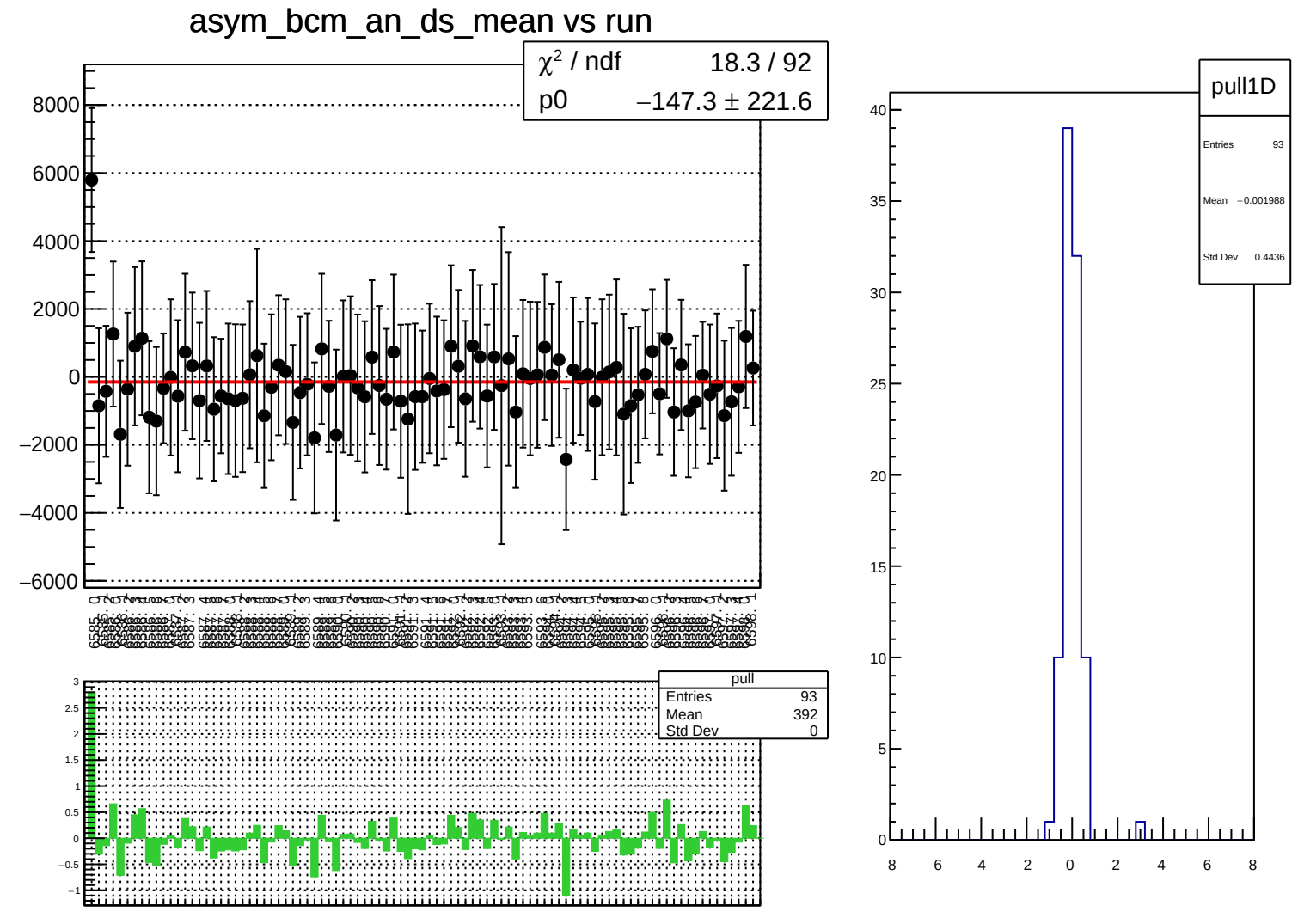

pull1D
Entries 93
Mean −0.003894
Std Dev 0.4521
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

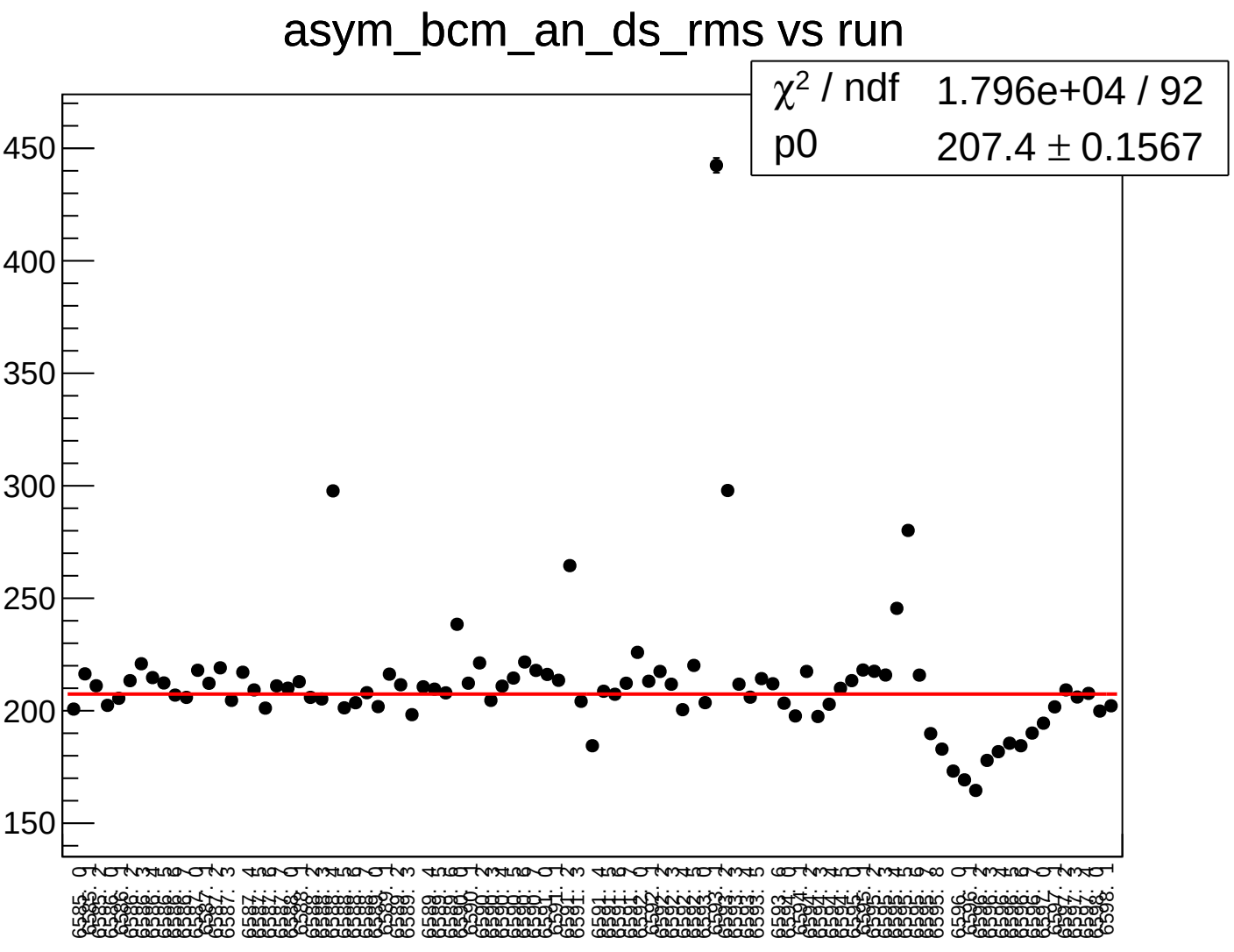

asym_bcm_target_rms vs run
χ^2 / ndf 1.793e+04 / 92
p0 208.2 ± 0.1573
450
400
350
300
250
200
150

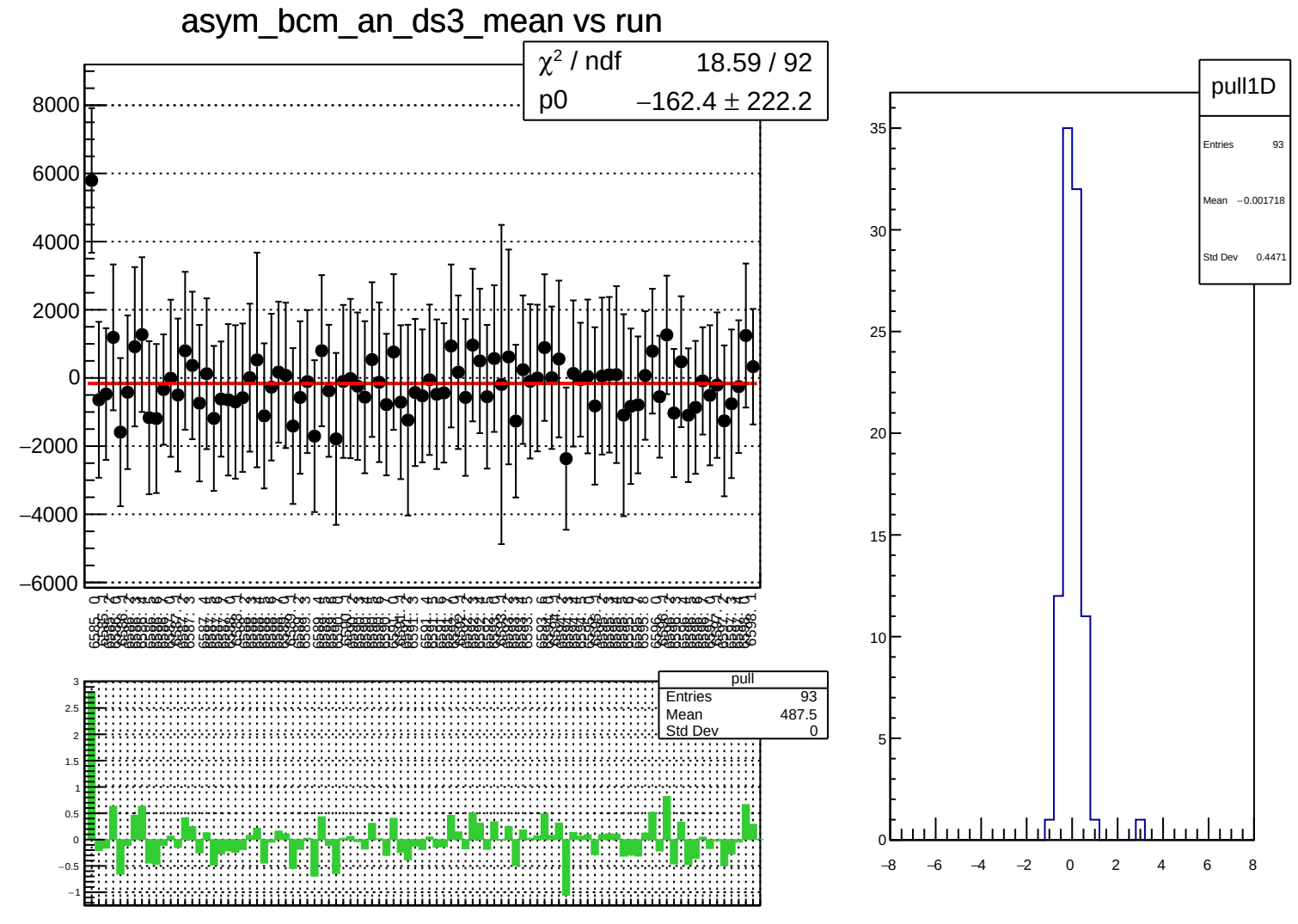

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 119.4 / 90
p0 −20.47 ± 44.76
1500
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 19.55
Std Dev 0
2
1
0
−1
−2

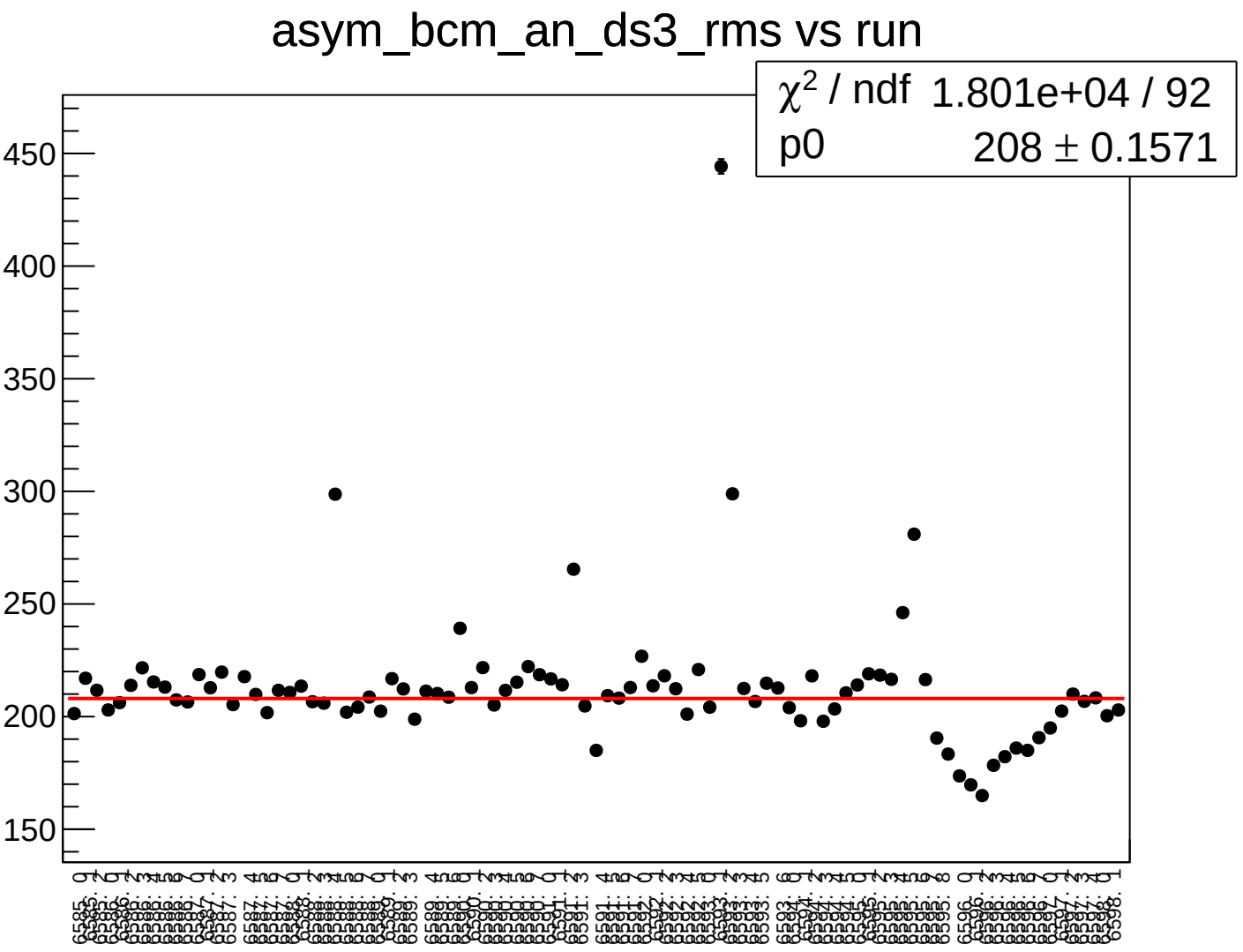

pull1D
Entries 91
Mean 0.009178
Std Dev 1.145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

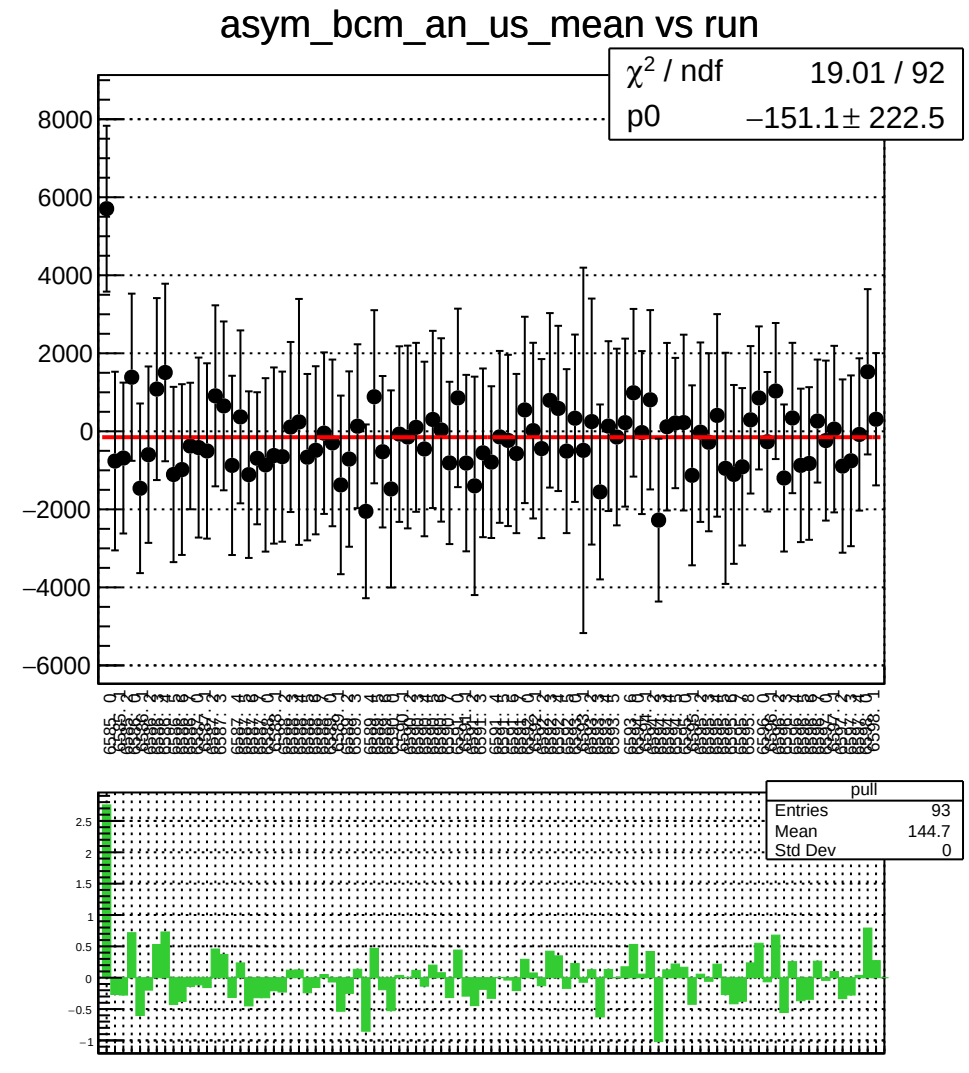

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 2.466e+05 / 63
p0 3.154e+04 ± 31.65
700
600
500
400
300
200
100

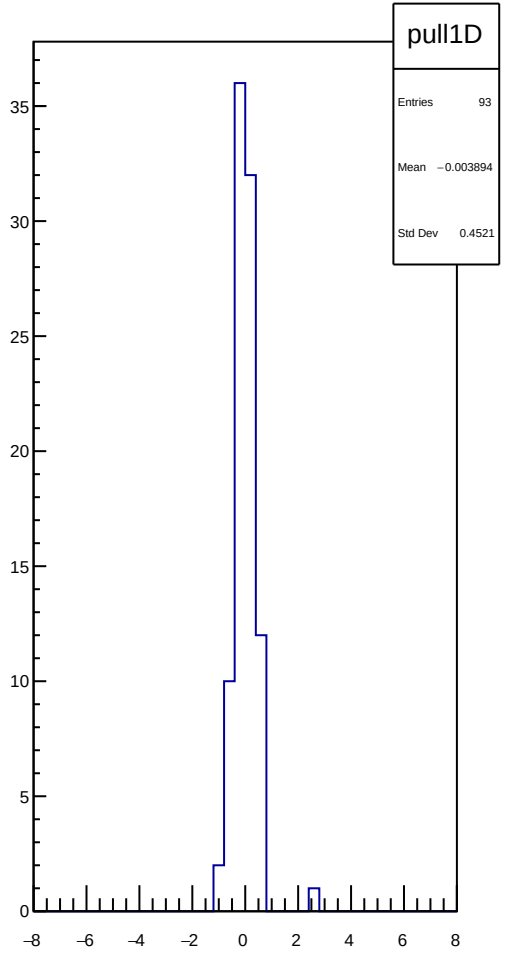

asym_bcm_an_ds_mean vs run
χ² / ndf 18.3 / 92
p0 −147.3 ± 221.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 392
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.001988
Std Dev 0.4436
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

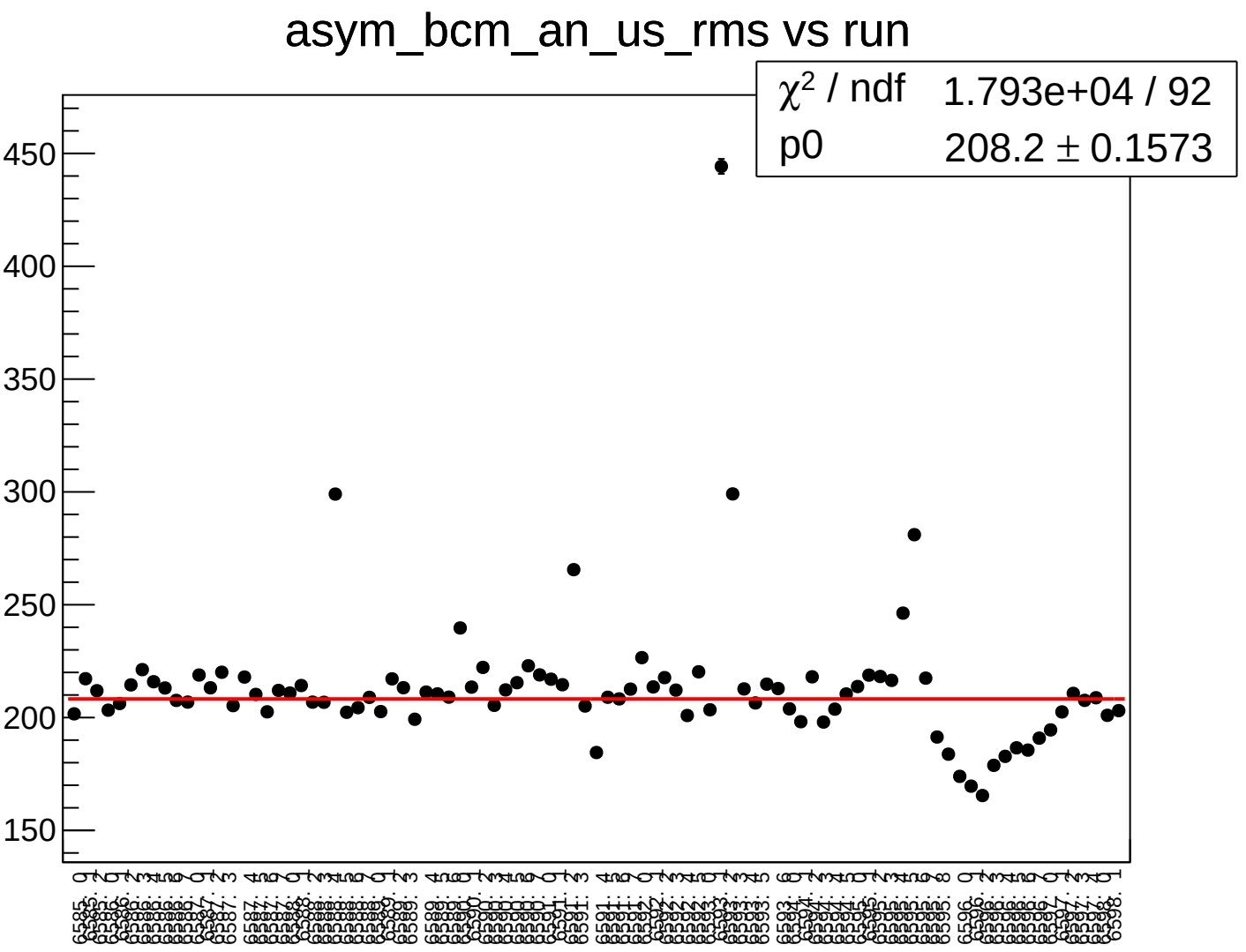

asym_bcm_an_ds_rms vs run
χ^2 / ndf 1.796e+04 / 92
p0 207.4 ± 0.1567
450
400
350
300
250
200
150

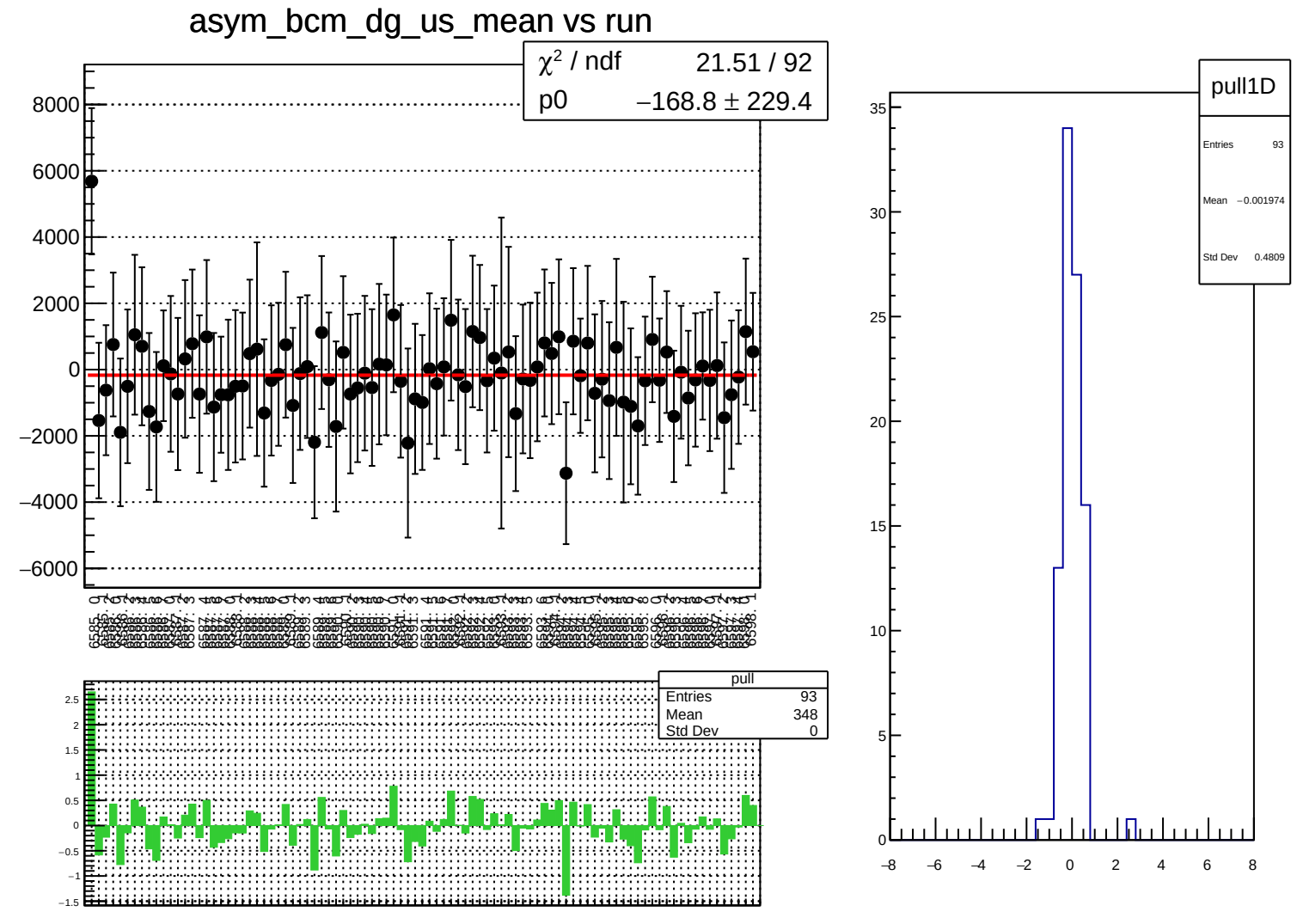

asym_bcm_an_ds3_mean vs run
χ² / ndf 18.59 / 92
p0 −162.4 ± 222.2
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 487.5
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.001718
Std Dev 0.4471
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

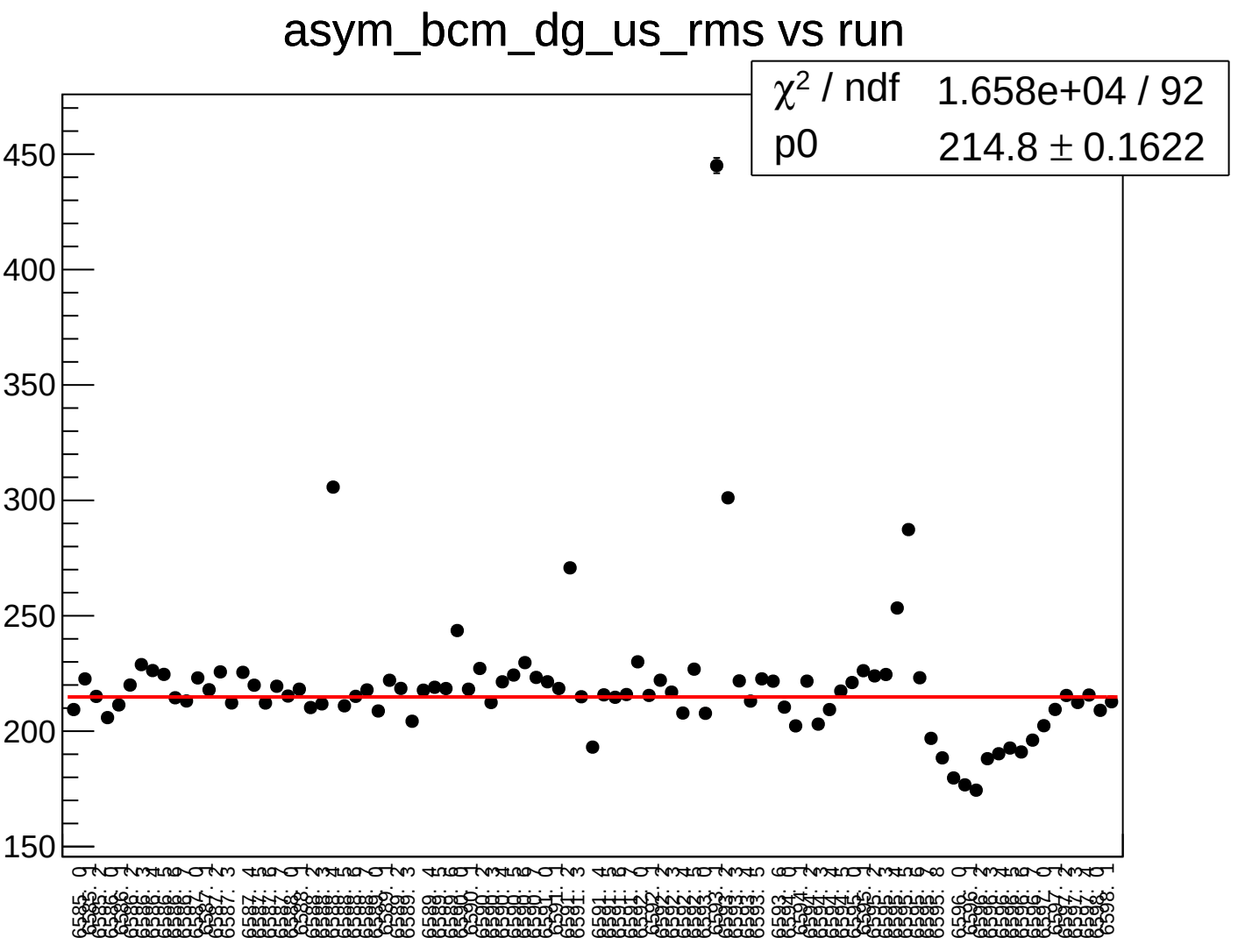

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 1.801e+04 / 92
p0 208 ± 0.1571
450
400
350
300
250
200
150

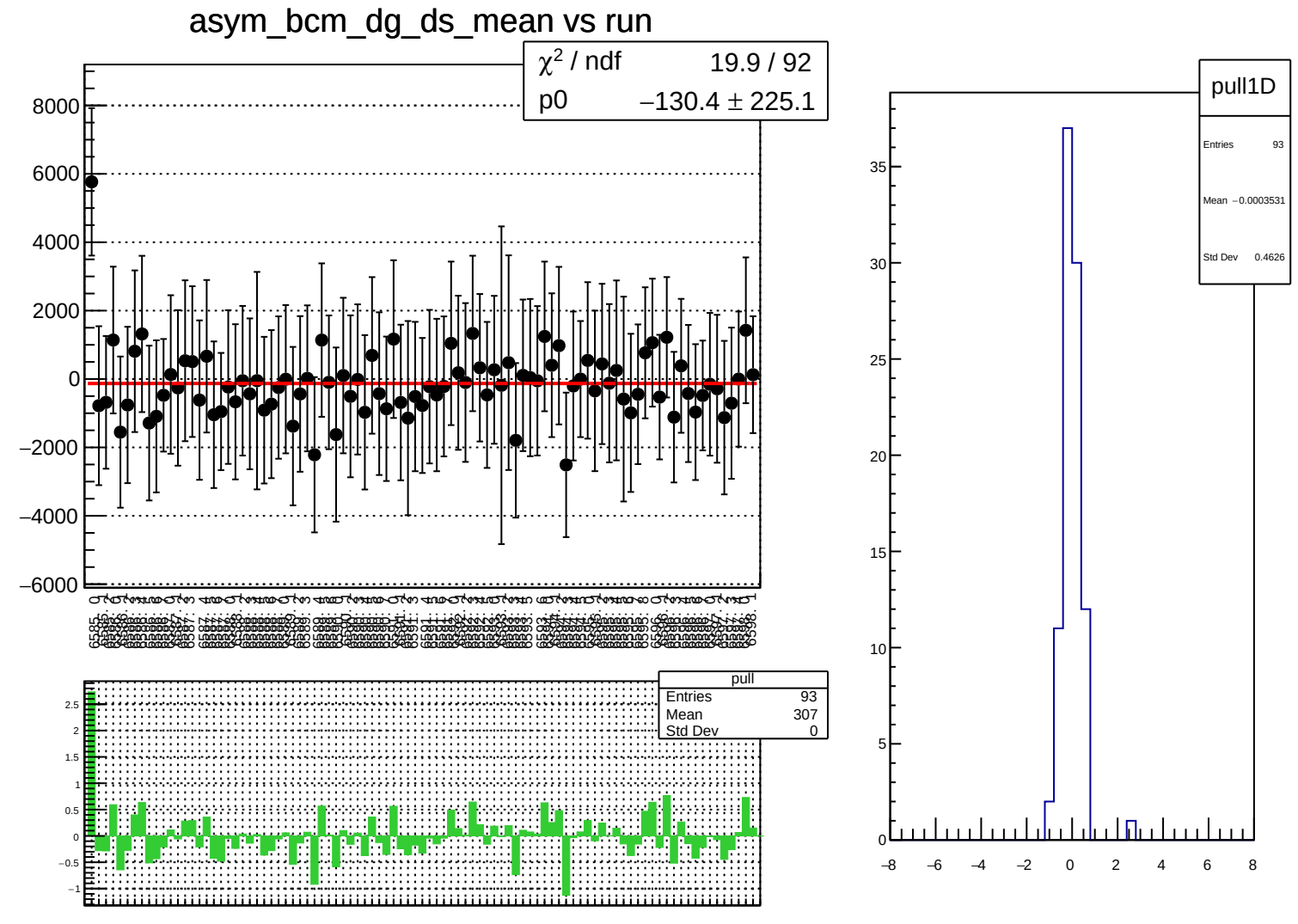

asym_bcm_an_us_mean vs run
χ² / ndf 19.01 / 92
p0 −151.1± 222.5
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 144.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

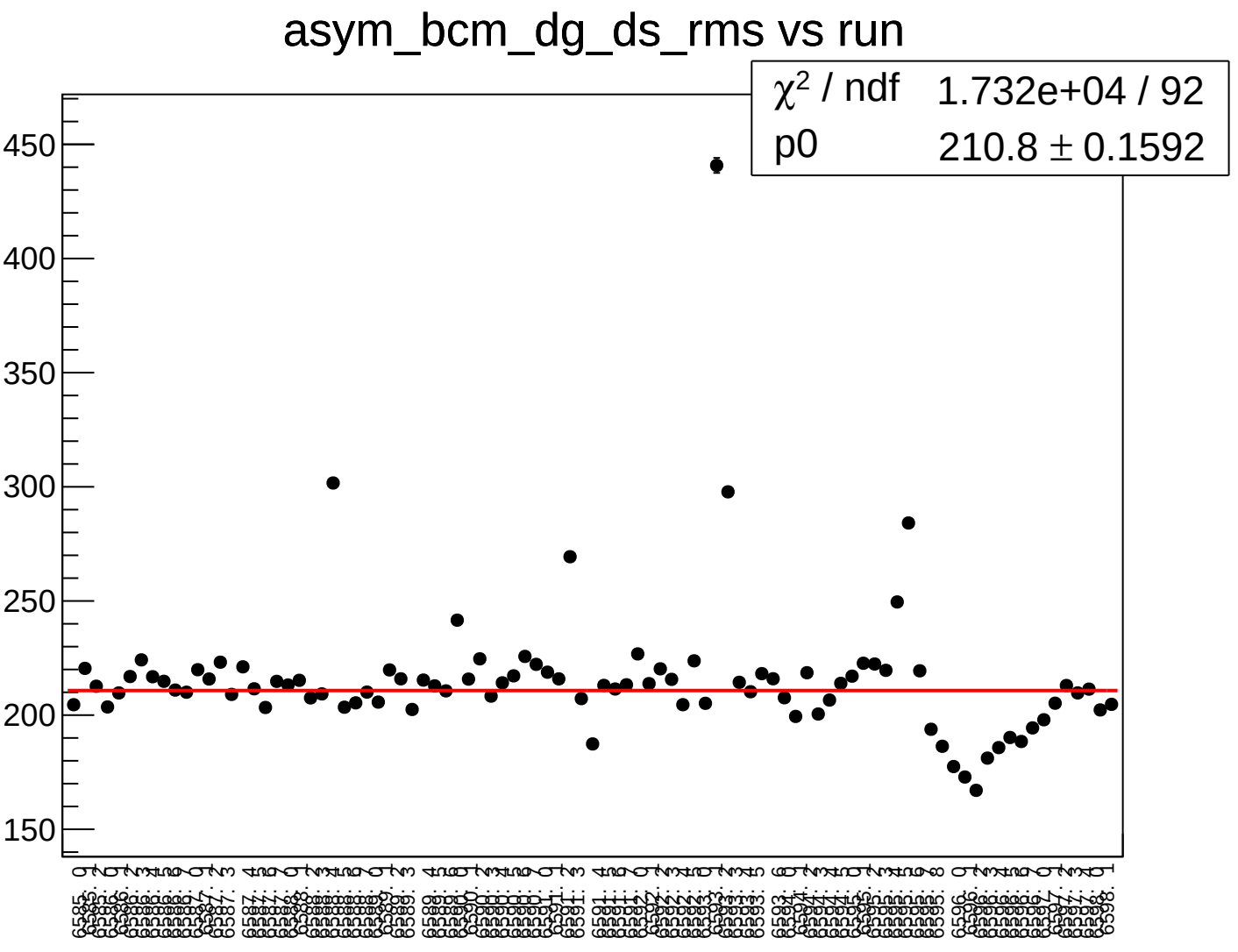

pull1D
Entries 93
Mean −0.003894
Std Dev 0.4521
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

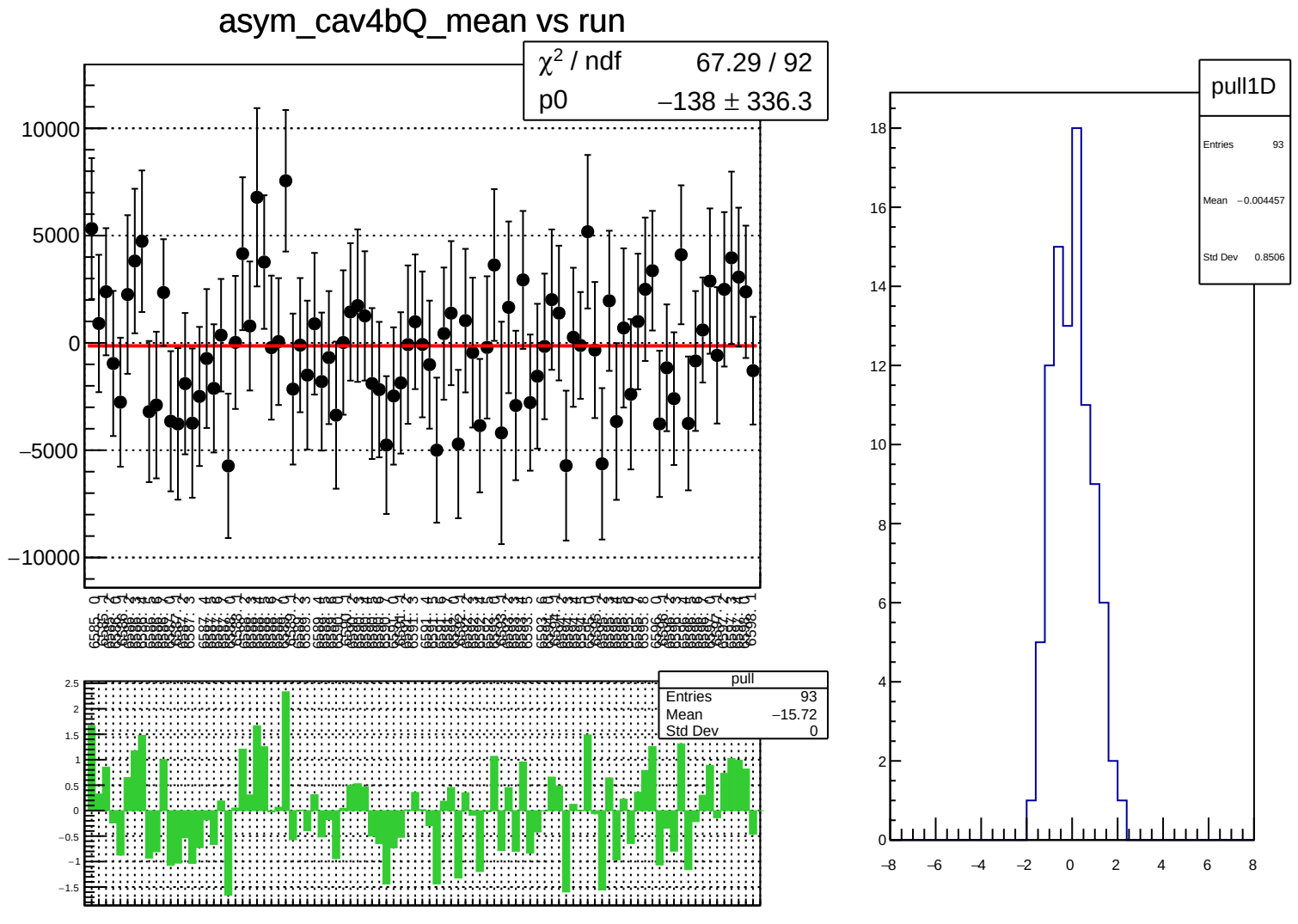

asym_bcm_an_us_rms vs run
χ^2 / ndf 1.793e+04 / 92
p0 208.2 ± 0.1573
450
400
350
300
250
200
150

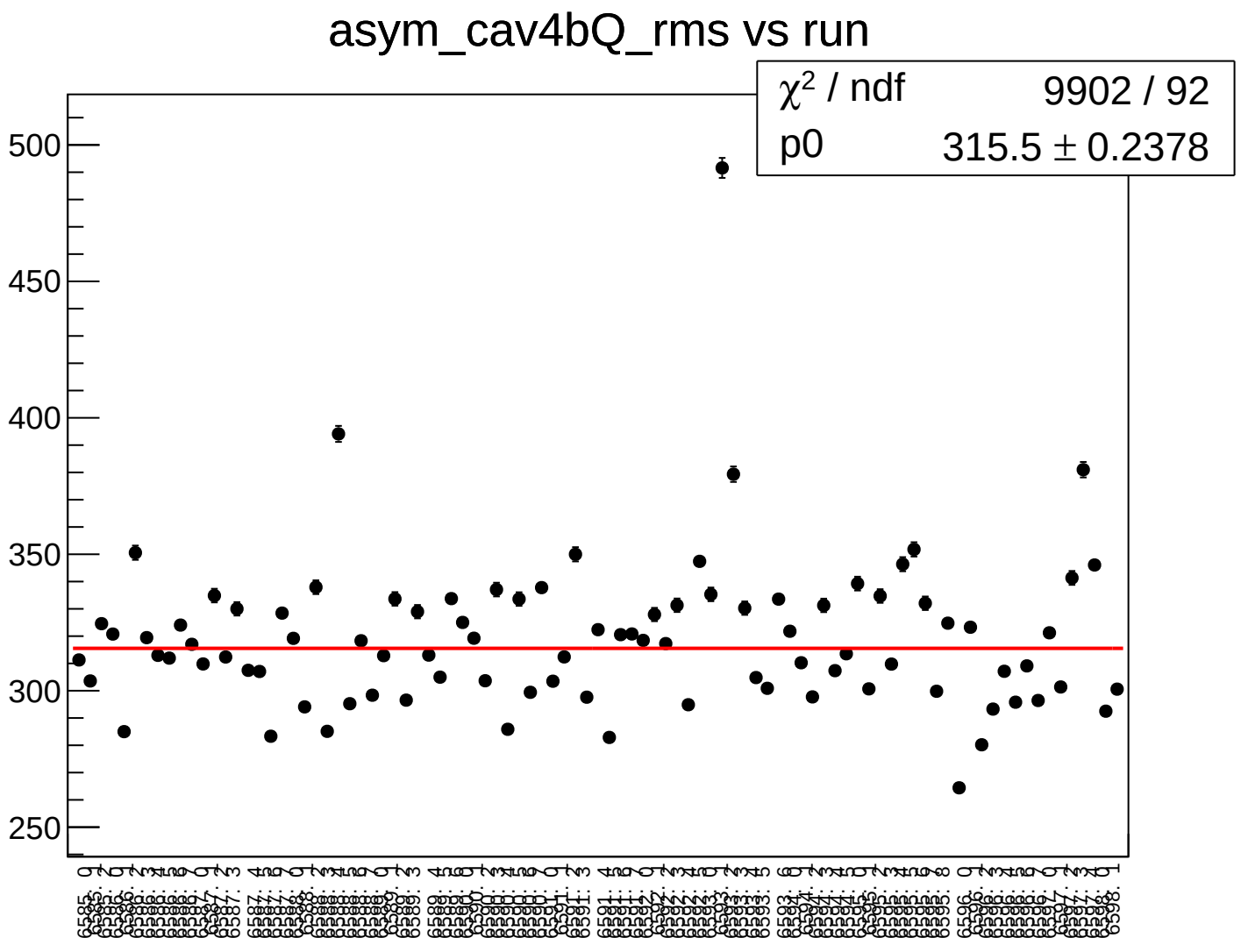

asym_bcm_dg_us_mean vs run
χ² / ndf 21.51 / 92
p0 −168.8 ± 229.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 348
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.001974
Std Dev 0.4809
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

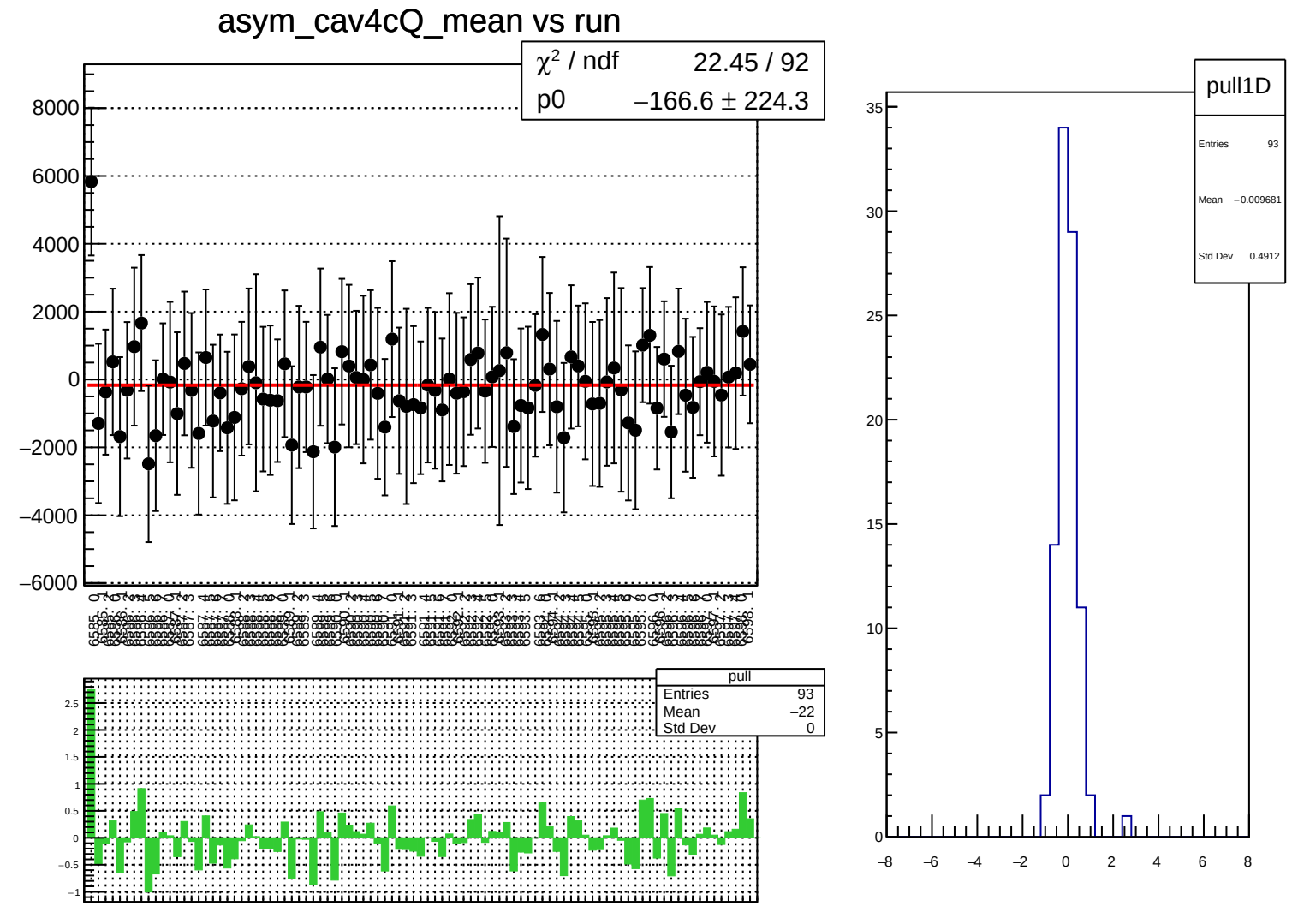

asym_bcm_dg_us_rms vs run
χ² / ndf 1.658e+04 / 92
p0 214.8 ± 0.1622
450
400
350
300
250
200
150

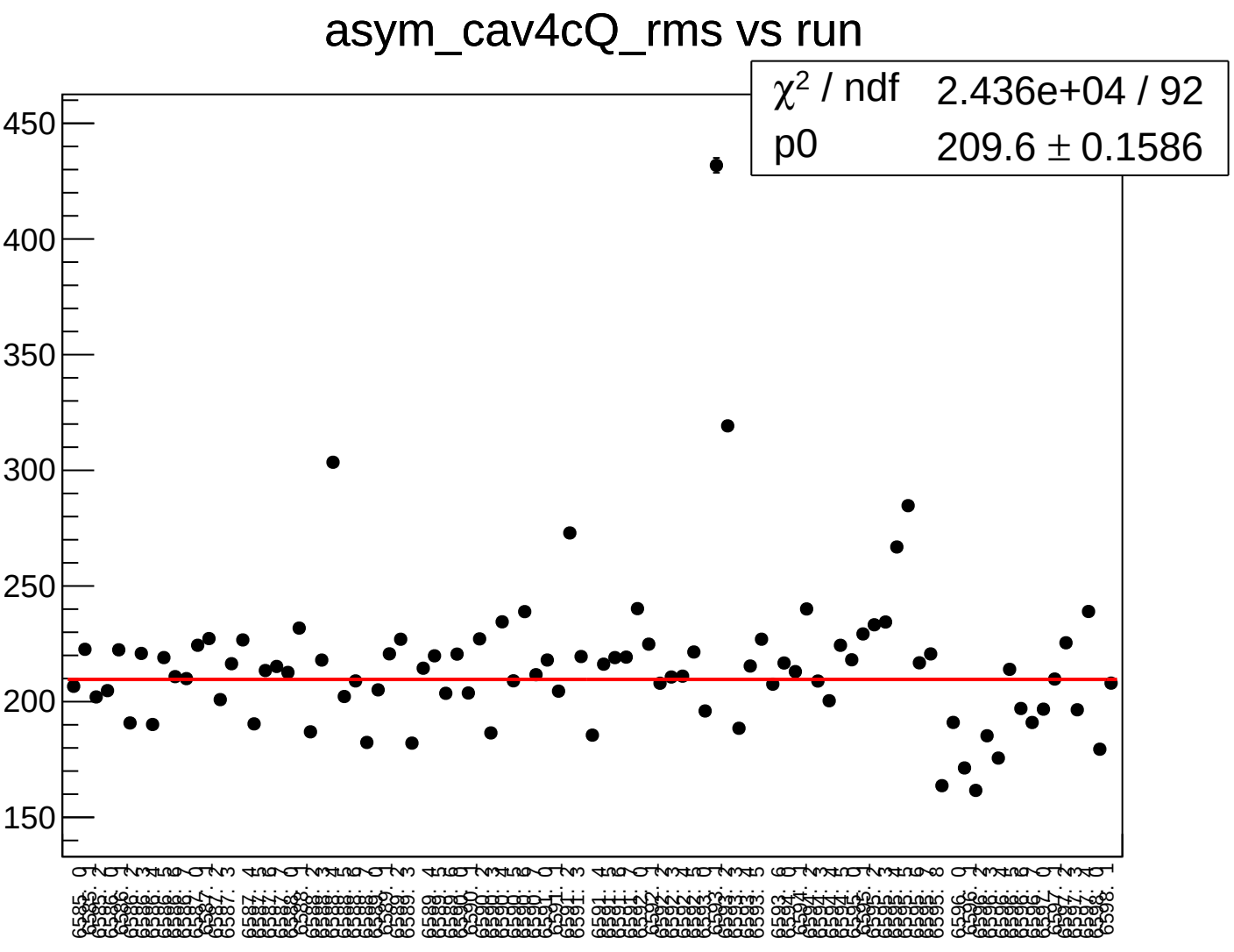

asym_bcm_dg_ds_mean vs run
χ² / ndf 19.9 / 92
p0 −130.4 ± 225.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 307
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.0003531
Std Dev 0.4626
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

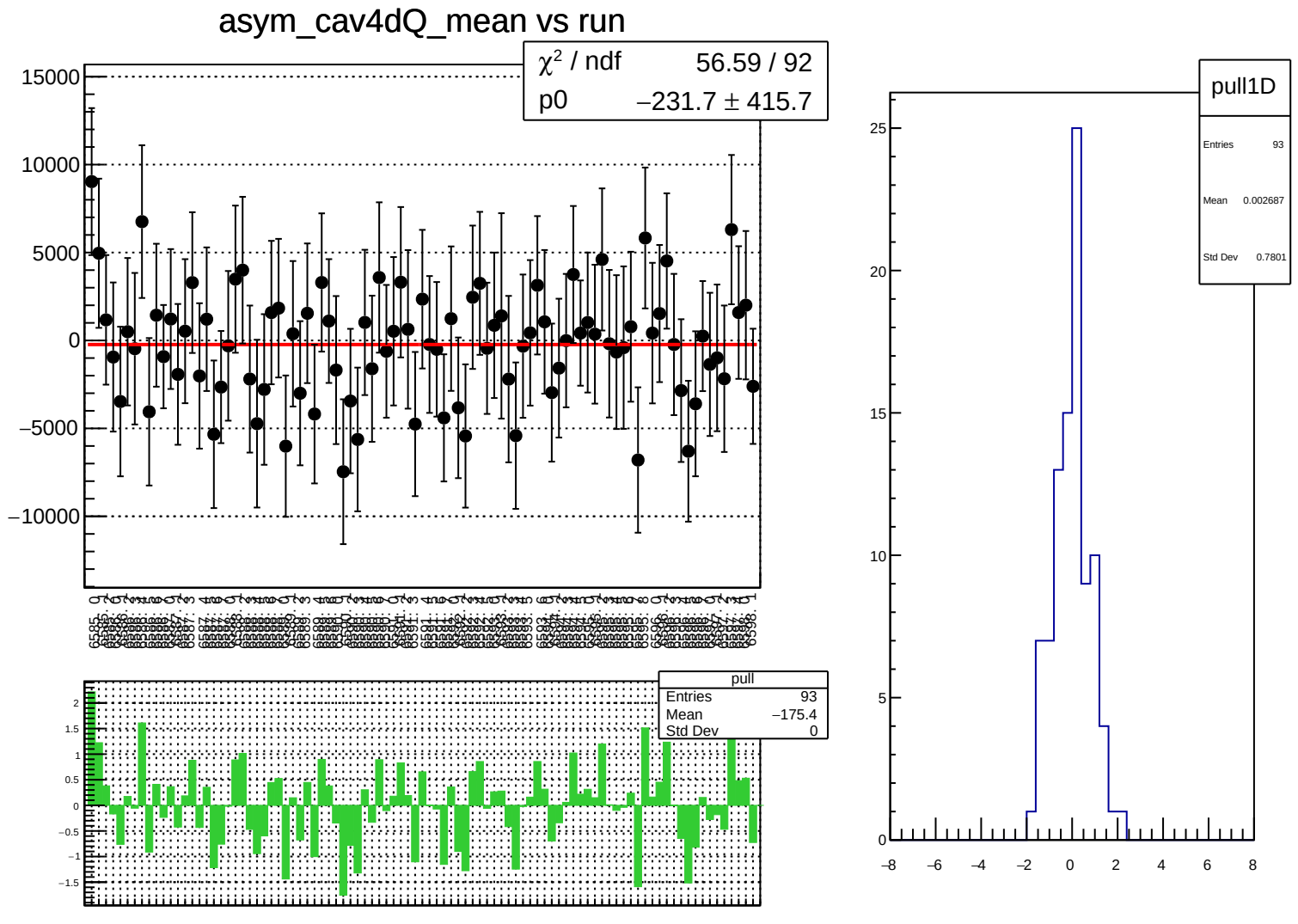

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 1.732e+04 / 92
p0 210.8 ± 0.1592
450
400
350
300
250
200
150

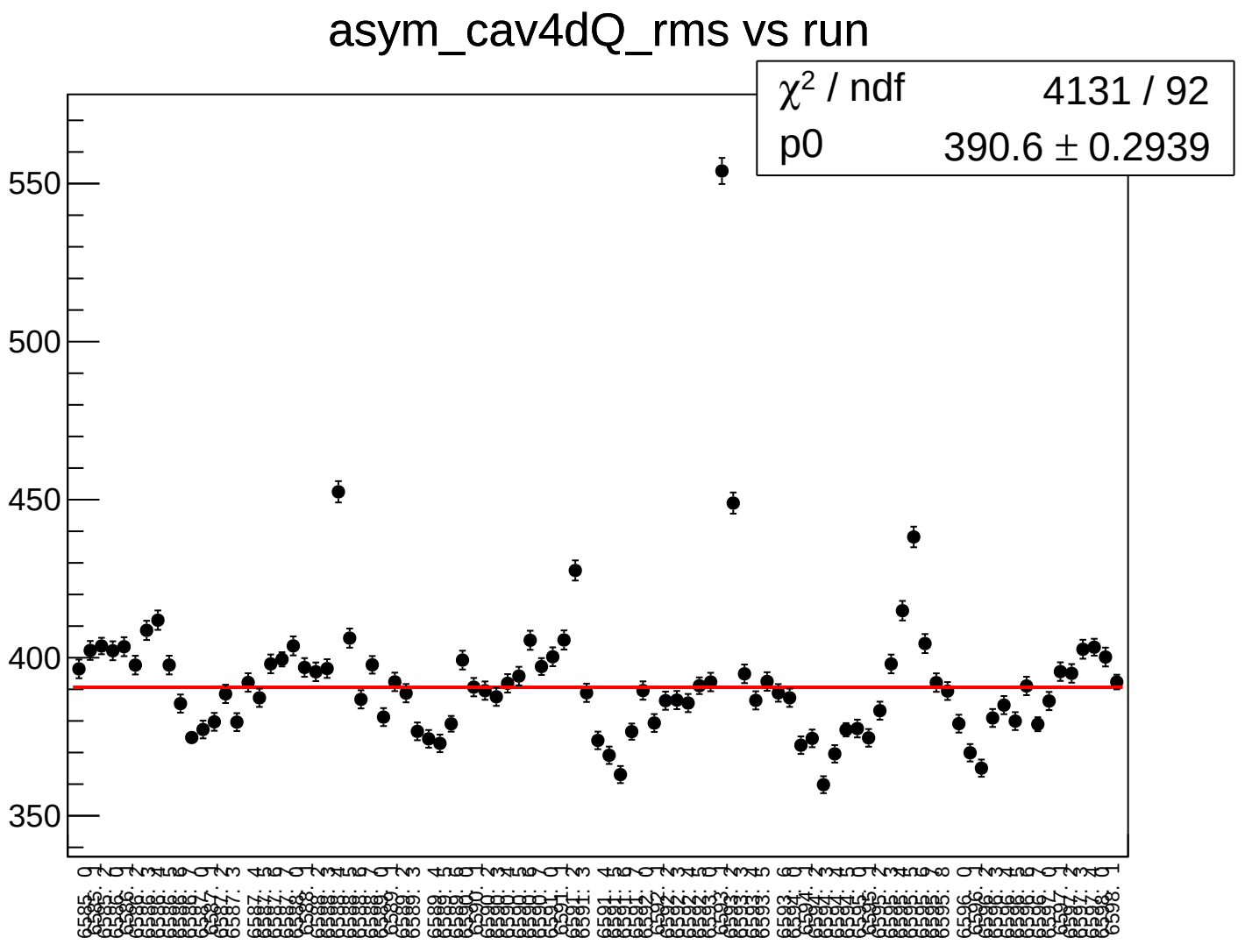

asym_cav4bQ_mean vs run
χ² / ndf 67.29 / 92
p0 −138 ± 336.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −15.72
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.004457
Std Dev 0.8506
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

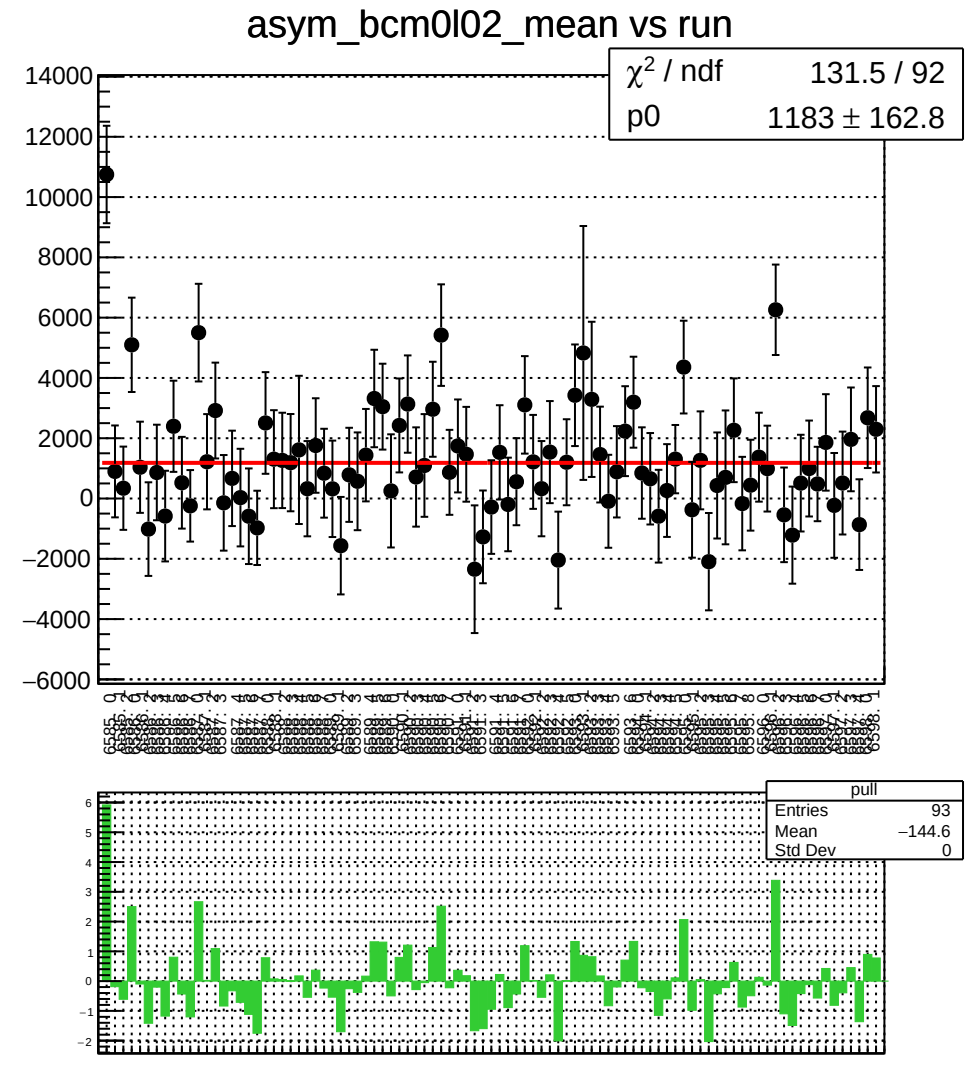

asym_cav4bQ_rms vs run
χ² / ndf 9902 / 92
p0 315.5 ± 0.2378
500
450
400
350
300
250

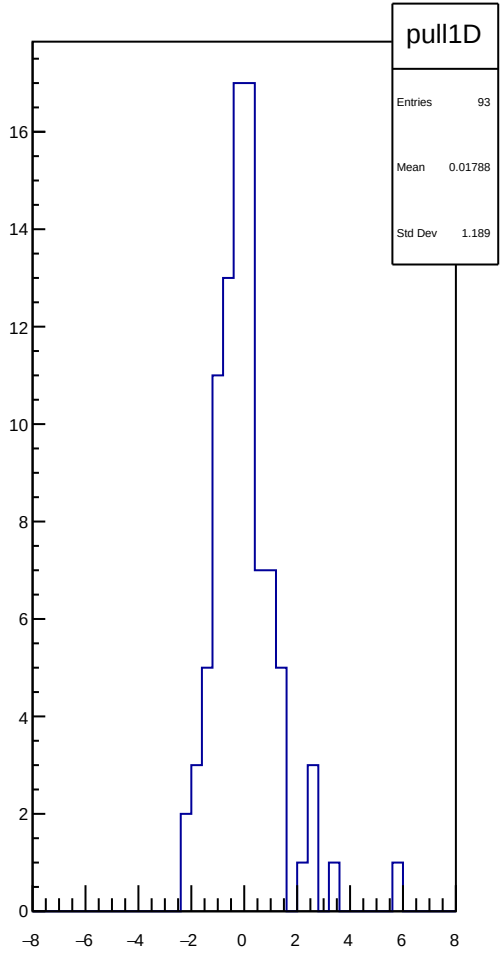

asym_cav4cQ_mean vs run
χ² / ndf 22.45 / 92
p0 −166.6 ± 224.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.009681
Std Dev 0.4912
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

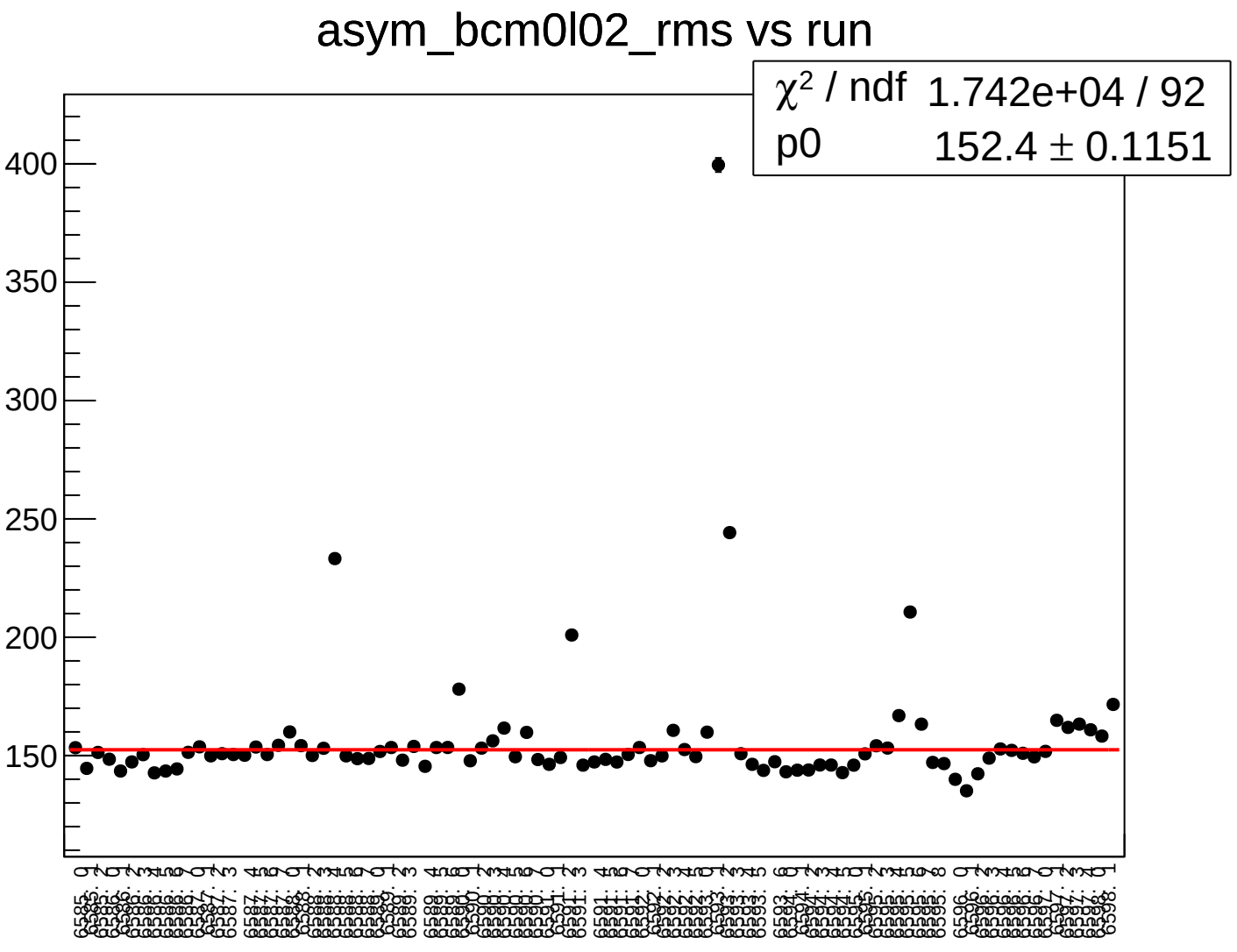

asym_cav4cQ_rms vs run
χ^2 / ndf 2.436e+04 / 92
p0 209.6 ± 0.1586
450
400
350
300
250
200
150

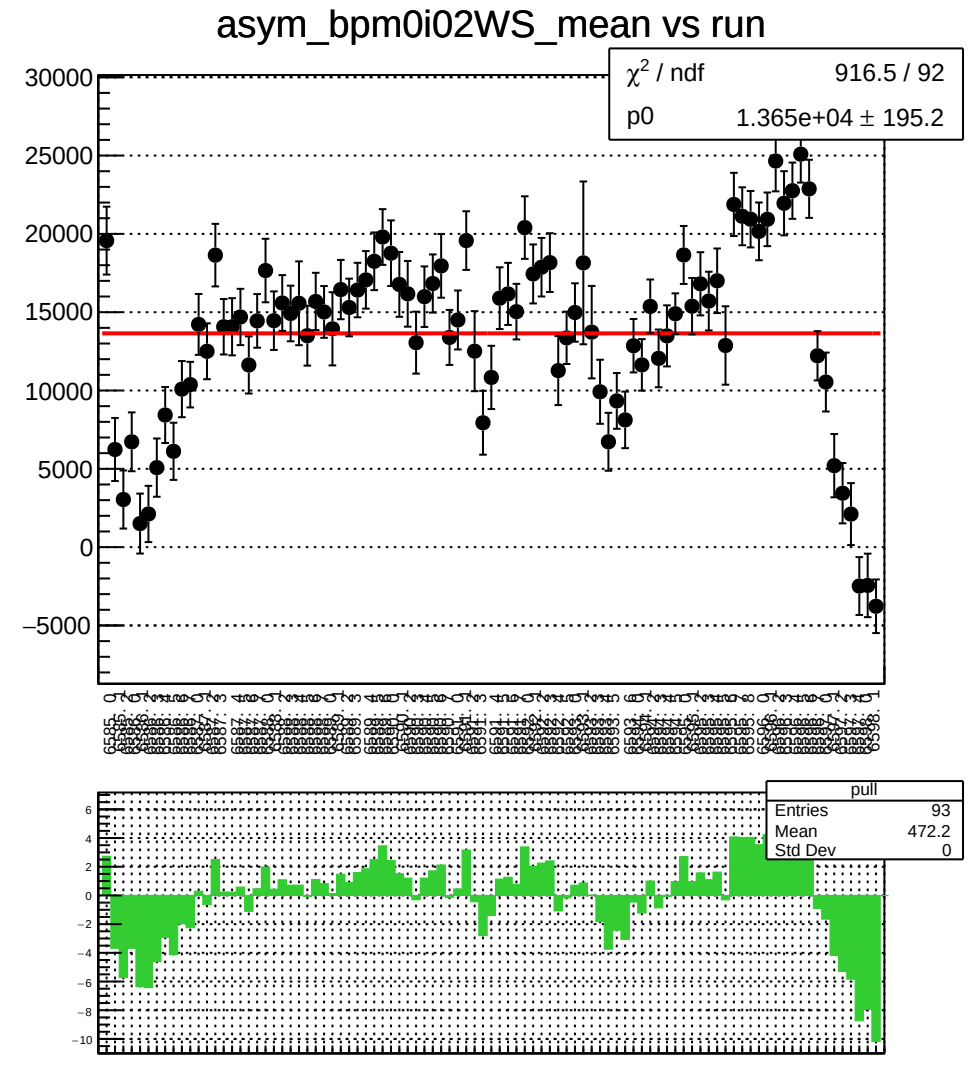

asym_cav4dQ_mean vs run
χ² / ndf 56.59 / 92
p0 −231.7 ± 415.7
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −175.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.002687
Std Dev 0.7801
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

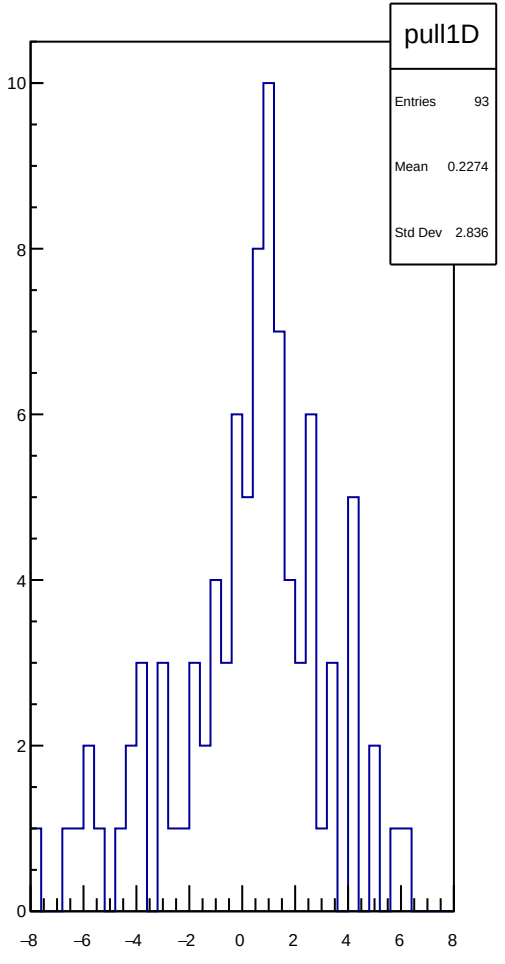

asym_cav4dQ_rms vs run
χ² / ndf 4131 / 92
p0 390.6 ± 0.2939
550
500
450
400
350

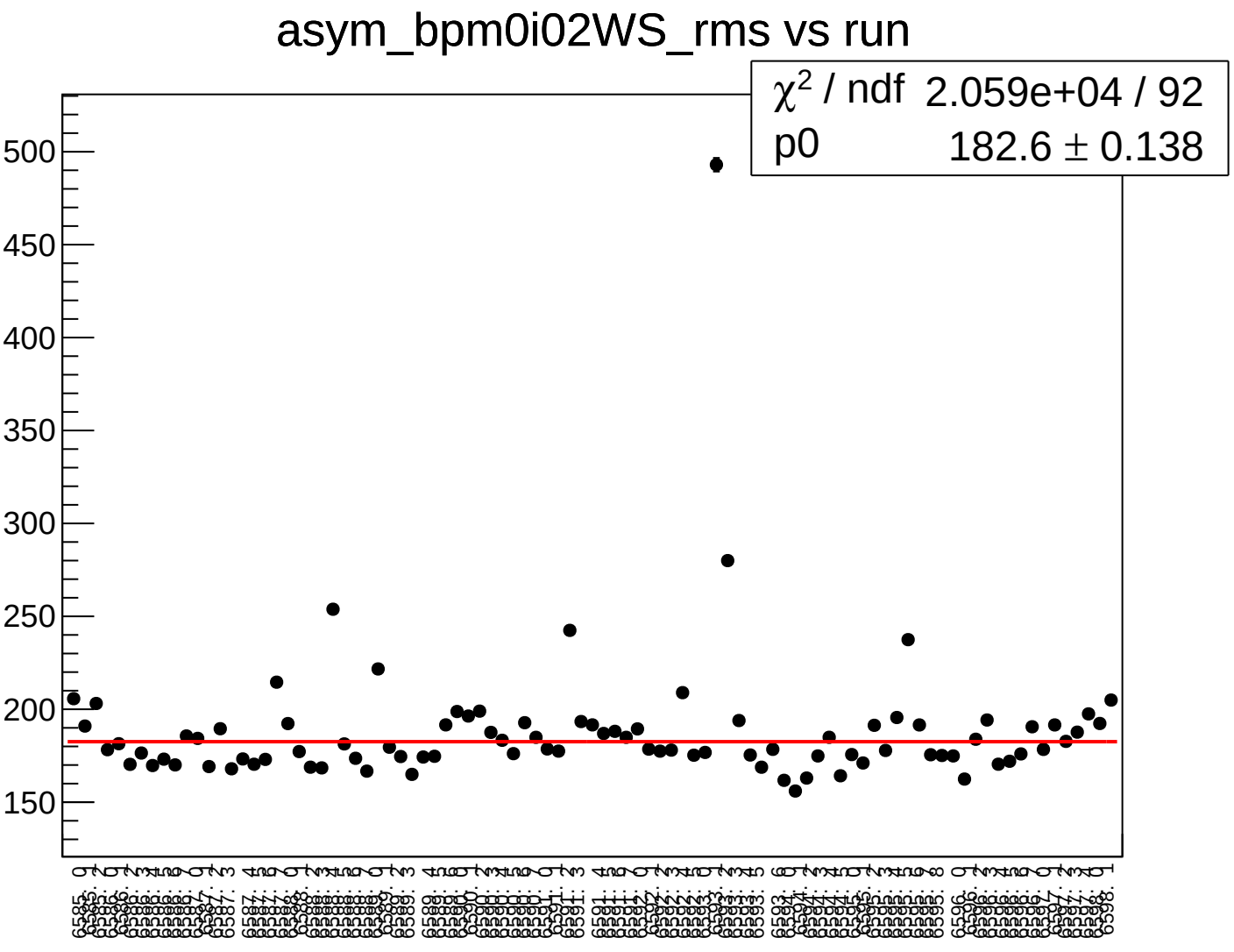

asym_bcm0l02_mean vs run
χ² / ndf 131.5 / 92
p0 1183 ± 162.8
pull
Entries 93
Mean −144.6
Std Dev 0

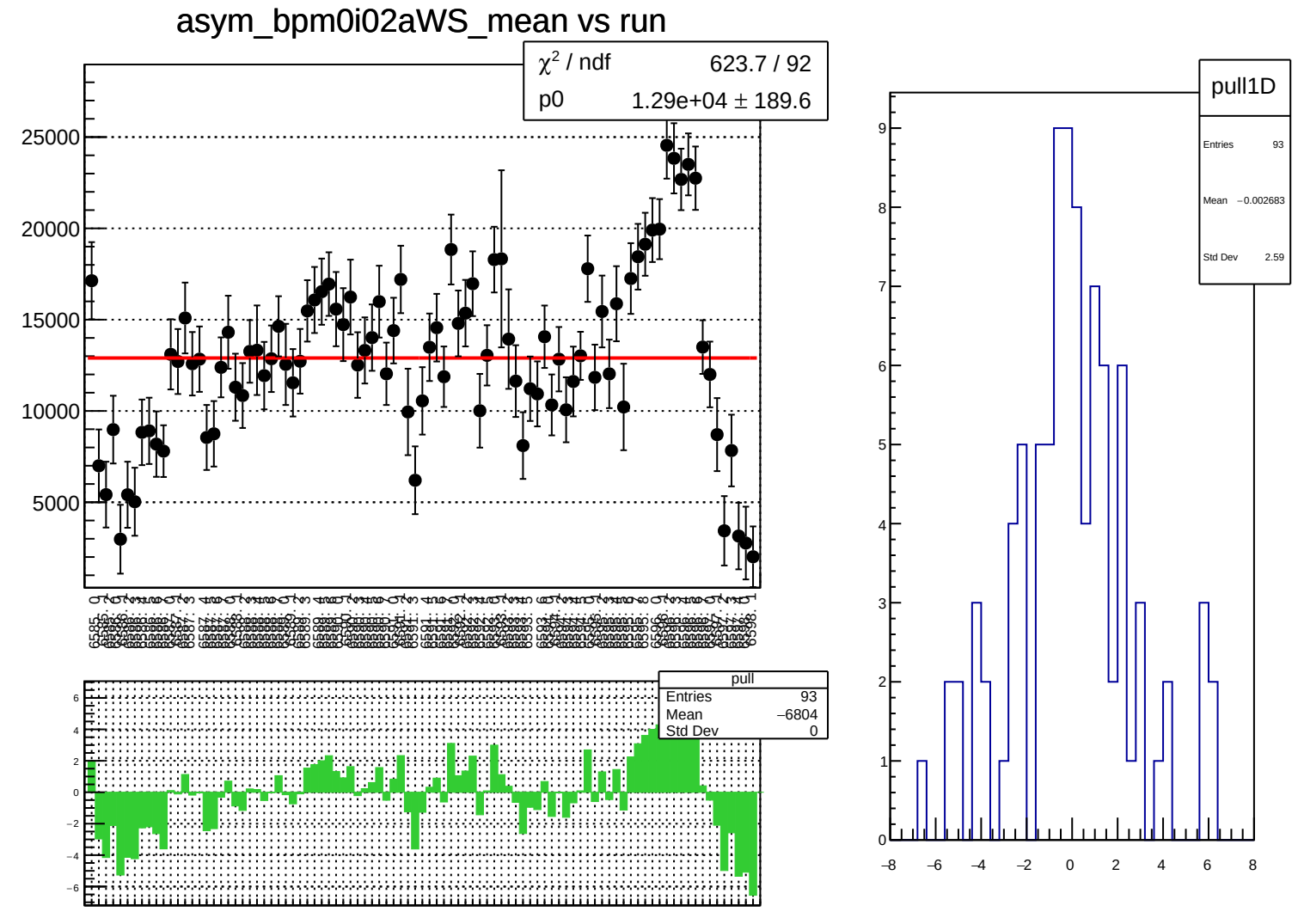

pull1D
Entries 93
Mean 0.01788
Std Dev 1.189

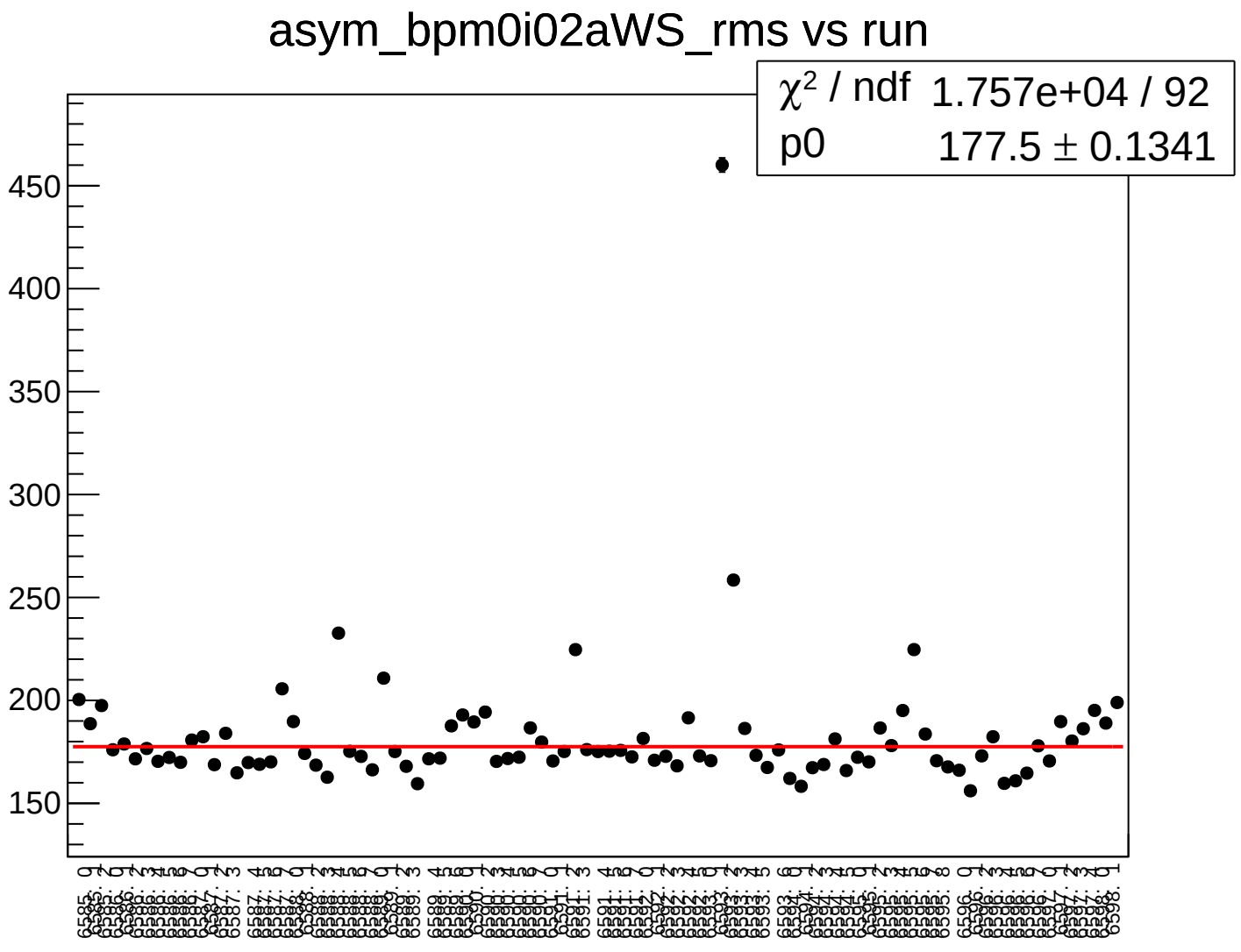

asym_bcm0l02_rms vs run
χ² / ndf 1.742e+04 / 92
p0 152.4 ± 0.1151
400
350
300
250
200
150

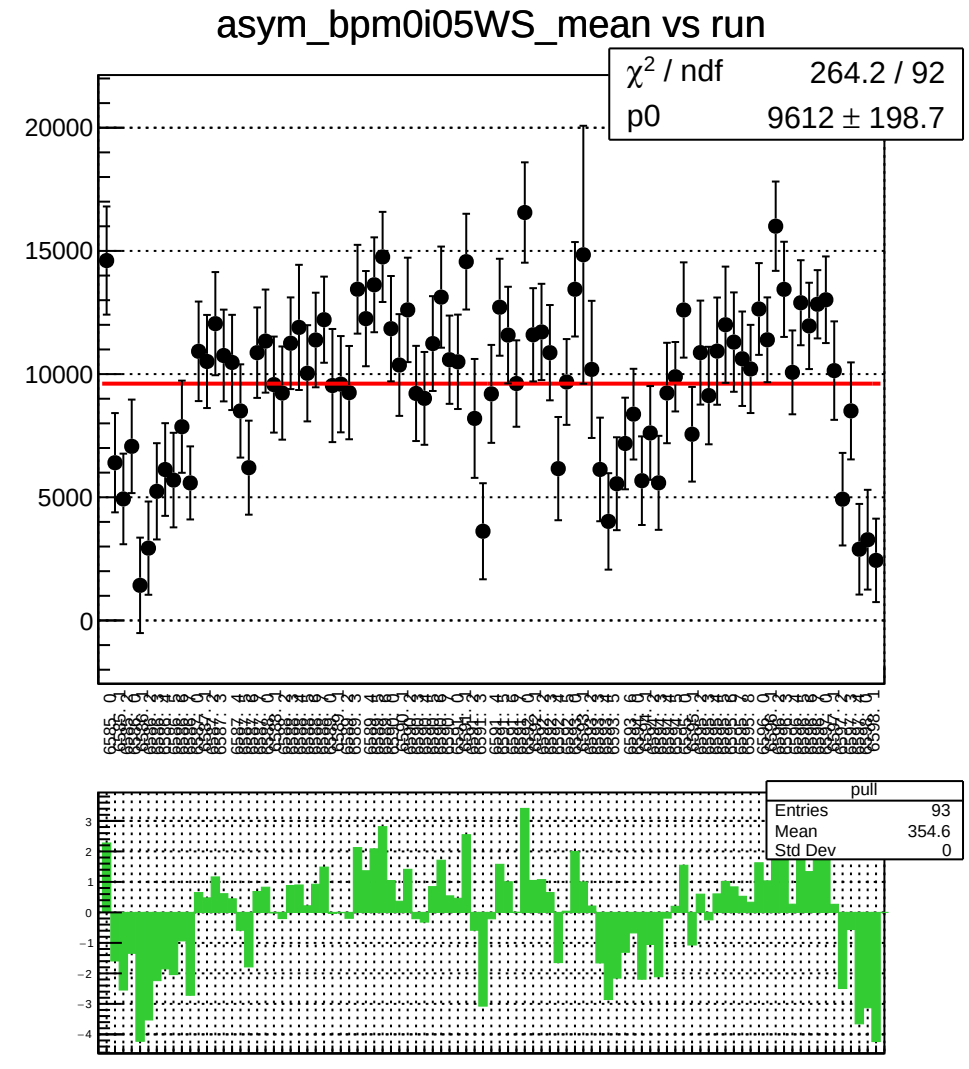

asym_bpm0i02WS_mean vs run
χ² / ndf 916.5 / 92
p0 1.365e+04 ± 195.2
pull
Entries 93
Mean 472.2
Std Dev 0

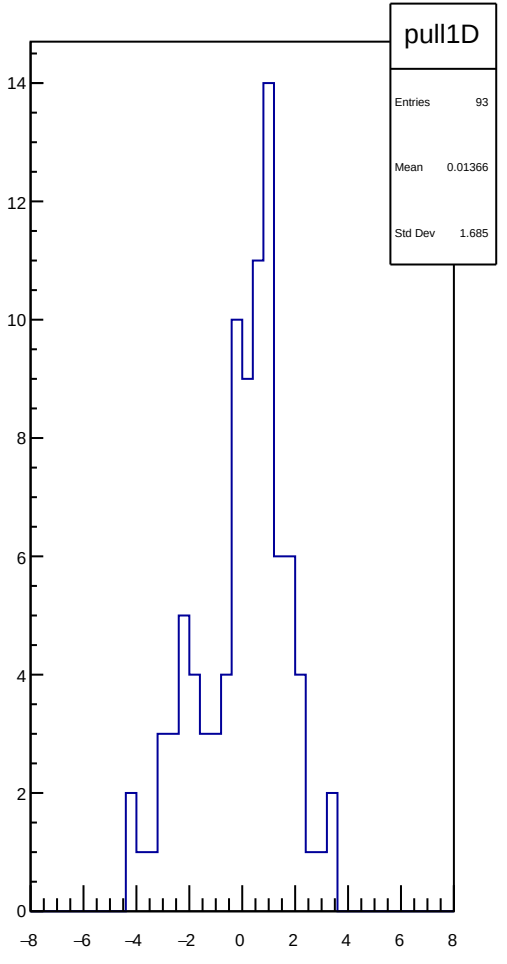

pull1D
Entries 93
Mean 0.2274
Std Dev 2.836

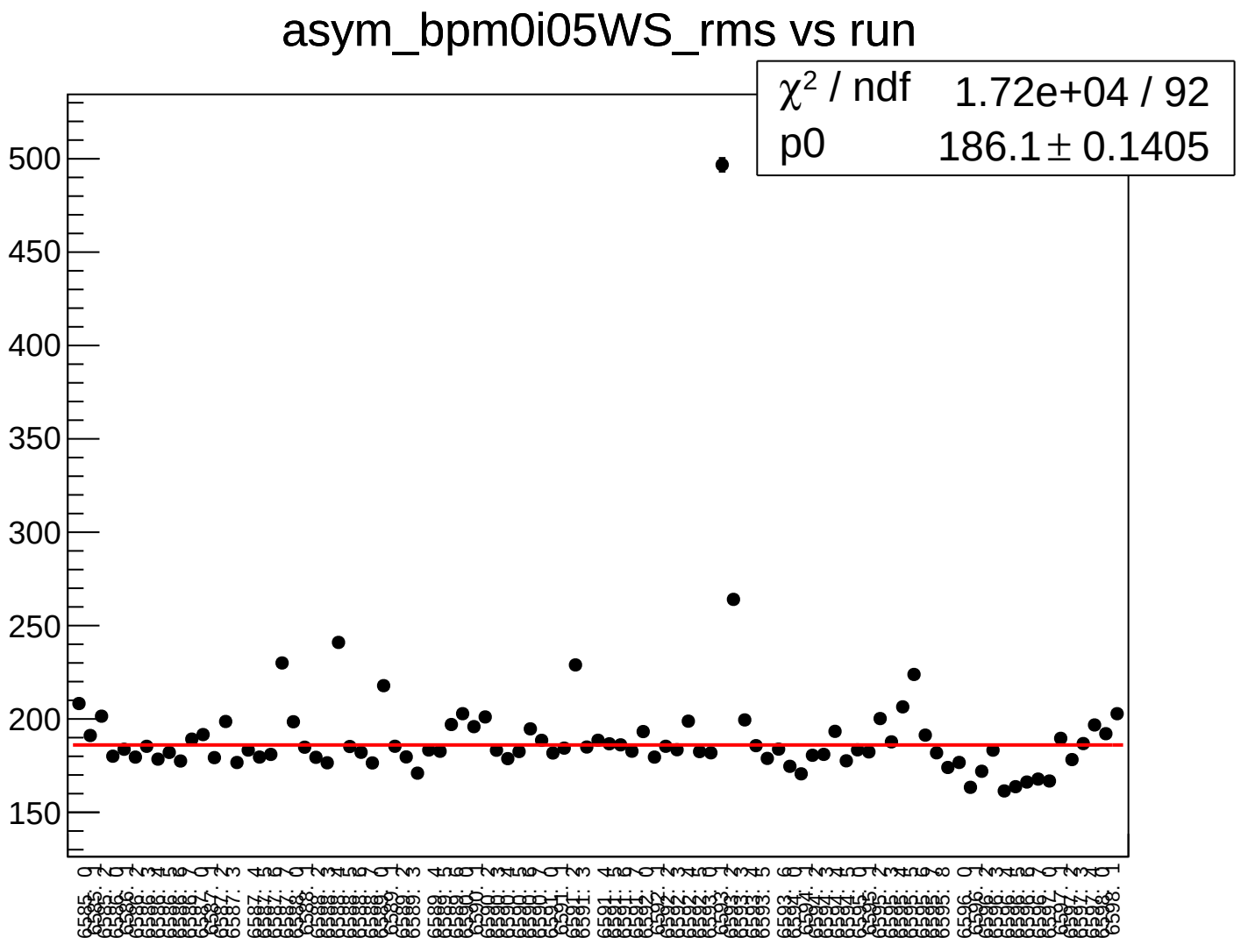

asym_bpm0i02WS_rms vs run
χ^2 / ndf 2.059e+04 / 92
p0 182.6 ± 0.138
500
450
400
350
300
250
200
150

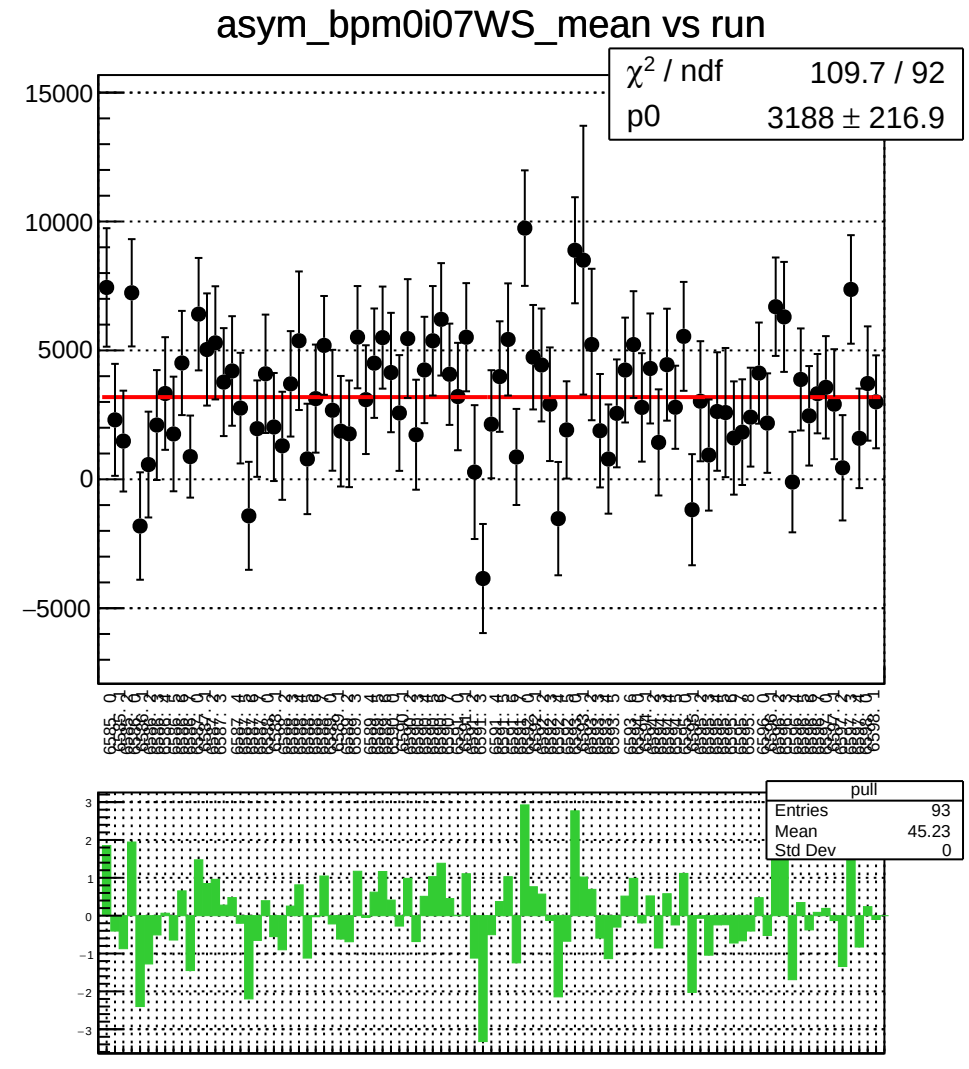

asym_bpm0i02aWS_mean vs run
χ² / ndf 623.7 / 92
p0 1.29e+04 ± 189.6
25000
20000
15000
10000
5000
pull
Entries 93
Mean −6804
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 93
Mean −0.002683
Std Dev 2.59
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

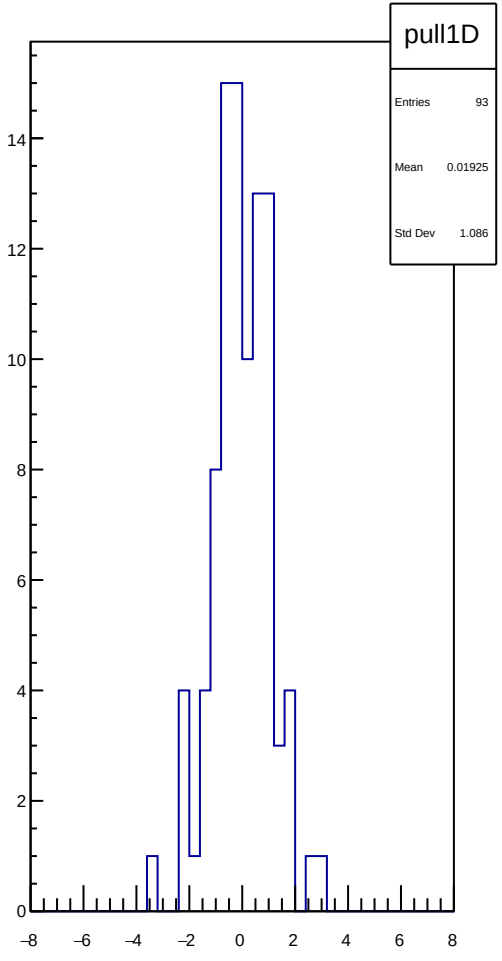

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.757e+04 / 92
p0 177.5 ± 0.1341
450
400
350
300
250
200
150

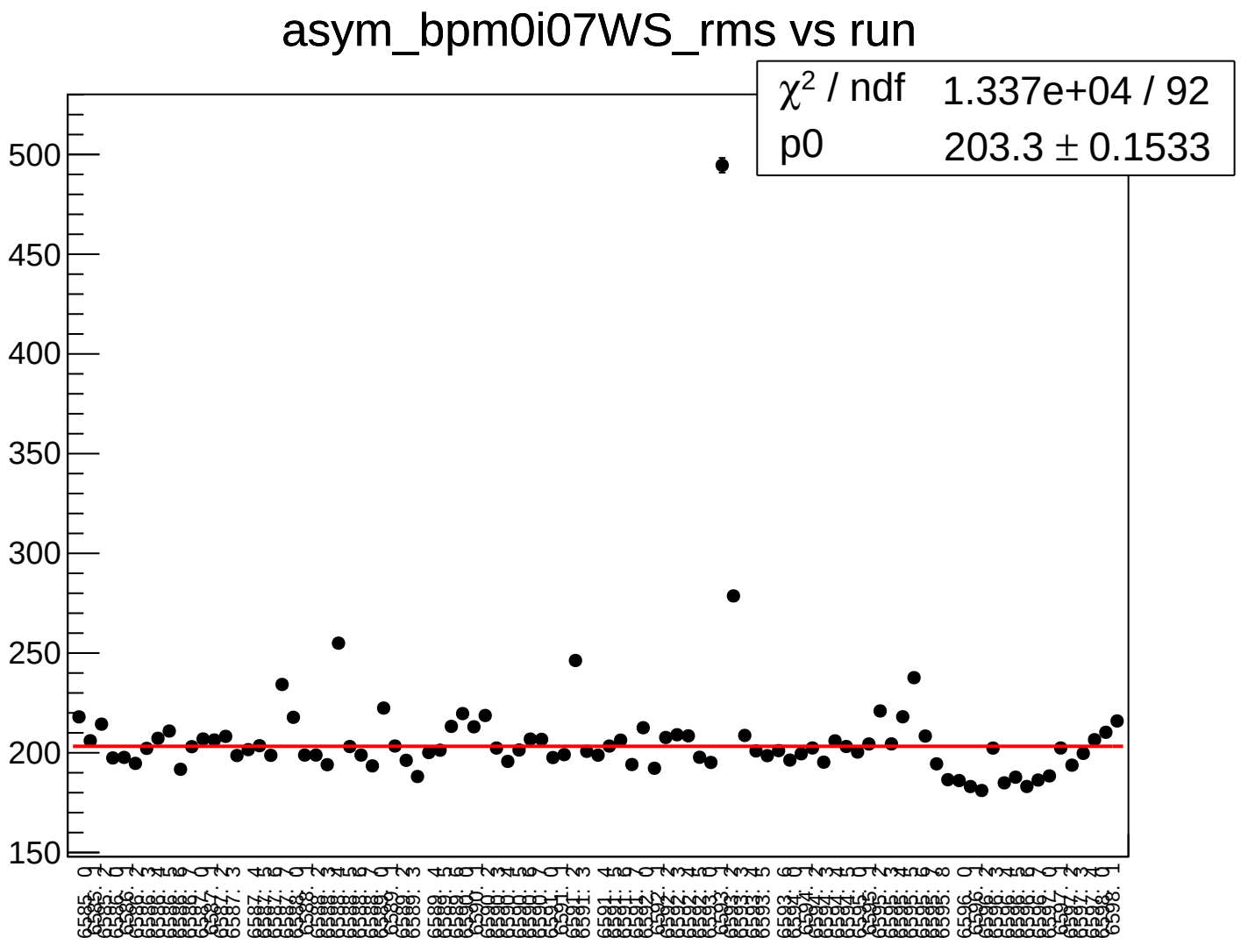

asym_bpm0i05WS_mean vs run
χ² / ndf 264.2 / 92
p0 9612 ± 198.7
20000
15000
10000
5000
0
pull
Entries 93
Mean 354.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4

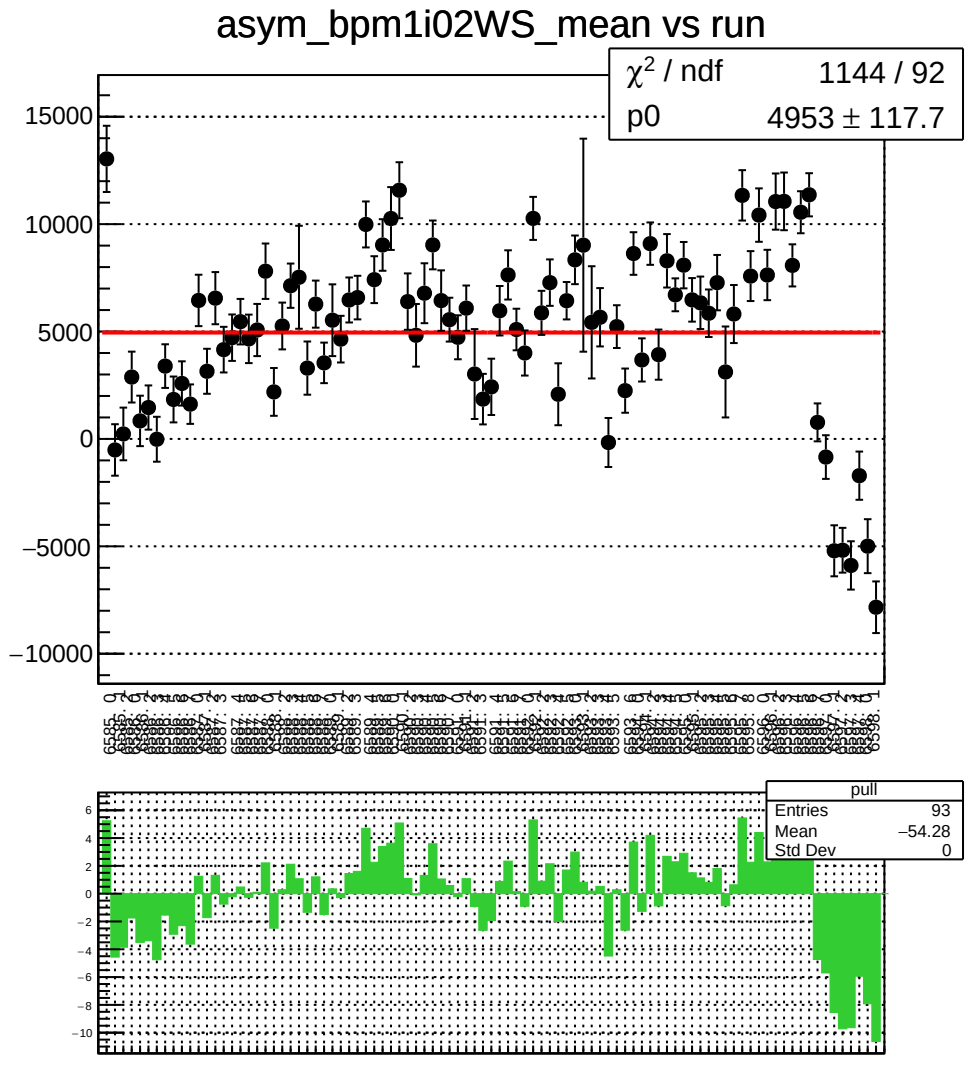

pull1D
Entries 93
Mean 0.01366
Std Dev 1.685
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

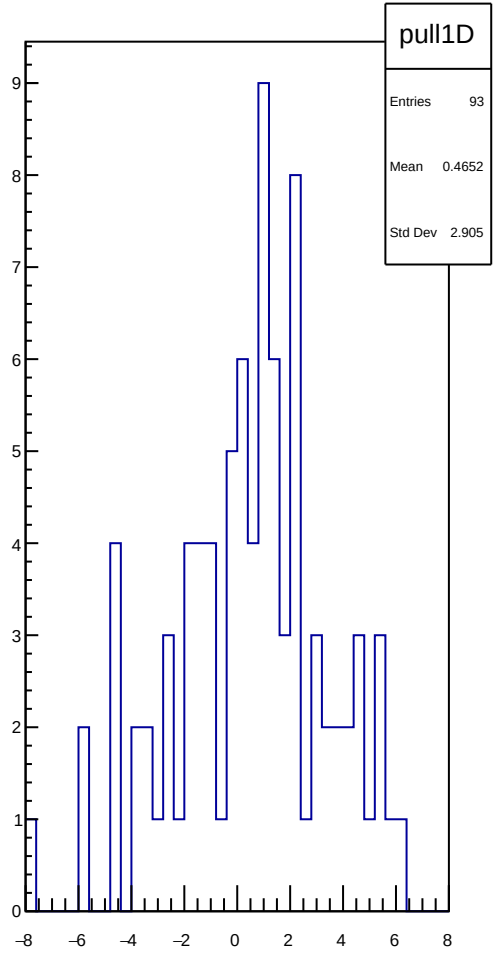

asym_bpm0i05WS_rms vs run
χ² / ndf 1.72e+04 / 92
p0 186.1 ± 0.1405
500
450
400
350
300
250
200
150

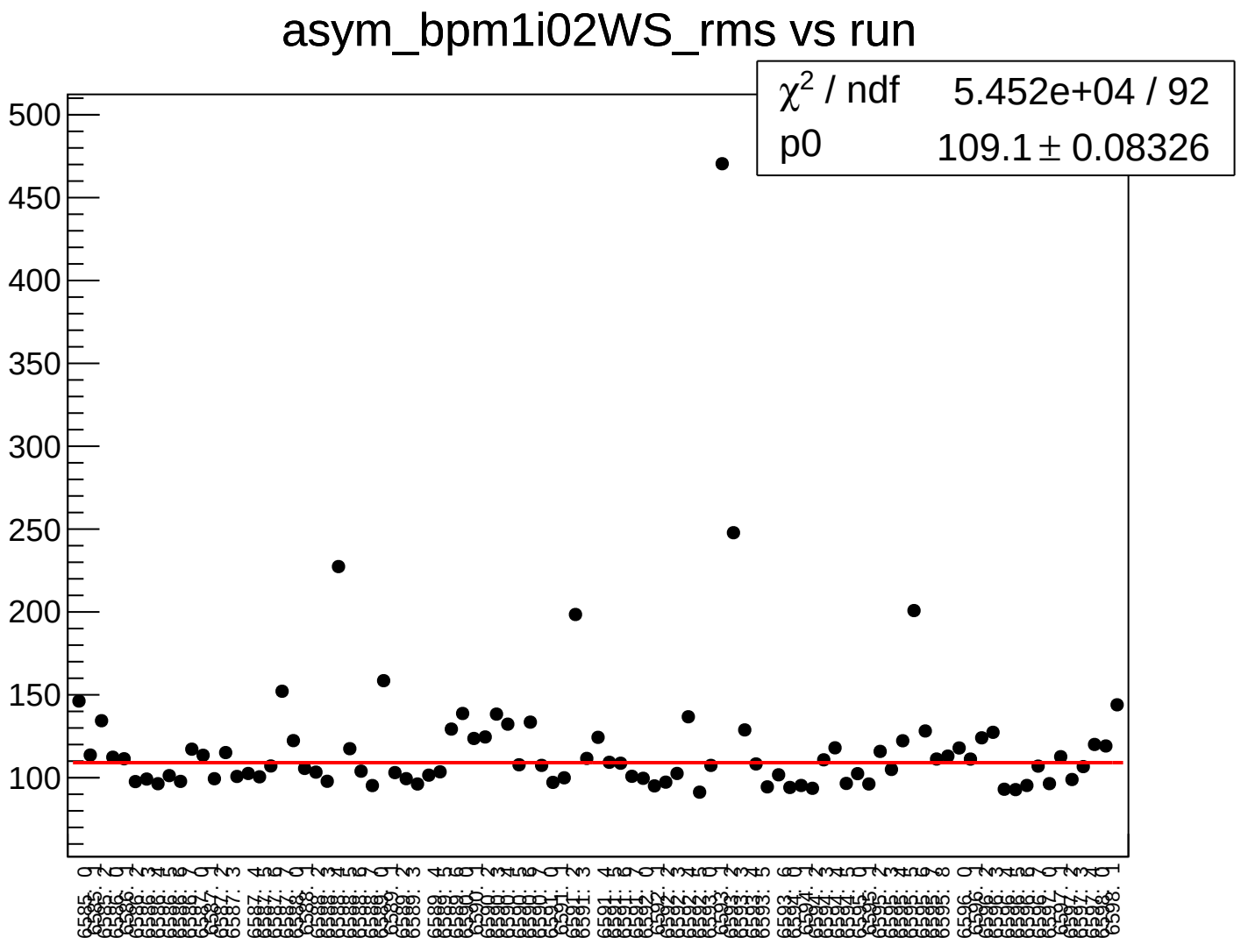

asym_bpm0i07WS_mean vs run
χ² / ndf 109.7 / 92
p0 3188 ± 216.9
15000
10000
5000
0
−5000
pull
Entries 93
Mean 45.23
Std Dev 0
3
2
1
0
−1
−2
−3

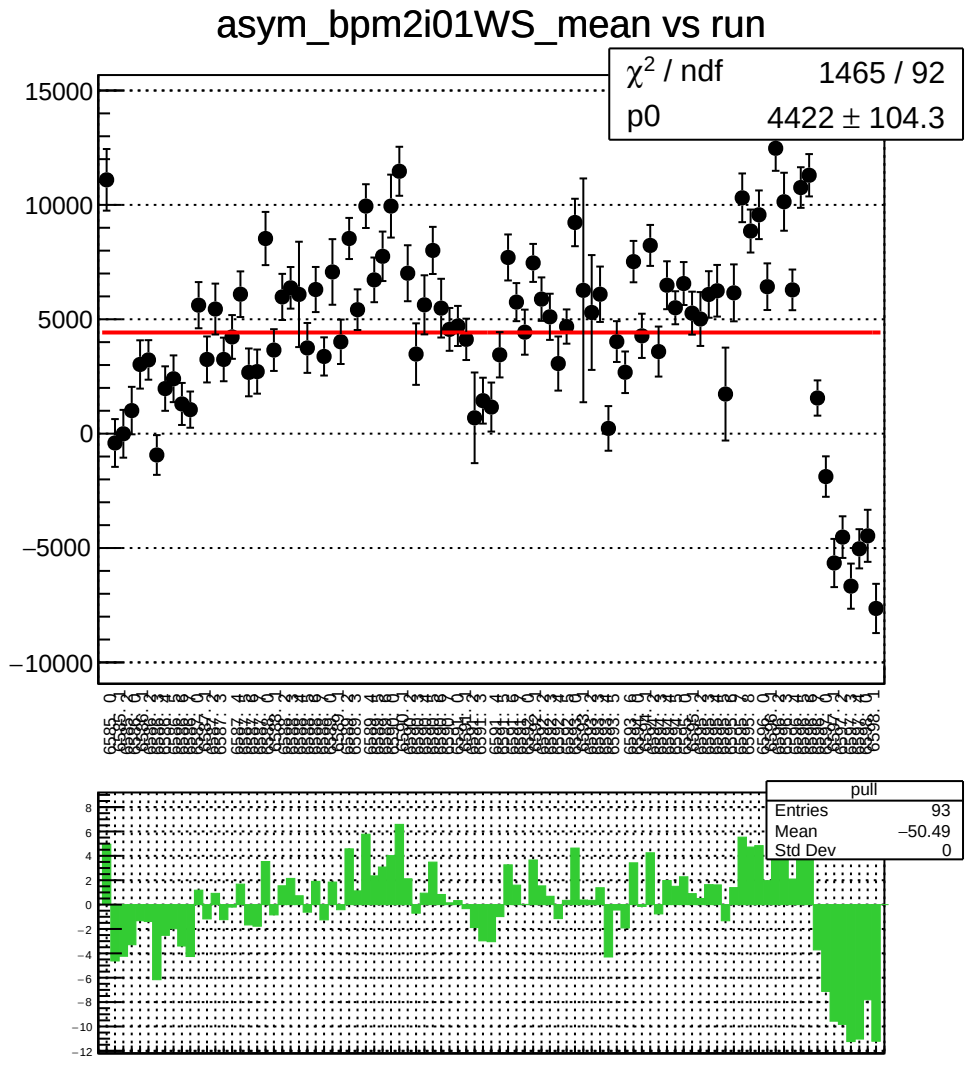

pull1D
Entries 93
Mean 0.01925
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

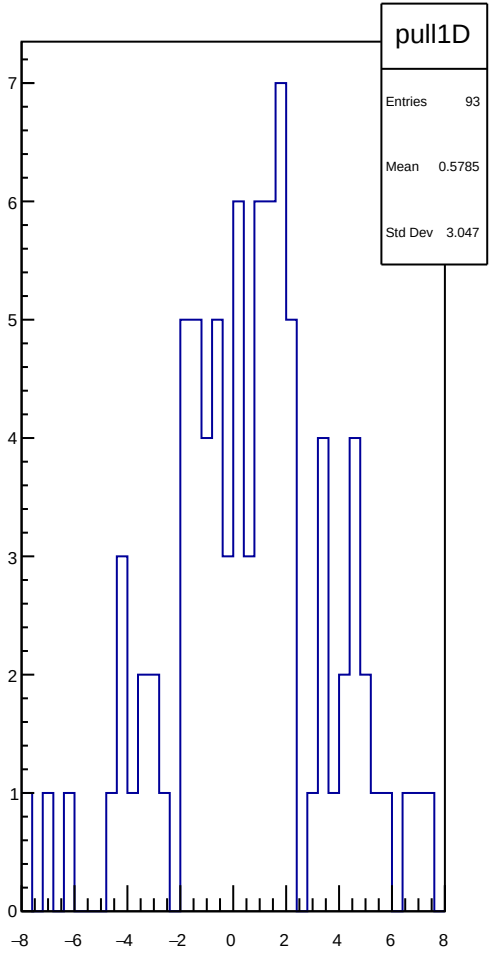

asym_bpm0i07WS_rms vs run
χ² / ndf 1.337e+04 / 92
p0 203.3 ± 0.1533
500
450
400
350
300
250
200
150

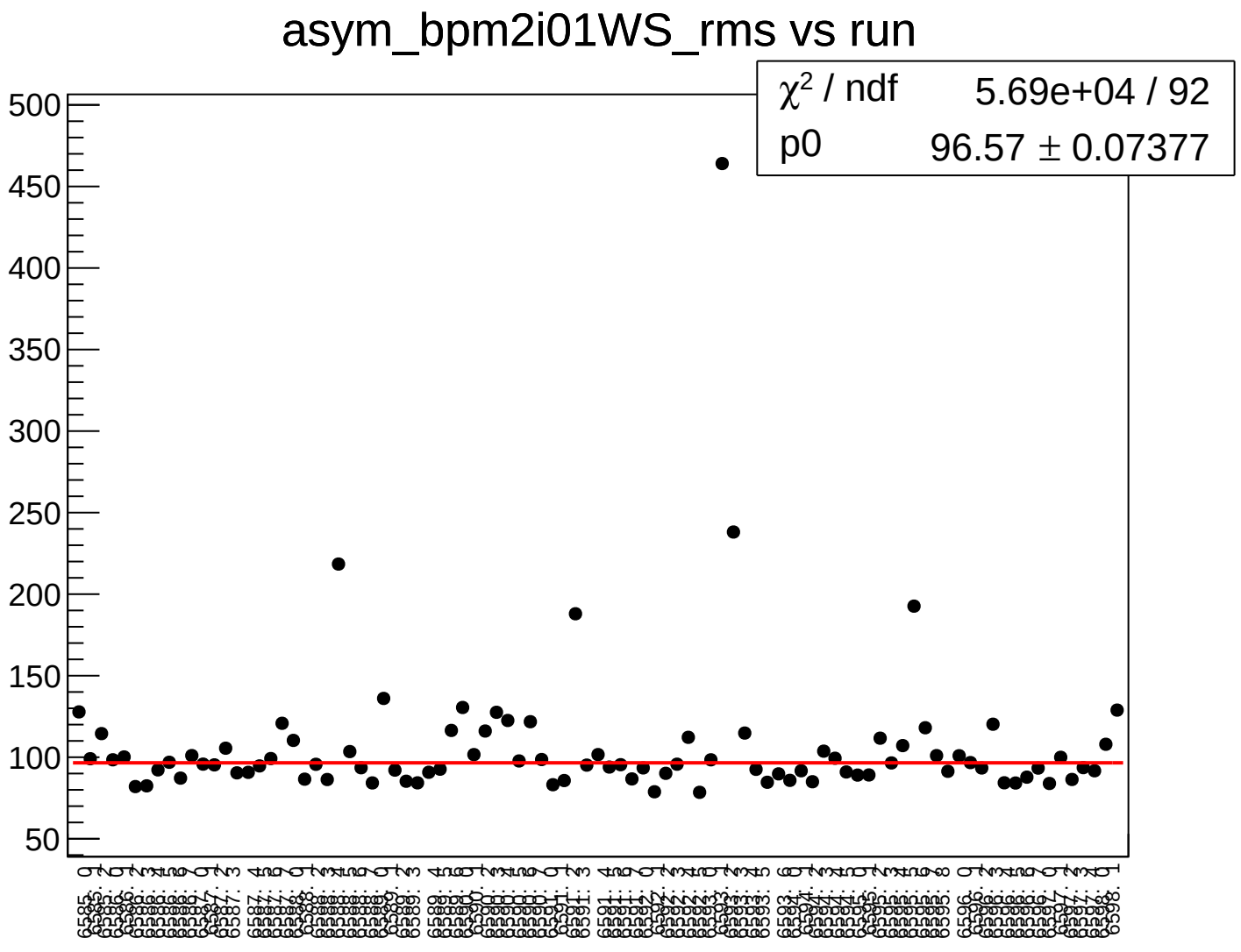

asym_bpm1i02WS_mean vs run
χ² / ndf 1144 / 92
p0 4953 ± 117.7
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −54.28
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

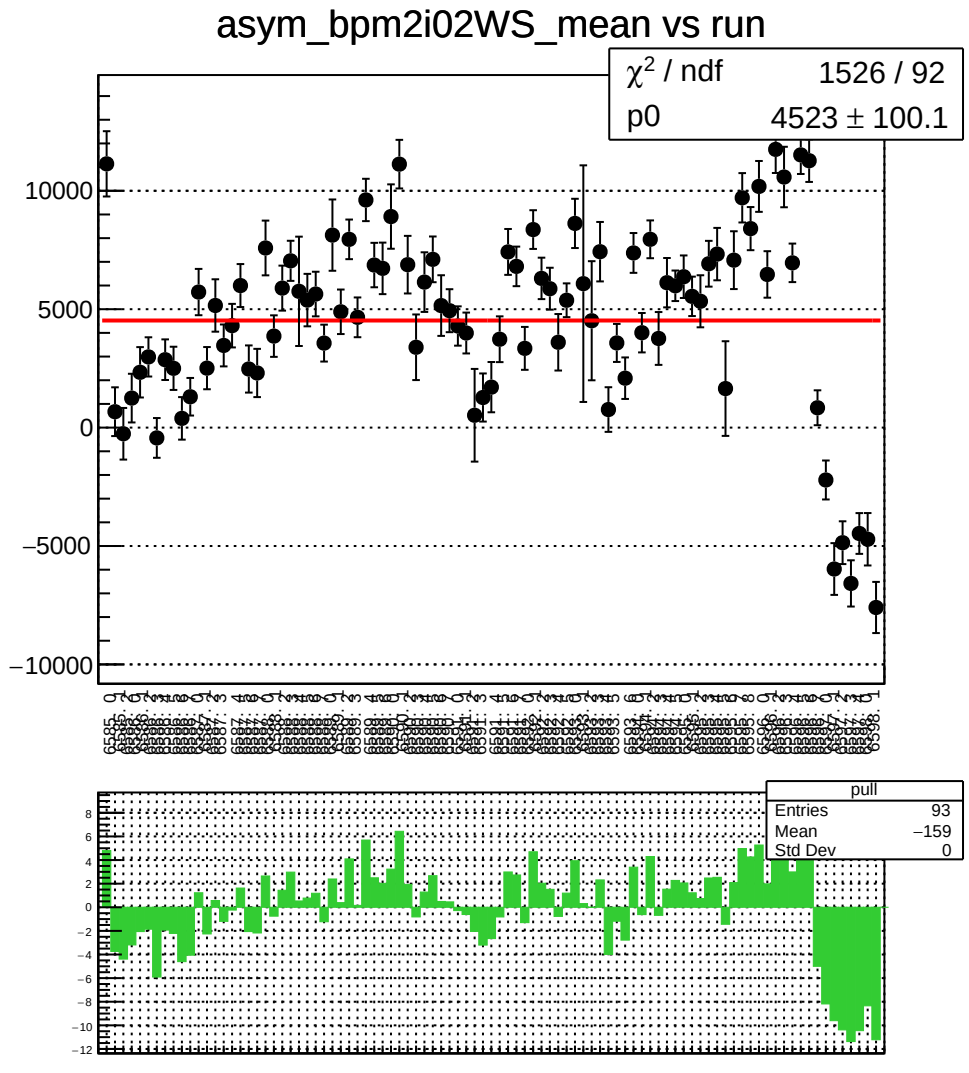

pull1D
Entries 93
Mean 0.4652
Std Dev 2.905
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

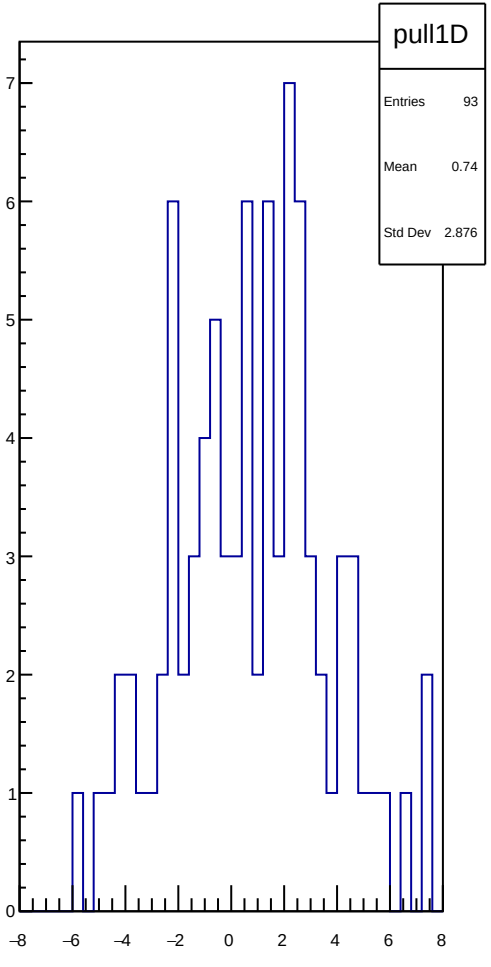

asym_bpm1i02WS_rms vs run
χ^2 / ndf 5.452e+04 / 92
p0 109.1 ± 0.08326
500
450
400
350
300
250
200
150
100

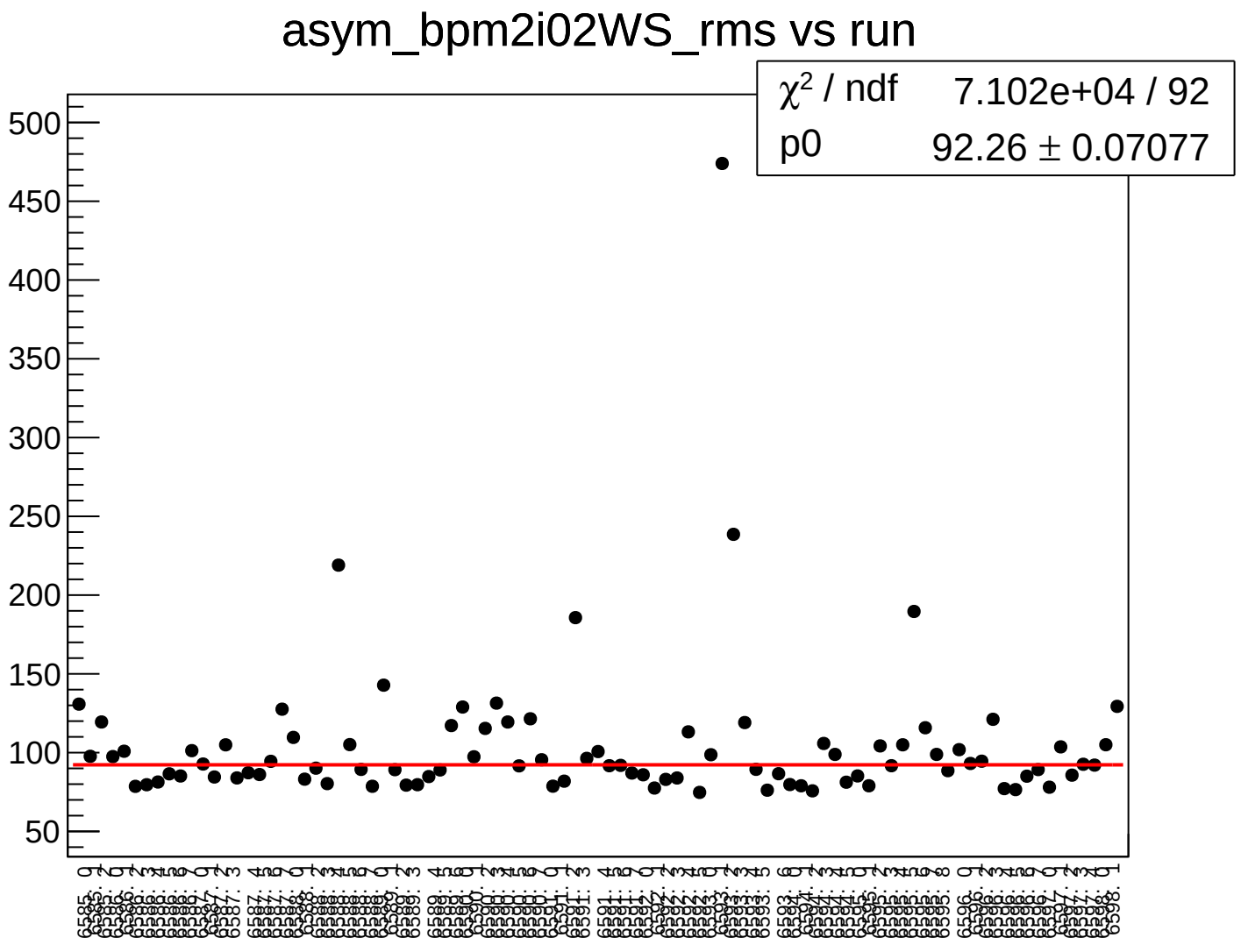

asym_bpm2i01WS_mean vs run
χ² / ndf 1465 / 92
p0 4422 ± 104.3
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −50.49
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12

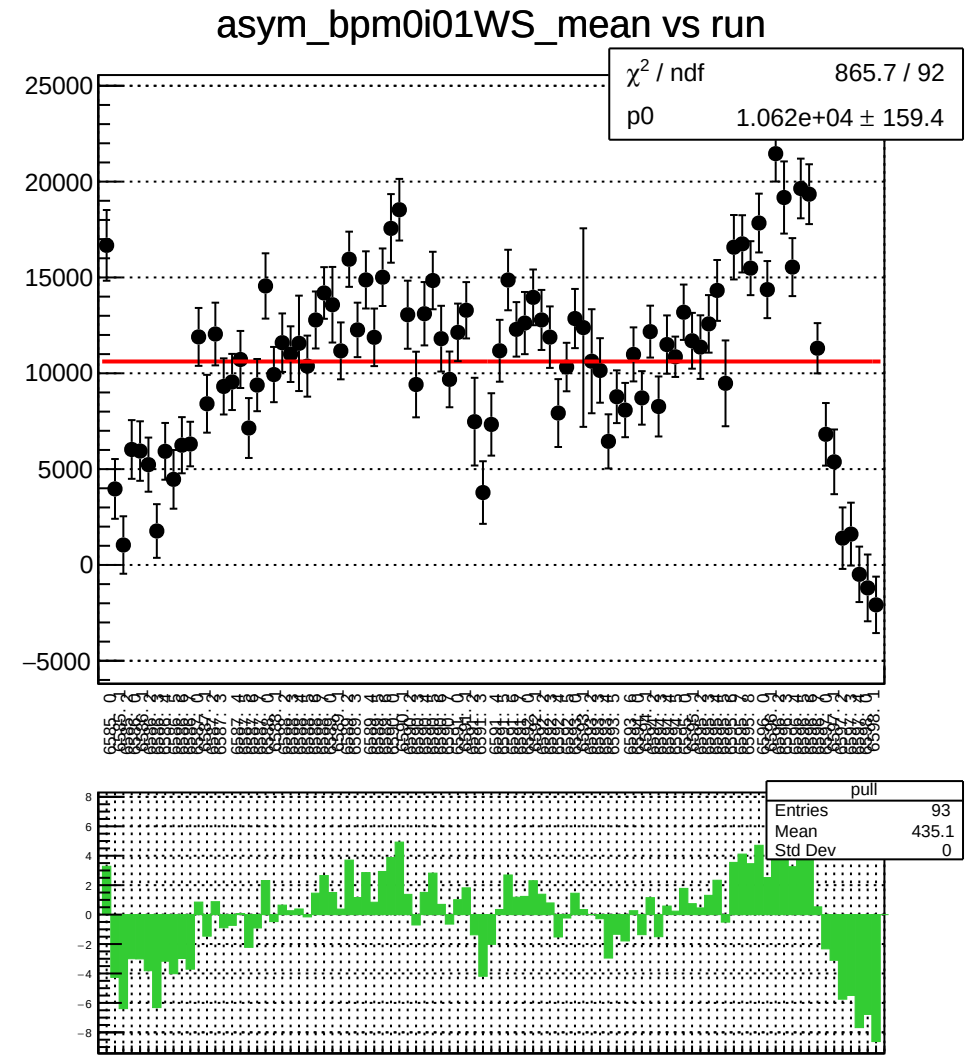

pull1D
Entries 93
Mean 0.5785
Std Dev 3.047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

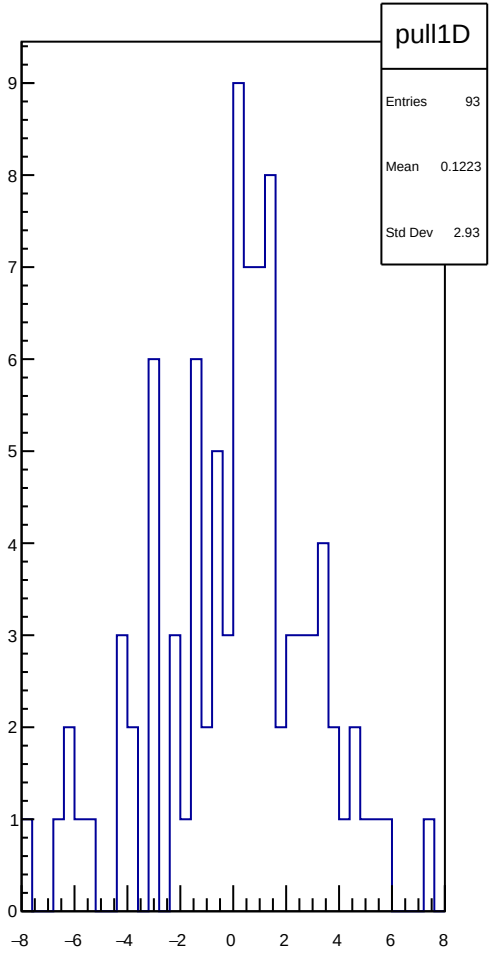

asym_bpm2i01WS_rms vs run
χ^2 / ndf 5.69e+04 / 92
p0 96.57 ± 0.07377
500
450
400
350
300
250
200
150
100
50

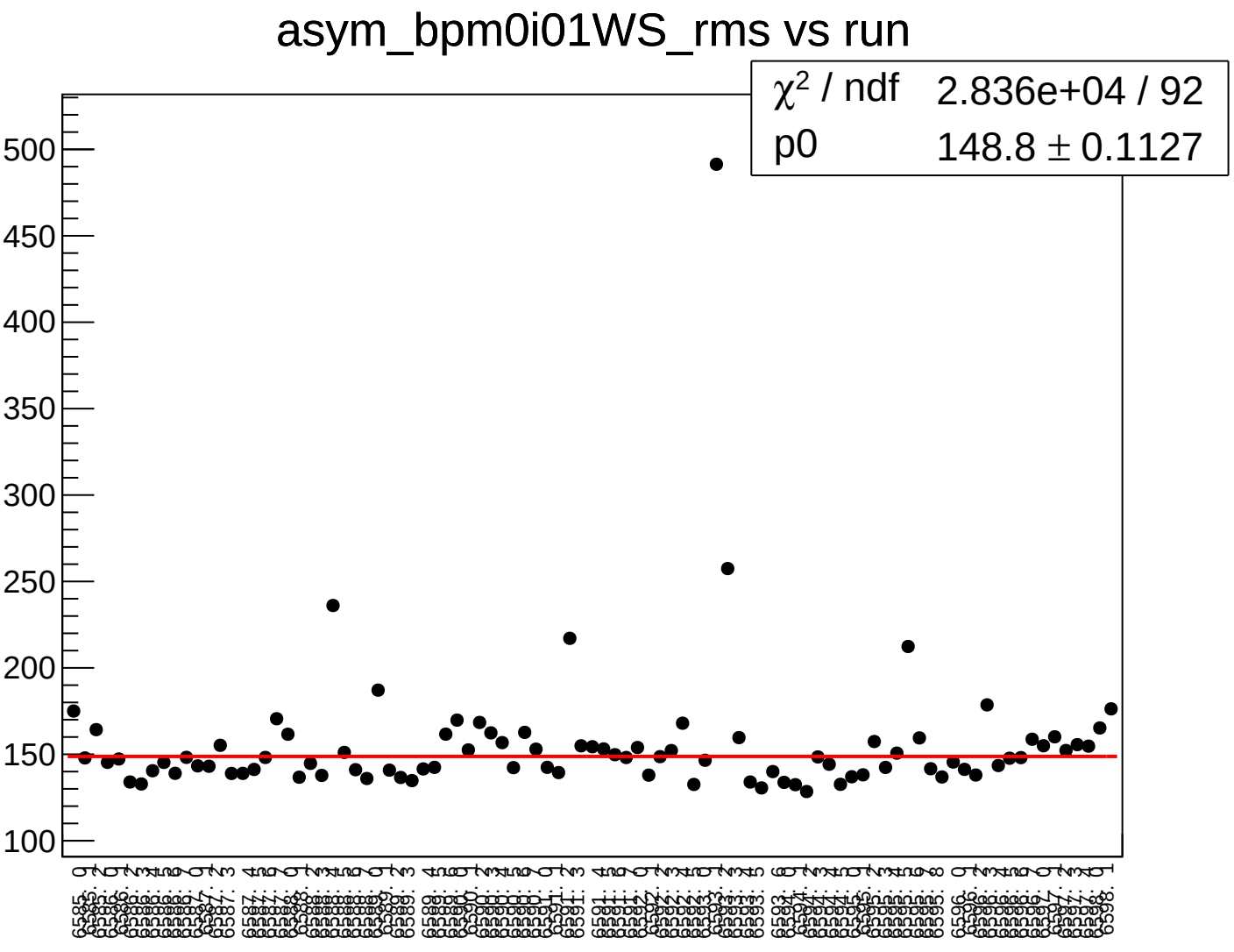

asym_bpm2i02WS_mean vs run
χ² / ndf 1526 / 92
p0 4523 ± 100.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −159
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
−12

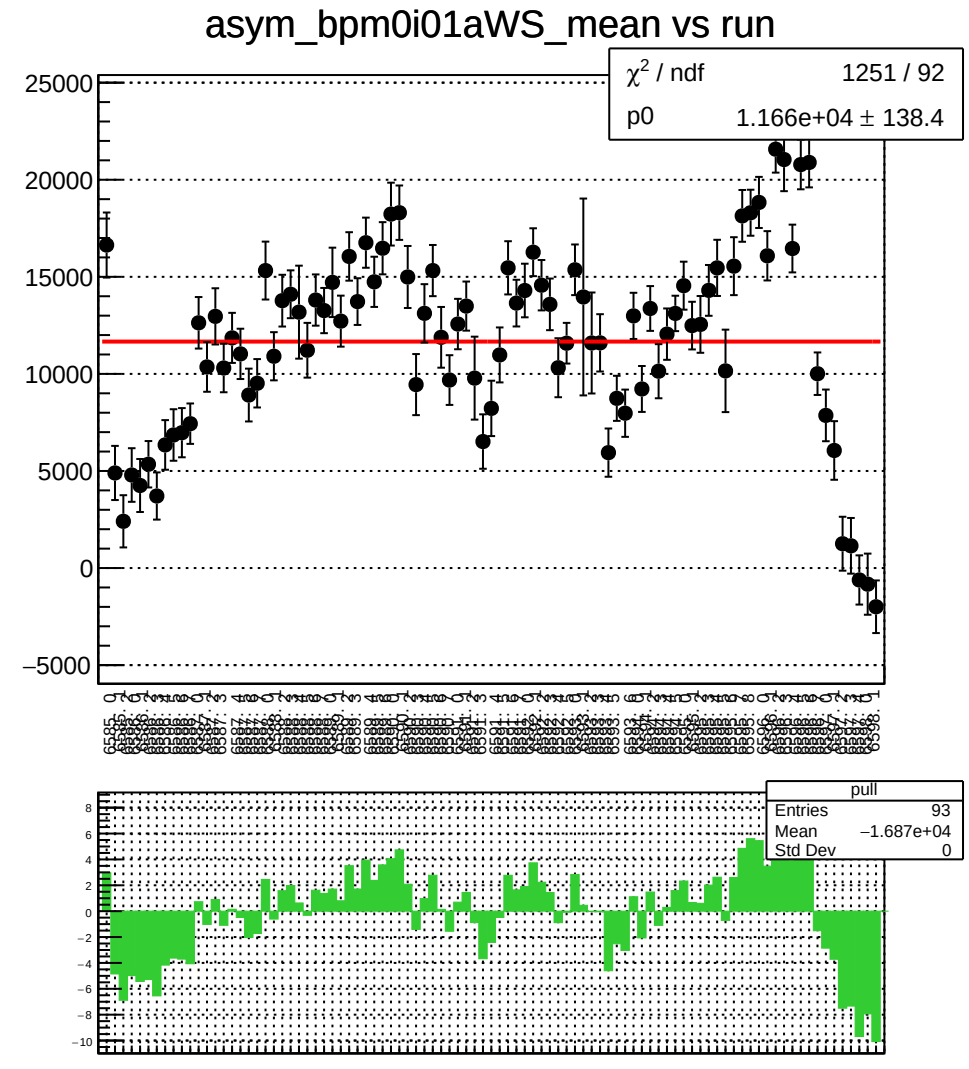

pull1D
Entries 93
Mean 0.74
Std Dev 2.876
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

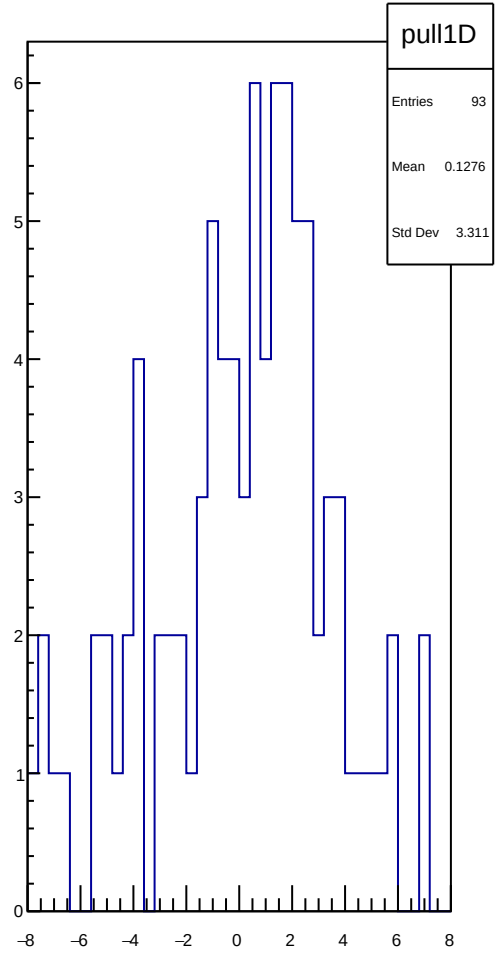

asym_bpm2i02WS_rms vs run
χ^2 / ndf 7.102e+04 / 92
p0 92.26 ± 0.07077
500
450
400
350
300
250
200
150
100
50

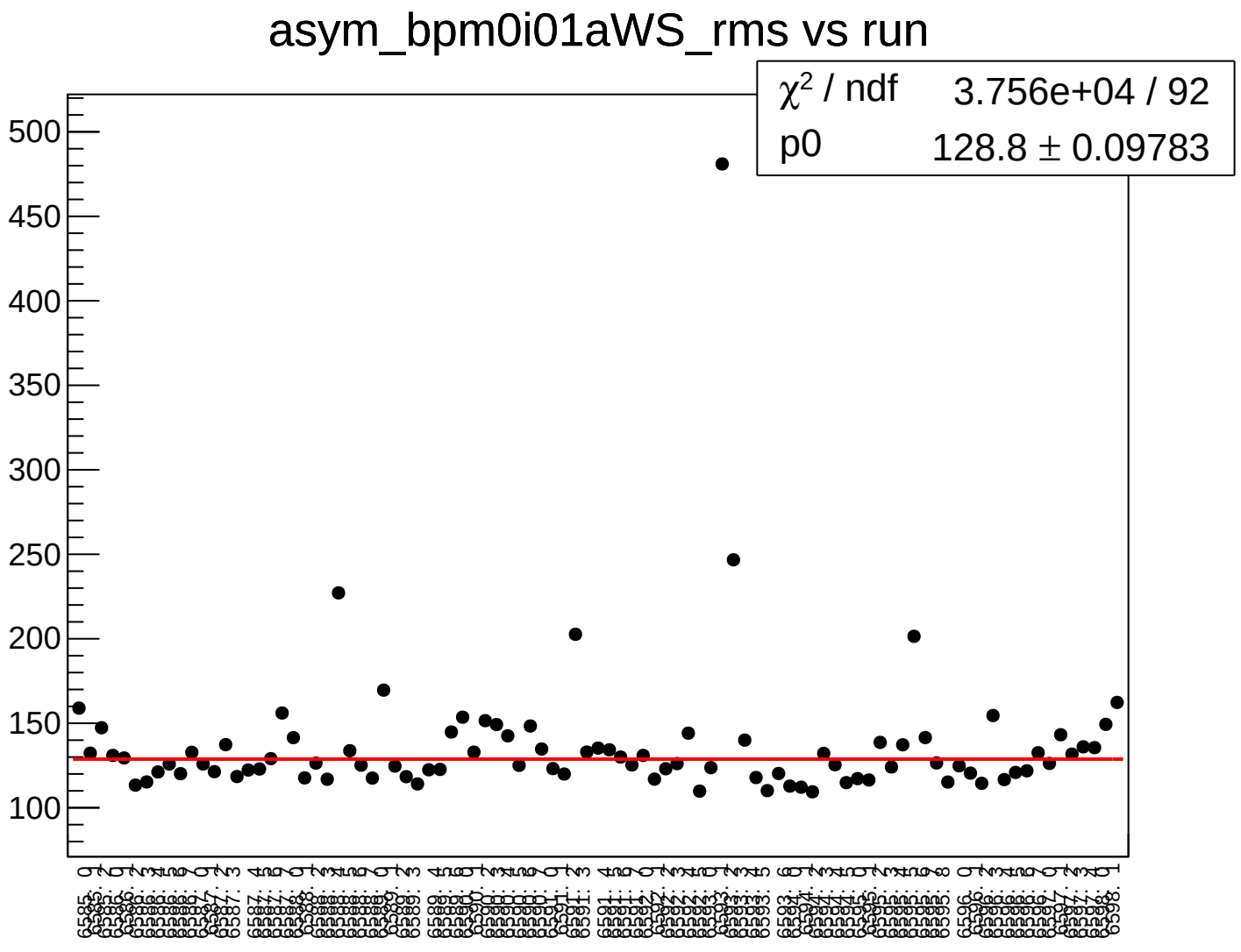

asym_bpm0i01WS_mean vs run
χ² / ndf 865.7 / 92
p0 1.062e+04 ± 159.4
pull
Entries 93
Mean 435.1
Std Dev 0

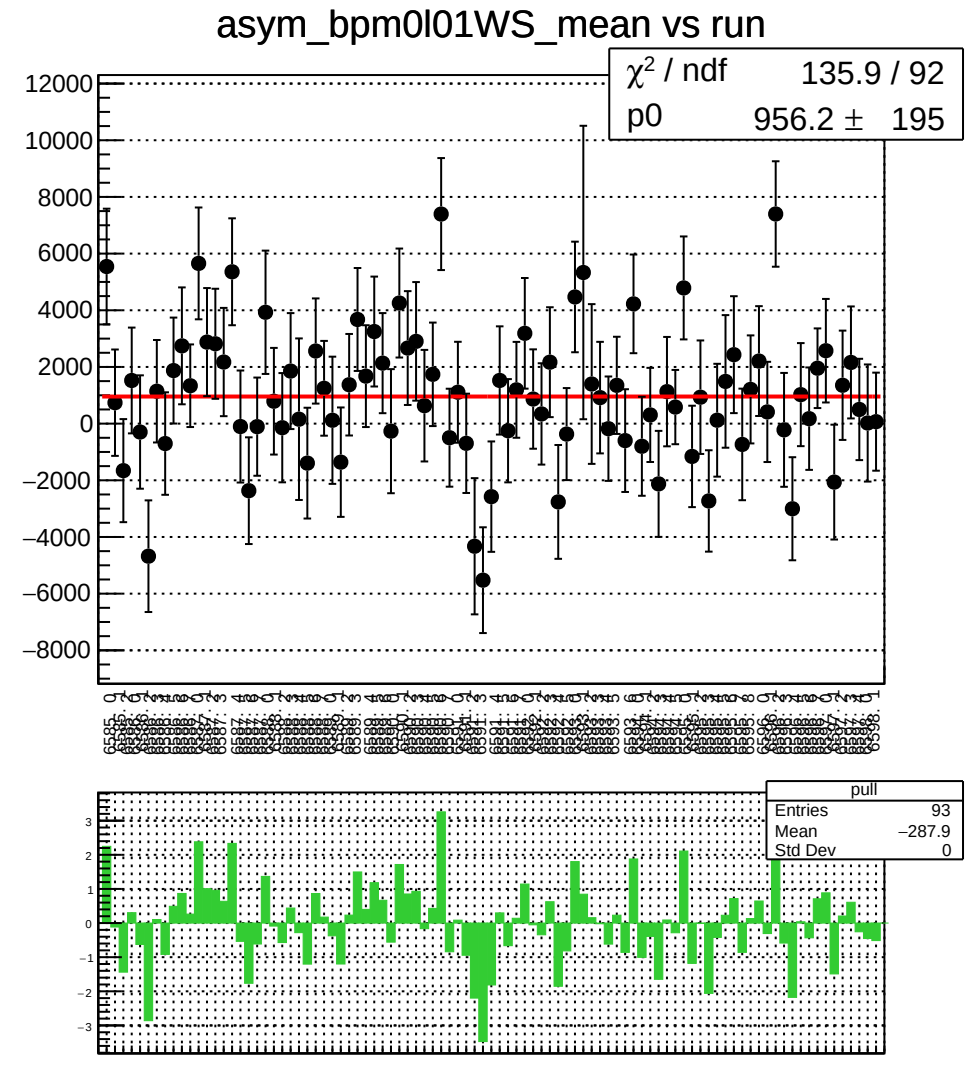

pull1D
Entries 93
Mean 0.1223
Std Dev 2.93

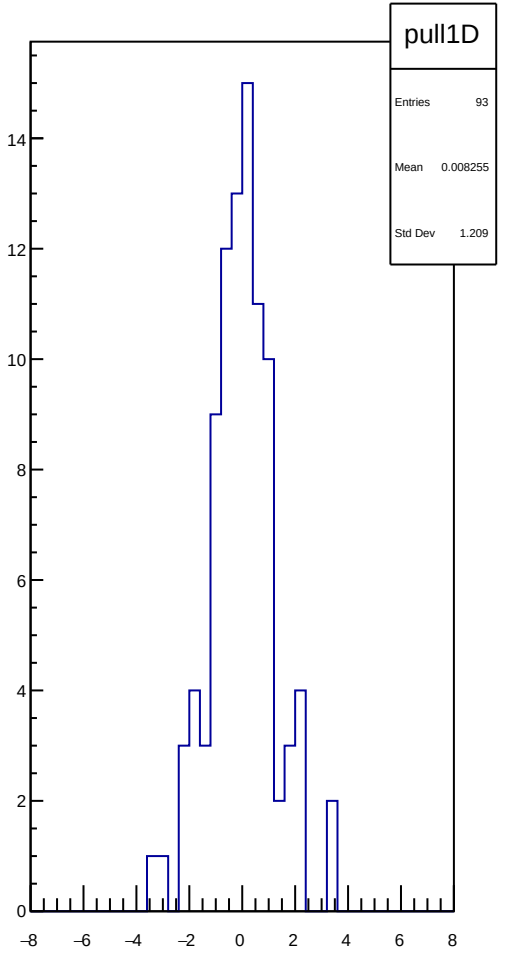

asym_bpm0i01WS_rms vs run
χ² / ndf 2.836e+04 / 92
p0 148.8 ± 0.1127
500
450
400
350
300
250
200
150
100

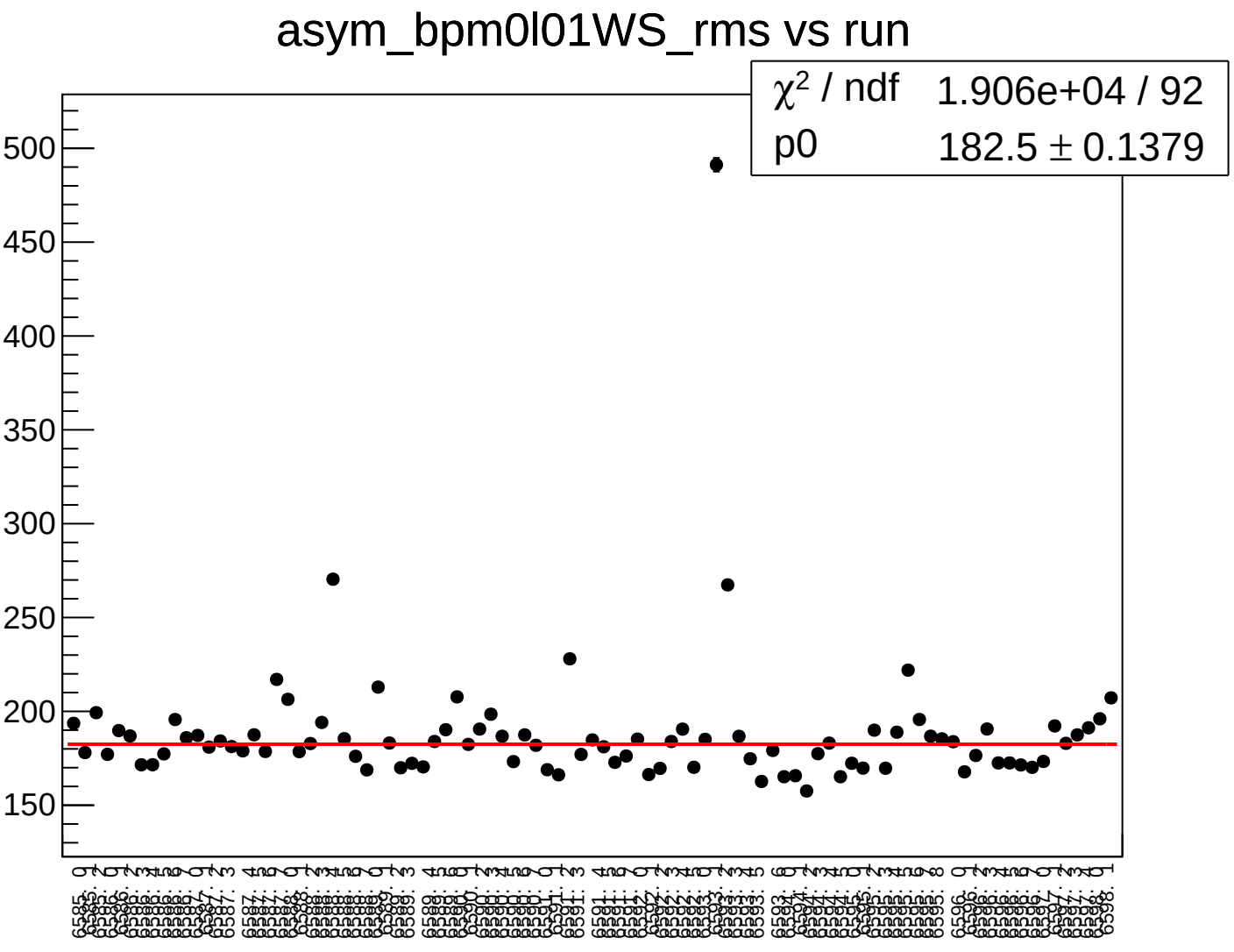

asym_bpm0i01aWS_mean vs run
χ² / ndf 1251 / 92
p0 1.166e+04 ± 138.4
pull
Entries 93
Mean −1.687e+04
Std Dev 0

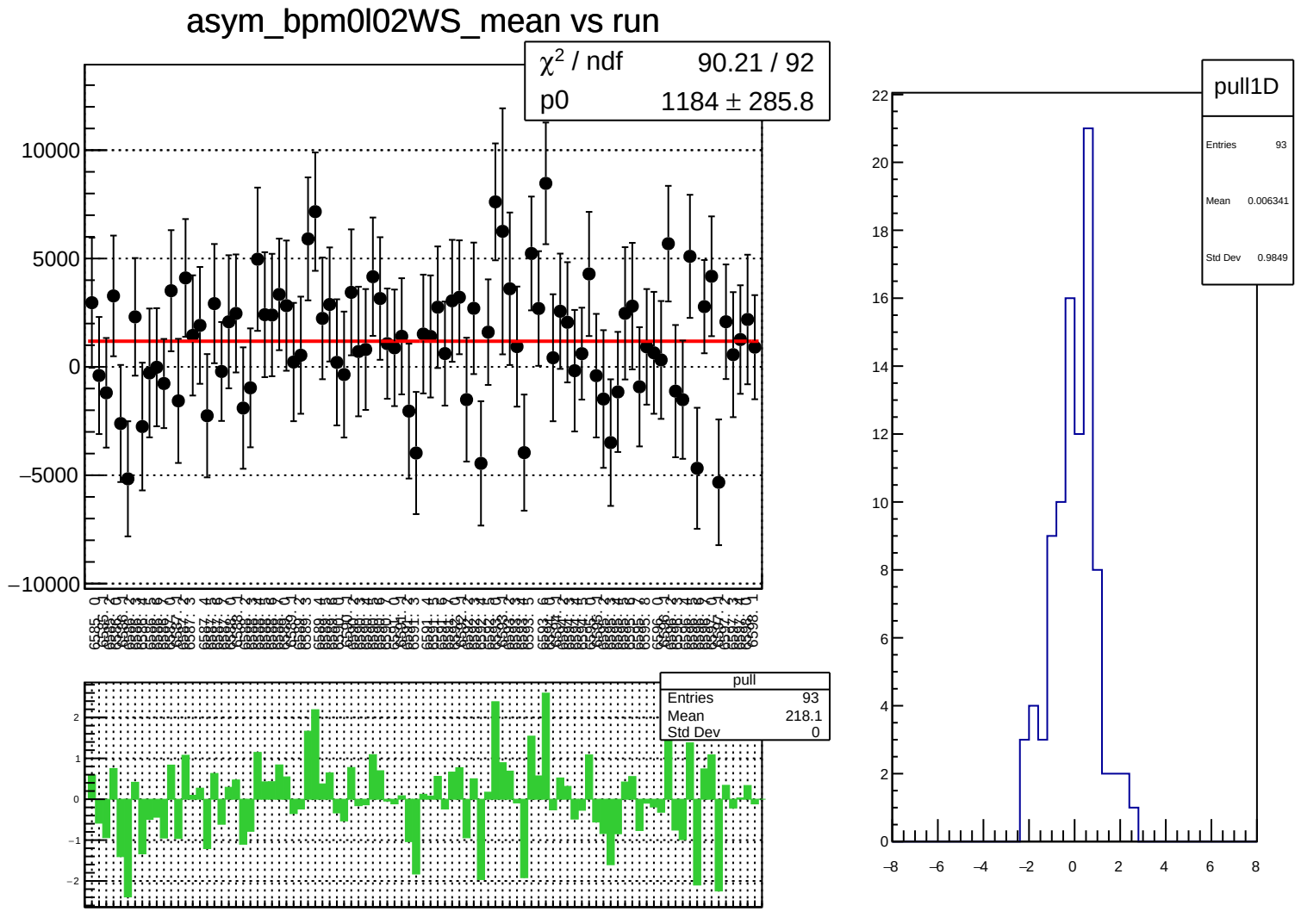

pull1D
Entries 93
Mean 0.1276
Std Dev 3.311

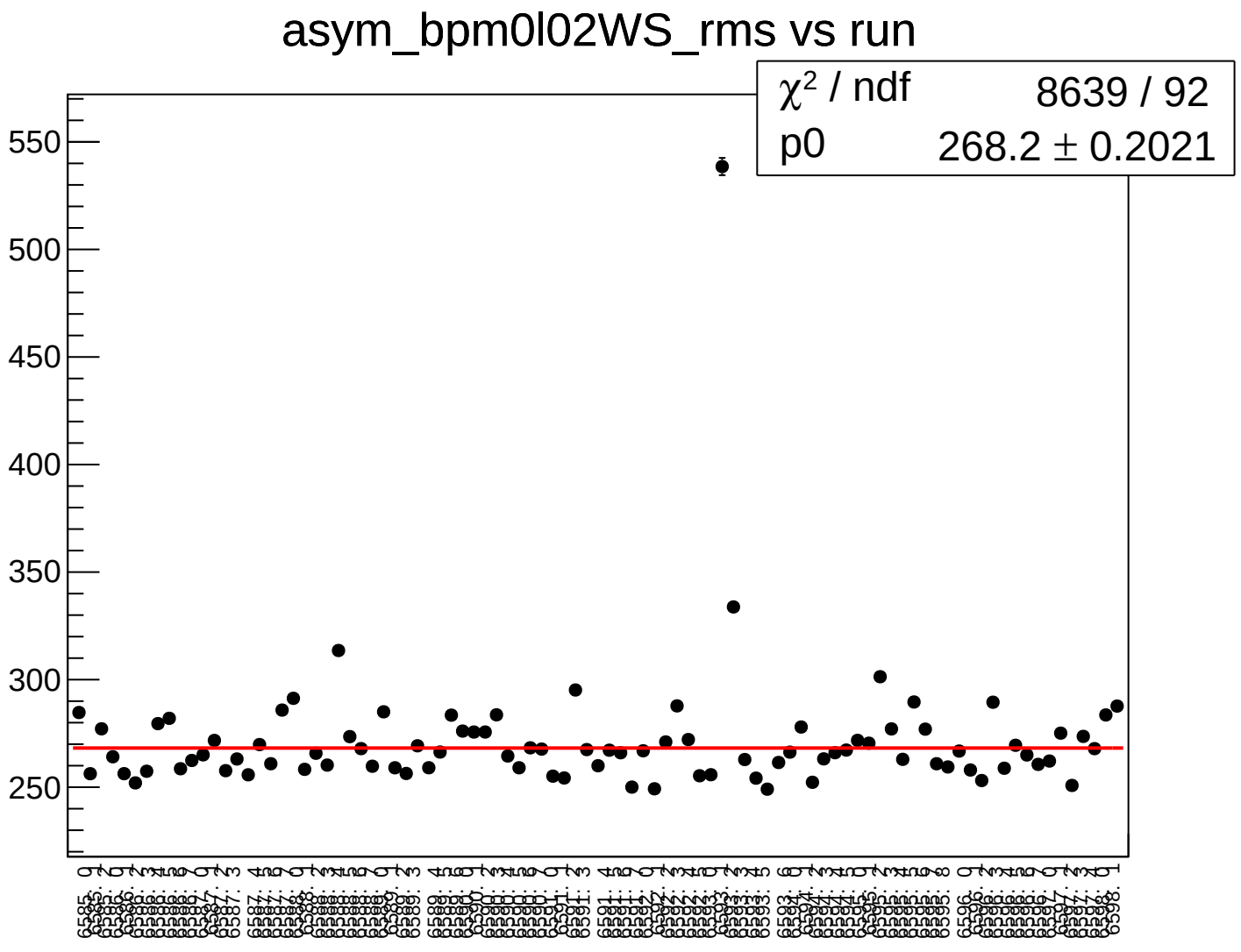

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 3.756e+04 / 92
p0 128.8 ± 0.09783
500
450
400
350
300
250
200
150
100

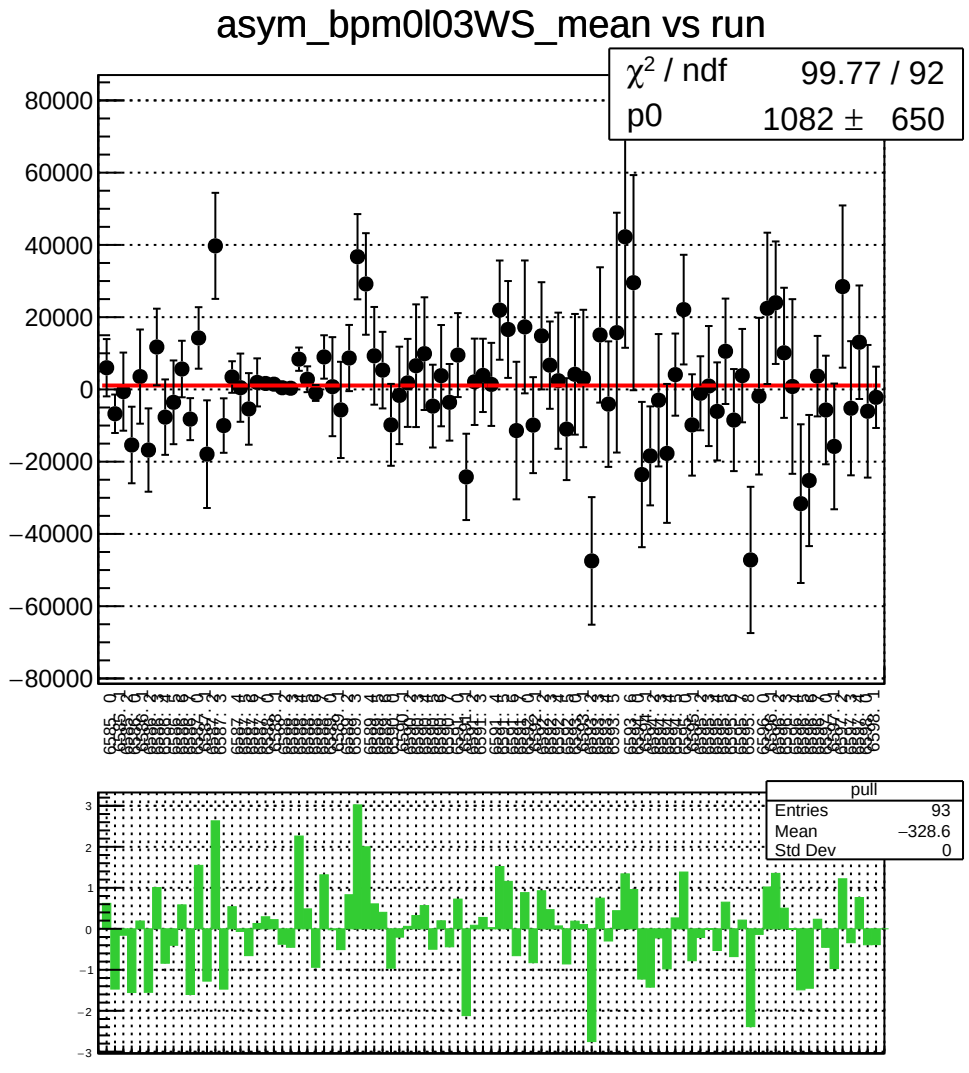

asym_bpm0l01WS_mean vs run
χ² / ndf 135.9 / 92
p0 956.2 ± 195
pull
Entries 93
Mean −287.9
Std Dev 0

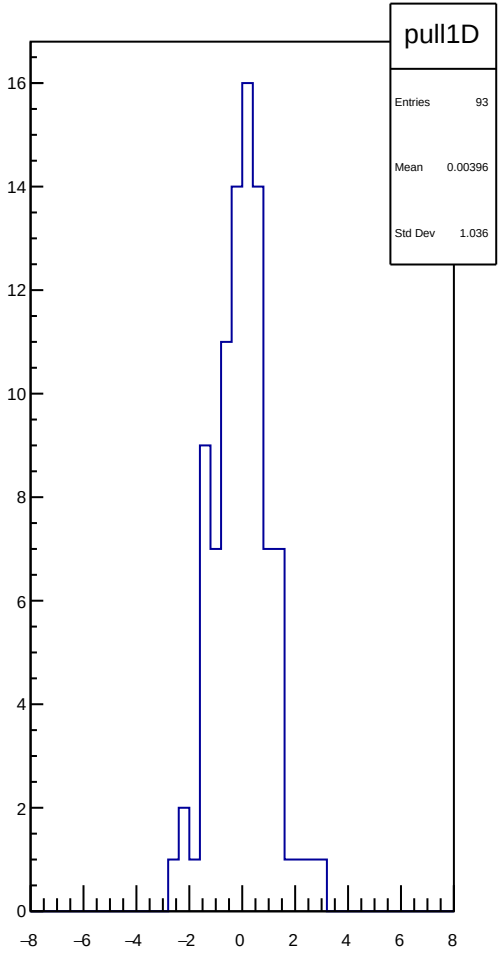

pull1D
Entries 93
Mean 0.008255
Std Dev 1.209

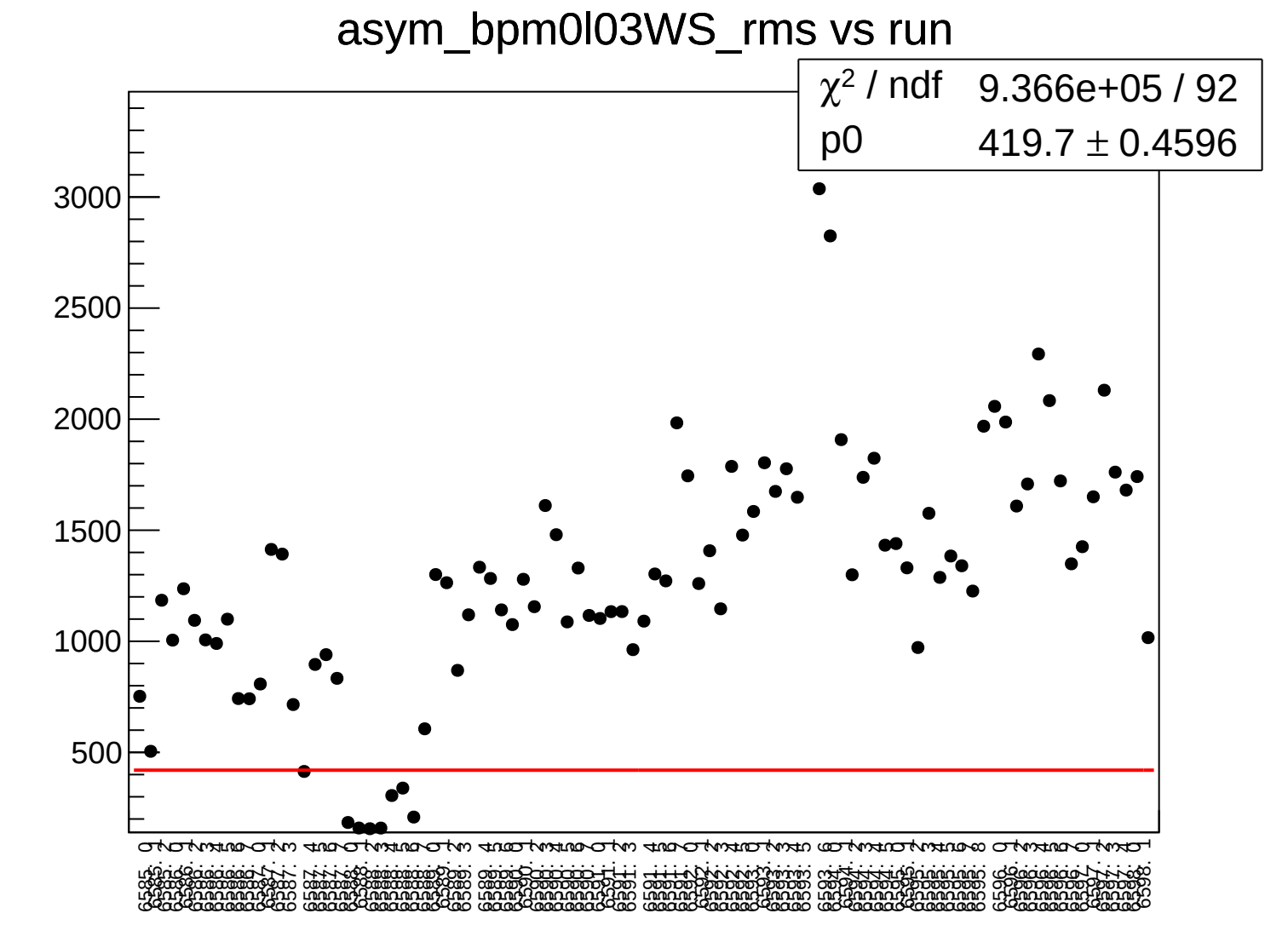

asym_bpm0l01WS_rms vs run
χ² / ndf 1.906e+04 / 92
p0 182.5 ± 0.1379
500
450
400
350
300
250
200
150

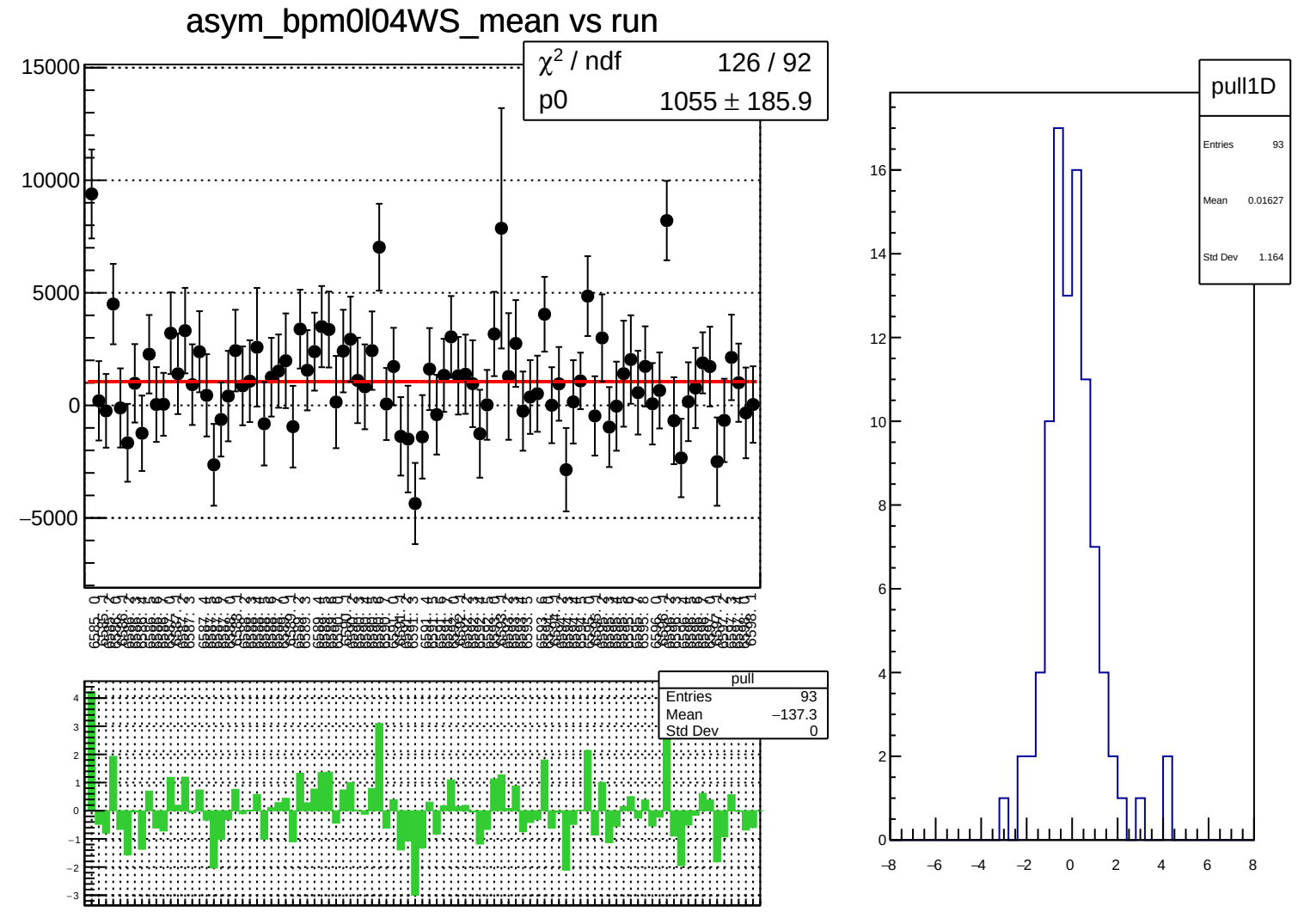

asym_bpm0l02WS_mean vs run
χ² / ndf 90.21 / 92
p0 1184 ± 285.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 218.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006341
Std Dev 0.9849
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

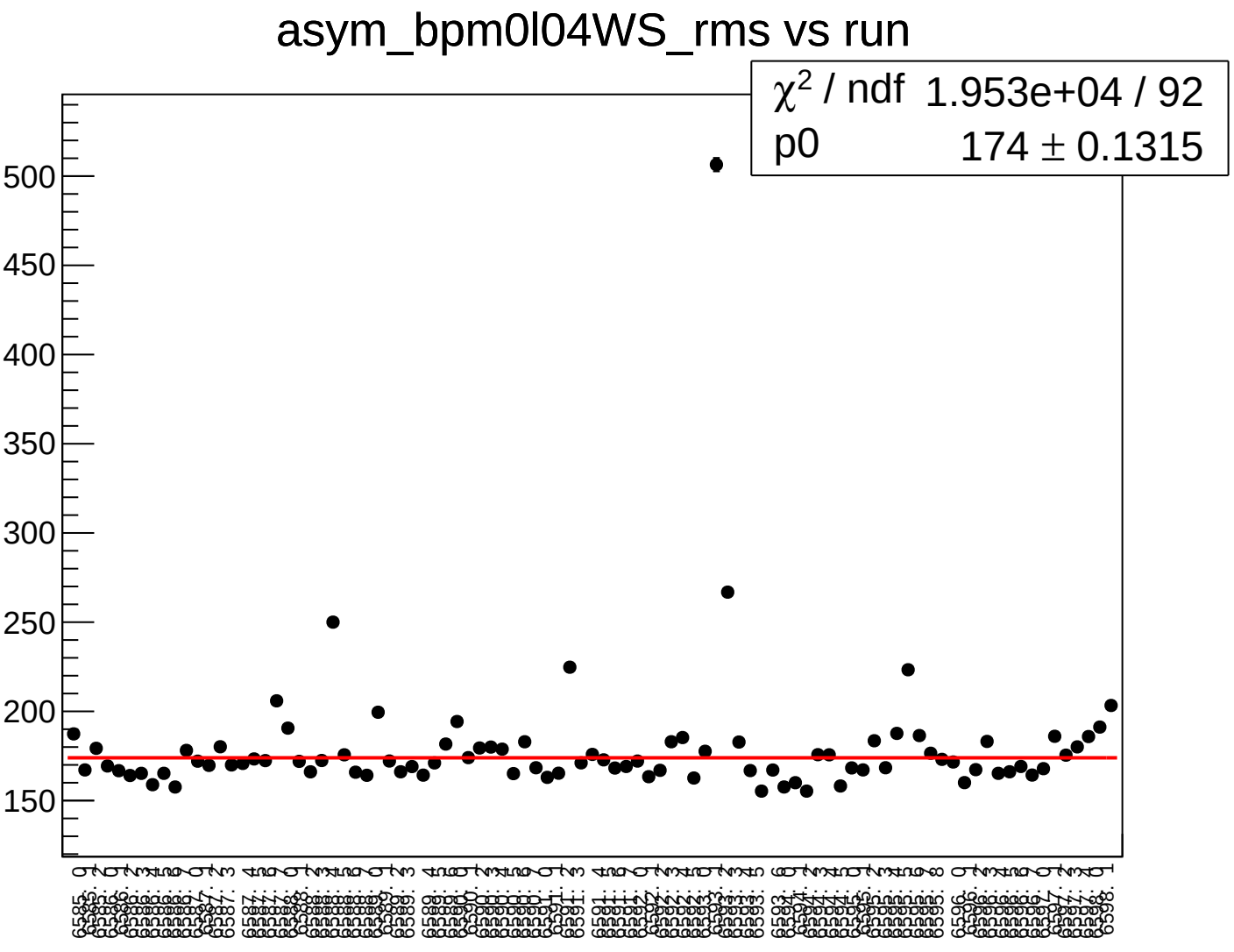

asym_bpm0l02WS_rms vs run
χ² / ndf 8639 / 92
p0 268.2 ± 0.2021
550
500
450
400
350
300
250

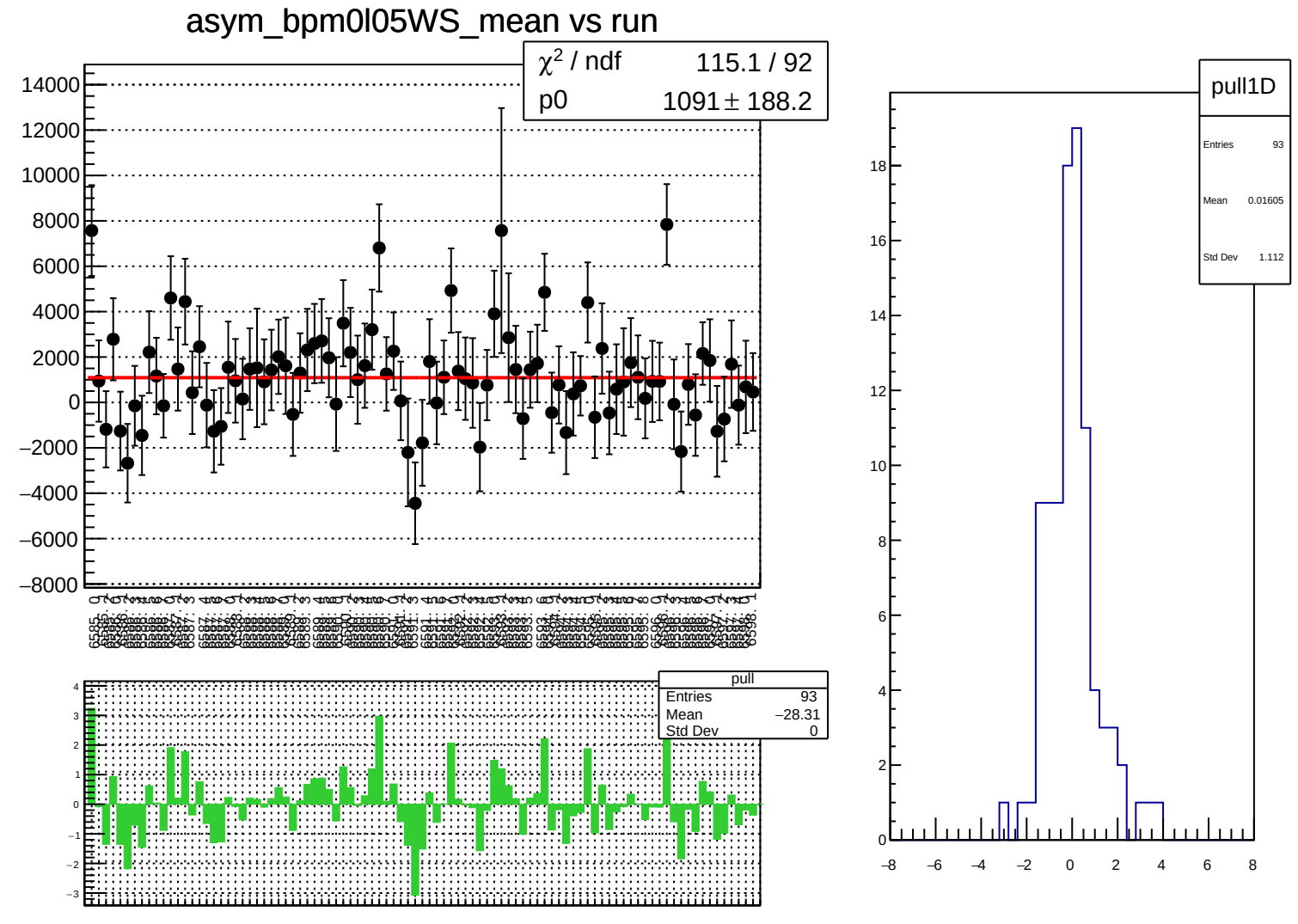

asym_bpm0l03WS_mean vs run
χ² / ndf 99.77 / 92
p0 1082 ± 650
pull
Entries 93
Mean −328.6
Std Dev 0

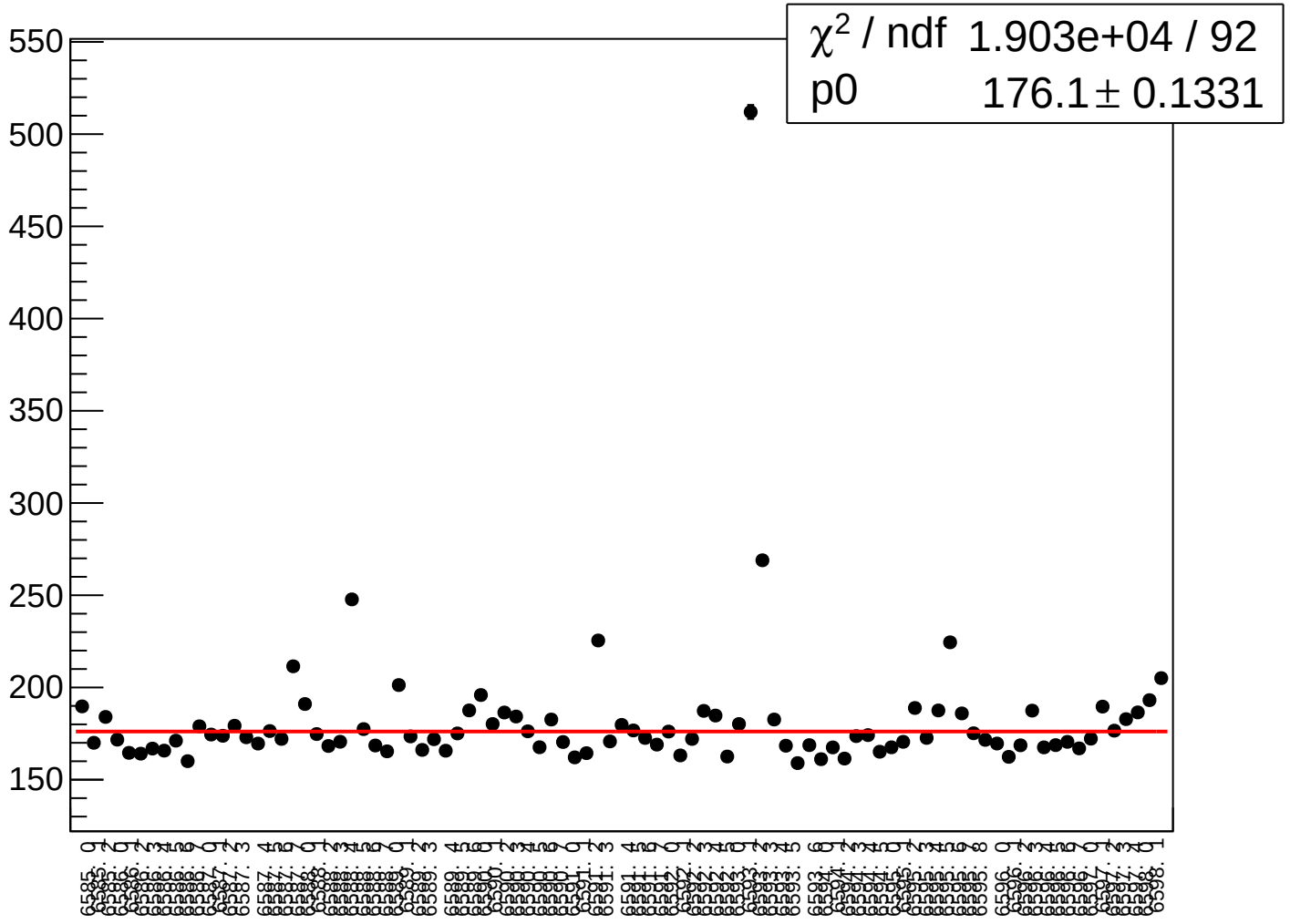

pull1D
Entries 93
Mean 0.00396
Std Dev 1.036

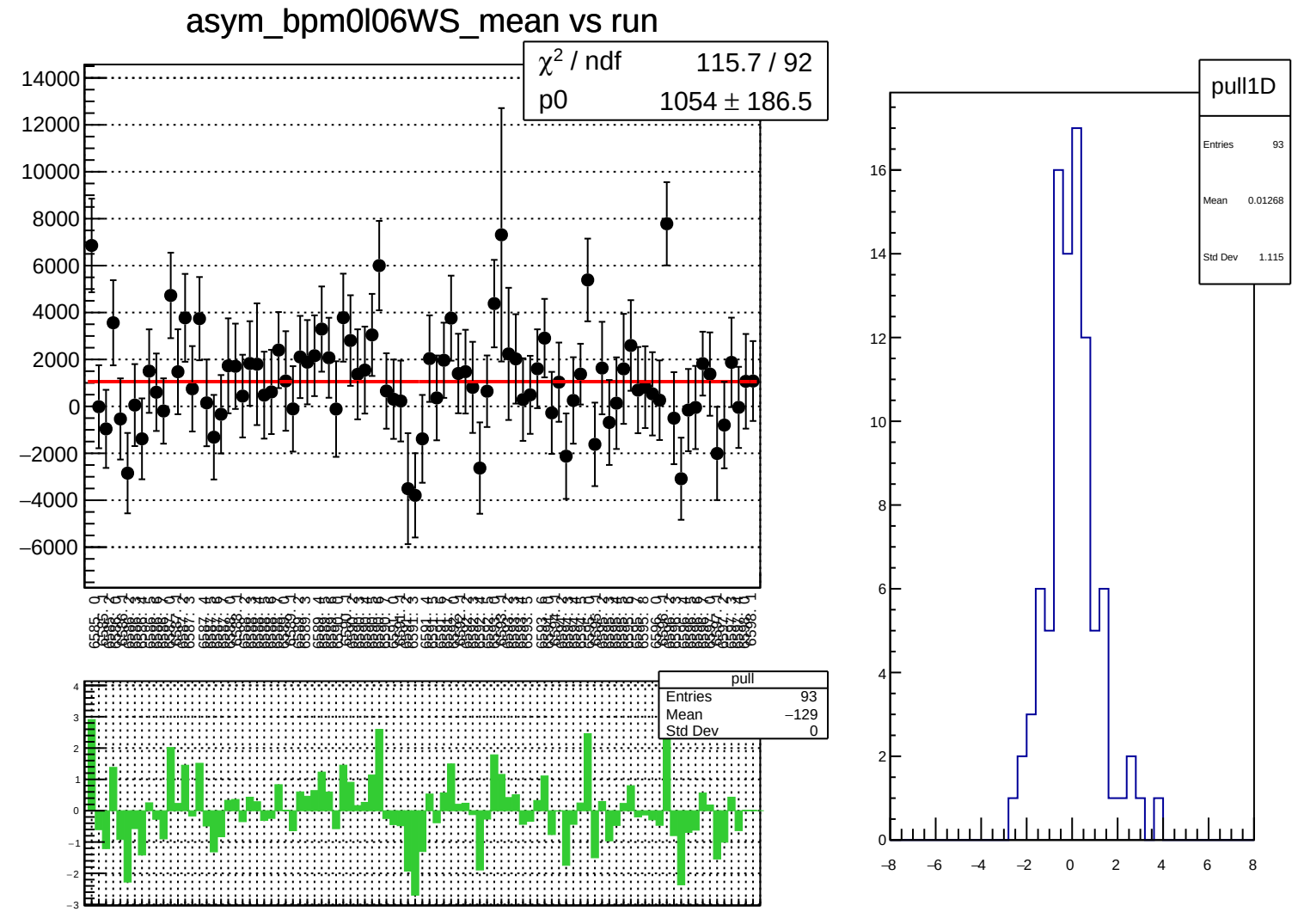

asym_bpm0l03WS_rms vs run
χ² / ndf 9.366e+05 / 92
p0 419.7 ± 0.4596
3000
2500
2000
1500
1000
500

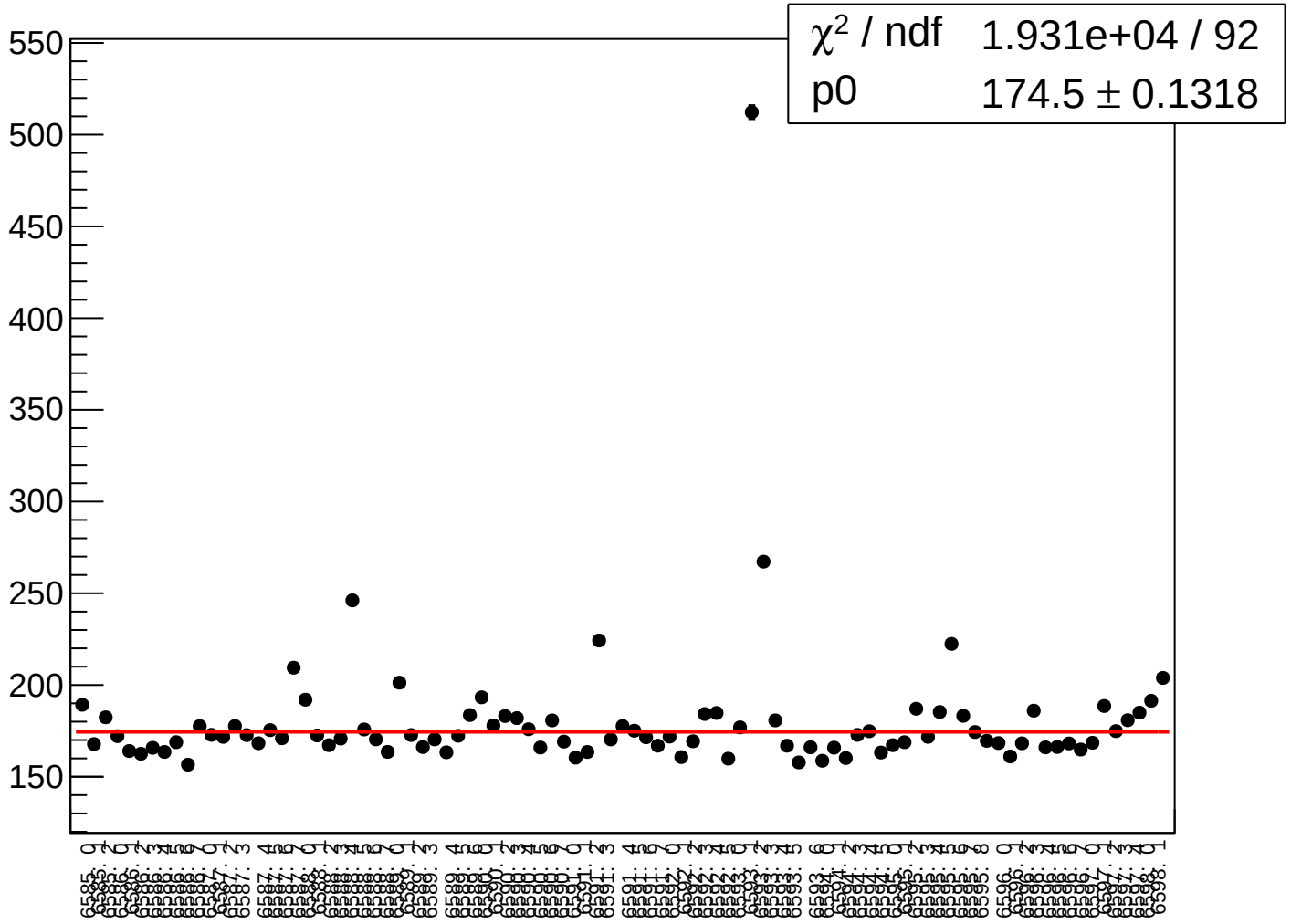

asym_bpm0l04WS_mean vs run
χ² / ndf 126 / 92
p0 1055 ± 185.9
15000
10000
5000
0
−5000
pull
Entries 93
Mean −137.3
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01627
Std Dev 1.164
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

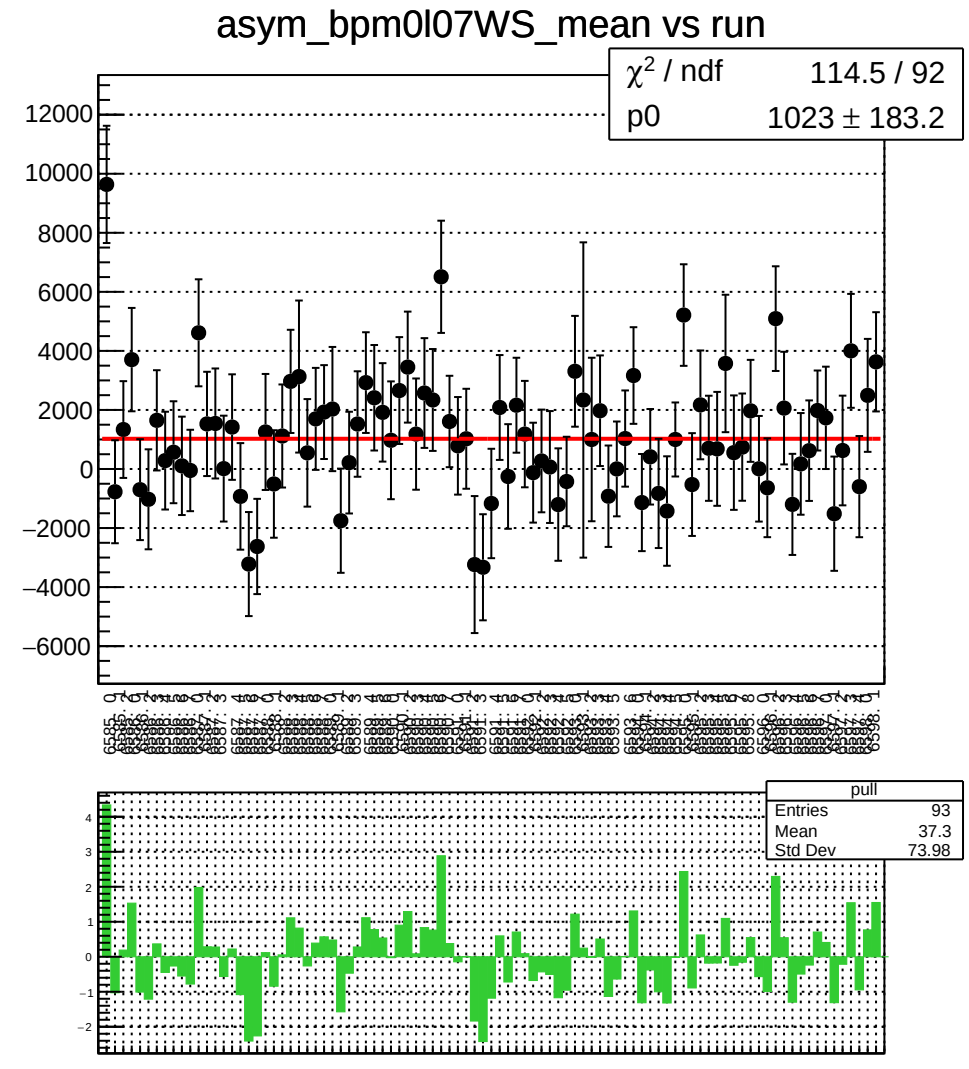

asym_bpm0l04WS_rms vs run
χ^2 / ndf 1.953e+04 / 92
p0 174 ± 0.1315
500
450
400
350
300
250
200
150

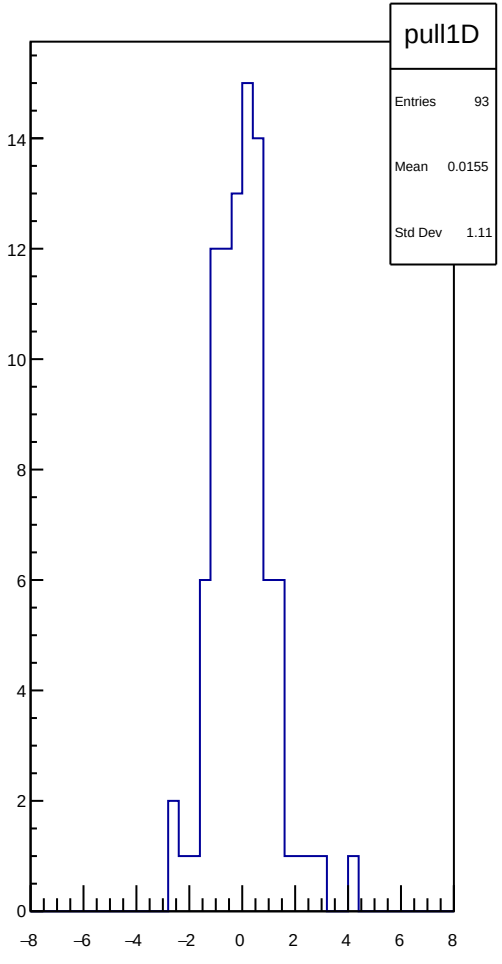

asym_bpm0l05WS_mean vs run
χ² / ndf 115.1 / 92
p0 1091 ± 188.2
pull
Entries 93
Mean −28.31
Std Dev 0
pull1D
Entries 93
Mean 0.01605
Std Dev 1.112

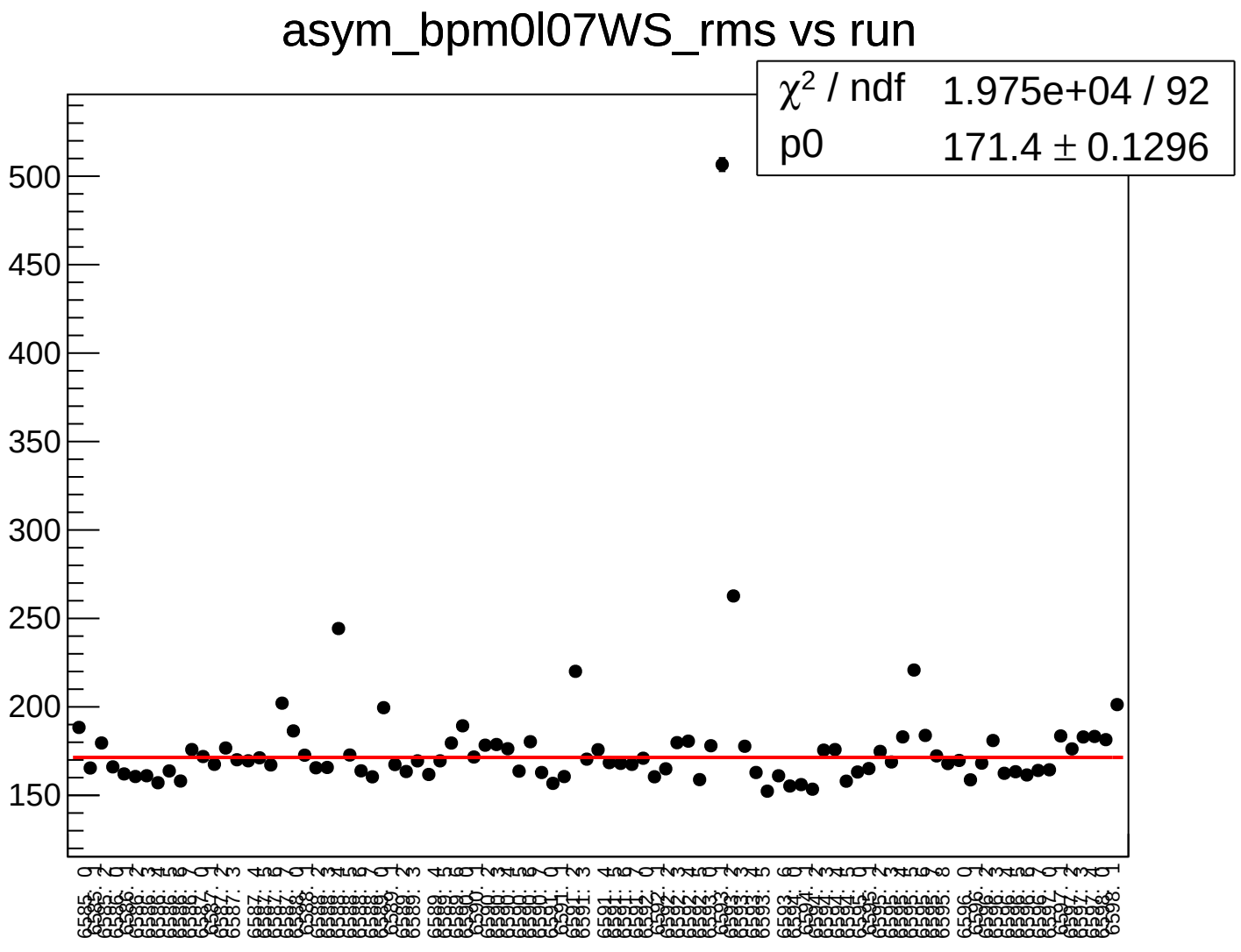

asym_bpm0l05WS_rms vs run
χ^2 / ndf 1.903e+04 / 92
p0 176.1 ± 0.1331
550
500
450
400
350
300
250
200
150

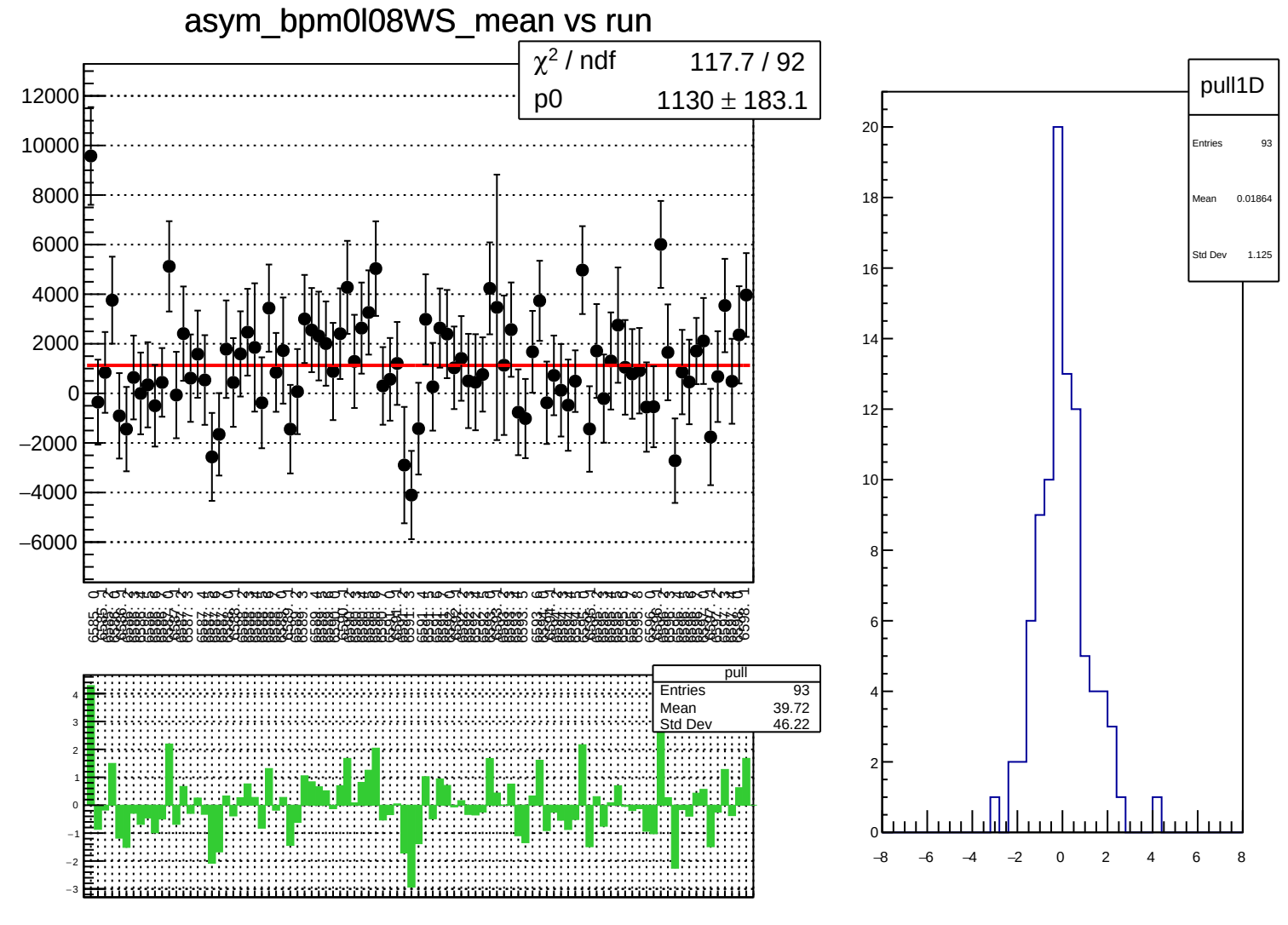

asym_bpm0l06WS_mean vs run
χ² / ndf 115.7 / 92
p0 1054 ± 186.5
pull
Entries 93
Mean −129
Std Dev 0
pull1D
Entries 93
Mean 0.01268
Std Dev 1.115

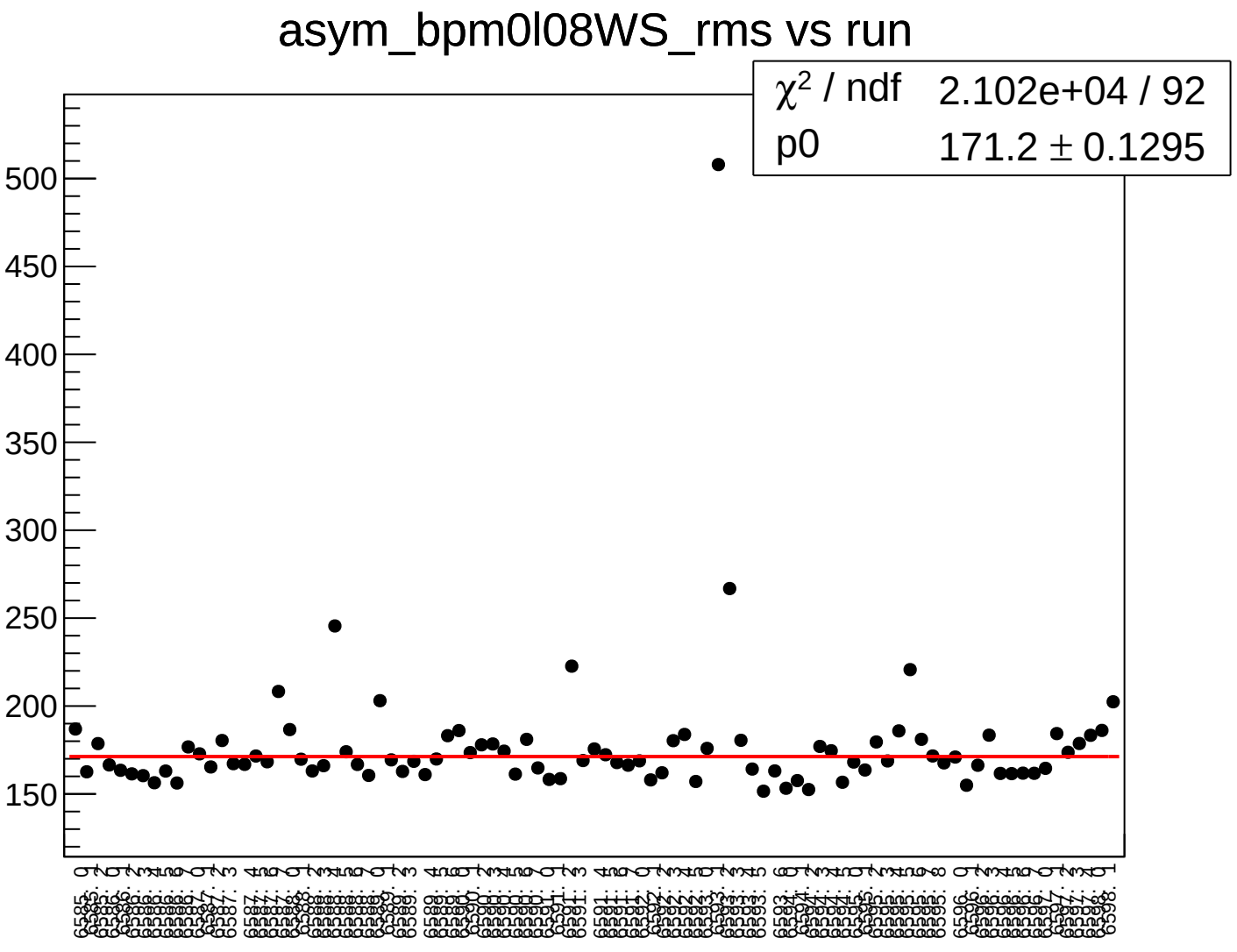

asym_bpm0l06WS_rms vs run
χ^2 / ndf 1.931e+04 / 92
p0 174.5 ± 0.1318
550
500
450
400
350
300
250
200
150

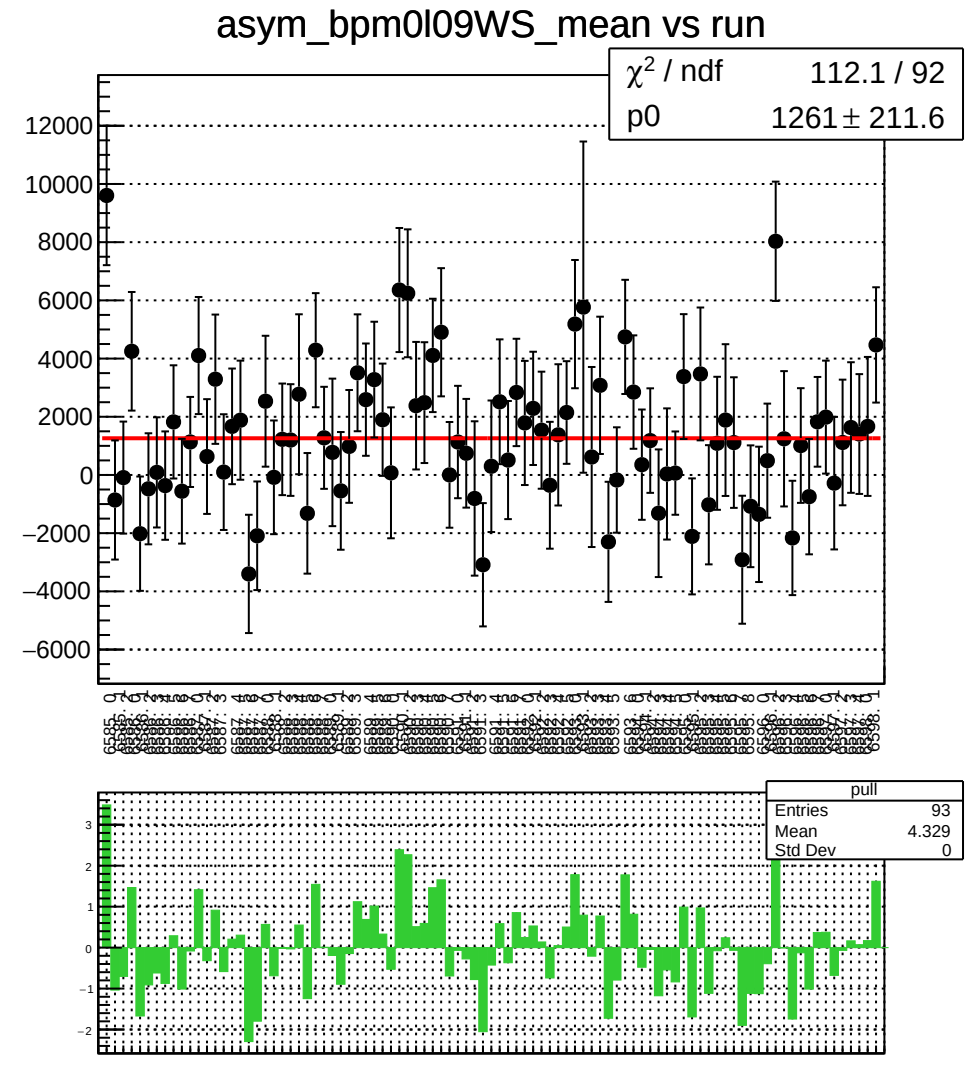

asym_bpm0l07WS_mean vs run
χ² / ndf 114.5 / 92
p0 1023 ± 183.2
pull
Entries 93
Mean 37.3
Std Dev 73.98

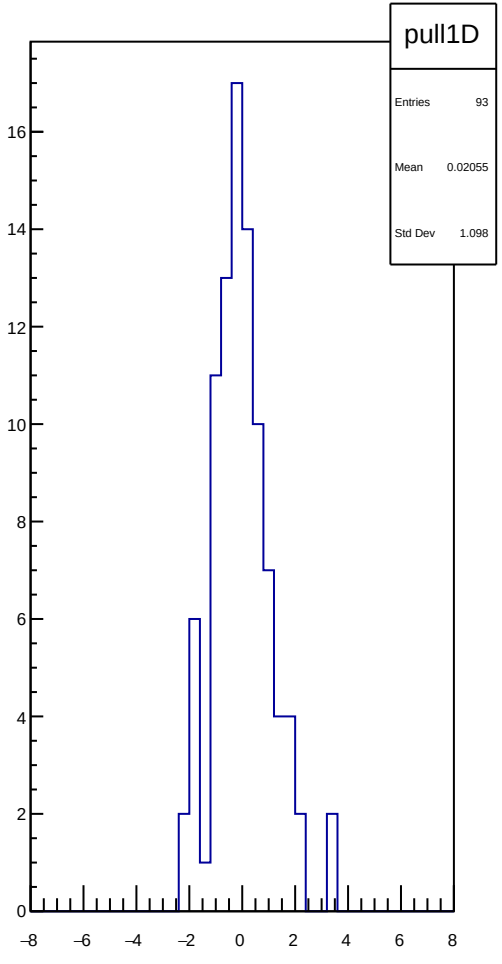

pull1D
Entries 93
Mean 0.0155
Std Dev 1.11

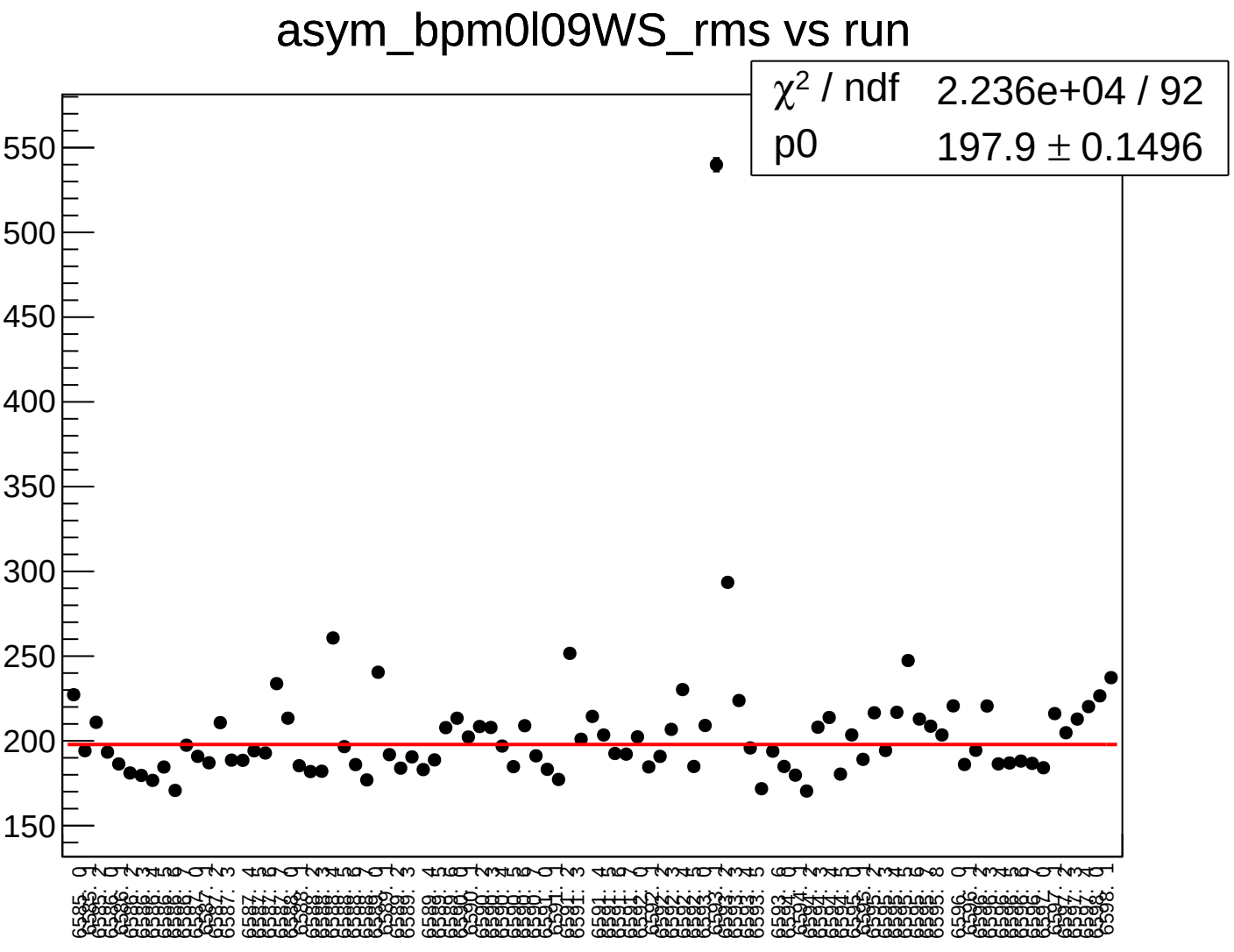

asym_bpm0l07WS_rms vs run
χ² / ndf 1.975e+04 / 92
p0 171.4 ± 0.1296
500
450
400
350
300
250
200
150

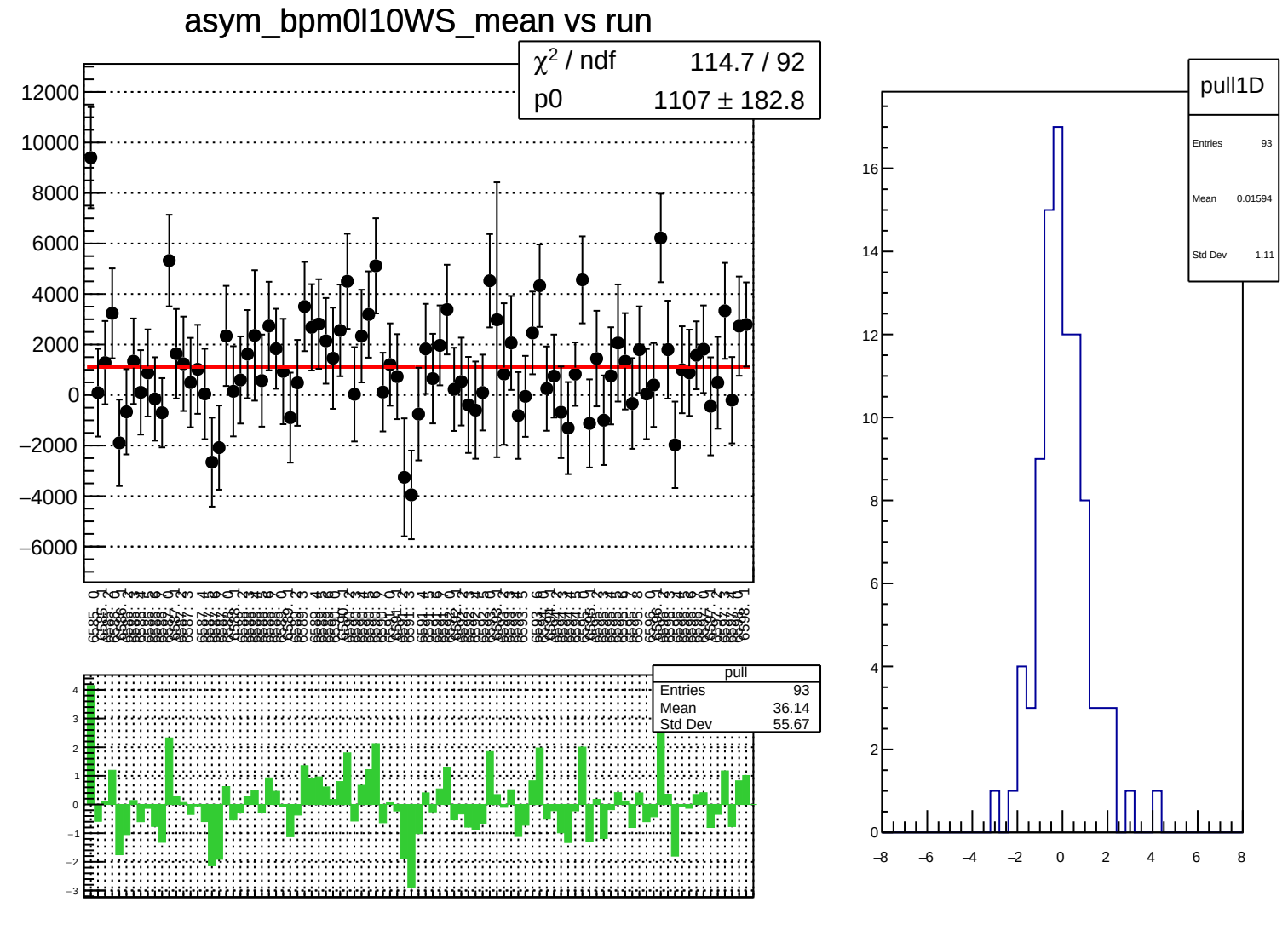

asym_bpm0l08WS_mean vs run
χ² / ndf 117.7 / 92
p0 1130 ± 183.1
pull
Entries 93
Mean 39.72
Std Dev 46.22
pull1D
Entries 93
Mean 0.01864
Std Dev 1.125

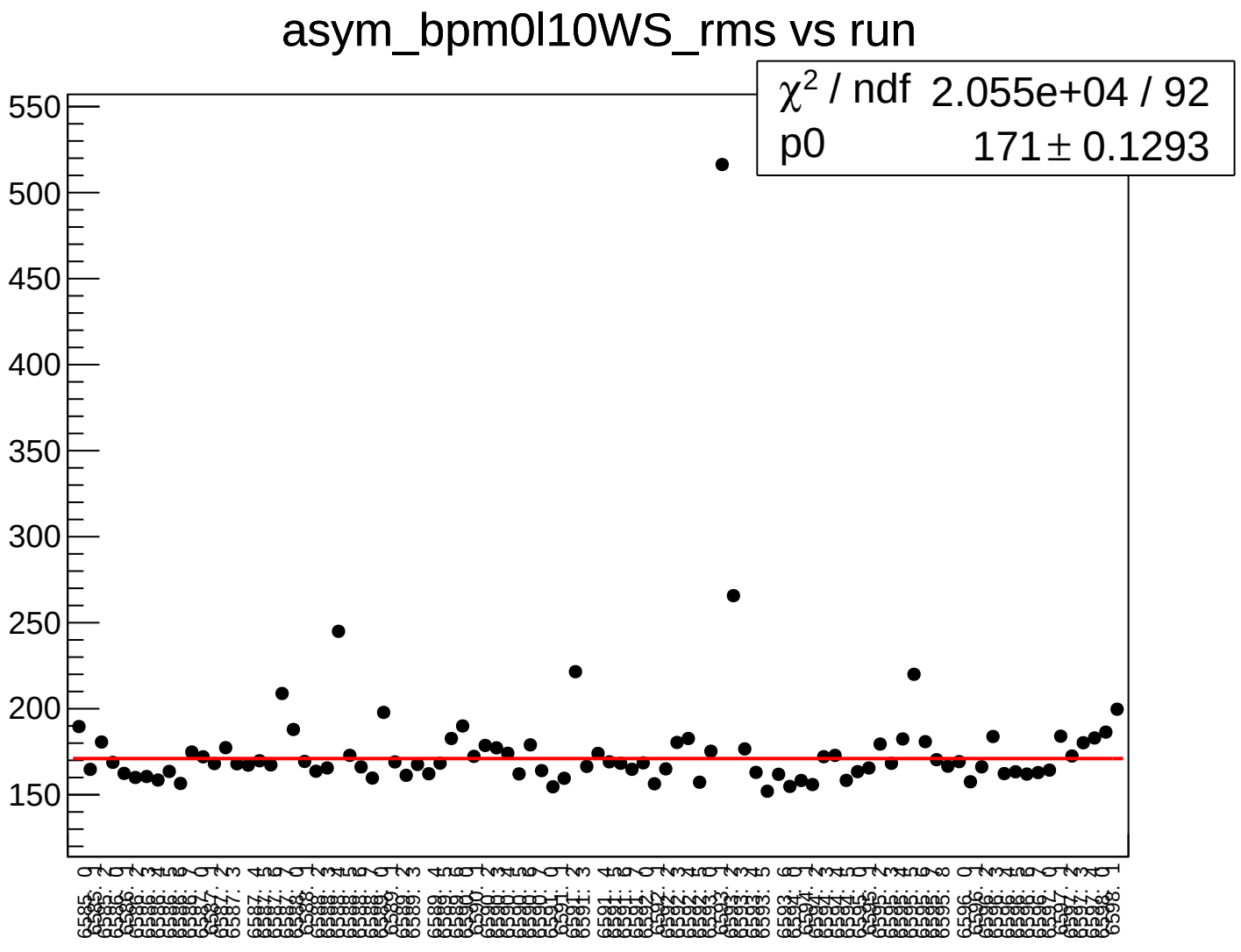

asym_bpm0l08WS_rms vs run
χ^2 / ndf 2.102e+04 / 92
p0 171.2 ± 0.1295
500
450
400
350
300
250
200
150

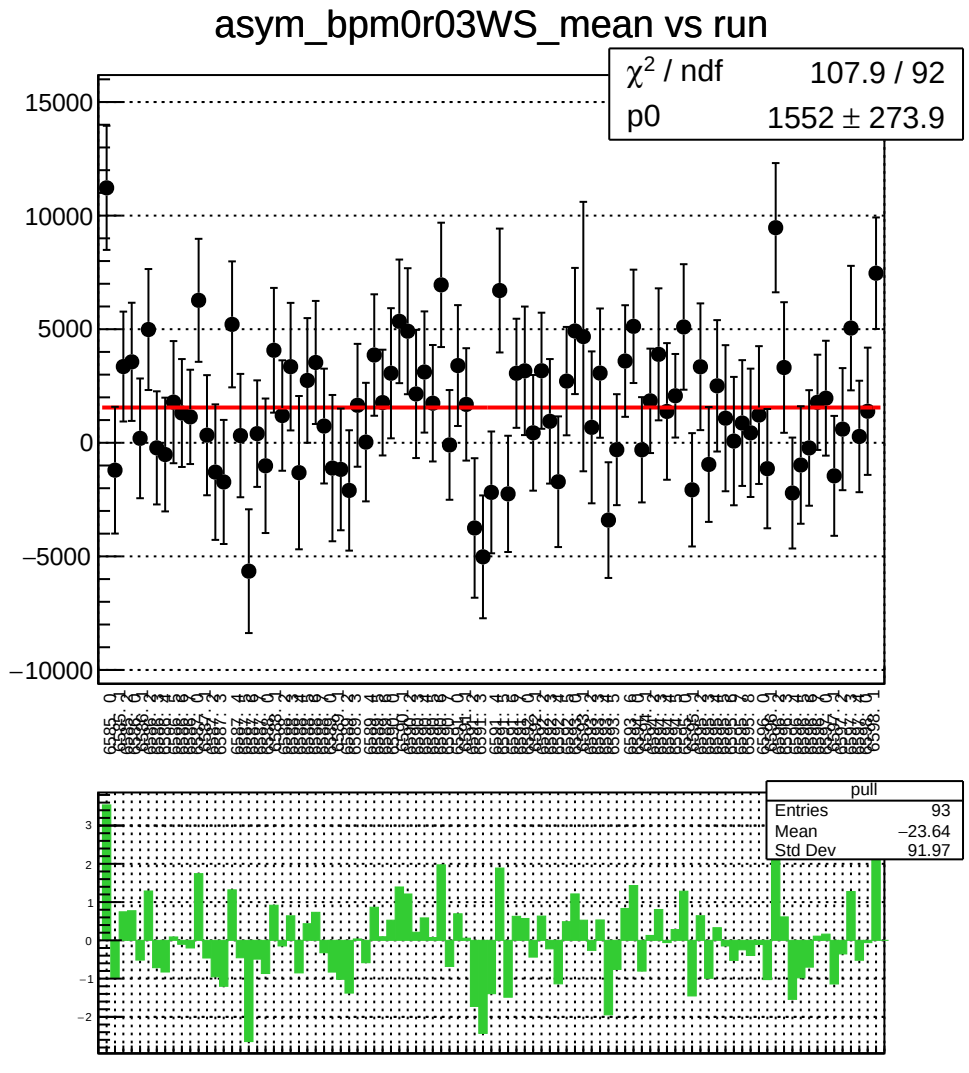

asym_bpm0l09WS_mean vs run
χ² / ndf 112.1 / 92
p0 1261 ± 211.6
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 4.329
Std Dev 0
3
2
1
0
−1
−2

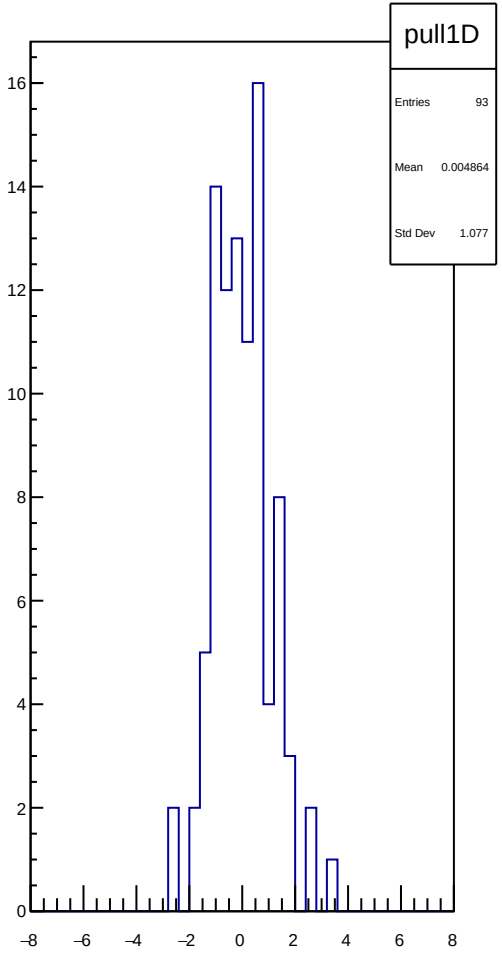

pull1D
Entries 93
Mean 0.02055
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

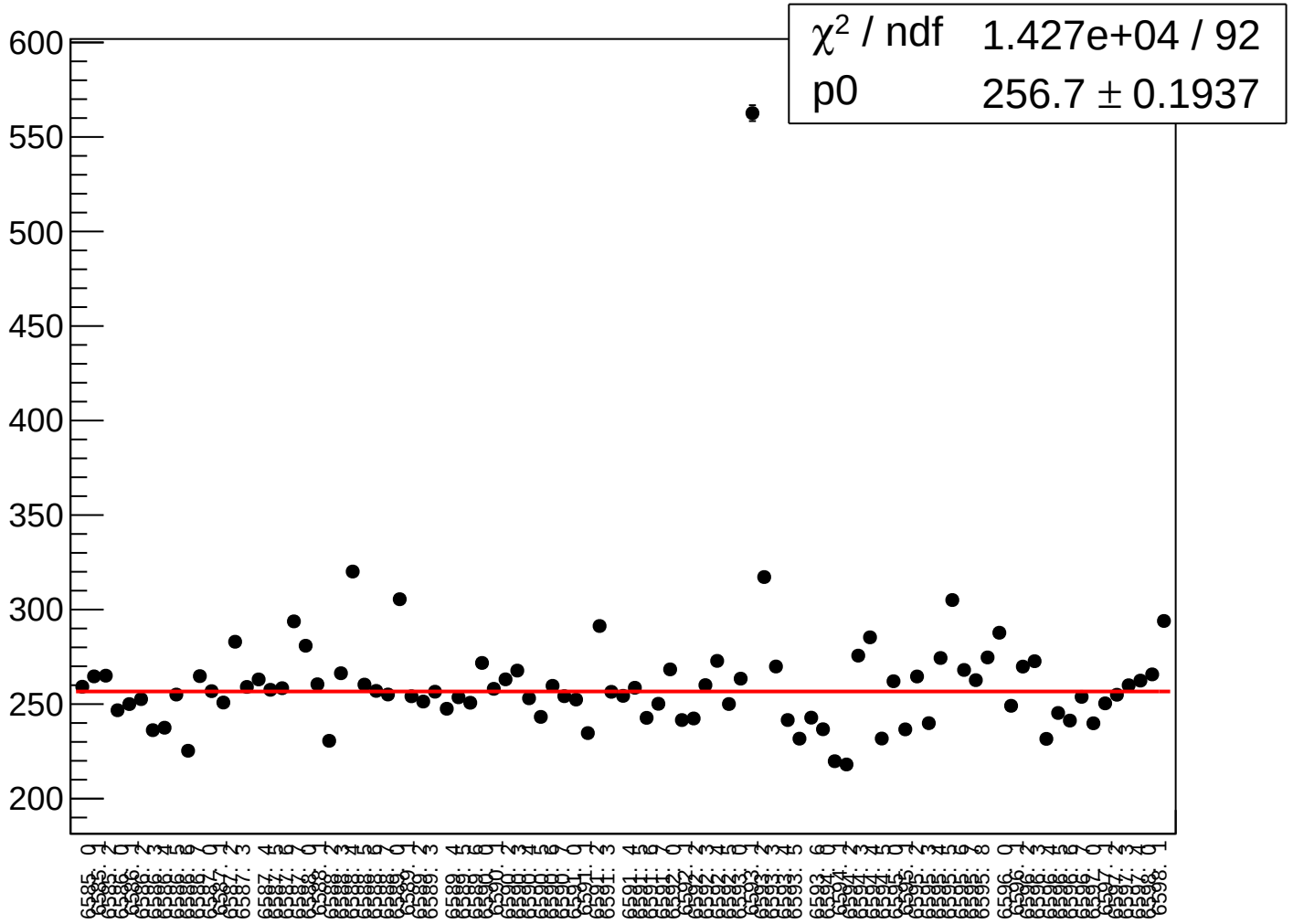

asym_bpm0l09WS_rms vs run
χ² / ndf 2.236e+04 / 92
p0 197.9 ± 0.1496
550
500
450
400
350
300
250
200
150

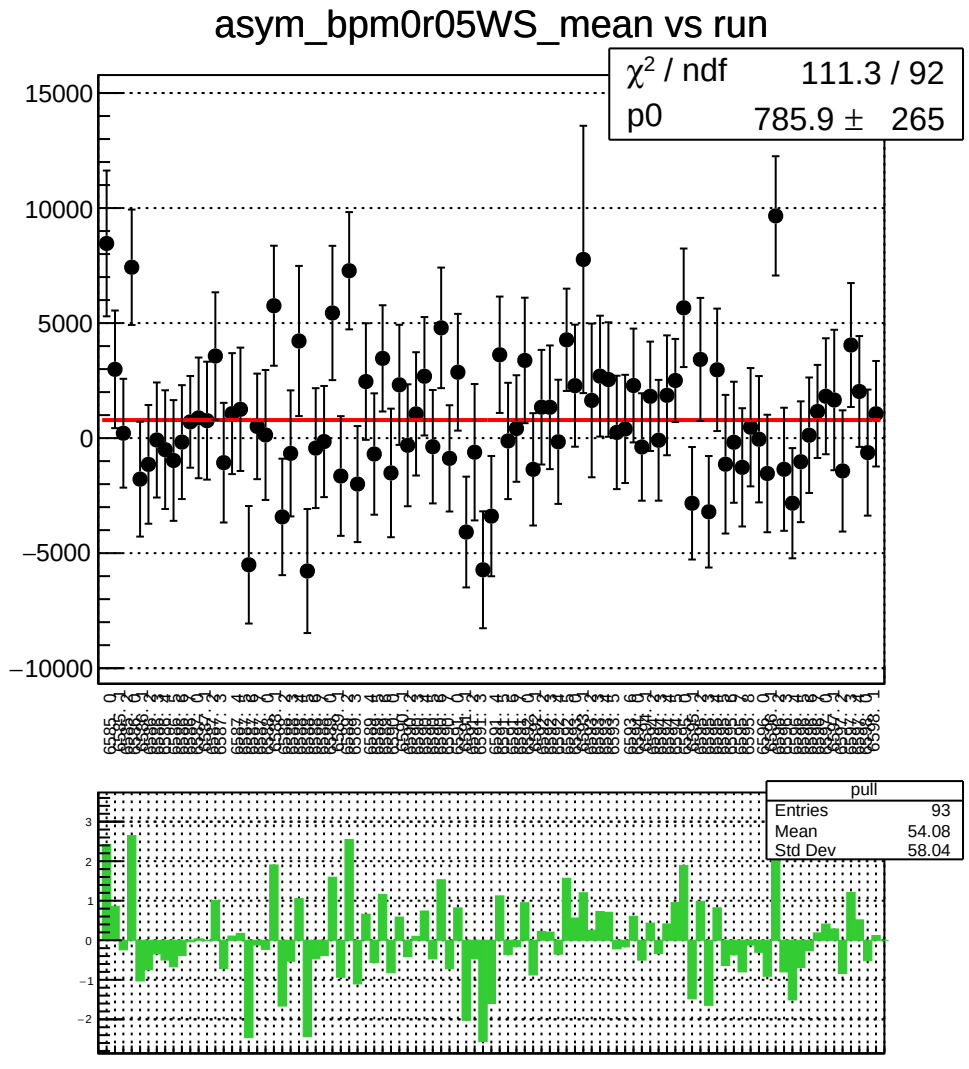

asym_bpm0l10WS_mean vs run
χ² / ndf 114.7 / 92
p0 1107 ± 182.8
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 36.14
Std Dev 55.67
4
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01594
Std Dev 1.11
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

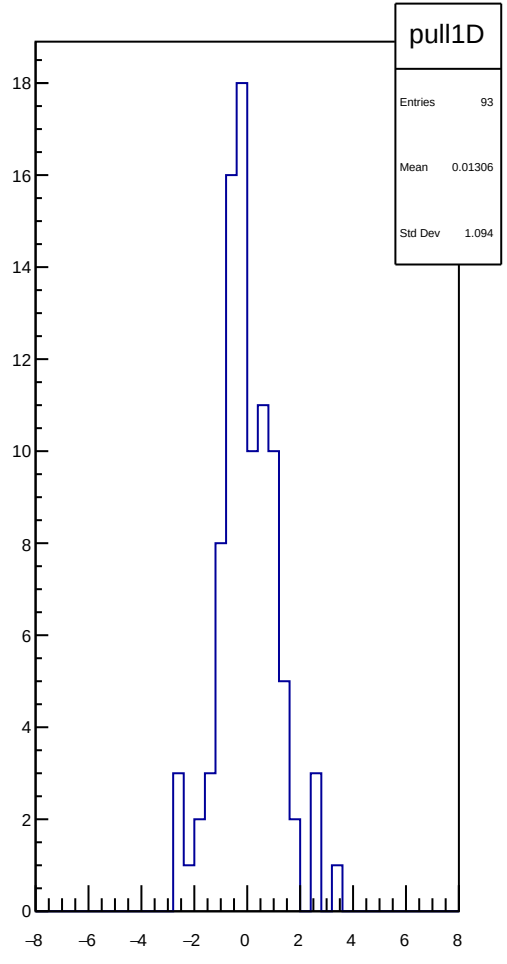

asym_bpm0l10WS_rms vs run
χ^2 / ndf 2.055e+04 / 92
p0 171 ± 0.1293
550
500
450
400
350
300
250
200
150


asym_bpm0r03WS_mean vs run
χ^2 / ndf 107.9 / 92
p0 1552 ± 273.9
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −23.64
Std Dev 91.97
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.004864
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r03WS_rms vs run
χ^2 / ndf 1.427e+04 / 92
p0 256.7 ± 0.1937
600
550
500
450
400
350
300
250
200


asym_bpm0r05WS_mean vs run
χ² / ndf 111.3 / 92
p0 785.9 ± 265
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 54.08
Std Dev 58.04
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.01306
Std Dev 1.094
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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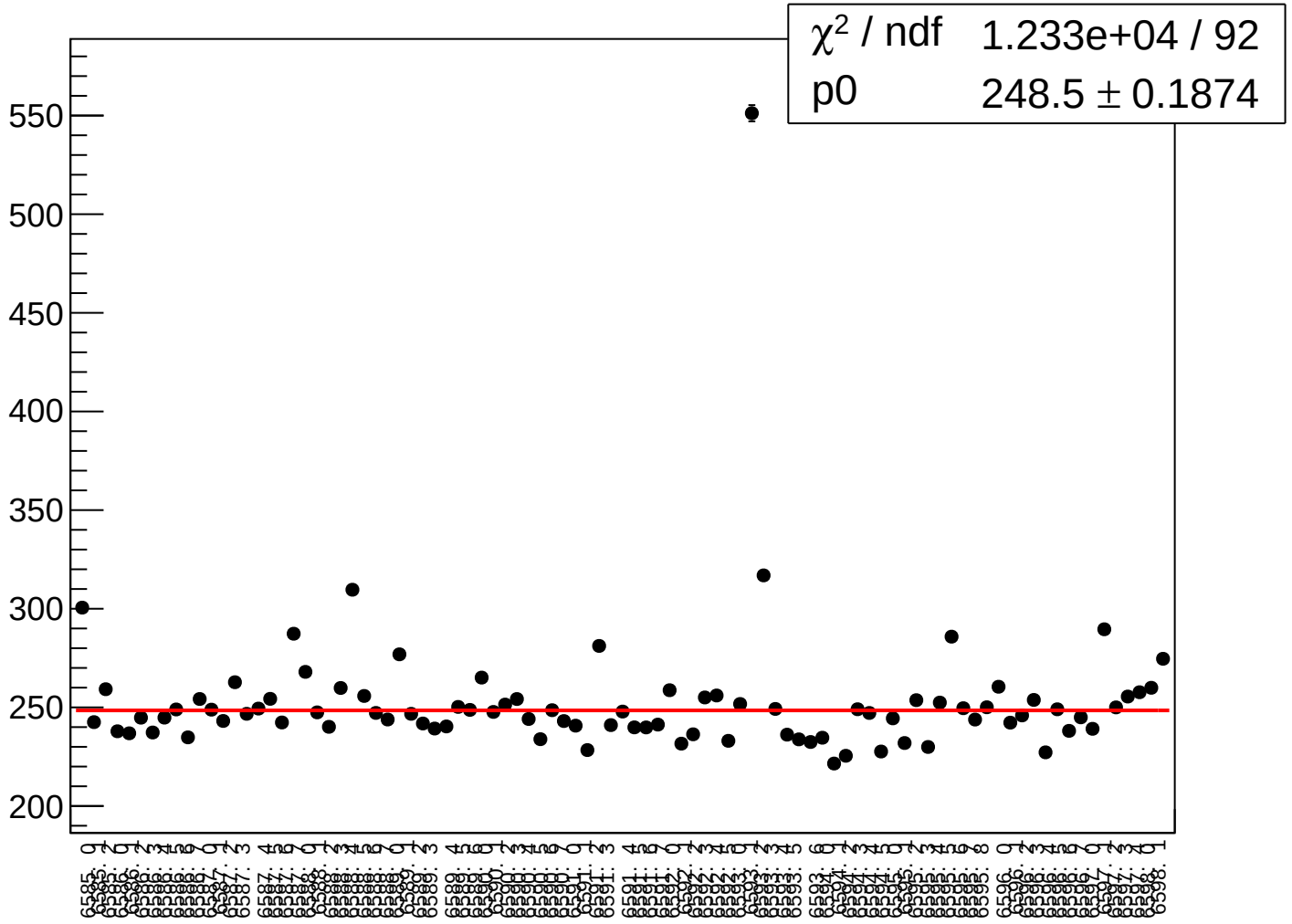
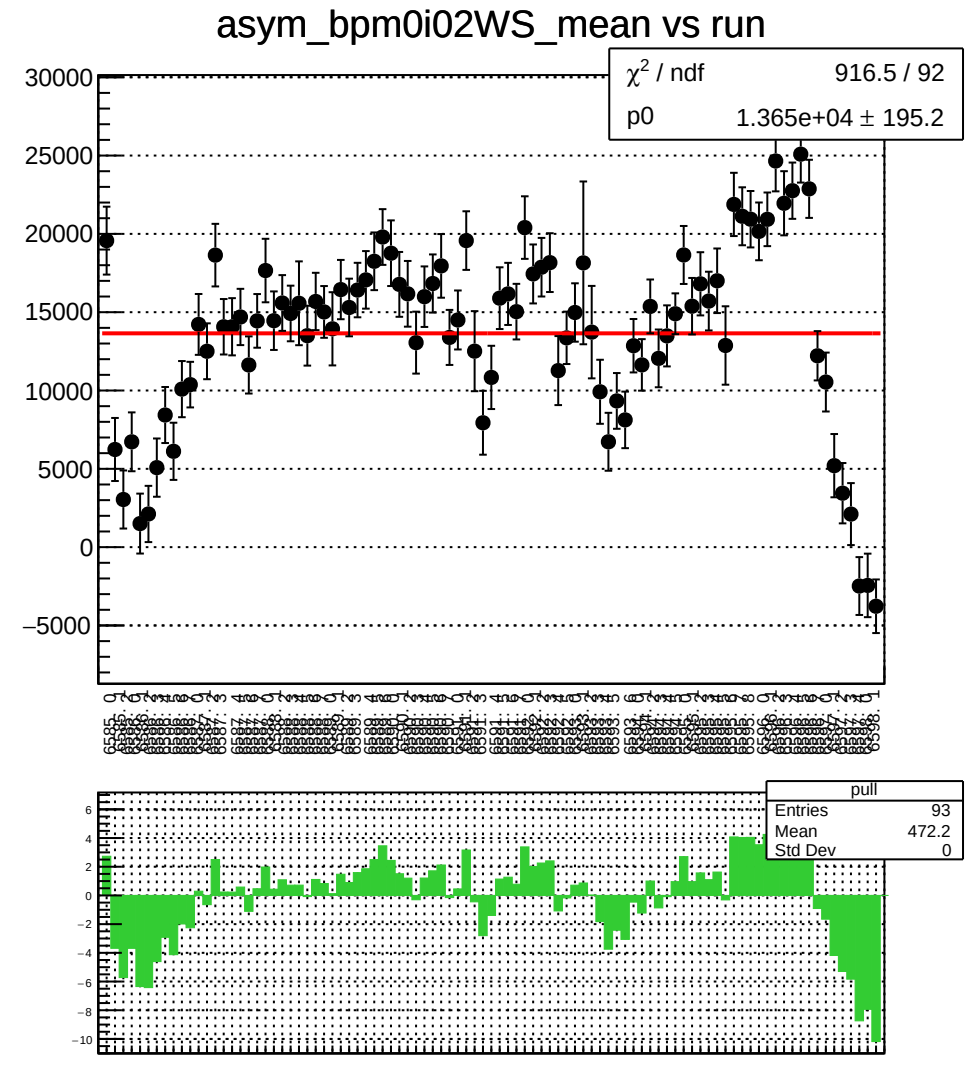
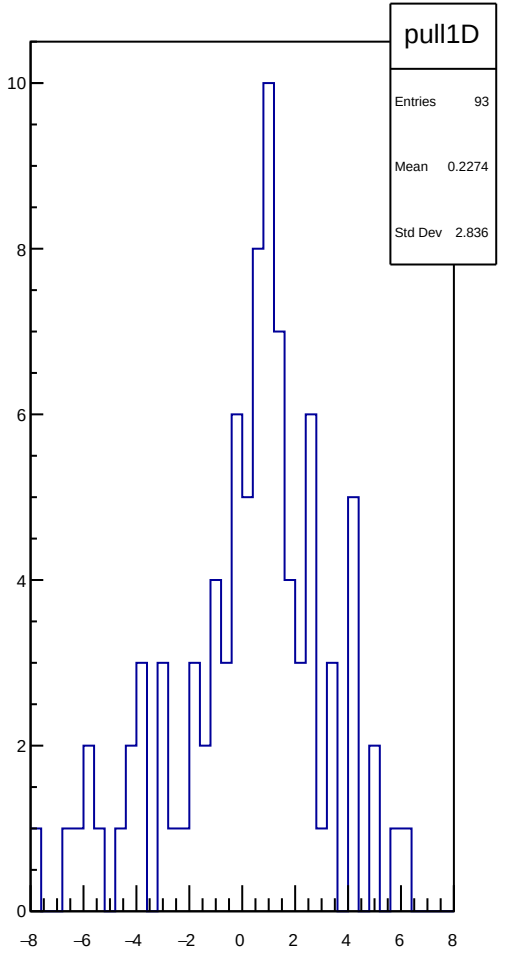
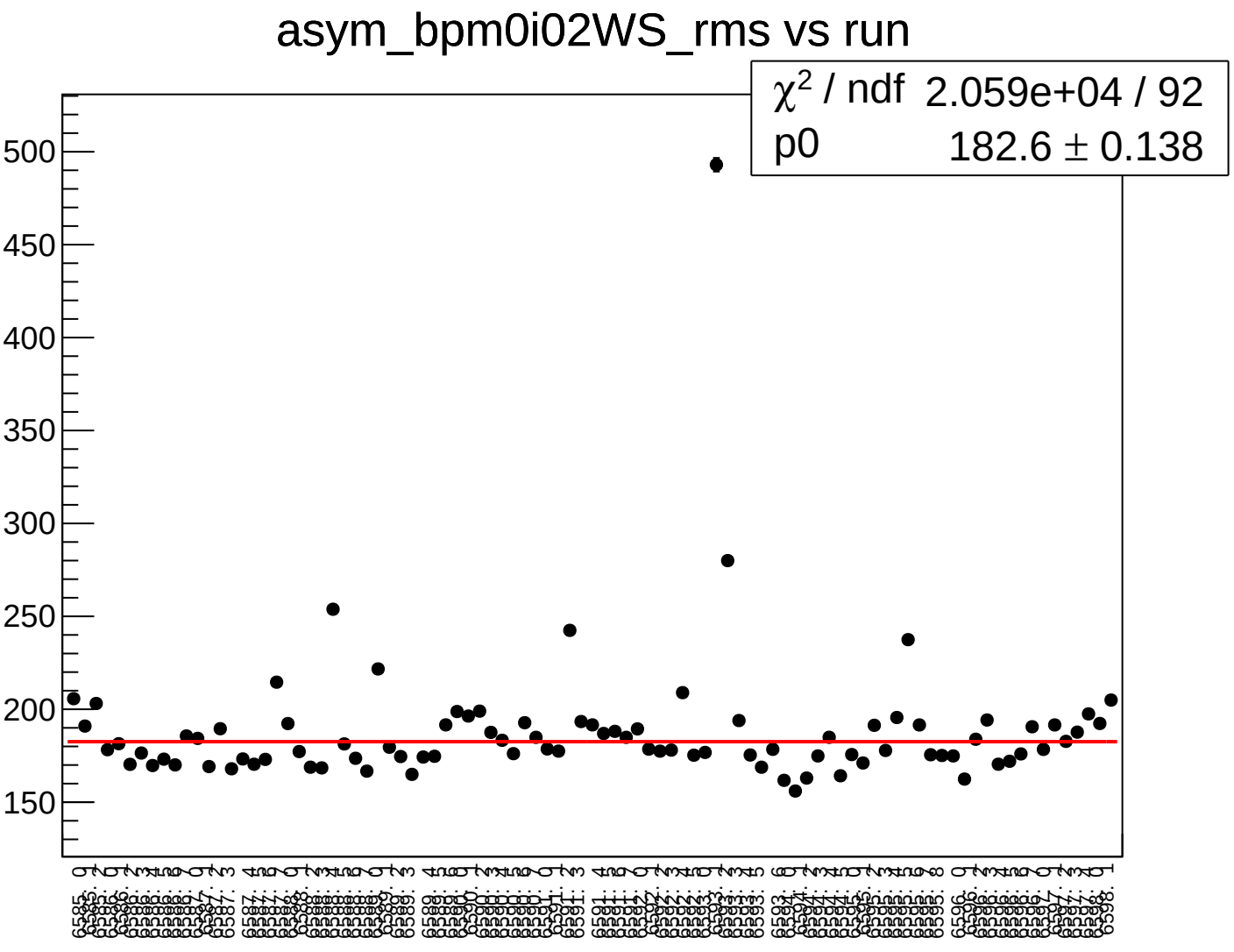
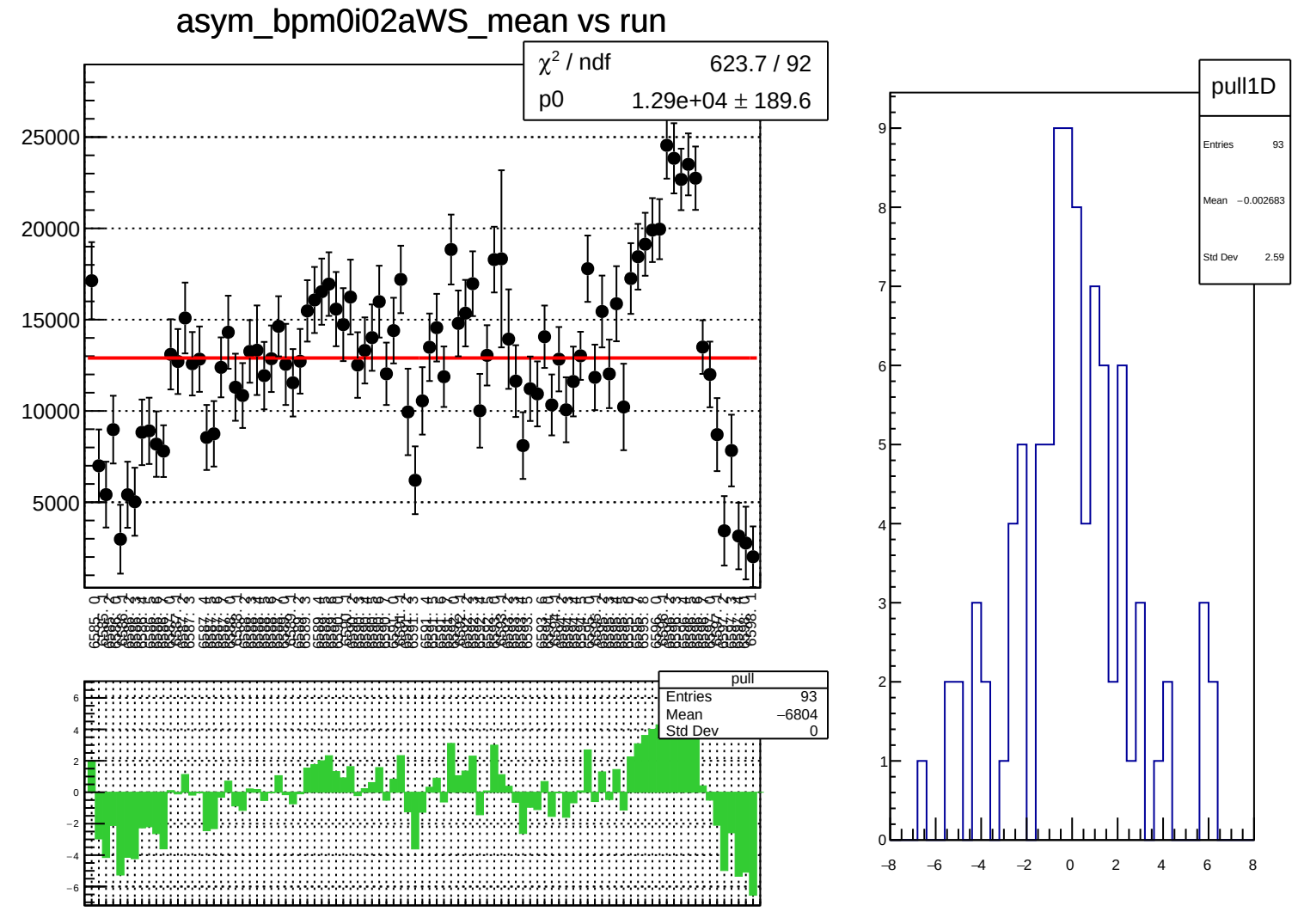
0
2
4
6
8

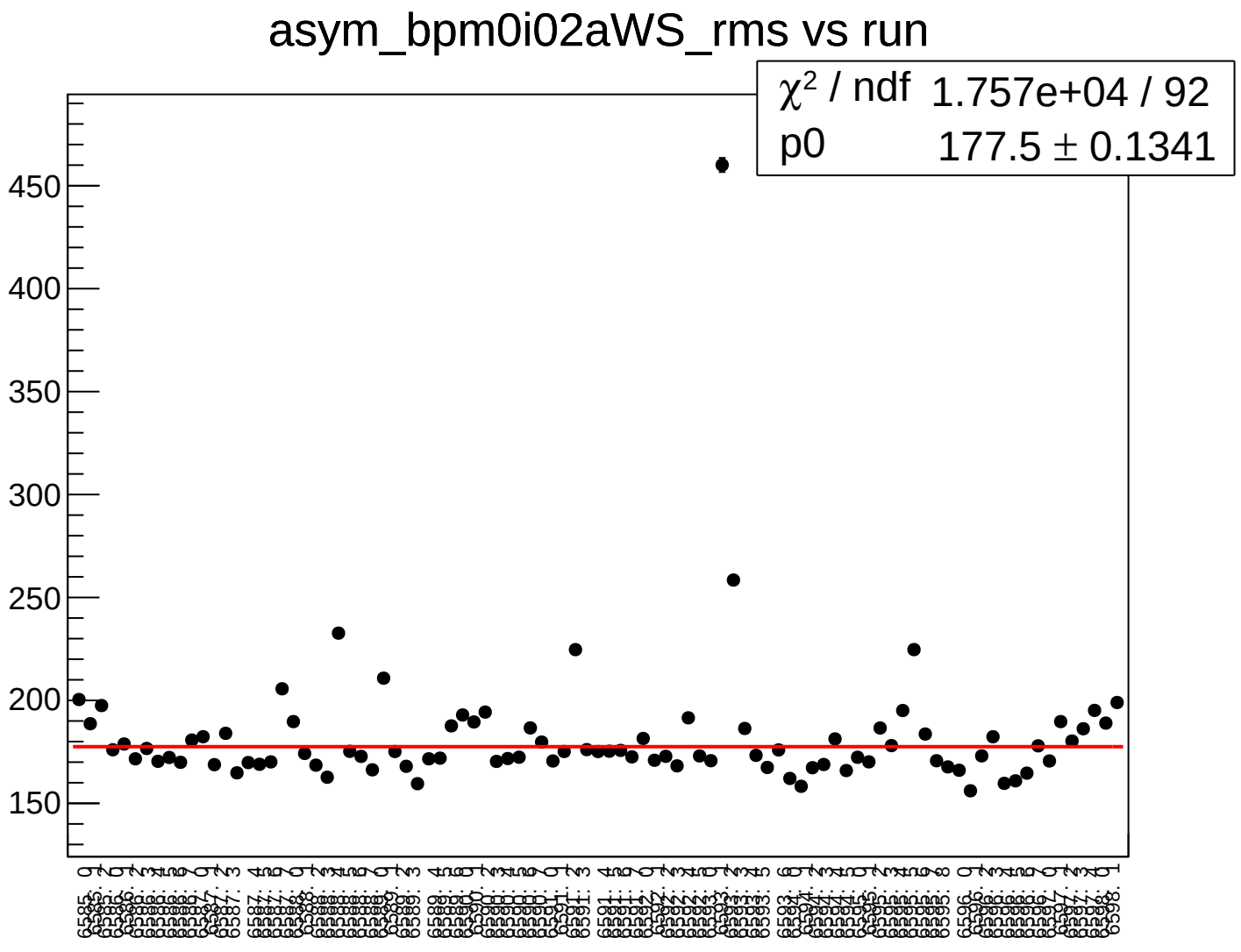

asym_bpm0r05WS_rms vs run
χ^2 / ndf 1.233e+04 / 92
p0 248.5 ± 0.1874
550
500
450
400
350
300
250
200

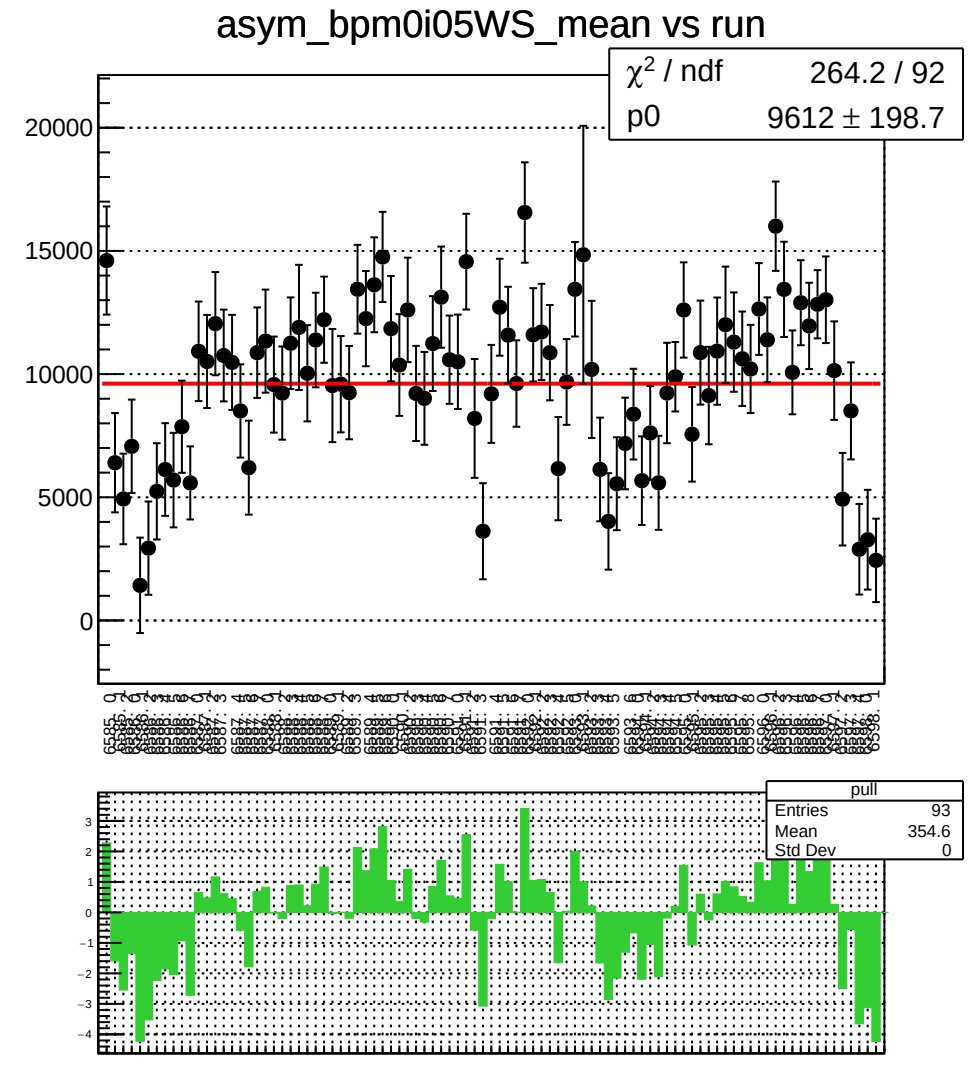

asym_bpm0i02WS_mean vs run
χ² / ndf 916.5 / 92
p0 1.365e+04 ± 195.2
pull
Entries 93
Mean 472.2
Std Dev 0

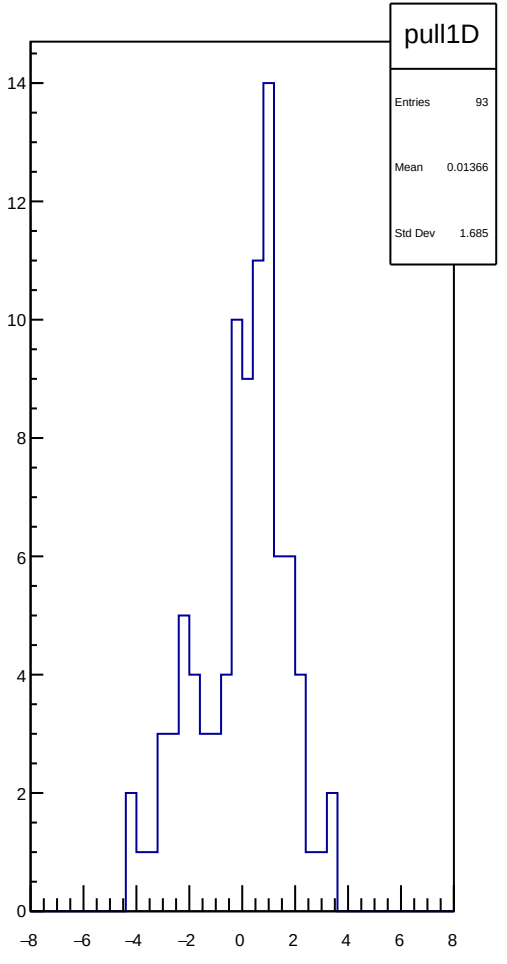

pull1D
Entries 93
Mean 0.2274
Std Dev 2.836

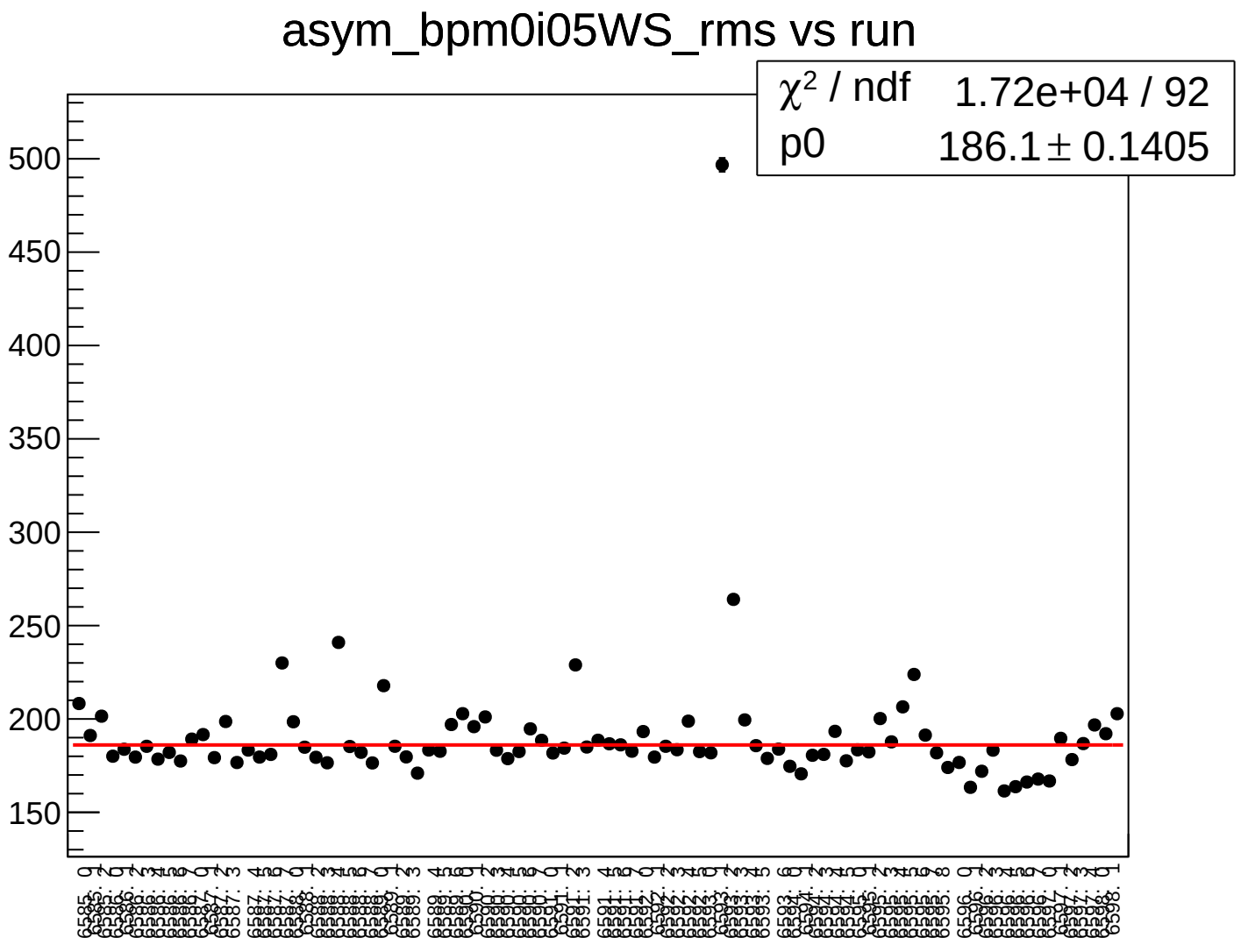

asym_bpm0i02WS_rms vs run
χ^2 / ndf 2.059e+04 / 92
p0 182.6 ± 0.138
500
450
400
350
300
250
200
150

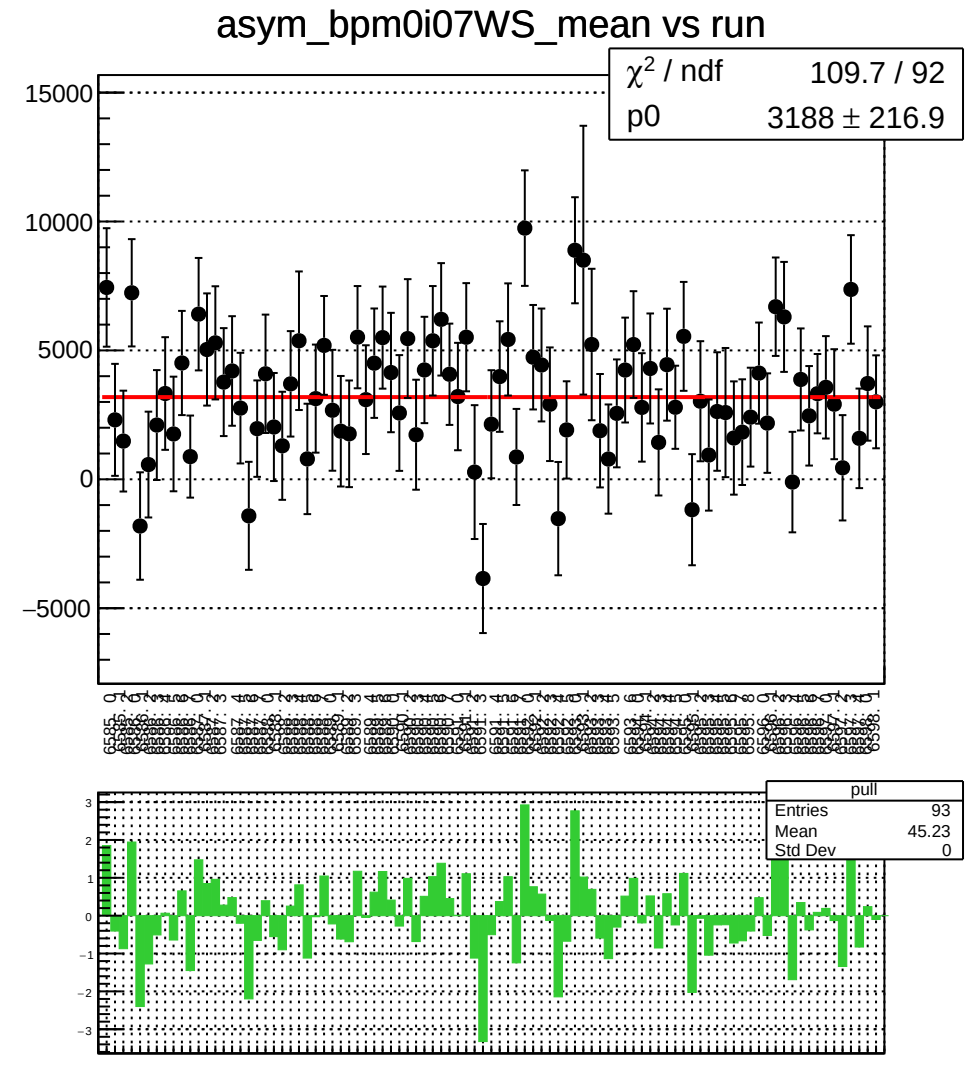

asym_bpm0i02aWS_mean vs run
χ² / ndf 623.7 / 92
p0 1.29e+04 ± 189.6
25000
20000
15000
10000
5000
pull
Entries 93
Mean −6804
Std Dev 0
6
4
2
0
−2
−4
−6
pull1D
Entries 93
Mean −0.002683
Std Dev 2.59
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

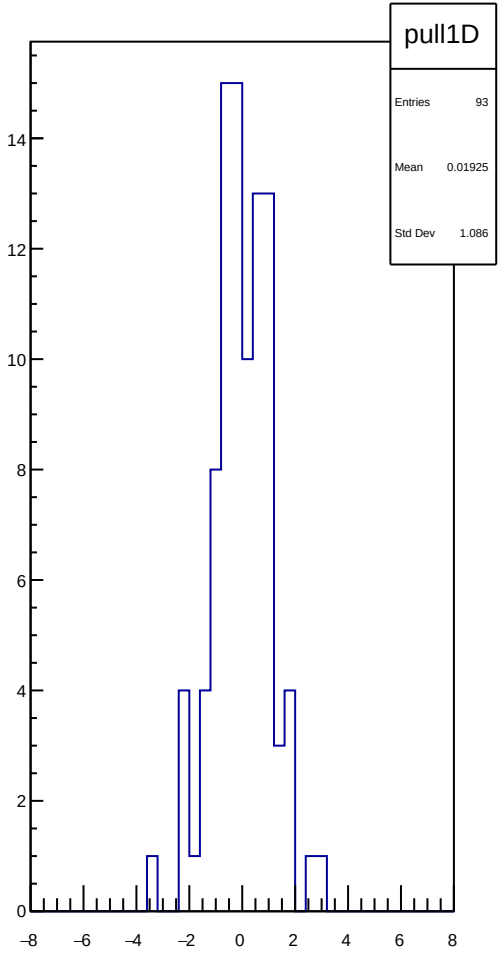

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.757e+04 / 92
p0 177.5 ± 0.1341
450
400
350
300
250
200
150

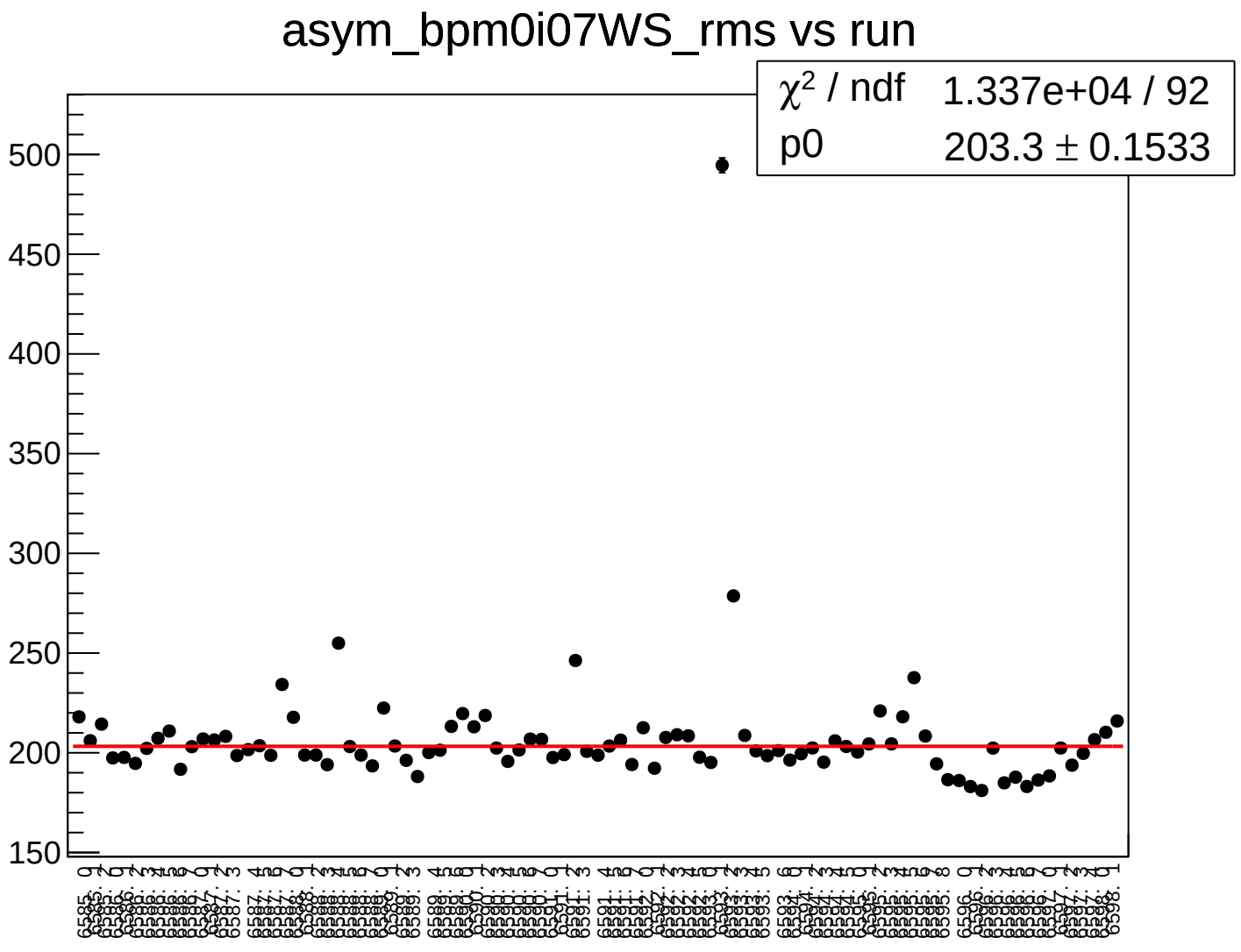

asym_bpm0i05WS_mean vs run
χ² / ndf 264.2 / 92
p0 9612 ± 198.7
20000
15000
10000
5000
0
pull
Entries 93
Mean 354.6
Std Dev 0
3
2
1
0
−1
−2
−3
−4

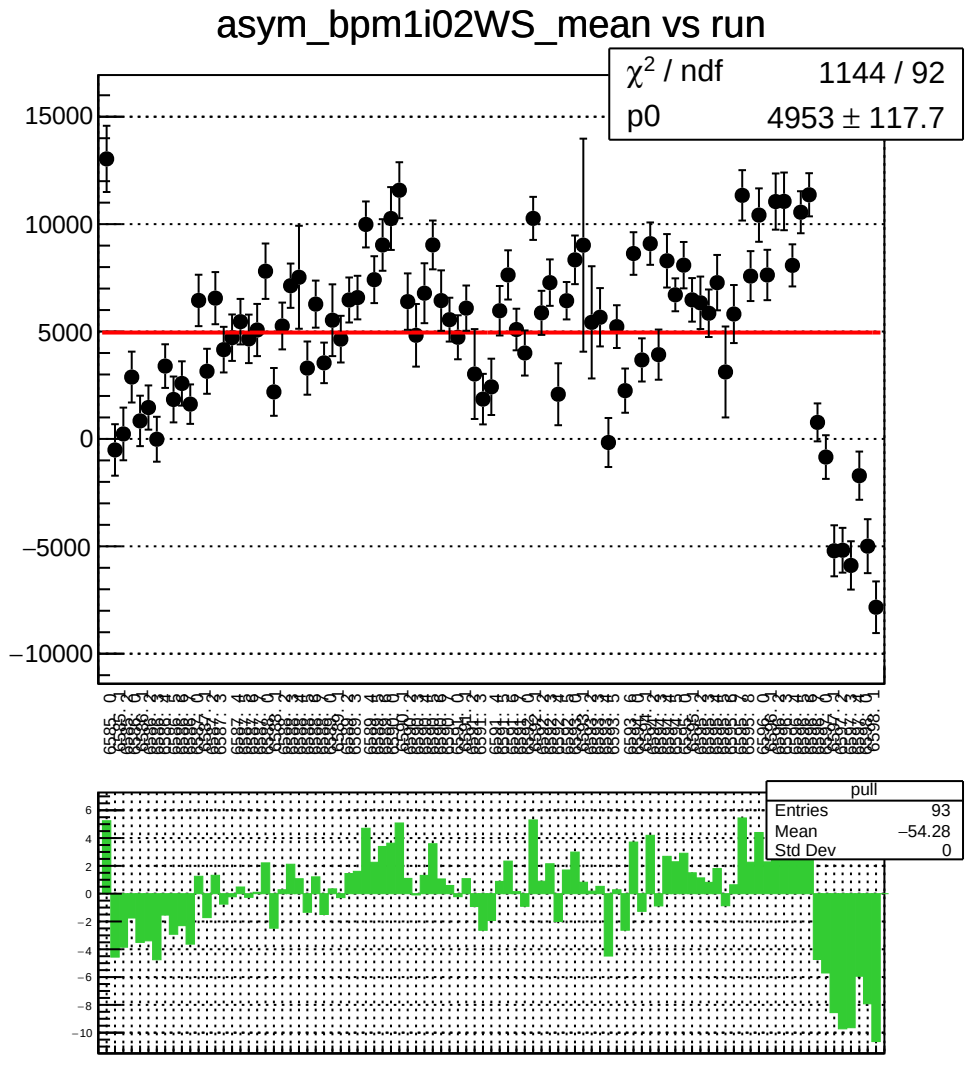

pull1D
Entries 93
Mean 0.01366
Std Dev 1.685
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

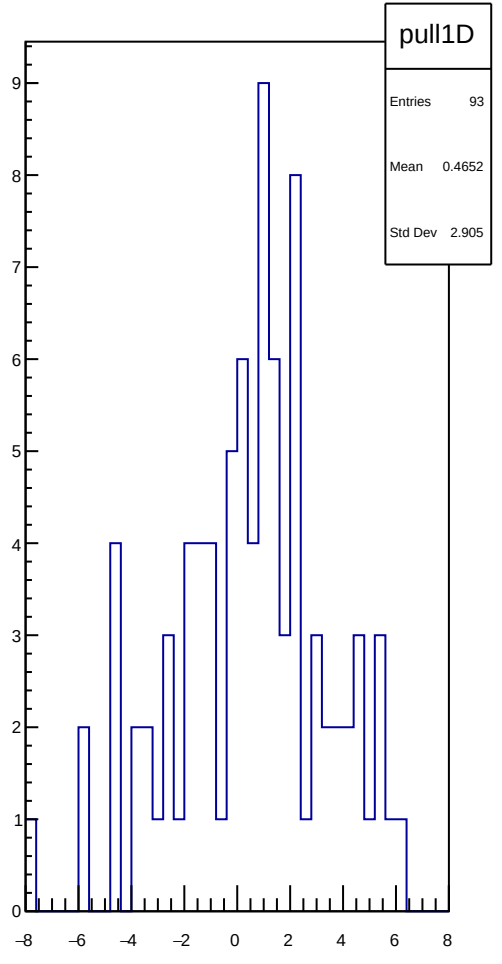

asym_bpm0i05WS_rms vs run
χ² / ndf 1.72e+04 / 92
p0 186.1 ± 0.1405
500
450
400
350
300
250
200
150

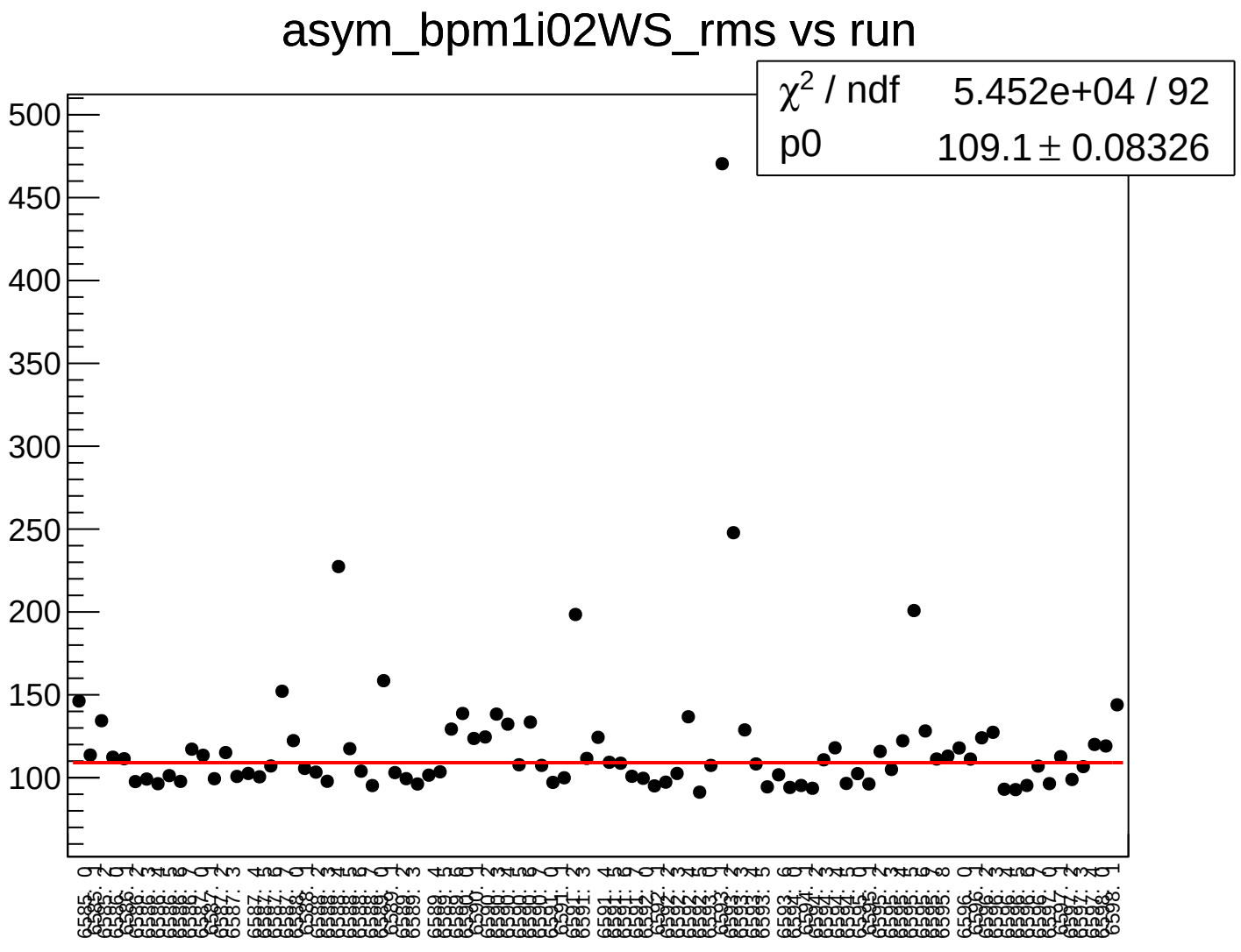

asym_bpm0i07WS_mean vs run
χ² / ndf 109.7 / 92
p0 3188 ± 216.9
15000
10000
5000
0
−5000
pull
Entries 93
Mean 45.23
Std Dev 0
3
2
1
0
−1
−2
−3

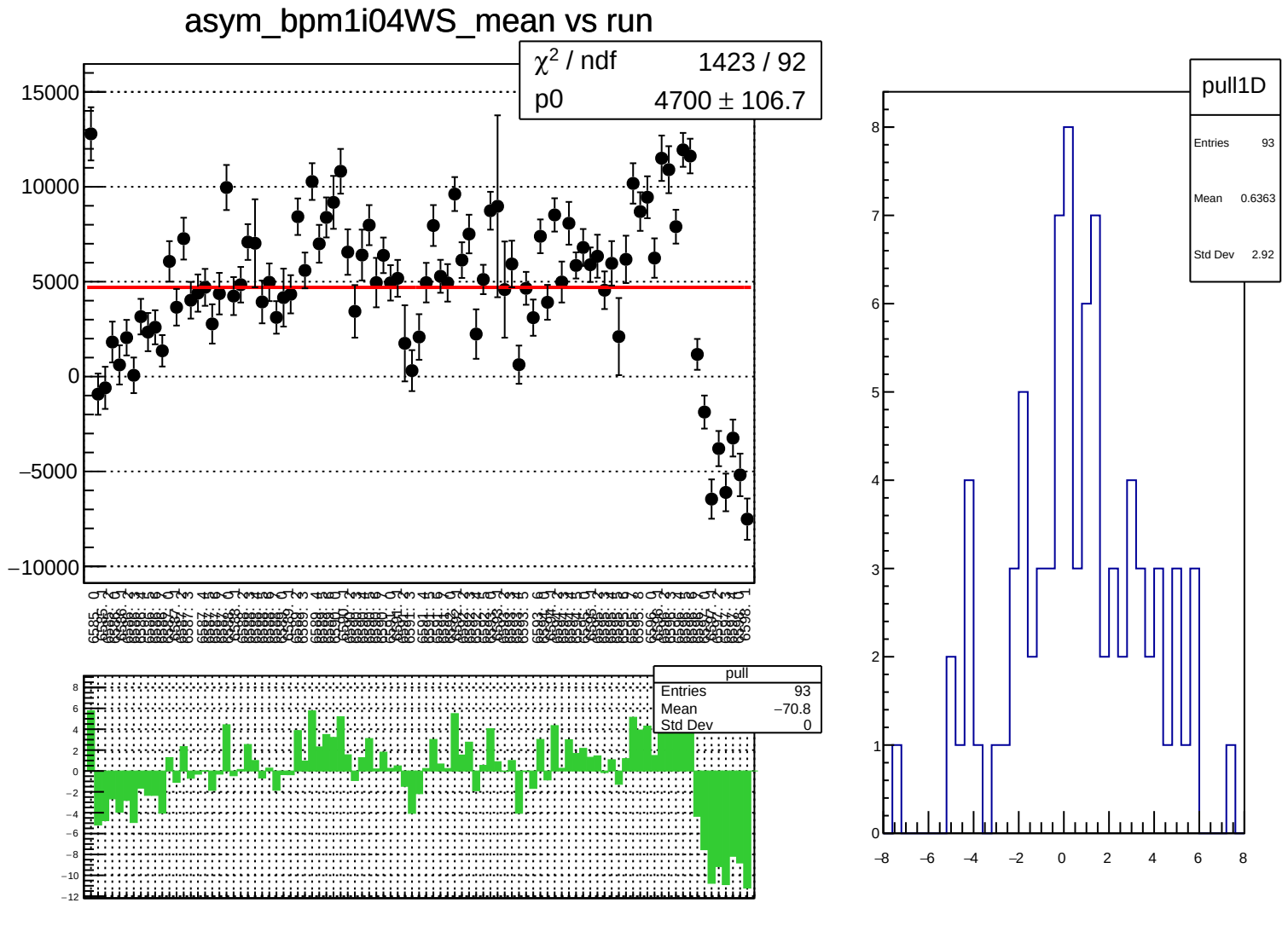

pull1D
Entries 93
Mean 0.01925
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

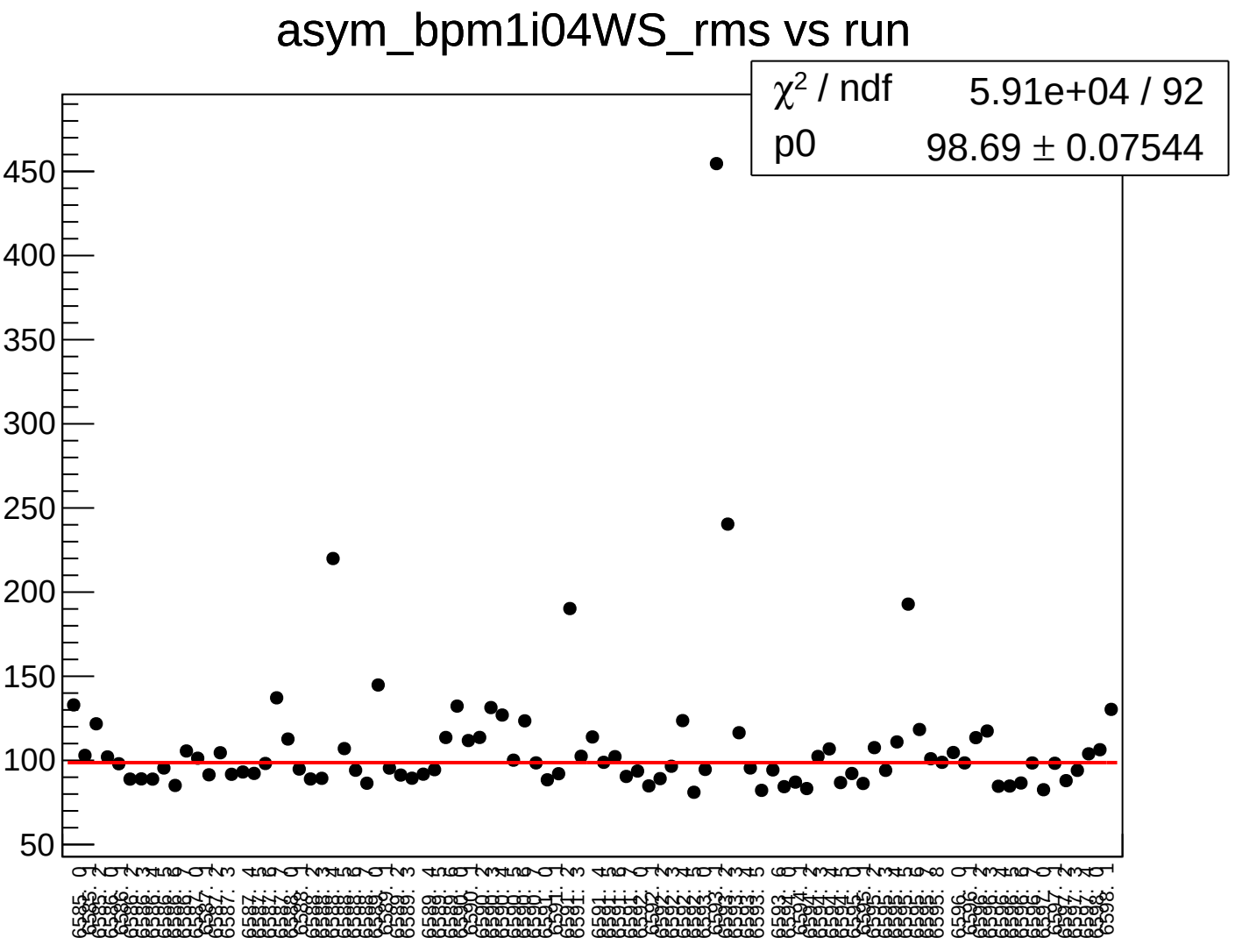

asym_bpm0i07WS_rms vs run
χ² / ndf 1.337e+04 / 92
p0 203.3 ± 0.1533
500
450
400
350
300
250
200
150

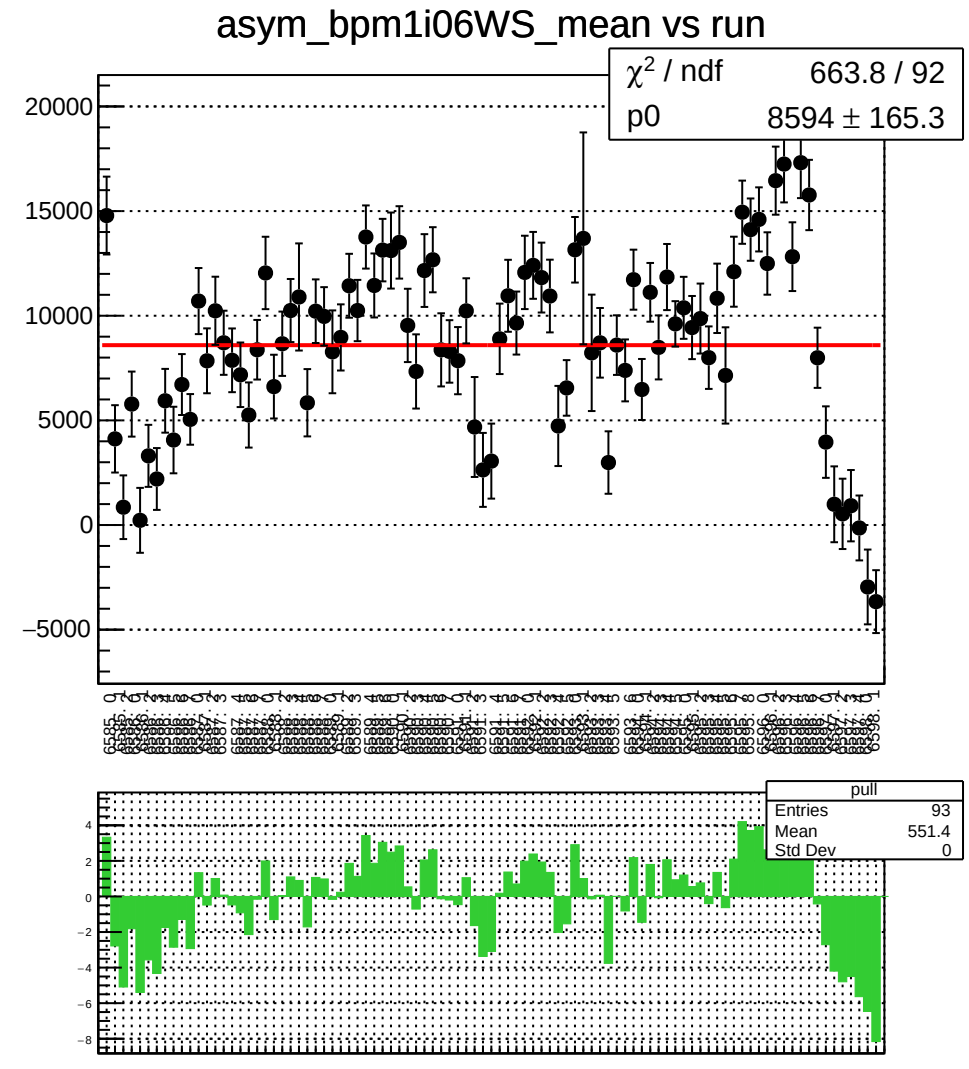

asym_bpm1i02WS_mean vs run
χ² / ndf 1144 / 92
p0 4953 ± 117.7
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −54.28
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

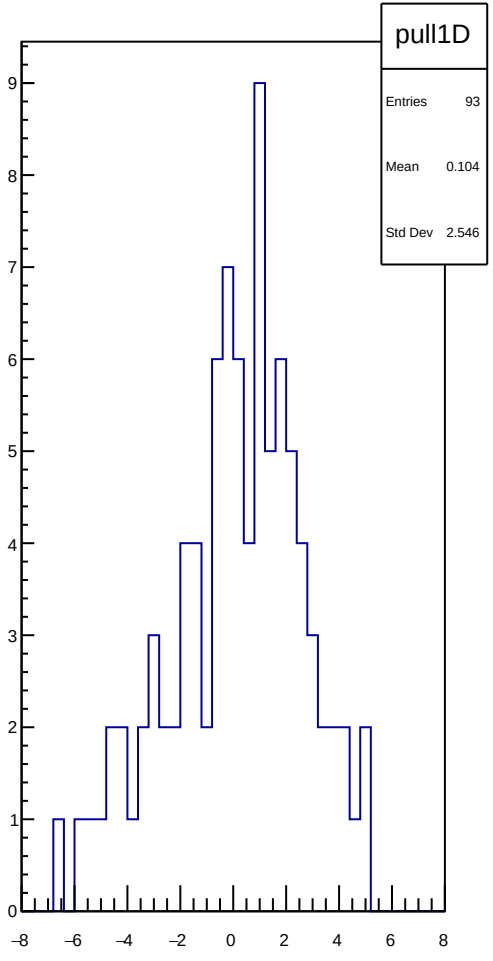

pull1D
Entries 93
Mean 0.4652
Std Dev 2.905
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

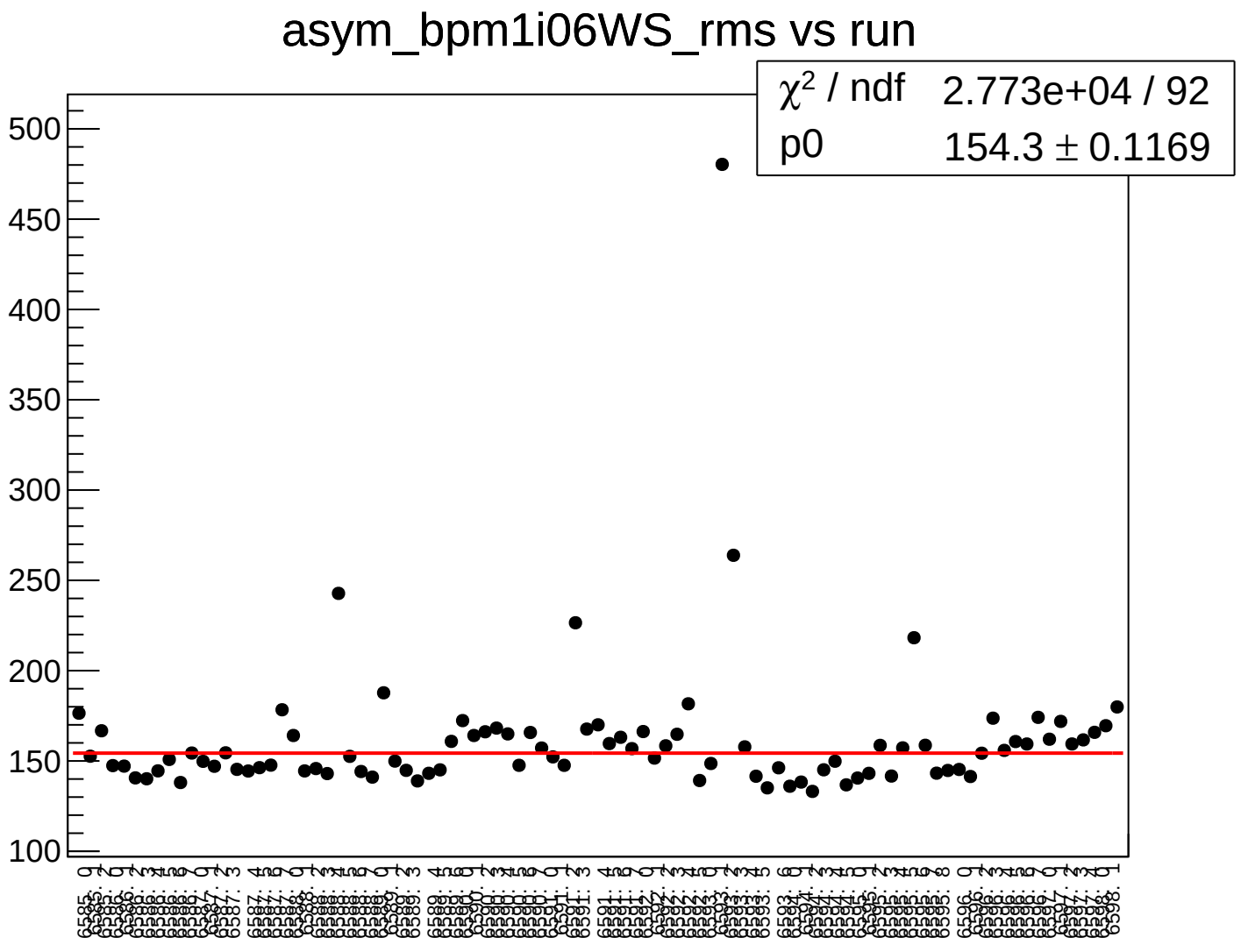

asym_bpm1i02WS_rms vs run
χ^2 / ndf 5.452e+04 / 92
p0 109.1 ± 0.08326
500
450
400
350
300
250
200
150
100

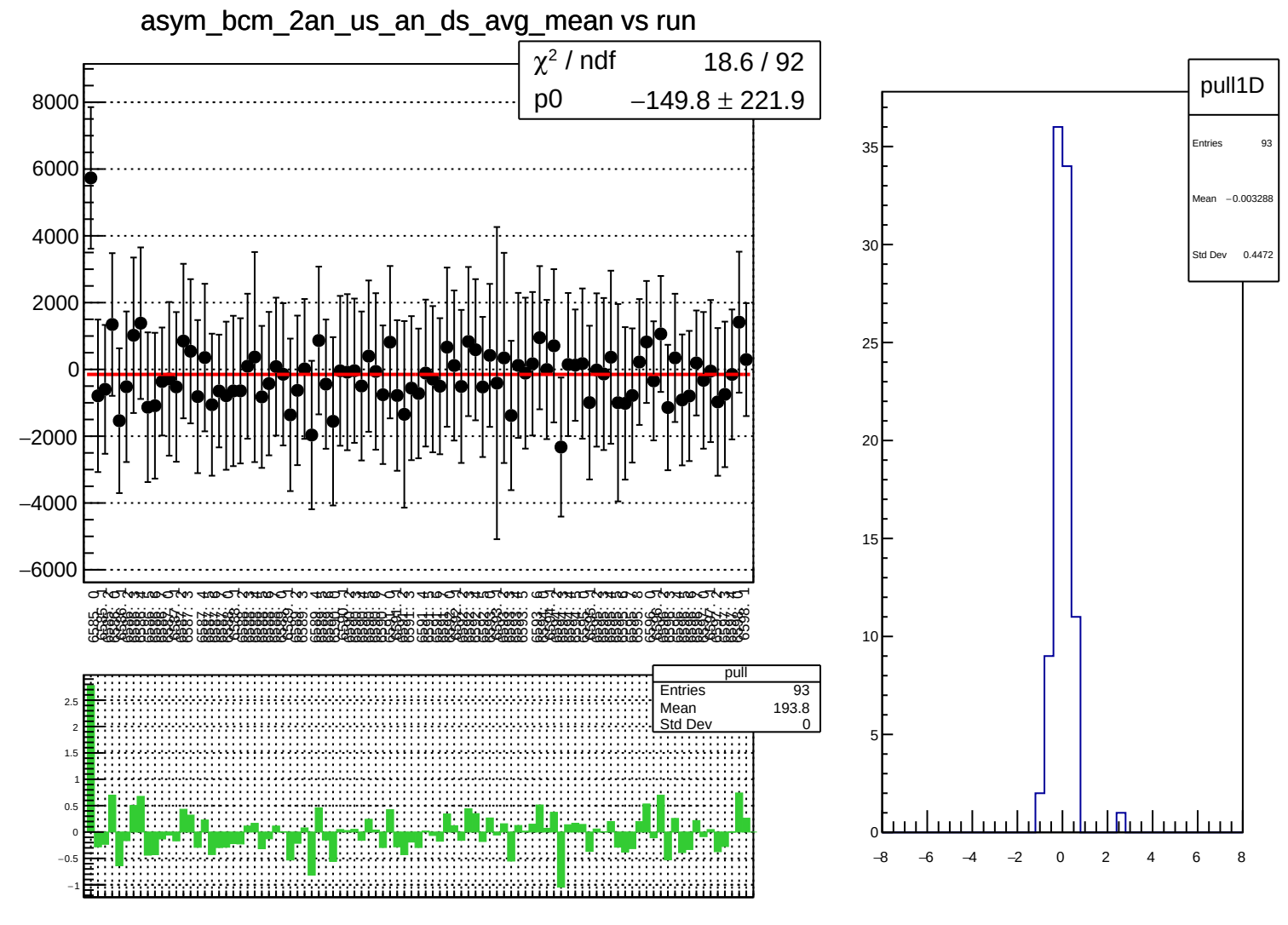

asym_bpm1i04WS_mean vs run
χ² / ndf 1423 / 92
p0 4700 ± 106.7
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −70.8
Std Dev 0
pull1D
Entries 93
Mean 0.6363
Std Dev 2.92

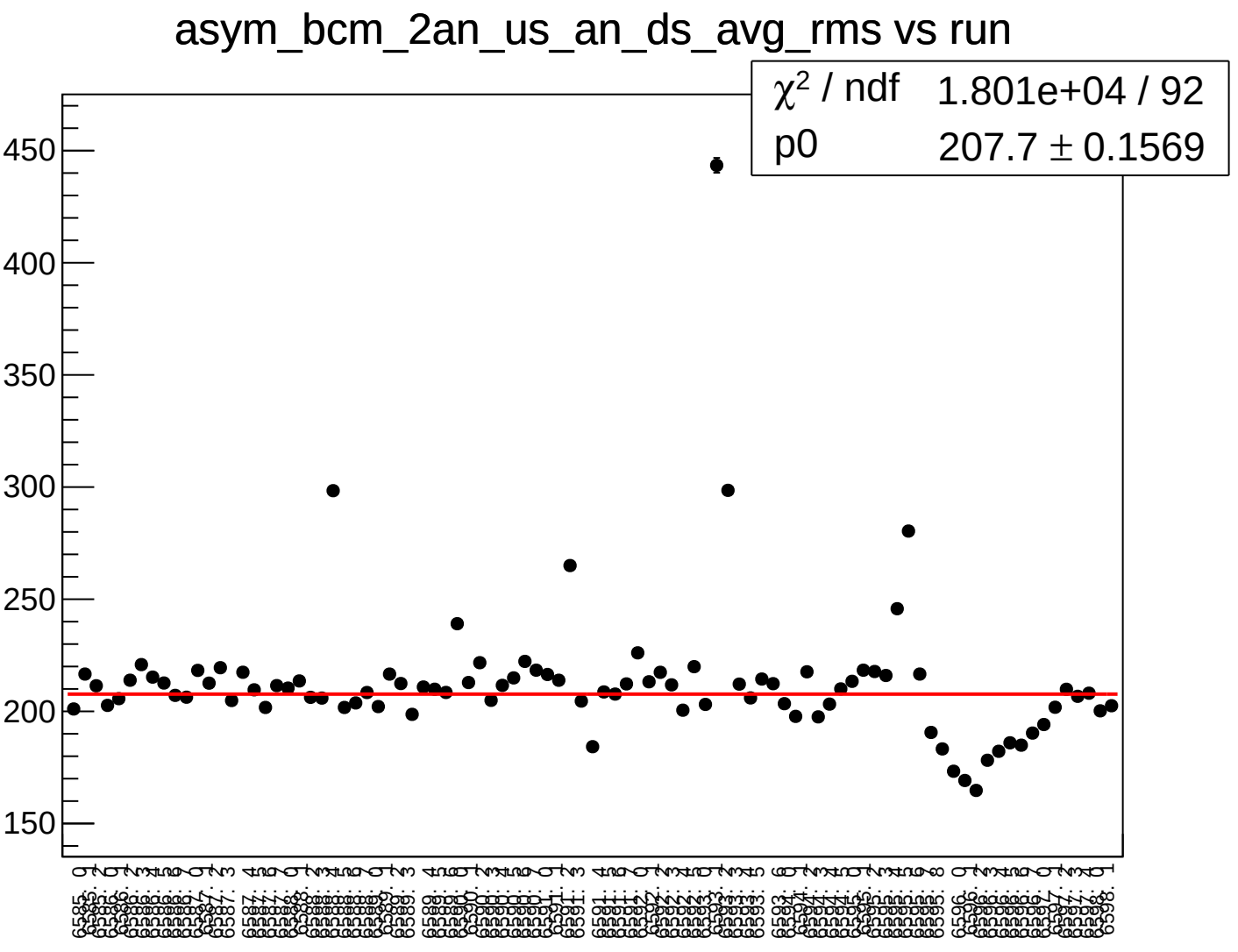

asym_bpm1i04WS_rms vs run
χ^2 / ndf 5.91e+04 / 92
p0 98.69 ± 0.07544
450
400
350
300
250
200
150
100
50

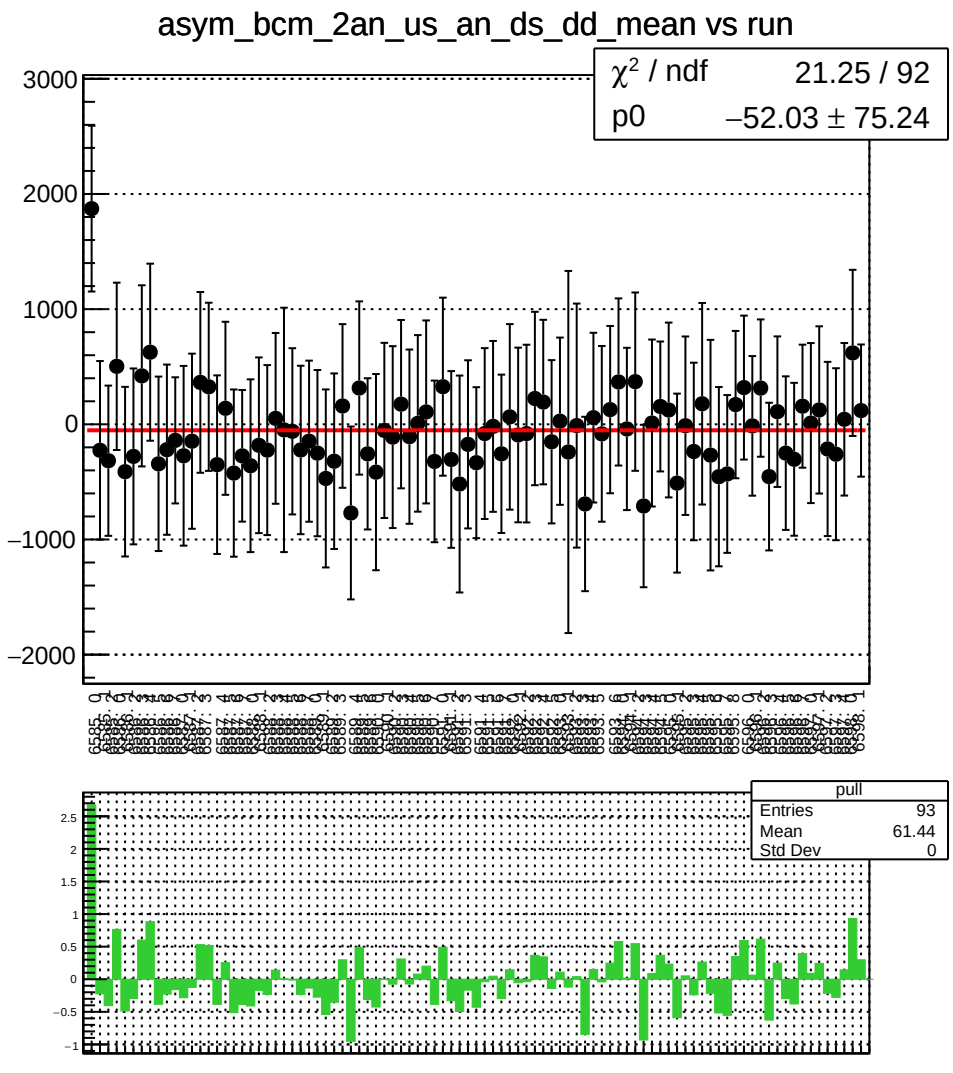

asym_bpm1i06WS_mean vs run
χ² / ndf 663.8 / 92
p0 8594 ± 165.3
20000
15000
10000
5000
0
−5000
pull
Entries 93
Mean 551.4
Std Dev 0
4
2
0
−2
−4
−6
−8

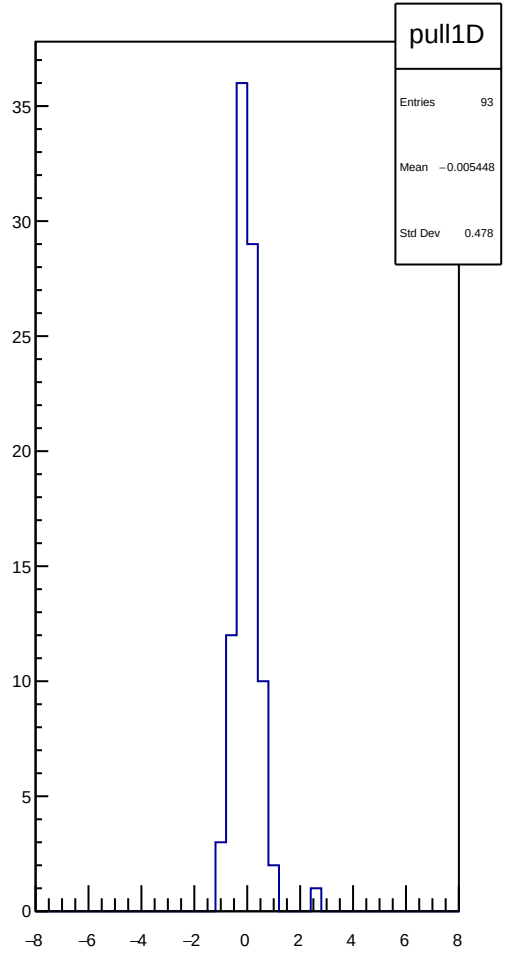

pull1D
Entries 93
Mean 0.104
Std Dev 2.546
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

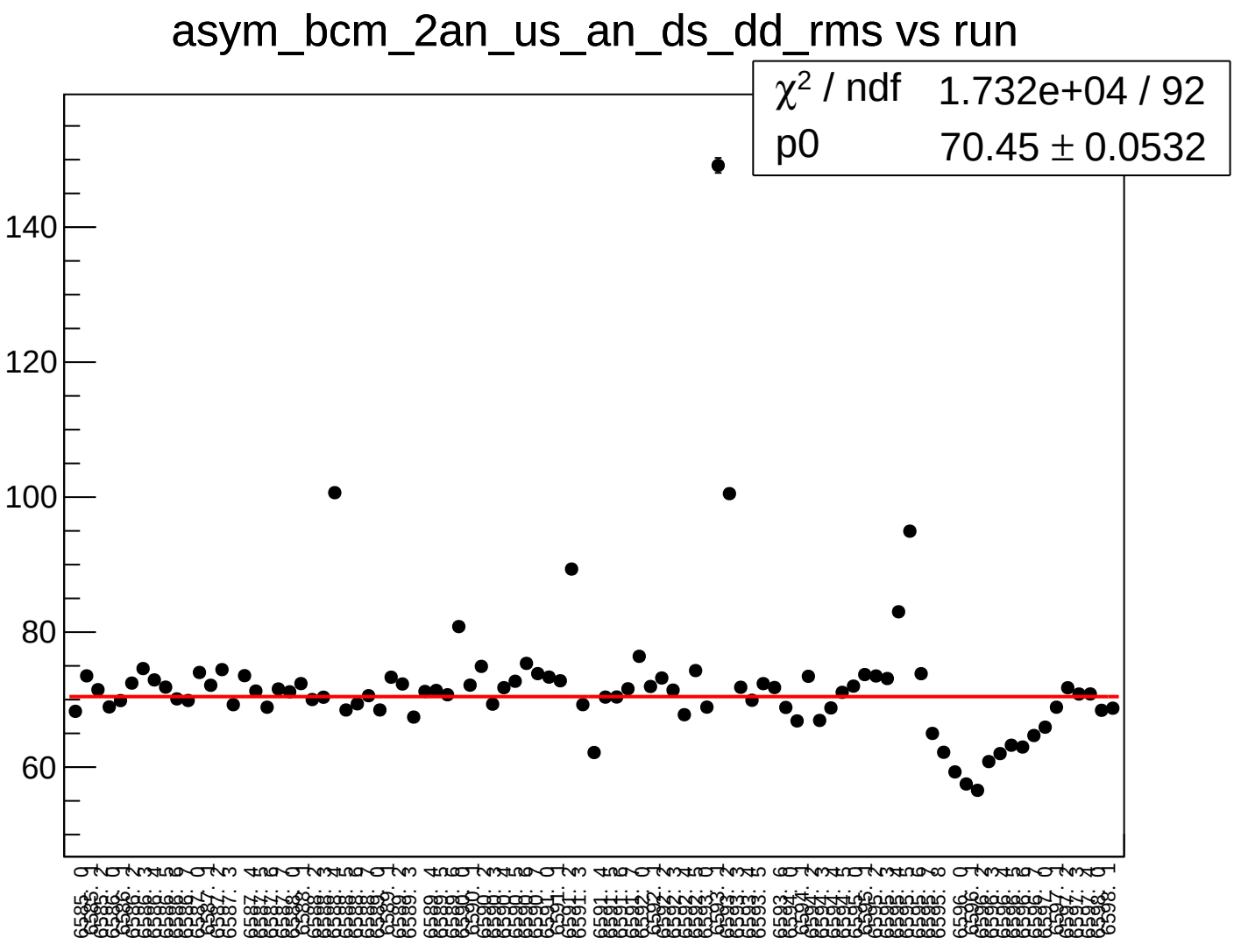

asym_bpm1i06WS_rms vs run
χ² / ndf 2.773e+04 / 92
p0 154.3 ± 0.1169
500
450
400
350
300
250
200
150
100

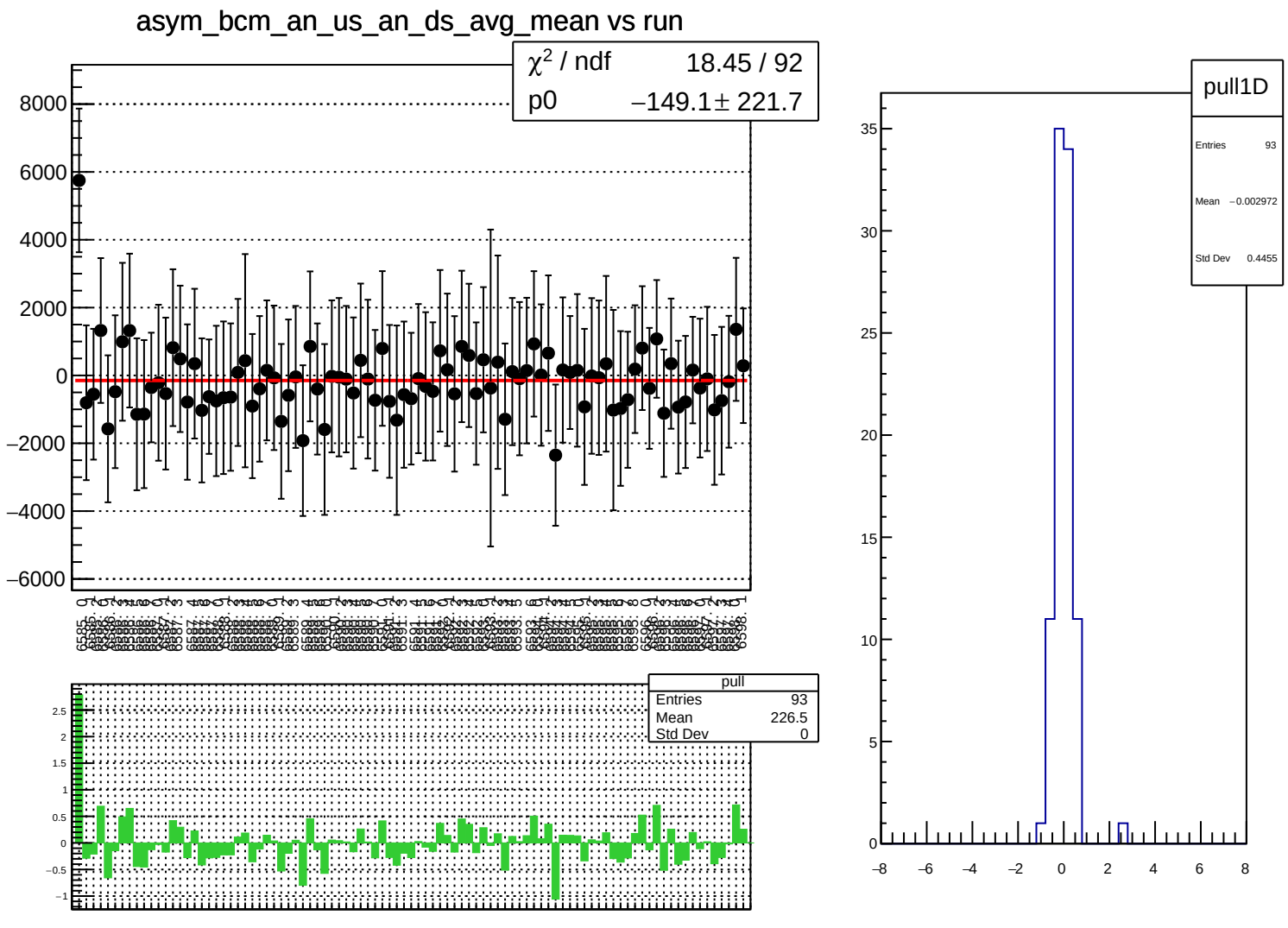

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 18.6 / 92
p0 −149.8 ± 221.9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 193.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.003288
Std Dev 0.4472
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

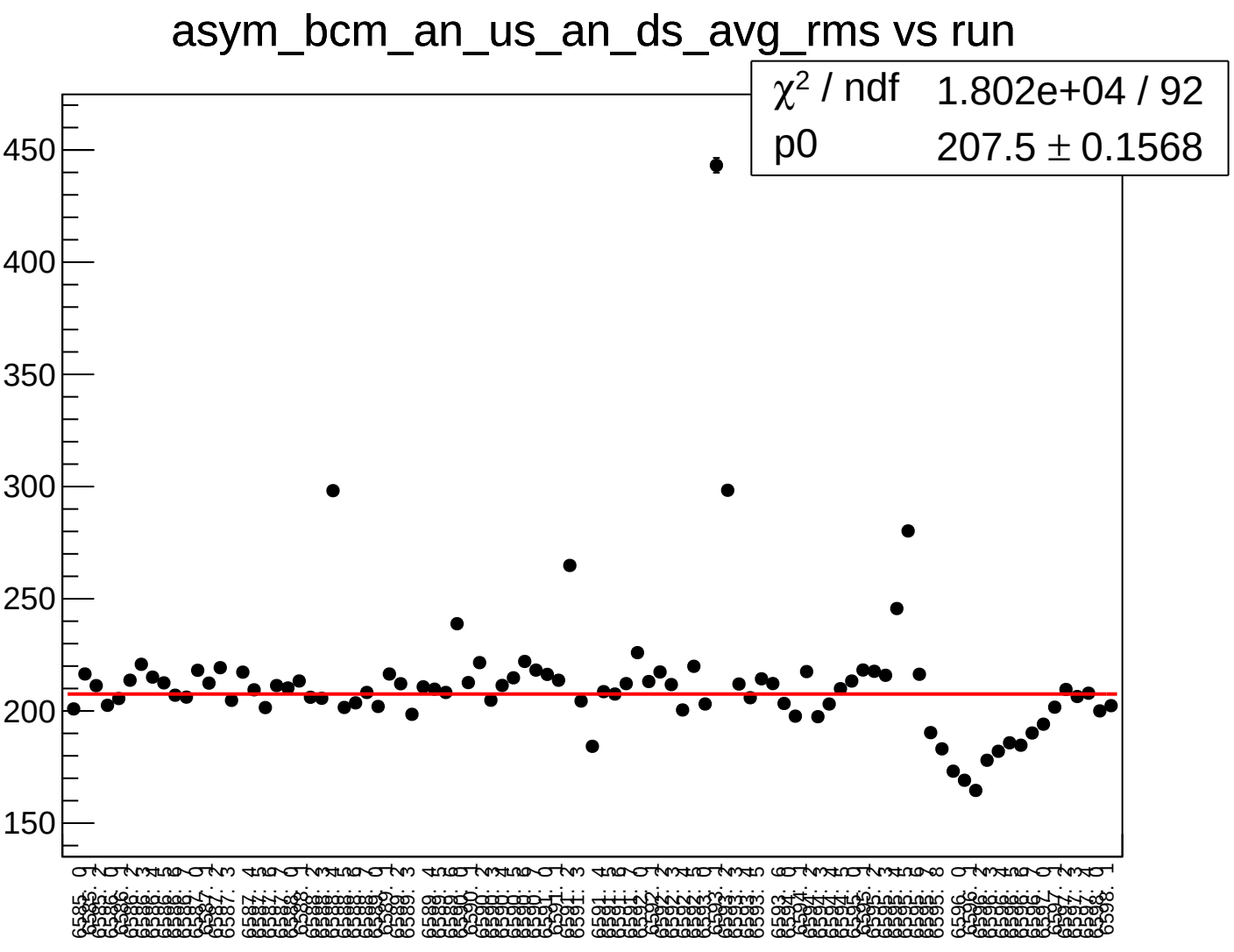

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.801e+04 / 92
p0 207.7 ± 0.1569
450
400
350
300
250
200
150

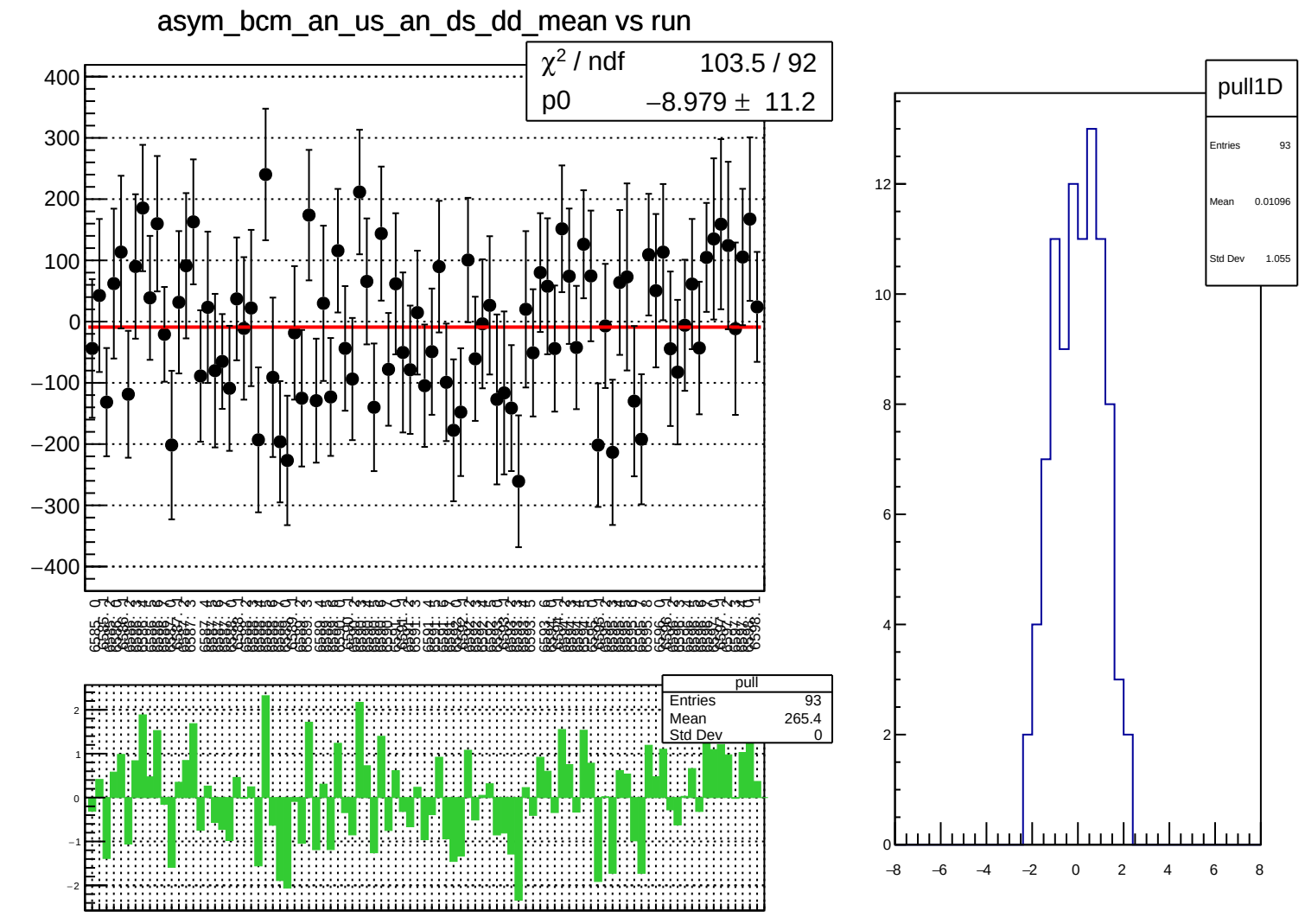

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 21.25 / 92
p0 −52.03 ± 75.24
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 61.44
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 93
Mean −0.005448
Std Dev 0.478
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

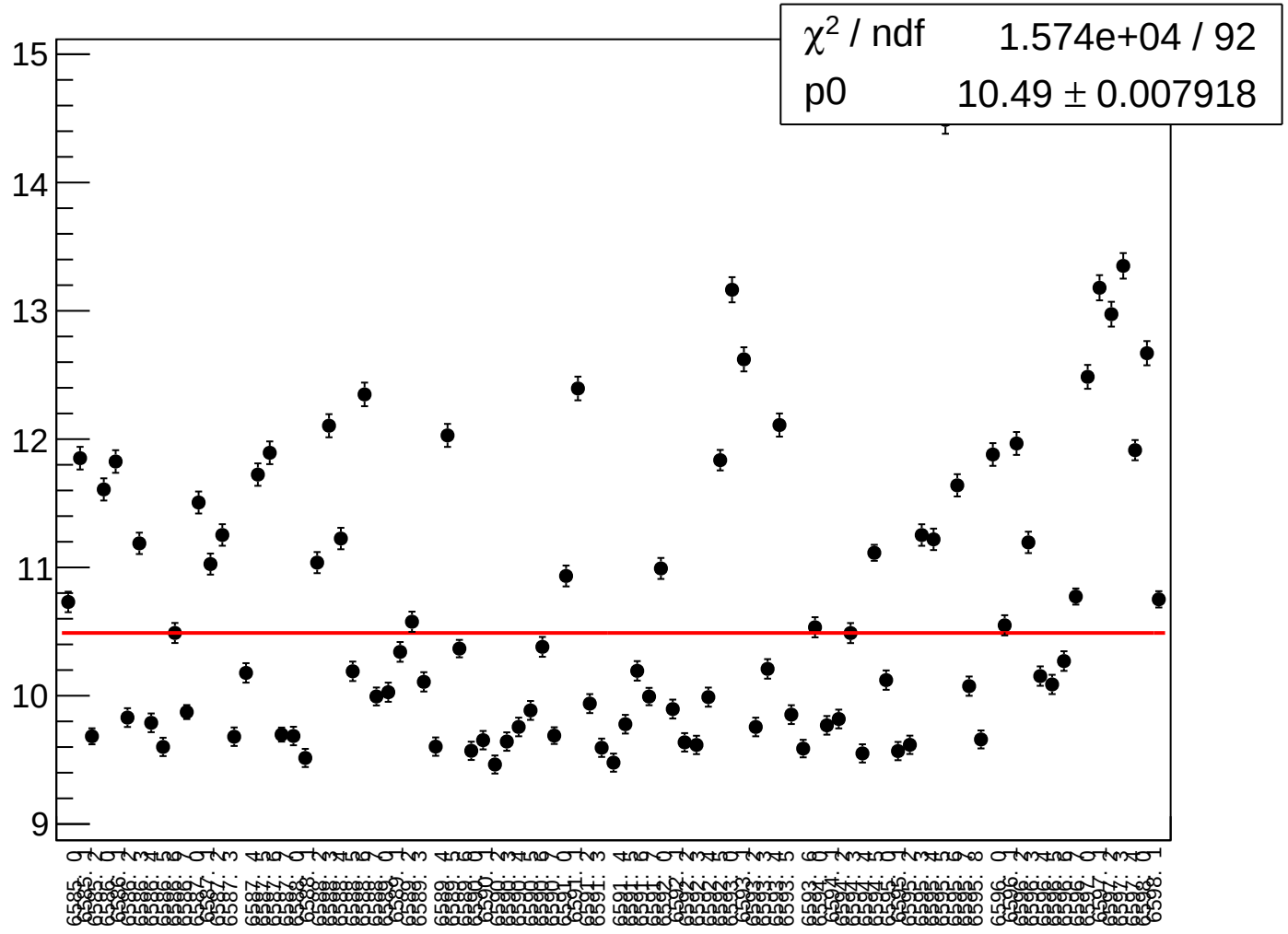

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.732e+04 / 92
p0 70.45 ± 0.0532
140
120
100
80
60

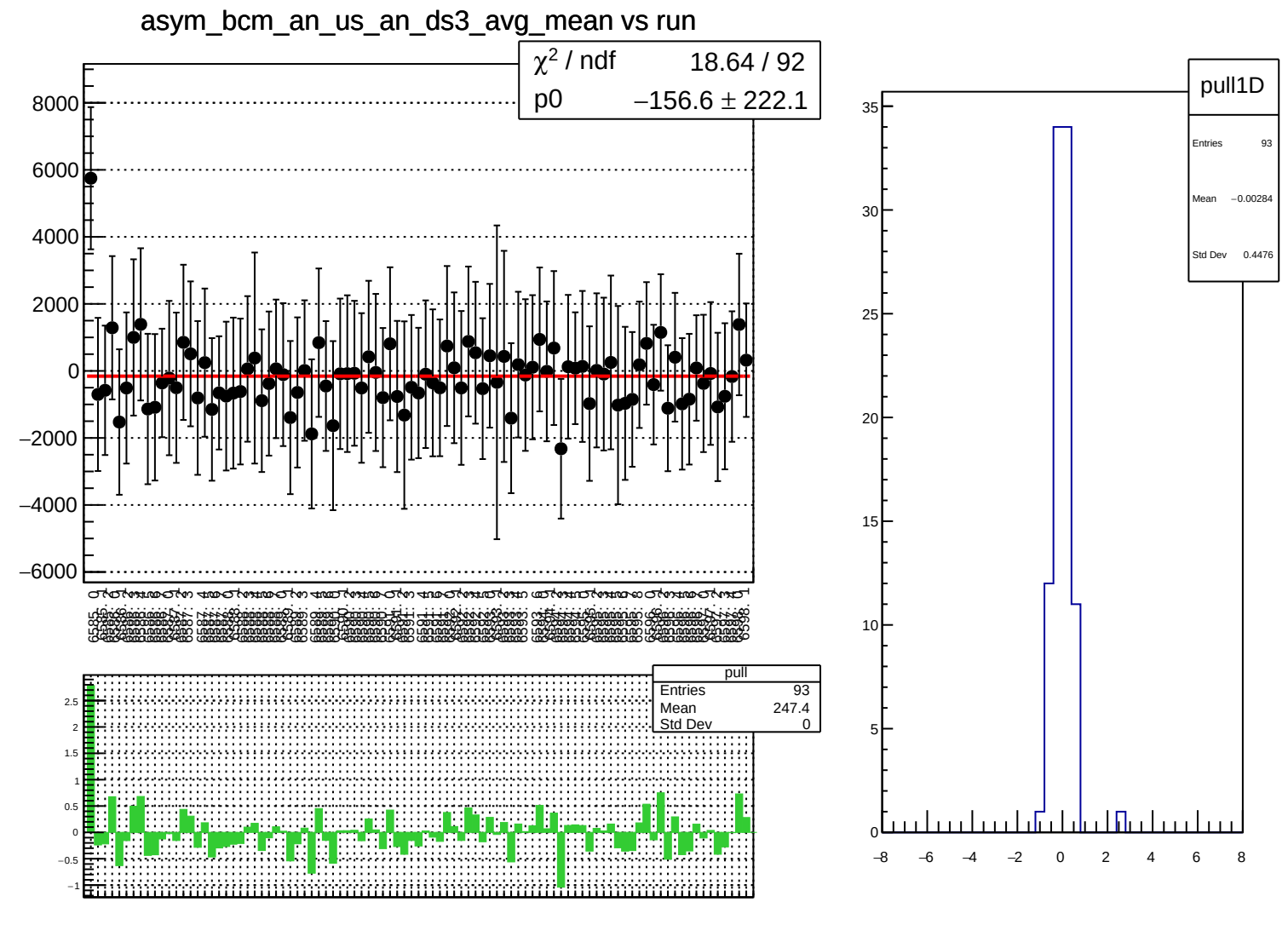

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 18.45 / 92
p0 −149.1± 221.7
pull
Entries 93
Mean 226.5
Std Dev 0
pull1D
Entries 93
Mean −0.002972
Std Dev 0.4455

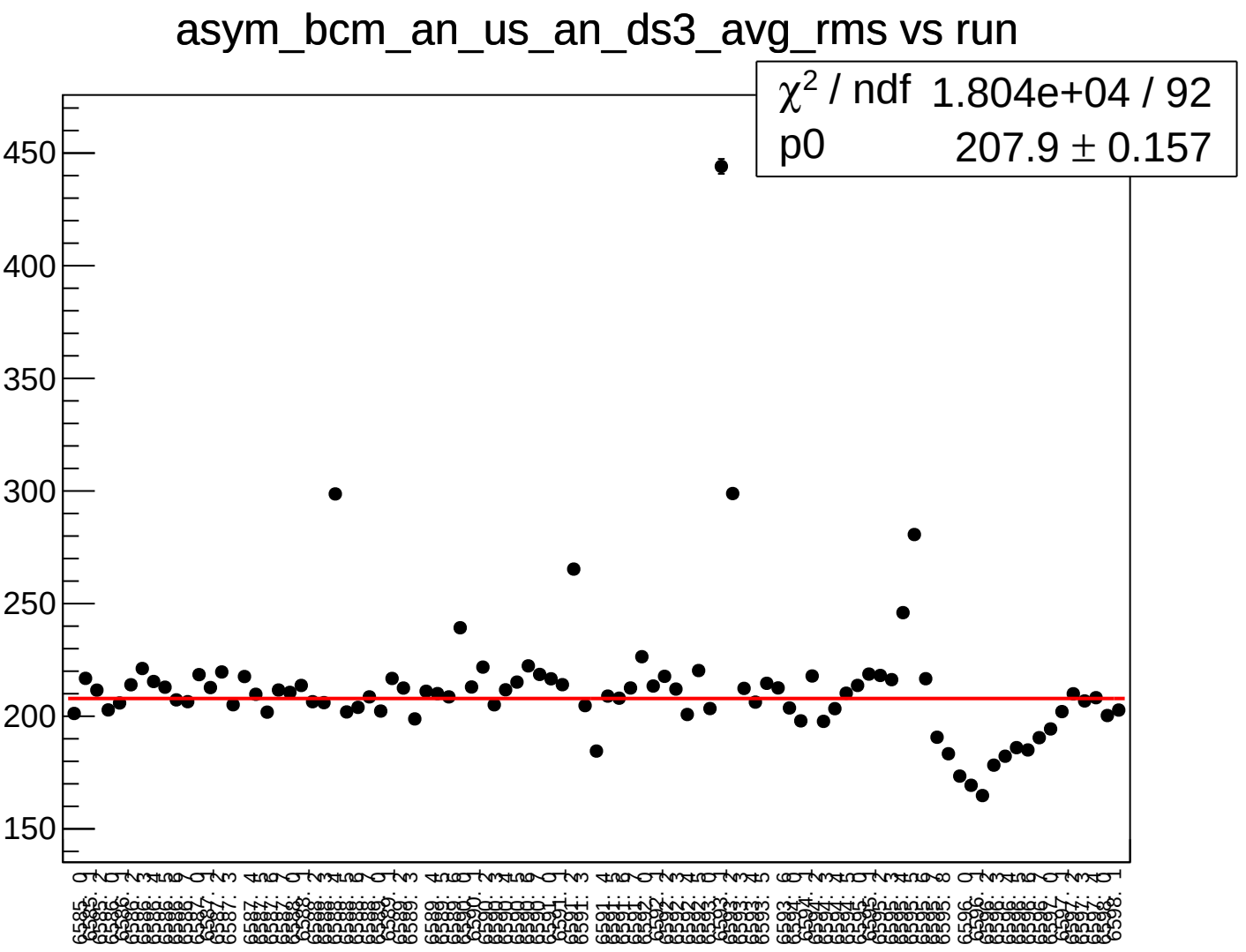

asym_bcm_an_us_an_ds_avg_rms vs run
χ^2 / ndf 1.802e+04 / 92
p0 207.5 ± 0.1568
450
400
350
300
250
200
150

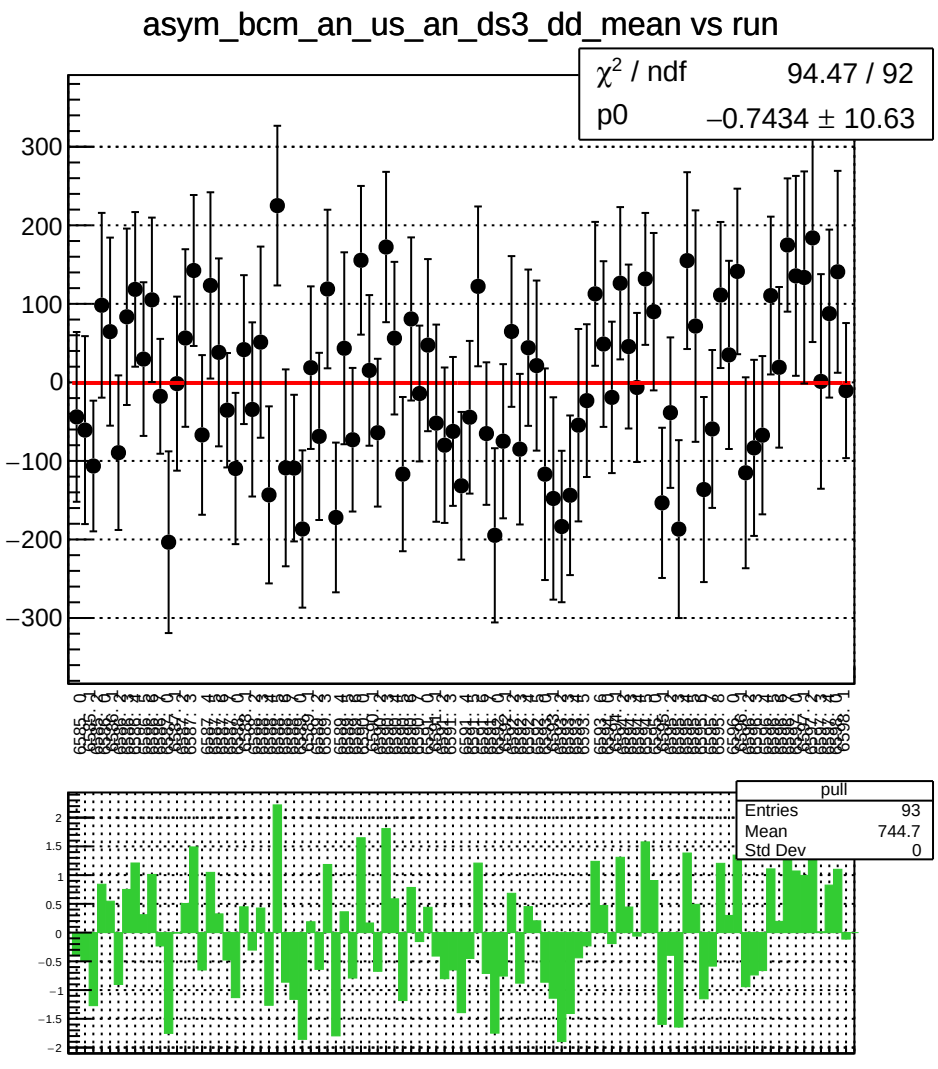

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 103.5 / 92
p0 −8.979 ± 11.2
pull
Entries 93
Mean 265.4
Std Dev 0
pull1D
Entries 93
Mean 0.01096
Std Dev 1.055

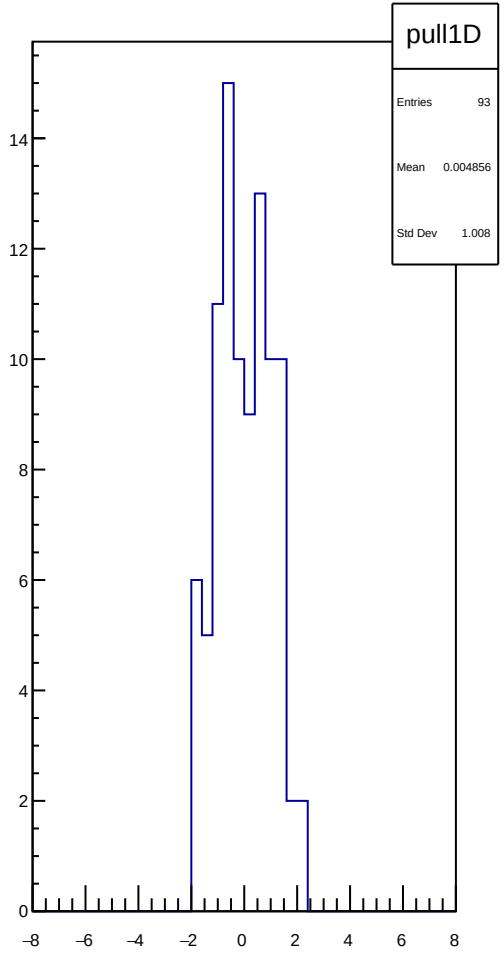
asym_bcm_an_us_an_ds_dd_rms vs run



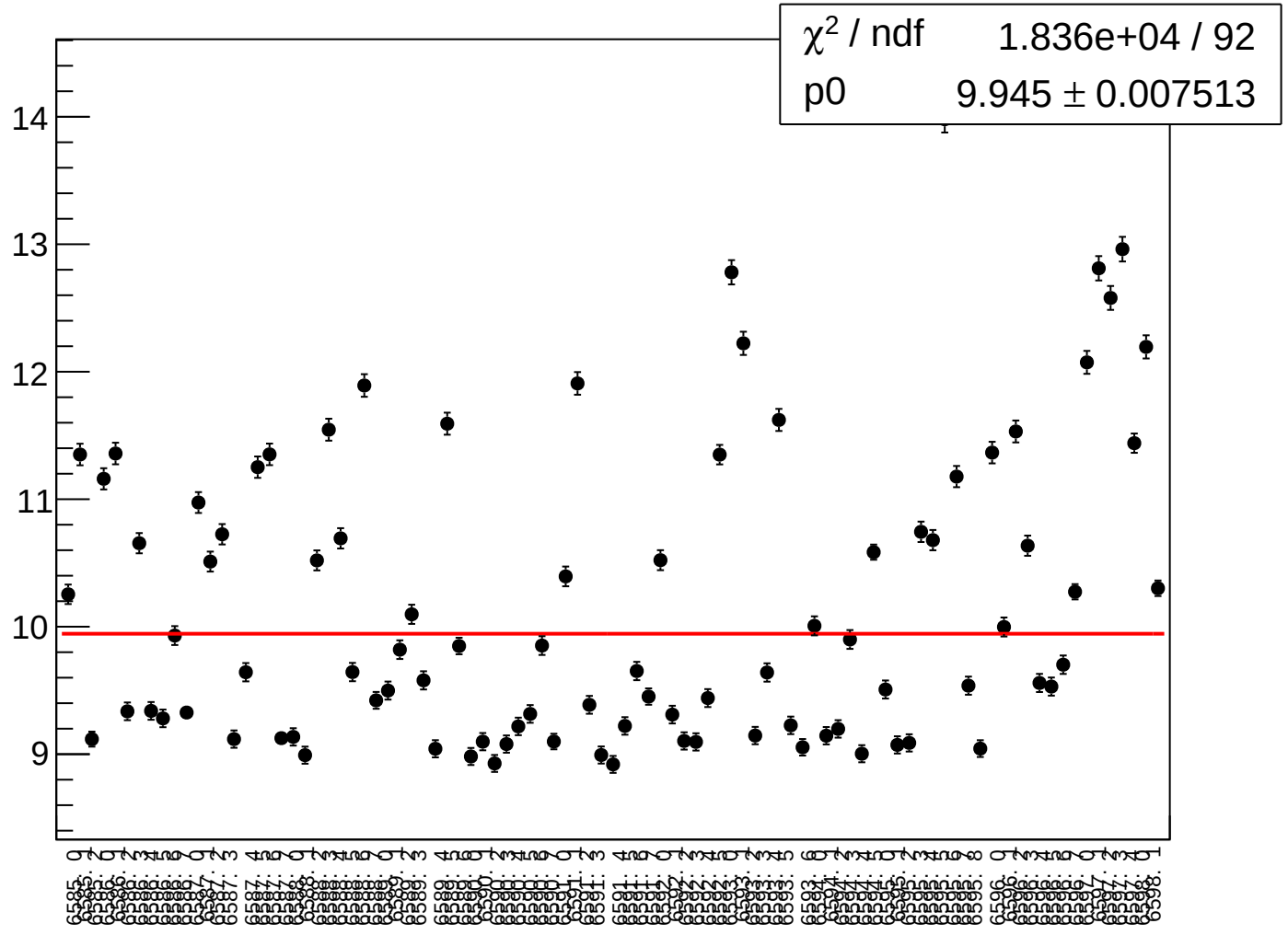

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 18.64 / 92
p0 −156.6 ± 222.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 247.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.00284
Std Dev 0.4476
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

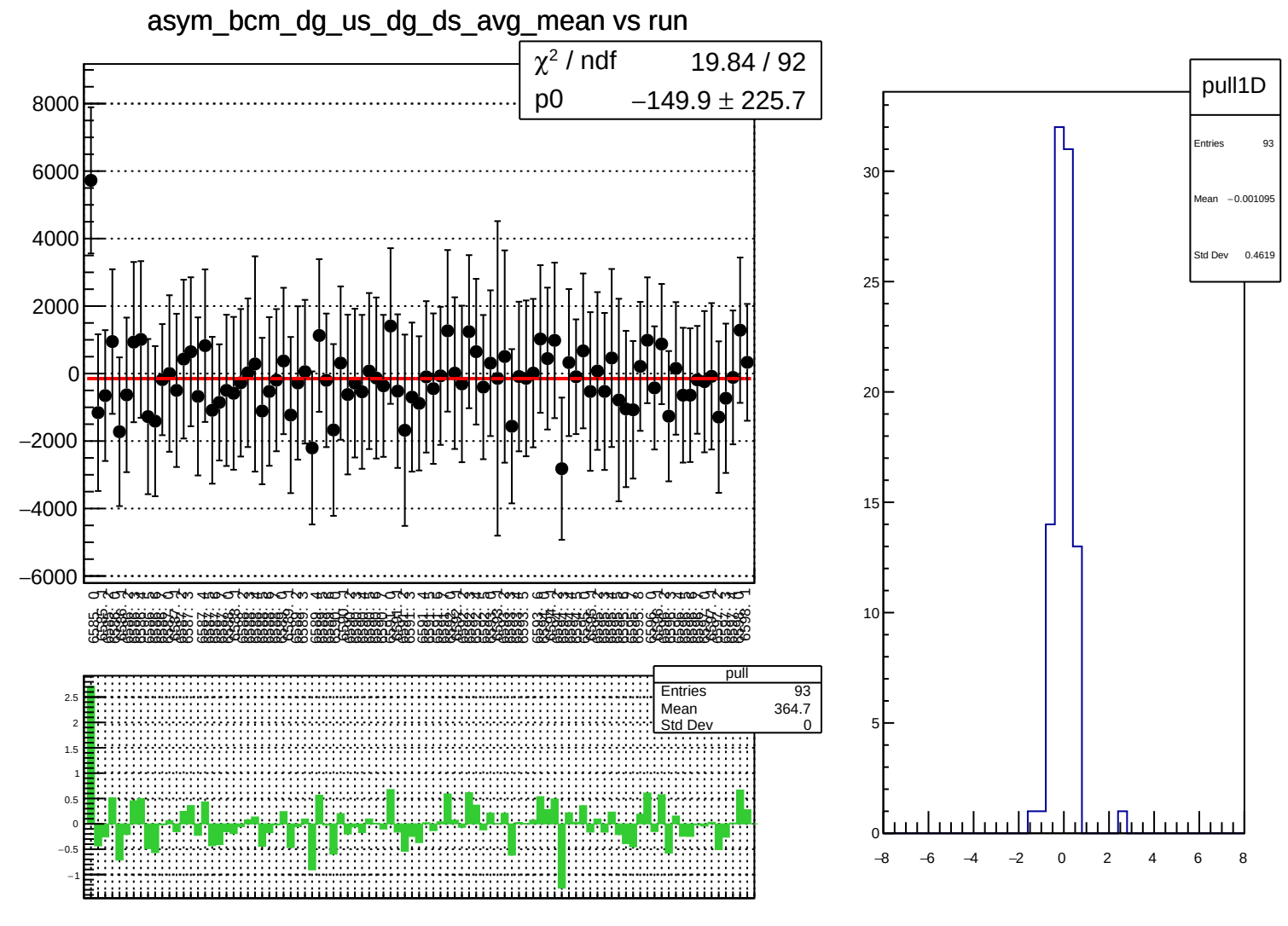

asym_bcm_an_us_an_ds3_avg_rms vs run
χ^2 / ndf 1.804e+04 / 92
p0 207.9 ± 0.157
450
400
350
300
250
200
150

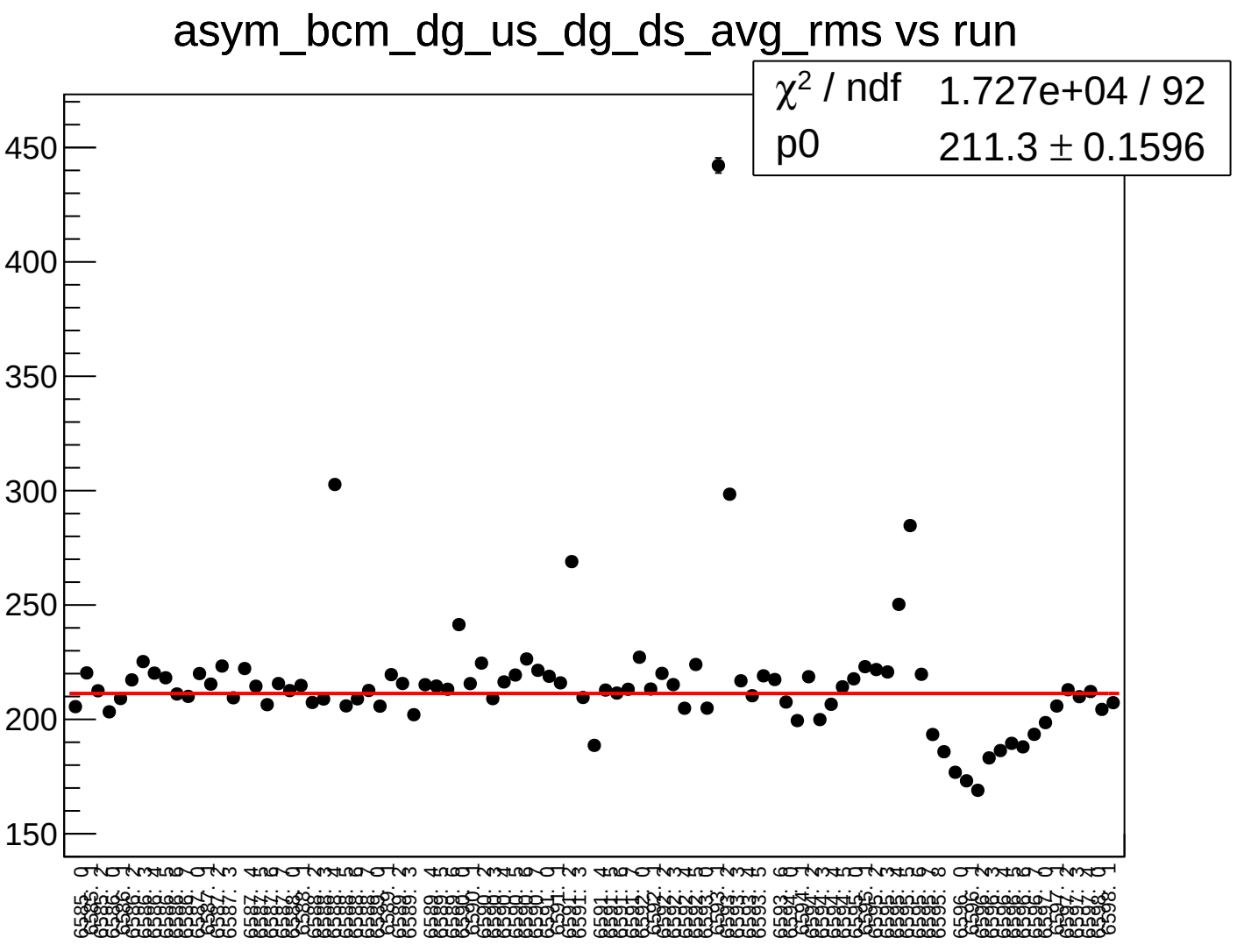

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 94.47 / 92
p0 −0.7434 ± 10.63
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 744.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

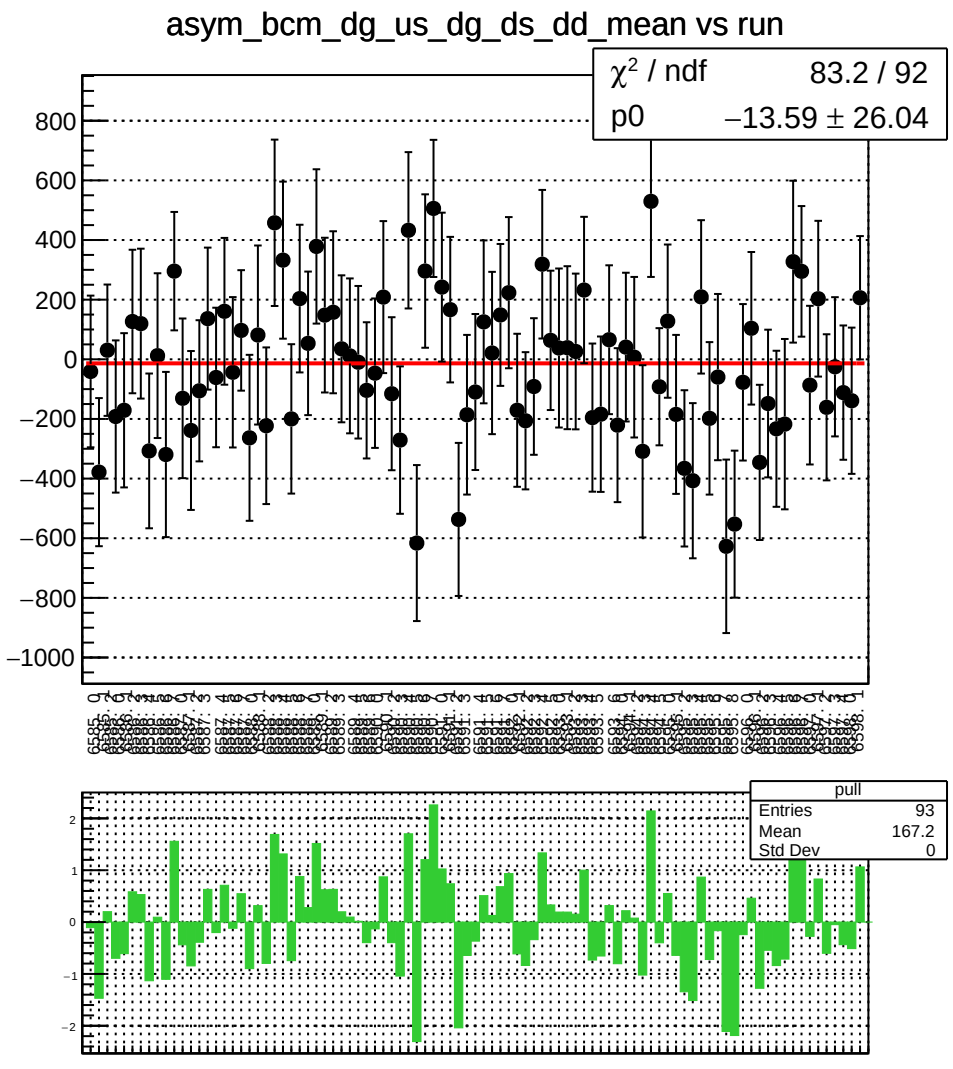

pull1D
Entries 93
Mean 0.004856
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

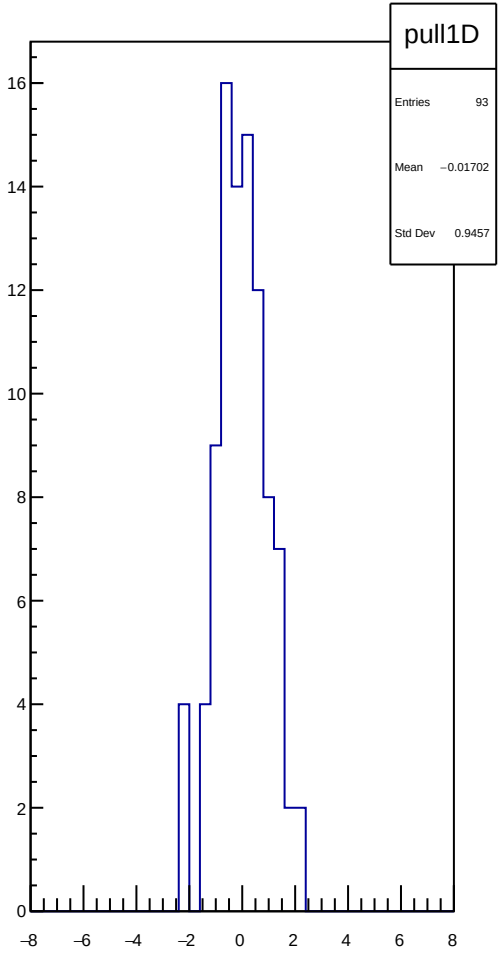
asym_bcm_an_us_an_ds3_dd_rms vs run

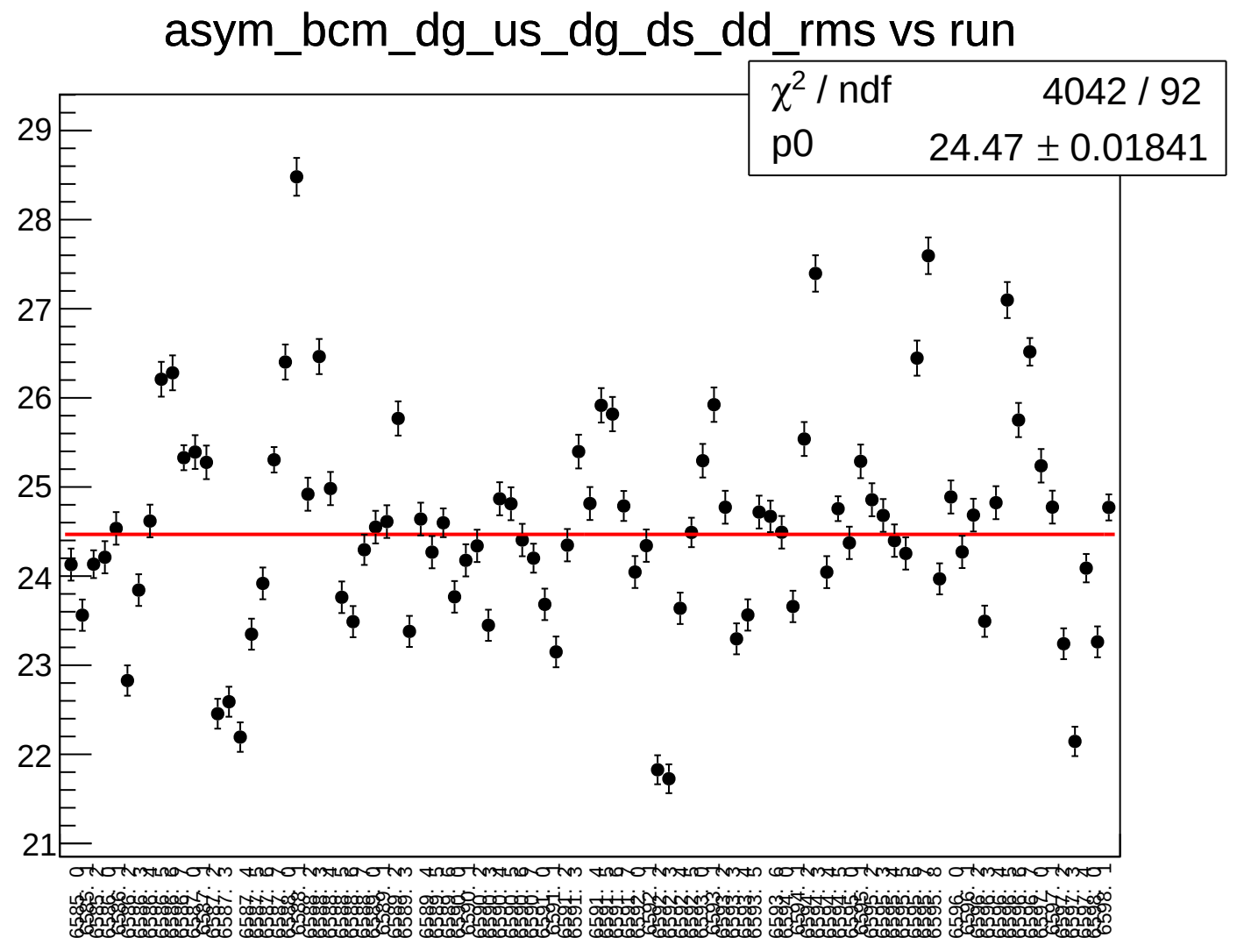


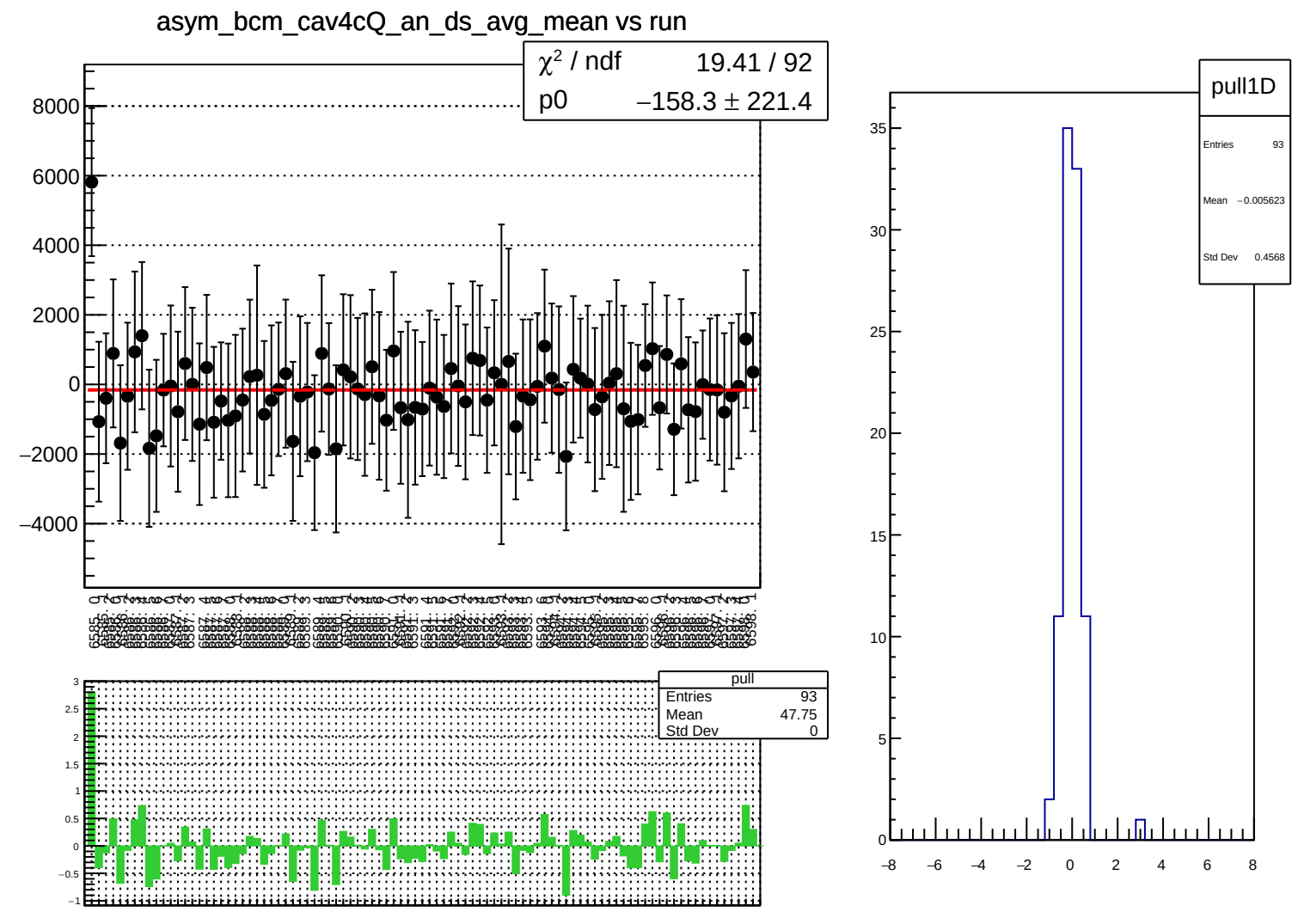

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 19.84 / 92
p0 −149.9 ± 225.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 364.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.001095
Std Dev 0.4619
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

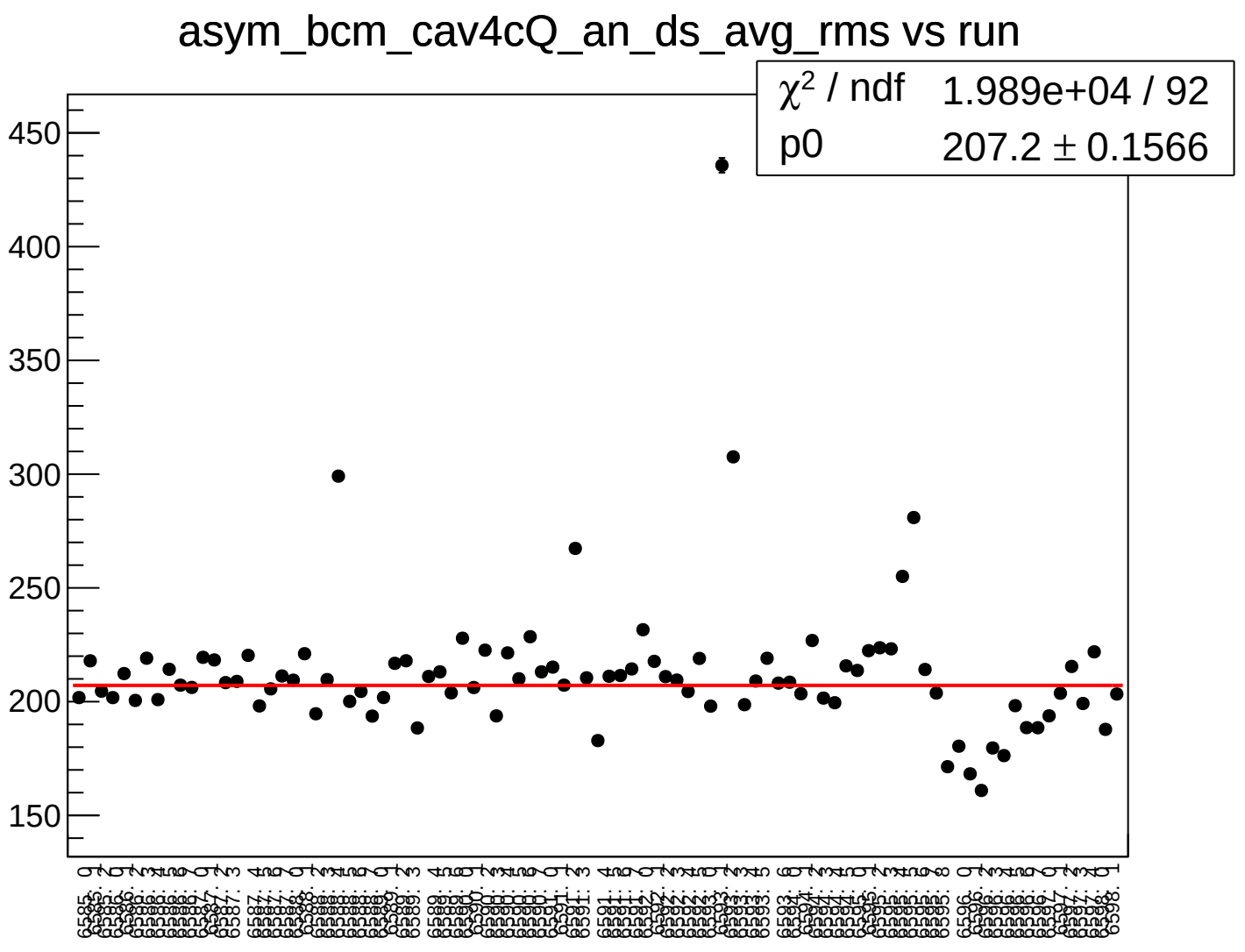

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.727e+04 / 92
p0 211.3 ± 0.1596
450
400
350
300
250
200
150

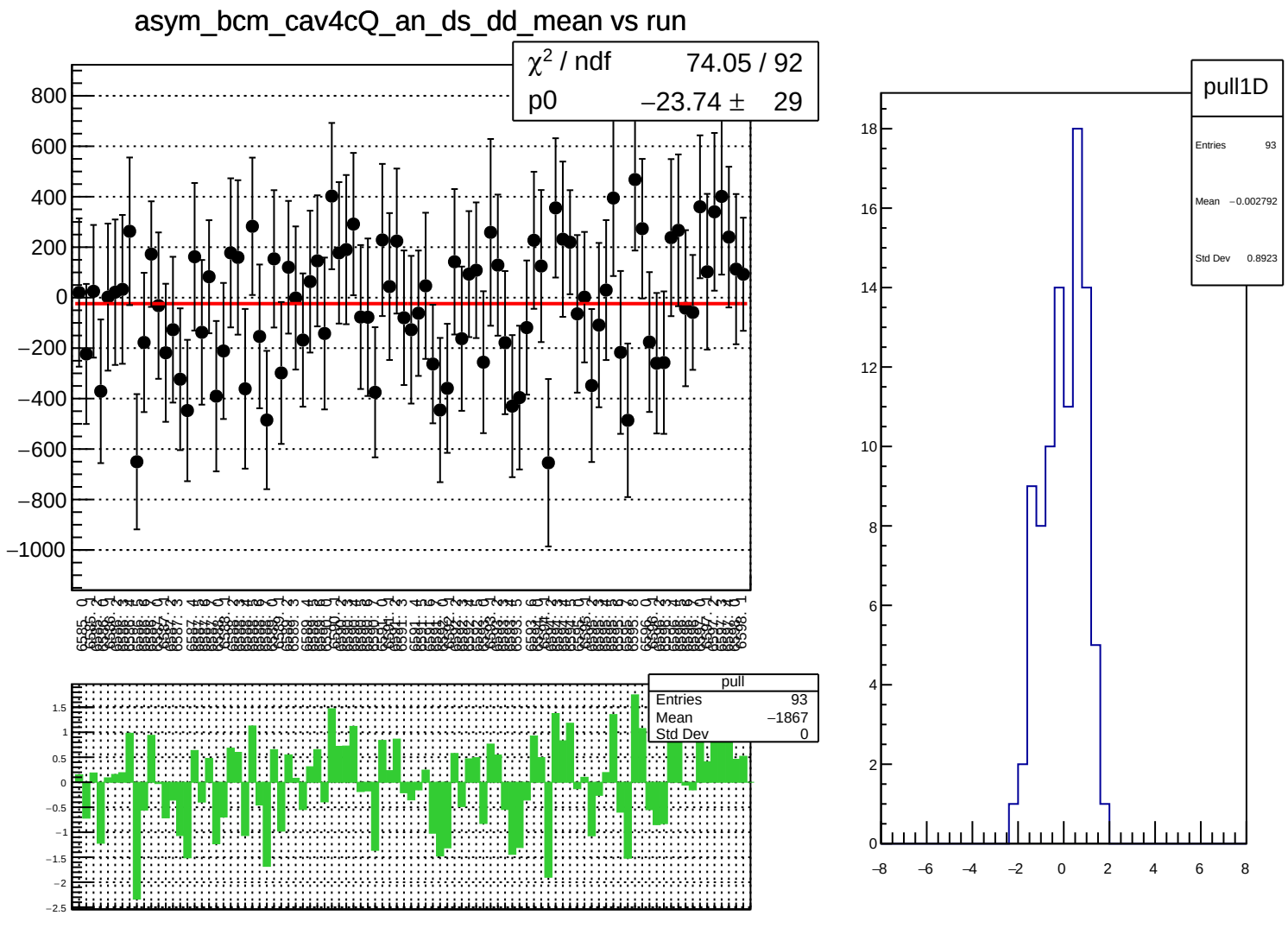

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 83.2 / 92
p0 −13.59 ± 26.04
pull
Entries 93
Mean 167.2
Std Dev 0

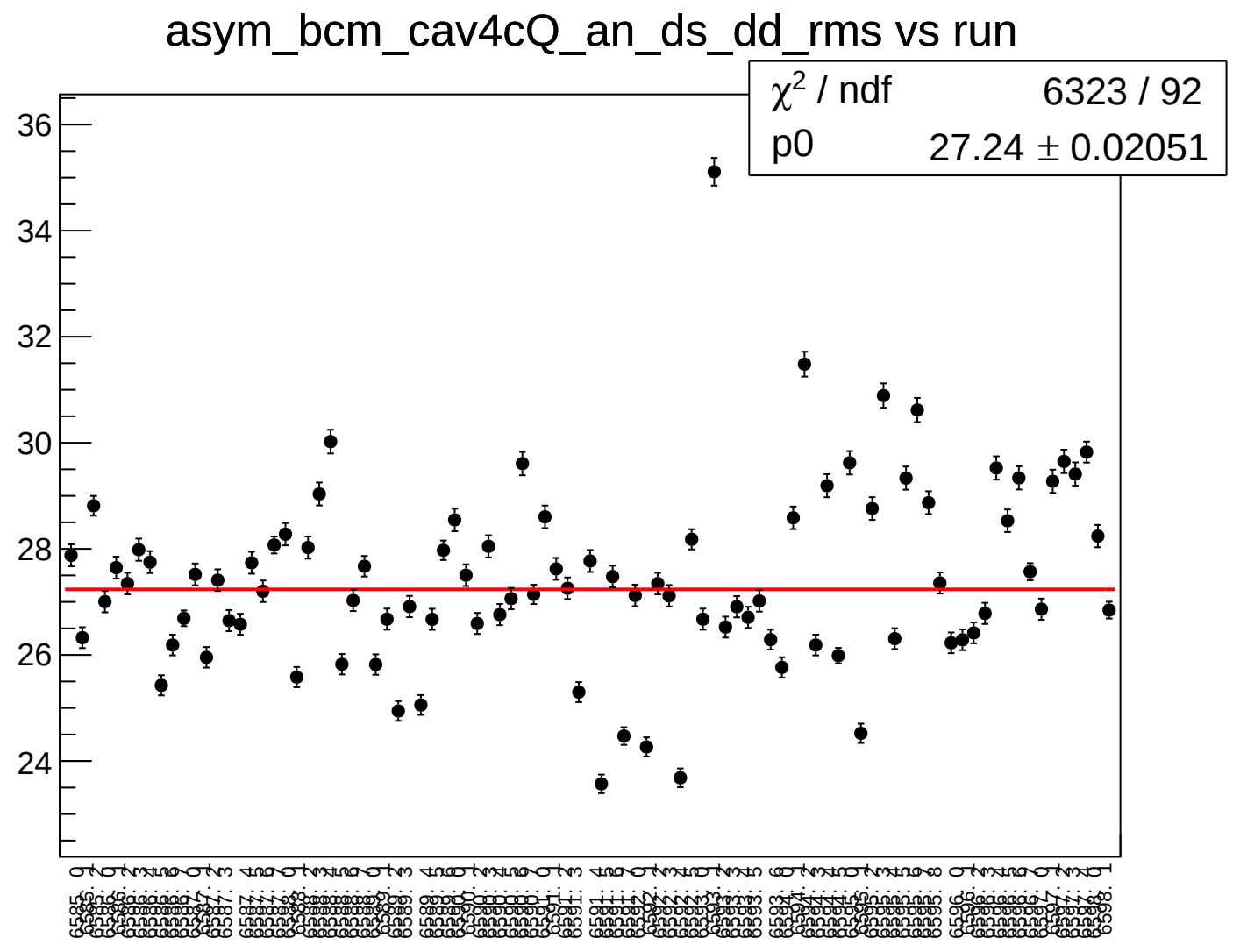

pull1D
Entries 93
Mean −0.01702
Std Dev 0.9457

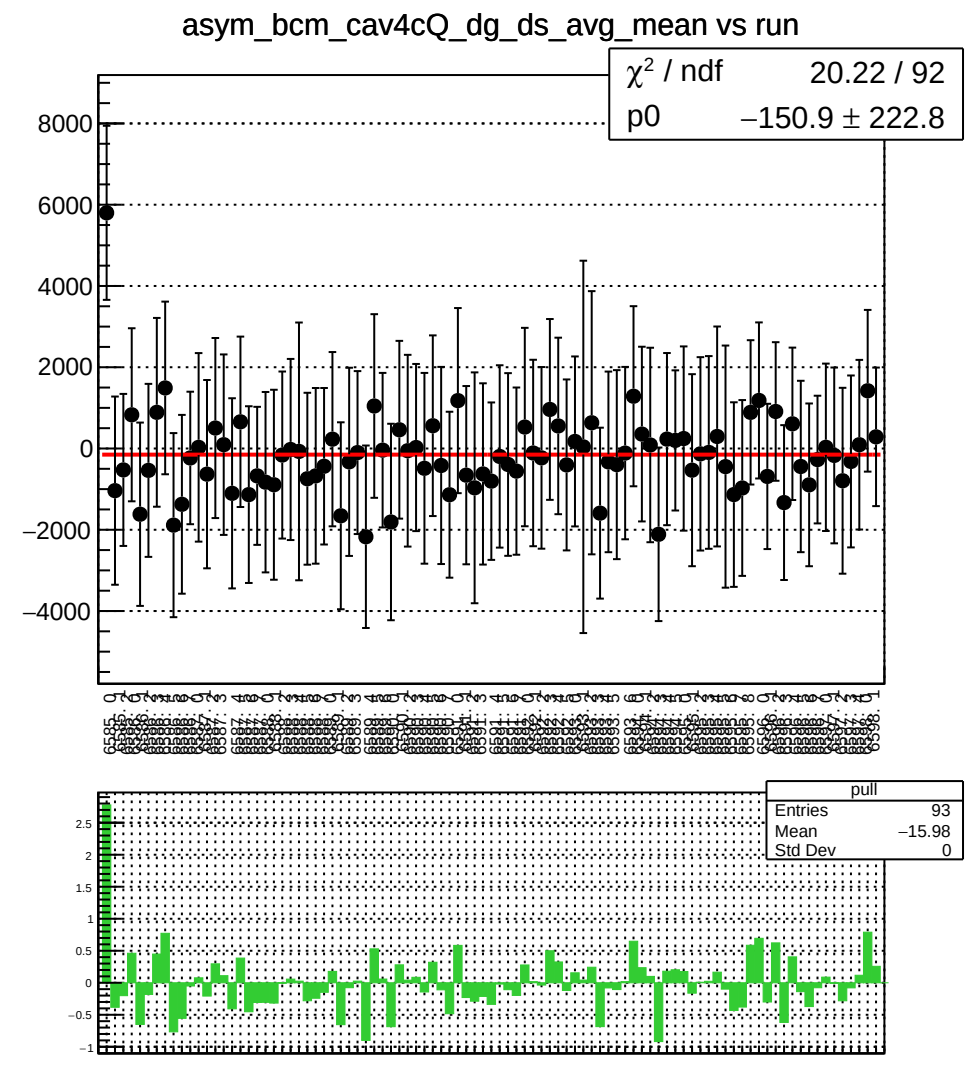

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 4042 / 92
p0 24.47 ± 0.01841
29
28
27
26
25
24
23
22
21

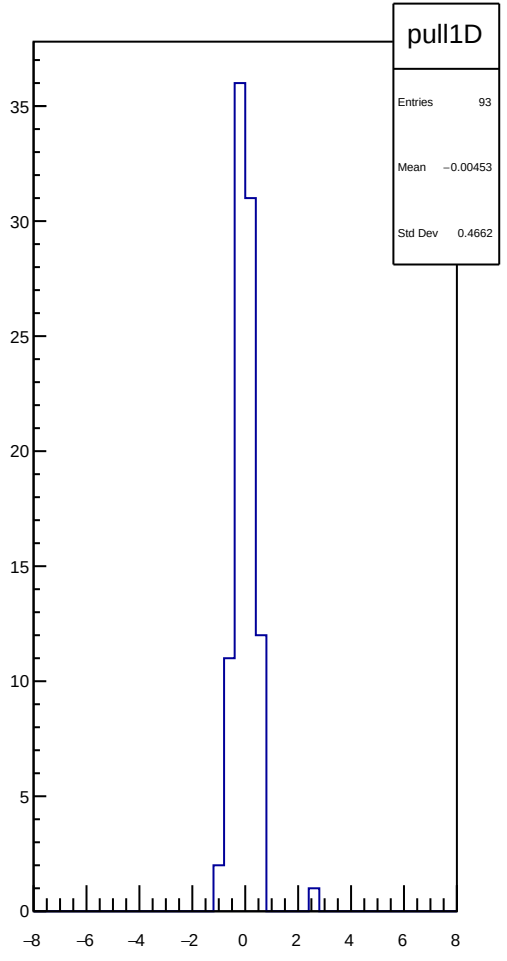

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 19.41 / 92
p0 −158.3 ± 221.4
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 47.75
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.005623
Std Dev 0.4568
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

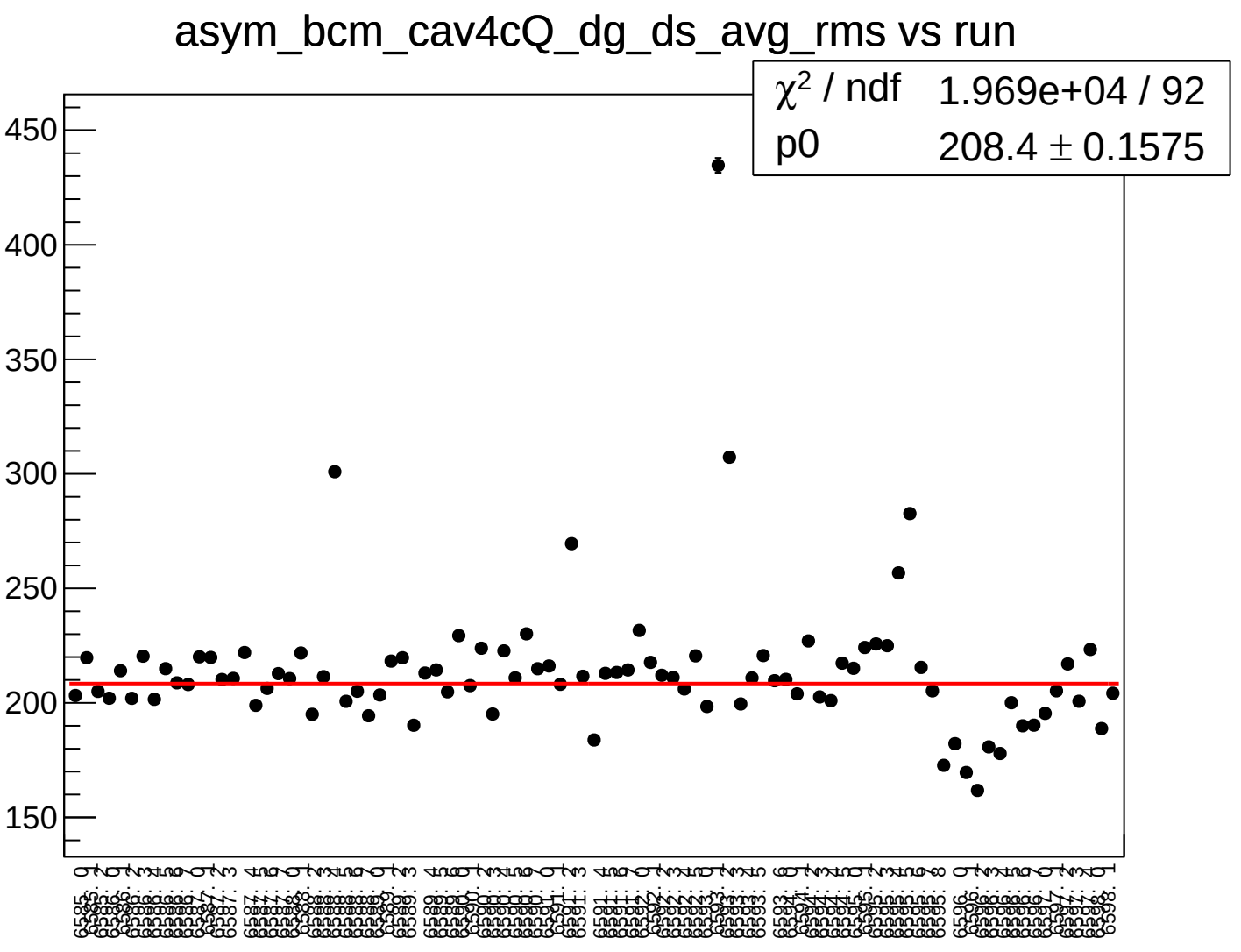

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.989e+04 / 92
p0 207.2 ± 0.1566
450
400
350
300
250
200
150

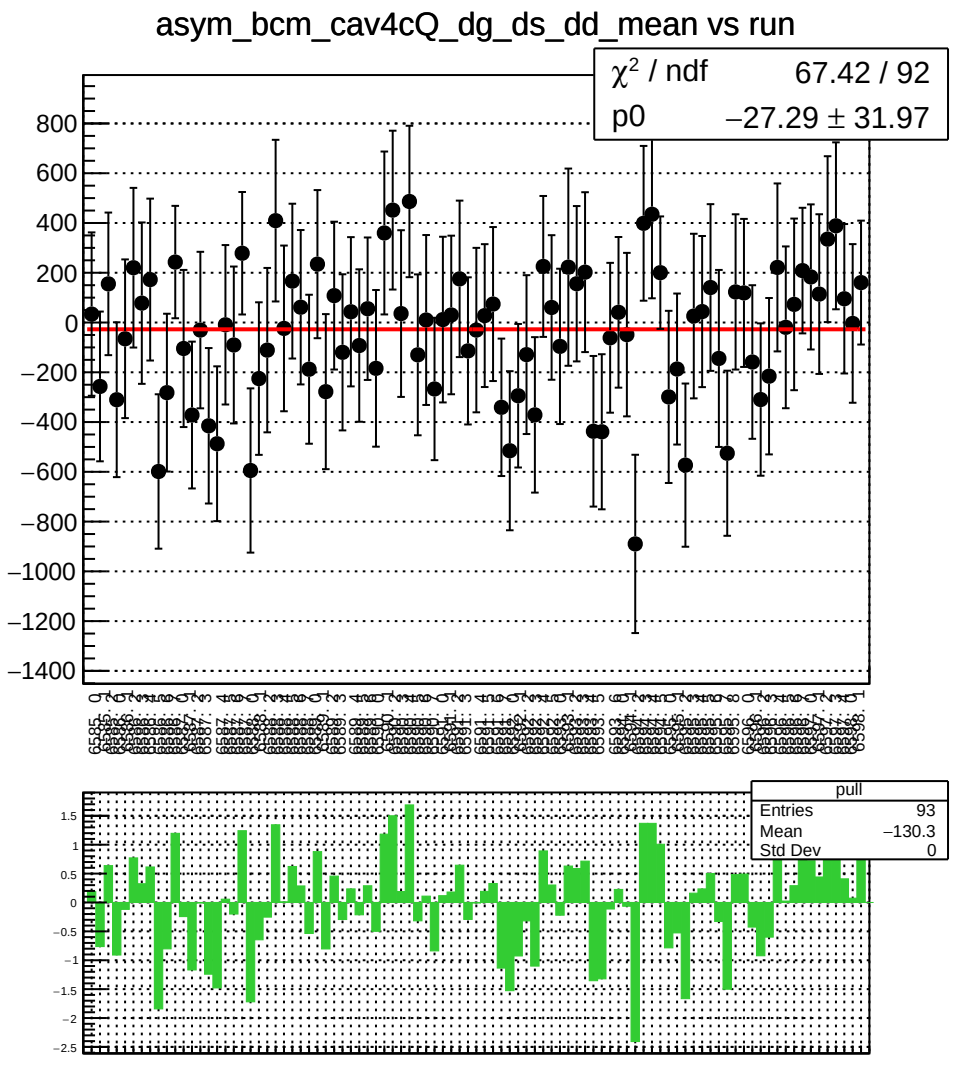

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 74.05 / 92
p0 −23.74 ± 29
pull
Entries 93
Mean −1867
Std Dev 0
pull1D
Entries 93
Mean −0.002792
Std Dev 0.8923

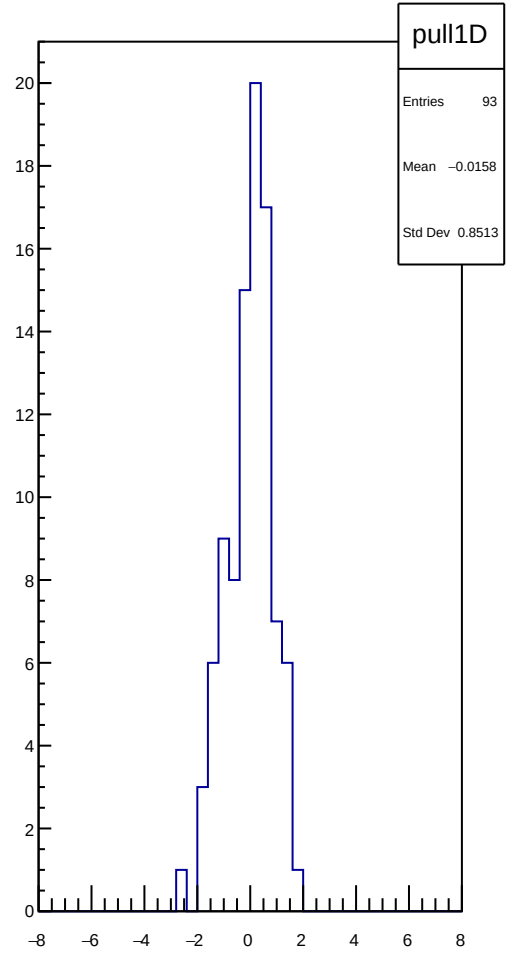

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 6323 / 92
p0 27.24 ± 0.02051
36
34
32
30
28
26
24

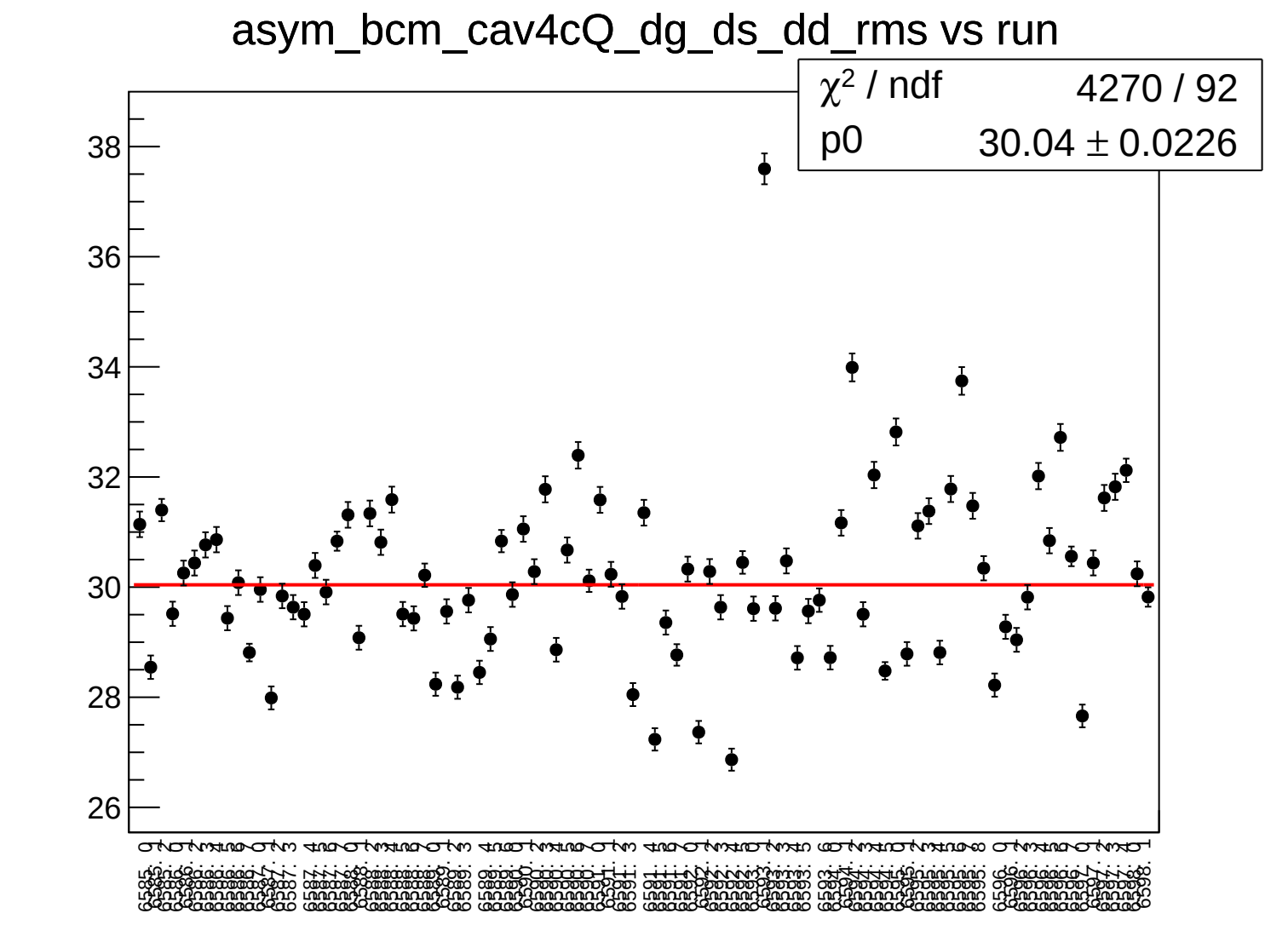

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 20.22 / 92
p0 −150.9 ± 222.8
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −15.98
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

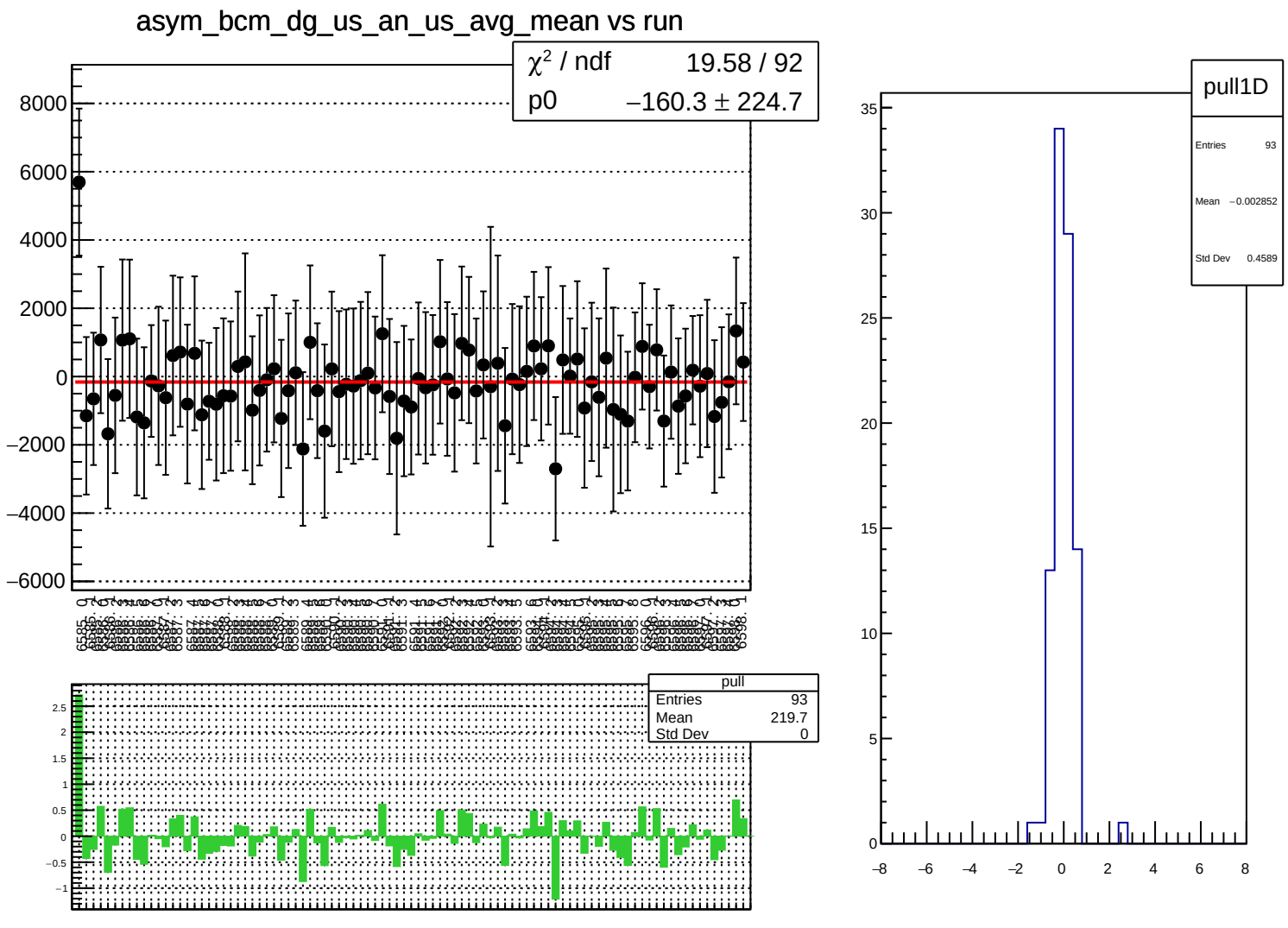

pull1D
Entries 93
Mean −0.00453
Std Dev 0.4662
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

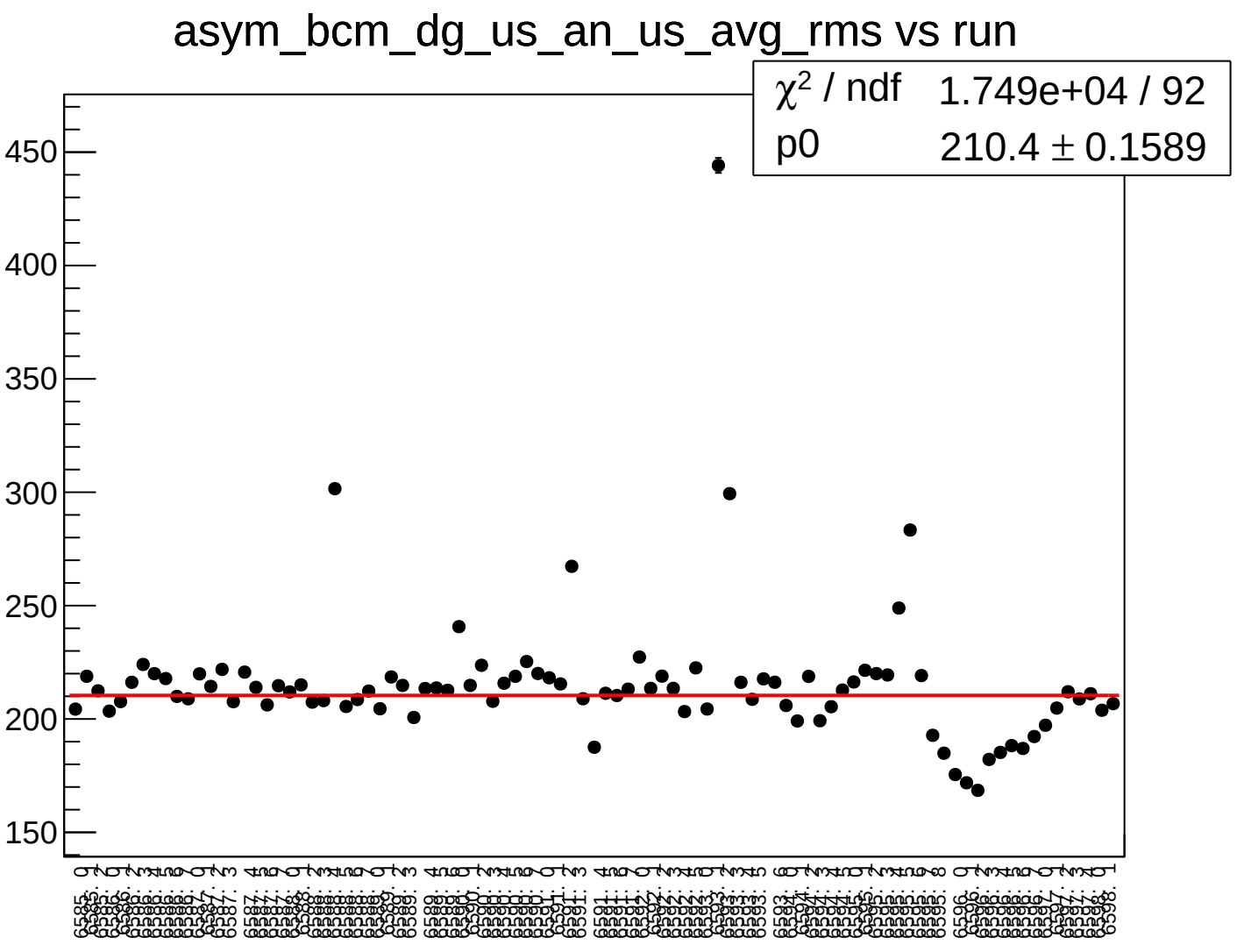

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.969e+04 / 92
p0 208.4 ± 0.1575
450
400
350
300
250
200
150

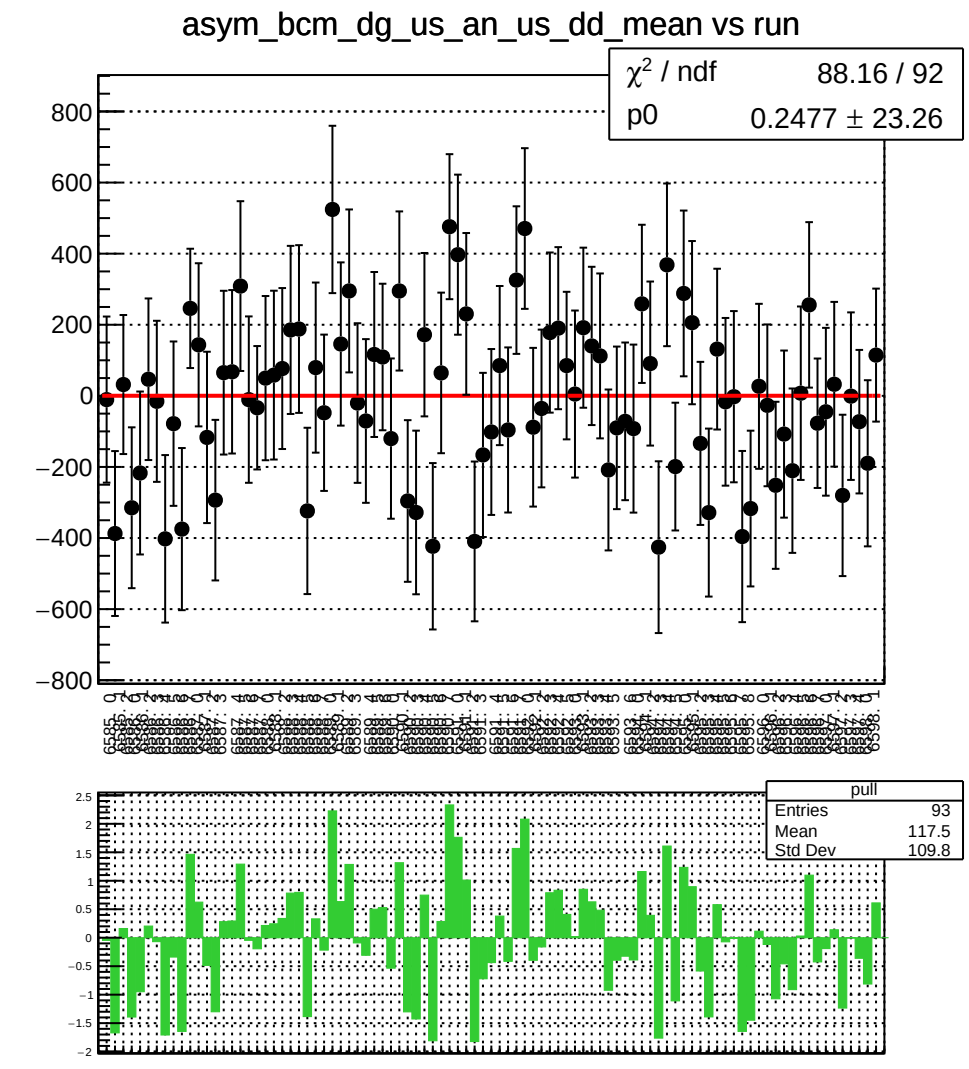

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 67.42 / 92
p0 −27.29 ± 31.97
pull
Entries 93
Mean −130.3
Std Dev 0

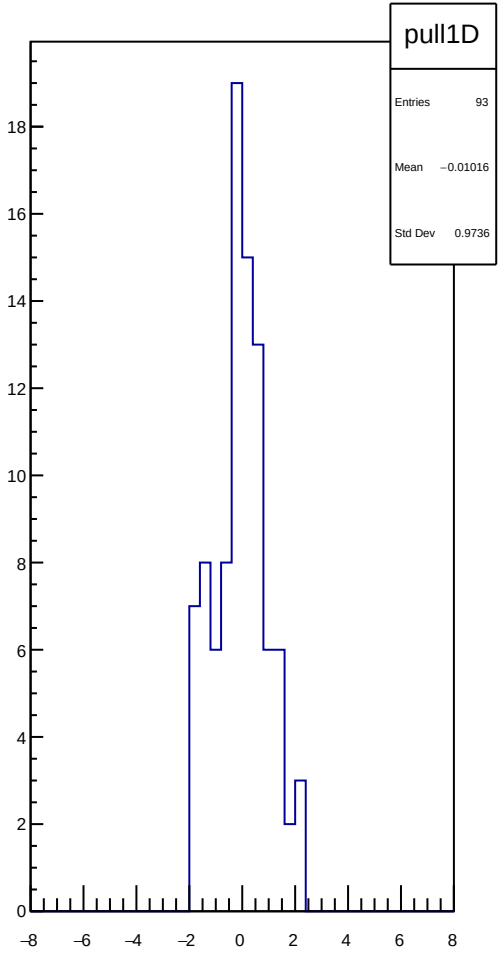

pull1D
Entries 93
Mean −0.0158
Std Dev 0.8513

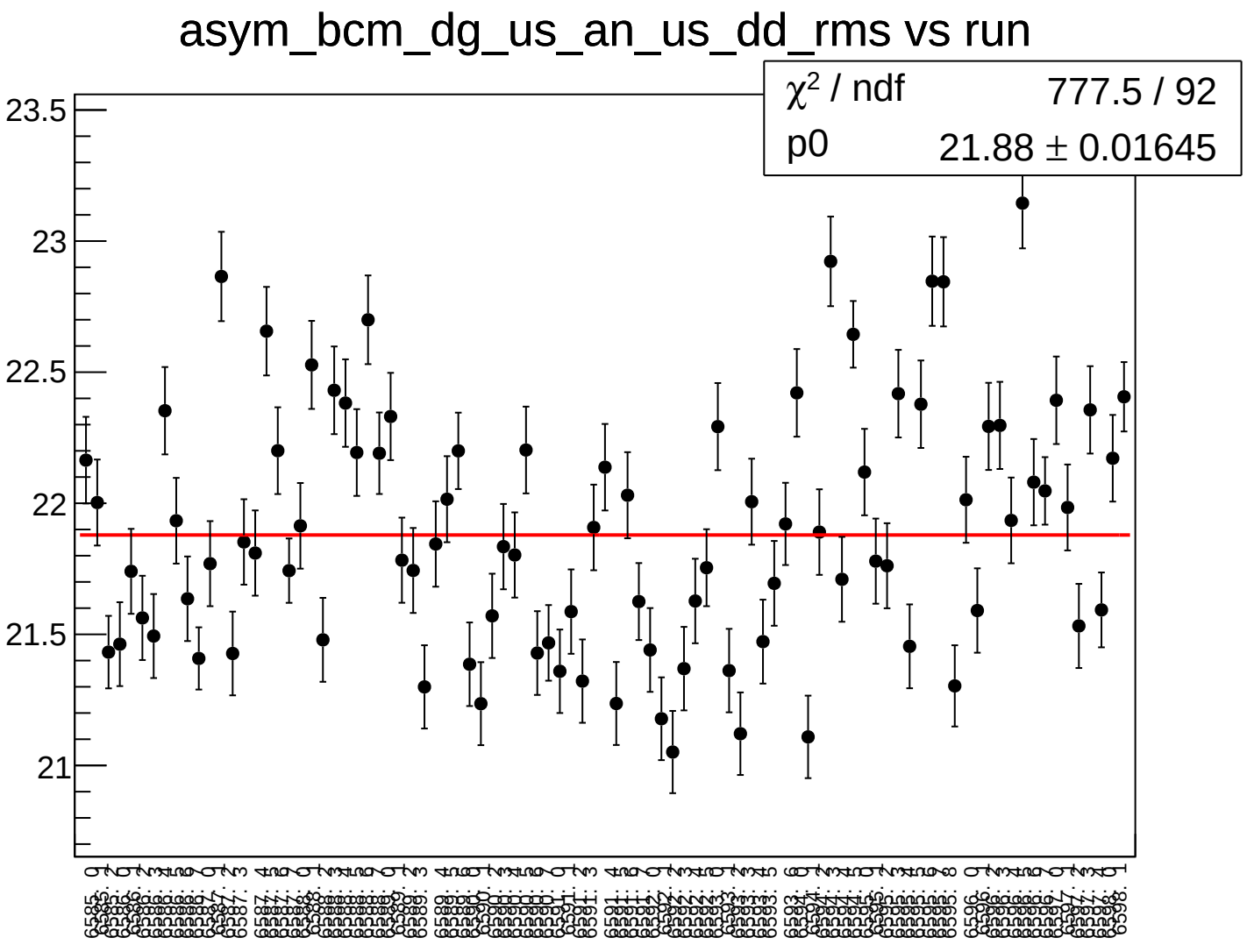

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 4270 / 92
p0 30.04 ± 0.0226
38
36
34
32
30
28
26

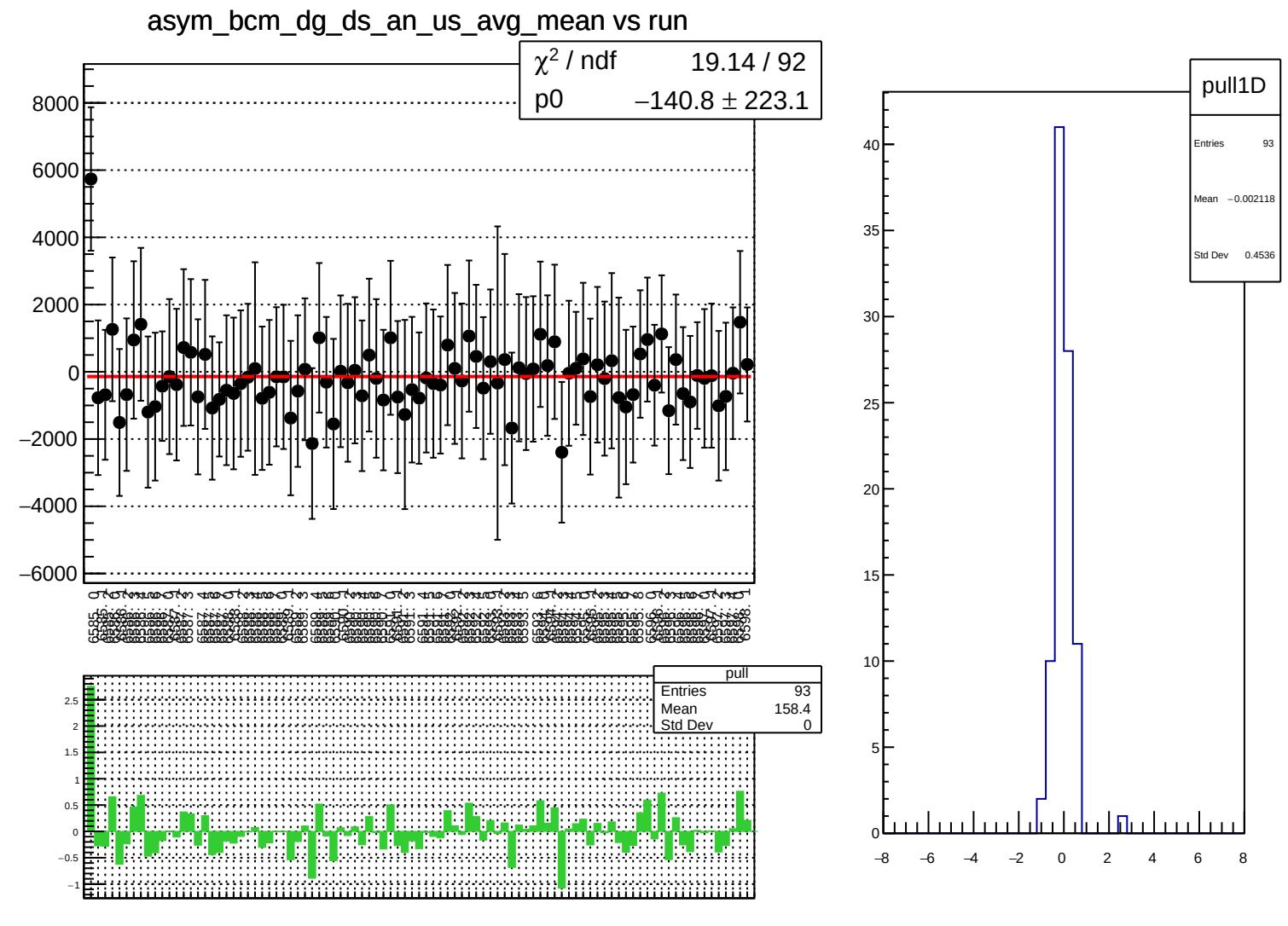

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 19.58 / 92
p0 −160.3 ± 224.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 219.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.002852
Std Dev 0.4589
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

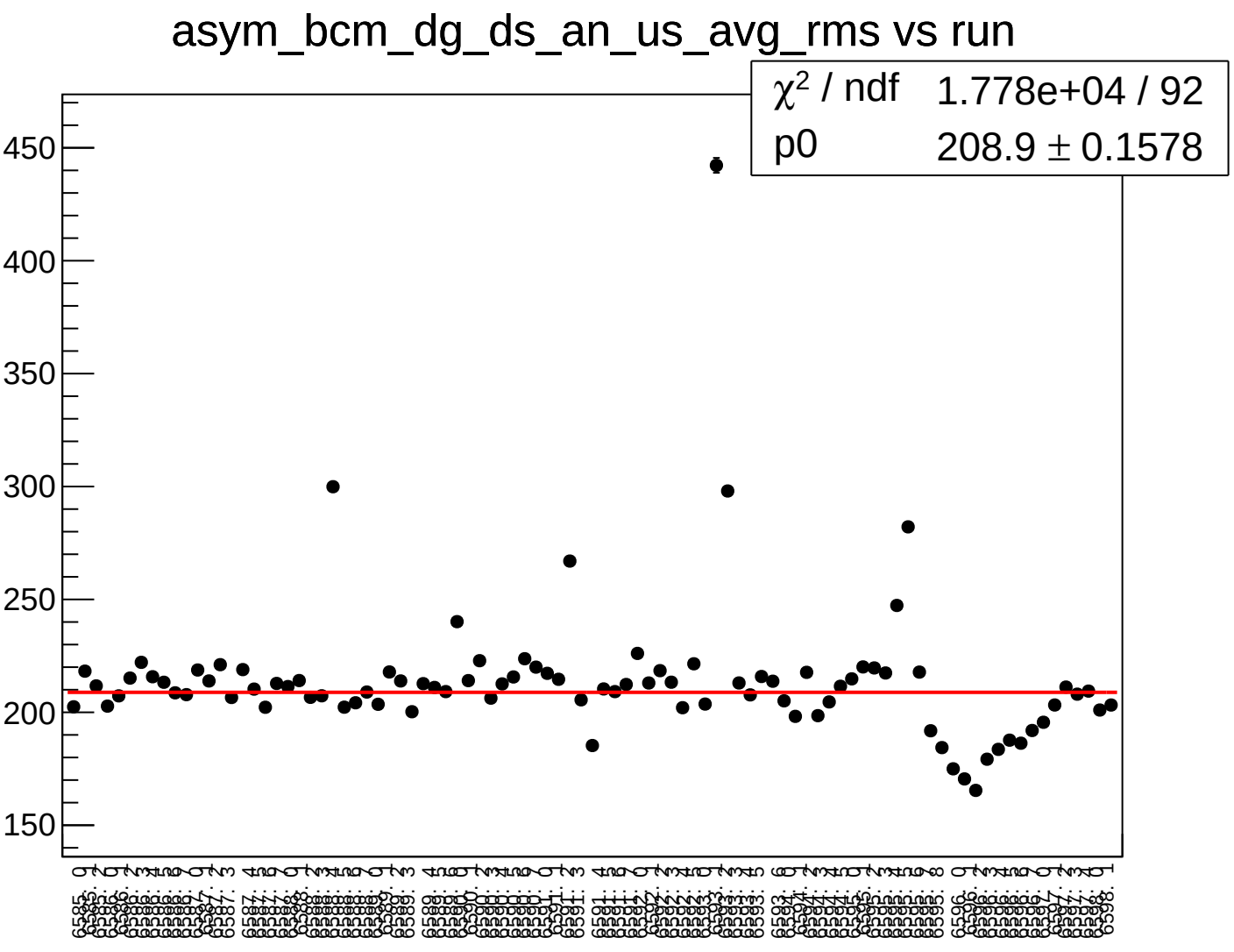

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.749e+04 / 92
p0 210.4 ± 0.1589
450
400
350
300
250
200
150

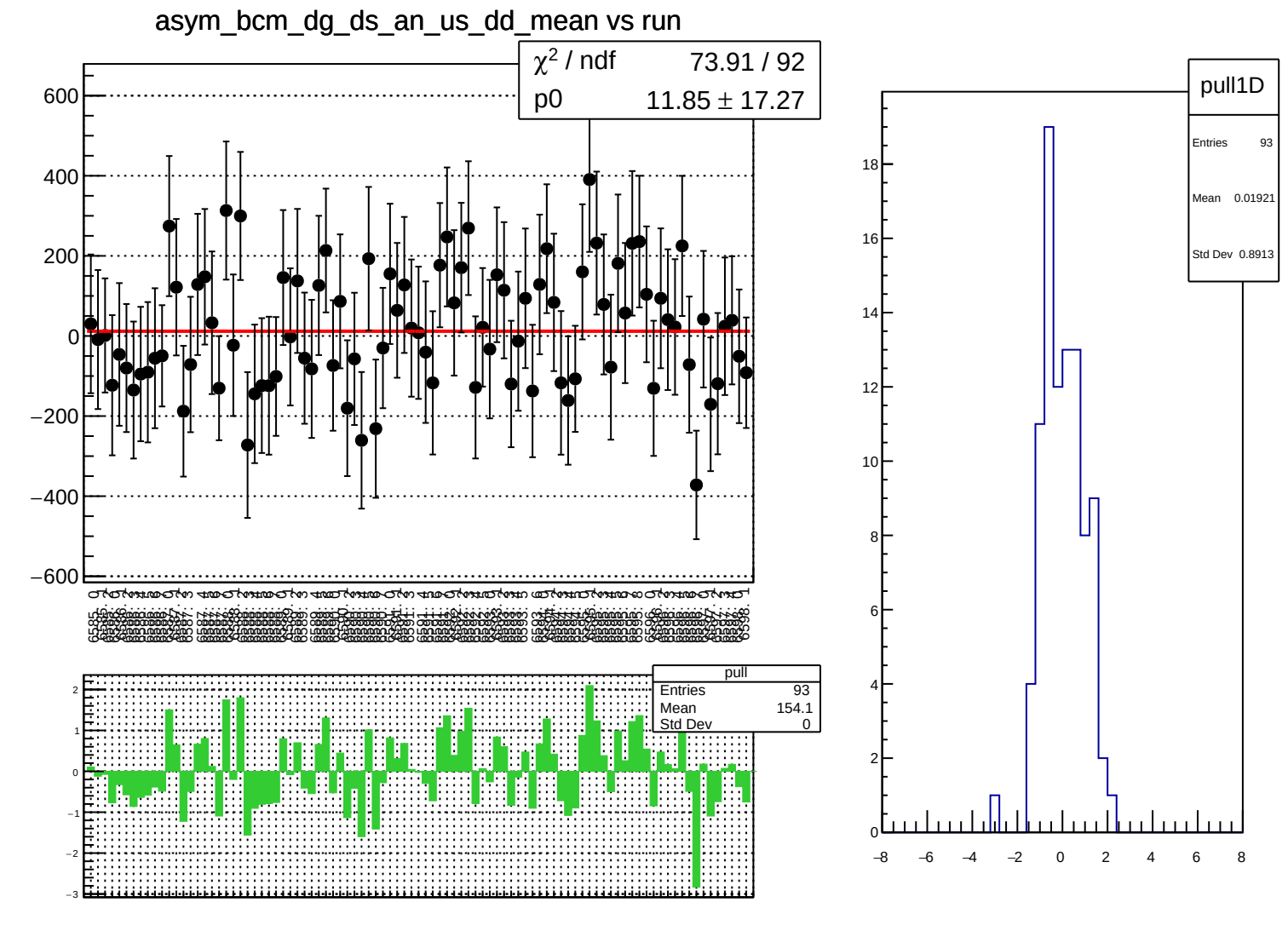

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 88.16 / 92
p0 0.2477 ± 23.26
pull
Entries 93
Mean 117.5
Std Dev 109.8

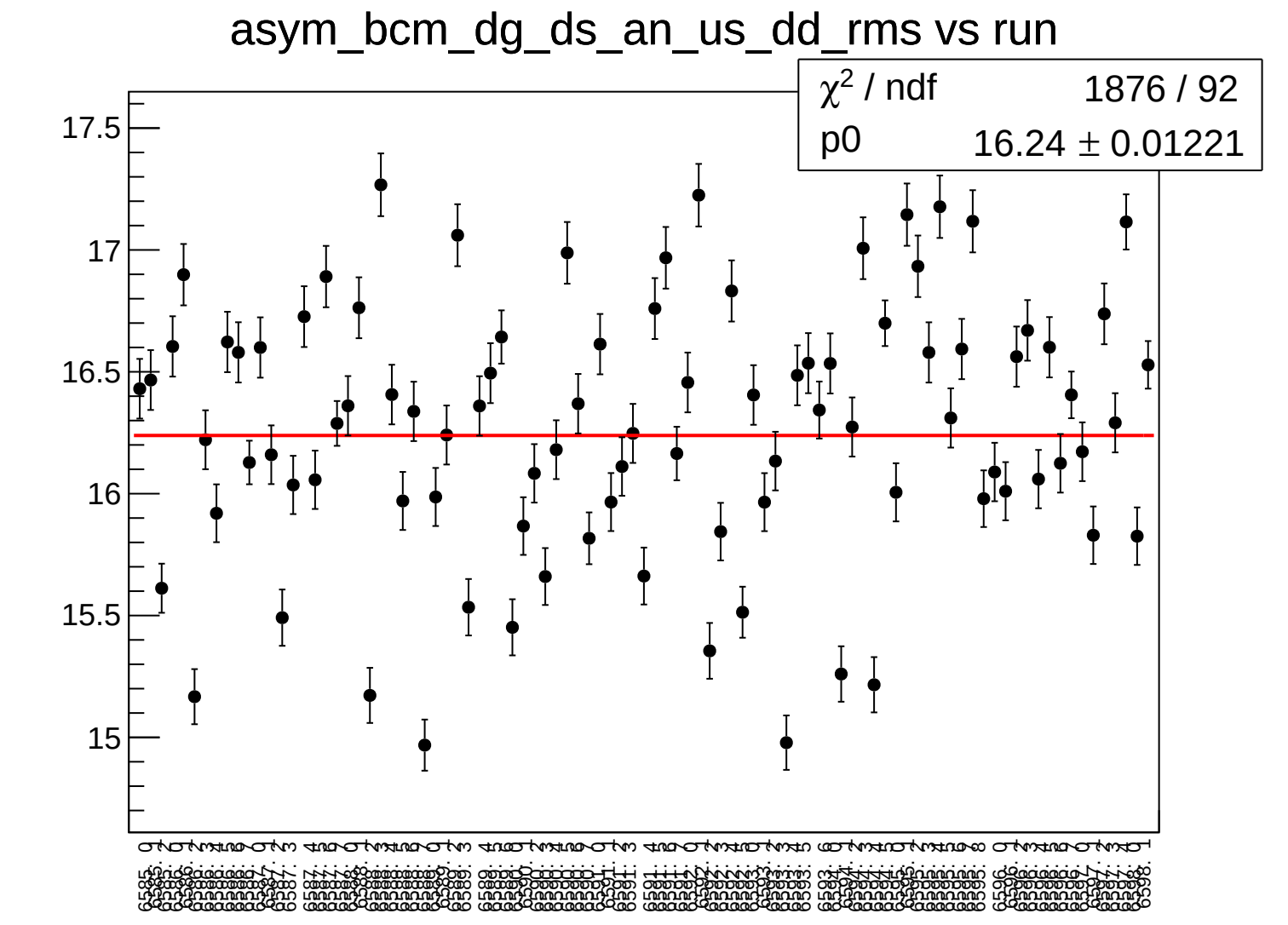

pull1D
Entries 93
Mean −0.01016
Std Dev 0.9736

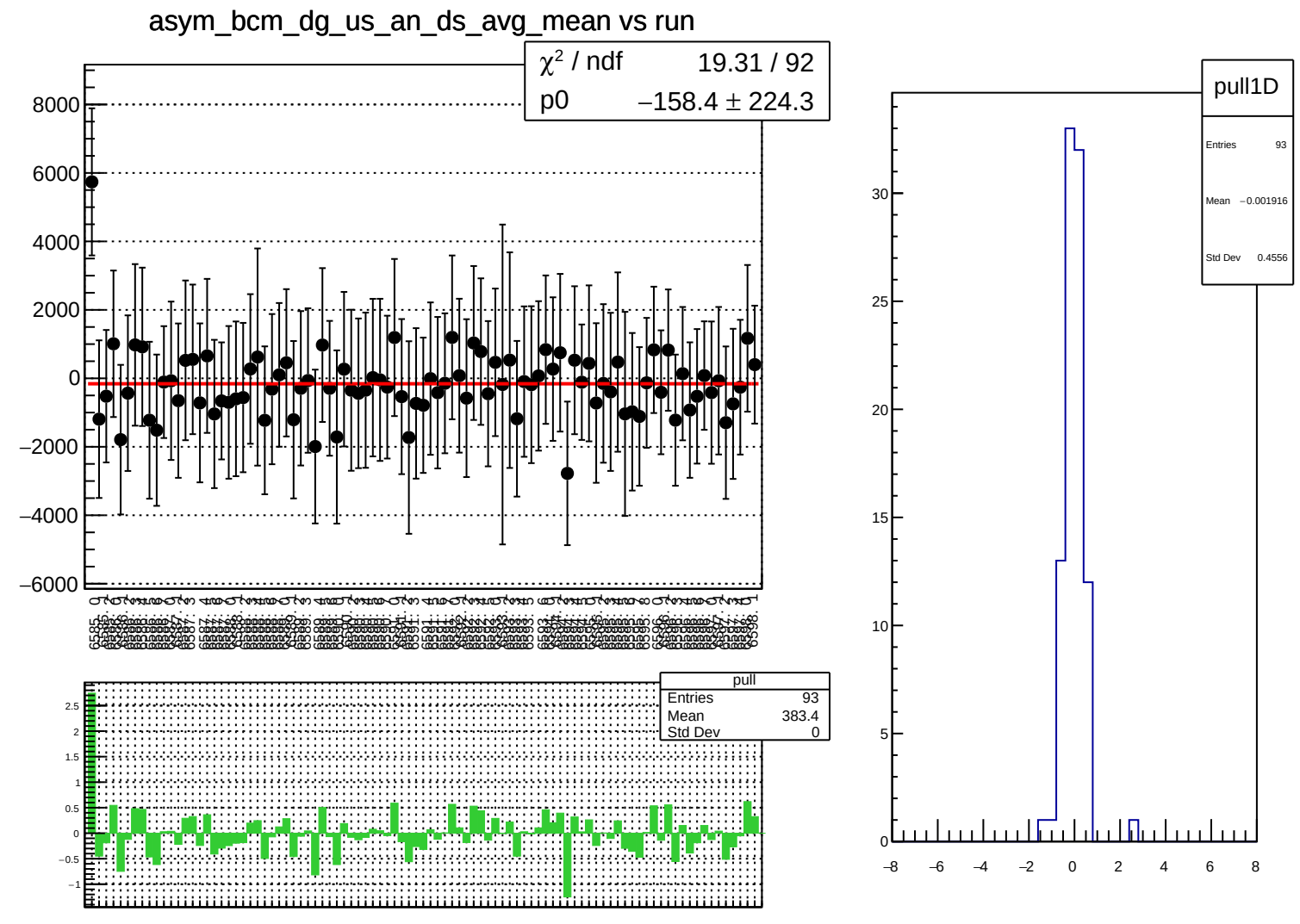

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 777.5 / 92
p0 21.88 ± 0.01645
23.5
23
22.5
22
21.5
21

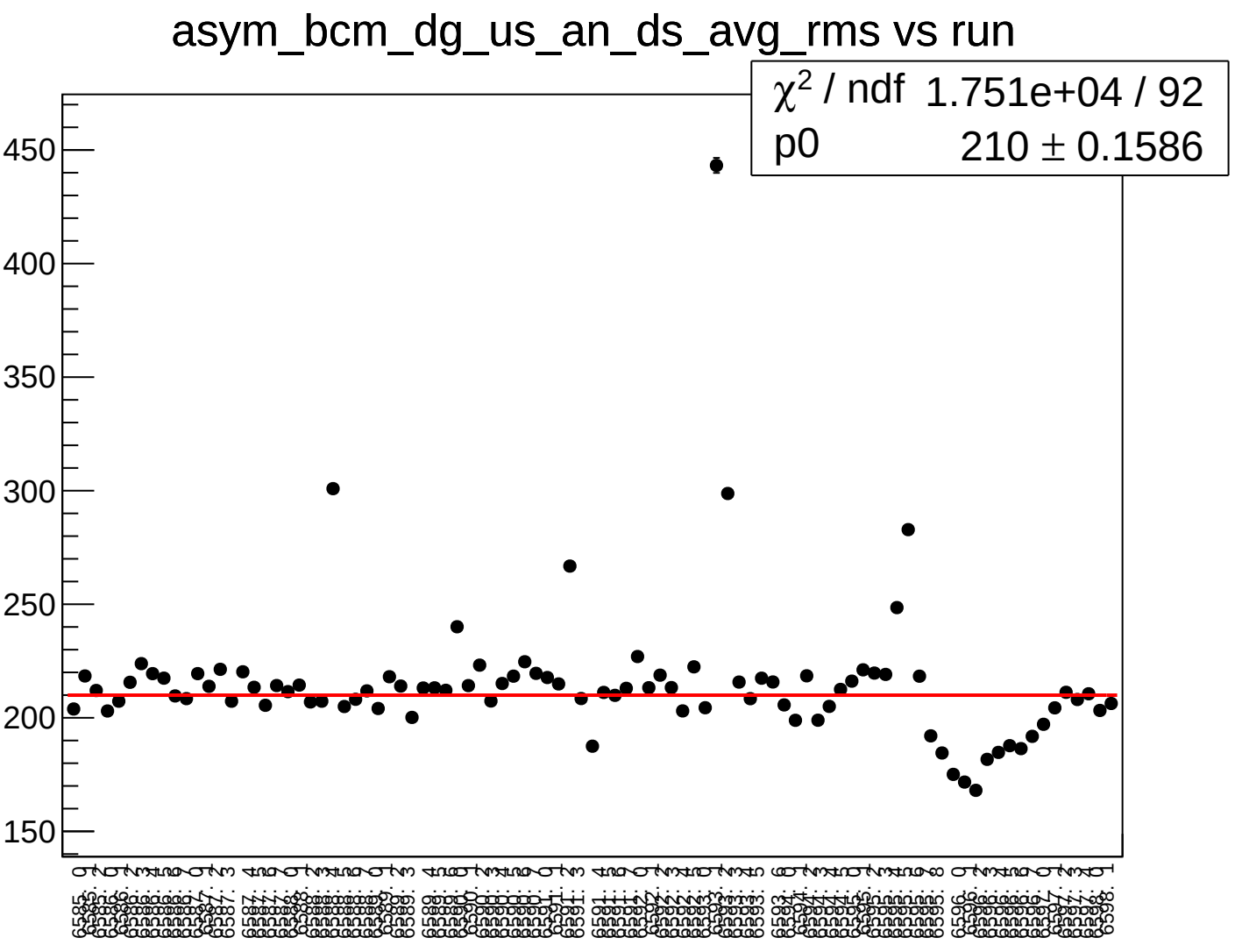

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 19.14 / 92
p0 −140.8 ± 223.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 158.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.002118
Std Dev 0.4536
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

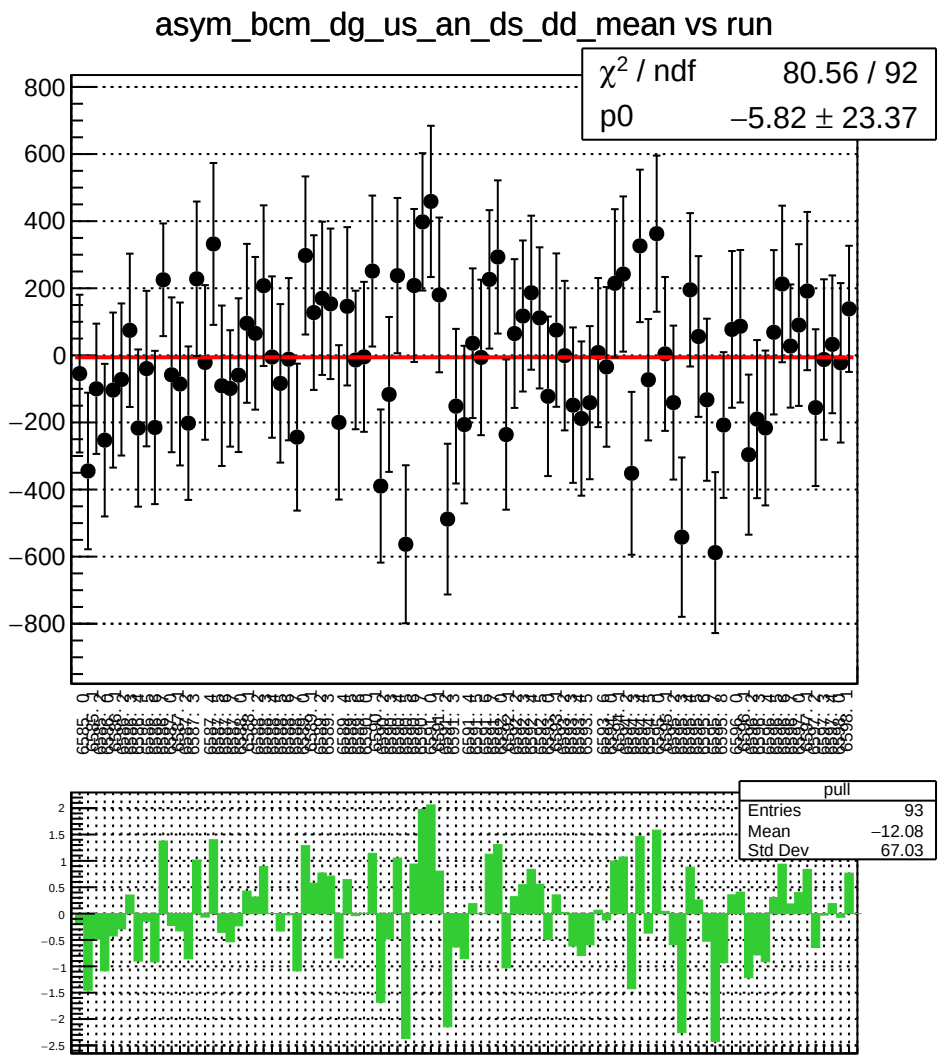

asym_bcm_dg_ds_an_us_avg_rms vs run
χ^2 / ndf 1.778e+04 / 92
p0 208.9 ± 0.1578
450
400
350
300
250
200
150

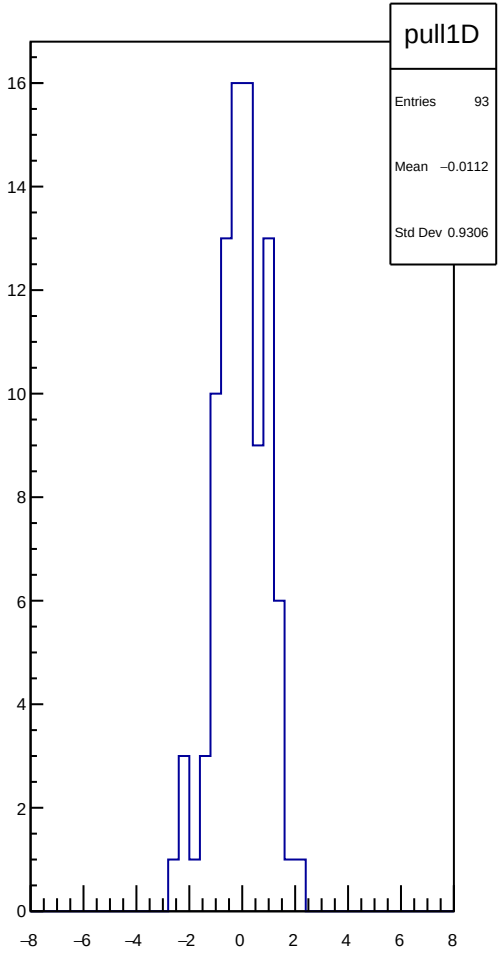

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 73.91 / 92
p0 11.85 ± 17.27
pull
Entries 93
Mean 154.1
Std Dev 0
pull1D
Entries 93
Mean 0.01921
Std Dev 0.8913

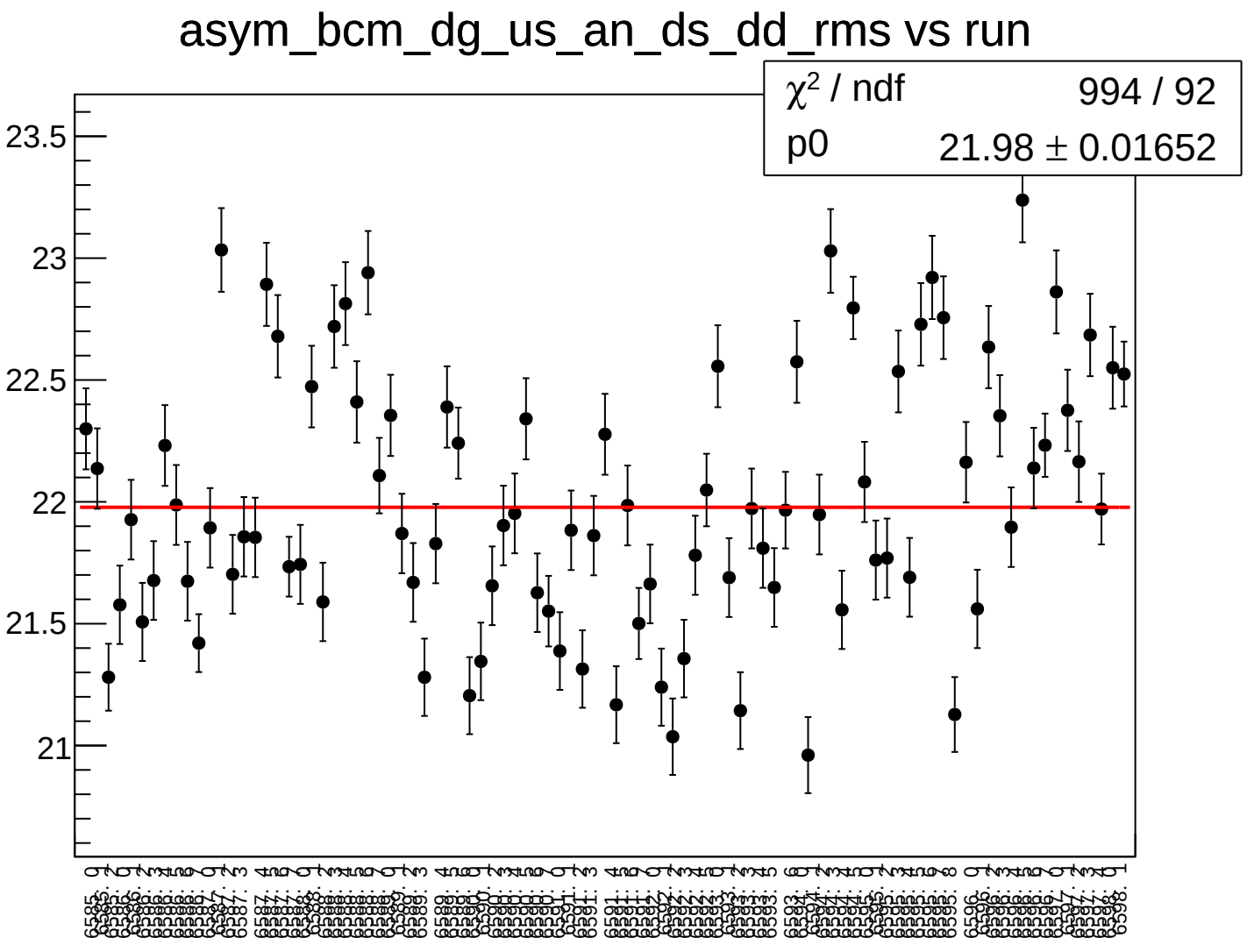

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 1876 / 92
p0 16.24 ± 0.01221
17.5
17
16.5
16
15.5
15

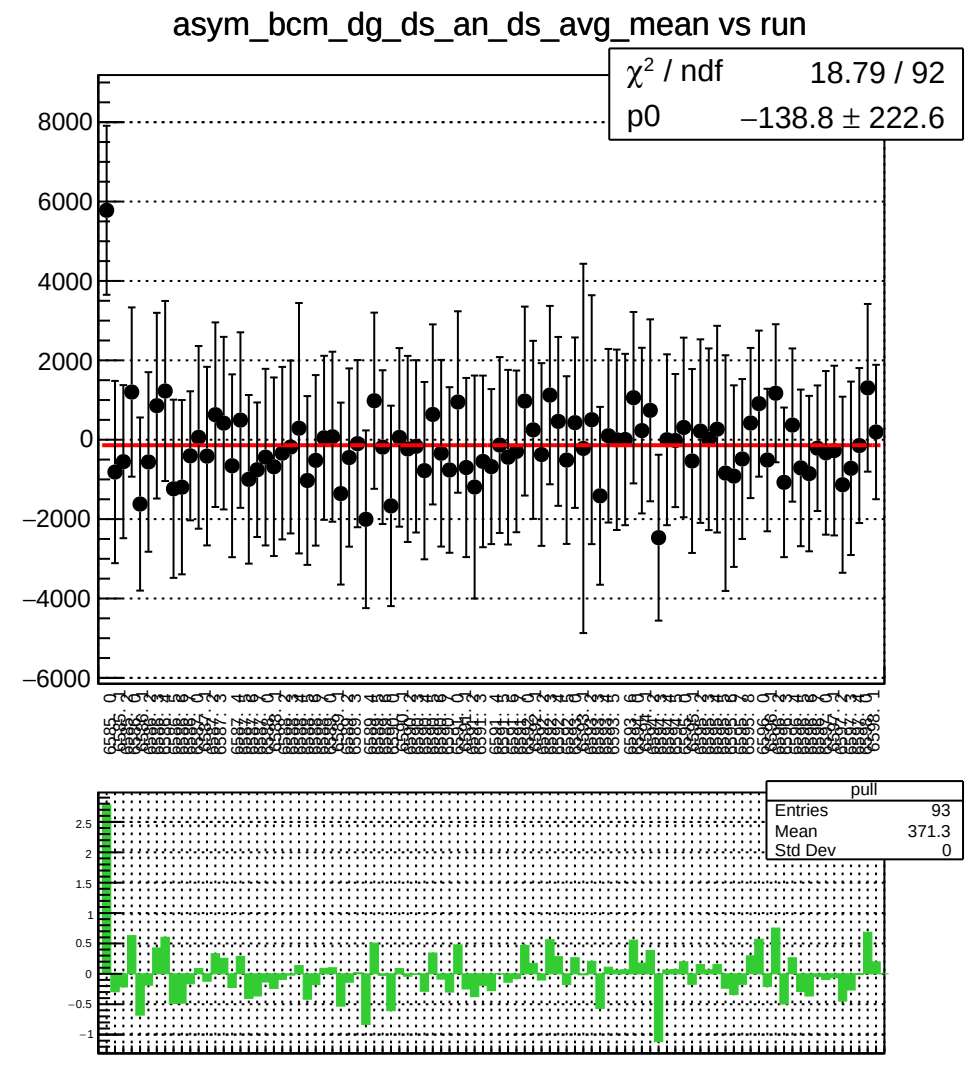

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 19.31 / 92
p0 −158.4 ± 224.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 383.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.001916
Std Dev 0.4556
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

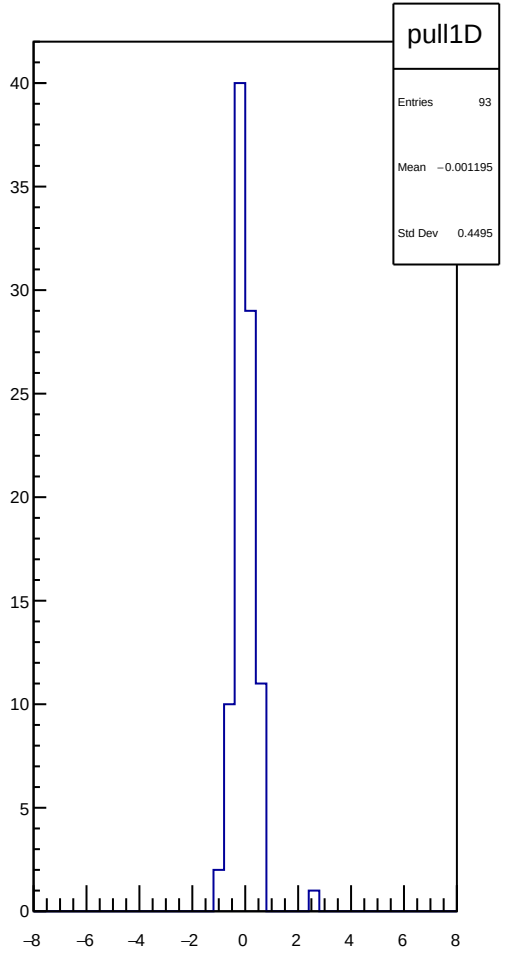

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.751e+04 / 92
p0 210 ± 0.1586
450
400
350
300
250
200
150

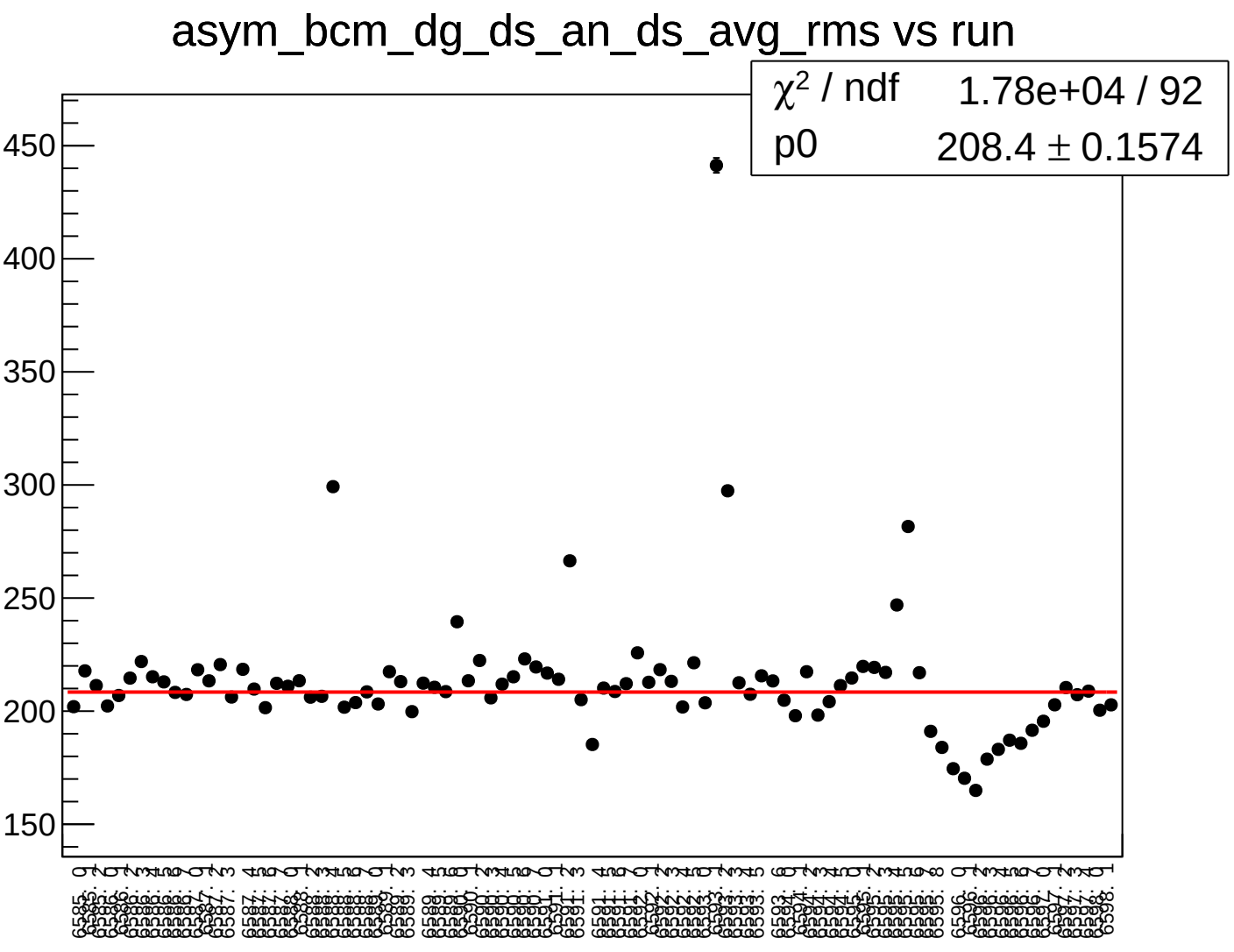

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 80.56 / 92
p0 −5.82 ± 23.37
pull
Entries 93
Mean −12.08
Std Dev 67.03

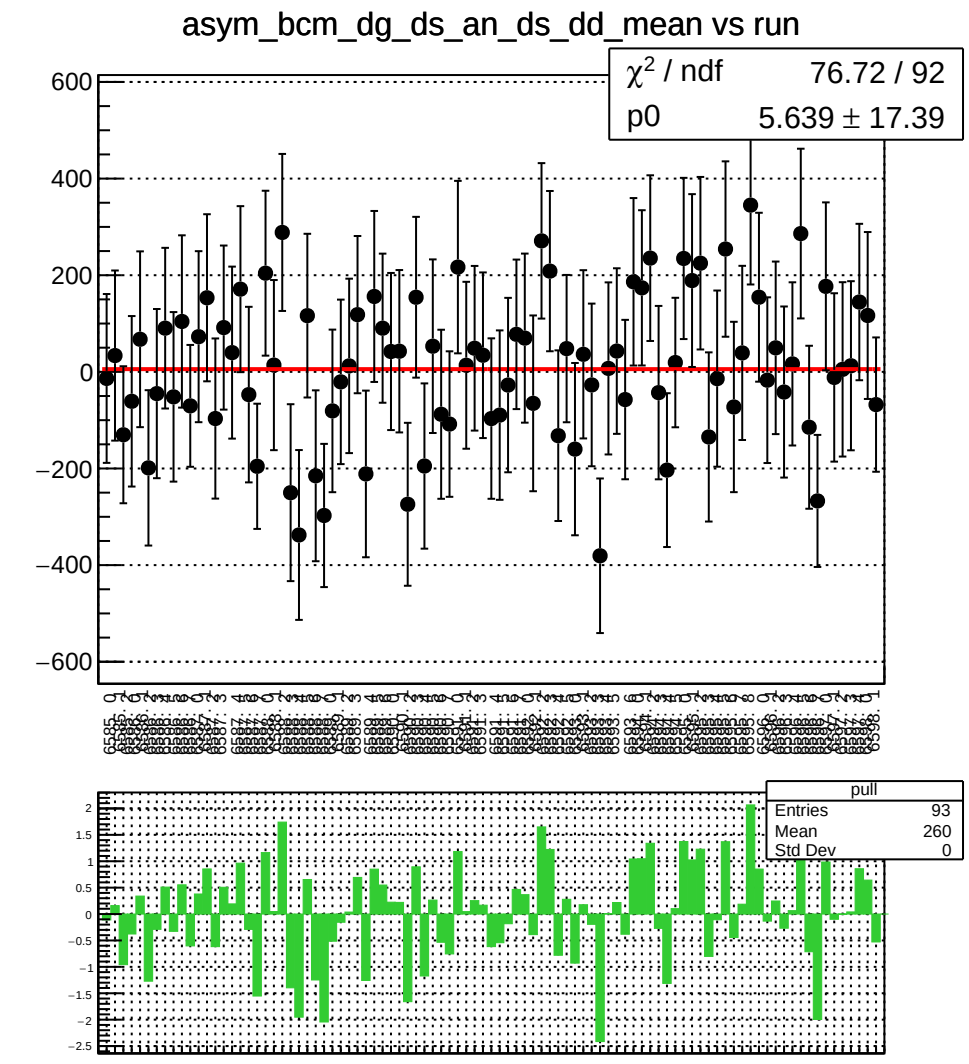

pull1D
Entries 93
Mean −0.0112
Std Dev 0.9306

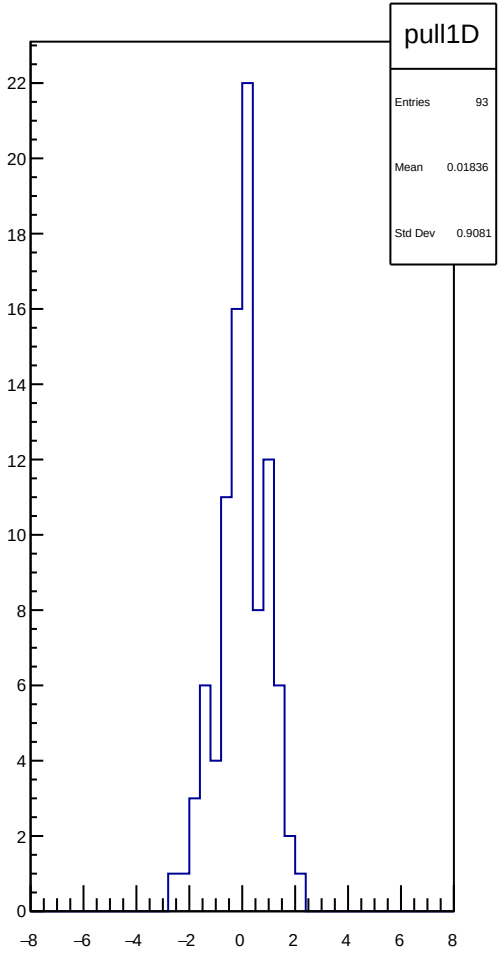

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 994 / 92
p0 21.98 ± 0.01652
23.5
23
22.5
22
21.5
21

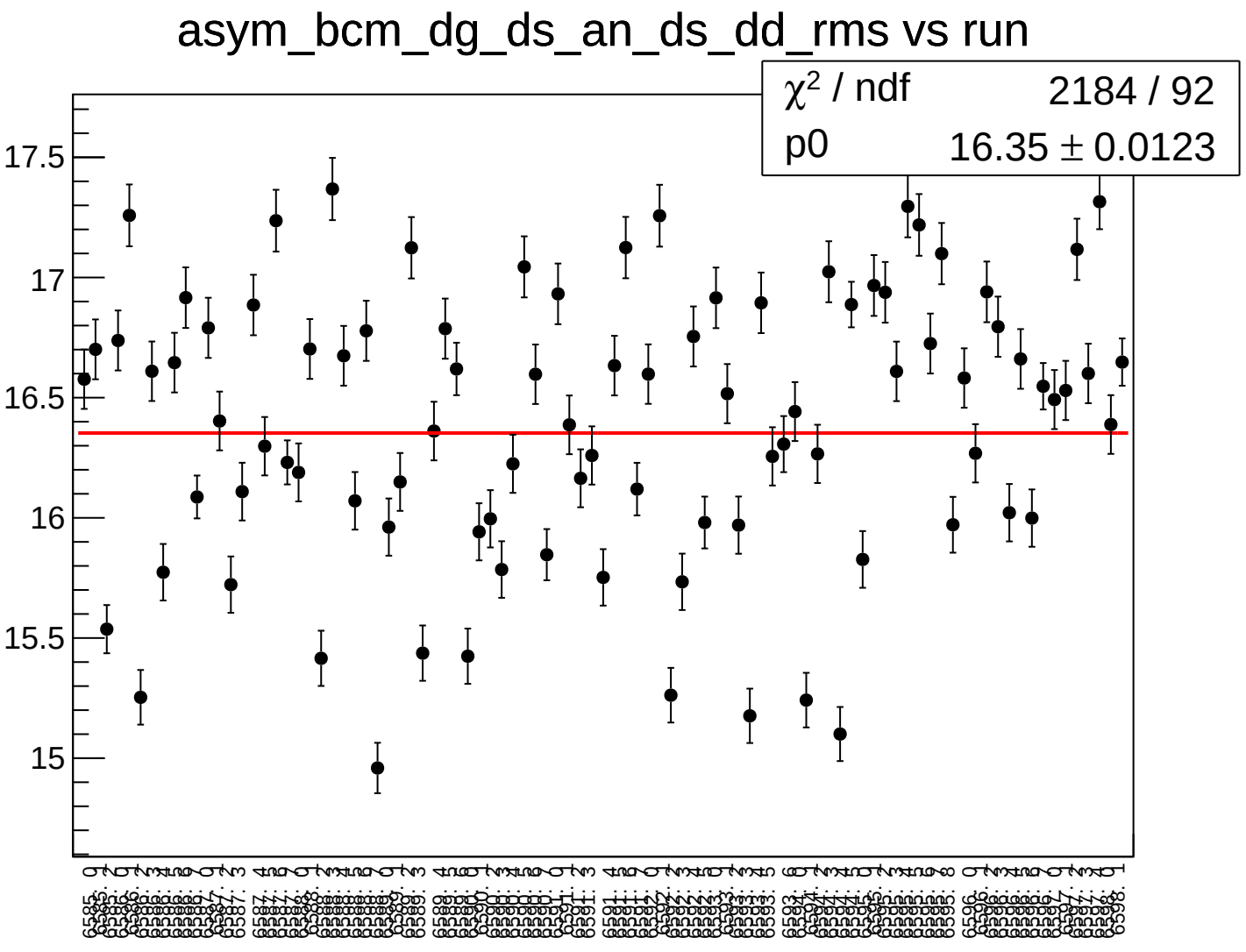

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 18.79 / 92
p0 −138.8 ± 222.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 371.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

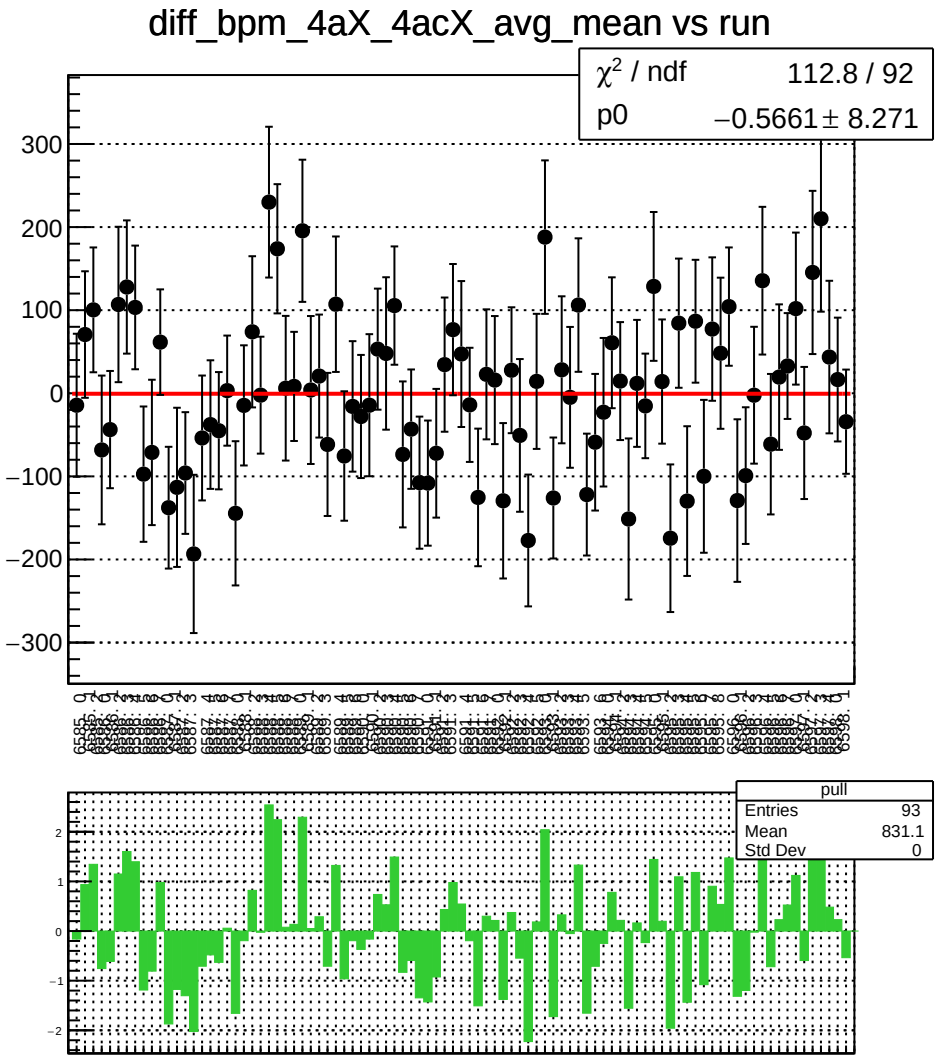

pull1D
Entries 93
Mean −0.001195
Std Dev 0.4495
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

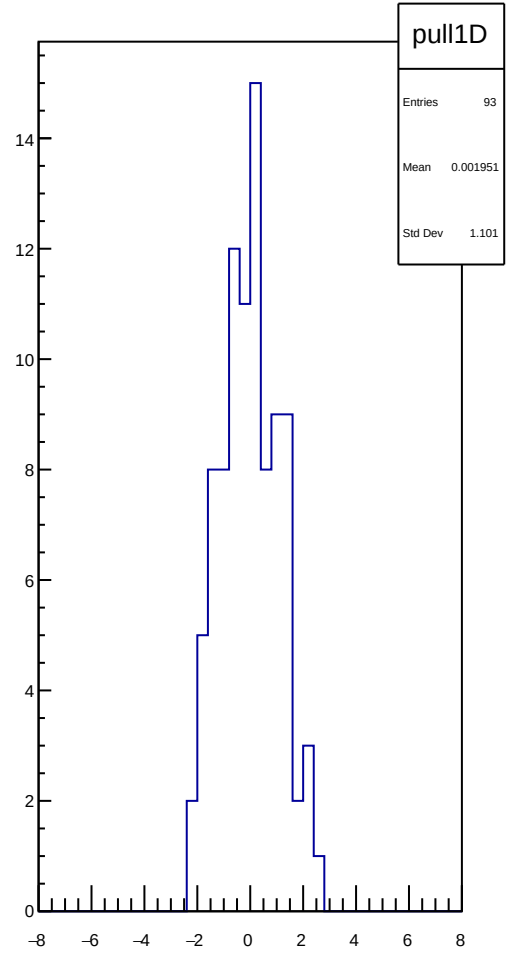

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.78e+04 / 92
p0 208.4 ± 0.1574
450
400
350
300
250
200
150

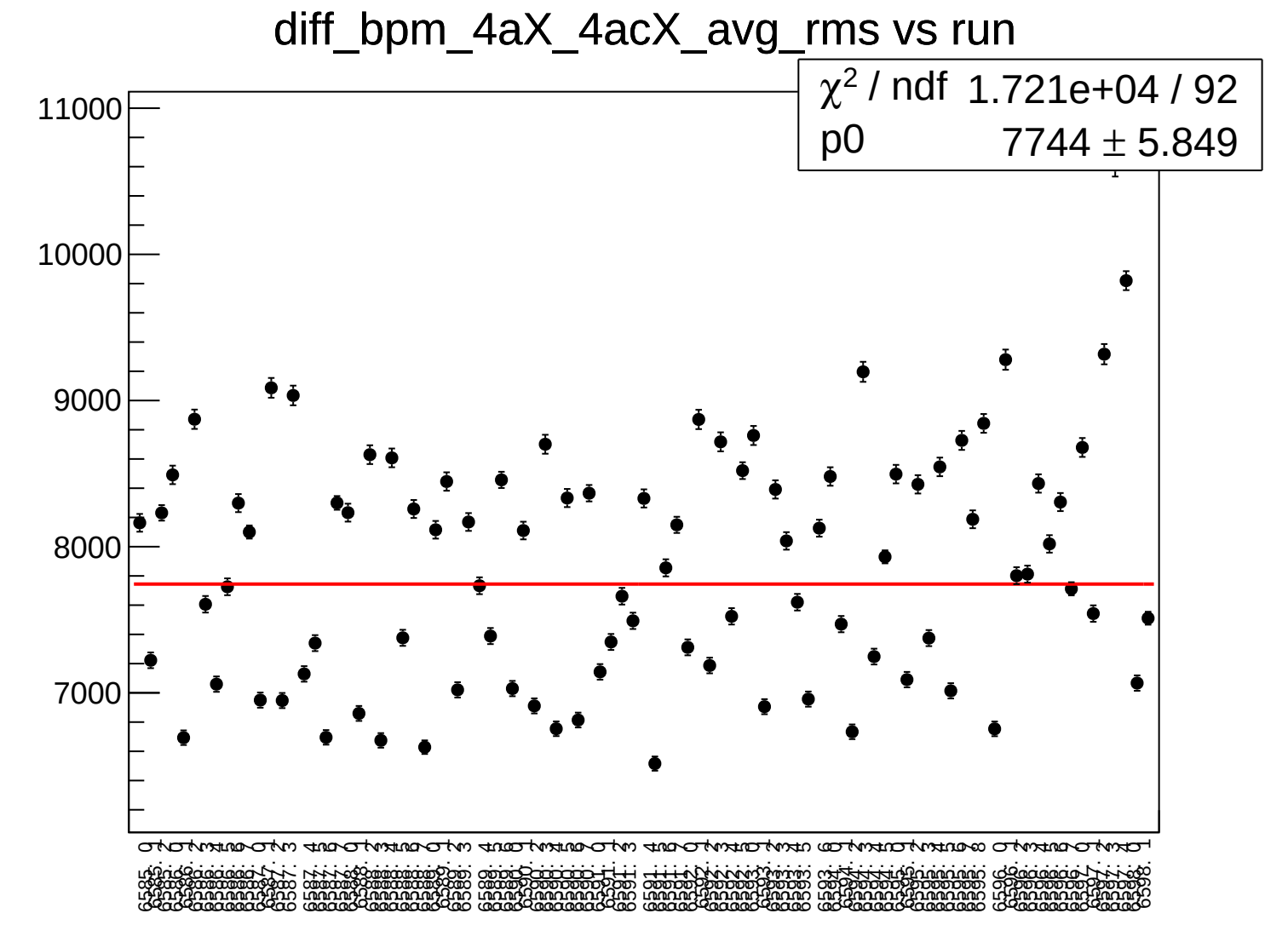

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 76.72 / 92
p0 5.639 ± 17.39
pull
Entries 93
Mean 260
Std Dev 0

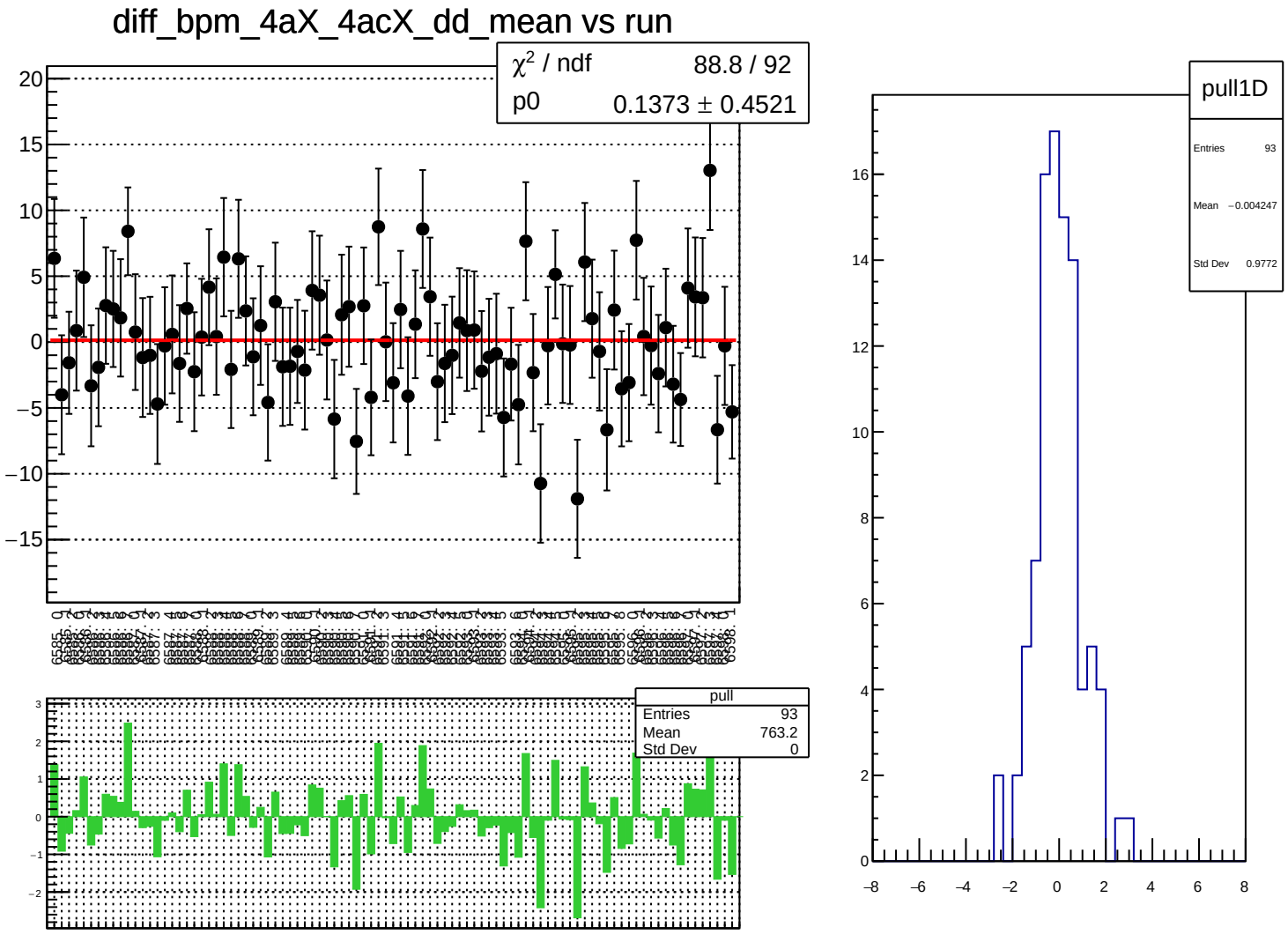

pull1D
Entries 93
Mean 0.01836
Std Dev 0.9081

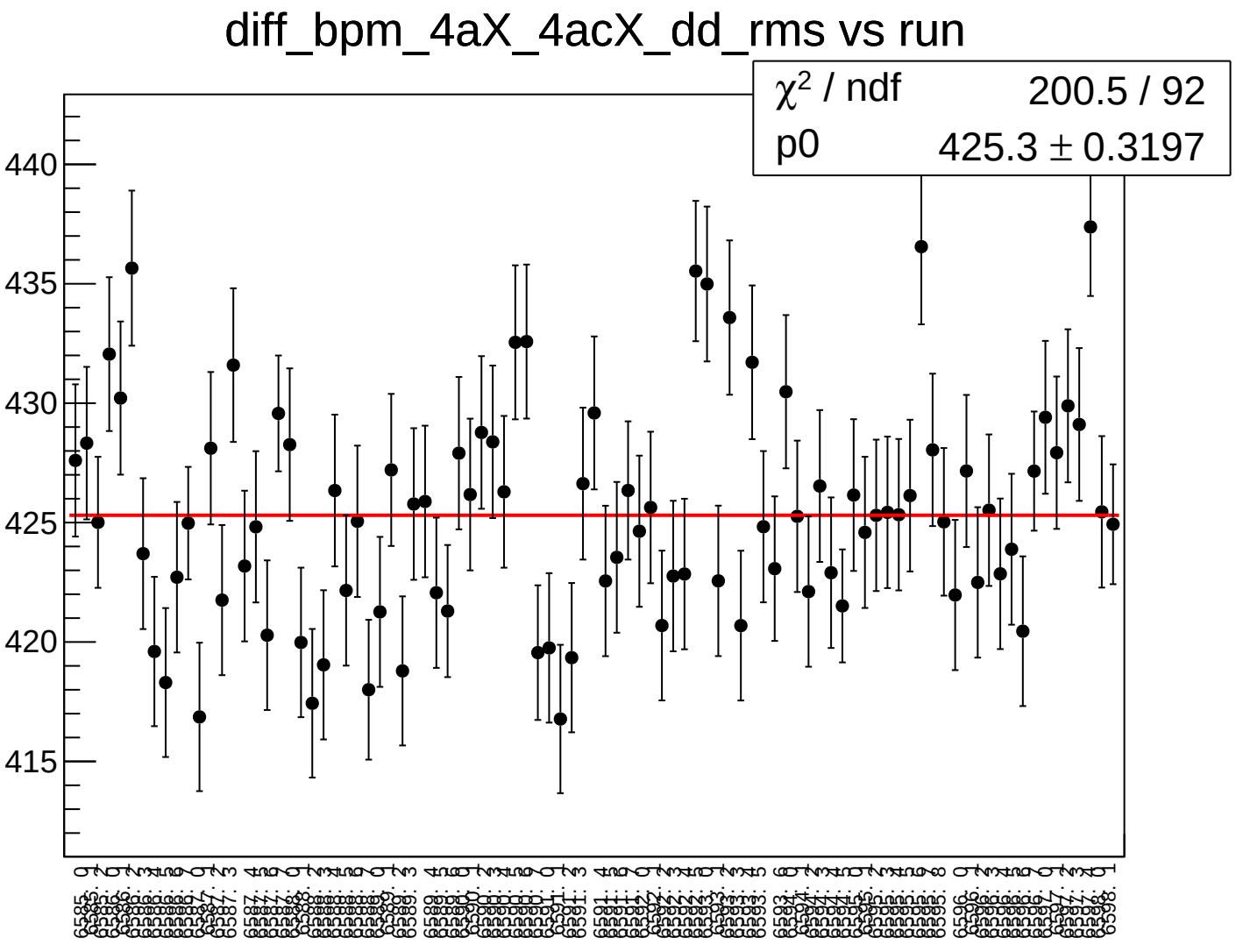

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2184 / 92
p0 16.35 ± 0.0123
17.5
17
16.5
16
15.5
15

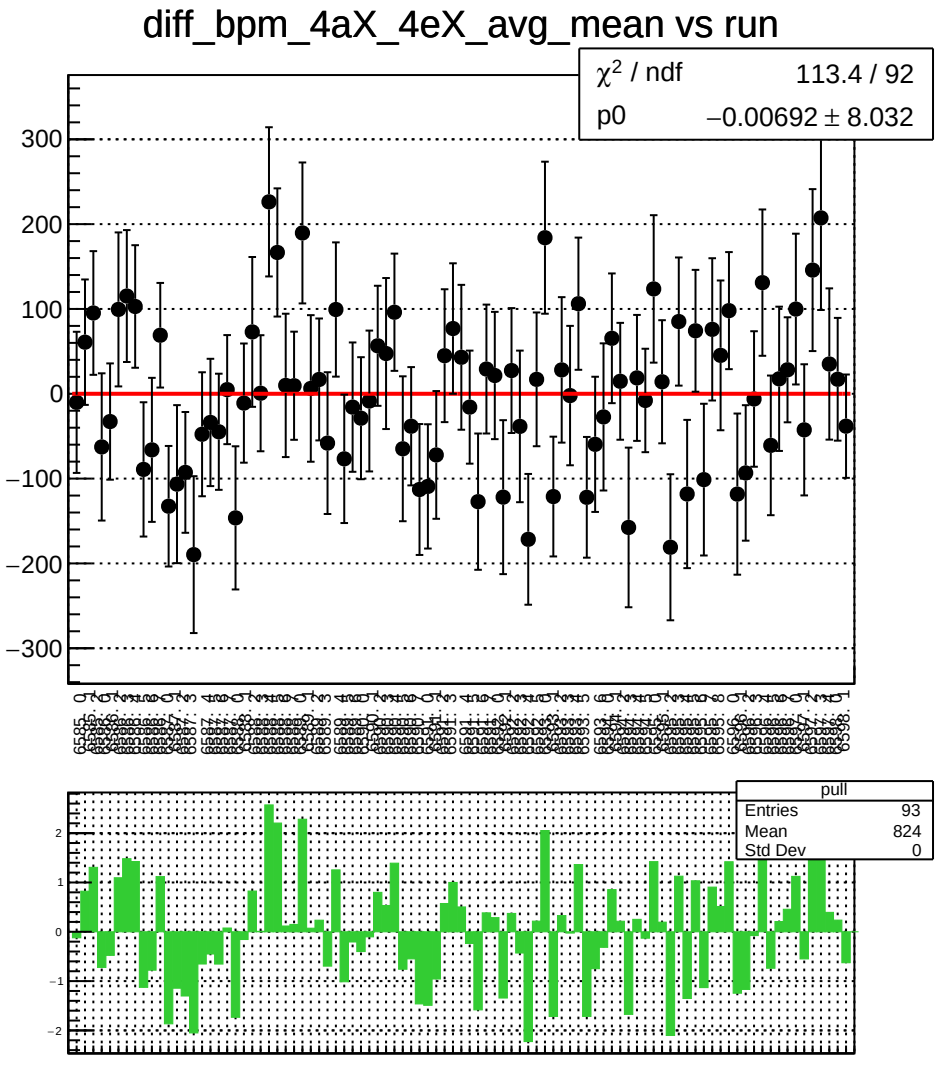

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 112.8 / 92
p0 −0.5661 ± 8.271
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 831.1
Std Dev 0
2
1
0
−1
−2

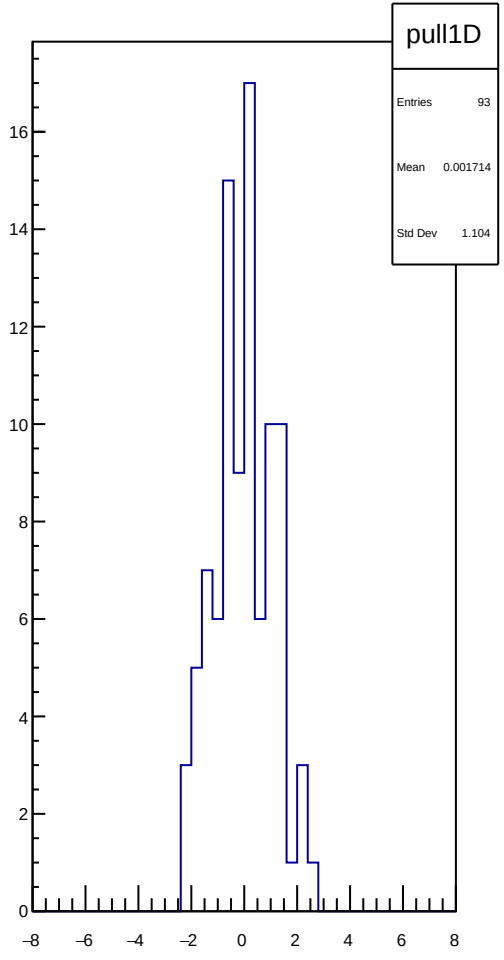

pull1D
Entries 93
Mean 0.001951
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

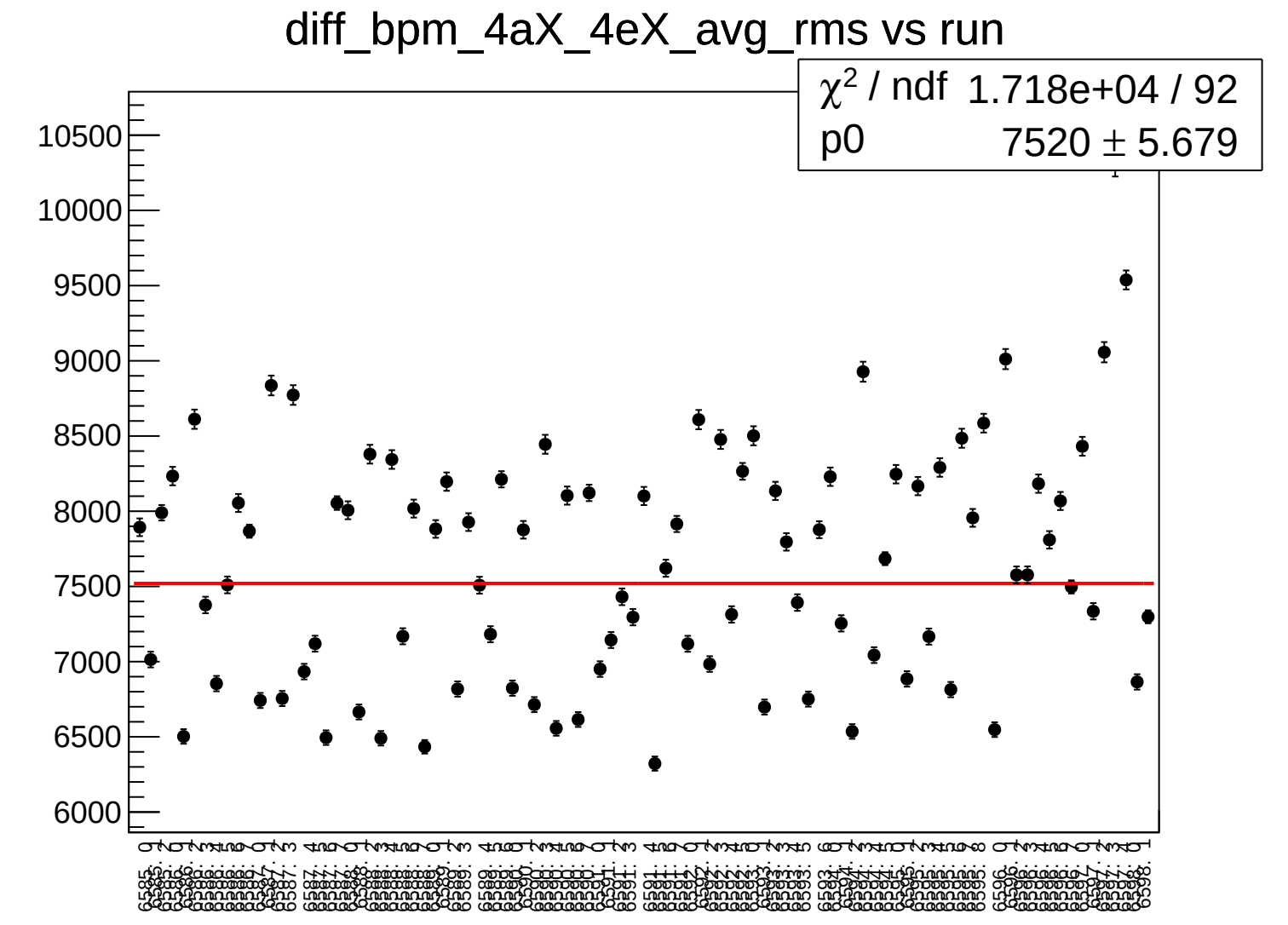

diff_bpm_4aX_4acX_avg_rms vs run
χ^2 / ndf 1.721e+04 / 92
p0 7744 ± 5.849
11000
10000
9000
8000
7000

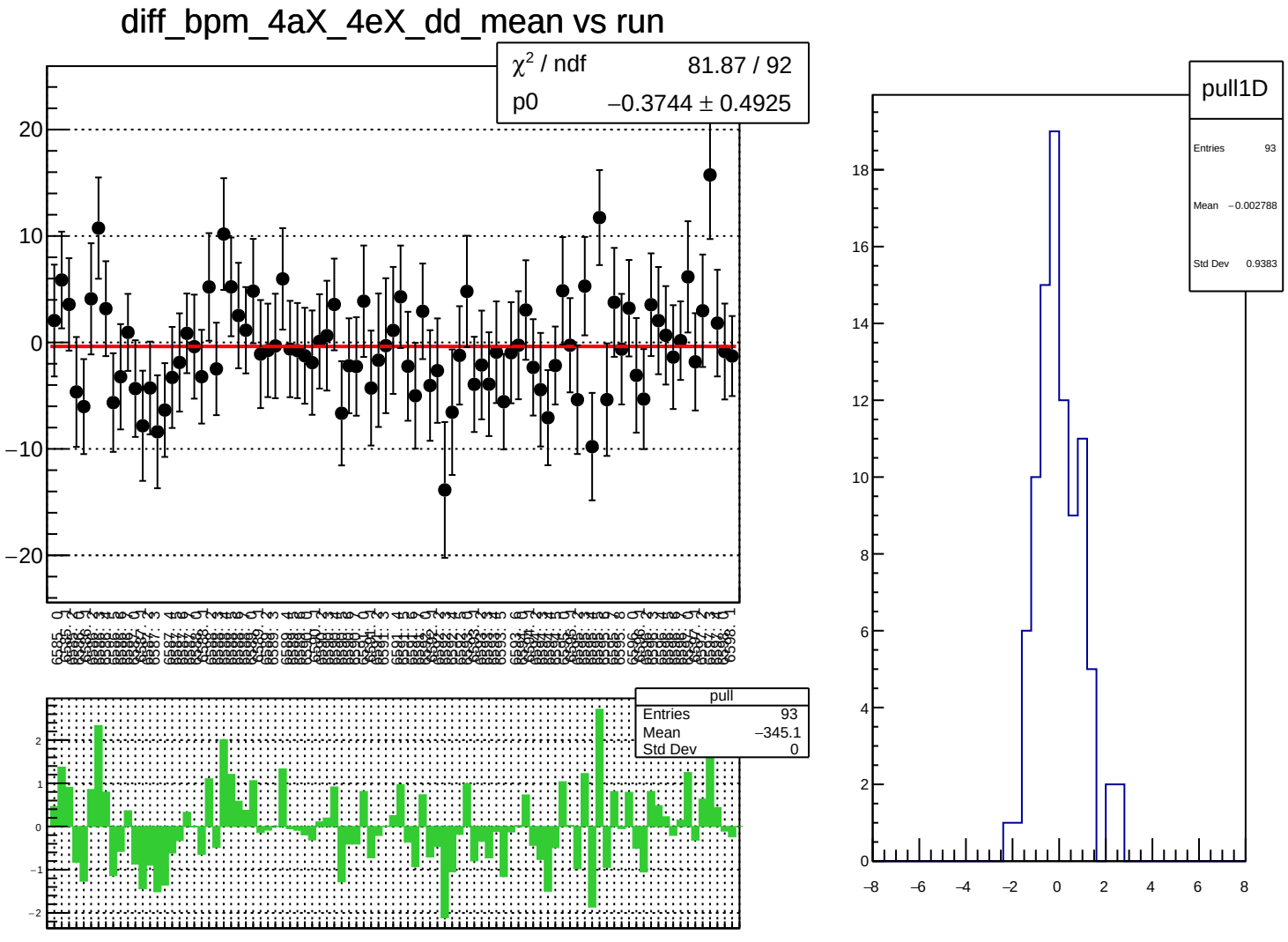

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 88.8 / 92
p0 0.1373 ± 0.4521
pull
Entries 93
Mean 763.2
Std Dev 0
pull1D
Entries 93
Mean −0.004247
Std Dev 0.9772

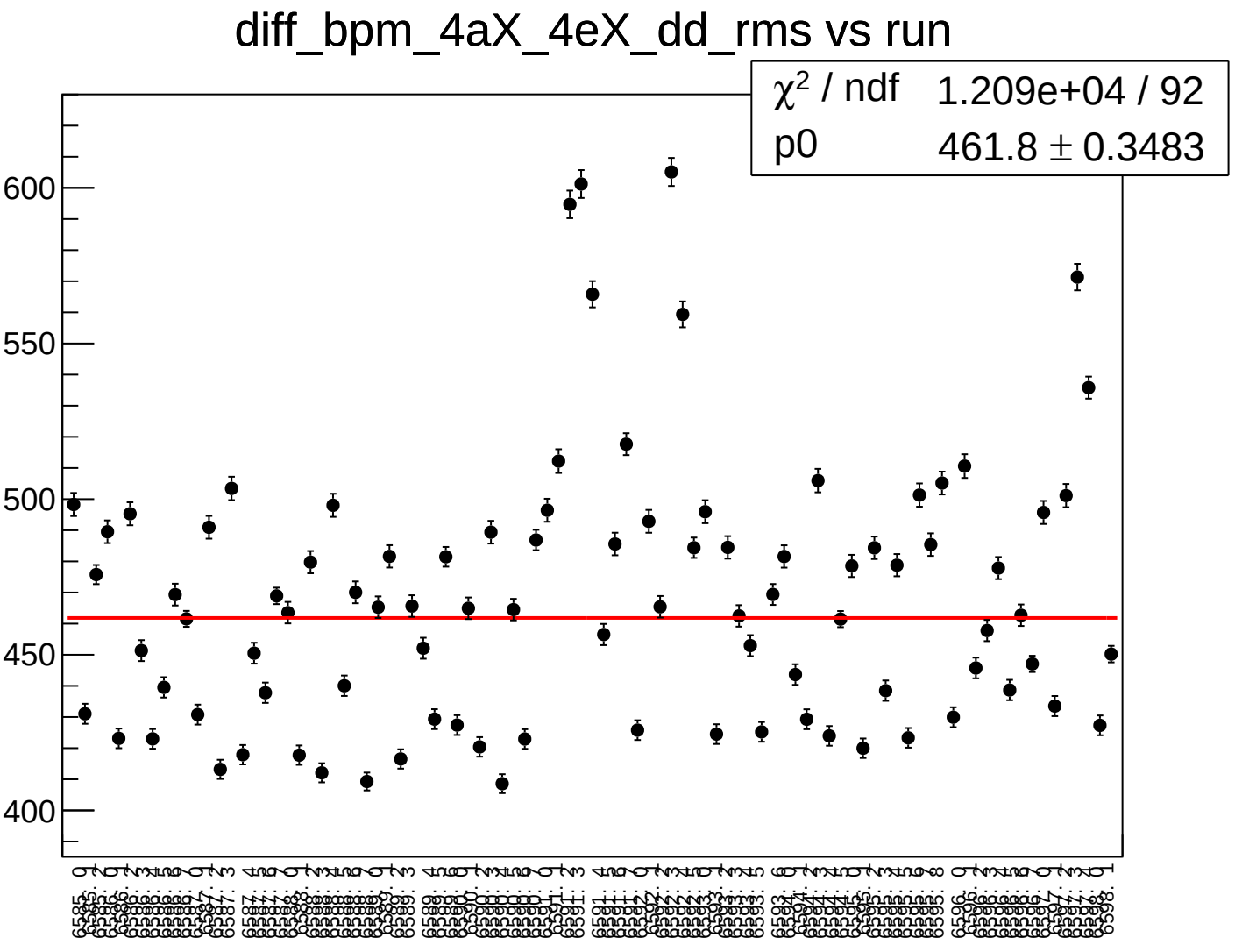

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 200.5 / 92
p0 425.3 ± 0.3197
440
435
430
425
420
415

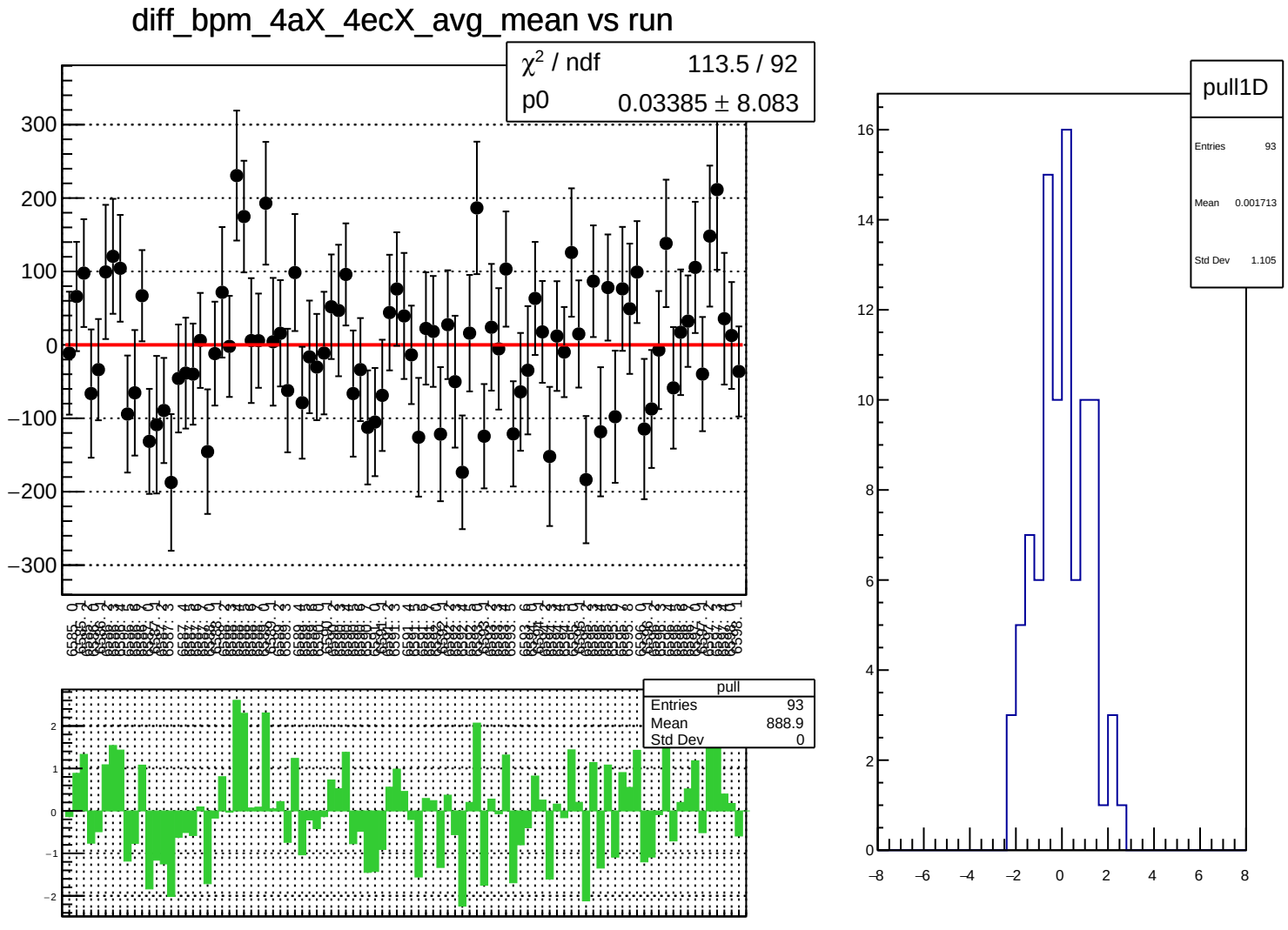

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 113.4 / 92
p0 −0.00692 ± 8.032
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 824
Std Dev 0
2
1
0
−1
−2

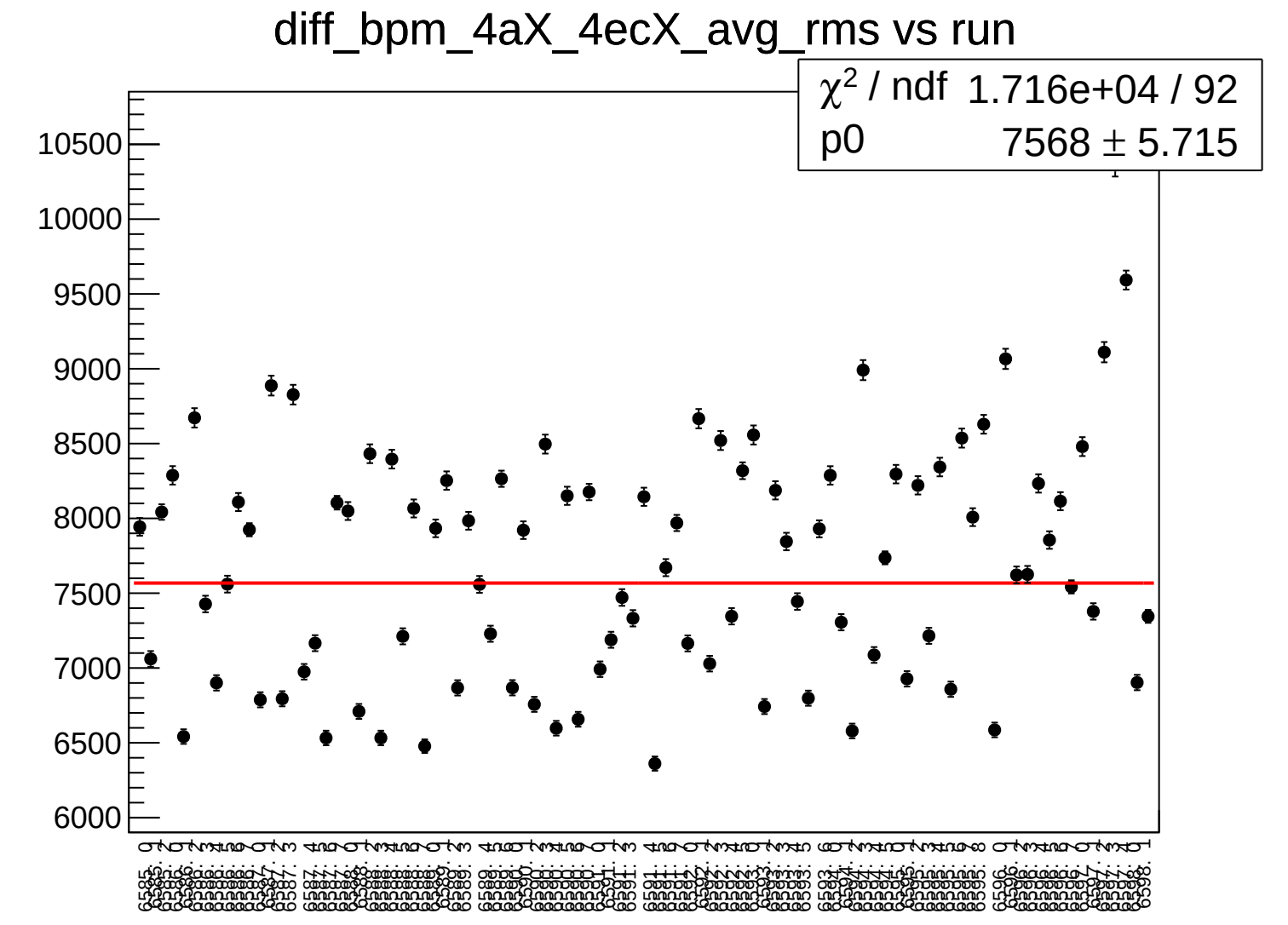

pull1D
Entries 93
Mean 0.001714
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

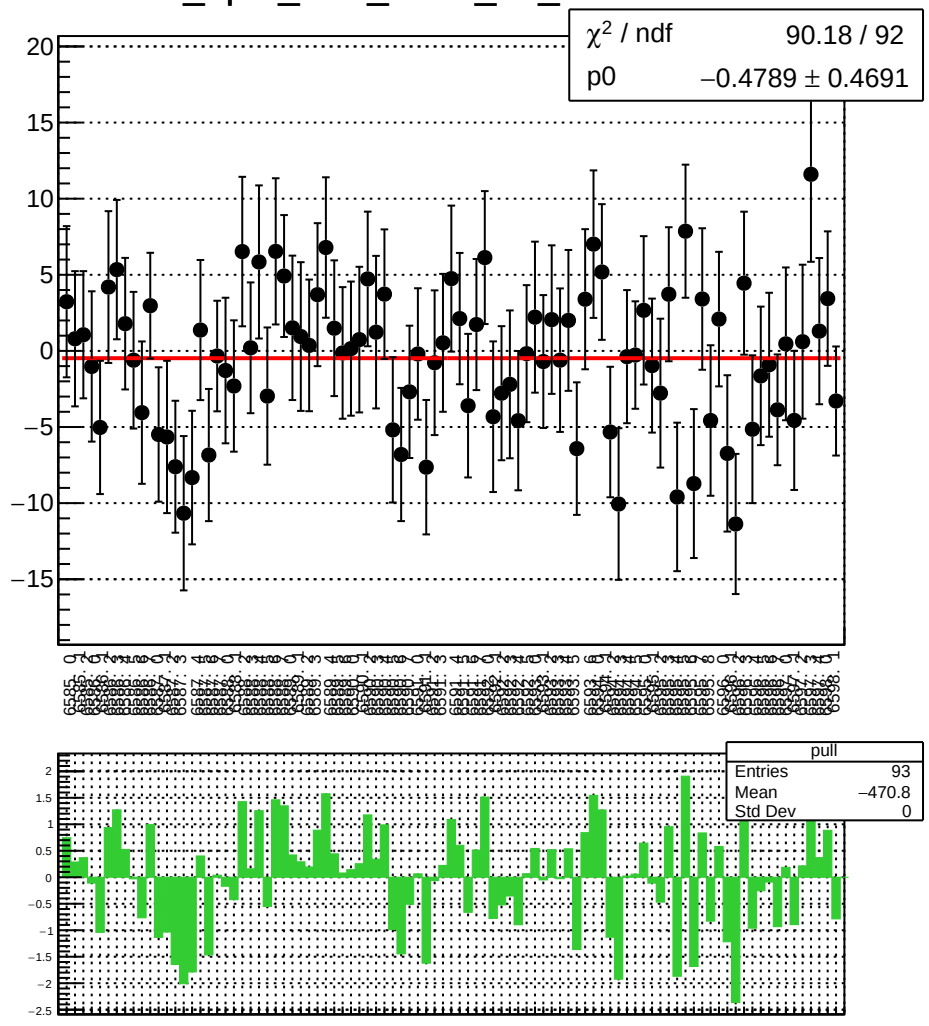

diff_bpm_4aX_4eX_avg_rms vs run
χ^2 / ndf 1.718e+04 / 92
p0 7520 ± 5.679
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

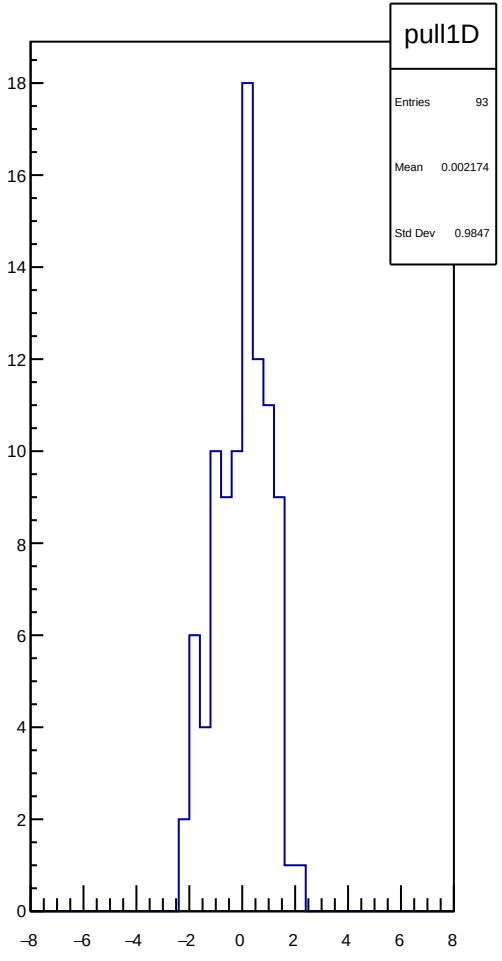

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 81.87 / 92
p0 −0.3744 ± 0.4925
pull
Entries 93
Mean −345.1
Std Dev 0
pull1D
Entries 93
Mean −0.002788
Std Dev 0.9383

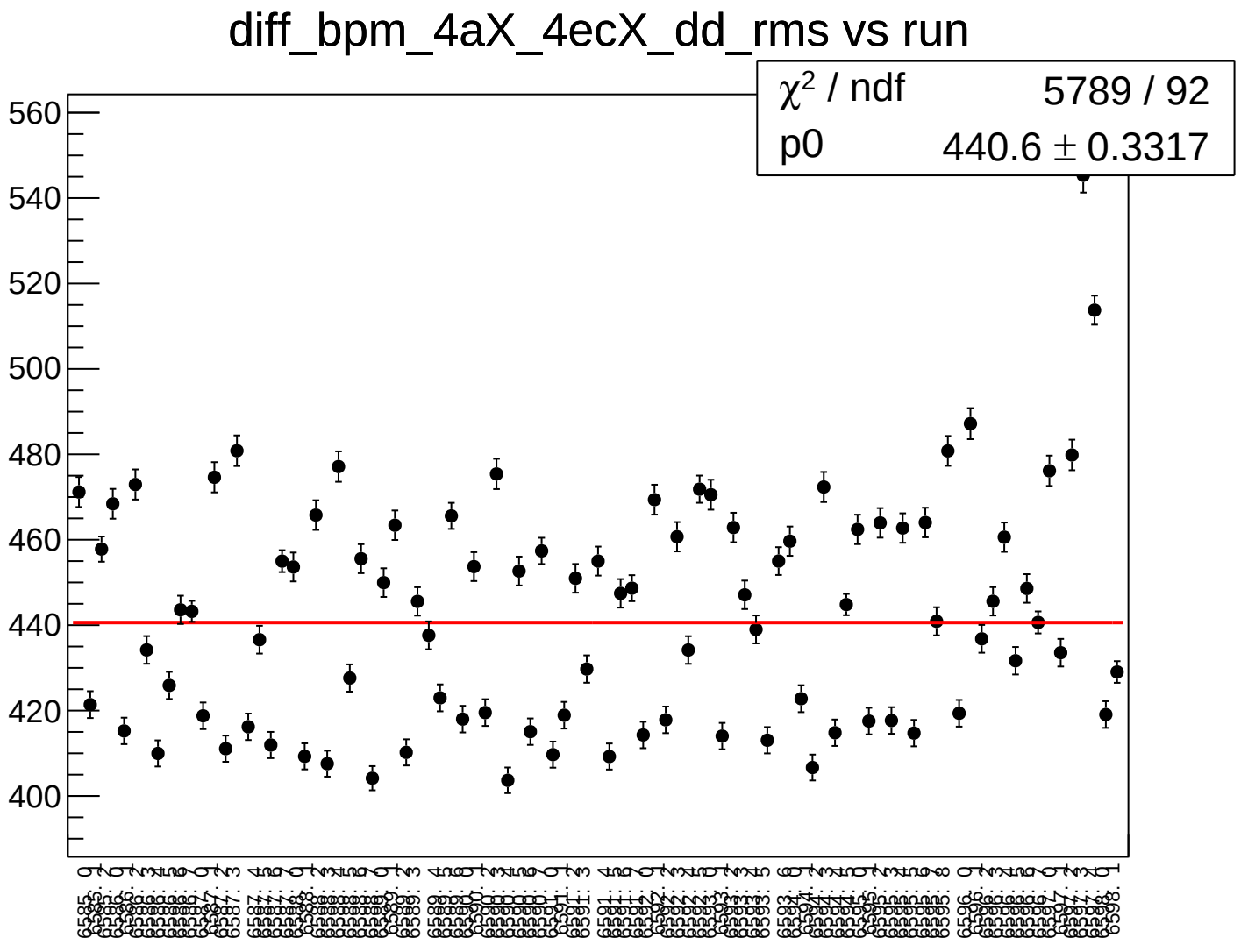

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1.209e+04 / 92
p0 461.8 ± 0.3483
600
550
500
450
400

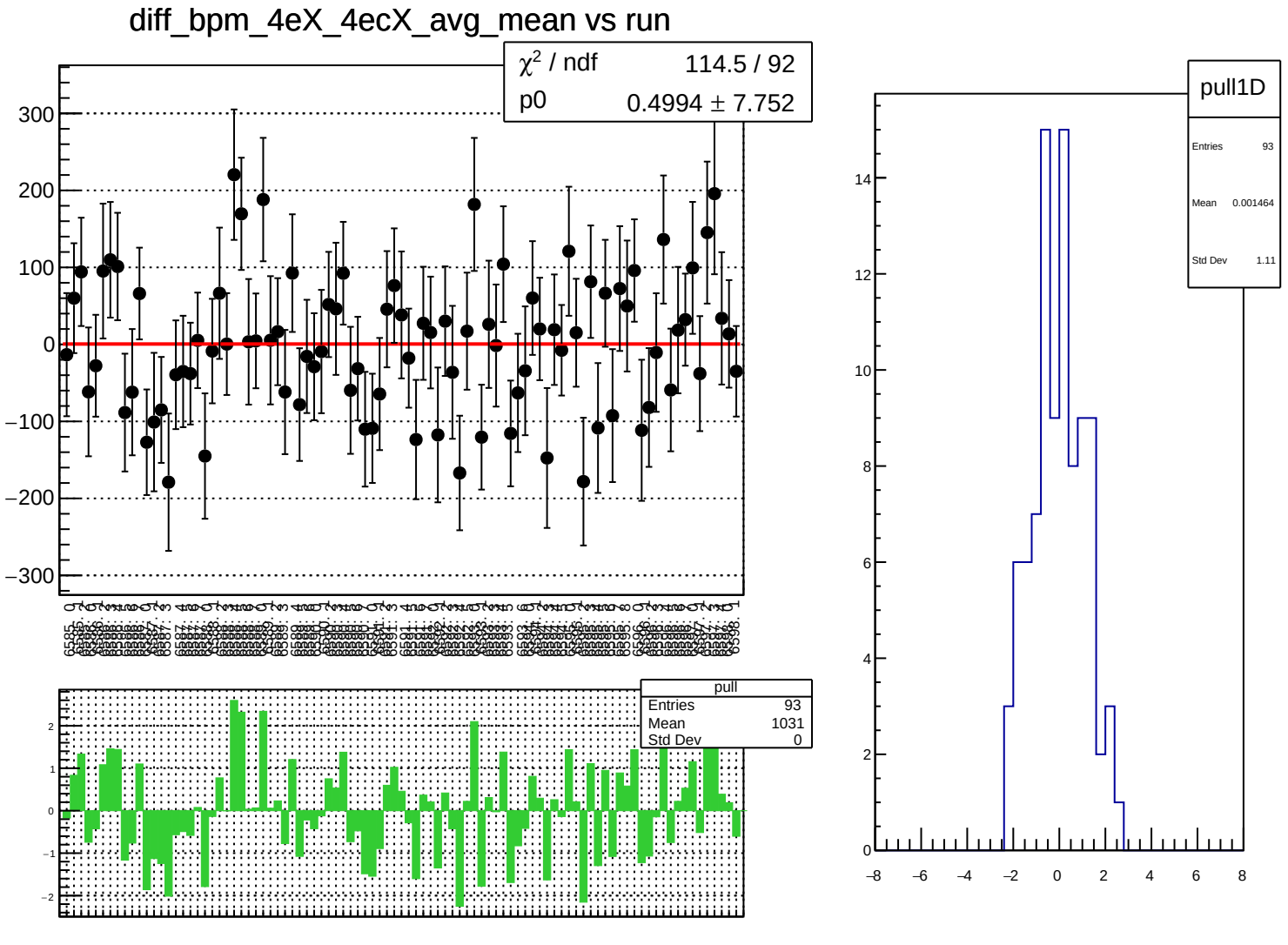

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 113.5 / 92
p0 0.03385 ± 8.083
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 888.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001713
Std Dev 1.105
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

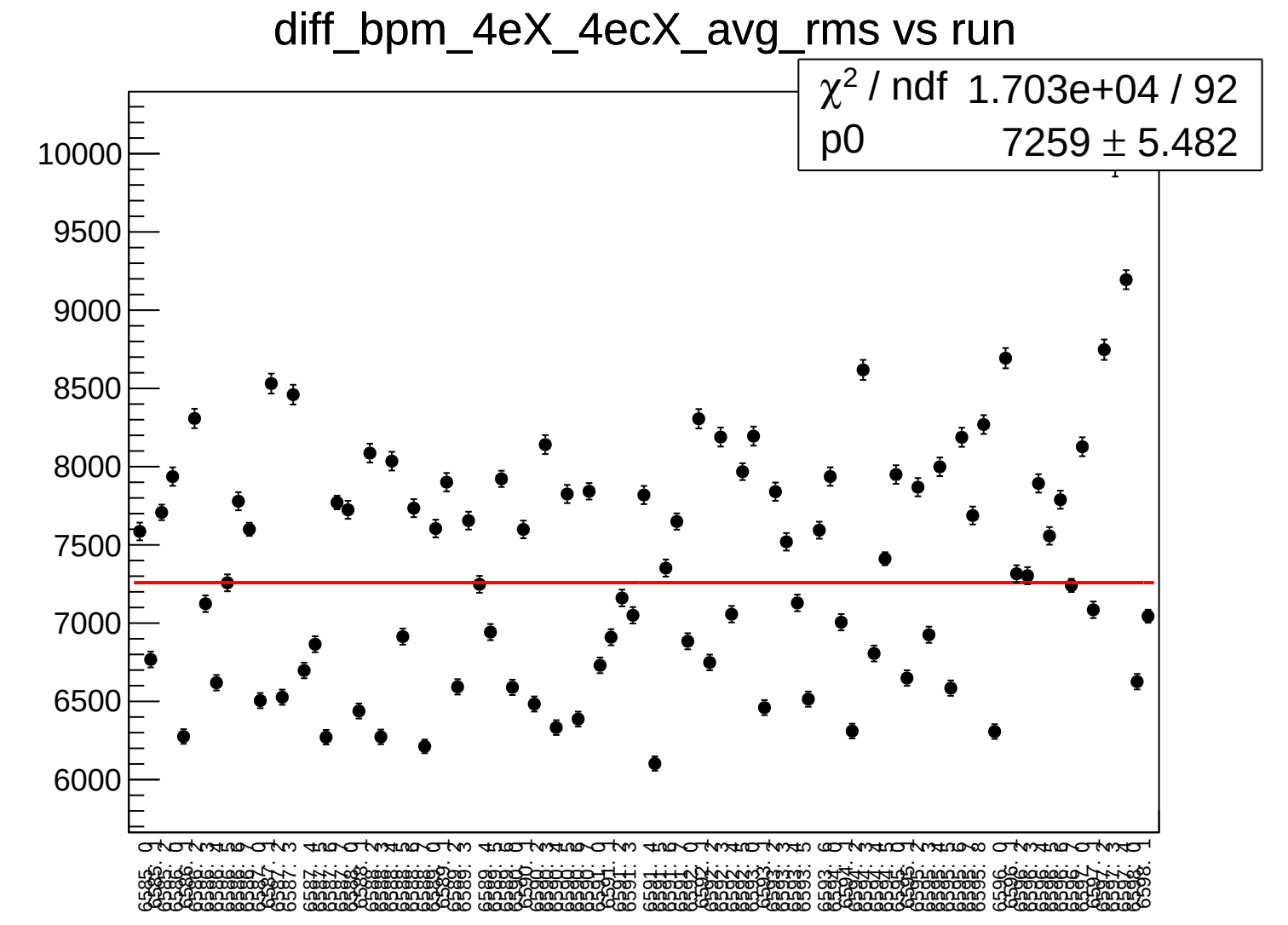

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.716e+04 / 92
p0 7568 ± 5.715
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

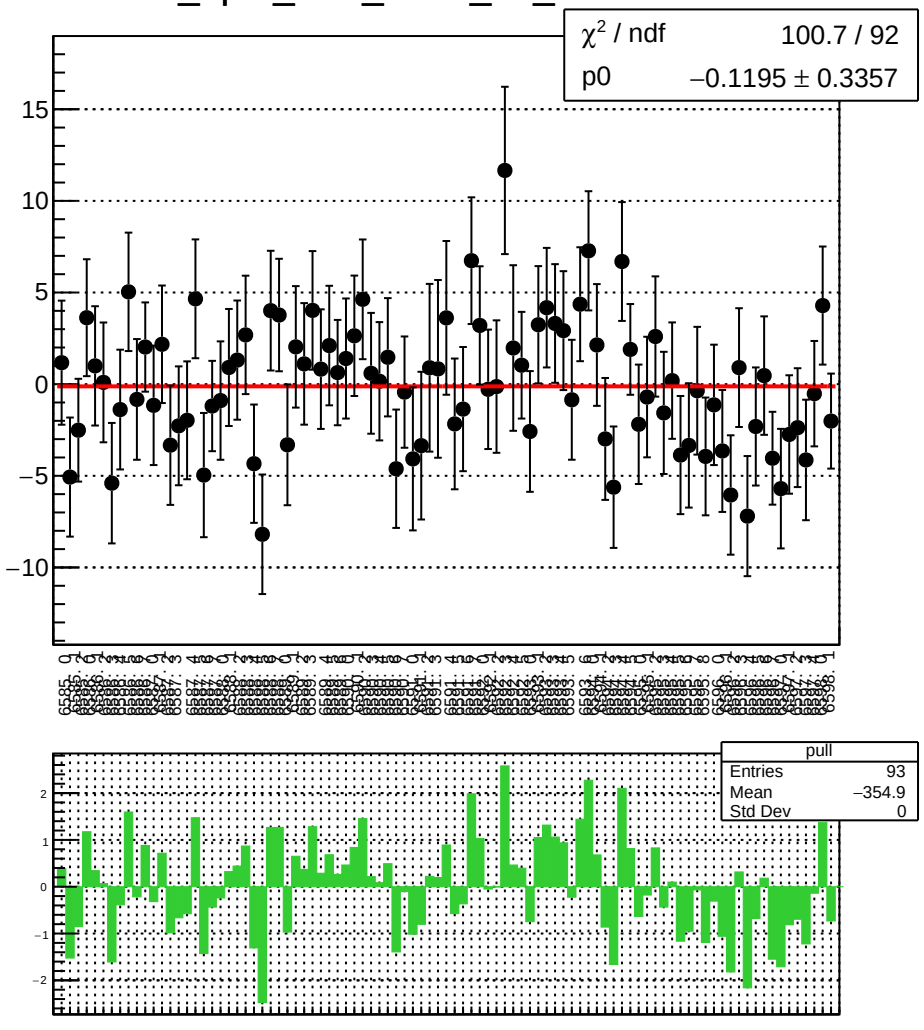

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 90.18 / 92
p0 −0.4789 ± 0.4691
pull
Entries 93
Mean −470.8
Std Dev 0

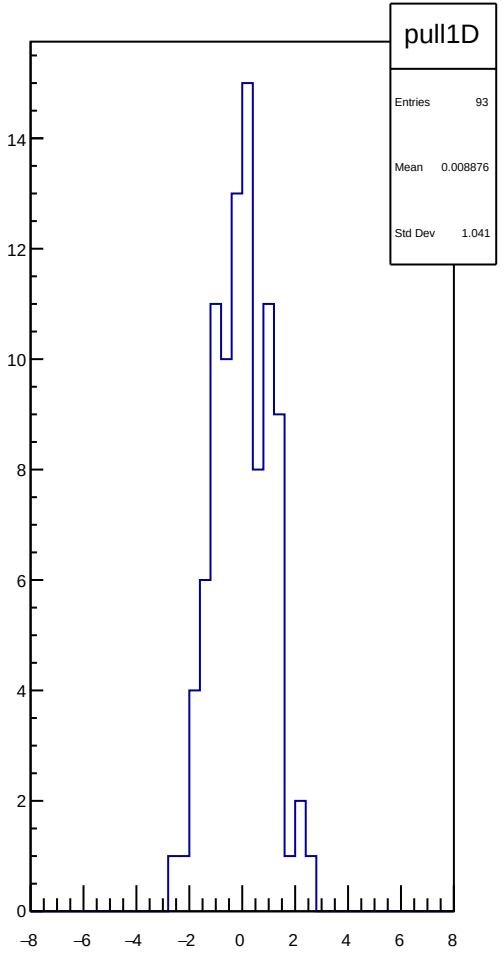

pull1D
Entries 93
Mean 0.002174
Std Dev 0.9847

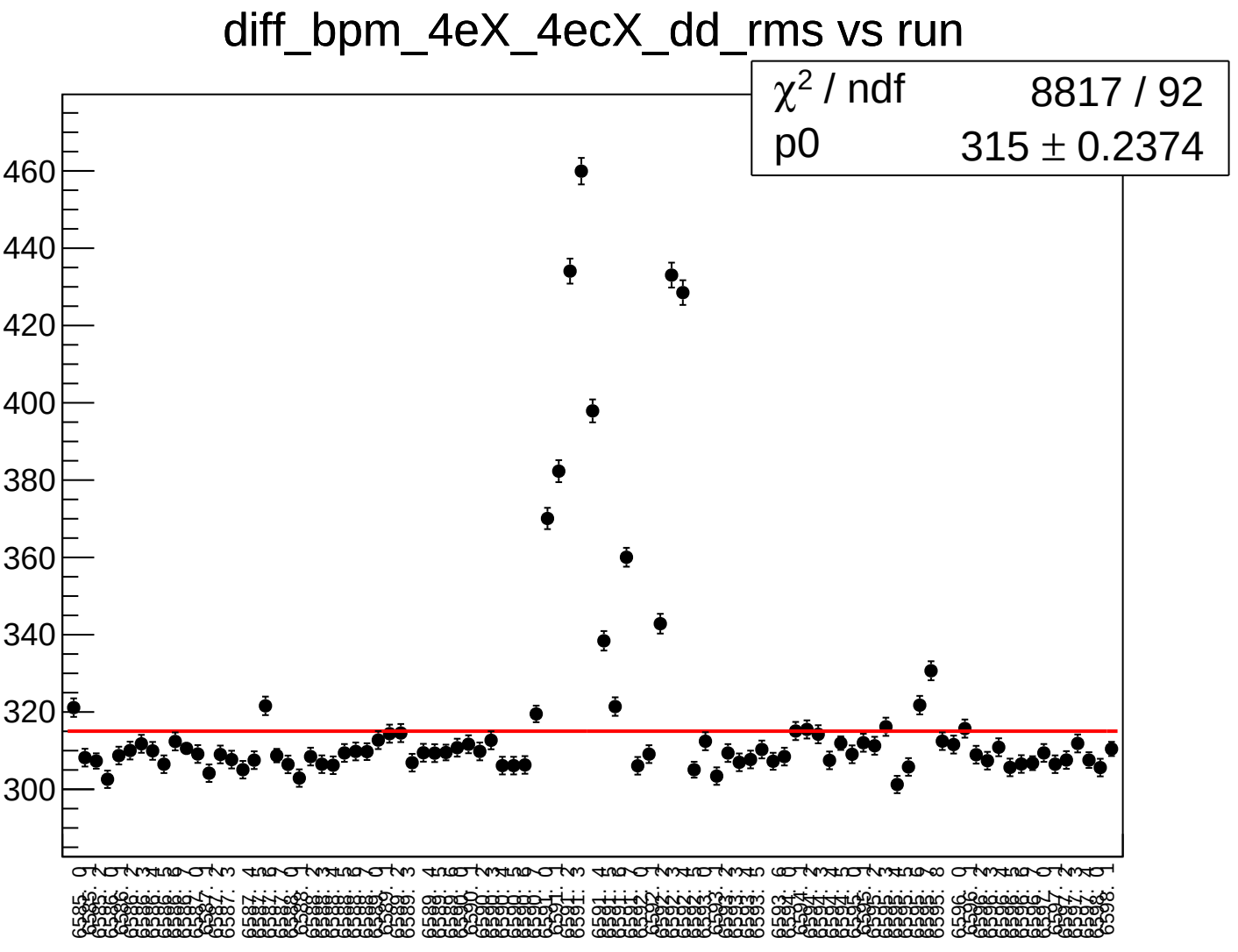

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 5789 / 92
p0 440.6 ± 0.3317
560
540
520
500
480
460
440
420
400

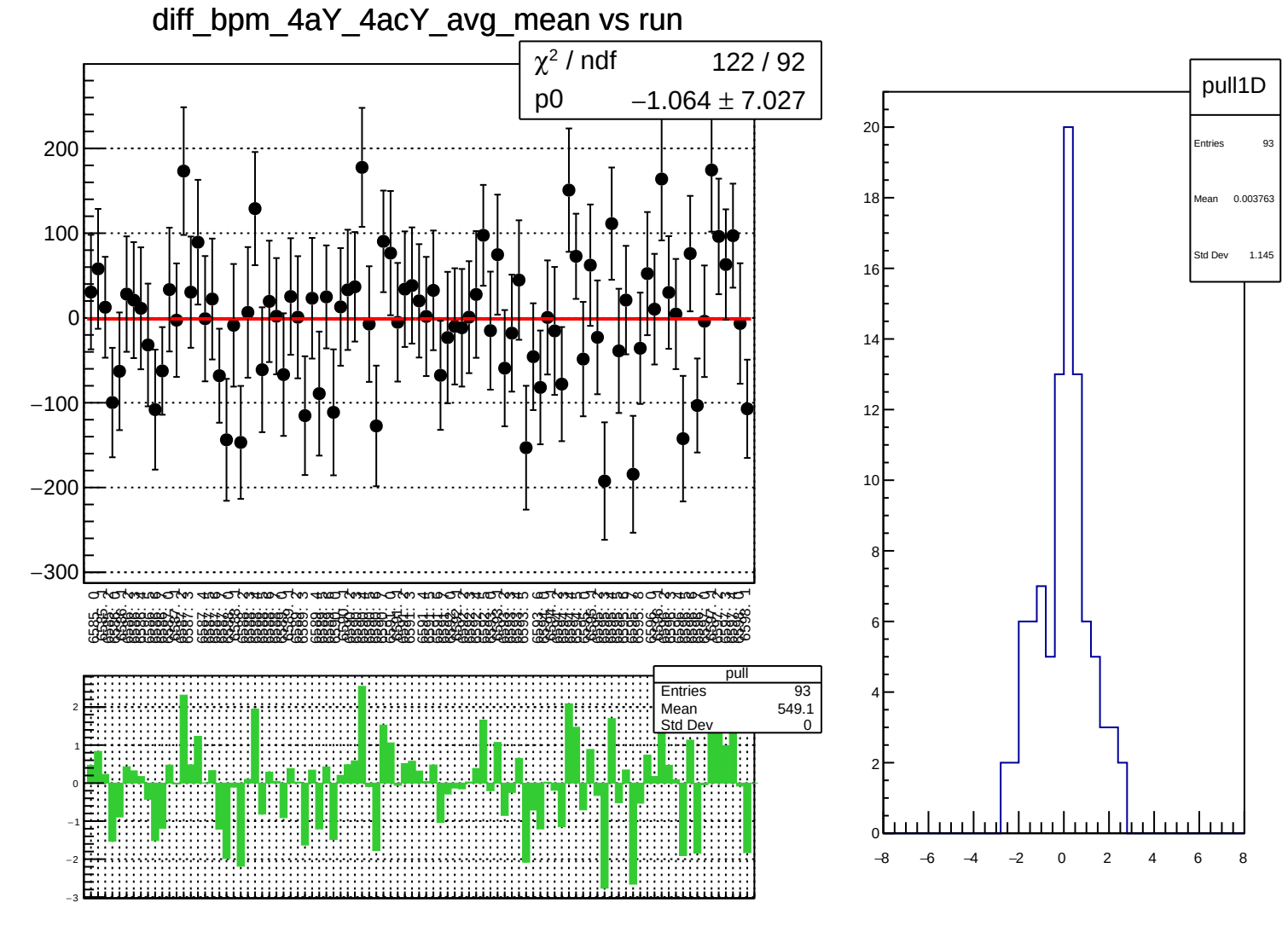

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 114.5 / 92
p0 0.4994 ± 7.752
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 1031
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001464
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

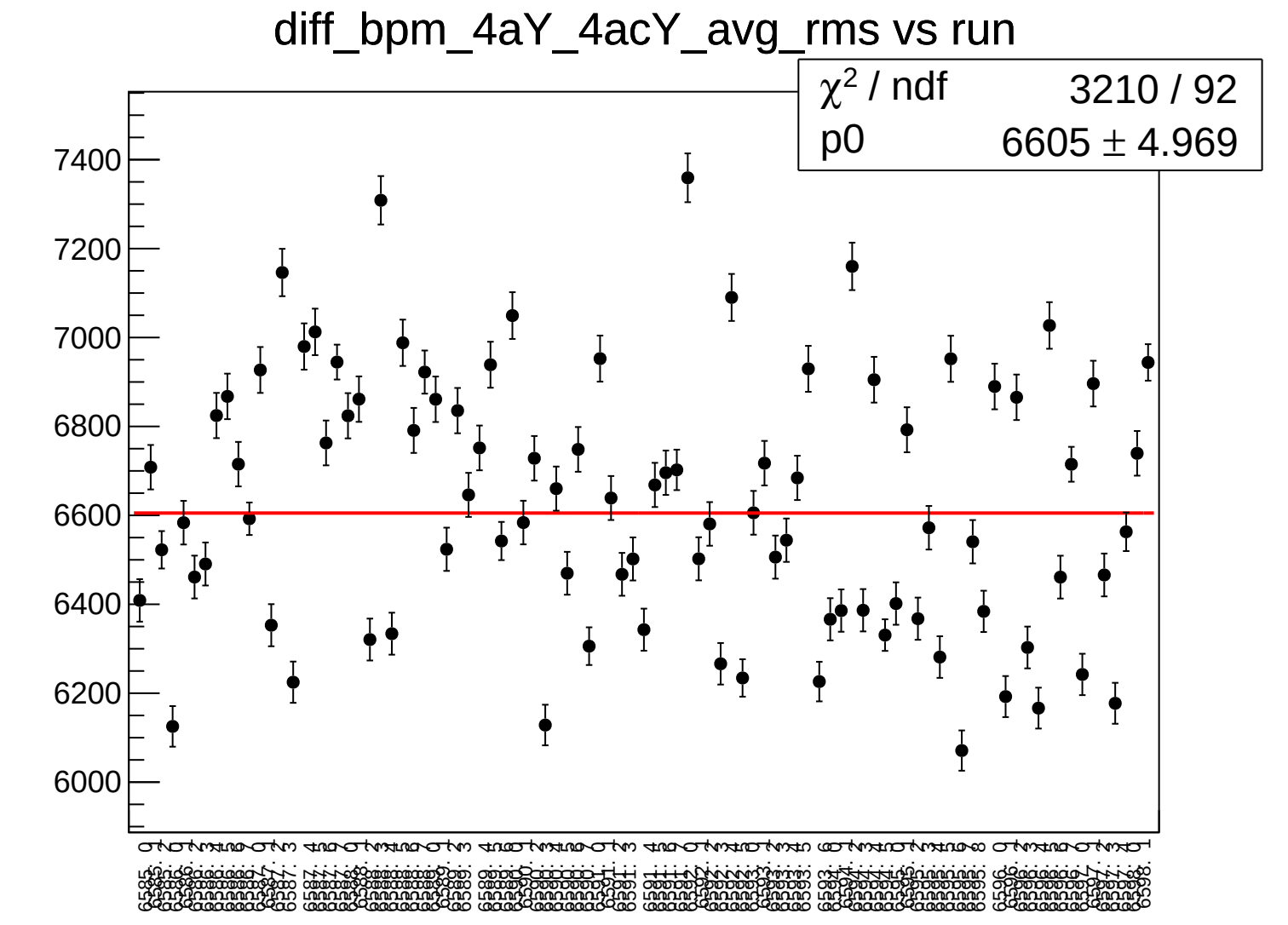

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.703e+04 / 92
p0 7259 ± 5.482
10000
9500
9000
8500
8000
7500
7000
6500
6000

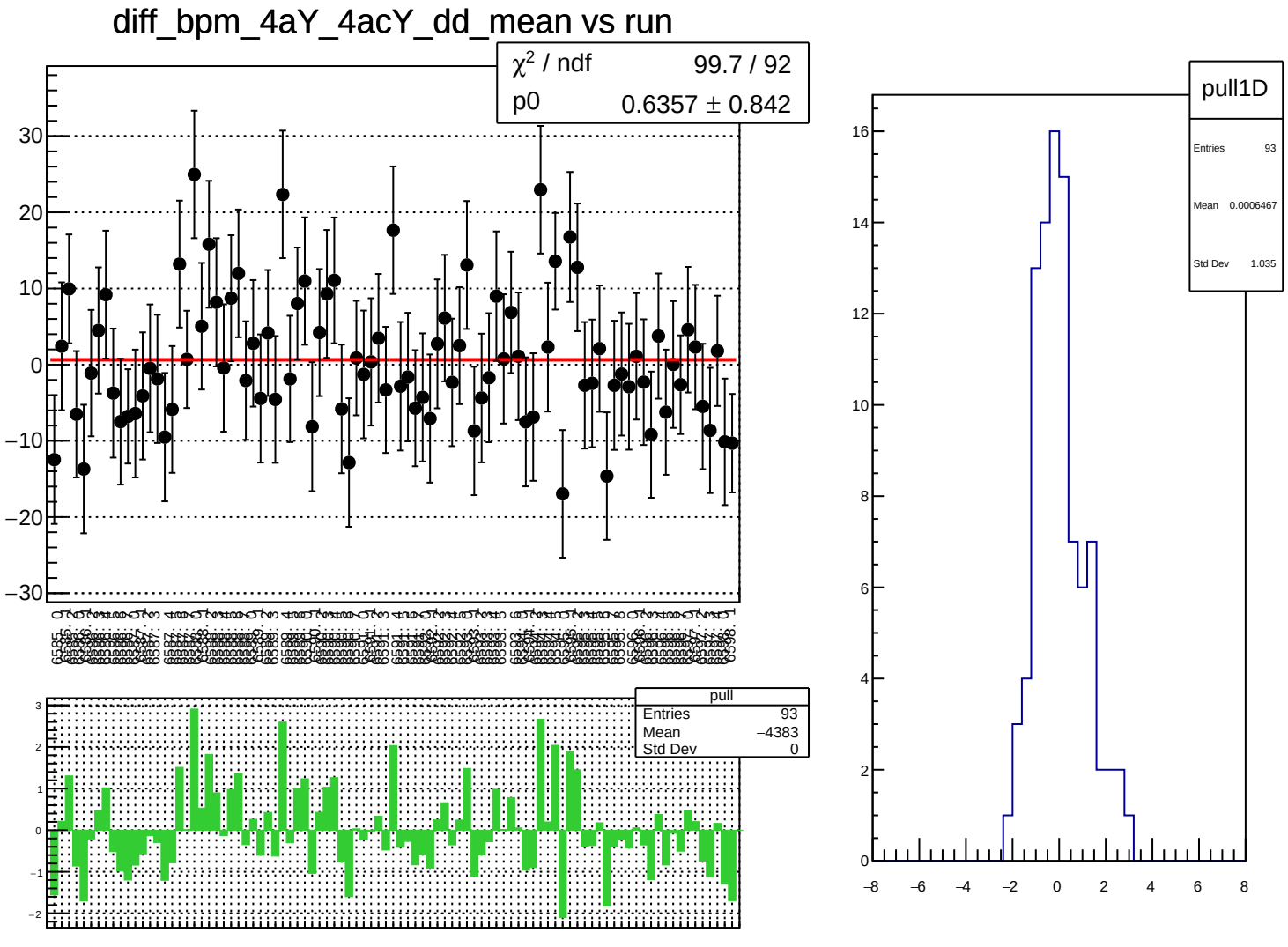

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 100.7 / 92
p0 −0.1195 ± 0.3357
pull
Entries 93
Mean −354.9
Std Dev 0

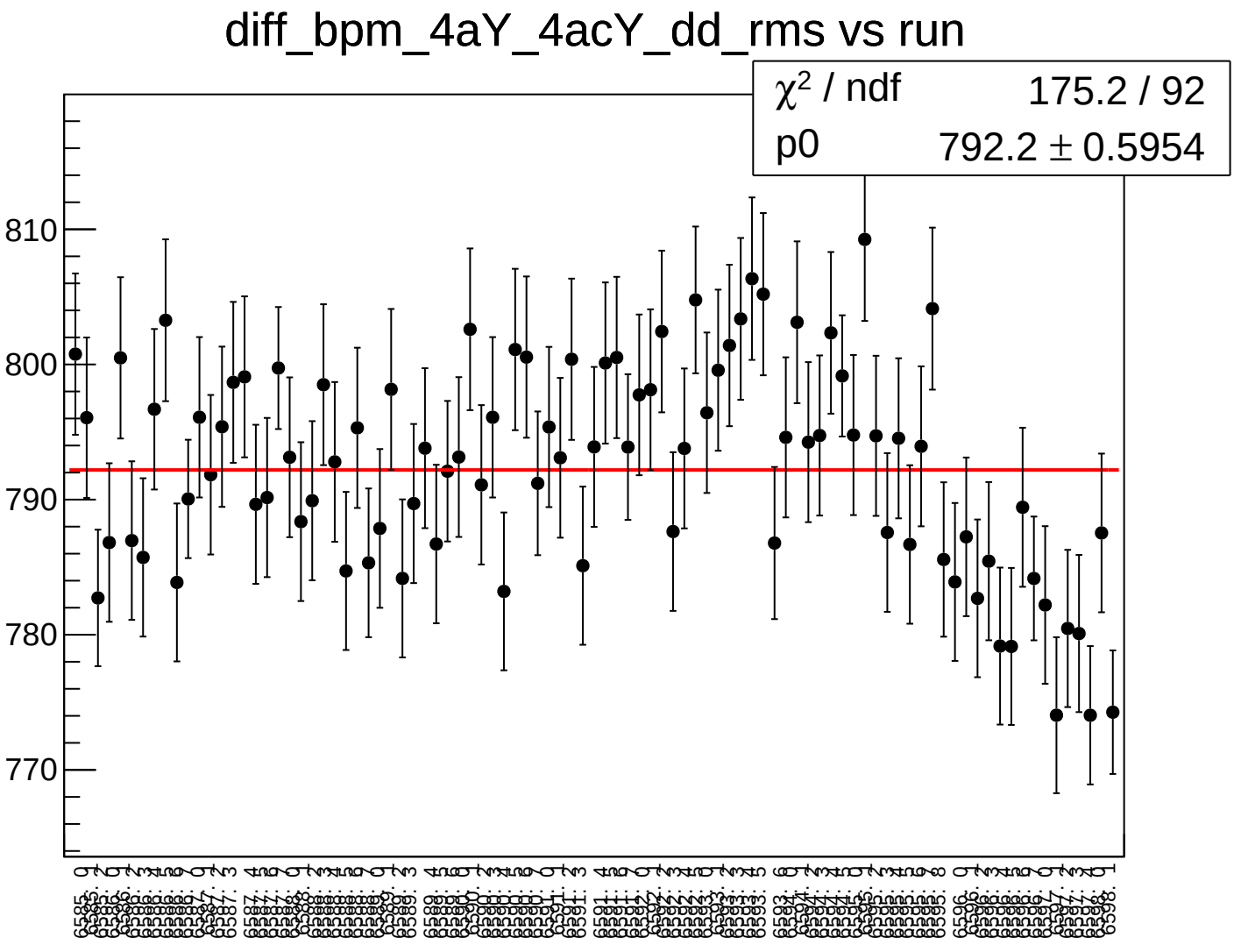

pull1D
Entries 93
Mean 0.008876
Std Dev 1.041

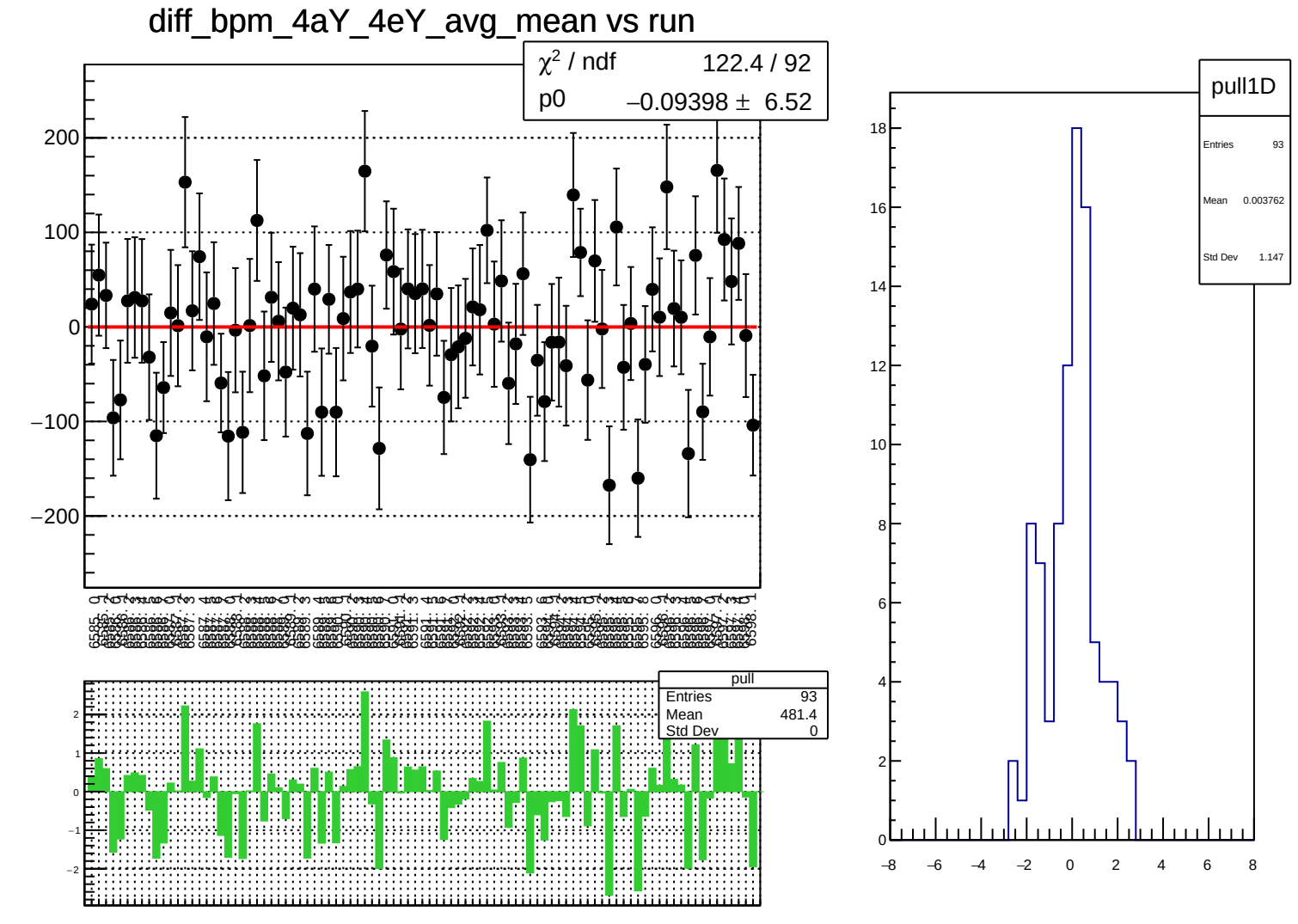

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 8817 / 92
p0 315 ± 0.2374
460
440
420
400
380
360
340
320
300

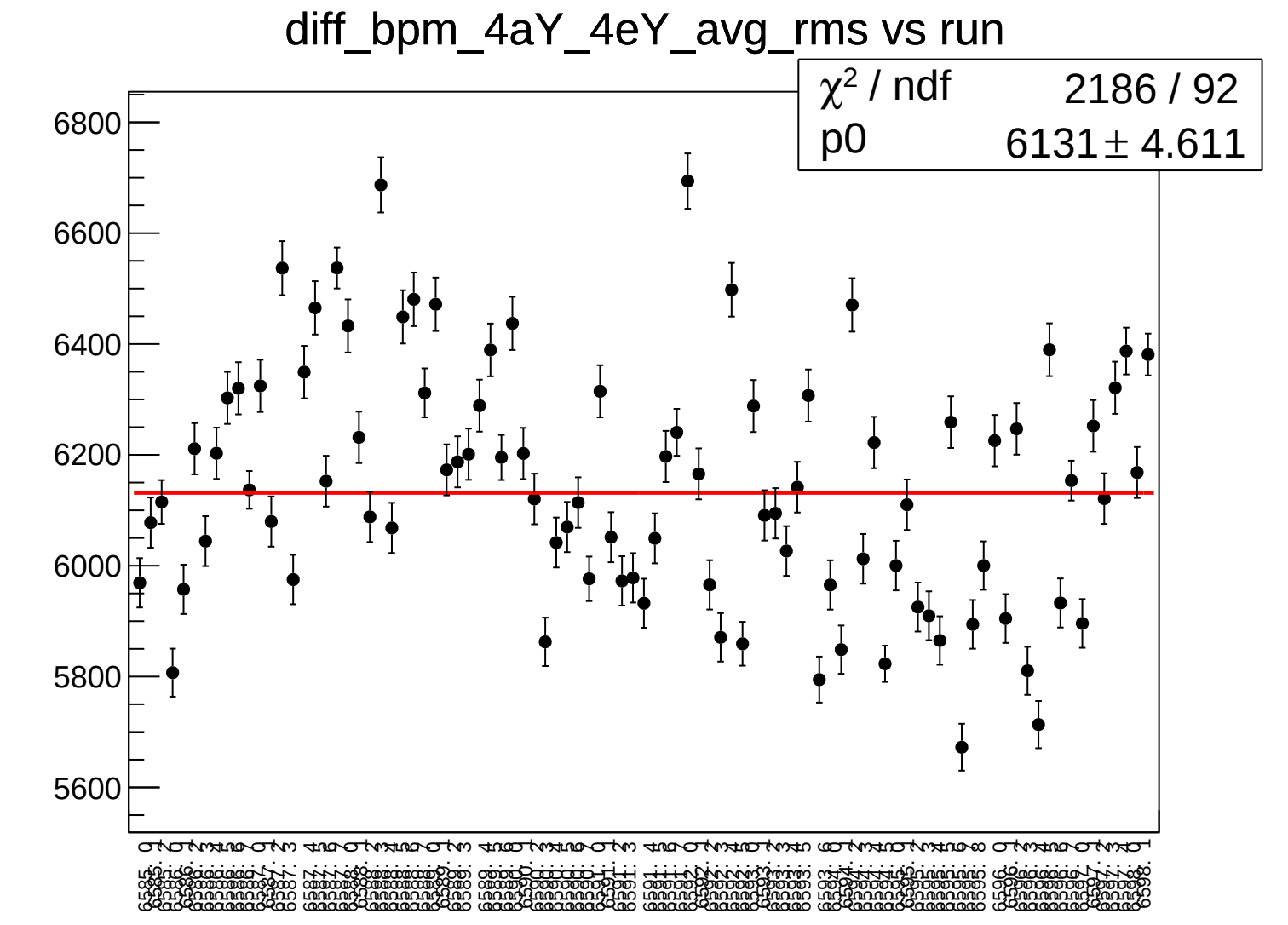

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 122 / 92
p0 −1.064 ± 7.027
200
100
0
−100
−200
−300
pull
Entries 93
Mean 549.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.003763
Std Dev 1.145
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

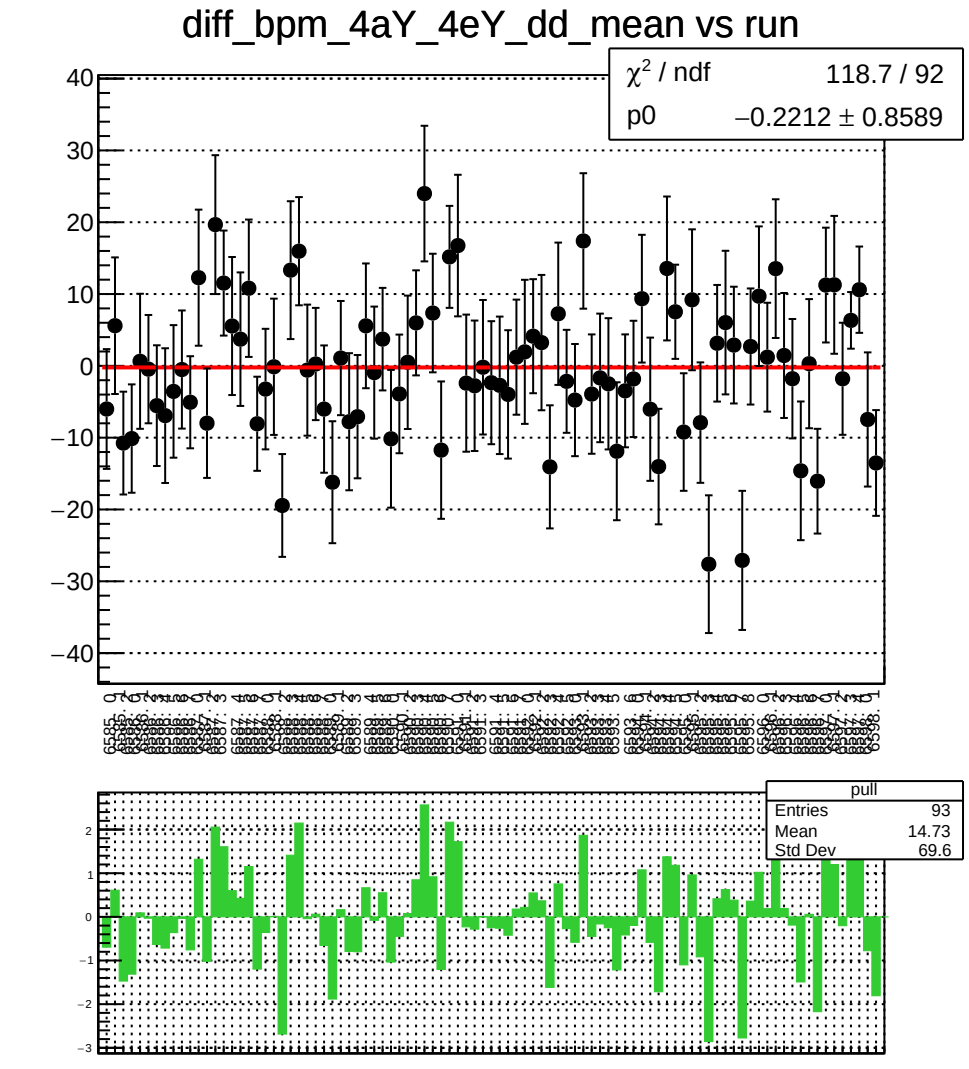

diff_bpm_4aY_4acY_avg_rms vs run
χ^2 / ndf 3210 / 92
p0 6605 ± 4.969
7400
7200
7000
6800
6600
6400
6200
6000

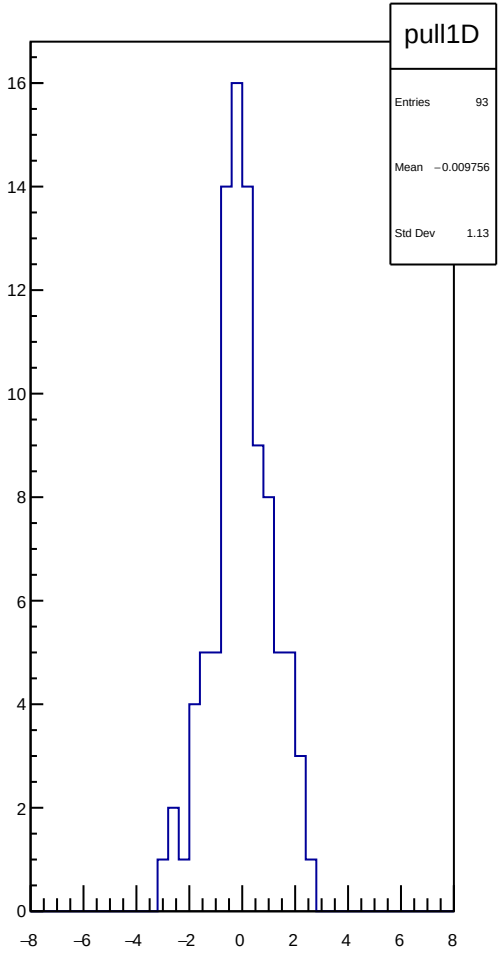

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 99.7 / 92
p0 0.6357 ± 0.842
pull
Entries 93
Mean −4383
Std Dev 0
pull1D
Entries 93
Mean 0.0006467
Std Dev 1.035

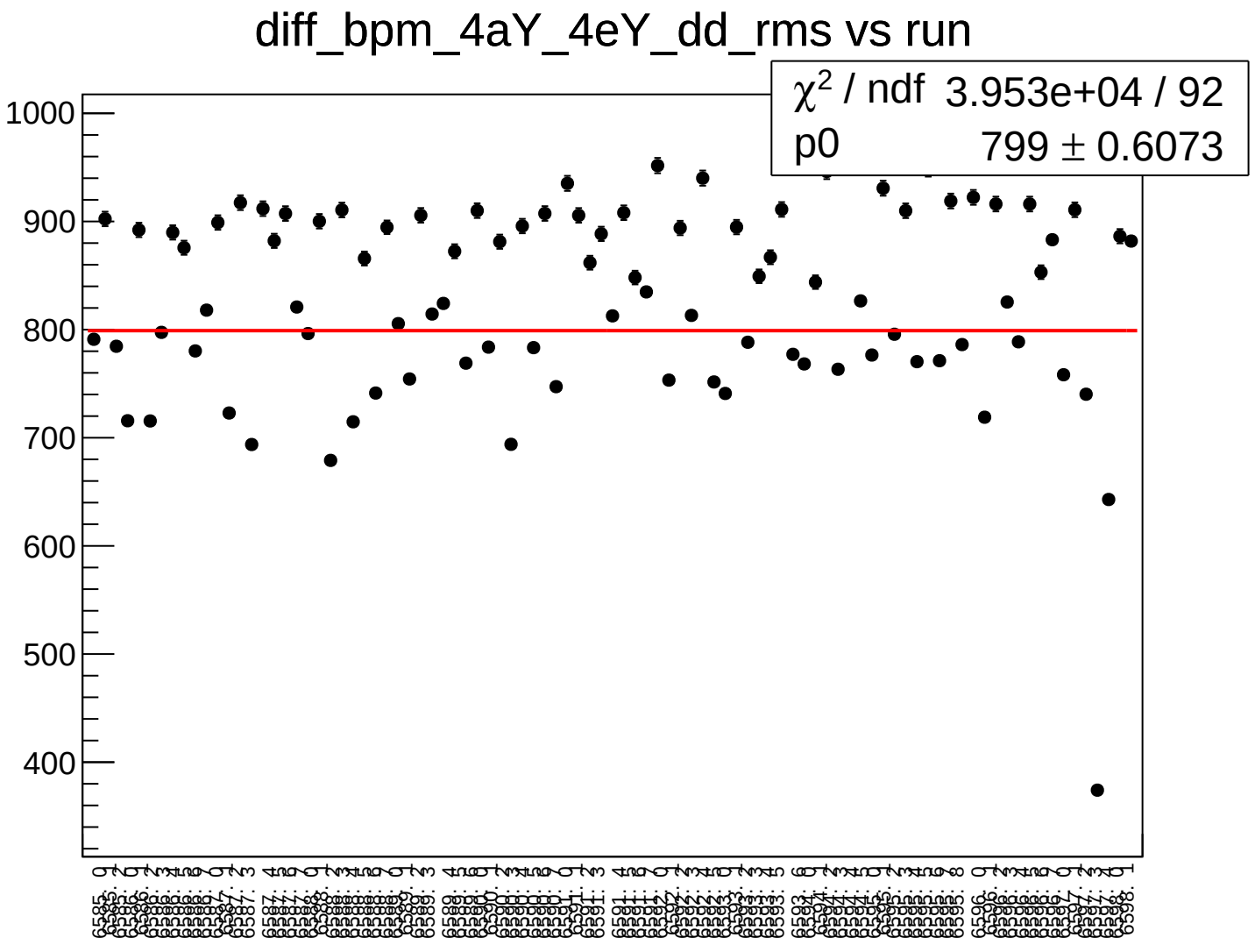

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 175.2 / 92
p0 792.2 ± 0.5954
810
800
790
780
770

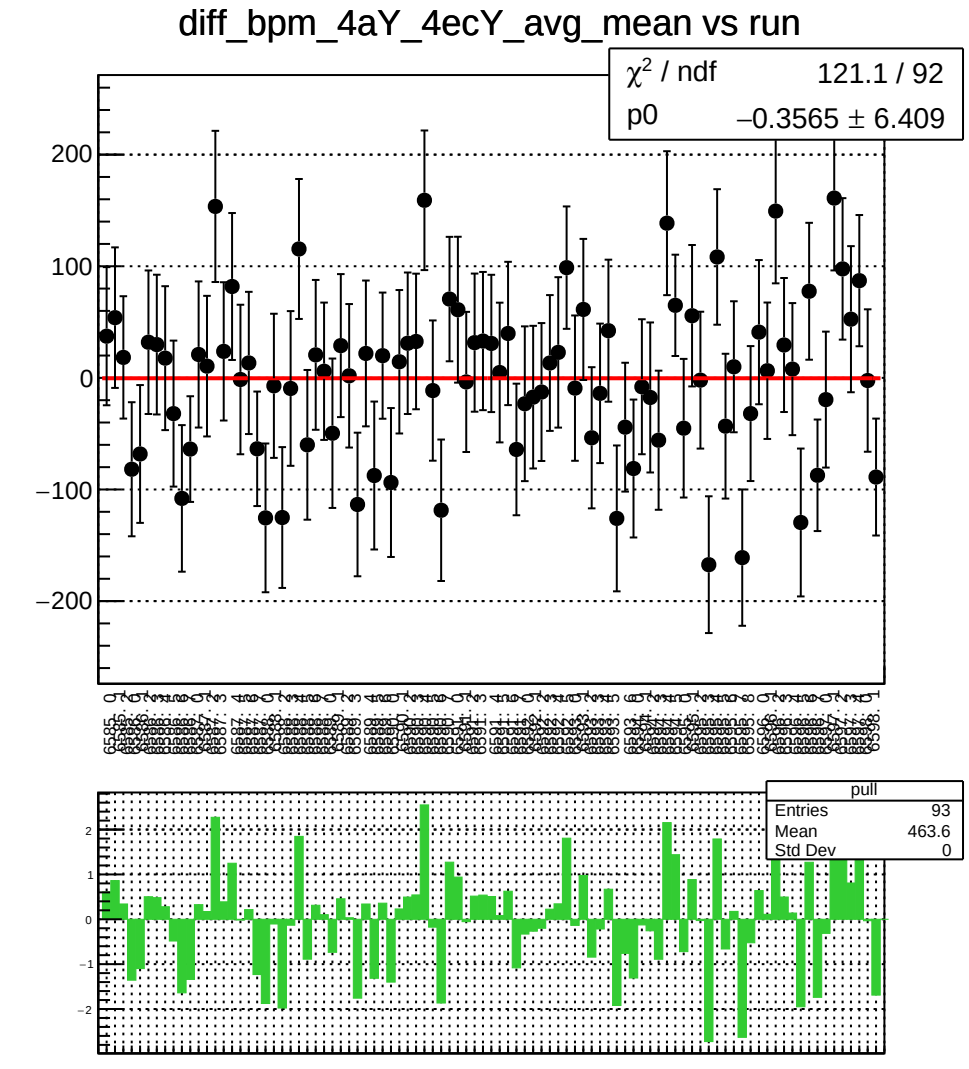

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 122.4 / 92
p0 −0.09398 ± 6.52
200
100
0
−100
−200
pull
Entries 93
Mean 481.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003762
Std Dev 1.147
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

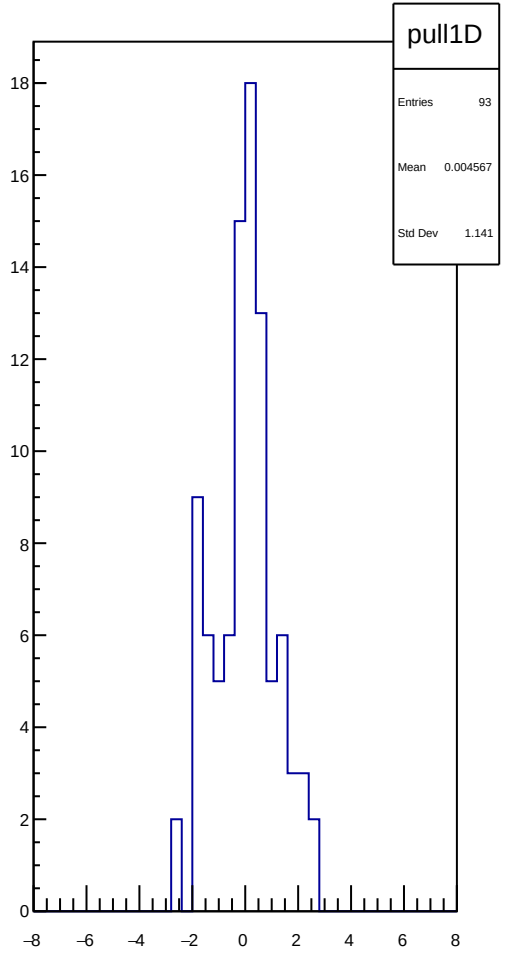

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2186 / 92
p0 6131 ± 4.611
6800
6600
6400
6200
6000
5800
5600

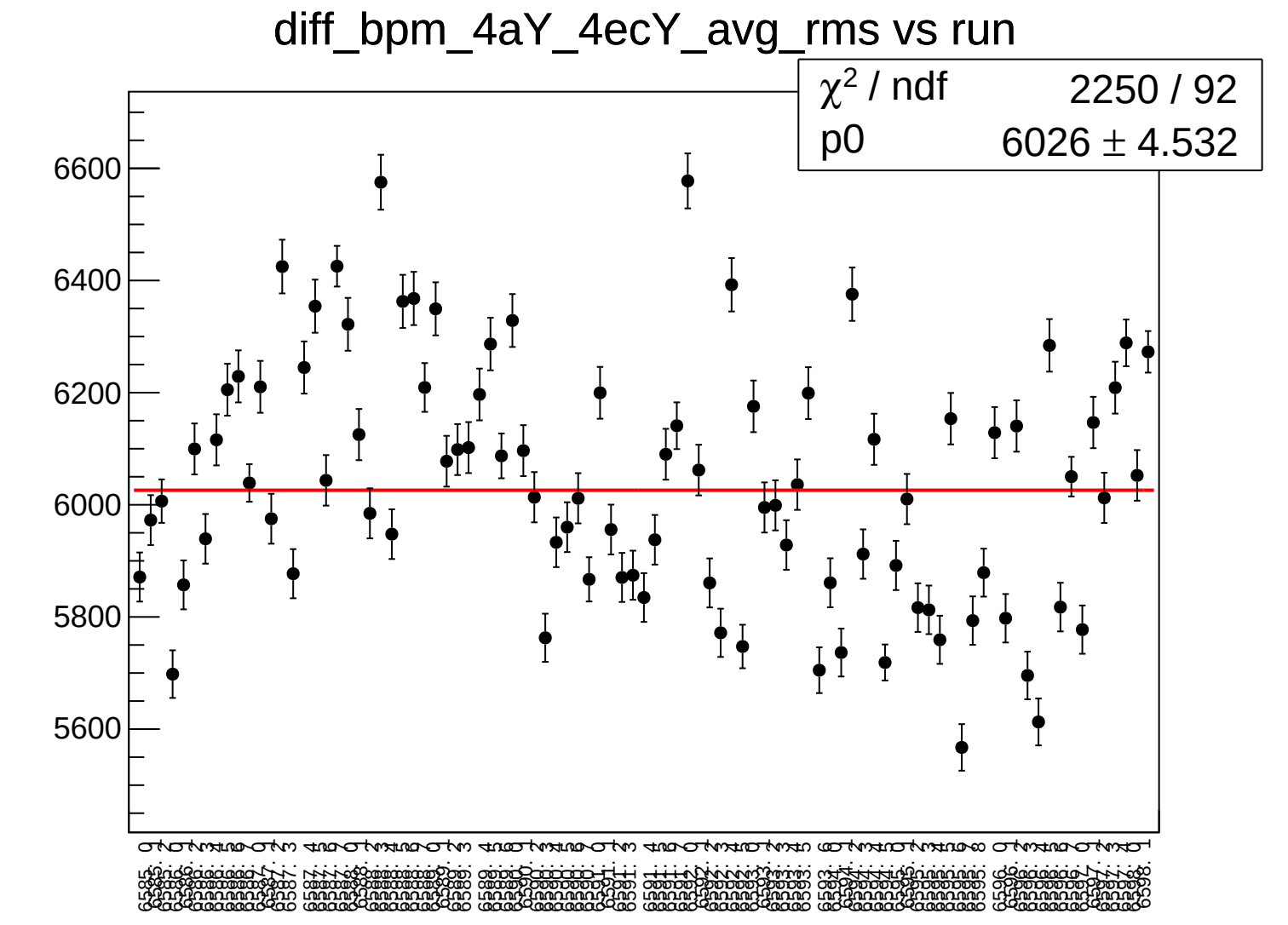

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 118.7 / 92
p0 −0.2212 ± 0.8589
pull
Entries 93
Mean 14.73
Std Dev 69.6

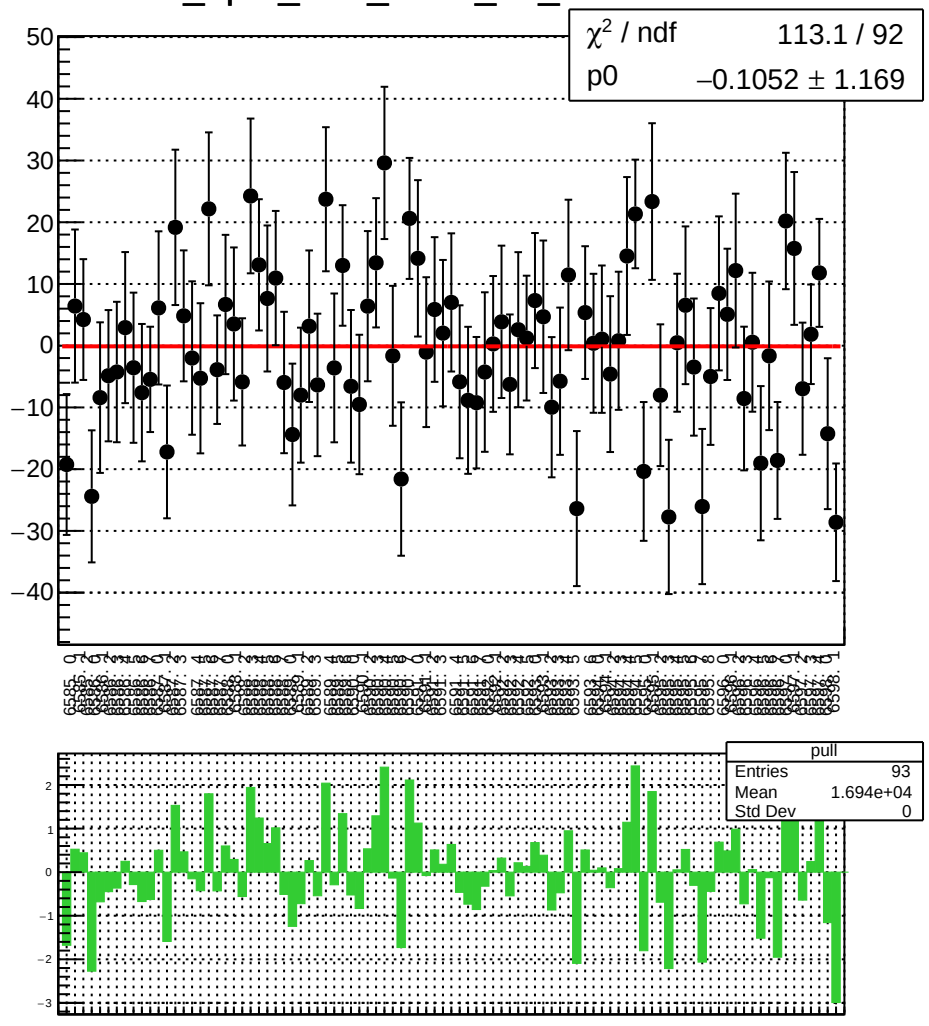

pull1D
Entries 93
Mean −0.009756
Std Dev 1.13

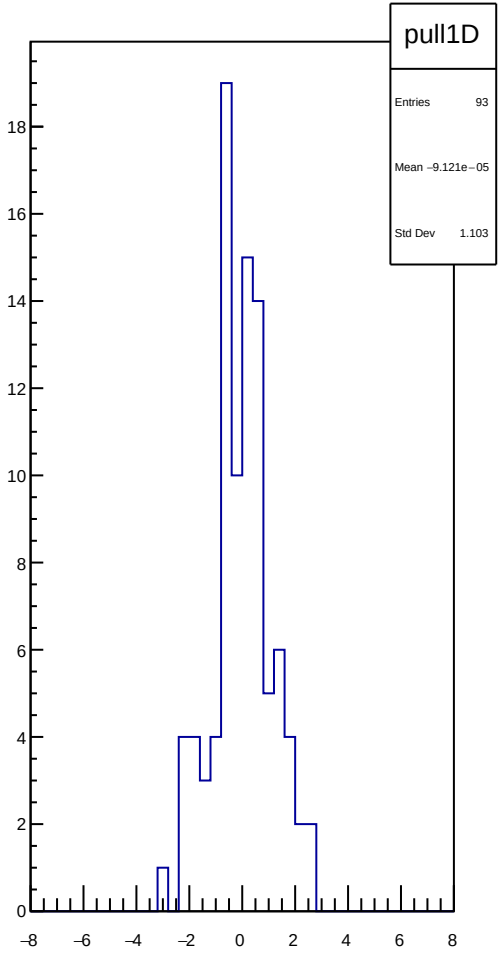

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 3.953e+04 / 92
p0 799 ± 0.6073
1000
900
800
700
600
500
400

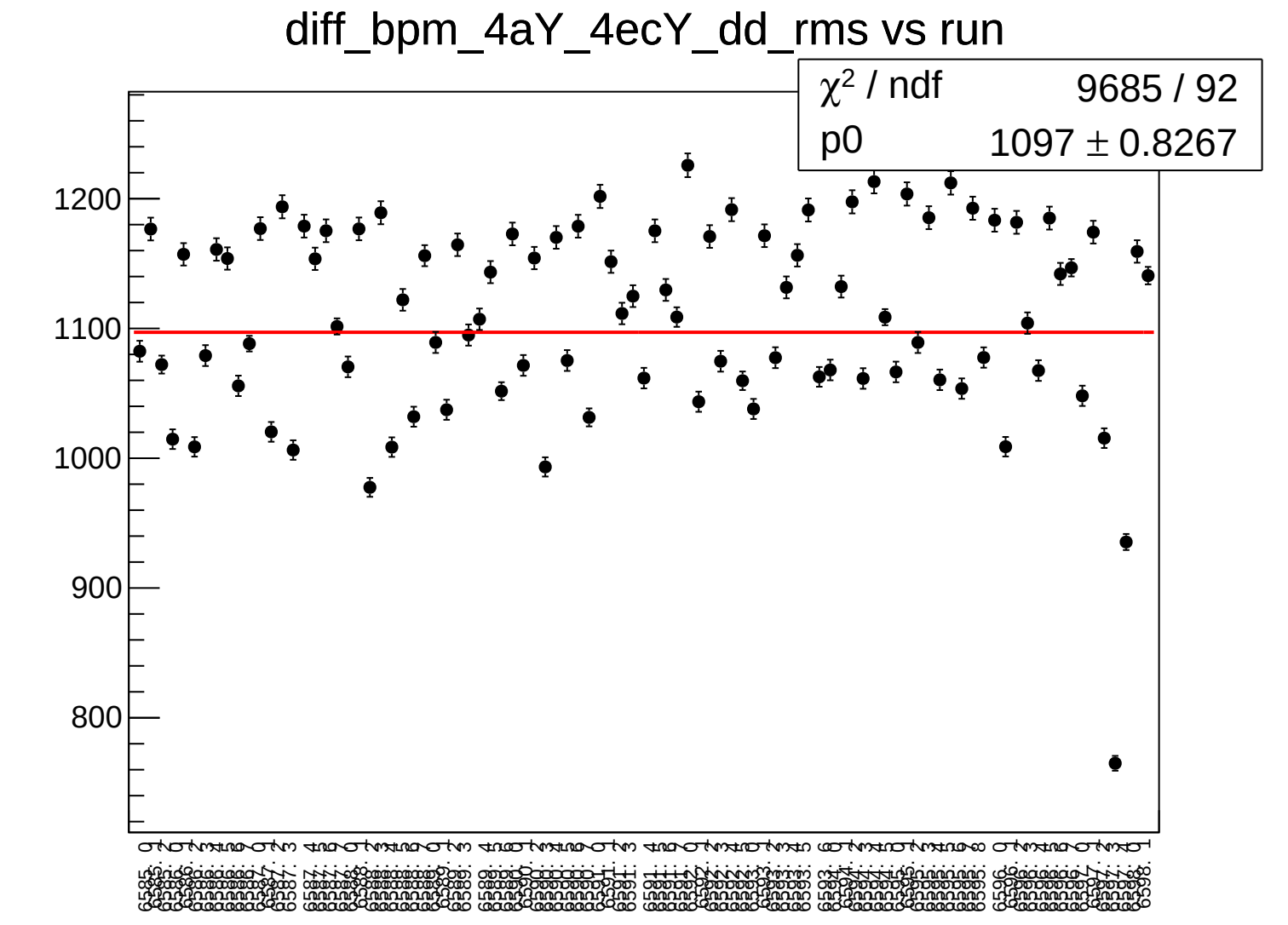

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 121.1 / 92
p0 −0.3565 ± 6.409
200
100
0
−100
−200
pull
Entries 93
Mean 463.6
Std Dev 0
2
1
0
−1
−2

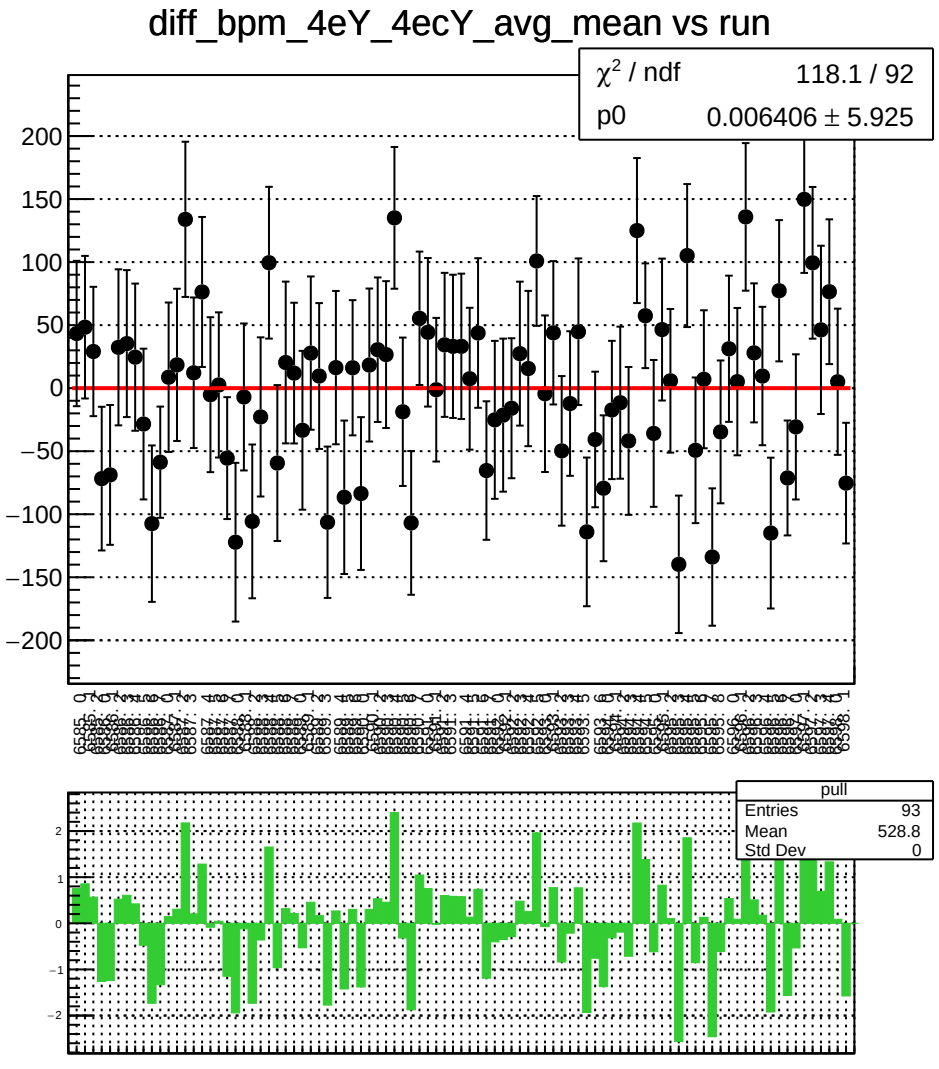

pull1D
Entries 93
Mean 0.004567
Std Dev 1.141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

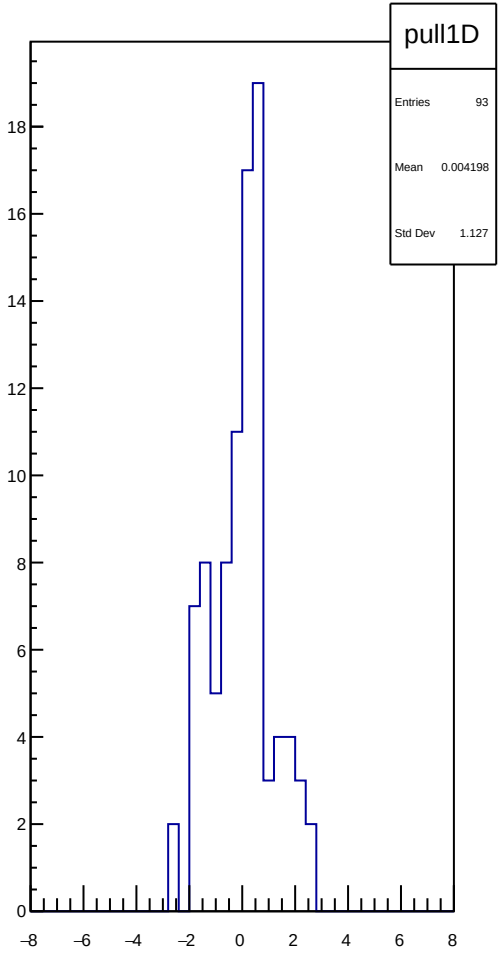

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2250 / 92
p0 6026 ± 4.532
6600
6400
6200
6000
5800
5600

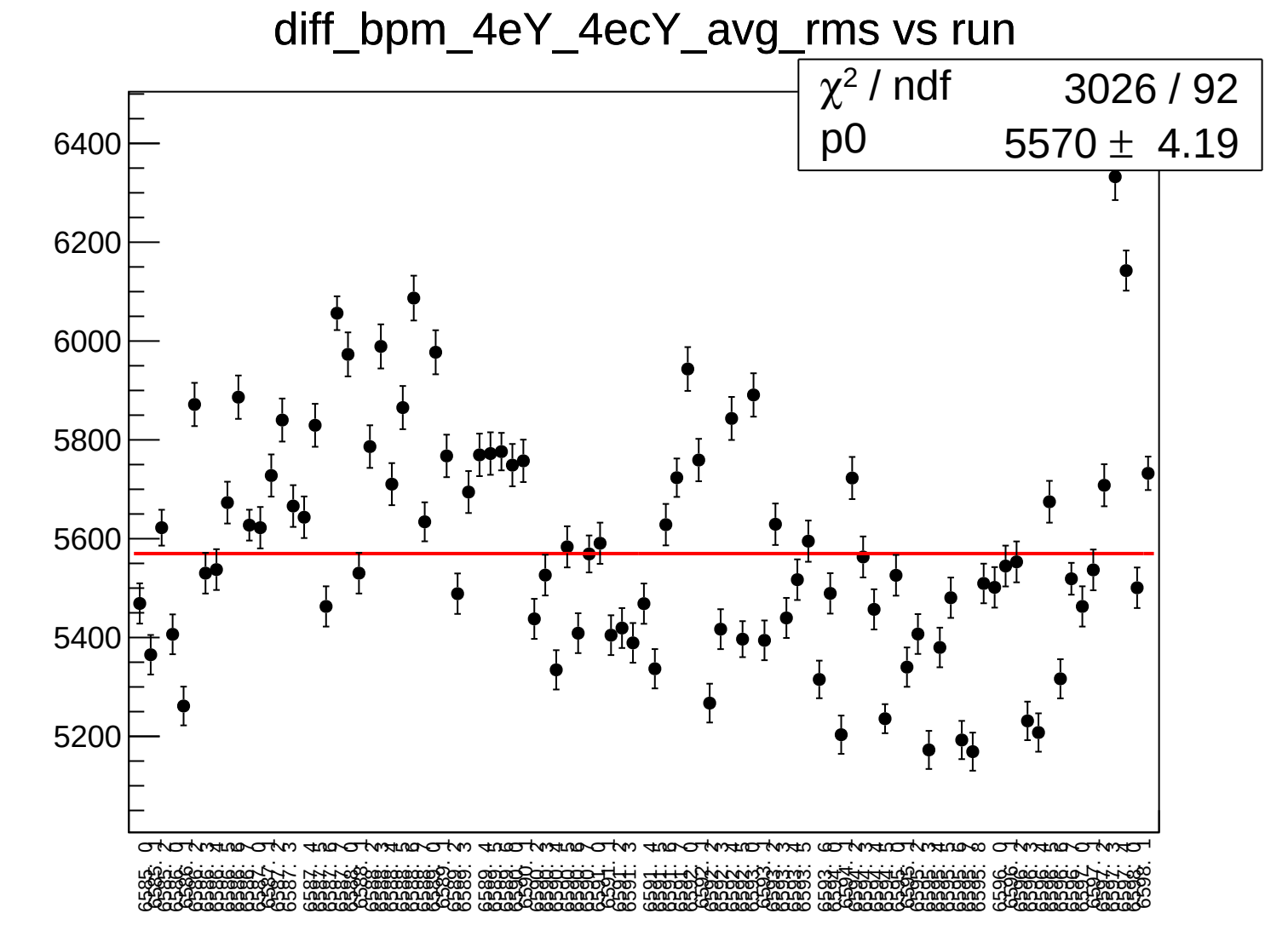

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 113.1 / 92
p0 −0.1052 ± 1.169
pull
Entries 93
Mean 1.694e+04
Std Dev 0

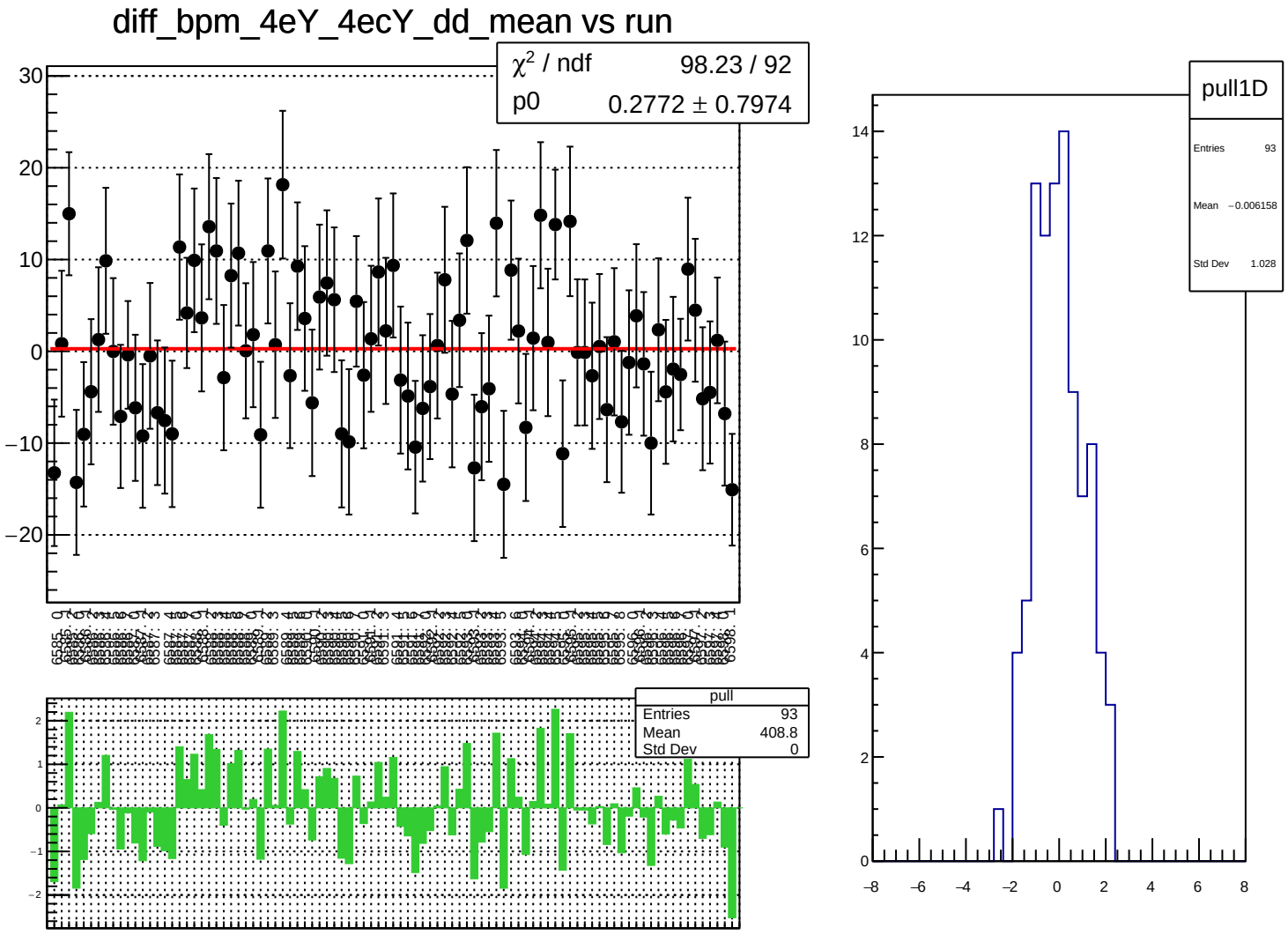

pull1D
Entries 93
Mean −9.121e−05
Std Dev 1.103

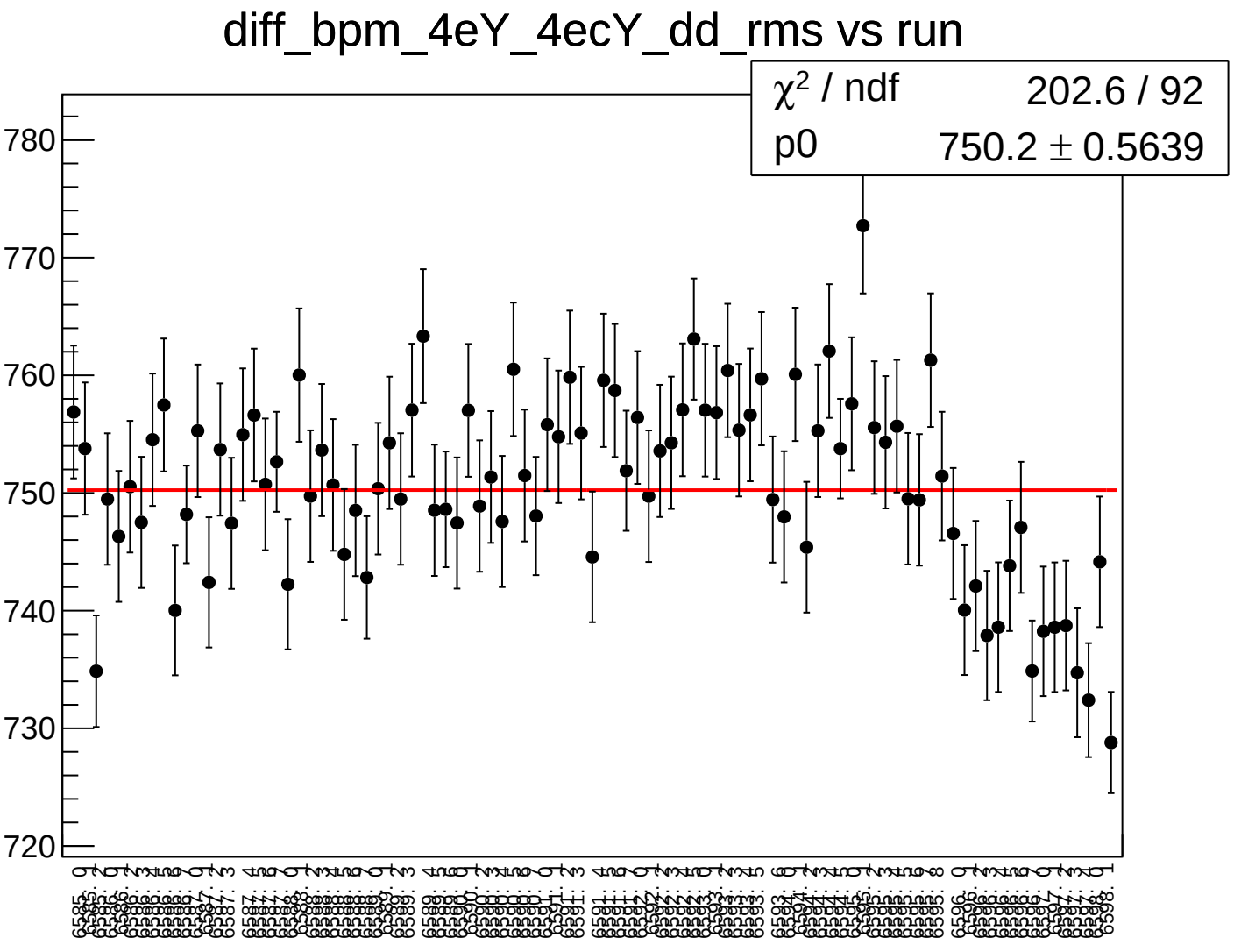

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 9685 / 92
p0 1097 ± 0.8267
1200
1100
1000
900
800

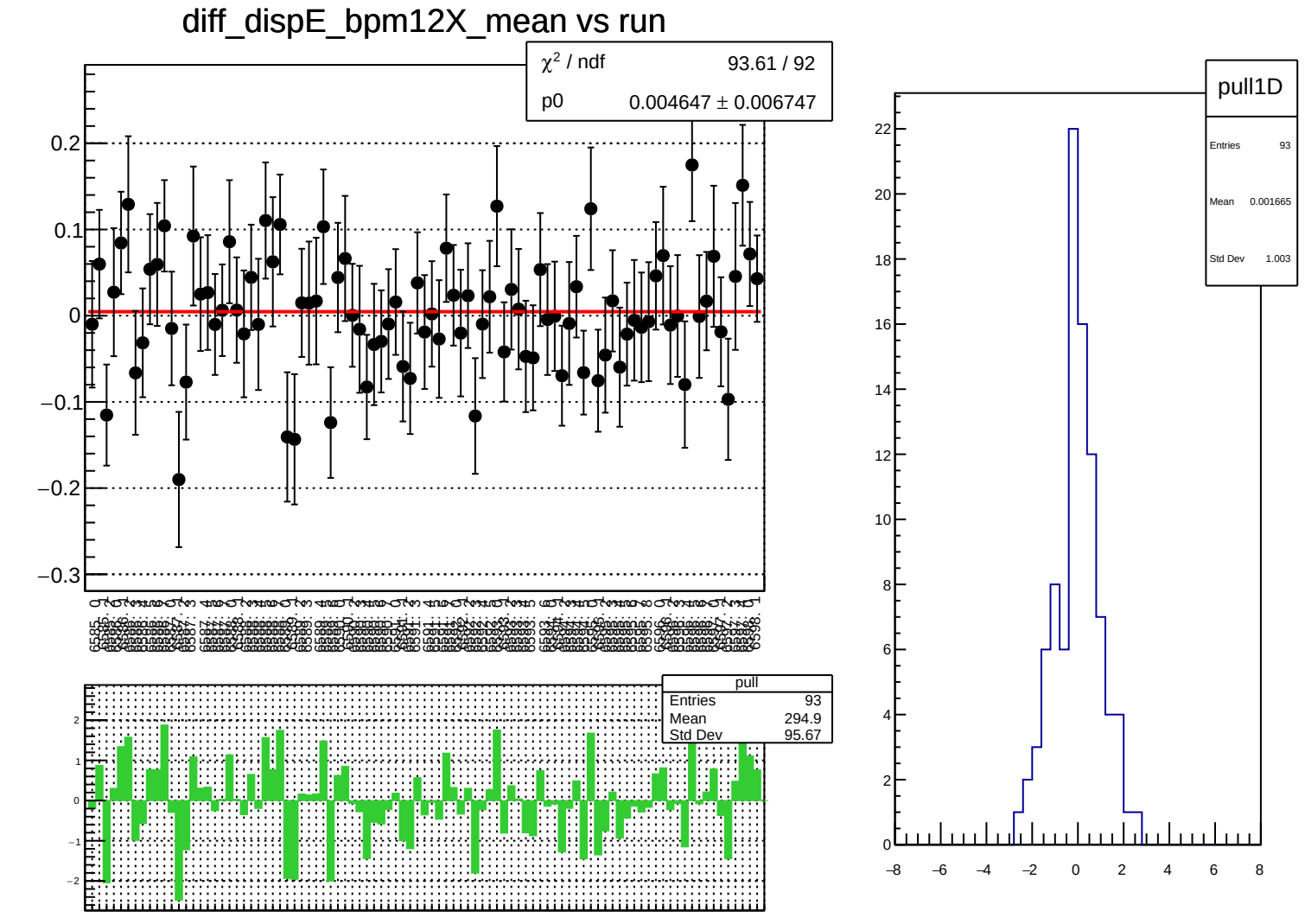

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 118.1 / 92
p0 0.006406 ± 5.925
pull
Entries 93
Mean 528.8
Std Dev 0

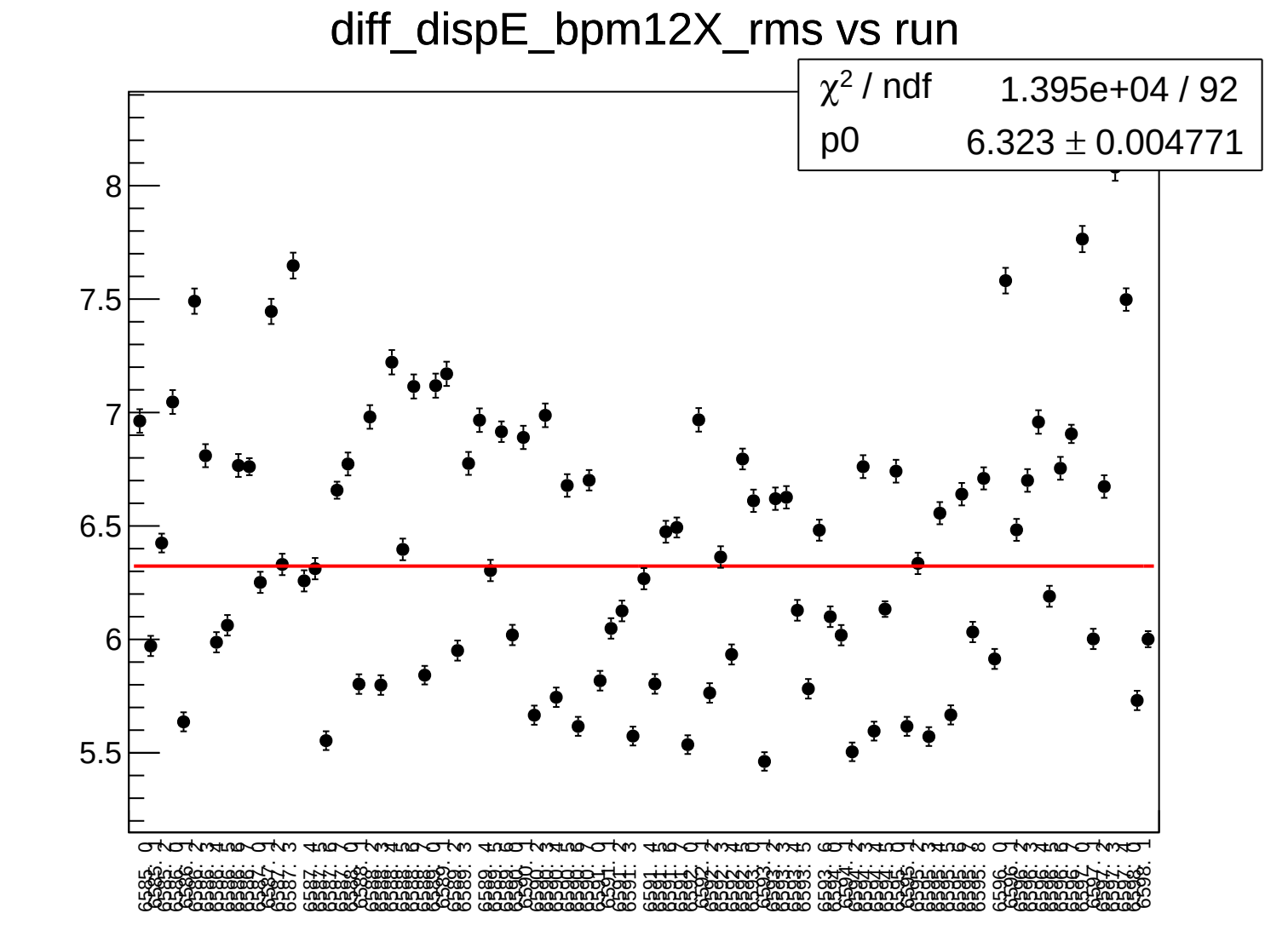

pull1D
Entries 93
Mean 0.004198
Std Dev 1.127

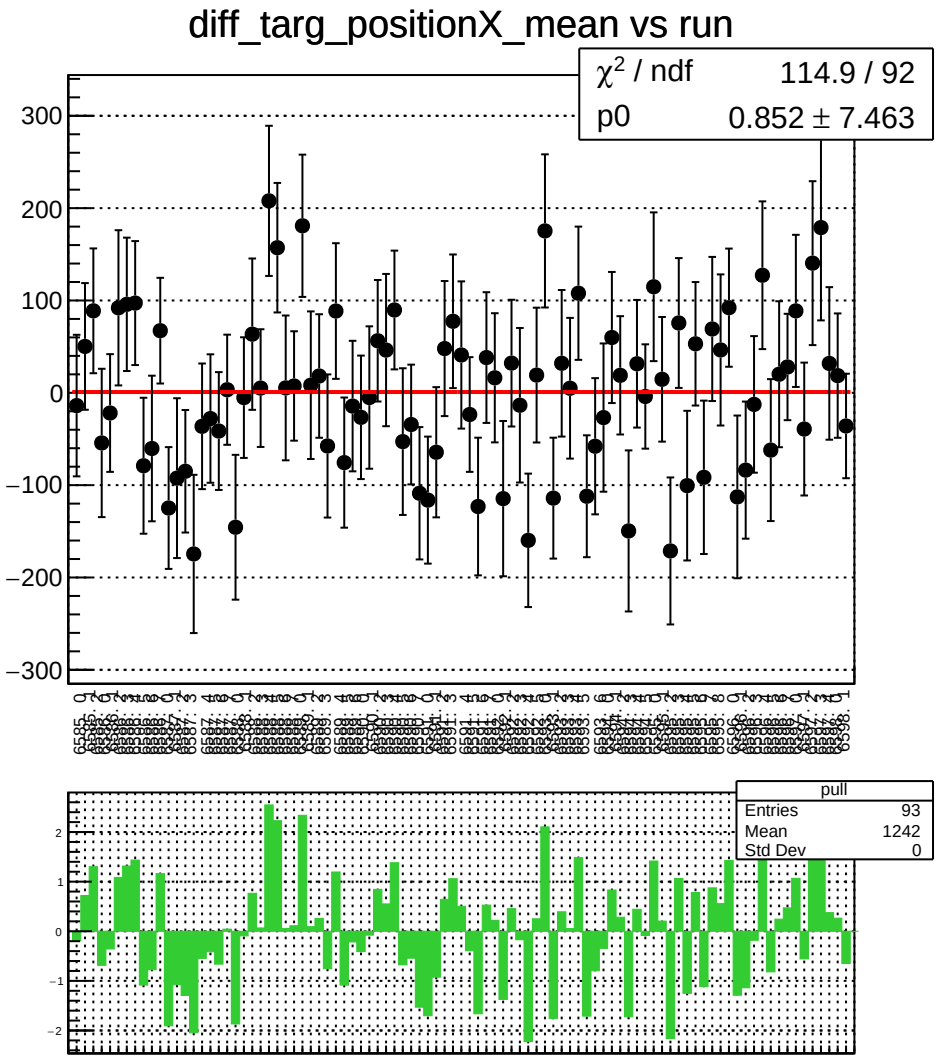

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 3026 / 92
p0 5570 ± 4.19
6400
6200
6000
5800
5600
5400
5200

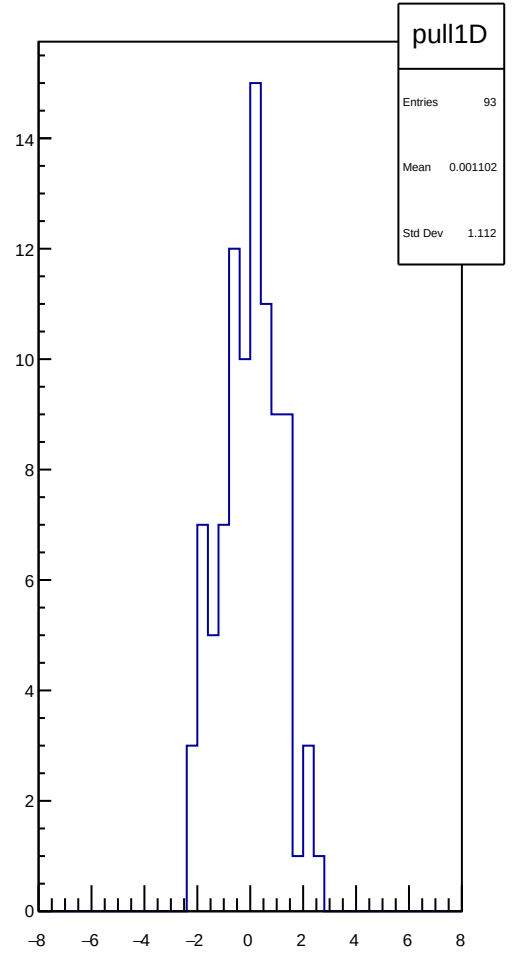

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 98.23 / 92
p0 0.2772 ± 0.7974
pull
Entries 93
Mean 408.8
Std Dev 0
pull1D
Entries 93
Mean −0.006158
Std Dev 1.028

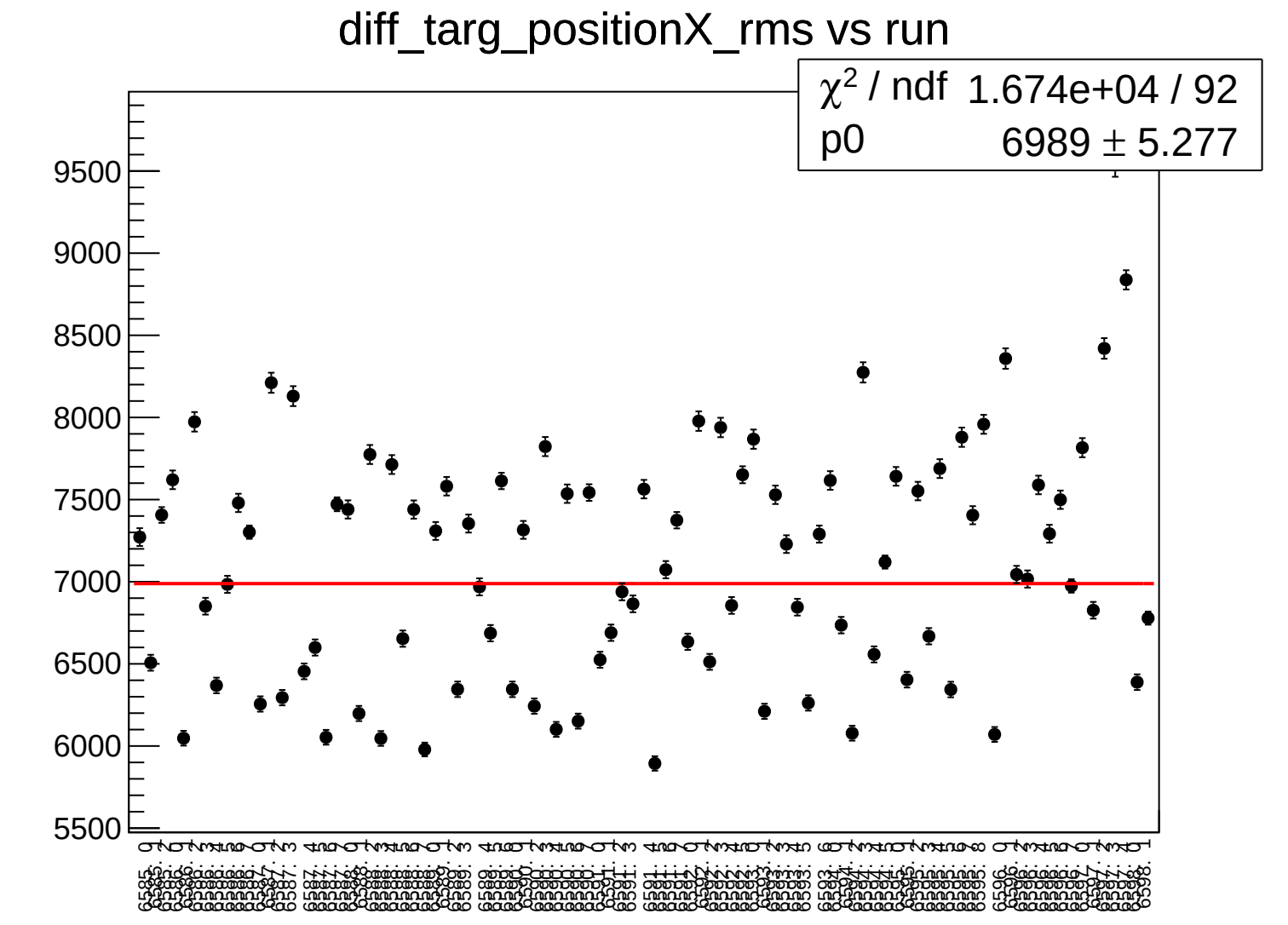

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 202.6 / 92
p0 750.2 ± 0.5639
780
770
760
750
740
730
720

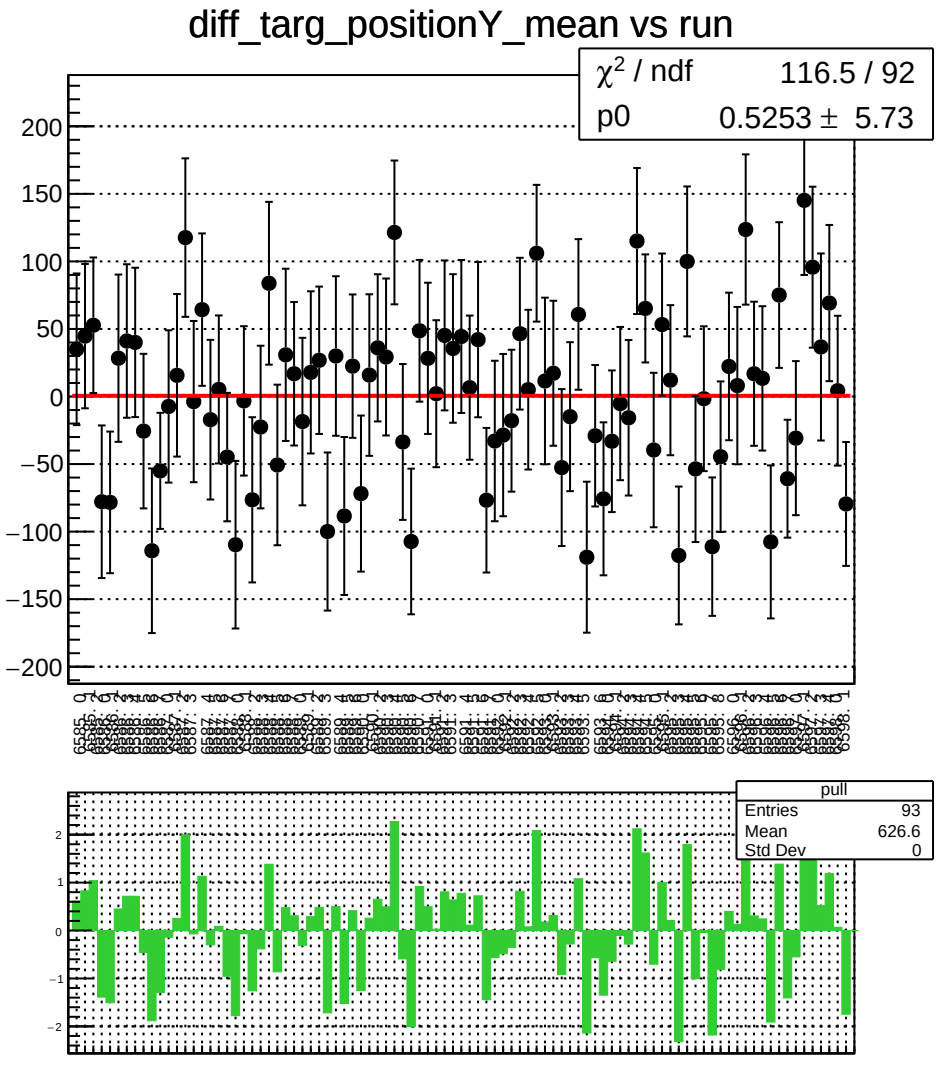

diff_dispE_bpm12X_mean vs run
χ² / ndf 93.61 / 92
p0 0.004647 ± 0.006747
pull
Entries 93
Mean 294.9
Std Dev 95.67
pull1D
Entries 93
Mean 0.001665
Std Dev 1.003

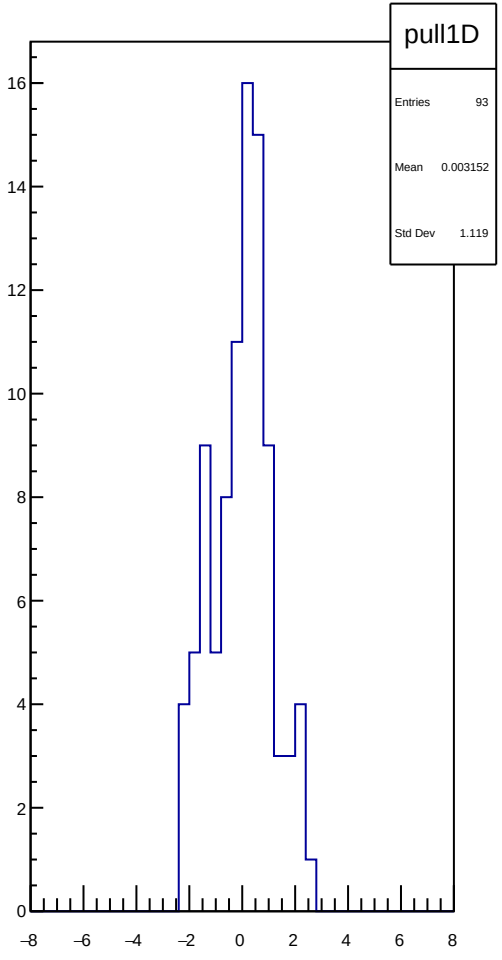

diff_dispE_bpm12X_rms vs run
χ² / ndf 1.395e+04 / 92
p0 6.323 ± 0.004771
8
7.5
7
6.5
6
5.5

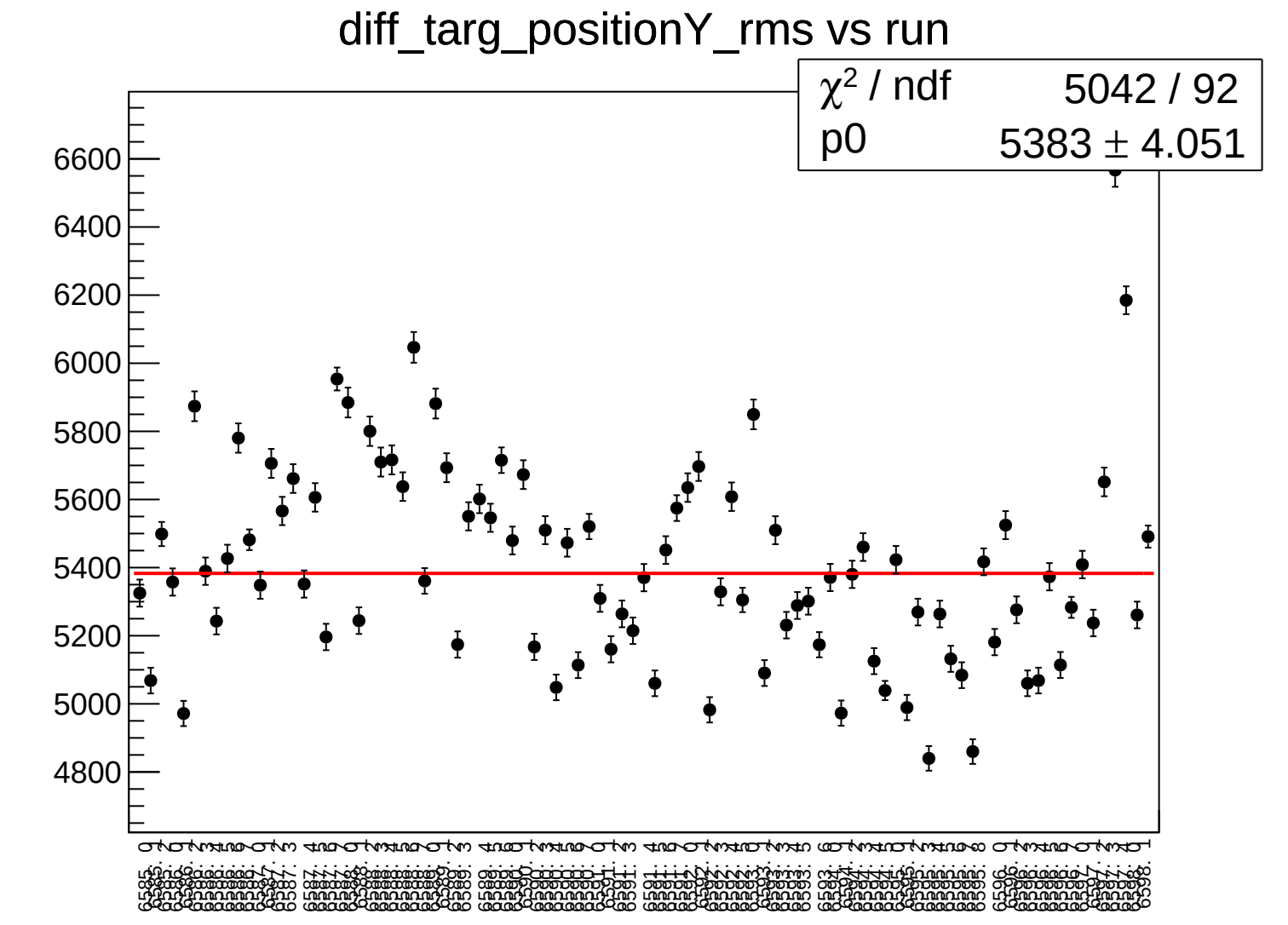

diff_targ_positionX_mean vs run
χ² / ndf 114.9 / 92
p0 0.852 ± 7.463
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 1242
Std Dev 0
2
1
0
−1
−2

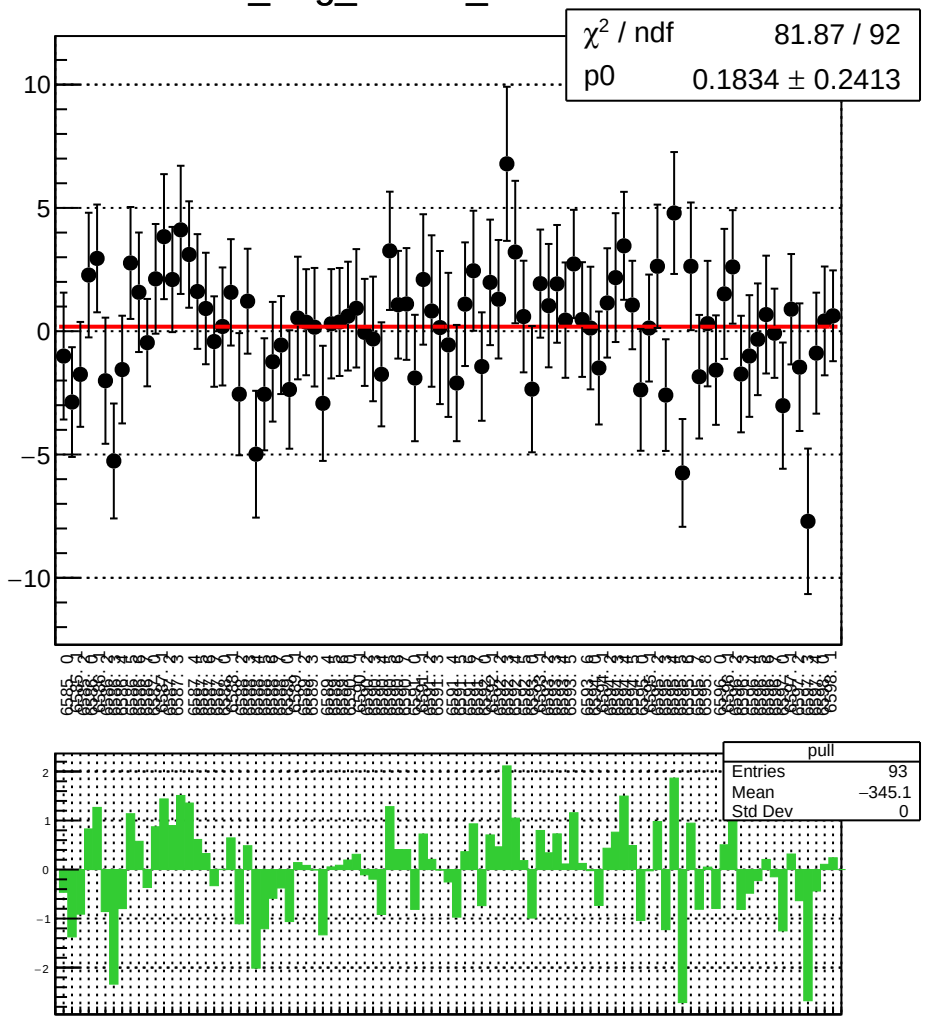

pull1D
Entries 93
Mean 0.001102
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

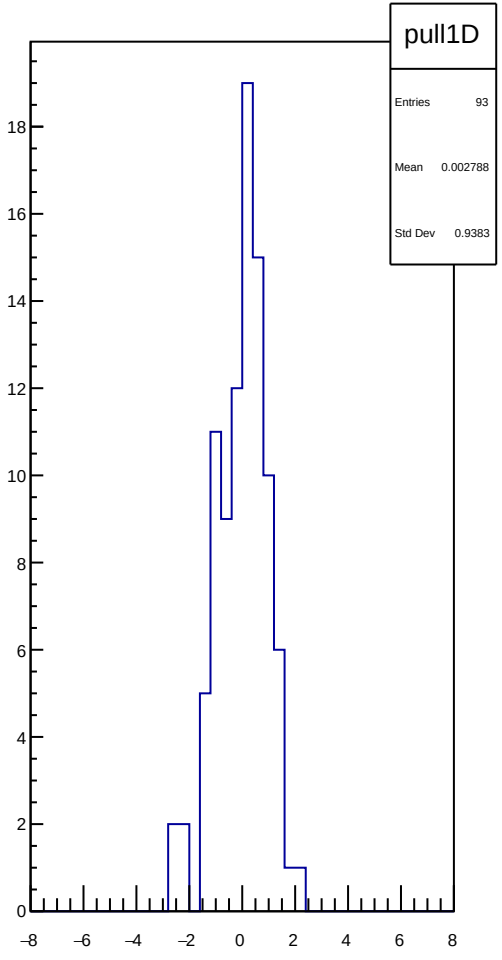

diff_targ_positionX_rms vs run
χ^2 / ndf 1.674e+04 / 92
p0 6989 ± 5.277
9500
9000
8500
8000
7500
7000
6500
6000
5500

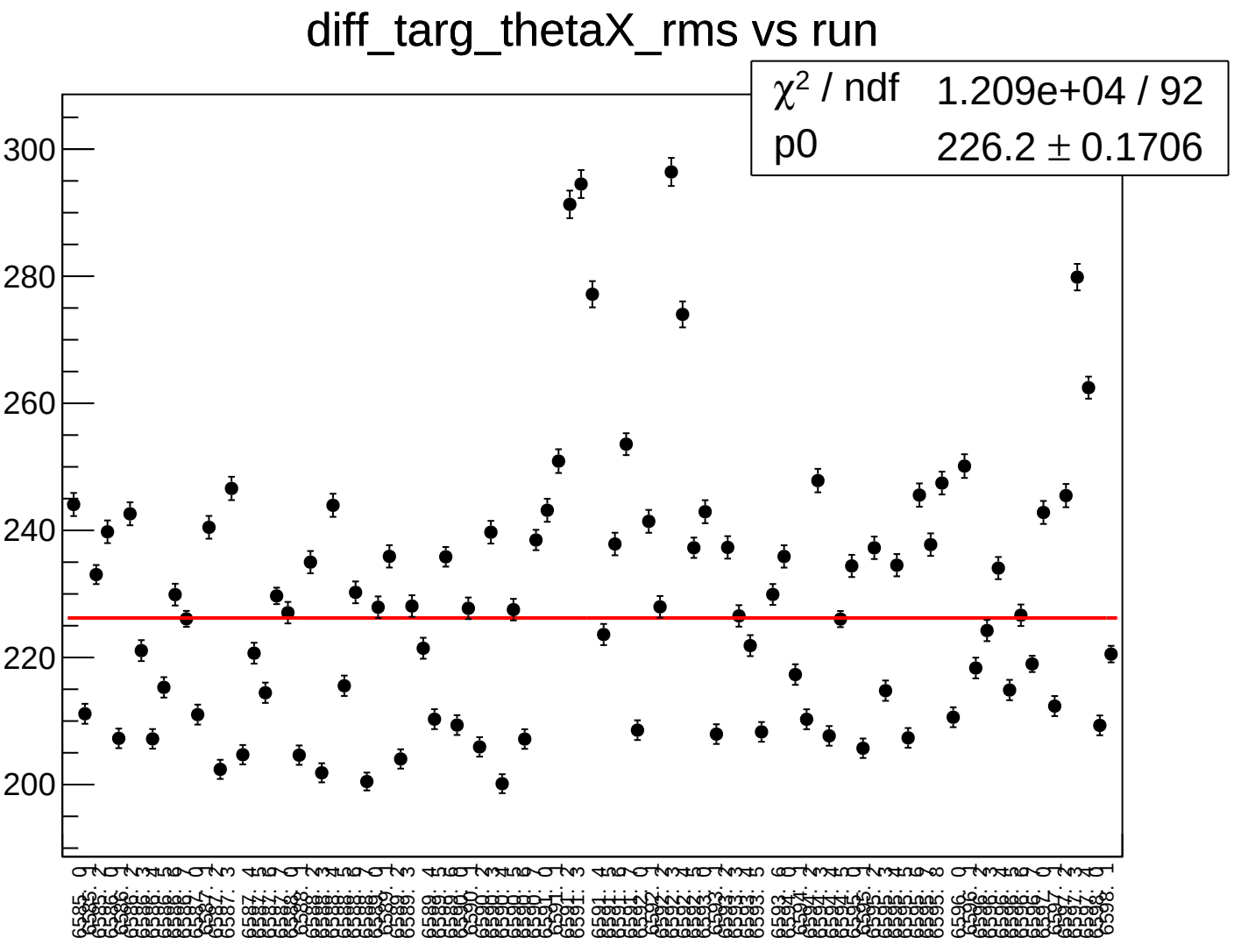

diff_targ_positionY_mean vs run
χ² / ndf 116.5 / 92
p0 0.5253 ± 5.73
pull
Entries 93
Mean 626.6
Std Dev 0

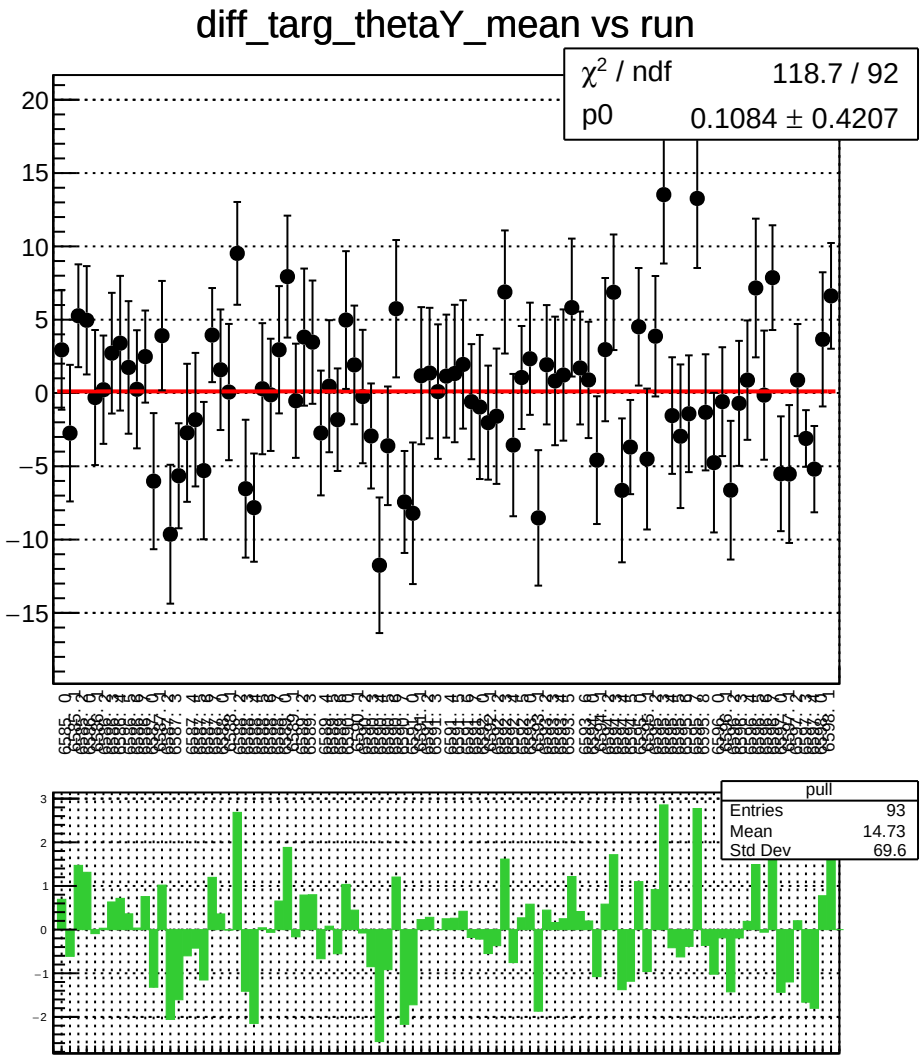

pull1D
Entries 93
Mean 0.003152
Std Dev 1.119

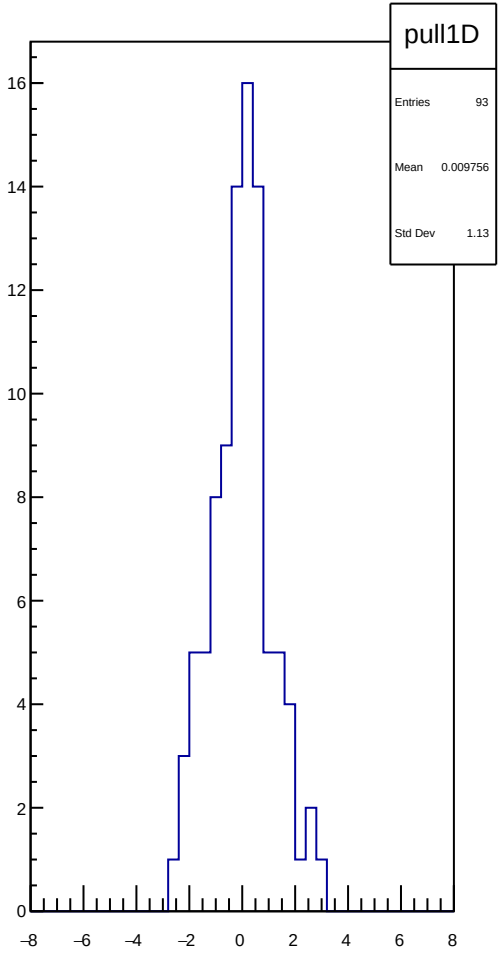

diff_targ_positionY_rms vs run
χ² / ndf 5042 / 92
p0 5383 ± 4.051
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

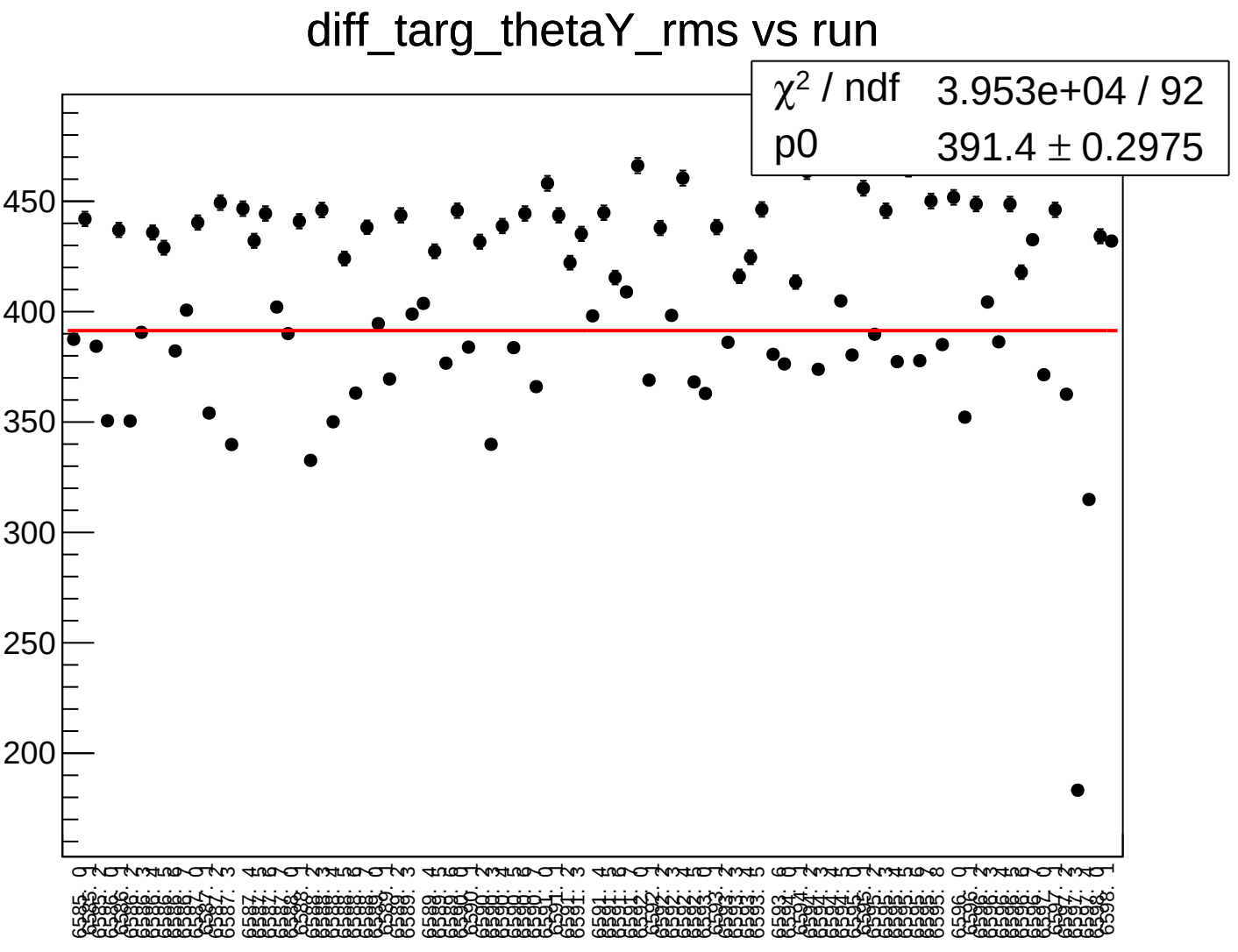

diff_targ_thetaX_mean vs run
χ² / ndf 81.87 / 92
p0 0.1834 ± 0.2413
pull
Entries 93
Mean −345.1
Std Dev 0

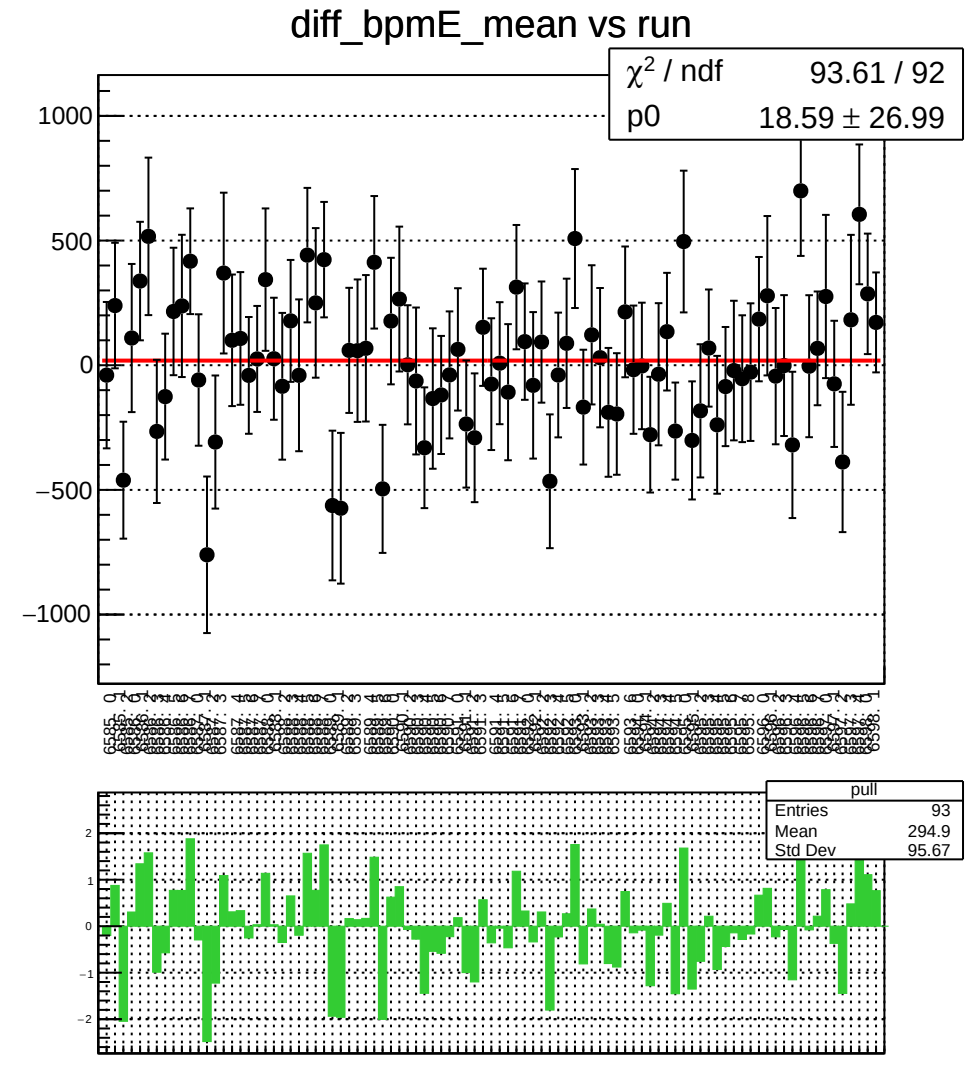

pull1D
Entries 93
Mean 0.002788
Std Dev 0.9383

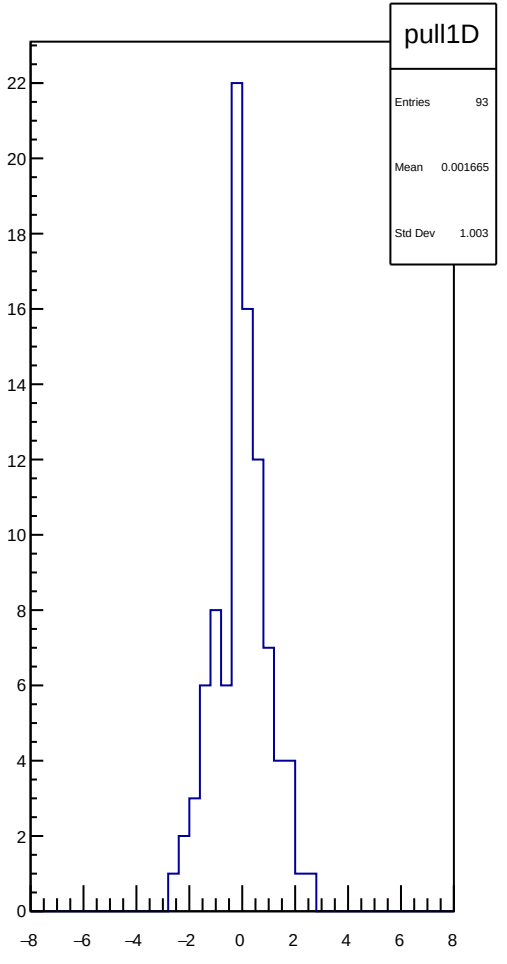

diff_targ_thetaX_rms vs run
χ² / ndf 1.209e+04 / 92
p0 226.2 ± 0.1706
300
280
260
240
220
200

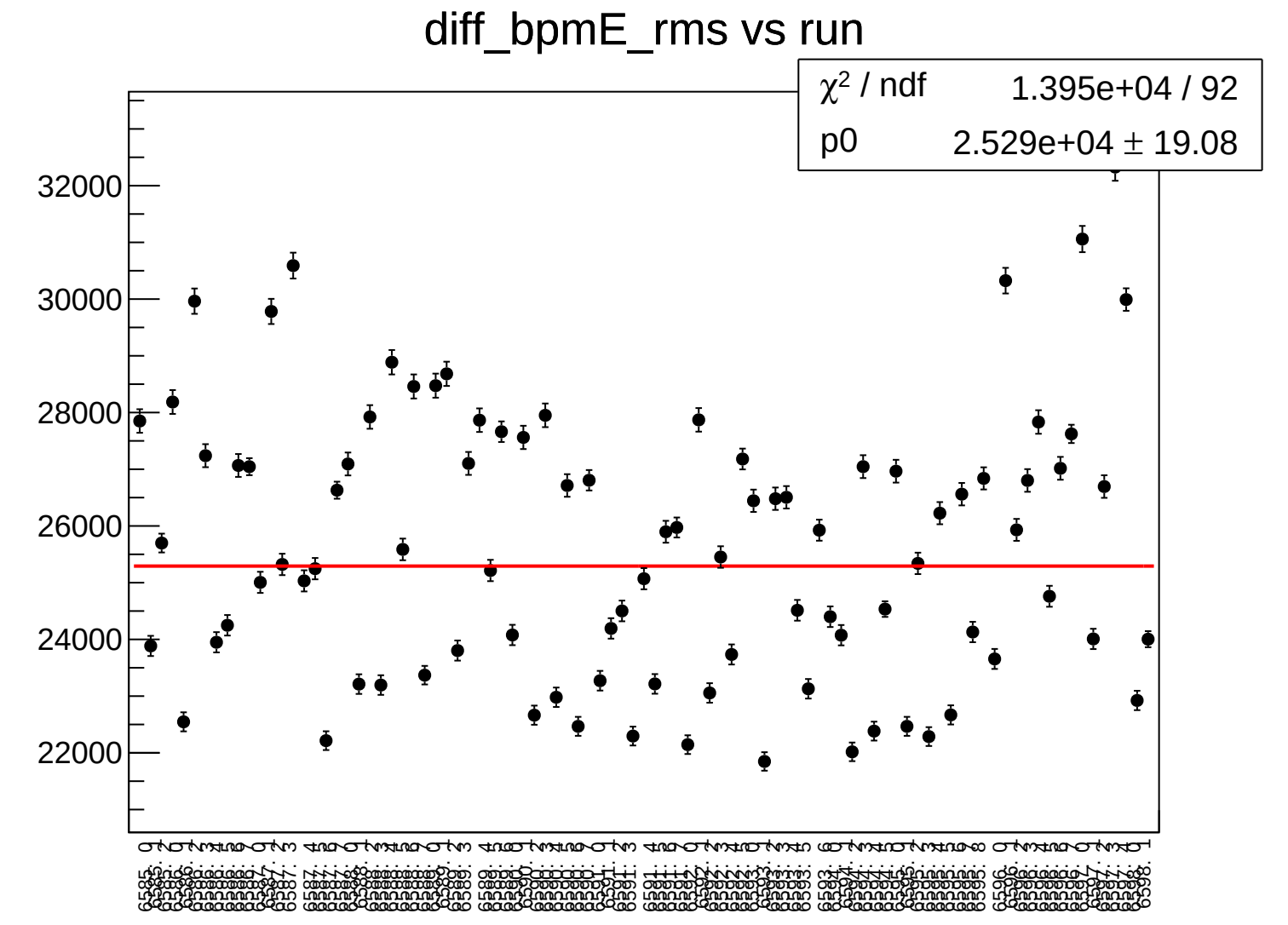

diff_targ_thetaY_mean vs run
χ² / ndf 118.7 / 92
p0 0.1084 ± 0.4207
pull
Entries 93
Mean 14.73
Std Dev 69.6

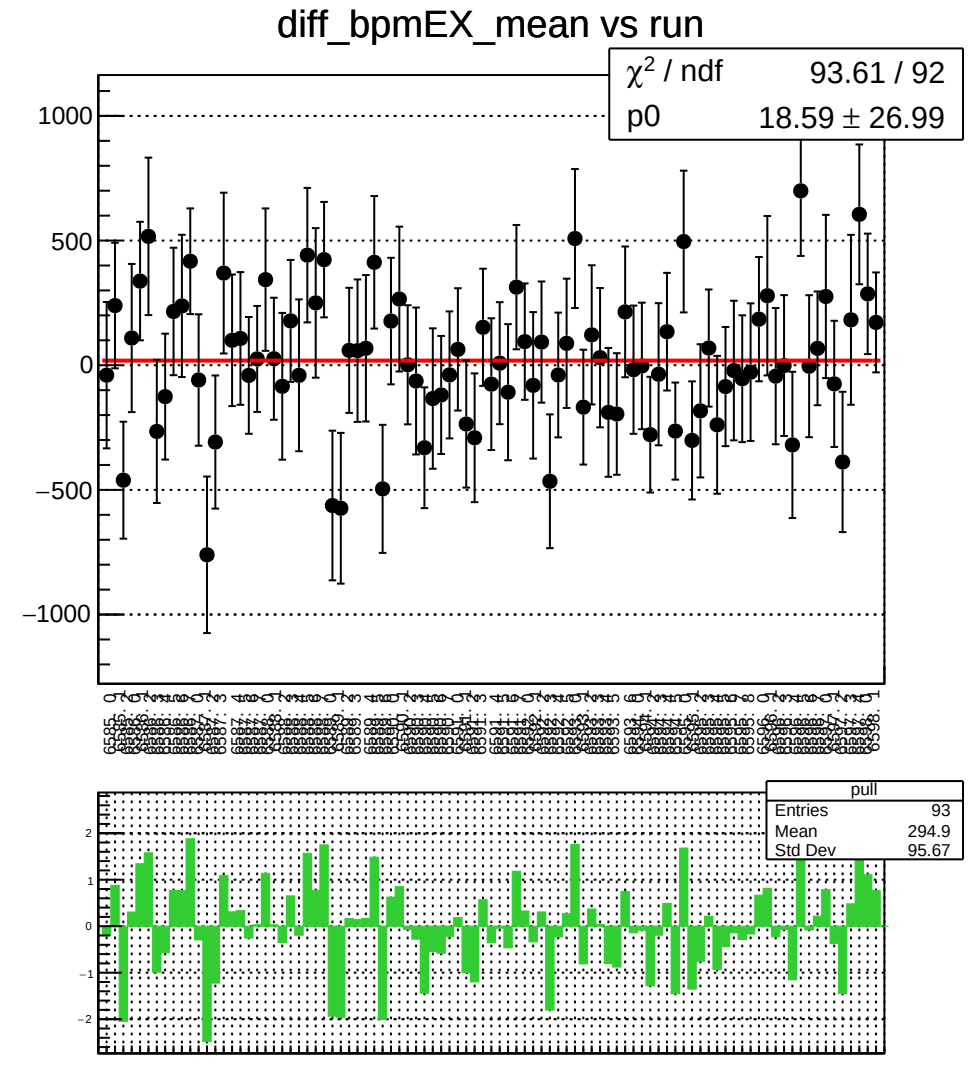

pull1D
Entries 93
Mean 0.009756
Std Dev 1.13

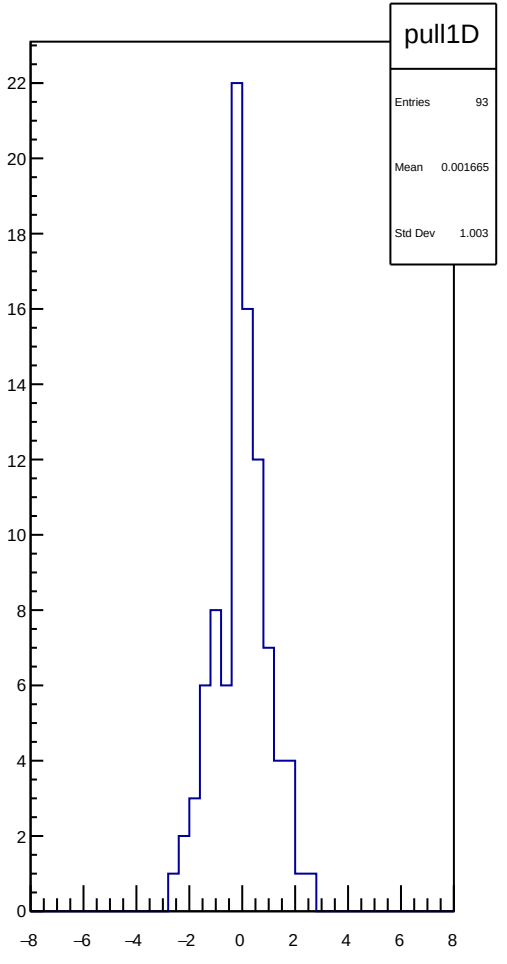

diff_targ_thetaY_rms vs run
χ² / ndf 3.953e+04 / 92
p0 391.4 ± 0.2975
450
400
350
300
250
200

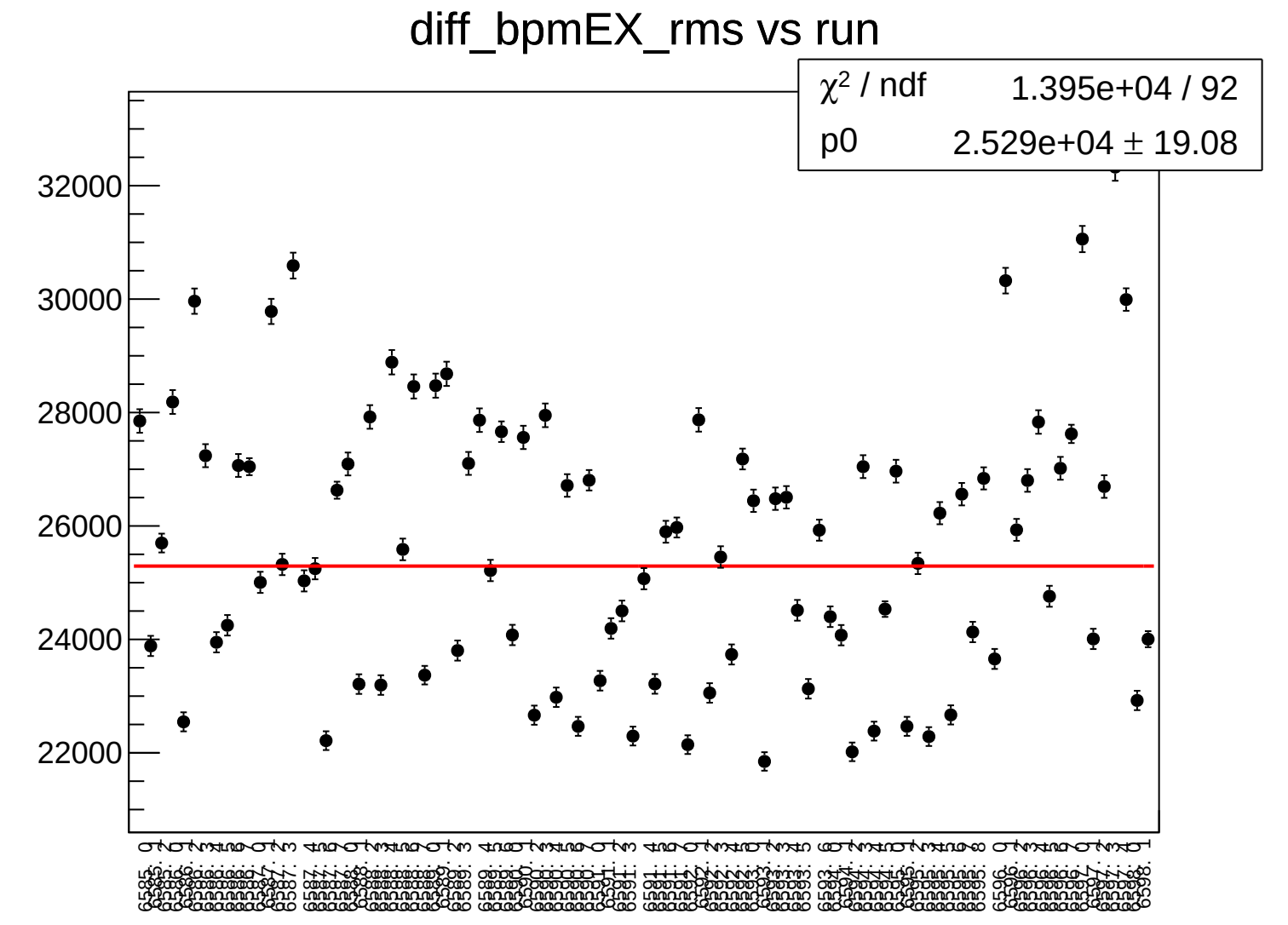

diff_bpmE_mean vs run
χ² / ndf 93.61 / 92
p0 18.59 ± 26.99
1000
500
0
−500
−1000
pull
Entries 93
Mean 294.9
Std Dev 95.67
2
1
0
−1
−2

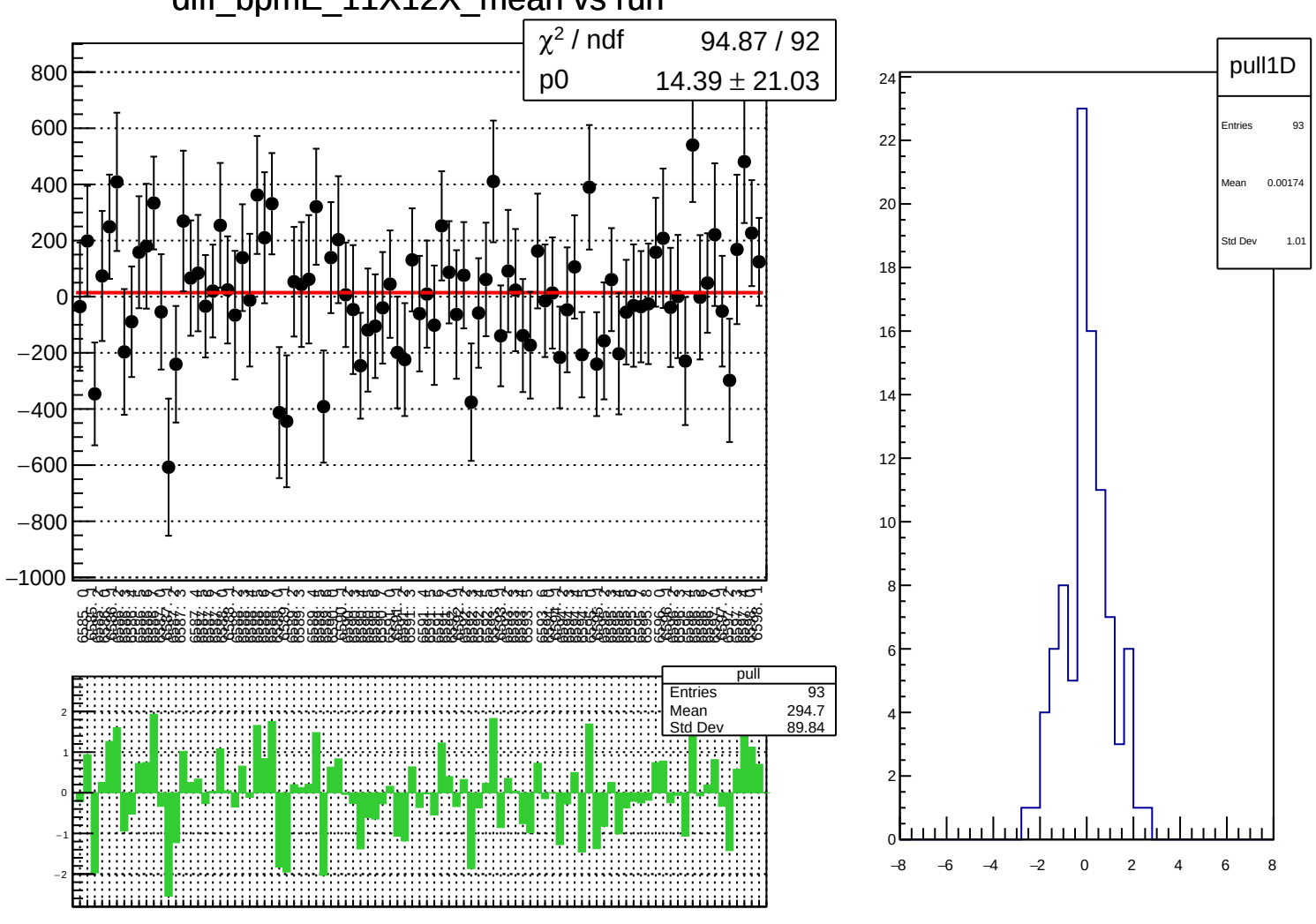

pull1D
Entries 93
Mean 0.001665
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

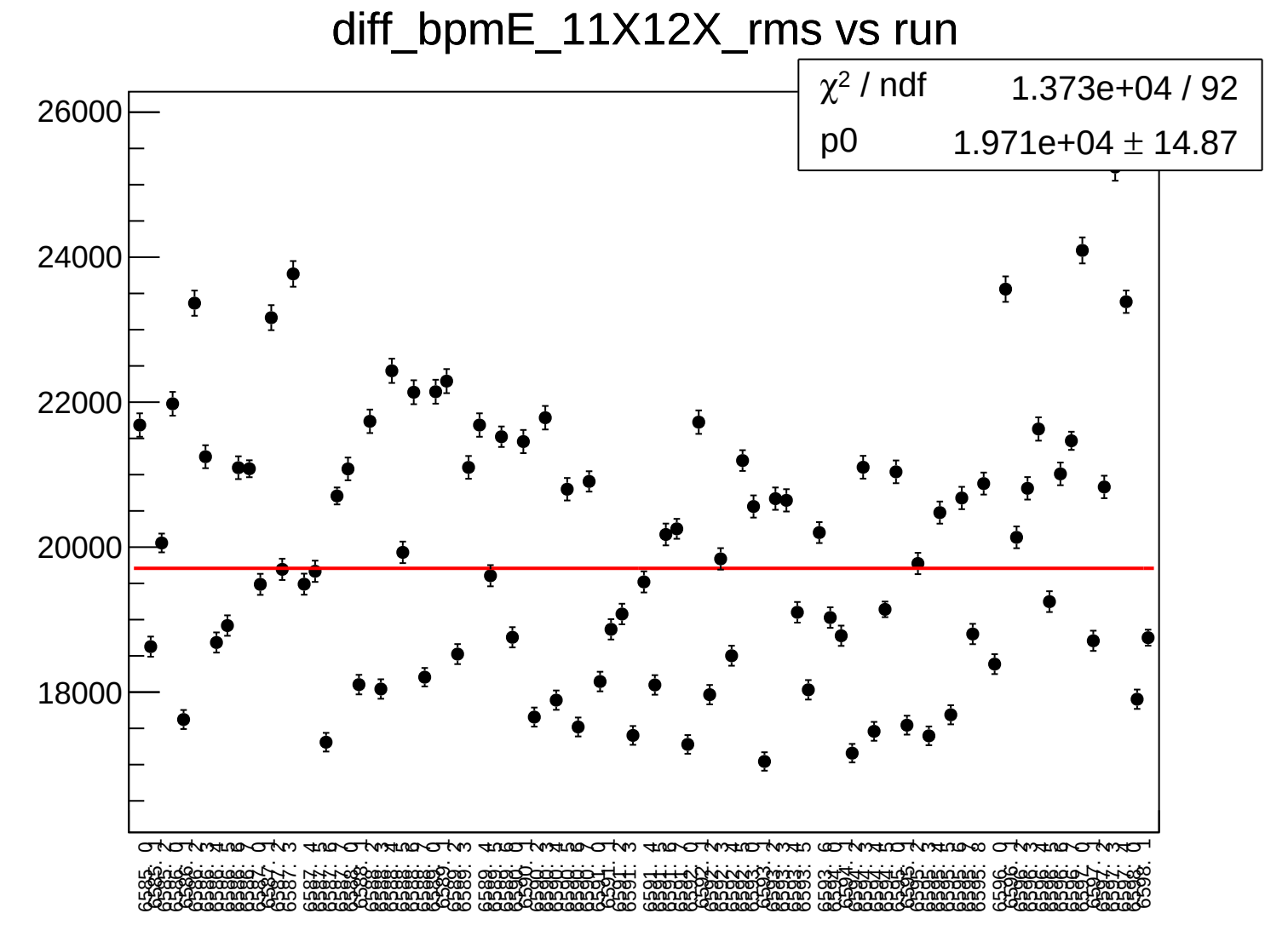

diff_bpmE_rms vs run
χ² / ndf 1.395e+04 / 92
p0 2.529e+04 ± 19.08
32000
30000
28000
26000
24000
22000

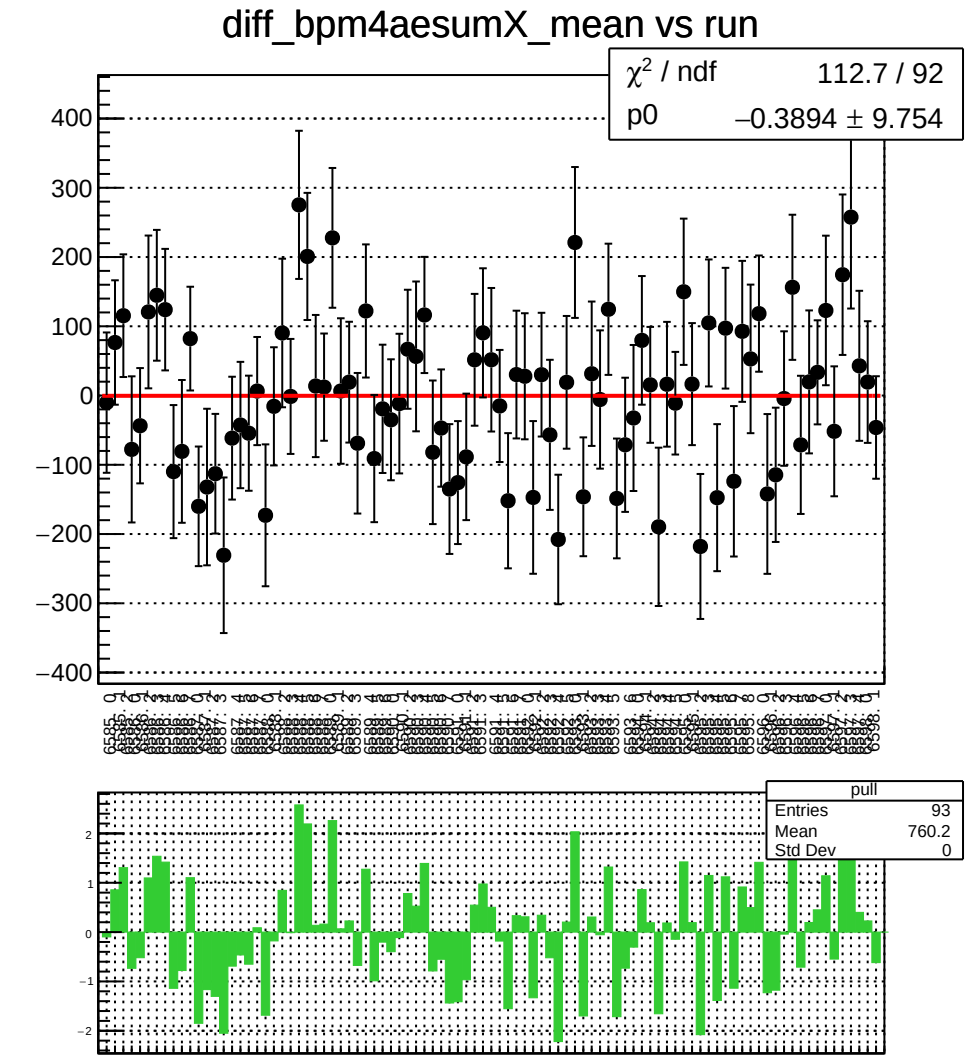

diff_bpmEX_mean vs run
χ² / ndf 93.61 / 92
p0 18.59 ± 26.99
1000
500
0
−500
−1000
pull
Entries 93
Mean 294.9
Std Dev 95.67
2
1
0
−1
−2

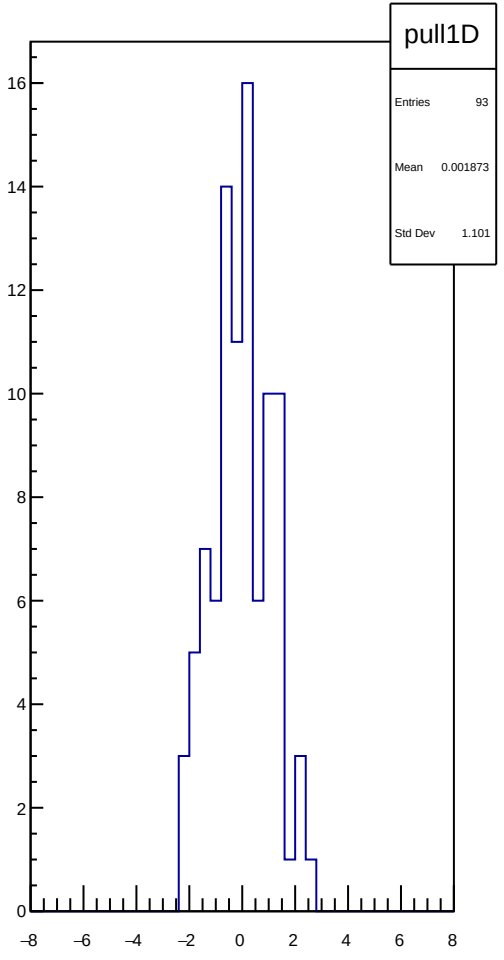

pull1D
Entries 93
Mean 0.001665
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

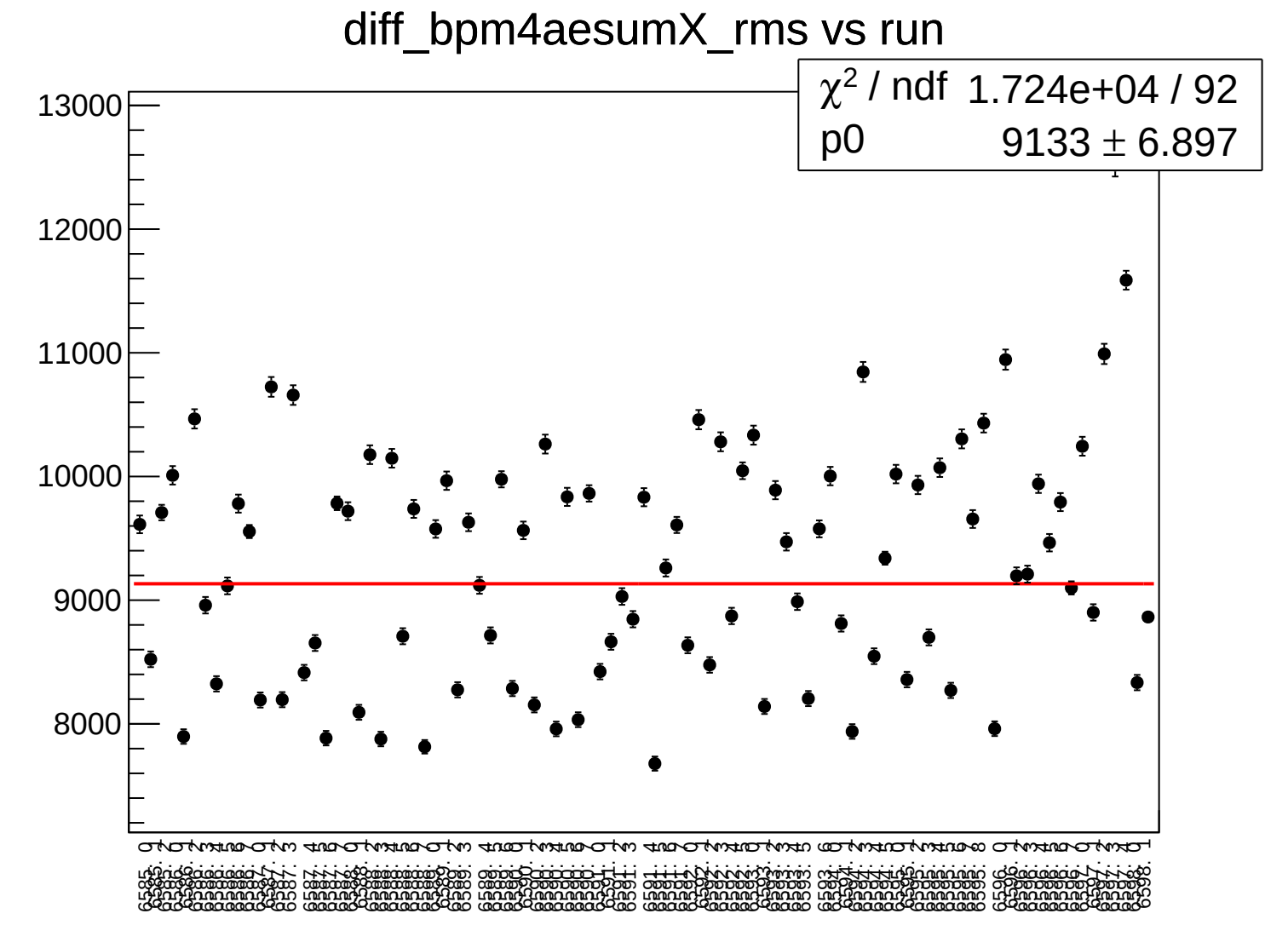

diff_bpmEX_rms vs run
χ² / ndf 1.395e+04 / 92
p0 2.529e+04 ± 19.08
32000
30000
28000
26000
24000
22000

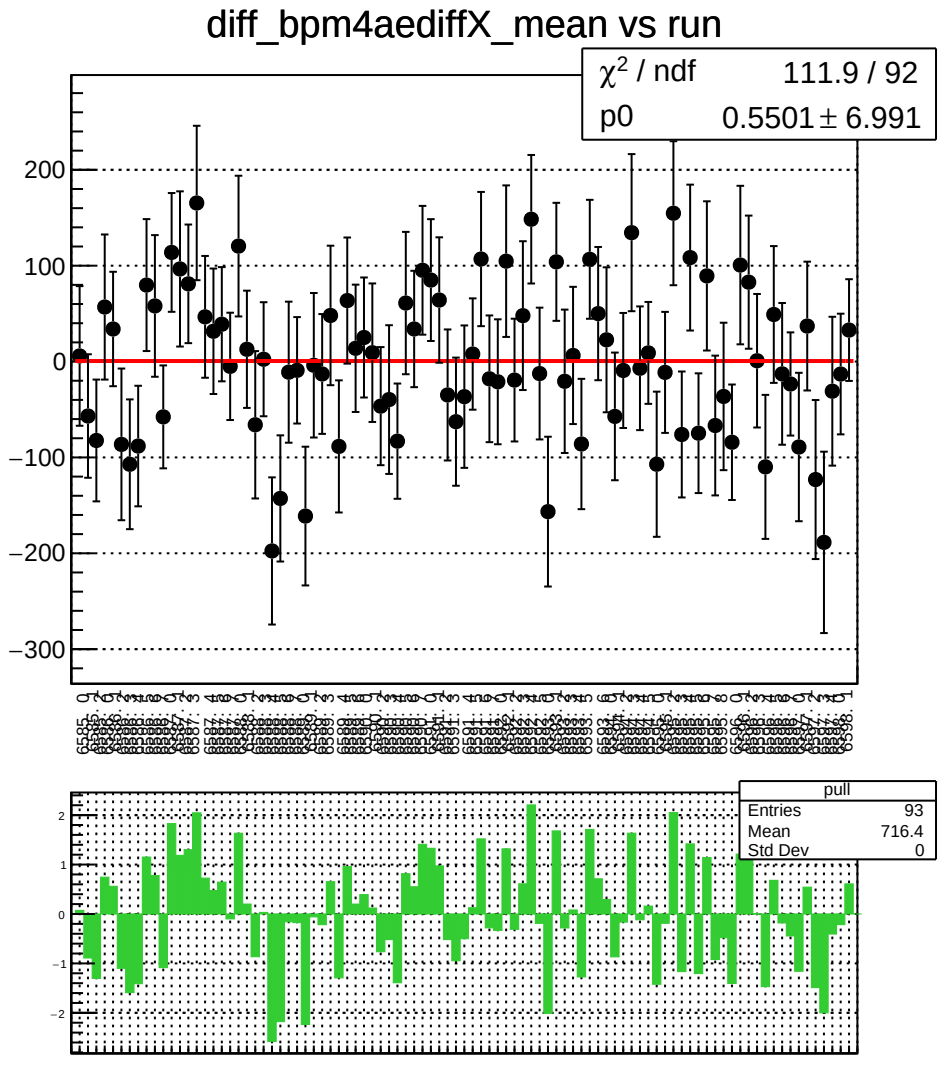

diff_bpmE_11X12X_mean vs run
χ² / ndf 94.87 / 92
p0 14.39 ± 21.03
pull
Entries 93
Mean 294.7
Std Dev 89.84
pull1D
Entries 93
Mean 0.00174
Std Dev 1.01

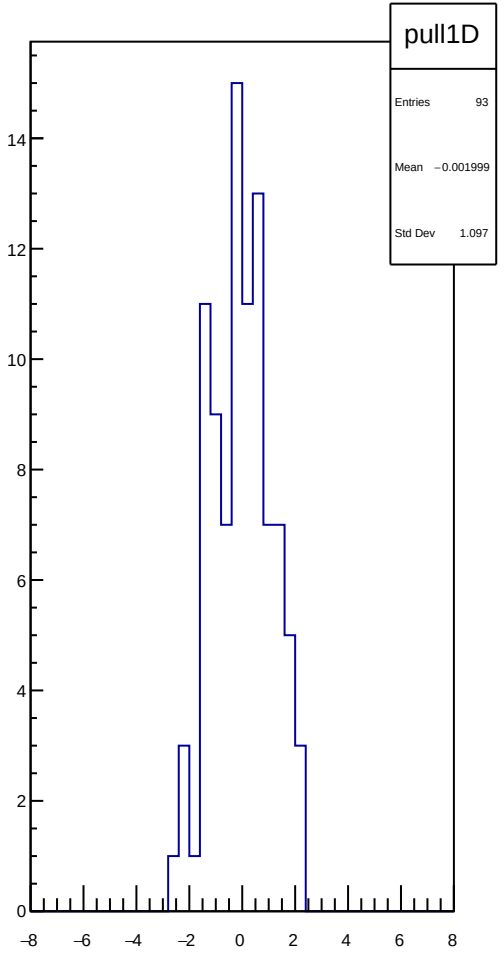

diff_bpmE_11X12X_rms vs run
χ² / ndf 1.373e+04 / 92
p0 1.971e+04 ± 14.87
26000
24000
22000
20000
18000

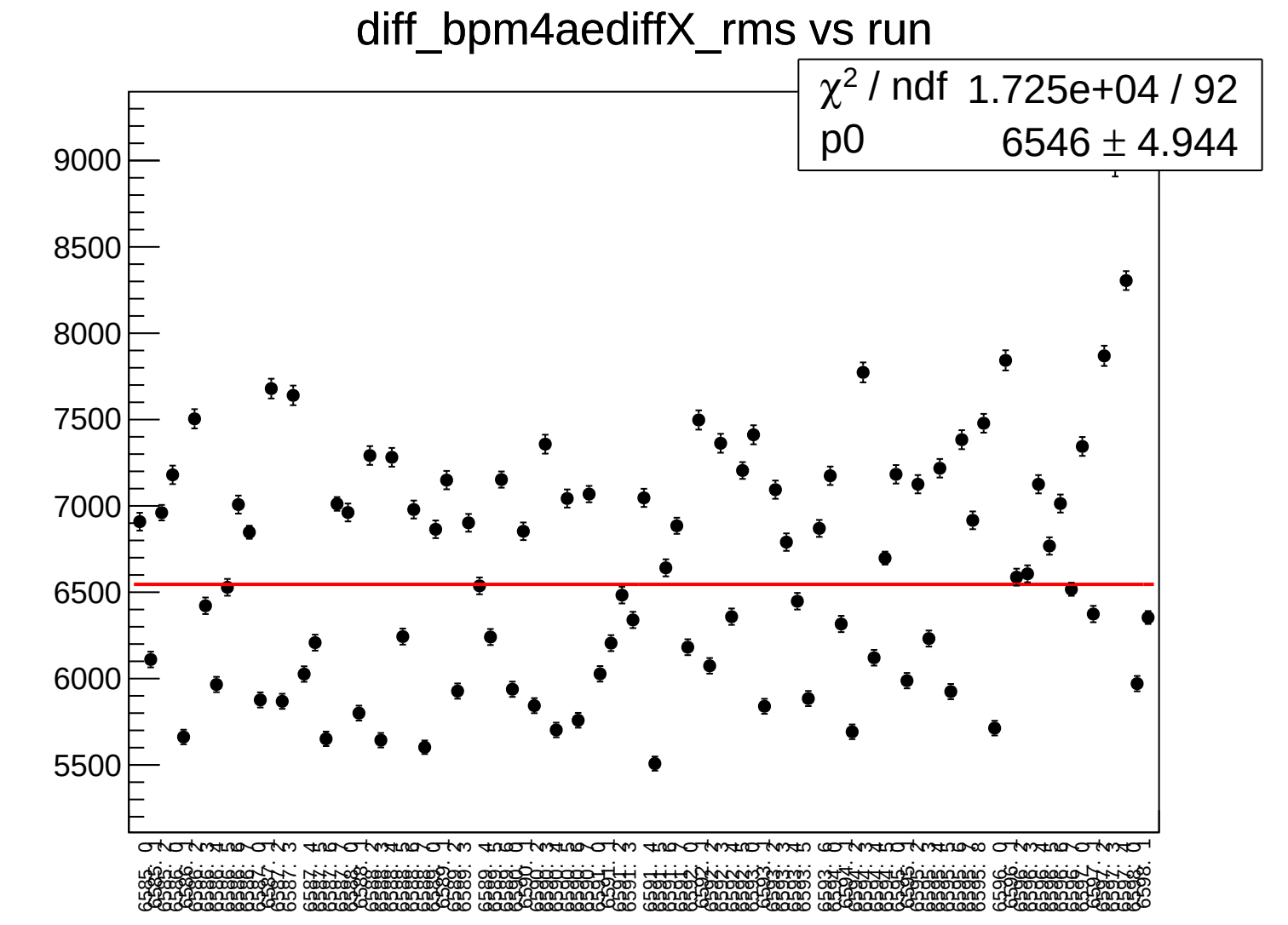

diff_bpm4aesumX_mean vs run
χ² / ndf 112.7 / 92
p0 −0.3894 ± 9.754
pull
Entries 93
Mean 760.2
Std Dev 0

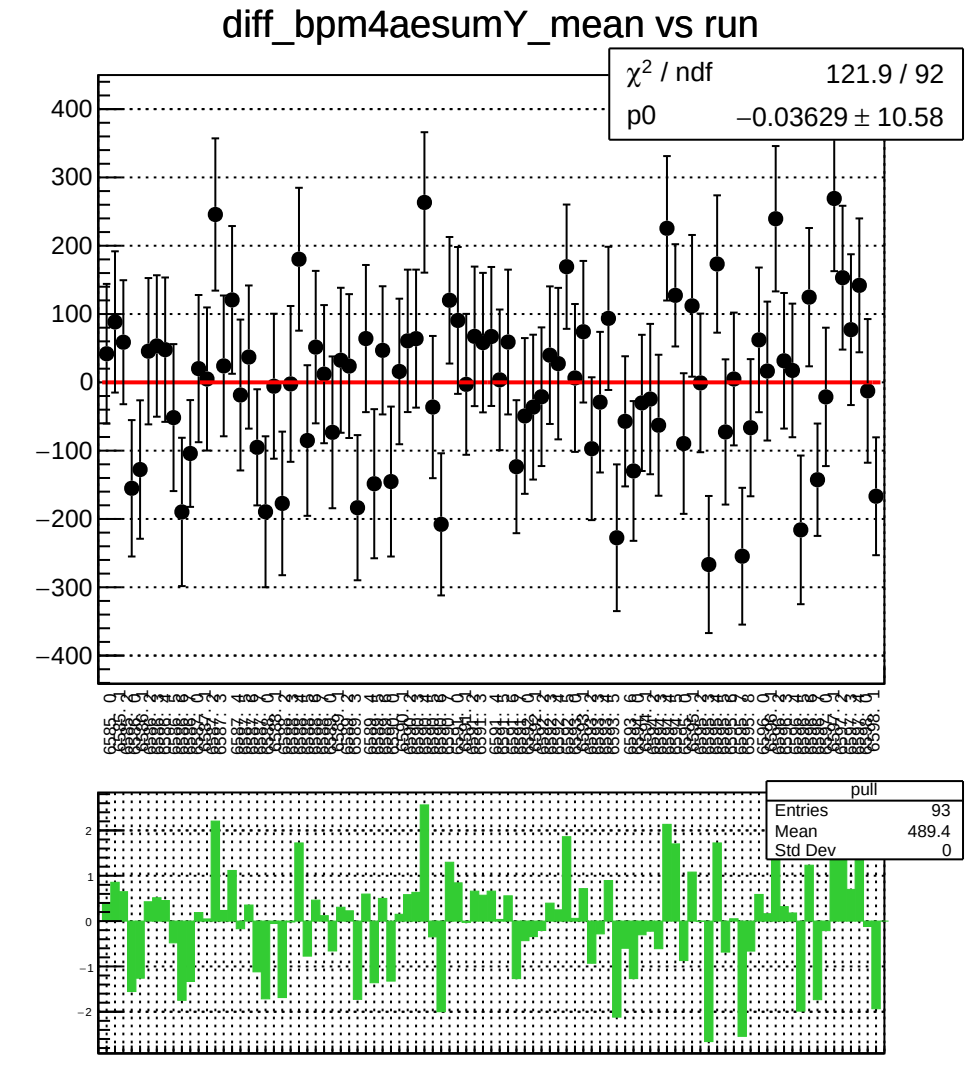

pull1D
Entries 93
Mean 0.001873
Std Dev 1.101

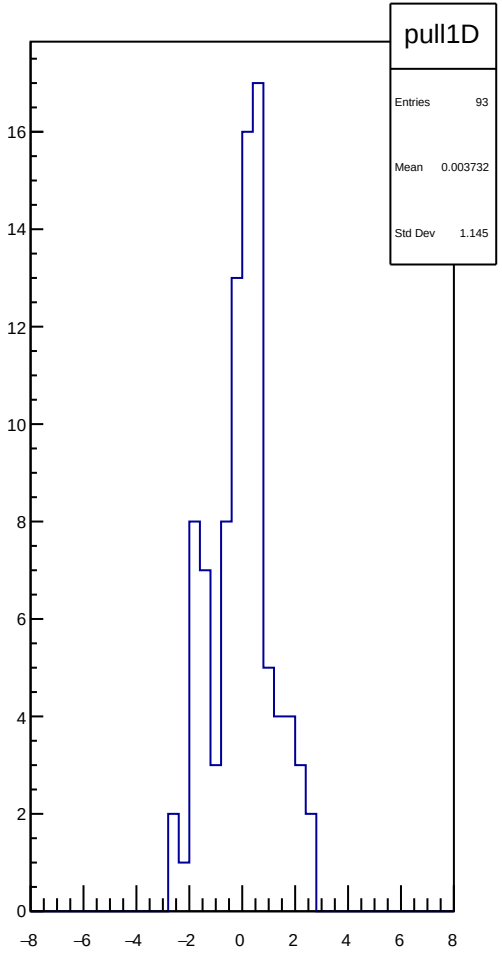

diff_bpm4aesumX_rms vs run
χ² / ndf 1.724e+04 / 92
p0 9133 ± 6.897
13000
12000
11000
10000
9000
8000

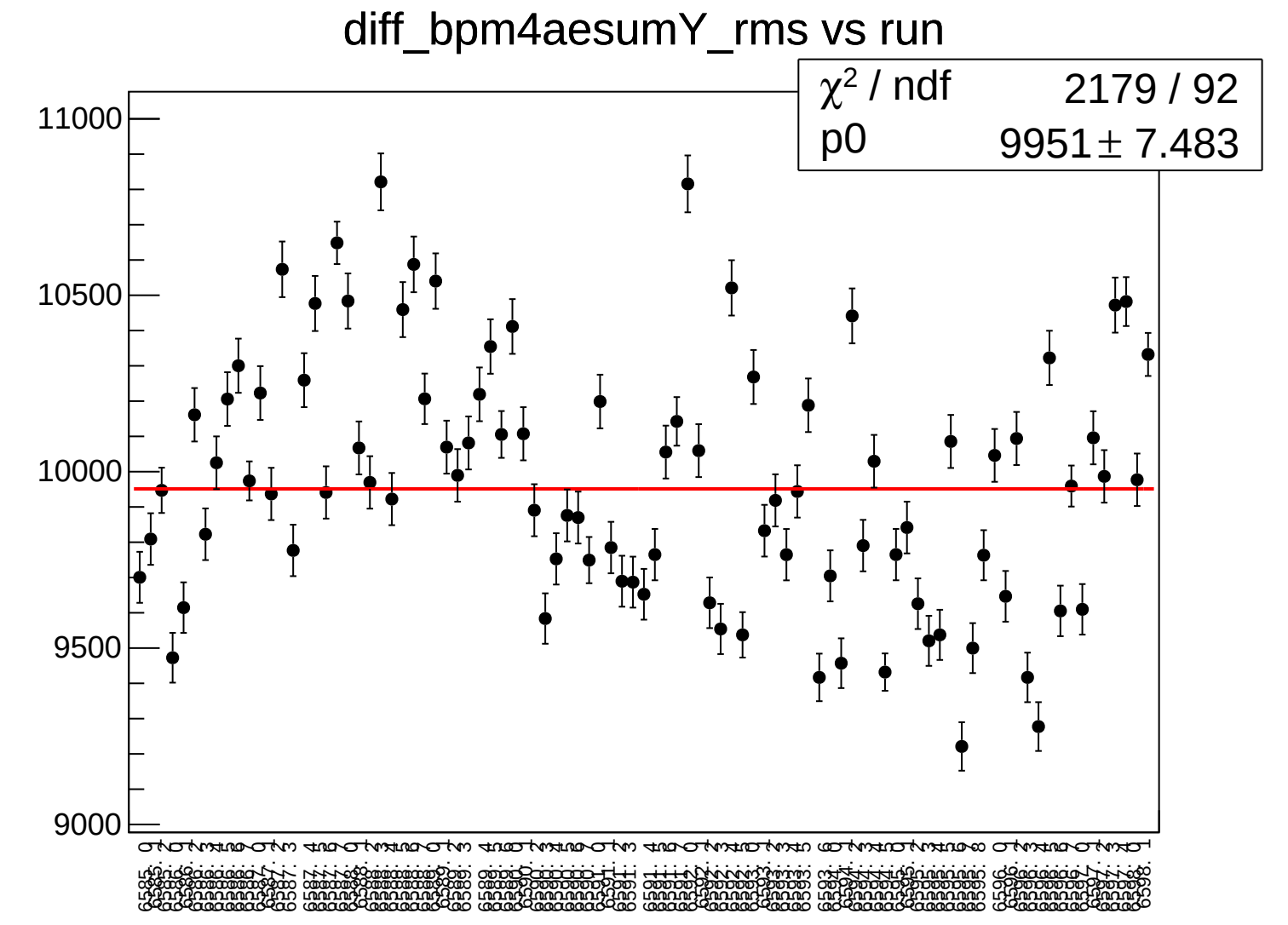

diff_bpm4aediffX_mean vs run
χ² / ndf 111.9 / 92
p0 0.5501 ± 6.991
200
100
0
−100
−200
−300
pull
Entries 93
Mean 716.4
Std Dev 0
2
1
0
−1
−2

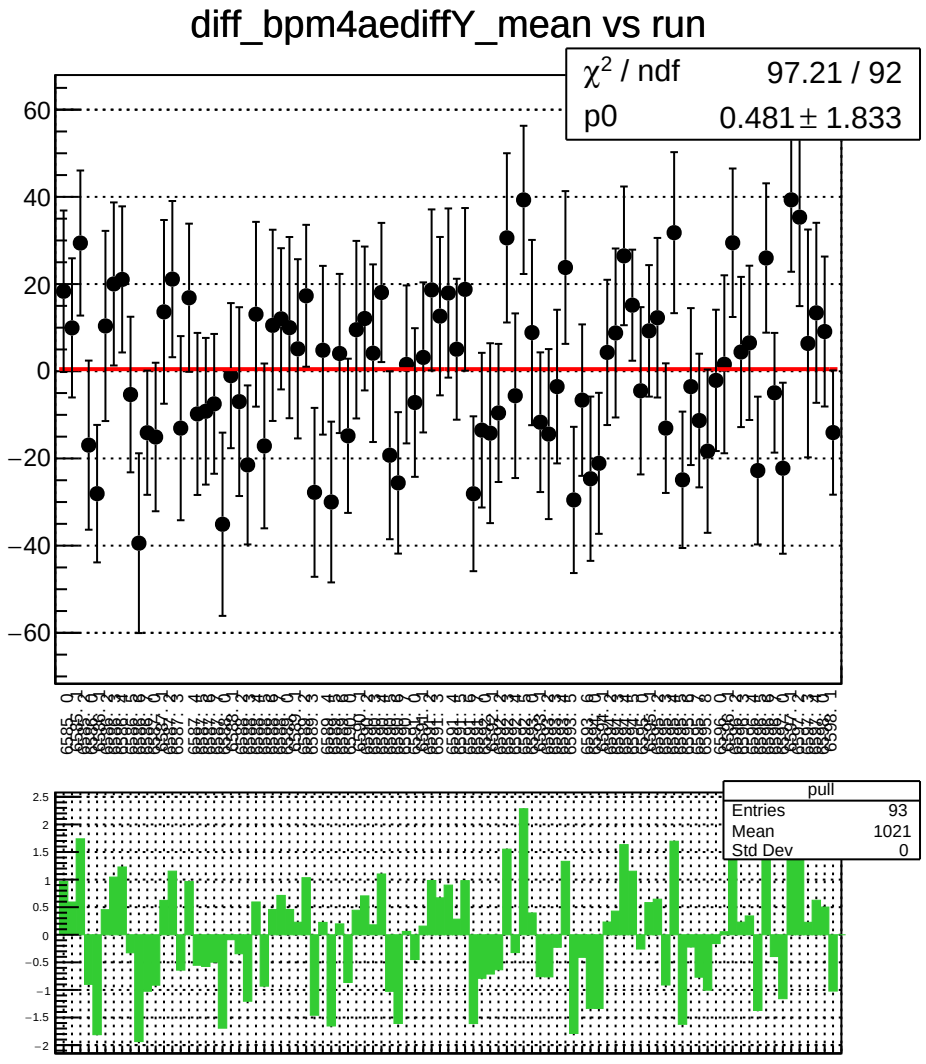

pull1D
Entries 93
Mean −0.001999
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

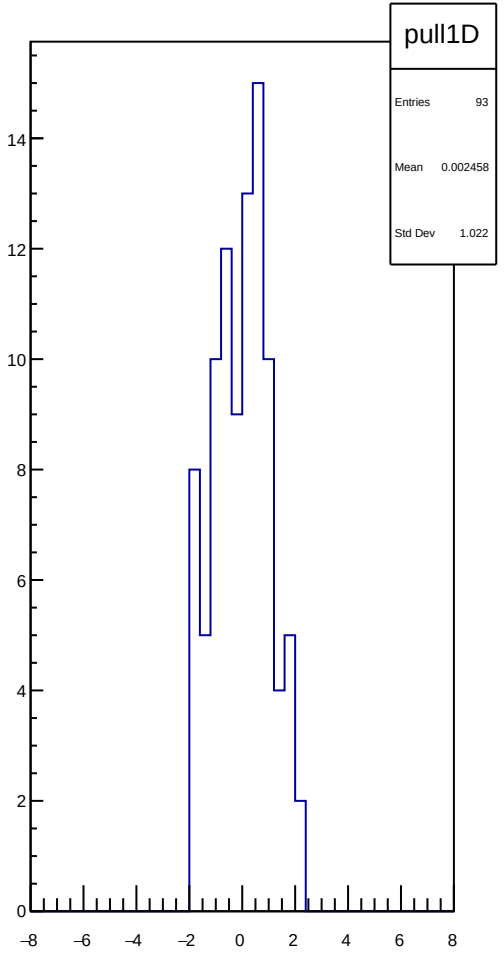

diff_bpm4aediffX_rms vs run
χ² / ndf 1.725e+04 / 92
p0 6546 ± 4.944
9000
8500
8000
7500
7000
6500
6000
5500

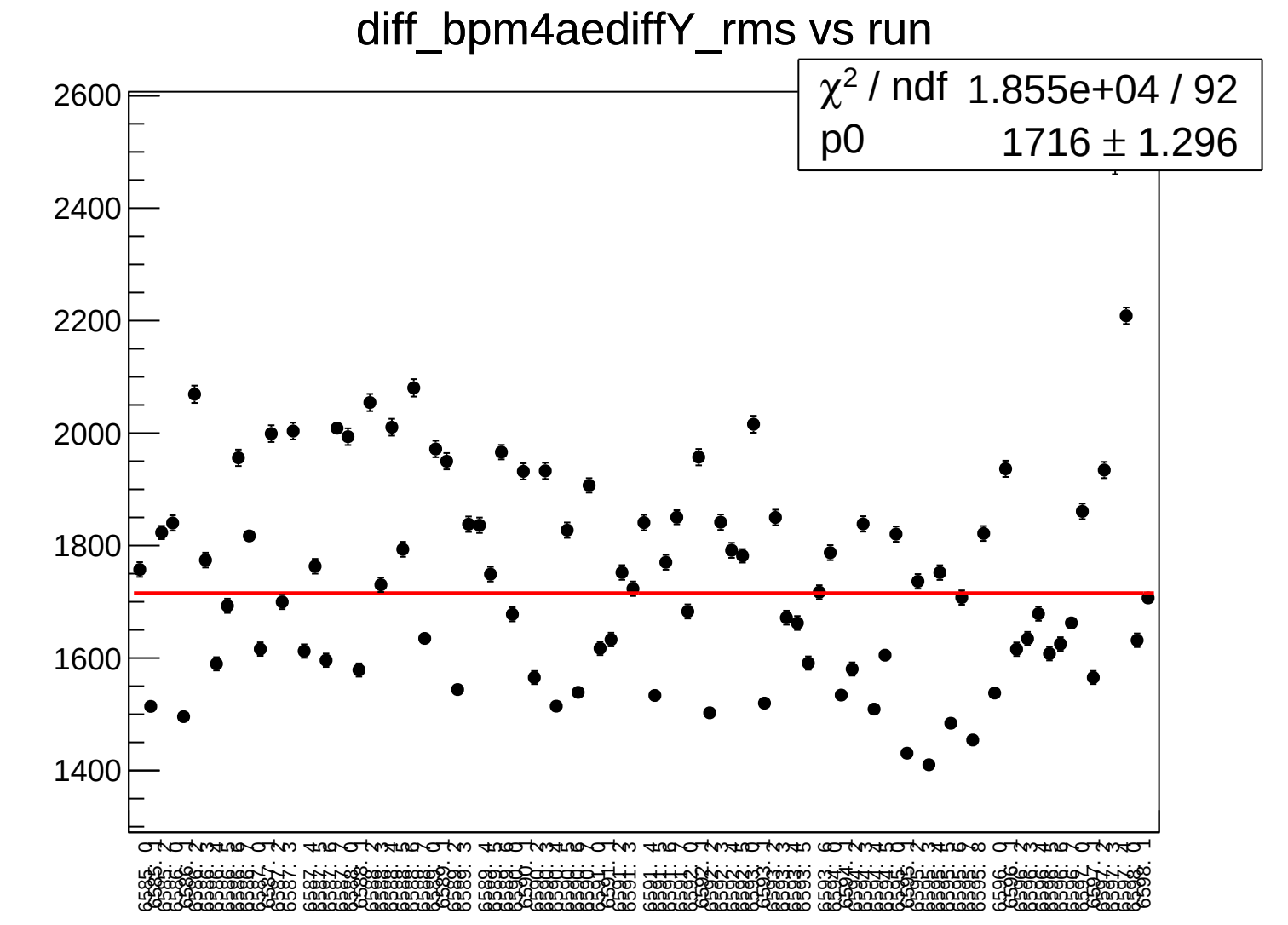

diff_bpm4aesumY_mean vs run
χ² / ndf 121.9 / 92
p0 −0.03629 ± 10.58
pull
Entries 93
Mean 489.4
Std Dev 0

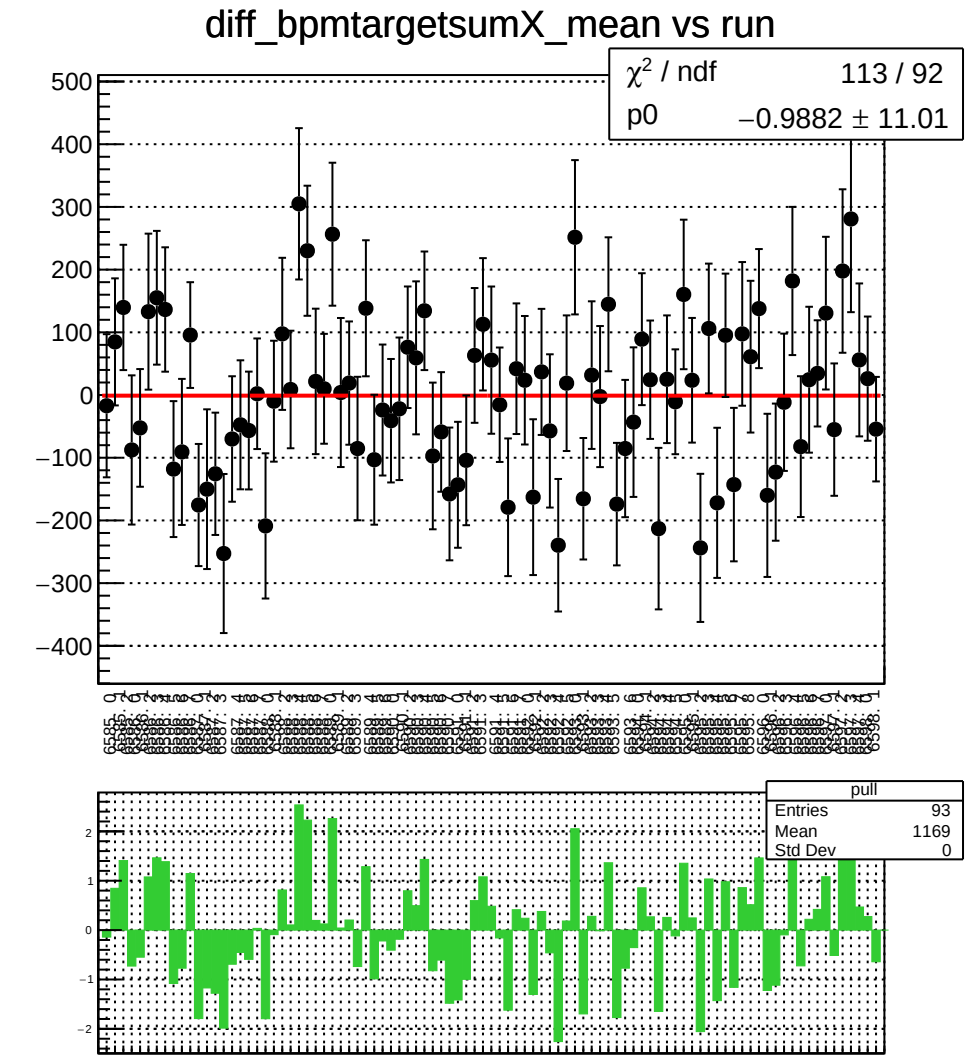

pull1D
Entries 93
Mean 0.003732
Std Dev 1.145

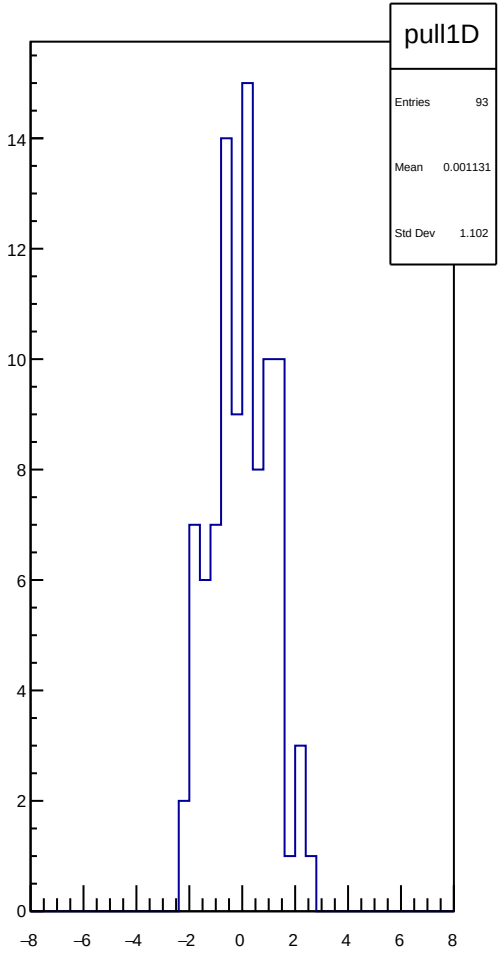

diff_bpm4aesumY_rms vs run
χ² / ndf 2179 / 92
p0 9951 ± 7.483
11000
10500
10000
9500
9000

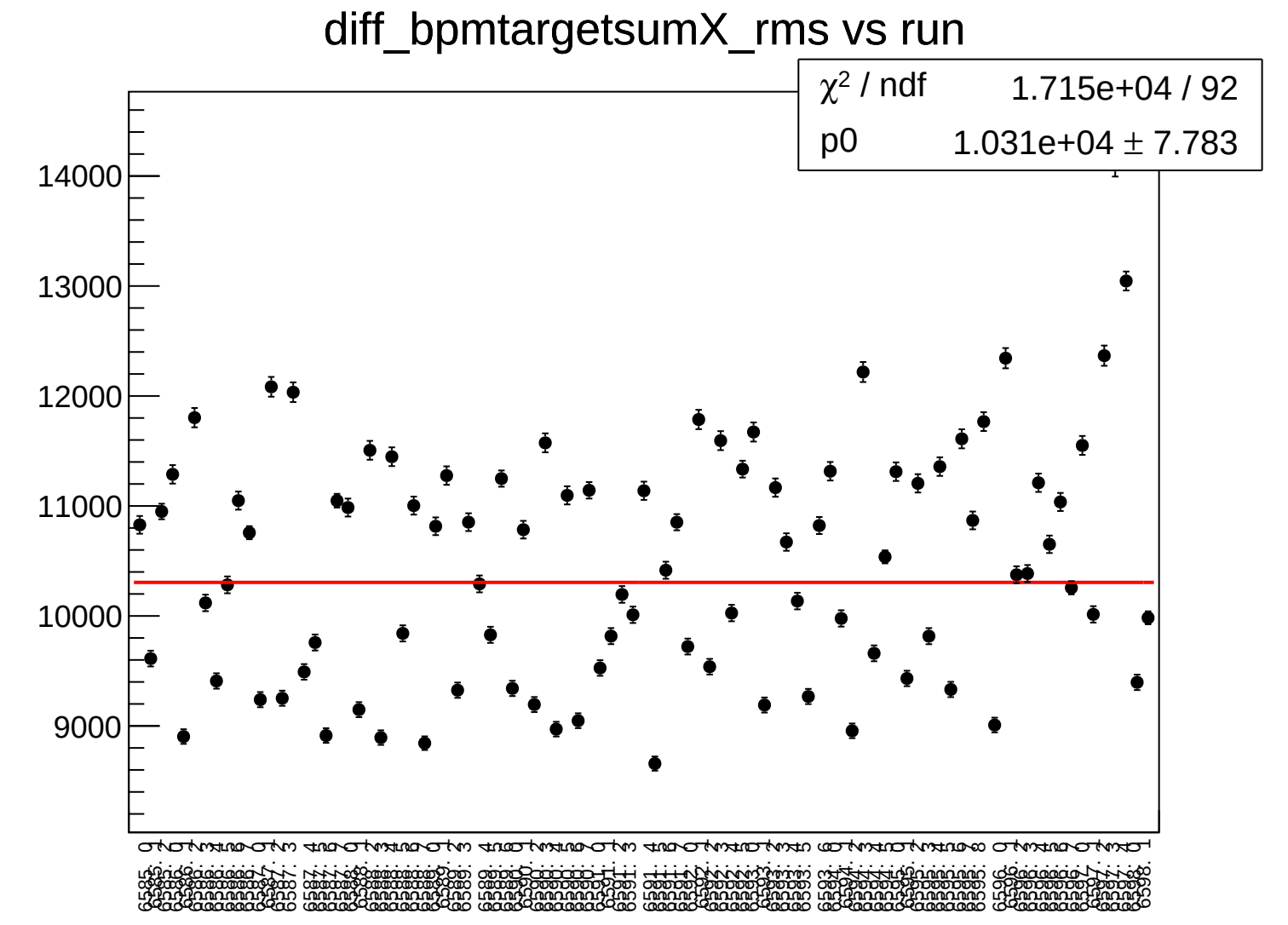

diff_bpm4aediffY_mean vs run
χ^2 / ndf 97.21 / 92
p0 0.481 ± 1.833
pull
Entries 93
Mean 1021
Std Dev 0

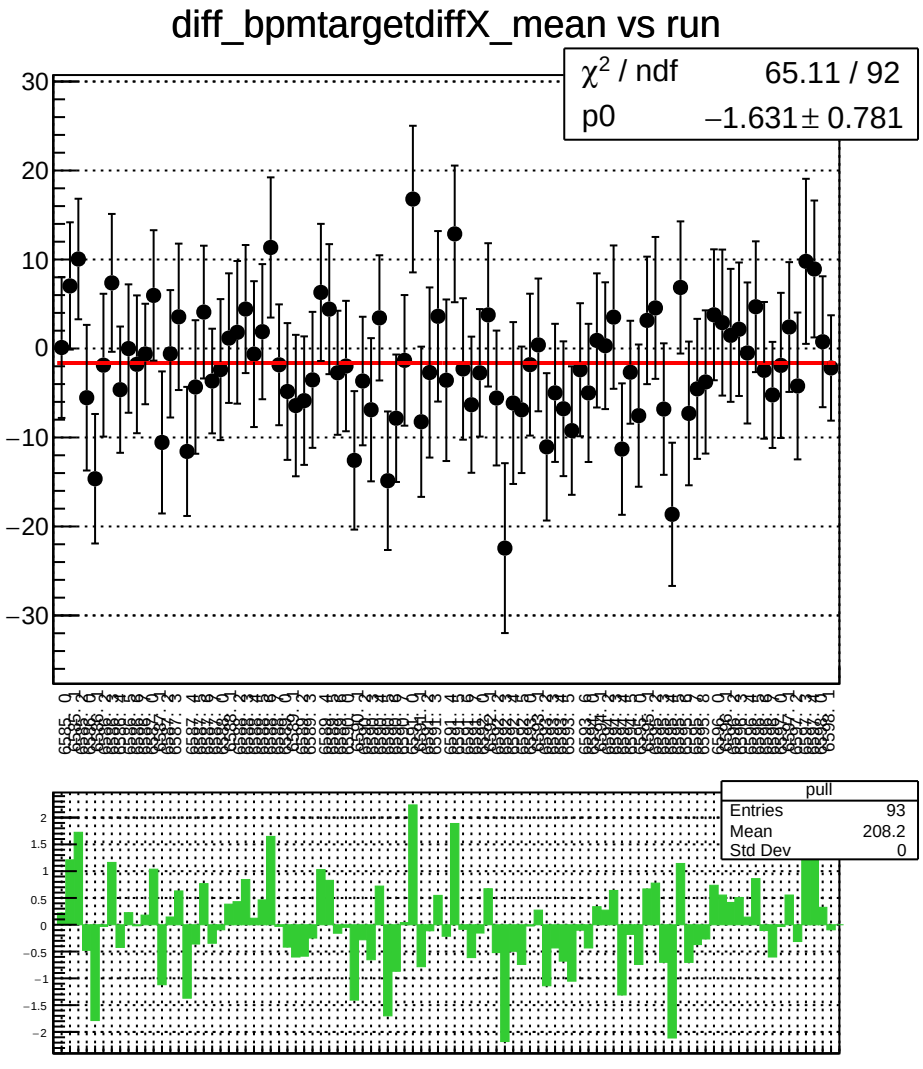

pull1D
Entries 93
Mean 0.002458
Std Dev 1.022

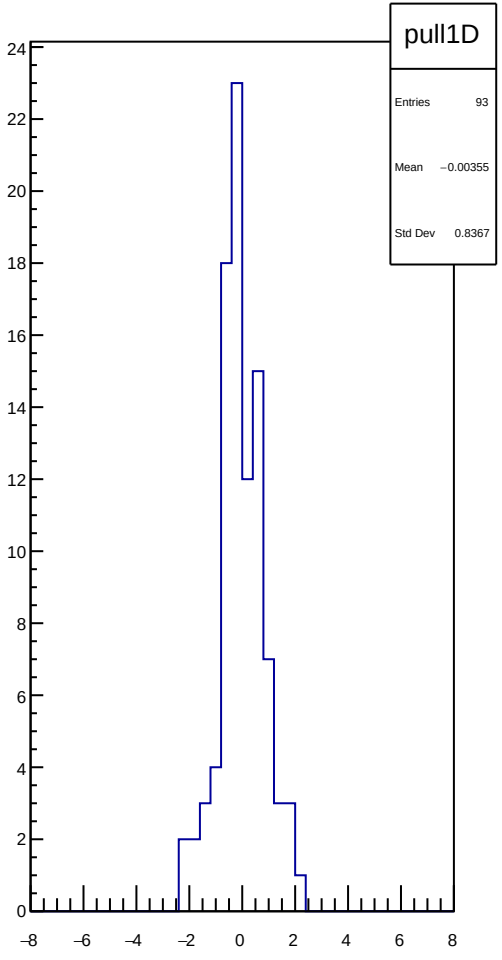

diff_bpm4aediffY_rms vs run
χ² / ndf 1.855e+04 / 92
p0 1716 ± 1.296
2600
2400
2200
2000
1800
1600
1400

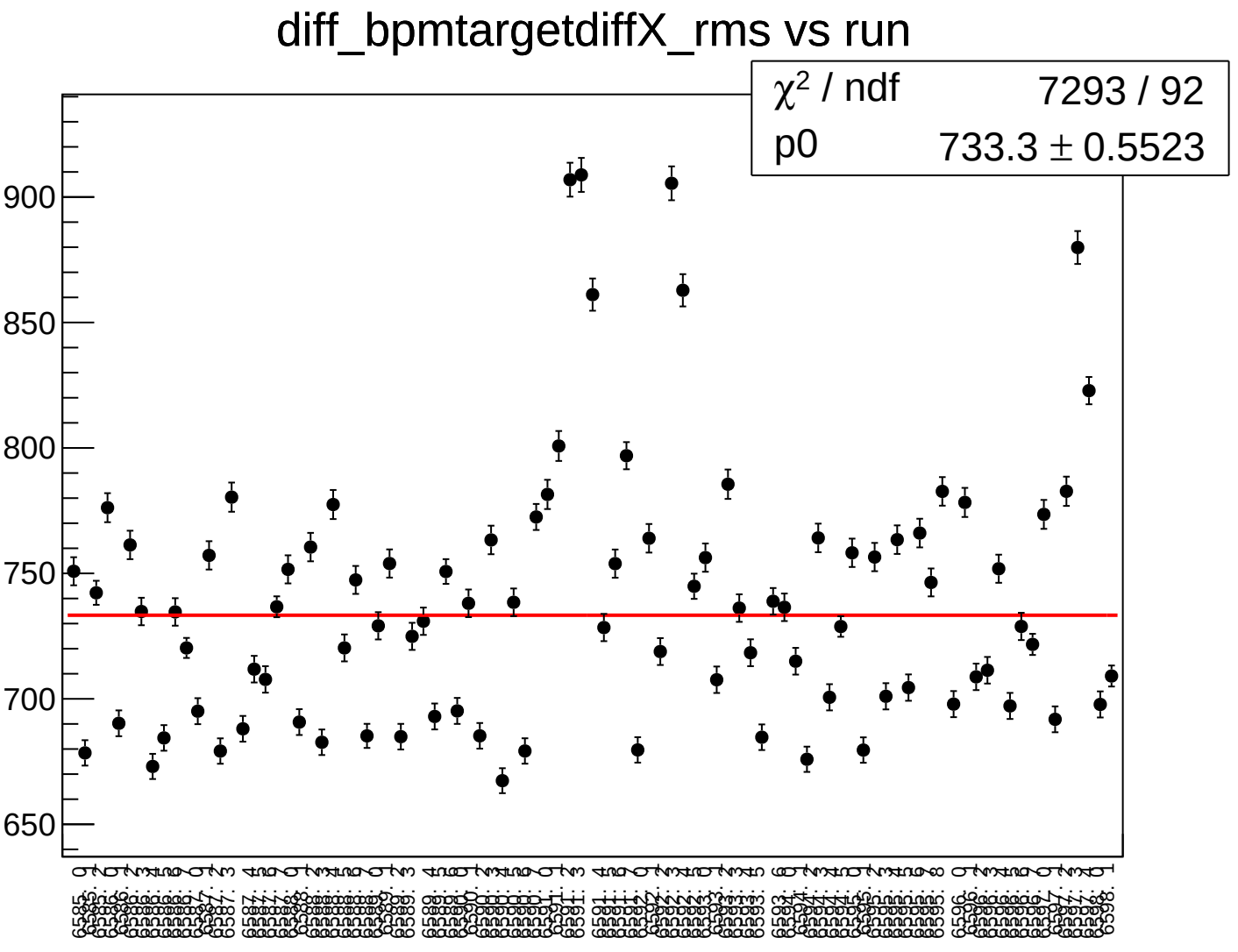

diff_bpmtargetsumX_mean vs run
χ² / ndf 113 / 92
p0 −0.9882 ± 11.01
pull
Entries 93
Mean 1169
Std Dev 0

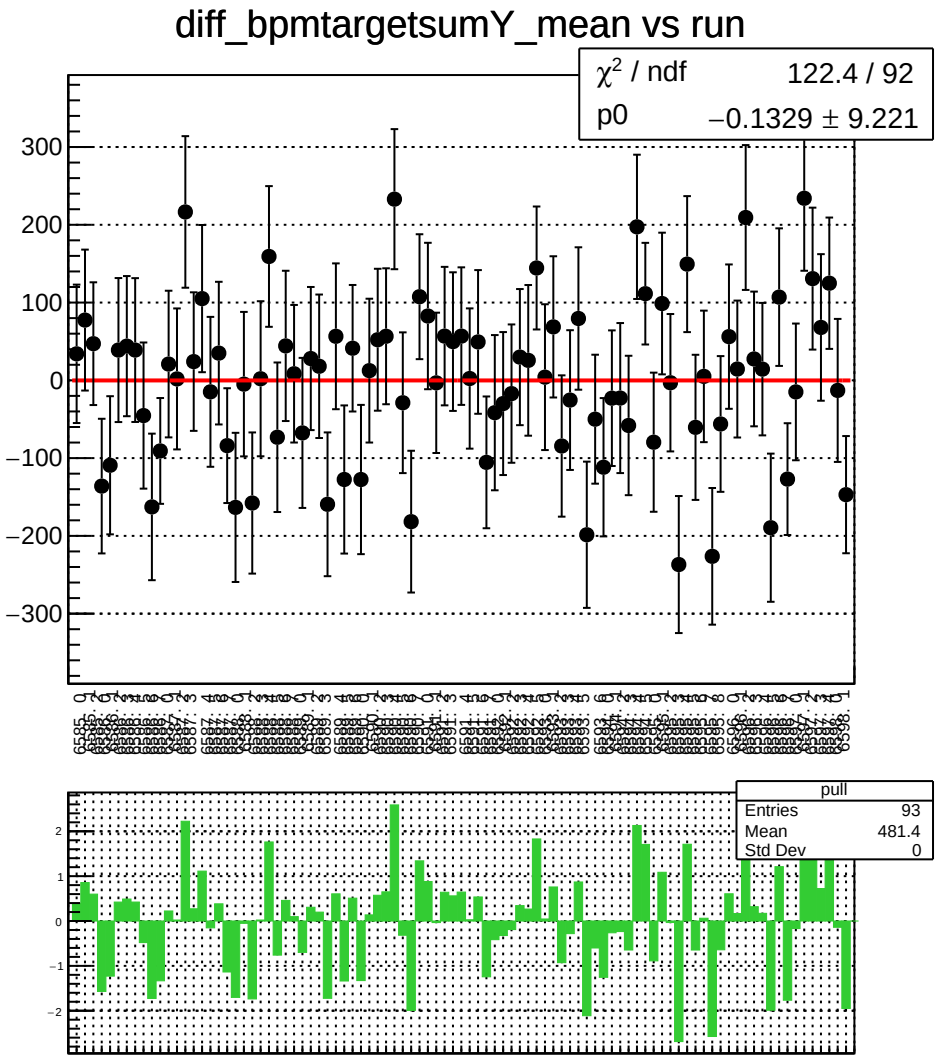

pull1D
Entries 93
Mean 0.001131
Std Dev 1.102

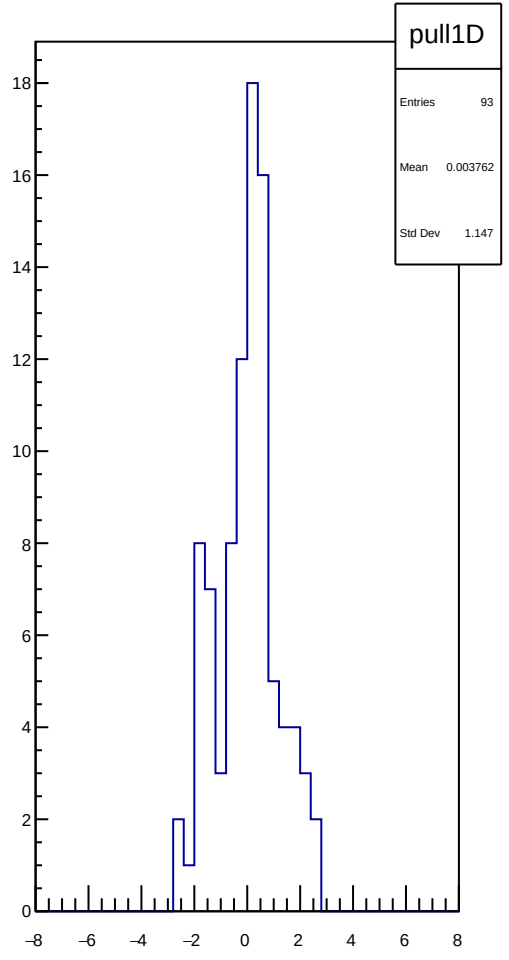

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.715e+04 / 92
p0 1.031e+04 ± 7.783
14000
13000
12000
11000
10000
9000

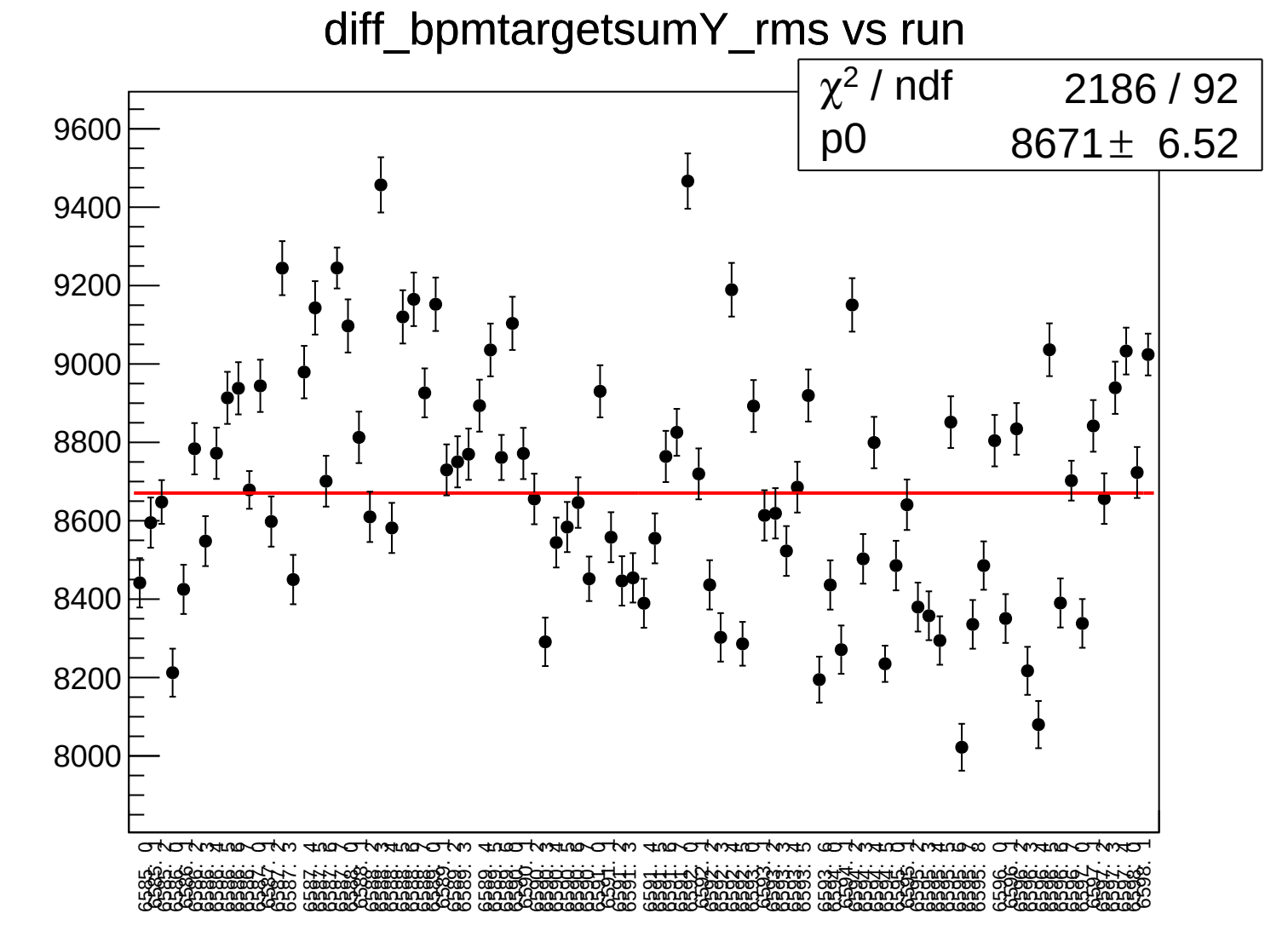

diff_bpmtargetdiffX_mean vs run
χ^2 / ndf 65.11 / 92
p0 −1.631 ± 0.781
pull
Entries 93
Mean 208.2
Std Dev 0

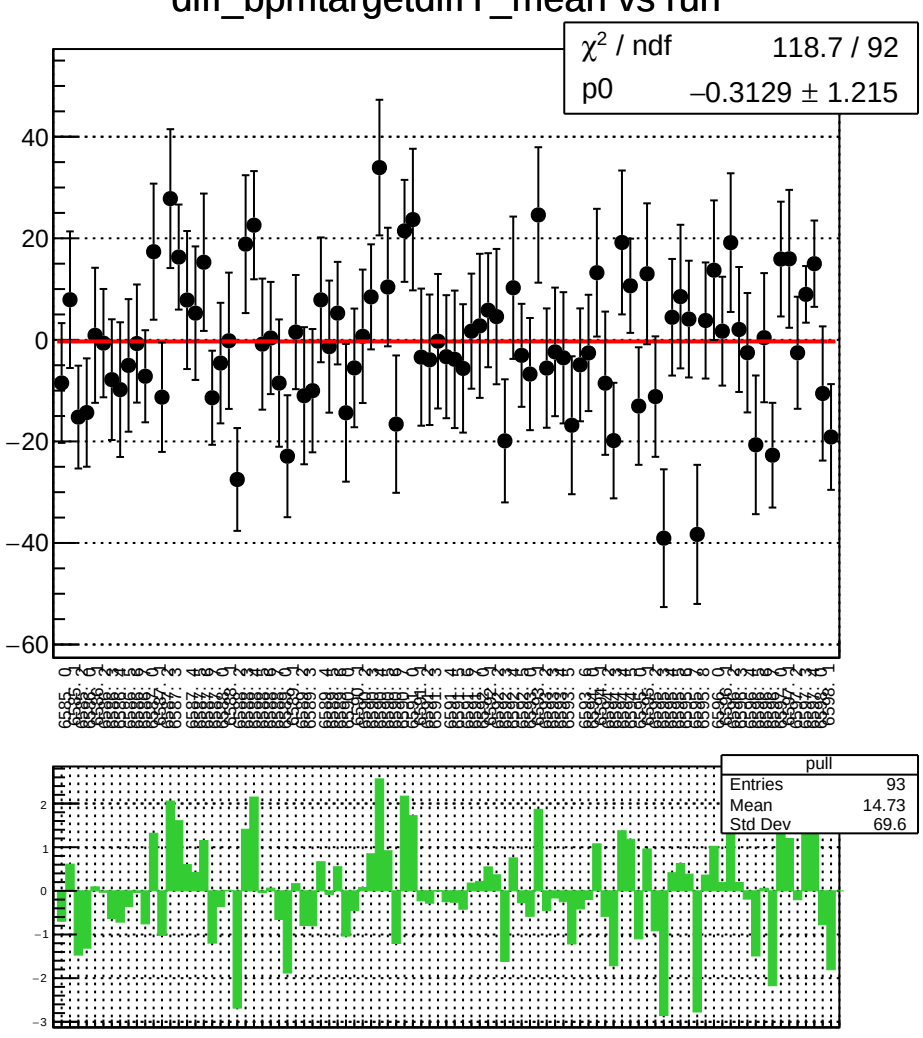

pull1D
Entries 93
Mean −0.00355
Std Dev 0.8367

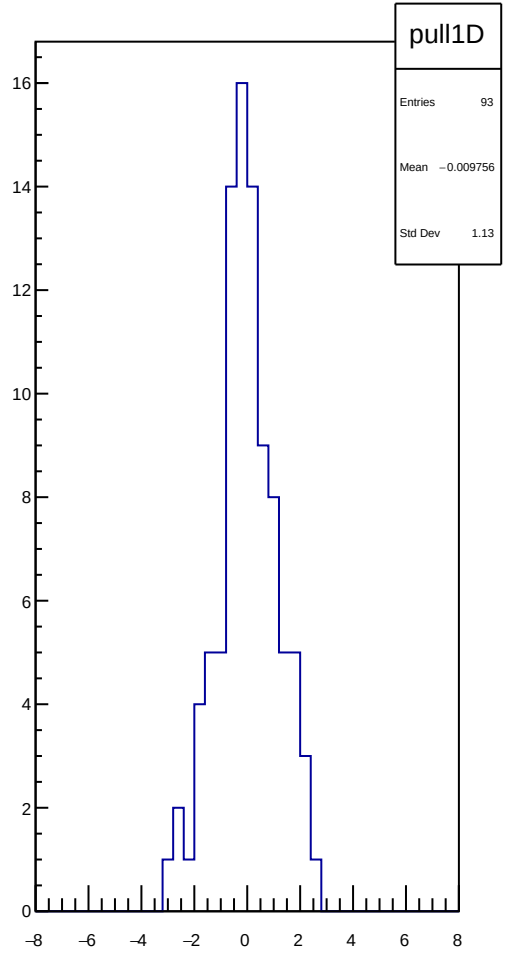

diff_bpmtargetdiffX_rms vs run
χ² / ndf 7293 / 92
p0 733.3 ± 0.5523
900
850
800
750
700
650

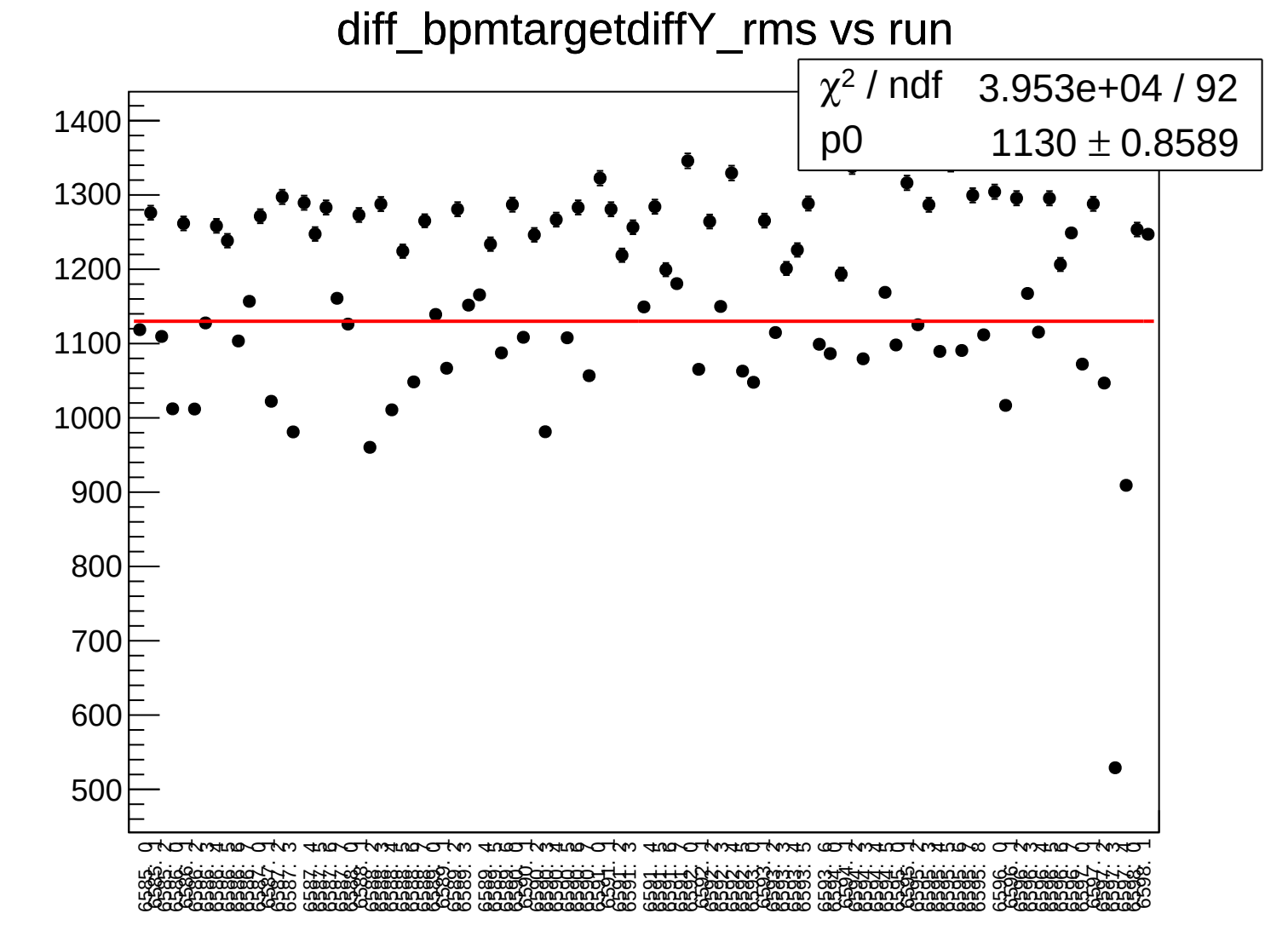

diff_bpmtargetsumY_mean vs run
χ² / ndf 122.4 / 92
p0 −0.1329 ± 9.221
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 481.4
Std Dev 0
2
1
0
−1
−2

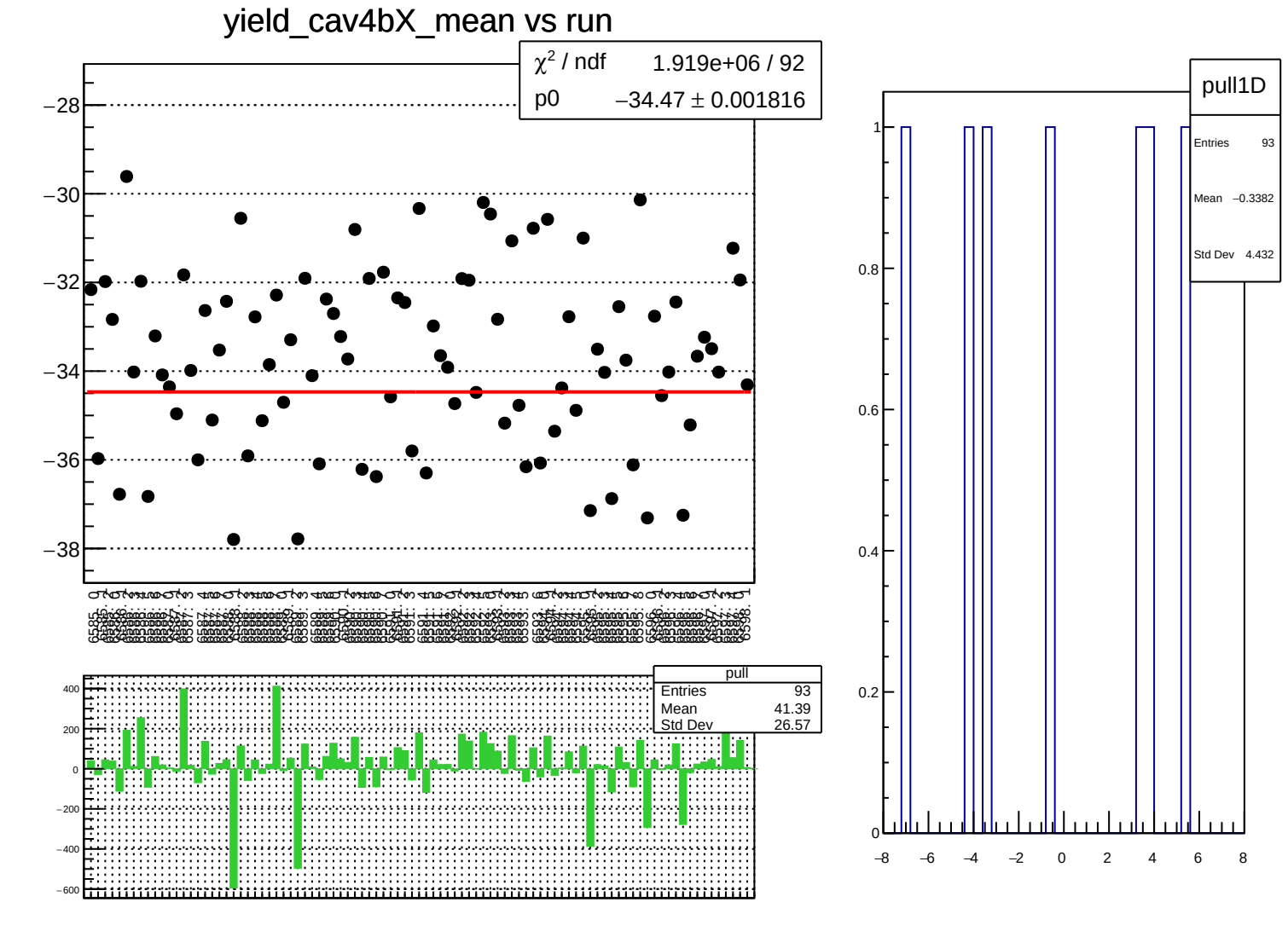

pull1D
Entries 93
Mean 0.003762
Std Dev 1.147
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpmtargetsumY_rms vs run
χ² / ndf 2186 / 92
p0 8671 ± 6.52
9600
9400
9200
9000
8800
8600
8400
8200
8000

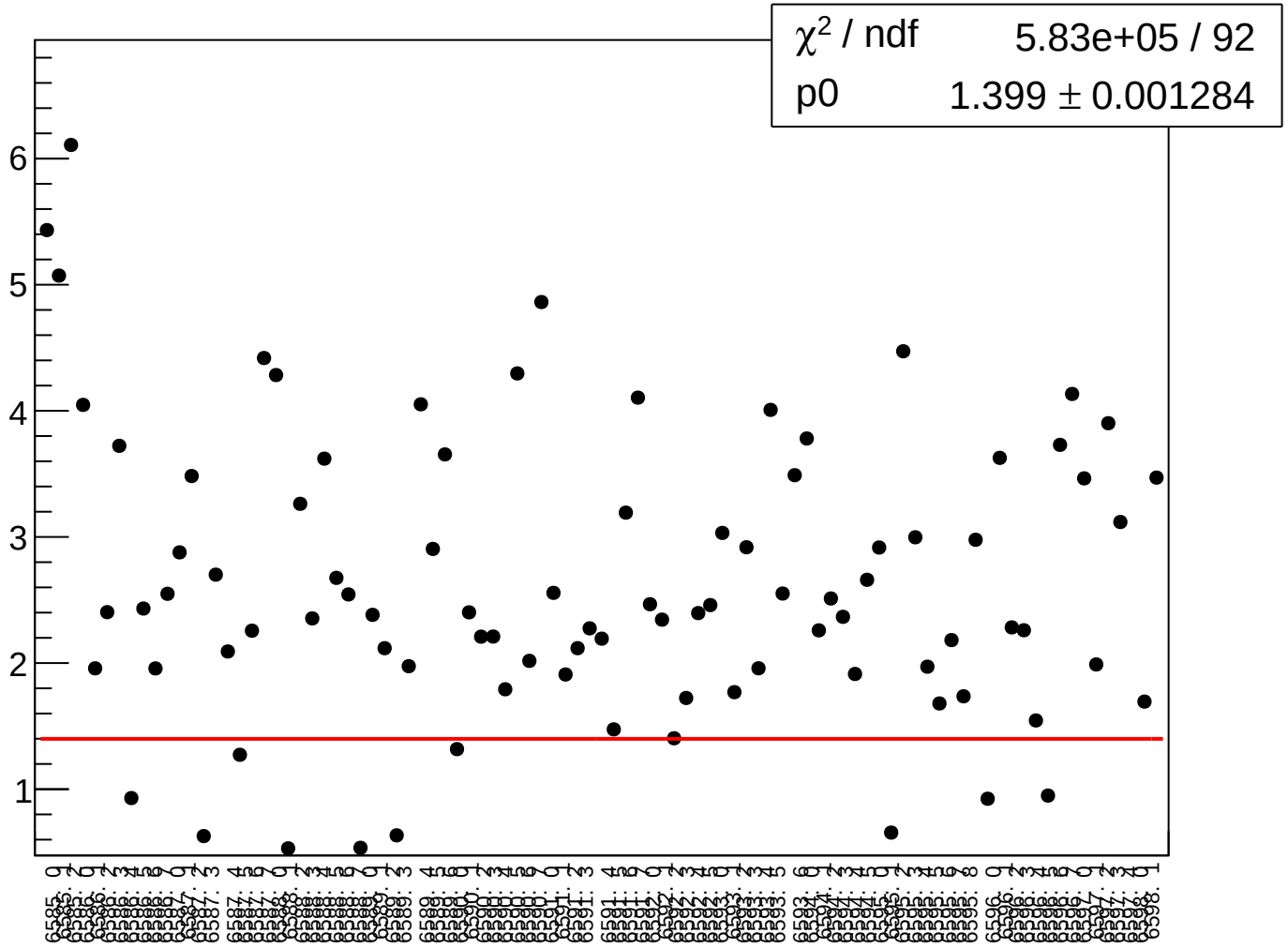

diff_bpmtargetdiffY_mean vs run
χ² / ndf 118.7 / 92
p0 −0.3129 ± 1.215
40
20
0
−20
−40
−60
pull
Entries 93
Mean 14.73
Std Dev 69.6
2
1
0
−1
−2
−3

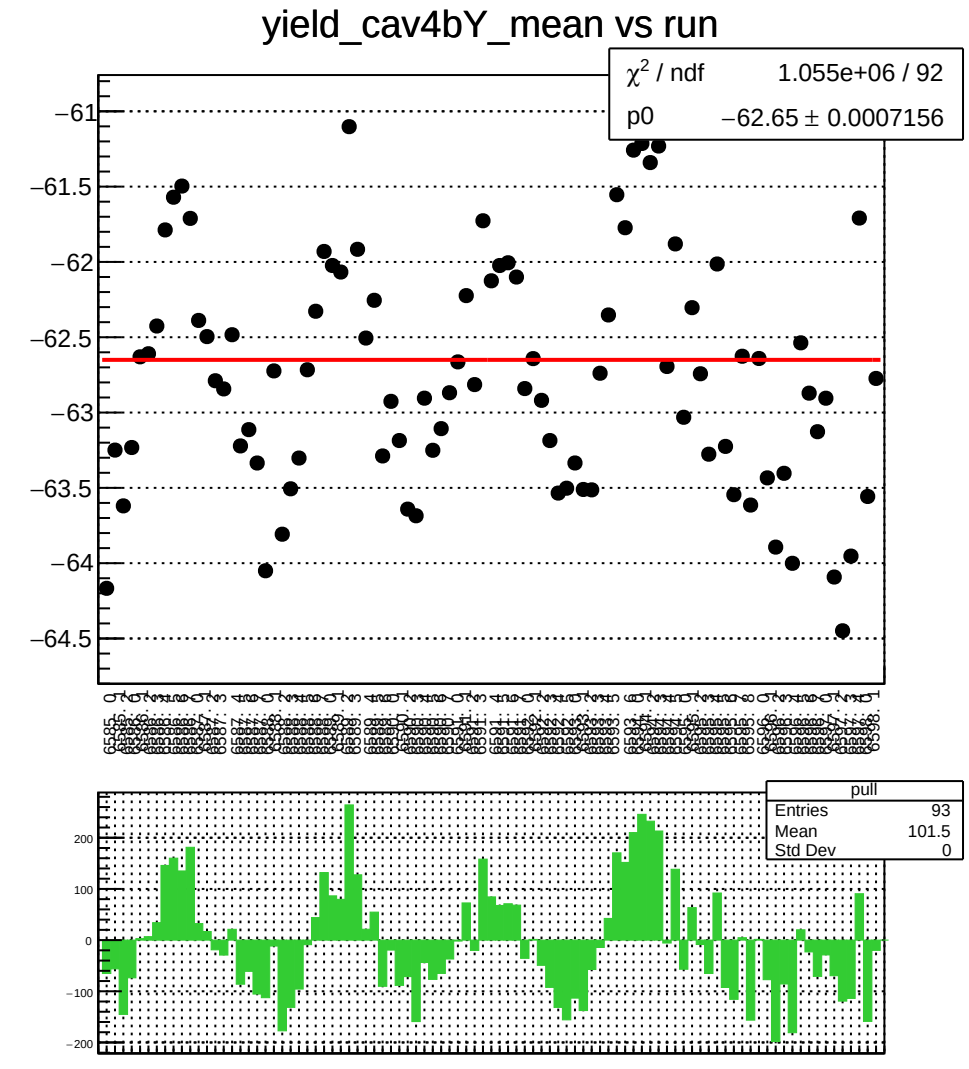

pull1D
Entries 93
Mean −0.009756
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

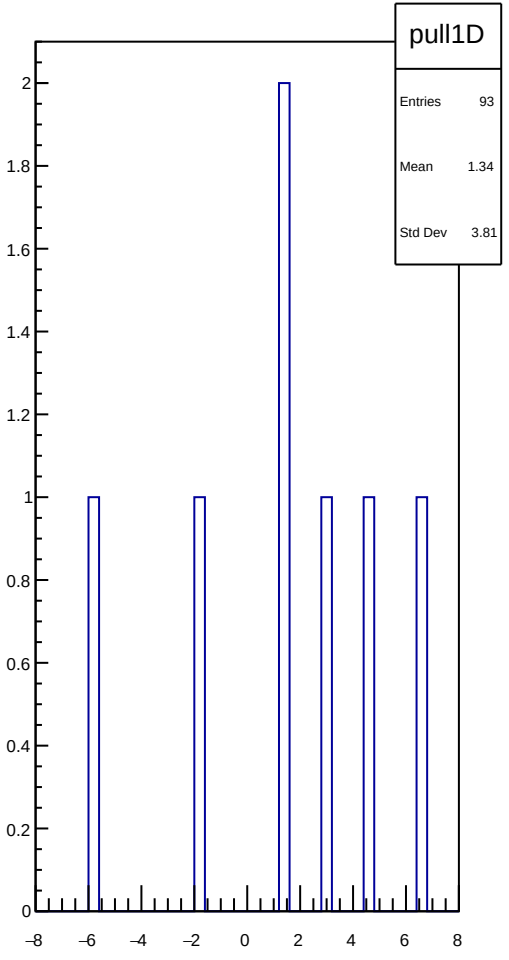

diff_bpmtargetdiffY_rms vs run
χ² / ndf 3.953e+04 / 92
p0 1130 ± 0.8589
1400
1300
1200
1100
1000
900
800
700
600
500

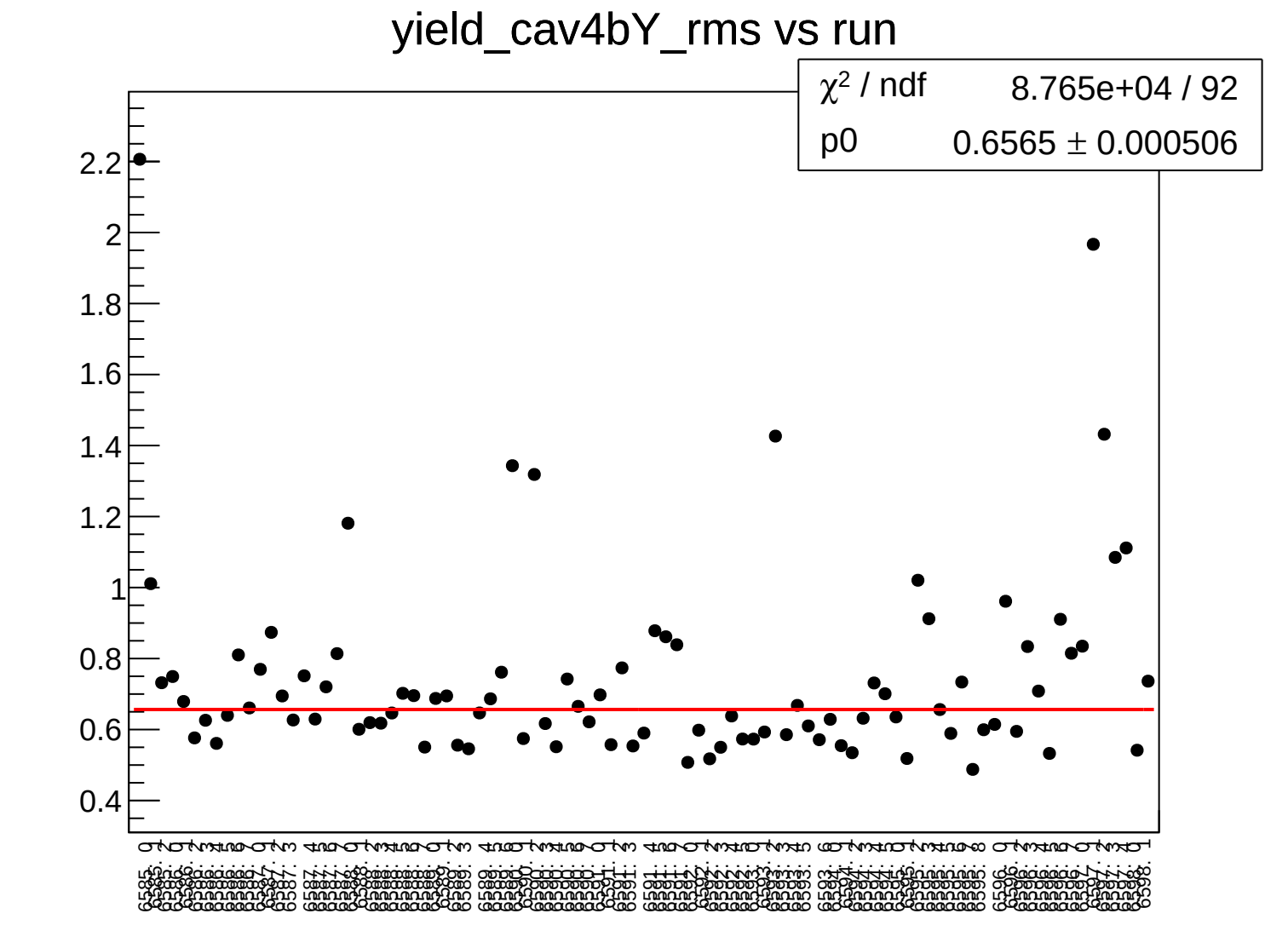

yield_cav4bX_mean vs run
χ² / ndf 1.919e+06 / 92
p0 −34.47 ± 0.001816
−28
−30
−32
−34
−36
−38
pull
Entries 93
Mean 41.39
Std Dev 26.57
400
200
0
−200
−400
−600
pull1D
Entries 93
Mean −0.3382
Std Dev 4.432
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

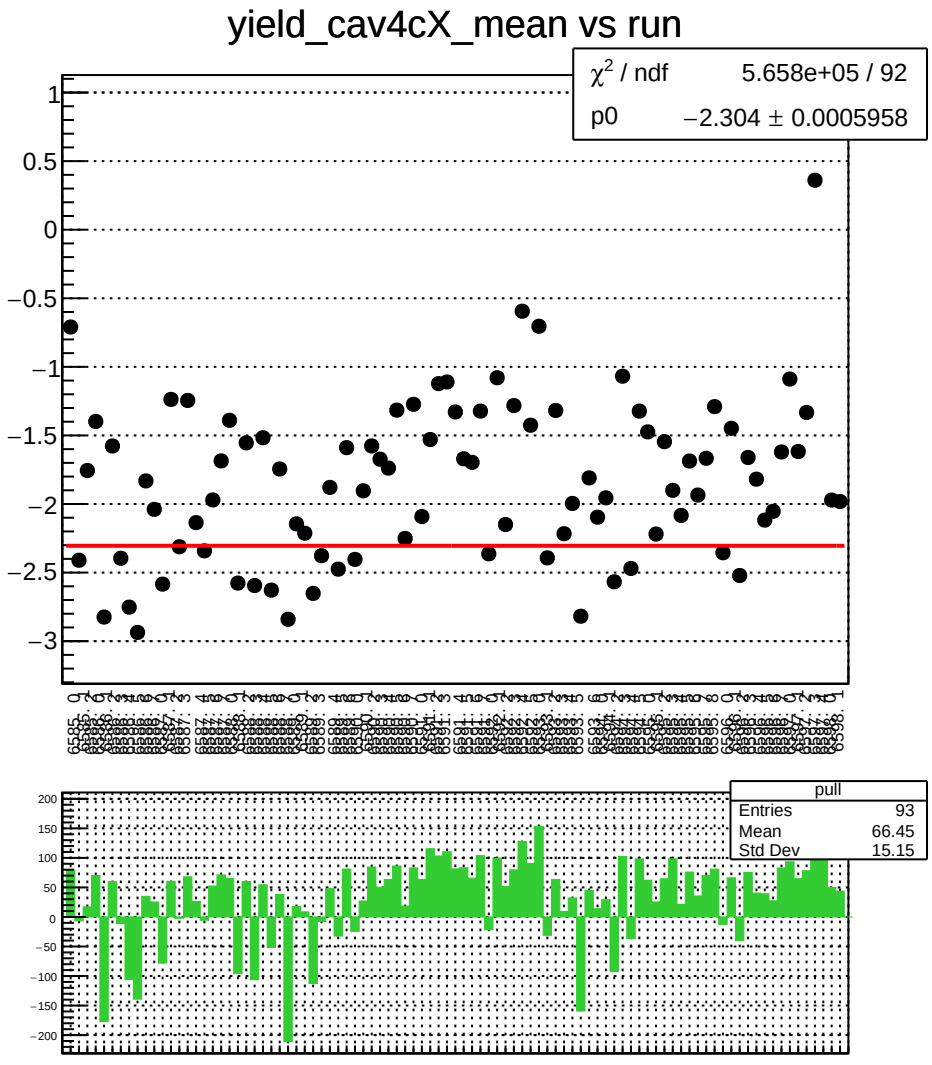
yield_cav4bX_rms vs run

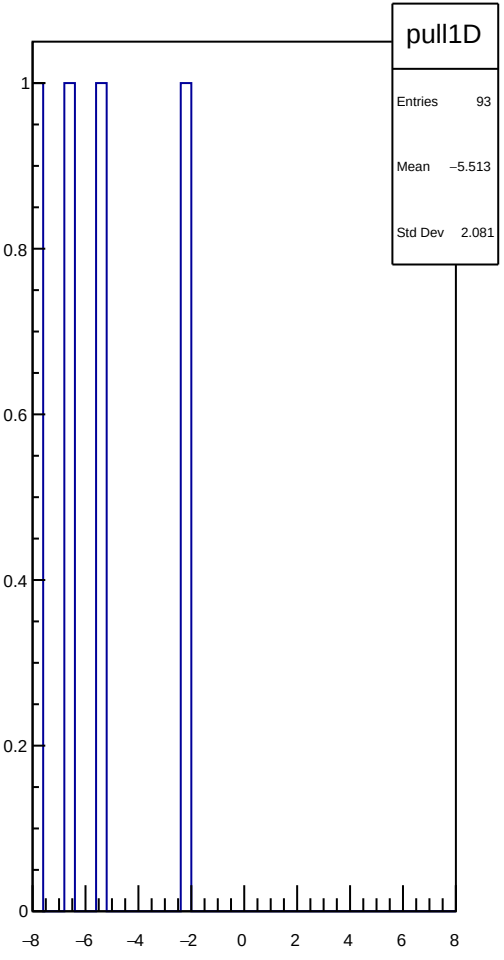


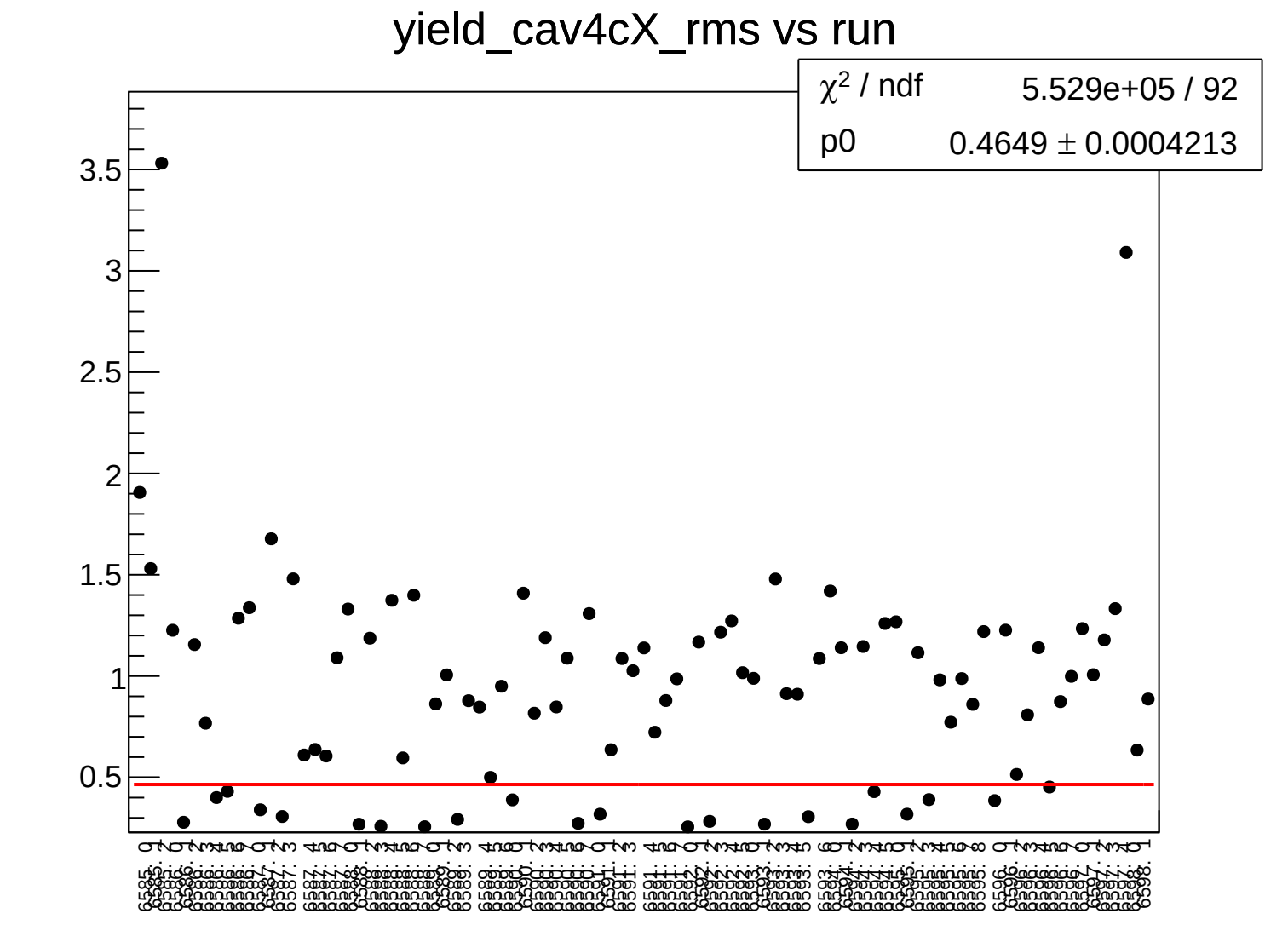

yield_cav4bY_mean vs run
χ² / ndf 1.055e+06 / 92
p0 −62.65 ± 0.0007156
−61
−61.5
−62
−62.5
−63
−63.5
−64
−64.5
pull
Entries 93
Mean 101.5
Std Dev 0
200
100
0
−100
−200

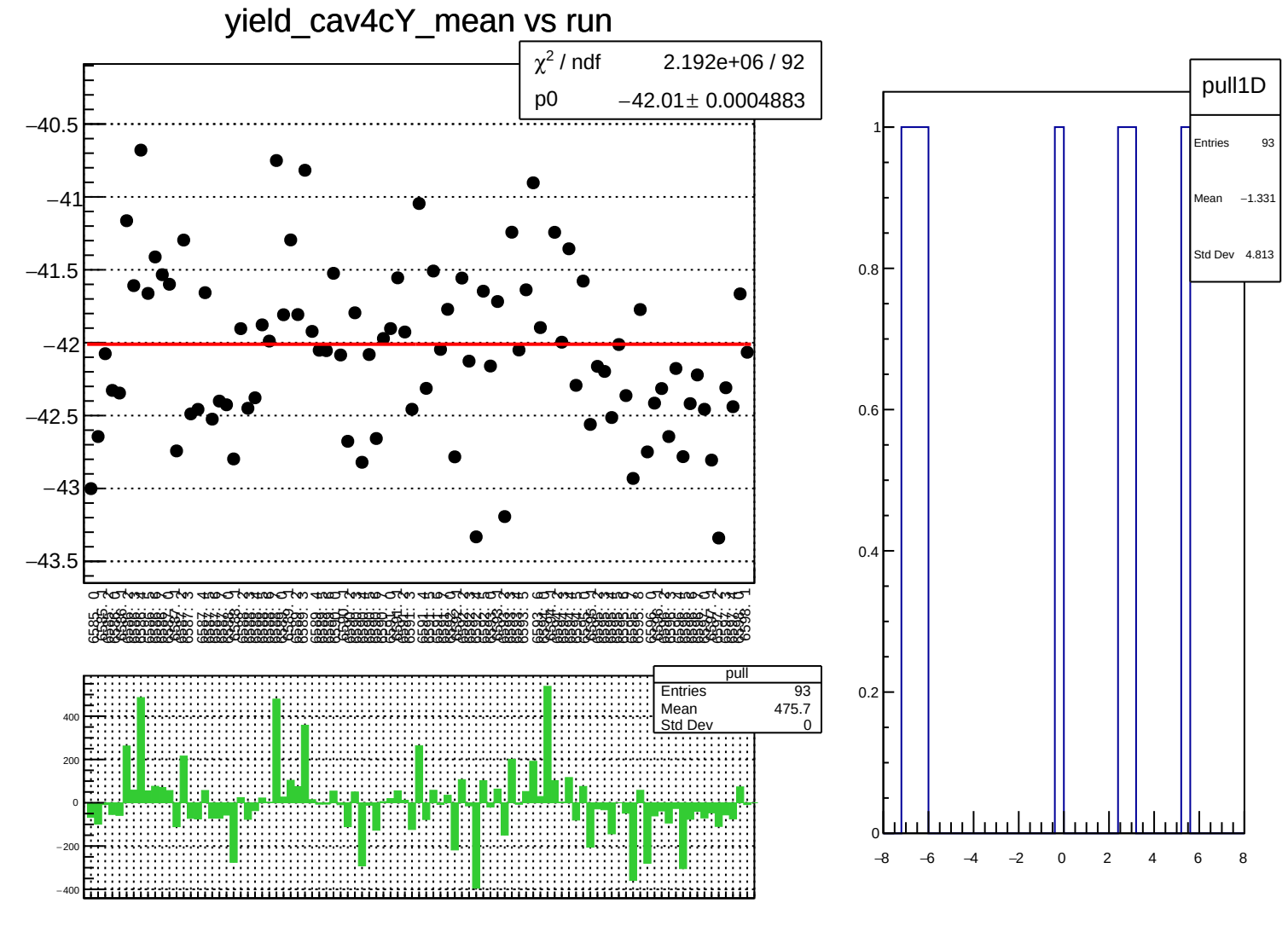

pull1D
Entries 93
Mean 1.34
Std Dev 3.81
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

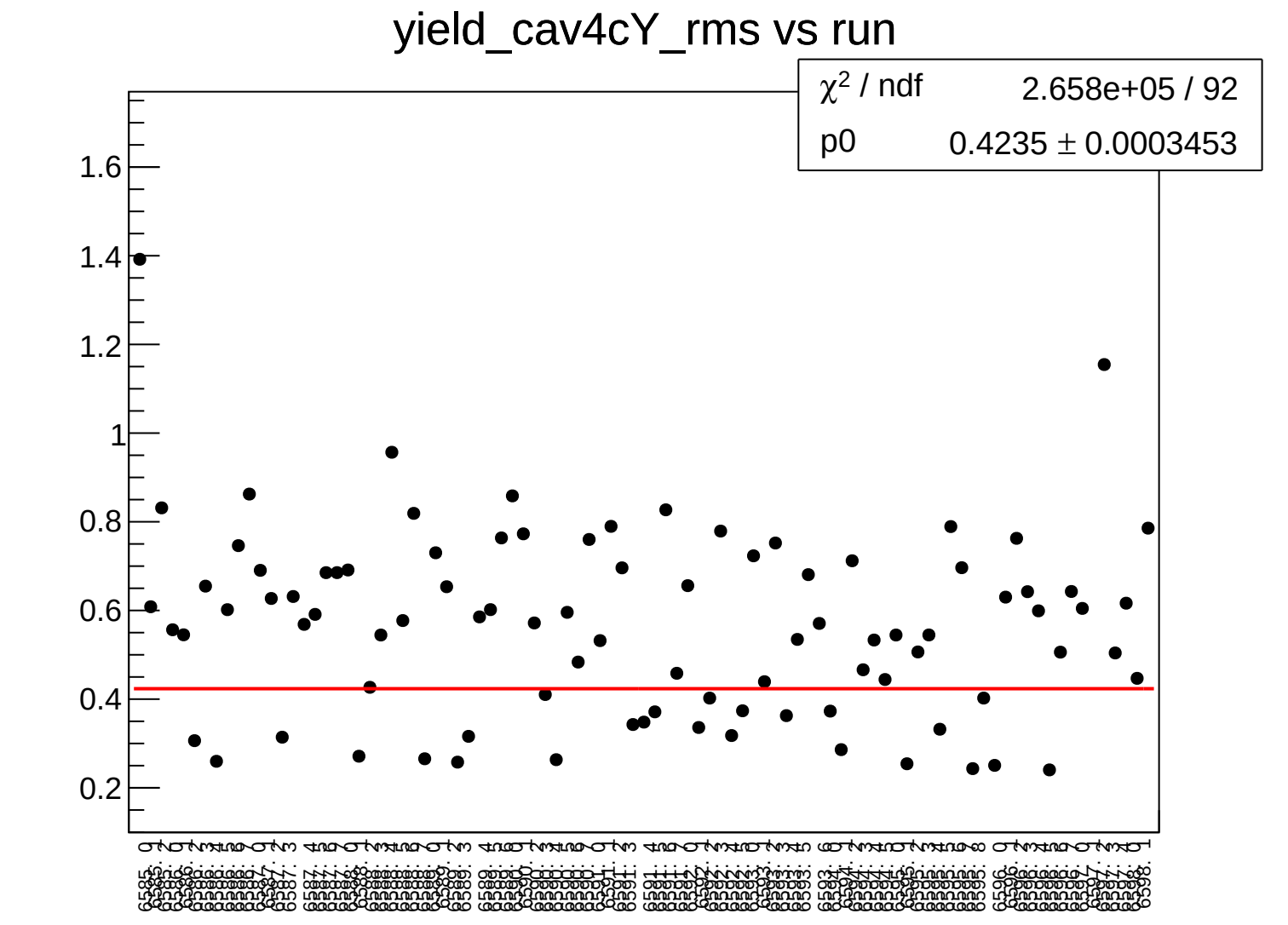

yield_cav4bY_rms vs run
χ² / ndf 8.765e+04 / 92
p0 0.6565 ± 0.000506
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

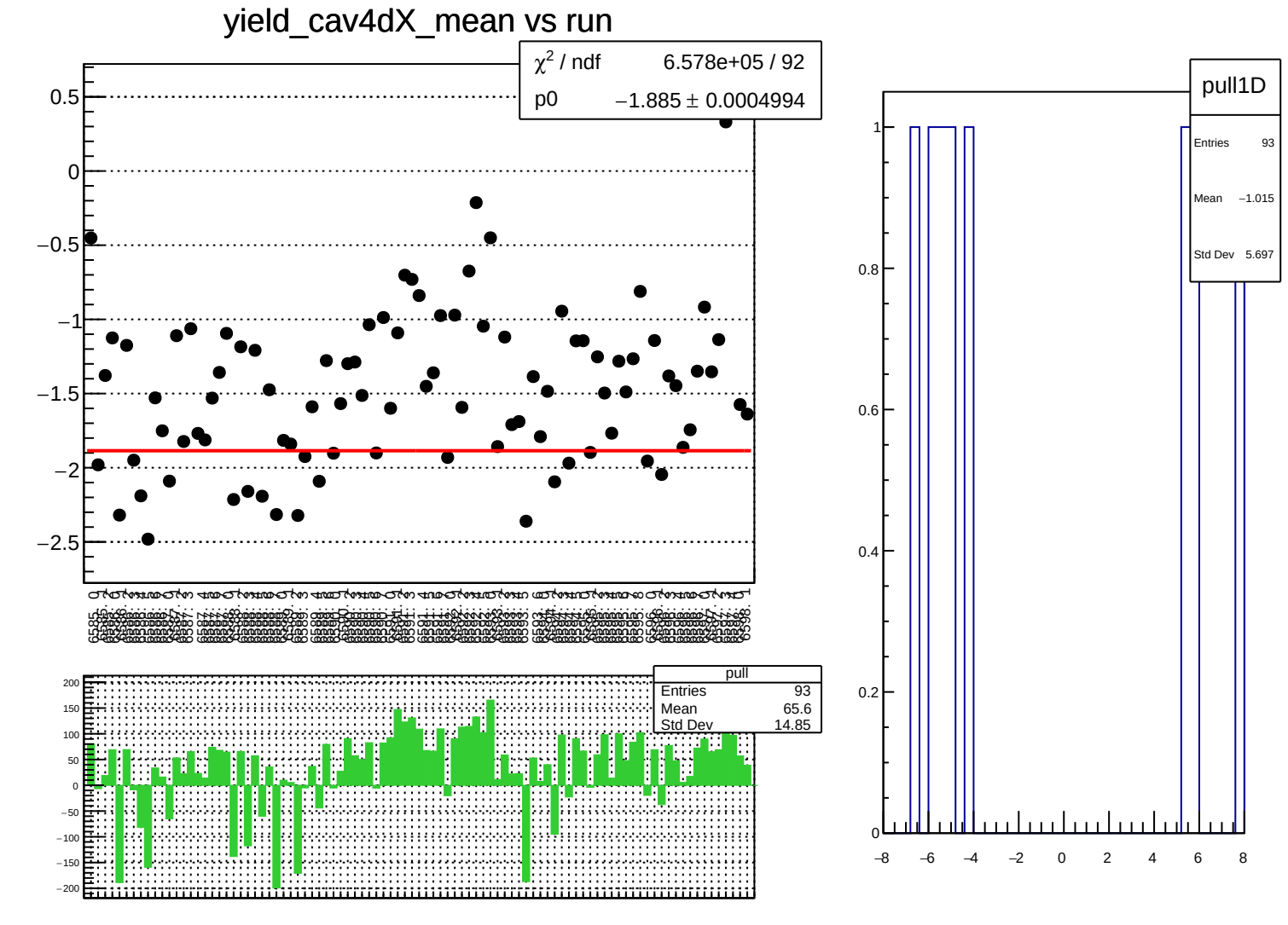

yield_cav4cX_mean vs run
χ² / ndf 5.658e+05 / 92
p0 −2.304 ± 0.0005958
pull
Entries 93
Mean 66.45
Std Dev 15.15

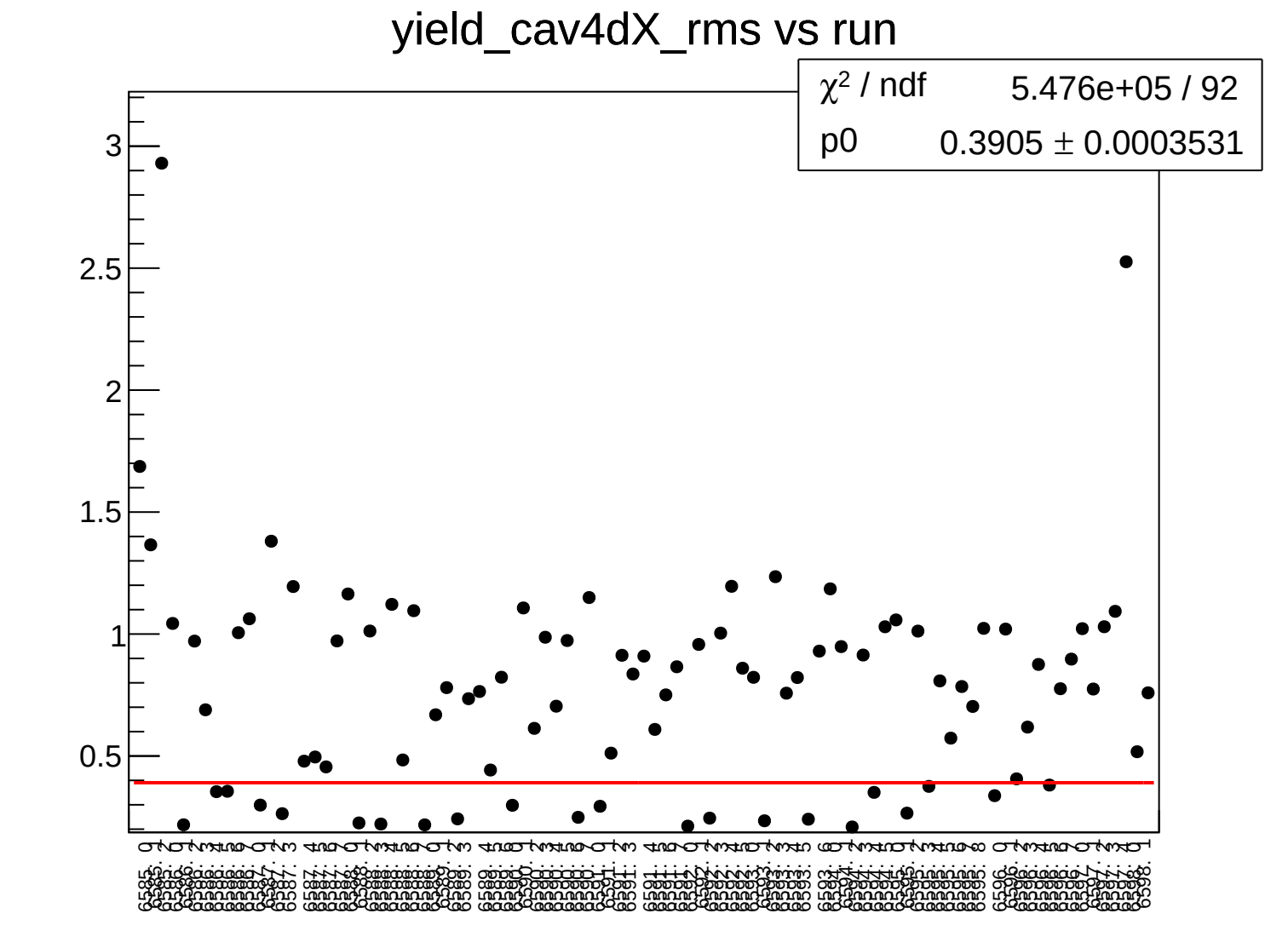

pull1D
Entries 93
Mean −5.513
Std Dev 2.081

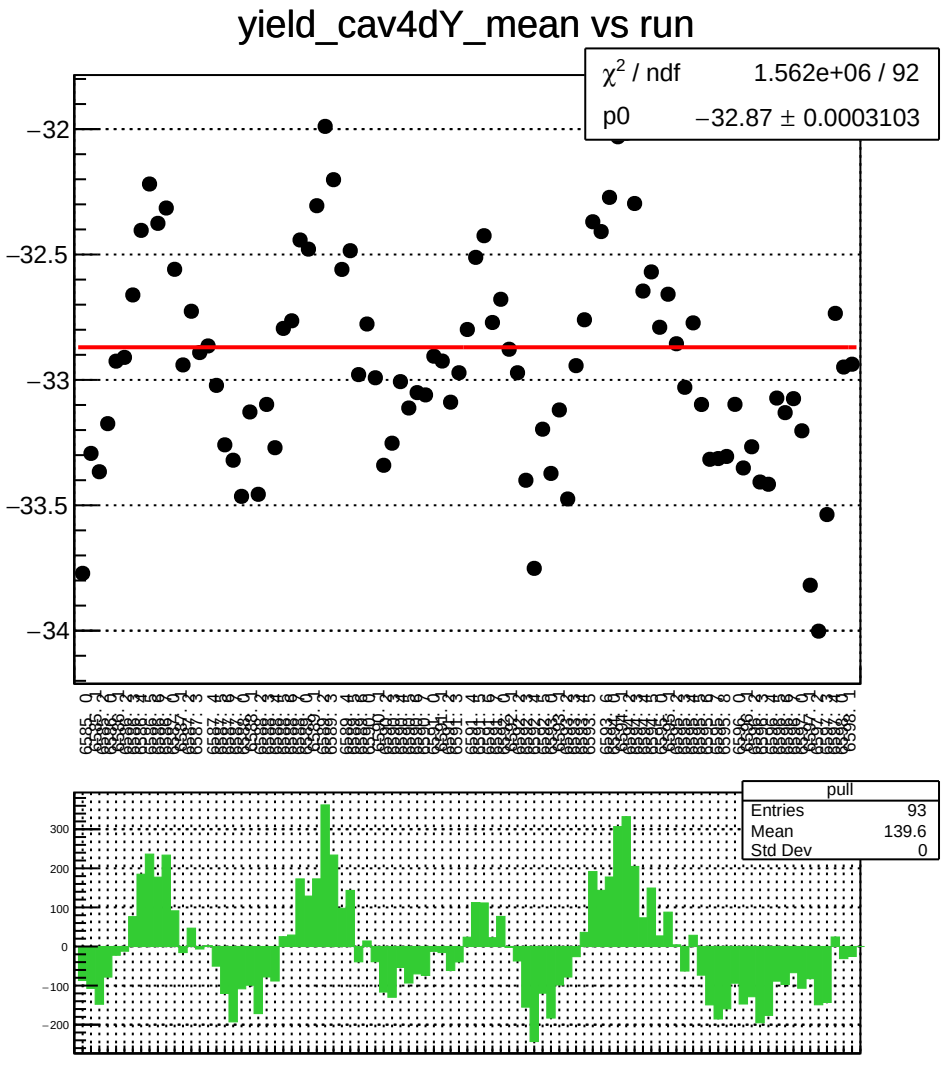

yield_cav4cX_rms vs run
χ^2 / ndf 5.529e+05 / 92
p0 0.4649 ± 0.0004213
3.5
3
2.5
2
1.5
1
0.5

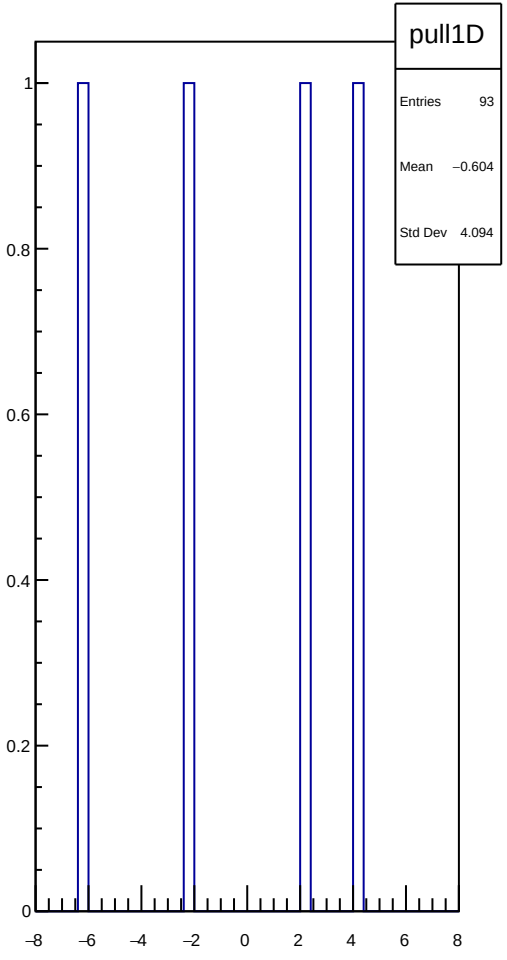

yield_cav4cY_mean vs run
χ² / ndf 2.192e+06 / 92
p0 −42.01 ± 0.0004883
−40.5
−41
−41.5
−42
−42.5
−43
−43.5
pull
Entries 93
Mean 475.7
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 93
Mean −1.331
Std Dev 4.813
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

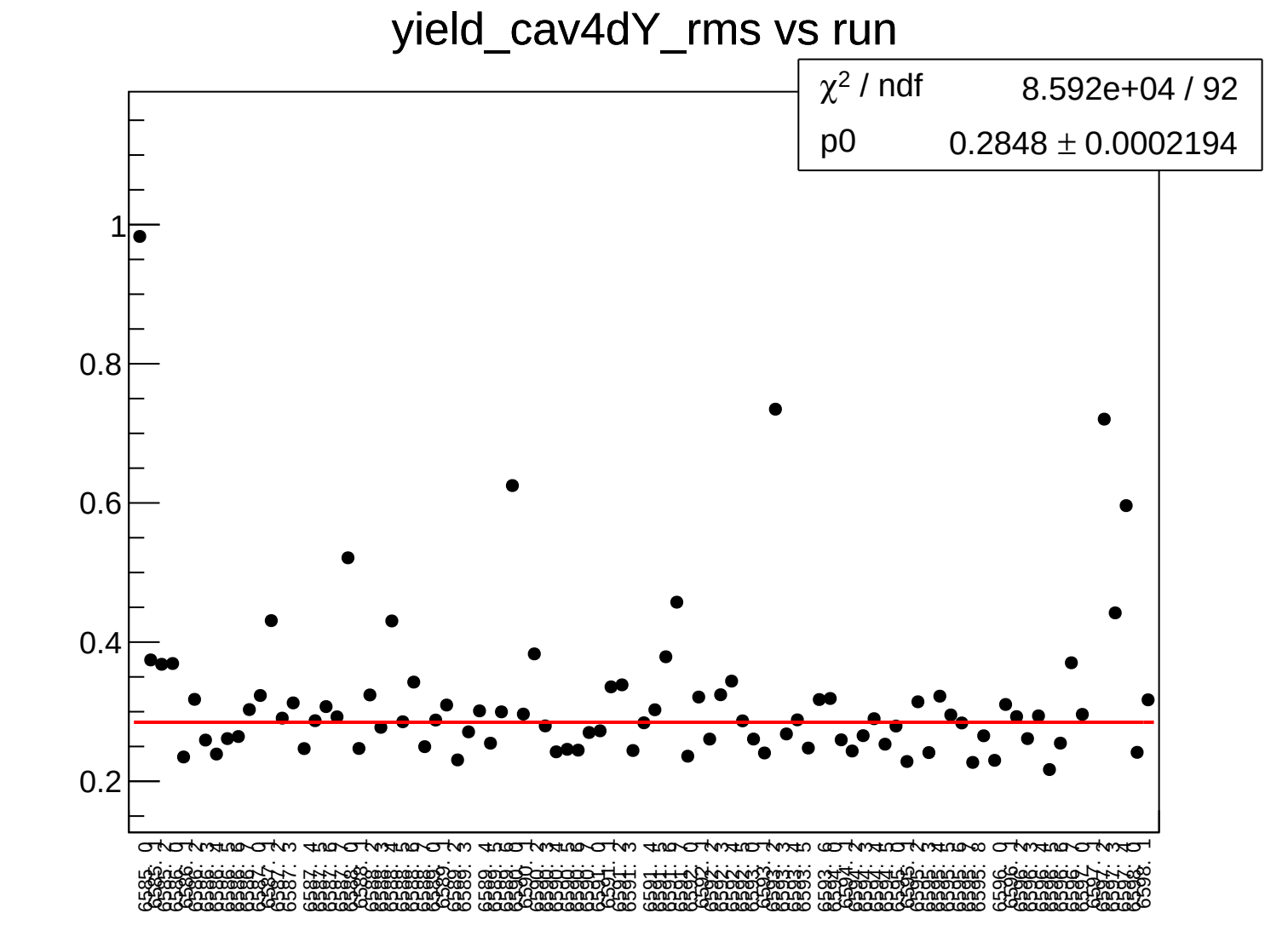

yield_cav4cY_rms vs run
χ² / ndf 2.658e+05 / 92
p0 0.4235 ± 0.0003453
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

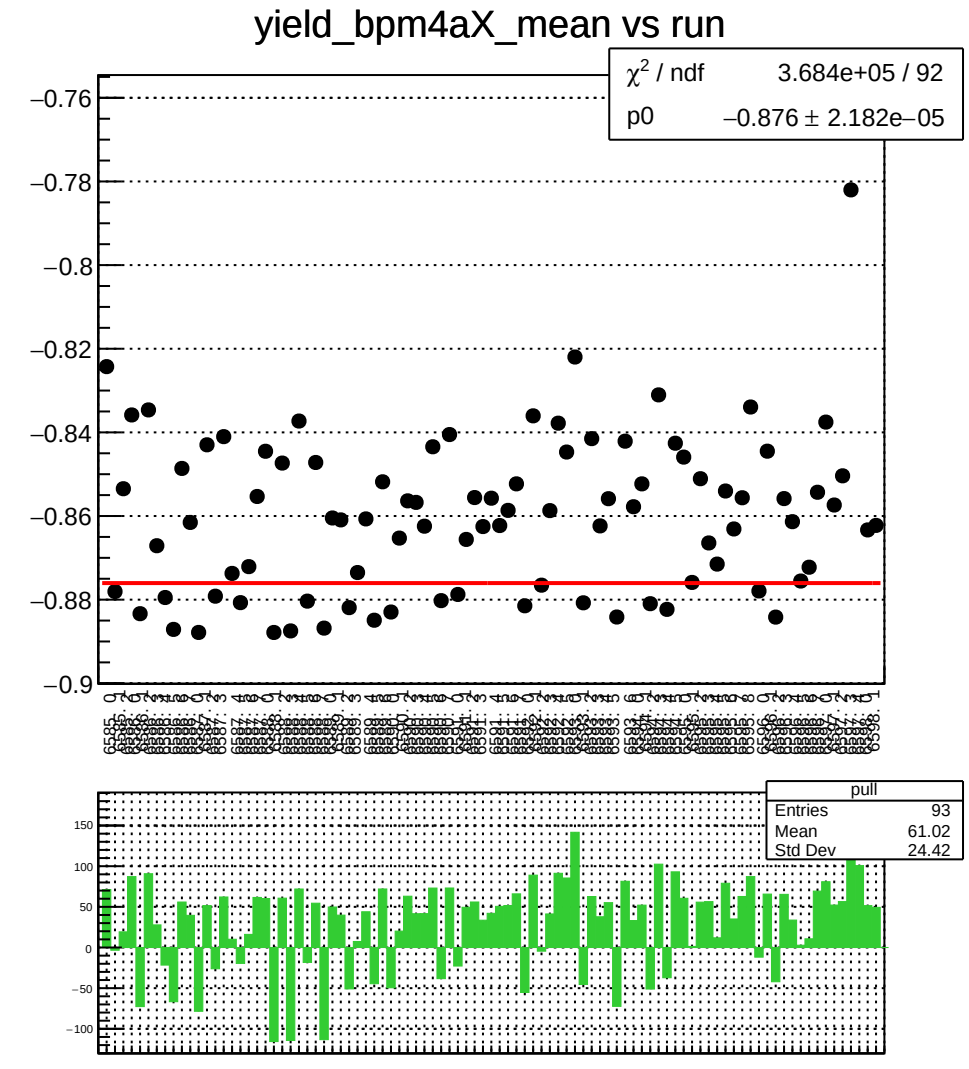

yield_cav4dX_mean vs run
χ² / ndf 6.578e+05 / 92
p0 −1.885 ± 0.0004994
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 93
Mean 65.6
Std Dev 14.85
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 93
Mean −1.015
Std Dev 5.697
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

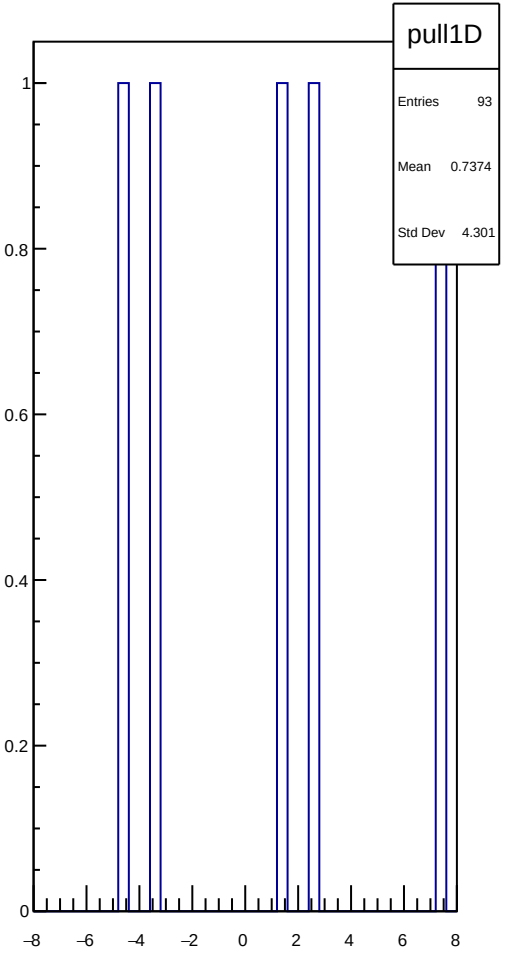

yield_cav4dX_rms vs run
χ^2 / ndf 5.476e+05 / 92
p0 0.3905 ± 0.0003531
3
2.5
2
1.5
1
0.5

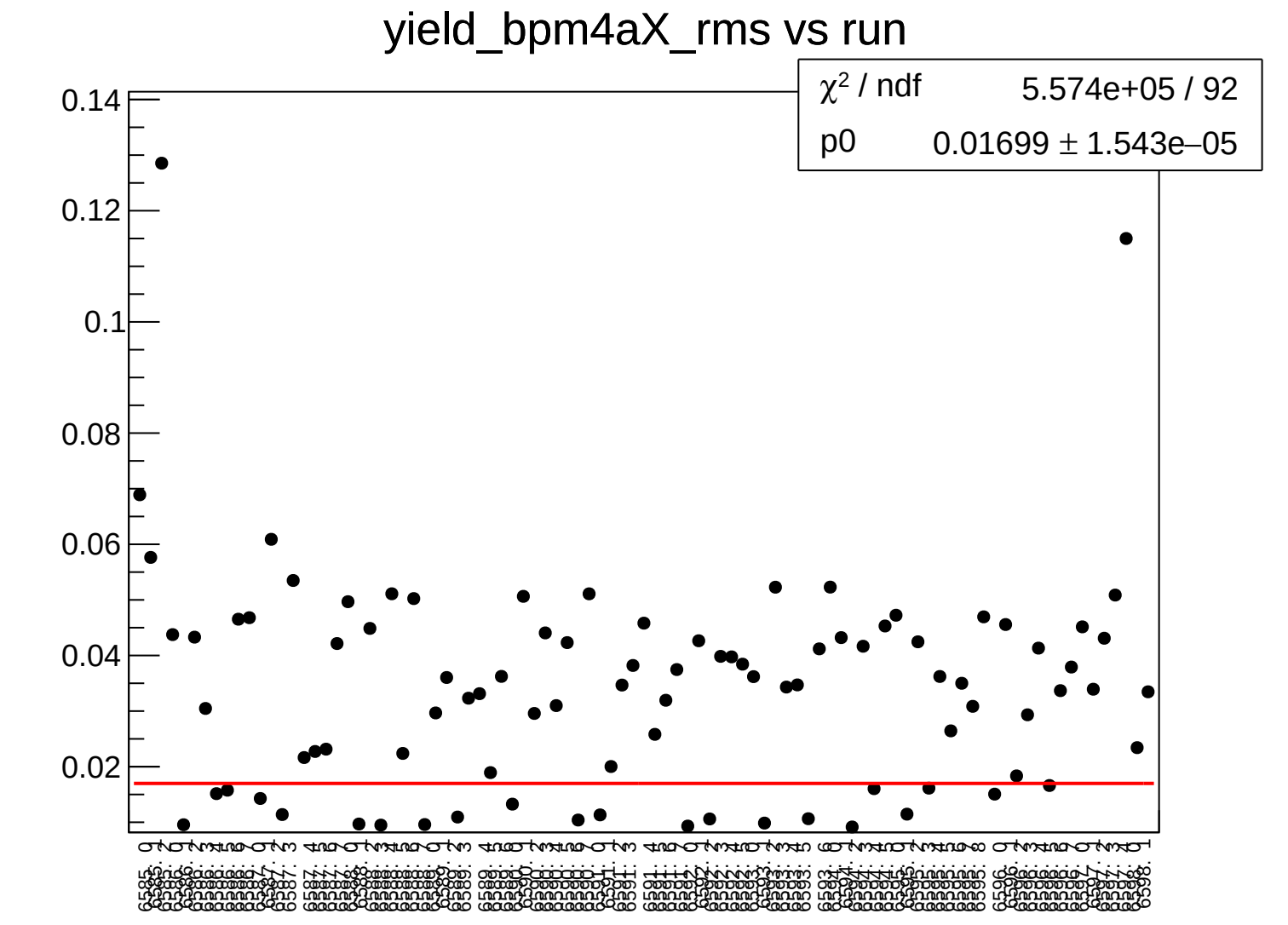

yield_cav4dY_mean vs run
χ² / ndf 1.562e+06 / 92
p0 −32.87 ± 0.0003103
−32
−32.5
−33
−33.5
−34
pull
Entries 93
Mean 139.6
Std Dev 0
300
200
100
0
−100
−200

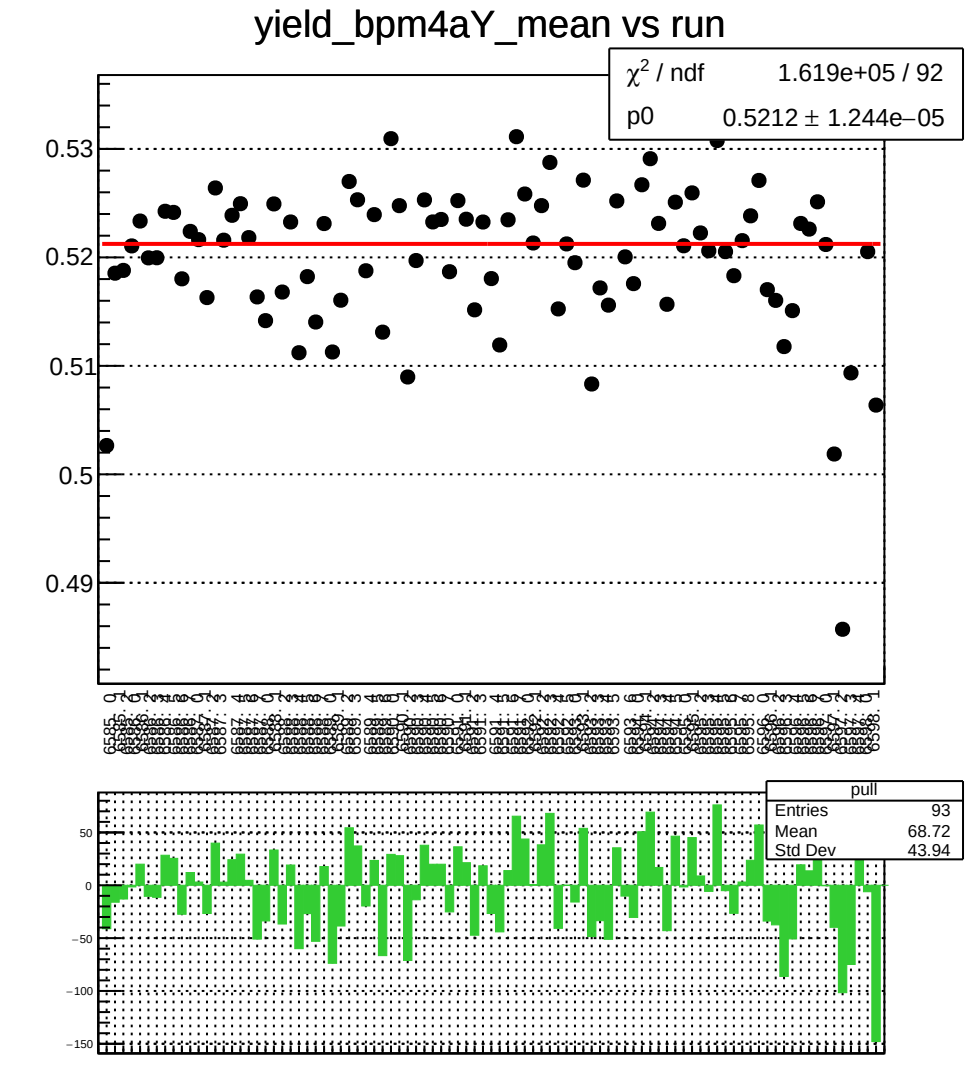

pull1D
Entries 93
Mean −0.604
Std Dev 4.094
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

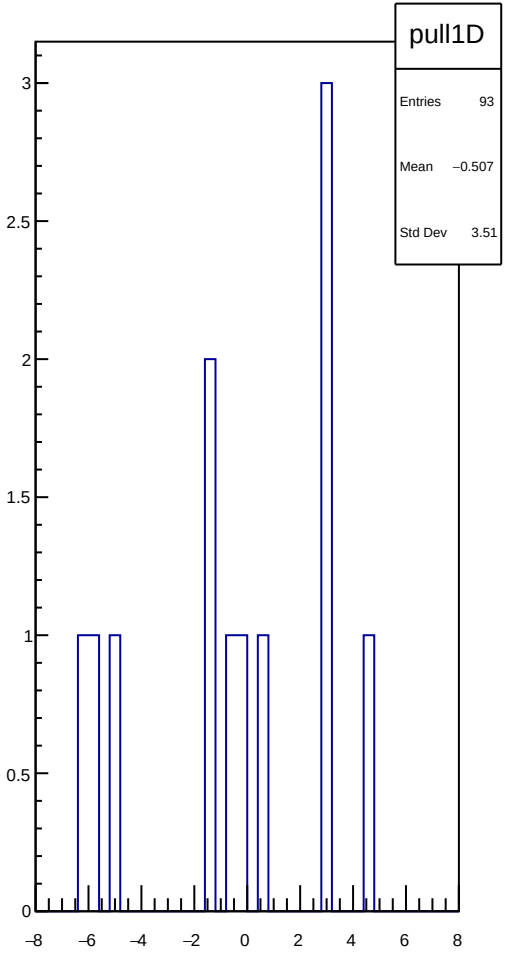

yield_cav4dY_rms vs run
χ² / ndf 8.592e+04 / 92
p0 0.2848 ± 0.0002194
1
0.8
0.6
0.4
0.2

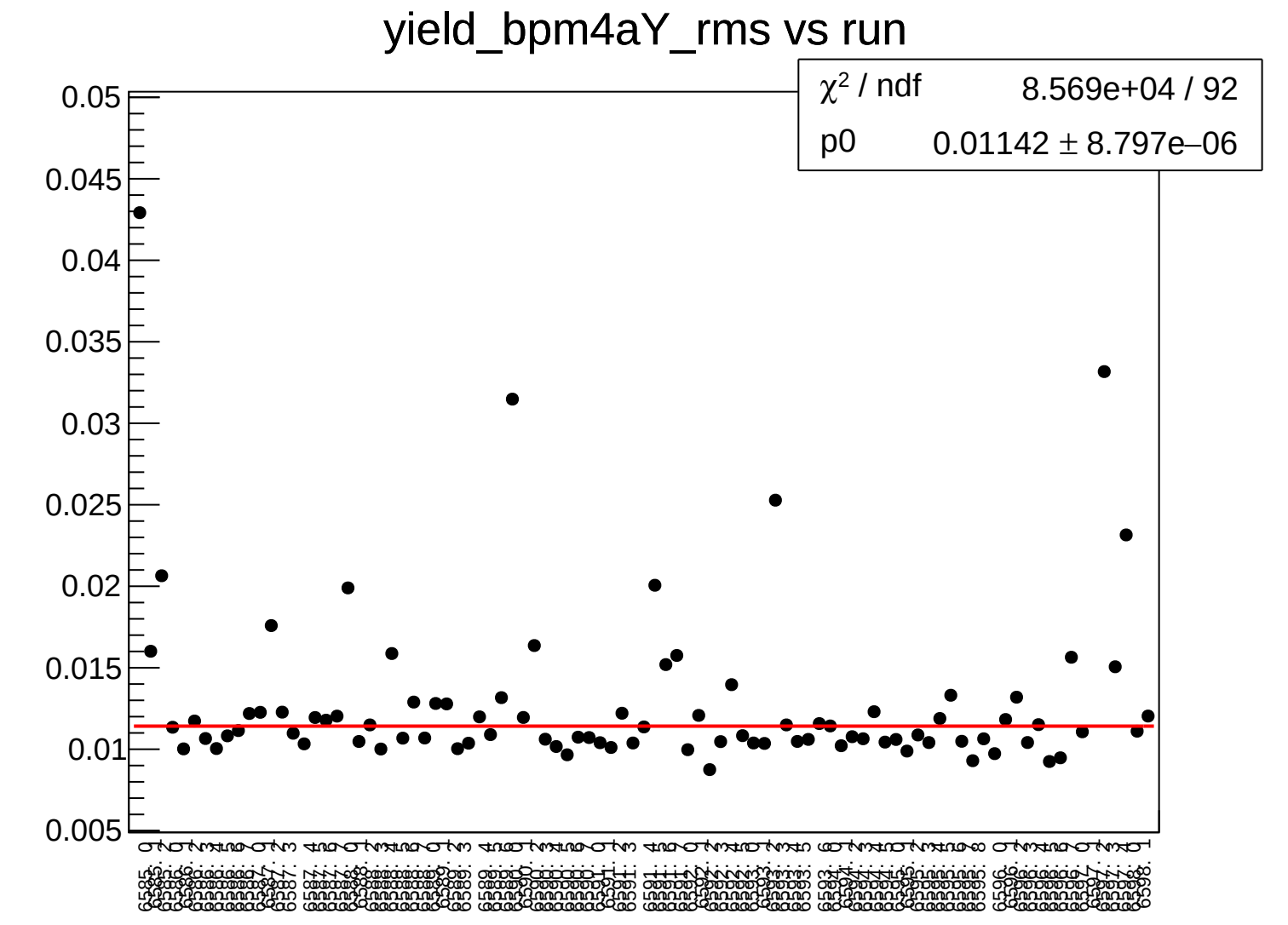

yield_bpm4aX_mean vs run
χ² / ndf 3.684e+05 / 92
p0 −0.876 ± 2.182e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 93
Mean 61.02
Std Dev 24.42
150
100
50
0
−50
−100

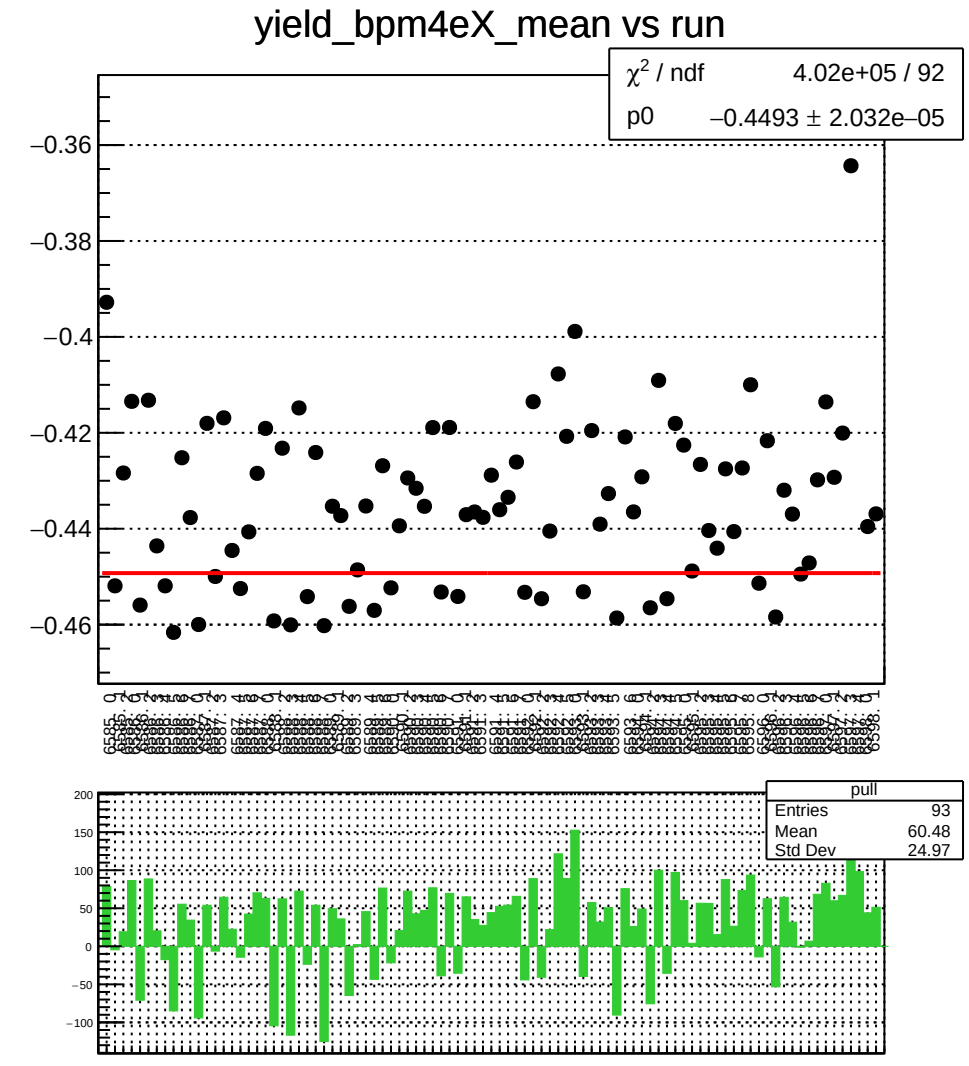

pull1D
Entries 93
Mean 0.7374
Std Dev 4.301
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

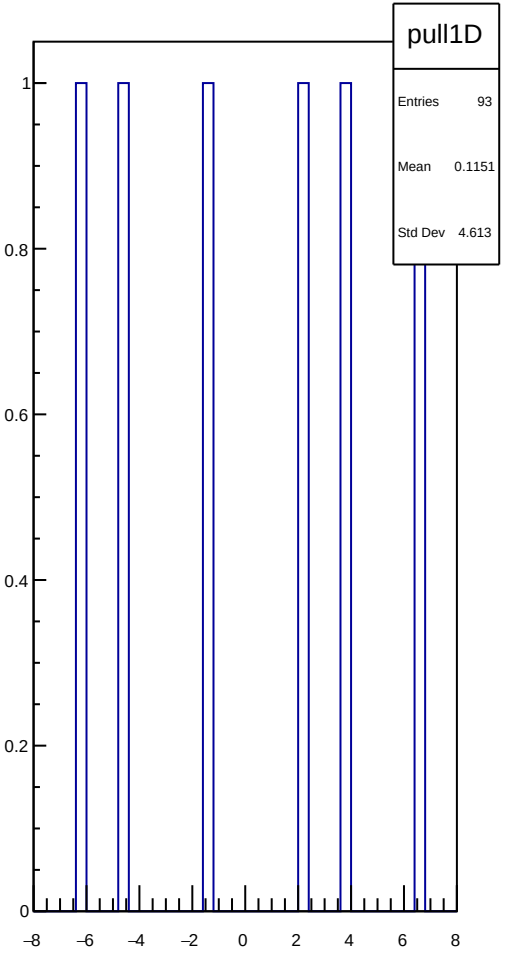

yield_bpm4aX_rms vs run
χ² / ndf 5.574e+05 / 92
p0 0.01699 ± 1.543e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

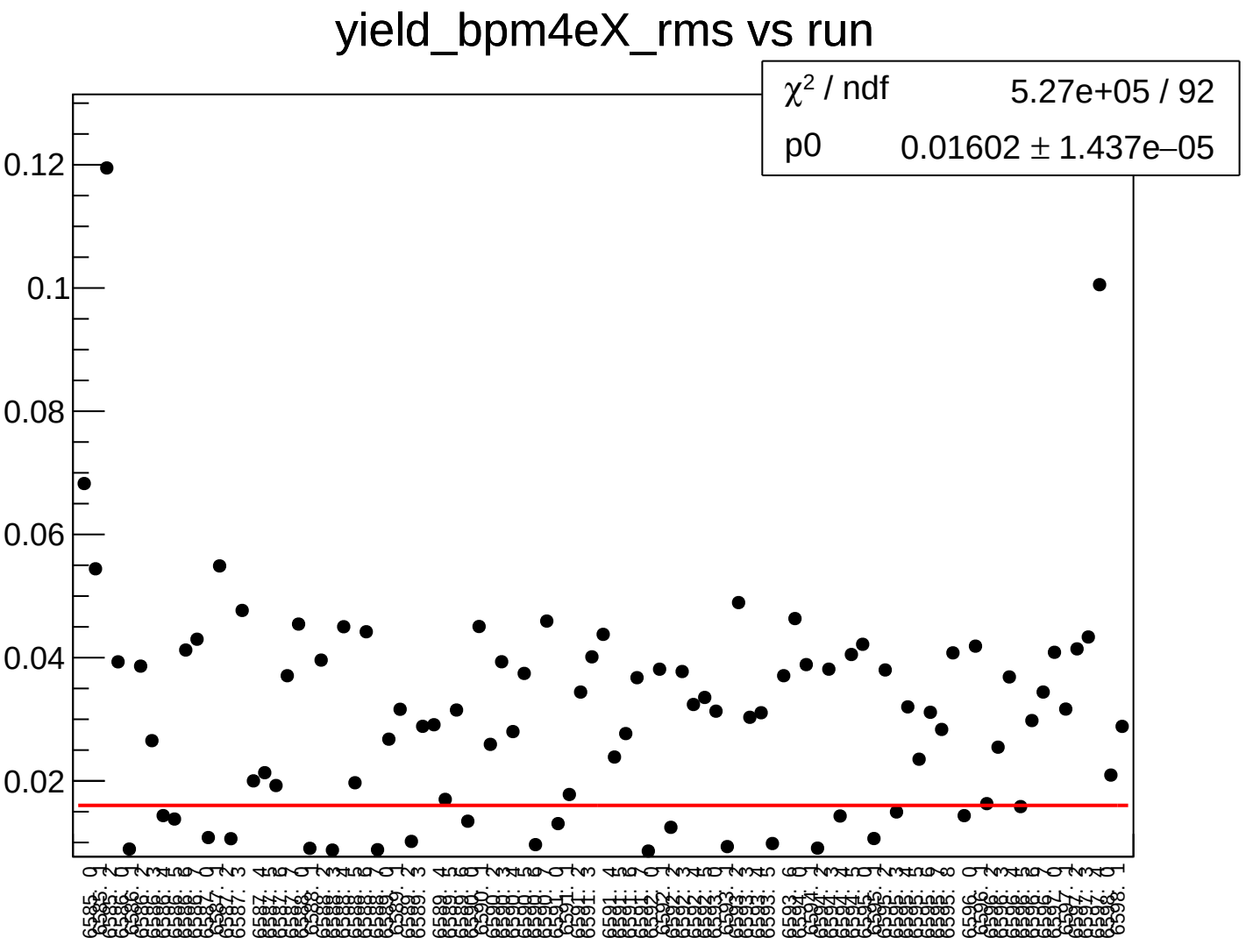

yield_bpm4aY_mean vs run
χ² / ndf 1.619e+05 / 92
p0 0.5212 ± 1.244e−05
0.53
0.52
0.51
0.5
0.49
pull
Entries 93
Mean 68.72
Std Dev 43.94
50
0
−50
−100
−150

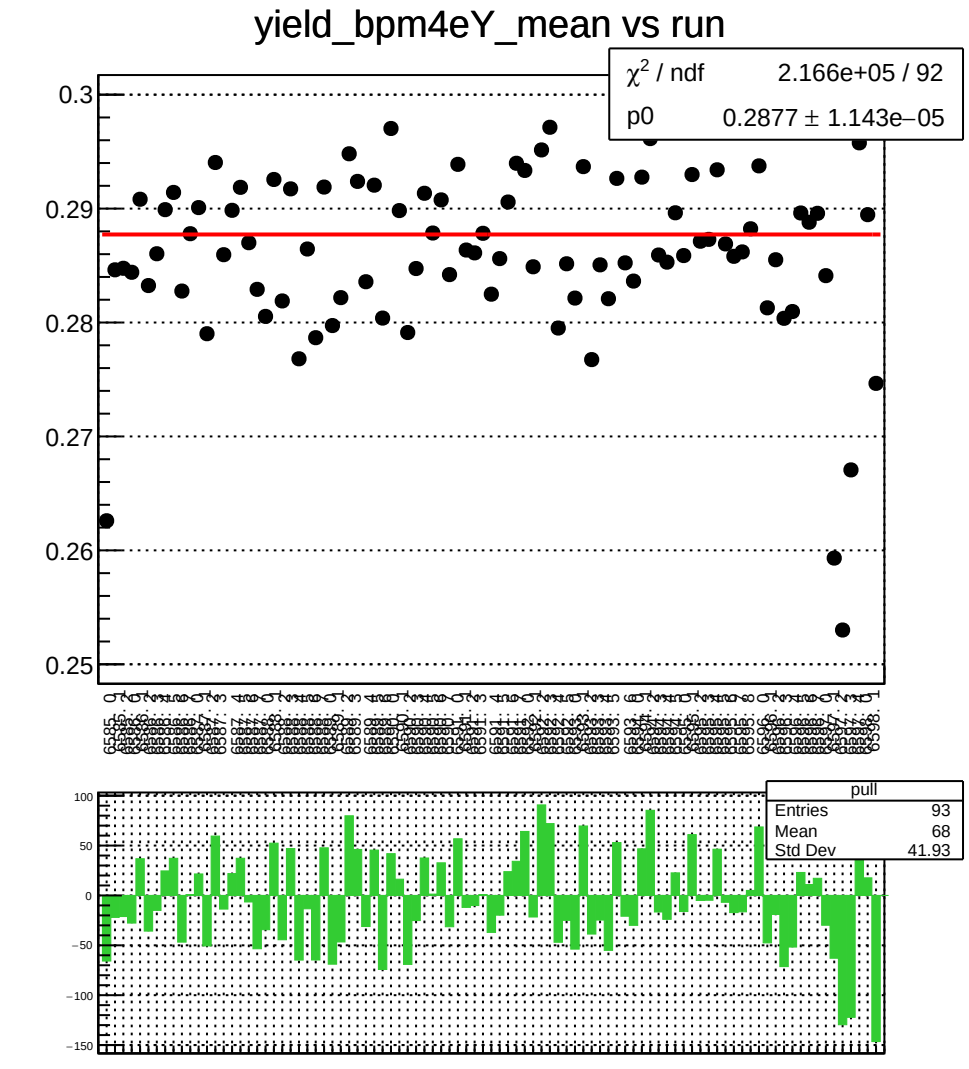

pull1D
Entries 93
Mean −0.507
Std Dev 3.51
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

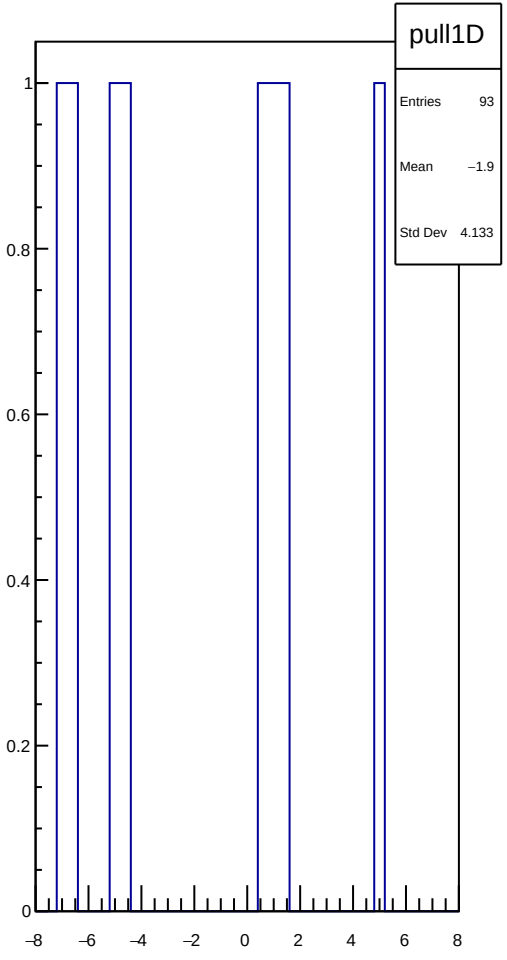

yield_bpm4aY_rms vs run
χ² / ndf 8.569e+04 / 92
p0 0.01142 ± 8.797e–06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

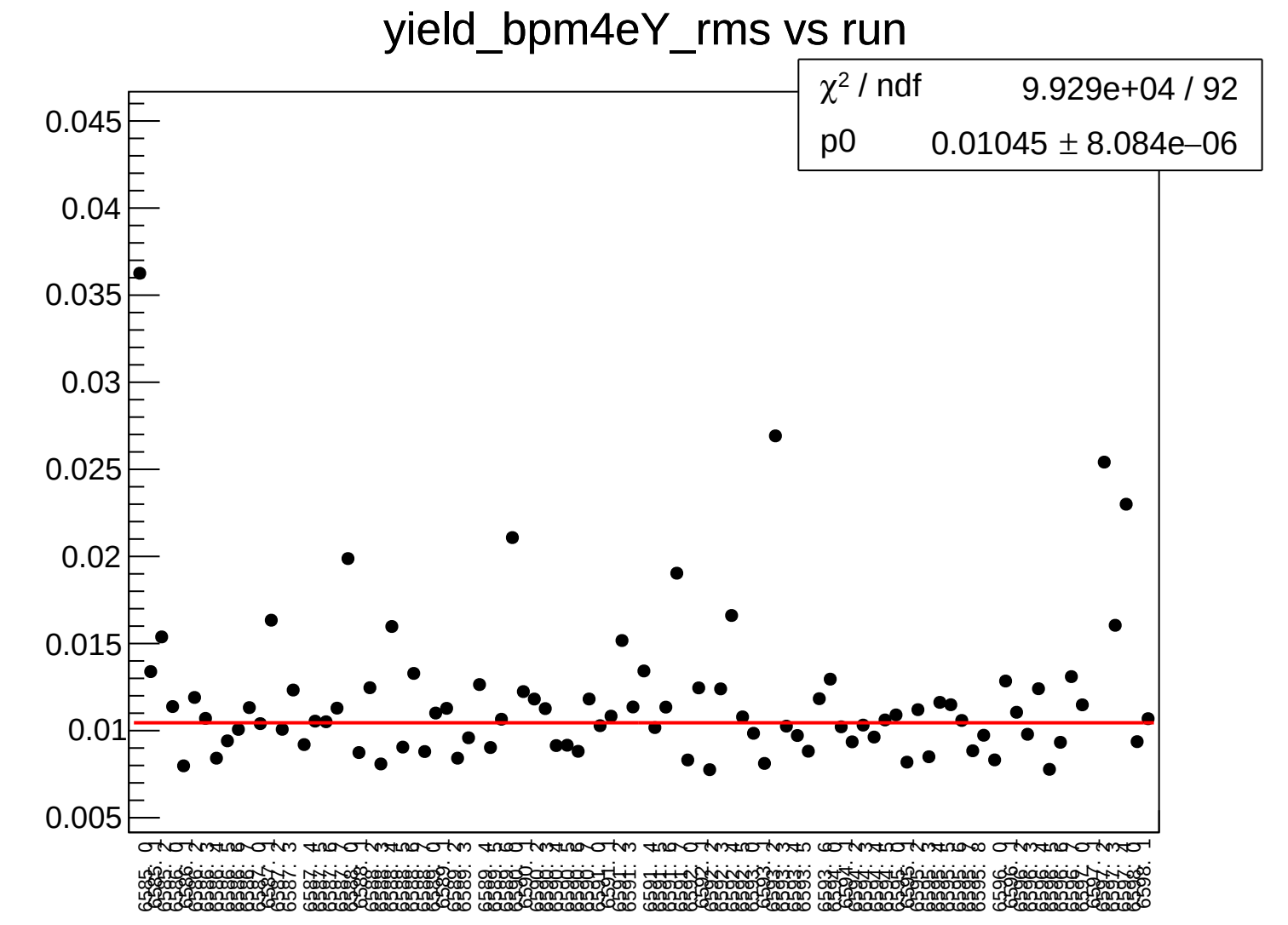

yield_bpm4eX_mean vs run
χ² / ndf 4.02e+05 / 92
p0 −0.4493 ± 2.032e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
pull
Entries 93
Mean 60.48
Std Dev 24.97
200
150
100
50
0
−50
−100

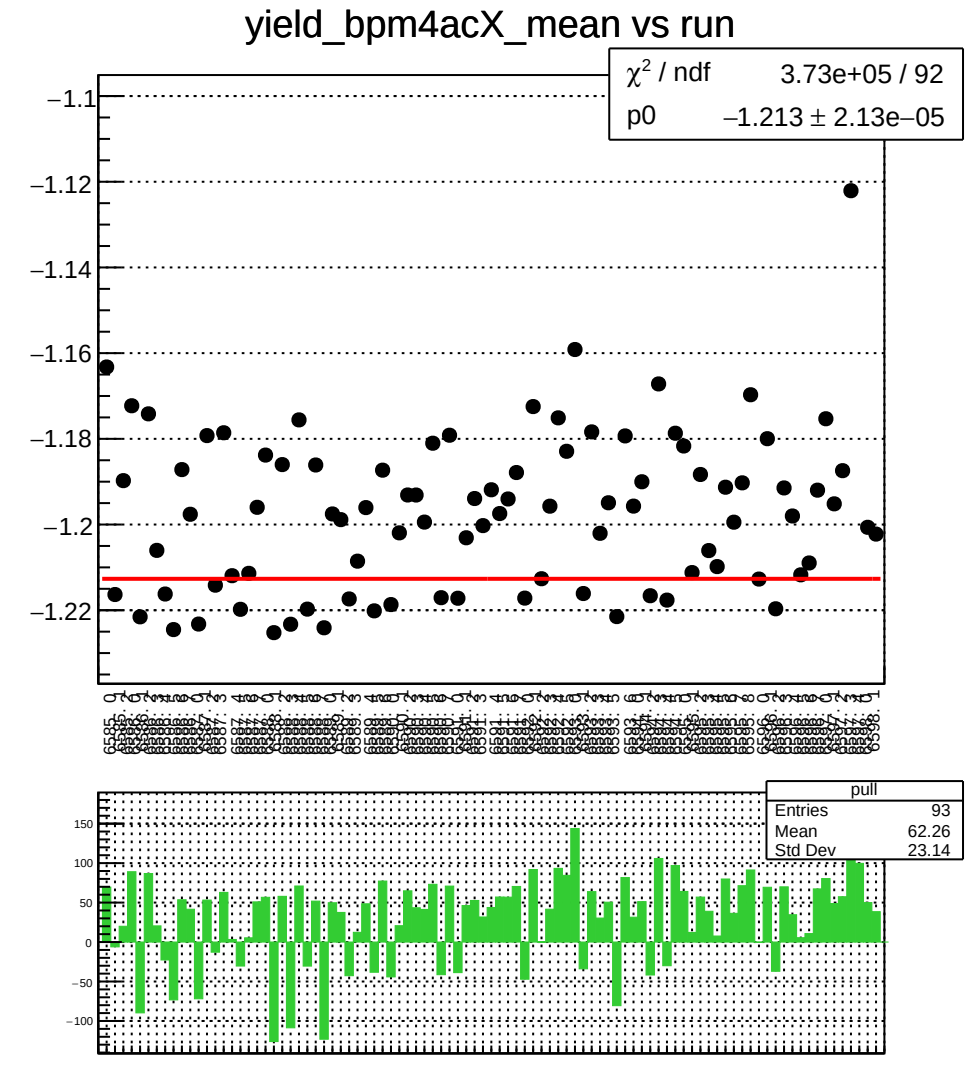

pull1D
Entries 93
Mean 0.1151
Std Dev 4.613
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

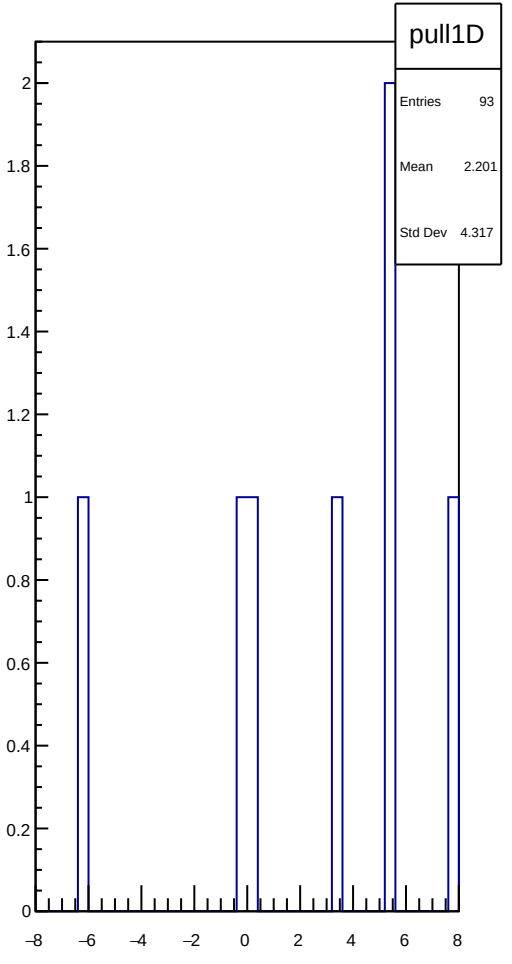

yield_bpm4eX_rms vs run
χ² / ndf 5.27e+05 / 92
p0 0.01602 ± 1.437e−05
0.12
0.1
0.08
0.06
0.04
0.02

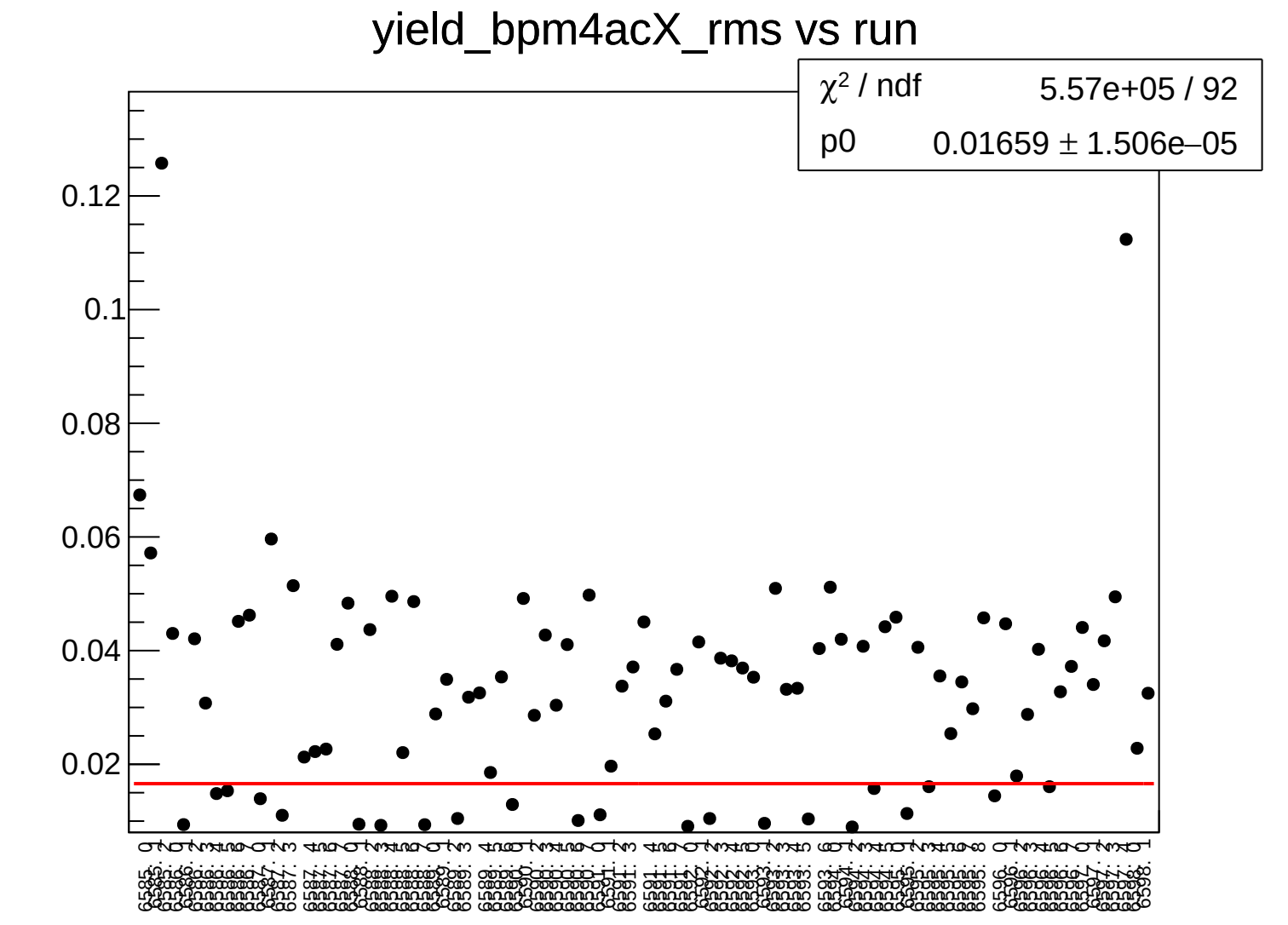

yield_bpm4eY_mean vs run
χ² / ndf 2.166e+05 / 92
p0 0.2877 ± 1.143e−05
0.3
0.29
0.28
0.27
0.26
0.25
pull
Entries 93
Mean 68
Std Dev 41.93
100
50
0
−50
−100
−150

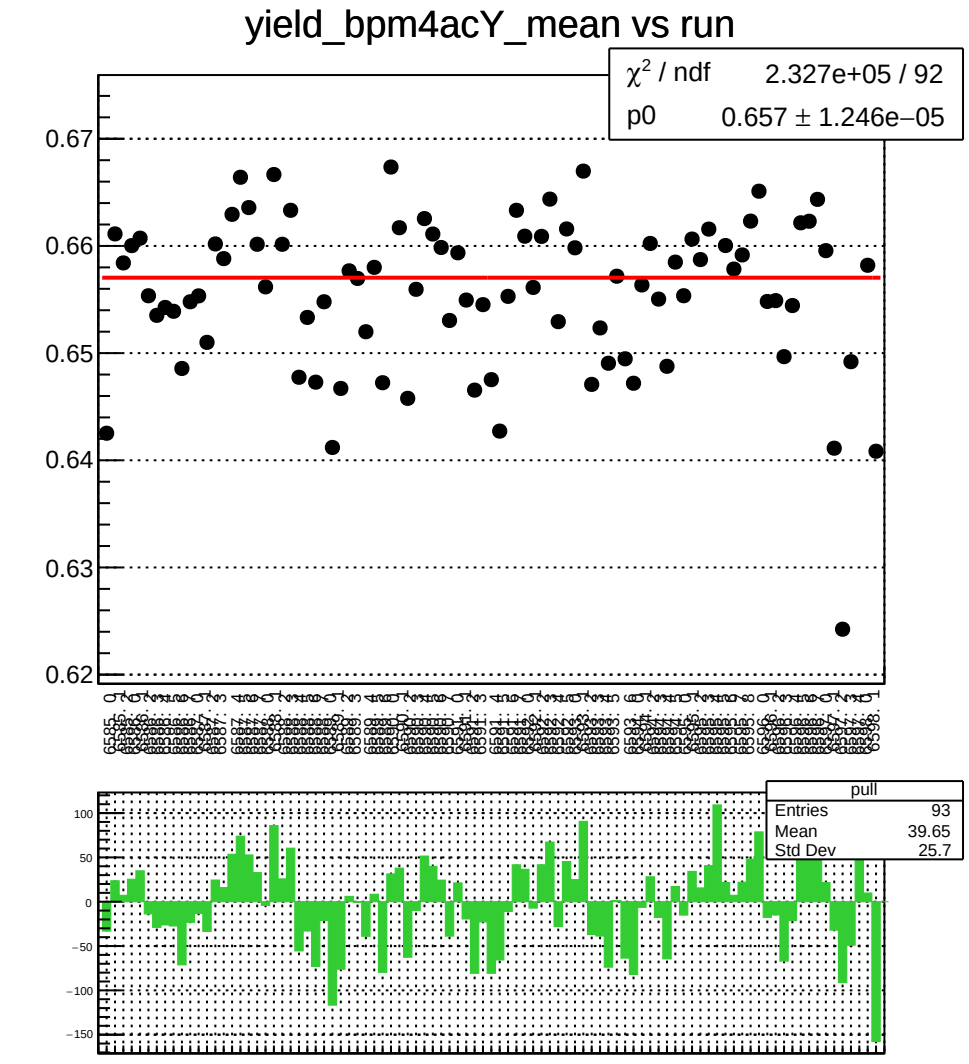

pull1D
Entries 93
Mean −1.9
Std Dev 4.133
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

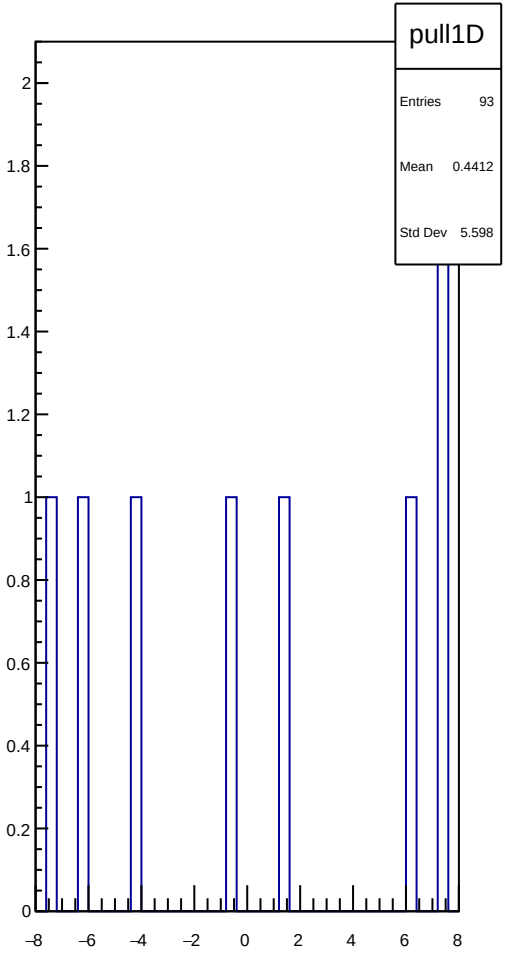

yield_bpm4eY_rms vs run
χ² / ndf 9.929e+04 / 92
p0 0.01045 ± 8.084e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

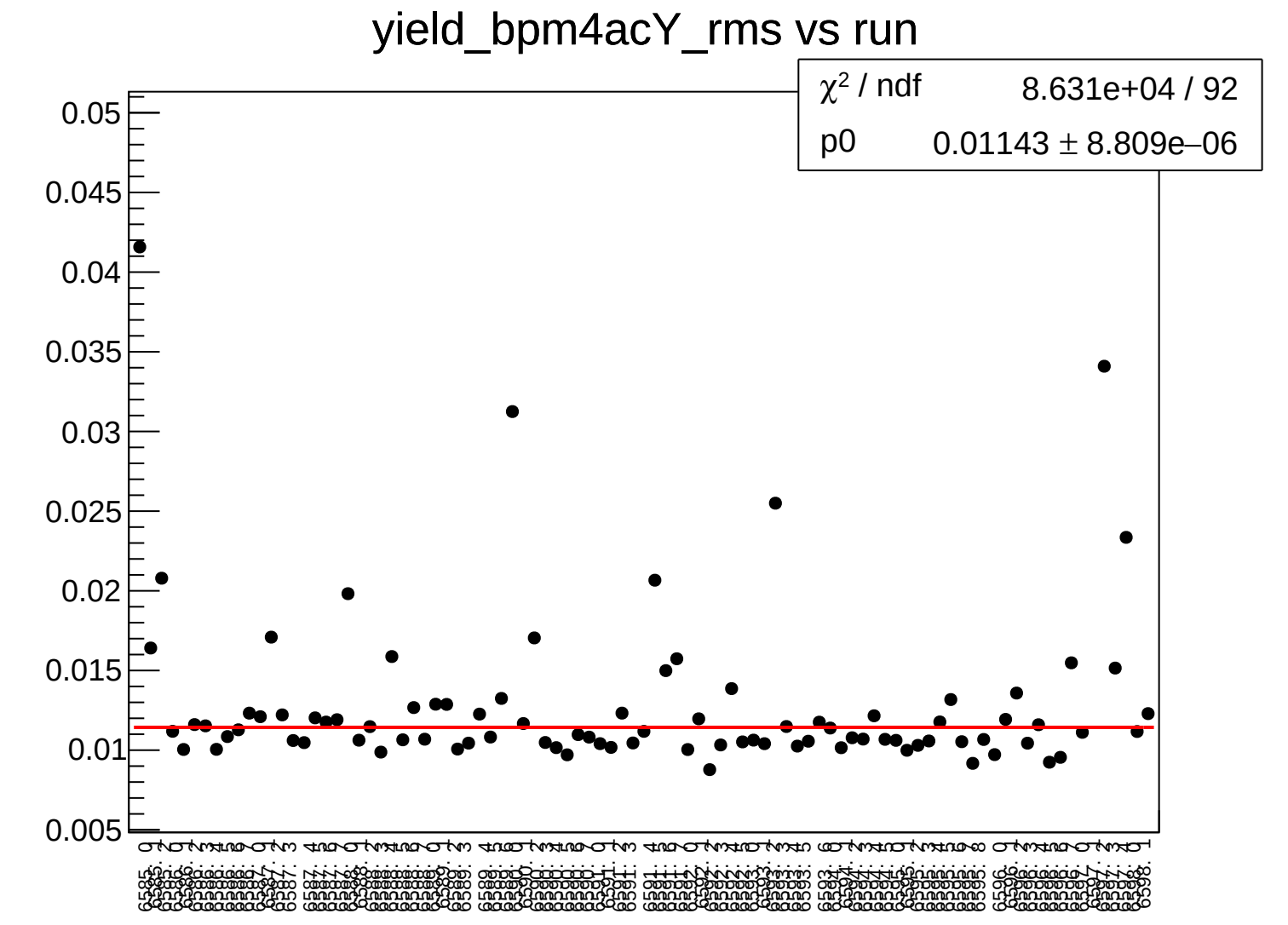

yield_bpm4acX_mean vs run
χ² / ndf 3.73e+05 / 92
p0 −1.213 ± 2.13e−05
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
pull
Entries 93
Mean 62.26
Std Dev 23.14
150
100
50
0
−50
−100

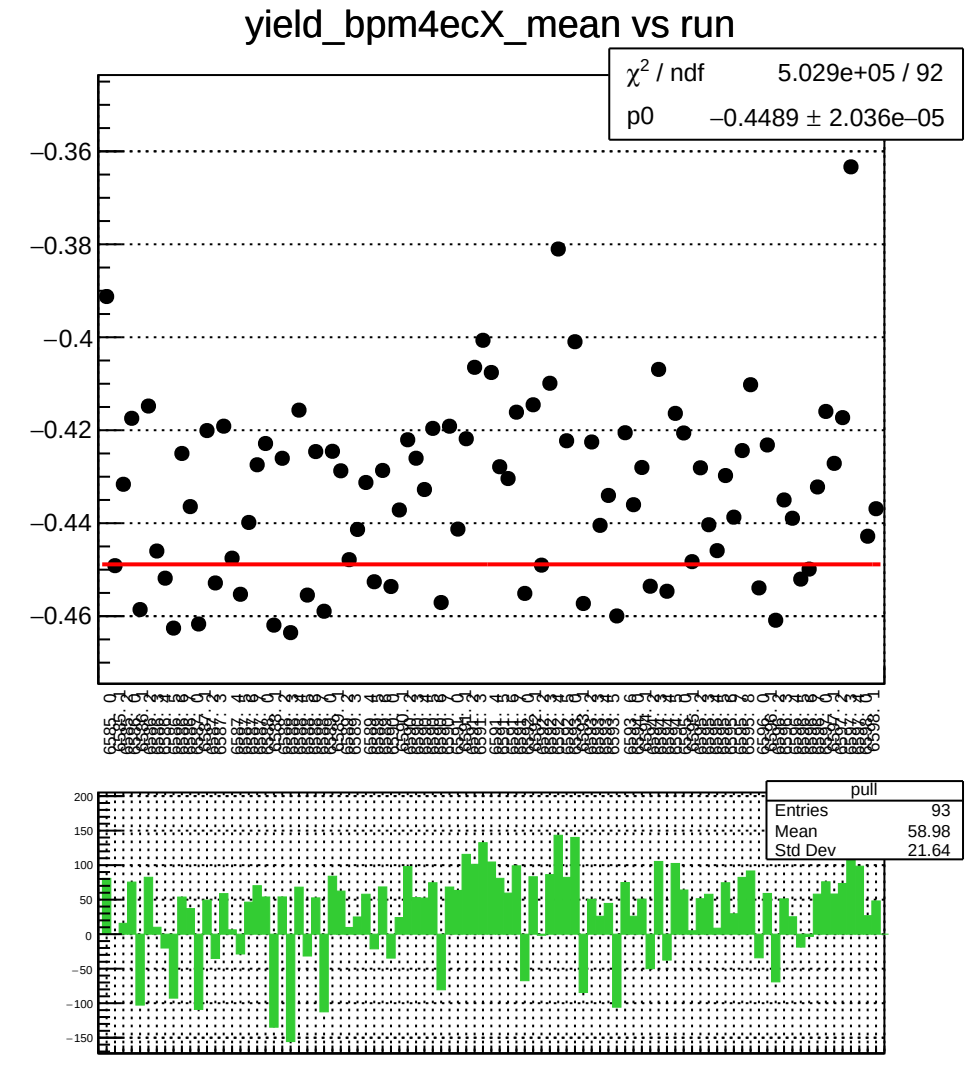

pull1D
Entries 93
Mean 2.201
Std Dev 4.317
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

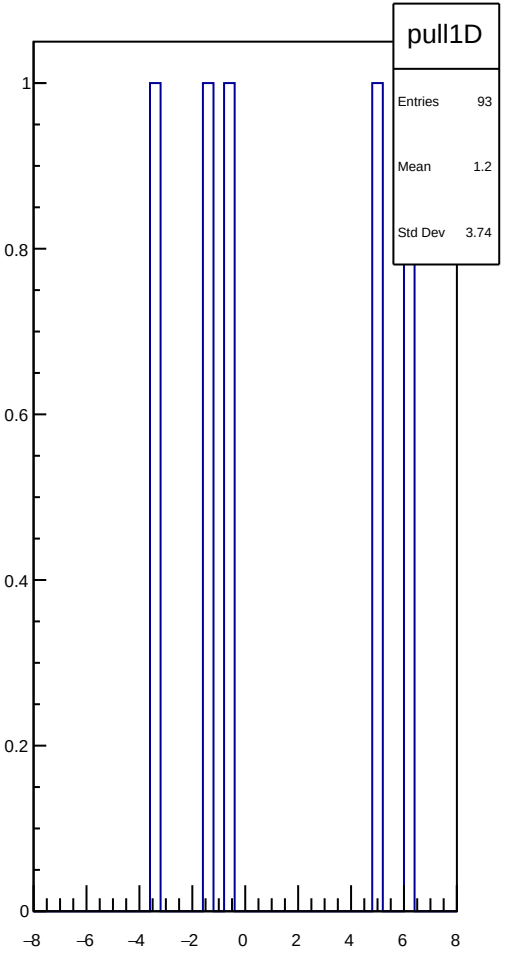

yield_bpm4acX_rms vs run
χ^2 / ndf 5.57e+05 / 92
p0 0.01659 ± 1.506e−05
0.12
0.1
0.08
0.06
0.04
0.02

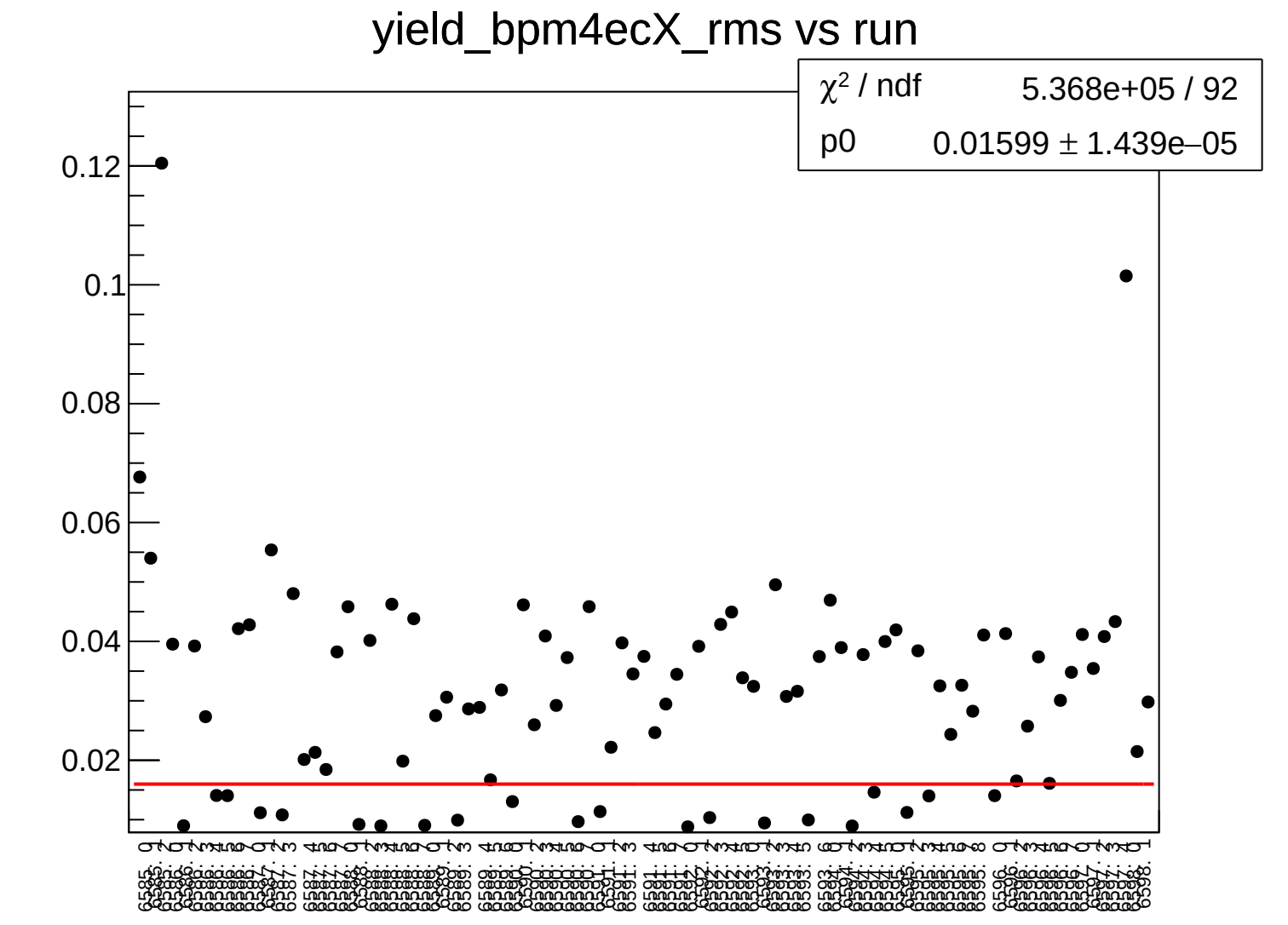

yield_bpm4acY_mean vs run
χ² / ndf 2.327e+05 / 92
p0 0.657 ± 1.246e−05
0.67
0.66
0.65
0.64
0.63
0.62
pull
Entries 93
Mean 39.65
Std Dev 25.7
100
50
0
−50
−100
−150

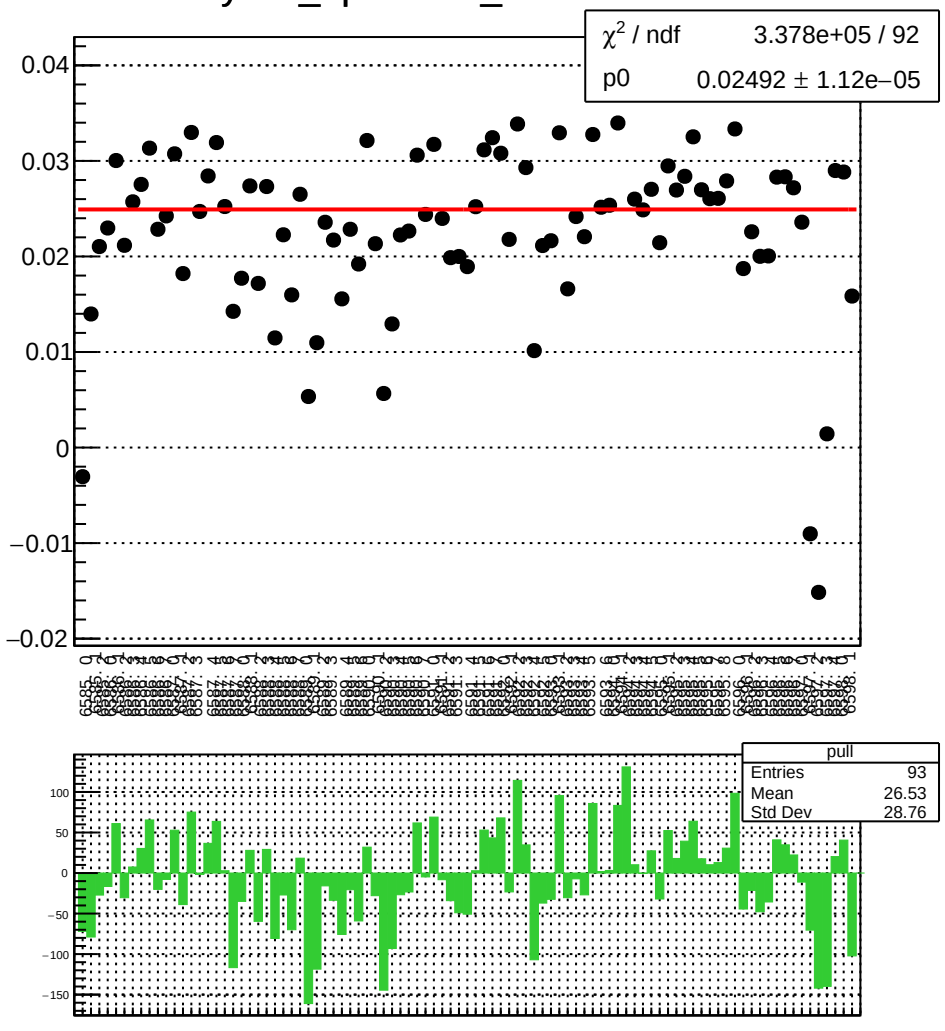

pull1D
Entries 93
Mean 0.4412
Std Dev 5.598
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

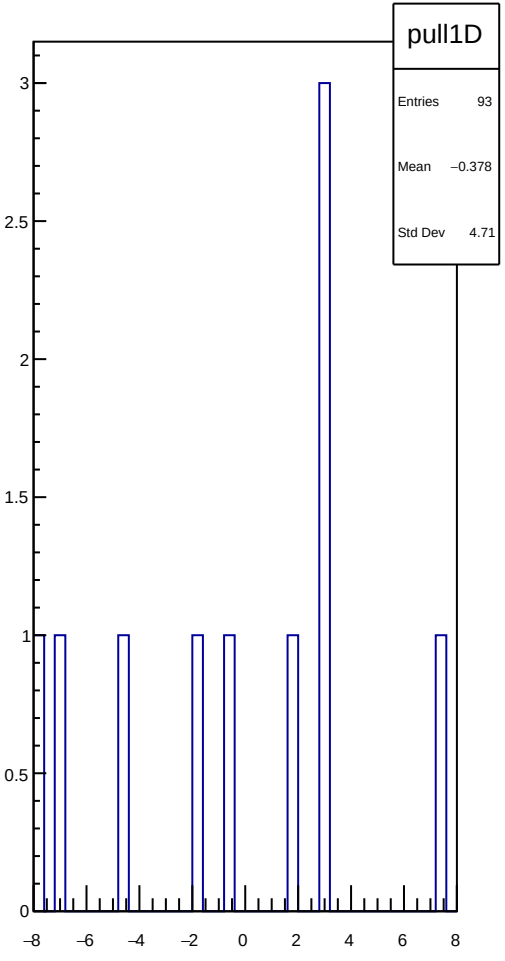

yield_bpm4acY_rms vs run
χ² / ndf 8.631e+04 / 92
p0 0.01143 ± 8.809e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

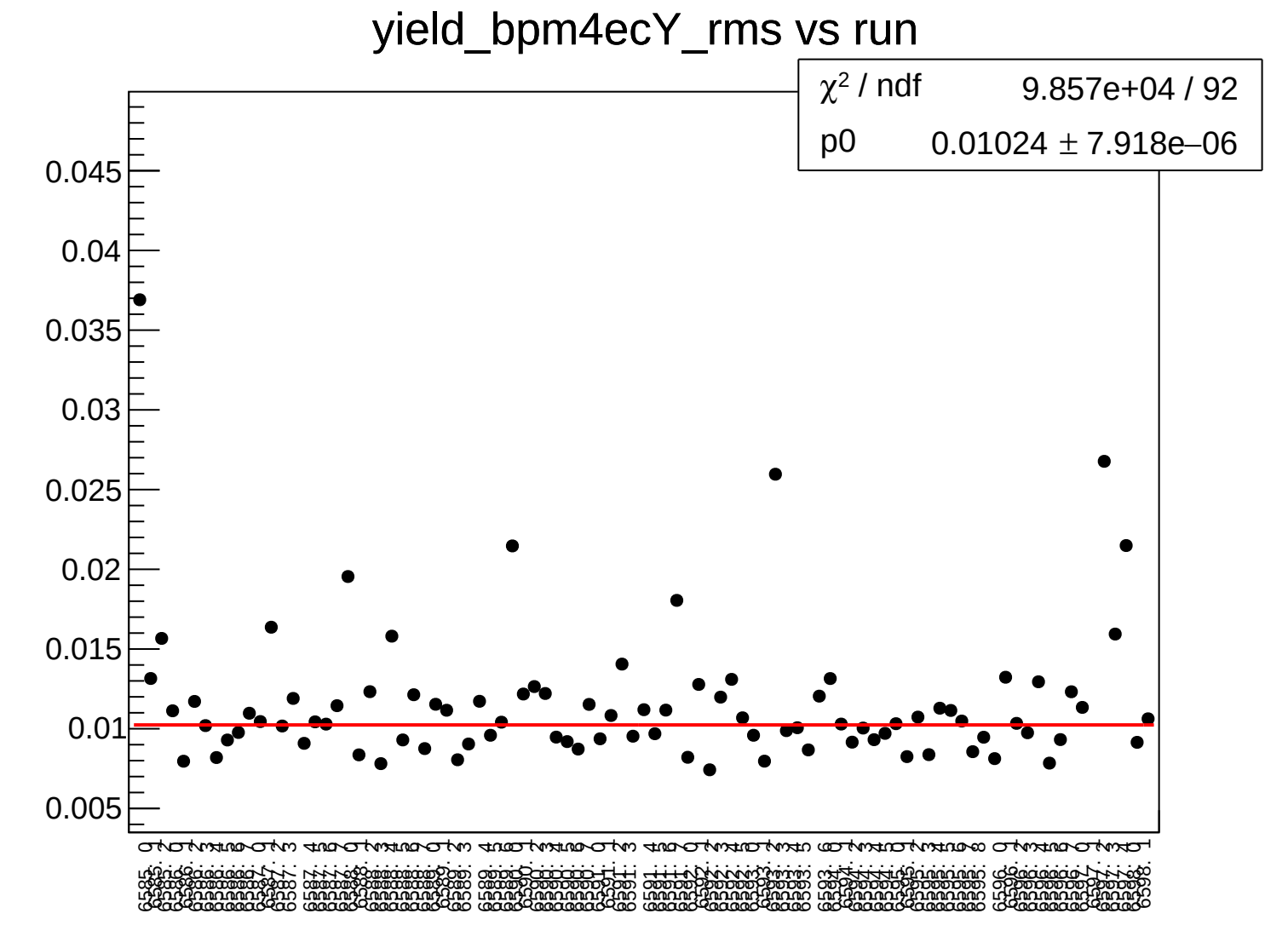

yield_bpm4ecX_mean vs run
χ² / ndf 5.029e+05 / 92
p0 −0.4489 ± 2.036e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
pull
Entries 93
Mean 58.98
Std Dev 21.64
200
150
100
50
0
−50
−100
−150

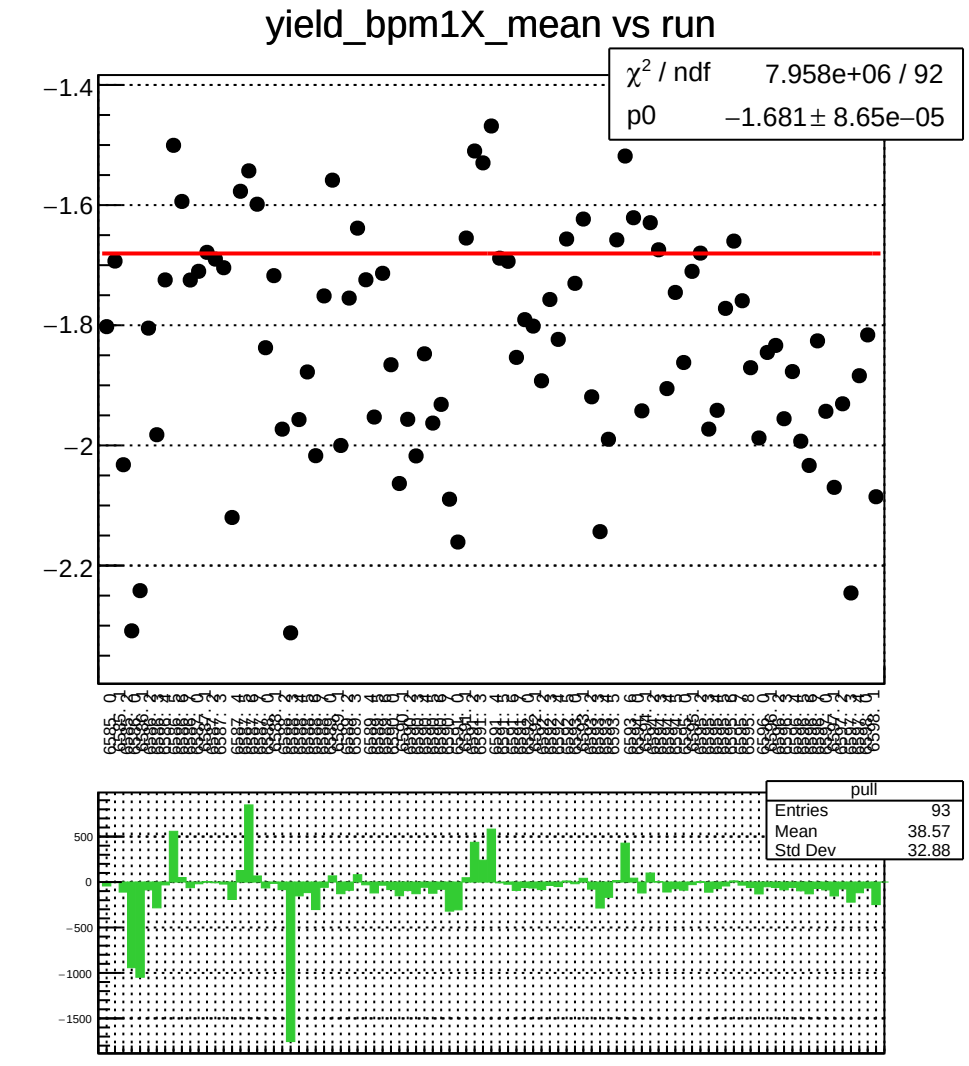

pull1D
Entries 93
Mean 1.2
Std Dev 3.74
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

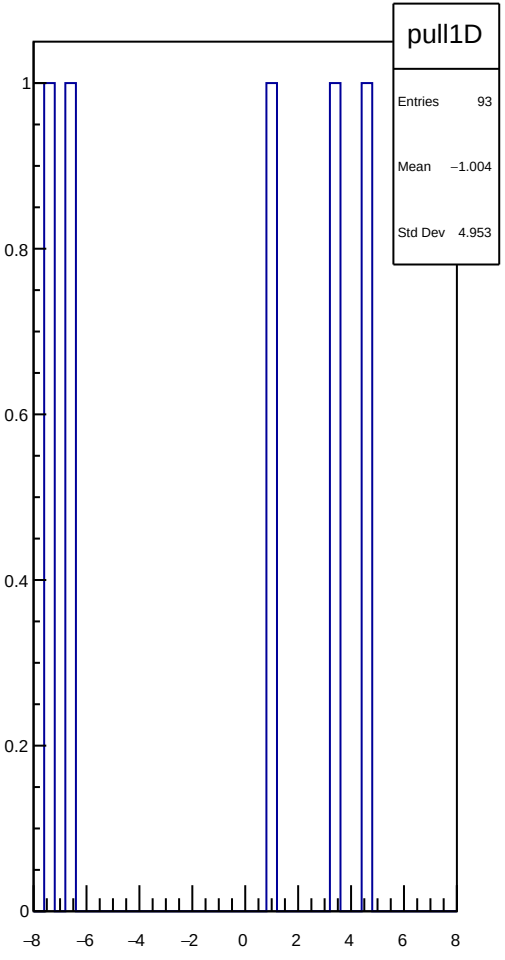

yield_bpm4ecX_rms vs run
χ² / ndf 5.368e+05 / 92
p0 0.01599 ± 1.439e−05
0.12
0.1
0.08
0.06
0.04
0.02

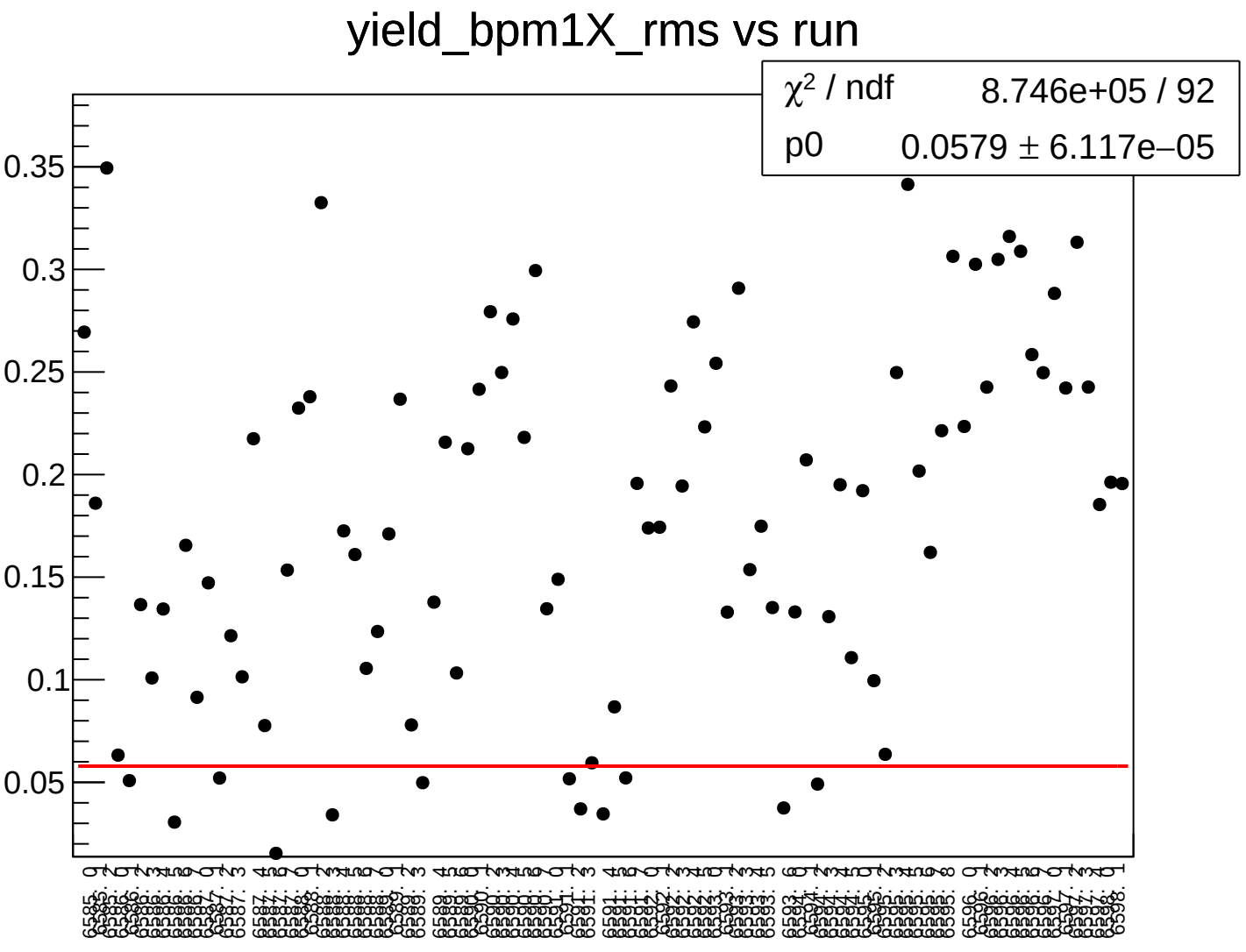

yield_bpm4ecY_mean vs run
χ² / ndf 3.378e+05 / 92
p0 0.02492 ± 1.12e−05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 26.53
Std Dev 28.76
100
50
0
−50
−100
−150

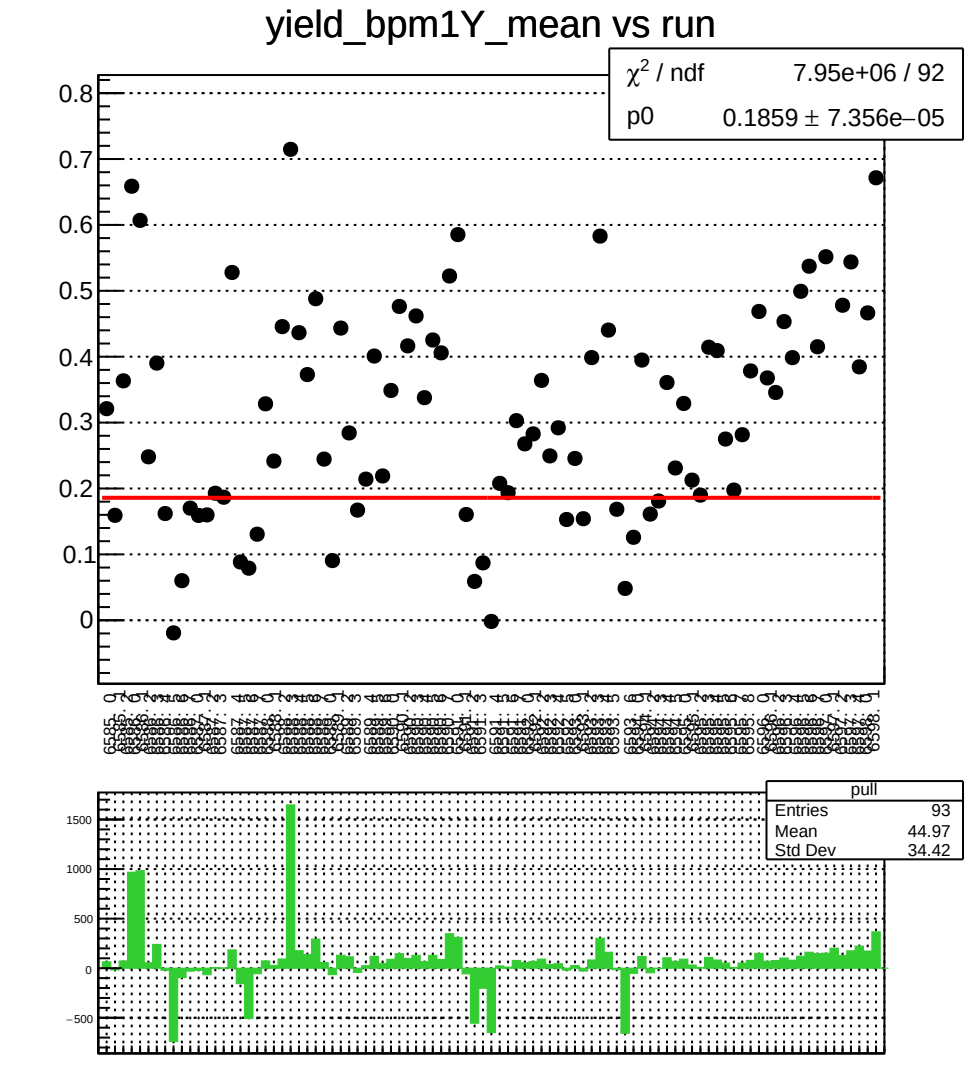

pull1D
Entries 93
Mean −0.378
Std Dev 4.71
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

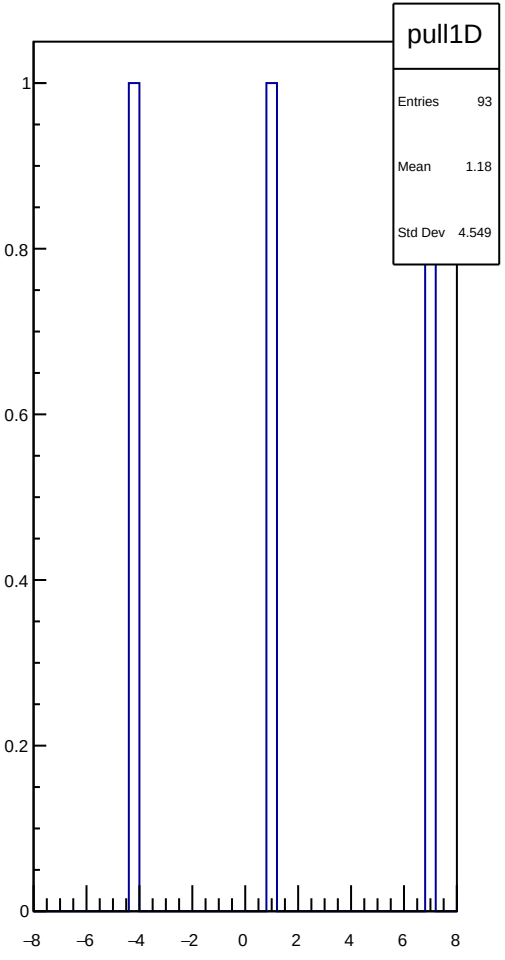

yield_bpm4ecY_rms vs run
χ² / ndf 9.857e+04 / 92
p0 0.01024 ± 7.918e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

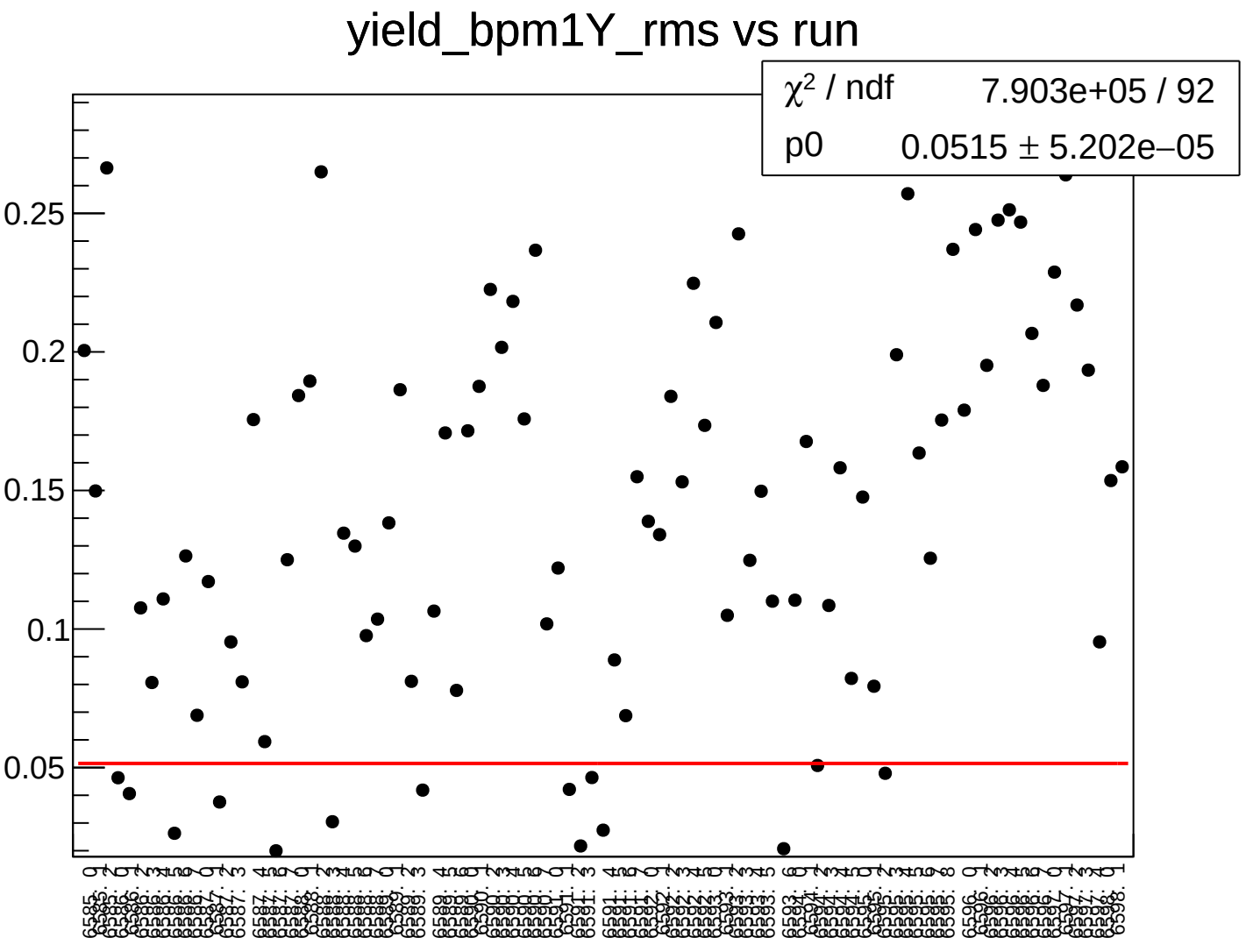

yield_bpm1X_mean vs run
χ² / ndf 7.958e+06 / 92
p0 −1.681 ± 8.65e−05
−1.4
−1.6
−1.8
−2
−2.2
pull
Entries 93
Mean 38.57
Std Dev 32.88
500
0
−500
−1000
−1500

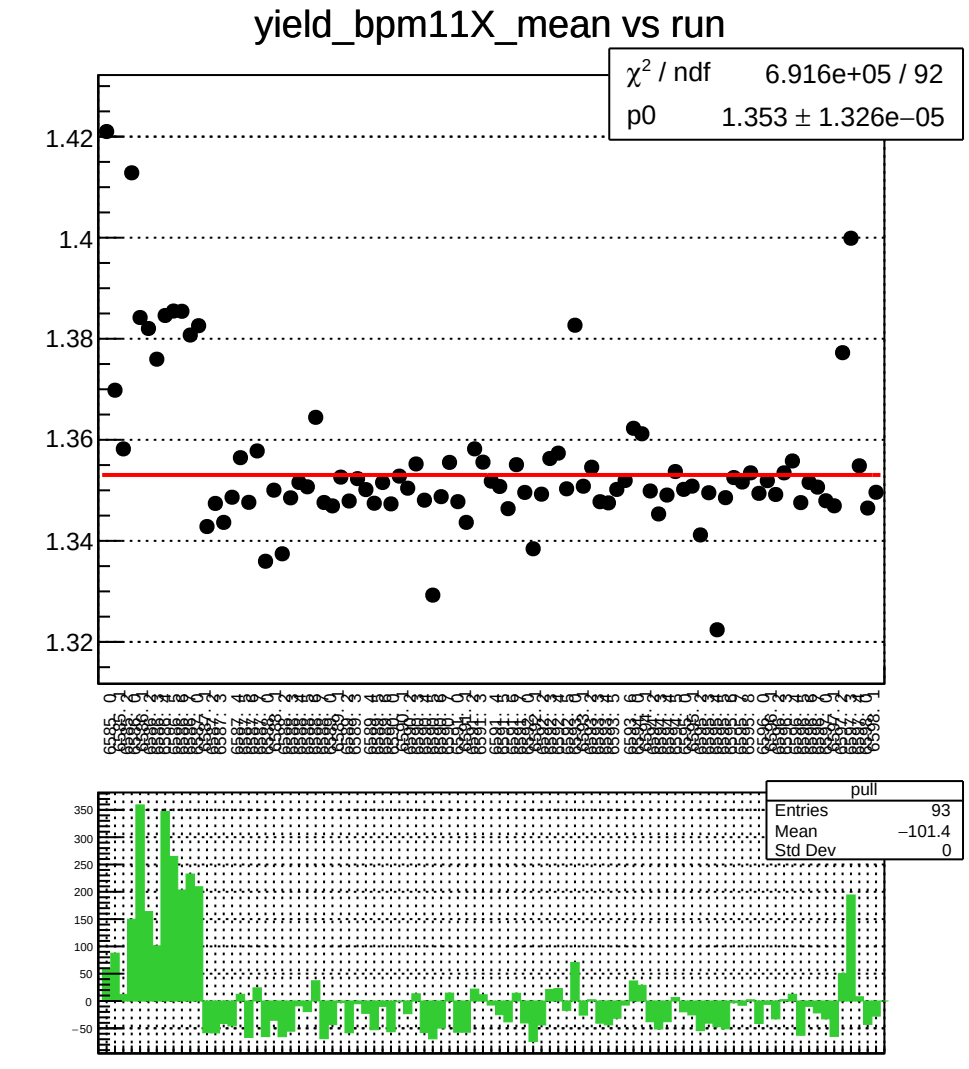

pull1D
Entries 93
Mean −1.004
Std Dev 4.953
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

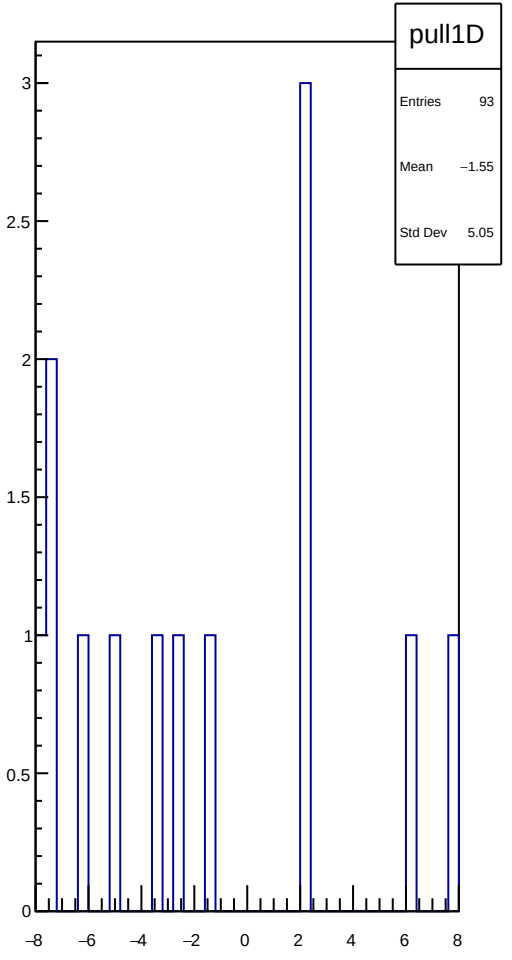

yield_bpm1X_rms vs run
χ² / ndf 8.746e+05 / 92
p0 0.0579 ± 6.117e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

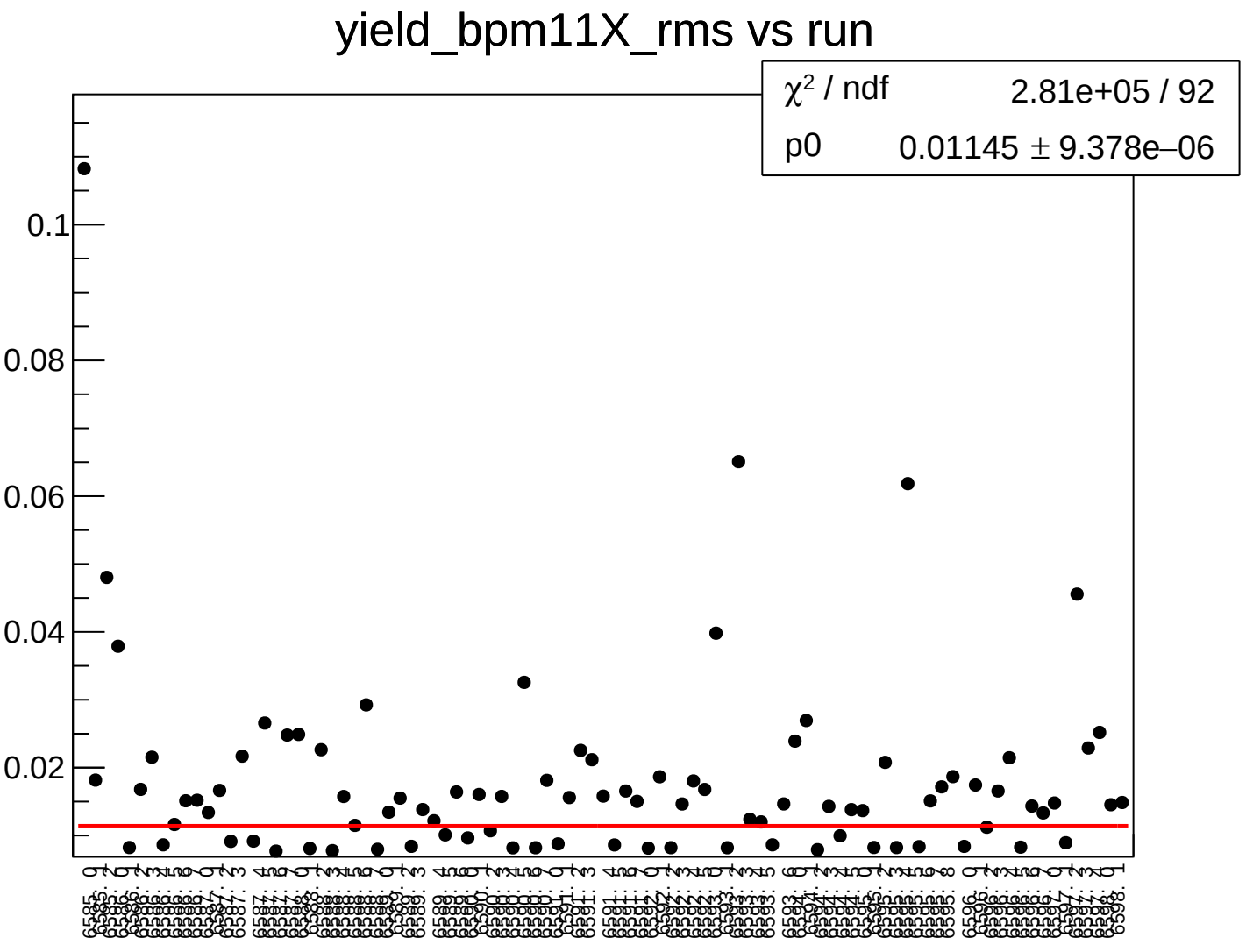

yield_bpm1Y_mean vs run
χ² / ndf 7.95e+06 / 92
p0 0.1859 ± 7.356e−05
pull
Entries 93
Mean 44.97
Std Dev 34.42

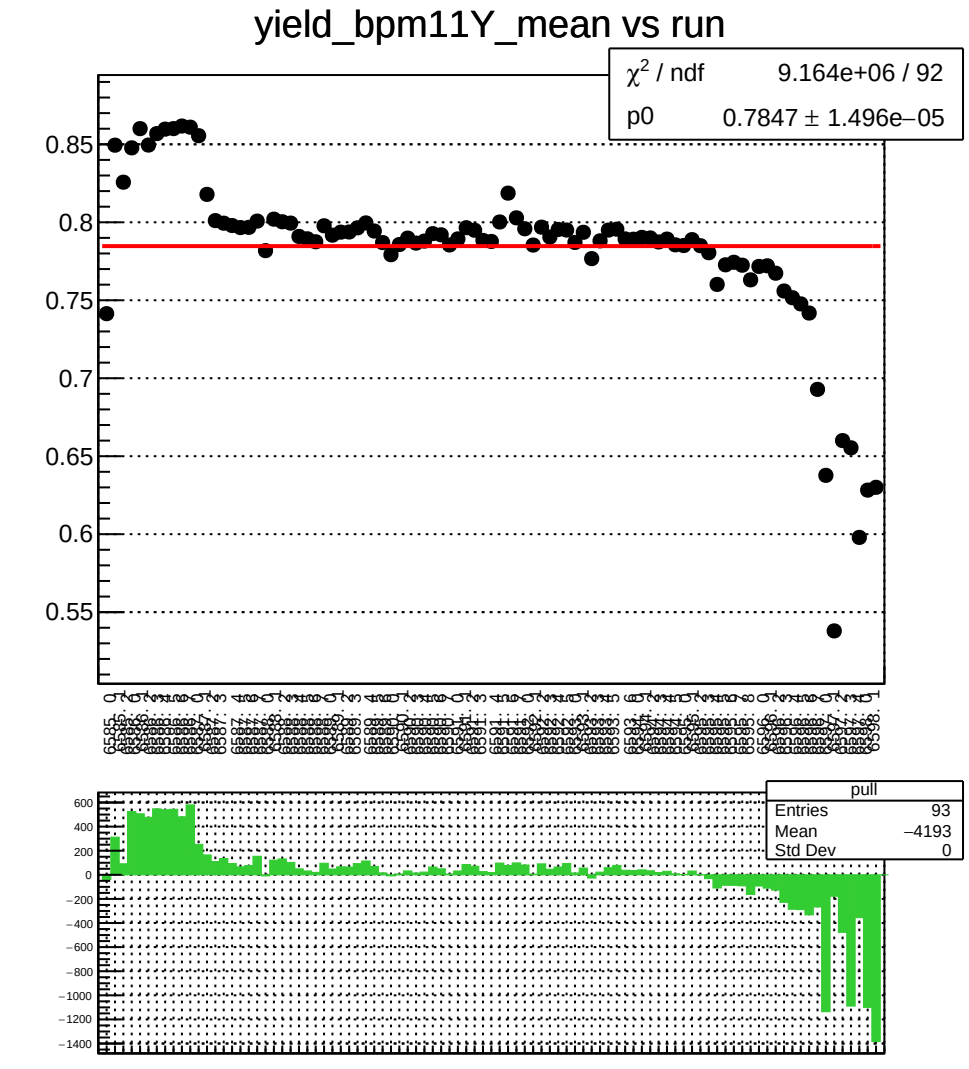

pull1D
Entries 93
Mean 1.18
Std Dev 4.549

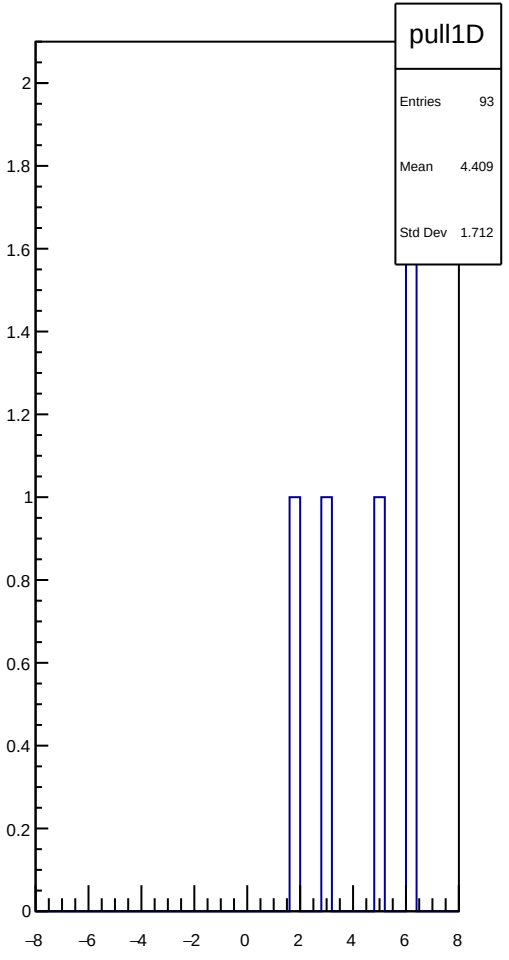

yield_bpm1Y_rms vs run
χ² / ndf 7.903e+05 / 92
p0 0.0515 ± 5.202e−05
0.25
0.2
0.15
0.1
0.05

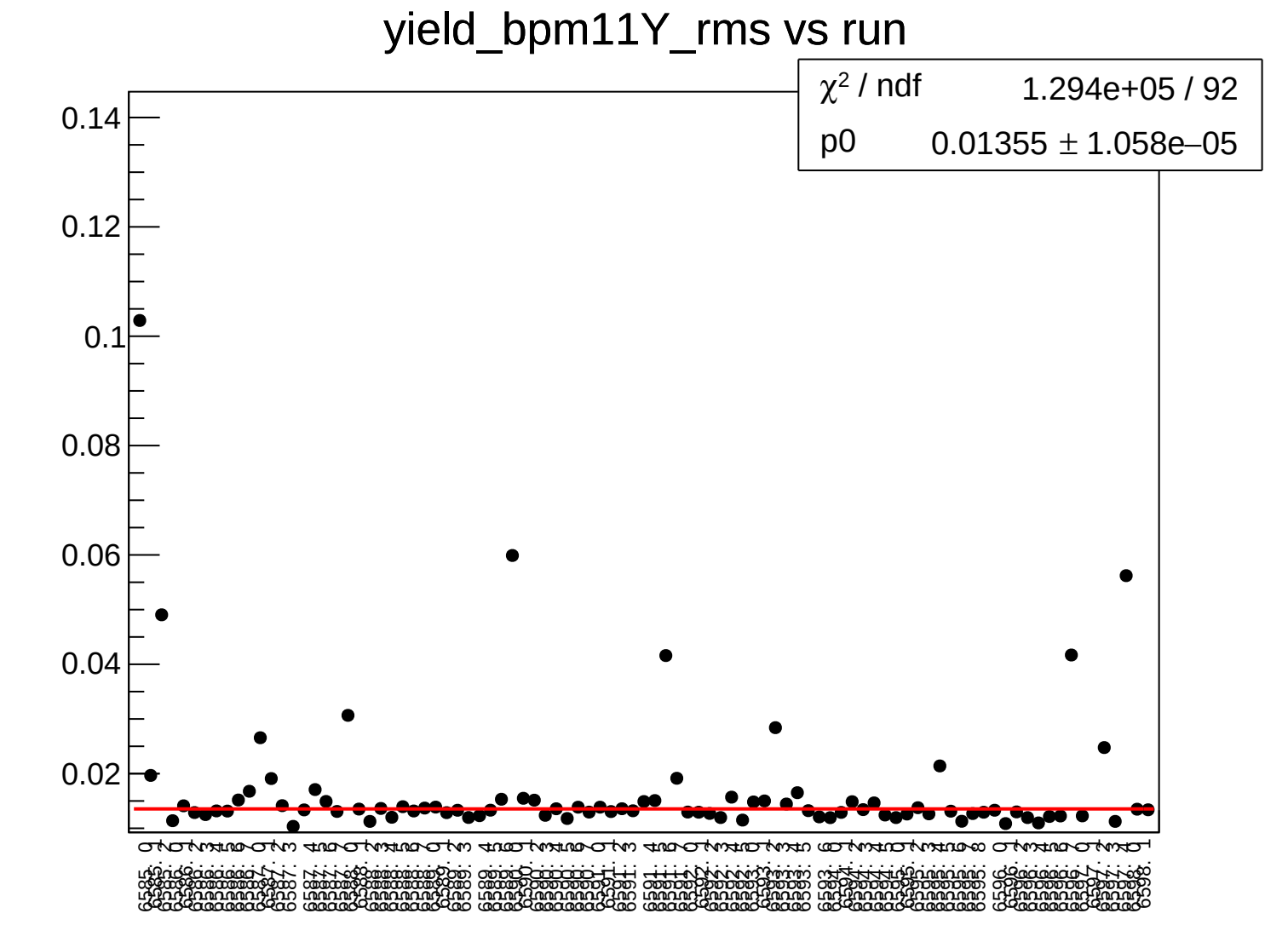

yield_bpm11X_mean vs run
χ² / ndf 6.916e+05 / 92
p0 1.353 ± 1.326e−05
1.42
1.4
1.38
1.36
1.34
1.32
pull
Entries 93
Mean −101.4
Std Dev 0
350
300
250
200
150
100
50
0
−50

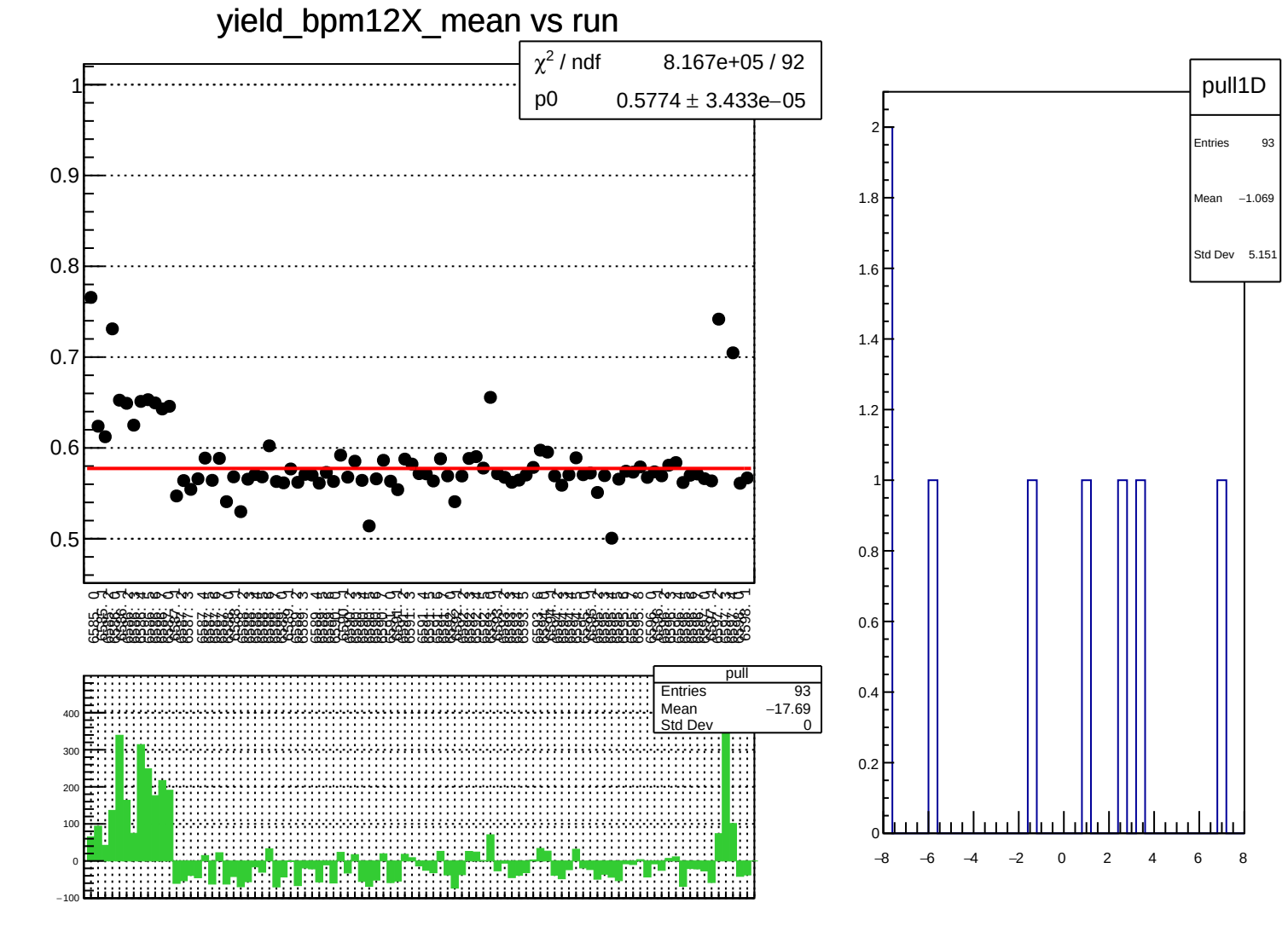

pull1D
Entries 93
Mean −1.55
Std Dev 5.05
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

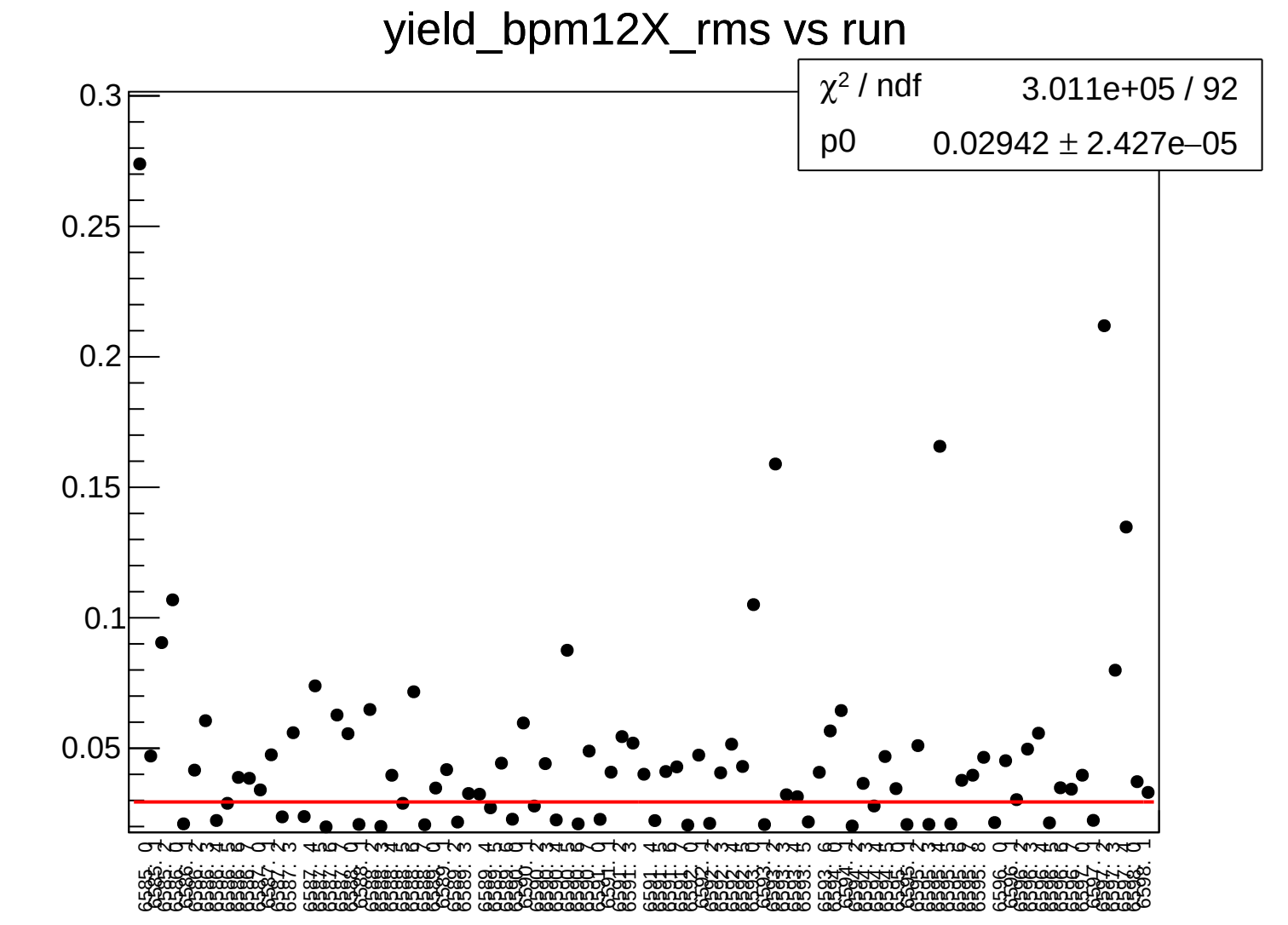

yield_bpm11X_rms vs run
χ² / ndf 2.81e+05 / 92
p0 0.01145 ± 9.378e–06
0.1
0.08
0.06
0.04
0.02

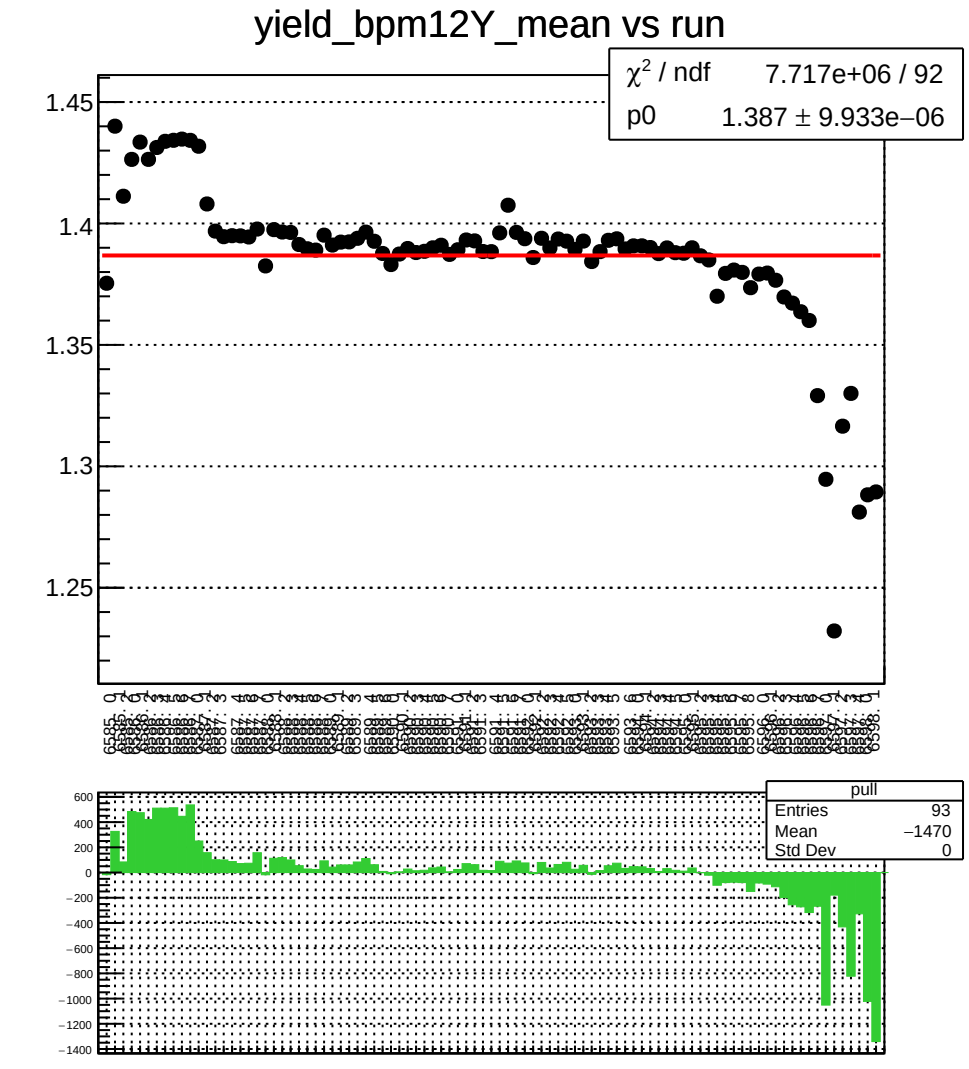

yield_bpm11Y_mean vs run
χ² / ndf 9.164e+06 / 92
p0 0.7847 ± 1.496e−05
0.85
0.8
0.75
0.7
0.65
0.6
0.55
pull
Entries 93
Mean −4193
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

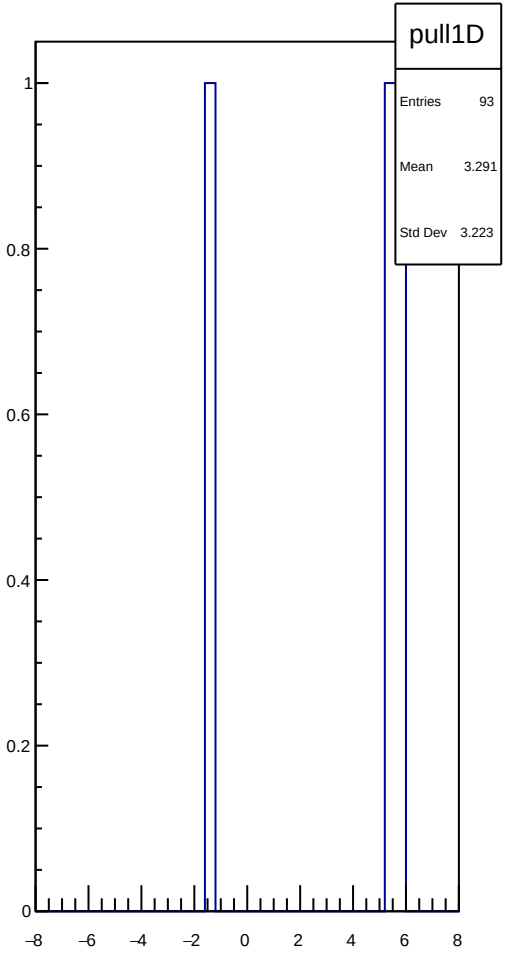

pull1D
Entries 93
Mean 4.409
Std Dev 1.712
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

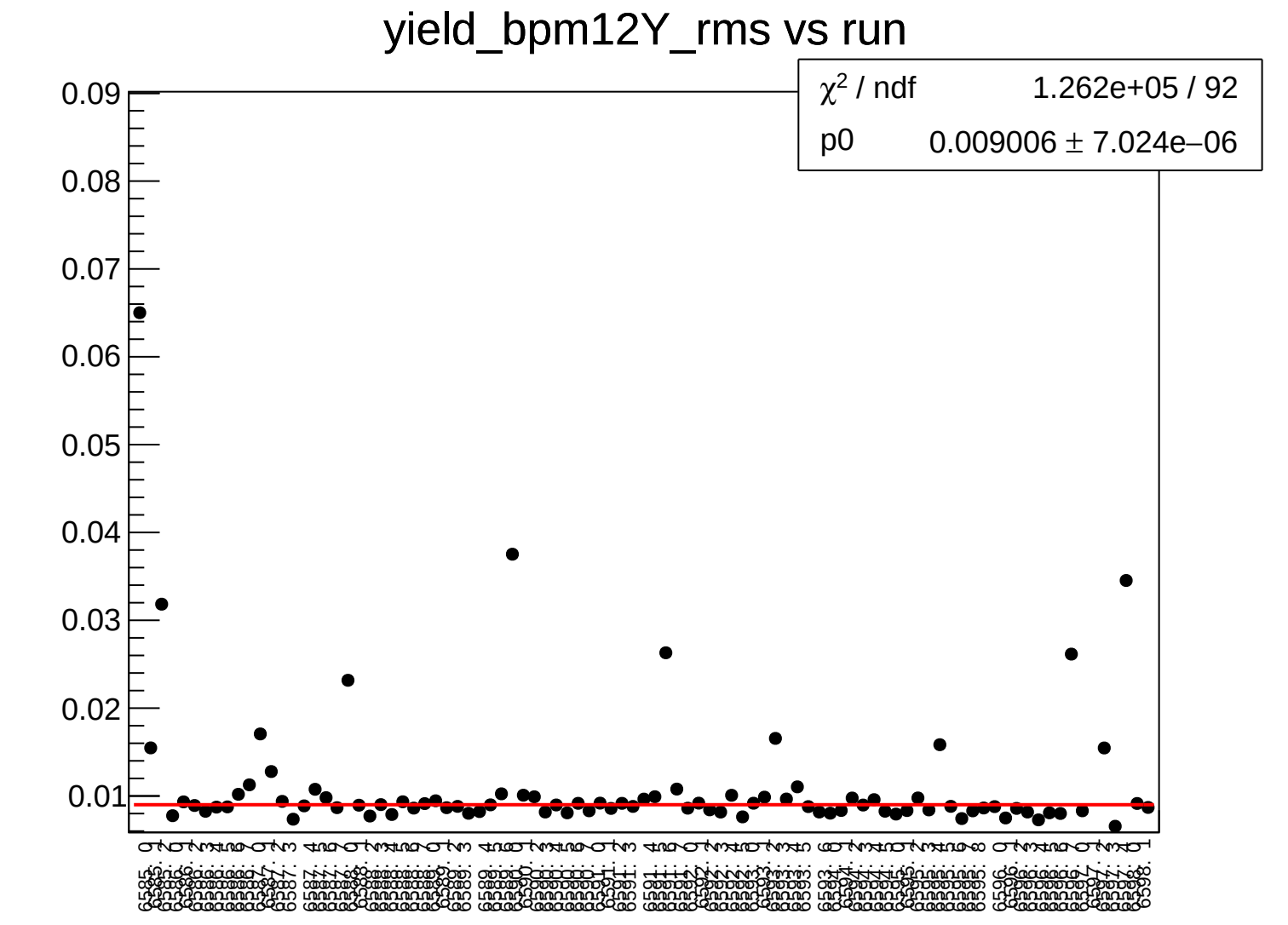

yield_bpm11Y_rms vs run
χ² / ndf 1.294e+05 / 92
p0 0.01355 ± 1.058e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

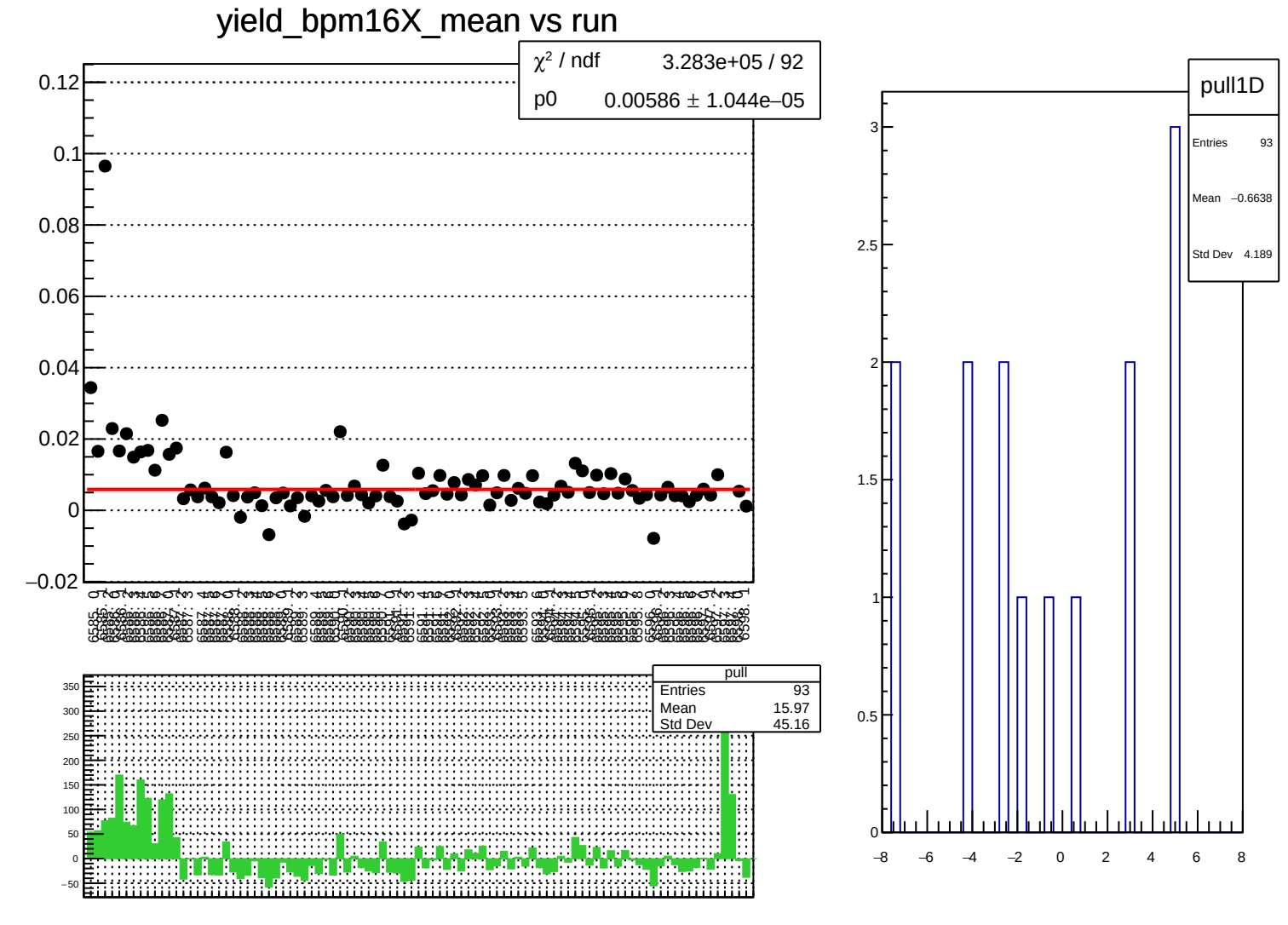

yield_bpm12X_mean vs run
χ² / ndf 8.167e+05 / 92
p0 0.5774 ± 3.433e−05
pull
Entries 93
Mean −17.69
Std Dev 0
pull1D
Entries 93
Mean −1.069
Std Dev 5.151

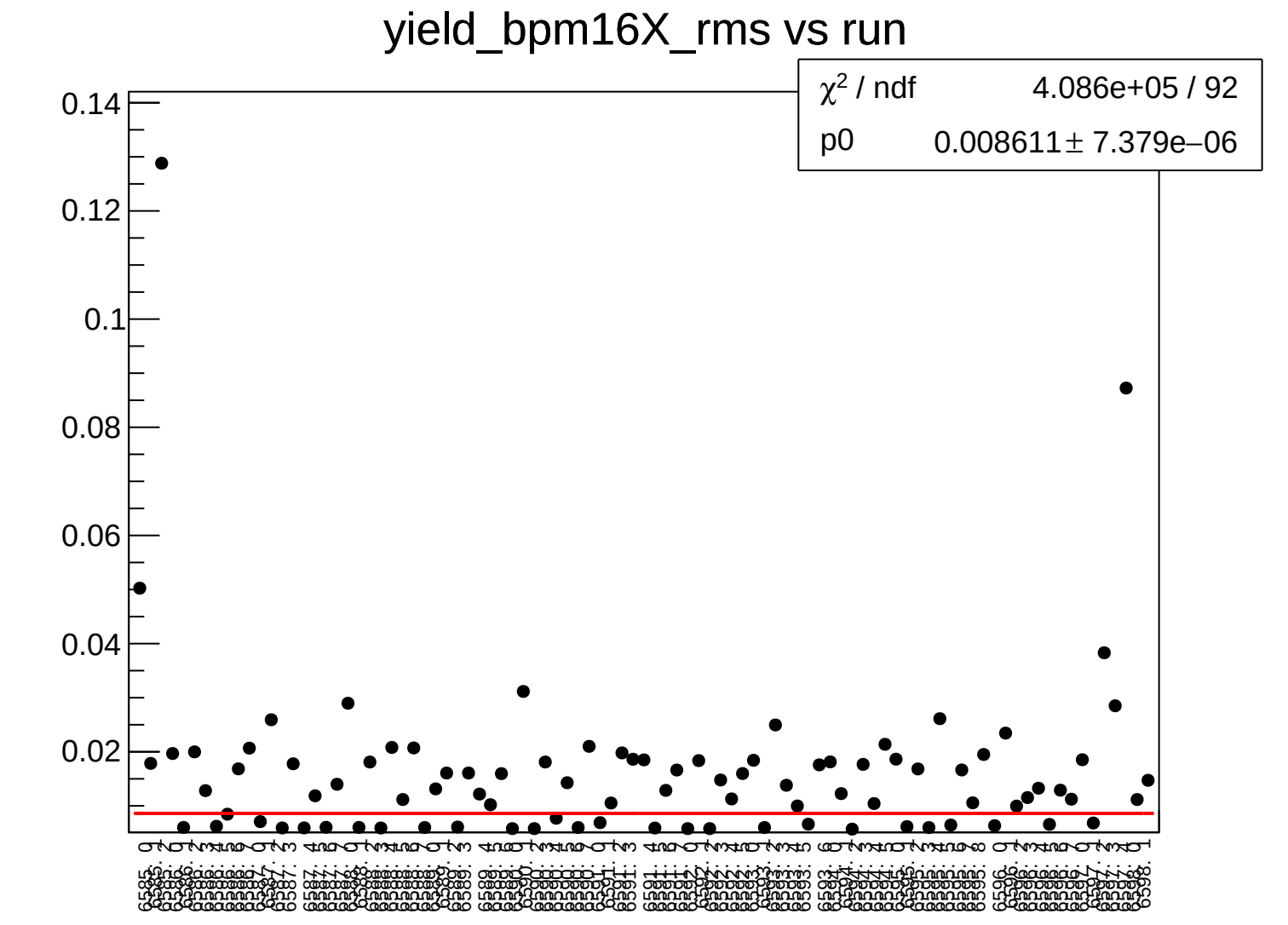

yield_bpm12X_rms vs run
χ² / ndf 3.011e+05 / 92
p0 0.02942 ± 2.427e−05
0.3
0.25
0.2
0.15
0.1
0.05

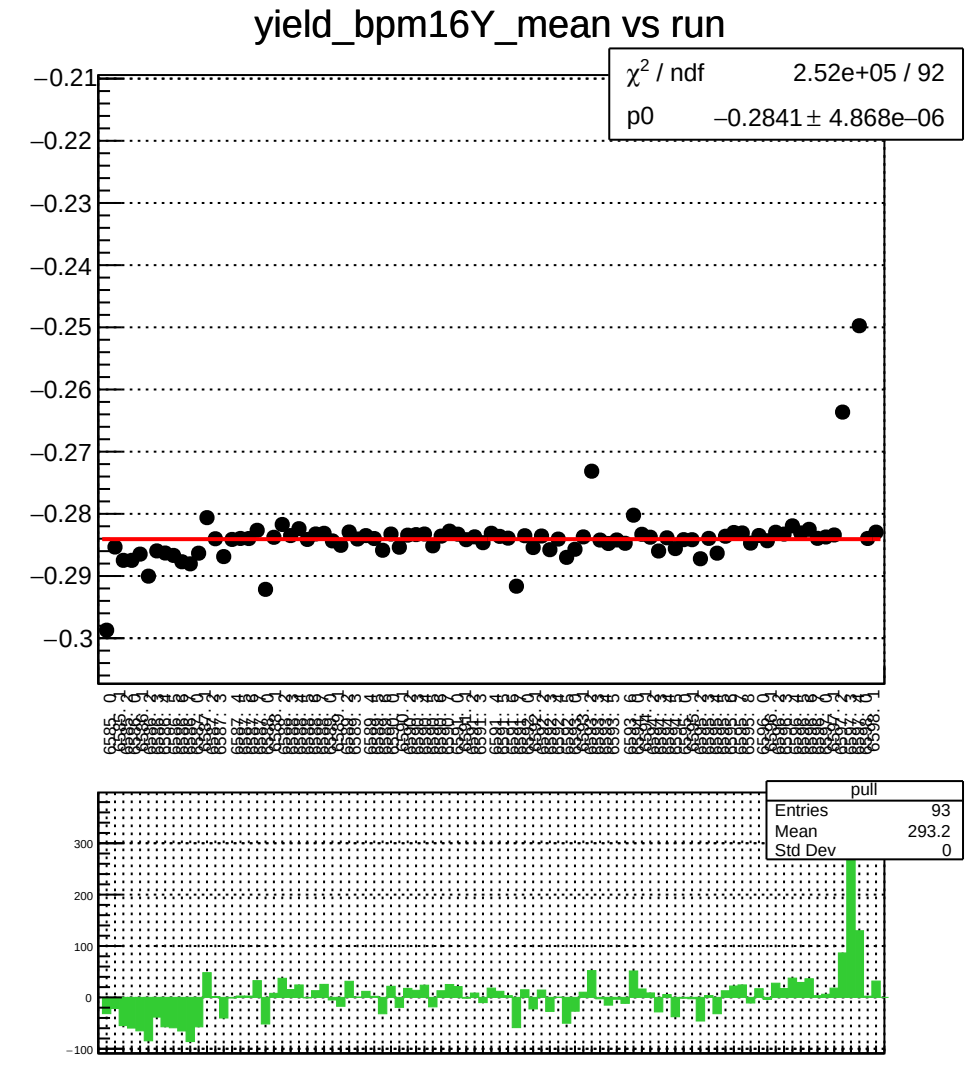

yield_bpm12Y_mean vs run
χ² / ndf 7.717e+06 / 92
p0 1.387 ± 9.933e−06
1.45
1.4
1.35
1.3
1.25
pull
Entries 93
Mean −1470
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

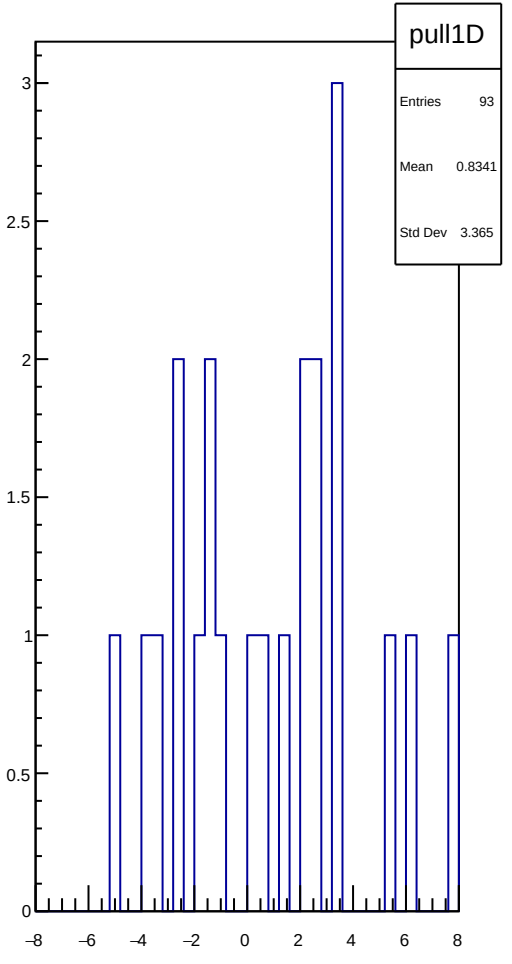

pull1D
Entries 93
Mean 3.291
Std Dev 3.223
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

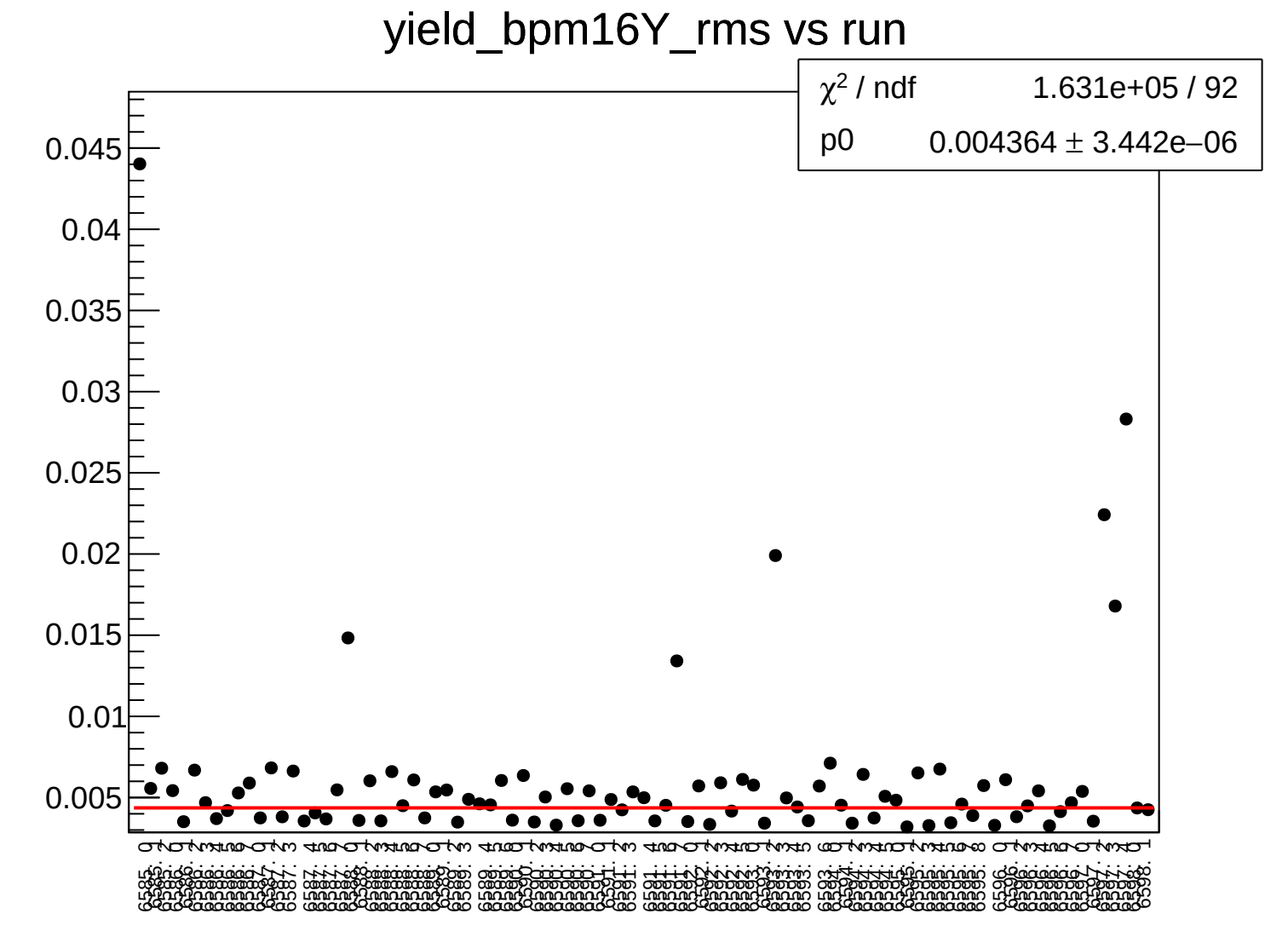

yield_bpm12Y_rms vs run
χ² / ndf 1.262e+05 / 92
p0 0.009006 ± 7.024e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

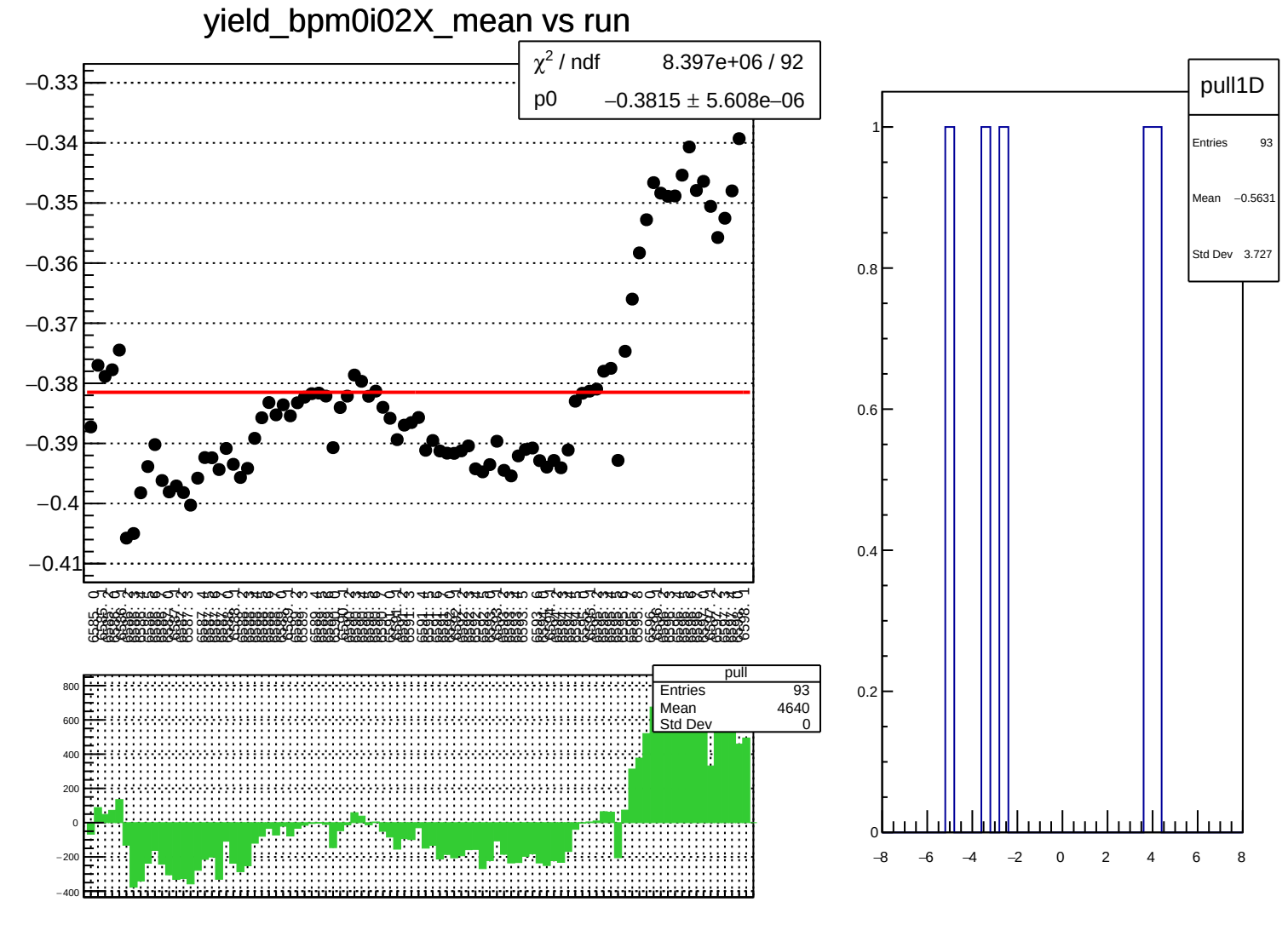

yield_bpm16X_mean vs run
χ² / ndf 3.283e+05 / 92
p0 0.00586 ± 1.044e−05
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
pull
Entries 93
Mean 15.97
Std Dev 45.16
350
300
250
200
150
100
50
0
−50
pull1D
Entries 93
Mean −0.6638
Std Dev 4.189
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

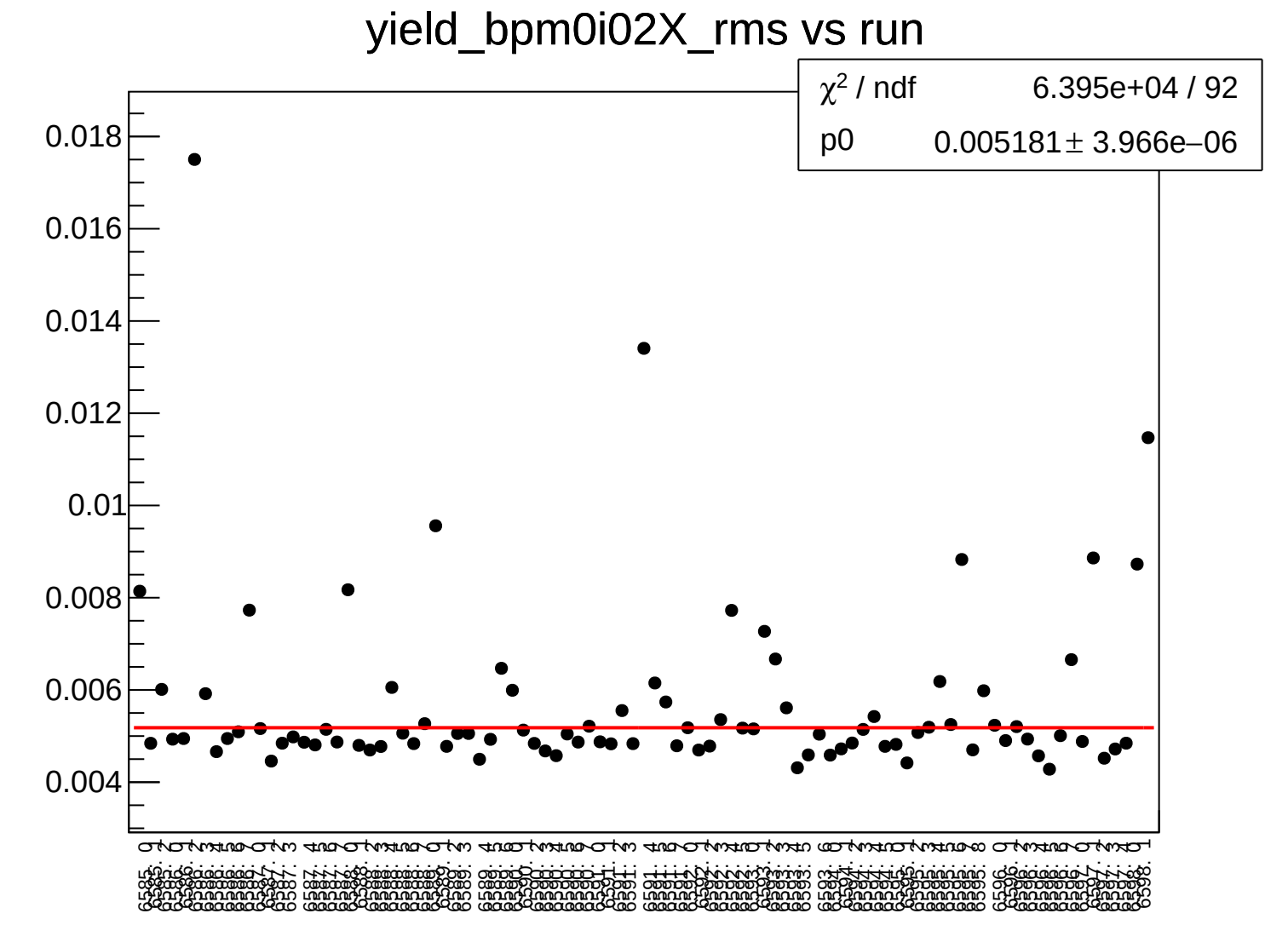

yield_bpm16X_rms vs run
χ² / ndf 4.086e+05 / 92
p0 0.008611 ± 7.379e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

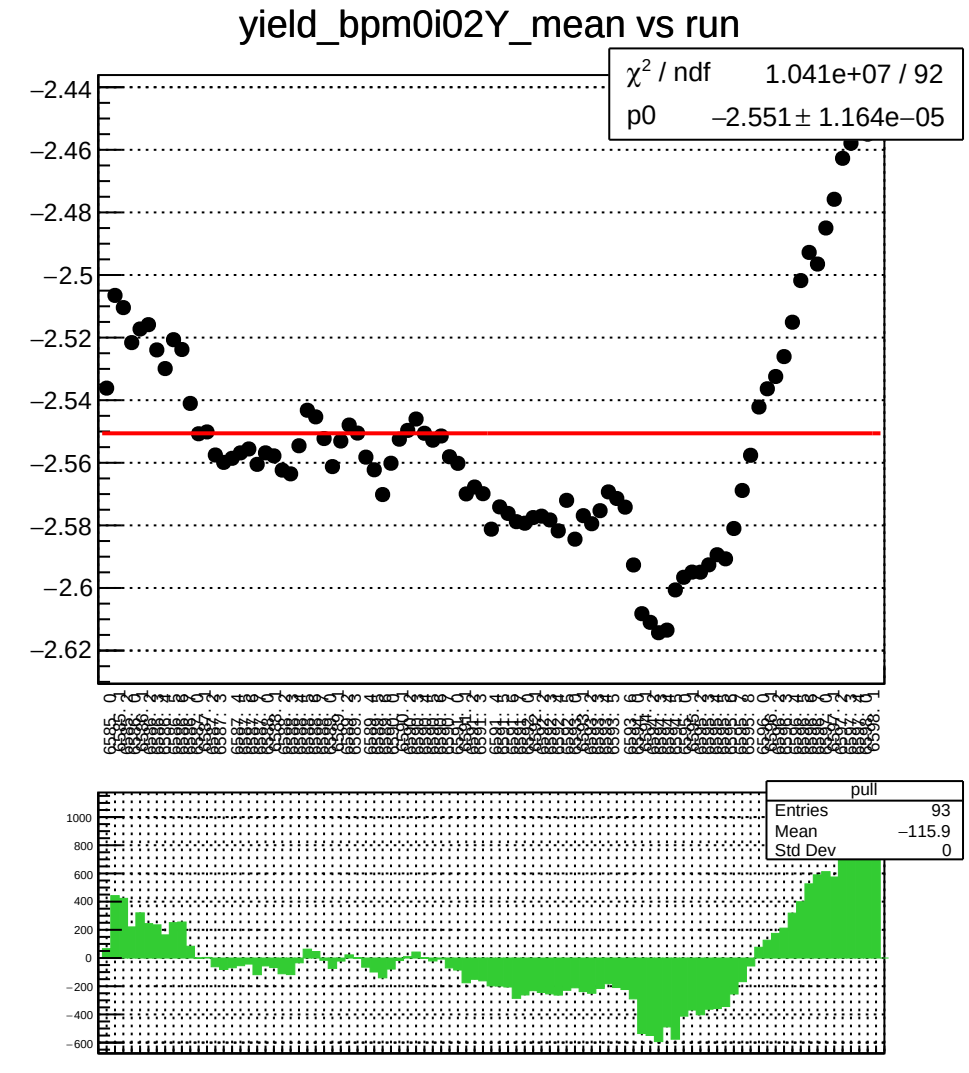

yield_bpm16Y_mean vs run
χ² / ndf 2.52e+05 / 92
p0 −0.2841 ± 4.868e−06
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
pull
Entries 93
Mean 293.2
Std Dev 0
300
200
100
0
−100

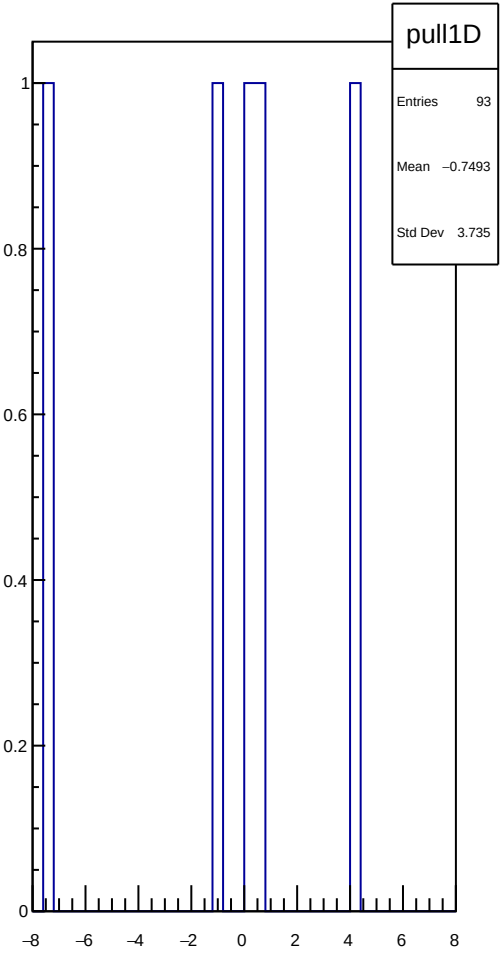

pull1D
Entries 93
Mean 0.8341
Std Dev 3.365
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

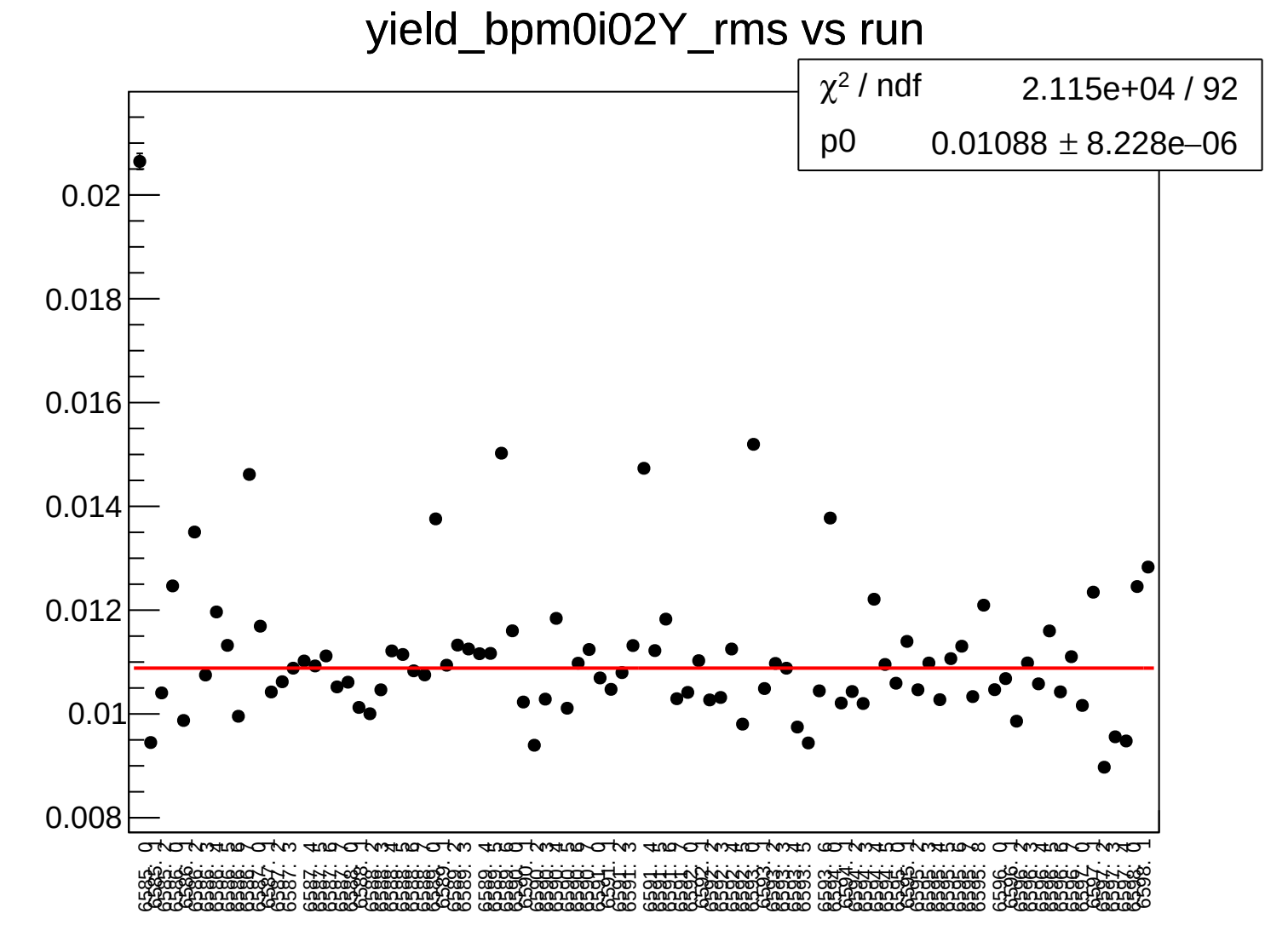

yield_bpm16Y_rms vs run
χ² / ndf 1.631e+05 / 92
p0 0.004364 ± 3.442e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

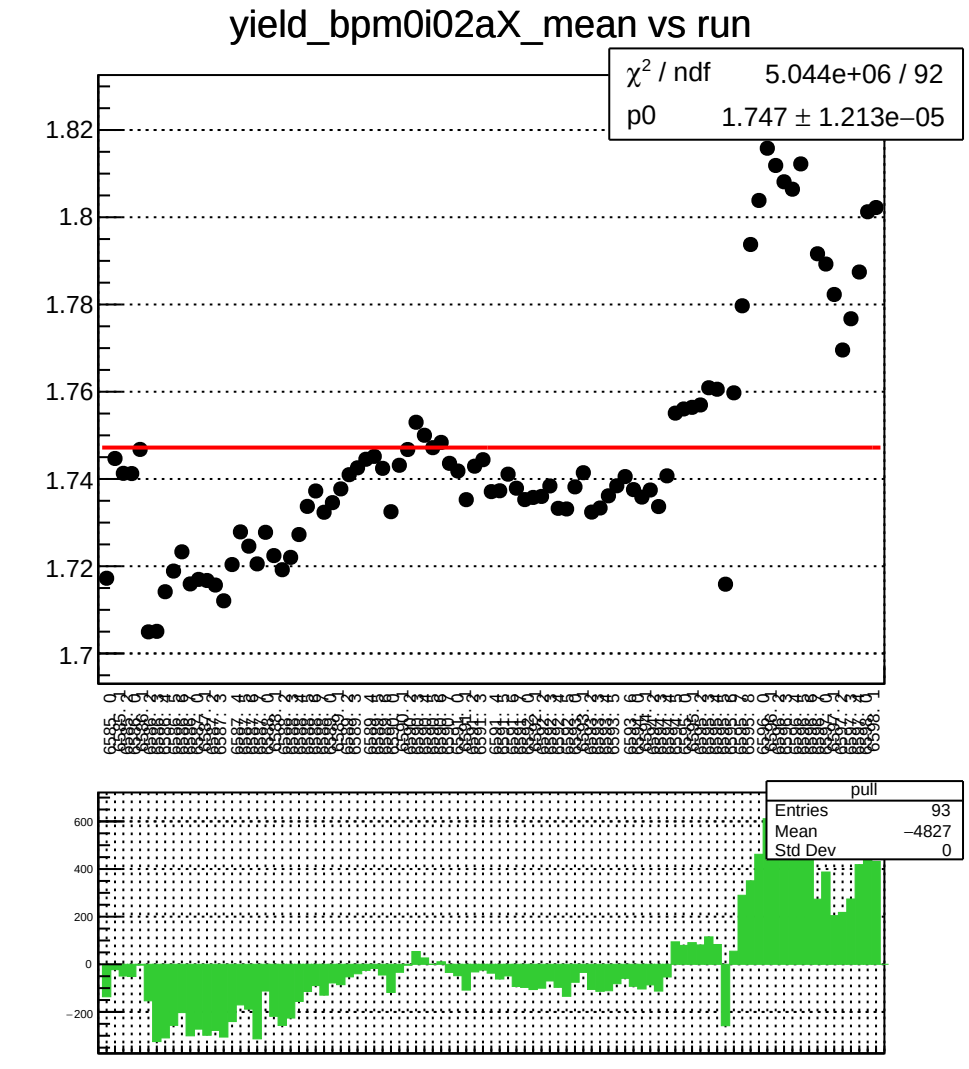

yield_bpm0i02X_mean vs run
χ² / ndf 8.397e+06 / 92
p0 −0.3815 ± 5.608e−06
−0.33
−0.34
−0.35
−0.36
−0.37
−0.38
−0.39
−0.4
−0.41
pull
Entries 93
Mean 4640
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 93
Mean −0.5631
Std Dev 3.727
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

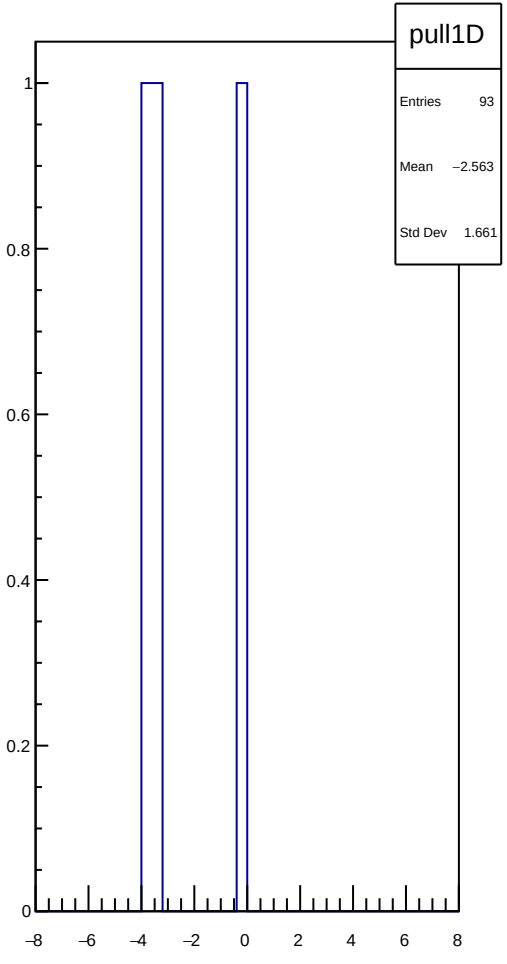

yield_bpm0i02X_rms vs run
χ^2 / ndf 6.395e+04 / 92
p0 0.005181 ± 3.966e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

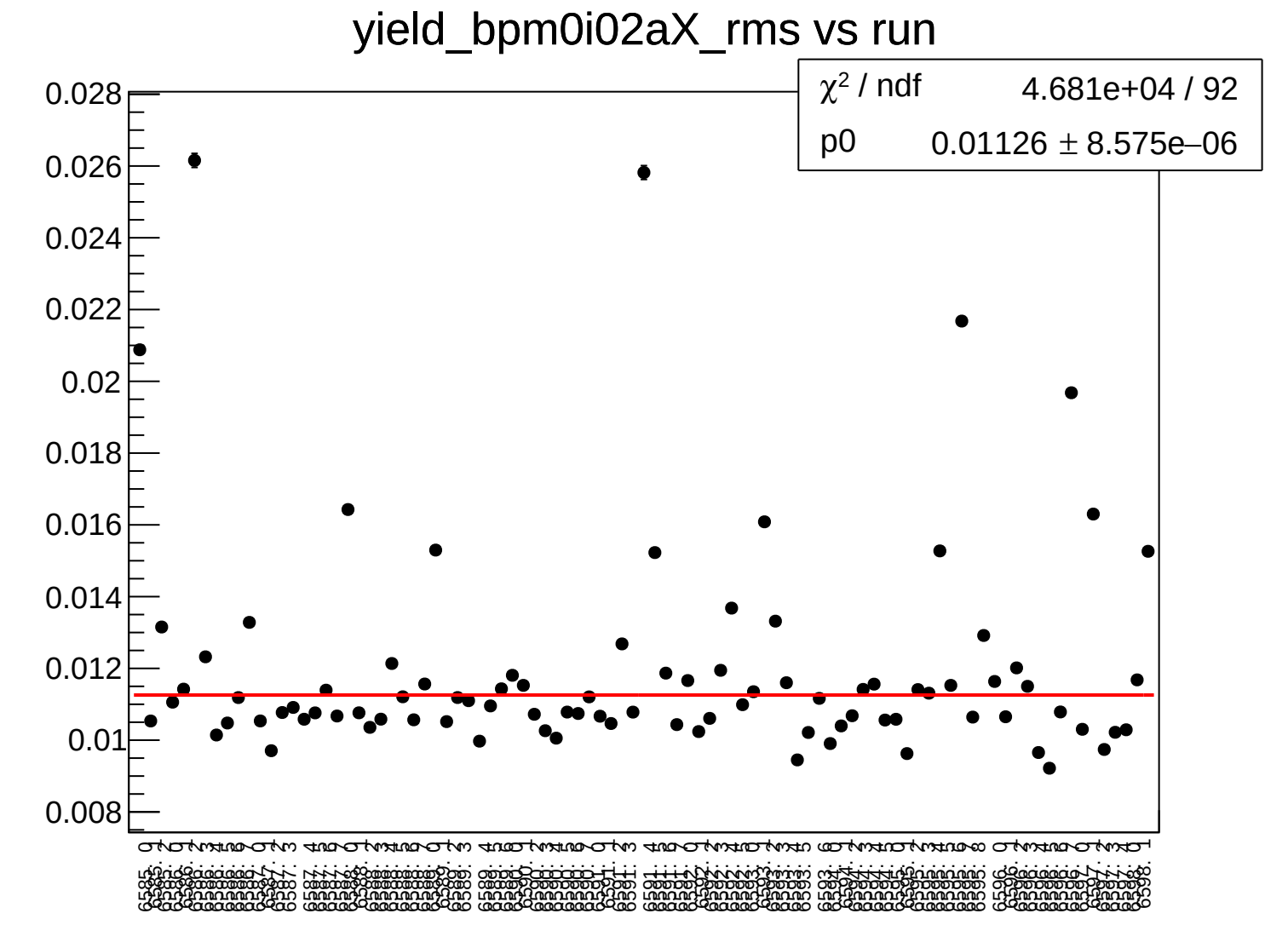

yield_bpm0i02Y_mean vs run
χ² / ndf 1.041e+07 / 92
p0 −2.551 ± 1.164e−05
−2.44
−2.46
−2.48
−2.5
−2.52
−2.54
−2.56
−2.58
−2.6
−2.62
pull
Entries 93
Mean −115.9
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

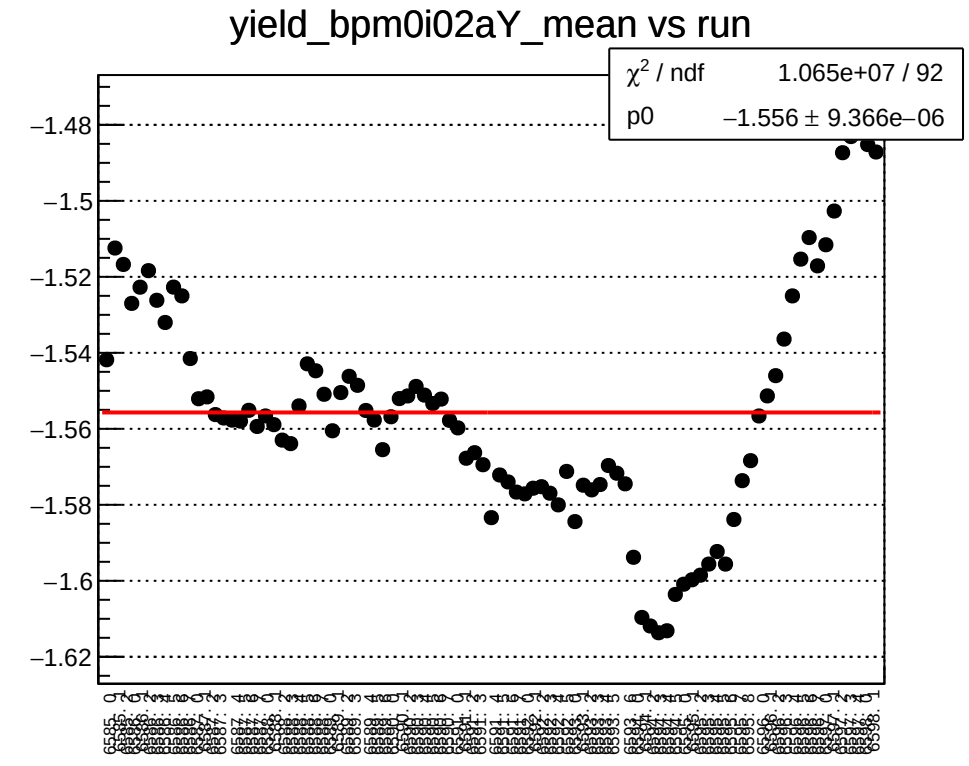

pull1D
Entries 93
Mean −0.7493
Std Dev 3.735
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

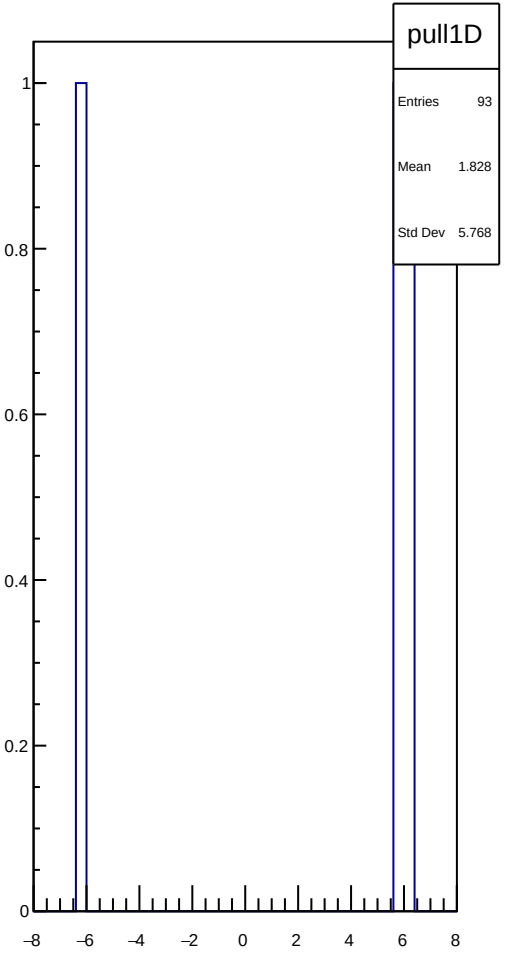

yield_bpm0i02Y_rms vs run
χ² / ndf 2.115e+04 / 92
p0 0.01088 ± 8.228e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

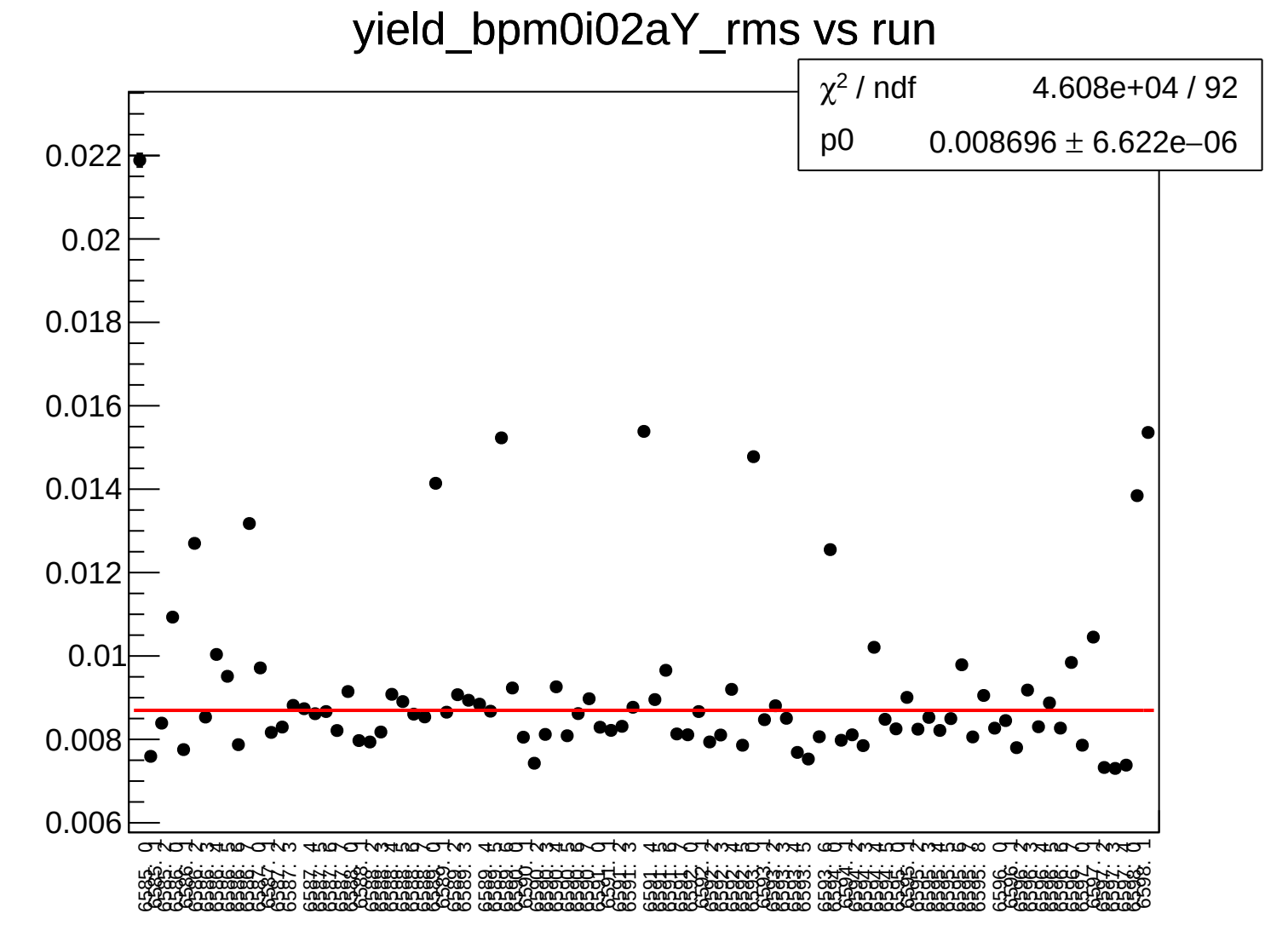

yield_bpm0i02aX_mean vs run
χ² / ndf 5.044e+06 / 92
p0 1.747 ± 1.213e−05
1.82
1.8
1.78
1.76
1.74
1.72
1.7
pull
Entries 93
Mean −4827
Std Dev 0
600
400
200
0
−200

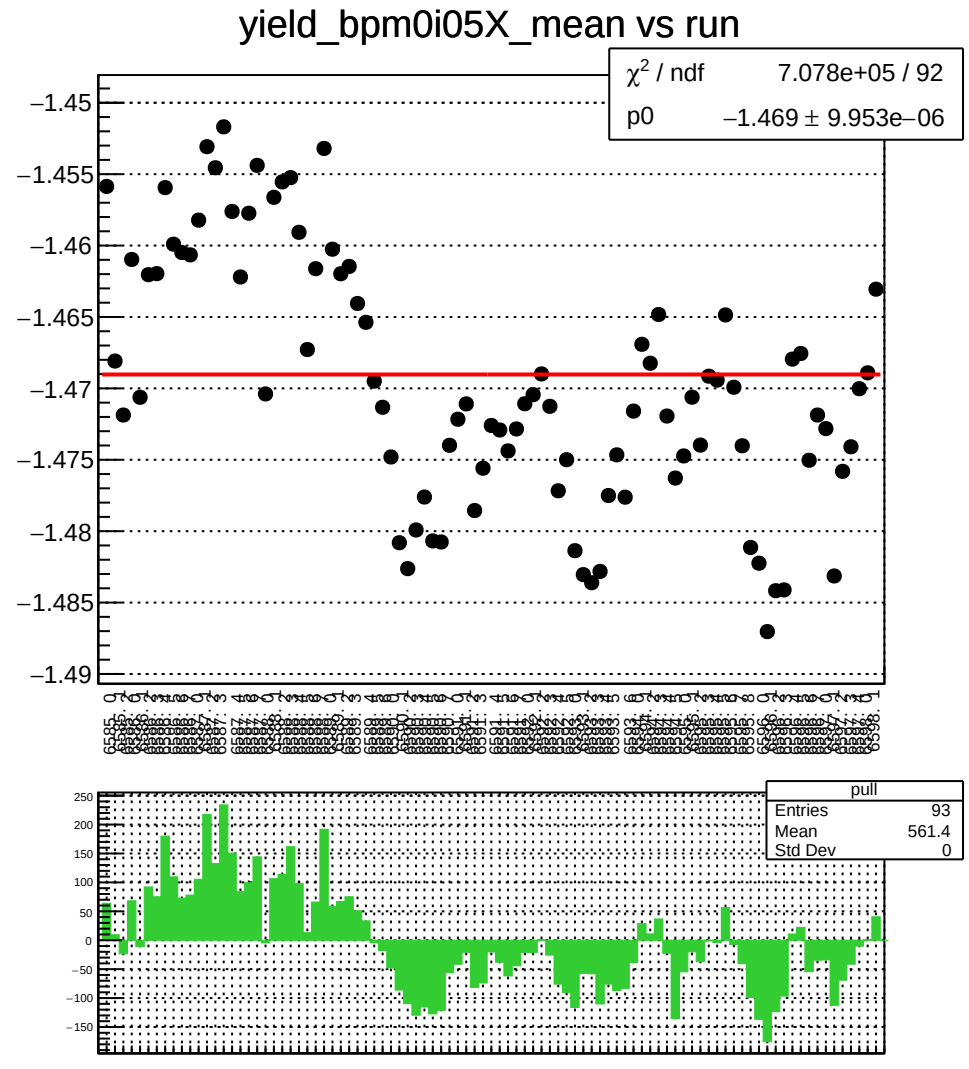

pull1D
Entries 93
Mean −2.563
Std Dev 1.661
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

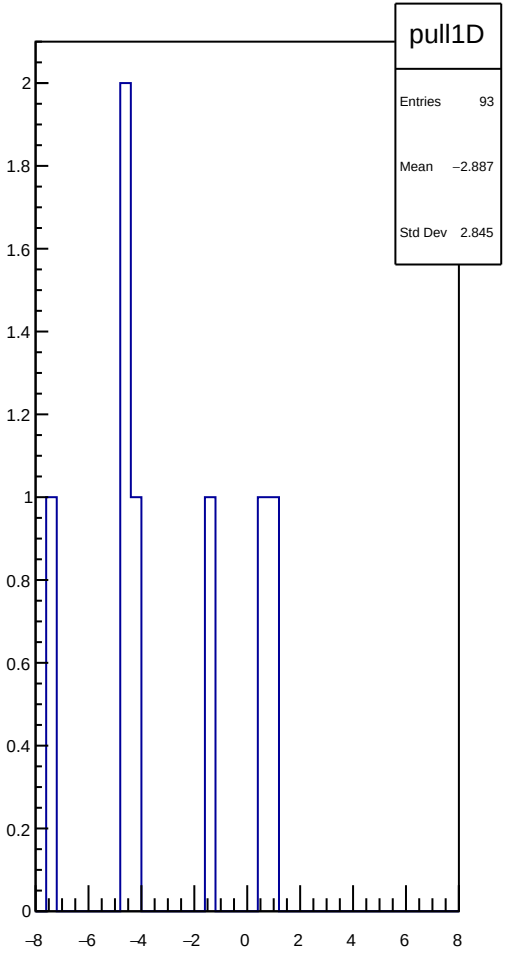

yield_bpm0i02aX_rms vs run
χ² / ndf 4.681e+04 / 92
p0 0.01126 ± 8.575e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

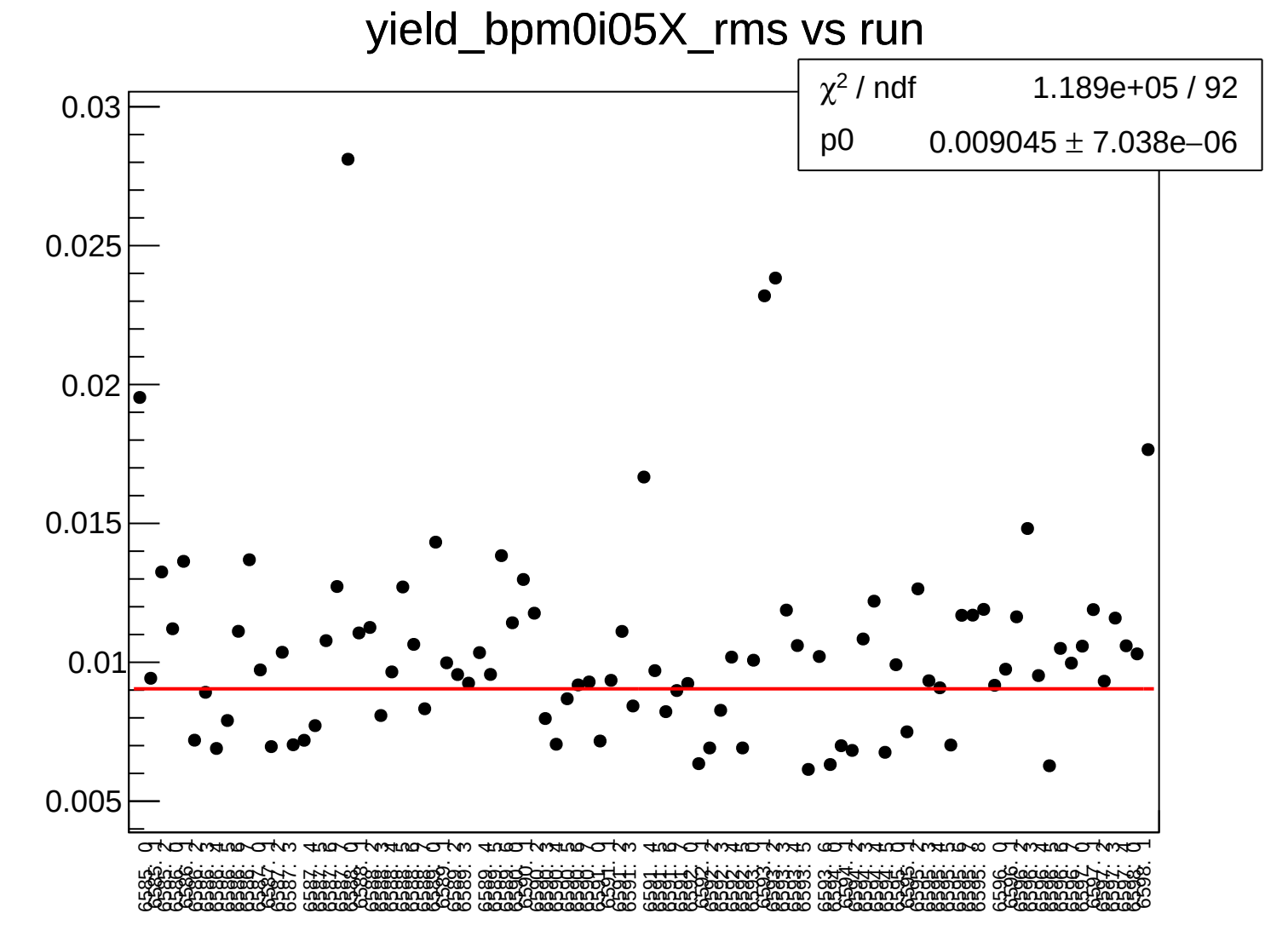

yield_bpm0i02aY_mean vs run
χ² / ndf 1.065e+07 / 92
p0 −1.556 ± 9.366e−06
−1.48
−1.5
−1.52
−1.54
−1.56
−1.58
−1.6
−1.62
pull
Entries 93
Mean 618.4
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

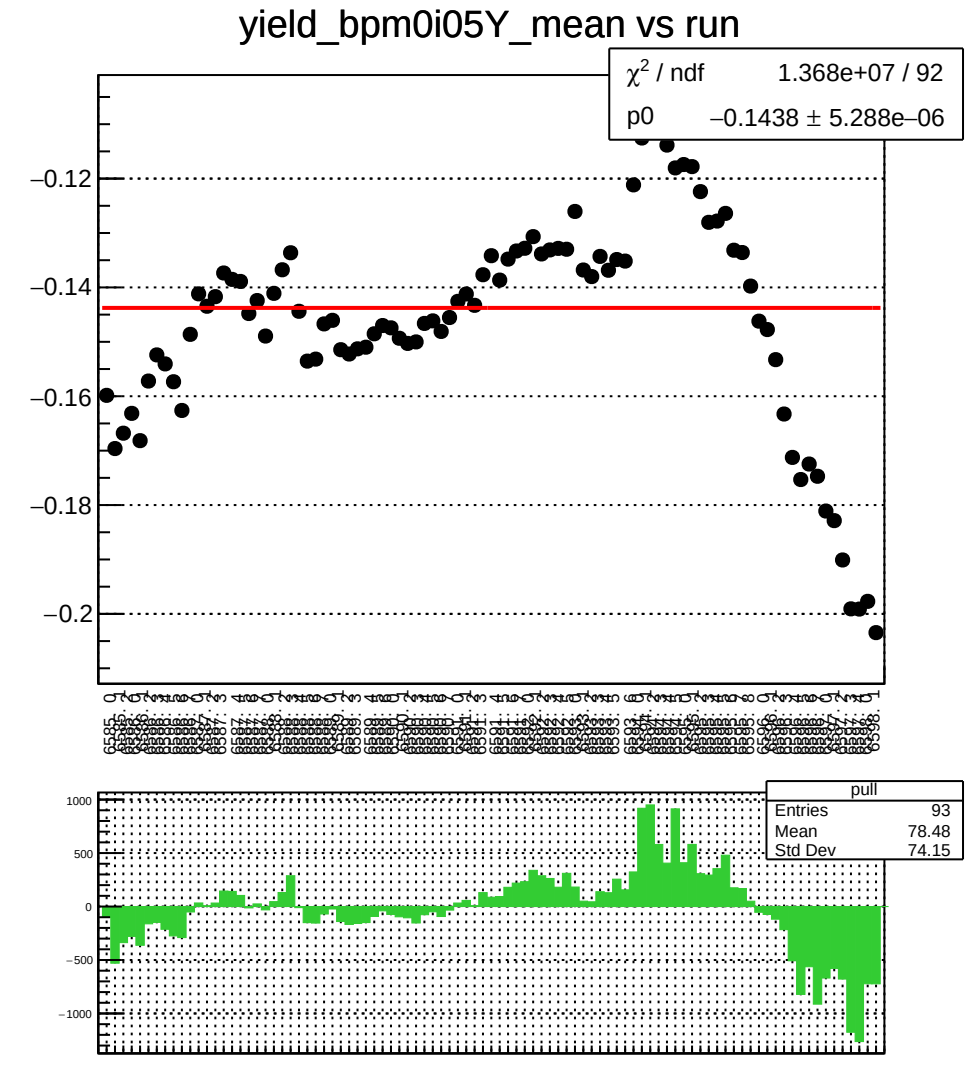

pull1D
Entries 93
Mean 1.828
Std Dev 5.768
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

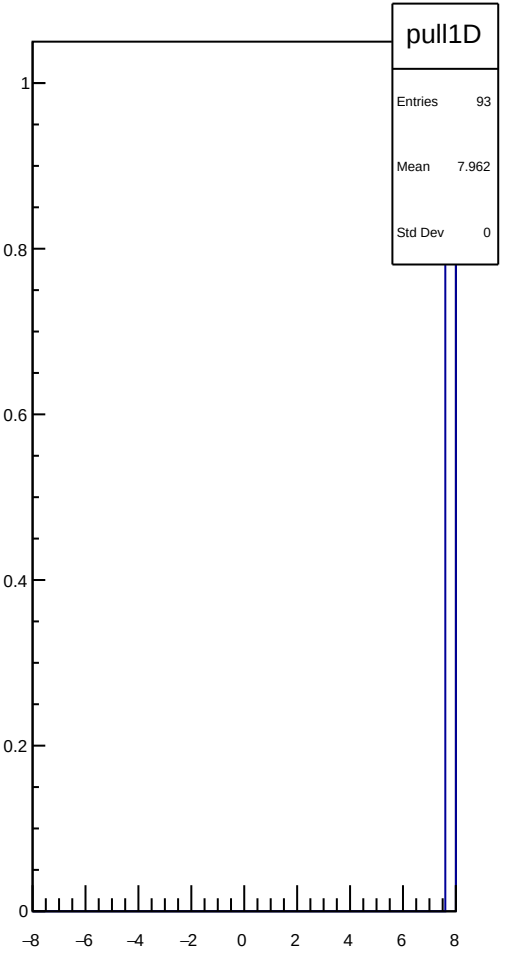

yield_bpm0i02aY_rms vs run
χ² / ndf 4.608e+04 / 92
p0 0.008696 ± 6.622e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

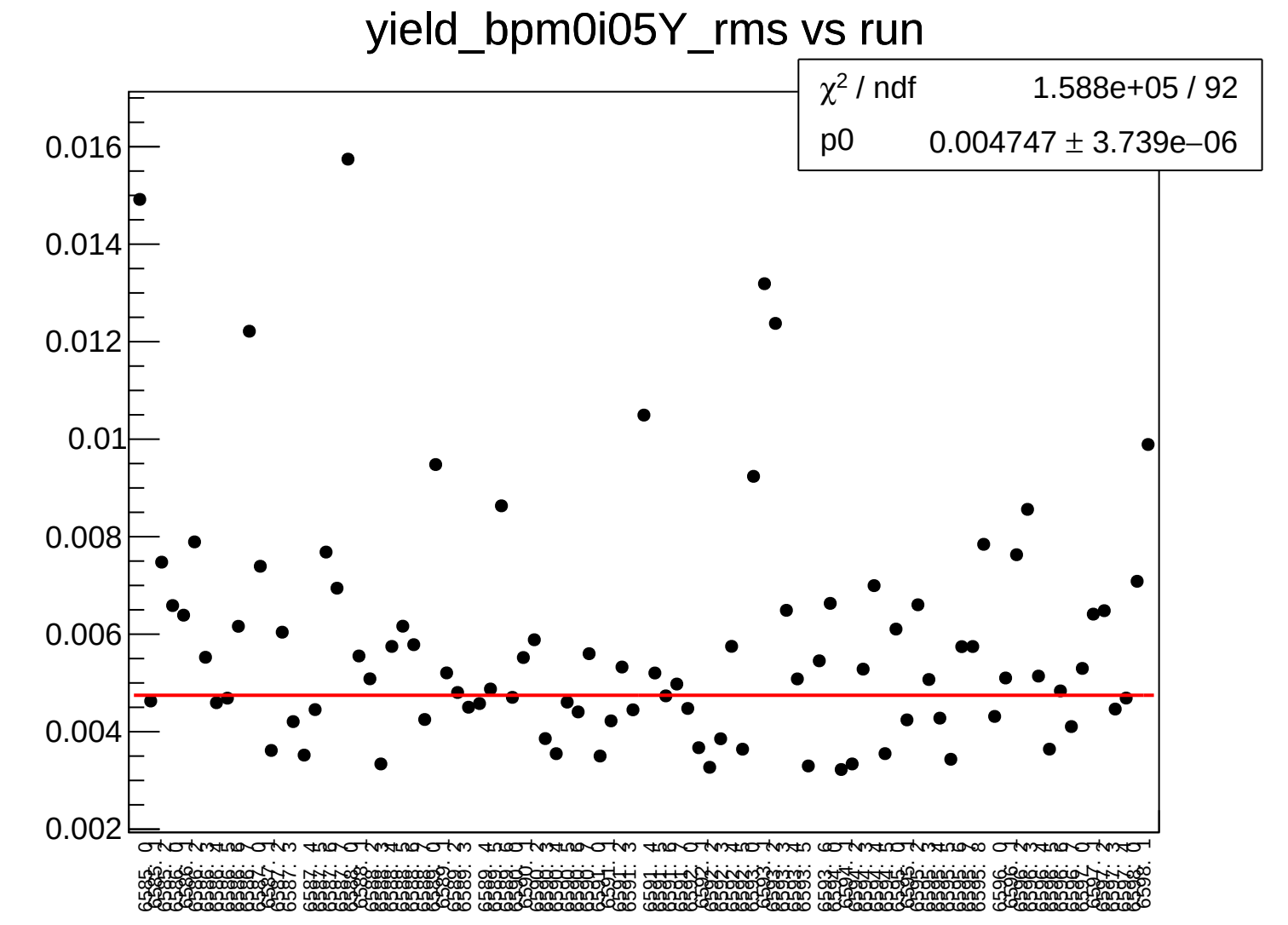

yield_bpm0i05X_mean vs run
χ² / ndf 7.078e+05 / 92
p0 −1.469 ± 9.953e−06
−1.45
−1.455
−1.46
−1.465
−1.47
−1.475
−1.48
−1.485
−1.49
pull
Entries 93
Mean 561.4
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

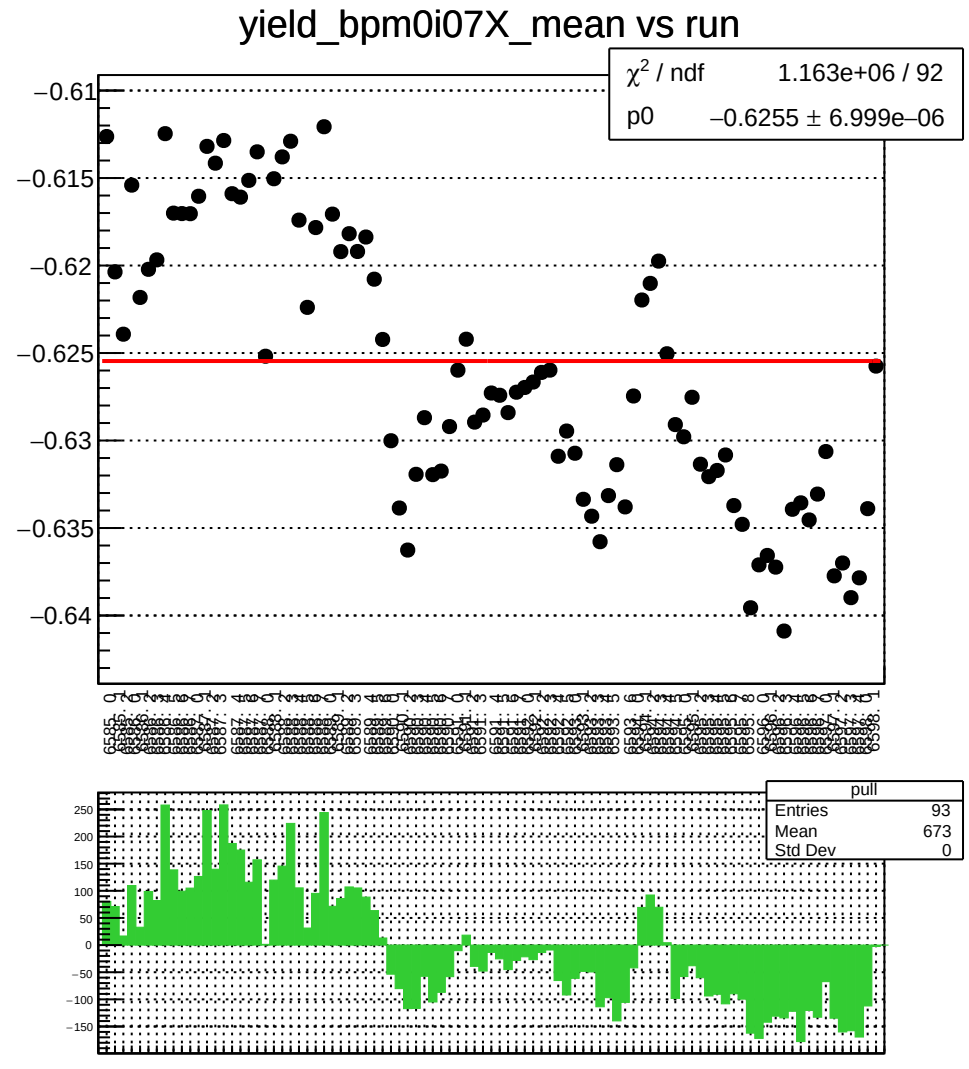

pull1D
Entries 93
Mean −2.887
Std Dev 2.845
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

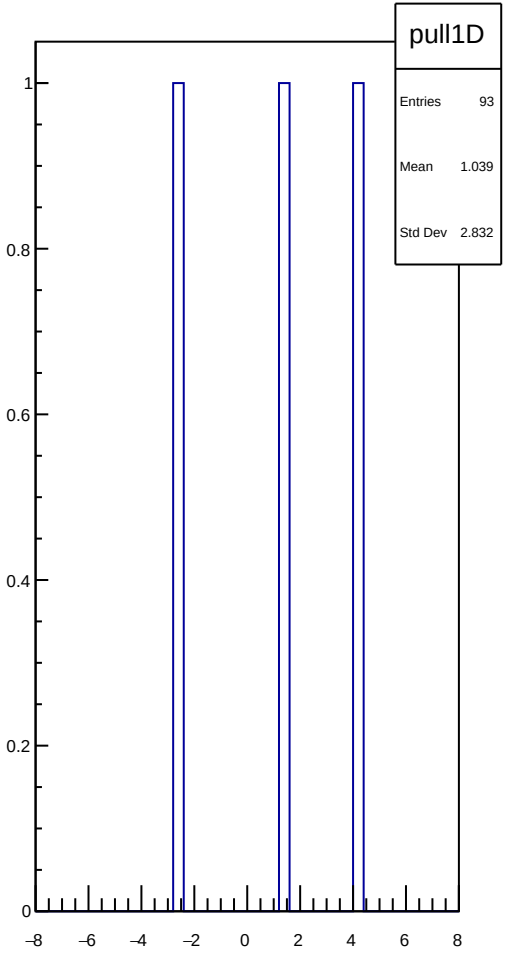

yield_bpm0i05X_rms vs run
χ² / ndf 1.189e+05 / 92
p0 0.009045 ± 7.038e−06
0.03
0.025
0.02
0.015
0.01
0.005

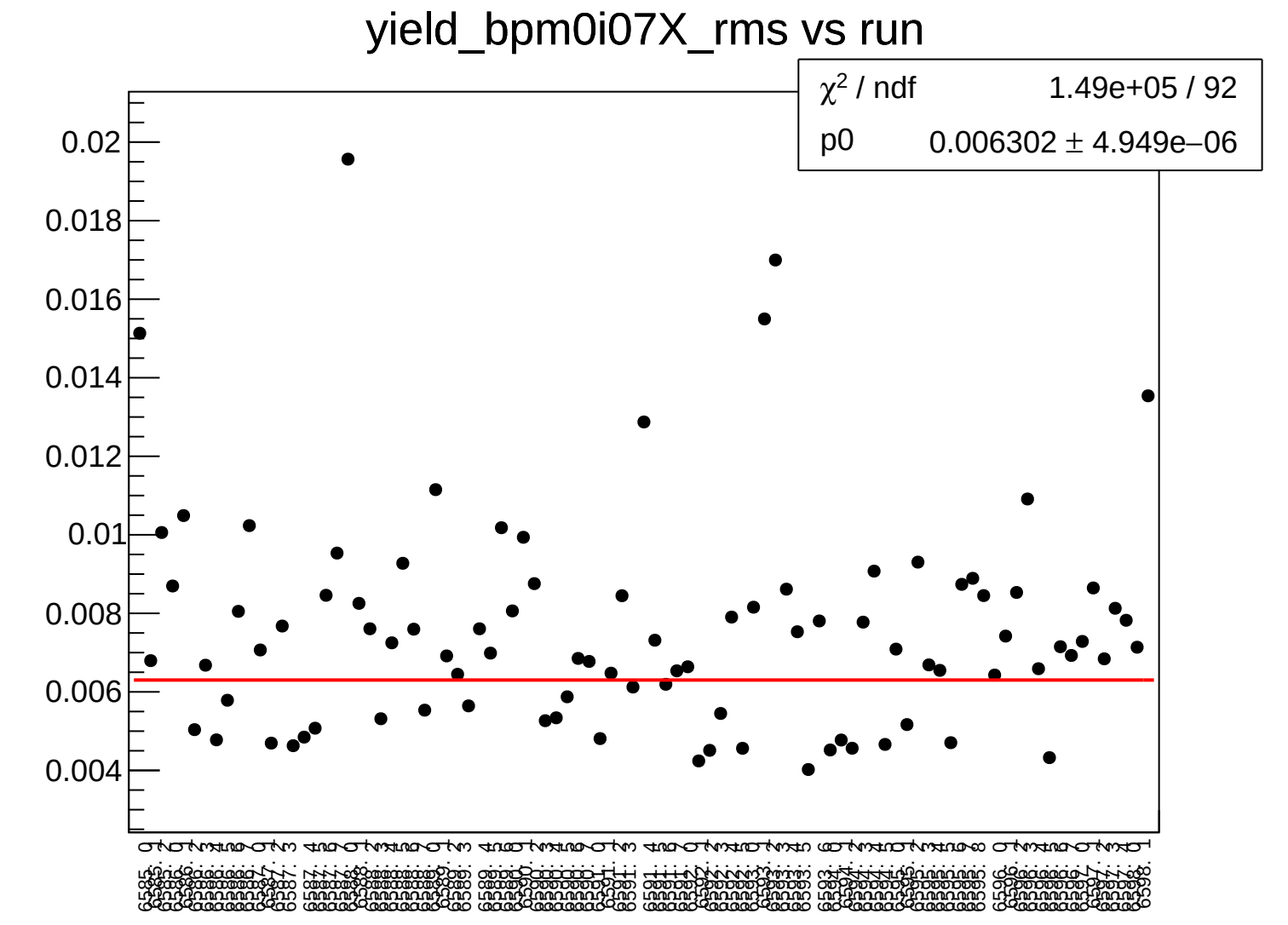

yield_bpm0i05Y_mean vs run
χ² / ndf 1.368e+07 / 92
p0 −0.1438 ± 5.288e−06
−0.12
−0.14
−0.16
−0.18
−0.2
pull
Entries 93
Mean 78.48
Std Dev 74.15
1000
500
0
−500
−1000

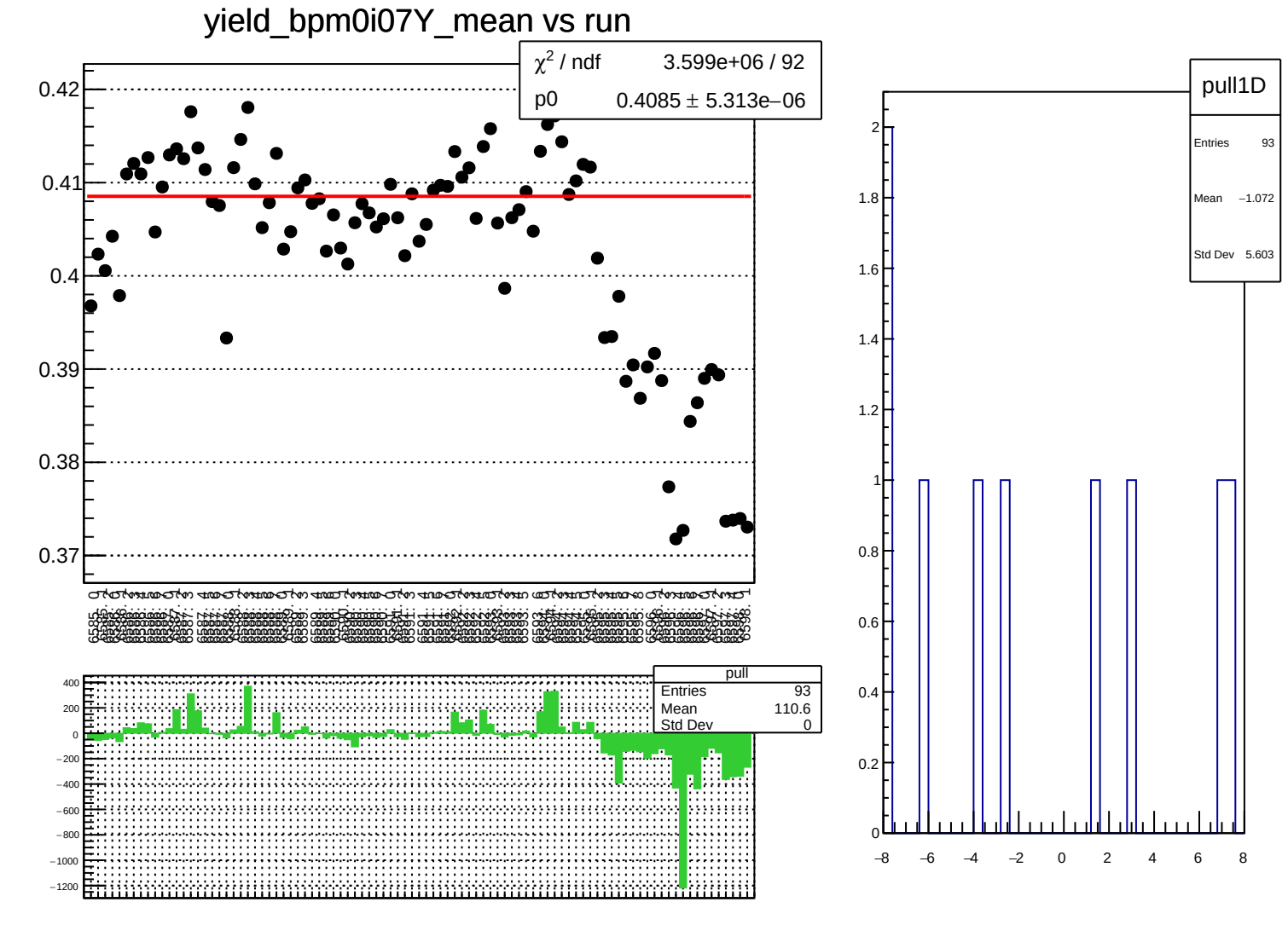

pull1D
Entries 93
Mean 7.962
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

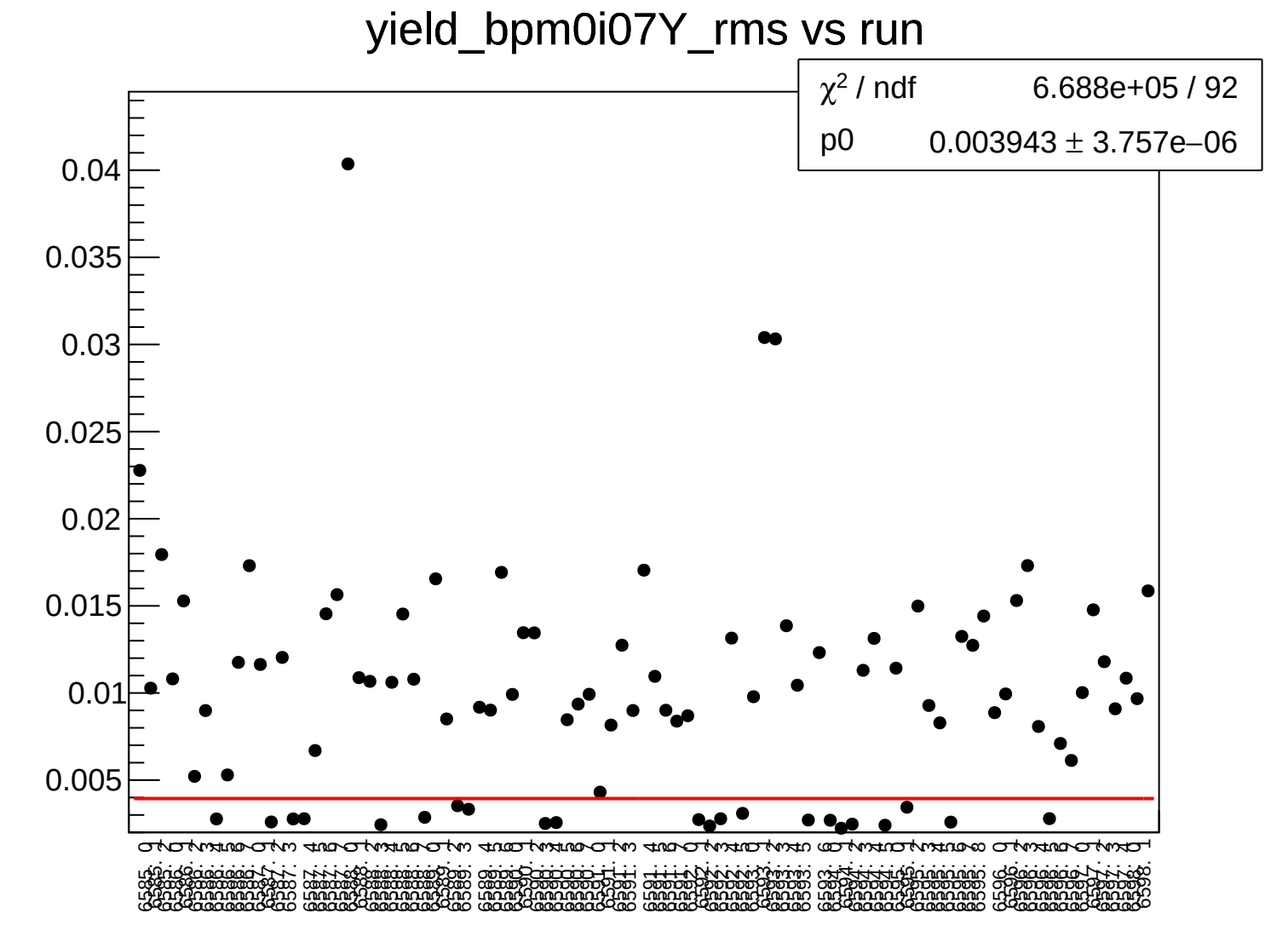

yield_bpm0i05Y_rms vs run
χ^2 / ndf 1.588e+05 / 92
p0 0.004747 ± 3.739e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

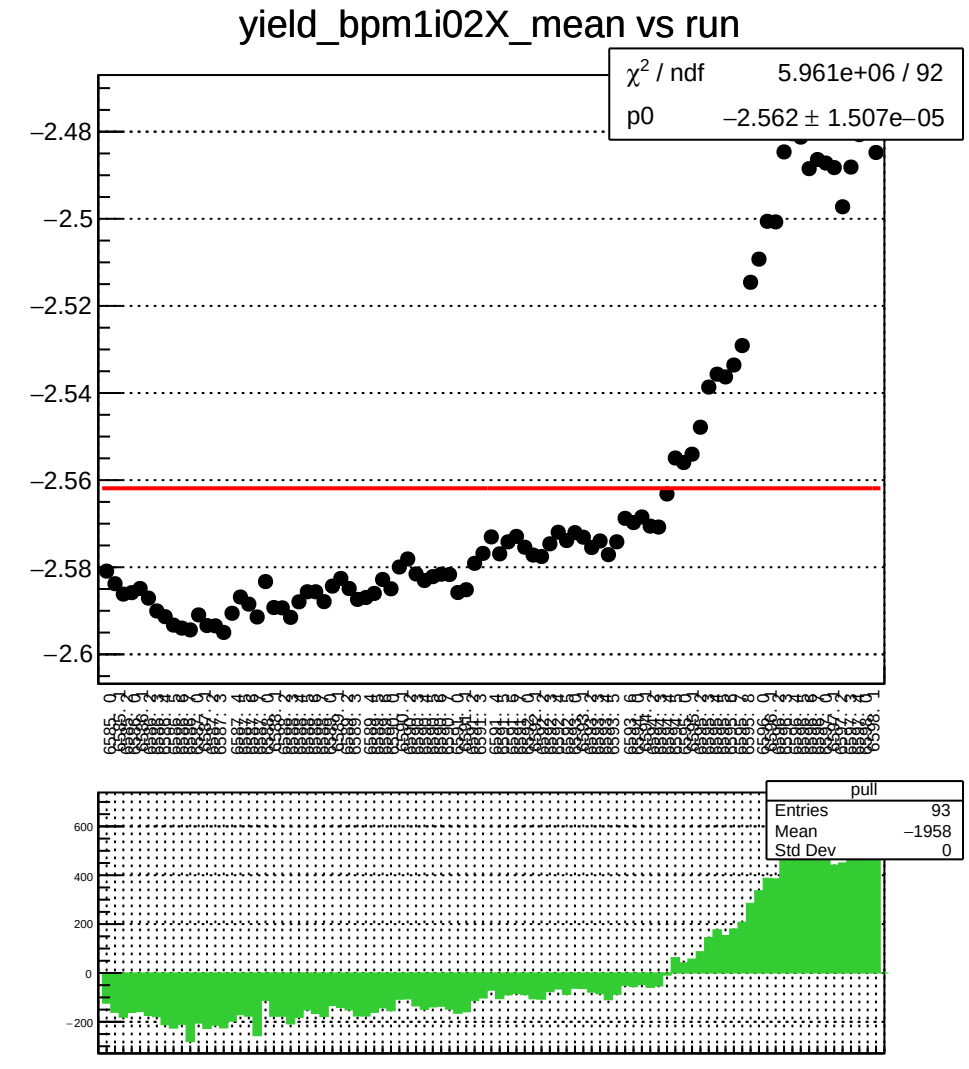

yield_bpm0i07X_mean vs run
χ² / ndf 1.163e+06 / 92
p0 −0.6255 ± 6.999e−06
−0.61
−0.615
−0.62
−0.625
−0.63
−0.635
−0.64
pull
Entries 93
Mean 673
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

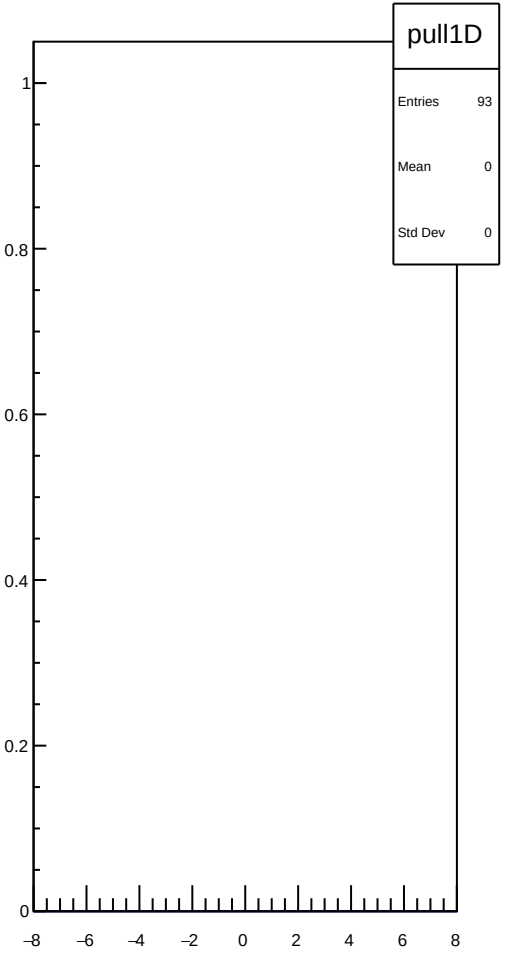

pull1D
Entries 93
Mean 1.039
Std Dev 2.832
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

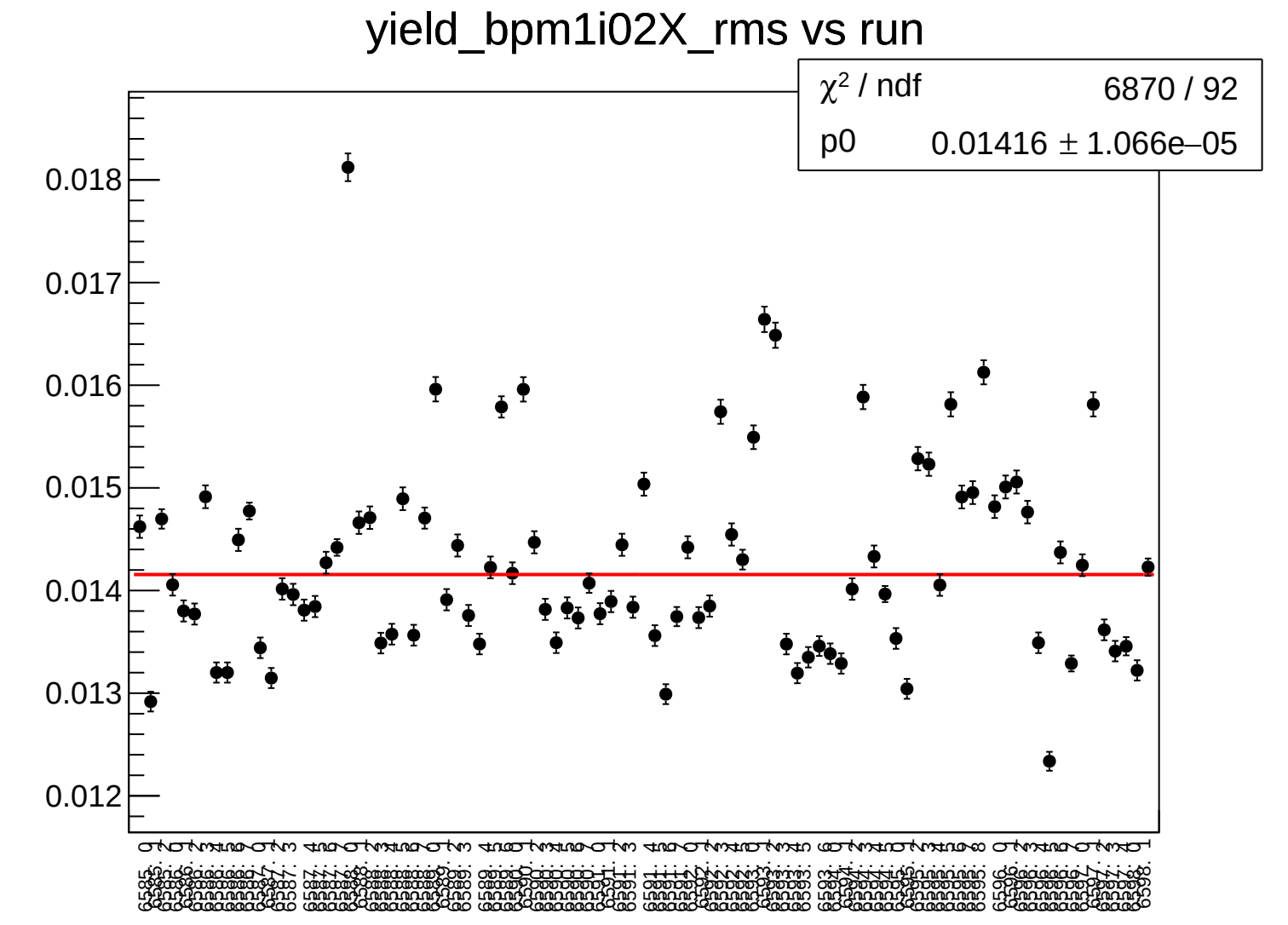

yield_bpm0i07X_rms vs run
χ² / ndf 1.49e+05 / 92
p0 0.006302 ± 4.949e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

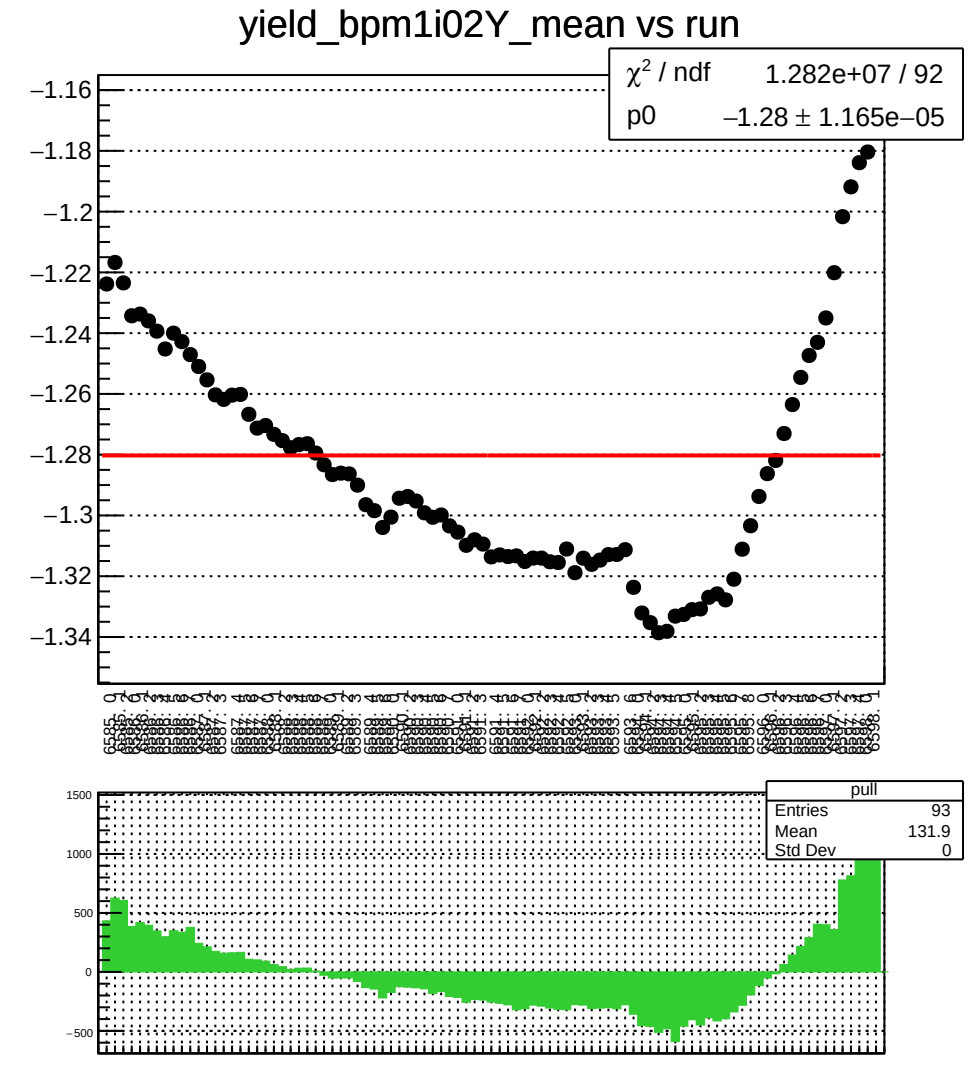

yield_bpm0i07Y_mean vs run
χ² / ndf 3.599e+06 / 92
p0 0.4085 ± 5.313e−06
0.42
0.41
0.4
0.39
0.38
0.37
pull
Entries 93
Mean 110.6
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 93
Mean −1.072
Std Dev 5.603
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

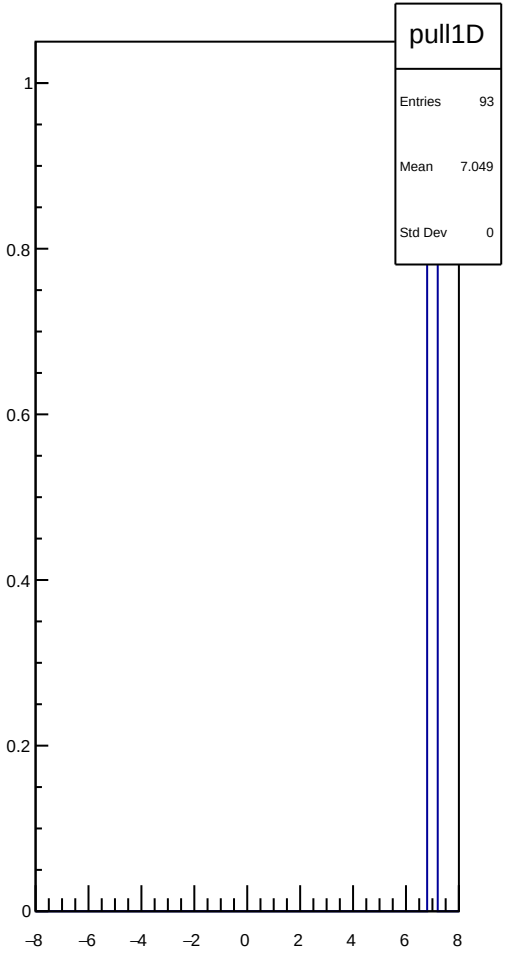

yield_bpm0i07Y_rms vs run
χ² / ndf 6.688e+05 / 92
p0 0.003943 ± 3.757e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

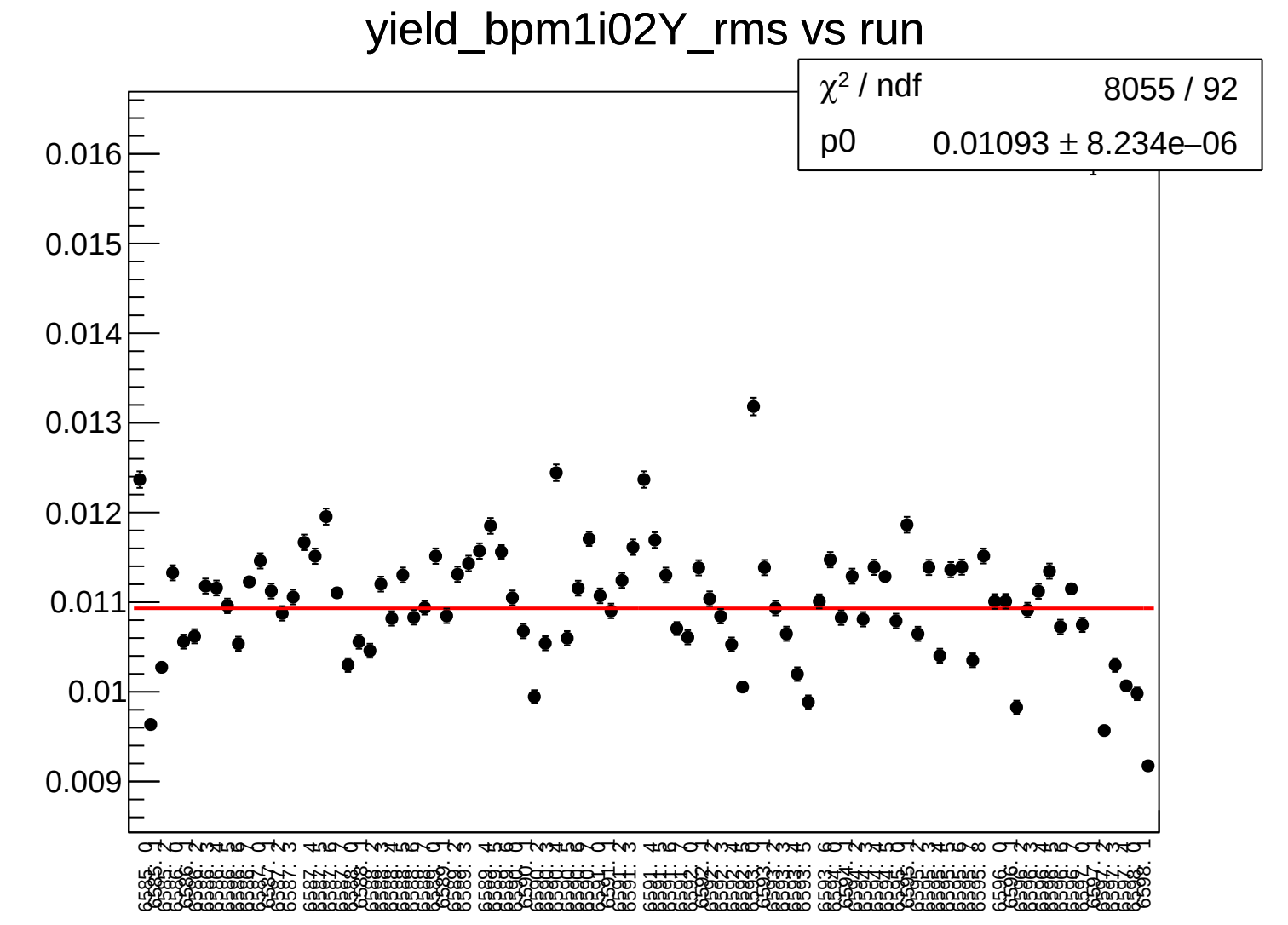

yield_bpm1i02X_mean vs run
χ² / ndf 5.961e+06 / 92
p0 −2.562 ± 1.507e−05
−2.48
−2.5
−2.52
−2.54
−2.56
−2.58
−2.6
pull
Entries 93
Mean −1958
Std Dev 0
600
400
200
0
−200

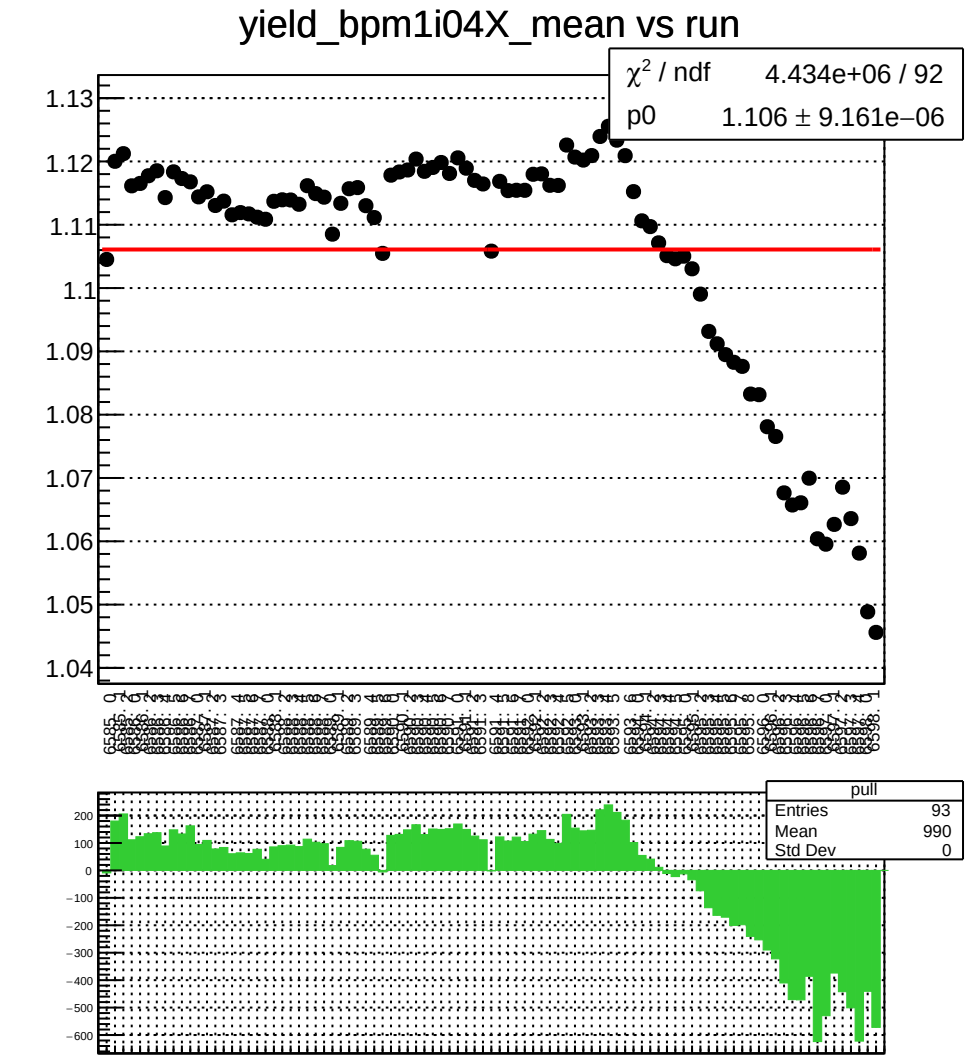

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

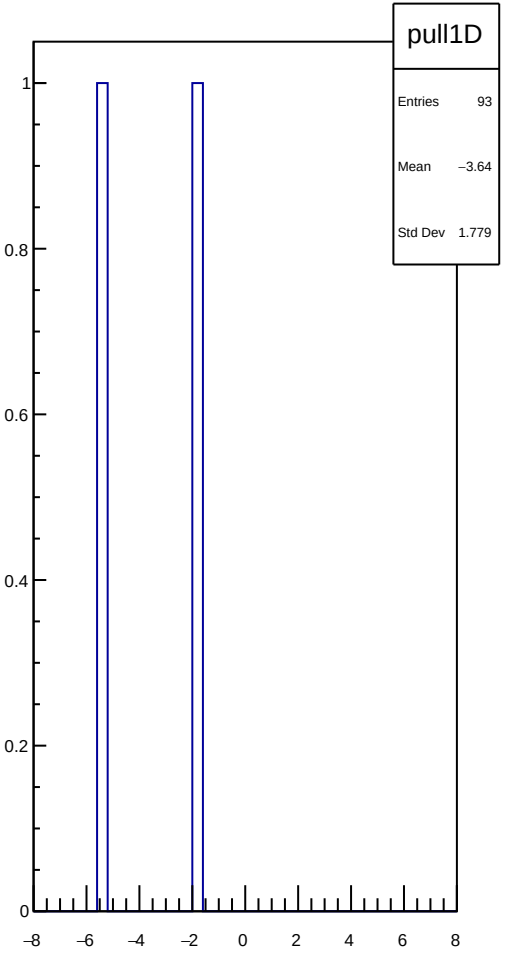

yield_bpm1i02X_rms vs run
χ² / ndf 6870 / 92
p0 0.01416 ± 1.066e–05
0.018
0.017
0.016
0.015
0.014
0.013
0.012

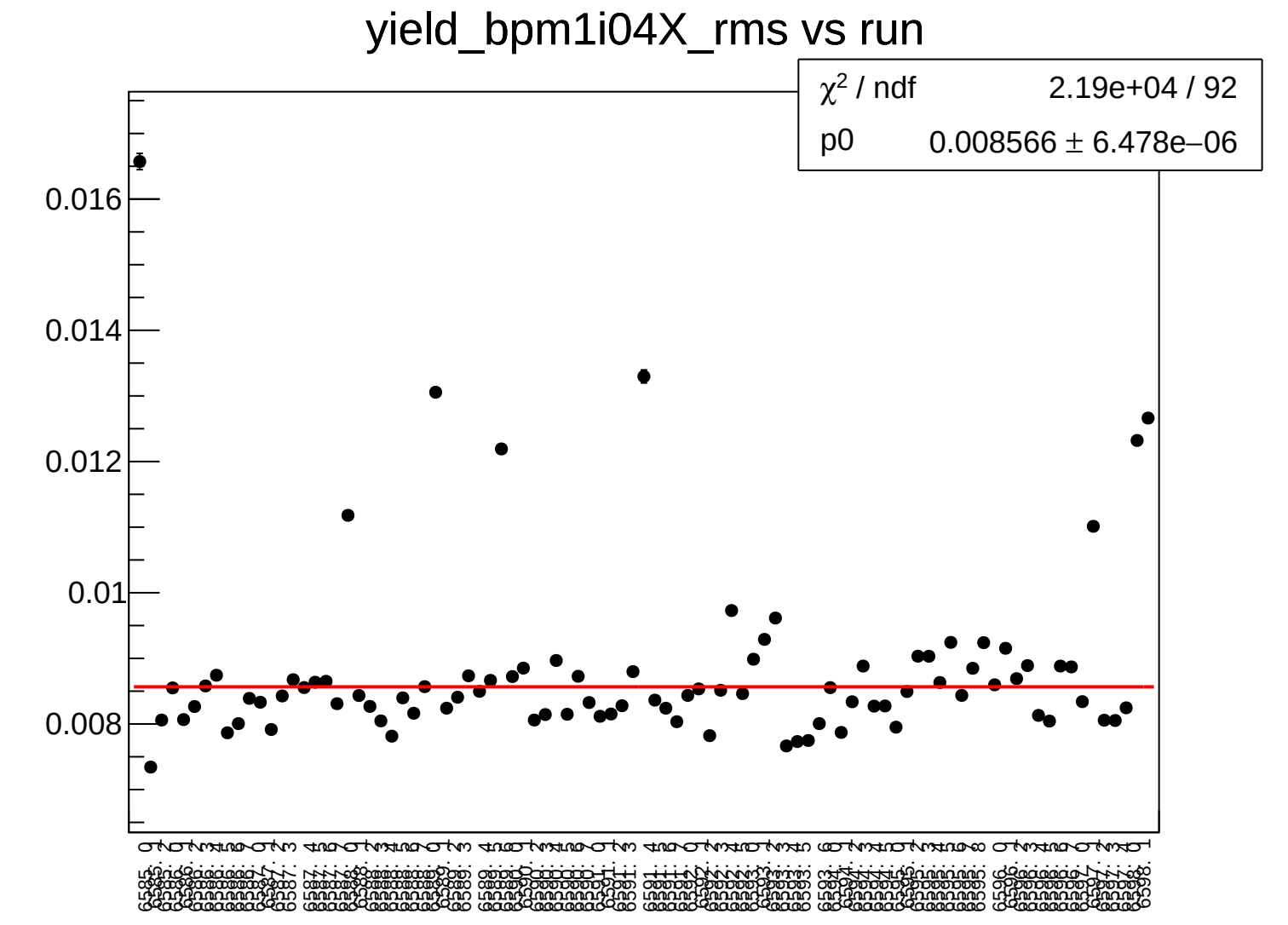

yield_bpm1i02Y_mean vs run
χ² / ndf 1.282e+07 / 92
p0 −1.28 ± 1.165e−05
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
pull
Entries 93
Mean 131.9
Std Dev 0
1500
1000
500
0
−500

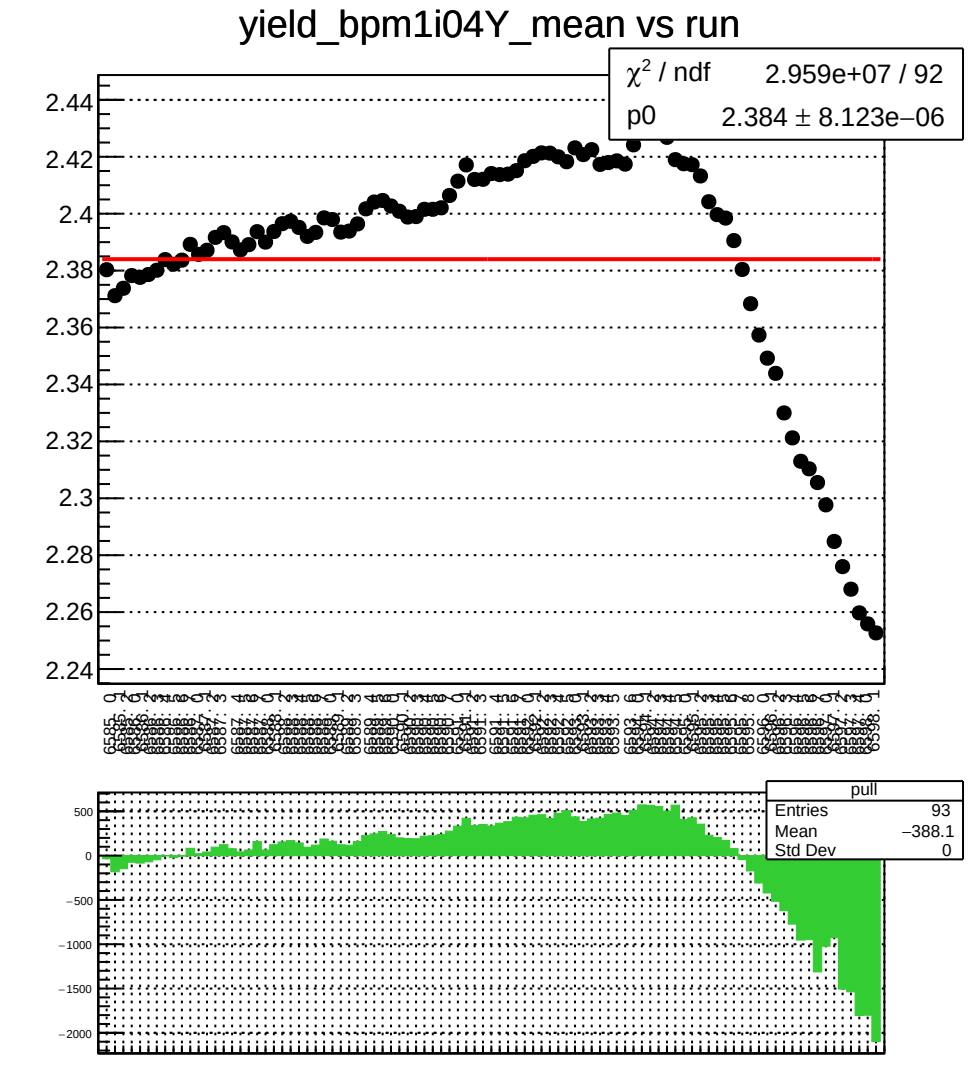

pull1D
Entries 93
Mean 7.049
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

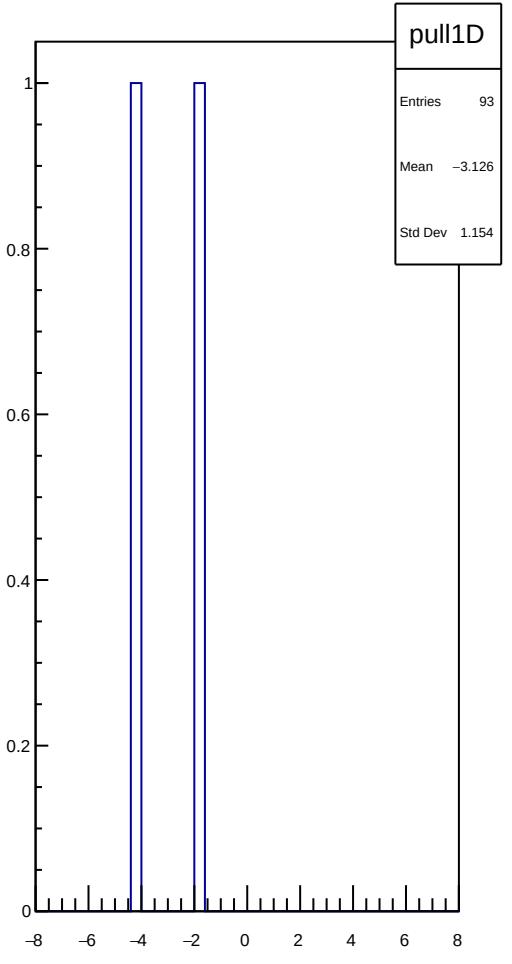

yield_bpm1i02Y_rms vs run
χ² / ndf 8055 / 92
p0 0.01093 ± 8.234e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

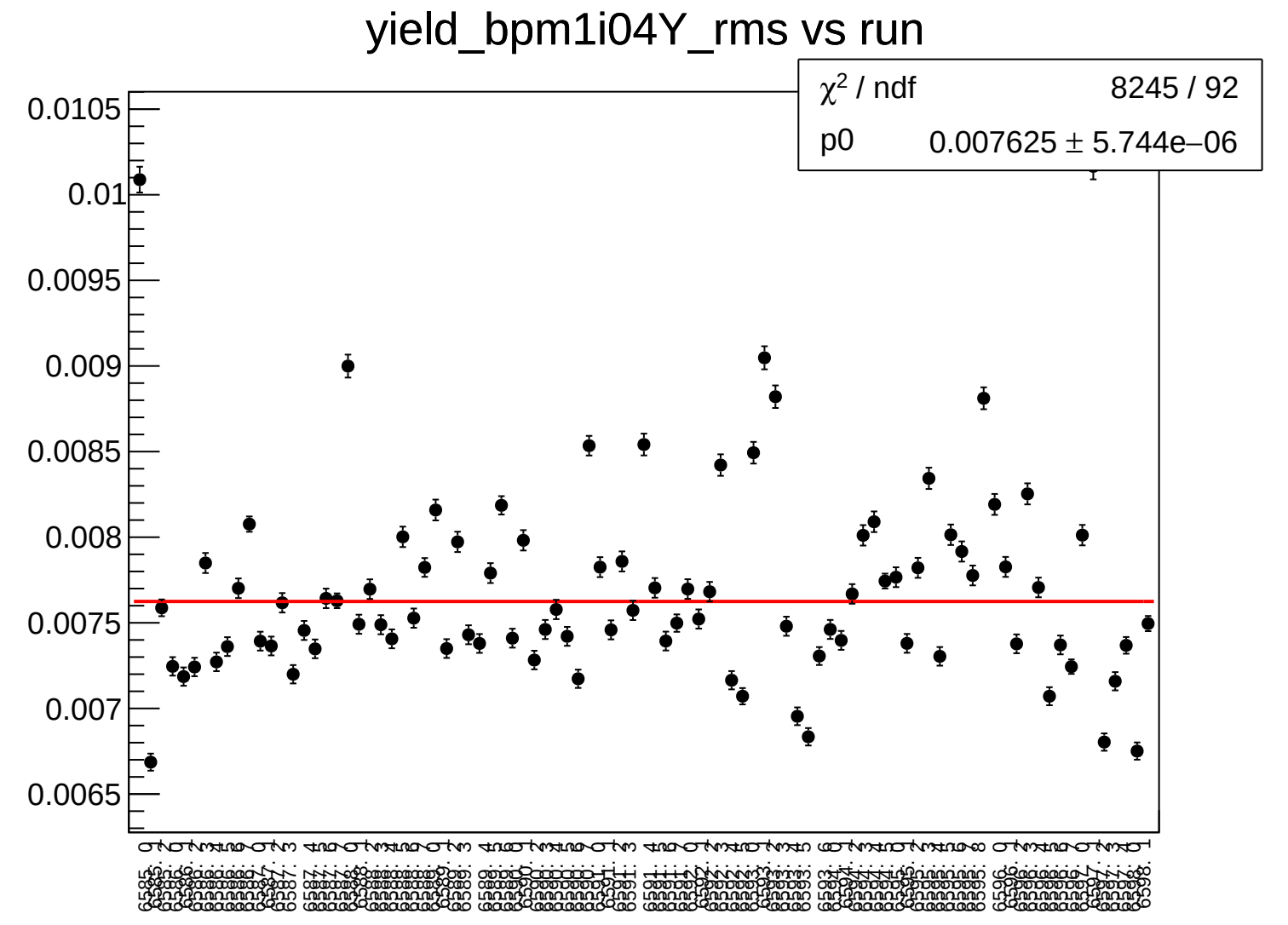

yield_bpm1i04X_mean vs run
χ² / ndf 4.434e+06 / 92
p0 1.106 ± 9.161e−06
1.13
1.12
1.11
1.1
1.09
1.08
1.07
1.06
1.05
1.04
pull
Entries 93
Mean 990
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

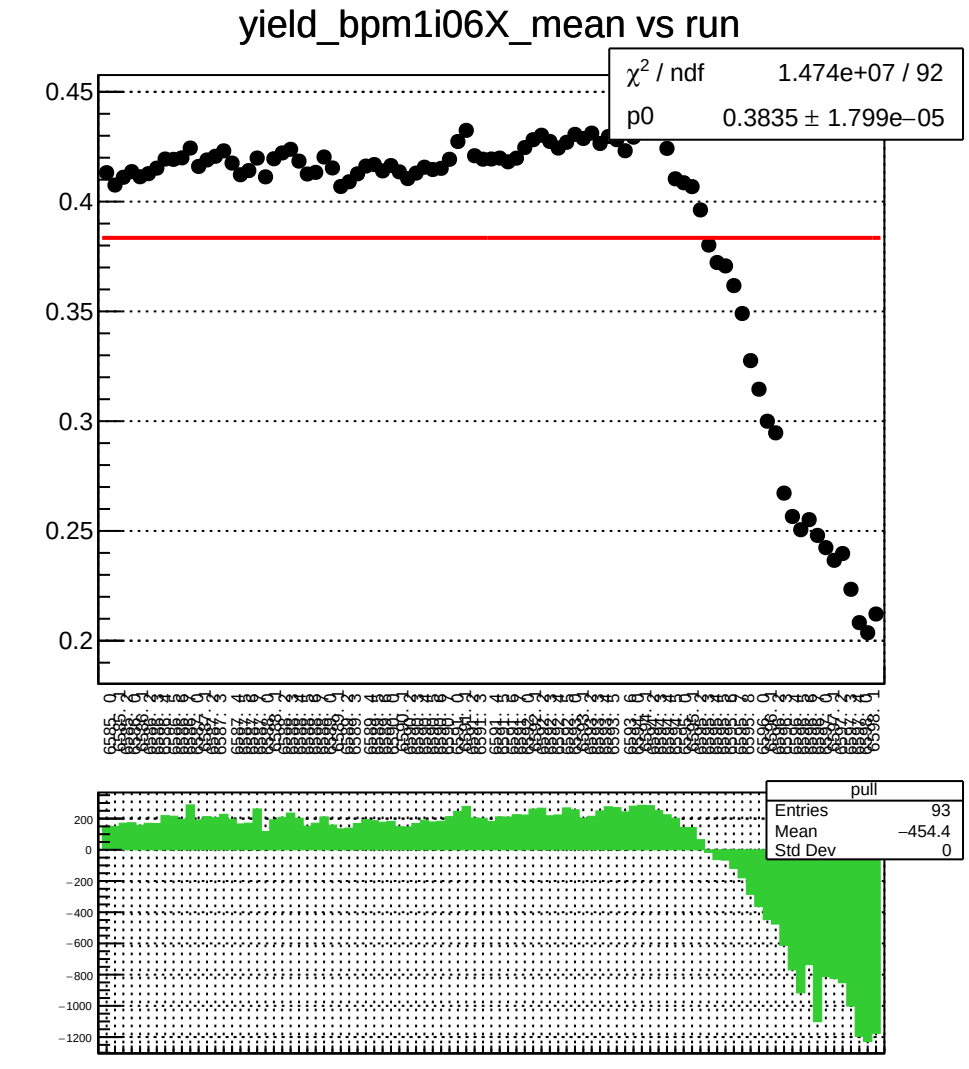

pull1D
Entries 93
Mean −3.64
Std Dev 1.779
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

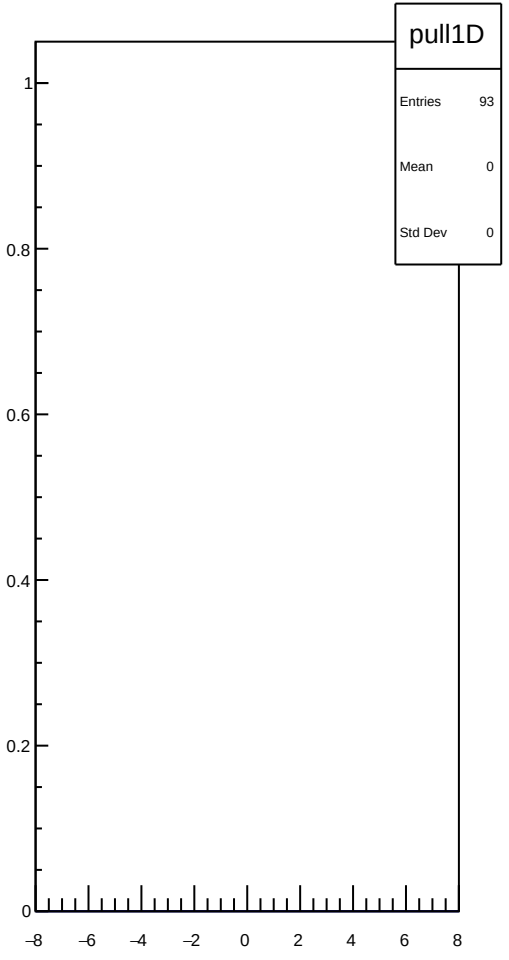

yield_bpm1i04X_rms vs run
χ² / ndf 2.19e+04 / 92
p0 0.008566 ± 6.478e−06
0.016
0.014
0.012
0.01
0.008


yield_bpm1i04Y_mean vs run
χ² / ndf 2.959e+07 / 92
p0 2.384 ± 8.123e−06
2.44
2.42
2.4
2.38
2.36
2.34
2.32
2.3
2.28
2.26
2.24
pull
Entries 93
Mean −388.1
Std Dev 0
500
0
−500
−1000
−1500
−2000

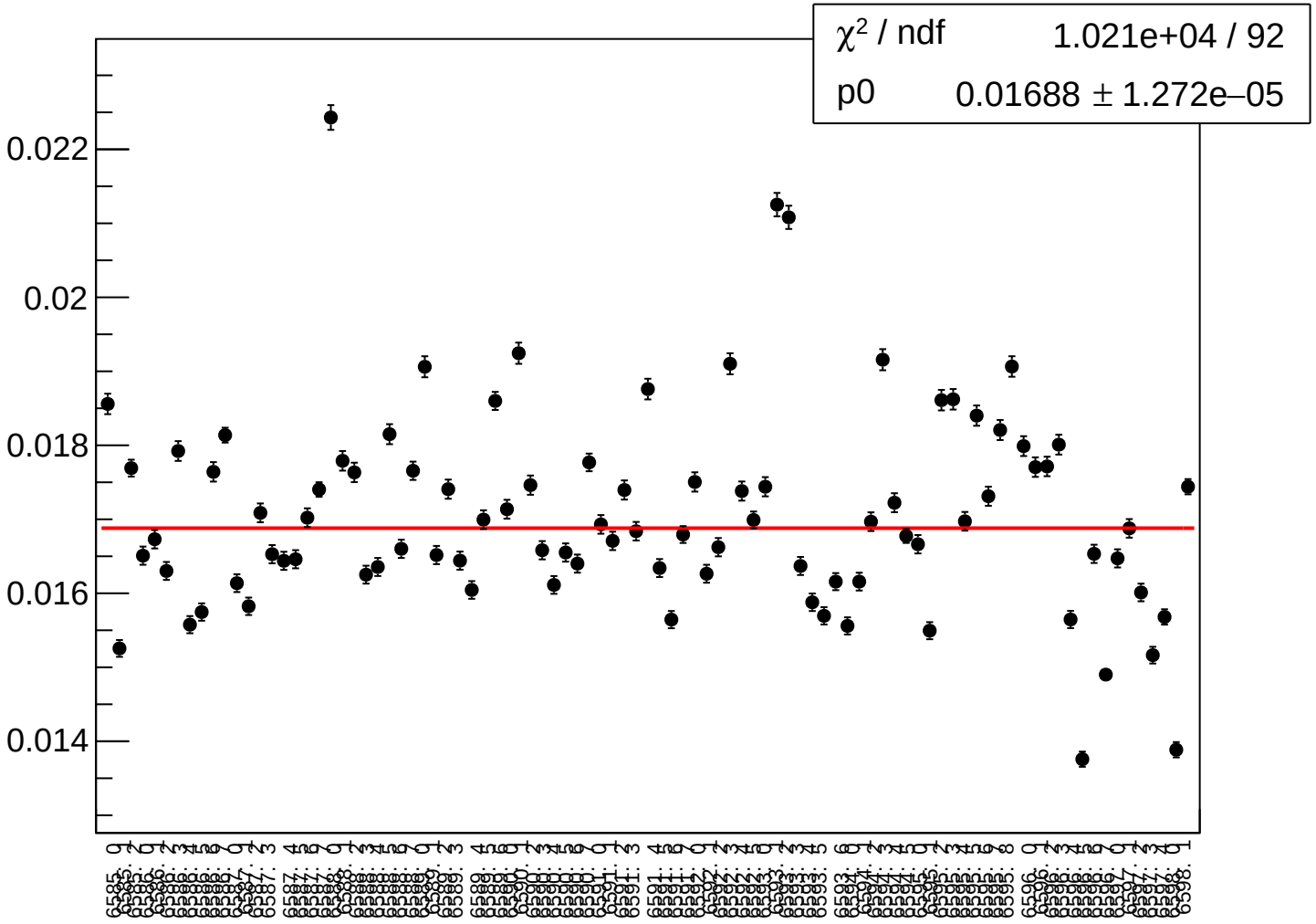

pull1D
Entries 93
Mean −3.126
Std Dev 1.154
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

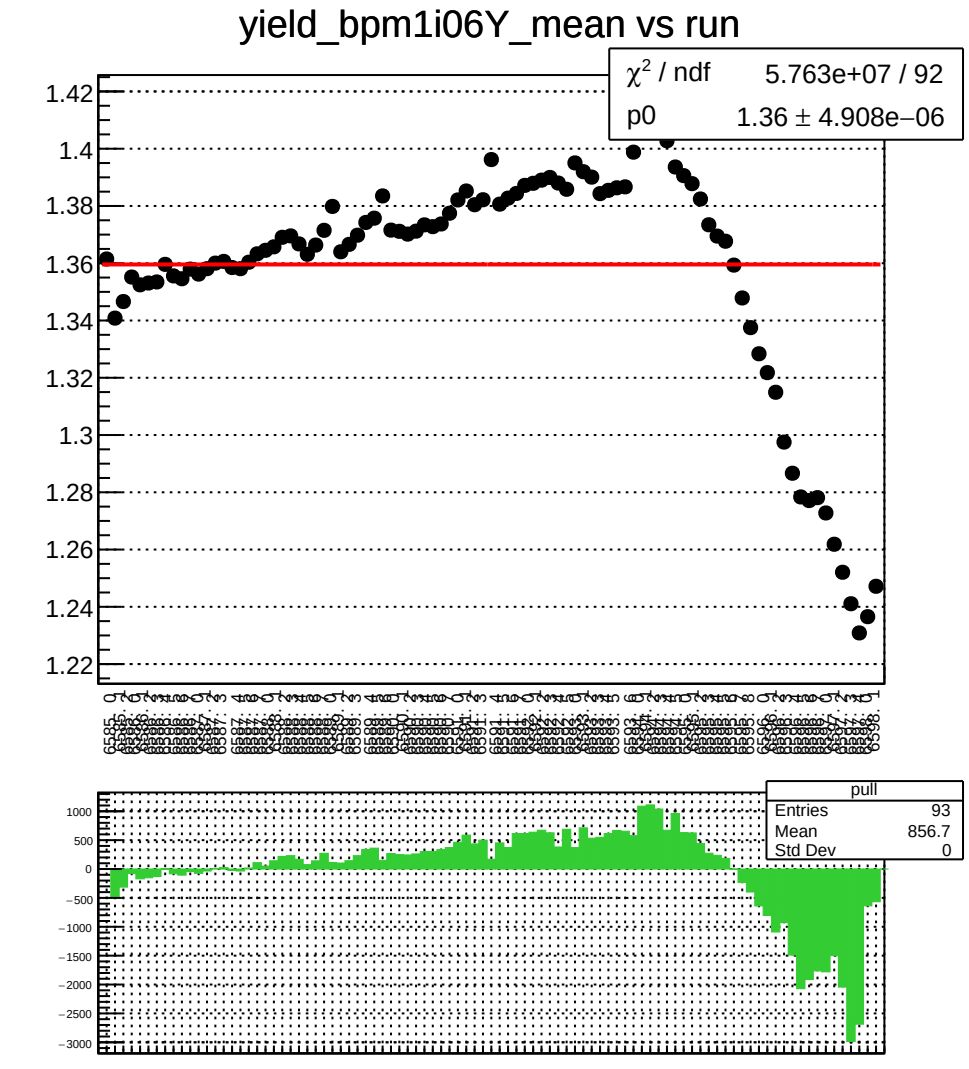

yield_bpm1i04Y_rms vs run
χ² / ndf 8245 / 92
p0 0.007625 ± 5.744e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

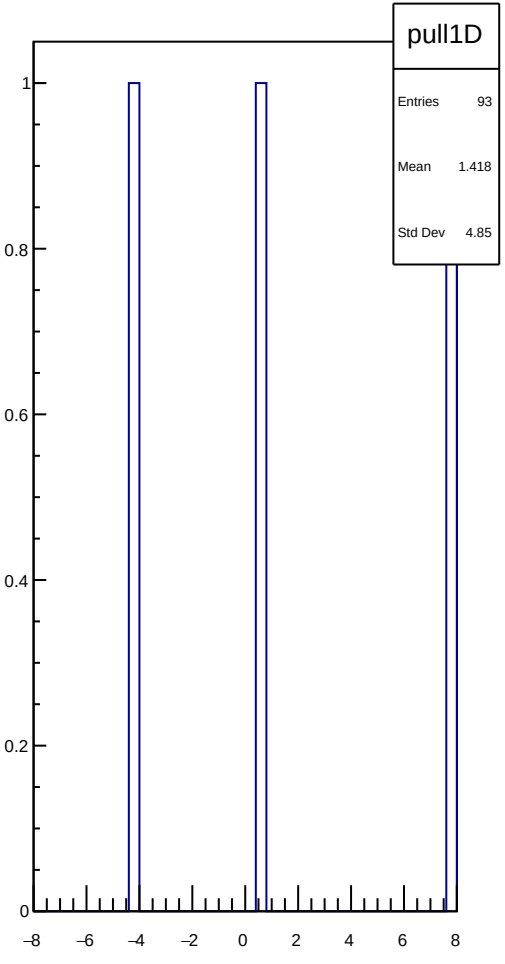

yield_bpm1i06X_mean vs run
χ² / ndf 1.474e+07 / 92
p0 0.3835 ± 1.799e−05
0.45
0.4
0.35
0.3
0.25
0.2
pull
Entries 93
Mean −454.4
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200

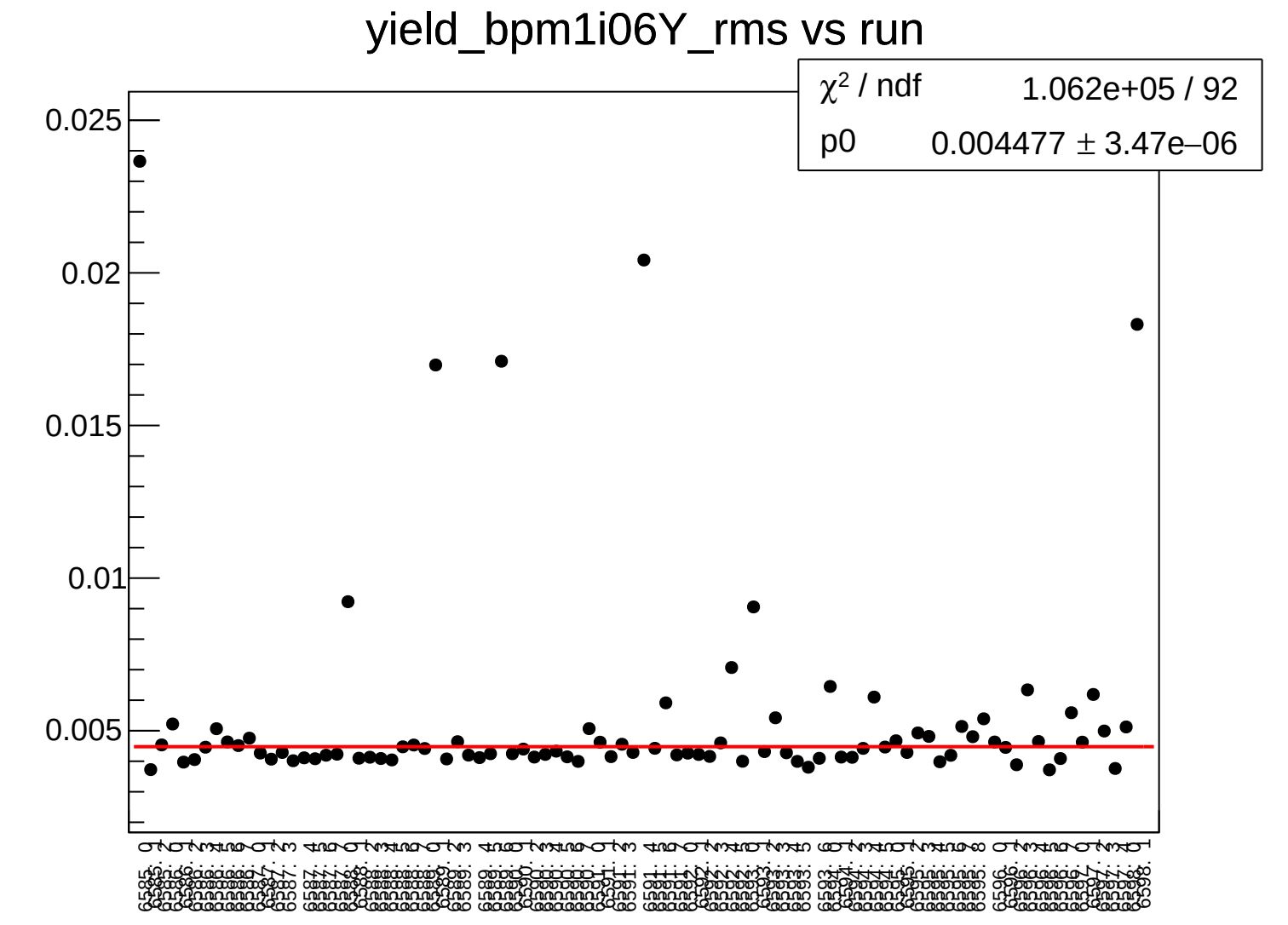

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

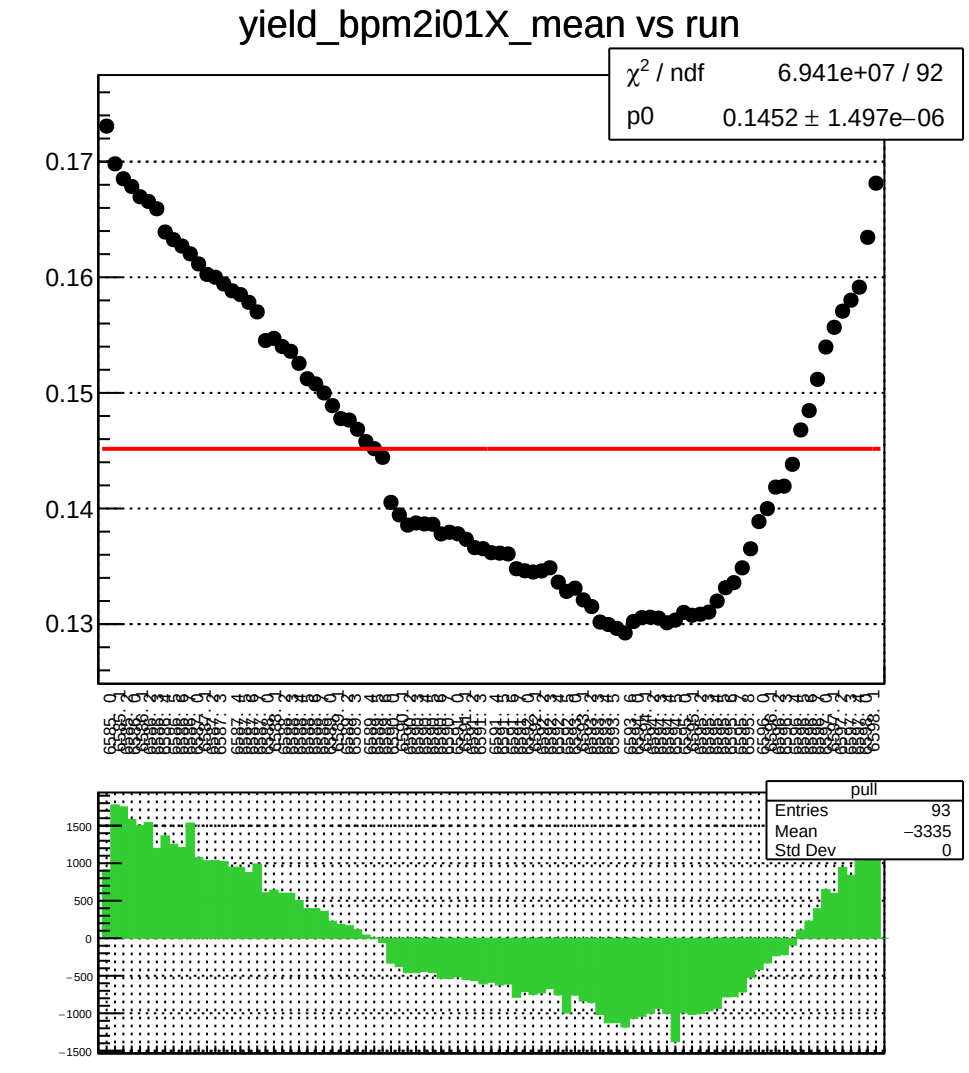
yield_bpm1i06X_rms vs run

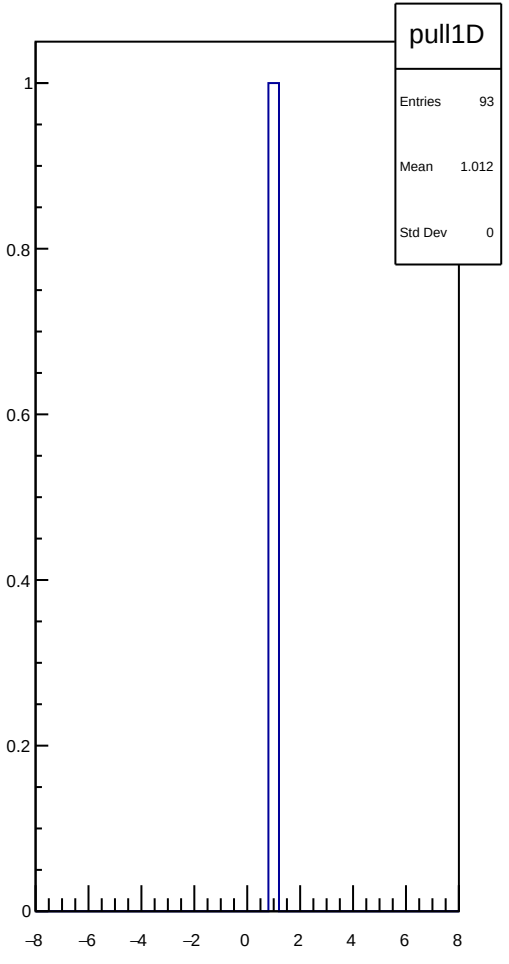



yield_bpm1i06Y_mean vs run
χ² / ndf 5.763e+07 / 92
p0 1.36 ± 4.908e−06
1.42
1.4
1.38
1.36
1.34
1.32
1.3
1.28
1.26
1.24
1.22
pull
Entries 93
Mean 856.7
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

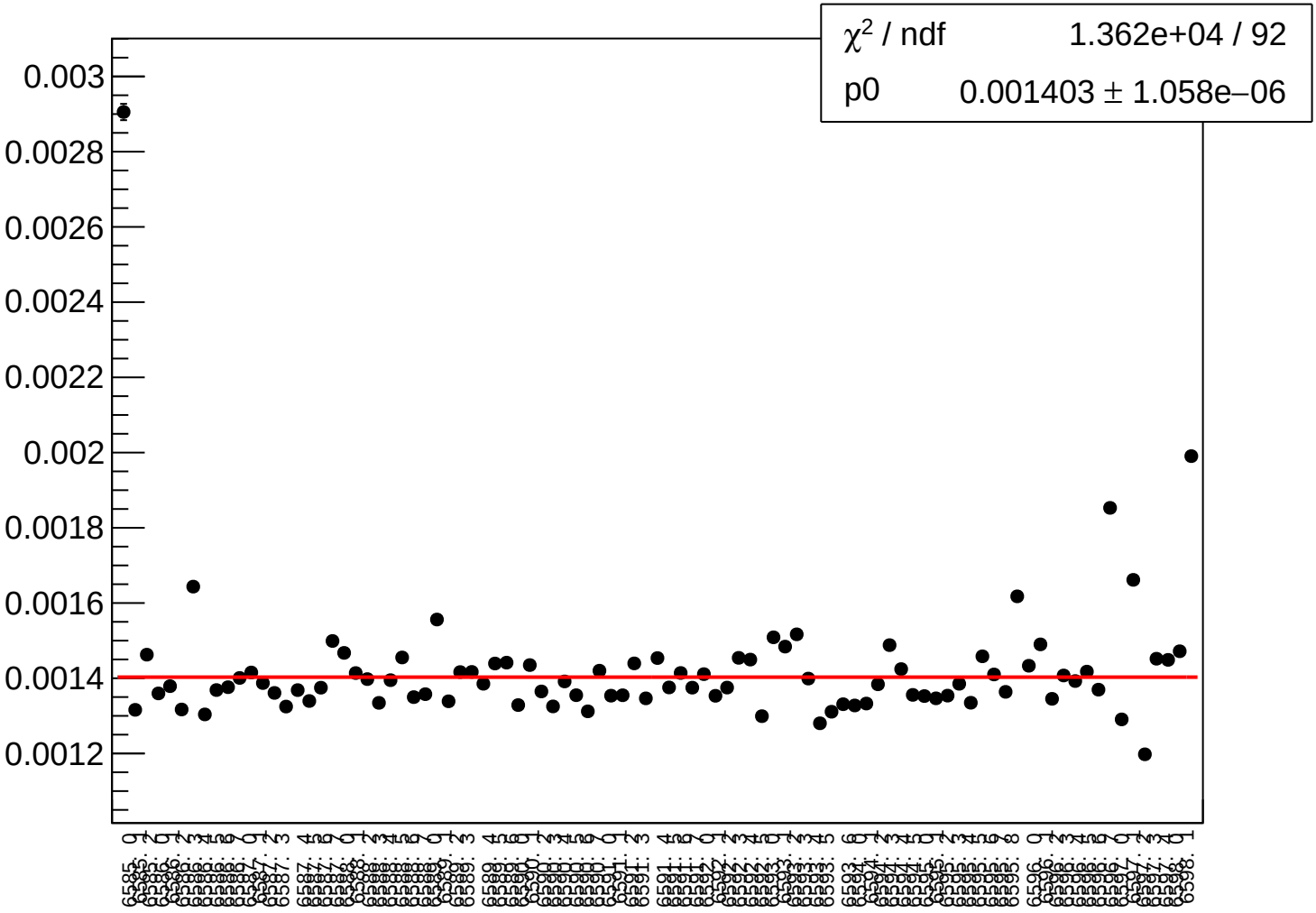

pull1D
Entries 93
Mean 1.418
Std Dev 4.85
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

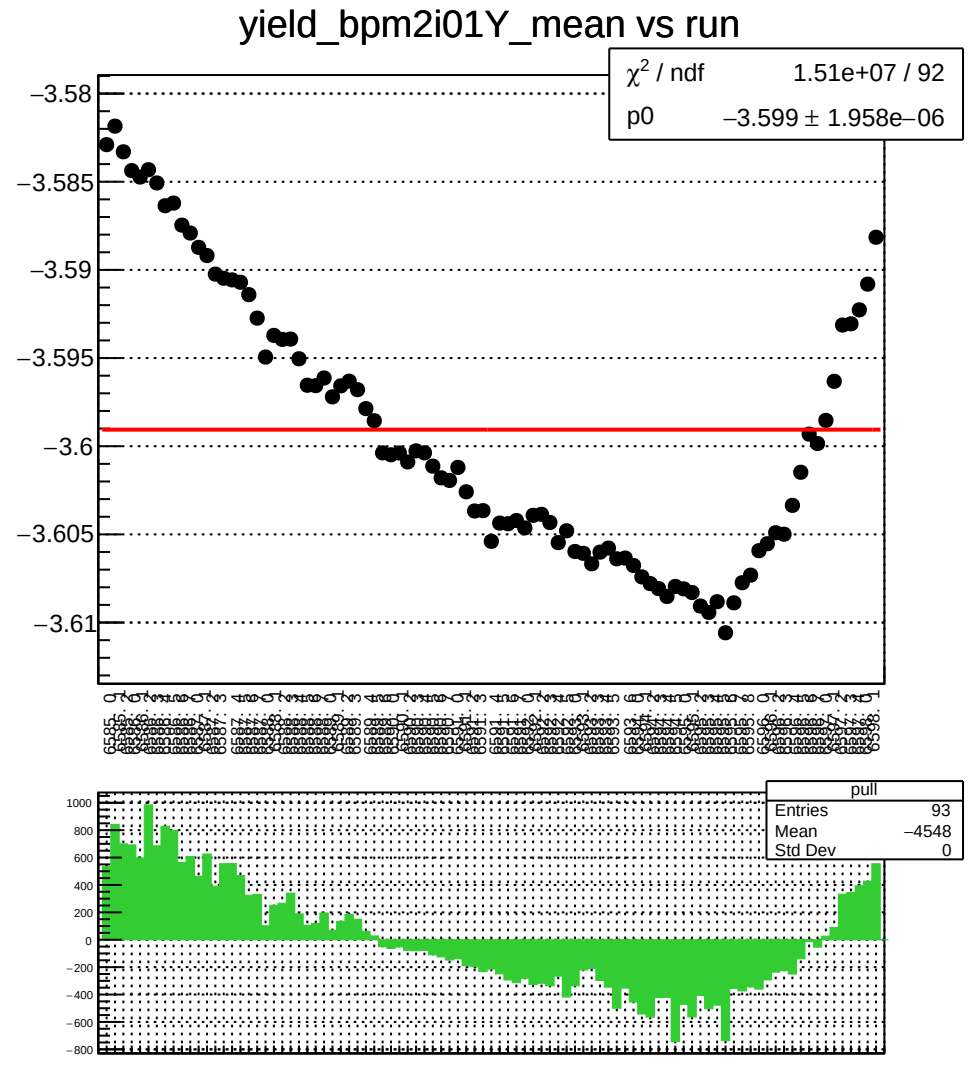

yield_bpm1i06Y_rms vs run
χ² / ndf 1.062e+05 / 92
p0 0.004477 ± 3.47e–06
0.025
0.02
0.015
0.01
0.005

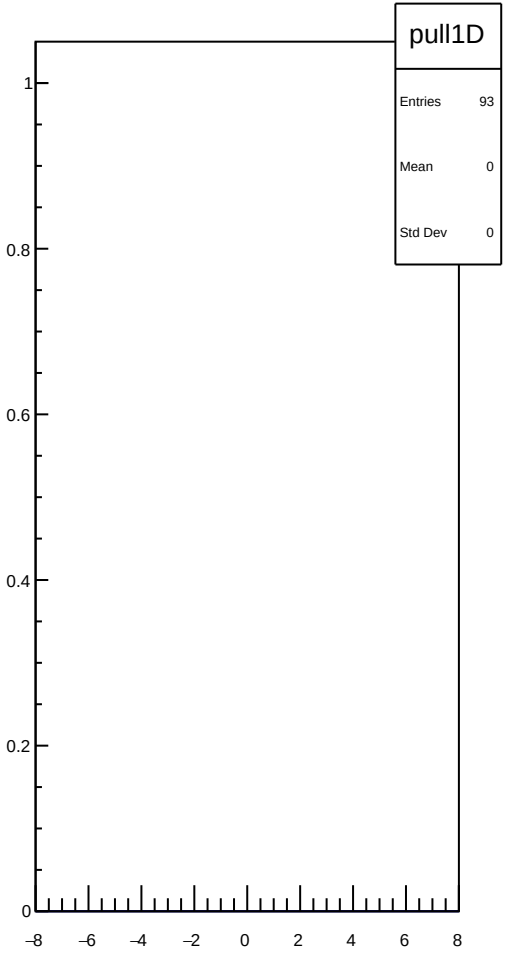

yield_bpm2i01X_mean vs run
χ² / ndf 6.941e+07 / 92
p0 0.1452 ± 1.497e−06
0.17
0.16
0.15
0.14
0.13
pull
Entries 93
Mean −3335
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

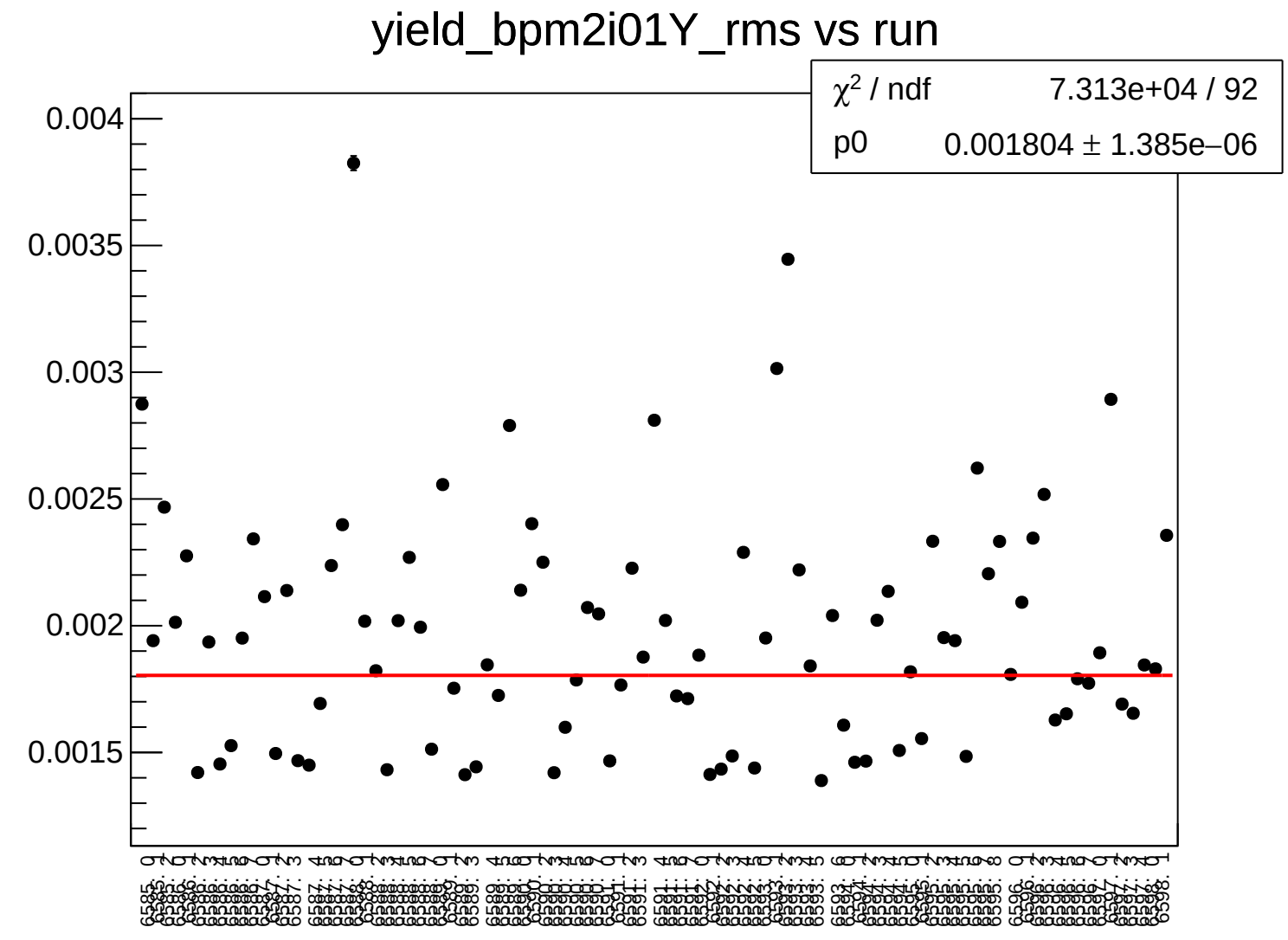

pull1D
Entries 93
Mean 1.012
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

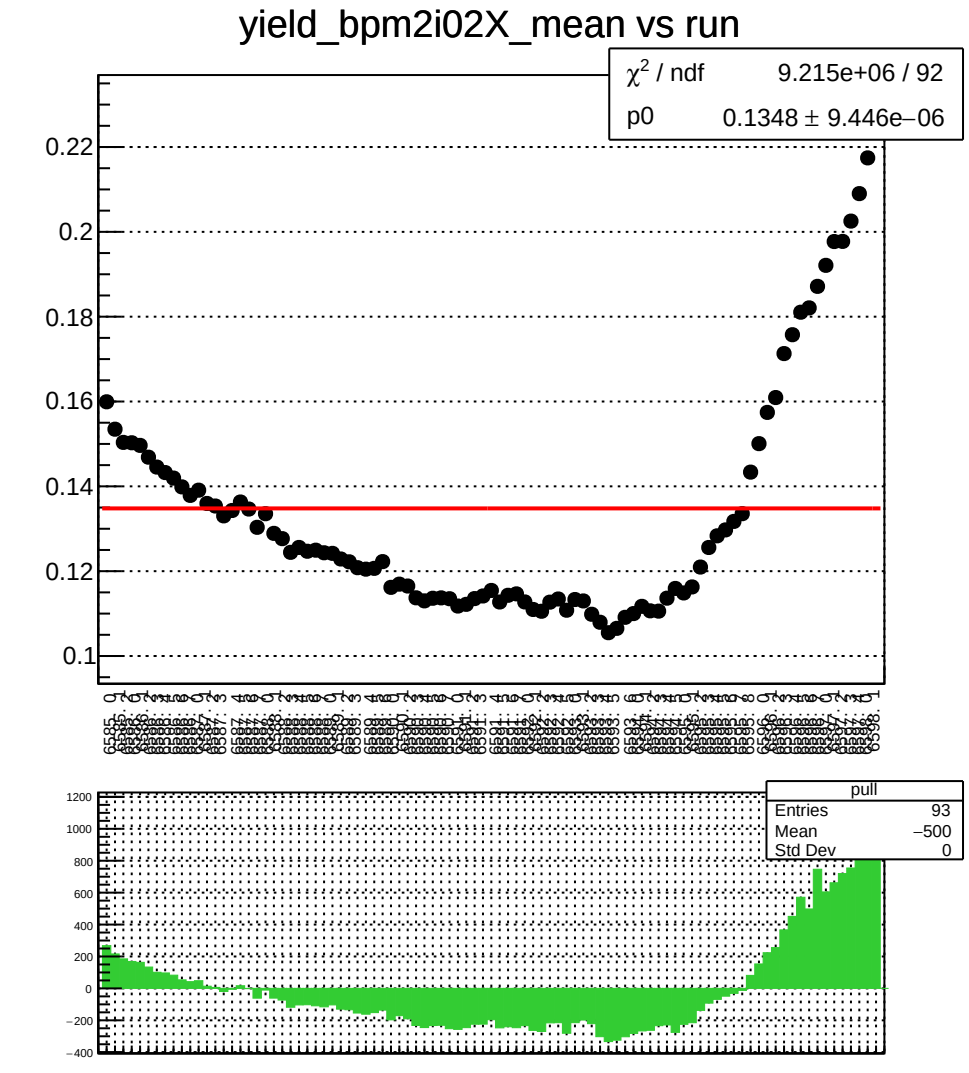
yield_bpm2i01X_rms vs run

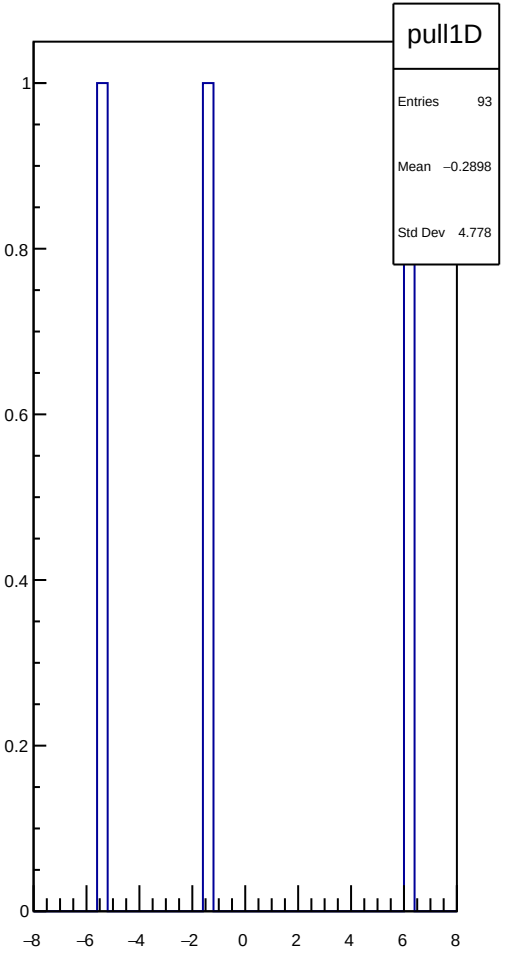


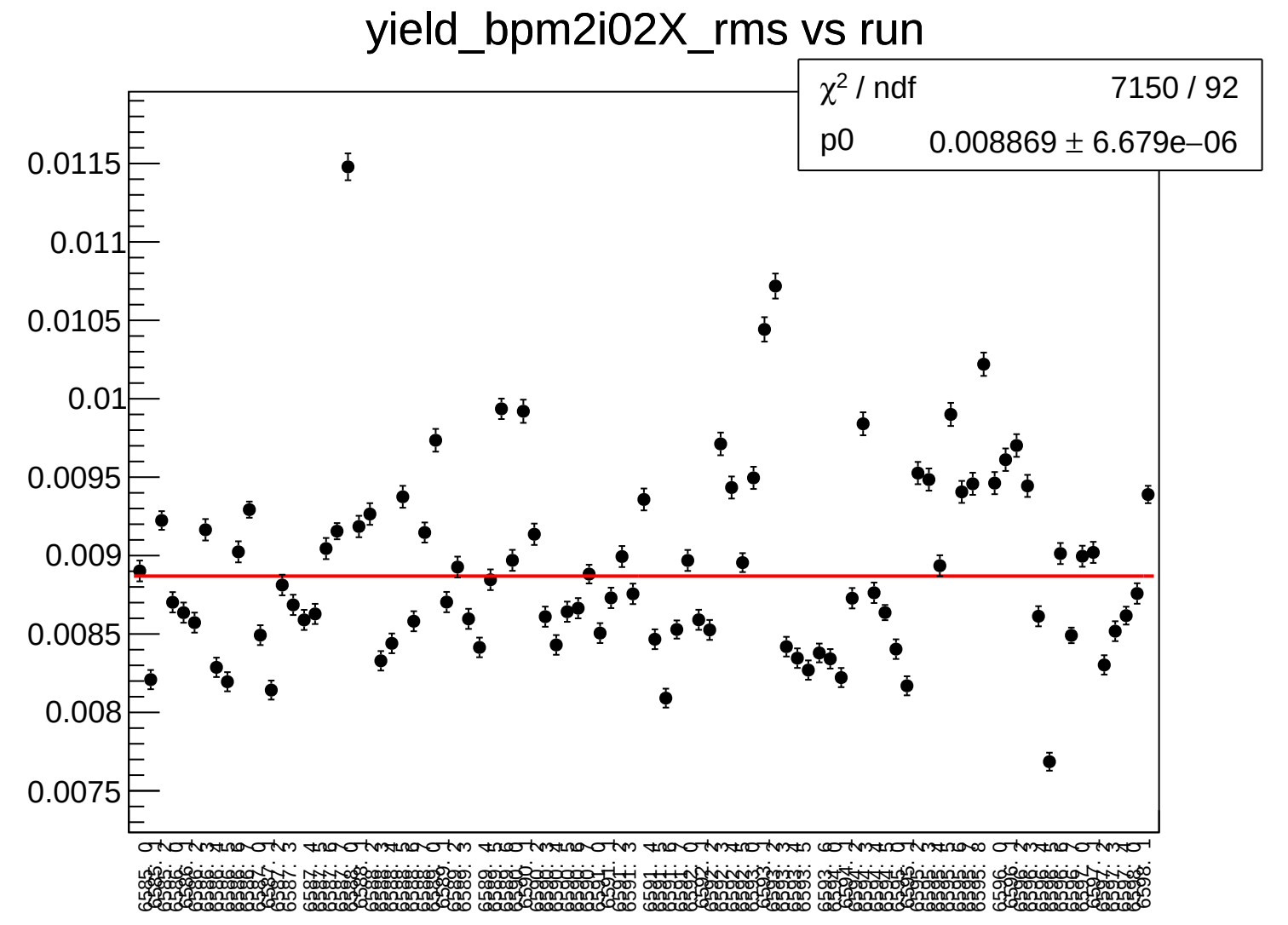

yield_bpm2i01Y_mean vs run
χ² / ndf 1.51e+07 / 92
p0 −3.599 ± 1.958e−06
−3.58
−3.585
−3.59
−3.595
−3.6
−3.605
−3.61
pull
Entries 93
Mean −4548
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

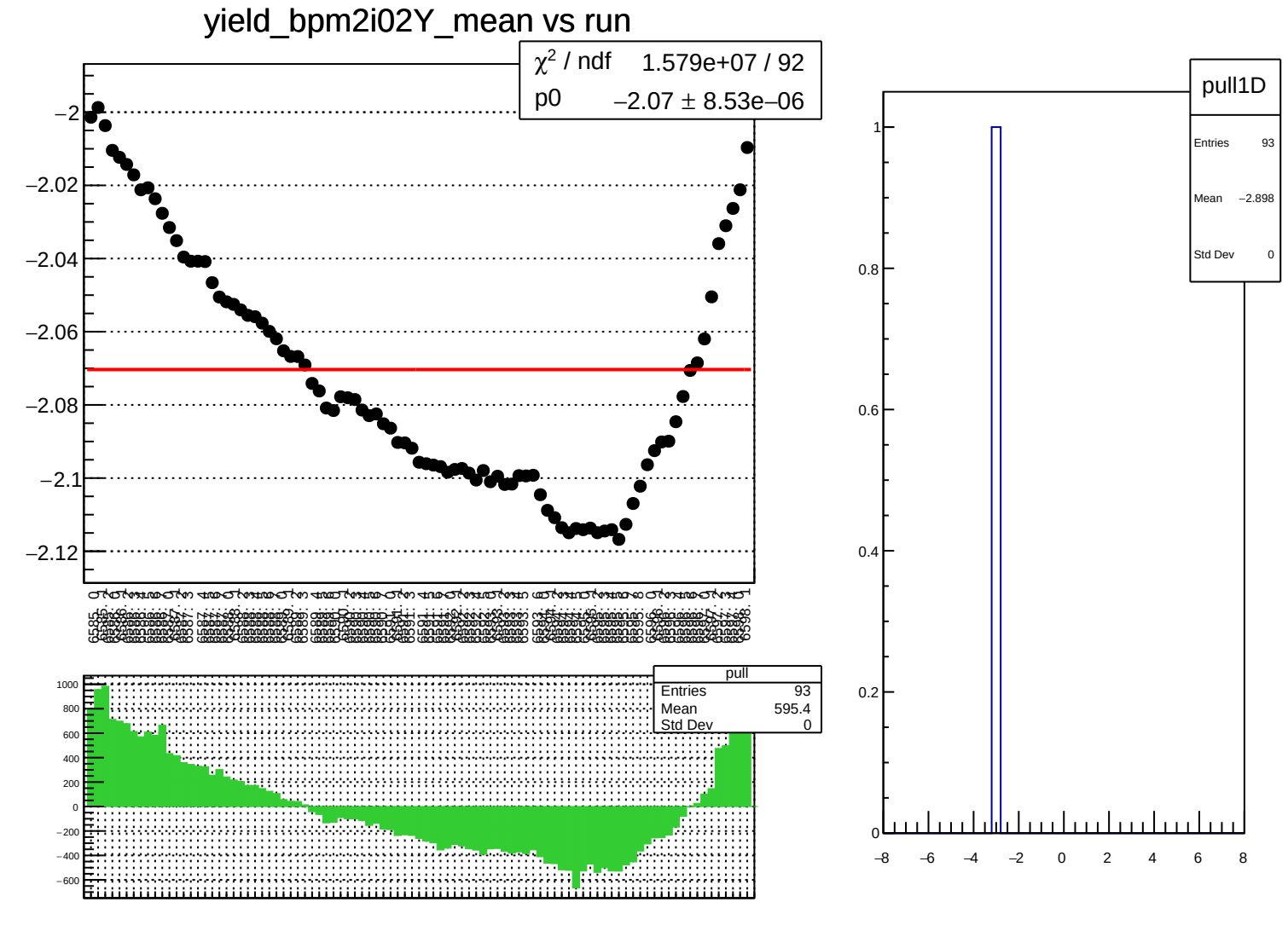

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

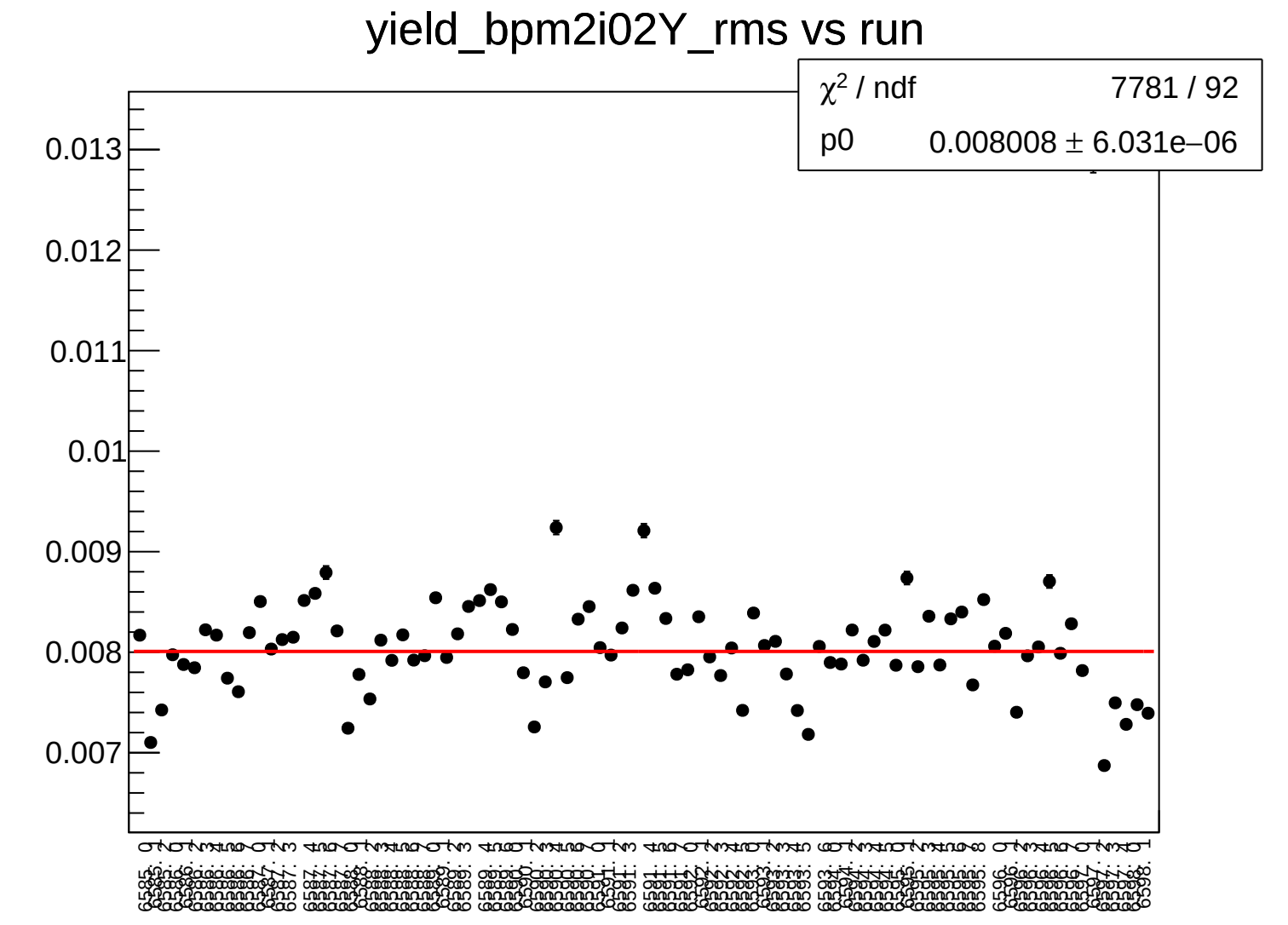

yield_bpm2i01Y_rms vs run
χ² / ndf 7.313e+04 / 92
p0 0.001804 ± 1.385e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

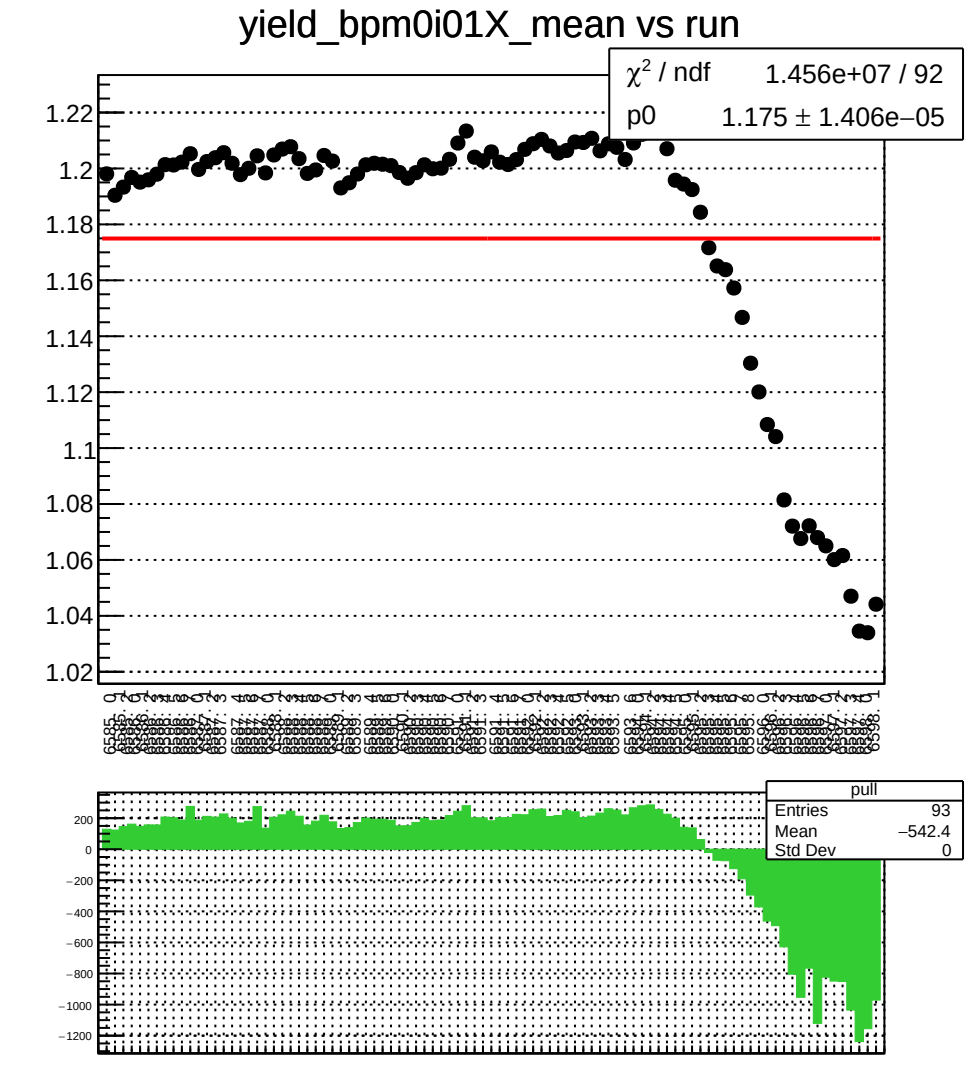

yield_bpm2i02X_mean vs run
χ² / ndf 9.215e+06 / 92
p0 0.1348 ± 9.446e−06
0.22
0.2
0.18
0.16
0.14
0.12
0.1
pull
Entries 93
Mean −500
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

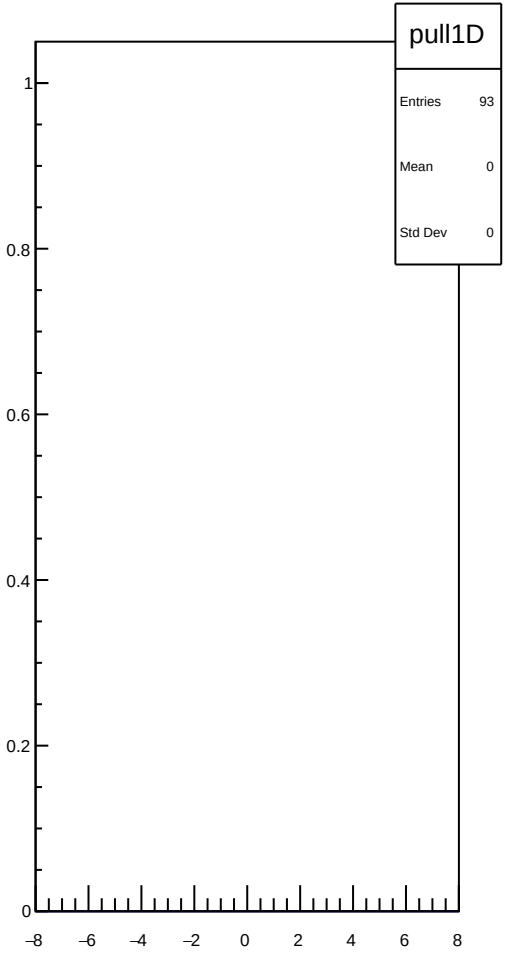

pull1D
Entries 93
Mean −0.2898
Std Dev 4.778
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

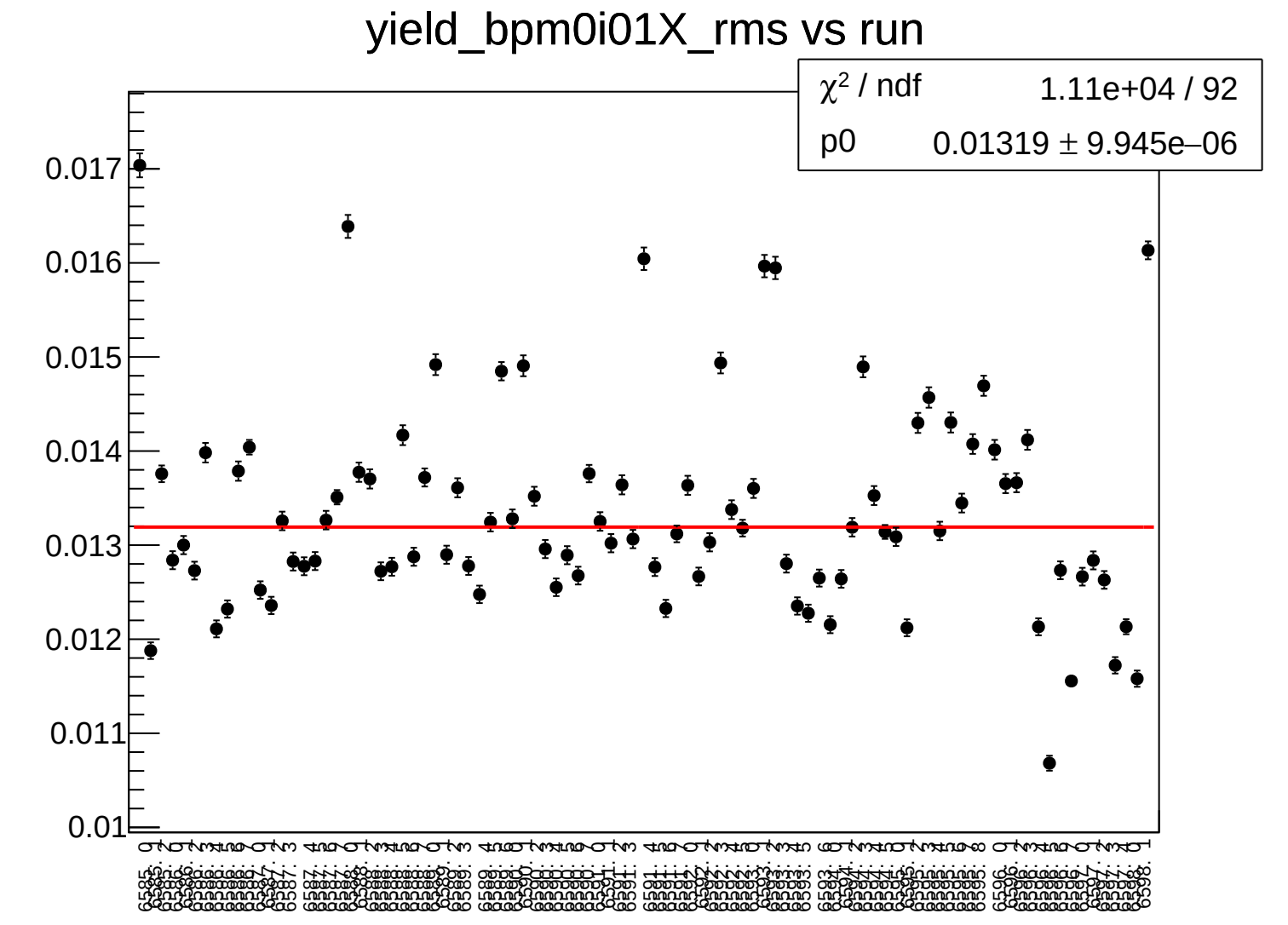

yield_bpm2i02X_rms vs run
χ² / ndf 7150 / 92
p0 0.008869 ± 6.679e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

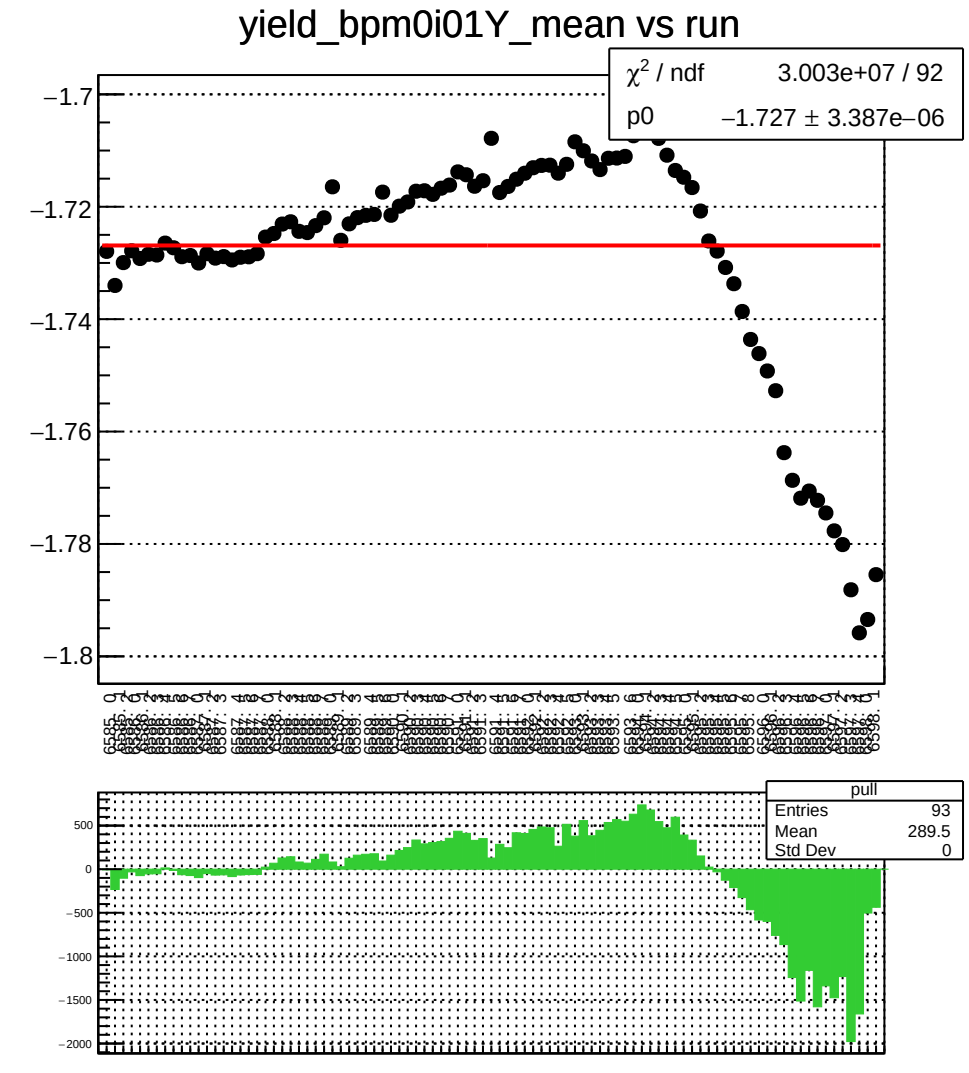

yield_bpm2i02Y_mean vs run
χ² / ndf 1.579e+07 / 92
p0 −2.07 ± 8.53e−06
−2
−2.02
−2.04
−2.06
−2.08
−2.1
−2.12
pull
Entries 93
Mean 595.4
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 93
Mean −2.898
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

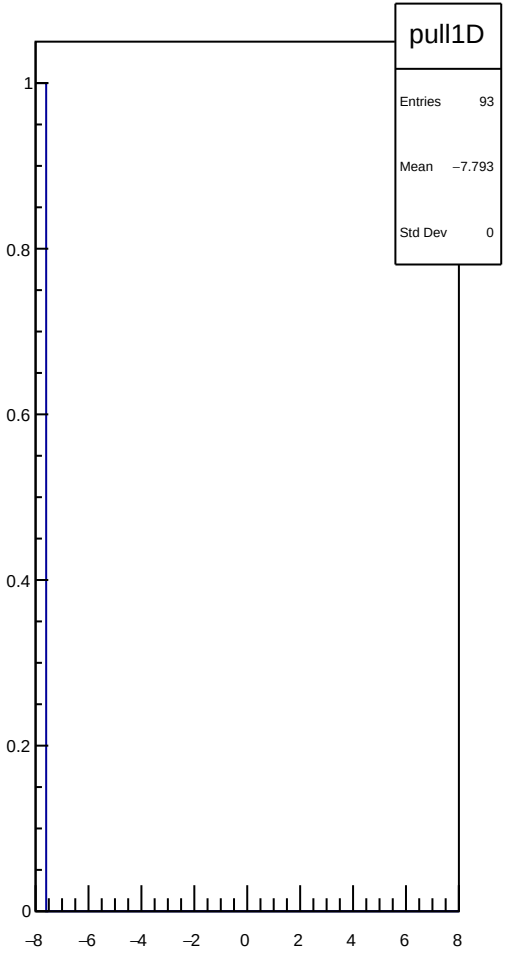

yield_bpm2i02Y_rms vs run
χ^2 / ndf 7781 / 92
p0 0.008008 ± 6.031e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

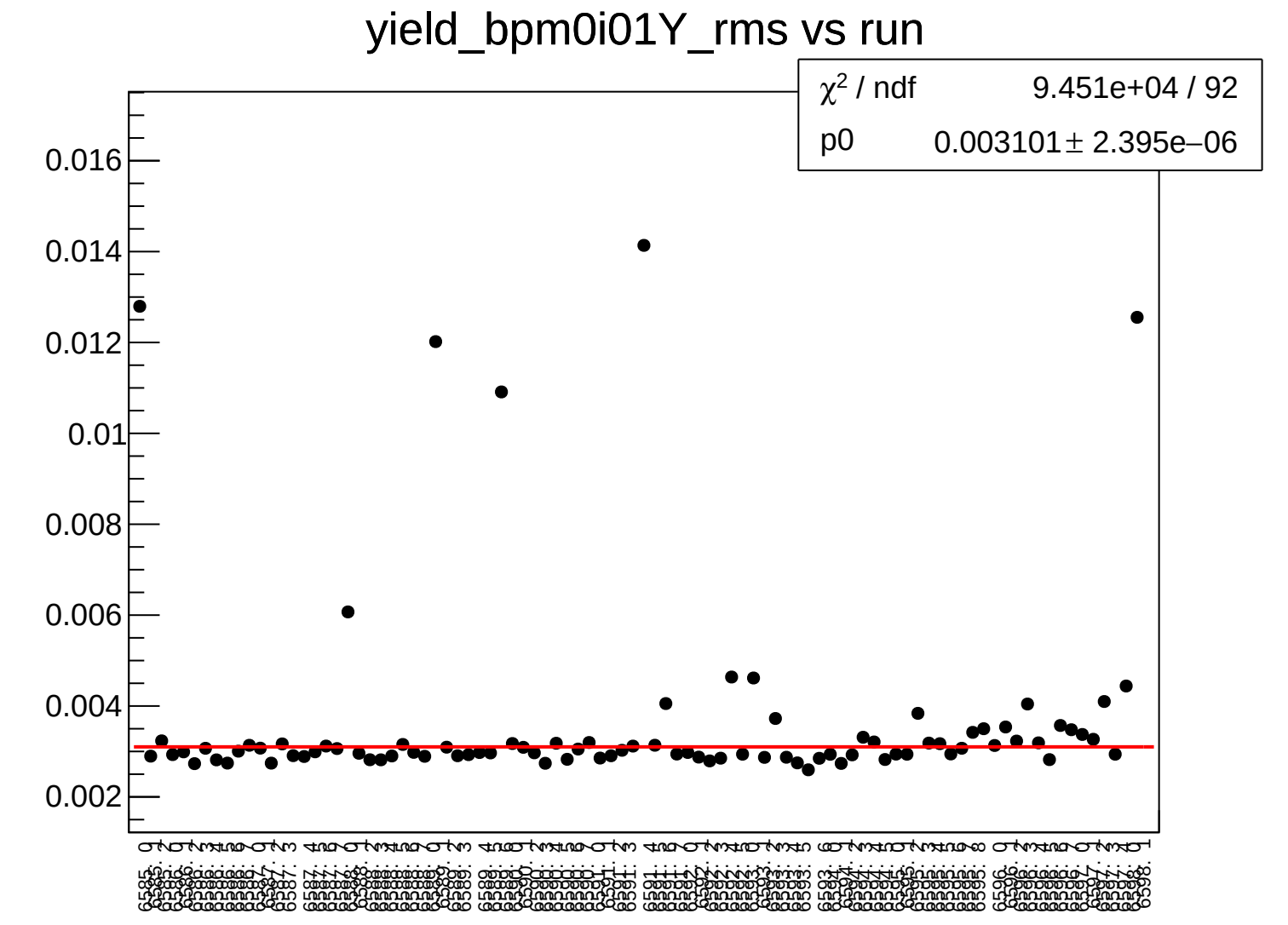

yield_bpm0i01X_mean vs run
χ² / ndf 1.456e+07 / 92
p0 1.175 ± 1.406e−05
1.22
1.2
1.18
1.16
1.14
1.12
1.1
1.08
1.06
1.04
1.02
pull
Entries 93
Mean −542.4
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200

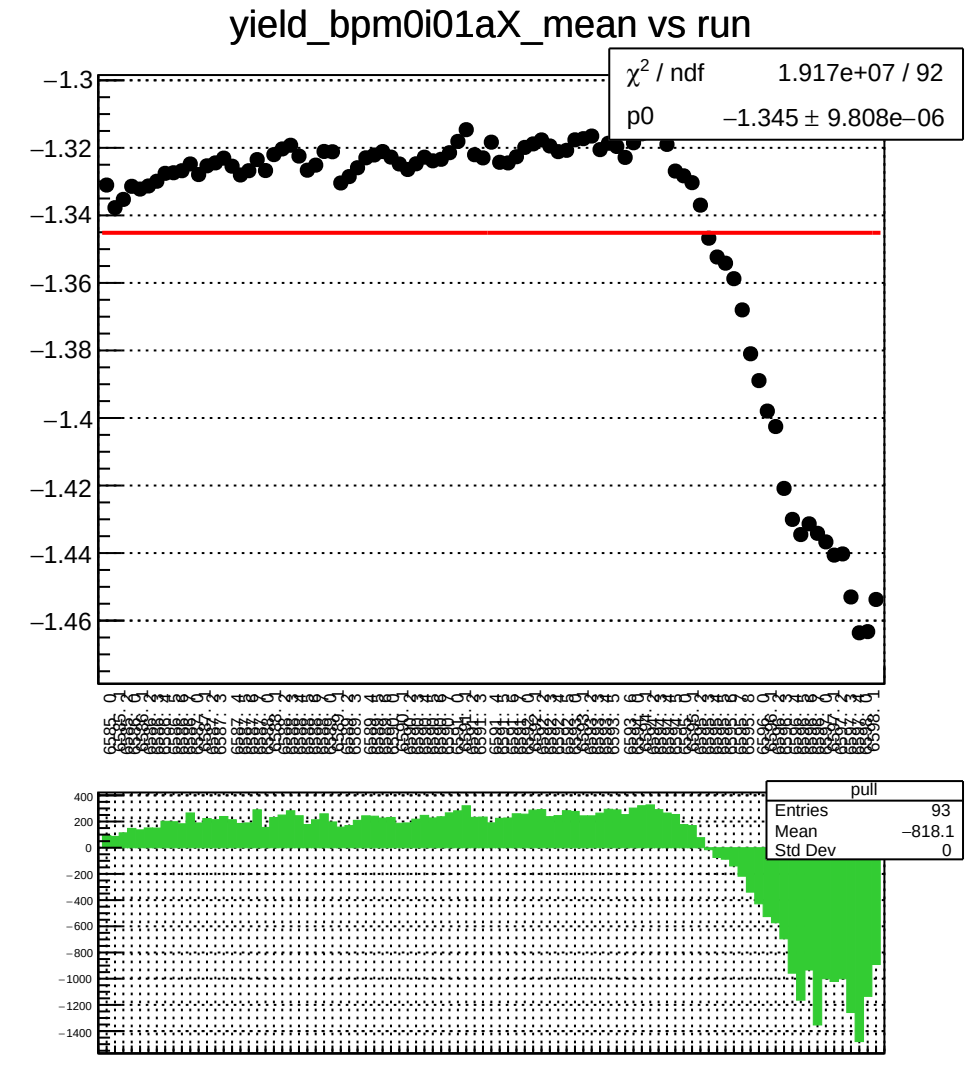

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

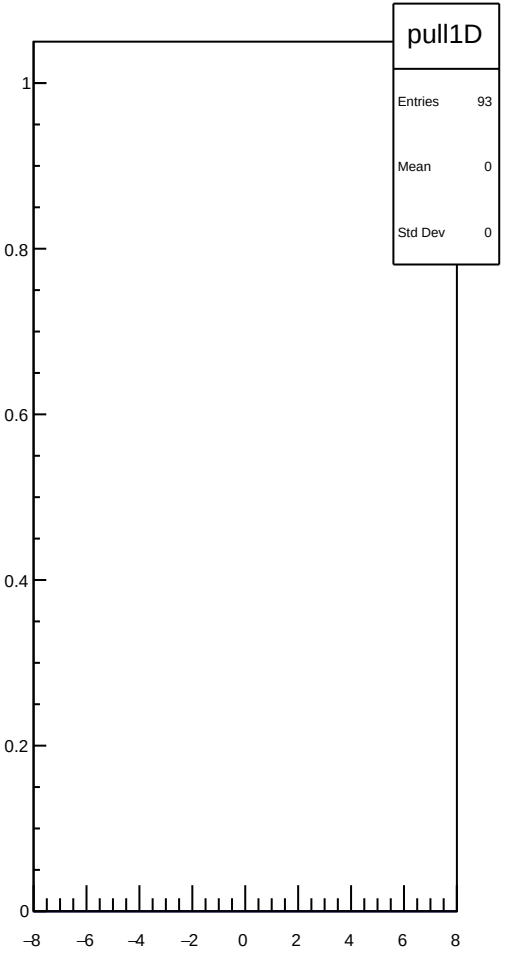

yield_bpm0i01X_rms vs run
χ² / ndf 1.11e+04 / 92
p0 0.01319 ± 9.945e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

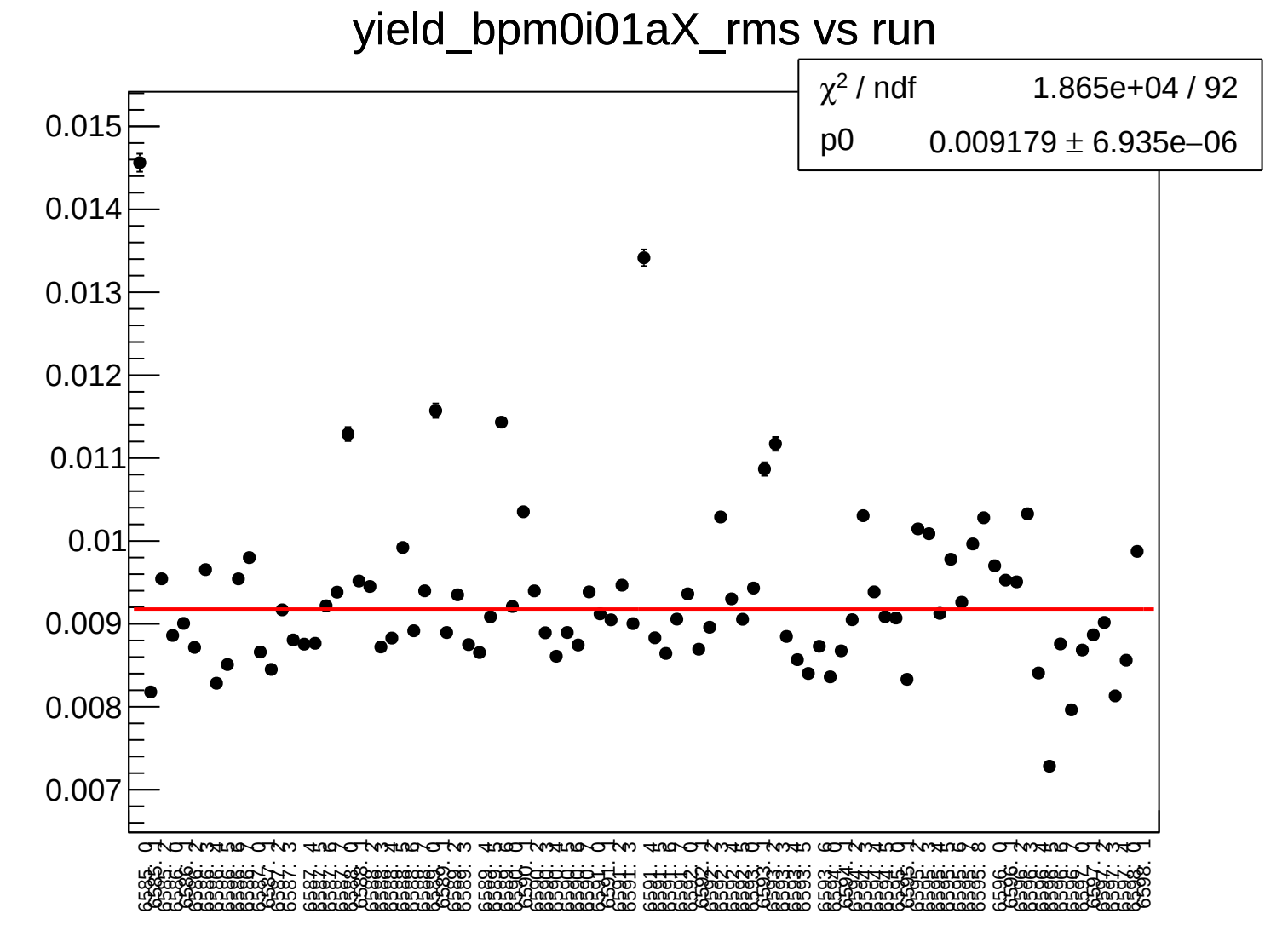

yield_bpm0i01Y_mean vs run
χ² / ndf 3.003e+07 / 92
p0 −1.727 ± 3.387e−06
−1.7
−1.72
−1.74
−1.76
−1.78
−1.8
pull
Entries 93
Mean 289.5
Std Dev 0
500
0
−500
−1000
−1500
−2000

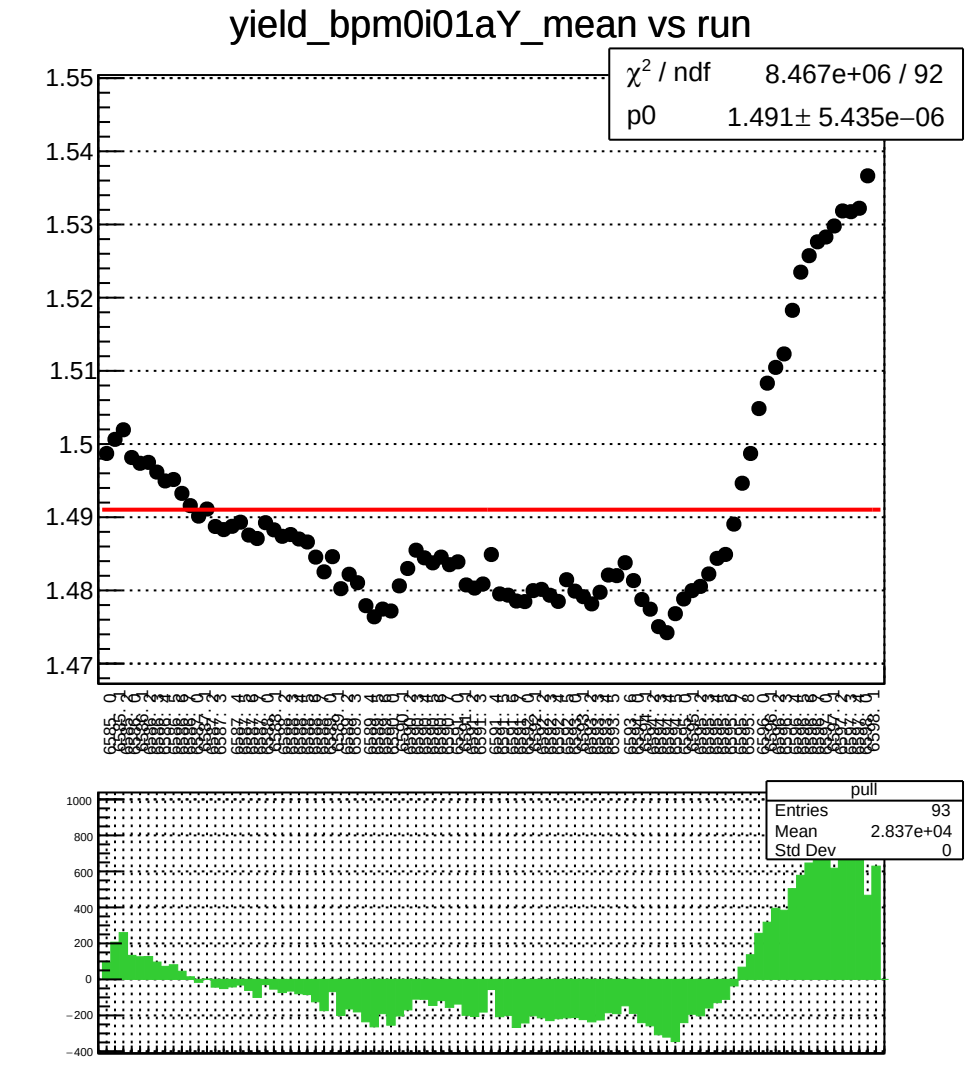

pull1D
Entries 93
Mean −7.793
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

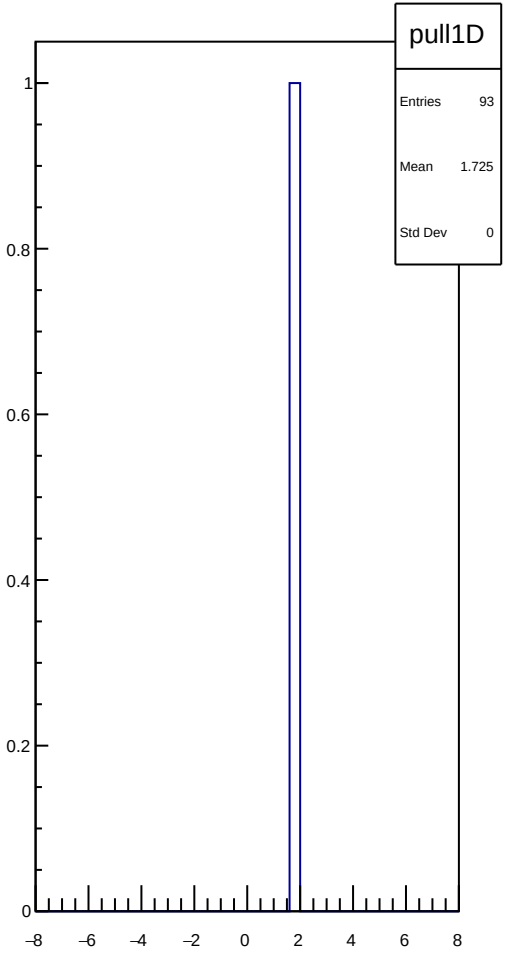

yield_bpm0i01Y_rms vs run
χ^2 / ndf 9.451e+04 / 92
p0 0.003101 ± 2.395e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

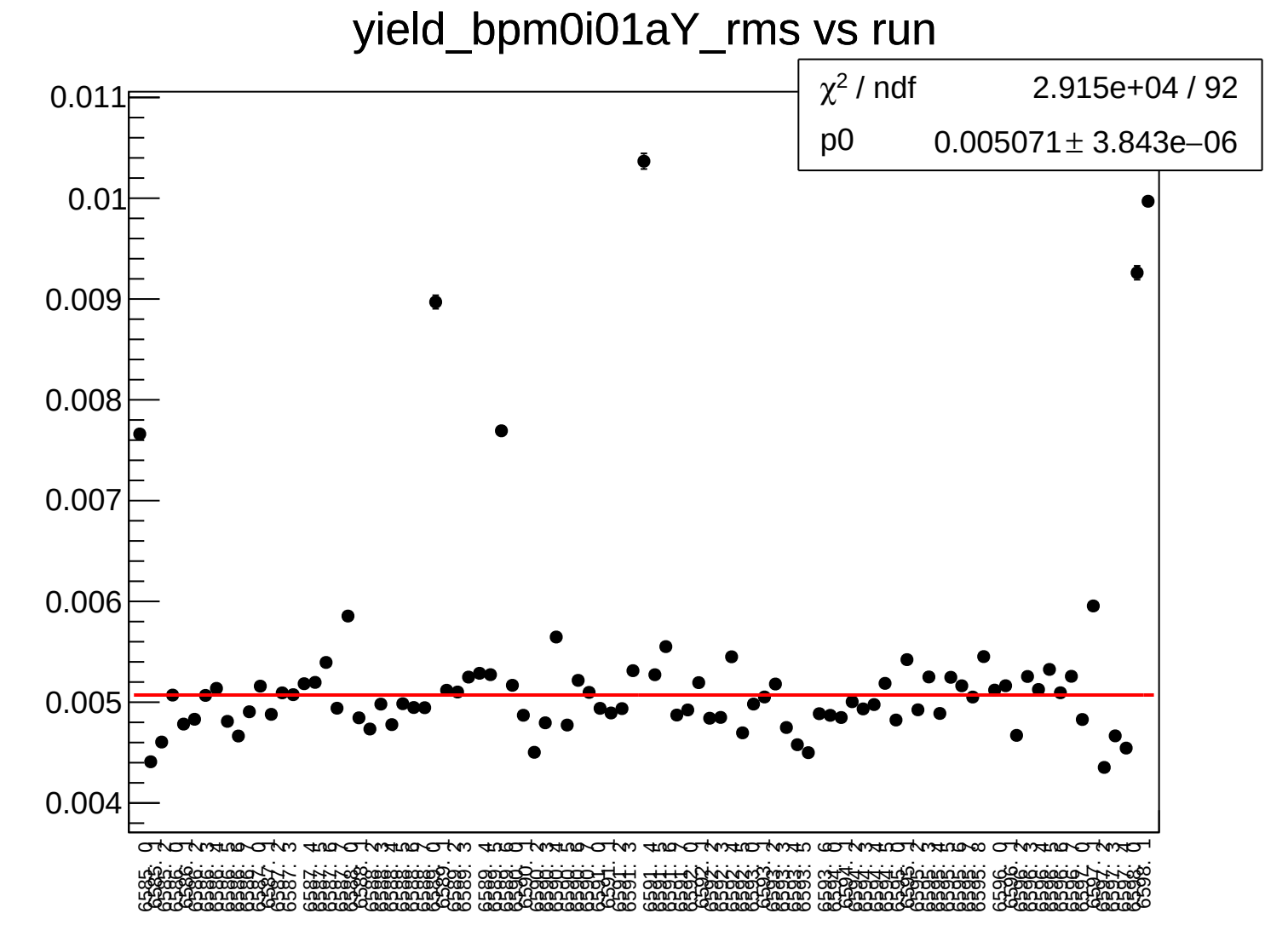

yield_bpm0i01aX_mean vs run
χ² / ndf 1.917e+07 / 92
p0 −1.345 ± 9.808e−06
−1.3
−1.32
−1.34
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
pull
Entries 93
Mean −818.1
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

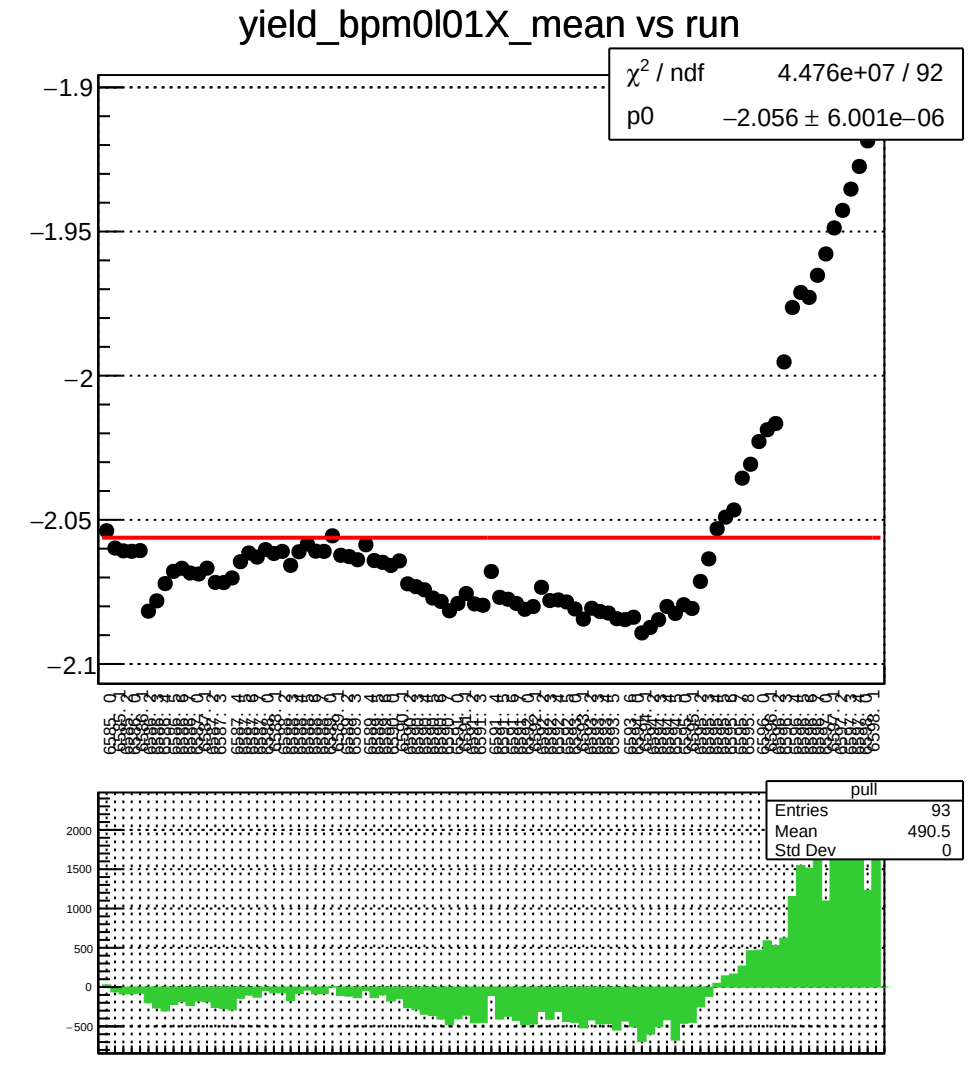

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

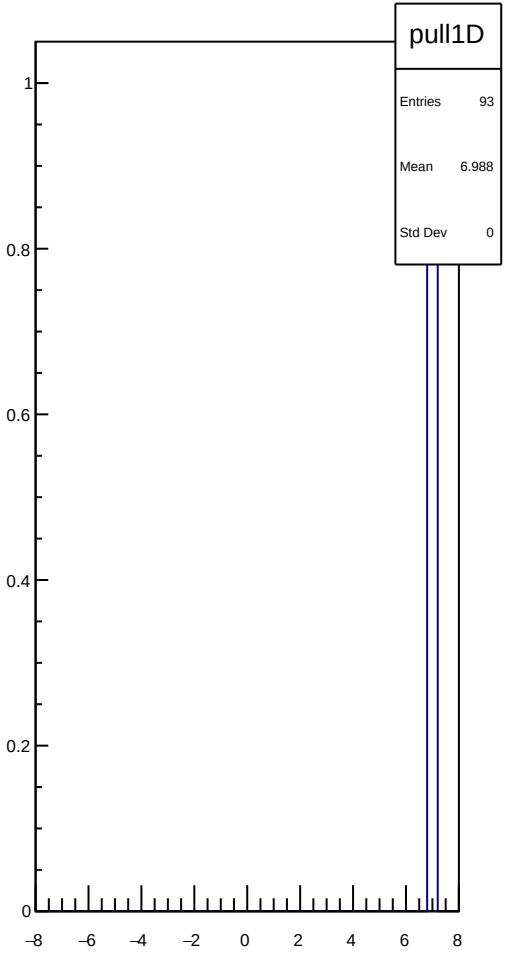

yield_bpm0i01aX_rms vs run
χ² / ndf 1.865e+04 / 92
p0 0.009179 ± 6.935e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

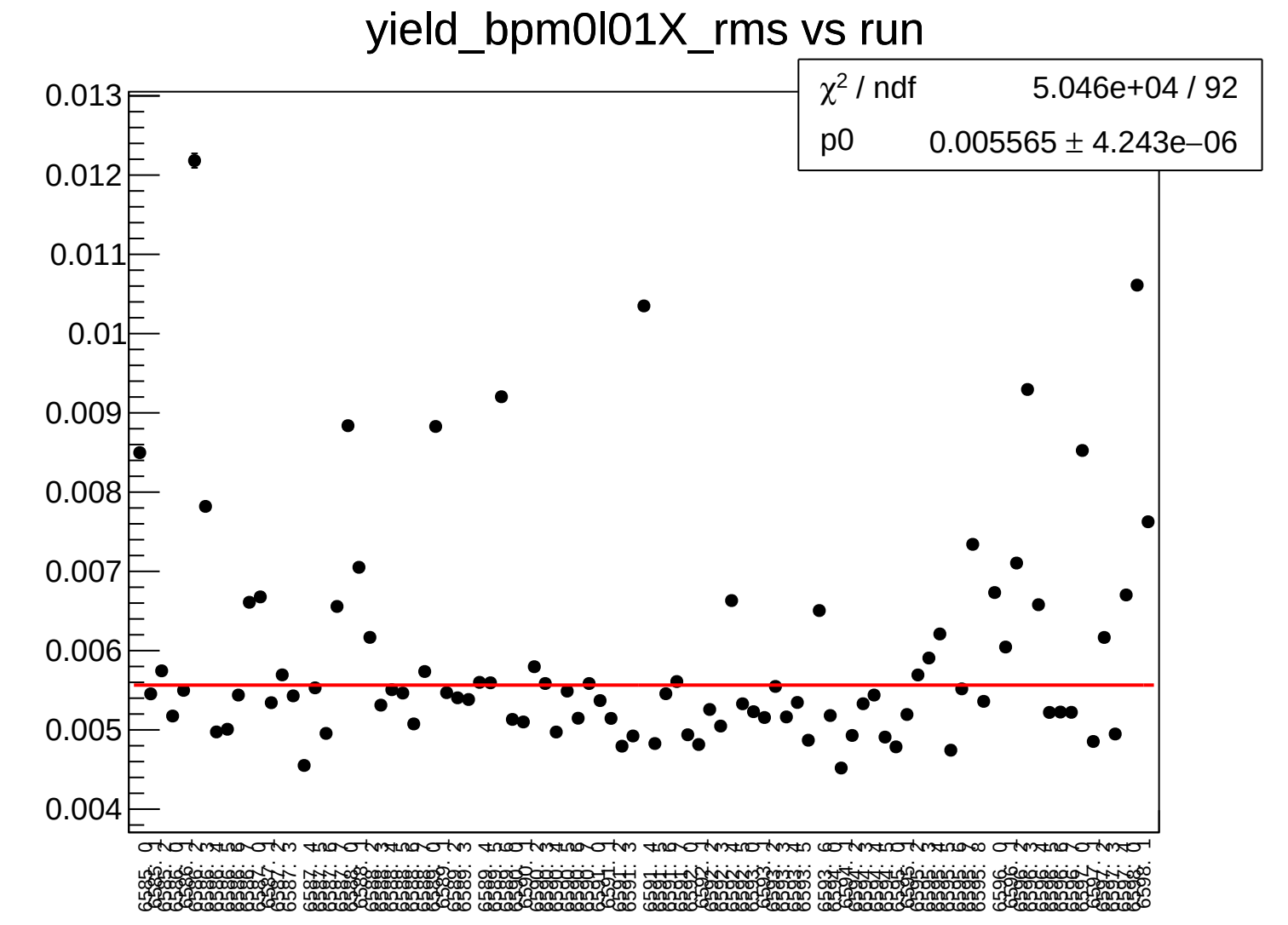

yield_bpm0i01aY_mean vs run
χ² / ndf 8.467e+06 / 92
p0 1.491± 5.435e−06
1.55
1.54
1.53
1.52
1.51
1.5
1.49
1.48
1.47
pull
Entries 93
Mean 2.837e+04
Std Dev 0
1000
800
600
400
200
0
−200
−400

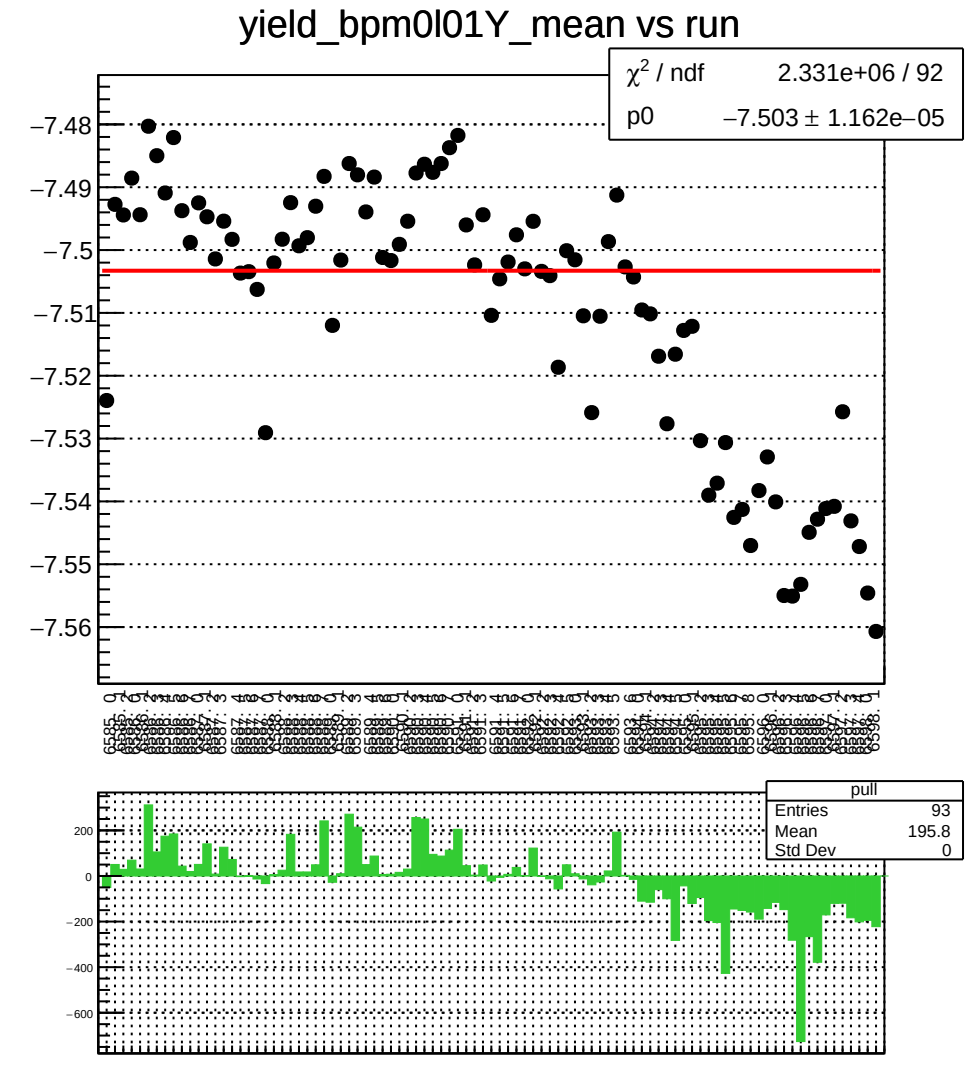

pull1D
Entries 93
Mean 1.725
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

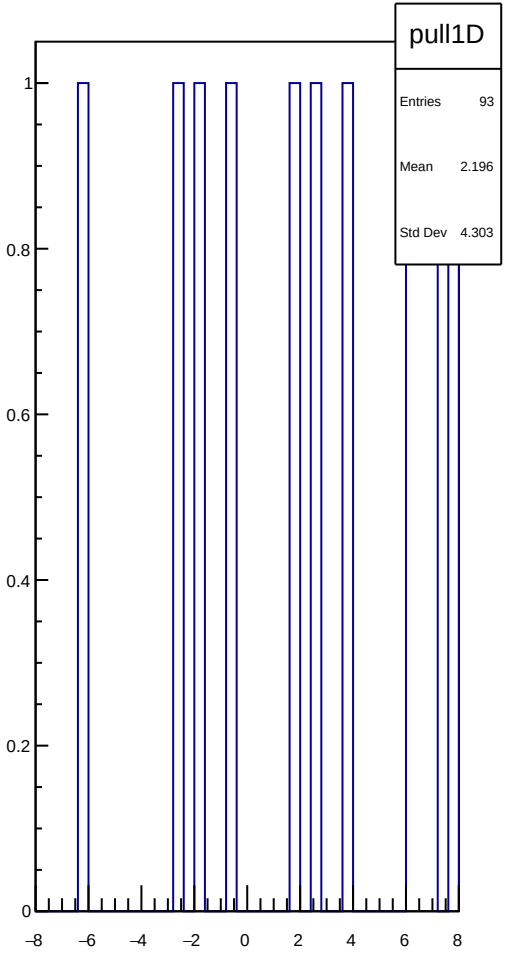

yield_bpm0i01aY_rms vs run
χ² / ndf 2.915e+04 / 92
p0 0.005071 ± 3.843e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

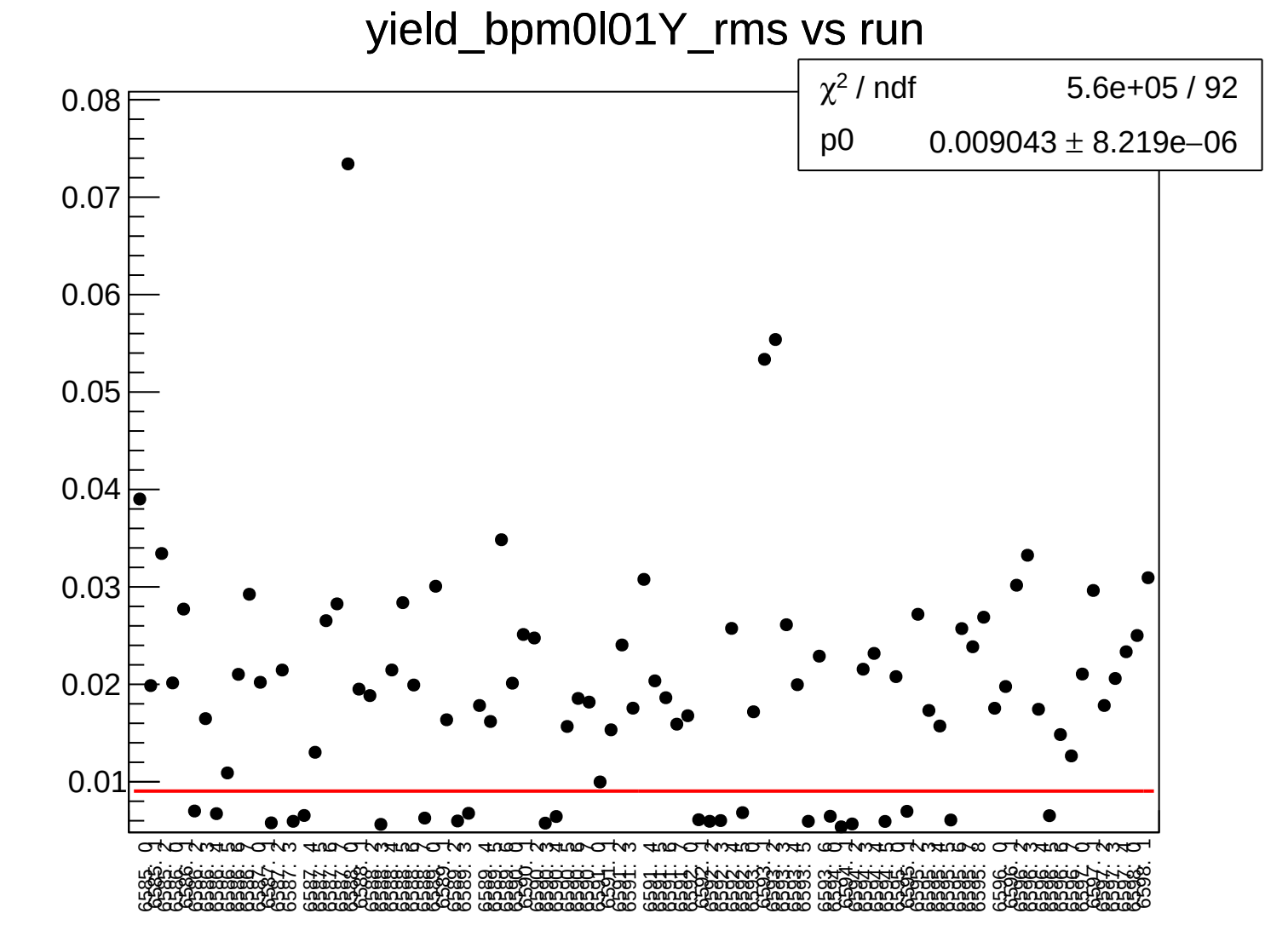

yield_bpm0l01X_mean vs run
χ² / ndf 4.476e+07 / 92
p0 −2.056 ± 6.001e−06
−1.9
−1.95
−2
−2.05
−2.1
pull
Entries 93
Mean 490.5
Std Dev 0
2000
1500
1000
500
0
−500

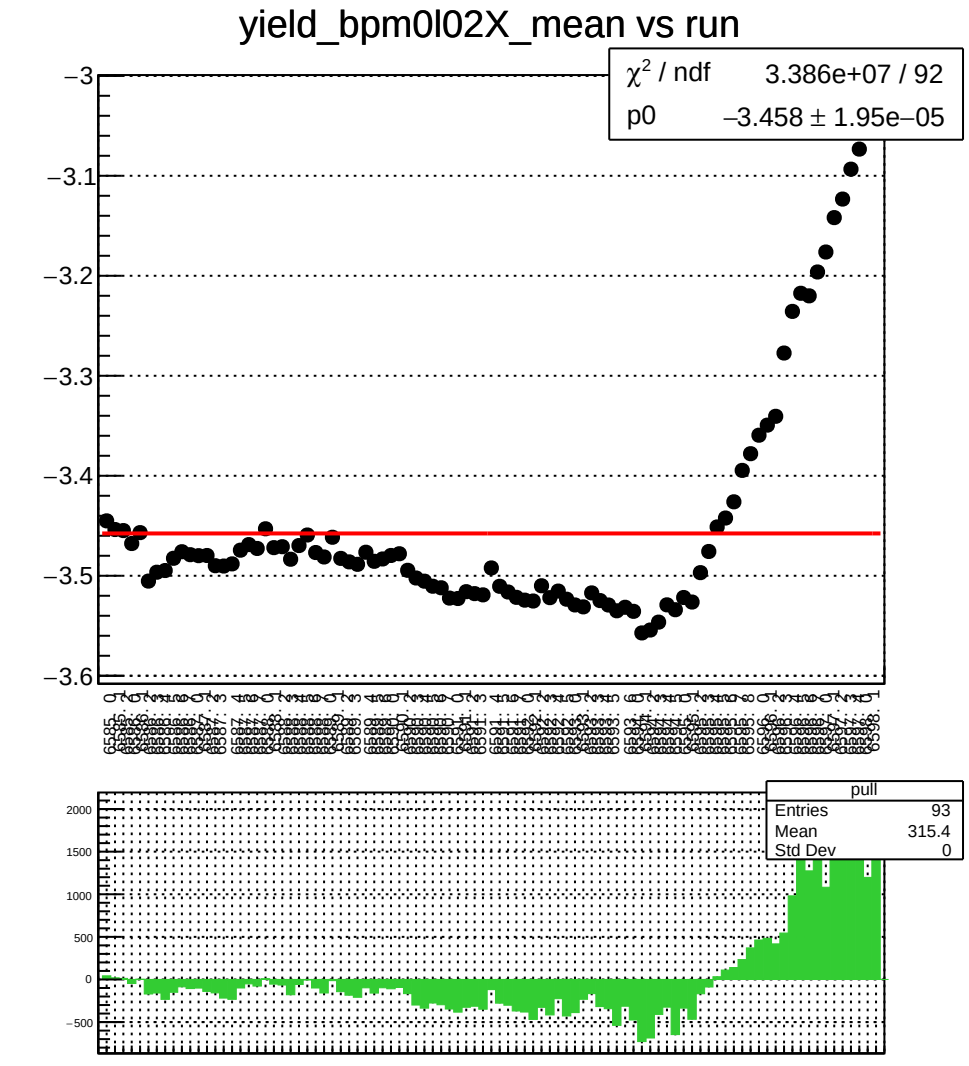

pull1D
Entries 93
Mean 6.988
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

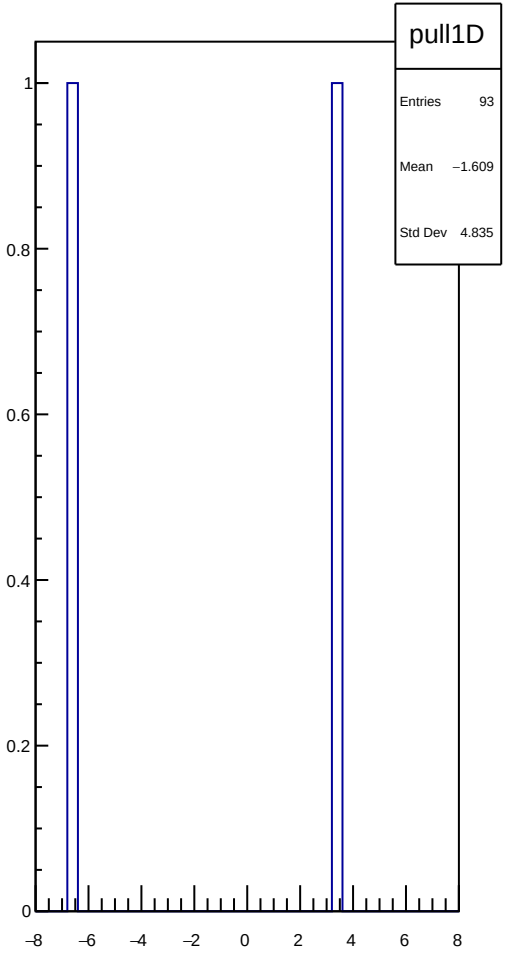

yield_bpm0l01X_rms vs run
χ² / ndf 5.046e+04 / 92
p0 0.005565 ± 4.243e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

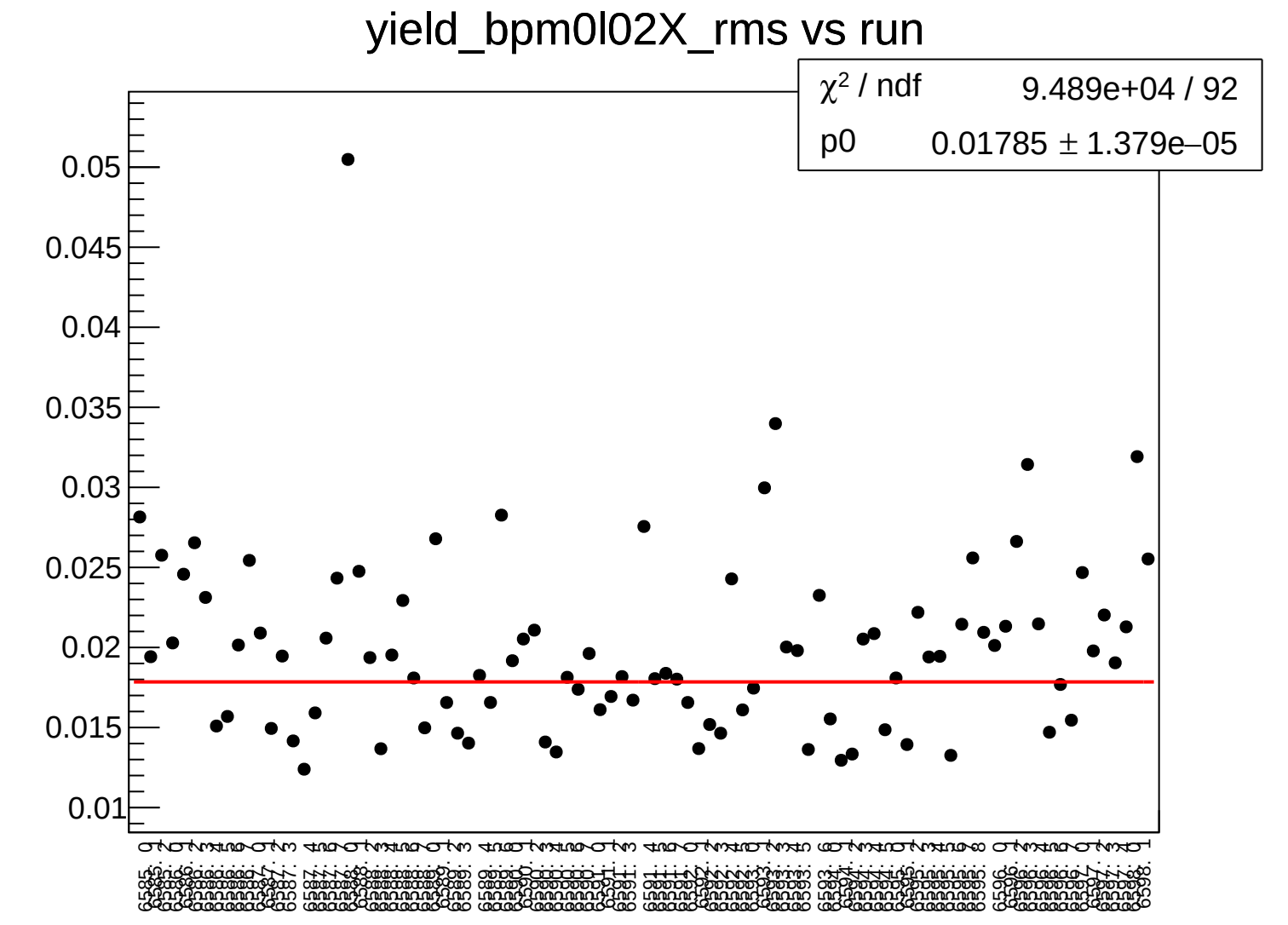

yield_bpm0l01Y_mean vs run
χ² / ndf 2.331e+06 / 92
p0 −7.503 ± 1.162e−05
−7.48
−7.49
−7.5
−7.51
−7.52
−7.53
−7.54
−7.55
−7.56
pull
Entries 93
Mean 195.8
Std Dev 0
200
0
−200
−400
−600

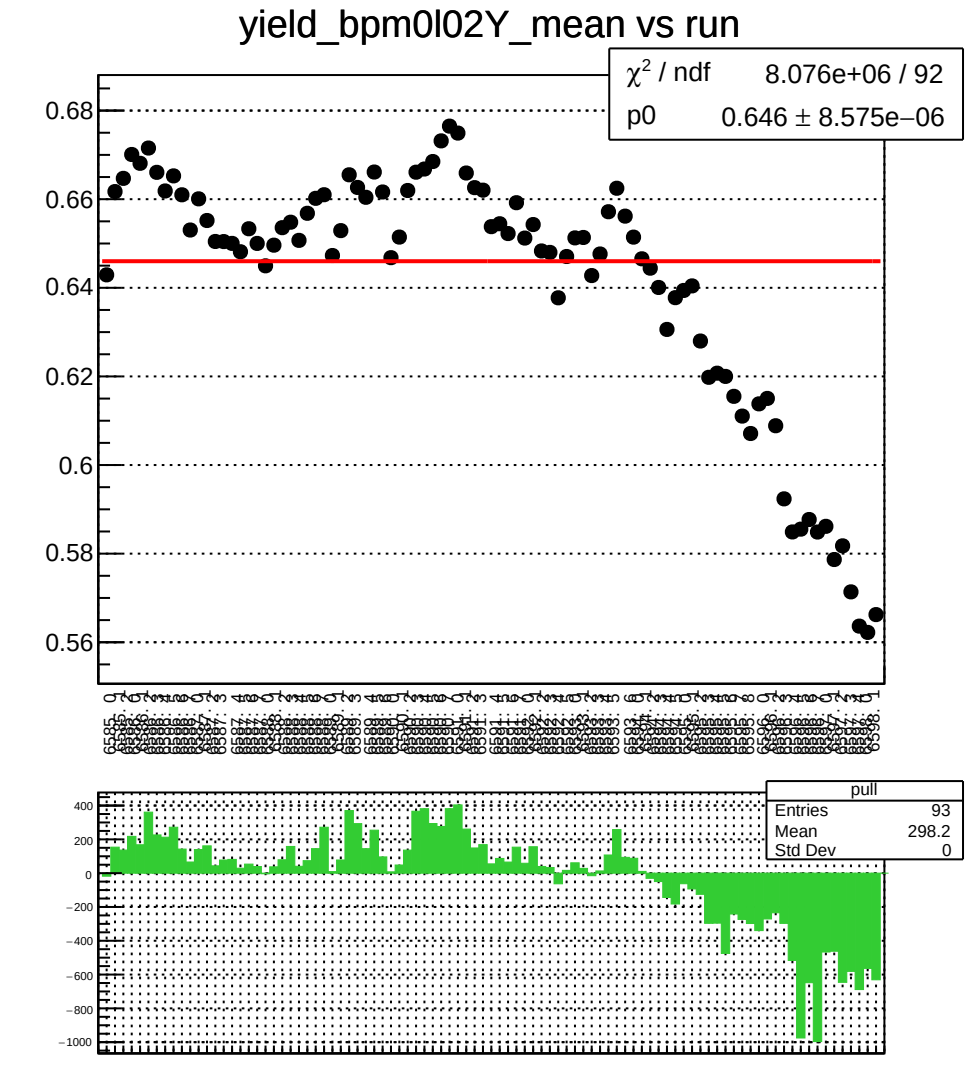

pull1D
Entries 93
Mean 2.196
Std Dev 4.303
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

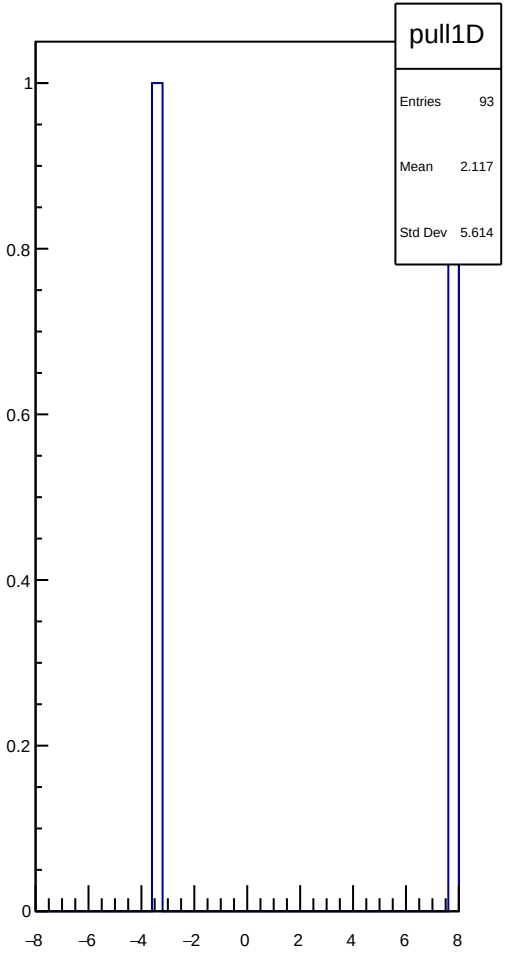

yield_bpm0l01Y_rms vs run
χ^2 / ndf 5.6e+05 / 92
p0 0.009043 ± 8.219e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

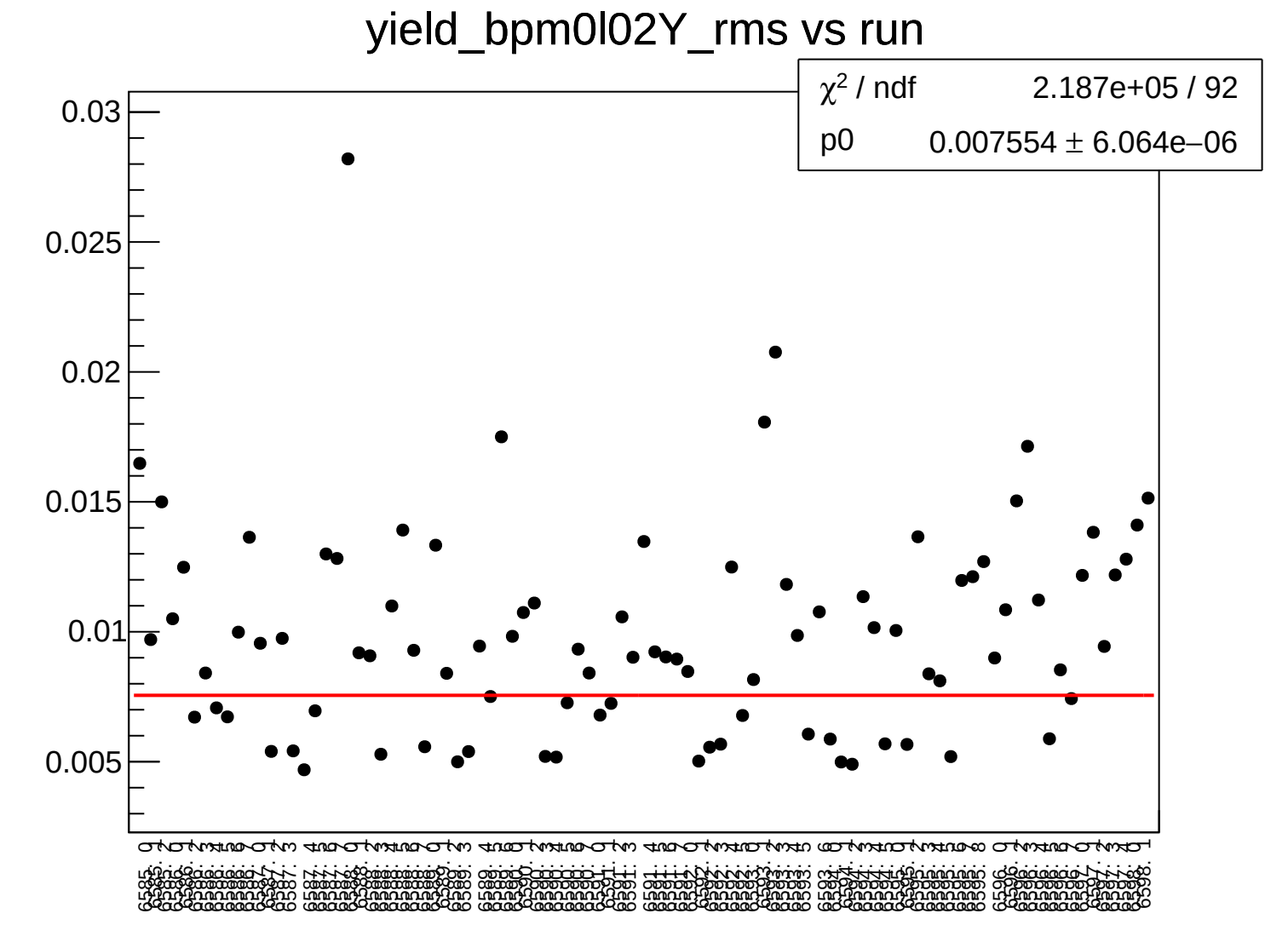

yield_bpm0l02X_mean vs run
χ² / ndf 3.386e+07 / 92
p0 −3.458 ± 1.95e−05
−3
−3.1
−3.2
−3.3
−3.4
−3.5
−3.6
pull
Entries 93
Mean 315.4
Std Dev 0
2000
1500
1000
500
0
−500

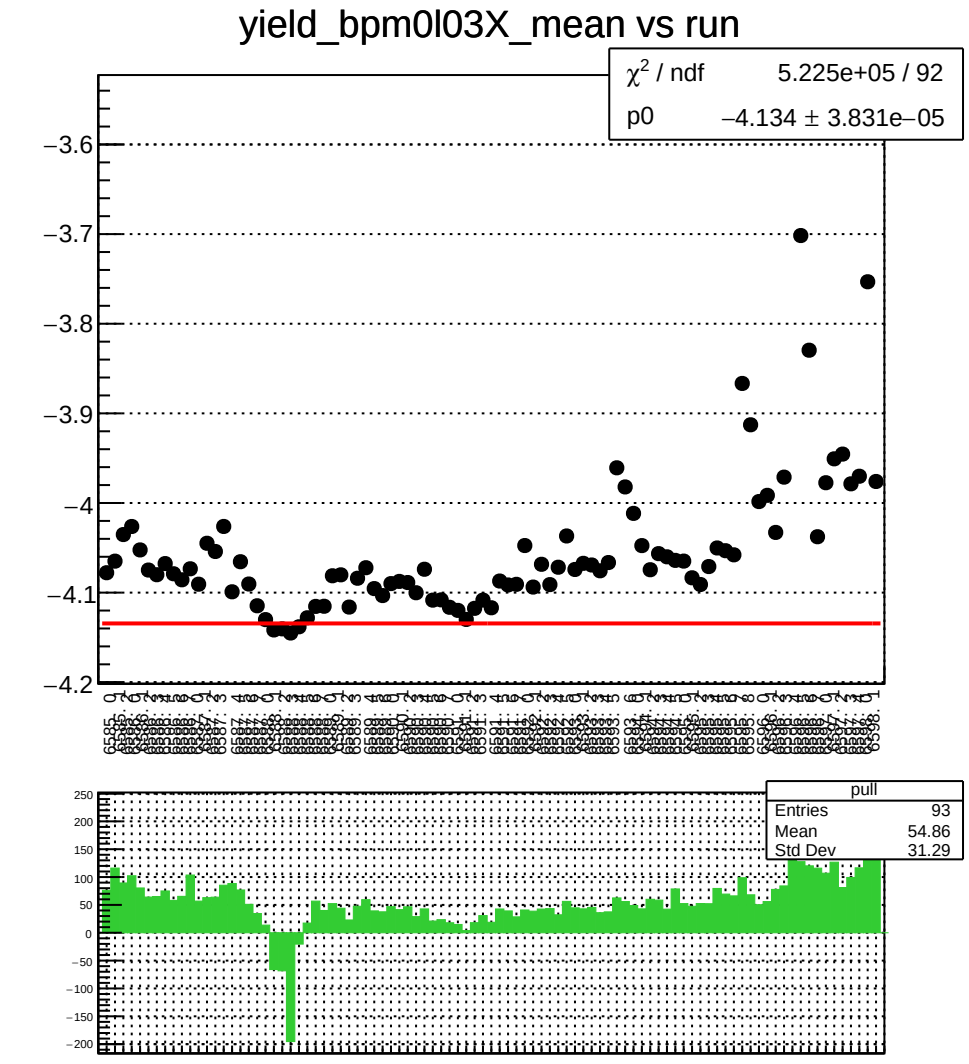

pull1D
Entries 93
Mean −1.609
Std Dev 4.835
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

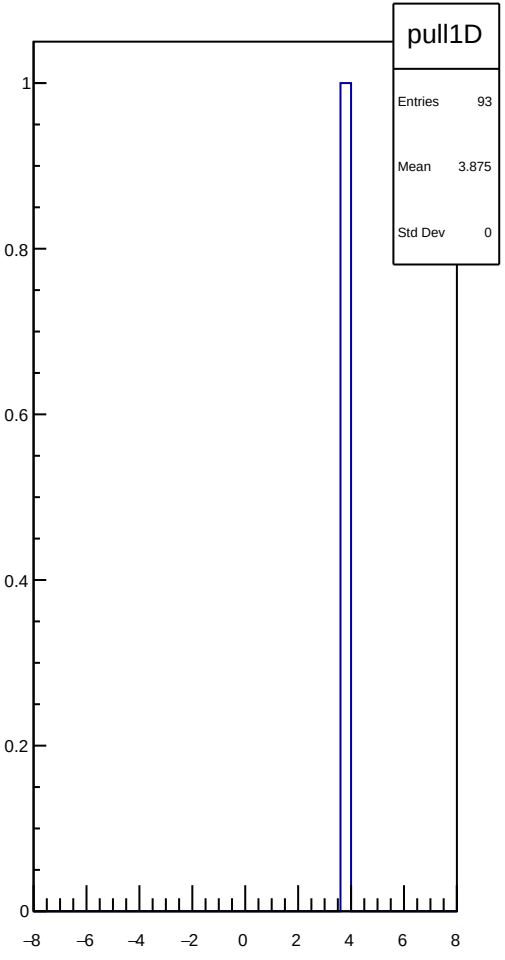

yield_bpm0l02X_rms vs run
χ² / ndf 9.489e+04 / 92
p0 0.01785 ± 1.379e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

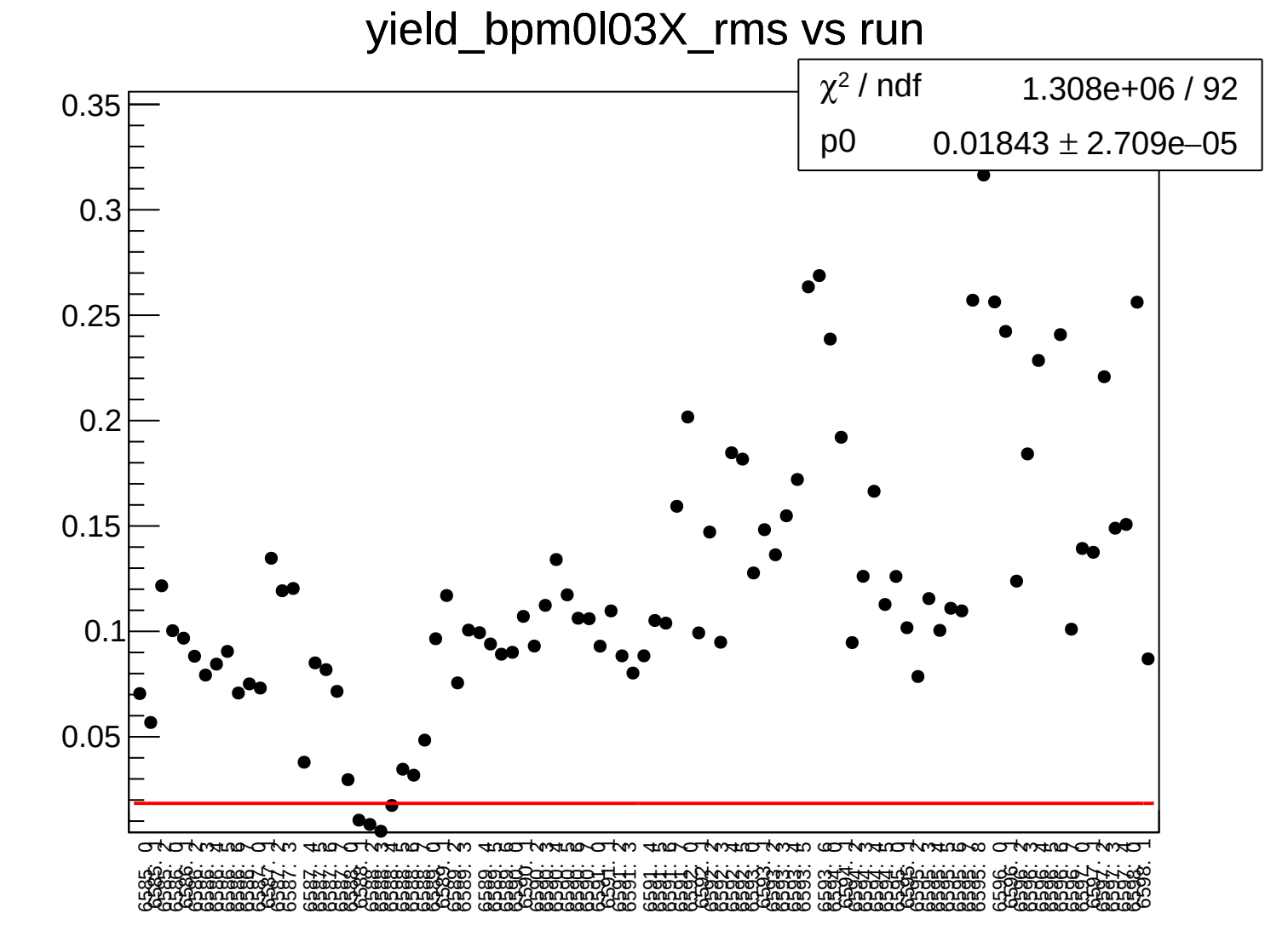

yield_bpm0l02Y_mean vs run
χ² / ndf 8.076e+06 / 92
p0 0.646 ± 8.575e−06
0.68
0.66
0.64
0.62
0.6
0.58
0.56
pull
Entries 93
Mean 298.2
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

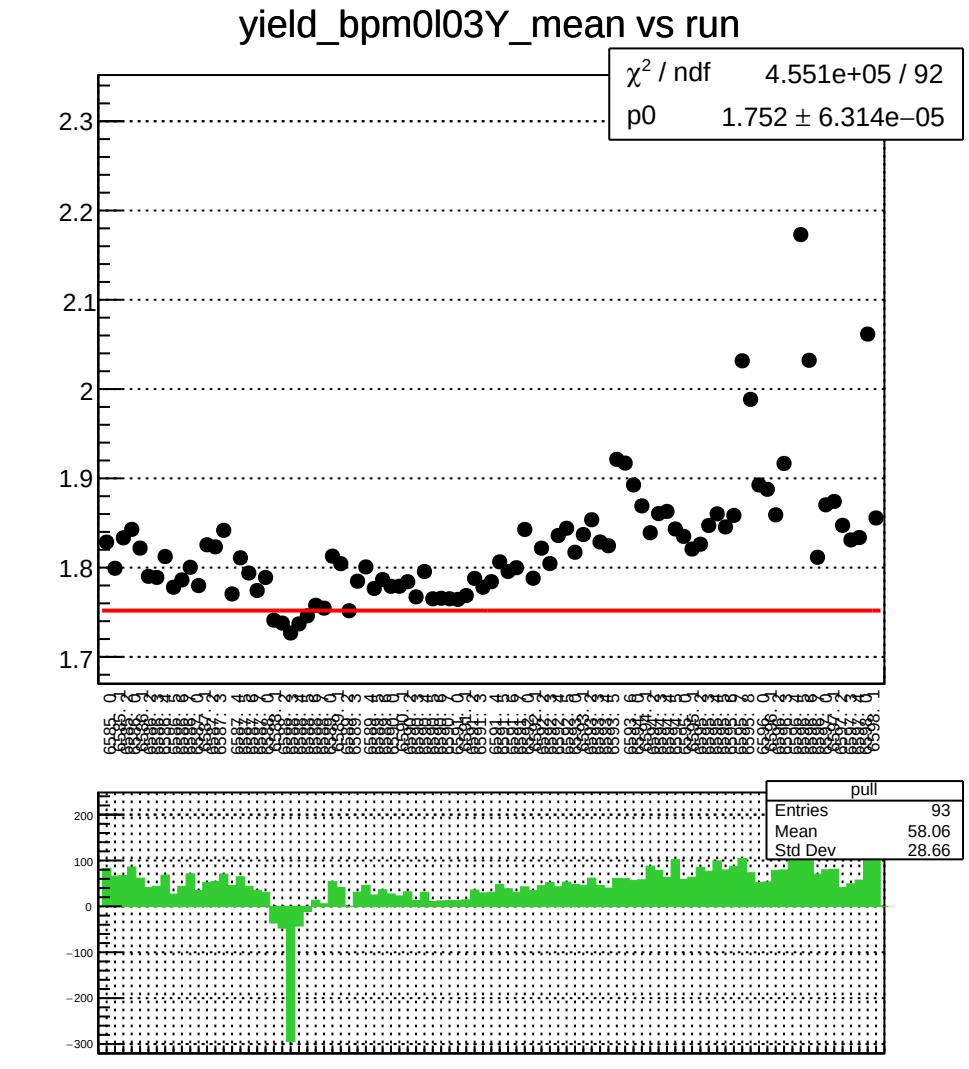

pull1D
Entries 93
Mean 2.117
Std Dev 5.614
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

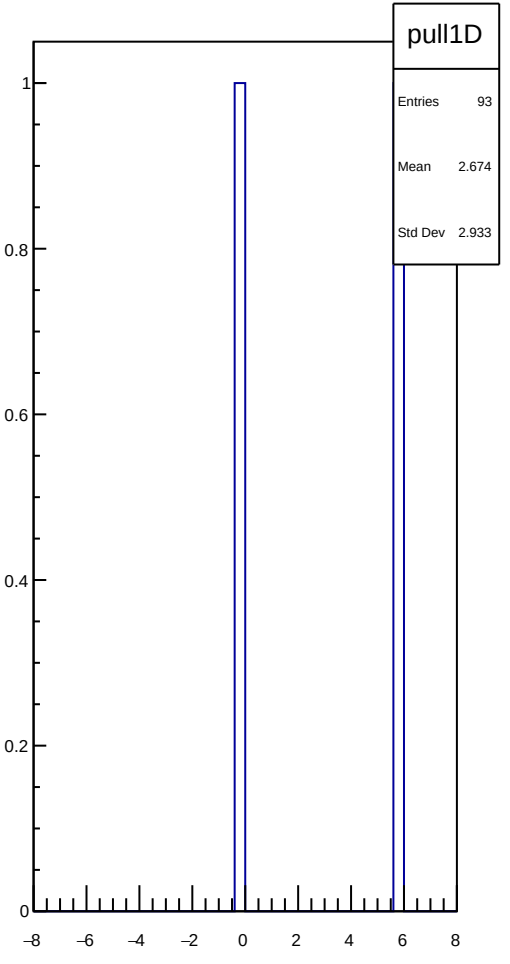

yield_bpm0l02Y_rms vs run
χ² / ndf 2.187e+05 / 92
p0 0.007554 ± 6.064e−06
0.03
0.025
0.02
0.015
0.01
0.005

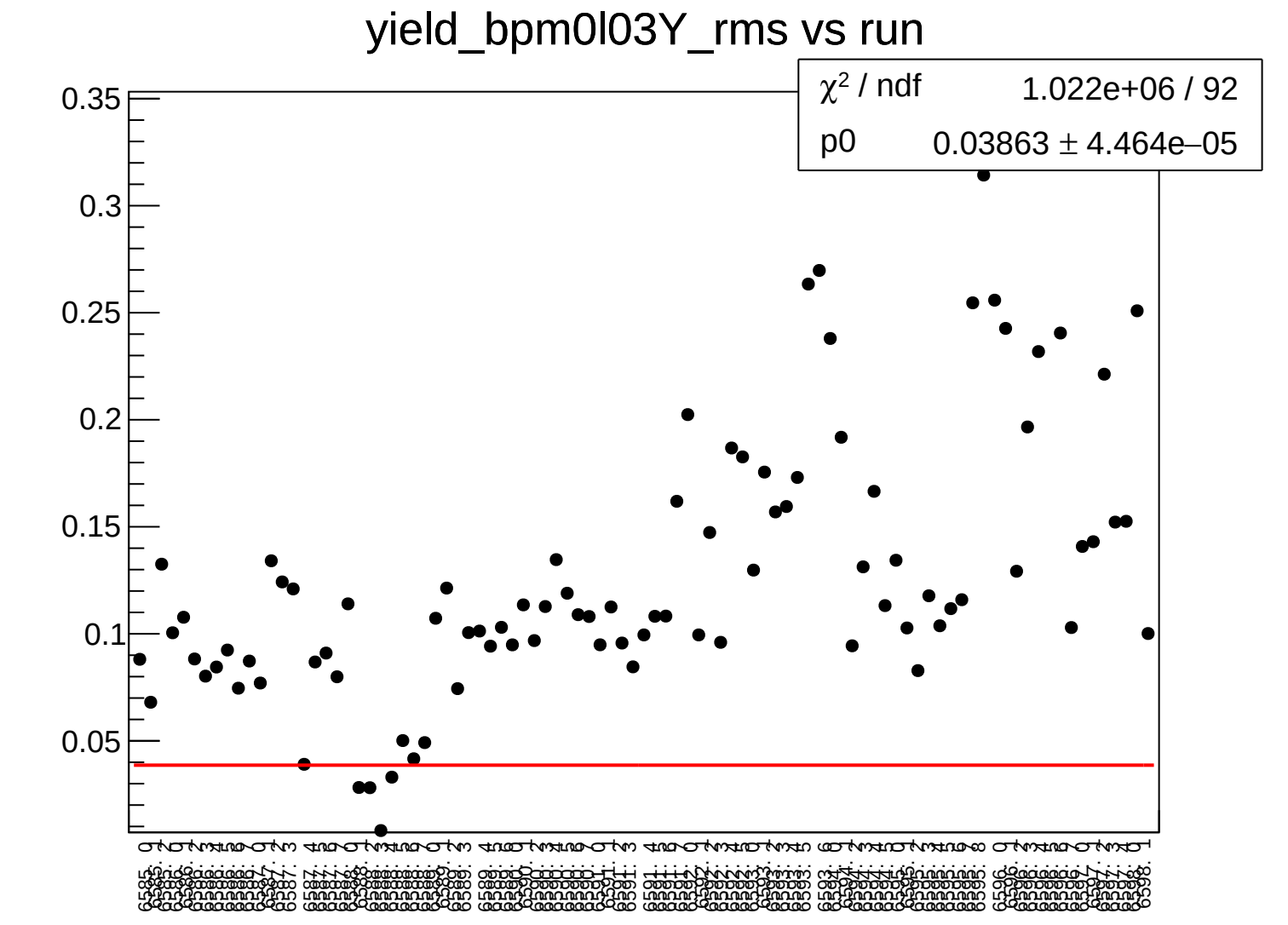

yield_bpm0l03X_mean vs run
χ² / ndf 5.225e+05 / 92
p0 −4.134 ± 3.831e−05
−3.6
−3.7
−3.8
−3.9
−4
−4.1
−4.2
pull
Entries 93
Mean 54.86
Std Dev 31.29
250
200
150
100
50
0
−50
−100
−150
−200

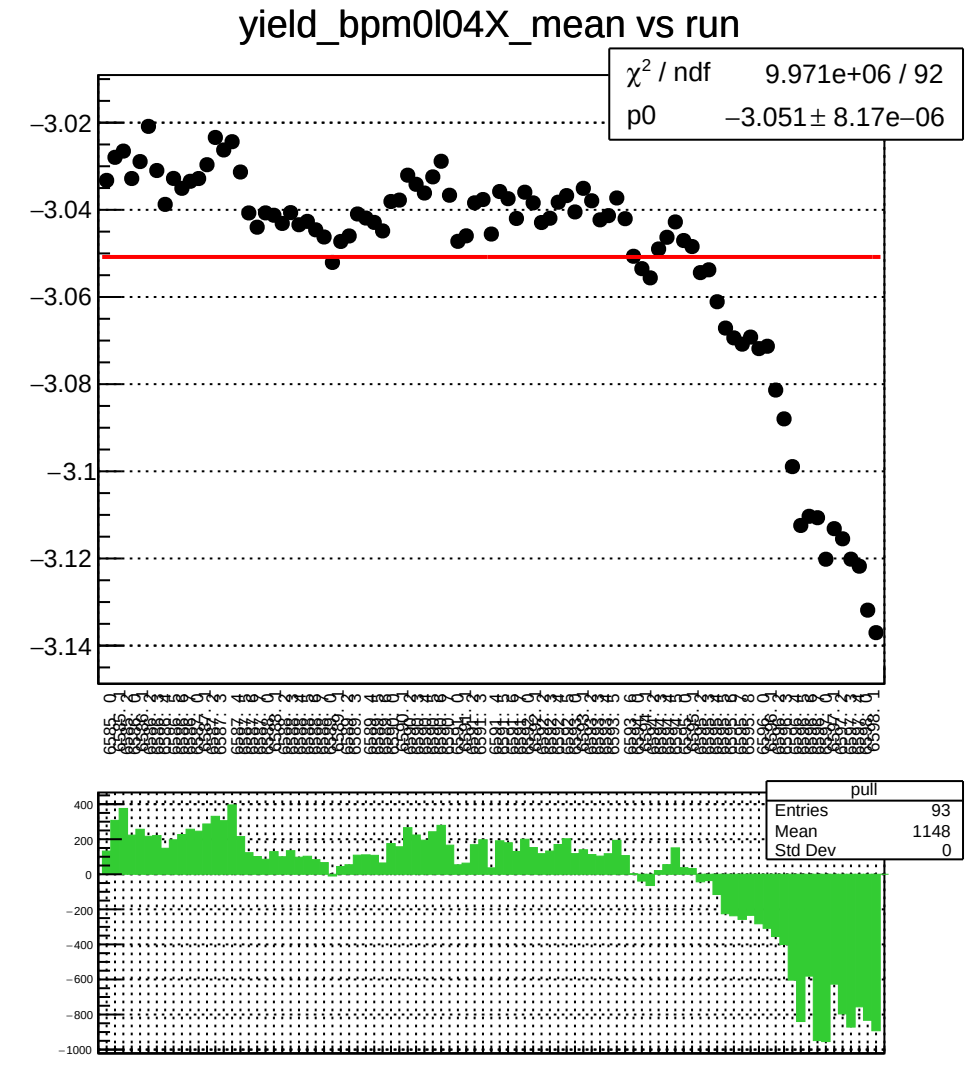

pull1D
Entries 93
Mean 3.875
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

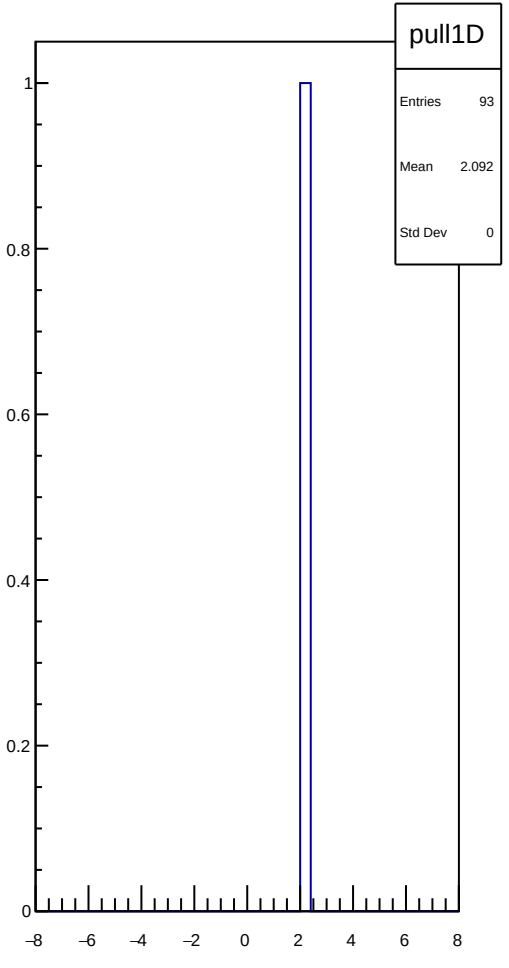

yield_bpm0l03X_rms vs run
χ² / ndf 1.308e+06 / 92
p0 0.01843 ± 2.709e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

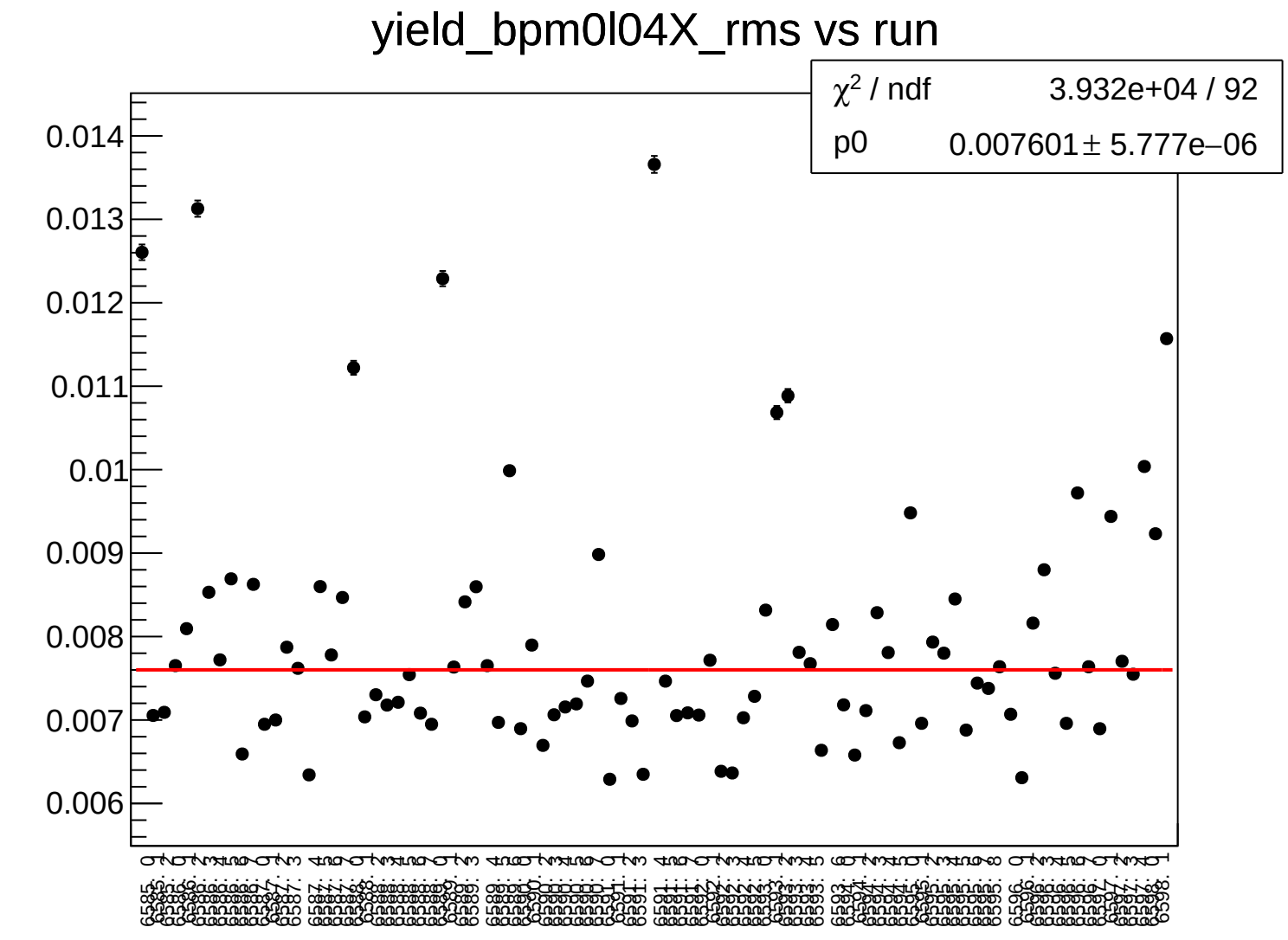

yield_bpm0l03Y_mean vs run
χ² / ndf 4.551e+05 / 92
p0 1.752 ± 6.314e−05
2.3
2.2
2.1
2
1.9
1.8
1.7
pull
Entries 93
Mean 58.06
Std Dev 28.66
200
100
0
−100
−200
−300

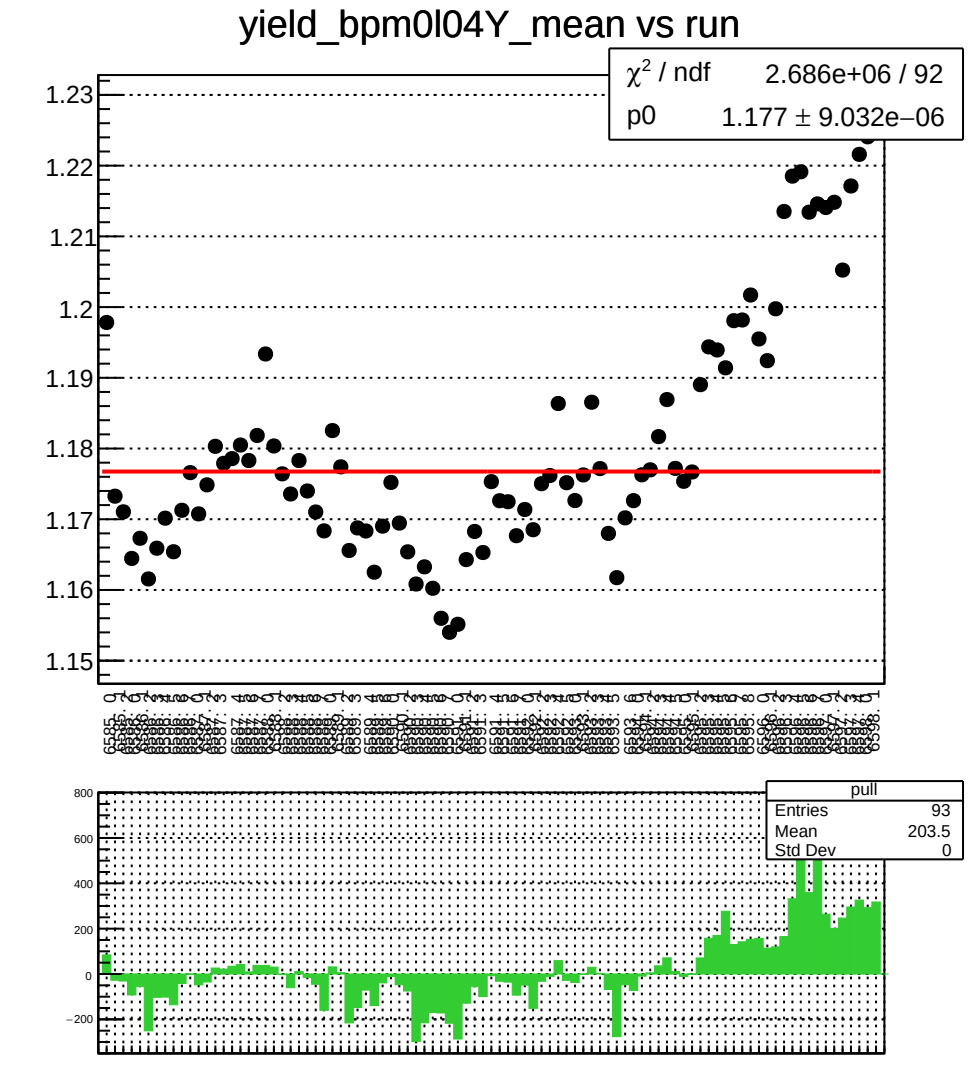

pull1D
Entries 93
Mean 2.674
Std Dev 2.933
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

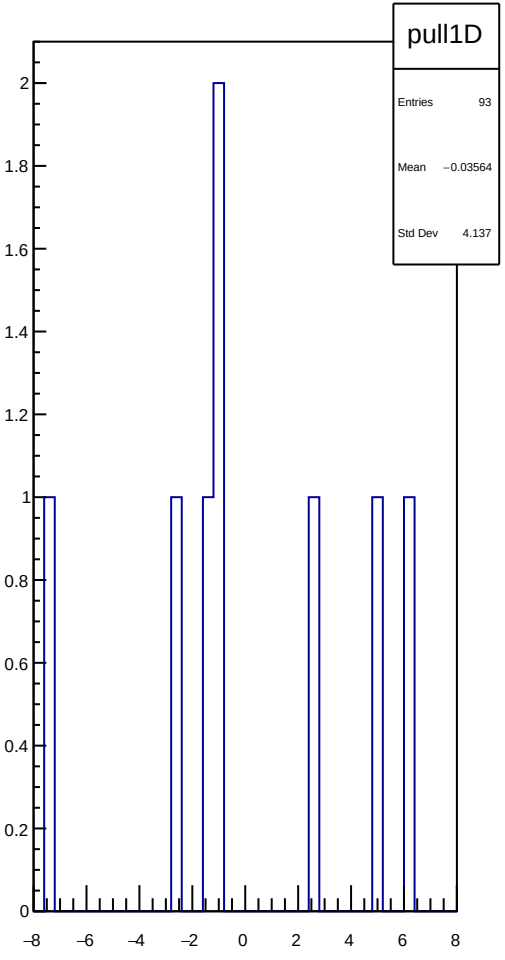

yield_bpm0l03Y_rms vs run
χ² / ndf 1.022e+06 / 92
p0 0.03863 ± 4.464e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

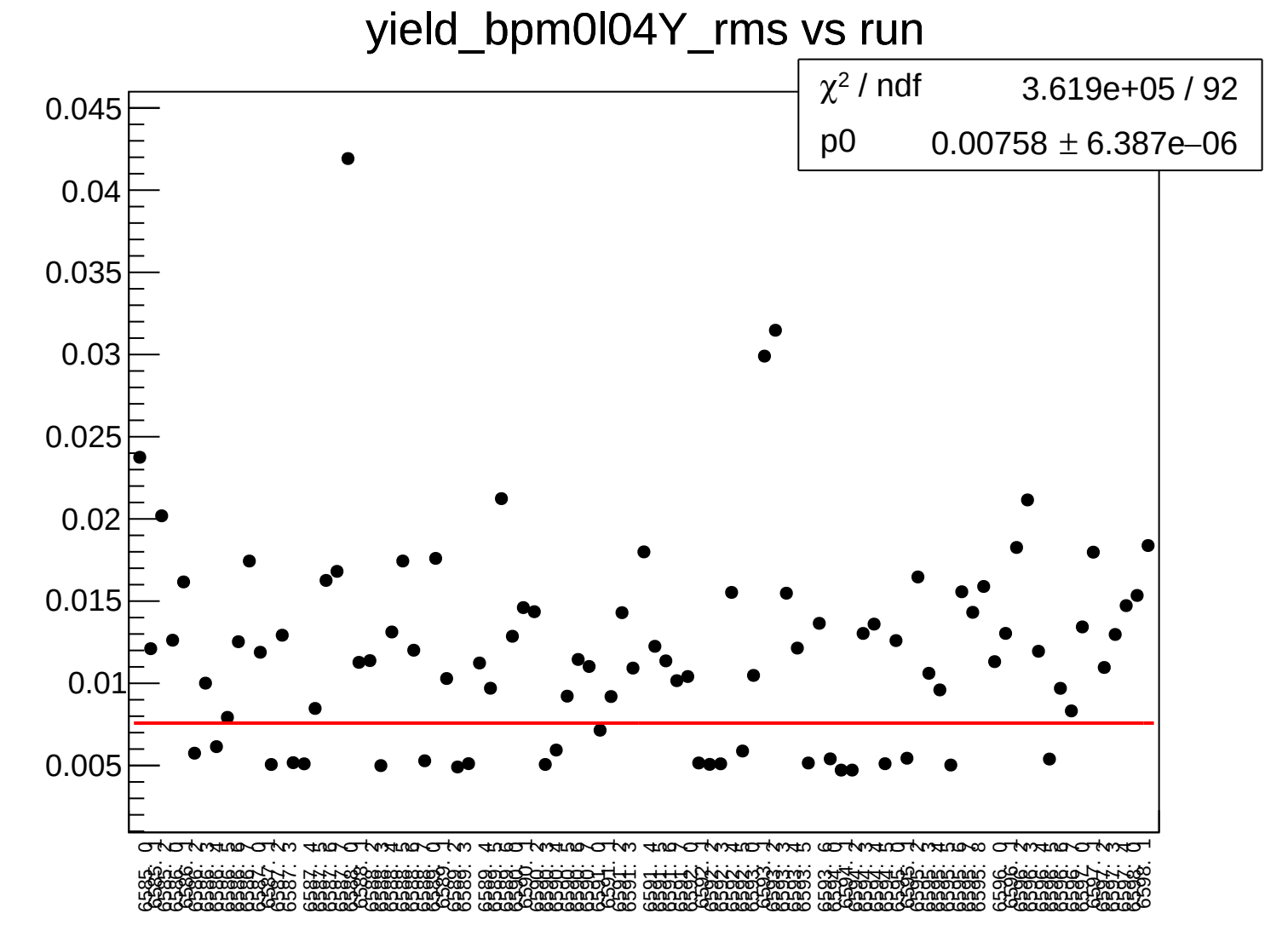

yield_bpm0l04X_mean vs run
χ² / ndf 9.971e+06 / 92
p0 −3.051 ± 8.17e−06
−3.02
−3.04
−3.06
−3.08
−3.1
−3.12
−3.14
pull
Entries 93
Mean 1148
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

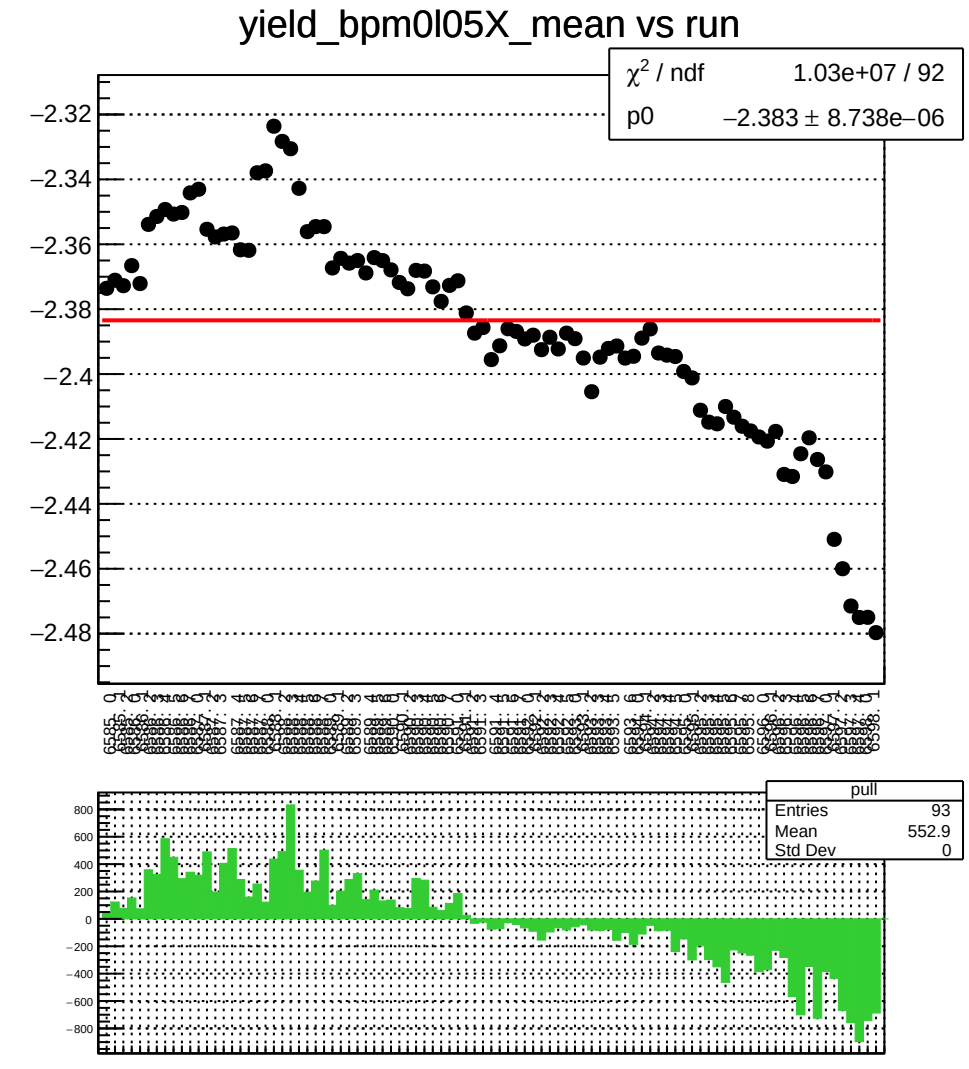

pull1D
Entries 93
Mean 2.092
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

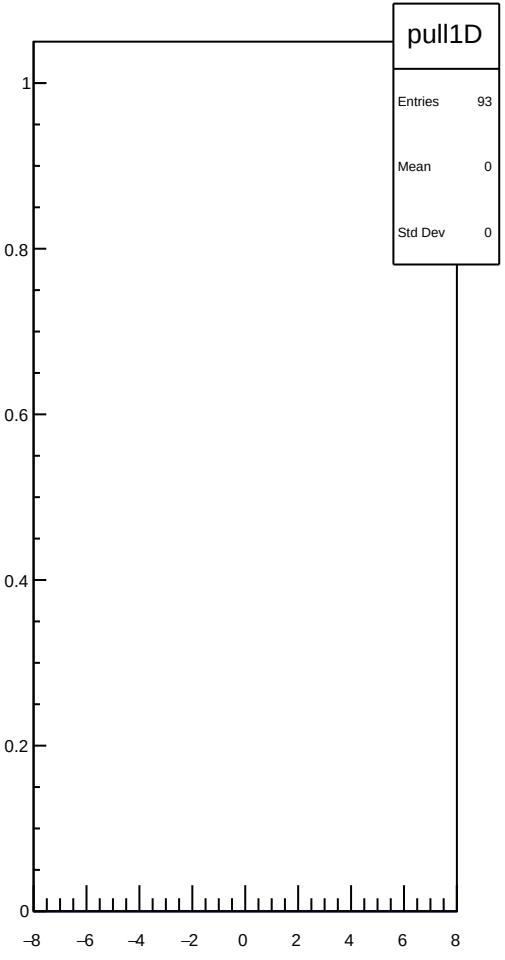

yield_bpm0l04X_rms vs run
χ² / ndf 3.932e+04 / 92
p0 0.007601 ± 5.777e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

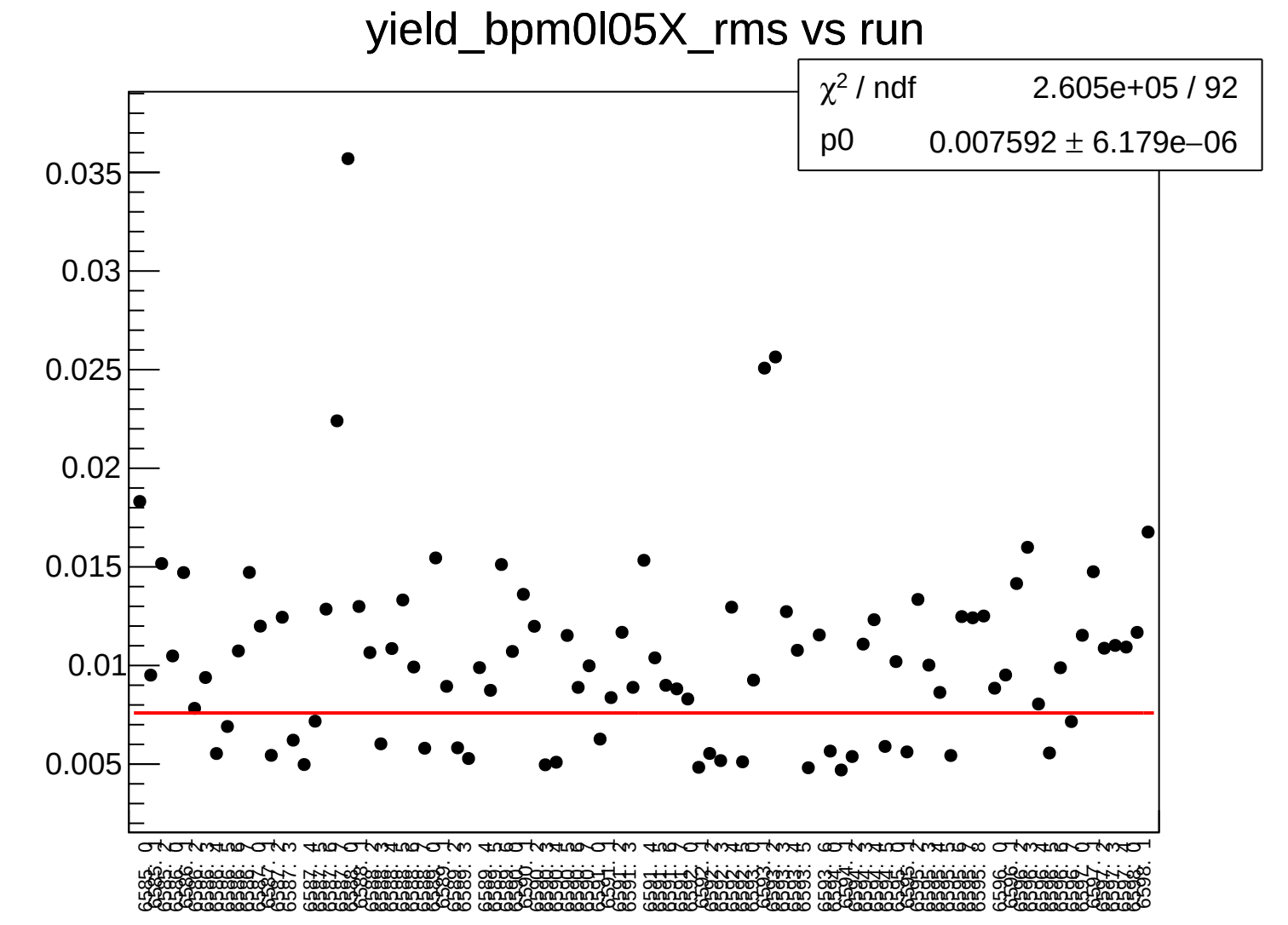

yield_bpm0l04Y_mean vs run
χ² / ndf 2.686e+06 / 92
p0 1.177 ± 9.032e−06
pull
Entries 93
Mean 203.5
Std Dev 0

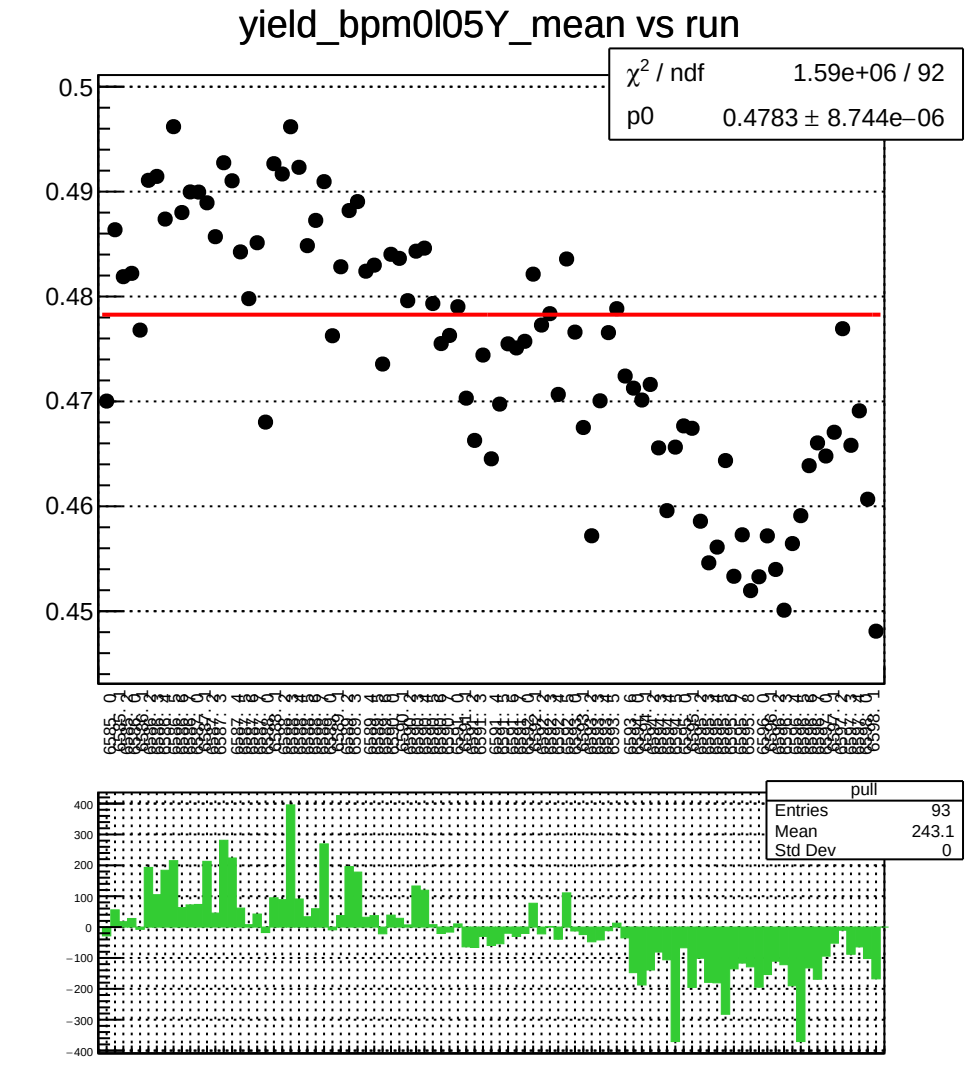

pull1D
Entries 93
Mean −0.03564
Std Dev 4.137

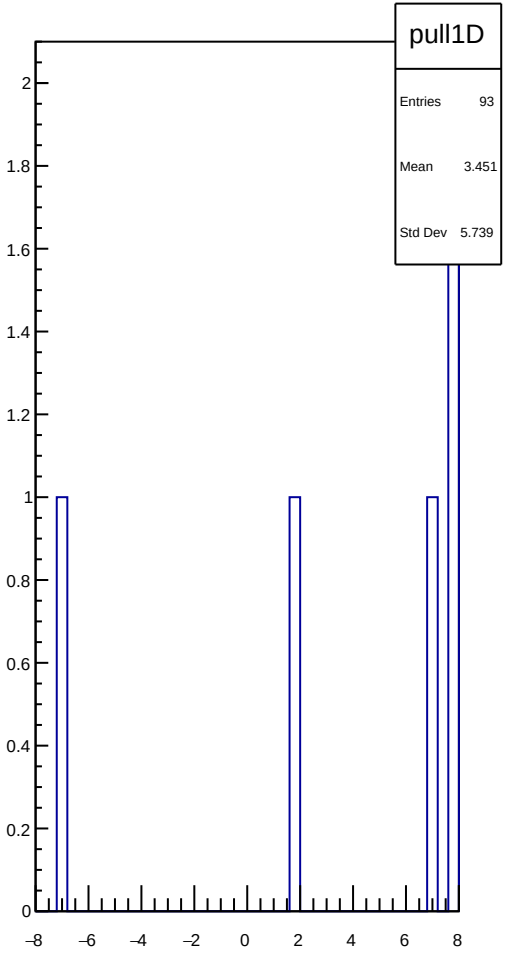

yield_bpm0l04Y_rms vs run
χ² / ndf 3.619e+05 / 92
p0 0.00758 ± 6.387e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

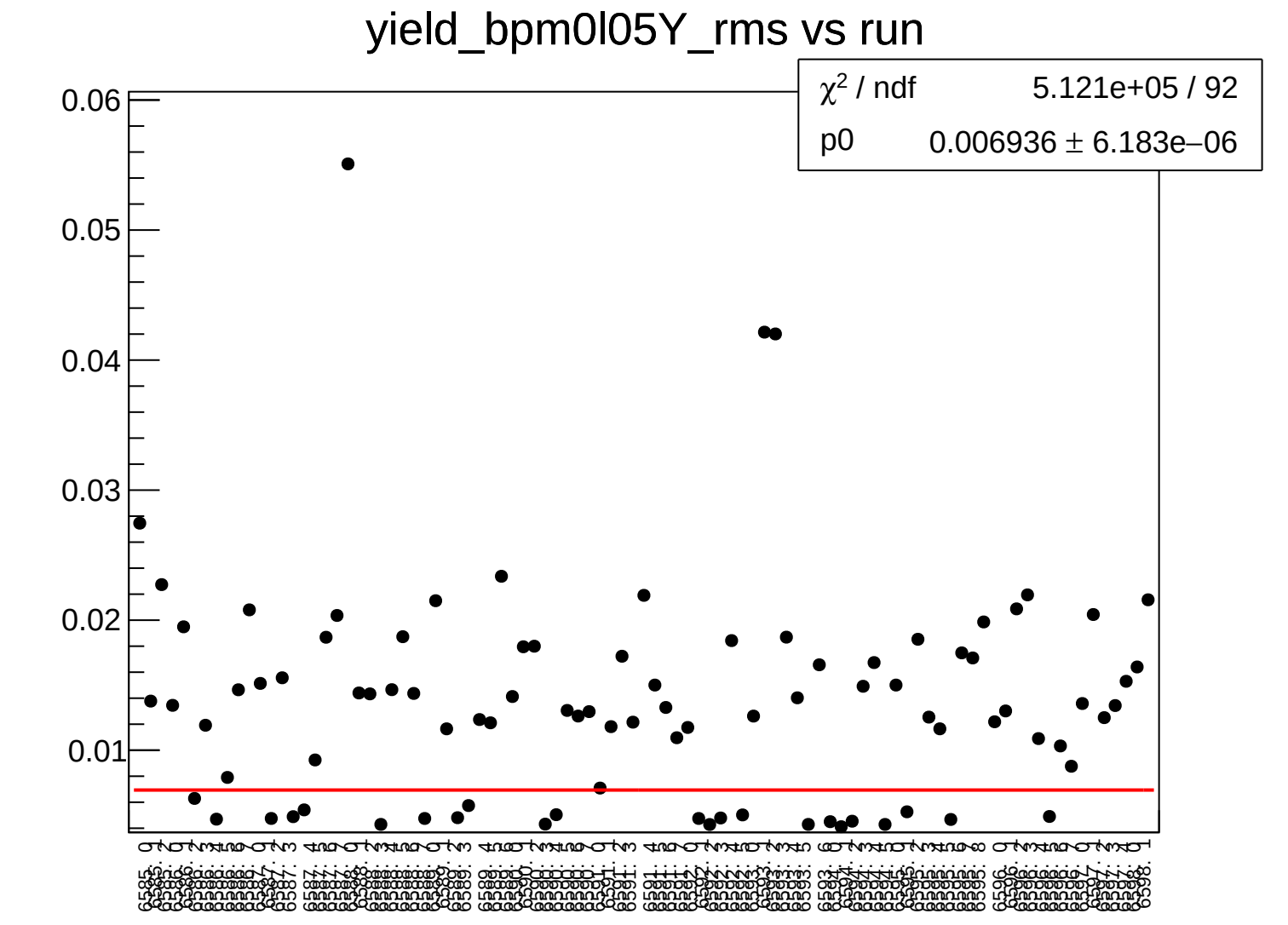

yield_bpm0l05X_mean vs run
χ² / ndf 1.03e+07 / 92
p0 −2.383 ± 8.738e−06
−2.32
−2.34
−2.36
−2.38
−2.4
−2.42
−2.44
−2.46
−2.48
pull
Entries 93
Mean 552.9
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

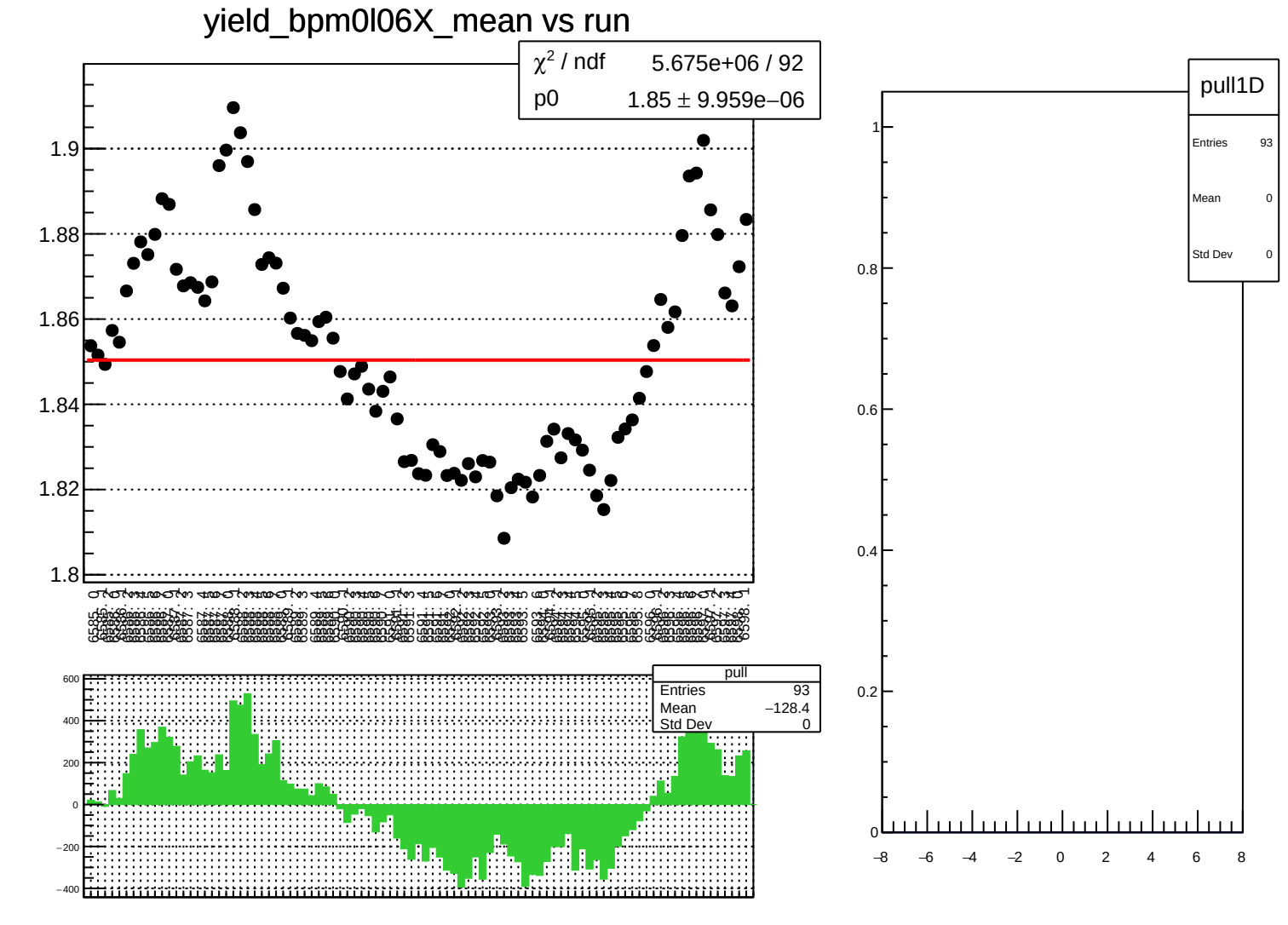

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

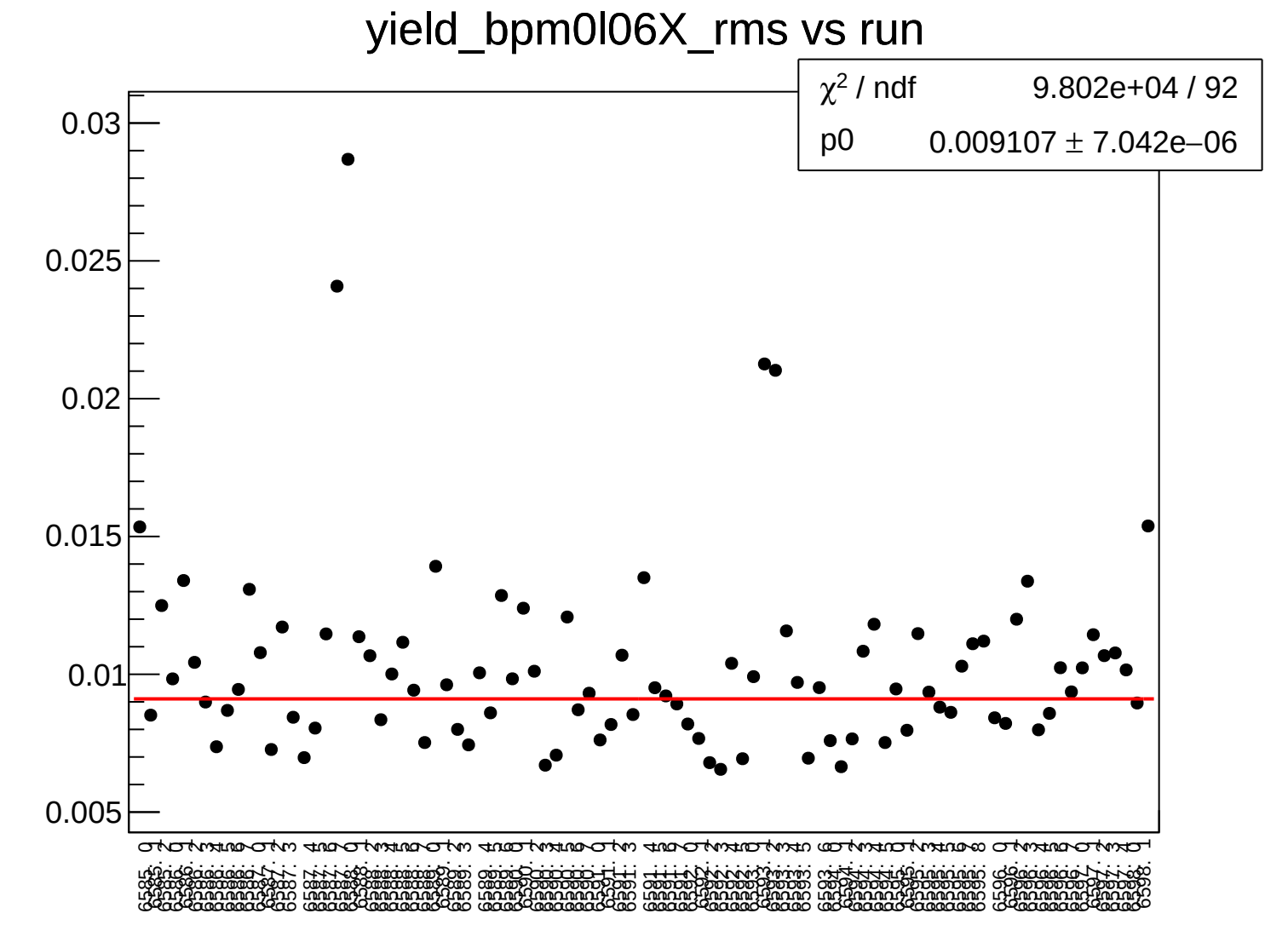

yield_bpm0l05X_rms vs run
χ² / ndf 2.605e+05 / 92
p0 0.007592 ± 6.179e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

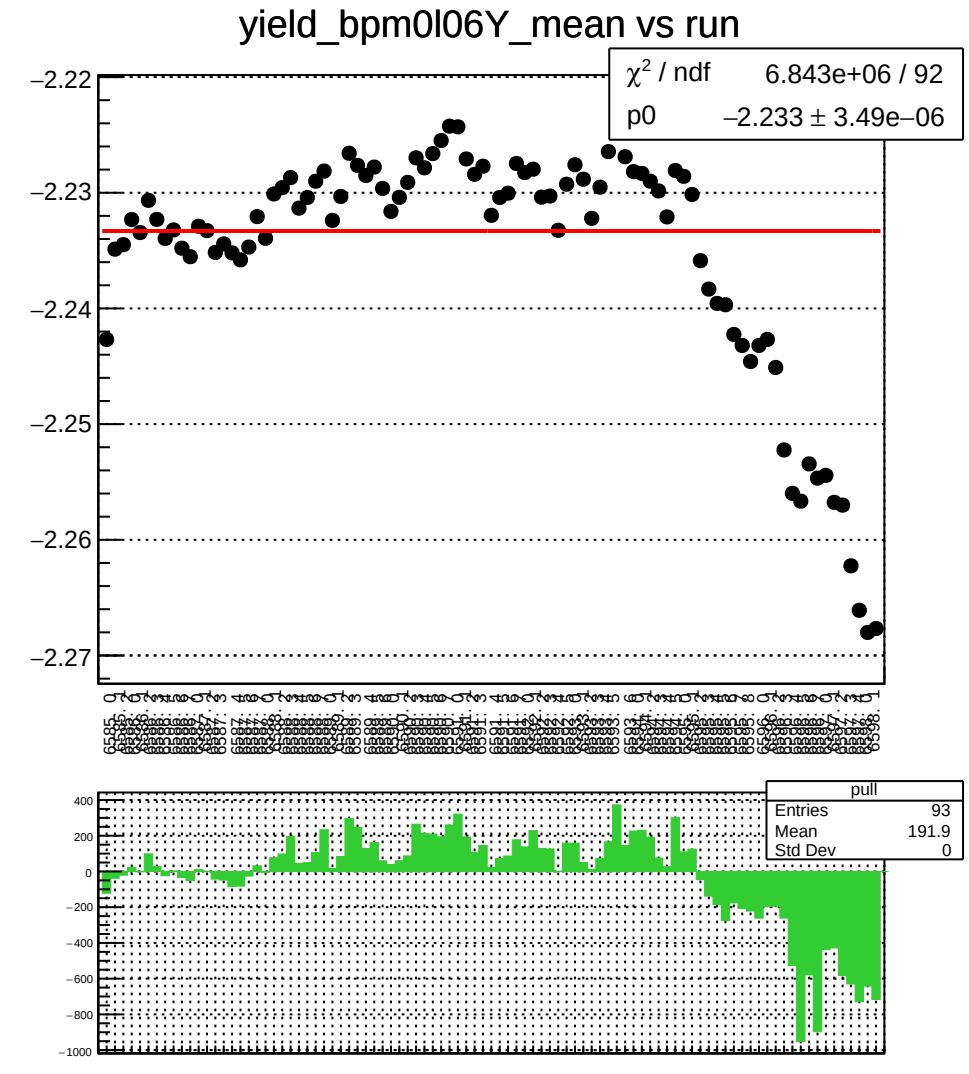

yield_bpm0l05Y_mean vs run
χ² / ndf 1.59e+06 / 92
p0 0.4783 ± 8.744e−06
0.5
0.49
0.48
0.47
0.46
0.45
pull
Entries 93
Mean 243.1
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

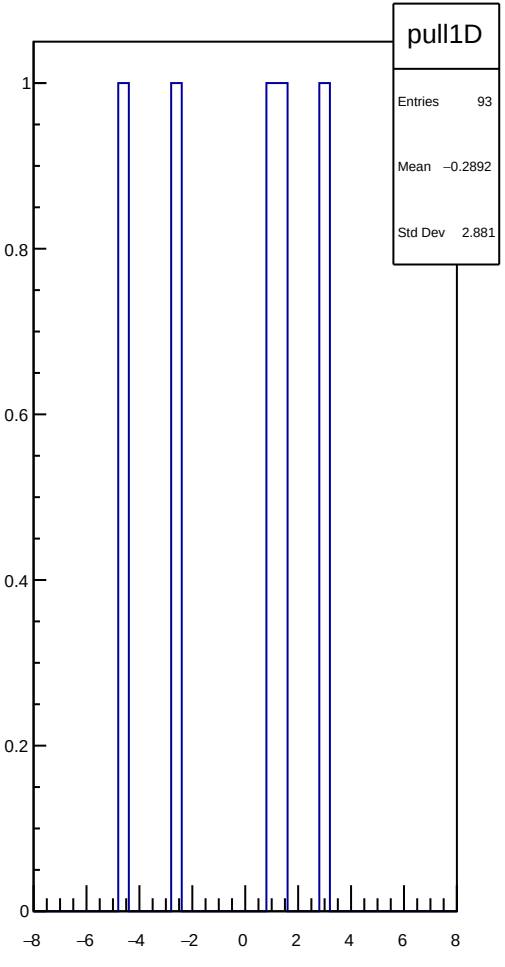

pull1D
Entries 93
Mean 3.451
Std Dev 5.739
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

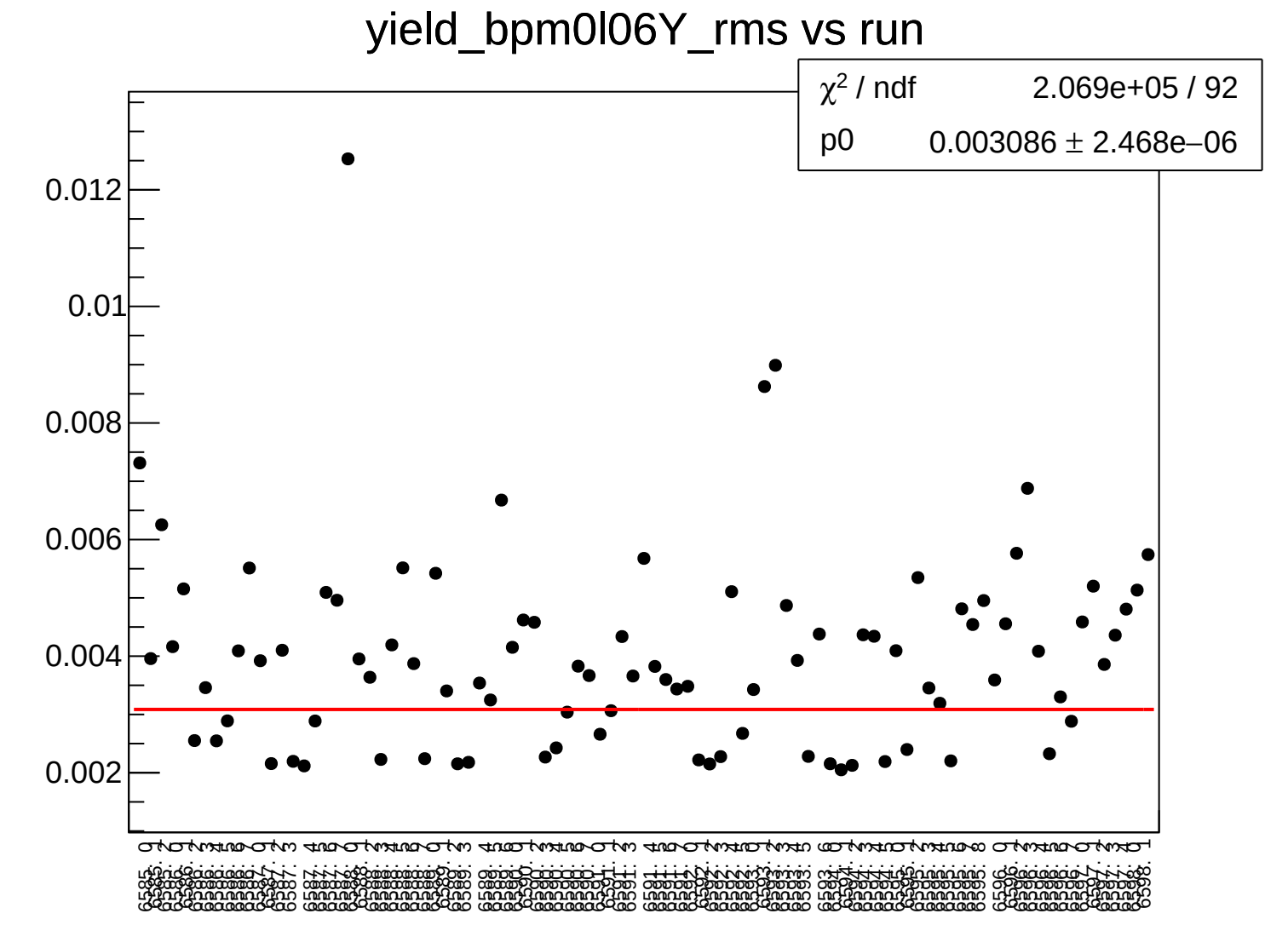

yield_bpm0l05Y_rms vs run
χ² / ndf 5.121e+05 / 92
p0 0.006936 ± 6.183e−06
0.06
0.05
0.04
0.03
0.02
0.01

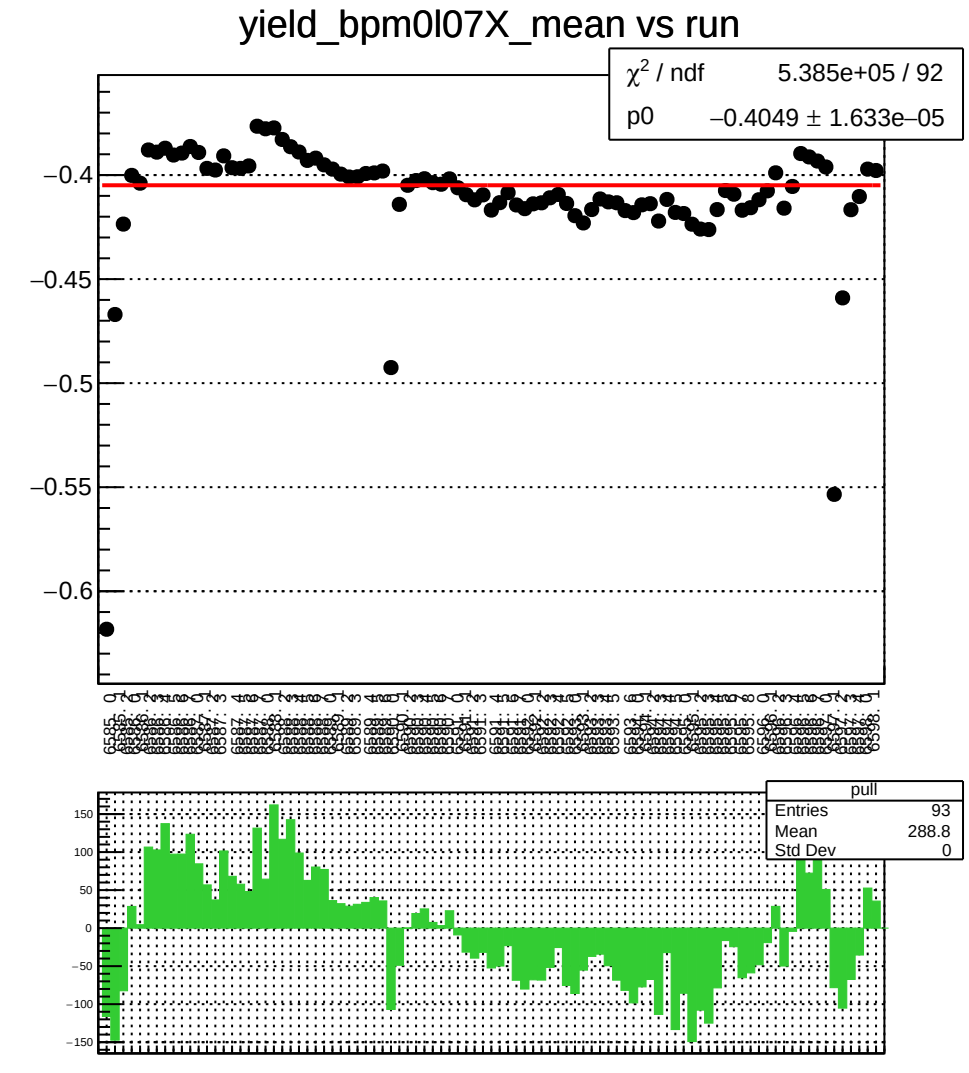

yield_bpm0l06X_mean vs run
χ² / ndf 5.675e+06 / 92
p0 1.85 ± 9.959e−06
1.9
1.88
1.86
1.84
1.82
1.8
pull
Entries 93
Mean −128.4
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

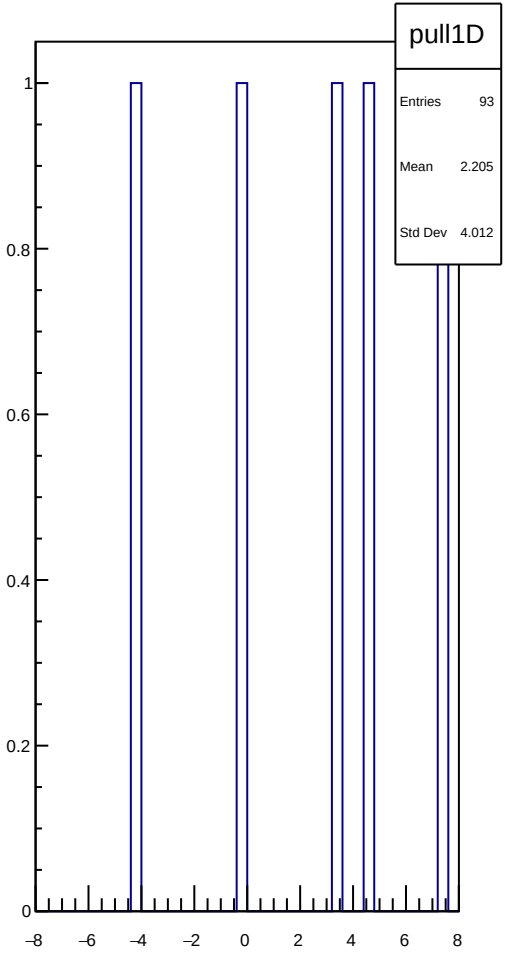

yield_bpm0l06X_rms vs run
χ^2 / ndf 9.802e+04 / 92
p0 0.009107 ± 7.042e−06
0.03
0.025
0.02
0.015
0.01
0.005

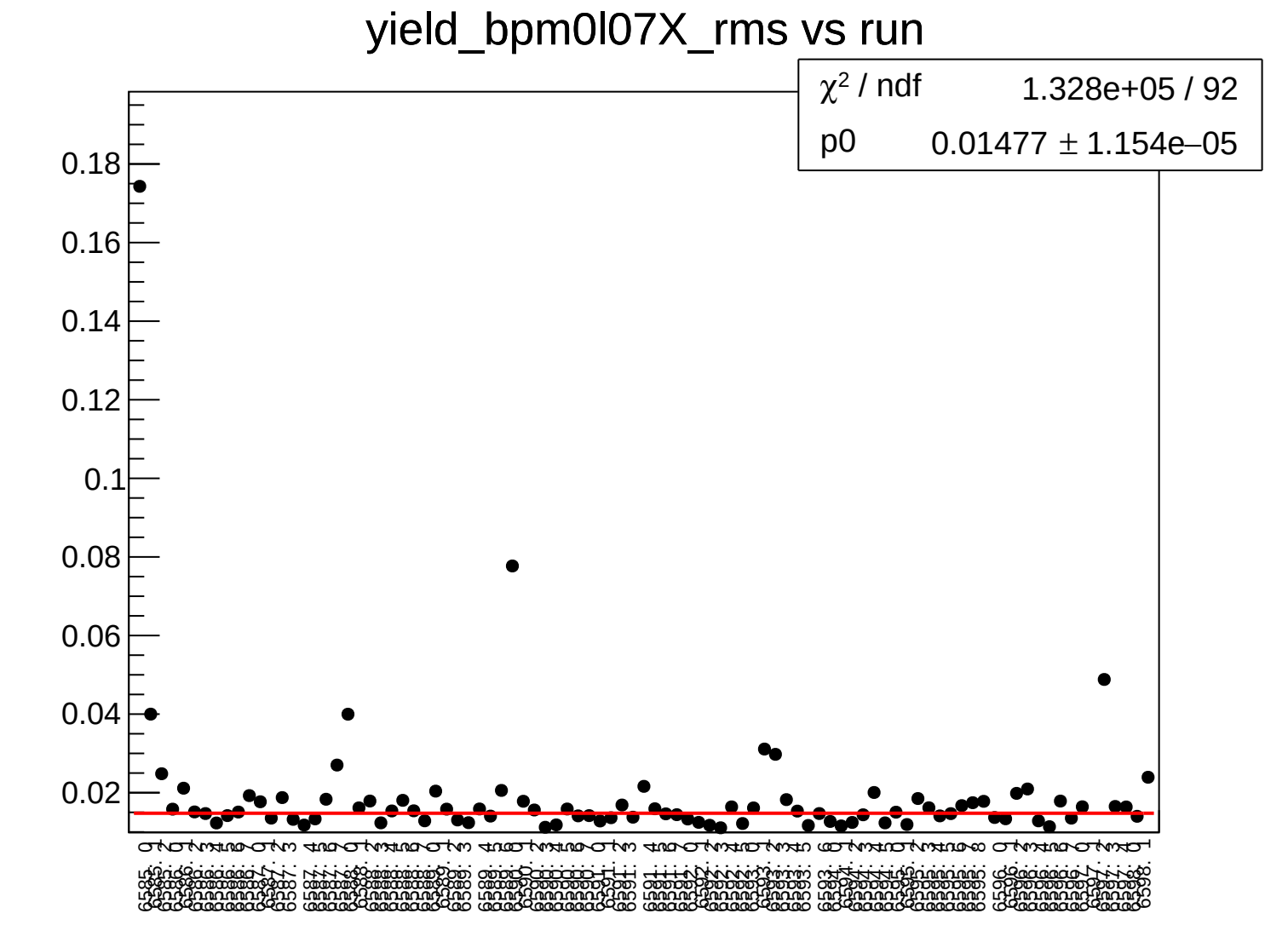

yield_bpm0l06Y_mean vs run
χ² / ndf 6.843e+06 / 92
p0 −2.233 ± 3.49e−06
−2.22
−2.23
−2.24
−2.25
−2.26
−2.27
pull
Entries 93
Mean 191.9
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

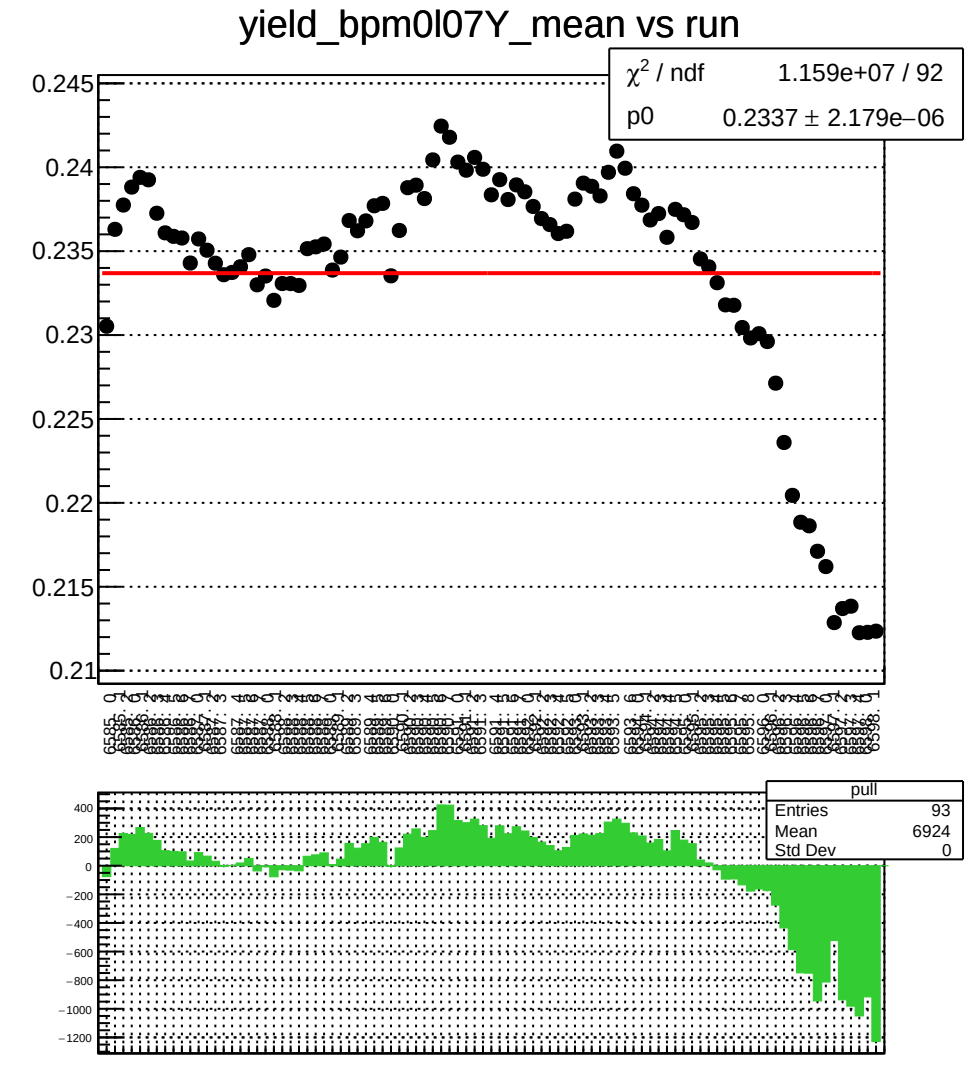

pull1D
Entries 93
Mean −0.2892
Std Dev 2.881
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

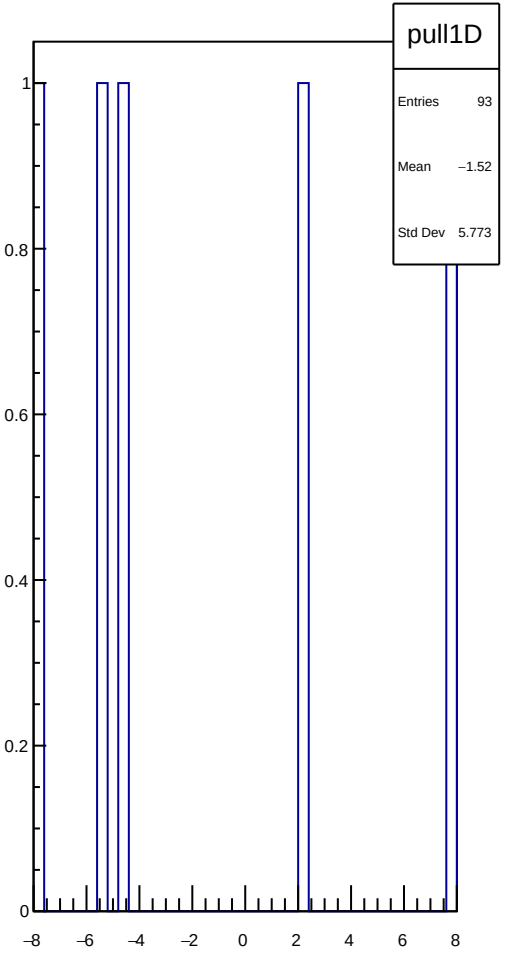

yield_bpm0l06Y_rms vs run
χ² / ndf 2.069e+05 / 92
p0 0.003086 ± 2.468e−06
0.012
0.01
0.008
0.006
0.004
0.002

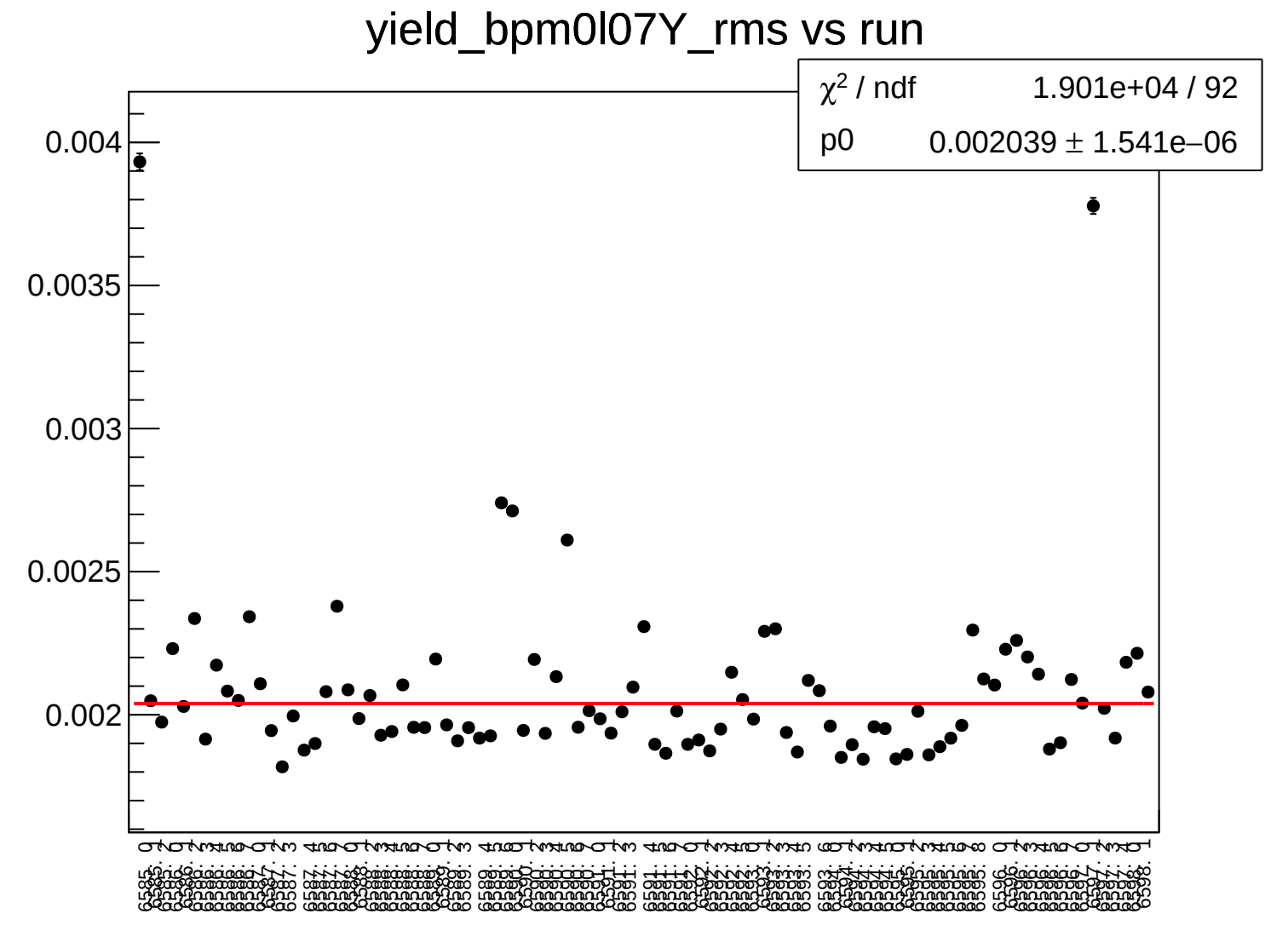

yield_bpm0l07X_mean vs run
χ² / ndf 5.385e+05 / 92
p0 −0.4049 ± 1.633e−05
−0.4
−0.45
−0.5
−0.55
−0.6
pull
Entries 93
Mean 288.8
Std Dev 0
150
100
50
0
−50
−100
−150

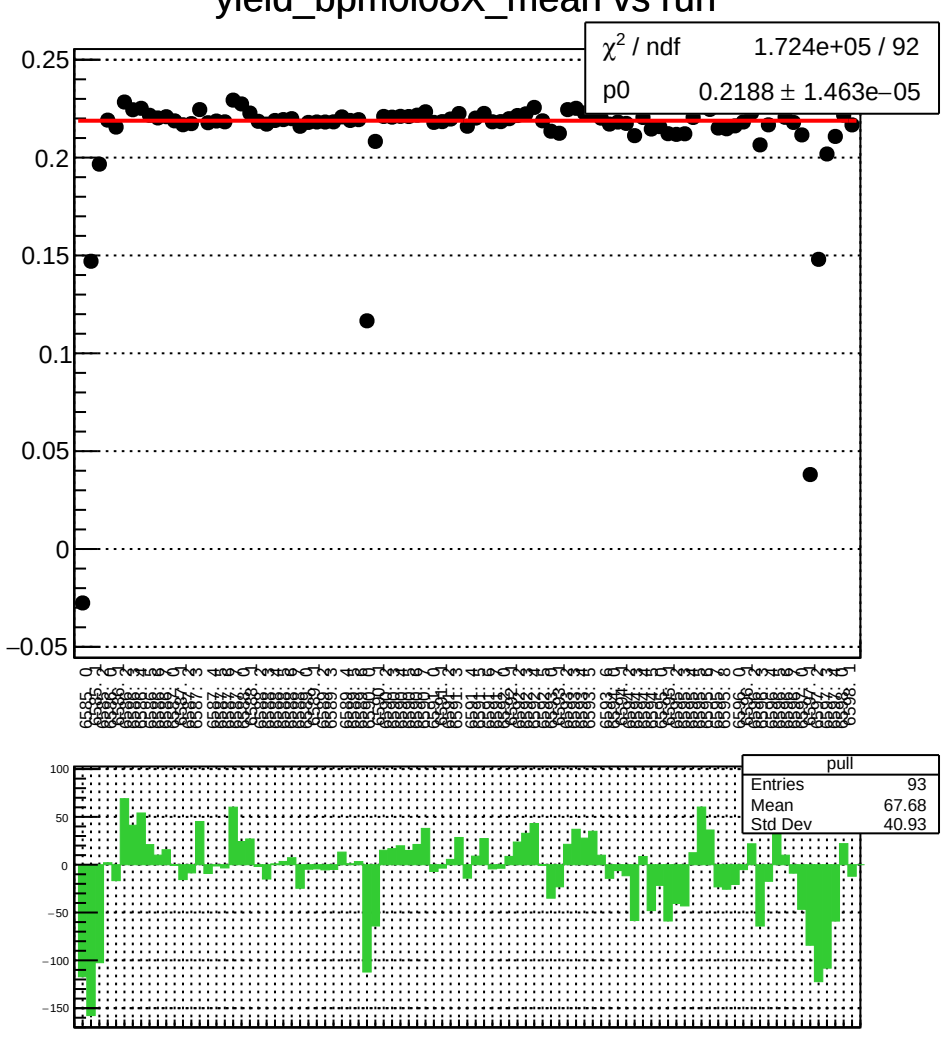

pull1D
Entries 93
Mean 2.205
Std Dev 4.012
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

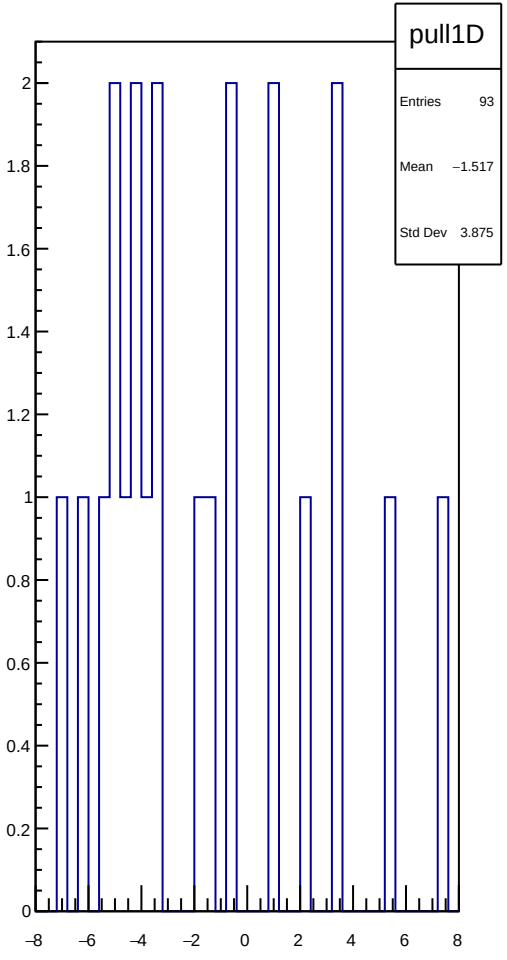

yield_bpm0l07X_rms vs run
χ² / ndf 1.328e+05 / 92
p0 0.01477 ± 1.154e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

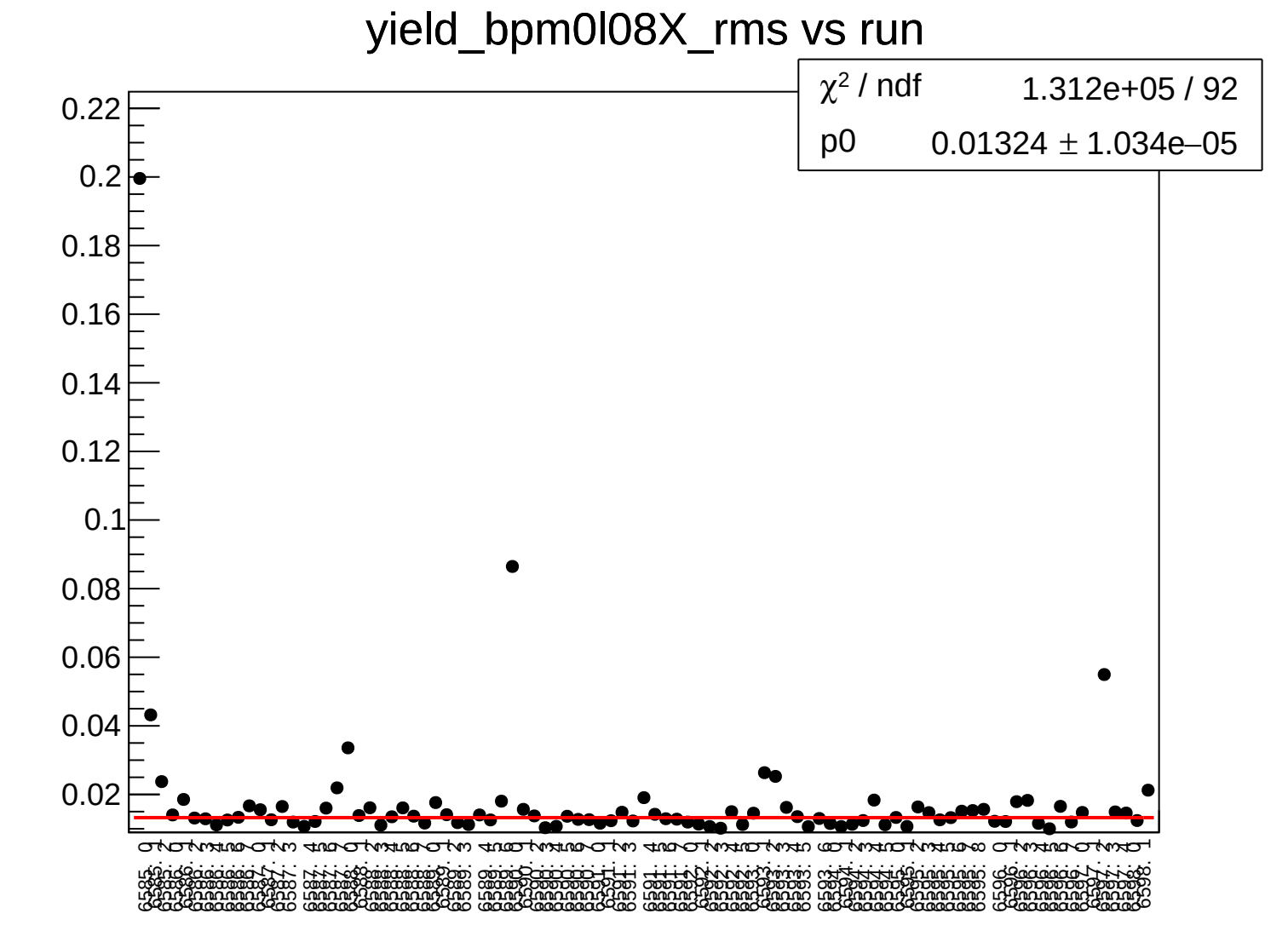

yield_bpm0l07Y_mean vs run
χ² / ndf 1.159e+07 / 92
p0 0.2337 ± 2.179e−06
0.245
0.24
0.235
0.23
0.225
0.22
0.215
0.21
pull
Entries 93
Mean 6924
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

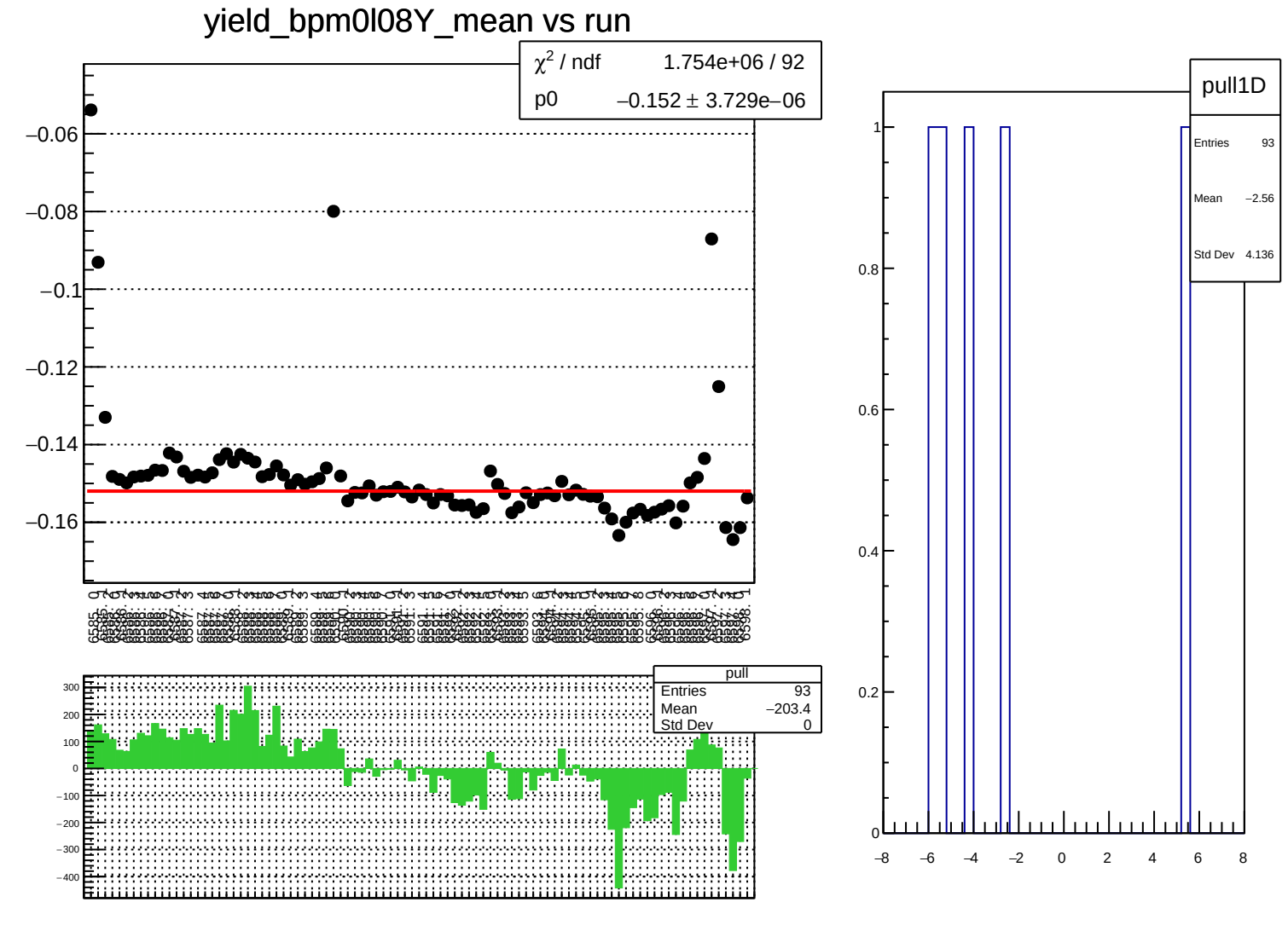

pull1D
Entries 93
Mean −1.52
Std Dev 5.773
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

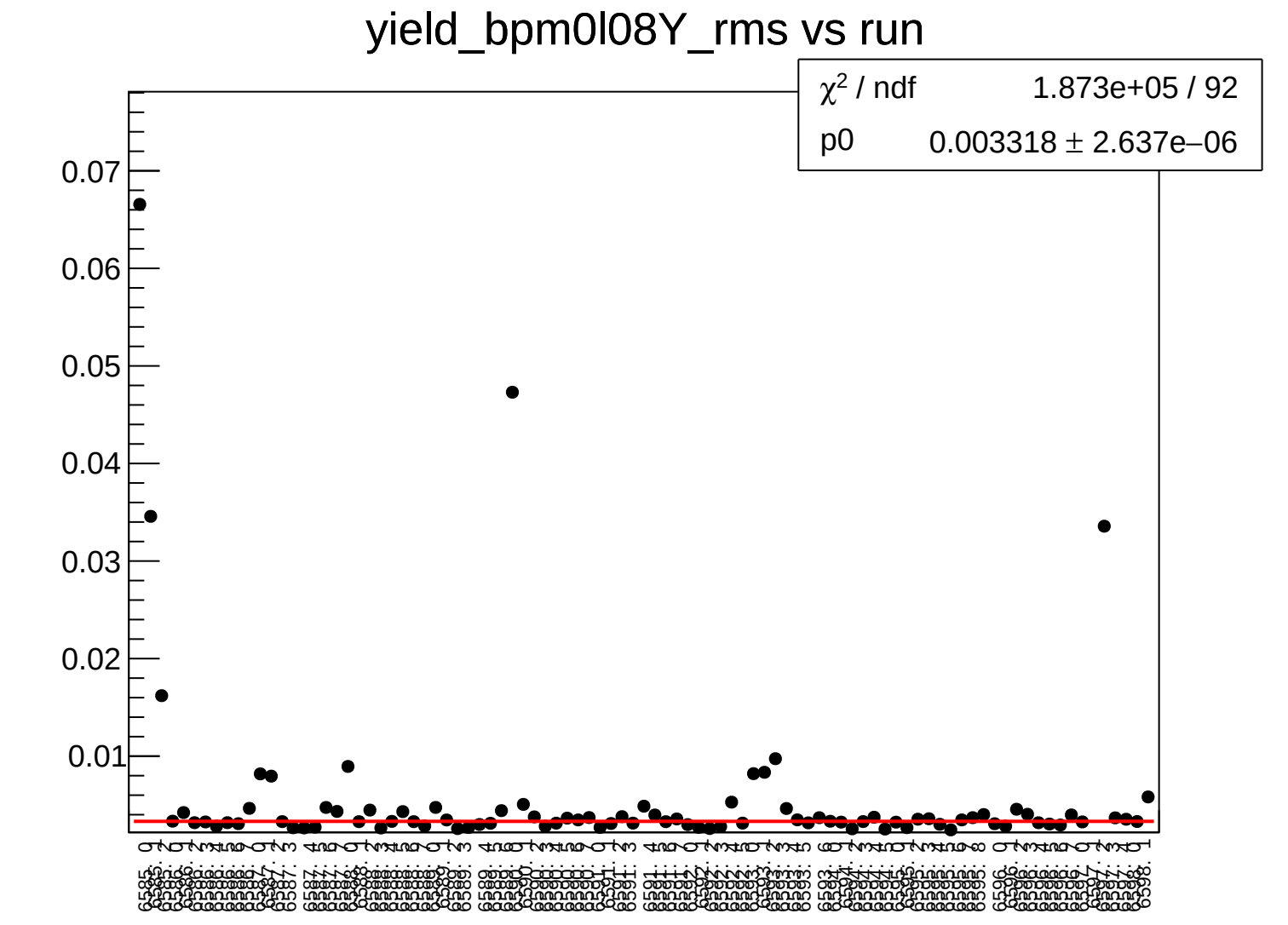

yield_bpm0l07Y_rms vs run
χ² / ndf 1.901e+04 / 92
p0 0.002039 ± 1.541e−06
0.004
0.0035
0.003
0.0025
0.002

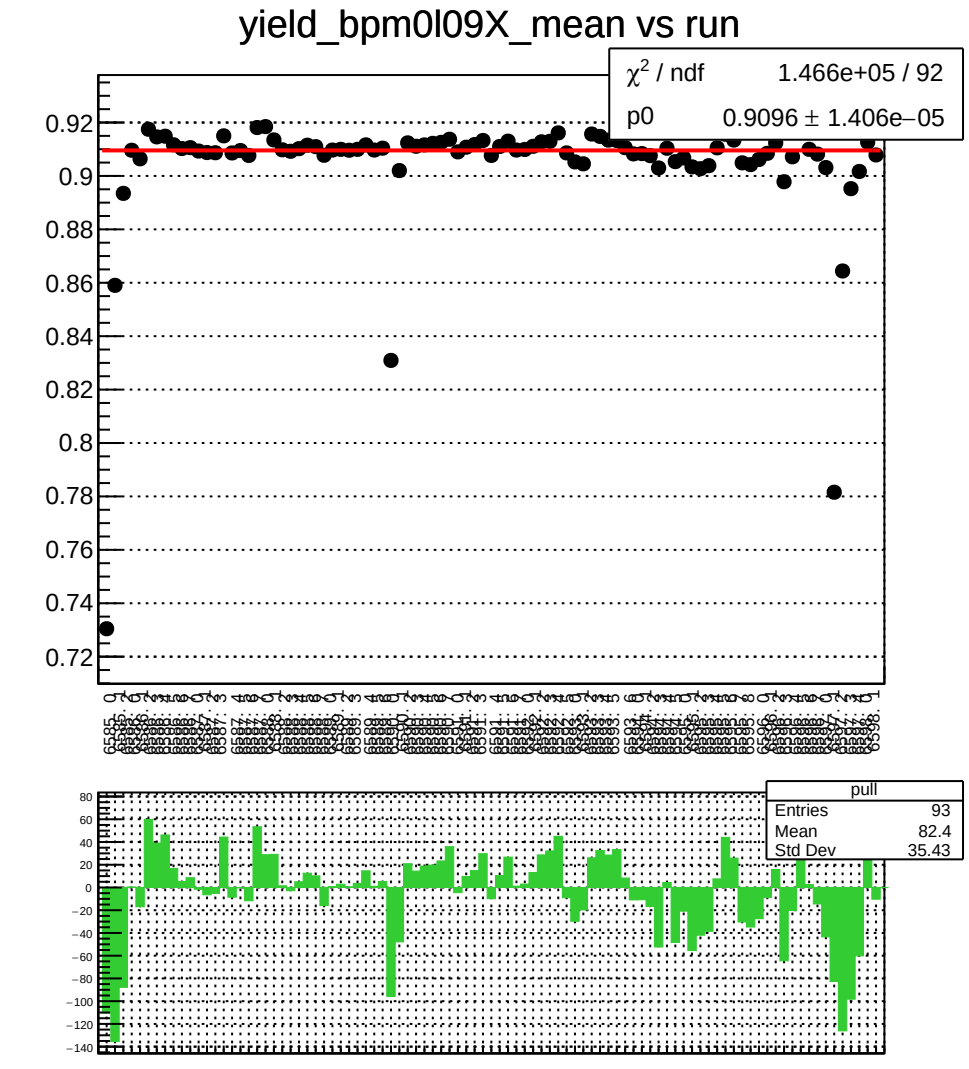

yield_bpm0l08X_mean vs run
χ² / ndf 1.724e+05 / 92
p0 0.2188 ± 1.463e−05
pull
Entries 93
Mean 67.68
Std Dev 40.93

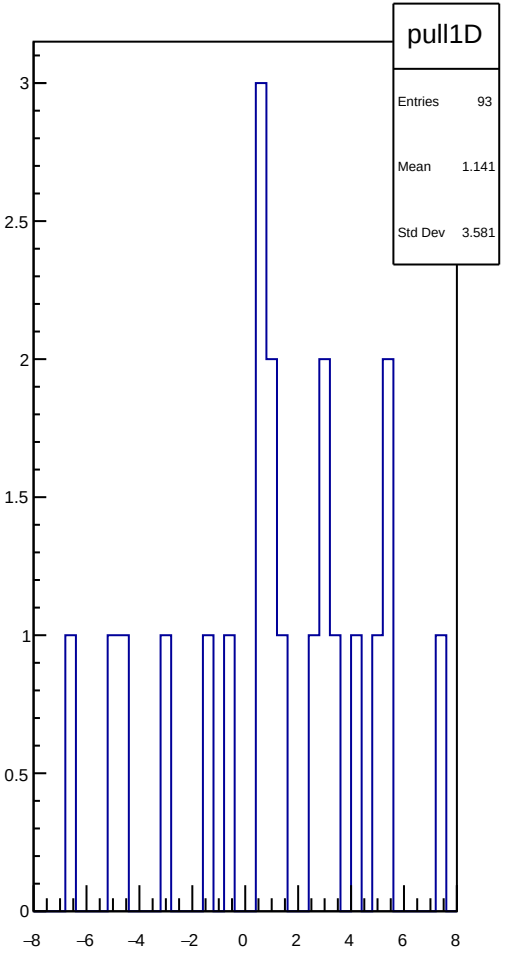

pull1D
Entries 93
Mean −1.517
Std Dev 3.875

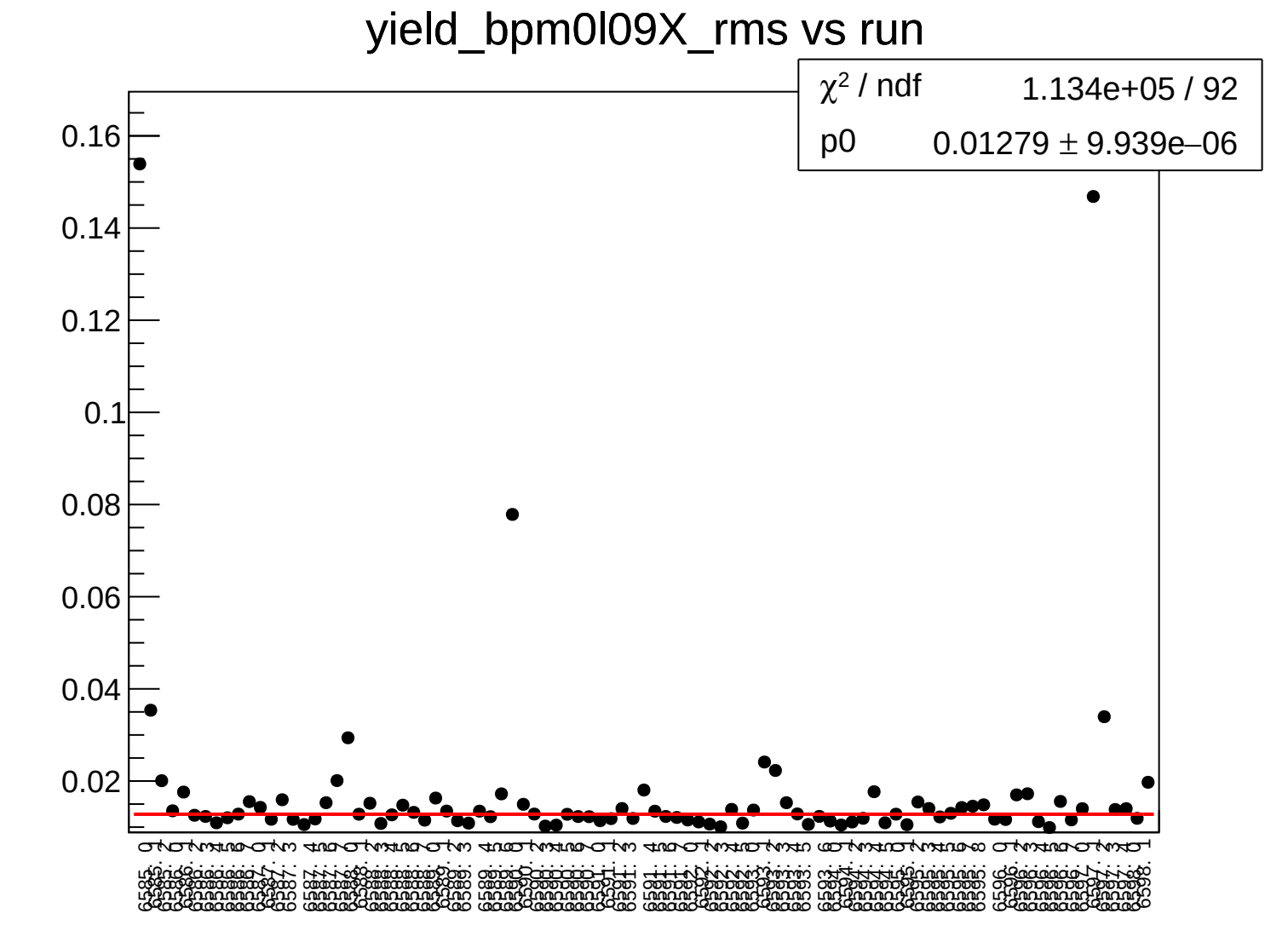

yield_bpm0l08X_rms vs run
χ² / ndf 1.312e+05 / 92
p0 0.01324 ± 1.034e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

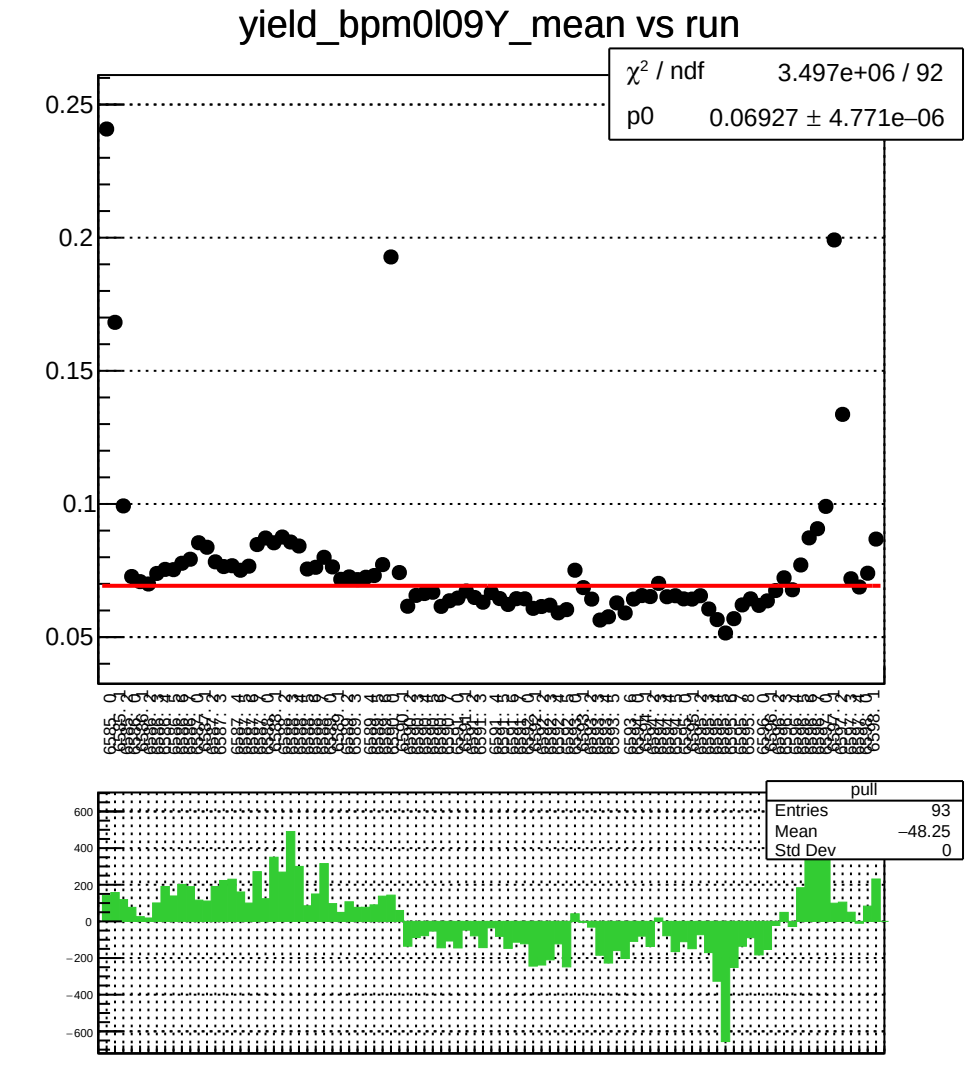

yield_bpm0l08Y_mean vs run
χ² / ndf 1.754e+06 / 92
p0 −0.152 ± 3.729e−06
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 93
Mean −203.4
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 93
Mean −2.56
Std Dev 4.136
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

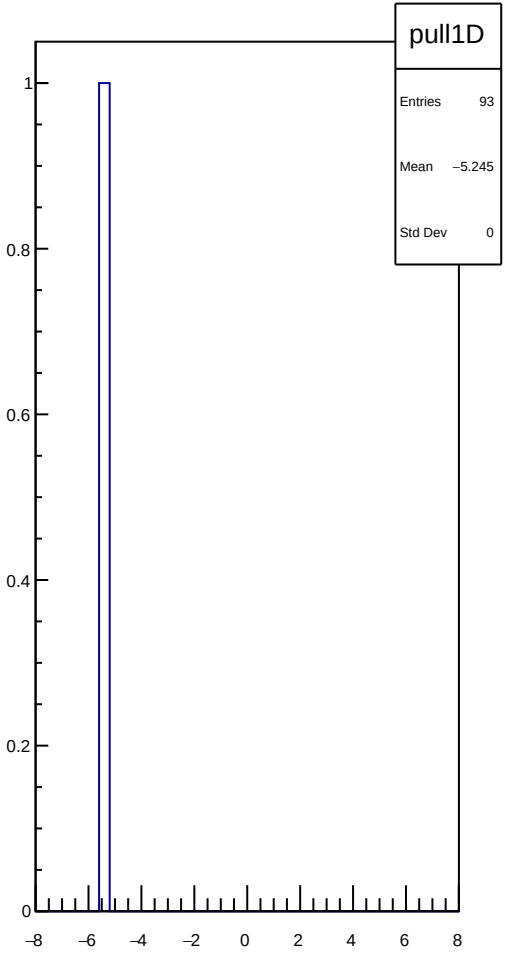

yield_bpm0l08Y_rms vs run
χ^2 / ndf 1.873e+05 / 92
p0 0.003318 ± 2.637e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

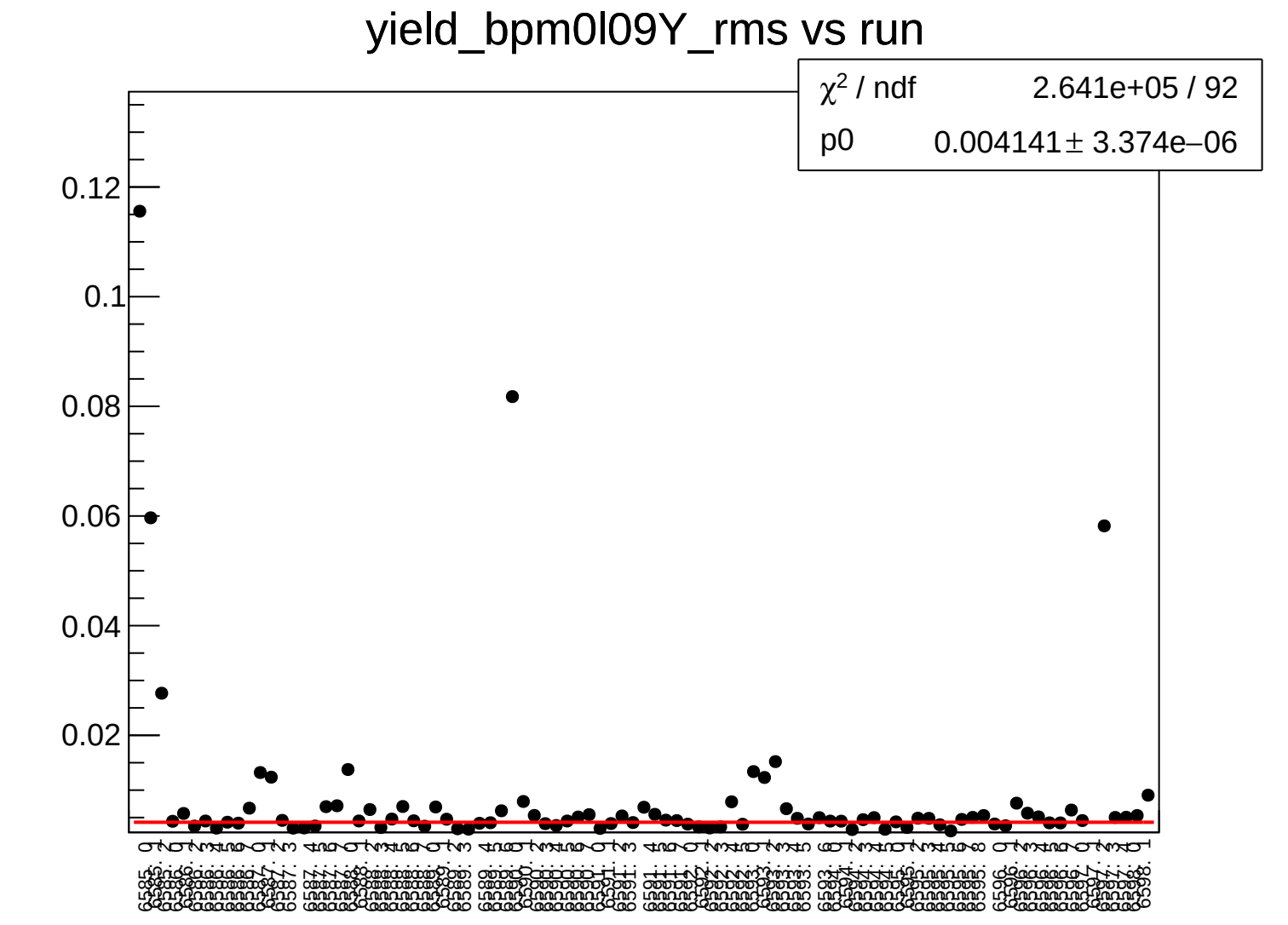

yield_bpm0l09X_mean vs run
χ² / ndf 1.466e+05 / 92
p0 0.9096 ± 1.406e−05
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
pull
Entries 93
Mean 82.4
Std Dev 35.43
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

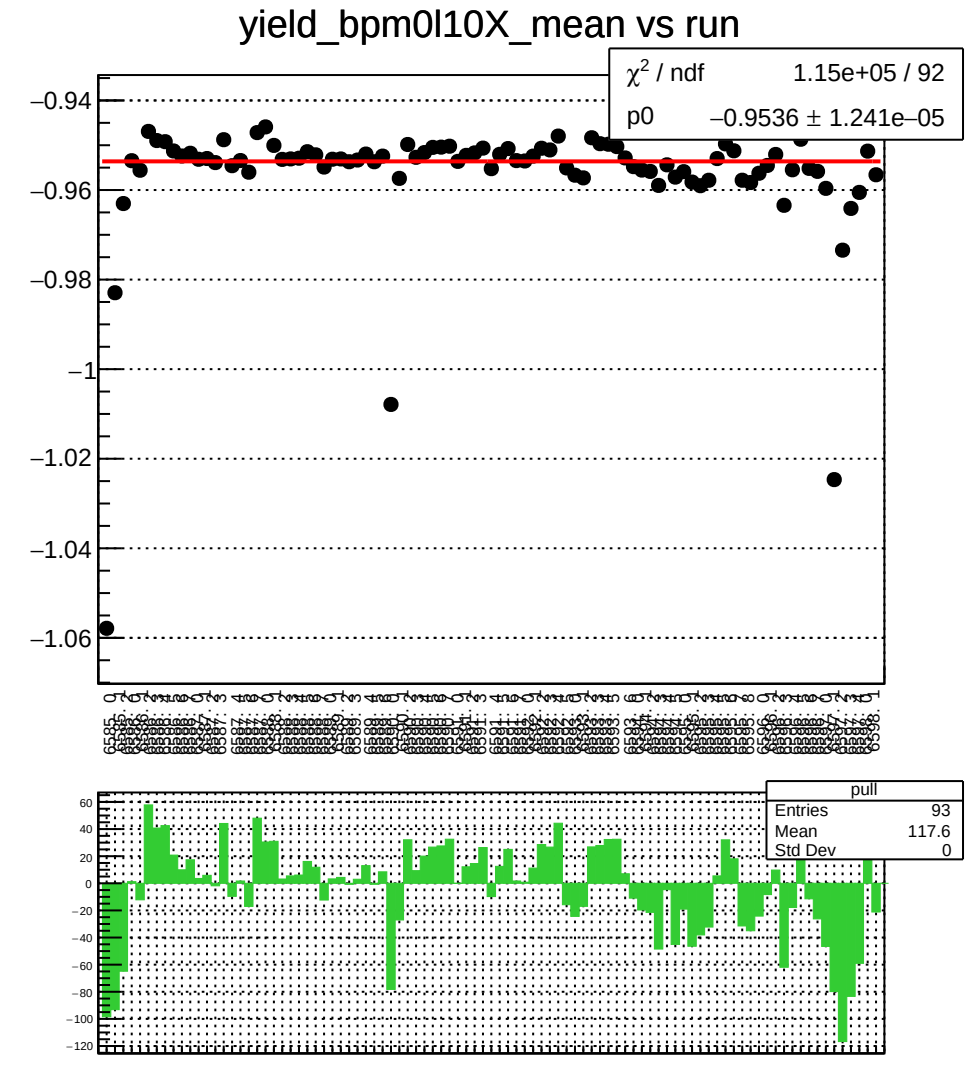

pull1D
Entries 93
Mean 1.141
Std Dev 3.581
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

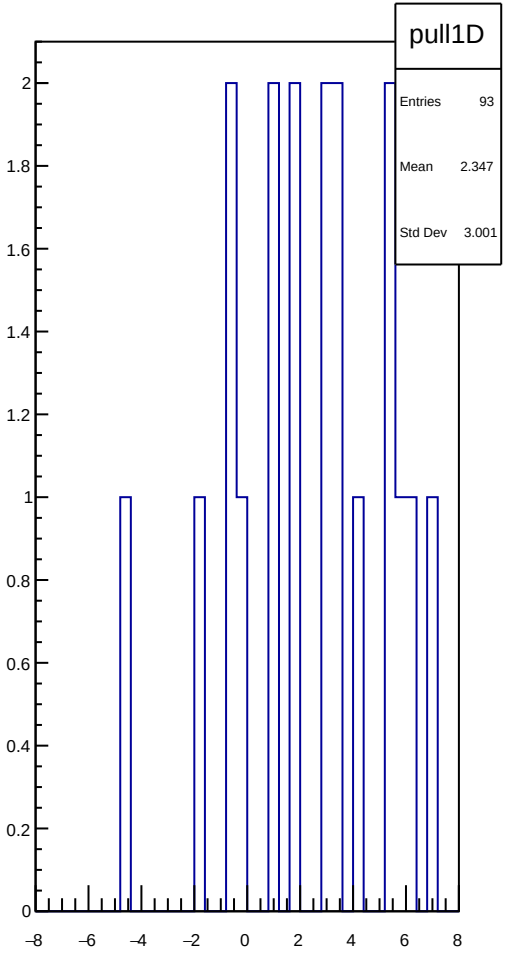

yield_bpm0l09X_rms vs run
χ² / ndf 1.134e+05 / 92
p0 0.01279 ± 9.939e–06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

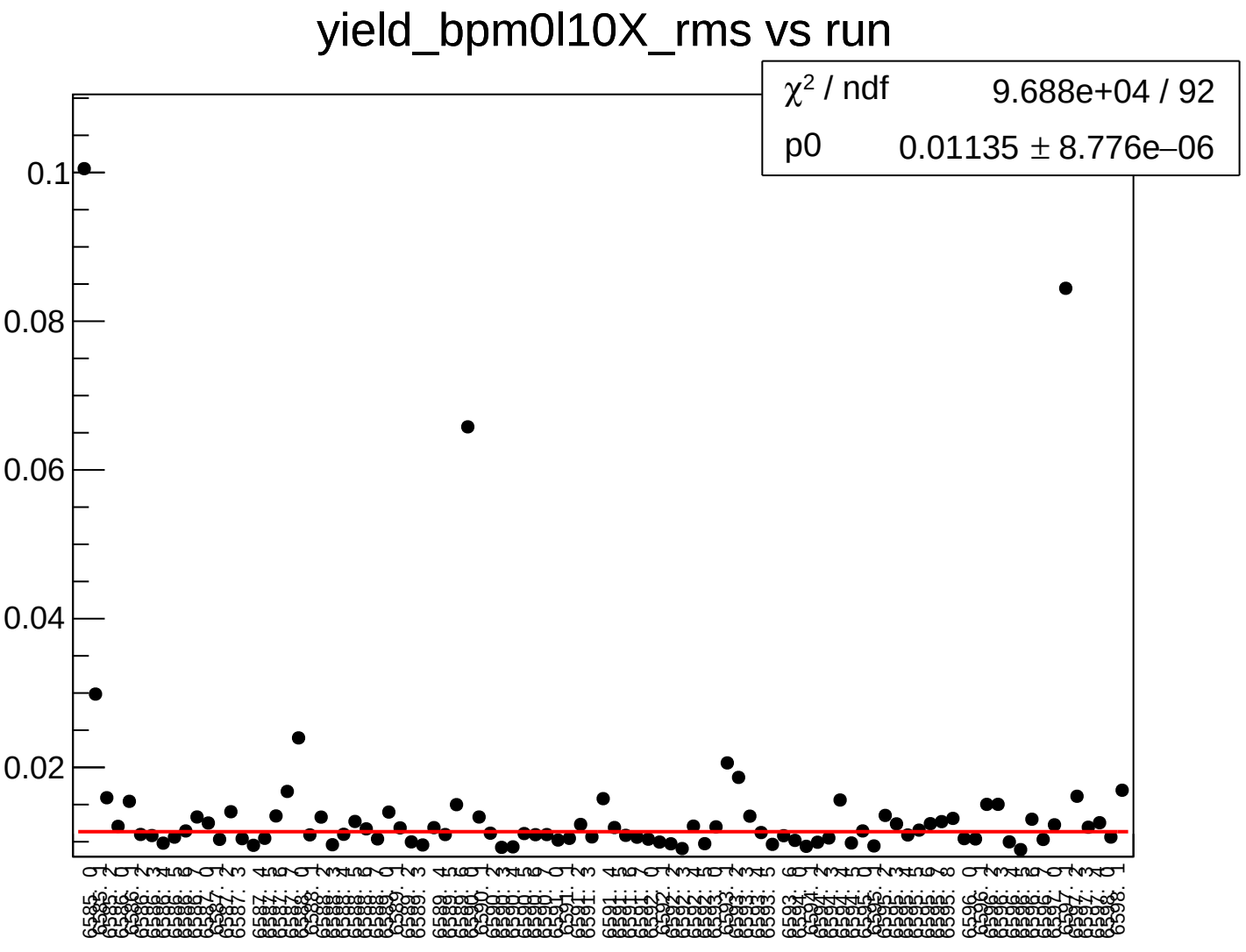

yield_bpm0l09Y_mean vs run
χ² / ndf 3.497e+06 / 92
p0 0.06927 ± 4.771e−06
0.25
0.2
0.15
0.1
0.05
pull
Entries 93
Mean −48.25
Std Dev 0
600
400
200
0
−200
−400
−600

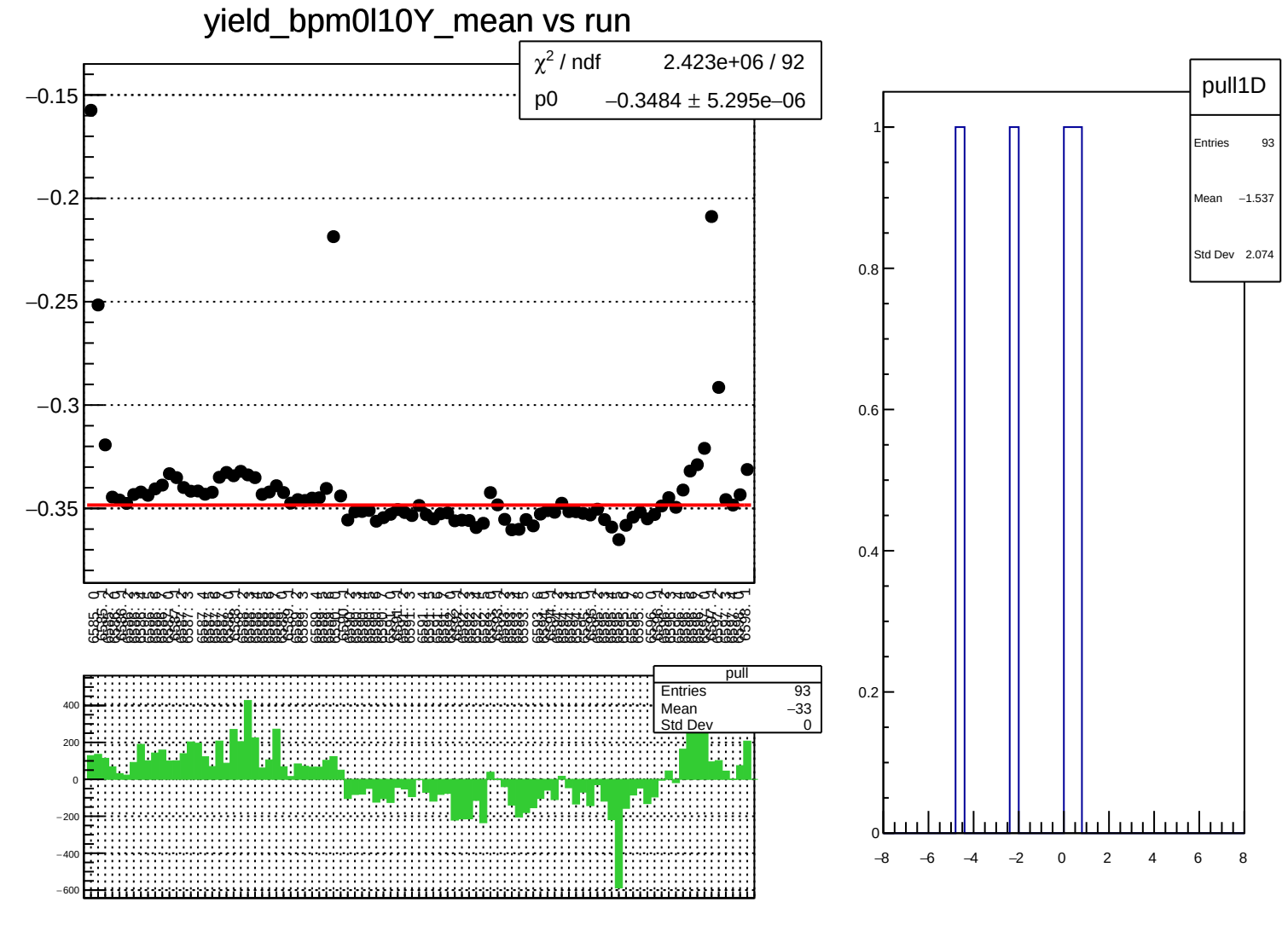

pull1D
Entries 93
Mean −5.245
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

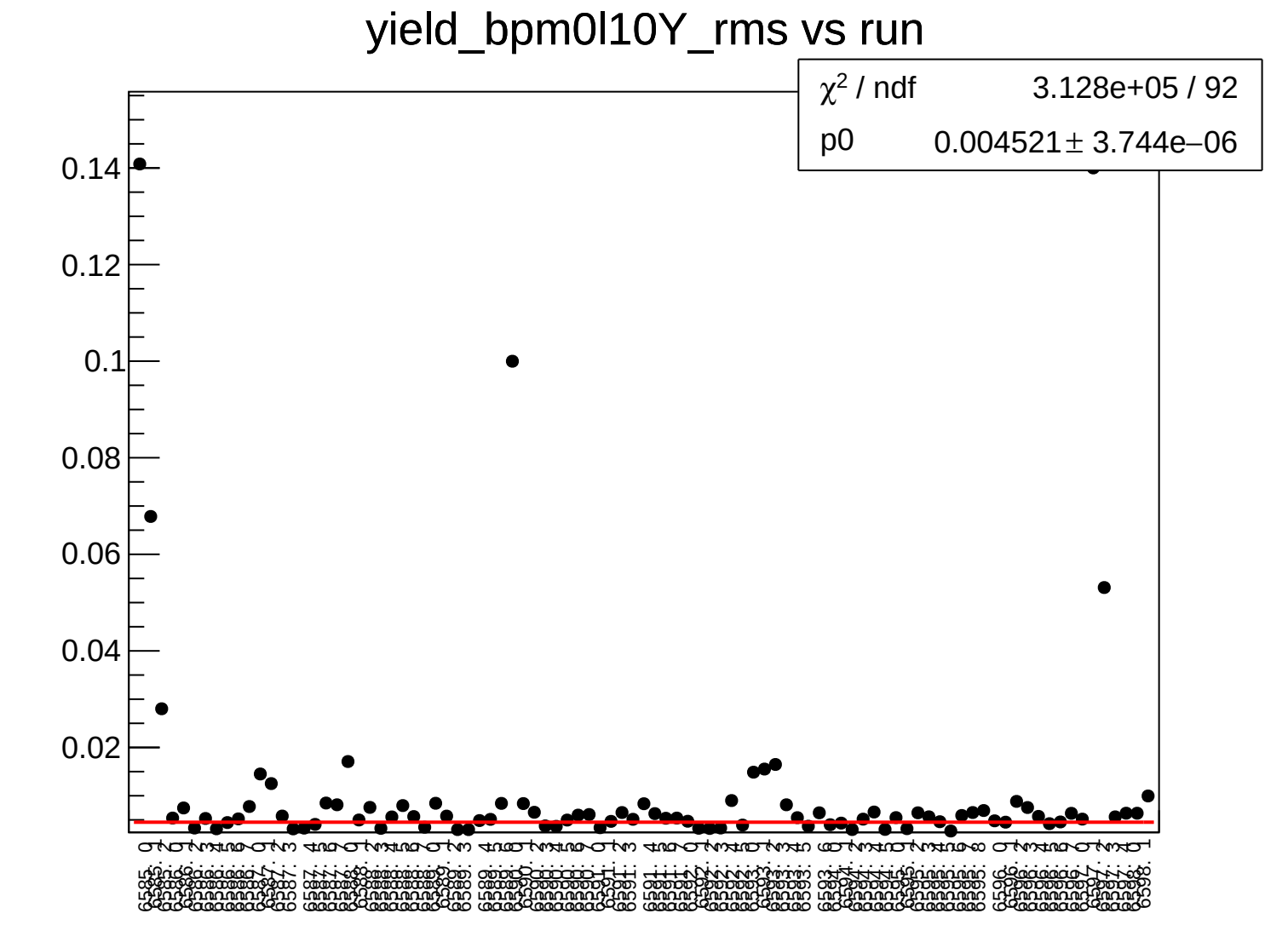

yield_bpm0l09Y_rms vs run
χ² / ndf 2.641e+05 / 92
p0 0.004141 ± 3.374e−06
0.12
0.1
0.08
0.06
0.04
0.02

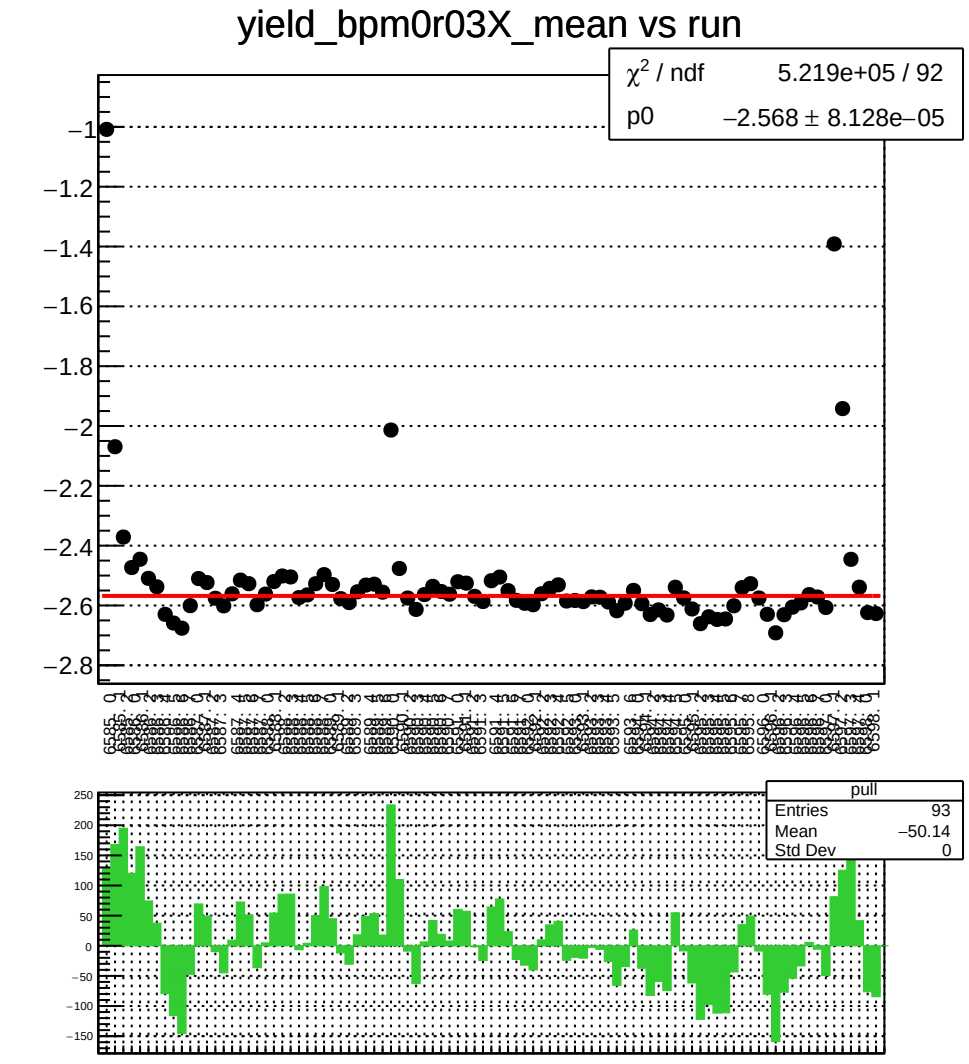

yield_bpm0l10X_mean vs run
χ² / ndf 1.15e+05 / 92
p0 −0.9536 ± 1.241e−05
−0.94
−0.96
−0.98
−1
−1.02
−1.04
−1.06
pull
Entries 93
Mean 117.6
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

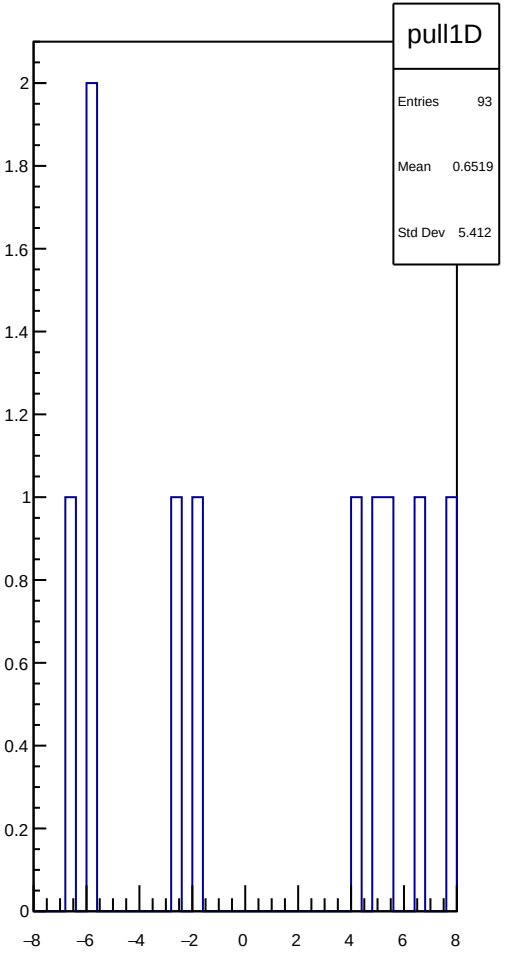

pull1D
Entries 93
Mean 2.347
Std Dev 3.001
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

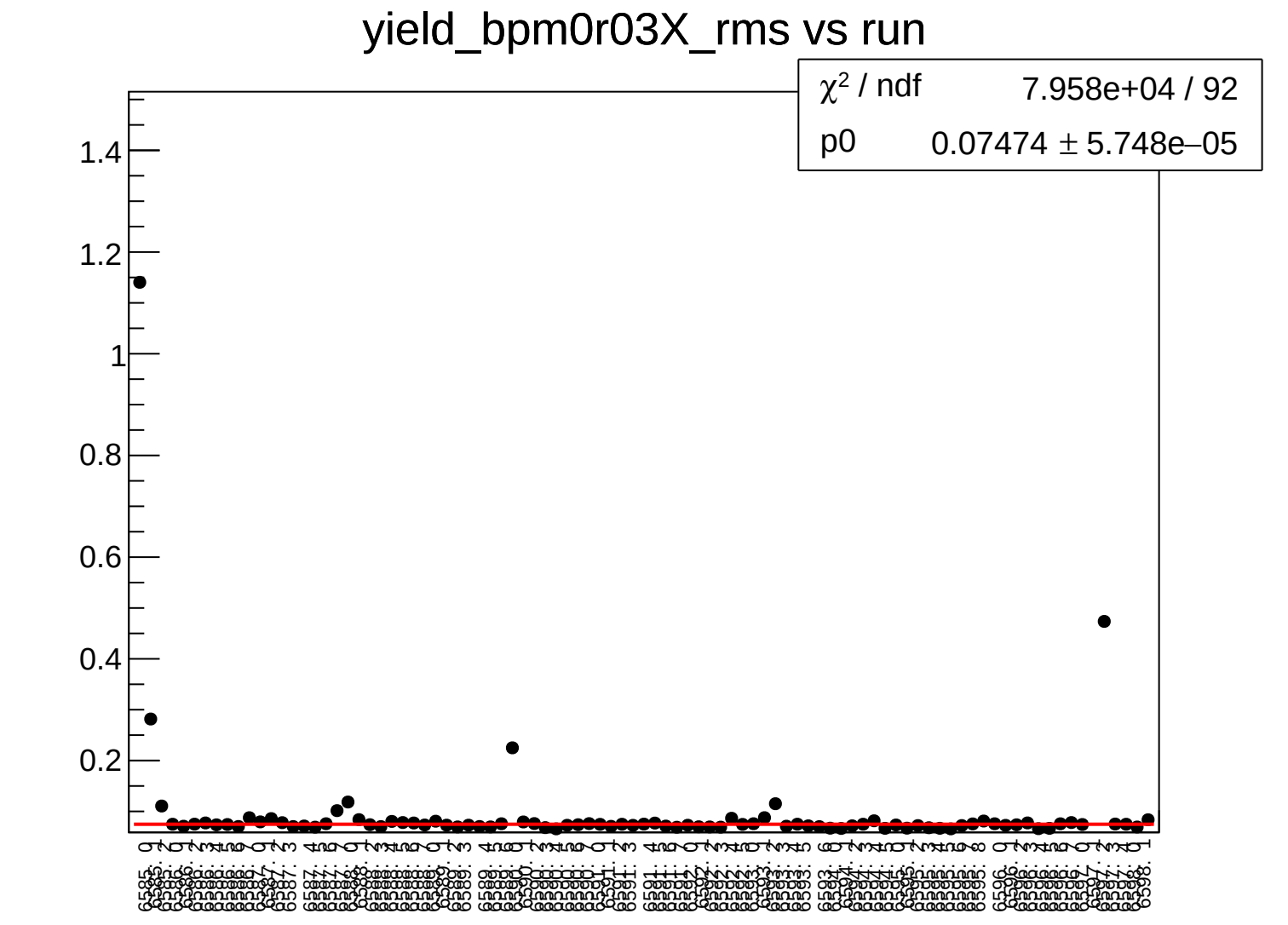

yield_bpm0l10X_rms vs run
χ² / ndf 9.688e+04 / 92
p0 0.01135 ± 8.776e–06
0.1
0.08
0.06
0.04
0.02

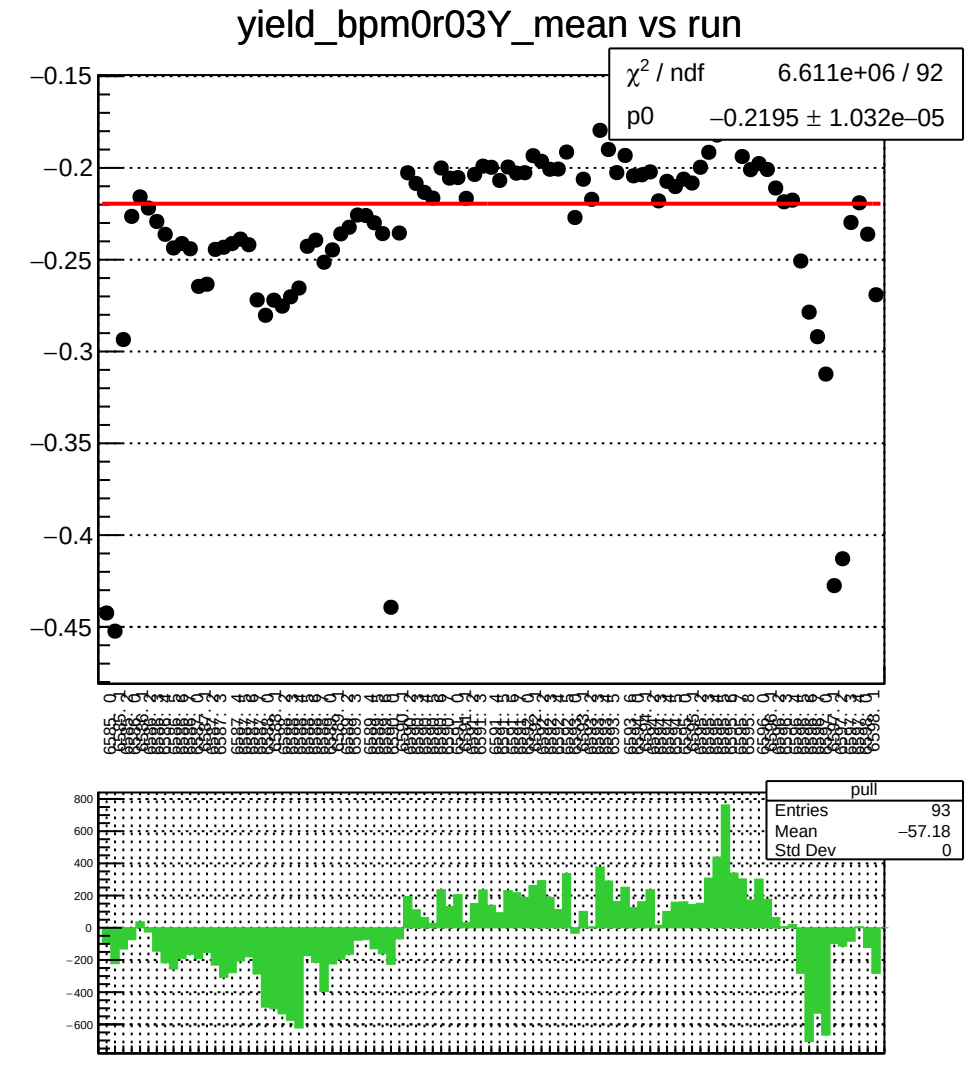

yield_bpm0l10Y_mean vs run
χ² / ndf 2.423e+06 / 92
p0 −0.3484 ± 5.295e−06
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 93
Mean −33
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 93
Mean −1.537
Std Dev 2.074
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

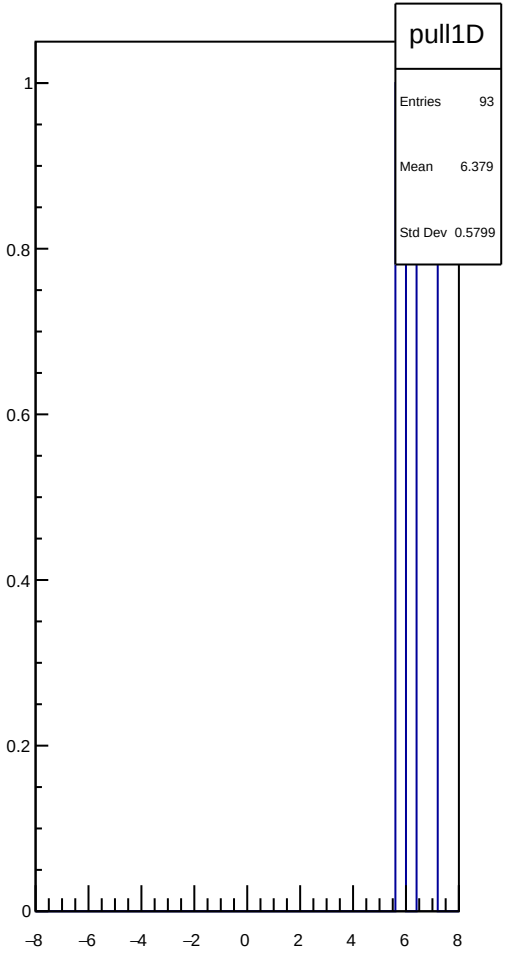

yield_bpm0l10Y_rms vs run
χ² / ndf 3.128e+05 / 92
p0 0.004521 ± 3.744e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

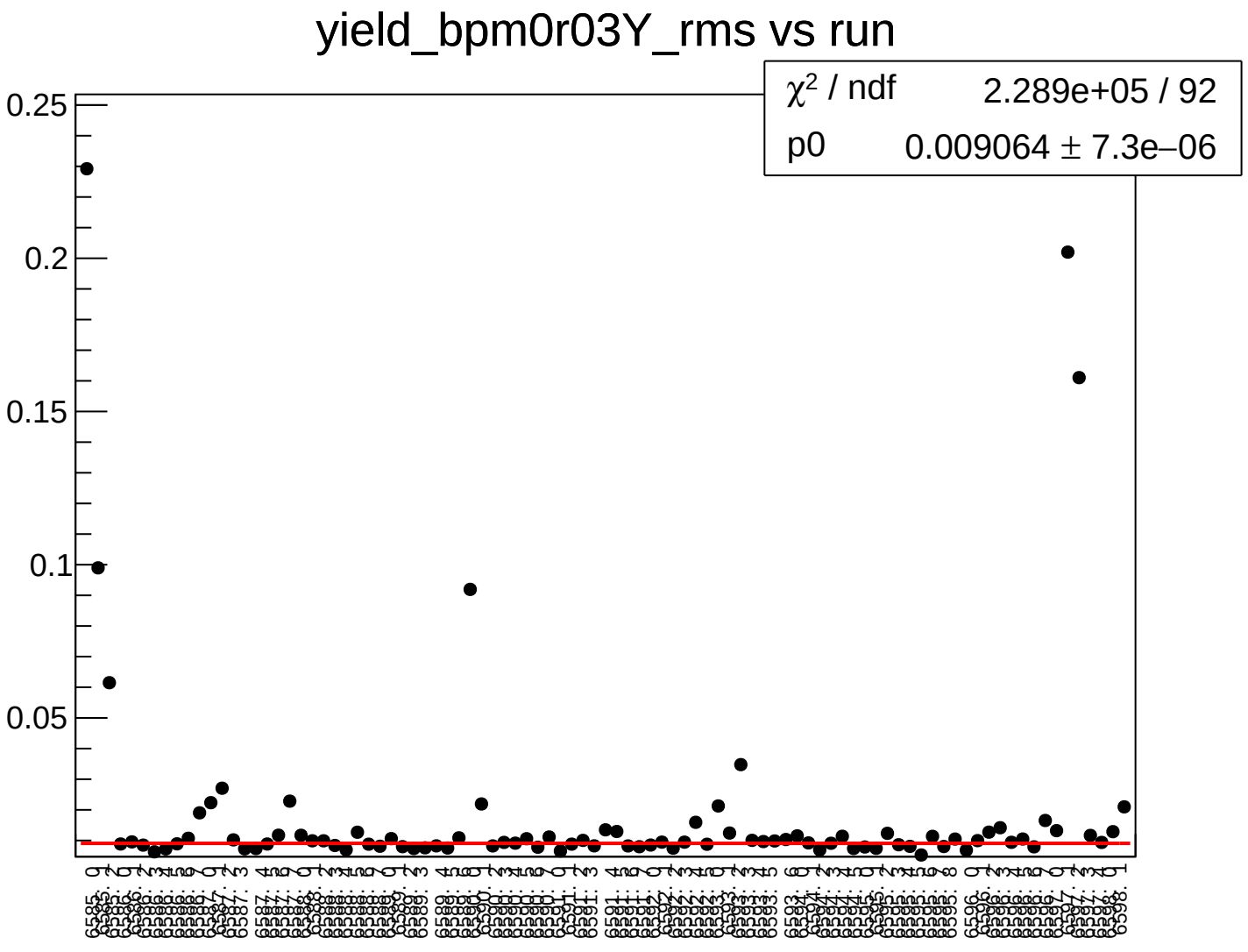

yield_bpm0r03X_mean vs run
χ² / ndf 5.219e+05 / 92
p0 −2.568 ± 8.128e−05
pull
Entries 93
Mean −50.14
Std Dev 0

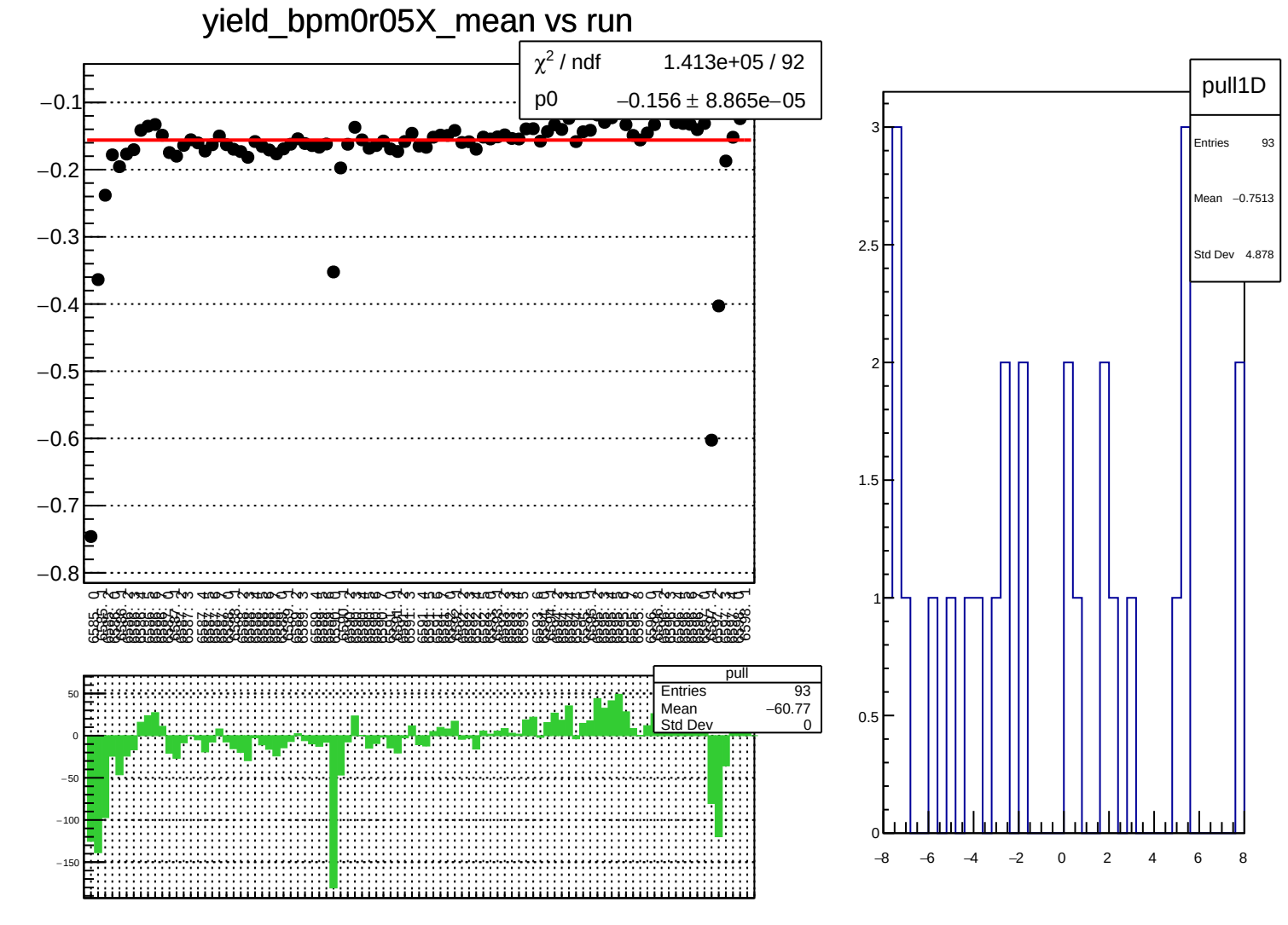

pull1D
Entries 93
Mean 0.6519
Std Dev 5.412

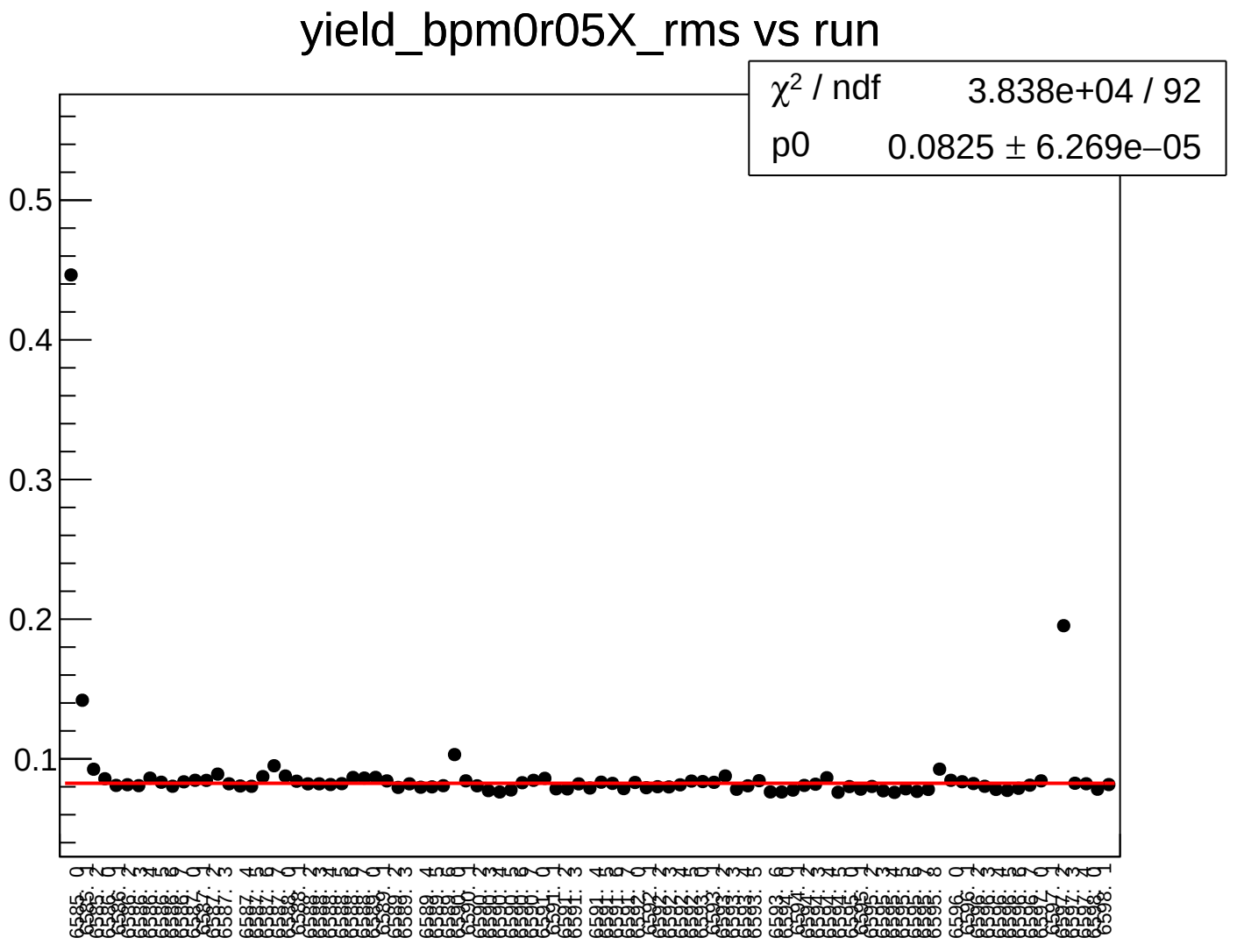

yield_bpm0r03X_rms vs run
χ² / ndf 7.958e+04 / 92
p0 0.07474 ± 5.748e–05
1.4
1.2
1
0.8
0.6
0.4
0.2

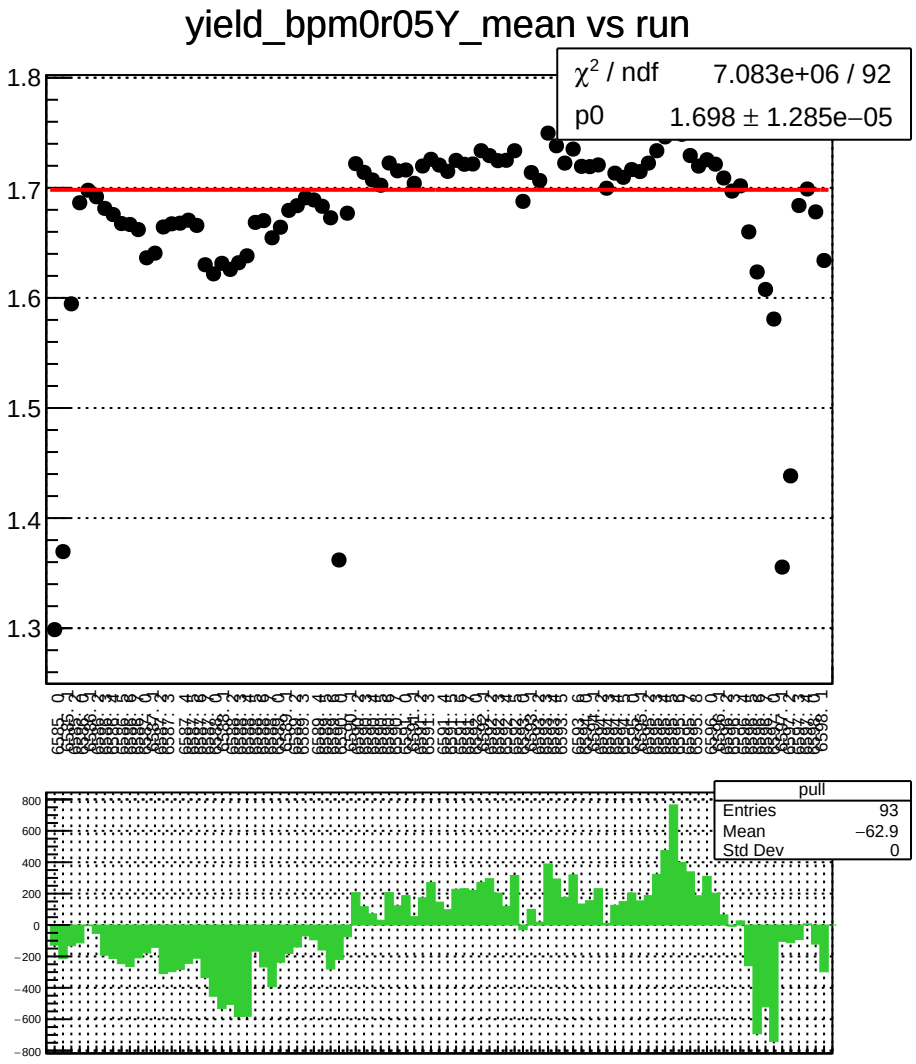

yield_bpm0r03Y_mean vs run
χ² / ndf 6.611e+06 / 92
p0 −0.2195 ± 1.032e−05
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 93
Mean −57.18
Std Dev 0
800
600
400
200
0
−200
−400
−600

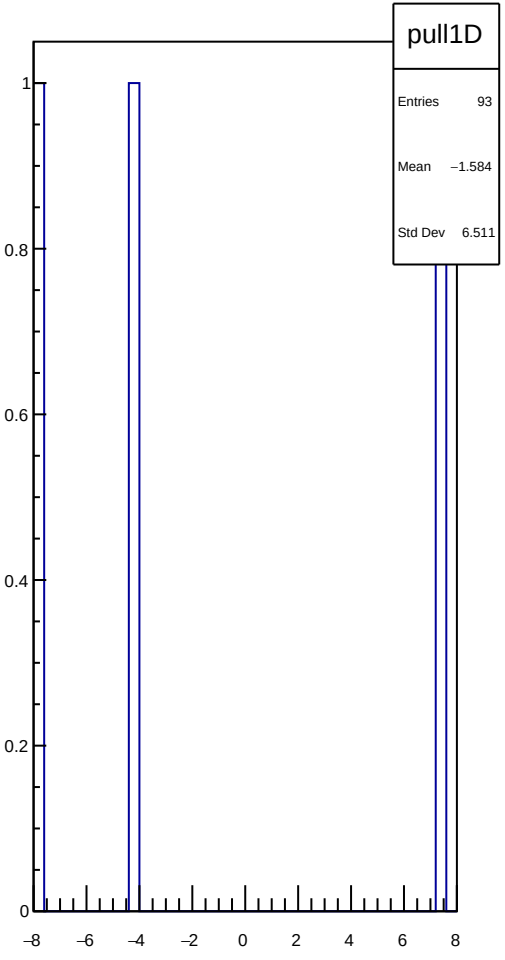

pull1D
Entries 93
Mean 6.379
Std Dev 0.5799
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

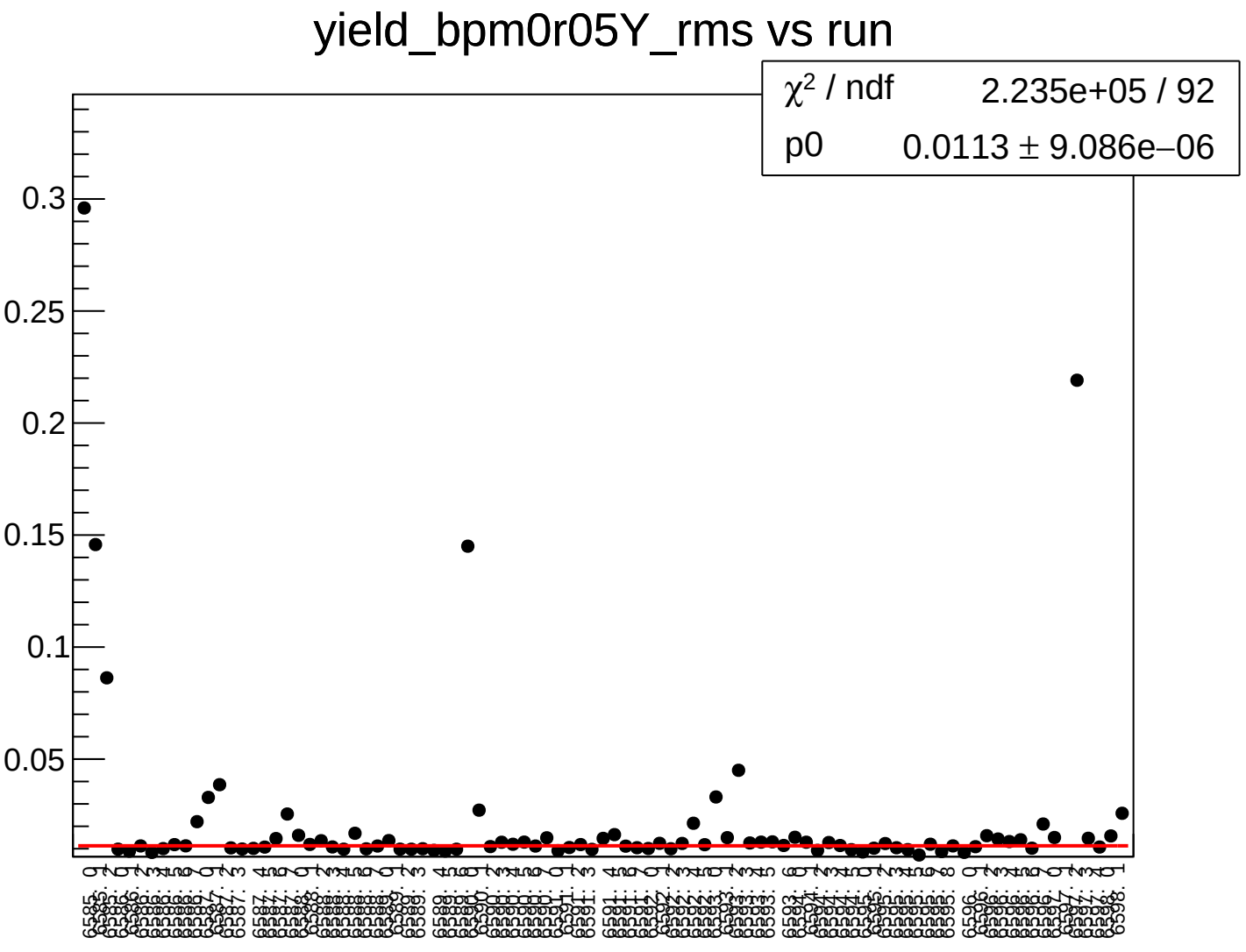

yield_bpm0r03Y_rms vs run
χ² / ndf 2.289e+05 / 92
p0 0.009064 ± 7.3e−06
0.25
0.2
0.15
0.1
0.05

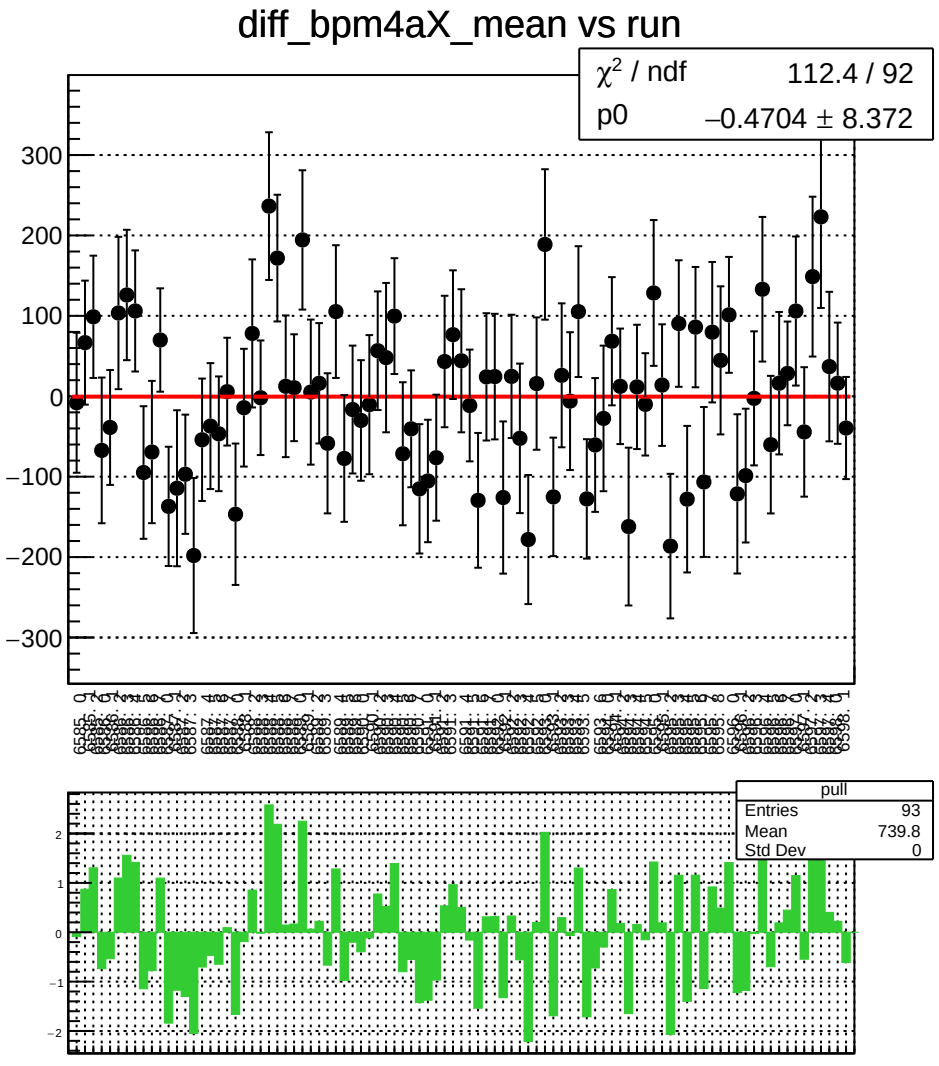

yield_bpm0r05X_mean vs run
χ² / ndf 1.413e+05 / 92
p0 −0.156 ± 8.865e−05
pull
Entries 93
Mean −60.77
Std Dev 0
pull1D
Entries 93
Mean −0.7513
Std Dev 4.878

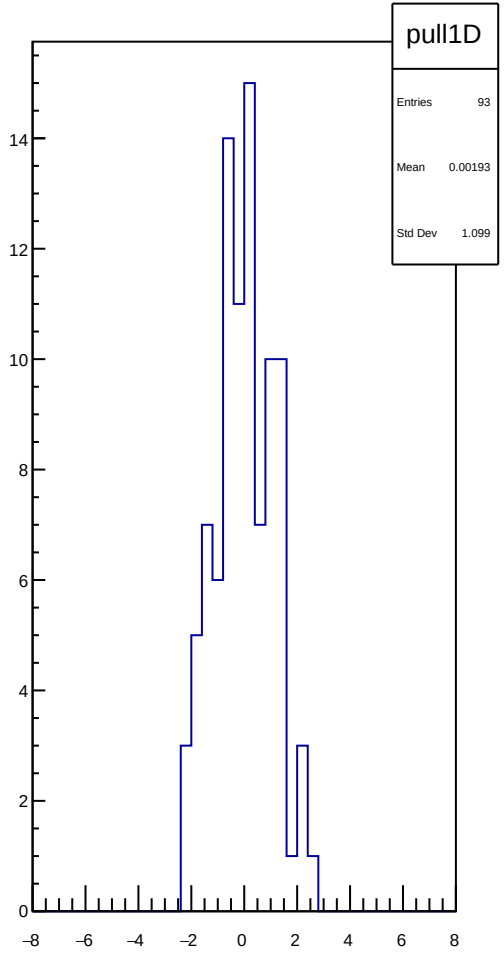

yield_bpm0r05X_rms vs run
χ² / ndf 3.838e+04 / 92
p0 0.0825 ± 6.269e−05
0.5
0.4
0.3
0.2
0.1

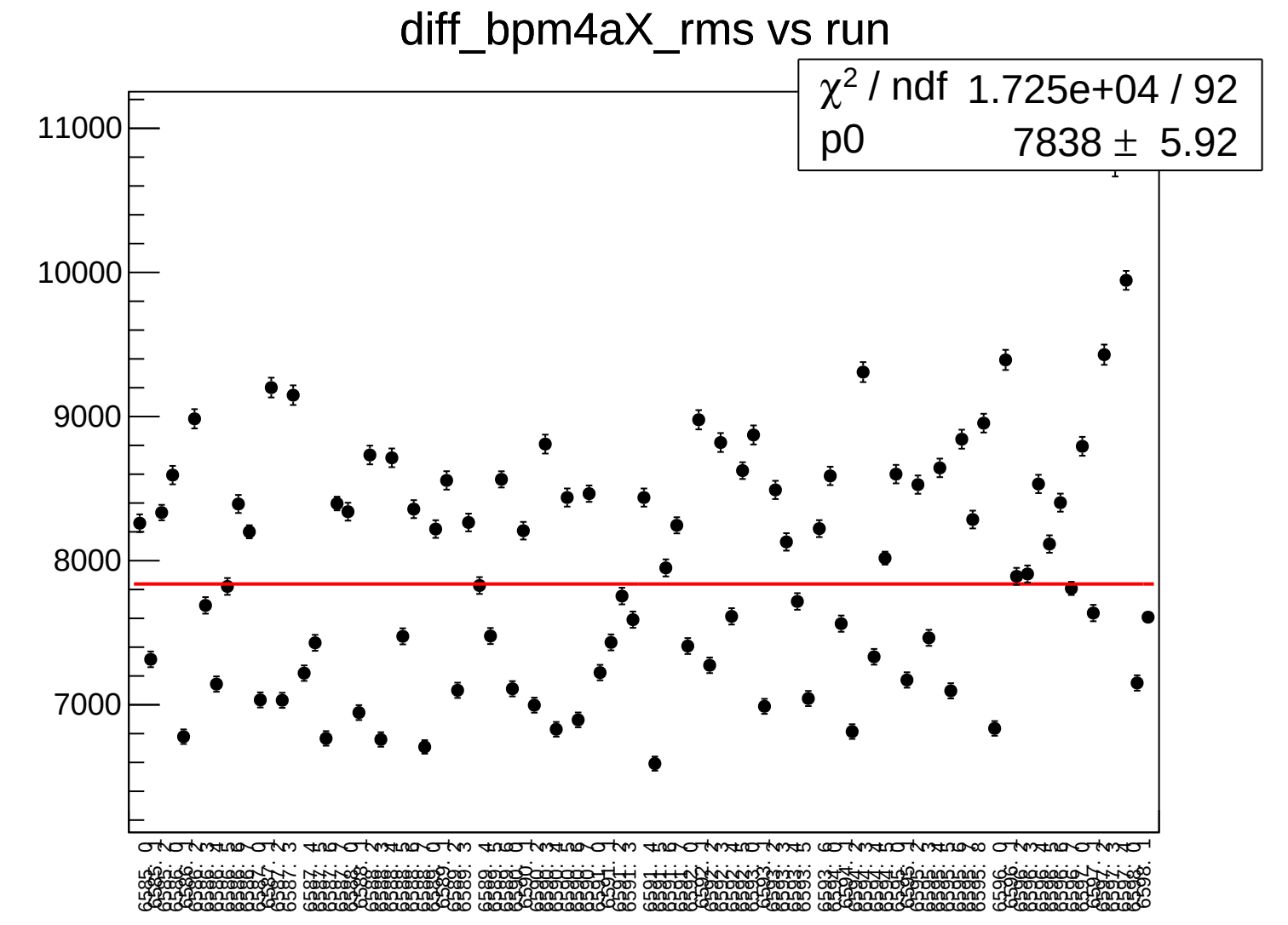

yield_bpm0r05Y_mean vs run
χ² / ndf 7.083e+06 / 92
p0 1.698 ± 1.285e−05
1.8
1.7
1.6
1.5
1.4
1.3
pull
Entries 93
Mean −62.9
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

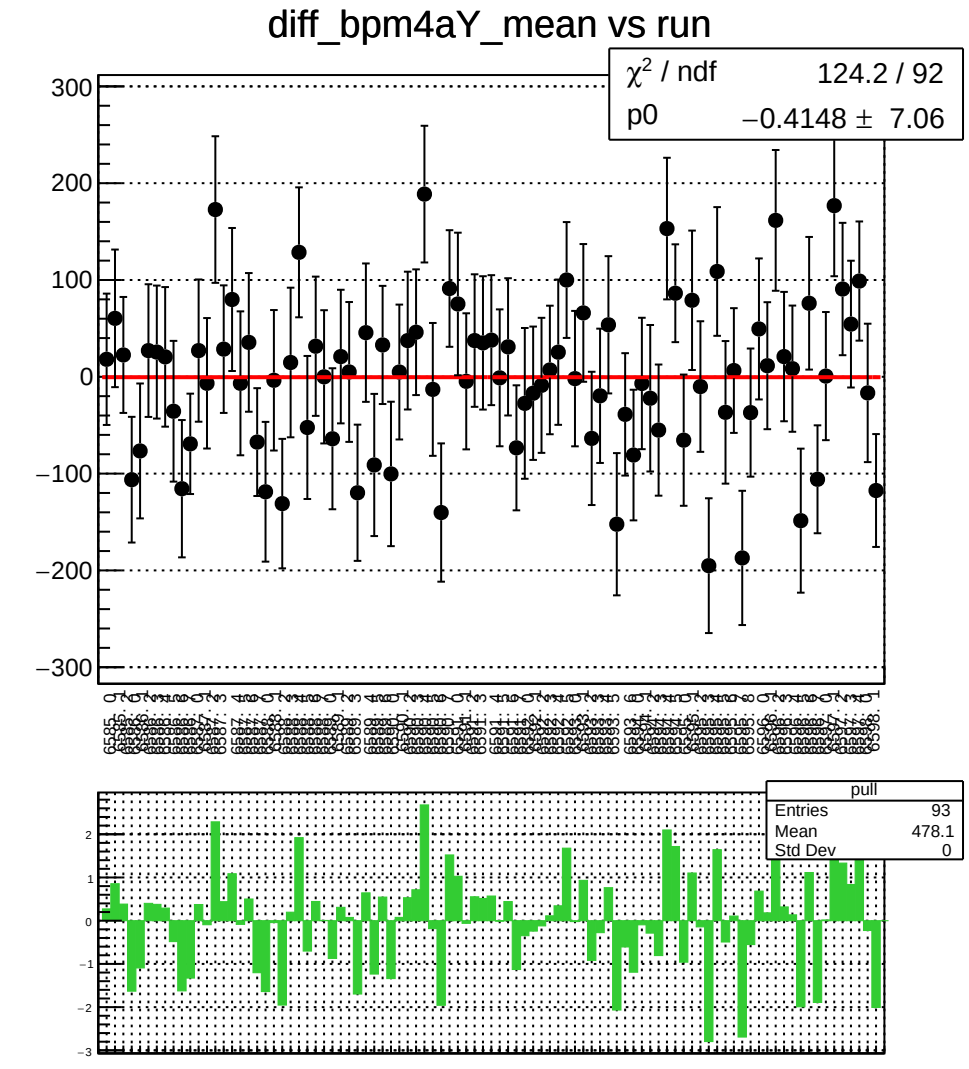

pull1D
Entries 93
Mean −1.584
Std Dev 6.511
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

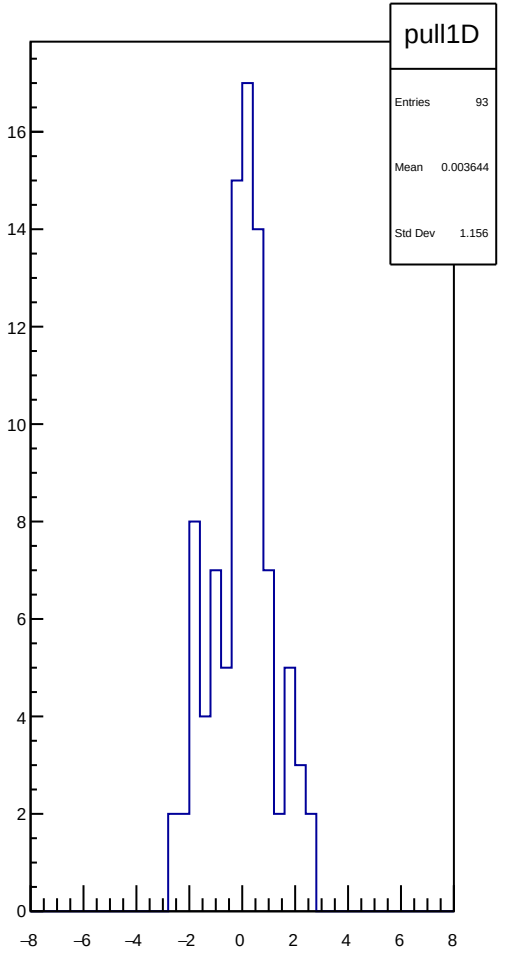

yield_bpm0r05Y_rms vs run
χ² / ndf 2.235e+05 / 92
p0 0.0113 ± 9.086e−06
0.3
0.25
0.2
0.15
0.1
0.05

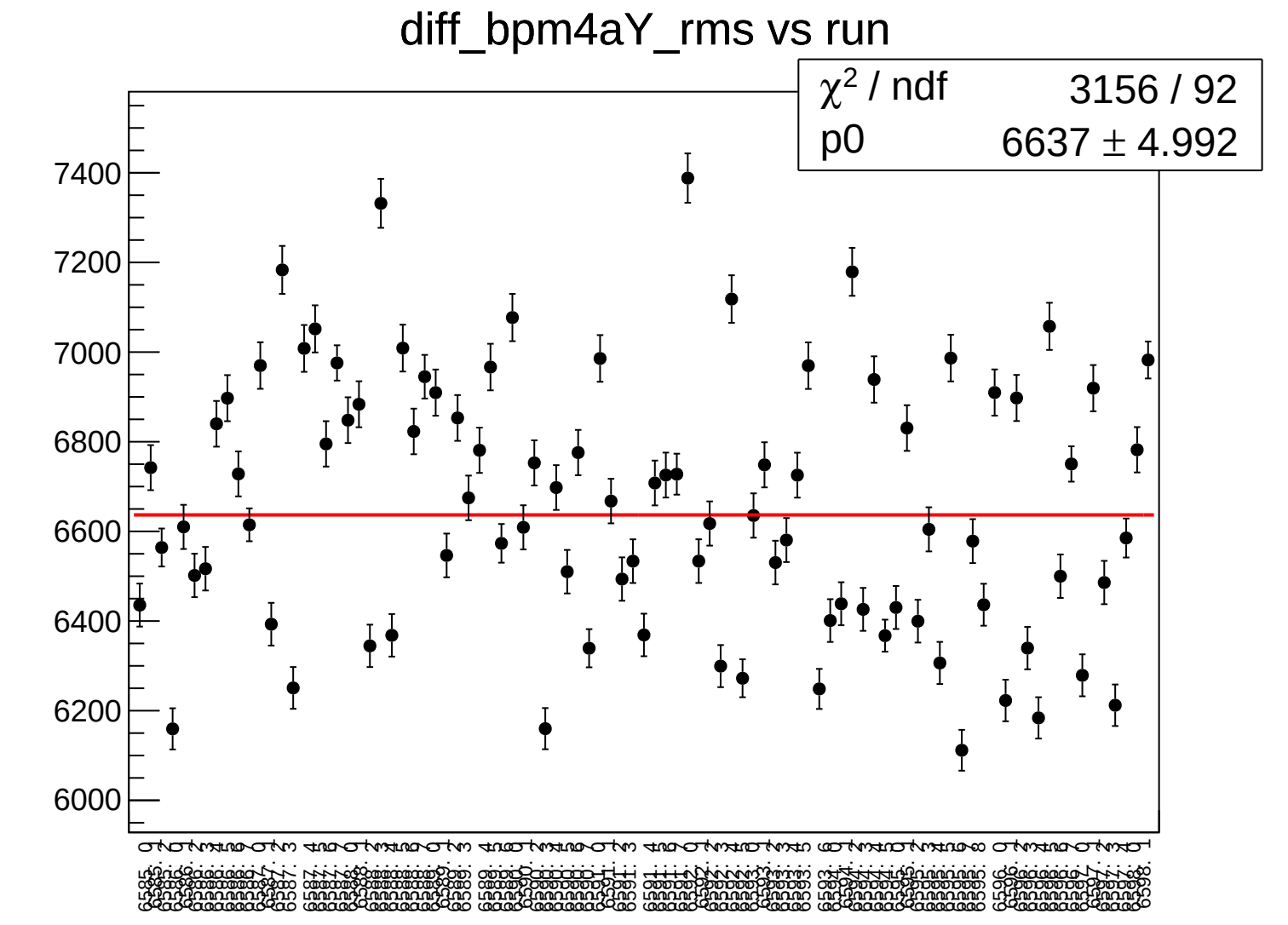

diff_bpm4aX_mean vs run
χ² / ndf 112.4 / 92
p0 −0.4704 ± 8.372
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 739.8
Std Dev 0
2
1
0
−1
−2

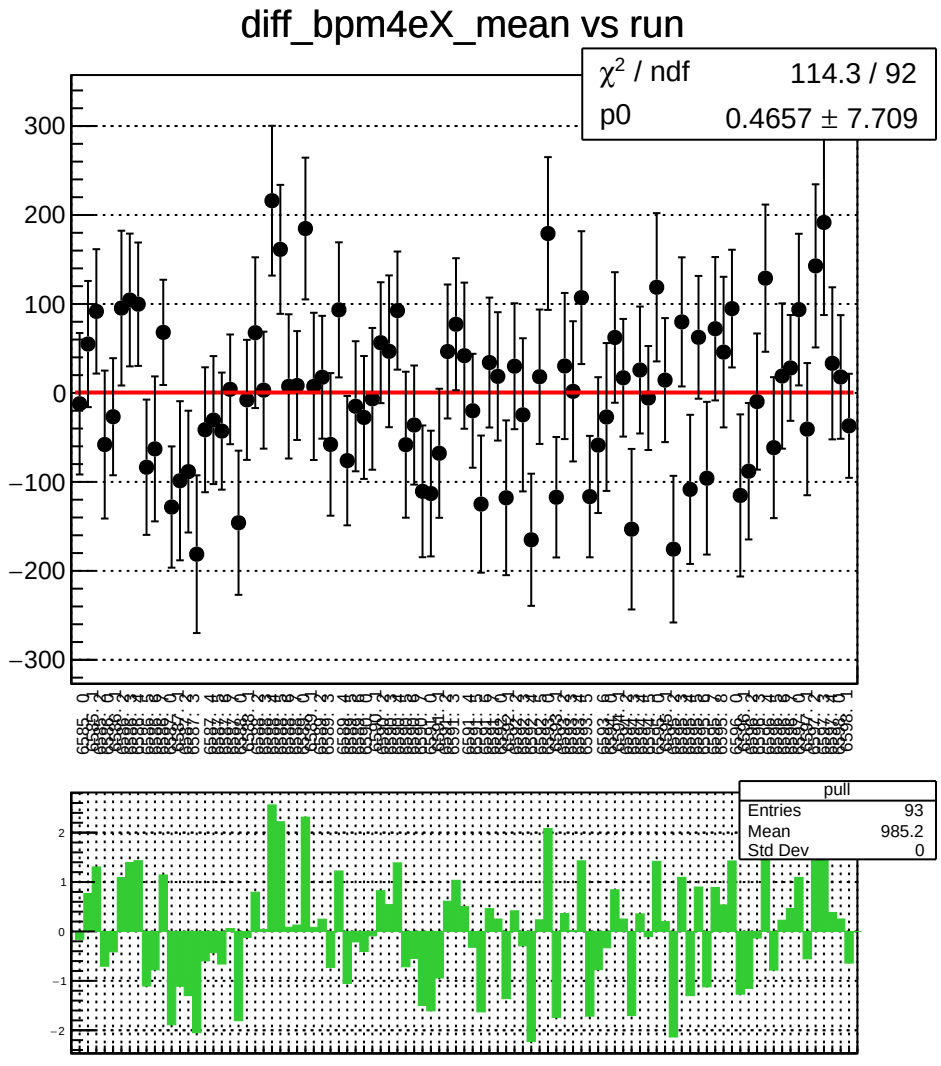

pull1D
Entries 93
Mean 0.00193
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

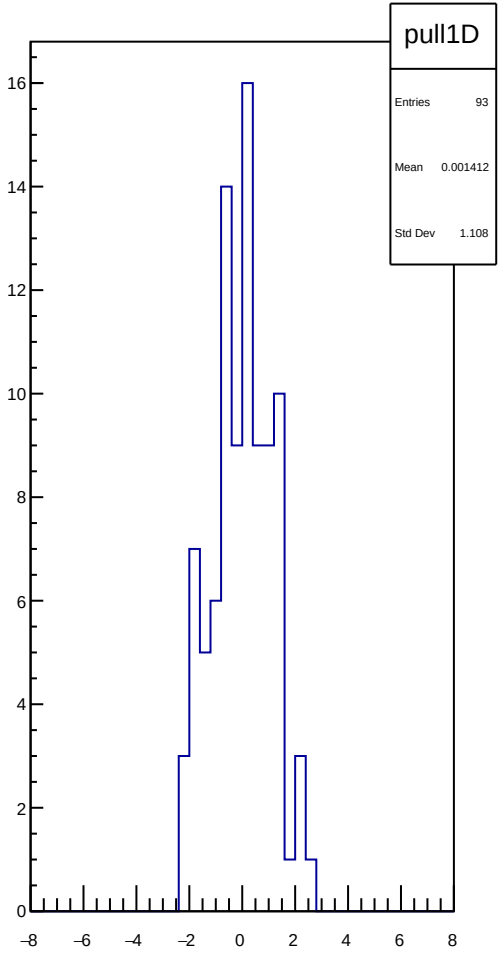

diff_bpm4aX_rms vs run
χ^2 / ndf 1.725e+04 / 92
p0 7838 ± 5.92
11000
10000
9000
8000
7000

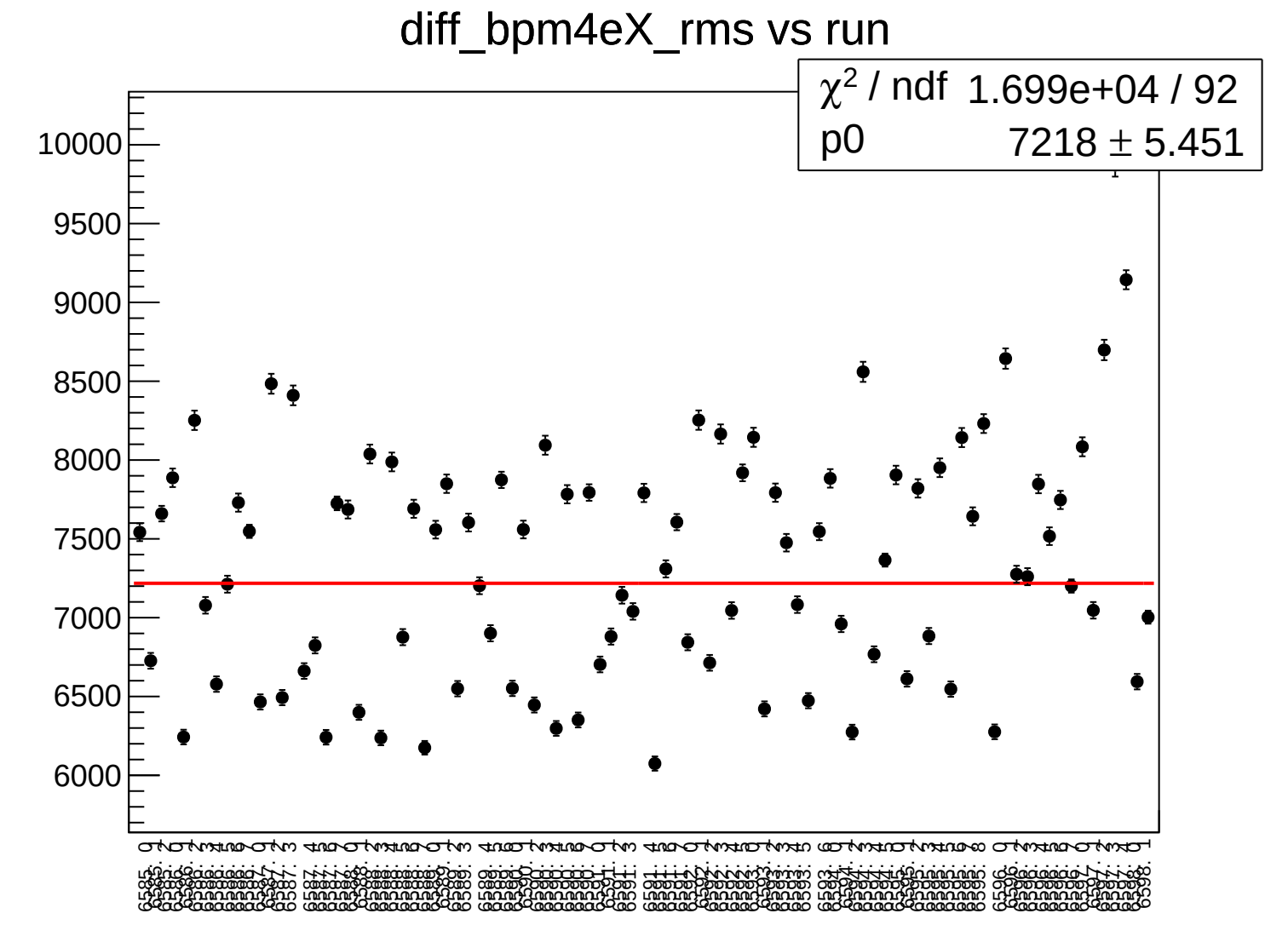

diff_bpm4aY_mean vs run
χ² / ndf 124.2 / 92
p0 −0.4148 ± 7.06
pull
Entries 93
Mean 478.1
Std Dev 0

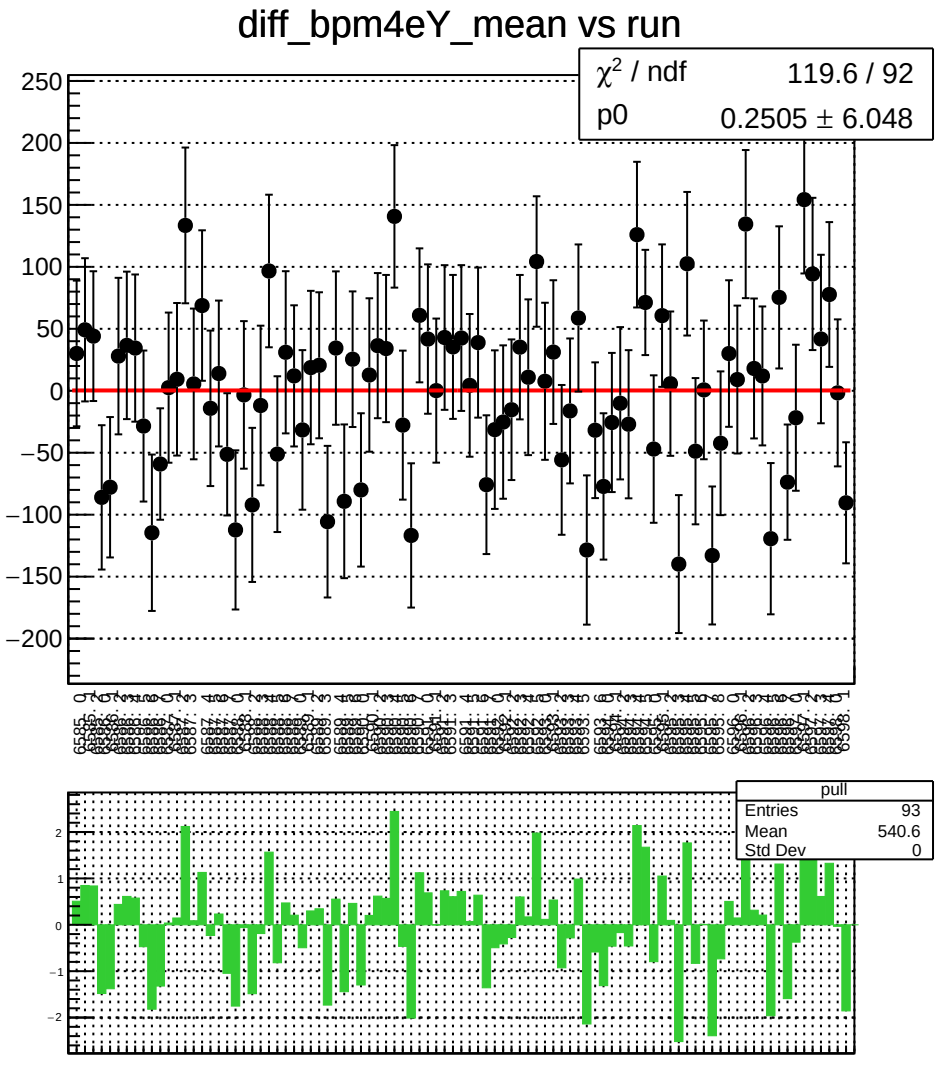

pull1D
Entries 93
Mean 0.003644
Std Dev 1.156

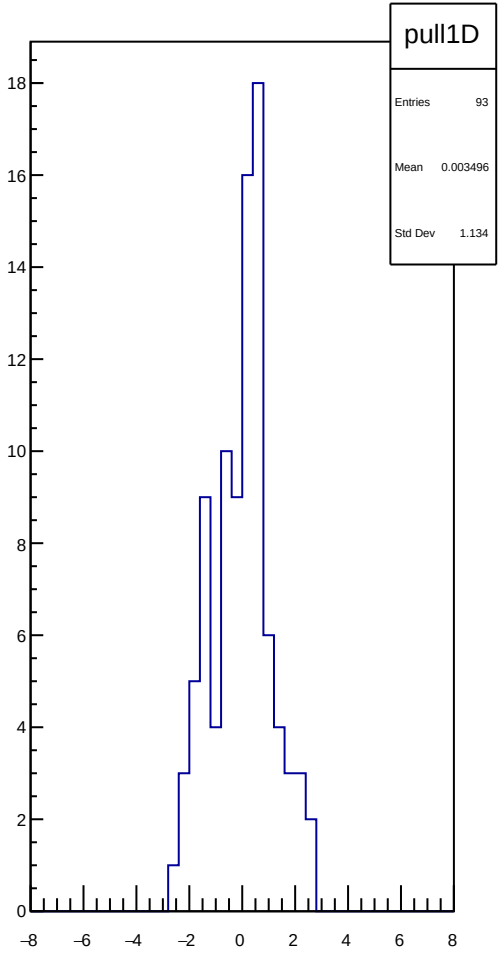

diff_bpm4aY_rms vs run
χ^2 / ndf 3156 / 92
p0 6637 ± 4.992
7400
7200
7000
6800
6600
6400
6200
6000

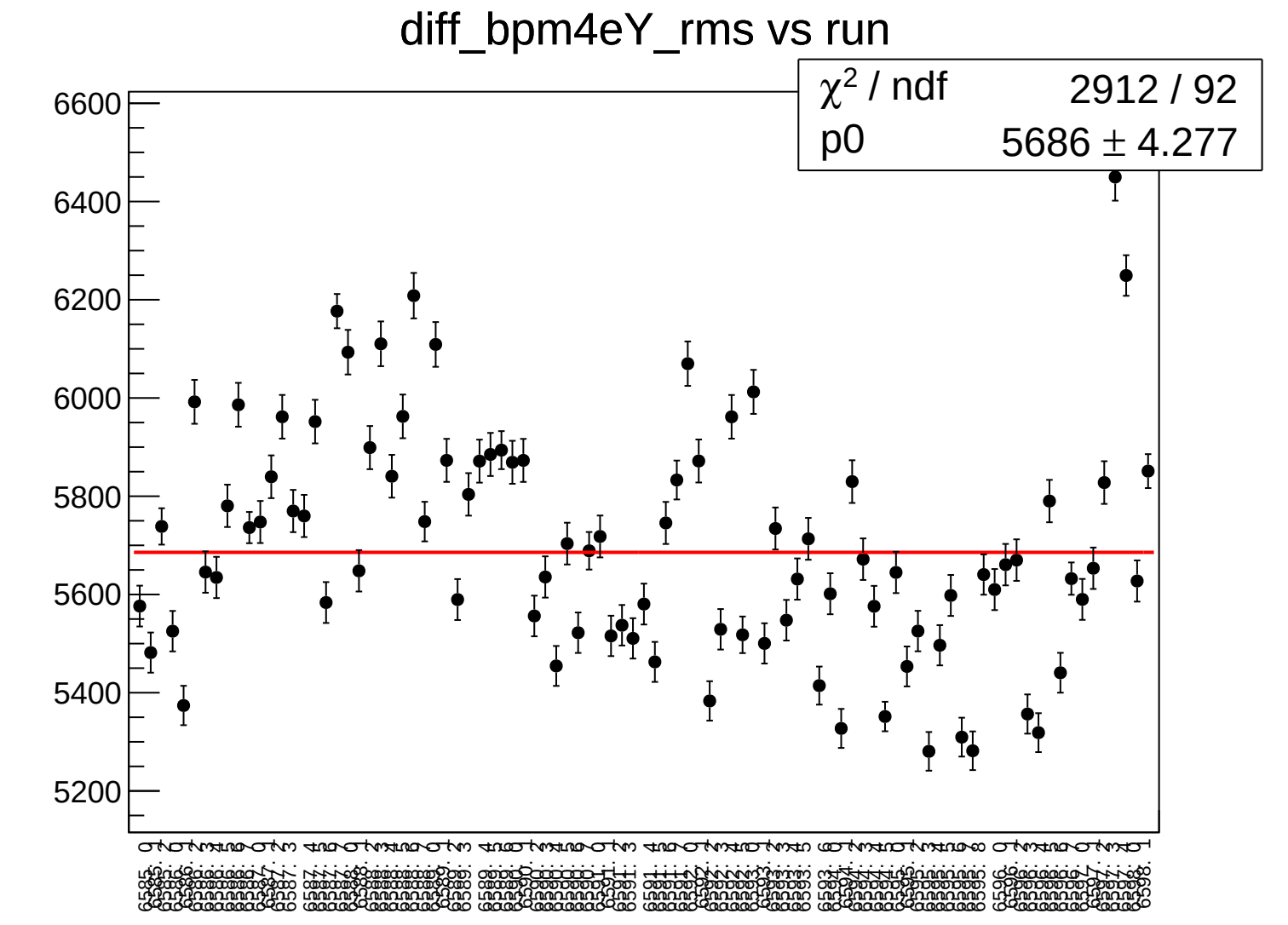

diff_bpm4eX_mean vs run
χ² / ndf 114.3 / 92
p0 0.4657 ± 7.709
pull
Entries 93
Mean 985.2
Std Dev 0

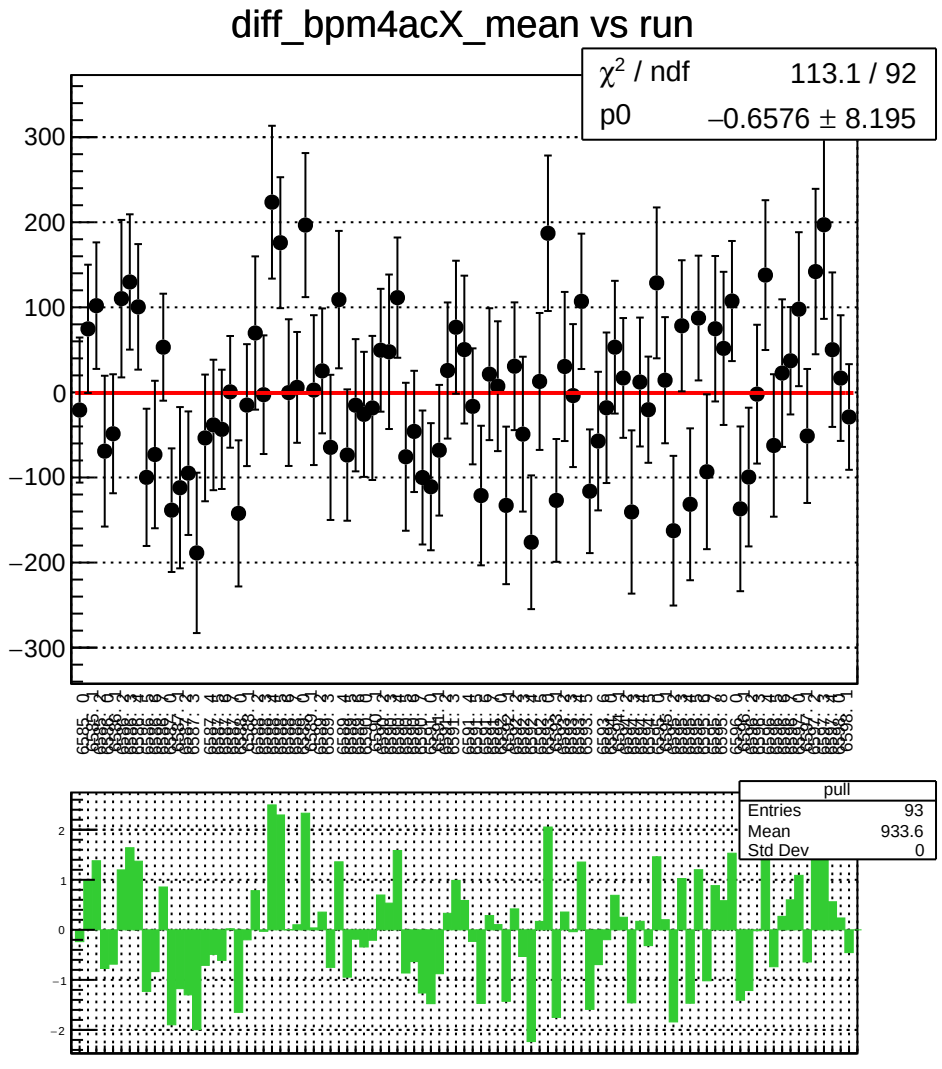

pull1D
Entries 93
Mean 0.001412
Std Dev 1.108

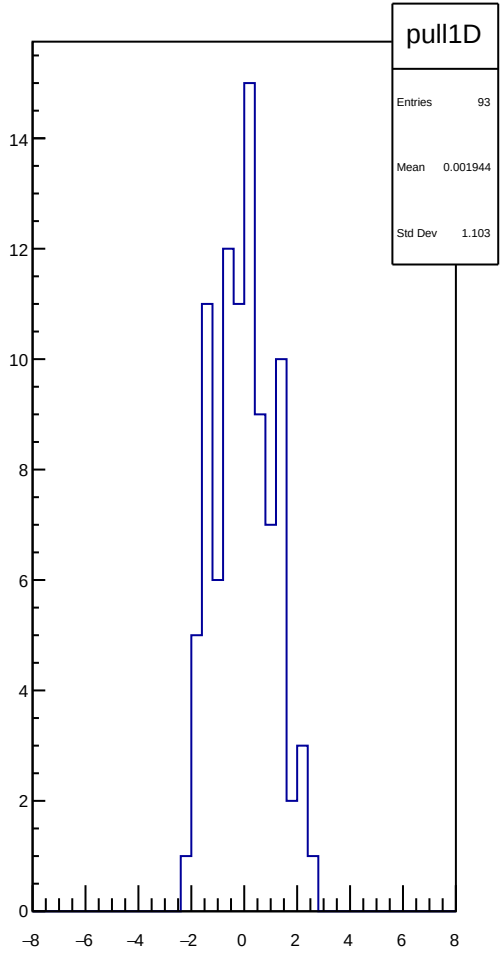

diff_bpm4eX_rms vs run
χ² / ndf 1.699e+04 / 92
p0 7218 ± 5.451
10000
9500
9000
8500
8000
7500
7000
6500
6000

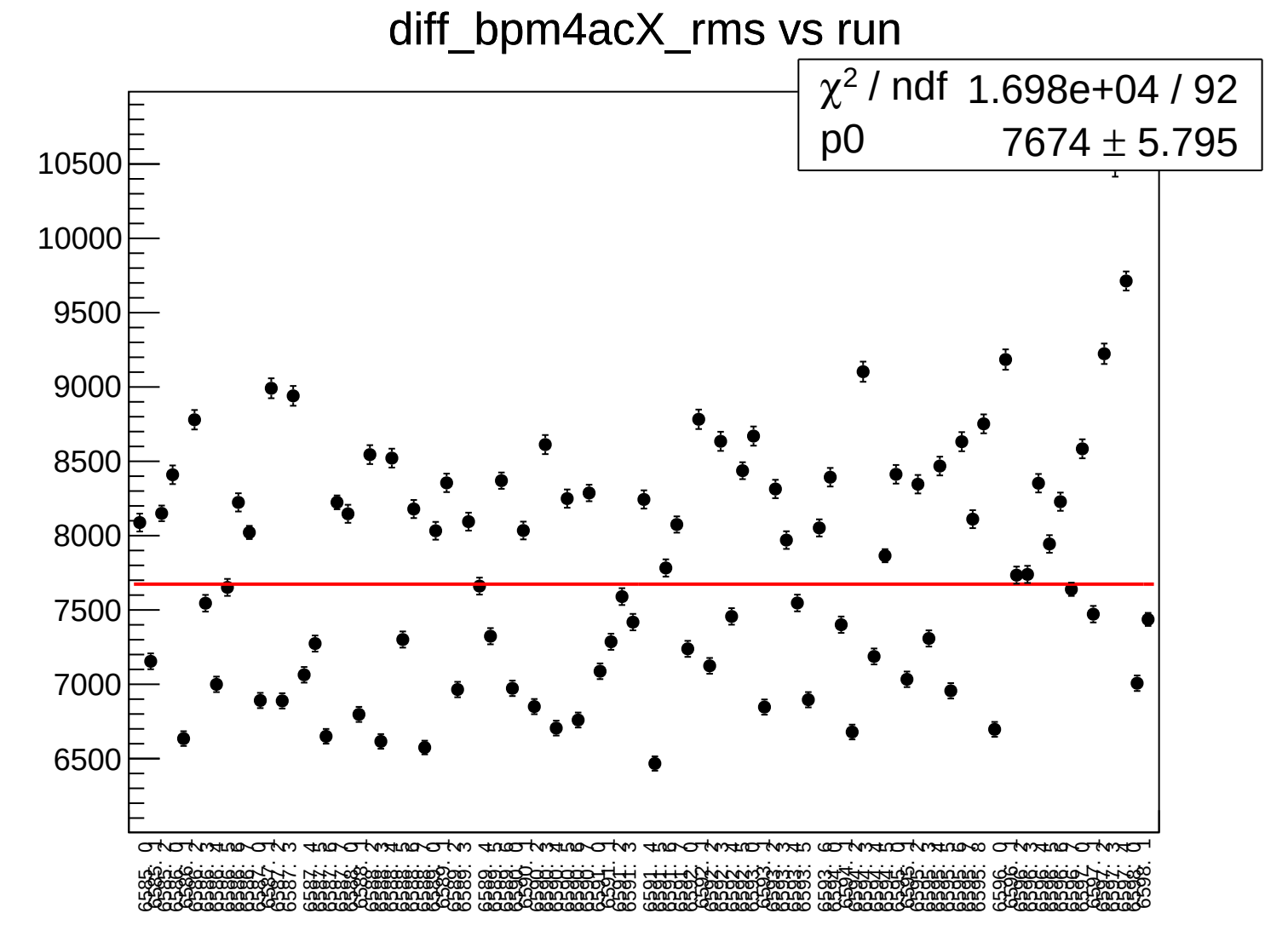

diff_bpm4eY_mean vs run
χ² / ndf 119.6 / 92
p0 0.2505 ± 6.048
pull
Entries 93
Mean 540.6
Std Dev 0

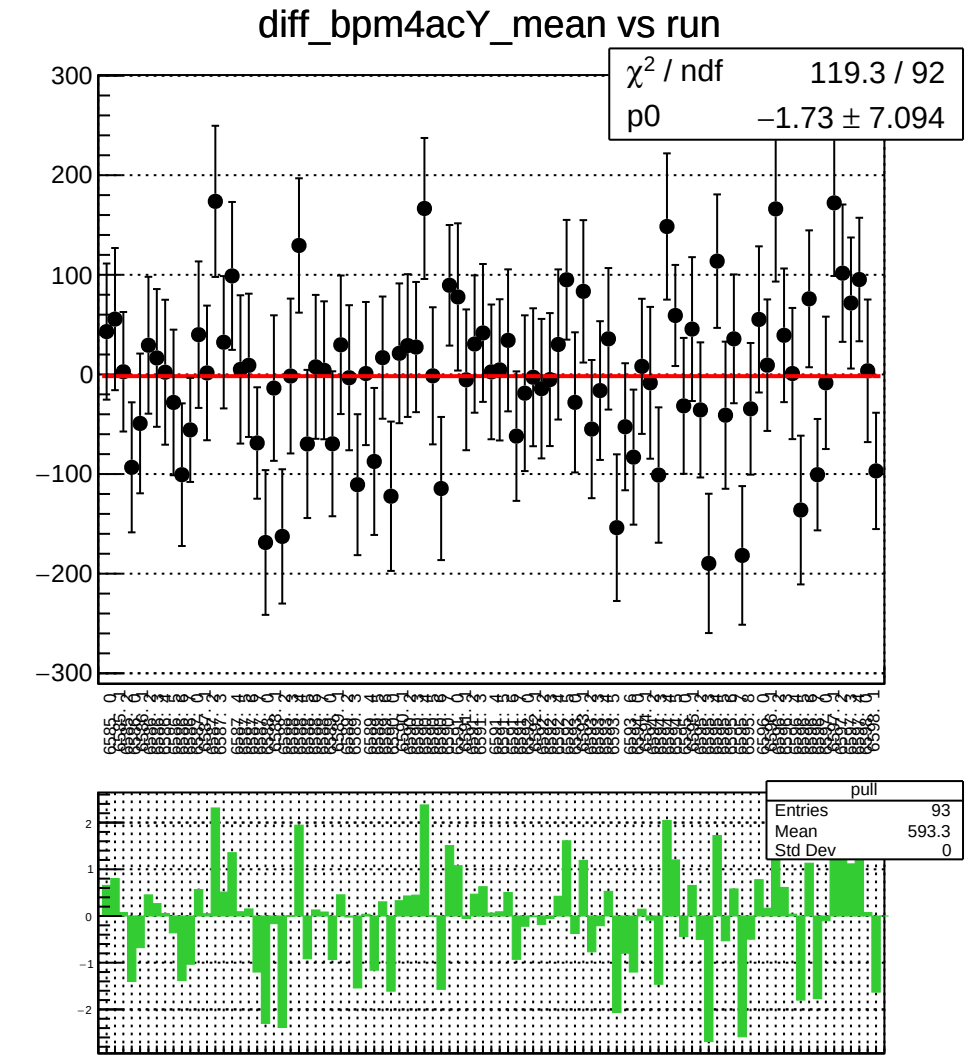

pull1D
Entries 93
Mean 0.003496
Std Dev 1.134

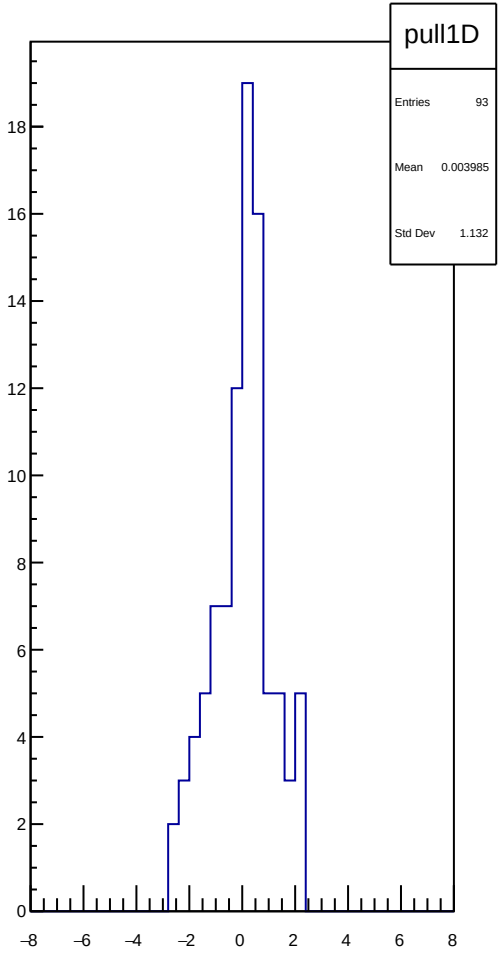

diff_bpm4eY_rms vs run
χ² / ndf 2912 / 92
p0 5686 ± 4.277
6600
6400
6200
6000
5800
5600
5400
5200

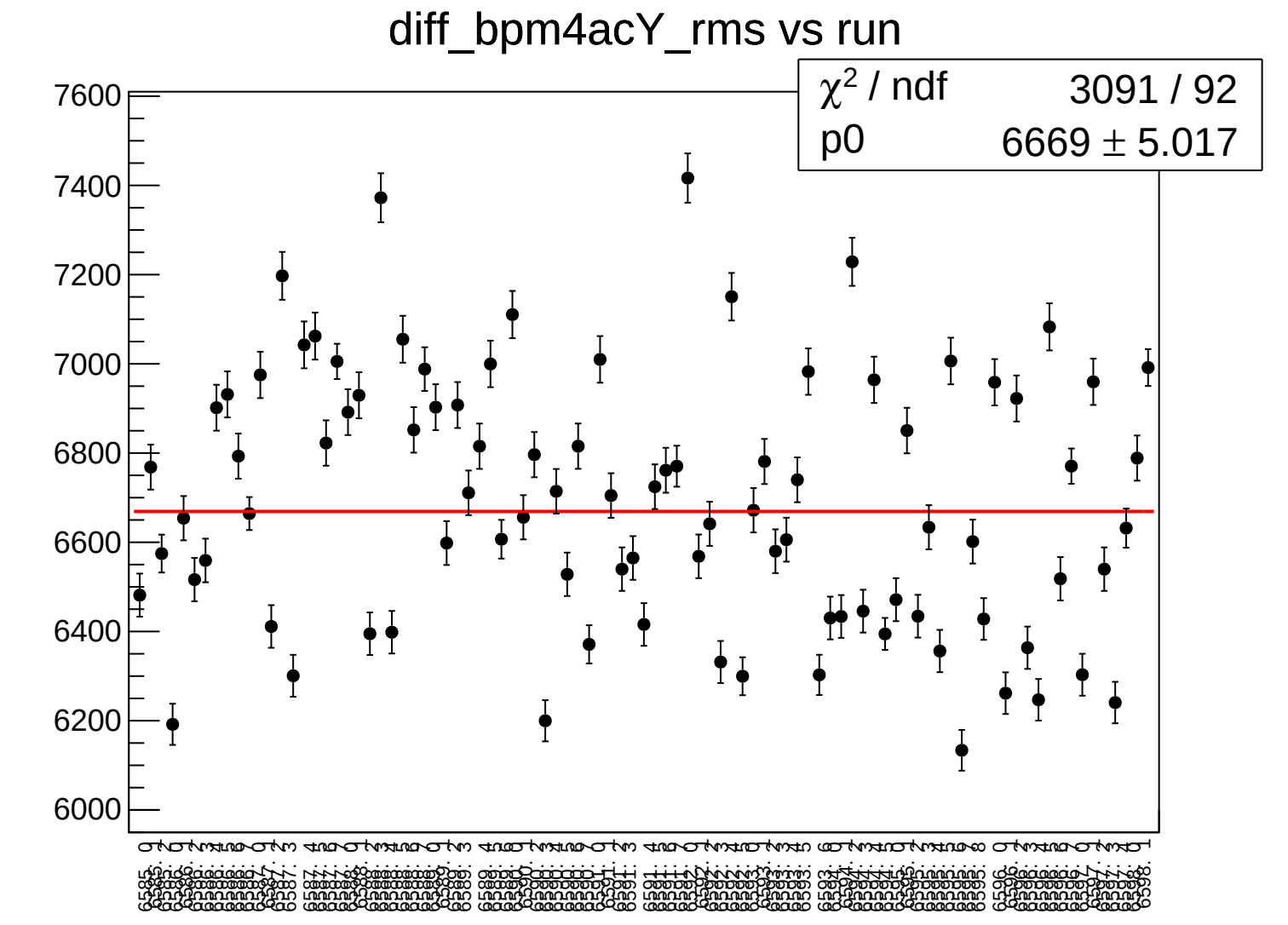

diff_bpm4acX_mean vs run
χ² / ndf 113.1 / 92
p0 −0.6576 ± 8.195
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 933.6
Std Dev 0
2
1
0
−1
−2

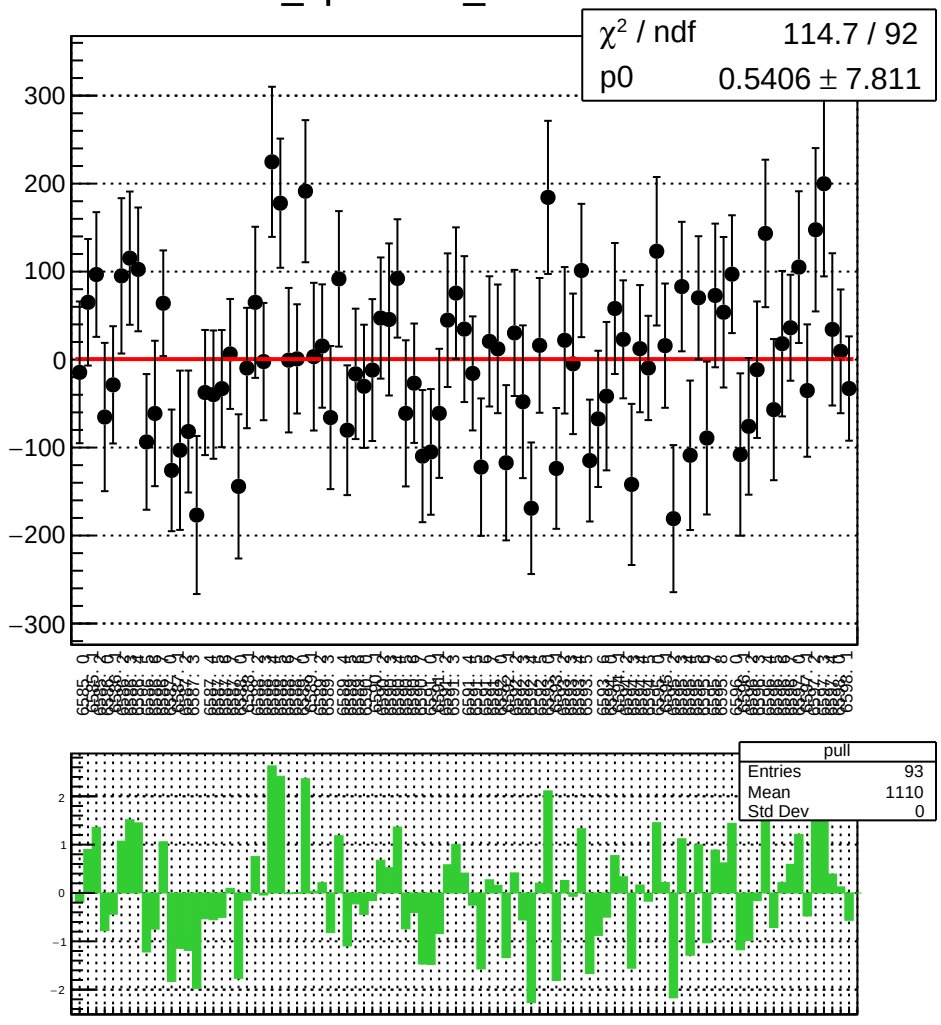

pull1D
Entries 93
Mean 0.001944
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

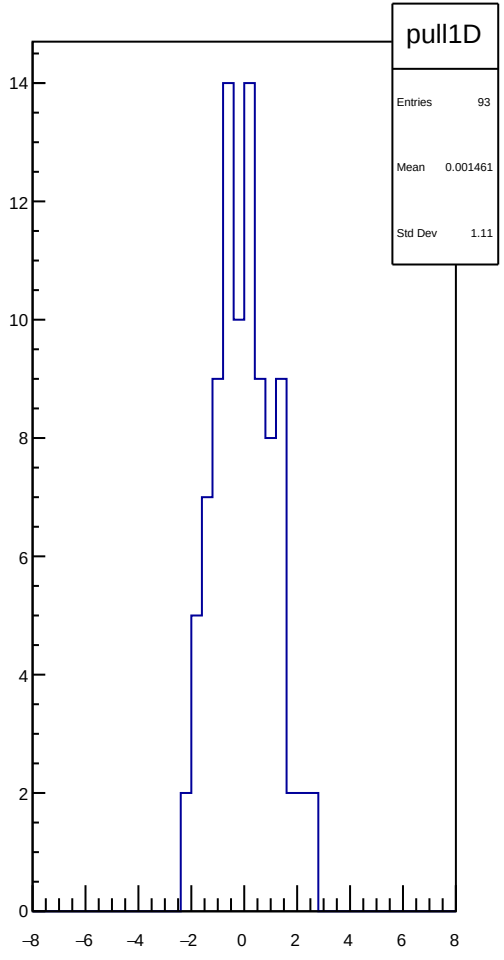

diff_bpm4acX_rms vs run
χ^2 / ndf 1.698e+04 / 92
p0 7674 ± 5.795
10500
10000
9500
9000
8500
8000
7500
7000
6500

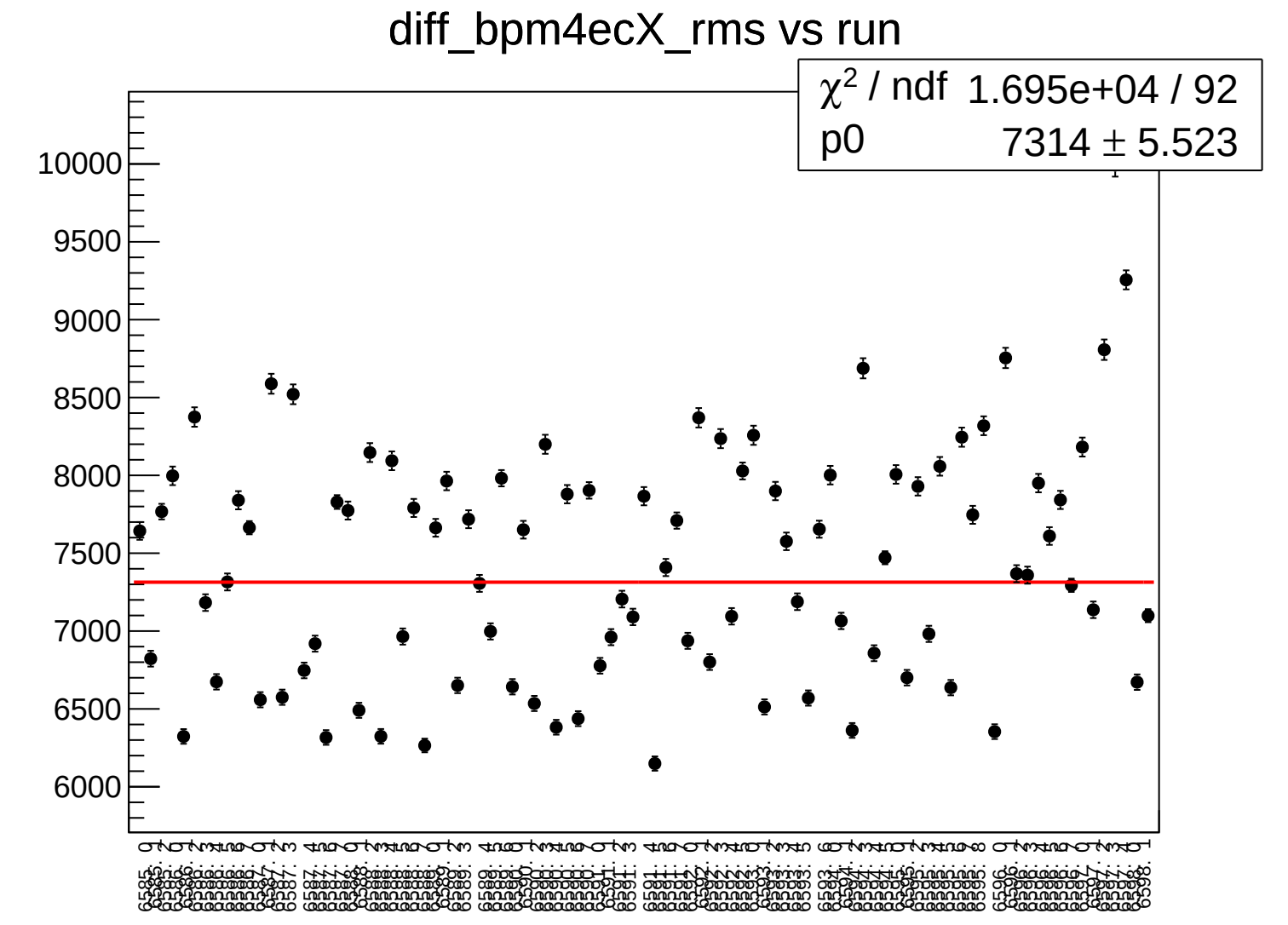

diff_bpm4acY_mean vs run
χ² / ndf 119.3 / 92
p0 −1.73 ± 7.094
pull
Entries 93
Mean 593.3
Std Dev 0

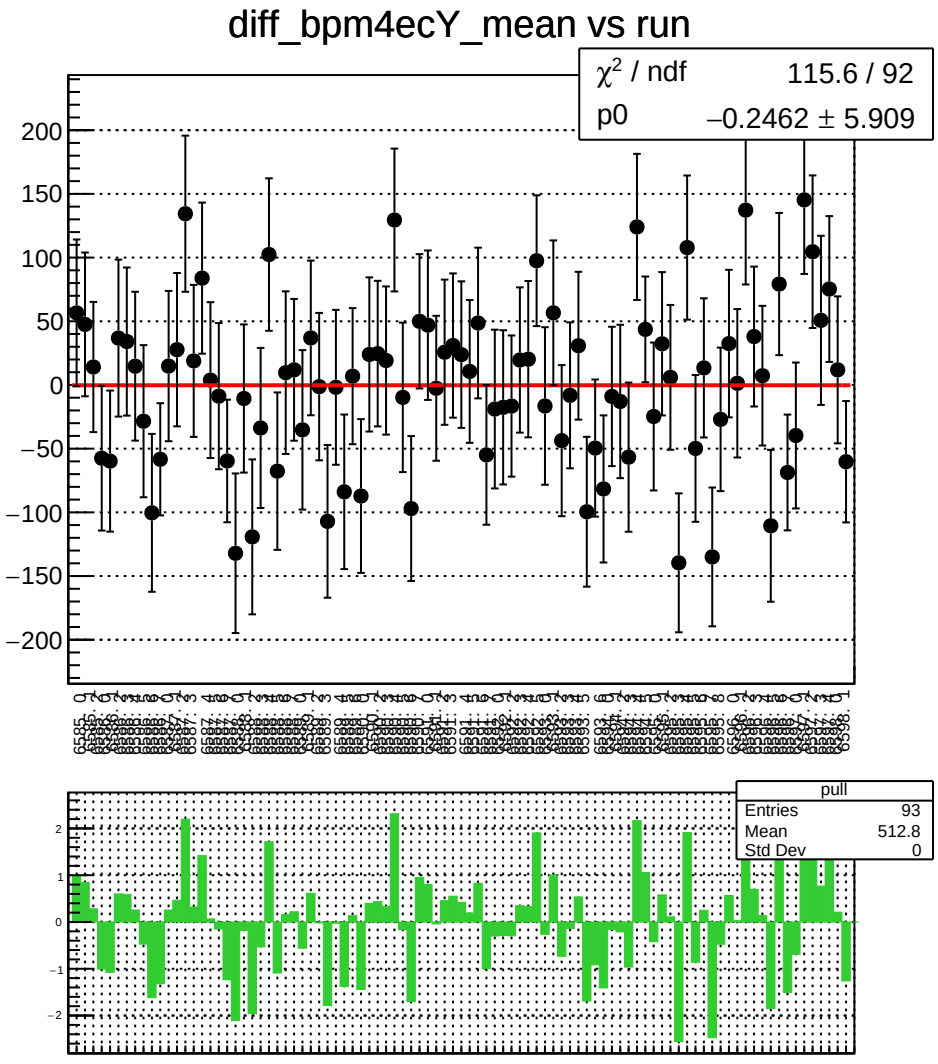

pull1D
Entries 93
Mean 0.003985
Std Dev 1.132

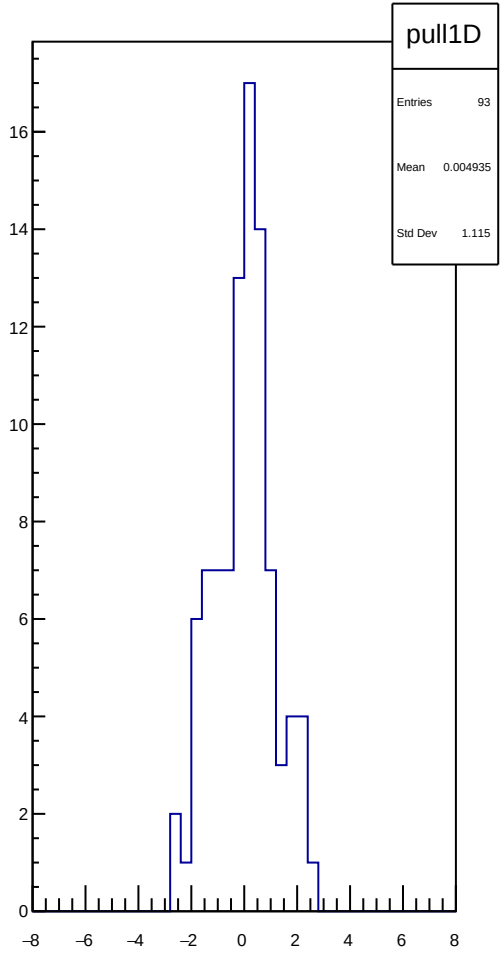

diff_bpm4acY_rms vs run
χ^2 / ndf 3091 / 92
p0 6669 ± 5.017
7600
7400
7200
7000
6800
6600
6400
6200
6000

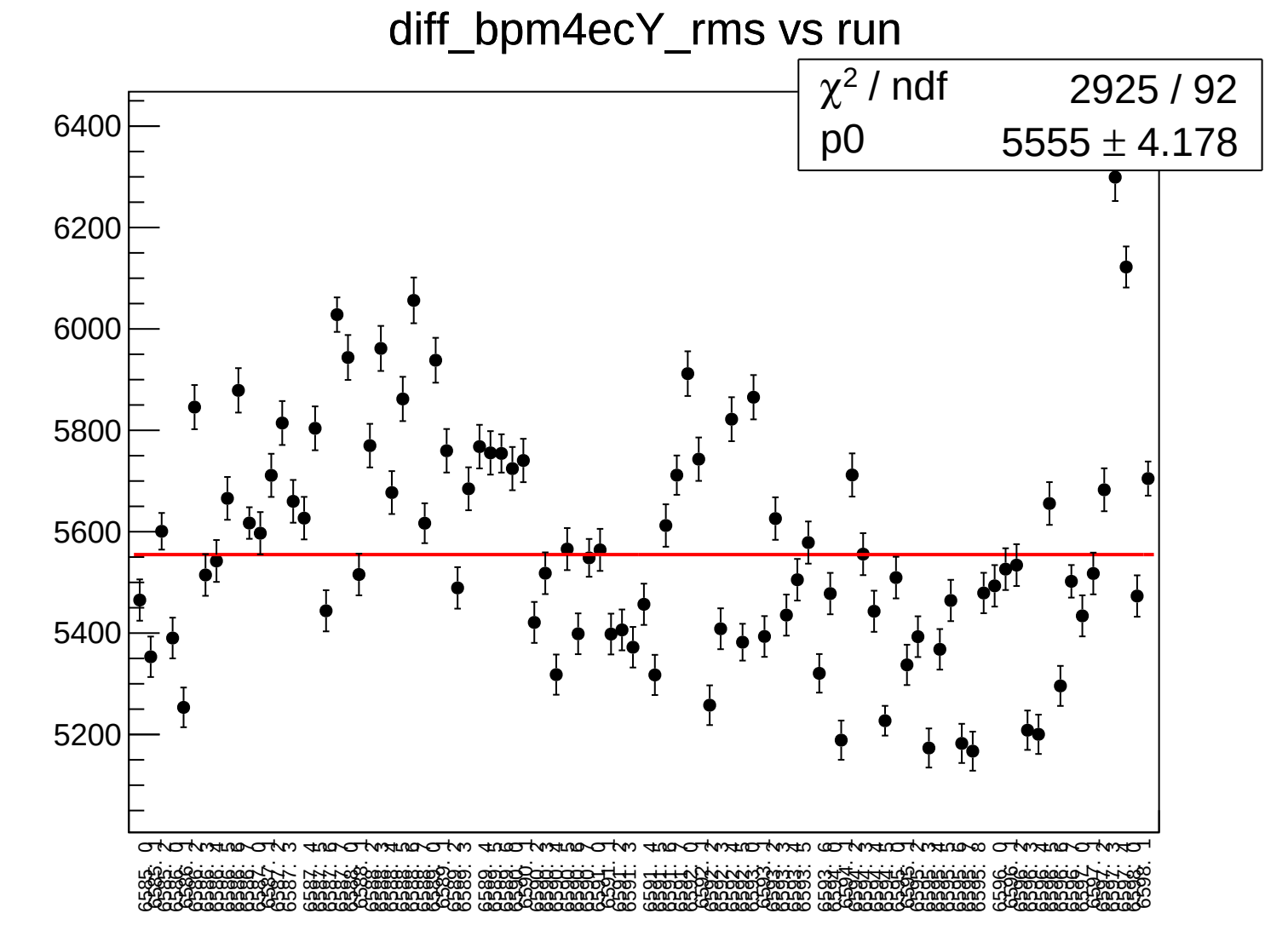

diff_bpm4ecX_mean vs run
χ² / ndf 114.7 / 92
p0 0.5406 ± 7.811
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 1110
Std Dev 0
2
1
0
−1
−2

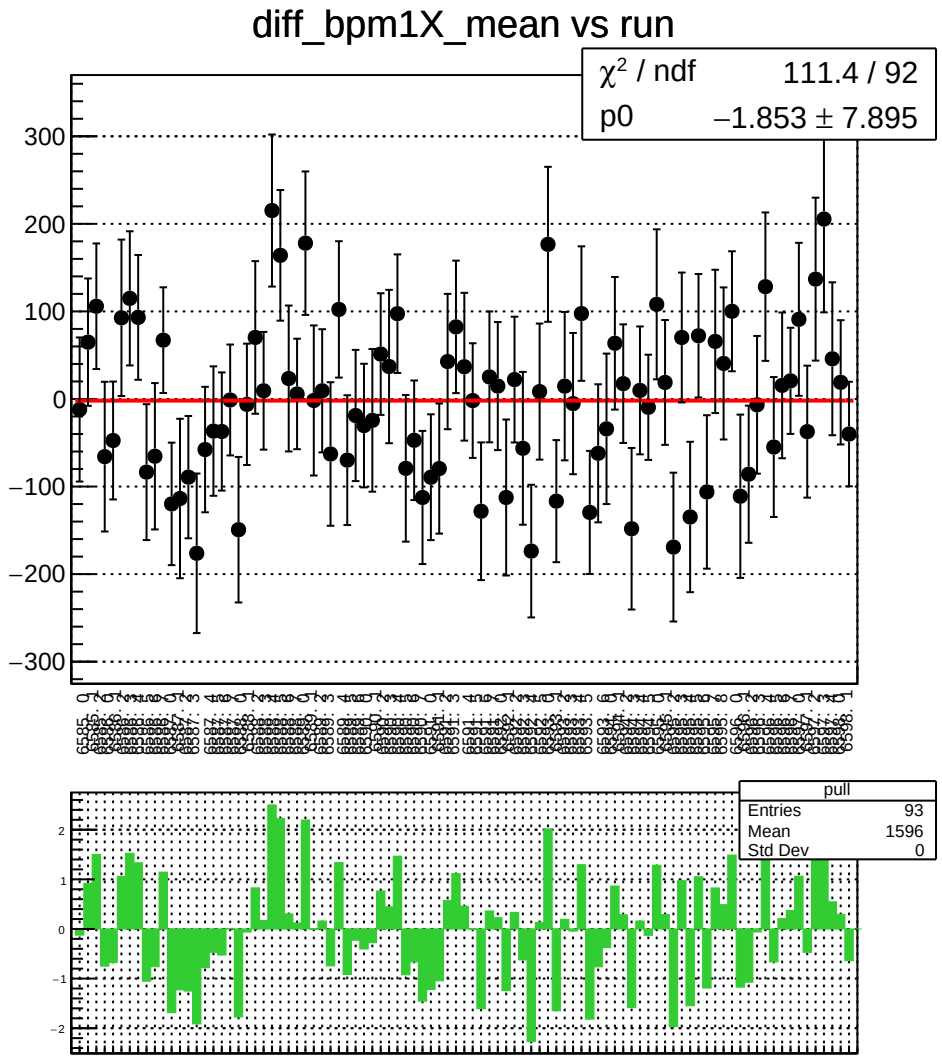

pull1D
Entries 93
Mean 0.001461
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

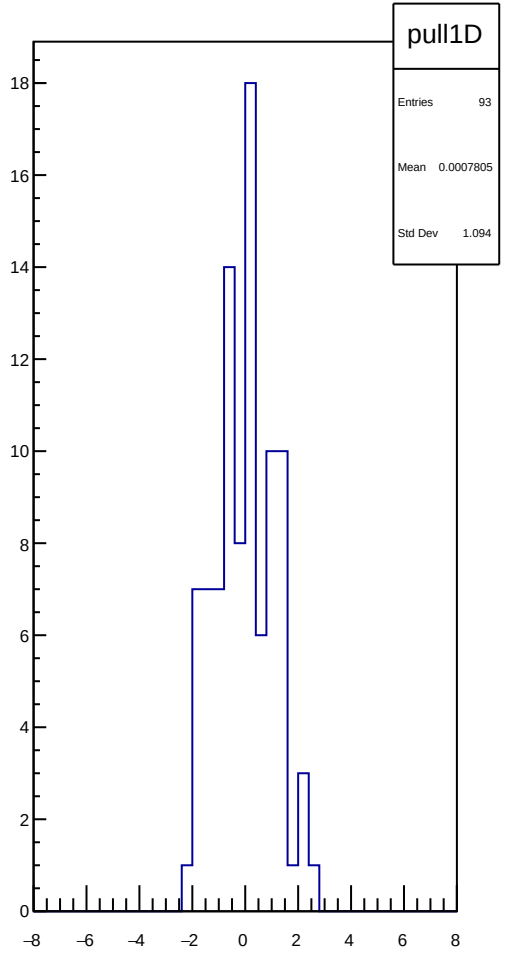

diff_bpm4ecX_rms vs run
χ^2 / ndf 1.695e+04 / 92
p0 7314 ± 5.523
10000
9500
9000
8500
8000
7500
7000
6500
6000

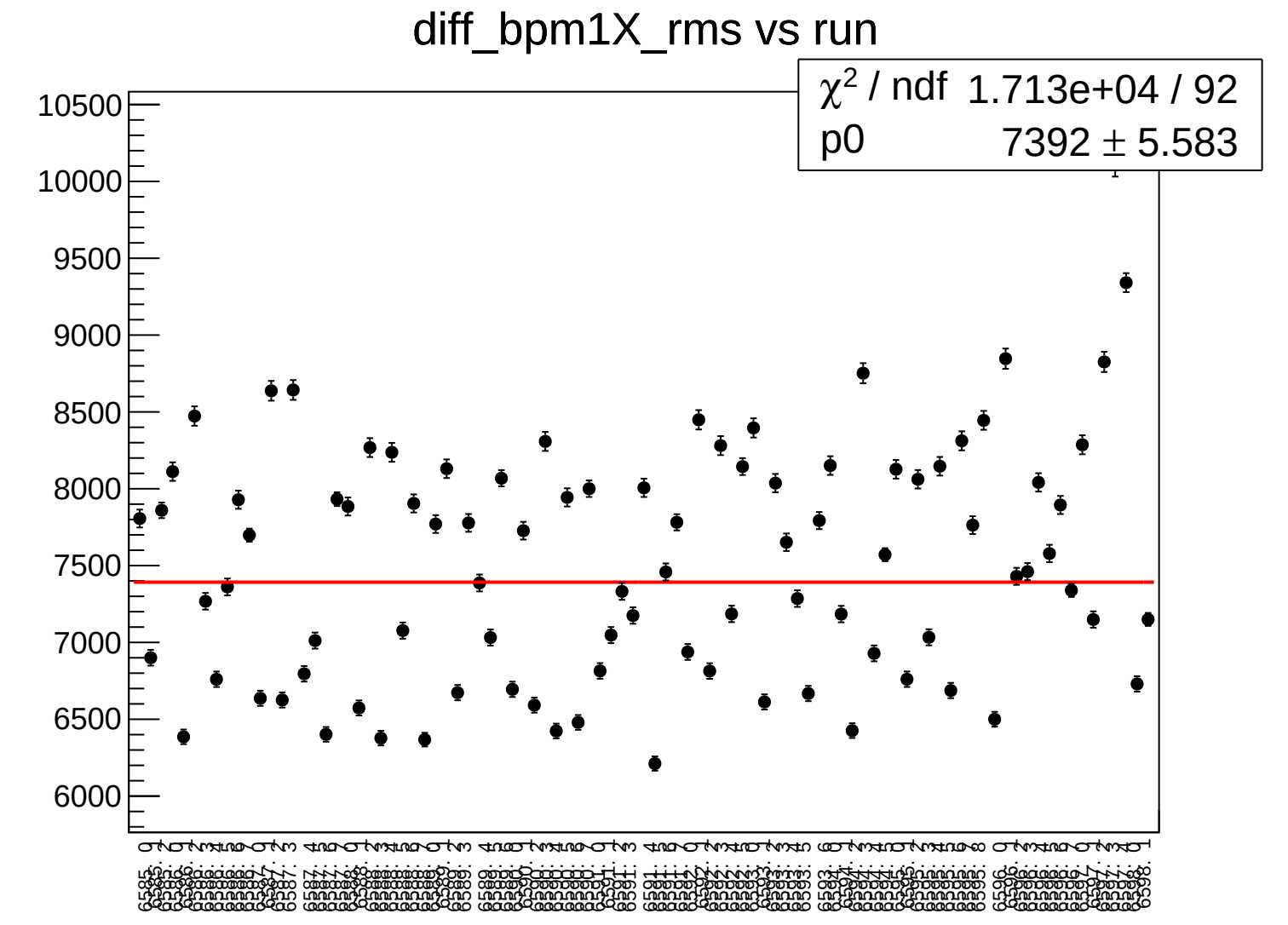

diff_bpm4ecY_mean vs run
χ² / ndf 115.6 / 92
p0 −0.2462 ± 5.909
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 512.8
Std Dev 0
2
1
0
−1
−2

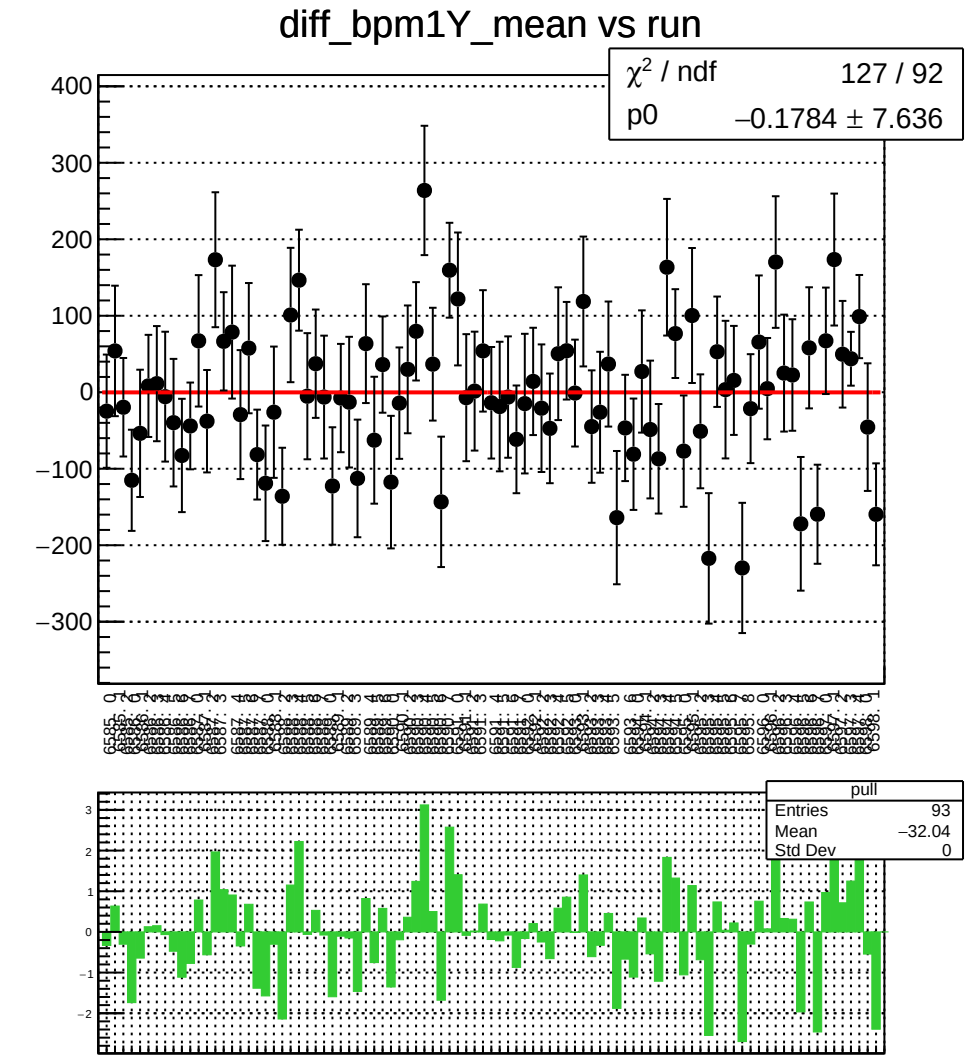

pull1D
Entries 93
Mean 0.004935
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

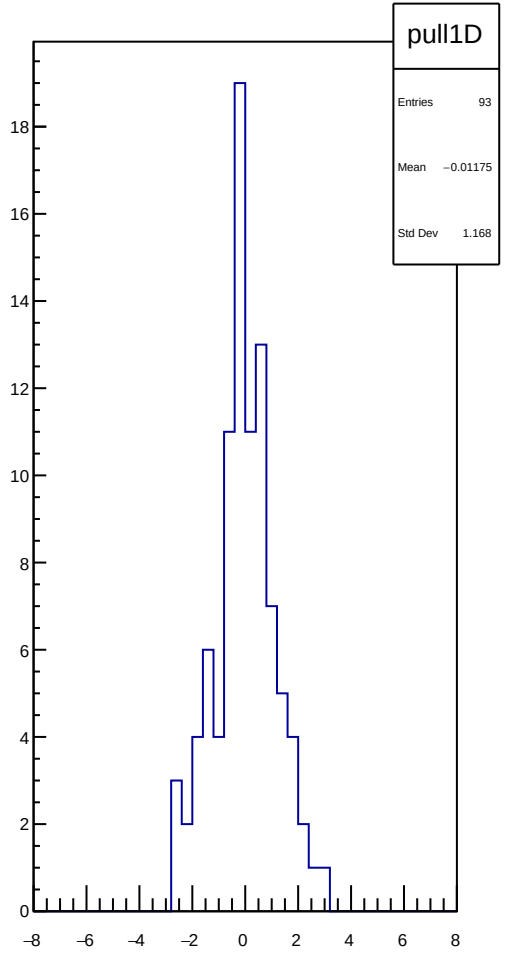

diff_bpm4ecY_rms vs run
χ² / ndf 2925 / 92
p0 5555 ± 4.178
6400
6200
6000
5800
5600
5400
5200

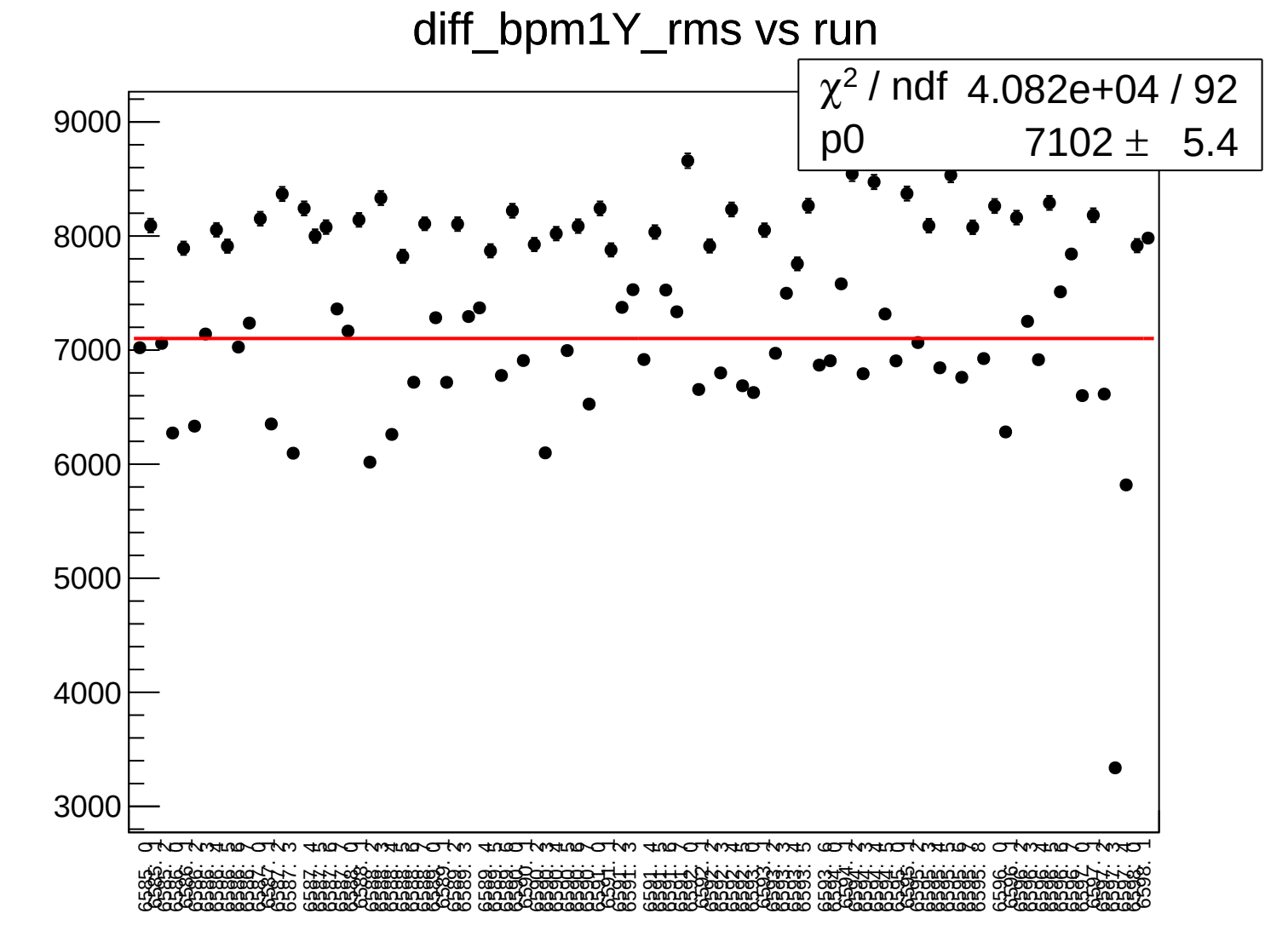

diff_bpm1X_mean vs run
χ² / ndf 111.4 / 92
p0 −1.853 ± 7.895
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 1596
Std Dev 0
2
1
0
−1
−2

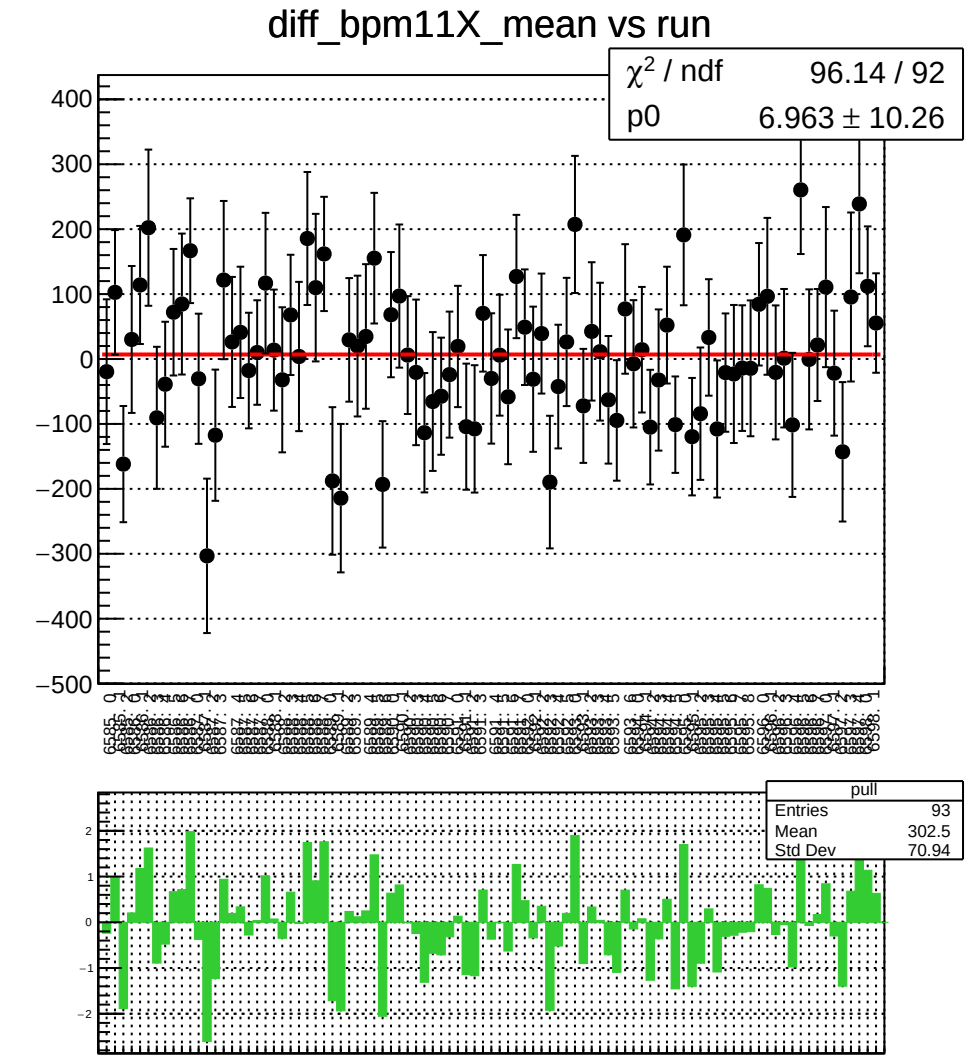

pull1D
Entries 93
Mean 0.0007805
Std Dev 1.094
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

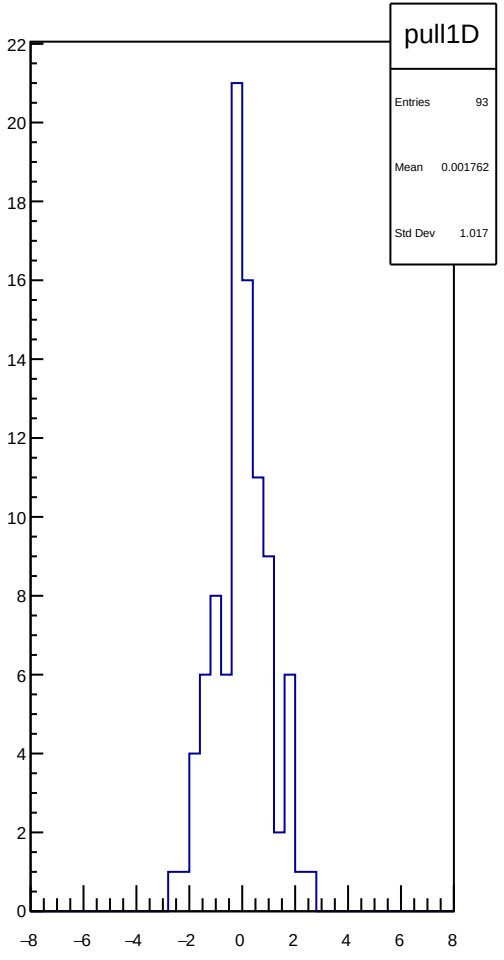

diff_bpm1X_rms vs run
χ² / ndf 1.713e+04 / 92
p0 7392 ± 5.583
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

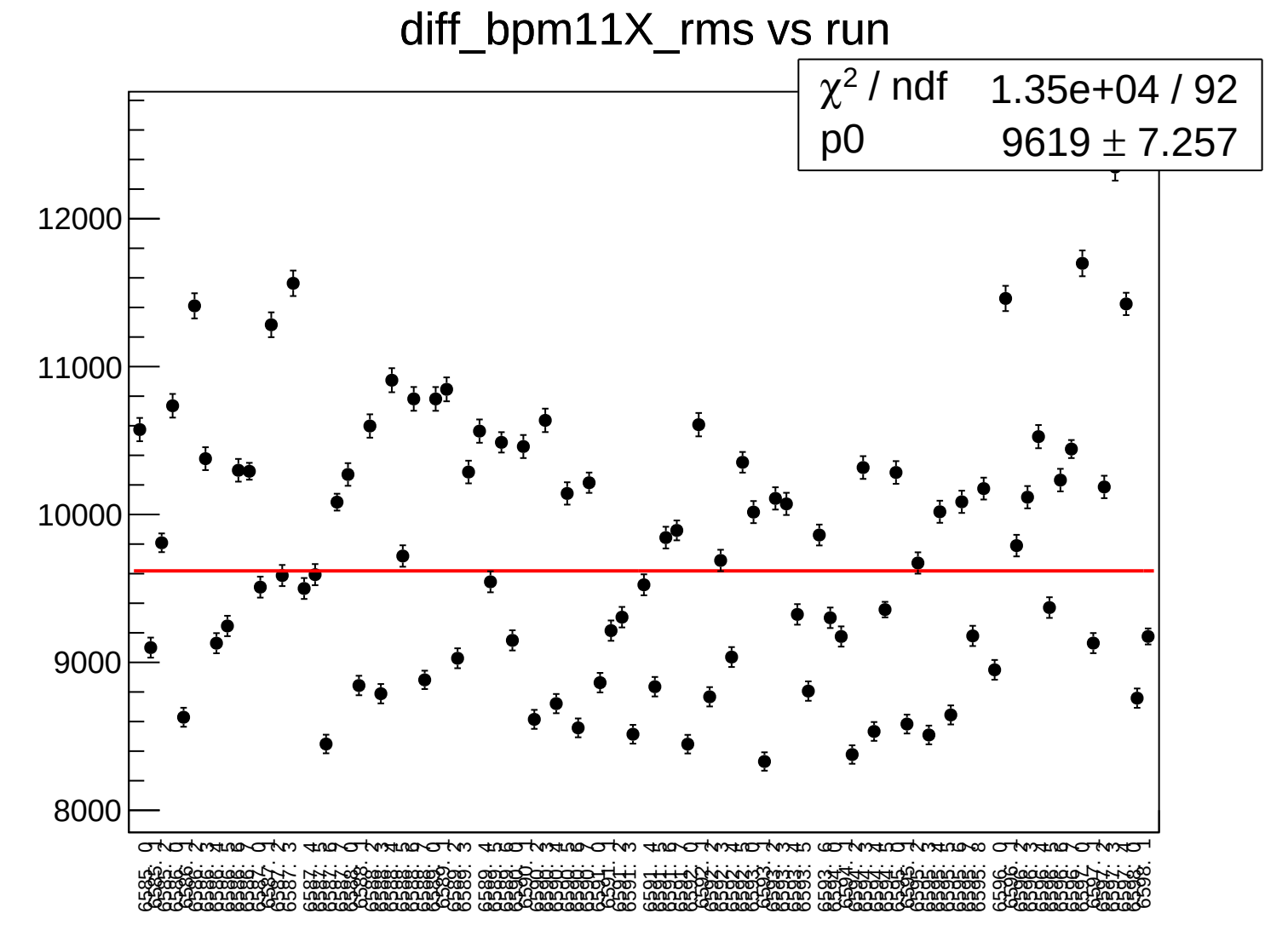

diff_bpm1Y_mean vs run
χ² / ndf 127 / 92
p0 −0.1784 ± 7.636
pull
Entries 93
Mean −32.04
Std Dev 0

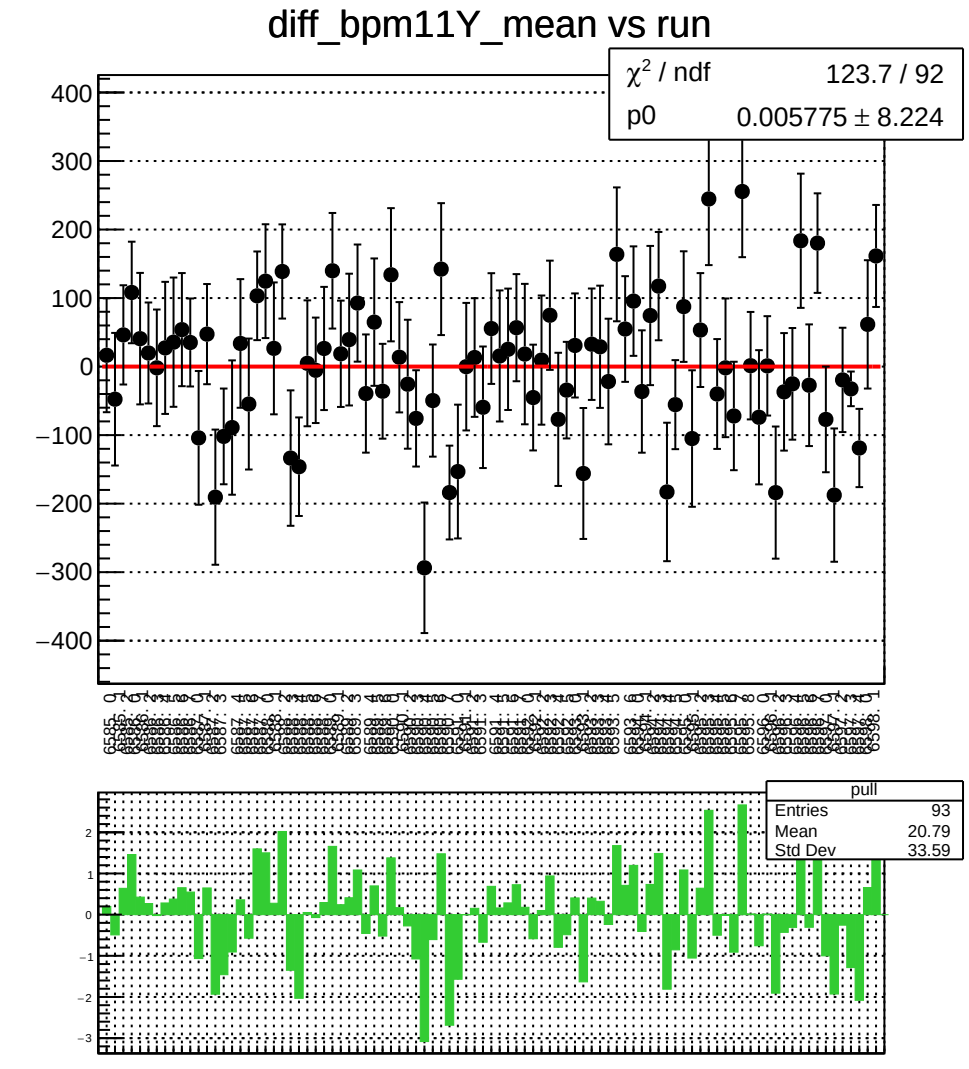

pull1D
Entries 93
Mean −0.01175
Std Dev 1.168

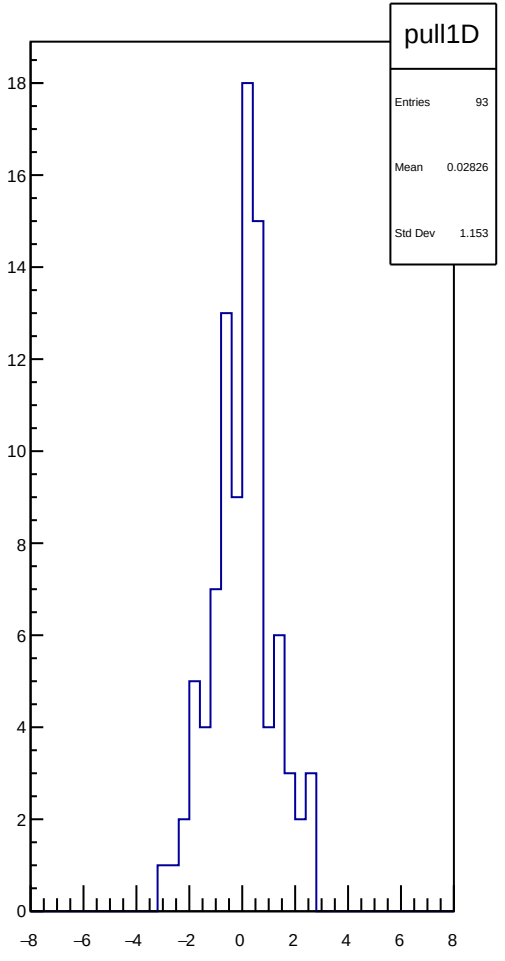

diff_bpm1Y_rms vs run
χ² / ndf 4.082e+04 / 92
p0 7102 ± 5.4
9000
8000
7000
6000
5000
4000
3000

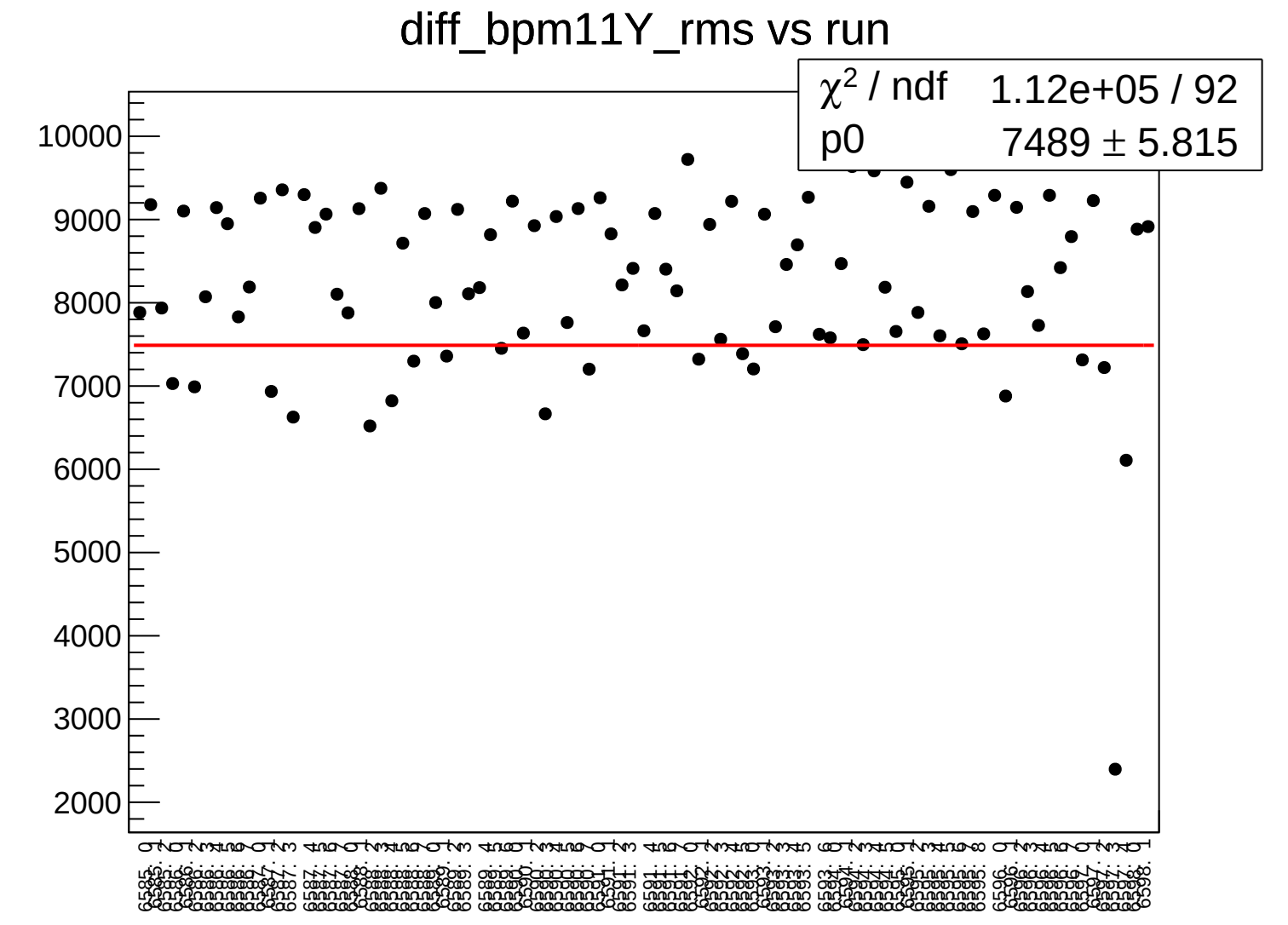

diff_bpm11X_mean vs run
χ² / ndf 96.14 / 92
p0 6.963 ± 10.26
pull
Entries 93
Mean 302.5
Std Dev 70.94

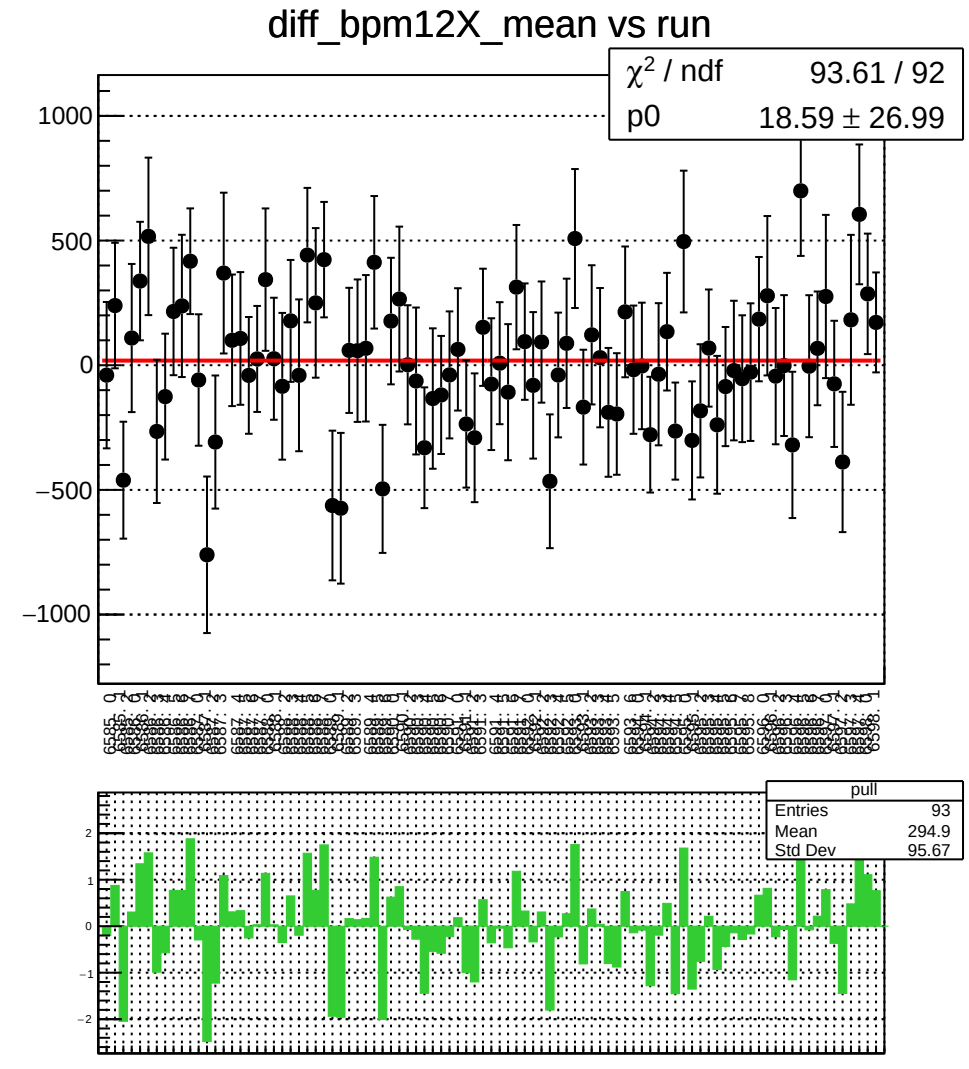

pull1D
Entries 93
Mean 0.001762
Std Dev 1.017

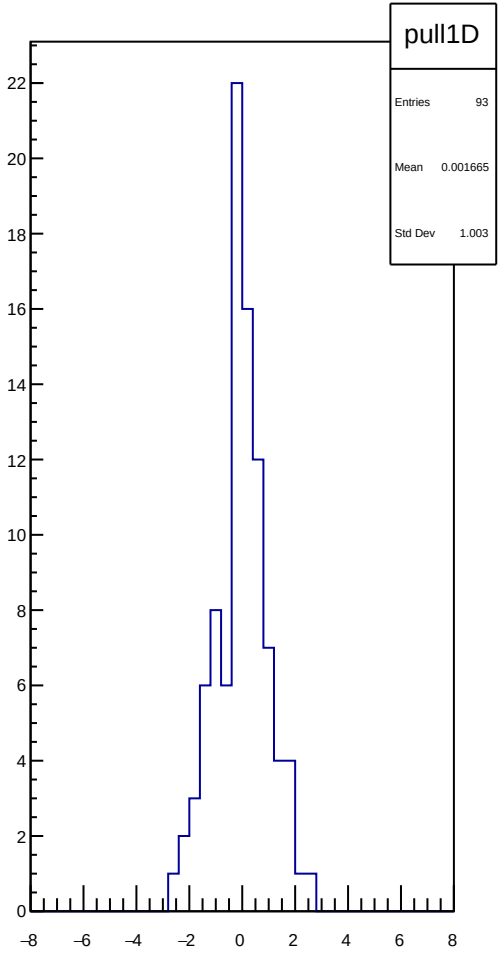

diff_bpm11X_rms vs run
χ² / ndf 1.35e+04 / 92
p0 9619 ± 7.257
12000
11000
10000
9000
8000

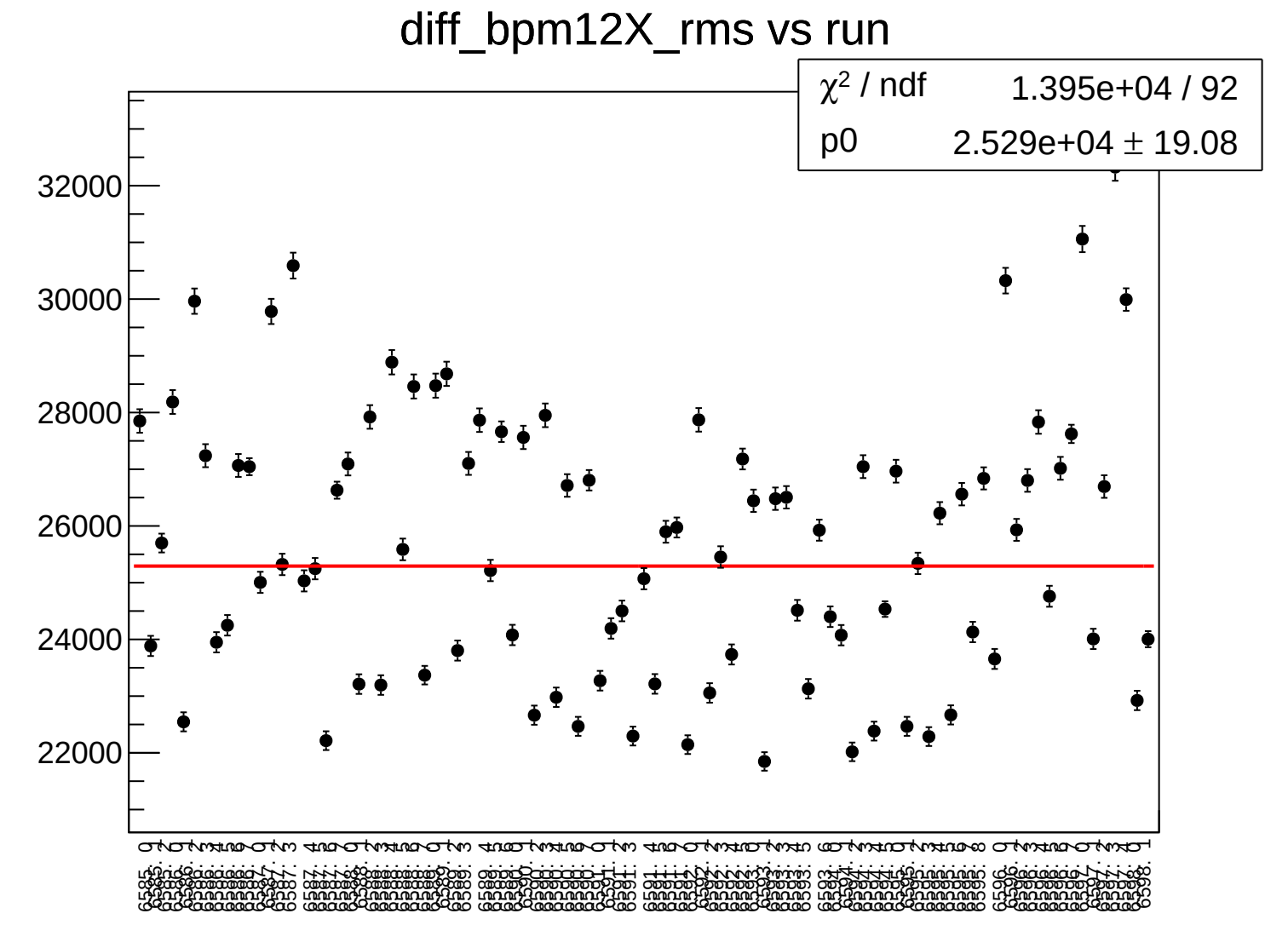

diff_bpm11Y_mean vs run
χ² / ndf 123.7 / 92
p0 0.005775 ± 8.224
pull
Entries 93
Mean 20.79
Std Dev 33.59

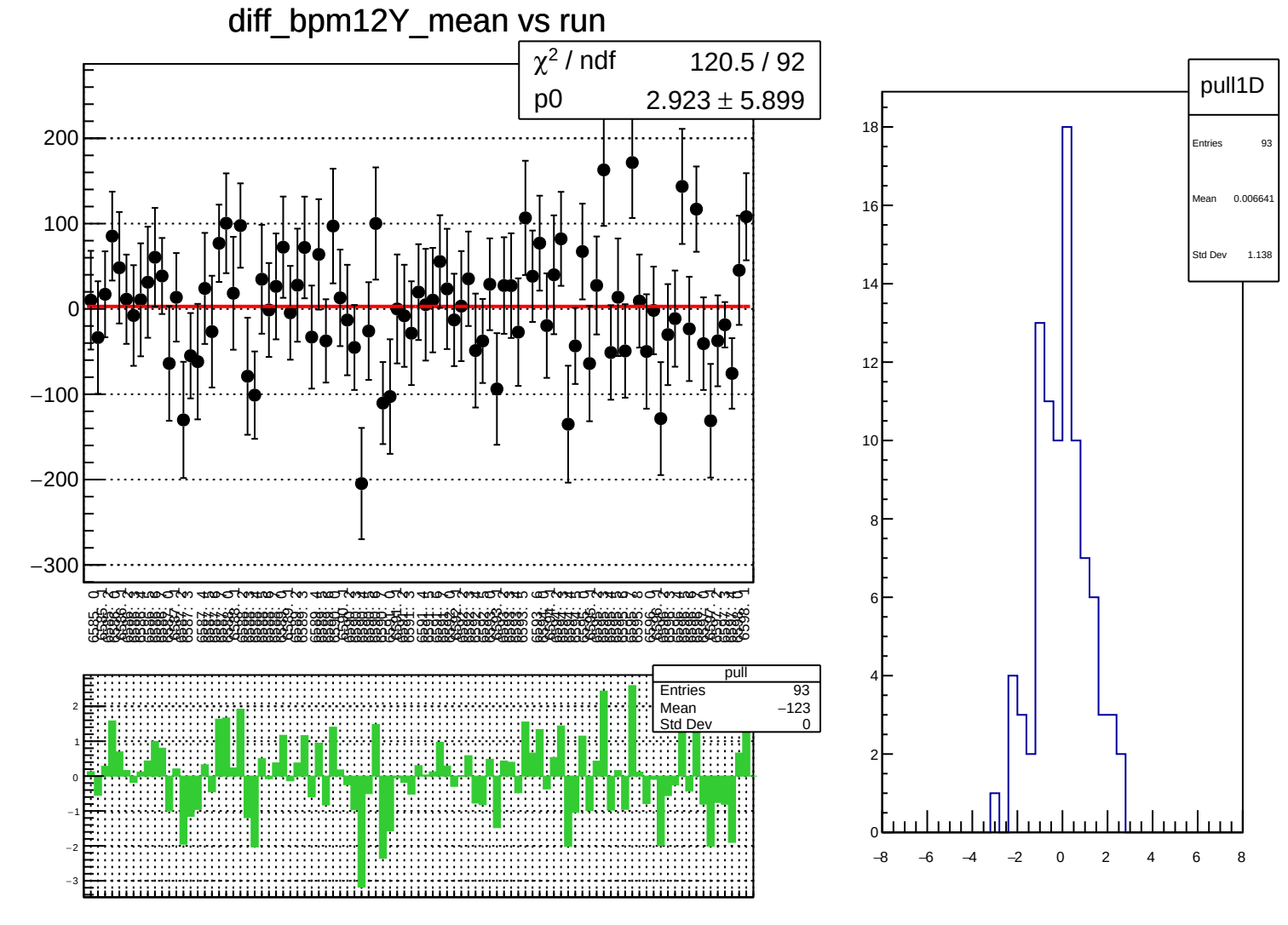

pull1D
Entries 93
Mean 0.02826
Std Dev 1.153

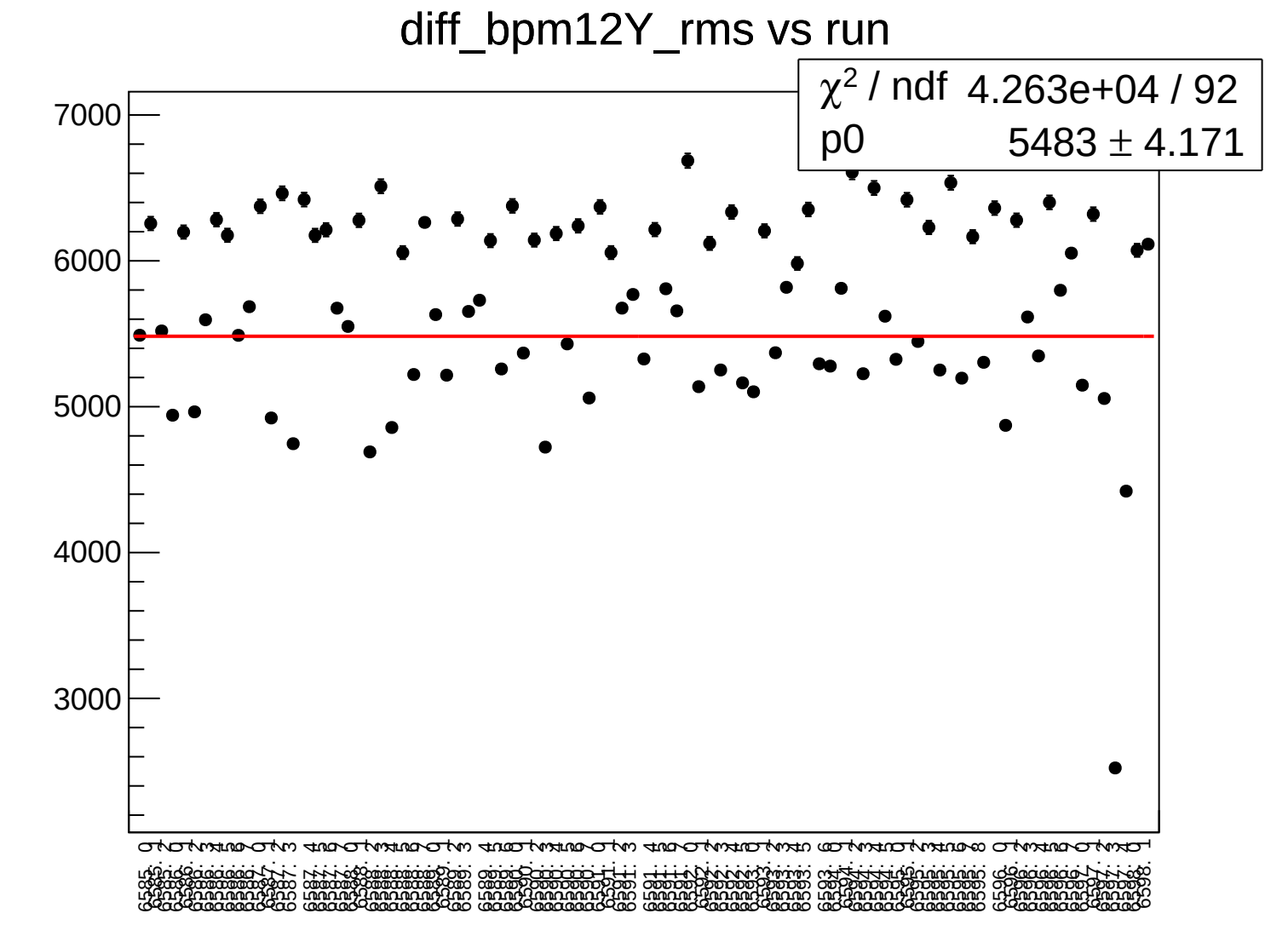

diff_bpm11Y_rms vs run
χ² / ndf 1.12e+05 / 92
p0 7489 ± 5.815
10000
9000
8000
7000
6000
5000
4000
3000
2000

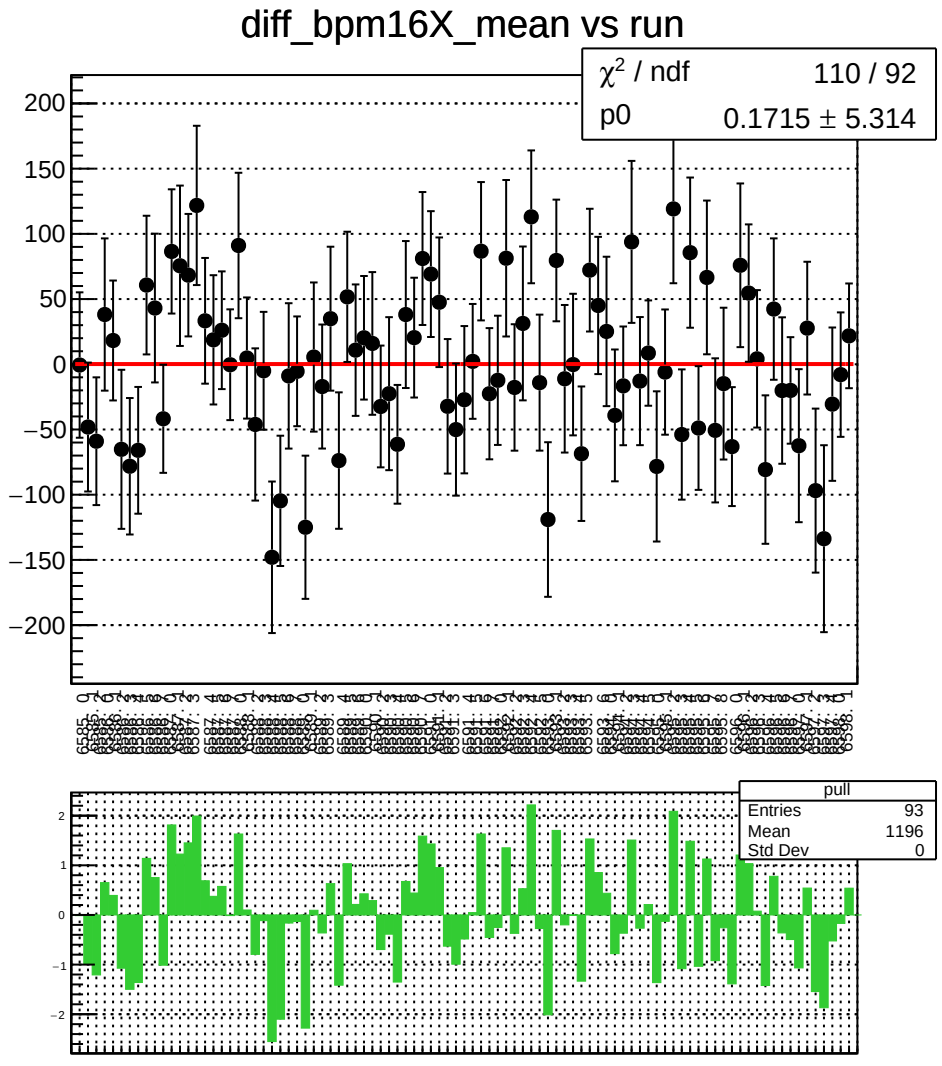

diff_bpm12X_mean vs run
χ² / ndf 93.61 / 92
p0 18.59 ± 26.99
1000
500
0
−500
−1000
pull
Entries 93
Mean 294.9
Std Dev 95.67
2
1
0
−1
−2

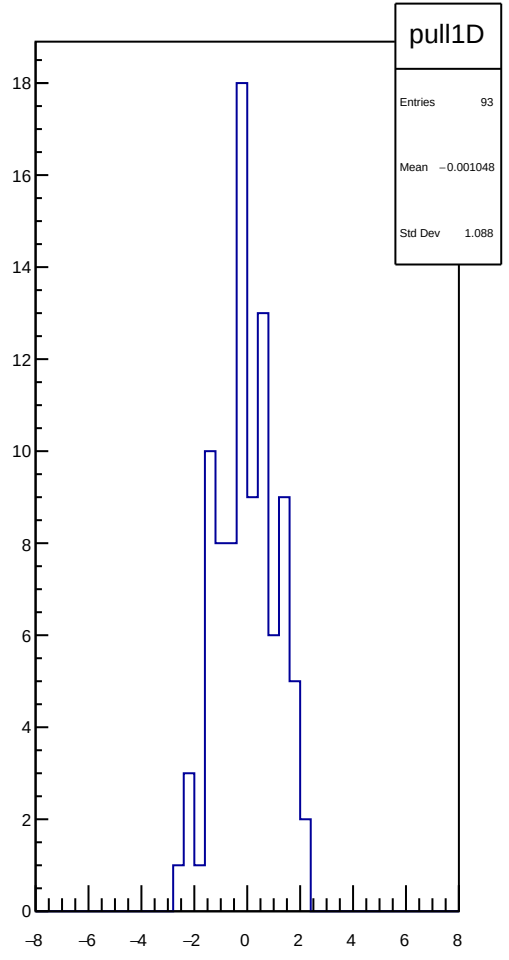

pull1D
Entries 93
Mean 0.001665
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

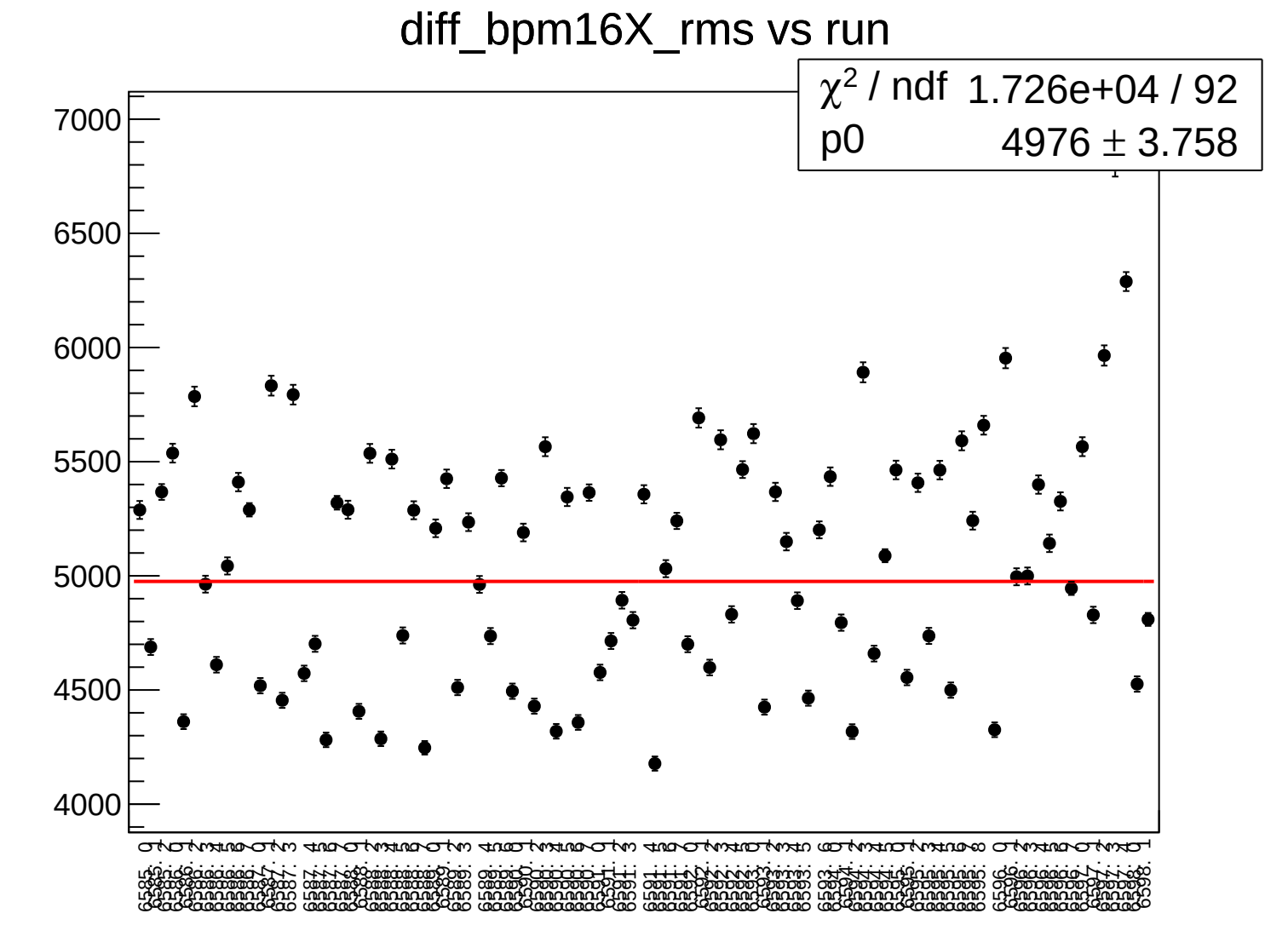

diff_bpm12X_rms vs run
χ² / ndf 1.395e+04 / 92
p0 2.529e+04 ± 19.08
32000
30000
28000
26000
24000
22000

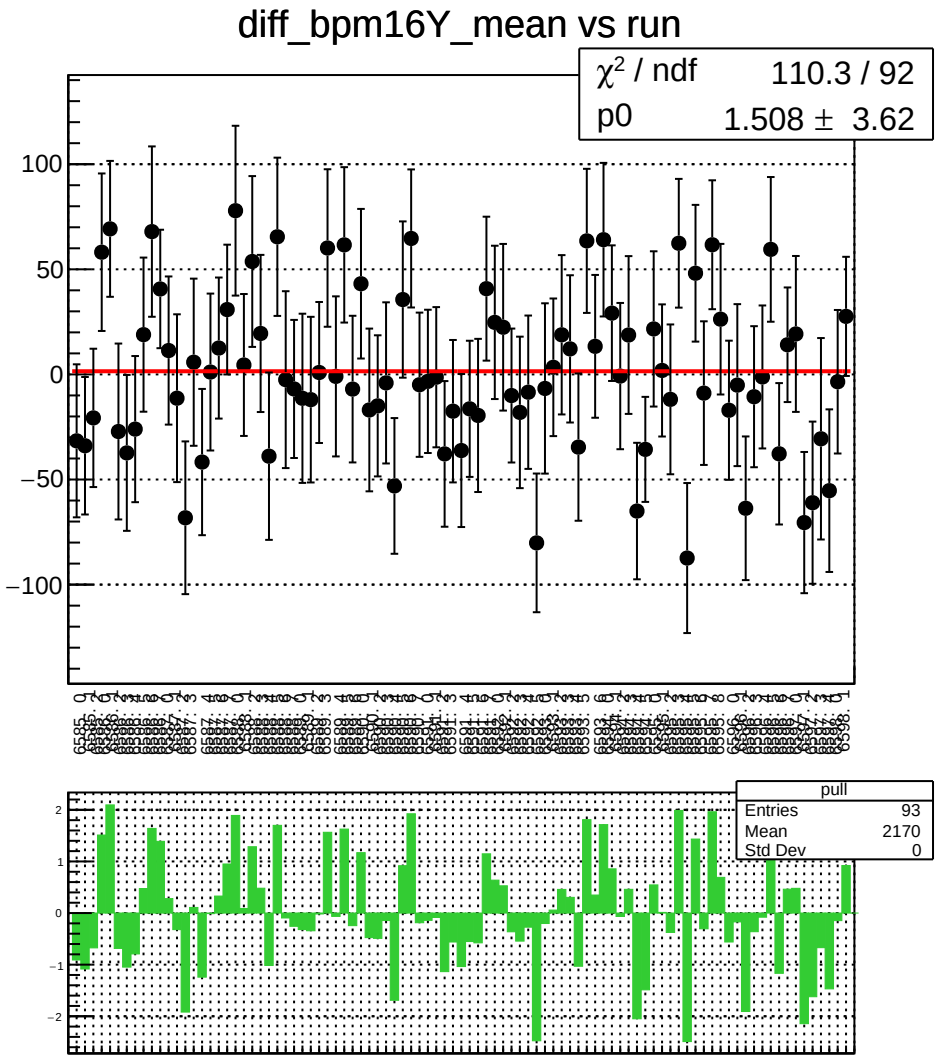

diff_bpm12Y_mean vs run
χ² / ndf 120.5 / 92
p0 2.923 ± 5.899
200
100
0
−100
−200
−300
pull
Entries 93
Mean −123
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.006641
Std Dev 1.138
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

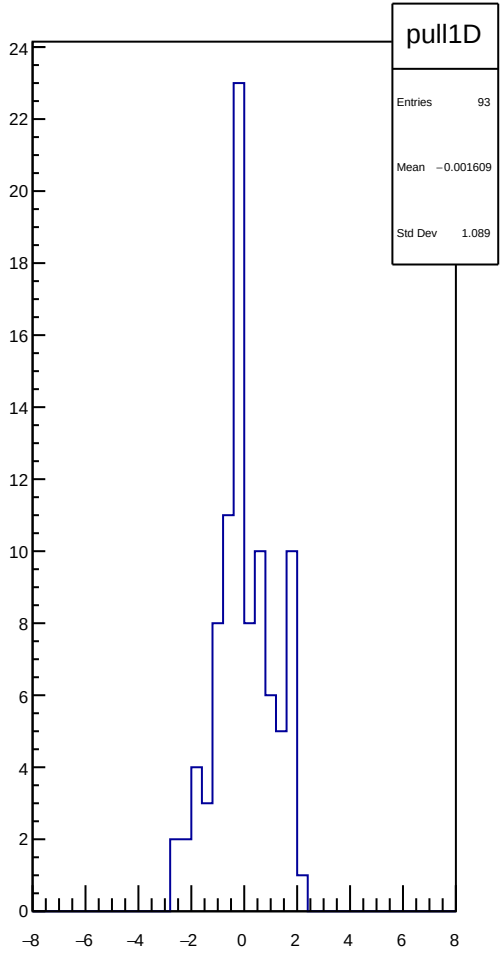

diff_bpm12Y_rms vs run
χ² / ndf 4.263e+04 / 92
p0 5483 ± 4.171
7000
6000
5000
4000
3000

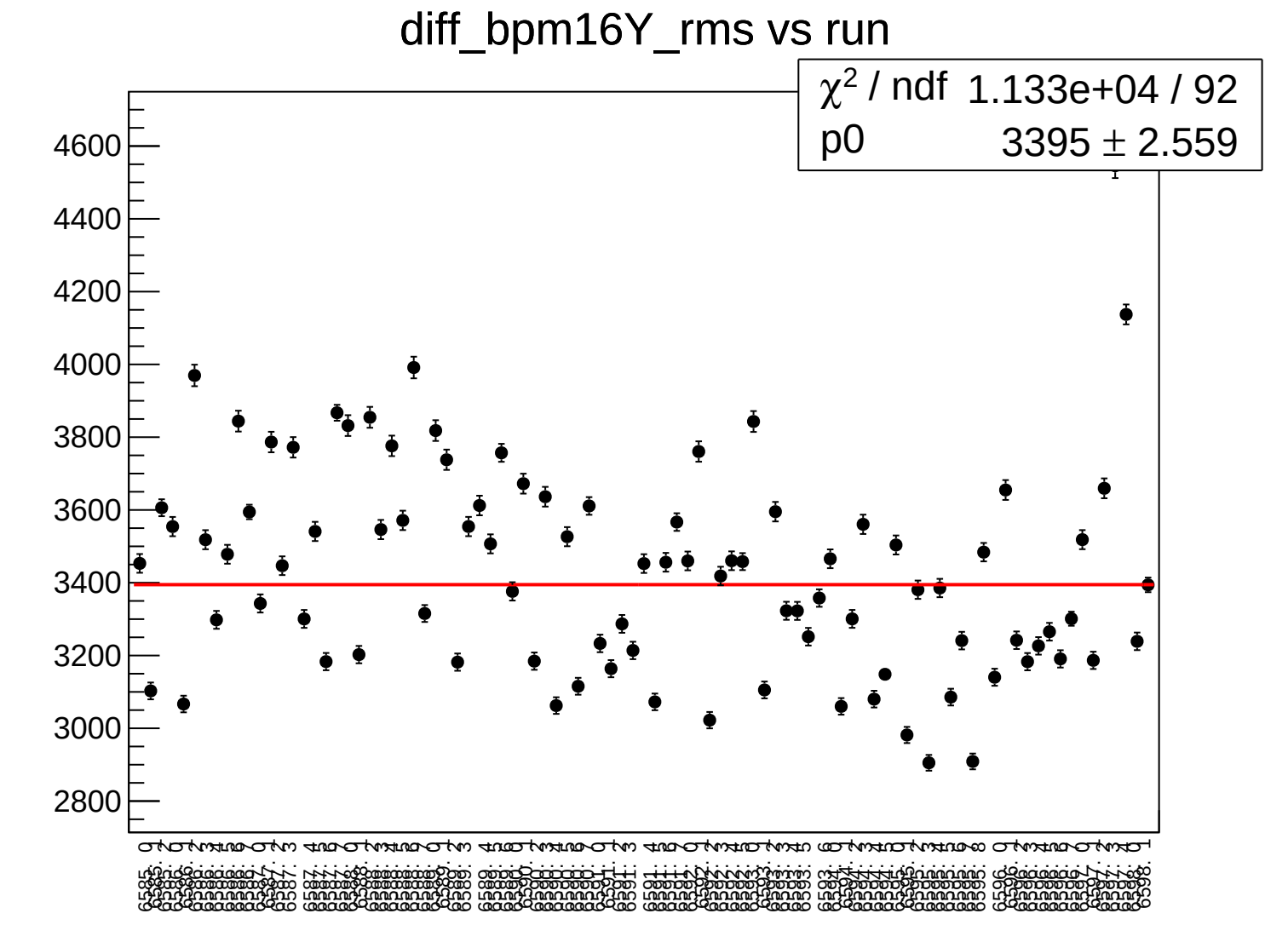

diff_bpm16X_mean vs run
χ² / ndf 110 / 92
p0 0.1715 ± 5.314
pull
Entries 93
Mean 1196
Std Dev 0

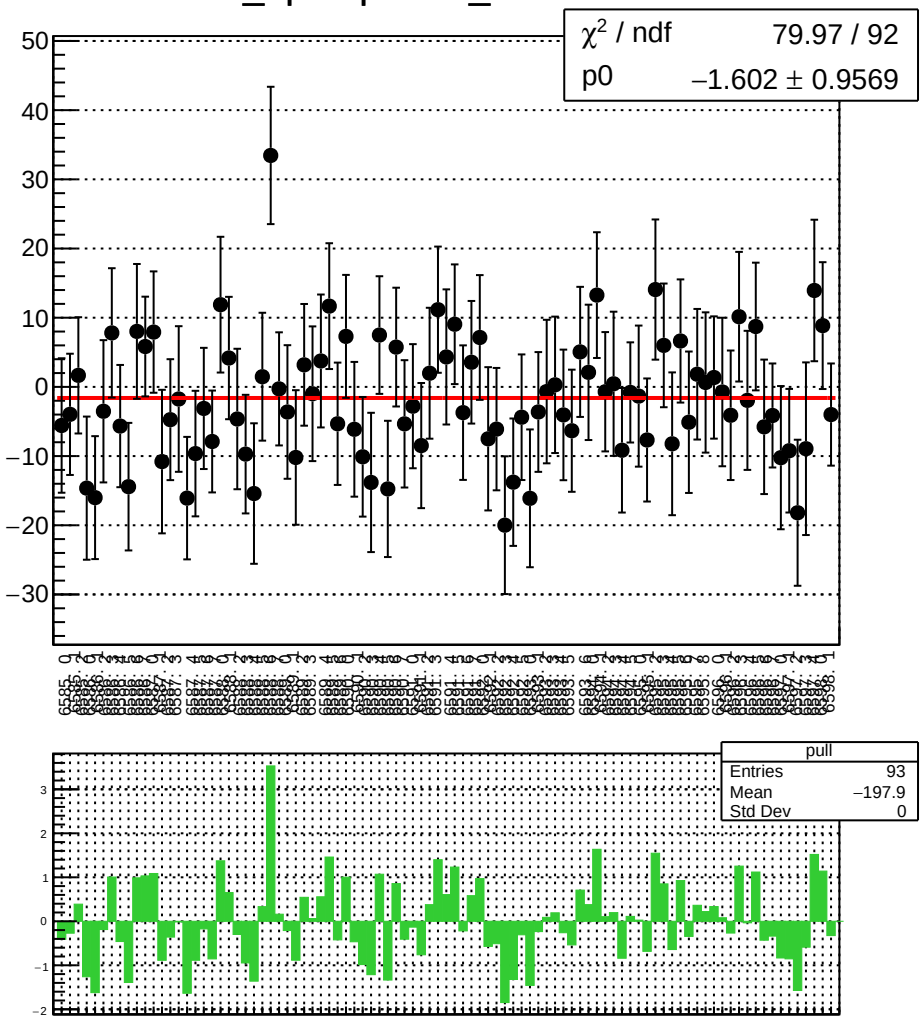

pull1D
Entries 93
Mean −0.001048
Std Dev 1.088

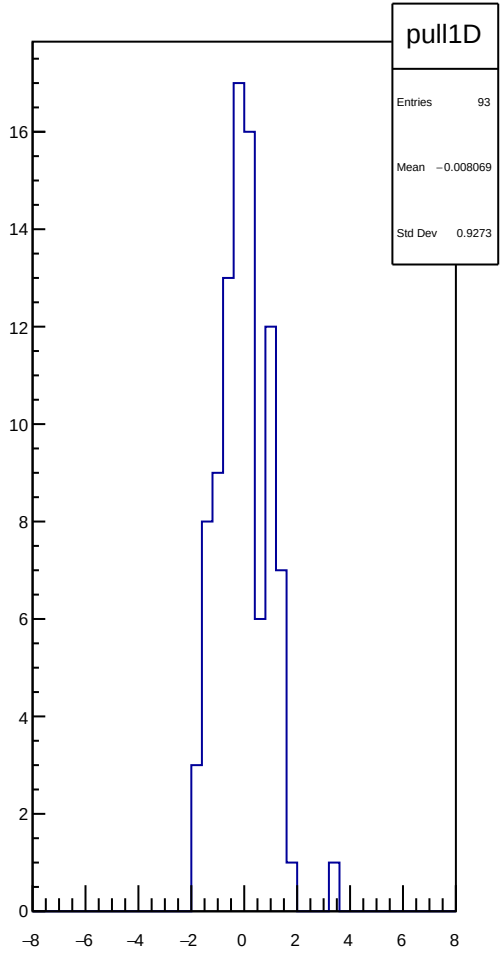

diff_bpm16X_rms vs run
χ^2 / ndf 1.726e+04 / 92
p0 4976 ± 3.758
7000
6500
6000
5500
5000
4500
4000

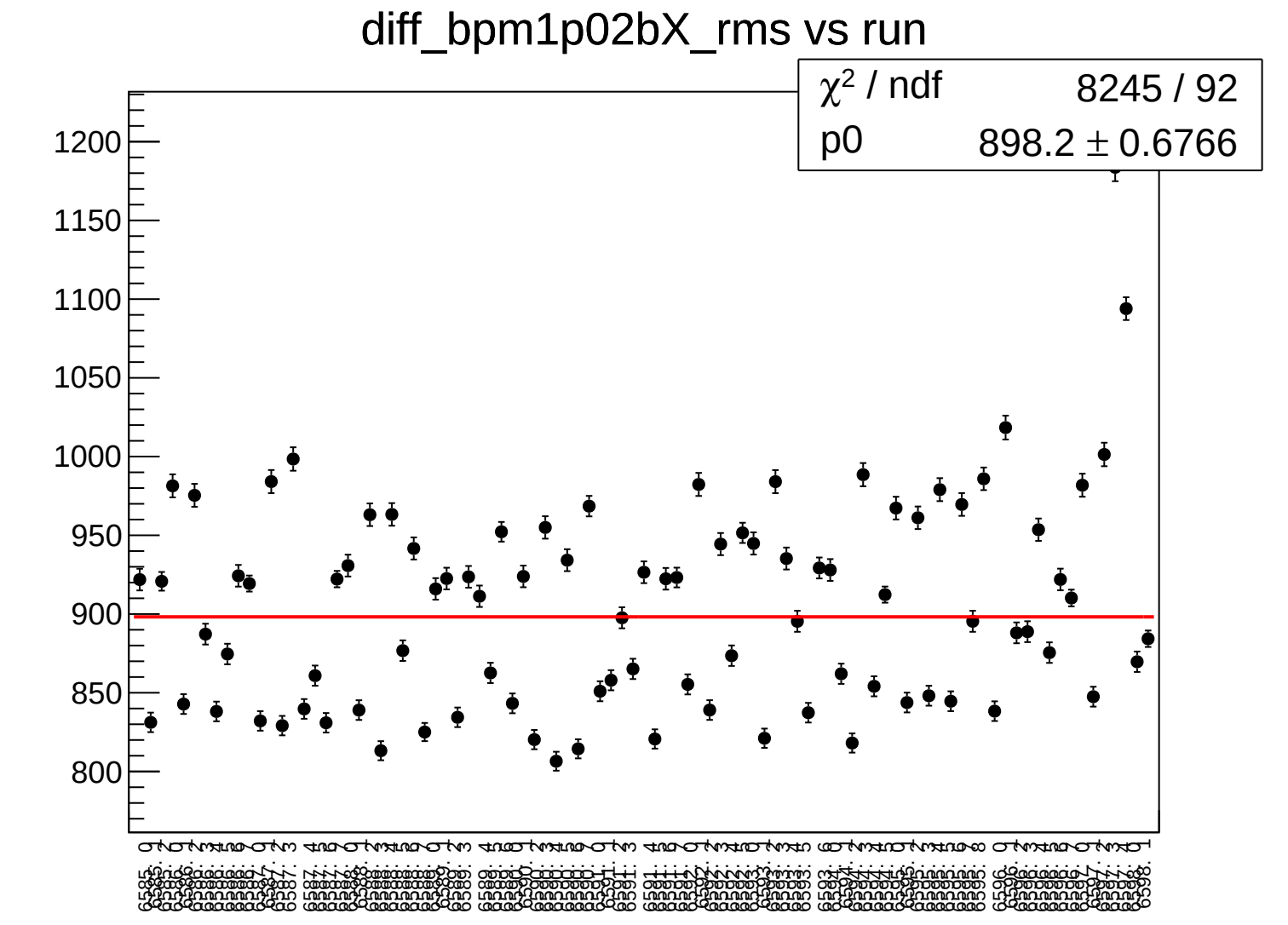

diff_bpm16Y_mean vs run
χ² / ndf 110.3 / 92
p0 1.508 ± 3.62
100
50
0
−50
−100
pull
Entries 93
Mean 2170
Std Dev 0
2
1
0
−1
−2

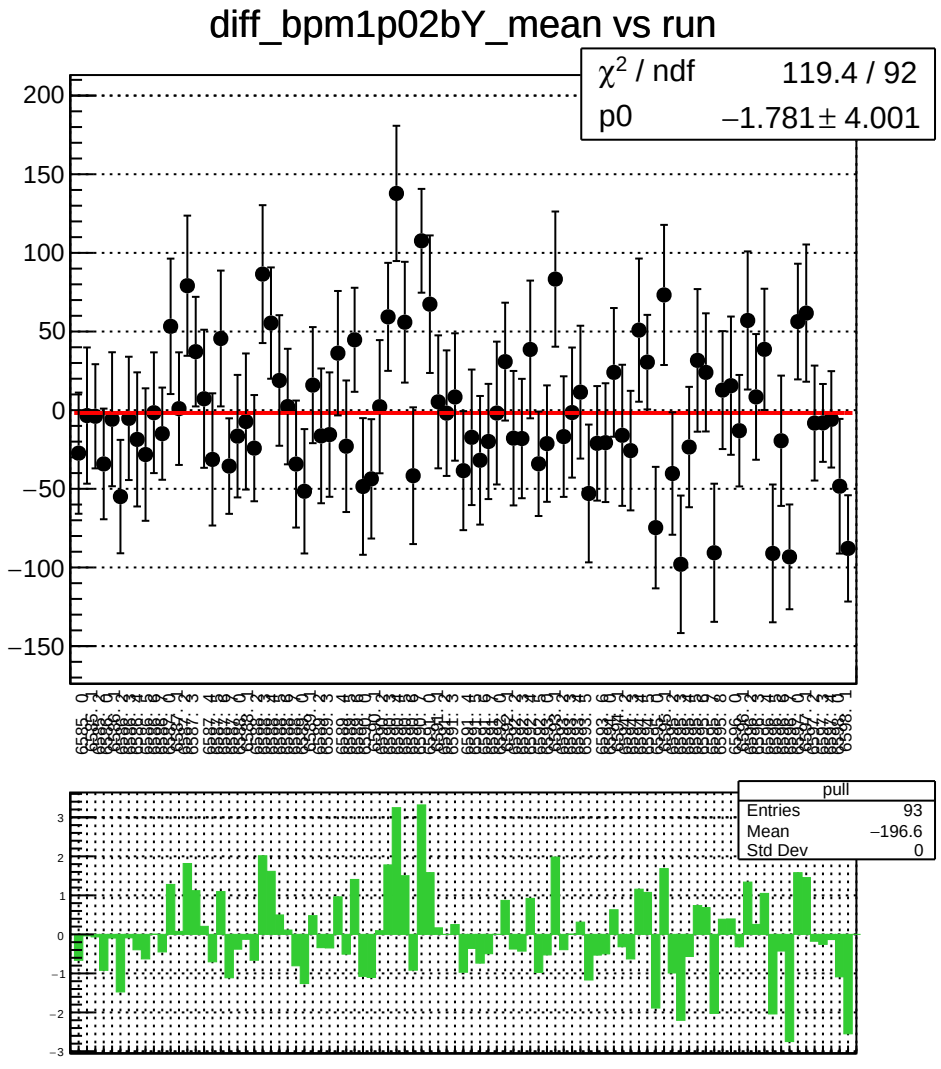

pull1D
Entries 93
Mean −0.001609
Std Dev 1.089
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

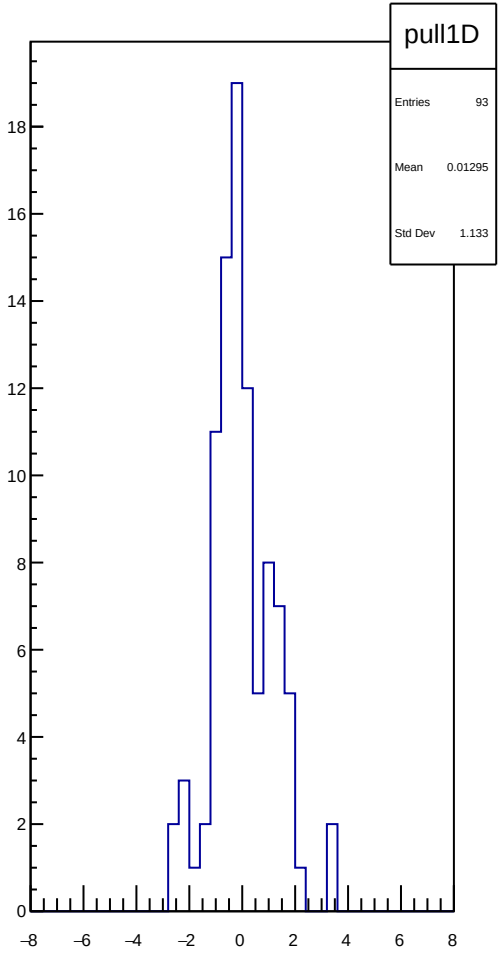

diff_bpm16Y_rms vs run
χ² / ndf 1.133e+04 / 92
p0 3395 ± 2.559
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

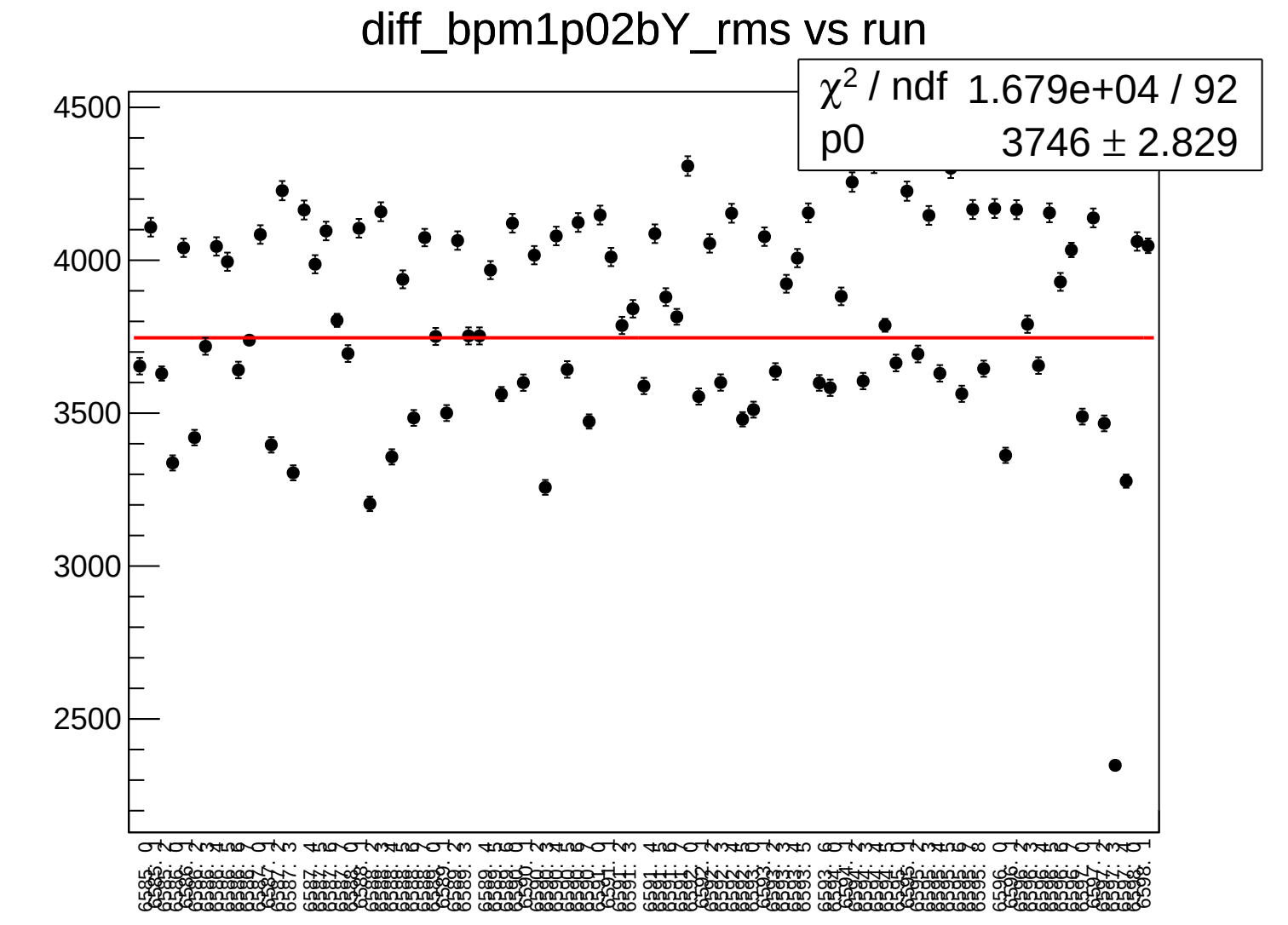

diff_bpm1p02bX_mean vs run
χ² / ndf 79.97 / 92
p0 −1.602 ± 0.9569
pull
Entries 93
Mean −197.9
Std Dev 0

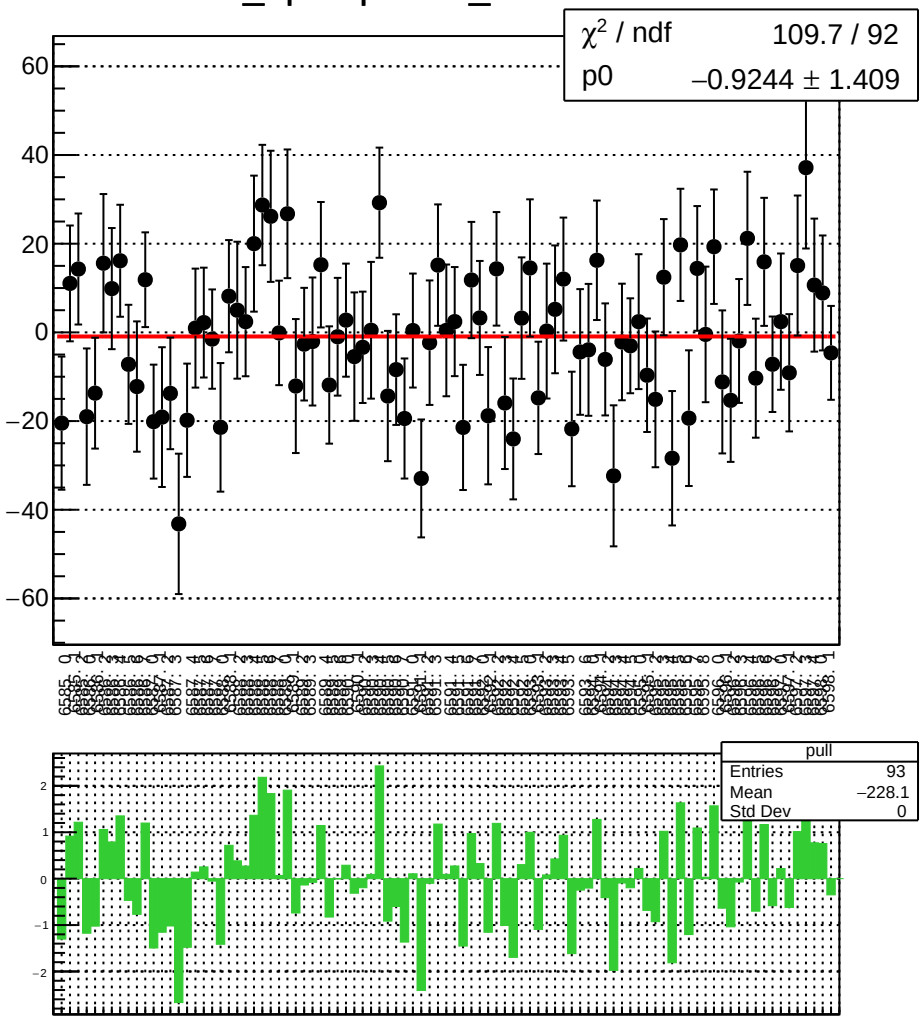

pull1D
Entries 93
Mean −0.008069
Std Dev 0.9273

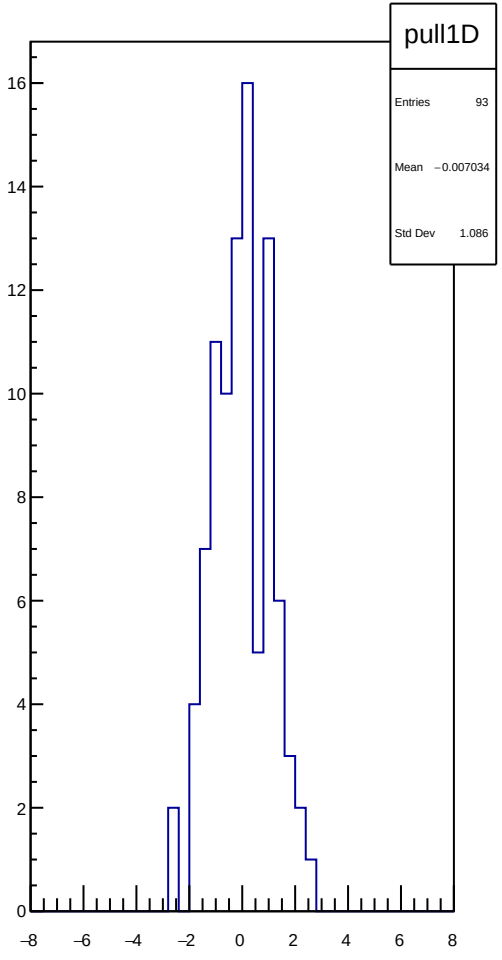

diff_bpm1p02bX_rms vs run
χ² / ndf 8245 / 92
p0 898.2 ± 0.6766
1200
1150
1100
1050
1000
950
900
850
800

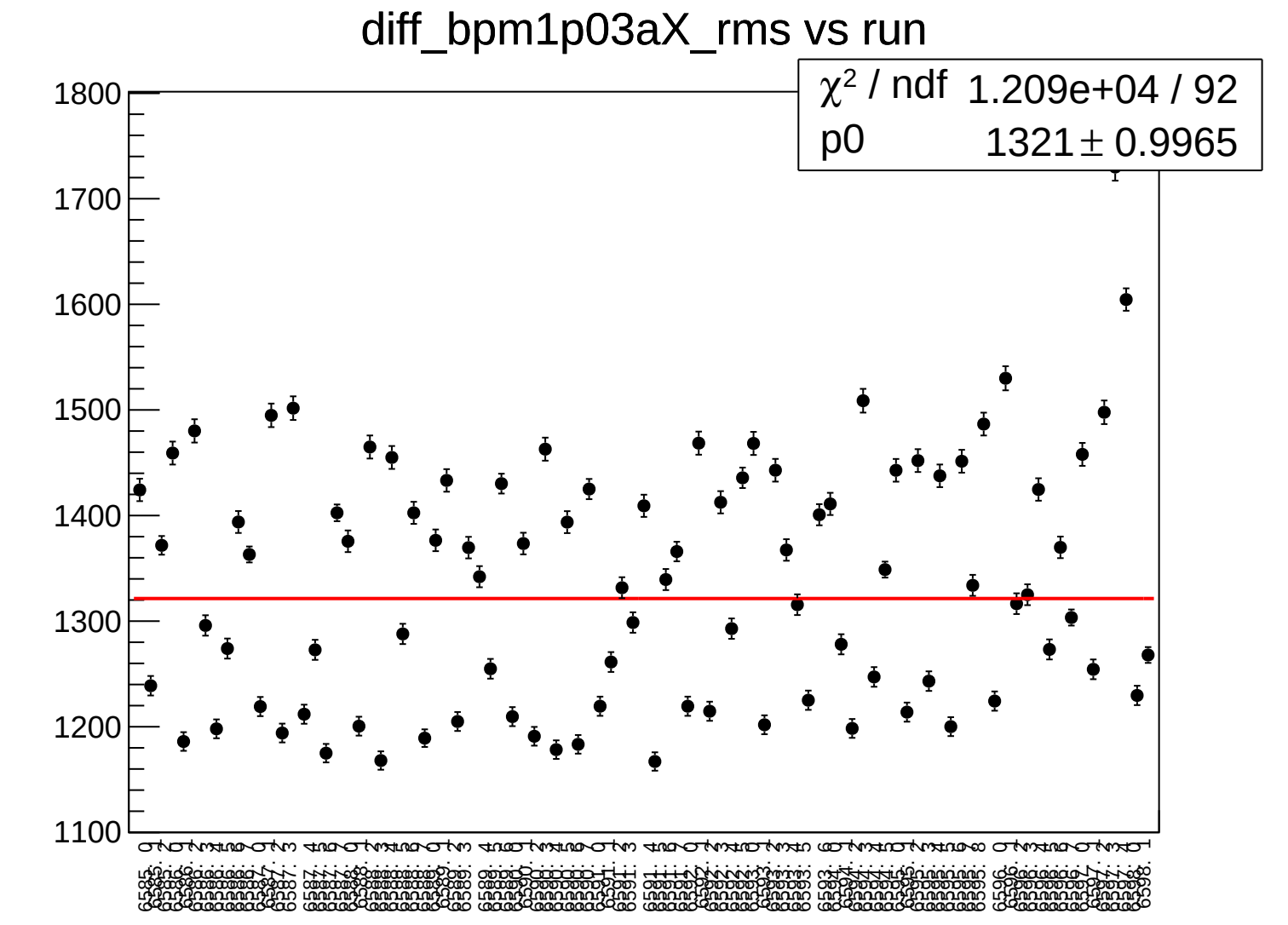

diff_bpm1p02bY_mean vs run
χ² / ndf 119.4 / 92
p0 −1.781 ± 4.001
pull
Entries 93
Mean −196.6
Std Dev 0

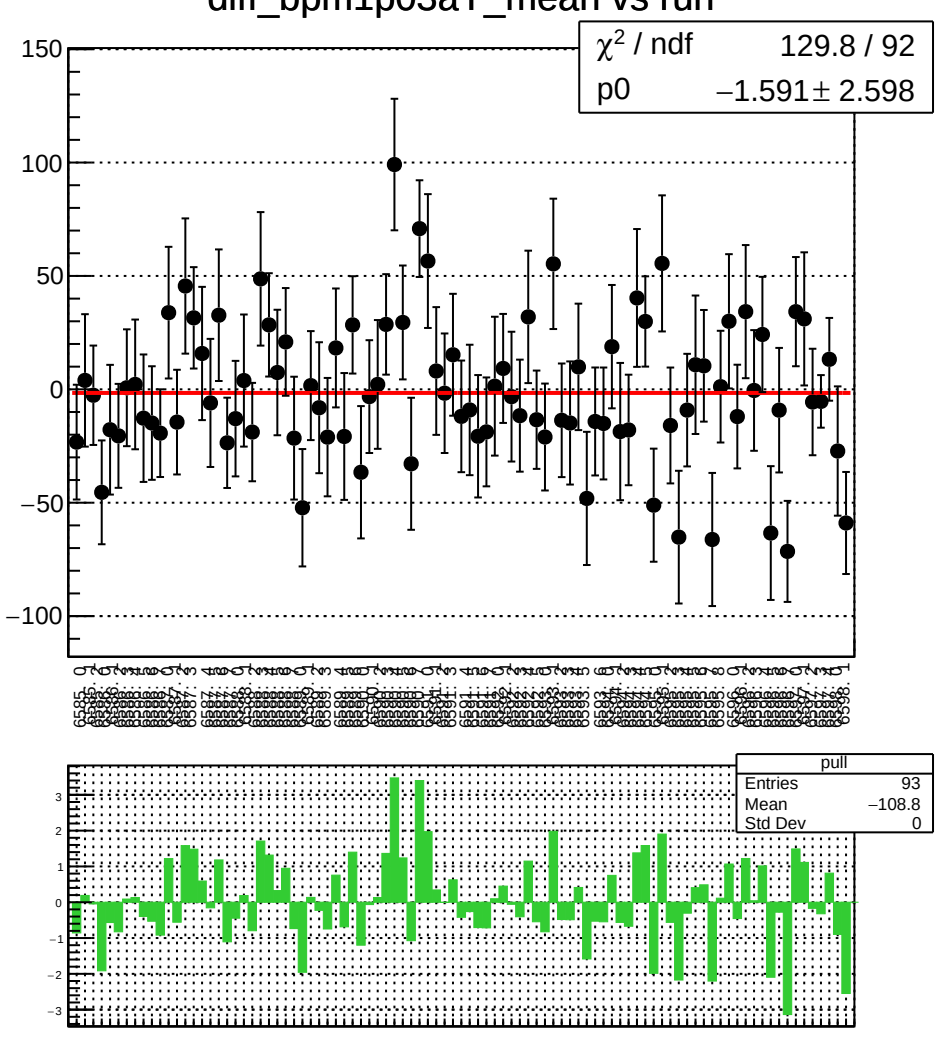

pull1D
Entries 93
Mean 0.01295
Std Dev 1.133

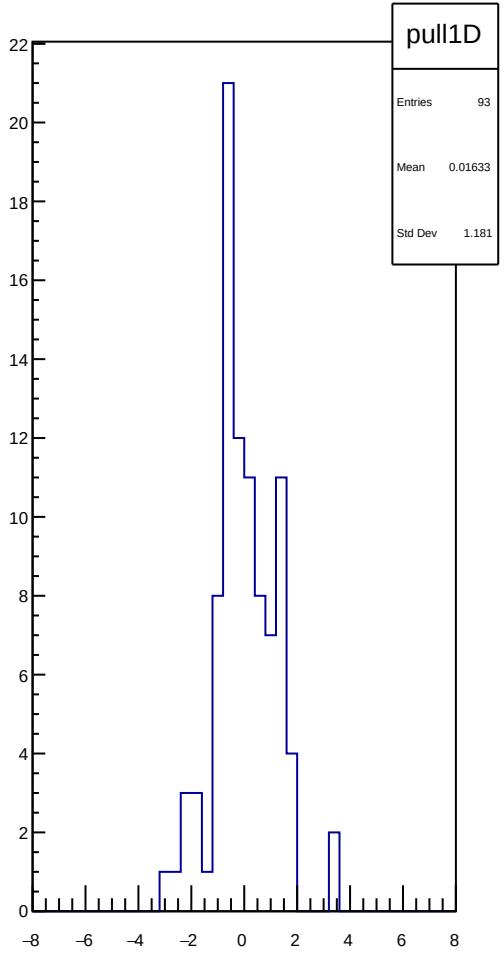

diff_bpm1p02bY_rms vs run
χ² / ndf 1.679e+04 / 92
p0 3746 ± 2.829
4500
4000
3500
3000
2500

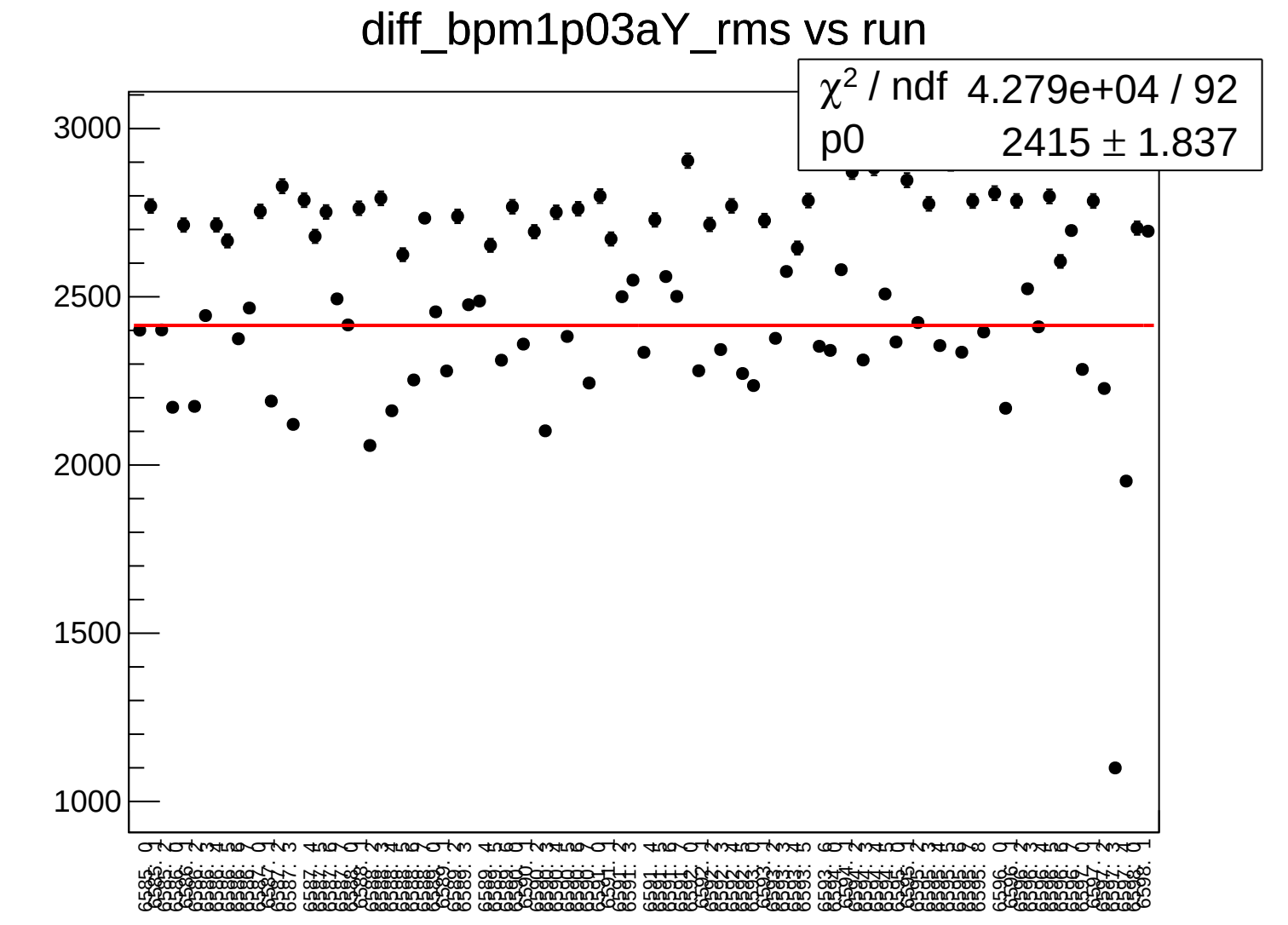

diff_bpm1p03aX_mean vs run
χ² / ndf 109.7 / 92
p0 −0.9244 ± 1.409
pull
Entries 93
Mean −228.1
Std Dev 0

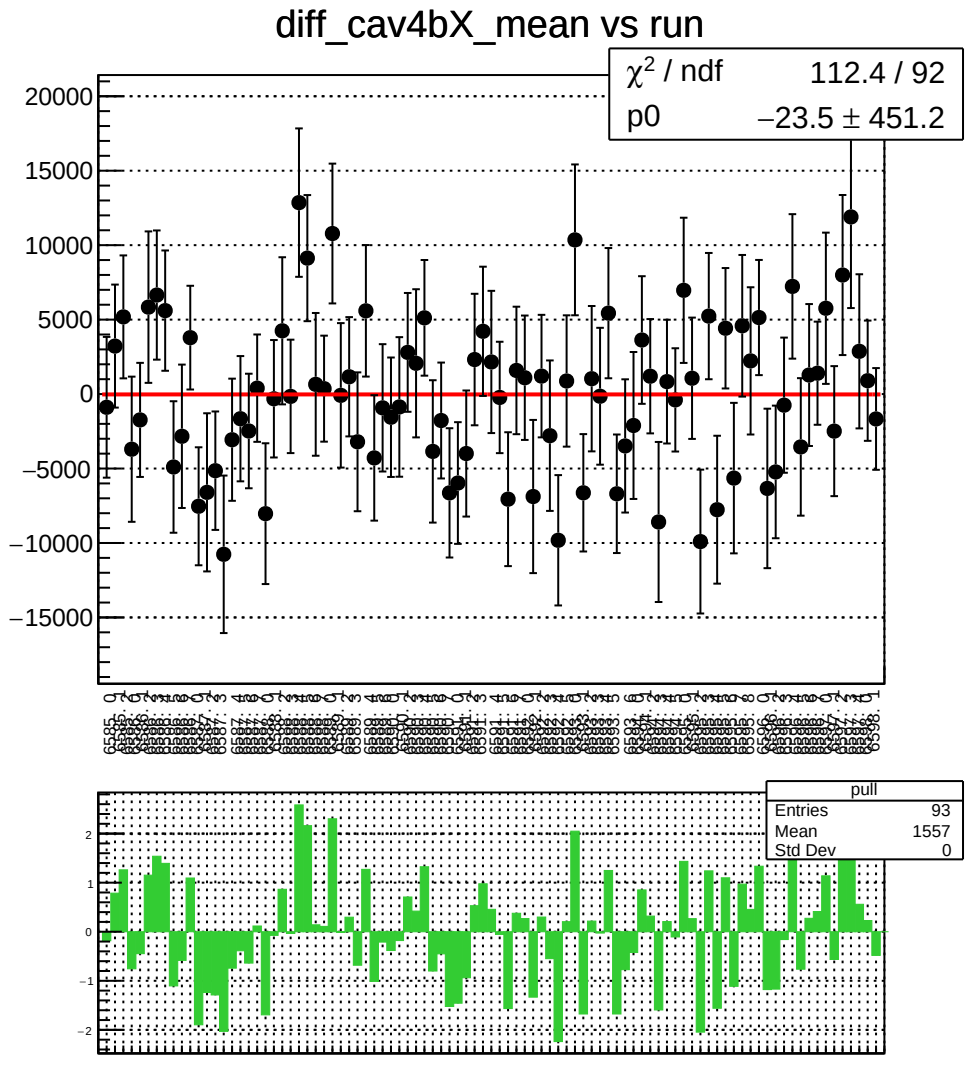

pull1D
Entries 93
Mean −0.007034
Std Dev 1.086

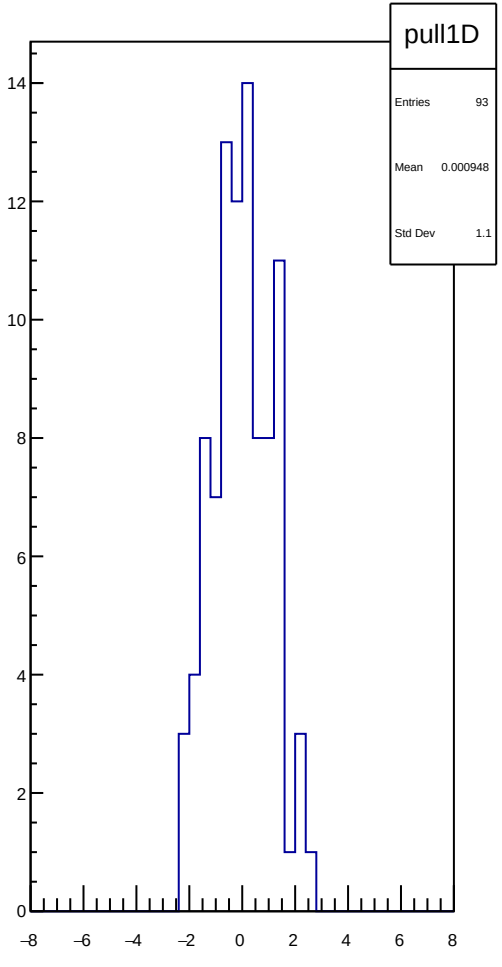

diff_bpm1p03aX_rms vs run
χ² / ndf 1.209e+04 / 92
p0 1321 ± 0.9965
1800
1700
1600
1500
1400
1300
1200
1100

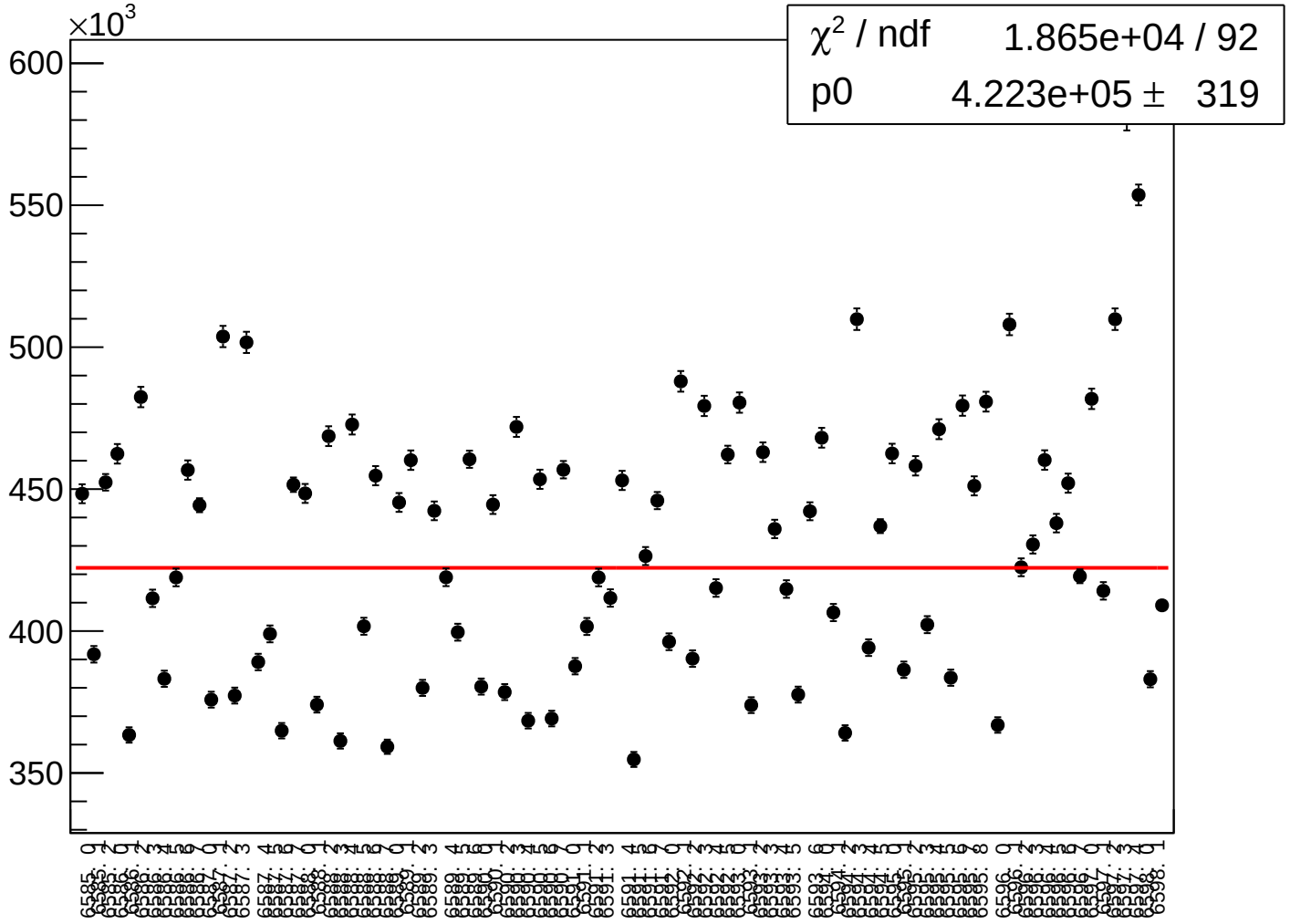

diff_bpm1p03aY_mean vs run
χ² / ndf 129.8 / 92
p0 −1.591 ± 2.598
150
100
50
0
−50
−100
pull
Entries 93
Mean −108.8
Std Dev 0
3
2
1
0
−1
−2
−3

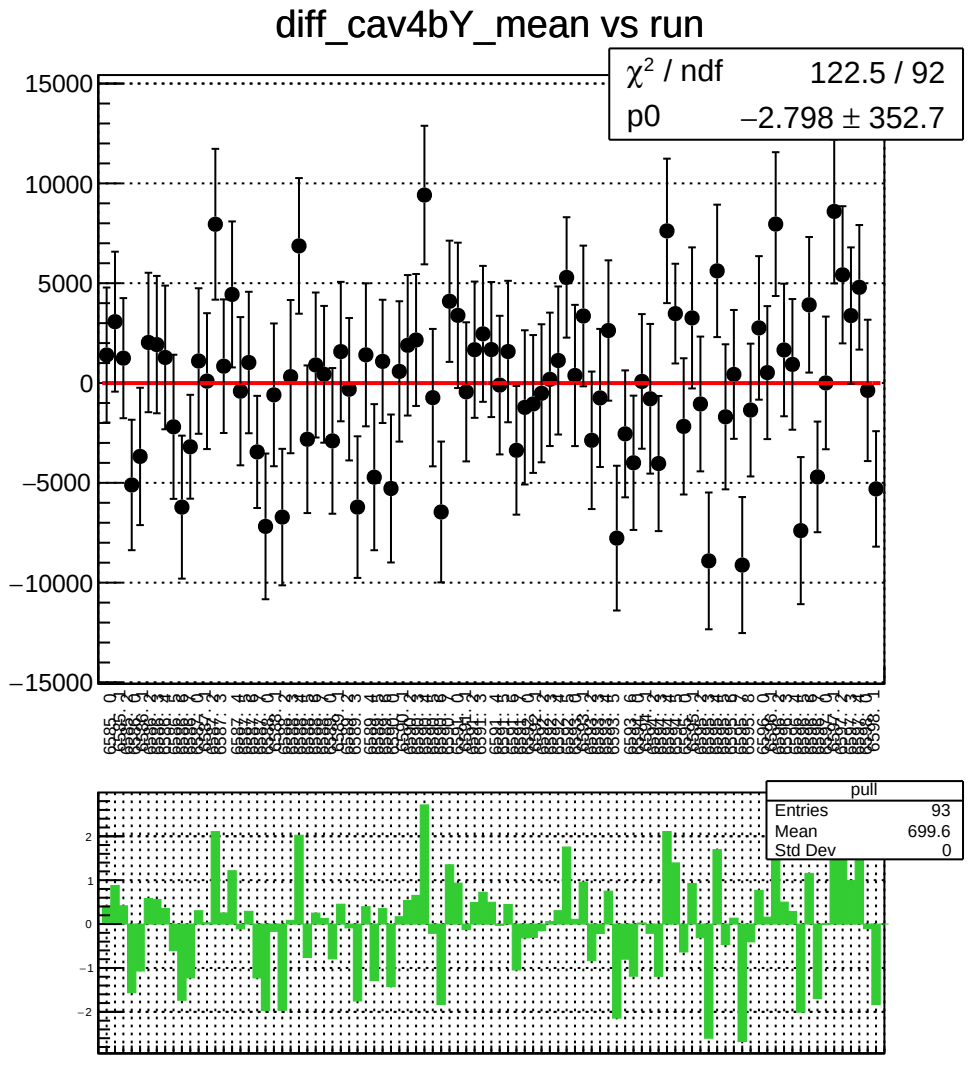

pull1D
Entries 93
Mean 0.01633
Std Dev 1.181
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

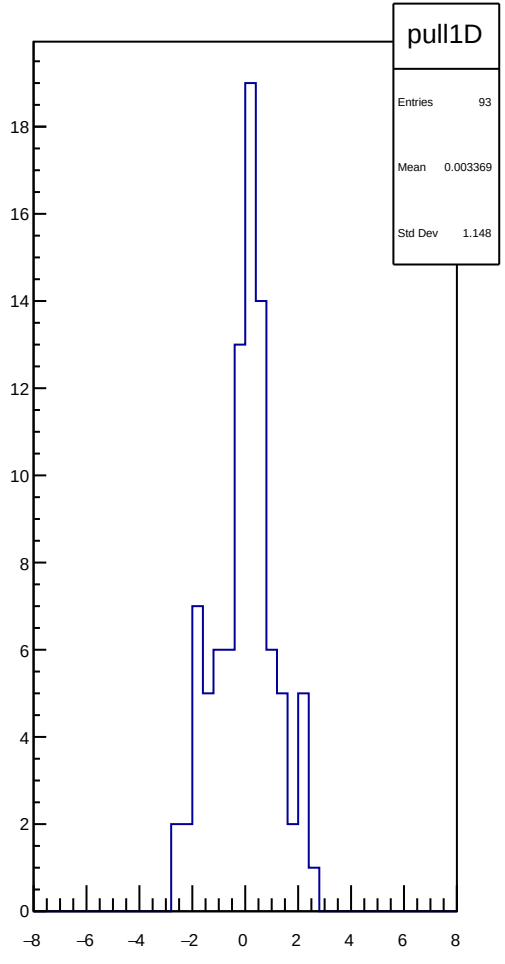

diff_bpm1p03aY_rms vs run
χ² / ndf 4.279e+04 / 92
p0 2415 ± 1.837
3000
2500
2000
1500
1000

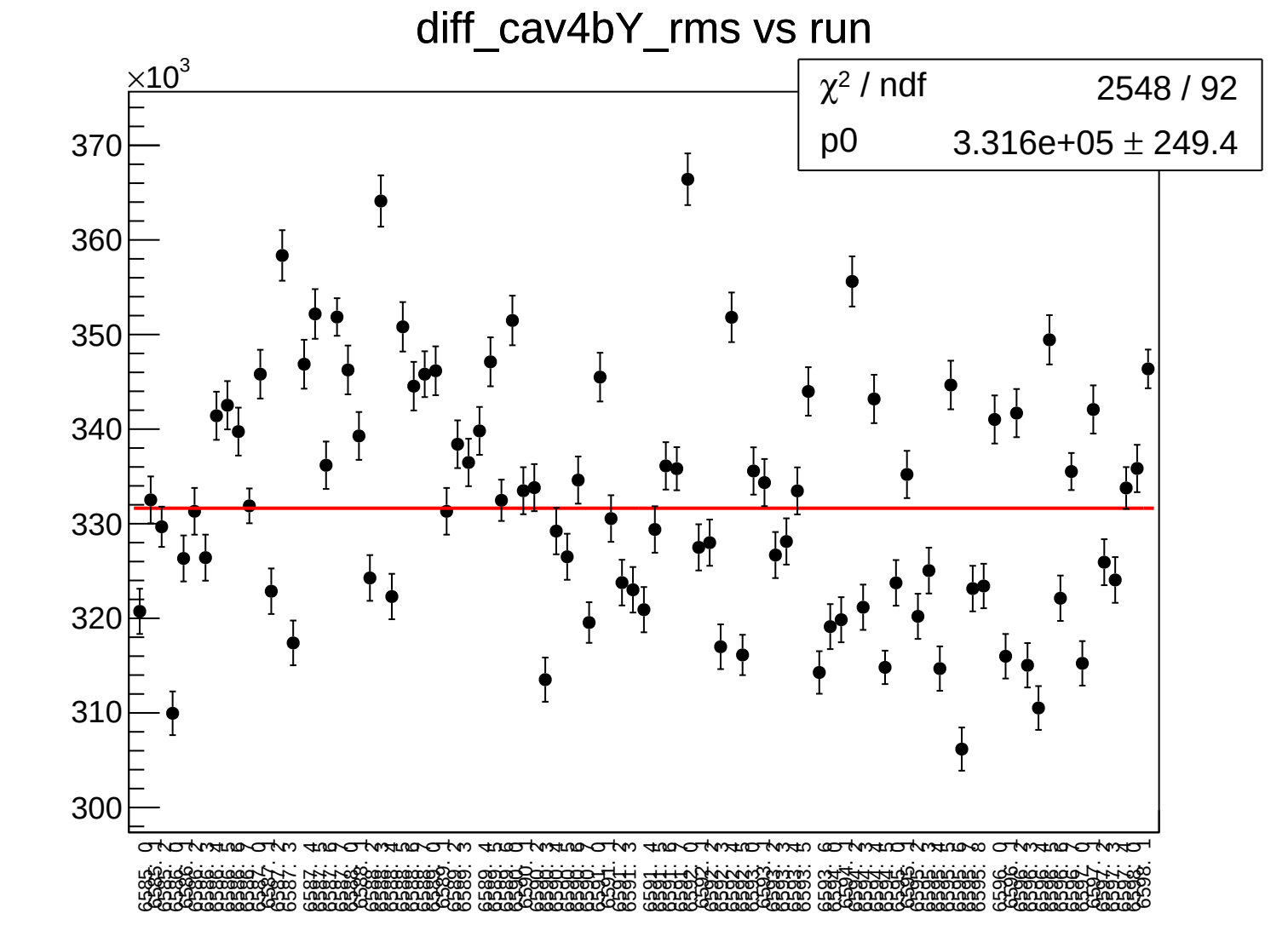

diff_cav4bX_mean vs run
χ² / ndf 112.4 / 92
p0 −23.5 ± 451.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 1557
Std Dev 0
2
1
0
−1
−2

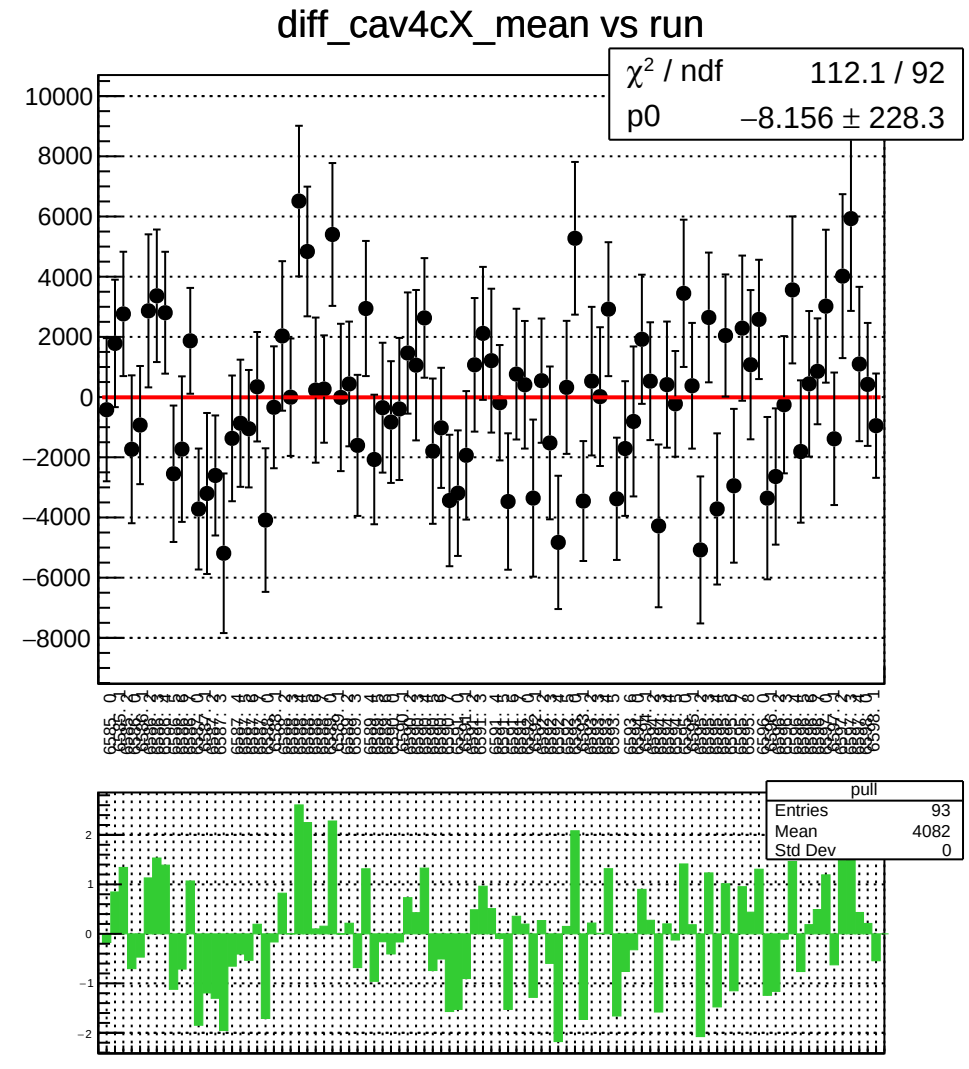

pull1D
Entries 93
Mean 0.000948
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

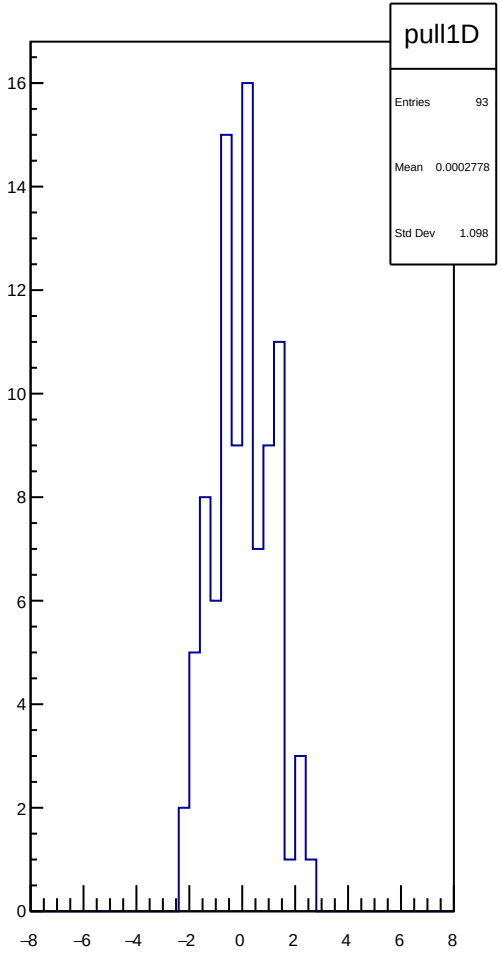

diff_cav4bX_rms vs run
×10^3
600
550
500
450
400
350
χ² / ndf 1.865e+04 / 92
p0 4.223e+05 ± 319

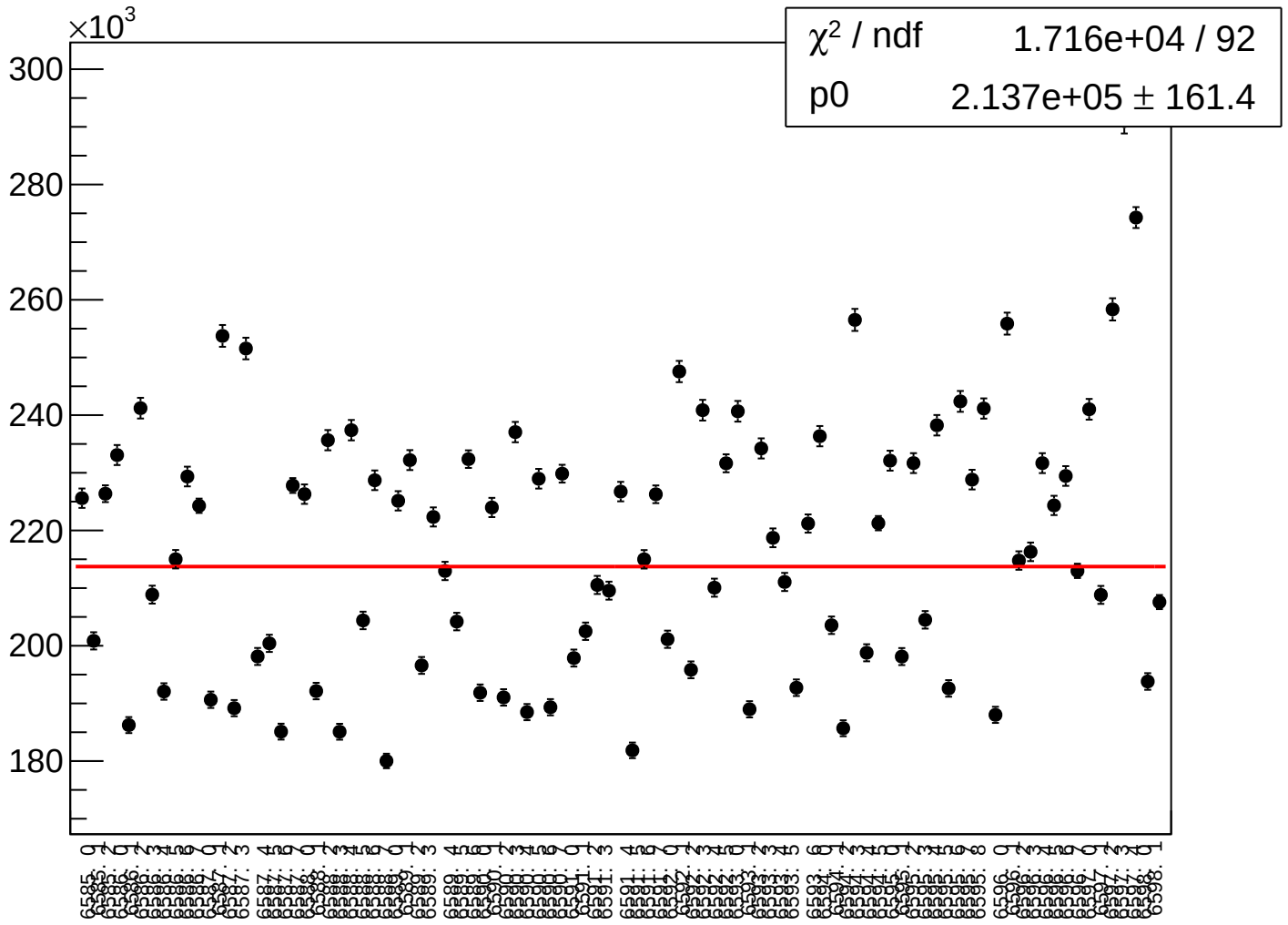

diff_cav4bY_mean vs run
χ² / ndf 122.5 / 92
p0 −2.798 ± 352.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 699.6
Std Dev 0
2
1
0
−1
−2

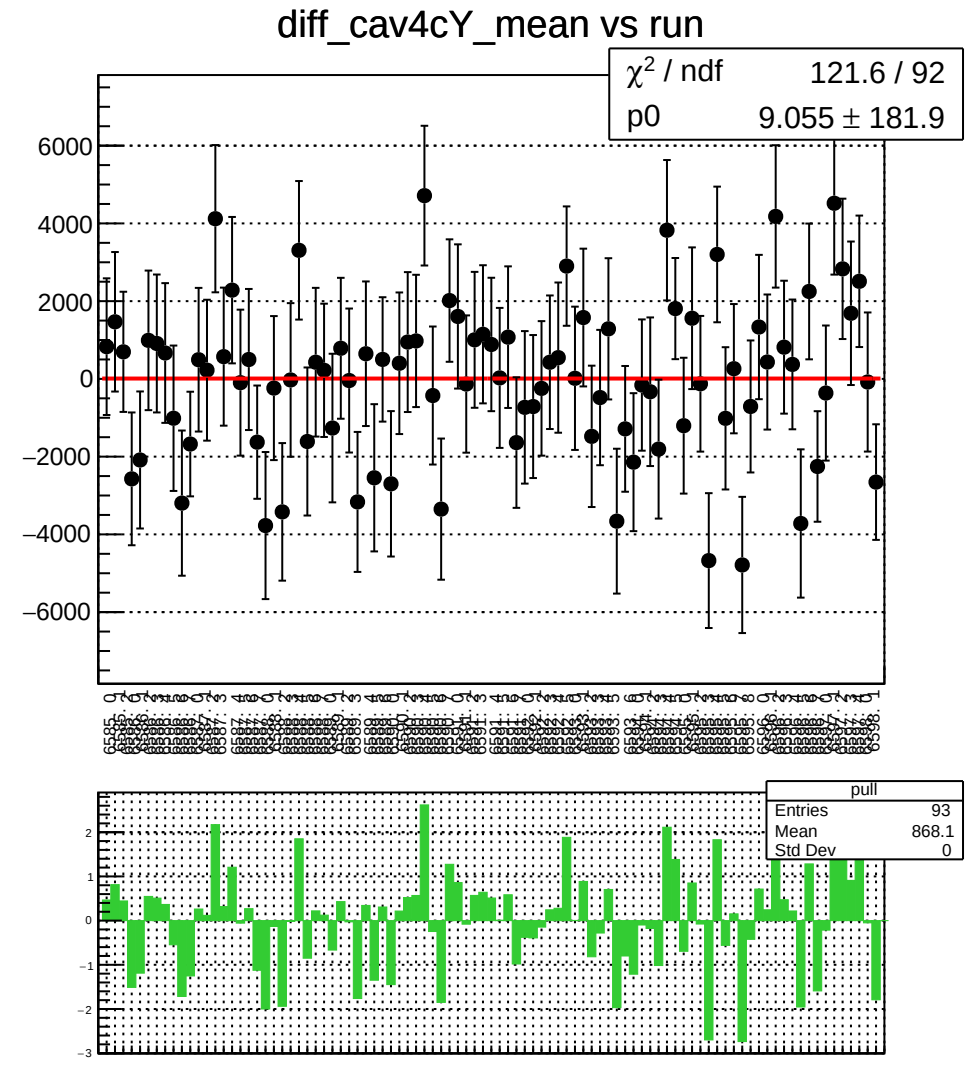

pull1D
Entries 93
Mean 0.003369
Std Dev 1.148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

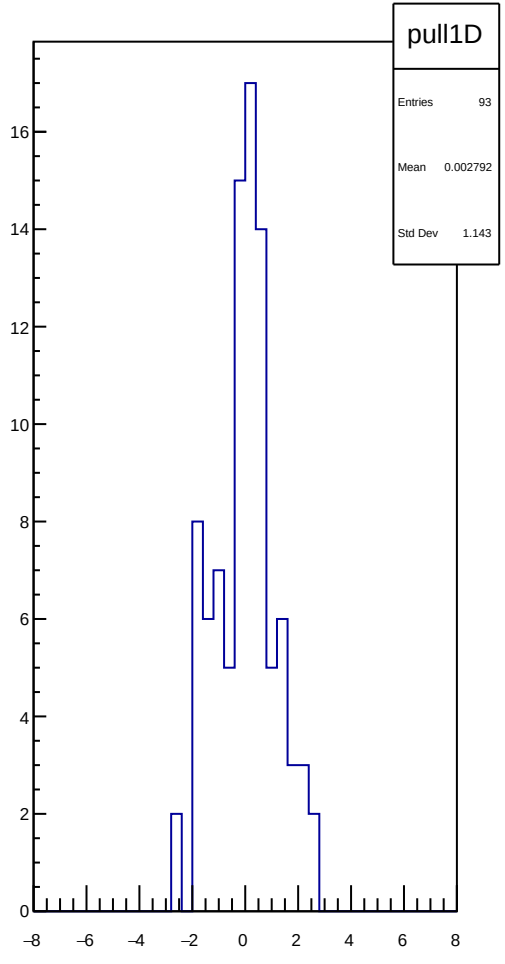

diff_cav4bY_rms vs run
×10^3
χ² / ndf 2548 / 92
p0 3.316e+05 ± 249.4
370
360
350
340
330
320
310
300

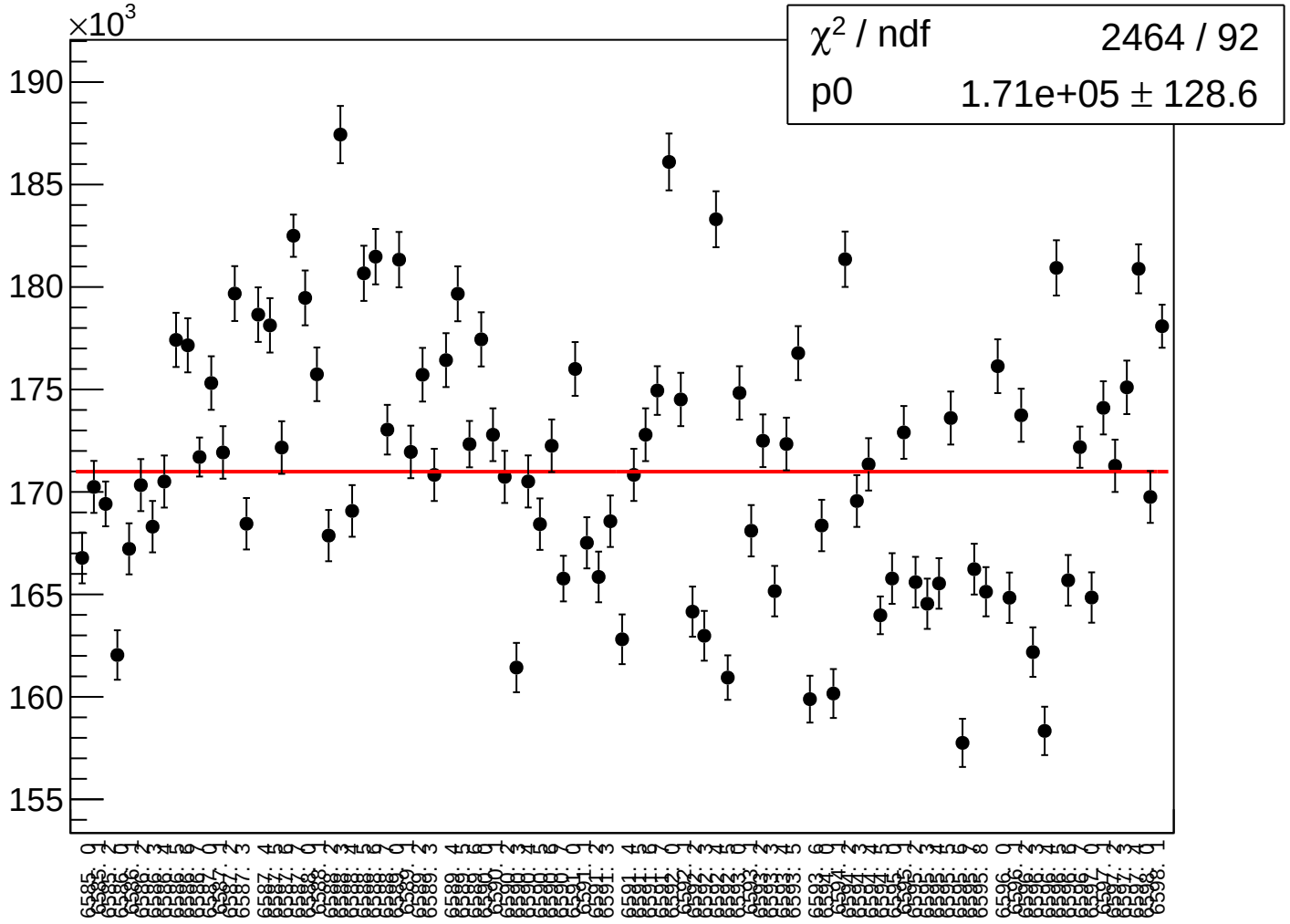

diff_cav4cX_mean vs run
χ^2 / ndf 112.1 / 92
p0 −8.156 ± 228.3
pull
Entries 93
Mean 4082
Std Dev 0

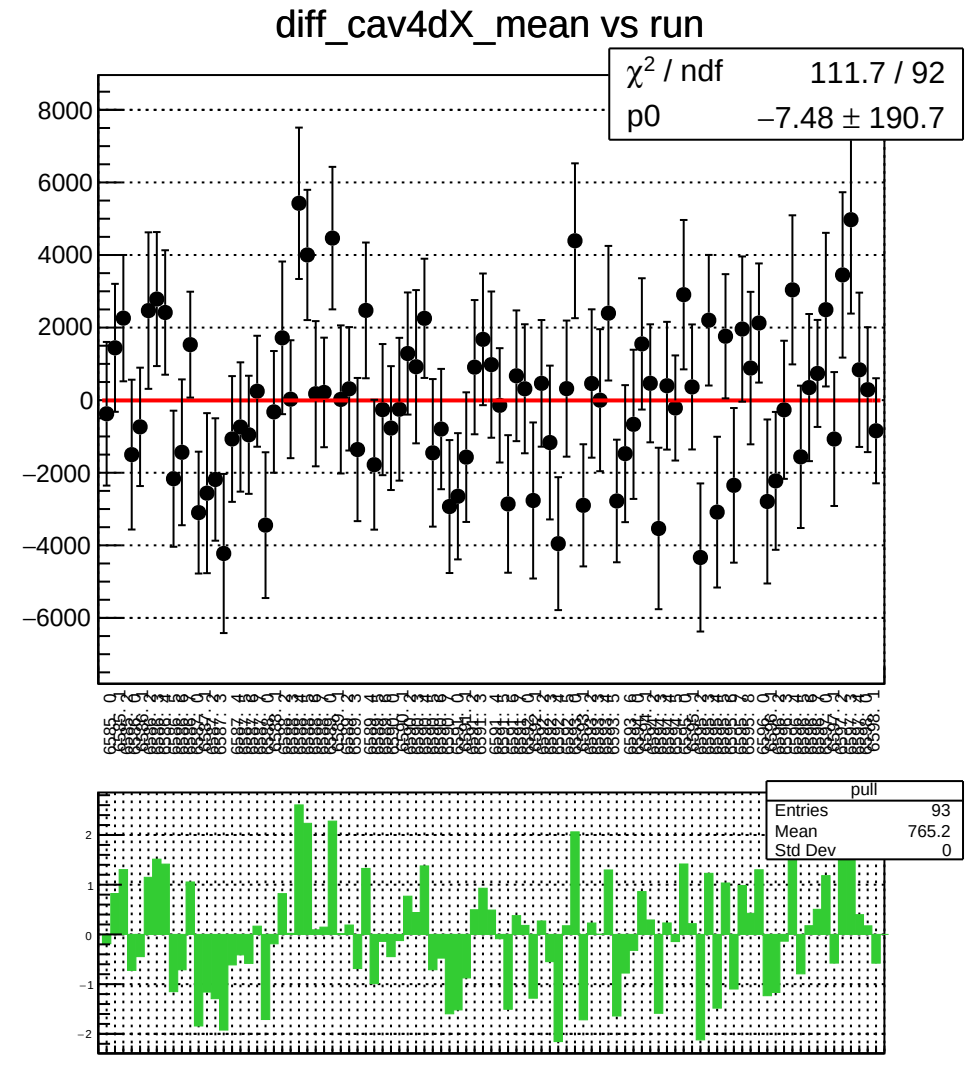

pull1D
Entries 93
Mean 0.0002778
Std Dev 1.098

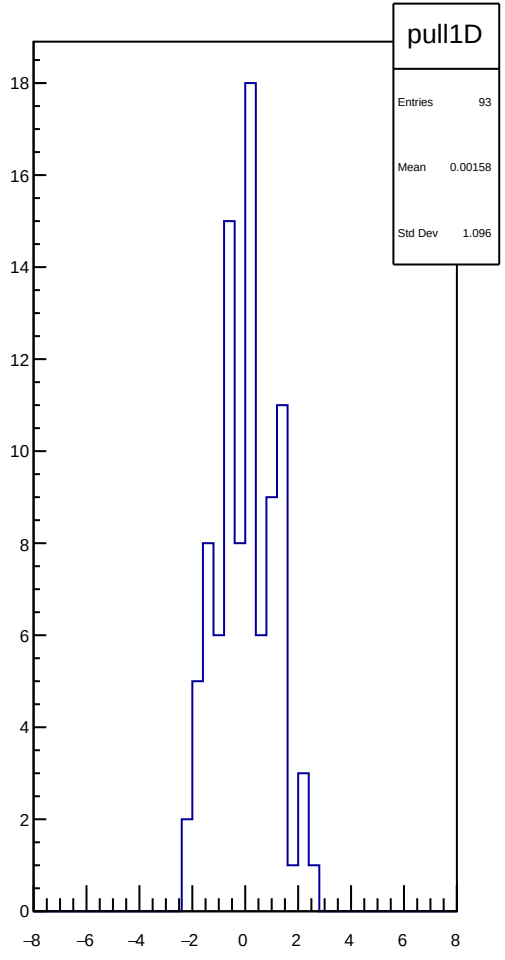

diff_cav4cX_rms vs run
×10^3
χ² / ndf 1.716e+04 / 92
p0 2.137e+05 ± 161.4
300
280
260
240
220
200
180

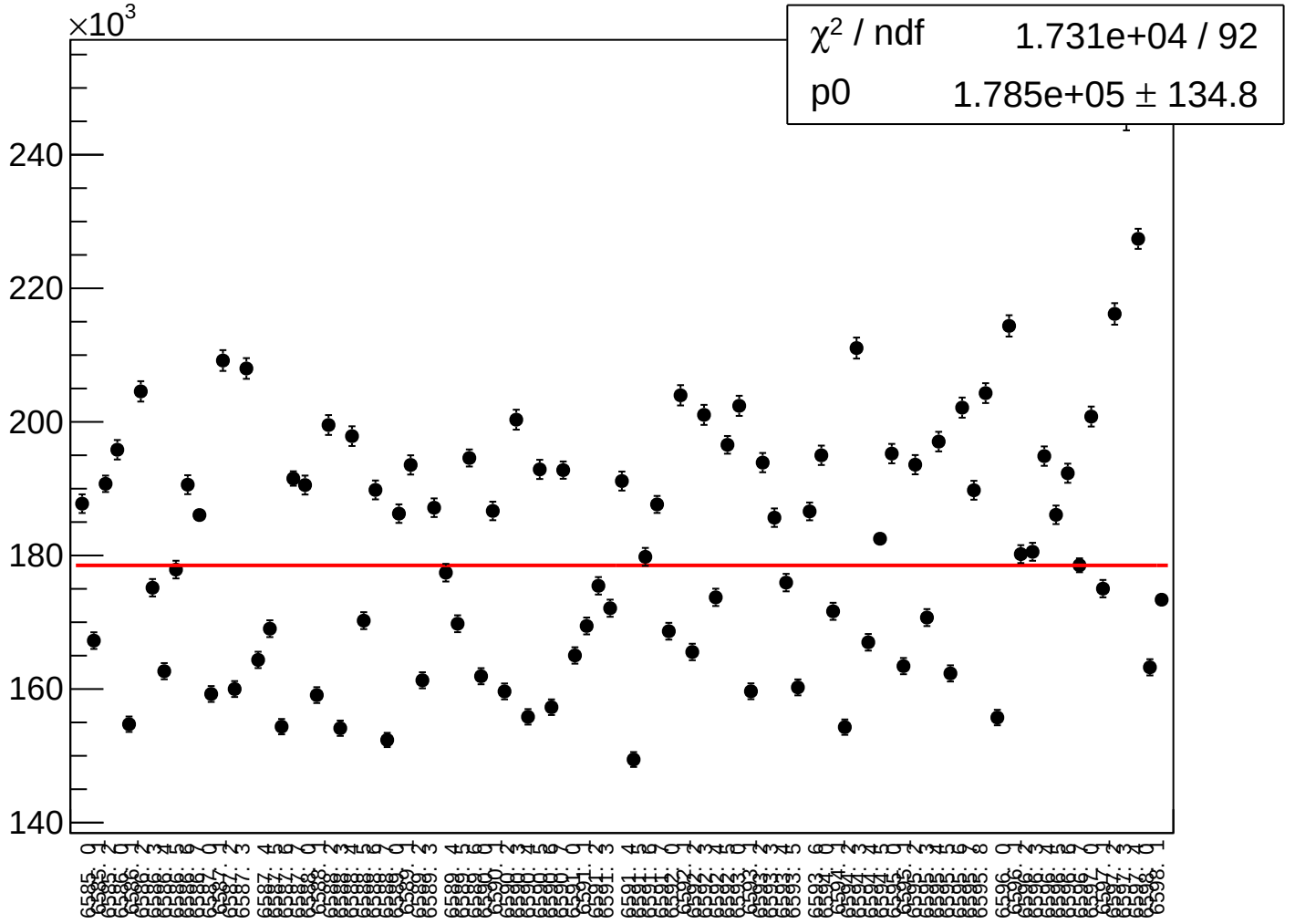

diff_cav4cY_mean vs run
χ^2 / ndf 121.6 / 92
p0 9.055 ± 181.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 868.1
Std Dev 0
2
1
0
−1
−2
−3

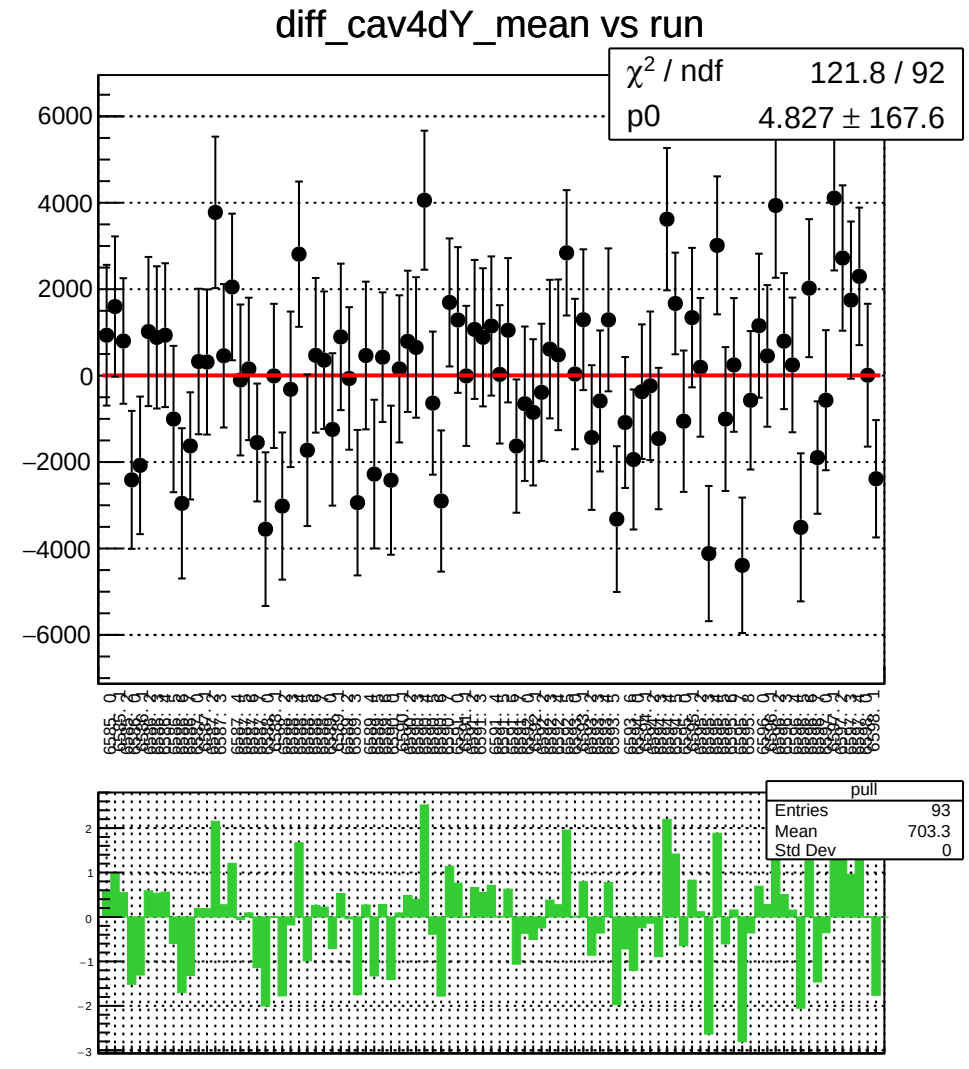

pull1D
Entries 93
Mean 0.002792
Std Dev 1.143
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

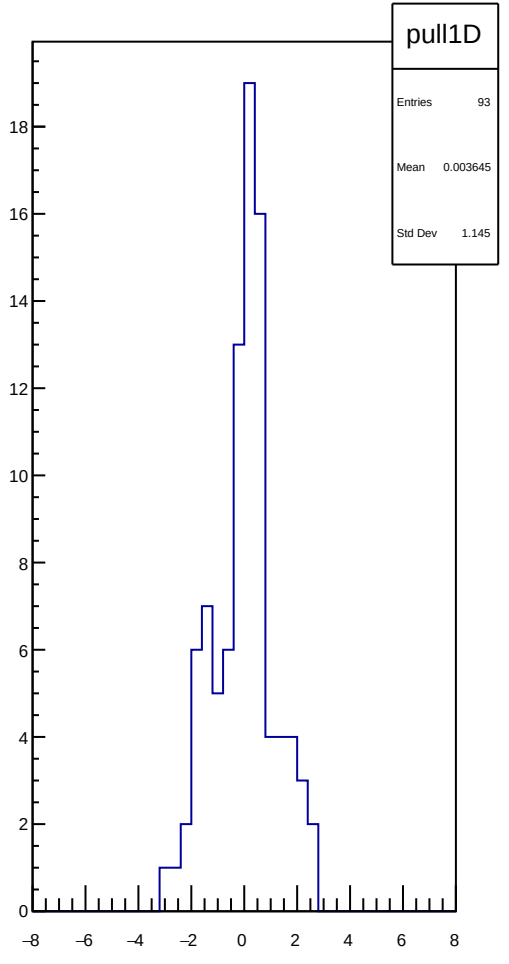

diff_cav4cY_rms vs run
×10^3
χ^2 / ndf 2464 / 92
p0 1.71e+05 ± 128.6
190
185
180
175
170
165
160
155

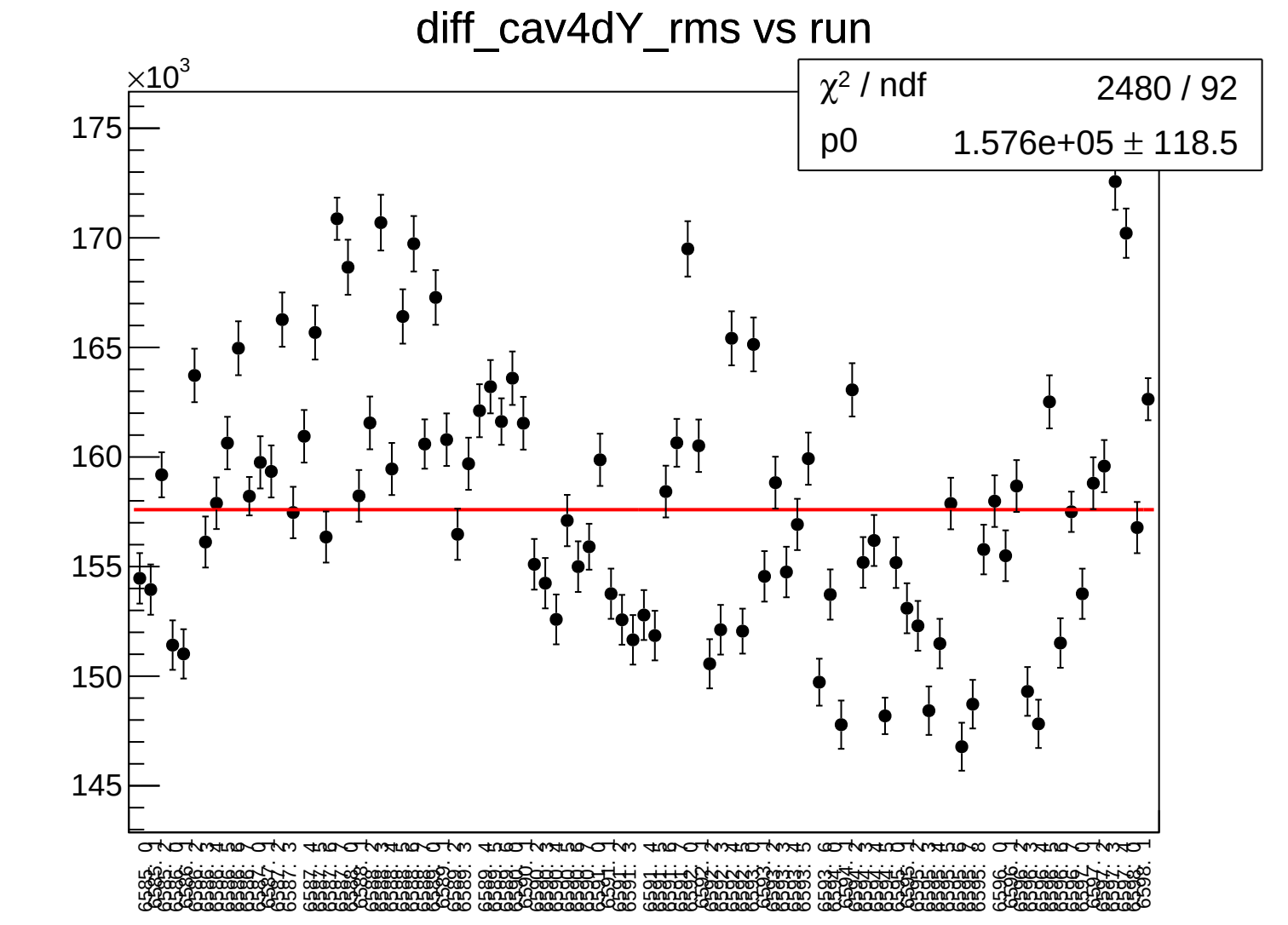

diff_cav4dX_mean vs run
χ² / ndf 111.7 / 92
p0 −7.48 ± 190.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 765.2
Std Dev 0
2
1
0
−1
−2

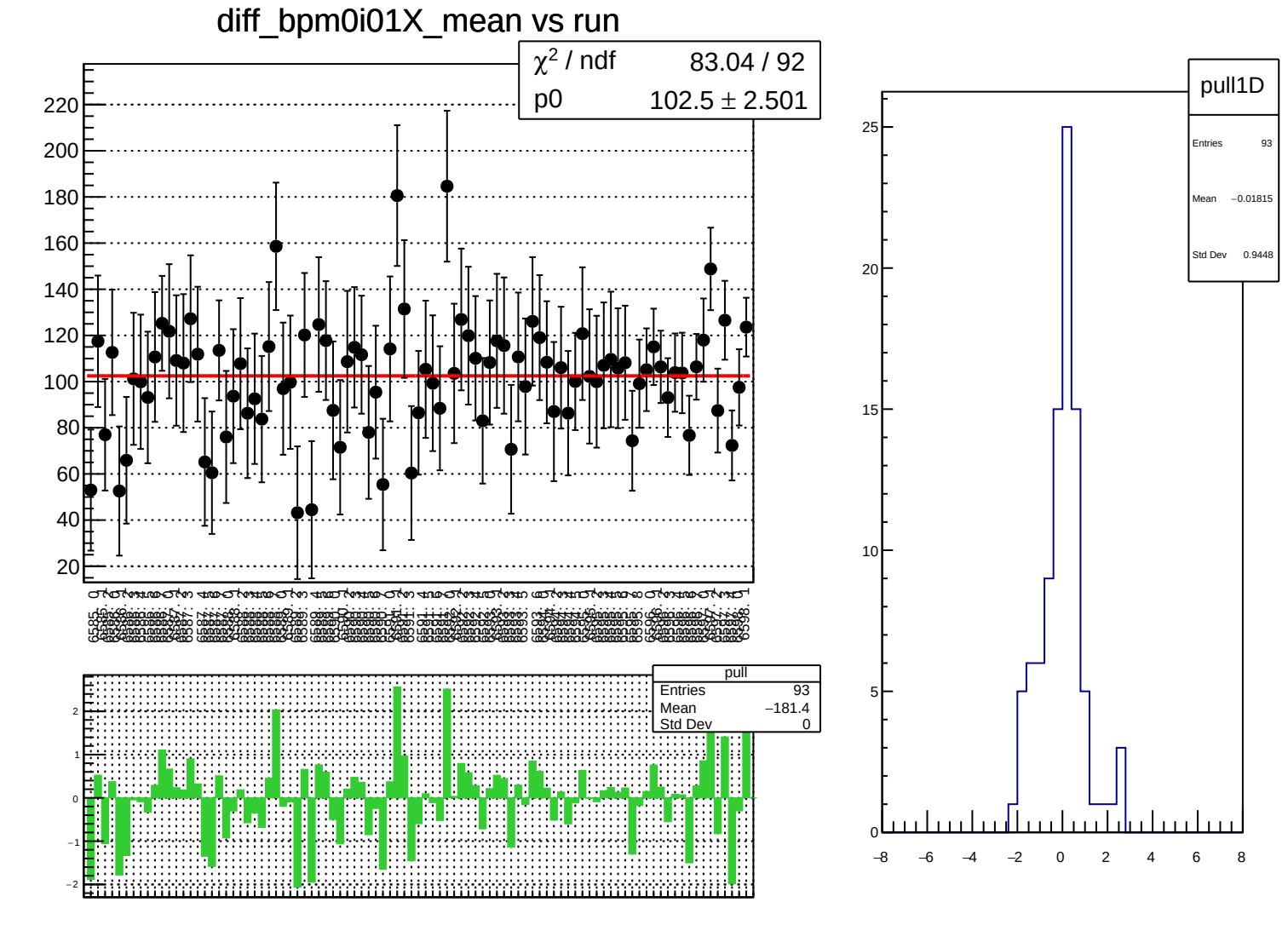

pull1D
Entries 93
Mean 0.00158
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

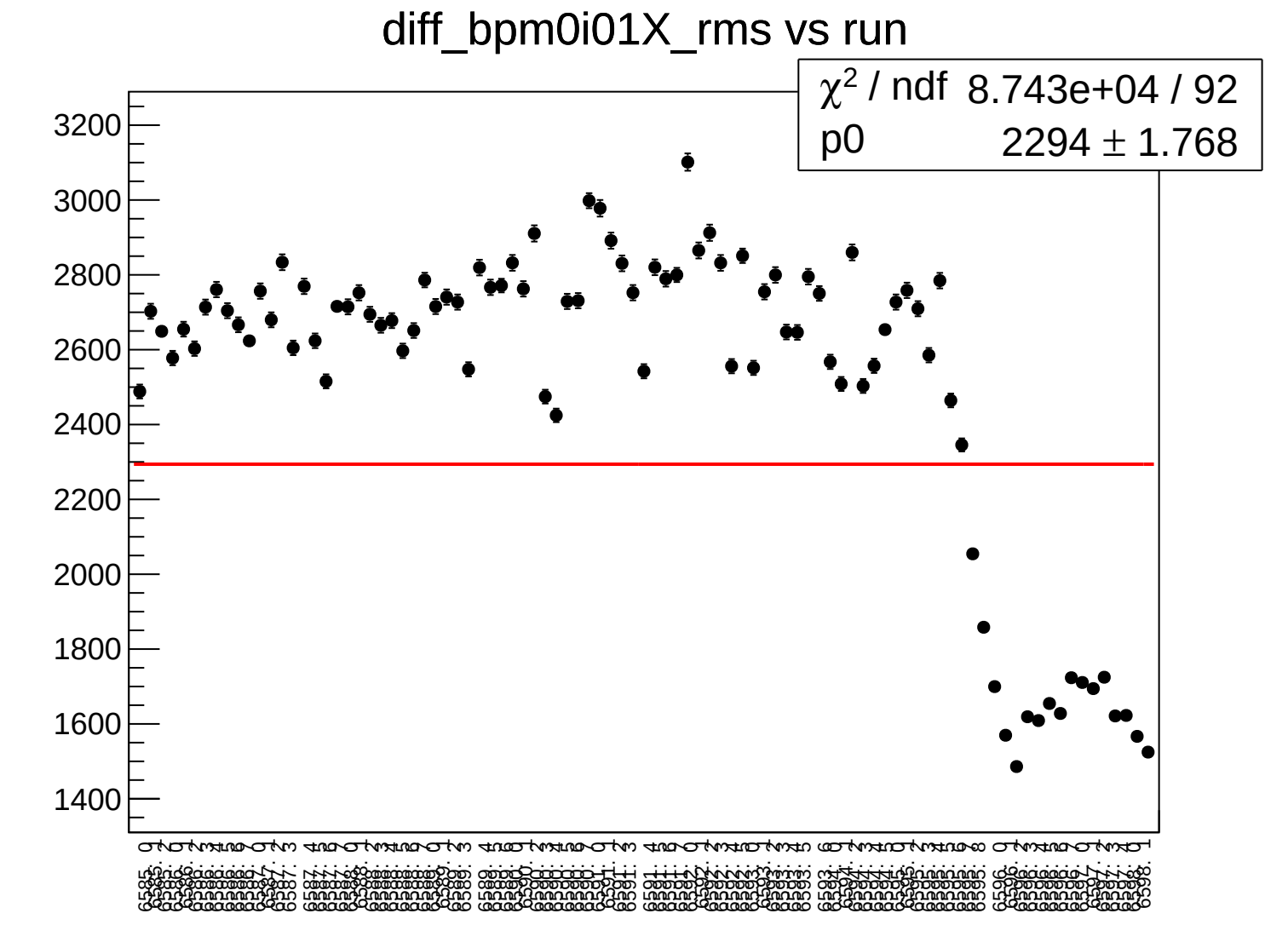

diff_cav4dX_rms vs run
×10^3
χ^2 / ndf 1.731e+04 / 92
p0 1.785e+05 ± 134.8
240
220
200
180
160
140

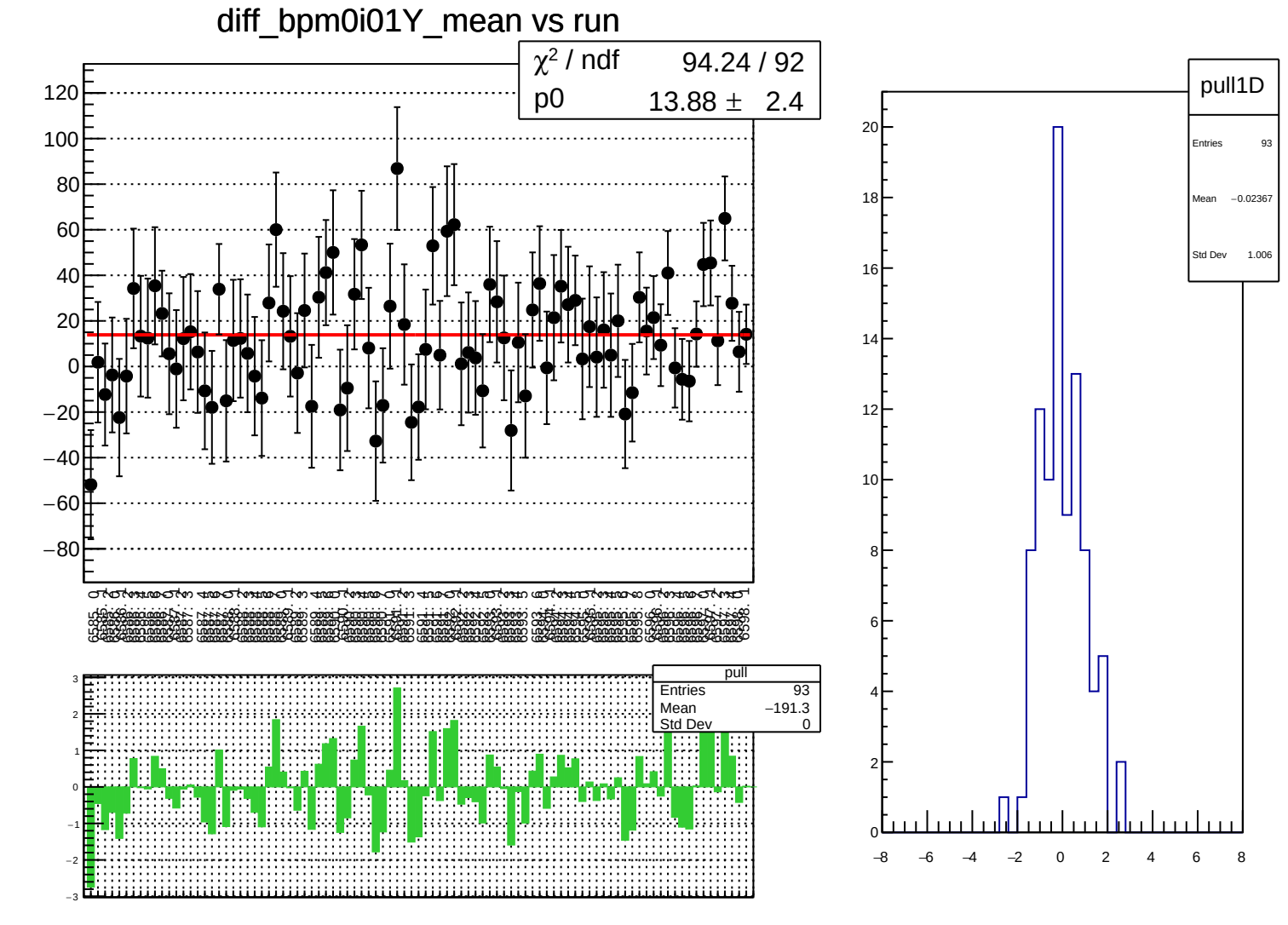

diff_cav4dY_mean vs run
χ² / ndf 121.8 / 92
p0 4.827 ± 167.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 703.3
Std Dev 0
2
1
0
−1
−2
−3

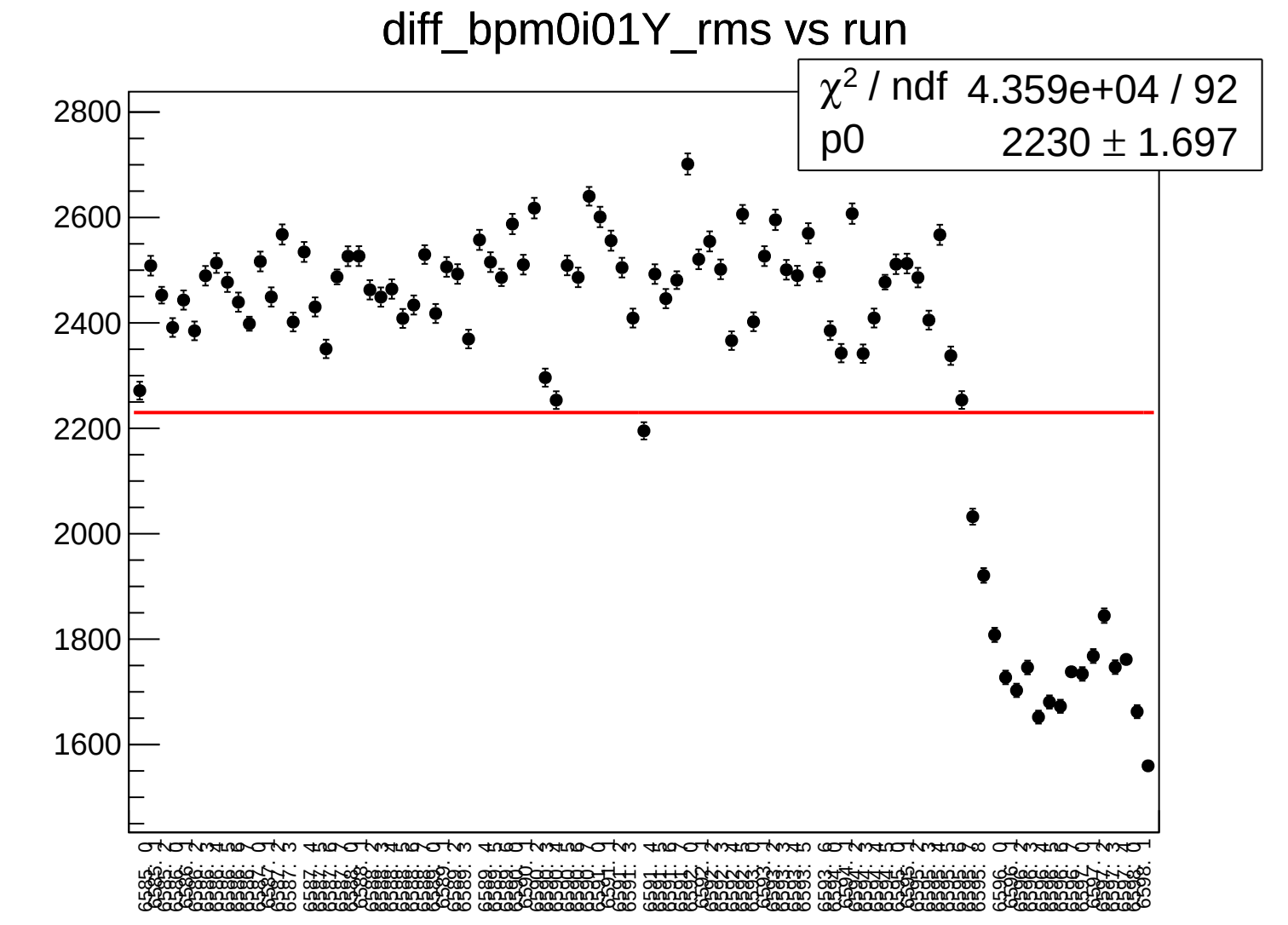

pull1D
Entries 93
Mean 0.003645
Std Dev 1.145
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

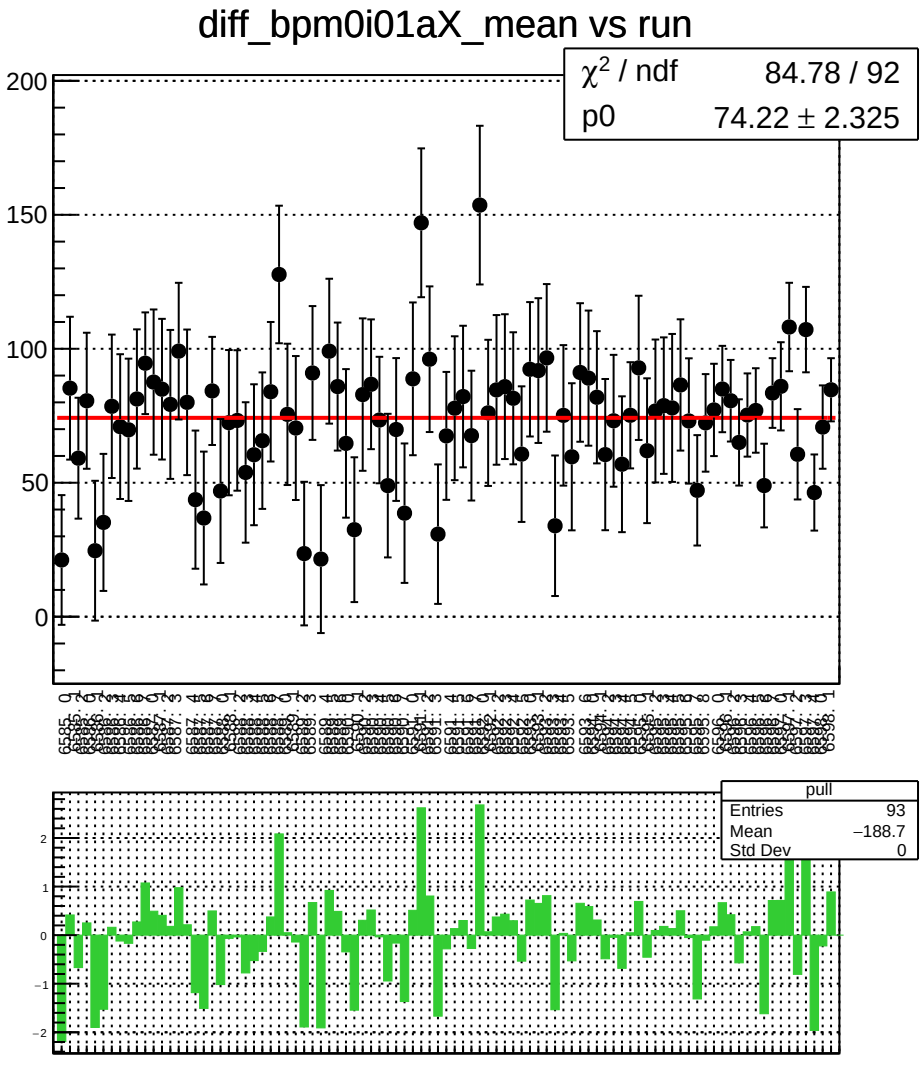

diff_cav4dY_rms vs run
×10^3
175
170
165
160
155
150
145
χ² / ndf 2480 / 92
p0 1.576e+05 ± 118.5

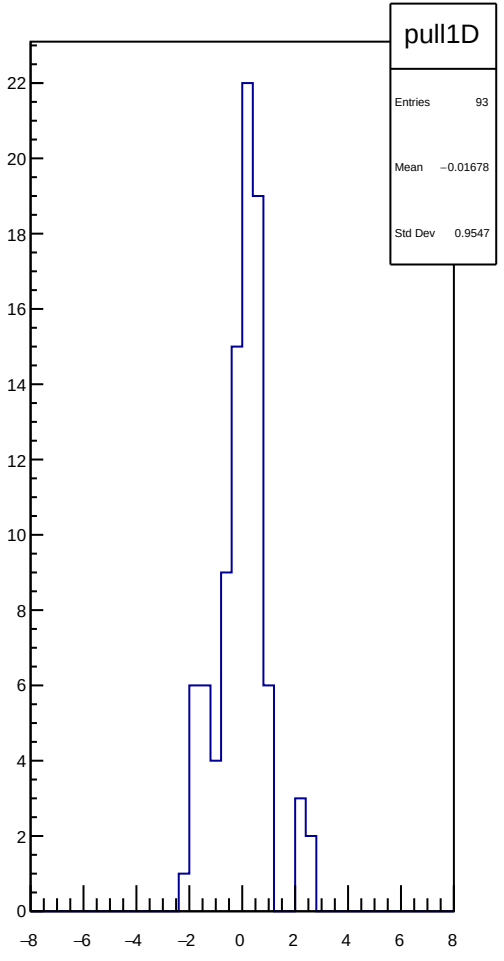

diff_bpm0i01X_mean vs run
χ^2 / ndf 83.04 / 92
p0 102.5 ± 2.501
pull
Entries 93
Mean −181.4
Std Dev 0
pull1D
Entries 93
Mean −0.01815
Std Dev 0.9448

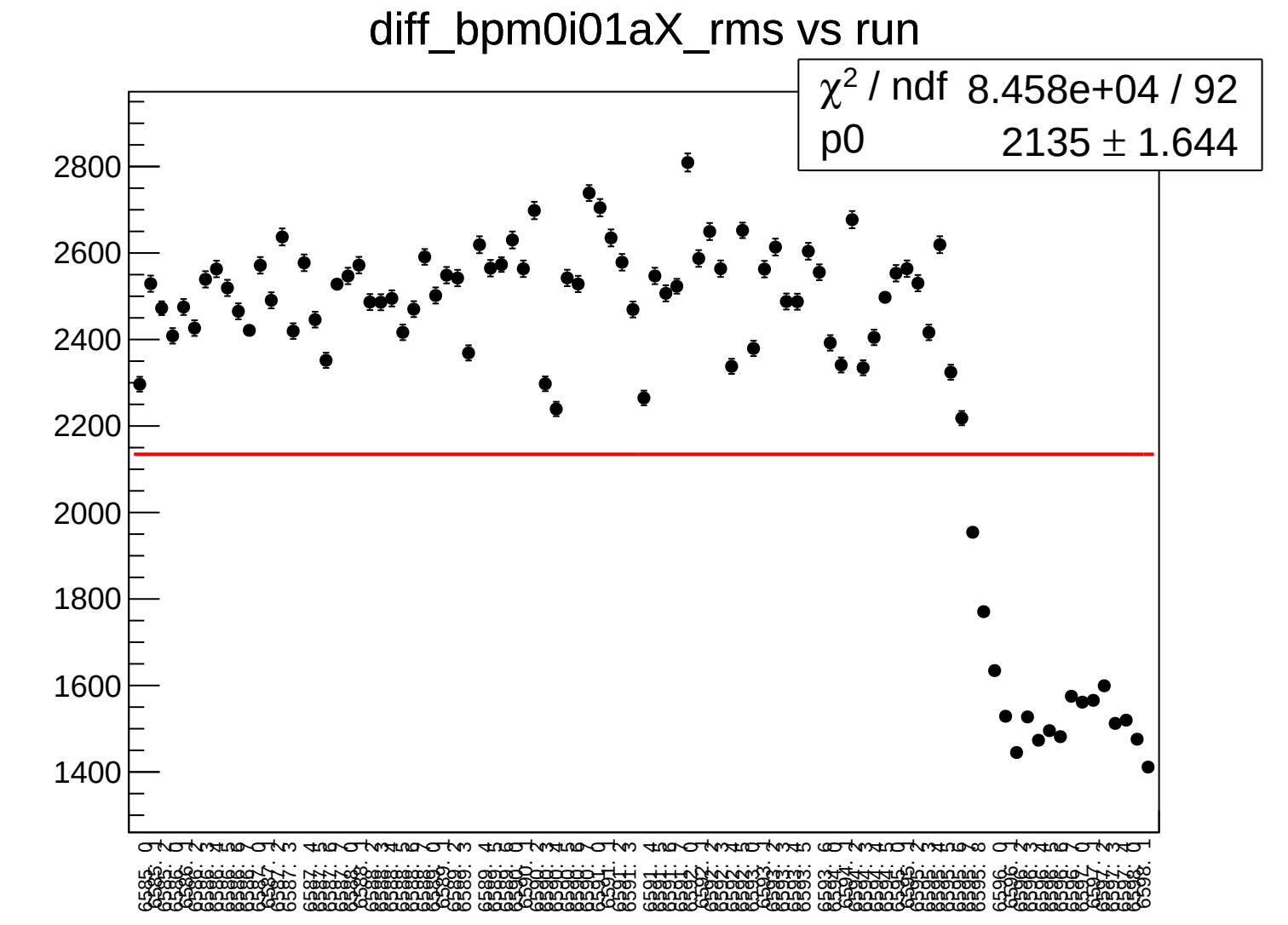

diff_bpm0i01X_rms vs run
χ² / ndf 8.743e+04 / 92
p0 2294 ± 1.768
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

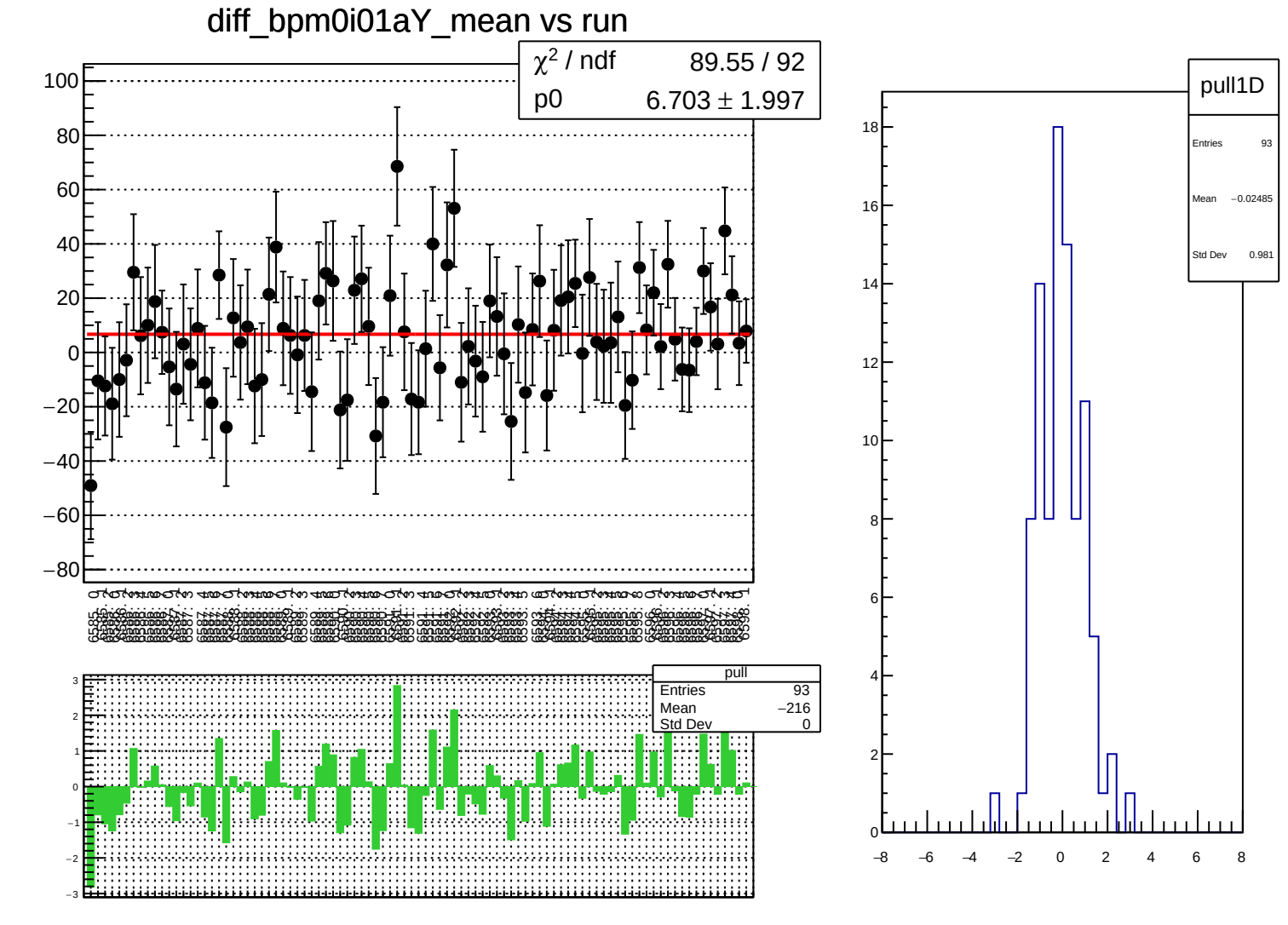

diff_bpm0i01Y_mean vs run
χ² / ndf 94.24 / 92
p0 13.88 ± 2.4
pull
Entries 93
Mean −191.3
Std Dev 0
pull1D
Entries 93
Mean −0.02367
Std Dev 1.006

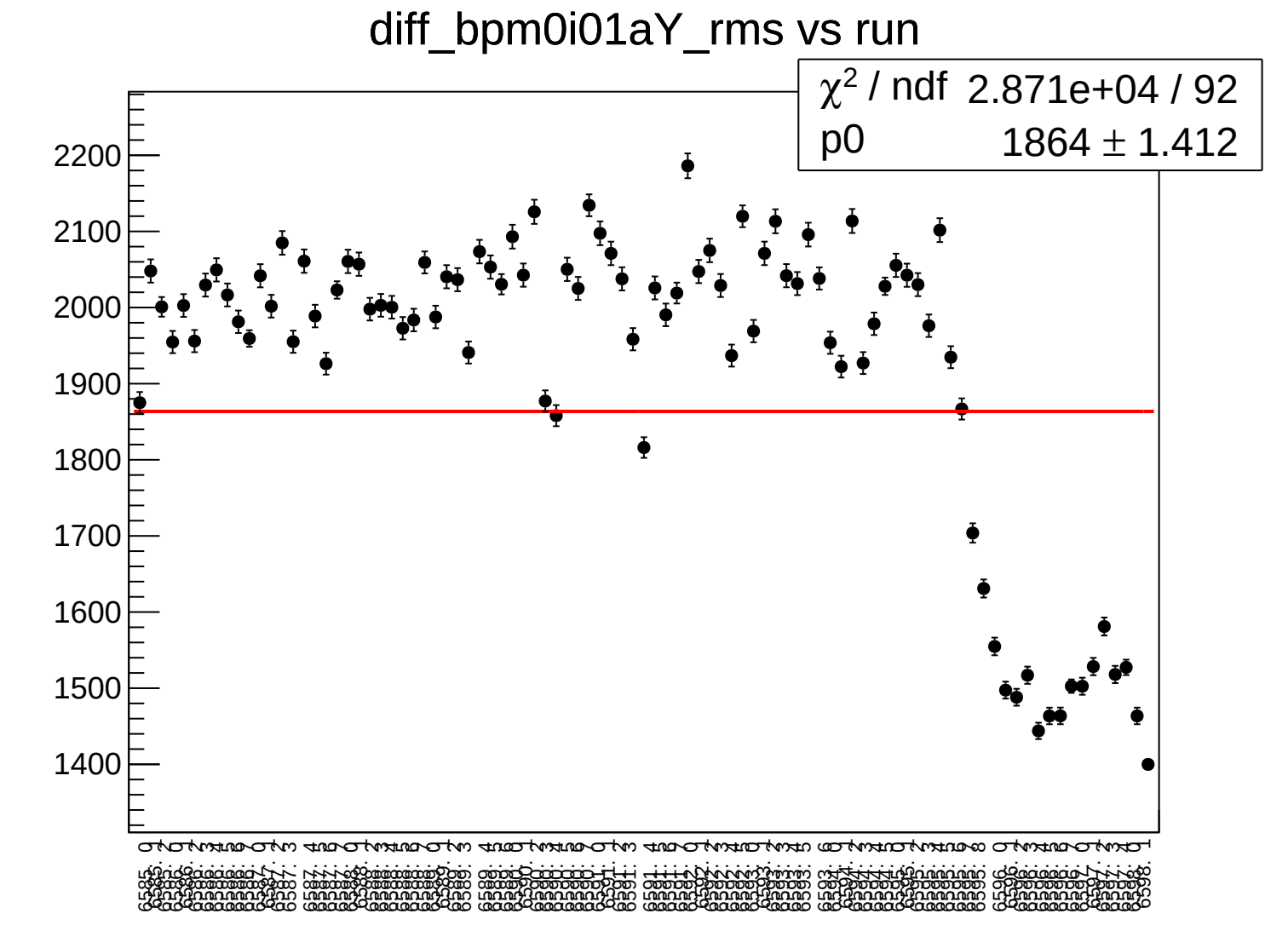

diff_bpm0i01Y_rms vs run
χ² / ndf 4.359e+04 / 92
p0 2230 ± 1.697
2800
2600
2400
2200
2000
1800
1600

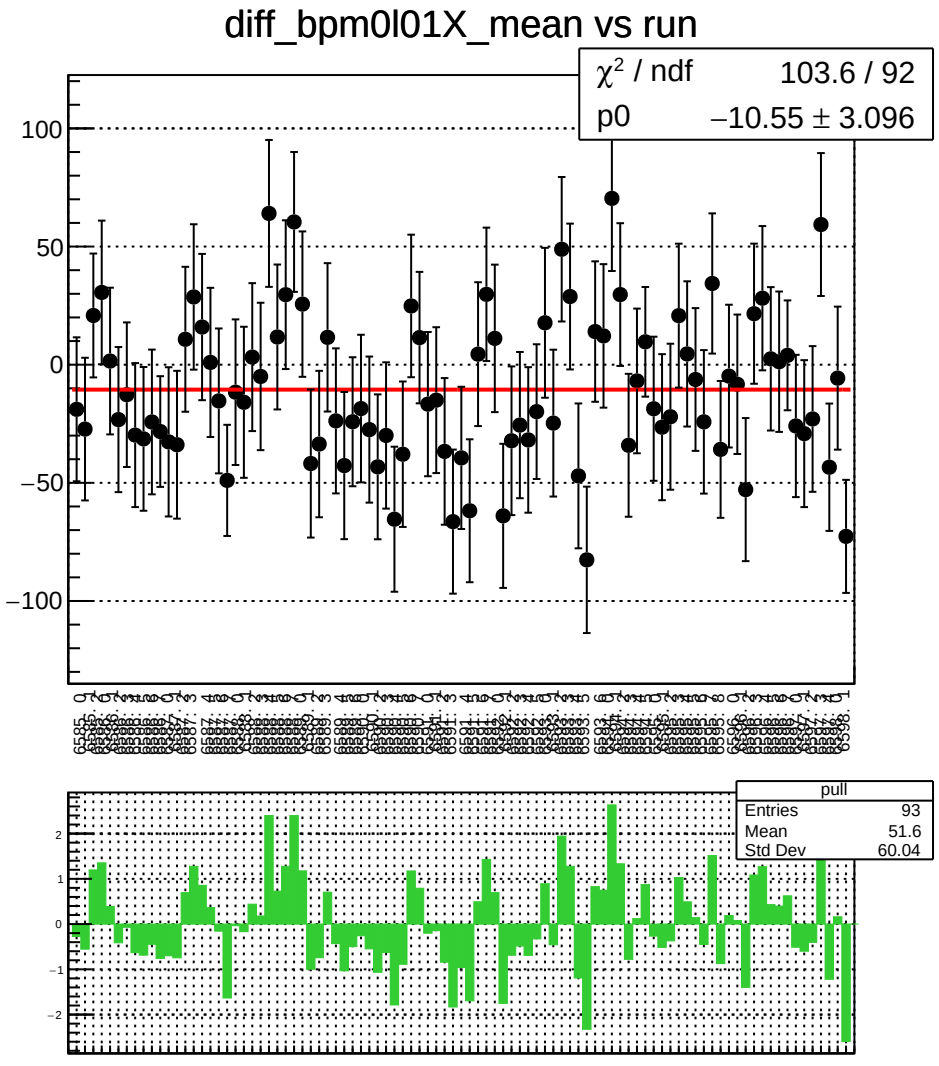

diff_bpm0i01aX_mean vs run
χ^2 / ndf 84.78 / 92
p0 74.22 ± 2.325
200
150
100
50
0
pull
Entries 93
Mean −188.7
Std Dev 0
2
1
0
−1
−2

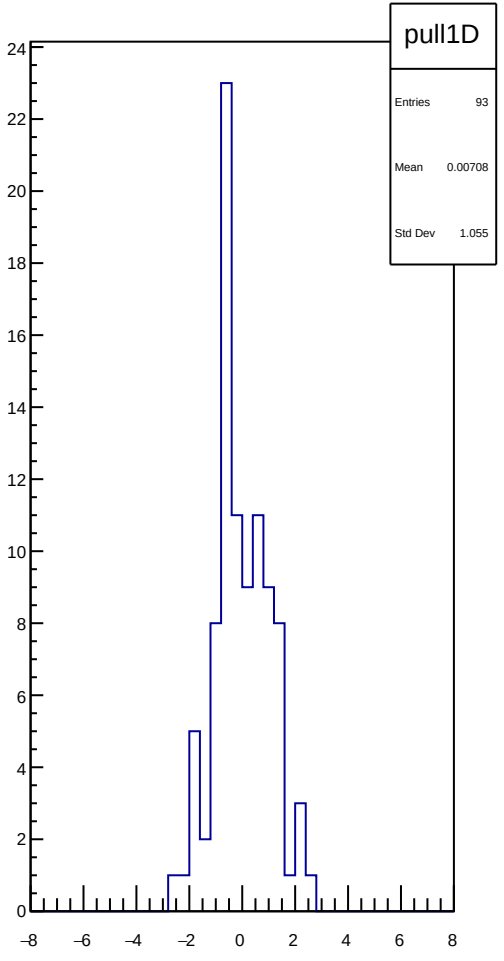

pull1D
Entries 93
Mean −0.01678
Std Dev 0.9547
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

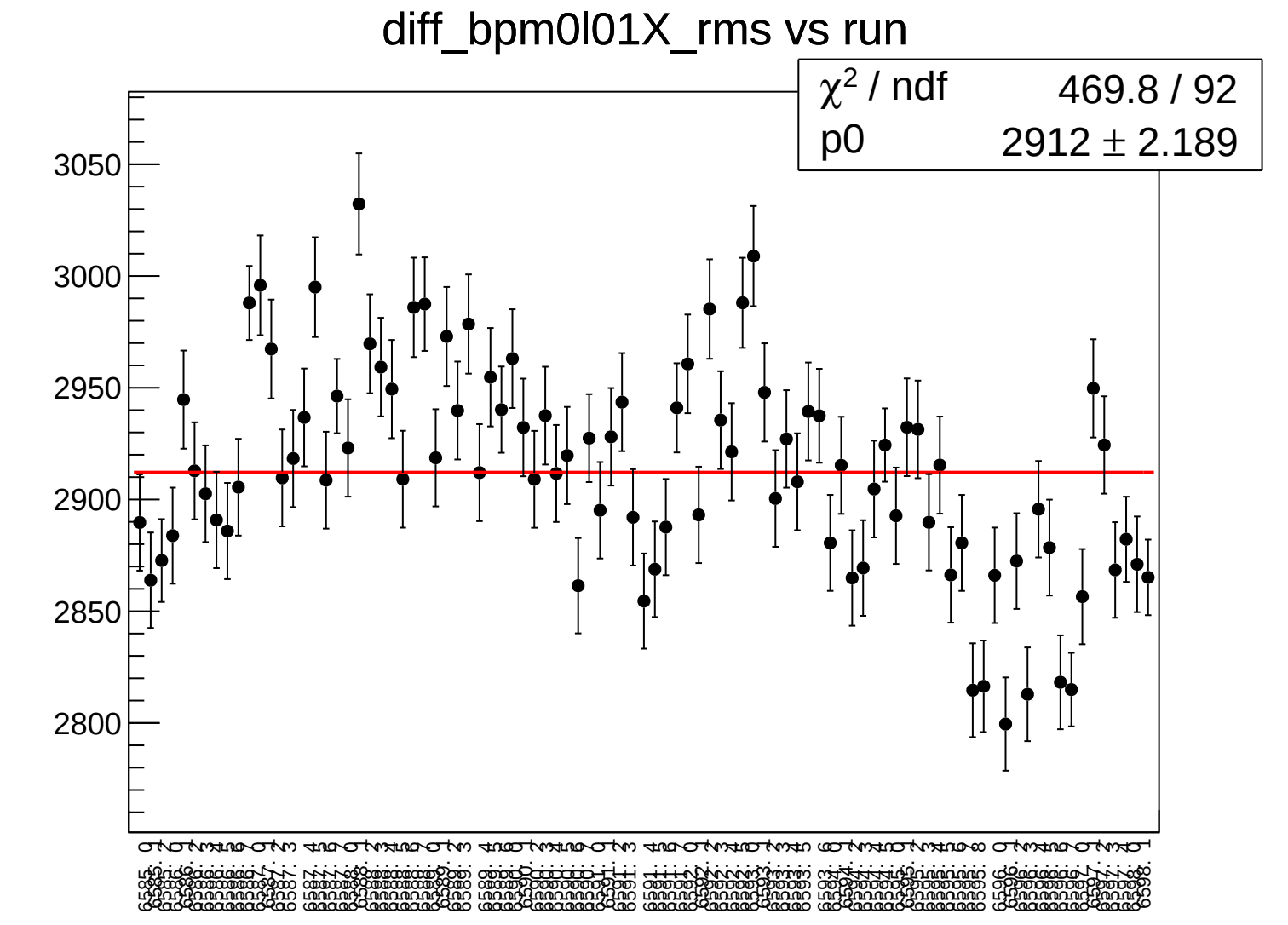

diff_bpm0i01aX_rms vs run
χ² / ndf 8.458e+04 / 92
p0 2135 ± 1.644
2800
2600
2400
2200
2000
1800
1600
1400

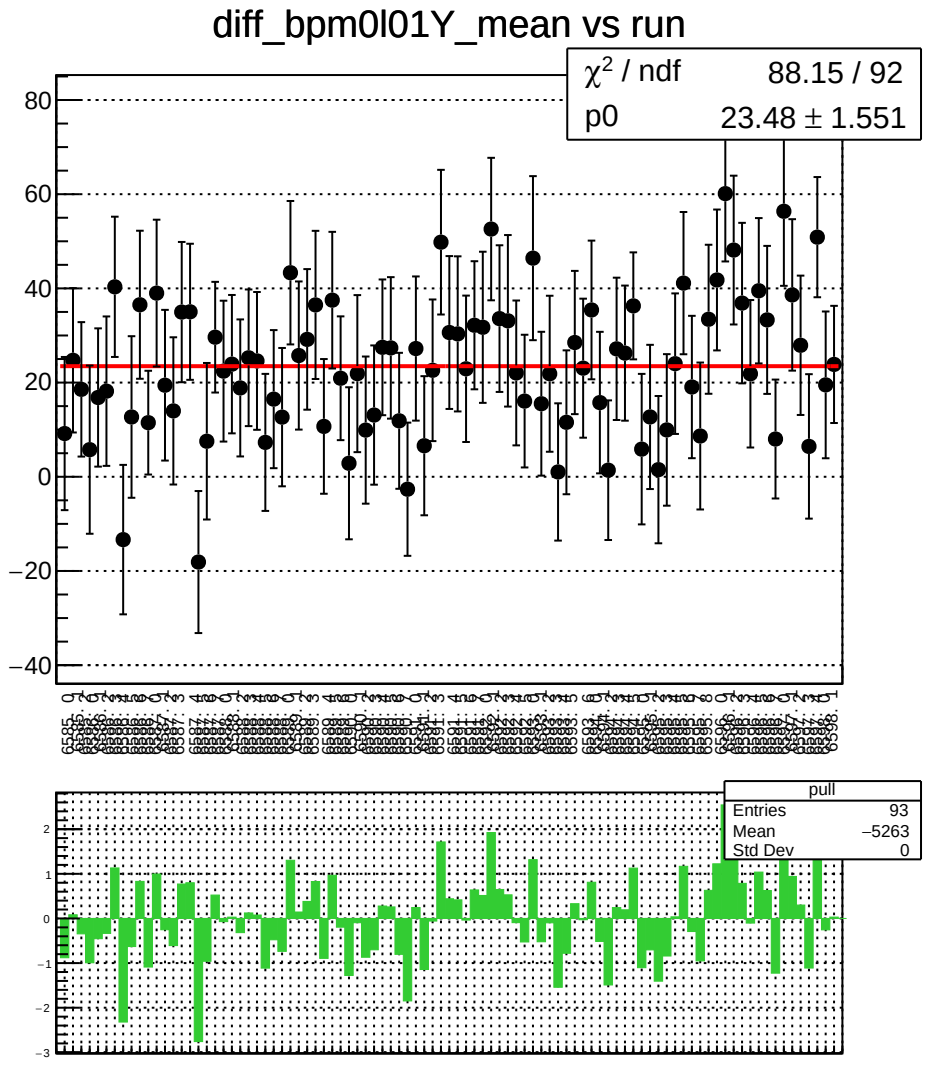

diff_bpm0i01aY_mean vs run
χ² / ndf 89.55 / 92
p0 6.703 ± 1.997
pull
Entries 93
Mean −216
Std Dev 0
pull1D
Entries 93
Mean −0.02485
Std Dev 0.981

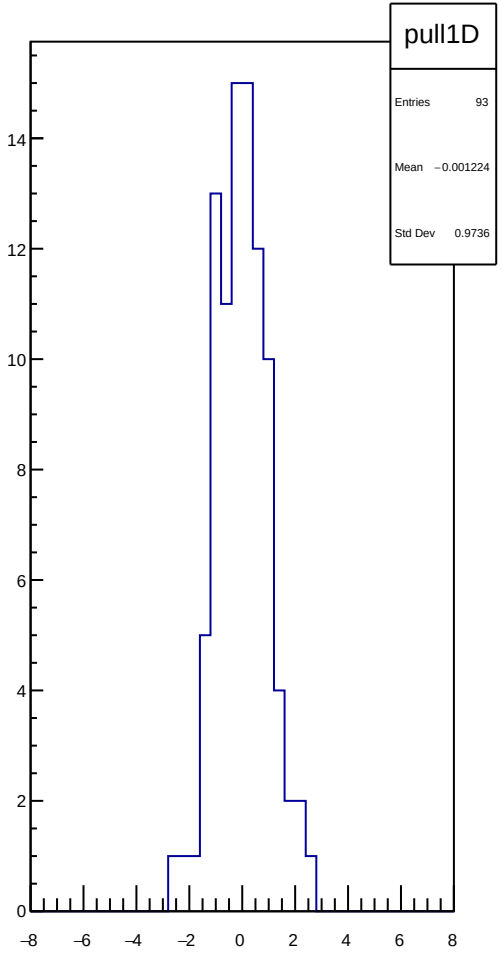

diff_bpm0i01aY_rms vs run
χ² / ndf 2.871e+04 / 92
p0 1864 ± 1.412
2200
2100
2000
1900
1800
1700
1600
1500
1400

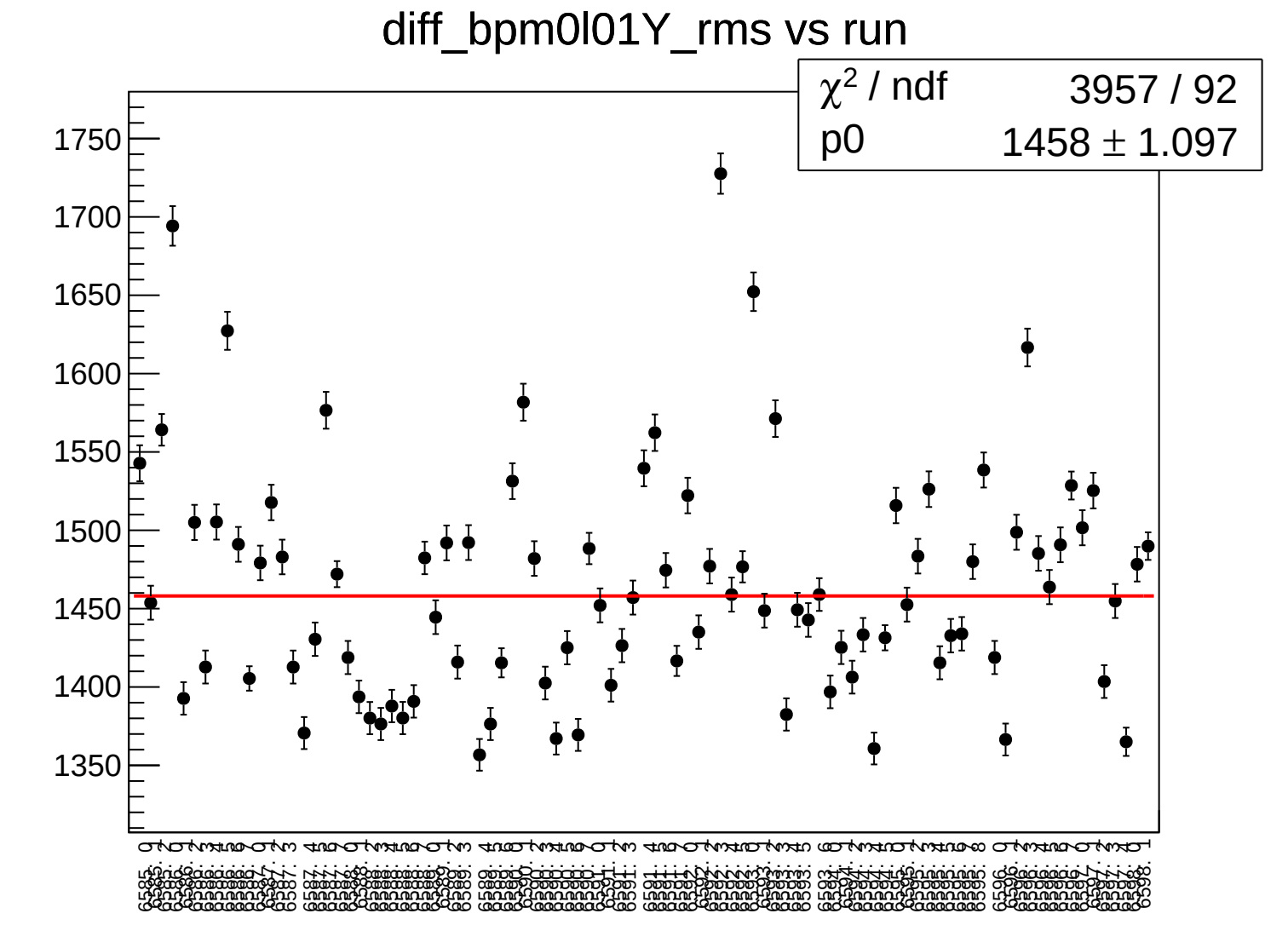

diff_bpm0l01X_mean vs run
χ² / ndf 103.6 / 92
p0 −10.55 ± 3.096
100
50
0
−50
−100
pull
Entries 93
Mean 51.6
Std Dev 60.04
2
1
0
−1
−2

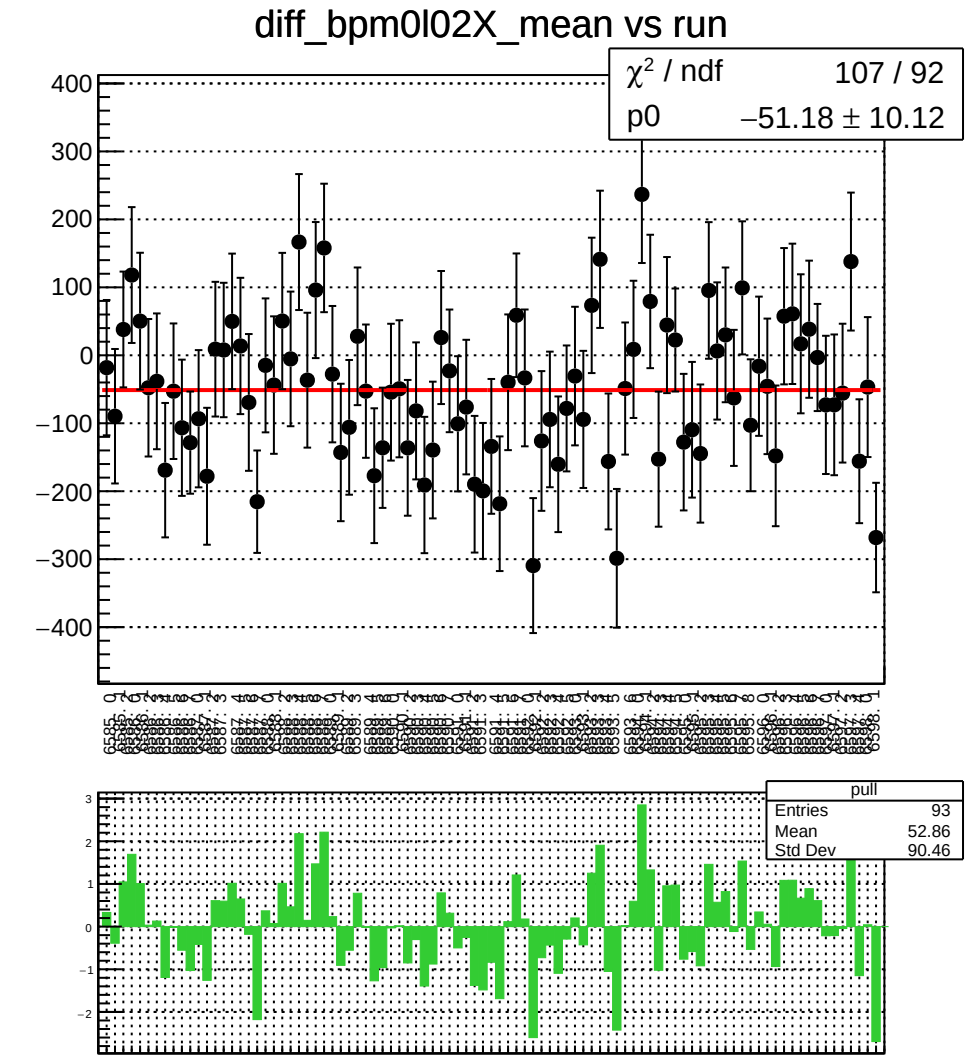

pull1D
Entries 93
Mean 0.00708
Std Dev 1.055
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

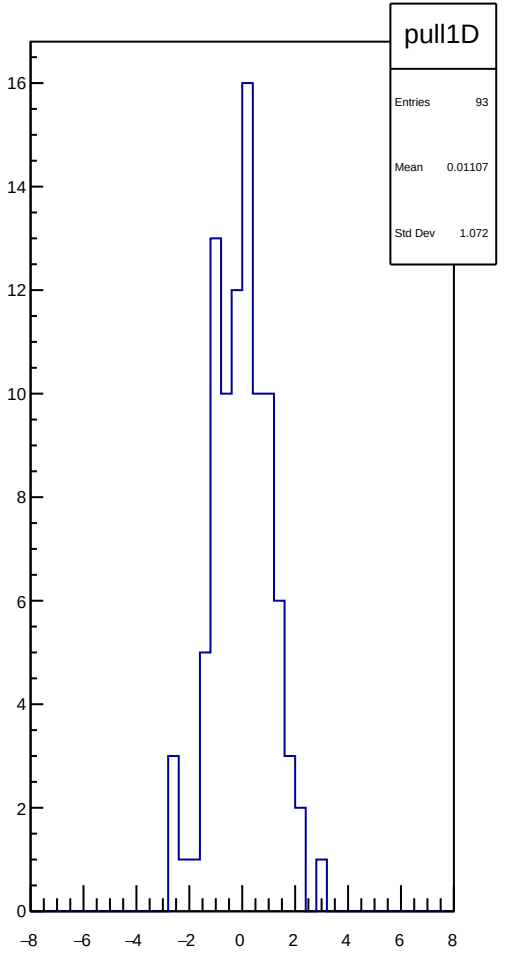

diff_bpm0l01X_rms vs run
χ² / ndf 469.8 / 92
p0 2912 ± 2.189
3050
3000
2950
2900
2850
2800

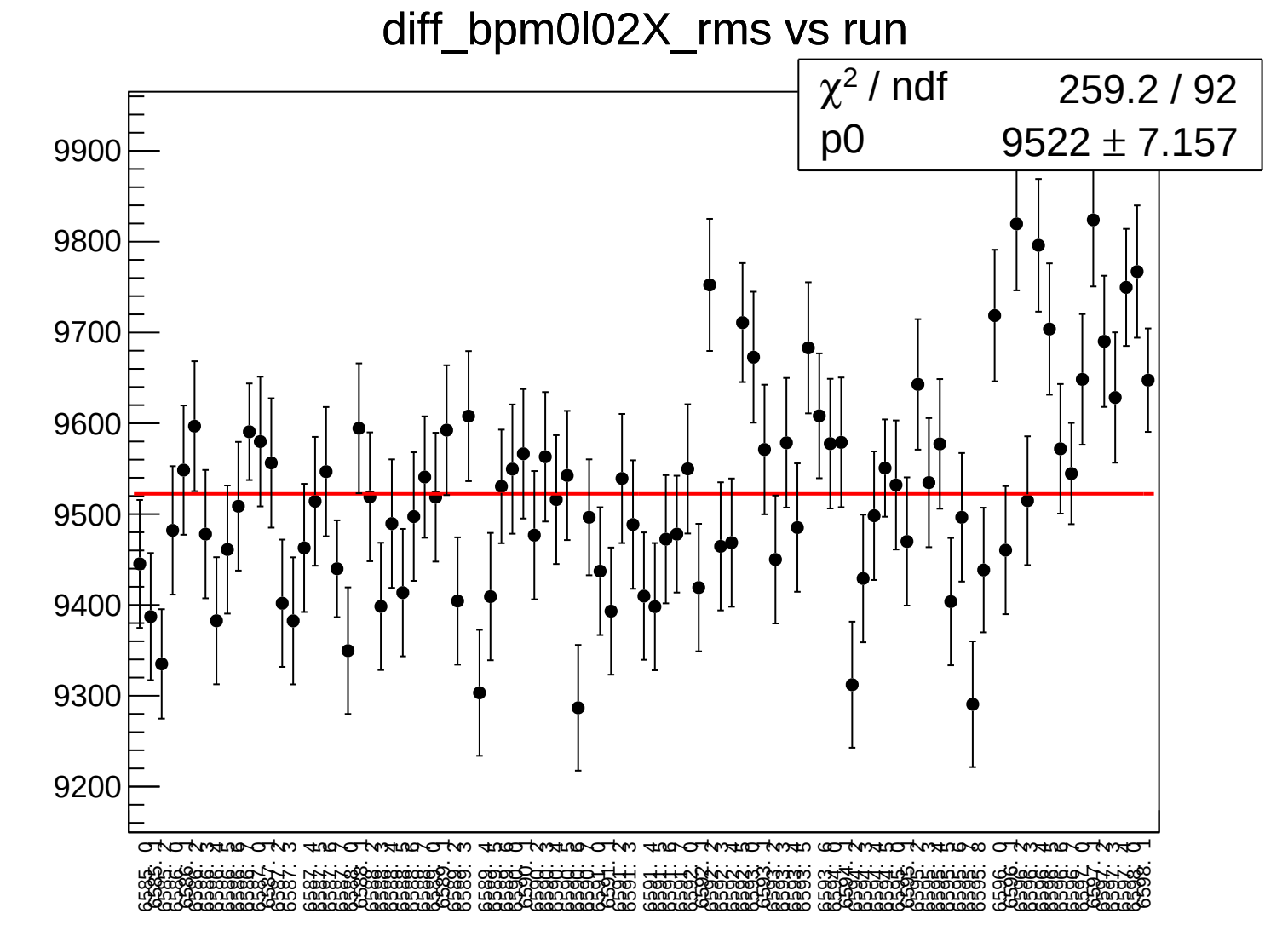

diff_bpm0l01Y_mean vs run
χ^2 / ndf 88.15 / 92
p0 23.48 ± 1.551
pull
Entries 93
Mean −5263
Std Dev 0

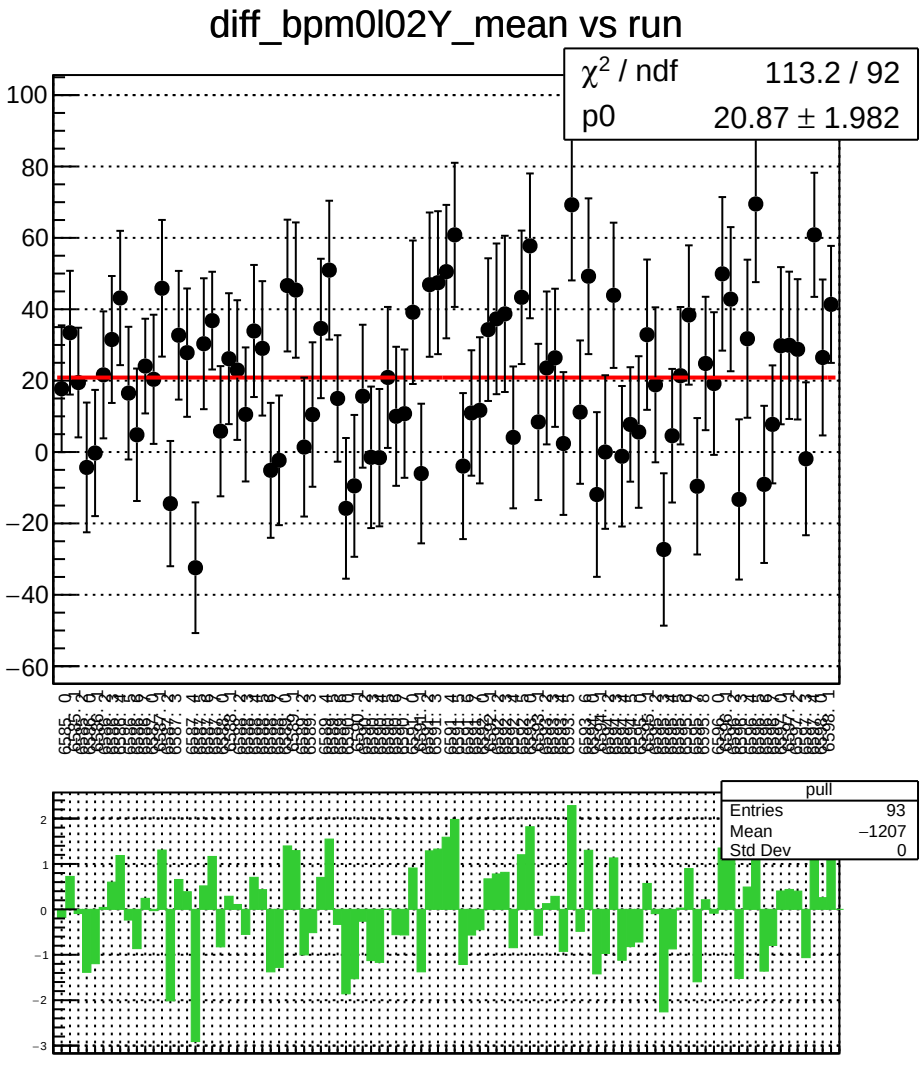

pull1D
Entries 93
Mean −0.001224
Std Dev 0.9736

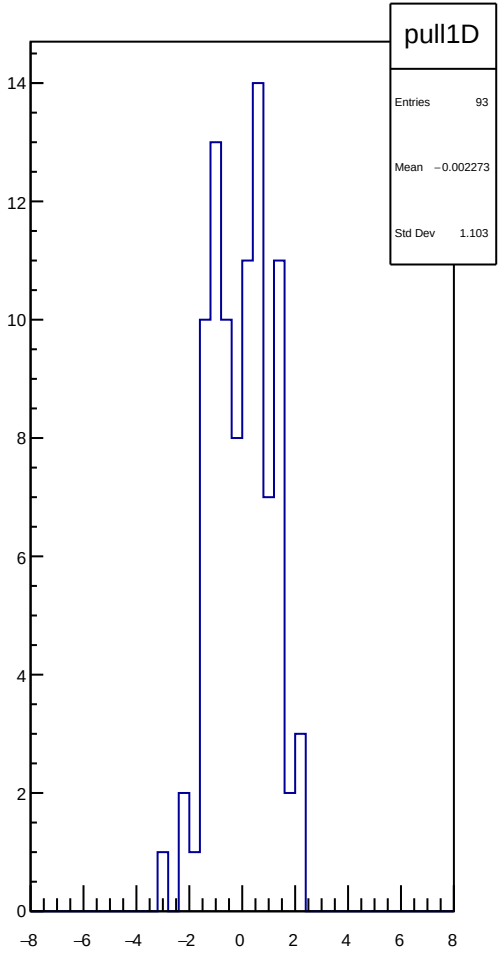

diff_bpm0l01Y_rms vs run
χ² / ndf 3957 / 92
p0 1458 ± 1.097
1750
1700
1650
1600
1550
1500
1450
1400
1350

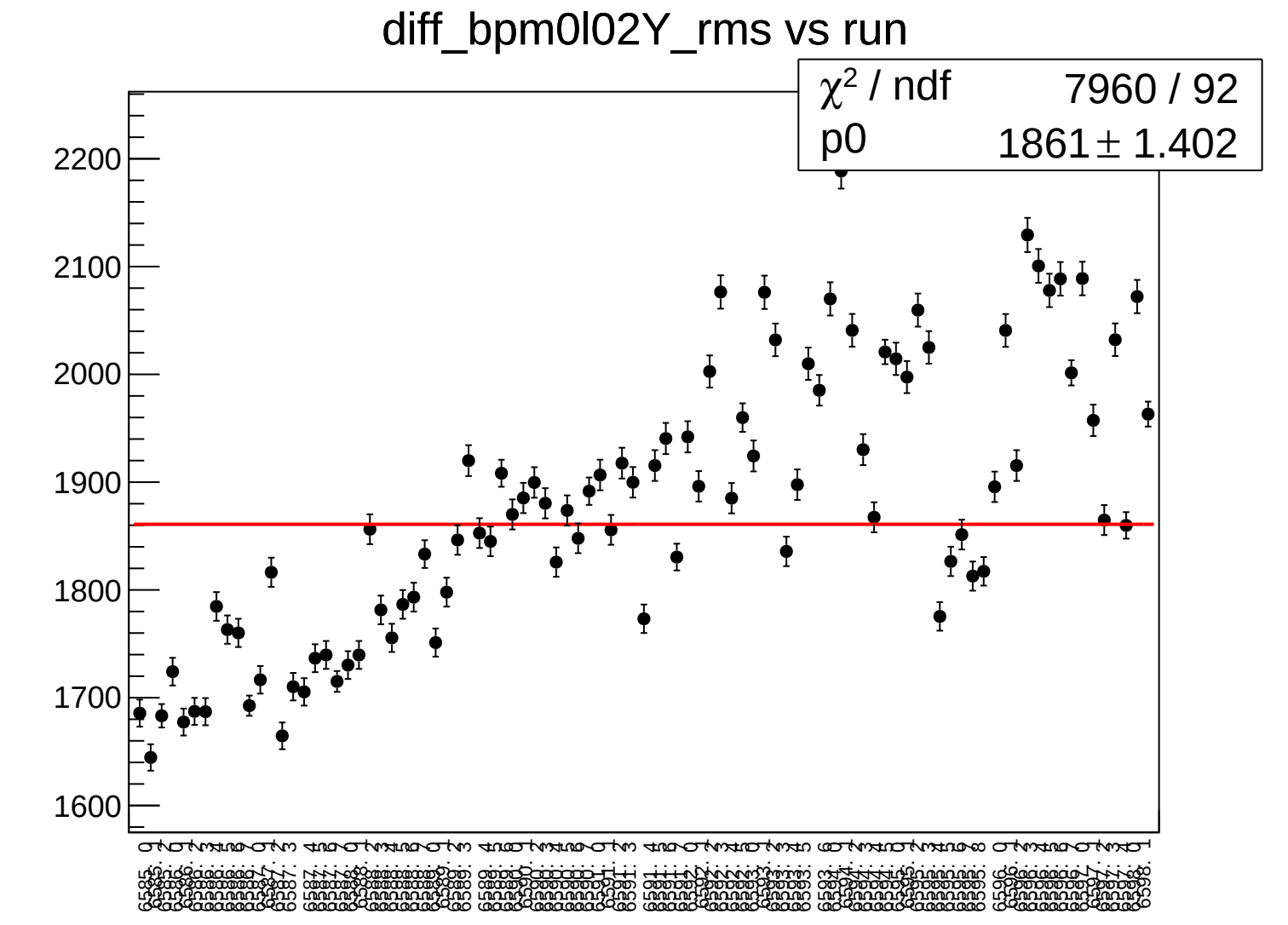

diff_bpm0l02X_mean vs run
χ² / ndf 107 / 92
p0 −51.18 ± 10.12
pull
Entries 93
Mean 52.86
Std Dev 90.46

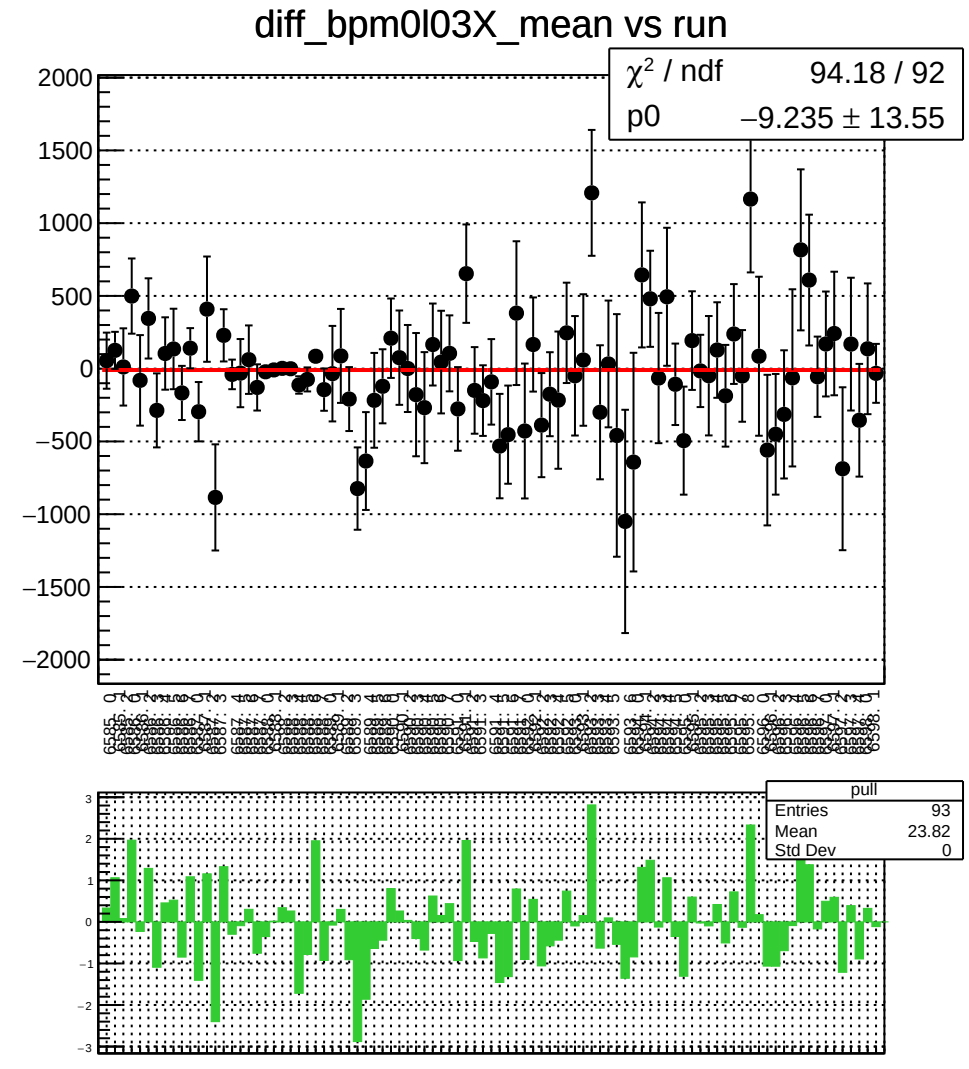

pull1D
Entries 93
Mean 0.01107
Std Dev 1.072

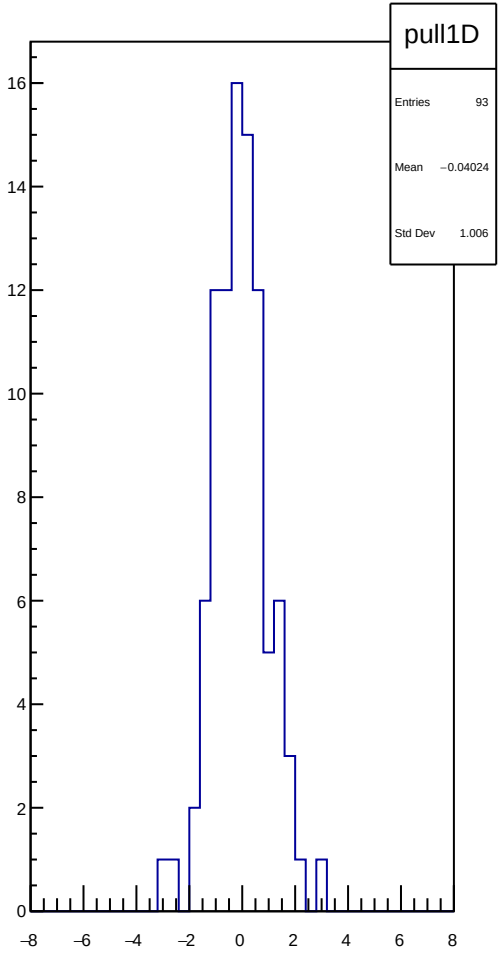

diff_bpm0l02X_rms vs run
χ² / ndf 259.2 / 92
p0 9522 ± 7.157
9900
9800
9700
9600
9500
9400
9300
9200

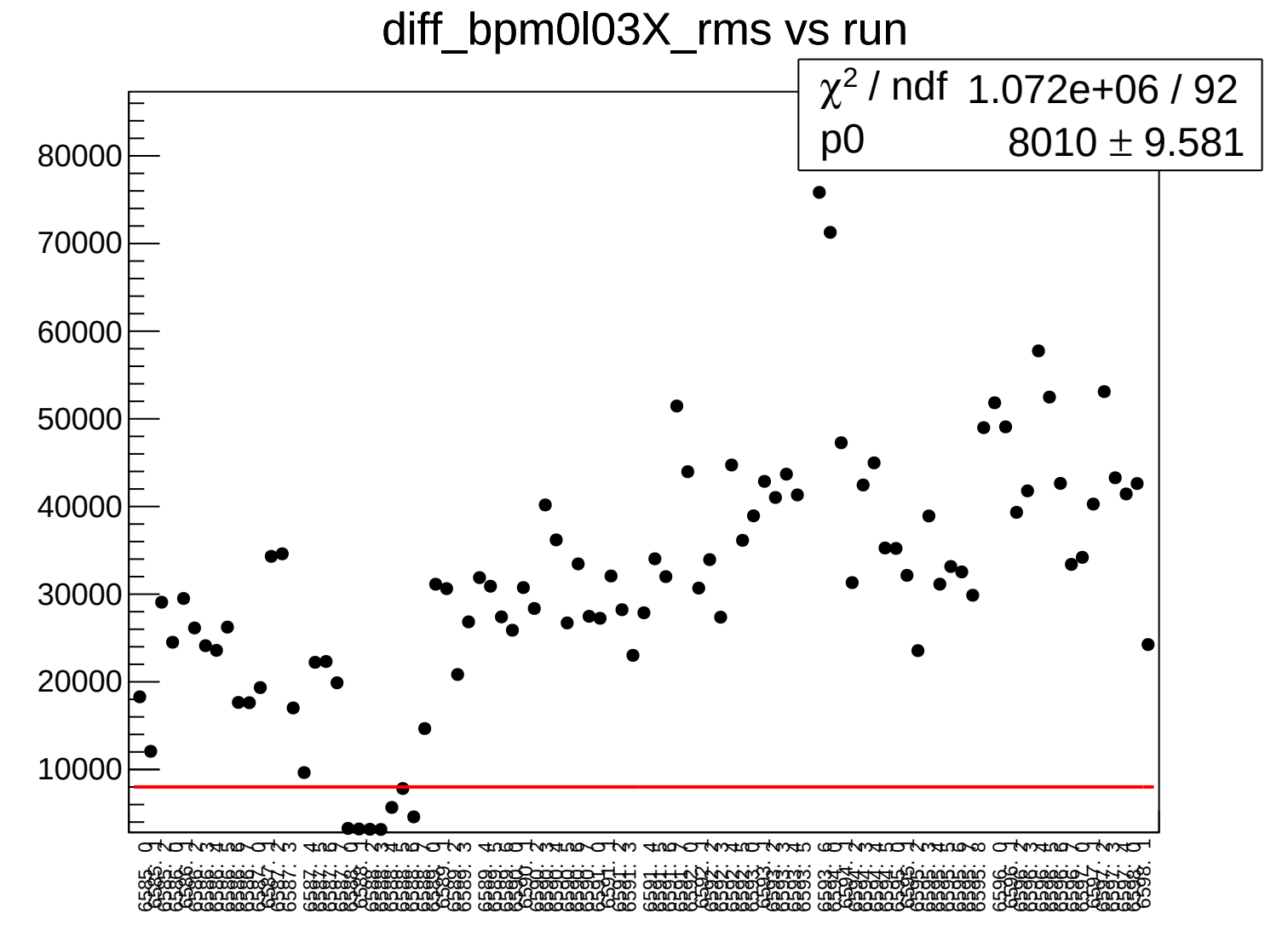

diff_bpm0l02Y_mean vs run
χ² / ndf 113.2 / 92
p0 20.87 ± 1.982
pull
Entries 93
Mean −1207
Std Dev 0

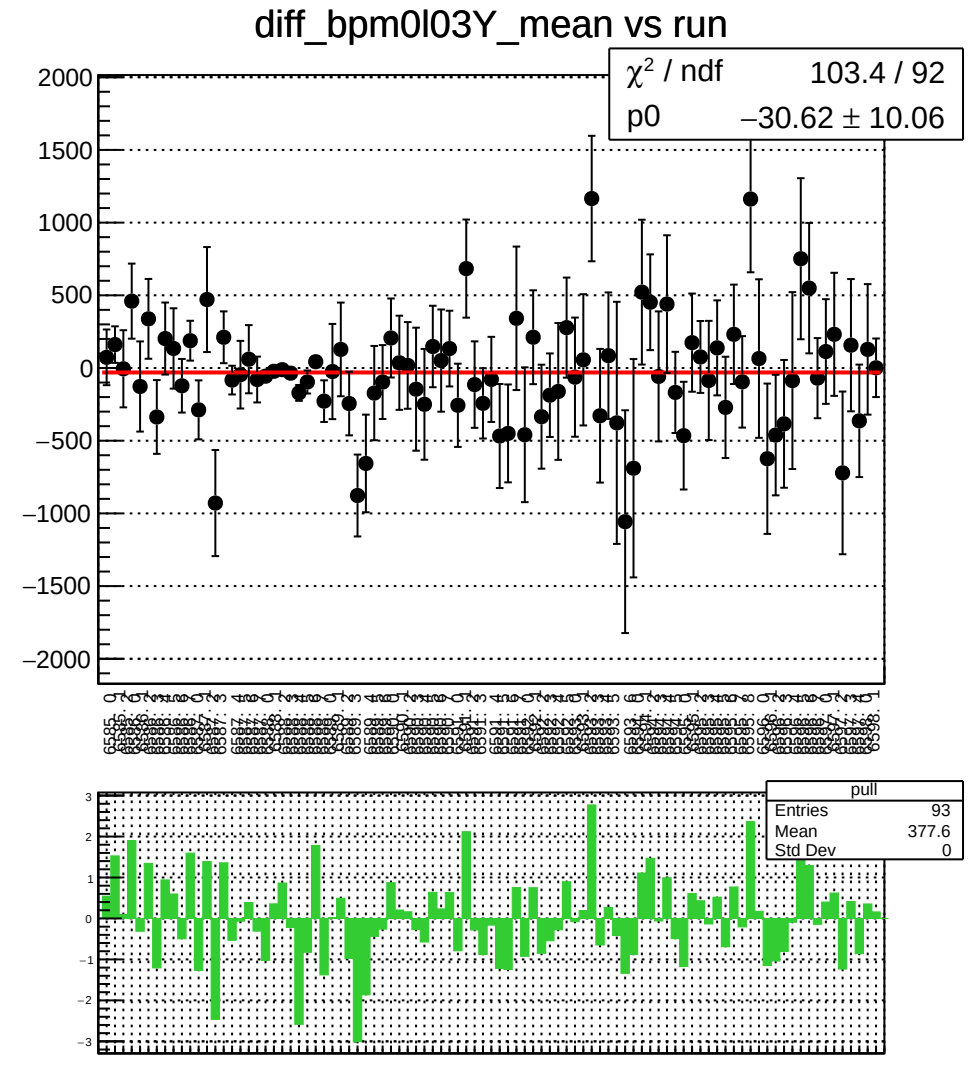

pull1D
Entries 93
Mean −0.002273
Std Dev 1.103

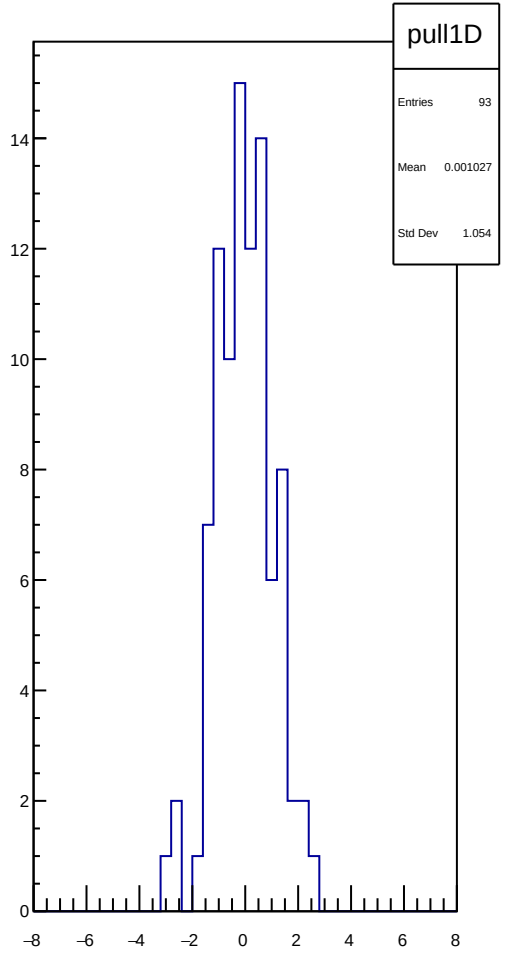

diff_bpm0l02Y_rms vs run
χ² / ndf 7960 / 92
p0 1861 ± 1.402
2200
2100
2000
1900
1800
1700
1600

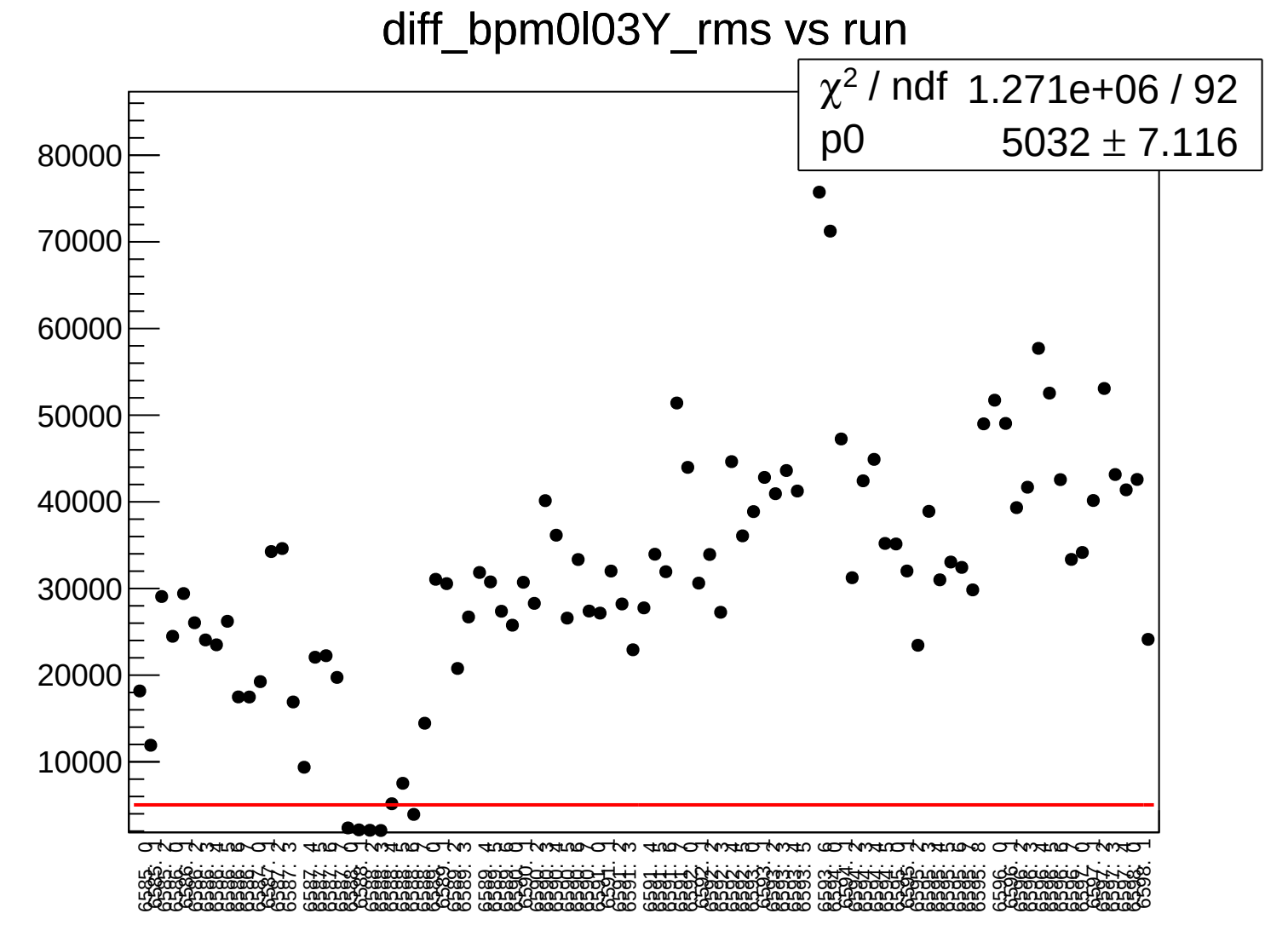

diff_bpm0l03X_mean vs run
χ² / ndf 94.18 / 92
p0 −9.235 ± 13.55
pull
Entries 93
Mean 23.82
Std Dev 0

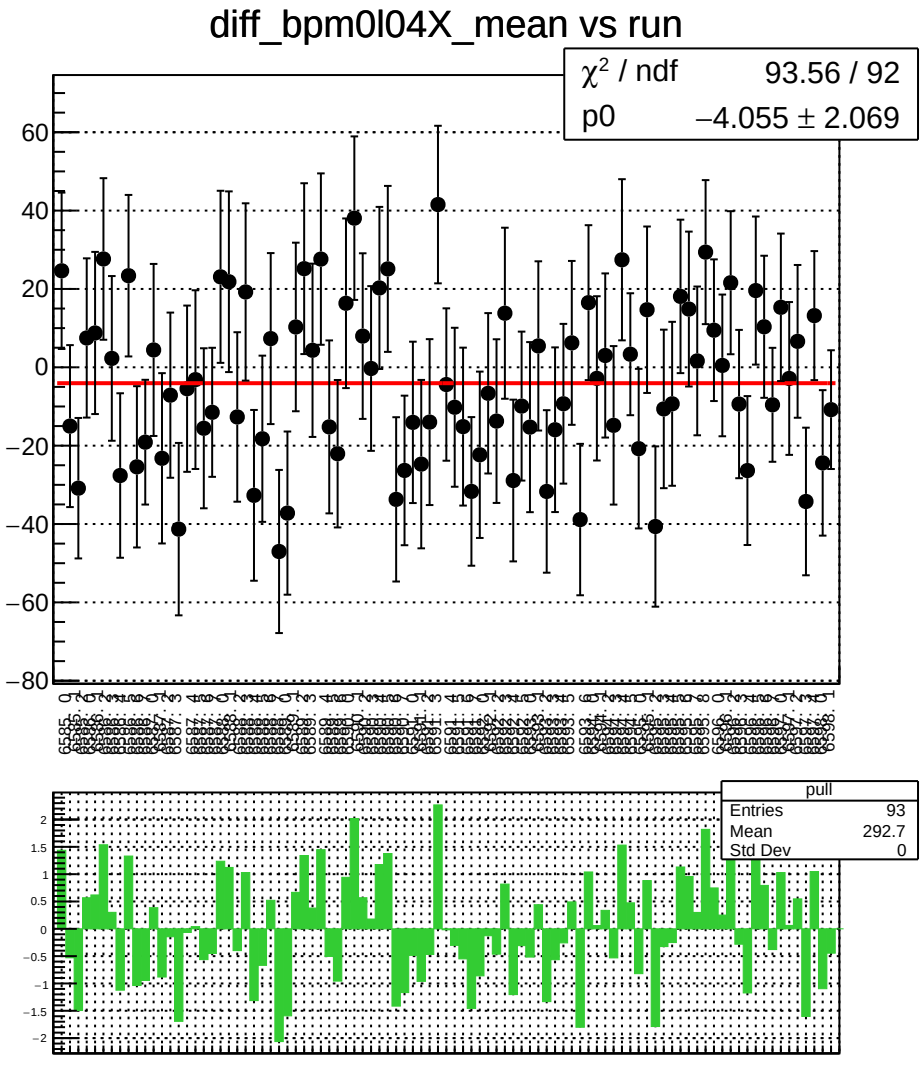

pull1D
Entries 93
Mean −0.04024
Std Dev 1.006

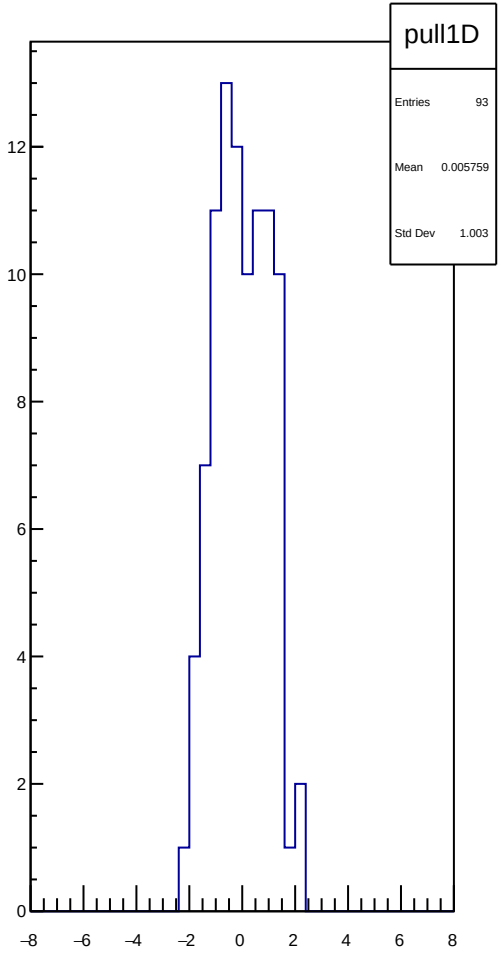

diff_bpm0l03X_rms vs run
χ² / ndf 1.072e+06 / 92
p0 8010 ± 9.581
80000
70000
60000
50000
40000
30000
20000
10000

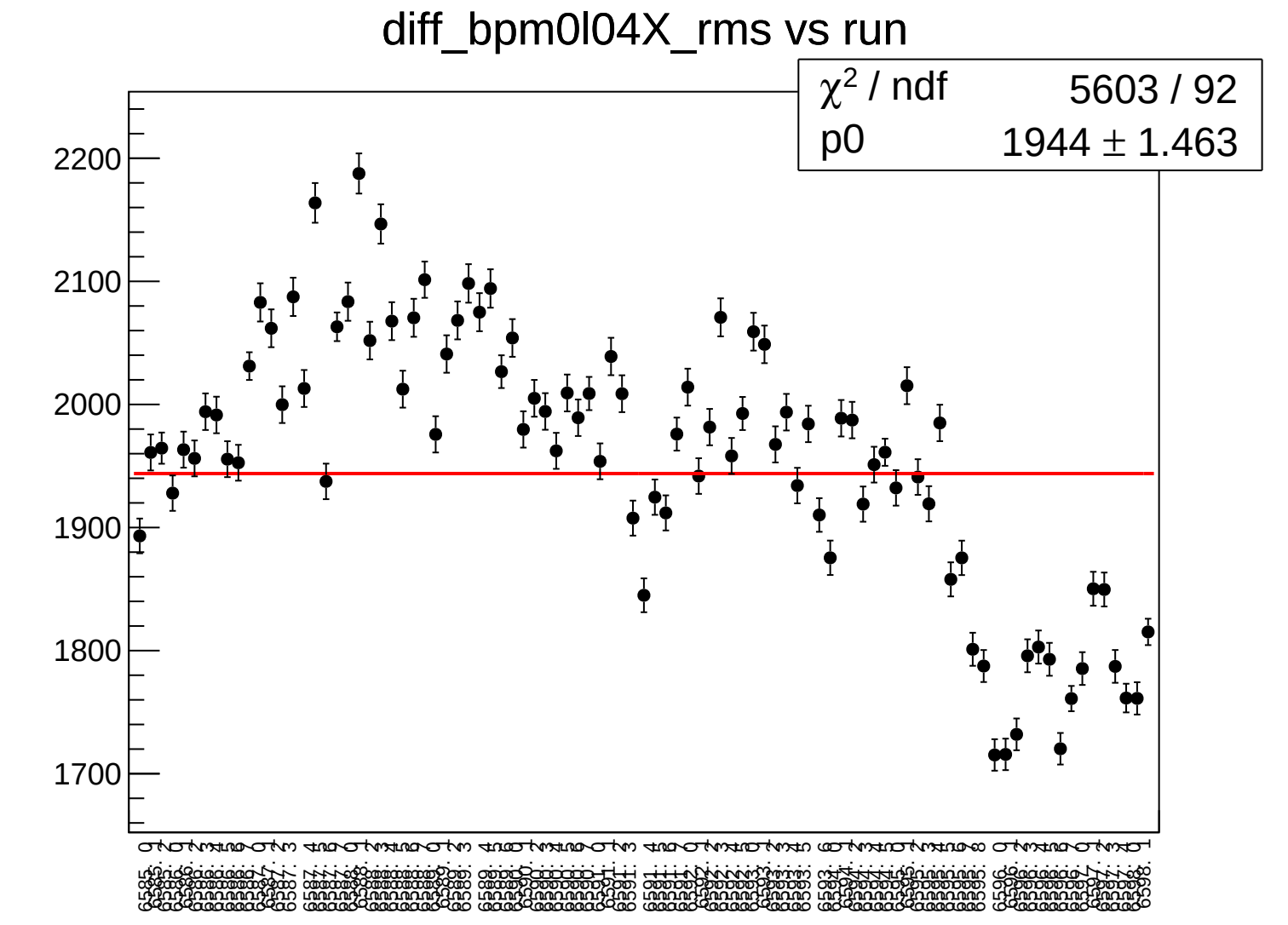

diff_bpm0l03Y_mean vs run
χ² / ndf 103.4 / 92
p0 −30.62 ± 10.06
pull
Entries 93
Mean 377.6
Std Dev 0

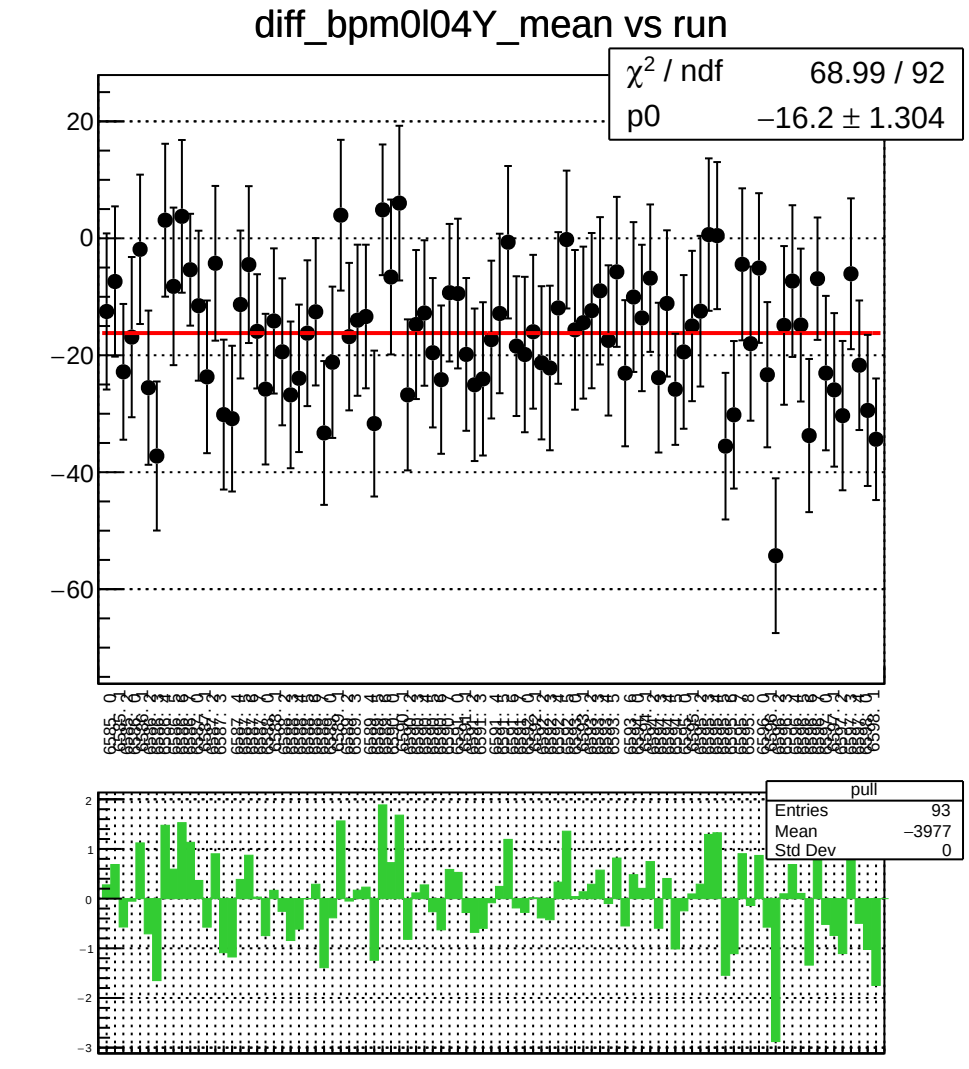

pull1D
Entries 93
Mean 0.001027
Std Dev 1.054

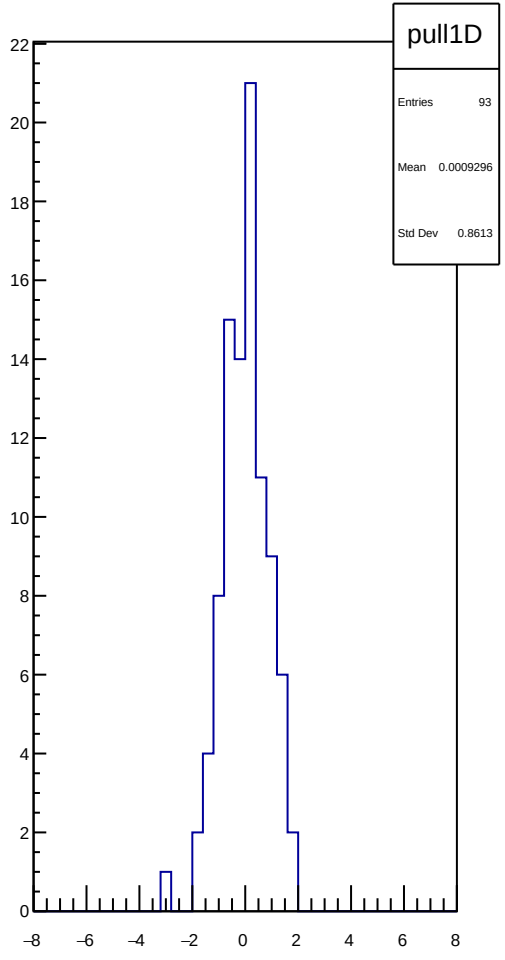

diff_bpm0l03Y_rms vs run
χ² / ndf 1.271e+06 / 92
p0 5032 ± 7.116
80000
70000
60000
50000
40000
30000
20000
10000

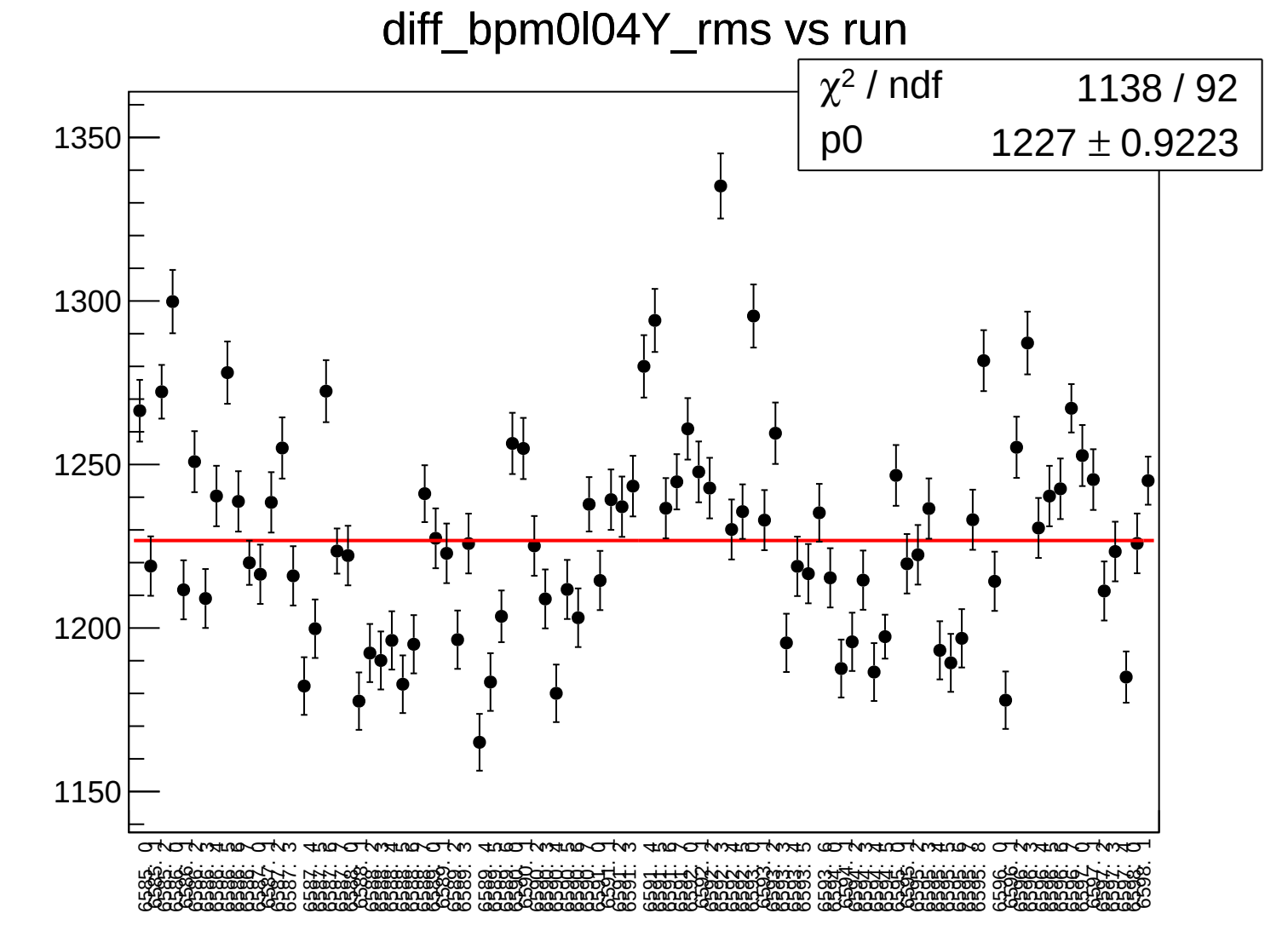

diff_bpm0l04X_mean vs run
χ^2 / ndf 93.56 / 92
p0 −4.055 ± 2.069
pull
Entries 93
Mean 292.7
Std Dev 0

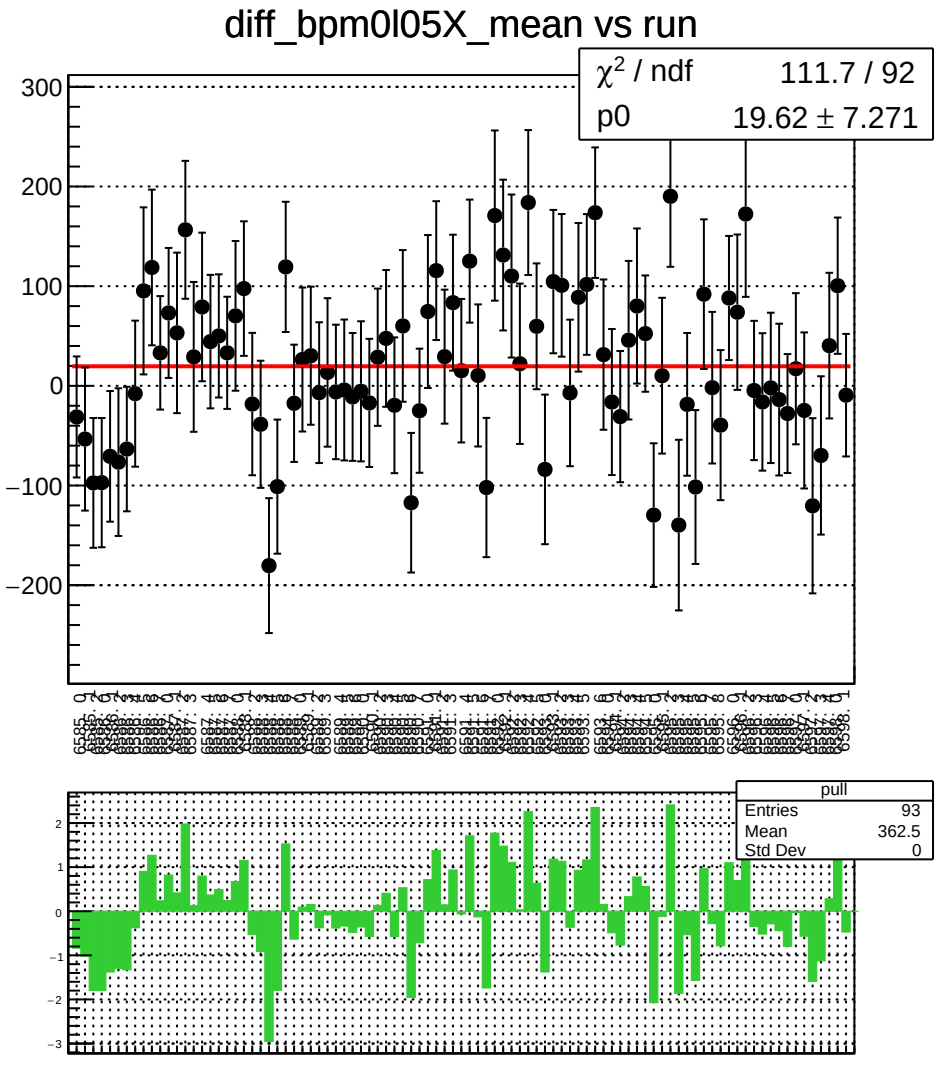

pull1D
Entries 93
Mean 0.005759
Std Dev 1.003

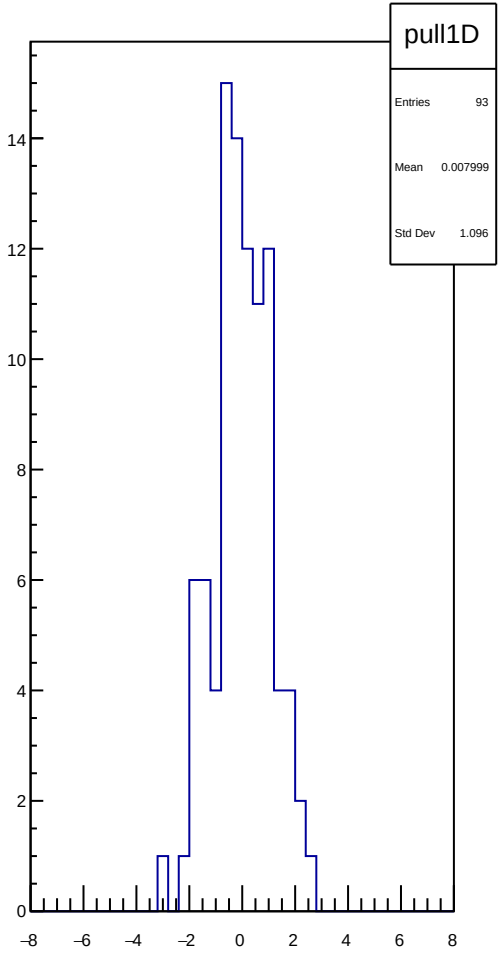

diff_bpm0l04X_rms vs run
χ² / ndf 5603 / 92
p0 1944 ± 1.463
2200
2100
2000
1900
1800
1700

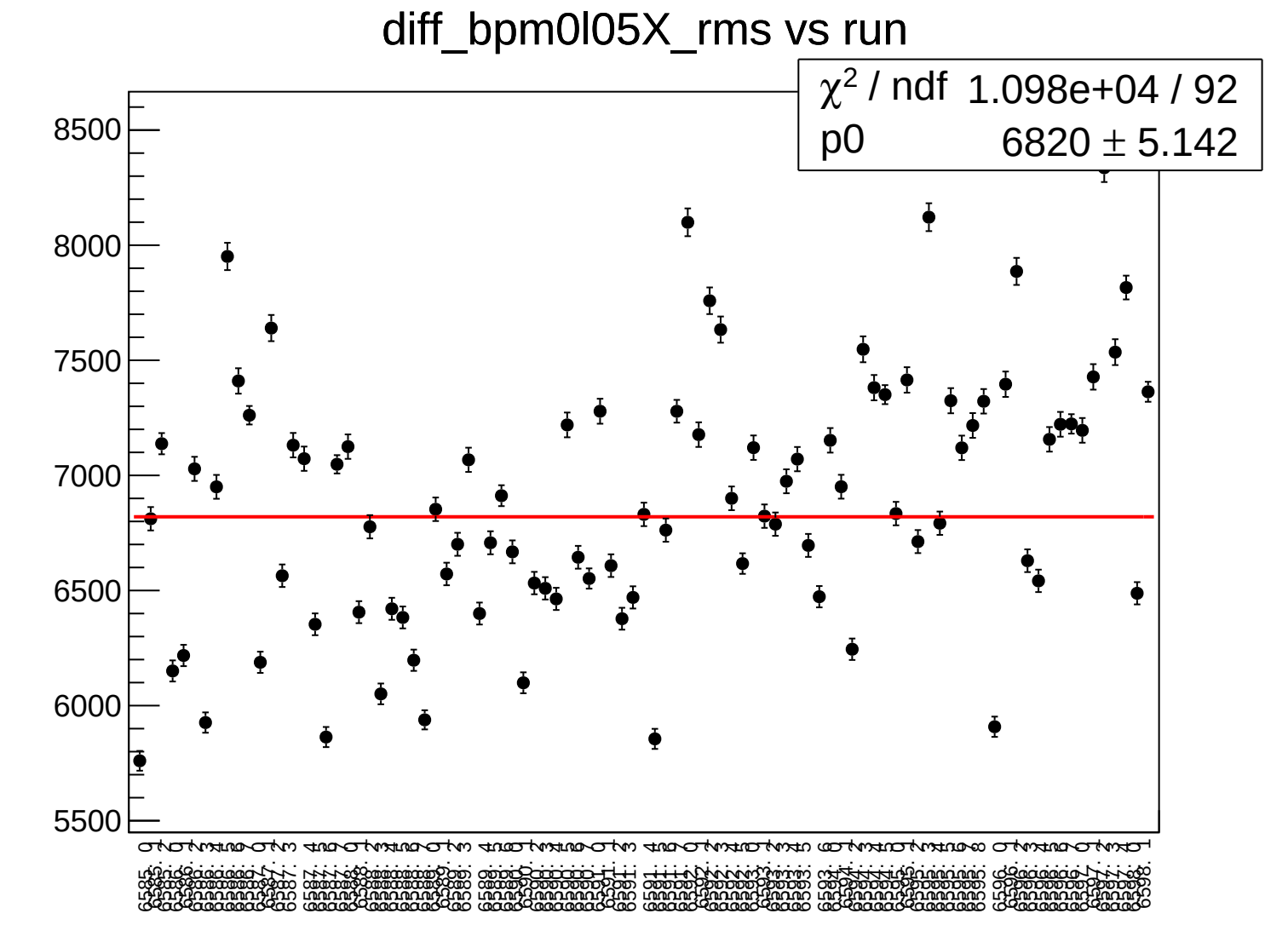

diff_bpm0l04Y_mean vs run
χ^2 / ndf 68.99 / 92
p0 −16.2 ± 1.304
pull
Entries 93
Mean −3977
Std Dev 0

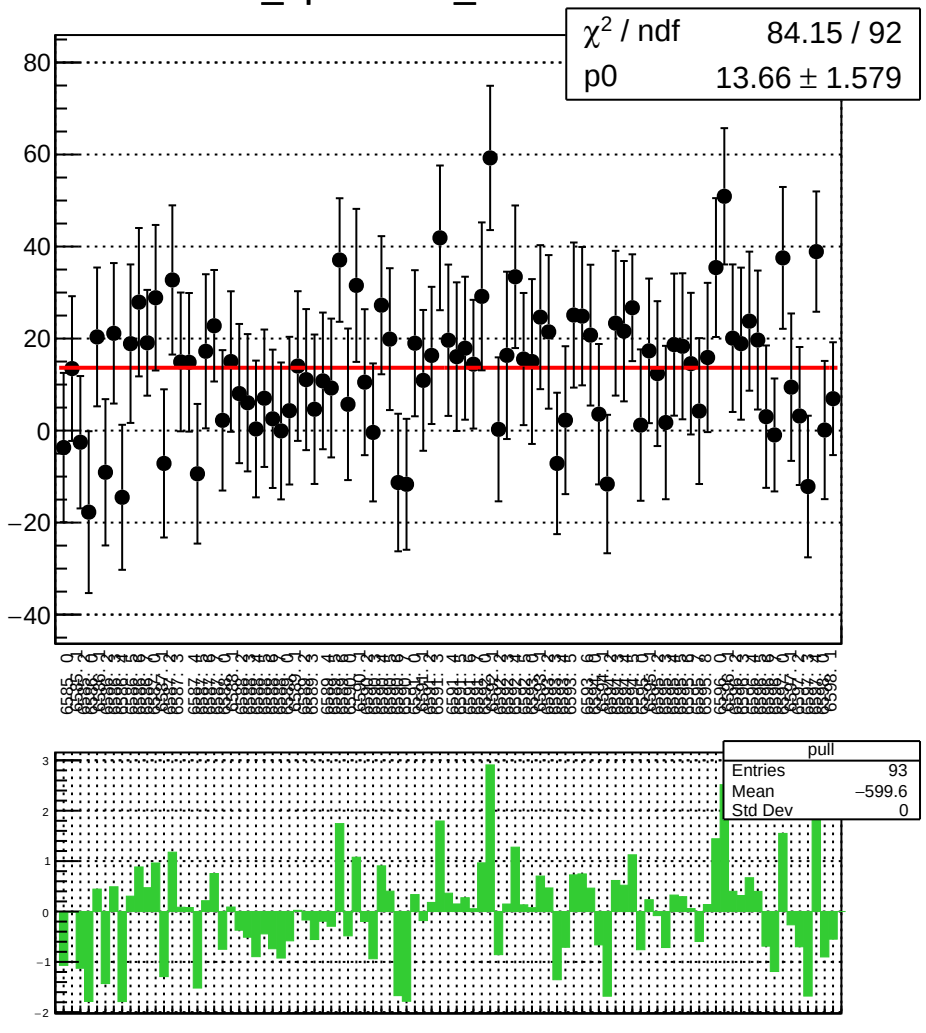

pull1D
Entries 93
Mean 0.0009296
Std Dev 0.8613

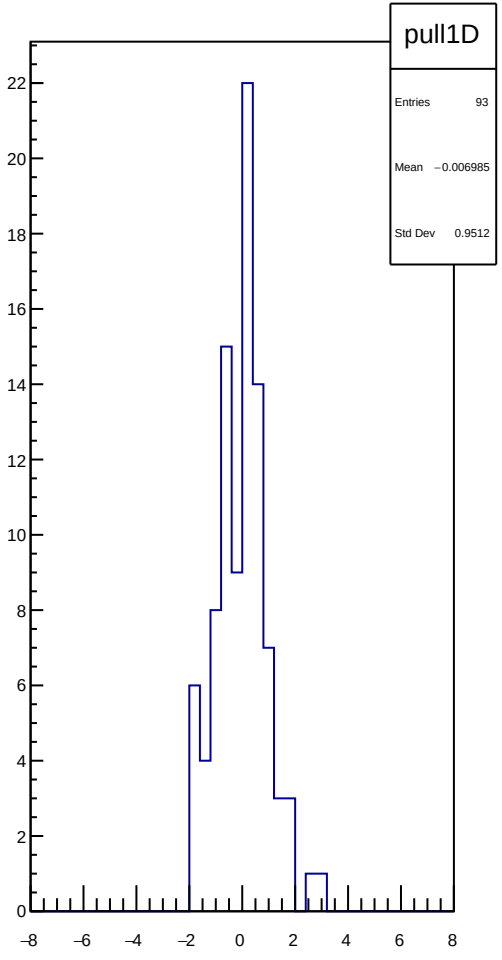

diff_bpm0l04Y_rms vs run
χ² / ndf 1138 / 92
p0 1227 ± 0.9223
1350
1300
1250
1200
1150

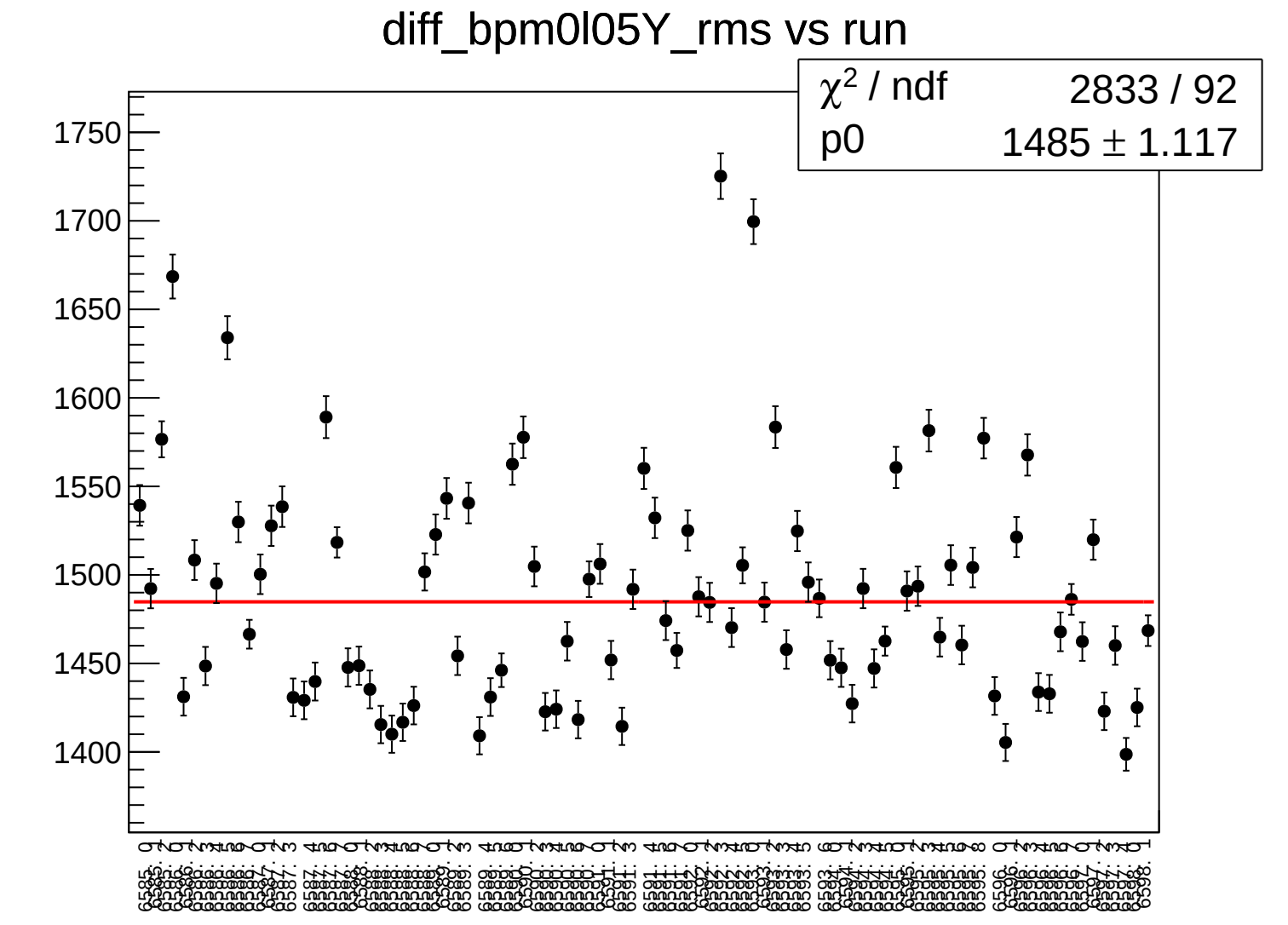

diff_bpm0l05X_mean vs run
χ² / ndf 111.7 / 92
p0 19.62 ± 7.271
300
200
100
0
−100
−200
pull
Entries 93
Mean 362.5
Std Dev 0
2
1
0
−1
−2
−3

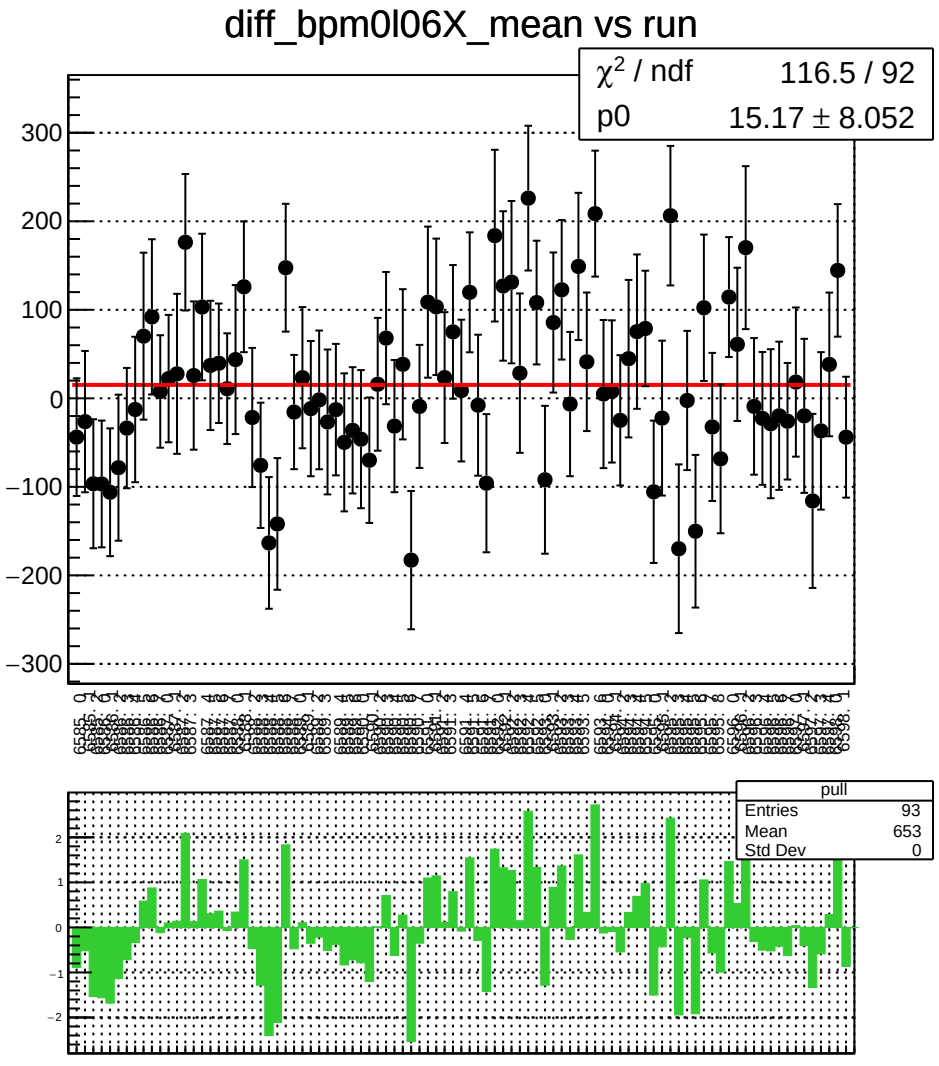

pull1D
Entries 93
Mean 0.007999
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

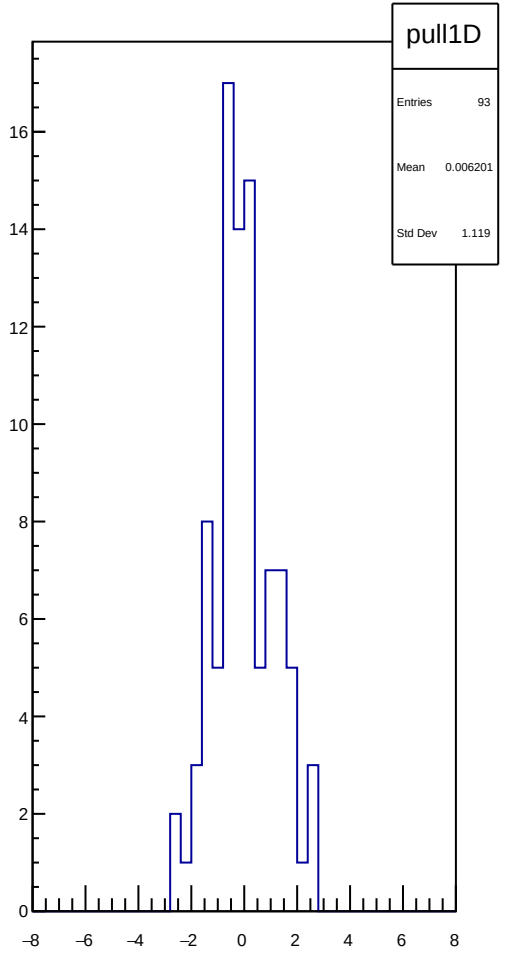

diff_bpm0l05X_rms vs run
χ² / ndf 1.098e+04 / 92
p0 6820 ± 5.142
8500
8000
7500
7000
6500
6000
5500

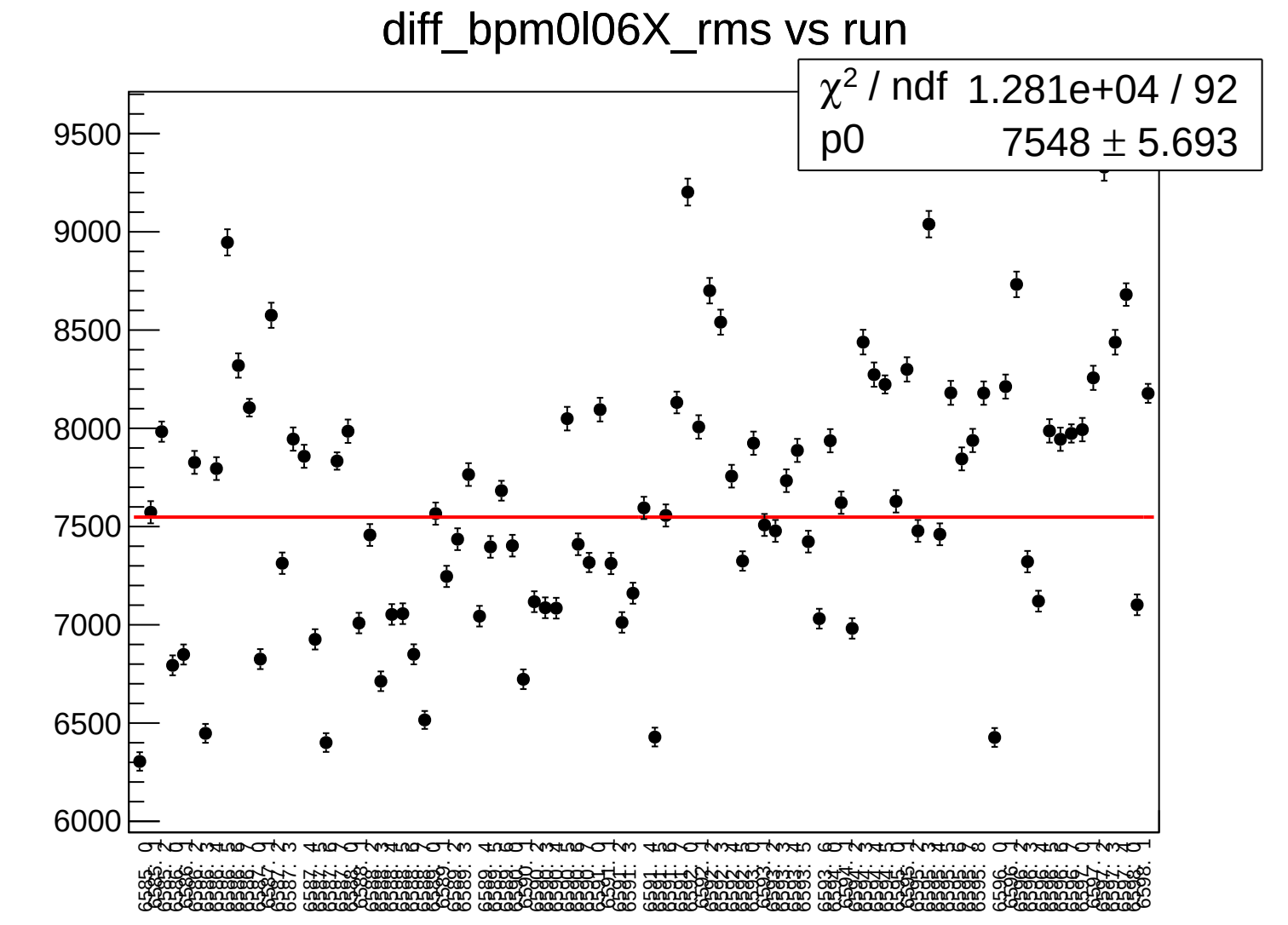

diff_bpm0l05Y_mean vs run
χ² / ndf 84.15 / 92
p0 13.66 ± 1.579
pull
Entries 93
Mean −599.6
Std Dev 0

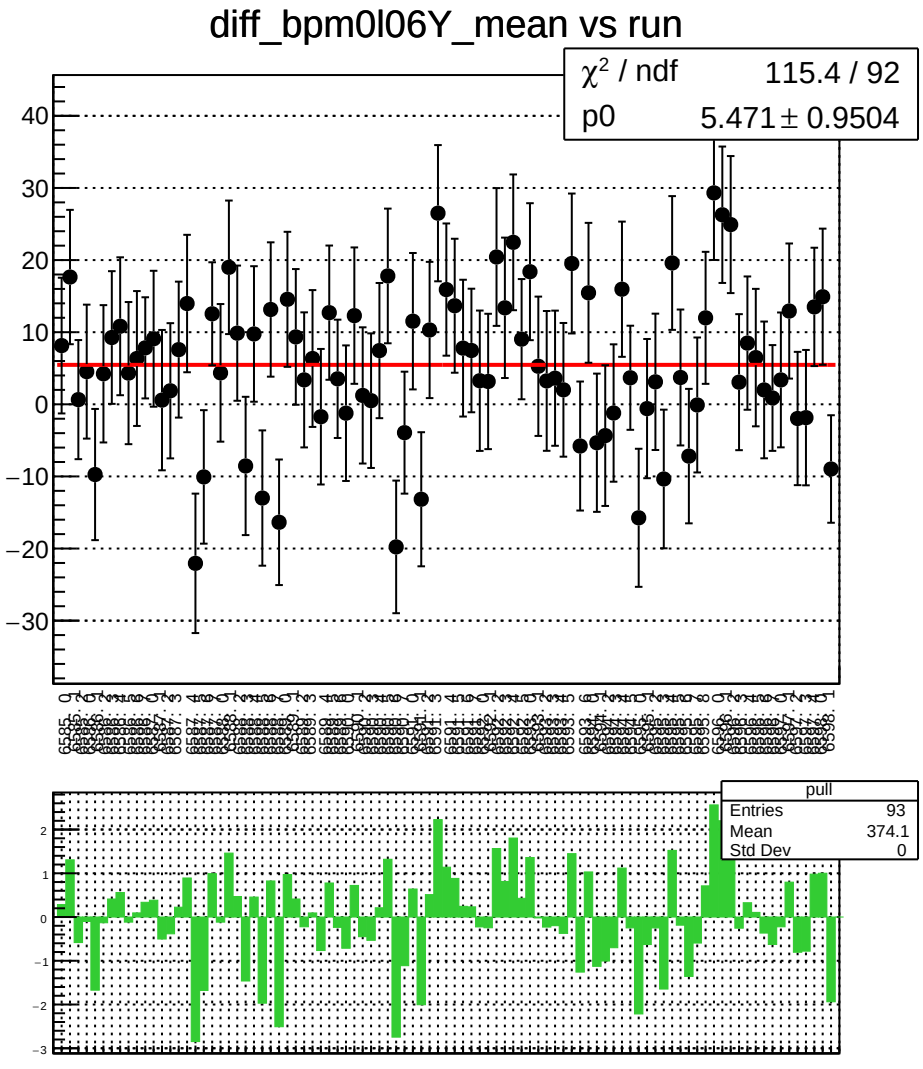

pull1D
Entries 93
Mean −0.006985
Std Dev 0.9512

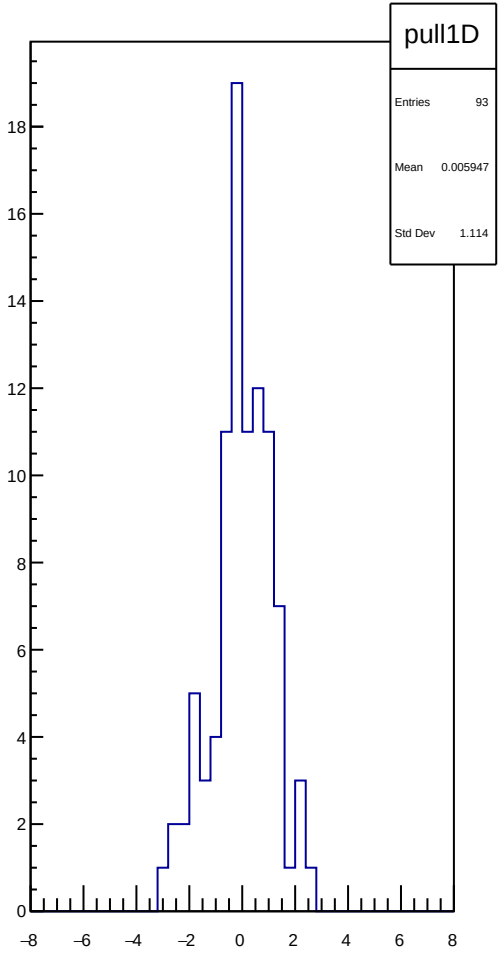

diff_bpm0l05Y_rms vs run
χ² / ndf 2833 / 92
p0 1485 ± 1.117
1750
1700
1650
1600
1550
1500
1450
1400

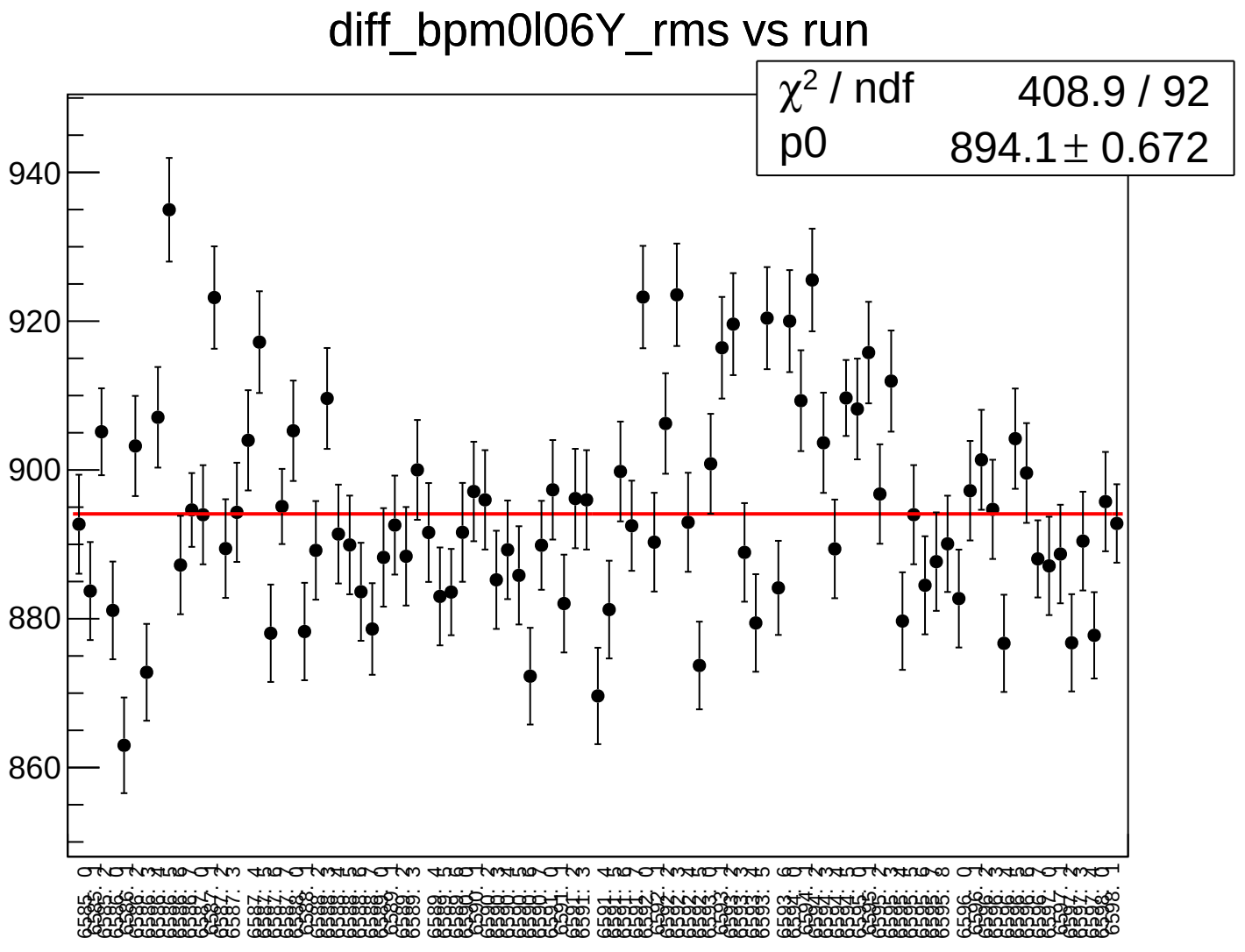

diff_bpm0l06X_mean vs run
χ² / ndf 116.5 / 92
p0 15.17 ± 8.052
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 653
Std Dev 0
2
1
0
−1
−2

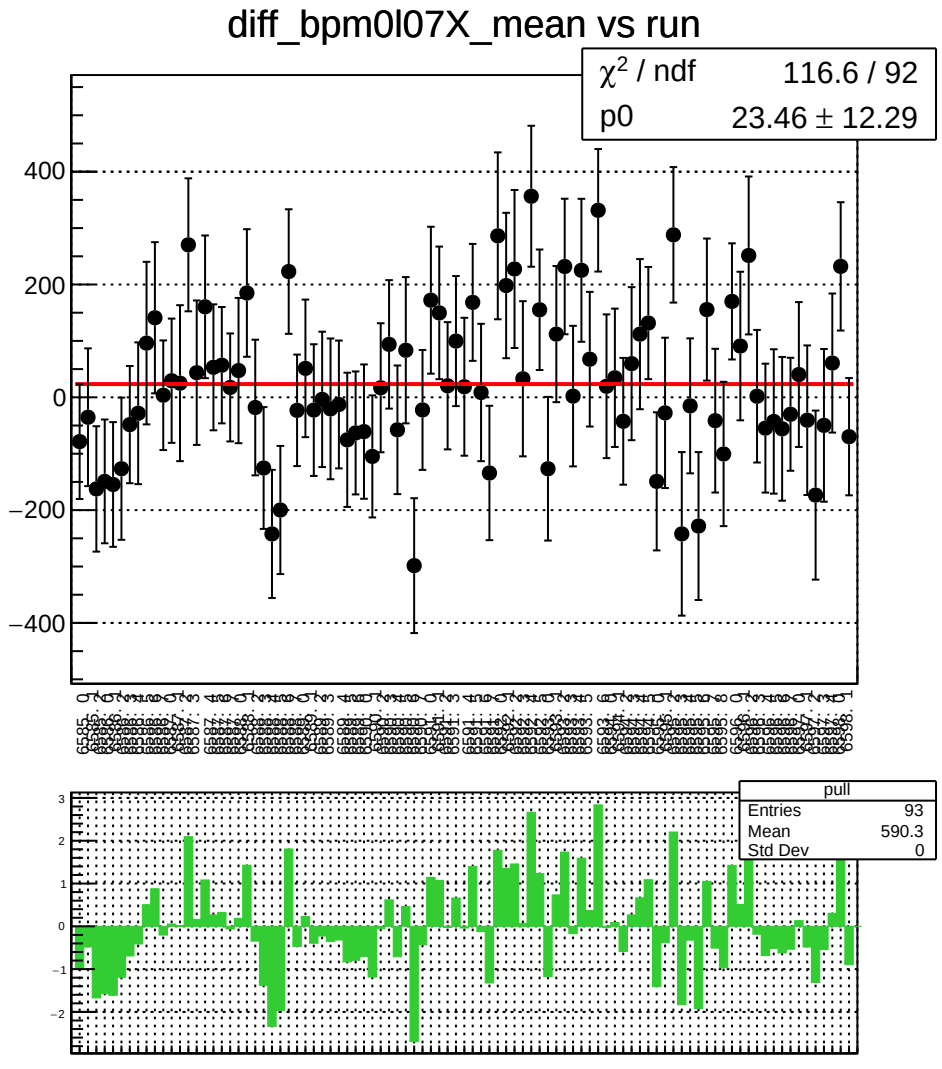

pull1D
Entries 93
Mean 0.006201
Std Dev 1.119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

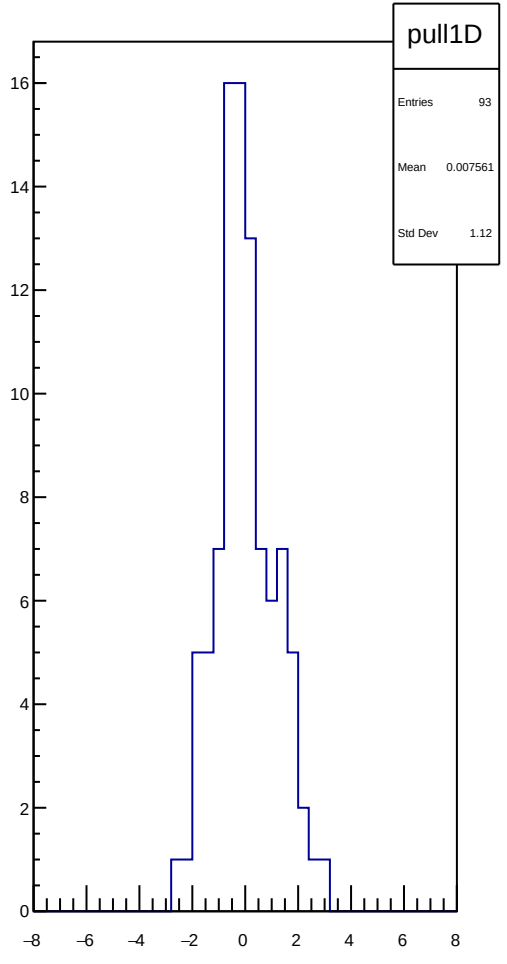

diff_bpm0l06X_rms vs run
χ² / ndf 1.281e+04 / 92
p0 7548 ± 5.693
9500
9000
8500
8000
7500
7000
6500
6000

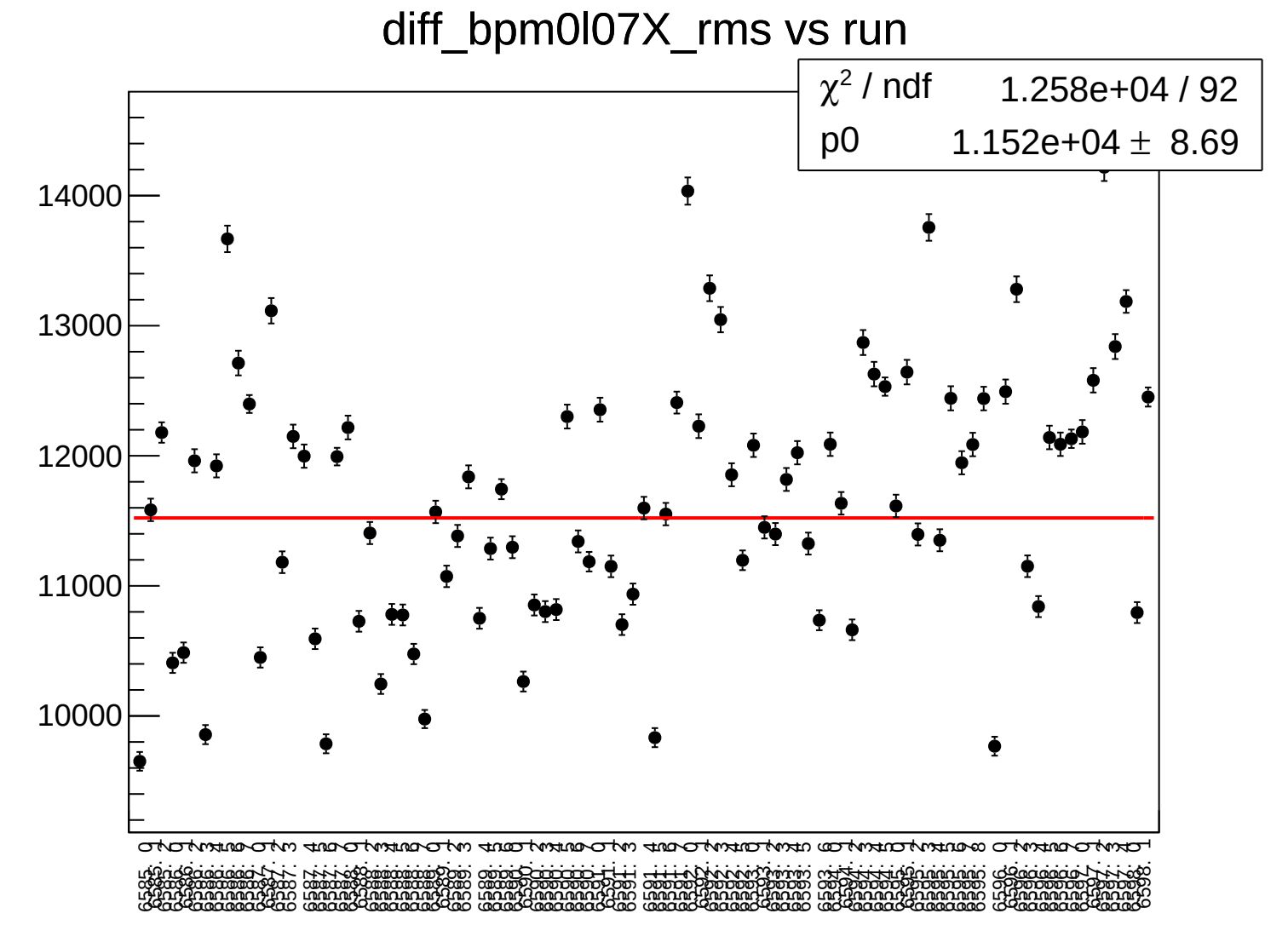

diff_bpm0l06Y_mean vs run
χ² / ndf 115.4 / 92
p0 5.471 ± 0.9504
pull
Entries 93
Mean 374.1
Std Dev 0

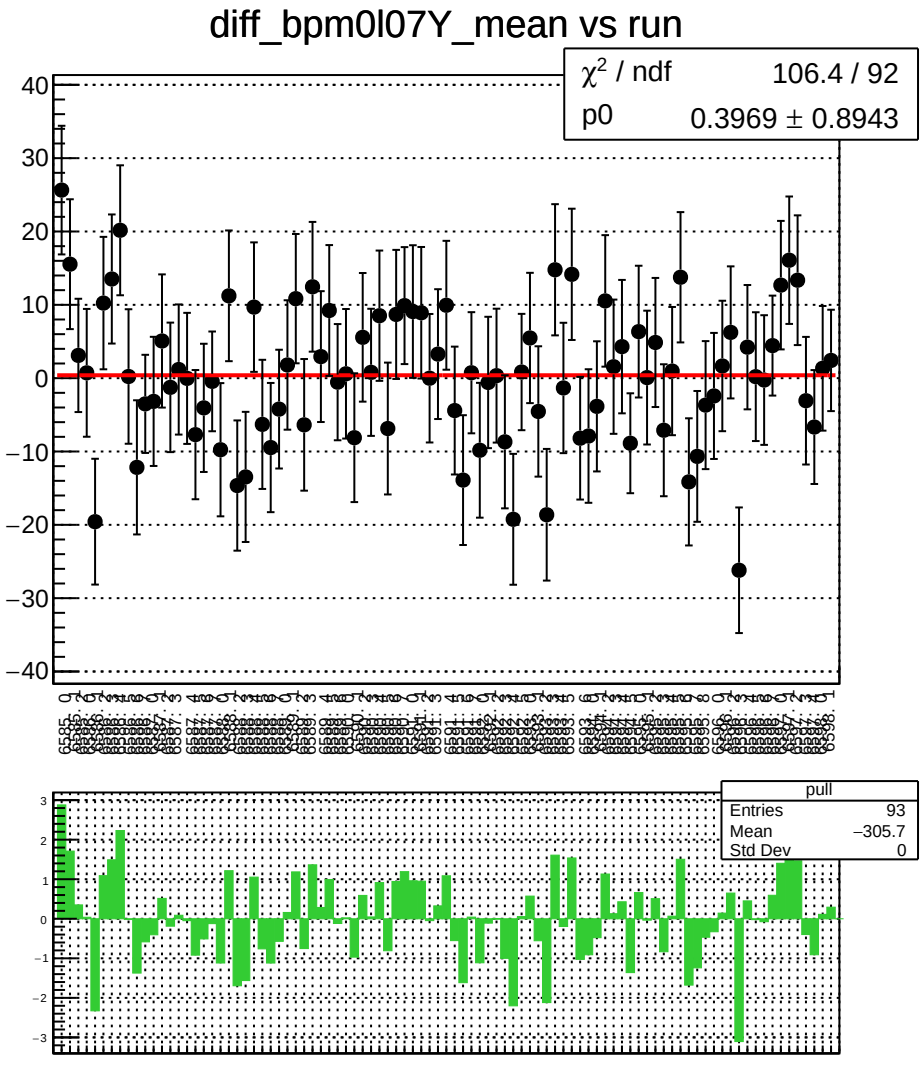

pull1D
Entries 93
Mean 0.005947
Std Dev 1.114

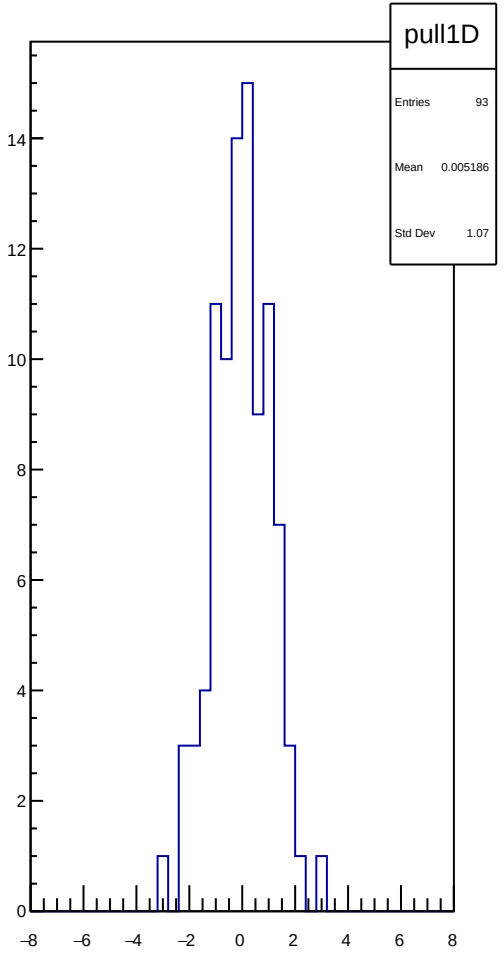

diff_bpm0l06Y_rms vs run
χ² / ndf 408.9 / 92
p0 894.1 ± 0.672
940
920
900
880
860

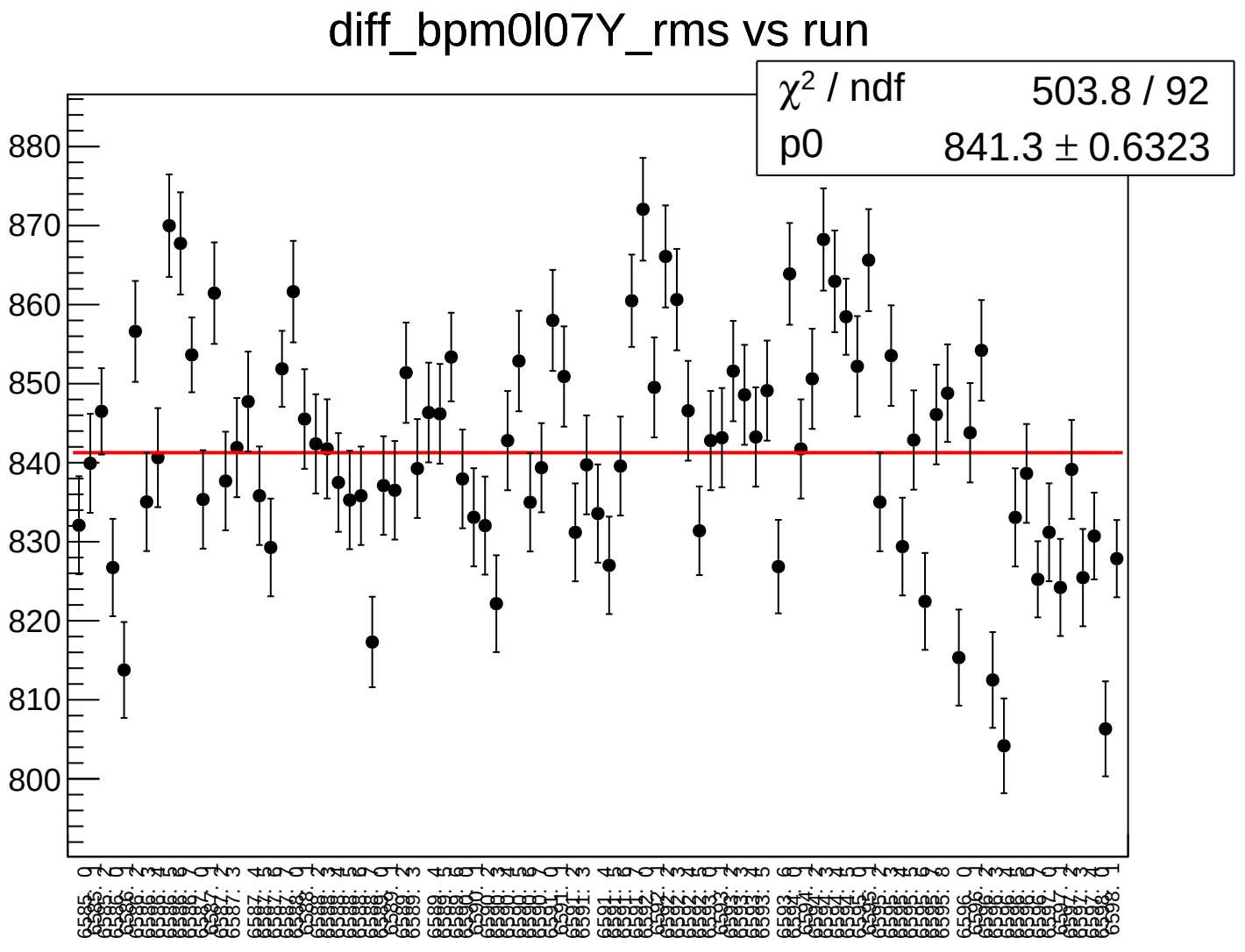

diff_bpm0l07X_mean vs run
χ² / ndf 116.6 / 92
p0 23.46 ± 12.29
400
200
0
−200
−400
pull
Entries 93
Mean 590.3
Std Dev 0
3
2
1
0
−1
−2

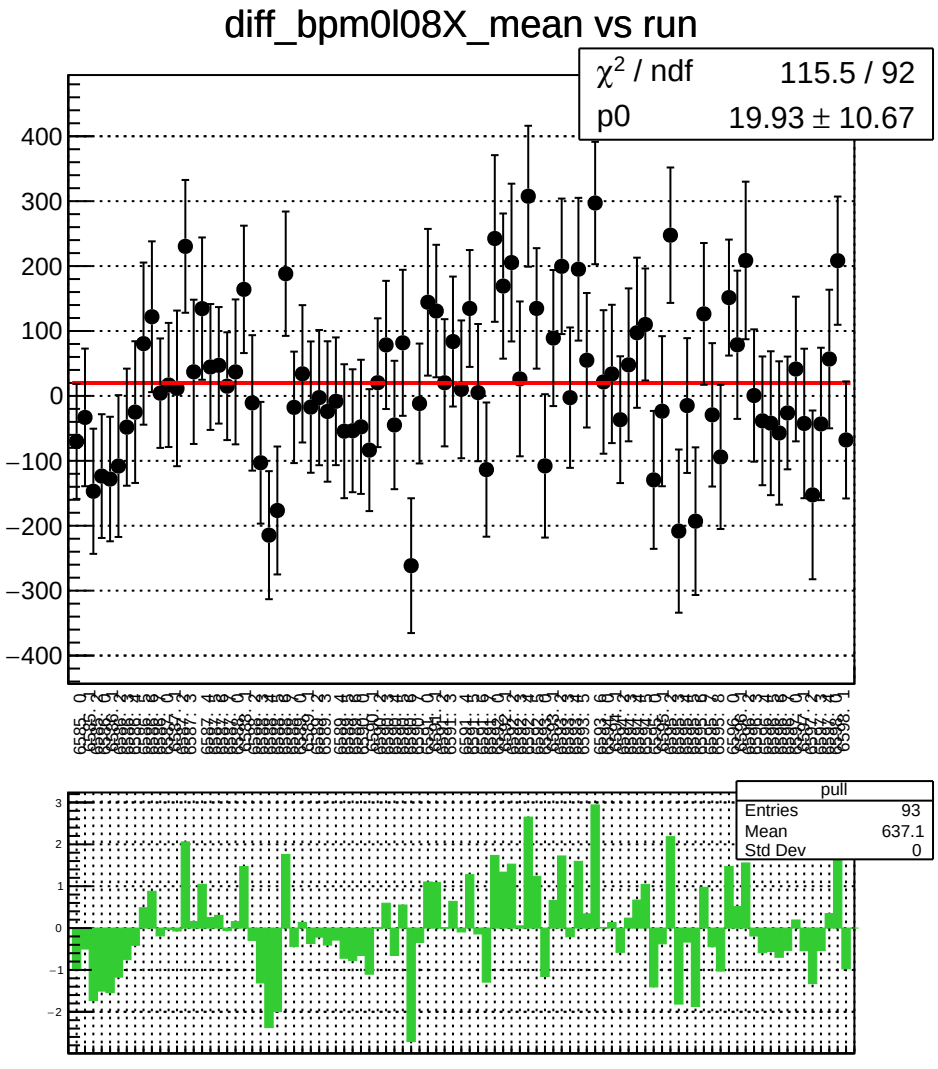

pull1D
Entries 93
Mean 0.007561
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

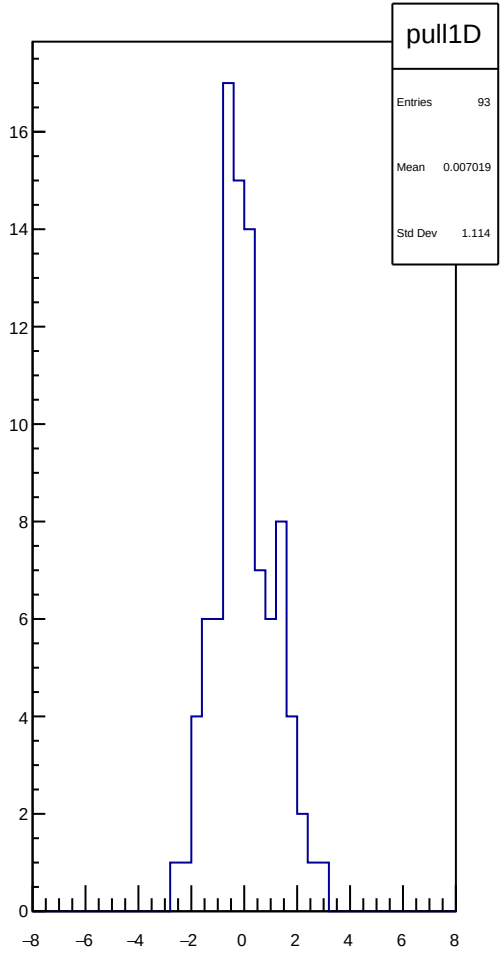

diff_bpm0l07X_rms vs run
χ² / ndf 1.258e+04 / 92
p0 1.152e+04 ± 8.69
14000
13000
12000
11000
10000

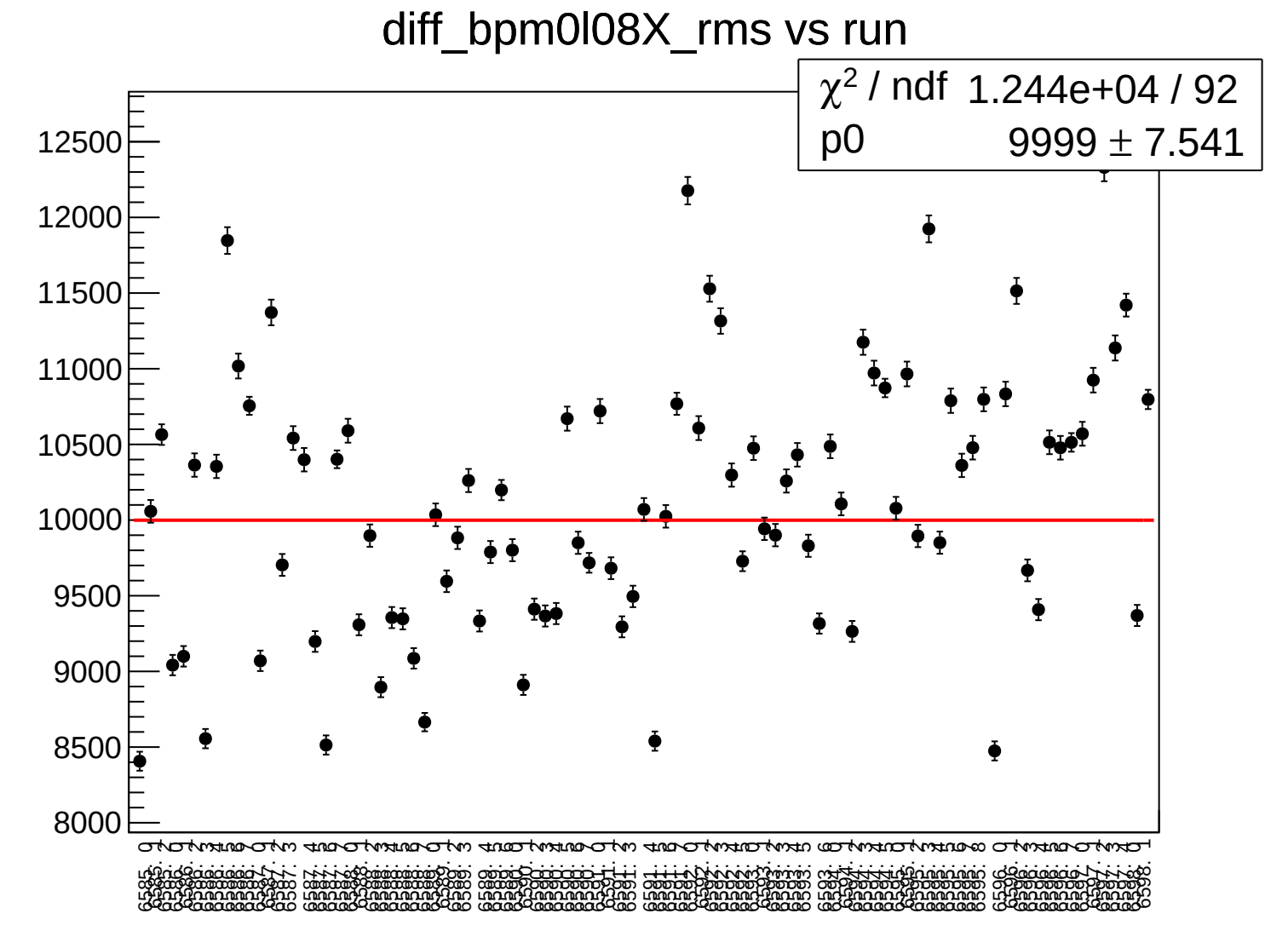

diff_bpm0l07Y_mean vs run
χ² / ndf 106.4 / 92
p0 0.3969 ± 0.8943
pull
Entries 93
Mean −305.7
Std Dev 0

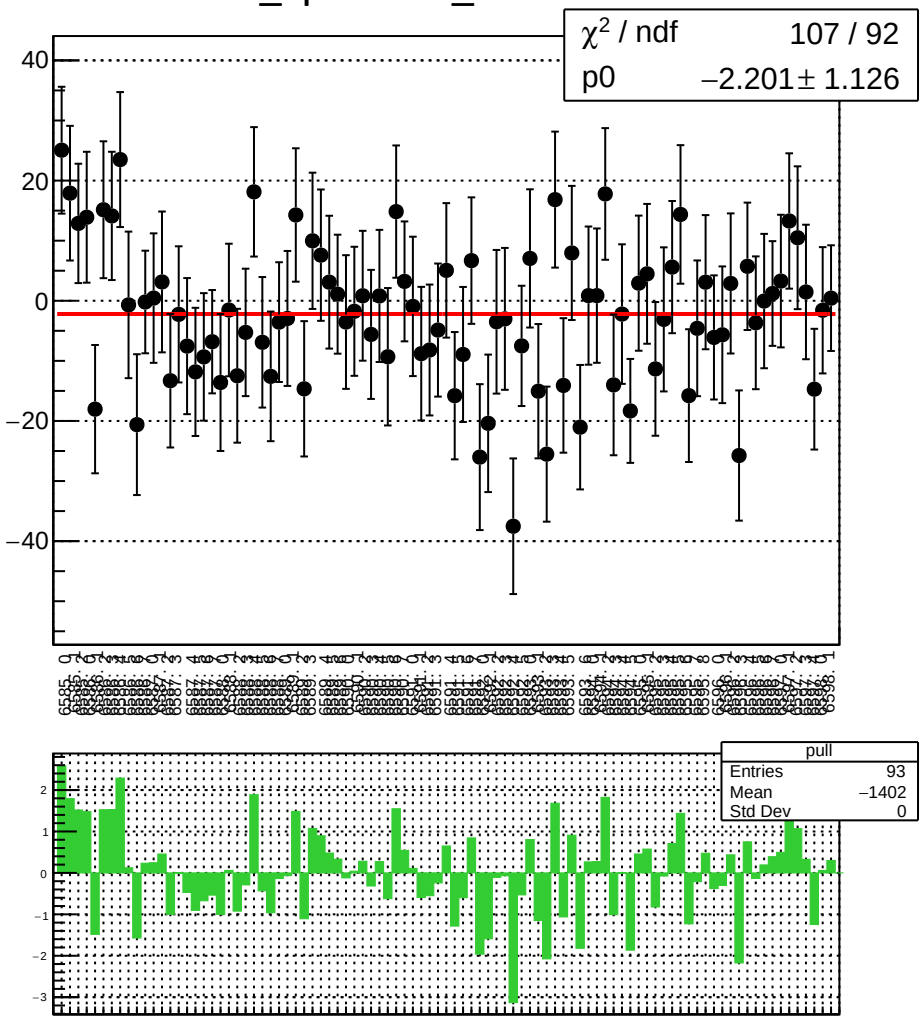

pull1D
Entries 93
Mean 0.005186
Std Dev 1.07

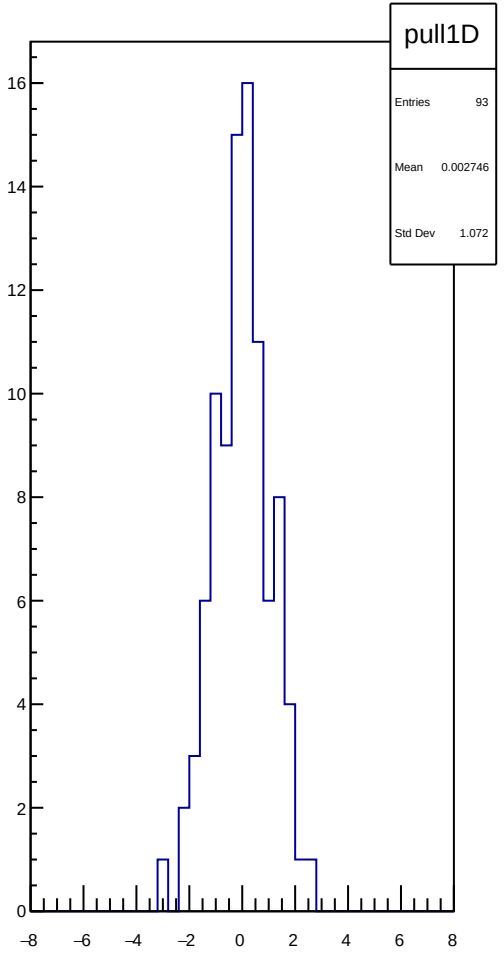

diff_bpm0l07Y_rms vs run
χ² / ndf 503.8 / 92
p0 841.3 ± 0.6323
880
870
860
850
840
830
820
810
800

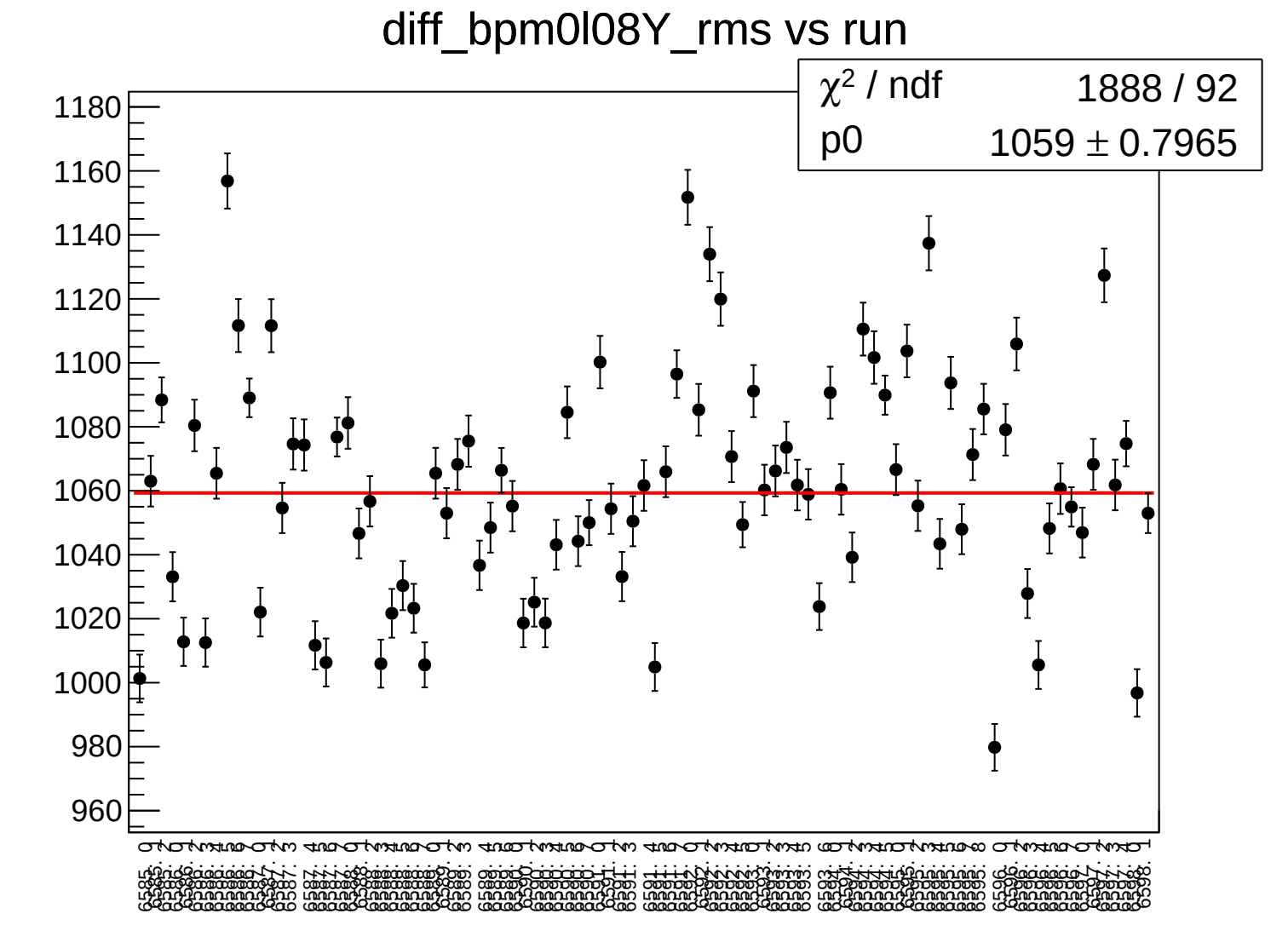

diff_bpm0l08X_mean vs run
χ² / ndf 115.5 / 92
p0 19.93 ± 10.67
pull
Entries 93
Mean 637.1
Std Dev 0

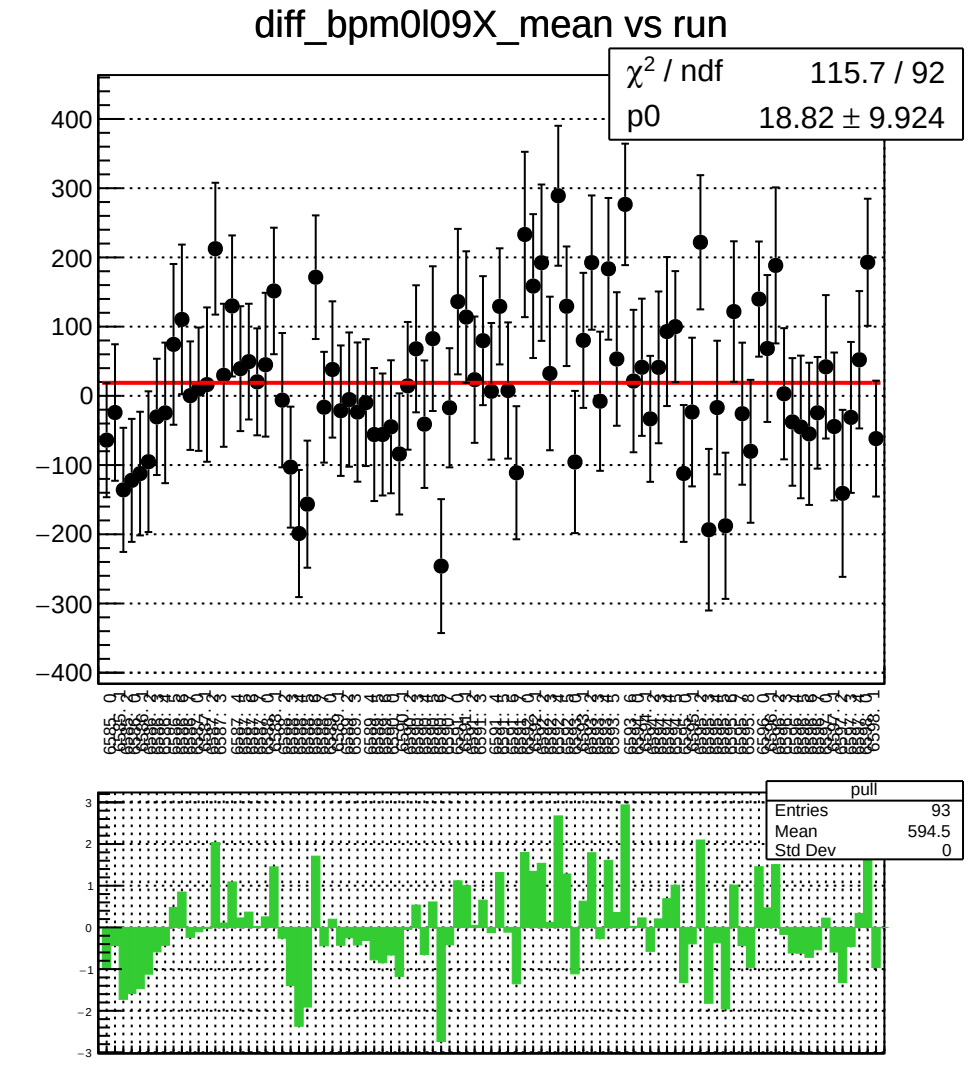

pull1D
Entries 93
Mean 0.007019
Std Dev 1.114

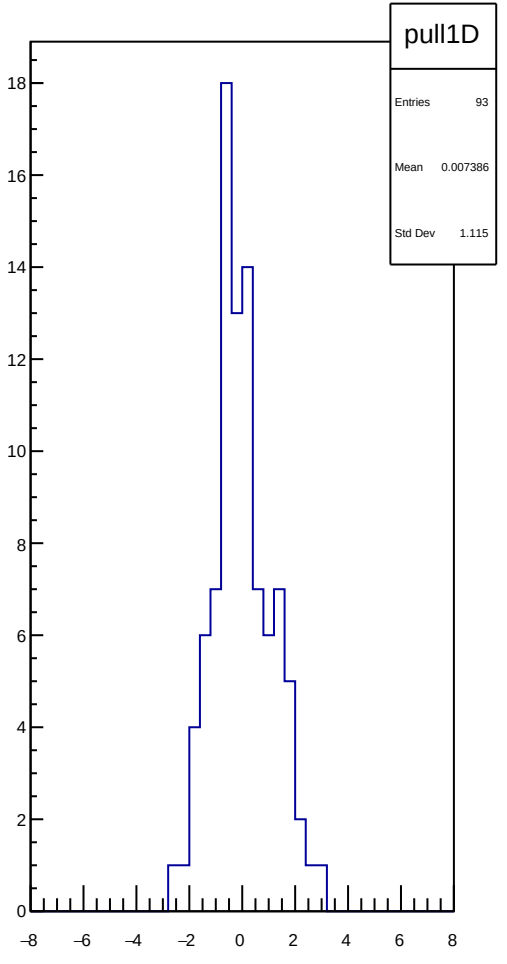

diff_bpm0l08X_rms vs run
χ² / ndf 1.244e+04 / 92
p0 9999 ± 7.541
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000

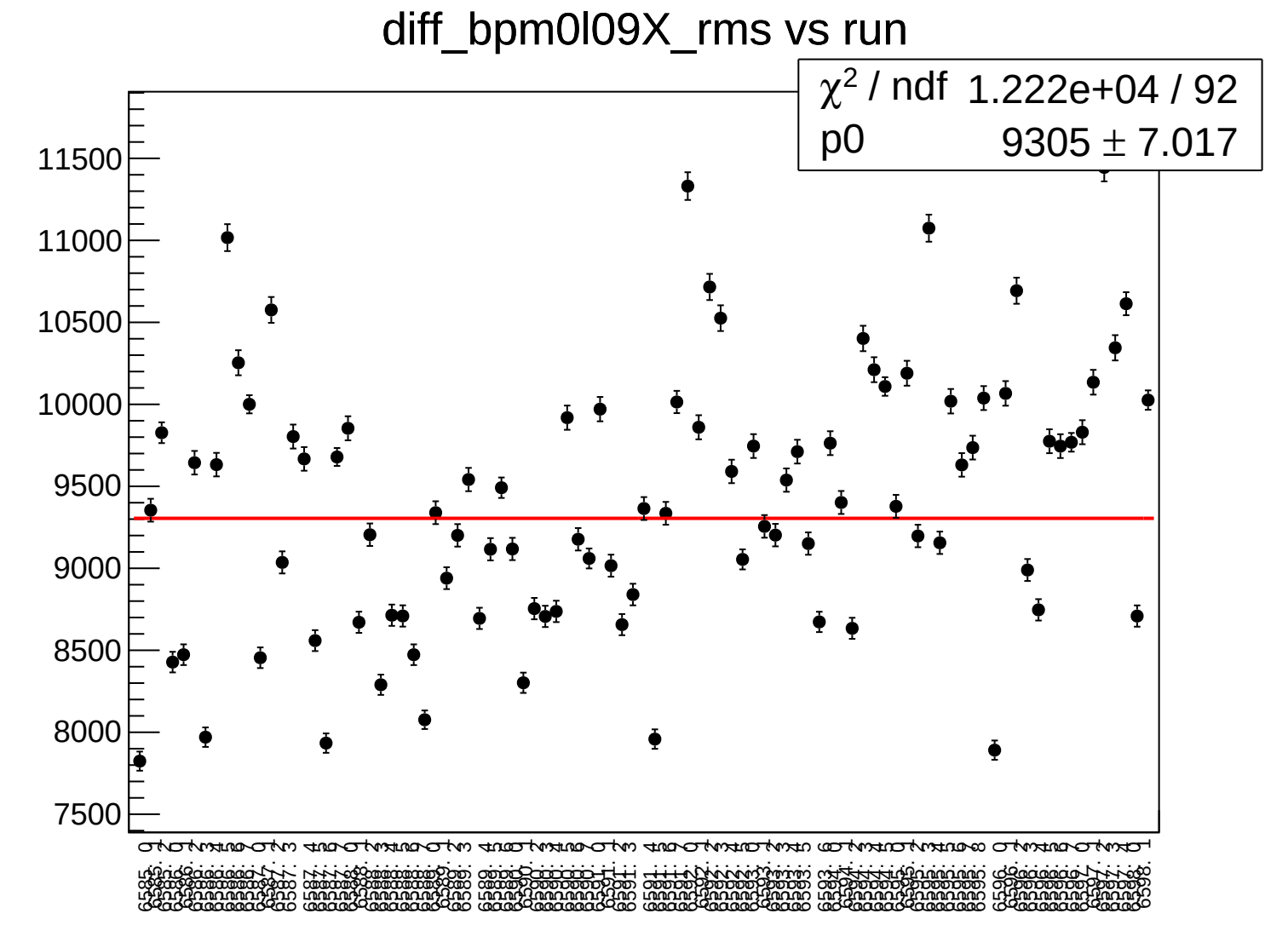

diff_bpm0l08Y_mean vs run
χ² / ndf 107 / 92
p0 −2.201 ± 1.126
pull
Entries 93
Mean −1402
Std Dev 0

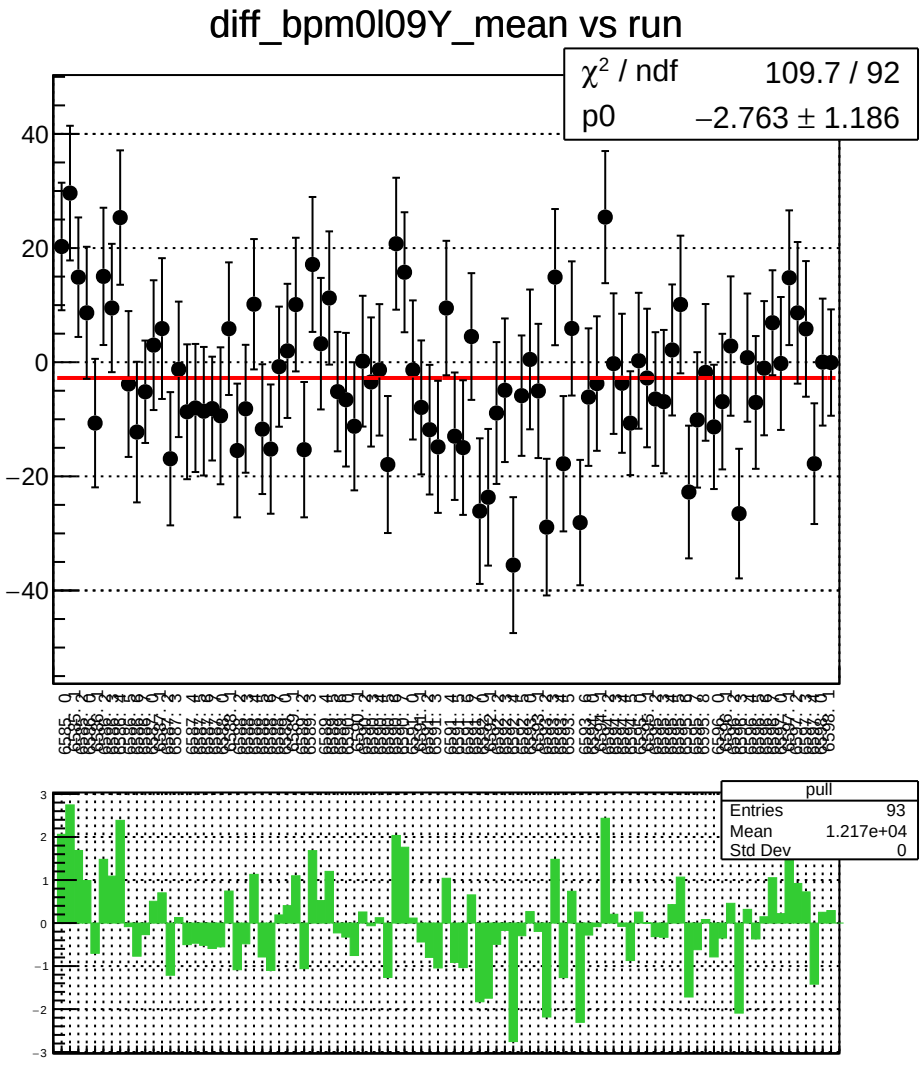

pull1D
Entries 93
Mean 0.002746
Std Dev 1.072

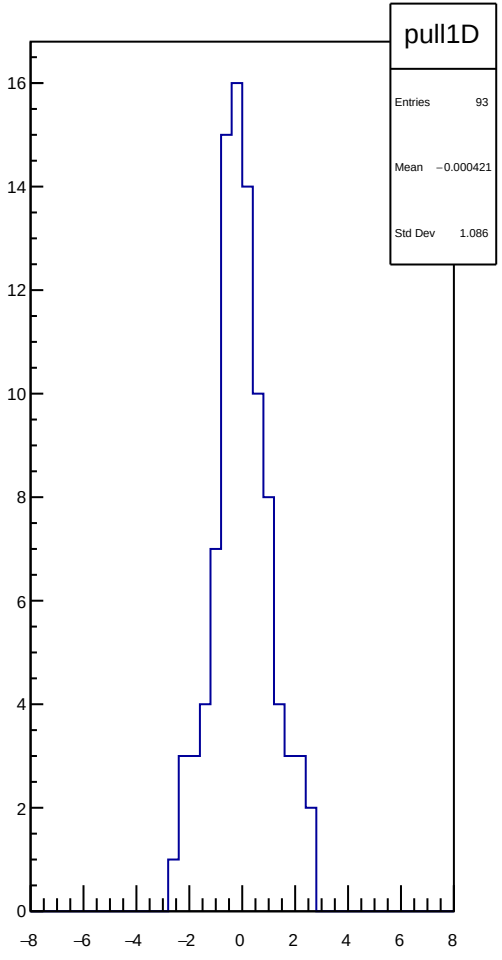

diff_bpm0l08Y_rms vs run
χ² / ndf 1888 / 92
p0 1059 ± 0.7965
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980
960

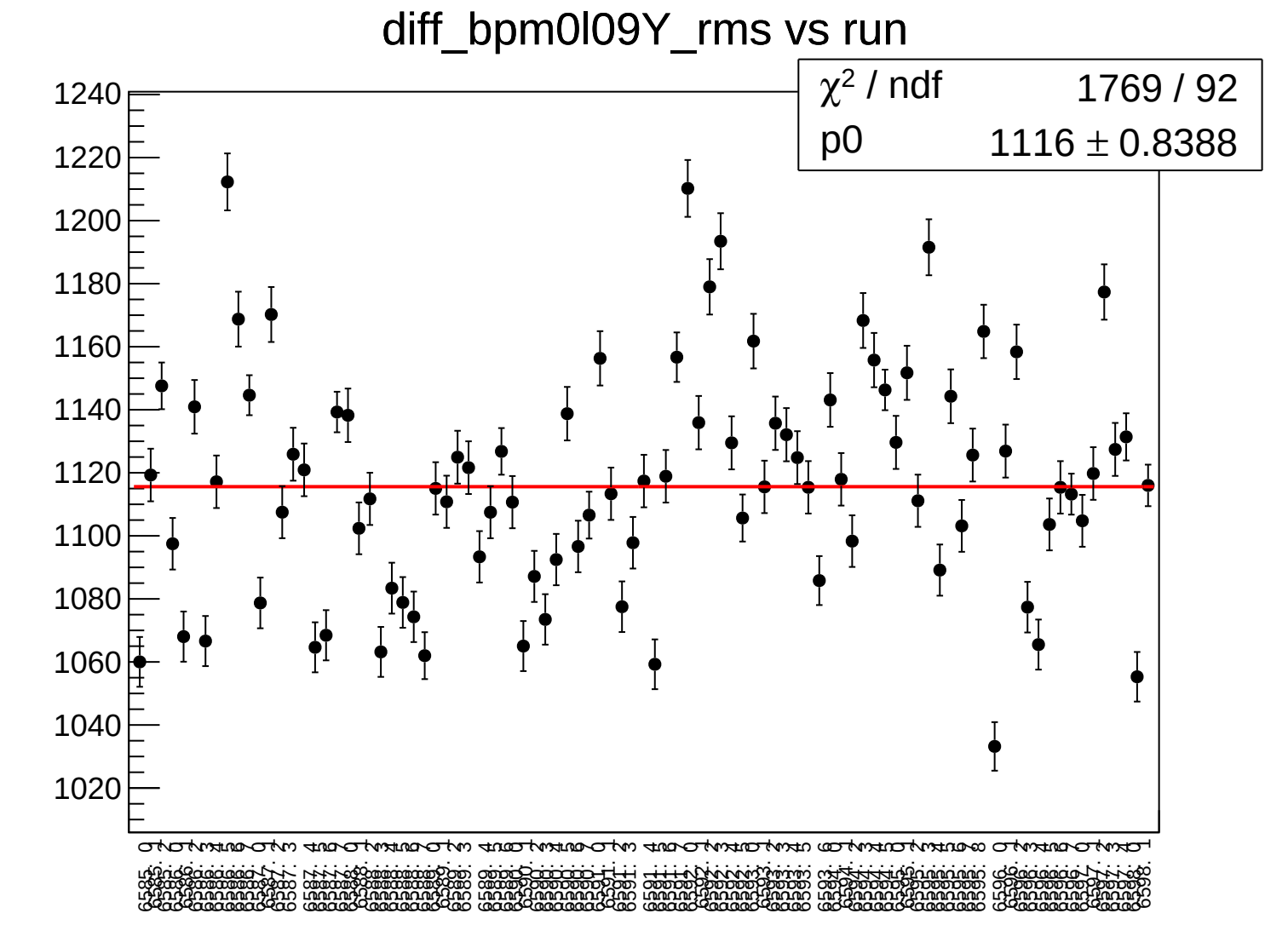

diff_bpm0l09X_mean vs run
χ² / ndf 115.7 / 92
p0 18.82 ± 9.924
pull
Entries 93
Mean 594.5
Std Dev 0

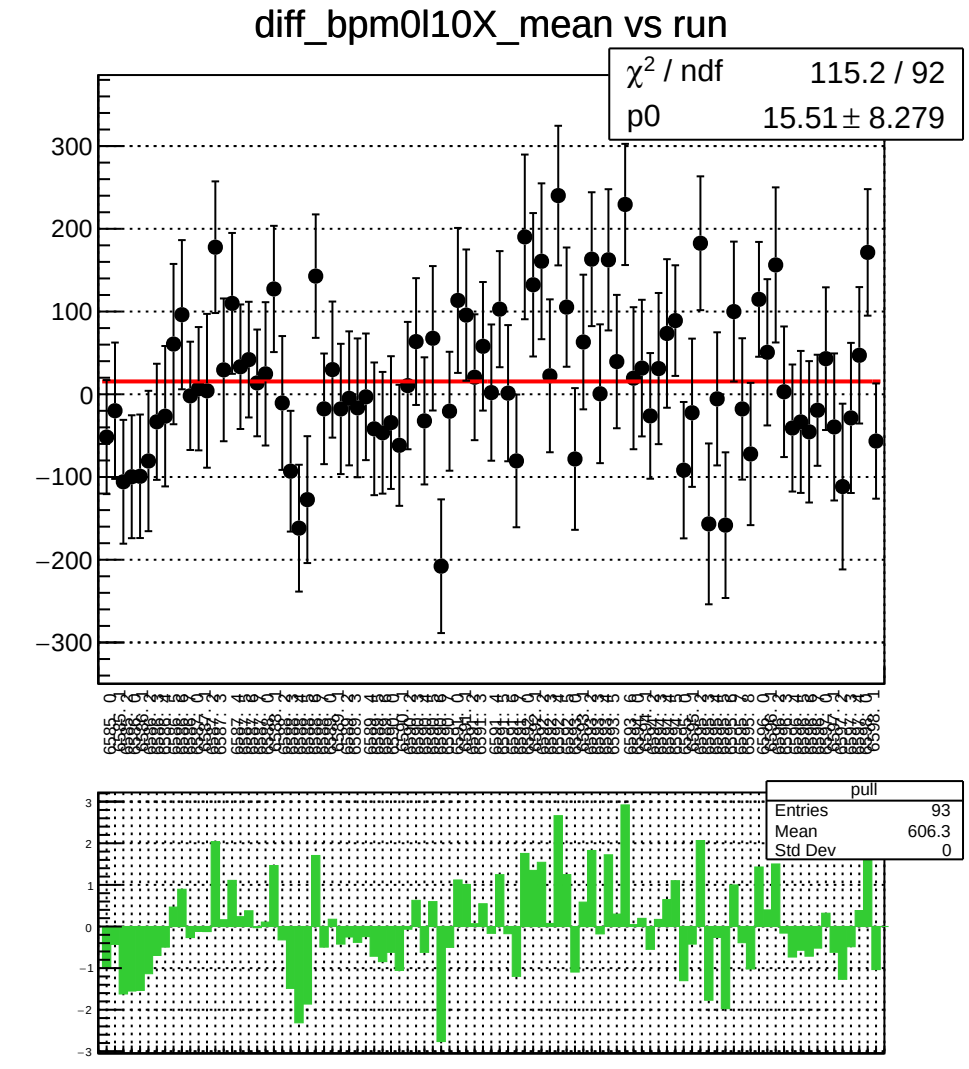

pull1D
Entries 93
Mean 0.007386
Std Dev 1.115

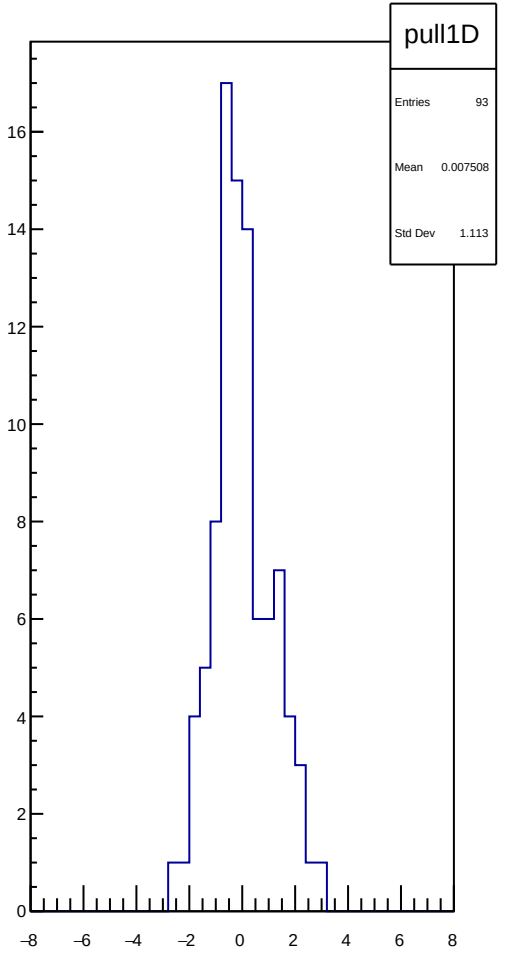

diff_bpm0l09X_rms vs run
χ² / ndf 1.222e+04 / 92
p0 9305 ± 7.017
11500
11000
10500
10000
9500
9000
8500
8000
7500

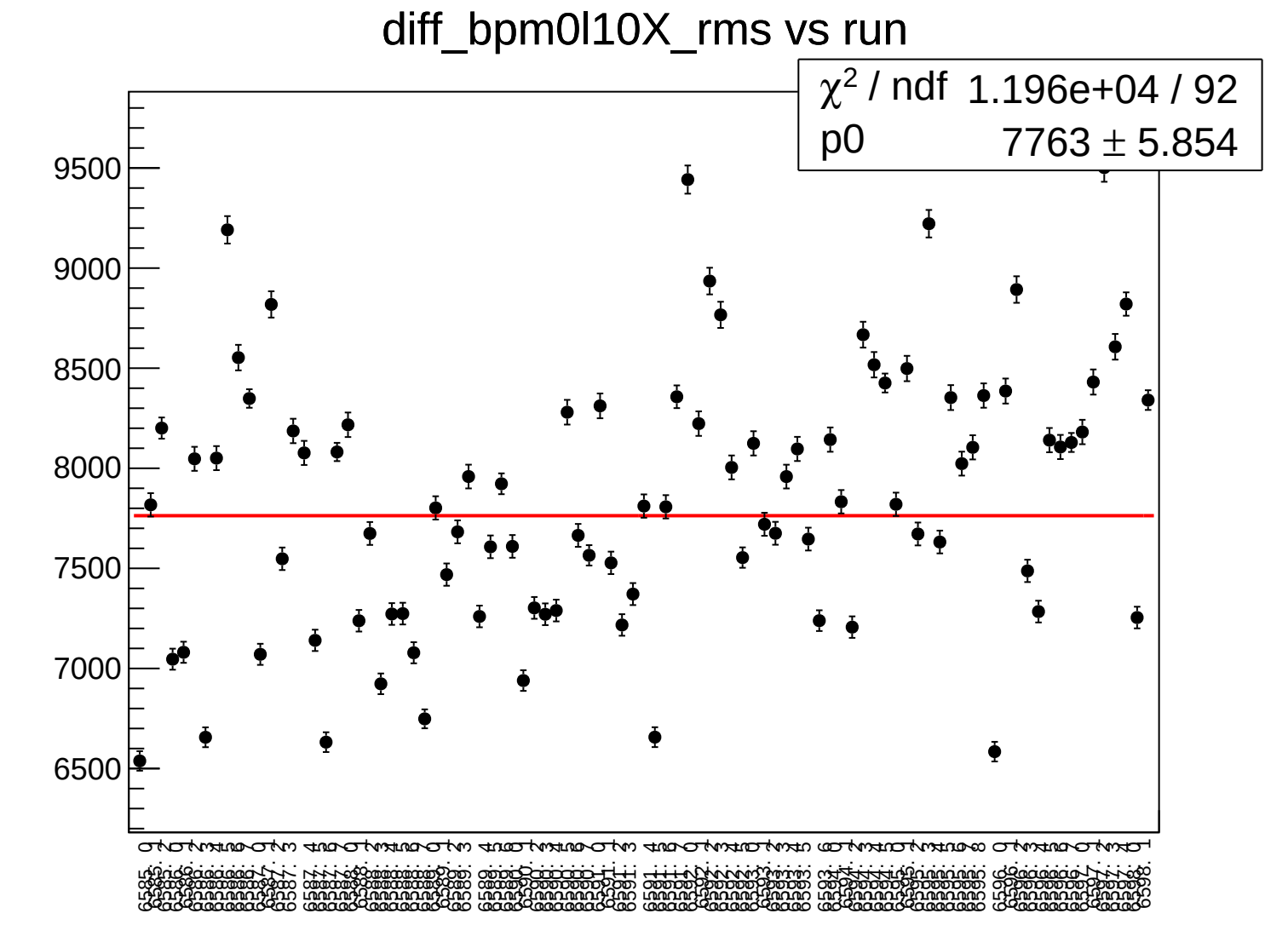

diff_bpm0l09Y_mean vs run
χ² / ndf 109.7 / 92
p0 −2.763 ± 1.186
pull
Entries 93
Mean 1.217e+04
Std Dev 0

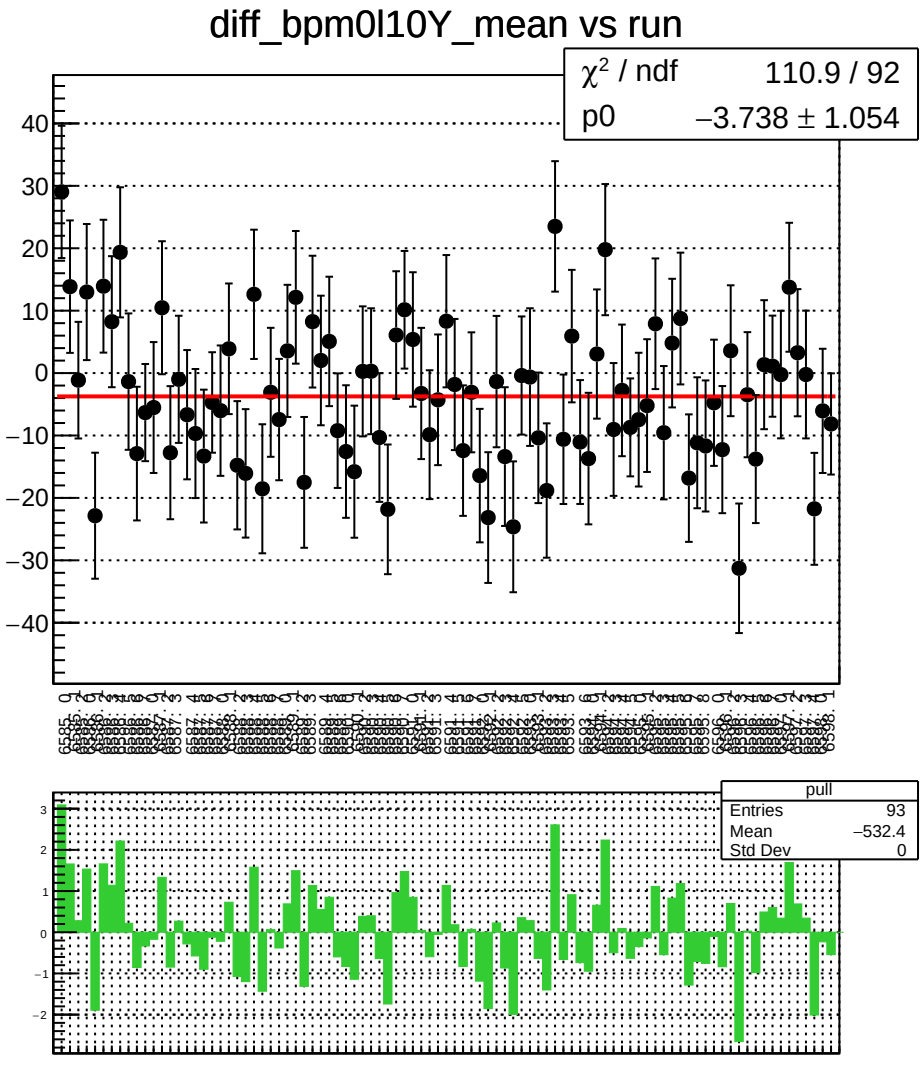

pull1D
Entries 93
Mean −0.000421
Std Dev 1.086

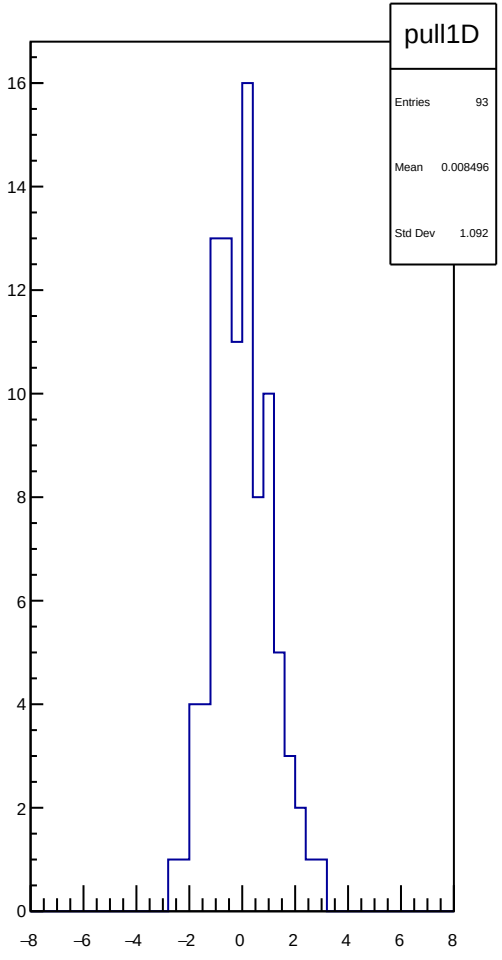

diff_bpm0l09Y_rms vs run
χ² / ndf 1769 / 92
p0 1116 ± 0.8388
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

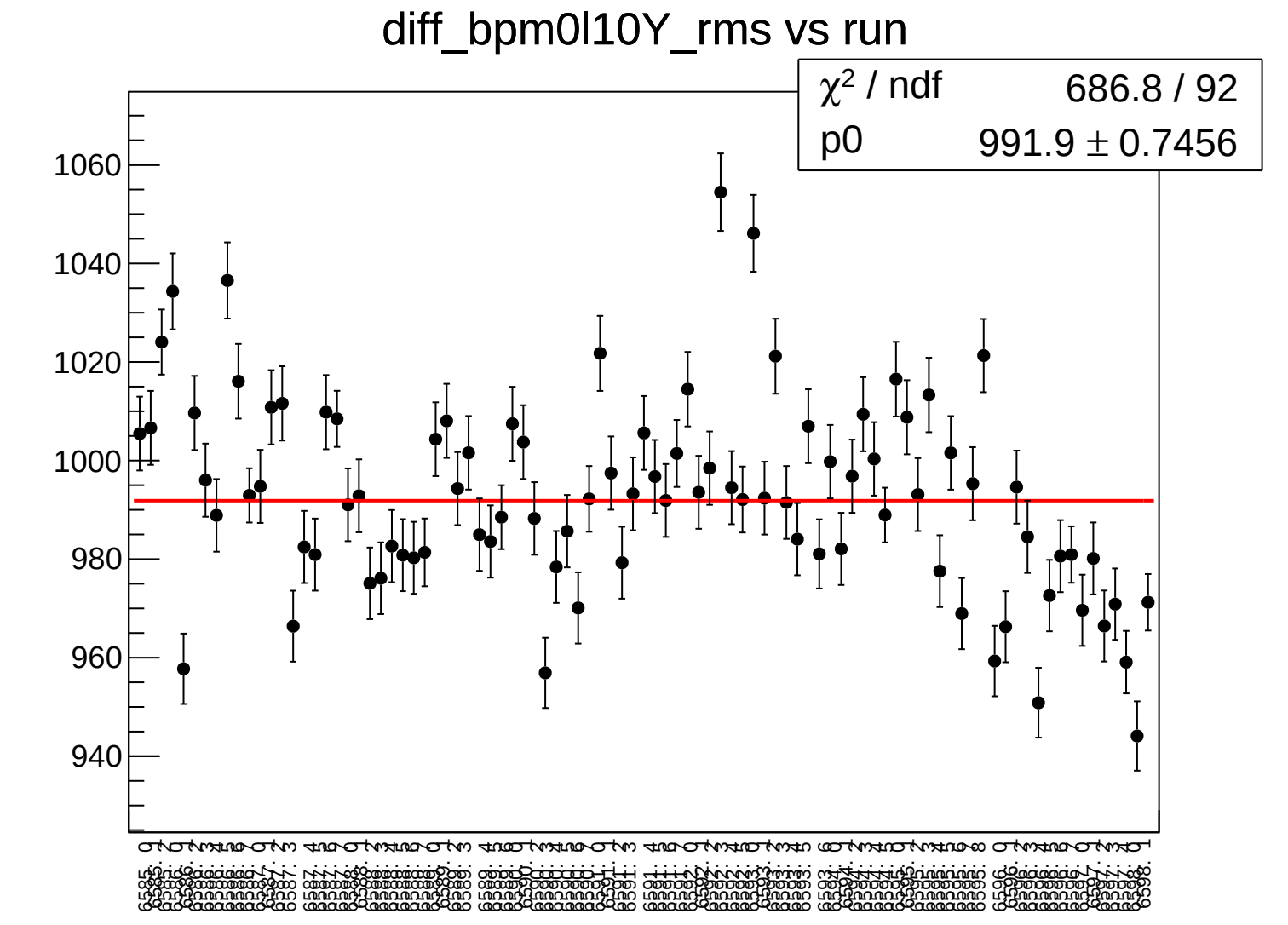

diff_bpm0l10X_mean vs run
χ² / ndf 115.2 / 92
p0 15.51 ± 8.279
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean 606.3
Std Dev 0
3
2
1
0
−1
−2
−3

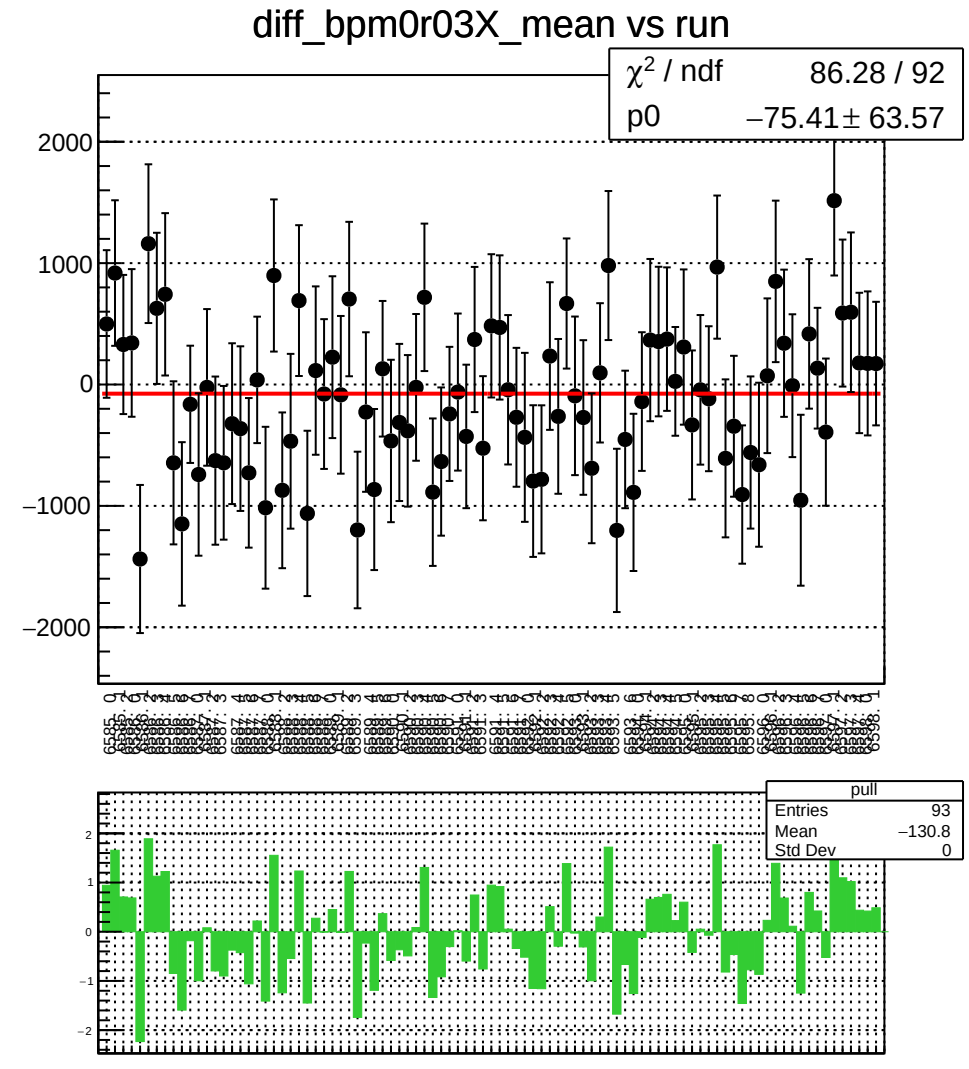

pull1D
Entries 93
Mean 0.007508
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

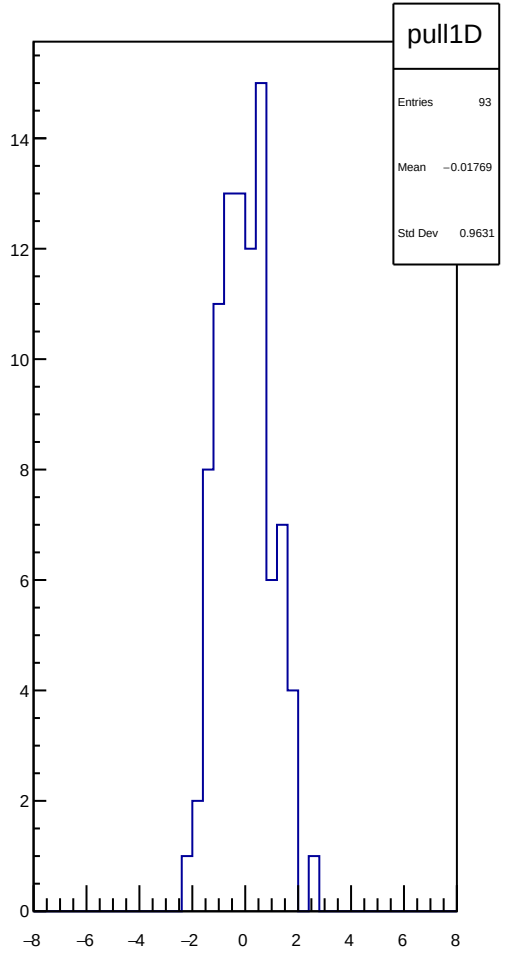

diff_bpm0l10X_rms vs run
χ² / ndf 1.196e+04 / 92
p0 7763 ± 5.854
9500
9000
8500
8000
7500
7000
6500

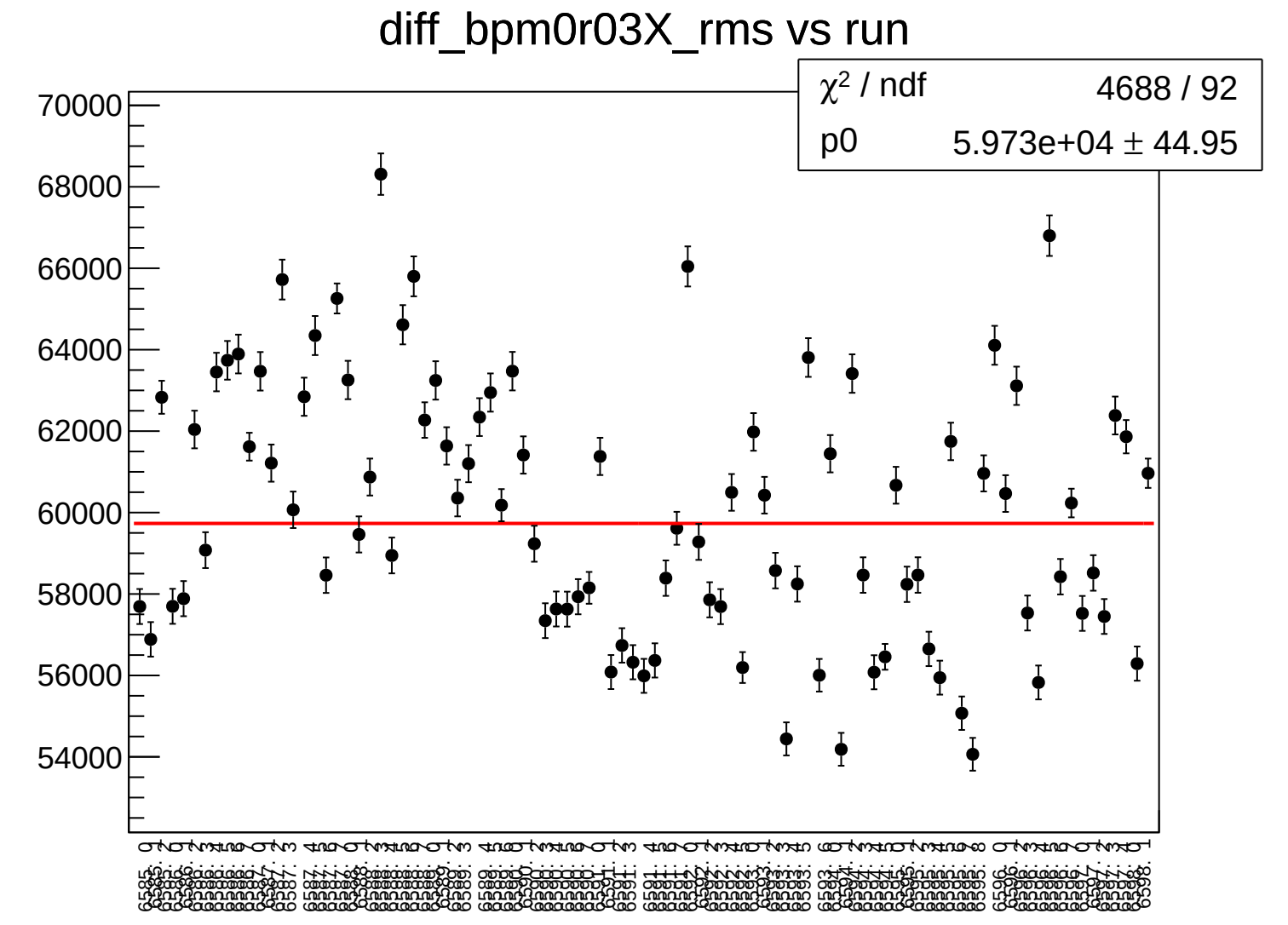

diff_bpm0l10Y_mean vs run
χ² / ndf 110.9 / 92
p0 −3.738 ± 1.054
pull
Entries 93
Mean −532.4
Std Dev 0

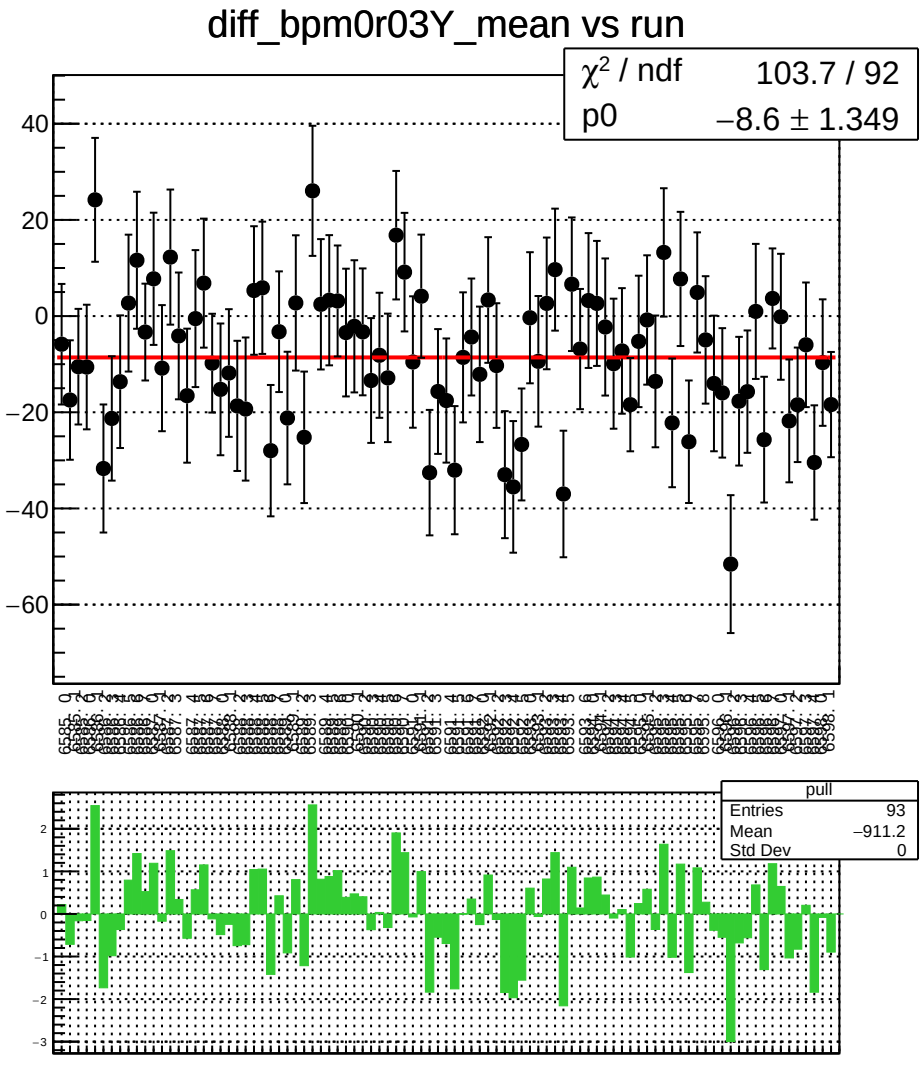

pull1D
Entries 93
Mean 0.008496
Std Dev 1.092

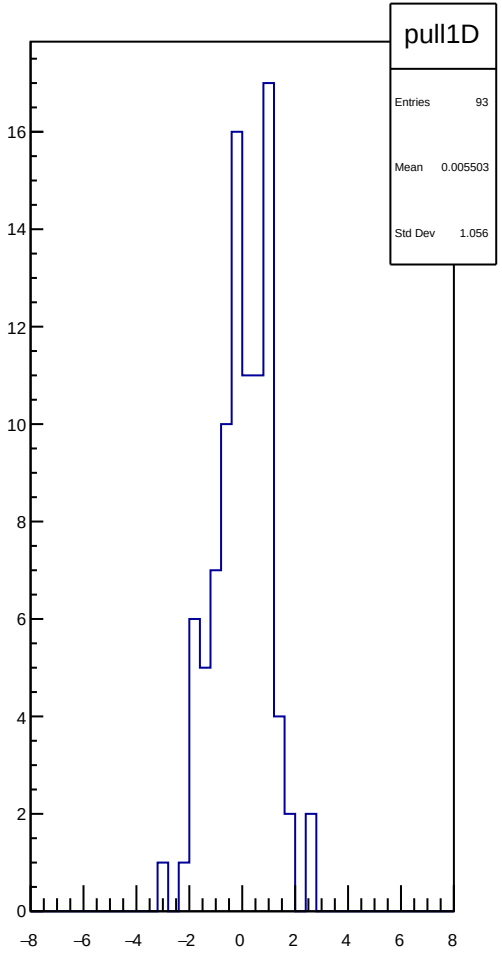

diff_bpm0l10Y_rms vs run
χ² / ndf 686.8 / 92
p0 991.9 ± 0.7456
1060
1040
1020
1000
980
960
940

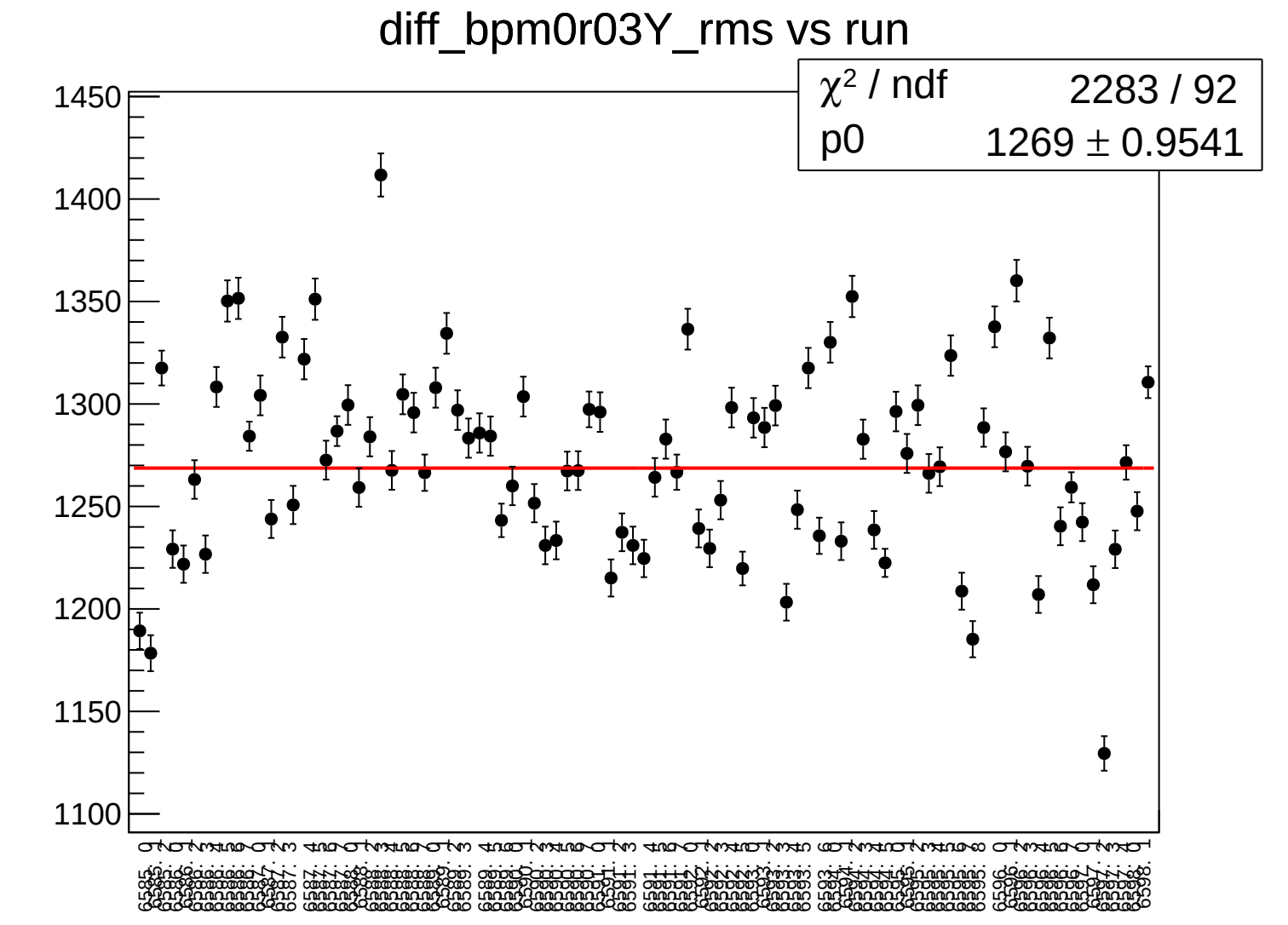

diff_bpm0r03X_mean vs run
χ² / ndf 86.28 / 92
p0 −75.41 ± 63.57
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −130.8
Std Dev 0
2
1
0
−1
−2

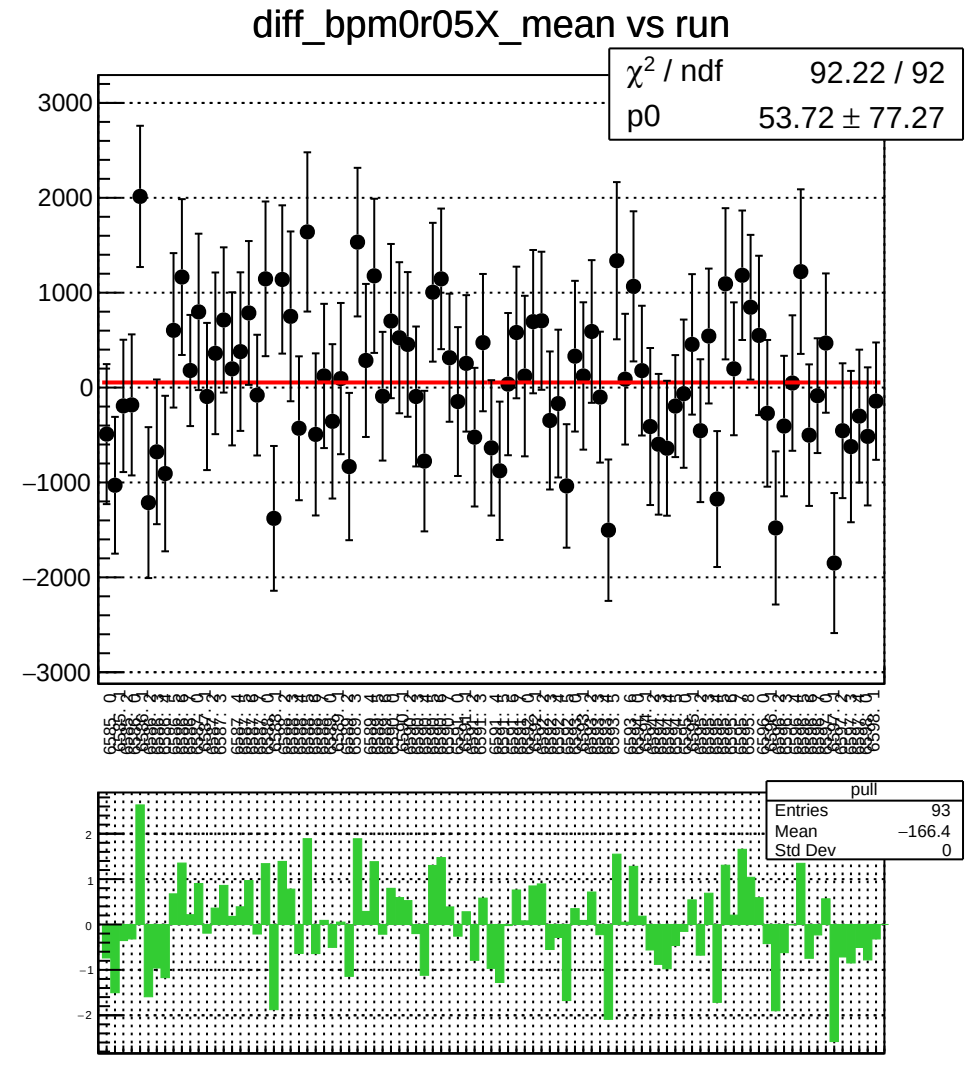

pull1D
Entries 93
Mean −0.01769
Std Dev 0.9631
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

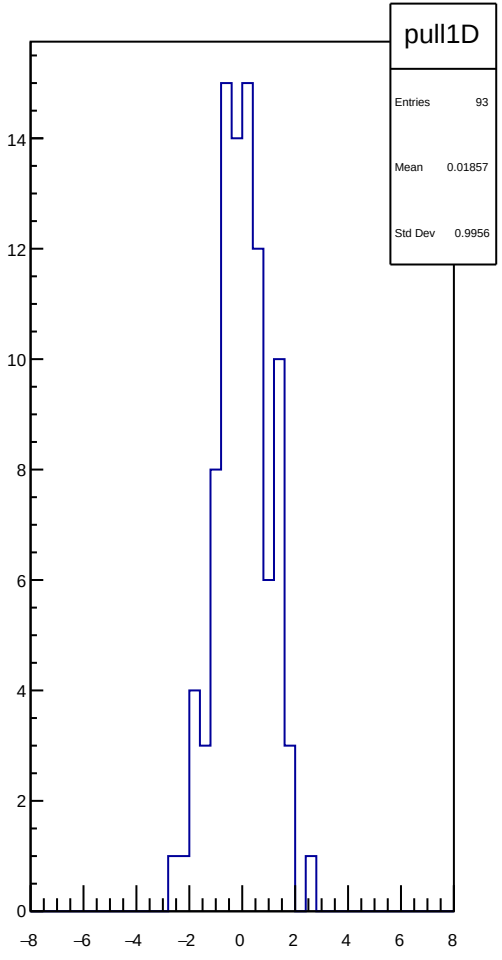

diff_bpm0r03X_rms vs run
χ² / ndf 4688 / 92
p0 5.973e+04 ± 44.95
70000
68000
66000
64000
62000
60000
58000
56000
54000

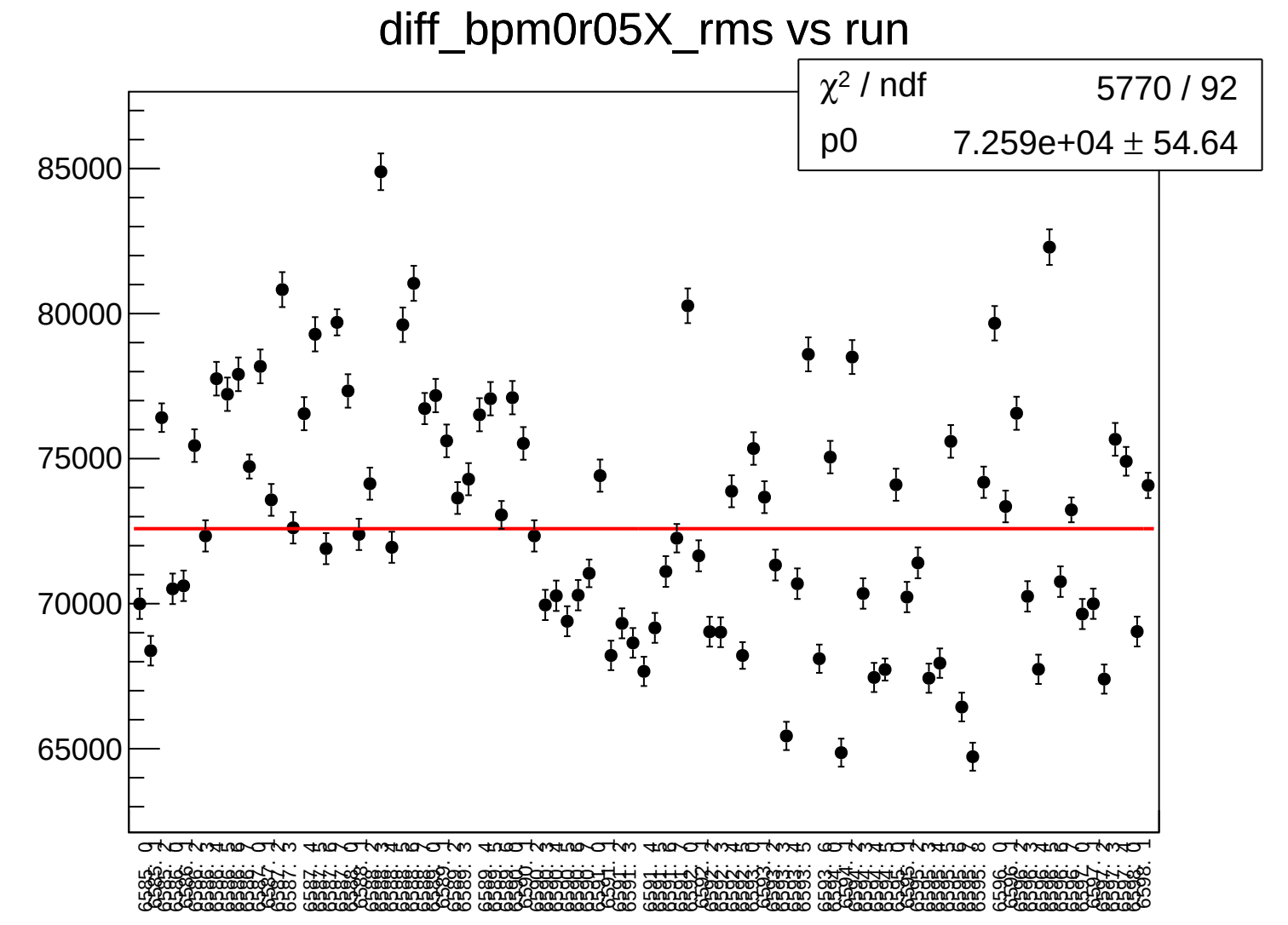

diff_bpm0r03Y_mean vs run
χ² / ndf 103.7 / 92
p0 −8.6 ± 1.349
pull
Entries 93
Mean −911.2
Std Dev 0

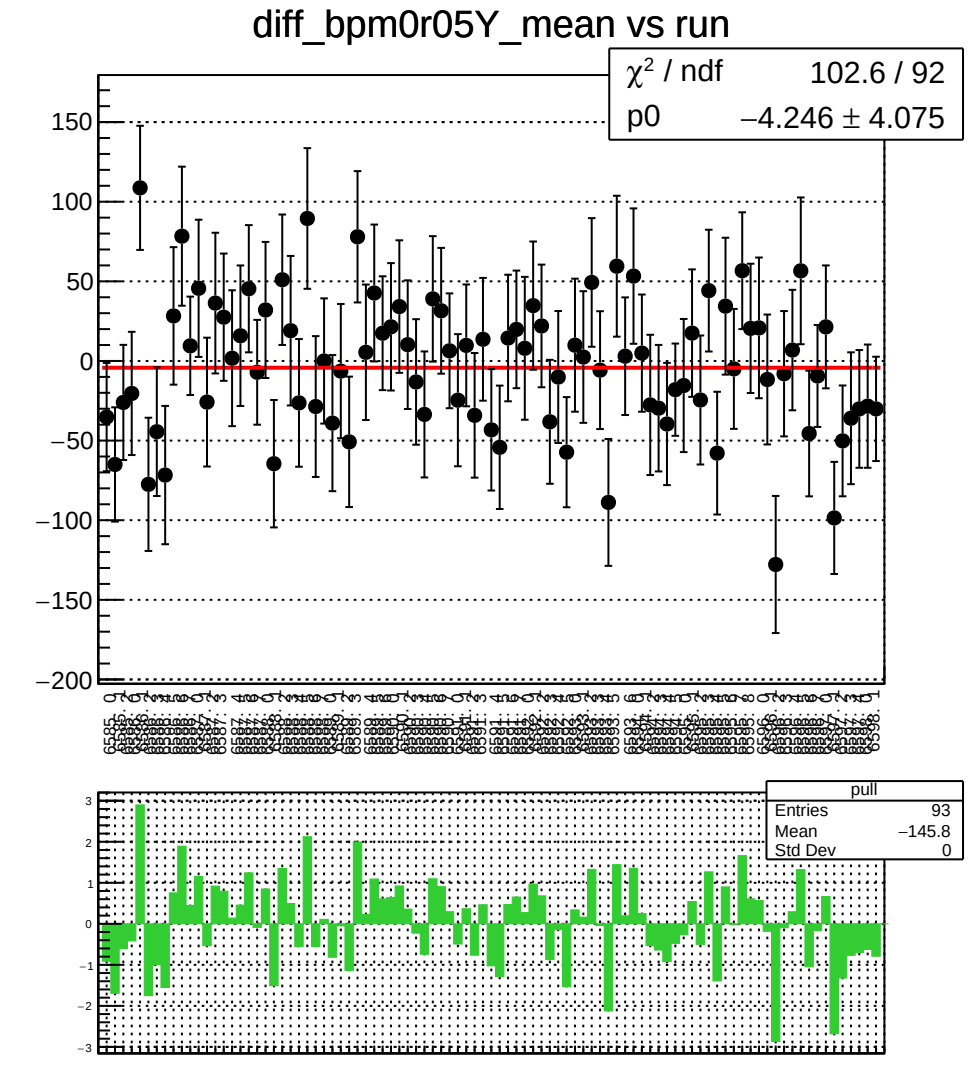

pull1D
Entries 93
Mean 0.005503
Std Dev 1.056

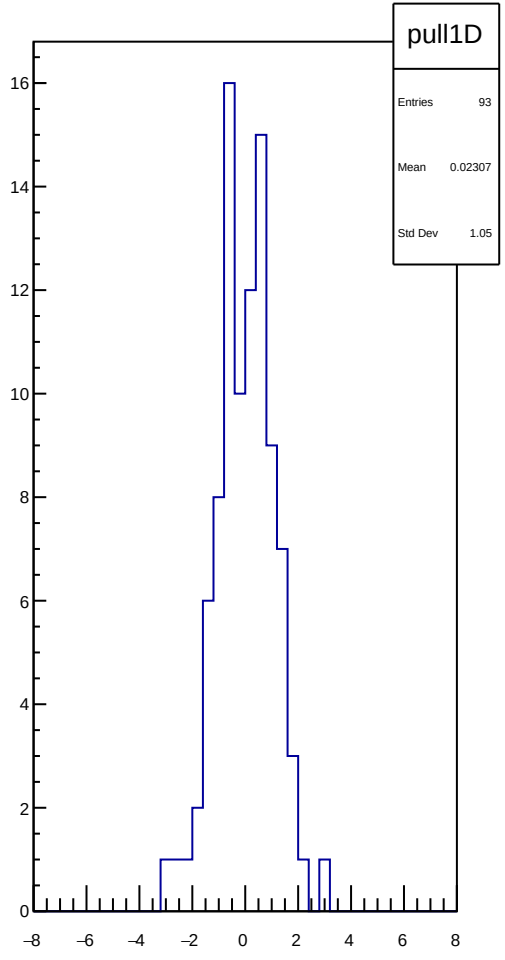

diff_bpm0r03Y_rms vs run
χ² / ndf 2283 / 92
p0 1269 ± 0.9541
1450
1400
1350
1300
1250
1200
1150
1100

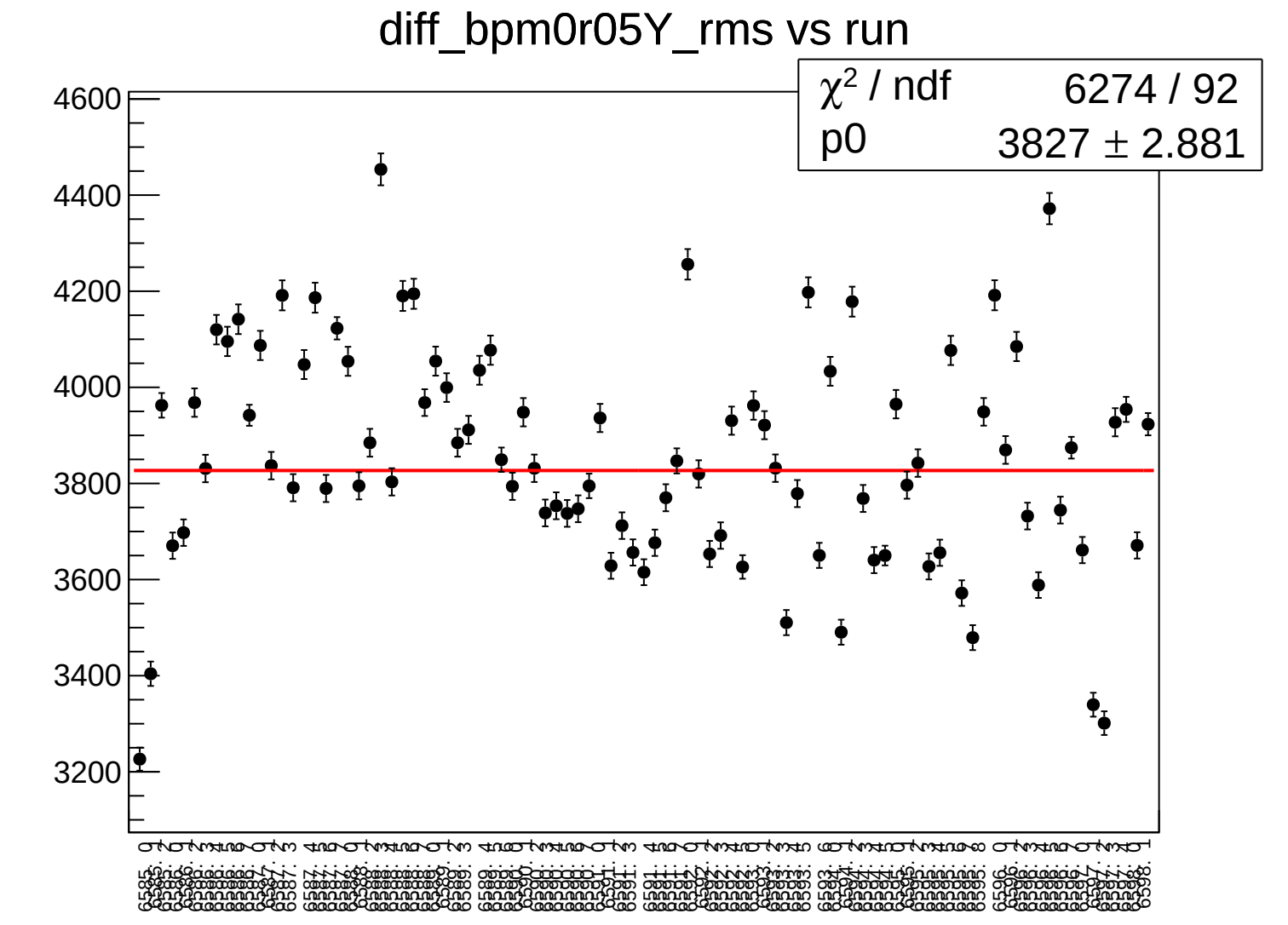

diff_bpm0r05X_mean vs run
χ² / ndf 92.22 / 92
p0 53.72 ± 77.27
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −166.4
Std Dev 0
2
1
0
−1
−2

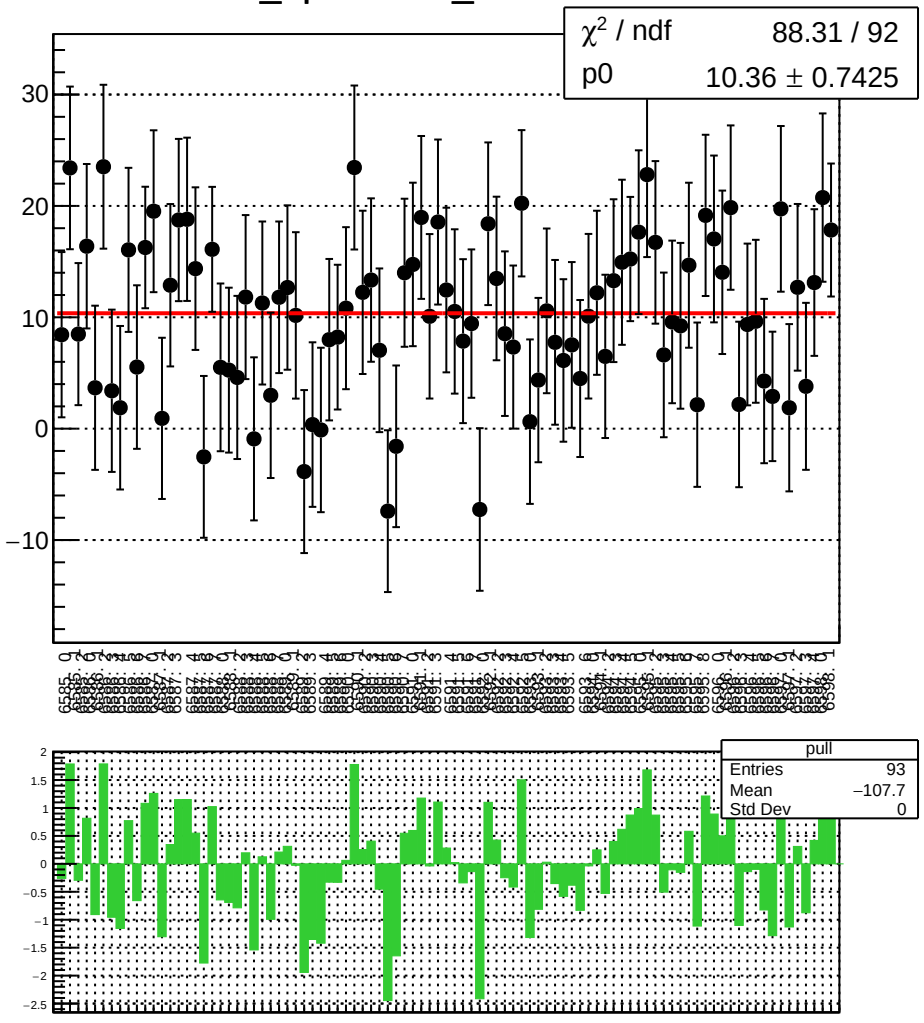

pull1D
Entries 93
Mean 0.01857
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

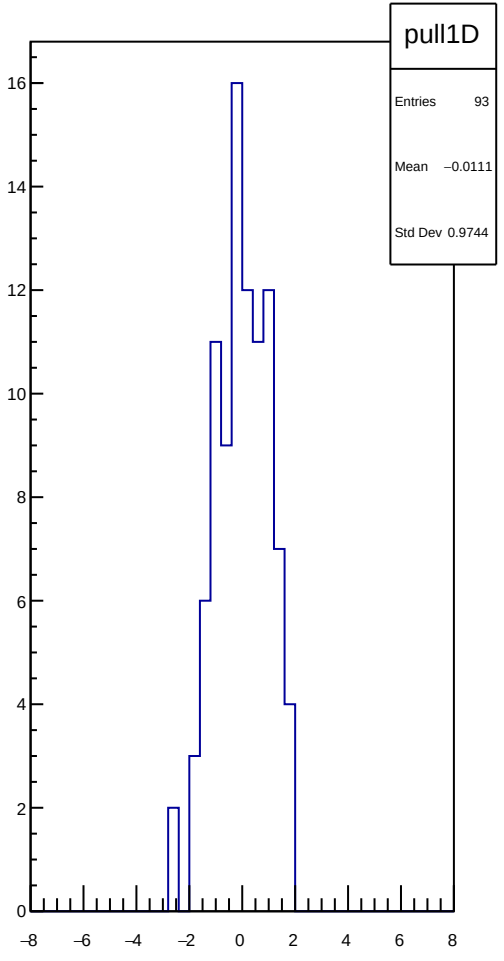

diff_bpm0r05X_rms vs run
χ² / ndf 5770 / 92
p0 7.259e+04 ± 54.64
85000
80000
75000
70000
65000

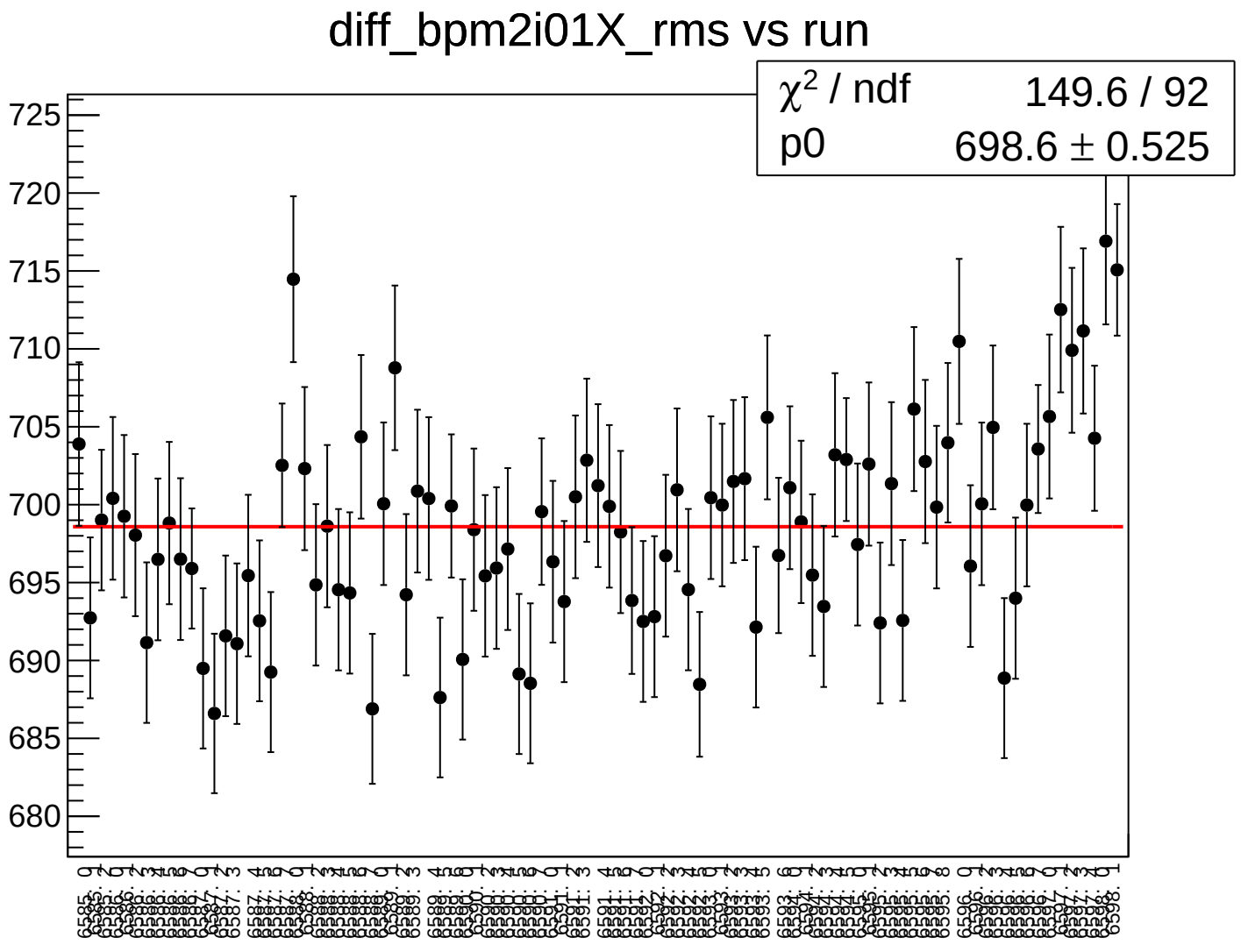

diff_bpm0r05Y_mean vs run
χ² / ndf 102.6 / 92
p0 −4.246 ± 4.075
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −145.8
Std Dev 0
3
2
1
0
−1
−2
−3

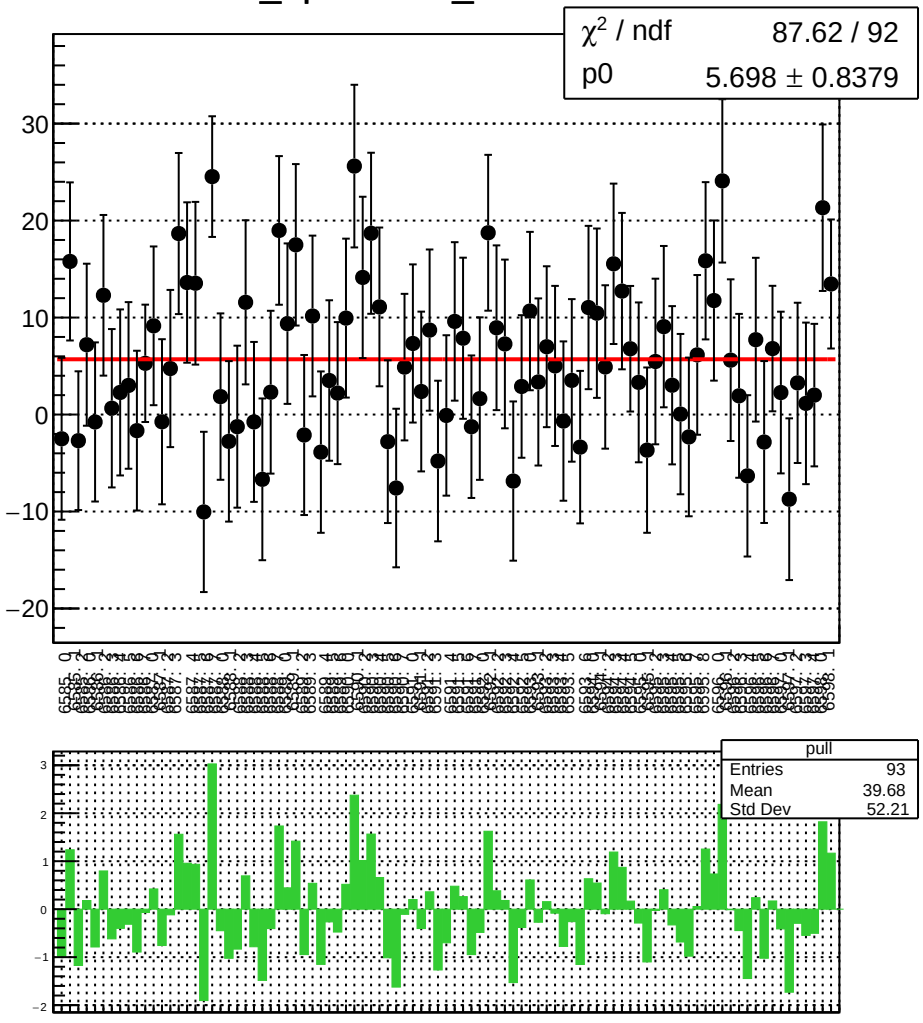

pull1D
Entries 93
Mean 0.02307
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

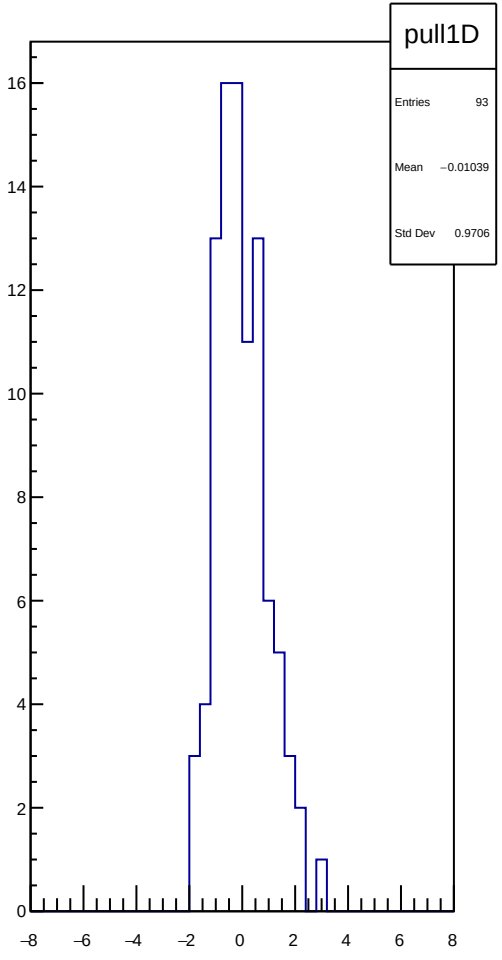

diff_bpm0r05Y_rms vs run
χ² / ndf 6274 / 92
p0 3827 ± 2.881
4600
4400
4200
4000
3800
3600
3400
3200

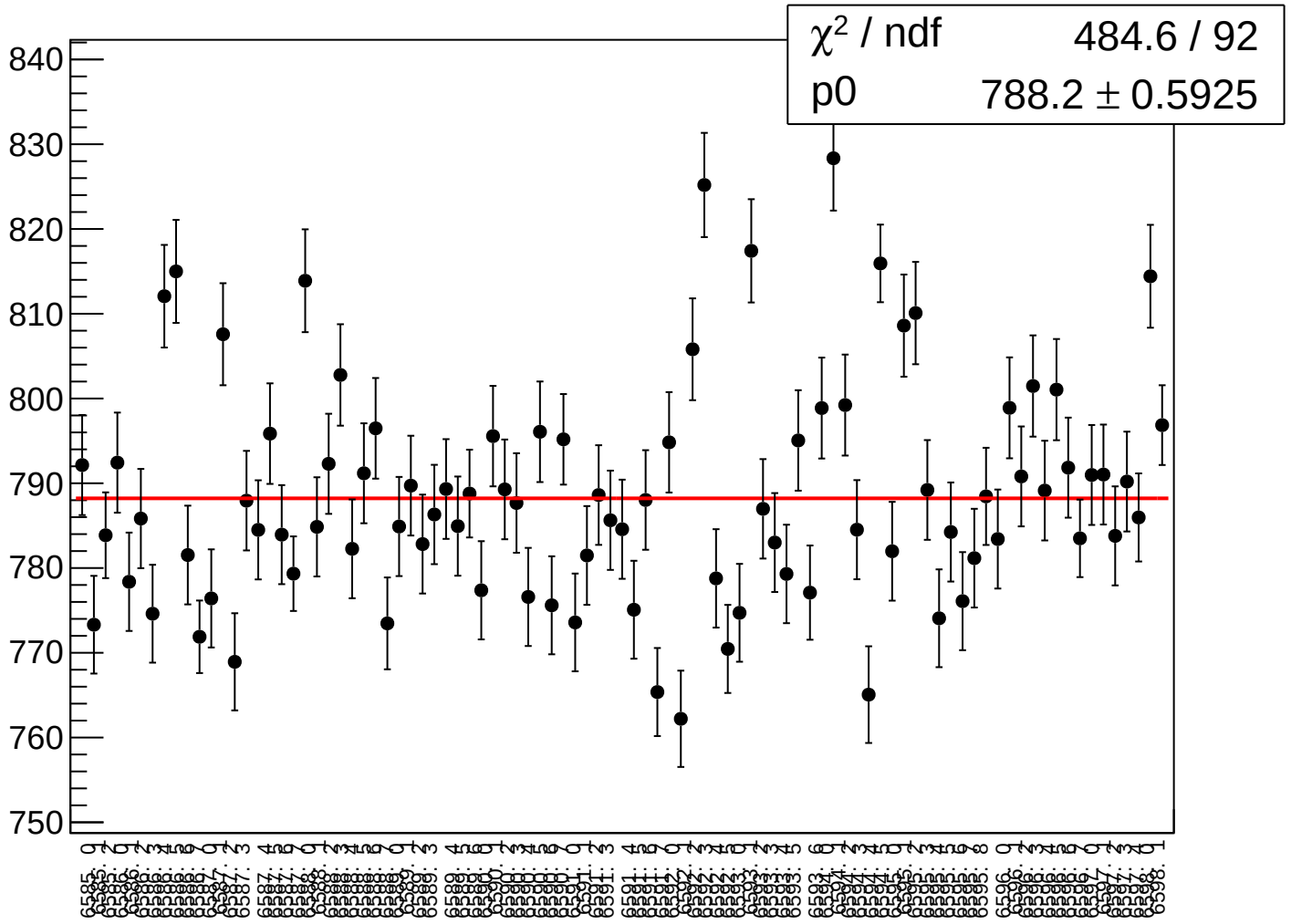

diff_bpm2i01X_mean vs run
χ² / ndf 88.31 / 92
p0 10.36 ± 0.7425
pull
Entries 93
Mean −107.7
Std Dev 0

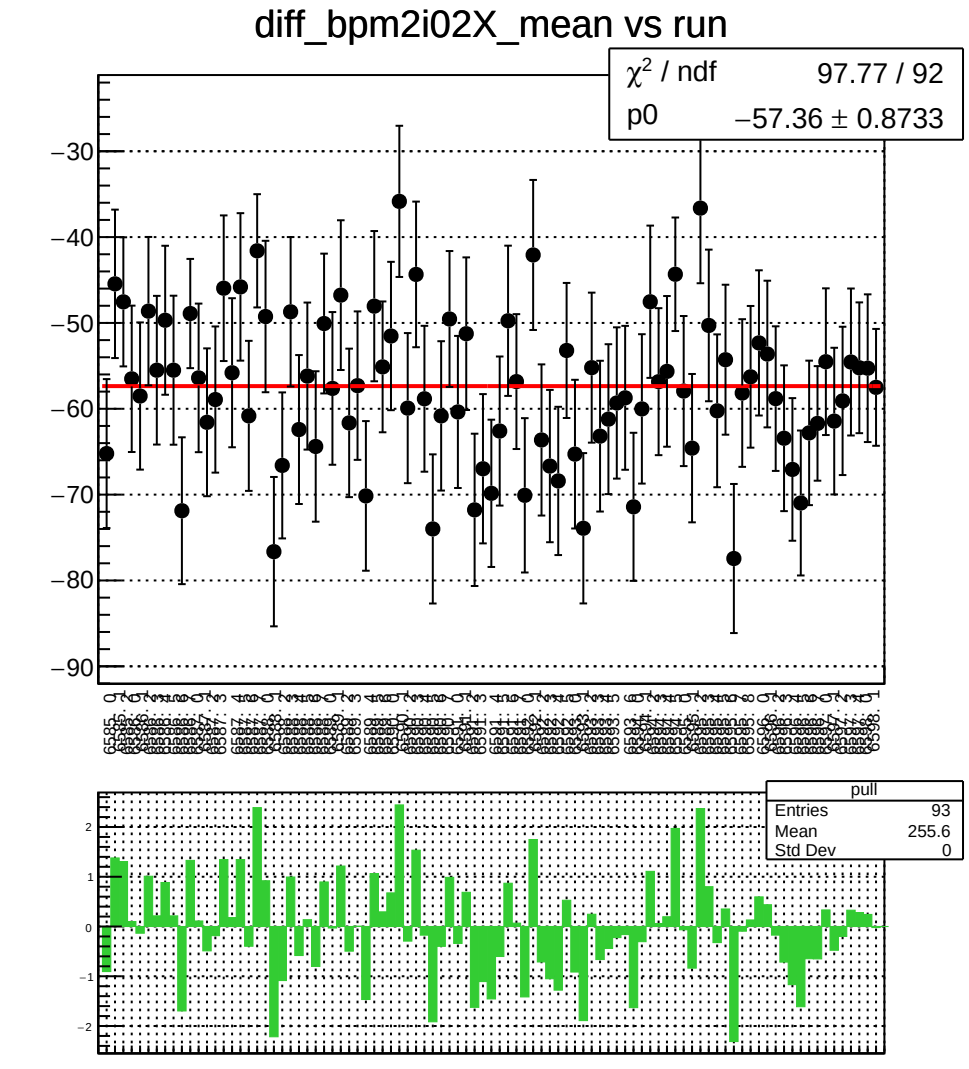

pull1D
Entries 93
Mean −0.0111
Std Dev 0.9744

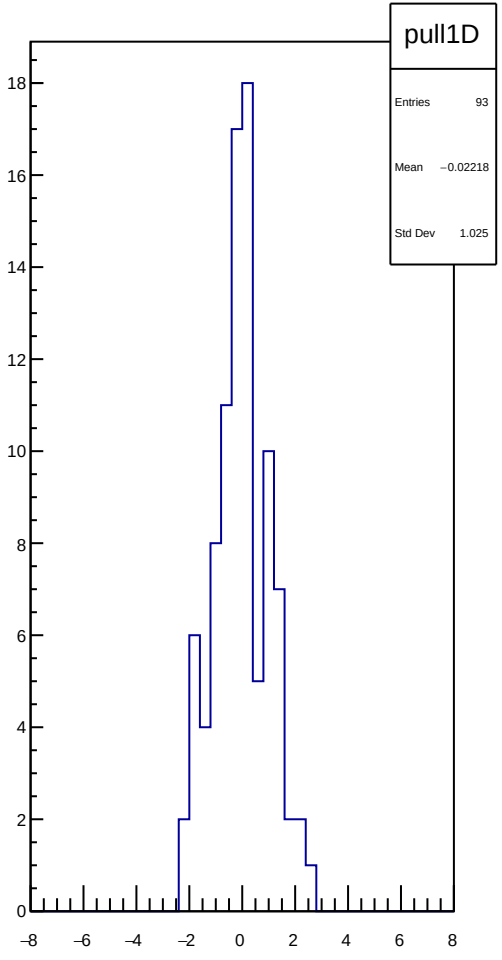

diff_bpm2i01X_rms vs run
χ² / ndf 149.6 / 92
p0 698.6 ± 0.525
725
720
715
710
705
700
695
690
685
680

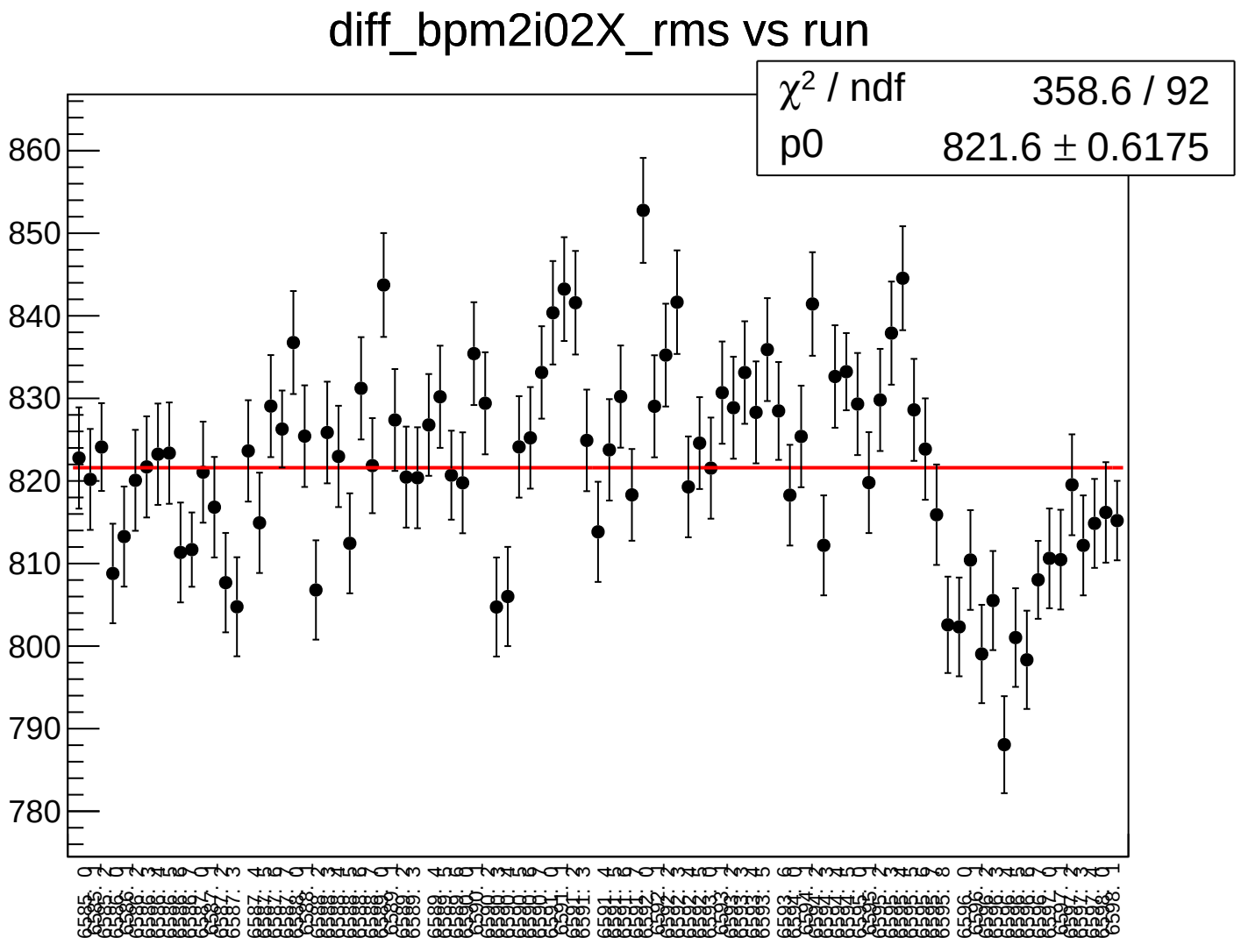

diff_bpm2i01Y_mean vs run
χ² / ndf 87.62 / 92
p0 5.698 ± 0.8379
pull
Entries 93
Mean 39.68
Std Dev 52.21

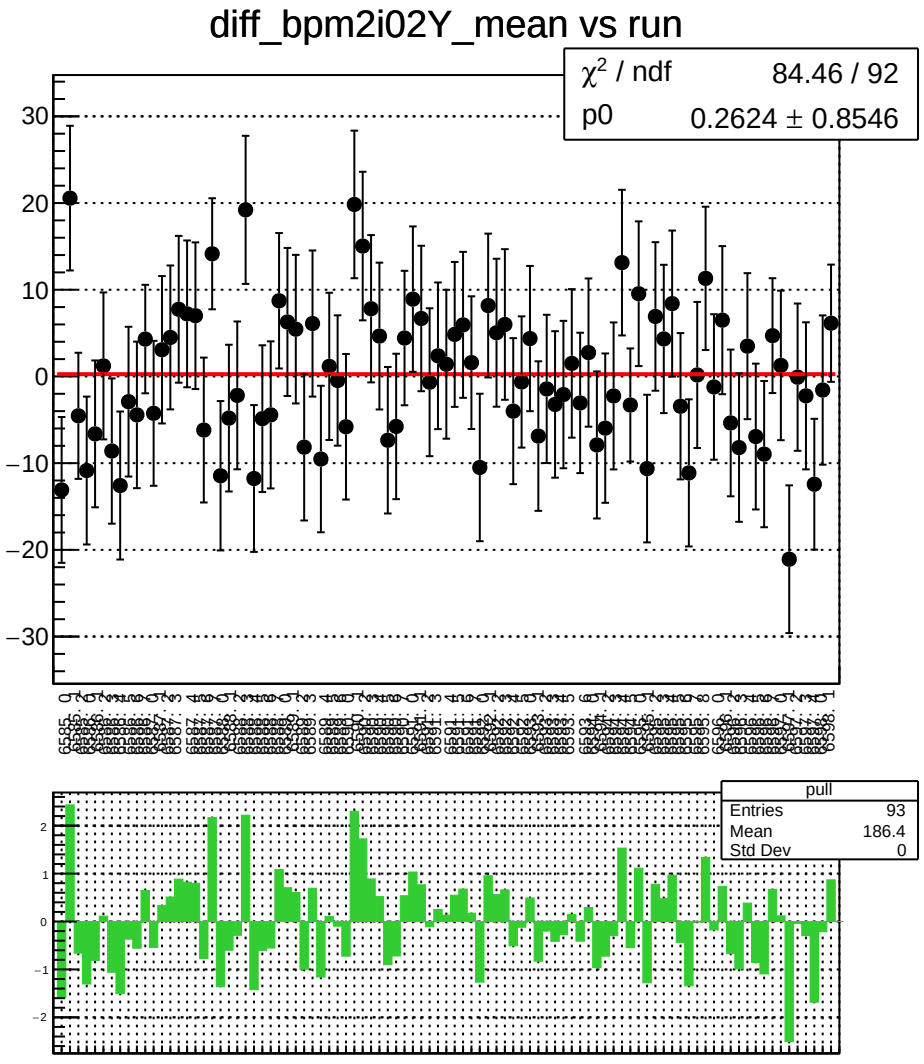

pull1D
Entries 93
Mean −0.01039
Std Dev 0.9706

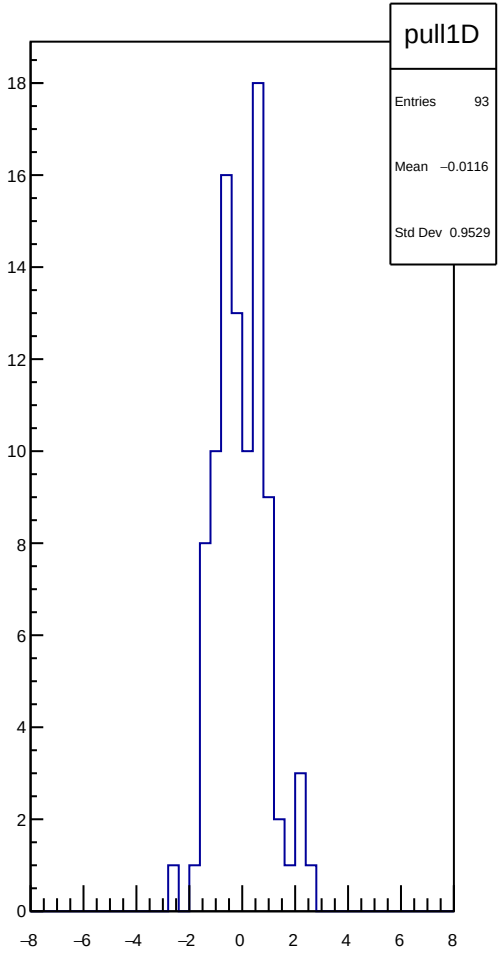

diff_bpm2i01Y_rms vs run
χ² / ndf 484.6 / 92
p0 788.2 ± 0.5925
840
830
820
810
800
790
780
770
760
750

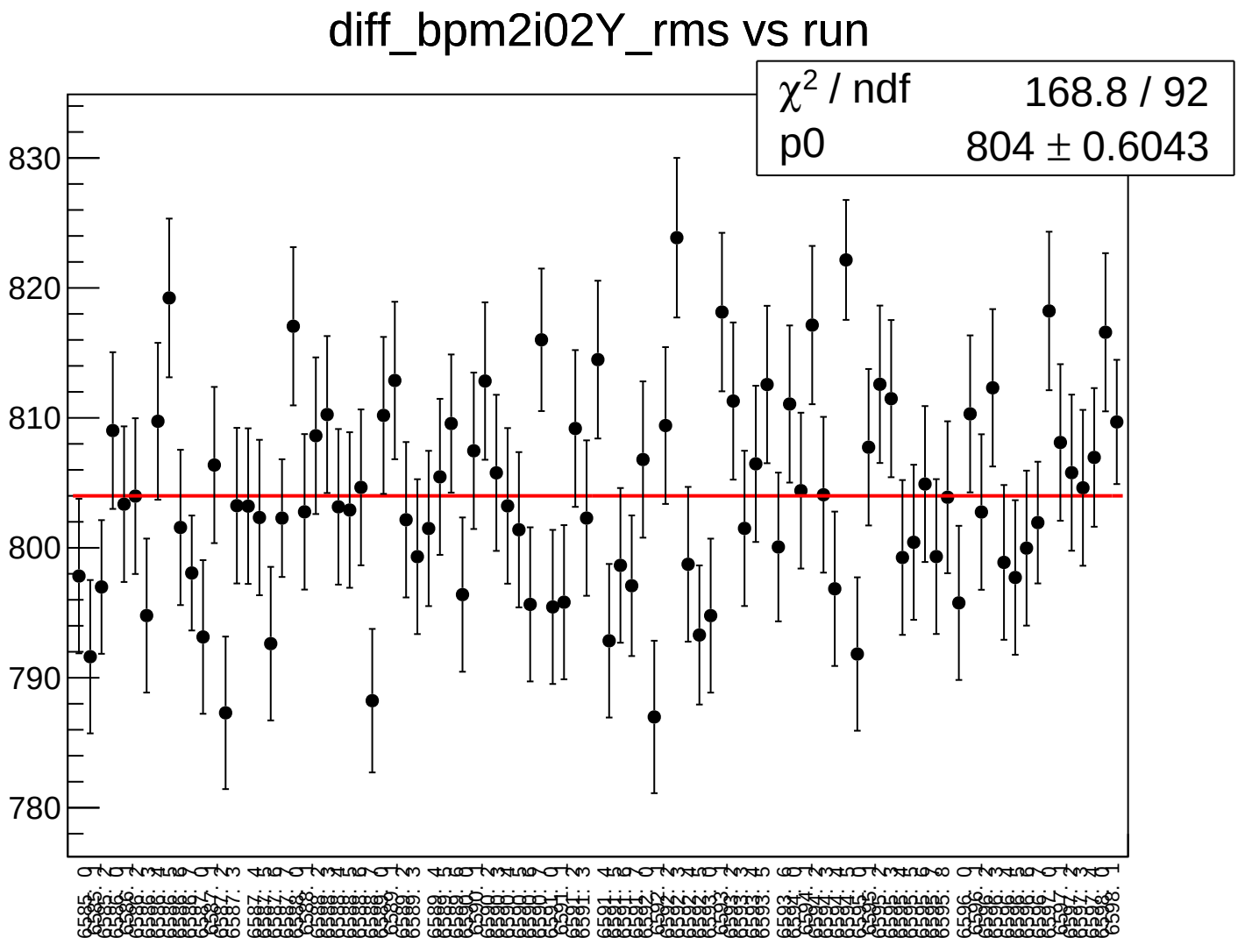

diff_bpm2i02X_mean vs run
χ² / ndf 97.77 / 92
p0 −57.36 ± 0.8733
pull
Entries 93
Mean 255.6
Std Dev 0

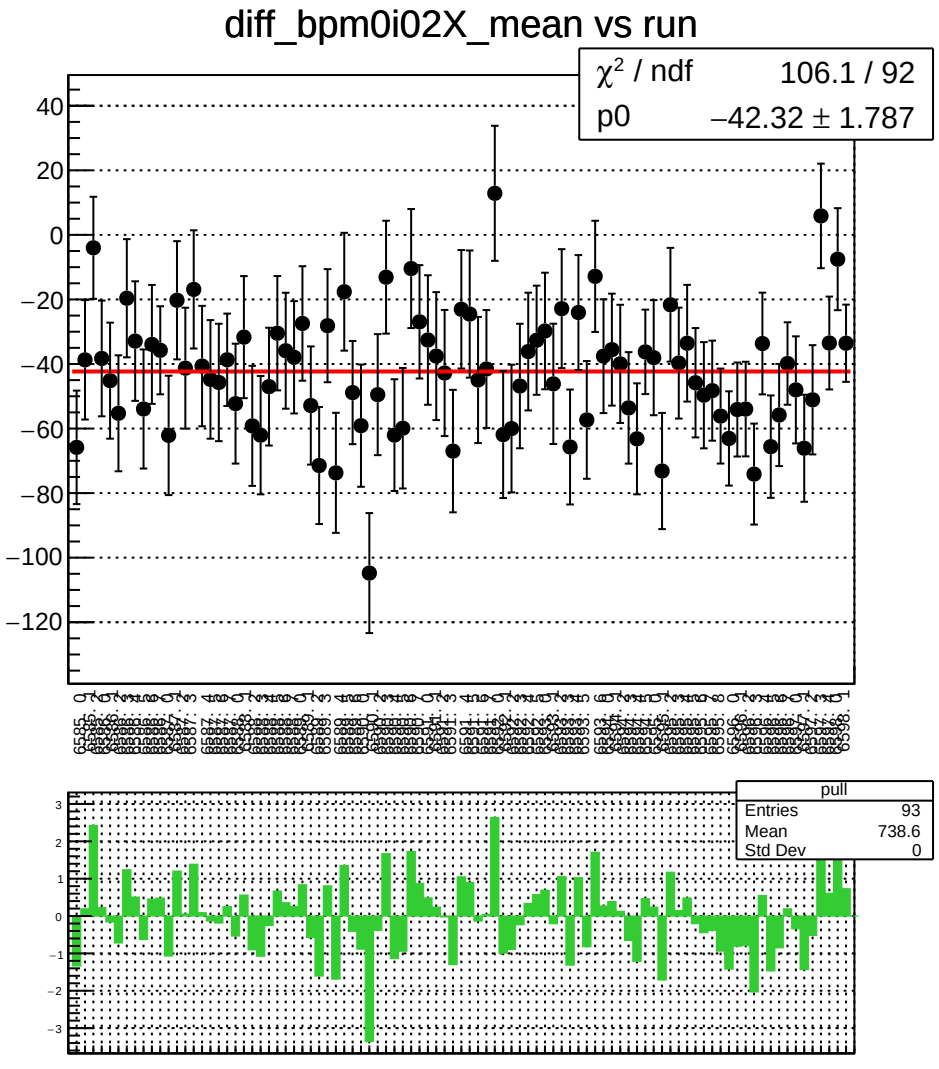

pull1D
Entries 93
Mean −0.02218
Std Dev 1.025

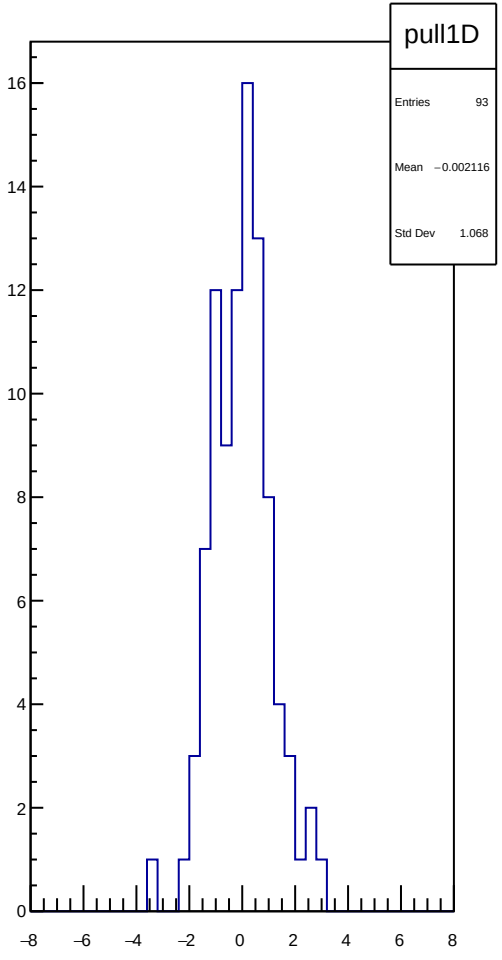

diff_bpm2i02X_rms vs run
χ² / ndf 358.6 / 92
p0 821.6 ± 0.6175
860
850
840
830
820
810
800
790
780

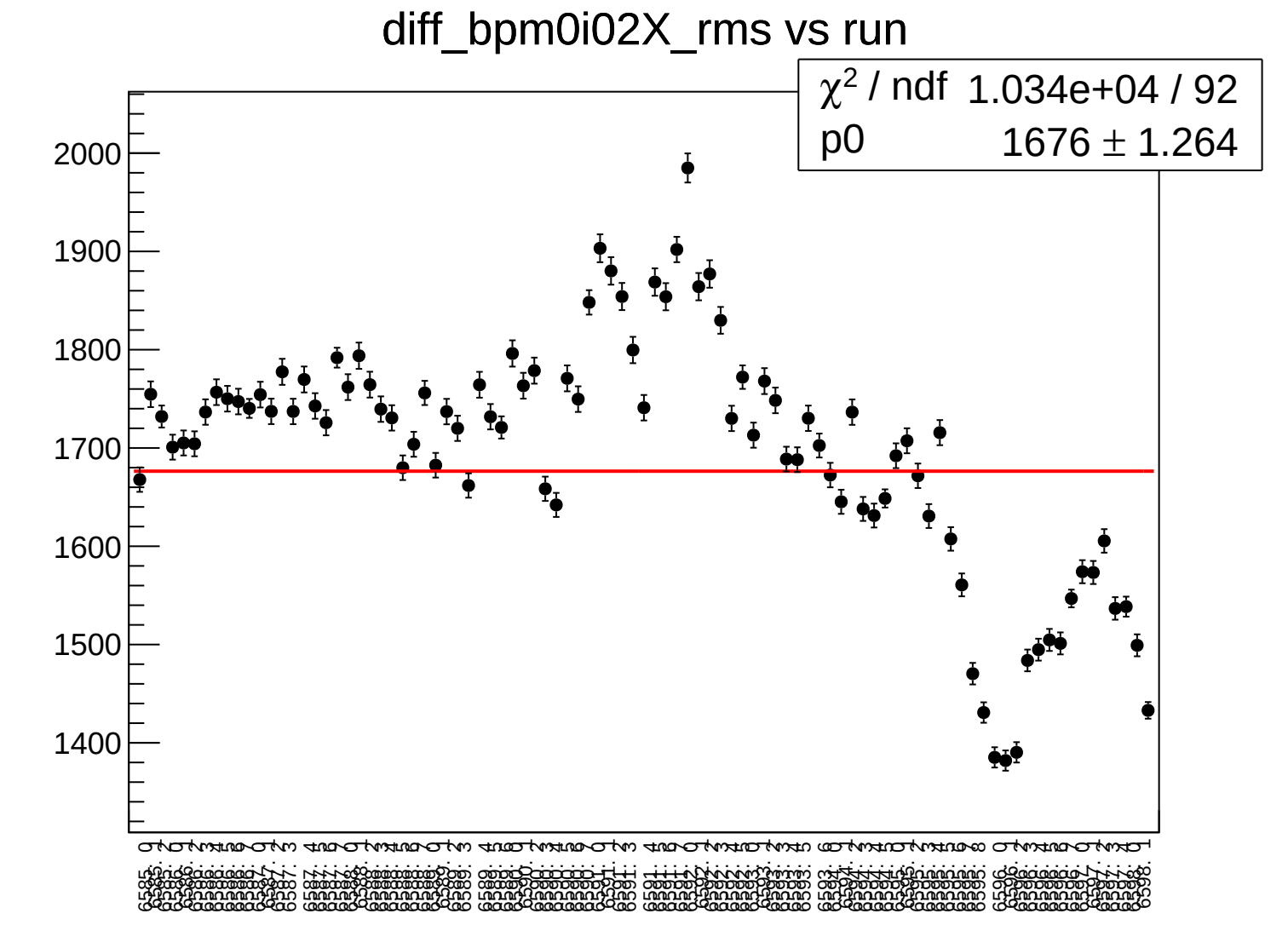

diff_bpm2i02Y_mean vs run
χ² / ndf 84.46 / 92
p0 0.2624 ± 0.8546
pull
Entries 93
Mean 186.4
Std Dev 0

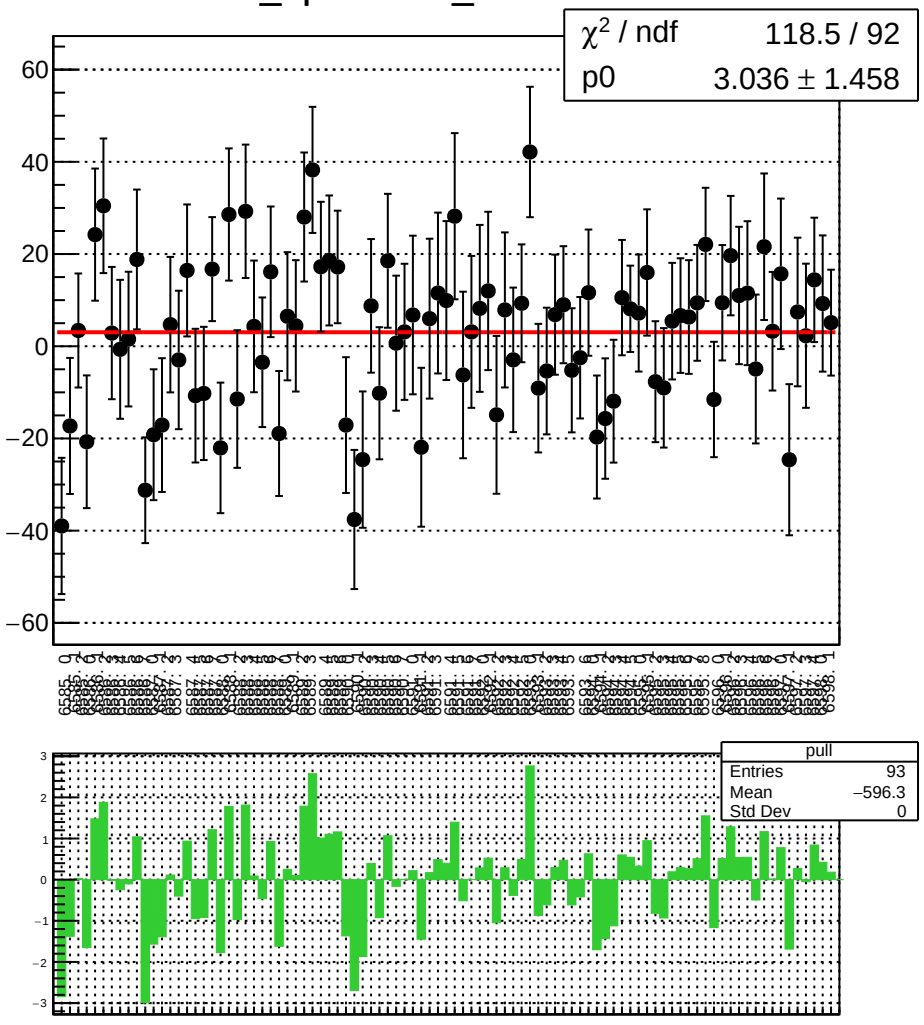

pull1D
Entries 93
Mean −0.0116
Std Dev 0.9529

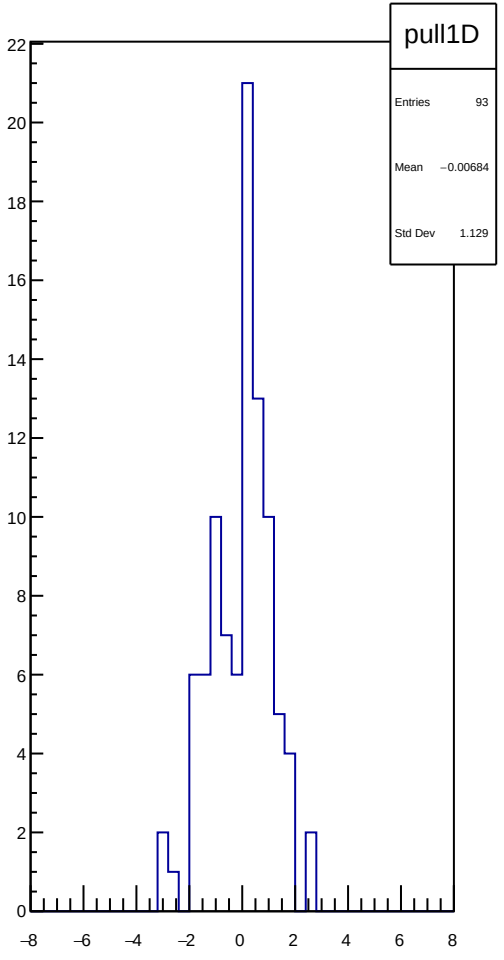

diff_bpm2i02Y_rms vs run
χ^2 / ndf 168.8 / 92
p0 804 ± 0.6043
830
820
810
800
790
780

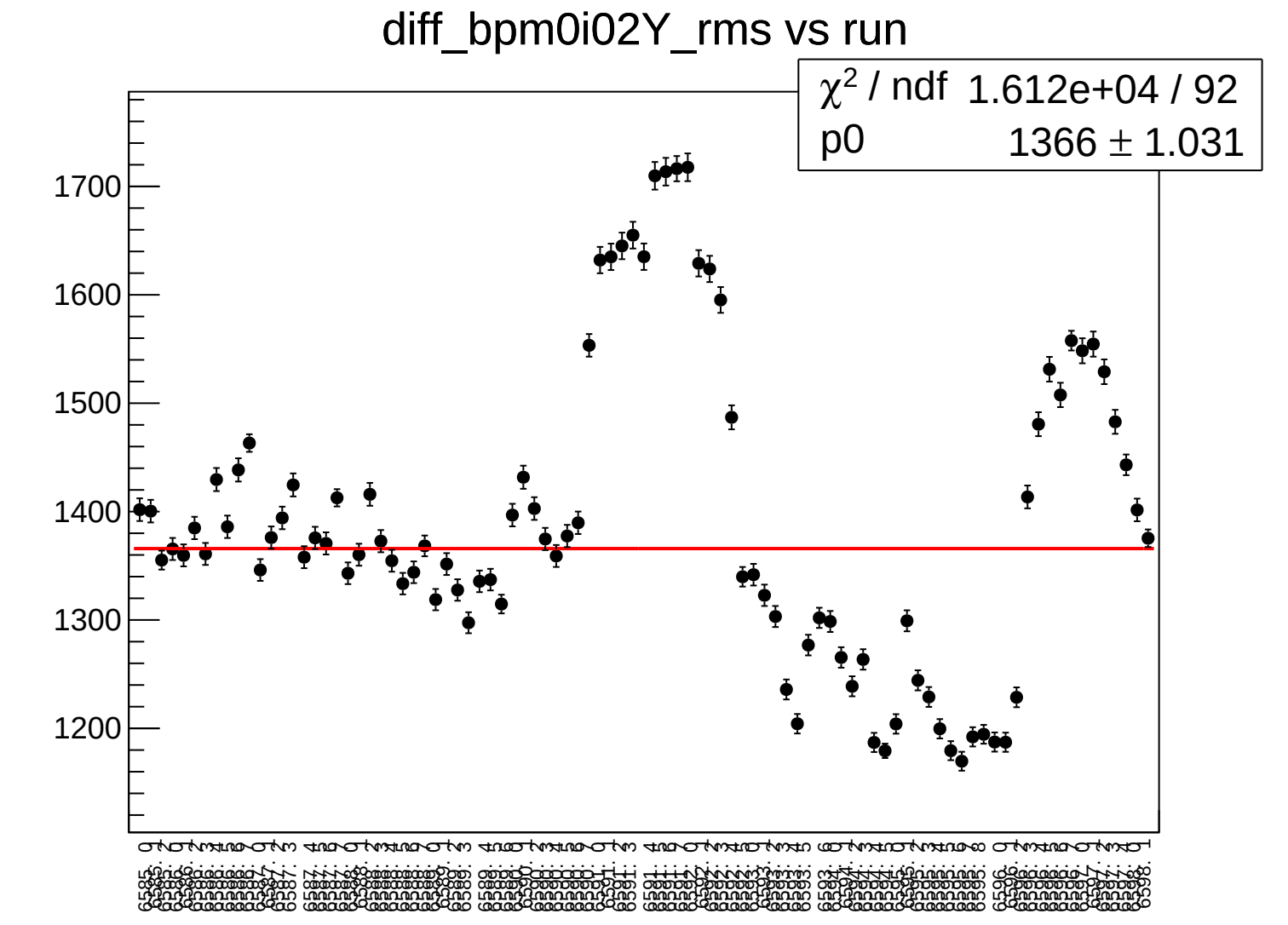

diff_bpm0i02X_mean vs run
χ² / ndf 106.1 / 92
p0 −42.32 ± 1.787
pull
Entries 93
Mean 738.6
Std Dev 0

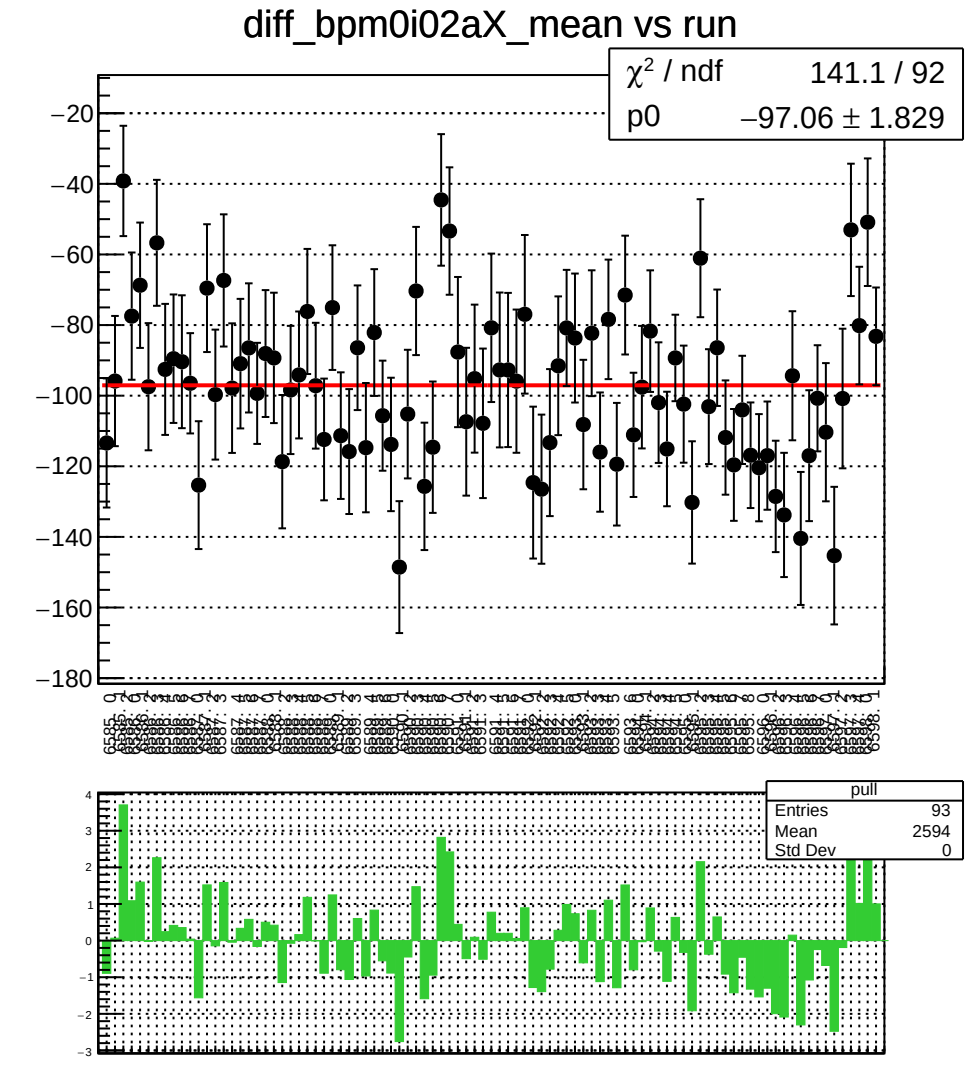

pull1D
Entries 93
Mean −0.002116
Std Dev 1.068

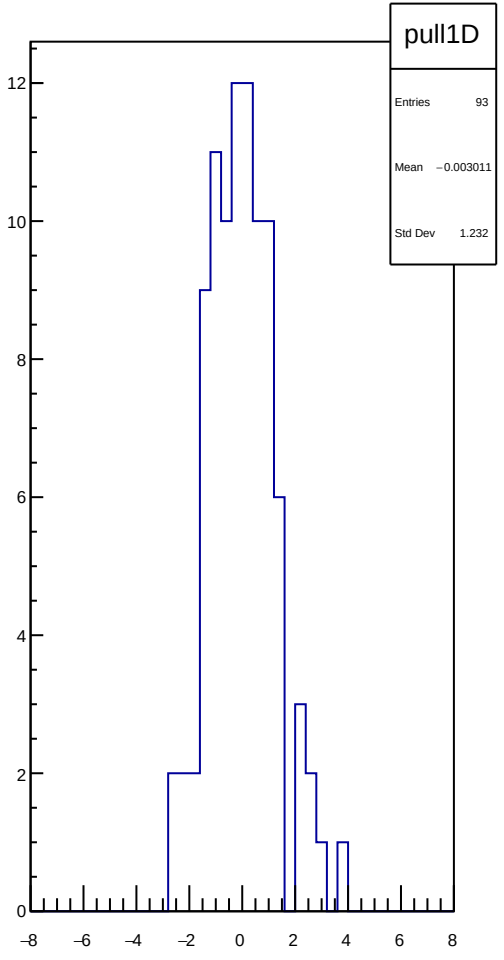

diff_bpm0i02X_rms vs run
χ² / ndf 1.034e+04 / 92
p0 1676 ± 1.264
2000
1900
1800
1700
1600
1500
1400

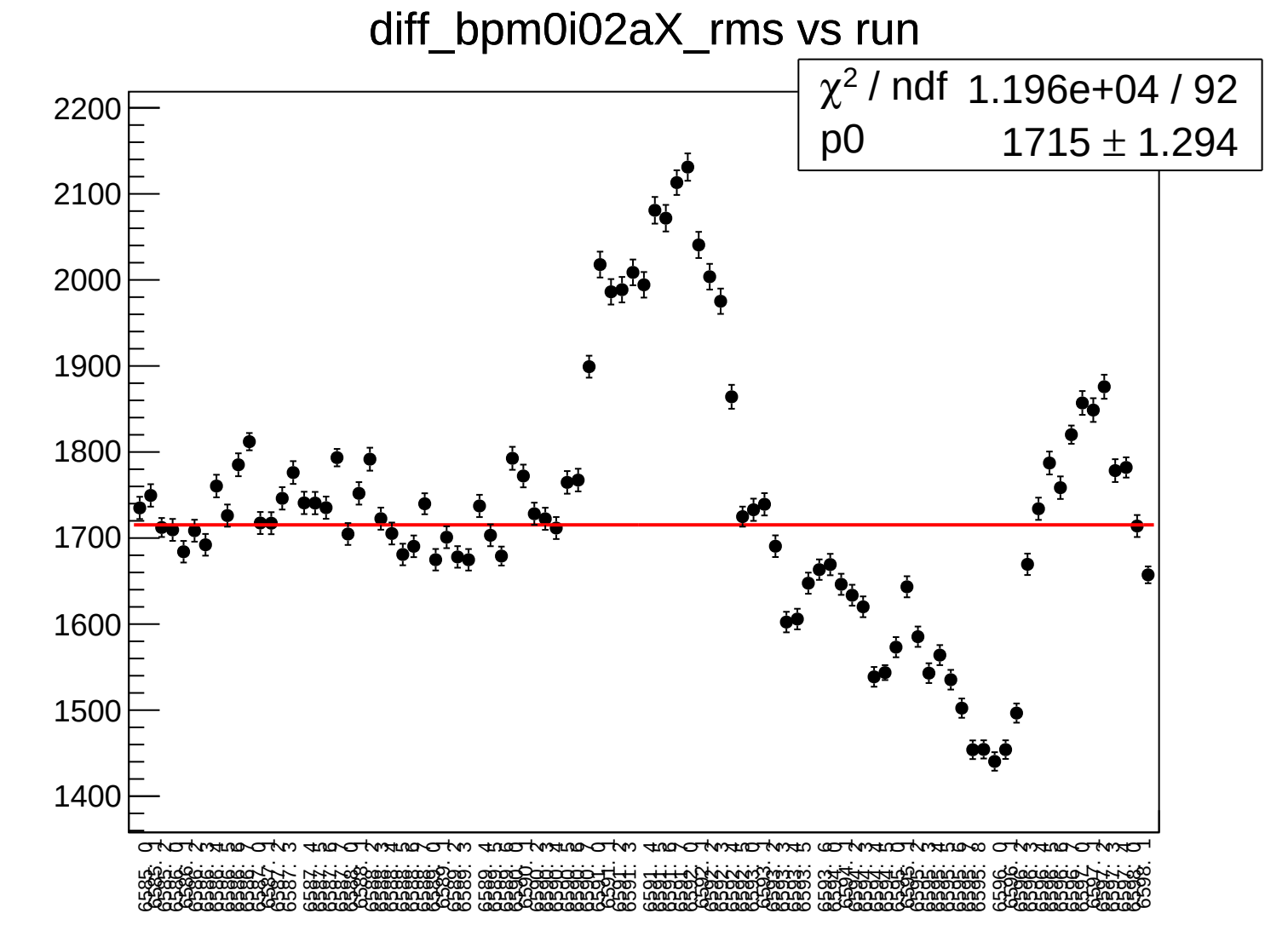

diff_bpm0i02Y_mean vs run
χ^2 / ndf 118.5 / 92
p0 3.036 ± 1.458
pull
Entries 93
Mean −596.3
Std Dev 0

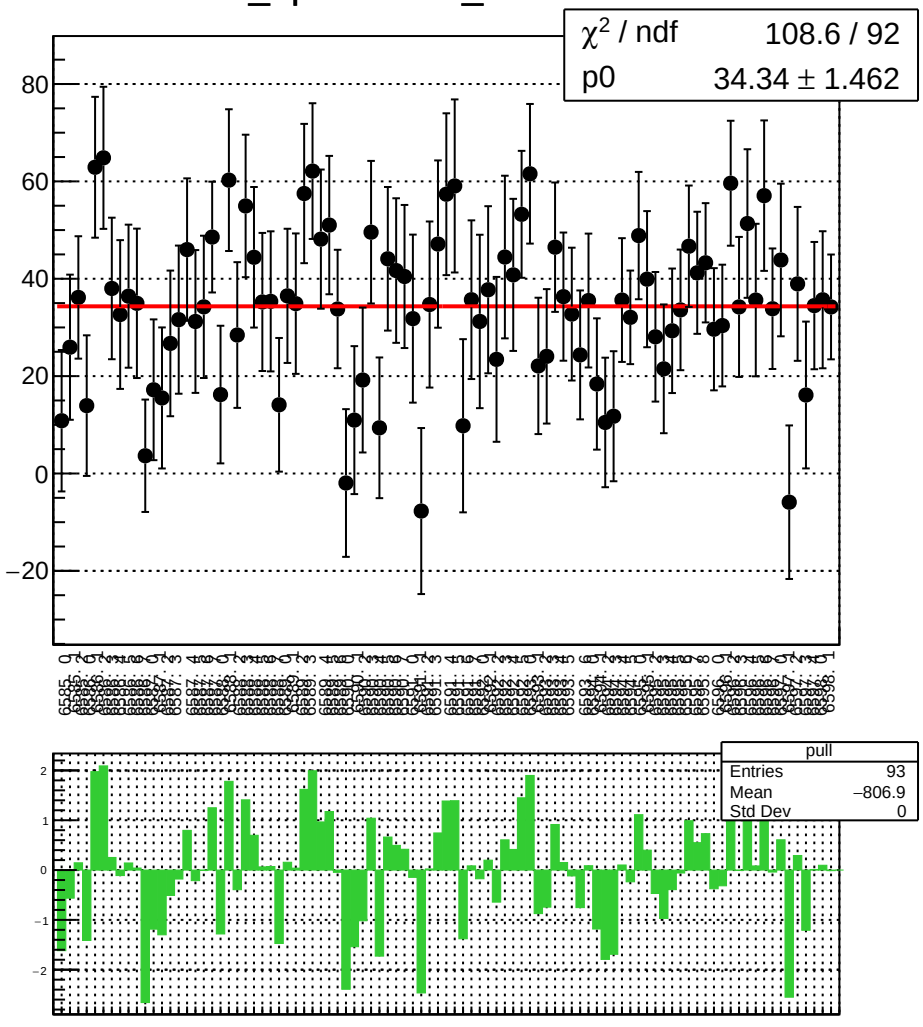

pull1D
Entries 93
Mean −0.00684
Std Dev 1.129

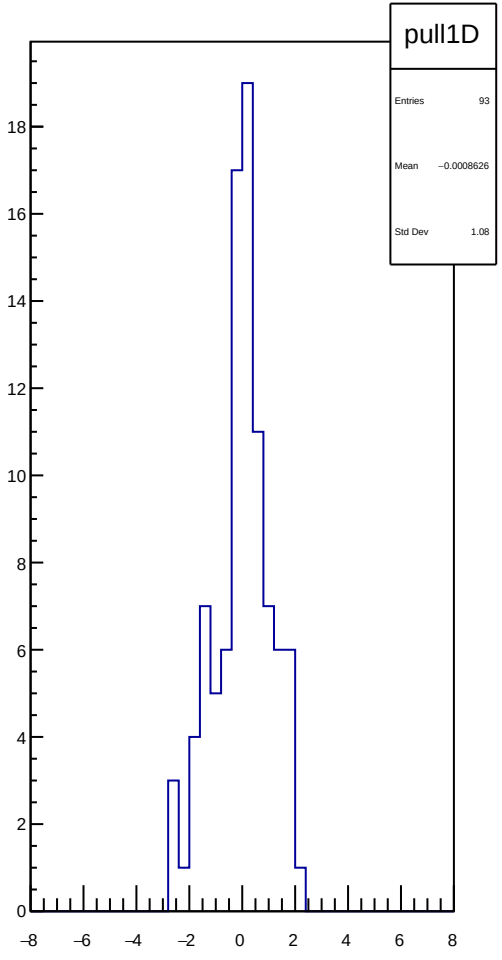

diff_bpm0i02Y_rms vs run
χ² / ndf 1.612e+04 / 92
p0 1366 ± 1.031
1700
1600
1500
1400
1300
1200

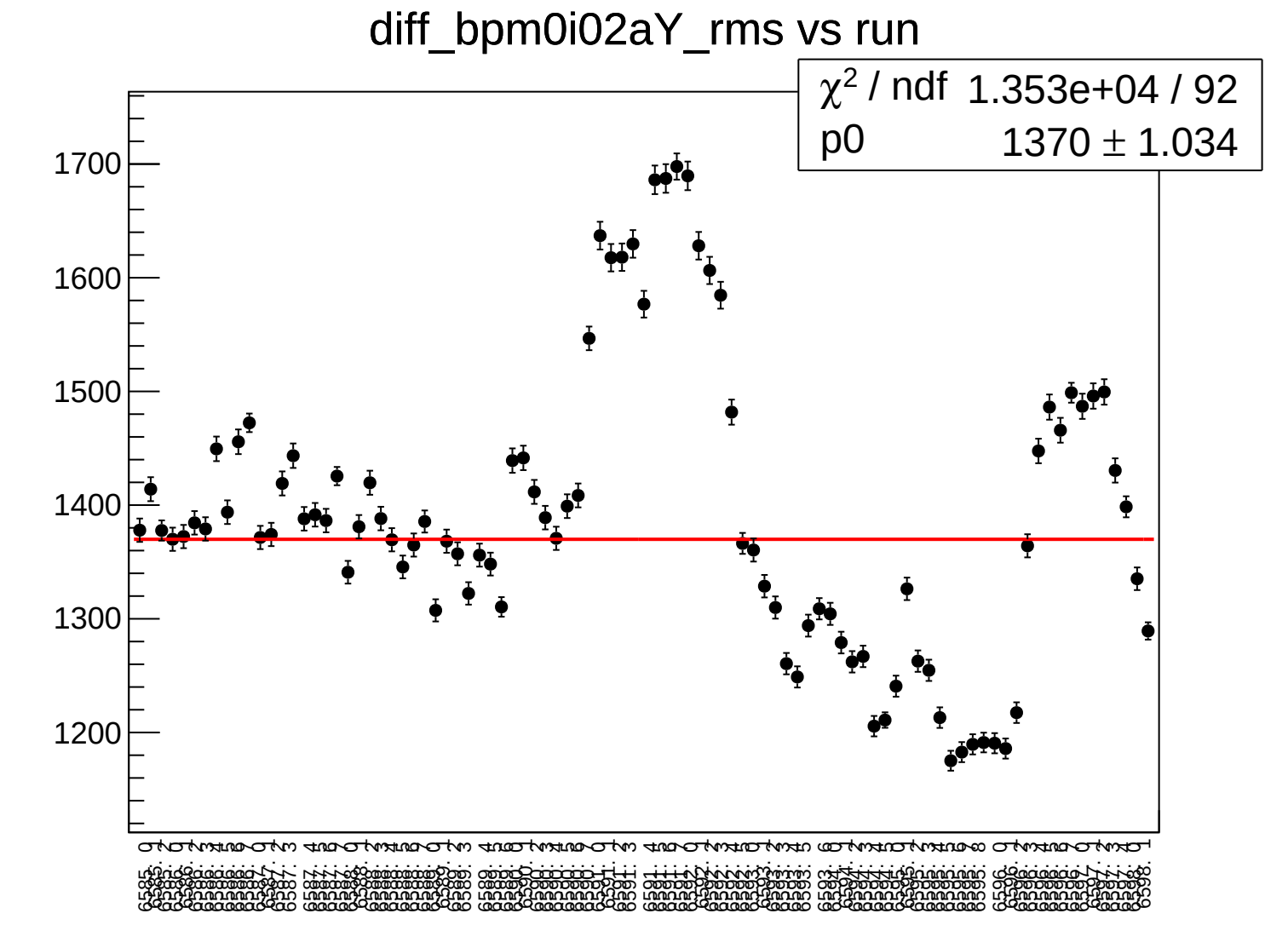

diff_bpm0i02aX_mean vs run
χ² / ndf 141.1 / 92
p0 −97.06 ± 1.829
pull
Entries 93
Mean 2594
Std Dev 0

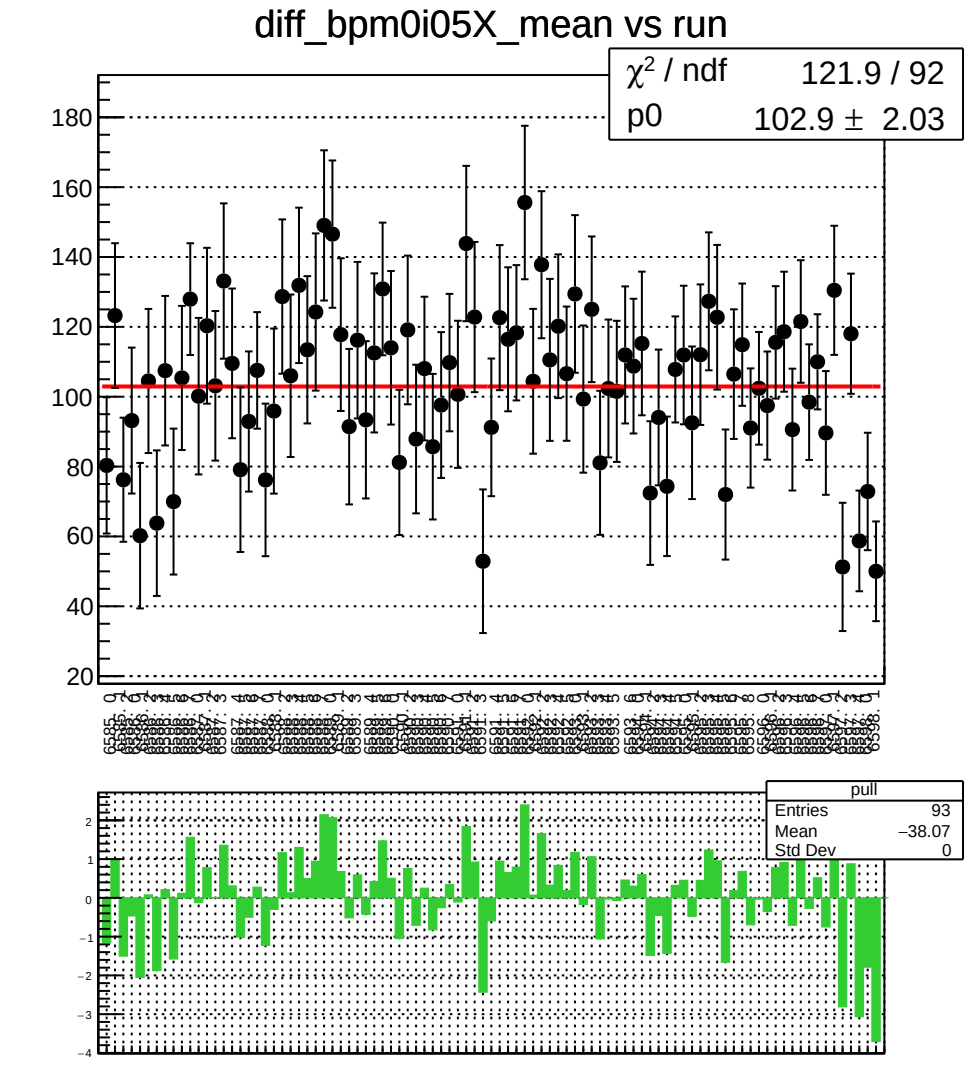

pull1D
Entries 93
Mean −0.003011
Std Dev 1.232

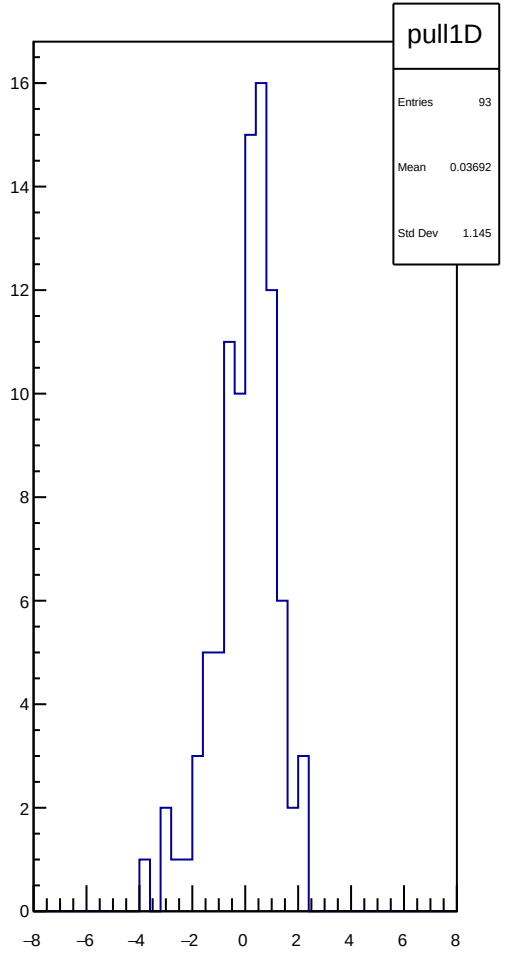

diff_bpm0i02aX_rms vs run
χ² / ndf 1.196e+04 / 92
p0 1715 ± 1.294
2200
2100
2000
1900
1800
1700
1600
1500
1400

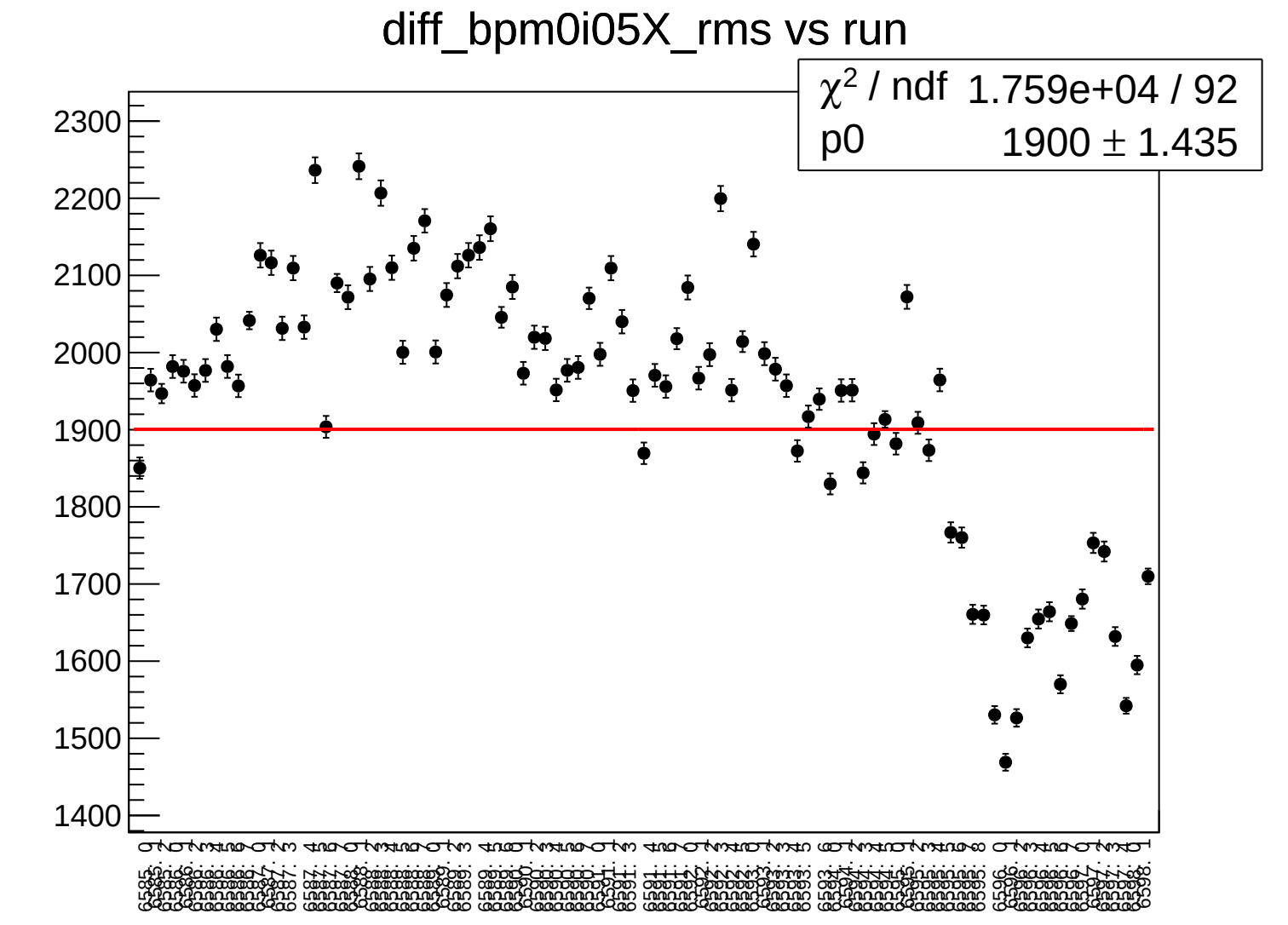

diff_bpm0i02aY_mean vs run
χ^2 / ndf 108.6 / 92
p0 34.34 ± 1.462
pull
Entries 93
Mean −806.9
Std Dev 0

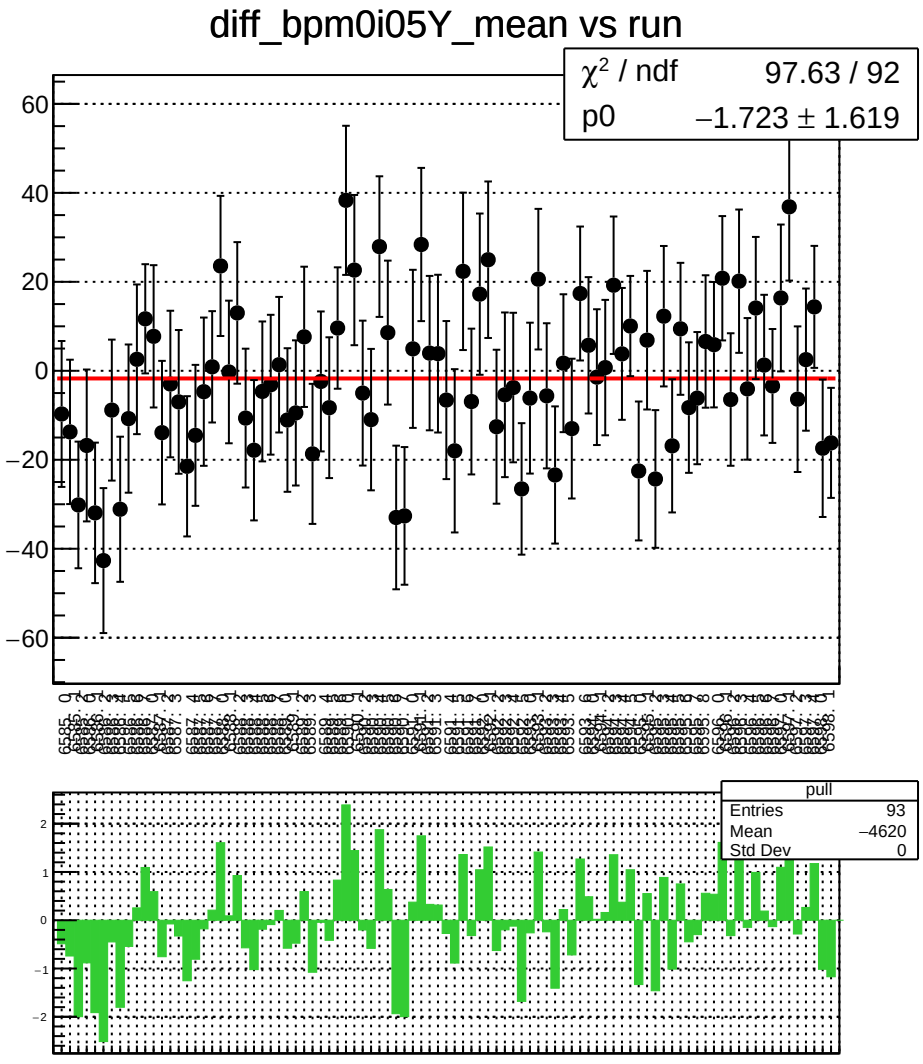

pull1D
Entries 93
Mean −0.0008626
Std Dev 1.08

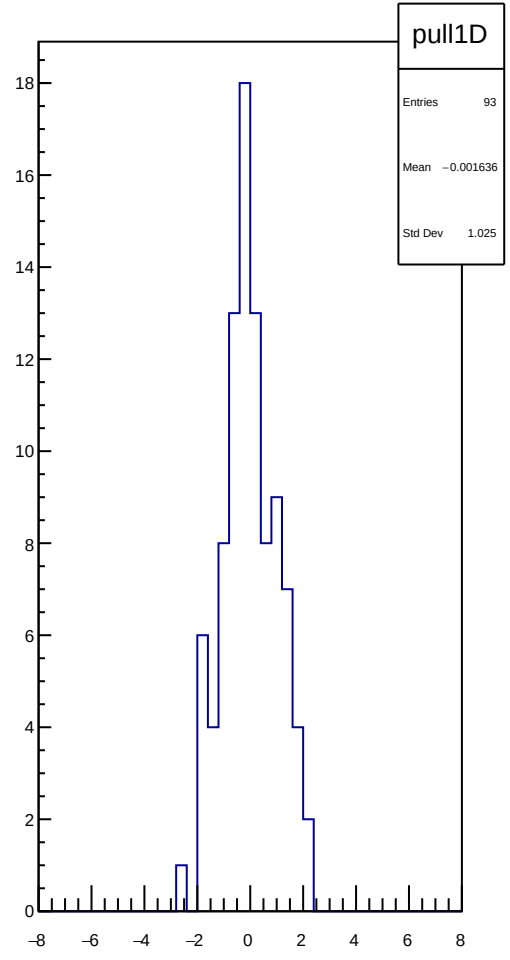

diff_bpm0i02aY_rms vs run
χ² / ndf 1.353e+04 / 92
p0 1370 ± 1.034
1700
1600
1500
1400
1300
1200

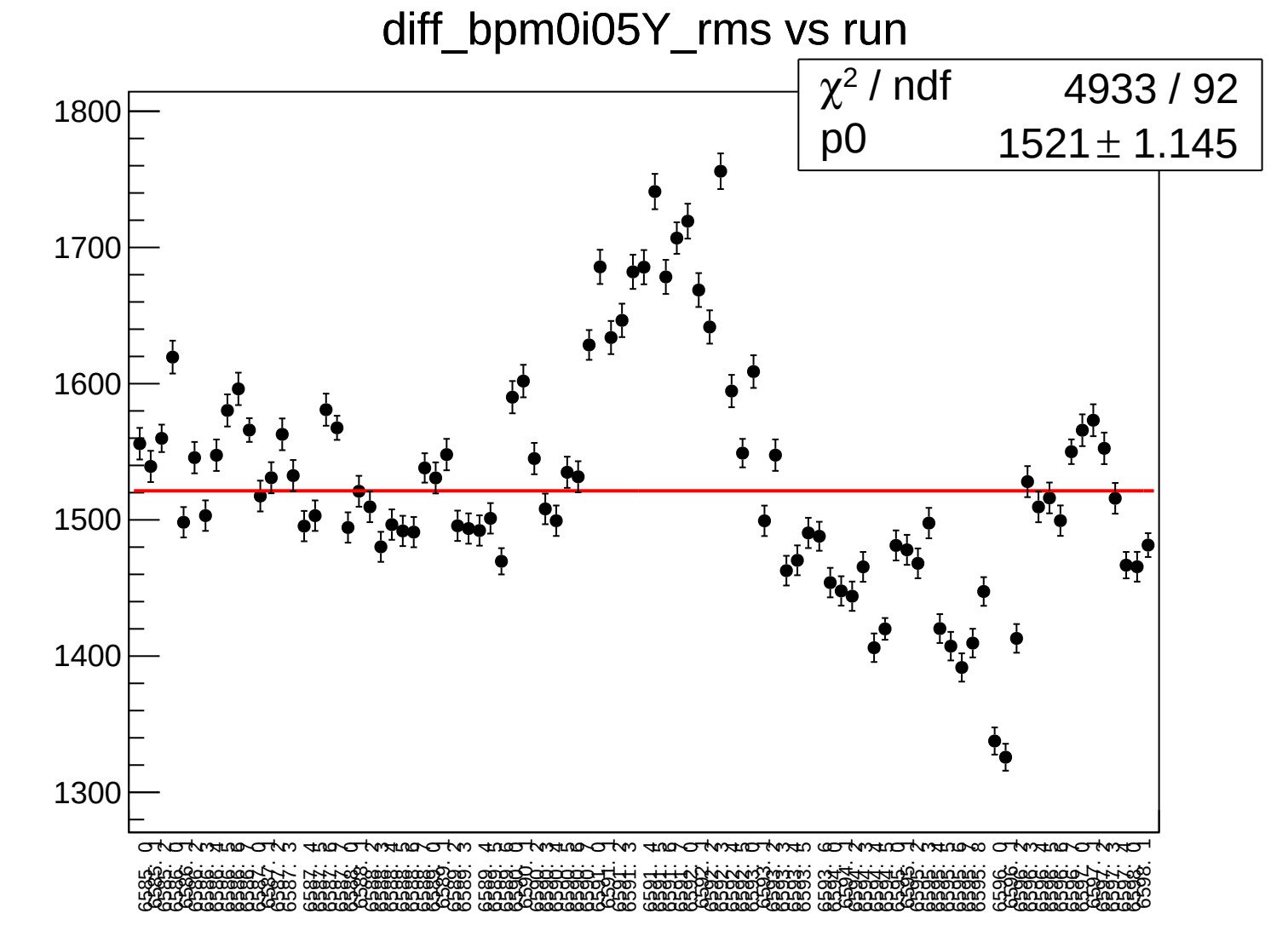

diff_bpm0i05X_mean vs run
χ² / ndf 121.9 / 92
p0 102.9 ± 2.03
pull
Entries 93
Mean −38.07
Std Dev 0

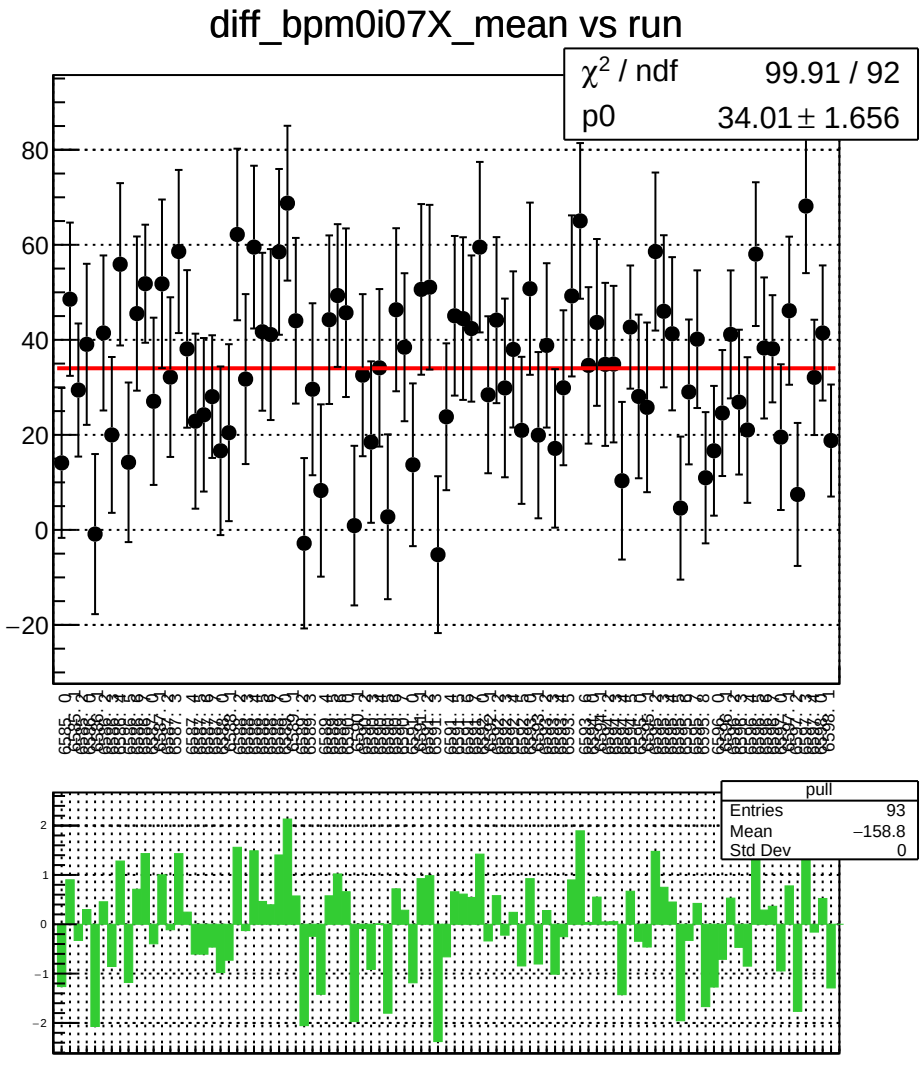

pull1D
Entries 93
Mean 0.03692
Std Dev 1.145

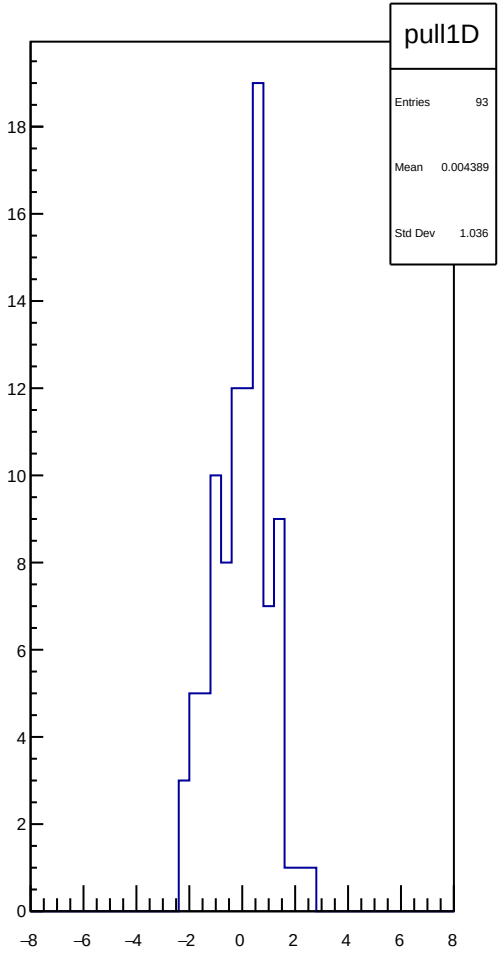

diff_bpm0i05X_rms vs run
χ² / ndf 1.759e+04 / 92
p0 1900 ± 1.435
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

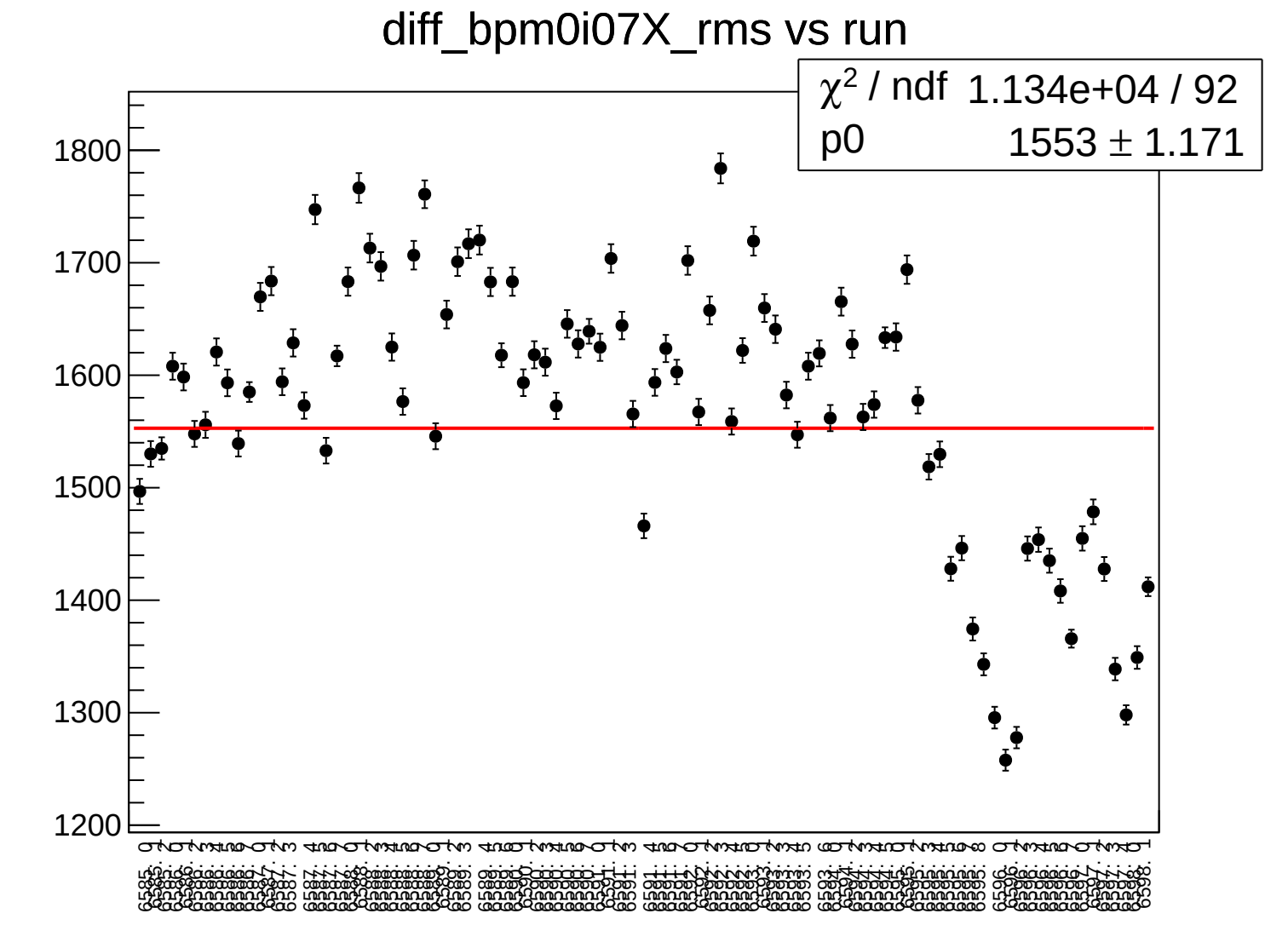

diff_bpm0i05Y_mean vs run
χ² / ndf 97.63 / 92
p0 −1.723 ± 1.619
pull
Entries 93
Mean −4620
Std Dev 0

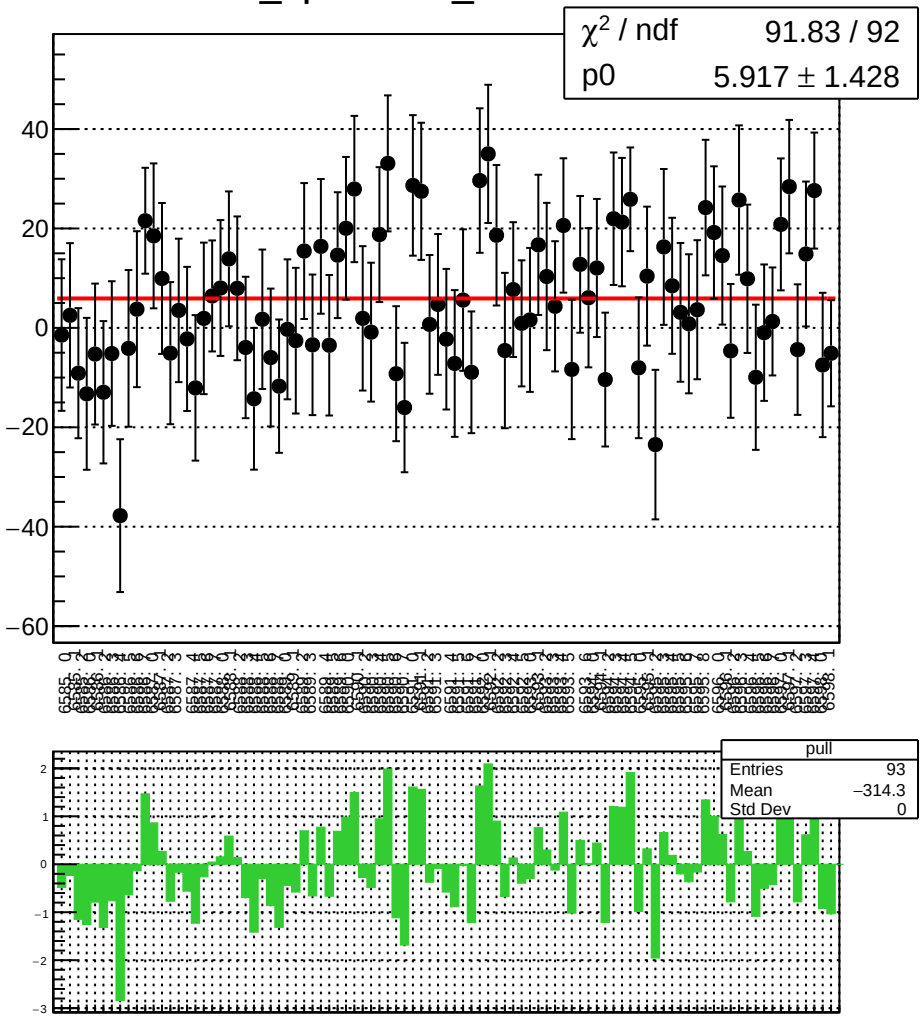

pull1D
Entries 93
Mean −0.001636
Std Dev 1.025

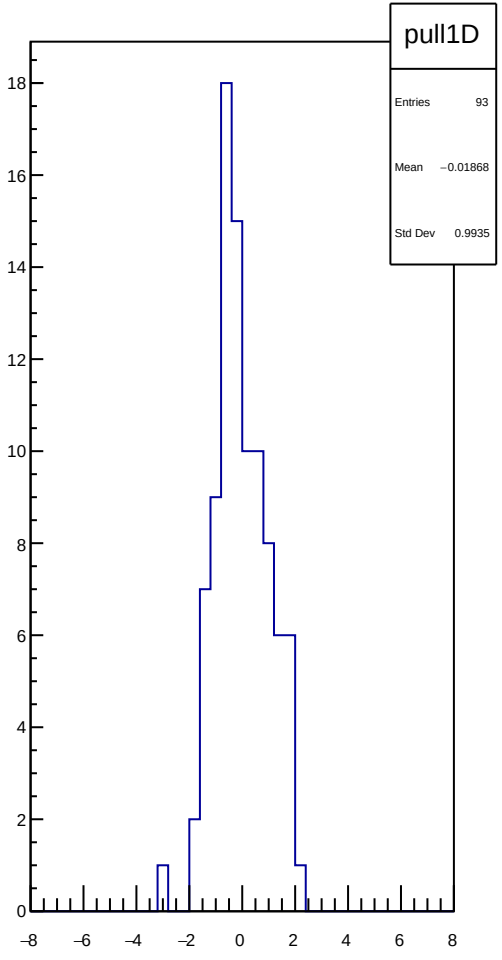

diff_bpm0i05Y_rms vs run
χ² / ndf 4933 / 92
p0 1521 ± 1.145
1800
1700
1600
1500
1400
1300

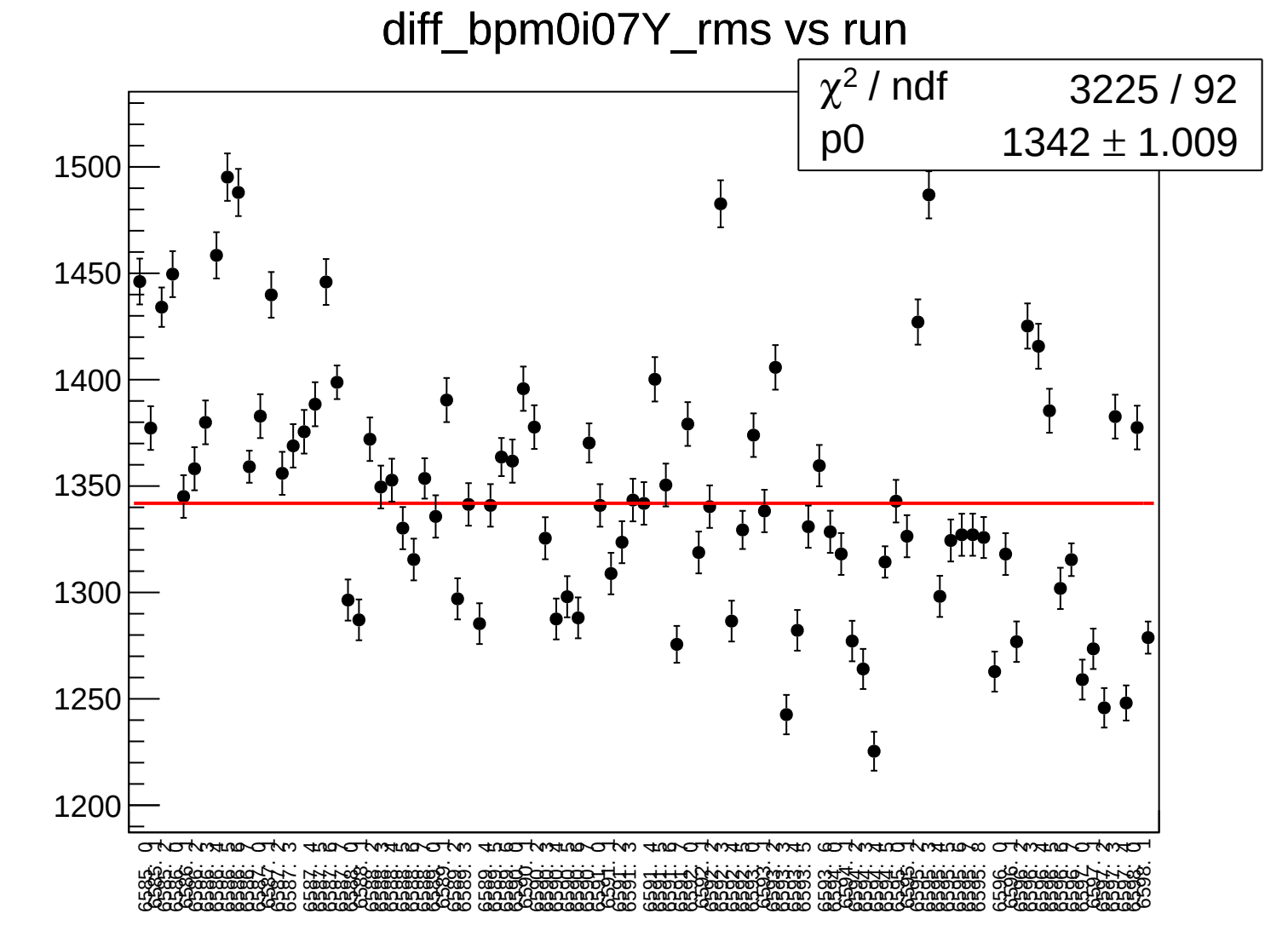

diff_bpm0i07X_mean vs run
χ² / ndf 99.91 / 92
p0 34.01 ± 1.656
pull
Entries 93
Mean −158.8
Std Dev 0

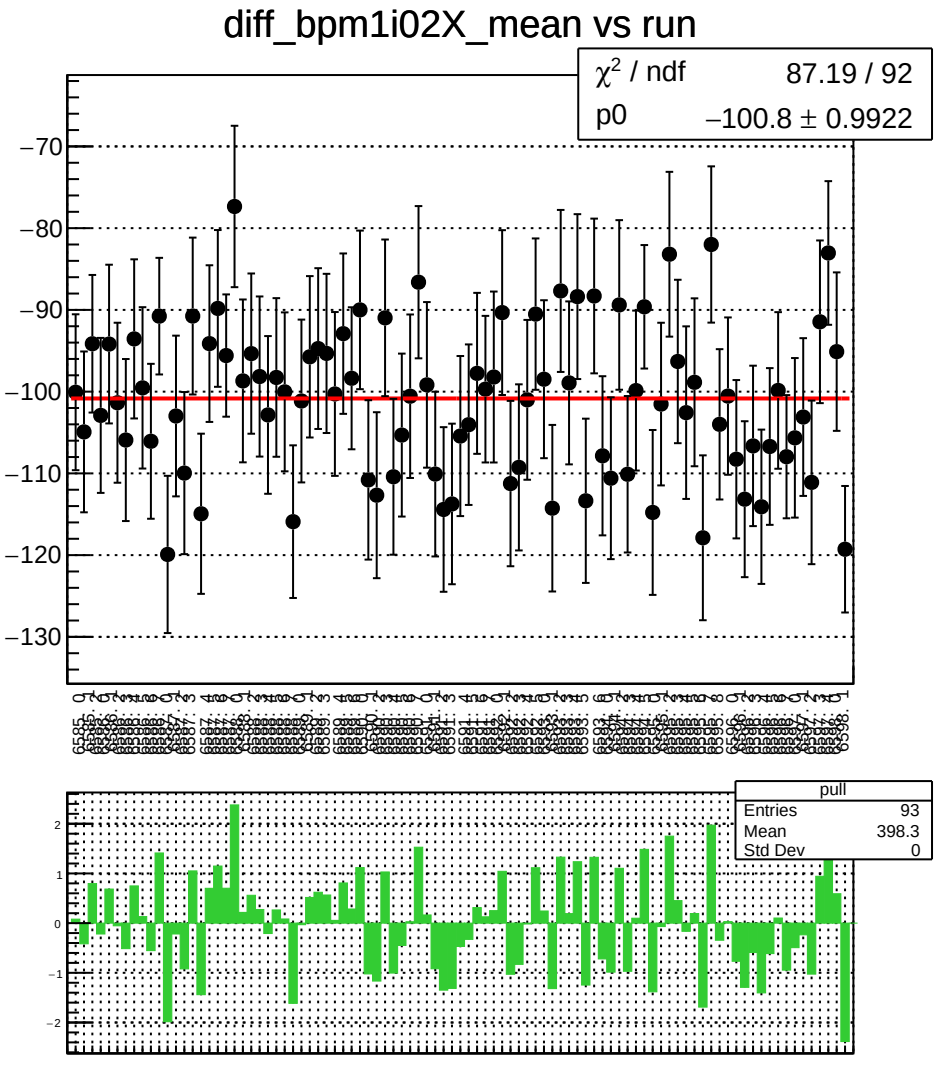

pull1D
Entries 93
Mean 0.004389
Std Dev 1.036

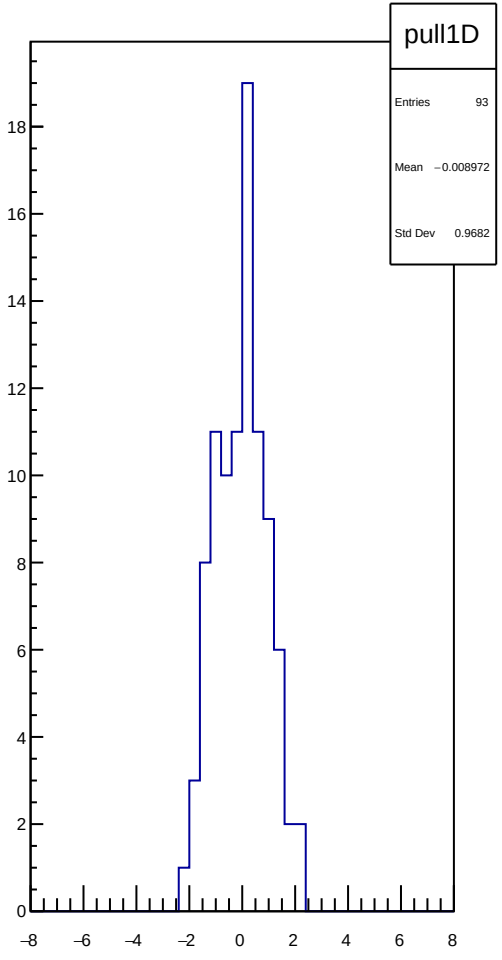

diff_bpm0i07X_rms vs run
χ² / ndf 1.134e+04 / 92
p0 1553 ± 1.171
1800
1700
1600
1500
1400
1300
1200

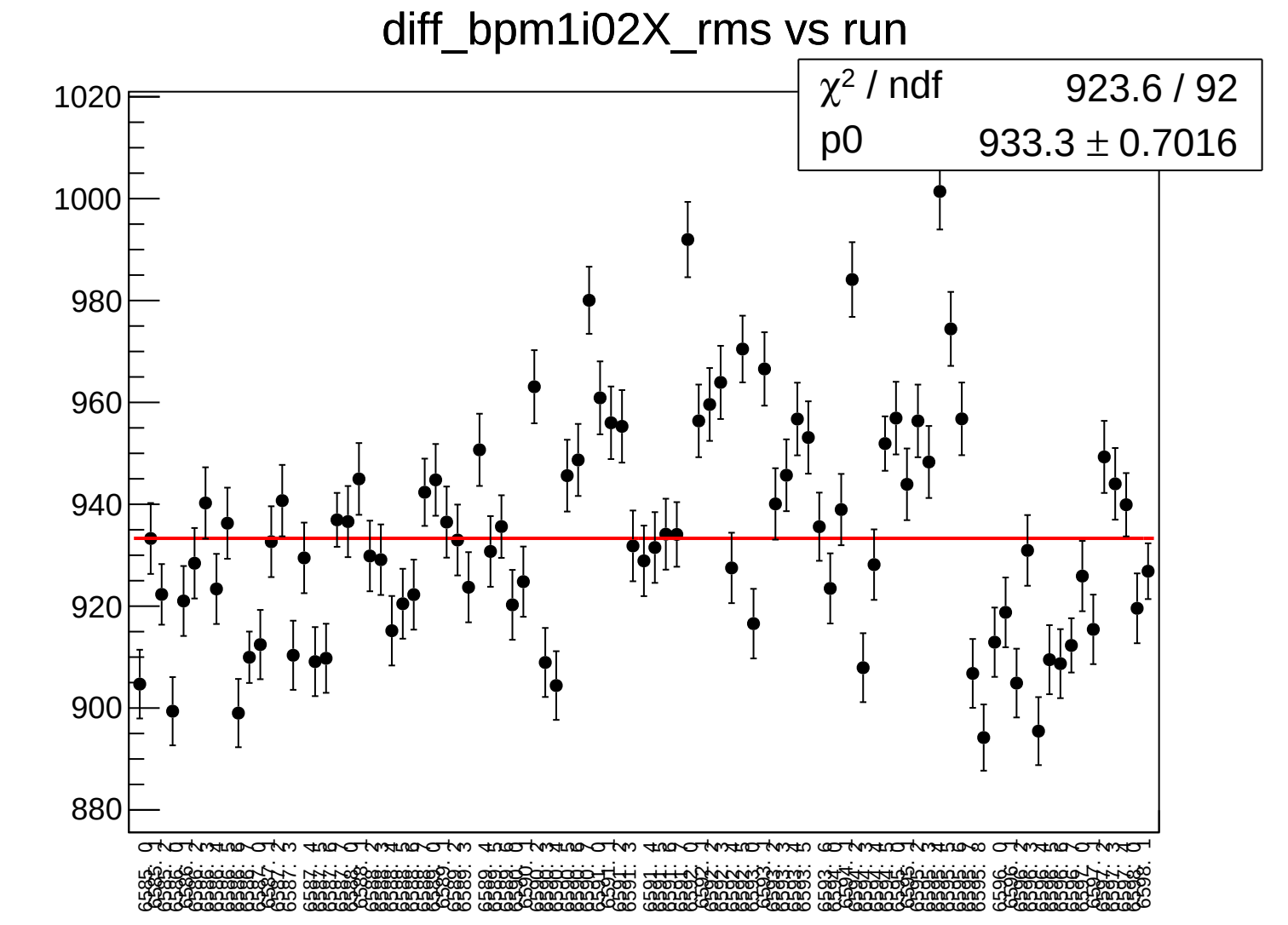

diff_bpm0i07Y_mean vs run
χ² / ndf 91.83 / 92
p0 5.917 ± 1.428
pull
Entries 93
Mean −314.3
Std Dev 0

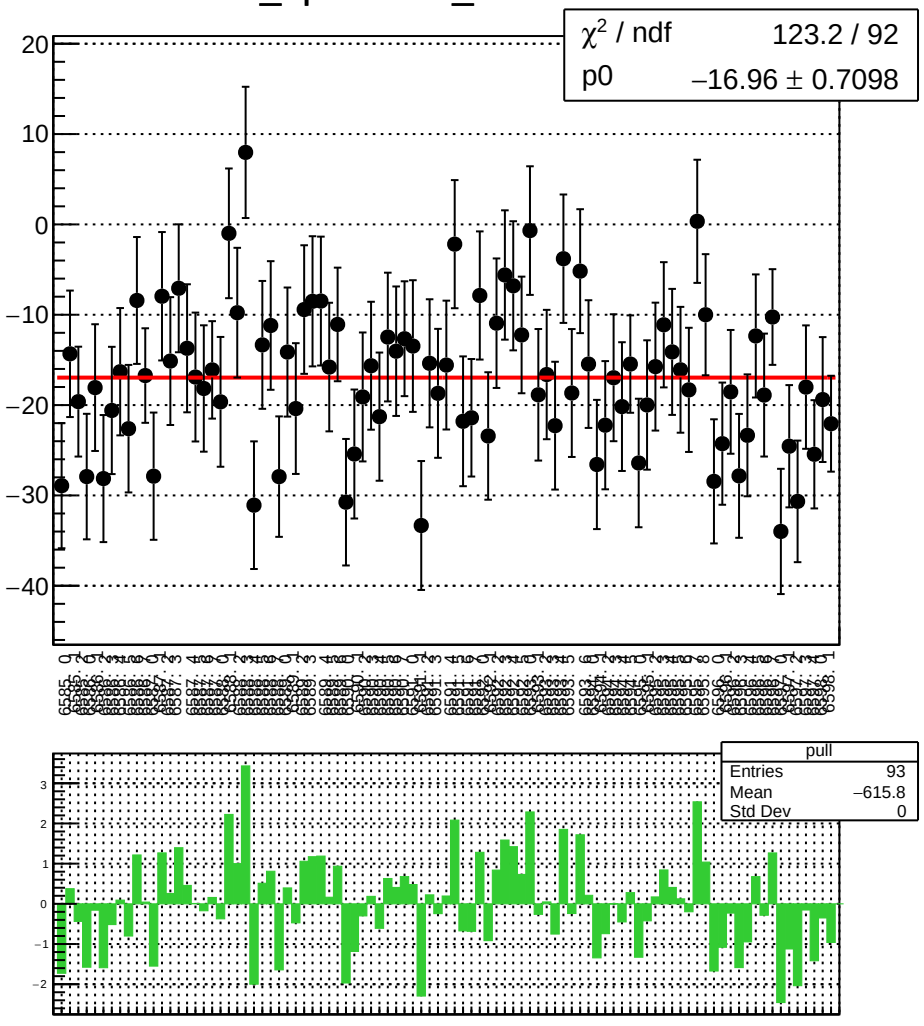

pull1D
Entries 93
Mean −0.01868
Std Dev 0.9935

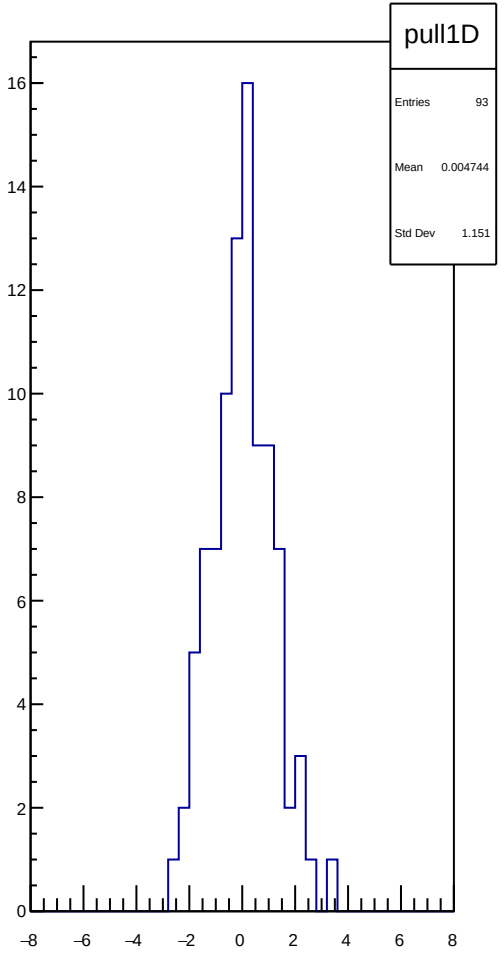

diff_bpm0i07Y_rms vs run
χ² / ndf 3225 / 92
p0 1342 ± 1.009
1500
1450
1400
1350
1300
1250
1200

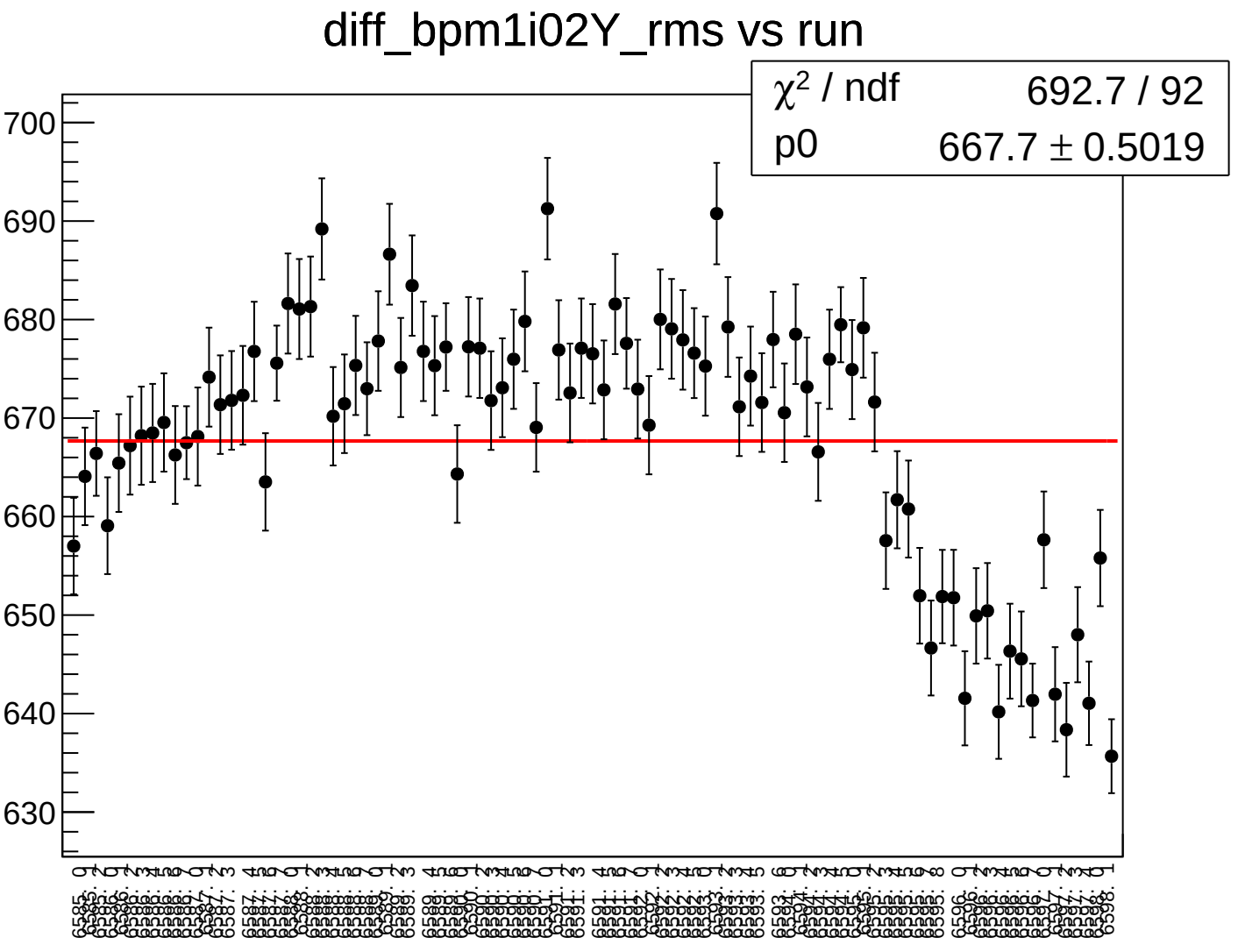

diff_bpm1i02X_mean vs run
χ² / ndf 87.19 / 92
p0 −100.8 ± 0.9922
pull
Entries 93
Mean 398.3
Std Dev 0

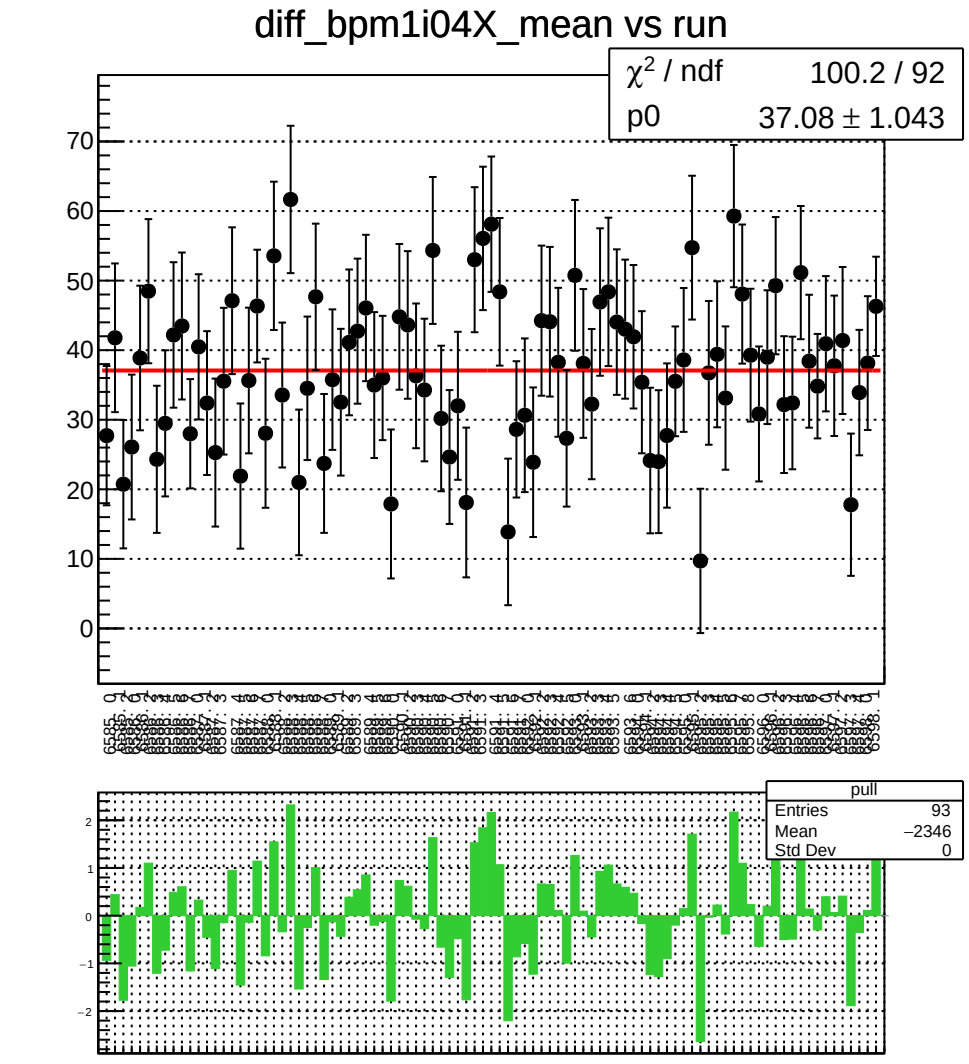

pull1D
Entries 93
Mean −0.008972
Std Dev 0.9682

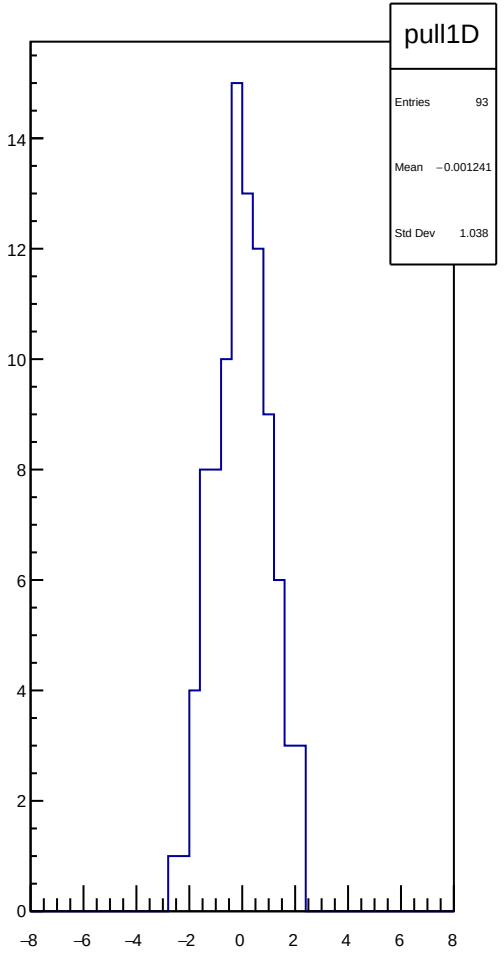

diff_bpm1i02X_rms vs run
χ² / ndf 923.6 / 92
p0 933.3 ± 0.7016
1020
1000
980
960
940
920
900
880

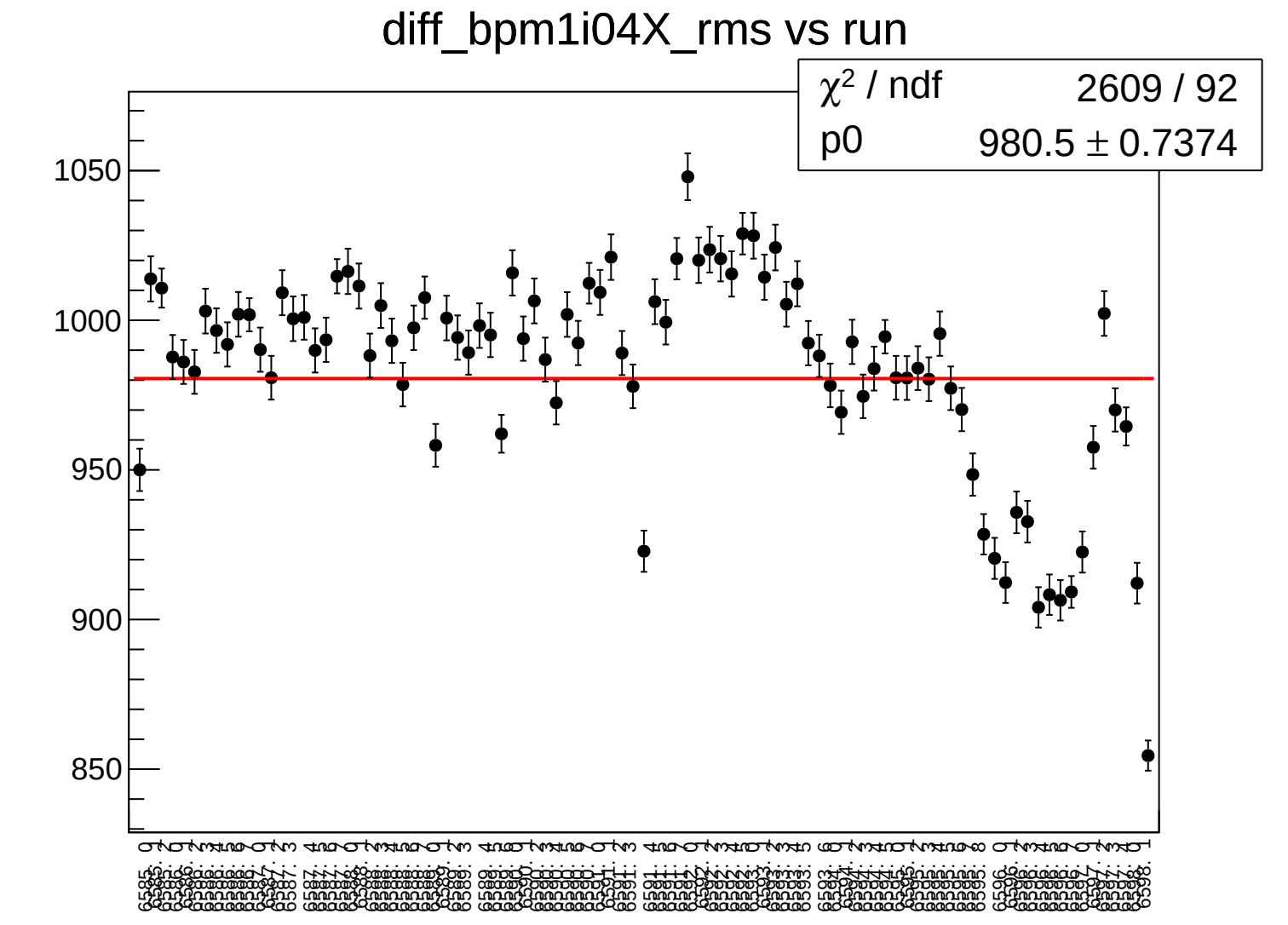

diff_bpm1i02Y_mean vs run
χ² / ndf 123.2 / 92
p0 −16.96 ± 0.7098
pull
Entries 93
Mean −615.8
Std Dev 0

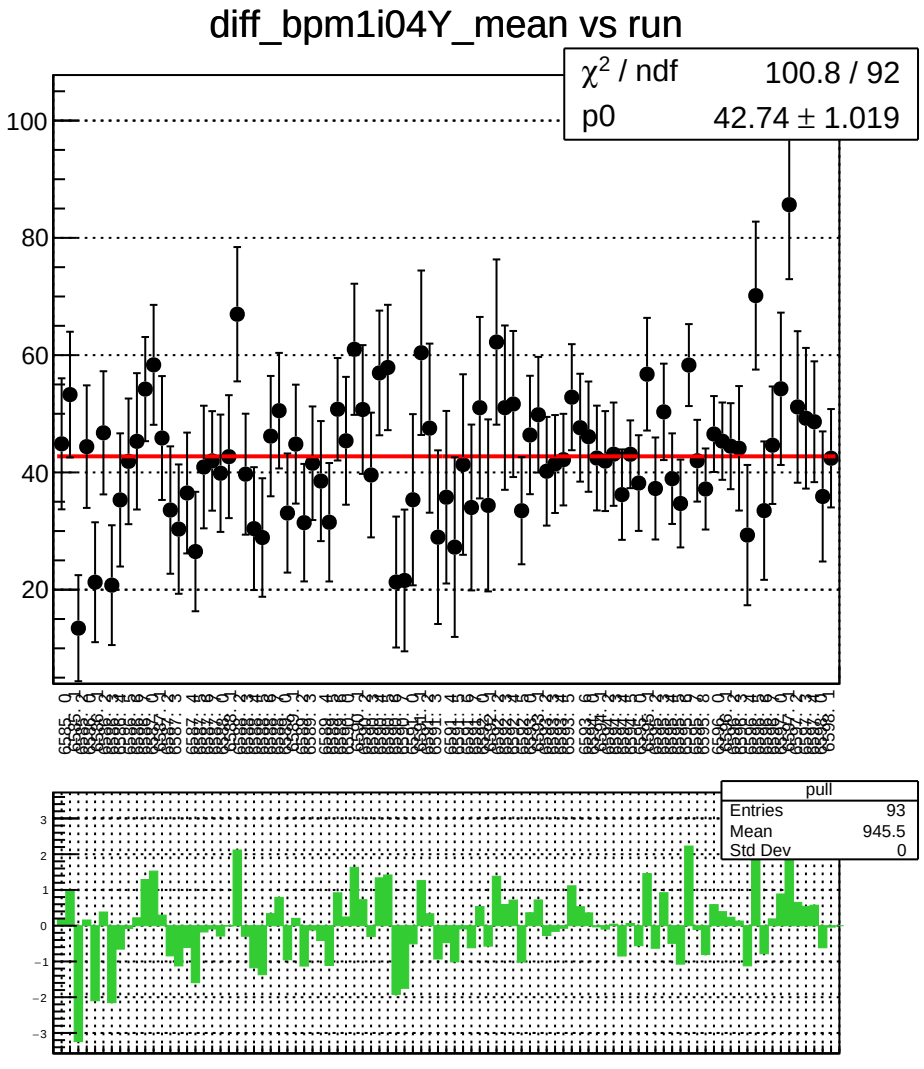

pull1D
Entries 93
Mean 0.004744
Std Dev 1.151

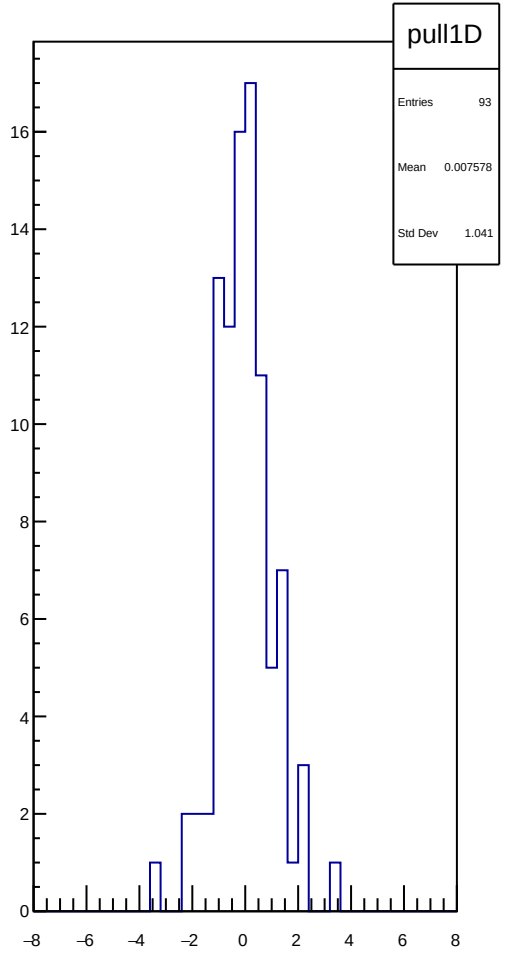

diff_bpm1i02Y_rms vs run
χ² / ndf 692.7 / 92
p0 667.7 ± 0.5019
700
690
680
670
660
650
640
630

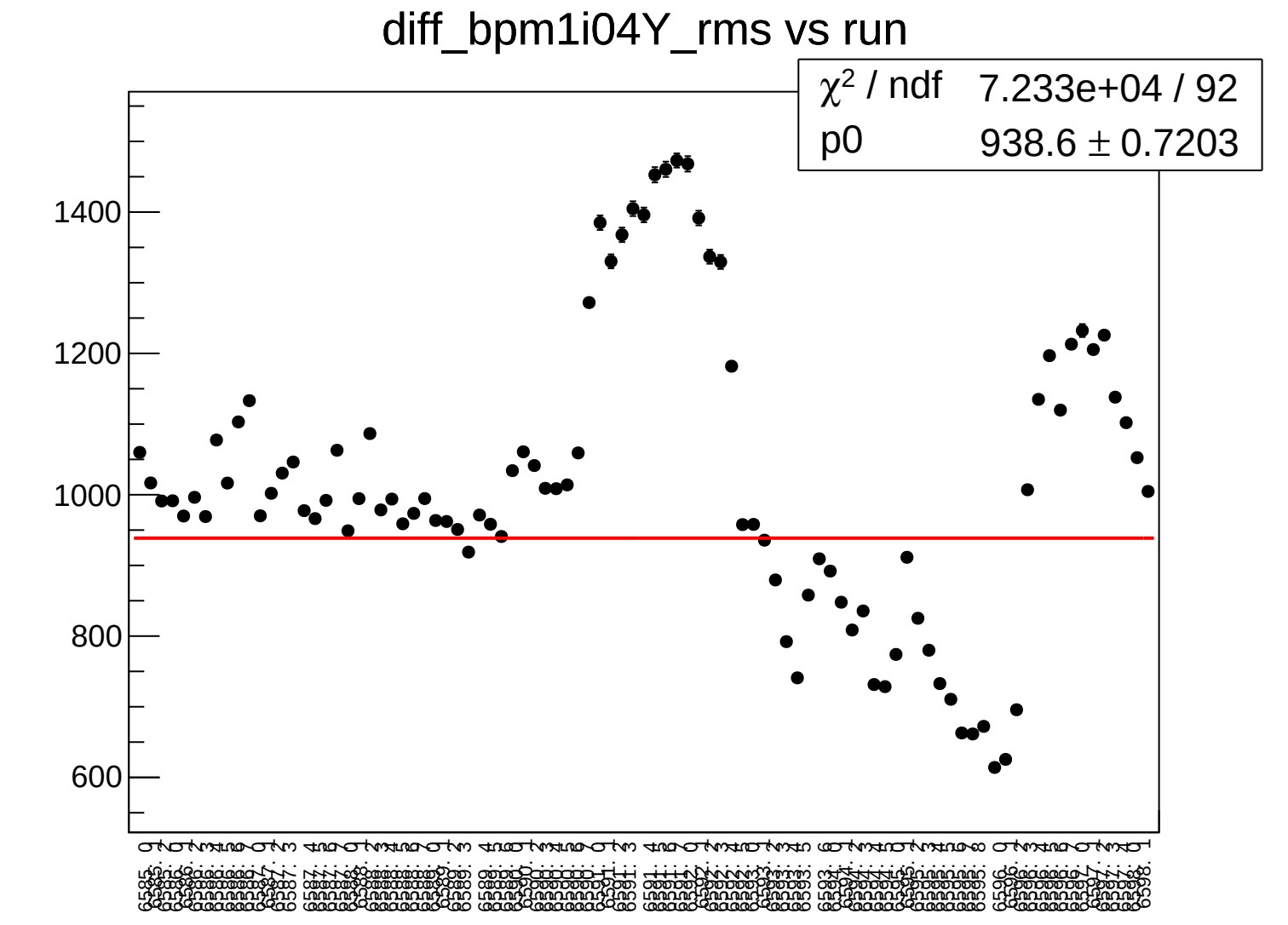

diff_bpm1i04X_mean vs run
χ^2 / ndf 100.2 / 92
p0 37.08 ± 1.043
pull
Entries 93
Mean −2346
Std Dev 0

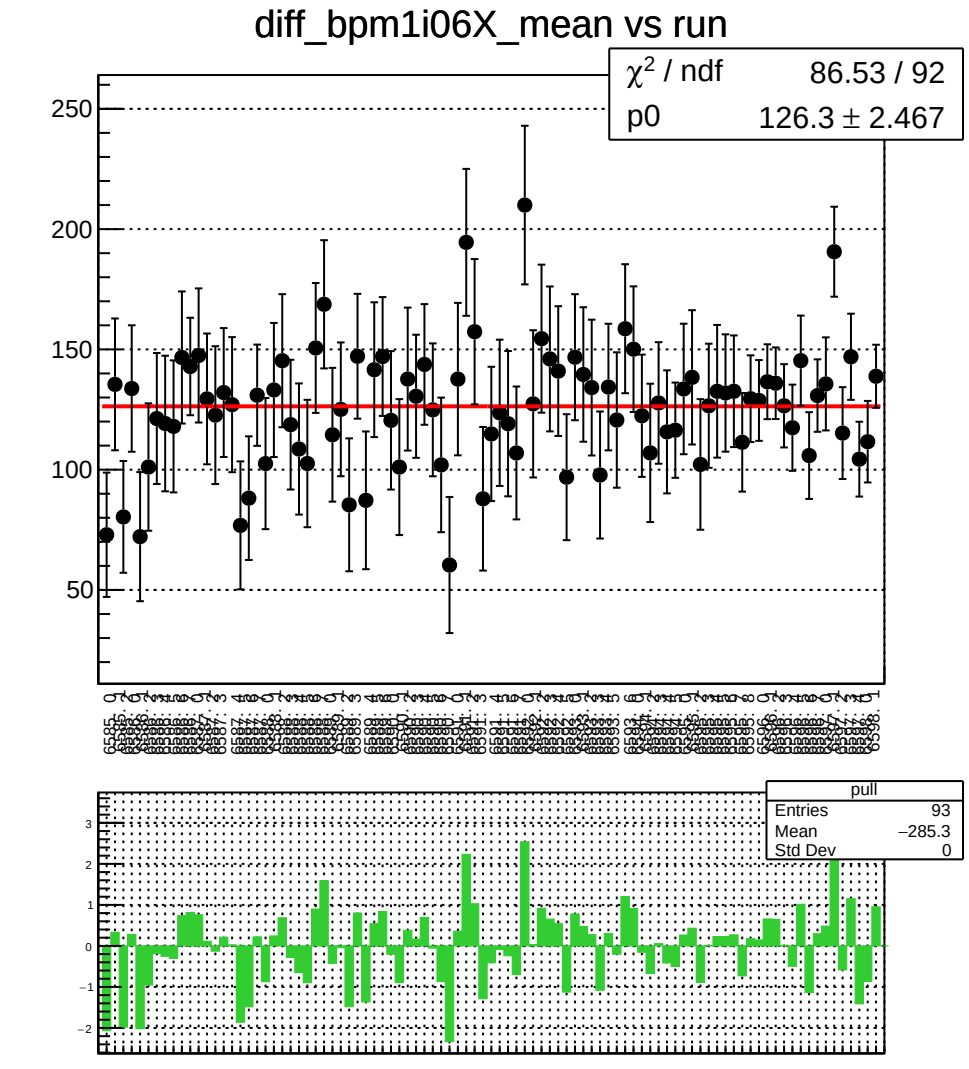

pull1D
Entries 93
Mean −0.001241
Std Dev 1.038

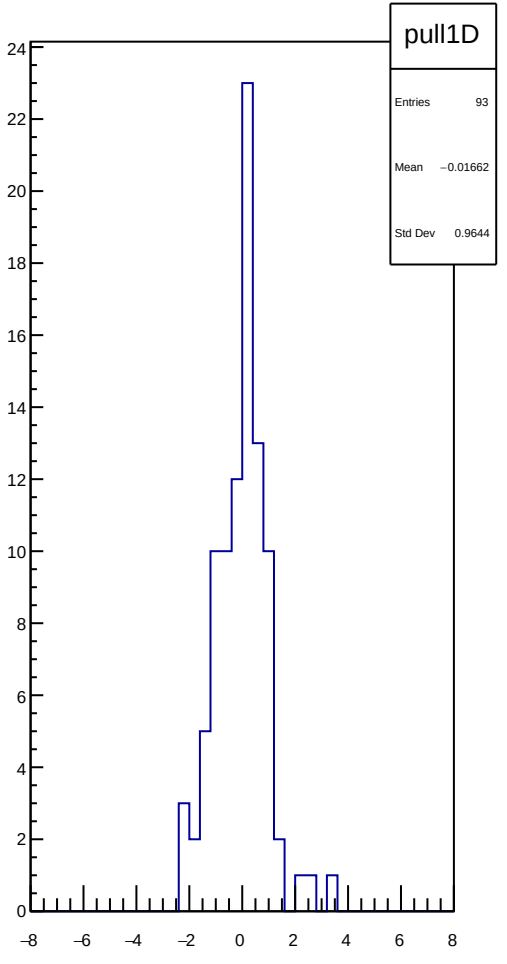

diff_bpm1i04X_rms vs run
χ² / ndf 2609 / 92
p0 980.5 ± 0.7374
1050
1000
950
900
850

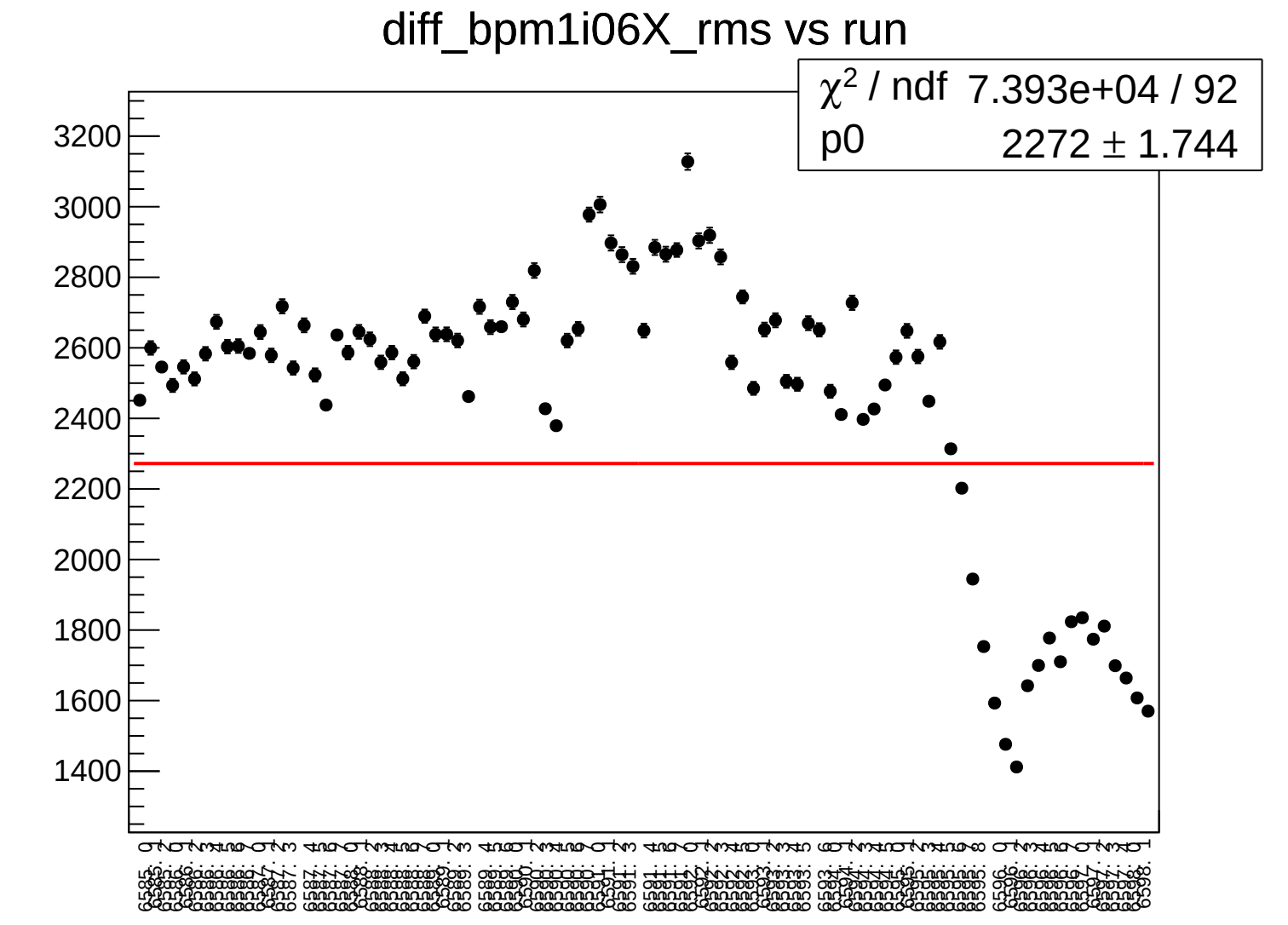

diff_bpm1i04Y_mean vs run
χ^2 / ndf 100.8 / 92
p0 42.74 ± 1.019
pull
Entries 93
Mean 945.5
Std Dev 0

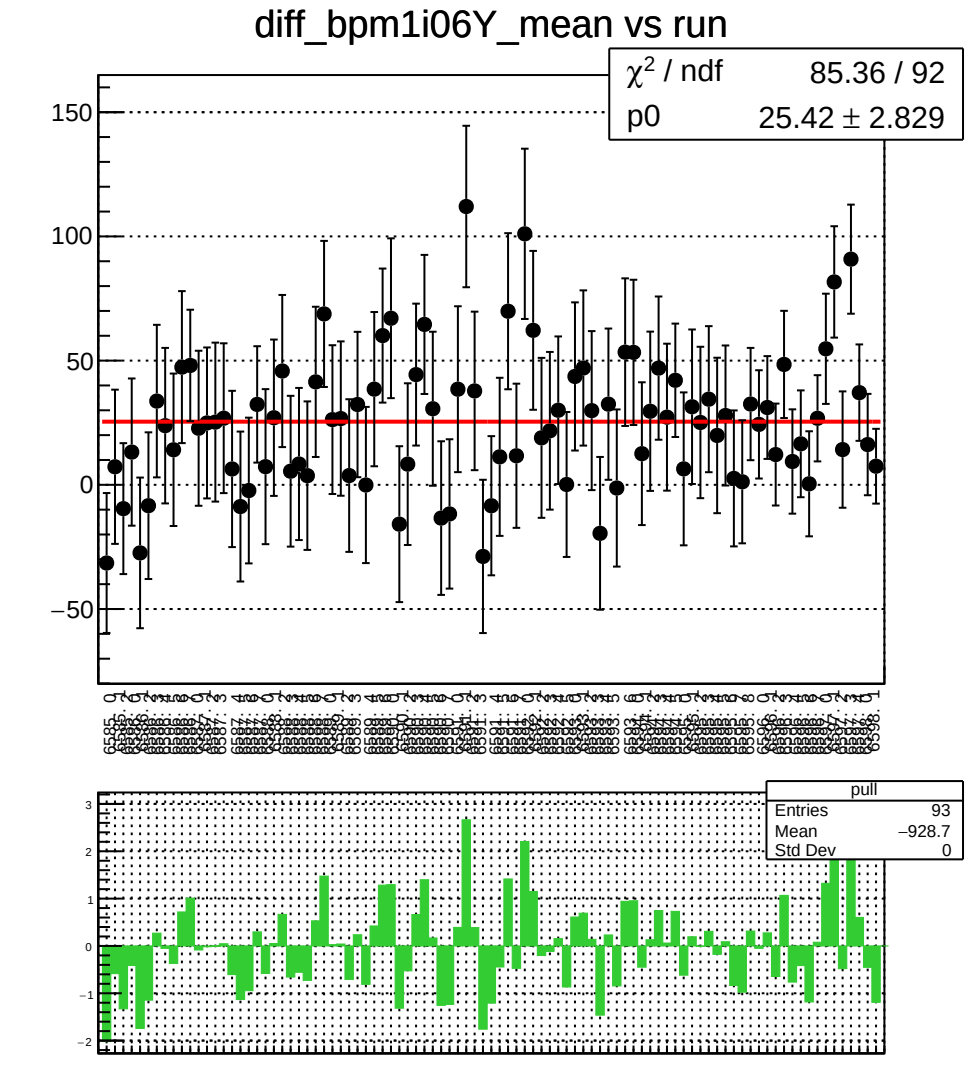

pull1D
Entries 93
Mean 0.007578
Std Dev 1.041

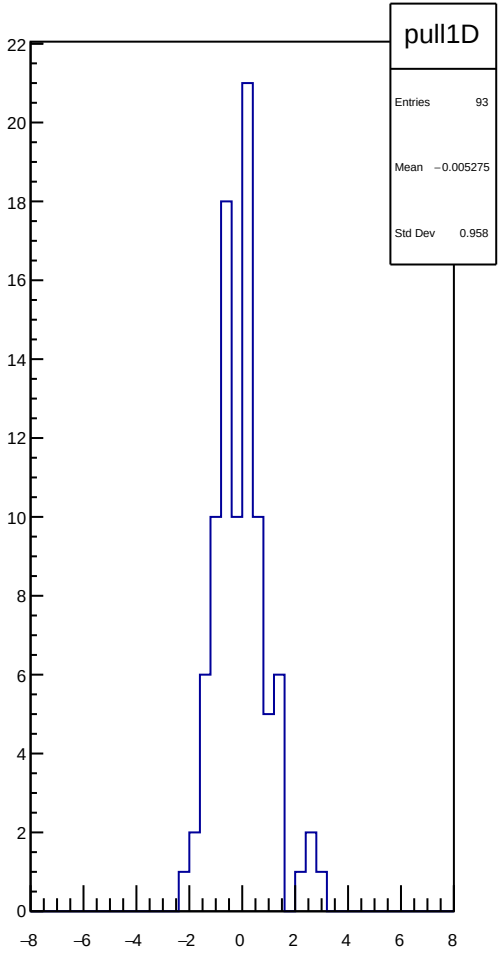

diff_bpm1i04Y_rms vs run
χ² / ndf 7.233e+04 / 92
p0 938.6 ± 0.7203
1400
1200
1000
800
600

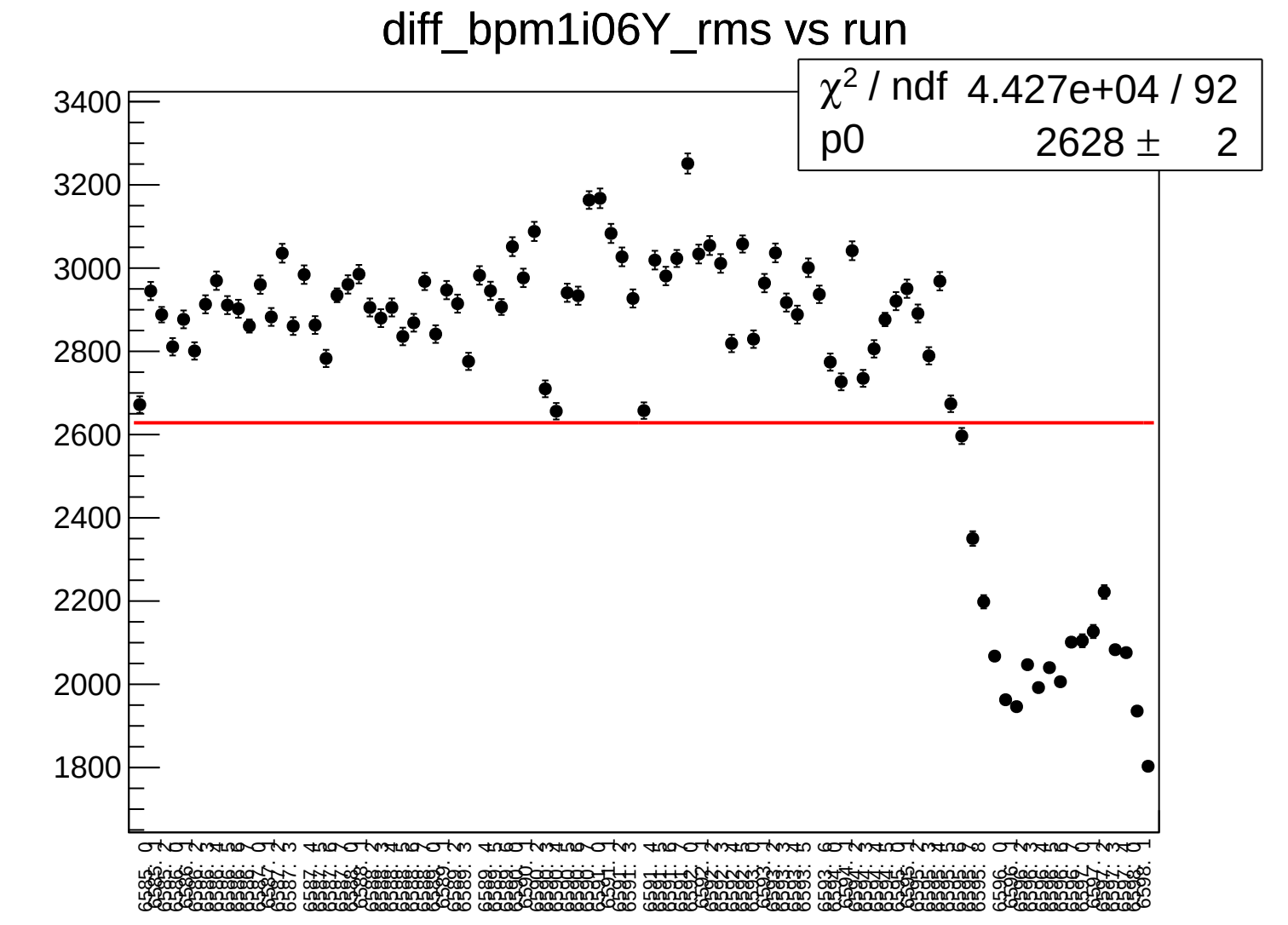

diff_bpm1i06X_mean vs run
χ^2 / ndf 86.53 / 92
p0 126.3 ± 2.467
250
200
150
100
50
pull
Entries 93
Mean −285.3
Std Dev 0
3
2
1
0
−1
−2

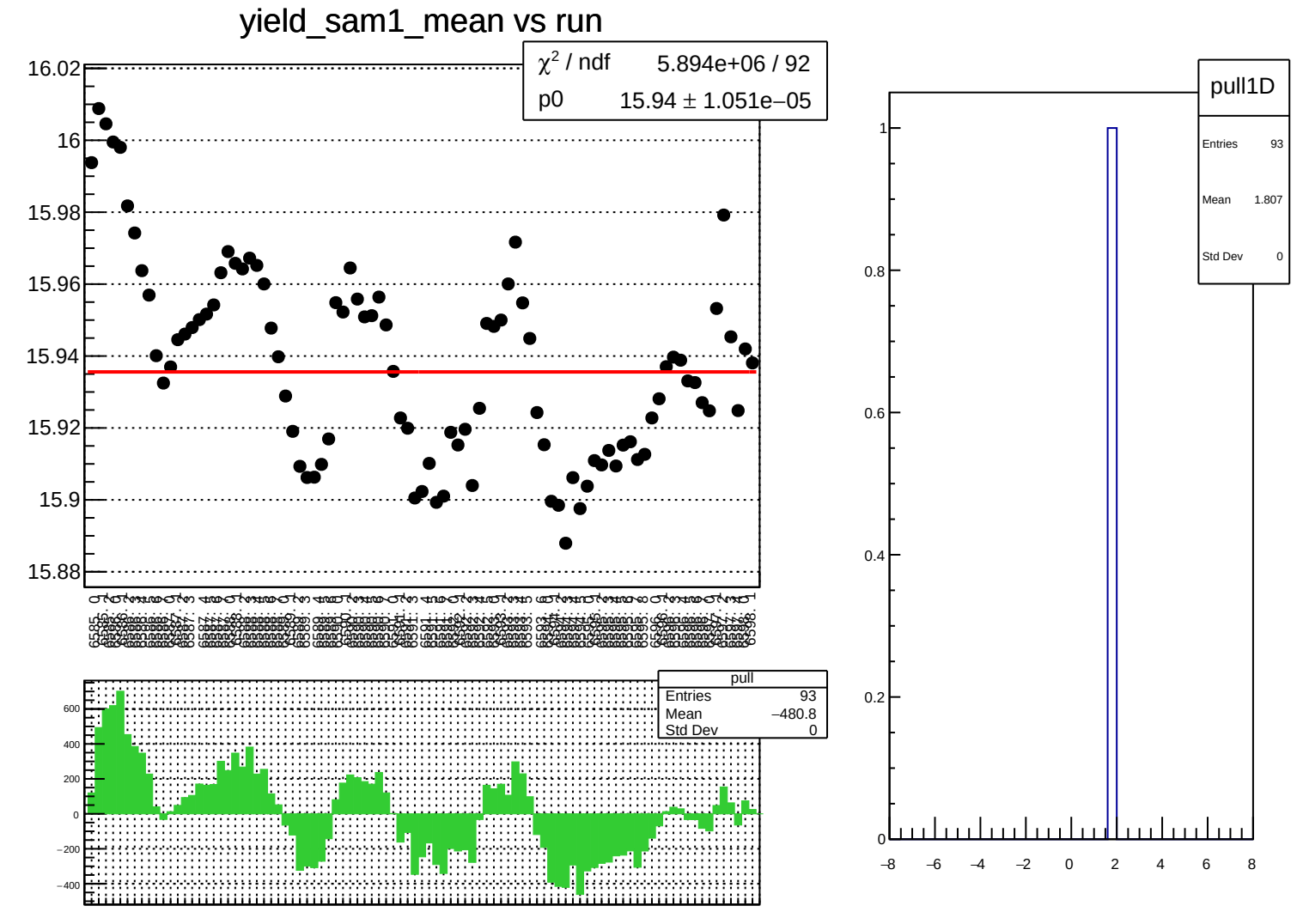

pull1D
Entries 93
Mean −0.01662
Std Dev 0.9644
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

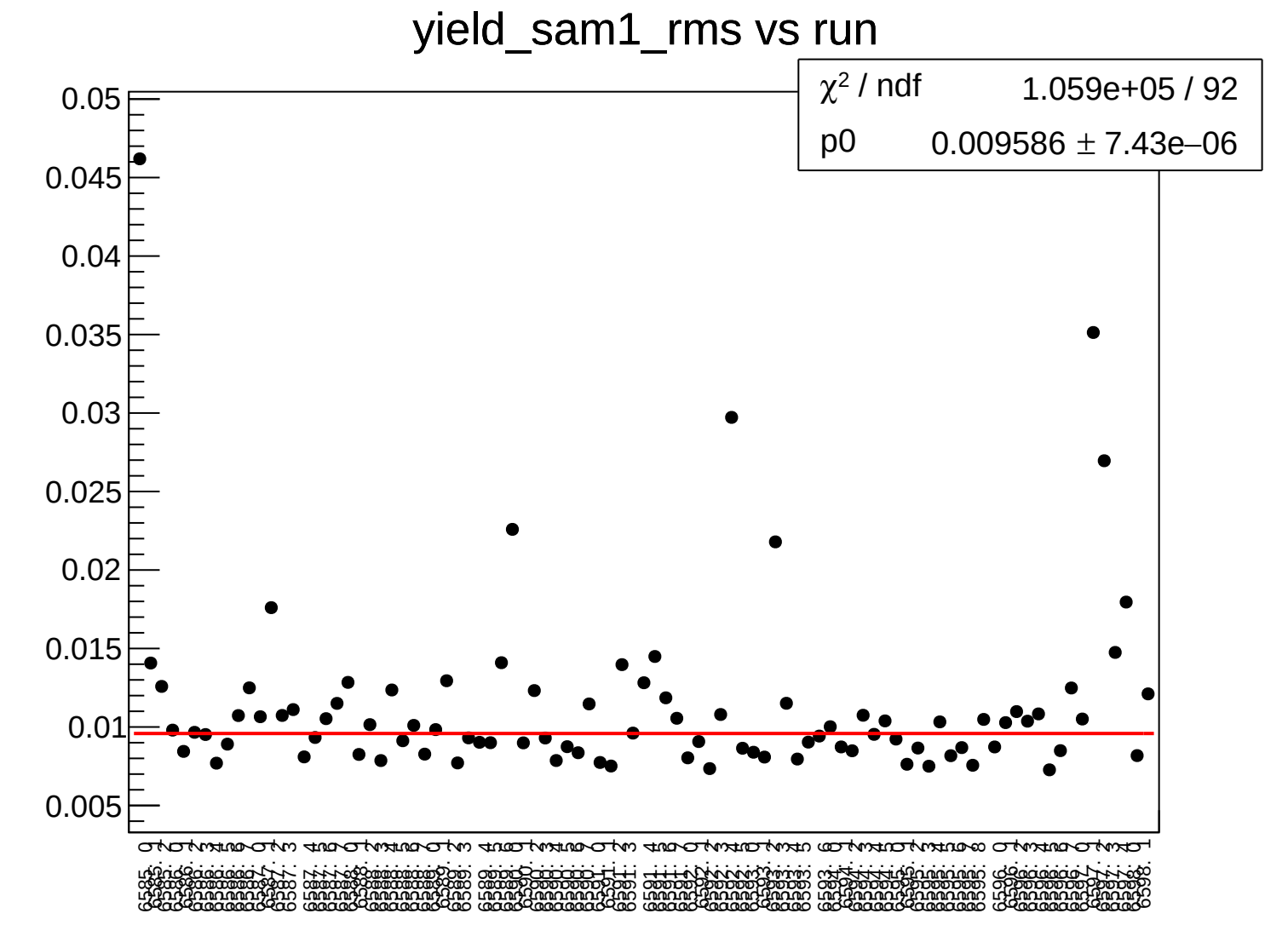

diff_bpm1i06X_rms vs run
χ² / ndf 7.393e+04 / 92
p0 2272 ± 1.744
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

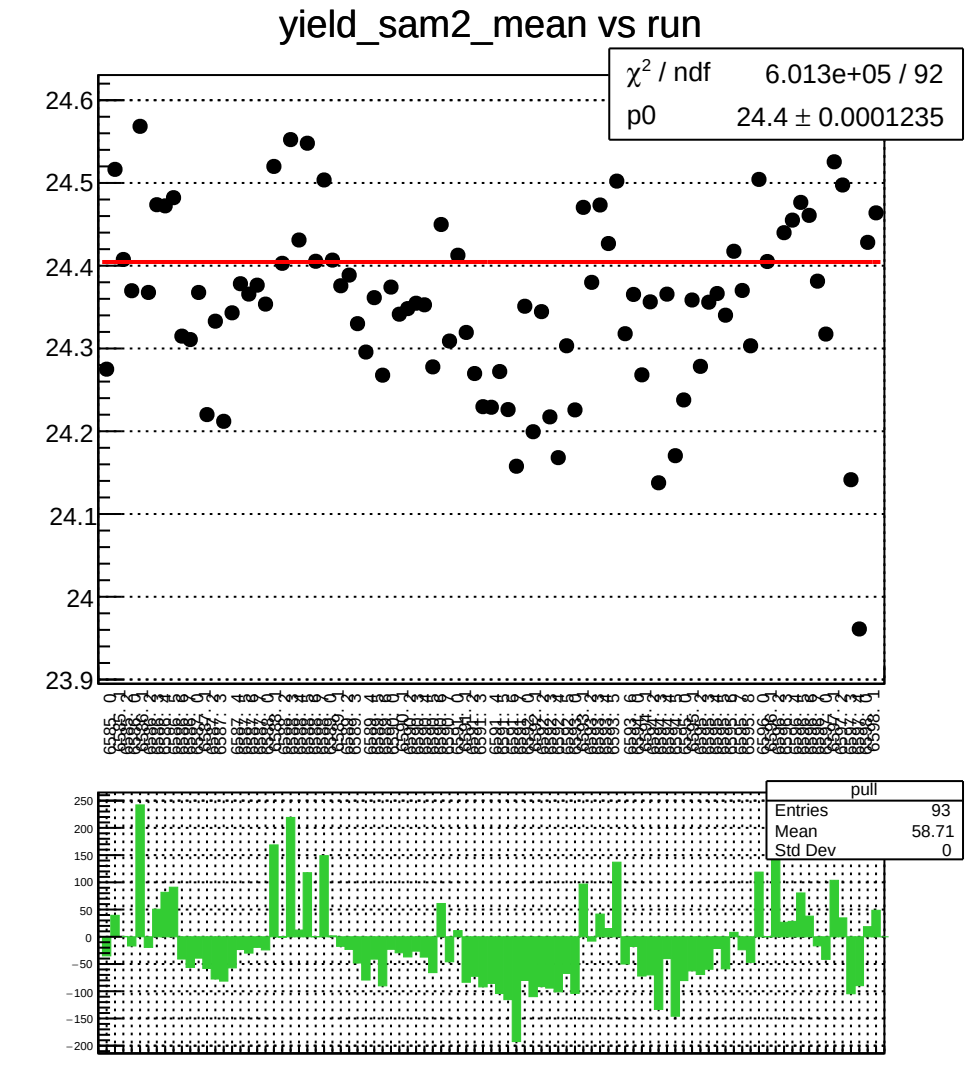

diff_bpm1i06Y_mean vs run
χ² / ndf 85.36 / 92
p0 25.42 ± 2.829
150
100
50
0
−50
pull
Entries 93
Mean −928.7
Std Dev 0
3
2
1
0
−1
−2

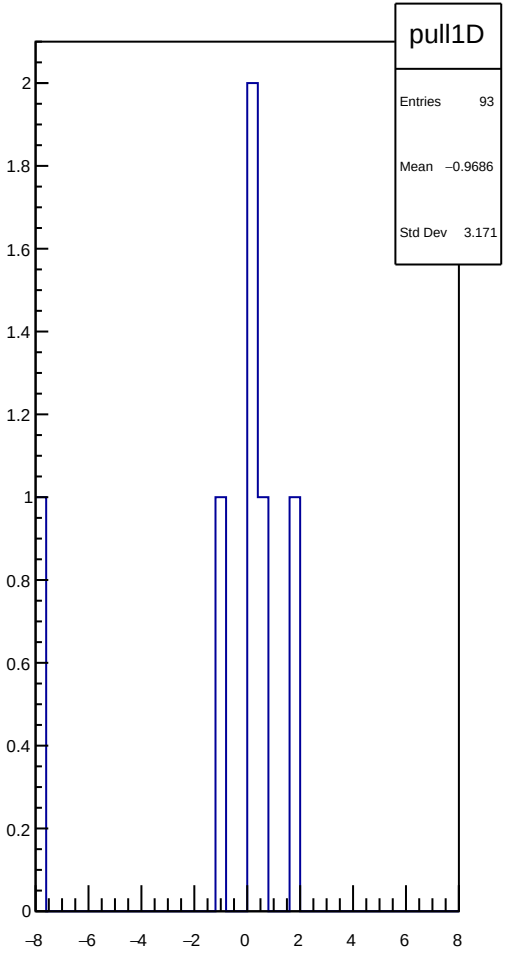

pull1D
Entries 93
Mean −0.005275
Std Dev 0.958
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

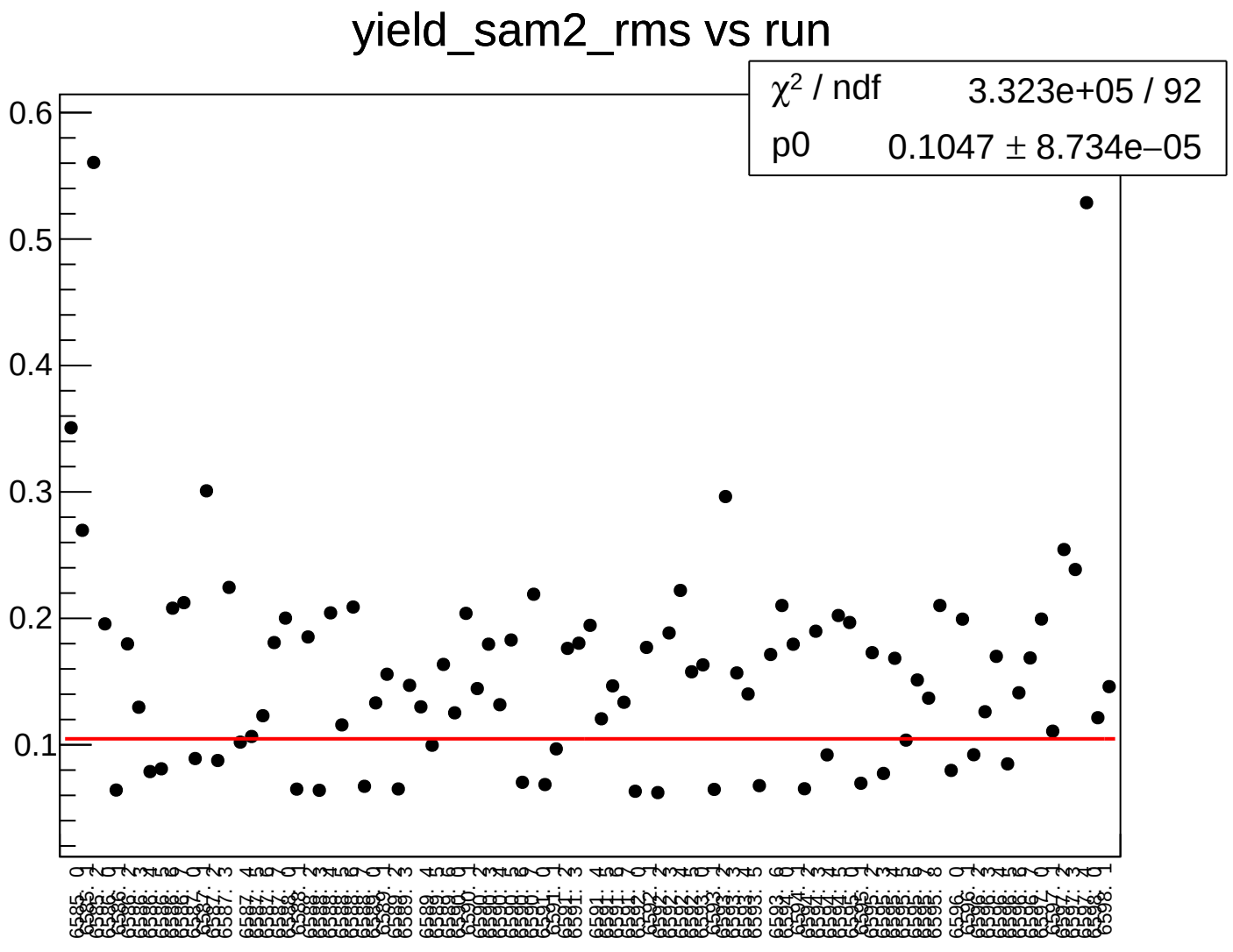

diff_bpm1i06Y_rms vs run
χ² / ndf 4.427e+04 / 92
p0 2628 ± 2
3400
3200
3000
2800
2600
2400
2200
2000
1800

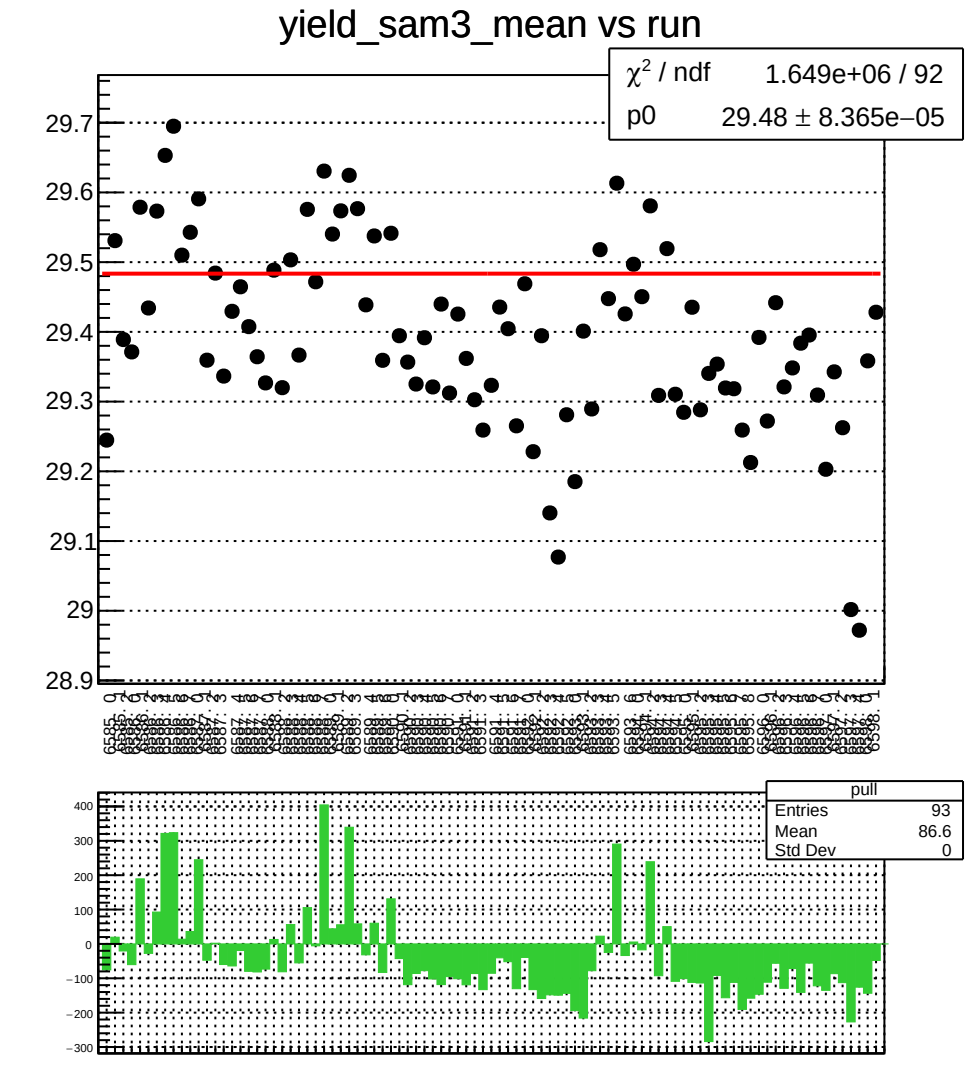

yield_sam1_mean vs run
χ² / ndf 5.894e+06 / 92
p0 15.94 ± 1.051e−05
16.02
16
15.98
15.96
15.94
15.92
15.9
15.88
pull
Entries 93
Mean −480.8
Std Dev 0
600
400
200
0
−200
−400
pull1D
Entries 93
Mean 1.807
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

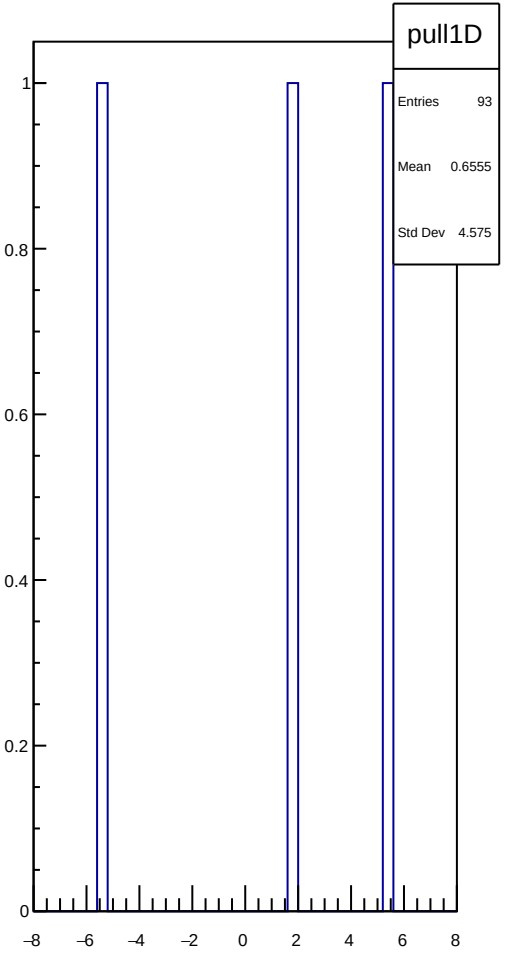

yield_sam1_rms vs run
χ² / ndf 1.059e+05 / 92
p0 0.009586 ± 7.43e–06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

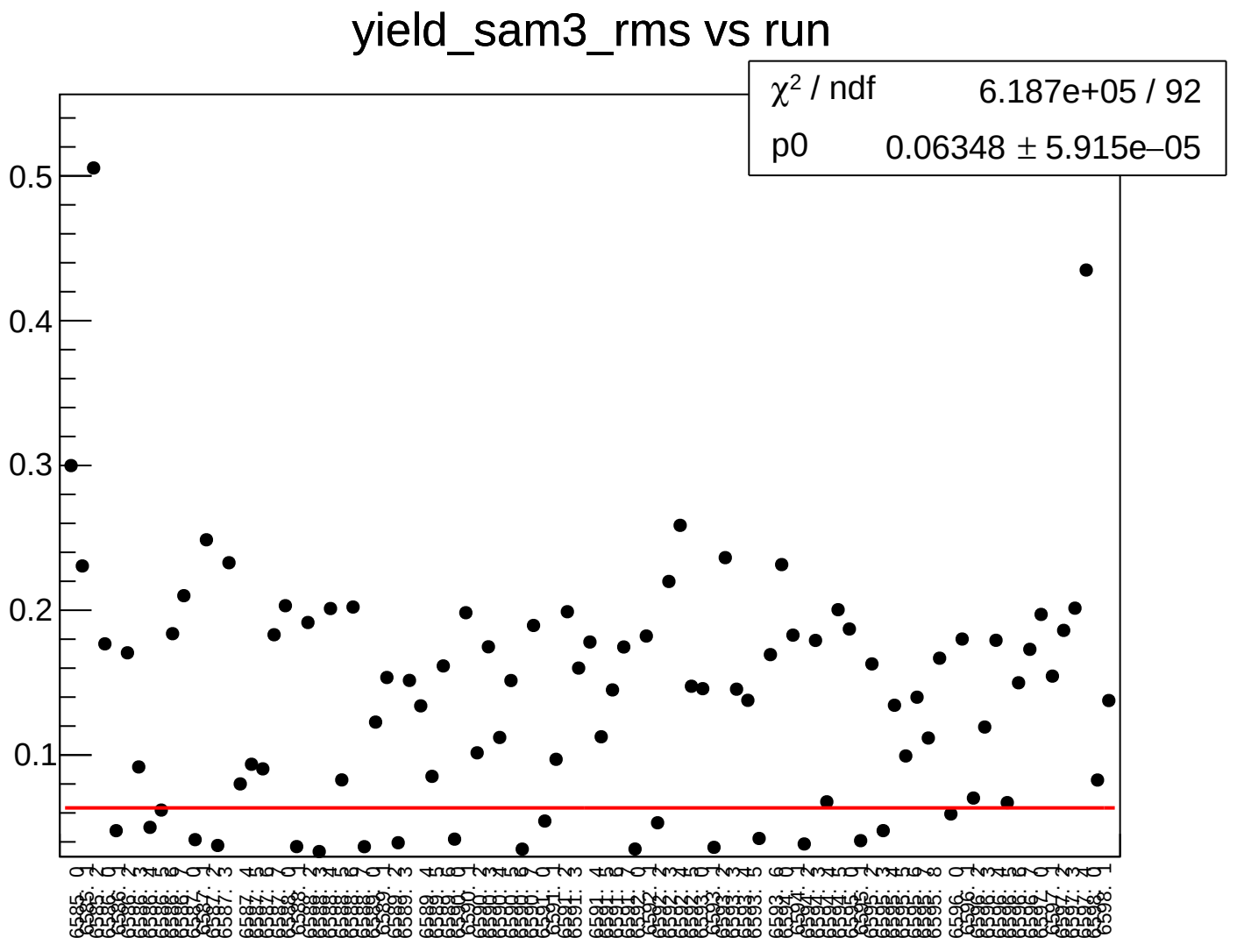

yield_sam2_mean vs run
χ² / ndf 6.013e+05 / 92
p0 24.4 ± 0.0001235
24.6
24.5
24.4
24.3
24.2
24.1
24
23.9
pull
Entries 93
Mean 58.71
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

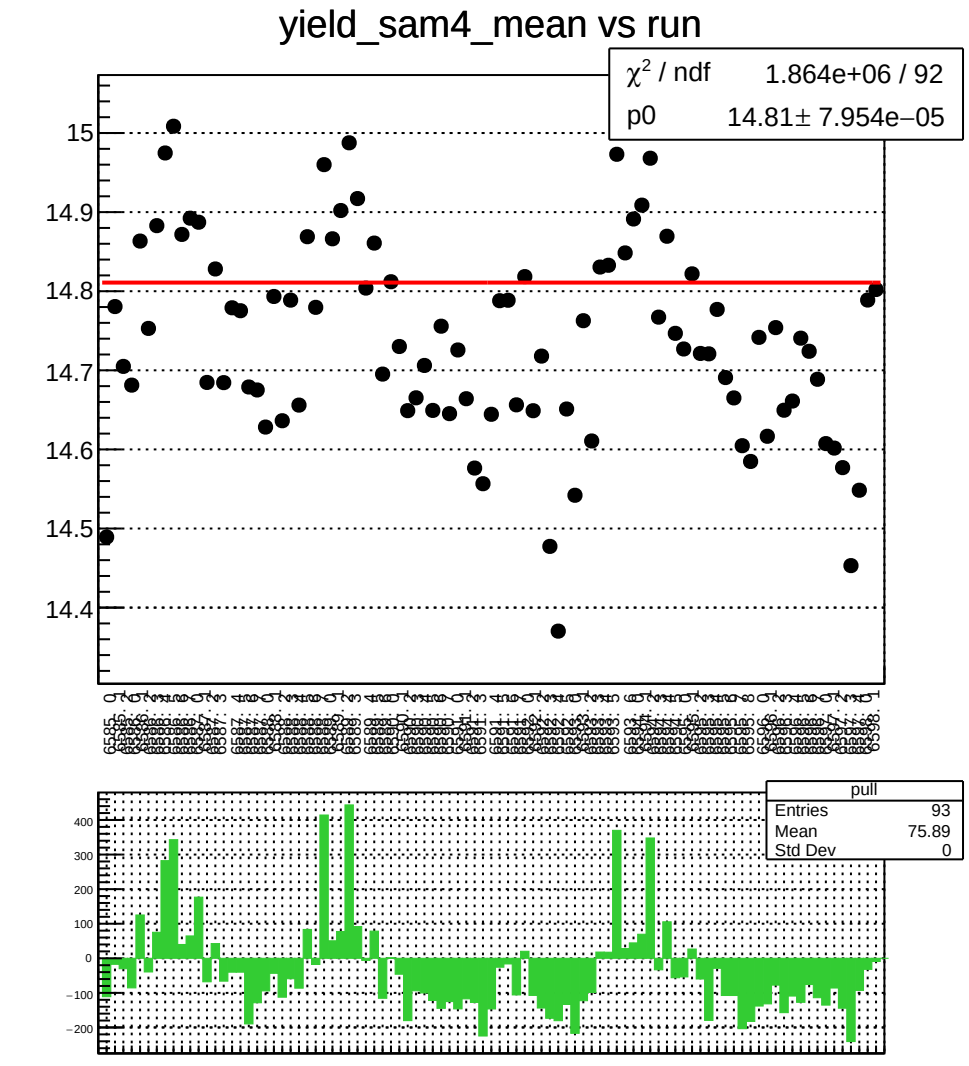

pull1D
Entries 93
Mean −0.9686
Std Dev 3.171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

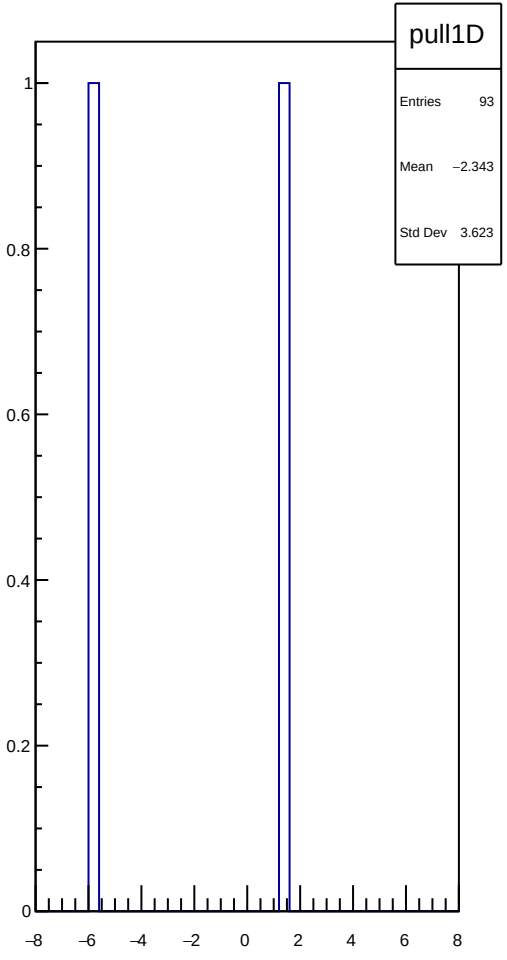

yield_sam2_rms vs run
χ² / ndf 3.323e+05 / 92
p0 0.1047 ± 8.734e−05
0.6
0.5
0.4
0.3
0.2
0.1

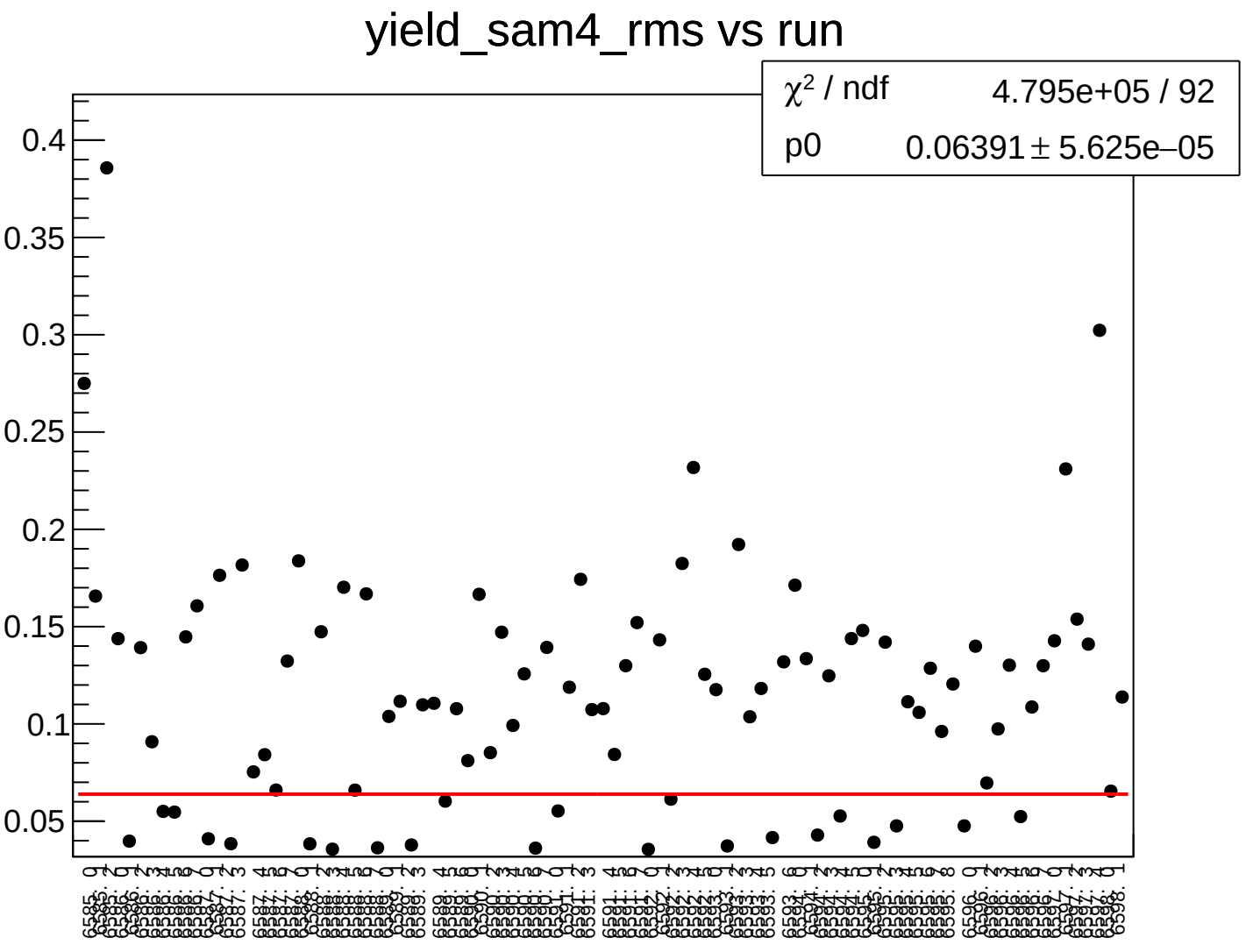

yield_sam3_mean vs run
χ² / ndf 1.649e+06 / 92
p0 29.48 ± 8.365e−05
29.7
29.6
29.5
29.4
29.3
29.2
29.1
29
28.9
pull
Entries 93
Mean 86.6
Std Dev 0
400
300
200
100
0
−100
−200
−300

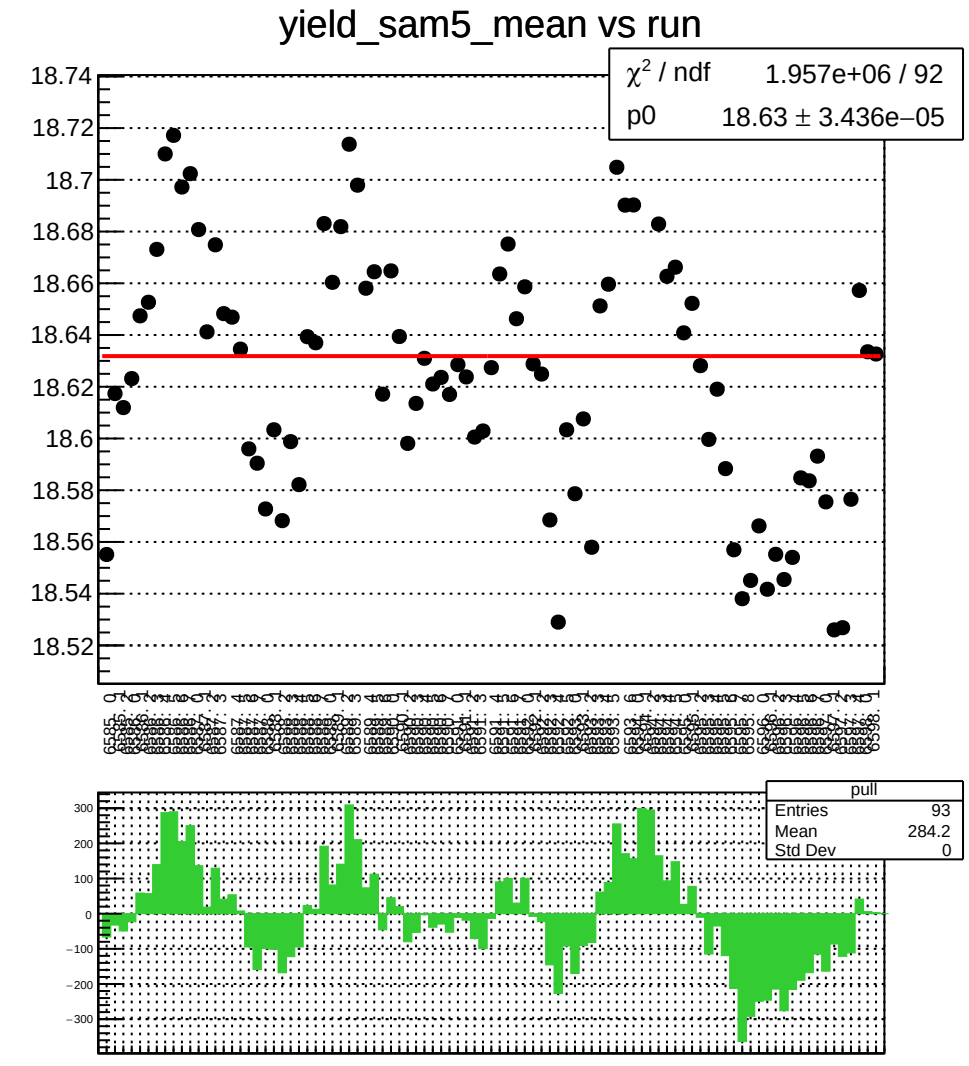

pull1D
Entries 93
Mean 0.6555
Std Dev 4.575
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

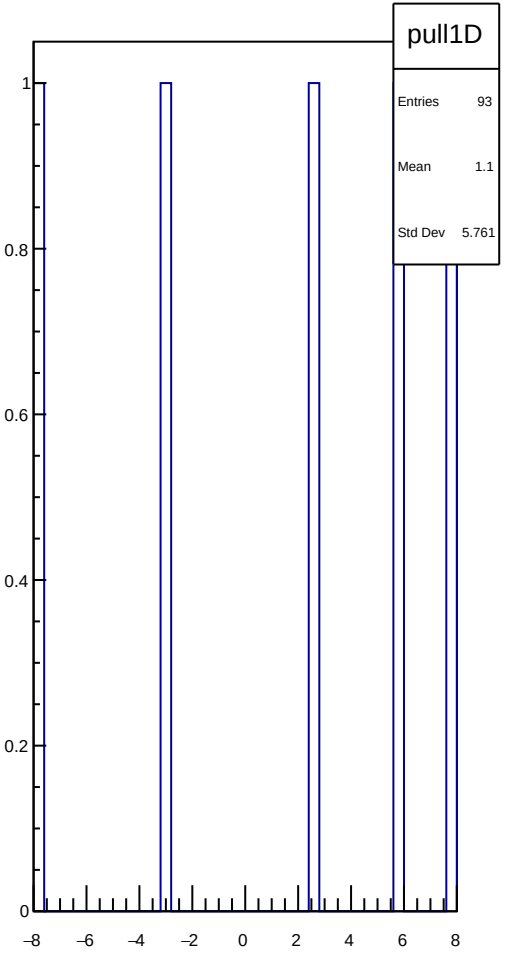

yield_sam3_rms vs run
χ² / ndf 6.187e+05 / 92
p0 0.06348 ± 5.915e–05
0.5
0.4
0.3
0.2
0.1

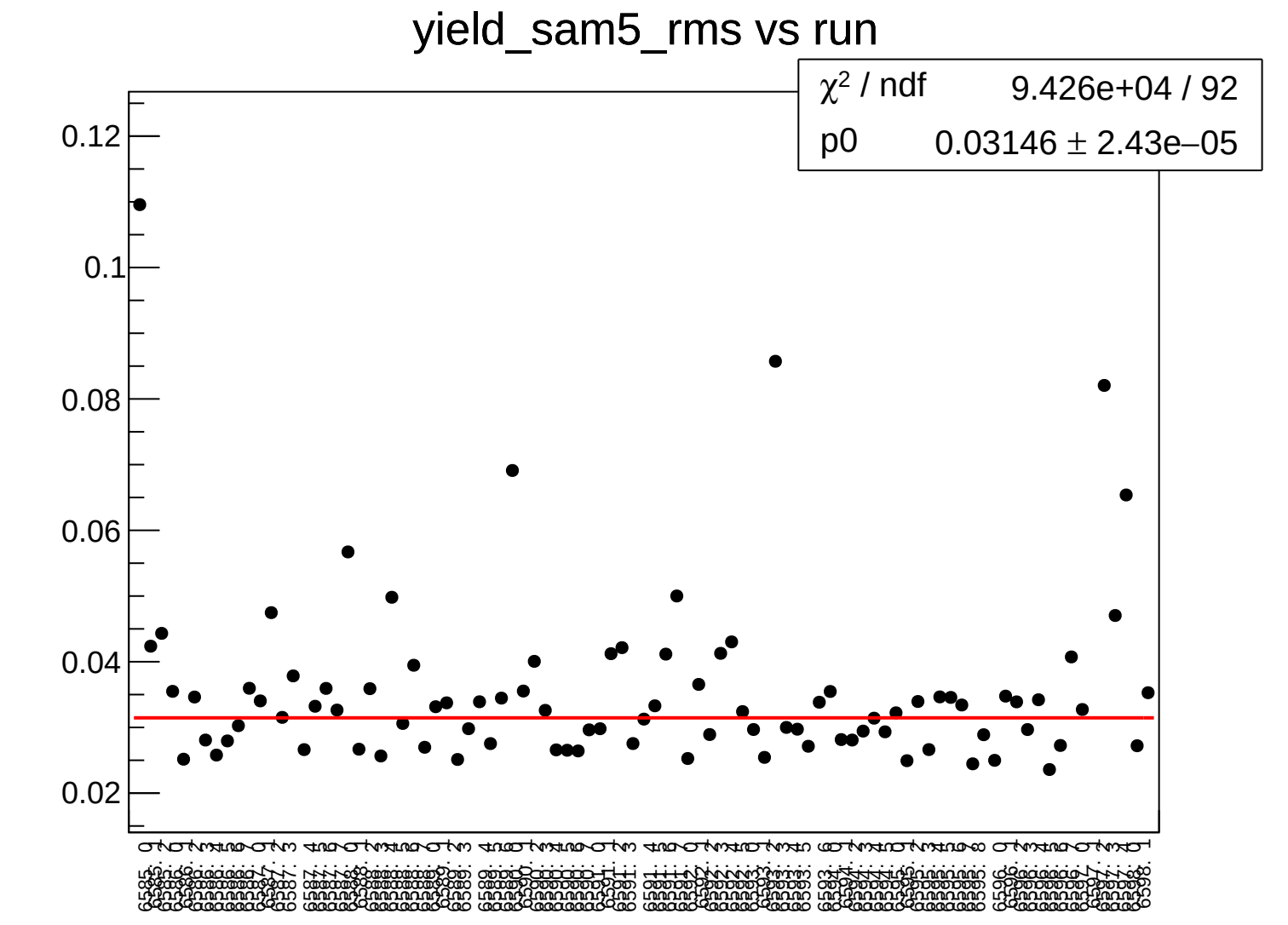

yield_sam4_mean vs run
χ² / ndf 1.864e+06 / 92
p0 14.81± 7.954e−05
15
14.9
14.8
14.7
14.6
14.5
14.4
pull
Entries 93
Mean 75.89
Std Dev 0
400
300
200
100
0
−100
−200

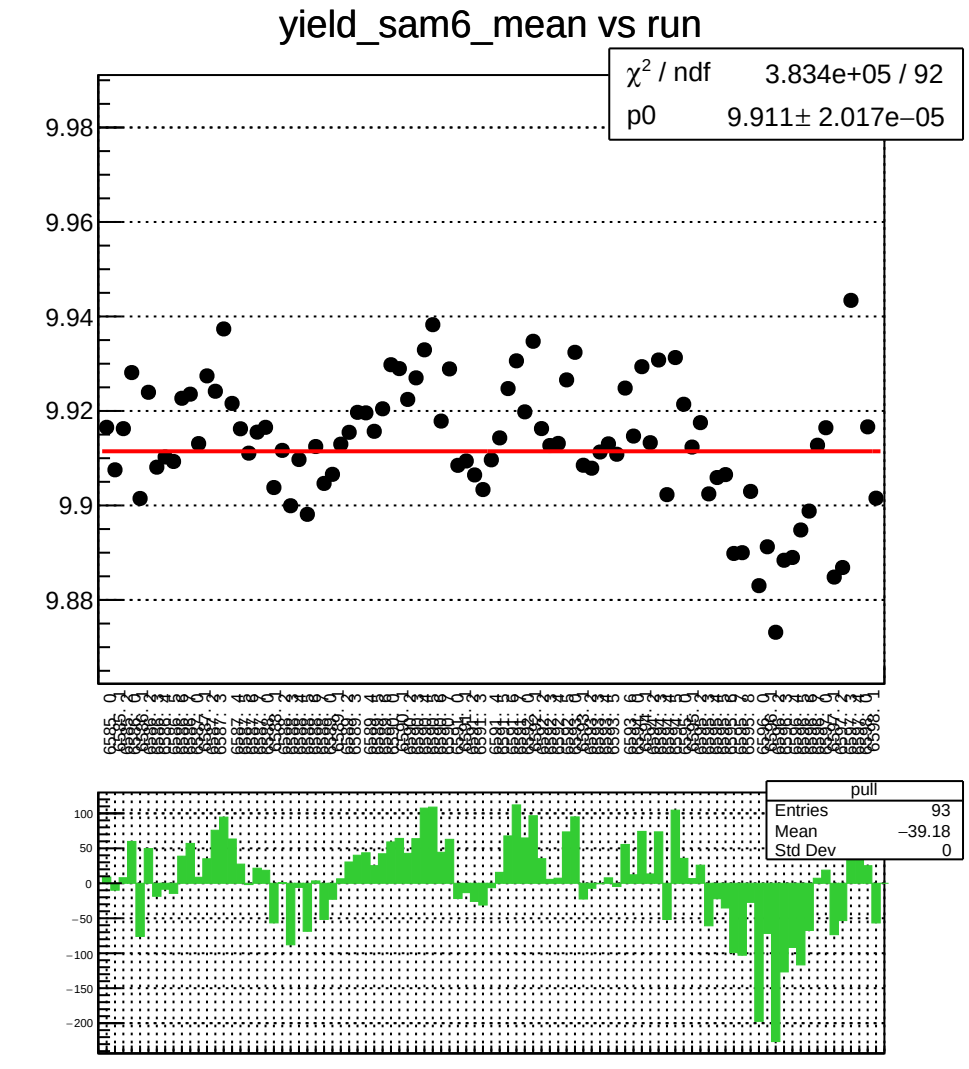

pull1D
Entries 93
Mean −2.343
Std Dev 3.623
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

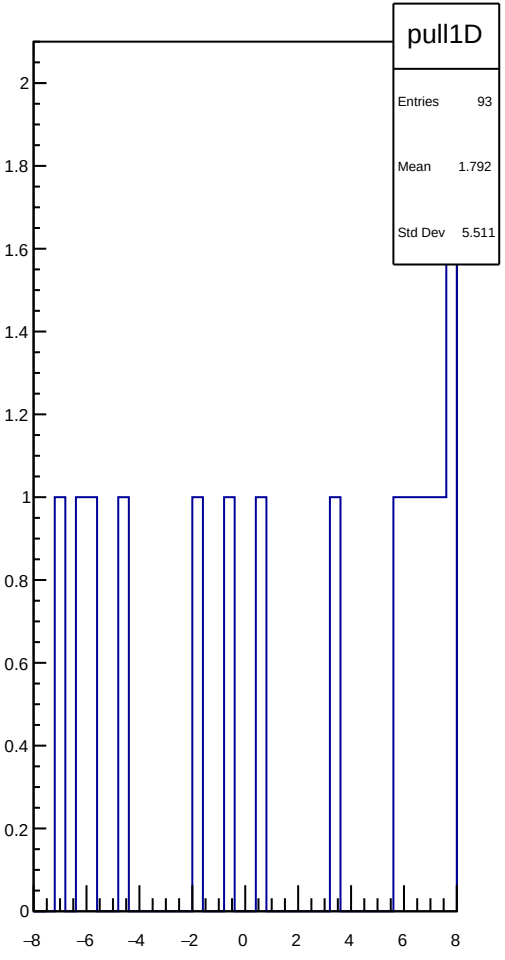

yield_sam4_rms vs run
χ² / ndf 4.795e+05 / 92
p0 0.06391 ± 5.625e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

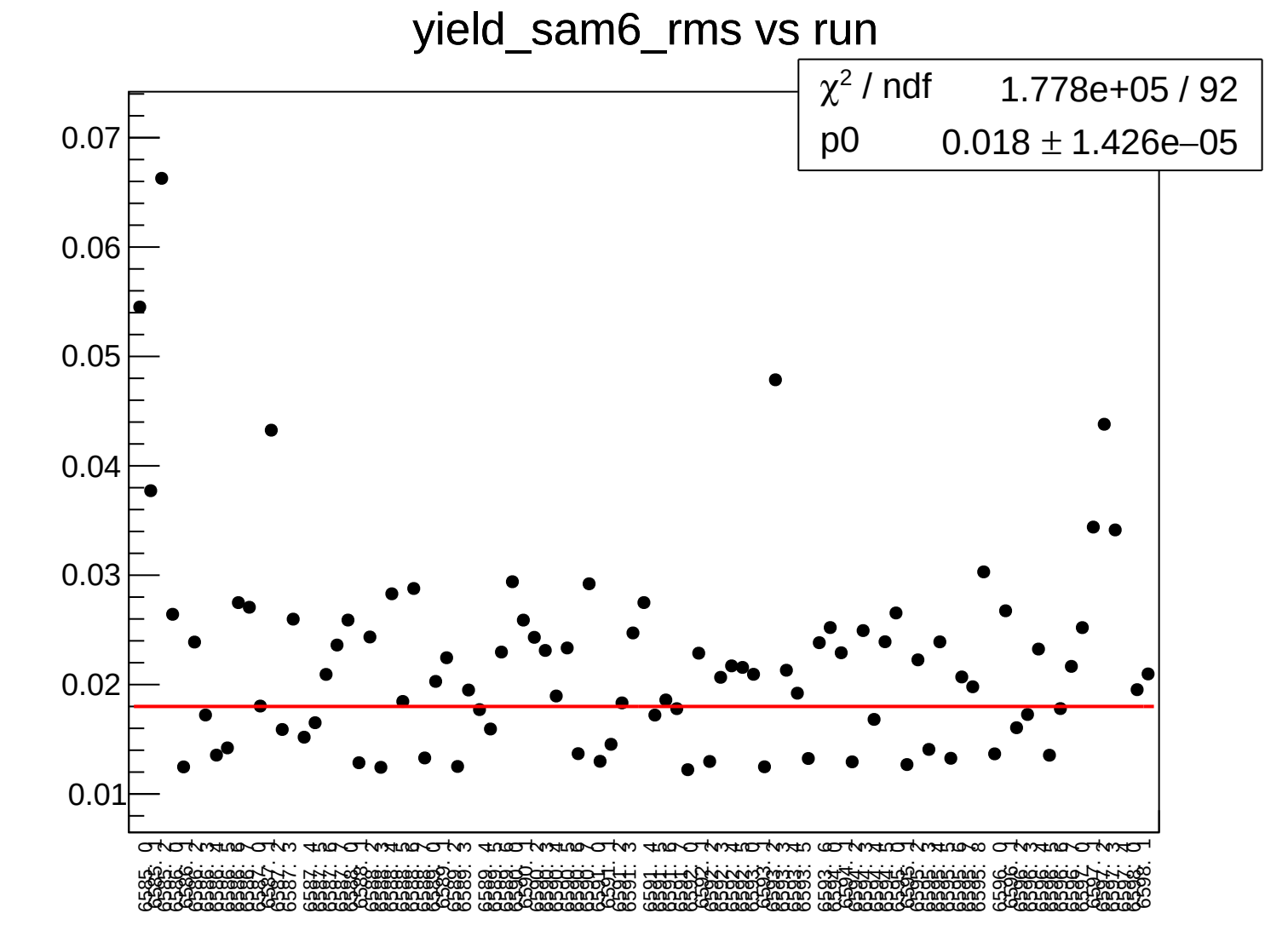

yield_sam5_mean vs run
χ² / ndf 1.957e+06 / 92
p0 18.63 ± 3.436e−05
18.74
18.72
18.7
18.68
18.66
18.64
18.62
18.6
18.58
18.56
18.54
18.52
pull
Entries 93
Mean 284.2
Std Dev 0
300
200
100
0
−100
−200
−300

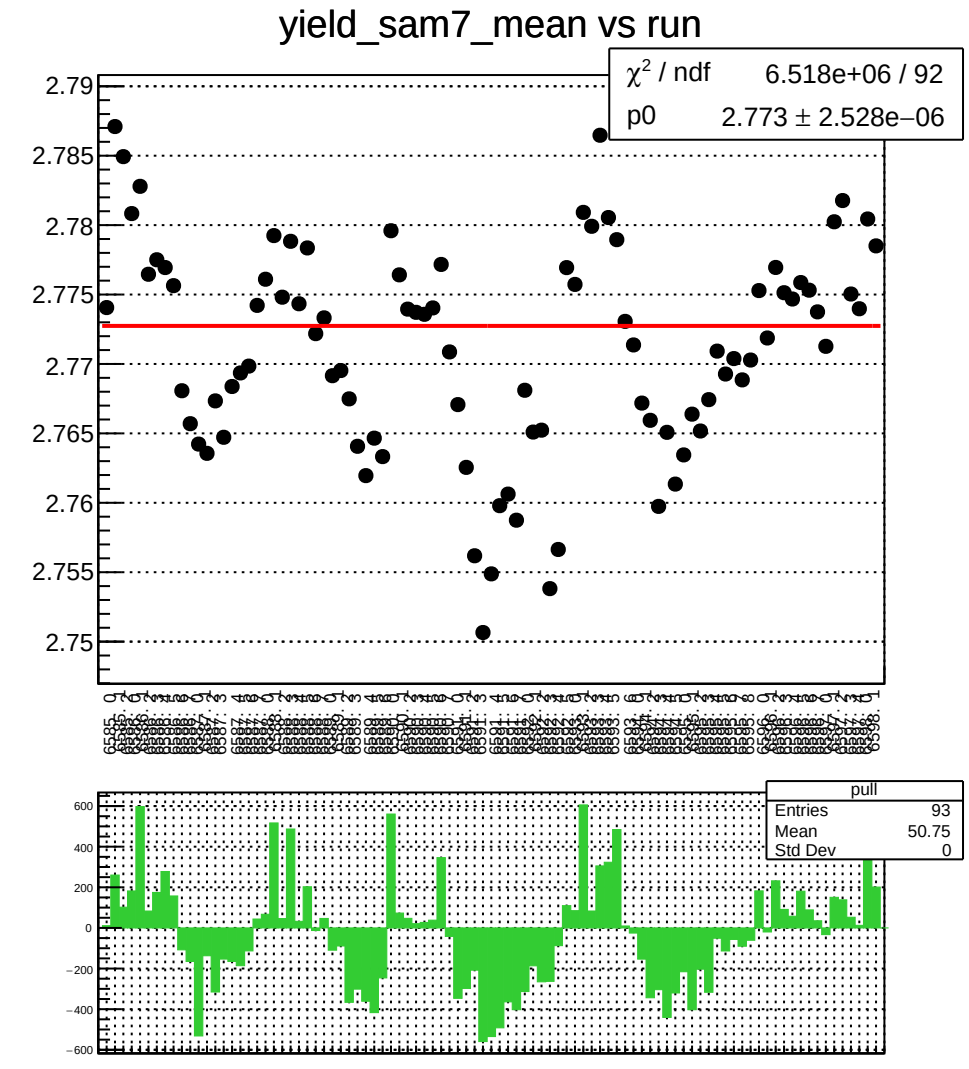

pull1D
Entries 93
Mean 1.1
Std Dev 5.761
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

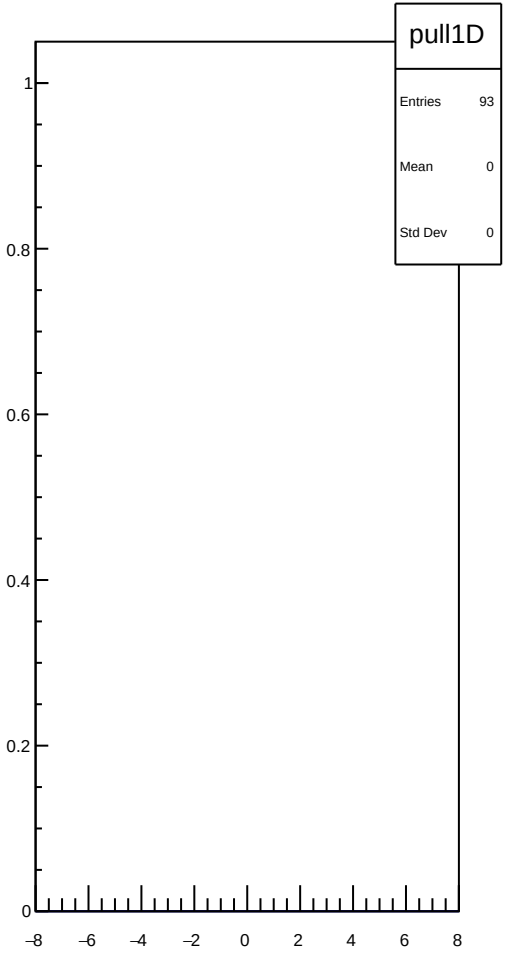

yield_sam5_rms vs run
χ² / ndf 9.426e+04 / 92
p0 0.03146 ± 2.43e−05
0.12
0.1
0.08
0.06
0.04
0.02

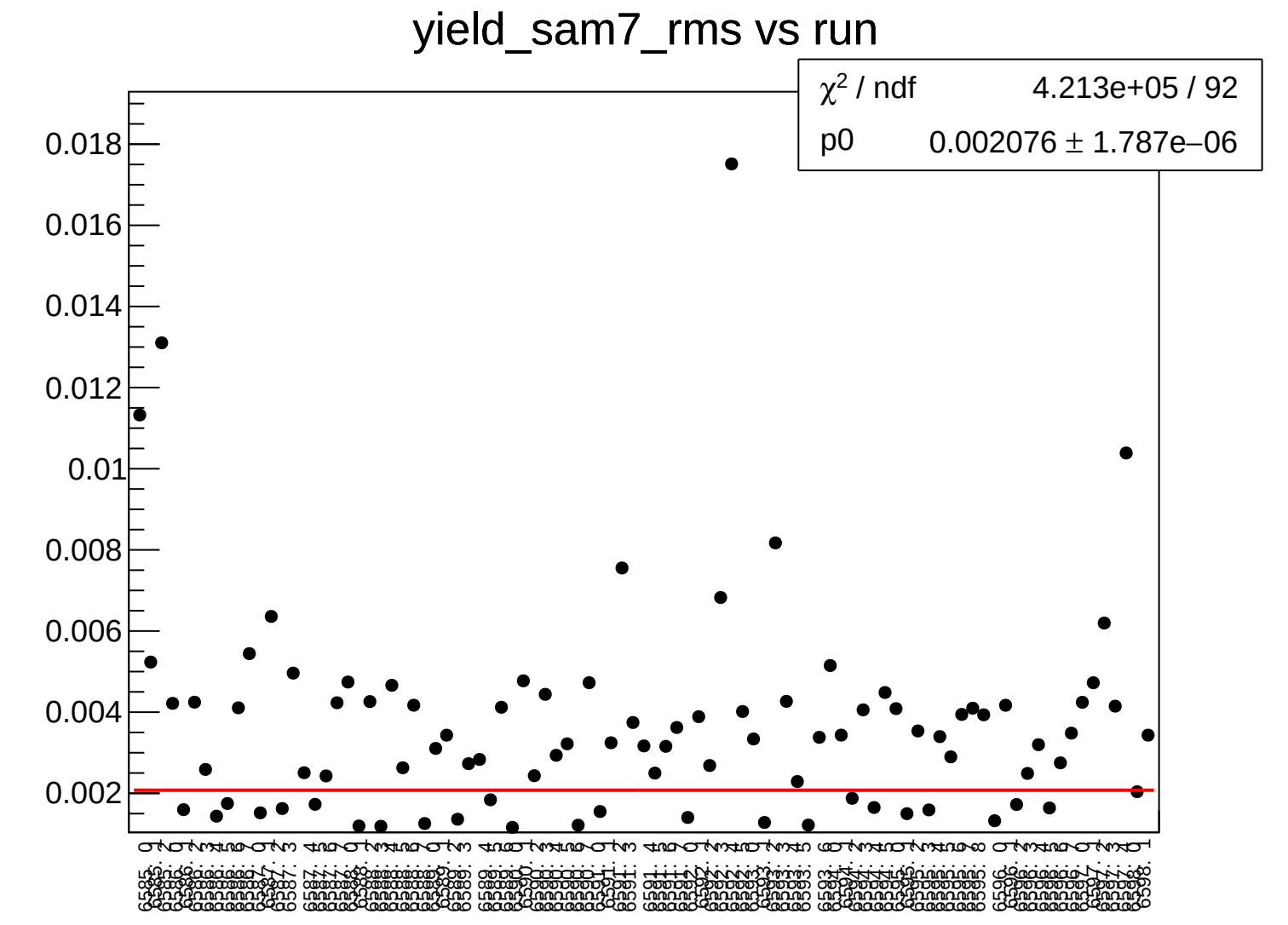

yield_sam6_mean vs run
χ² / ndf 3.834e+05 / 92
p0 9.911± 2.017e−05
9.98
9.96
9.94
9.92
9.9
9.88
pull
Entries 93
Mean −39.18
Std Dev 0
100
50
0
−50
−100
−150
−200

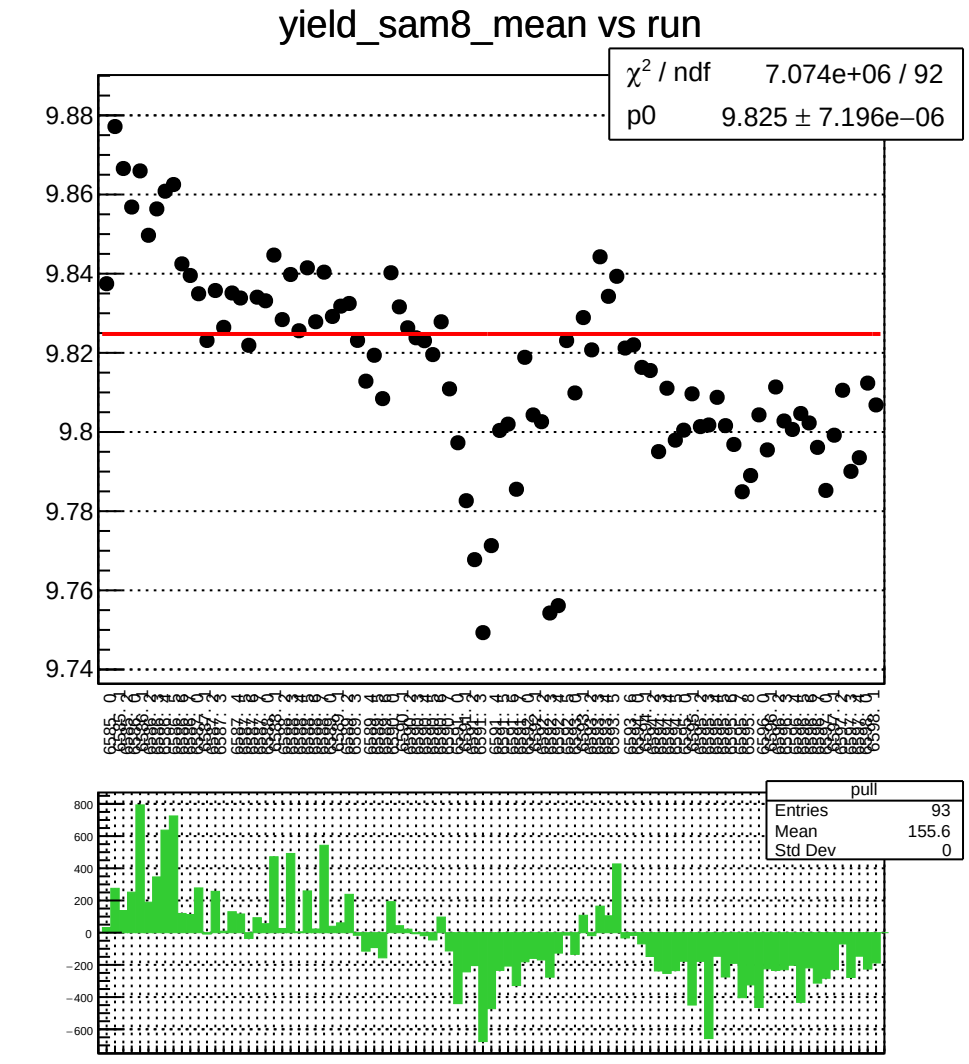

pull1D
Entries 93
Mean 1.792
Std Dev 5.511
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

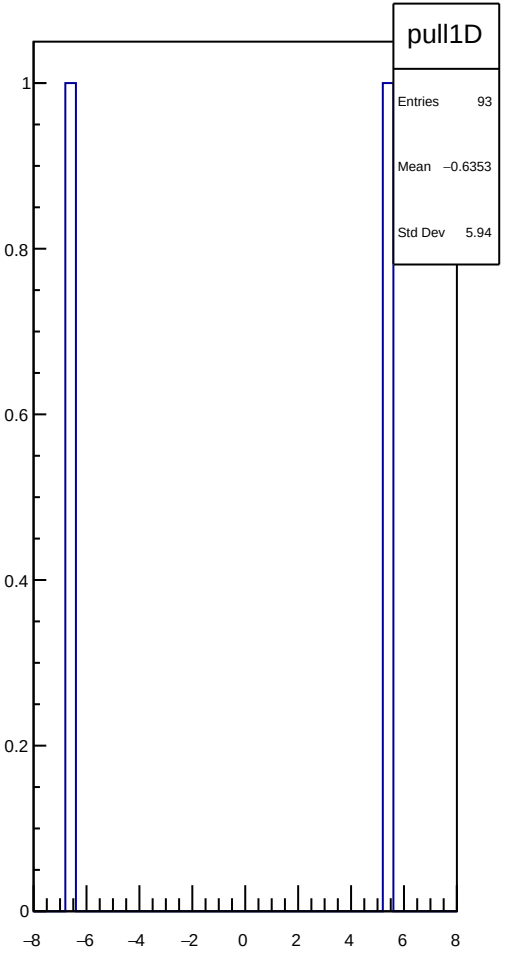

yield_sam6_rms vs run
χ² / ndf 1.778e+05 / 92
p0 0.018 ± 1.426e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

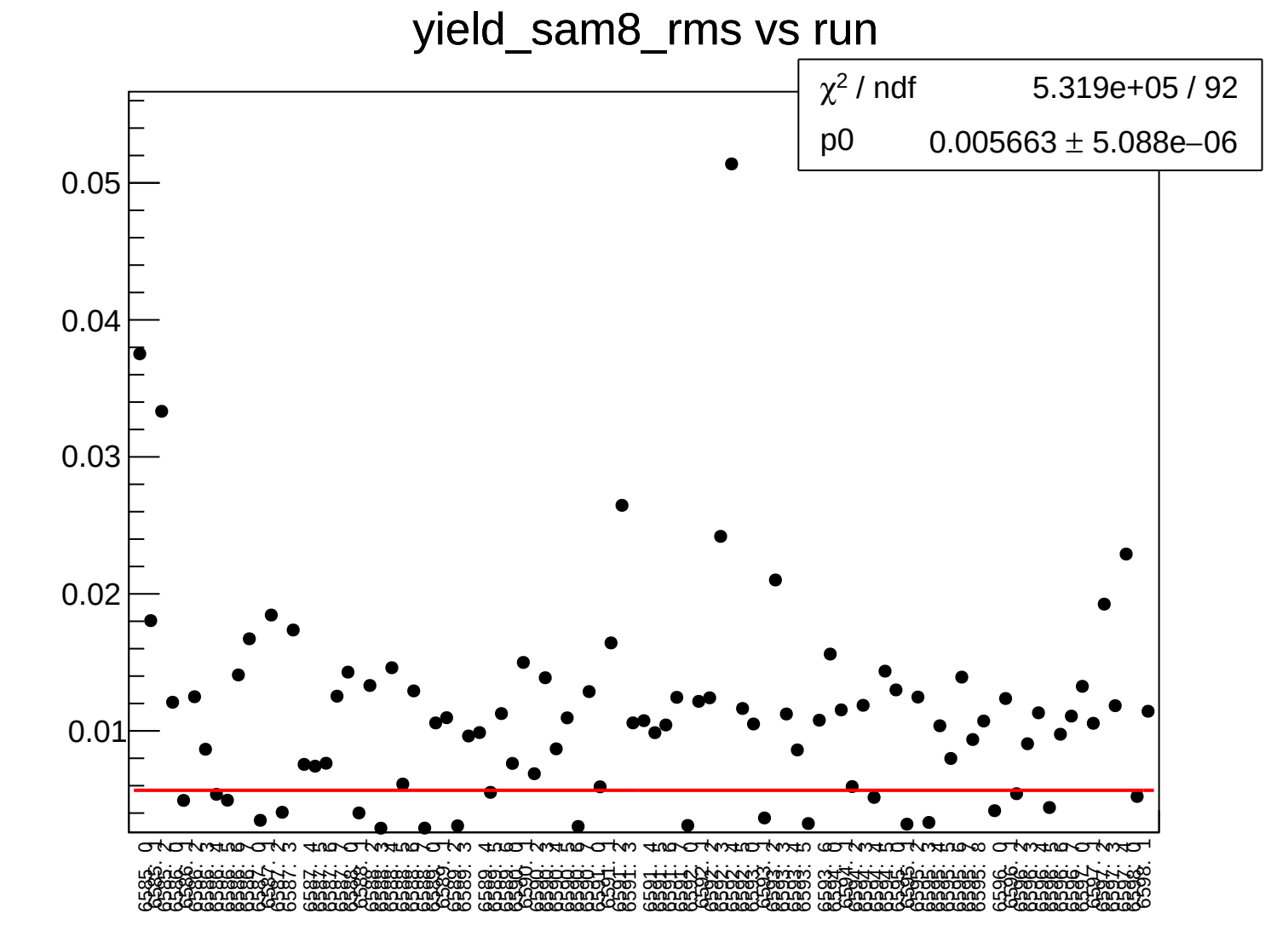

yield_sam7_mean vs run
χ² / ndf 6.518e+06 / 92
p0 2.773 ± 2.528e−06
2.79
2.785
2.78
2.775
2.77
2.765
2.76
2.755
2.75
pull
Entries 93
Mean 50.75
Std Dev 0
600
400
200
0
−200
−400
−600

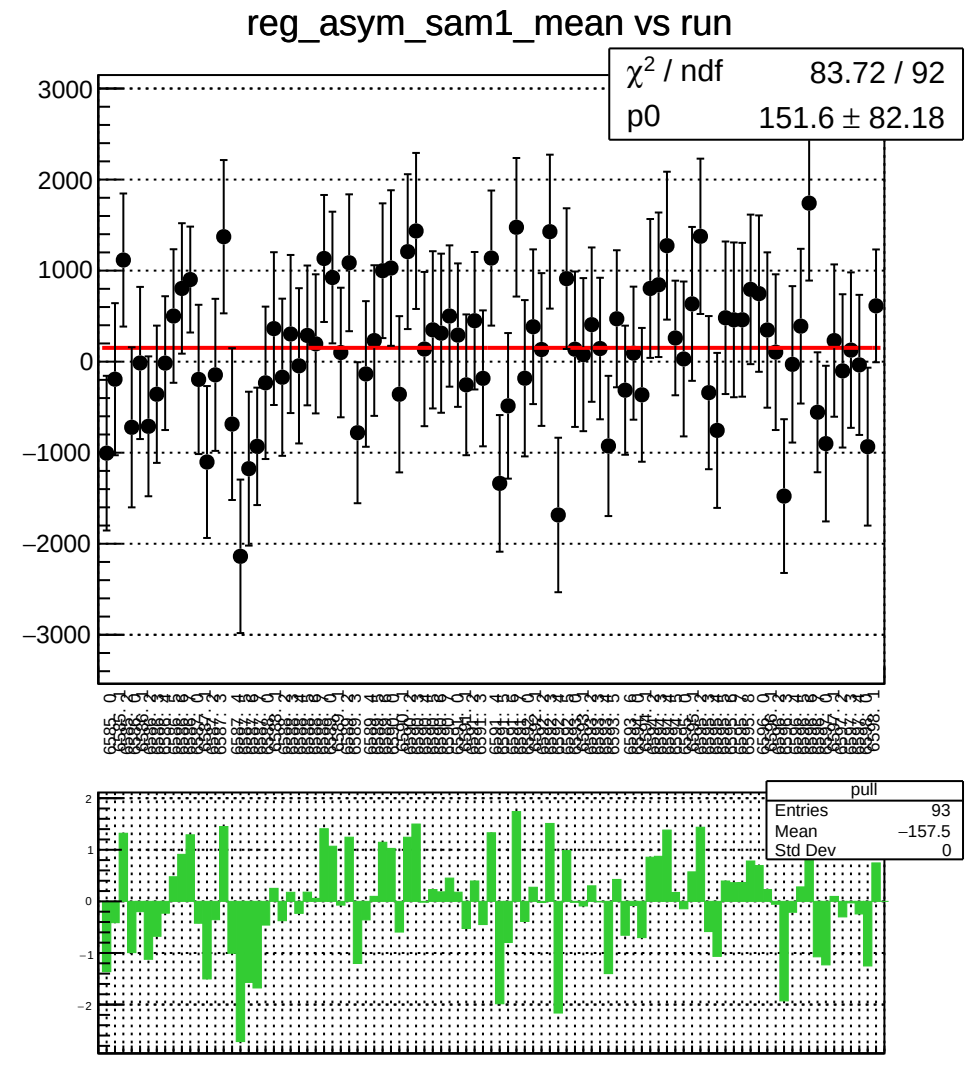

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

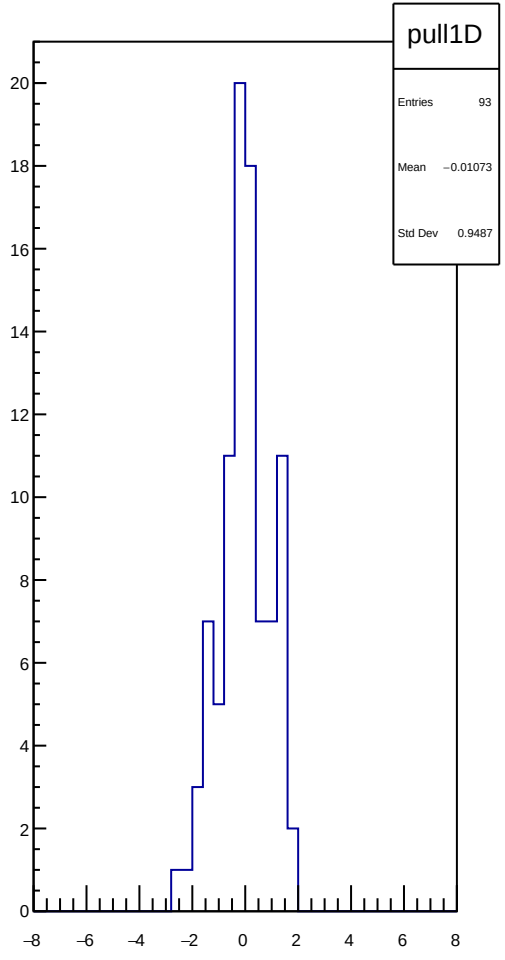

yield_sam7_rms vs run
χ² / ndf 4.213e+05 / 92
p0 0.002076 ± 1.787e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

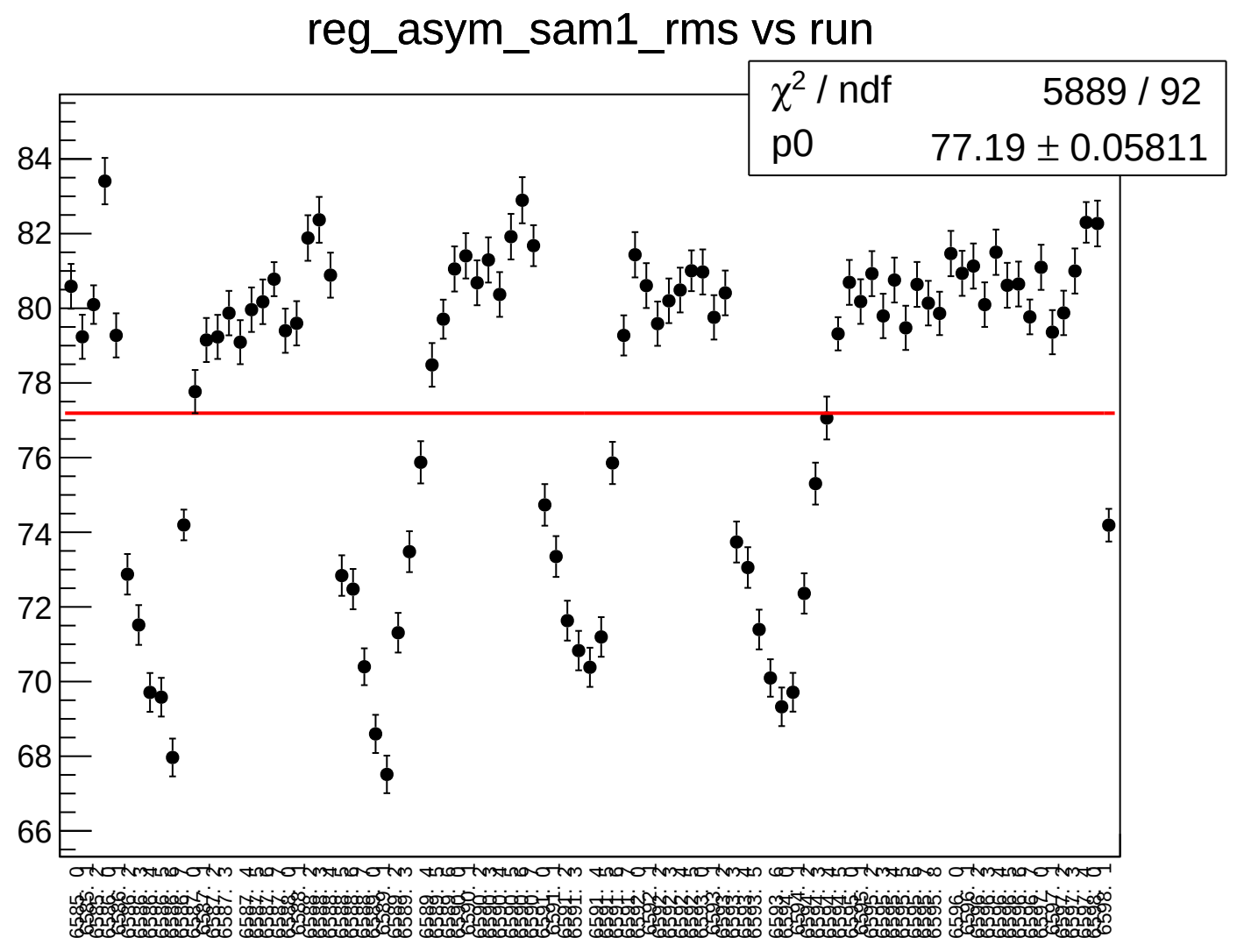

yield_sam8_mean vs run
χ² / ndf 7.074e+06 / 92
p0 9.825 ± 7.196e−06
9.88
9.86
9.84
9.82
9.8
9.78
9.76
9.74
pull
Entries 93
Mean 155.6
Std Dev 0
800
600
400
200
0
−200
−400
−600

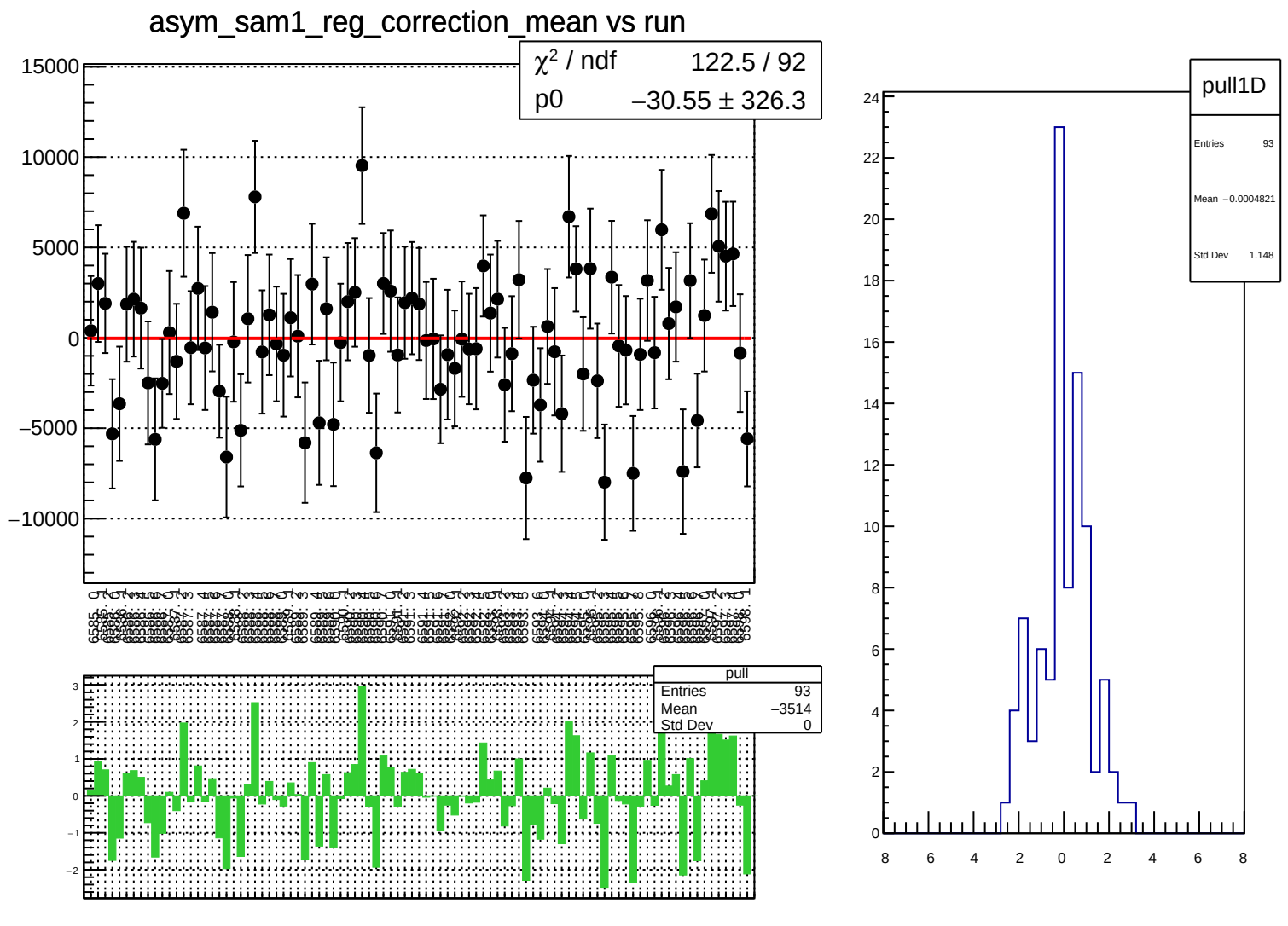

pull1D
Entries 93
Mean −0.6353
Std Dev 5.94
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

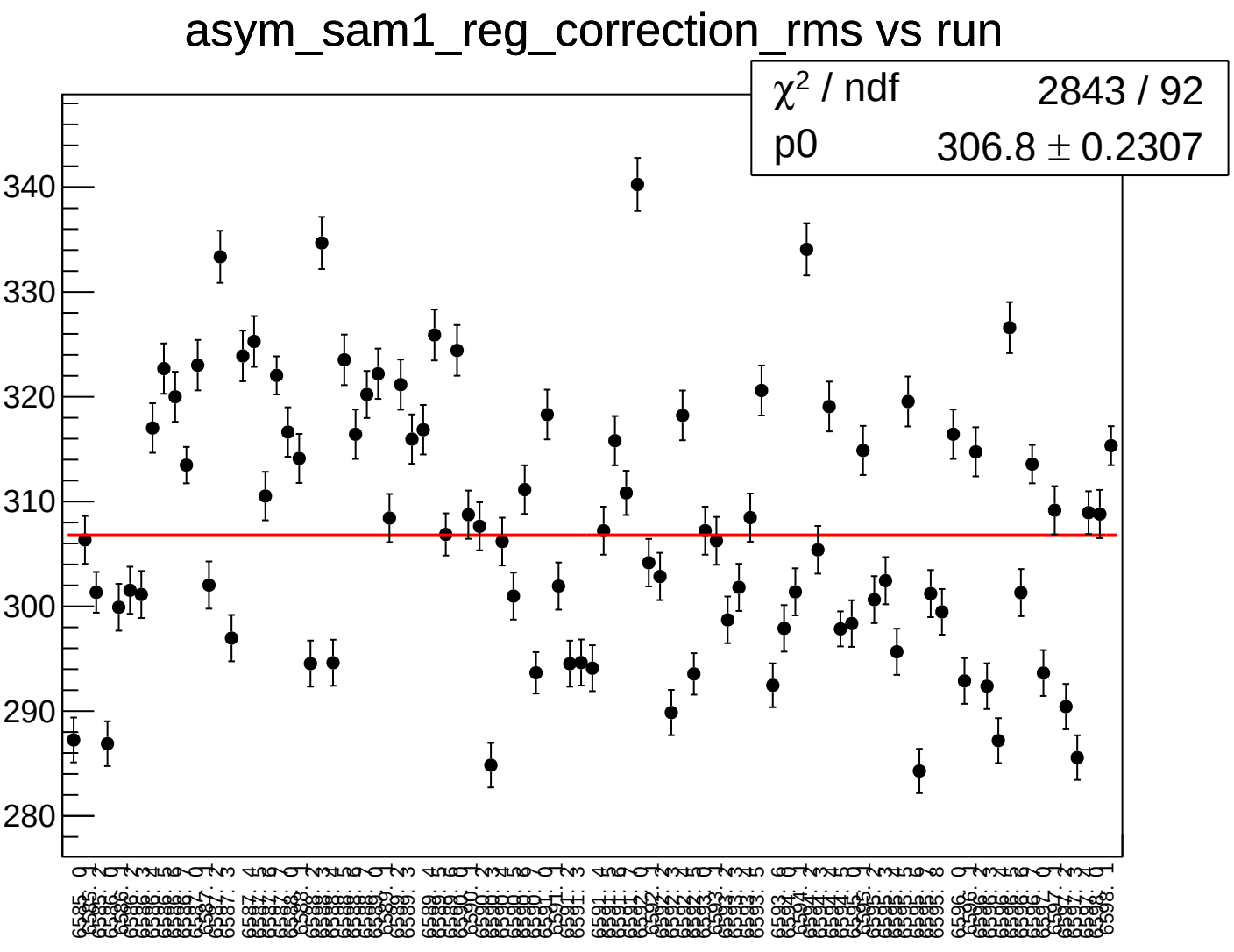

yield_sam8_rms vs run
χ^2 / ndf 5.319e+05 / 92
p0 0.005663 ± 5.088e−06
0.05
0.04
0.03
0.02
0.01

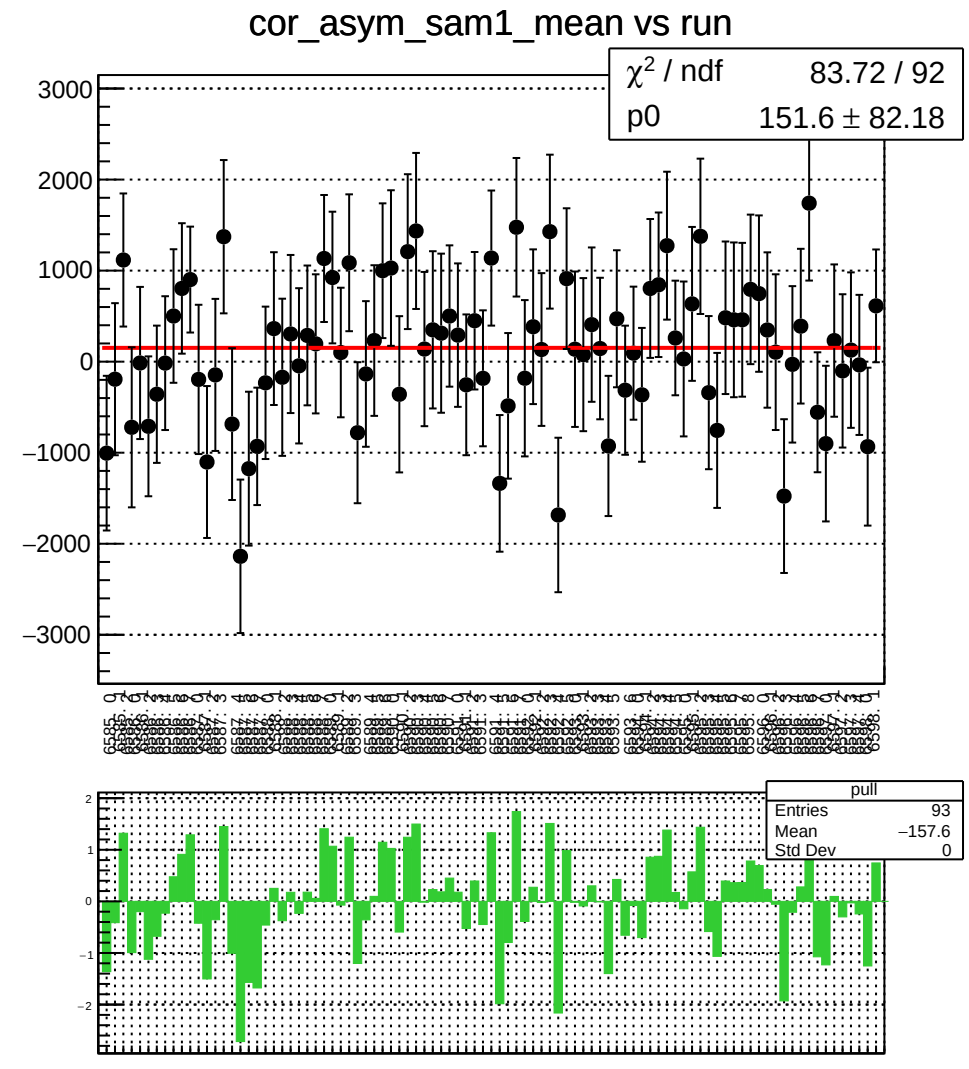

reg_asym_sam1_mean vs run
χ² / ndf 83.72 / 92
p0 151.6 ± 82.18
pull
Entries 93
Mean −157.5
Std Dev 0

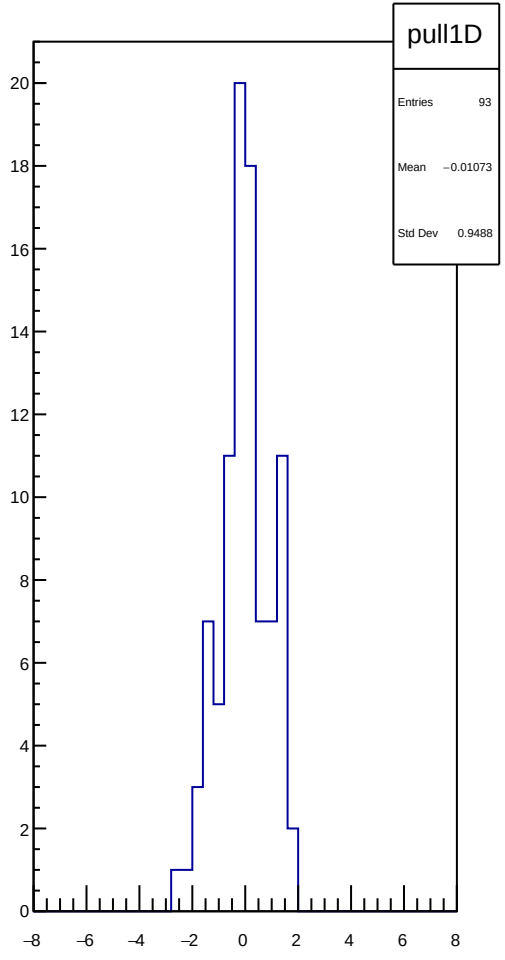

pull1D
Entries 93
Mean −0.01073
Std Dev 0.9487

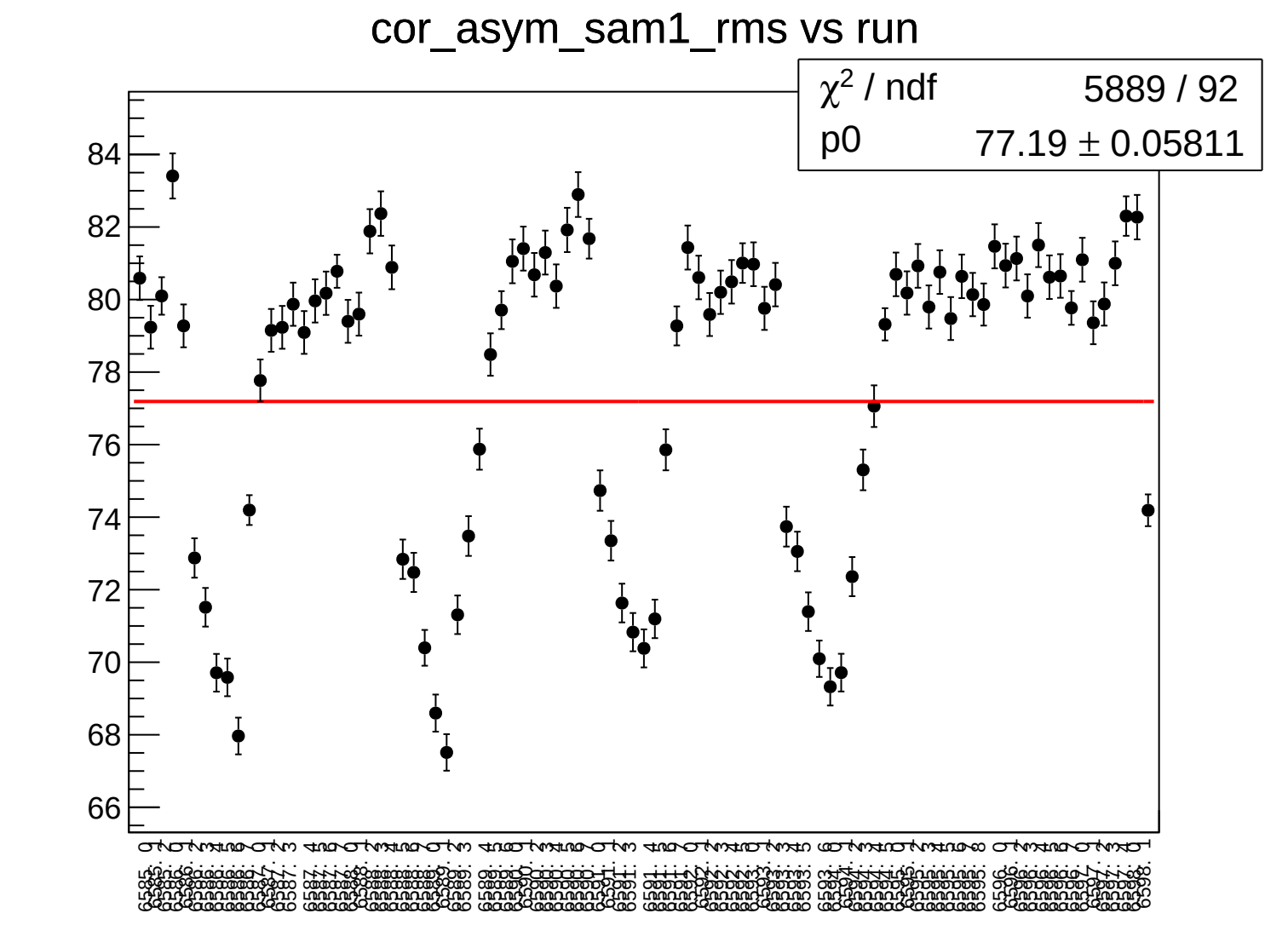

reg_asym_sam1_rms vs run
χ² / ndf 5889 / 92
p0 77.19 ± 0.05811
84
82
80
78
76
74
72
70
68
66

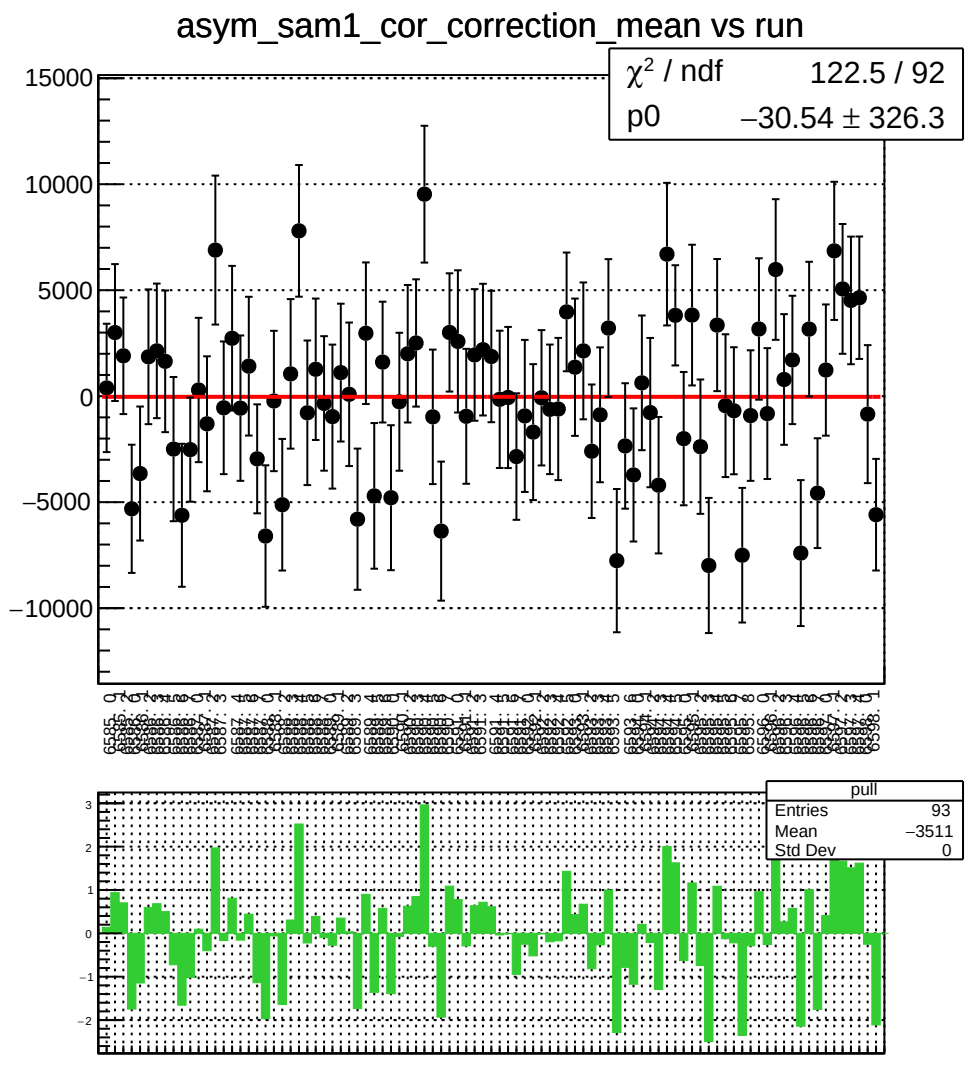

asym_sam1_reg_correction_mean vs run
χ² / ndf 122.5 / 92
p0 −30.55 ± 326.3
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −3514
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0004821
Std Dev 1.148
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

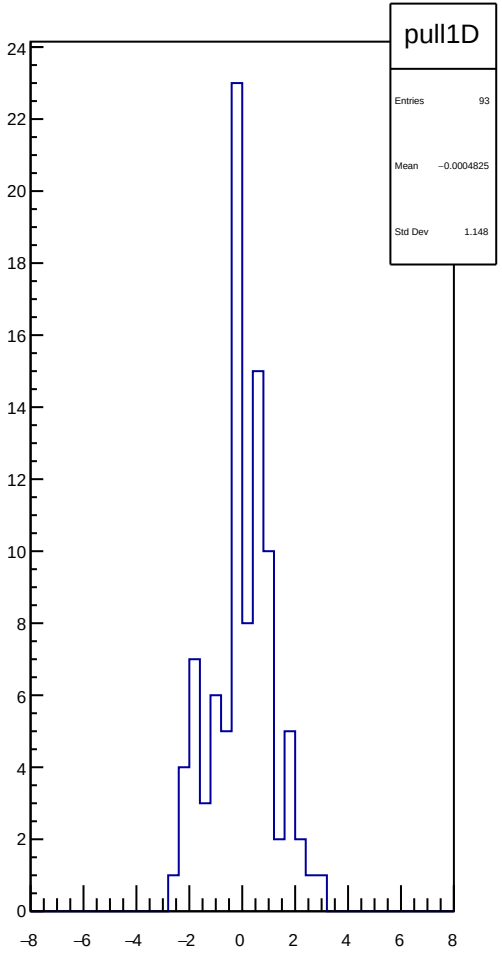

asym_sam1_reg_correction_rms vs run
χ² / ndf 2843 / 92
p0 306.8 ± 0.2307
340
330
320
310
300
290
280

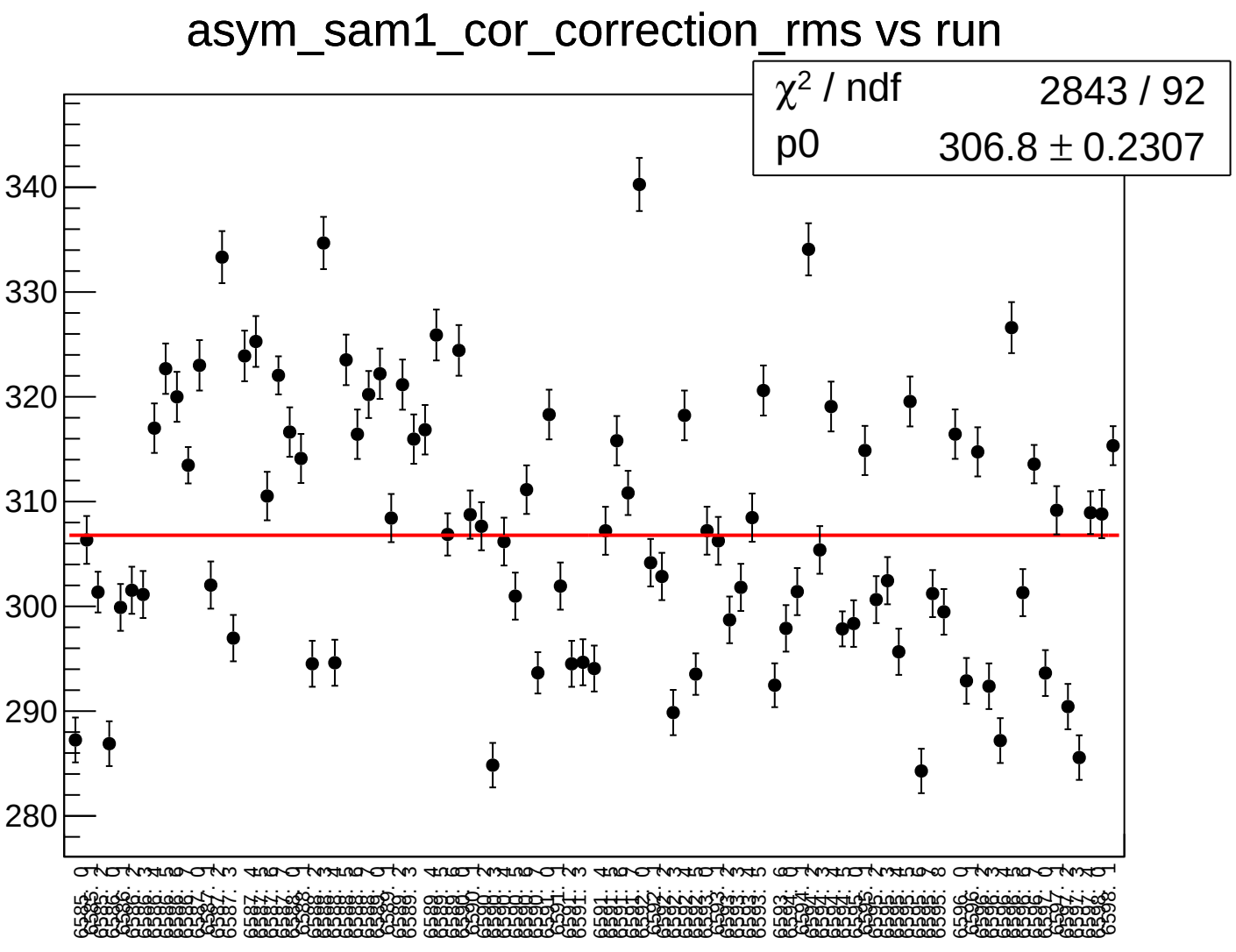

cor_asym_sam1_mean vs run
χ² / ndf 83.72 / 92
p0 151.6 ± 82.18
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −157.6
Std Dev 0
2
1
0
−1
−2

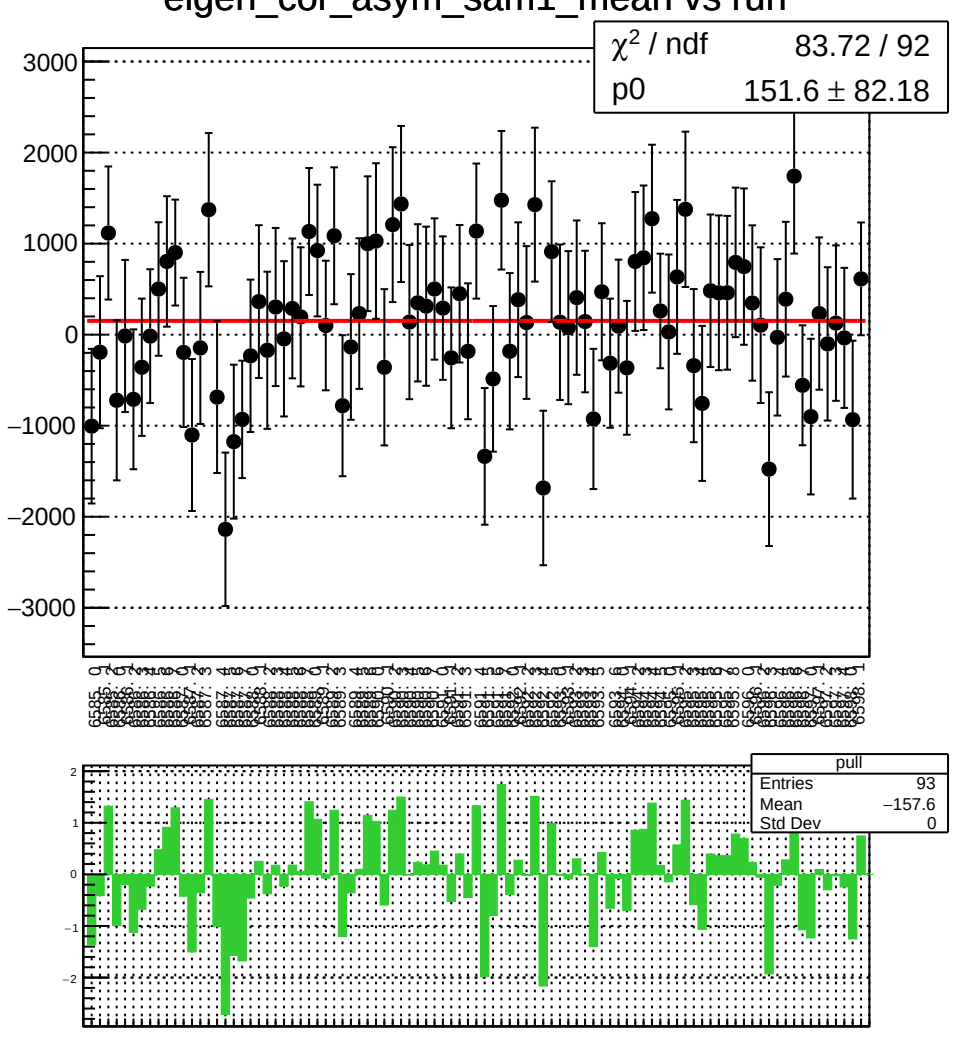

pull1D
Entries 93
Mean −0.01073
Std Dev 0.9488
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

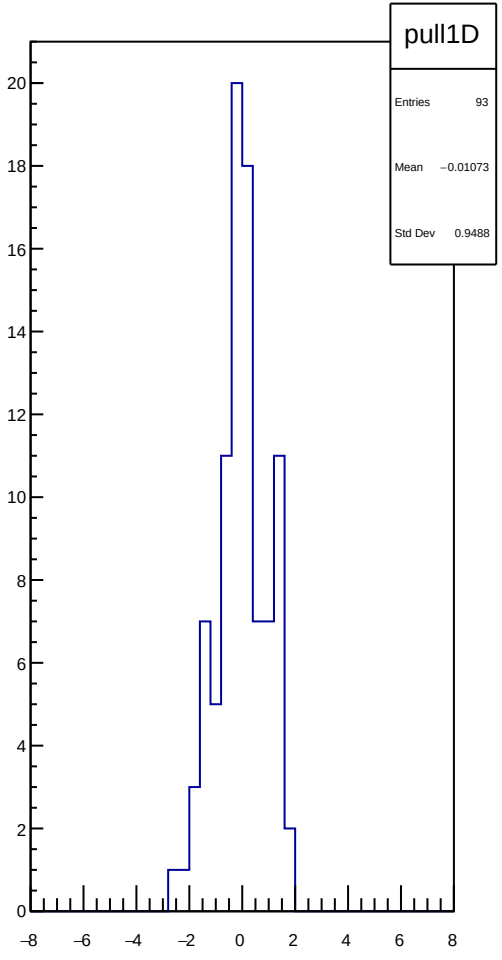

cor_asym_sam1_rms vs run
χ² / ndf 5889 / 92
p0 77.19 ± 0.05811
84
82
80
78
76
74
72
70
68
66

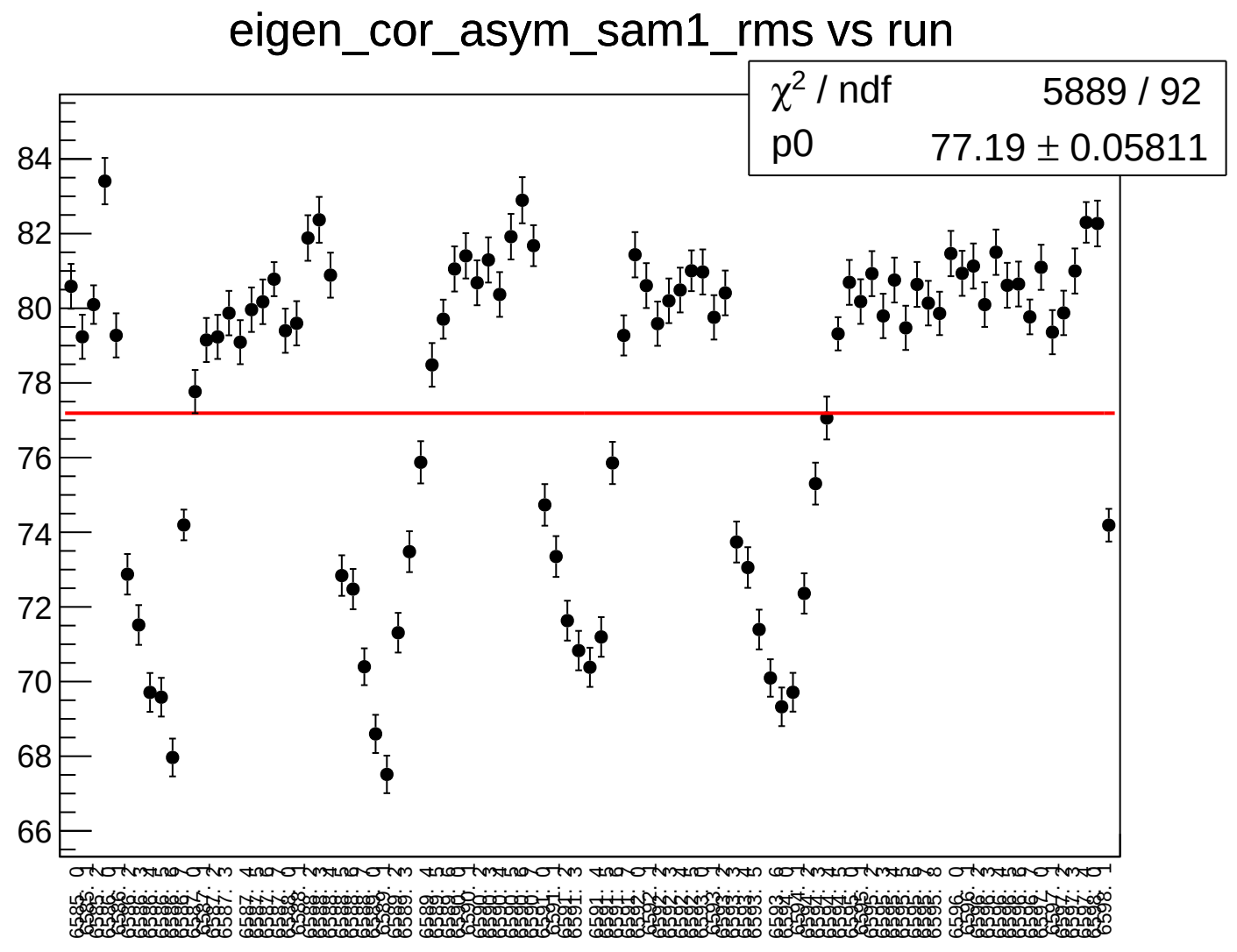

asym_sam1_cor_correction_mean vs run
χ² / ndf 122.5 / 92
p0 −30.54 ± 326.3
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −3511
Std Dev 0
3
2
1
0
−1
−2

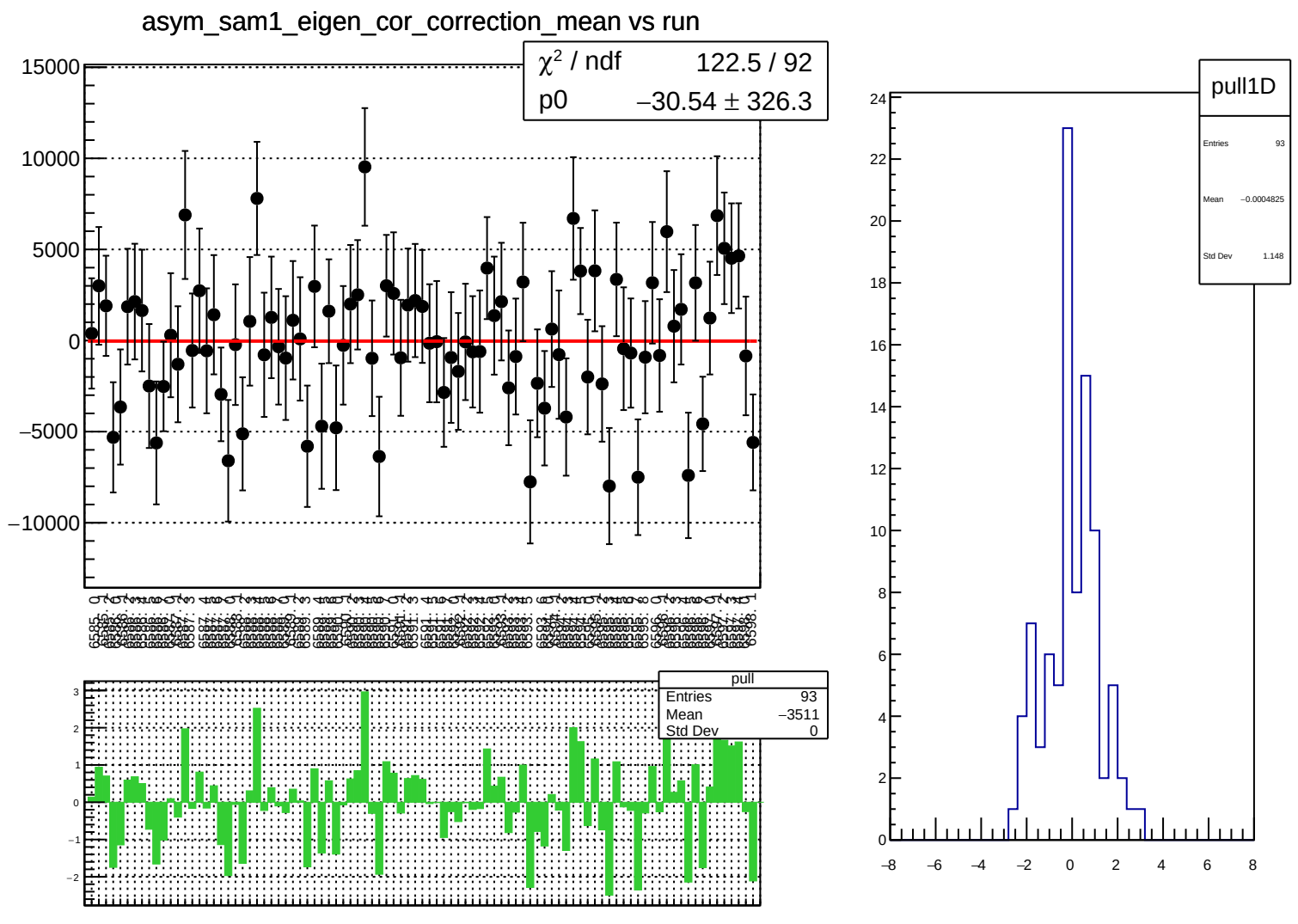

pull1D
Entries 93
Mean −0.0004825
Std Dev 1.148
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

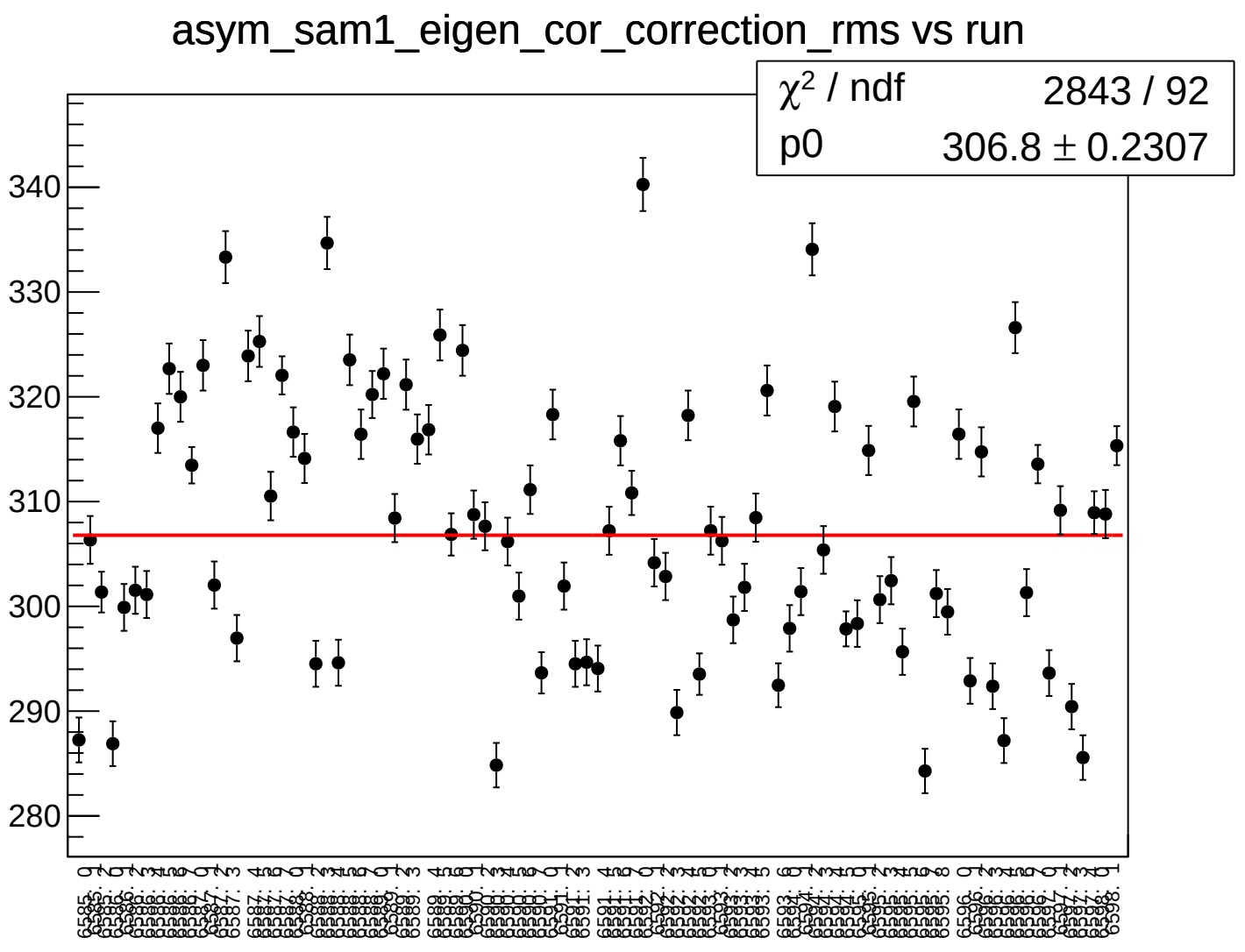

asym_sam1_cor_correction_rms vs run
χ² / ndf 2843 / 92
p0 306.8 ± 0.2307
340
330
320
310
300
290
280

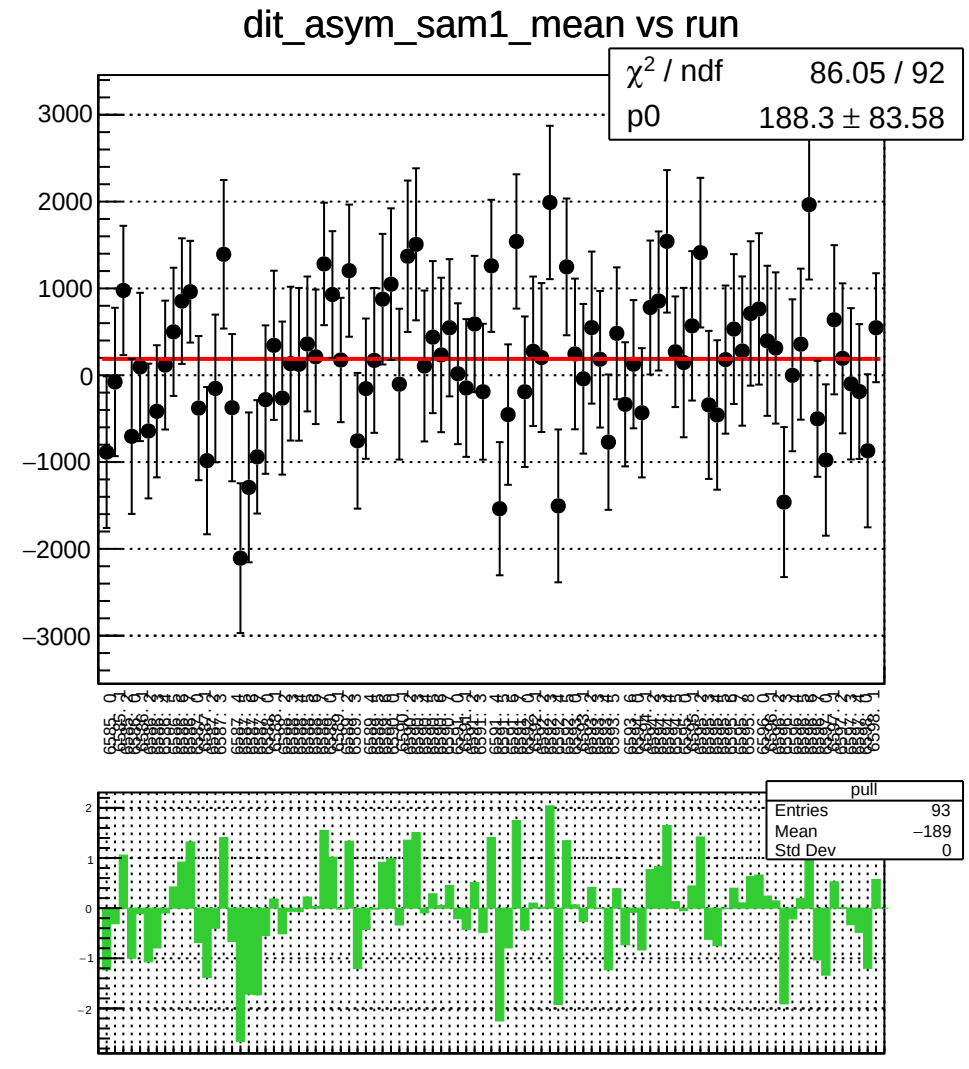

eigen_cor_asym_sam1_mean vs run
χ² / ndf 83.72 / 92
p0 151.6 ± 82.18
pull
Entries 93
Mean −157.6
Std Dev 0

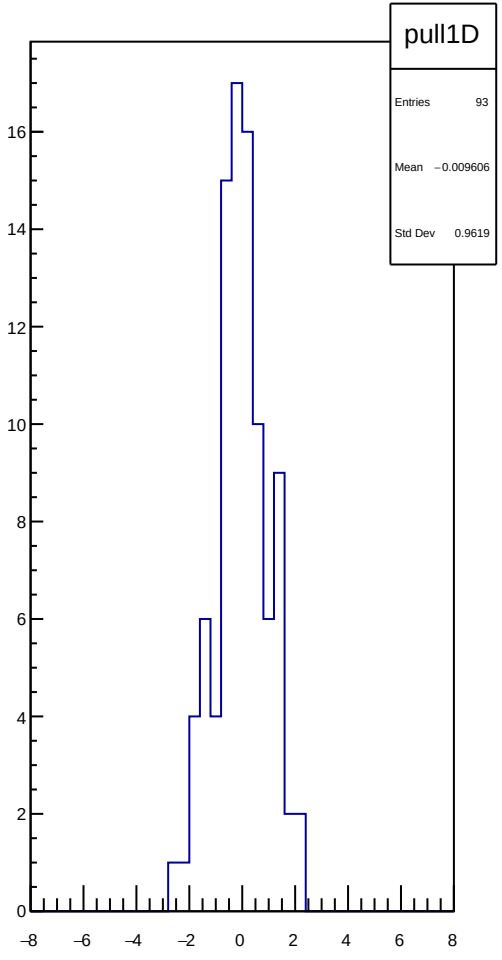

pull1D
Entries 93
Mean −0.01073
Std Dev 0.9488

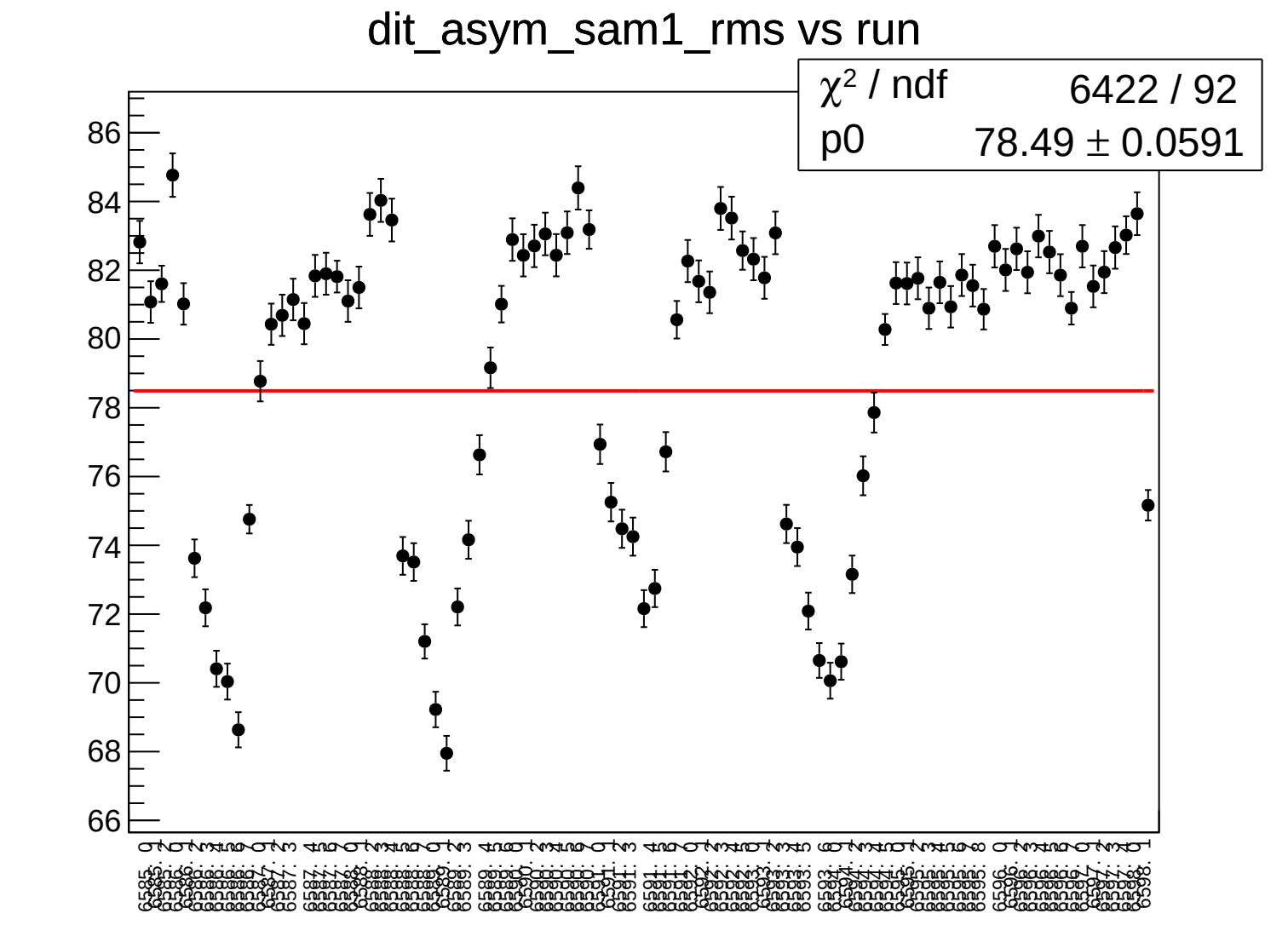

eigen_cor_asym_sam1_rms vs run
χ² / ndf 5889 / 92
p0 77.19 ± 0.05811
84
82
80
78
76
74
72
70
68
66

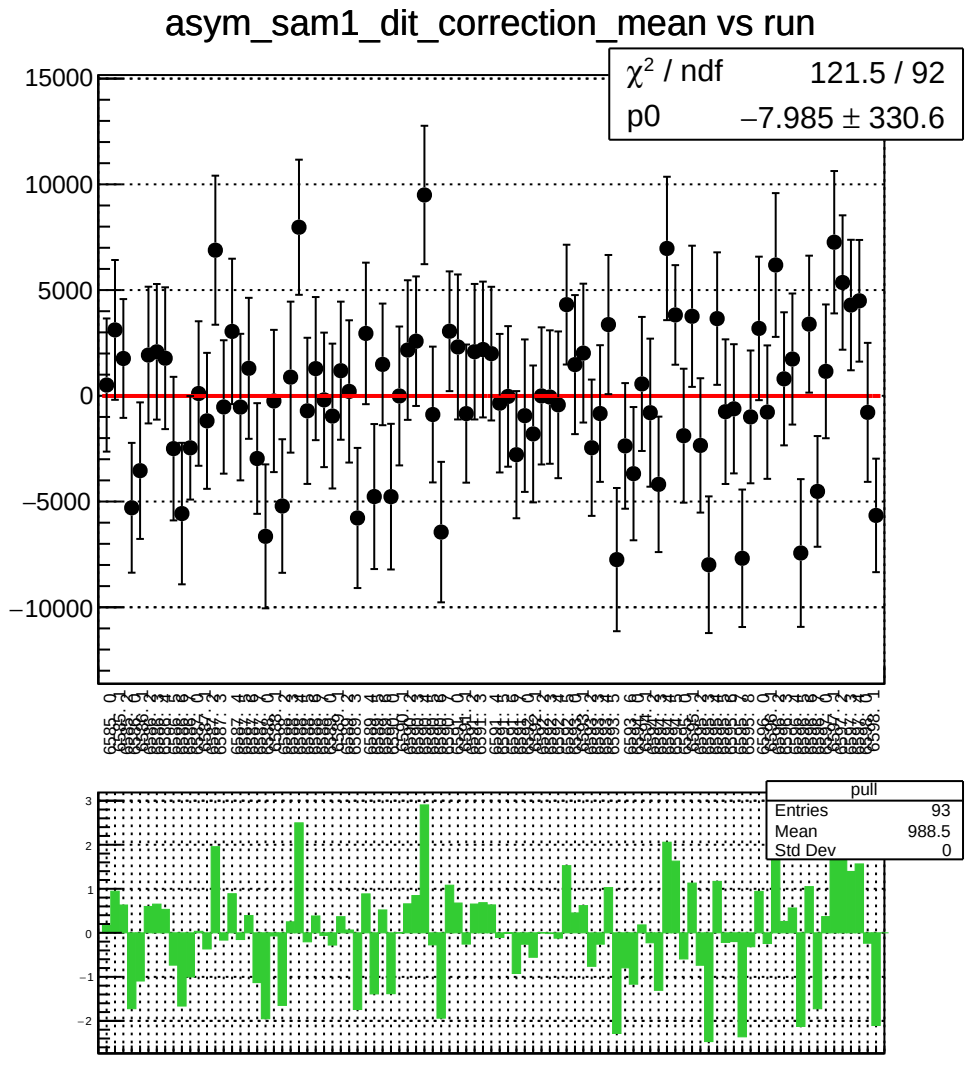

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 122.5 / 92
p0 −30.54 ± 326.3
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −3511
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0004825
Std Dev 1.148
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

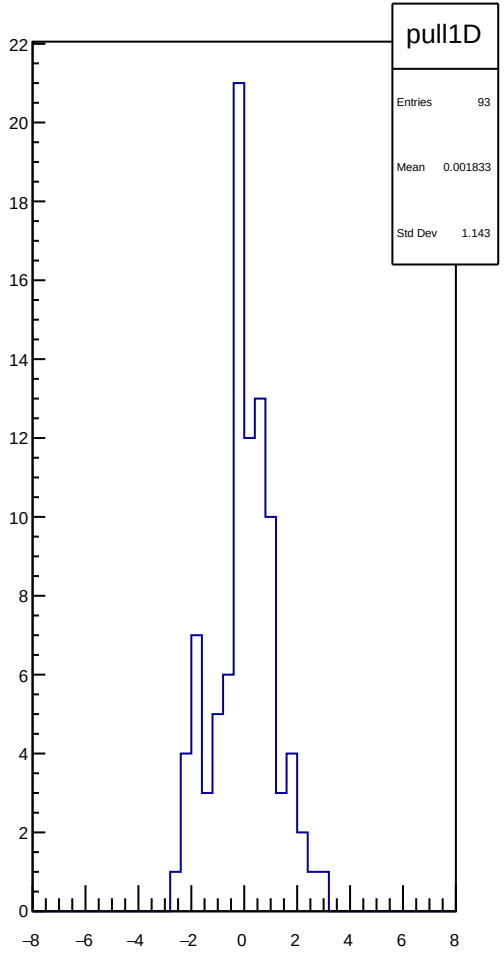

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2843 / 92
p0 306.8 ± 0.2307
340
330
320
310
300
290
280

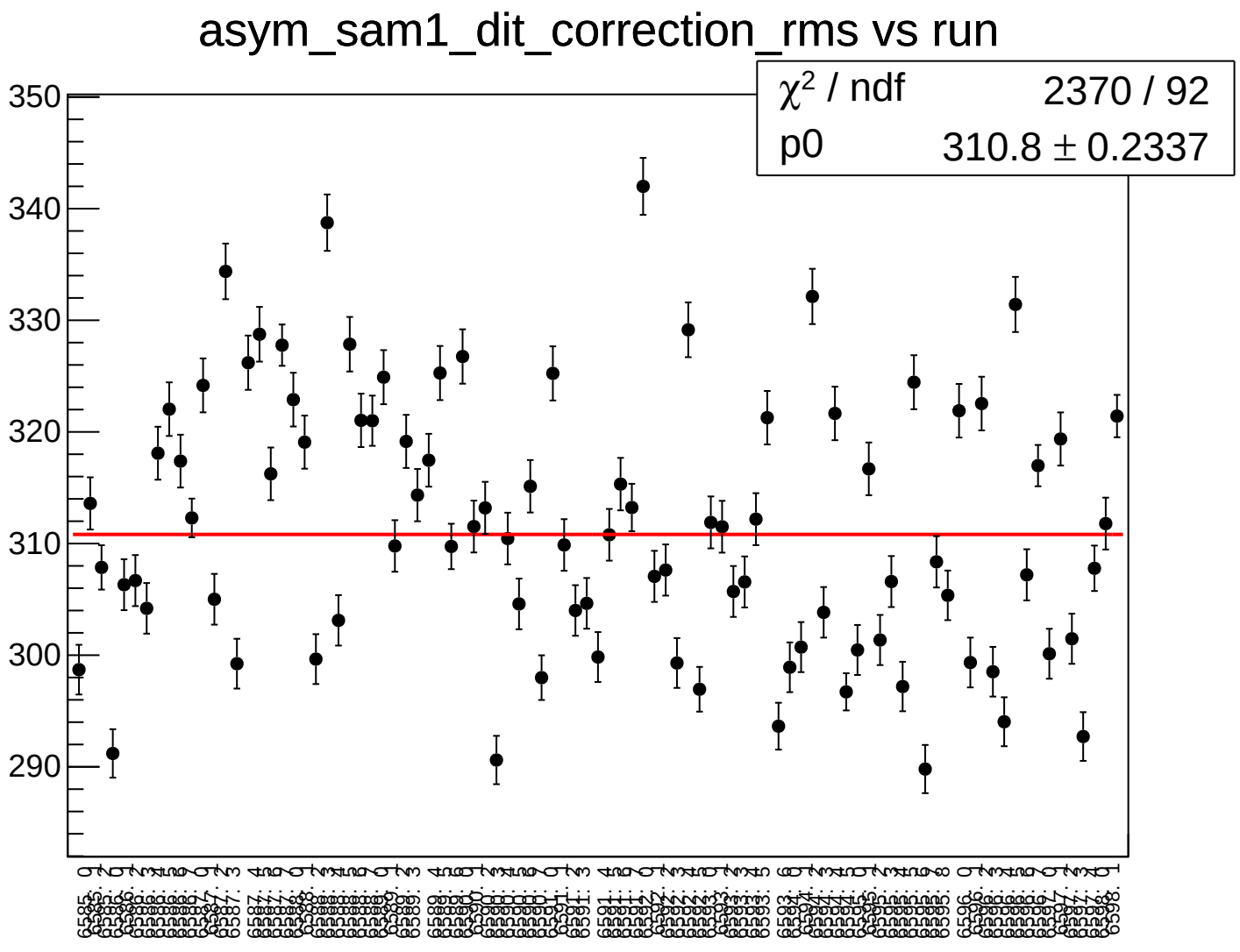

dit_asym_sam1_mean vs run
χ² / ndf 86.05 / 92
p0 188.3 ± 83.58
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −189
Std Dev 0
2
1
0
−1
−2

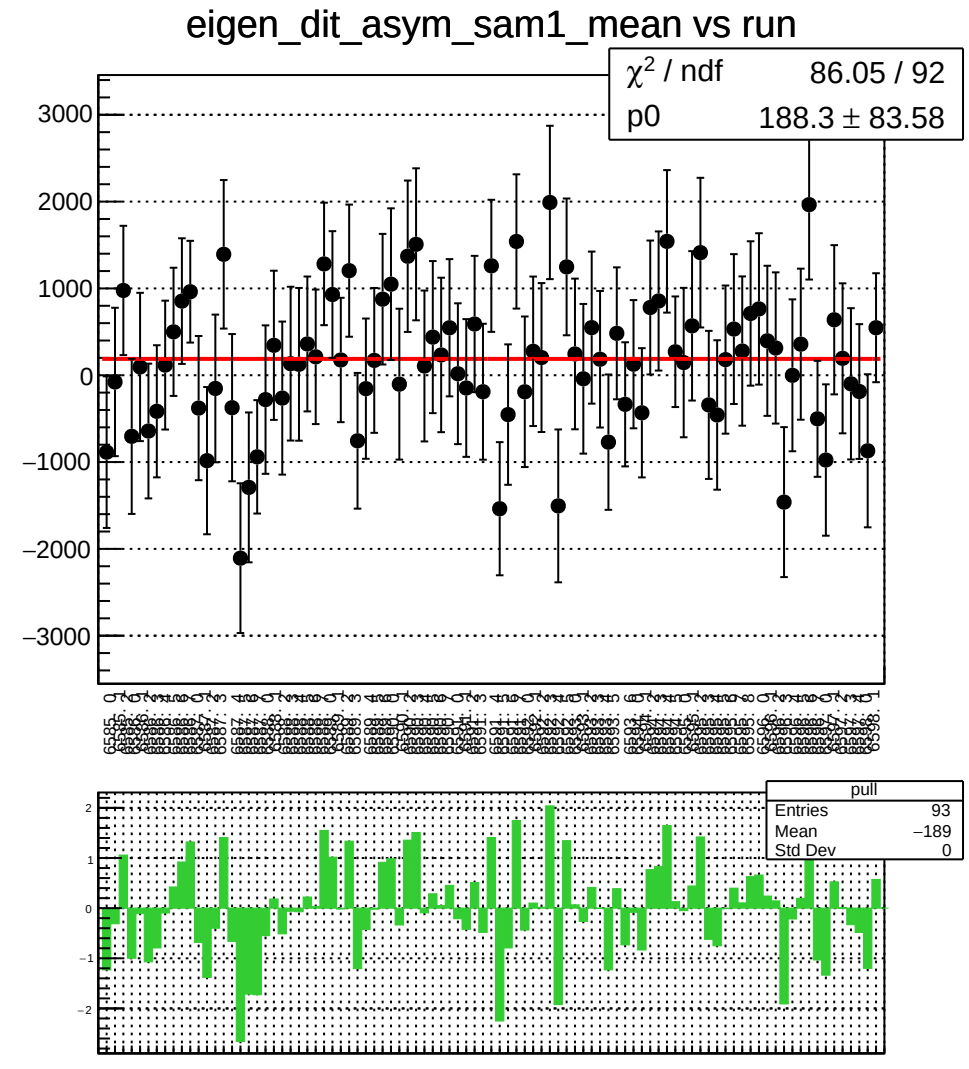

pull1D
Entries 93
Mean −0.009606
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

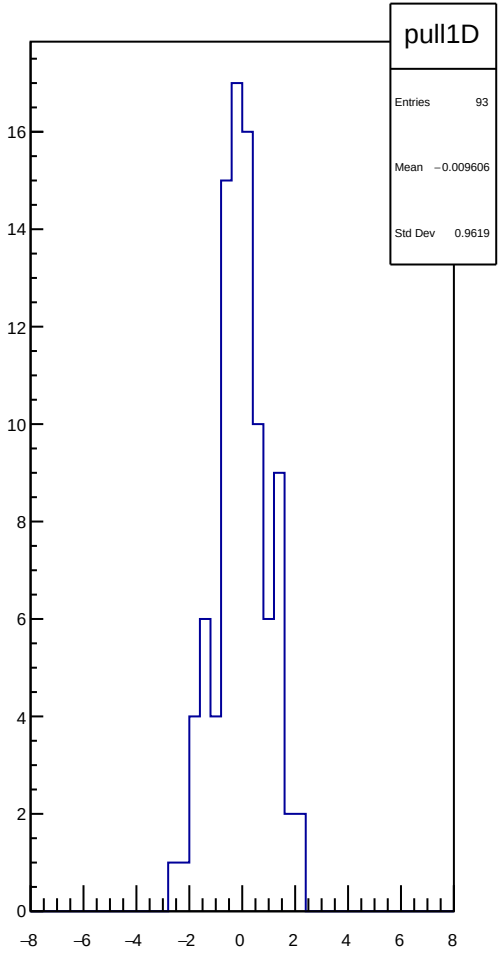

dit_asym_sam1_rms vs run
χ² / ndf 6422 / 92
p0 78.49 ± 0.0591
86
84
82
80
78
76
74
72
70
68
66

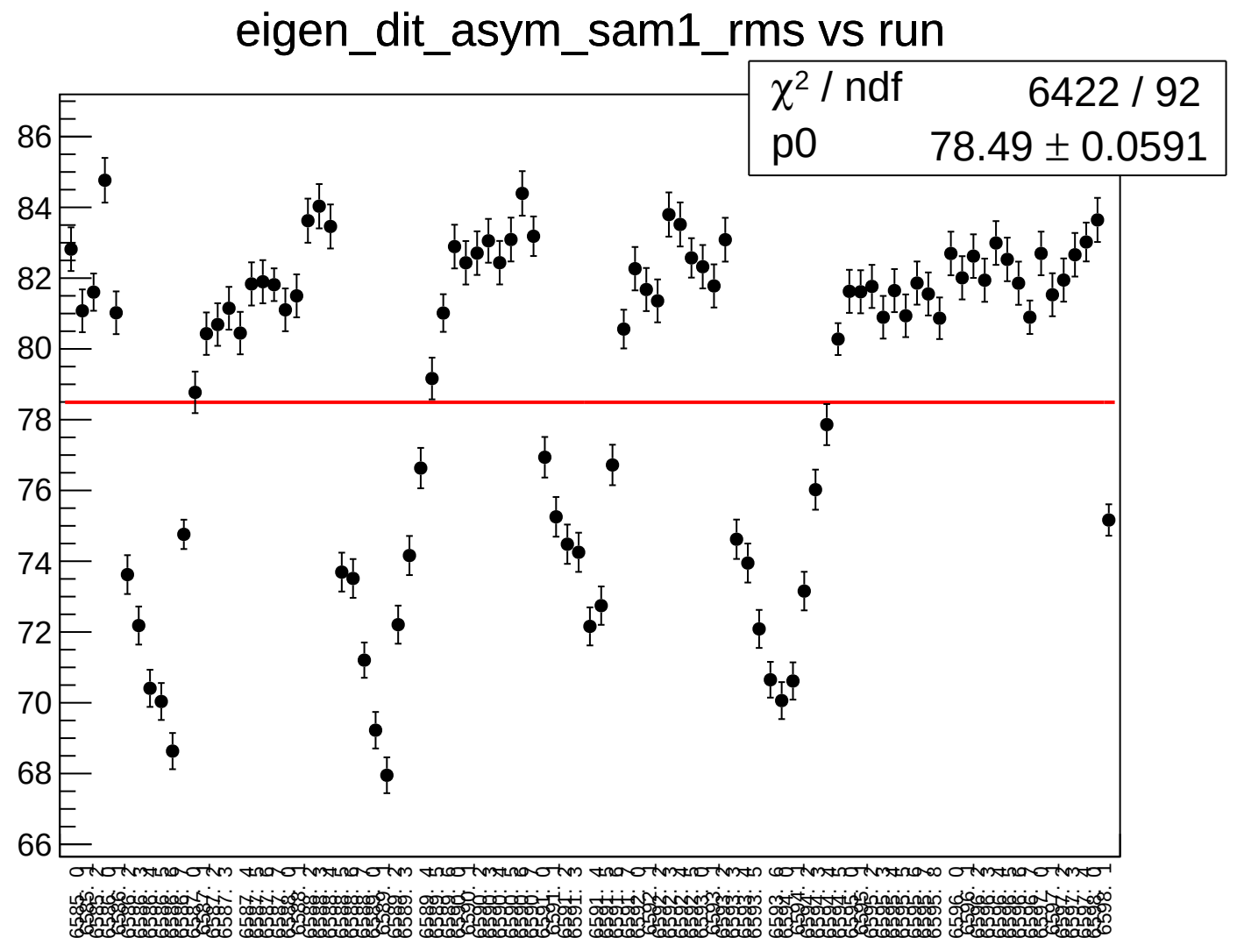

asym_sam1_dit_correction_mean vs run
χ² / ndf 121.5 / 92
p0 −7.985 ± 330.6
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 988.5
Std Dev 0
3
2
1
0
−1
−2

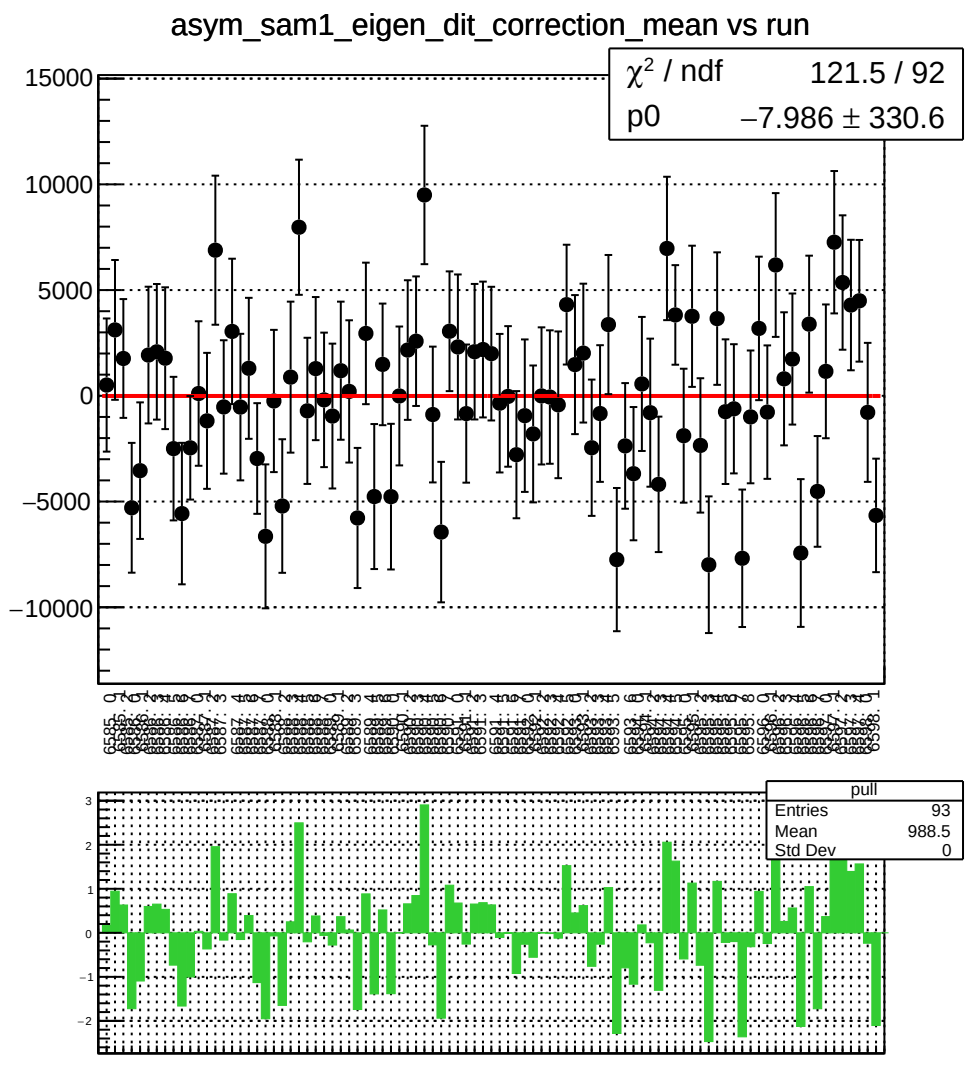

pull1D
Entries 93
Mean 0.001833
Std Dev 1.143
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

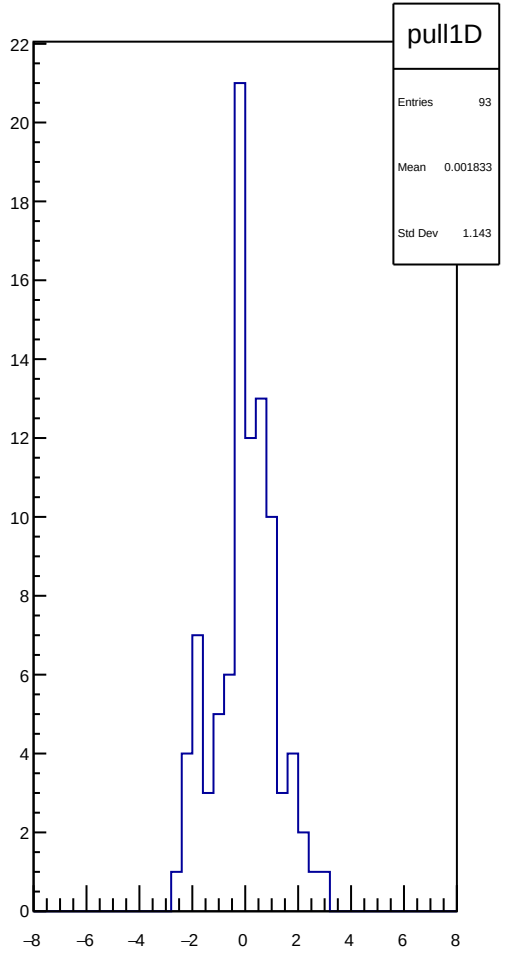

asym_sam1_dit_correction_rms vs run
χ² / ndf 2370 / 92
p0 310.8 ± 0.2337
350
340
330
320
310
300
290

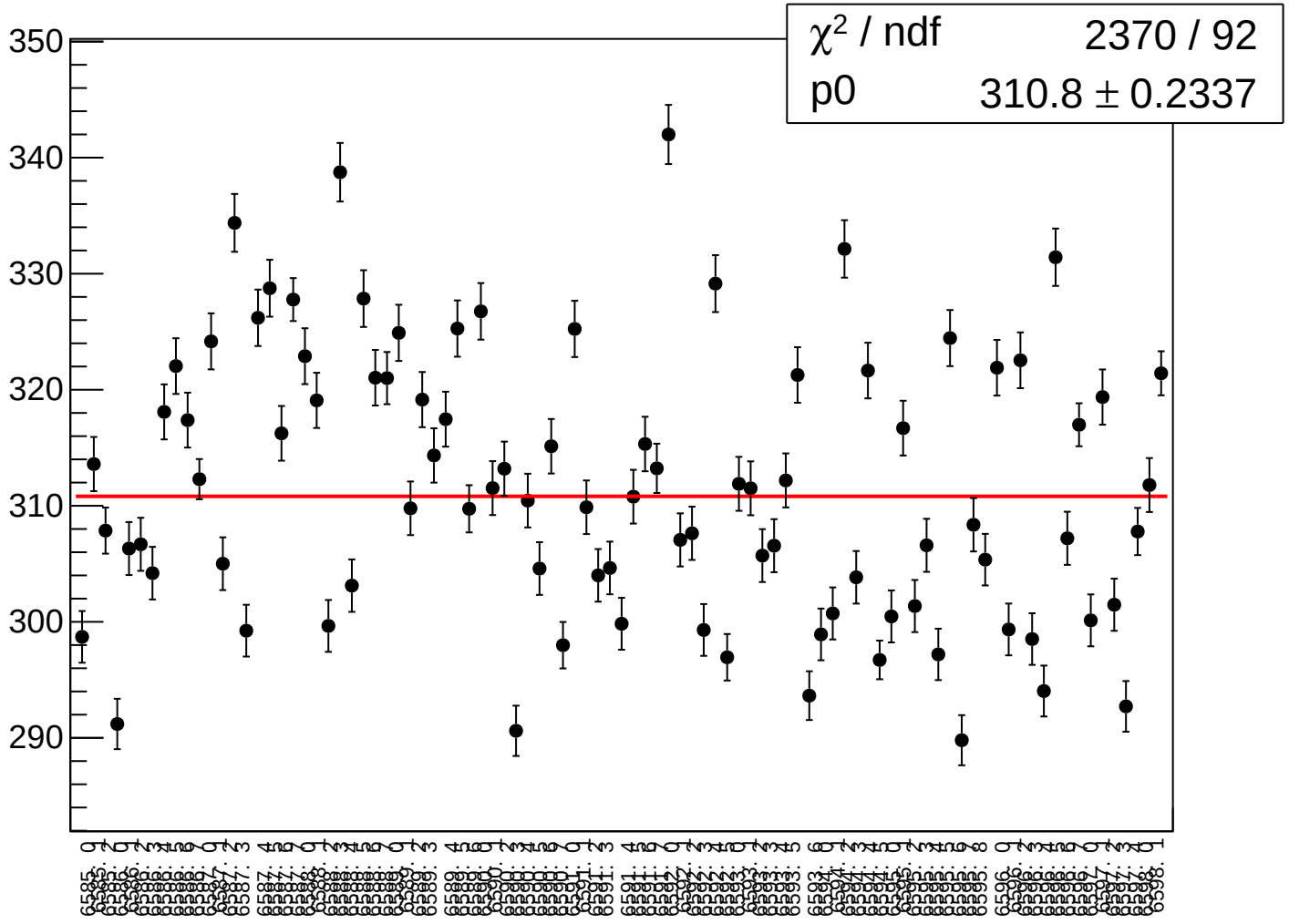

eigen_dit_asym_sam1_mean vs run
χ² / ndf 86.05 / 92
p0 188.3 ± 83.58
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −189
Std Dev 0
2
1
0
−1
−2

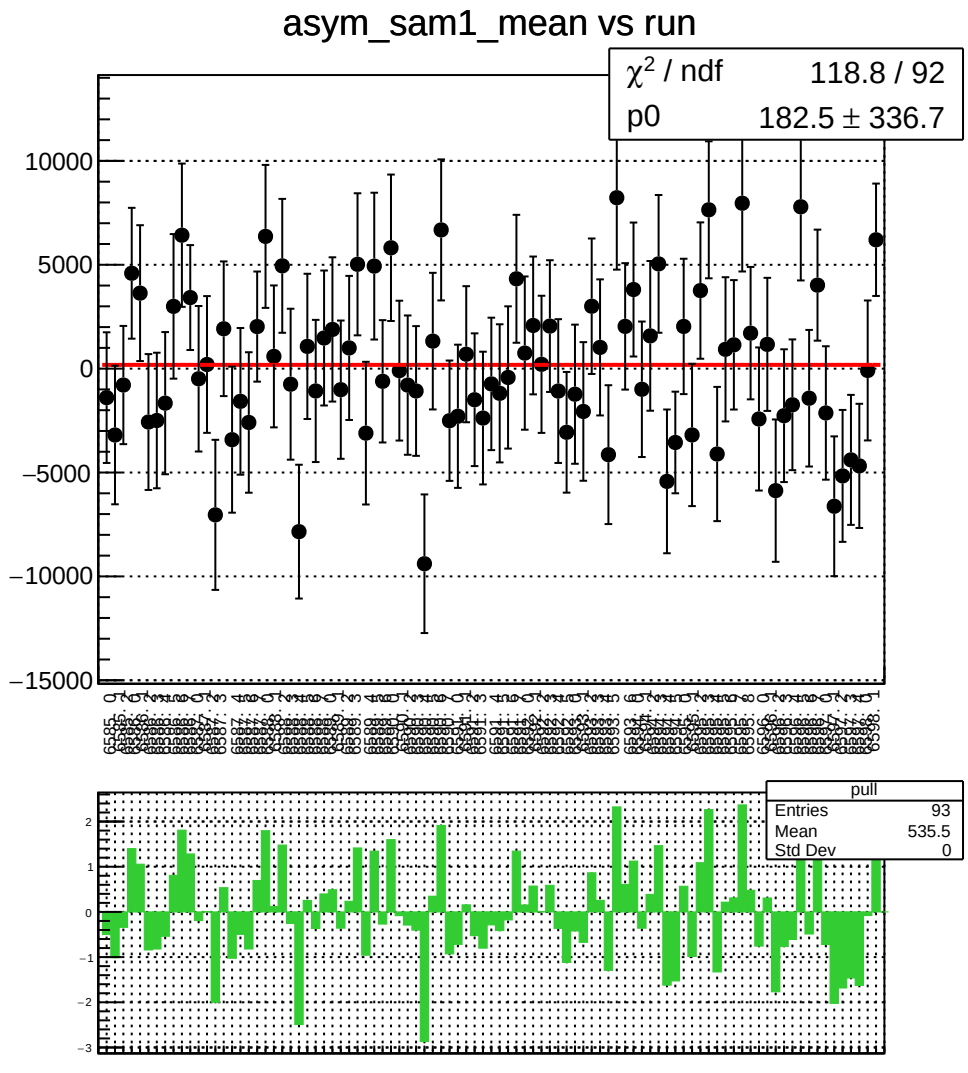

pull1D
Entries 93
Mean −0.009606
Std Dev 0.9619
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

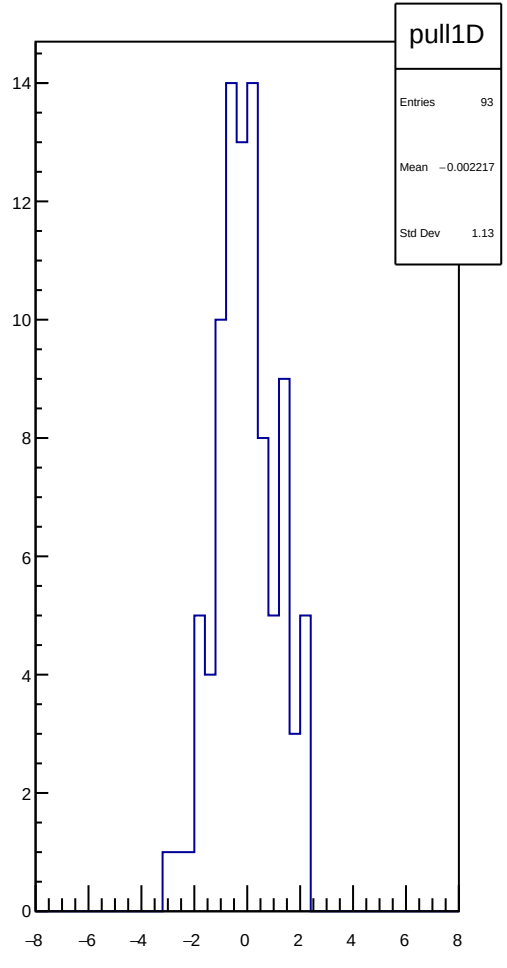

eigen_dit_asym_sam1_rms vs run
χ² / ndf 6422 / 92
p0 78.49 ± 0.0591
86
84
82
80
78
76
74
72
70
68
66

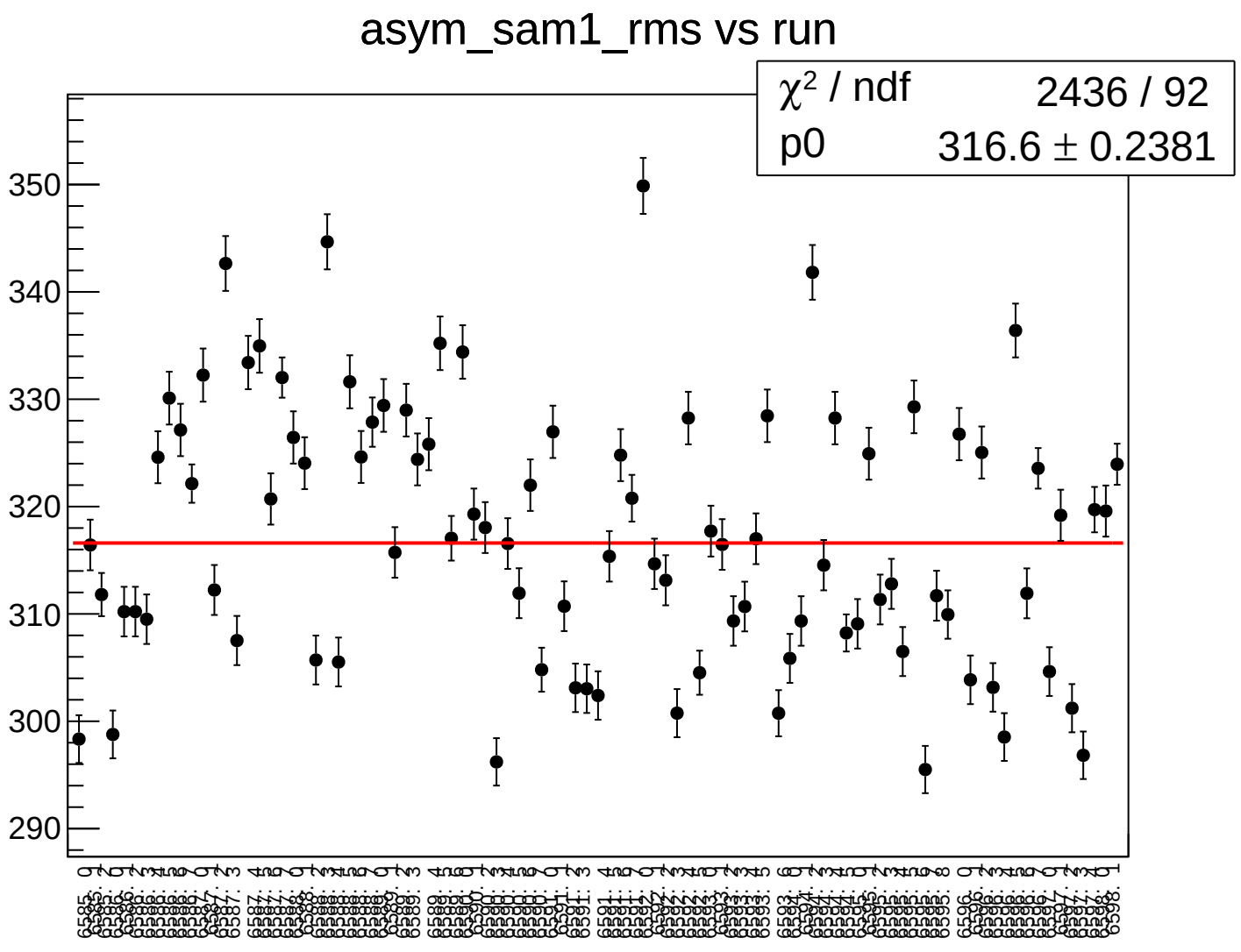

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 121.5 / 92
p0 −7.986 ± 330.6
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 988.5
Std Dev 0
3
2
1
0
−1
−2

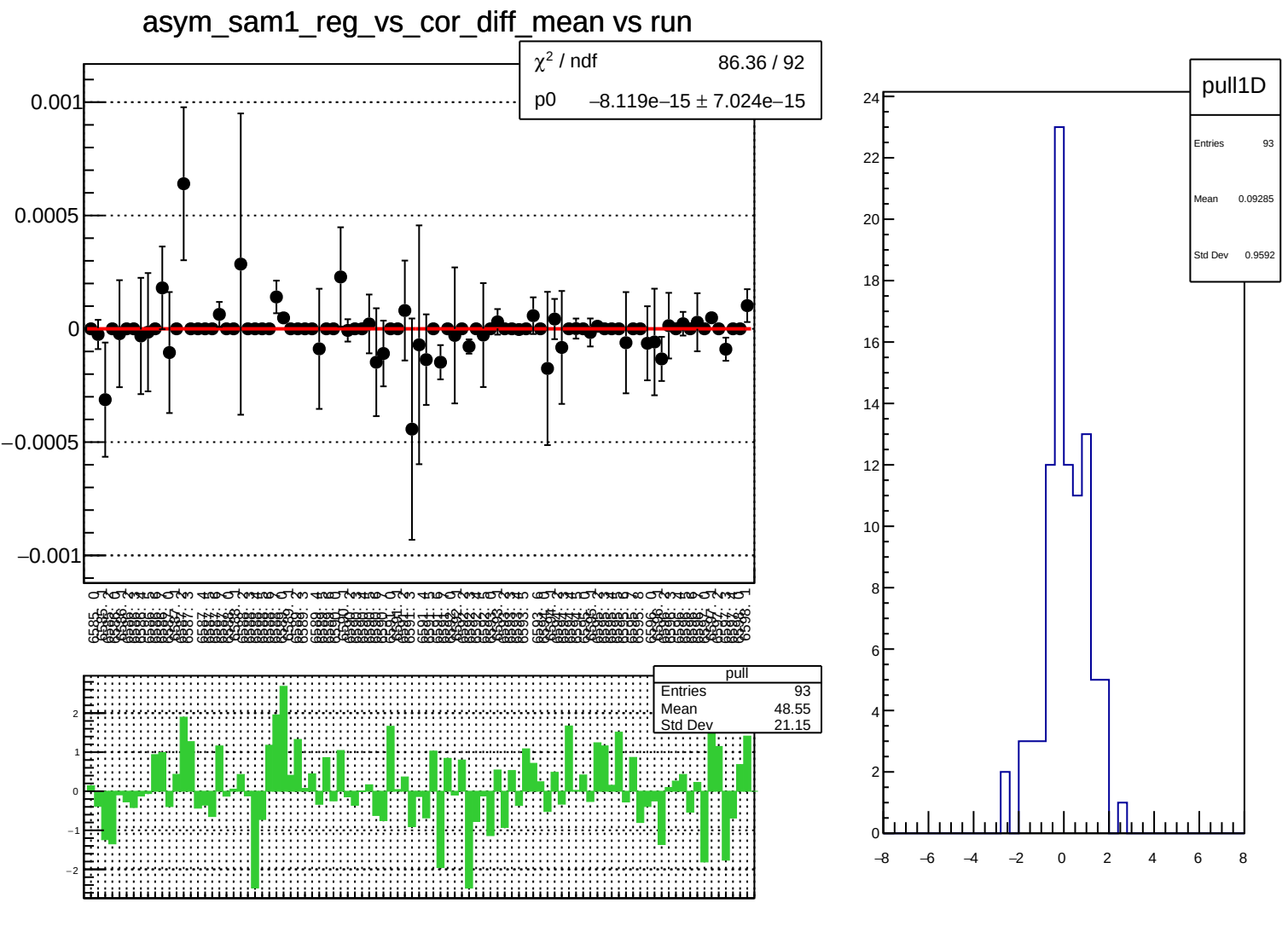

pull1D
Entries 93
Mean 0.001833
Std Dev 1.143
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

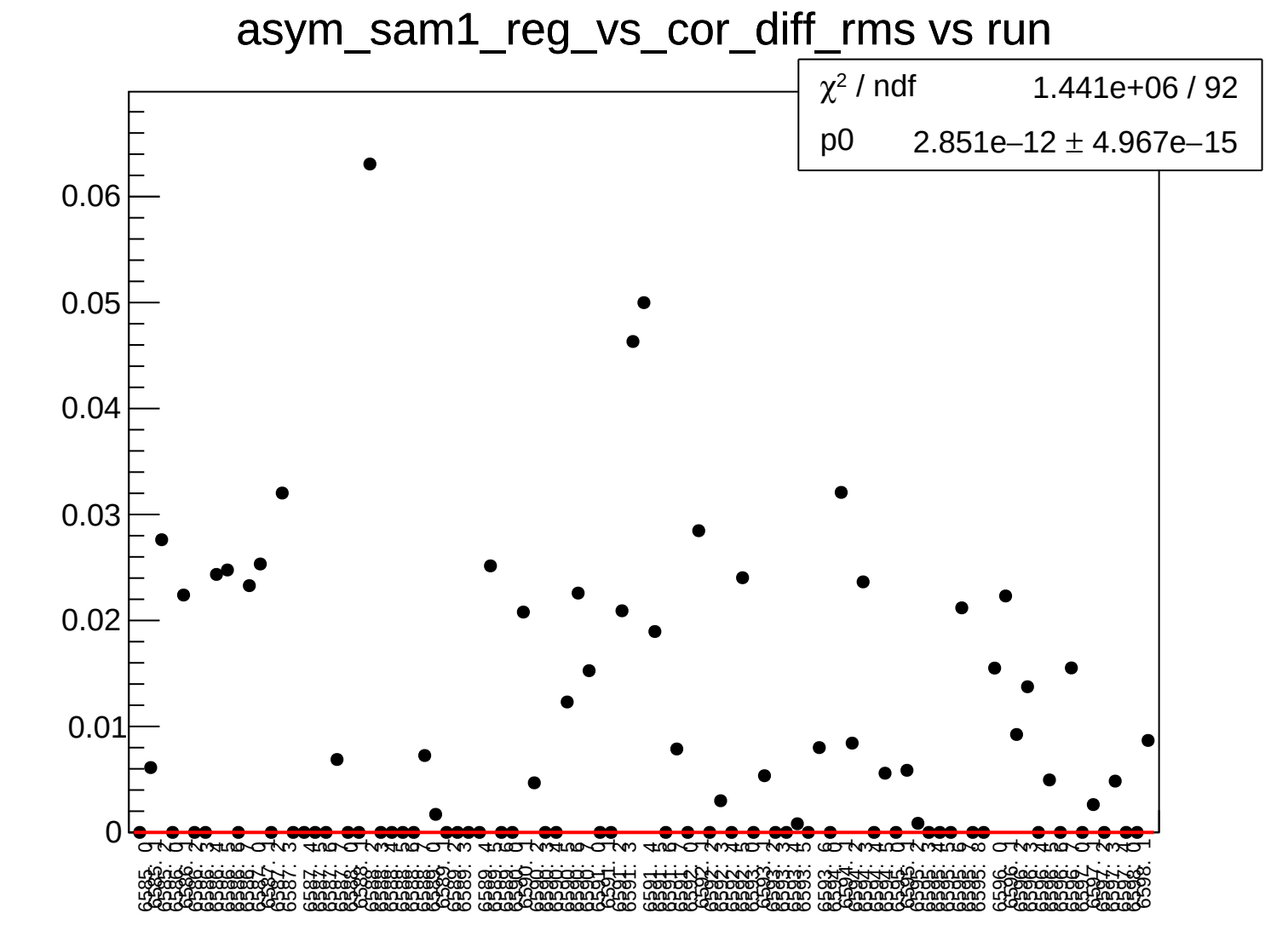

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2370 / 92
p0 310.8 ± 0.2337
350
340
330
320
310
300
290

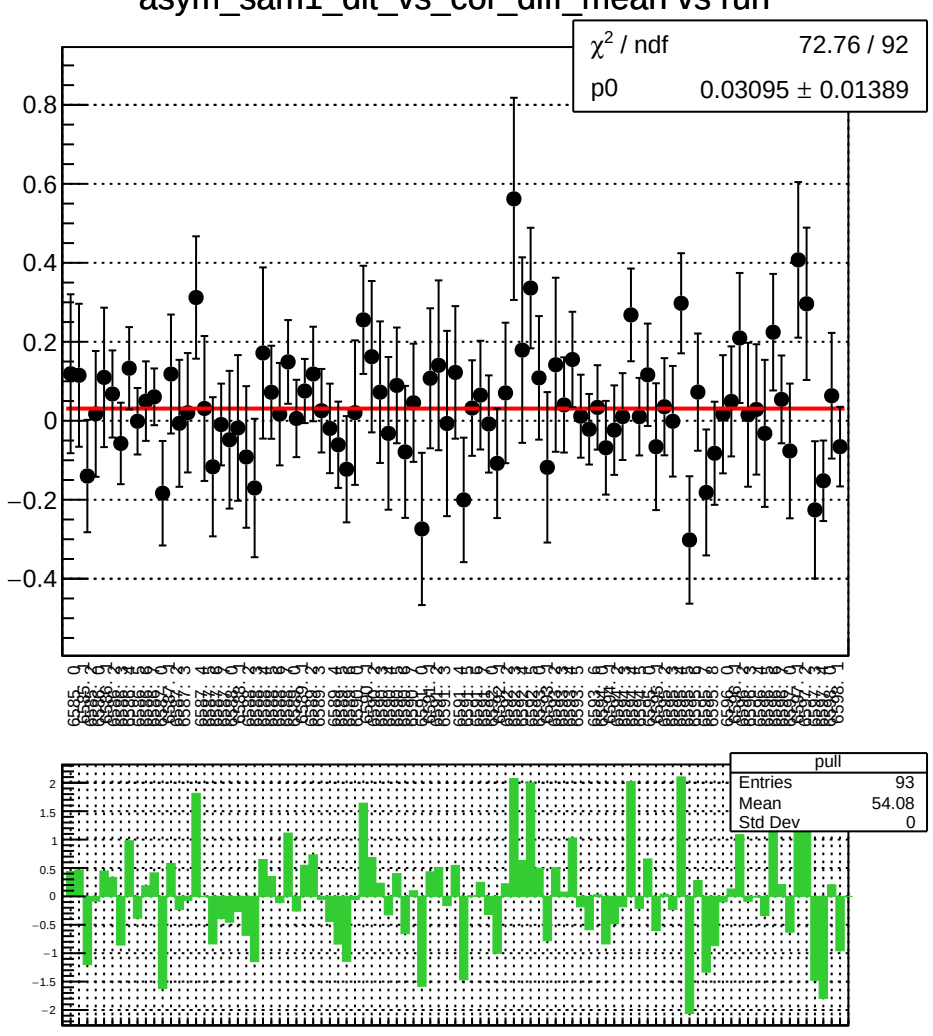

asym_sam1_mean vs run
χ² / ndf 118.8 / 92
p0 182.5 ± 336.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 535.5
Std Dev 0
2
1
0
−1
−2
−3

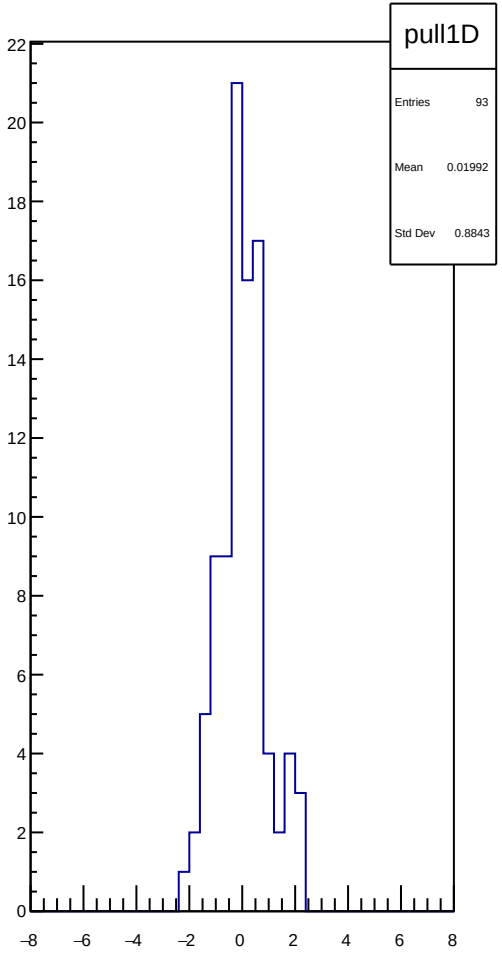

pull1D
Entries 93
Mean −0.002217
Std Dev 1.13
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

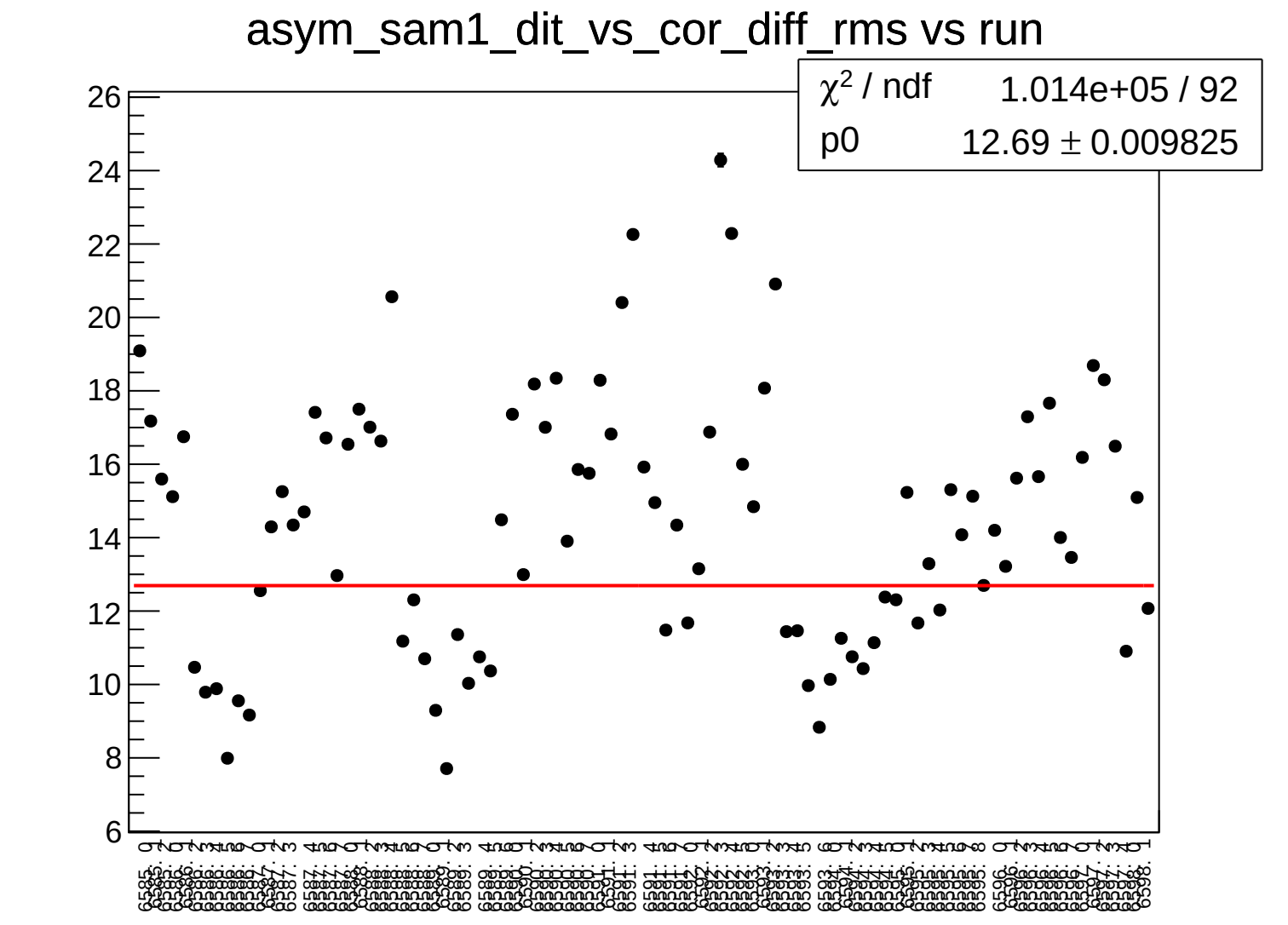

asym_sam1_rms vs run
χ² / ndf 2436 / 92
p0 316.6 ± 0.2381
350
340
330
320
310
300
290

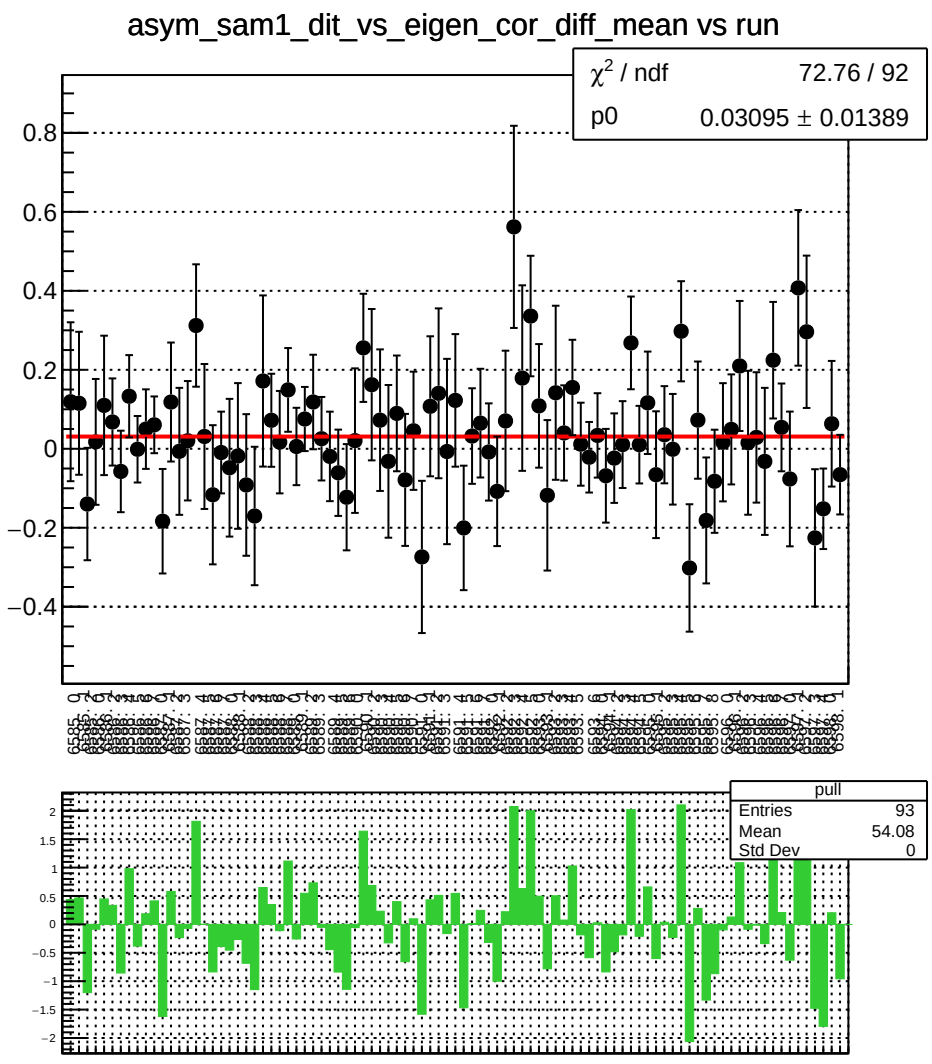

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 86.36 / 92
p0 −8.119e−15 ± 7.024e−15
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 48.55
Std Dev 21.15
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.09285
Std Dev 0.9592
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

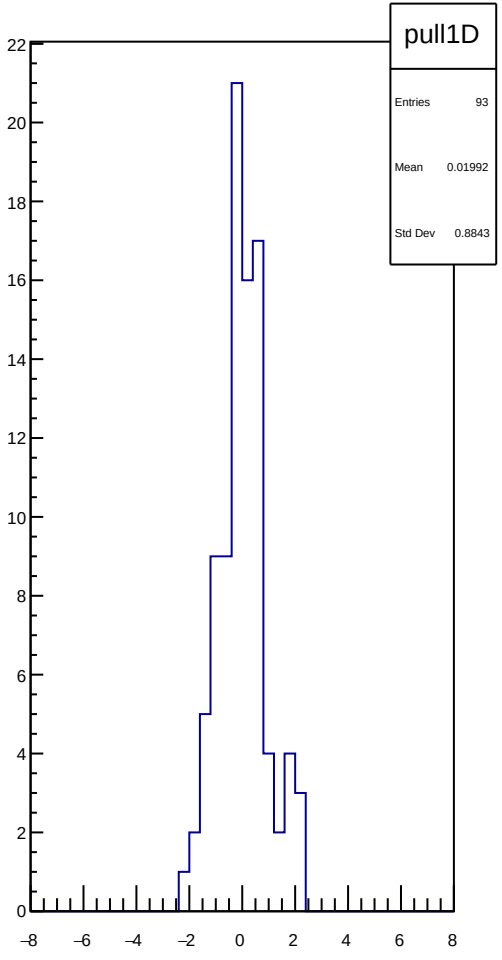

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.441e+06 / 92
p0 2.851e−12 ± 4.967e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

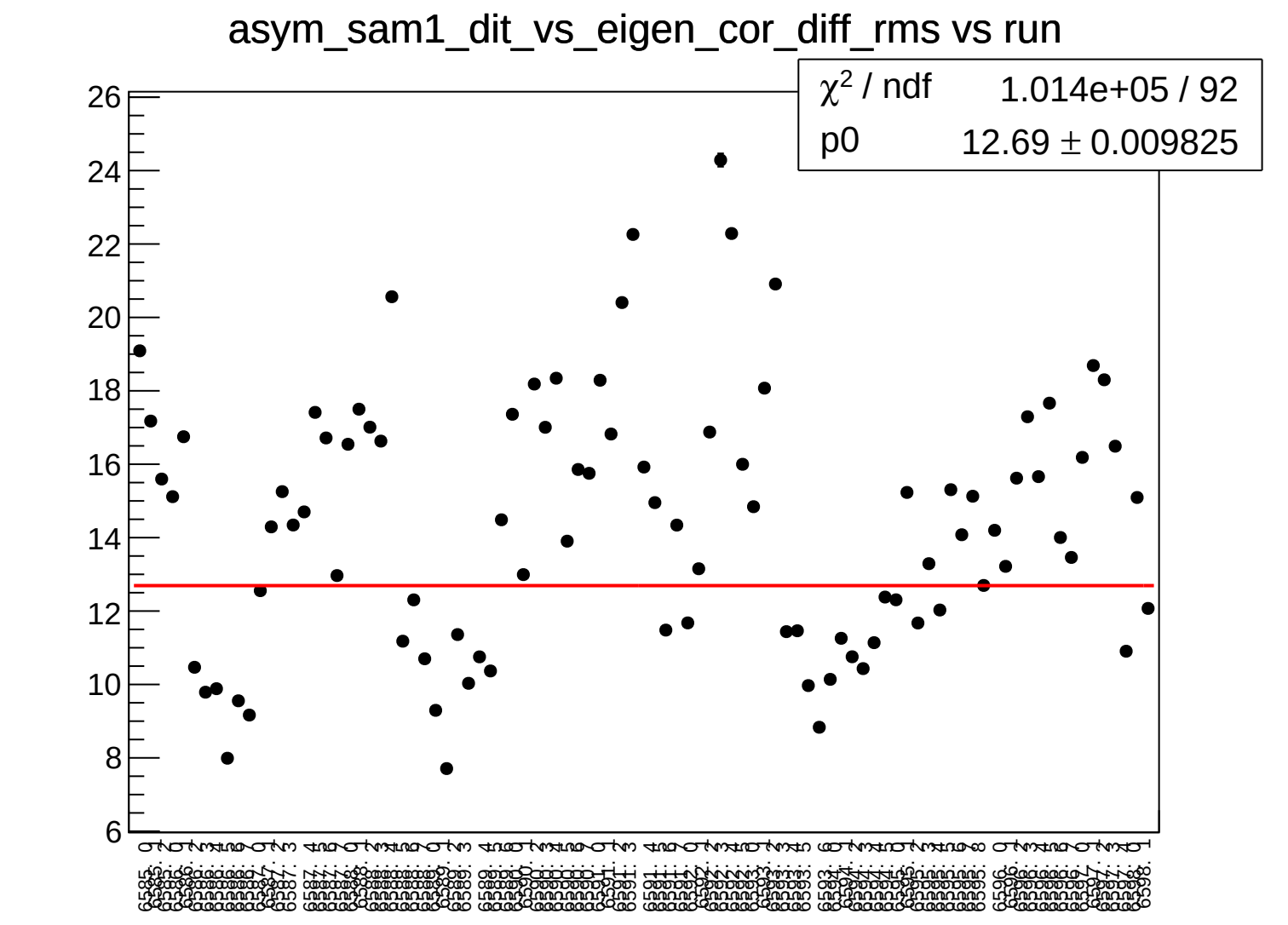

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 72.76 / 92
p0 0.03095 ± 0.01389
pull
Entries 93
Mean 54.08
Std Dev 0

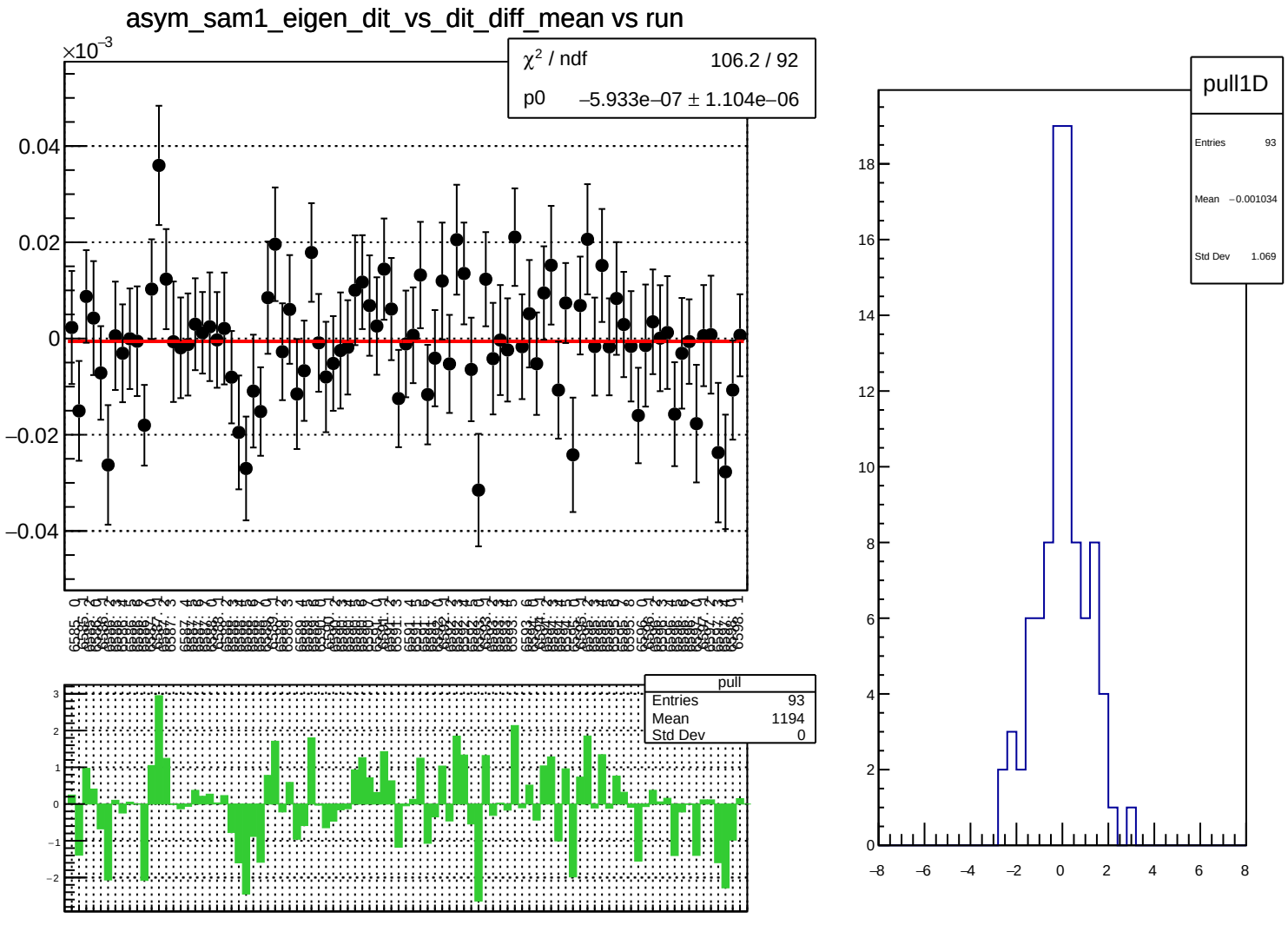

pull1D
Entries 93
Mean 0.01992
Std Dev 0.8843

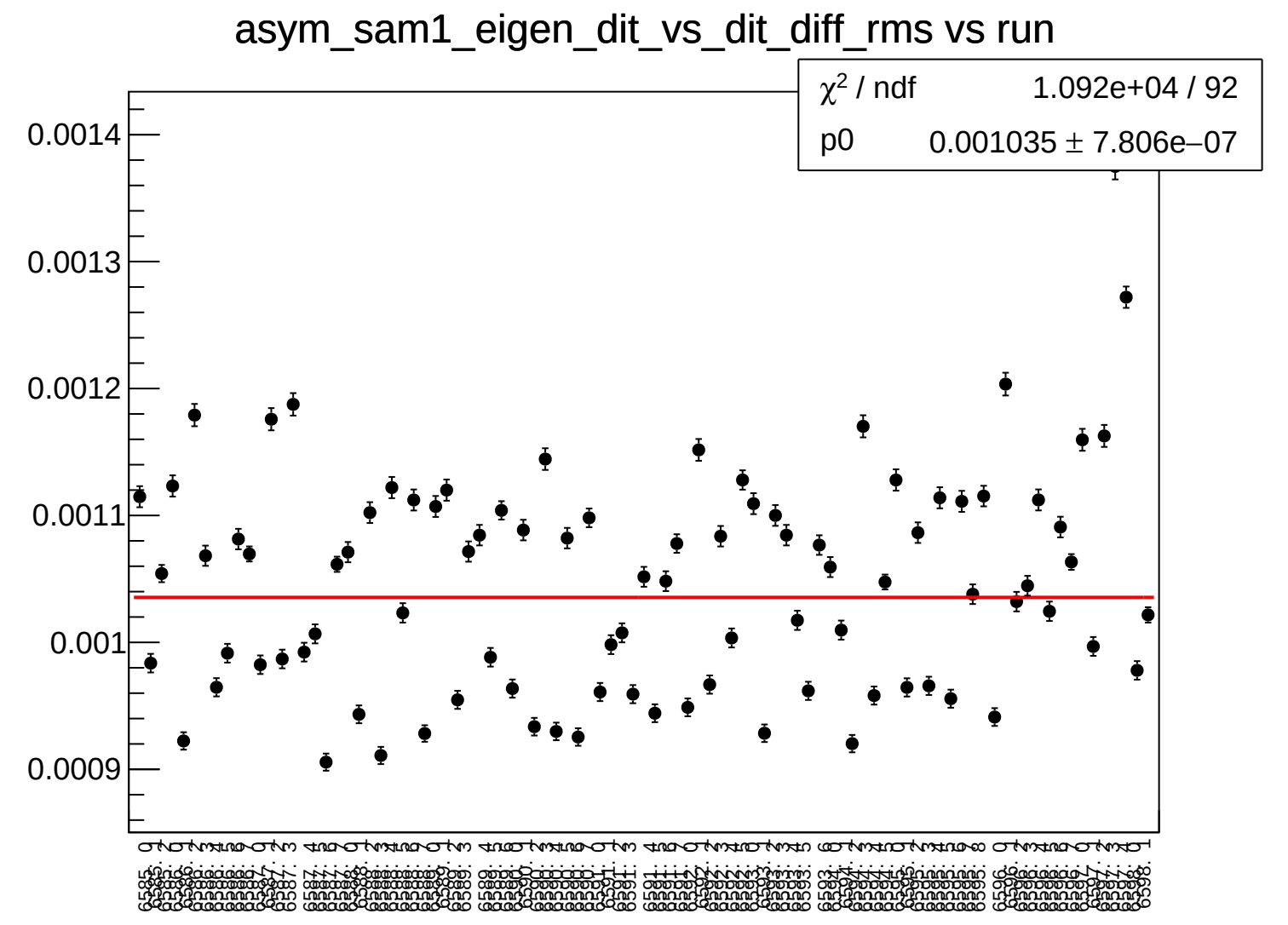

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 92
p0 12.69 ± 0.009825
26
24
22
20
18
16
14
12
10
8
6

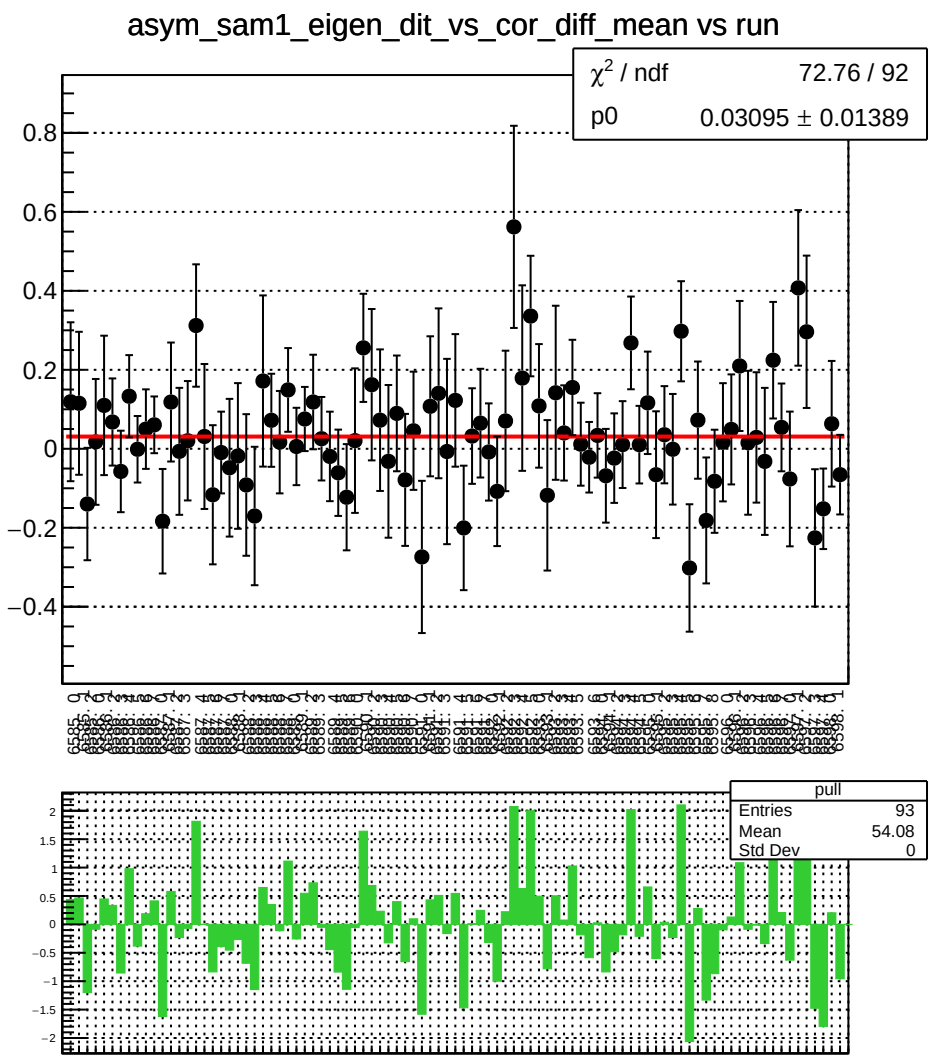

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.76 / 92
p0 0.03095 ± 0.01389
pull
Entries 93
Mean 54.08
Std Dev 0

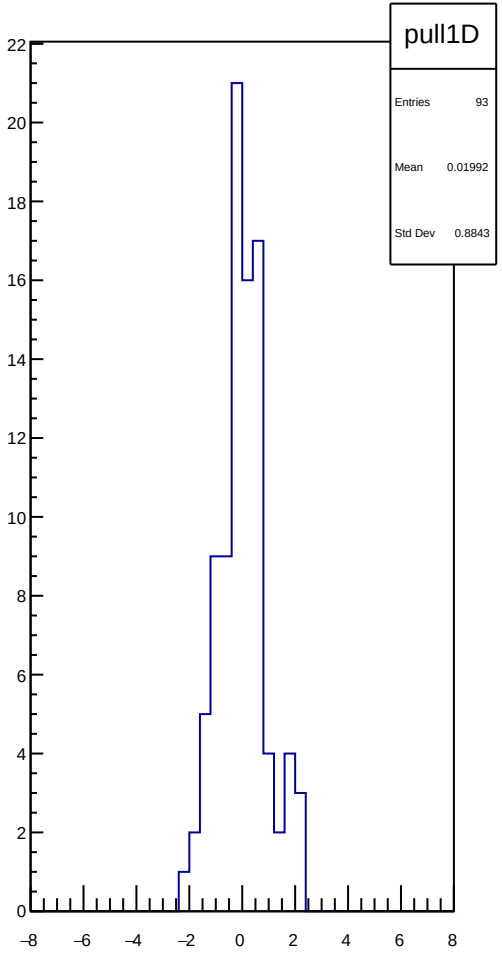

pull1D
Entries 93
Mean 0.01992
Std Dev 0.8843

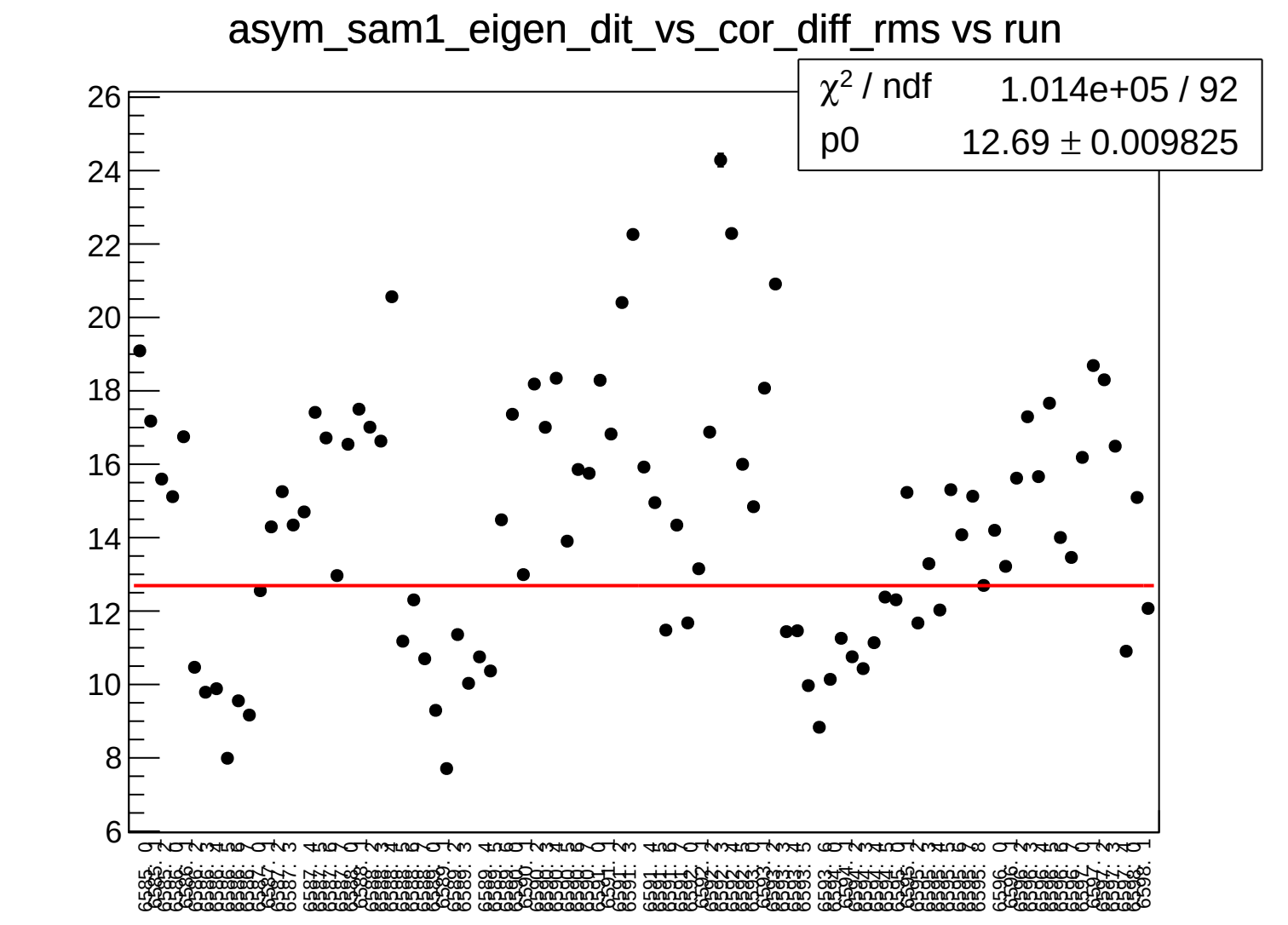

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 92
p0 12.69 ± 0.009825
26
24
22
20
18
16
14
12
10
8
6

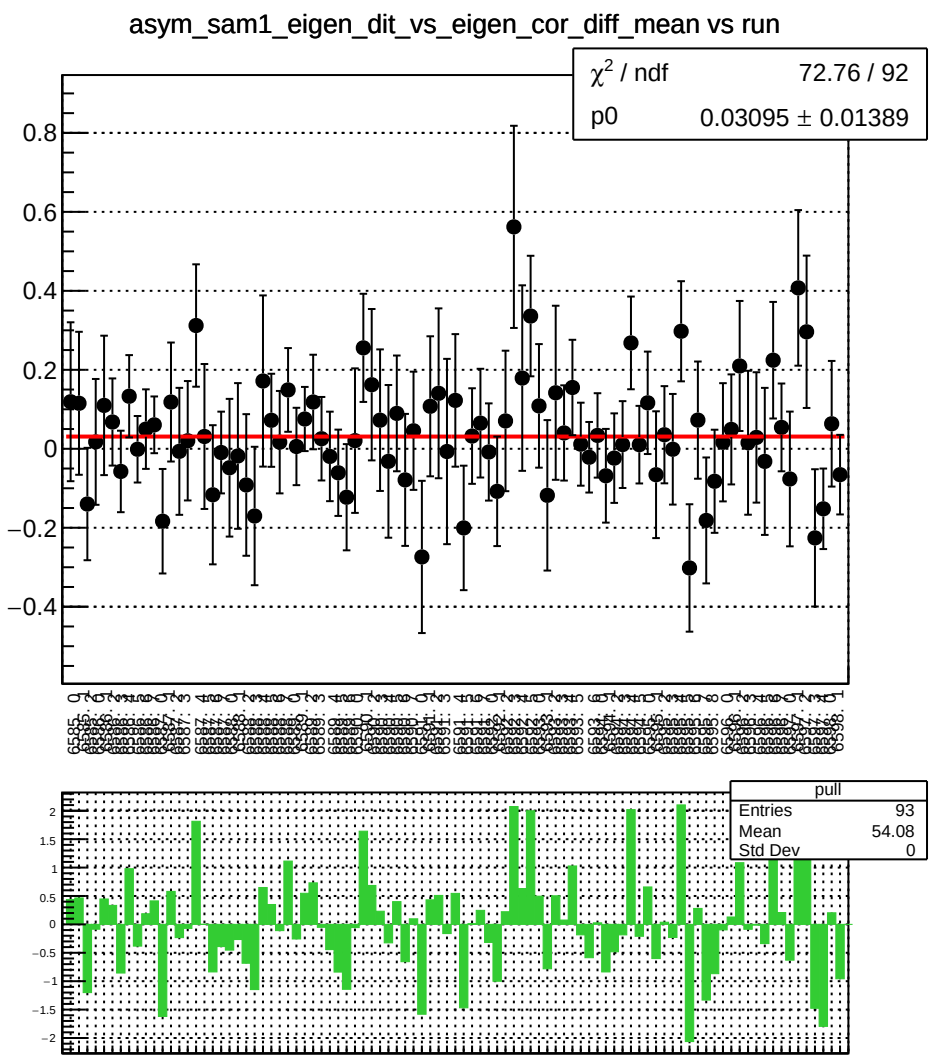

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.2 / 92
p0 −5.933e−07 ± 1.104e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean 1194
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001034
Std Dev 1.069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

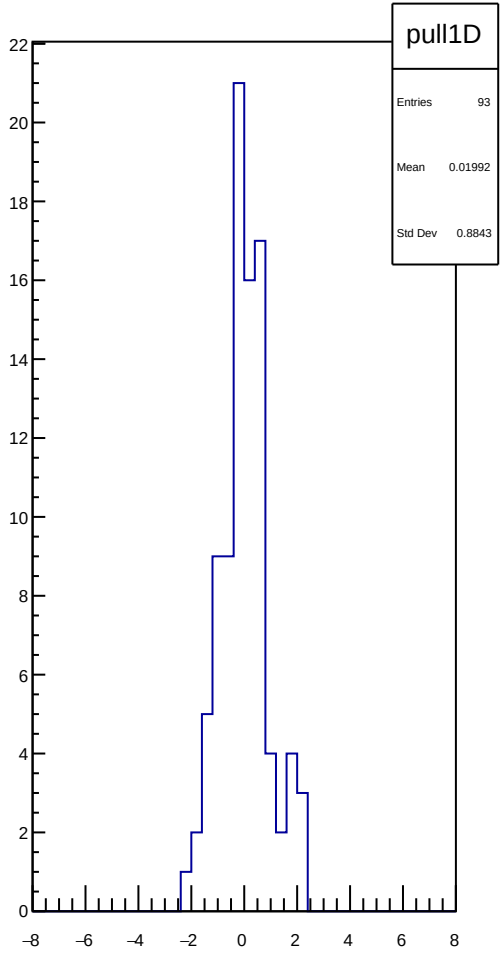

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.092e+04 / 92
p0 0.001035 ± 7.806e−07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

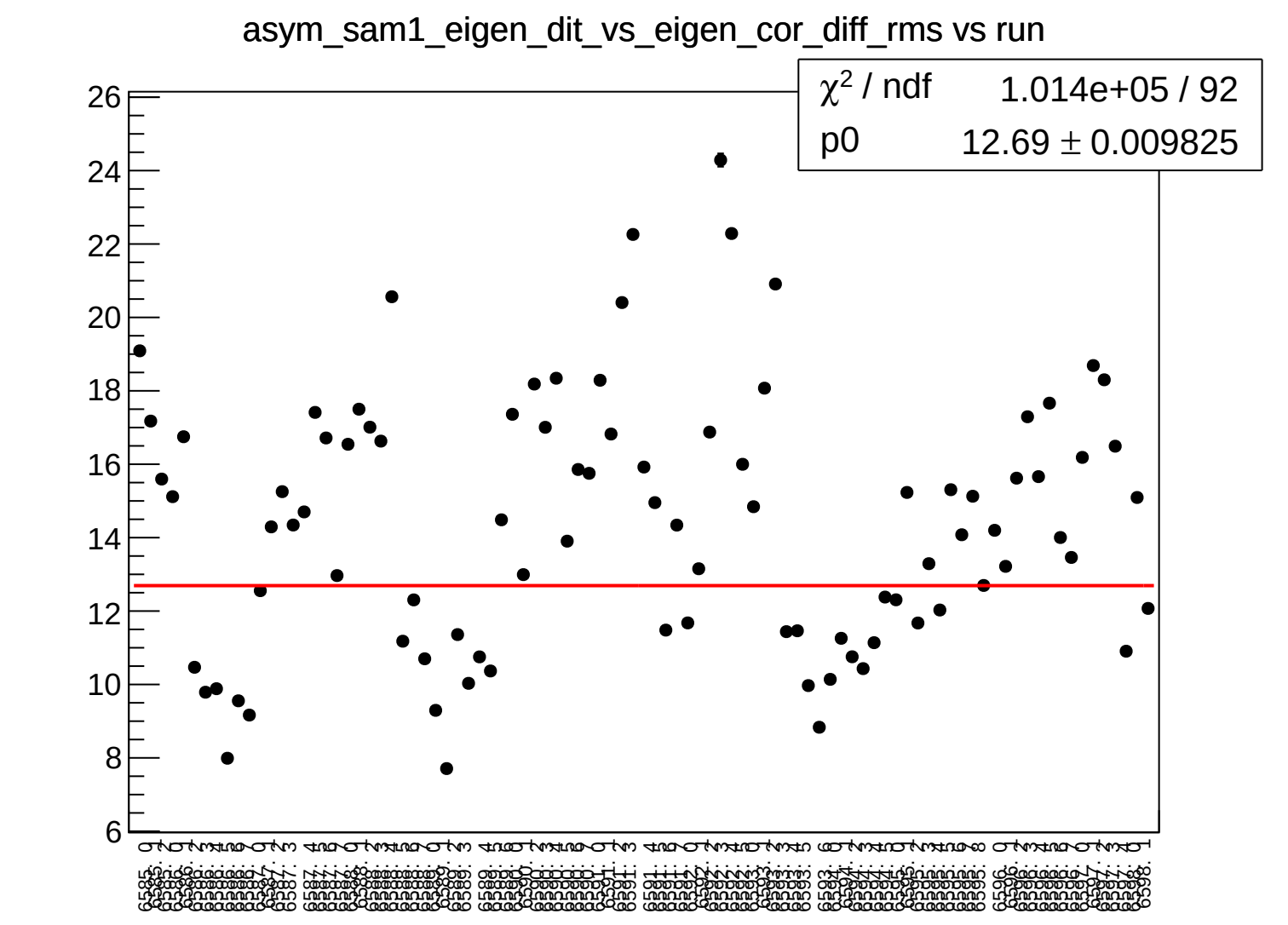

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.76 / 92
p0 0.03095 ± 0.01389
pull
Entries 93
Mean 54.08
Std Dev 0

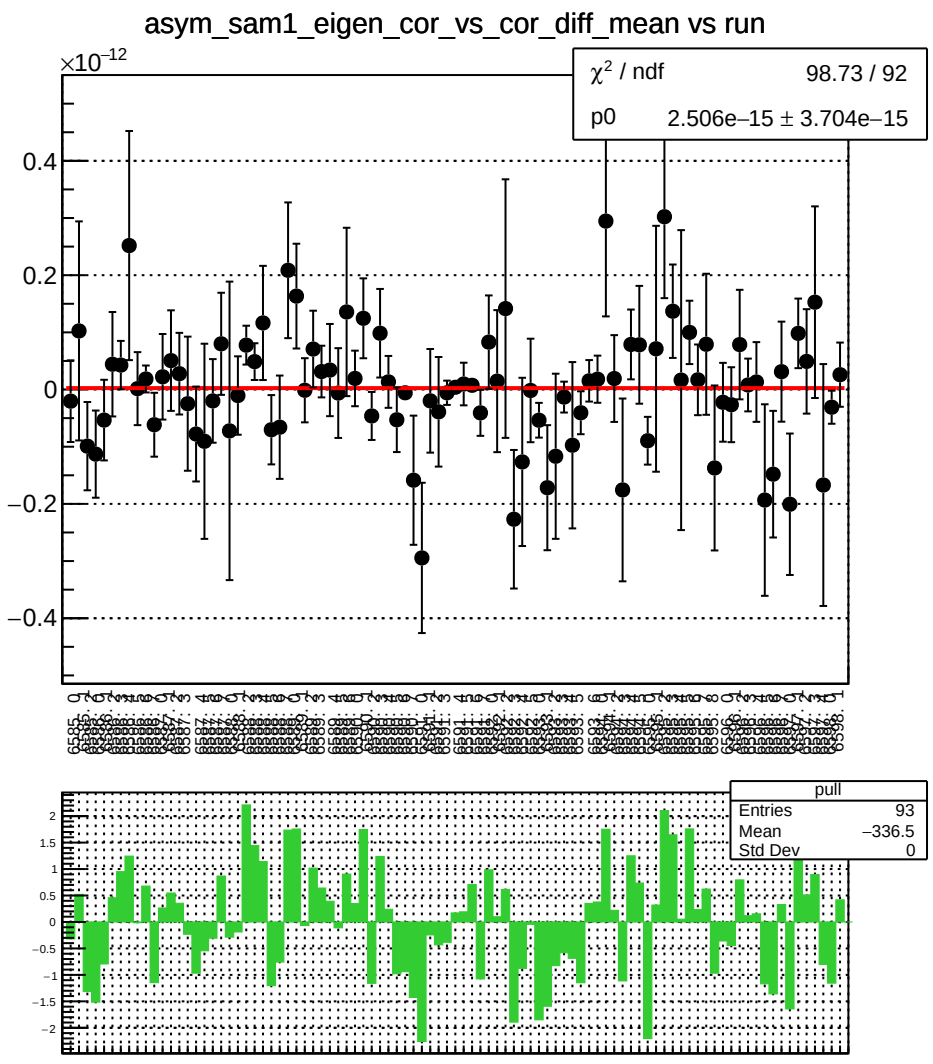

pull1D
Entries 93
Mean 0.01992
Std Dev 0.8843

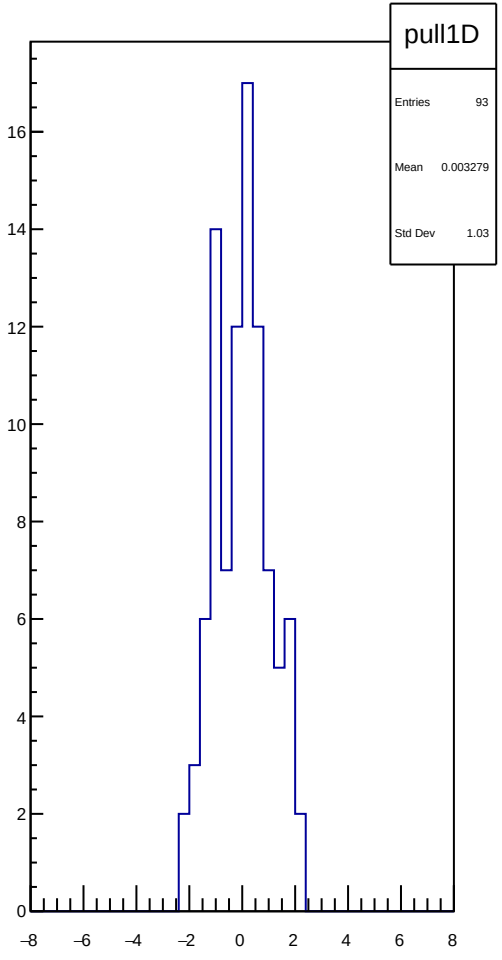

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 92
p0 12.69 ± 0.009825
26
24
22
20
18
16
14
12
10
8
6

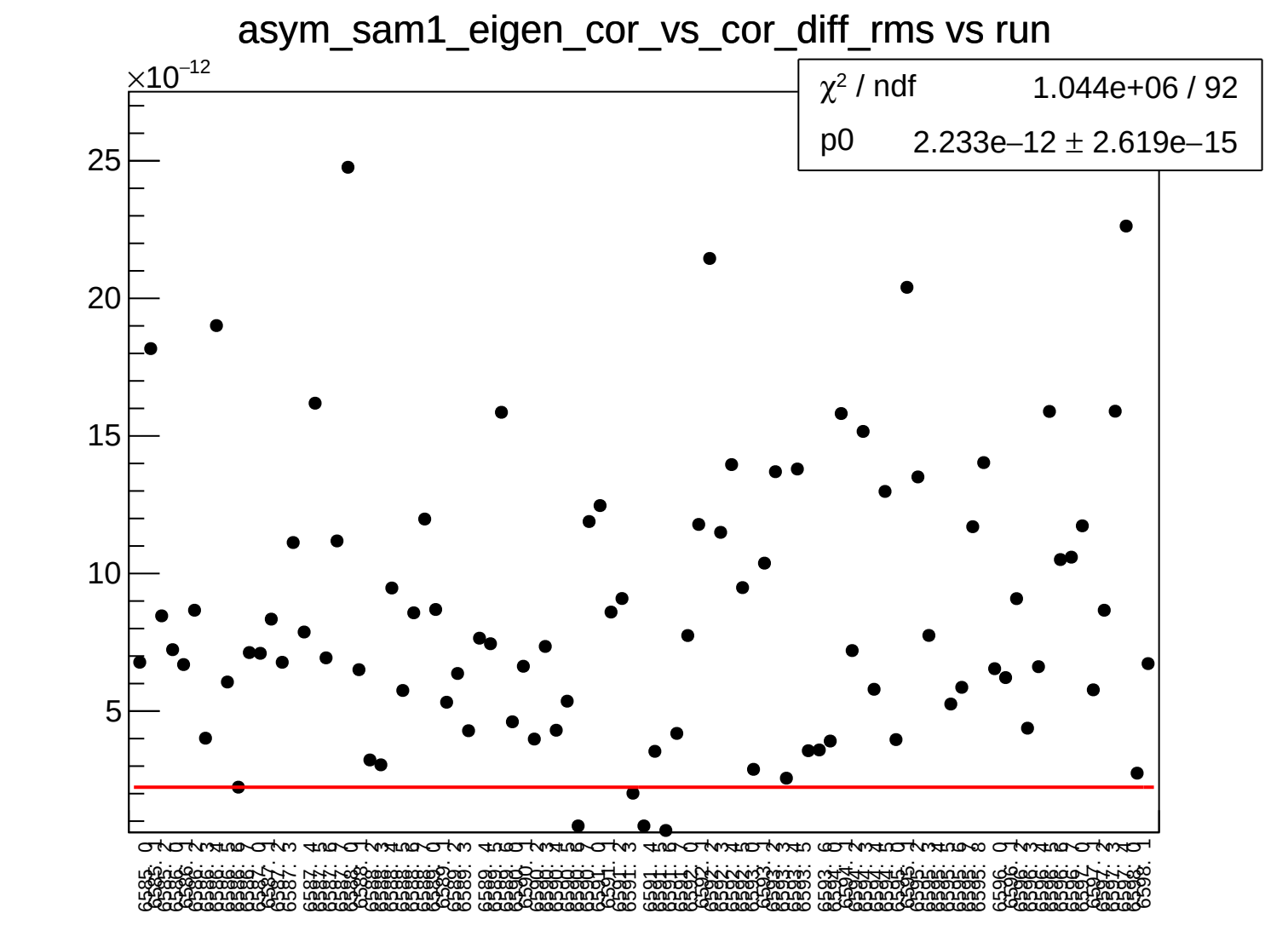

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.76 / 92
p0 0.03095 ± 0.01389
pull
Entries 93
Mean 54.08
Std Dev 0

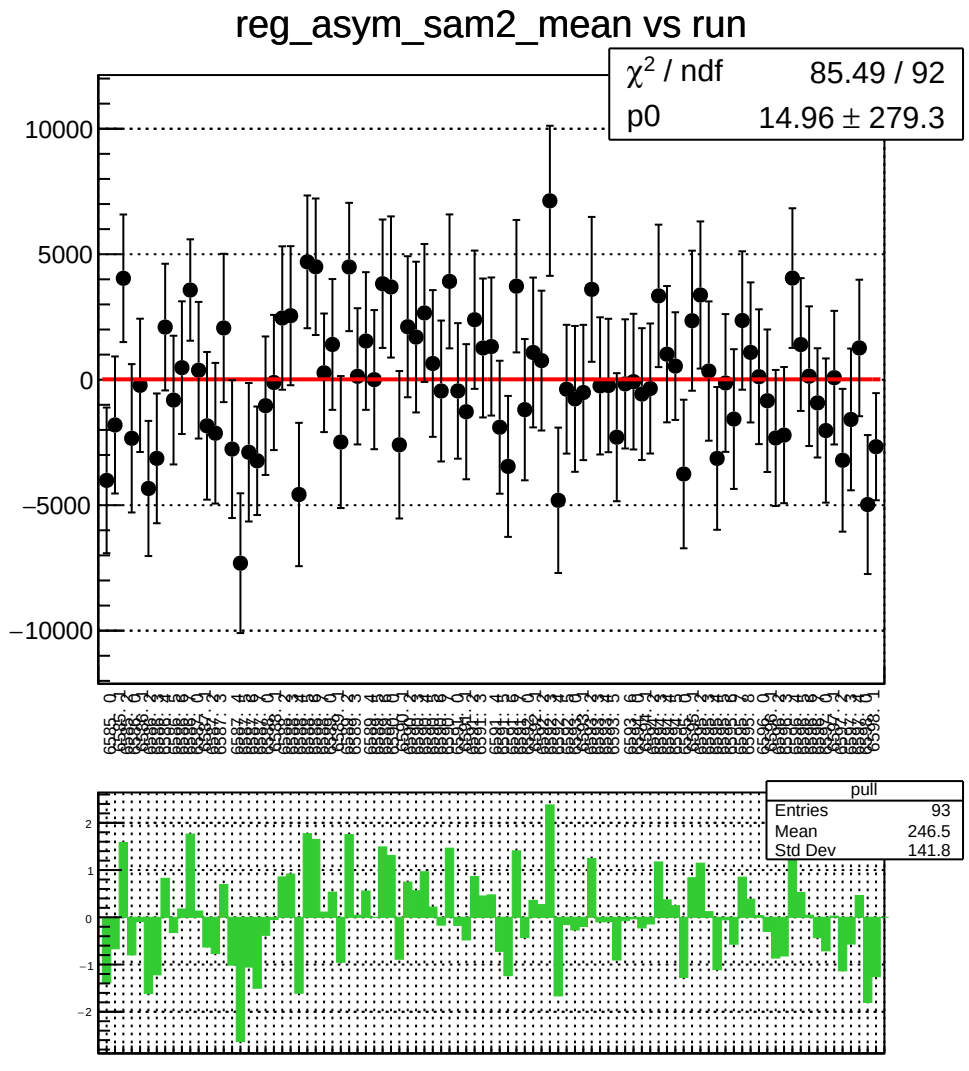

pull1D
Entries 93
Mean 0.01992
Std Dev 0.8843

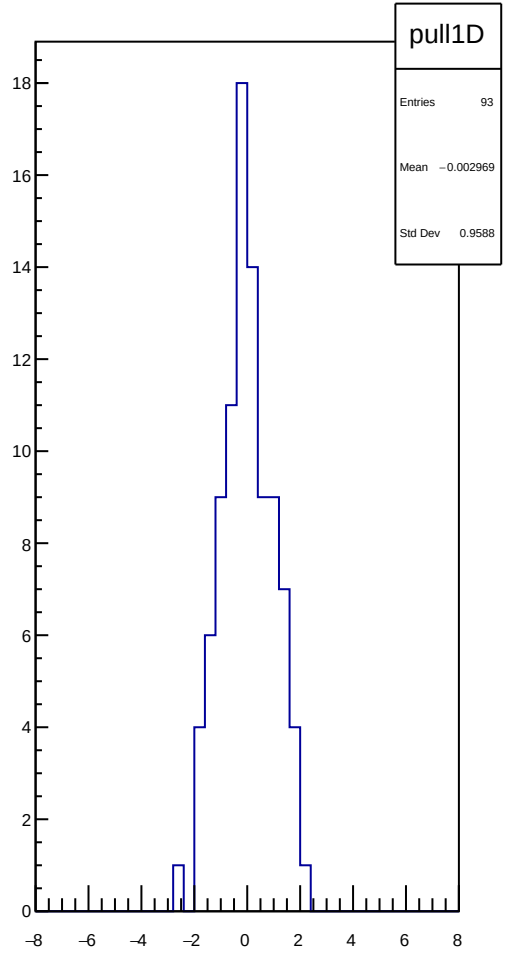

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.014e+05 / 92
p0 12.69 ± 0.009825
26
24
22
20
18
16
14
12
10
8
6

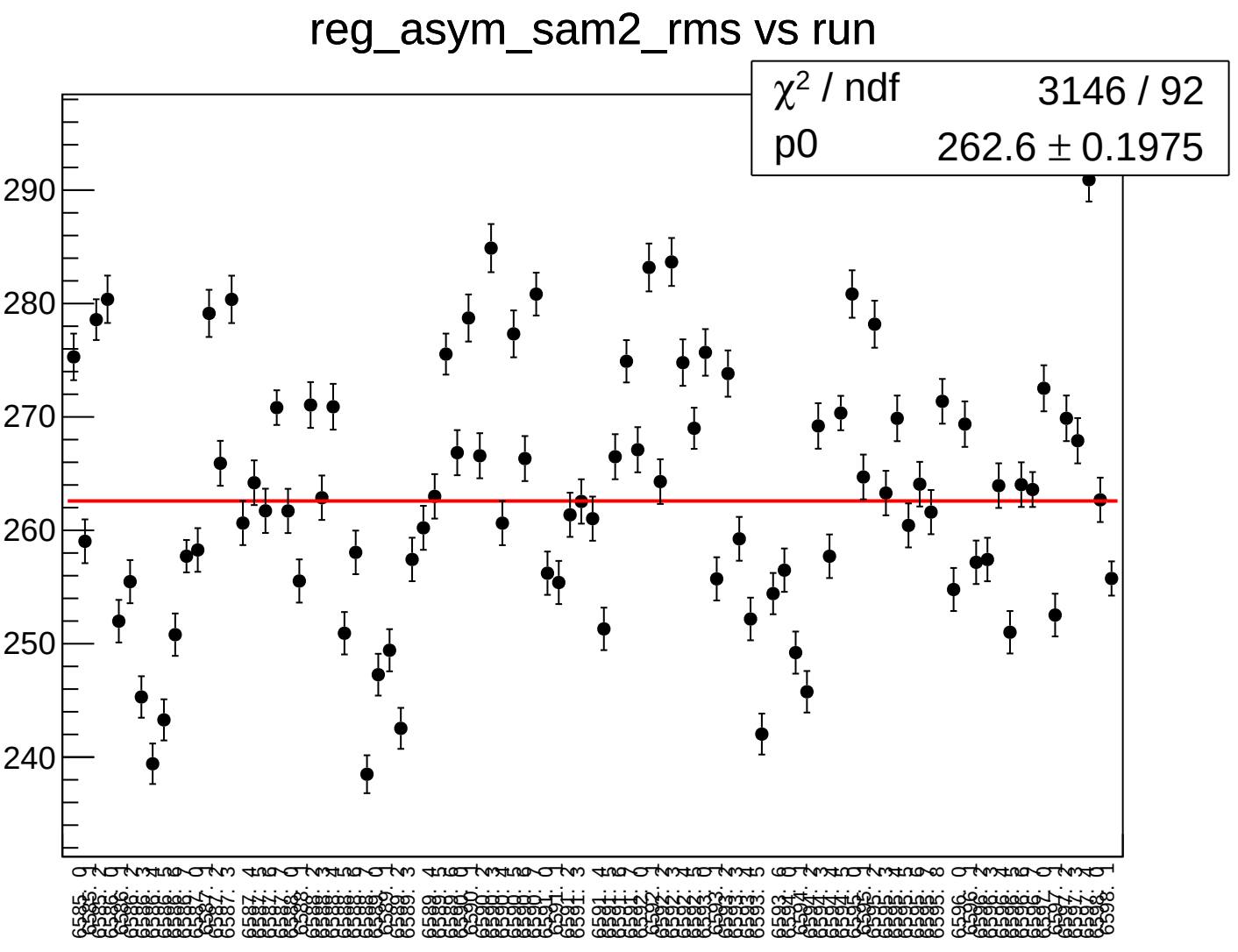

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.73 / 92
p0 2.506e−15 ± 3.704e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean −336.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

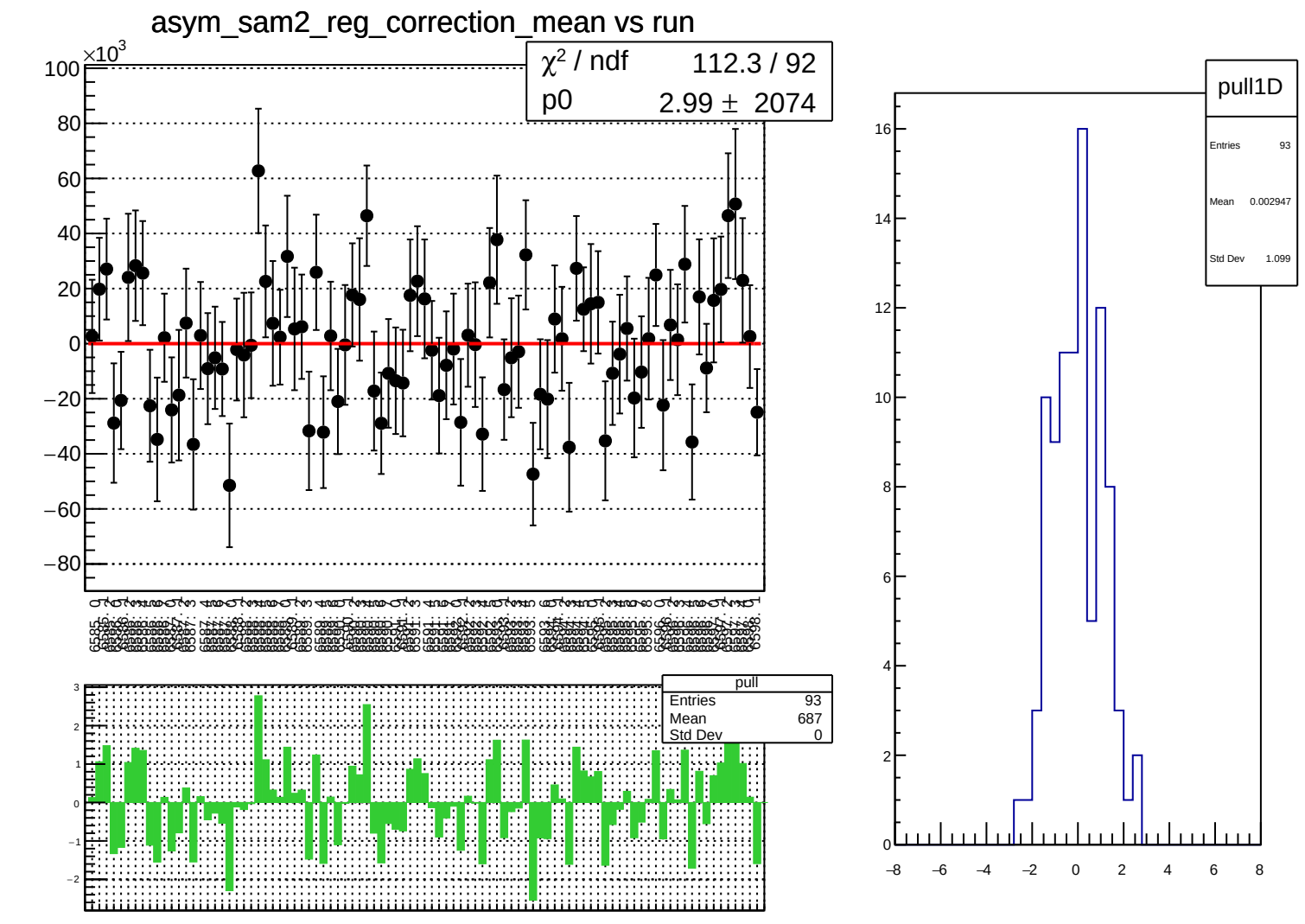

pull1D
Entries 93
Mean 0.003279
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

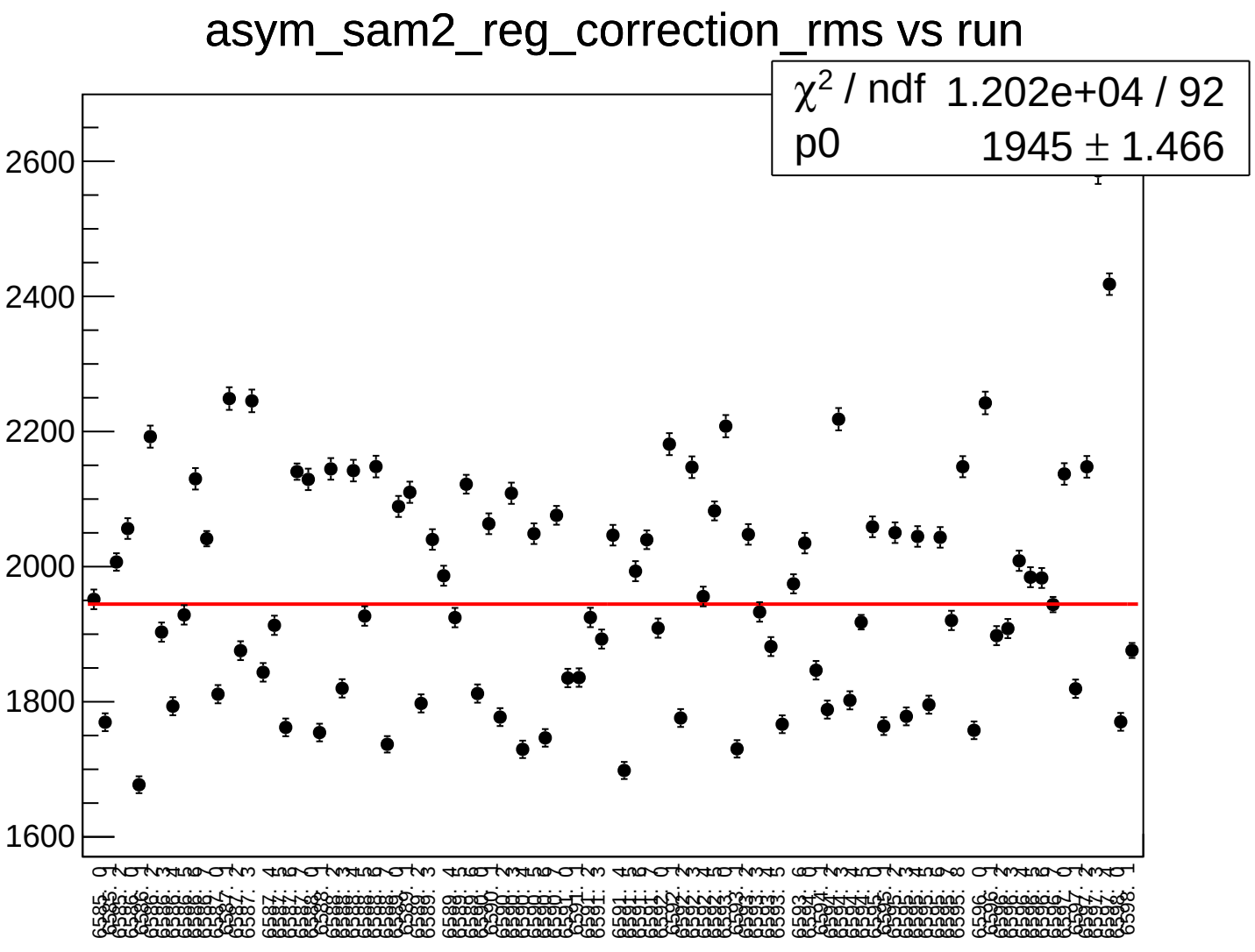

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.044e+06 / 92
p0 2.233e−12 ± 2.619e−15
25
20
15
10
5

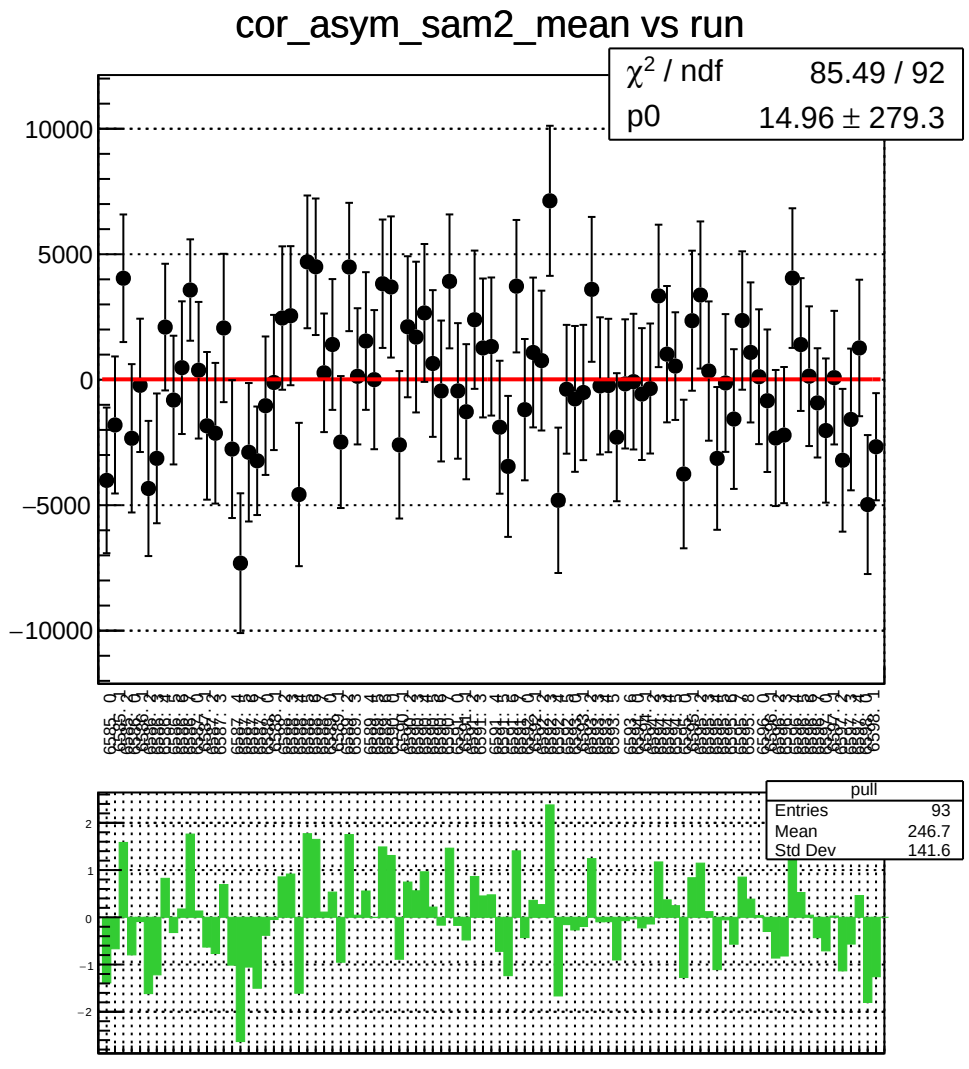

reg_asym_sam2_mean vs run
χ² / ndf 85.49 / 92
p0 14.96 ± 279.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 246.5
Std Dev 141.8
2
1
0
−1
−2

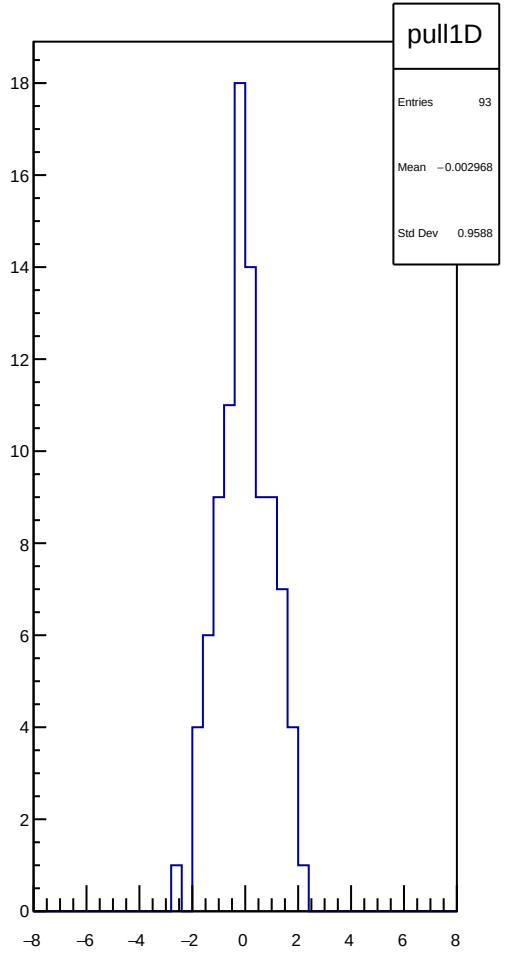

pull1D
Entries 93
Mean −0.002969
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

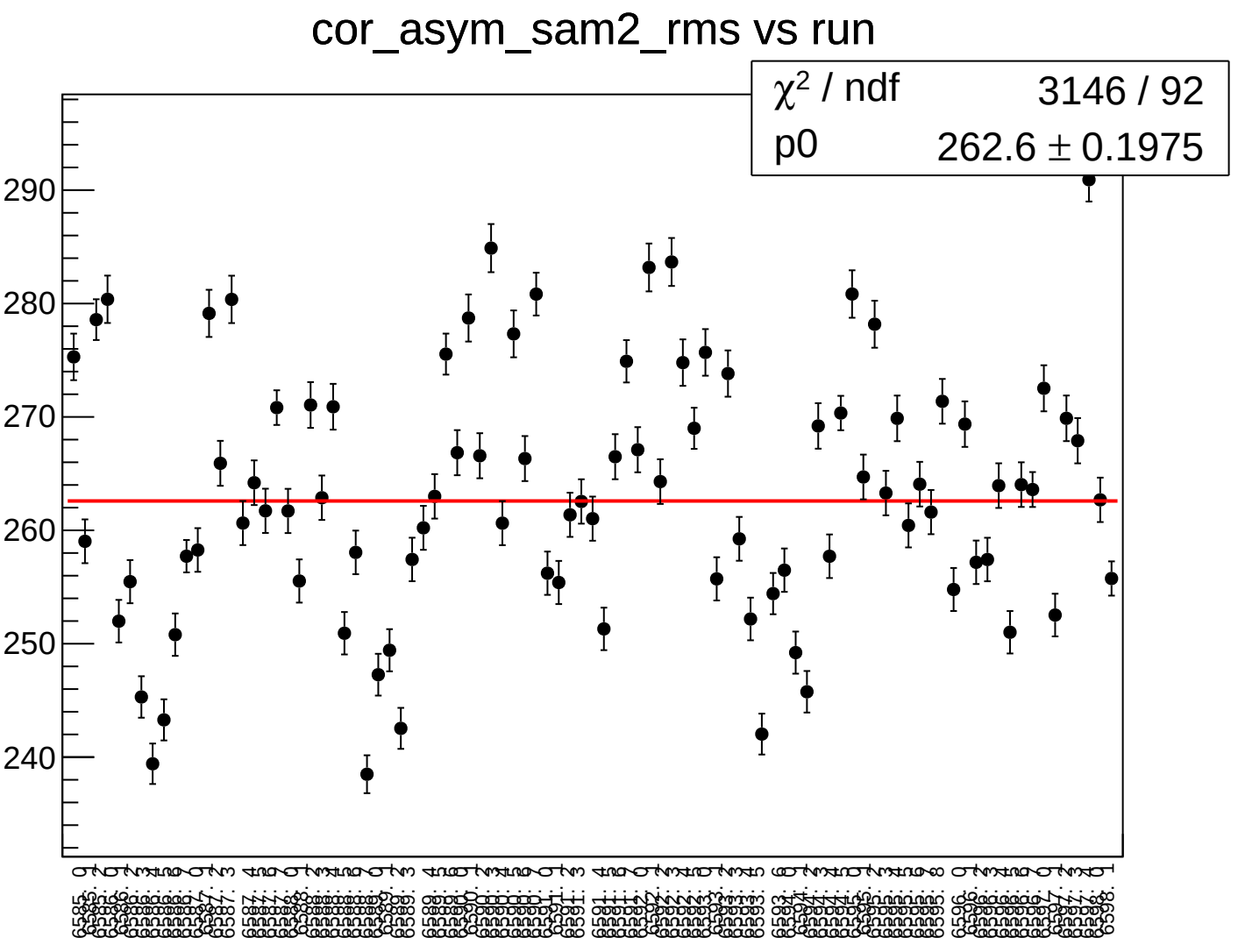

reg_asym_sam2_rms vs run
χ² / ndf 3146 / 92
p0 262.6 ± 0.1975
290
280
270
260
250
240

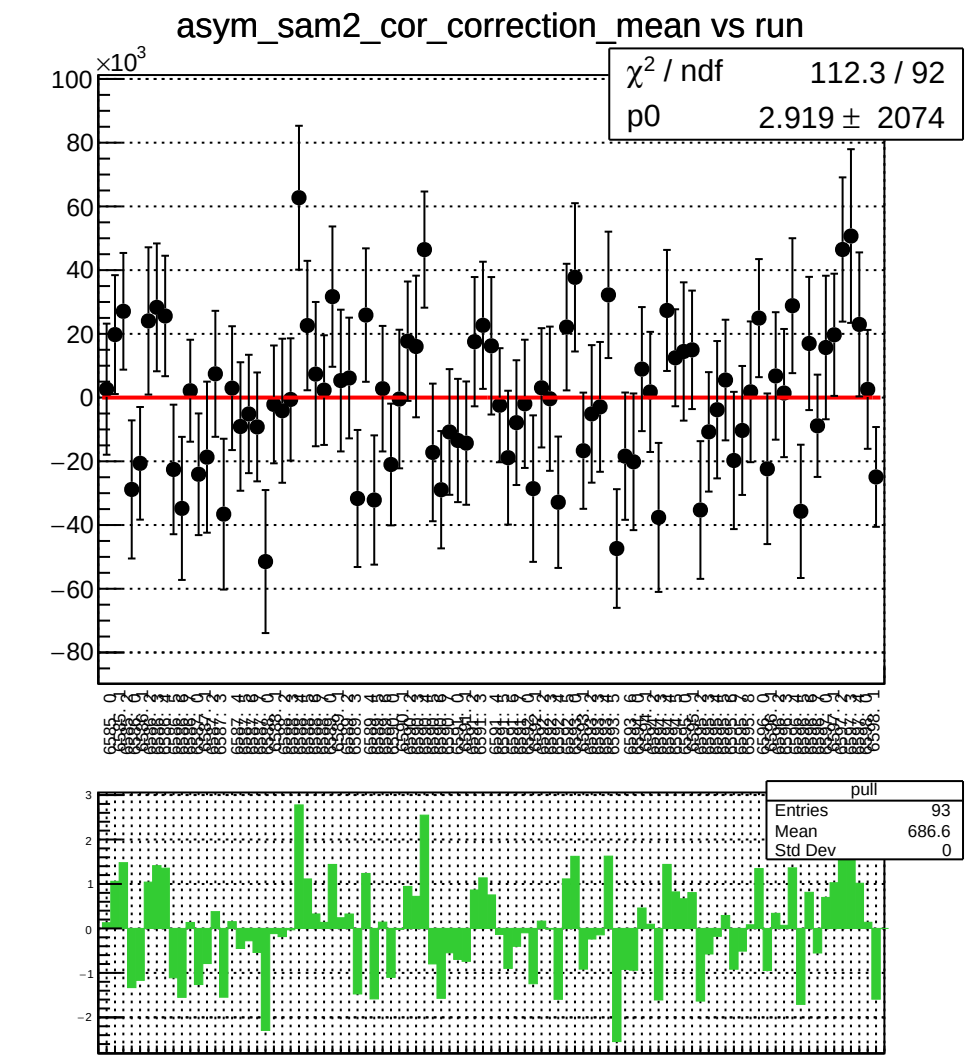

asym_sam2_reg_correction_mean vs run
χ² / ndf 112.3 / 92
p0 2.99 ± 2074
×10³
pull
Entries 93
Mean 687
Std Dev 0
pull1D
Entries 93
Mean 0.002947
Std Dev 1.099

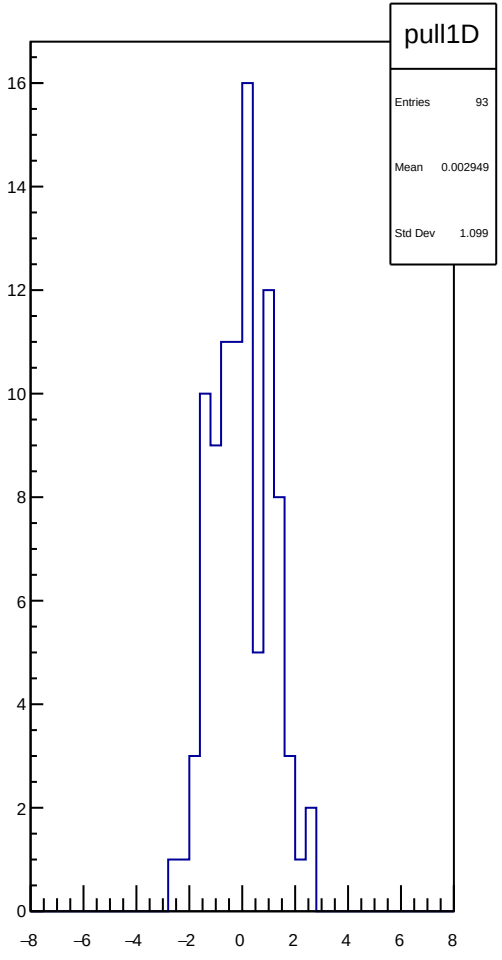

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.202e+04 / 92
p0 1945 ± 1.466
2600
2400
2200
2000
1800
1600

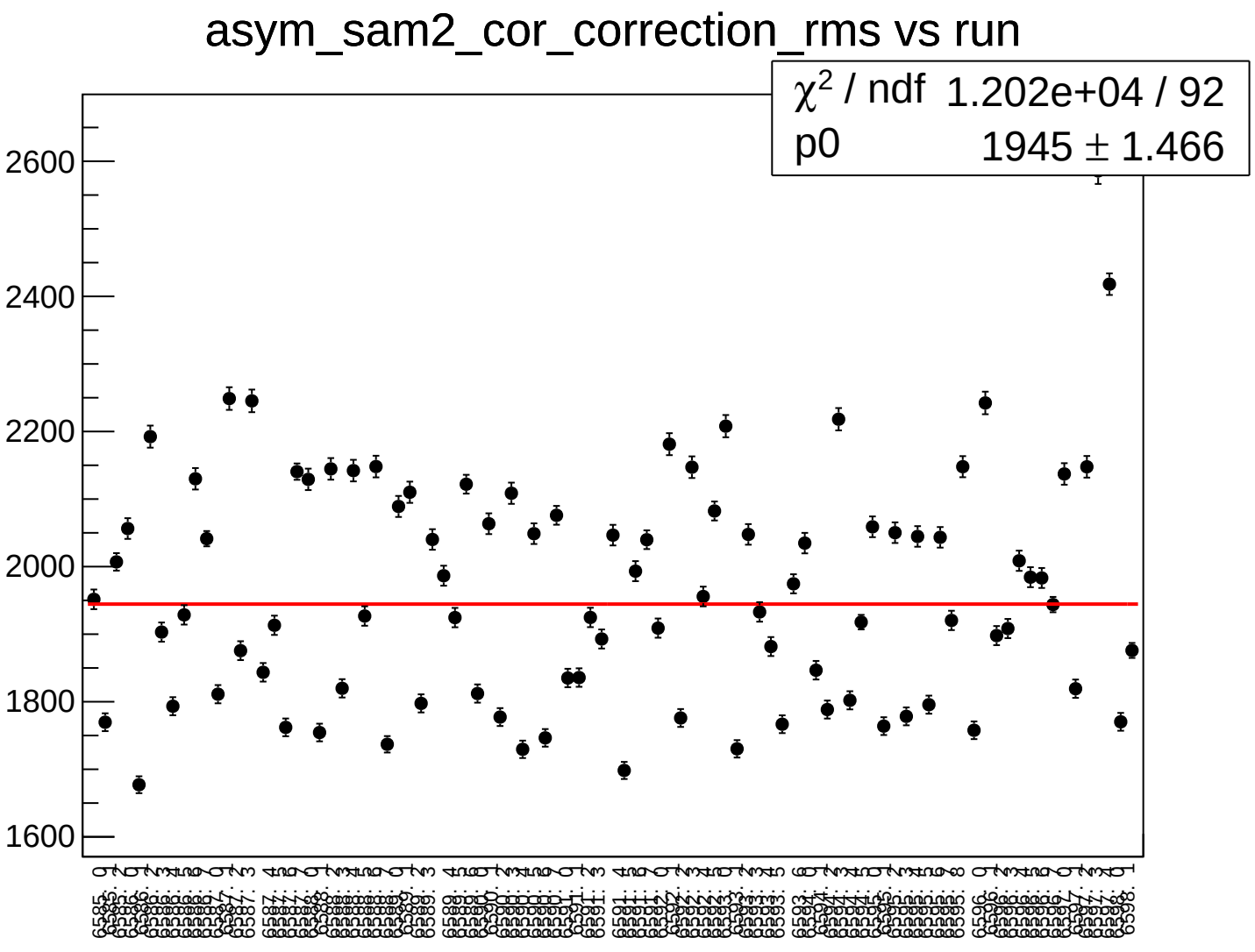

cor_asym_sam2_mean vs run
χ² / ndf 85.49 / 92
p0 14.96 ± 279.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 246.7
Std Dev 141.6
2
1
0
−1
−2

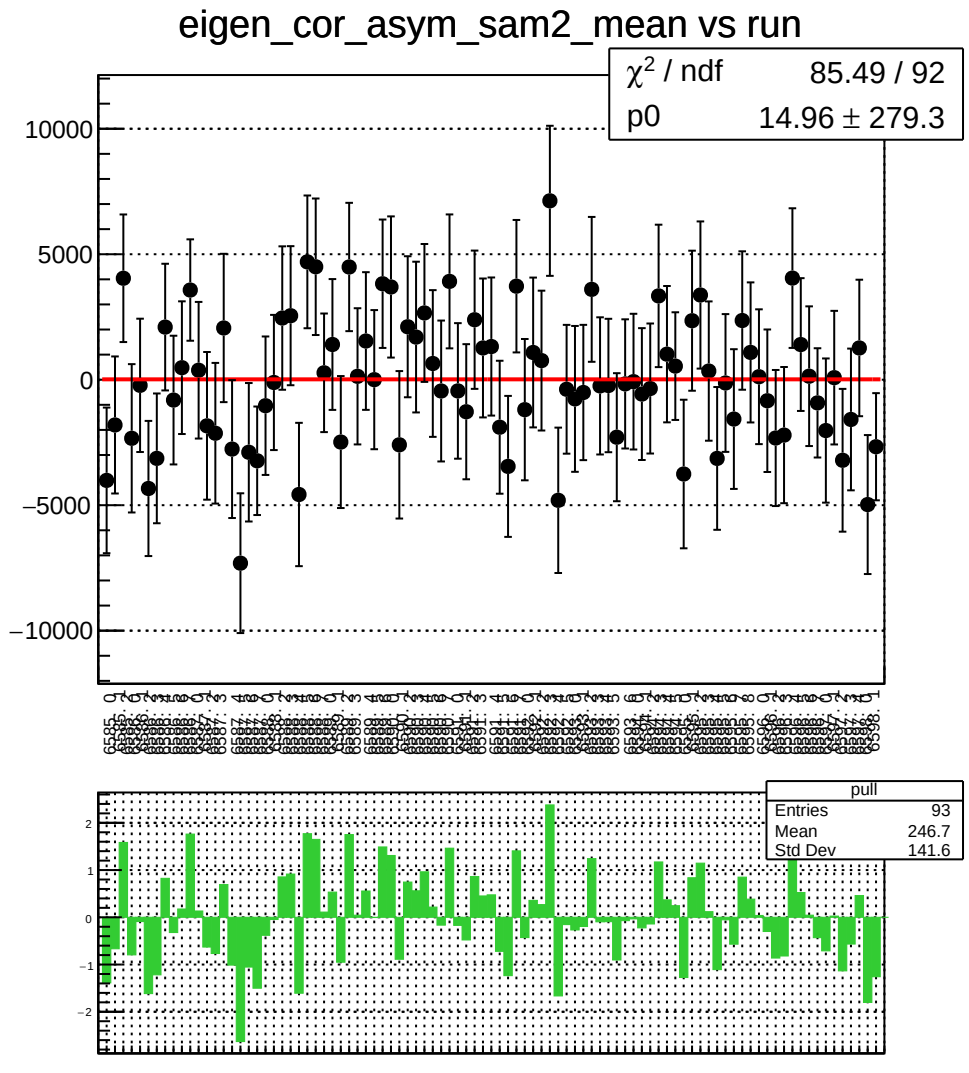

pull1D
Entries 93
Mean −0.002968
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

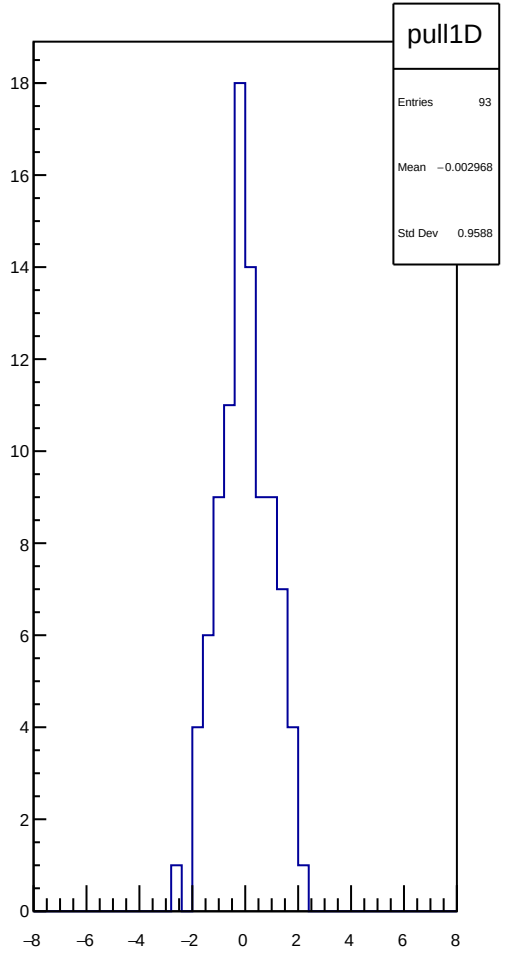

cor_asym_sam2_rms vs run
χ² / ndf 3146 / 92
p0 262.6 ± 0.1975
290
280
270
260
250
240

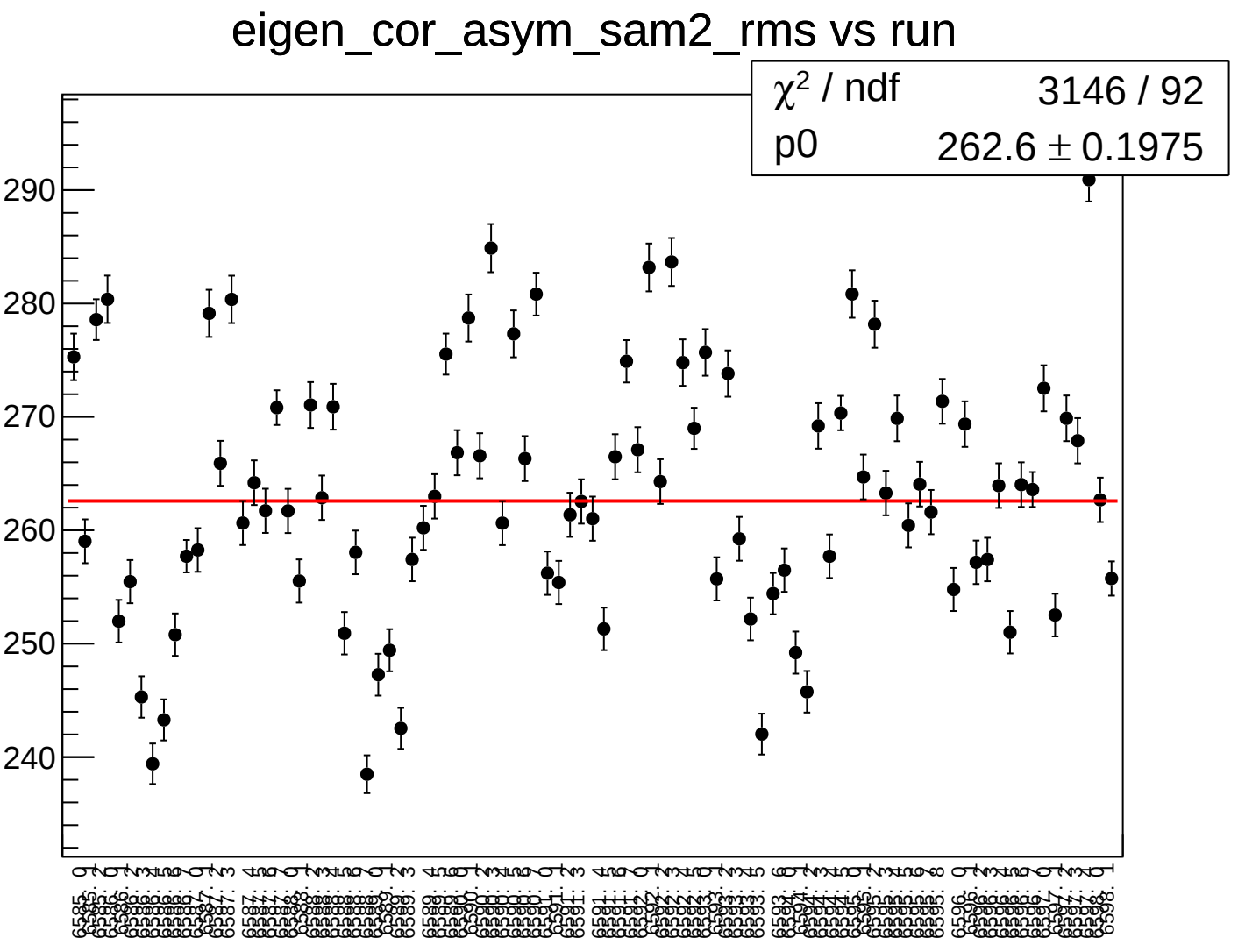

asym_sam2_cor_correction_mean vs run
χ² / ndf 112.3 / 92
p0 2.919 ± 2074
×10³
pull
Entries 93
Mean 686.6
Std Dev 0

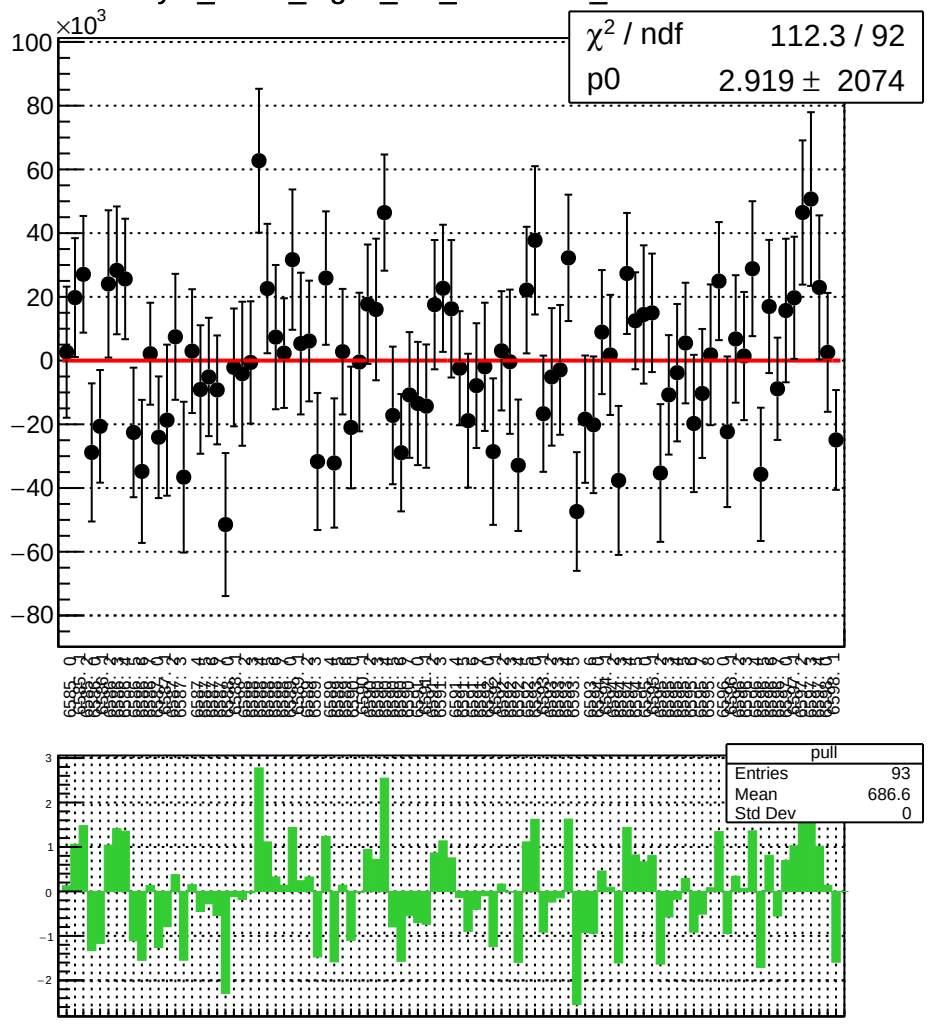

pull1D
Entries 93
Mean 0.002949
Std Dev 1.099

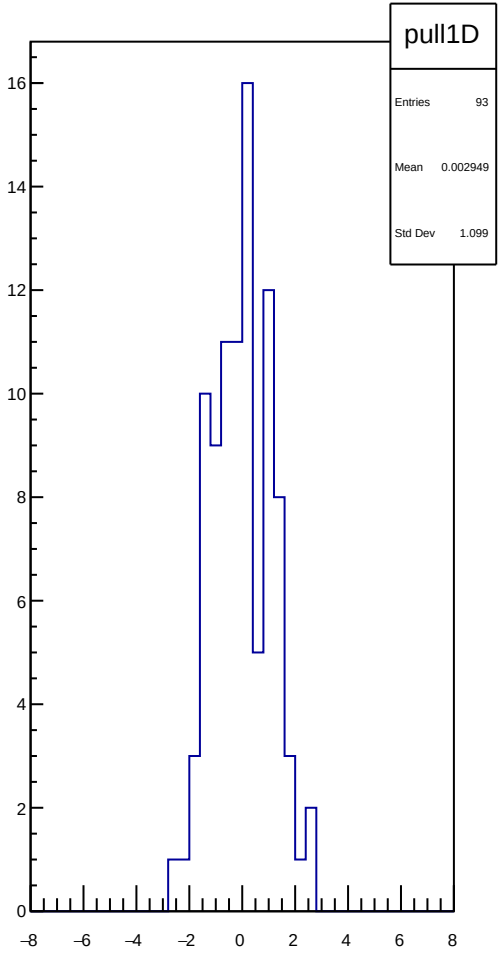

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.202e+04 / 92
p0 1945 ± 1.466
2600
2400
2200
2000
1800
1600

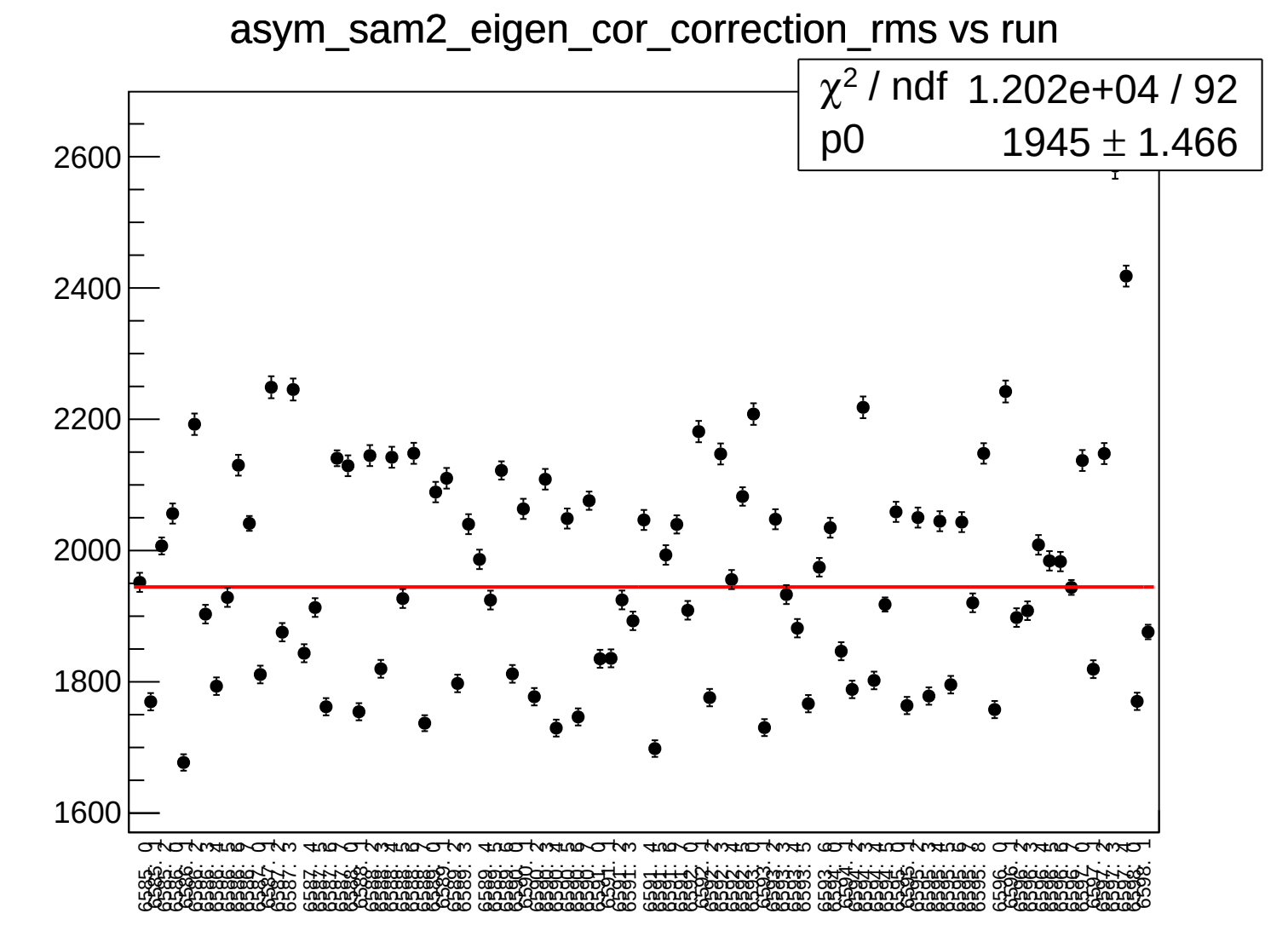

eigen_cor_asym_sam2_mean vs run
χ² / ndf 85.49 / 92
p0 14.96 ± 279.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 246.7
Std Dev 141.6
2
1
0
−1
−2

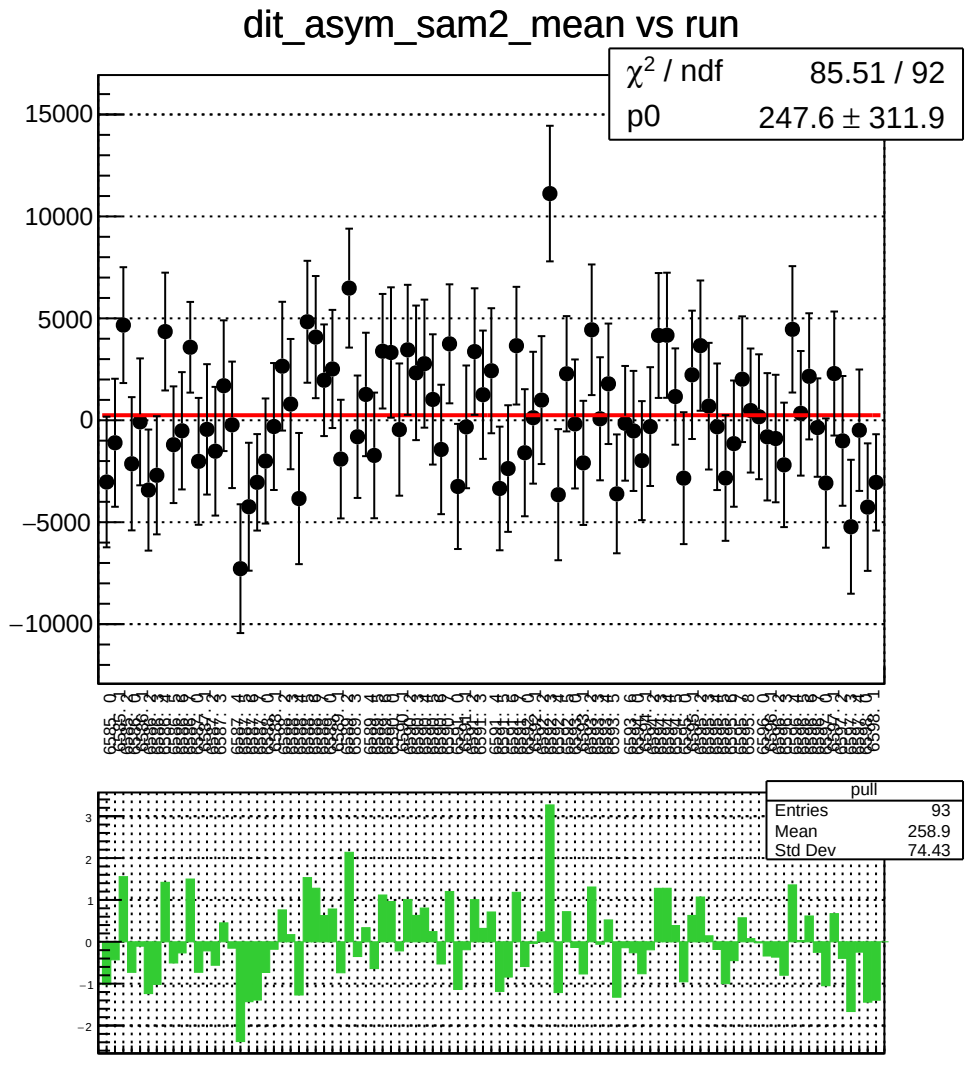

pull1D
Entries 93
Mean −0.002968
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

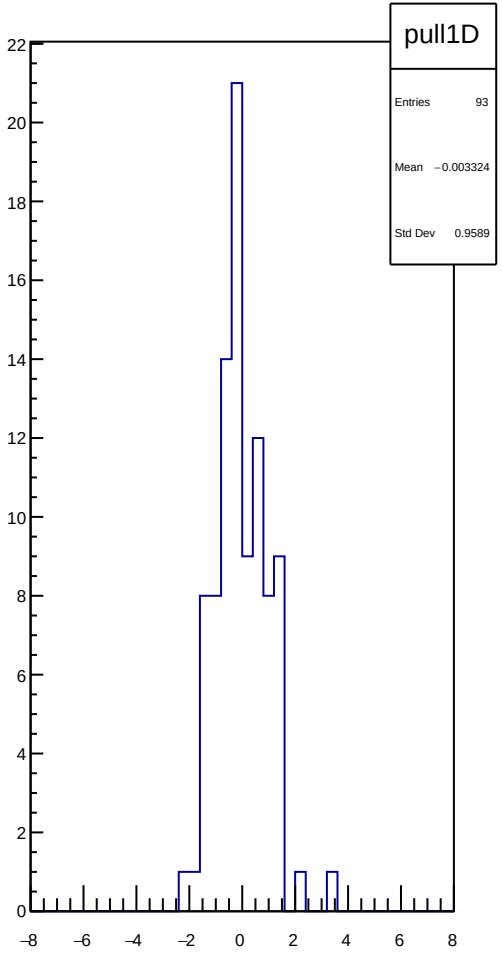

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3146 / 92
p0 262.6 ± 0.1975
290
280
270
260
250
240

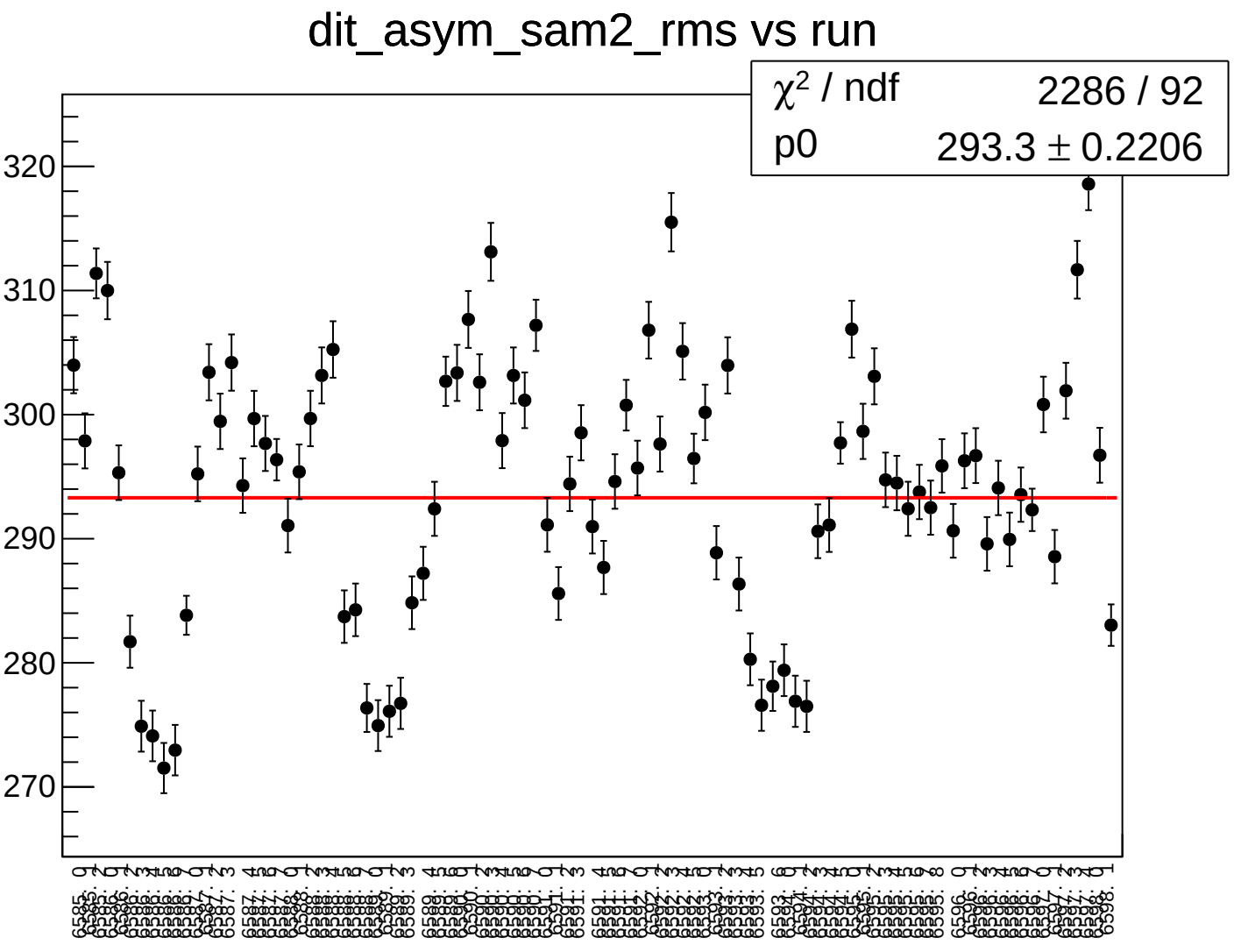

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 112.3 / 92
p0 2.919 ± 2074
pull
Entries 93
Mean 686.6
Std Dev 0

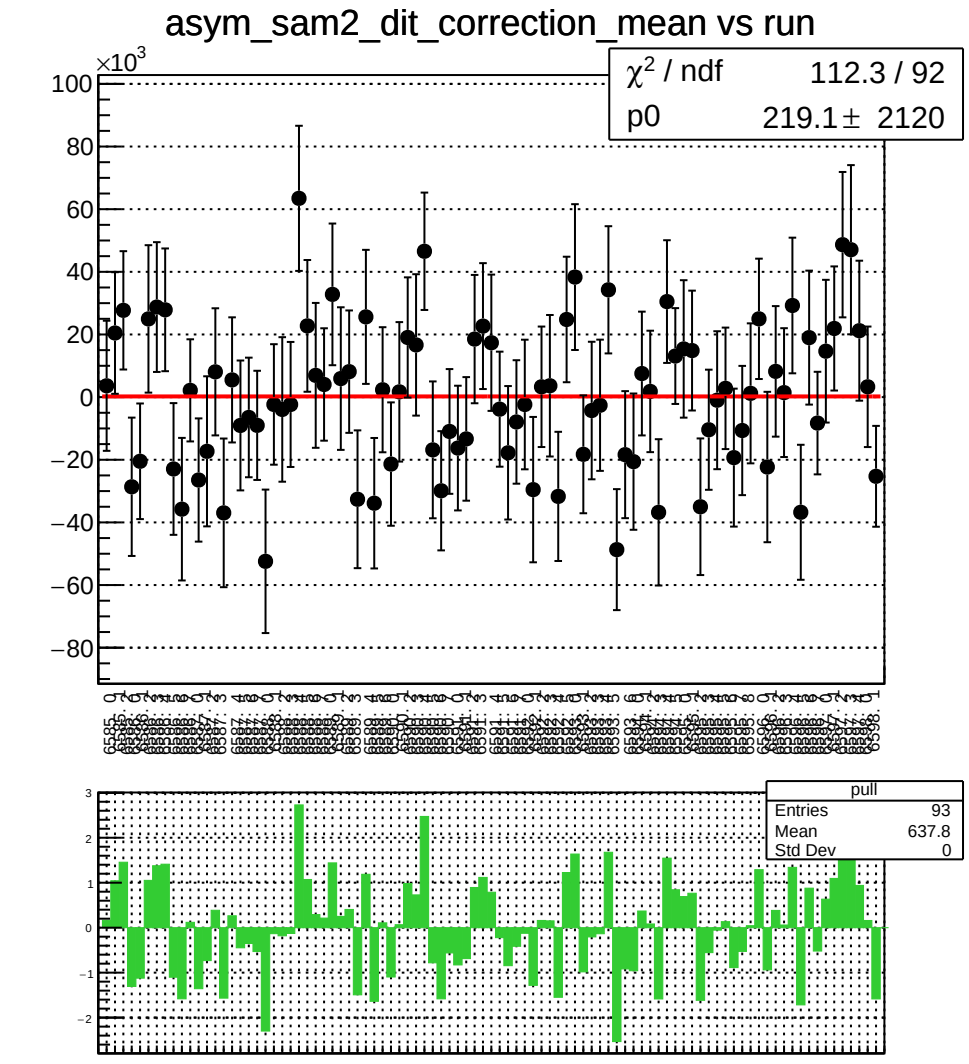

pull1D
Entries 93
Mean 0.002949
Std Dev 1.099

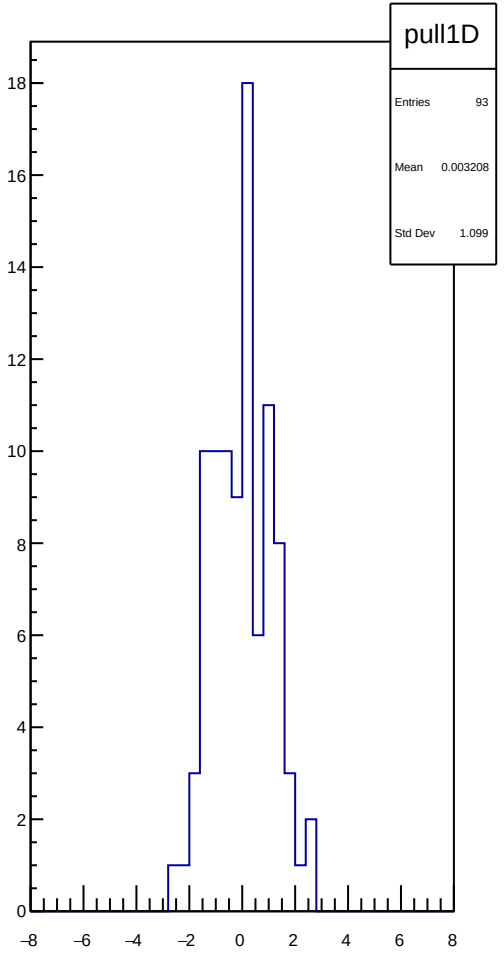

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.202e+04 / 92
p0 1945 ± 1.466
2600
2400
2200
2000
1800
1600

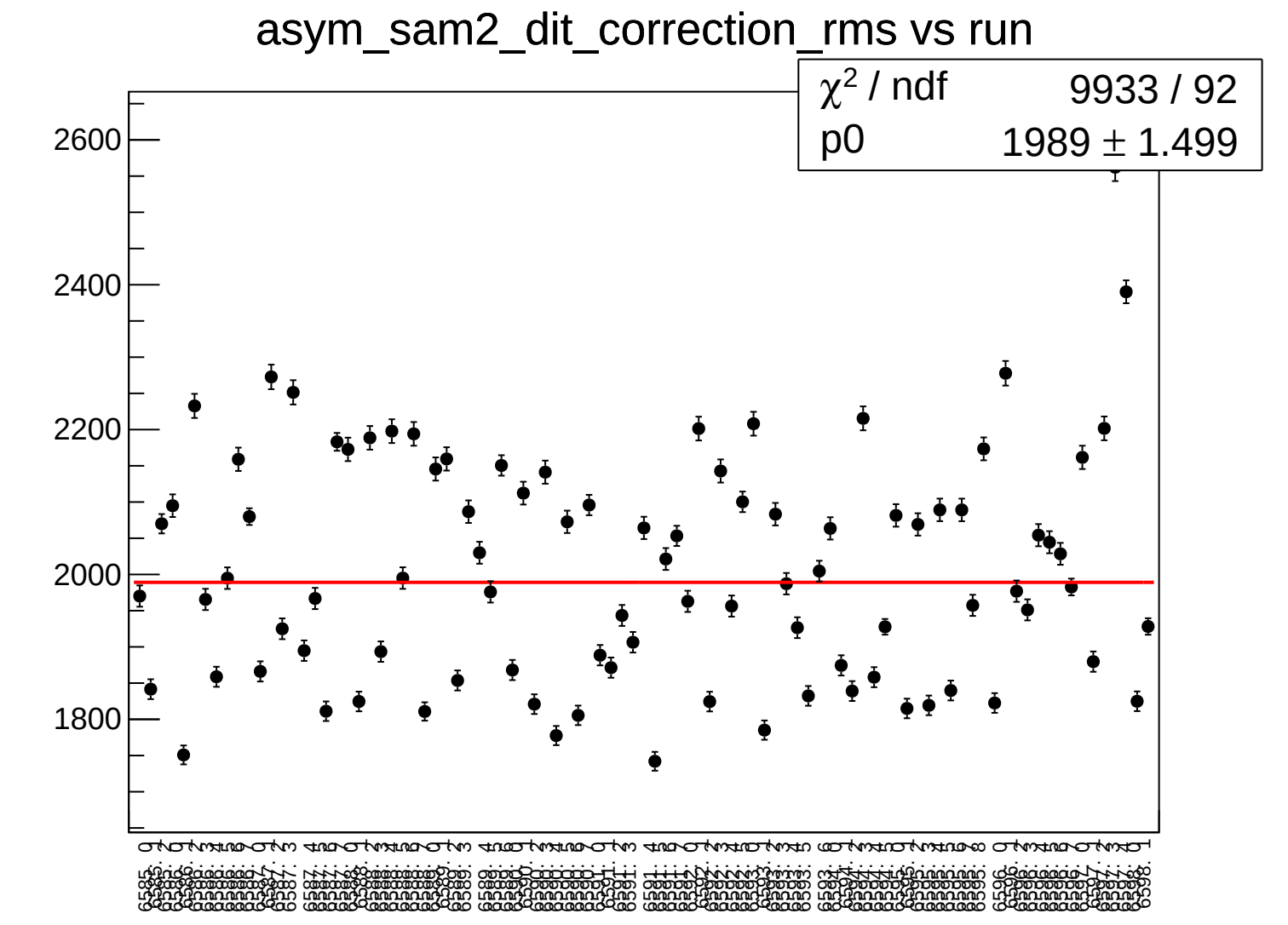

dit_asym_sam2_mean vs run
χ² / ndf 85.51 / 92
p0 247.6 ± 311.9
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 258.9
Std Dev 74.43
3
2
1
0
−1
−2

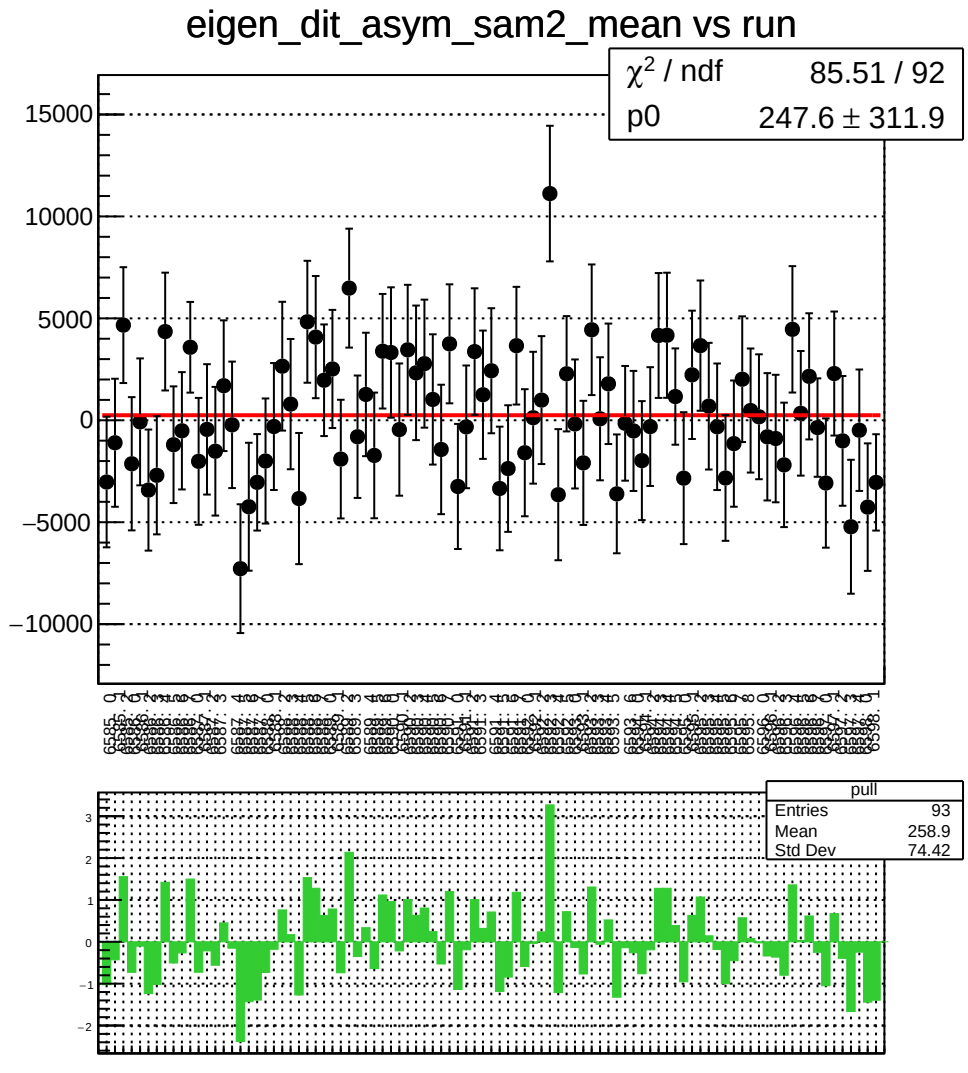

pull1D
Entries 93
Mean −0.003324
Std Dev 0.9589
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

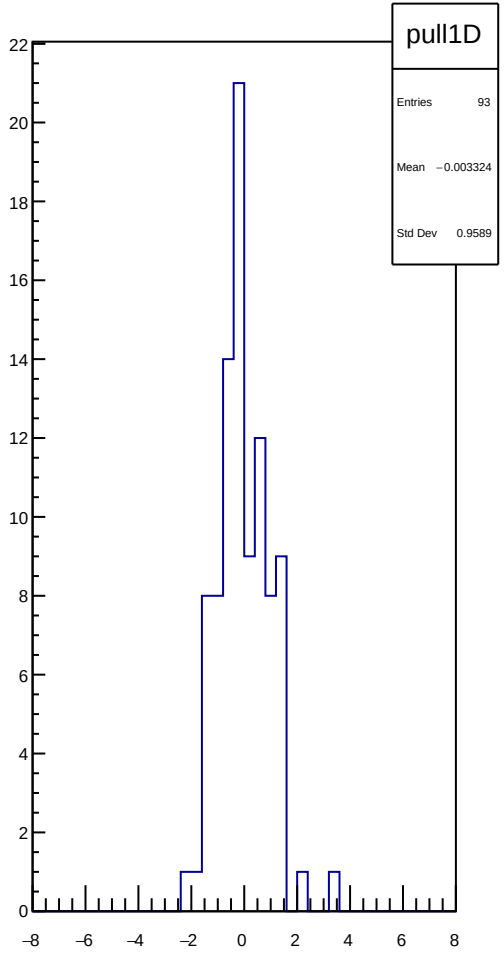

dit_asym_sam2_rms vs run
χ² / ndf 2286 / 92
p0 293.3 ± 0.2206
320
310
300
290
280
270

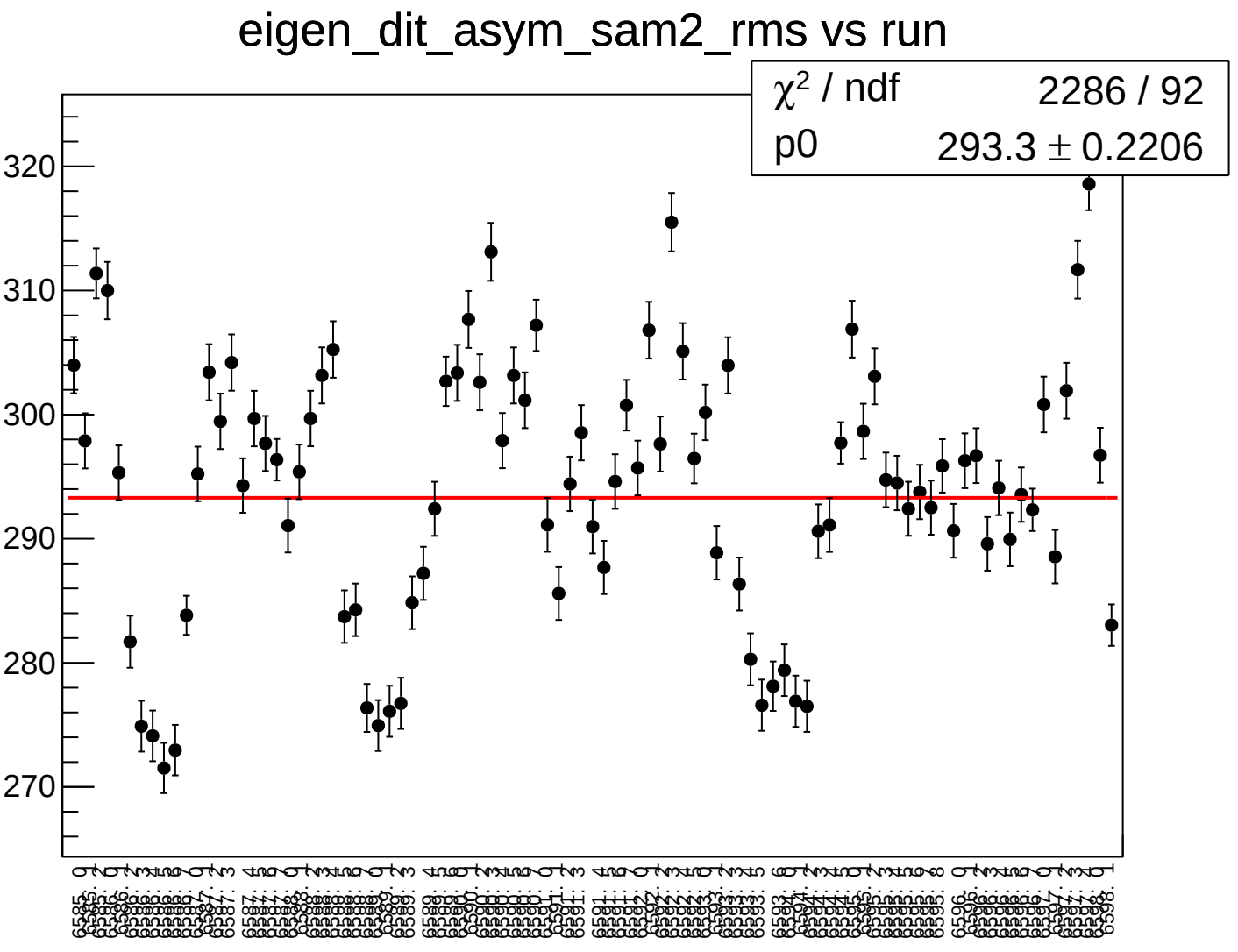

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 112.3 / 92
p0 219.1 ± 2120
pull
Entries 93
Mean 637.8
Std Dev 0

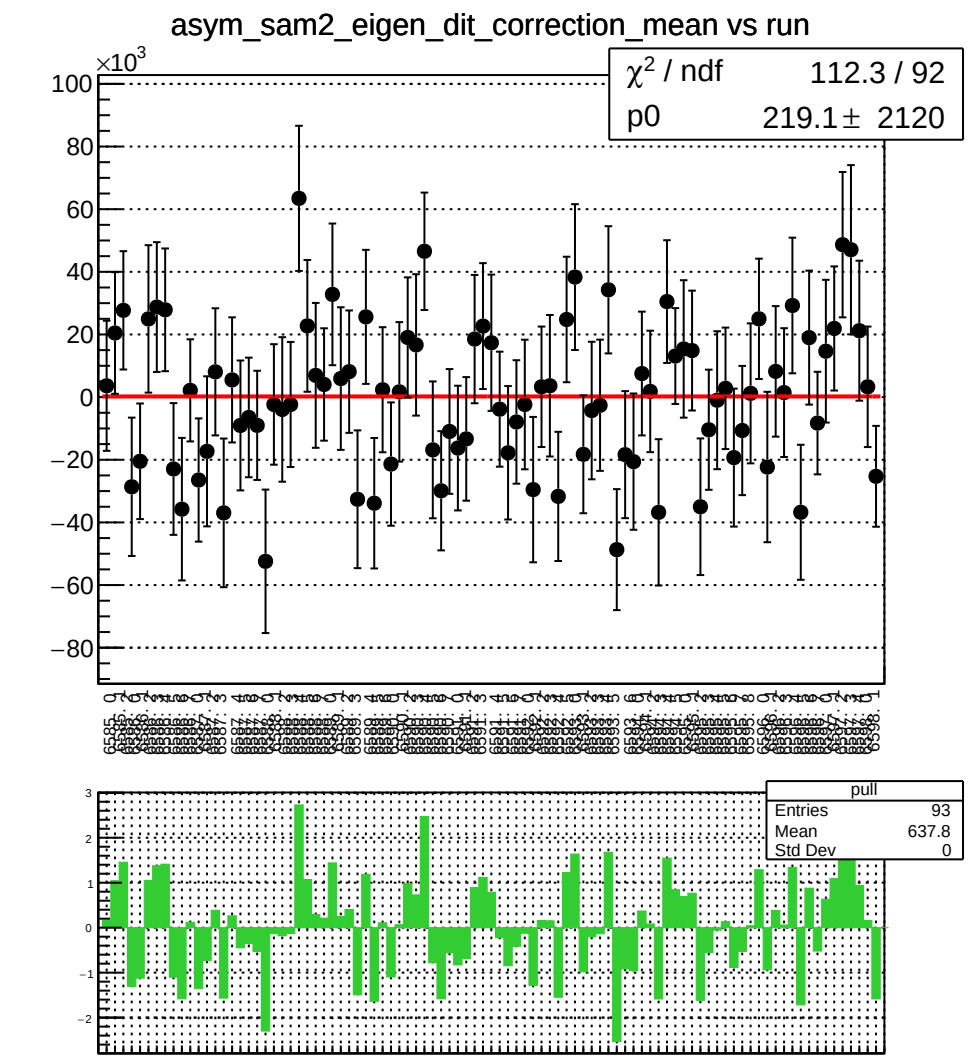

pull1D
Entries 93
Mean 0.003208
Std Dev 1.099

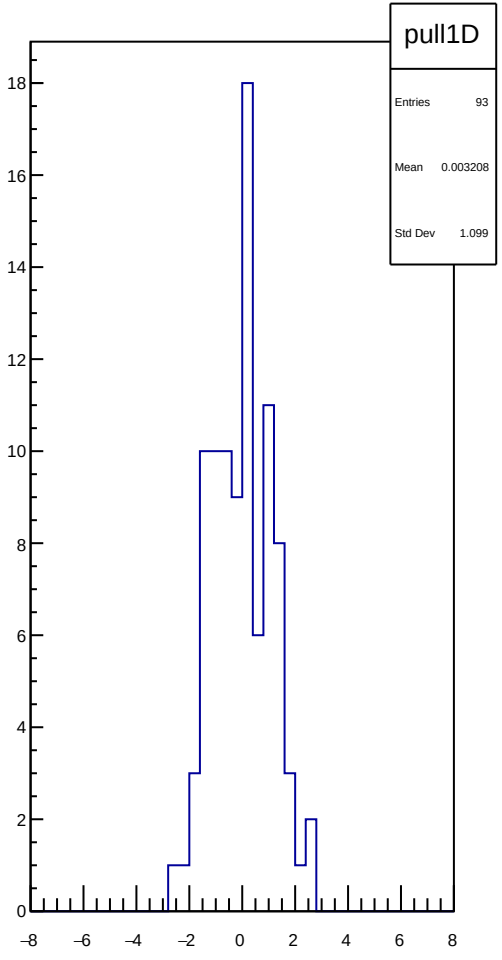

asym_sam2_dit_correction_rms vs run
χ^2 / ndf 9933 / 92
p0 1989 ± 1.499
2600
2400
2200
2000
1800

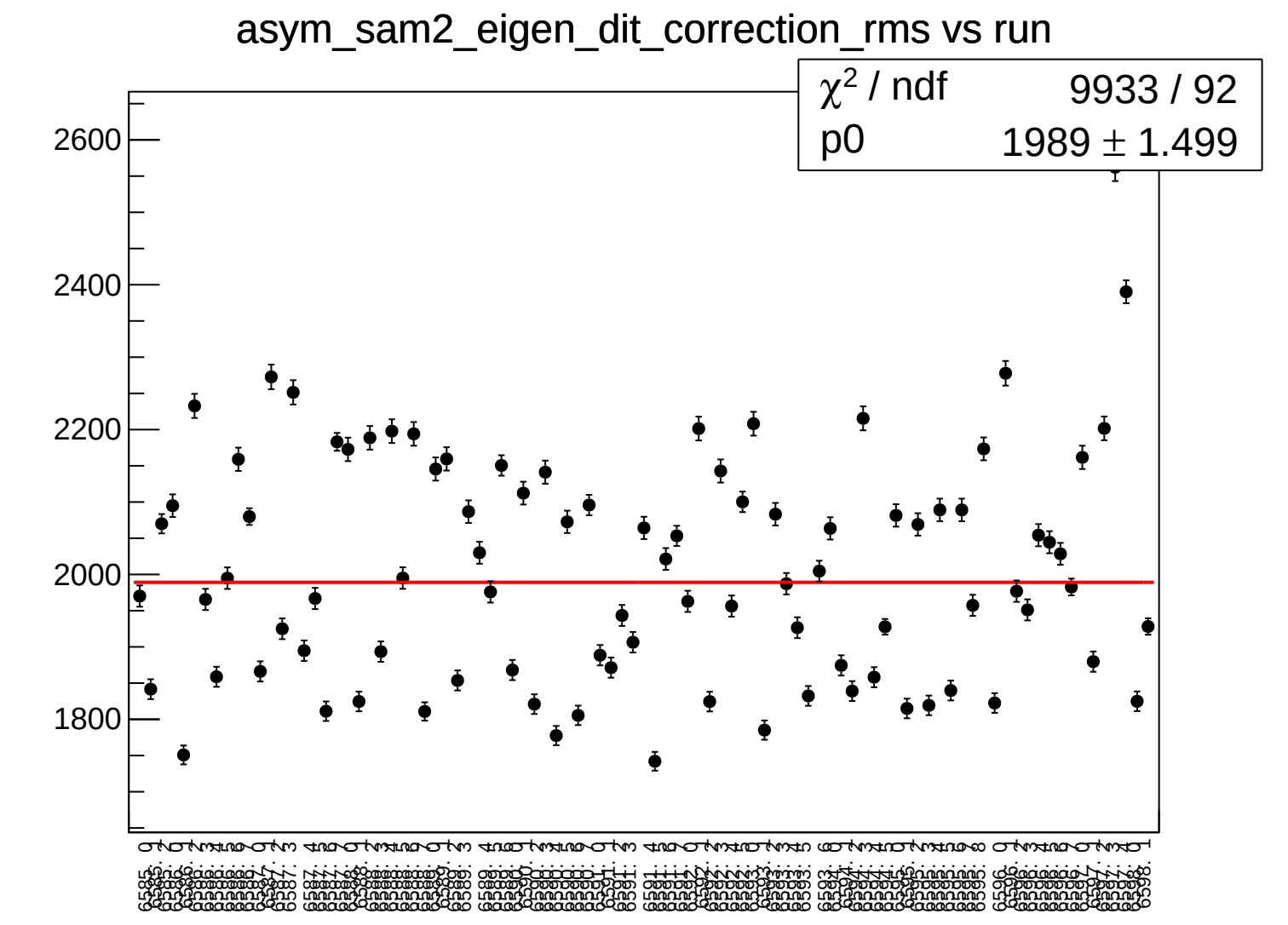

eigen_dit_asym_sam2_mean vs run
χ² / ndf 85.51 / 92
p0 247.6 ± 311.9
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 258.9
Std Dev 74.42
3
2
1
0
−1
−2

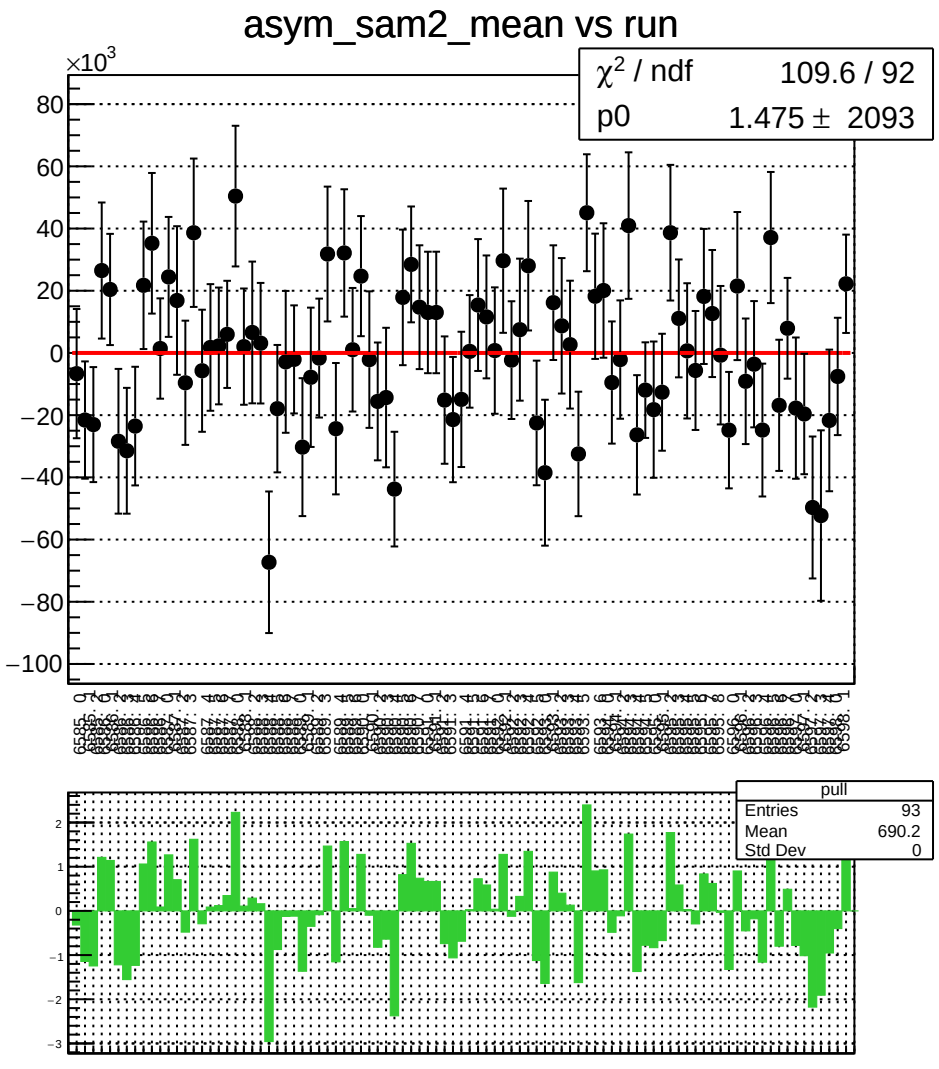

pull1D
Entries 93
Mean −0.003324
Std Dev 0.9589
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

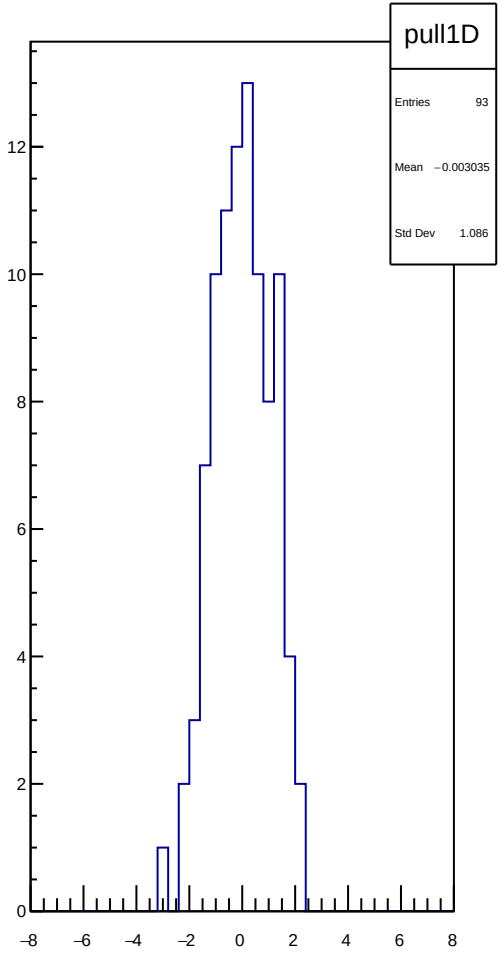

eigen_dit_asym_sam2_rms vs run
χ² / ndf 2286 / 92
p0 293.3 ± 0.2206
320
310
300
290
280
270

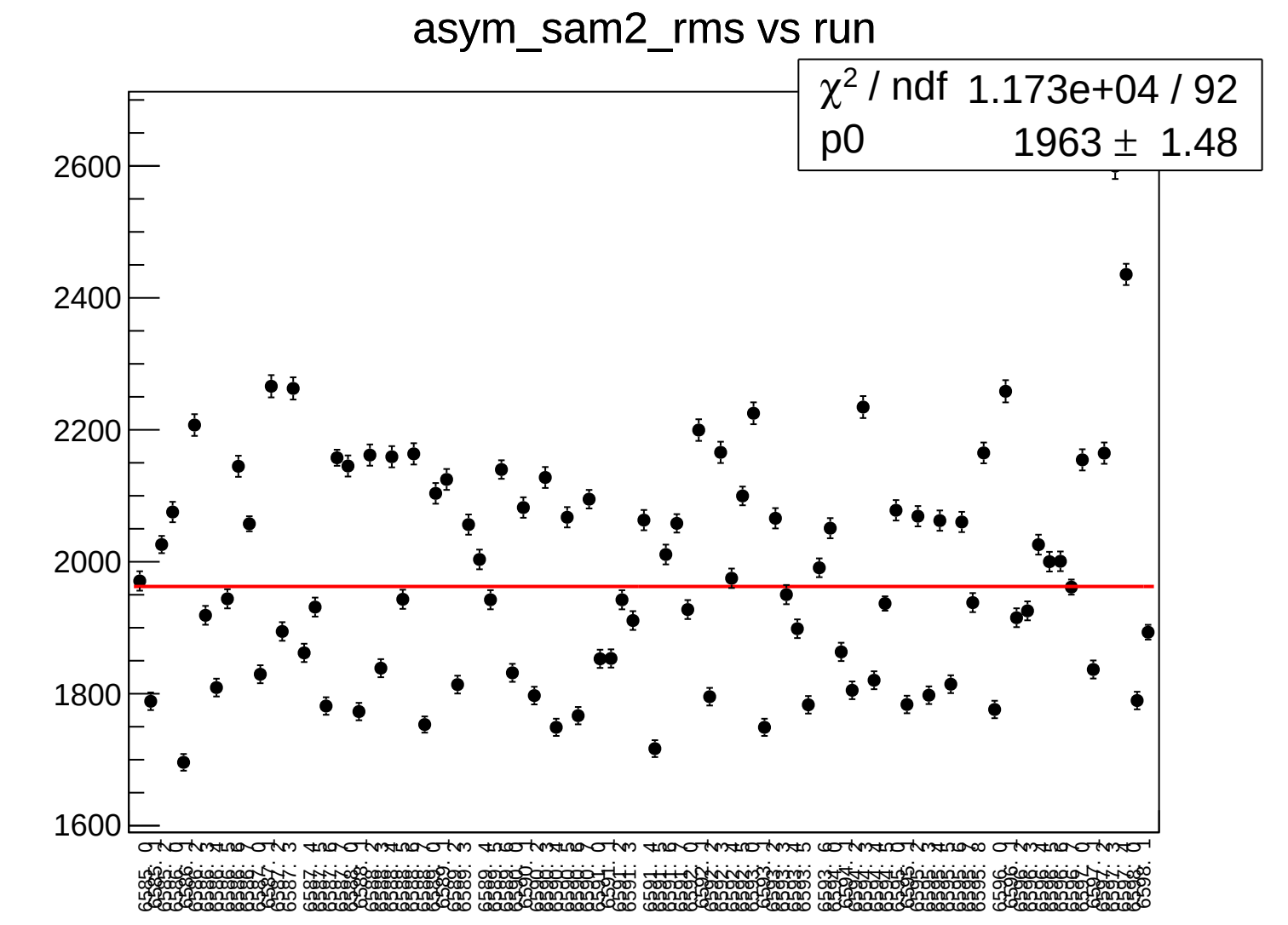

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 112.3 / 92
p0 219.1 ± 2120
pull
Entries 93
Mean 637.8
Std Dev 0

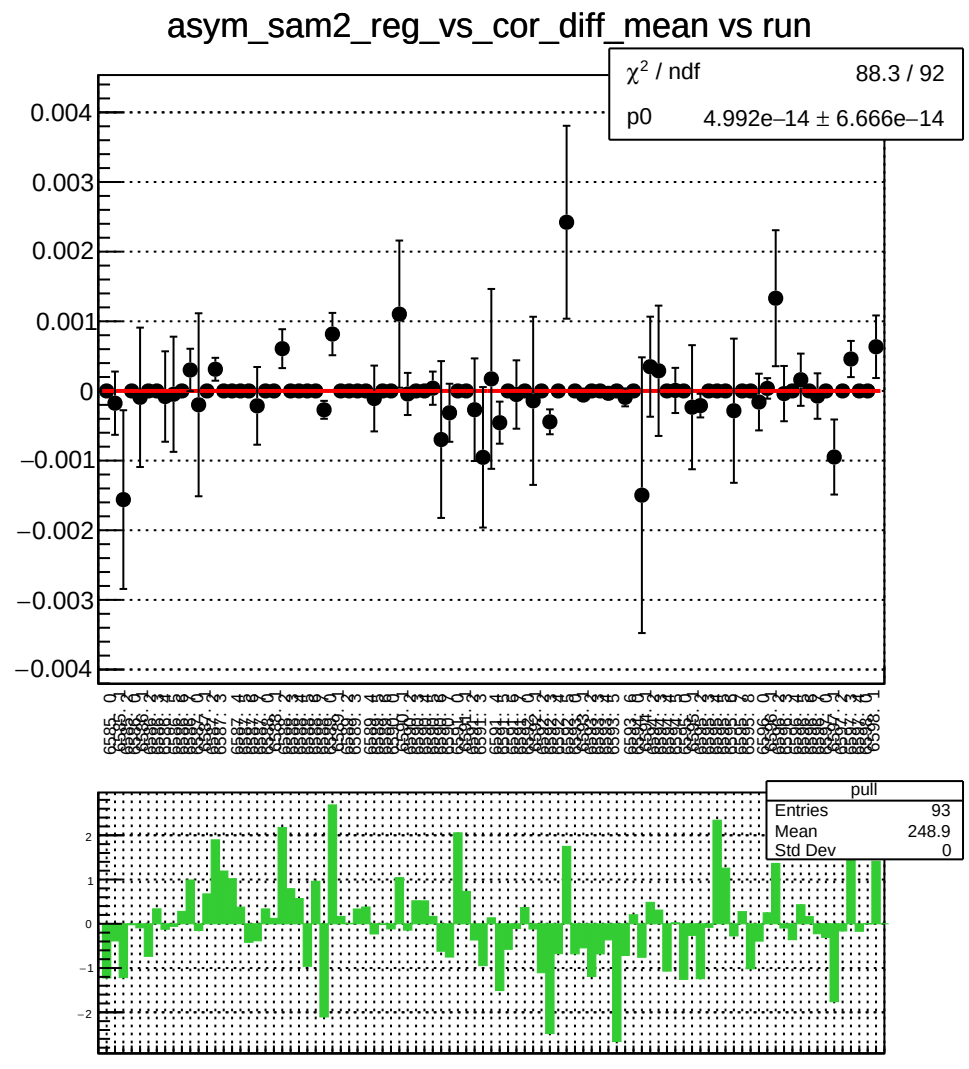

pull1D
Entries 93
Mean 0.003208
Std Dev 1.099

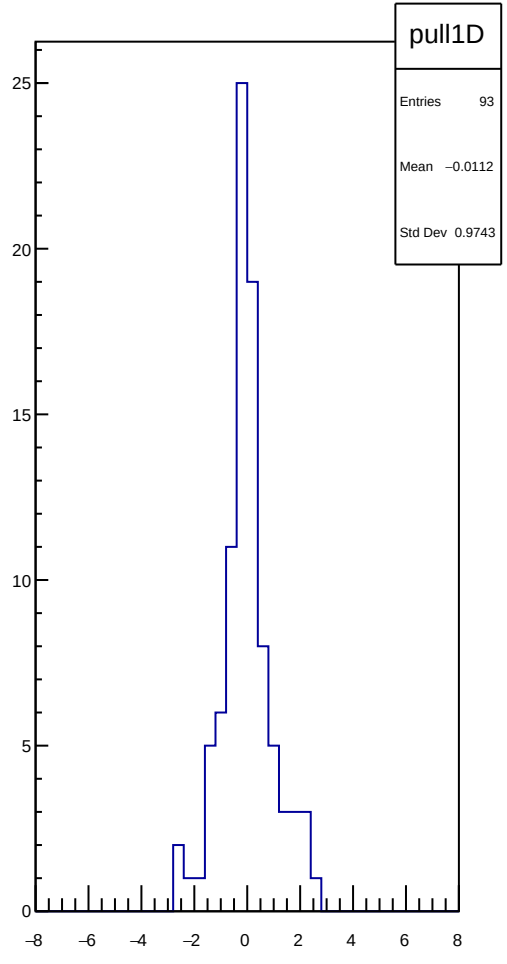

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 9933 / 92
p0 1989 ± 1.499
2600
2400
2200
2000
1800

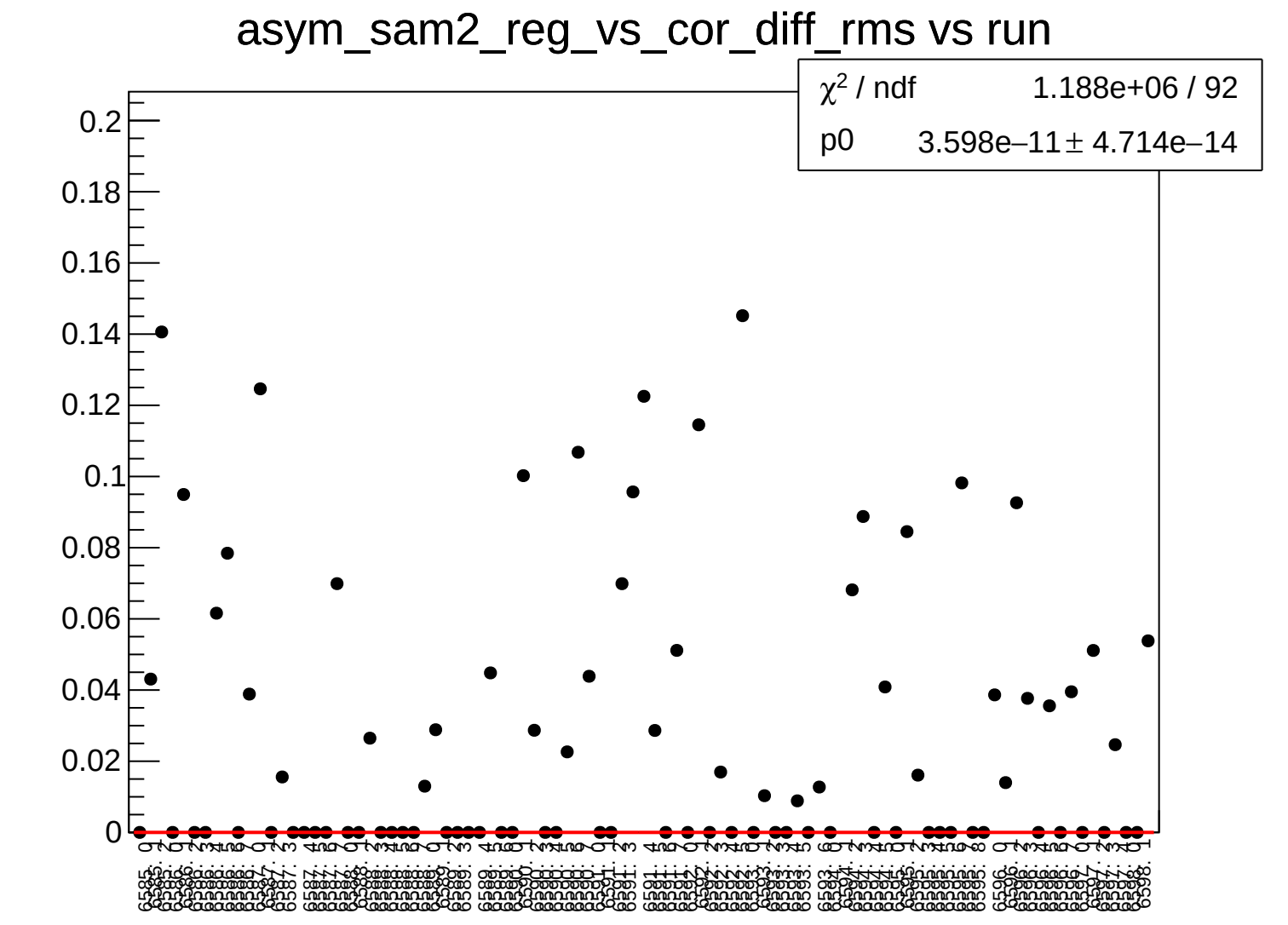

asym_sam2_mean vs run
×10^3
χ² / ndf 109.6 / 92
p0 1.475 ± 2093
pull
Entries 93
Mean 690.2
Std Dev 0

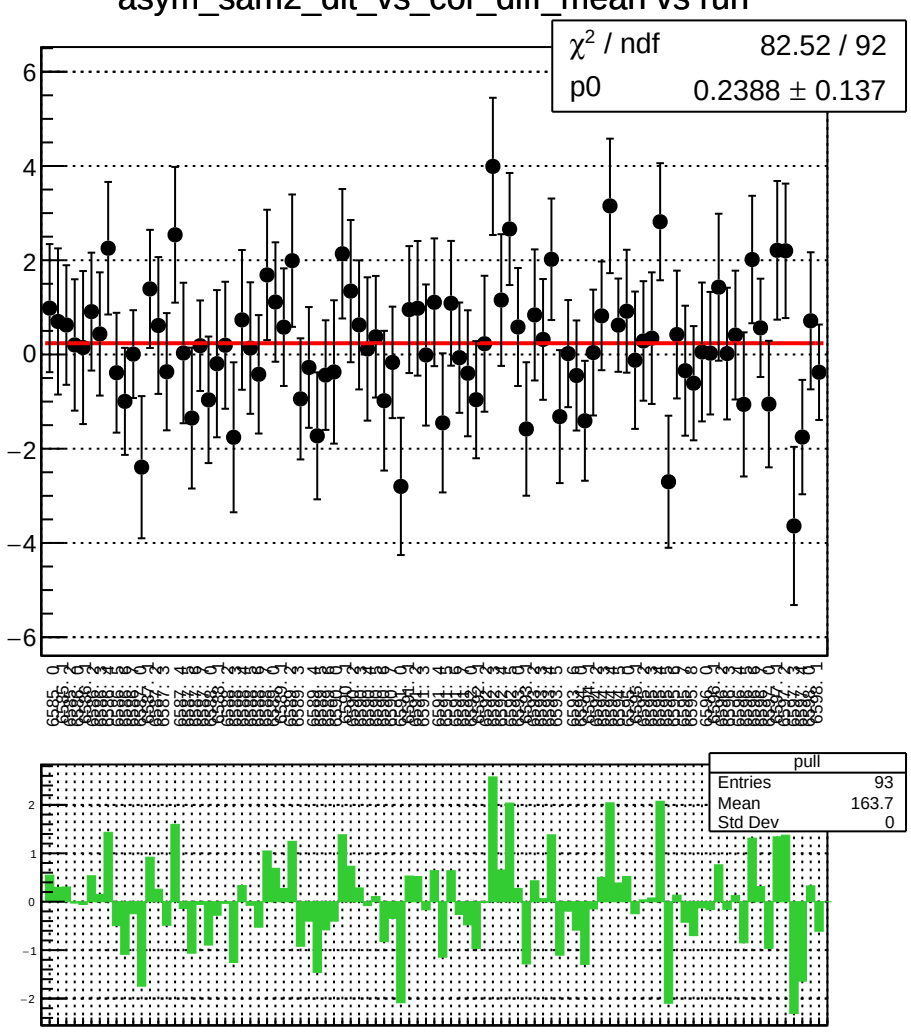

pull1D
Entries 93
Mean −0.003035
Std Dev 1.086

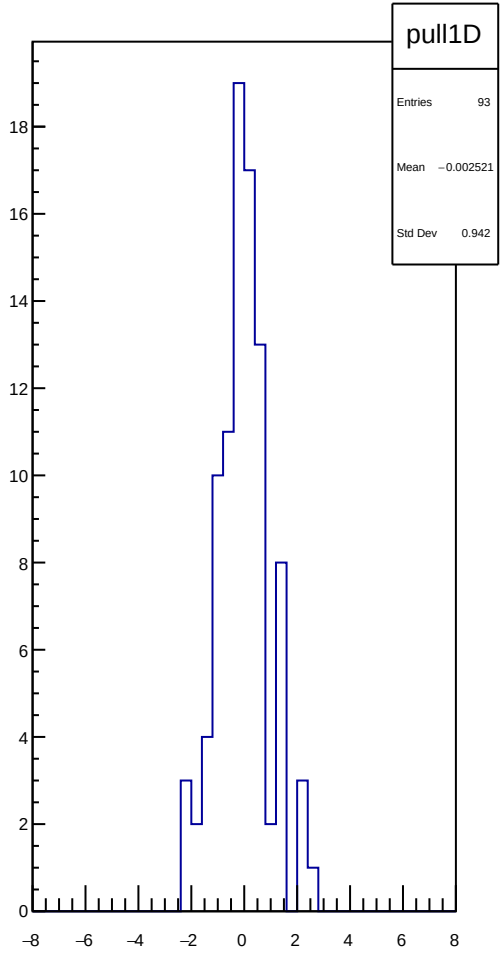

asym_sam2_rms vs run
χ² / ndf 1.173e+04 / 92
p0 1963 ± 1.48
2600
2400
2200
2000
1800
1600

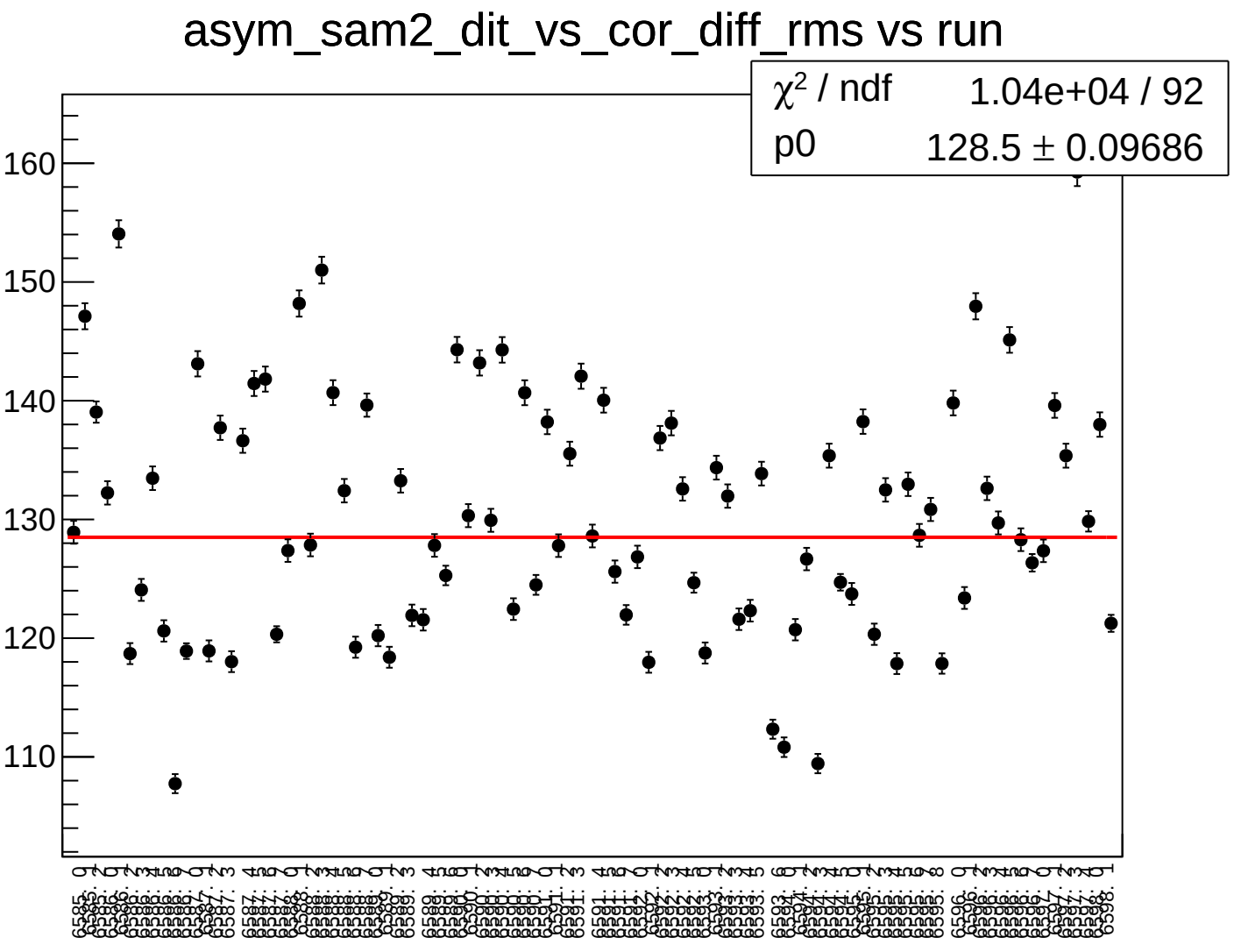

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 88.3 / 92
p0 4.992e−14 ± 6.666e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 93
Mean 248.9
Std Dev 0
2
1
0
−1
−2

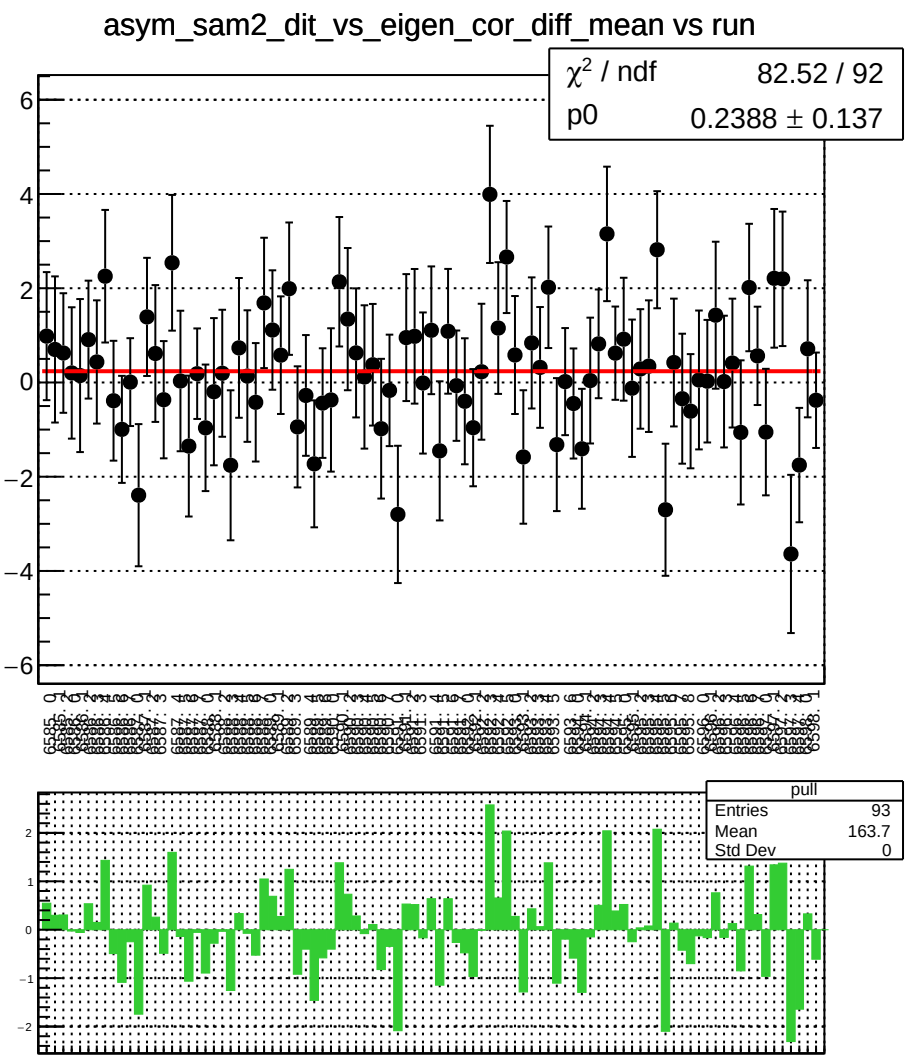

pull1D
Entries 93
Mean −0.0112
Std Dev 0.9743
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

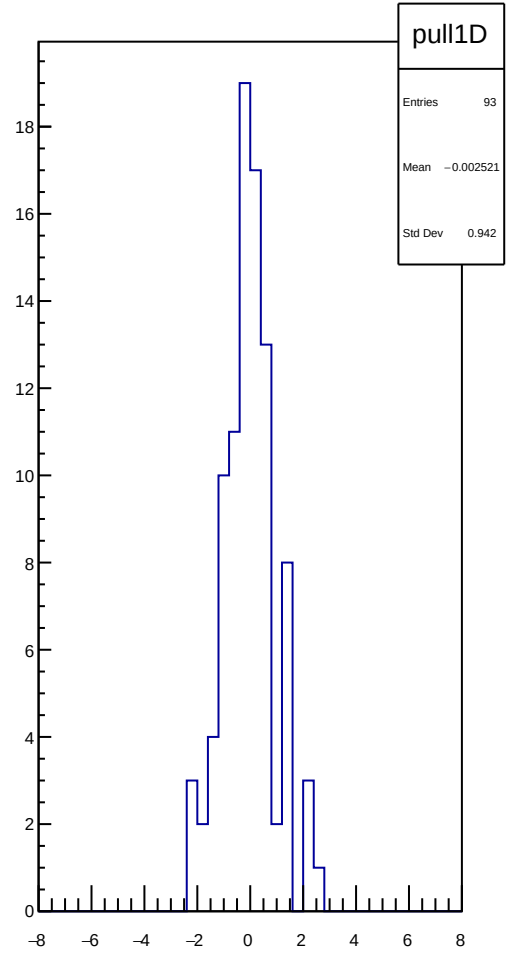

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.188e+06 / 92
p0 3.598e−11 ± 4.714e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

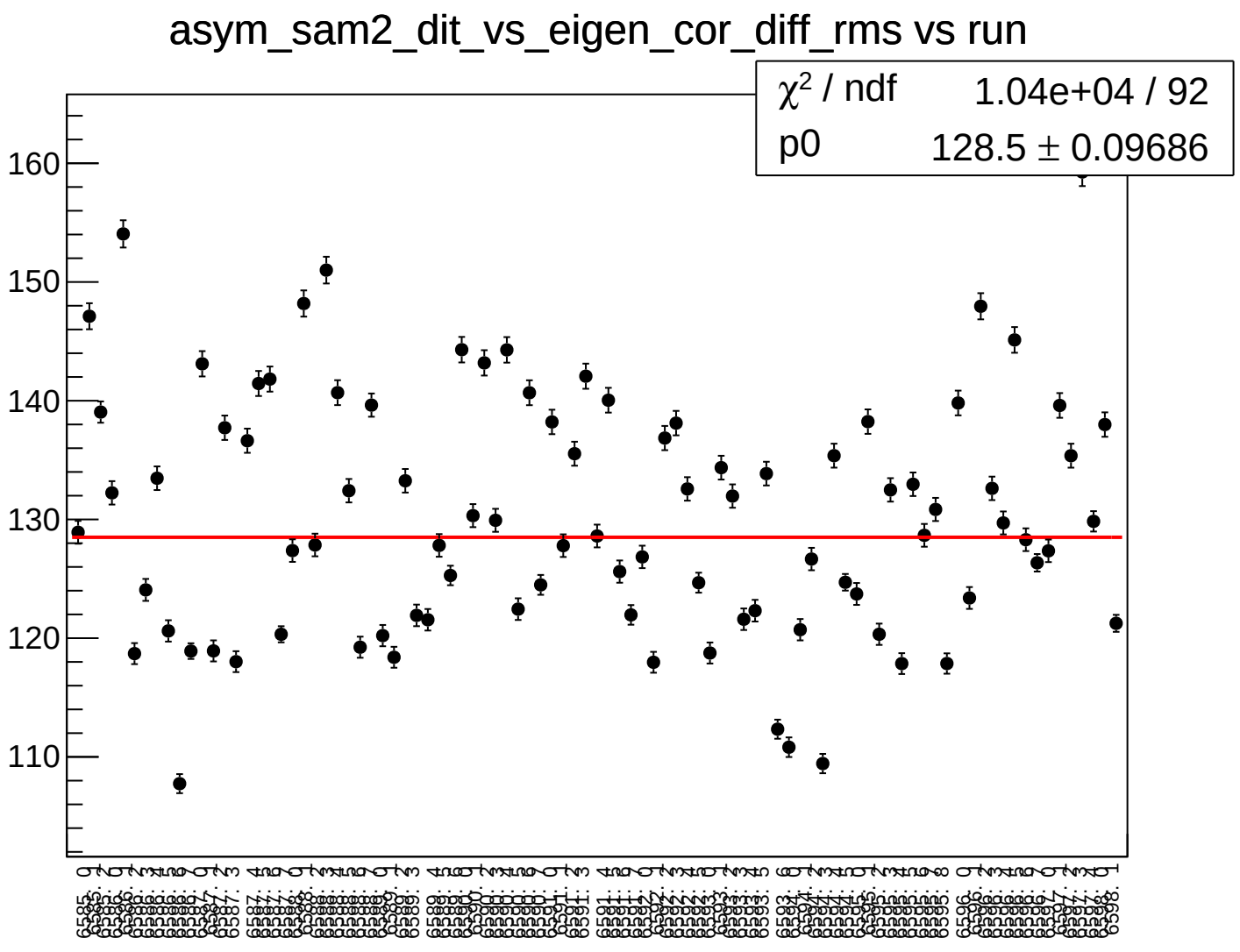

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 82.52 / 92
p0 0.2388 ± 0.137
pull
Entries 93
Mean 163.7
Std Dev 0

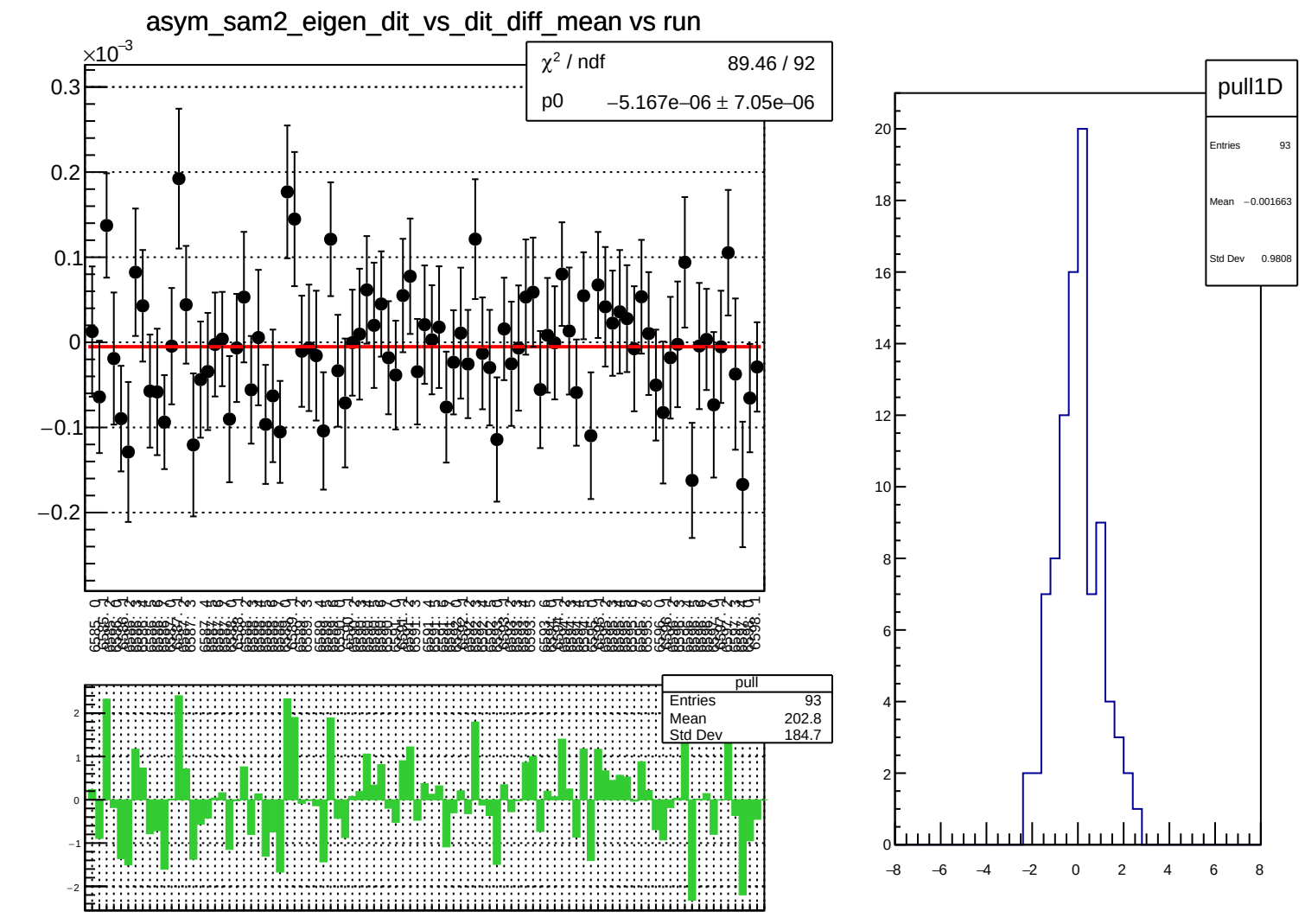

pull1D
Entries 93
Mean −0.002521
Std Dev 0.942

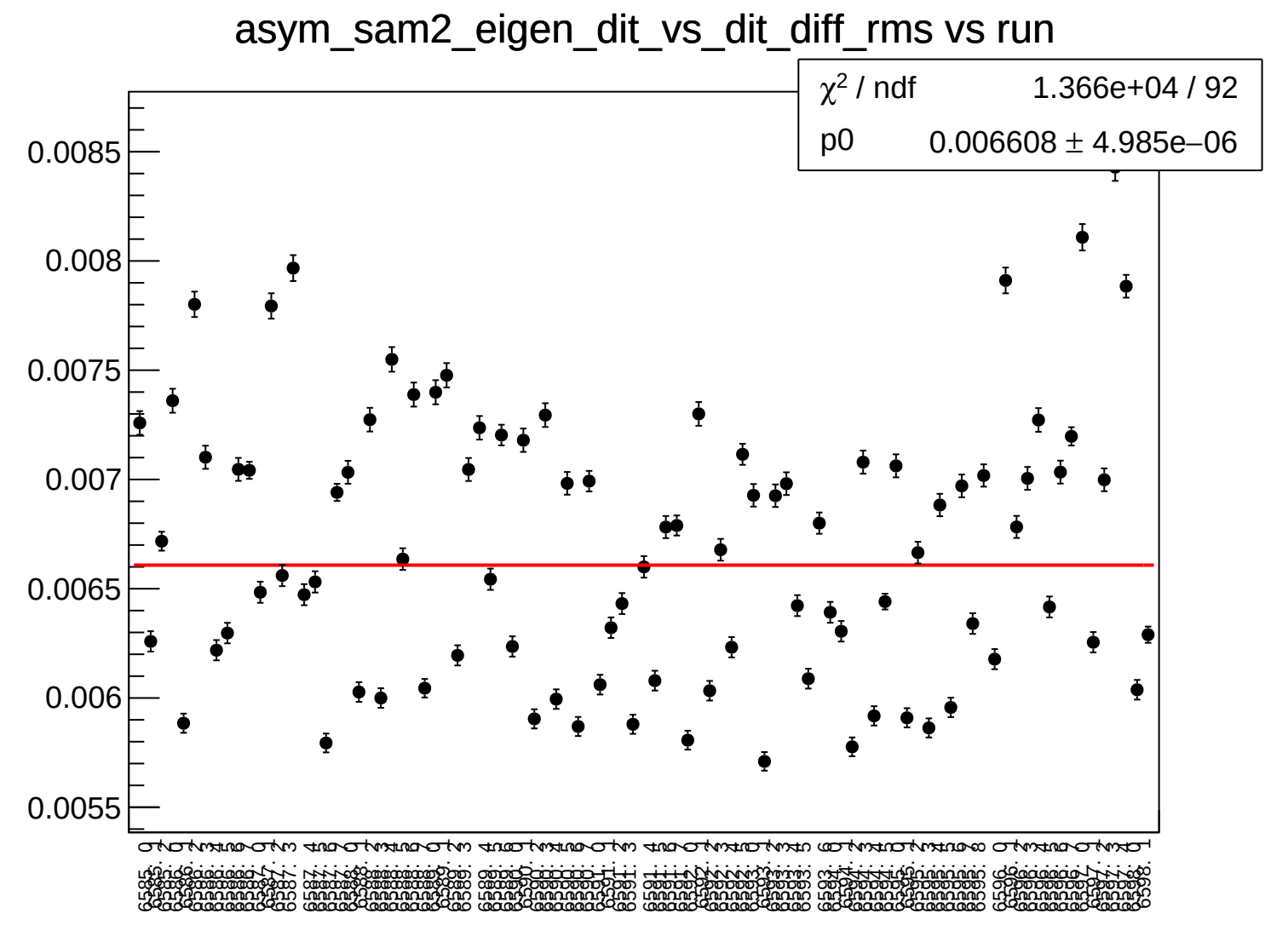

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.04e+04 / 92
p0 128.5 ± 0.09686
160
150
140
130
120
110

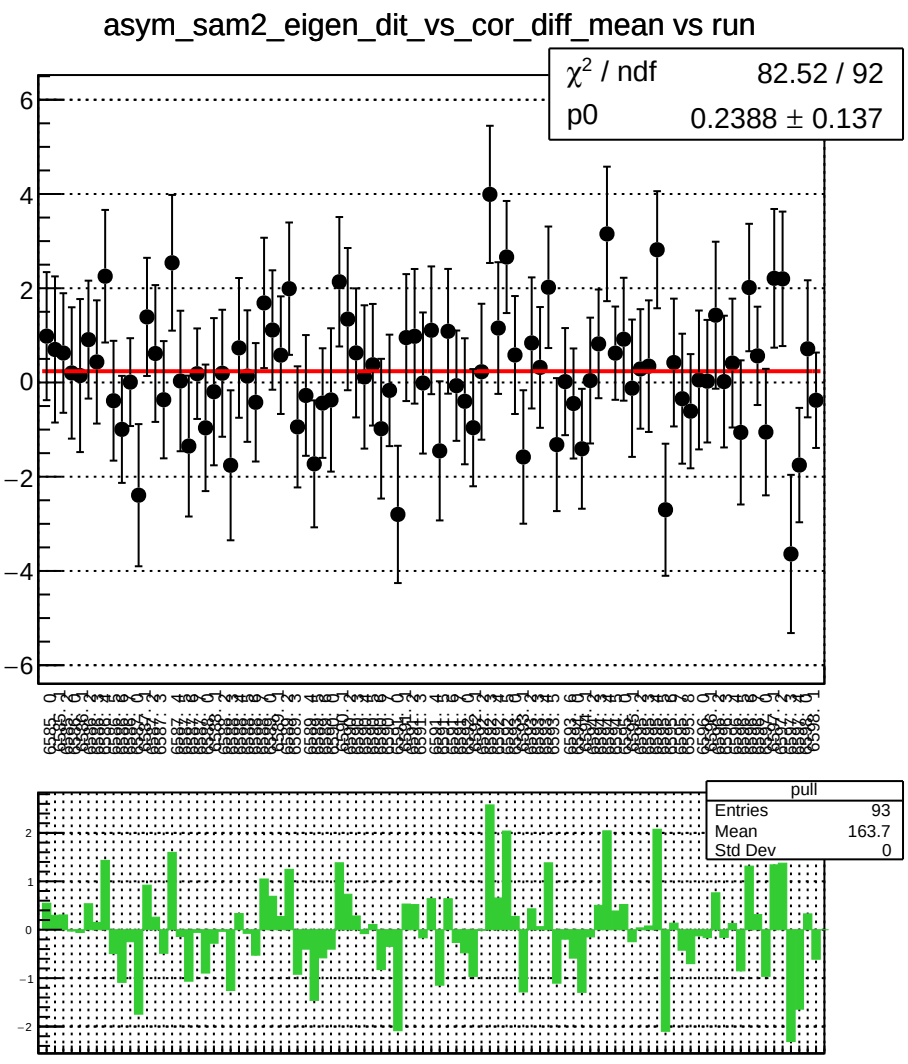

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.52 / 92
p0 0.2388 ± 0.137
pull
Entries 93
Mean 163.7
Std Dev 0

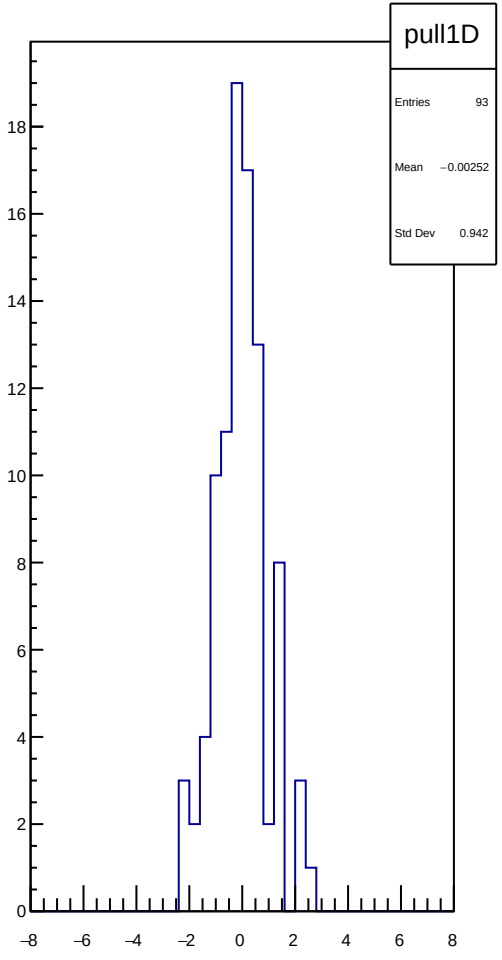

pull1D
Entries 93
Mean −0.002521
Std Dev 0.942

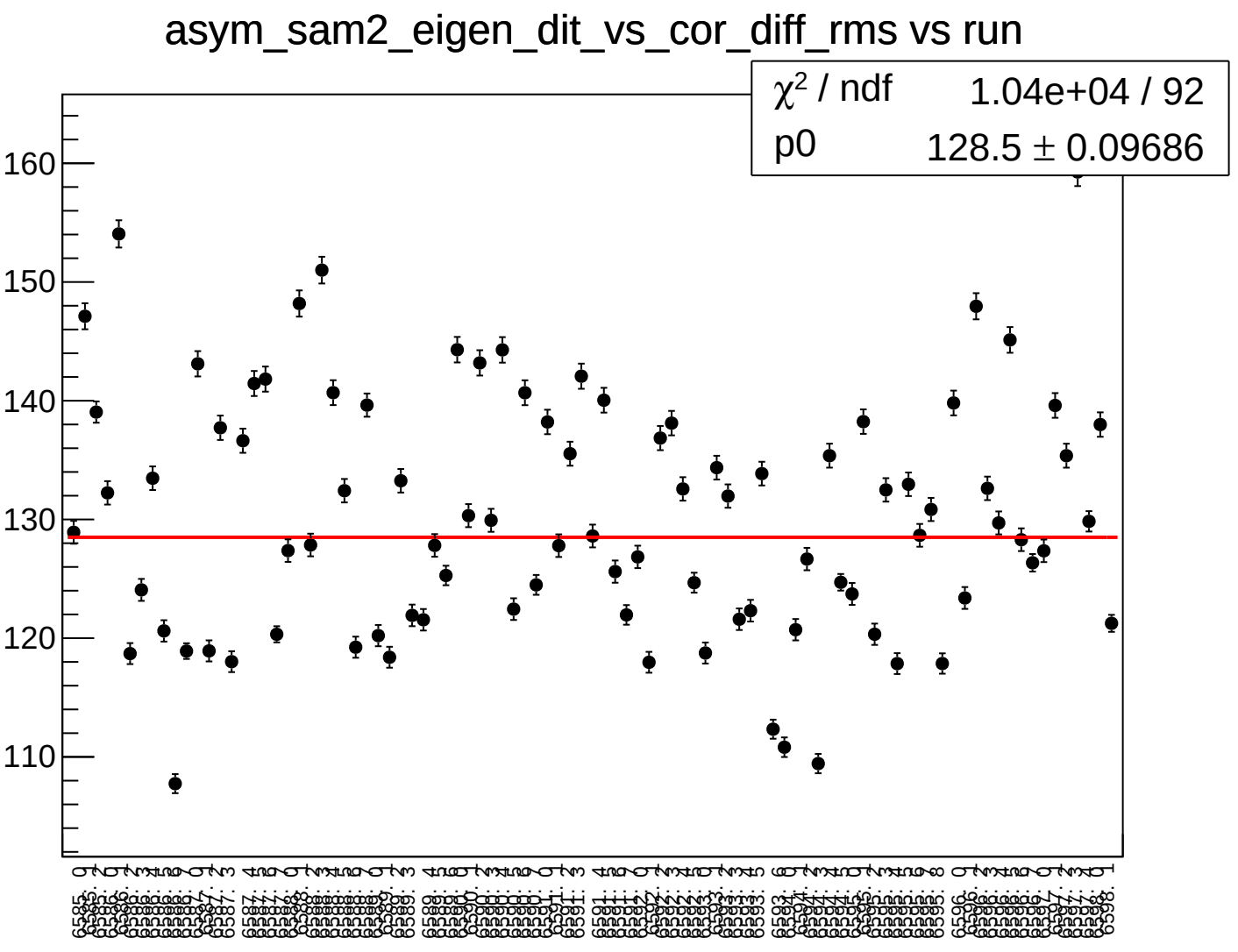

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.04e+04 / 92
p0 128.5 ± 0.09686
160
150
140
130
120
110

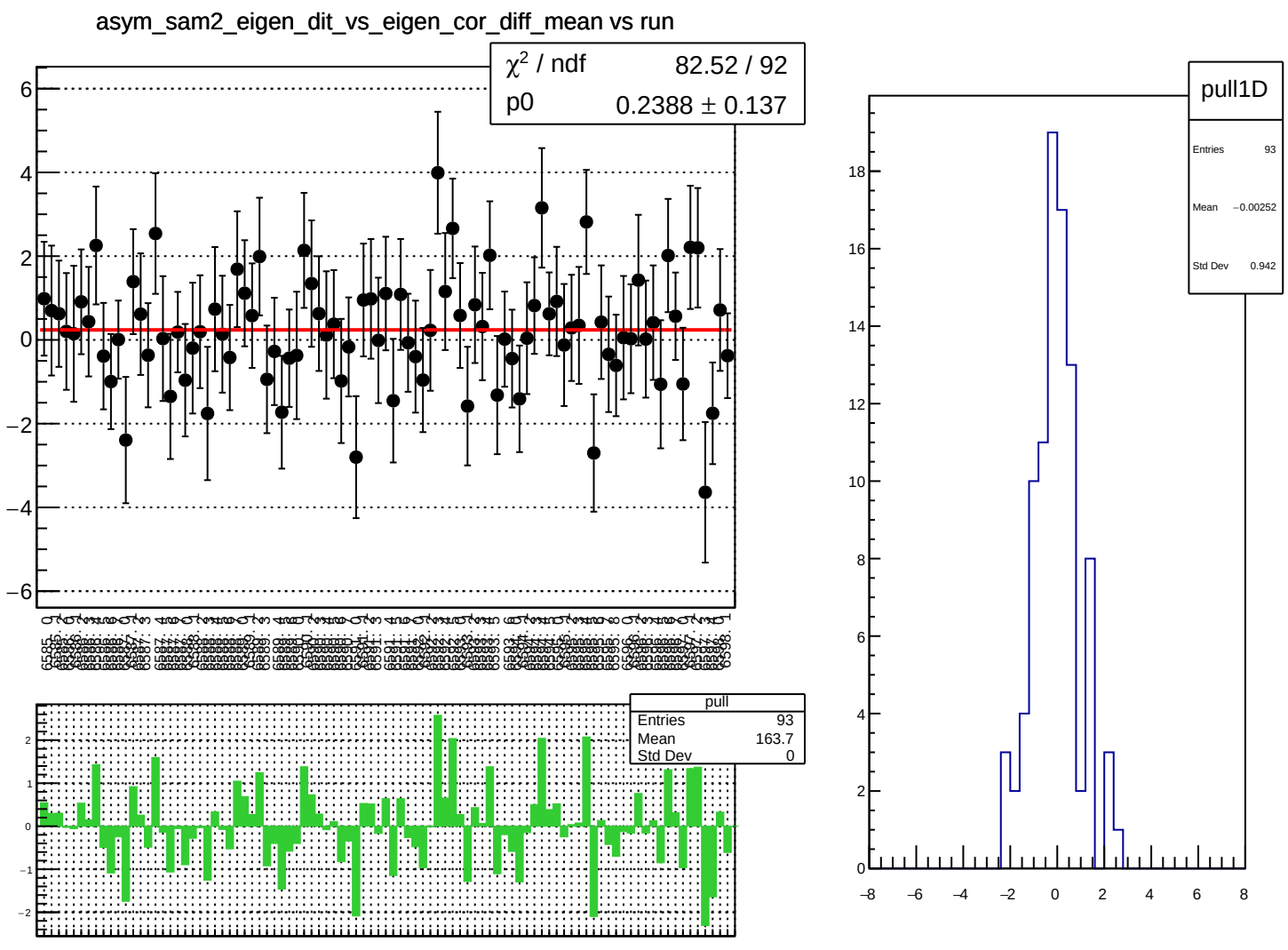

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.46 / 92
p0 −5.167e−06 ± 7.05e−06
pull
Entries 93
Mean 202.8
Std Dev 184.7
pull1D
Entries 93
Mean −0.001663
Std Dev 0.9808

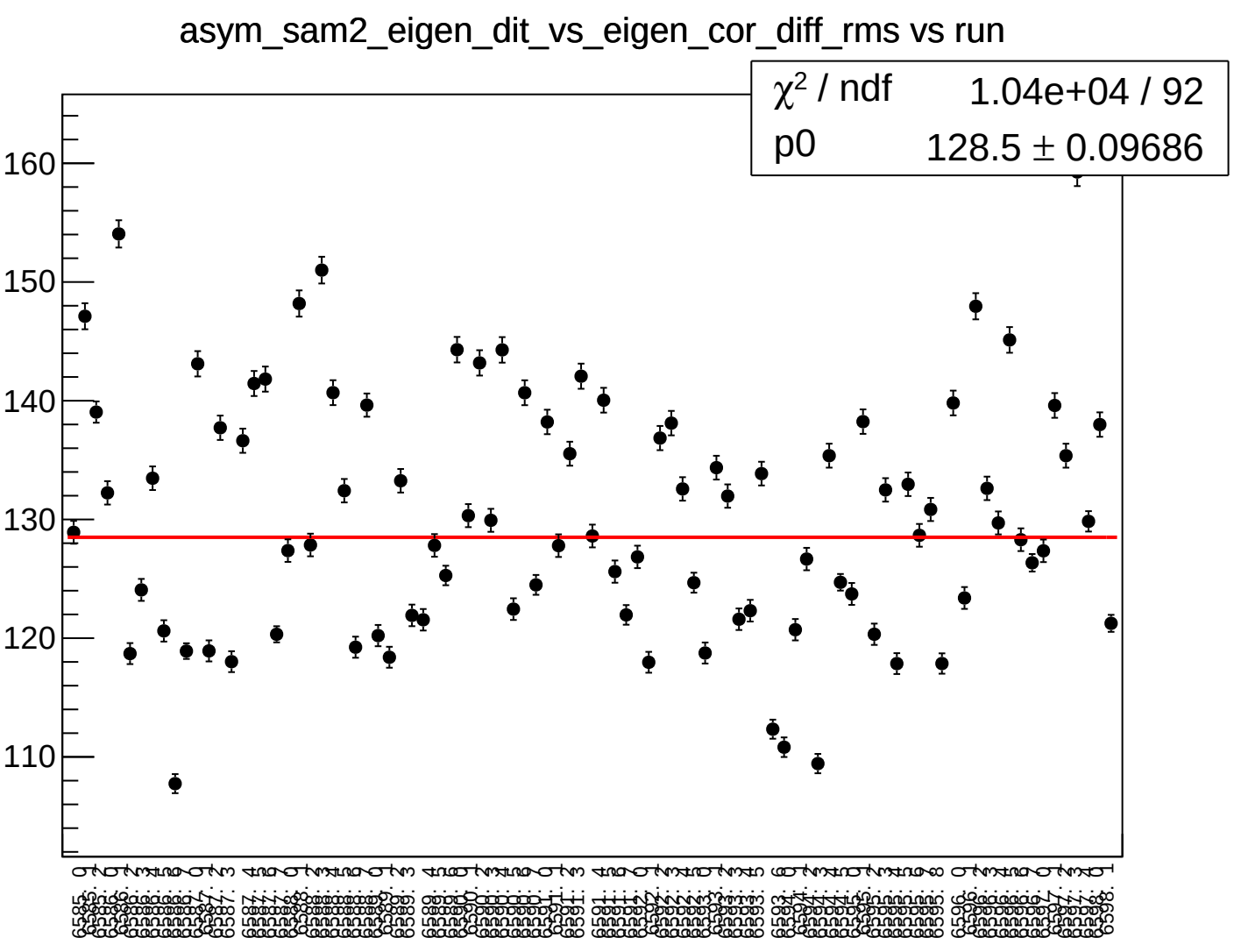

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.366e+04 / 92
p0 0.006608 ± 4.985e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

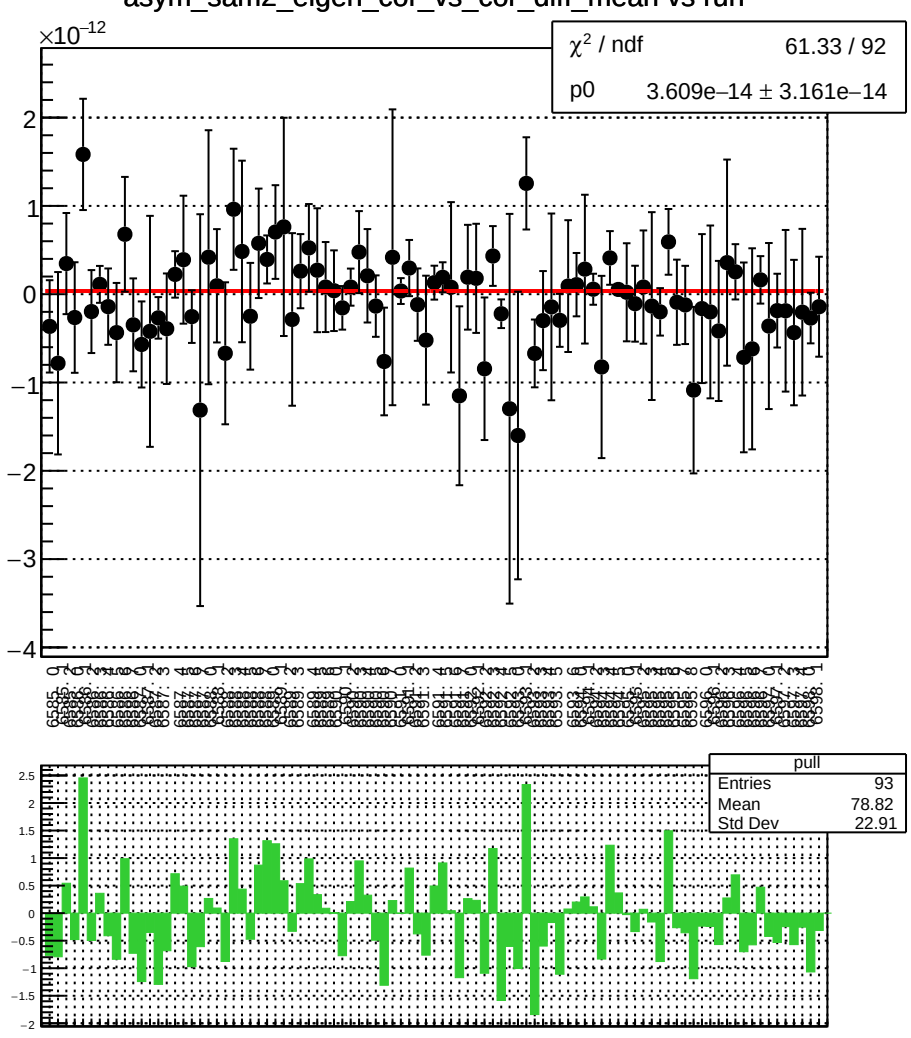

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.52 / 92
p0 0.2388 ± 0.137
pull
Entries 93
Mean 163.7
Std Dev 0

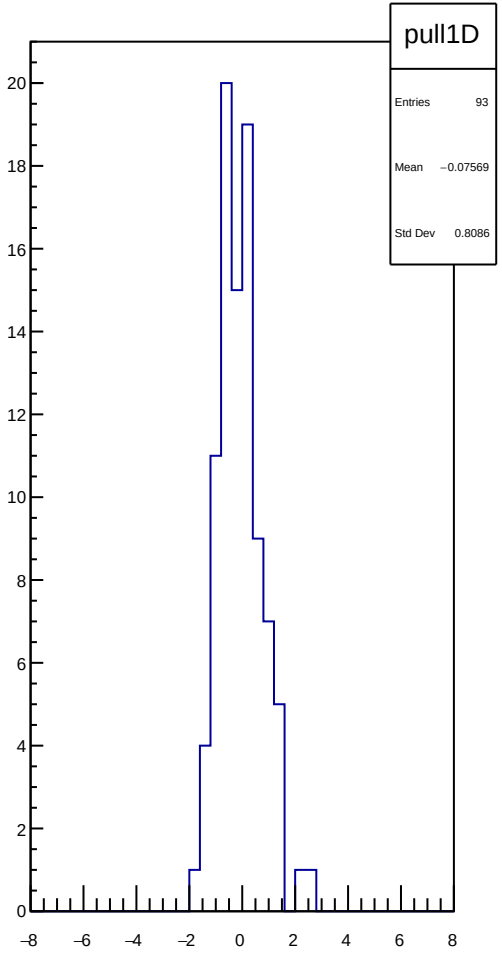

pull1D
Entries 93
Mean −0.00252
Std Dev 0.942

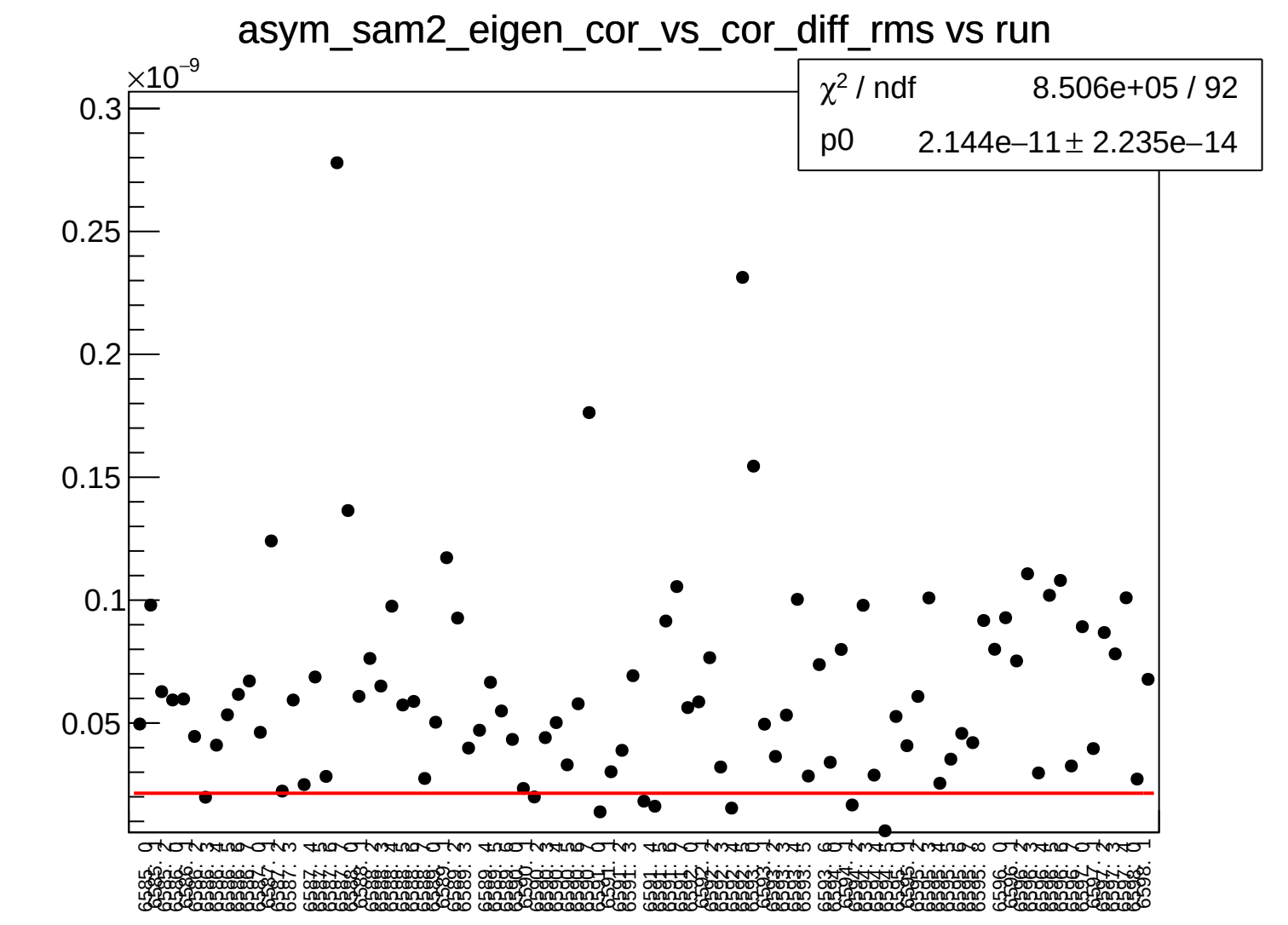

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.04e+04 / 92
p0 128.5 ± 0.09686
160
150
140
130
120
110

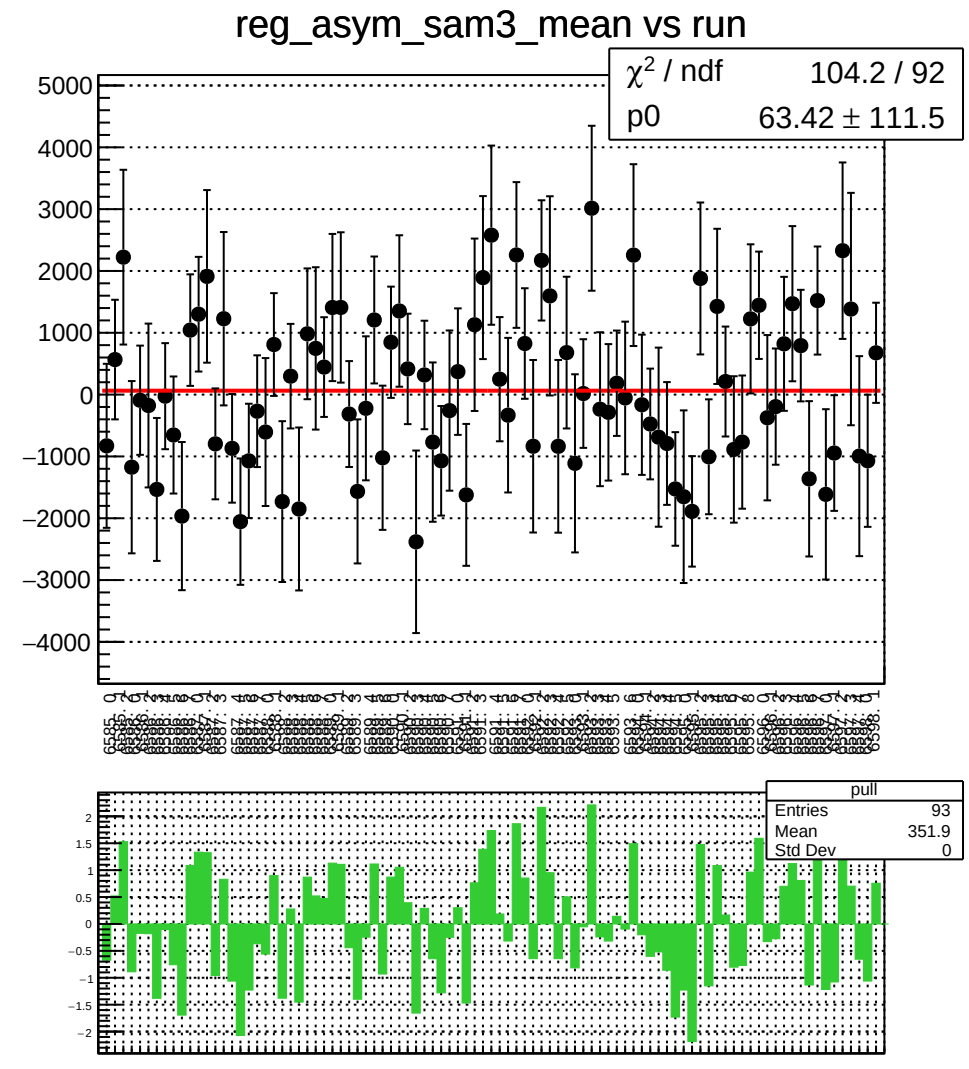

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.52 / 92
p0 0.2388 ± 0.137
pull
Entries 93
Mean 163.7
Std Dev 0
pull1D
Entries 93
Mean −0.00252
Std Dev 0.942

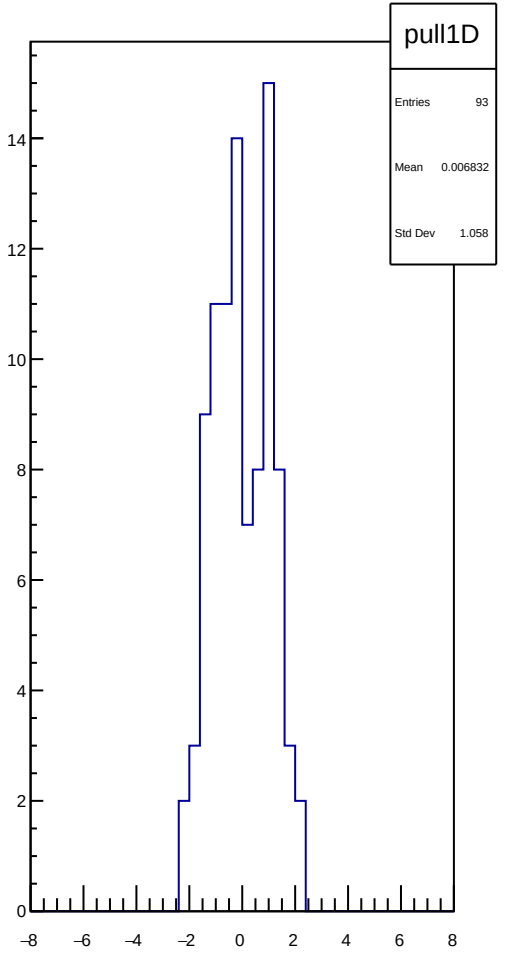

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.04e+04 / 92
p0 128.5 ± 0.09686
160
150
140
130
120
110

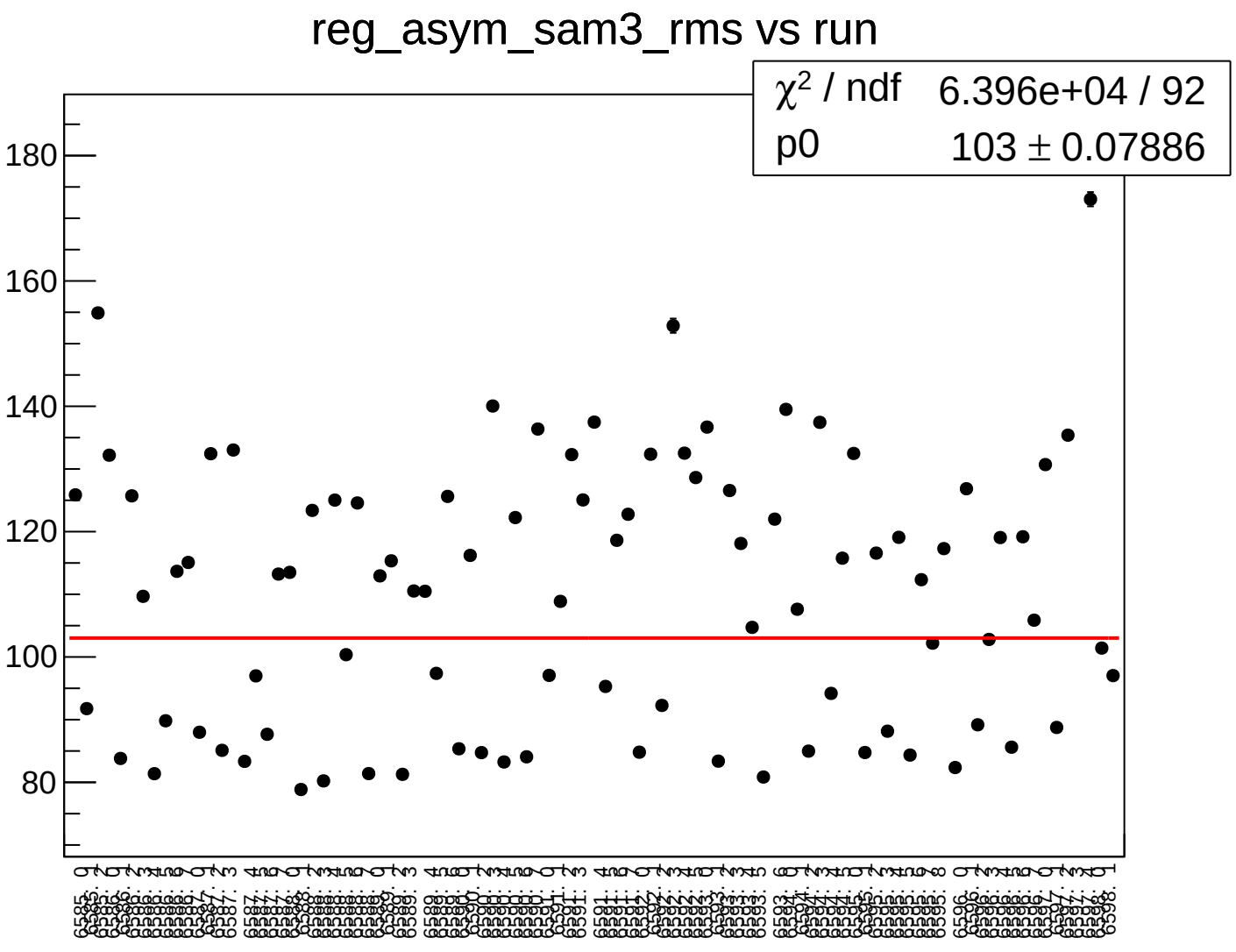

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 61.33 / 92
p0 3.609e−14 ± 3.161e−14
pull
Entries 93
Mean 78.82
Std Dev 22.91

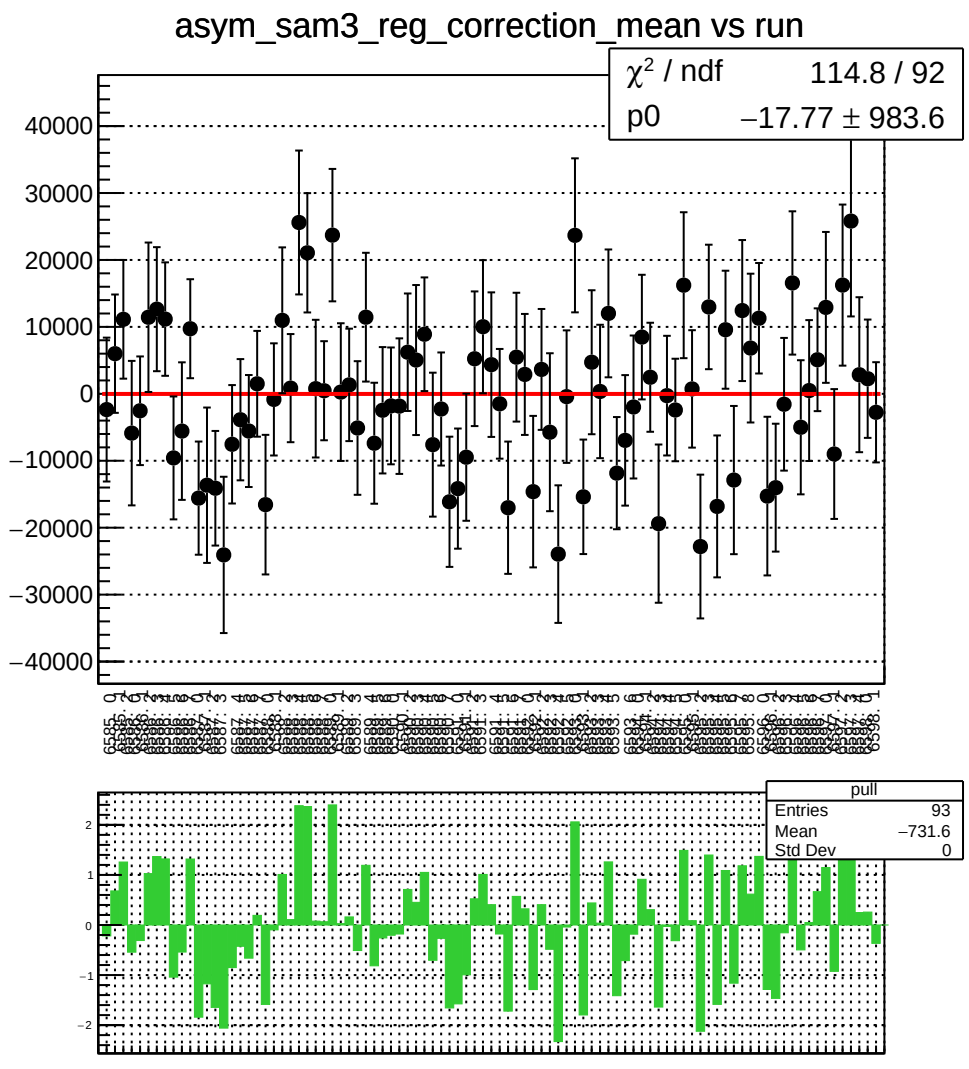

pull1D
Entries 93
Mean −0.07569
Std Dev 0.8086

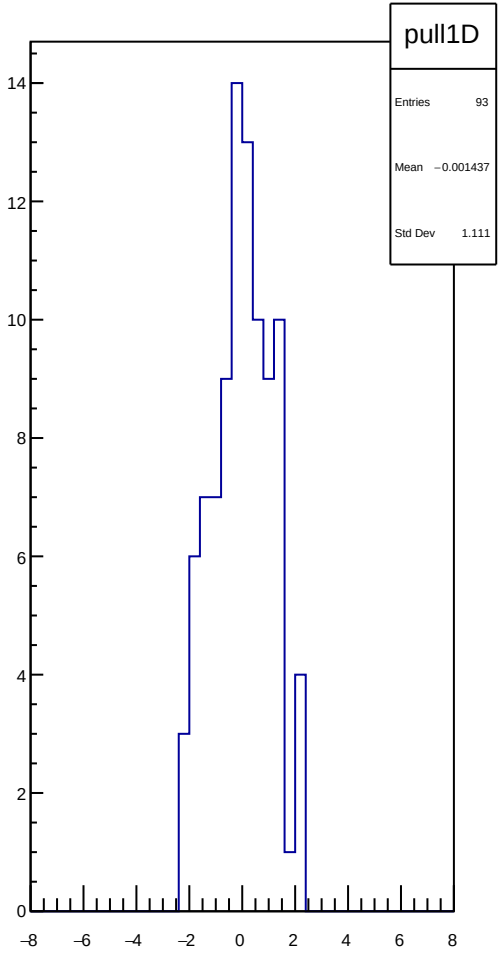

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.506e+05 / 92
p0 2.144e−11 ± 2.235e−14
0.3
0.25
0.2
0.15
0.1
0.05

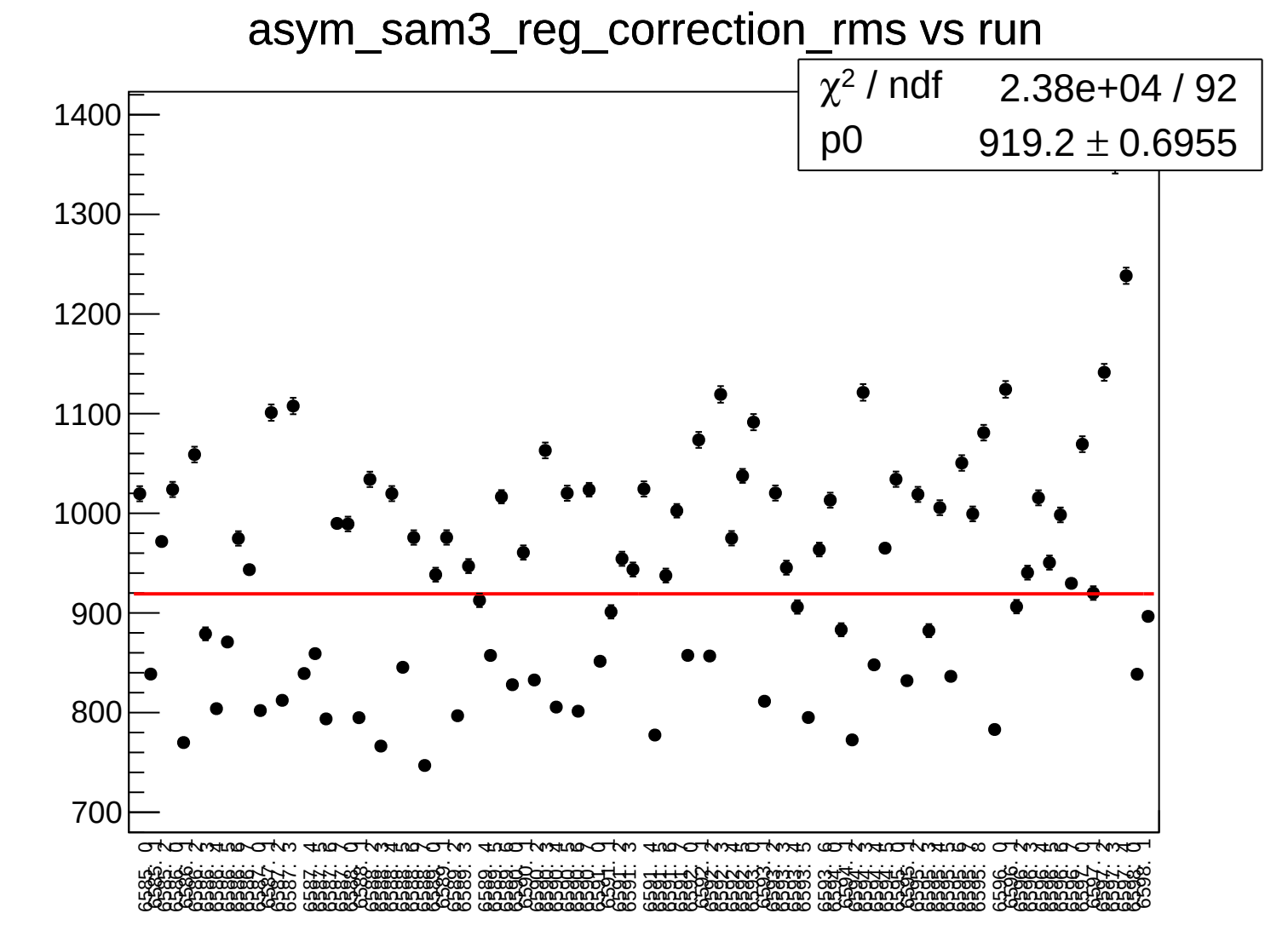

reg_asym_sam3_mean vs run
χ² / ndf 104.2 / 92
p0 63.42 ± 111.5
pull
Entries 93
Mean 351.9
Std Dev 0

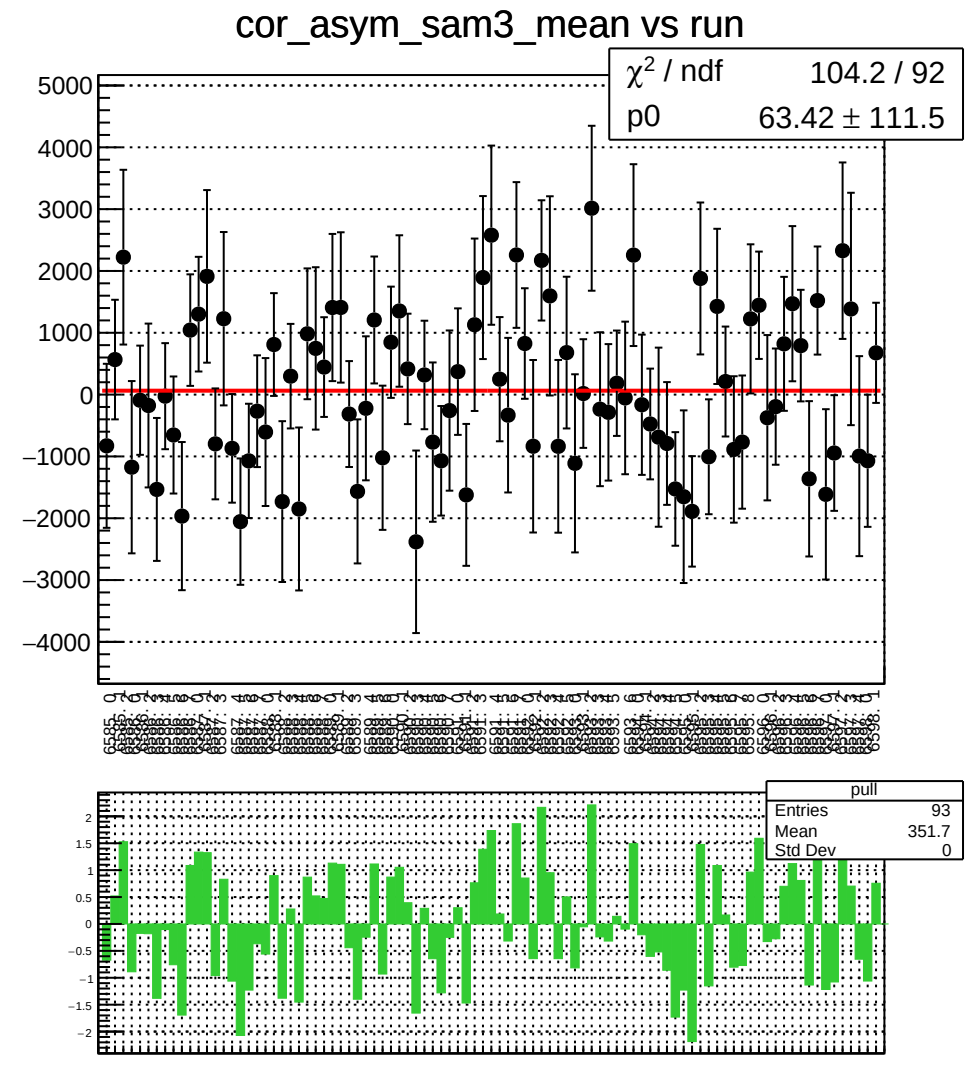

pull1D
Entries 93
Mean 0.006832
Std Dev 1.058

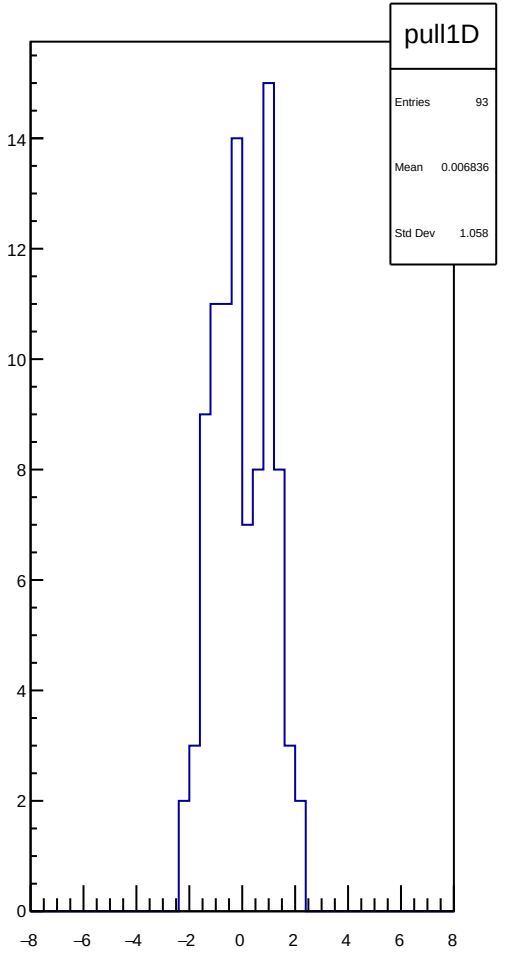

reg_asym_sam3_rms vs run
χ^2 / ndf 6.396e+04 / 92
p0 103 ± 0.07886
180
160
140
120
100
80

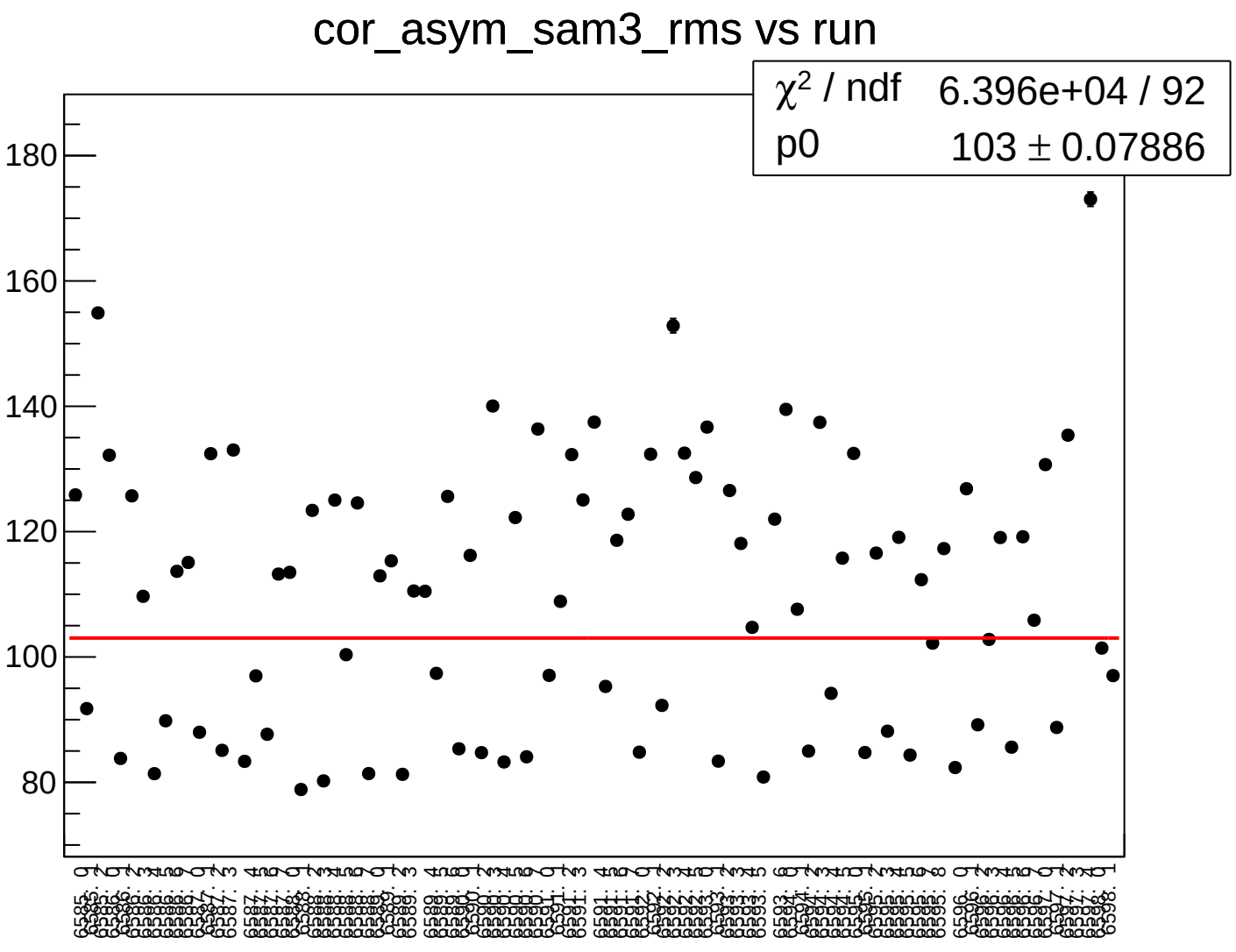

asym_sam3_reg_correction_mean vs run
χ² / ndf 114.8 / 92
p0 −17.77 ± 983.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −731.6
Std Dev 0
2
1
0
−1
−2

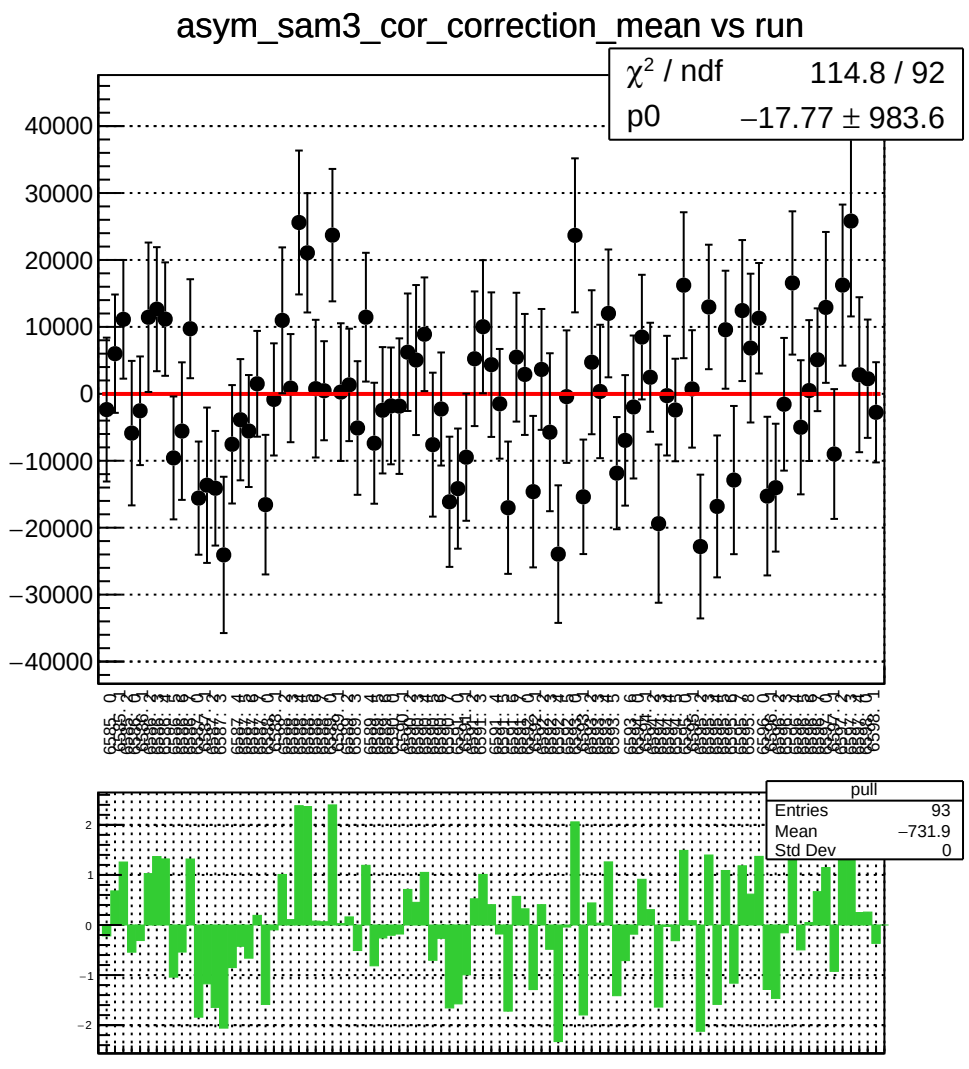

pull1D
Entries 93
Mean −0.001437
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

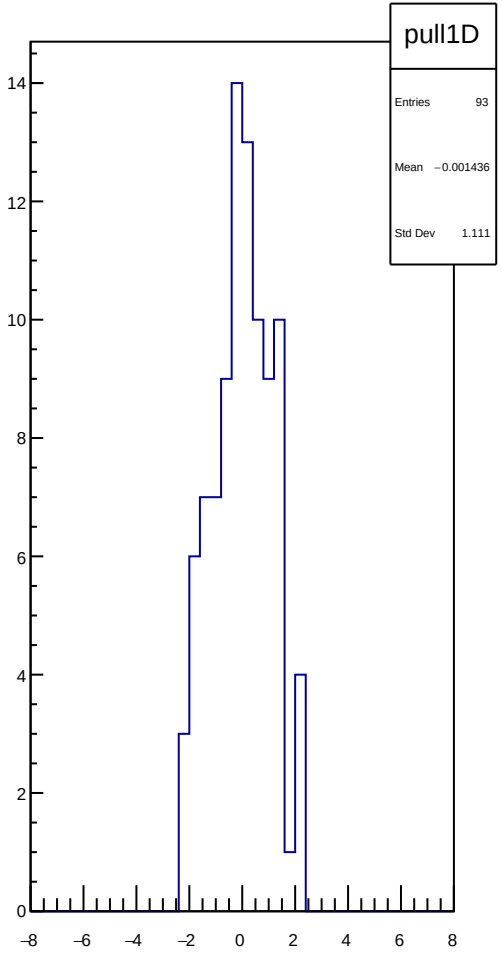

asym_sam3_reg_correction_rms vs run
χ² / ndf 2.38e+04 / 92
p0 919.2 ± 0.6955
1400
1300
1200
1100
1000
900
800
700

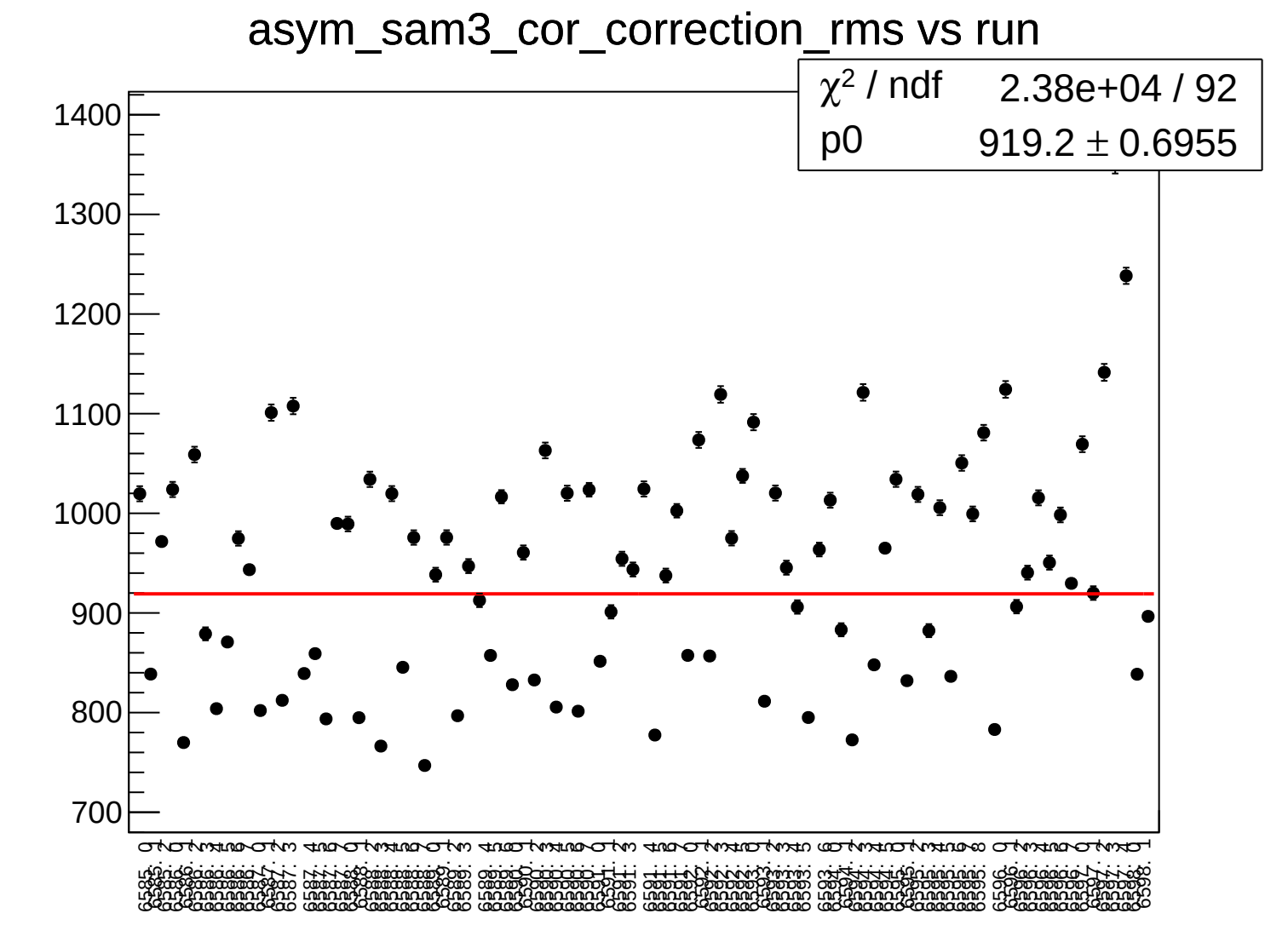

cor_asym_sam3_mean vs run
χ² / ndf 104.2 / 92
p0 63.42 ± 111.5
pull
Entries 93
Mean 351.7
Std Dev 0

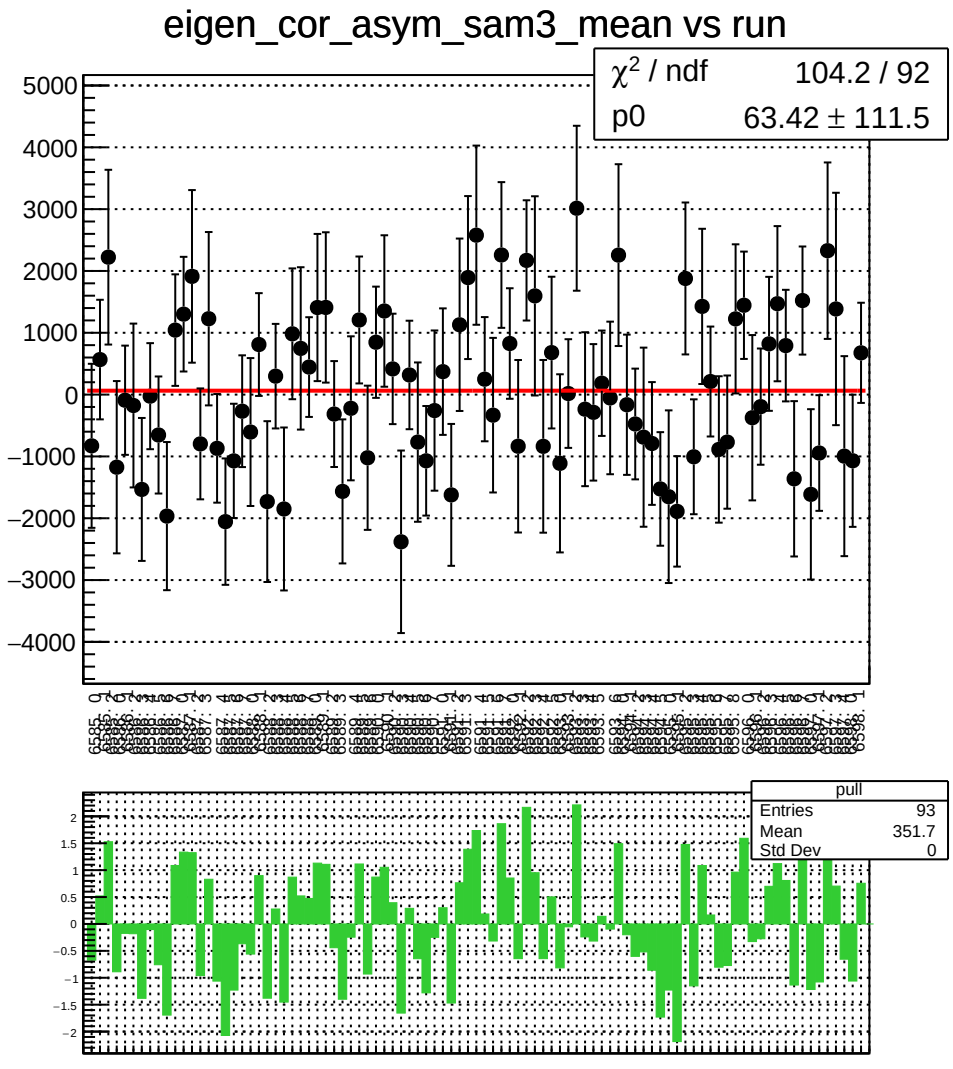

pull1D
Entries 93
Mean 0.006836
Std Dev 1.058

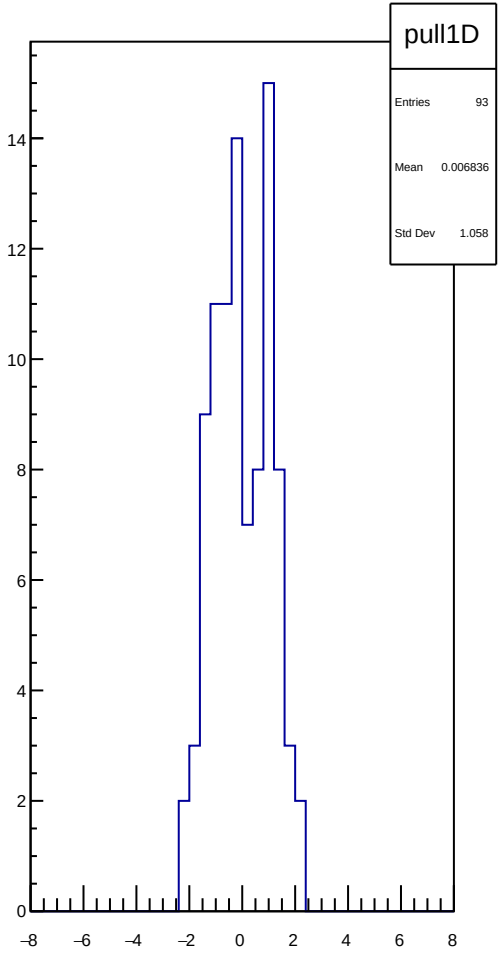

cor_asym_sam3_rms vs run
χ² / ndf 6.396e+04 / 92
p0 103 ± 0.07886
180
160
140
120
100
80

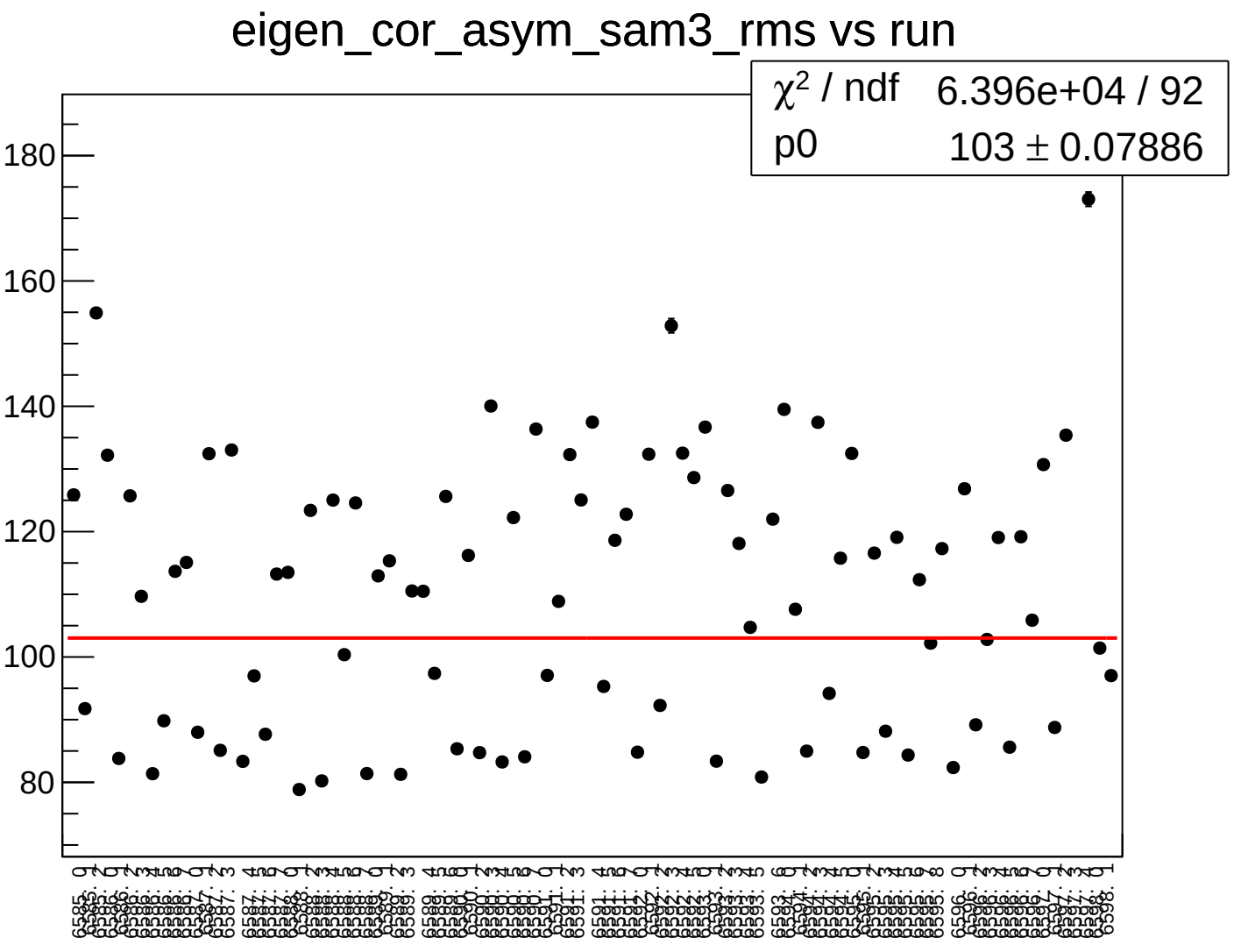

asym_sam3_cor_correction_mean vs run
χ² / ndf 114.8 / 92
p0 −17.77 ± 983.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −731.9
Std Dev 0
2
1
0
−1
−2

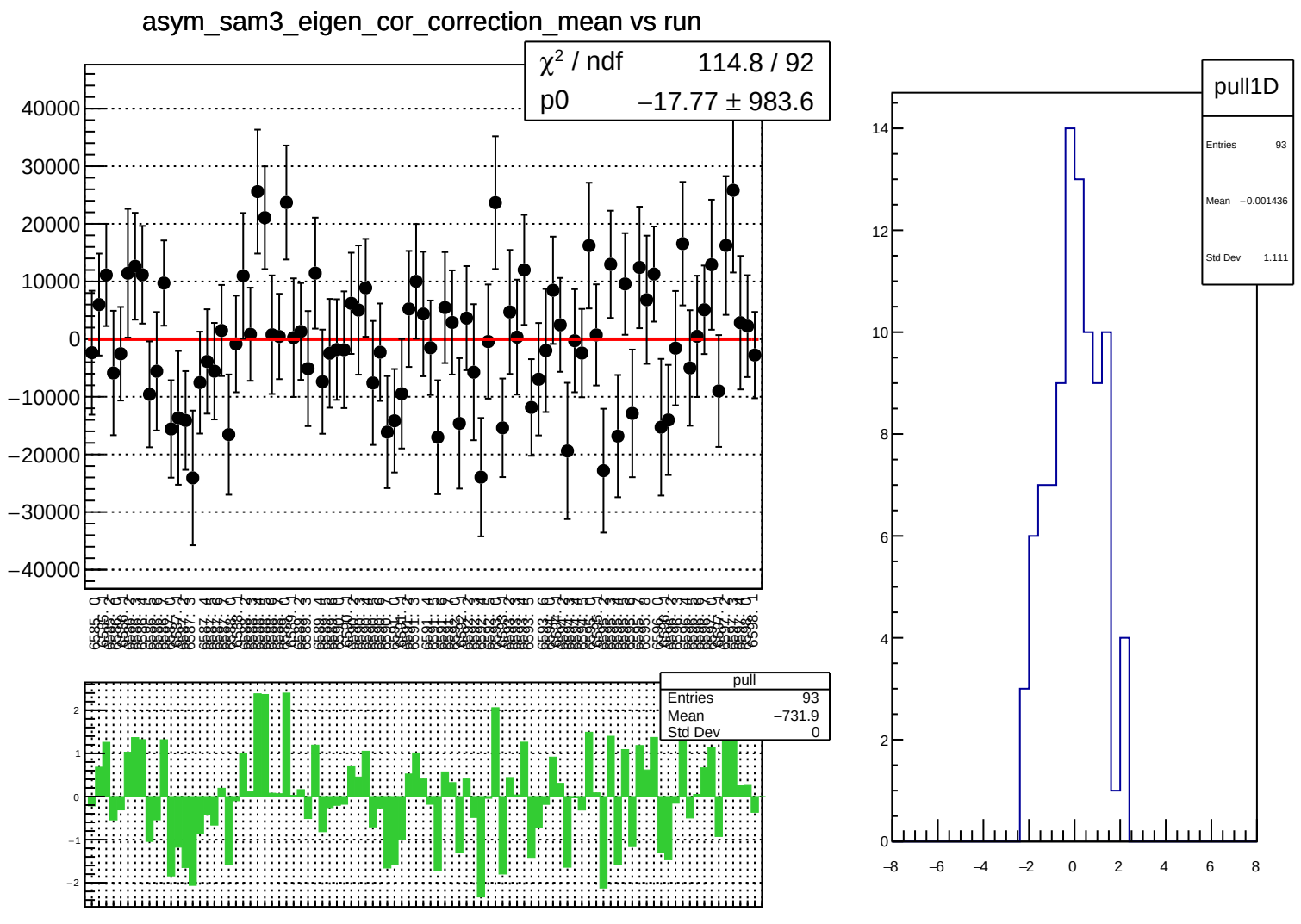

pull1D
Entries 93
Mean −0.001436
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

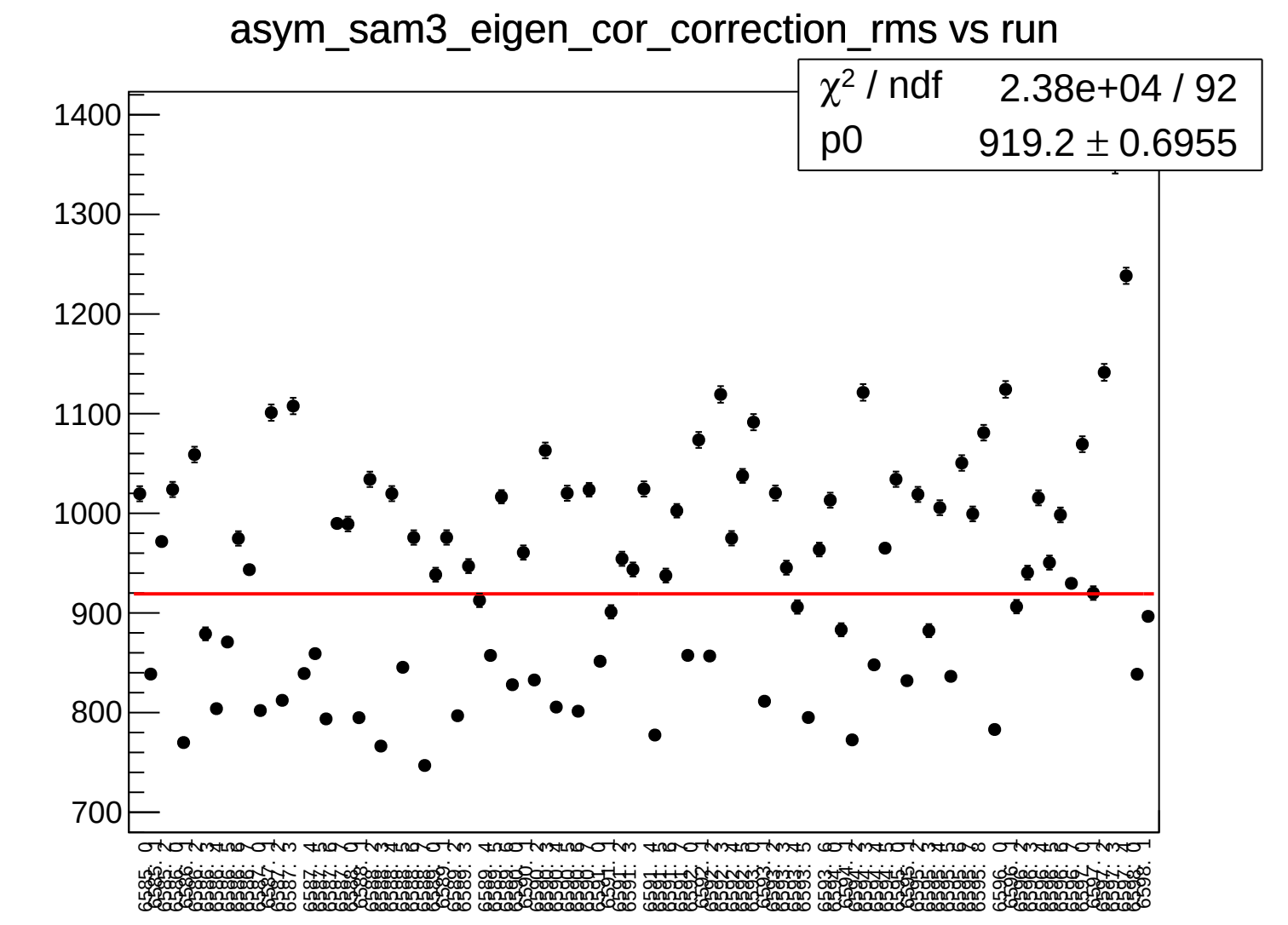

asym_sam3_cor_correction_rms vs run
χ² / ndf 2.38e+04 / 92
p0 919.2 ± 0.6955
1400
1300
1200
1100
1000
900
800
700

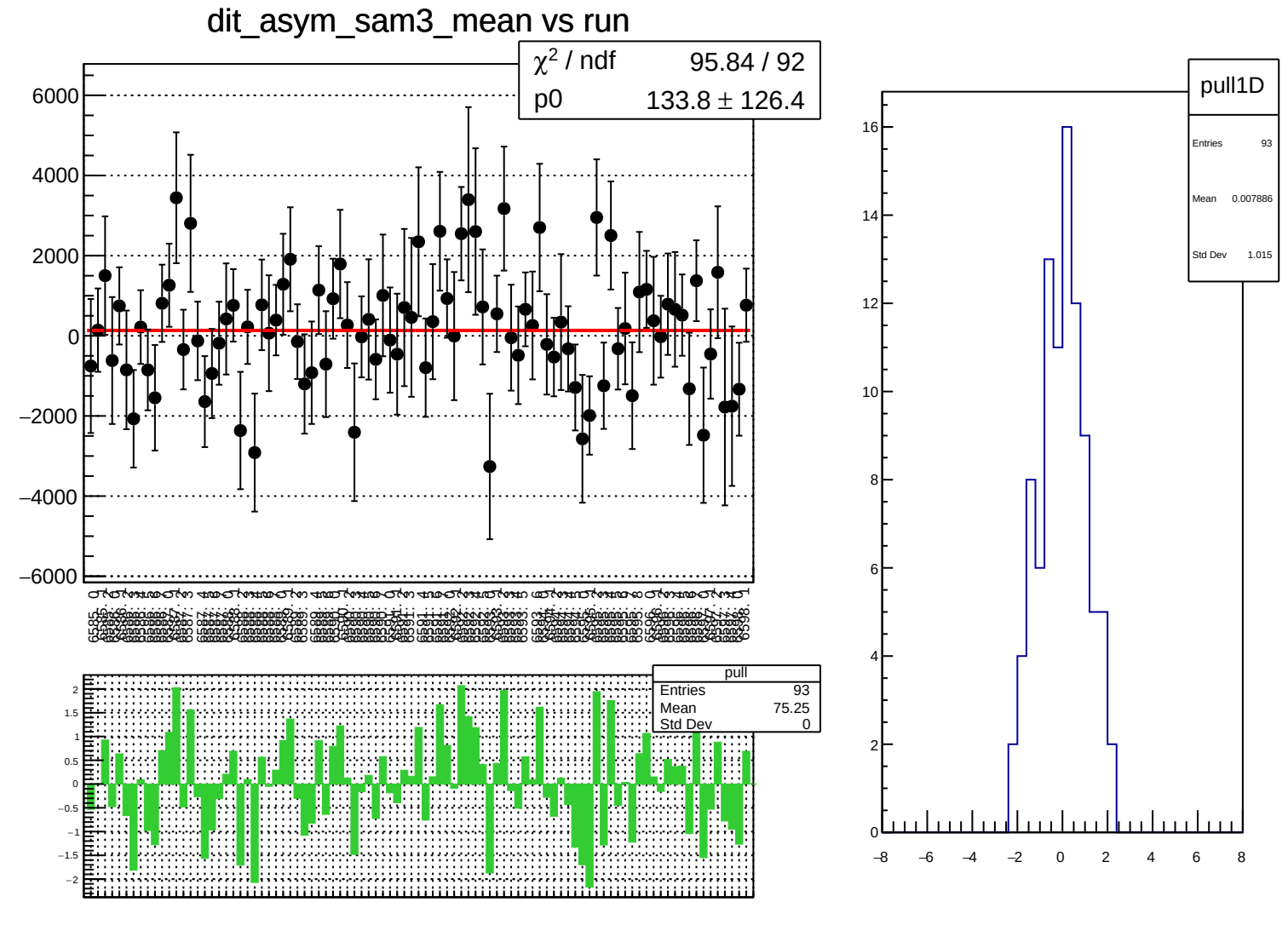

eigen_cor_asym_sam3_mean vs run
χ² / ndf 104.2 / 92
p0 63.42 ± 111.5
pull
Entries 93
Mean 351.7
Std Dev 0

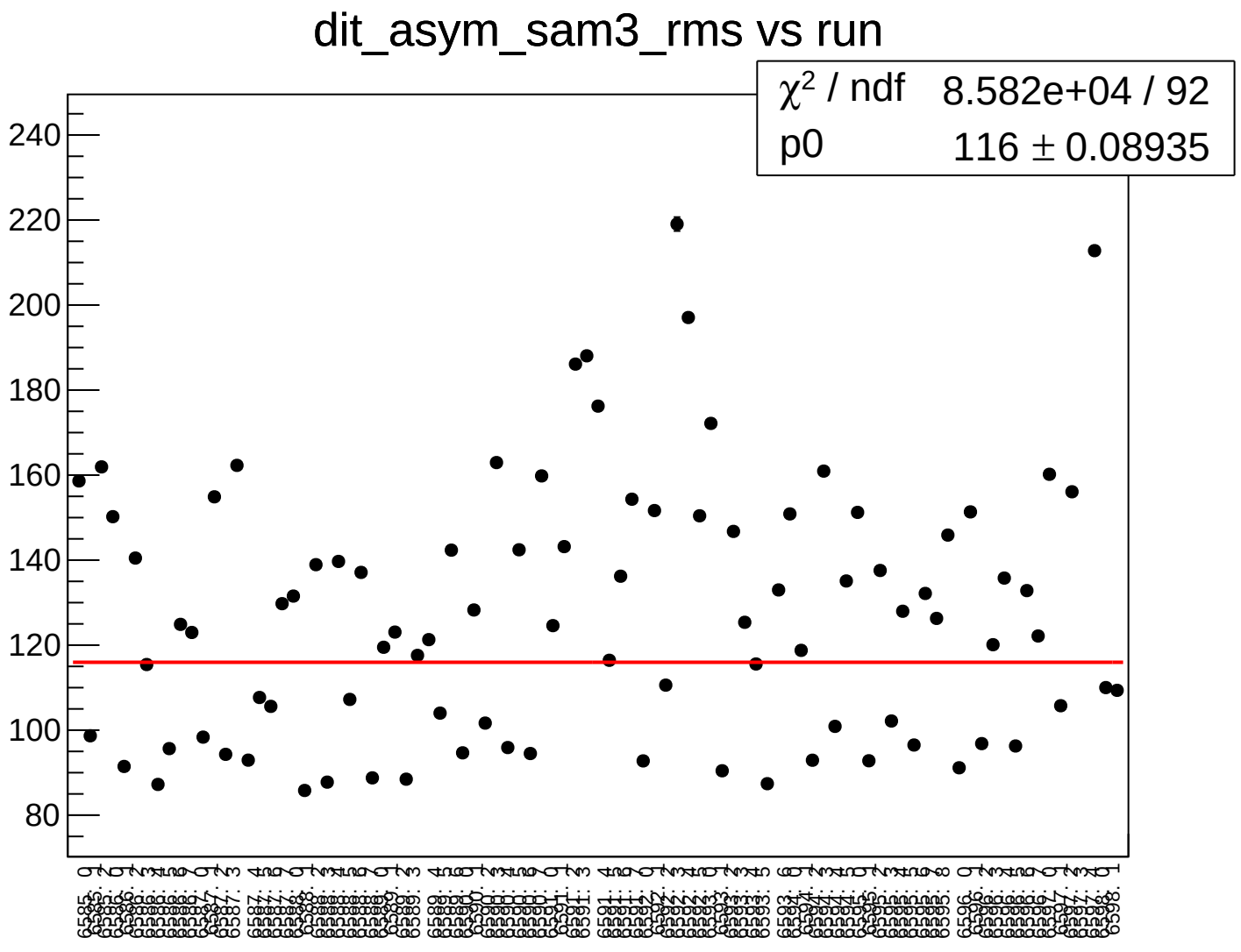

pull1D
Entries 93
Mean 0.006836
Std Dev 1.058

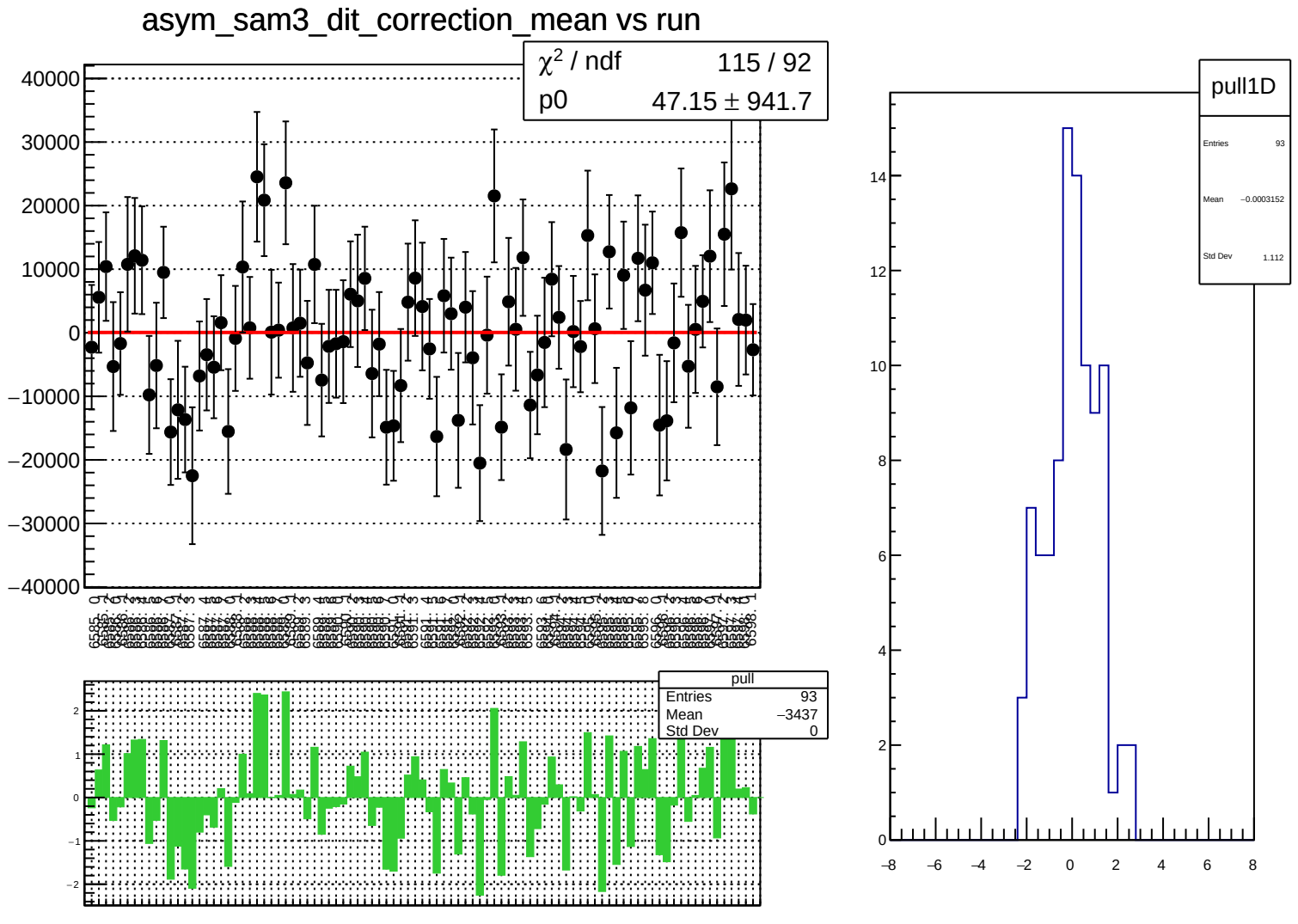

eigen_cor_asym_sam3_rms vs run
χ² / ndf 6.396e+04 / 92
p0 103 ± 0.07886
180
160
140
120
100
80

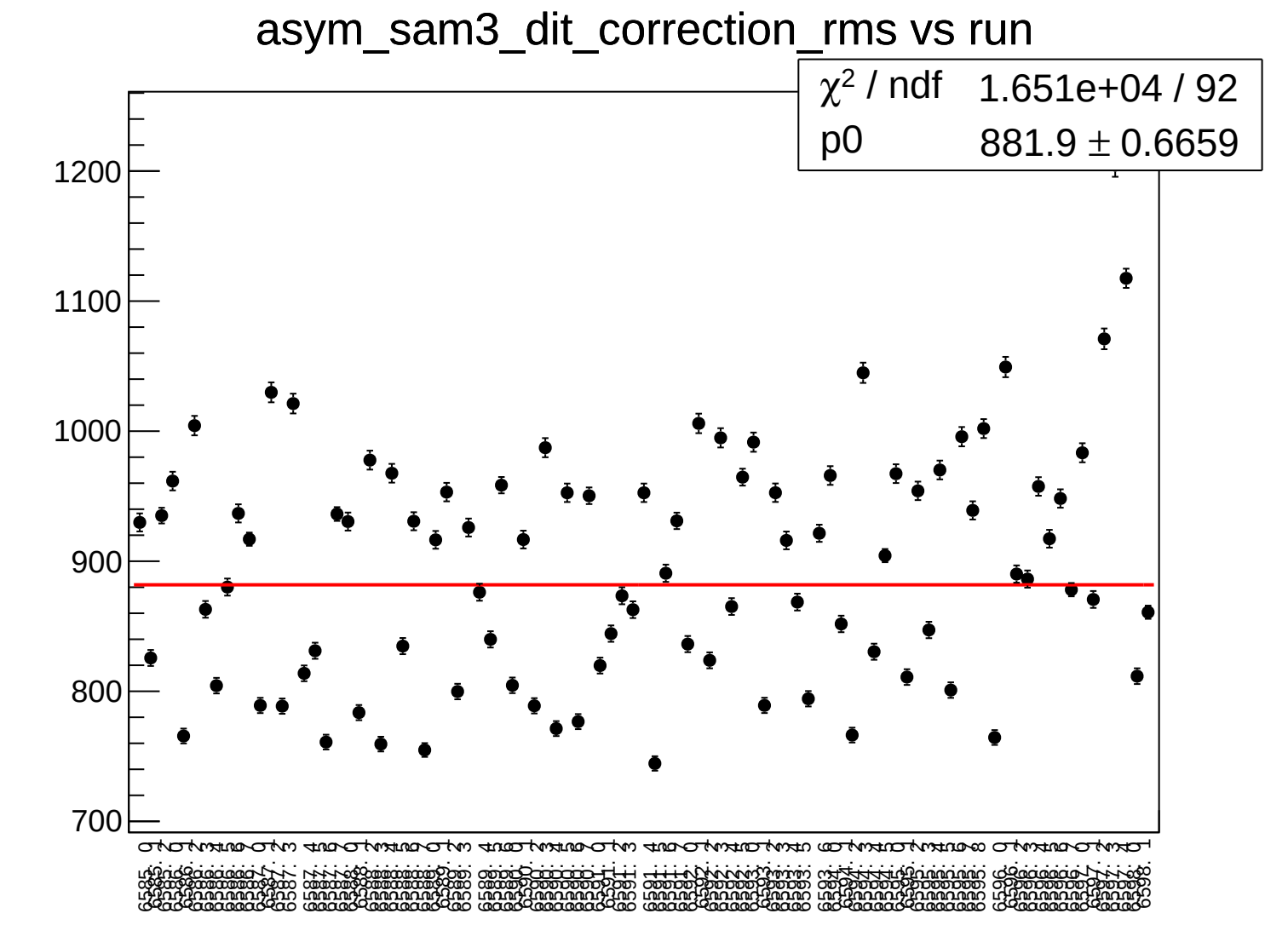

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 114.8 / 92
p0 −17.77 ± 983.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −731.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001436
Std Dev 1.111
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

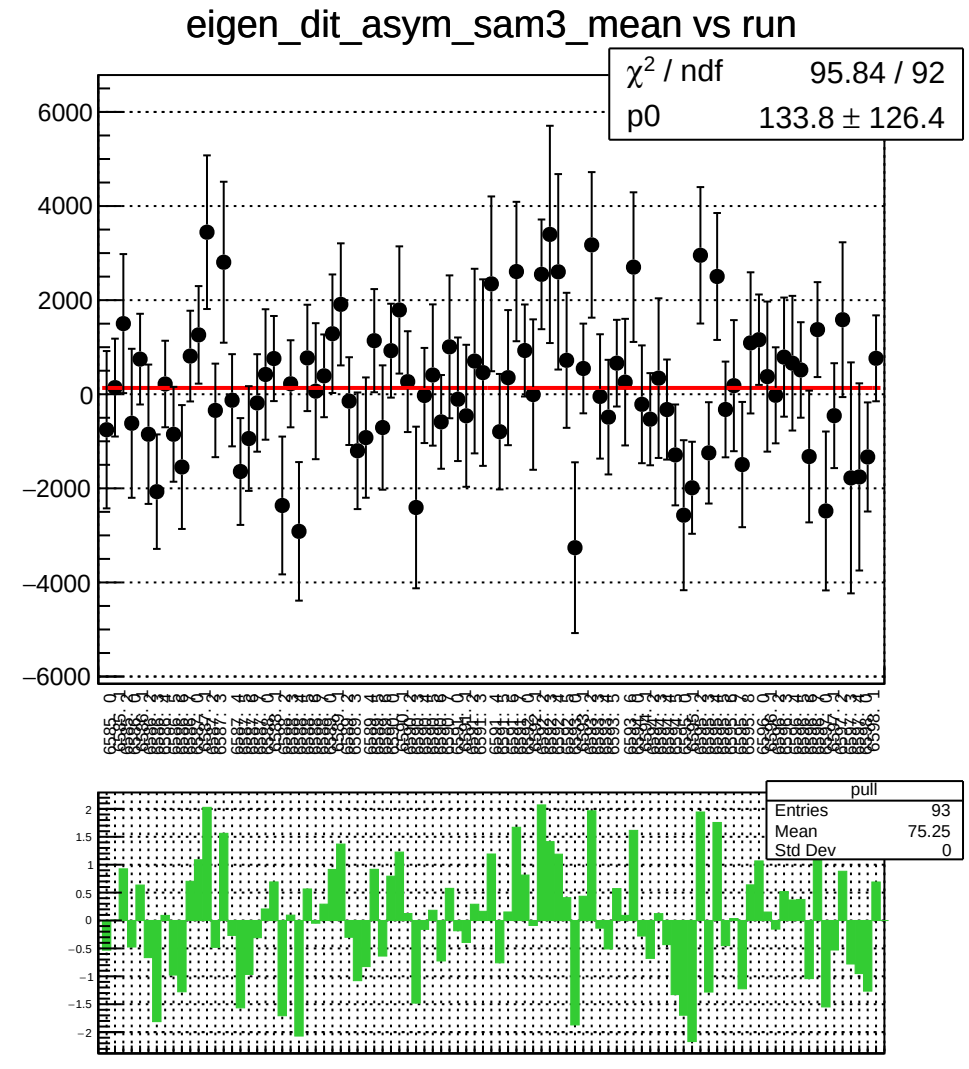

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 2.38e+04 / 92
p0 919.2 ± 0.6955
1400
1300
1200
1100
1000
900
800
700

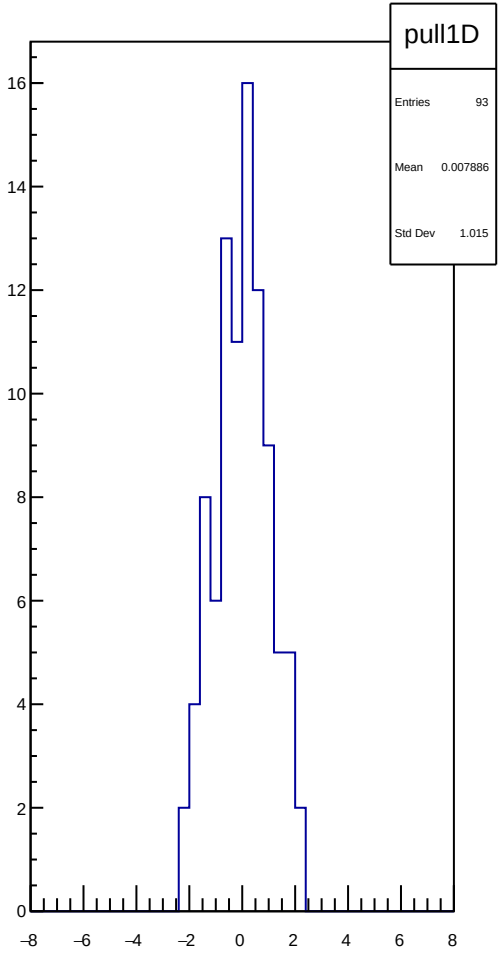

dit_asym_sam3_mean vs run
χ² / ndf 95.84 / 92
p0 133.8 ± 126.4
pull
Entries 93
Mean 75.25
Std Dev 0
pull1D
Entries 93
Mean 0.007886
Std Dev 1.015

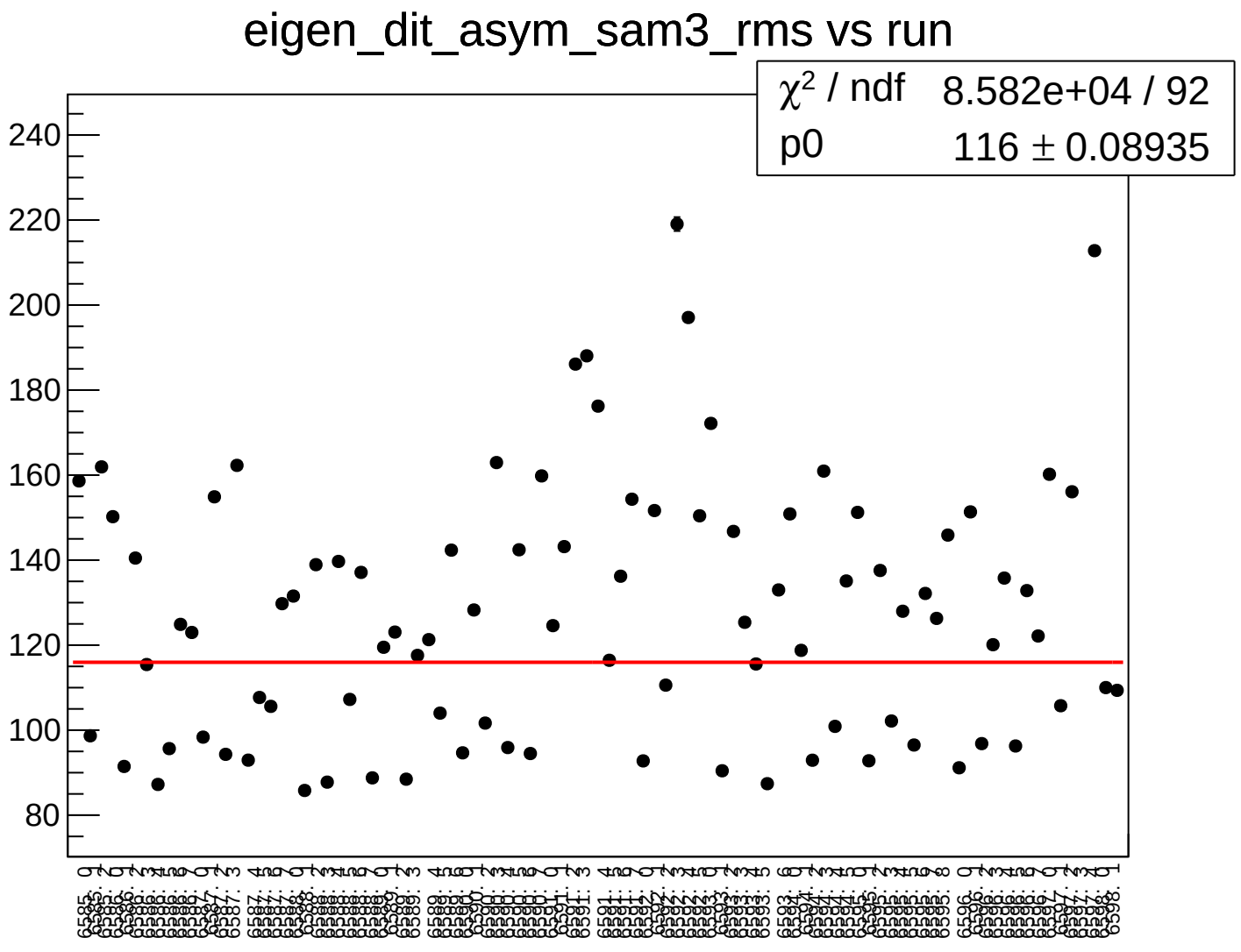

dit_asym_sam3_rms vs run
χ² / ndf 8.582e+04 / 92
p0 116 ± 0.08935
240
220
200
180
160
140
120
100
80

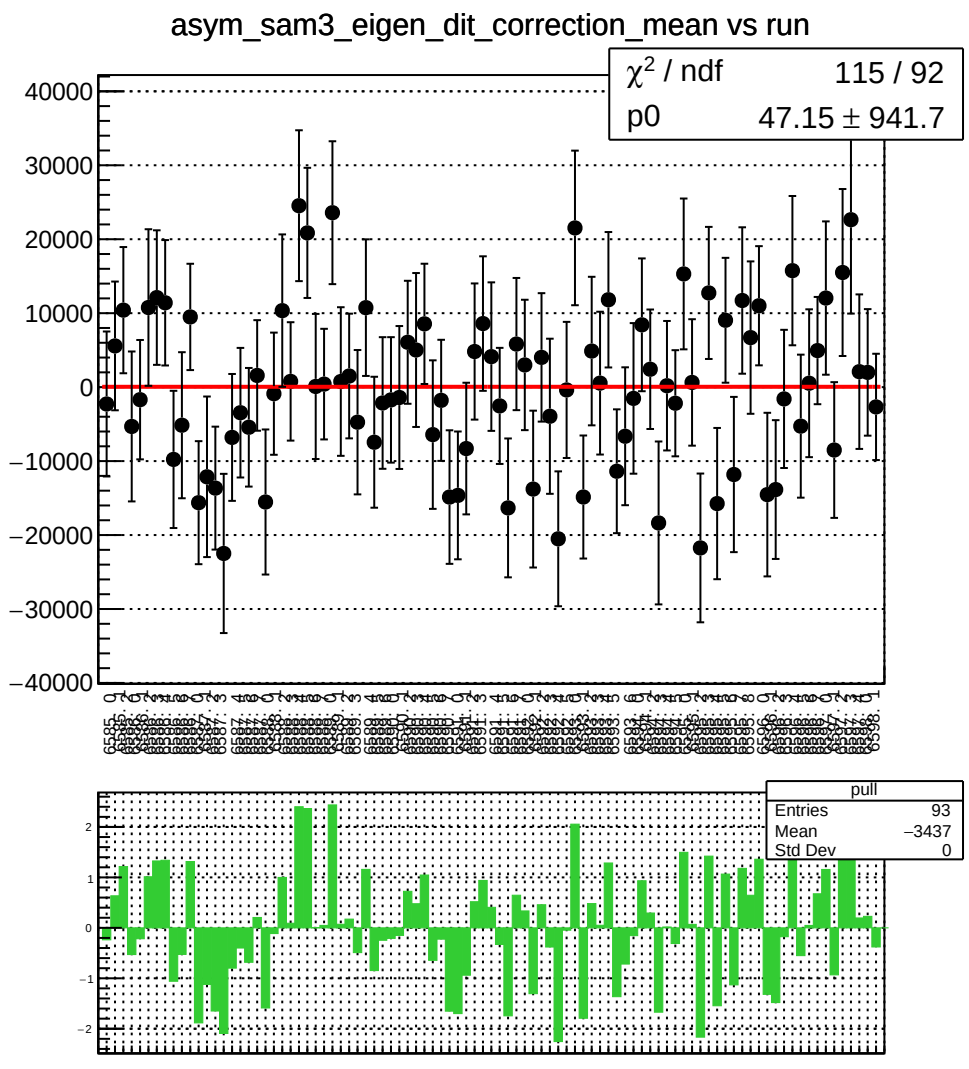

asym_sam3_dit_correction_mean vs run
χ² / ndf 115 / 92
p0 47.15 ± 941.7
pull
Entries 93
Mean −3437
Std Dev 0
pull1D
Entries 93
Mean −0.0003152
Std Dev 1.112

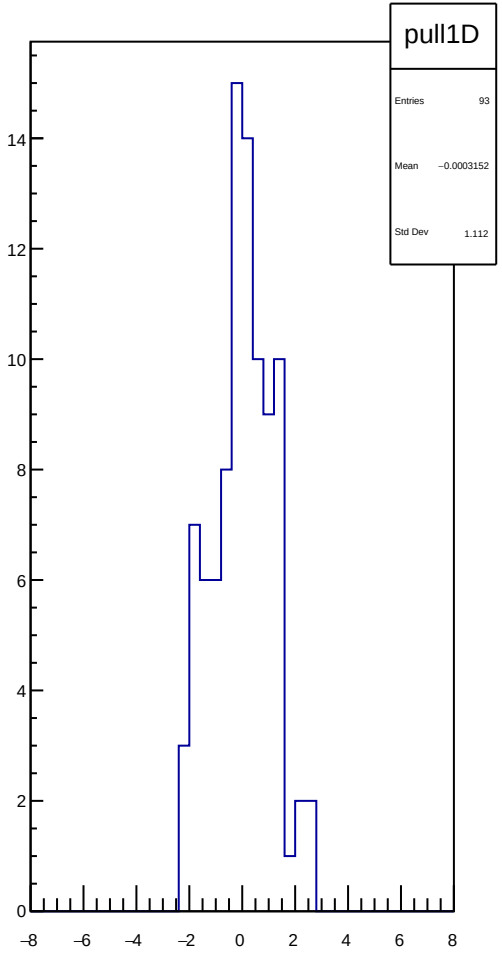

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.651e+04 / 92
p0 881.9 ± 0.6659
1200
1100
1000
900
800
700

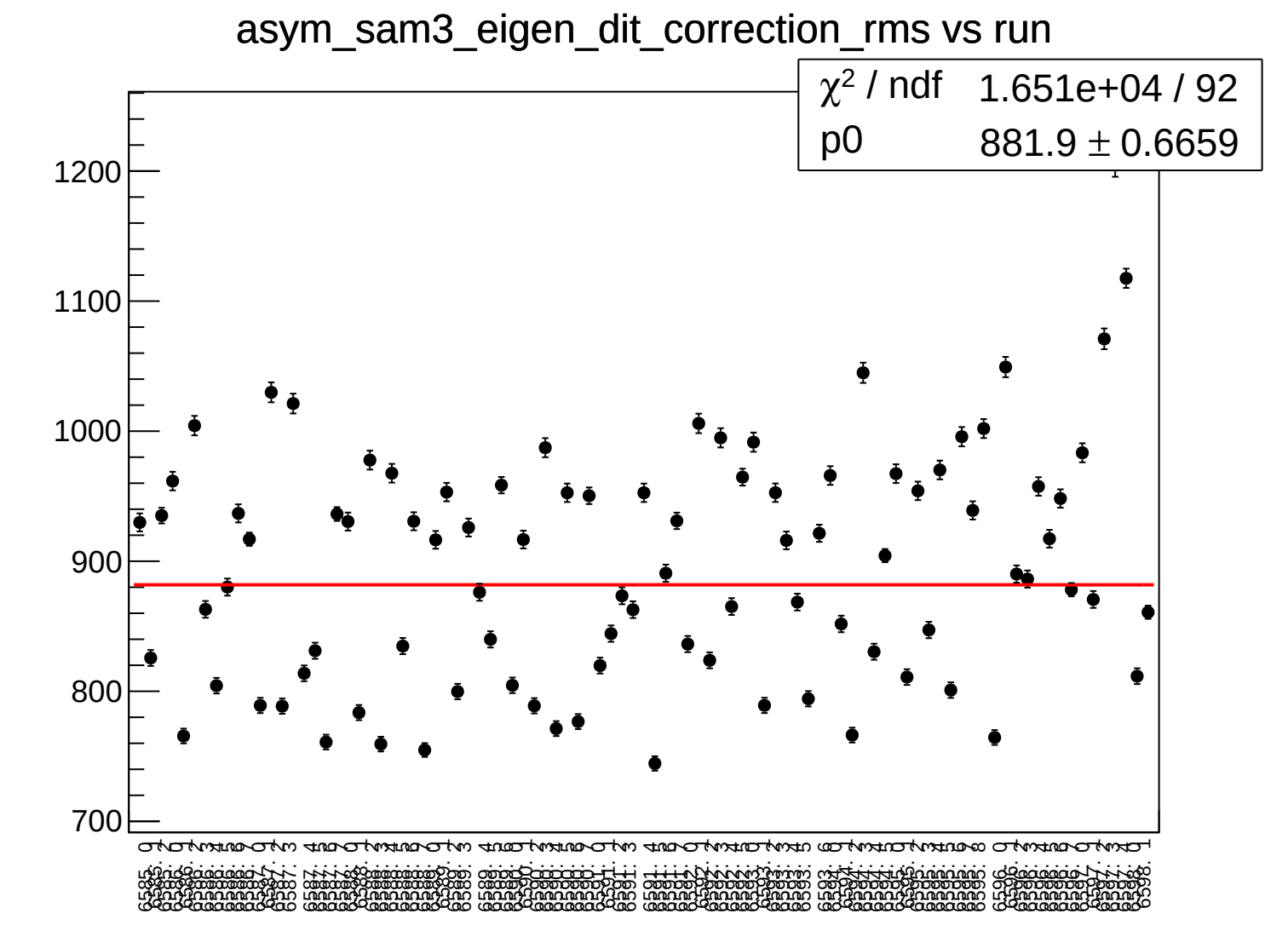

eigen_dit_asym_sam3_mean vs run
χ² / ndf 95.84 / 92
p0 133.8 ± 126.4
pull
Entries 93
Mean 75.25
Std Dev 0

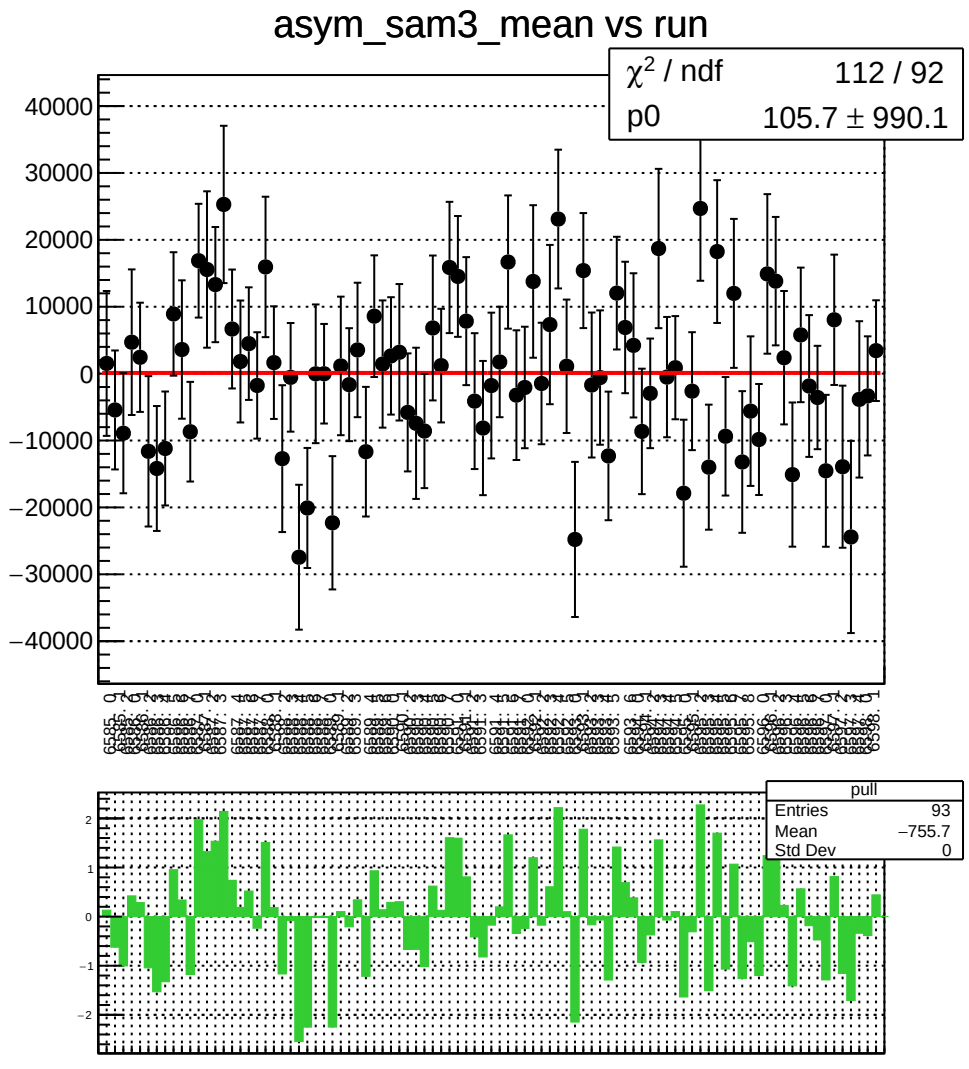

pull1D
Entries 93
Mean 0.007886
Std Dev 1.015

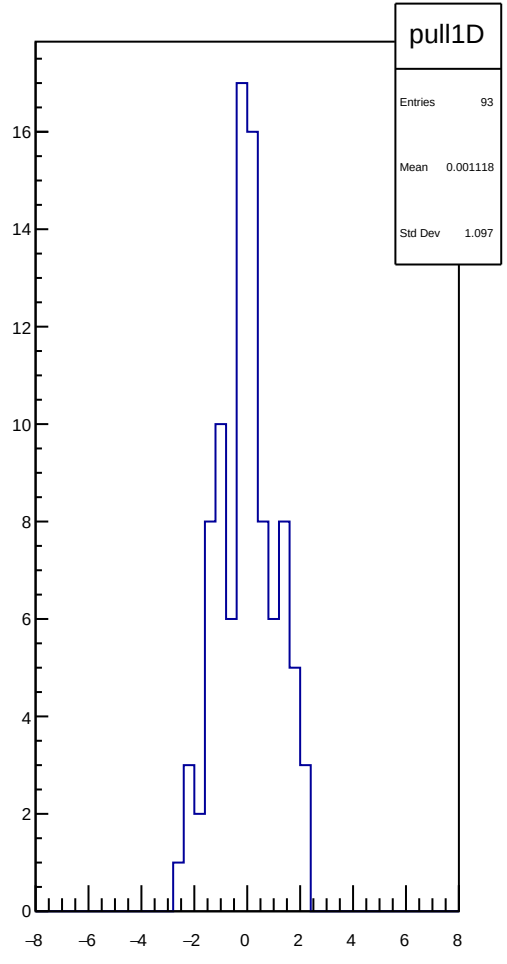

eigen_dit_asym_sam3_rms vs run
χ² / ndf 8.582e+04 / 92
p0 116 ± 0.08935
240
220
200
180
160
140
120
100
80

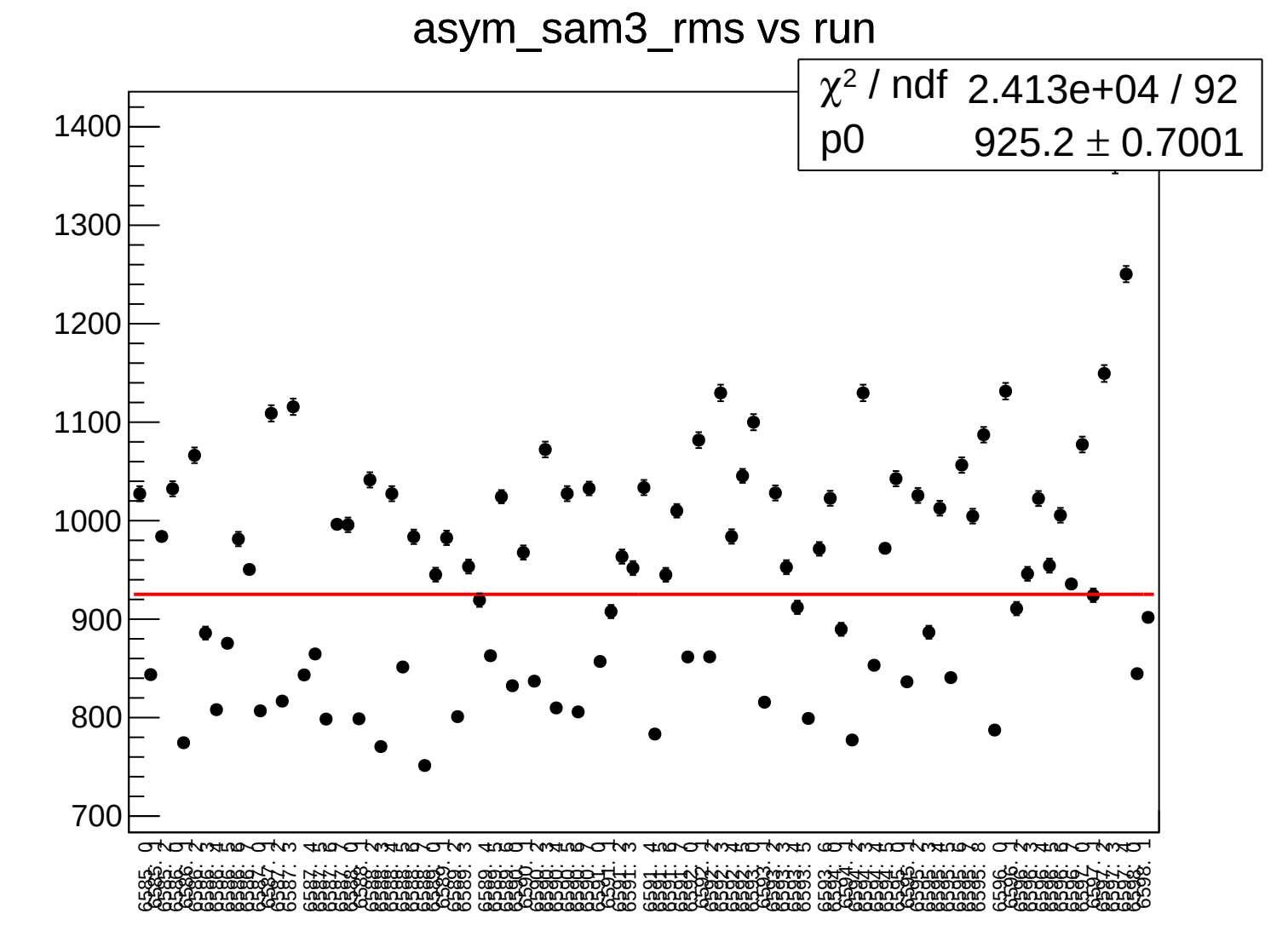

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 115 / 92
p0 47.15 ± 941.7
pull
Entries 93
Mean −3437
Std Dev 0

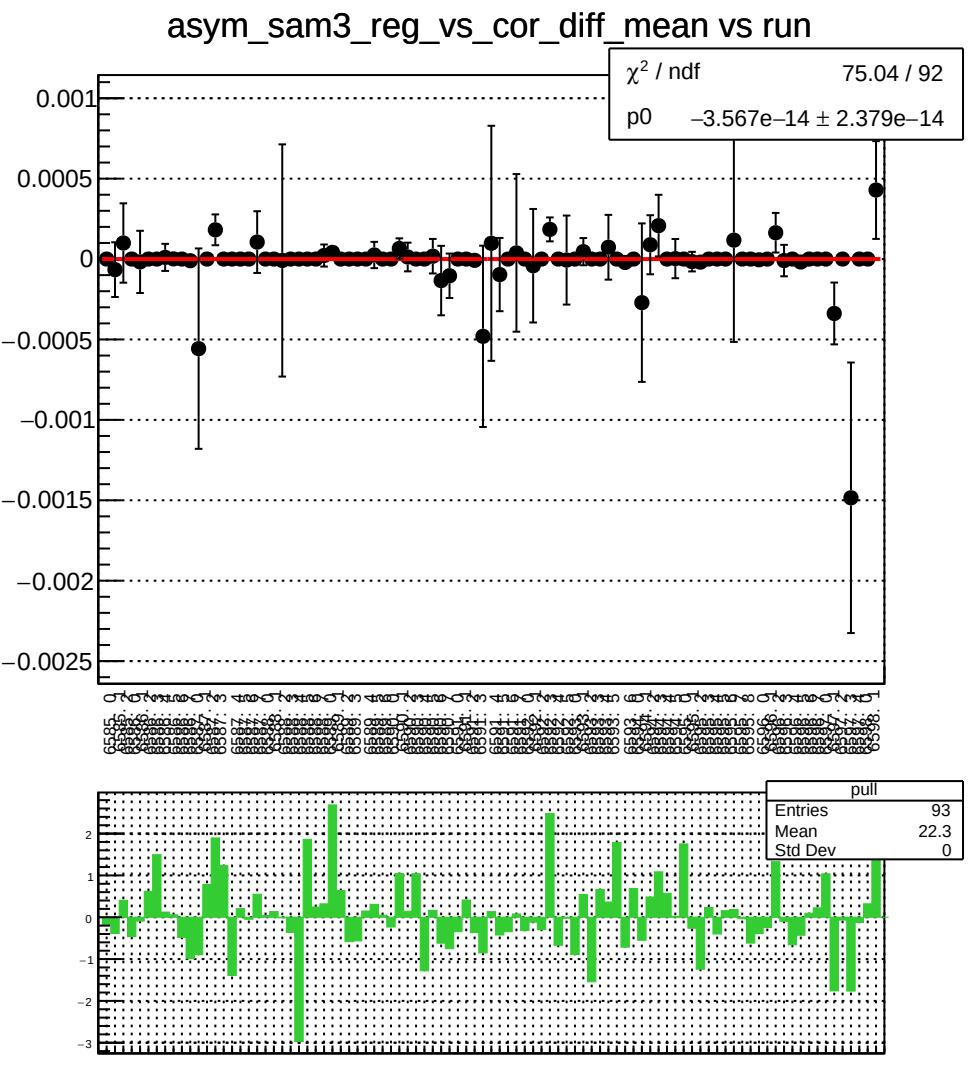

pull1D
Entries 93
Mean −0.0003152
Std Dev 1.112

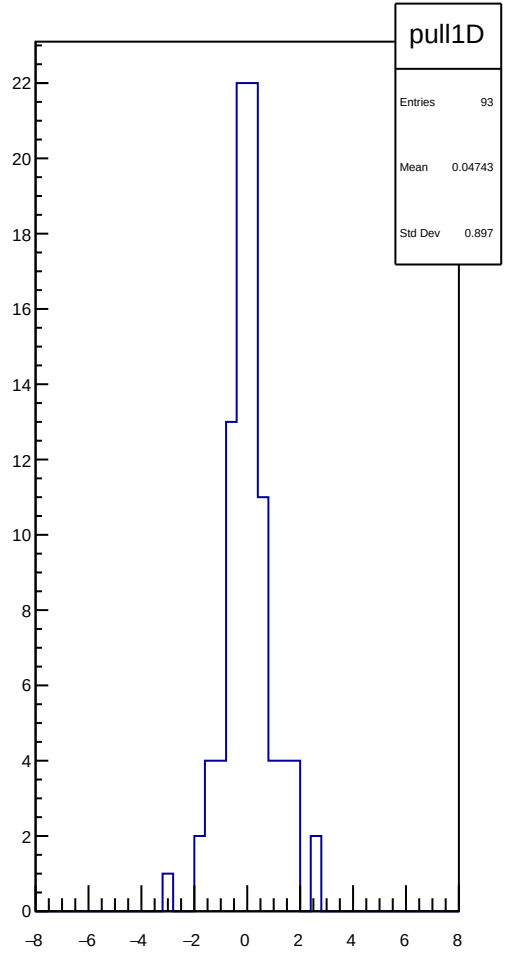

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.651e+04 / 92
p0 881.9 ± 0.6659
1200
1100
1000
900
800
700

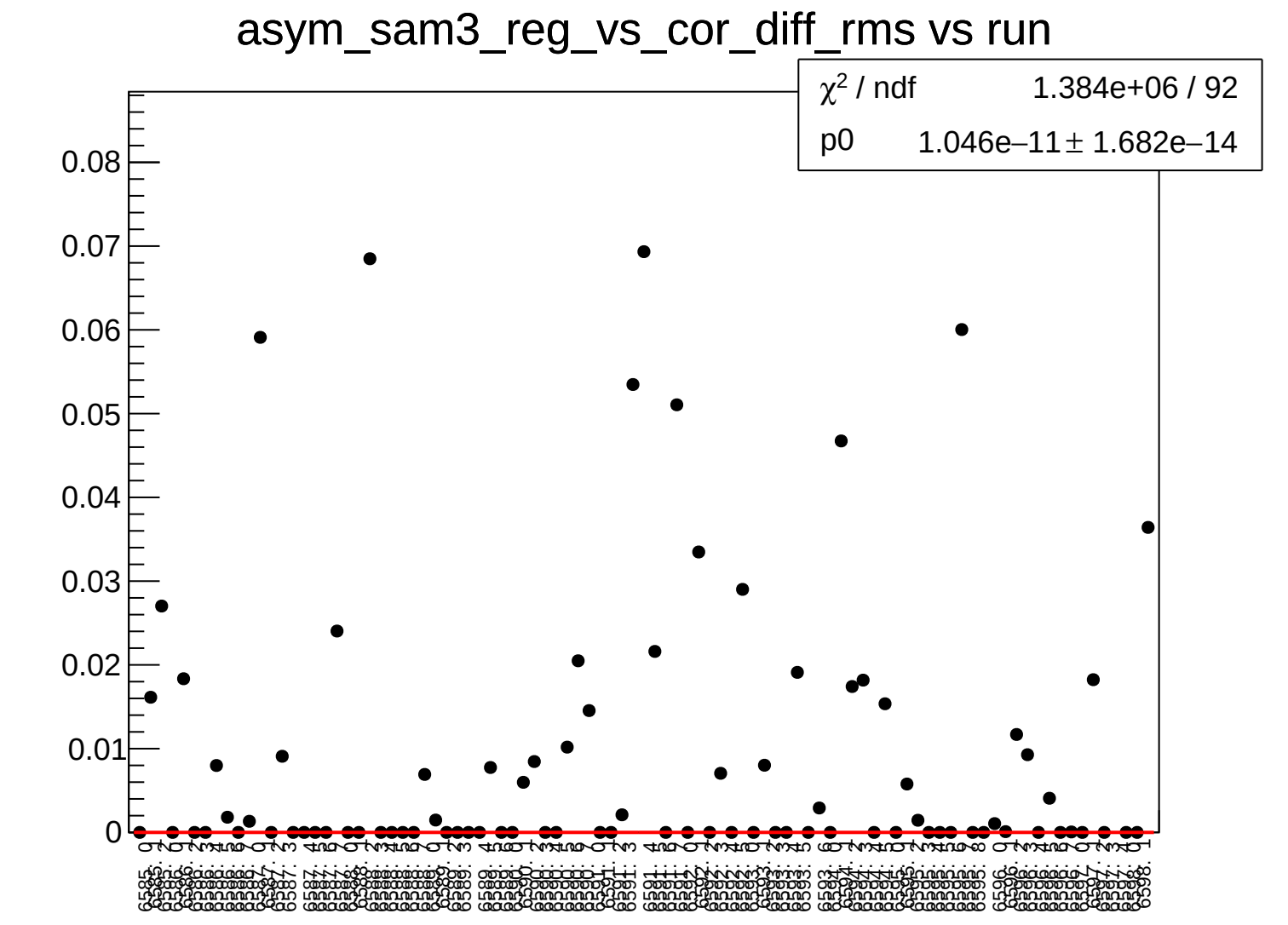

asym_sam3_mean vs run
χ² / ndf 112 / 92
p0 105.7 ± 990.1
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −755.7
Std Dev 0
2
1
0
−1
−2

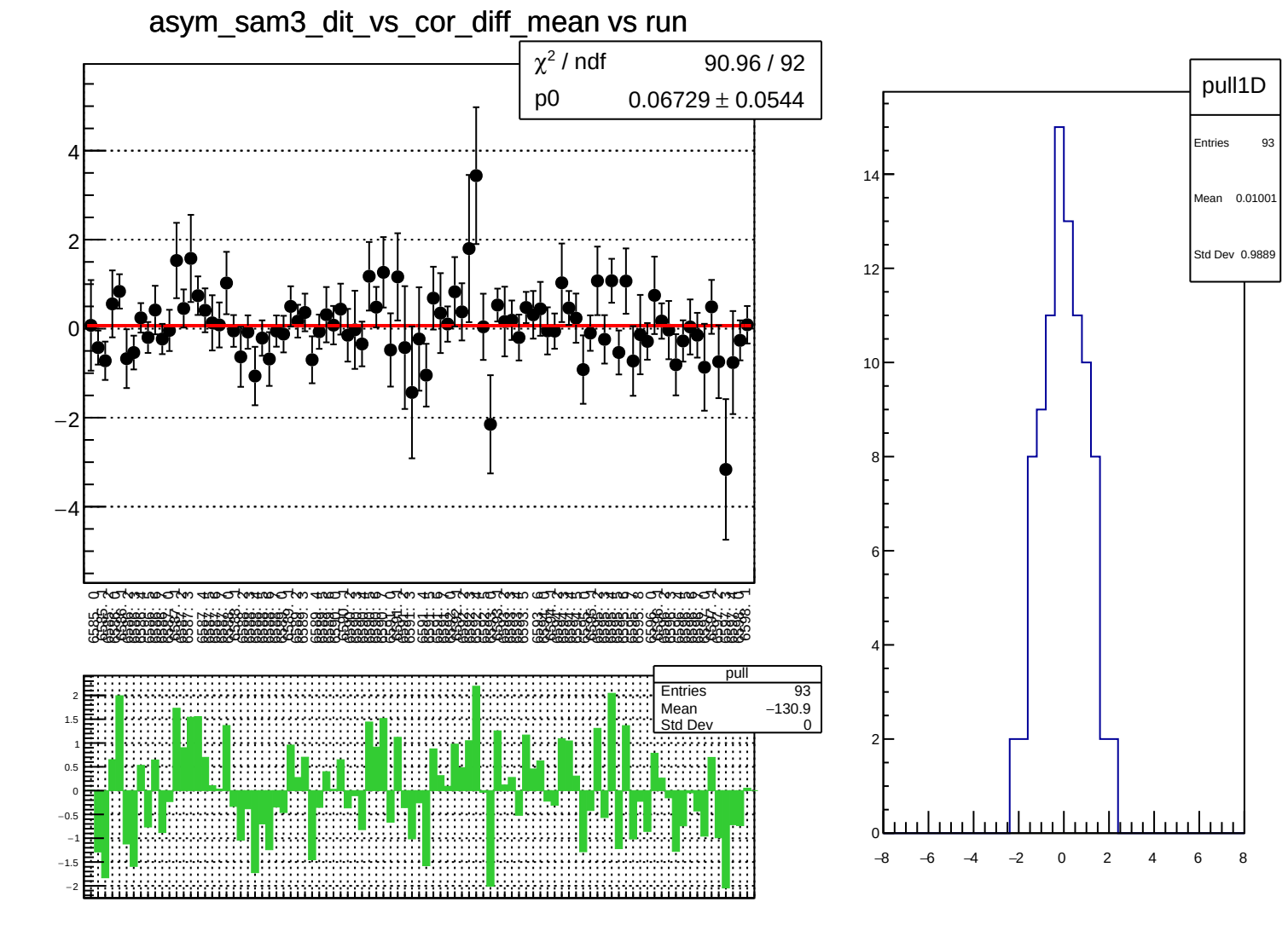

pull1D
Entries 93
Mean 0.001118
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

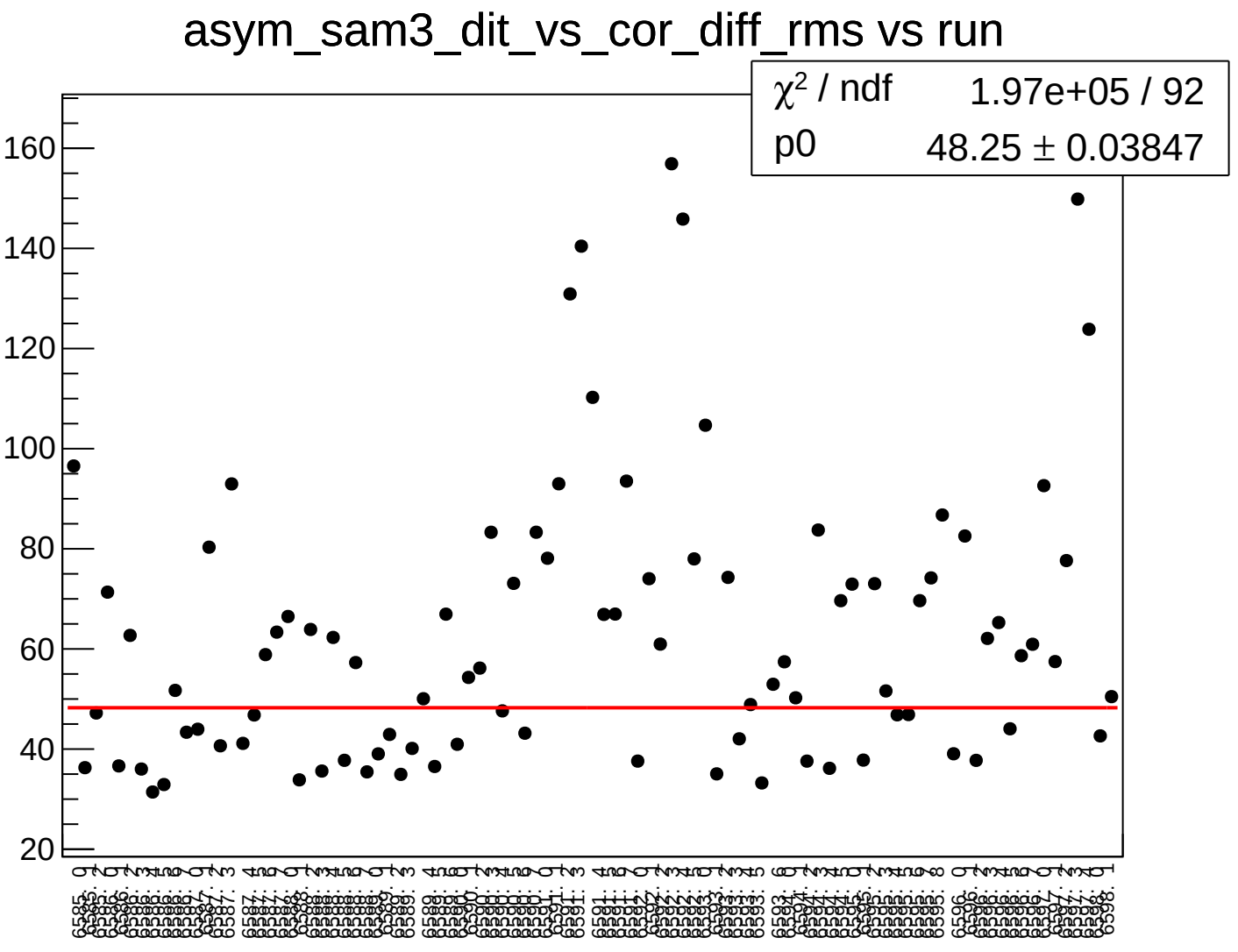

asym_sam3_rms vs run
χ² / ndf 2.413e+04 / 92
p0 925.2 ± 0.7001
1400
1300
1200
1100
1000
900
800
700

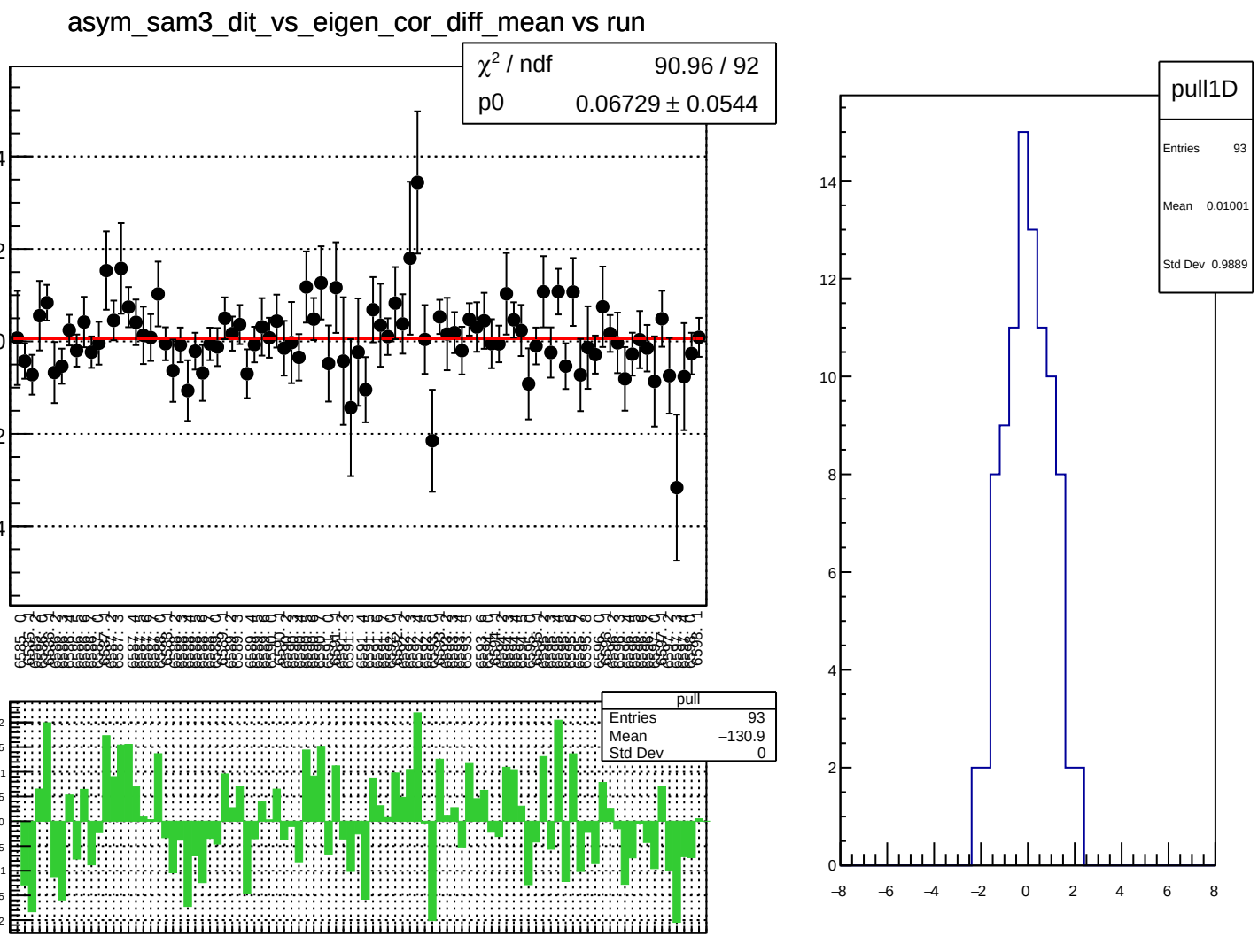

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 75.04 / 92
p0 −3.567e−14 ± 2.379e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 93
Mean 22.3
Std Dev 0
2
1
0
−1
−2
−3

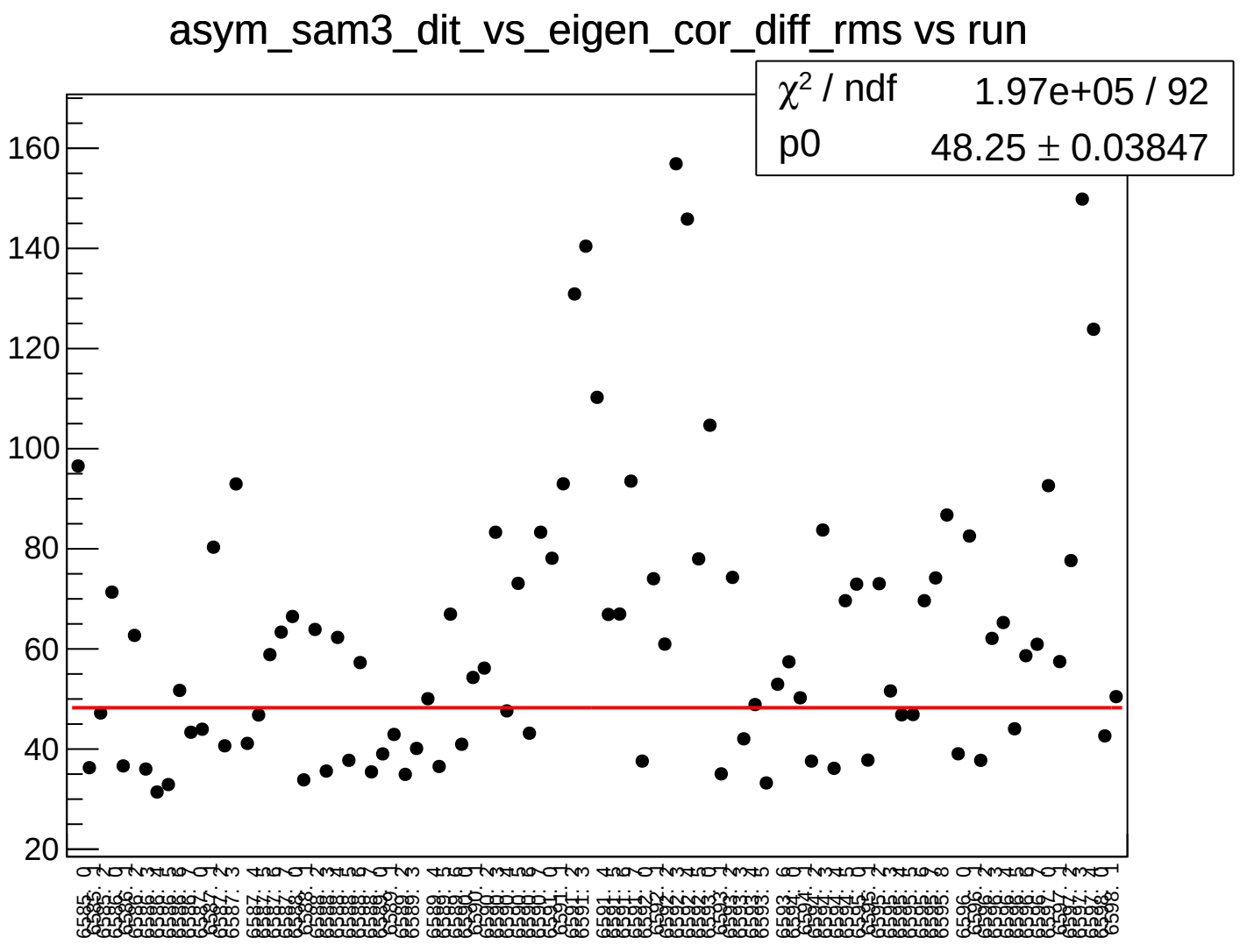

pull1D
Entries 93
Mean 0.04743
Std Dev 0.897
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

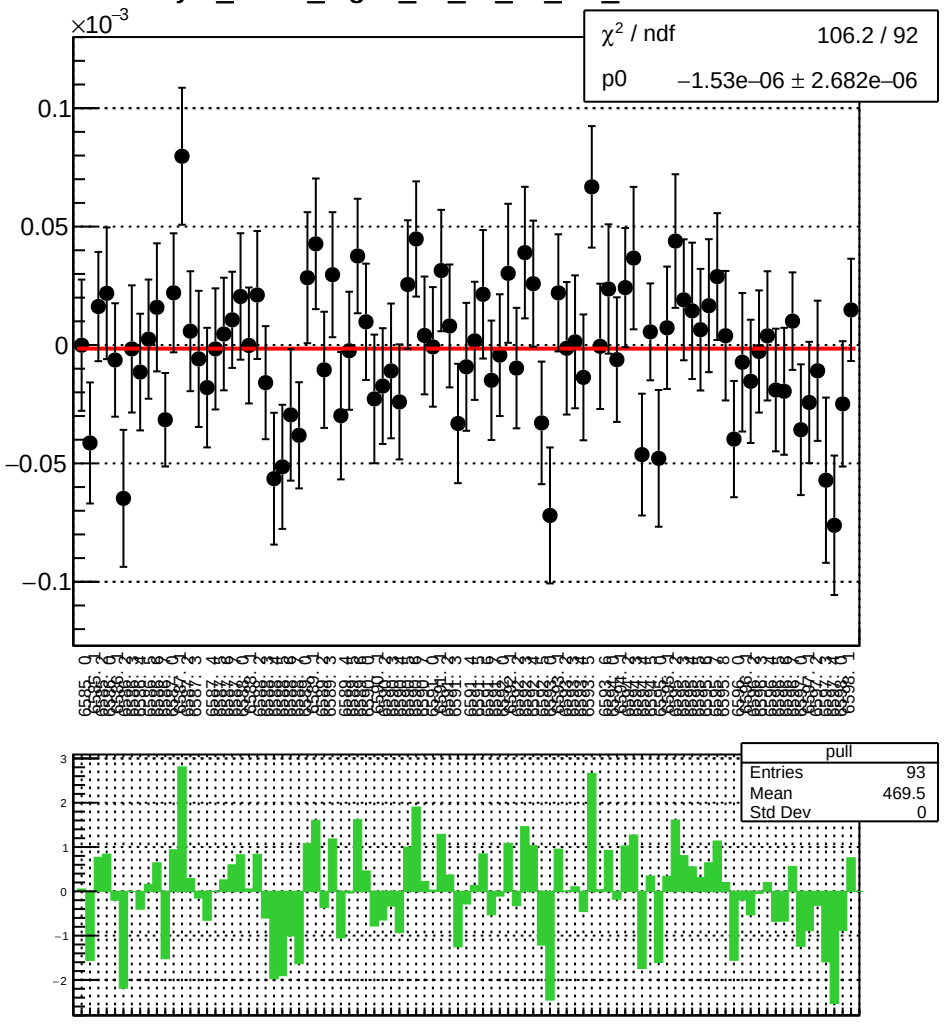

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.384e+06 / 92
p0 1.046e−11 ± 1.682e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

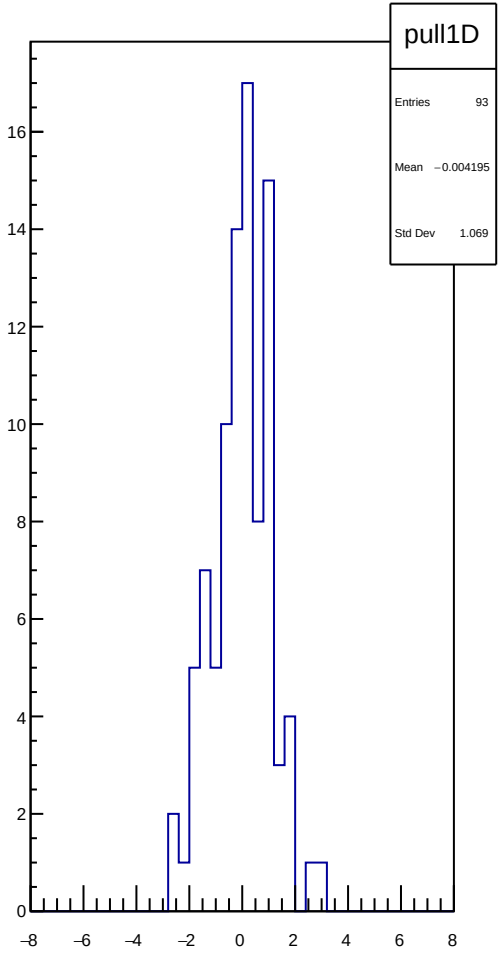

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 90.96 / 92
p0 0.06729 ± 0.0544
pull
Entries 93
Mean −130.9
Std Dev 0
pull1D
Entries 93
Mean 0.01001
Std Dev 0.9889

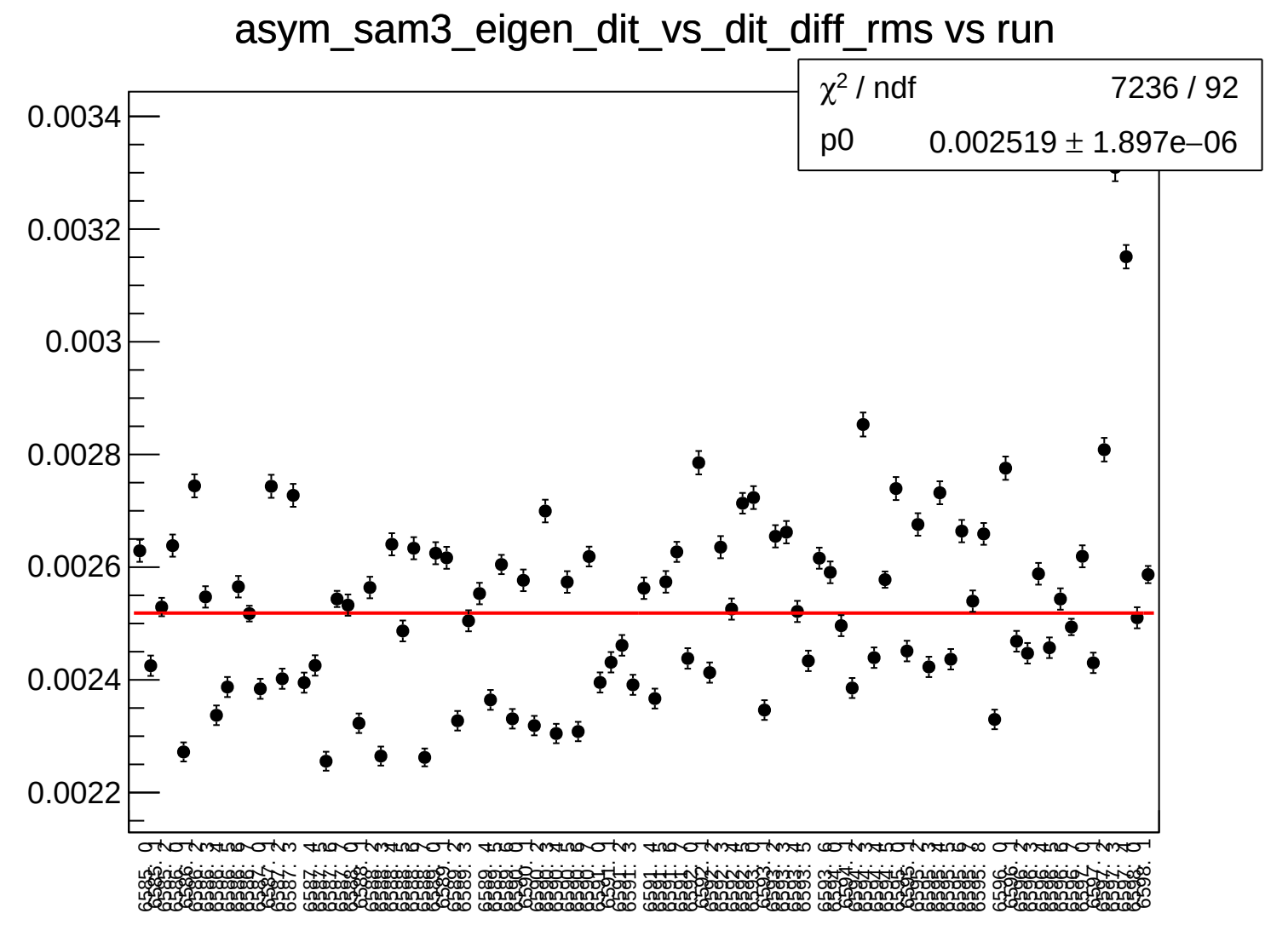

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.97e+05 / 92
p0 48.25 ± 0.03847
160
140
120
100
80
60
40
20

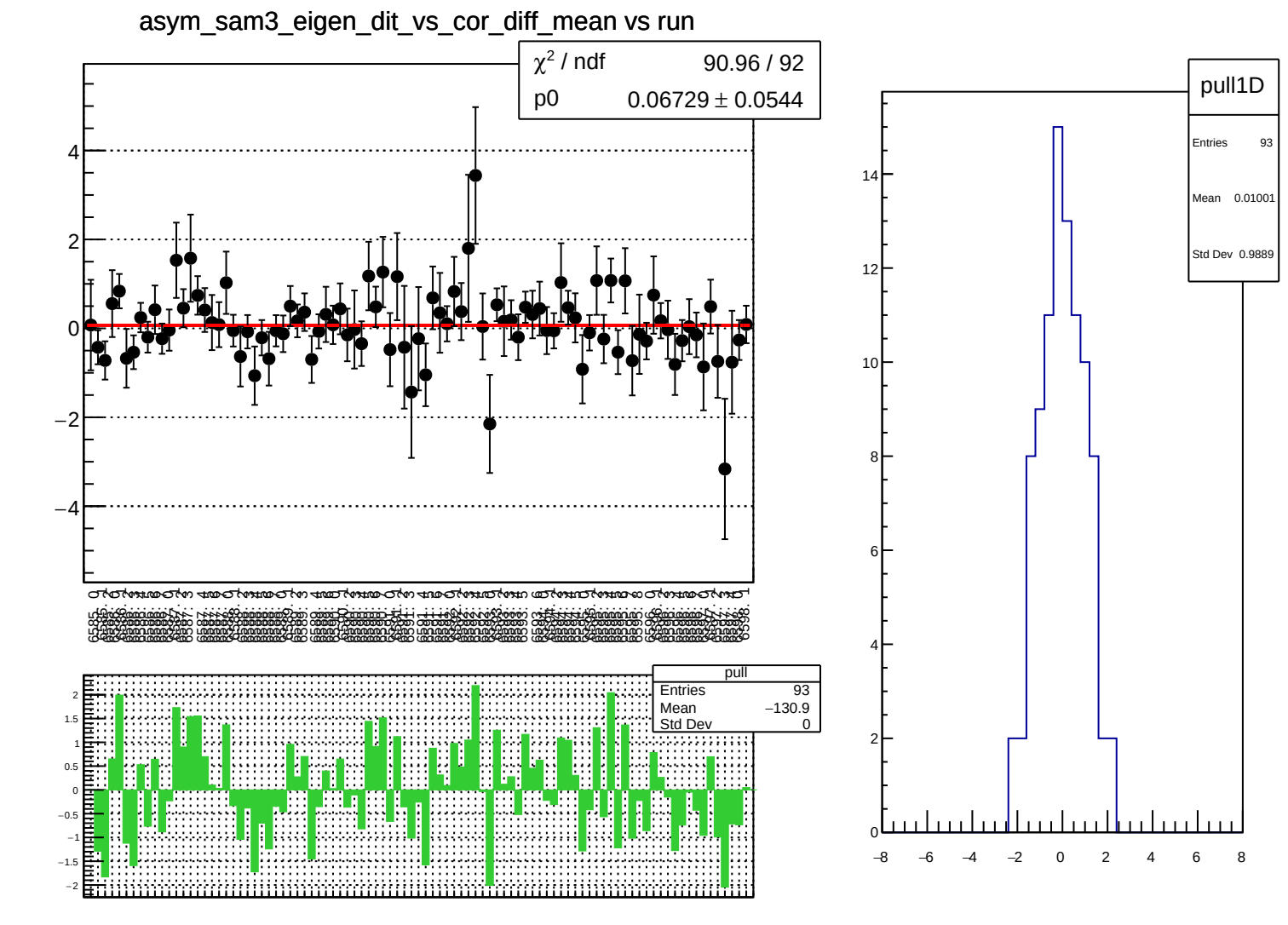

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.96 / 92
p0 0.06729 ± 0.0544
pull
Entries 93
Mean −130.9
Std Dev 0
pull1D
Entries 93
Mean 0.01001
Std Dev 0.9889

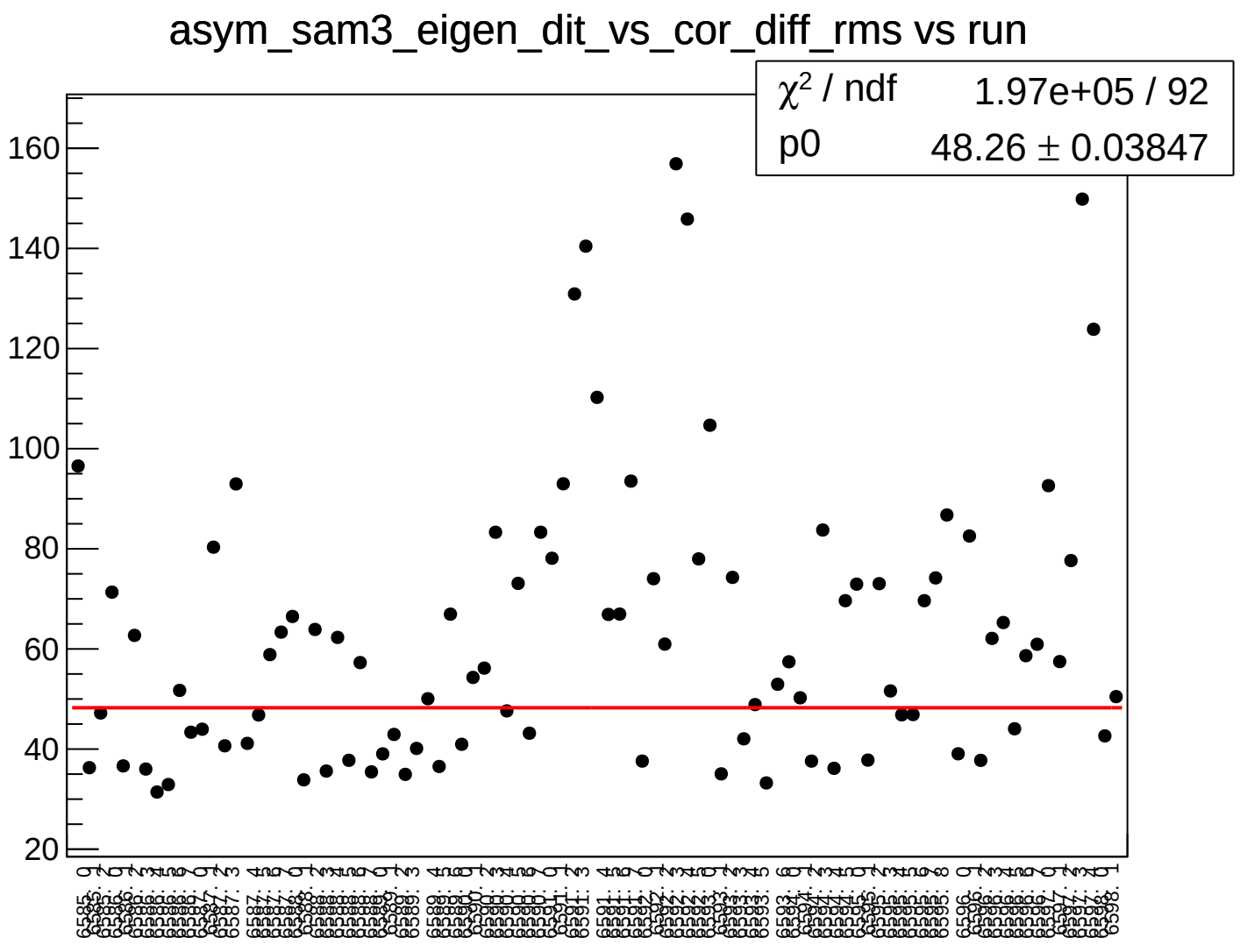

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.97e+05 / 92
p0 48.25 ± 0.03847
160
140
120
100
80
60
40
20

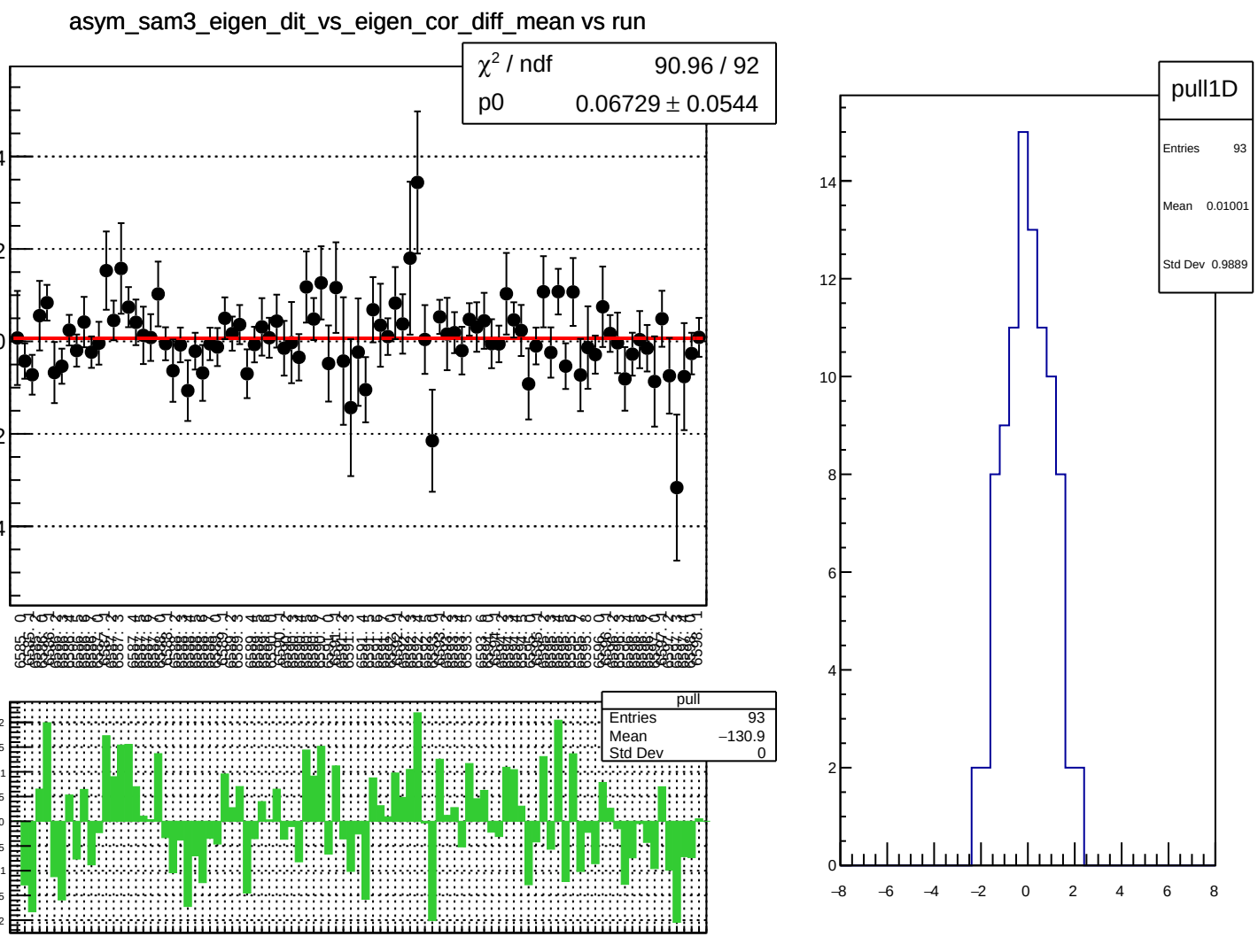

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.2 / 92
p0 −1.53e−06 ± 2.682e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 469.5
Std Dev 0
3
2
1
0
−1
−2

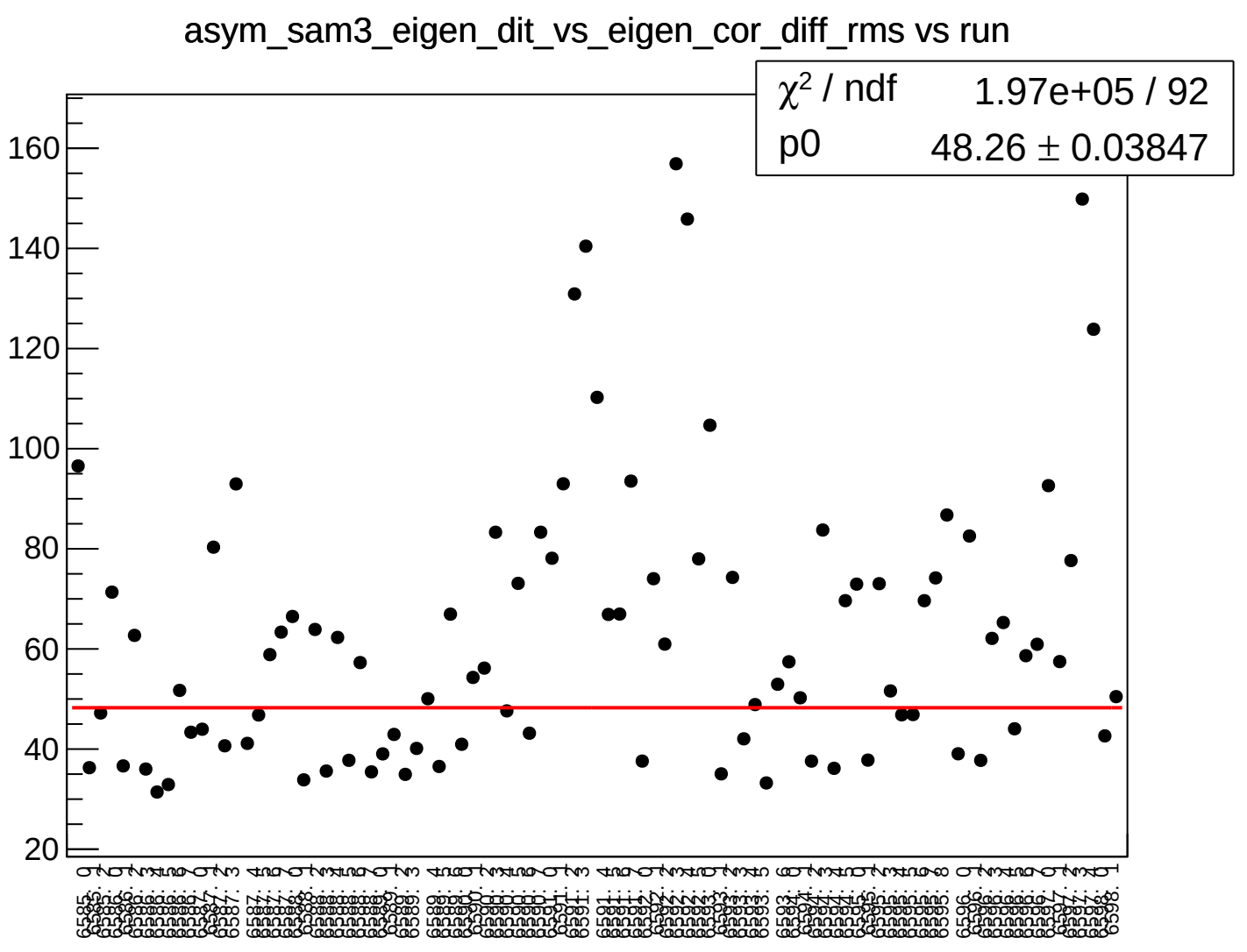

pull1D
Entries 93
Mean −0.004195
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

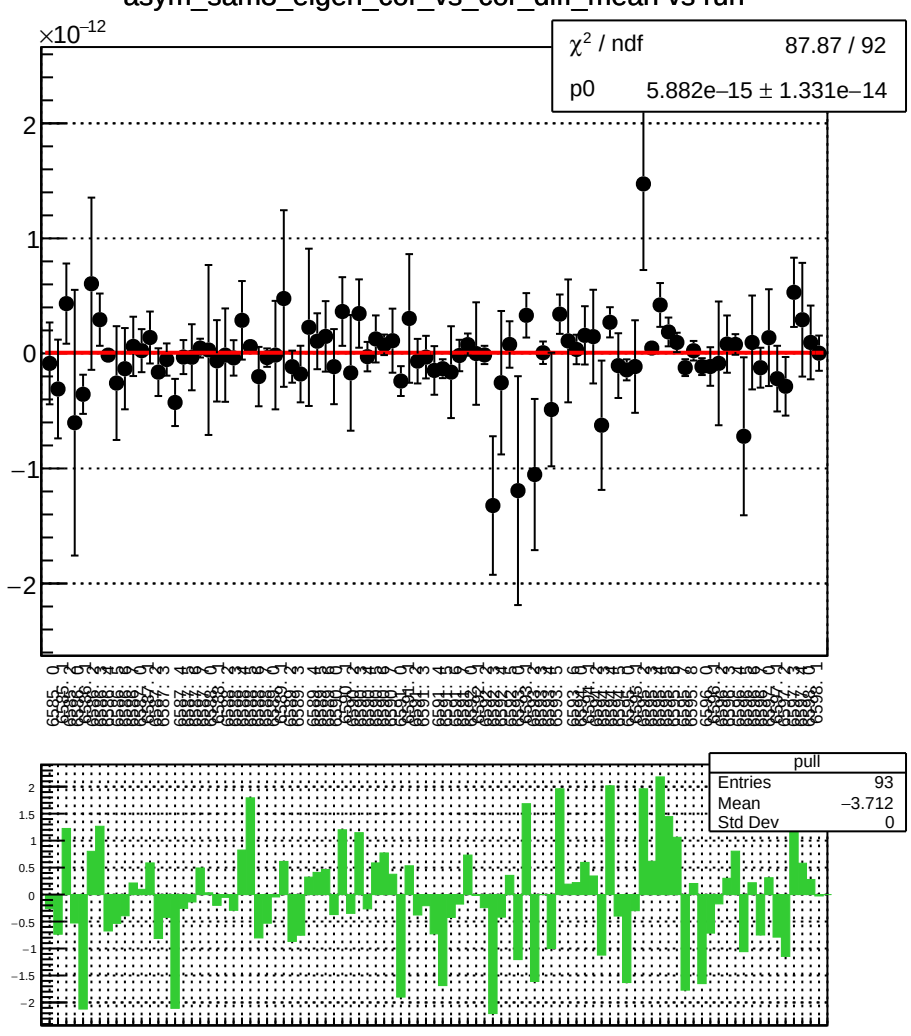

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7236 / 92
p0 0.002519 ± 1.897e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

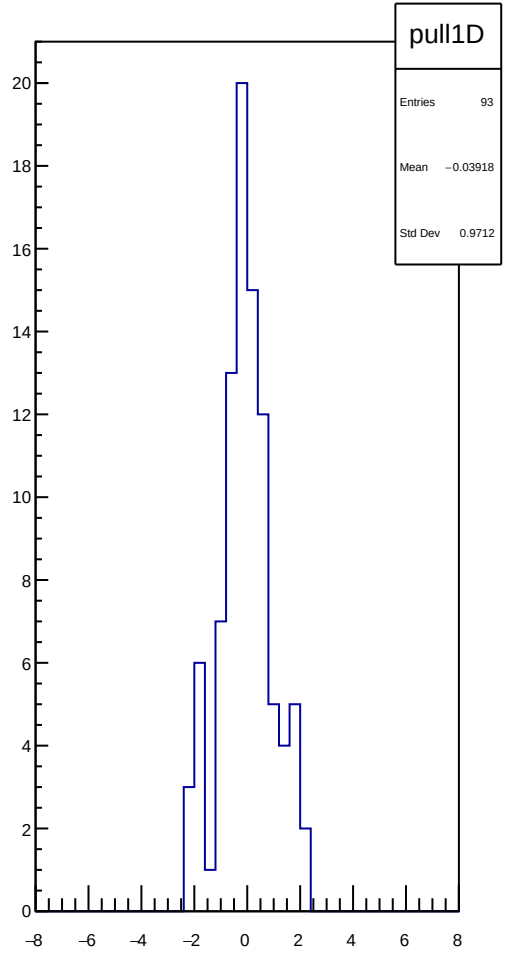

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.96 / 92
p0 0.06729 ± 0.0544
pull
Entries 93
Mean −130.9
Std Dev 0
pull1D
Entries 93
Mean 0.01001
Std Dev 0.9889

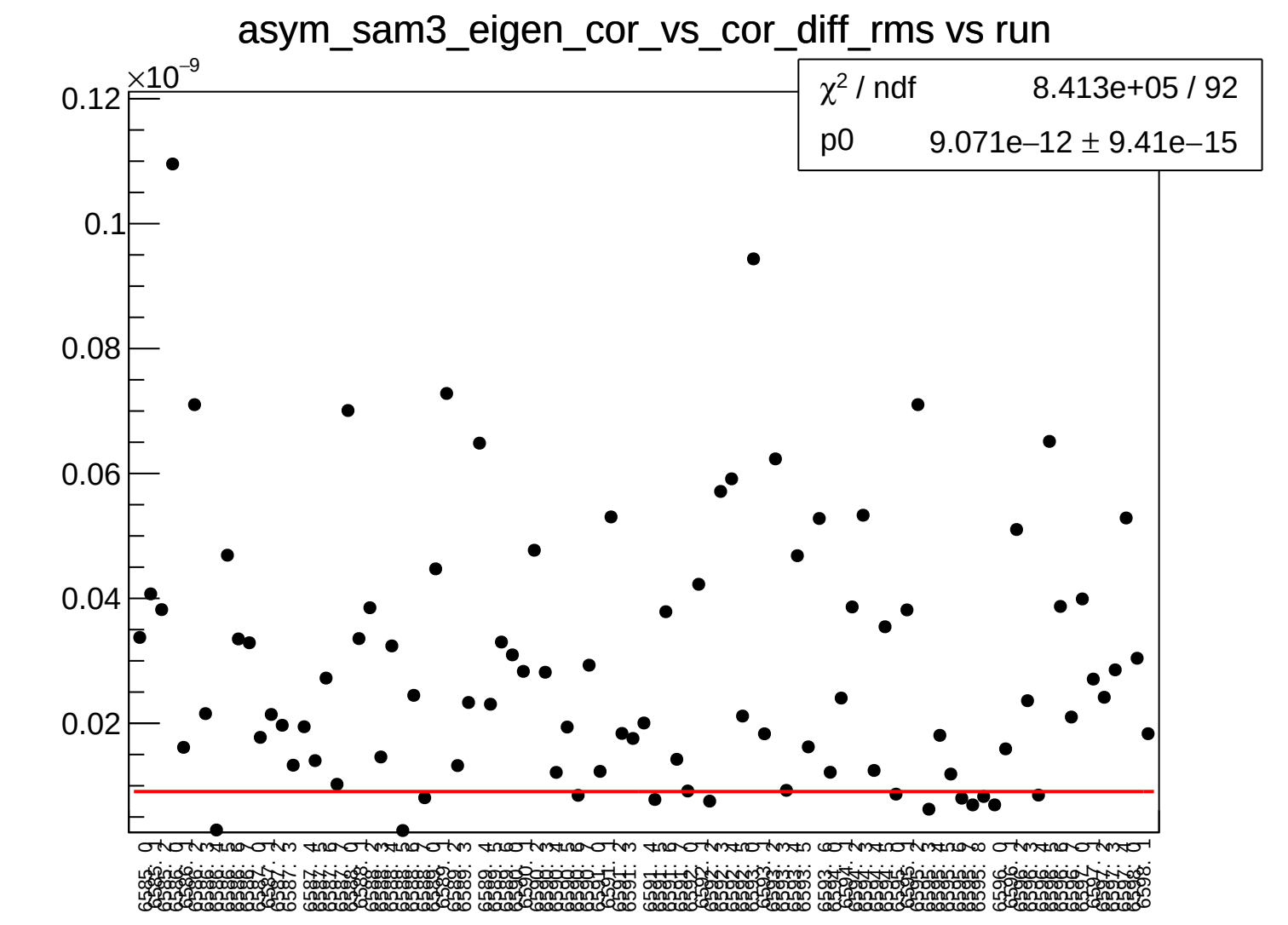

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.97e+05 / 92
p0 48.26 ± 0.03847
160
140
120
100
80
60
40
20

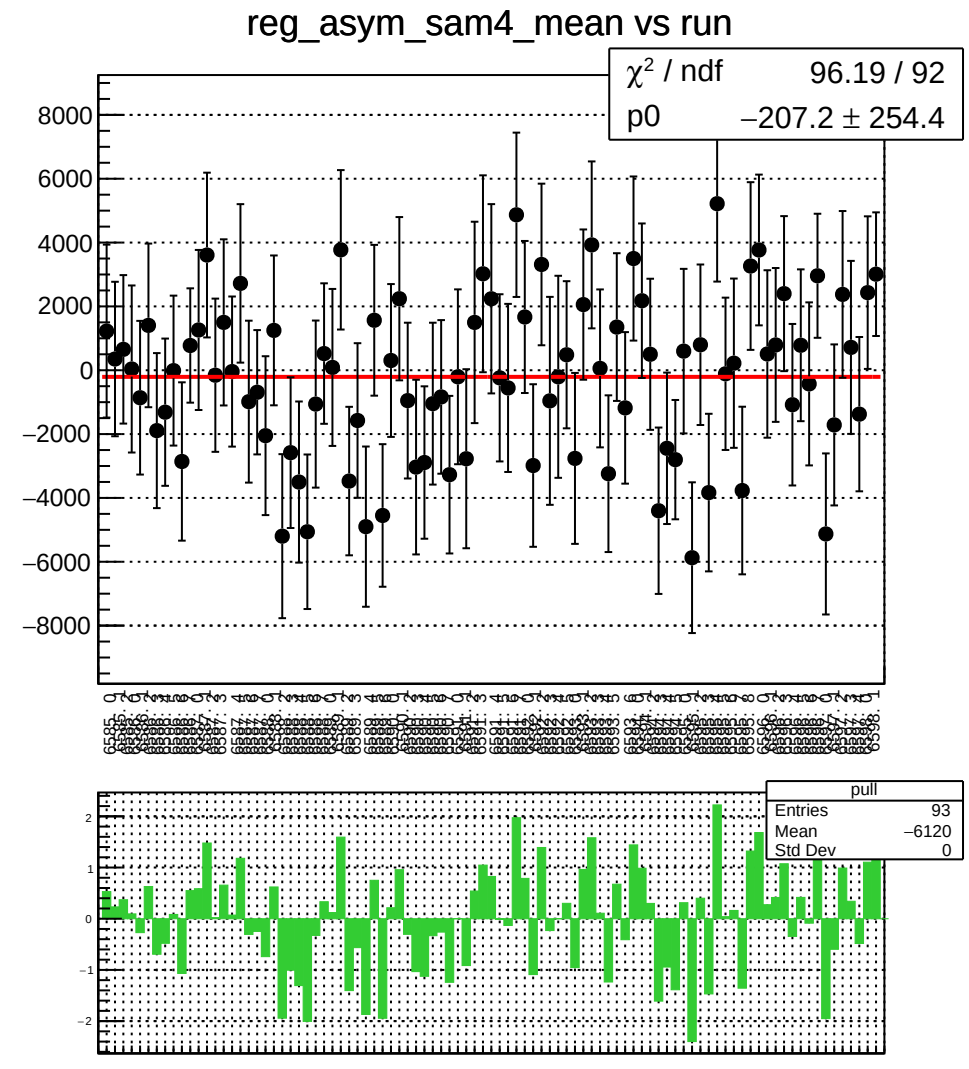

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.96 / 92
p0 0.06729 ± 0.0544
pull
Entries 93
Mean −130.9
Std Dev 0
pull1D
Entries 93
Mean 0.01001
Std Dev 0.9889

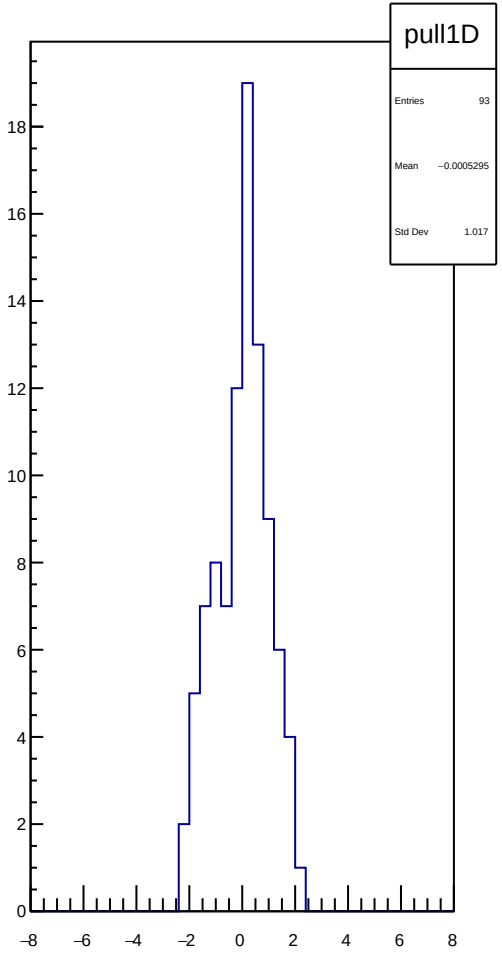

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.97e+05 / 92
p0 48.26 ± 0.03847
160
140
120
100
80
60
40
20

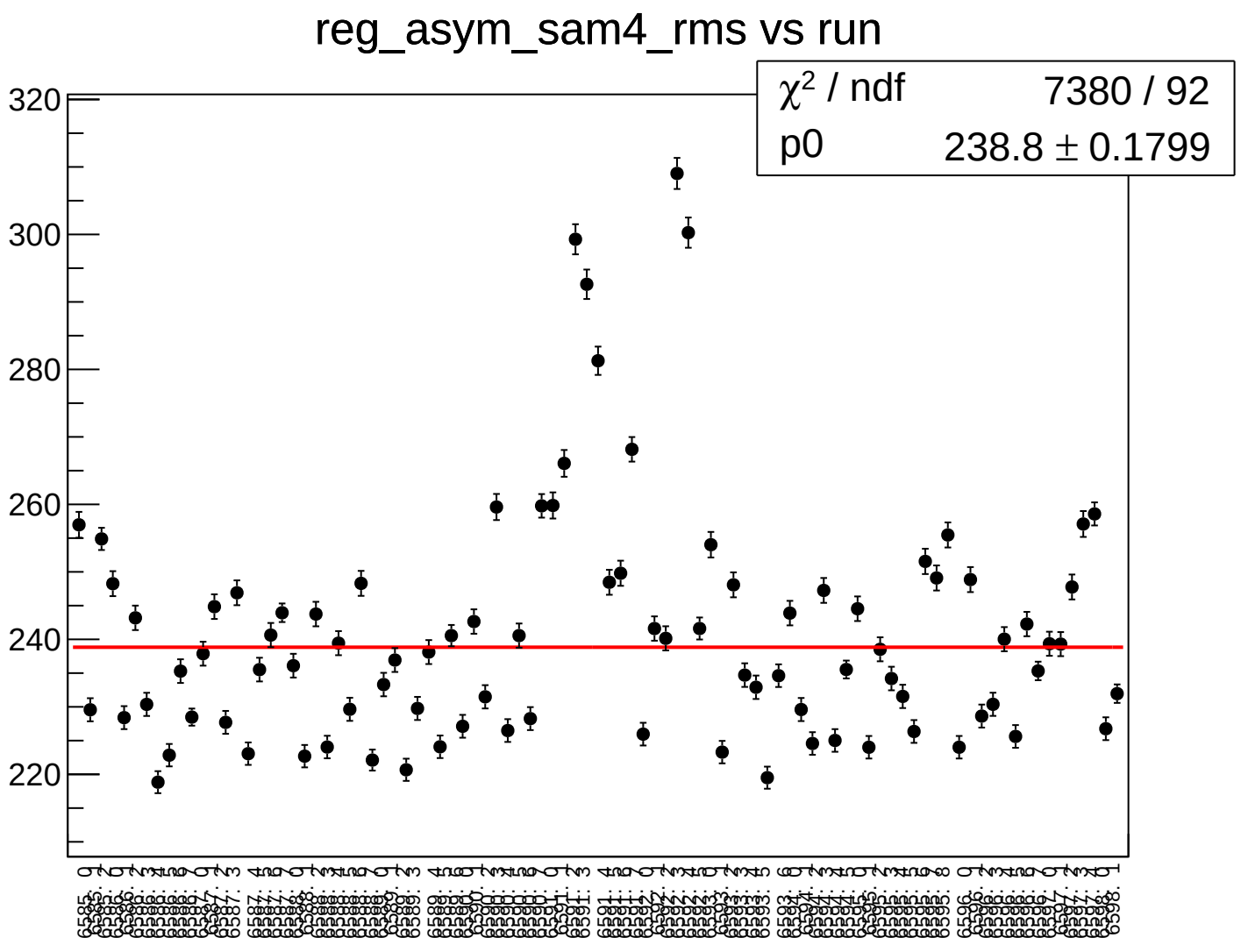

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.87 / 92
p0 5.882e−15 ± 1.331e−14
pull
Entries 93
Mean −3.712
Std Dev 0

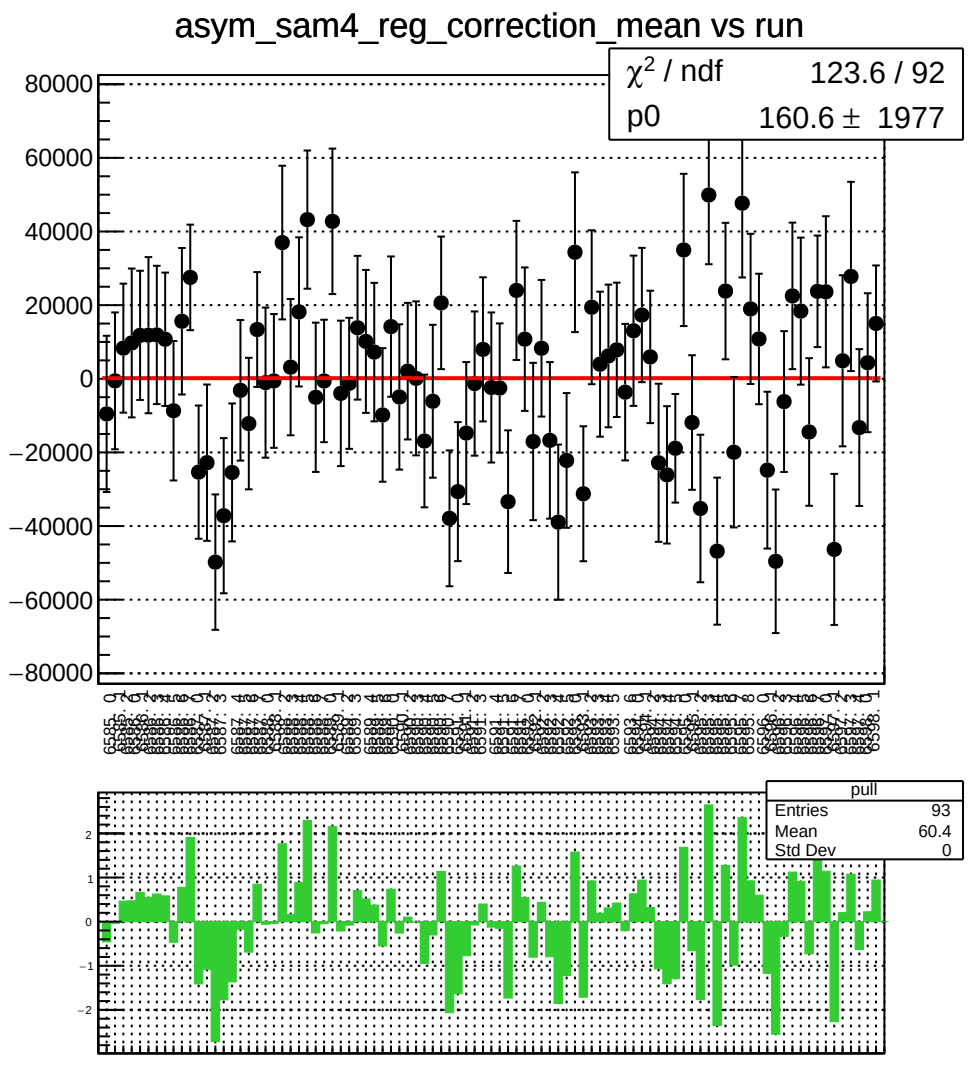

pull1D
Entries 93
Mean −0.03918
Std Dev 0.9712

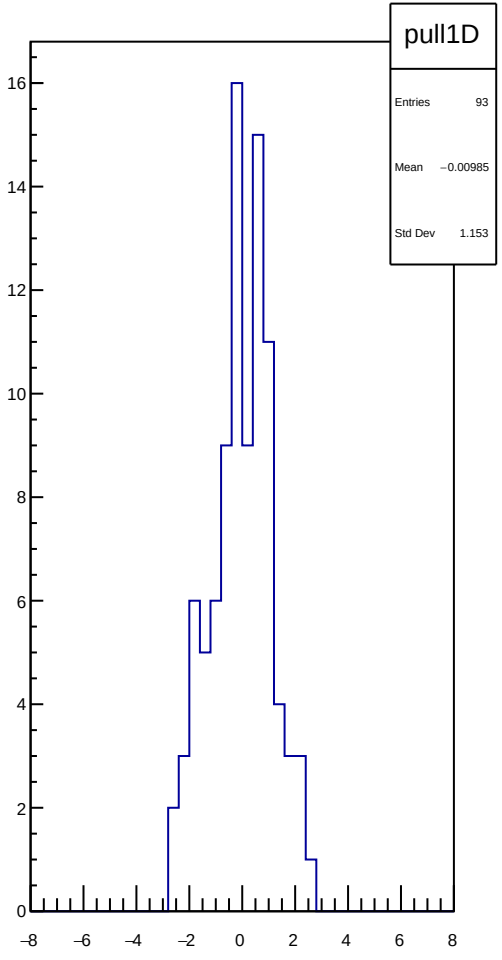

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 8.413e+05 / 92
p0 9.071e−12 ± 9.41e−15

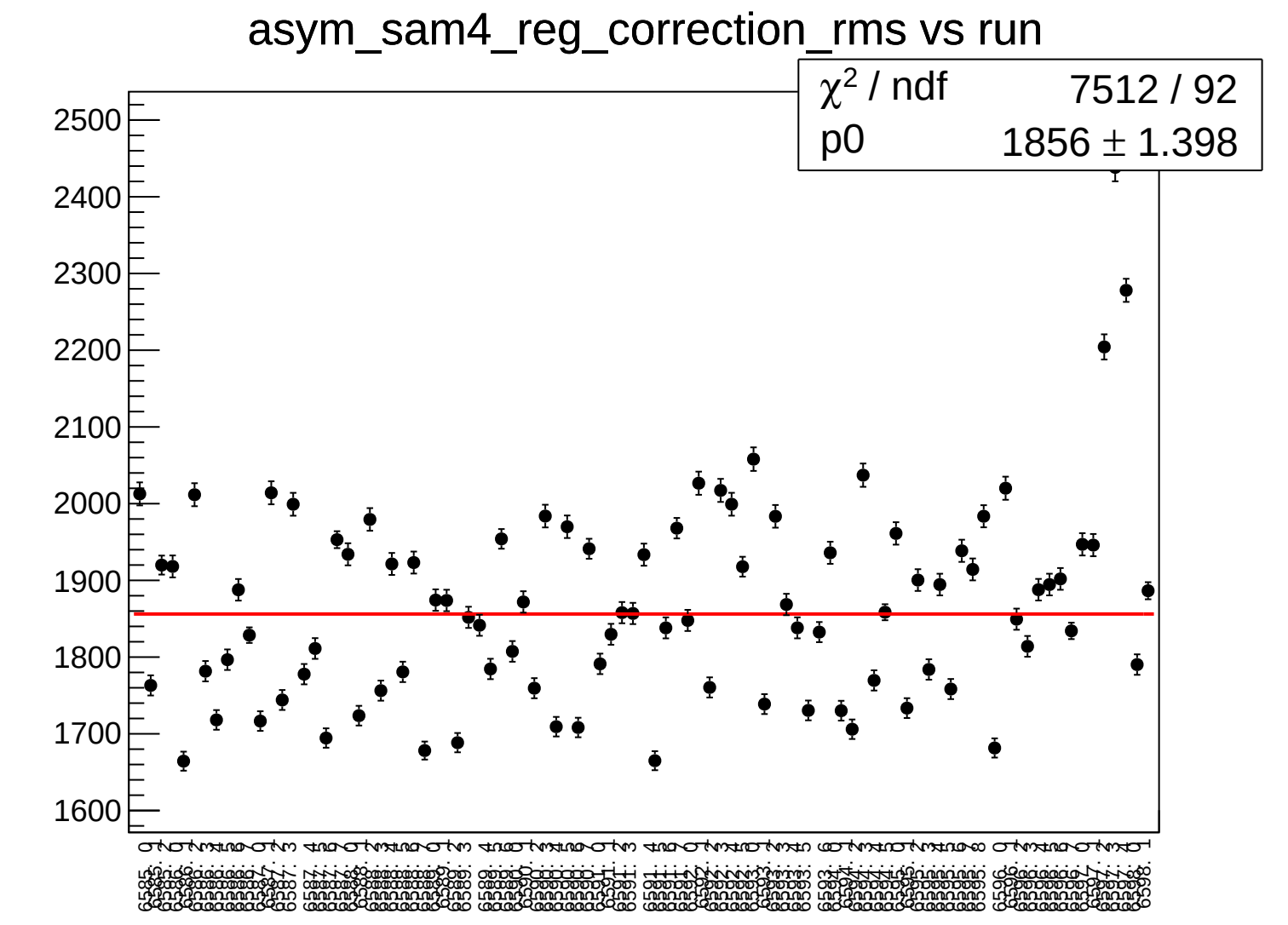

reg_asym_sam4_mean vs run
χ² / ndf 96.19 / 92
p0 −207.2 ± 254.4
pull
Entries 93
Mean −6120
Std Dev 0

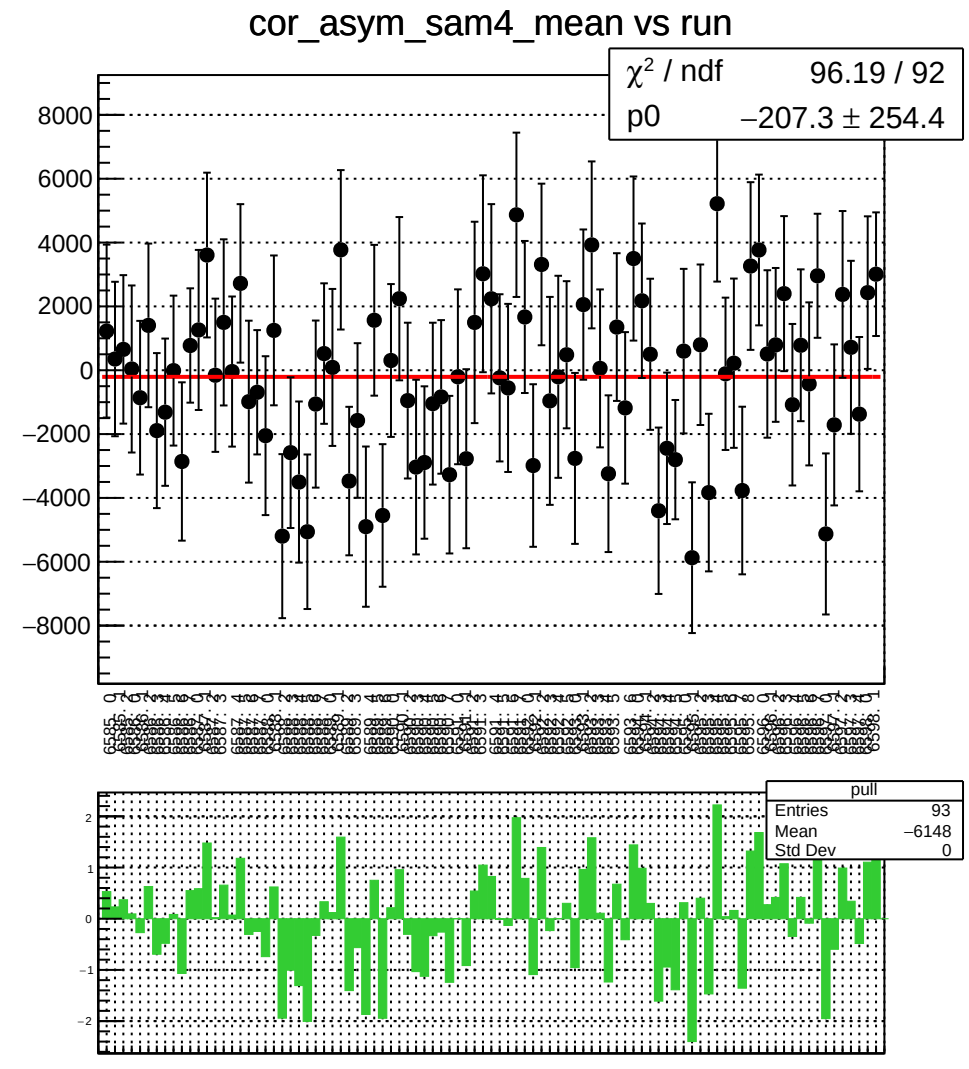

pull1D
Entries 93
Mean −0.0005295
Std Dev 1.017

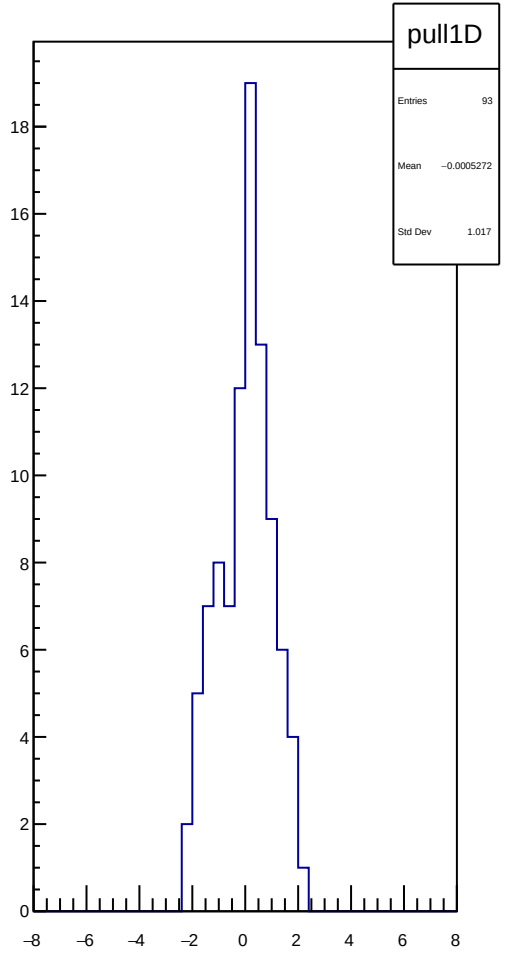

reg_asym_sam4_rms vs run
χ² / ndf 7380 / 92
p0 238.8 ± 0.1799
320
300
280
260
240
220

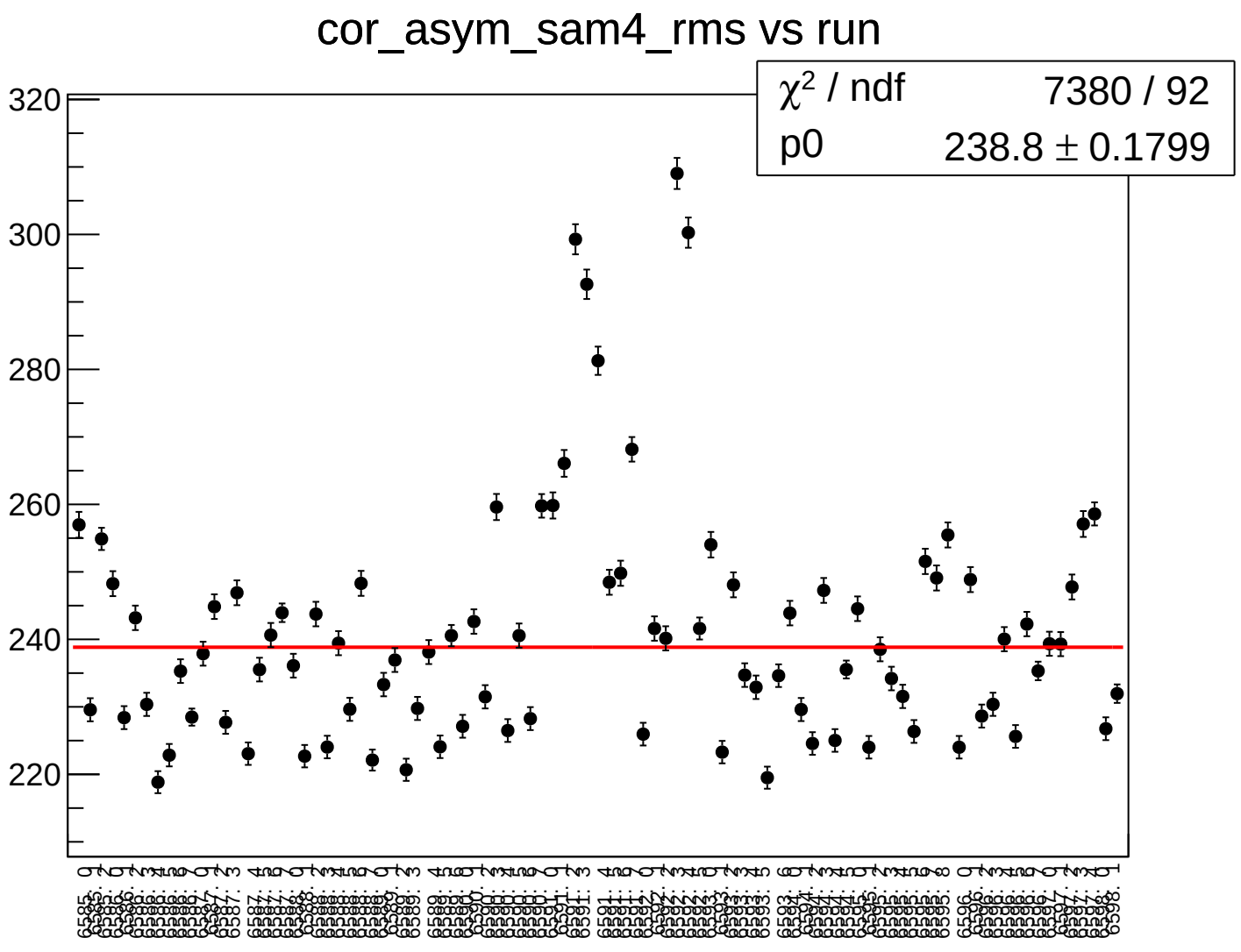

asym_sam4_reg_correction_mean vs run
χ² / ndf 123.6 / 92
p0 160.6 ± 1977
pull
Entries 93
Mean 60.4
Std Dev 0

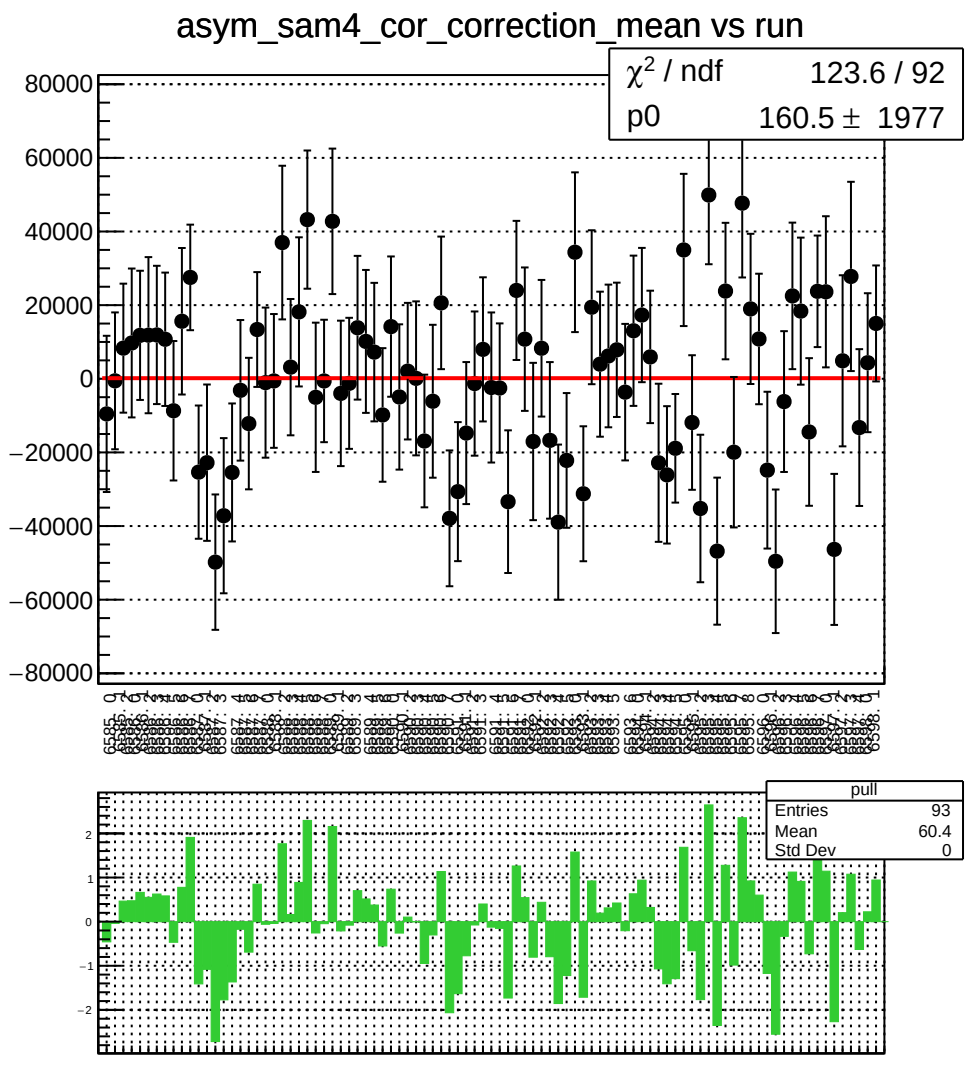

pull1D
Entries 93
Mean −0.00985
Std Dev 1.153

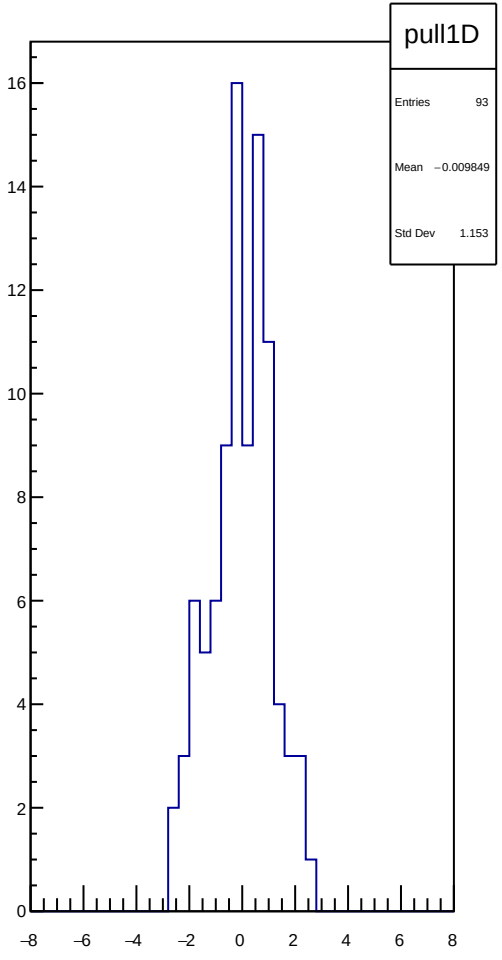

asym_sam4_reg_correction_rms vs run
χ² / ndf 7512 / 92
p0 1856 ± 1.398
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

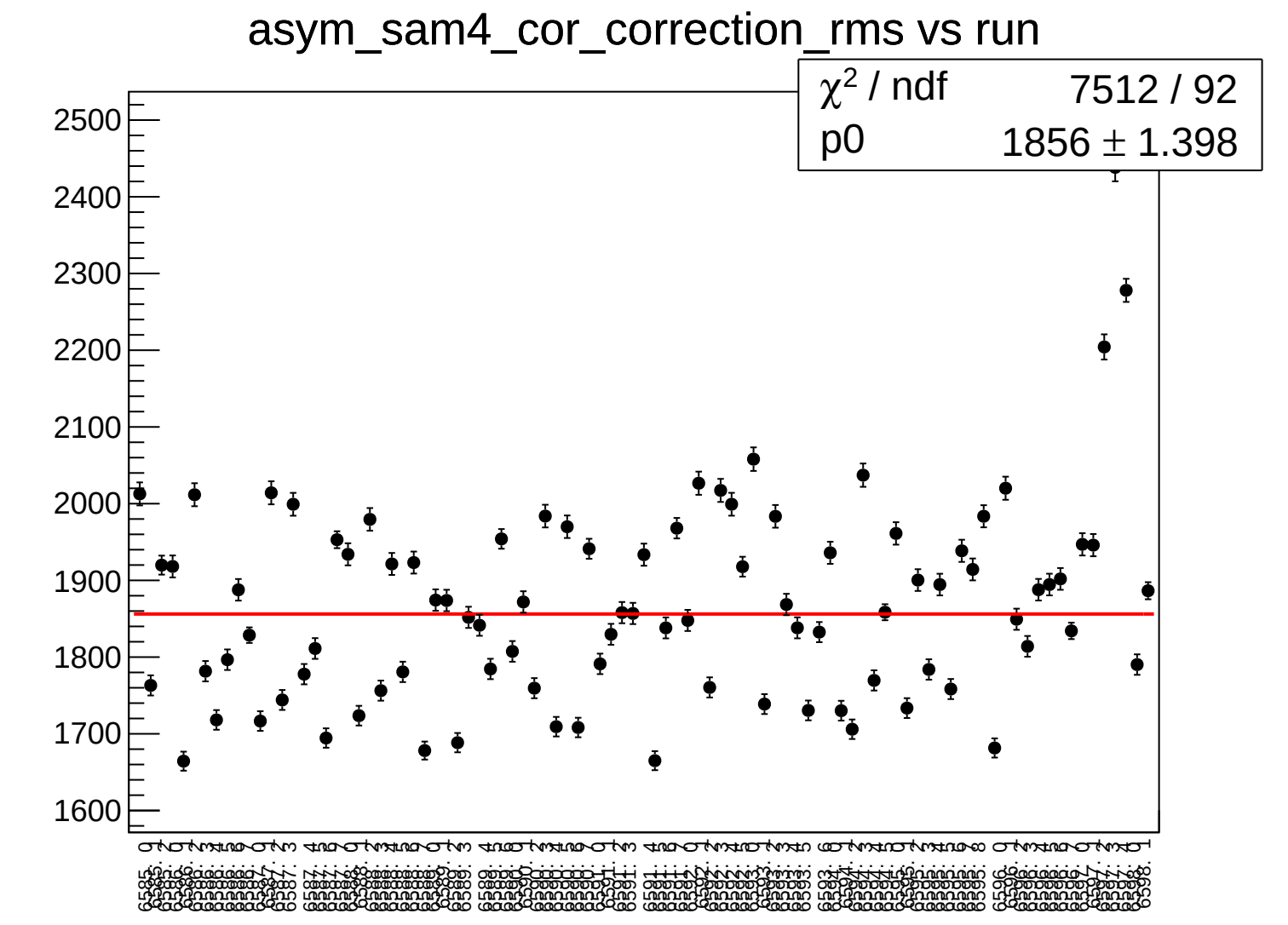

cor_asym_sam4_mean vs run
χ² / ndf 96.19 / 92
p0 −207.3 ± 254.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −6148
Std Dev 0
2
1
0
−1
−2

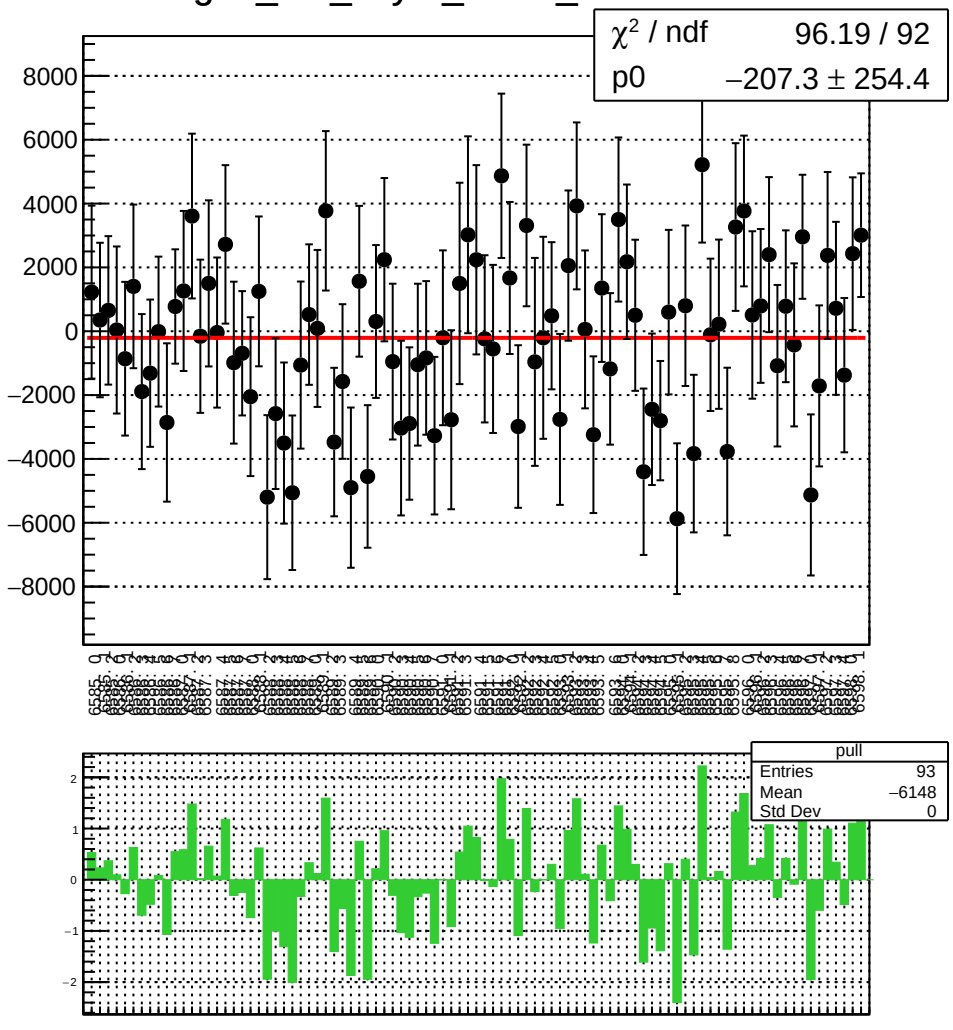

pull1D
Entries 93
Mean −0.0005272
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

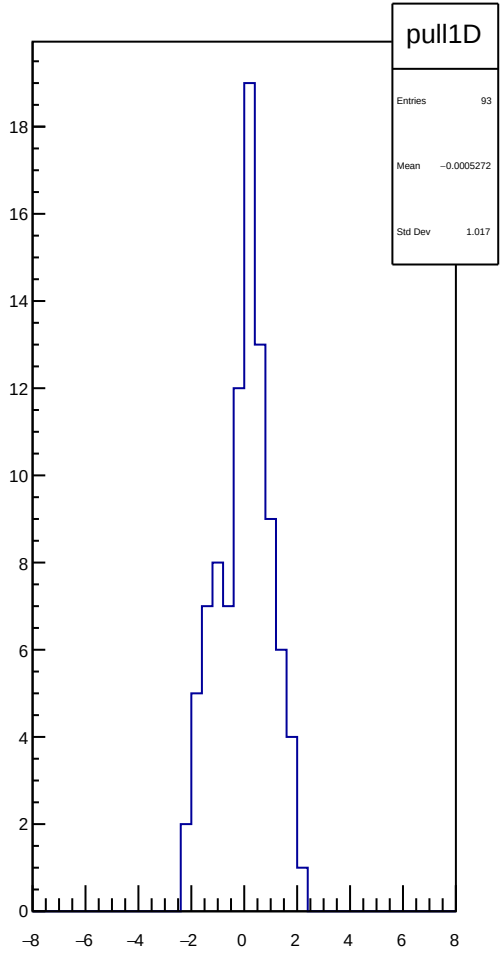

cor_asym_sam4_rms vs run
χ² / ndf 7380 / 92
p0 238.8 ± 0.1799
320
300
280
260
240
220

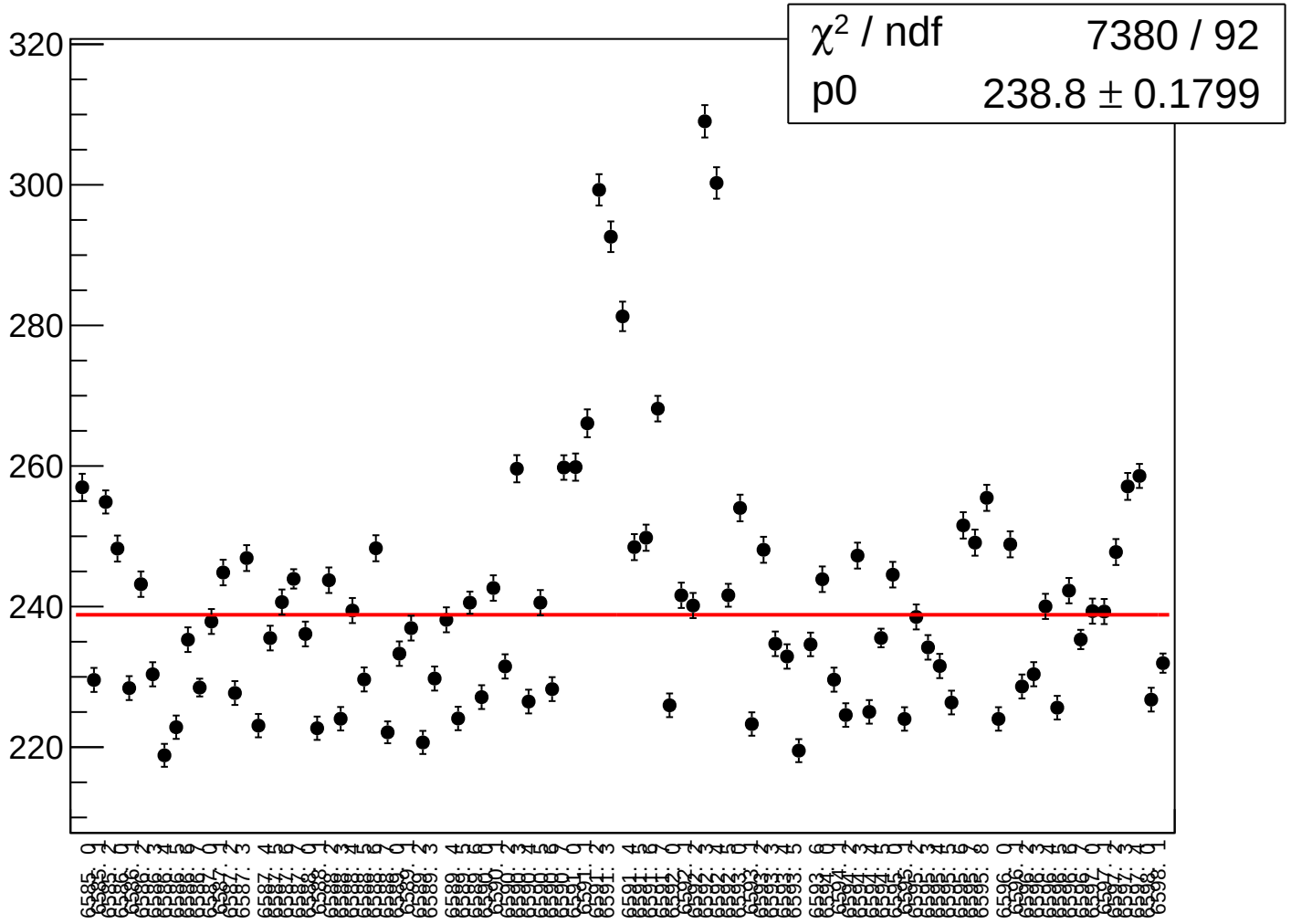

asym_sam4_cor_correction_mean vs run
χ² / ndf 123.6 / 92
p0 160.5 ± 1977
pull
Entries 93
Mean 60.4
Std Dev 0

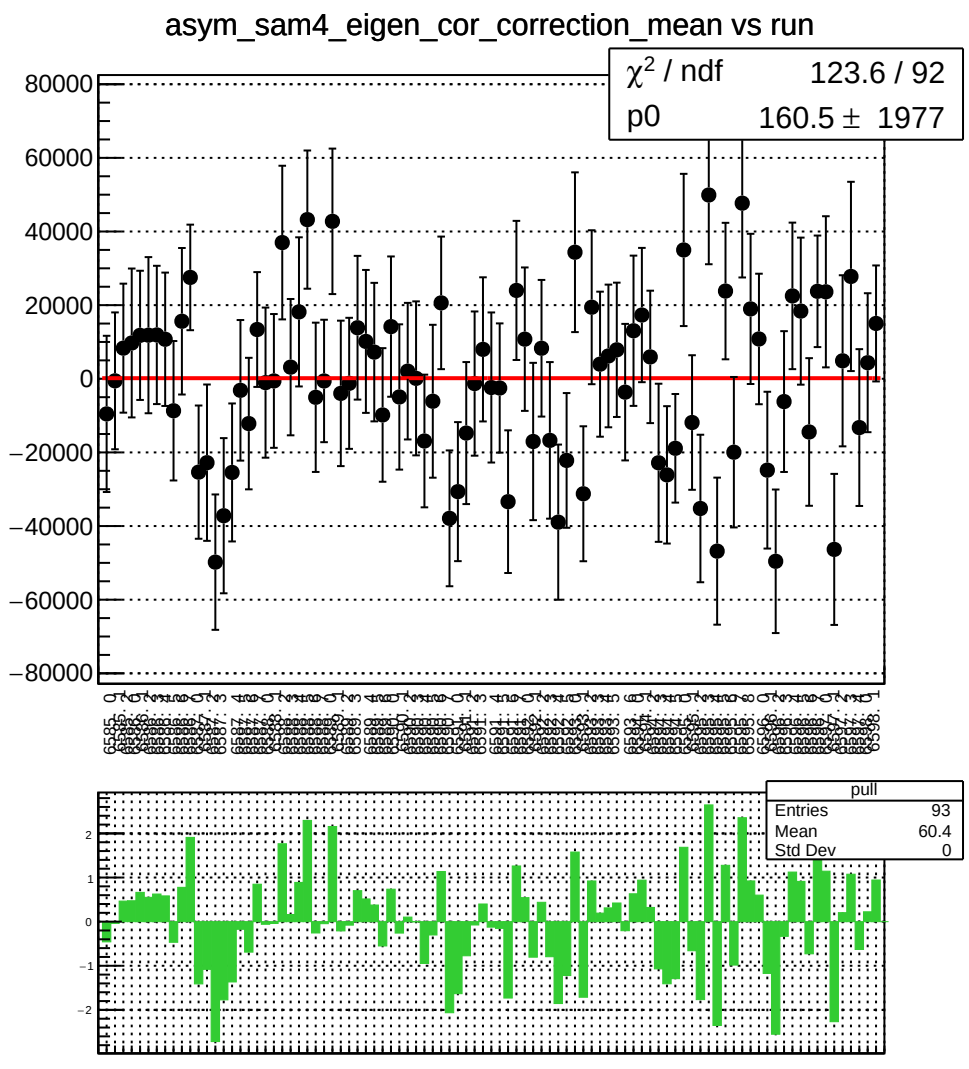

pull1D
Entries 93
Mean −0.009849
Std Dev 1.153

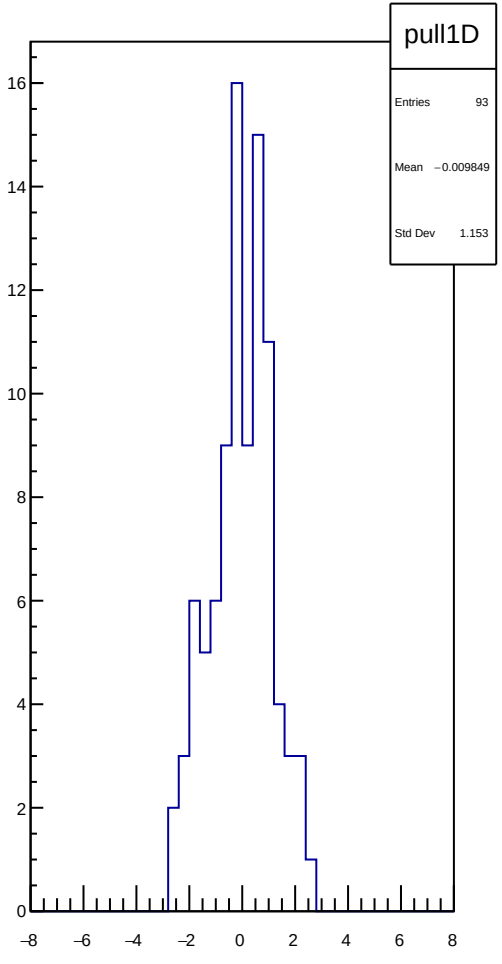

asym_sam4_cor_correction_rms vs run
χ² / ndf 7512 / 92
p0 1856 ± 1.398
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

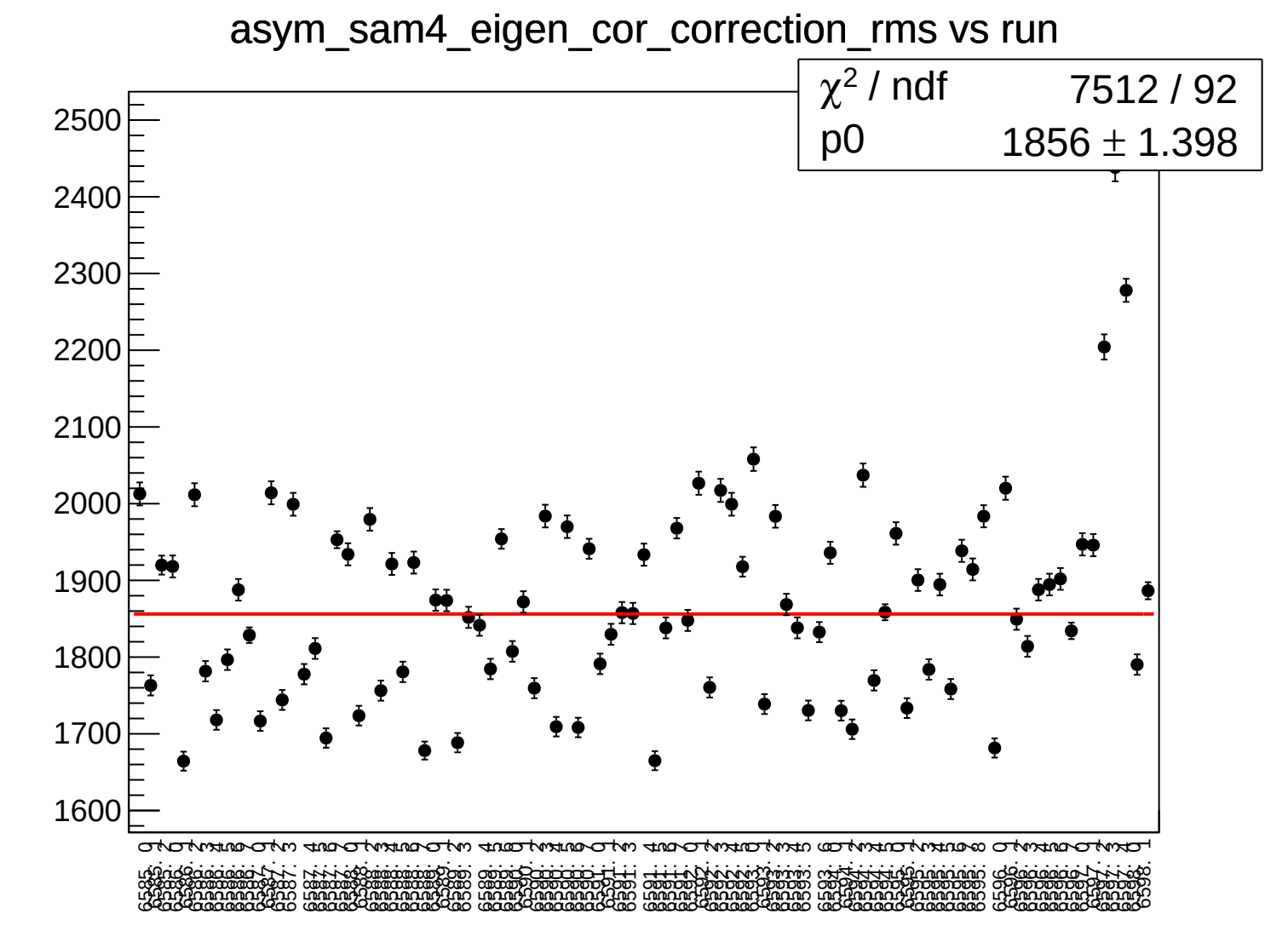

eigen_cor_asym_sam4_mean vs run
χ² / ndf 96.19 / 92
p0 −207.3 ± 254.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −6148
Std Dev 0
2
1
0
−1
−2

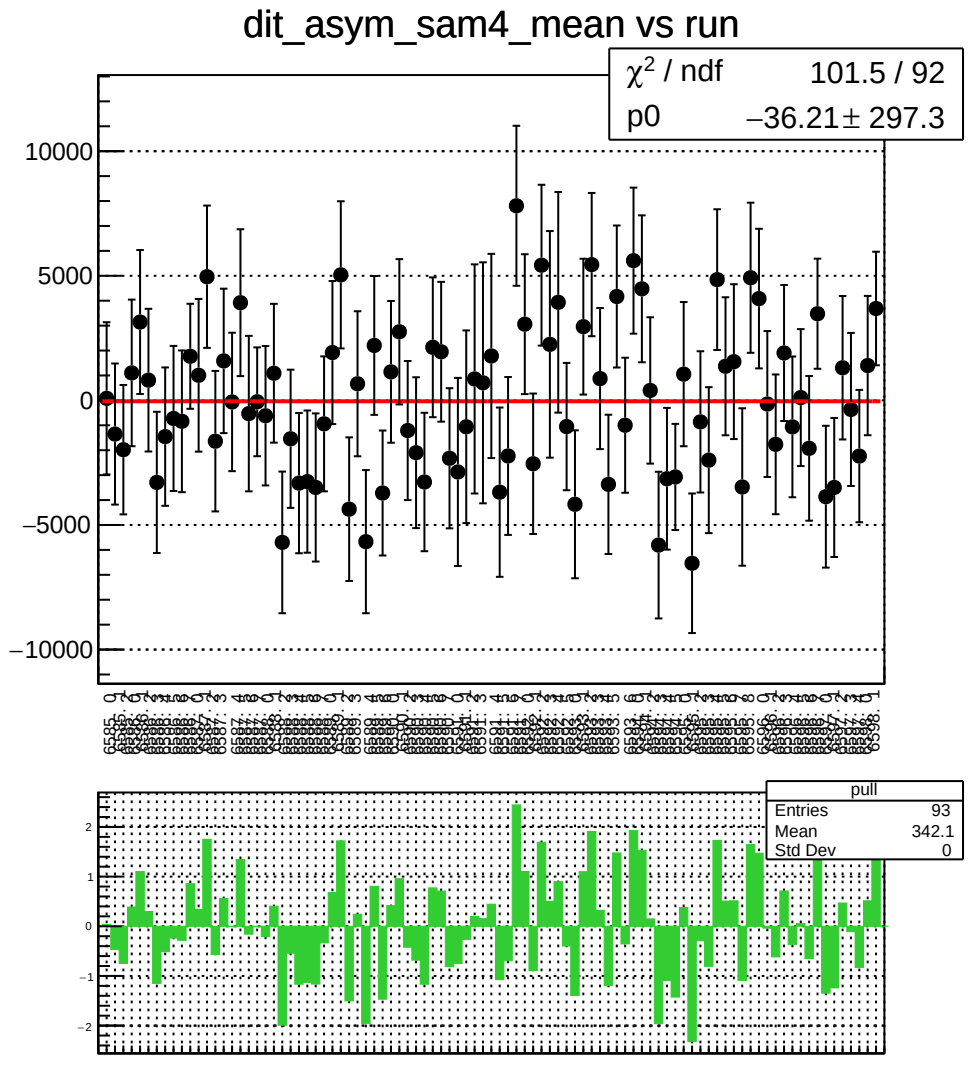

pull1D
Entries 93
Mean −0.0005272
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

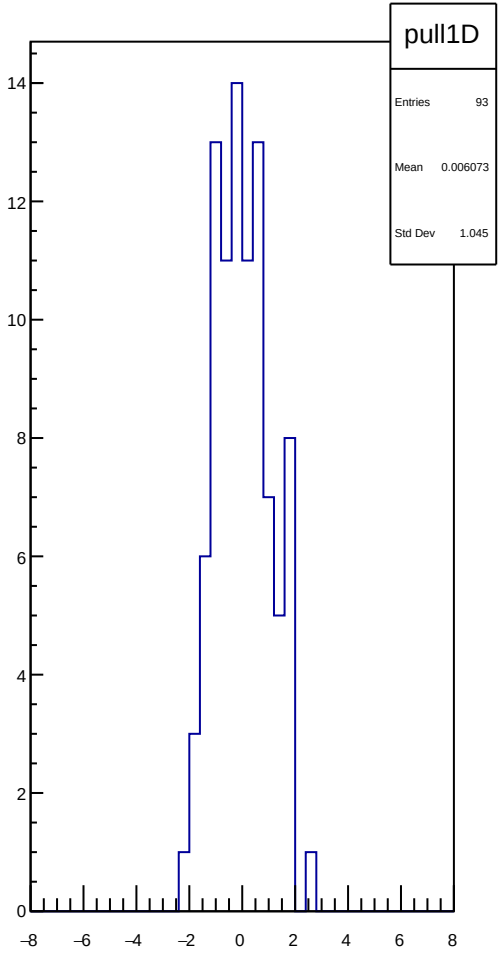

eigen_cor_asym_sam4_rms vs run
χ² / ndf 7380 / 92
p0 238.8 ± 0.1799
320
300
280
260
240
220

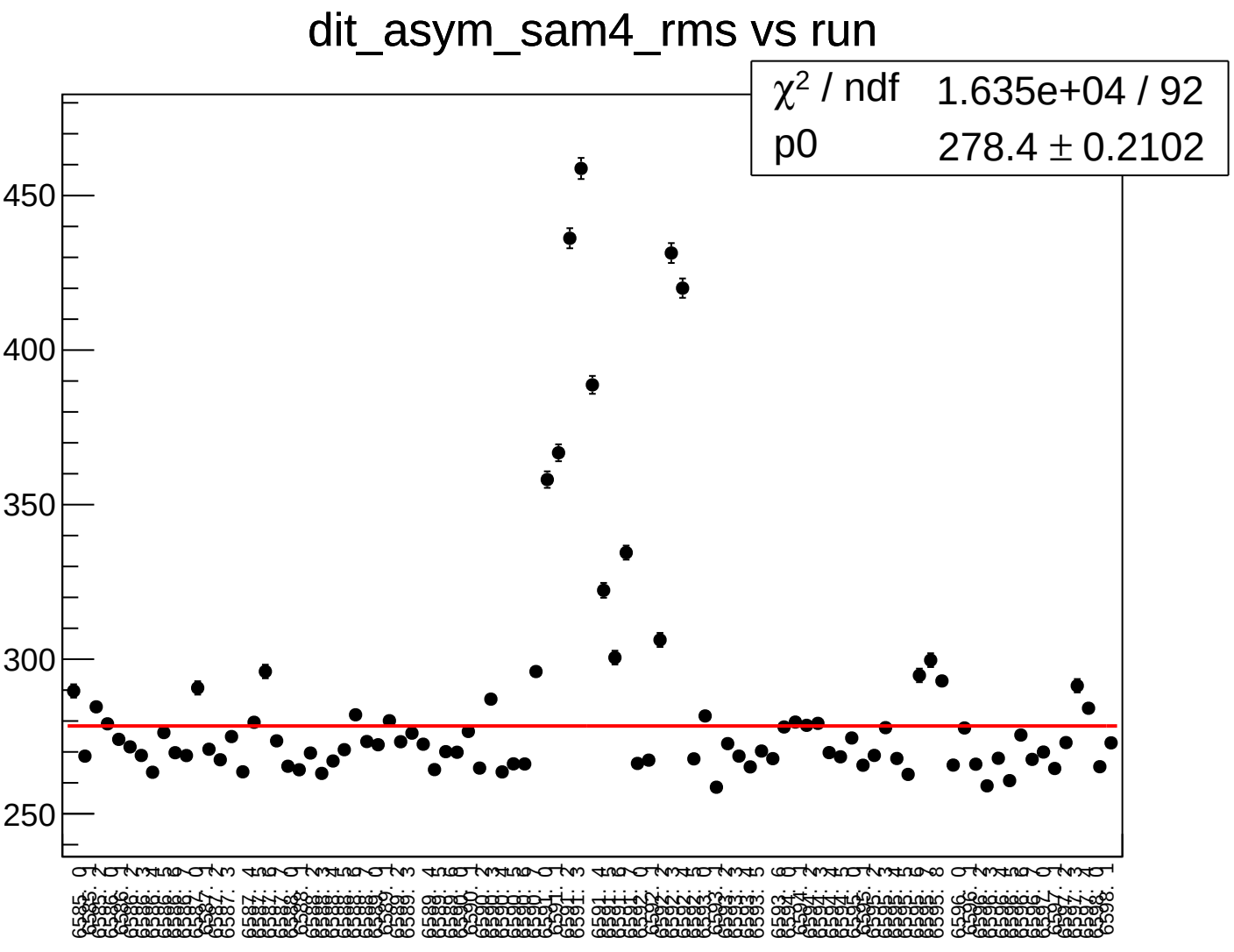

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 123.6 / 92
p0 160.5 ± 1977
pull
Entries 93
Mean 60.4
Std Dev 0

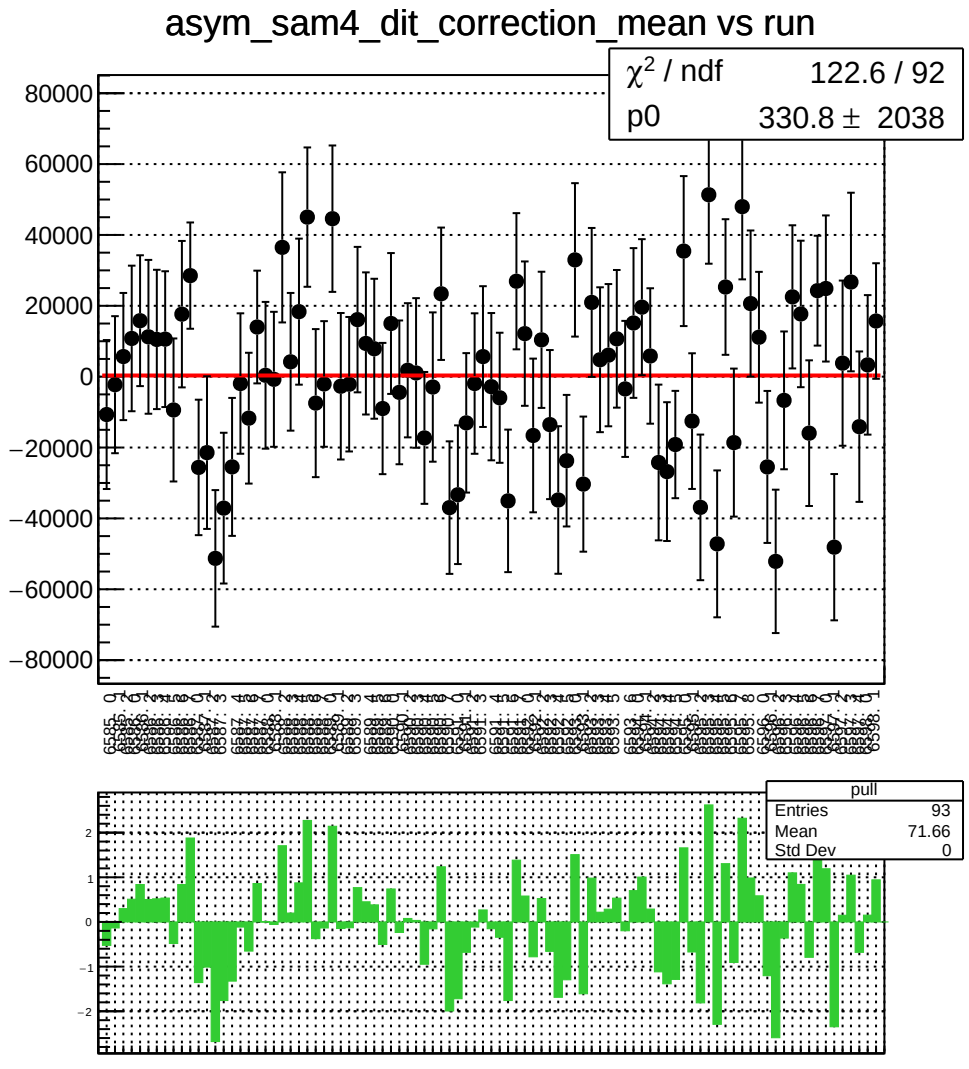

pull1D
Entries 93
Mean −0.009849
Std Dev 1.153

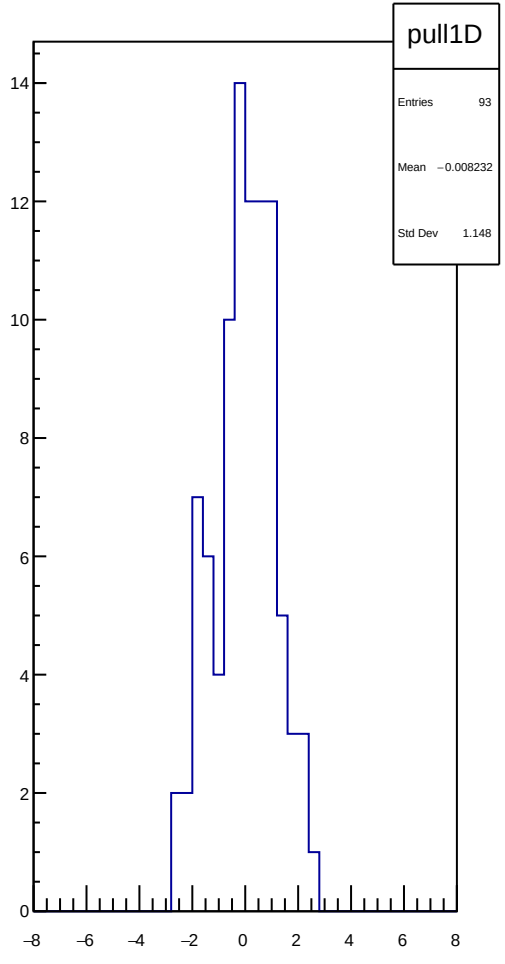

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 7512 / 92
p0 1856 ± 1.398
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

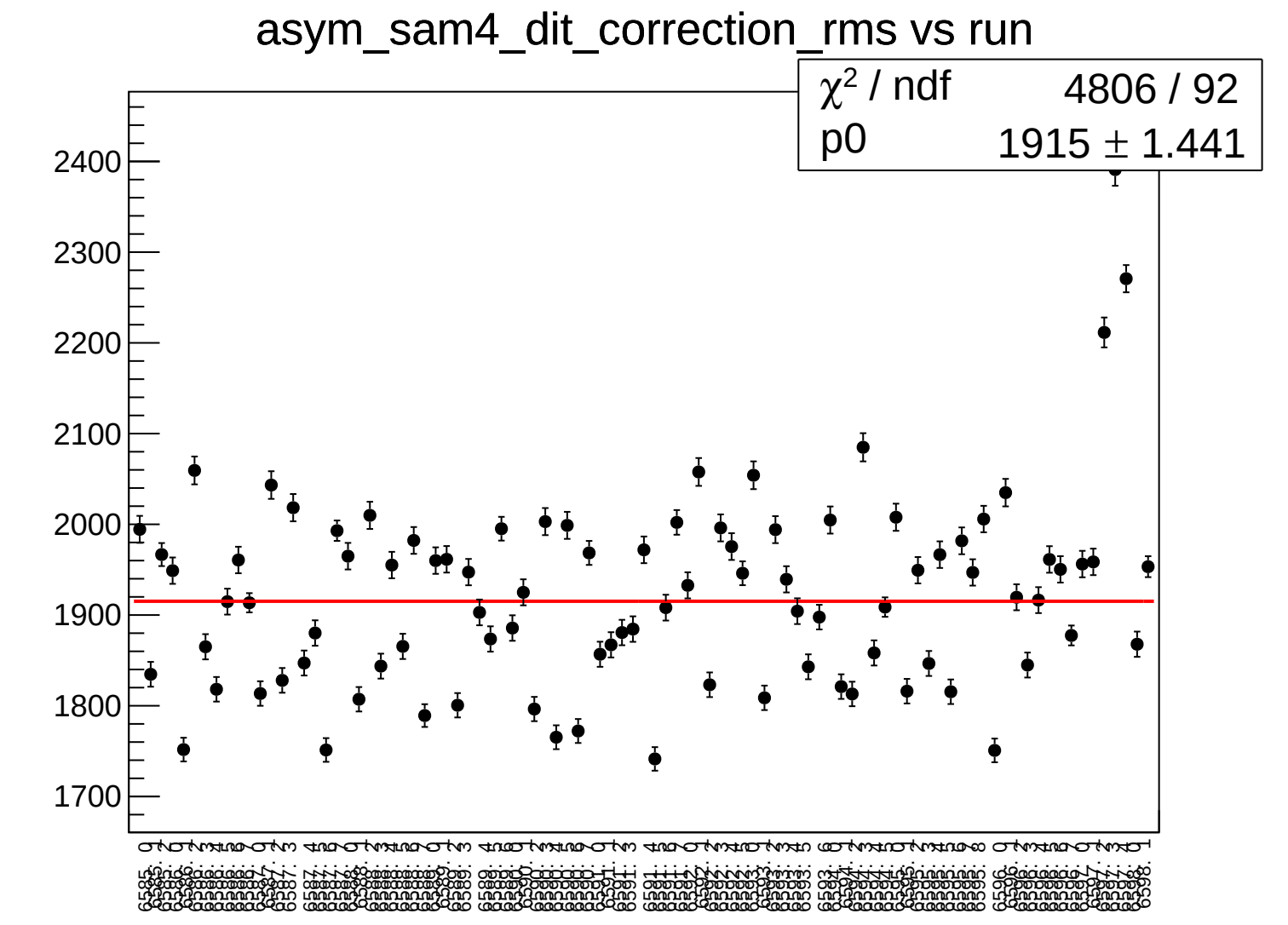

dit_asym_sam4_mean vs run
χ² / ndf 101.5 / 92
p0 −36.21 ± 297.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 342.1
Std Dev 0
2
1
0
−1
−2

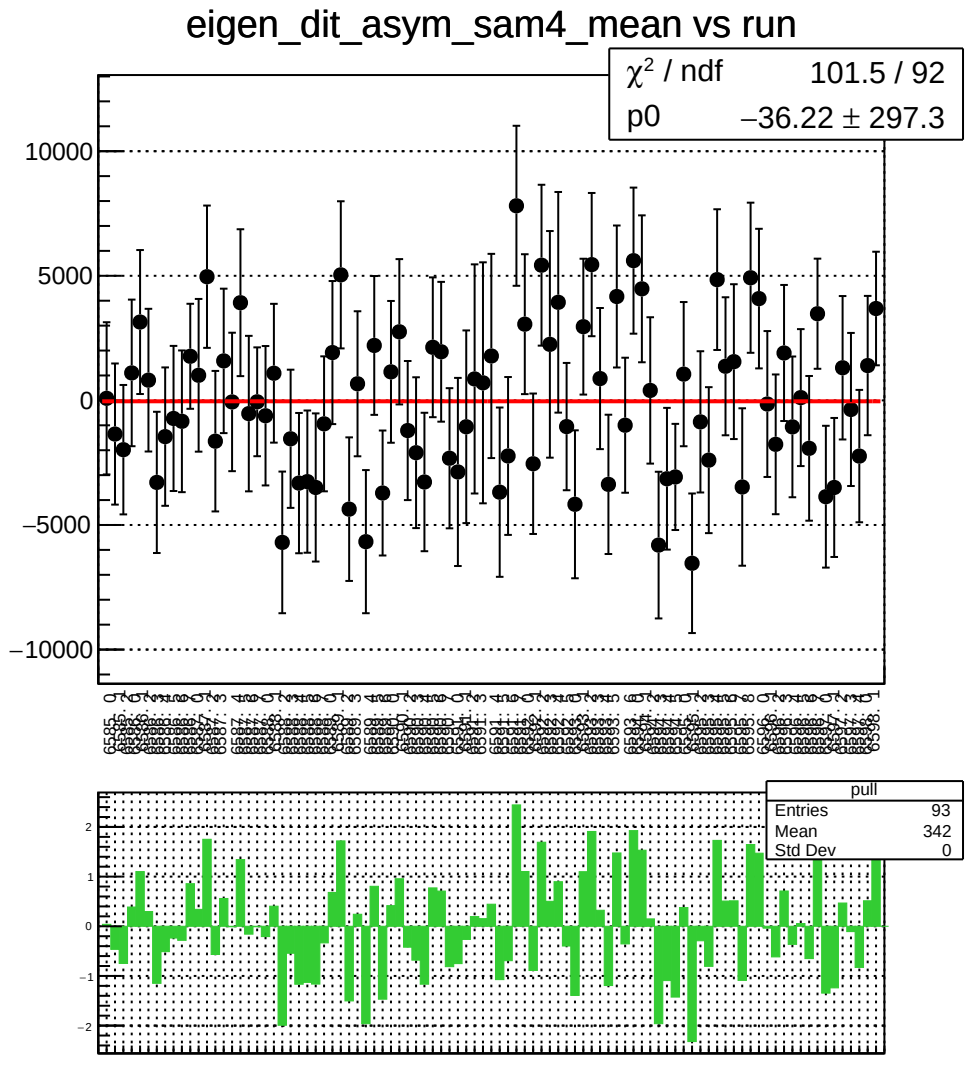

pull1D
Entries 93
Mean 0.006073
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

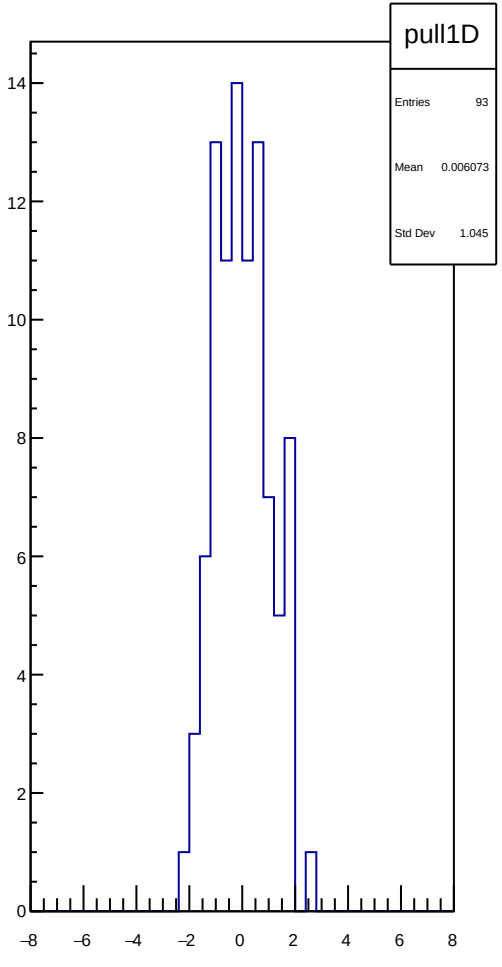

dit_asym_sam4_rms vs run
χ^2 / ndf 1.635e+04 / 92
p0 278.4 ± 0.2102
450
400
350
300
250

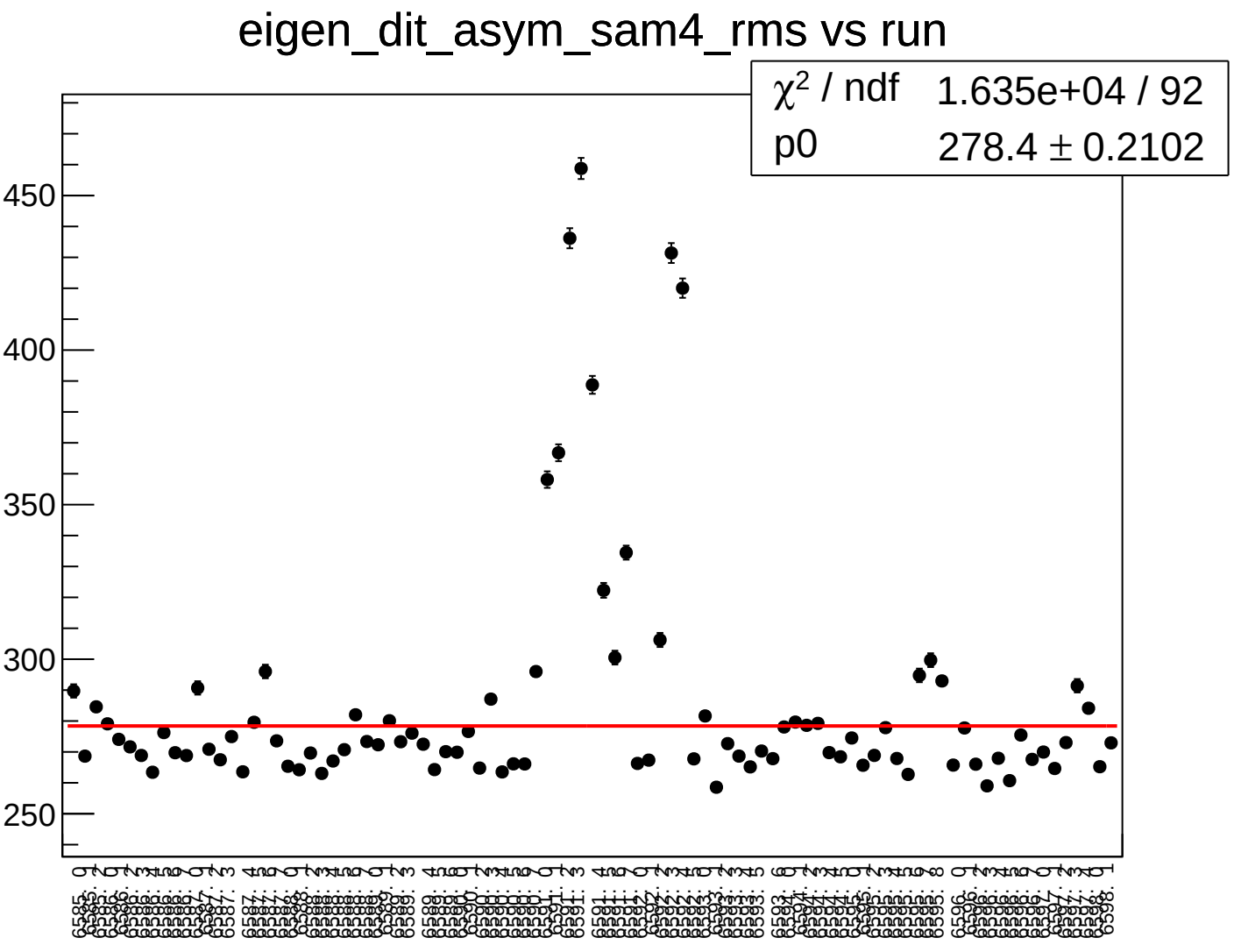

asym_sam4_dit_correction_mean vs run
χ² / ndf 122.6 / 92
p0 330.8 ± 2038
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 71.66
Std Dev 0
2
1
0
−1
−2

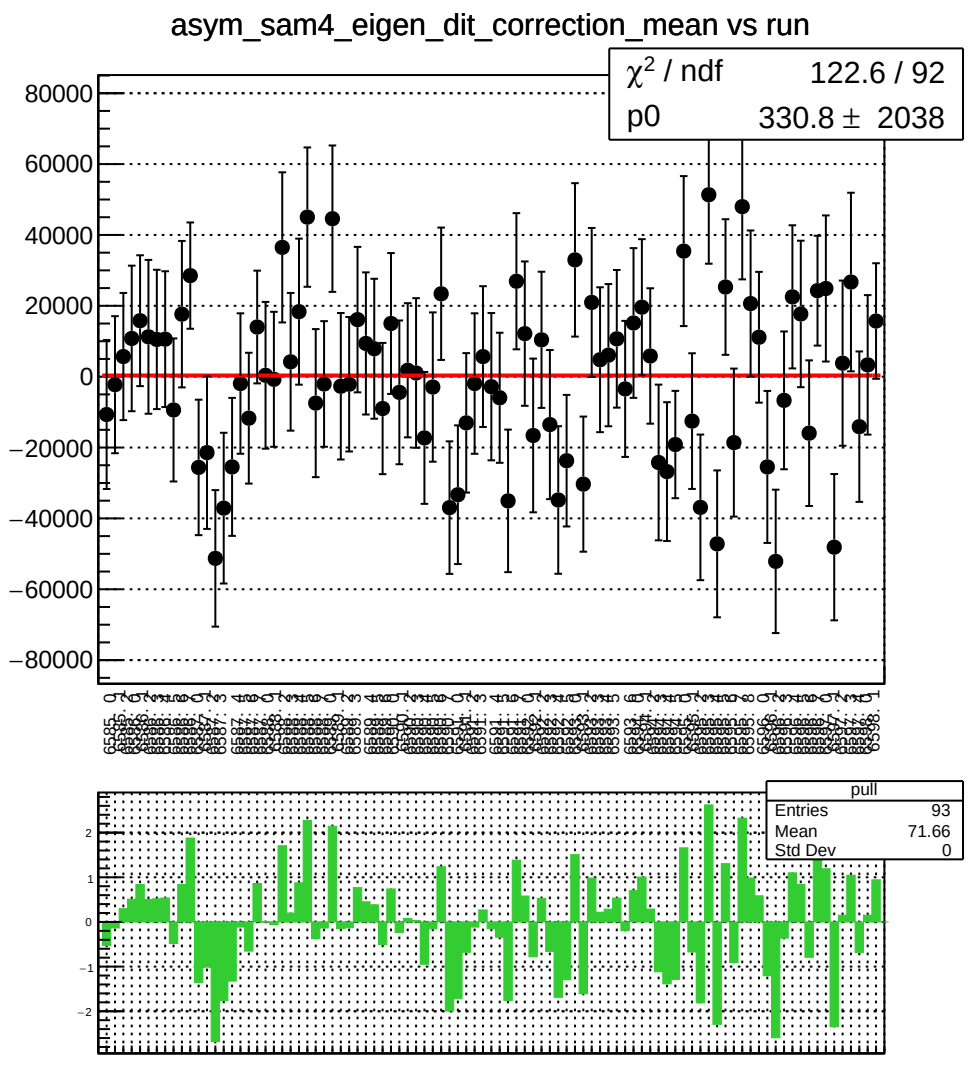

pull1D
Entries 93
Mean −0.008232
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

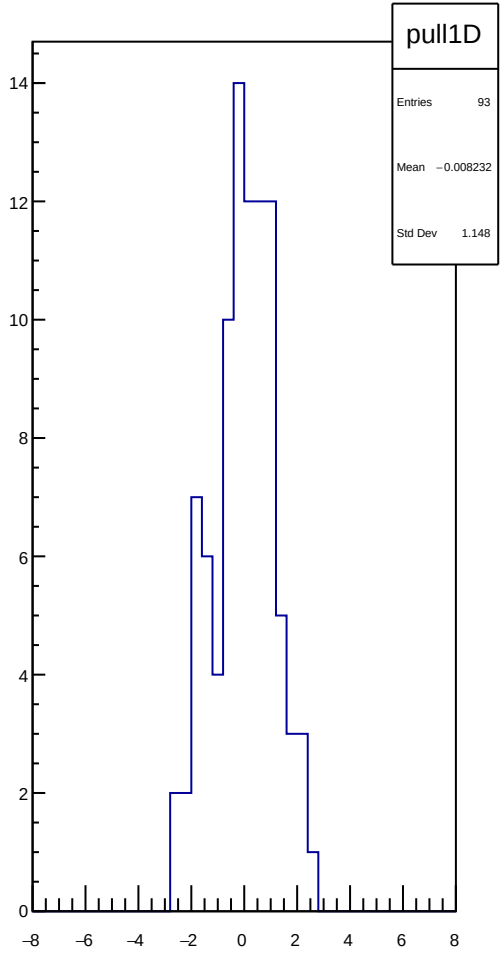

asym_sam4_dit_correction_rms vs run
χ² / ndf 4806 / 92
p0 1915 ± 1.441
2400
2300
2200
2100
2000
1900
1800
1700

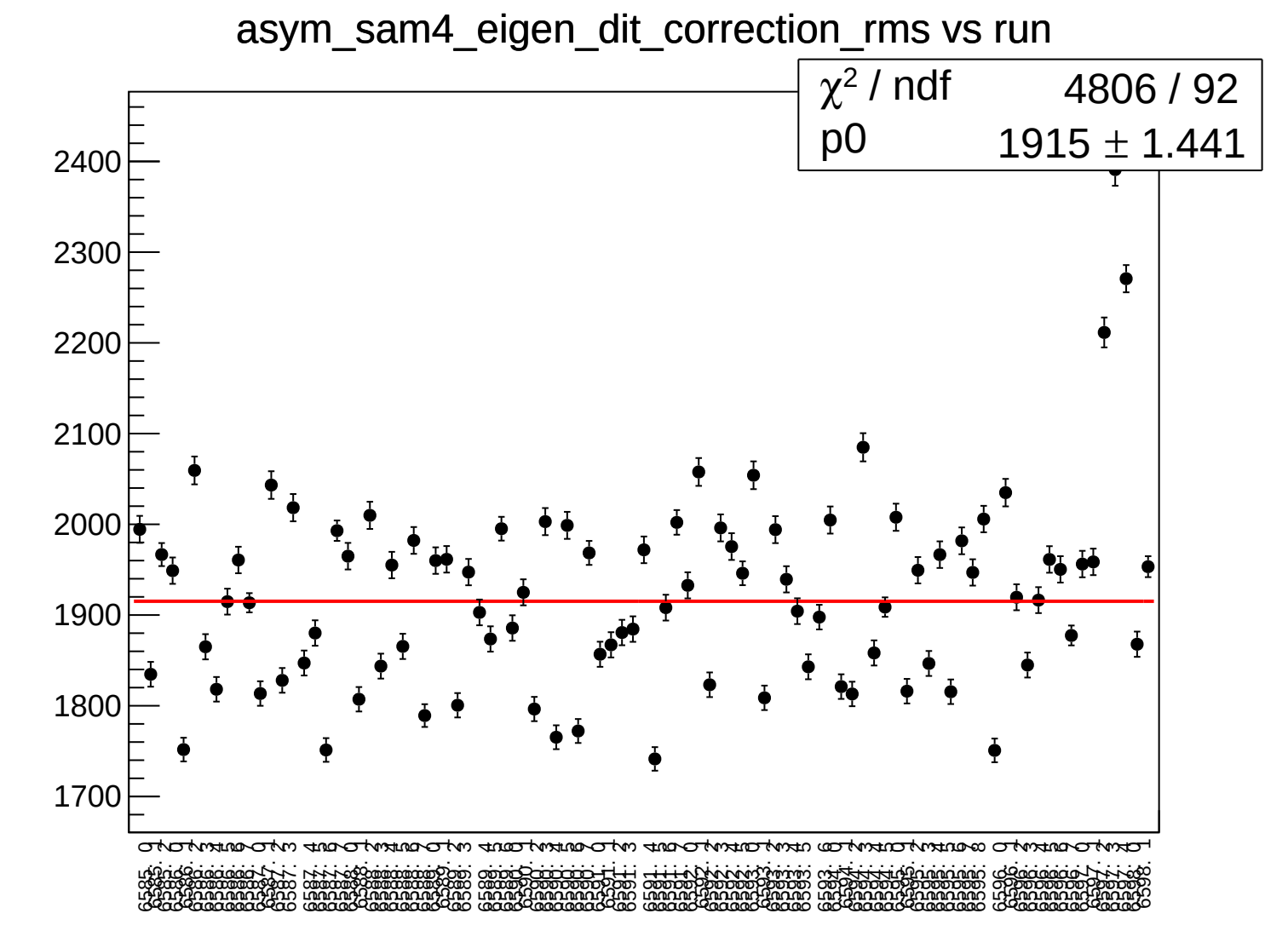

eigen_dit_asym_sam4_mean vs run
χ² / ndf 101.5 / 92
p0 −36.22 ± 297.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 342
Std Dev 0
2
1
0
−1
−2

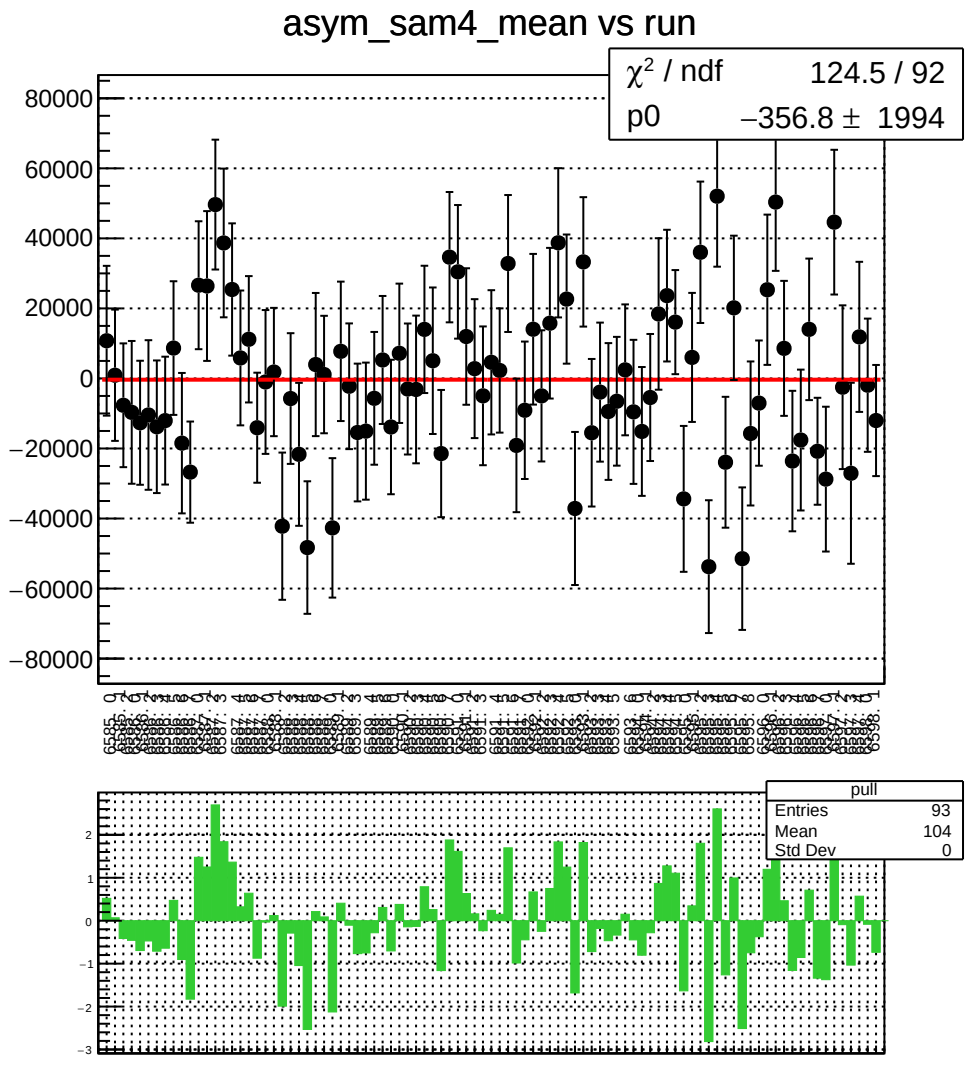

pull1D
Entries 93
Mean 0.006073
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

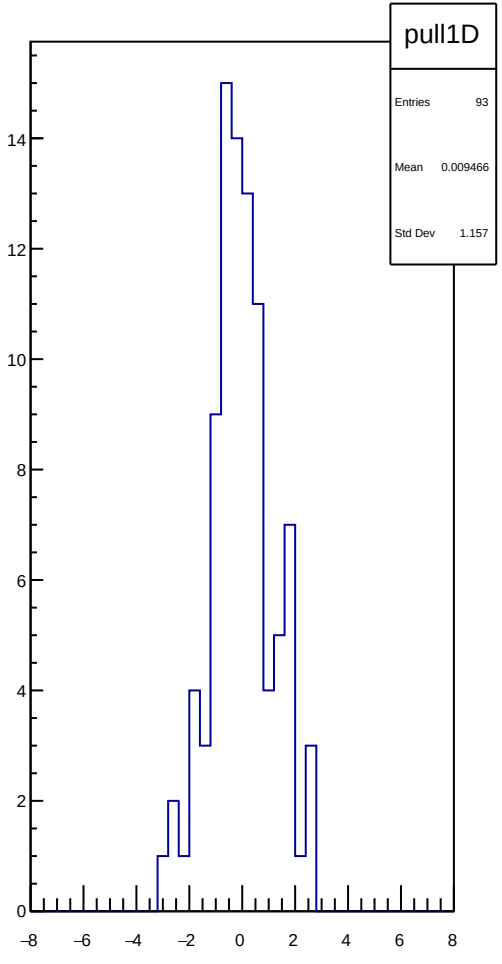

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 1.635e+04 / 92
p0 278.4 ± 0.2102
450
400
350
300
250

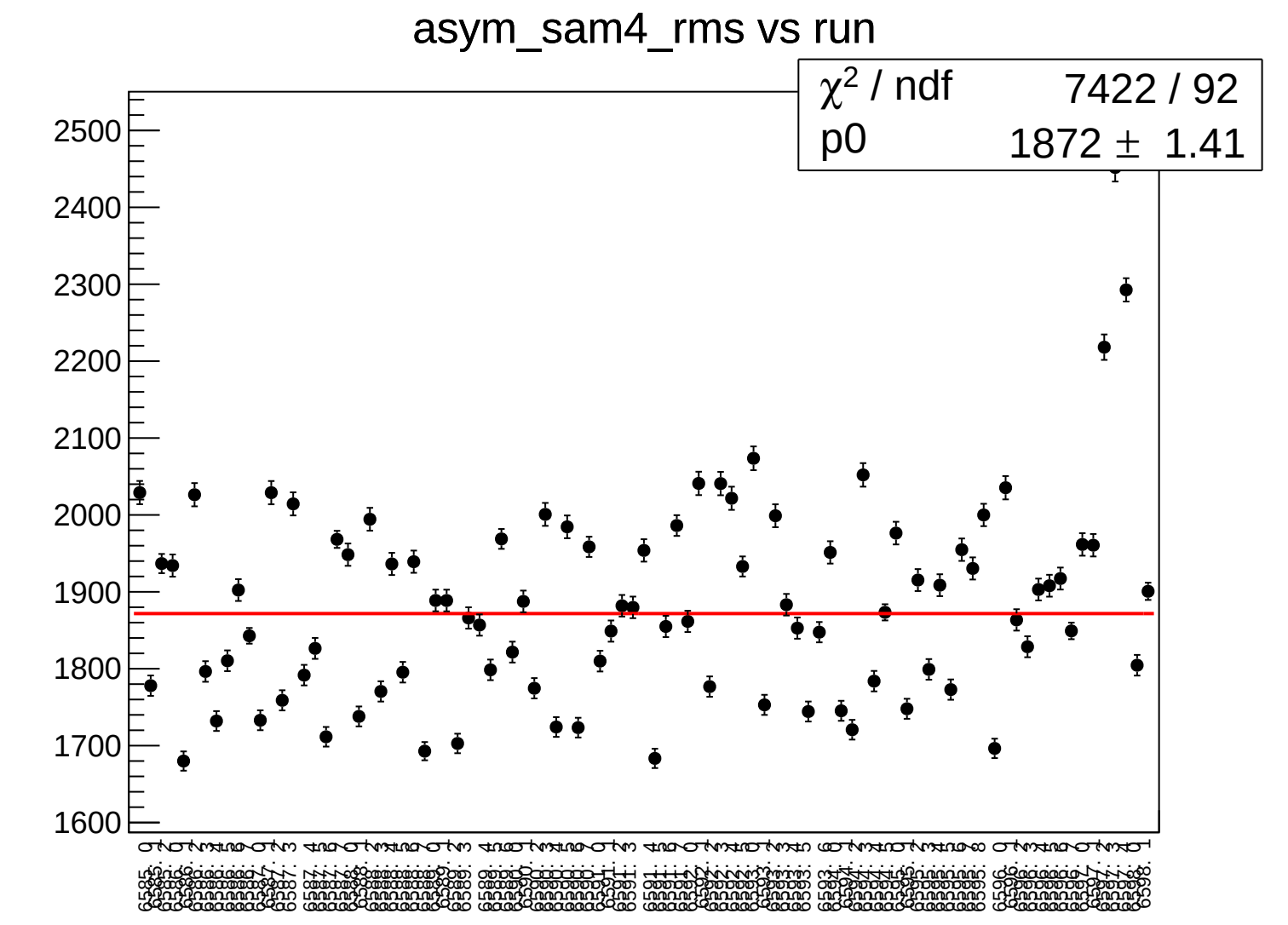

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 122.6 / 92
p0 330.8 ± 2038
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 71.66
Std Dev 0
2
1
0
−1
−2

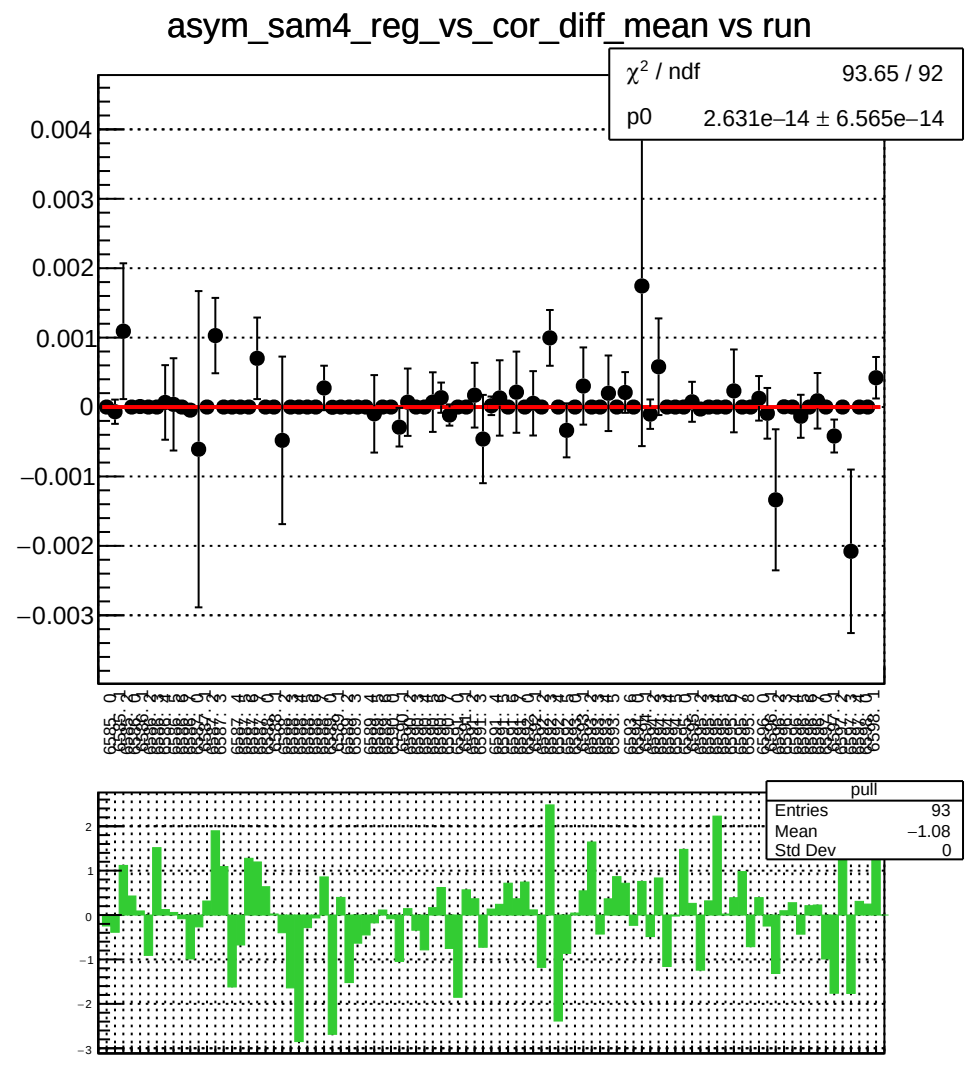

pull1D
Entries 93
Mean −0.008232
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

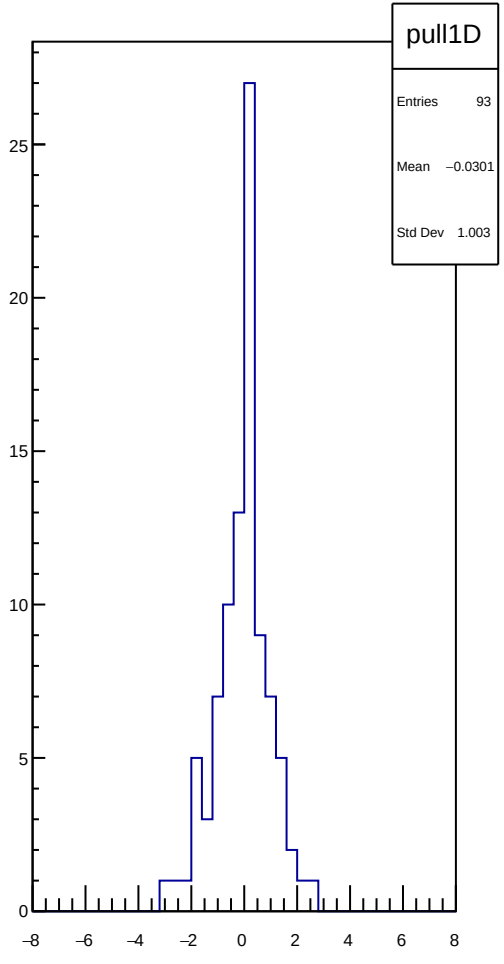

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 4806 / 92
p0 1915 ± 1.441
2400
2300
2200
2100
2000
1900
1800
1700

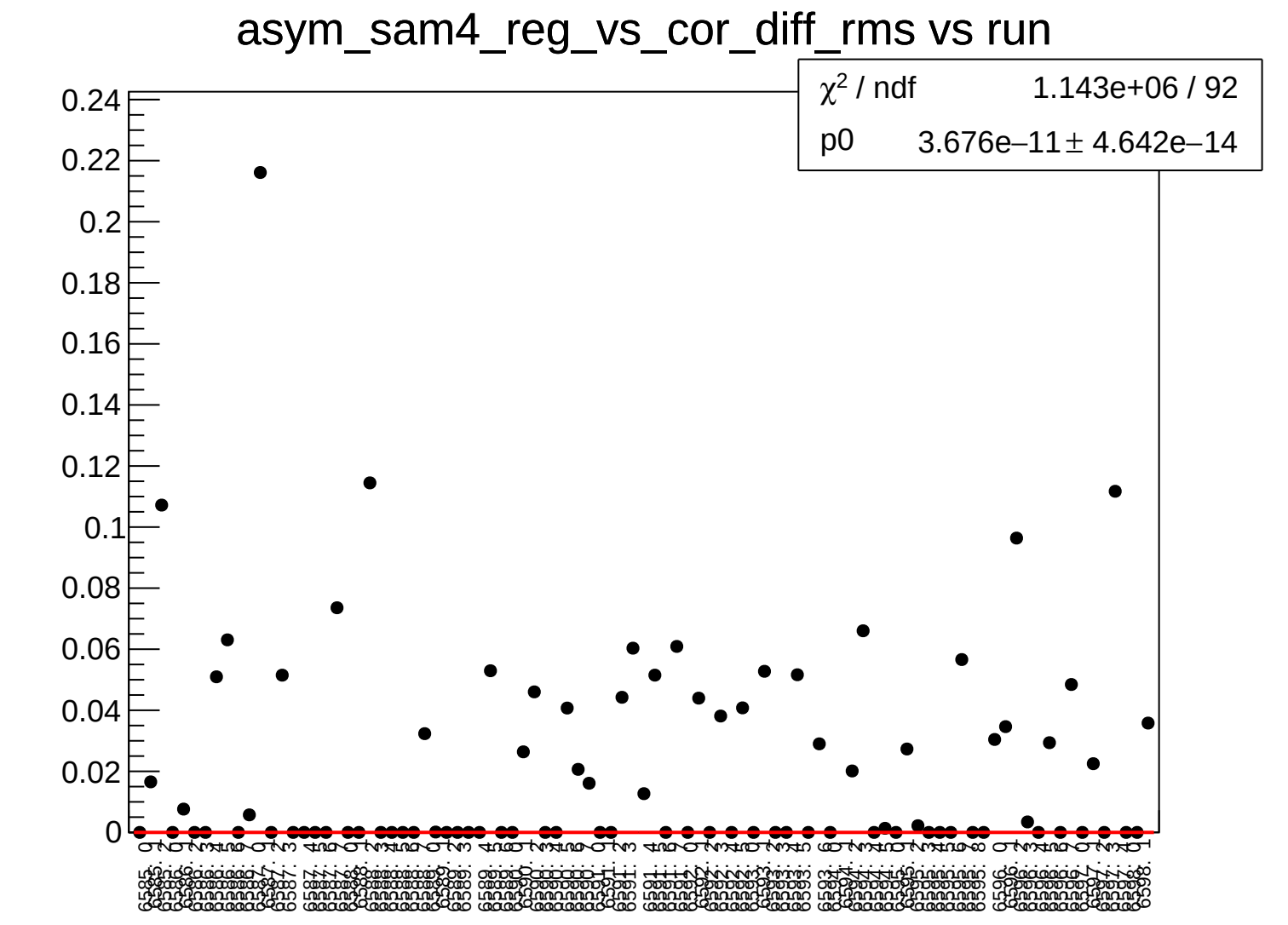

asym_sam4_mean vs run
χ² / ndf 124.5 / 92
p0 −356.8 ± 1994
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 104
Std Dev 0
2
1
0
−1
−2
−3

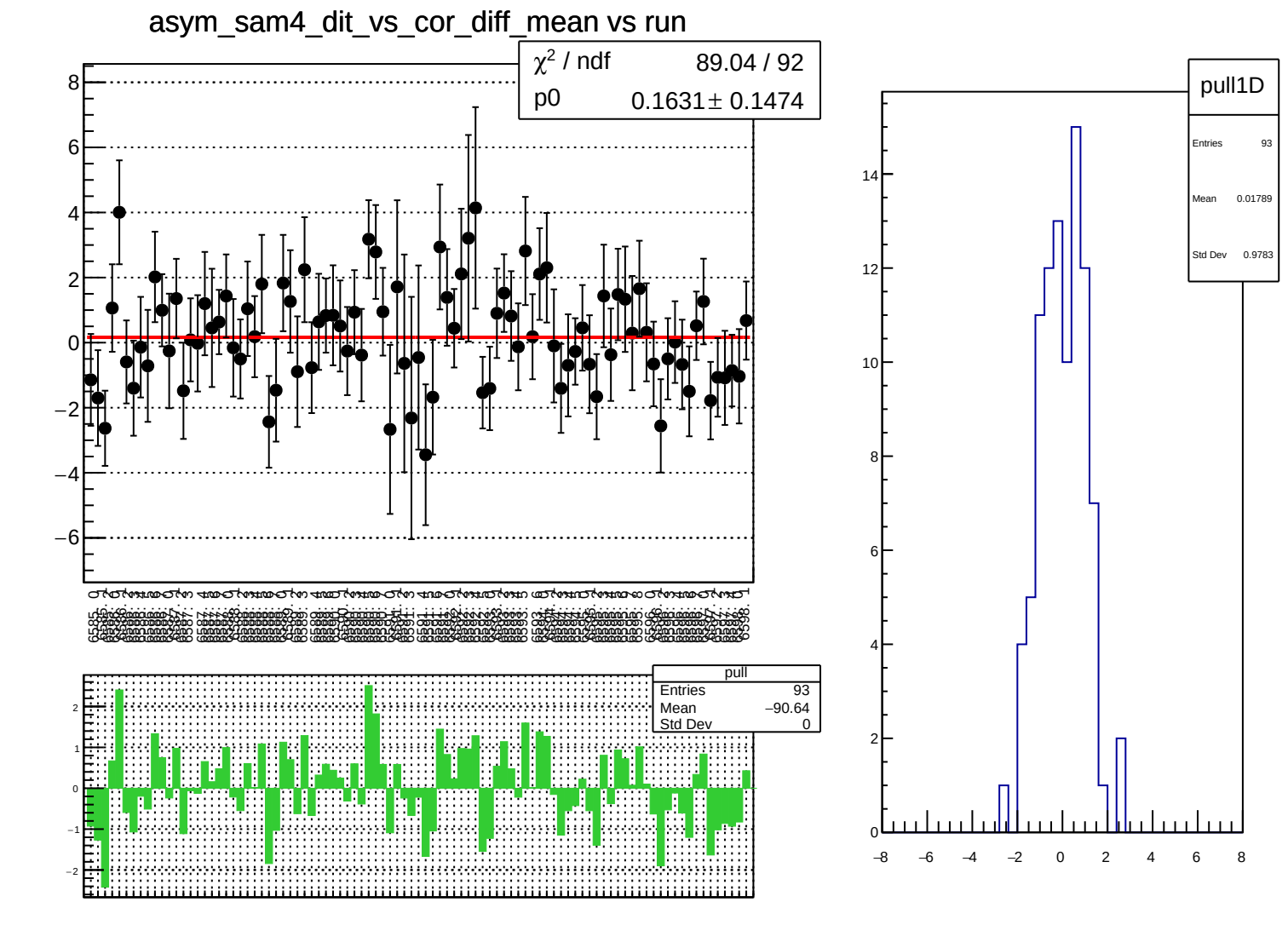

pull1D
Entries 93
Mean 0.009466
Std Dev 1.157
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

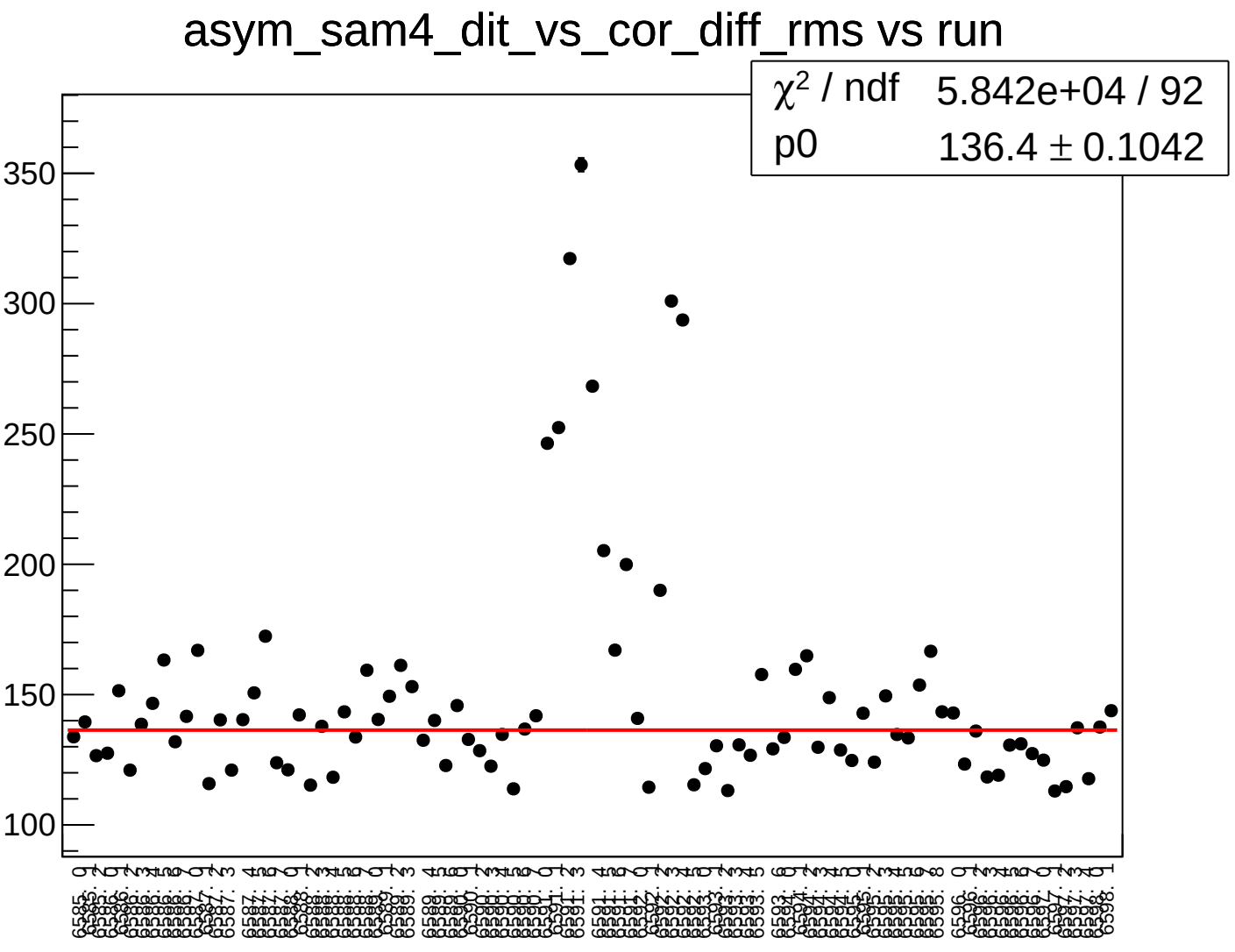

asym_sam4_rms vs run
χ^2 / ndf 7422 / 92
p0 1872 ± 1.41
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

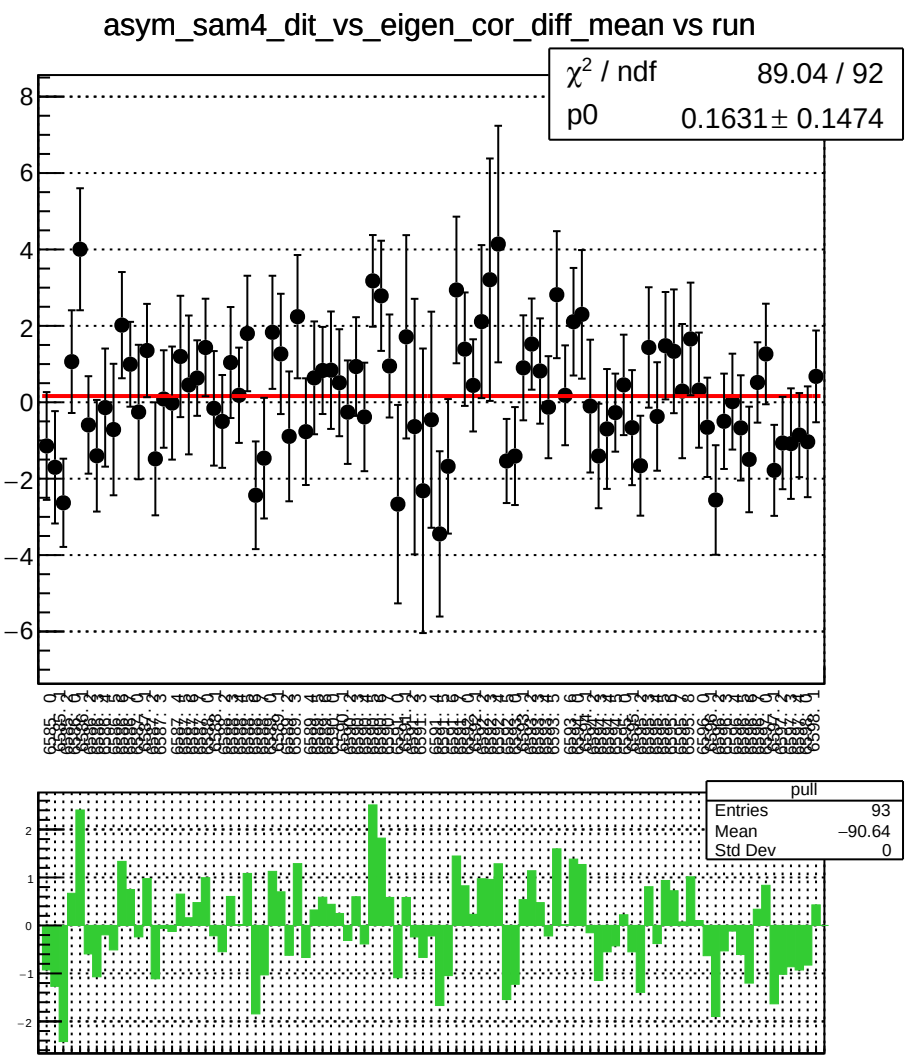

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 93.65 / 92
p0 2.631e−14 ± 6.565e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean −1.08
Std Dev 0
2
1
0
−1
−2
−3

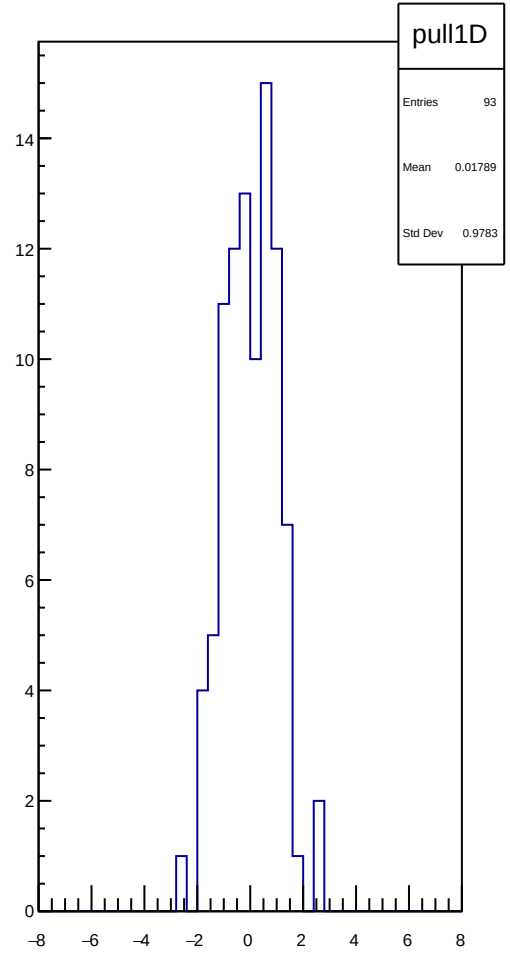

pull1D
Entries 93
Mean −0.0301
Std Dev 1.003
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

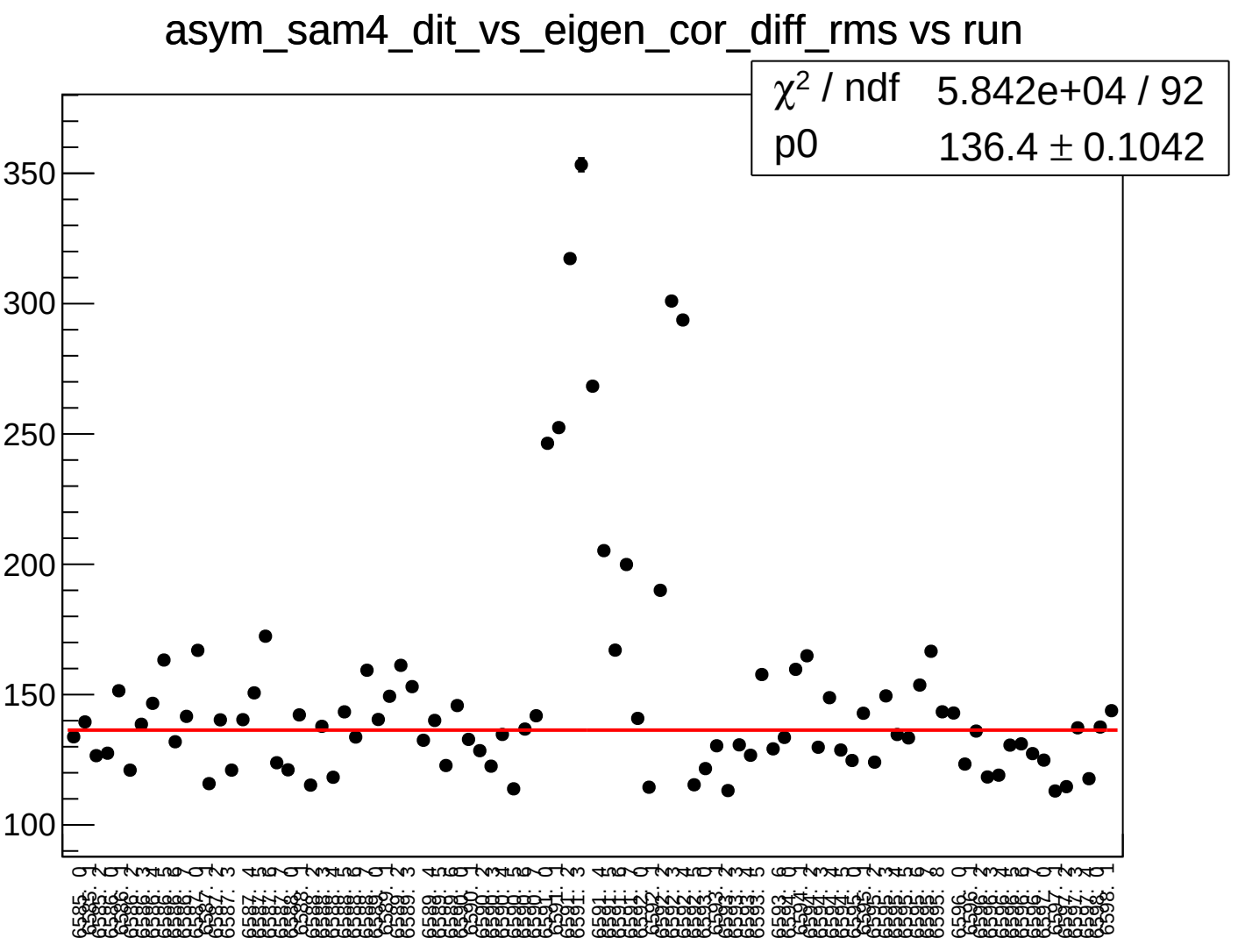

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.143e+06 / 92
p0 3.676e−11 ± 4.642e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

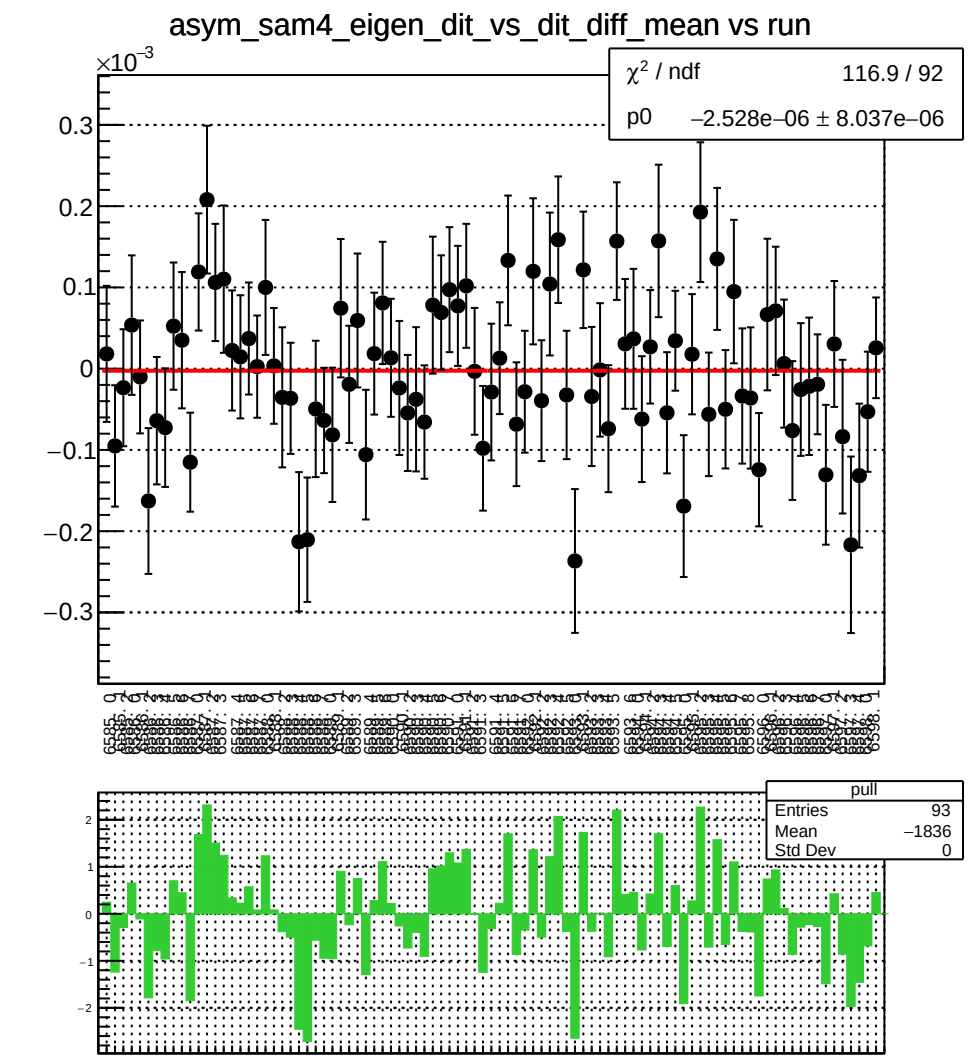

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 89.04 / 92
p0 0.1631 ± 0.1474
pull
Entries 93
Mean −90.64
Std Dev 0
pull1D
Entries 93
Mean 0.01789
Std Dev 0.9783

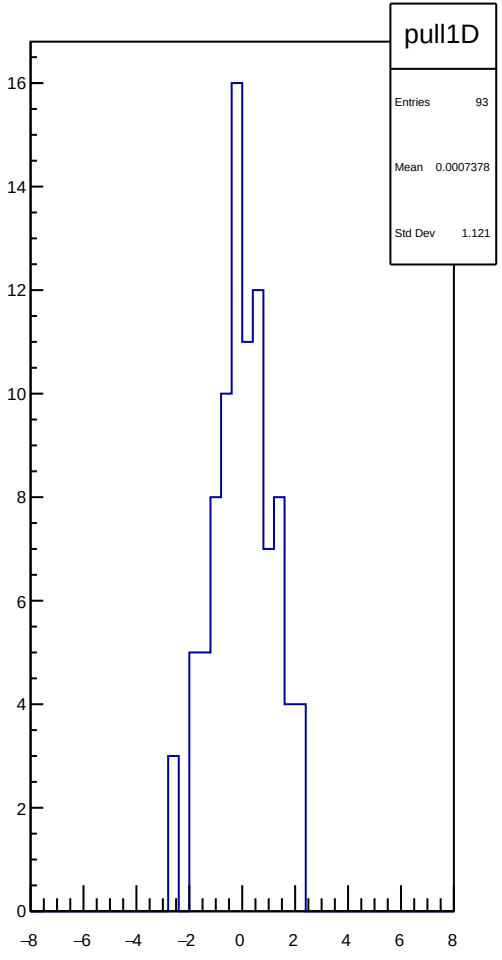

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 5.842e+04 / 92
p0 136.4 ± 0.1042
350
300
250
200
150
100

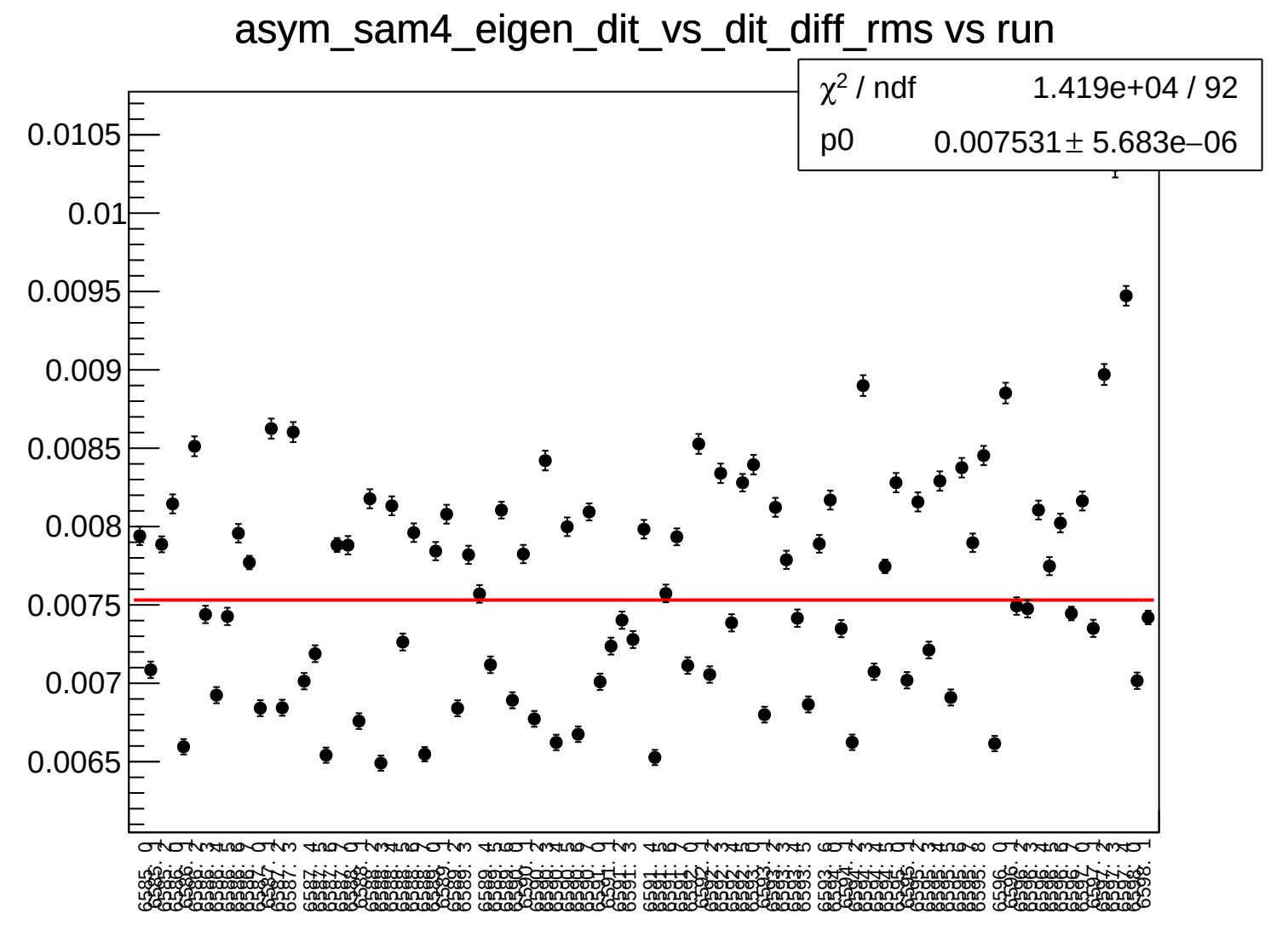

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.04 / 92
p0 0.1631± 0.1474
pull
Entries 93
Mean −90.64
Std Dev 0

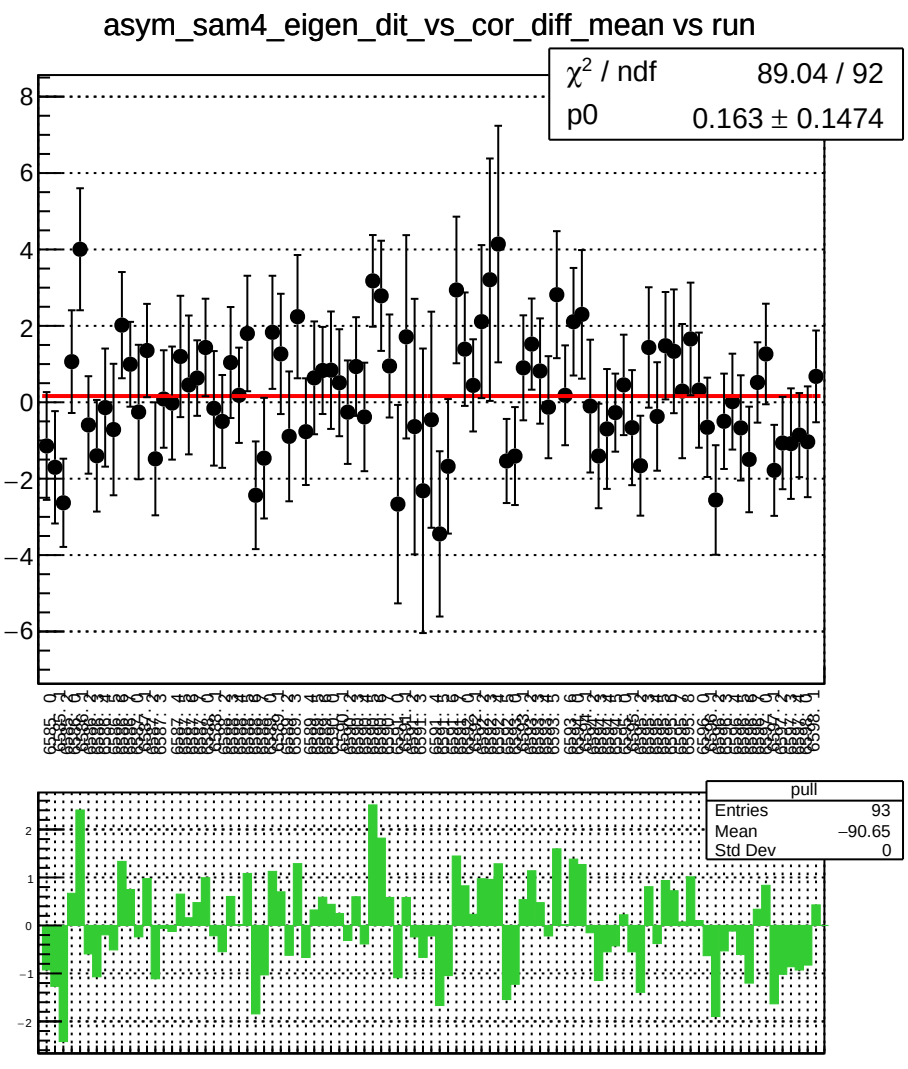

pull1D
Entries 93
Mean 0.01789
Std Dev 0.9783

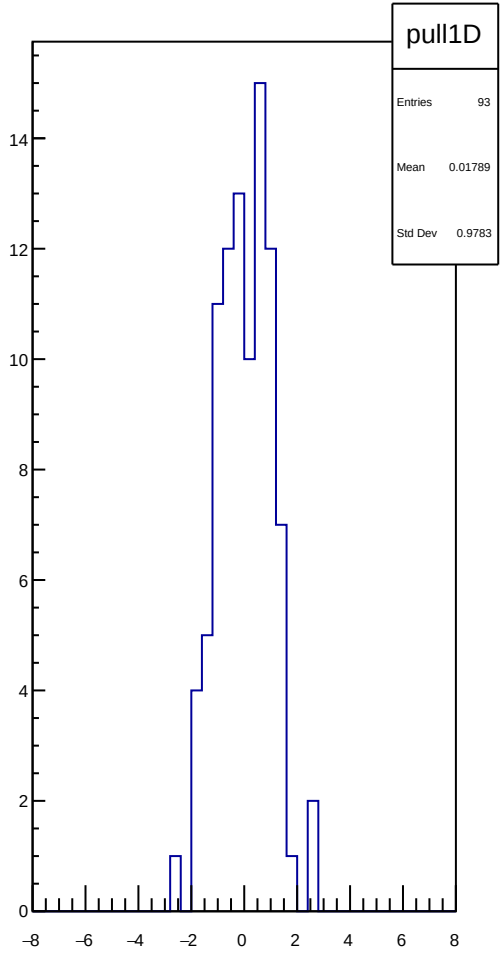

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.842e+04 / 92
p0 136.4 ± 0.1042
350
300
250
200
150
100

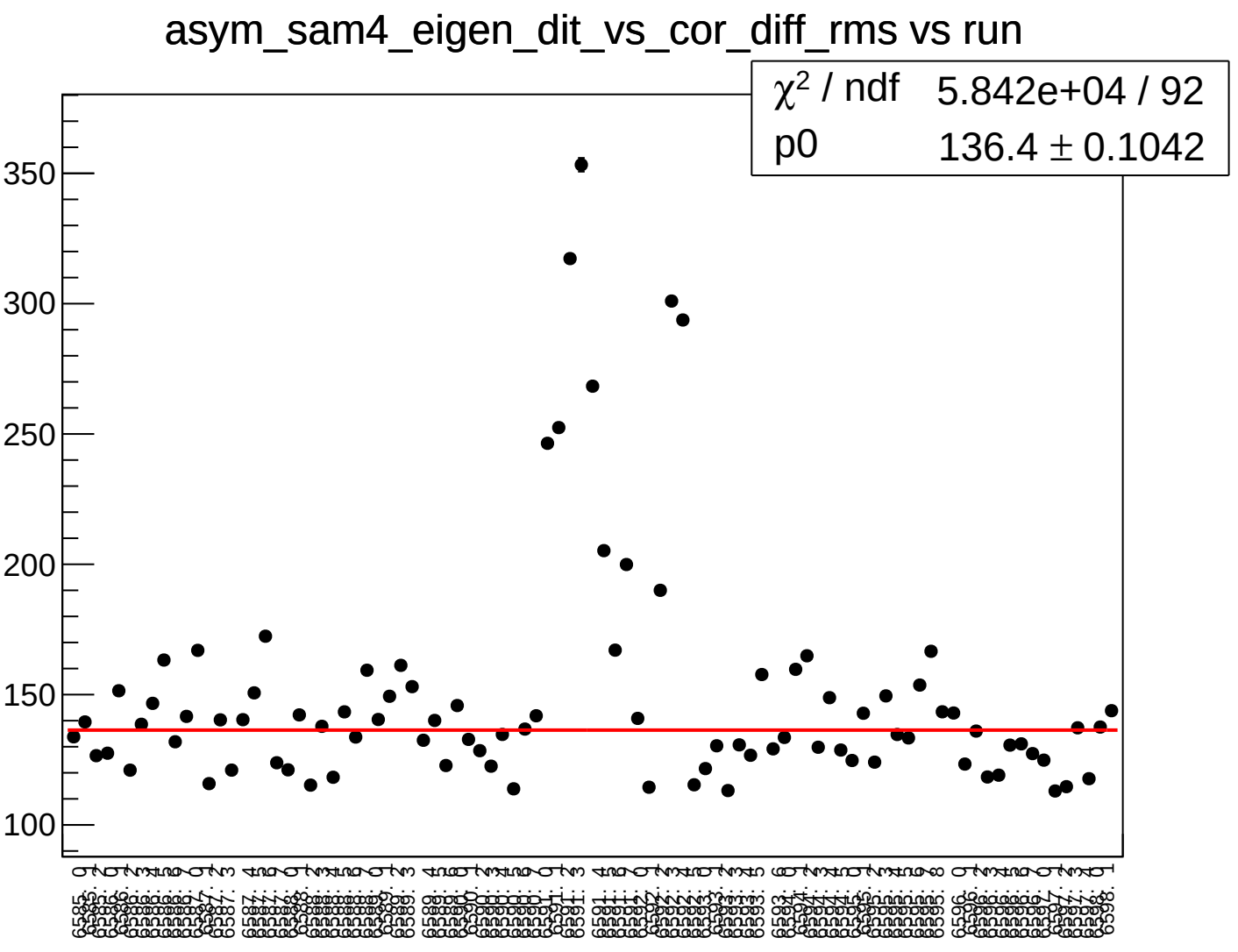

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 116.9 / 92
p0 −2.528e−06 ± 8.037e−06
pull
Entries 93
Mean −1836
Std Dev 0

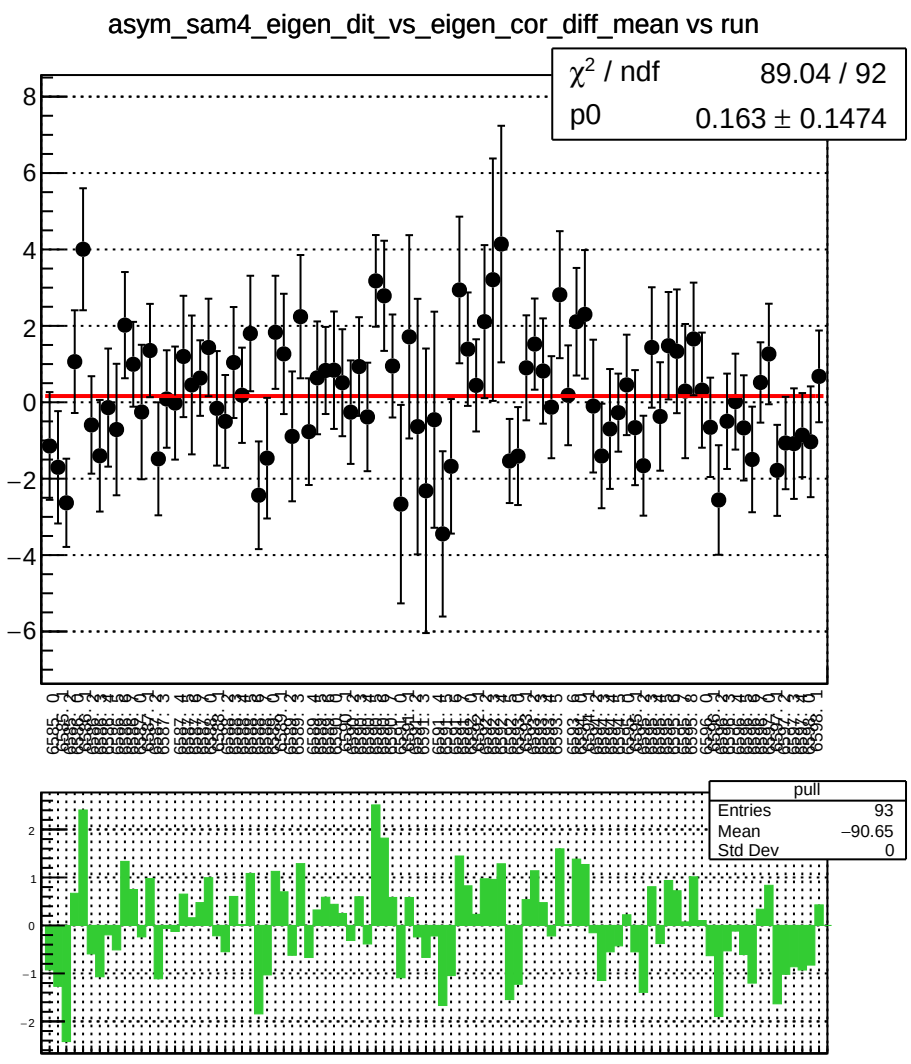

pull1D
Entries 93
Mean 0.0007378
Std Dev 1.121

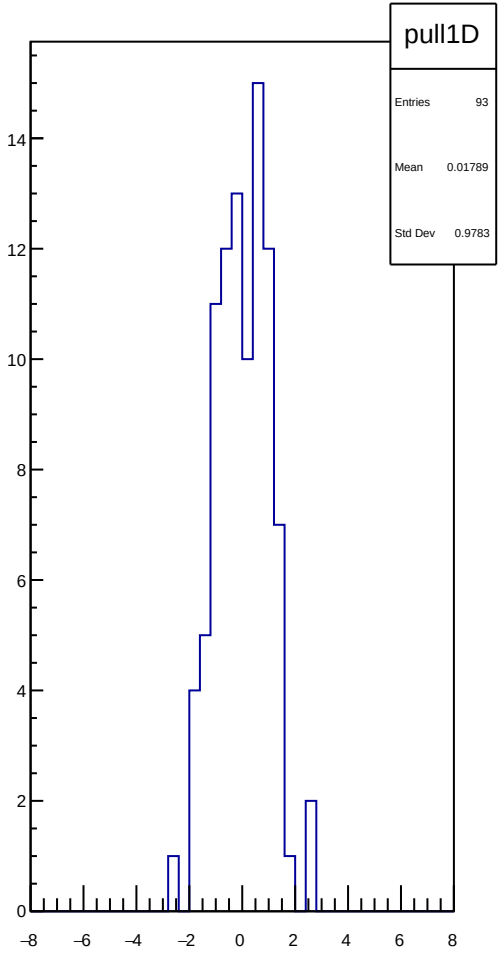

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.419e+04 / 92
p0 0.007531 ± 5.683e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

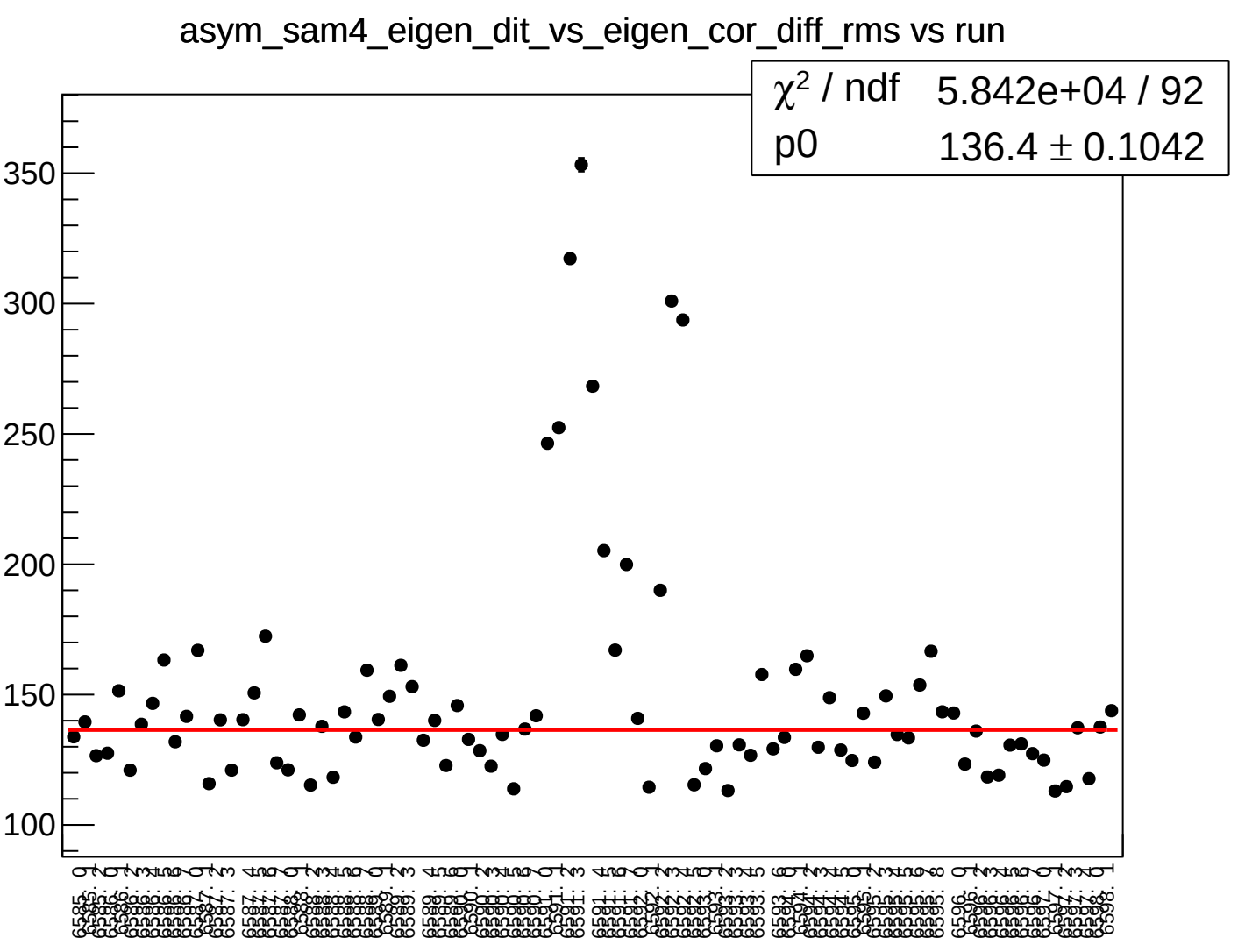

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.04 / 92
p0 0.163 ± 0.1474
pull
Entries 93
Mean −90.65
Std Dev 0

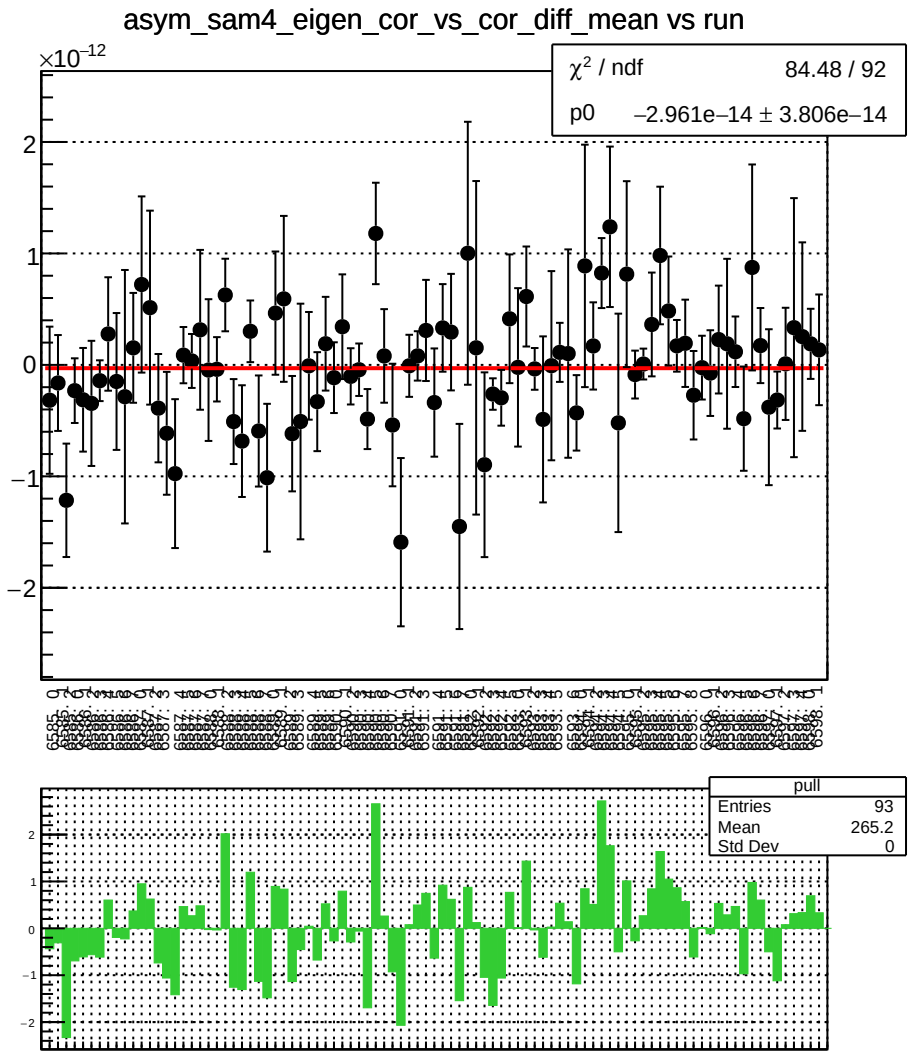

pull1D
Entries 93
Mean 0.01789
Std Dev 0.9783

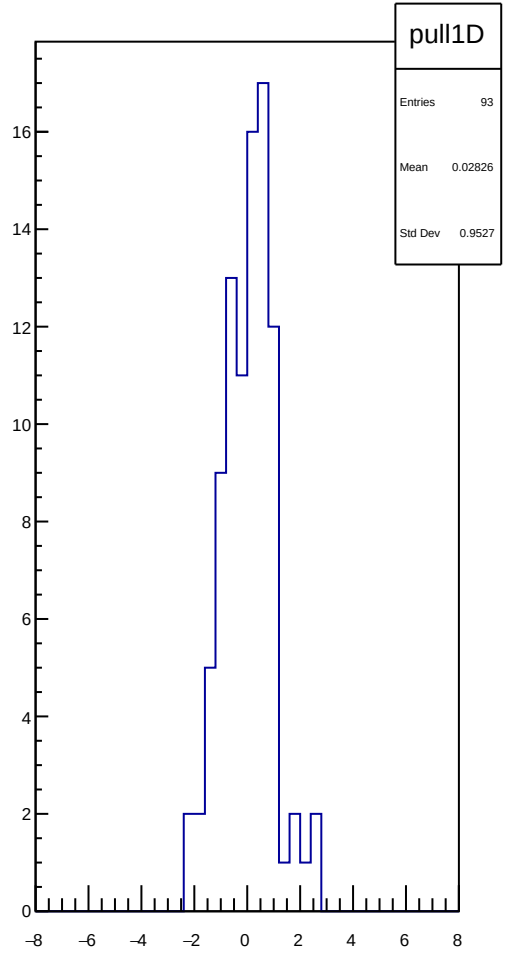

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.842e+04 / 92
p0 136.4 ± 0.1042
350
300
250
200
150
100

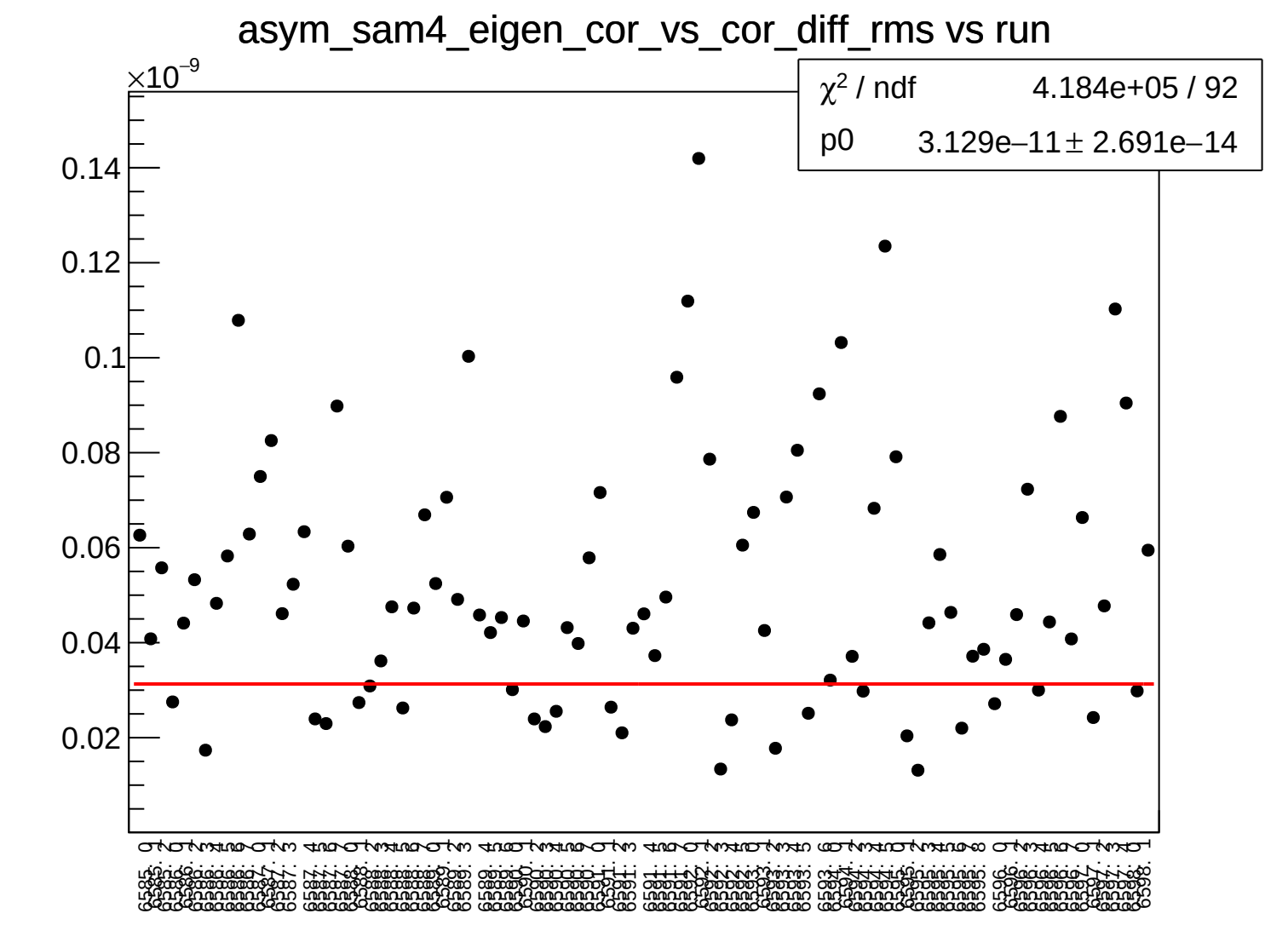

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.04 / 92
p0 0.163 ± 0.1474
pull
Entries 93
Mean −90.65
Std Dev 0

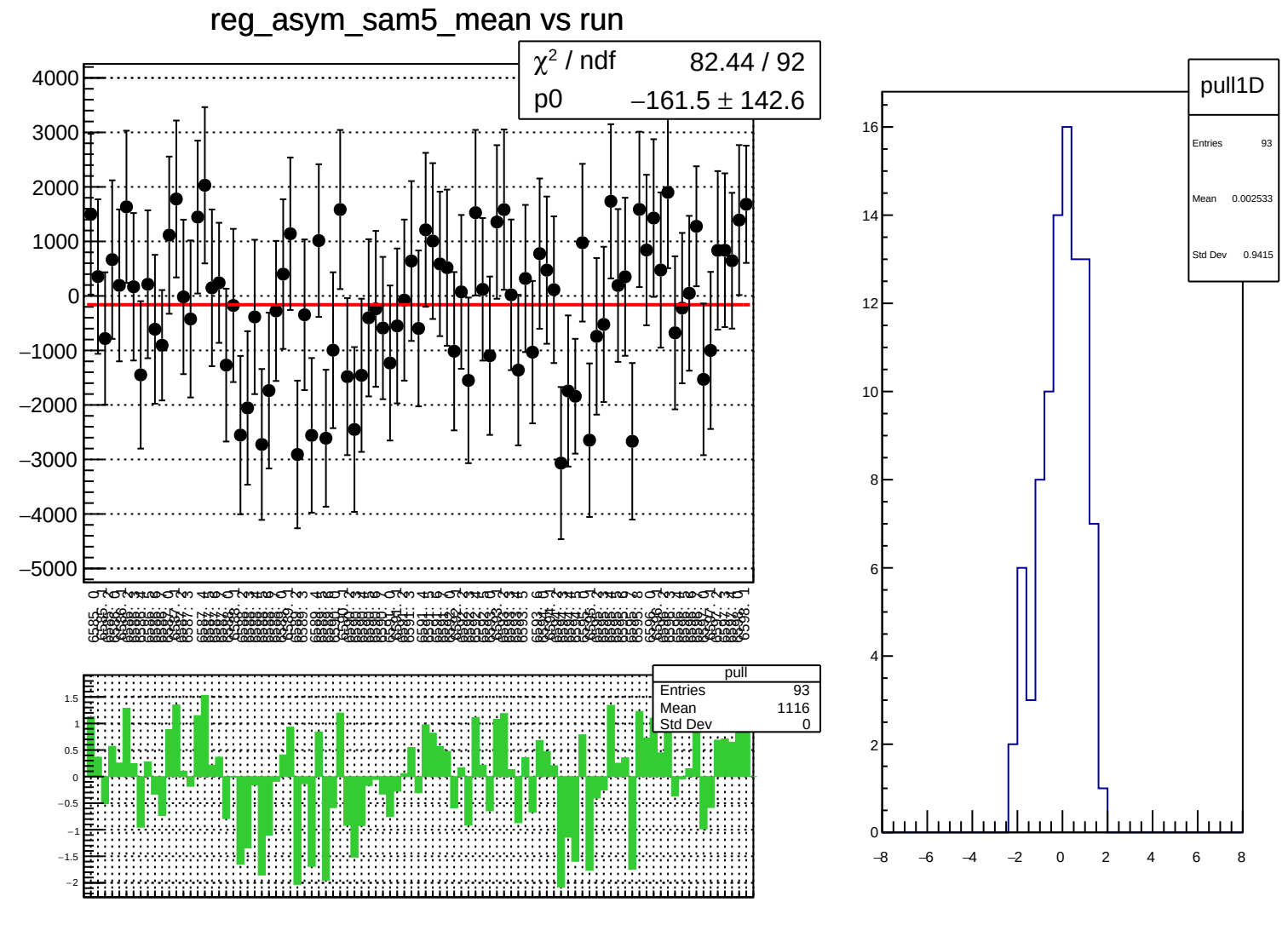

pull1D
Entries 93
Mean 0.01789
Std Dev 0.9783

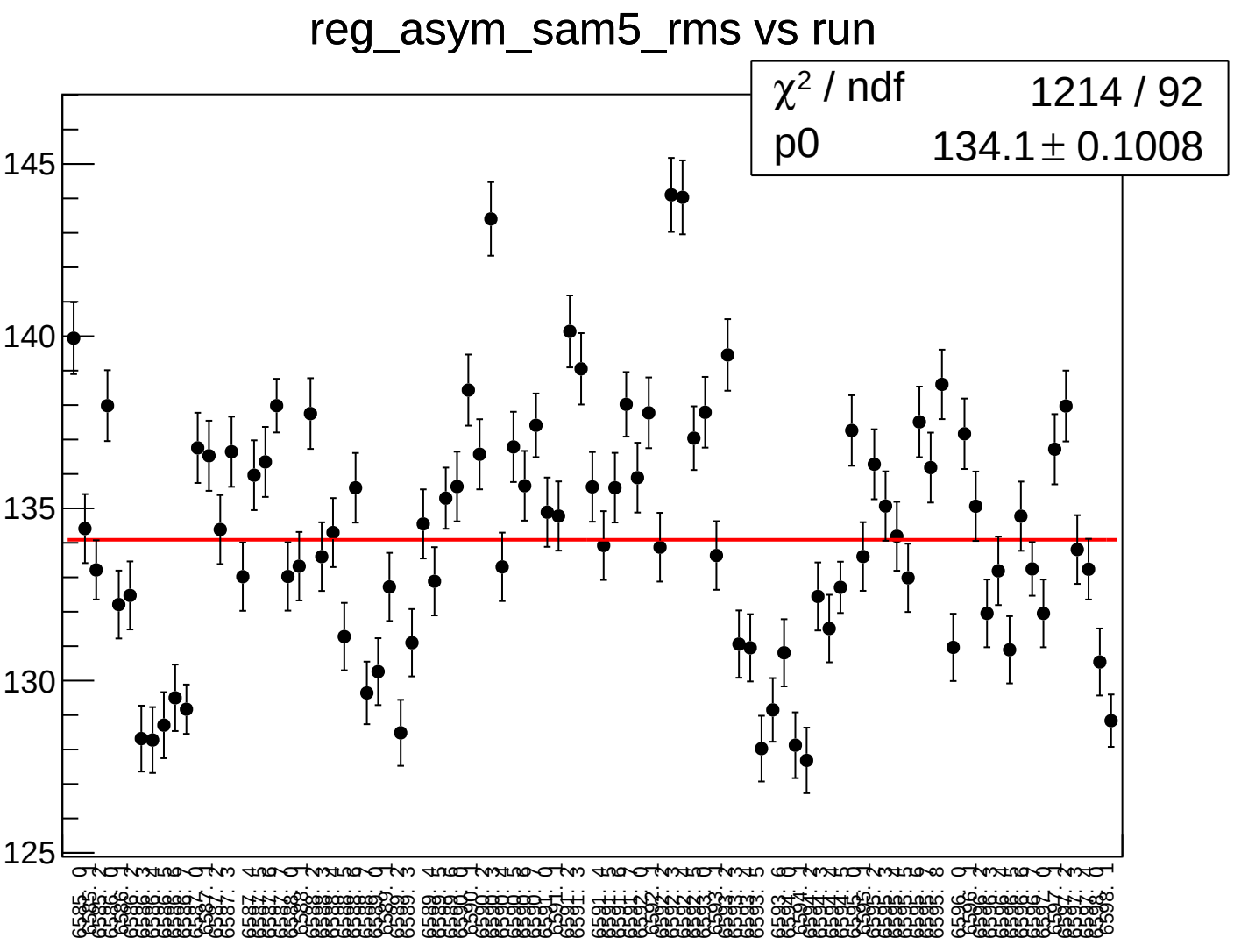

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.842e+04 / 92
p0 136.4 ± 0.1042
350
300
250
200
150
100

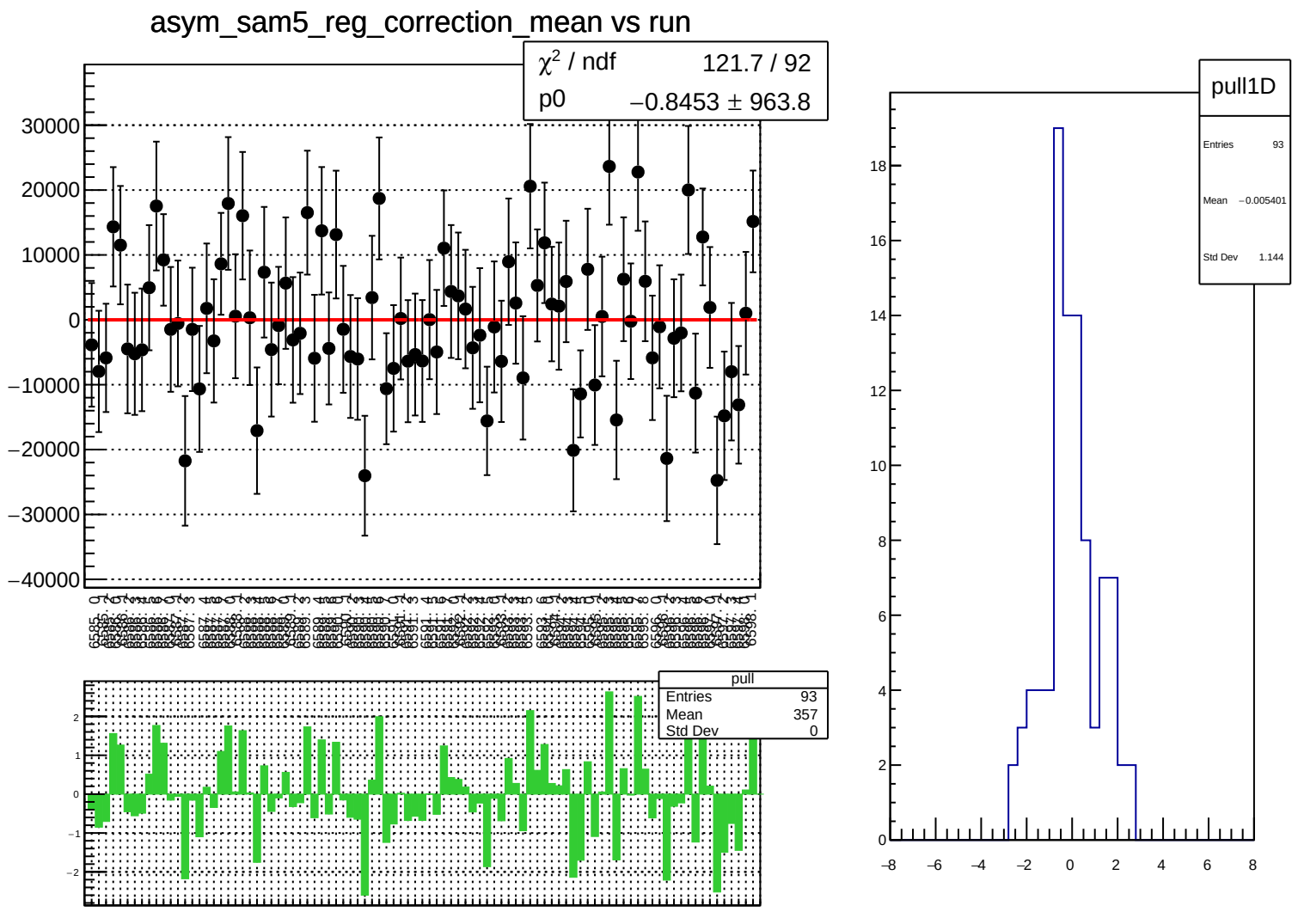

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.48 / 92
p0 −2.961e−14 ± 3.806e−14
pull
Entries 93
Mean 265.2
Std Dev 0

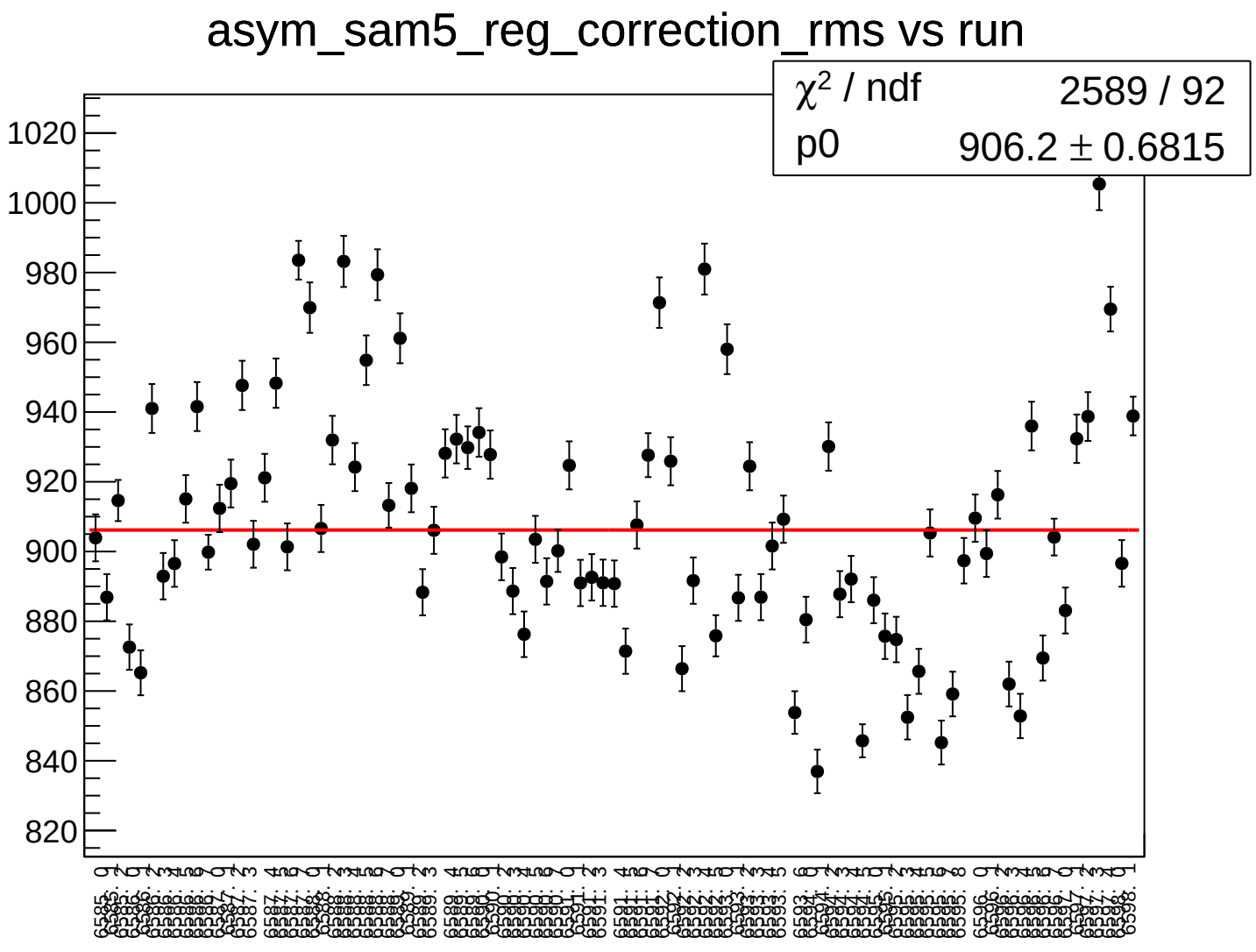

pull1D
Entries 93
Mean 0.02826
Std Dev 0.9527

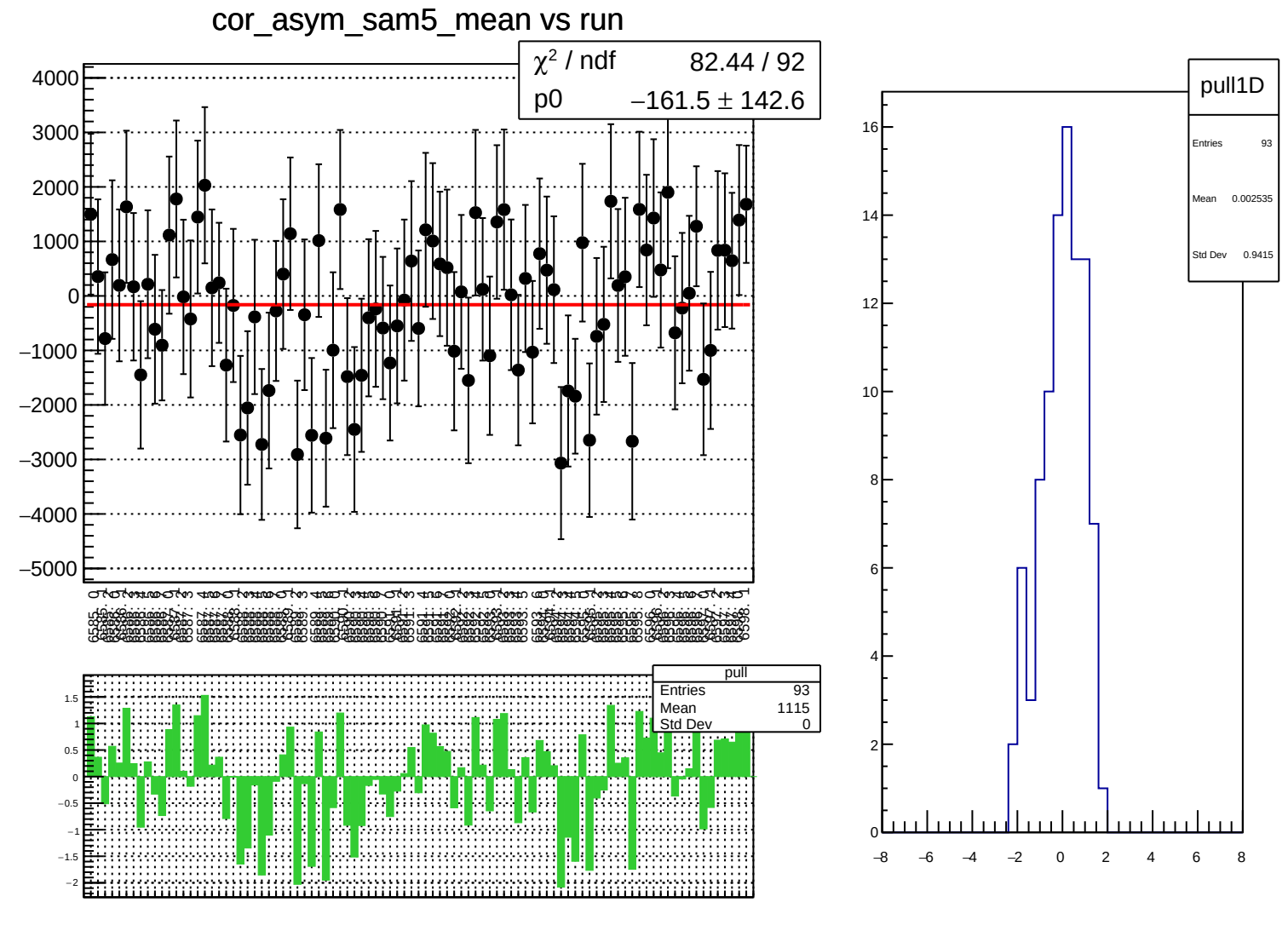

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.184e+05 / 92
p0 3.129e−11 ± 2.691e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

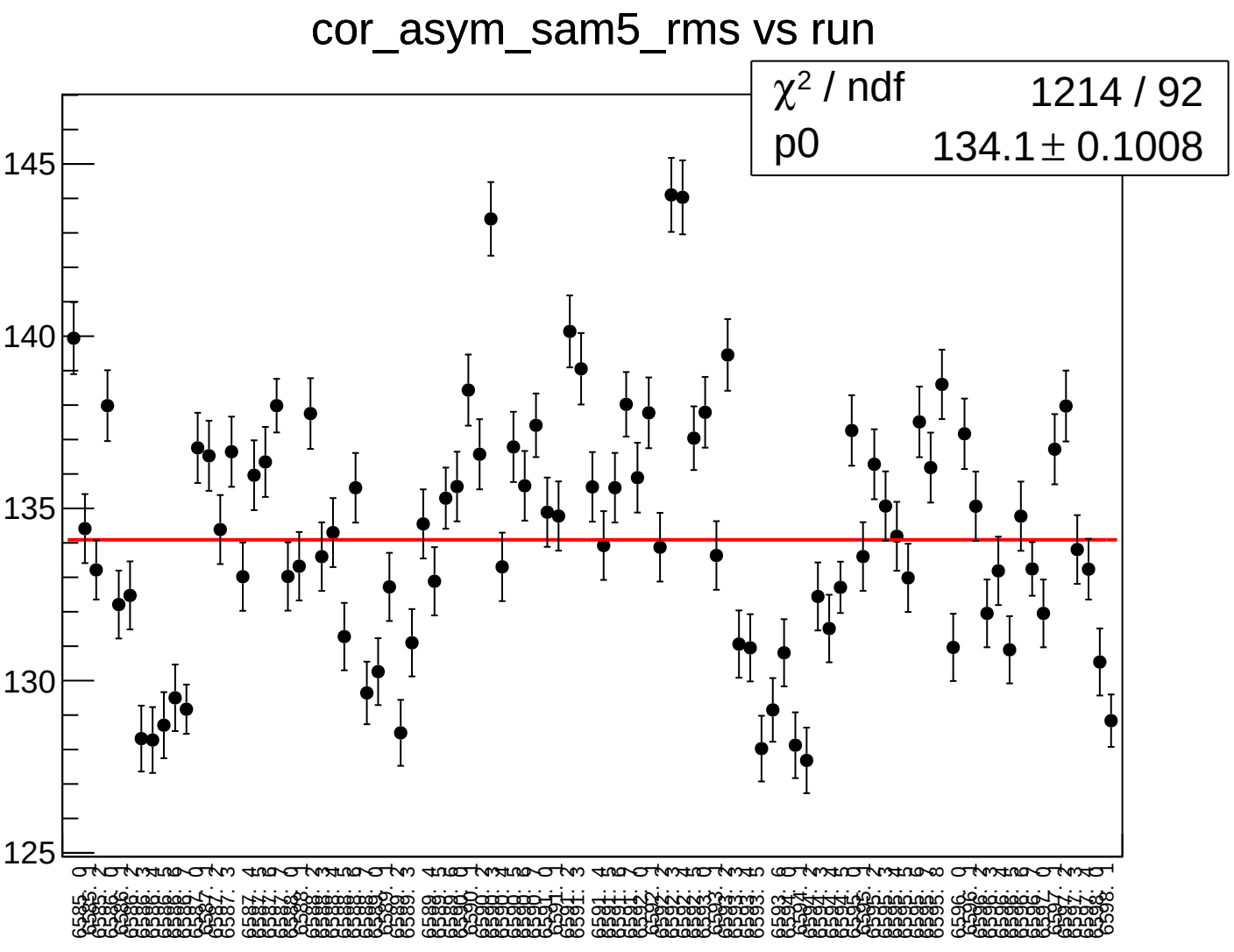

reg_asym_sam5_mean vs run
χ² / ndf 82.44 / 92
p0 −161.5 ± 142.6
pull
Entries 93
Mean 1116
Std Dev 0
pull1D
Entries 93
Mean 0.002533
Std Dev 0.9415

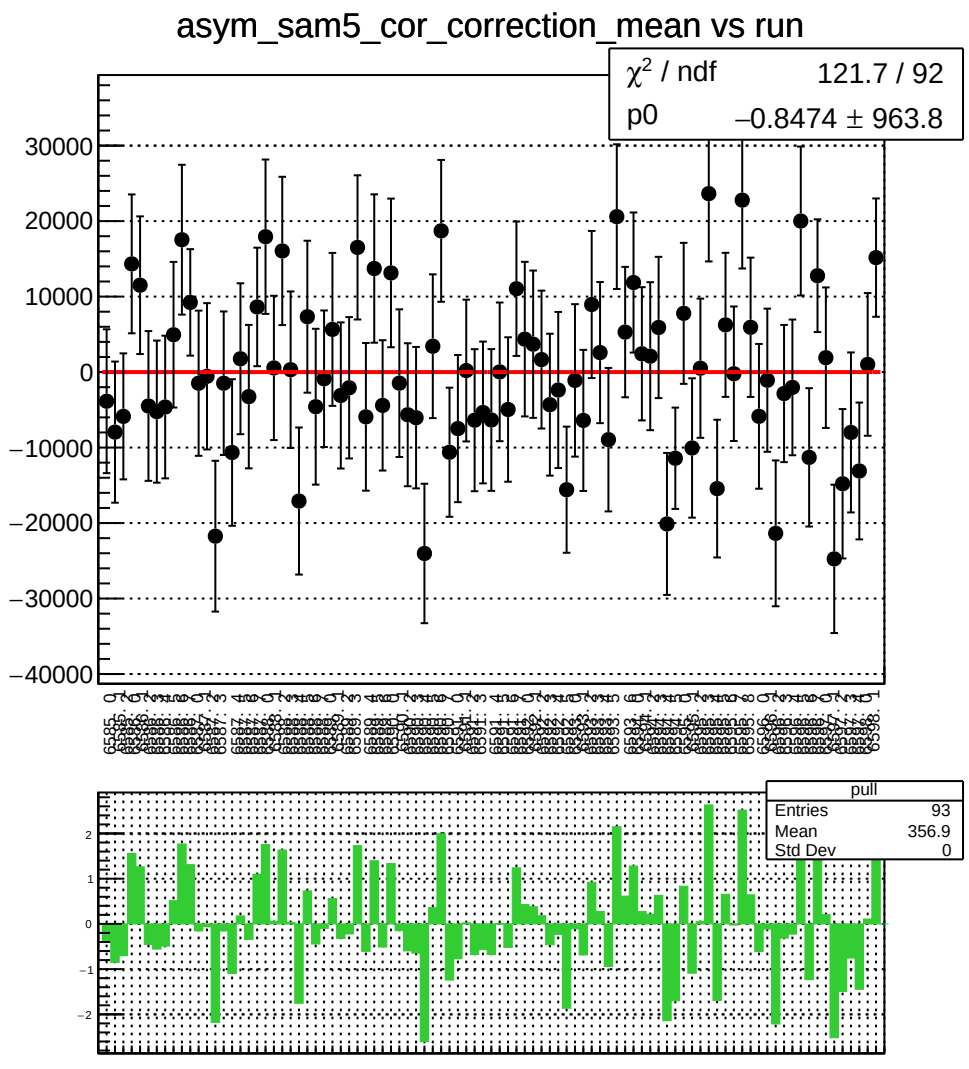

reg_asym_sam5_rms vs run
χ² / ndf 1214 / 92
p0 134.1 ± 0.1008
145
140
135
130
125

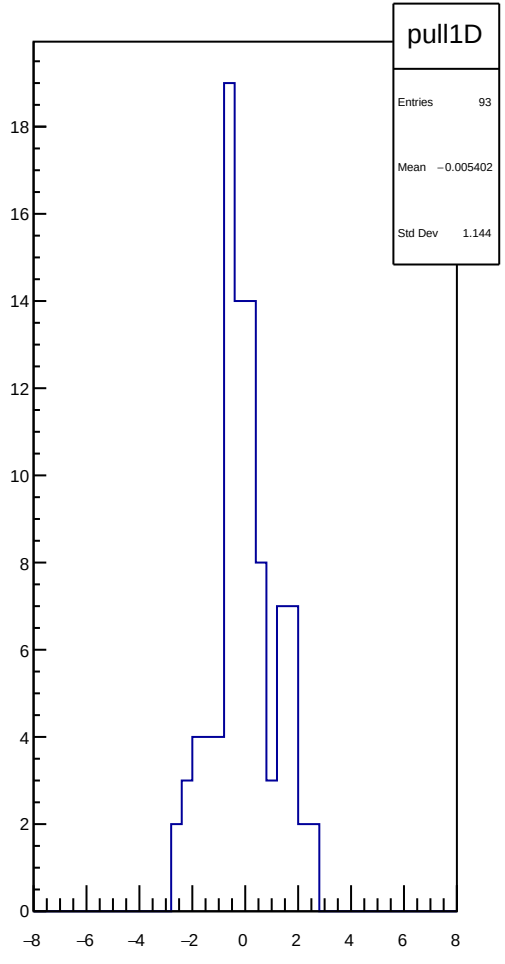

asym_sam5_reg_correction_mean vs run
χ² / ndf 121.7 / 92
p0 −0.8453 ± 963.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 357
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005401
Std Dev 1.144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

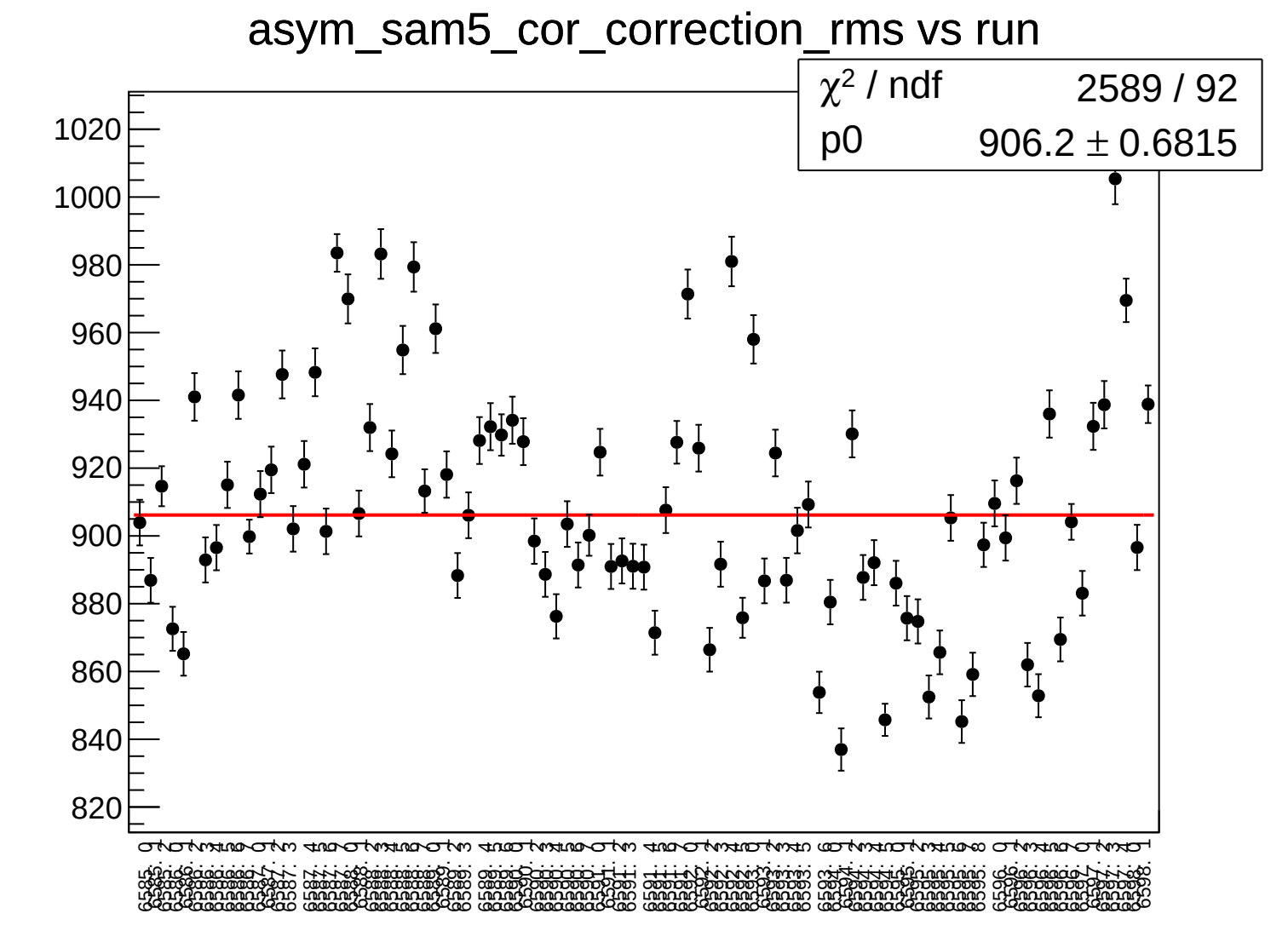

asym_sam5_reg_correction_rms vs run
χ² / ndf 2589 / 92
p0 906.2 ± 0.6815
1020
1000
980
960
940
920
900
880
860
840
820

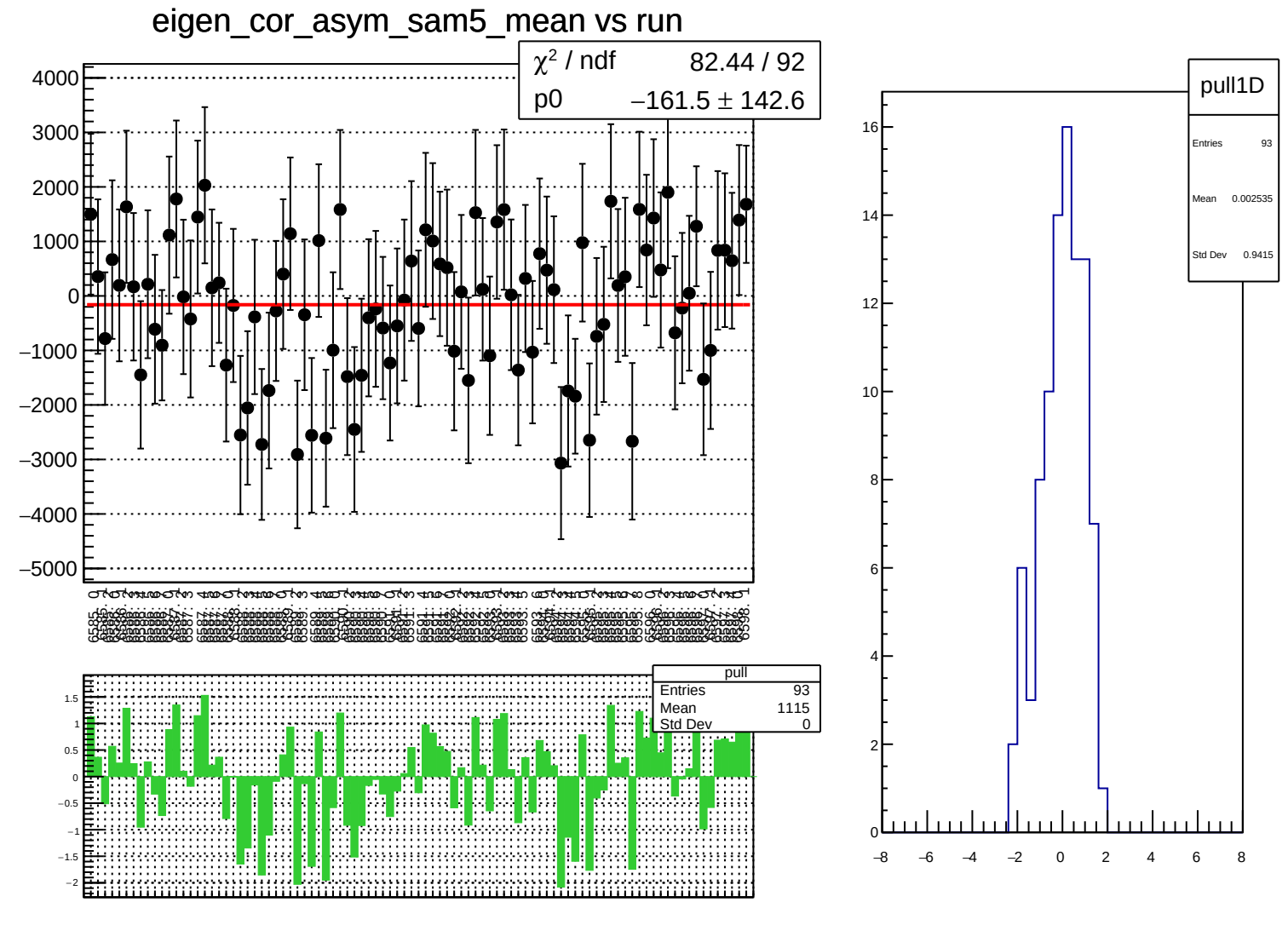

cor_asym_sam5_mean vs run
χ² / ndf 82.44 / 92
p0 −161.5 ± 142.6
pull
Entries 93
Mean 1115
Std Dev 0
pull1D
Entries 93
Mean 0.002535
Std Dev 0.9415

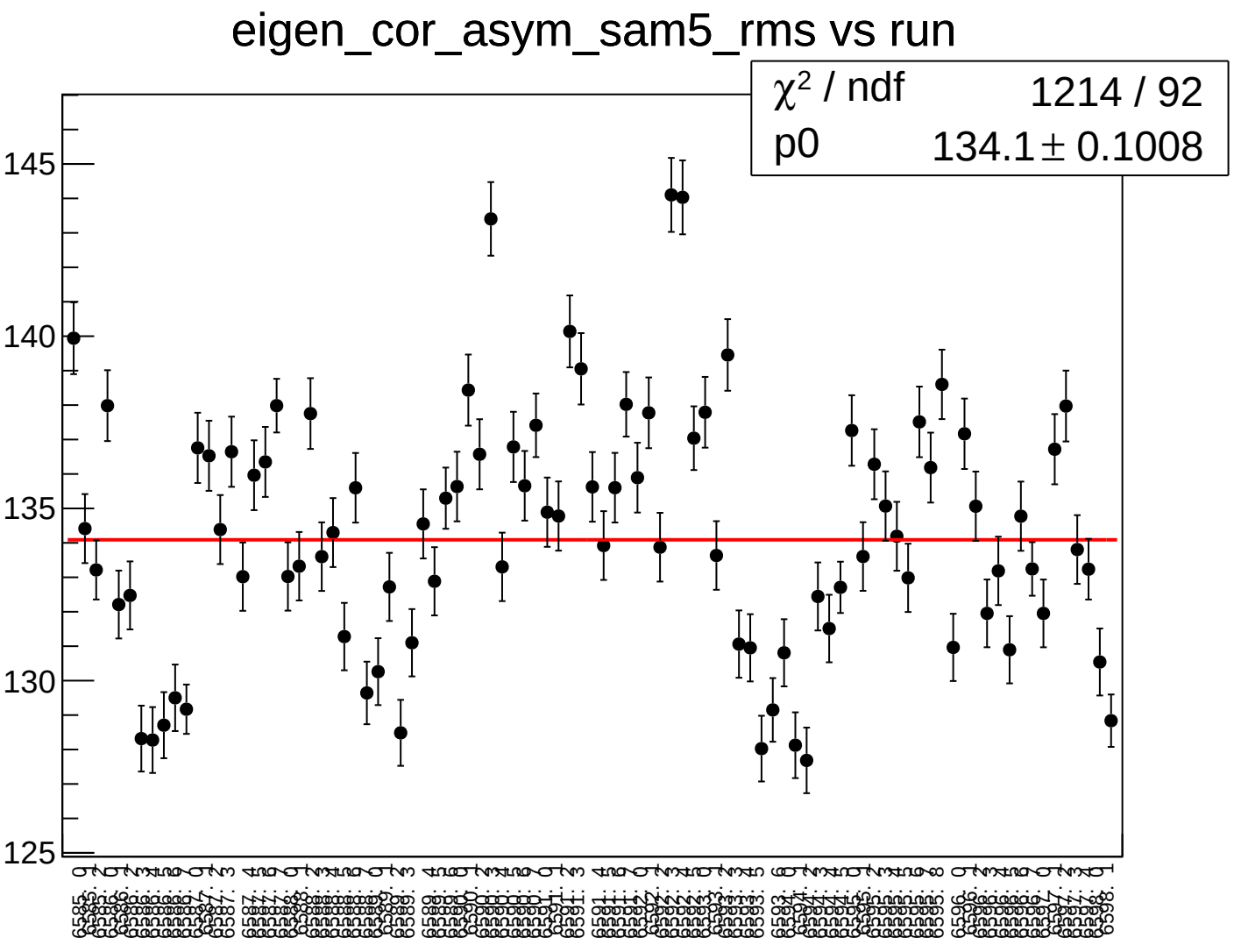

cor_asym_sam5_rms vs run
χ² / ndf 1214 / 92
p0 134.1 ± 0.1008
145
140
135
130
125

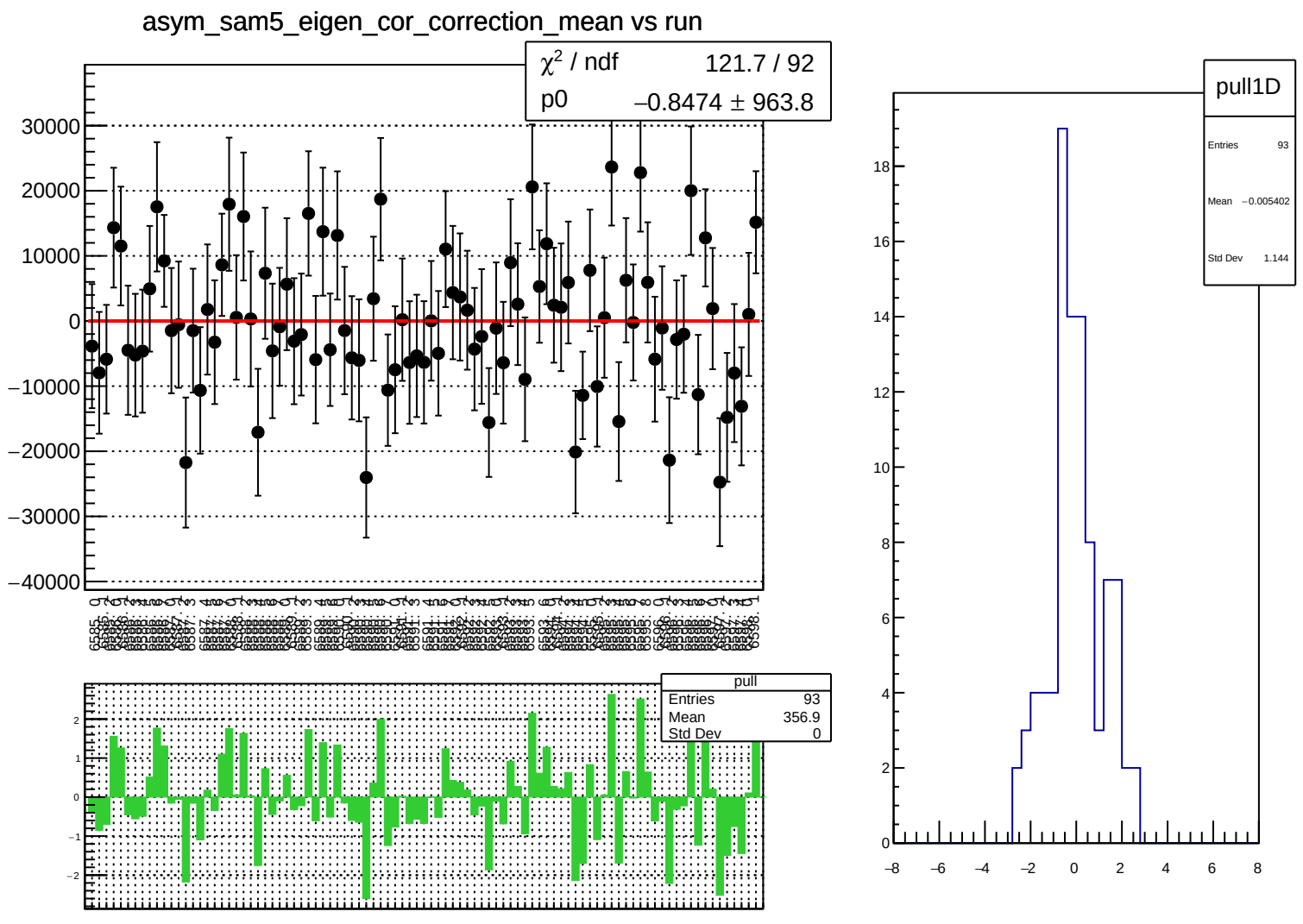

asym_sam5_cor_correction_mean vs run
χ² / ndf 121.7 / 92
p0 −0.8474 ± 963.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 356.9
Std Dev 0
2
1
0
−1
−2

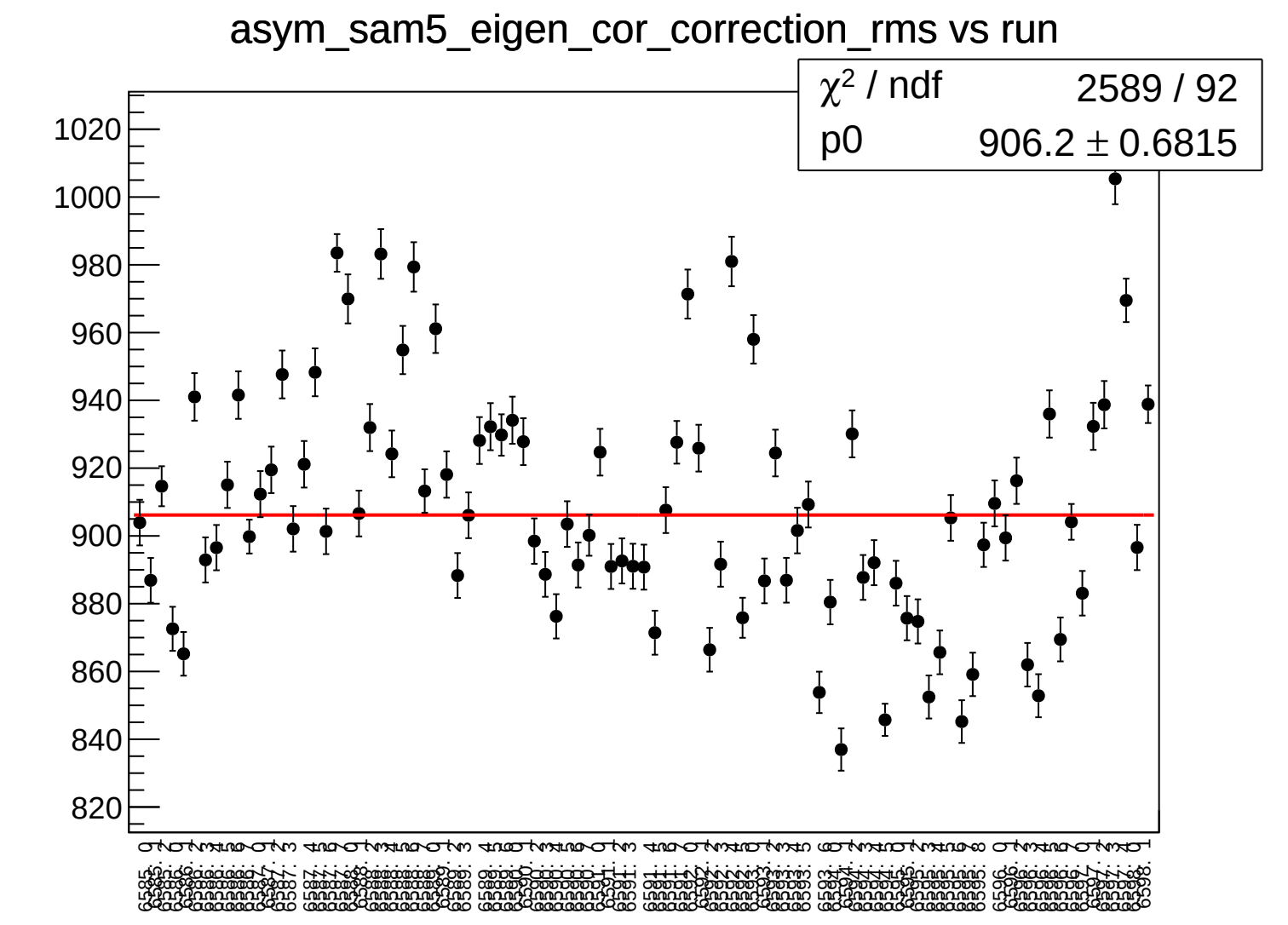

pull1D
Entries 93
Mean −0.005402
Std Dev 1.144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

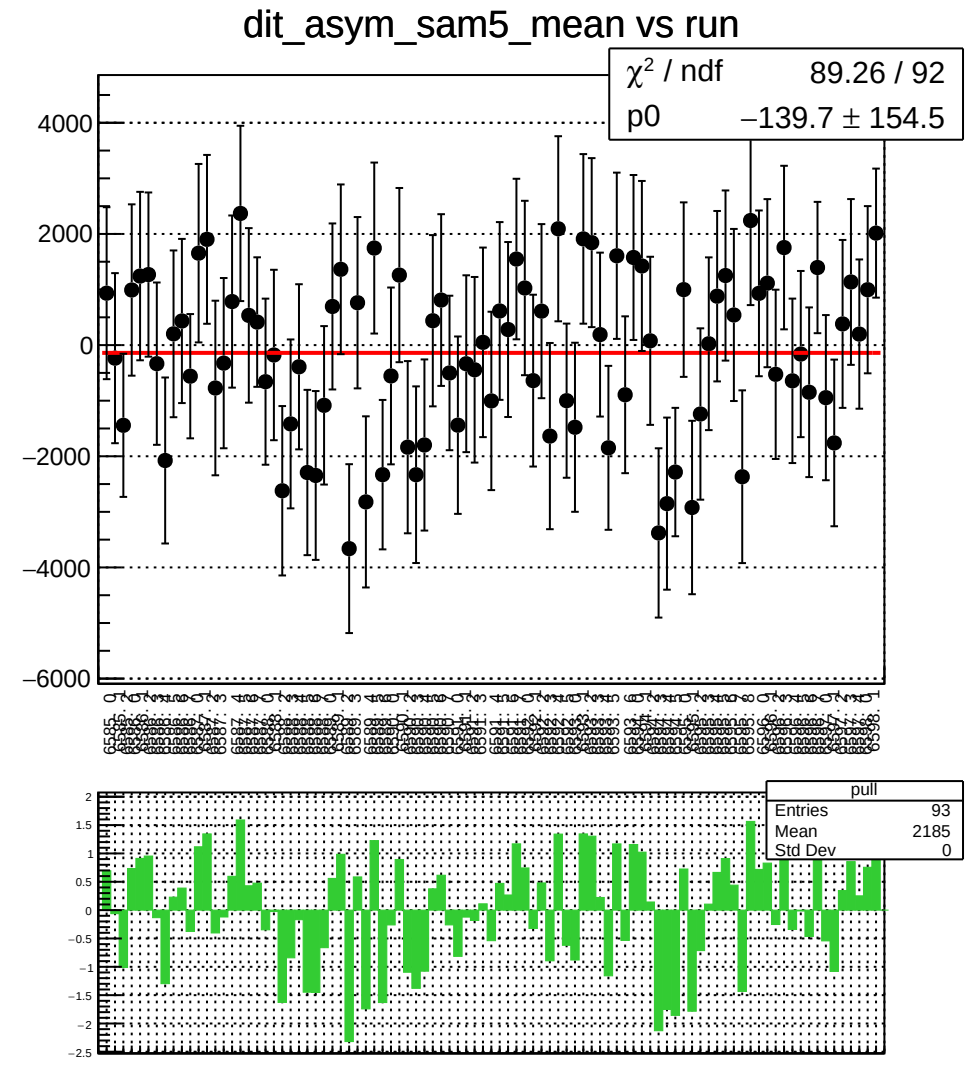

asym_sam5_cor_correction_rms vs run
χ² / ndf 2589 / 92
p0 906.2 ± 0.6815
1020
1000
980
960
940
920
900
880
860
840
820

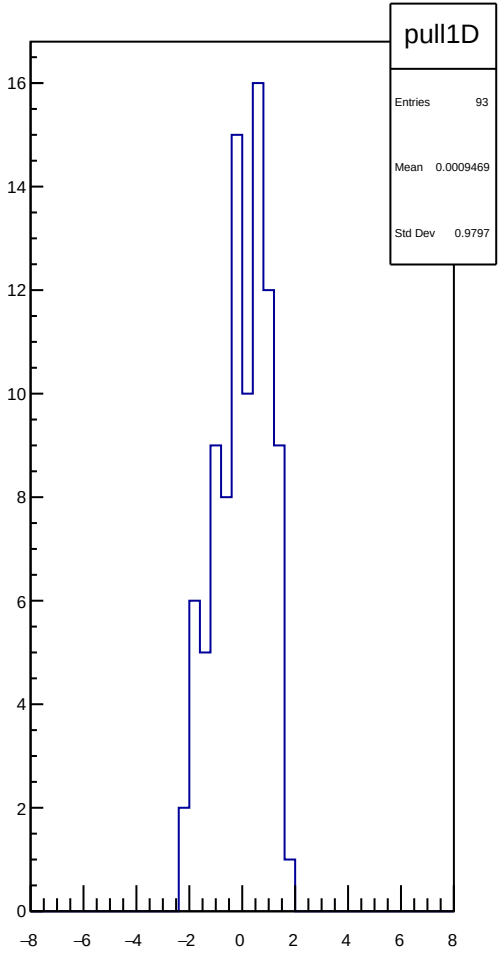

eigen_cor_asym_sam5_mean vs run
χ² / ndf 82.44 / 92
p0 −161.5 ± 142.6
pull
Entries 93
Mean 1115
Std Dev 0
pull1D
Entries 93
Mean 0.002535
Std Dev 0.9415

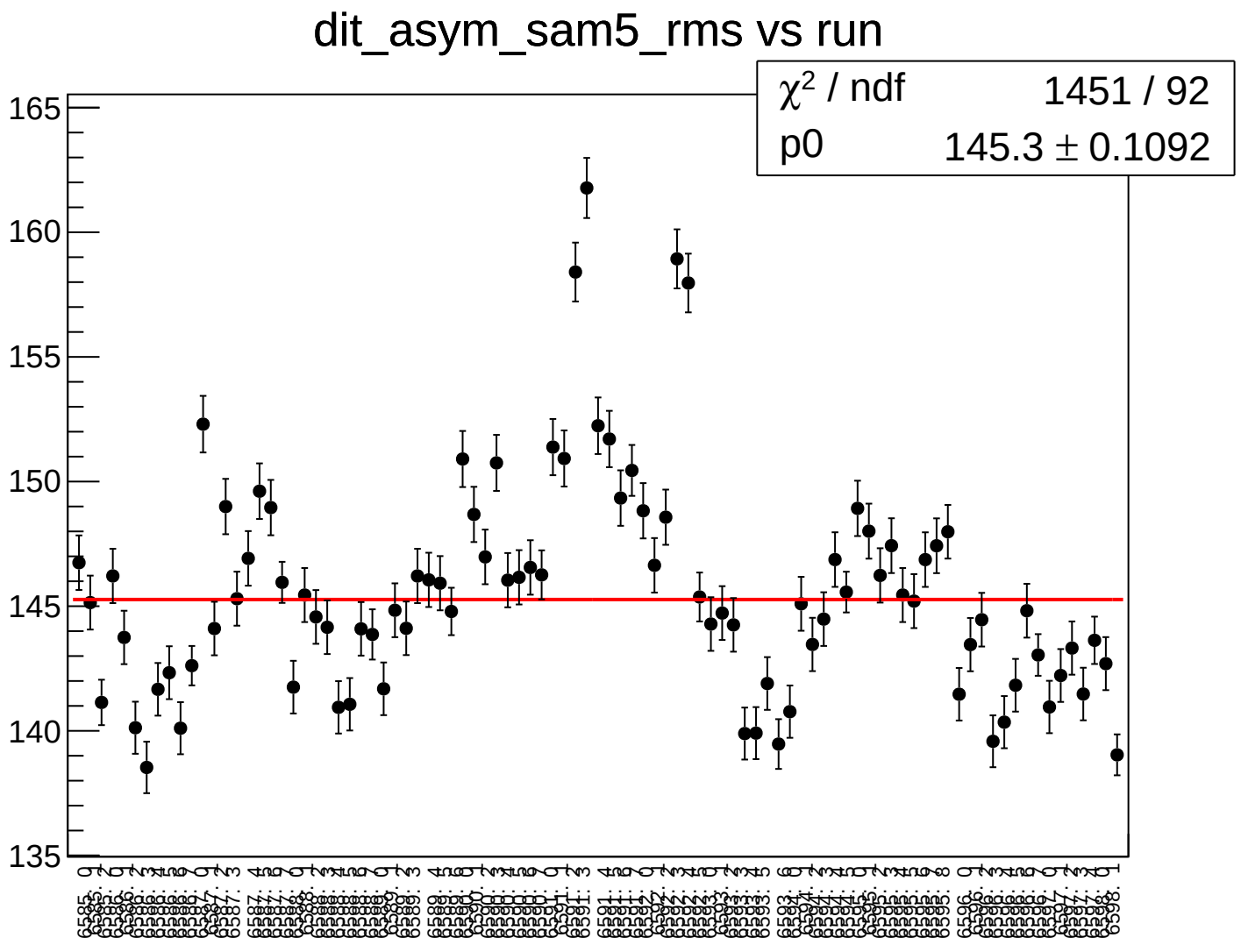

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1214 / 92
p0 134.1 ± 0.1008
145
140
135
130
125

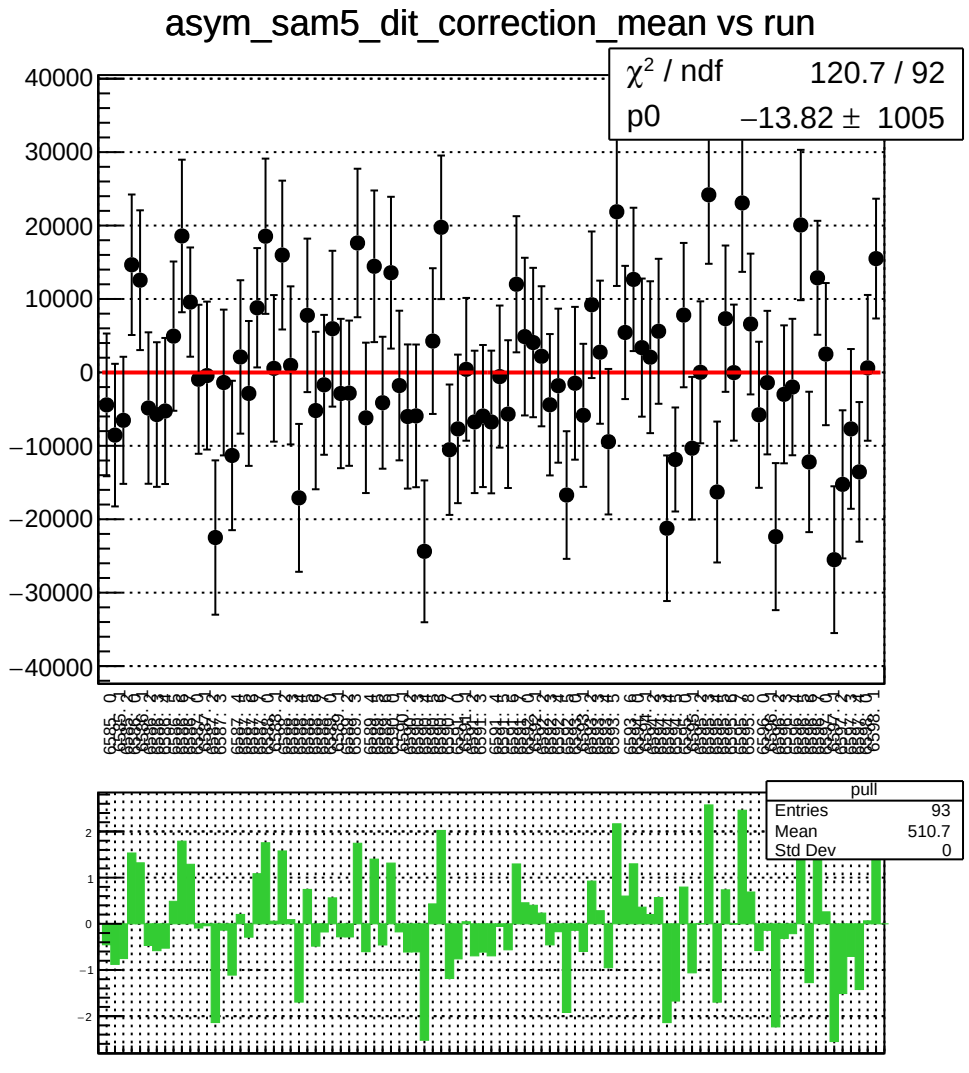

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 121.7 / 92
p0 −0.8474 ± 963.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 356.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005402
Std Dev 1.144
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

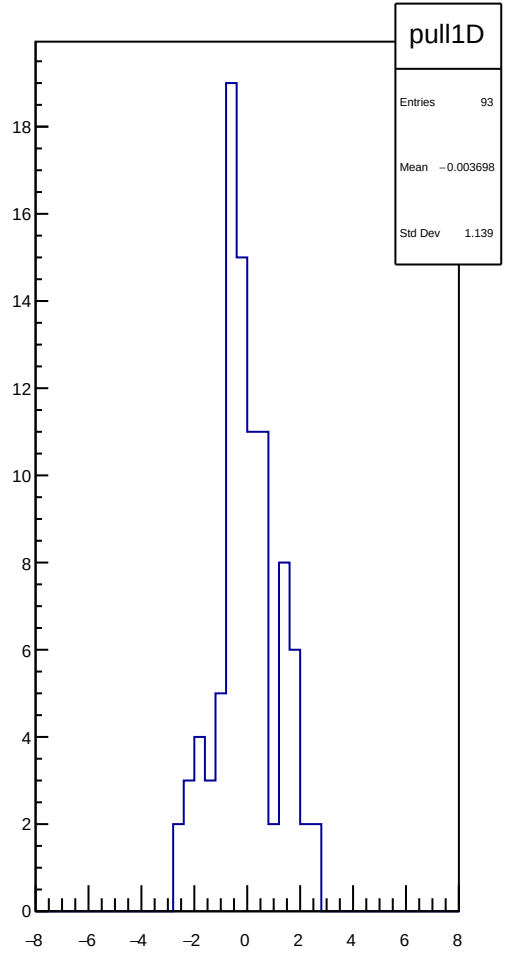

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 2589 / 92
p0 906.2 ± 0.6815
1020
1000
980
960
940
920
900
880
860
840
820

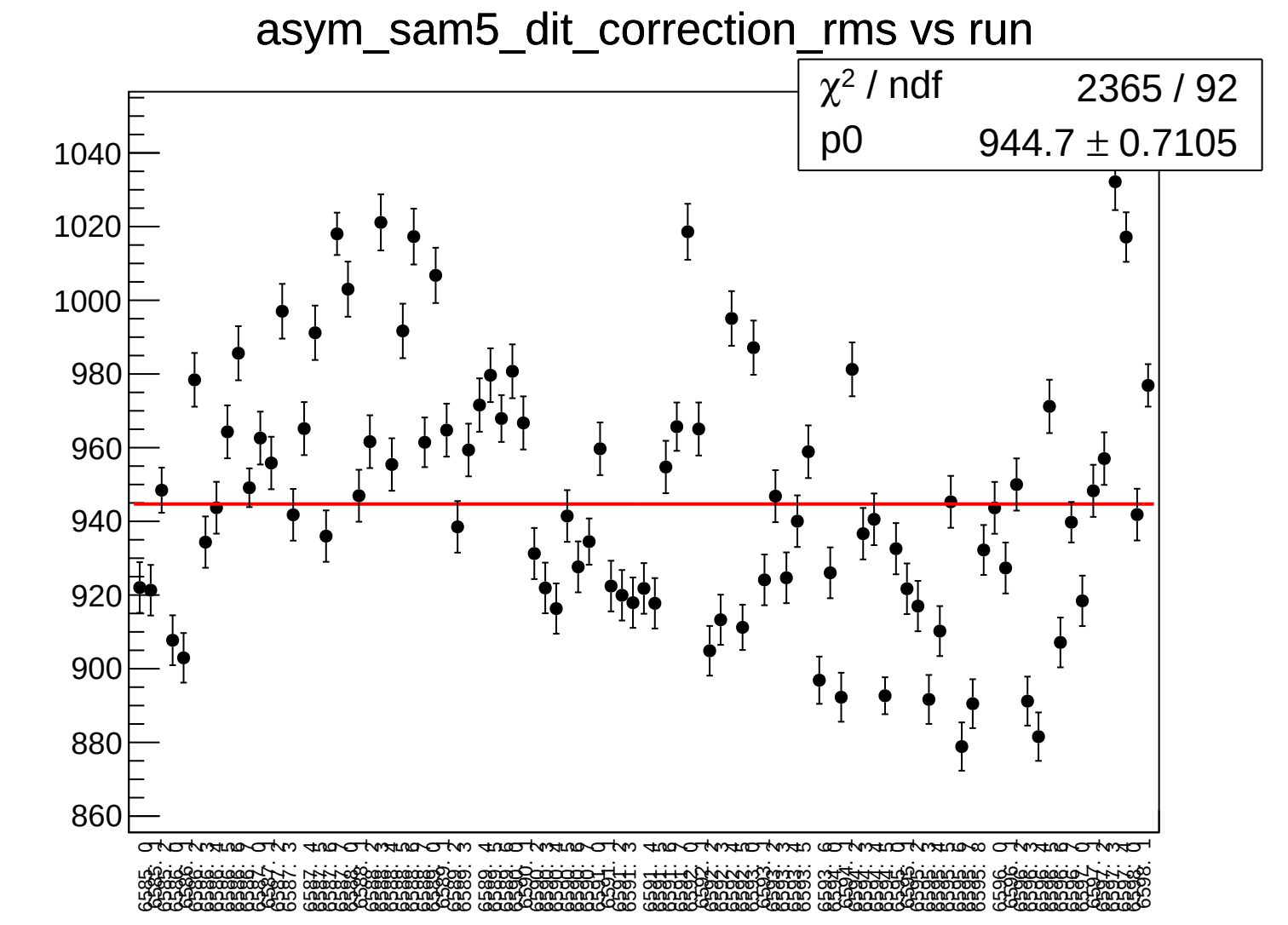

dit_asym_sam5_mean vs run
χ² / ndf 89.26 / 92
p0 −139.7 ± 154.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 2185
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

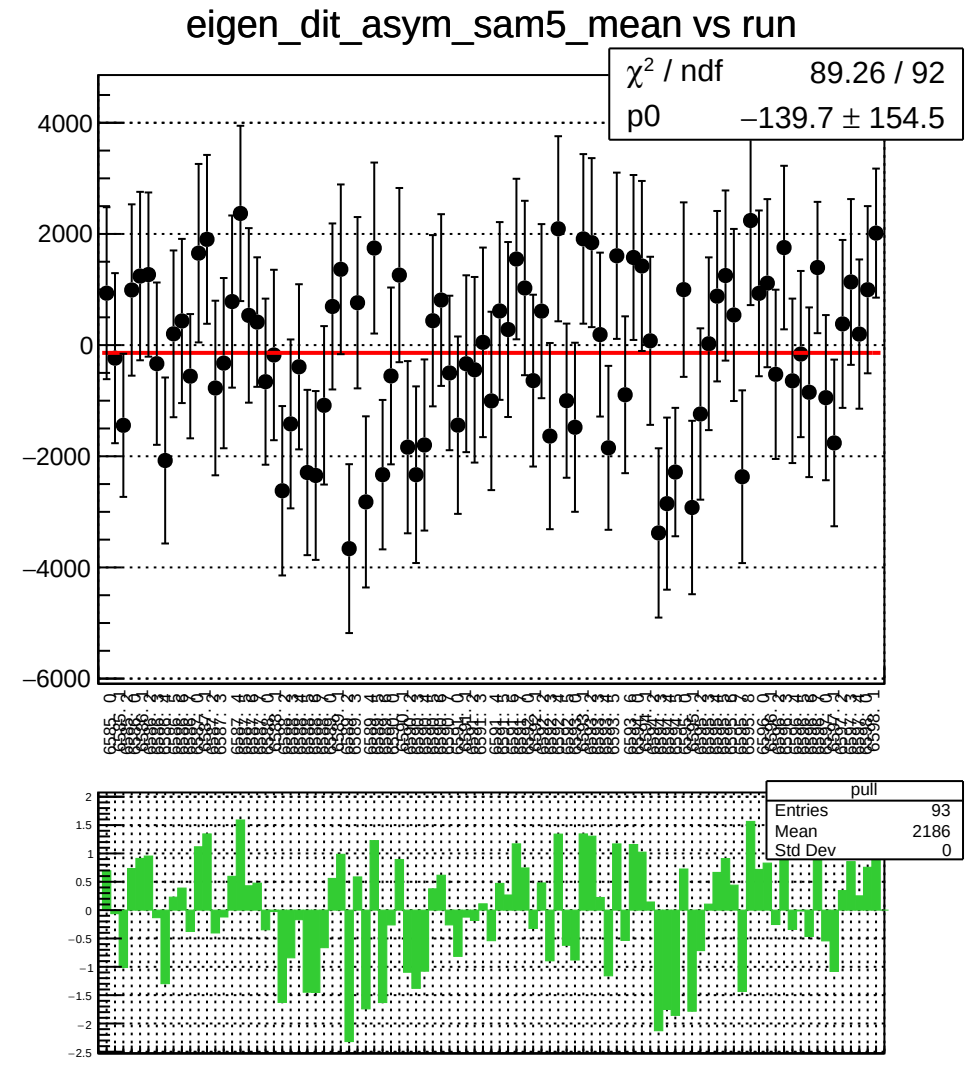

pull1D
Entries 93
Mean 0.0009469
Std Dev 0.9797
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

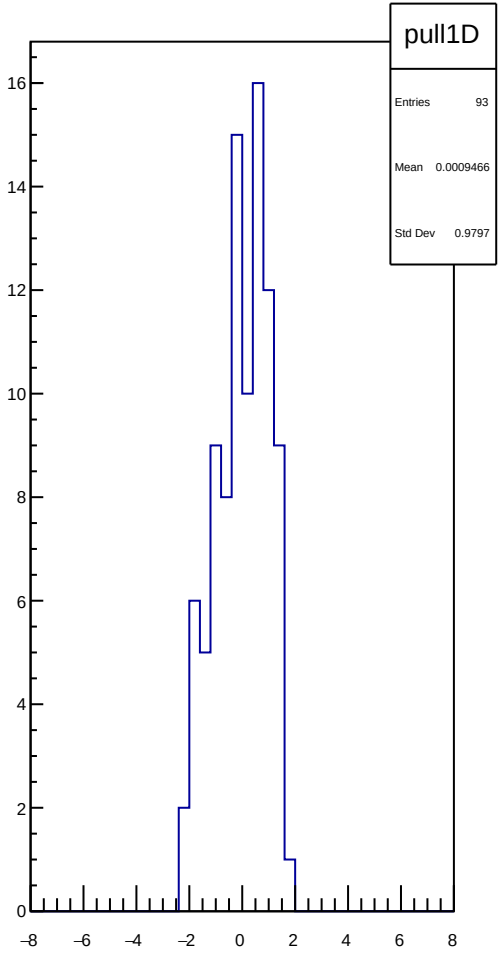

dit_asym_sam5_rms vs run
χ² / ndf 1451 / 92
p0 145.3 ± 0.1092
165
160
155
150
145
140
135

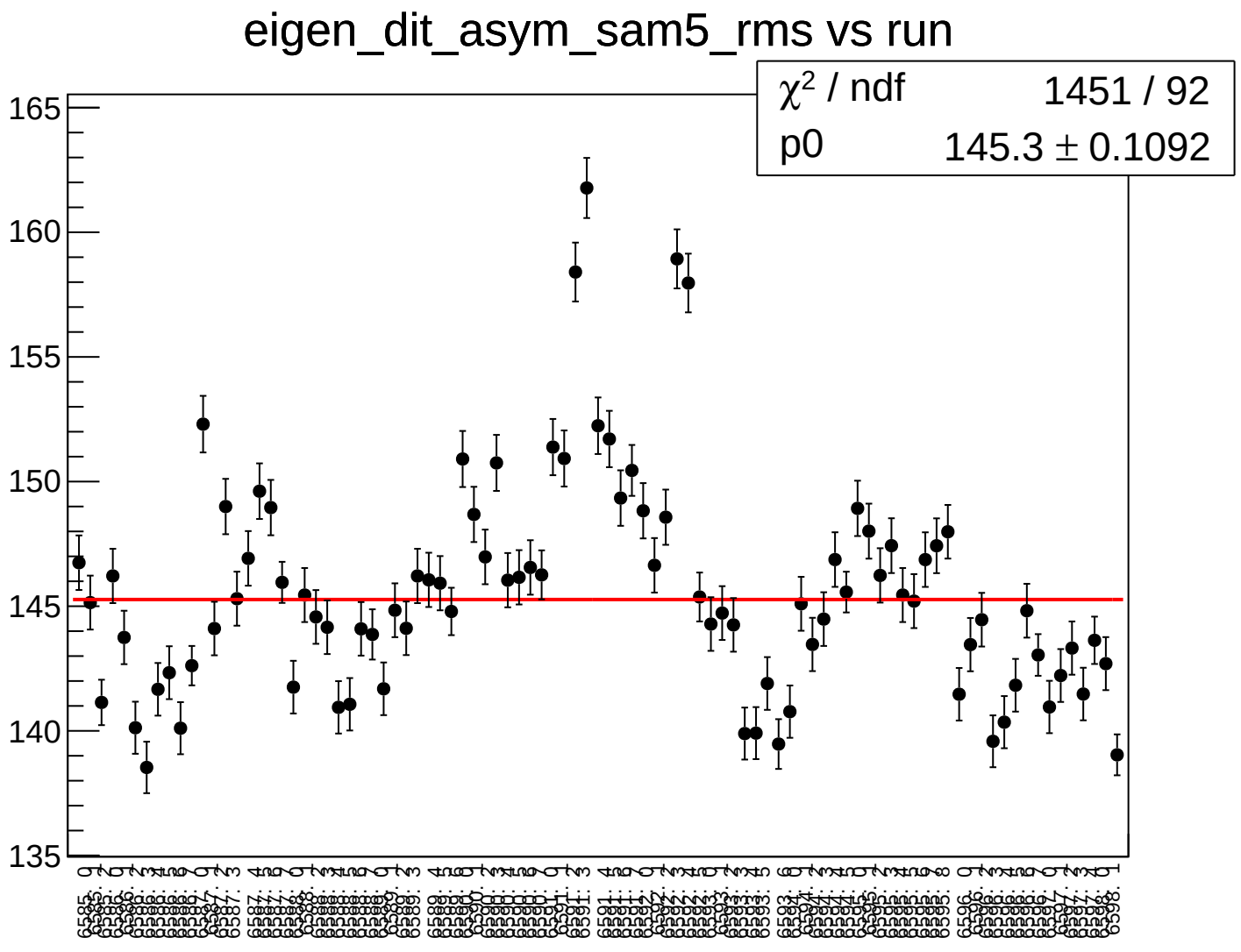

asym_sam5_dit_correction_mean vs run
χ² / ndf 120.7 / 92
p0 −13.82 ± 1005
pull
Entries 93
Mean 510.7
Std Dev 0

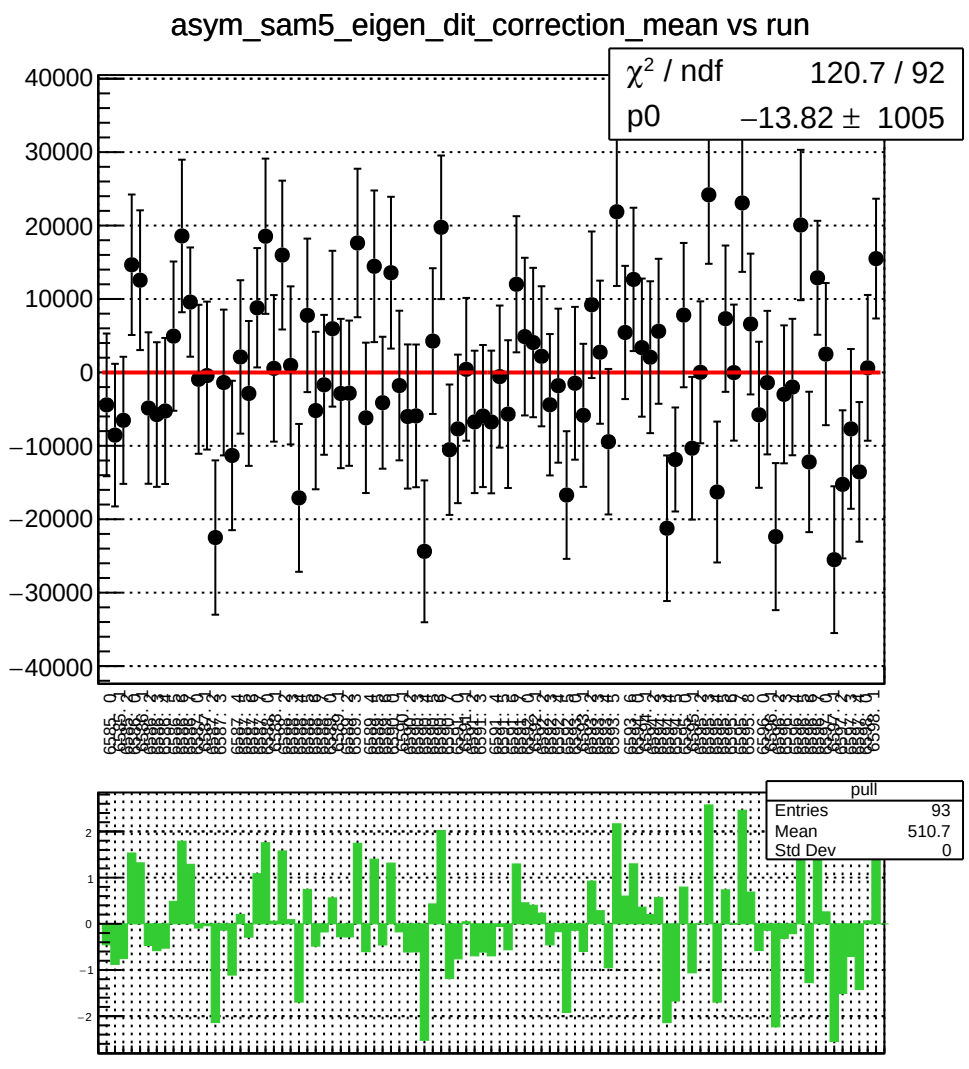

pull1D
Entries 93
Mean −0.003698
Std Dev 1.139

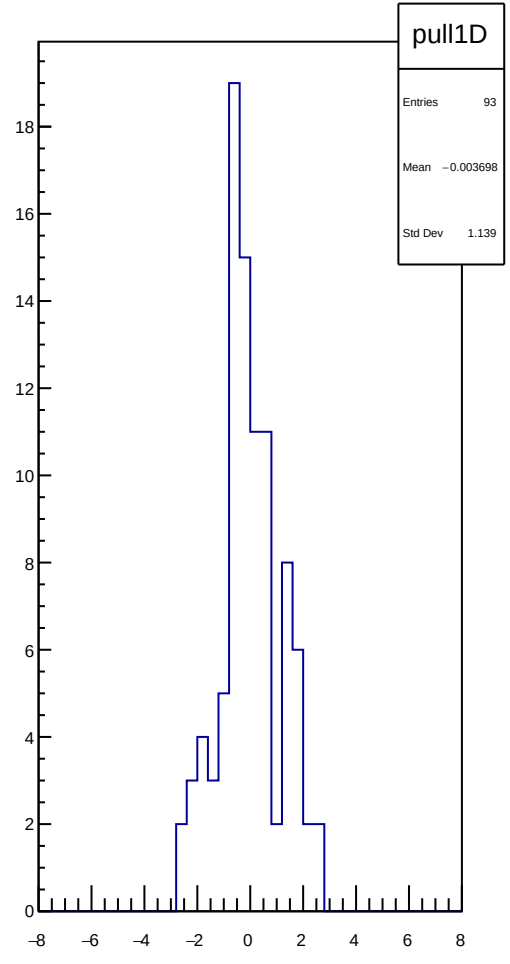

asym_sam5_dit_correction_rms vs run
χ² / ndf 2365 / 92
p0 944.7 ± 0.7105
1040
1020
1000
980
960
940
920
900
880
860

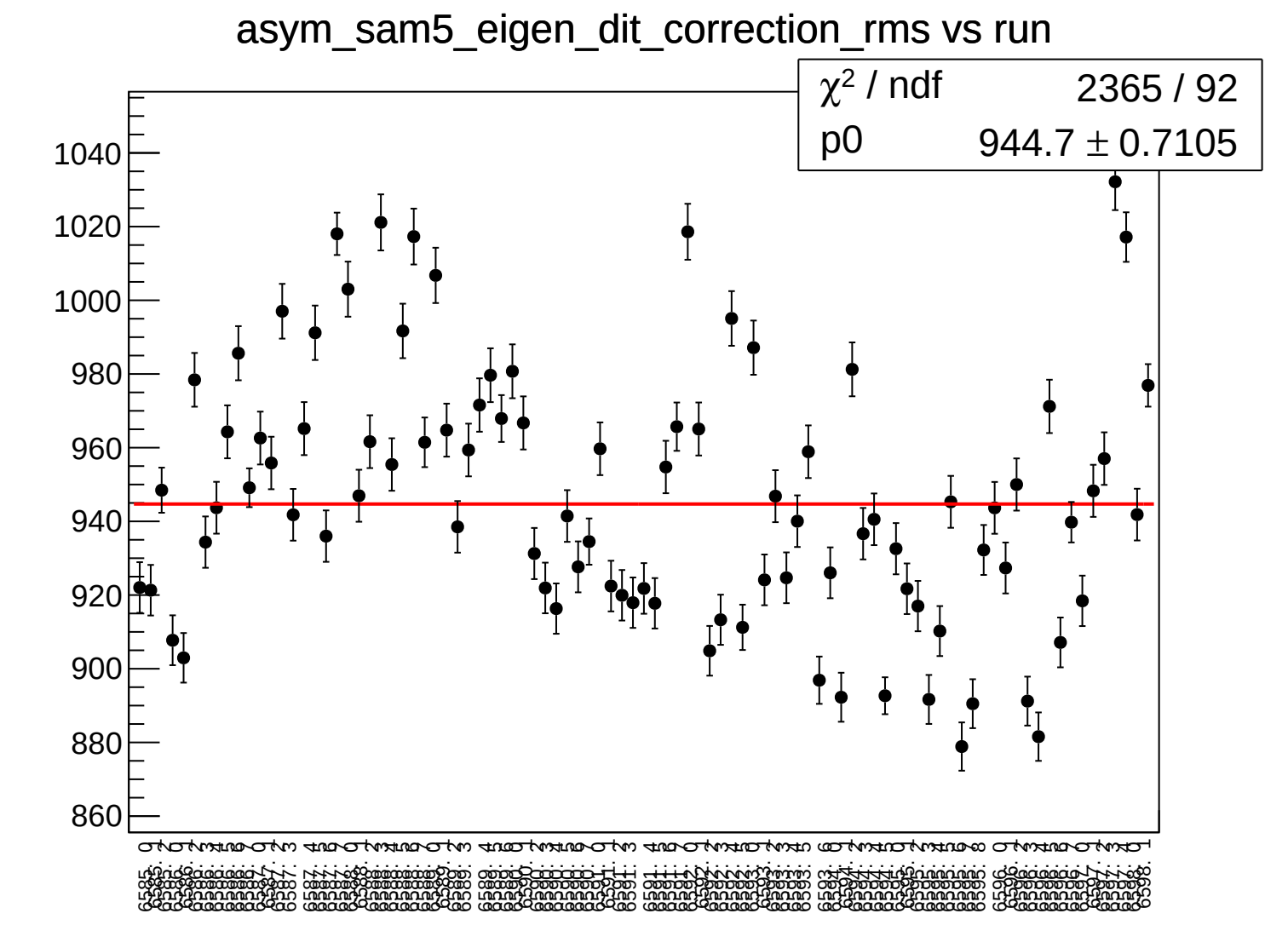

eigen_dit_asym_sam5_mean vs run
χ² / ndf 89.26 / 92
p0 −139.7 ± 154.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 2186
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

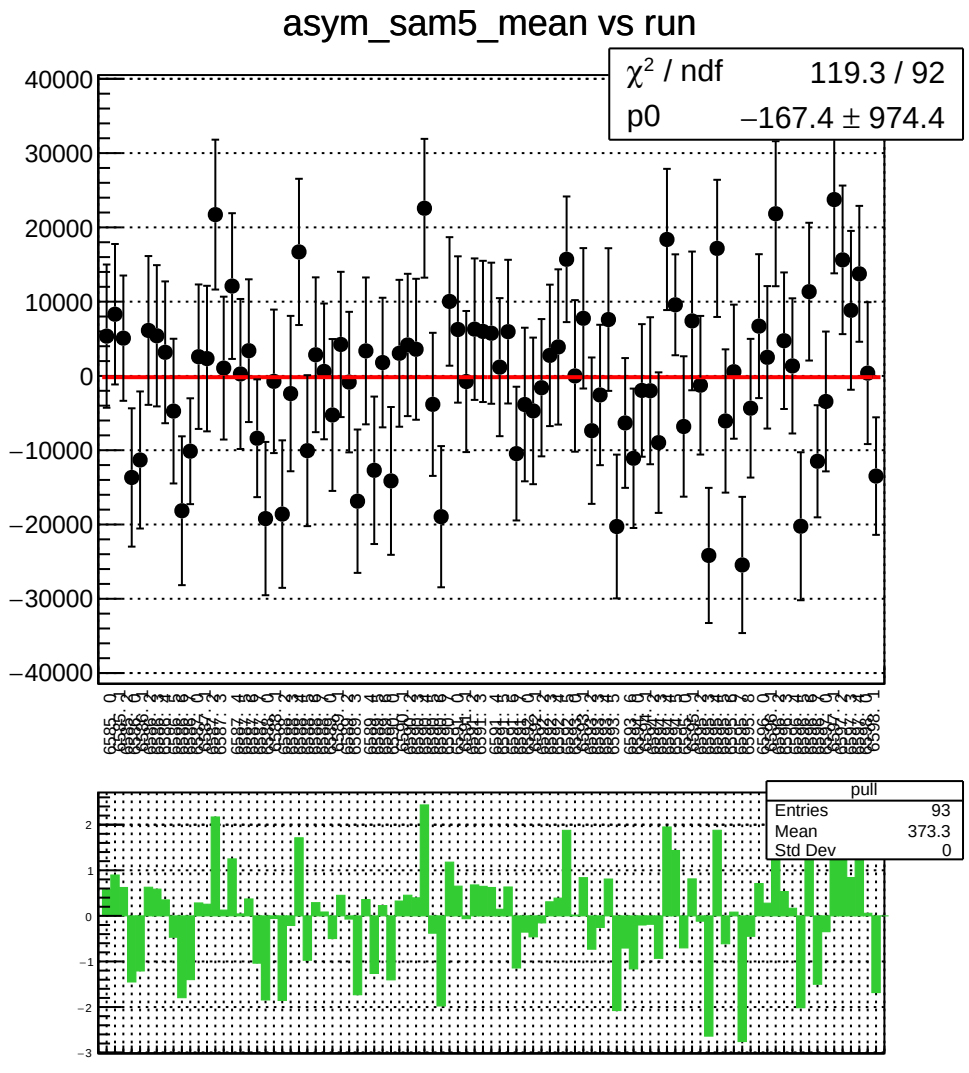

pull1D
Entries 93
Mean 0.0009466
Std Dev 0.9797
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

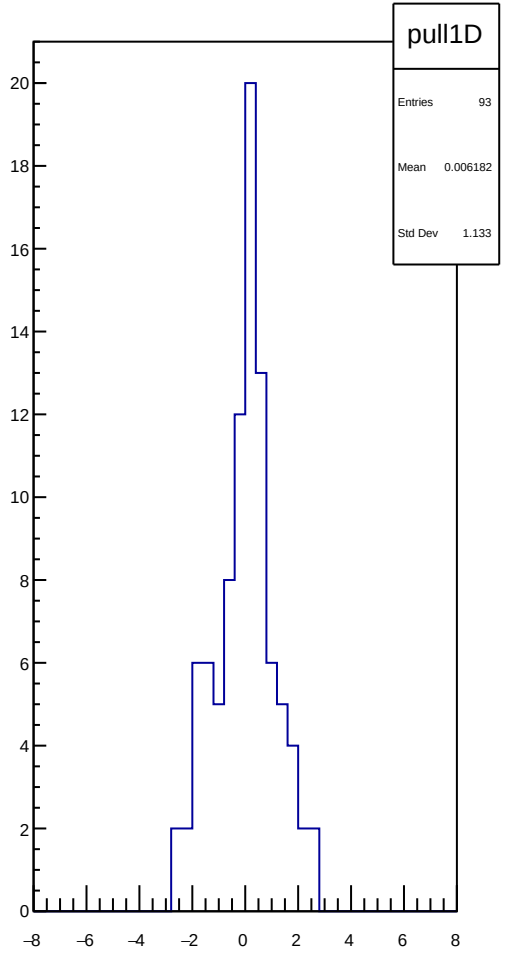

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1451 / 92
p0 145.3 ± 0.1092
165
160
155
150
145
140
135

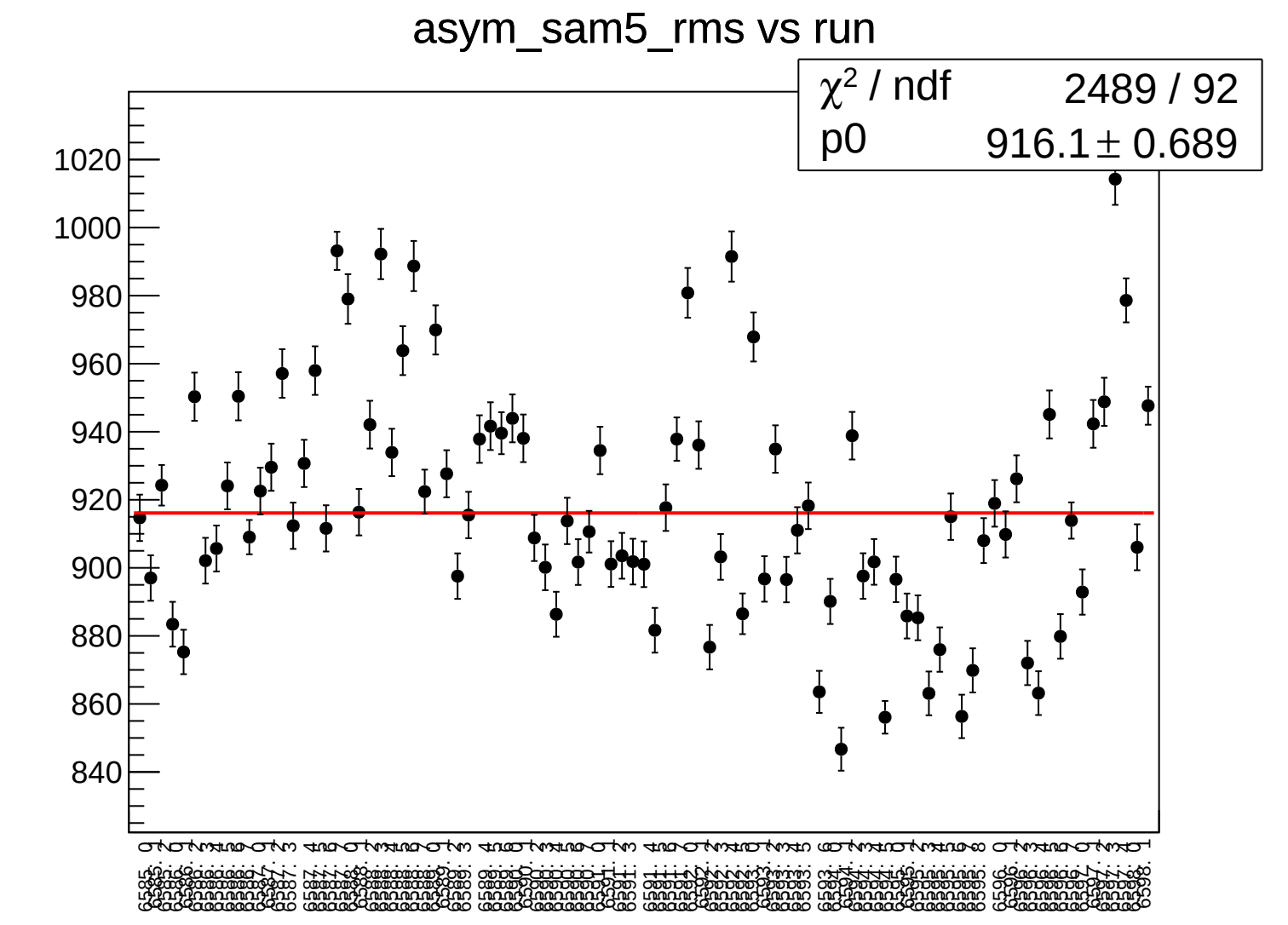

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 120.7 / 92
p0 −13.82 ± 1005
pull
Entries 93
Mean 510.7
Std Dev 0

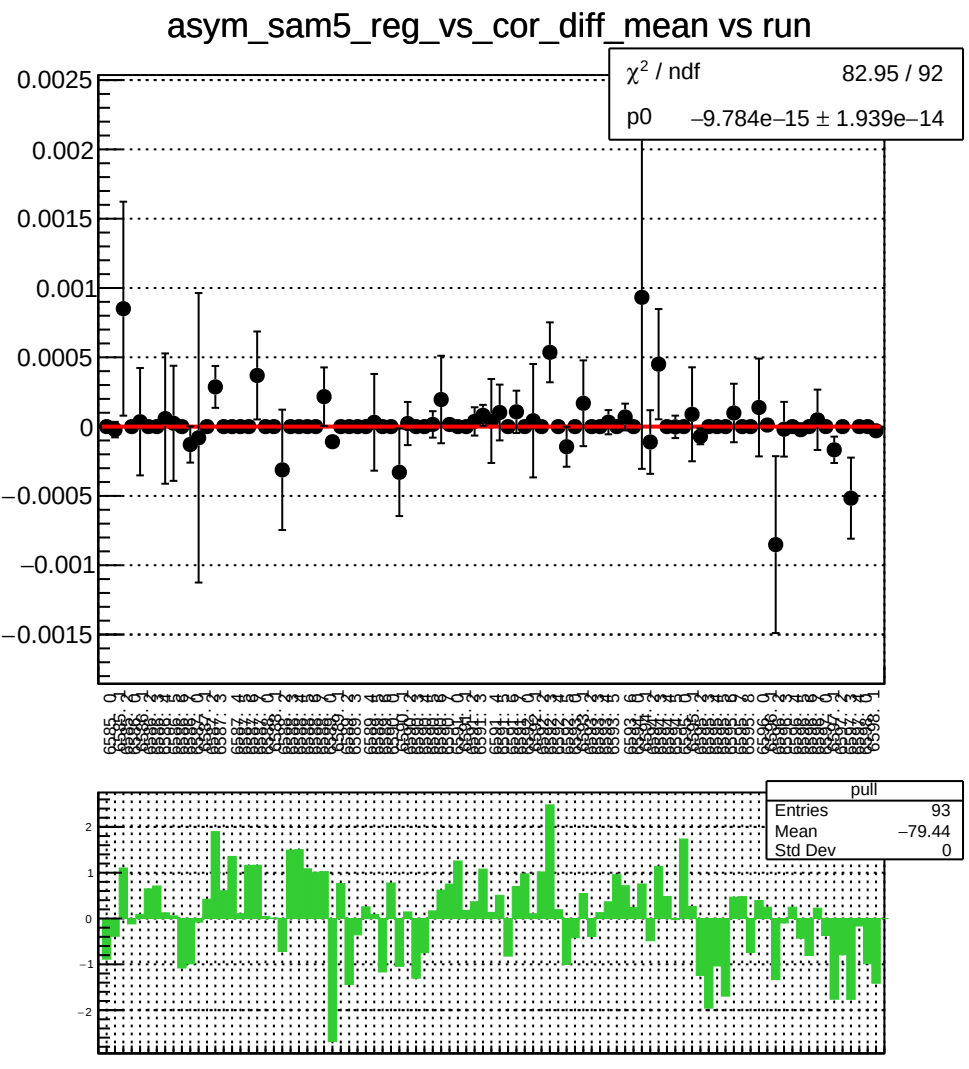

pull1D
Entries 93
Mean −0.003698
Std Dev 1.139

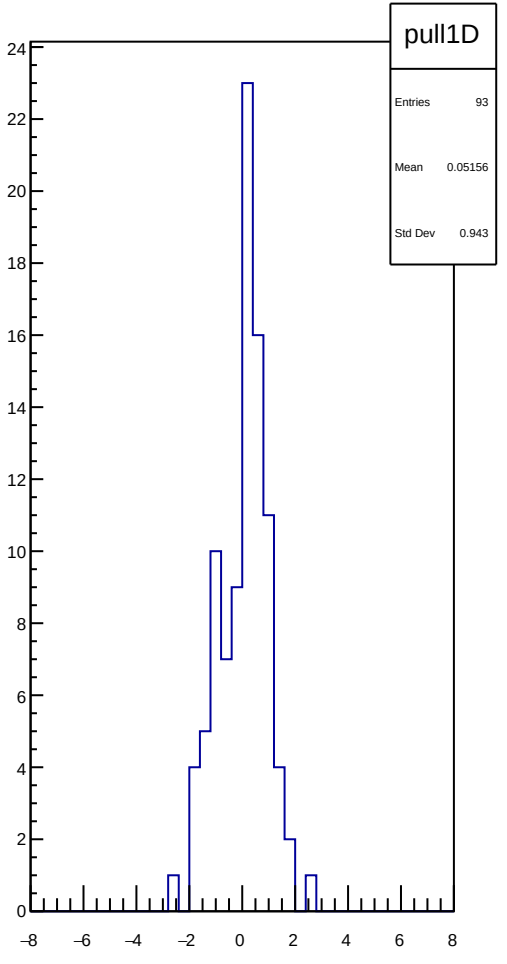

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2365 / 92
p0 944.7 ± 0.7105
1040
1020
1000
980
960
940
920
900
880
860

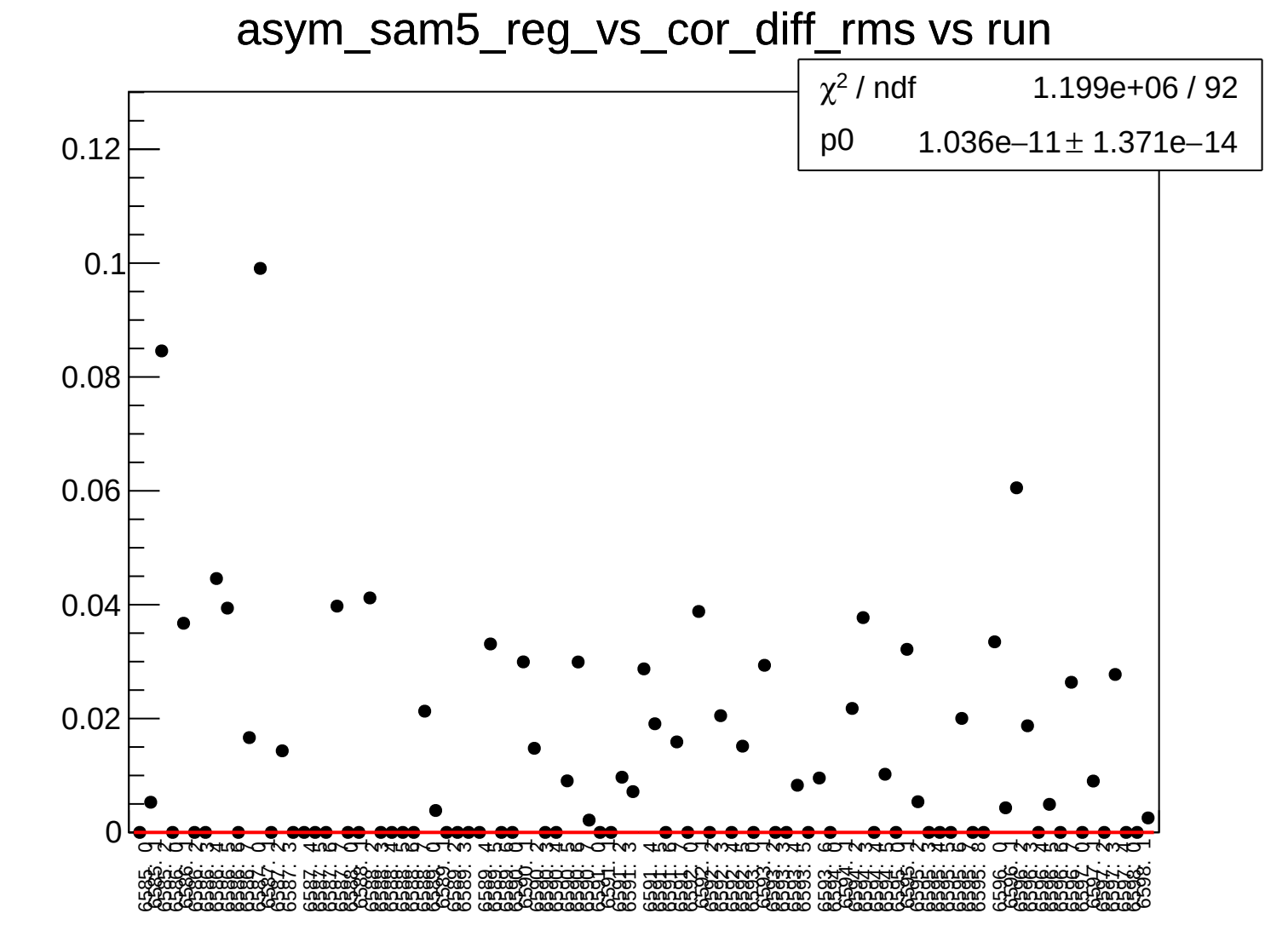

asym_sam5_mean vs run
χ² / ndf 119.3 / 92
p0 −167.4 ± 974.4
pull
Entries 93
Mean 373.3
Std Dev 0

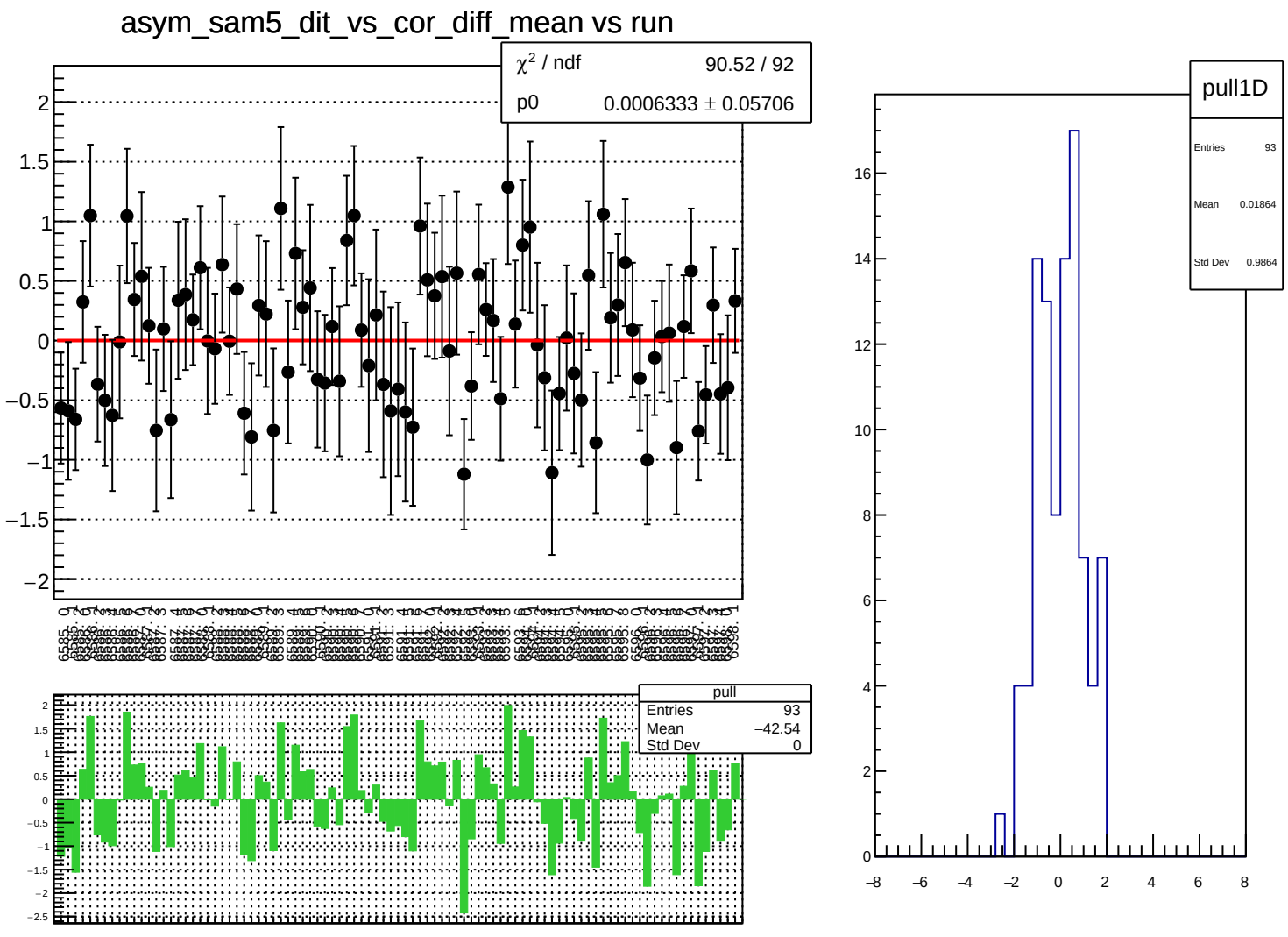

pull1D
Entries 93
Mean 0.006182
Std Dev 1.133

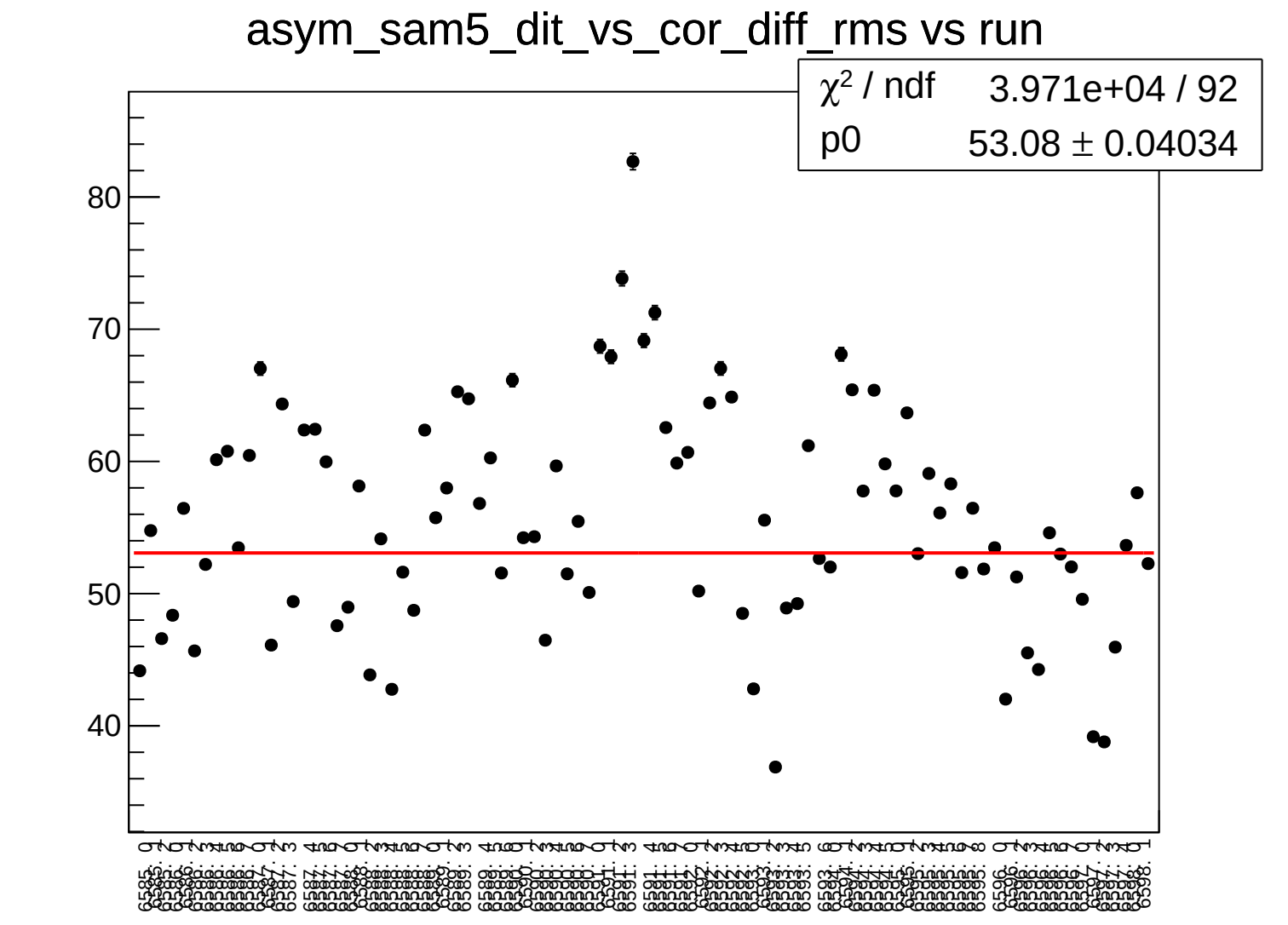

asym_sam5_rms vs run
χ^2 / ndf 2489 / 92
p0 916.1 ± 0.689
1020
1000
980
960
940
920
900
880
860
840

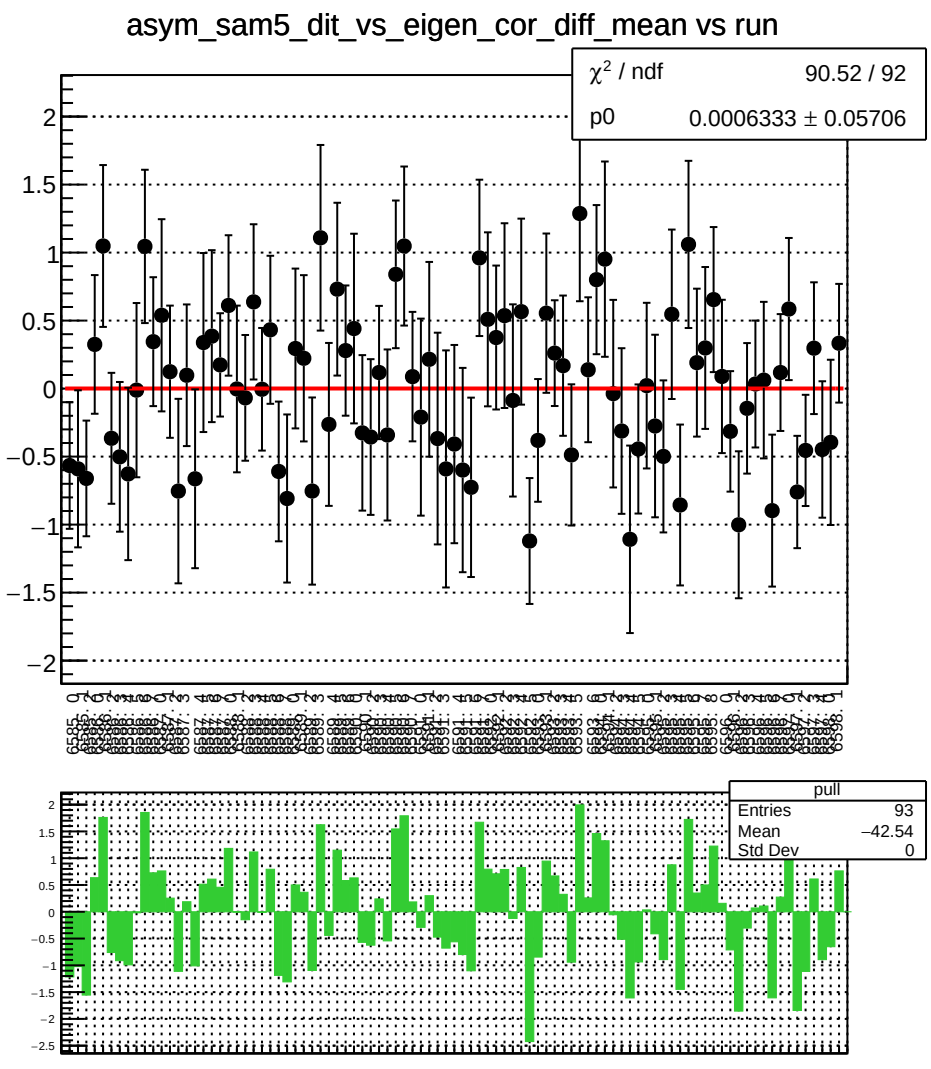

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 82.95 / 92
p0 −9.784e−15 ± 1.939e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean −79.44
Std Dev 0
2
1
0
−1
−2

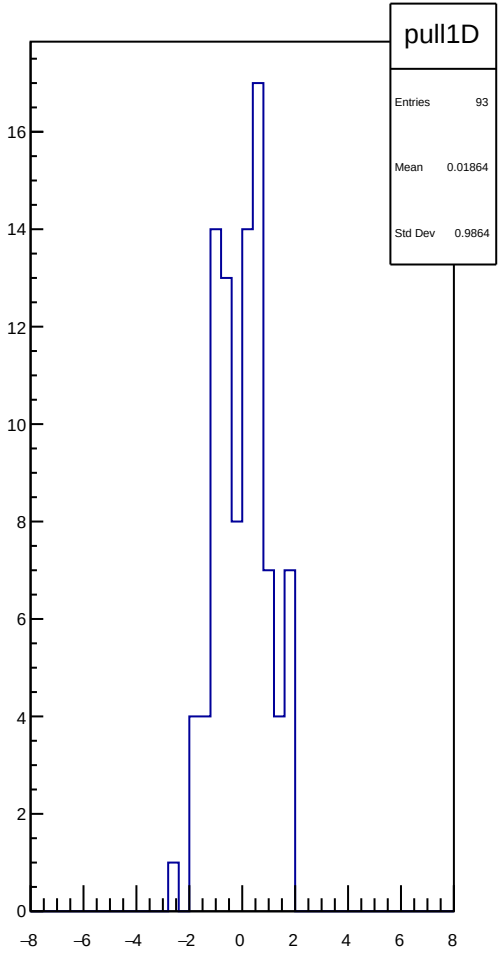

pull1D
Entries 93
Mean 0.05156
Std Dev 0.943
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

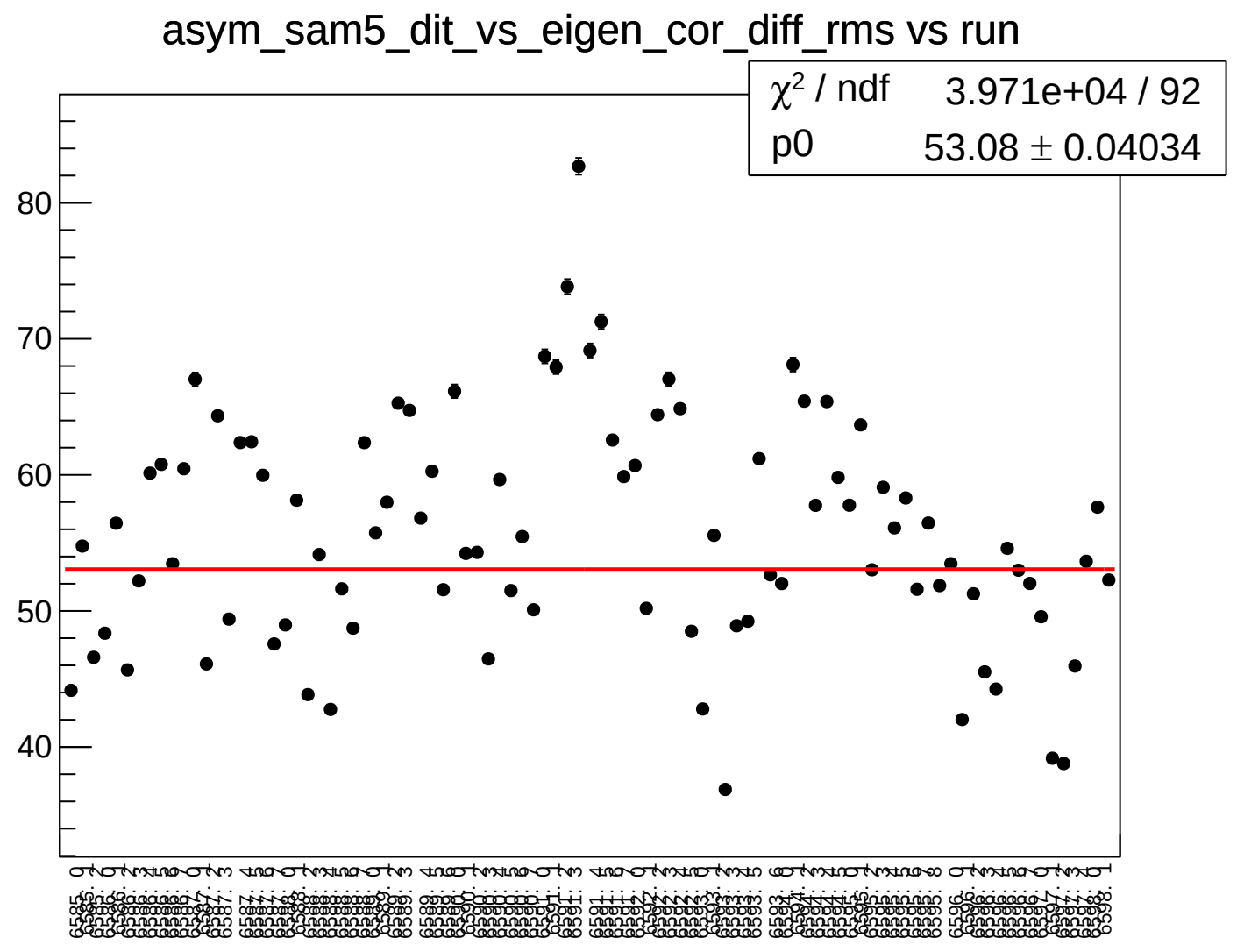

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.199e+06 / 92
p0 1.036e−11 ± 1.371e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

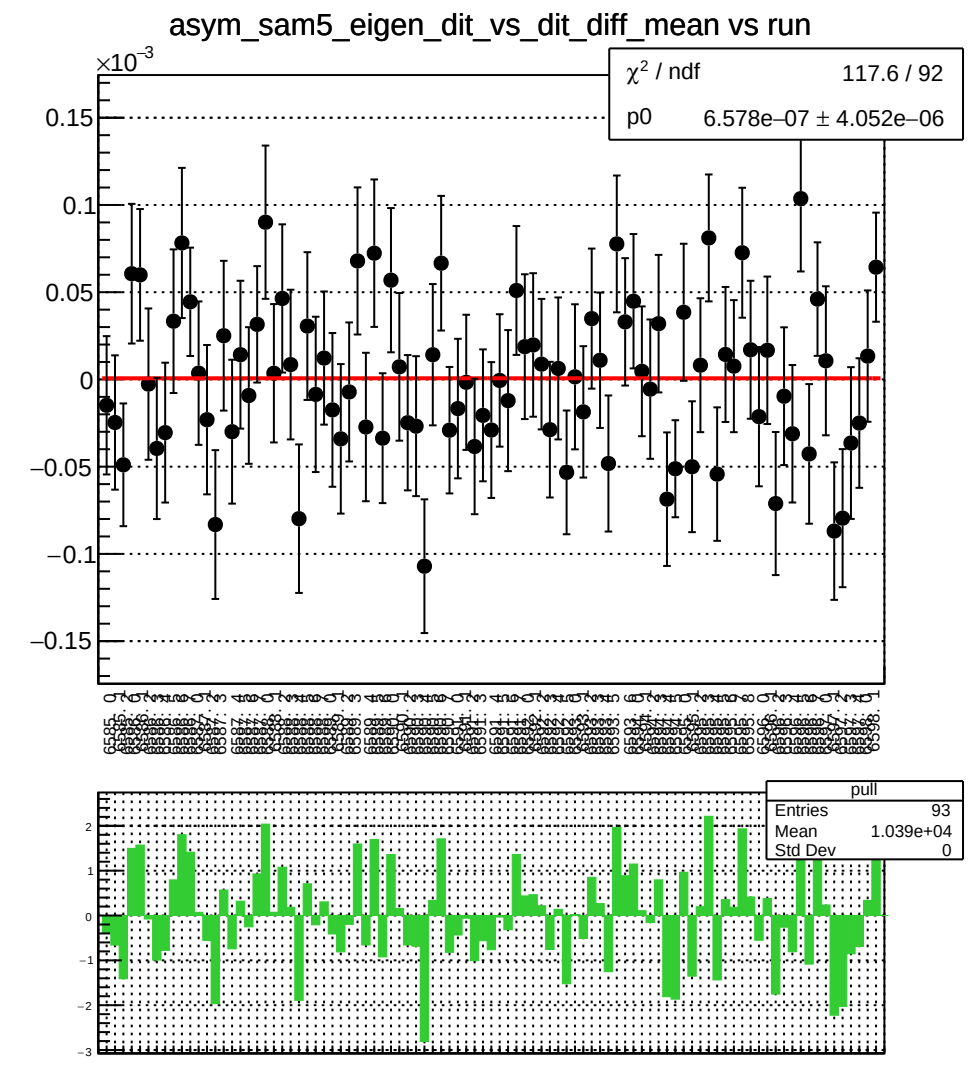

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 90.52 / 92
p0 0.0006333 ± 0.05706
pull
Entries 93
Mean −42.54
Std Dev 0
pull1D
Entries 93
Mean 0.01864
Std Dev 0.9864

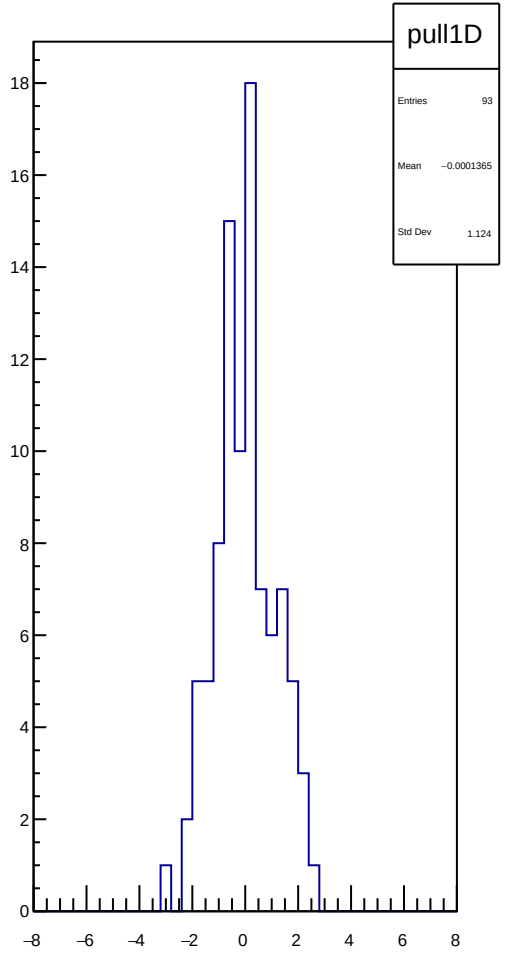

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 3.971e+04 / 92
p0 53.08 ± 0.04034
80
70
60
50
40

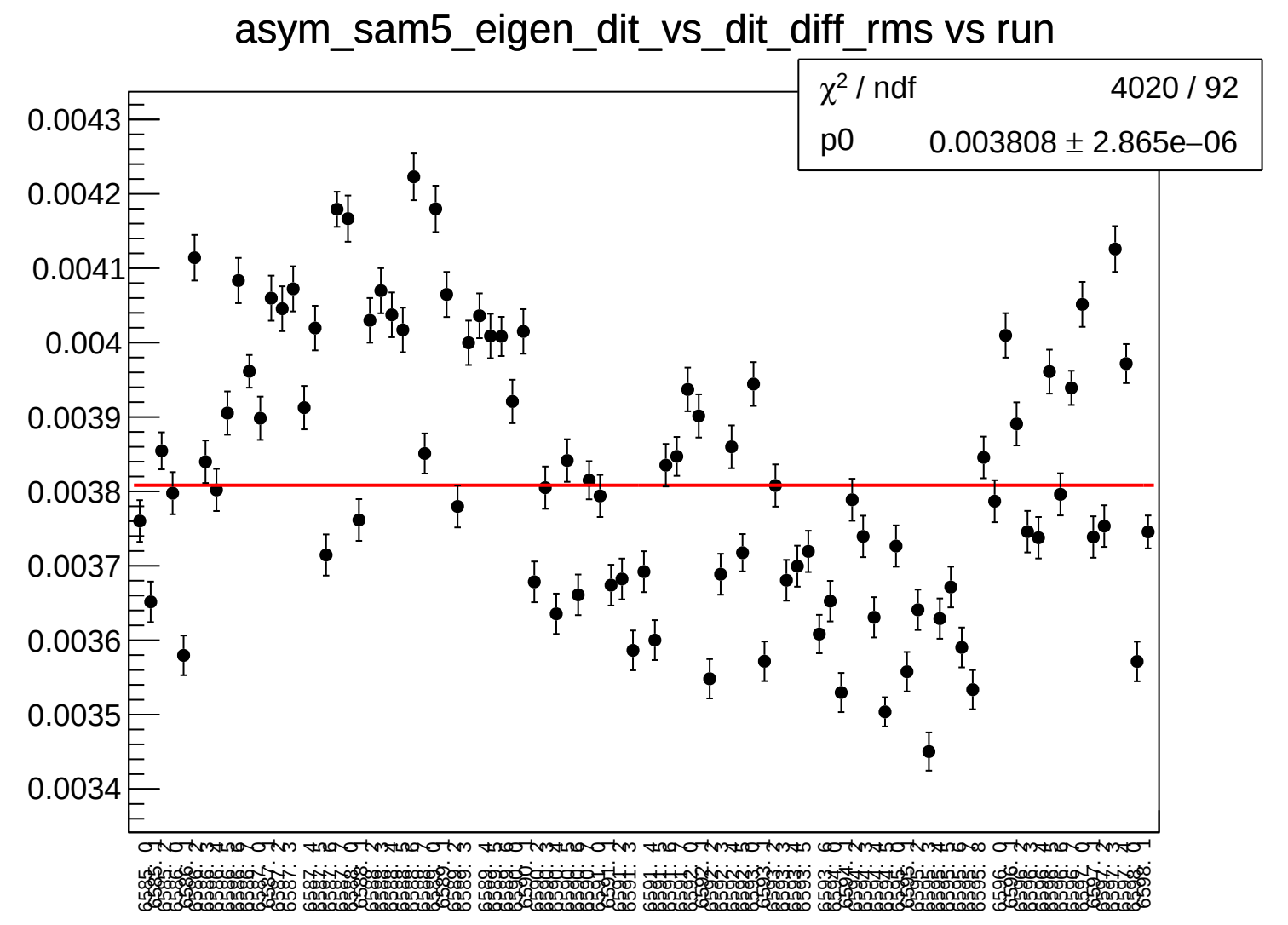

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.52 / 92
p0 0.0006333 ± 0.05706
pull
Entries 93
Mean −42.54
Std Dev 0

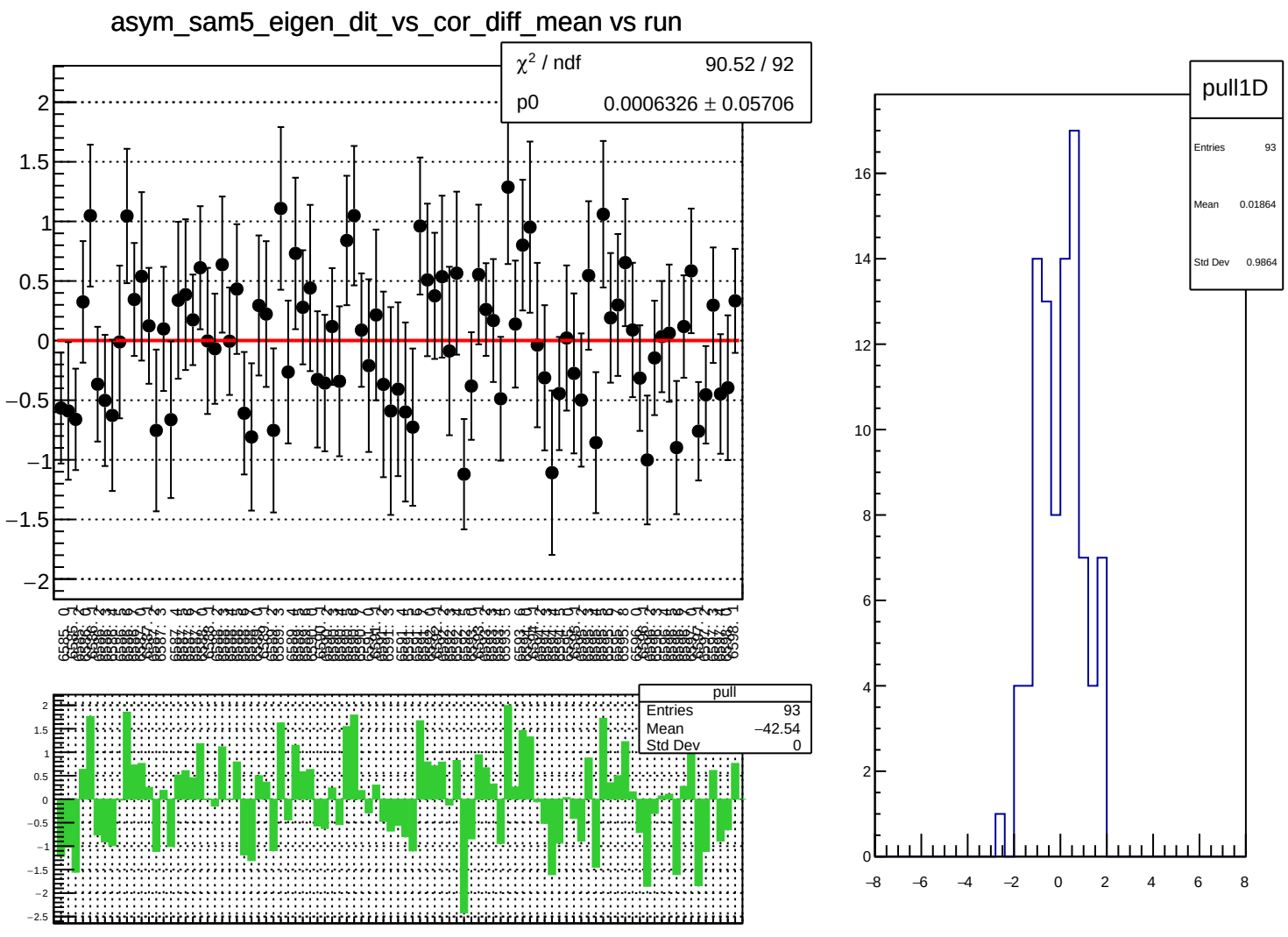

pull1D
Entries 93
Mean 0.01864
Std Dev 0.9864

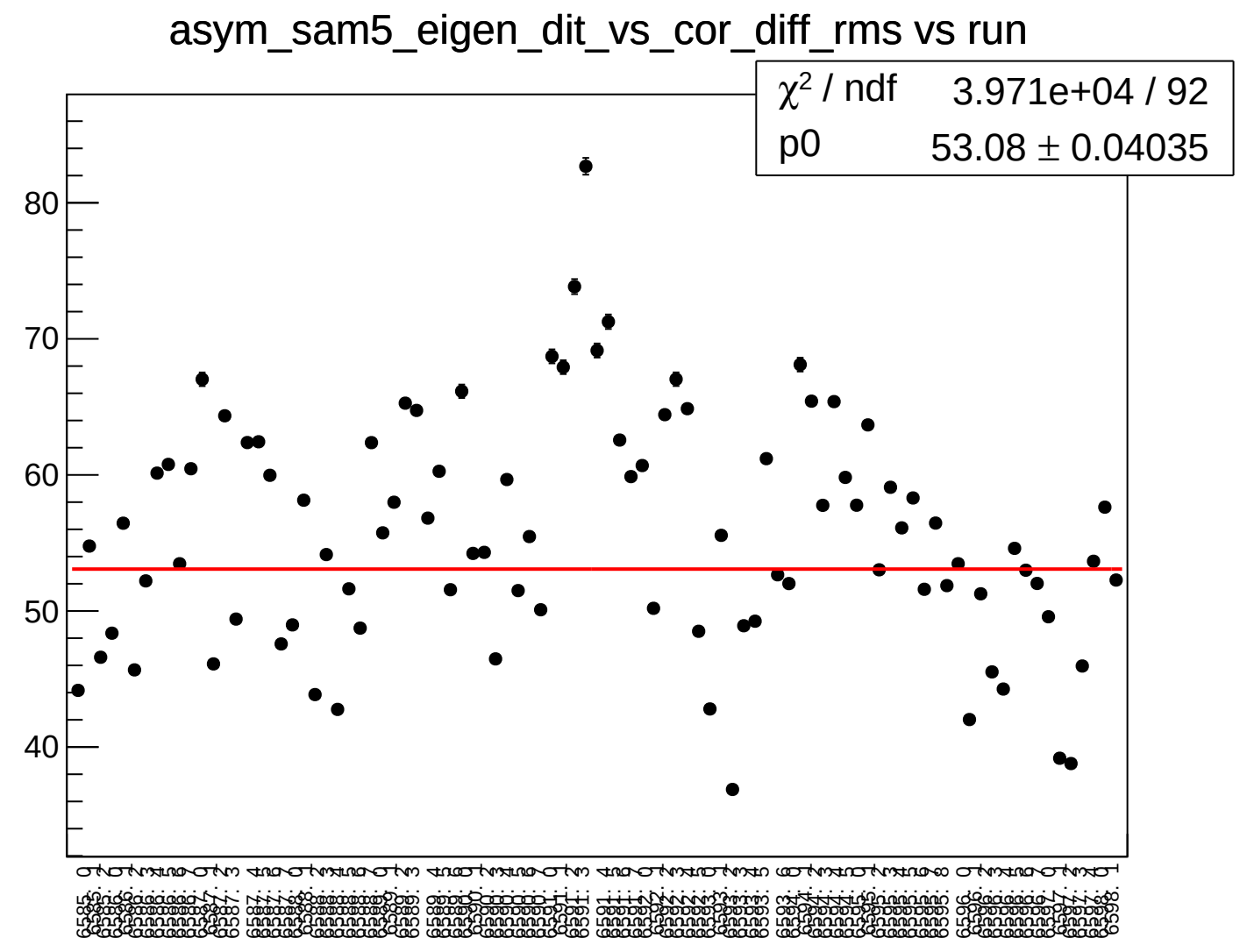

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.971e+04 / 92
p0 53.08 ± 0.04034
80
70
60
50
40

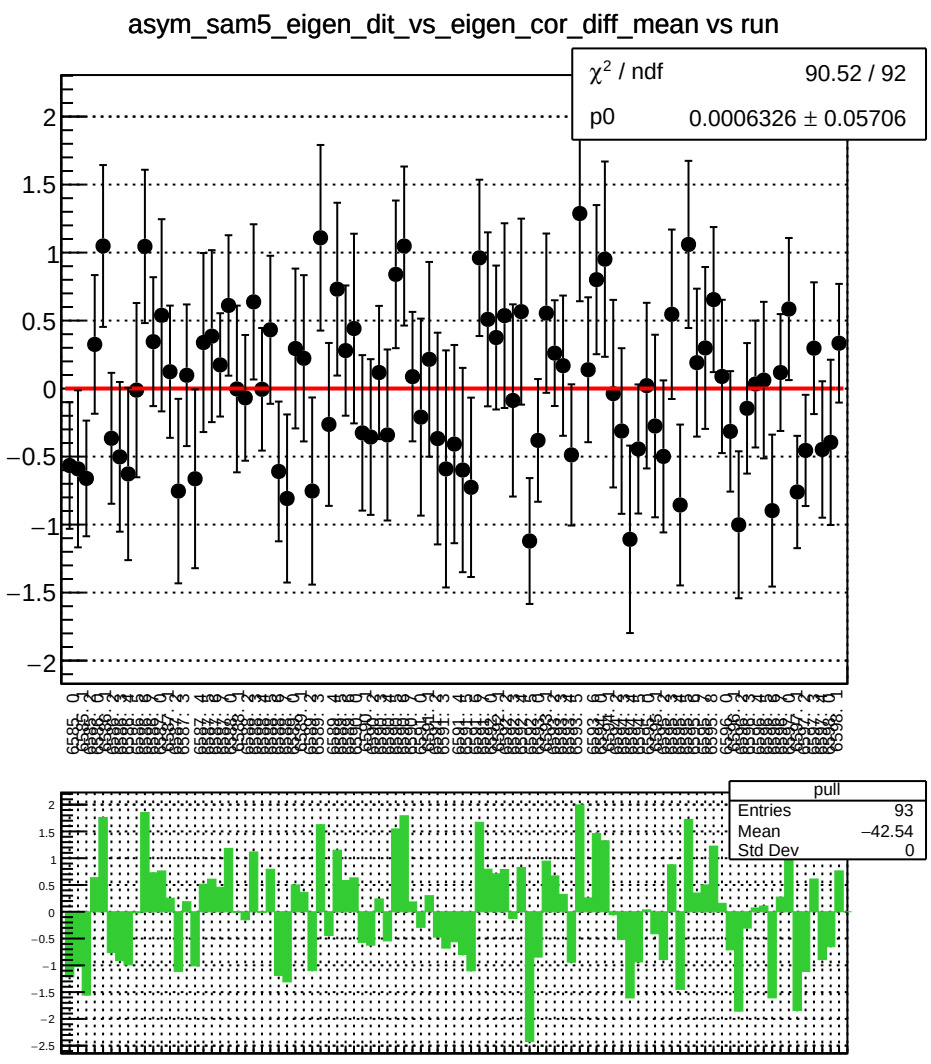

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.6 / 92
p0 6.578e−07 ± 4.052e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 1.039e+04
Std Dev 0
2
1
0
−1
−2
−3

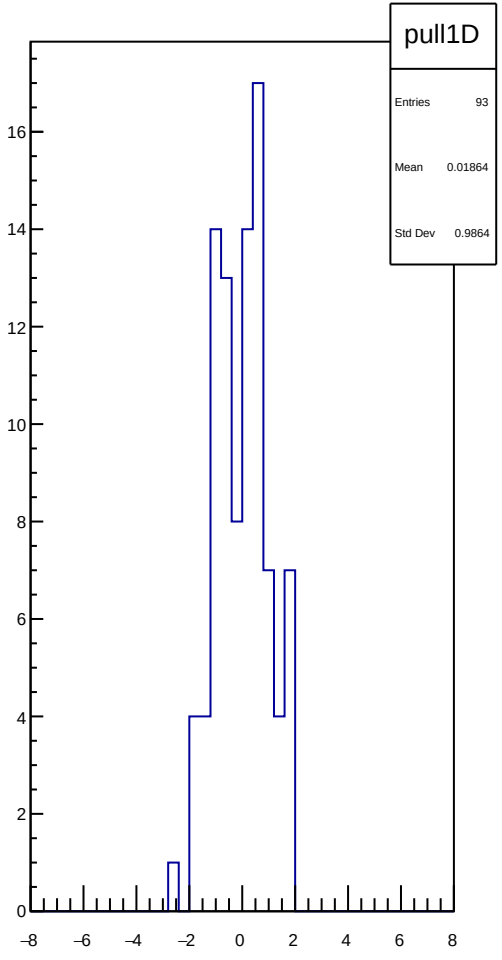

pull1D
Entries 93
Mean −0.0001365
Std Dev 1.124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

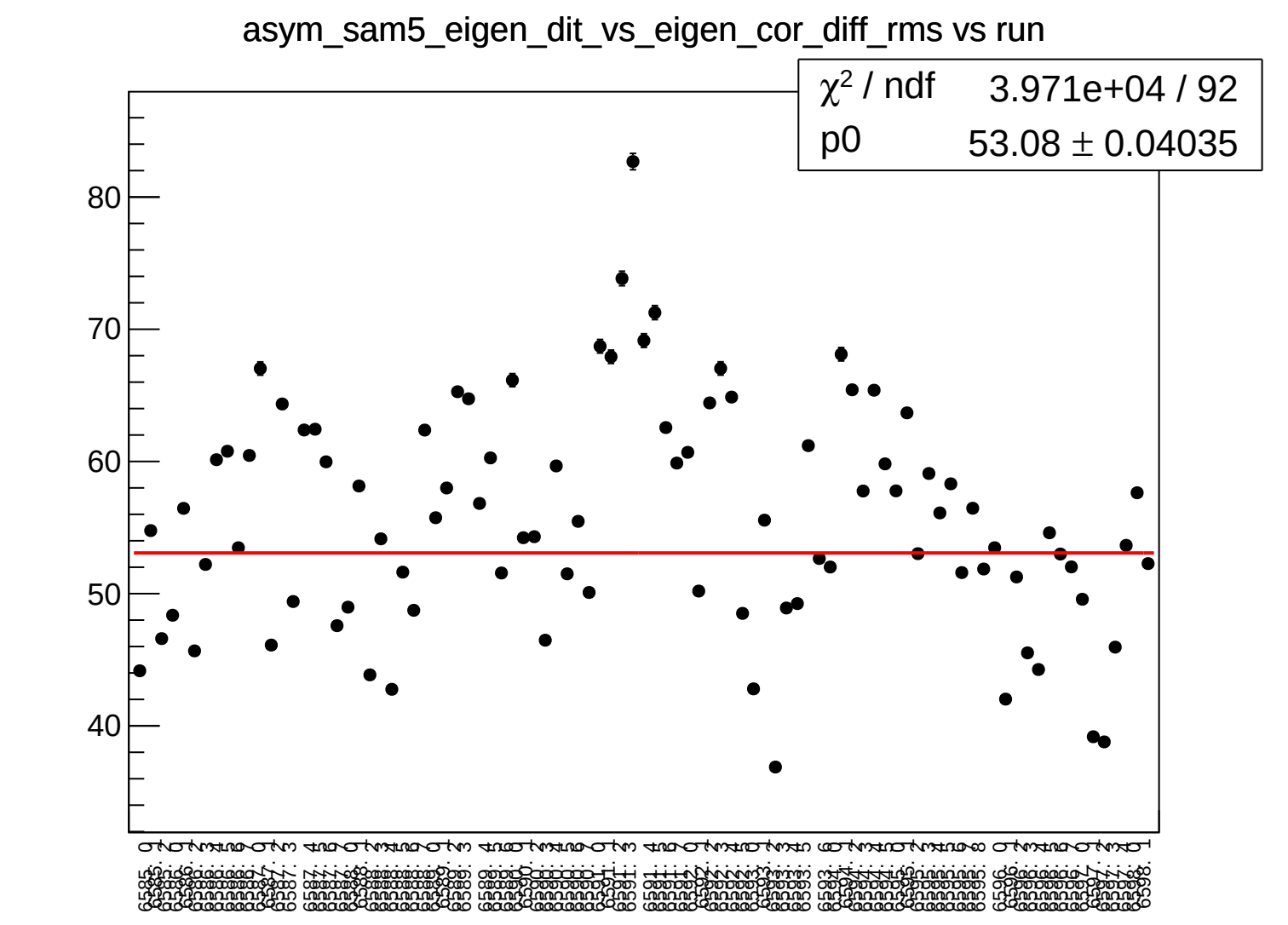

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4020 / 92
p0 0.003808 ± 2.865e−06
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034

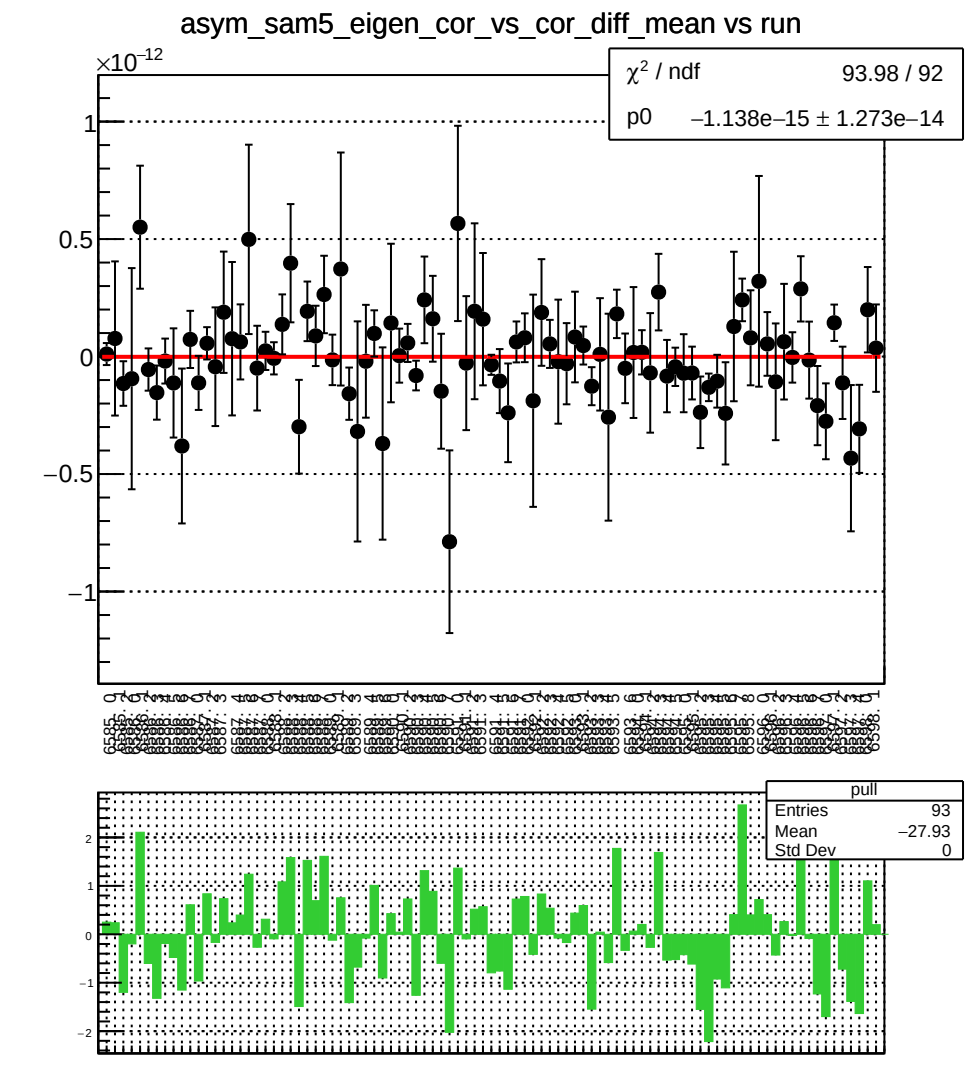

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.52 / 92
p0 0.0006326 ± 0.05706
pull
Entries 93
Mean −42.54
Std Dev 0
pull1D
Entries 93
Mean 0.01864
Std Dev 0.9864

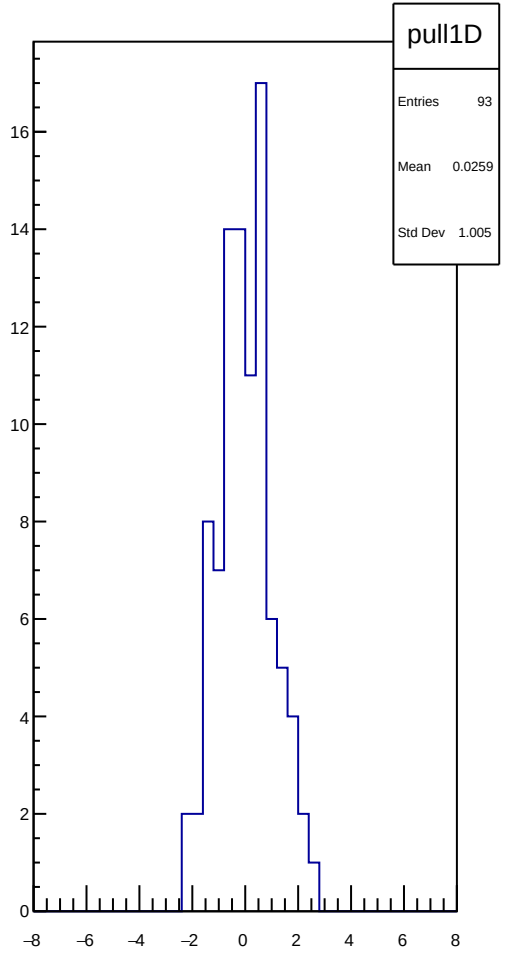

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.971e+04 / 92
p0 53.08 ± 0.04035
80
70
60
50
40

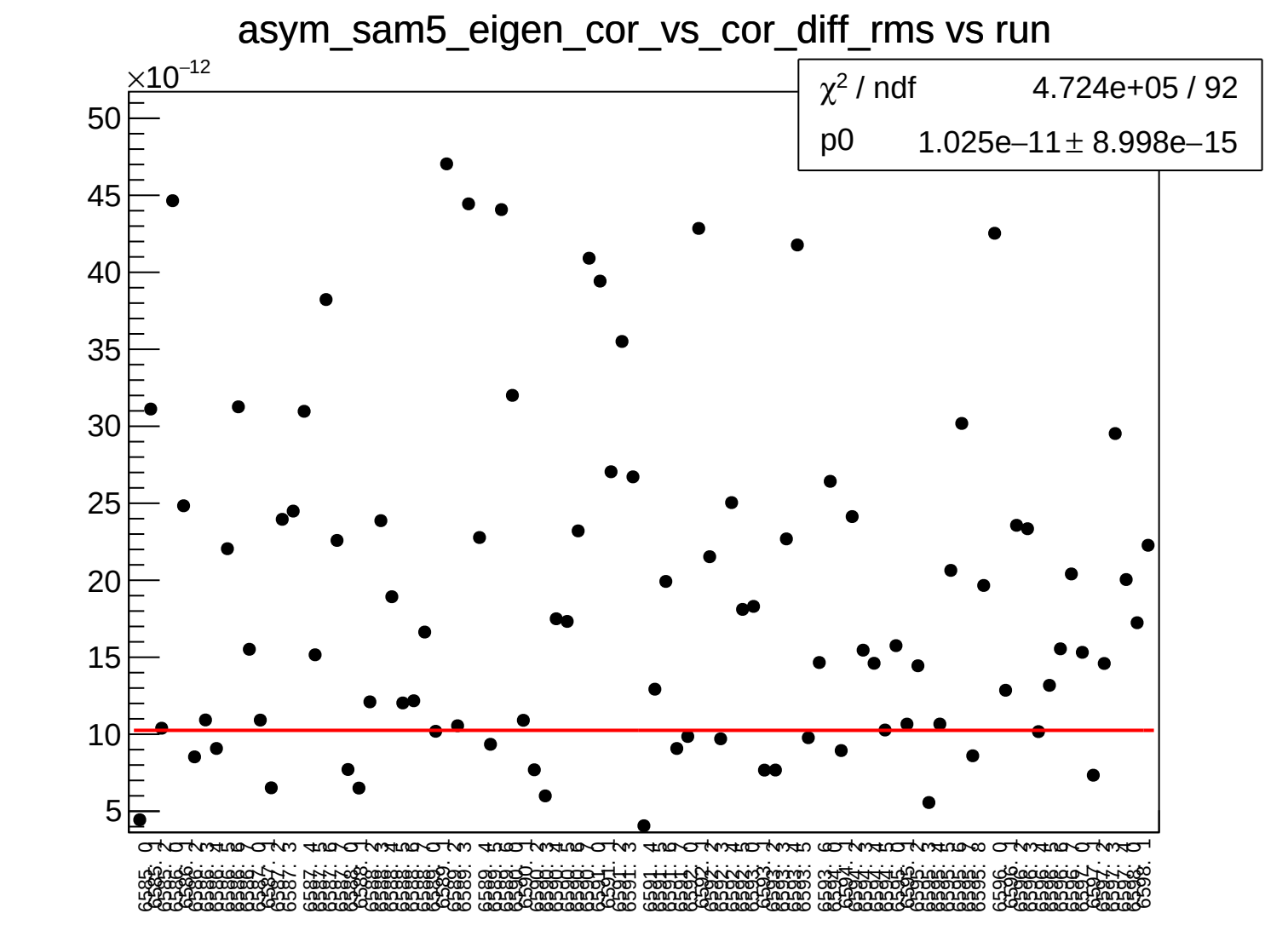

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.52 / 92
p0 0.0006326 ± 0.05706
pull
Entries 93
Mean −42.54
Std Dev 0

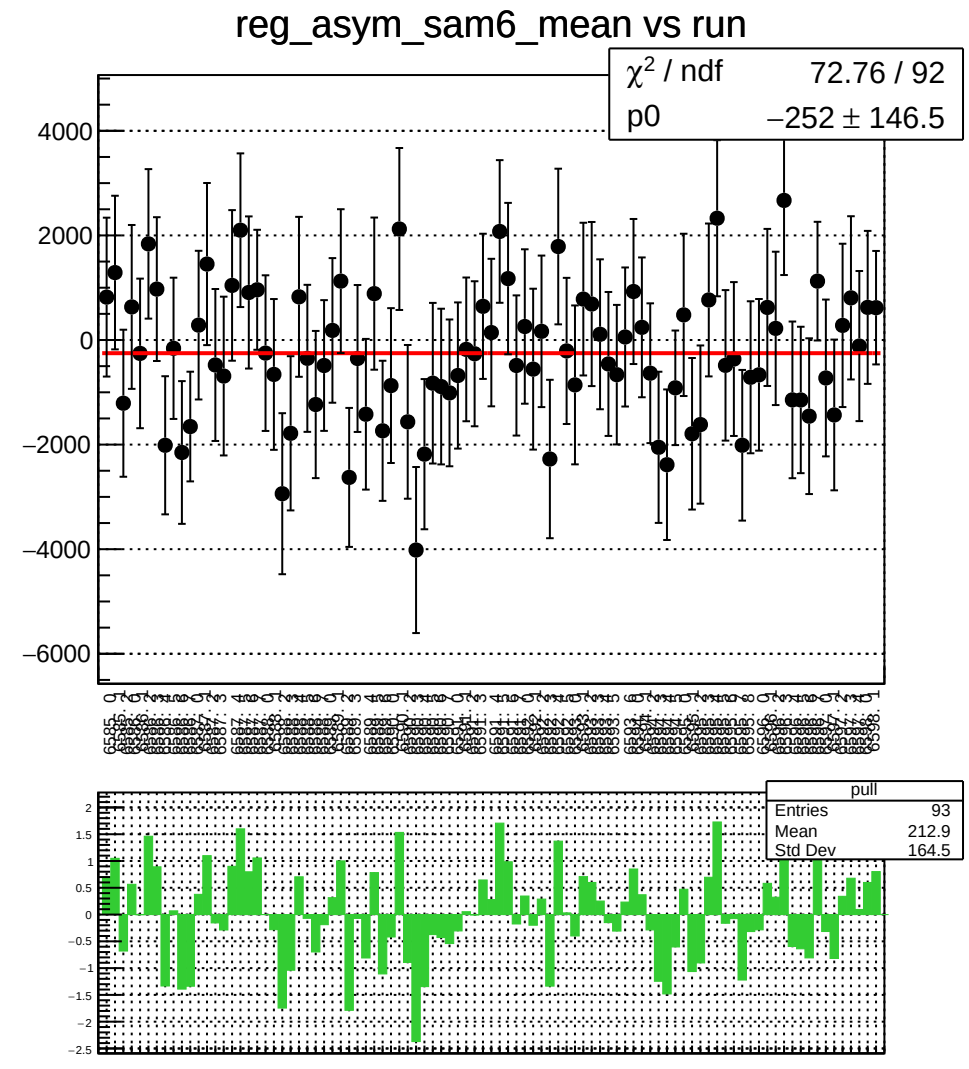

pull1D
Entries 93
Mean 0.01864
Std Dev 0.9864

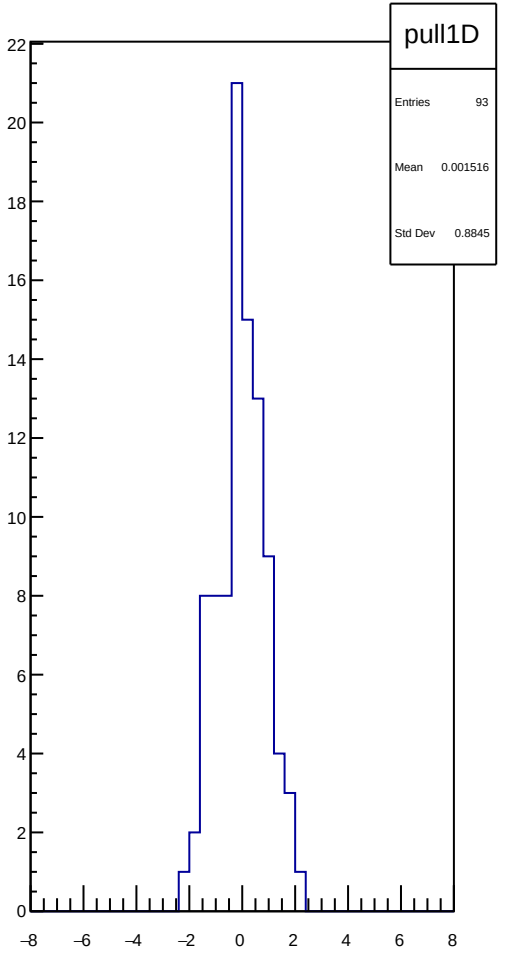

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.971e+04 / 92
p0 53.08 ± 0.04035
80
70
60
50
40

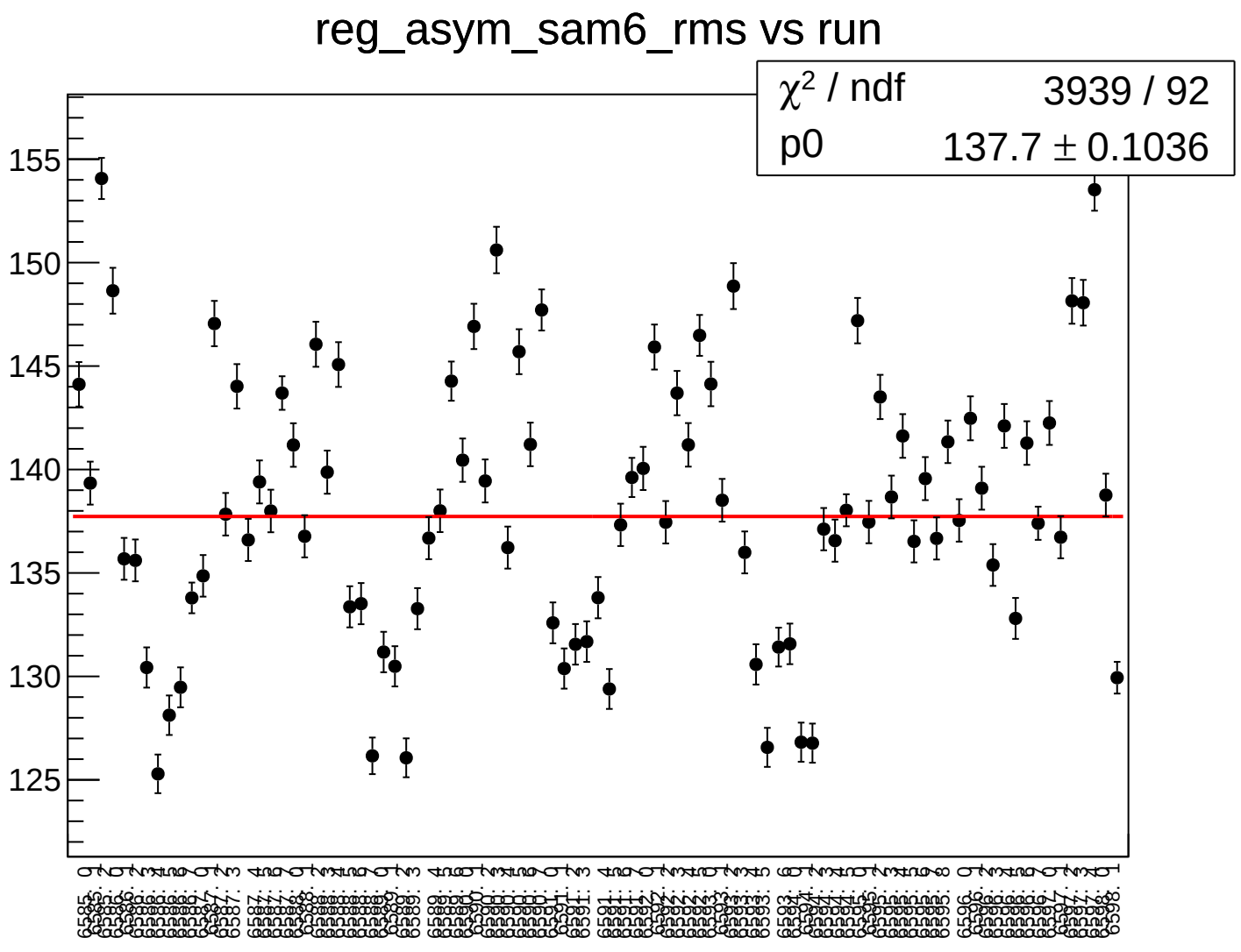

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 93.98 / 92
p0 −1.138e−15 ± 1.273e−14
pull
Entries 93
Mean −27.93
Std Dev 0

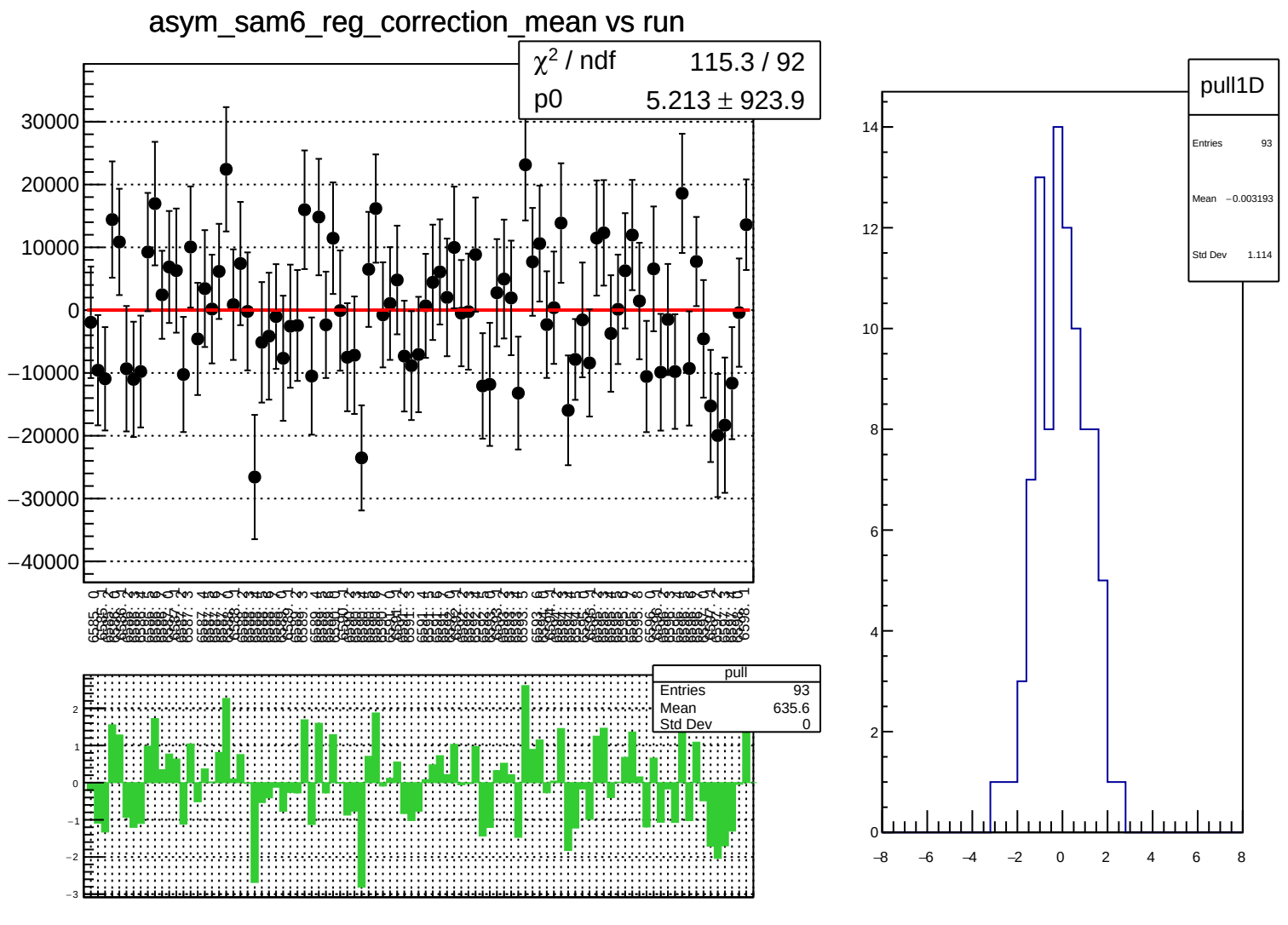

pull1D
Entries 93
Mean 0.0259
Std Dev 1.005

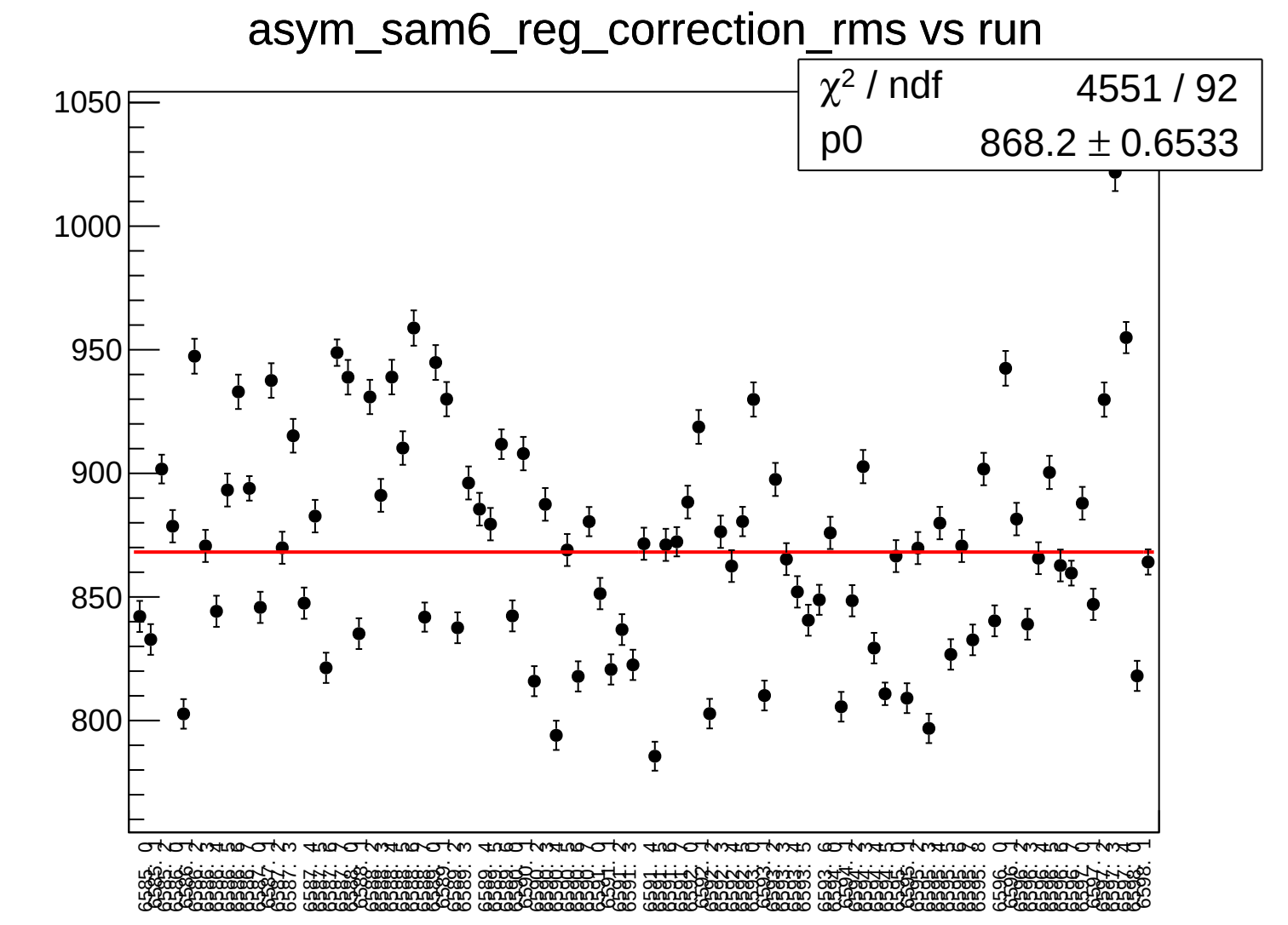

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.724e+05 / 92
p0 1.025e−11 ± 8.998e−15
50
45
40
35
30
25
20
15
10
5

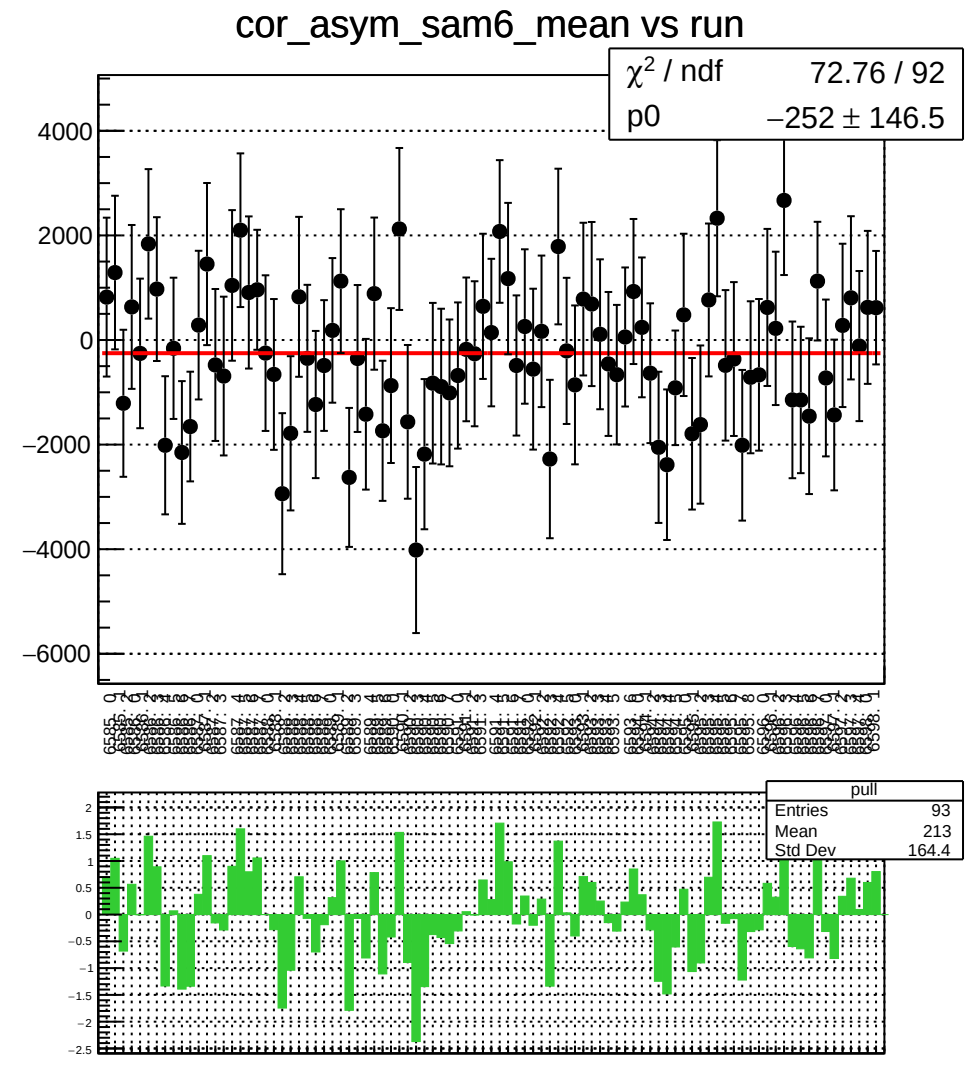

reg_asym_sam6_mean vs run
χ² / ndf 72.76 / 92
p0 −252 ± 146.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 212.9
Std Dev 164.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

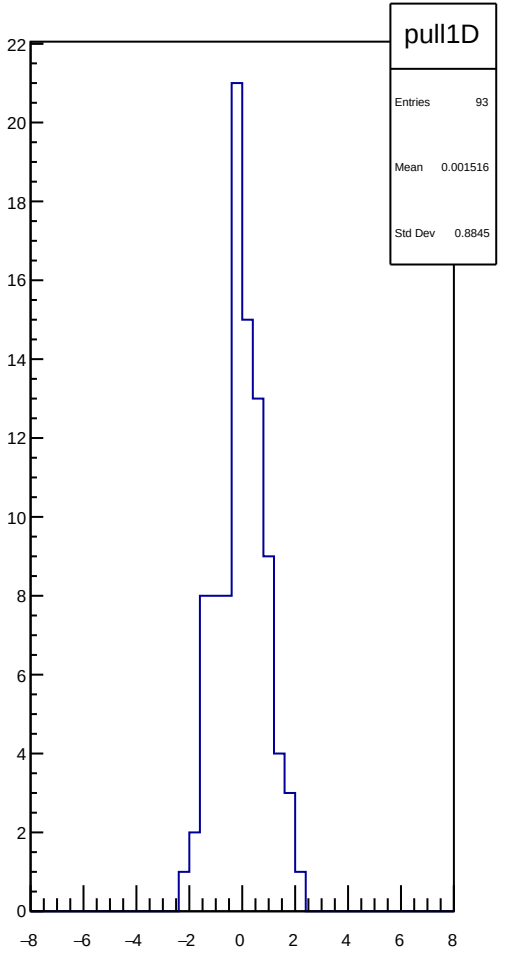

pull1D
Entries 93
Mean 0.001516
Std Dev 0.8845
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

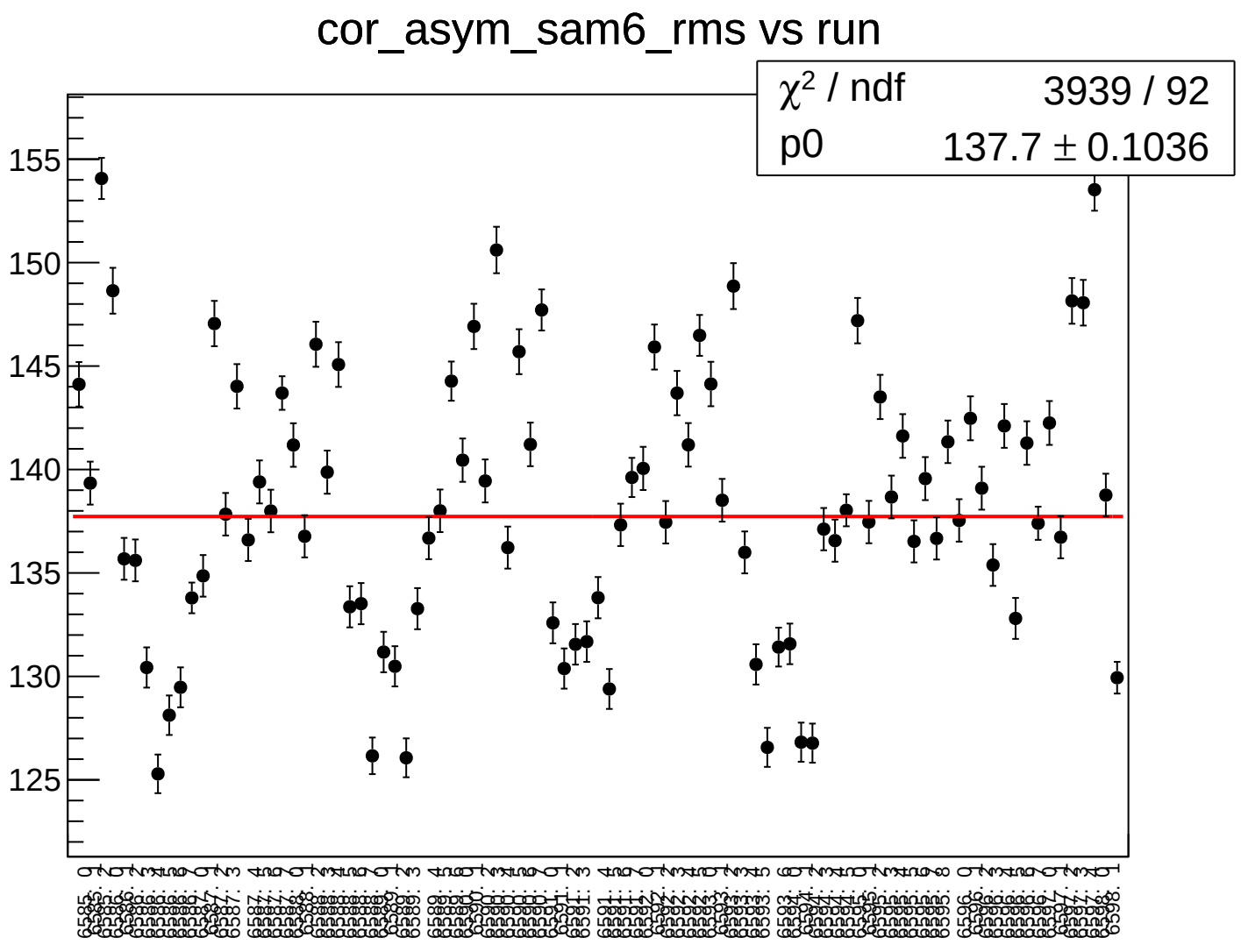

reg_asym_sam6_rms vs run
χ² / ndf 3939 / 92
p0 137.7 ± 0.1036
155
150
145
140
135
130
125

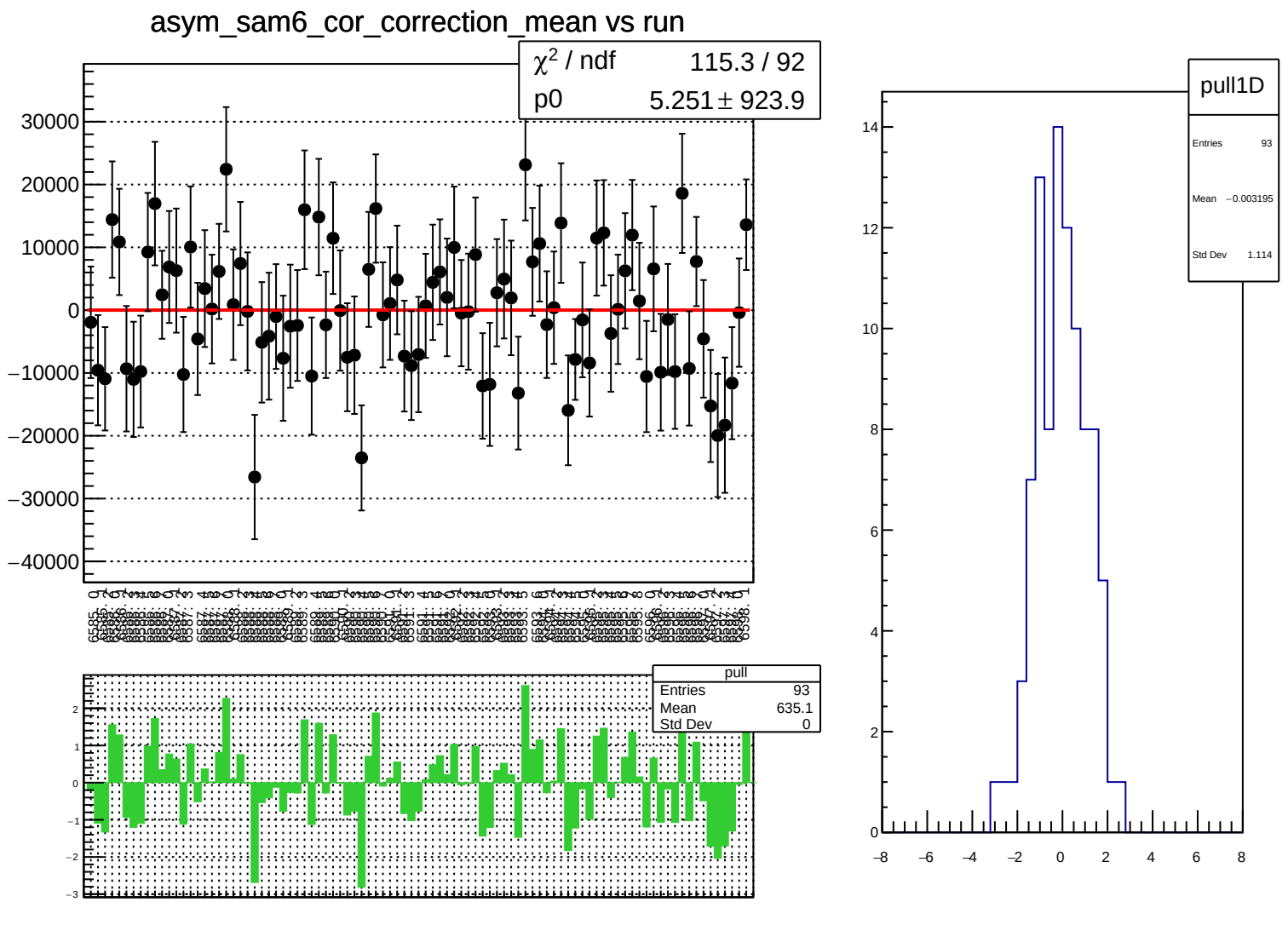

asym_sam6_reg_correction_mean vs run
χ² / ndf 115.3 / 92
p0 5.213 ± 923.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 635.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003193
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

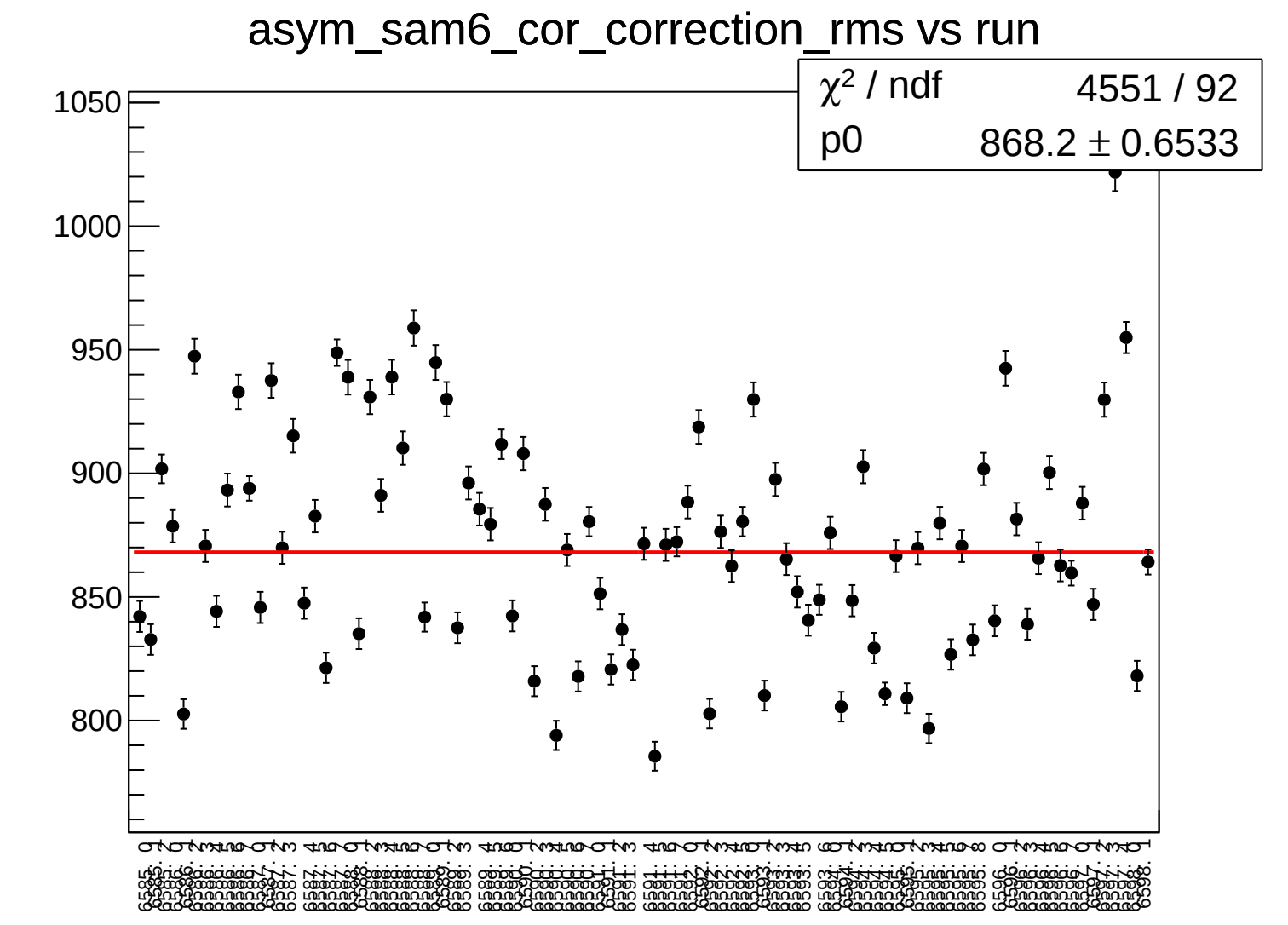

asym_sam6_reg_correction_rms vs run
χ² / ndf 4551 / 92
p0 868.2 ± 0.6533
1050
1000
950
900
850
800

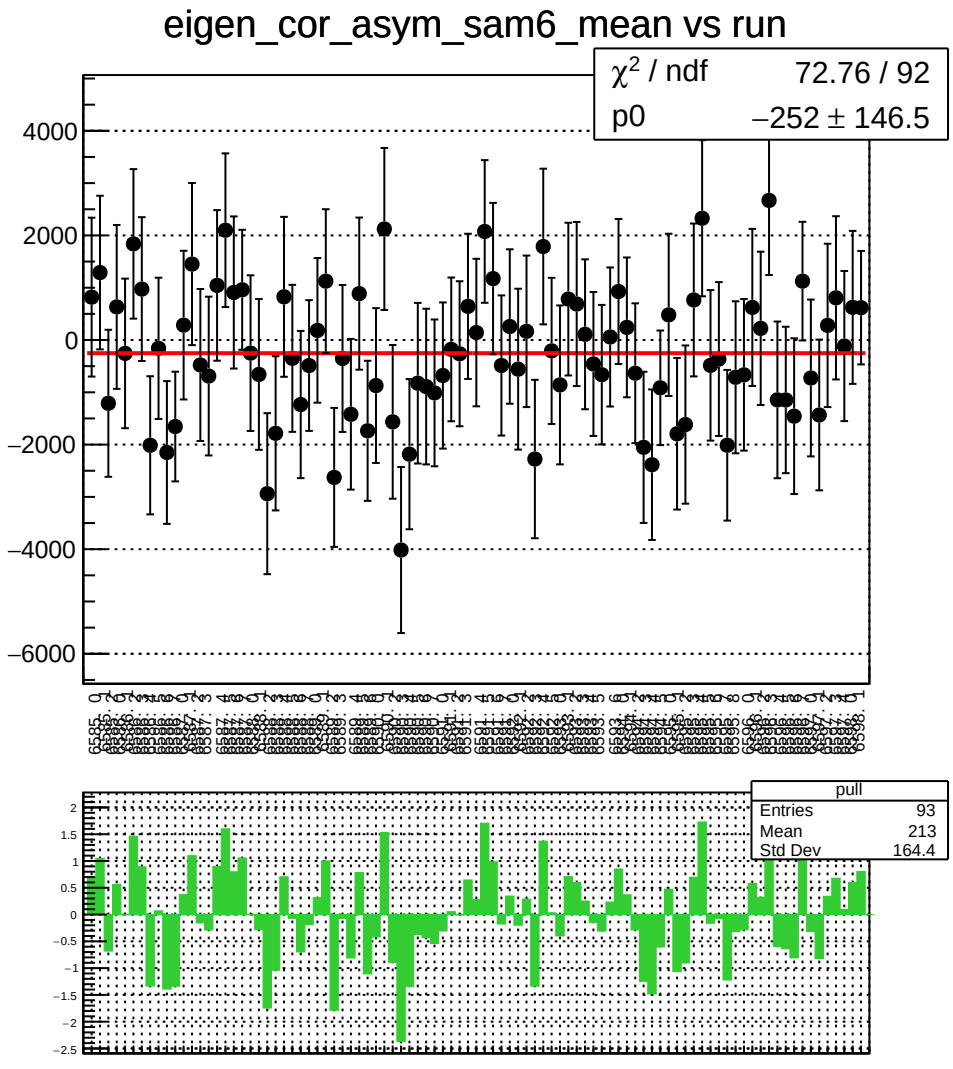

cor_asym_sam6_mean vs run
χ² / ndf 72.76 / 92
p0 −252 ± 146.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 213
Std Dev 164.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

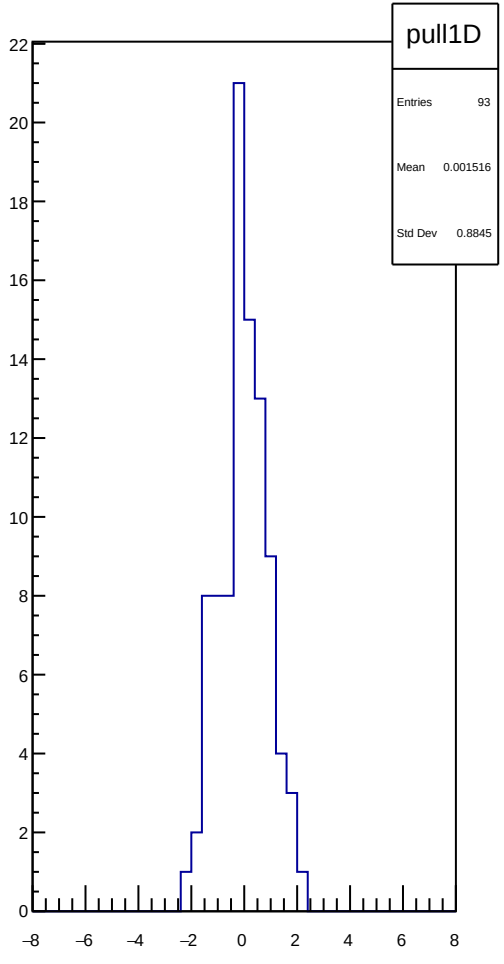

pull1D
Entries 93
Mean 0.001516
Std Dev 0.8845
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

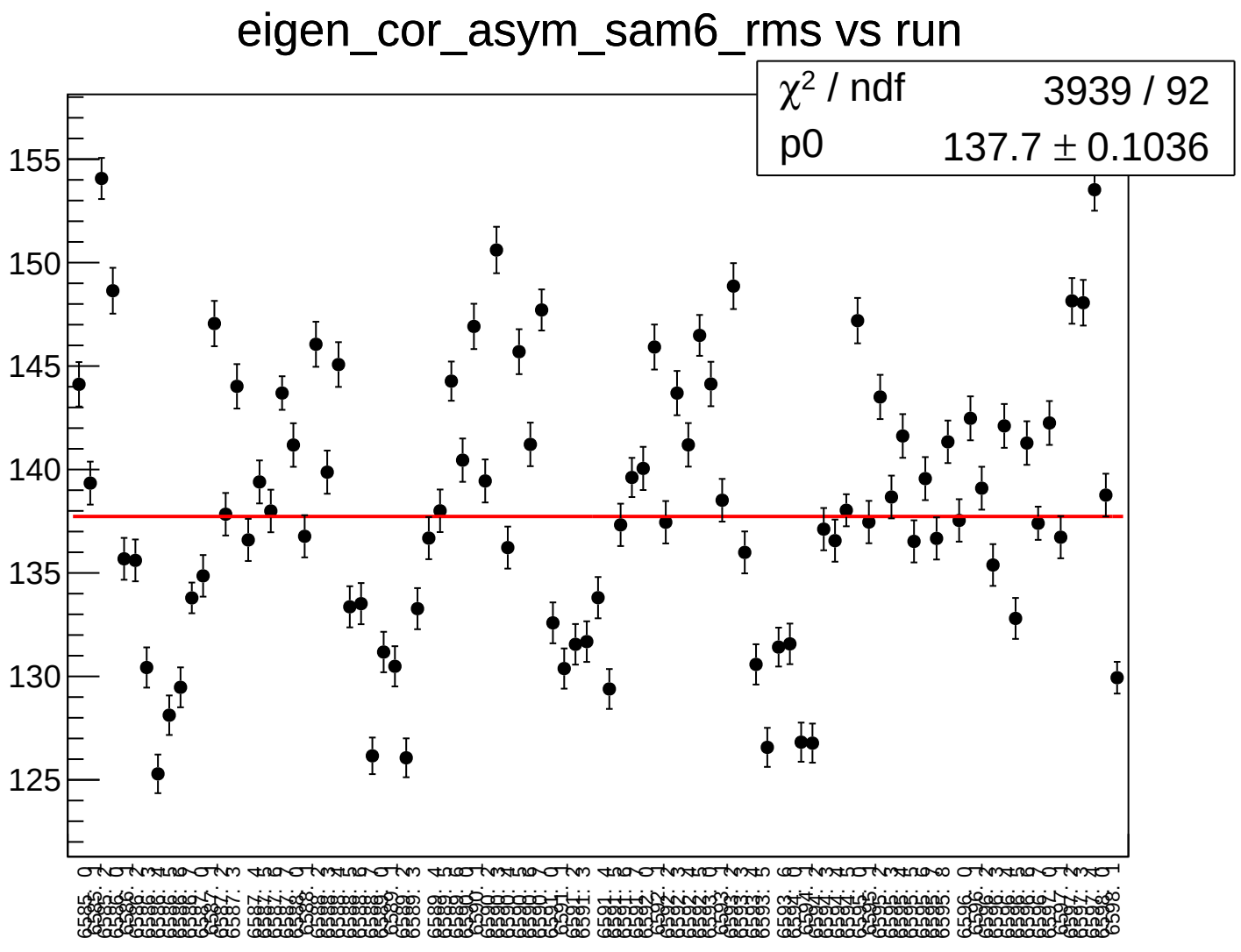

cor_asym_sam6_rms vs run
χ² / ndf 3939 / 92
p0 137.7 ± 0.1036
155
150
145
140
135
130
125

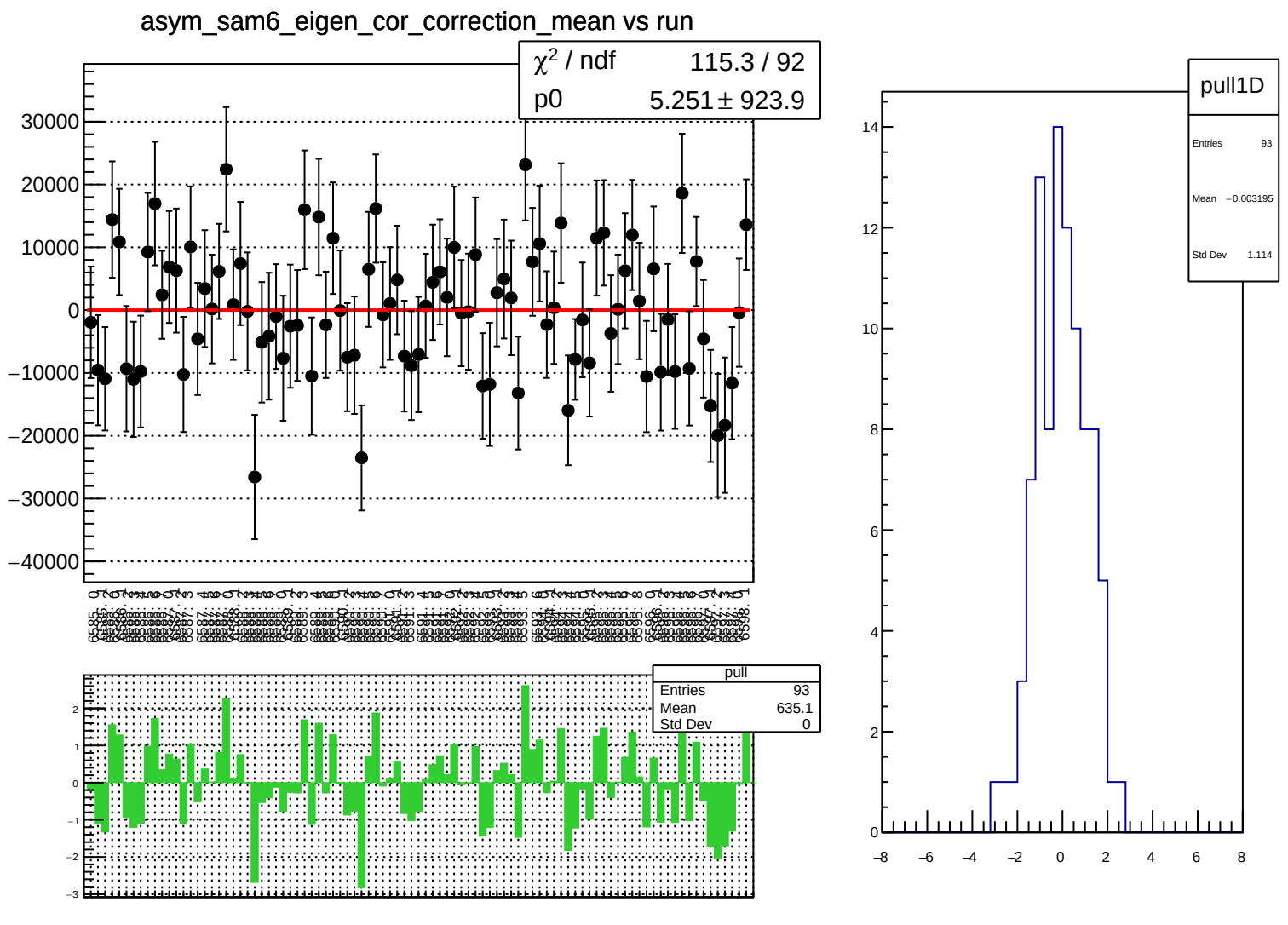

asym_sam6_cor_correction_mean vs run
χ² / ndf 115.3 / 92
p0 5.251 ± 923.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 635.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003195
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

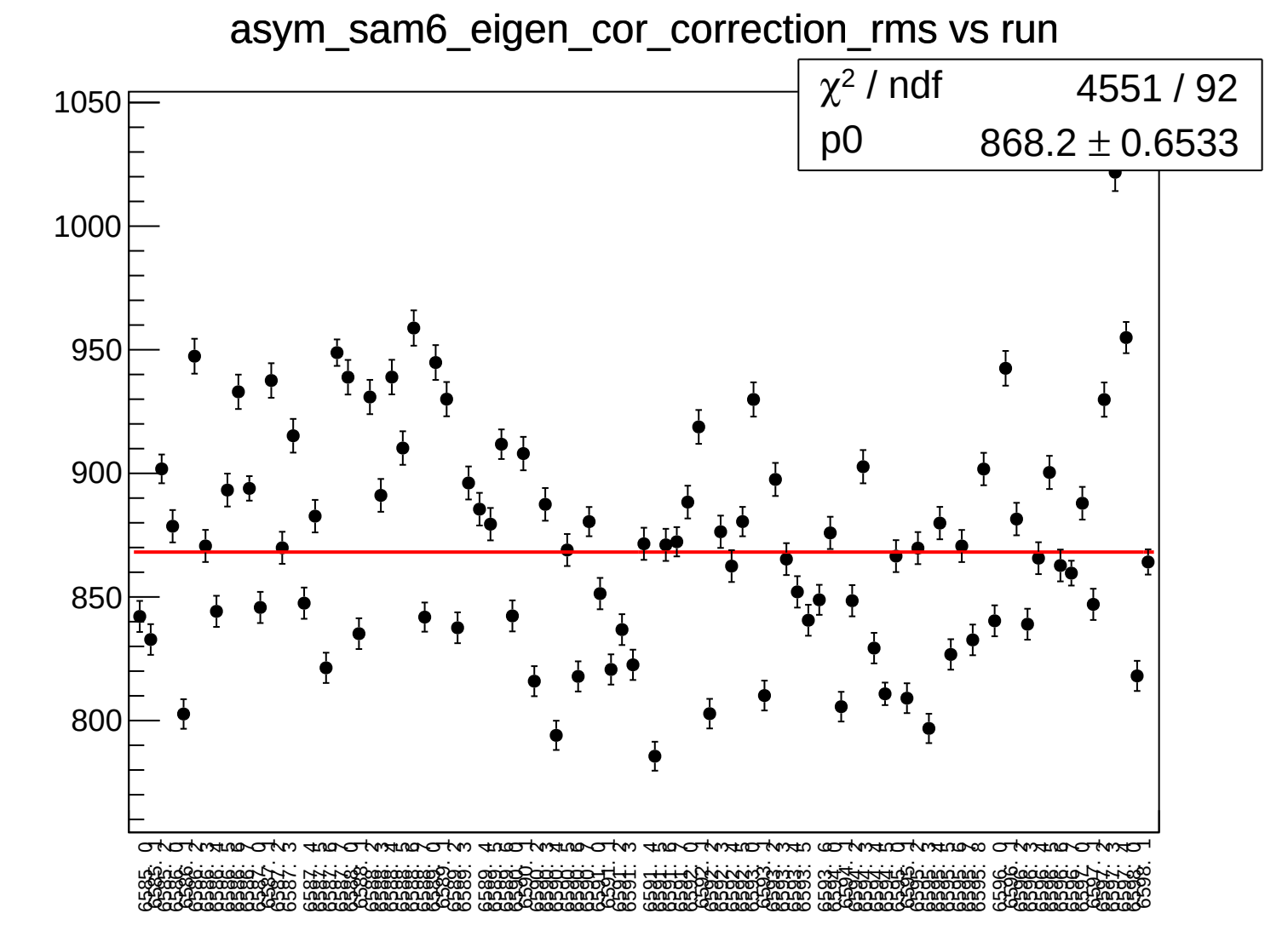

asym_sam6_cor_correction_rms vs run
χ² / ndf 4551 / 92
p0 868.2 ± 0.6533
1050
1000
950
900
850
800

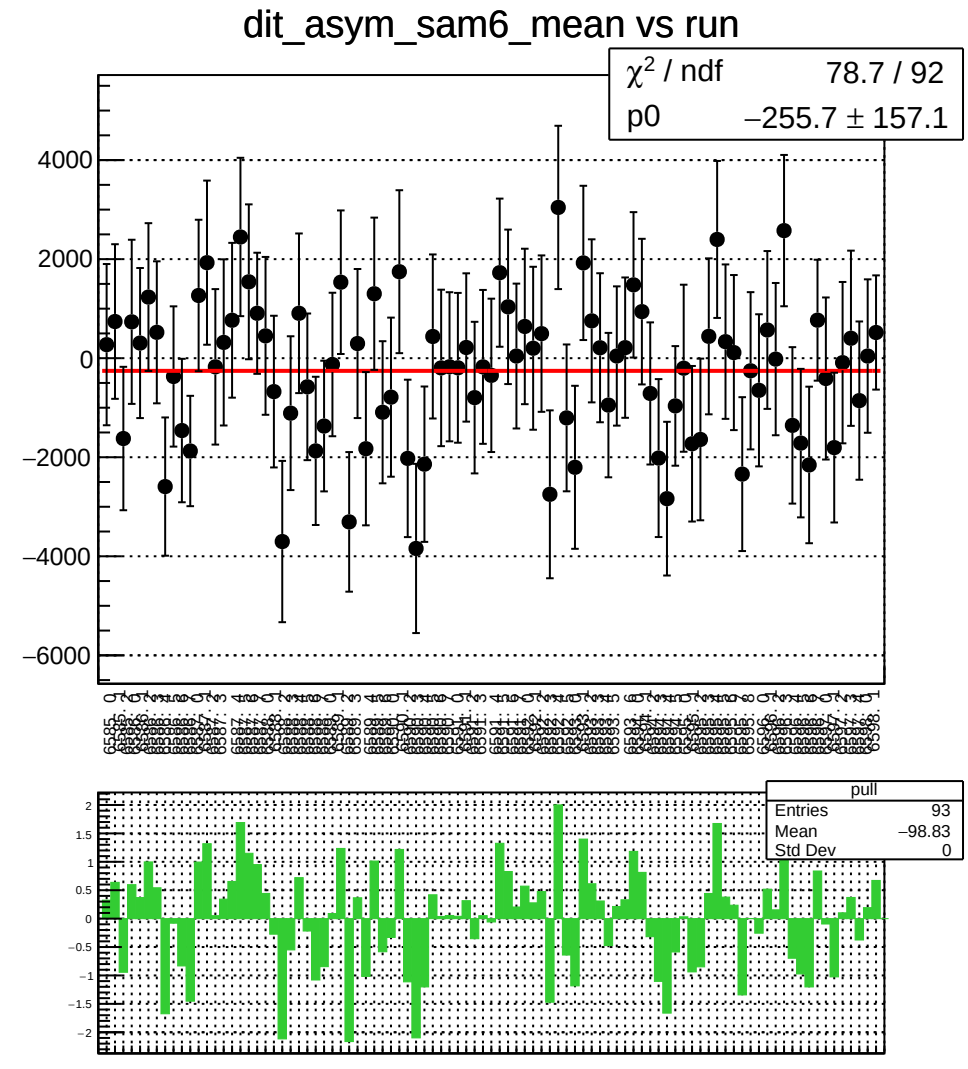

eigen_cor_asym_sam6_mean vs run
χ² / ndf 72.76 / 92
p0 −252 ± 146.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 213
Std Dev 164.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

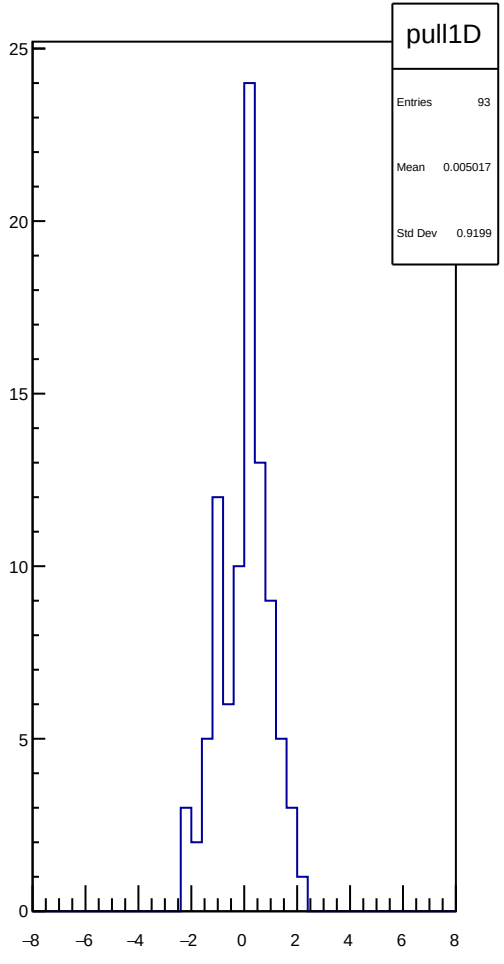

pull1D
Entries 93
Mean 0.001516
Std Dev 0.8845
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

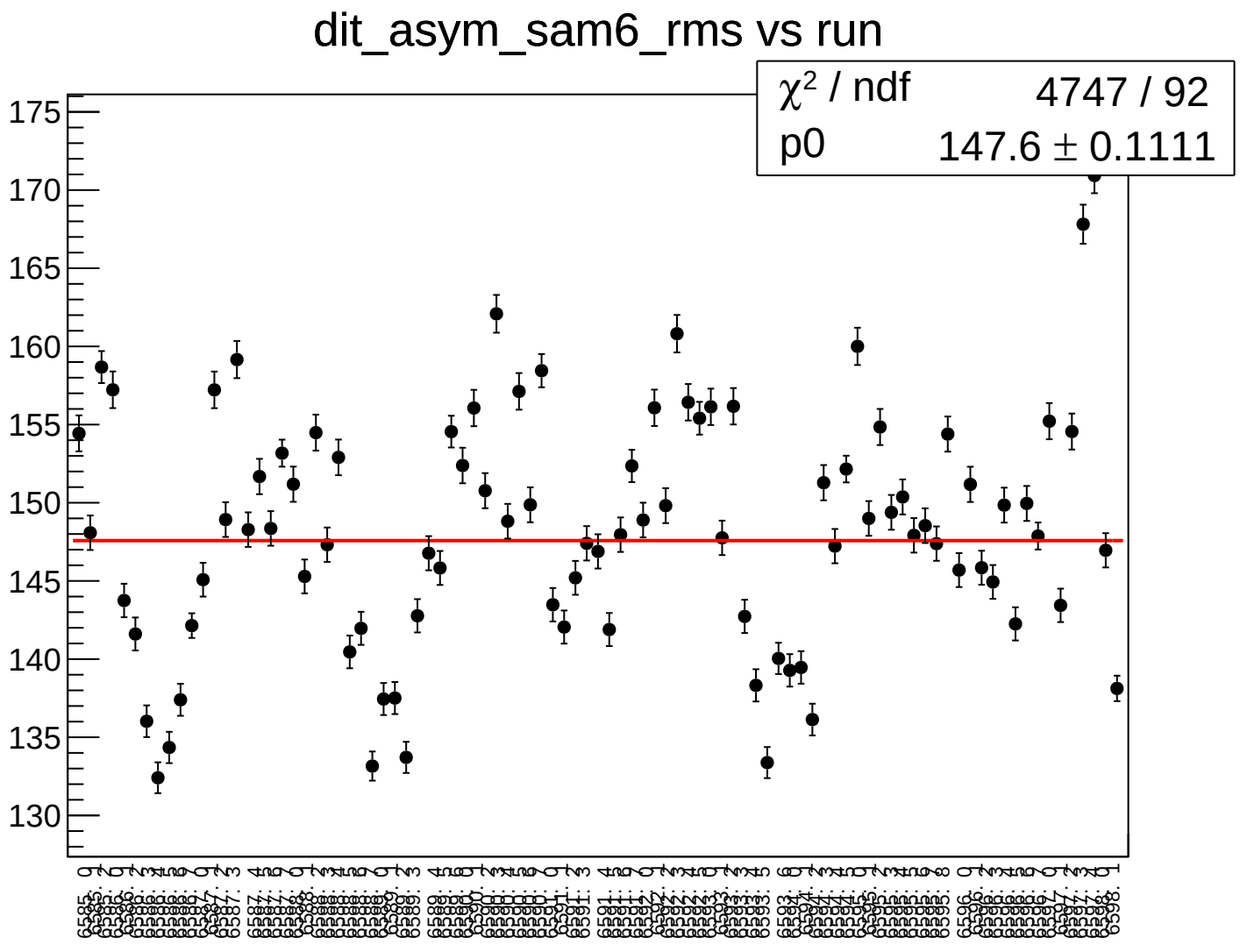

eigen_cor_asym_sam6_rms vs run
χ² / ndf 3939 / 92
p0 137.7 ± 0.1036
155
150
145
140
135
130
125

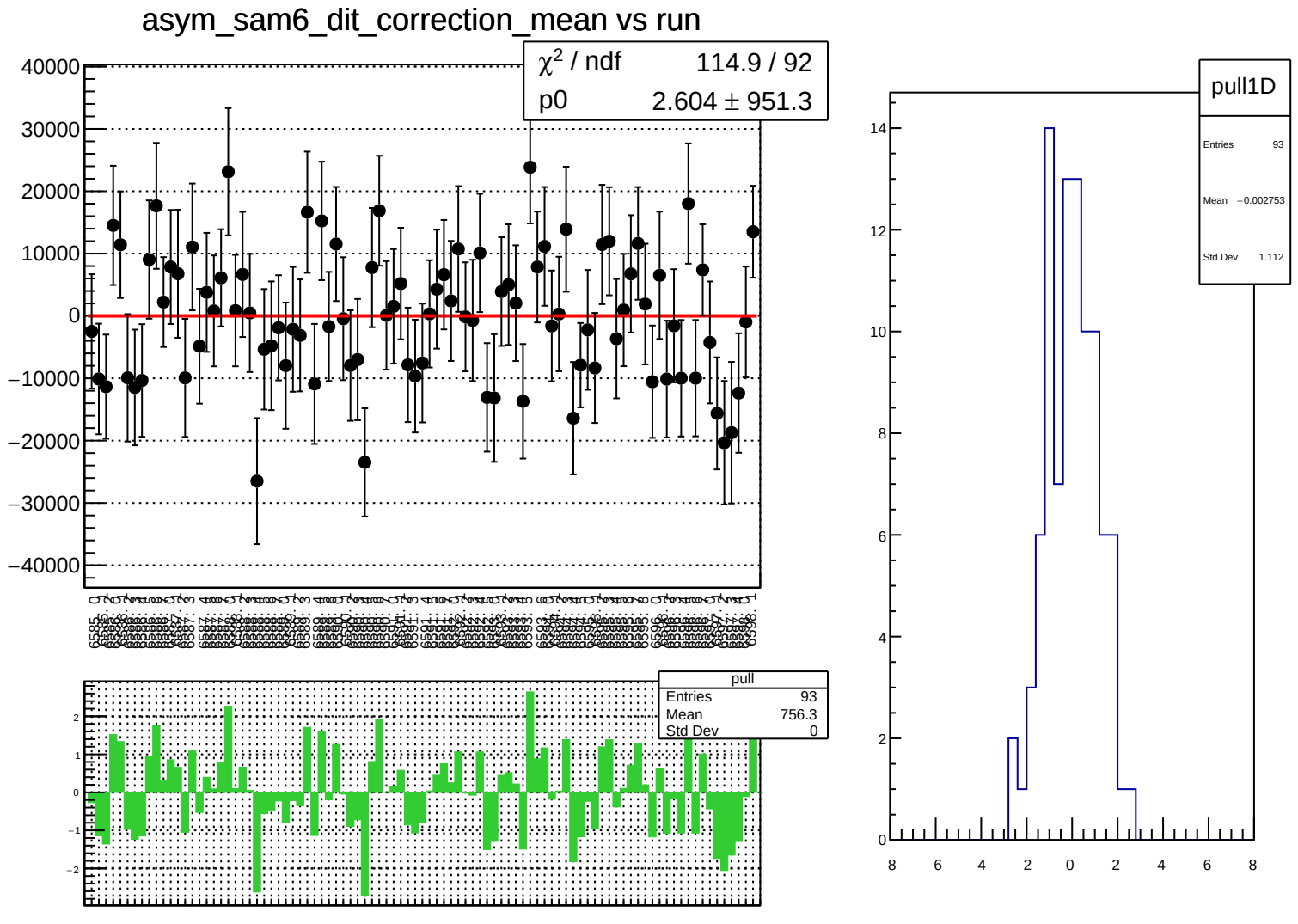

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 115.3 / 92
p0 5.251 ± 923.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 635.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003195
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

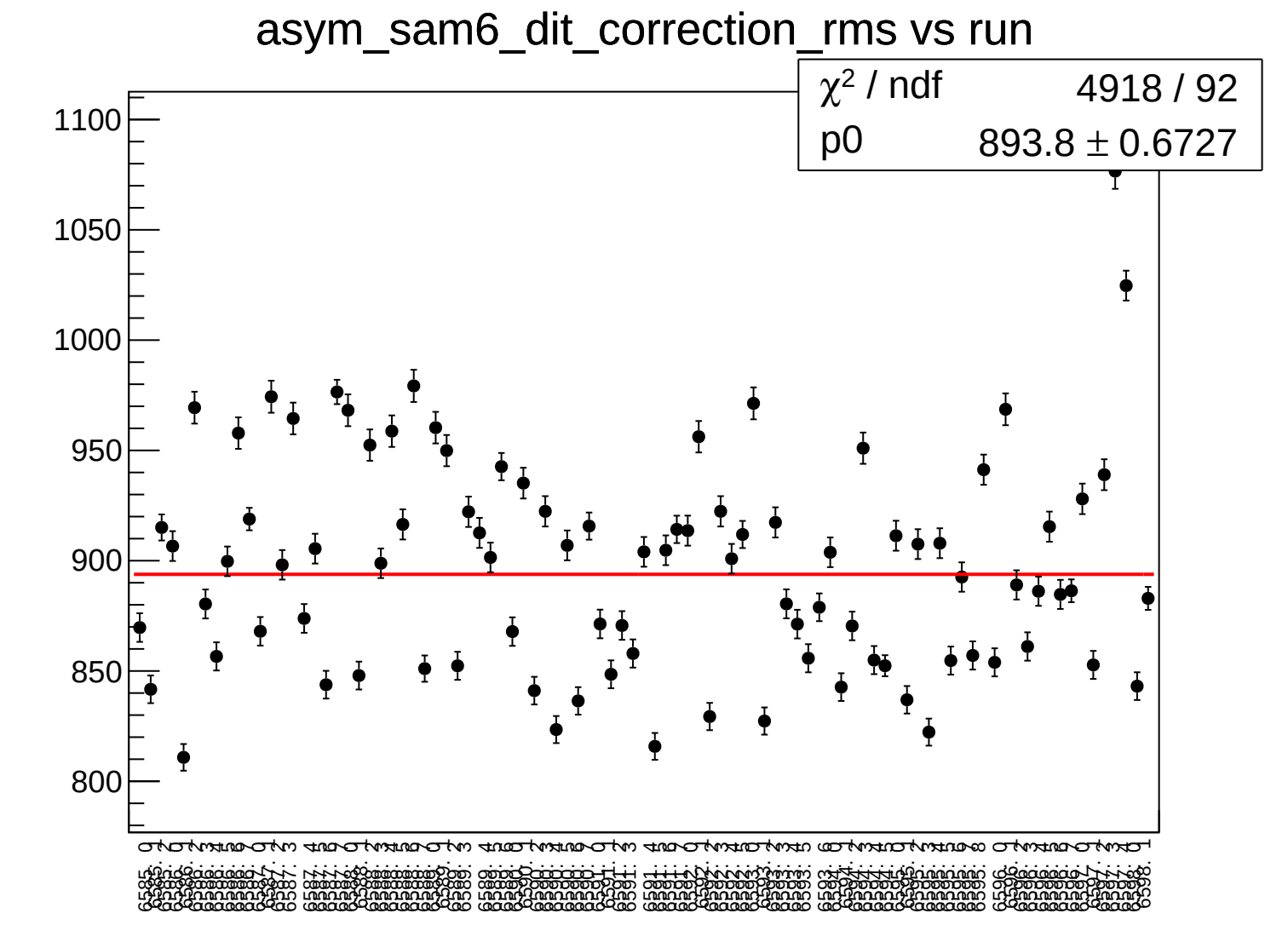

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 4551 / 92
p0 868.2 ± 0.6533
1050
1000
950
900
850
800

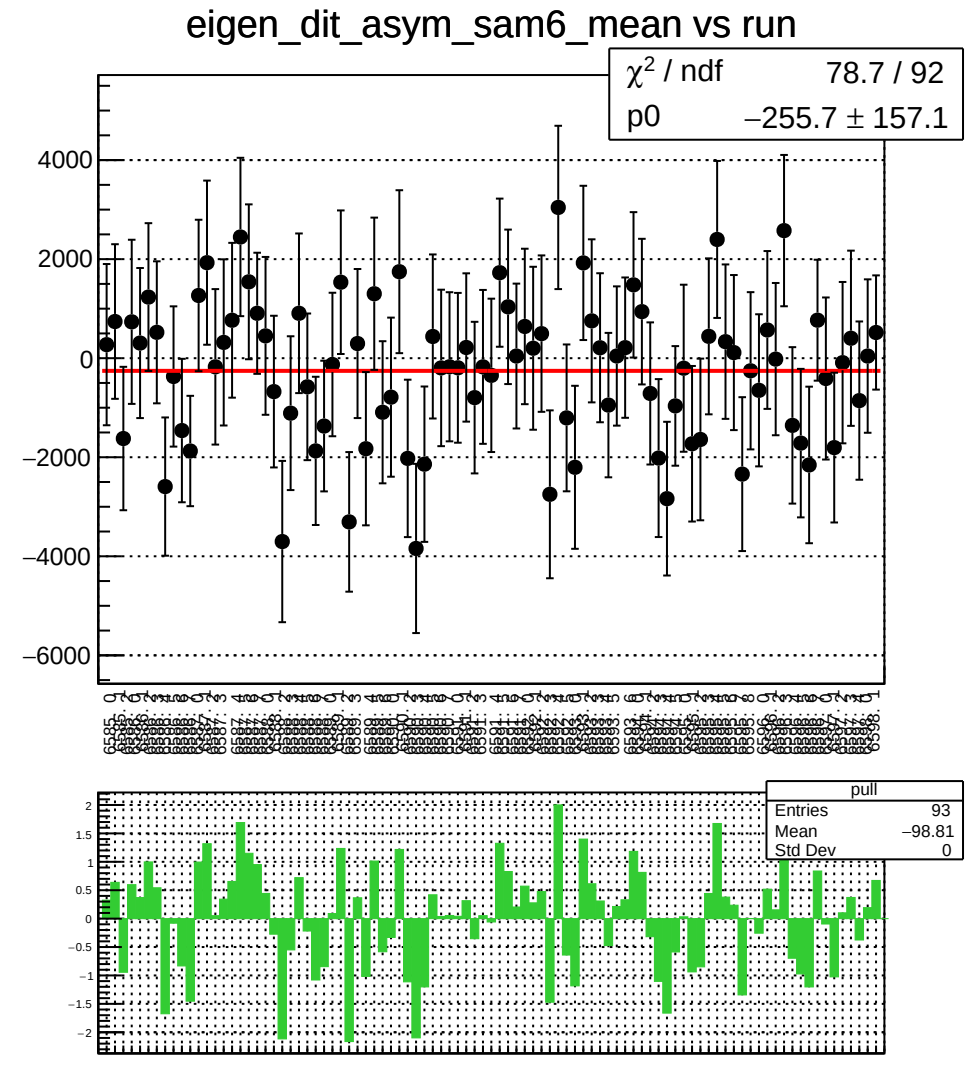

dit_asym_sam6_mean vs run
χ² / ndf 78.7 / 92
p0 −255.7 ± 157.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −98.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

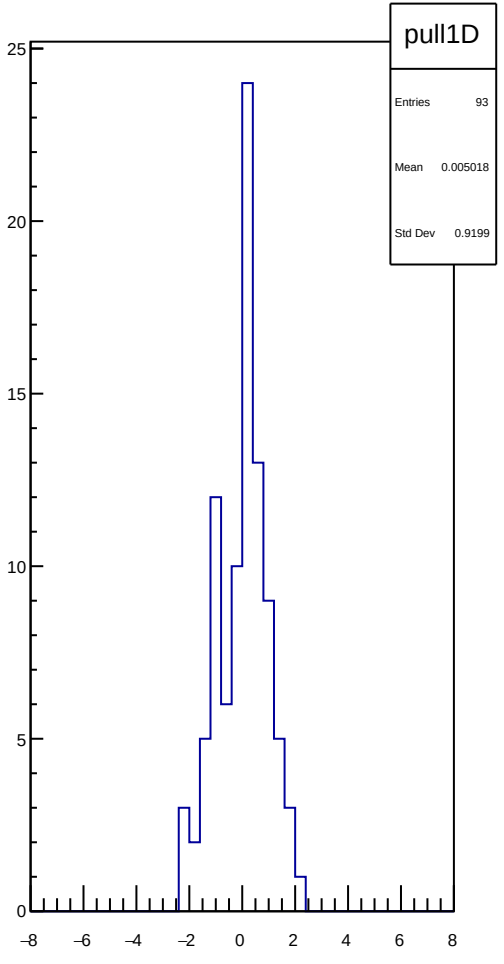

pull1D
Entries 93
Mean 0.005017
Std Dev 0.9199
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

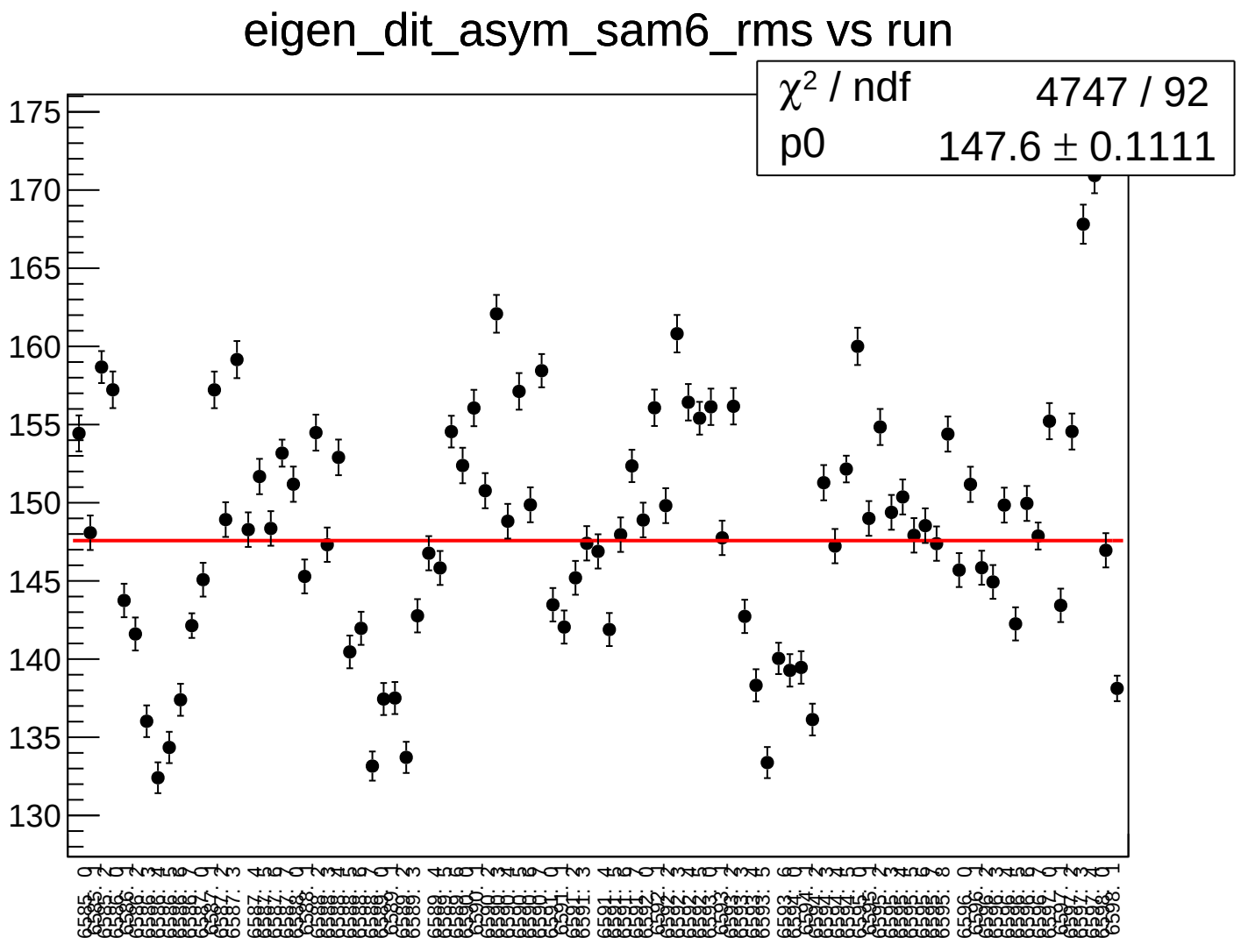

dit_asym_sam6_rms vs run
χ² / ndf 4747 / 92
p0 147.6 ± 0.1111
175
170
165
160
155
150
145
140
135
130

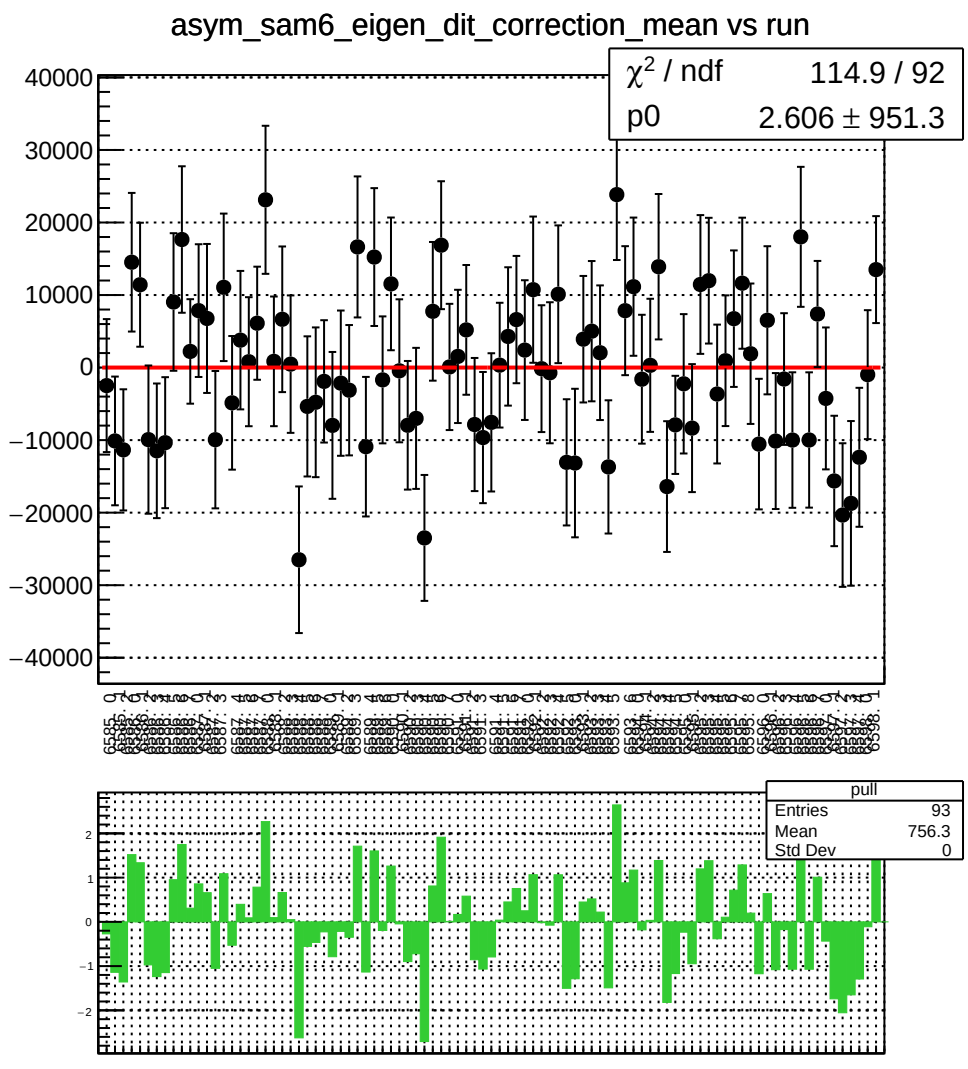

asym_sam6_dit_correction_mean vs run
χ² / ndf 114.9 / 92
p0 2.604 ± 951.3
pull
Entries 93
Mean 756.3
Std Dev 0
pull1D
Entries 93
Mean −0.002753
Std Dev 1.112

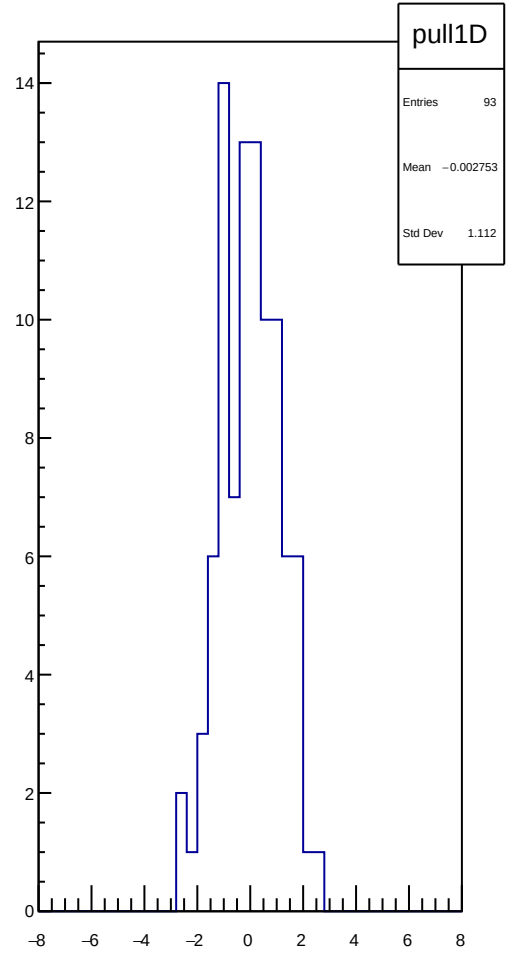

asym_sam6_dit_correction_rms vs run
χ² / ndf 4918 / 92
p0 893.8 ± 0.6727
1100
1050
1000
950
900
850
800

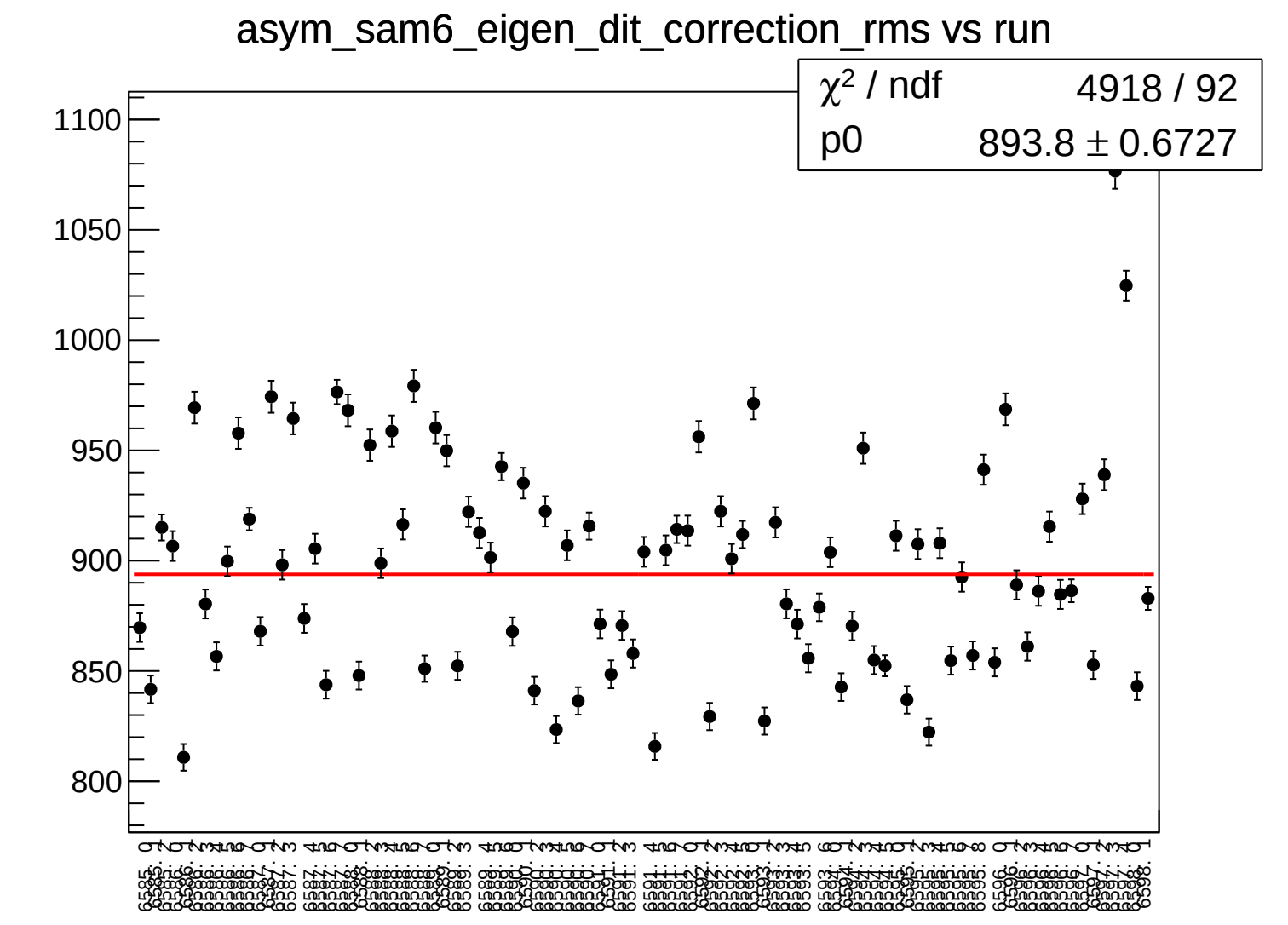

eigen_dit_asym_sam6_mean vs run
χ² / ndf 78.7 / 92
p0 −255.7 ± 157.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −98.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

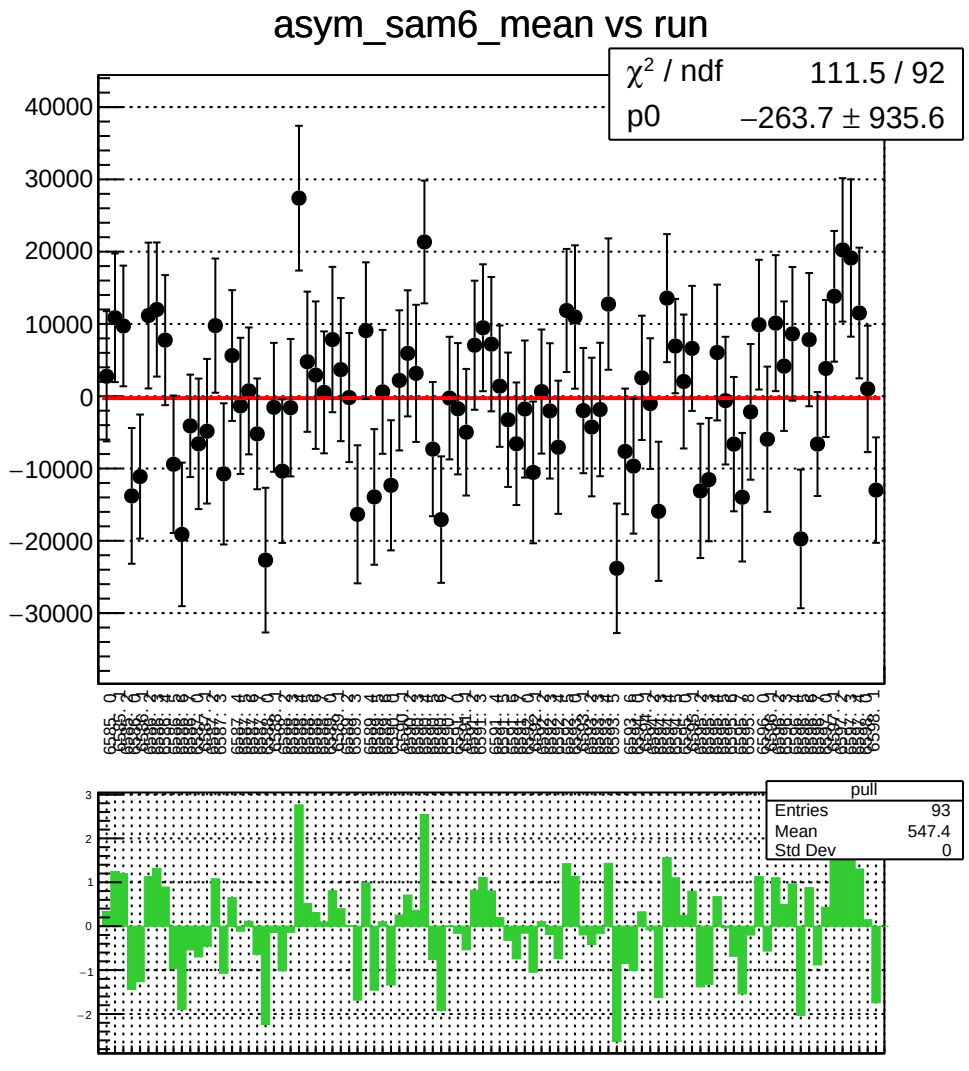

pull1D
Entries 93
Mean 0.005018
Std Dev 0.9199
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

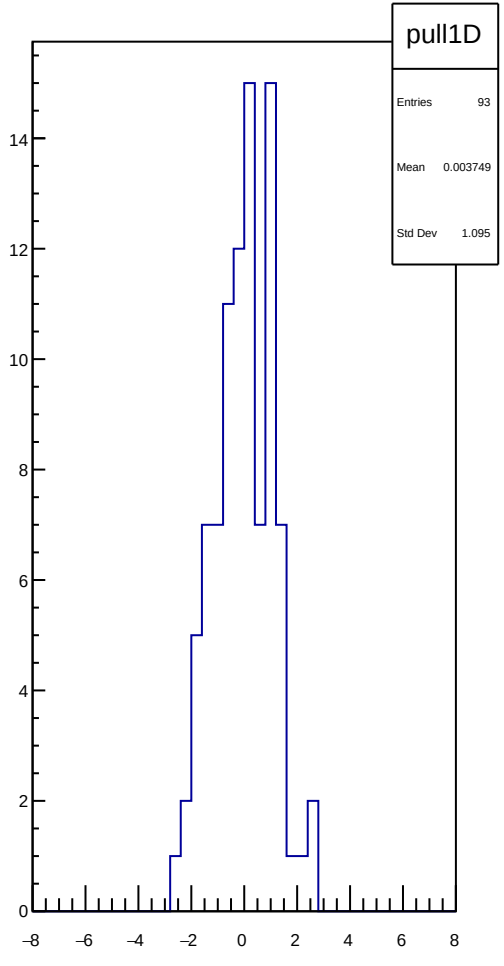

eigen_dit_asym_sam6_rms vs run
χ² / ndf 4747 / 92
p0 147.6 ± 0.1111
175
170
165
160
155
150
145
140
135
130

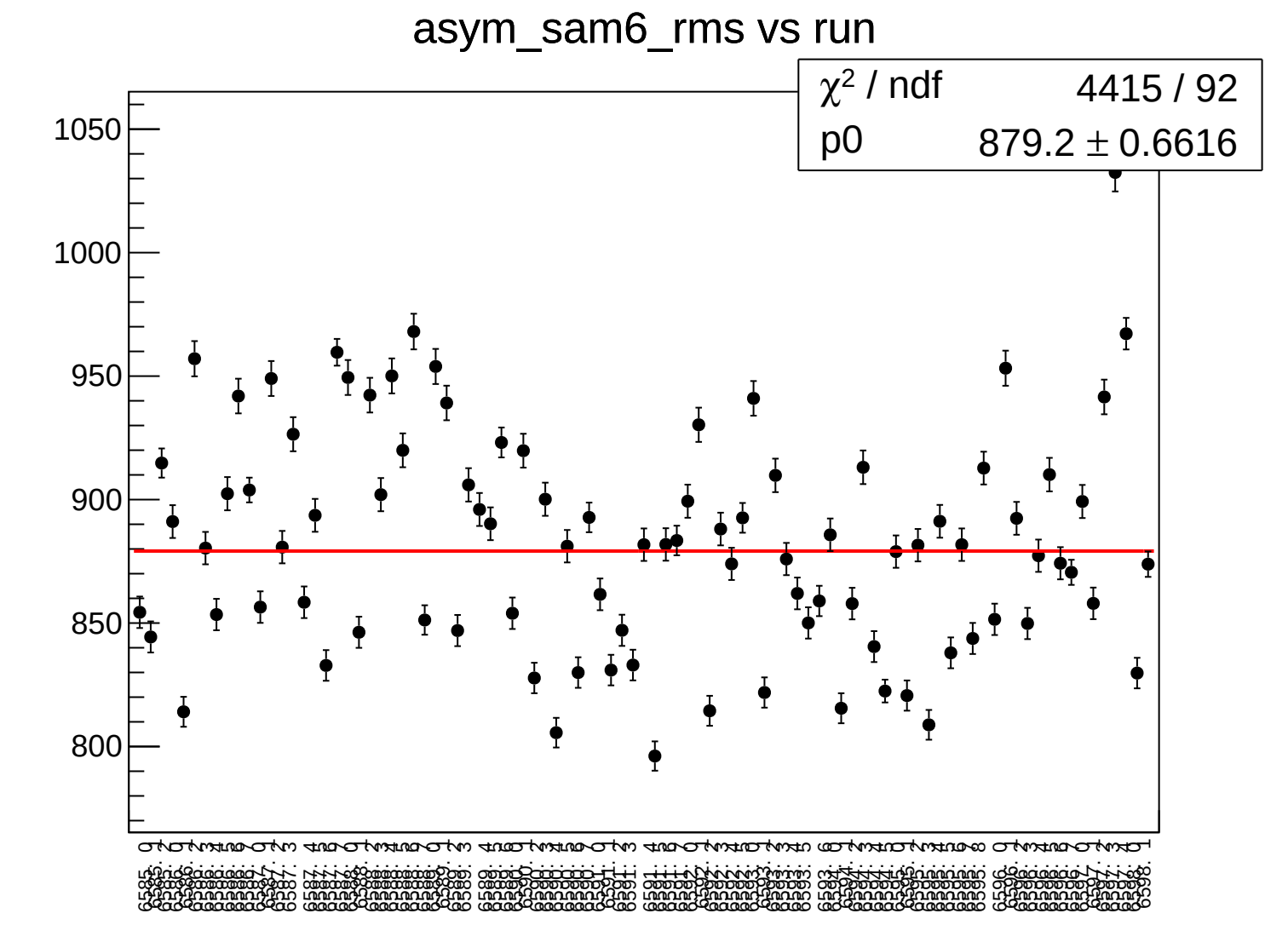

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 114.9 / 92
p0 2.606 ± 951.3
pull
Entries 93
Mean 756.3
Std Dev 0

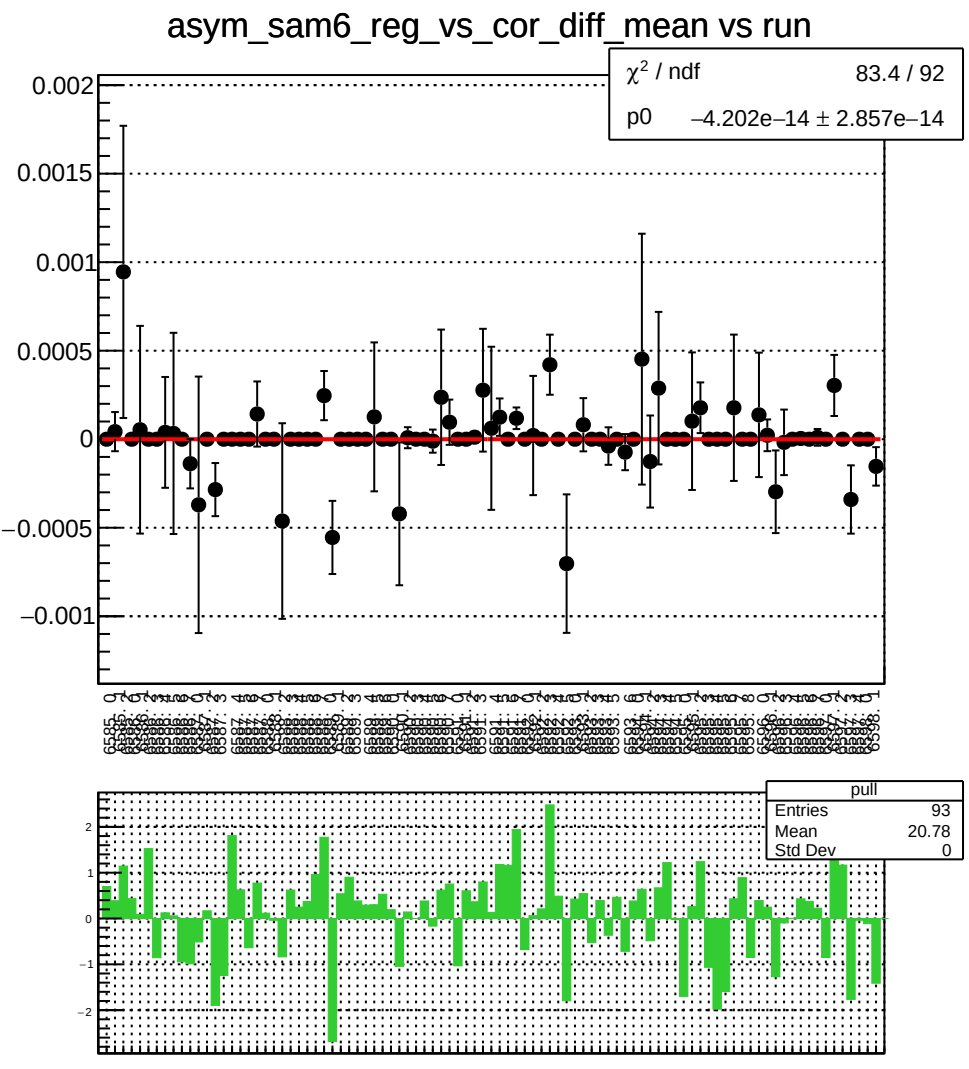

pull1D
Entries 93
Mean −0.002753
Std Dev 1.112

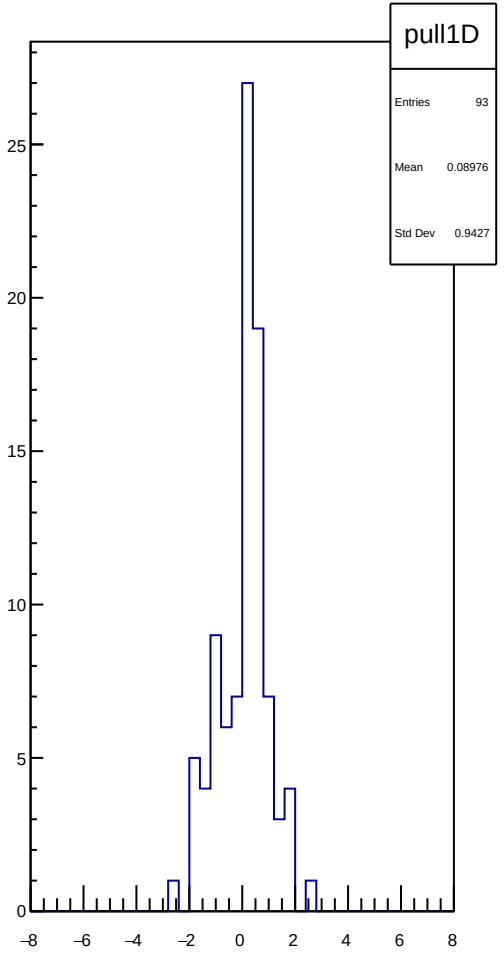

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 4918 / 92
p0 893.8 ± 0.6727
1100
1050
1000
950
900
850
800

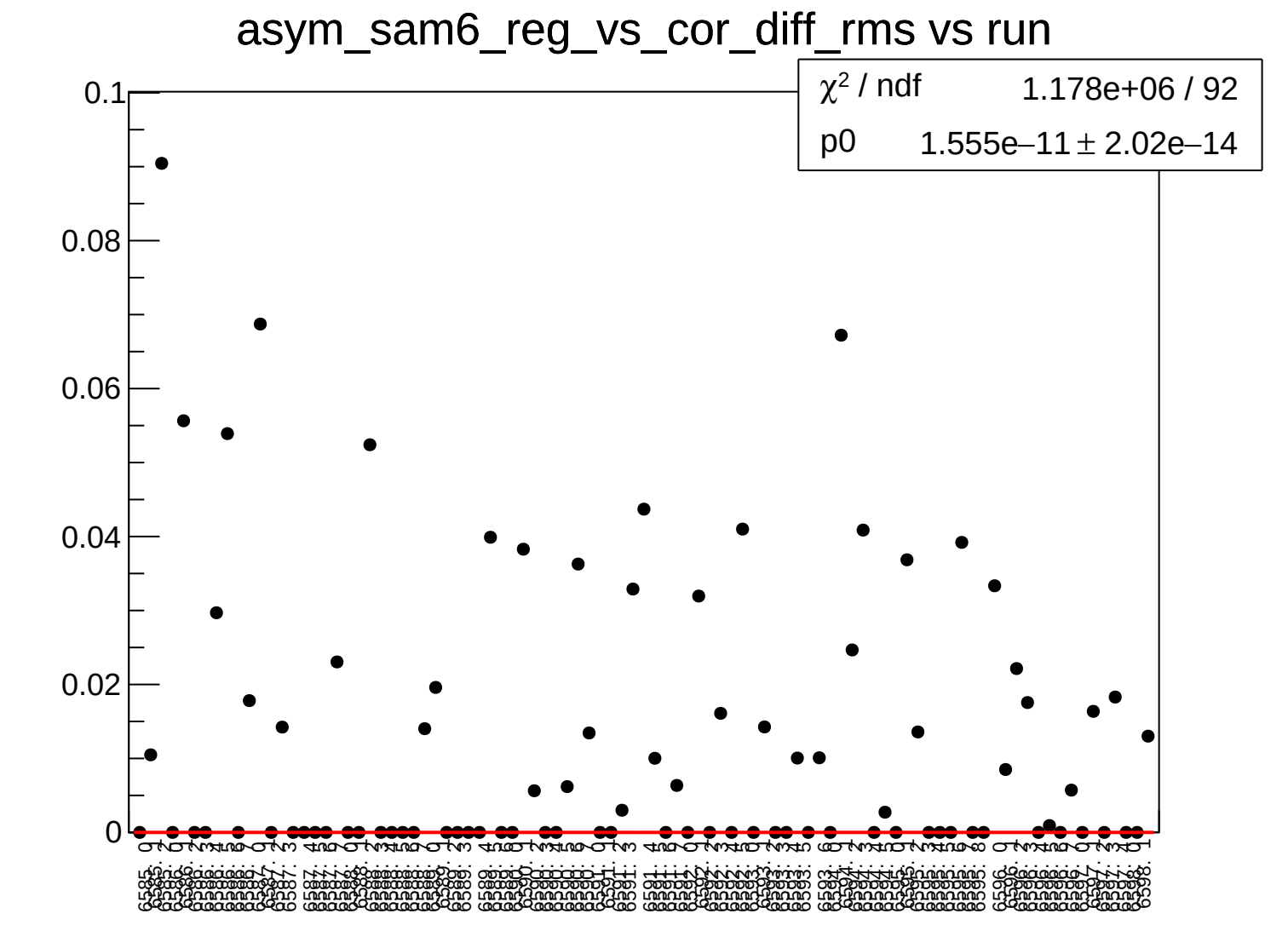

asym_sam6_mean vs run
χ² / ndf 111.5 / 92
p0 −263.7 ± 935.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 547.4
Std Dev 0
3
2
1
0
−1
−2

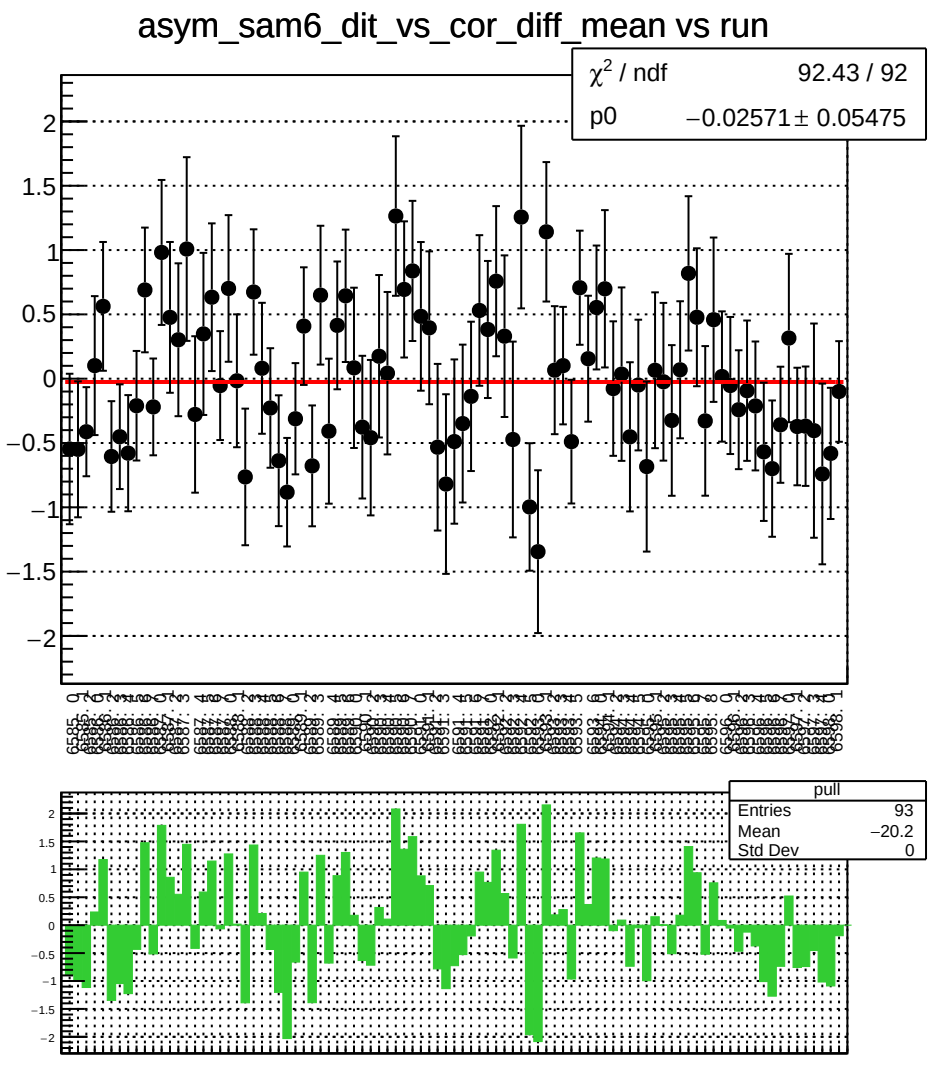

pull1D
Entries 93
Mean 0.003749
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

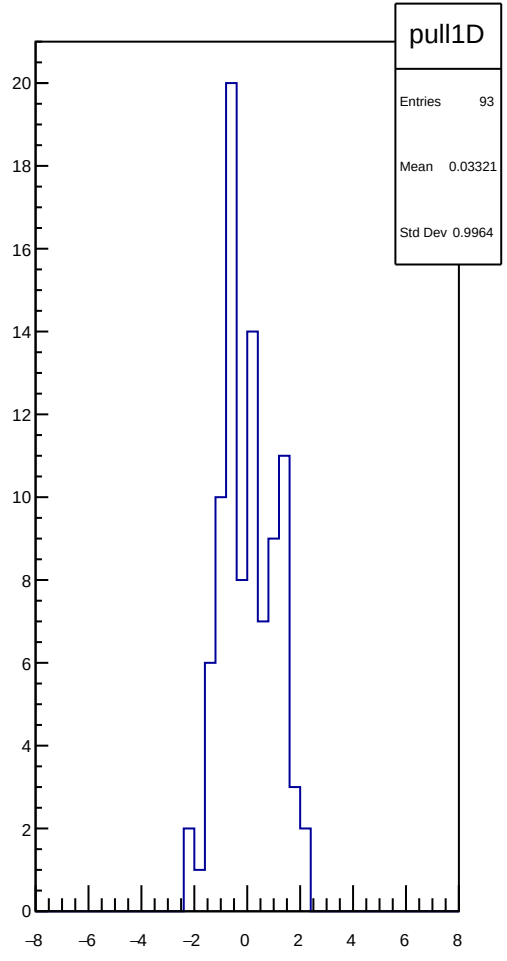

asym_sam6_rms vs run
χ² / ndf 4415 / 92
p0 879.2 ± 0.6616
1050
1000
950
900
850
800

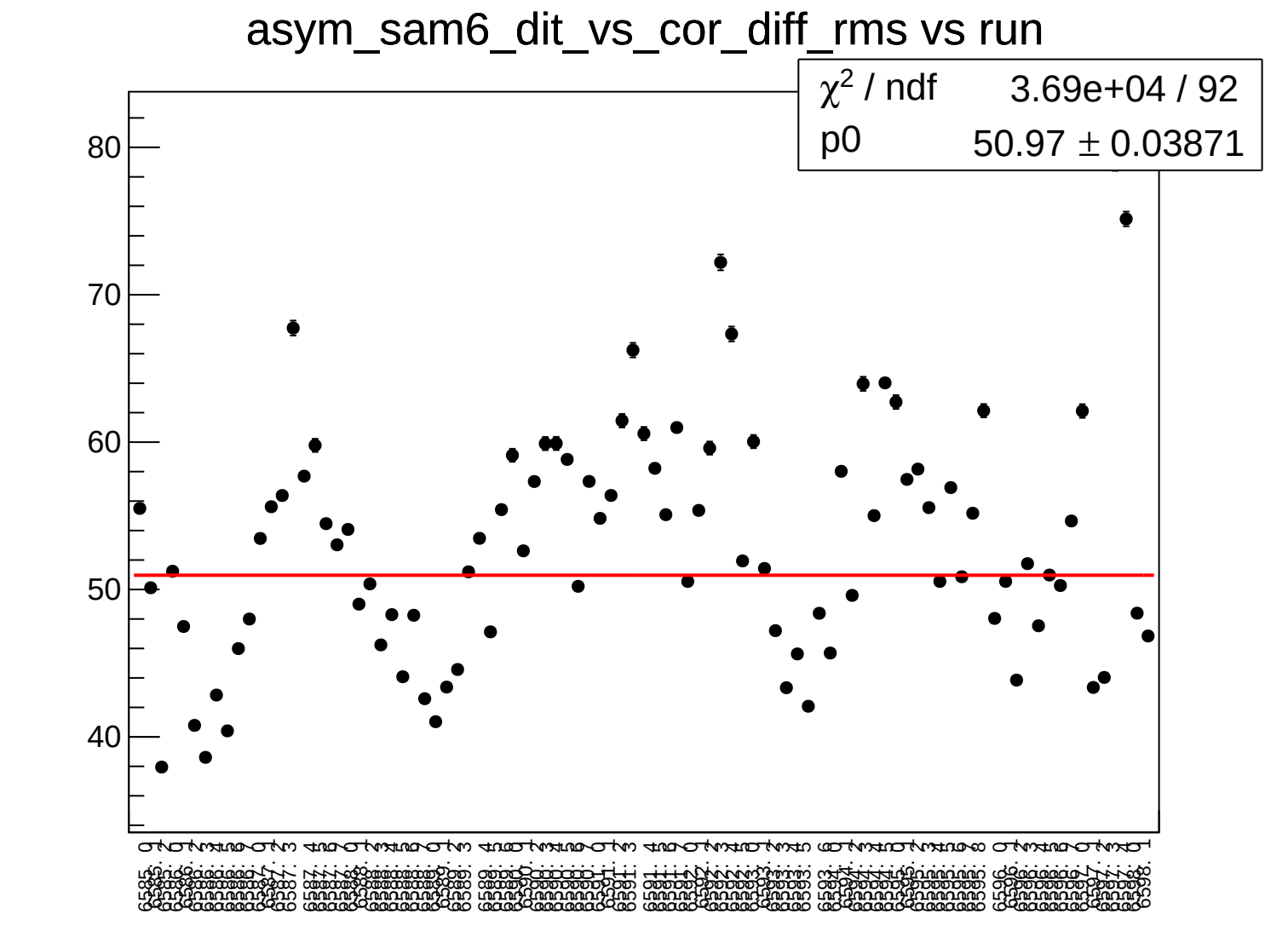

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 83.4 / 92
p0 −4.202e−14 ± 2.857e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 20.78
Std Dev 0
2
1
0
−1
−2

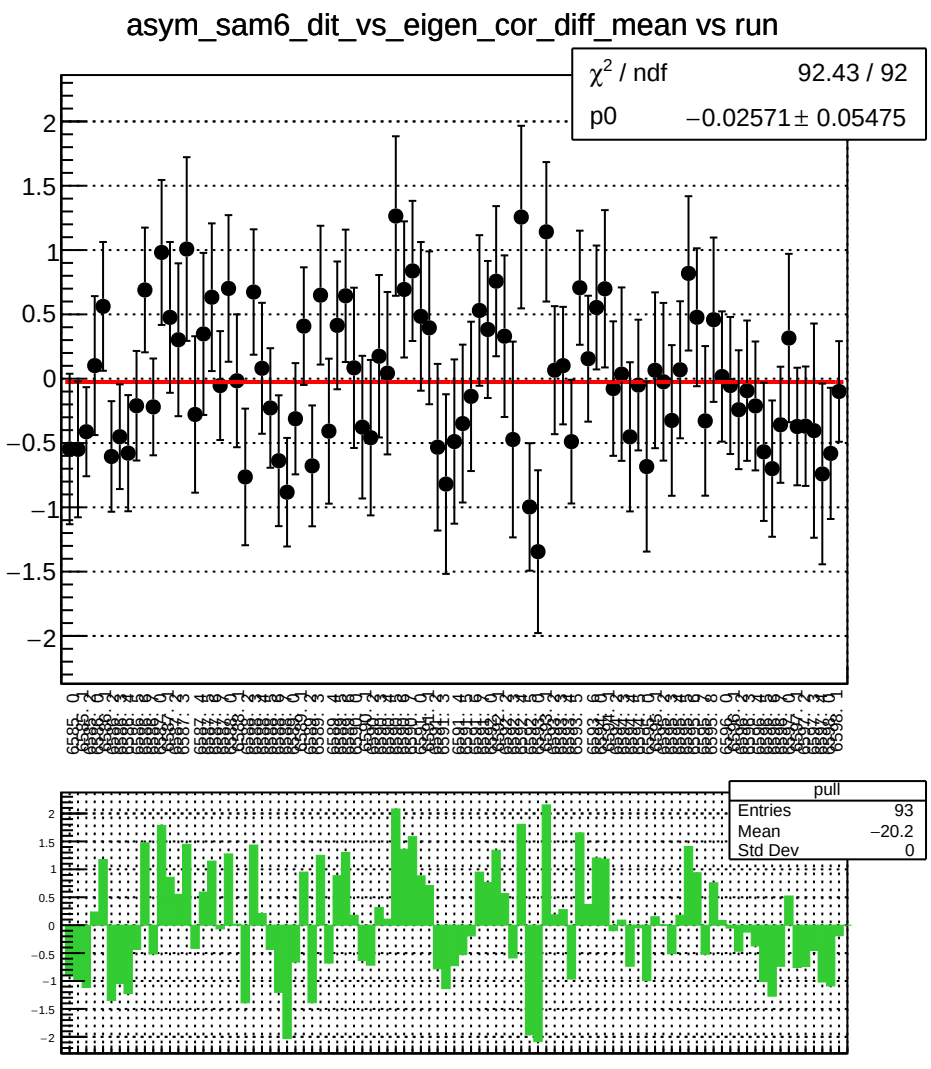

pull1D
Entries 93
Mean 0.08976
Std Dev 0.9427
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

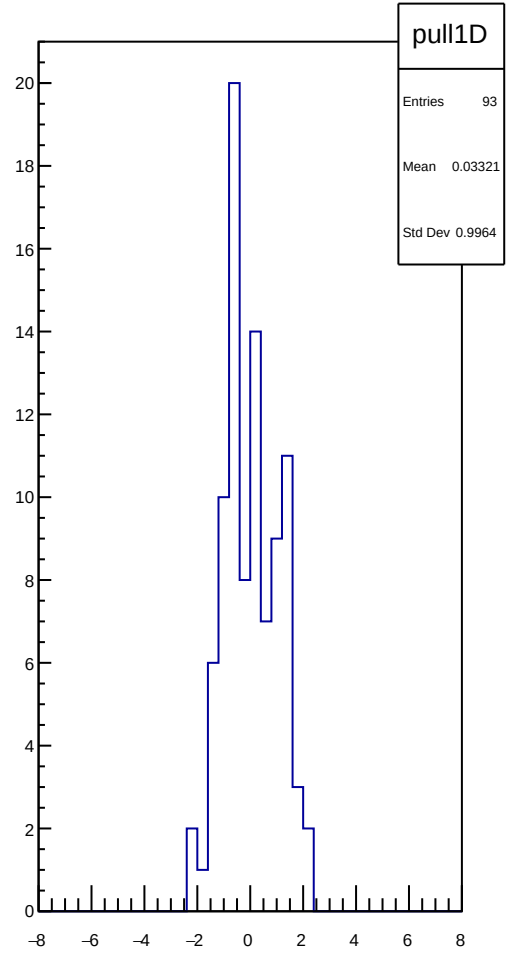

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.178e+06 / 92
p0 1.555e−11 ± 2.02e−14
0.1
0.08
0.06
0.04
0.02
0

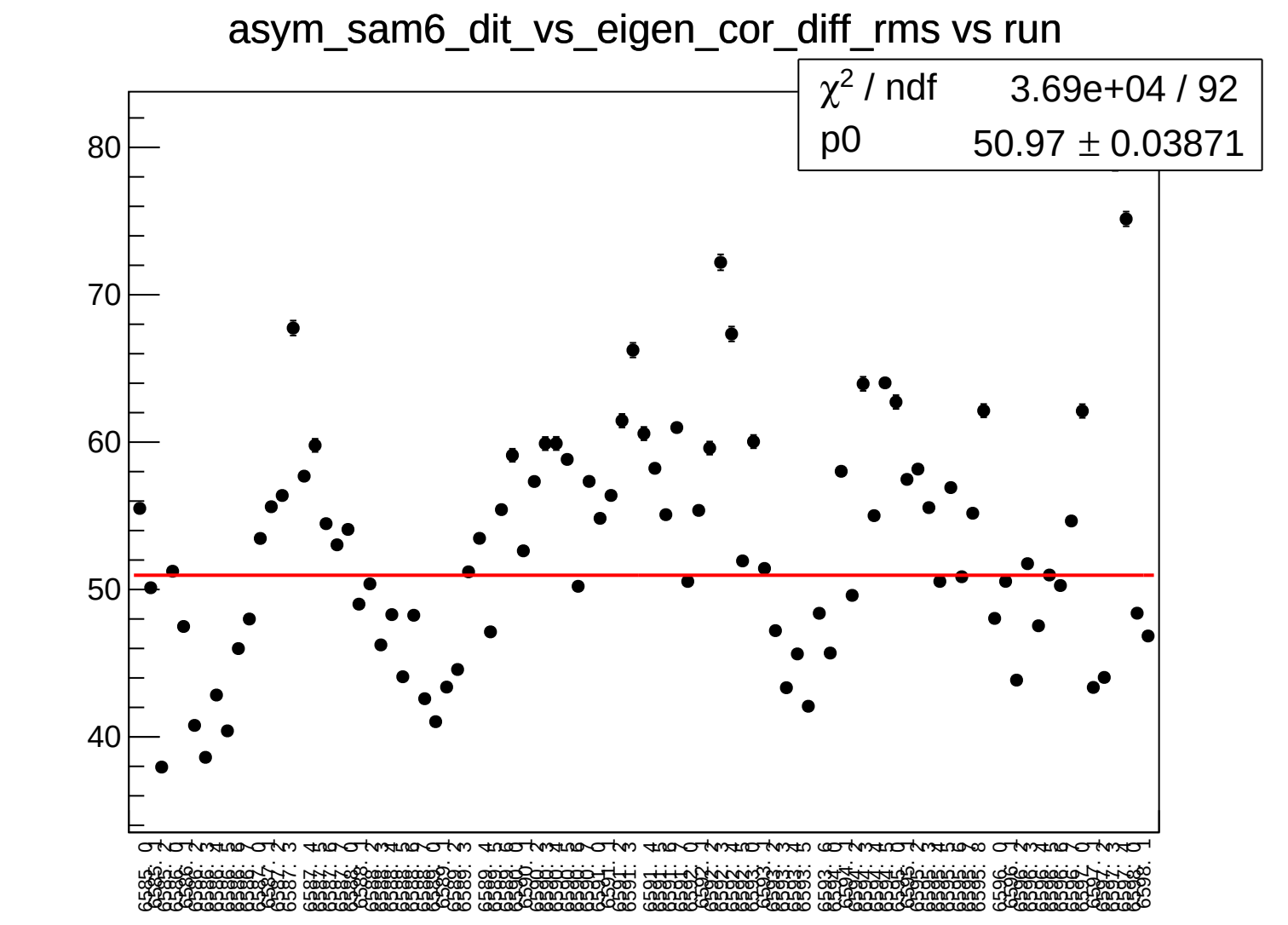

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 92.43 / 92
p0 −0.02571 ± 0.05475
pull
Entries 93
Mean −20.2
Std Dev 0

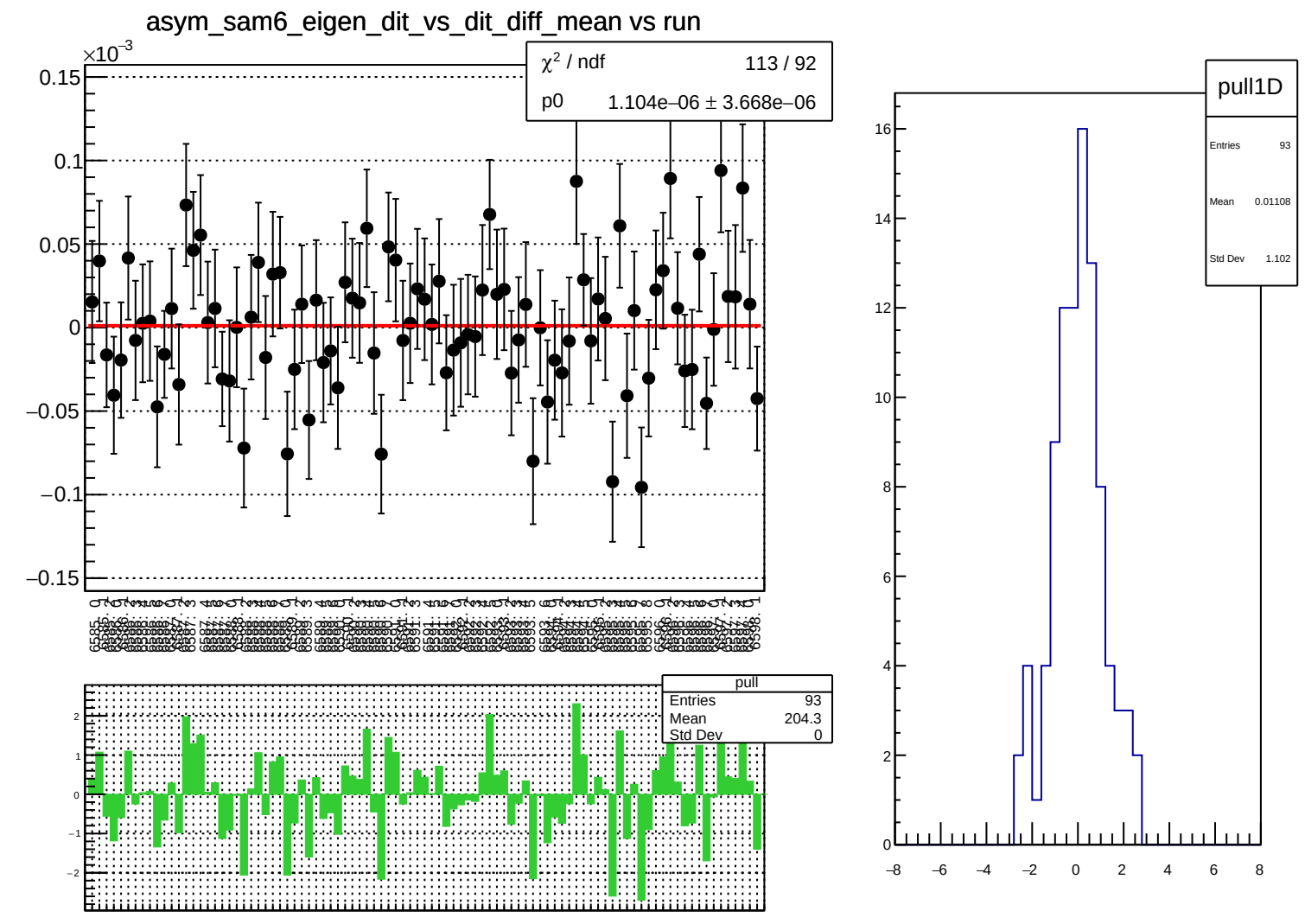

pull1D
Entries 93
Mean 0.03321
Std Dev 0.9964

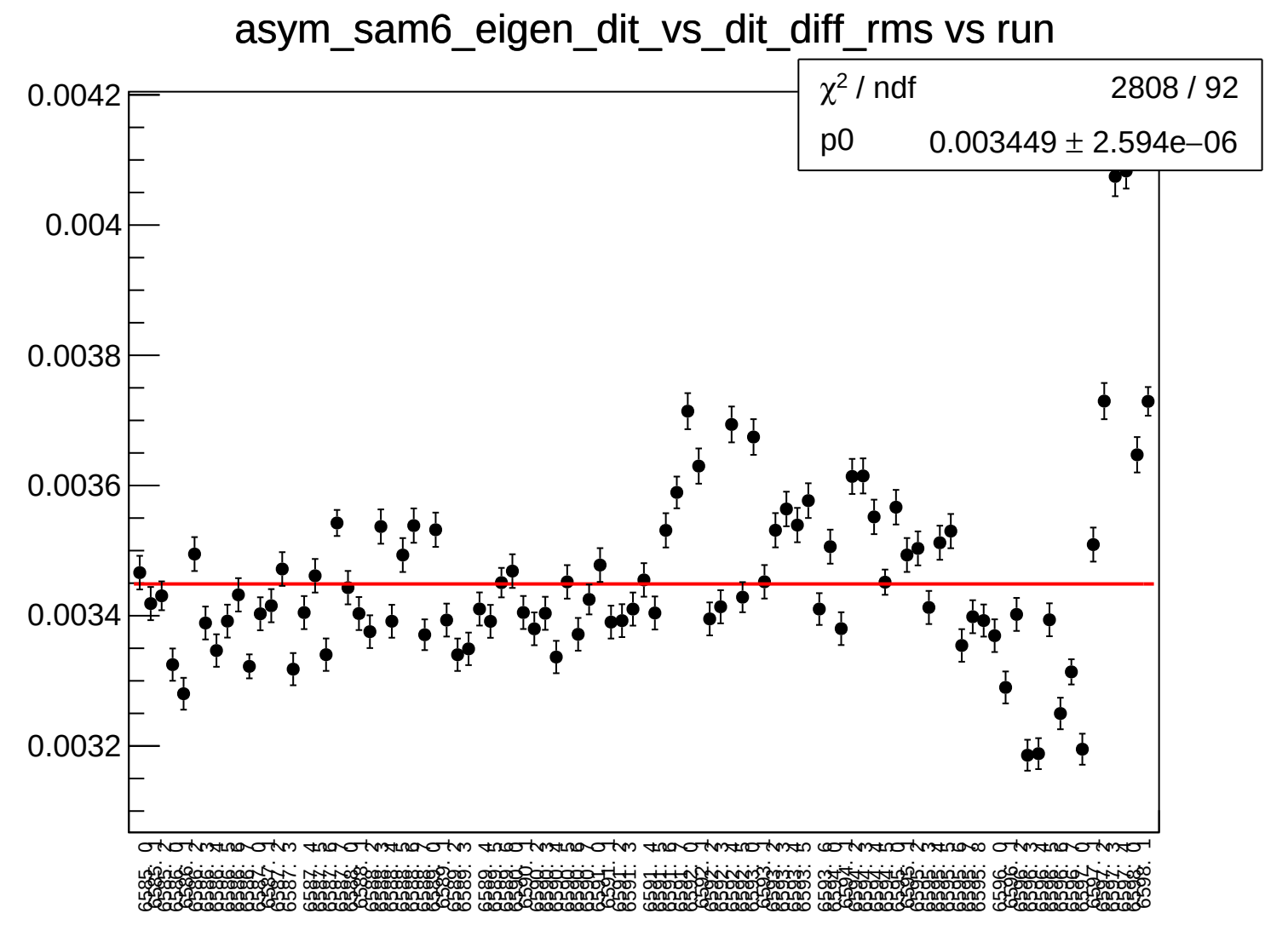

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 3.69e+04 / 92
p0 50.97 ± 0.03871
80
70
60
50
40

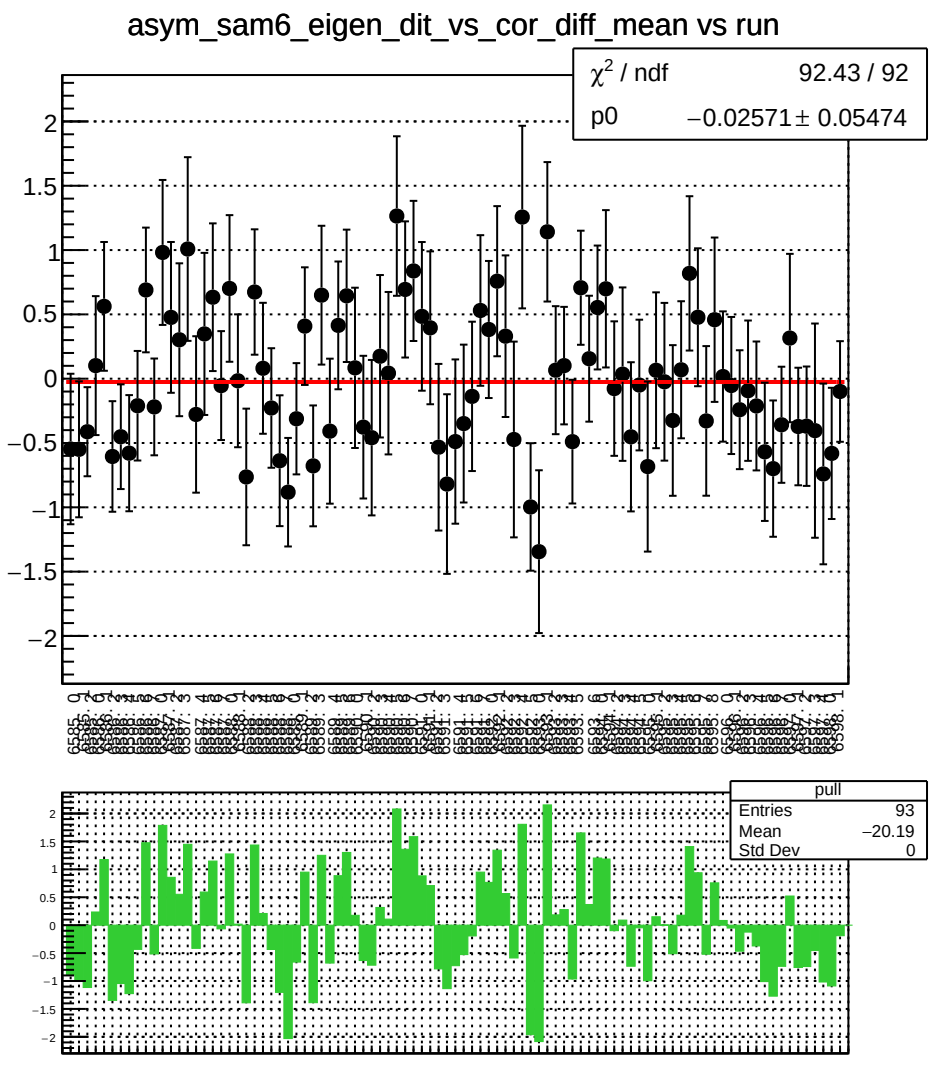

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.43 / 92
p0 −0.02571 ± 0.05475
pull
Entries 93
Mean −20.2
Std Dev 0

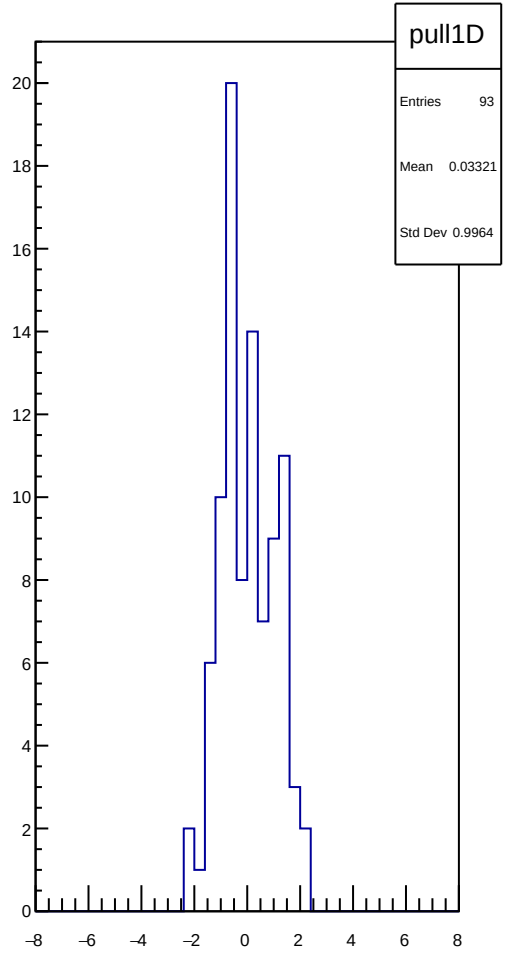

pull1D
Entries 93
Mean 0.03321
Std Dev 0.9964

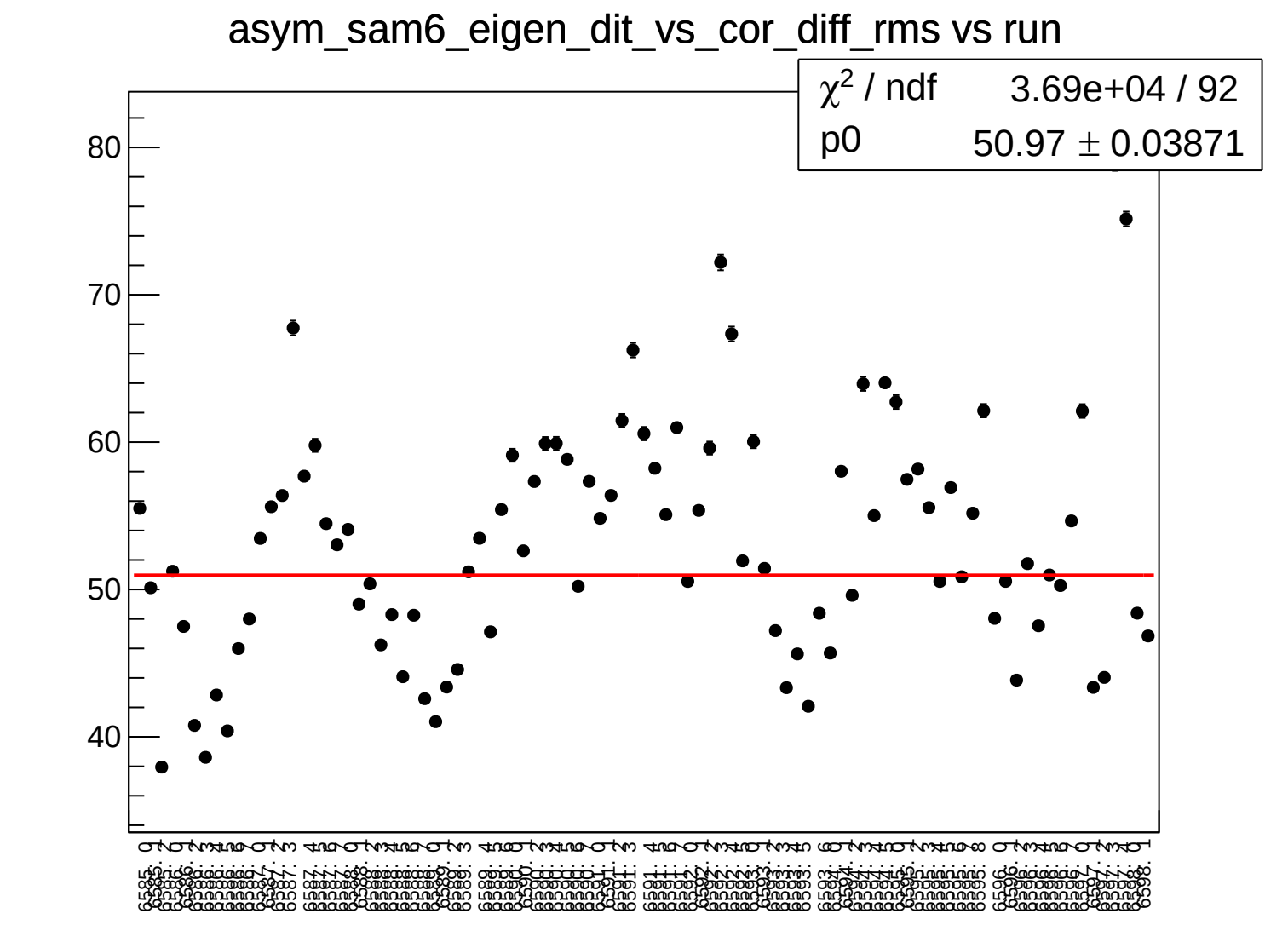

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.69e+04 / 92
p0 50.97 ± 0.03871
80
70
60
50
40

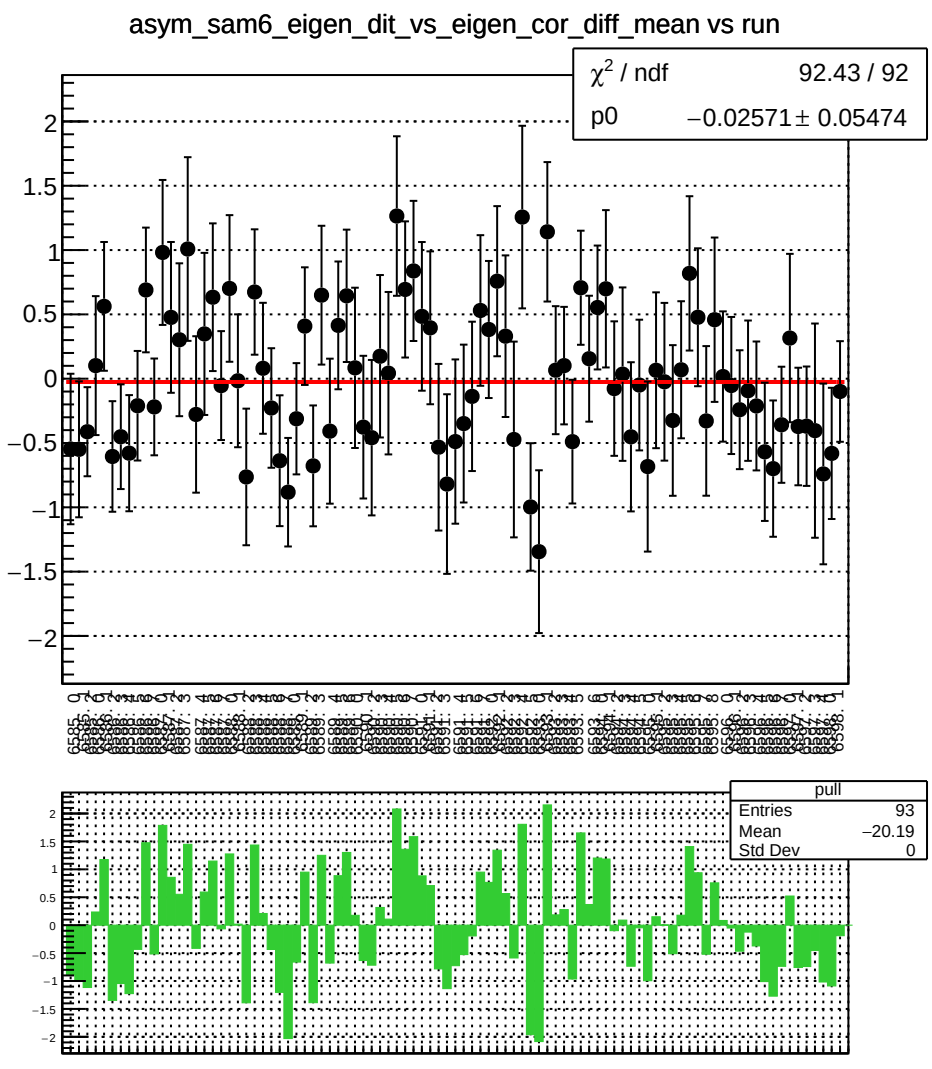

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 113 / 92
p0 1.104e−06 ± 3.668e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 204.3
Std Dev 0
pull1D
Entries 93
Mean 0.01108
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

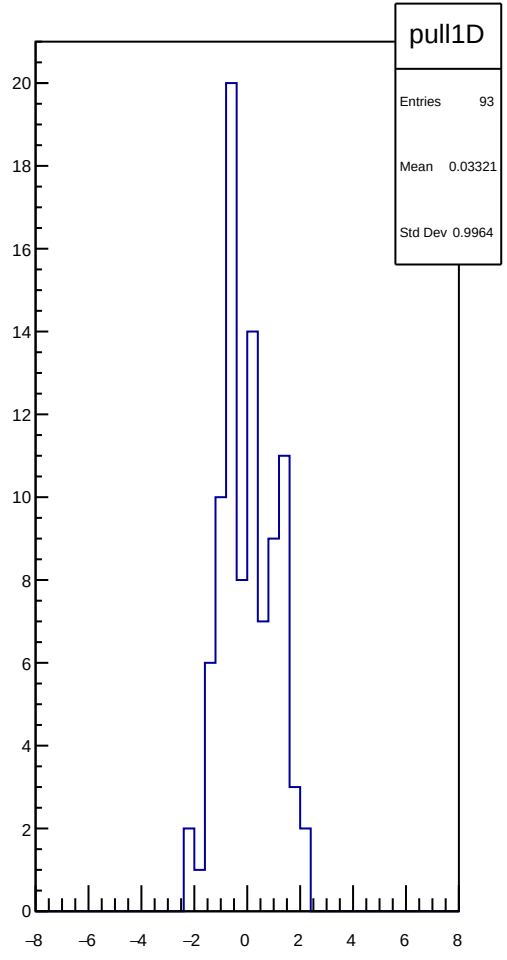

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2808 / 92
p0 0.003449 ± 2.594e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

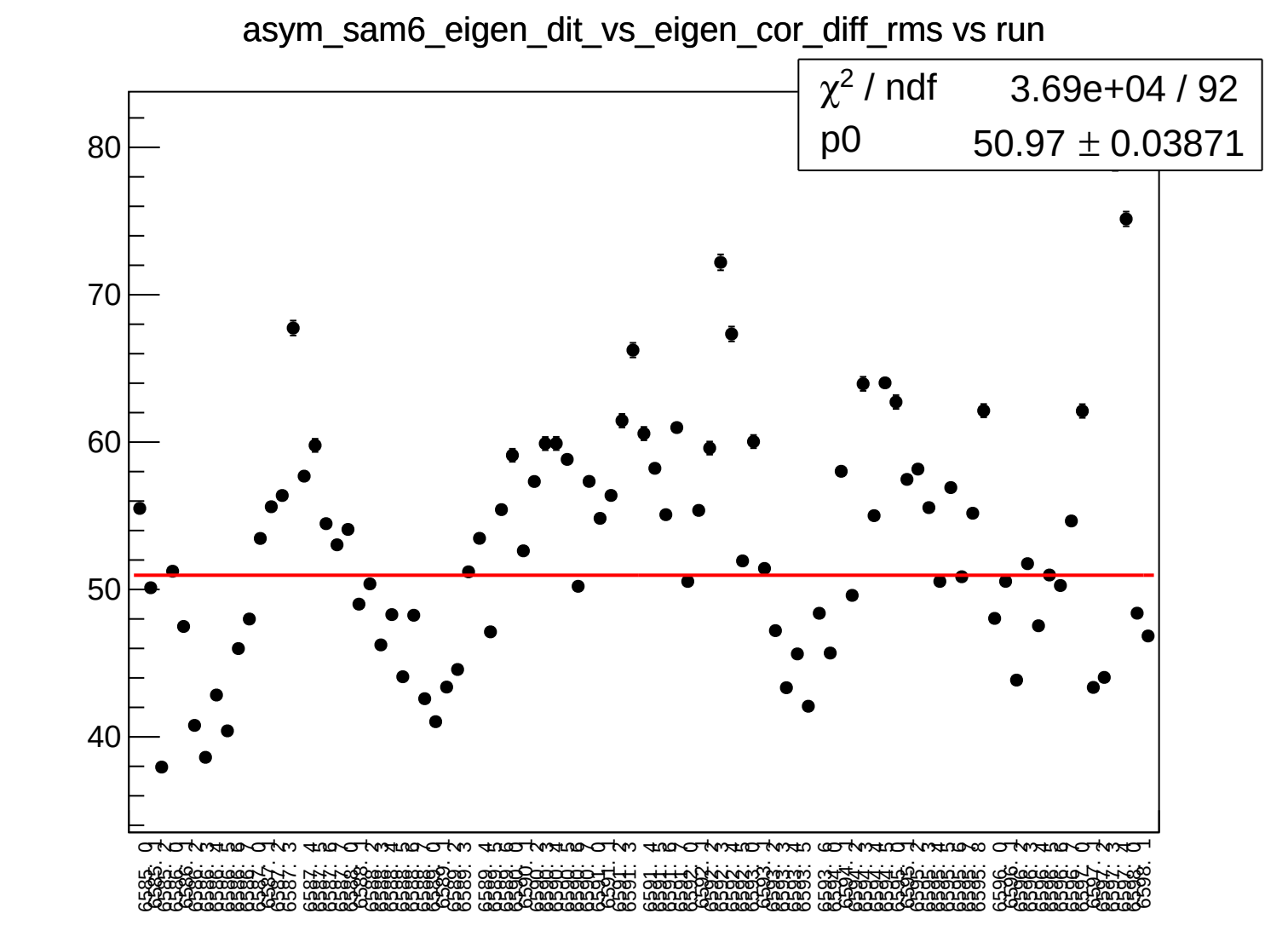

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.43 / 92
p0 −0.02571 ± 0.05474
pull
Entries 93
Mean −20.19
Std Dev 0

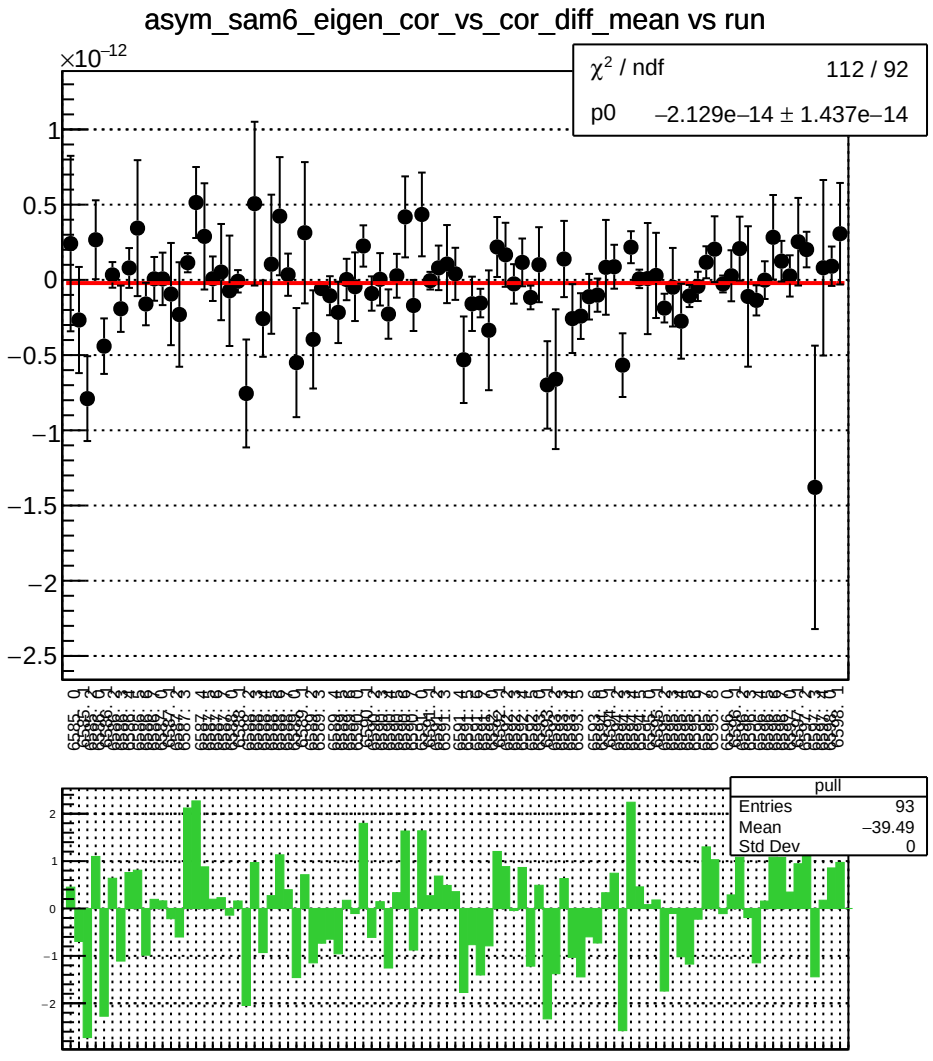

pull1D
Entries 93
Mean 0.03321
Std Dev 0.9964

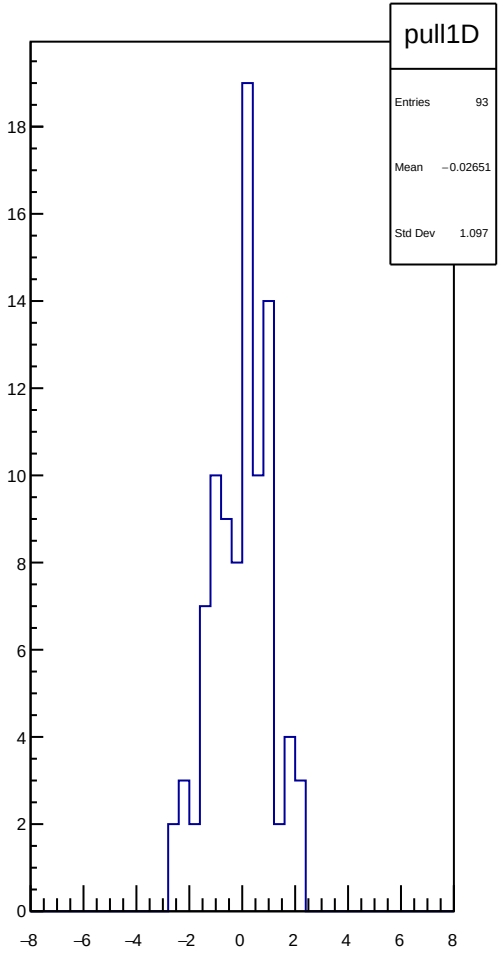

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.69e+04 / 92
p0 50.97 ± 0.03871
80
70
60
50
40

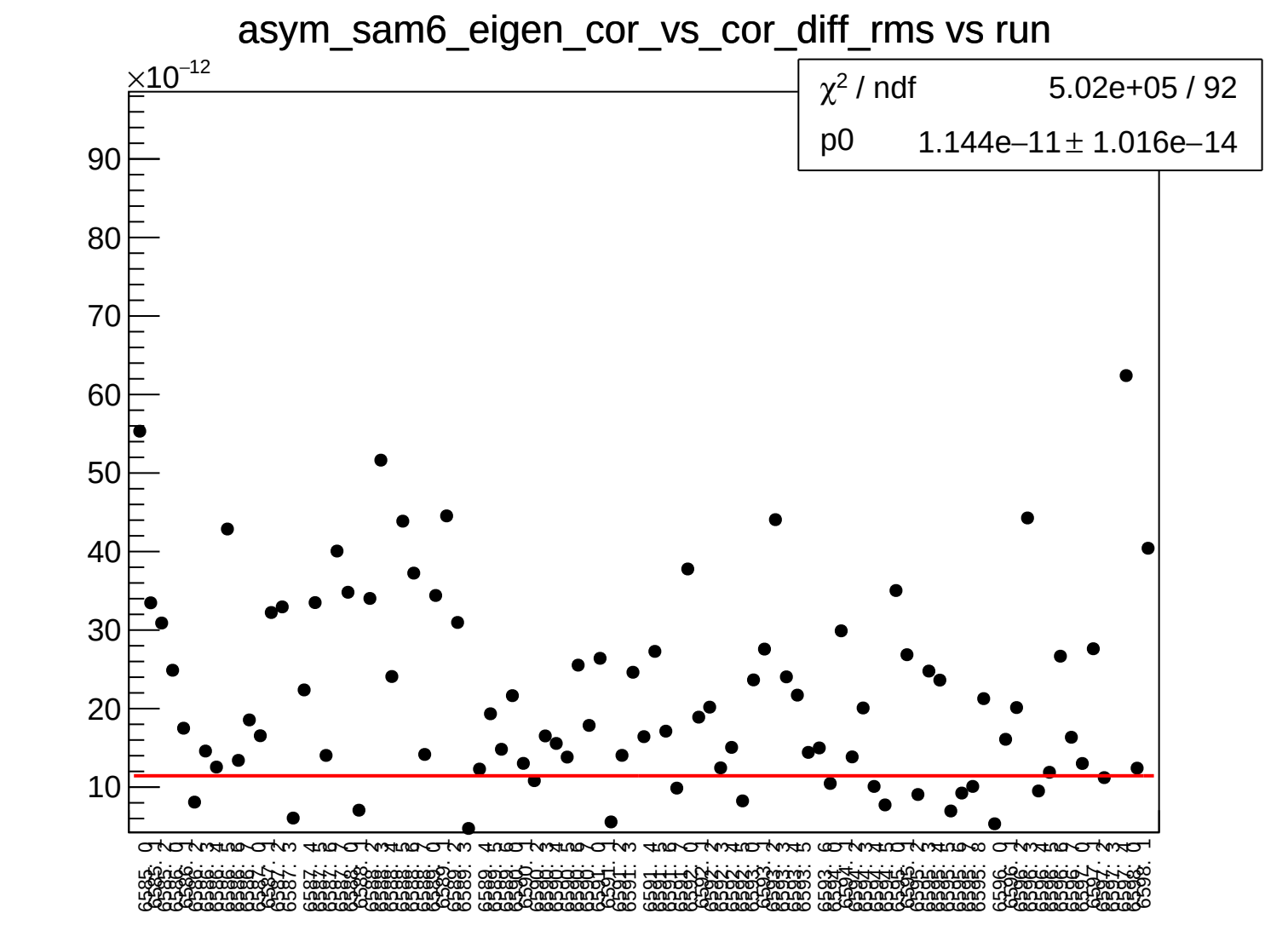

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.43 / 92
p0 −0.02571 ± 0.05474
pull
Entries 93
Mean −20.19
Std Dev 0

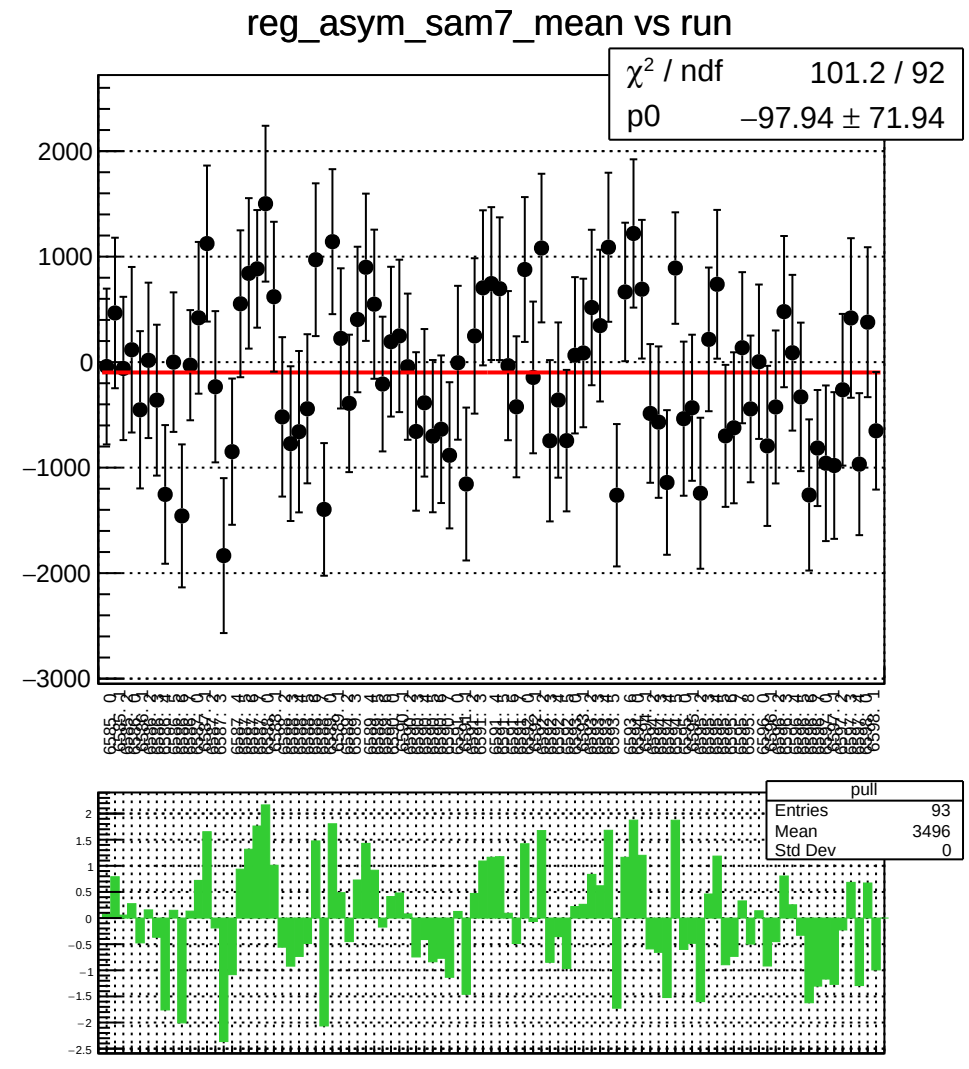

pull1D
Entries 93
Mean 0.03321
Std Dev 0.9964

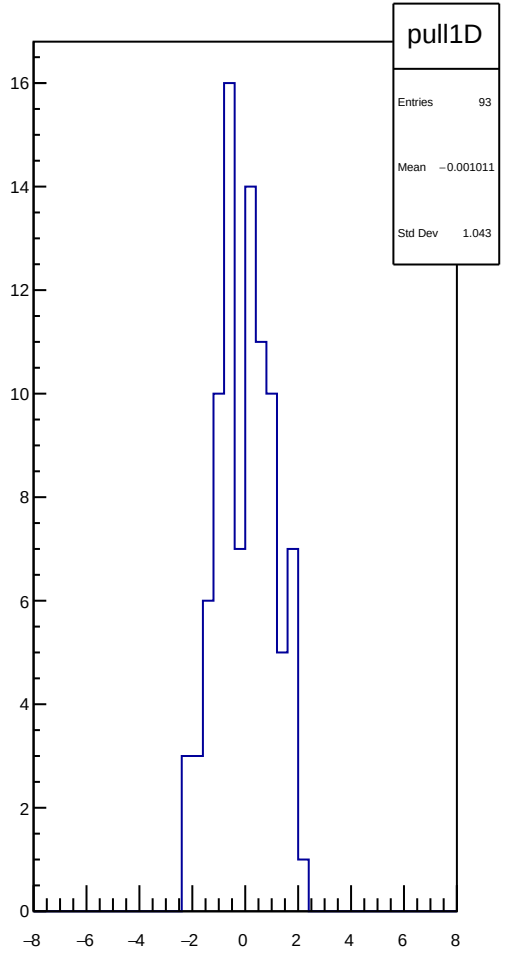

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.69e+04 / 92
p0 50.97 ± 0.03871
80
70
60
50
40

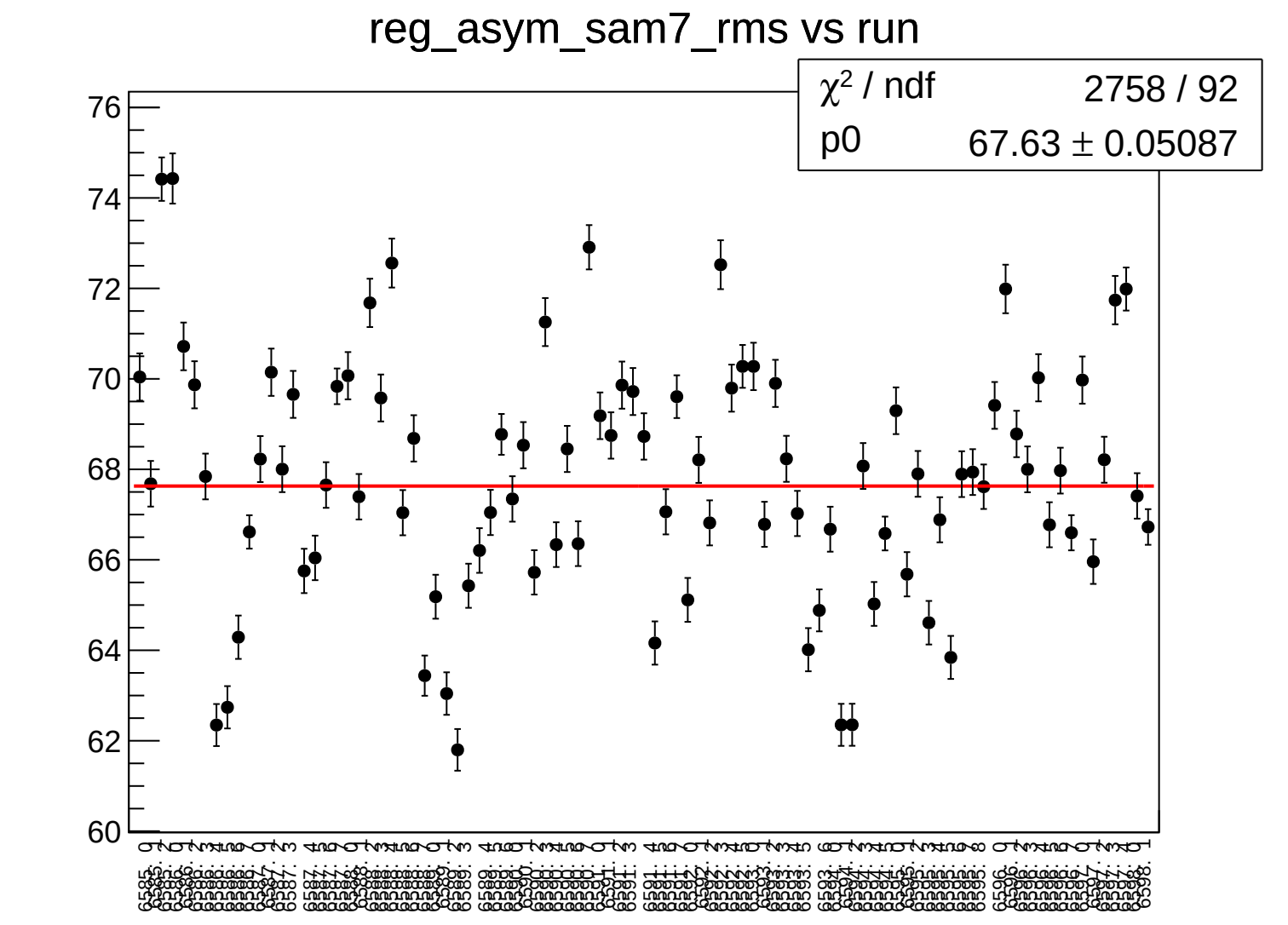

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 112 / 92
p0 −2.129e−14 ± 1.437e−14
pull
Entries 93
Mean −39.49
Std Dev 0

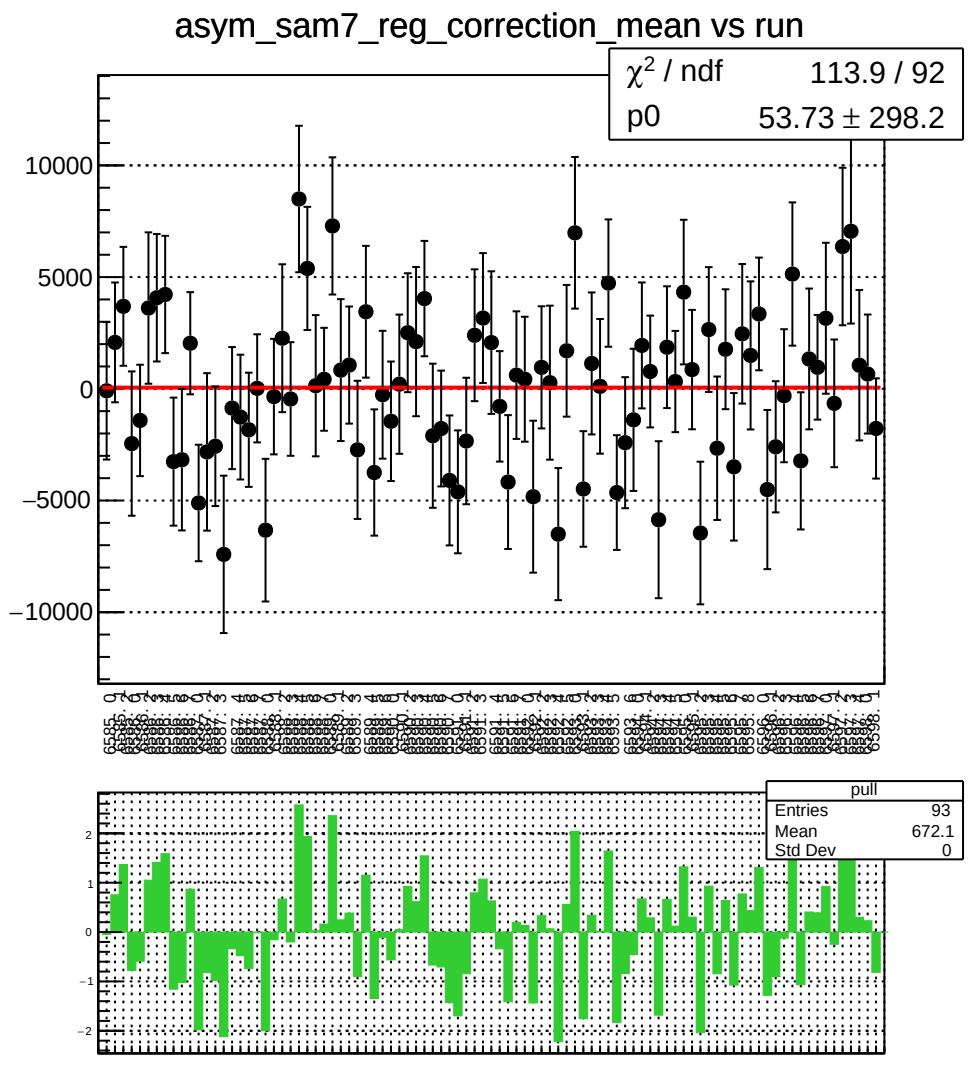

pull1D
Entries 93
Mean −0.02651
Std Dev 1.097

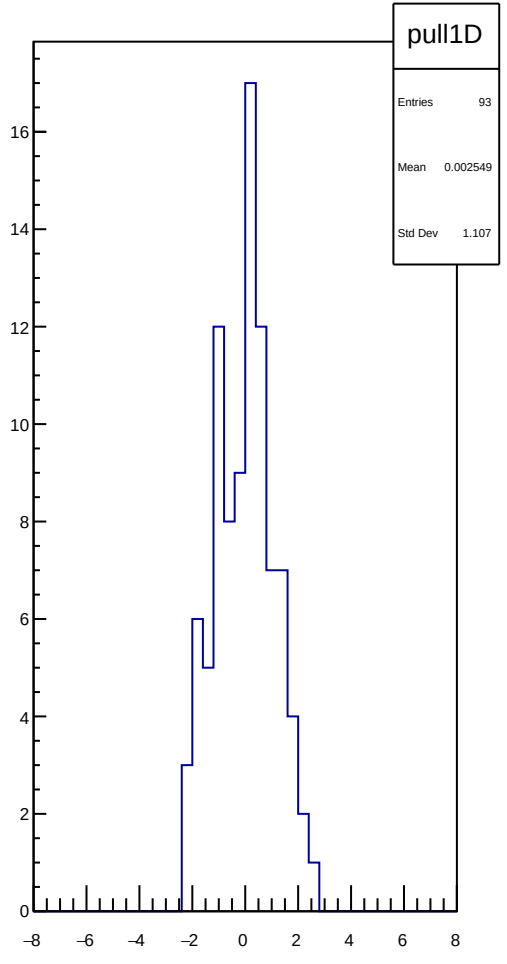

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.02e+05 / 92
p0 1.144e−11 ± 1.016e−14
90
80
70
60
50
40
30
20
10

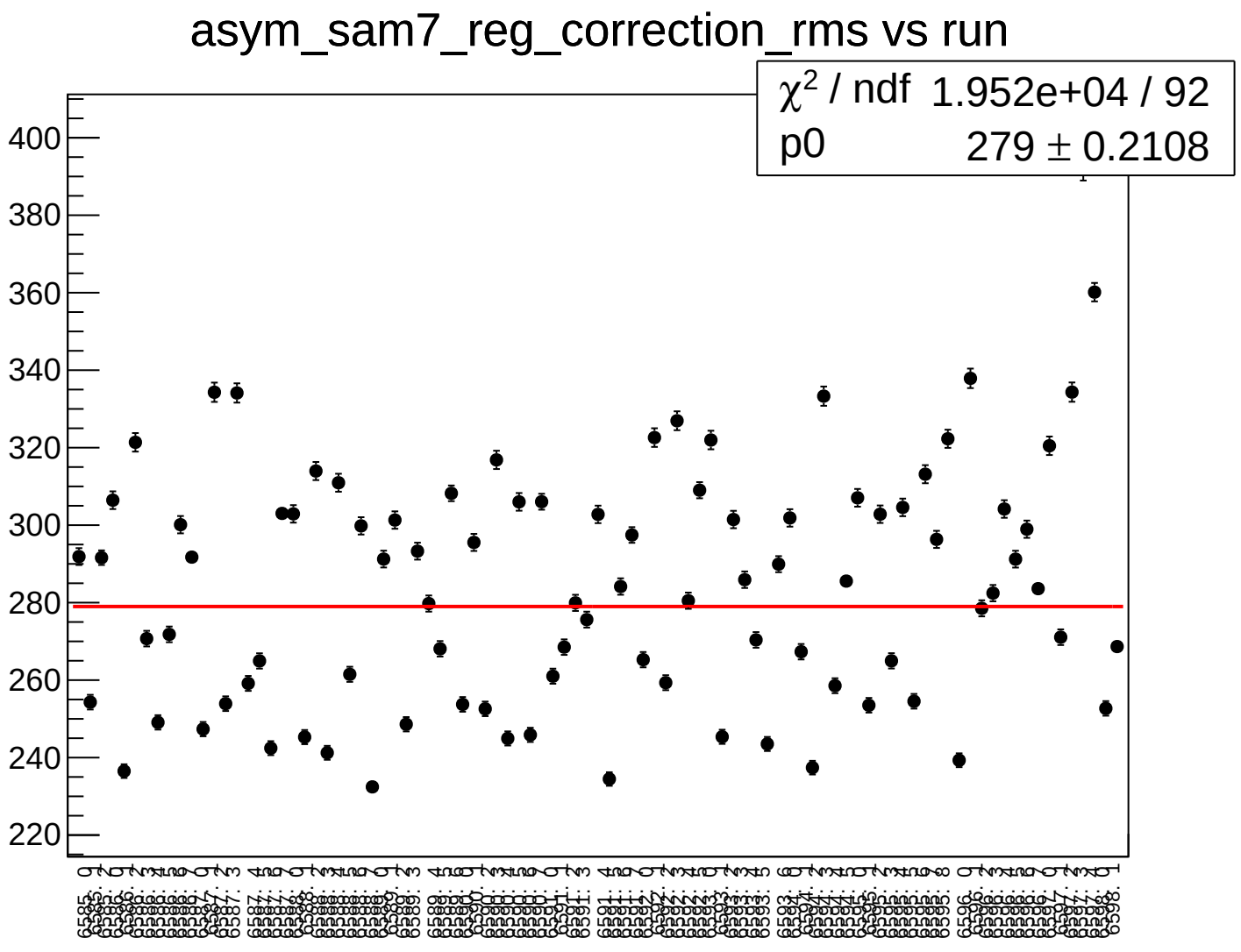

reg_asym_sam7_mean vs run
χ² / ndf 101.2 / 92
p0 −97.94 ± 71.94
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 3496
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

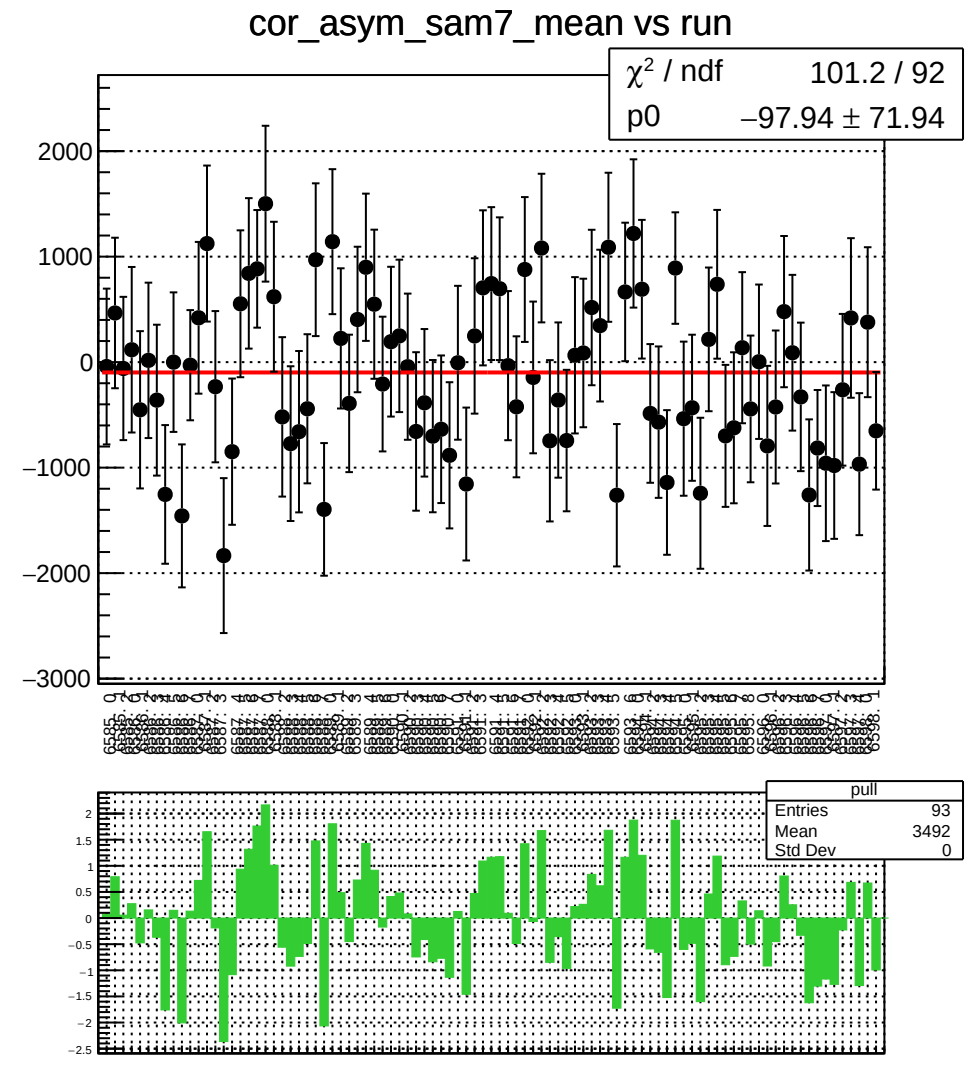

pull1D
Entries 93
Mean −0.001011
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

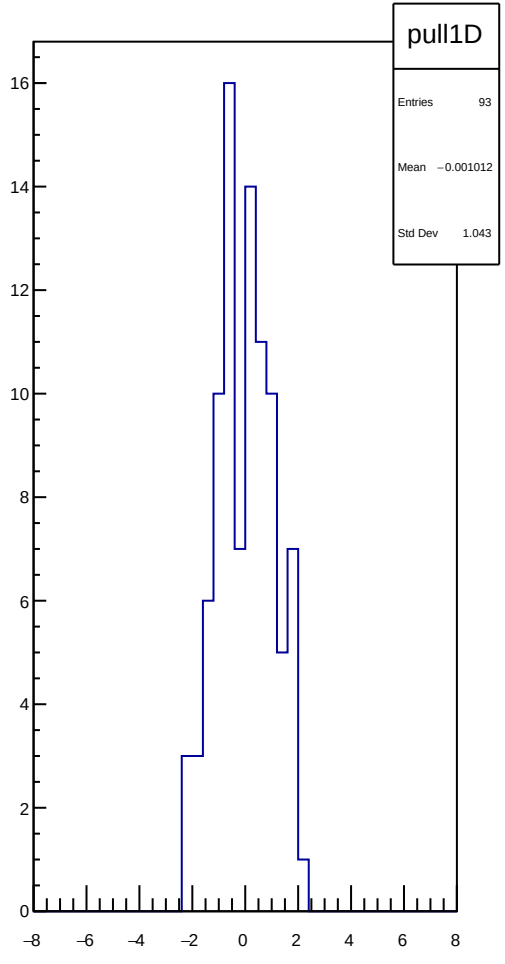

reg_asym_sam7_rms vs run
χ² / ndf 2758 / 92
p0 67.63 ± 0.05087
76
74
72
70
68
66
64
62
60

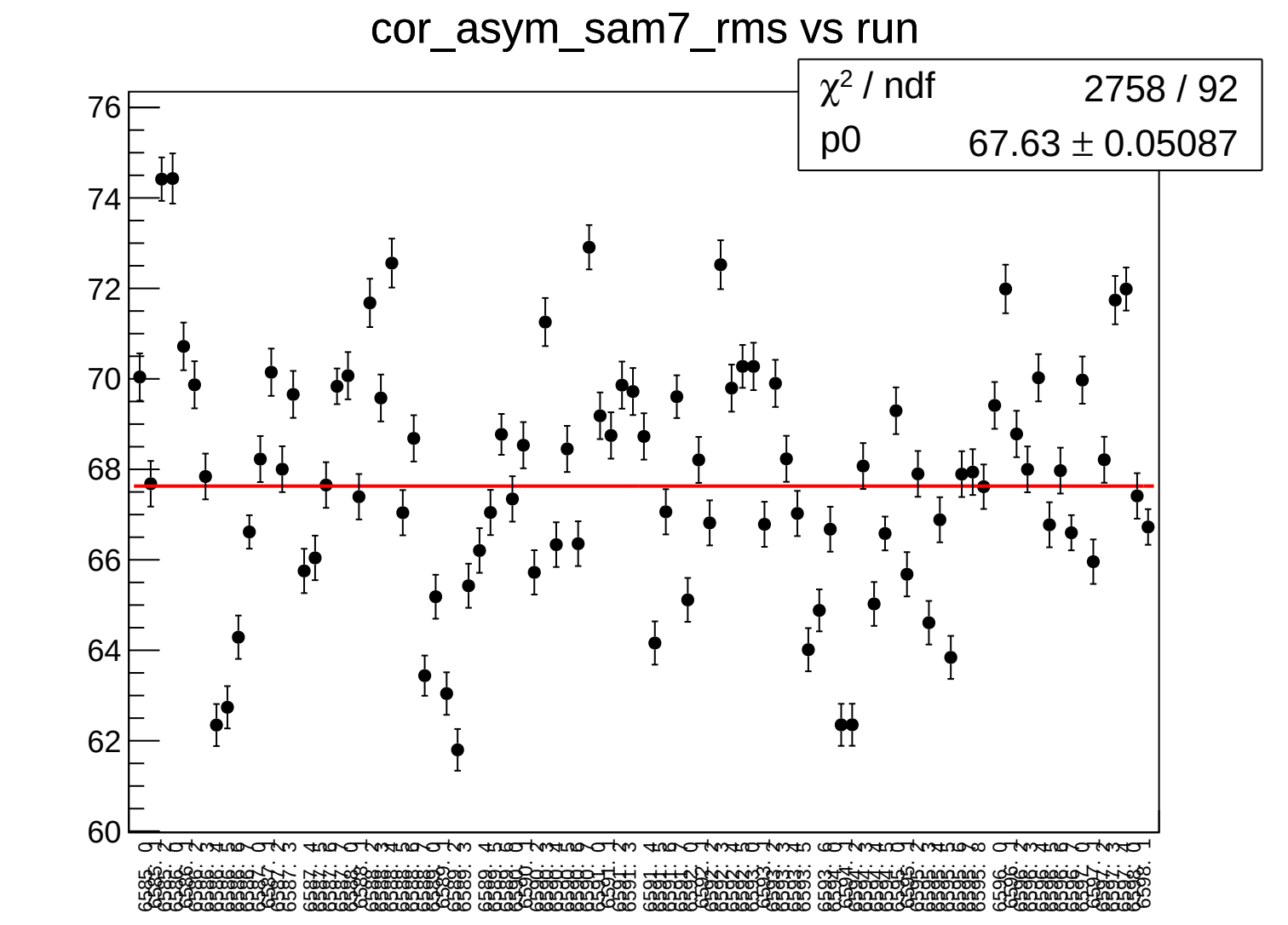

asym_sam7_reg_correction_mean vs run
χ² / ndf 113.9 / 92
p0 53.73 ± 298.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 672.1
Std Dev 0
2
1
0
−1
−2

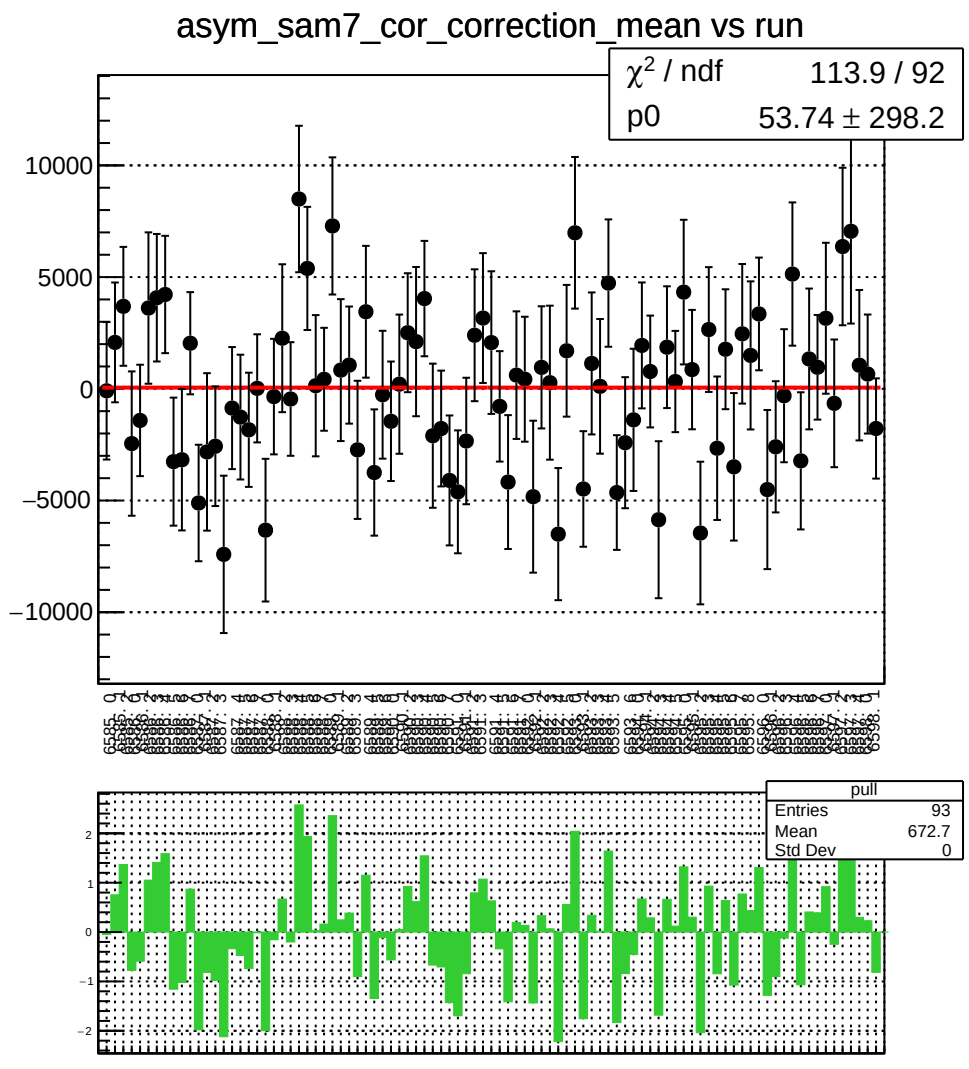

pull1D
Entries 93
Mean 0.002549
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

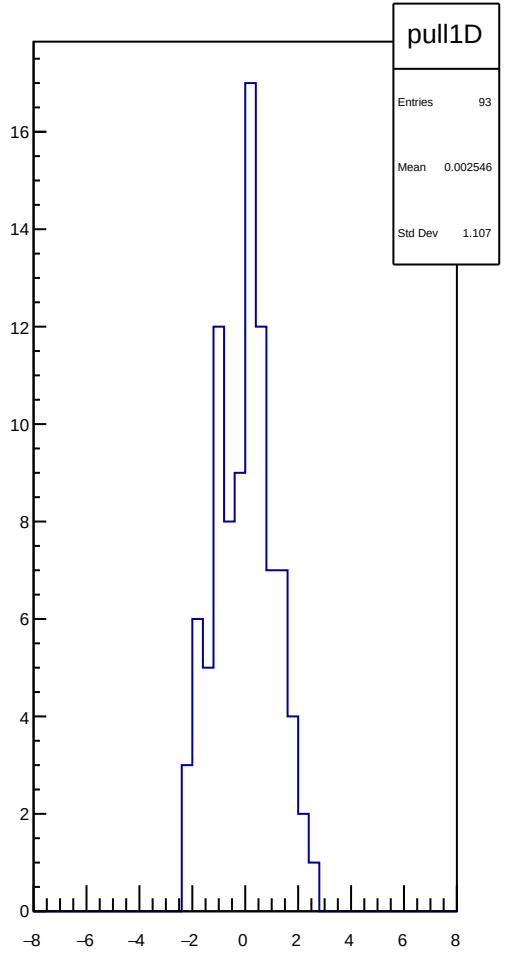

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.952e+04 / 92
p0 279 ± 0.2108
400
380
360
340
320
300
280
260
240
220

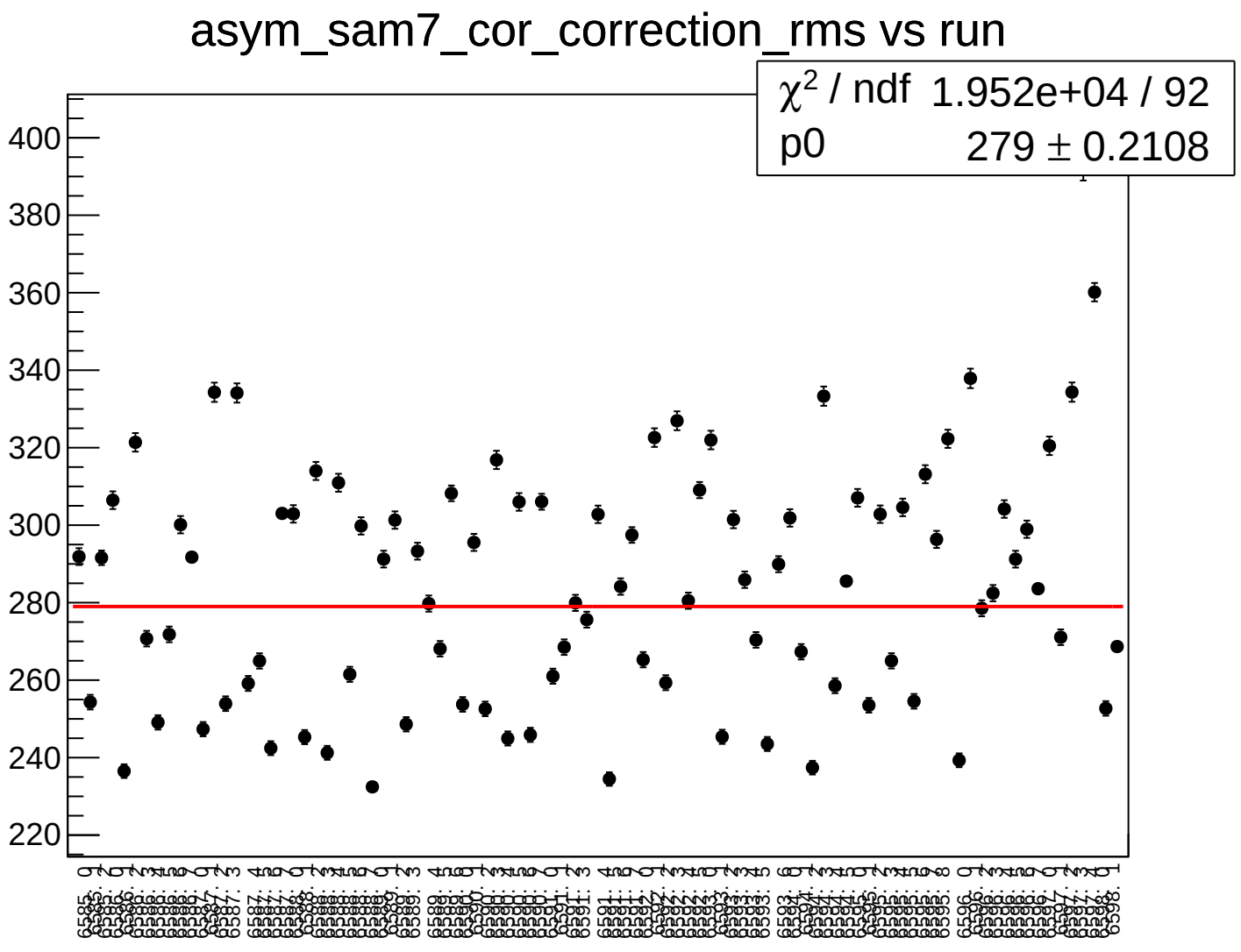

cor_asym_sam7_mean vs run
χ² / ndf 101.2 / 92
p0 −97.94 ± 71.94
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 3492
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

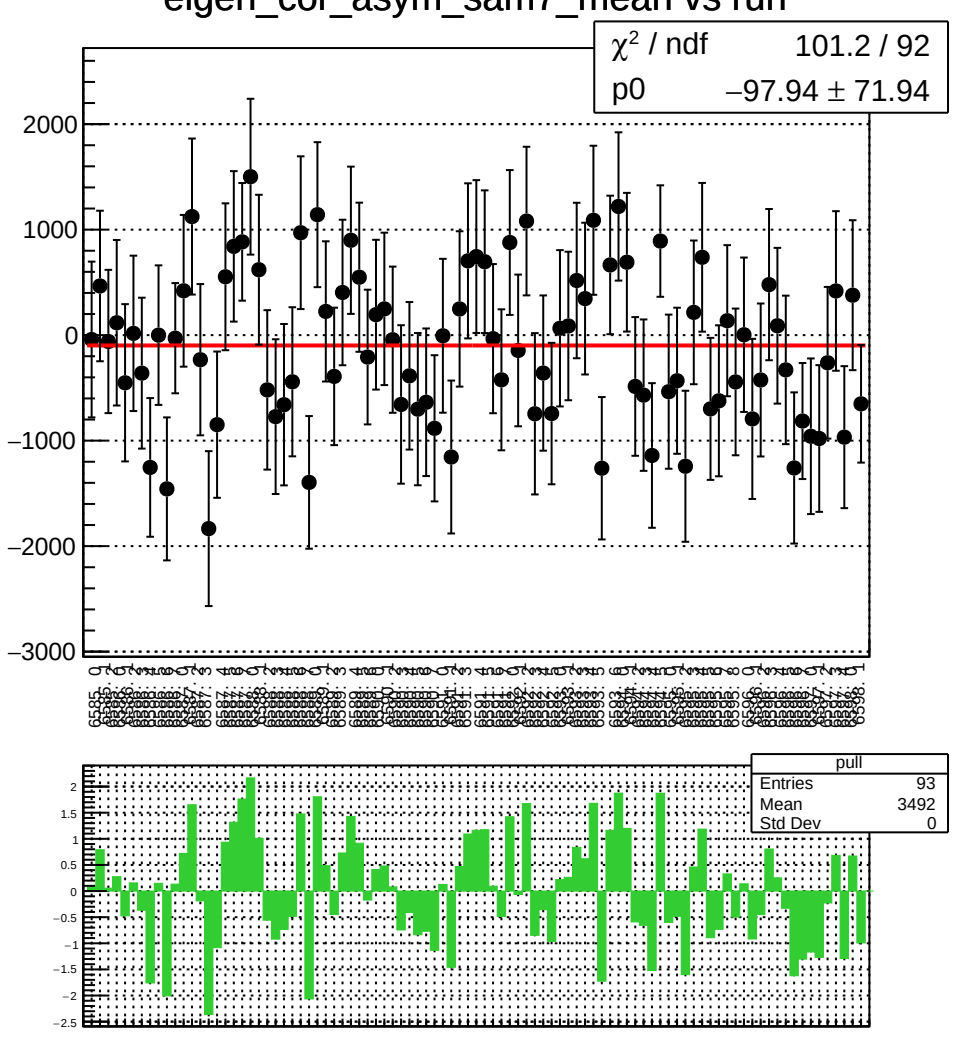

pull1D
Entries 93
Mean −0.001012
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

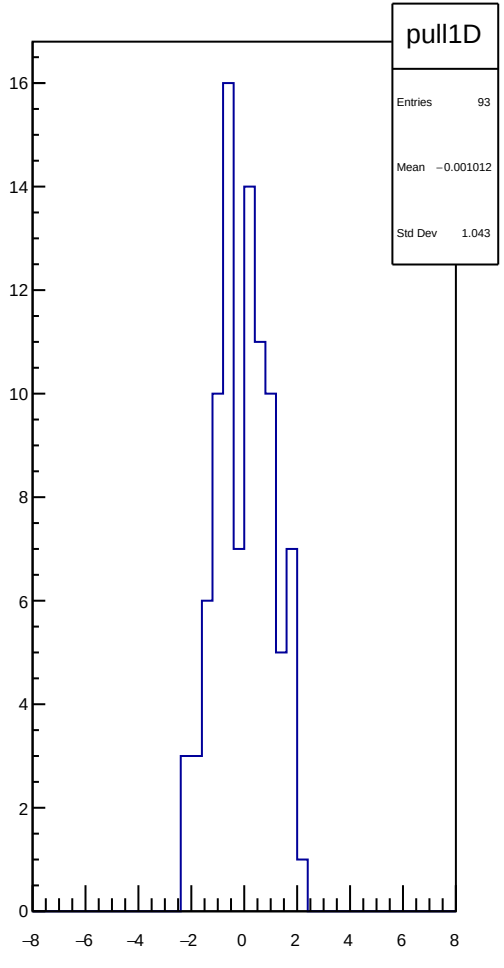

cor_asym_sam7_rms vs run
χ² / ndf 2758 / 92
p0 67.63 ± 0.05087
76
74
72
70
68
66
64
62
60

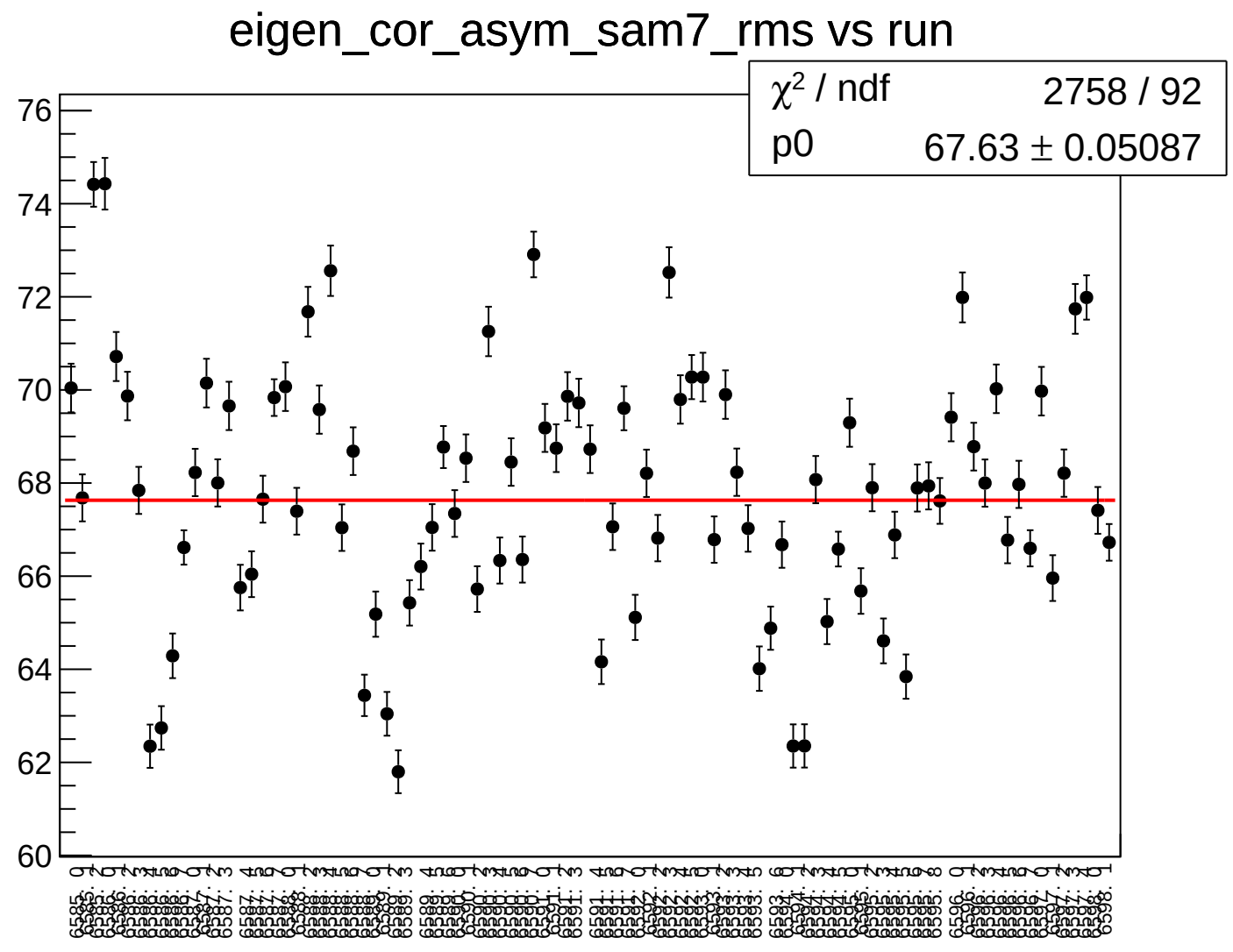

asym_sam7_cor_correction_mean vs run
χ² / ndf 113.9 / 92
p0 53.74 ± 298.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 672.7
Std Dev 0
2
1
0
−1
−2

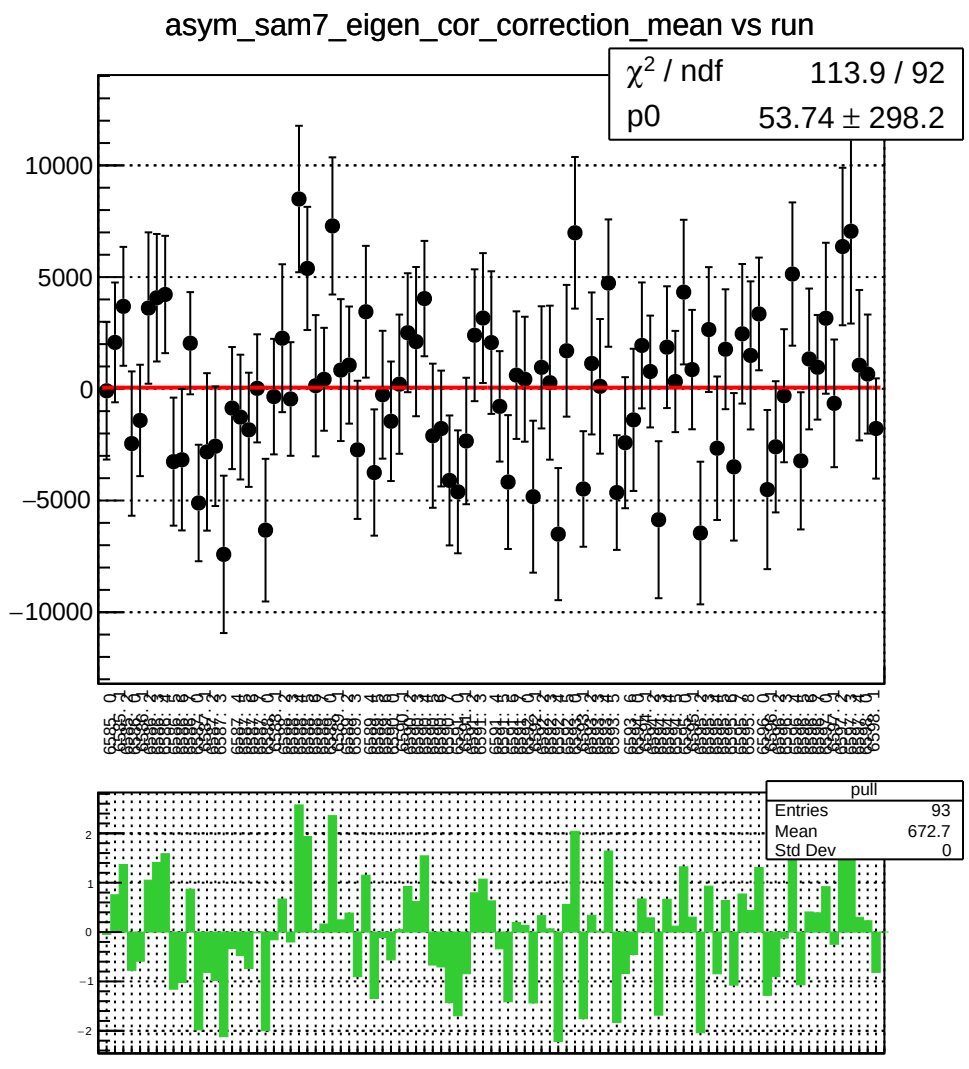

pull1D
Entries 93
Mean 0.002546
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

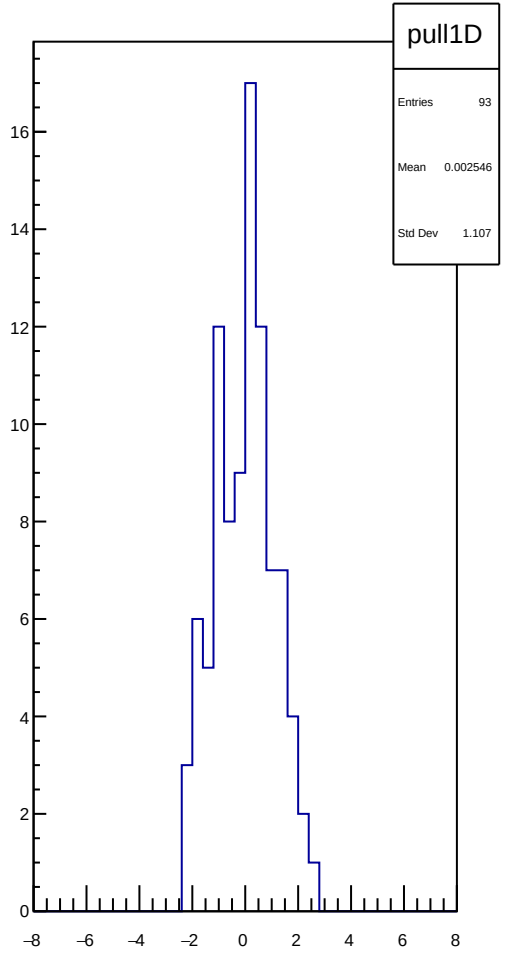

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.952e+04 / 92
p0 279 ± 0.2108
400
380
360
340
320
300
280
260
240
220

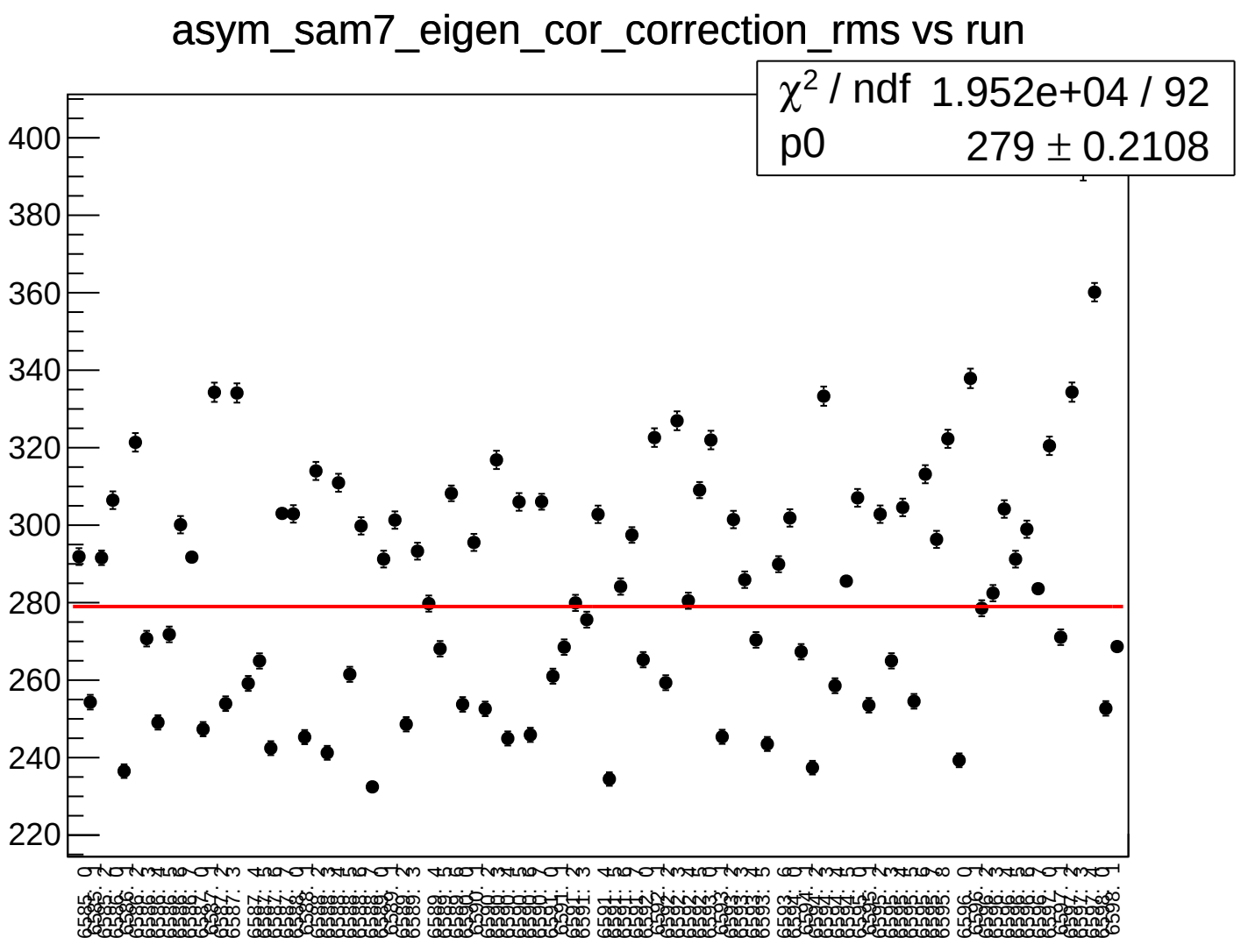

eigen_cor_asym_sam7_mean vs run
χ² / ndf 101.2 / 92
p0 −97.94 ± 71.94
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 3492
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

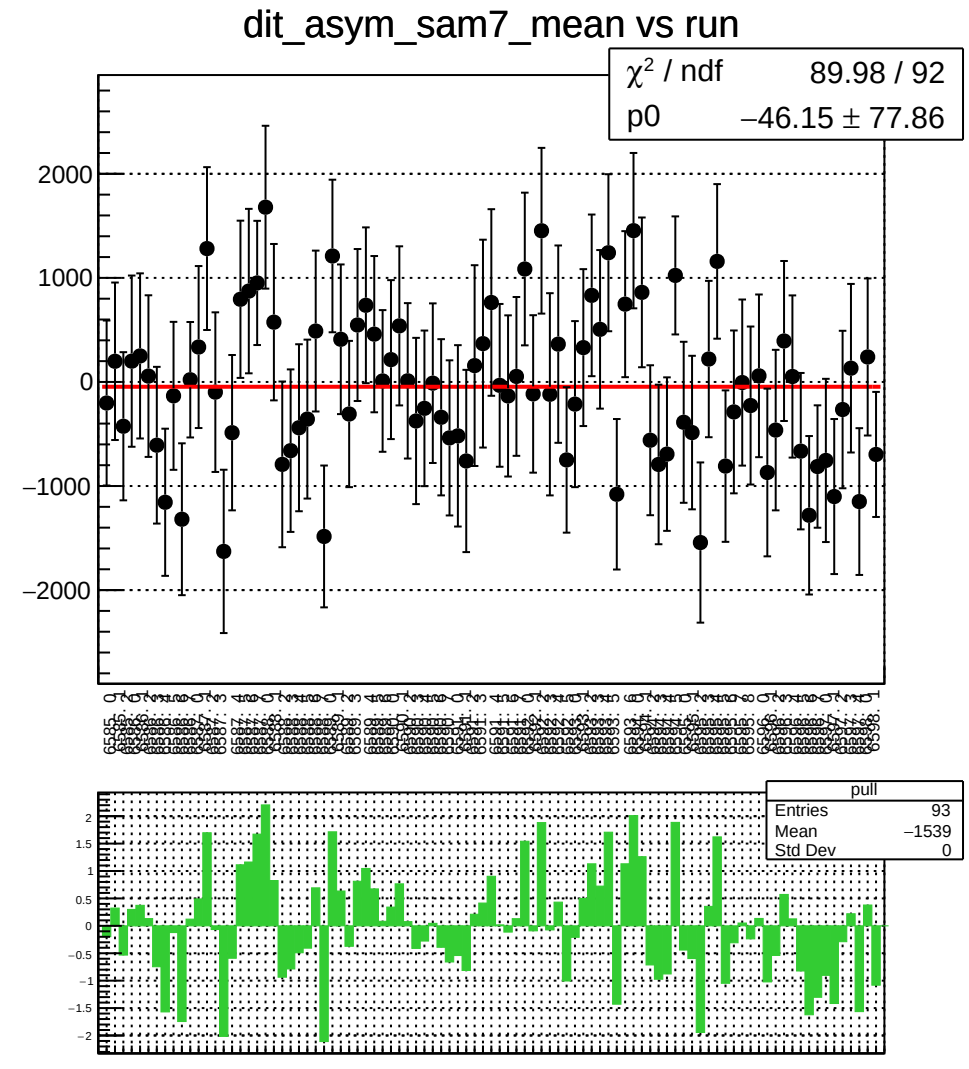

pull1D
Entries 93
Mean −0.001012
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

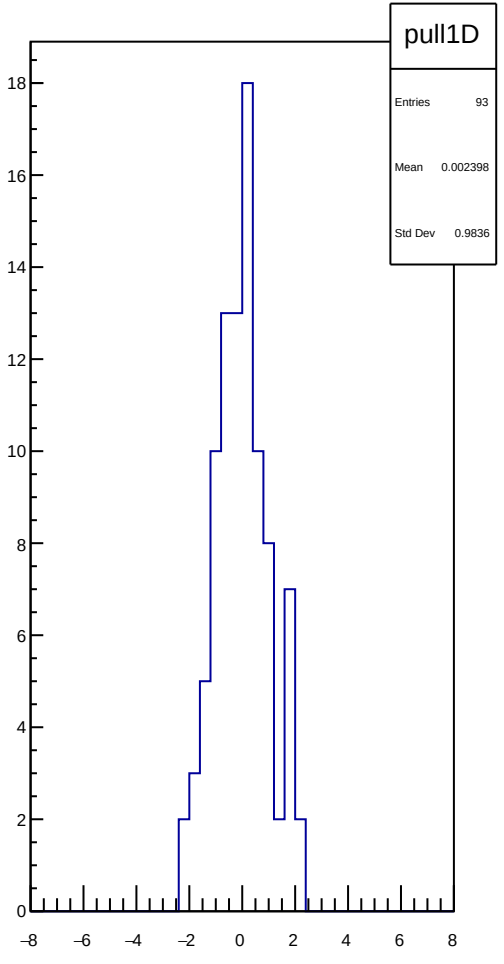

eigen_cor_asym_sam7_rms vs run
χ² / ndf 2758 / 92
p0 67.63 ± 0.05087
76
74
72
70
68
66
64
62
60

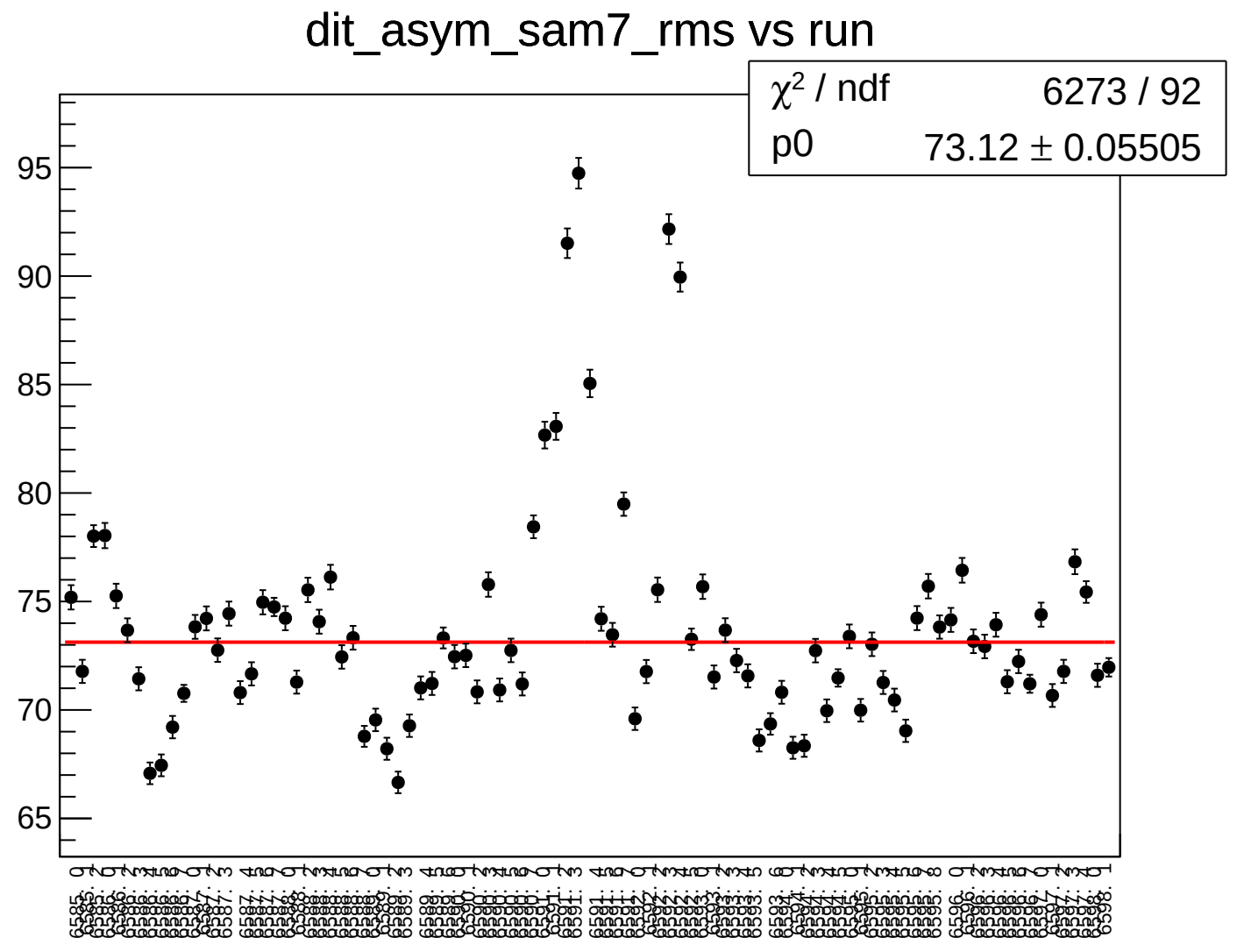

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 113.9 / 92
p0 53.74 ± 298.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 672.7
Std Dev 0
2
1
0
−1
−2

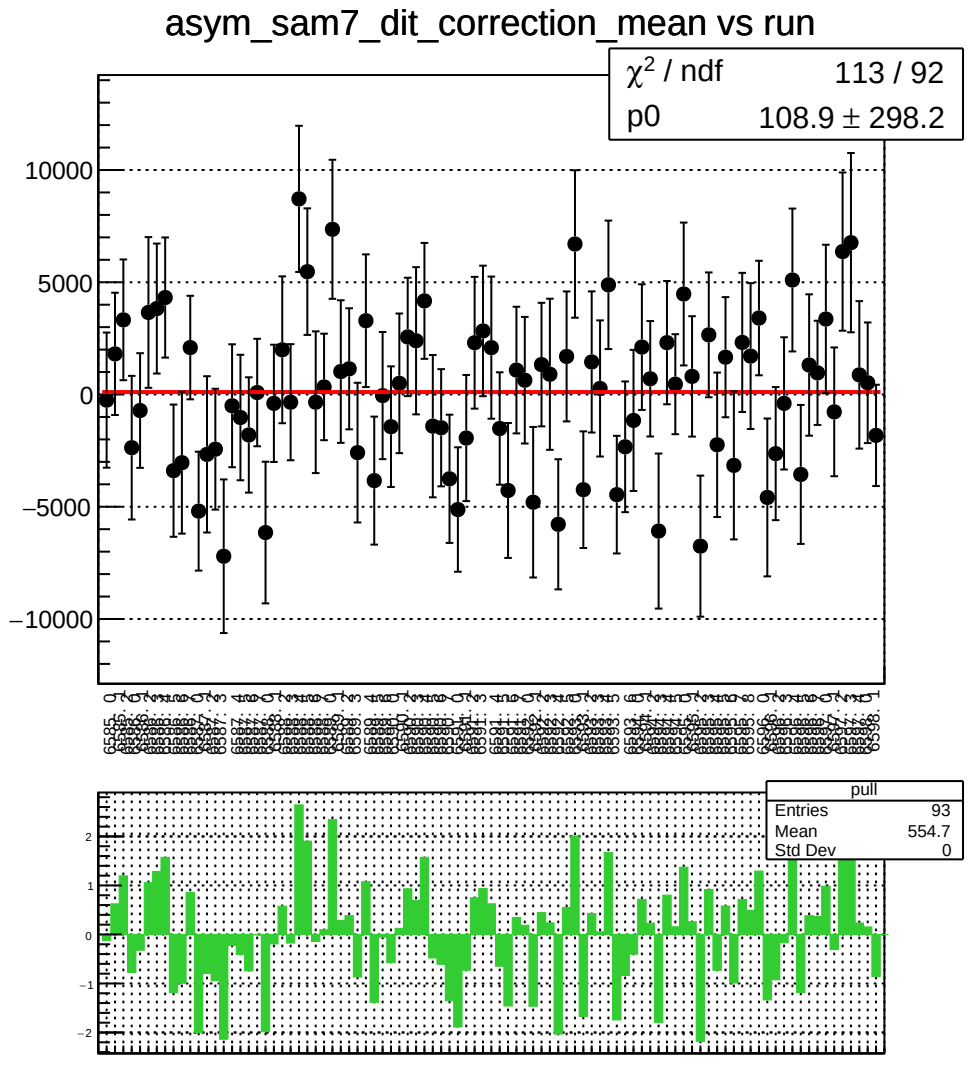

pull1D
Entries 93
Mean 0.002546
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

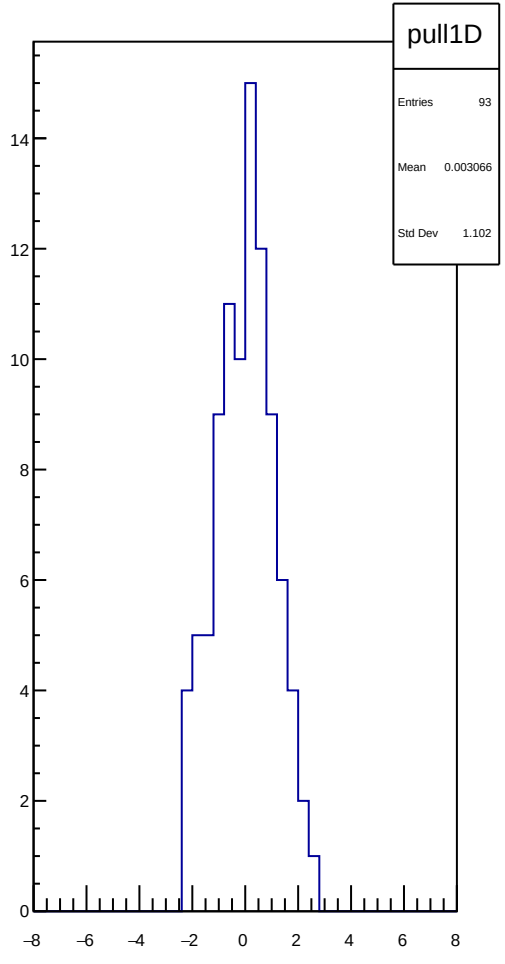

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.952e+04 / 92
p0 279 ± 0.2108
400
380
360
340
320
300
280
260
240
220

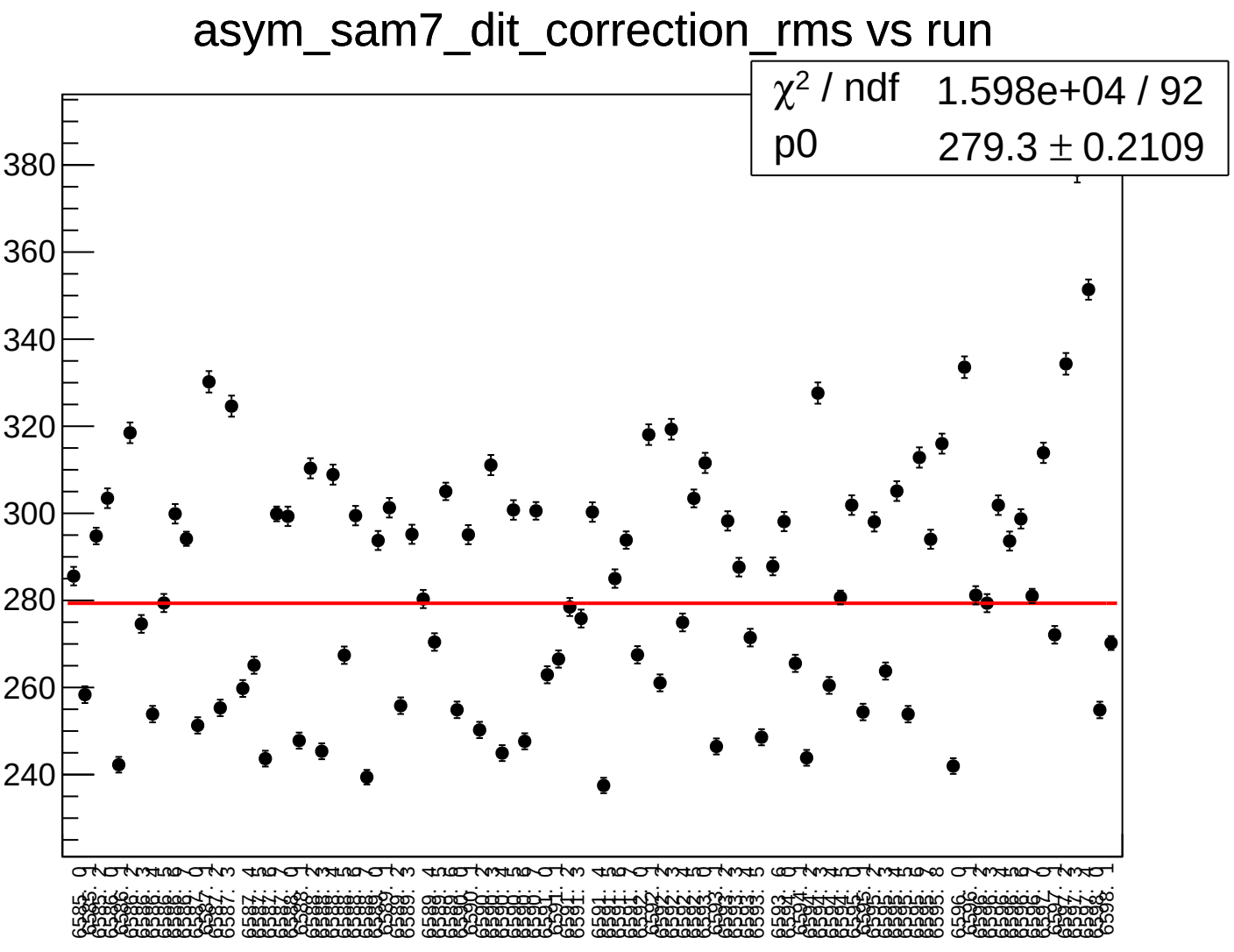

dit_asym_sam7_mean vs run
χ² / ndf 89.98 / 92
p0 −46.15 ± 77.86
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −1539
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

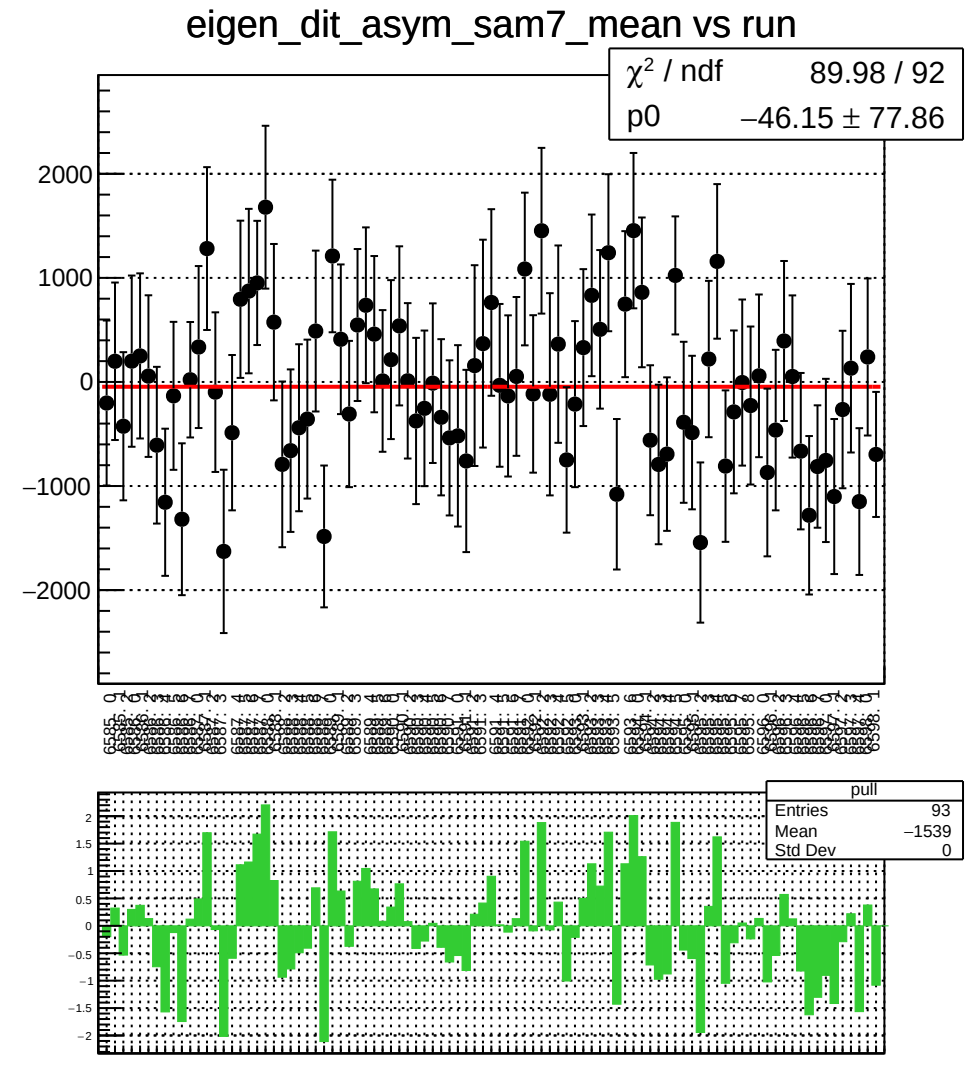

pull1D
Entries 93
Mean 0.002398
Std Dev 0.9836
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

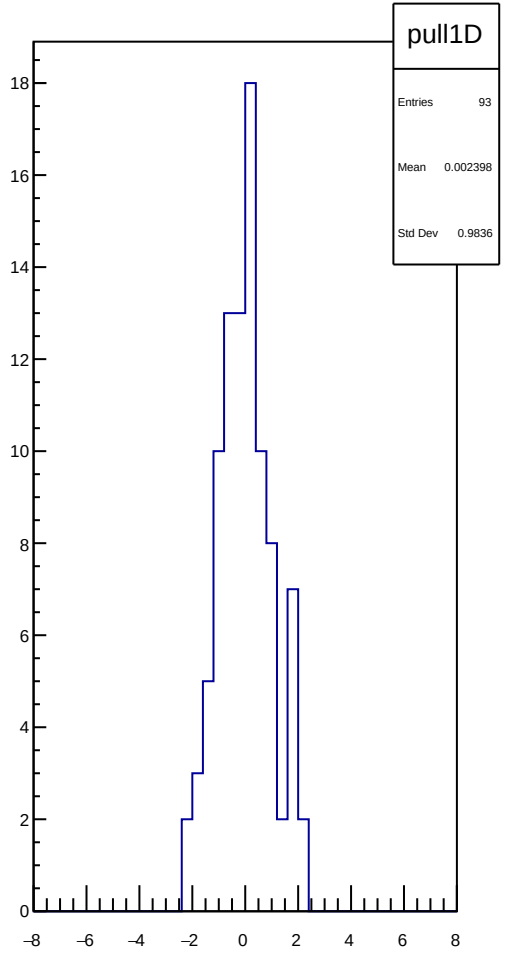

dit_asym_sam7_rms vs run
χ² / ndf 6273 / 92
p0 73.12 ± 0.05505
95
90
85
80
75
70
65

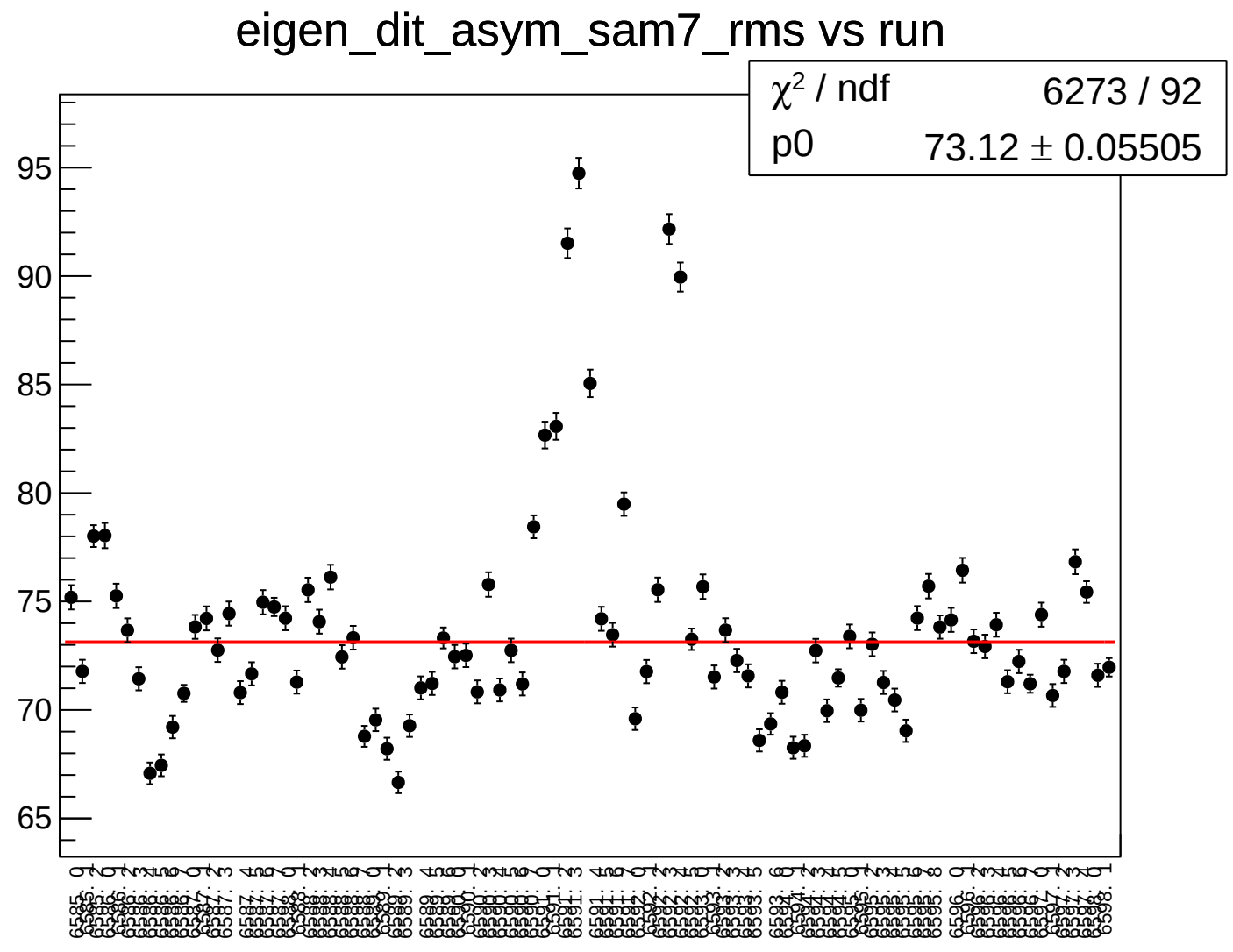

asym_sam7_dit_correction_mean vs run
χ² / ndf 113 / 92
p0 108.9 ± 298.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 554.7
Std Dev 0
2
1
0
−1
−2

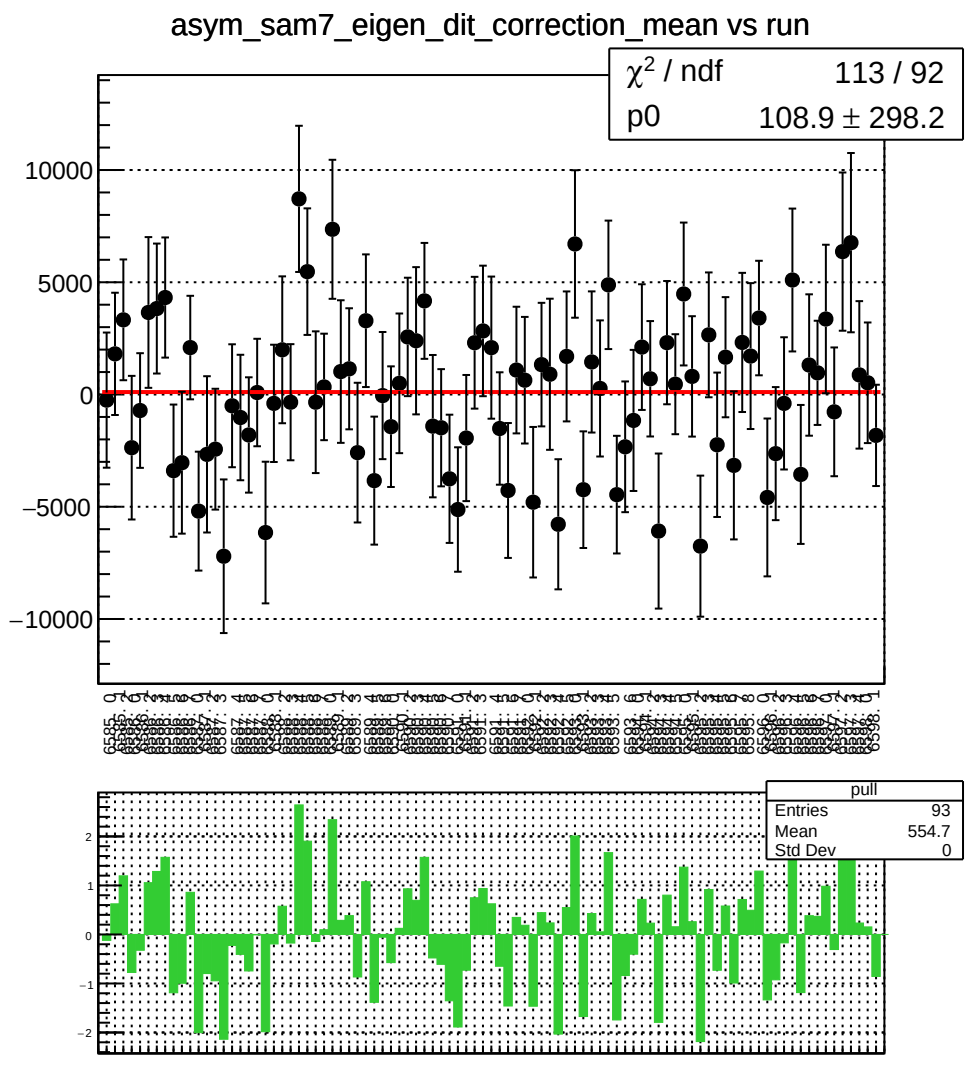

pull1D
Entries 93
Mean 0.003066
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

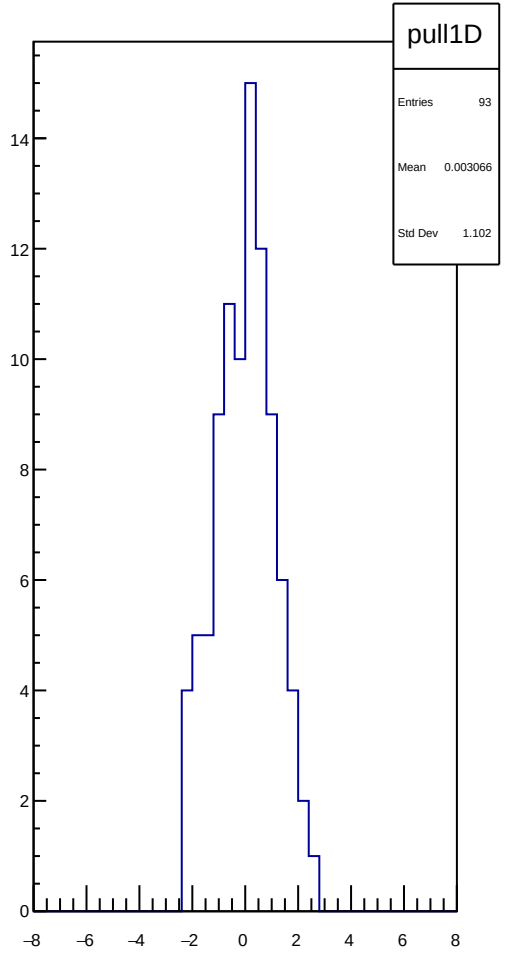

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.598e+04 / 92
p0 279.3 ± 0.2109
380
360
340
320
300
280
260
240

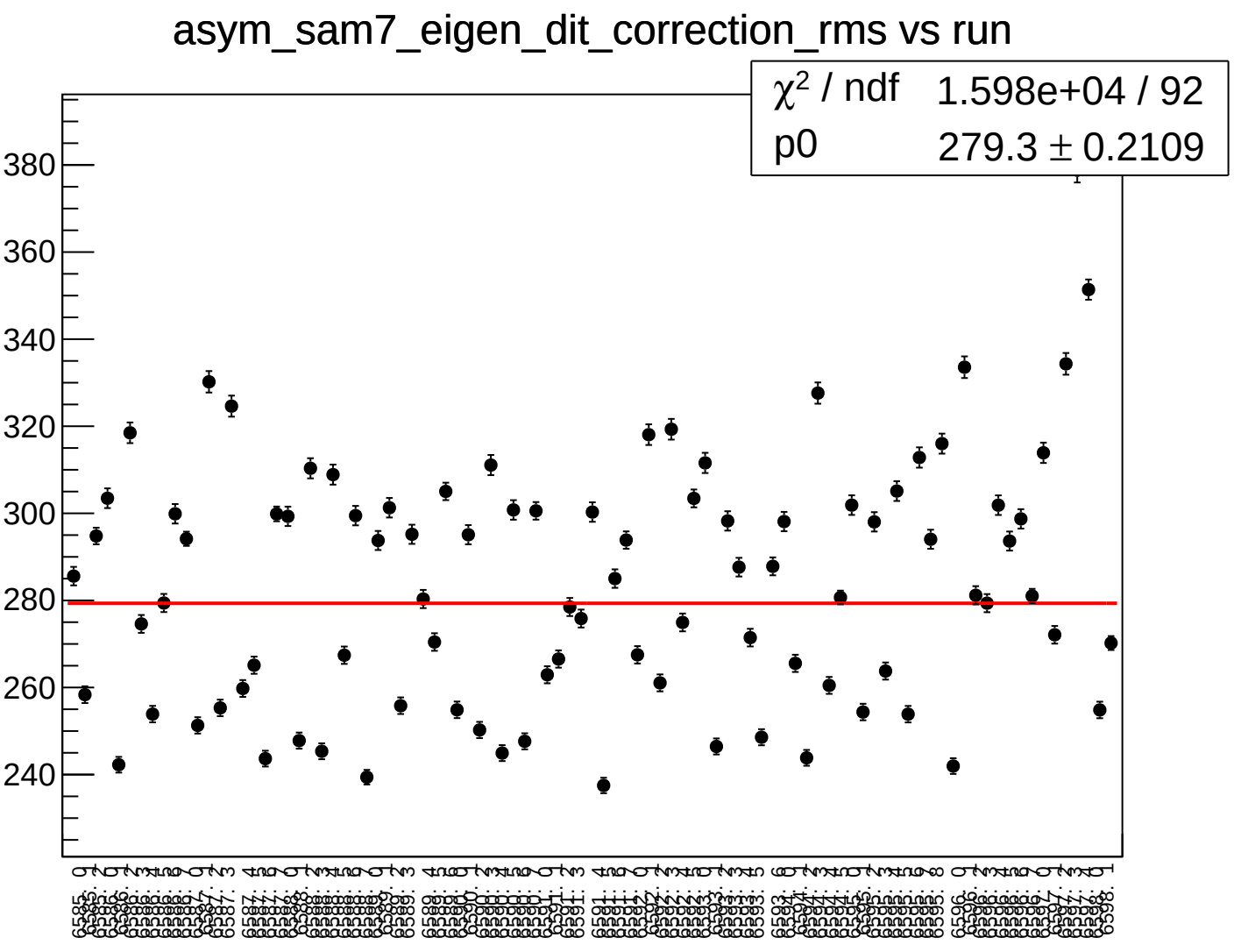

eigen_dit_asym_sam7_mean vs run
χ² / ndf 89.98 / 92
p0 −46.15 ± 77.86
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −1539
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

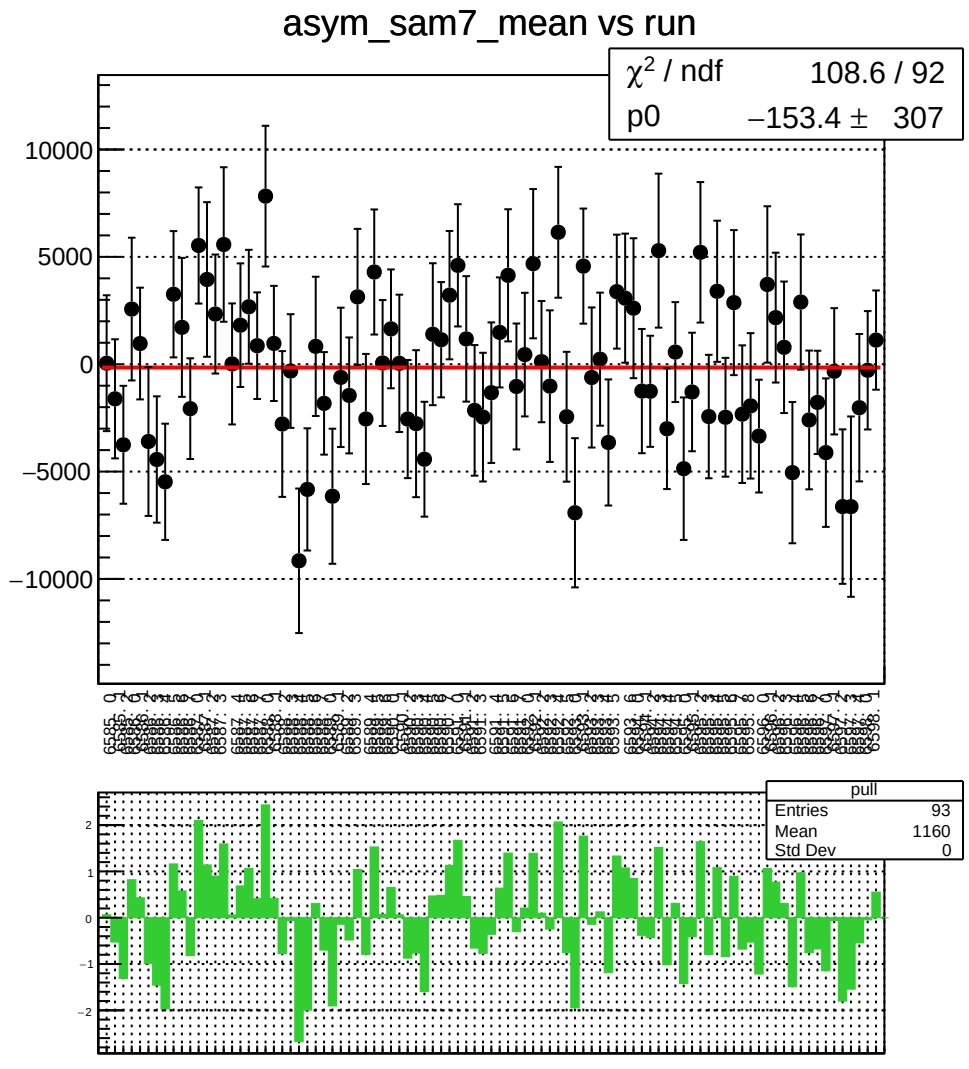

pull1D
Entries 93
Mean 0.002398
Std Dev 0.9836
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

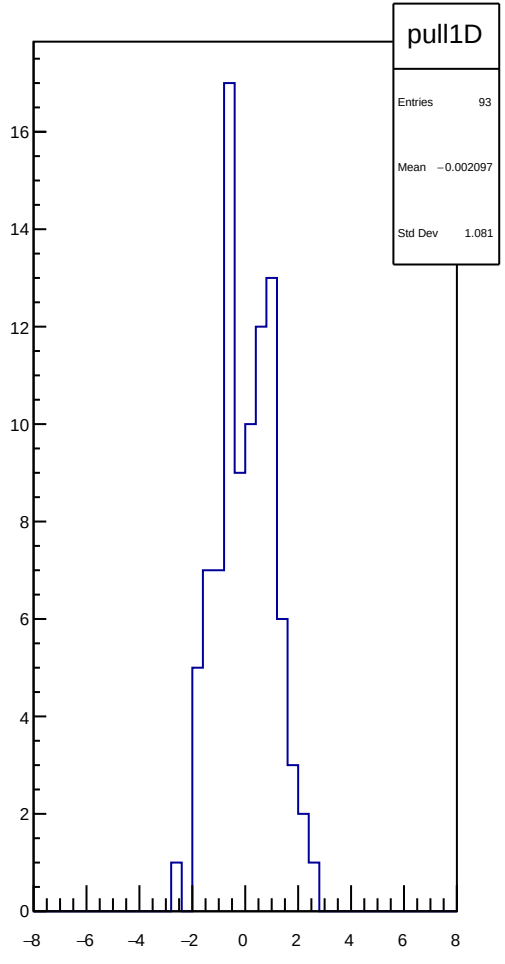

eigen_dit_asym_sam7_rms vs run
χ² / ndf 6273 / 92
p0 73.12 ± 0.05505
95
90
85
80
75
70
65

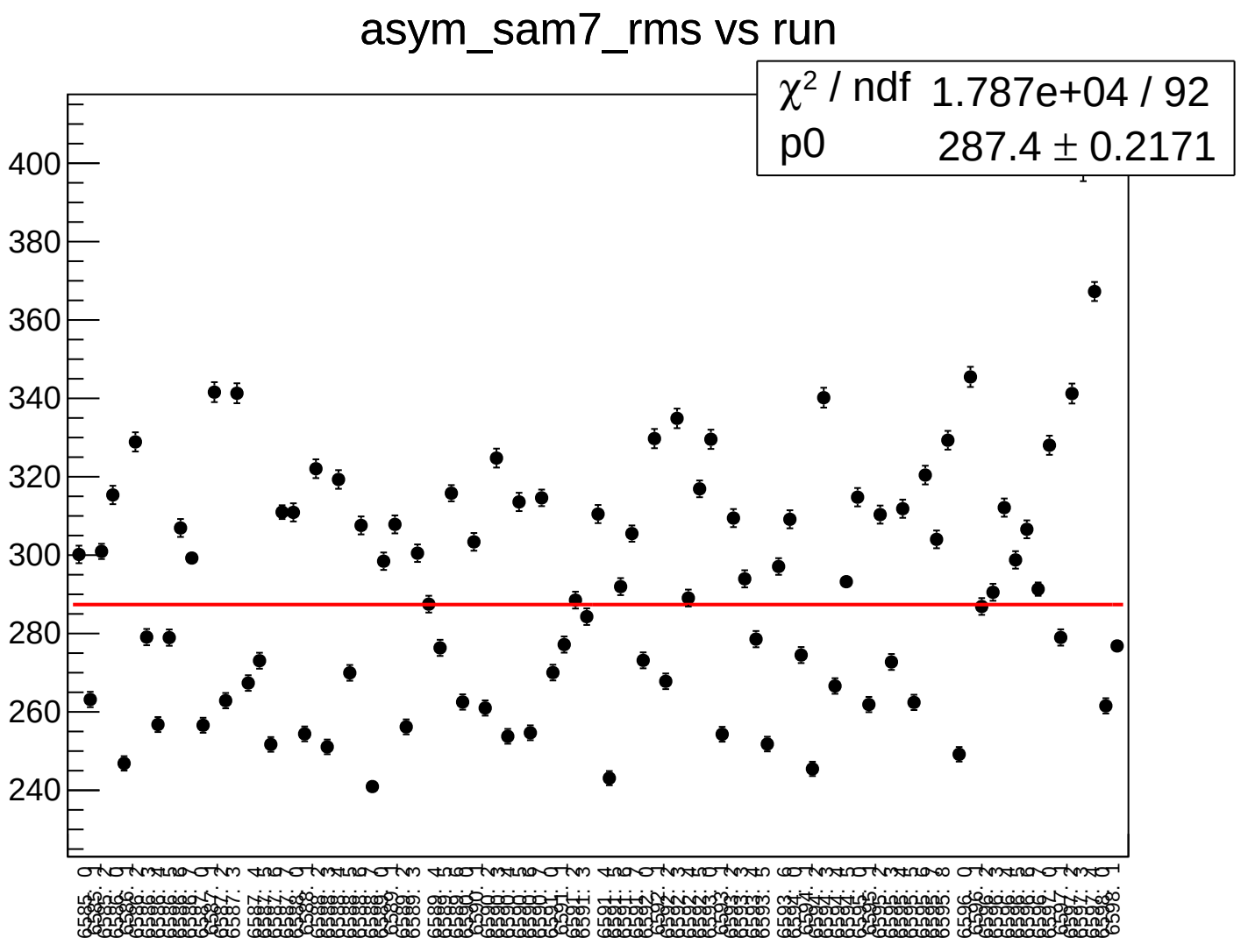

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 113 / 92
p0 108.9 ± 298.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 554.7
Std Dev 0
2
1
0
−1
−2

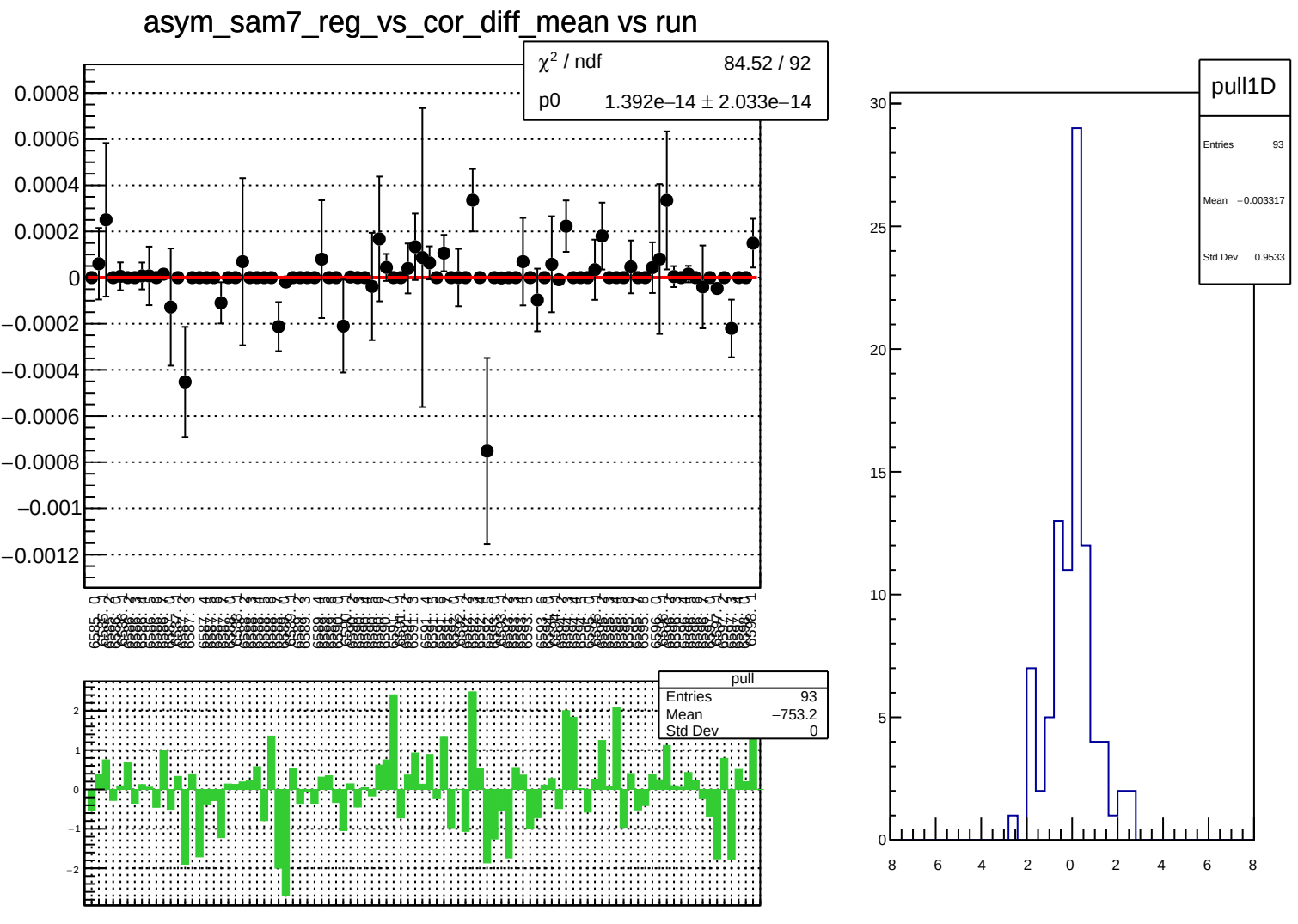

pull1D
Entries 93
Mean 0.003066
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

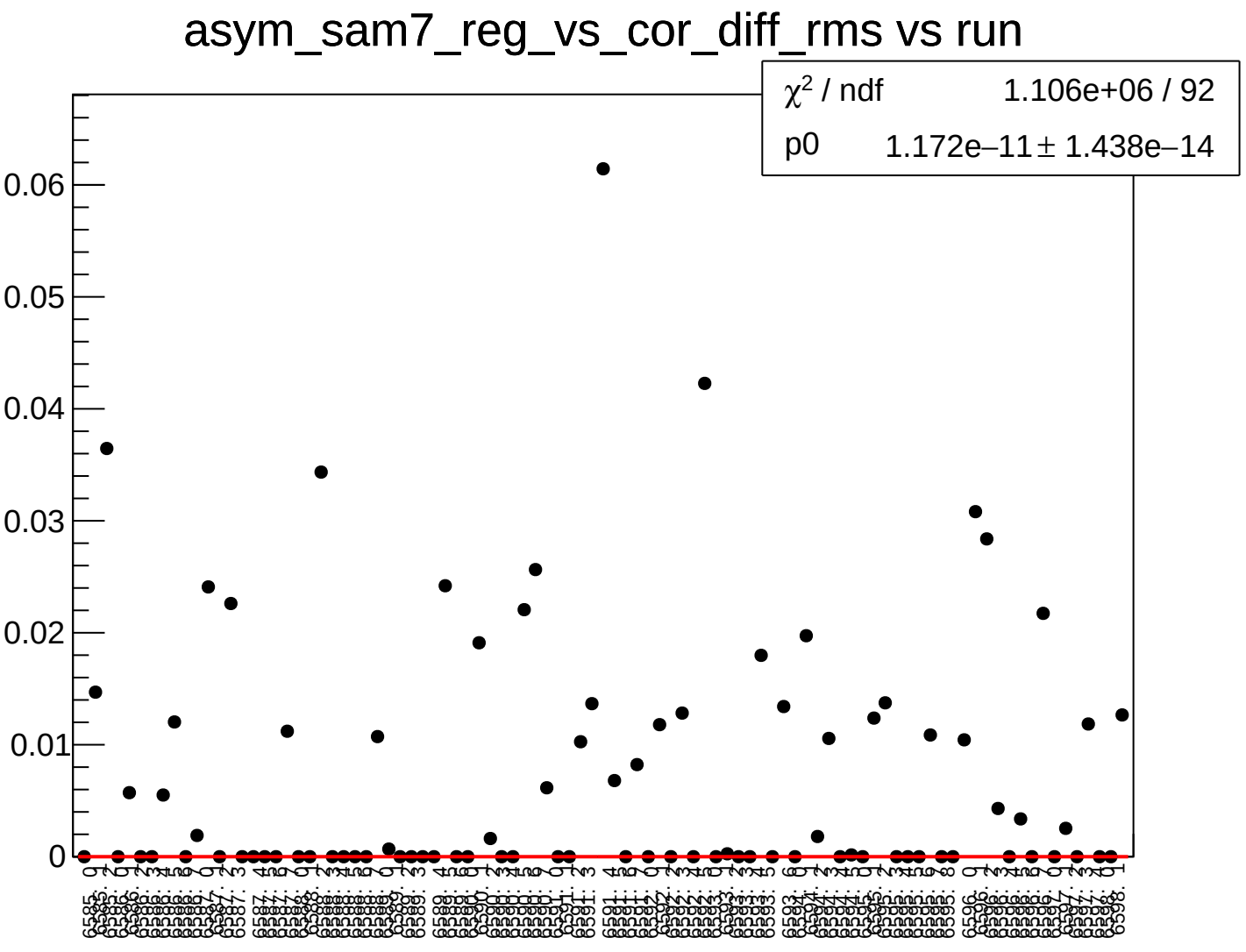

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.598e+04 / 92
p0 279.3 ± 0.2109
380
360
340
320
300
280
260
240

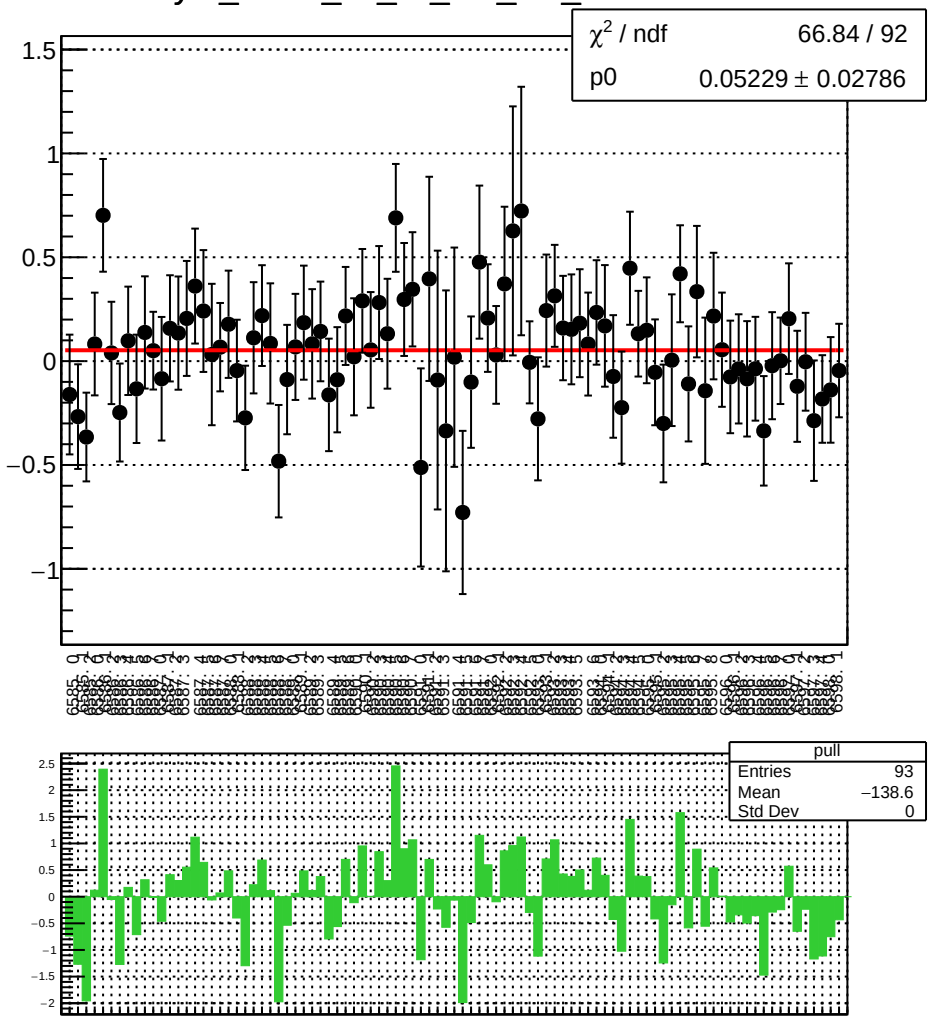

asym_sam7_mean vs run
χ² / ndf 108.6 / 92
p0 −153.4 ± 307
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1160
Std Dev 0
2
1
0
−1
−2

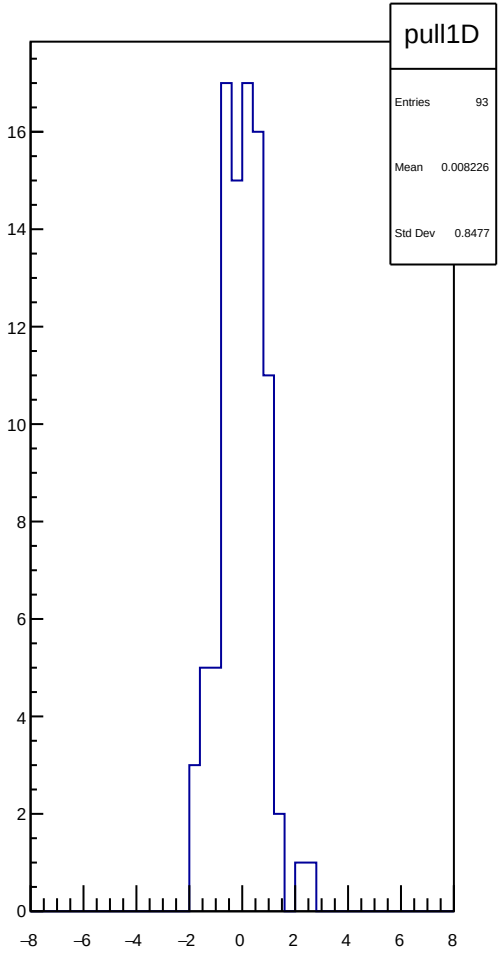

pull1D
Entries 93
Mean −0.002097
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

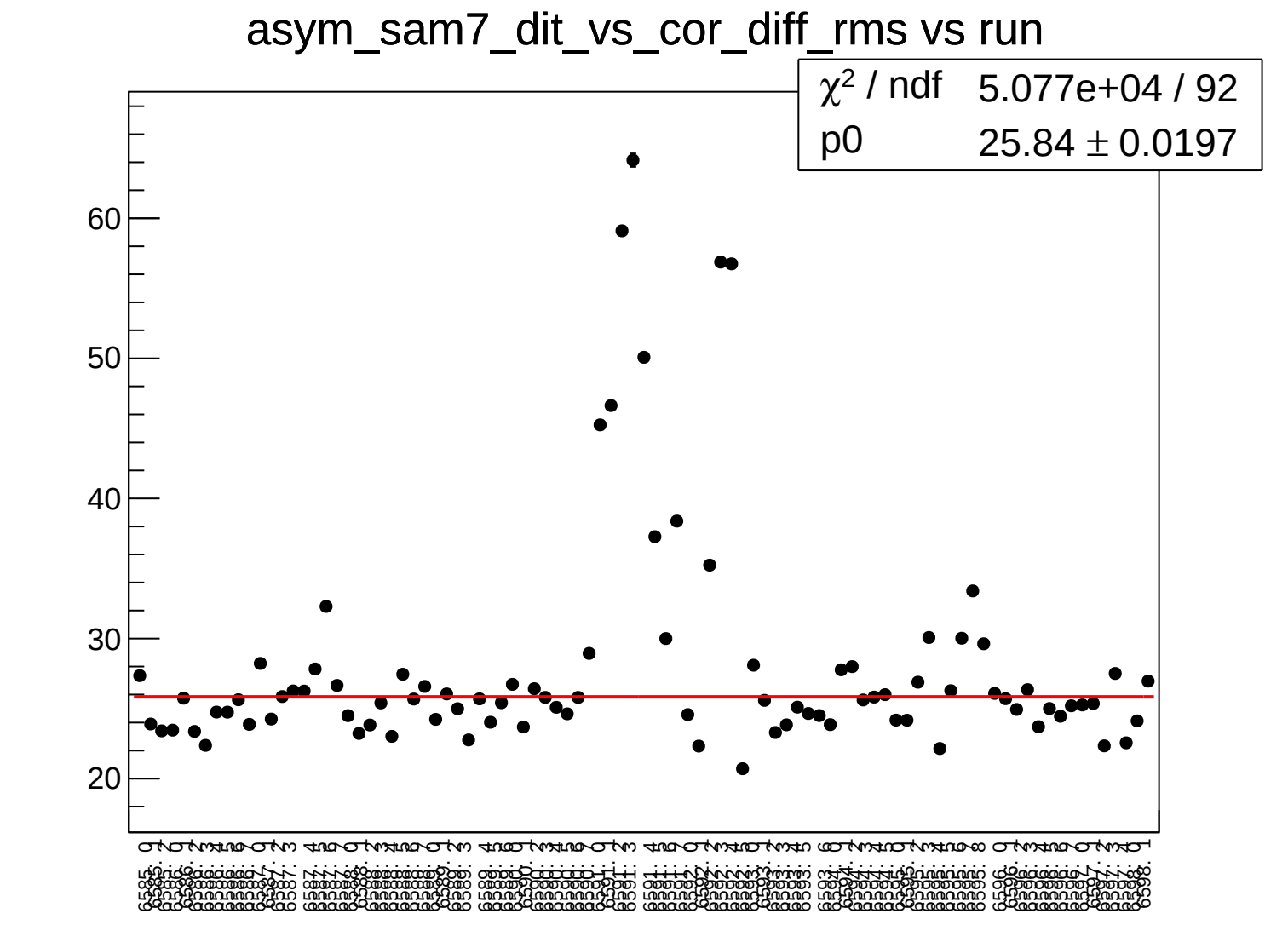

asym_sam7_rms vs run
χ² / ndf 1.787e+04 / 92
p0 287.4 ± 0.2171
400
380
360
340
320
300
280
260
240

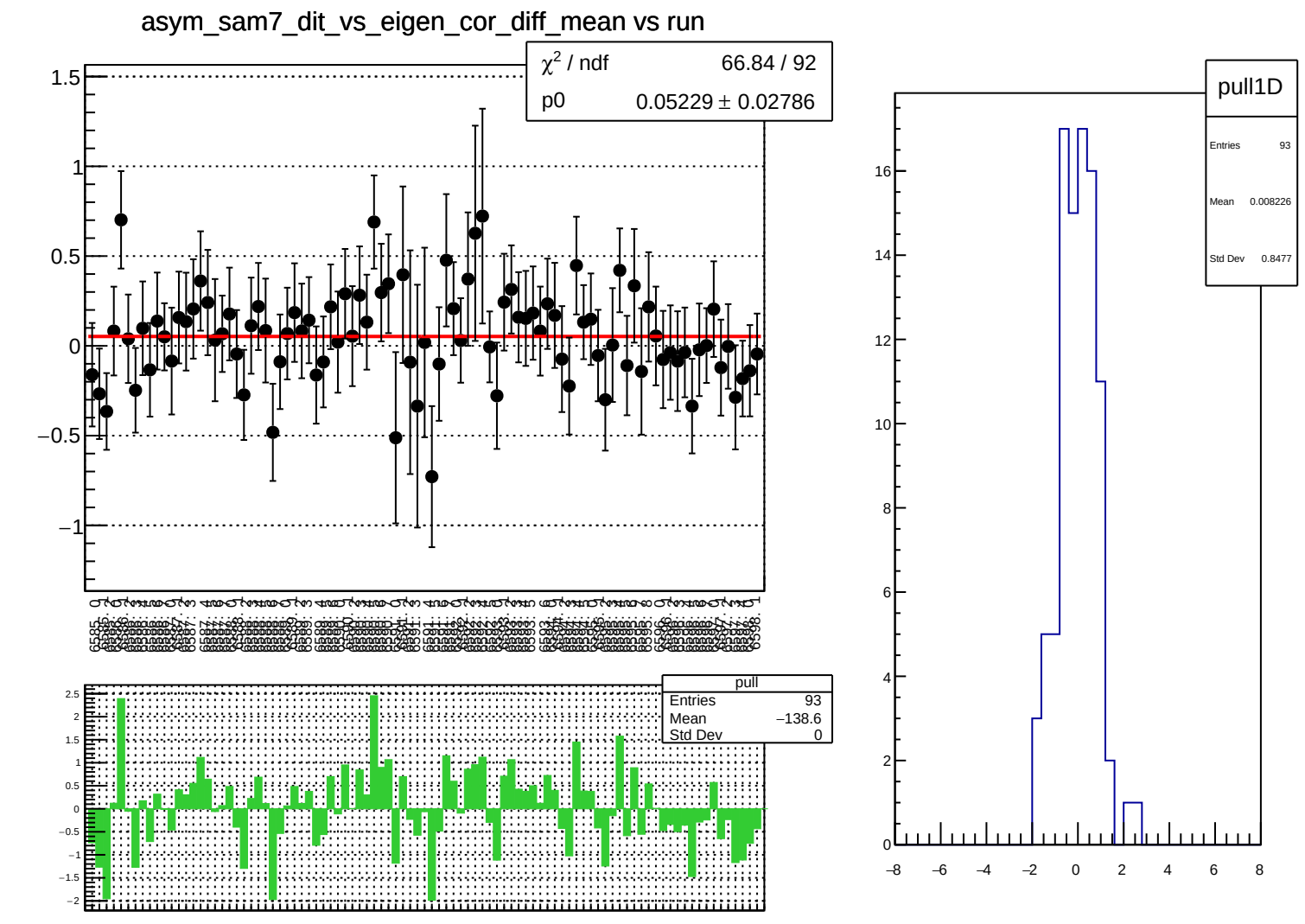

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 84.52 / 92
p0 1.392e−14 ± 2.033e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 93
Mean −753.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003317
Std Dev 0.9533
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

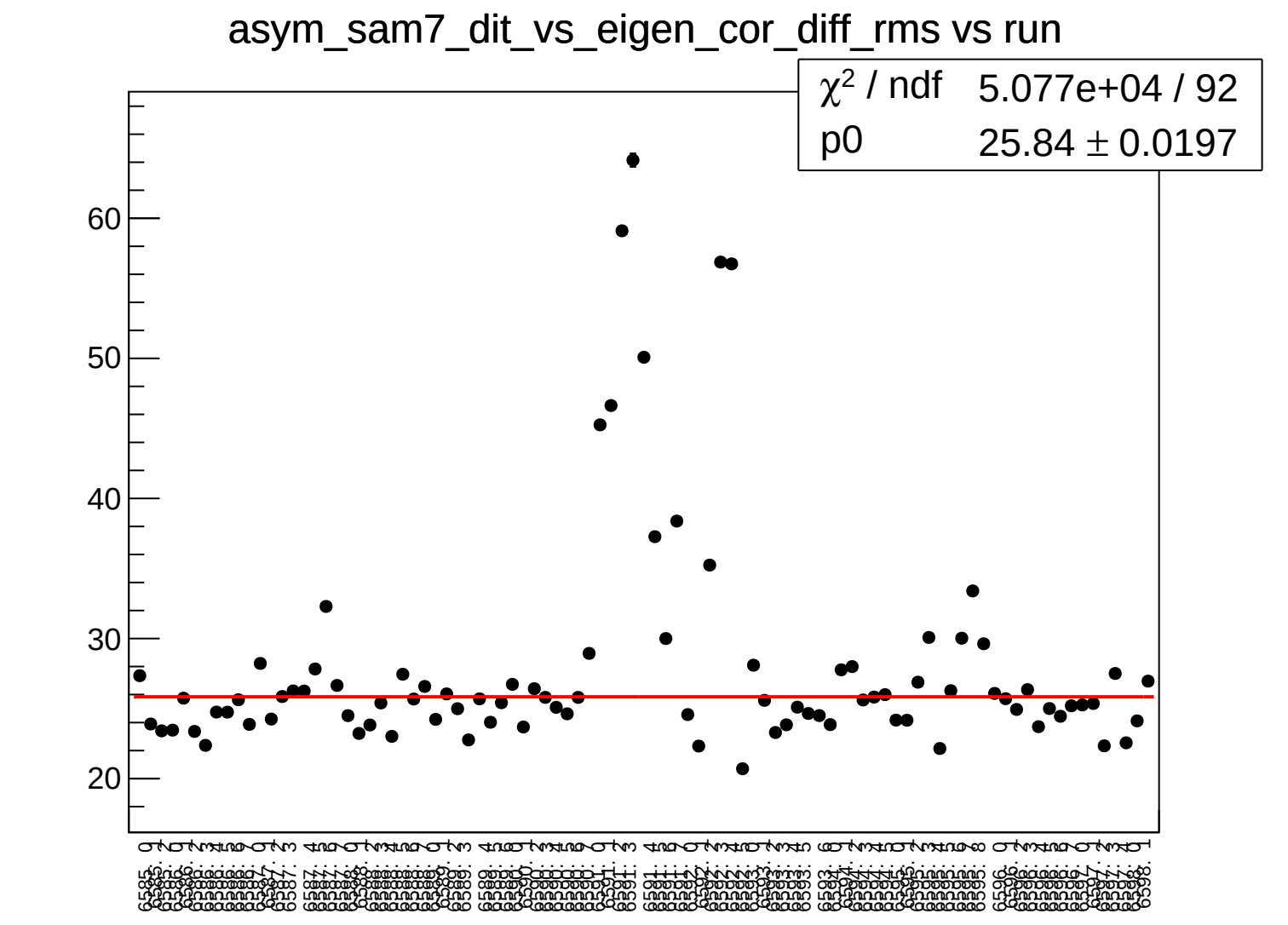

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.106e+06 / 92
p0 1.172e−11 ± 1.438e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

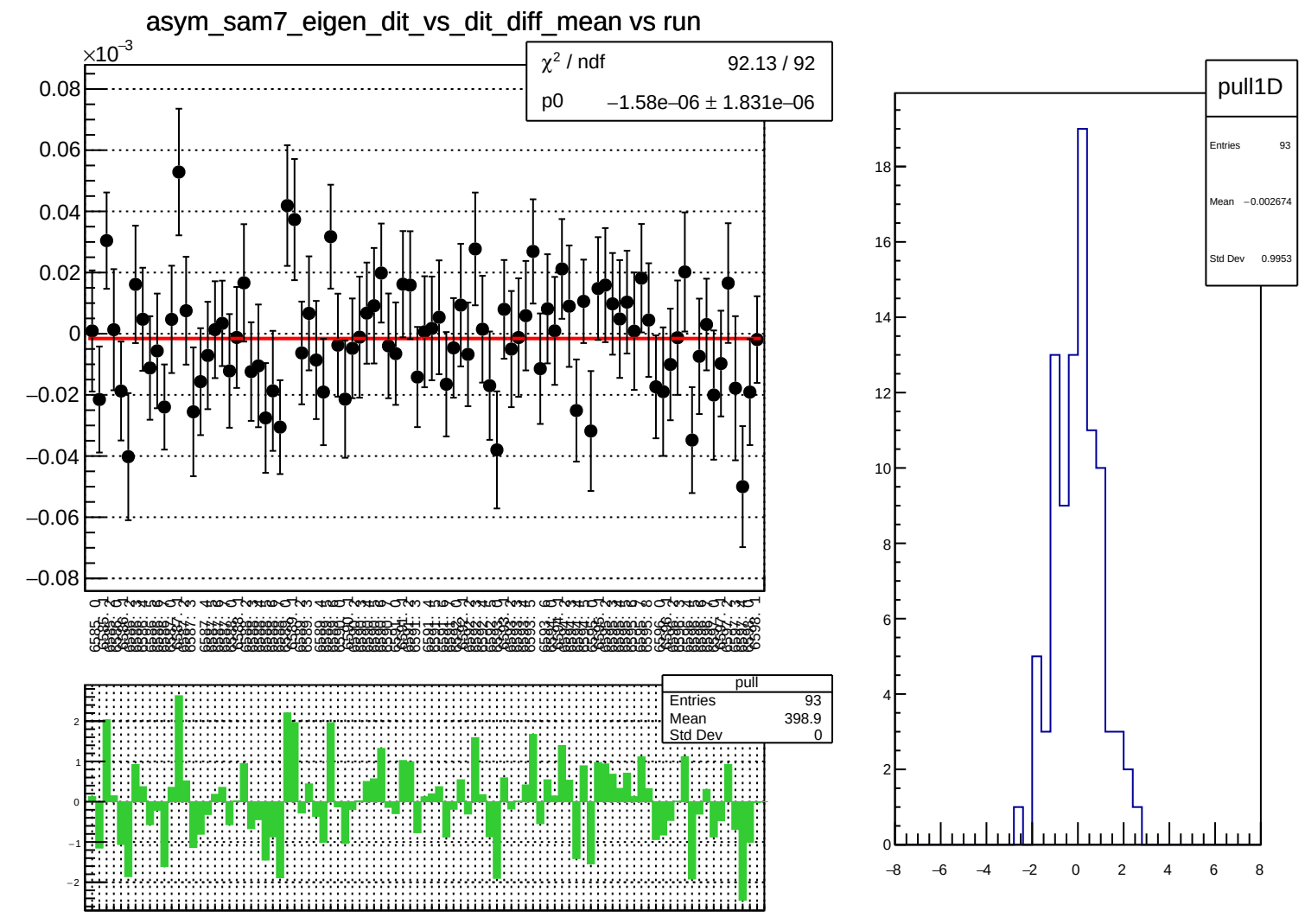

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 66.84 / 92
p0 0.05229 ± 0.02786
pull
Entries 93
Mean −138.6
Std Dev 0

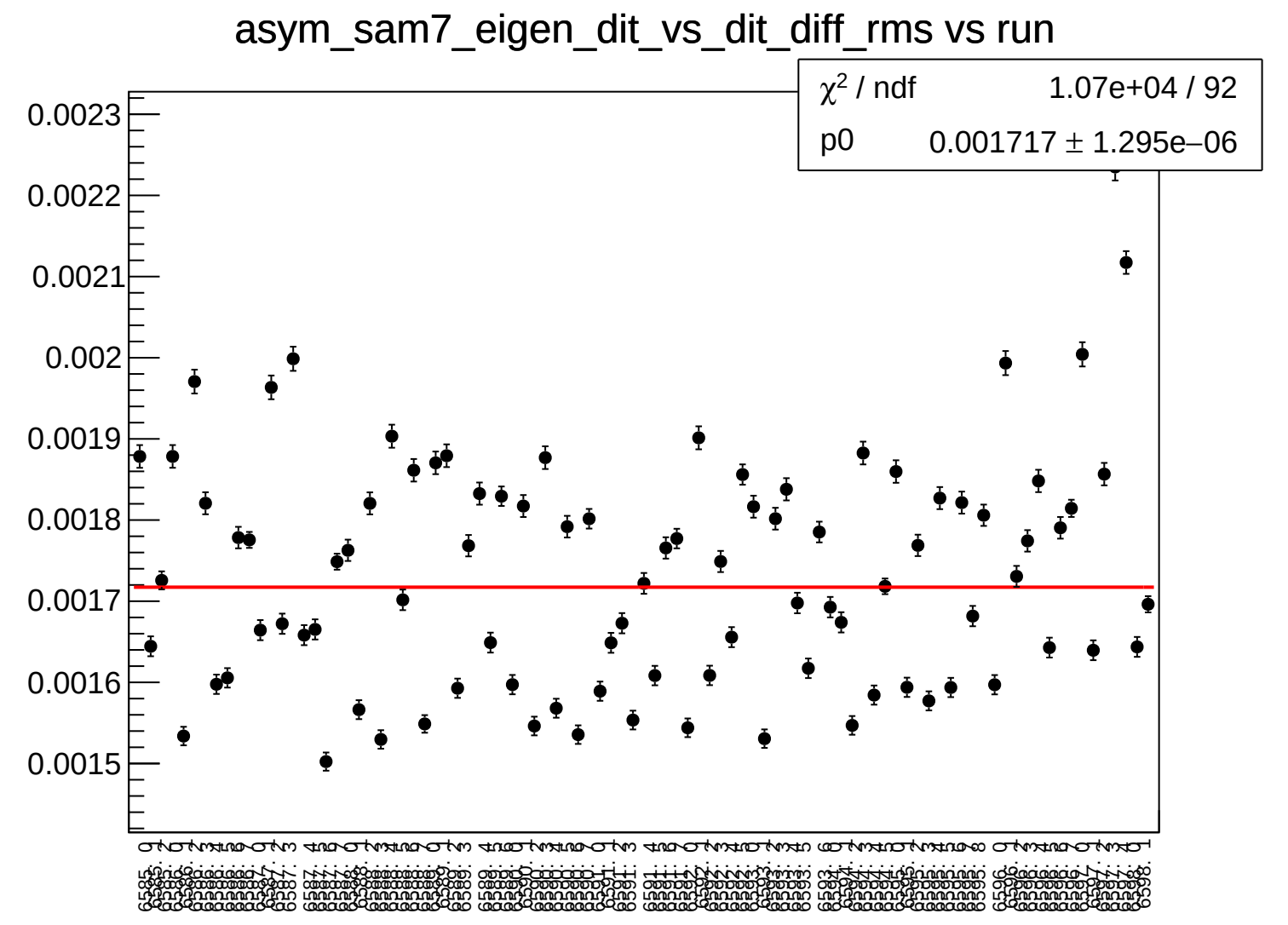

pull1D
Entries 93
Mean 0.008226
Std Dev 0.8477

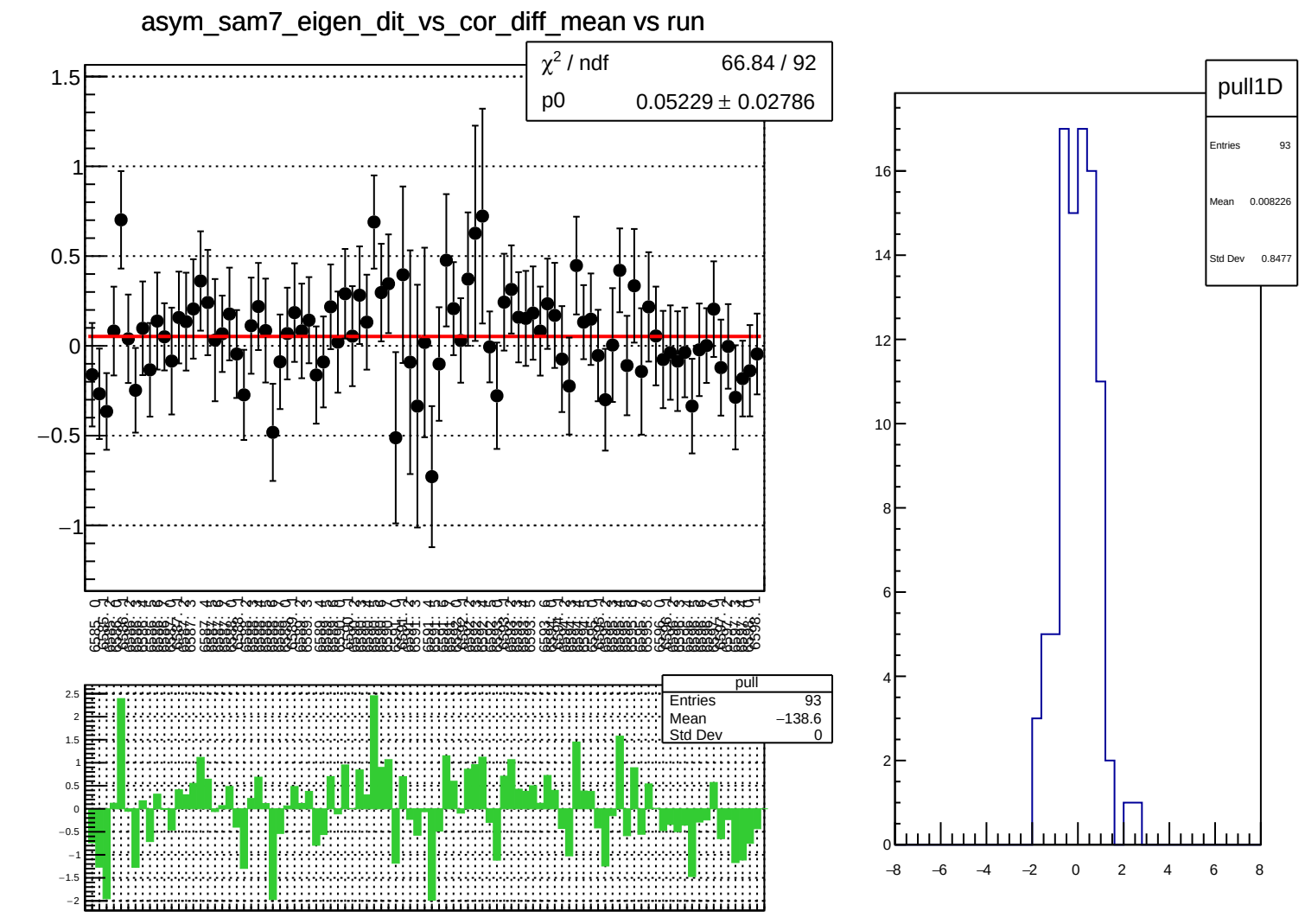

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 5.077e+04 / 92
p0 25.84 ± 0.0197
60
50
40
30
20

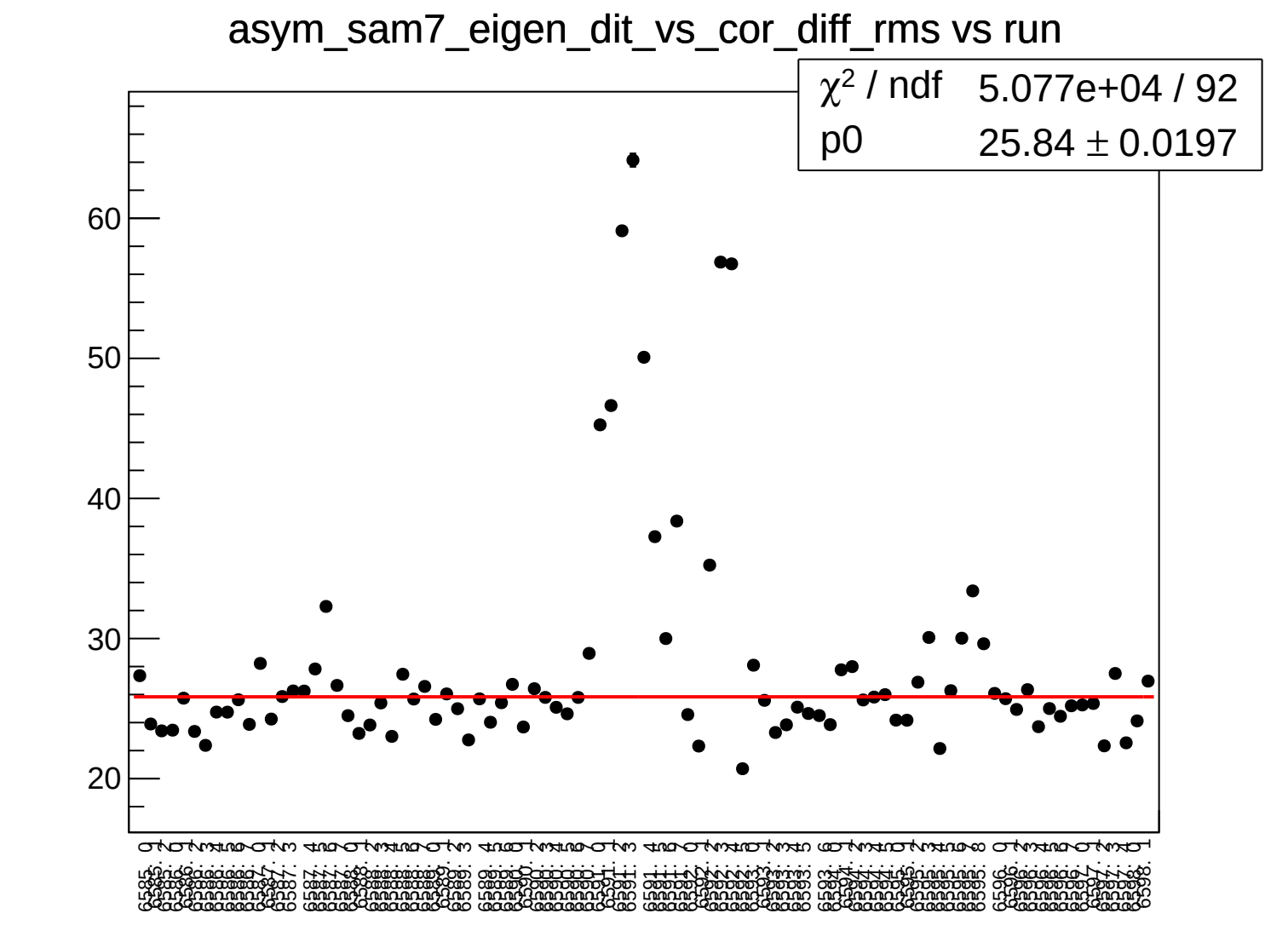

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.84 / 92
p0 0.05229 ± 0.02786
pull
Entries 93
Mean −138.6
Std Dev 0
pull1D
Entries 93
Mean 0.008226
Std Dev 0.8477

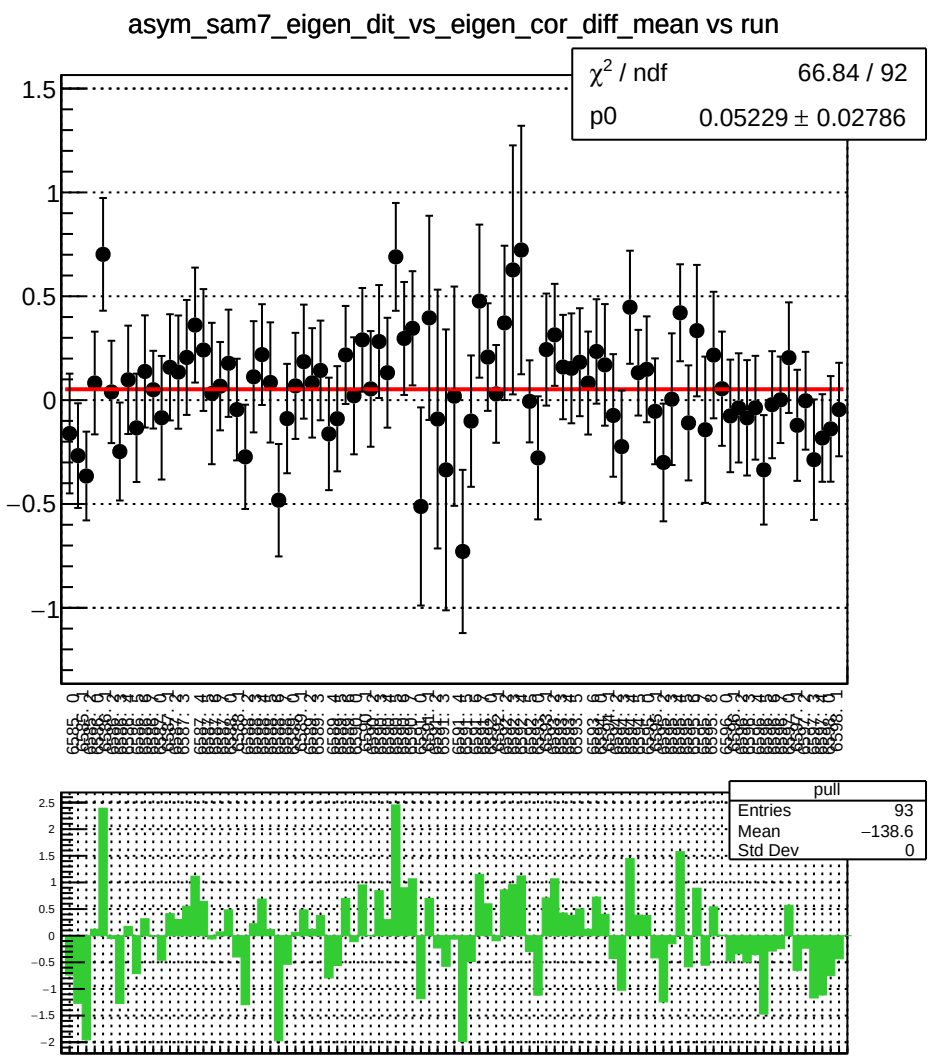

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.077e+04 / 92
p0 25.84 ± 0.0197
60
50
40
30
20

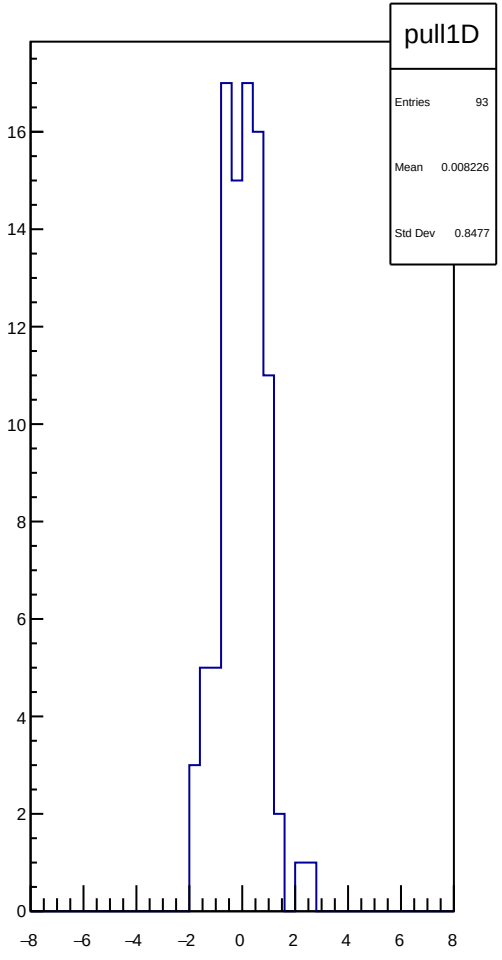

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.13 / 92
p0 −1.58e−06 ± 1.831e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 93
Mean 398.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.002674
Std Dev 0.9953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

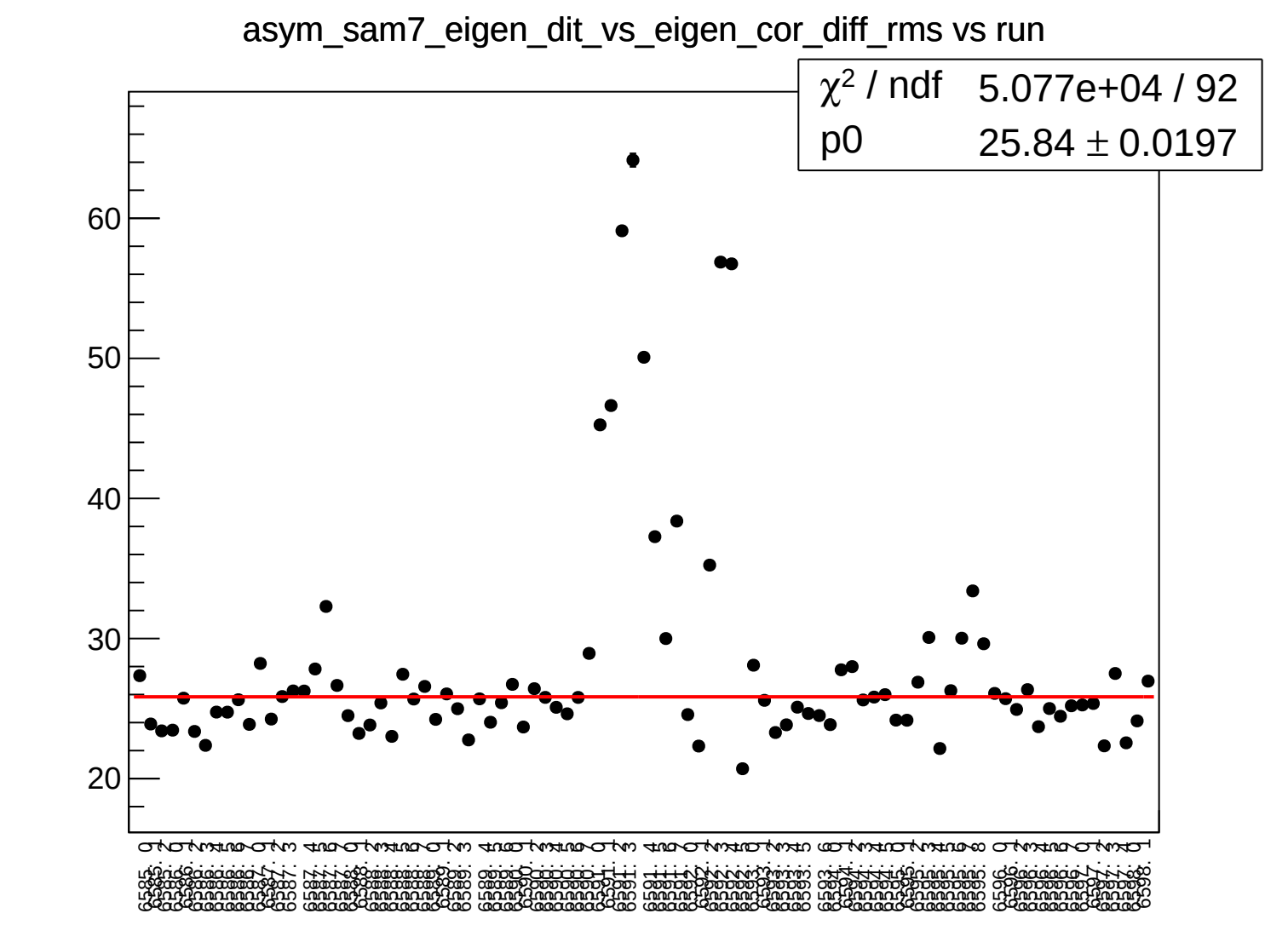

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.07e+04 / 92
p0 0.001717 ± 1.295e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

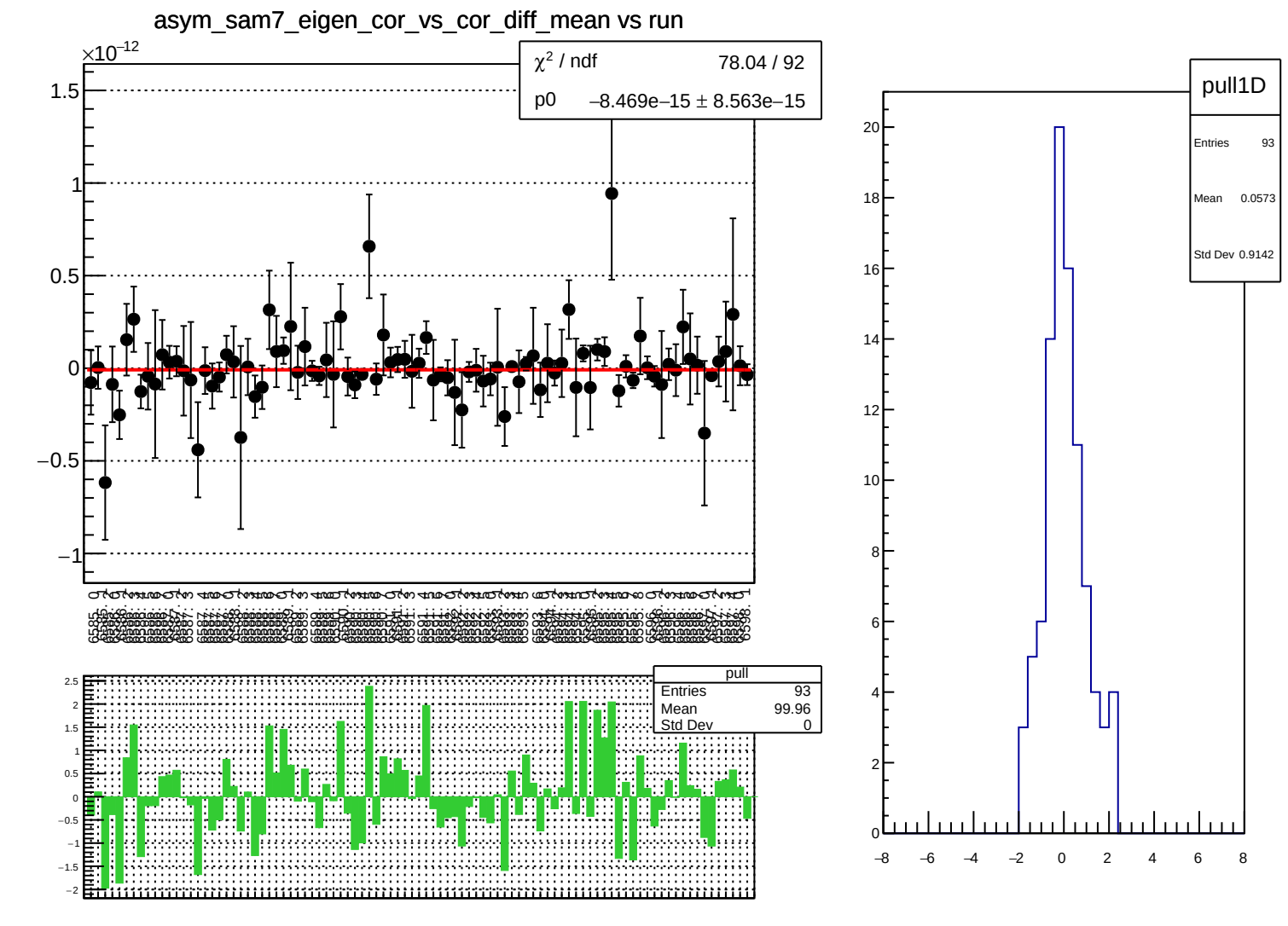

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.84 / 92
p0 0.05229 ± 0.02786
pull
Entries 93
Mean −138.6
Std Dev 0
pull1D
Entries 93
Mean 0.008226
Std Dev 0.8477

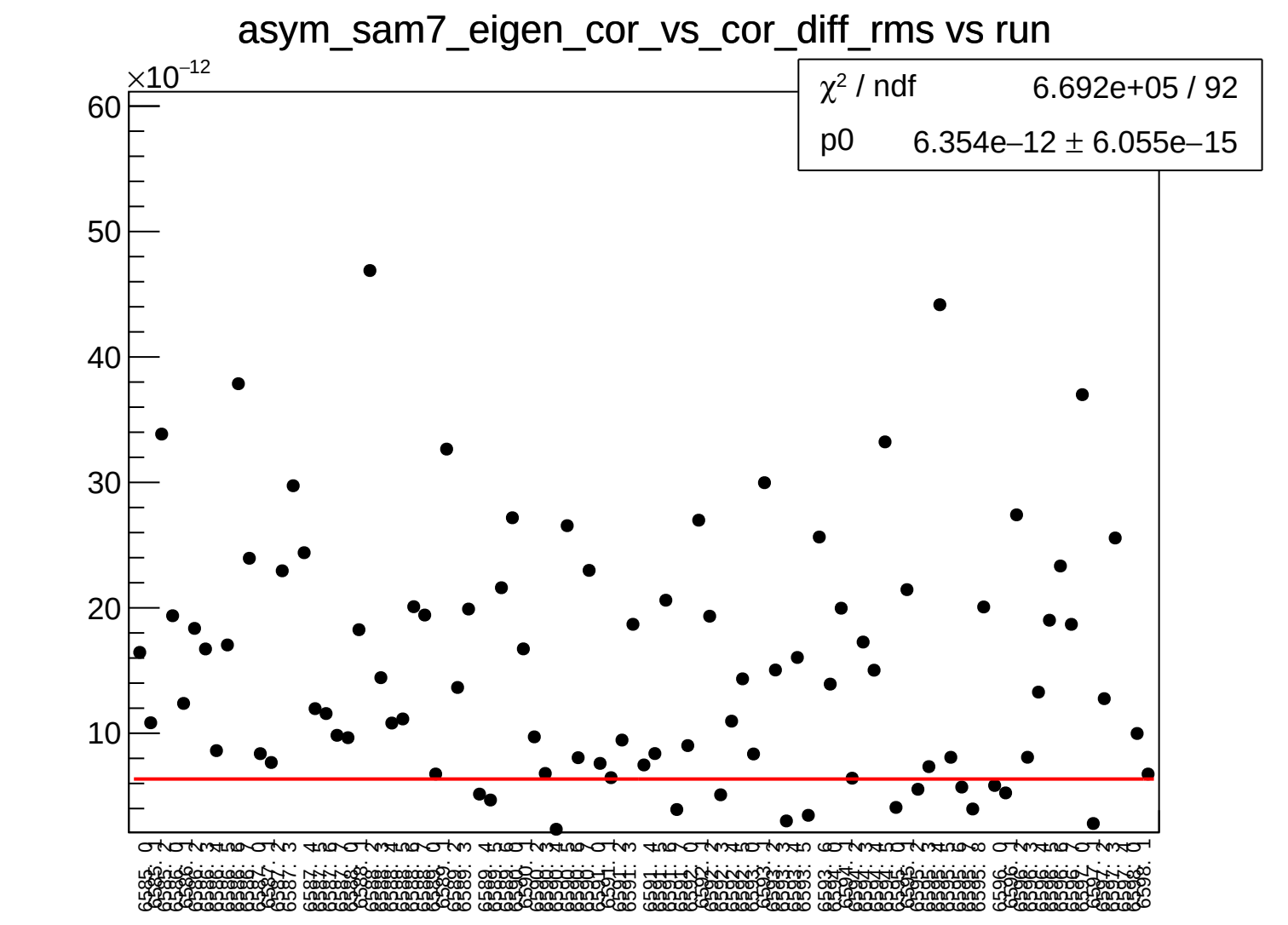

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.077e+04 / 92
p0 25.84 ± 0.0197
60
50
40
30
20

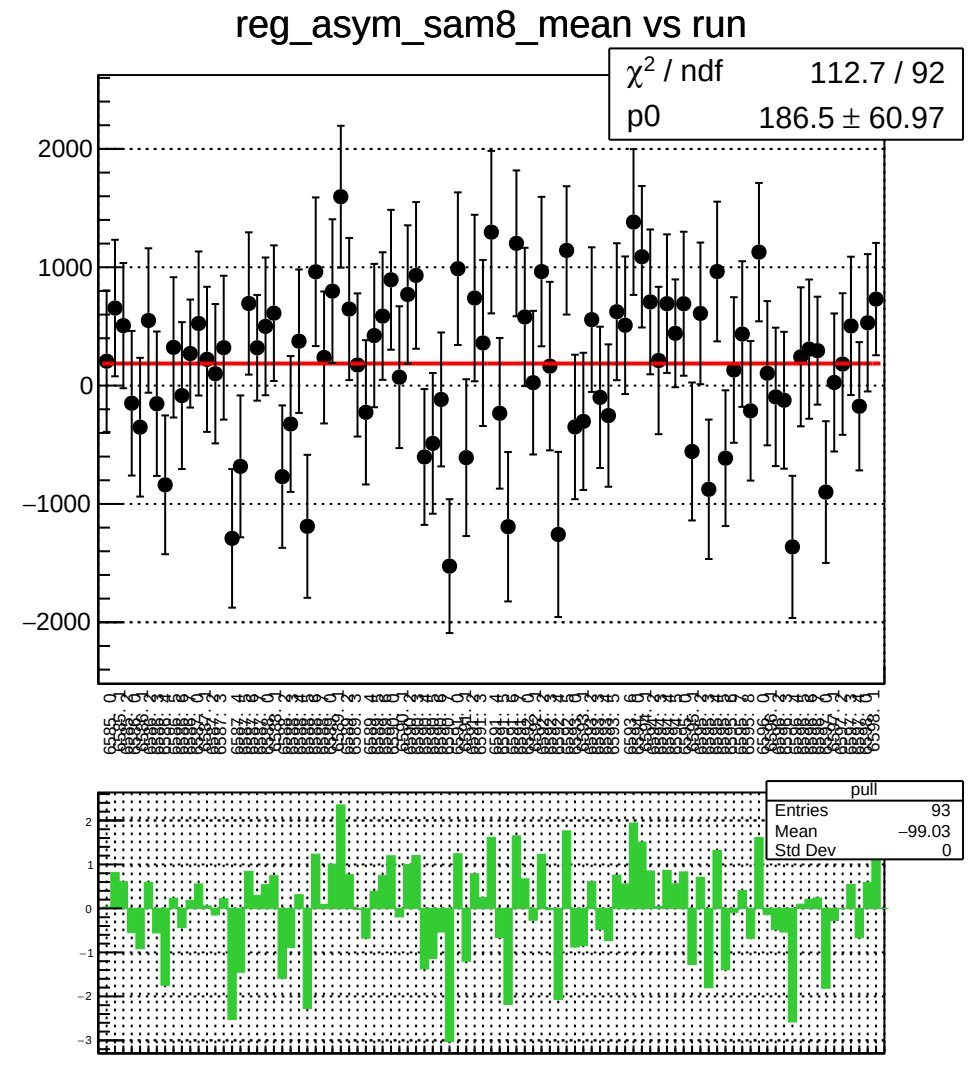

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.84 / 92
p0 0.05229 ± 0.02786
pull
Entries 93
Mean −138.6
Std Dev 0

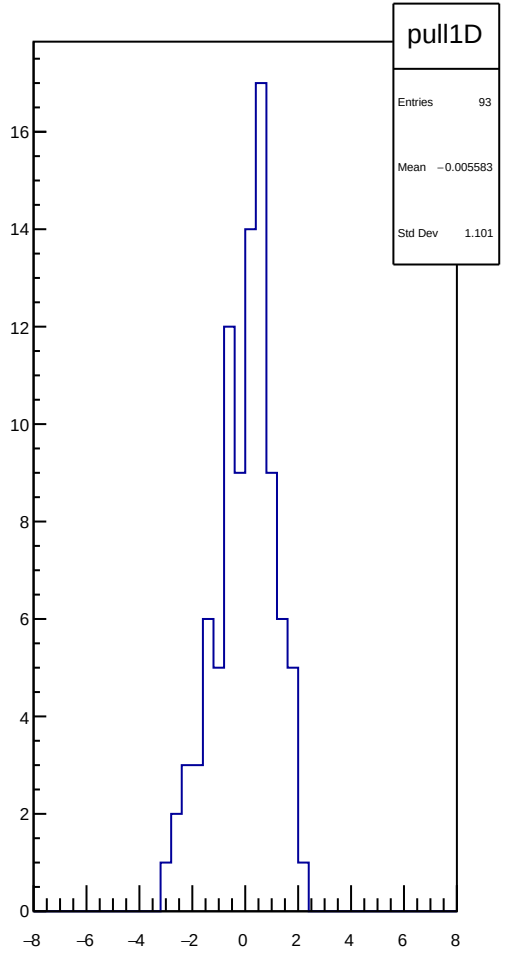

pull1D
Entries 93
Mean 0.008226
Std Dev 0.8477

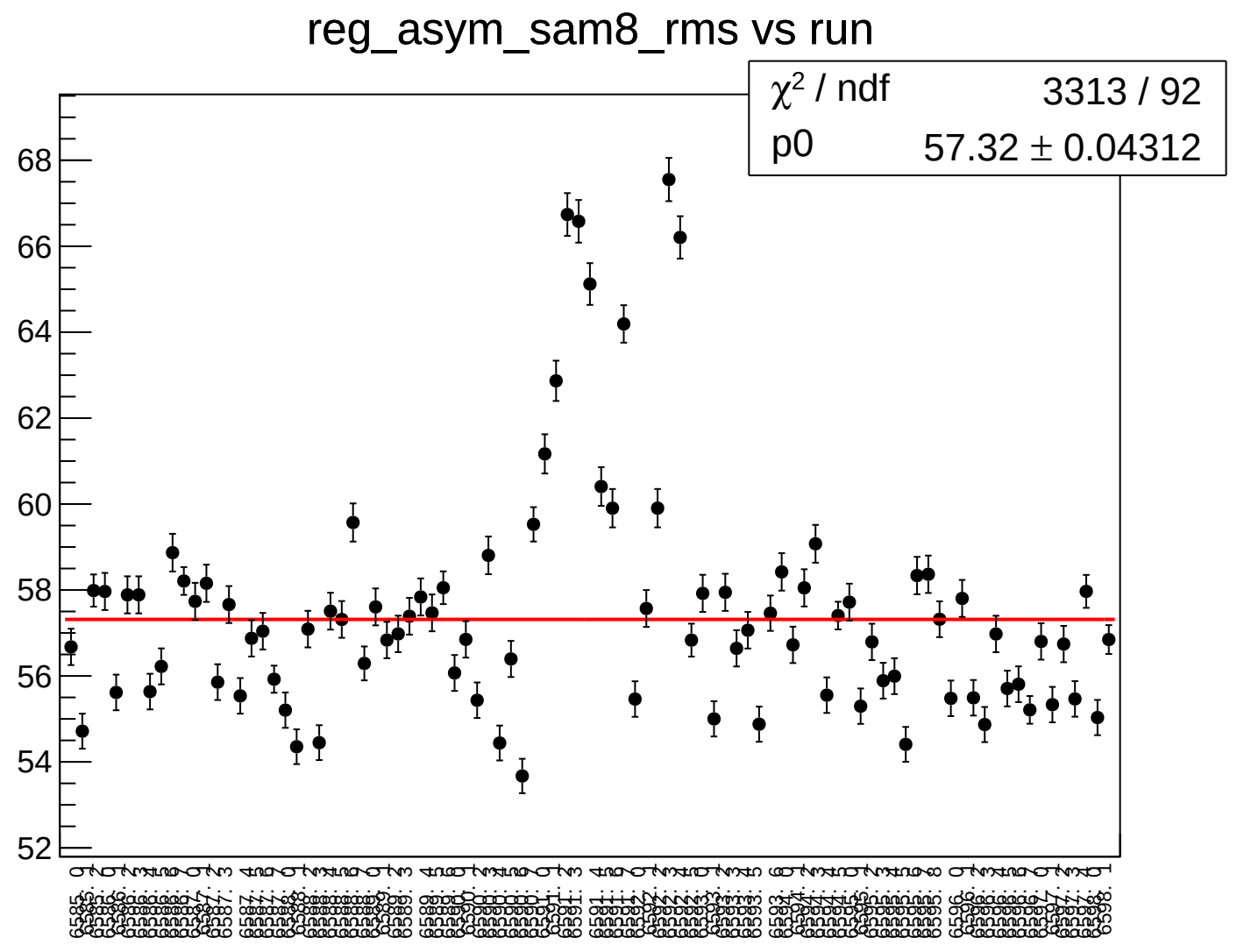

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.077e+04 / 92
p0 25.84 ± 0.0197
60
50
40
30
20

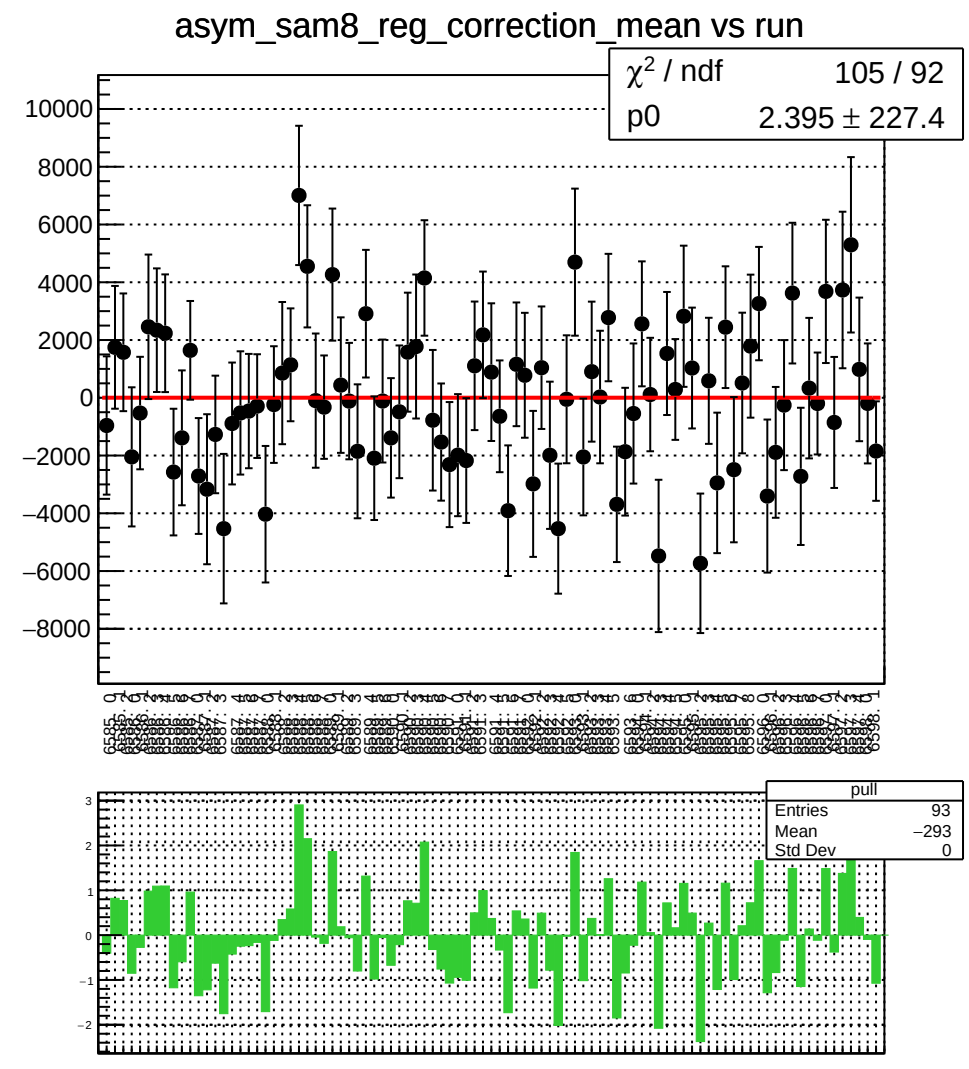

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.04 / 92
p0 −8.469e−15 ± 8.563e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 93
Mean 99.96
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.0573
Std Dev 0.9142
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

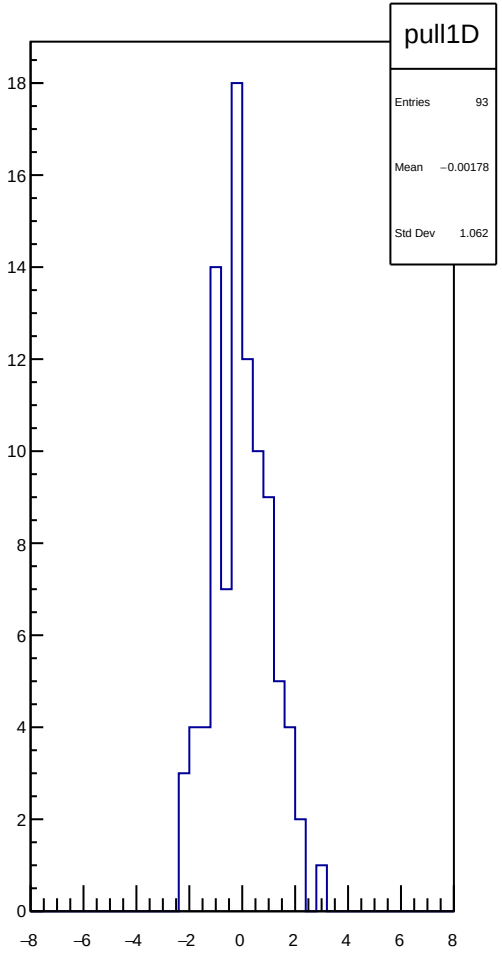

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 6.692e+05 / 92
p0 6.354e−12 ± 6.055e−15

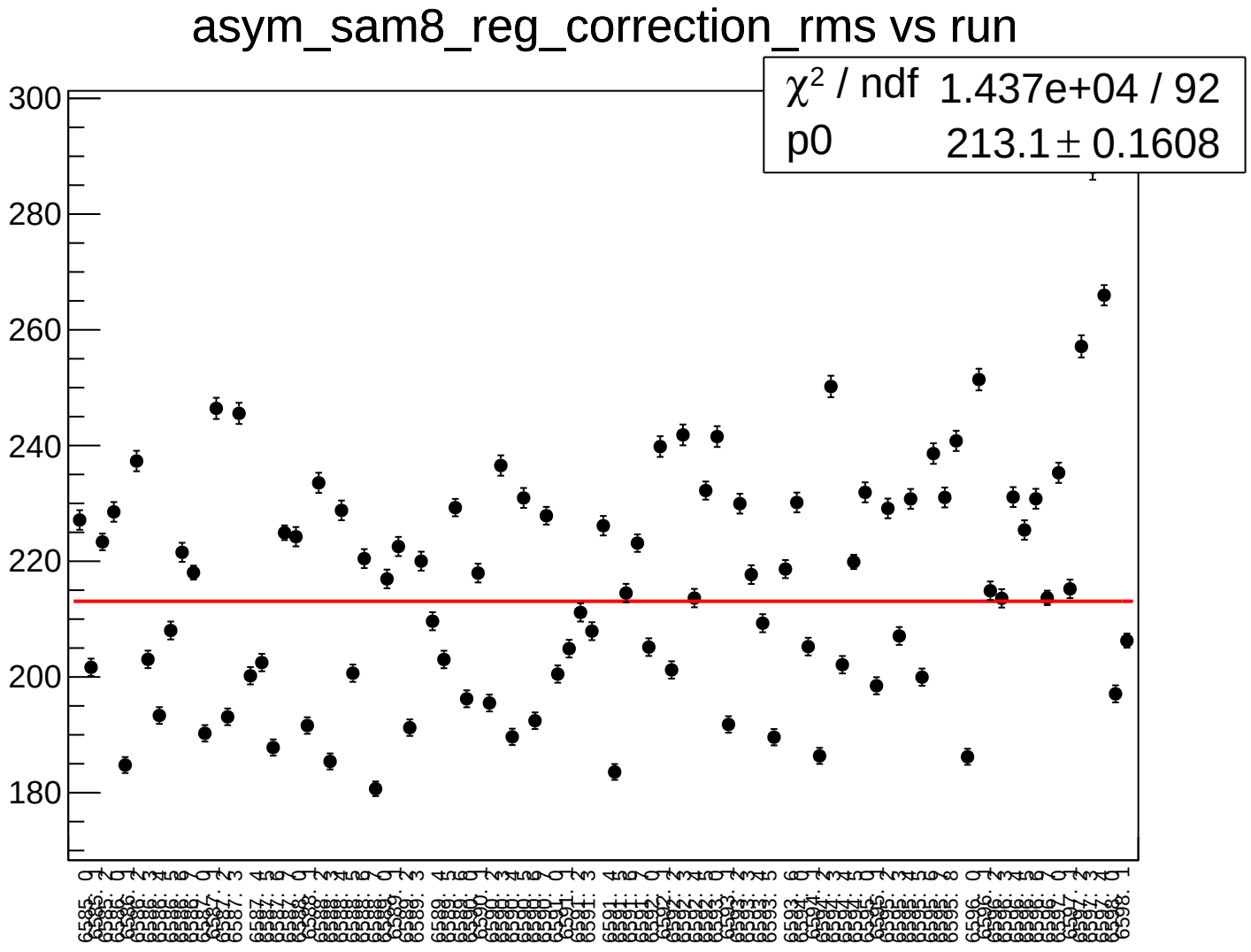

reg_asym_sam8_mean vs run
χ² / ndf 112.7 / 92
p0 186.5 ± 60.97
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −99.03
Std Dev 0
2
1
0
−1
−2
−3

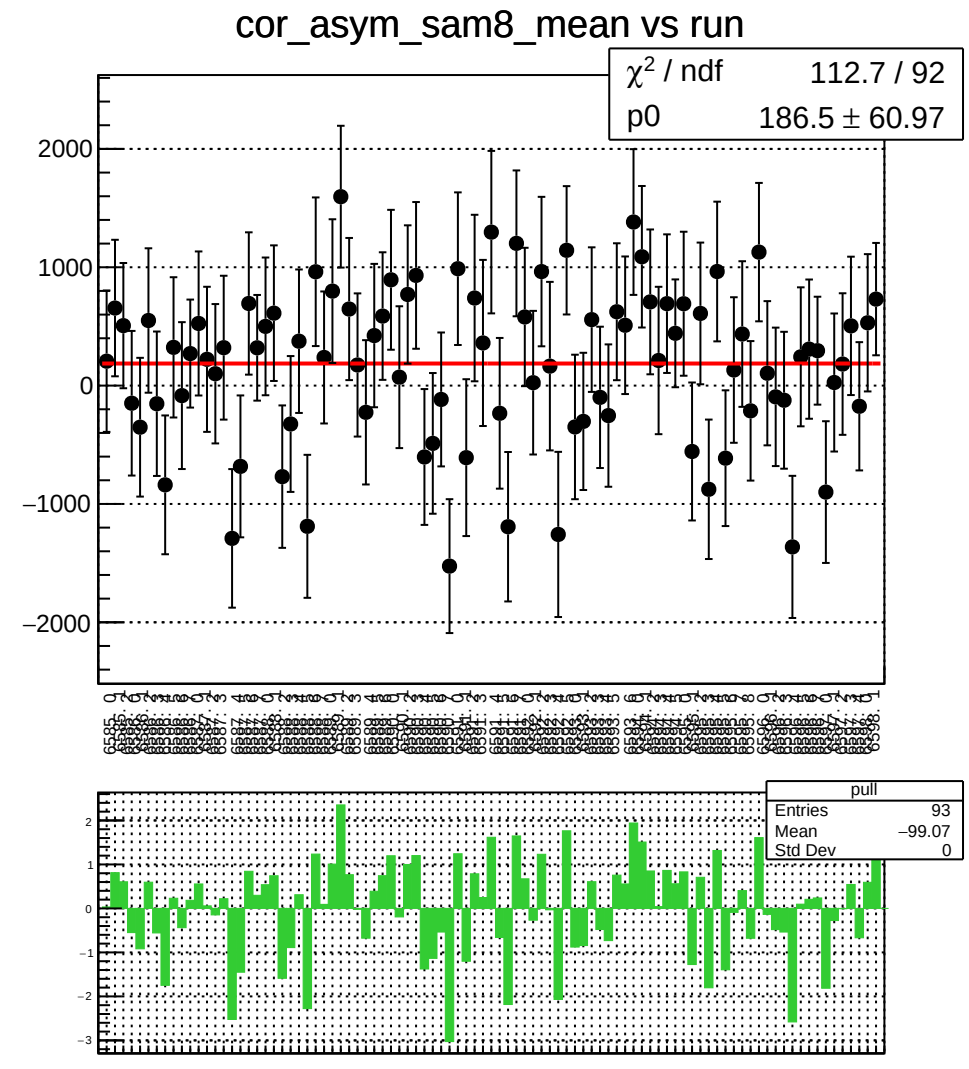

pull1D
Entries 93
Mean −0.005583
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

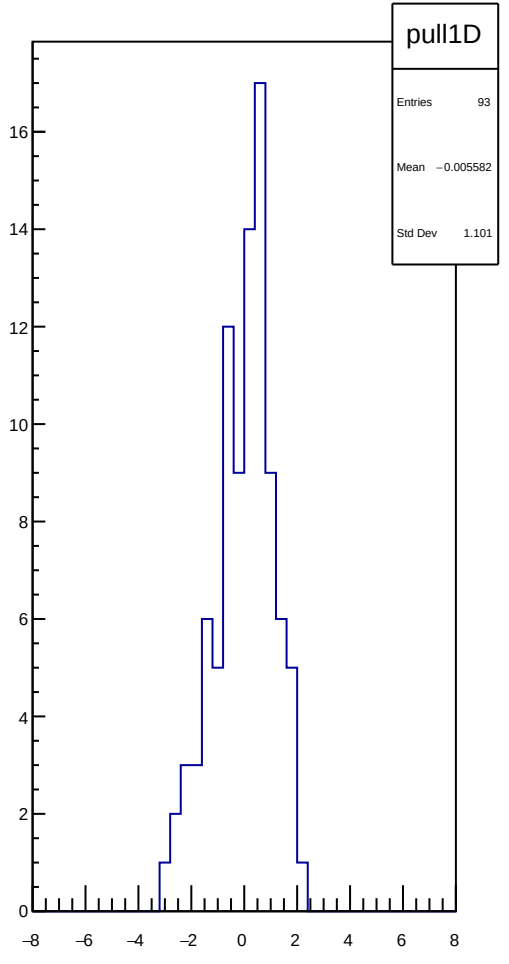

reg_asym_sam8_rms vs run
χ² / ndf 3313 / 92
p0 57.32 ± 0.04312
68
66
64
62
60
58
56
54
52

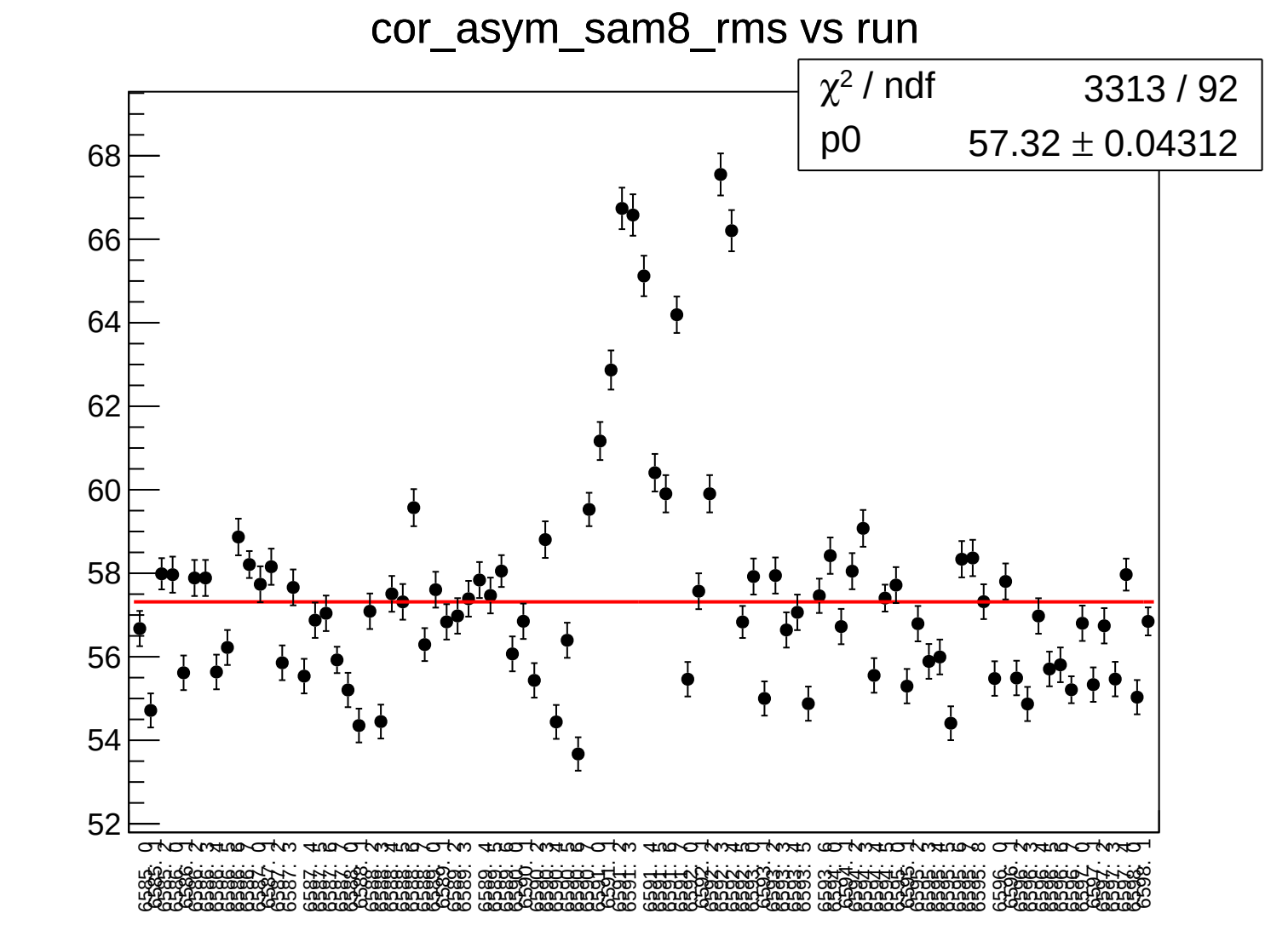

asym_sam8_reg_correction_mean vs run
χ² / ndf 105 / 92
p0 2.395 ± 227.4
pull
Entries 93
Mean −293
Std Dev 0

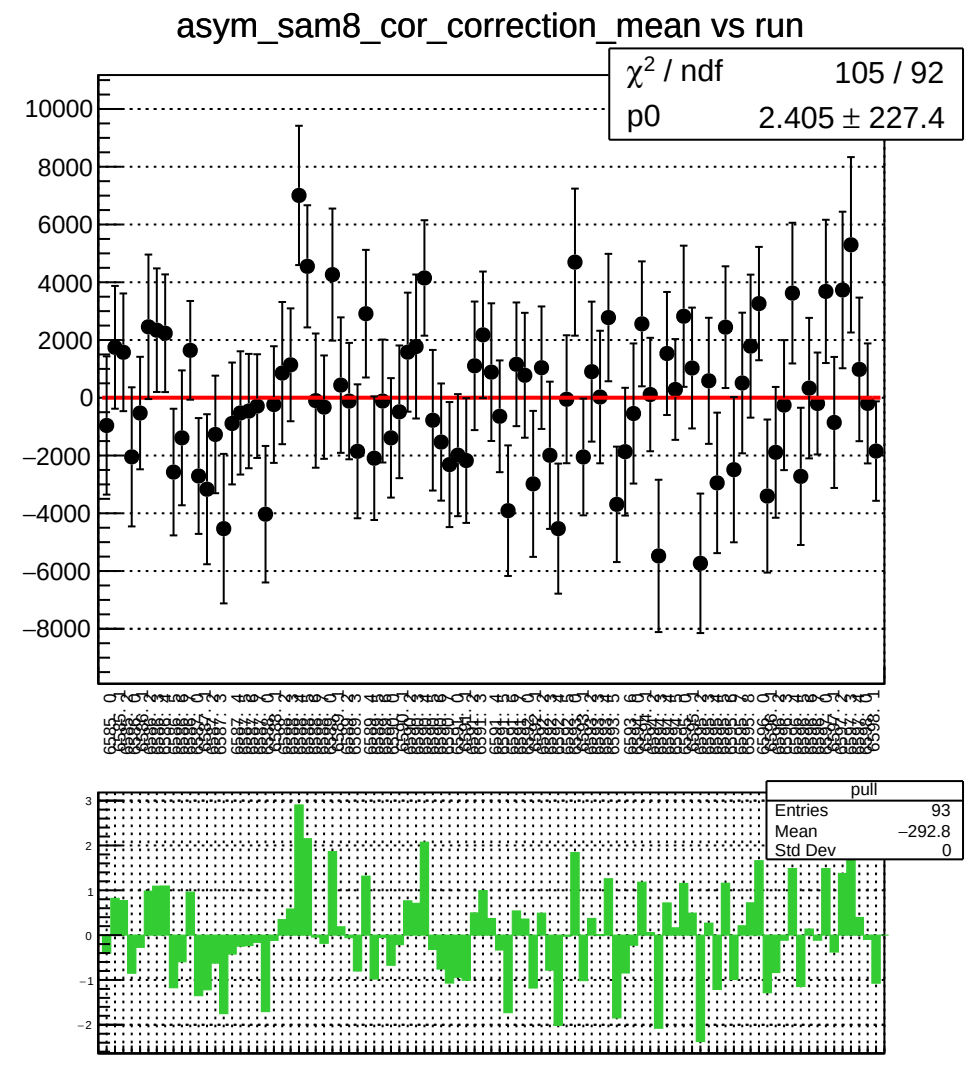

pull1D
Entries 93
Mean −0.00178
Std Dev 1.062

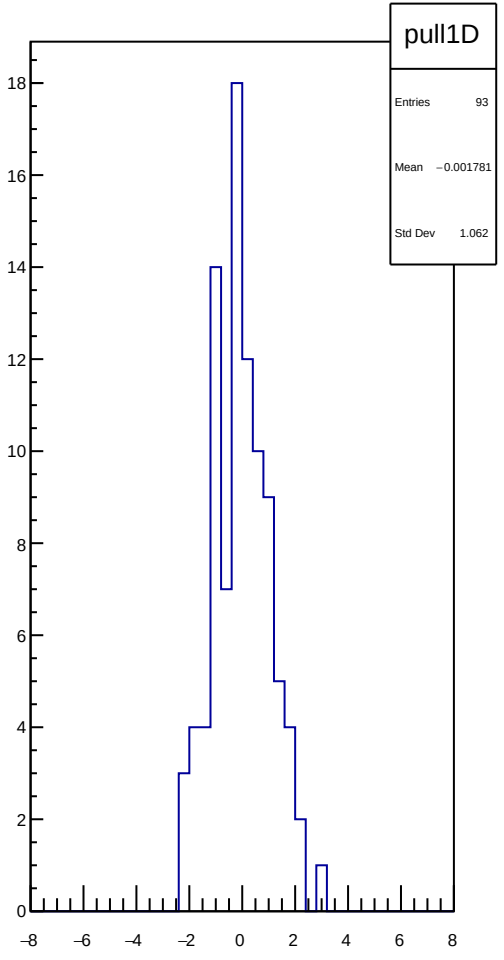

asym_sam8_reg_correction_rms vs run
χ² / ndf 1.437e+04 / 92
p0 213.1 ± 0.1608
300
280
260
240
220
200
180

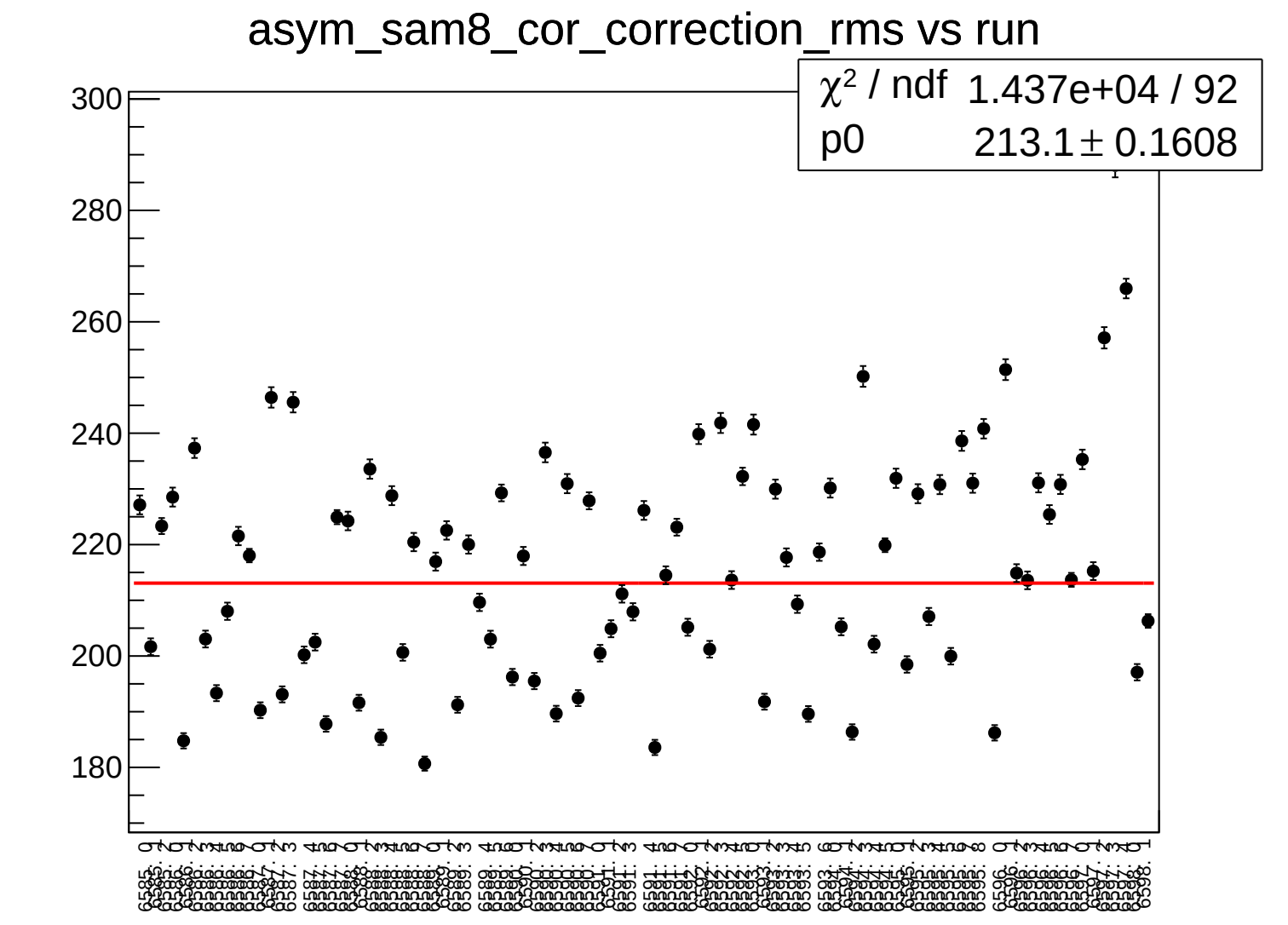

cor_asym_sam8_mean vs run
χ² / ndf 112.7 / 92
p0 186.5 ± 60.97
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −99.07
Std Dev 0
2
1
0
−1
−2
−3

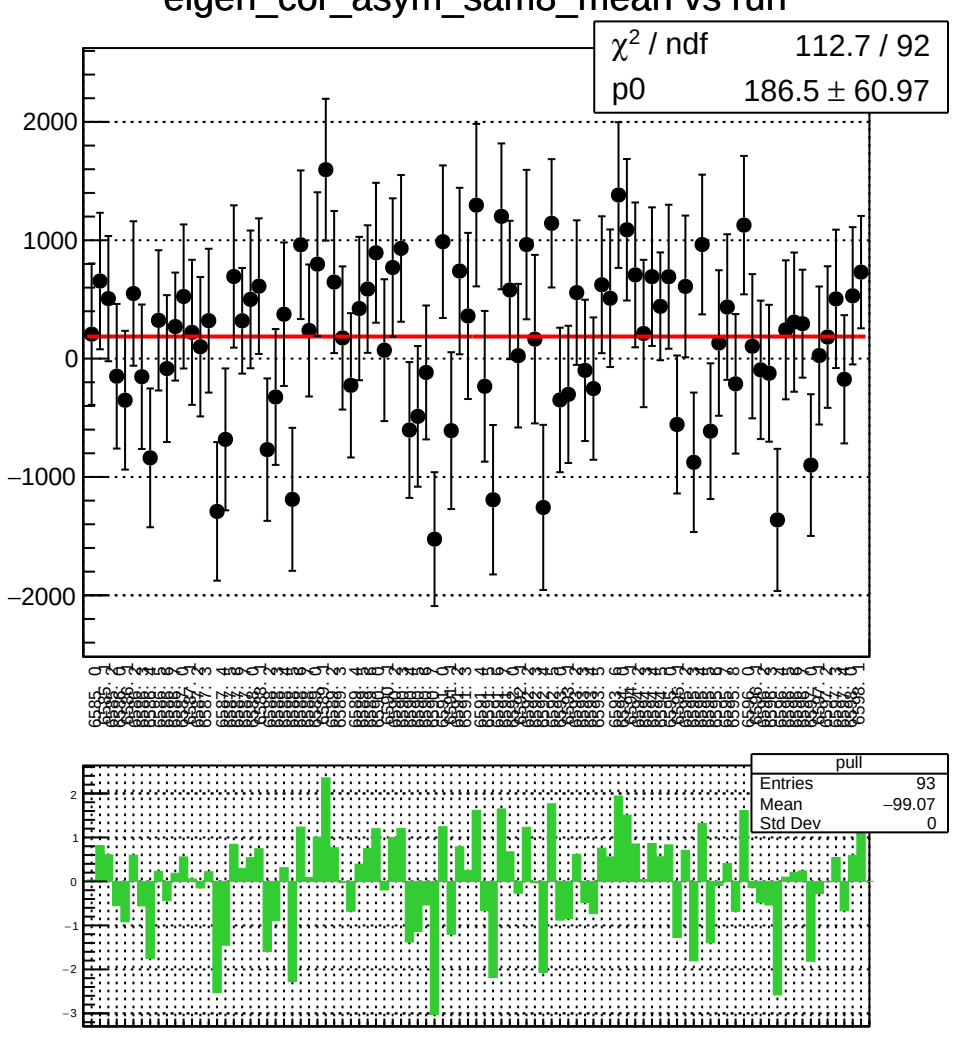

pull1D
Entries 93
Mean −0.005582
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

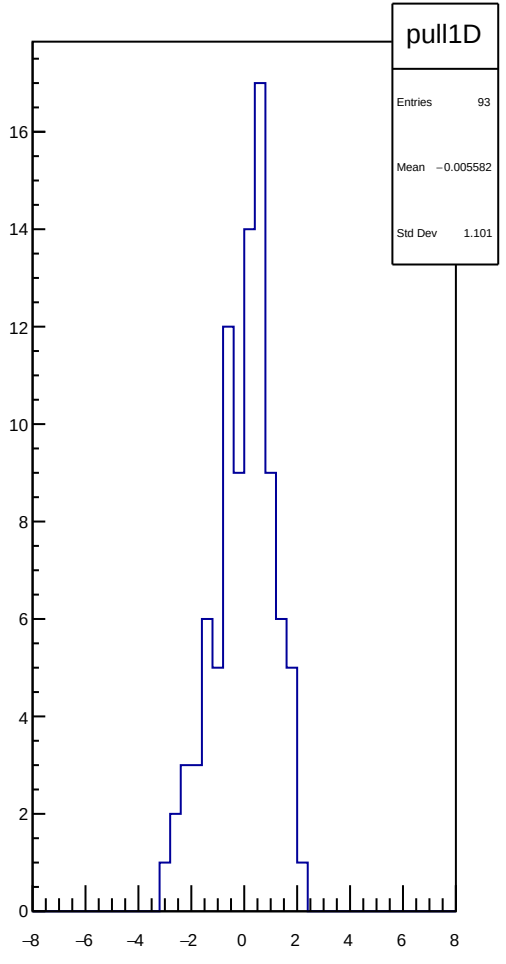

cor_asym_sam8_rms vs run
χ² / ndf 3313 / 92
p0 57.32 ± 0.04312
68
66
64
62
60
58
56
54
52

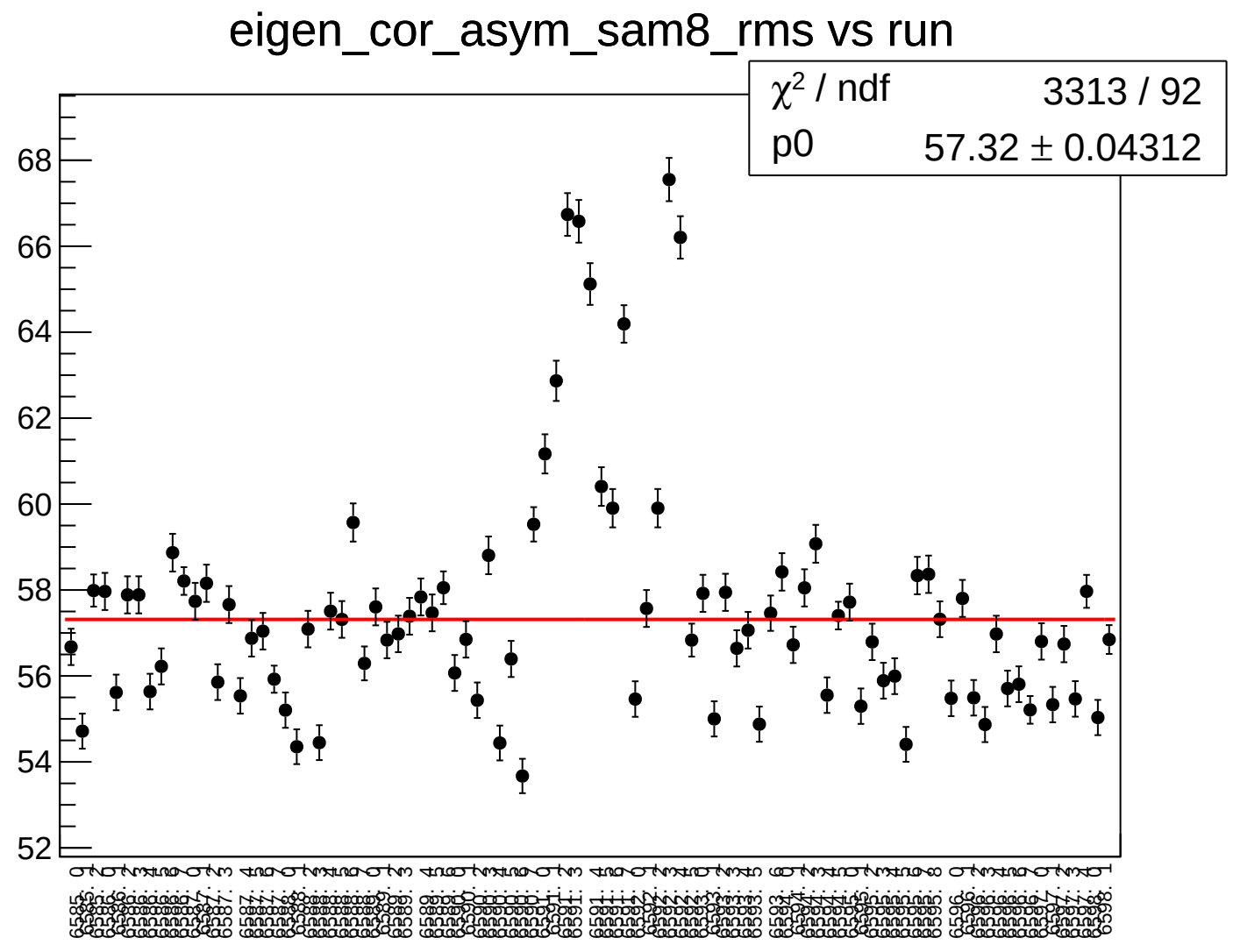

asym_sam8_cor_correction_mean vs run
χ² / ndf 105 / 92
p0 2.405 ± 227.4
pull
Entries 93
Mean −292.8
Std Dev 0

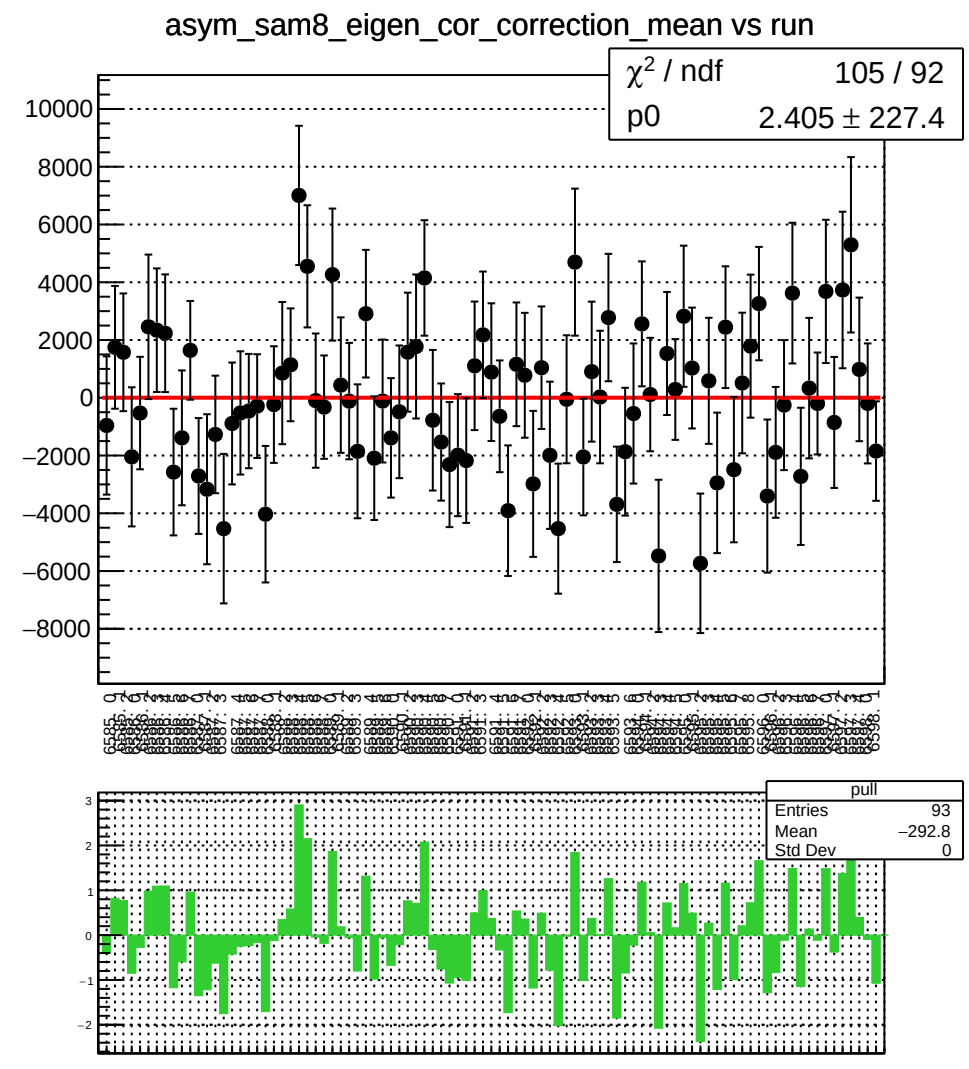

pull1D
Entries 93
Mean −0.001781
Std Dev 1.062

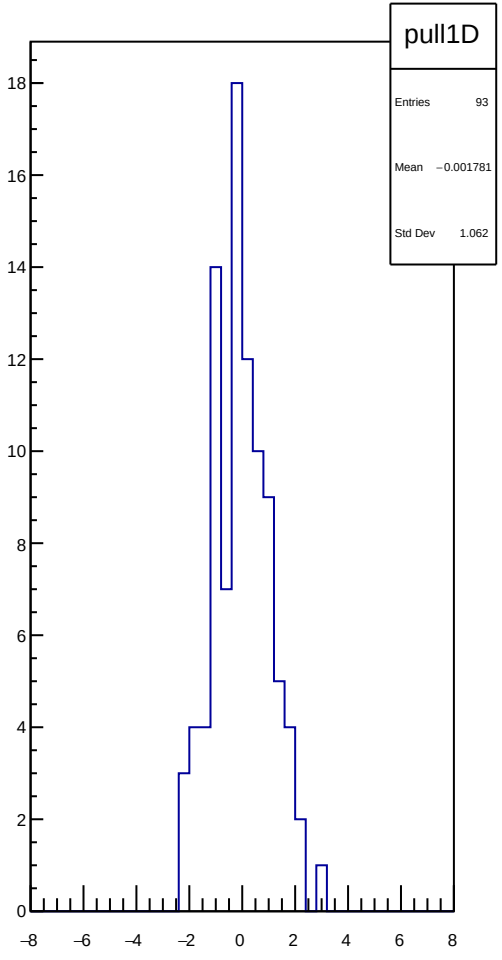

asym_sam8_cor_correction_rms vs run
χ² / ndf 1.437e+04 / 92
p0 213.1 ± 0.1608
300
280
260
240
220
200
180

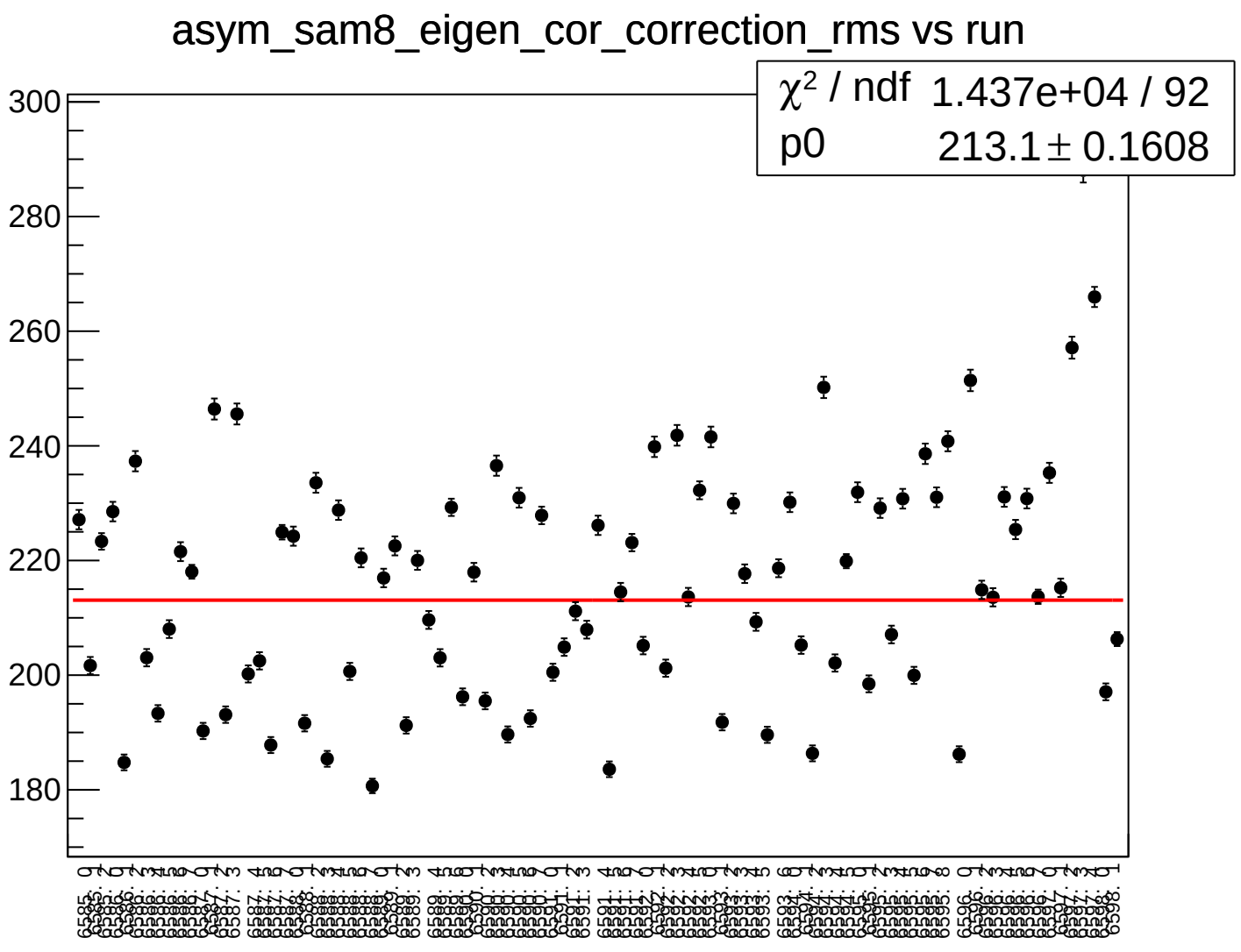

eigen_cor_asym_sam8_mean vs run
χ² / ndf 112.7 / 92
p0 186.5 ± 60.97
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −99.07
Std Dev 0
2
1
0
−1
−2
−3

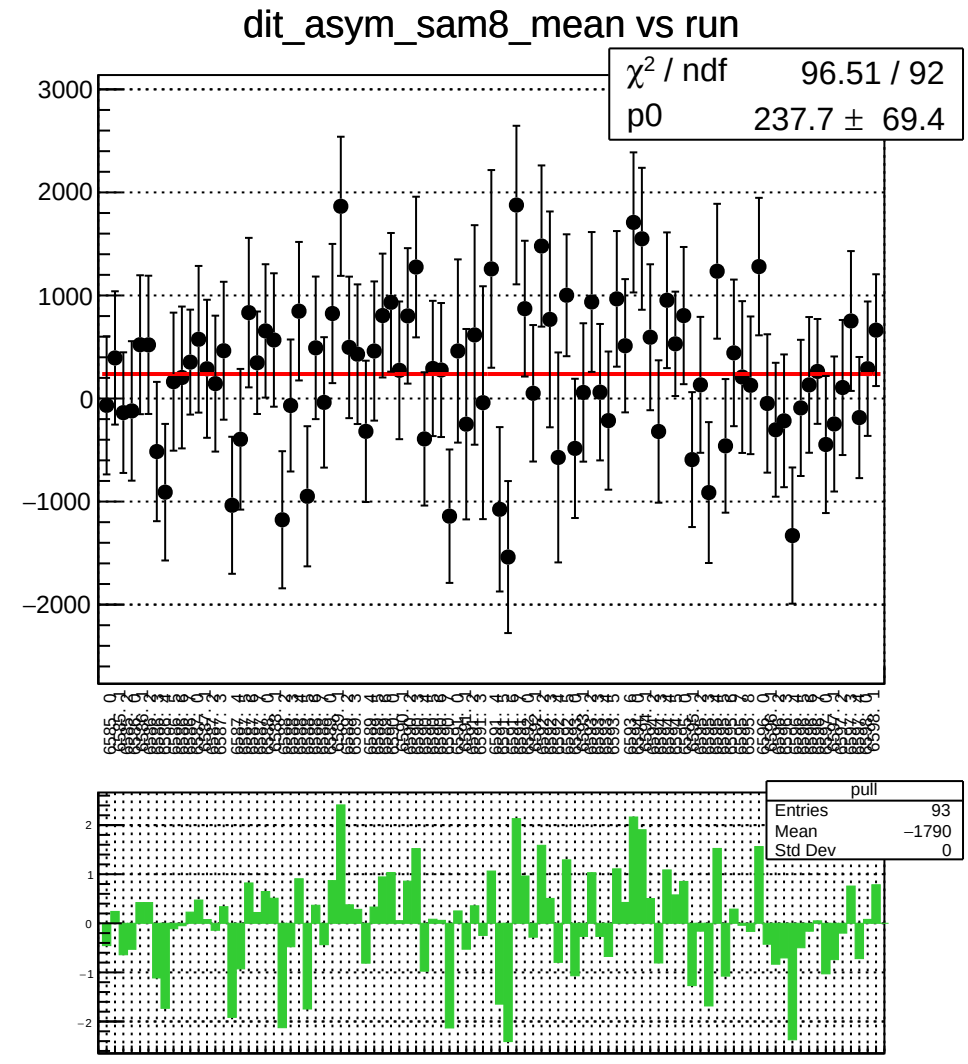

pull1D
Entries 93
Mean −0.005582
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

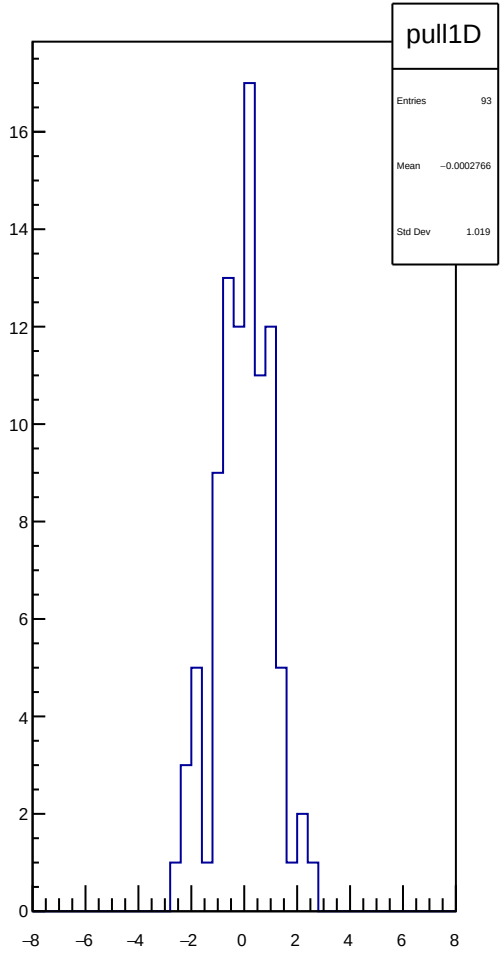

eigen_cor_asym_sam8_rms vs run
χ² / ndf 3313 / 92
p0 57.32 ± 0.04312
68
66
64
62
60
58
56
54
52

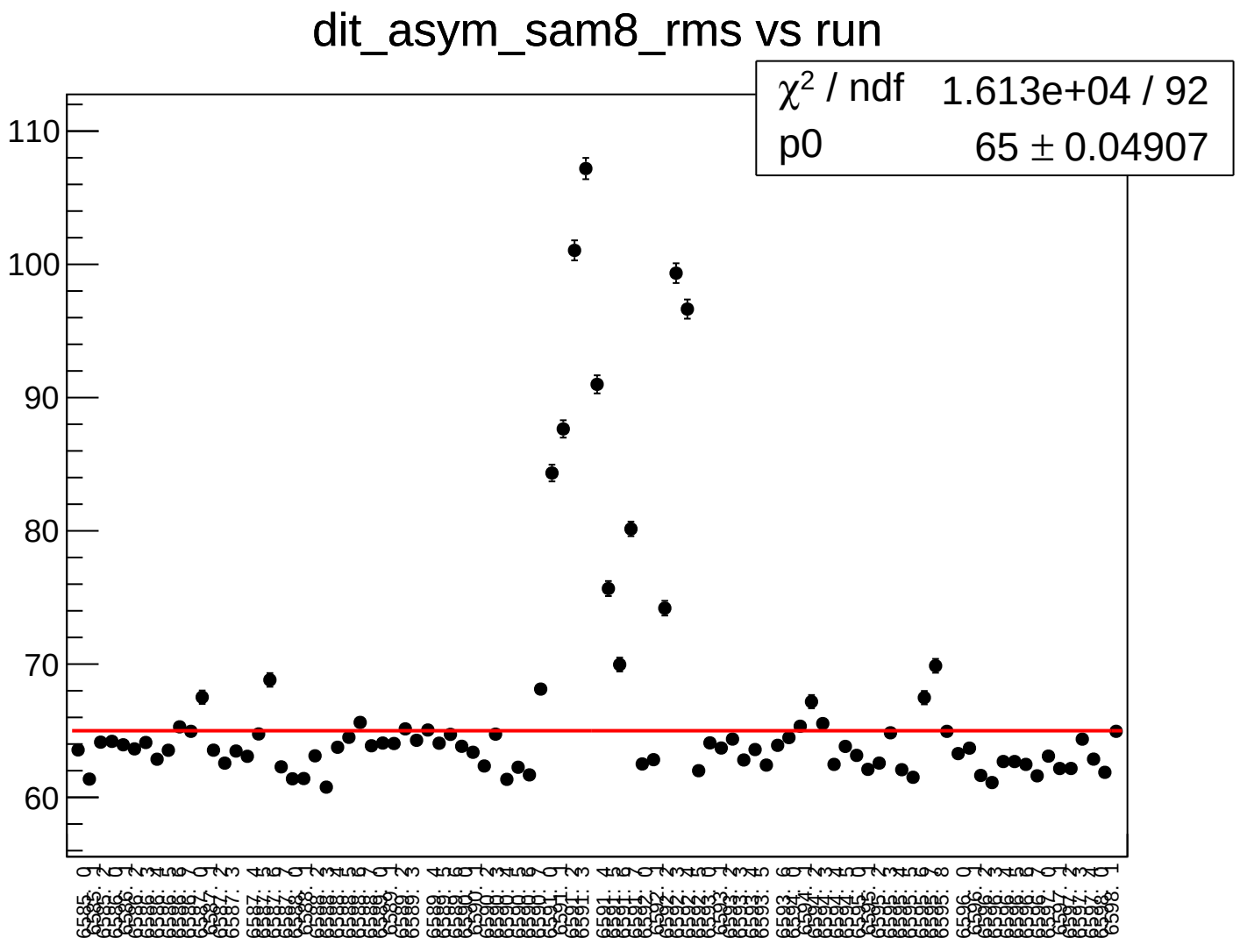

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 105 / 92
p0 2.405 ± 227.4
pull
Entries 93
Mean −292.8
Std Dev 0

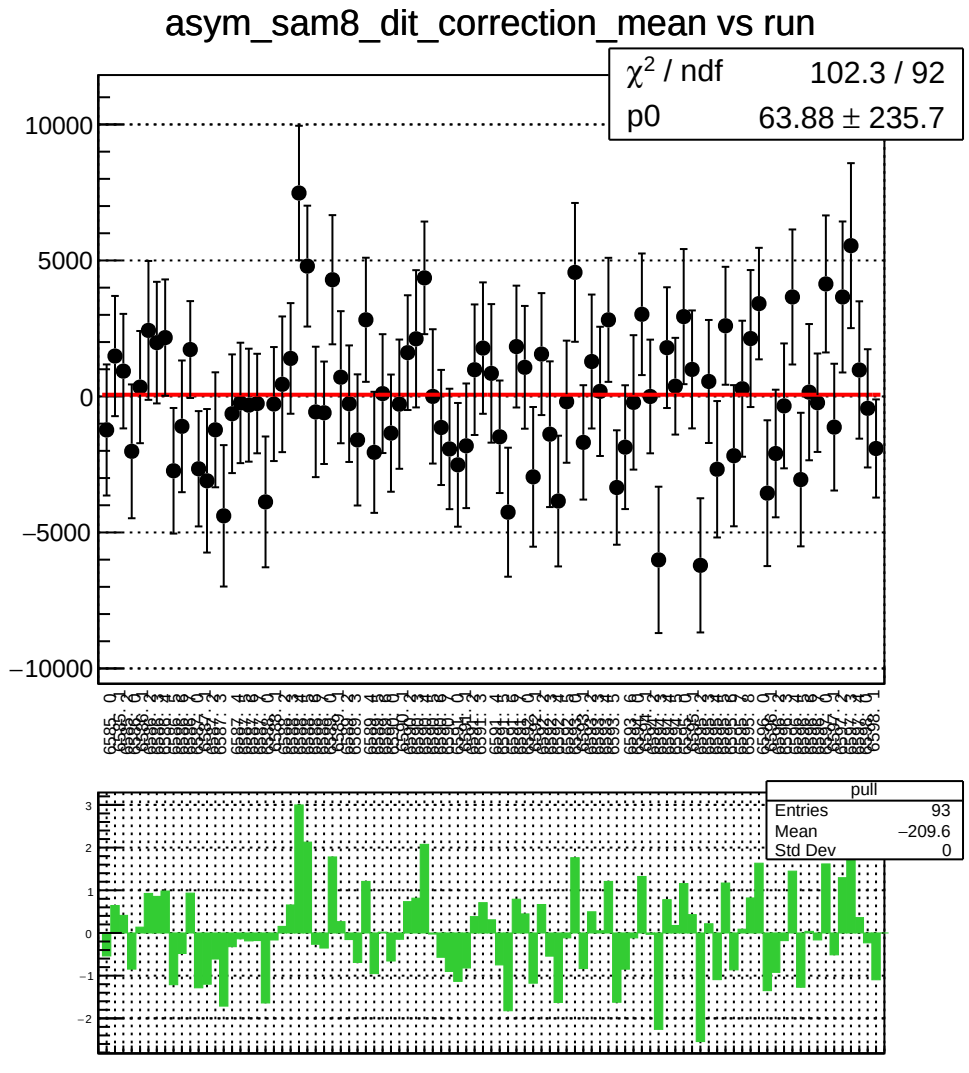

pull1D
Entries 93
Mean −0.001781
Std Dev 1.062

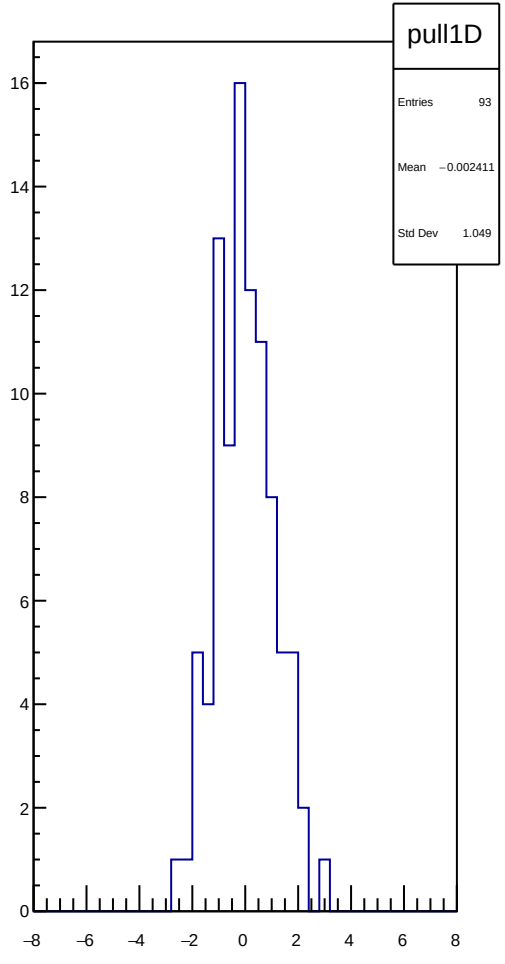

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 1.437e+04 / 92
p0 213.1 ± 0.1608
300
280
260
240
220
200
180

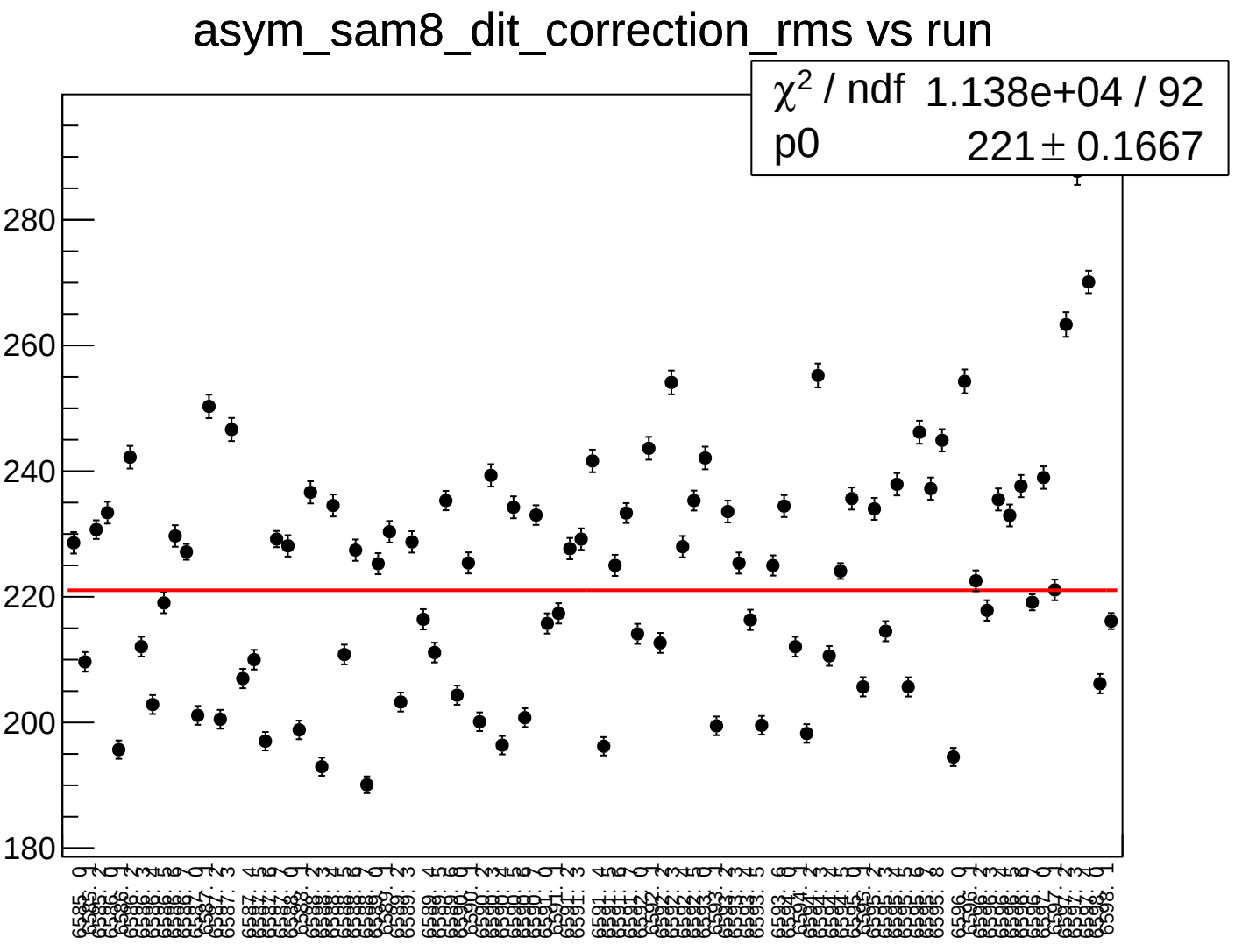

dit_asym_sam8_mean vs run
χ² / ndf 96.51 / 92
p0 237.7 ± 69.4
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −1790
Std Dev 0
2
1
0
−1
−2

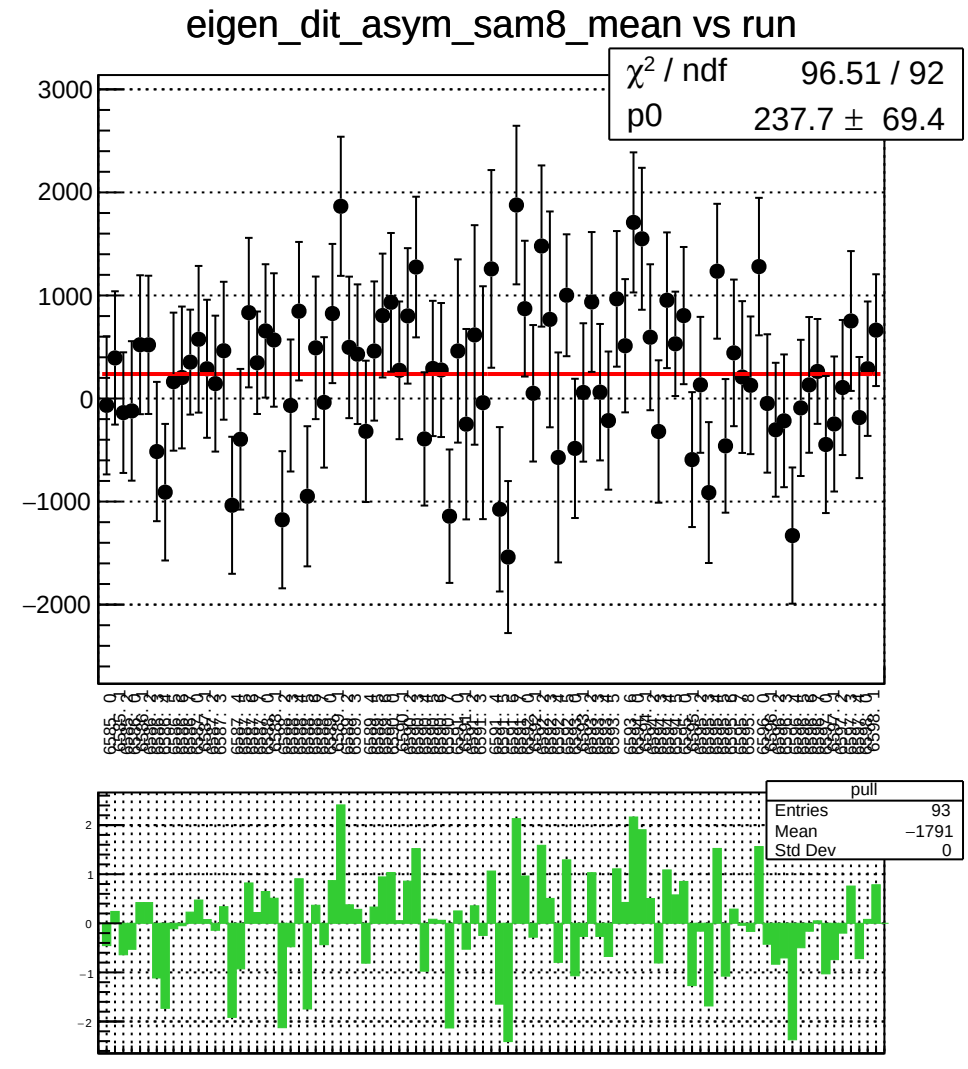

pull1D
Entries 93
Mean −0.0002766
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

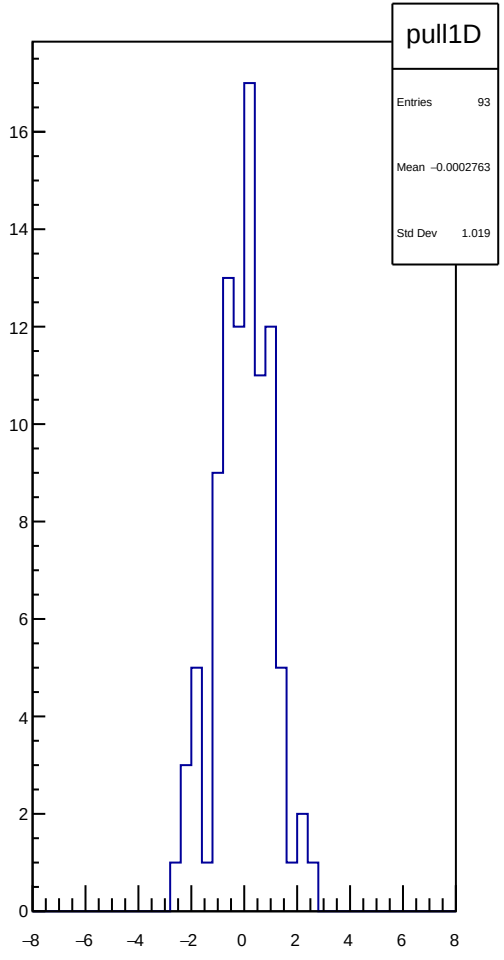

dit_asym_sam8_rms vs run
χ² / ndf 1.613e+04 / 92
p0 65 ± 0.04907
110
100
90
80
70
60

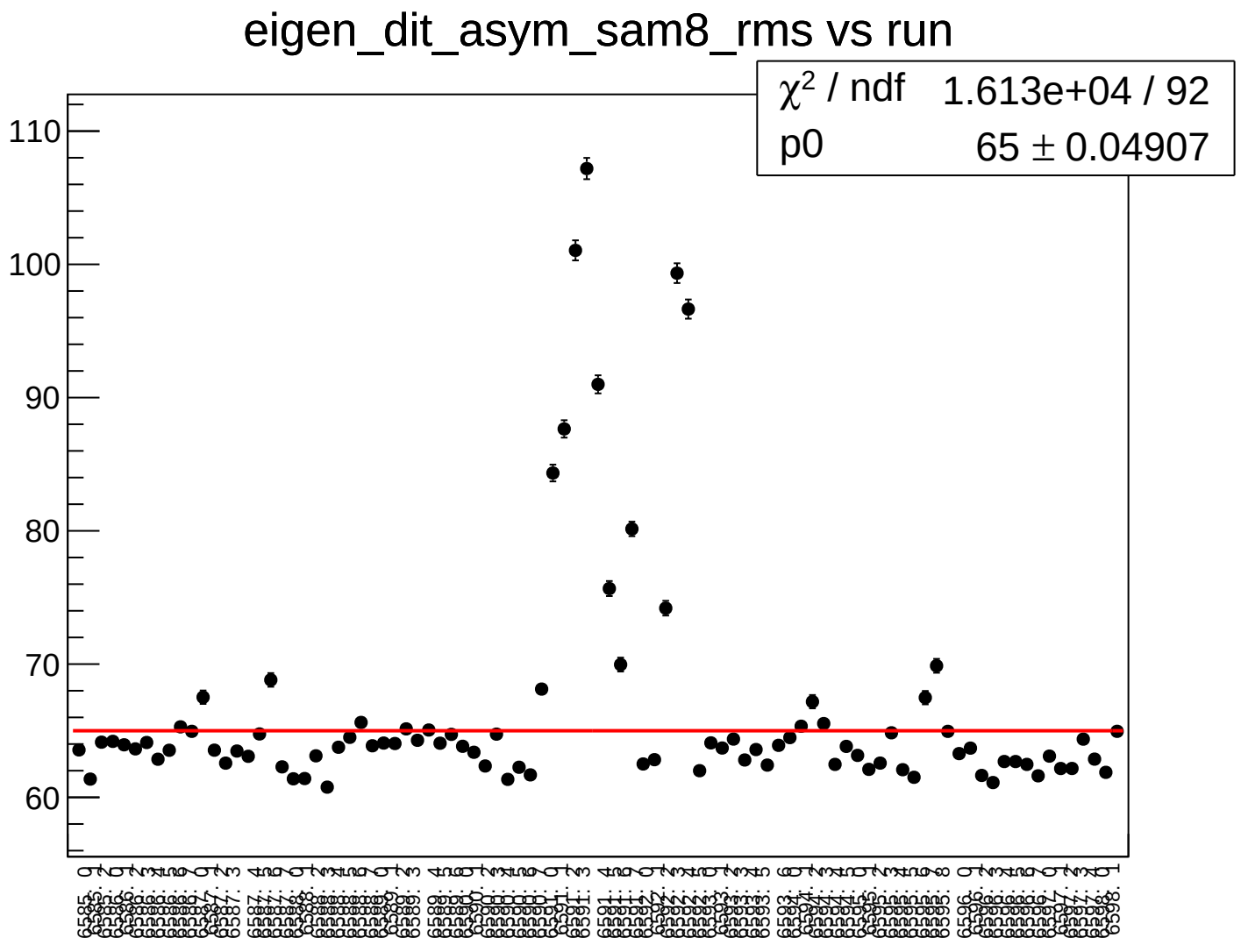

asym_sam8_dit_correction_mean vs run
χ² / ndf 102.3 / 92
p0 63.88 ± 235.7
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −209.6
Std Dev 0
3
2
1
0
−1
−2

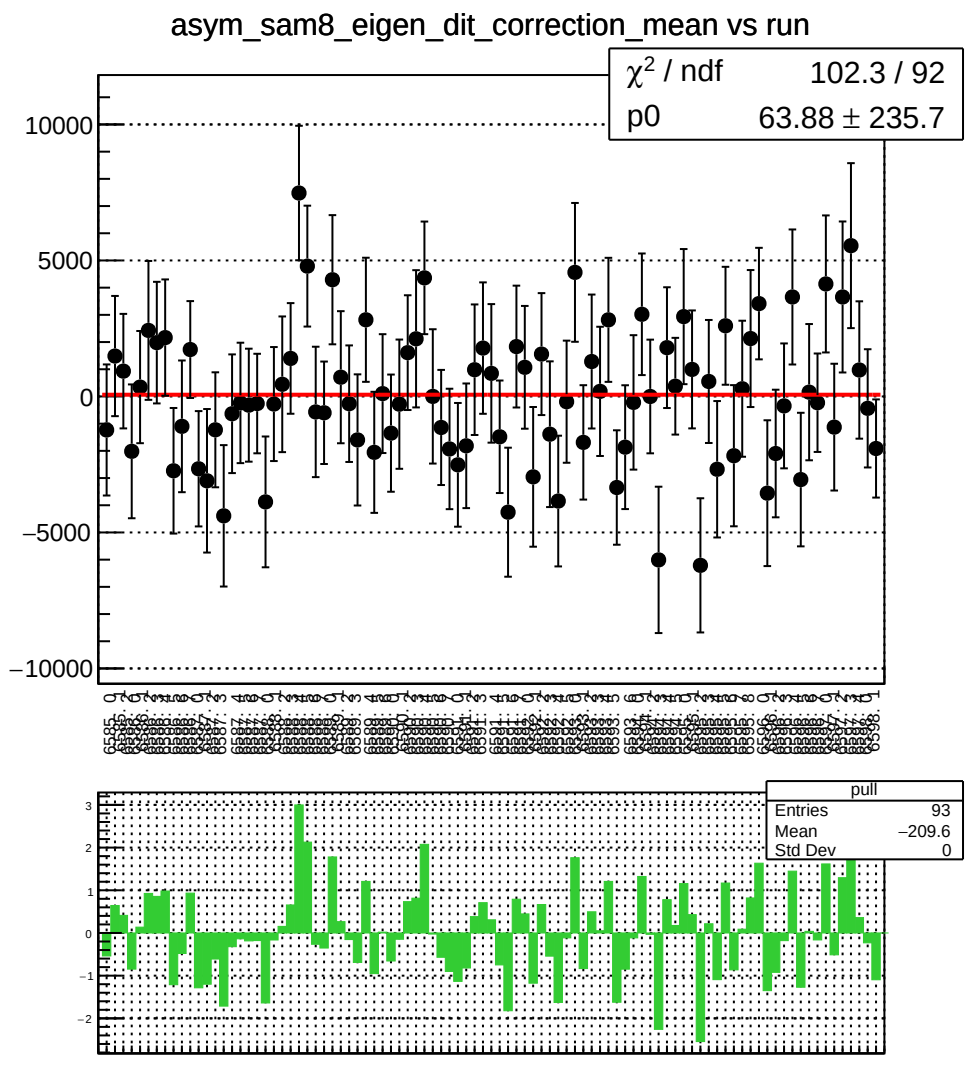

pull1D
Entries 93
Mean −0.002411
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

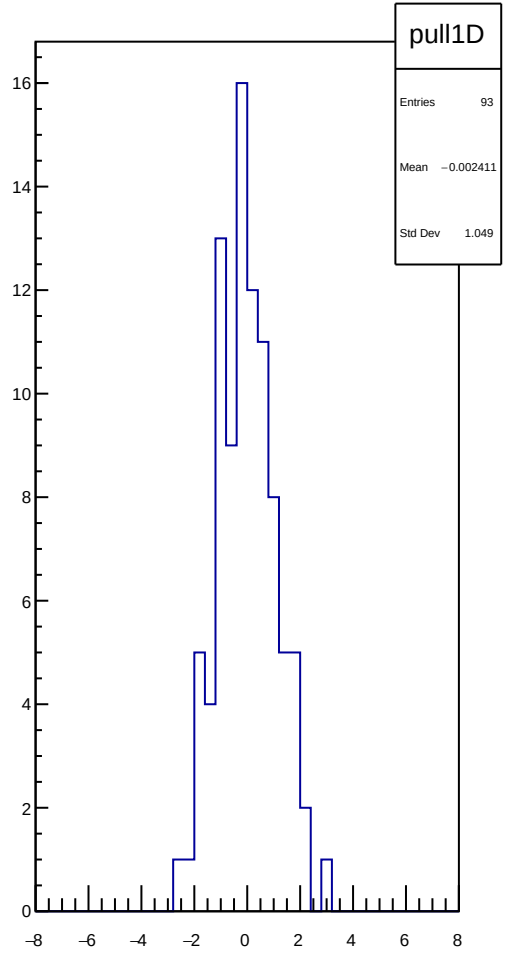

asym_sam8_dit_correction_rms vs run
χ^2 / ndf 1.138e+04 / 92
p0 221 ± 0.1667
280
260
240
220
200
180

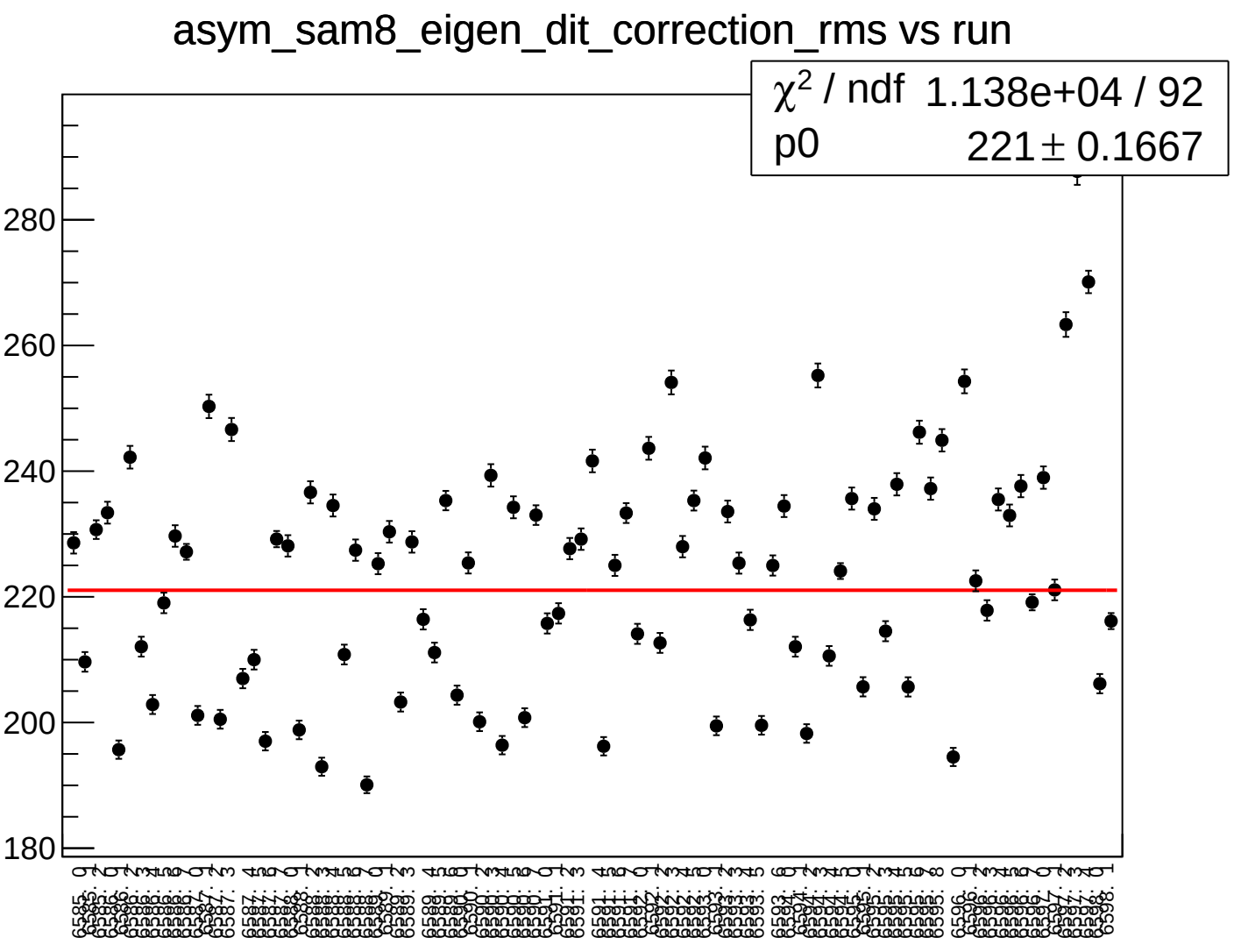

eigen_dit_asym_sam8_mean vs run
χ² / ndf 96.51 / 92
p0 237.7 ± 69.4
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −1791
Std Dev 0
2
1
0
−1
−2

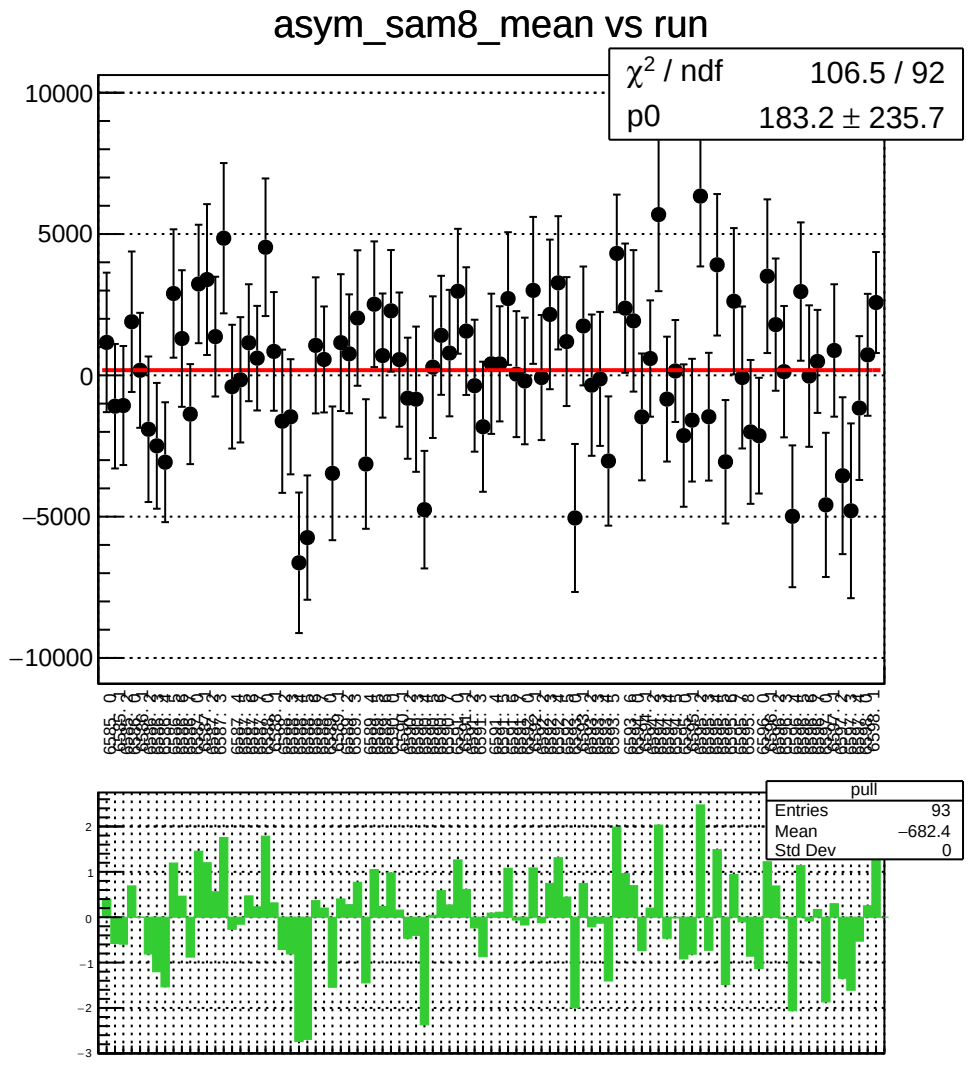

pull1D
Entries 93
Mean −0.0002763
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

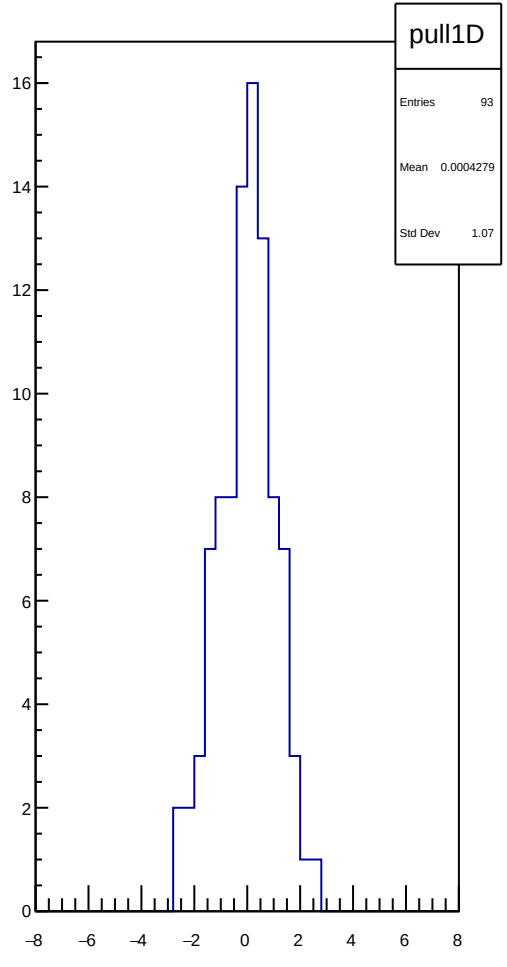

eigen_dit_asym_sam8_rms vs run
χ² / ndf 1.613e+04 / 92
p0 65 ± 0.04907
110
100
90
80
70
60

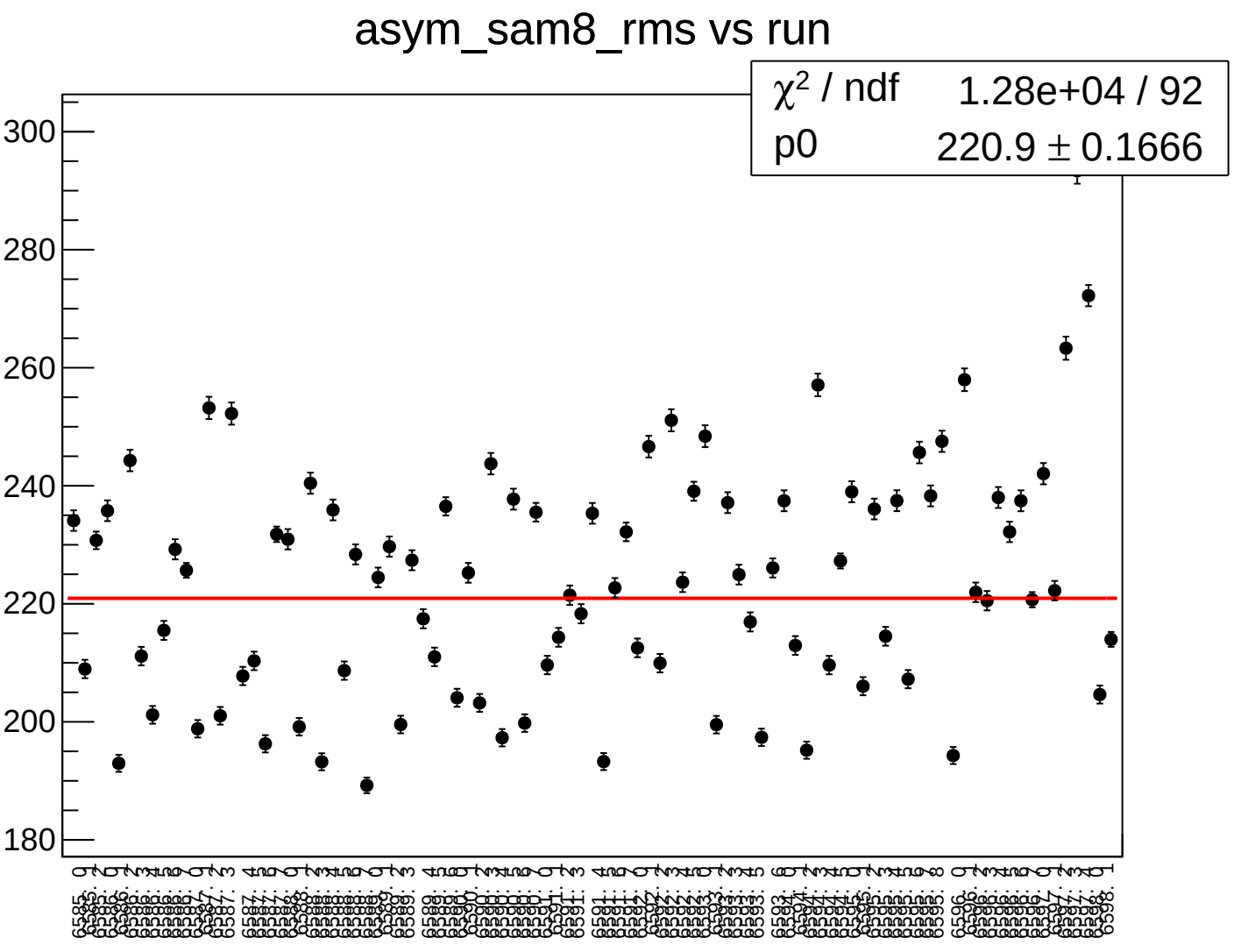

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 102.3 / 92
p0 63.88 ± 235.7
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −209.6
Std Dev 0
3
2
1
0
−1
−2

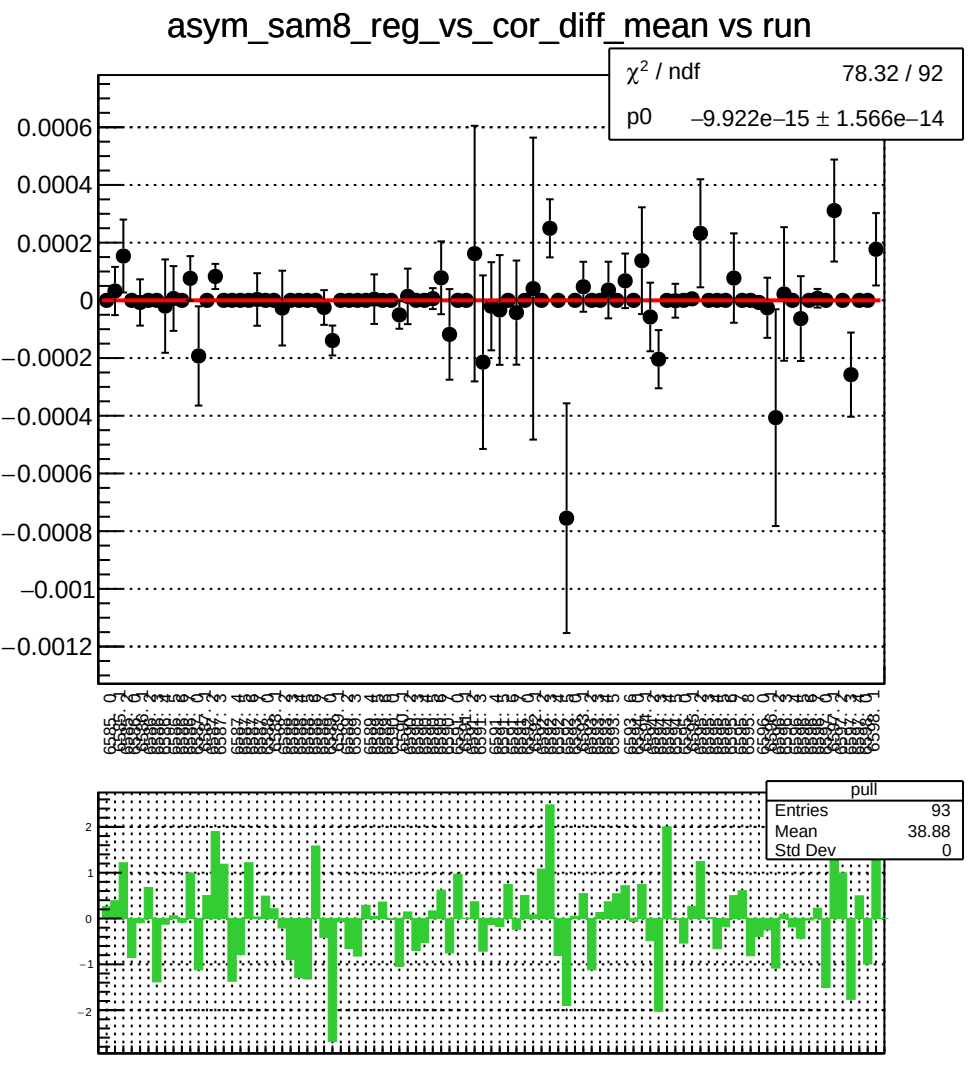

pull1D
Entries 93
Mean −0.002411
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

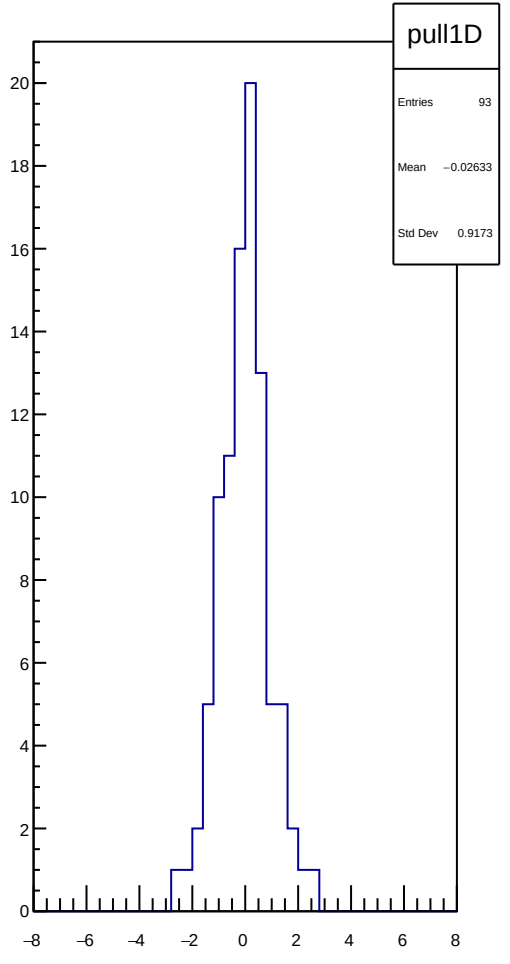

asym_sam8_eigen_dit_correction_rms vs run
χ^2 / ndf 1.138e+04 / 92
p0 221 ± 0.1667
280
260
240
220
200
180

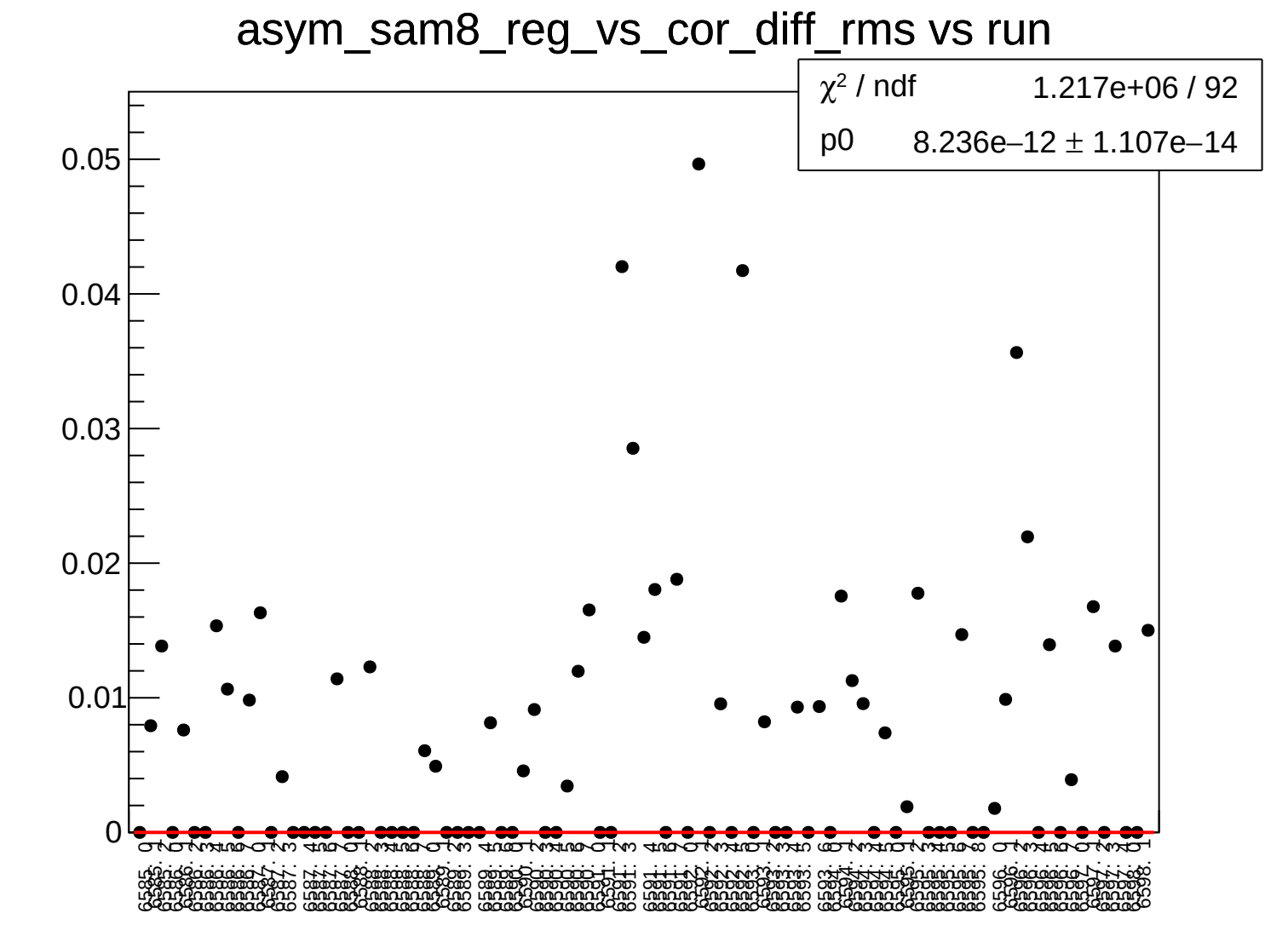

asym_sam8_mean vs run
χ² / ndf 106.5 / 92
p0 183.2 ± 235.7
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −682.4
Std Dev 0
2
1
0
−1
−2
−3

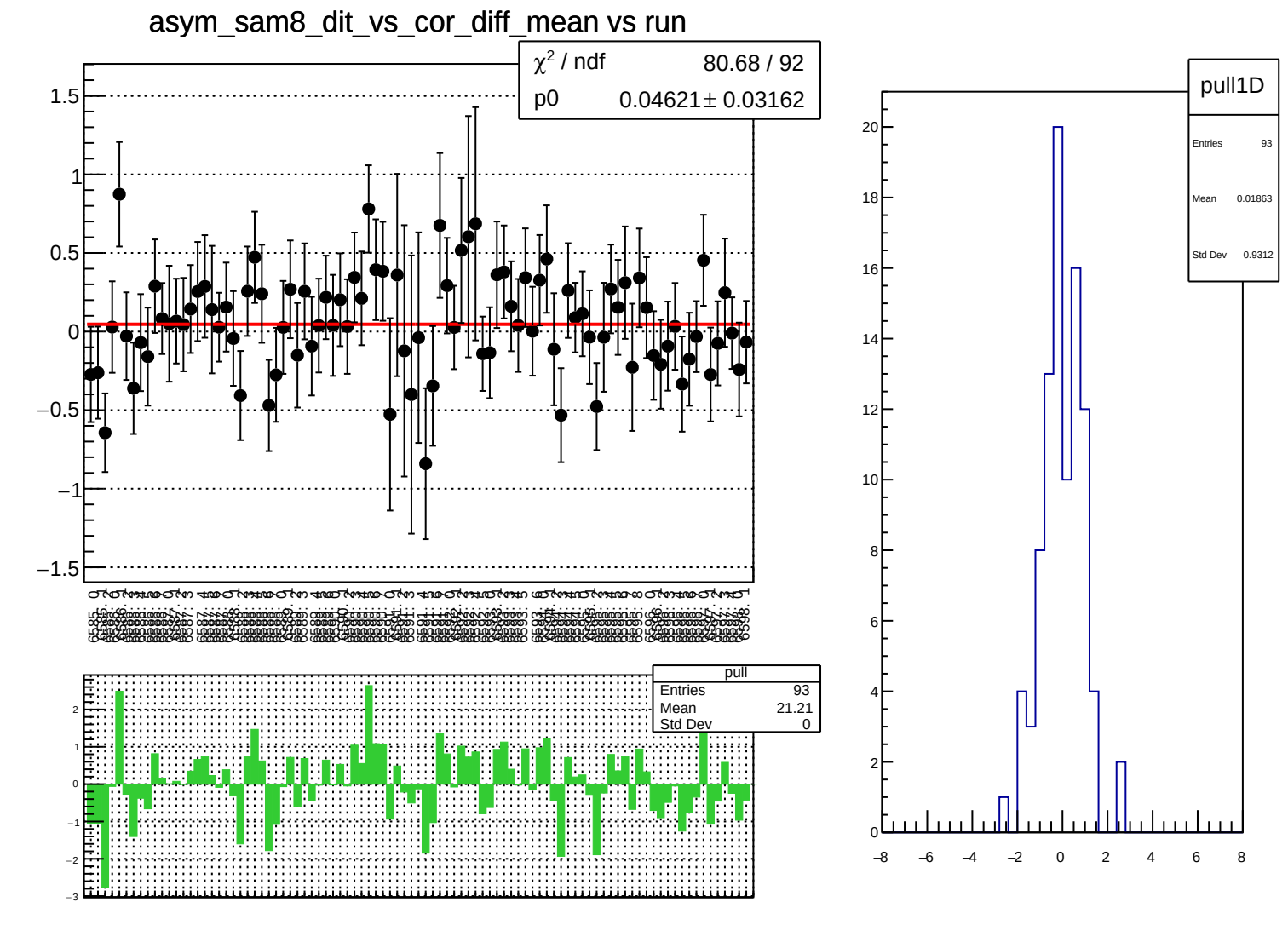

pull1D
Entries 93
Mean 0.0004279
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

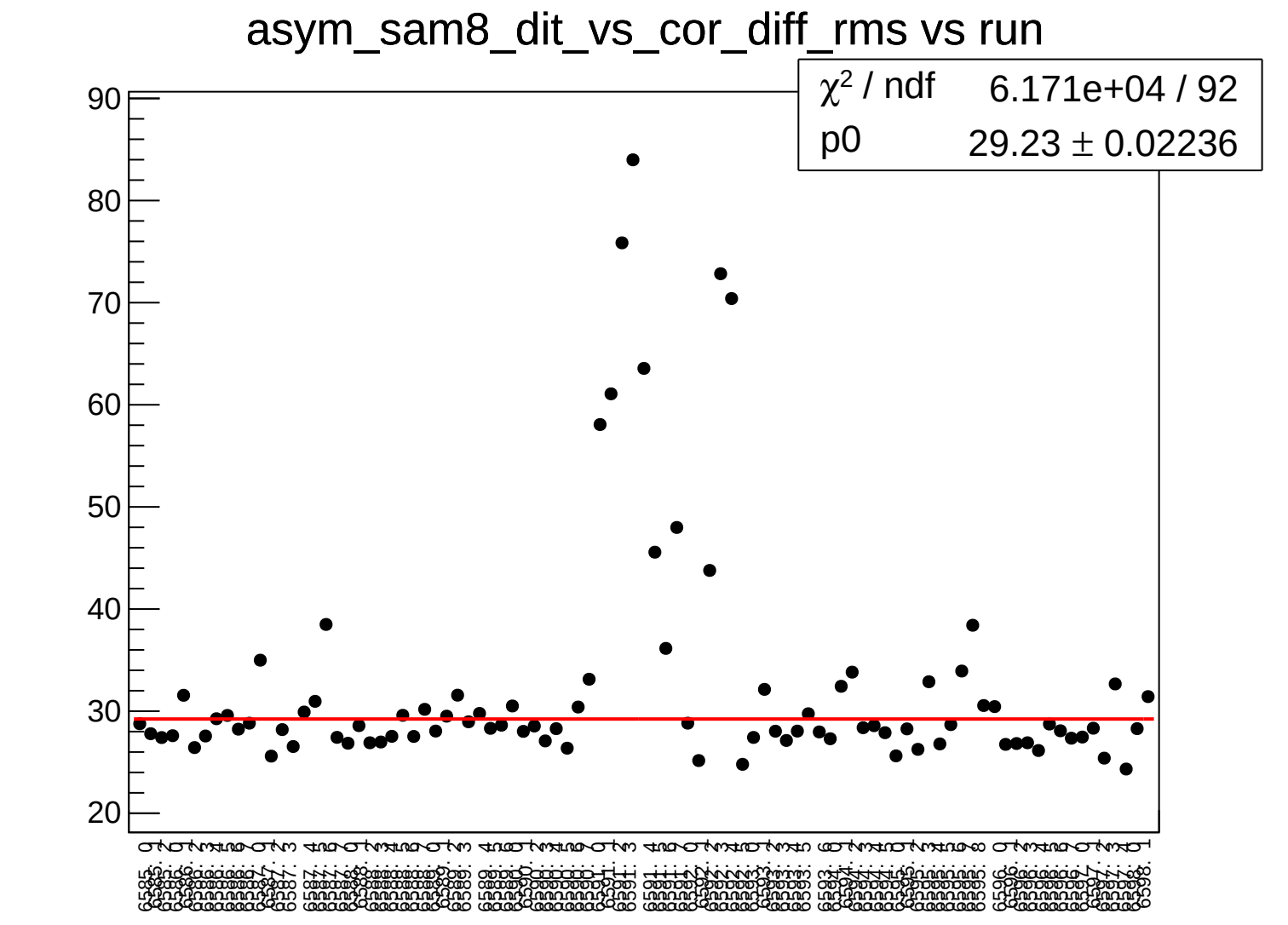

asym_sam8_rms vs run
χ² / ndf 1.28e+04 / 92
p0 220.9 ± 0.1666
300
280
260
240
220
200
180

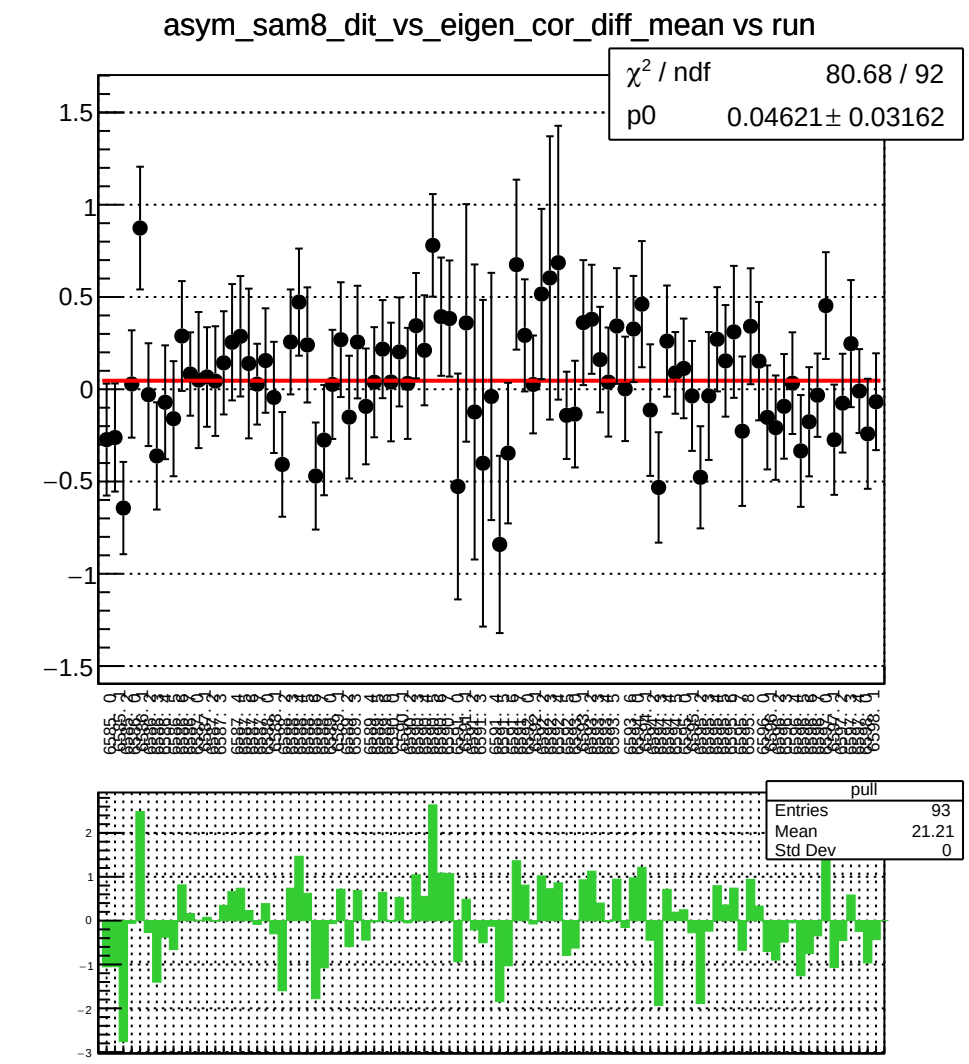

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 78.32 / 92
p0 −9.922e−15 ± 1.566e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 93
Mean 38.88
Std Dev 0
2
1
0
−1
−2

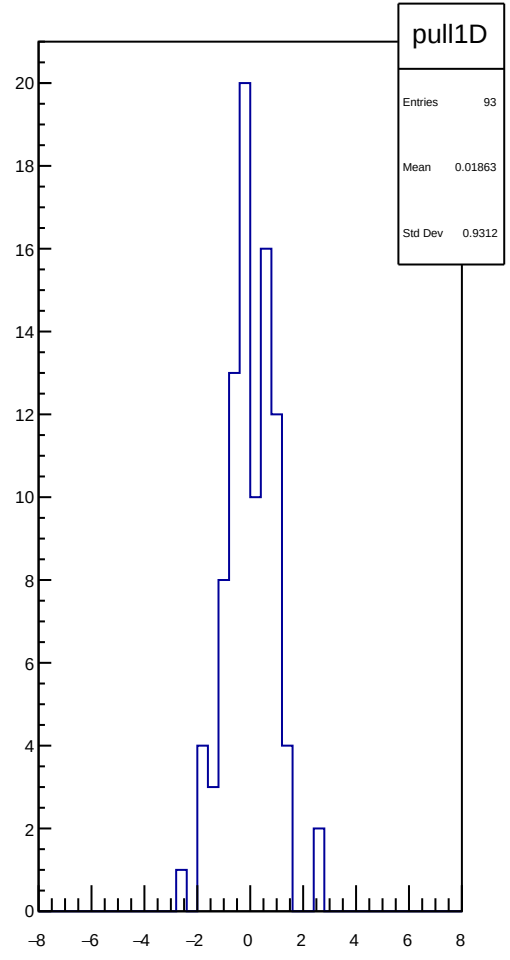

pull1D
Entries 93
Mean −0.02633
Std Dev 0.9173
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

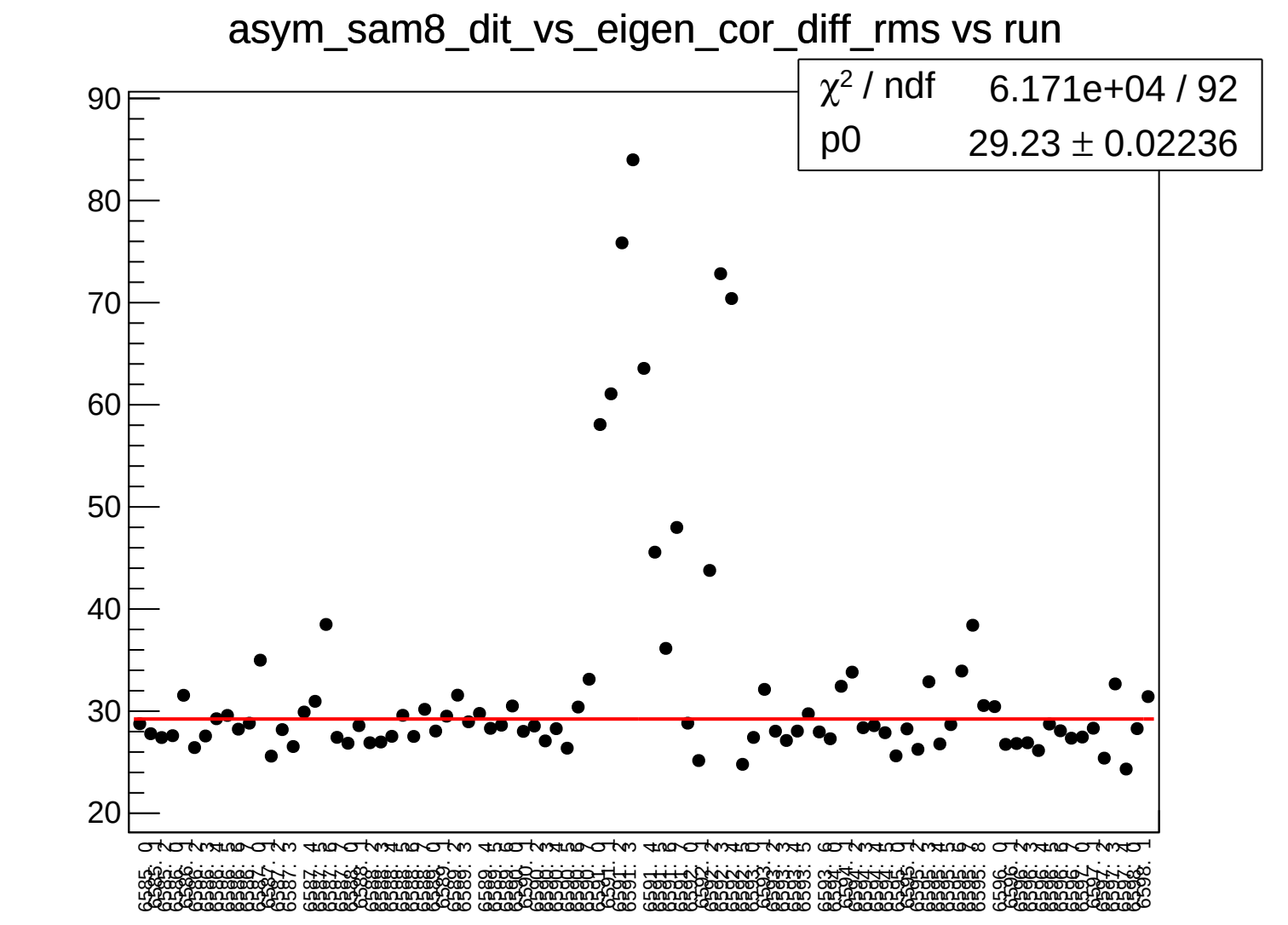

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.217e+06 / 92
p0 8.236e−12 ± 1.107e−14
0.05
0.04
0.03
0.02
0.01
0

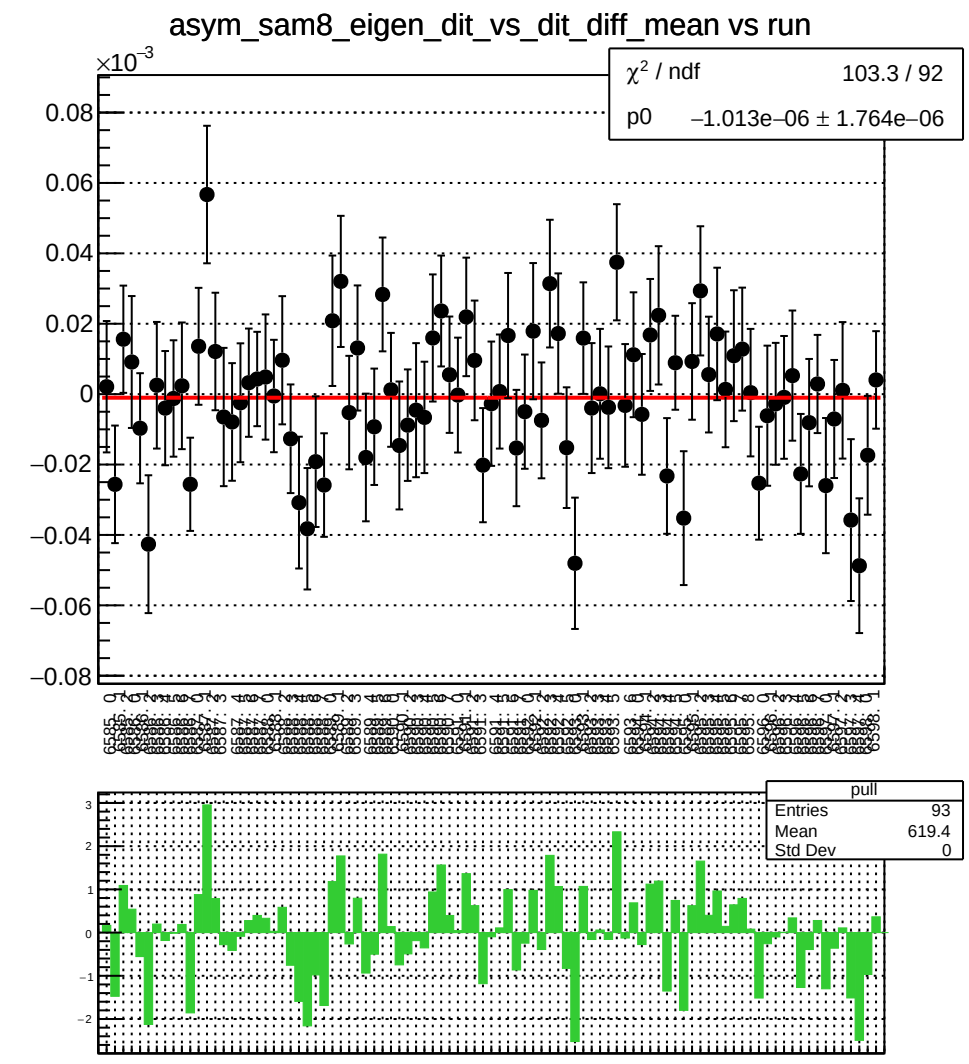

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 80.68 / 92
p0 0.04621 ± 0.03162
pull
Entries 93
Mean 21.21
Std Dev 0
pull1D
Entries 93
Mean 0.01863
Std Dev 0.9312

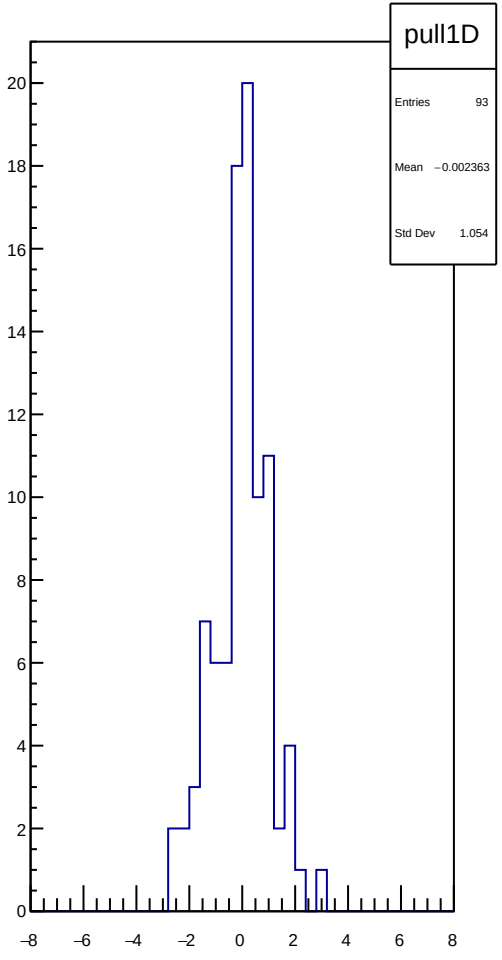

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.171e+04 / 92
p0 29.23 ± 0.02236
90
80
70
60
50
40
30
20

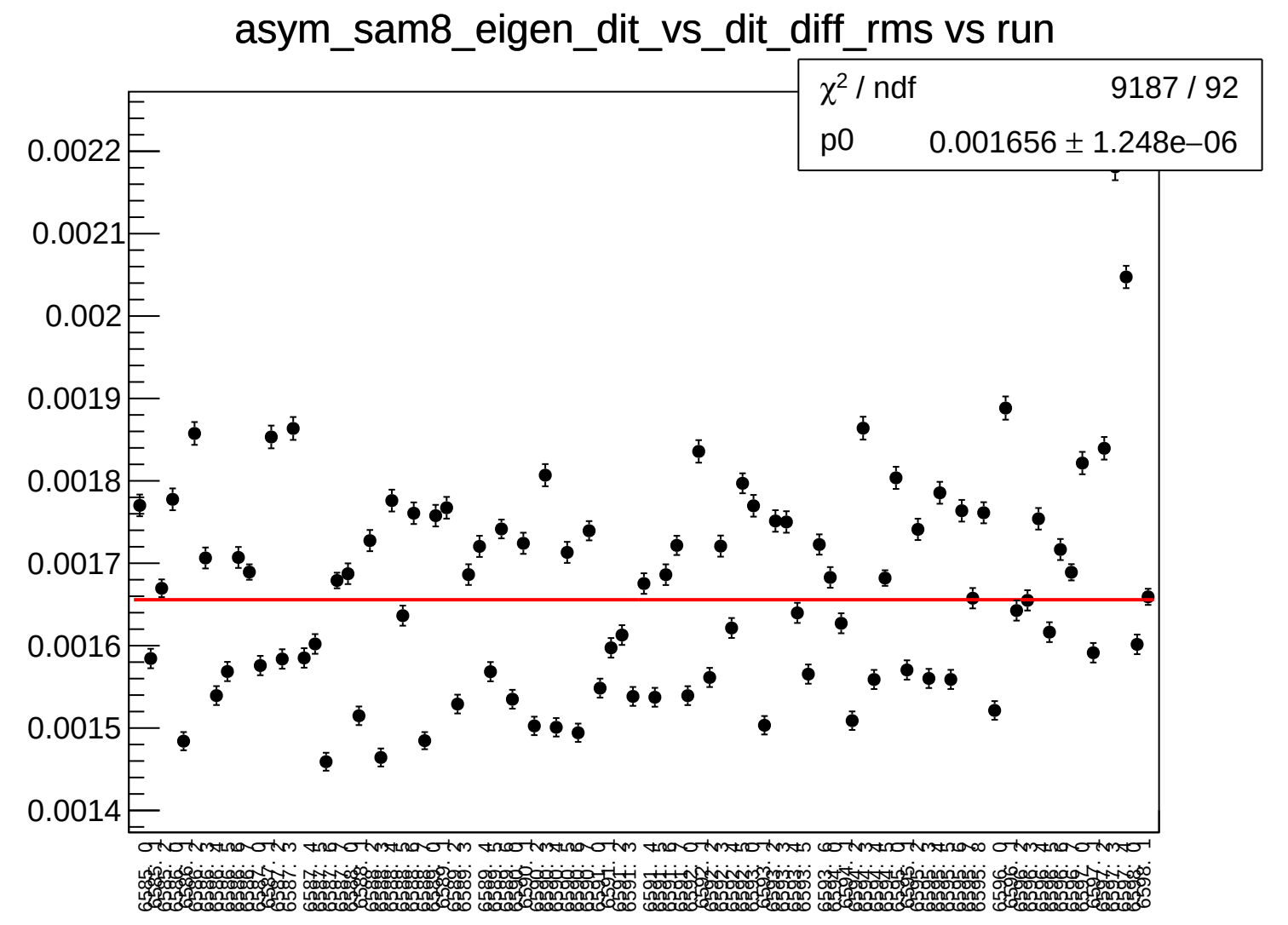

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.68 / 92
p0 0.04621 ± 0.03162
pull
Entries 93
Mean 21.21
Std Dev 0

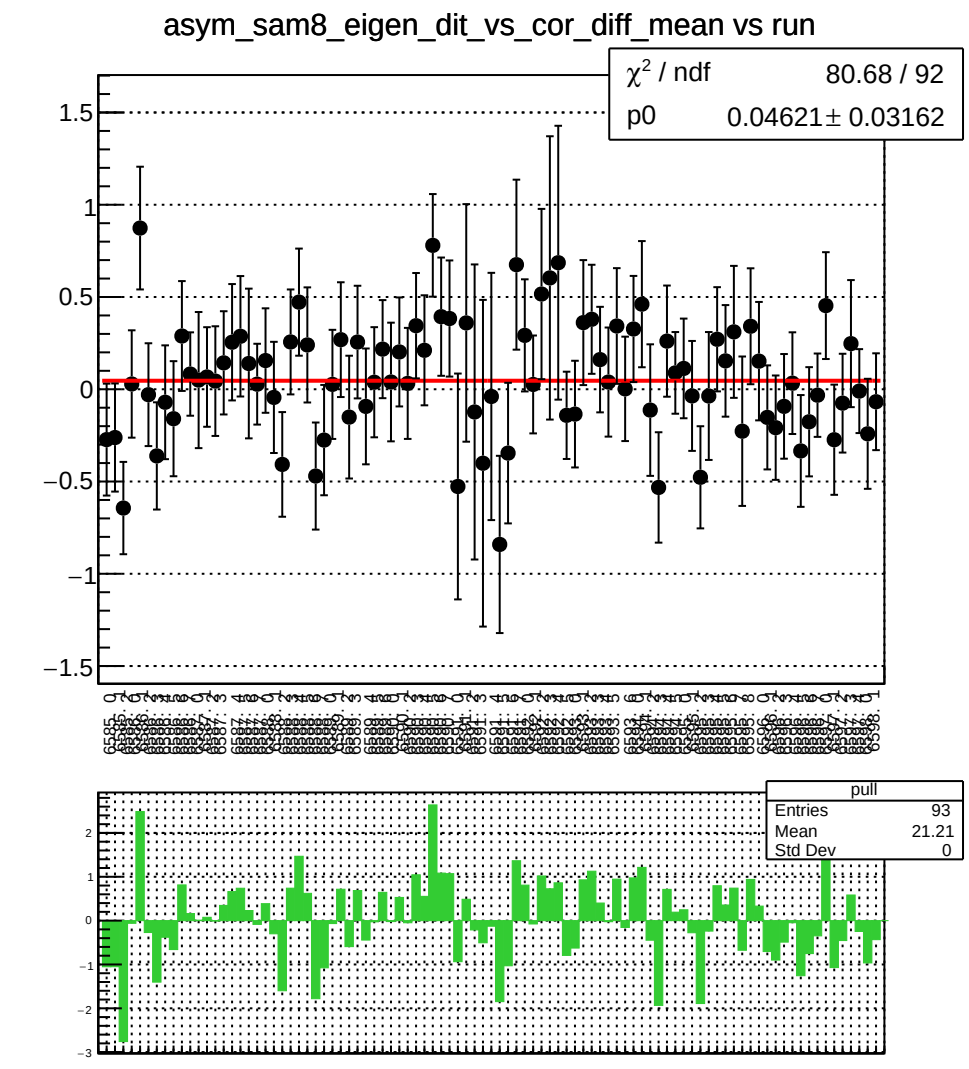

pull1D
Entries 93
Mean 0.01863
Std Dev 0.9312

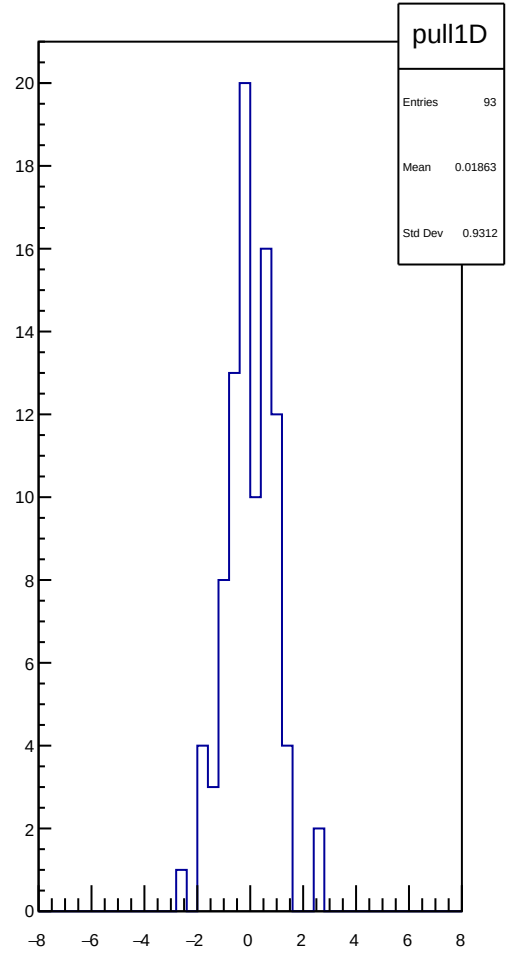

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.171e+04 / 92
p0 29.23 ± 0.02236
90
80
70
60
50
40
30
20

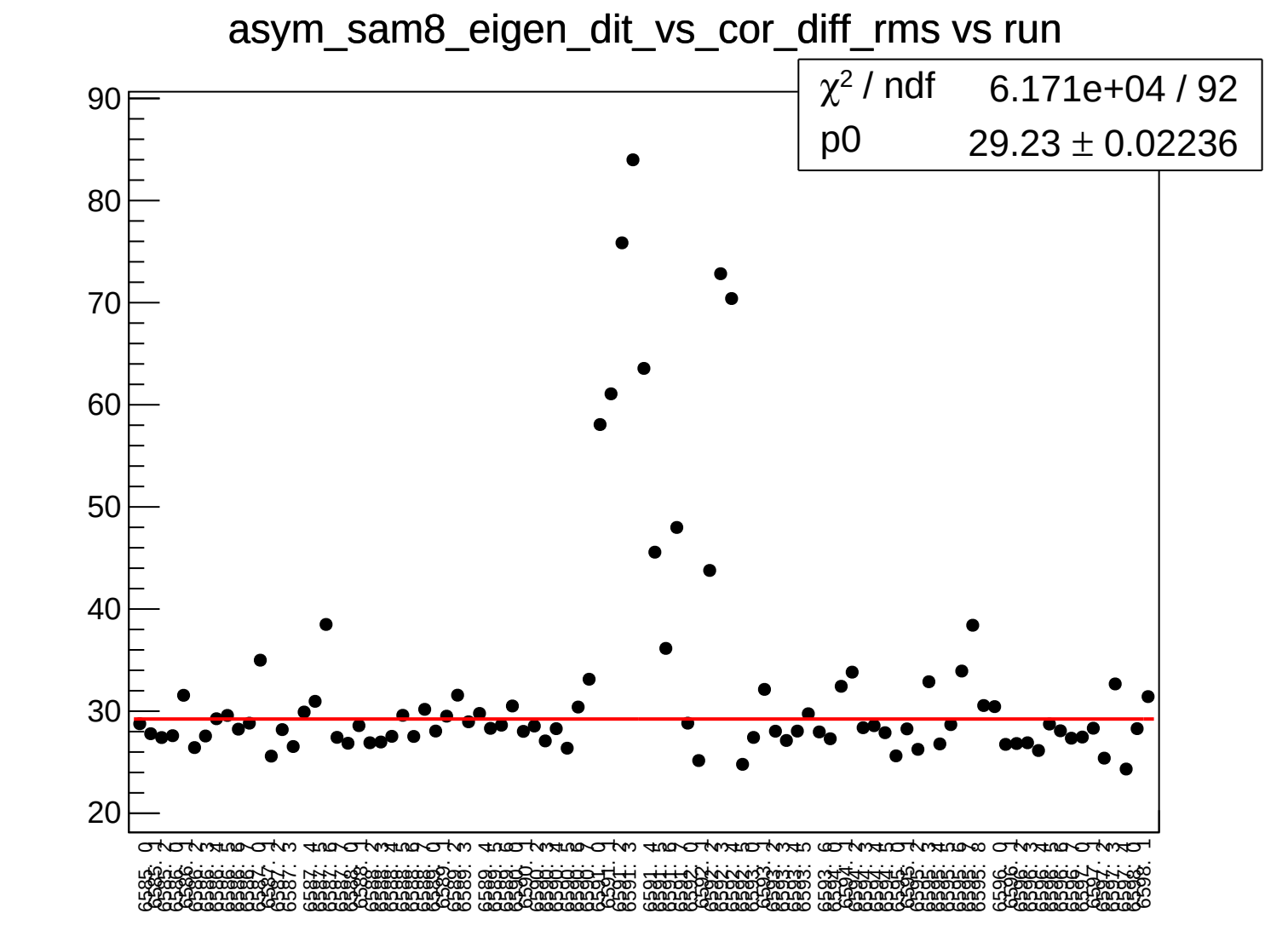

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 92
p0 −1.013e−06 ± 1.764e−06
pull
Entries 93
Mean 619.4
Std Dev 0

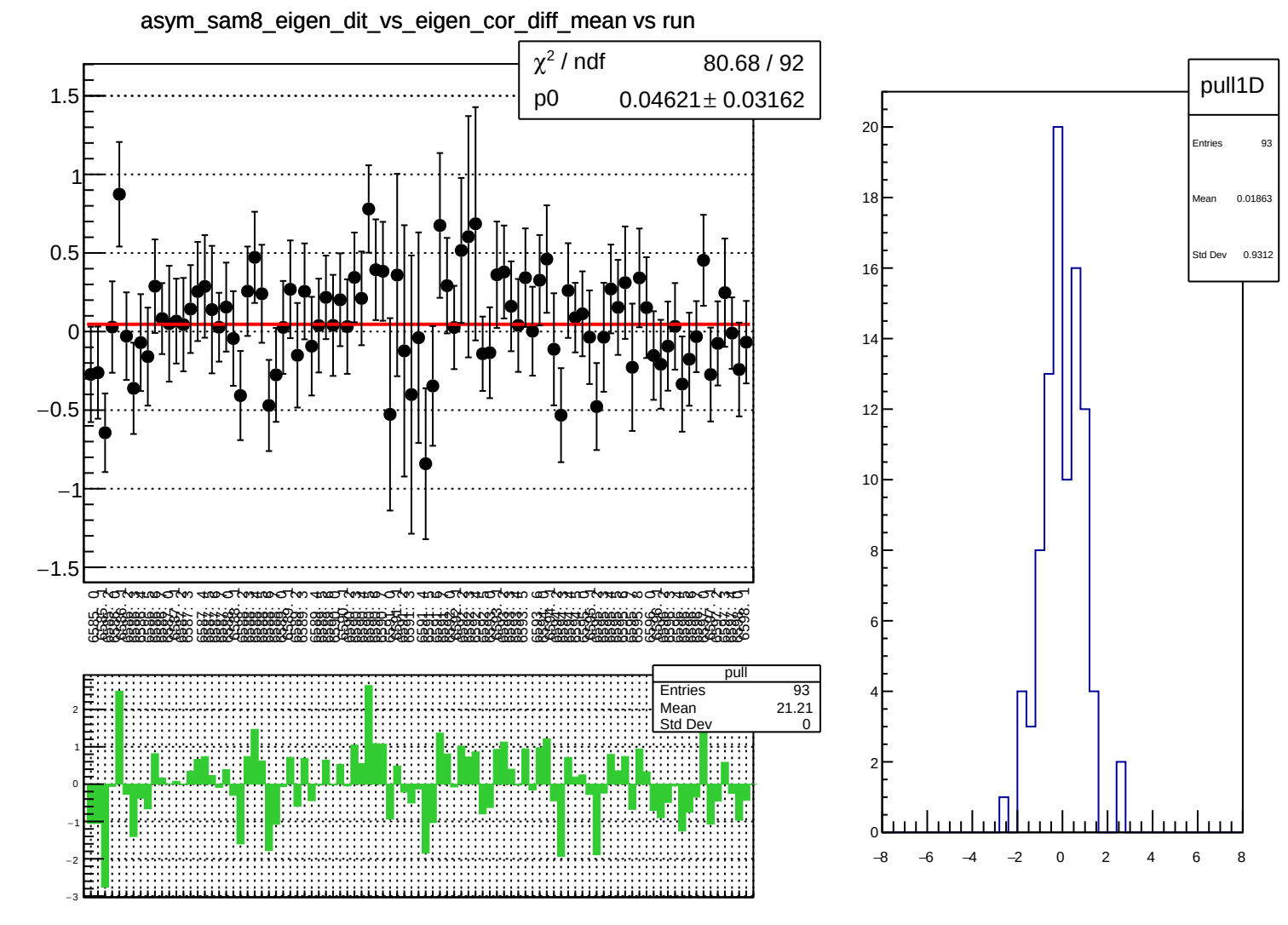

pull1D
Entries 93
Mean −0.002363
Std Dev 1.054

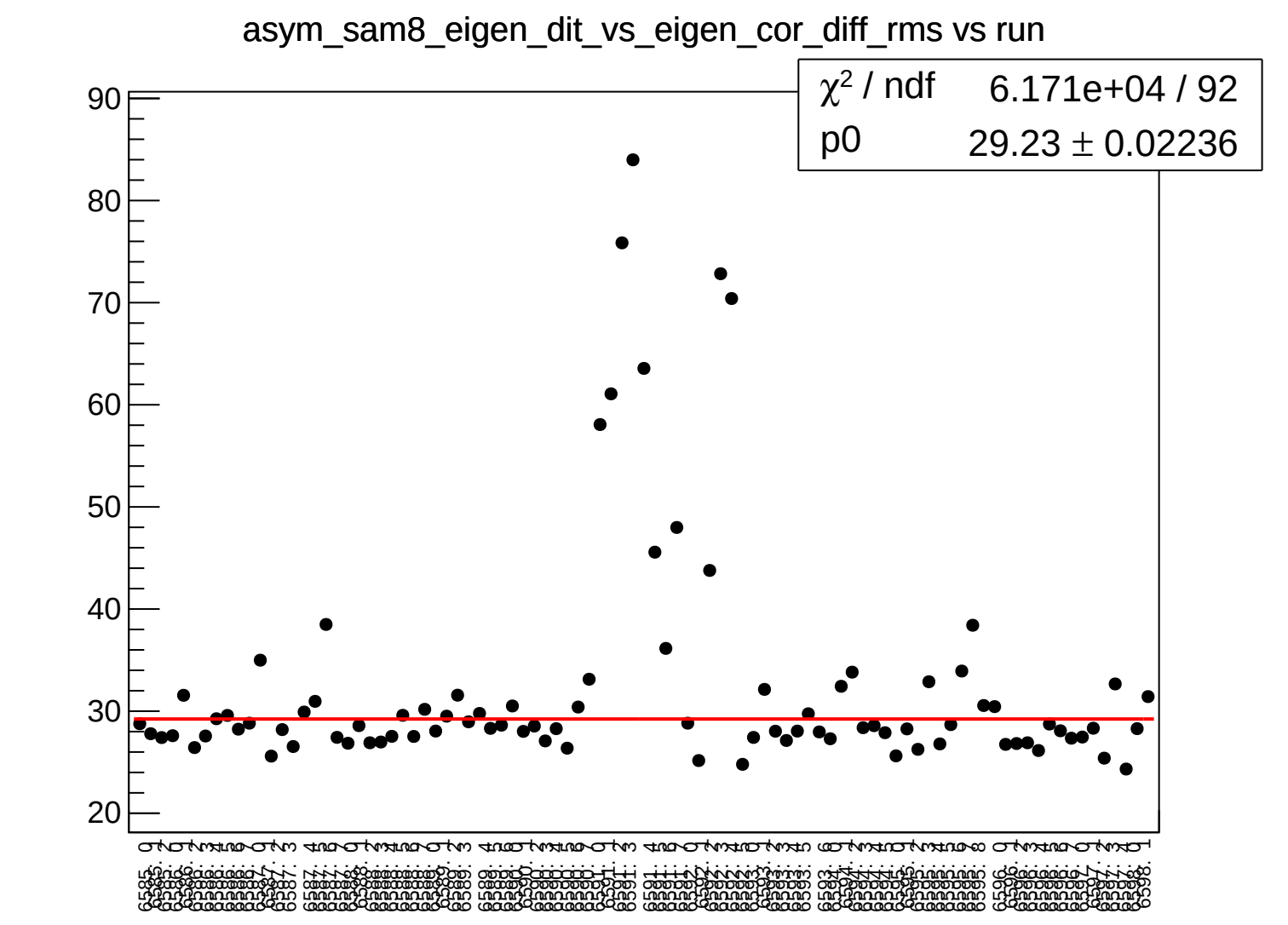

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9187 / 92
p0 0.001656 ± 1.248e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

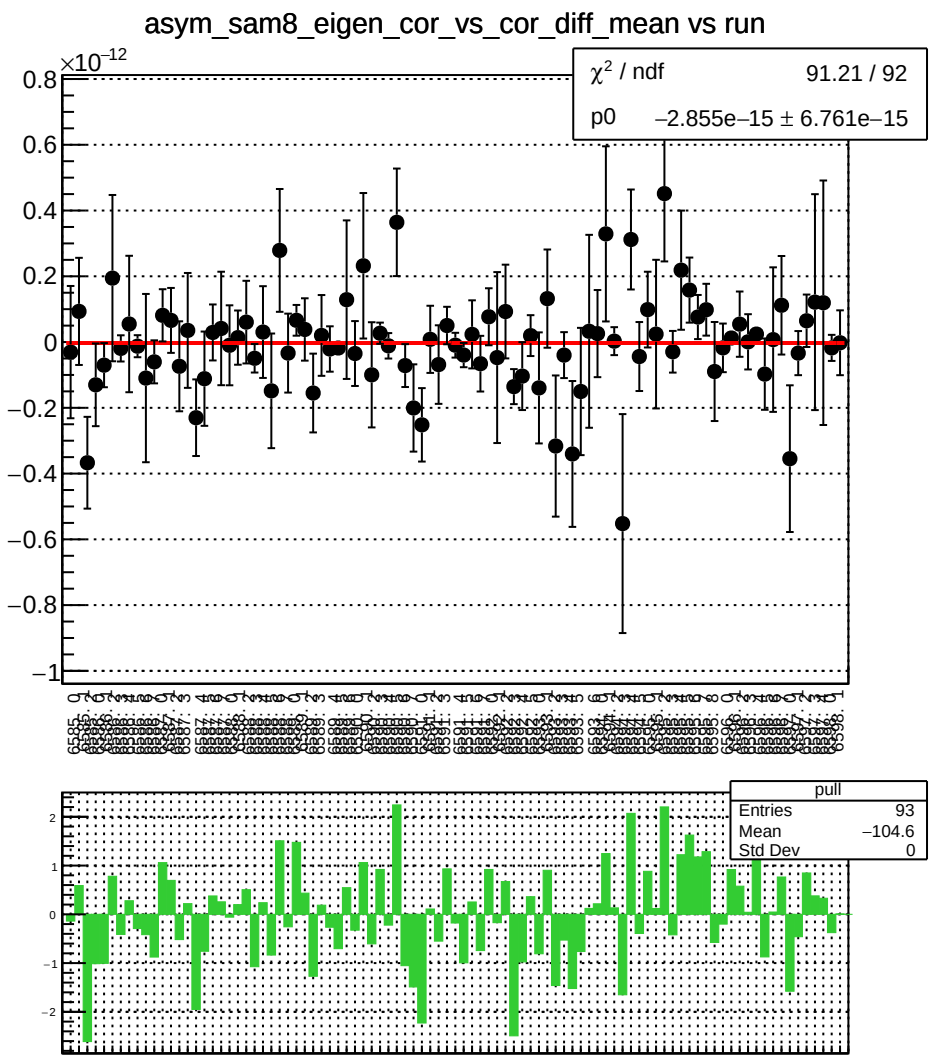

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.68 / 92
p0 0.04621 ± 0.03162
pull
Entries 93
Mean 21.21
Std Dev 0

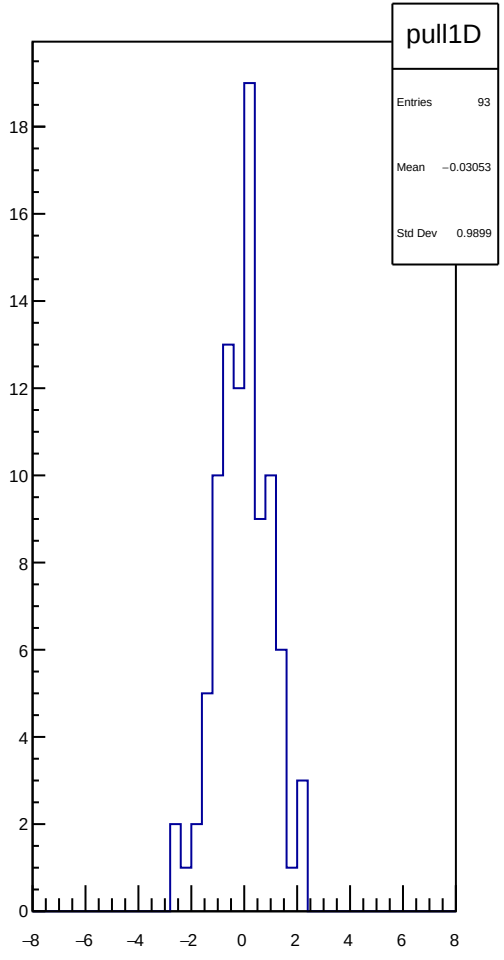

pull1D
Entries 93
Mean 0.01863
Std Dev 0.9312

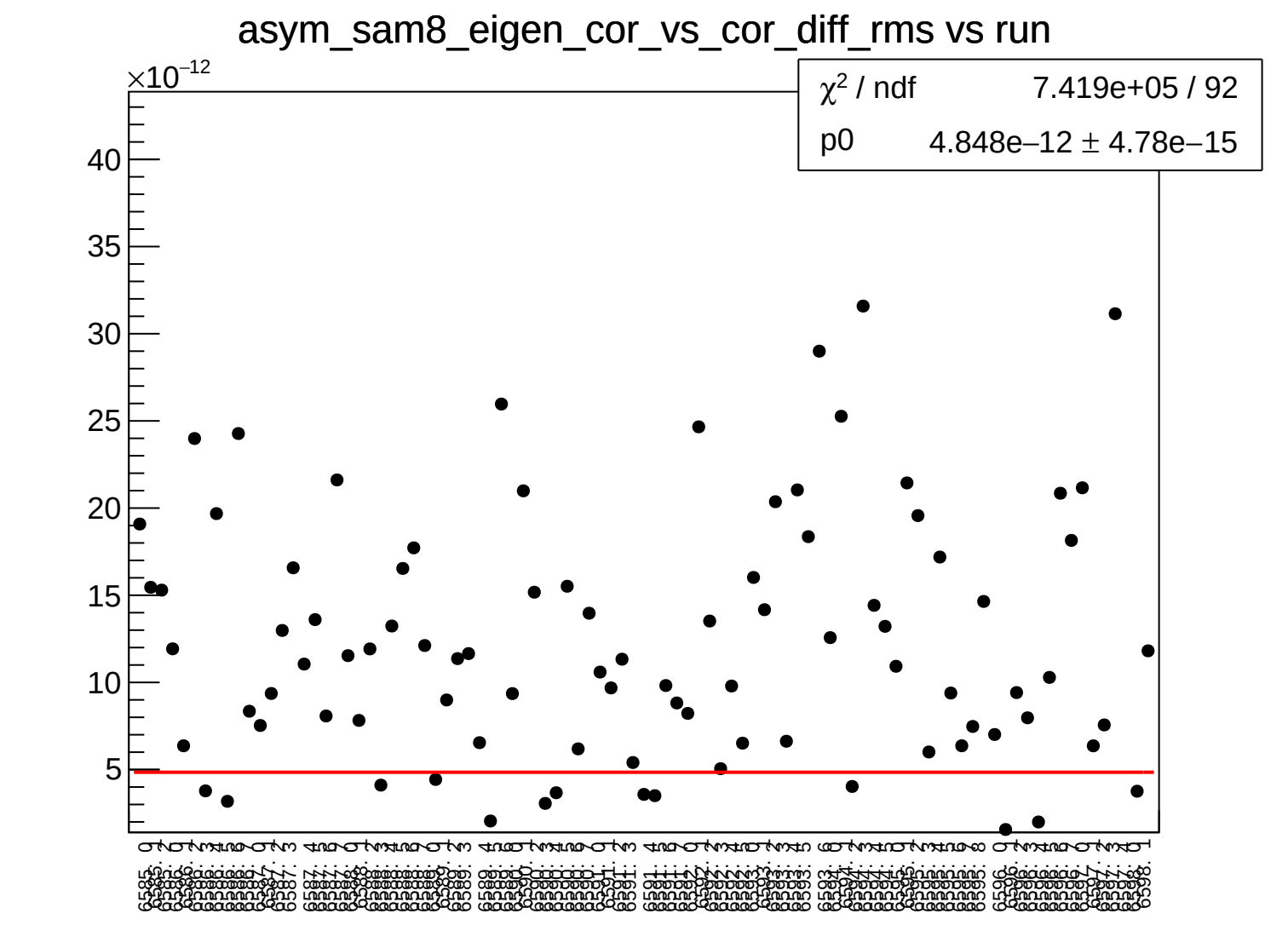

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.171e+04 / 92
p0 29.23 ± 0.02236
90
80
70
60
50
40
30
20

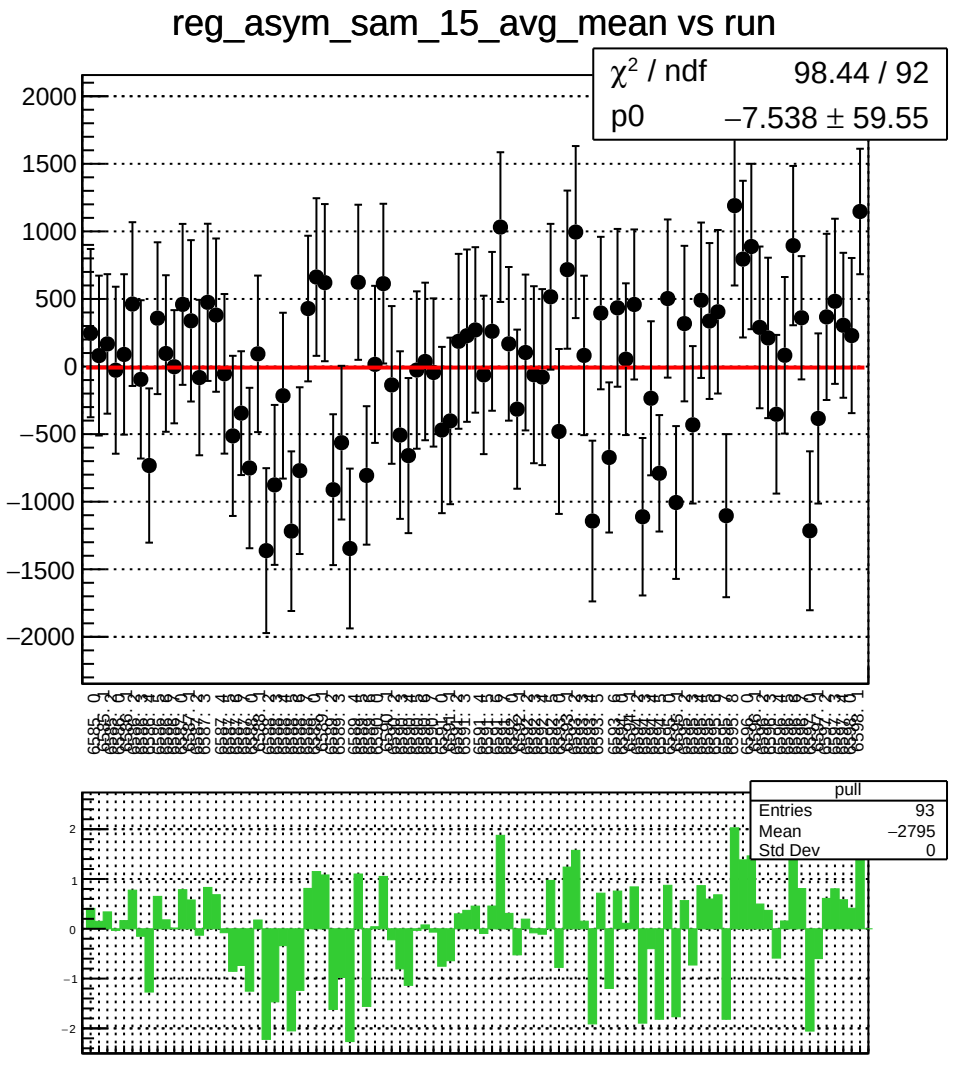

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.68 / 92
p0 0.04621 ± 0.03162
pull
Entries 93
Mean 21.21
Std Dev 0
pull1D
Entries 93
Mean 0.01863
Std Dev 0.9312

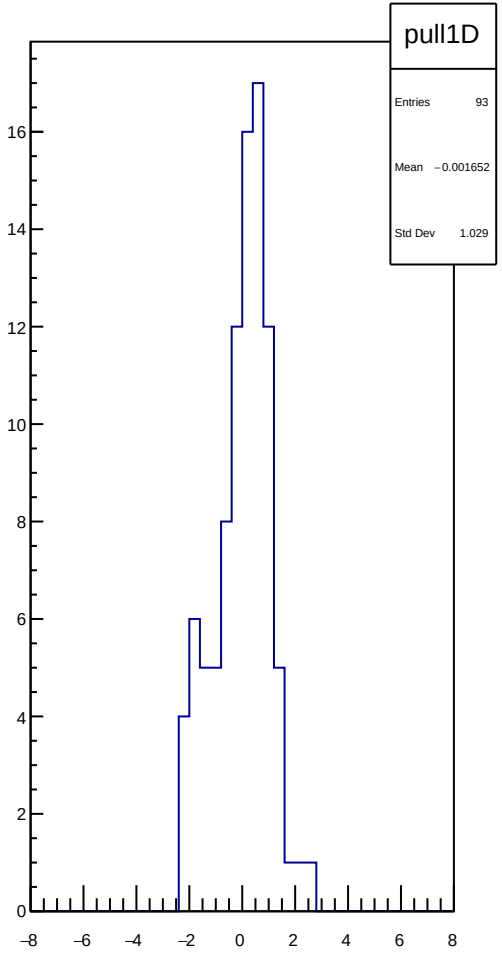

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.171e+04 / 92
p0 29.23 ± 0.02236
90
80
70
60
50
40
30
20

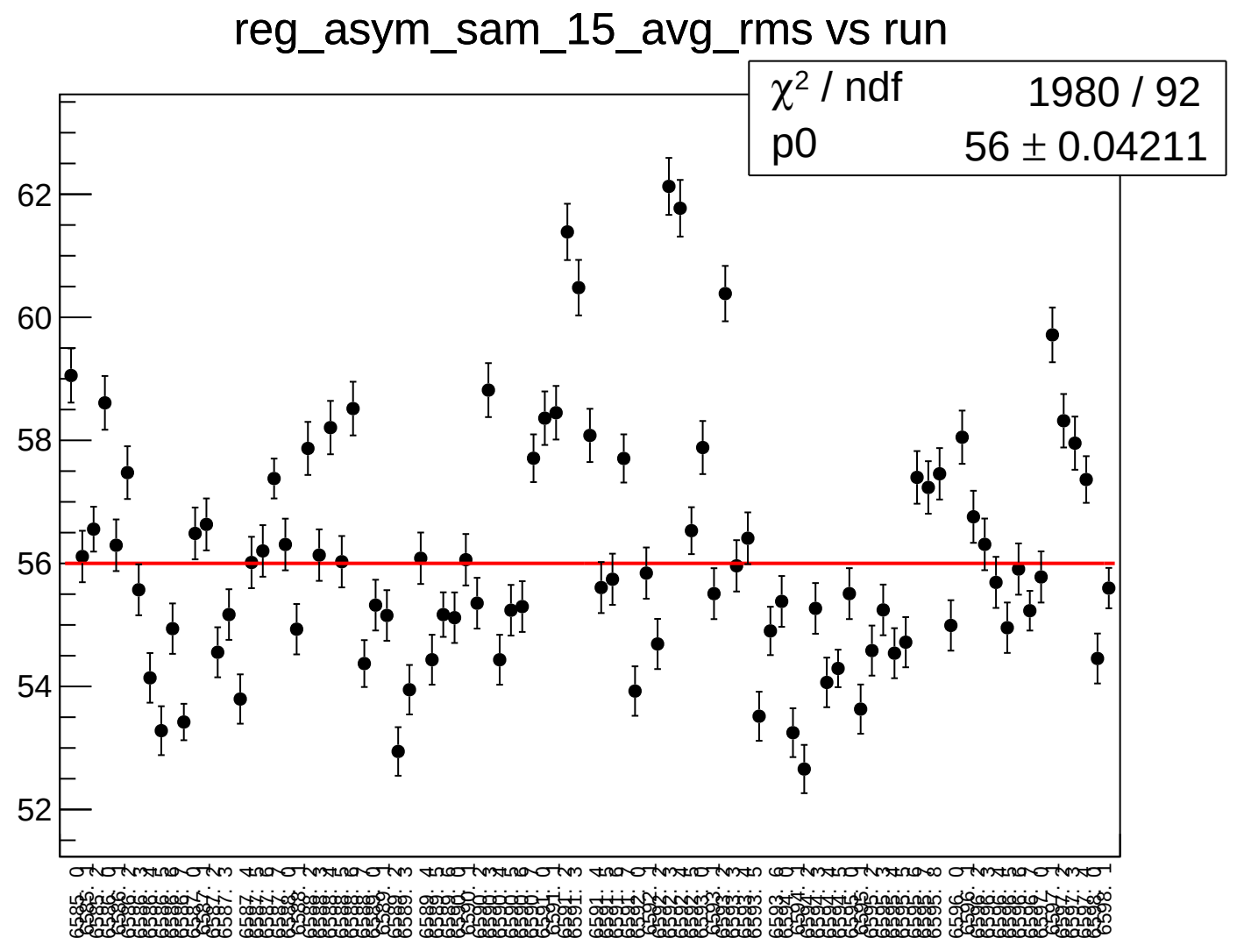

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.21 / 92
p0 −2.855e−15 ± 6.761e−15
pull
Entries 93
Mean −104.6
Std Dev 0

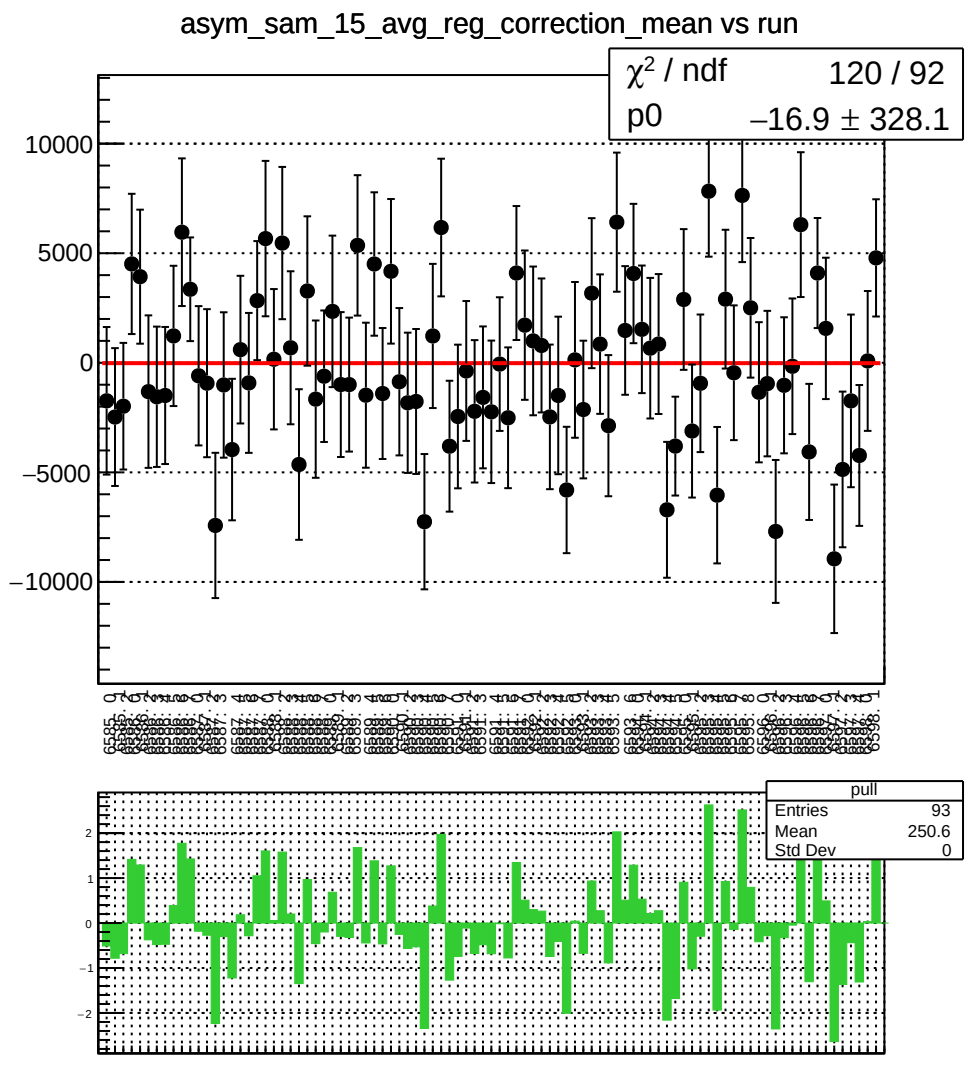

pull1D
Entries 93
Mean −0.03053
Std Dev 0.9899

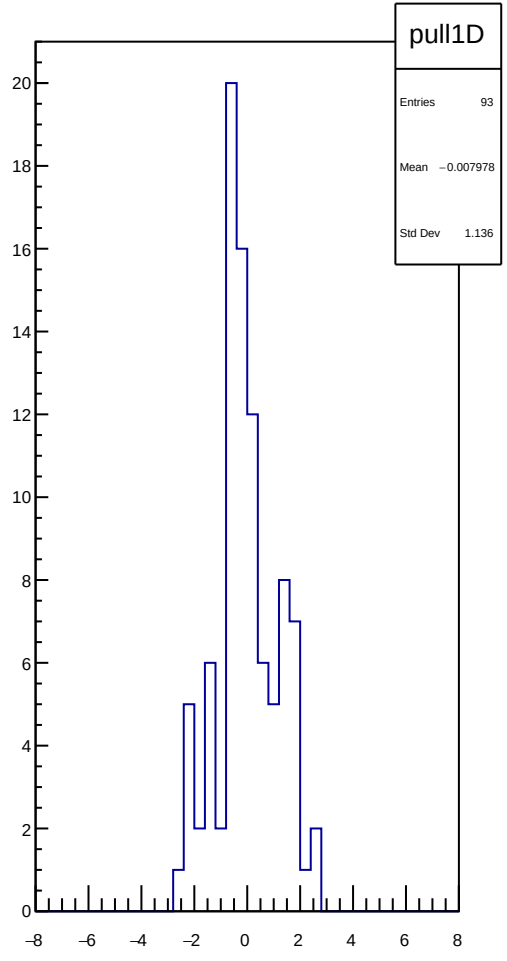

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.419e+05 / 92
p0 4.848e−12 ± 4.78e−15
40
35
30
25
20
15
10
5

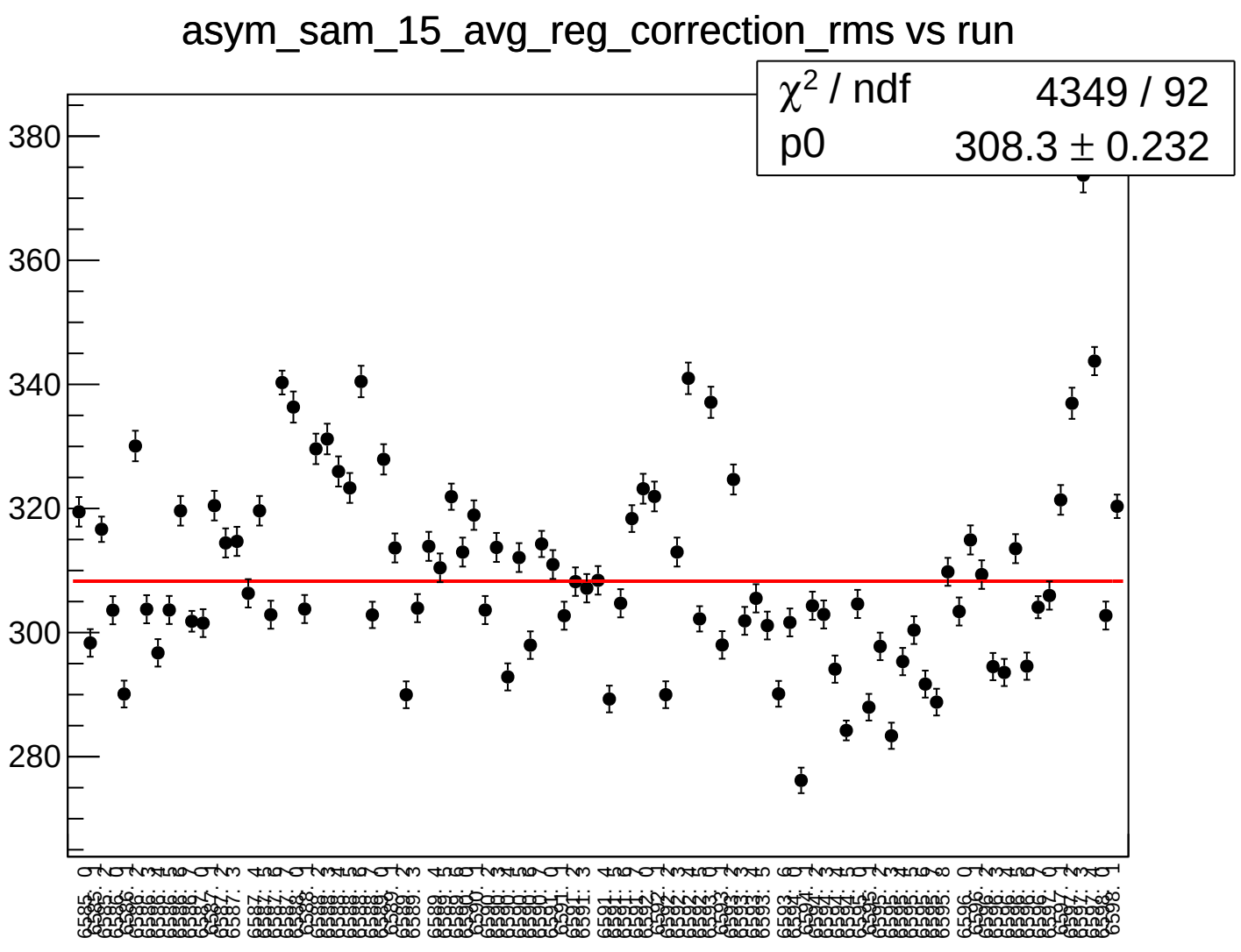

reg_asym_sam_15_avg_mean vs run
χ² / ndf 98.44 / 92
p0 −7.538 ± 59.55
pull
Entries 93
Mean −2795
Std Dev 0

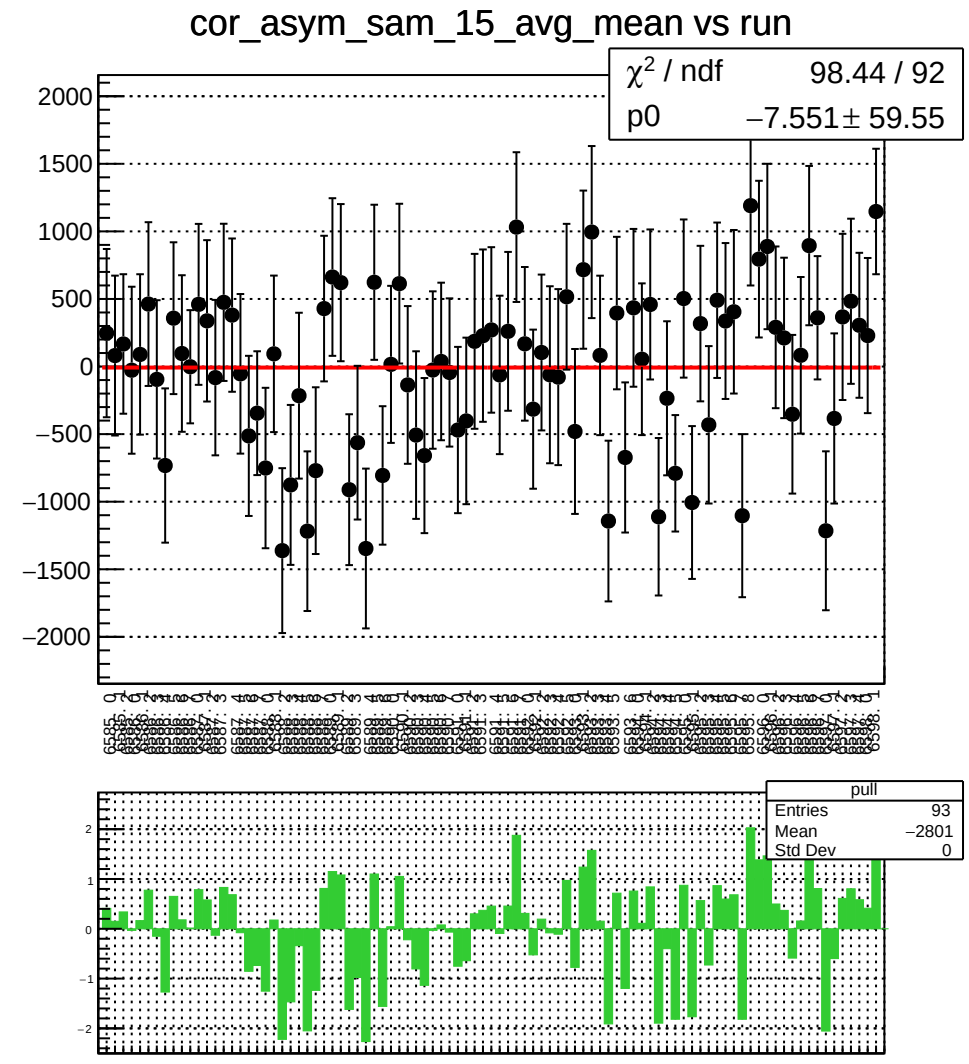

pull1D
Entries 93
Mean −0.001652
Std Dev 1.029

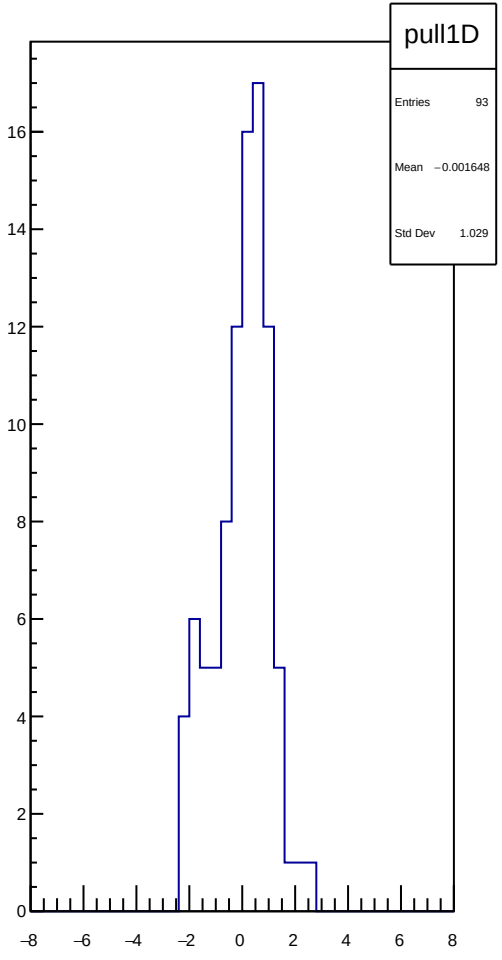

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1980 / 92
p0 56 ± 0.04211
62
60
58
56
54
52

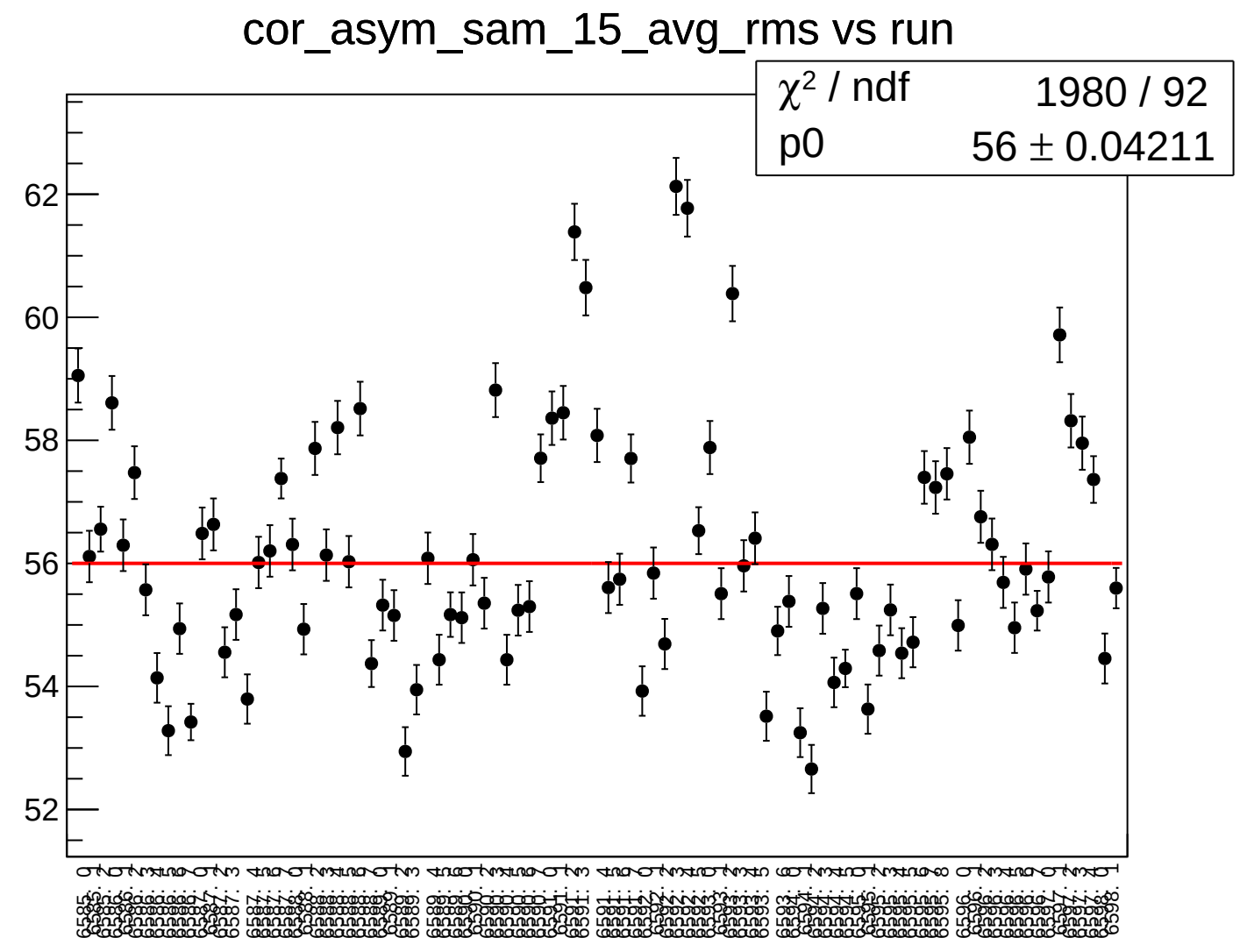

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 120 / 92
p0 −16.9 ± 328.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 250.6
Std Dev 0
2
1
0
−1
−2

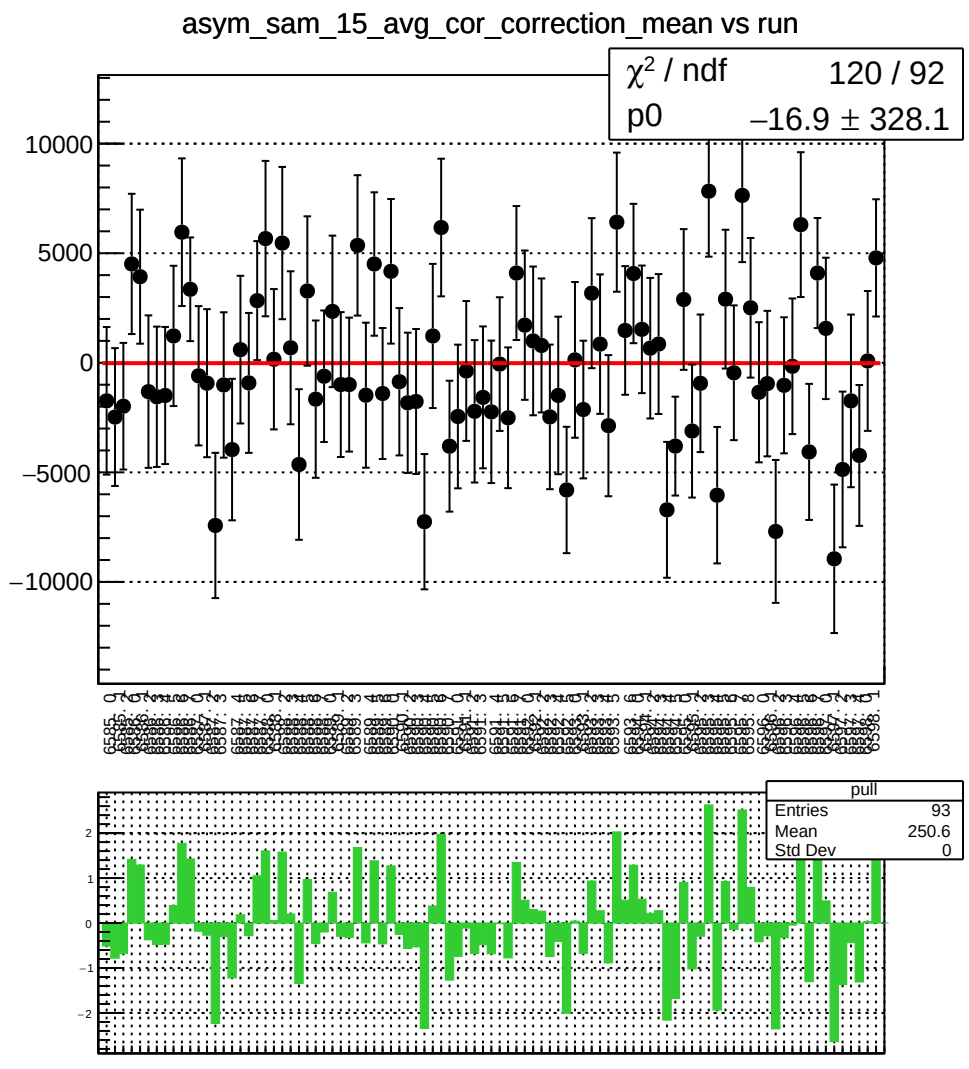

pull1D
Entries 93
Mean −0.007978
Std Dev 1.136
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

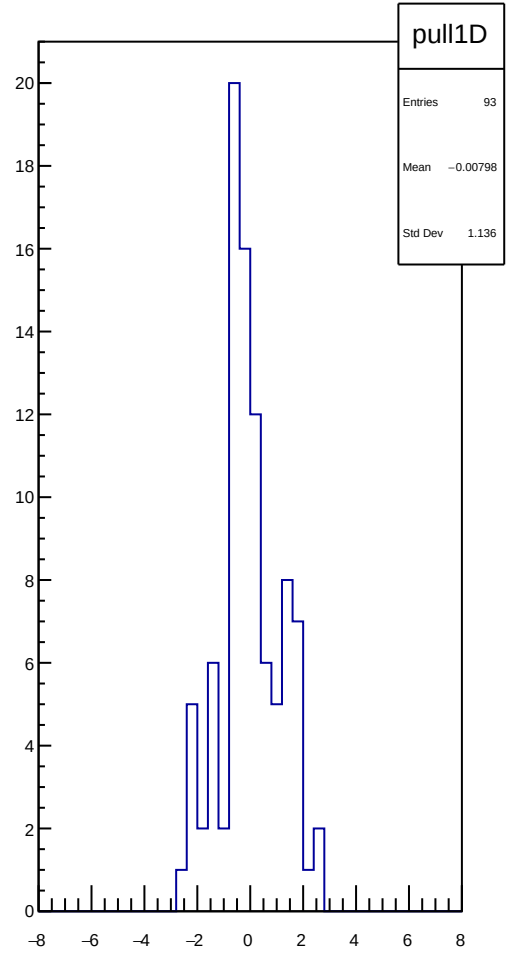

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 4349 / 92
p0 308.3 ± 0.232
380
360
340
320
300
280

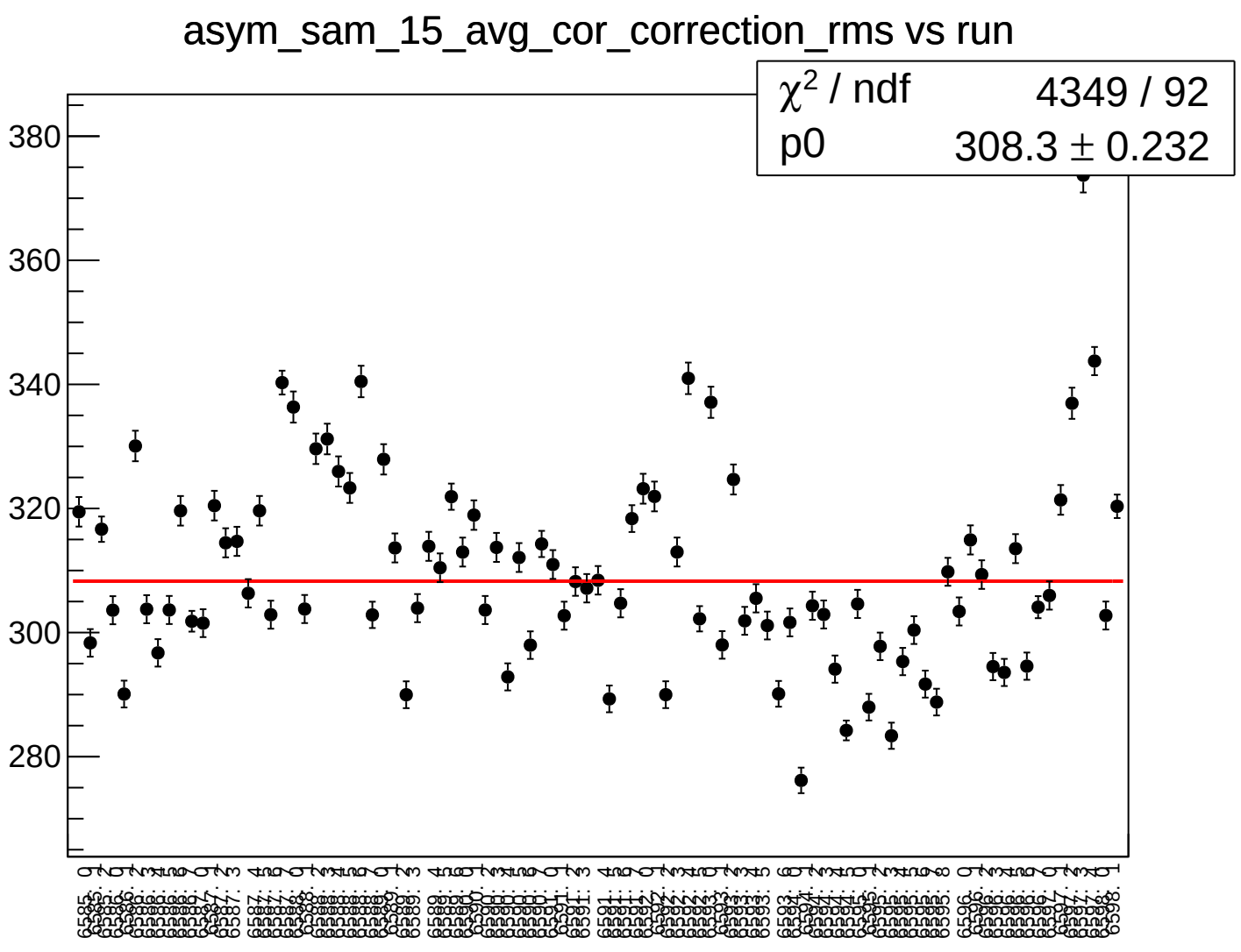

cor_asym_sam_15_avg_mean vs run
χ² / ndf 98.44 / 92
p0 −7.551 ± 59.55
pull
Entries 93
Mean −2801
Std Dev 0

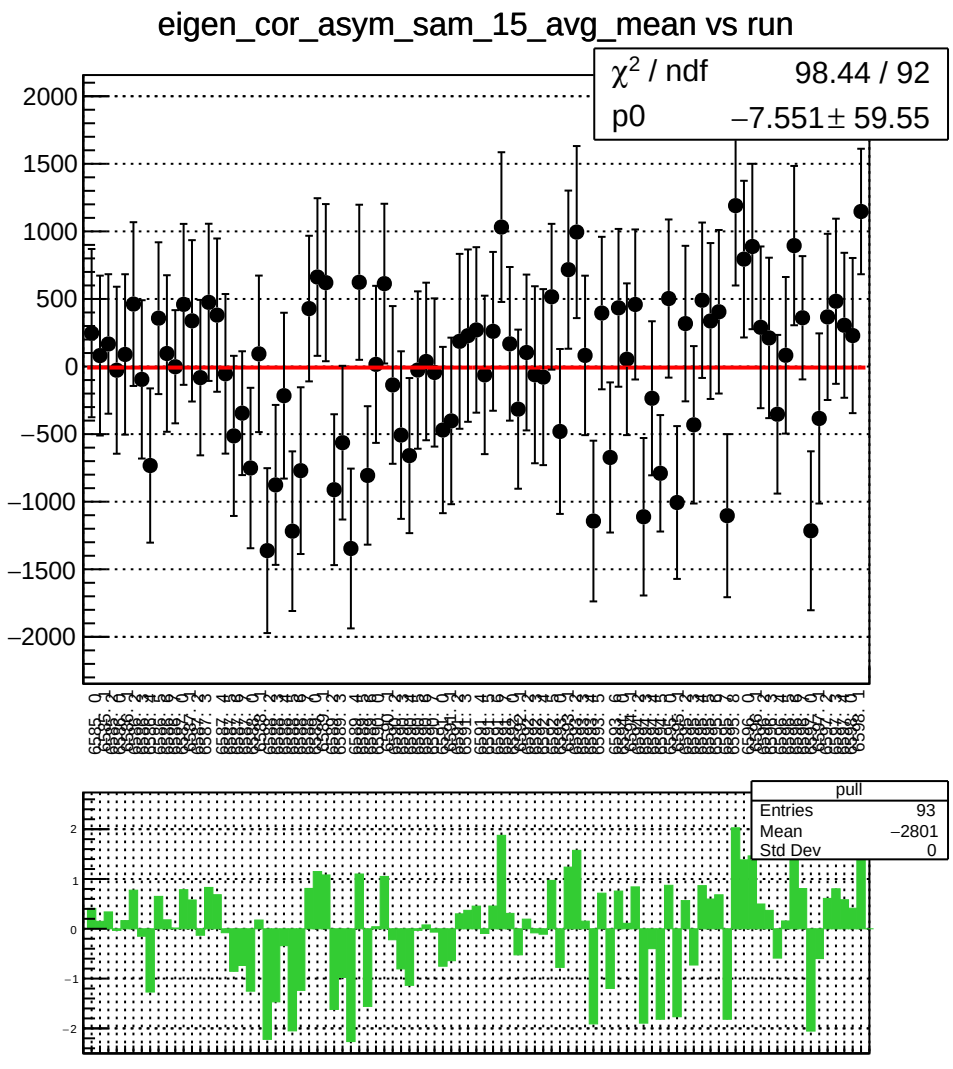

pull1D
Entries 93
Mean −0.001648
Std Dev 1.029

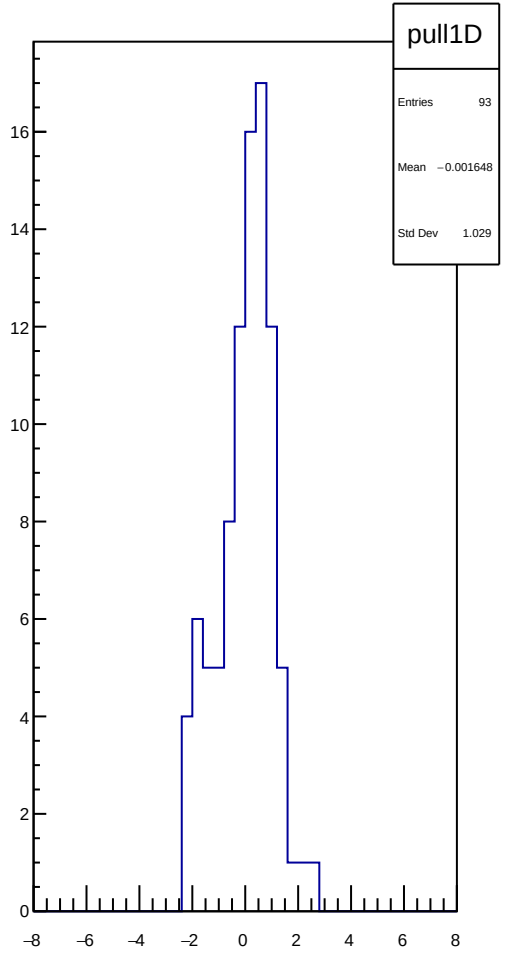

cor_asym_sam_15_avg_rms vs run
χ² / ndf 1980 / 92
p0 56 ± 0.04211
62
60
58
56
54
52

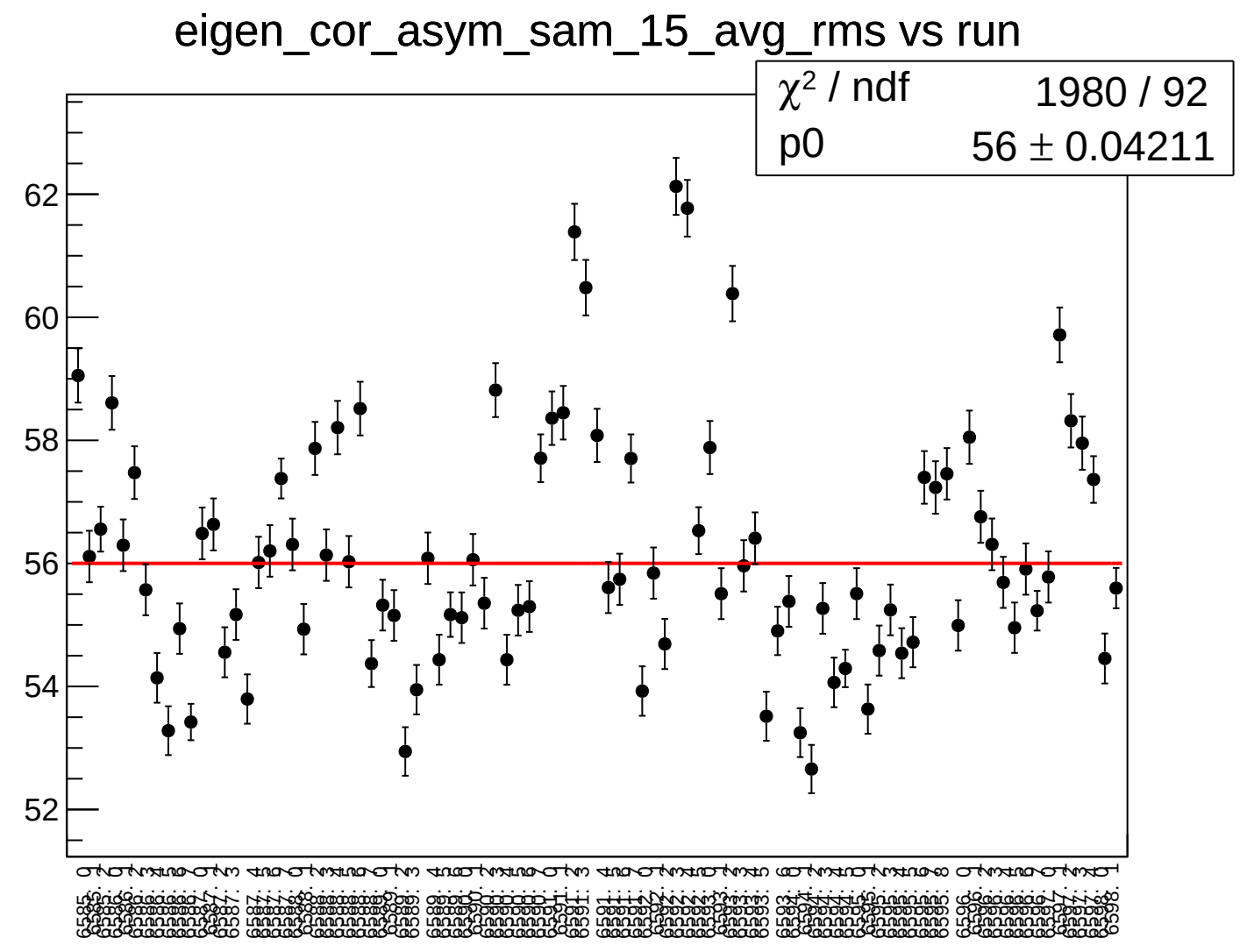

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 120 / 92
p0 −16.9 ± 328.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 250.6
Std Dev 0
2
1
0
−1
−2

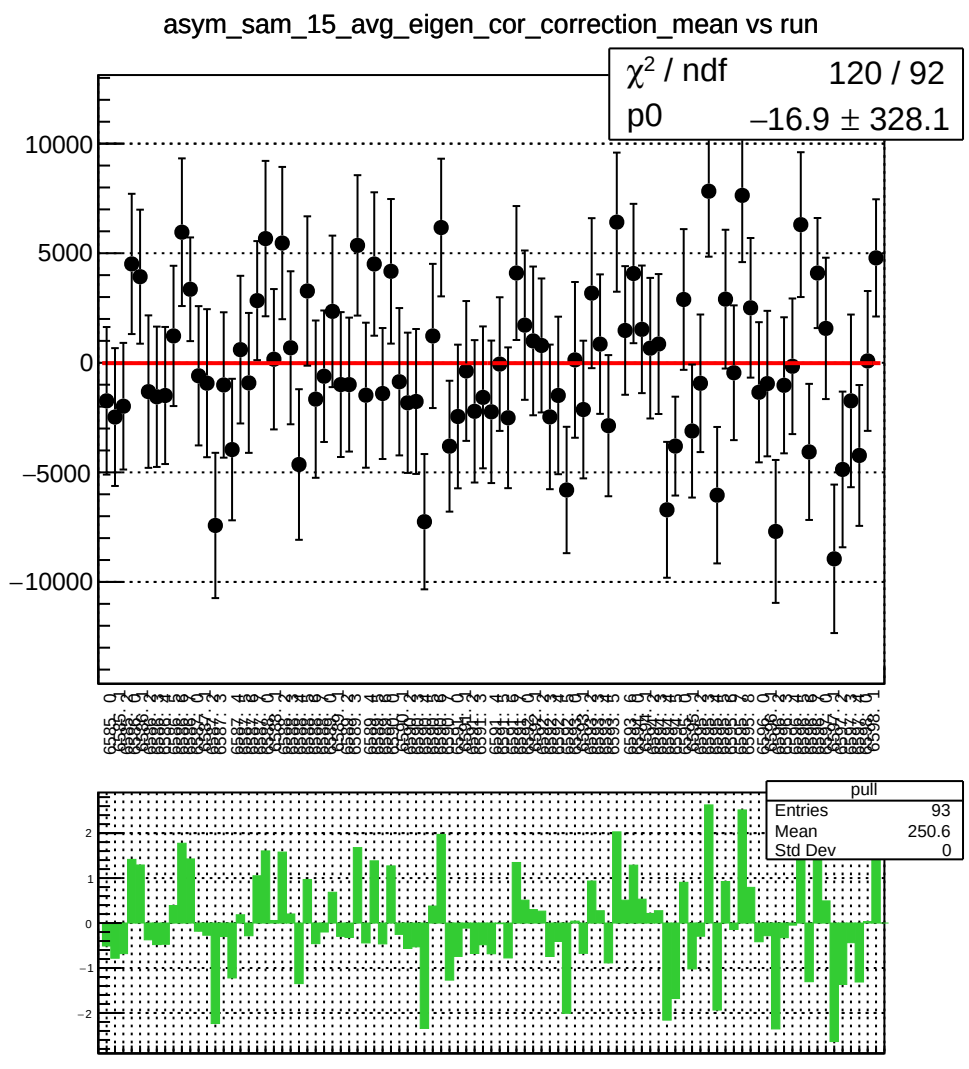

pull1D
Entries 93
Mean −0.00798
Std Dev 1.136
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

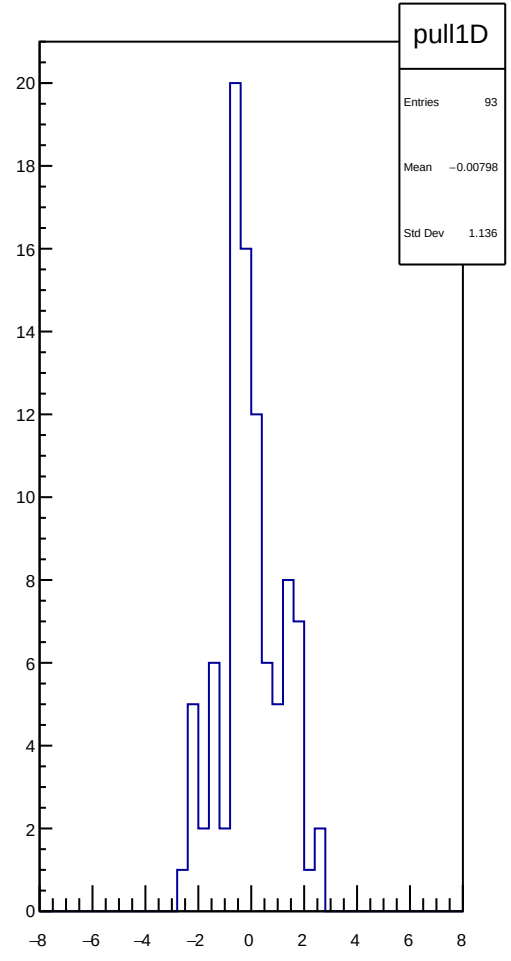

asym_sam_15_avg_cor_correction_rms vs run
χ^2 / ndf 4349 / 92
p0 308.3 ± 0.232
380
360
340
320
300
280

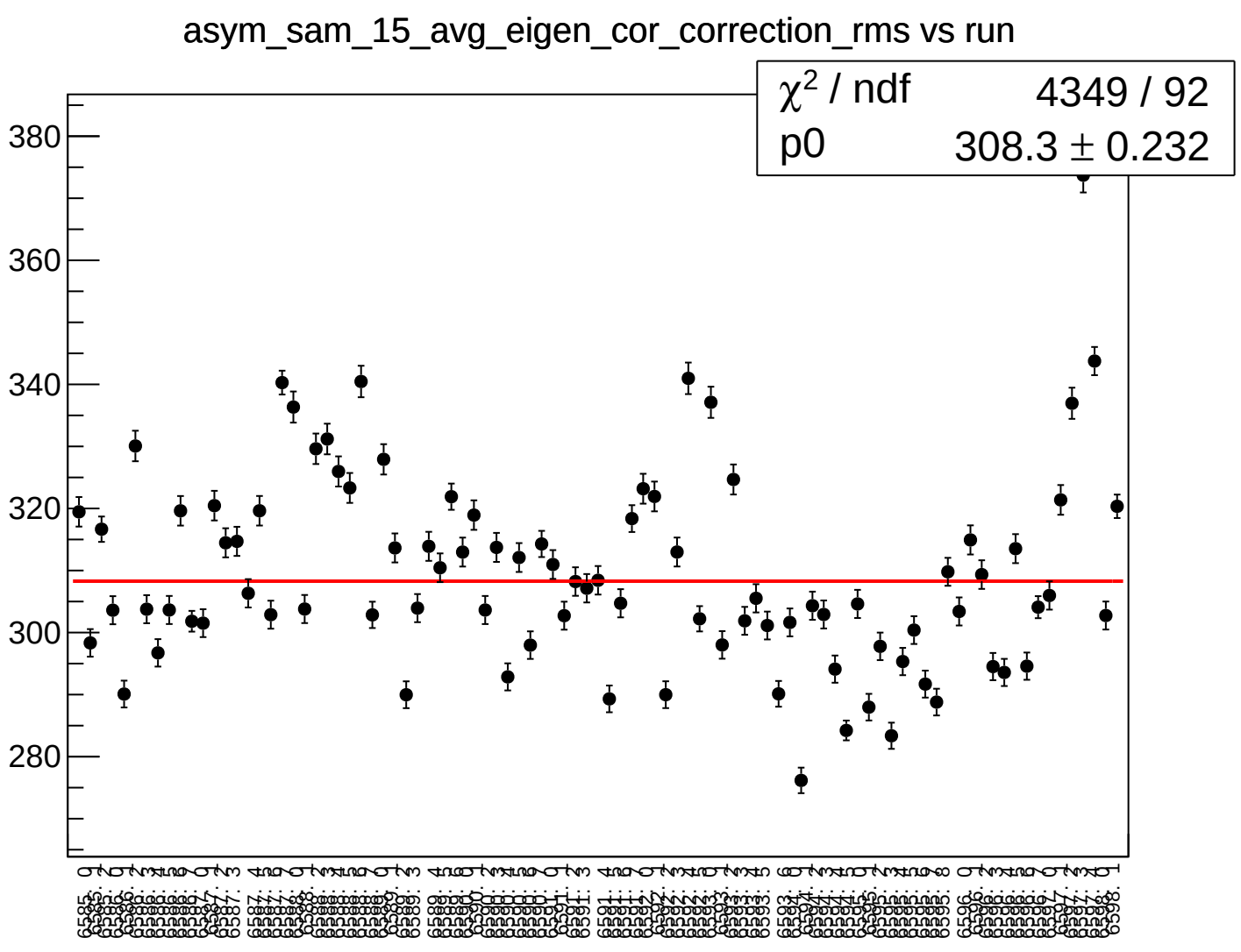

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 98.44 / 92
p0 −7.551 ± 59.55
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 93
Mean −2801
Std Dev 0
2
1
0
−1
−2

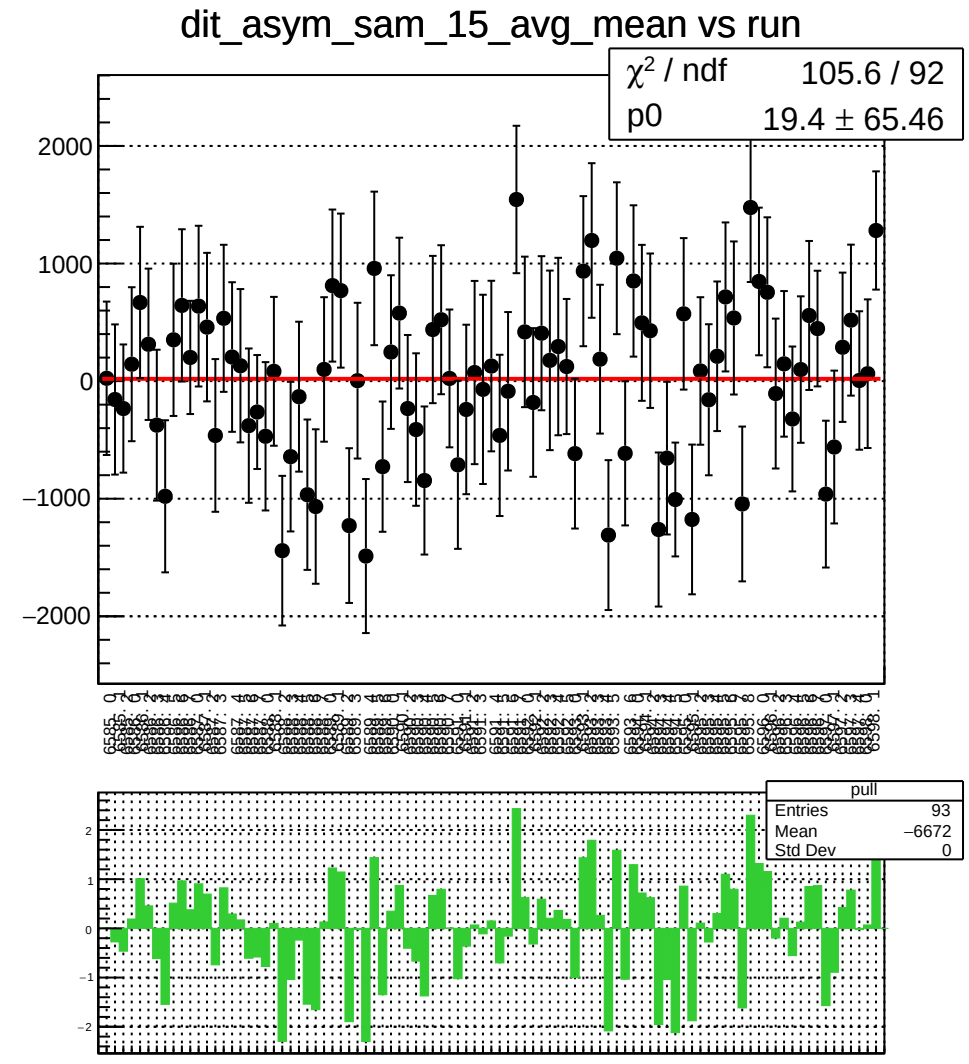

pull1D
Entries 93
Mean −0.001648
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

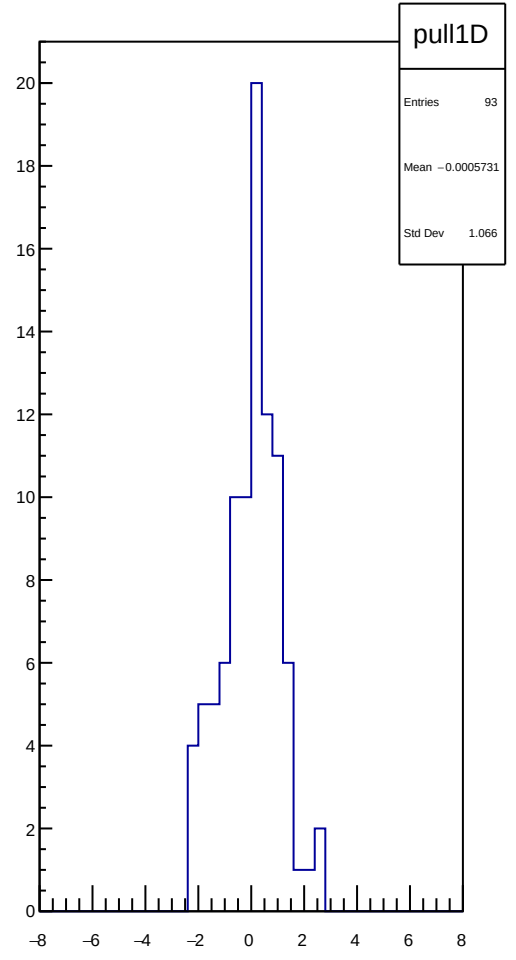

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1980 / 92
p0 56 ± 0.04211
62
60
58
56
54
52

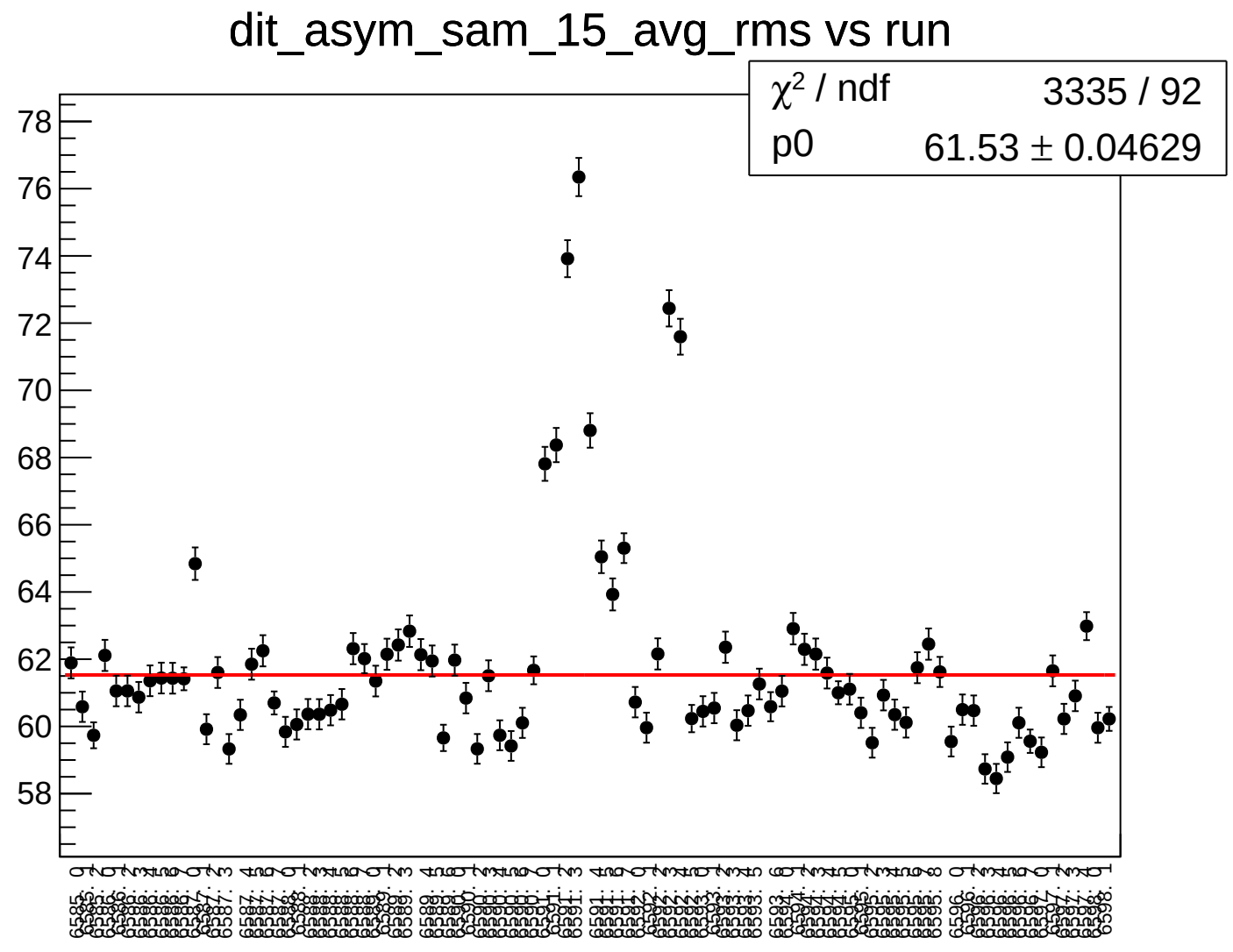

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 120 / 92
p0 −16.9 ± 328.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 250.6
Std Dev 0
2
1
0
−1
−2

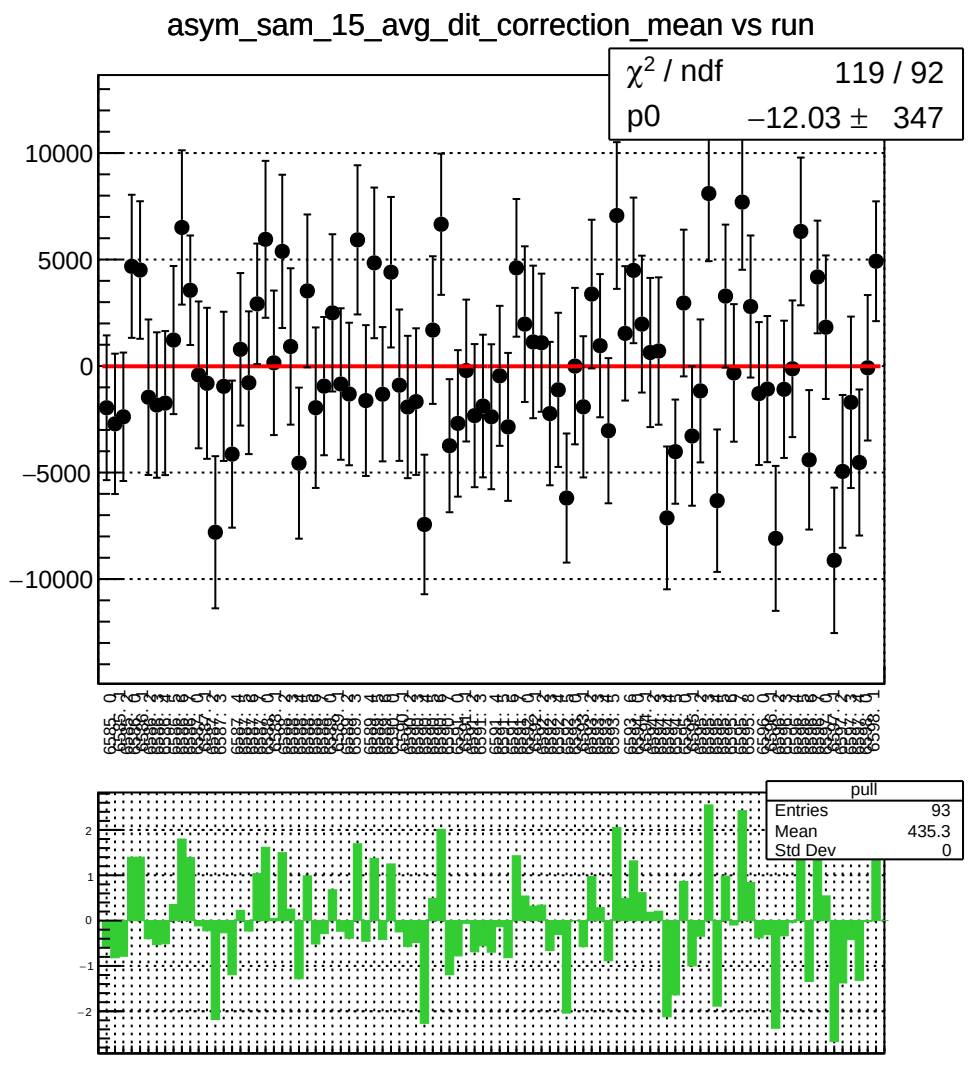

pull1D
Entries 93
Mean −0.00798
Std Dev 1.136
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

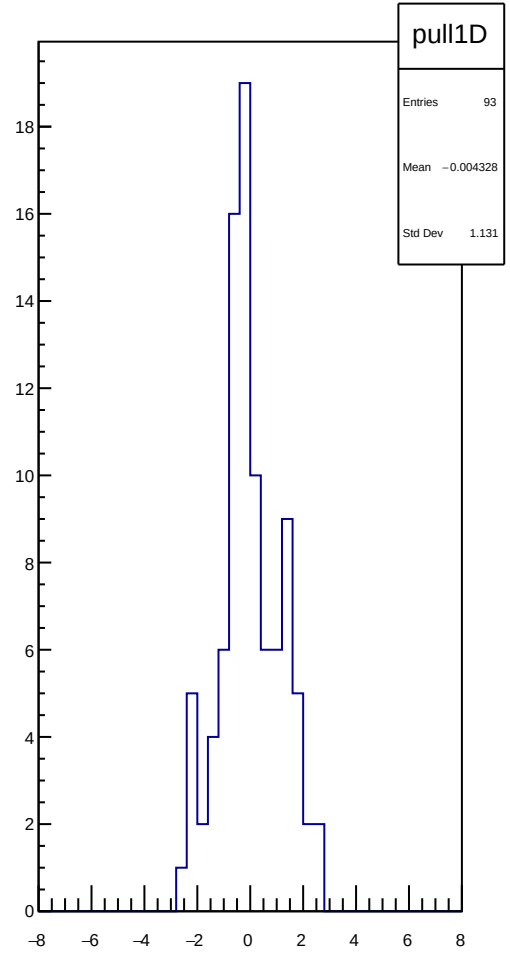

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 4349 / 92
p0 308.3 ± 0.232
380
360
340
320
300
280

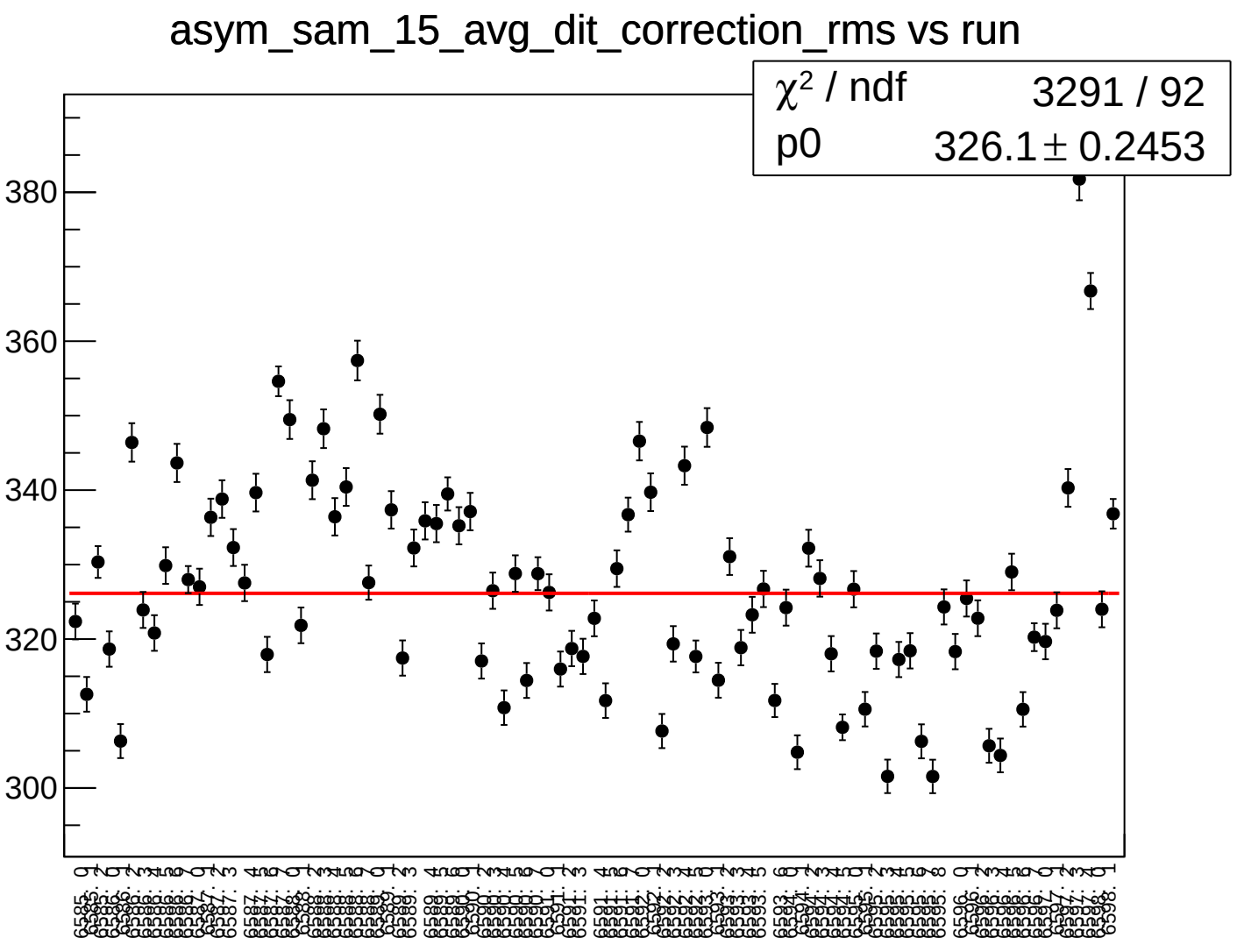

dit_asym_sam_15_avg_mean vs run
χ² / ndf 105.6 / 92
p0 19.4 ± 65.46
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −6672
Std Dev 0
2
1
0
−1
−2

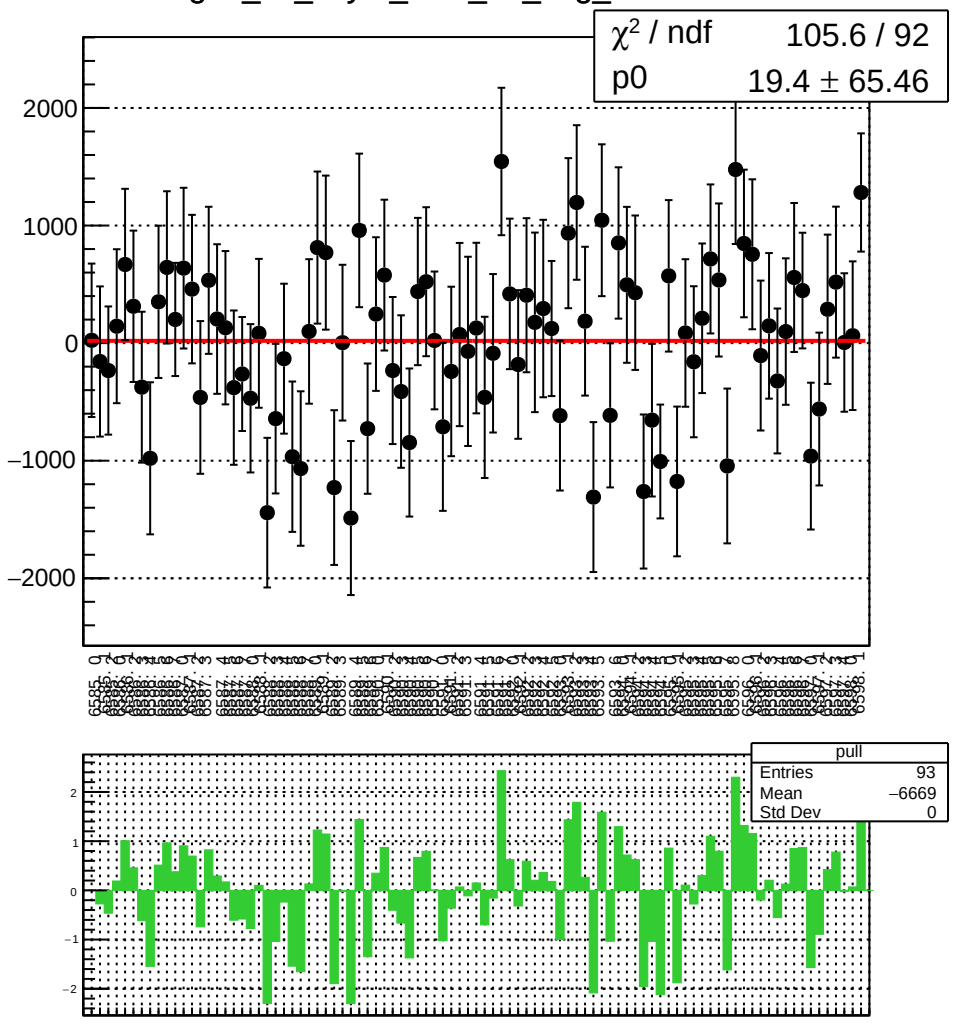

pull1D
Entries 93
Mean −0.0005731
Std Dev 1.066
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

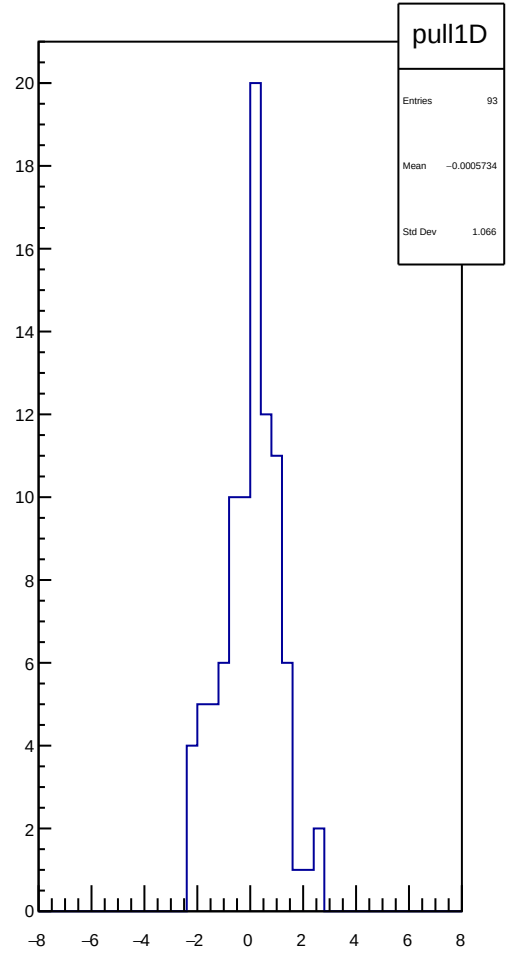

dit_asym_sam_15_avg_rms vs run
χ² / ndf 3335 / 92
p0 61.53 ± 0.04629
78
76
74
72
70
68
66
64
62
60
58

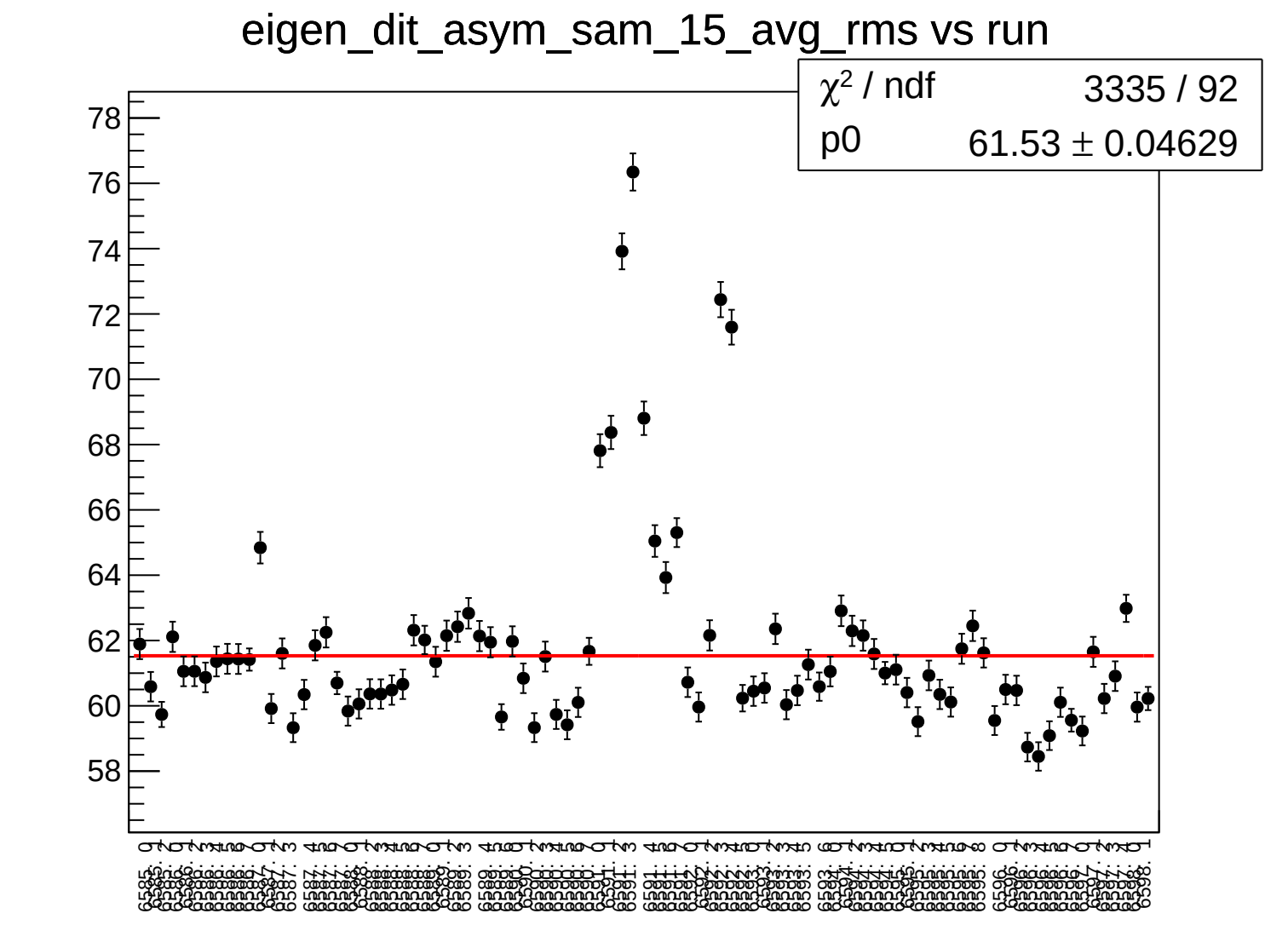

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 119 / 92
p0 −12.03 ± 347
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 435.3
Std Dev 0
2
1
0
−1
−2

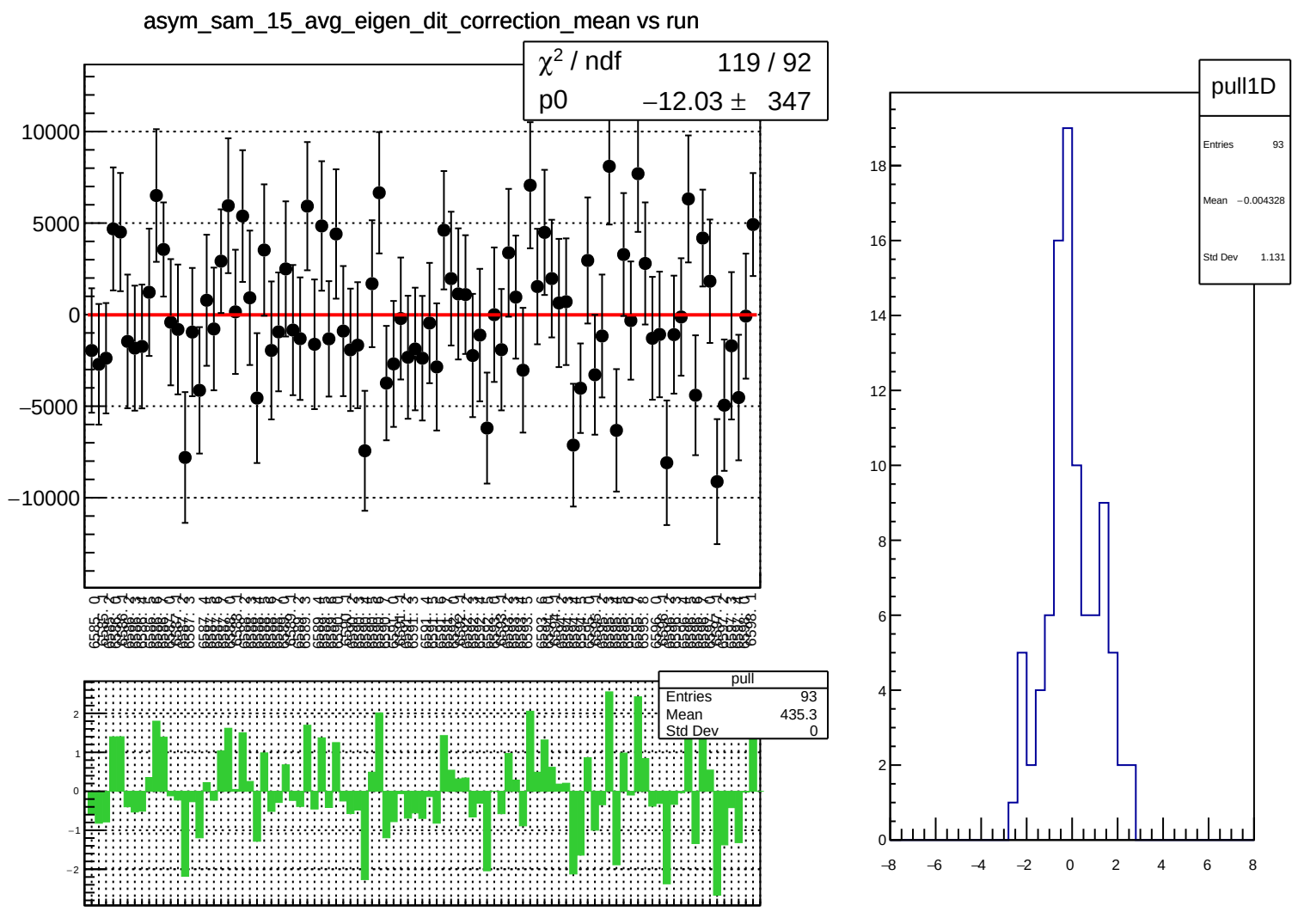

pull1D
Entries 93
Mean −0.004328
Std Dev 1.131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

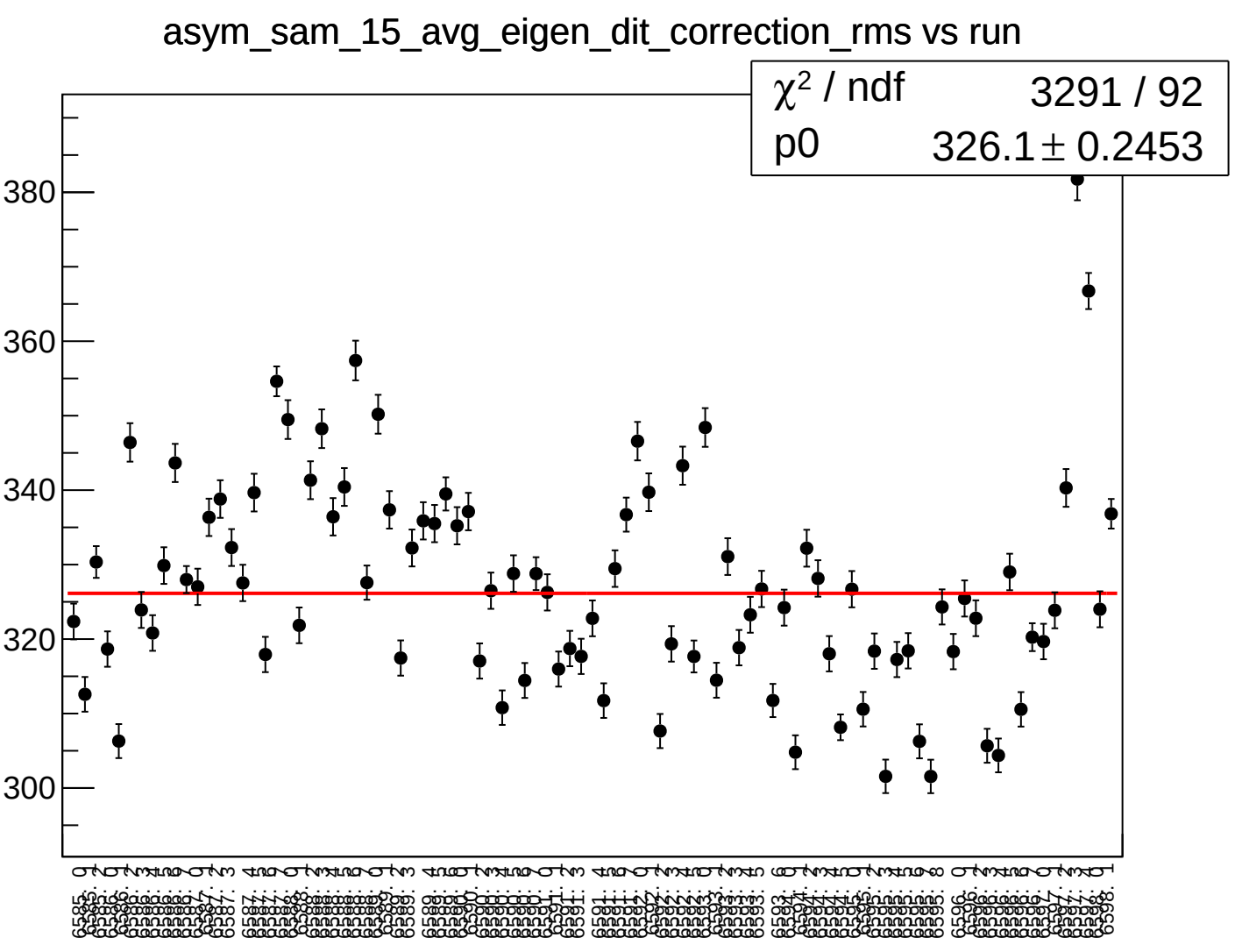

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3291 / 92
p0 326.1 ± 0.2453
380
360
340
320
300

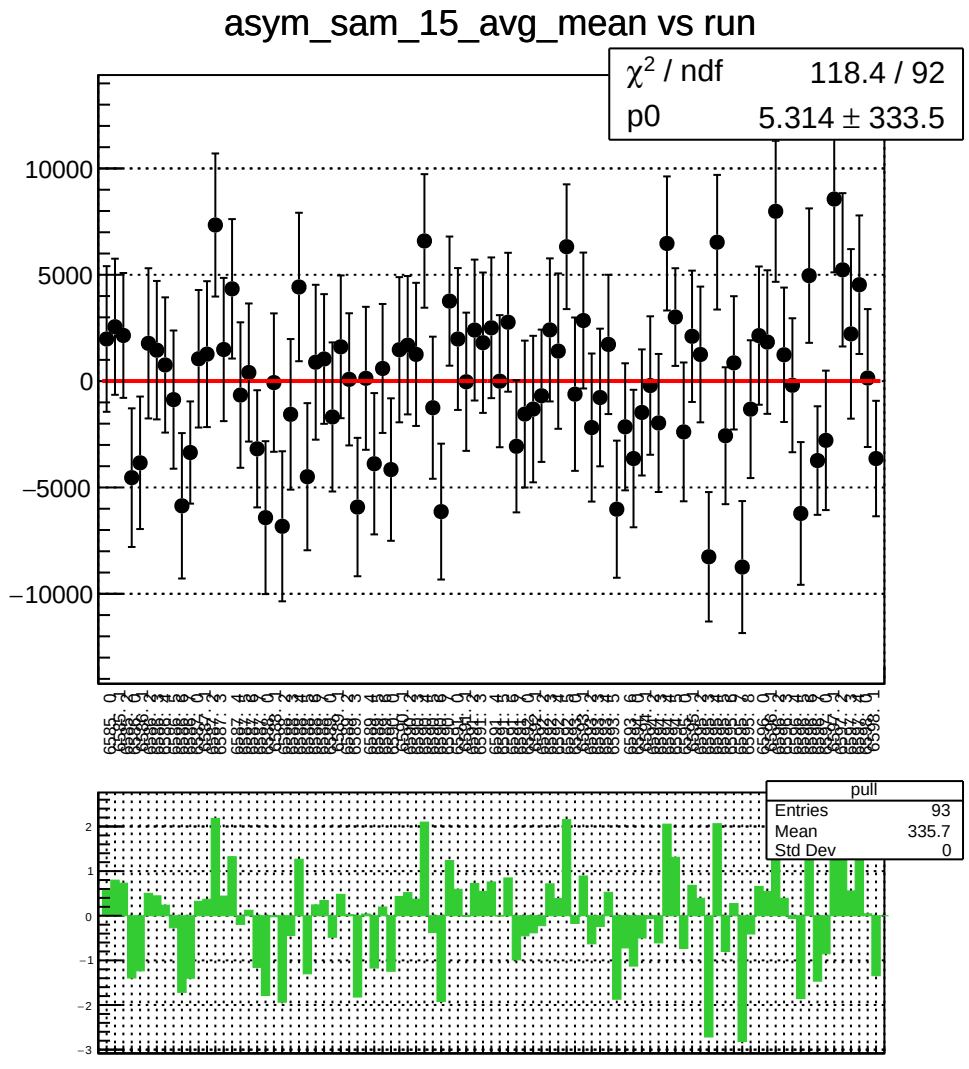

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 105.6 / 92
p0 19.4 ± 65.46
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −6669
Std Dev 0
2
1
0
−1
−2

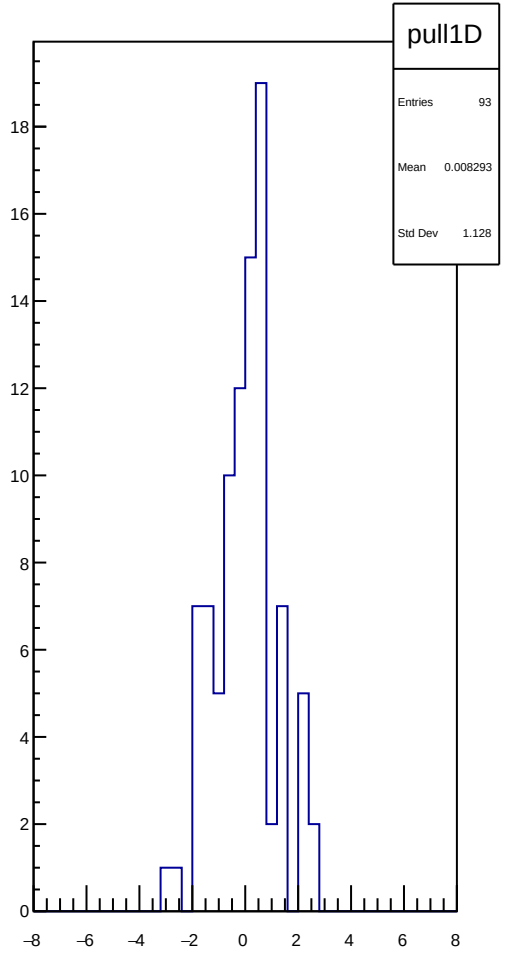

pull1D
Entries 93
Mean −0.0005734
Std Dev 1.066
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

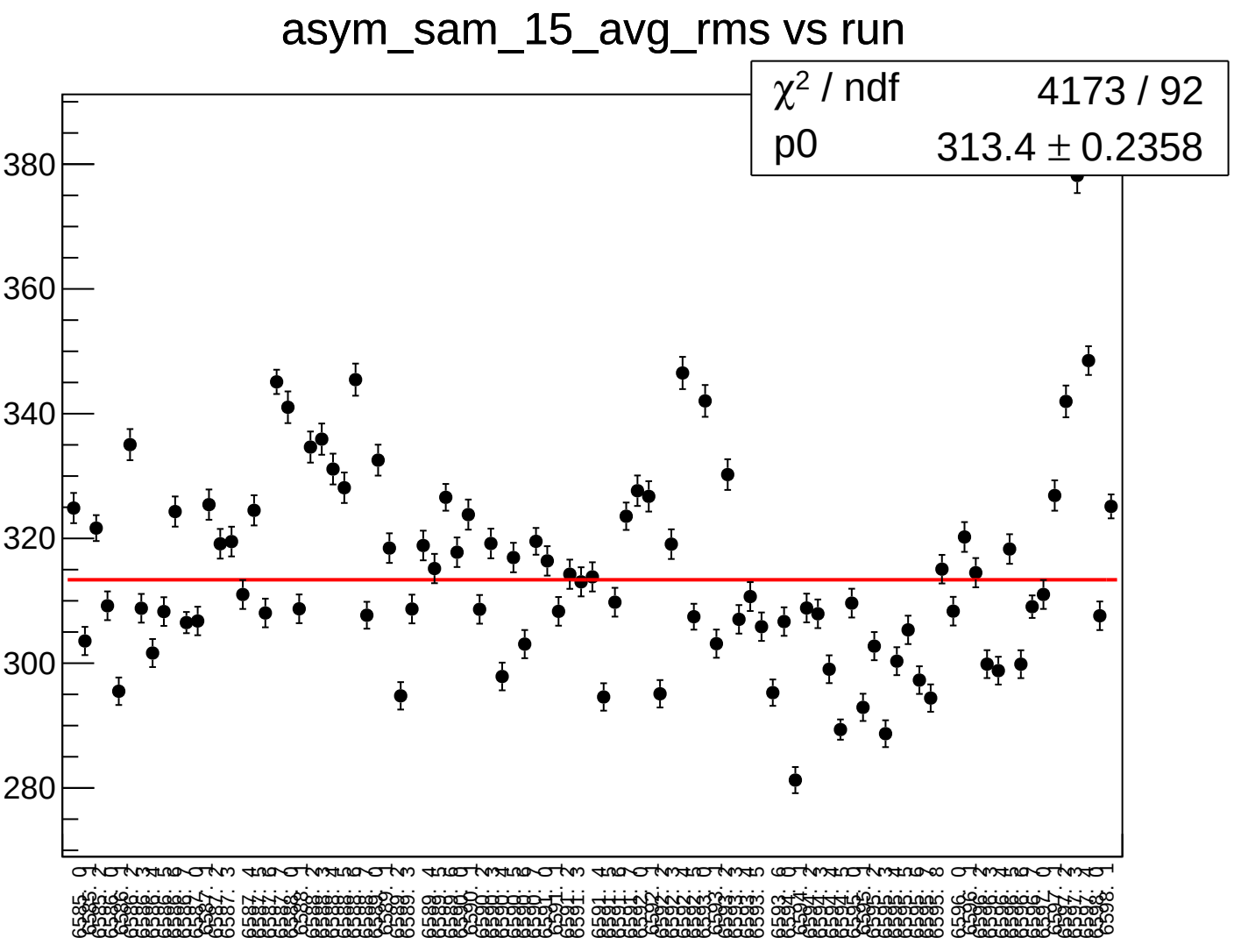

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 3335 / 92
p0 61.53 ± 0.04629
78
76
74
72
70
68
66
64
62
60
58

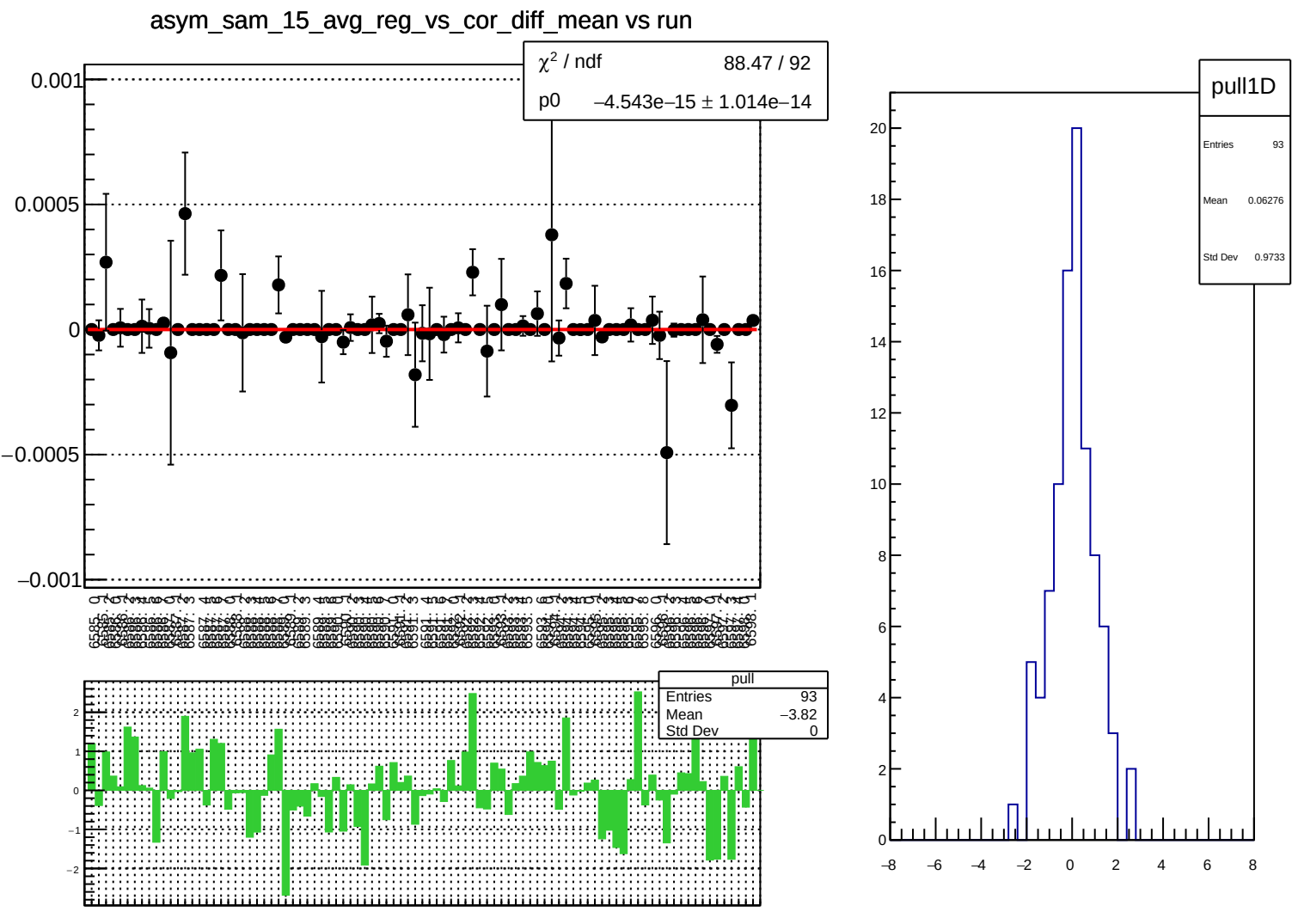

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 119 / 92
p0 −12.03 ± 347
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 435.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.004328
Std Dev 1.131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

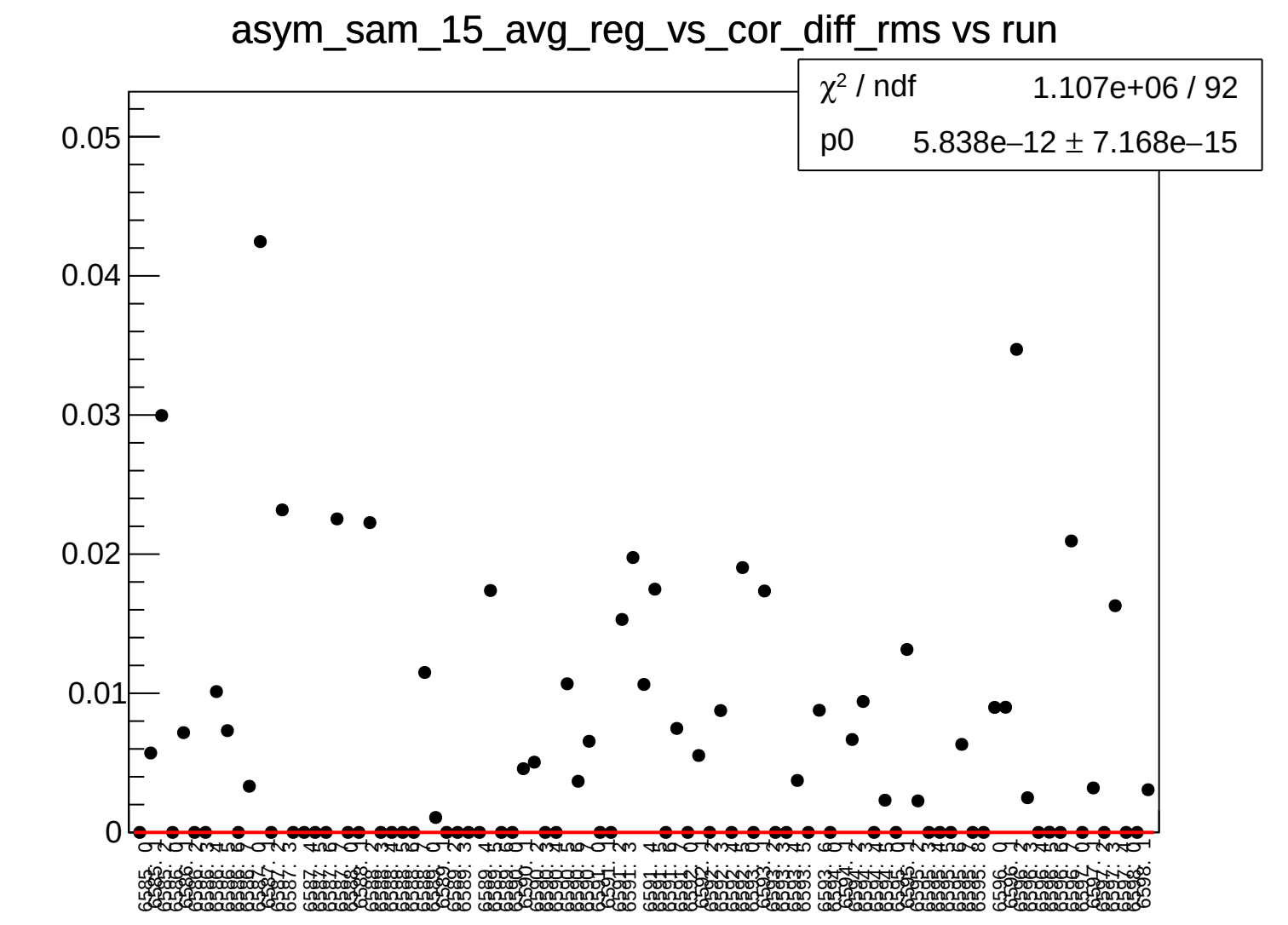

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3291 / 92
p0 326.1 ± 0.2453
380
360
340
320
300

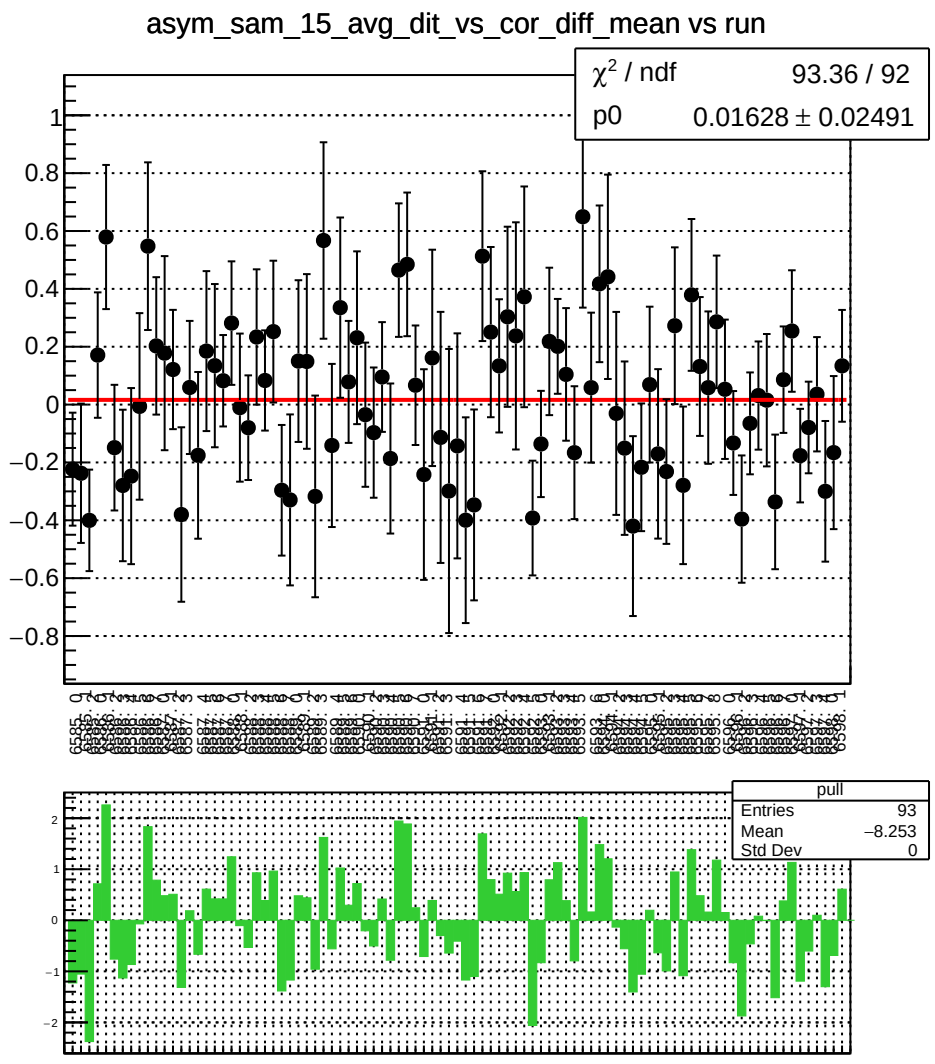

asym_sam_15_avg_mean vs run
χ² / ndf 118.4 / 92
p0 5.314 ± 333.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 335.7
Std Dev 0
2
1
0
−1
−2
−3

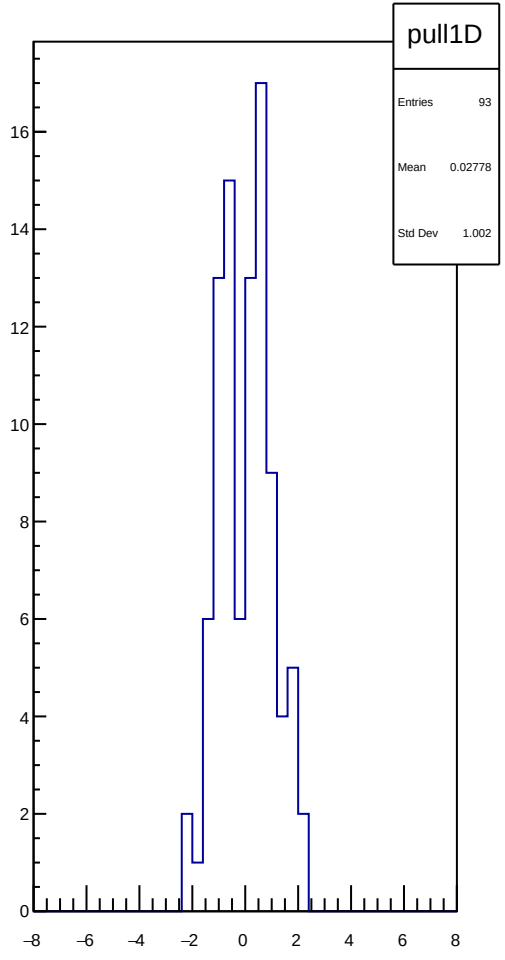

pull1D
Entries 93
Mean 0.008293
Std Dev 1.128
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

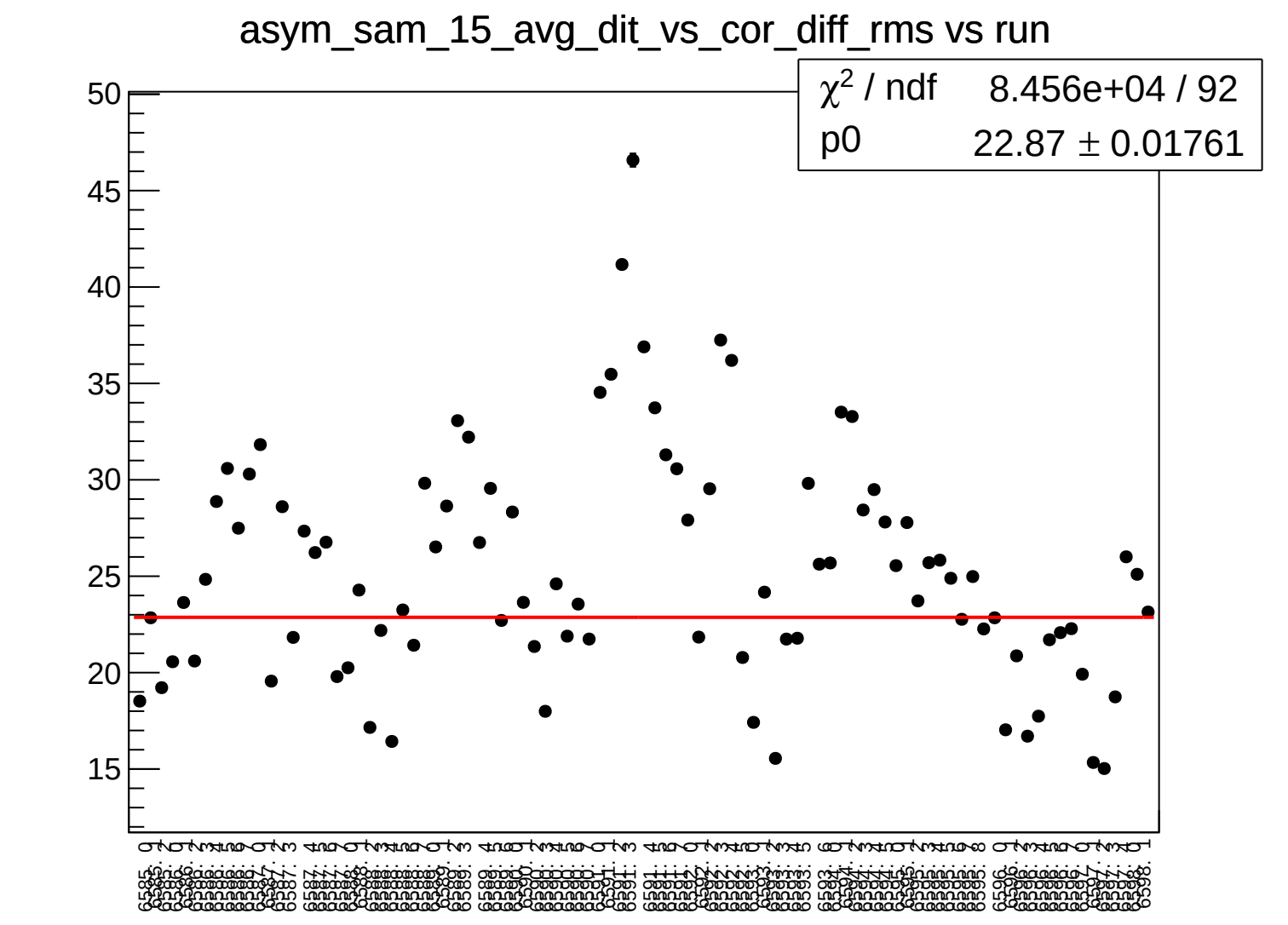

asym_sam_15_avg_rms vs run
χ² / ndf 4173 / 92
p0 313.4 ± 0.2358
380
360
340
320
300
280

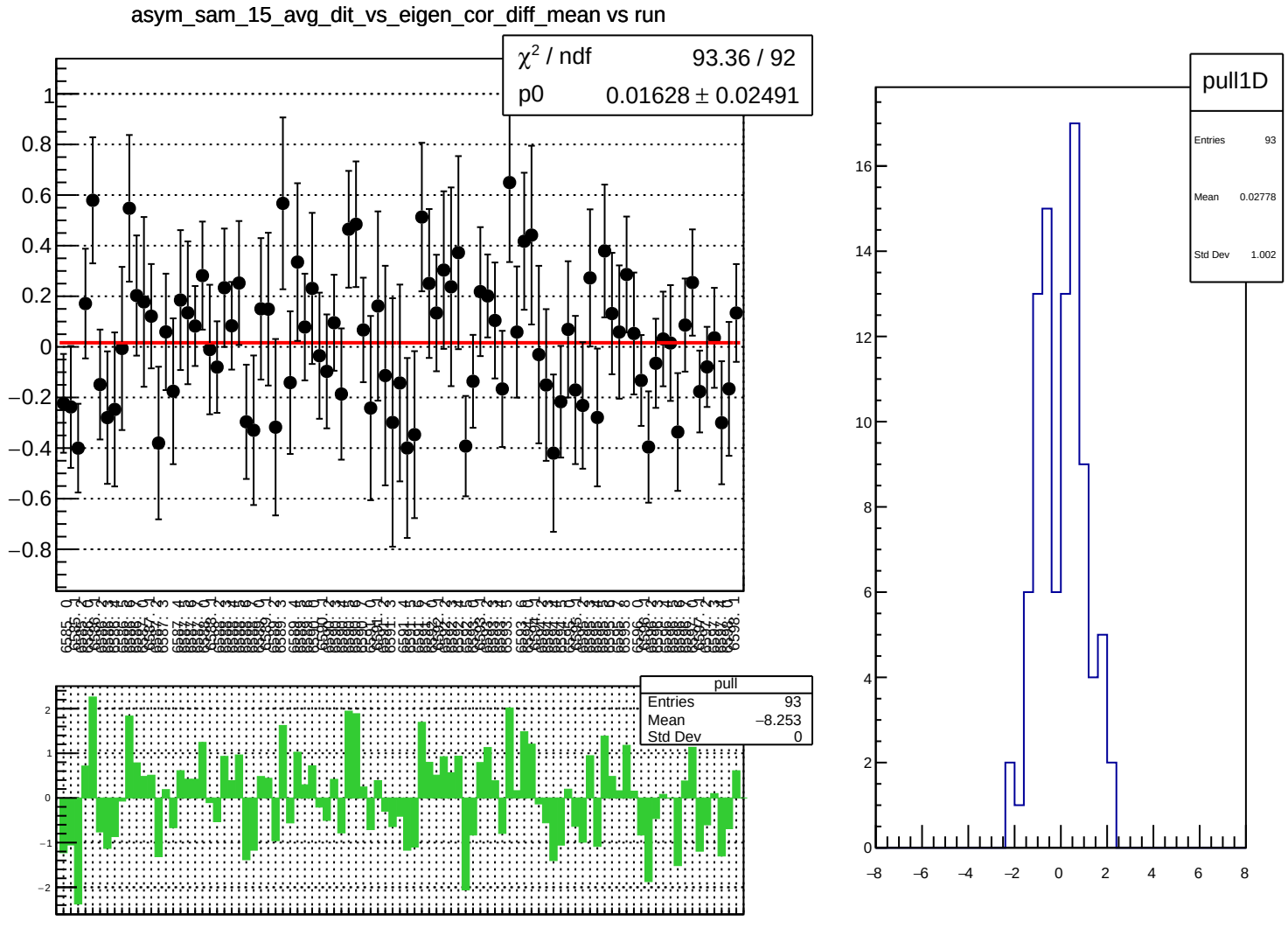

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.47 / 92
p0 −4.543e−15 ± 1.014e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean −3.82
Std Dev 0
pull1D
Entries 93
Mean 0.06276
Std Dev 0.9733

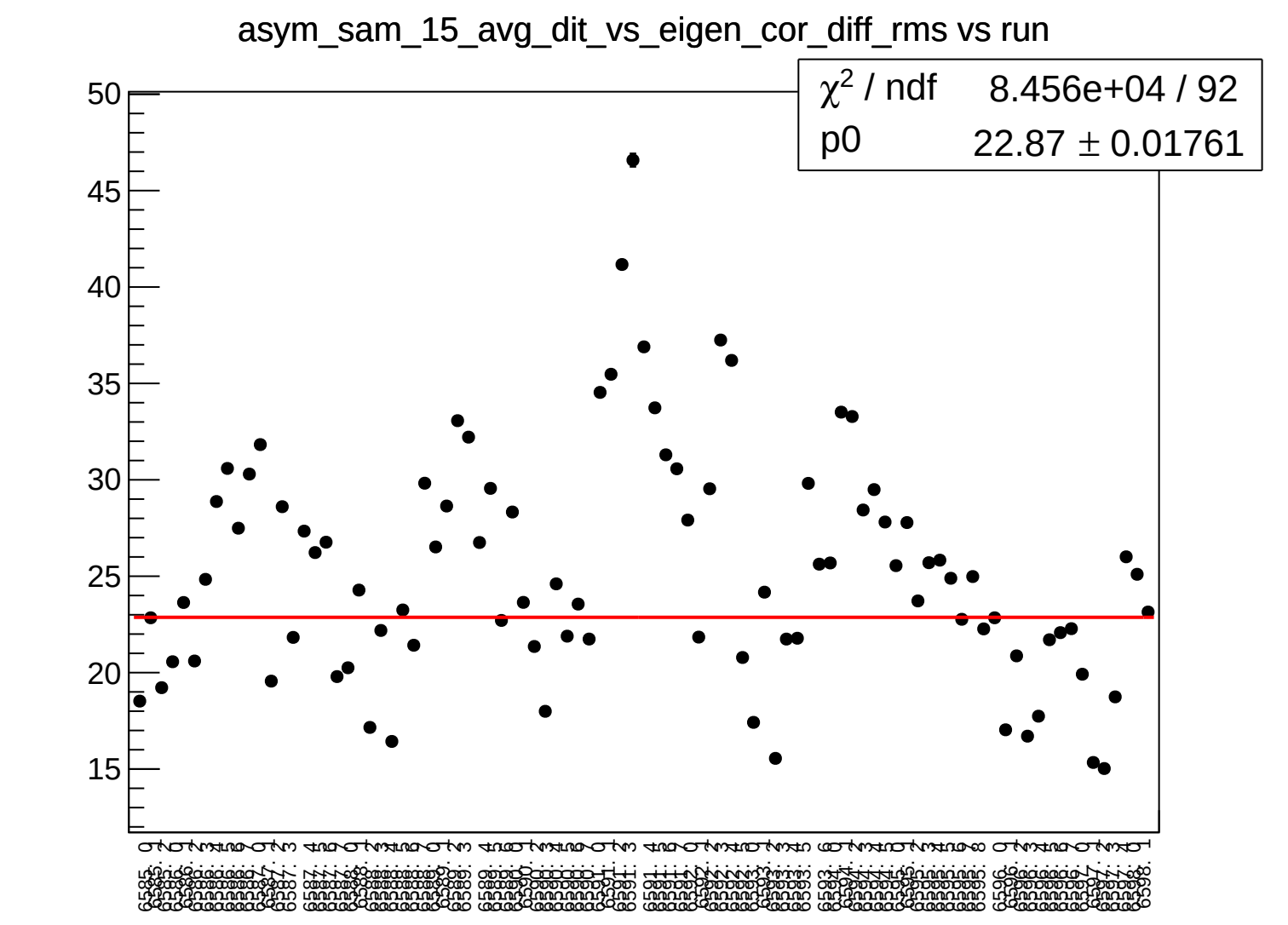

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 92
p0 5.838e−12 ± 7.168e−15
0.05
0.04
0.03
0.02
0.01
0

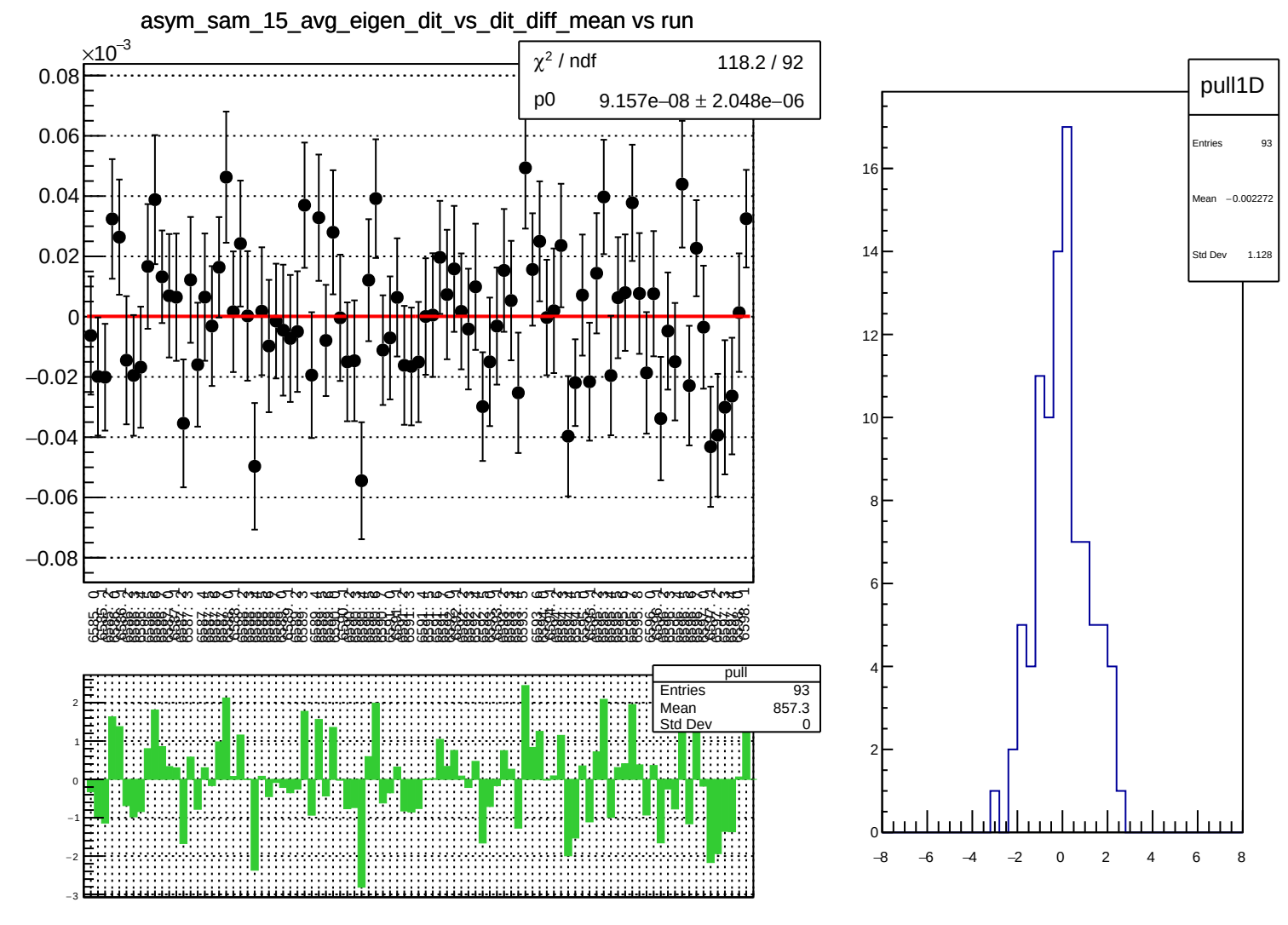

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.36 / 92
p0 0.01628 ± 0.02491
pull
Entries 93
Mean −8.253
Std Dev 0

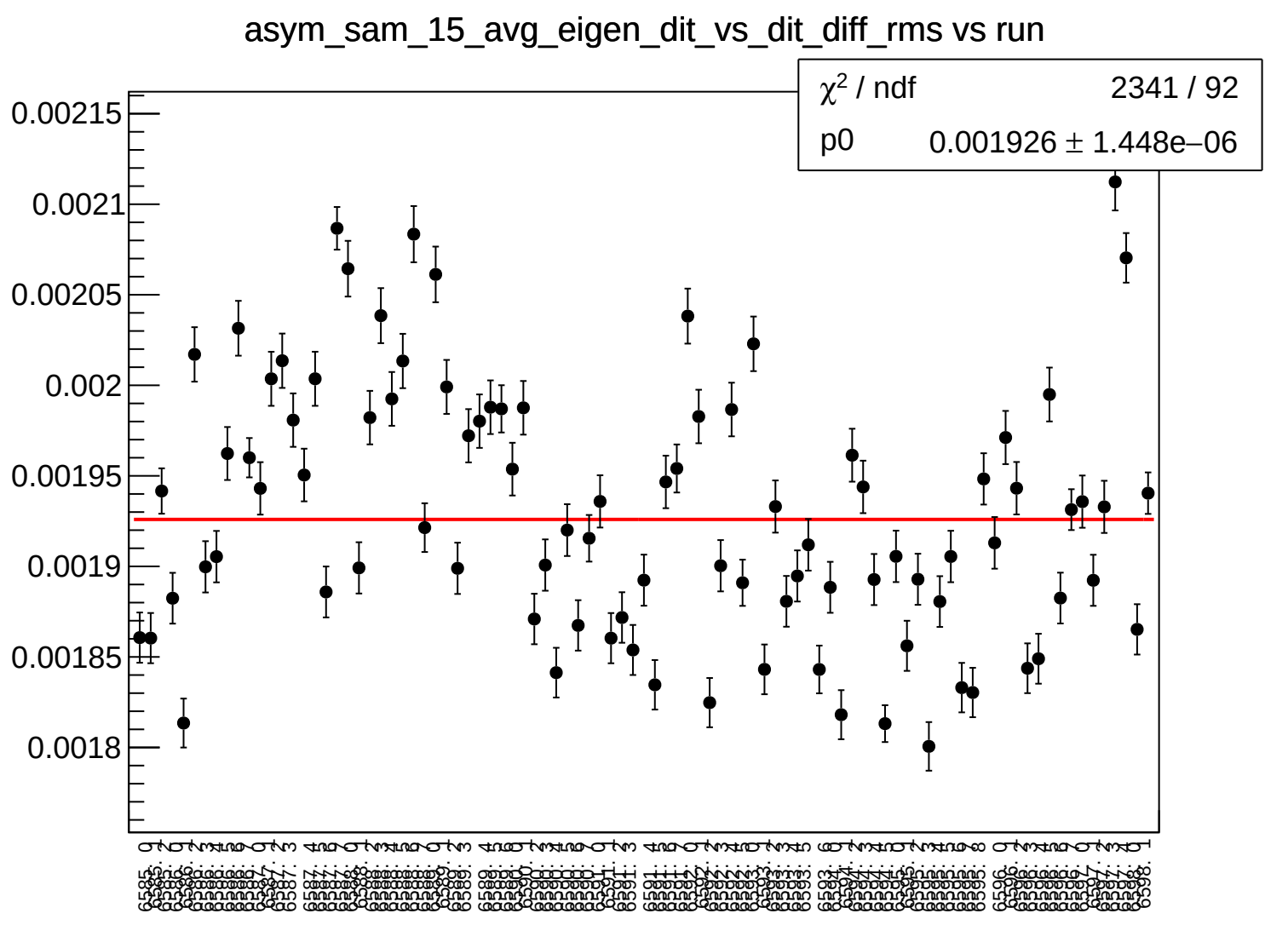

pull1D
Entries 93
Mean 0.02778
Std Dev 1.002

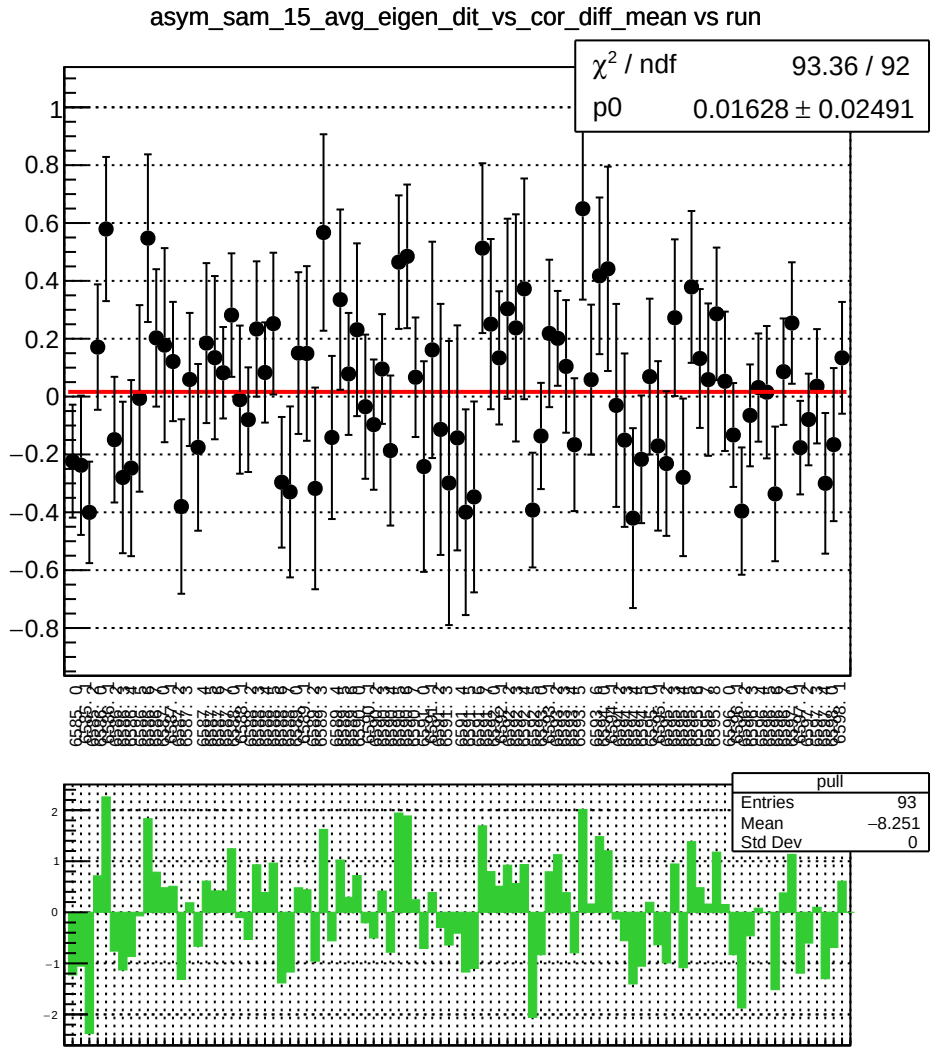

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.456e+04 / 92
p0 22.87 ± 0.01761
50
45
40
35
30
25
20
15

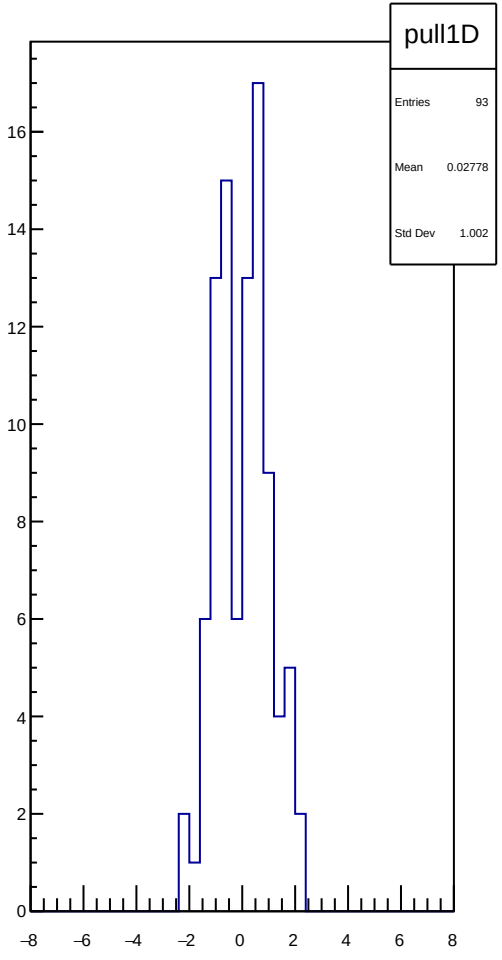

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.36 / 92
p0 0.01628 ± 0.02491
pull
Entries 93
Mean −8.253
Std Dev 0
pull1D
Entries 93
Mean 0.02778
Std Dev 1.002

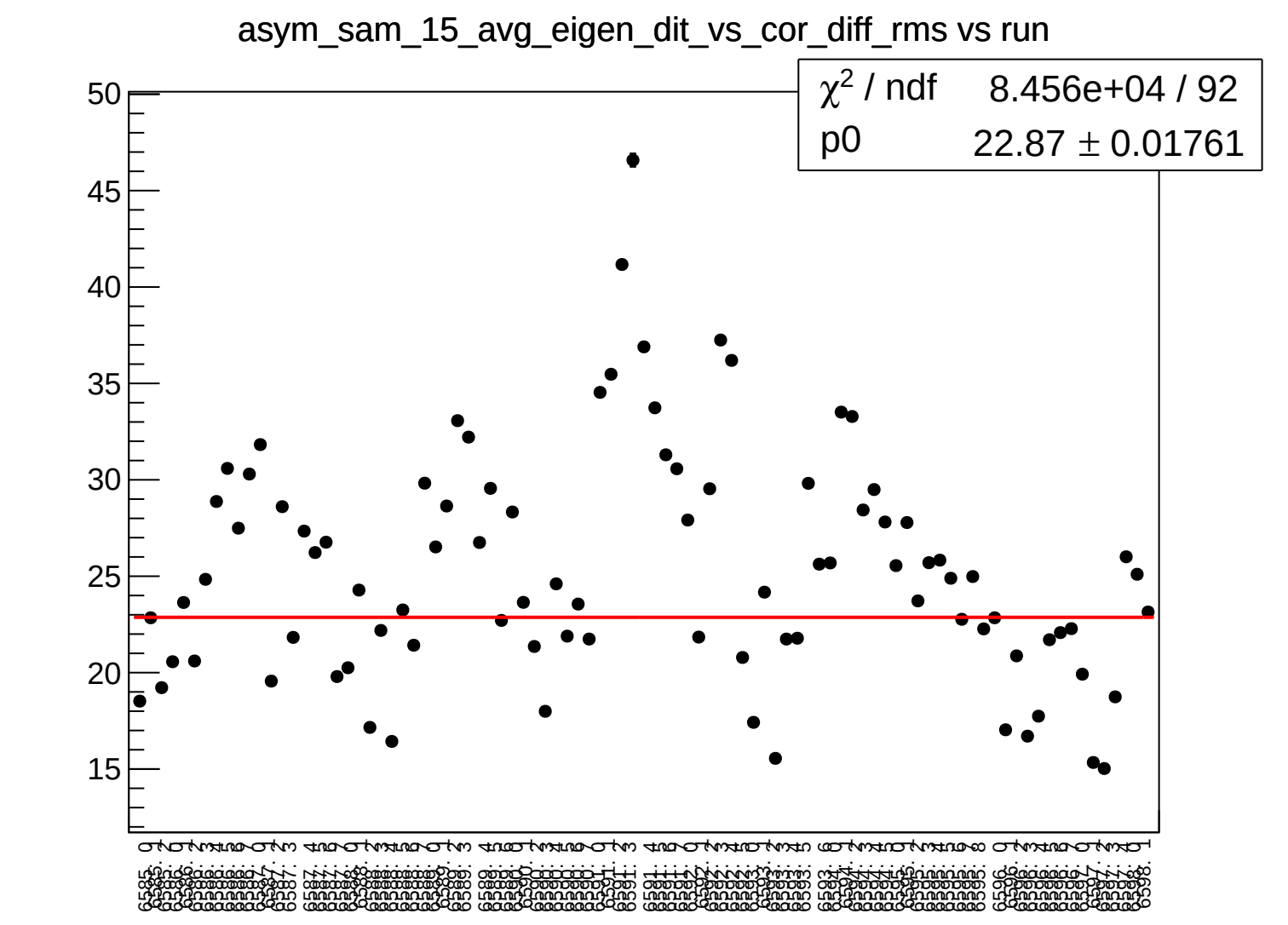

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.456e+04 / 92
p0 22.87 ± 0.01761
50
45
40
35
30
25
20
15

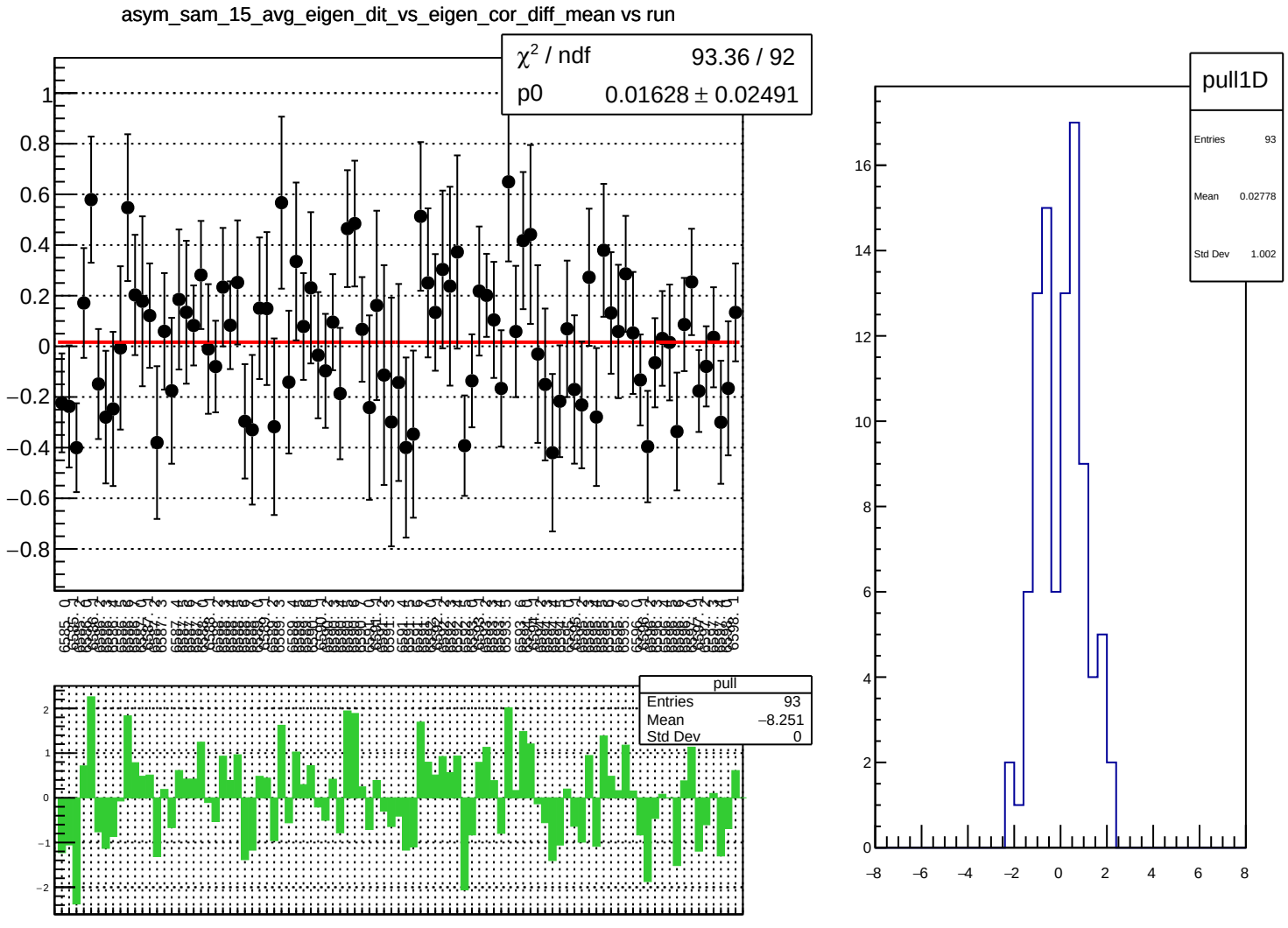

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.2 / 92
p0 9.157e−08 ± 2.048e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 93
Mean 857.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002272
Std Dev 1.128
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

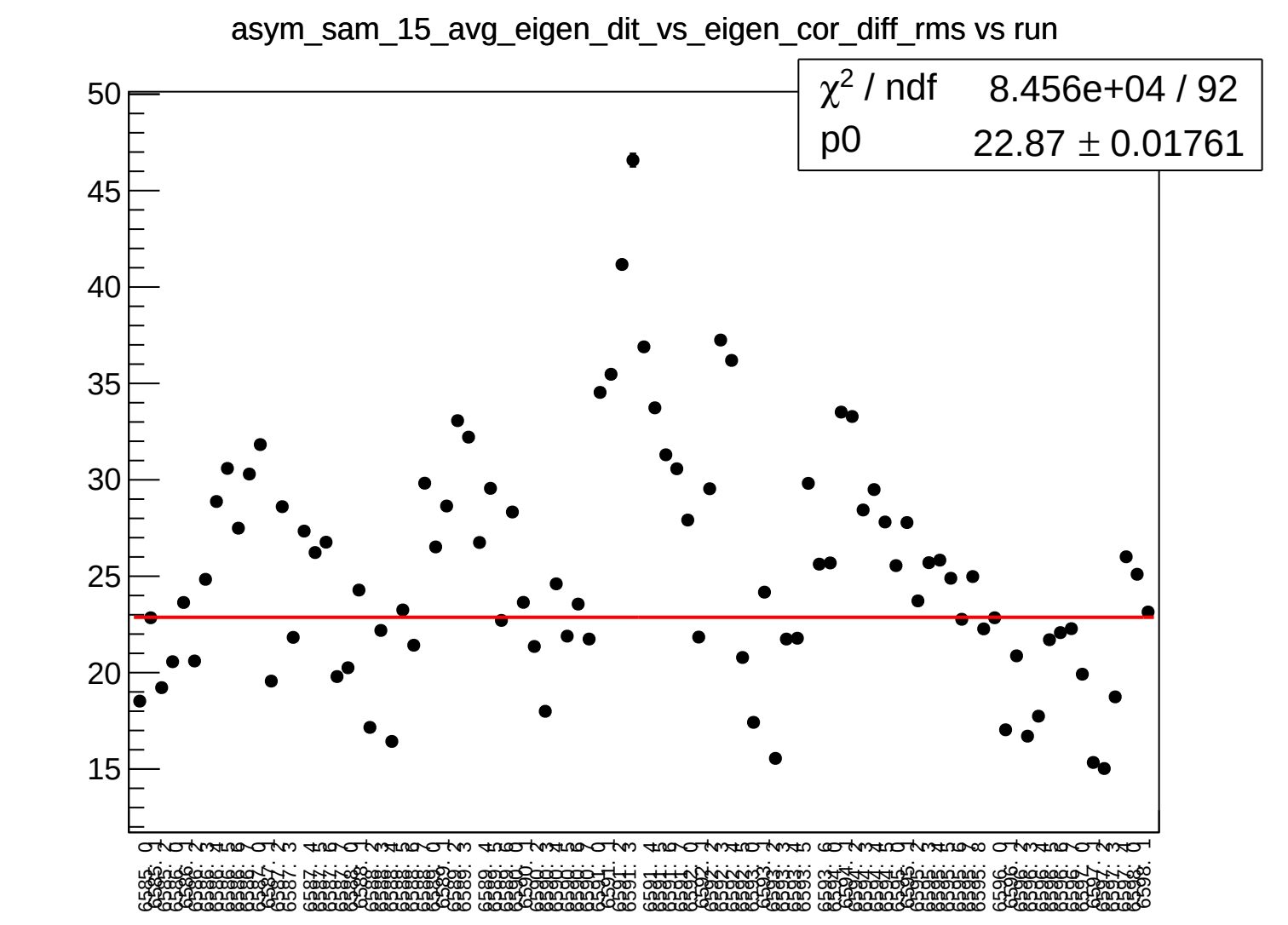

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2341 / 92
p0 0.001926 ± 1.448e−06
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018

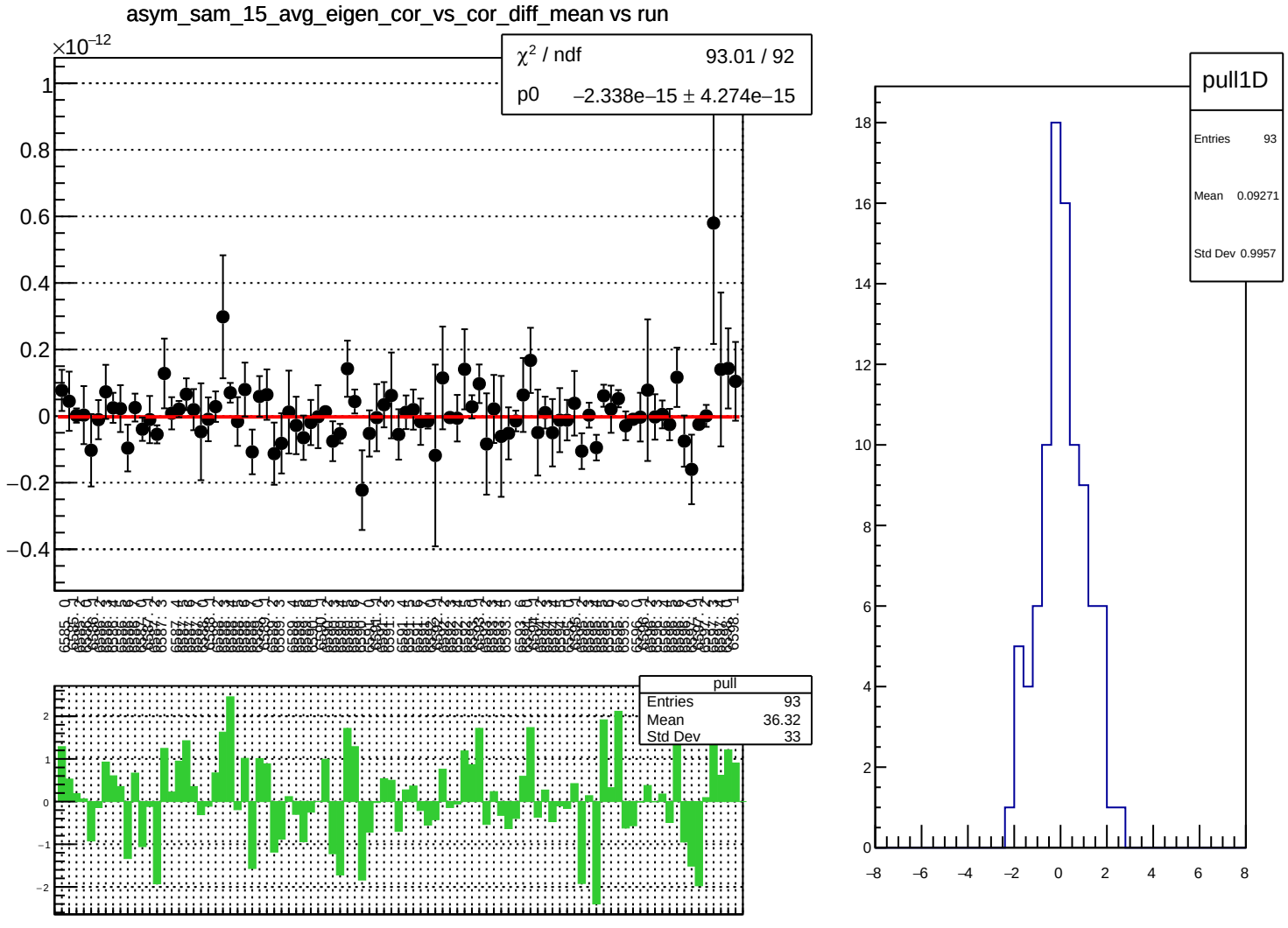

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.36 / 92
p0 0.01628 ± 0.02491
pull
Entries 93
Mean −8.251
Std Dev 0

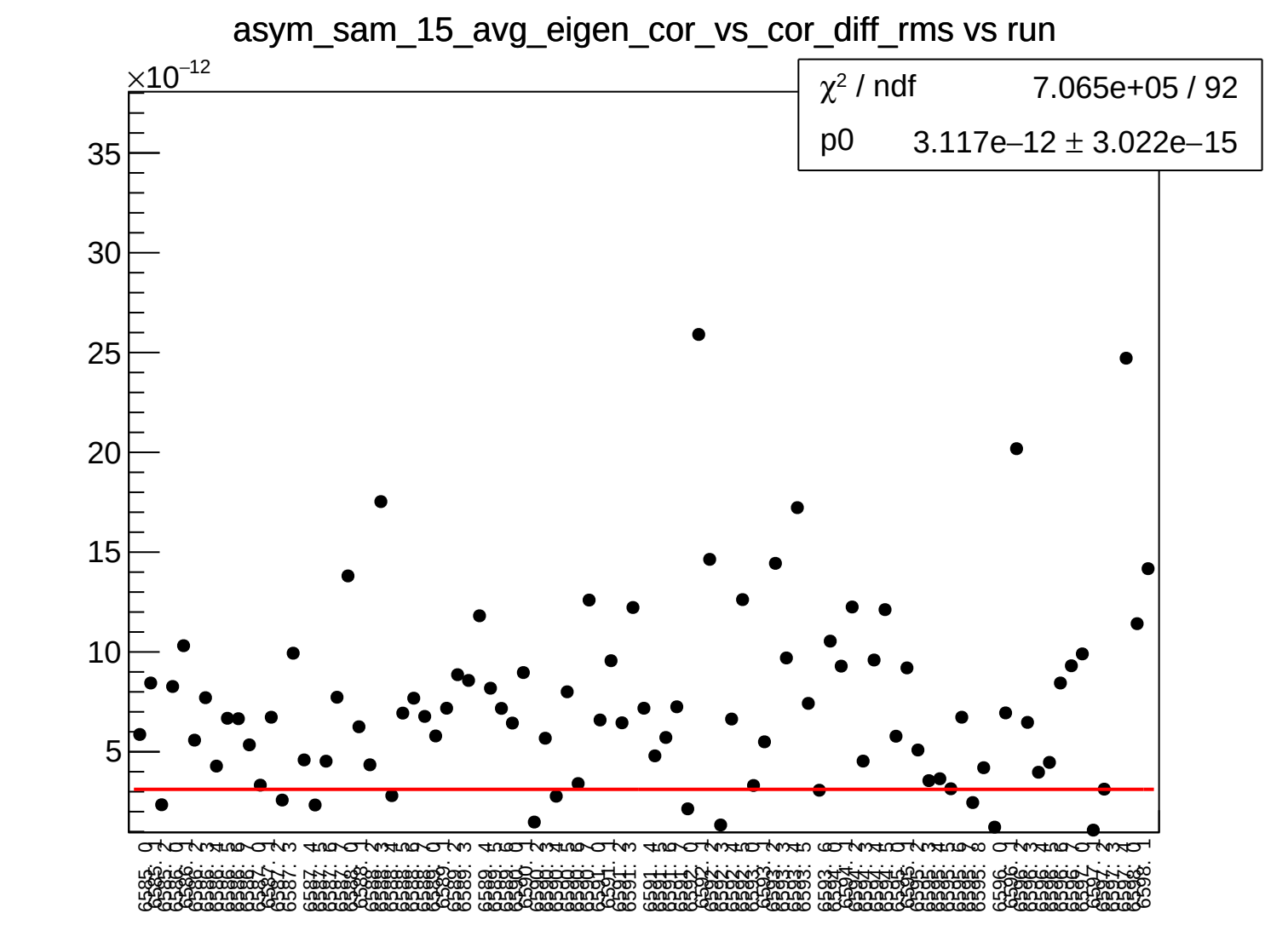

pull1D
Entries 93
Mean 0.02778
Std Dev 1.002

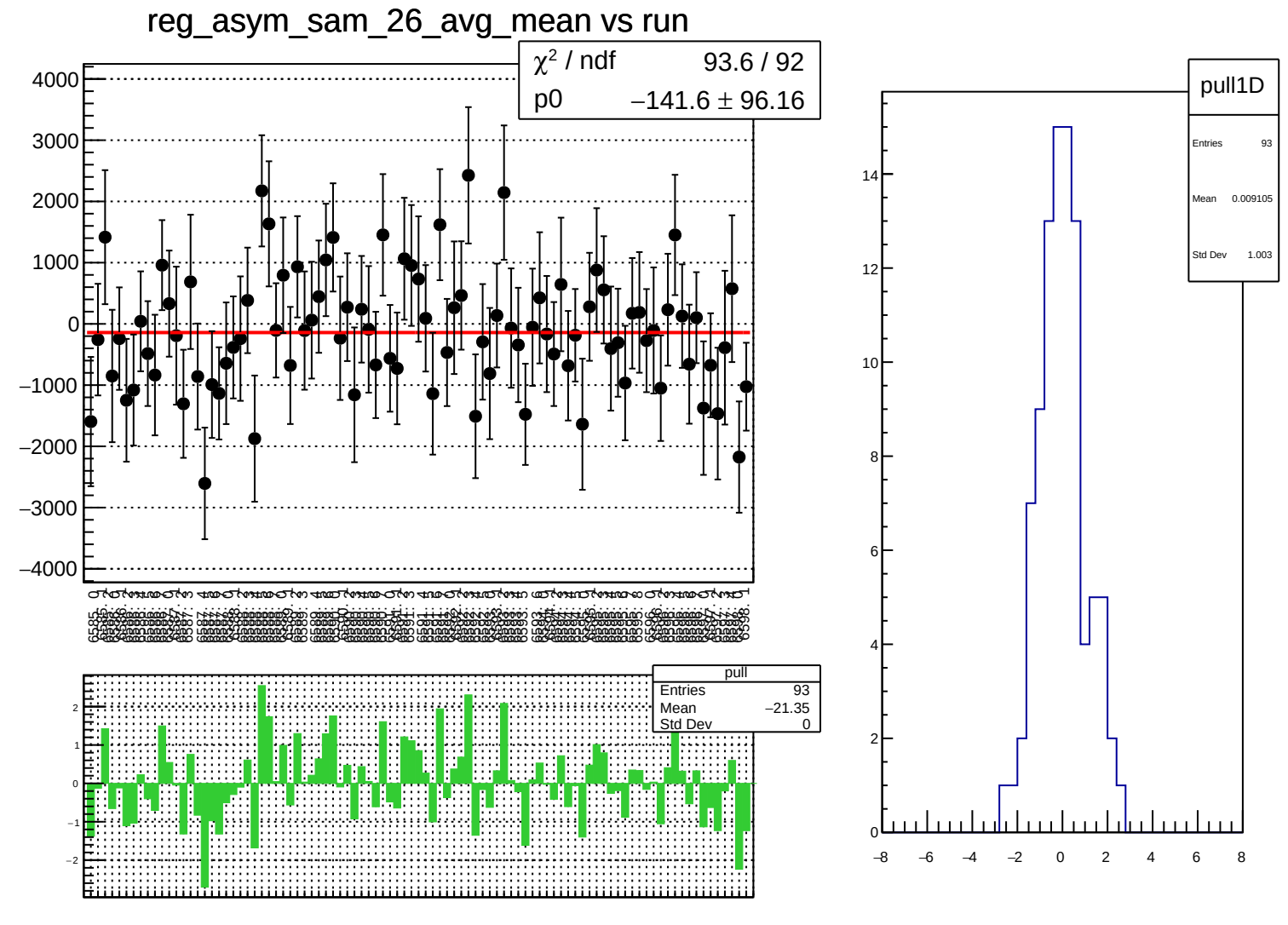

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.456e+04 / 92
p0 22.87 ± 0.01761
50
45
40
35
30
25
20
15

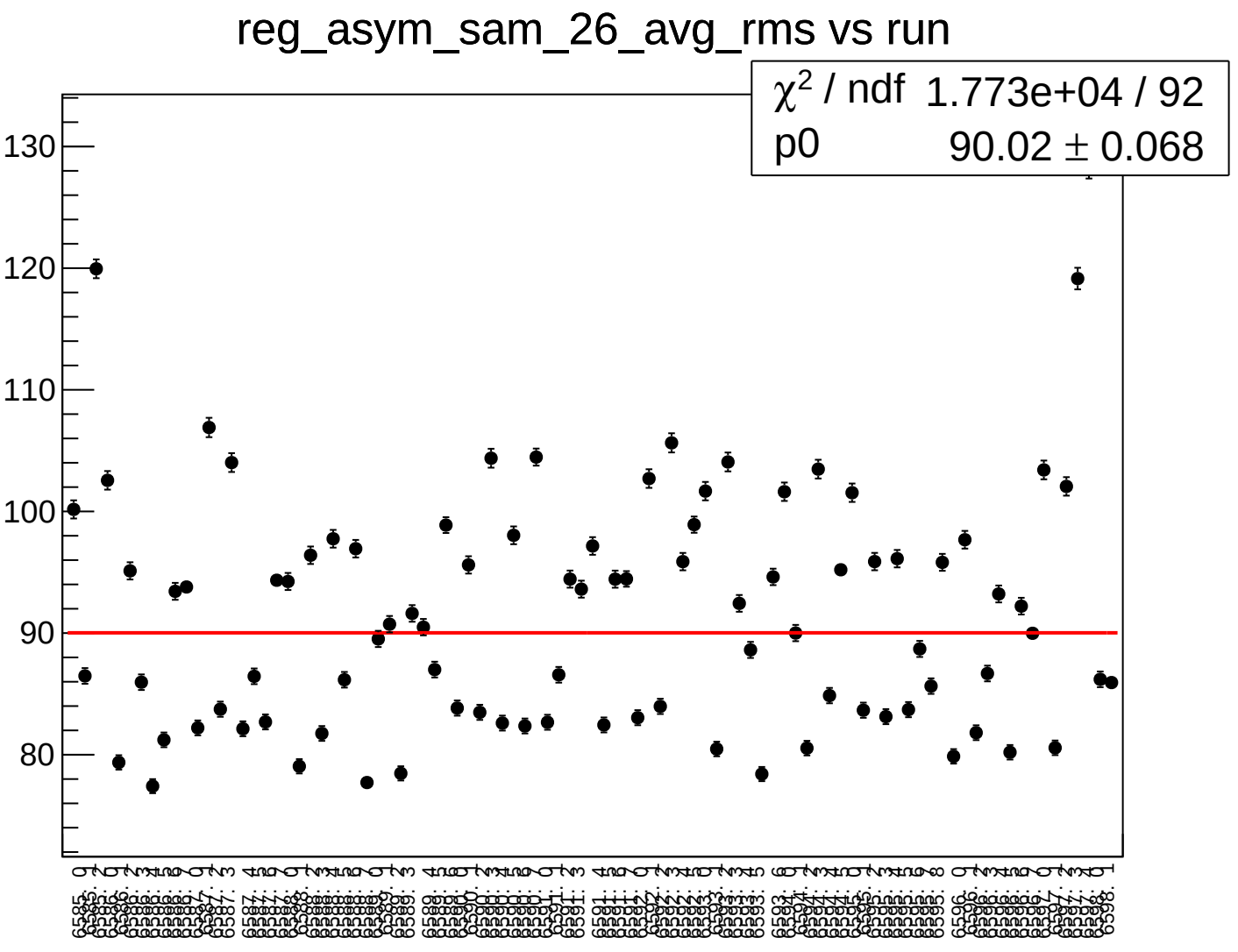

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.36 / 92
p0 0.01628 ± 0.02491
pull
Entries 93
Mean −8.251
Std Dev 0
pull1D
Entries 93
Mean 0.02778
Std Dev 1.002

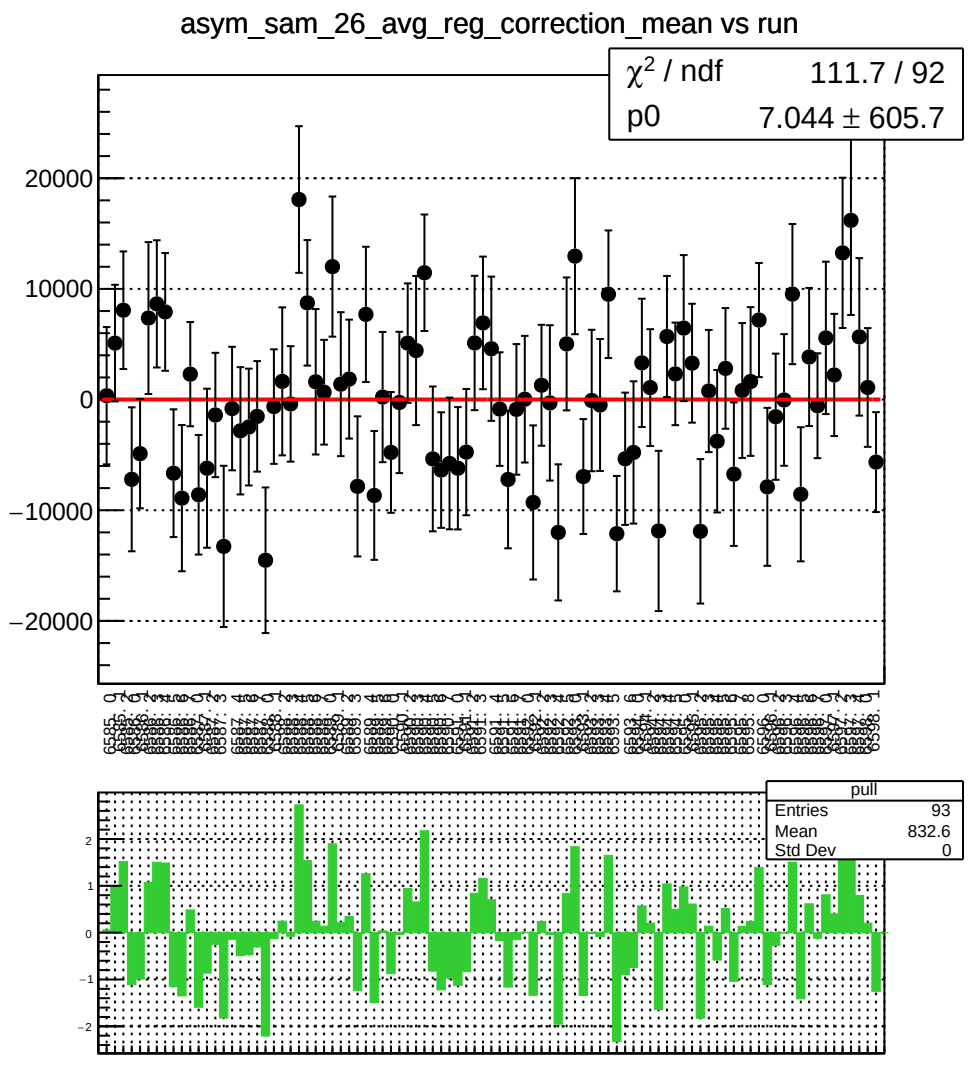

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.456e+04 / 92
p0 22.87 ± 0.01761
50
45
40
35
30
25
20
15

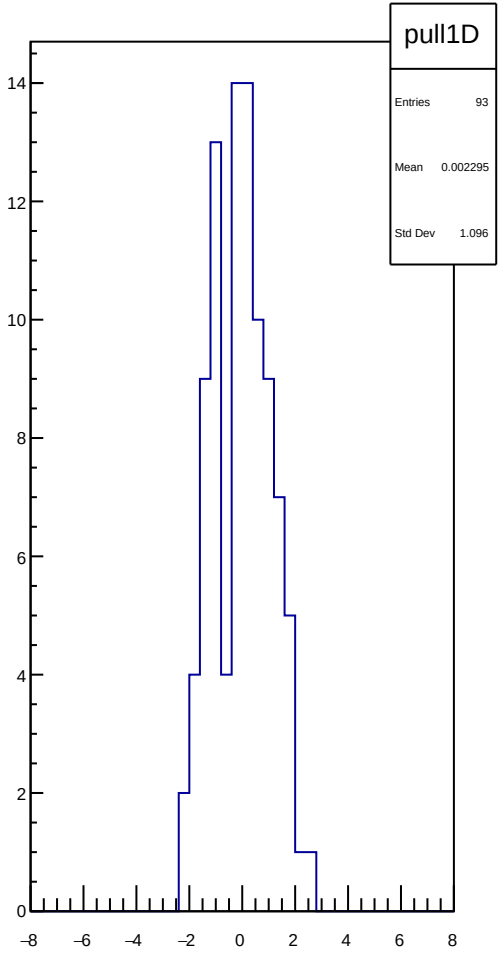

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.01 / 92
p0 −2.338e−15 ± 4.274e−15
pull
Entries 93
Mean 36.32
Std Dev 33
pull1D
Entries 93
Mean 0.09271
Std Dev 0.9957

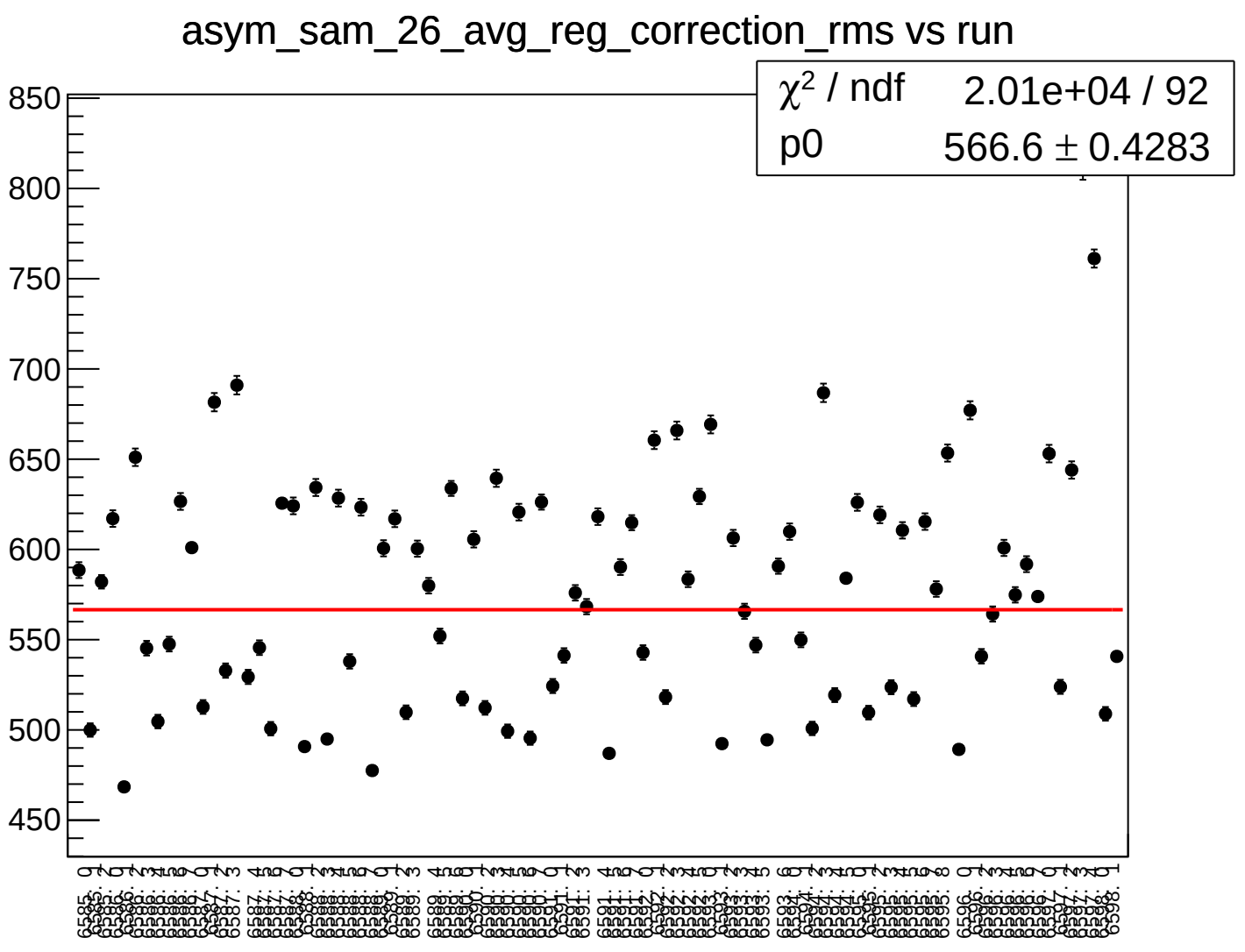

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.065e+05 / 92
p0 3.117e−12 ± 3.022e−15
35
30
25
20
15
10
5

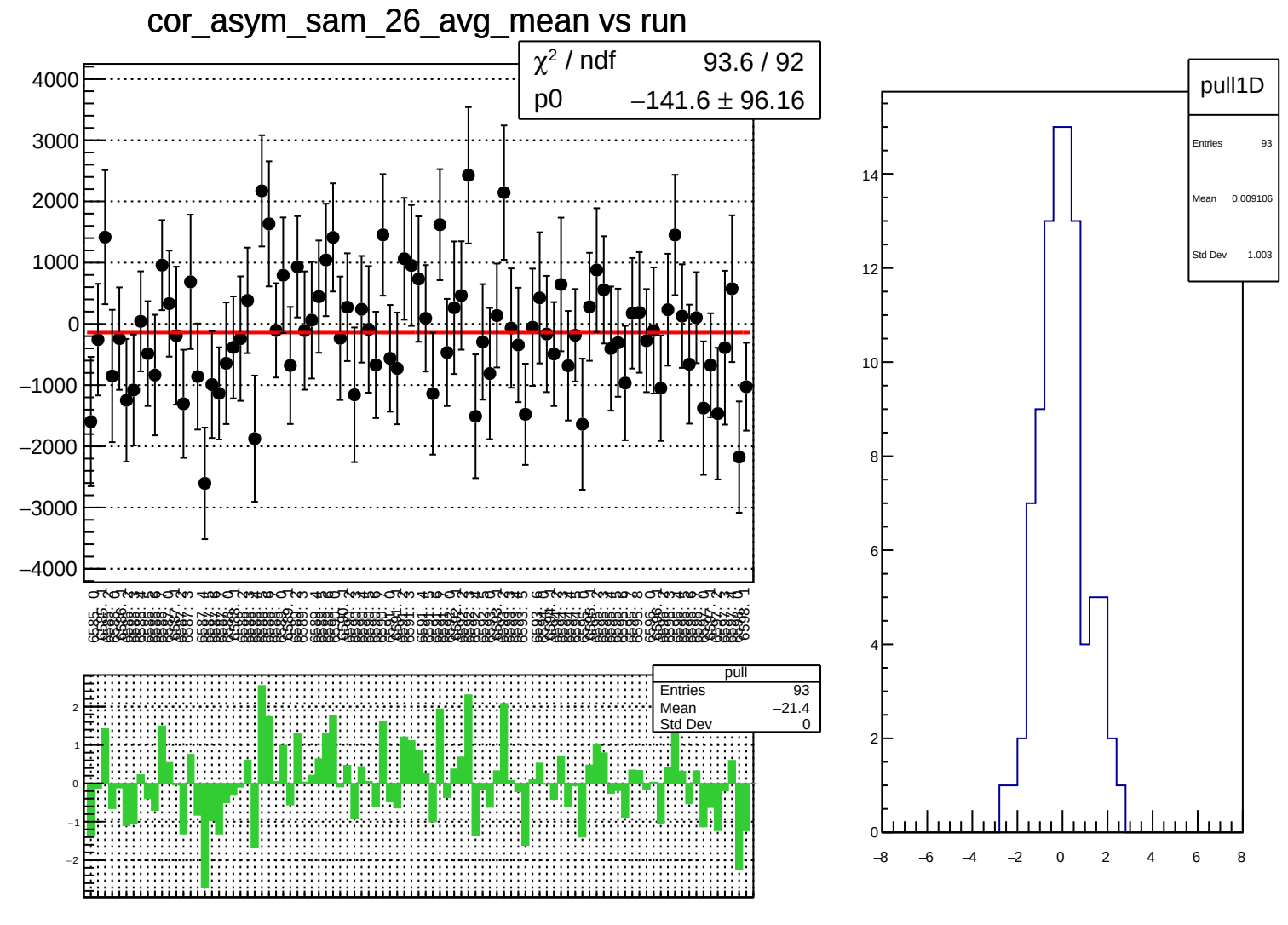

reg_asym_sam_26_avg_mean vs run
χ² / ndf 93.6 / 92
p0 −141.6 ± 96.16
pull
Entries 93
Mean −21.35
Std Dev 0
pull1D
Entries 93
Mean 0.009105
Std Dev 1.003

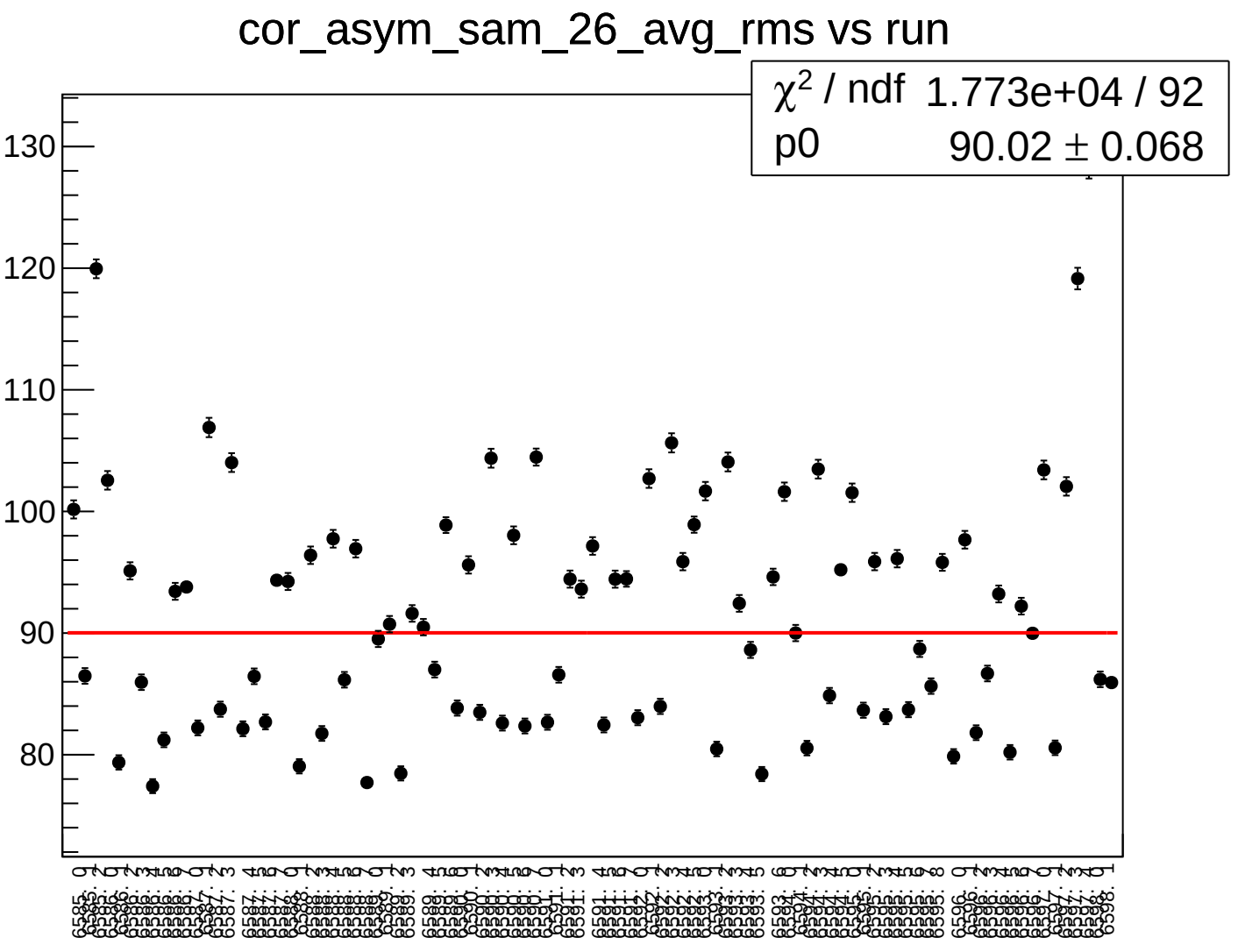

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.773e+04 / 92
p0 90.02 ± 0.068
130
120
110
100
90
80

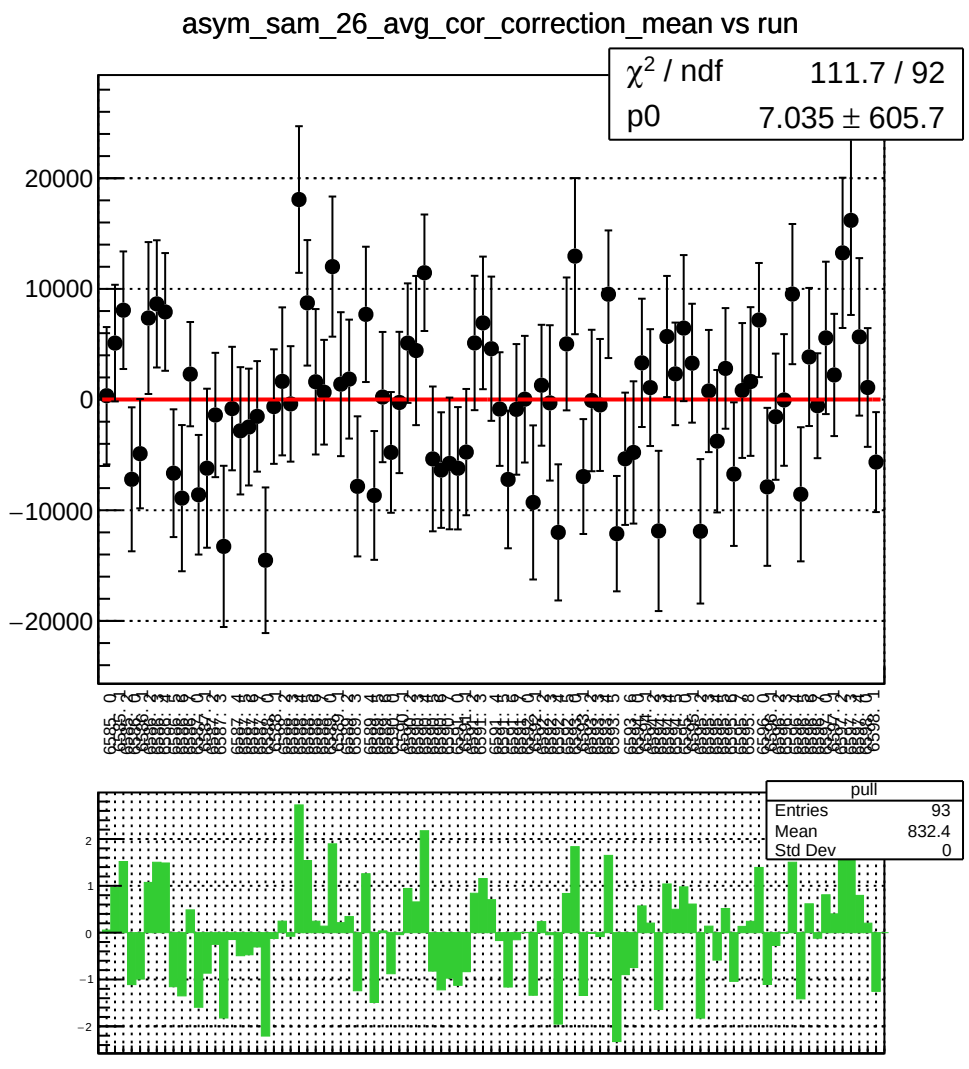

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 111.7 / 92
p0 7.044 ± 605.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 832.6
Std Dev 0
2
1
0
−1
−2

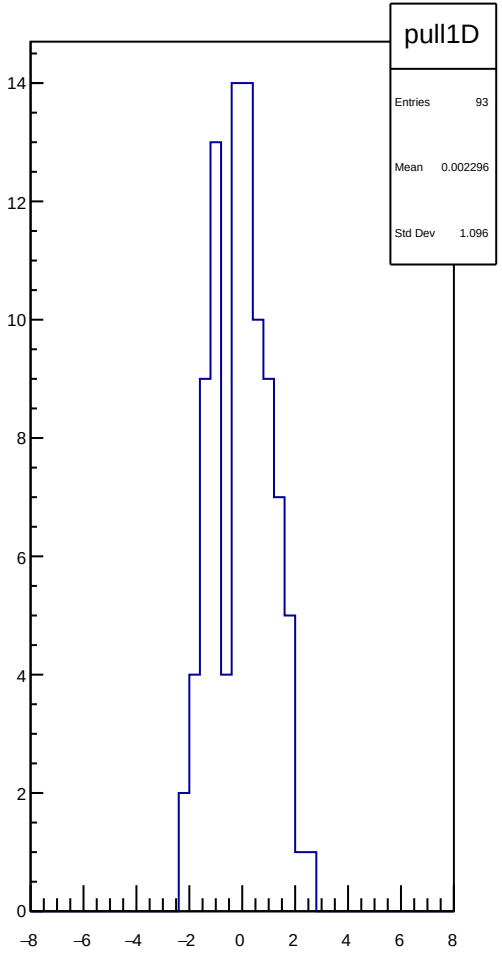

pull1D
Entries 93
Mean 0.002295
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

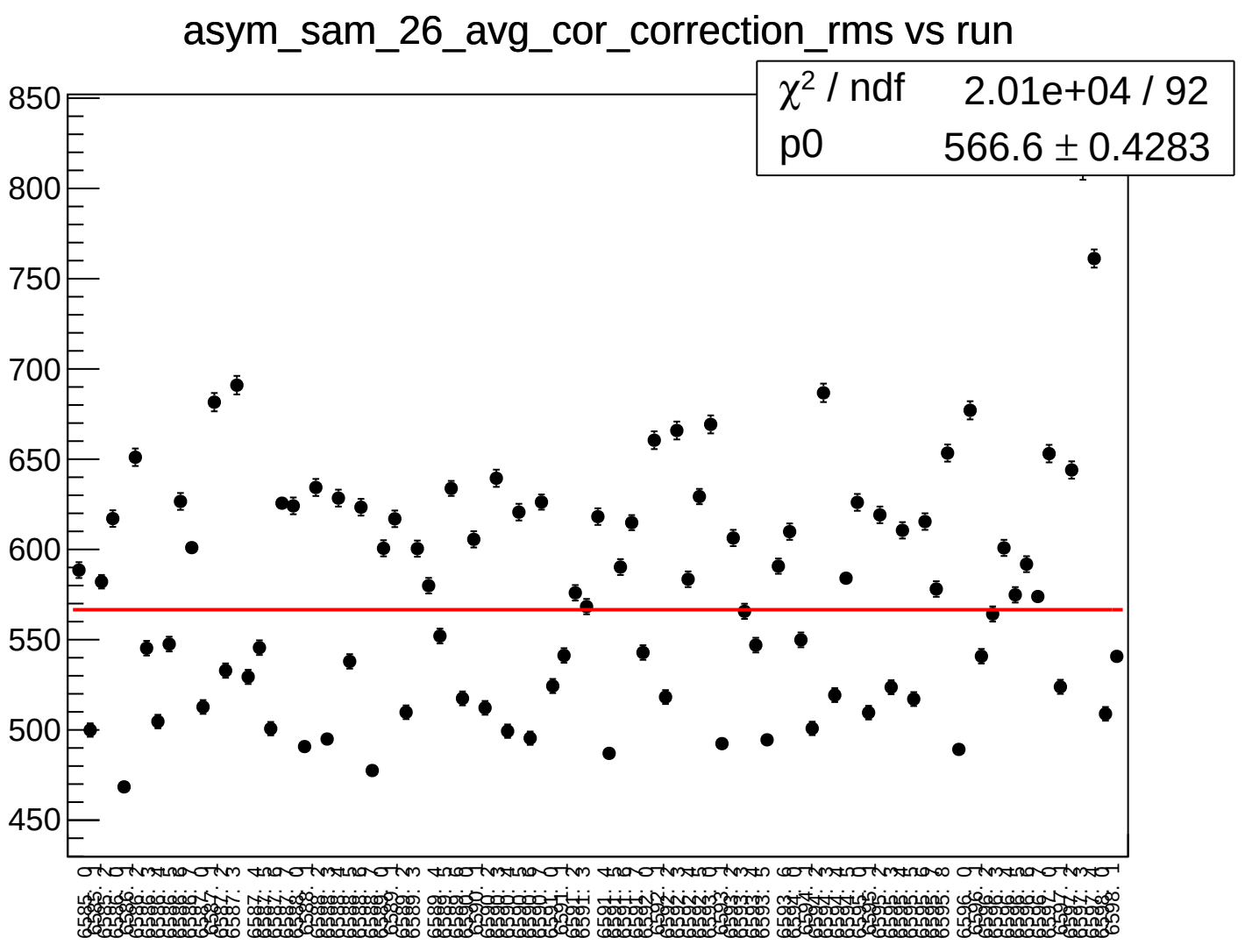

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 2.01e+04 / 92
p0 566.6 ± 0.4283
850
800
750
700
650
600
550
500
450

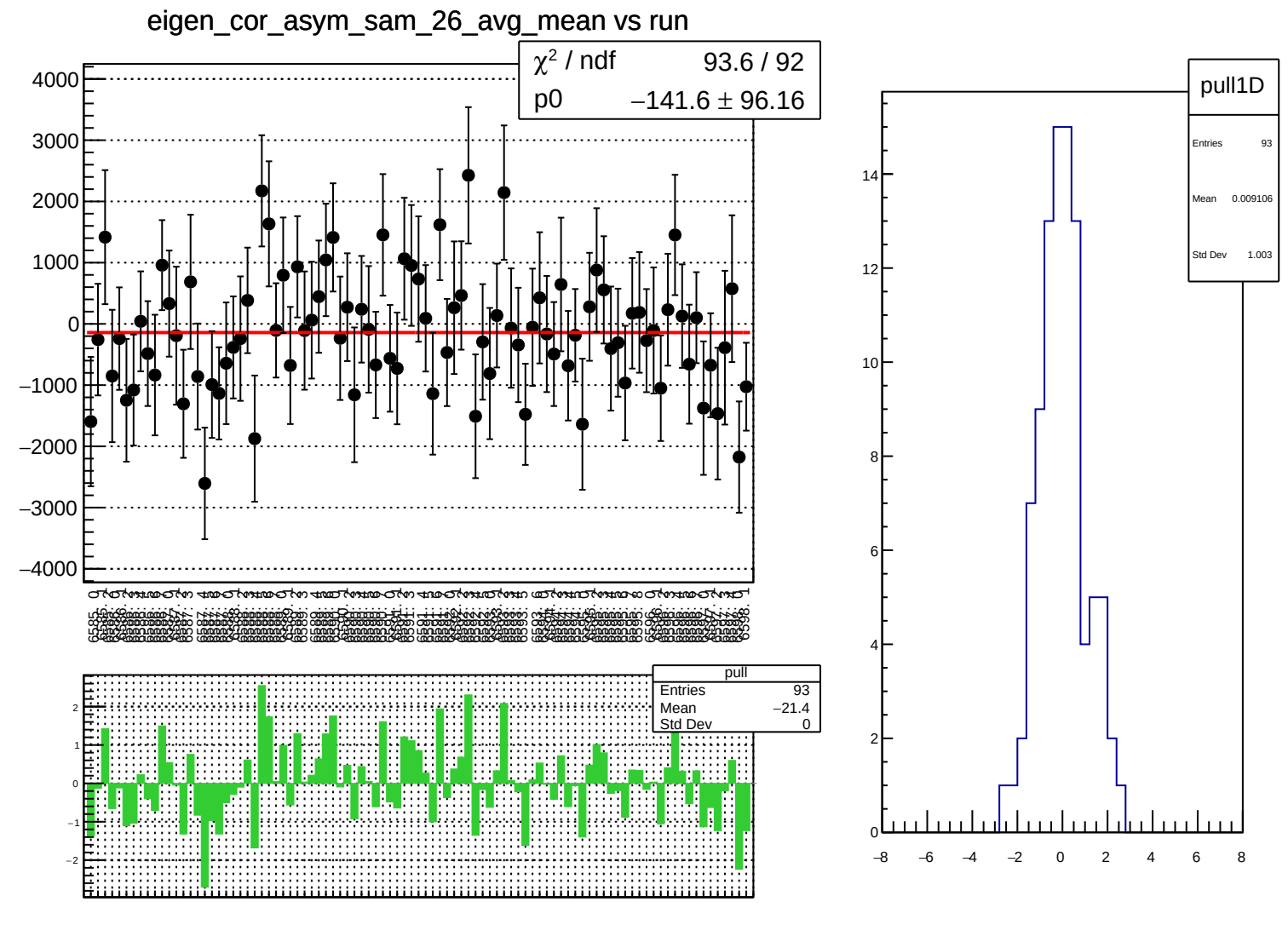

cor_asym_sam_26_avg_mean vs run
χ² / ndf 93.6 / 92
p0 −141.6 ± 96.16
pull
Entries 93
Mean −21.4
Std Dev 0
pull1D
Entries 93
Mean 0.009106
Std Dev 1.003

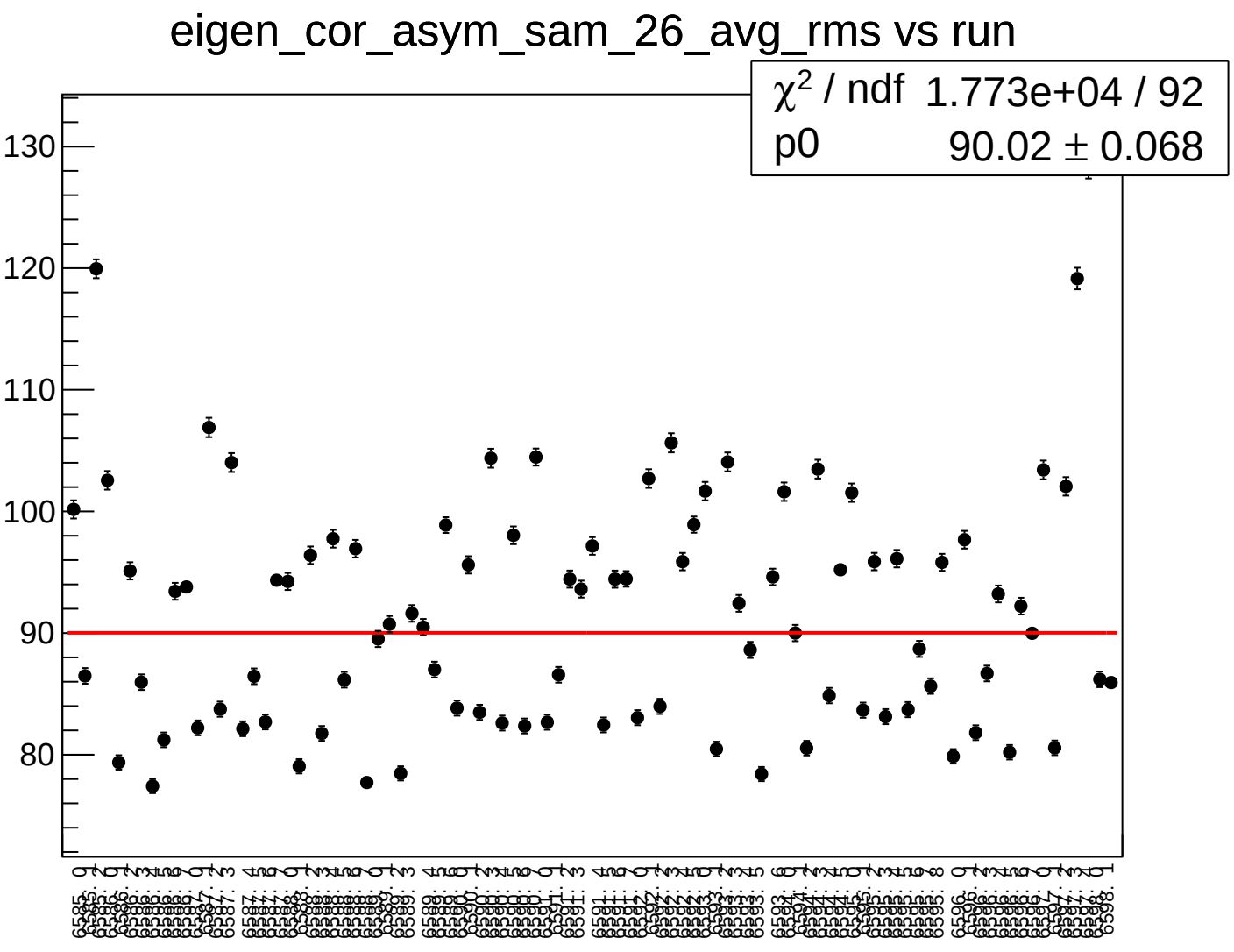

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.773e+04 / 92
p0 90.02 ± 0.068
130
120
110
100
90
80

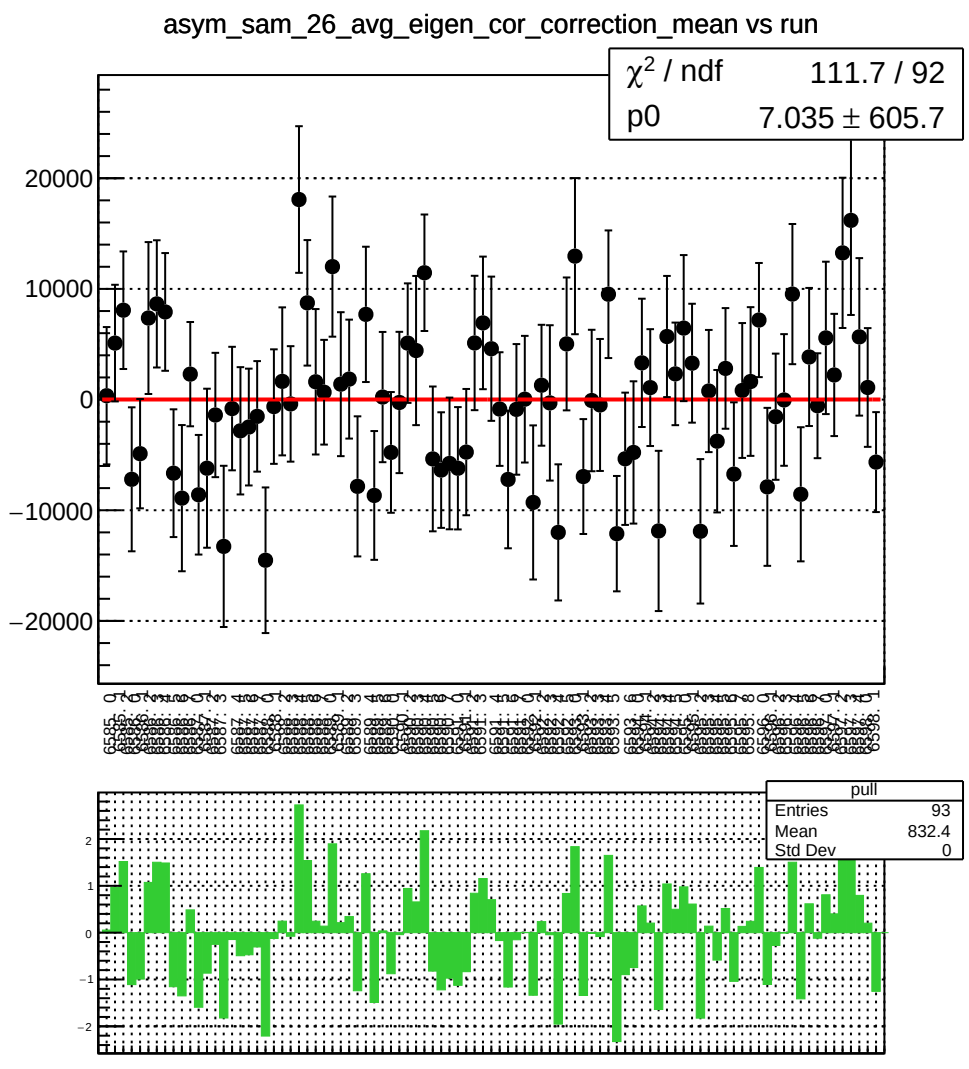

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 111.7 / 92
p0 7.035 ± 605.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 832.4
Std Dev 0
2
1
0
−1
−2

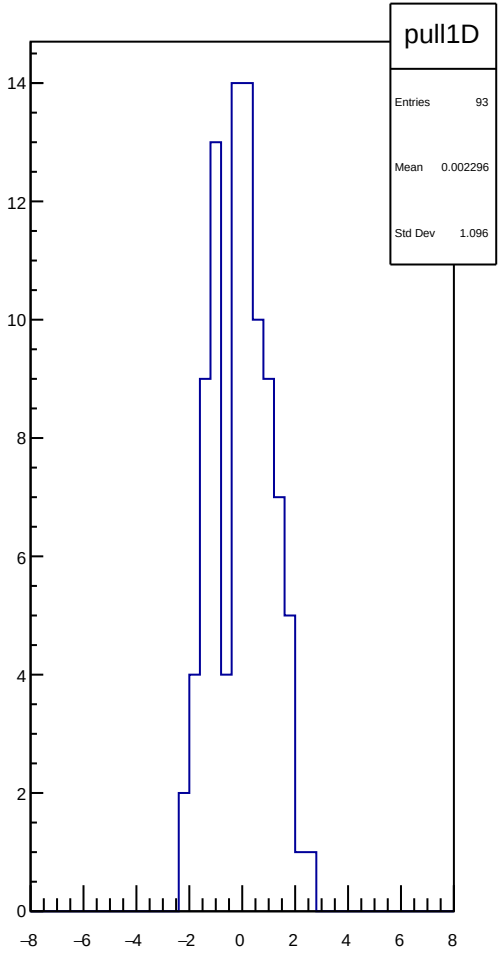

pull1D
Entries 93
Mean 0.002296
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

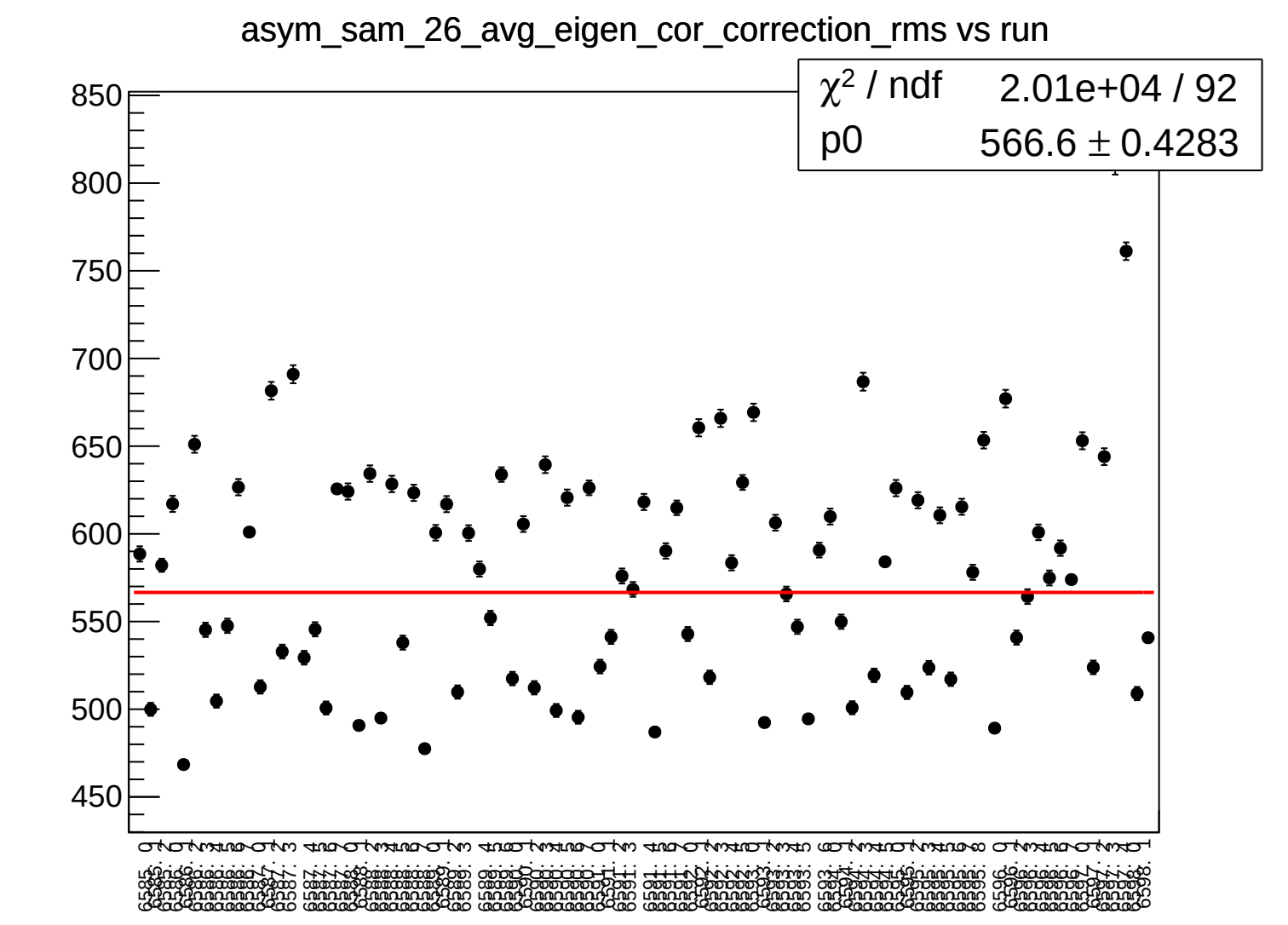

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 2.01e+04 / 92
p0 566.6 ± 0.4283
850
800
750
700
650
600
550
500
450

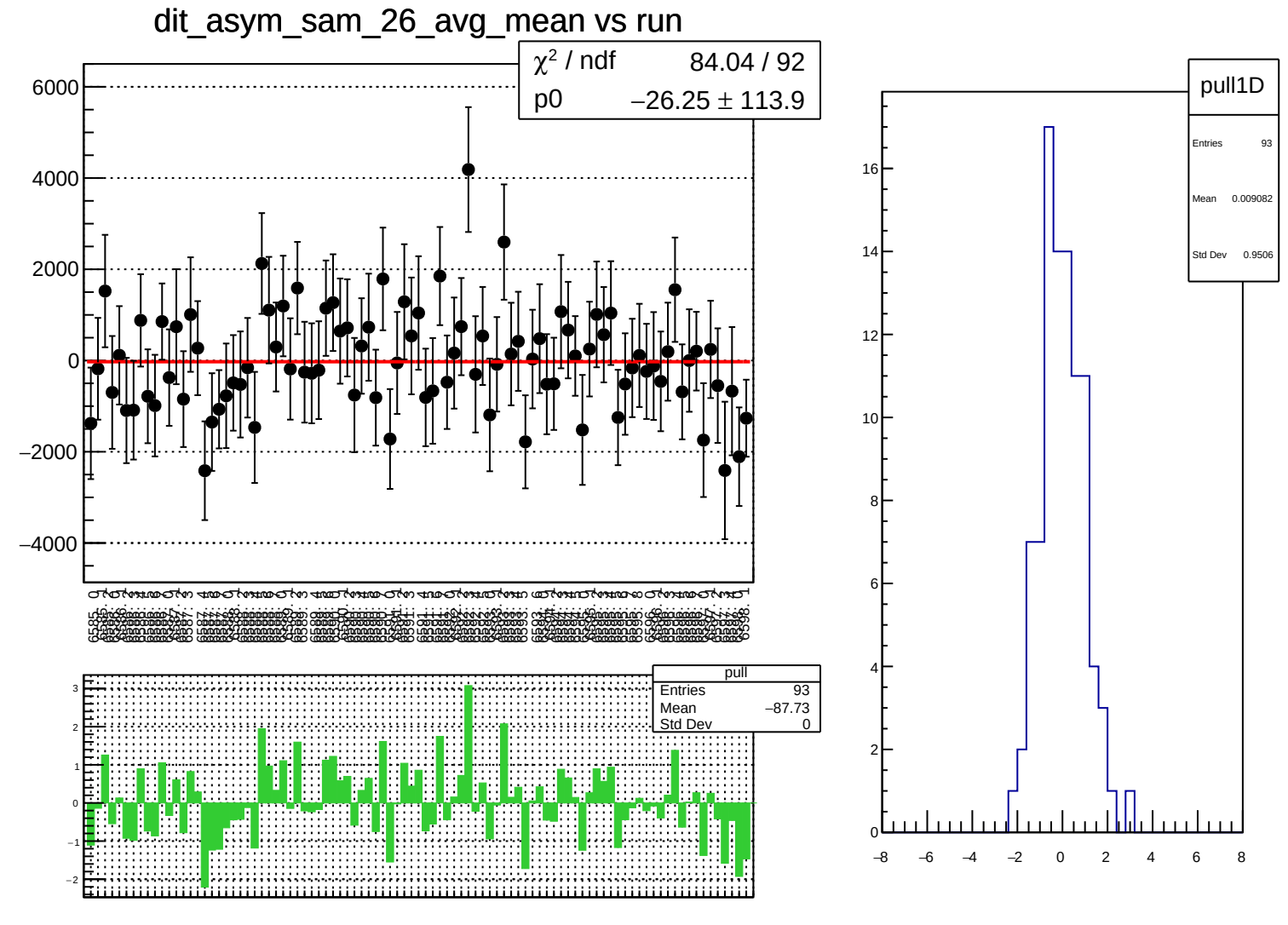

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 93.6 / 92
p0 −141.6 ± 96.16
pull
Entries 93
Mean −21.4
Std Dev 0
pull1D
Entries 93
Mean 0.009106
Std Dev 1.003

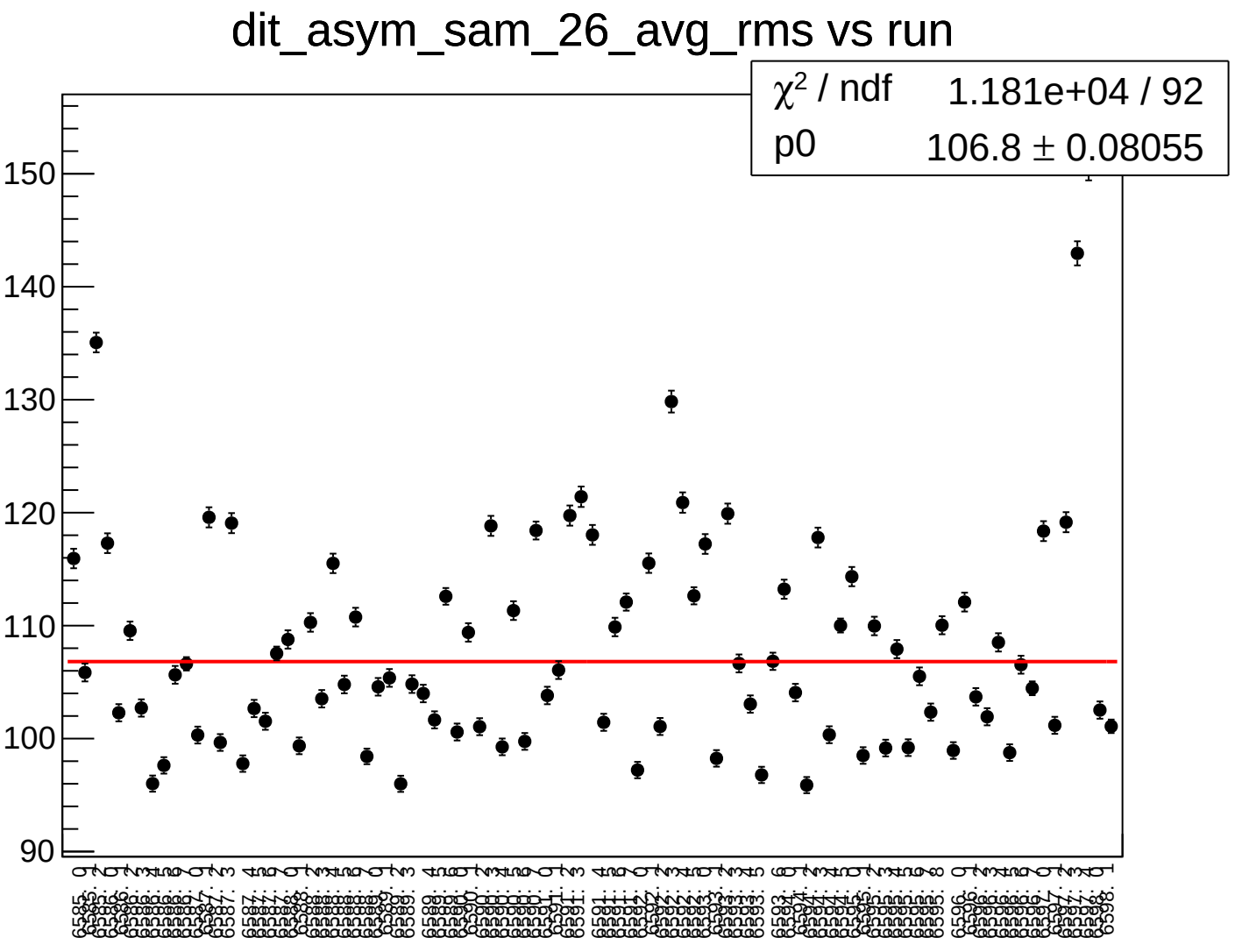

eigen_cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.773e+04 / 92
p0 90.02 ± 0.068
130
120
110
100
90
80

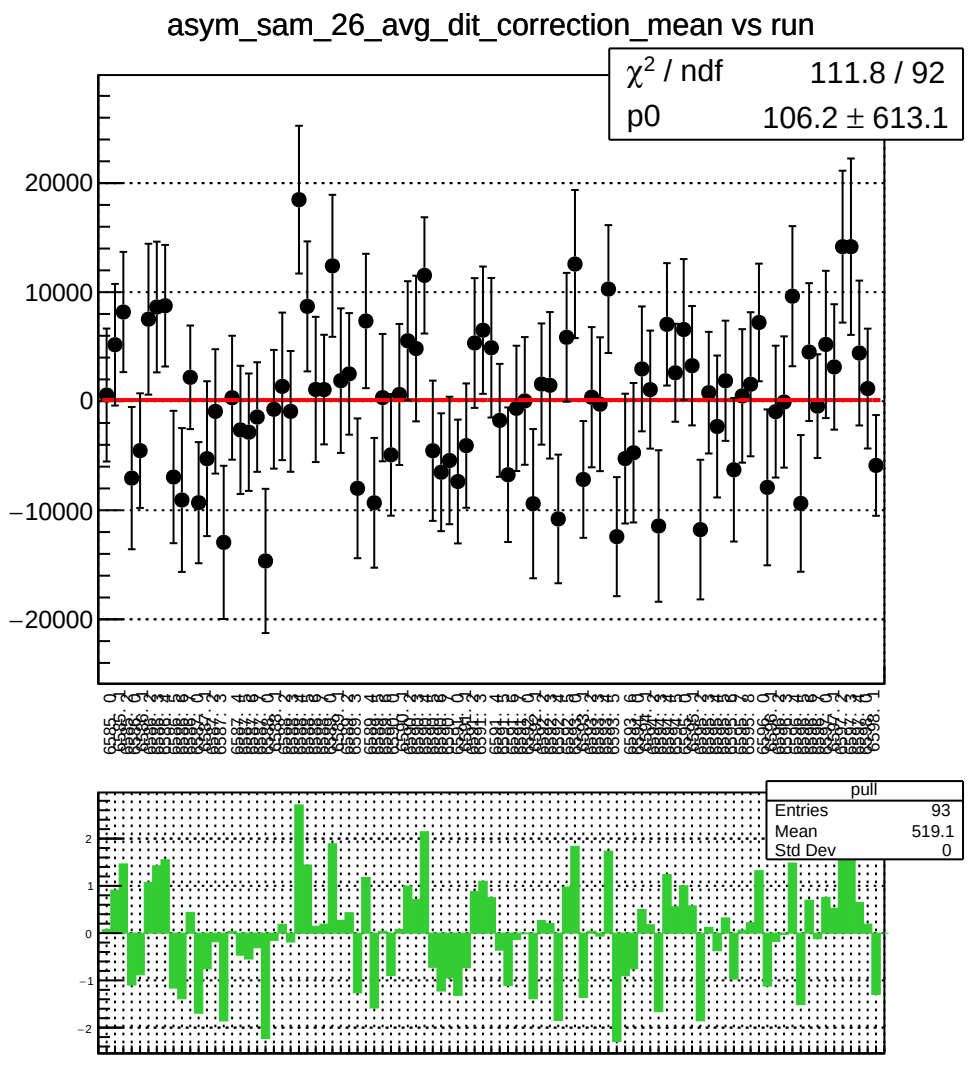

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 111.7 / 92
p0 7.035 ± 605.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 832.4
Std Dev 0
2
1
0
−1
−2

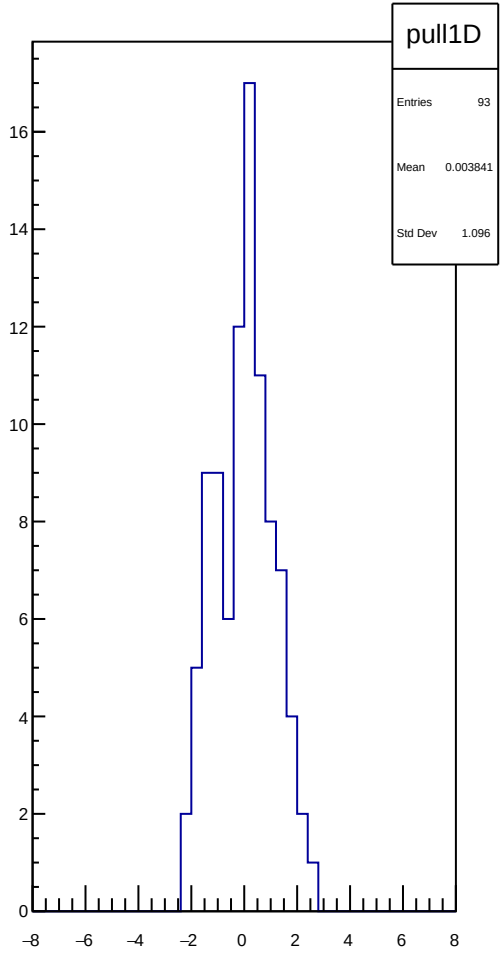

pull1D
Entries 93
Mean 0.002296
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

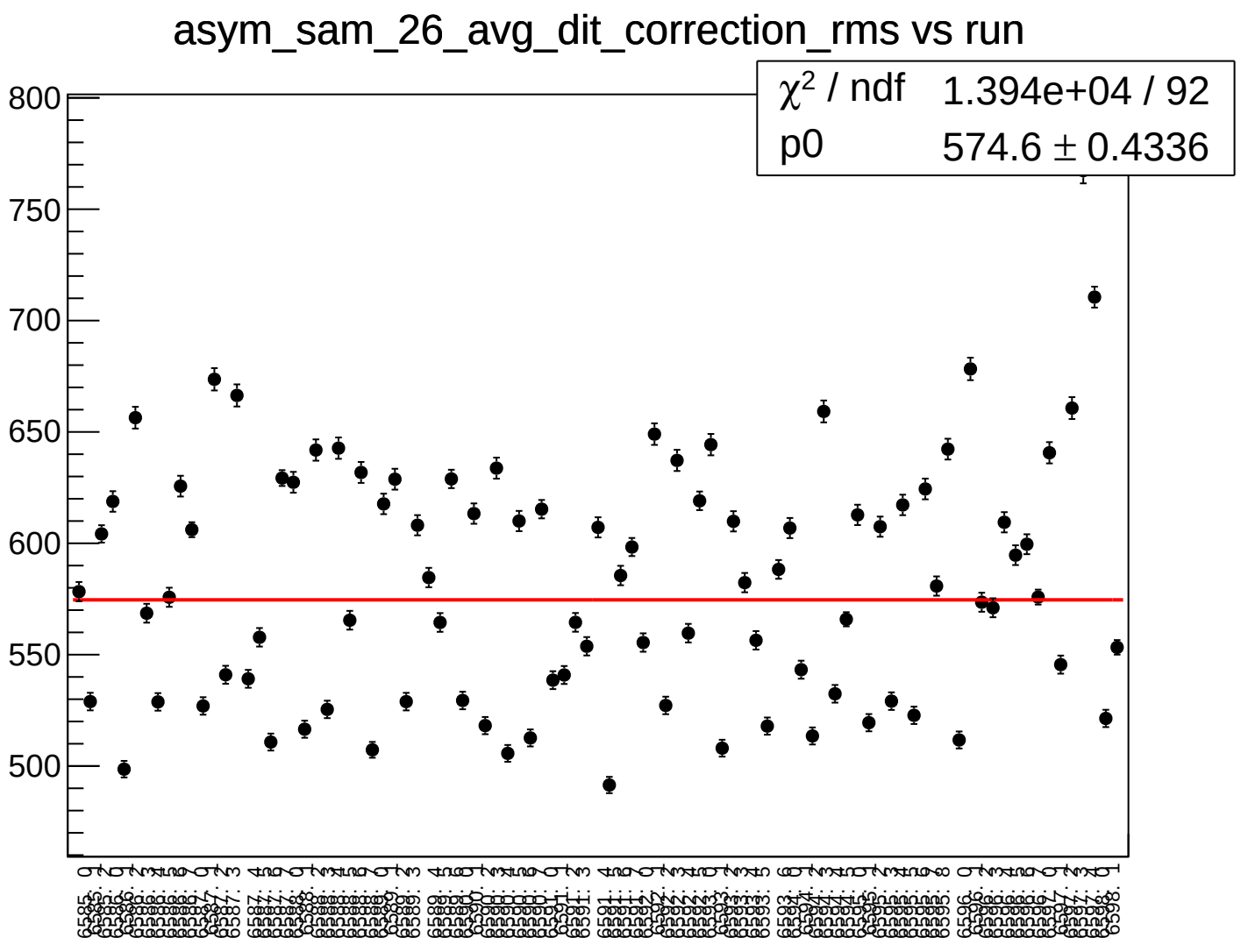

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.01e+04 / 92
p0 566.6 ± 0.4283
850
800
750
700
650
600
550
500
450

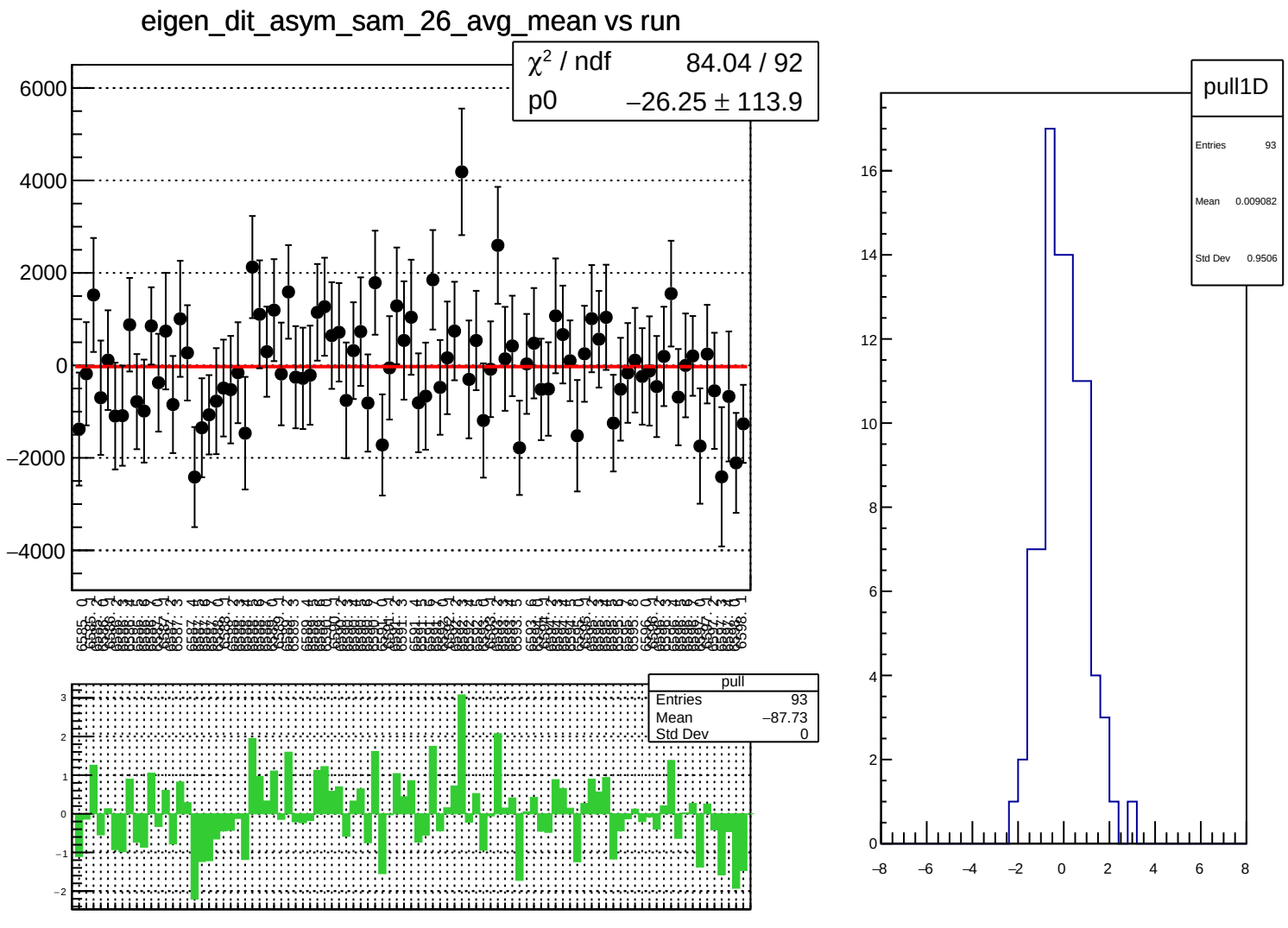

dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.04 / 92
p0 −26.25 ± 113.9
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −87.73
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.009082
Std Dev 0.9506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

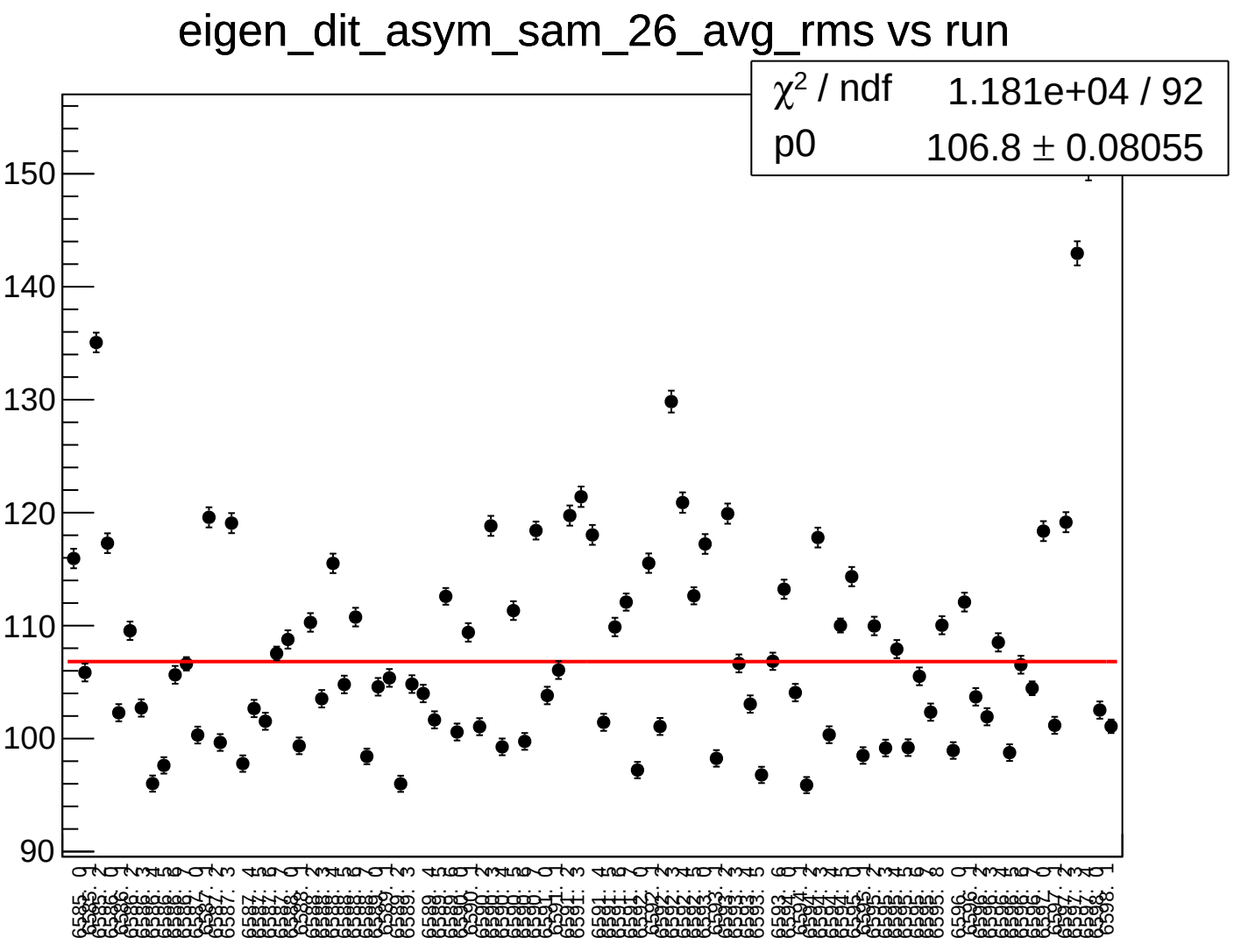

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.181e+04 / 92
p0 106.8 ± 0.08055
150
140
130
120
110
100
90

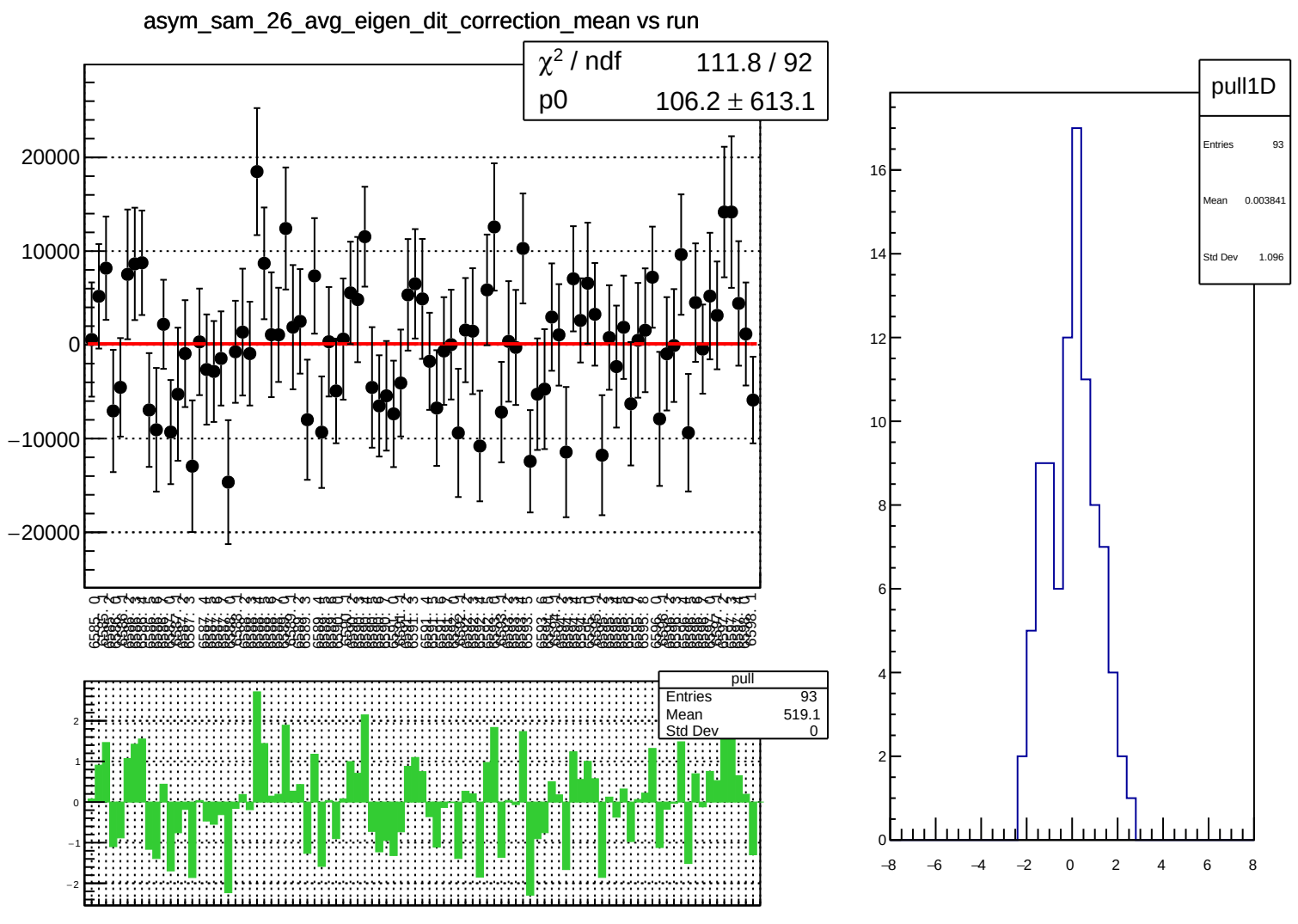

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 111.8 / 92
p0 106.2 ± 613.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 519.1
Std Dev 0
2
1
0
−1
−2

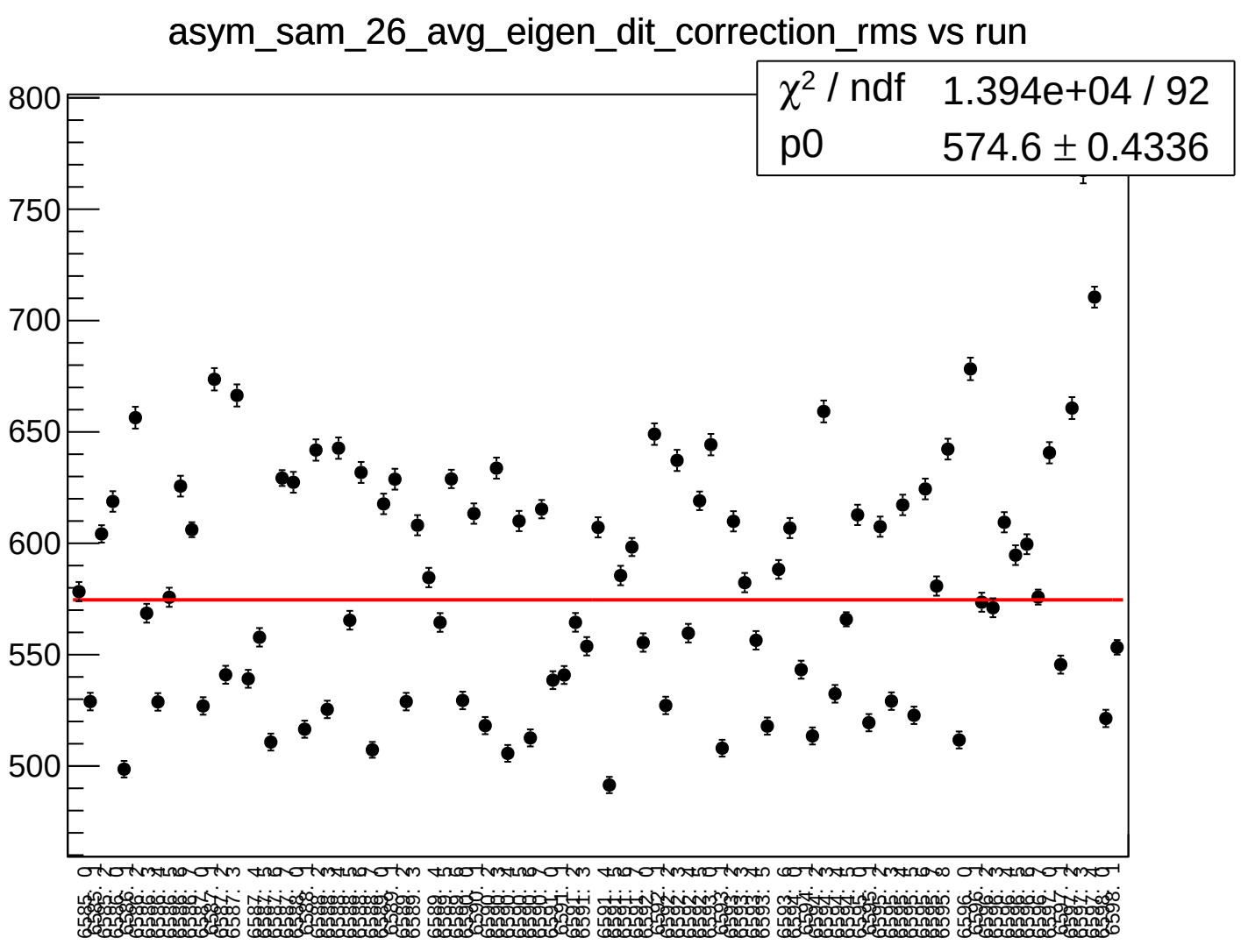

pull1D
Entries 93
Mean 0.003841
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

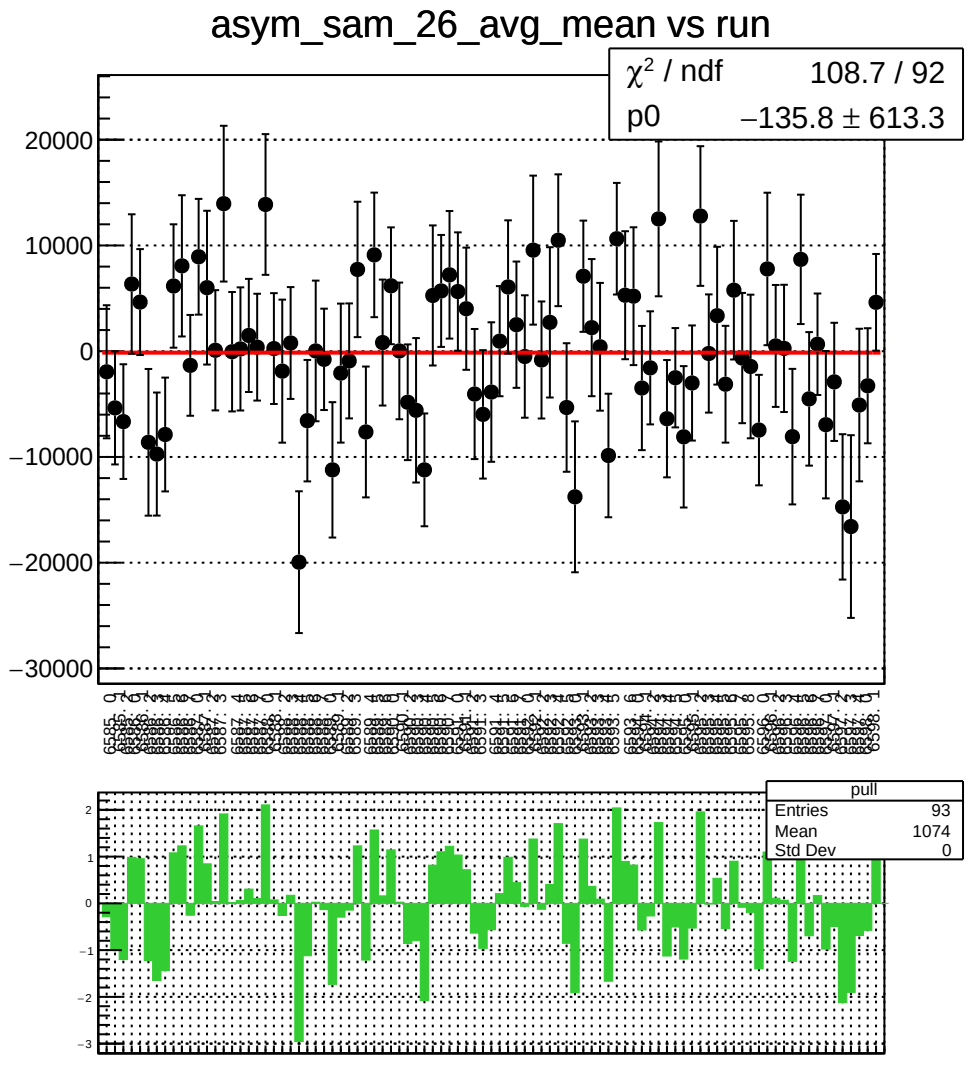

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.394e+04 / 92
p0 574.6 ± 0.4336
800
750
700
650
600
550
500

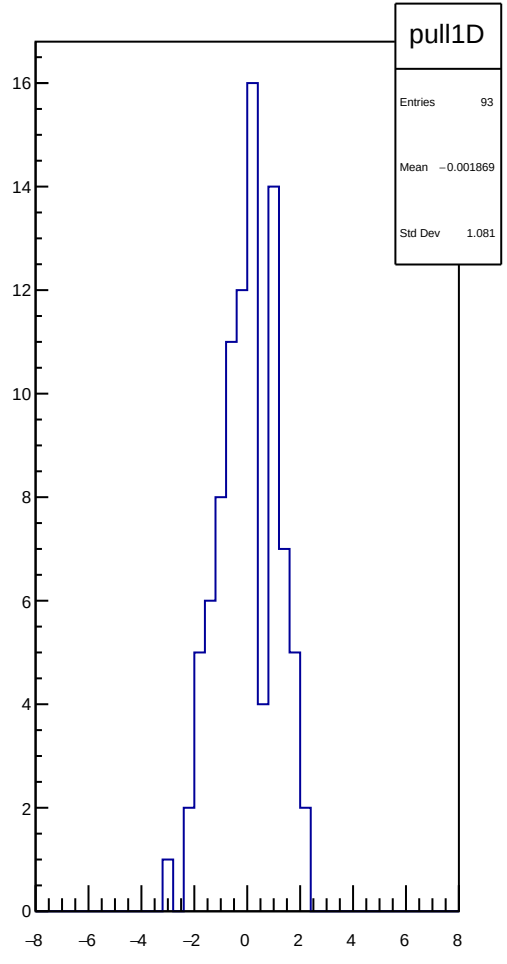

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.04 / 92
p0 −26.25 ± 113.9
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −87.73
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.009082
Std Dev 0.9506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

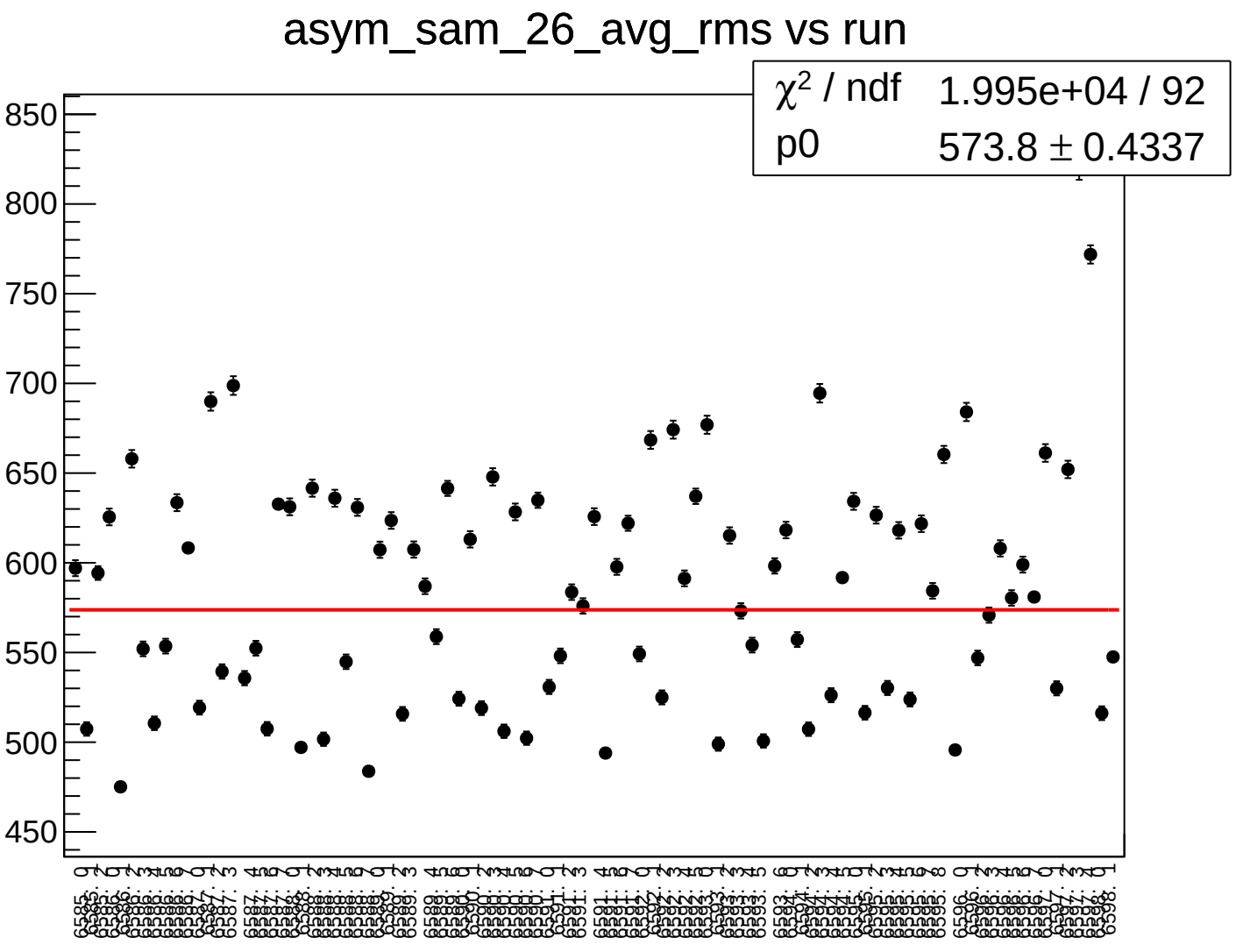

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.181e+04 / 92
p0 106.8 ± 0.08055
150
140
130
120
110
100
90

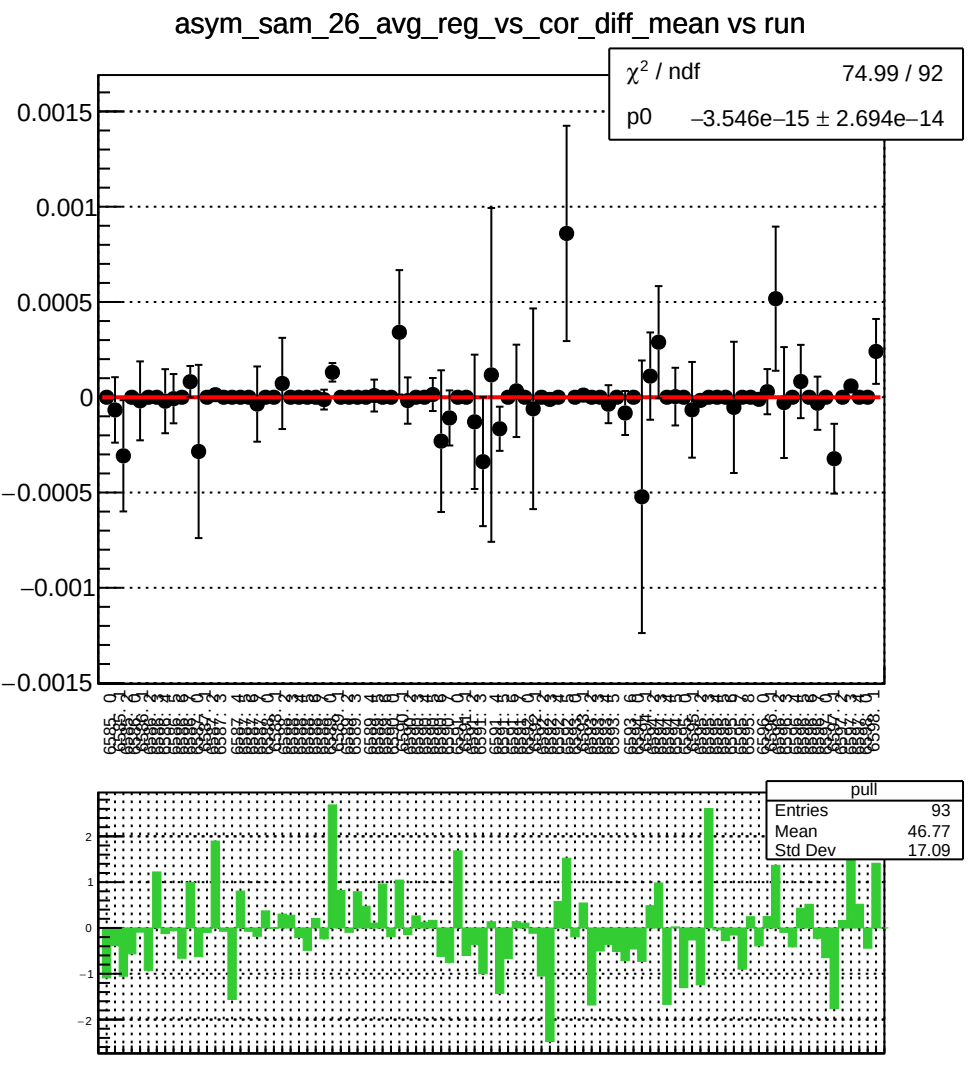

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 111.8 / 92
p0 106.2 ± 613.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 519.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003841
Std Dev 1.096
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

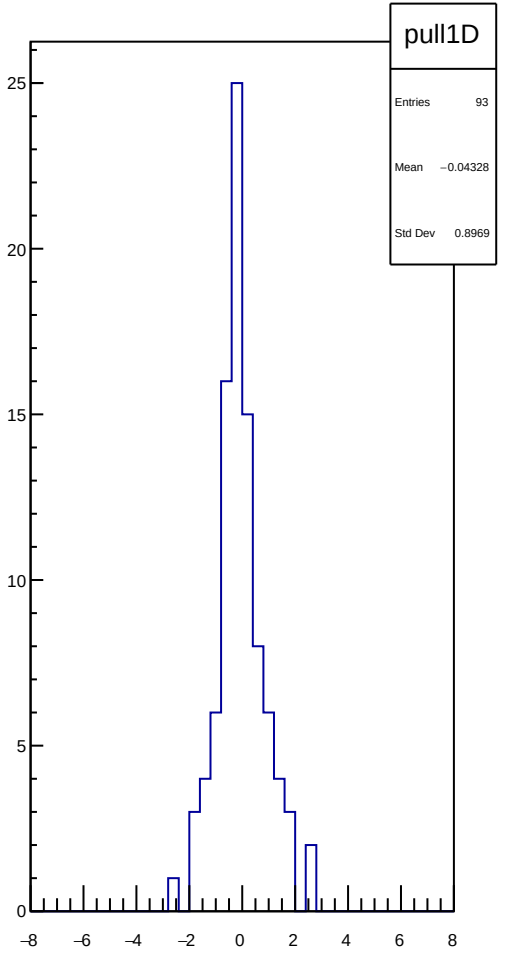

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.394e+04 / 92
p0 574.6 ± 0.4336
800
750
700
650
600
550
500

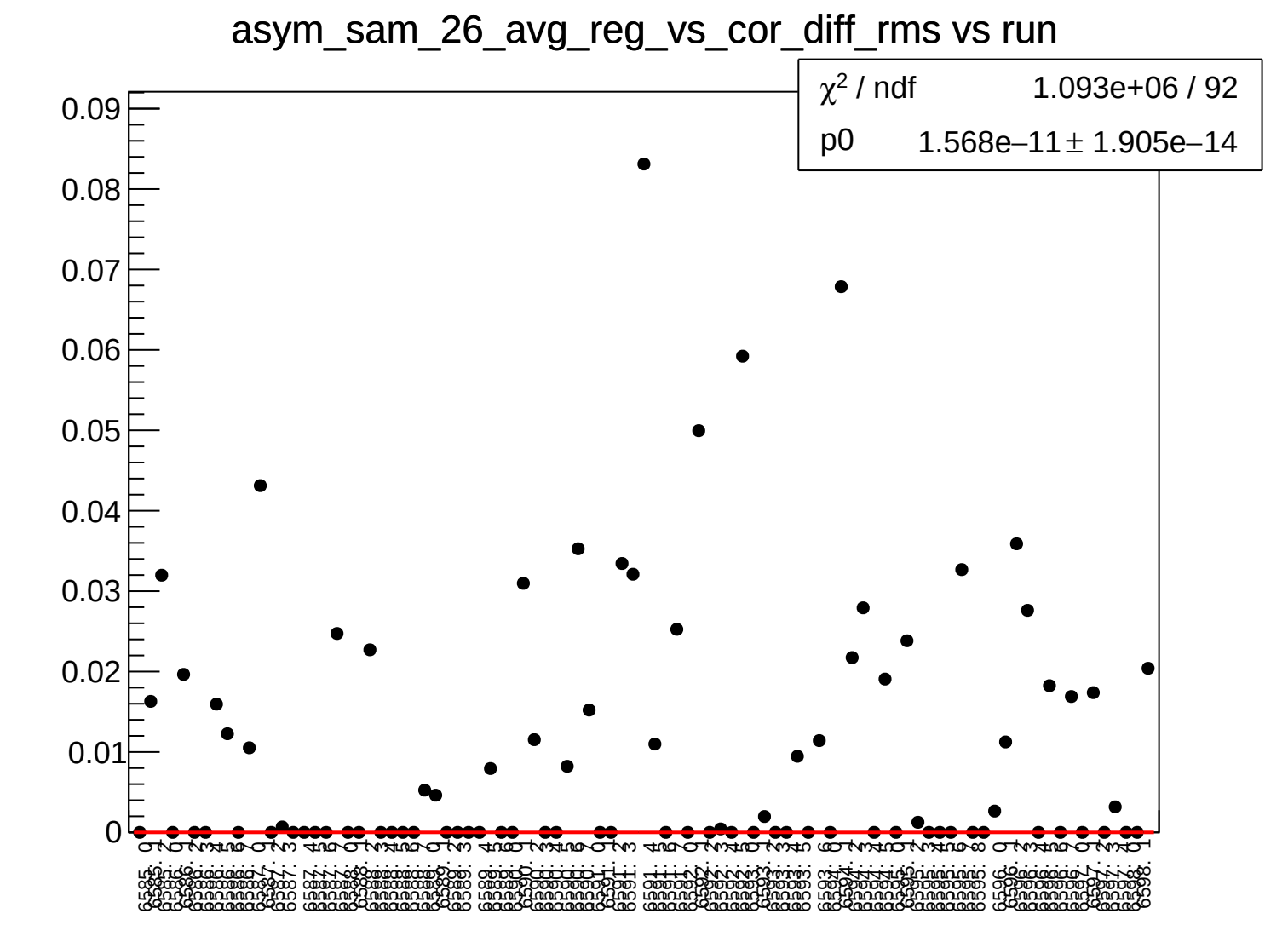

asym_sam_26_avg_mean vs run
χ² / ndf 108.7 / 92
p0 −135.8 ± 613.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 1074
Std Dev 0
2
1
0
−1
−2
−3

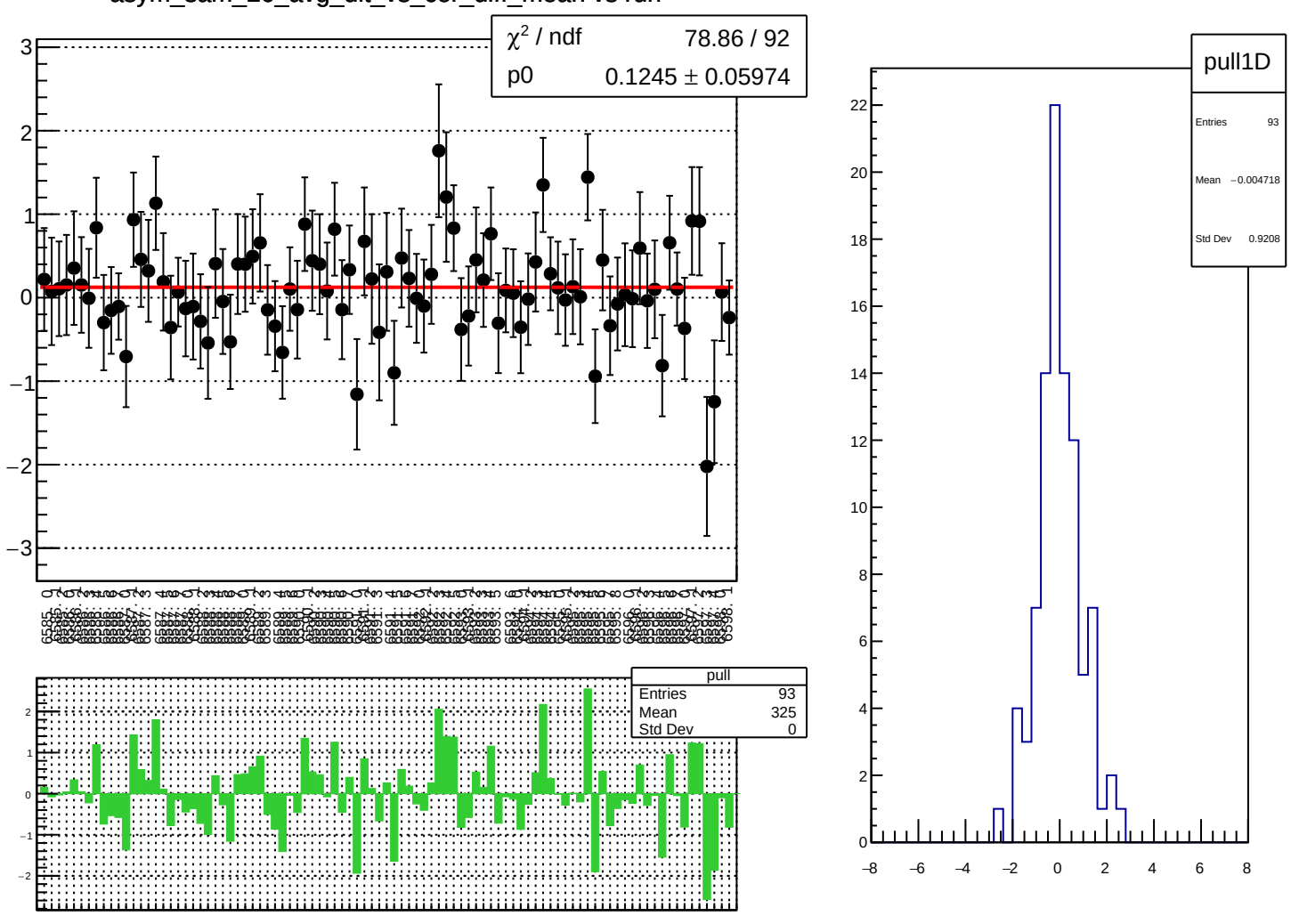

pull1D
Entries 93
Mean −0.001869
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

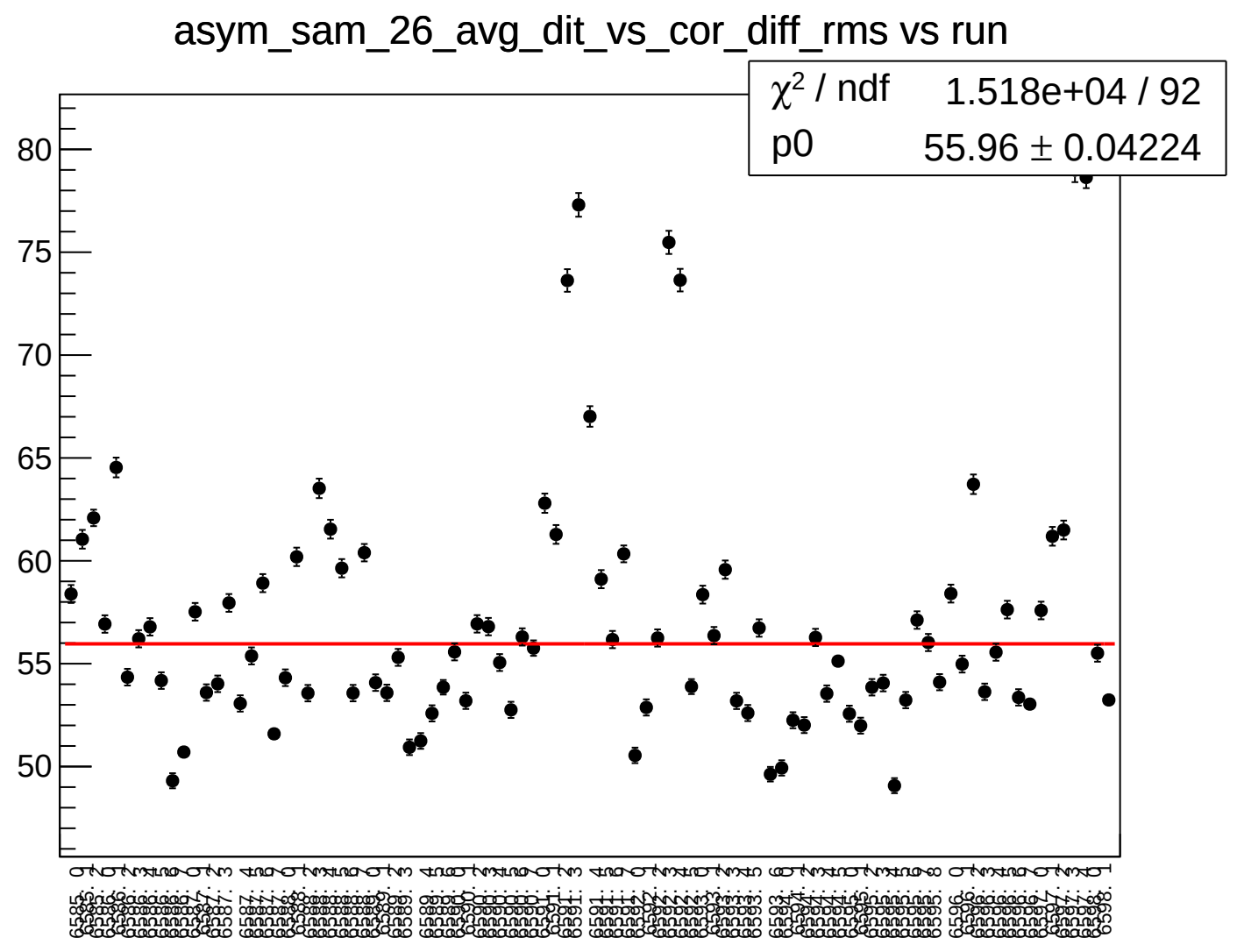

asym_sam_26_avg_rms vs run
χ² / ndf 1.995e+04 / 92
p0 573.8 ± 0.4337
850
800
750
700
650
600
550
500
450

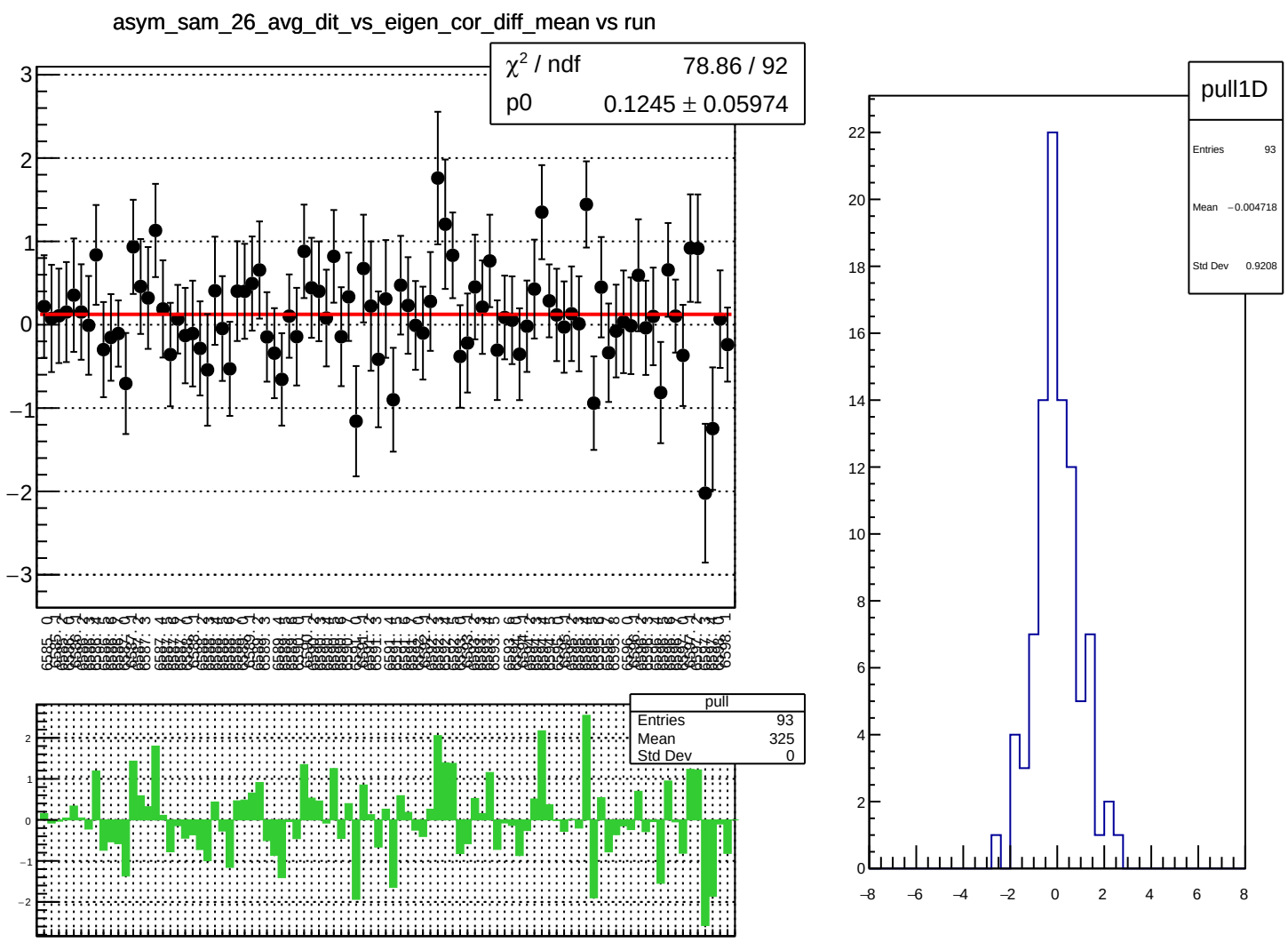

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.99 / 92
p0 −3.546e−15 ± 2.694e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 46.77
Std Dev 17.09
2
1
0
−1
−2

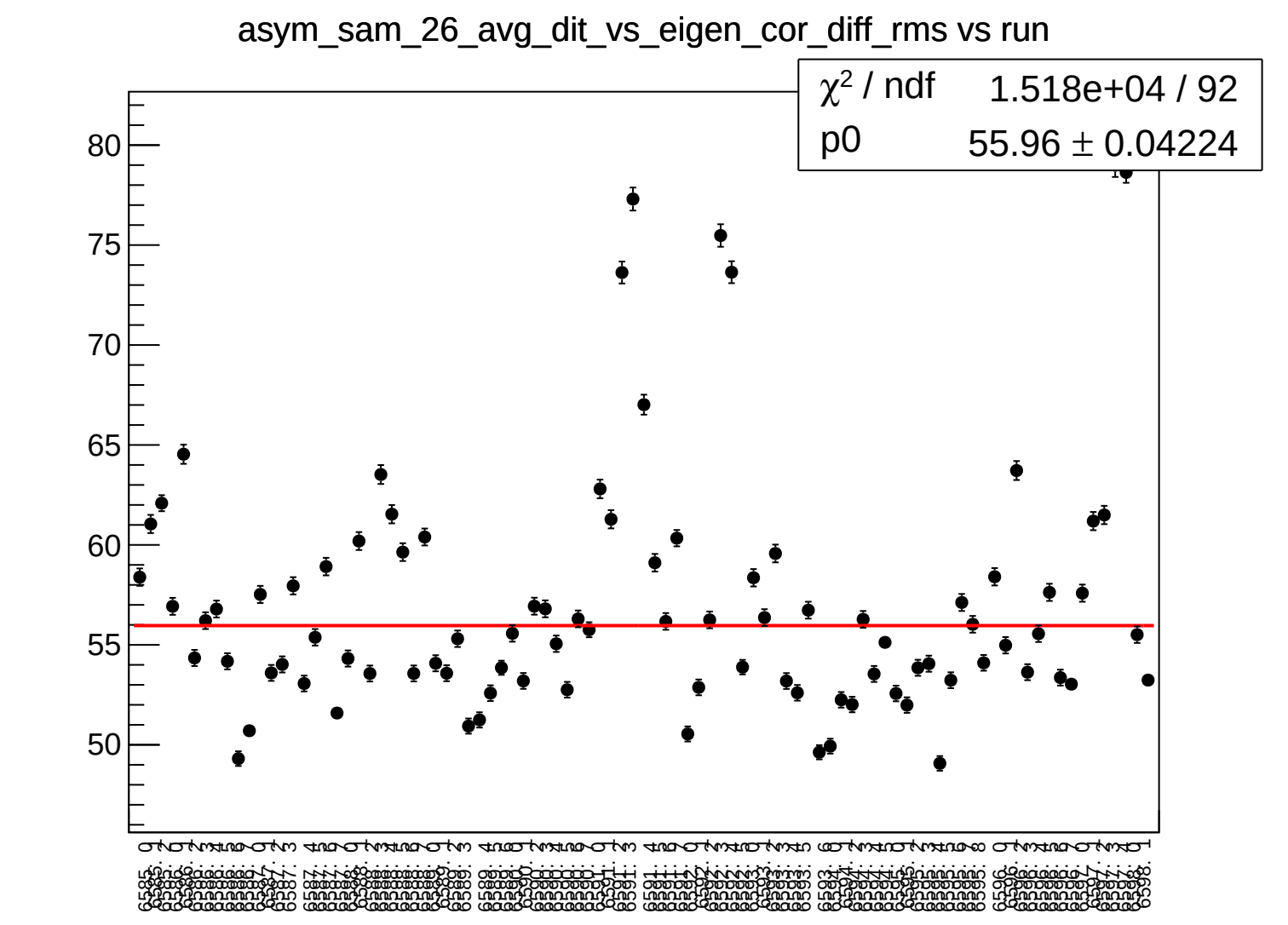

pull1D
Entries 93
Mean −0.04328
Std Dev 0.8969
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

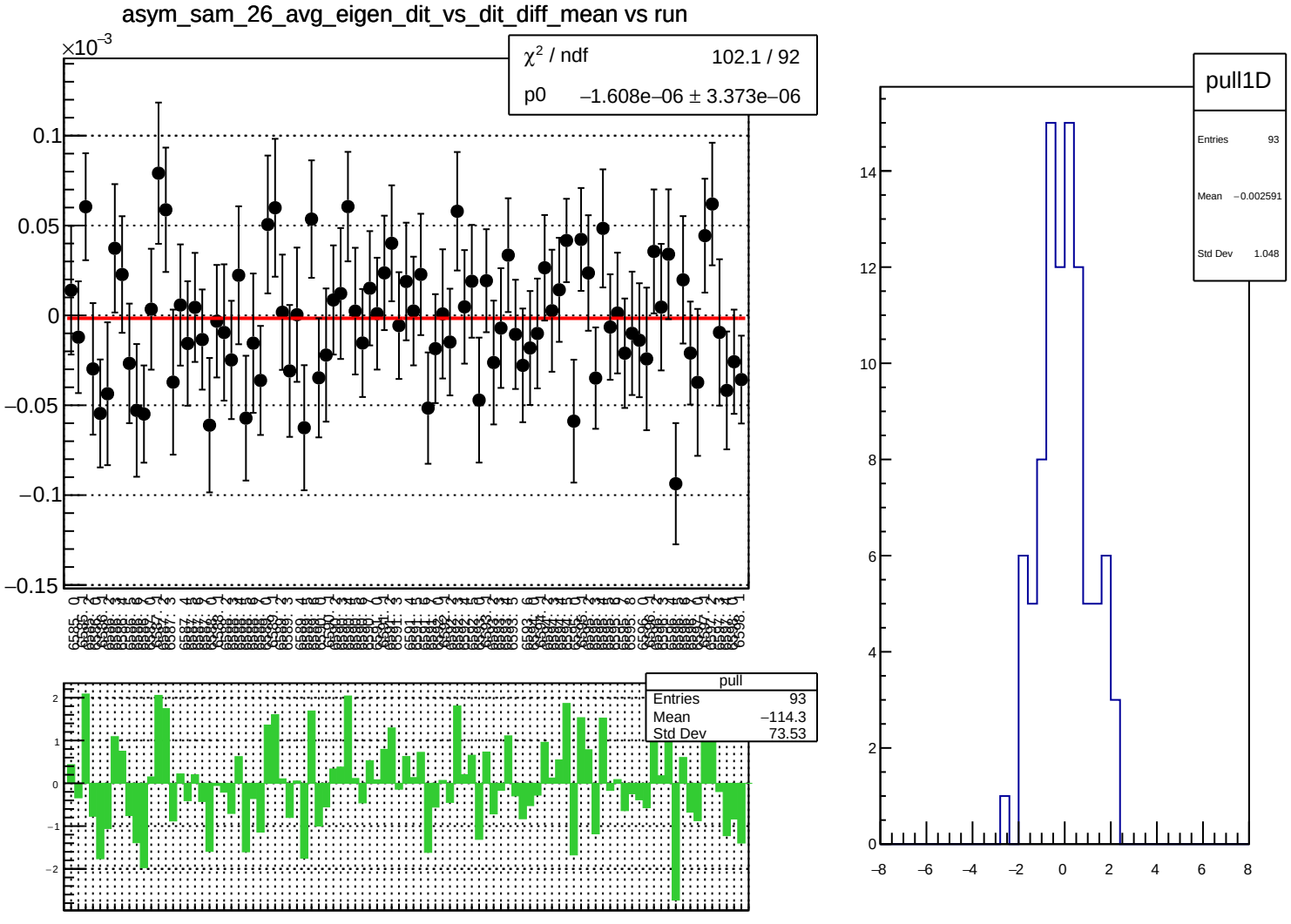

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 92
p0 1.568e−11 ± 1.905e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

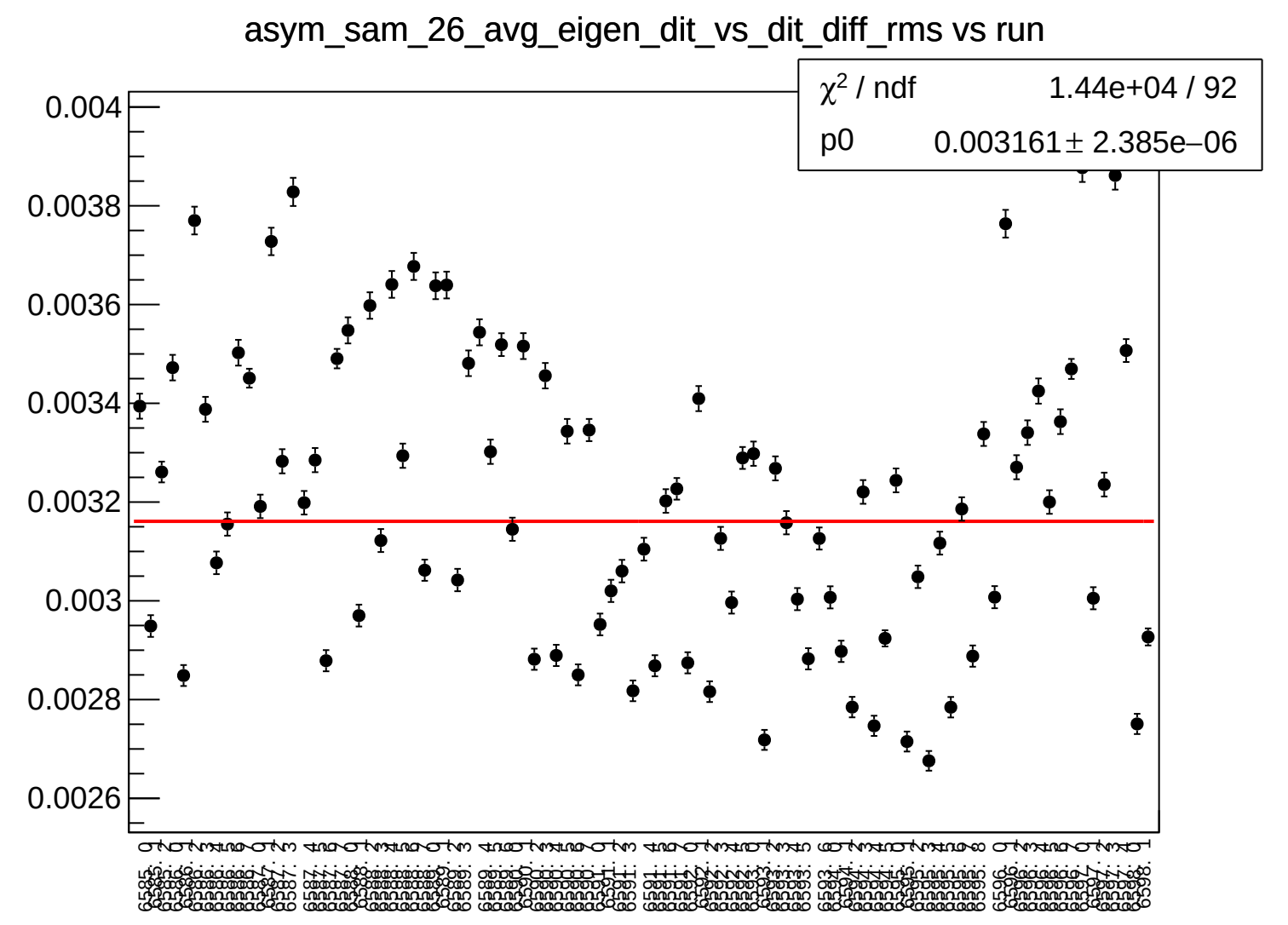

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.86 / 92
p0 0.1245 ± 0.05974
pull
Entries 93
Mean 325
Std Dev 0
pull1D
Entries 93
Mean −0.004718
Std Dev 0.9208

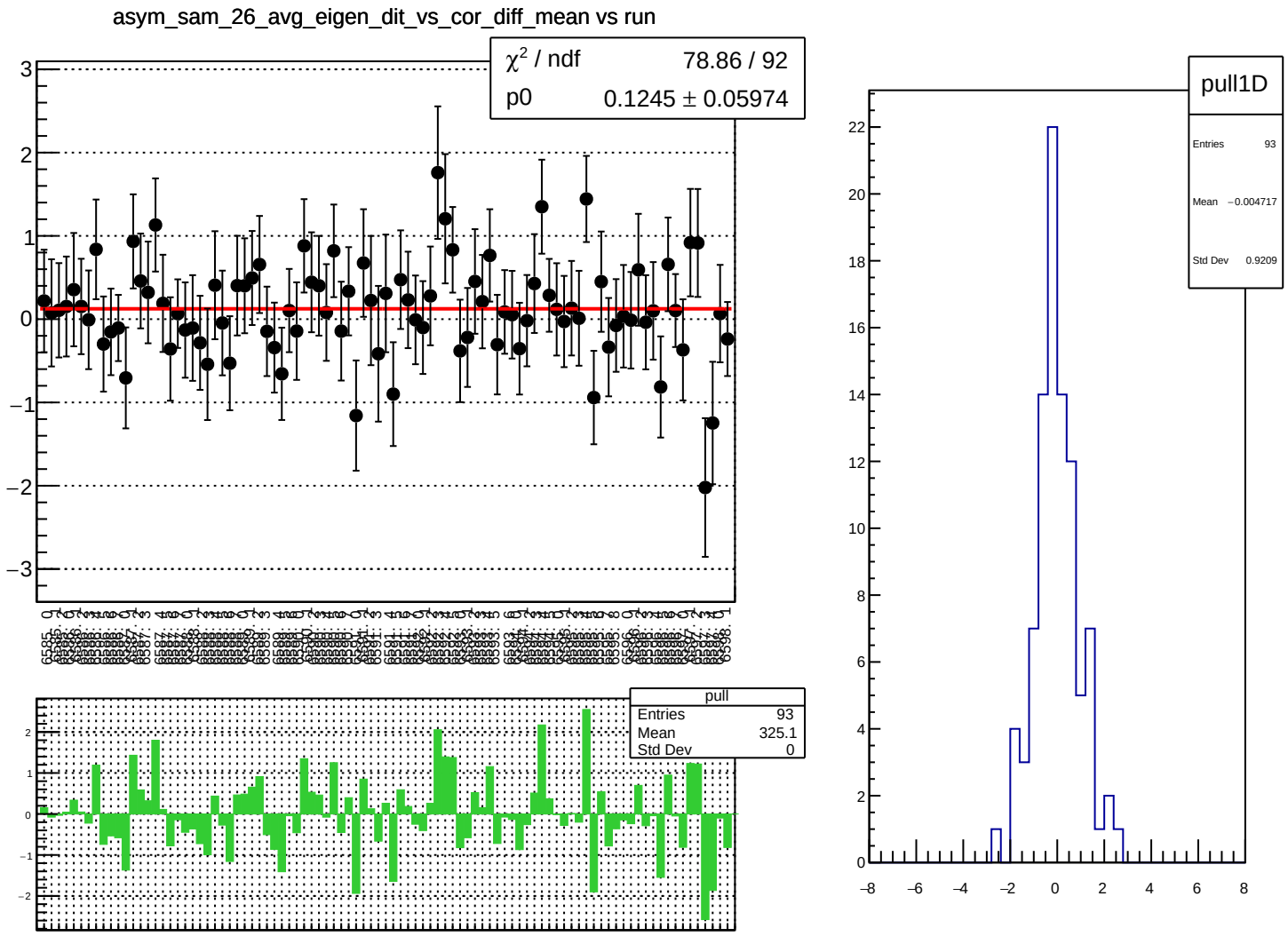

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.518e+04 / 92
p0 55.96 ± 0.04224
80
75
70
65
60
55
50

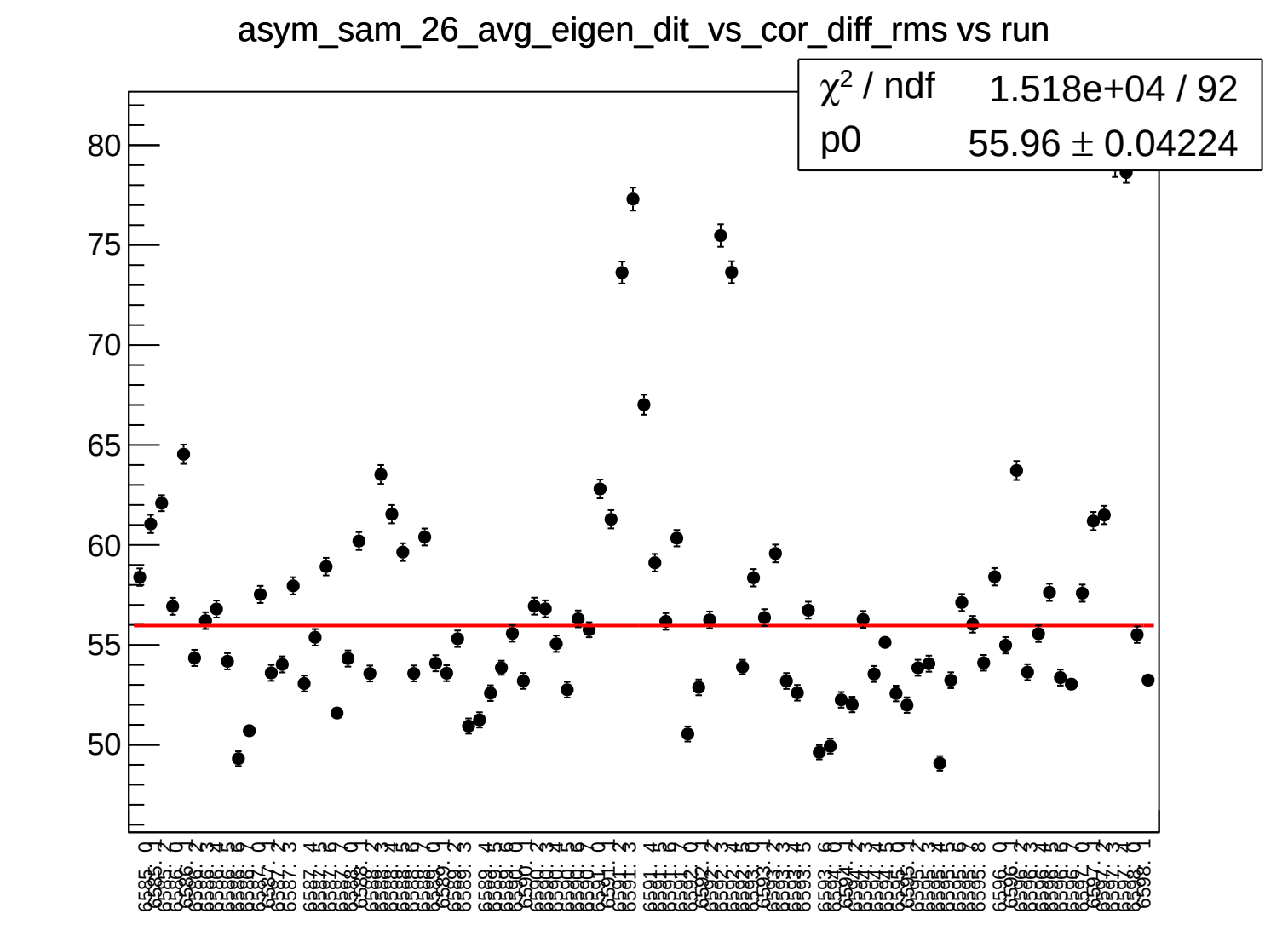

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.86 / 92
p0 0.1245 ± 0.05974
pull
Entries 93
Mean 325
Std Dev 0
pull1D
Entries 93
Mean −0.004718
Std Dev 0.9208

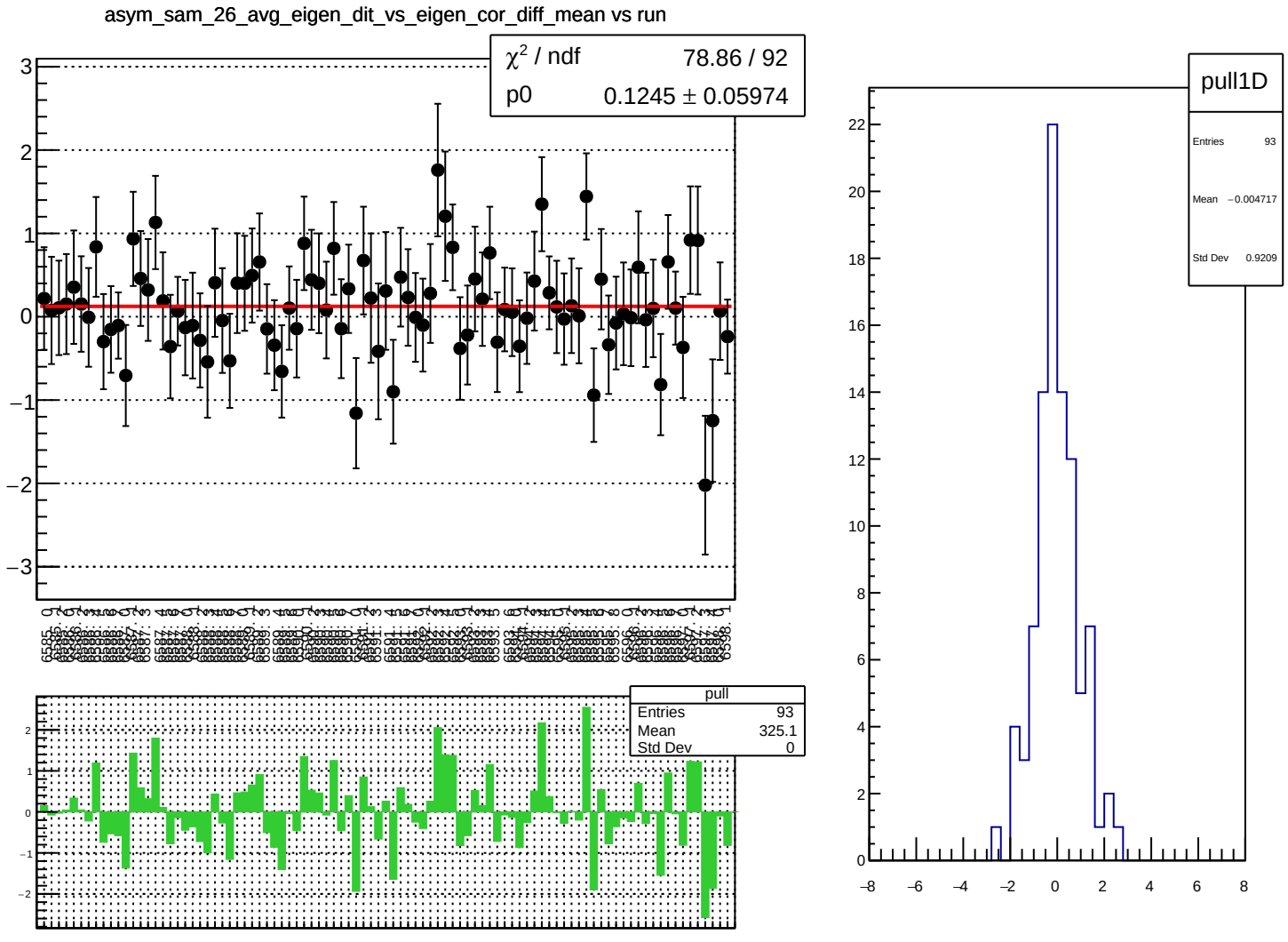

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.518e+04 / 92
p0 55.96 ± 0.04224
80
75
70
65
60
55
50

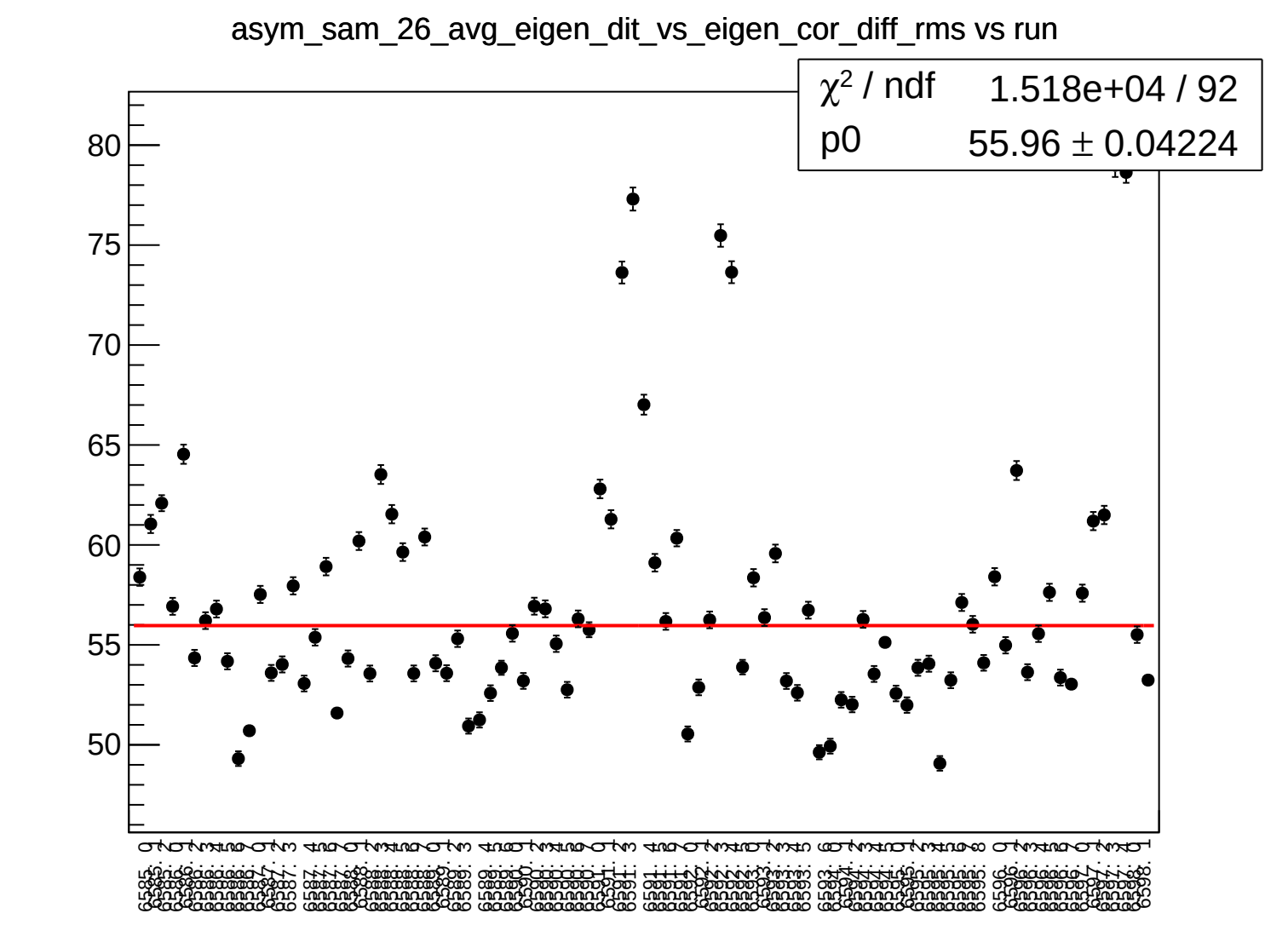

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.1 / 92
p0 −1.608e−06 ± 3.373e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean −114.3
Std Dev 73.53
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.002591
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

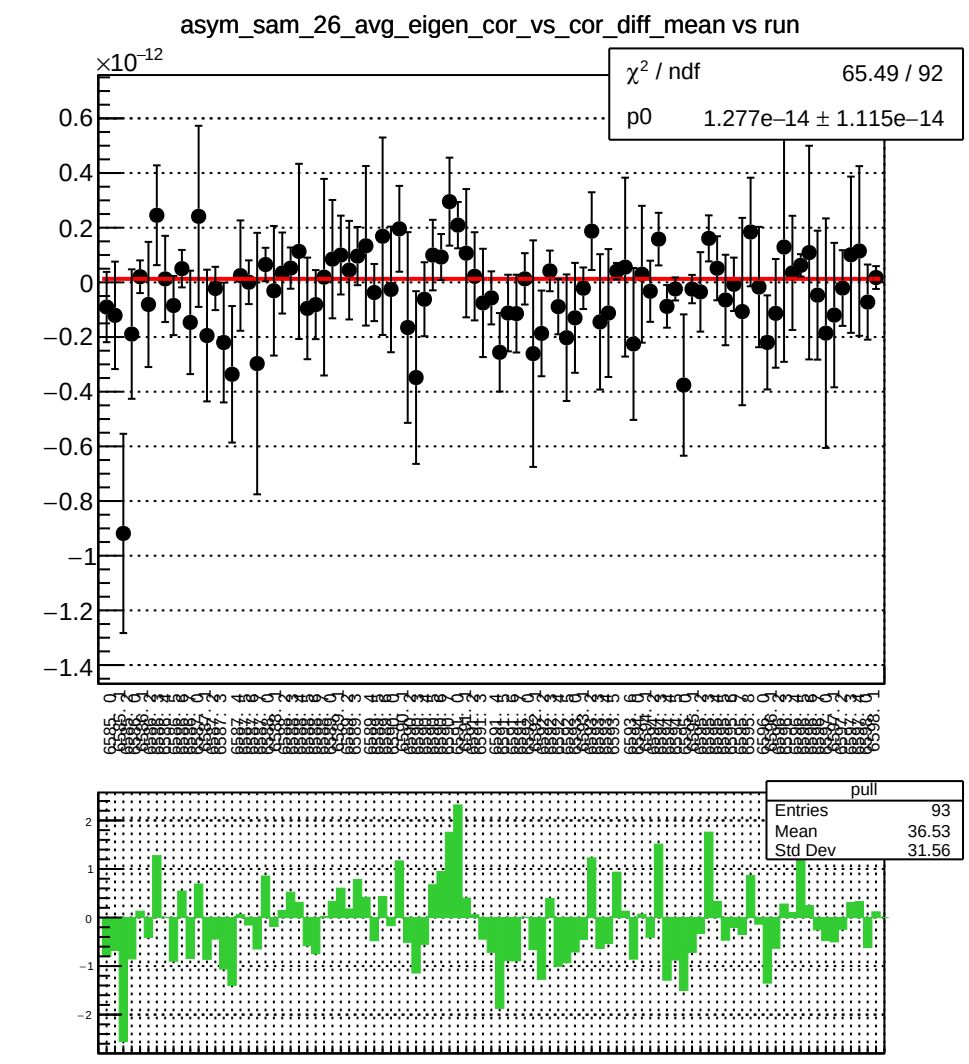

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.44e+04 / 92
p0 0.003161 ± 2.385e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

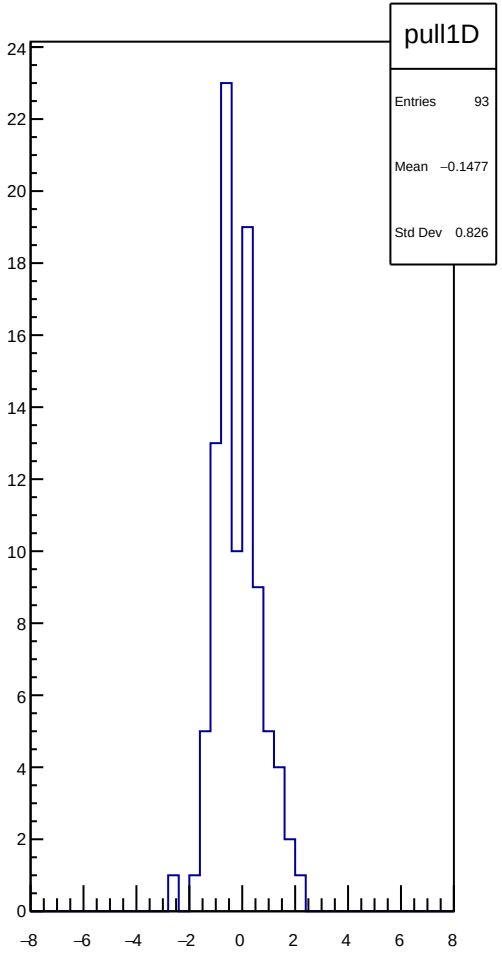

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.86 / 92
p0 0.1245 ± 0.05974
pull
Entries 93
Mean 325.1
Std Dev 0
pull1D
Entries 93
Mean −0.004717
Std Dev 0.9209

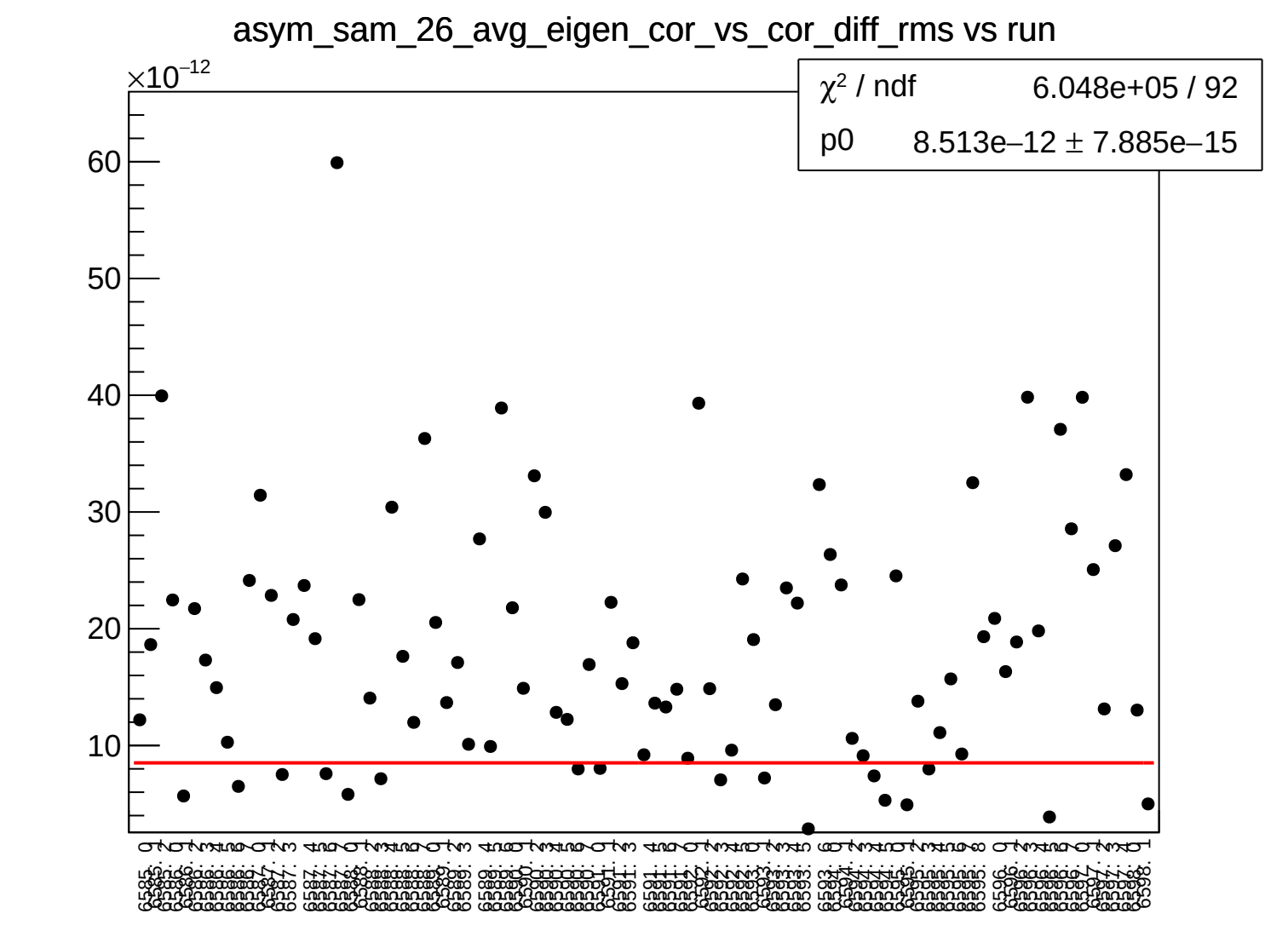

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.518e+04 / 92
p0 55.96 ± 0.04224
80
75
70
65
60
55
50

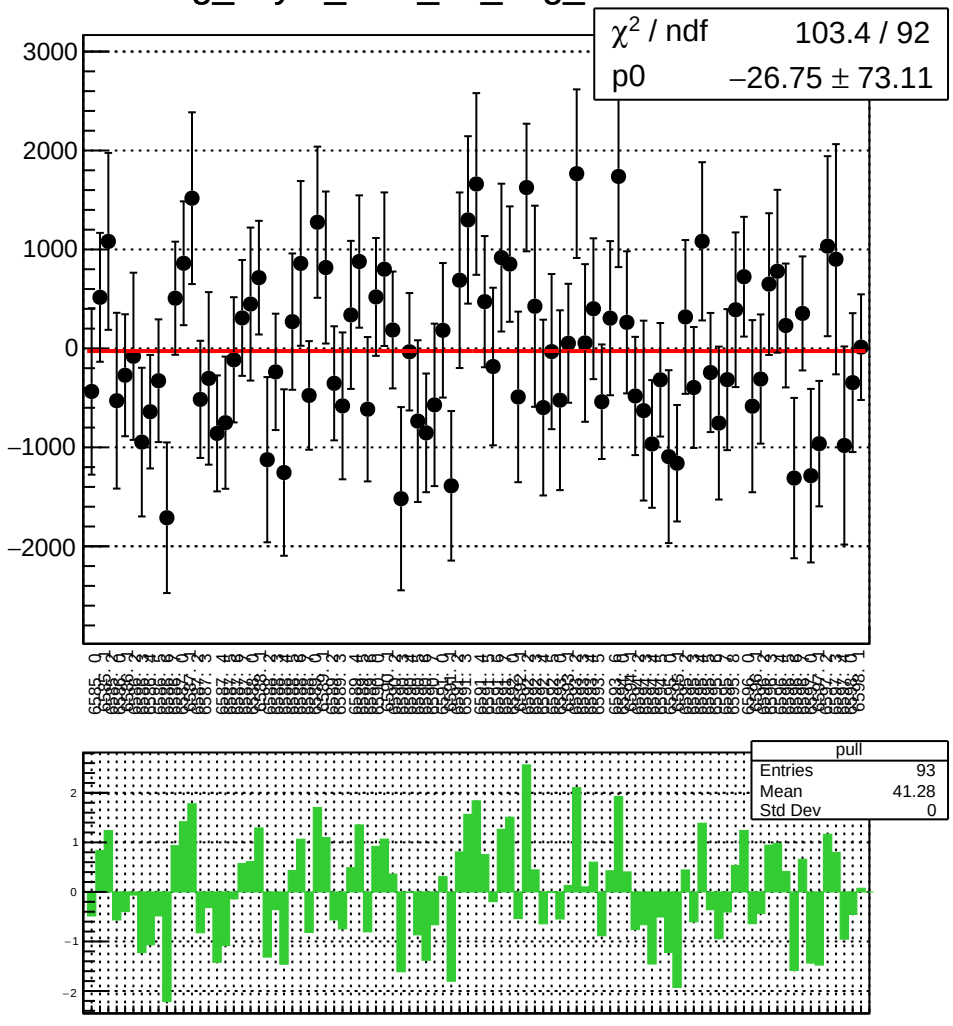

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.86 / 92
p0 0.1245 ± 0.05974
pull
Entries 93
Mean 325.1
Std Dev 0
pull1D
Entries 93
Mean −0.004717
Std Dev 0.9209

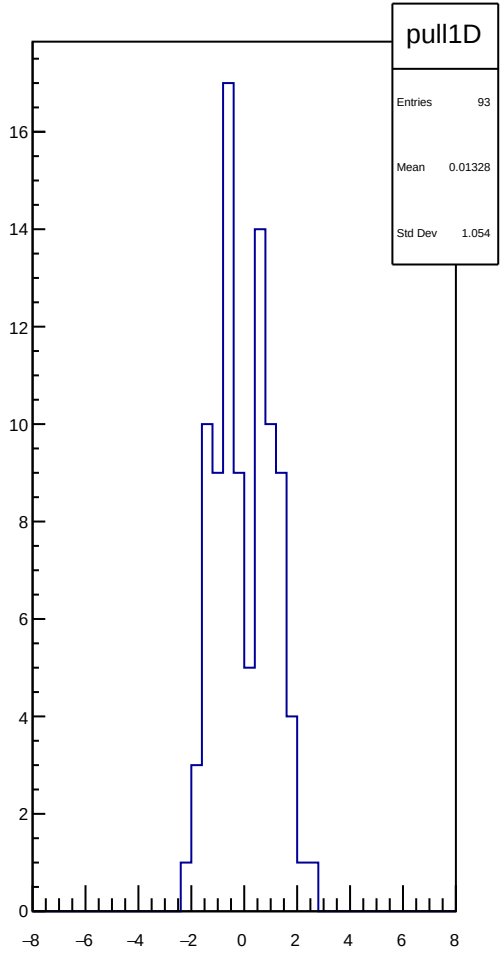

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.518e+04 / 92
p0 55.96 ± 0.04224
80
75
70
65
60
55
50

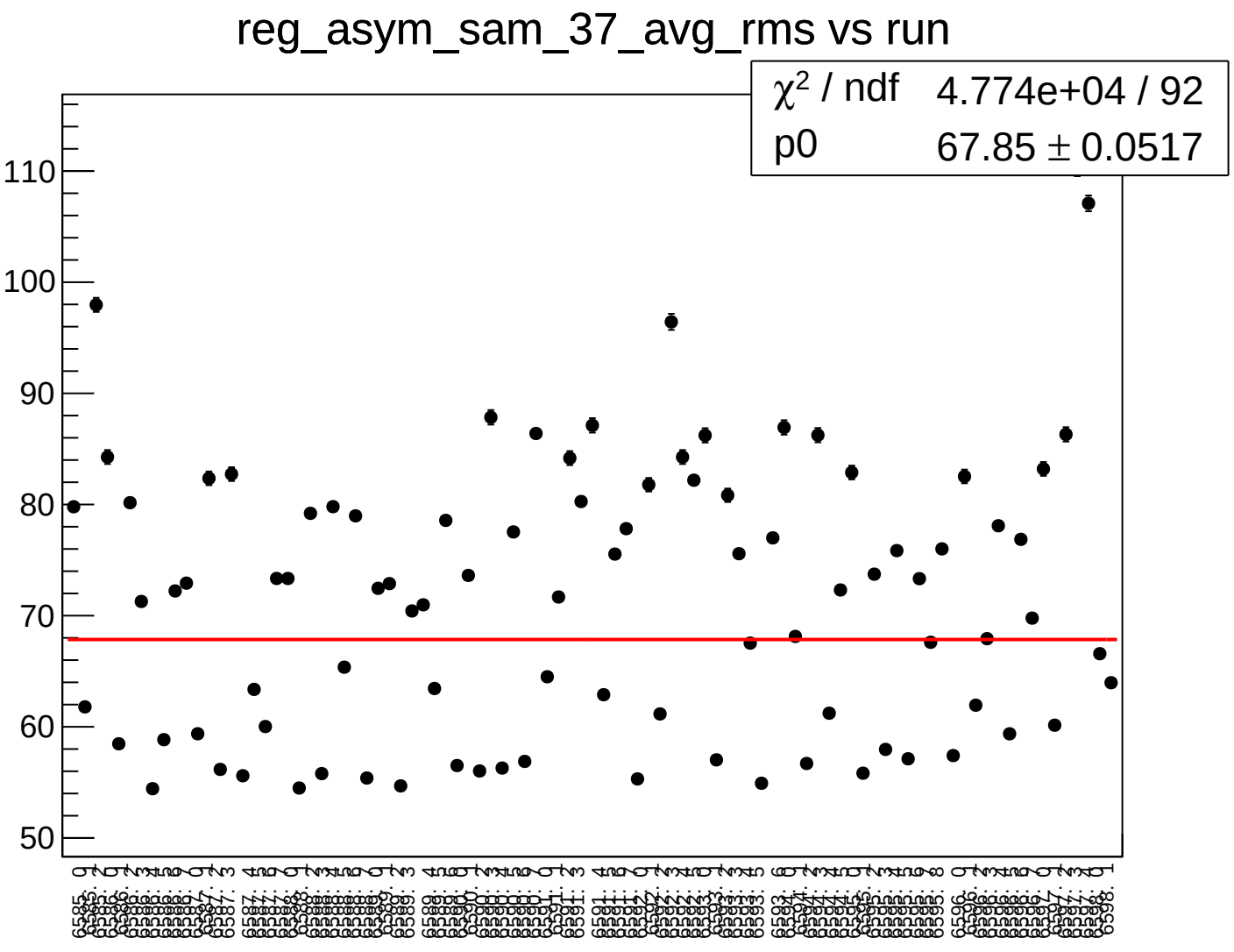

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.49 / 92
p0 1.277e−14 ± 1.115e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 93
Mean 36.53
Std Dev 31.56
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.1477
Std Dev 0.826
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

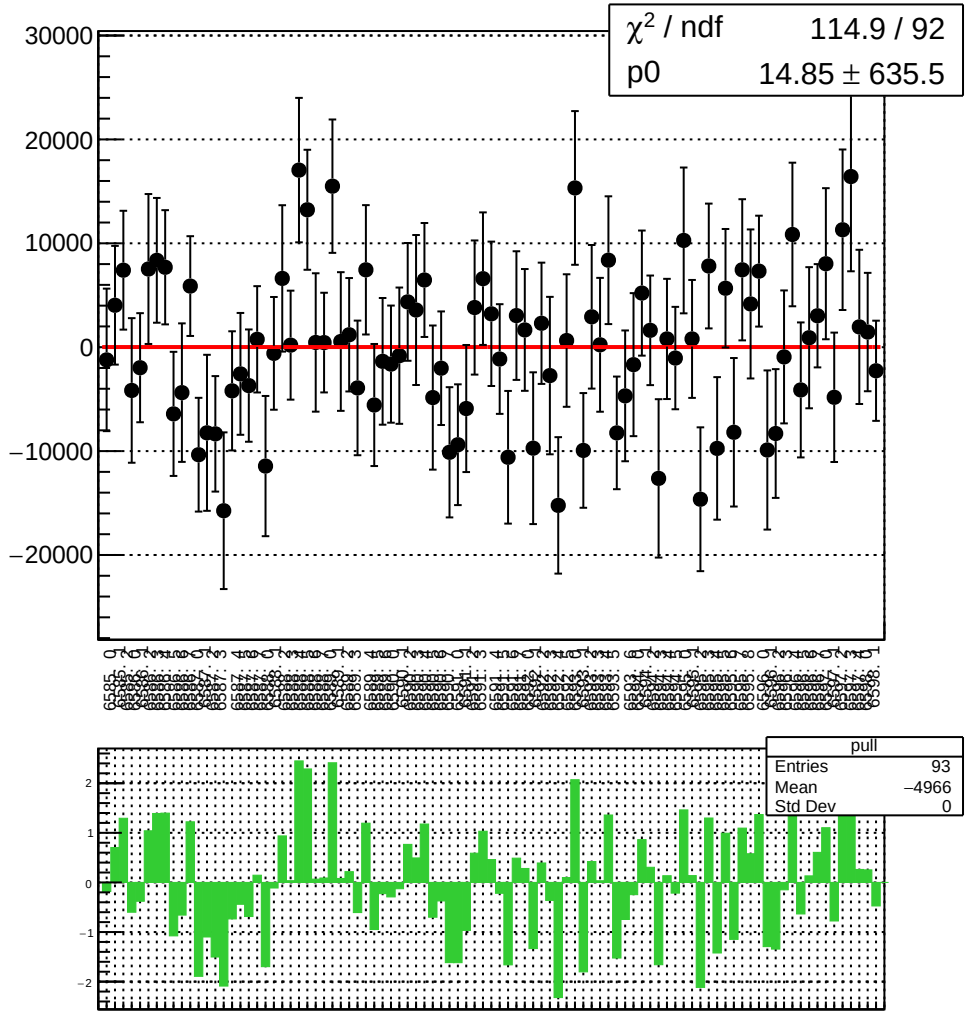

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.048e+05 / 92
p0 8.513e−12 ± 7.885e−15
60
50
40
30
20
10

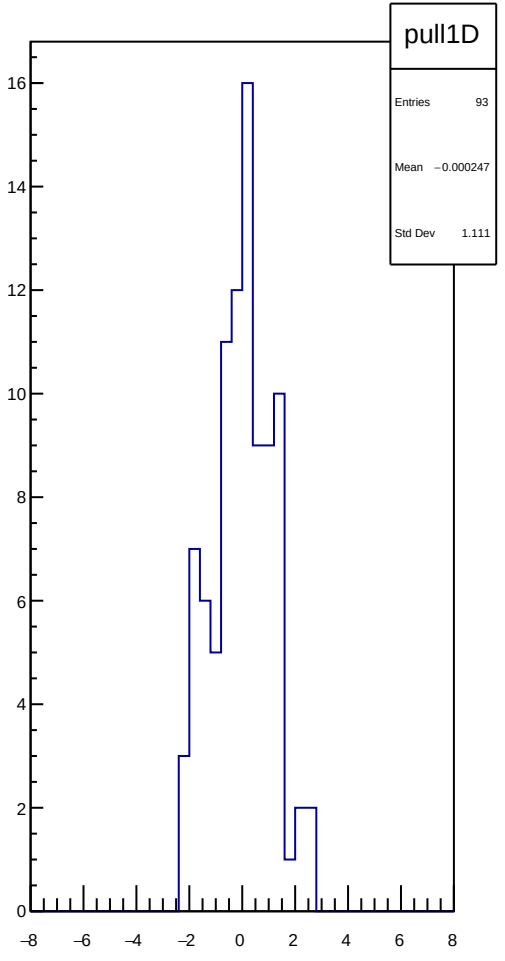

reg_asym_sam_37_avg_mean vs run
χ² / ndf 103.4 / 92
p0 −26.75 ± 73.11
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 41.28
Std Dev 0
2
1
0
−1
−2

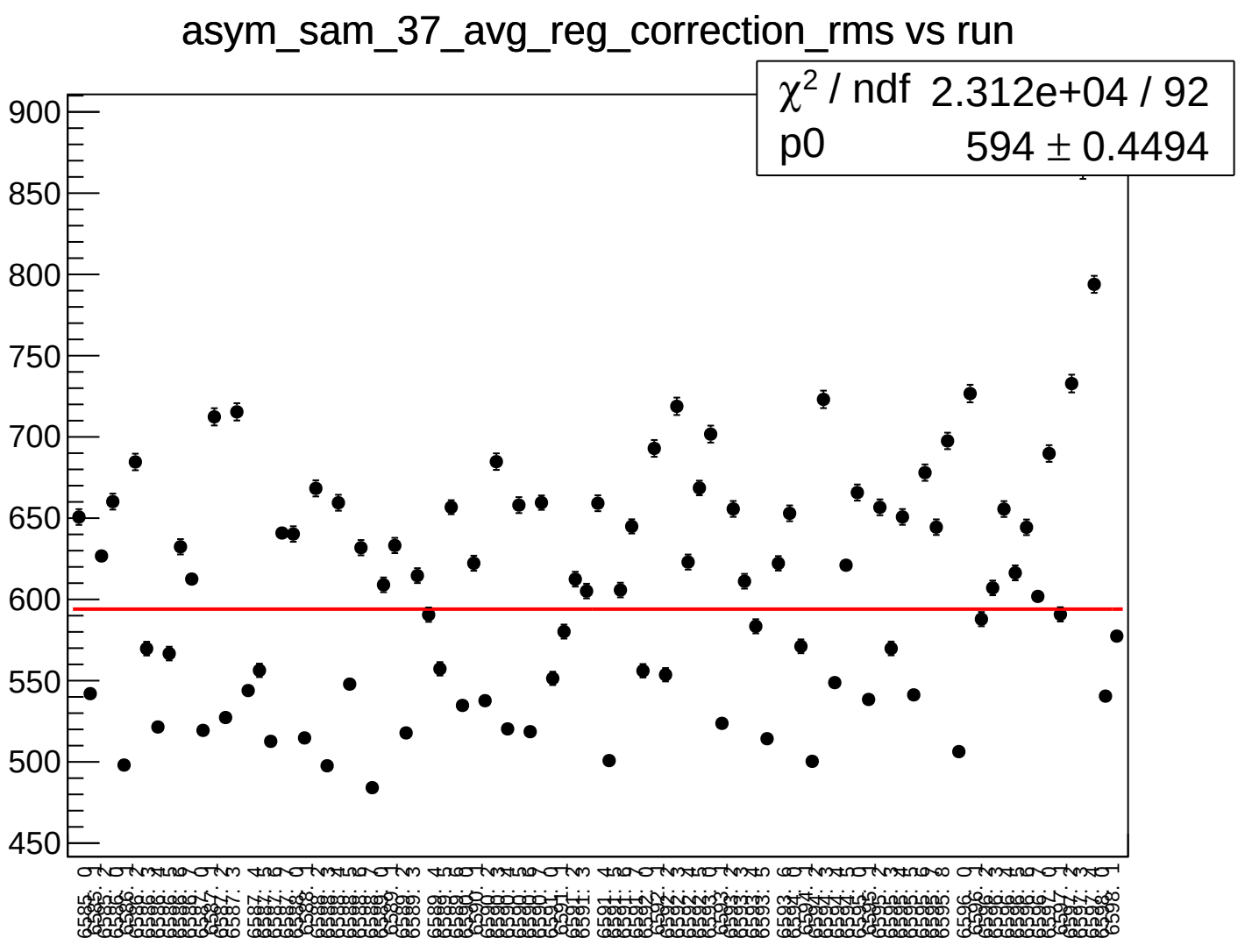

pull1D
Entries 93
Mean 0.01328
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

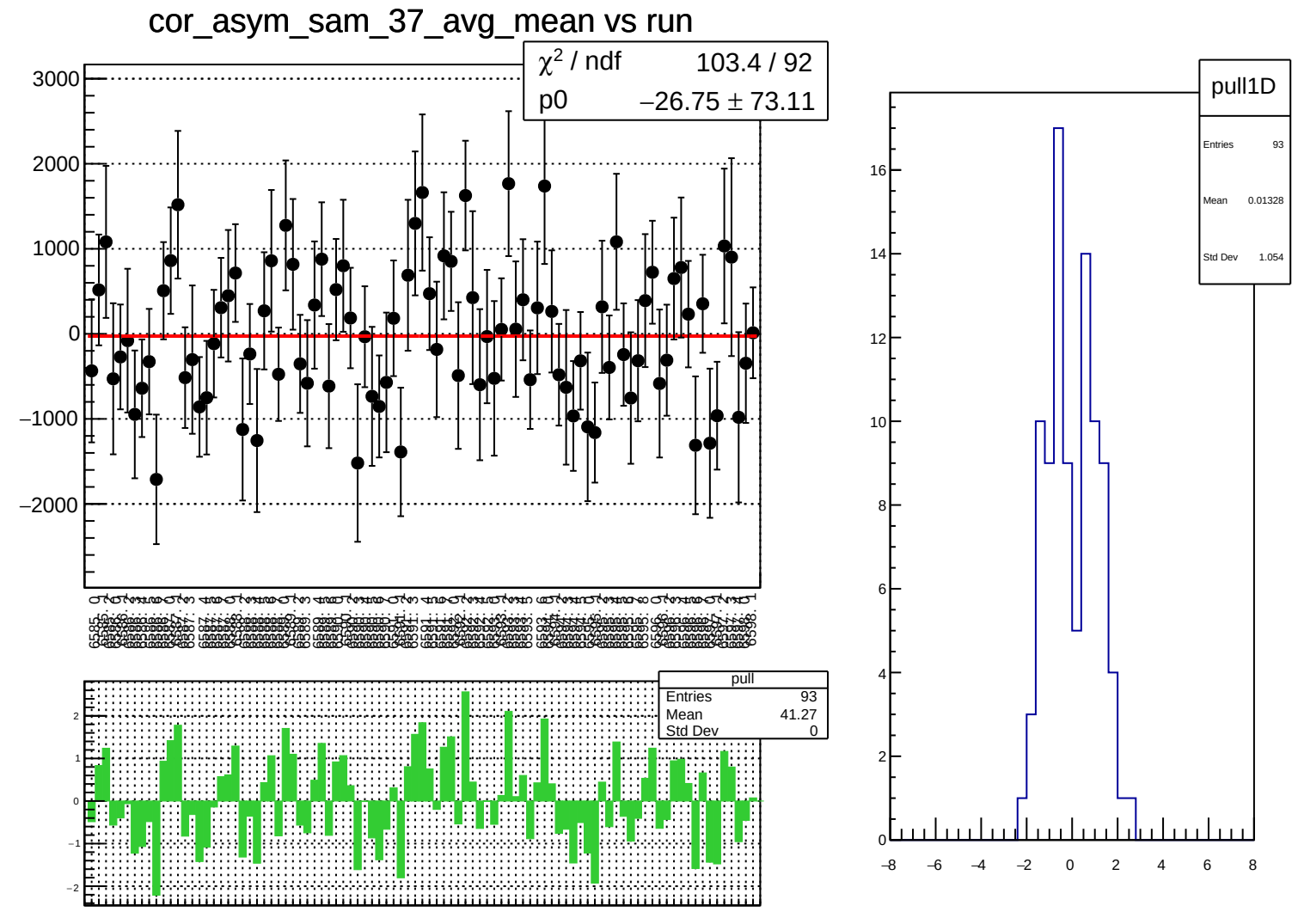

reg_asym_sam_37_avg_rms vs run
χ² / ndf 4.774e+04 / 92
p0 67.85 ± 0.0517
110
100
90
80
70
60
50

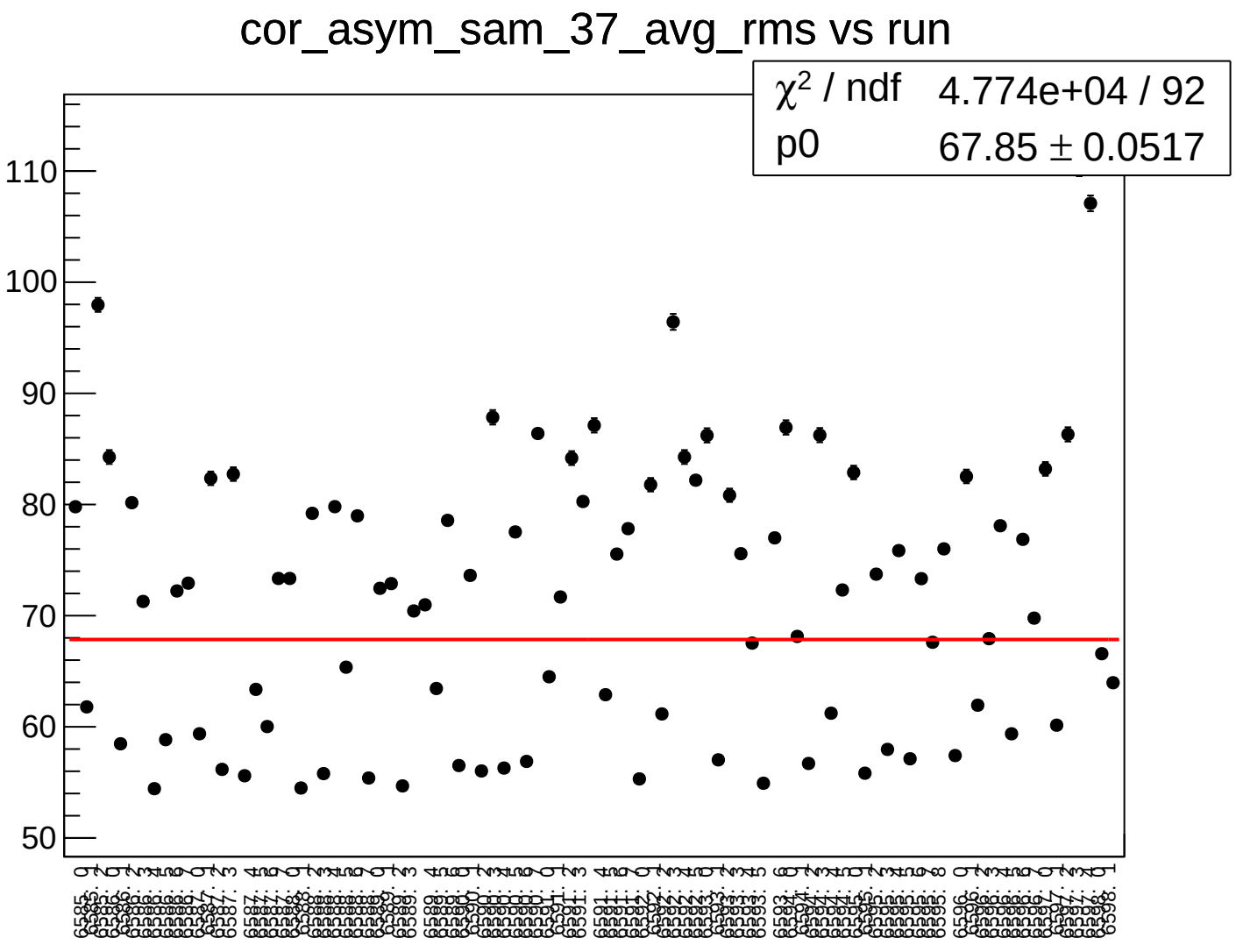
asym_sam_37_avg_reg_correction_mean vs run

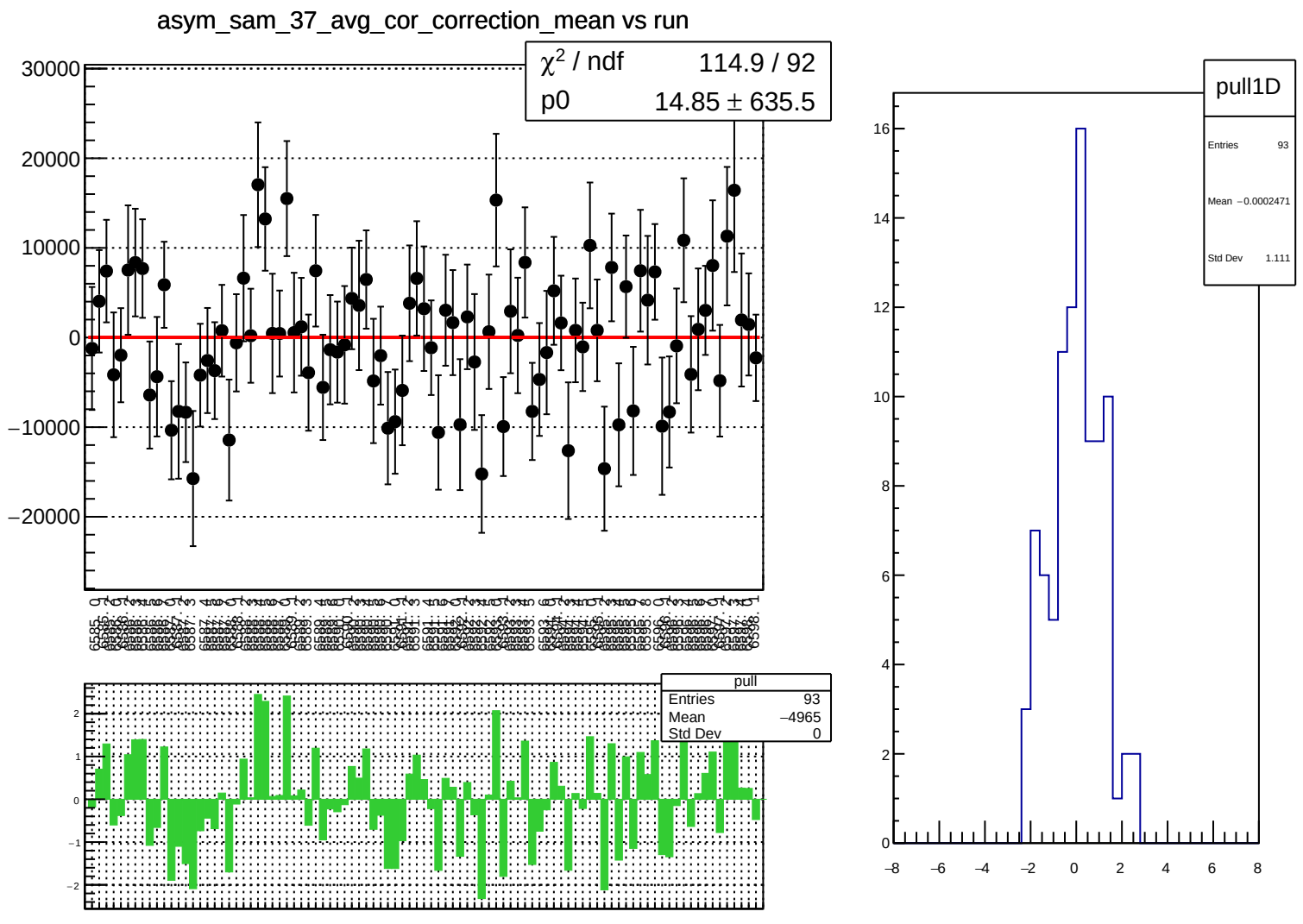


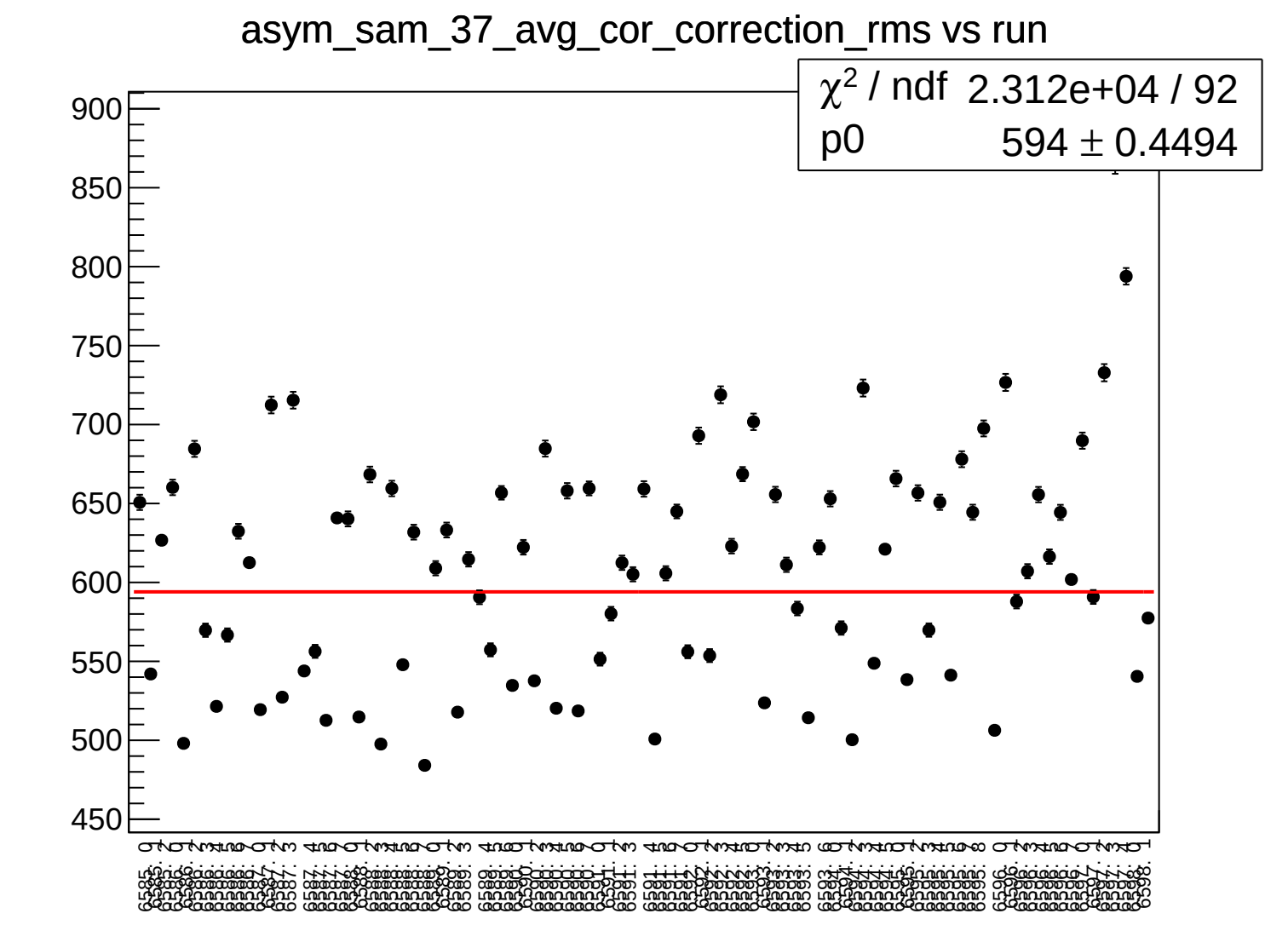


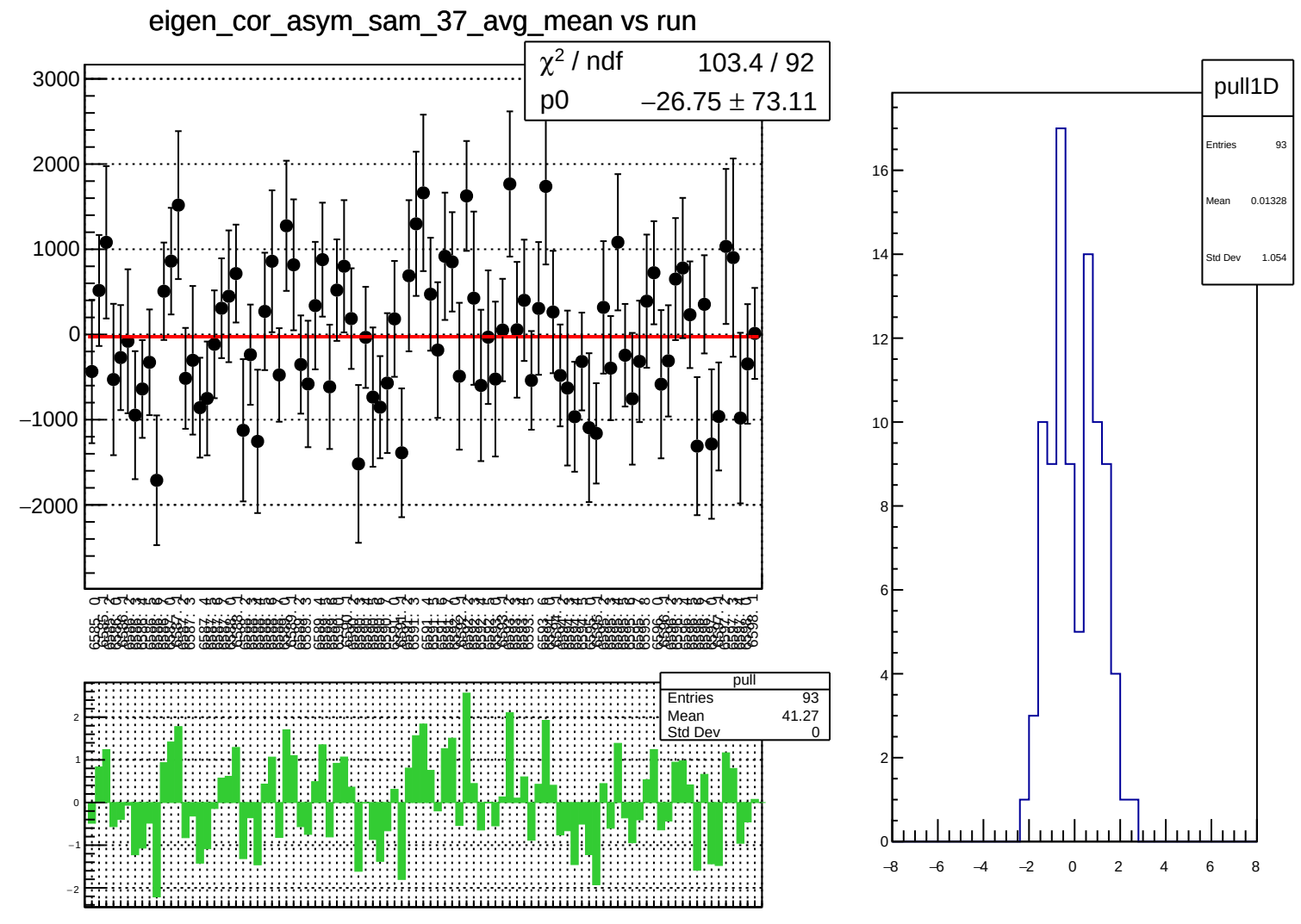

asym_sam_37_avg_reg_correction_rms vs run
χ^2 / ndf 2.312e+04 / 92
p0 594 ± 0.4494
900
850
800
750
700
650
600
550
500
450

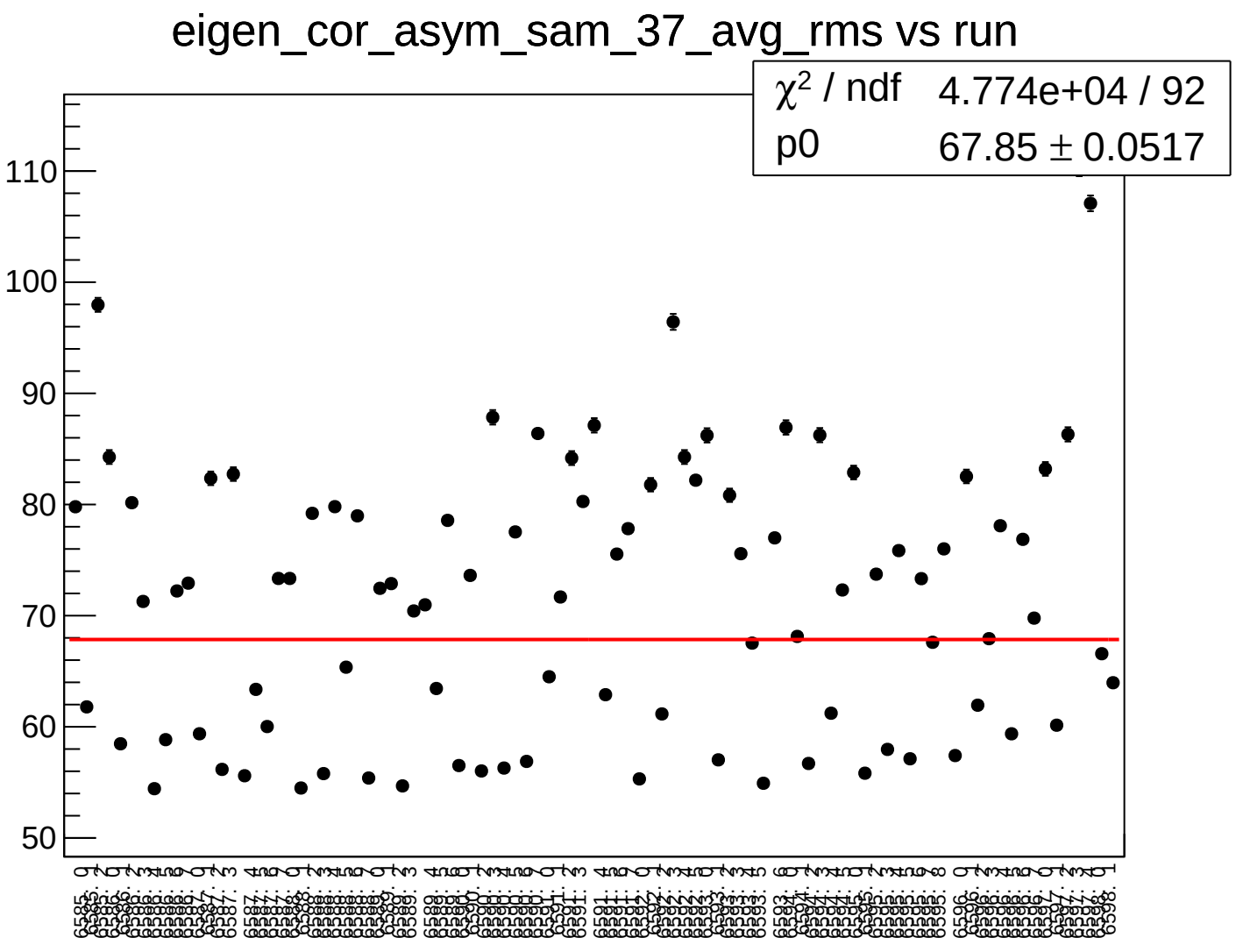

cor_asym_sam_37_avg_mean vs run
χ² / ndf 103.4 / 92
p0 −26.75 ± 73.11
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 41.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01328
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

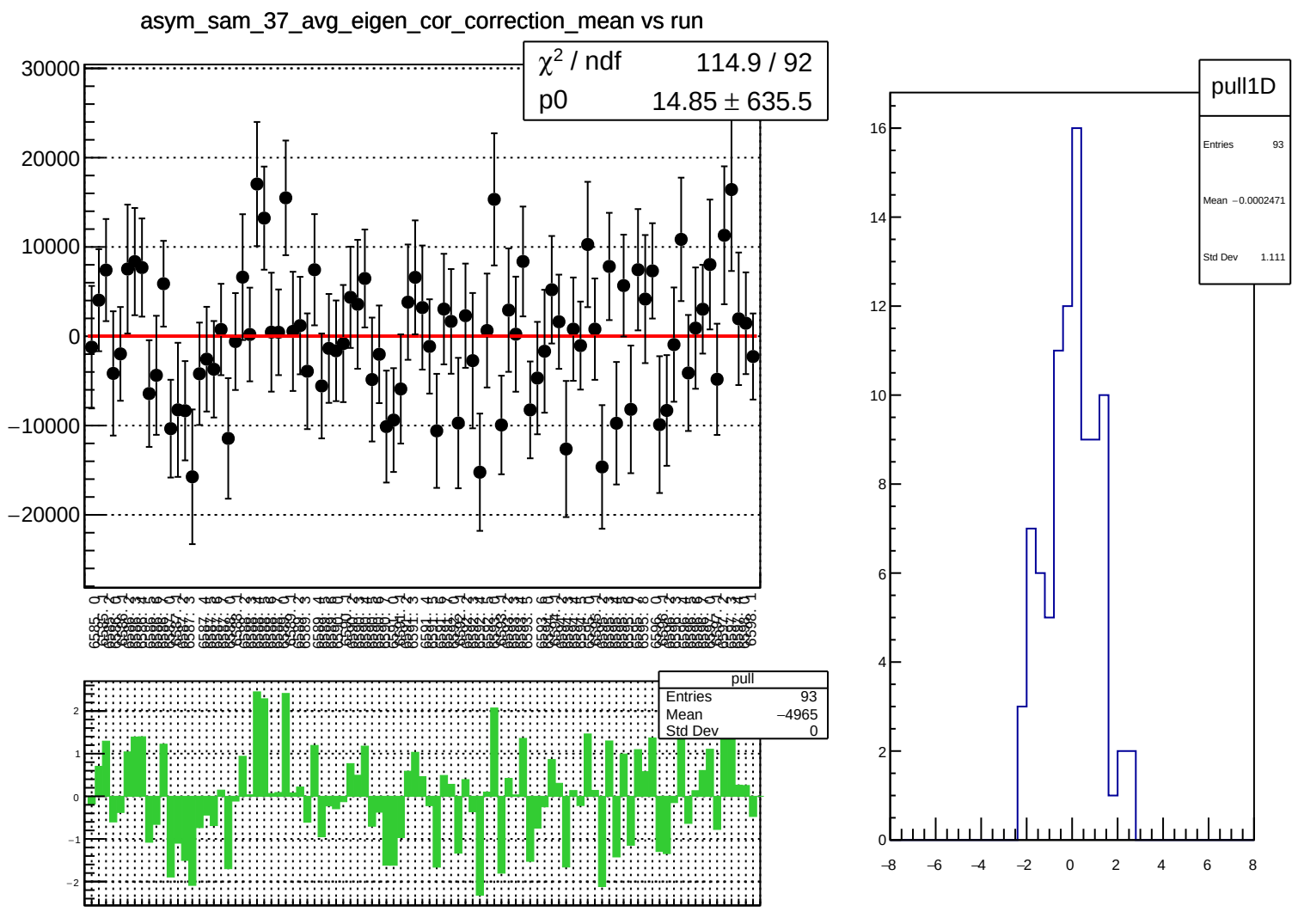

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.774e+04 / 92
p0 67.85 ± 0.0517
110
100
90
80
70
60
50

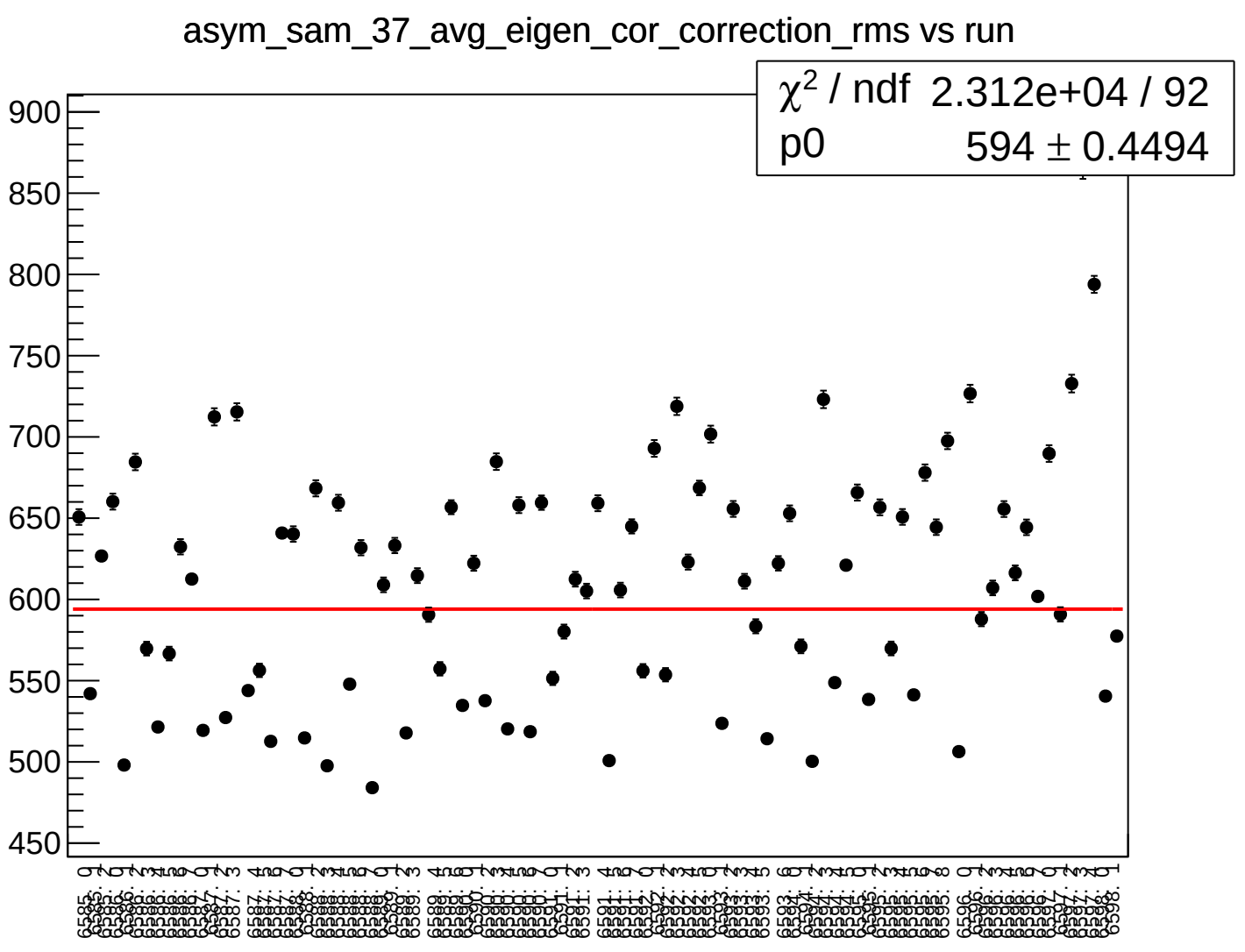

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 114.9 / 92
p0 14.85 ± 635.5
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −4965
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0002471
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

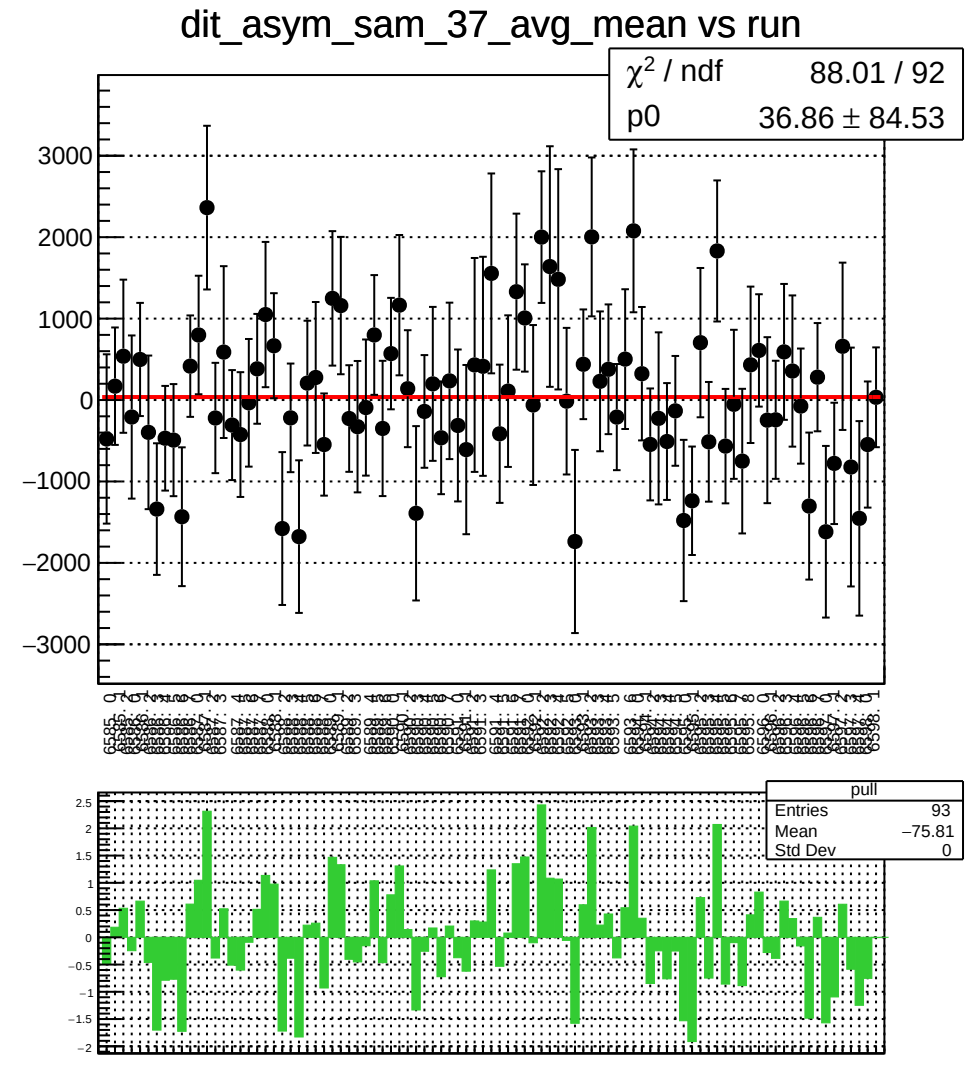

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2.312e+04 / 92
p0 594 ± 0.4494
900
850
800
750
700
650
600
550
500
450

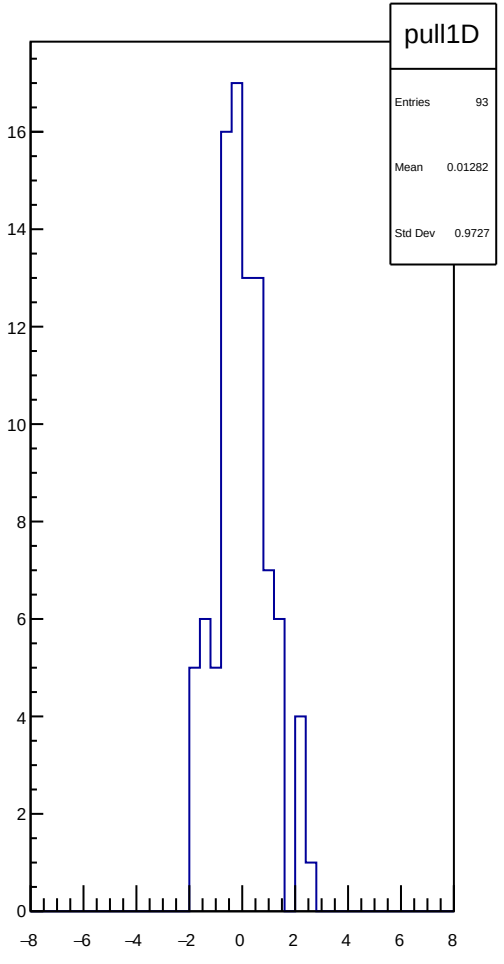

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 103.4 / 92
p0 −26.75 ± 73.11
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 41.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01328
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

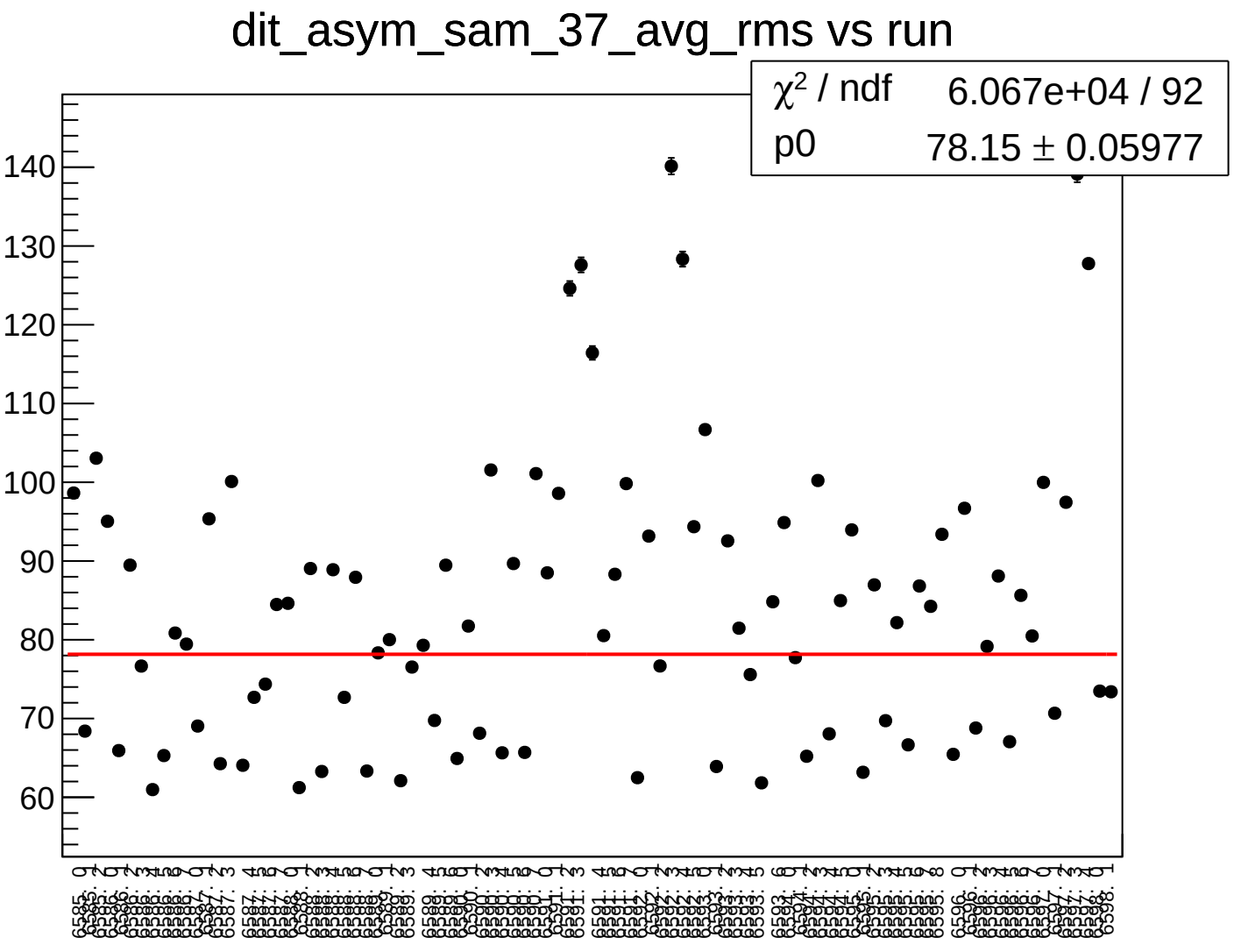

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 4.774e+04 / 92
p0 67.85 ± 0.0517
110
100
90
80
70
60
50

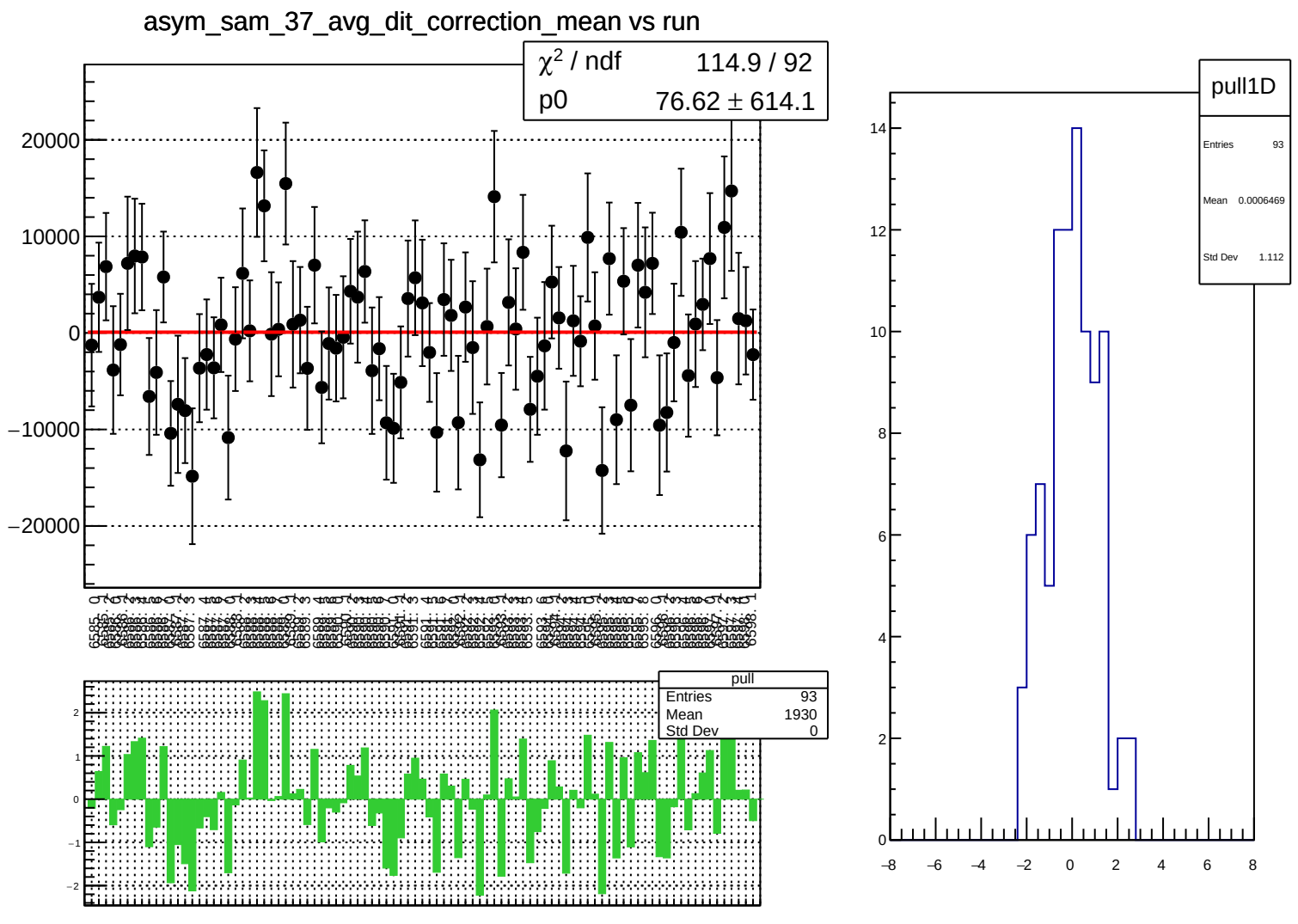

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 114.9 / 92
p0 14.85 ± 635.5
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −4965
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0002471
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

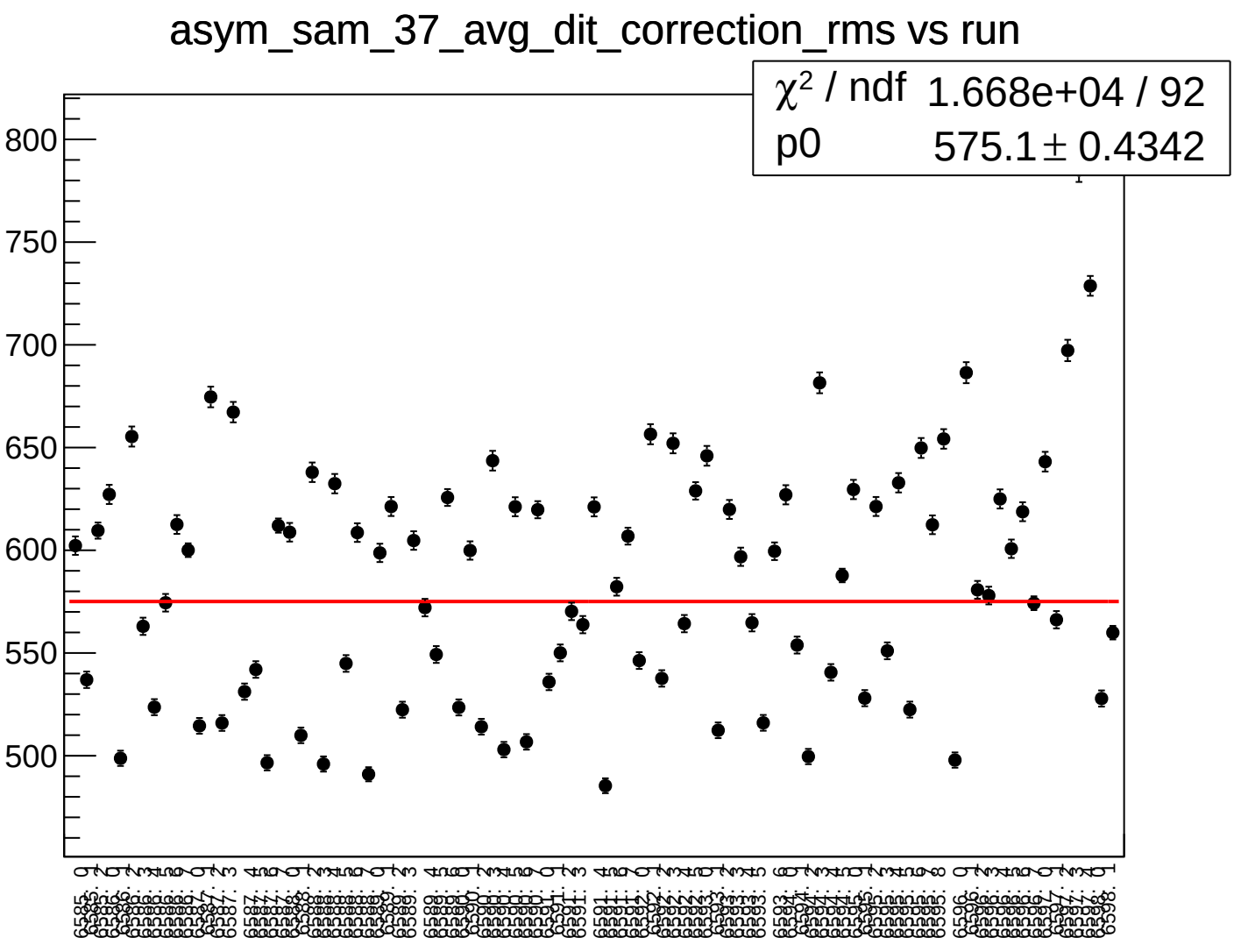

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.312e+04 / 92
p0 594 ± 0.4494
900
850
800
750
700
650
600
550
500
450

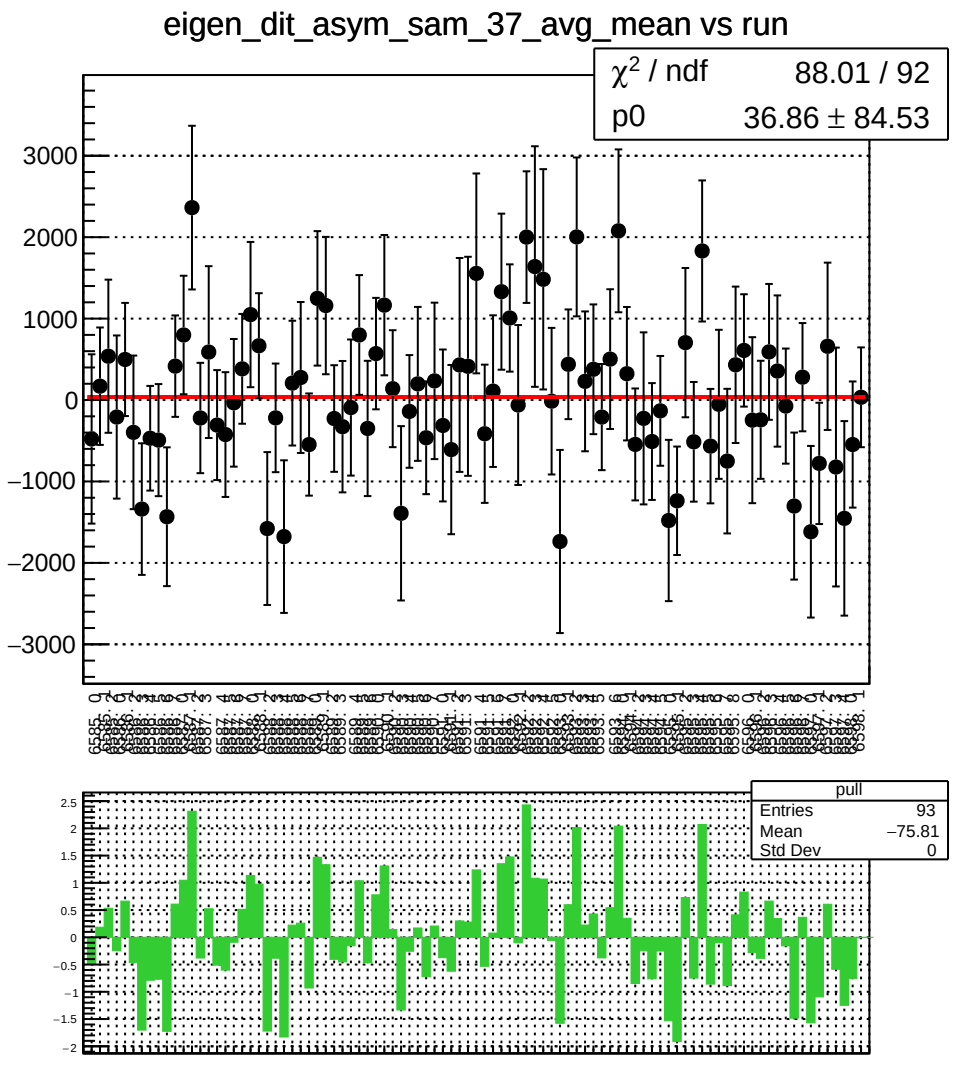

dit_asym_sam_37_avg_mean vs run
χ² / ndf 88.01 / 92
p0 36.86 ± 84.53
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −75.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

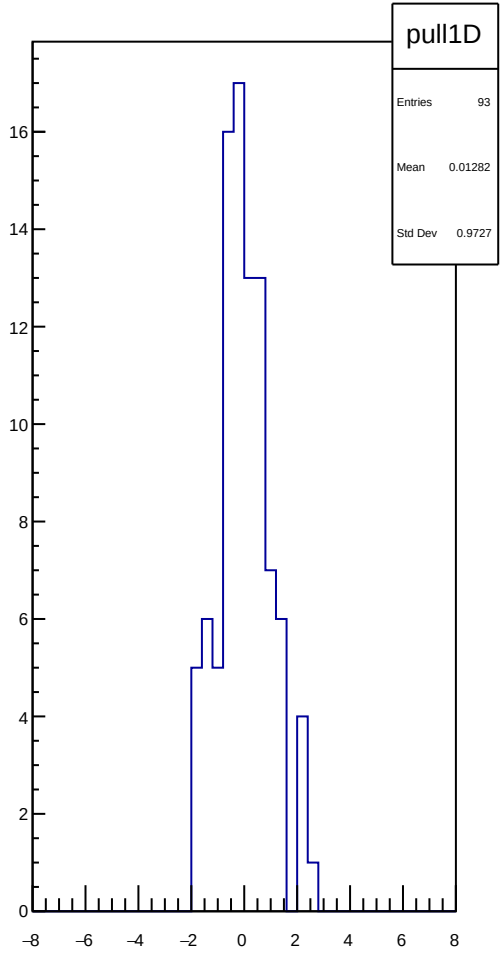

pull1D
Entries 93
Mean 0.01282
Std Dev 0.9727
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

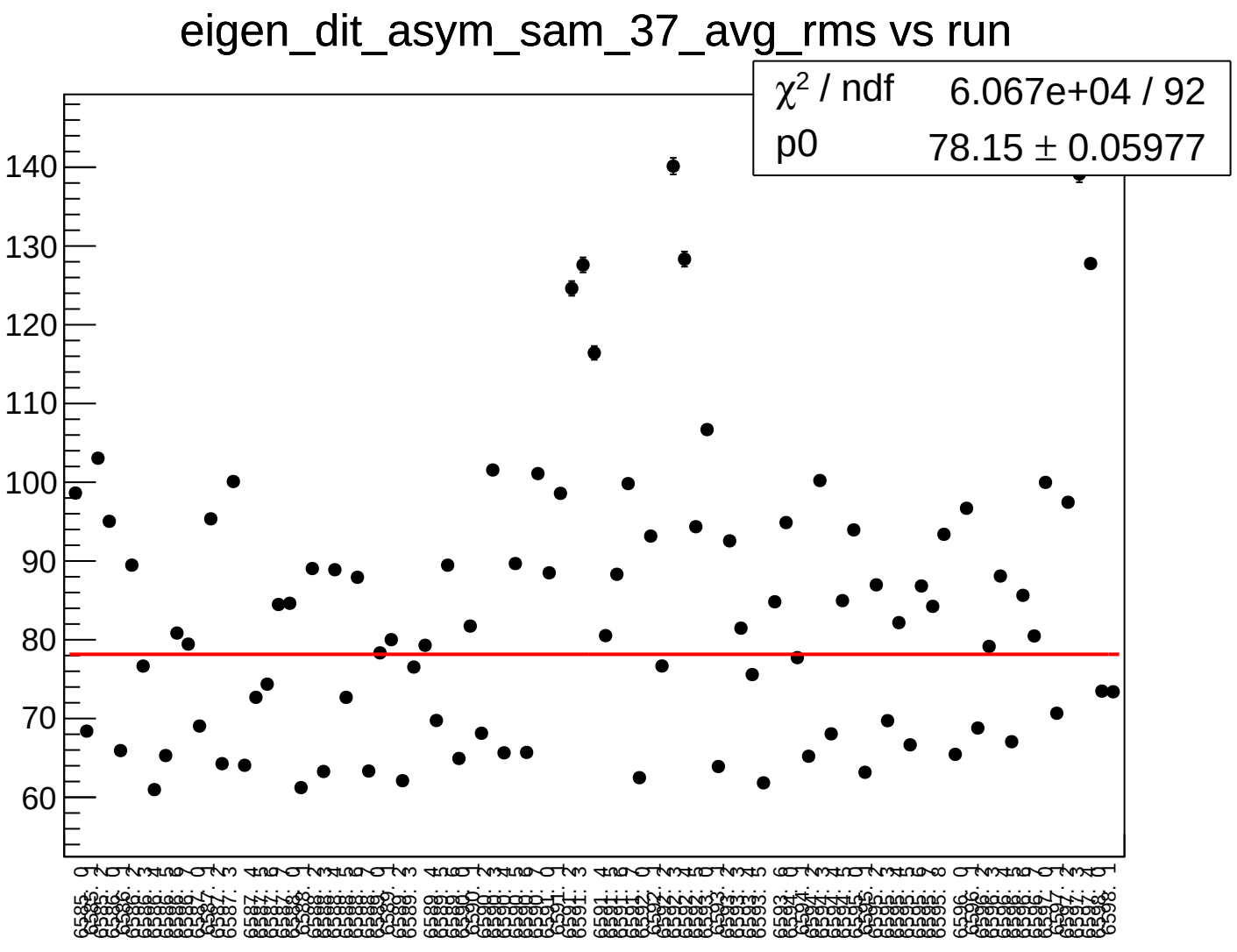

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 6.067e+04 / 92
p0 78.15 ± 0.05977
140
130
120
110
100
90
80
70
60

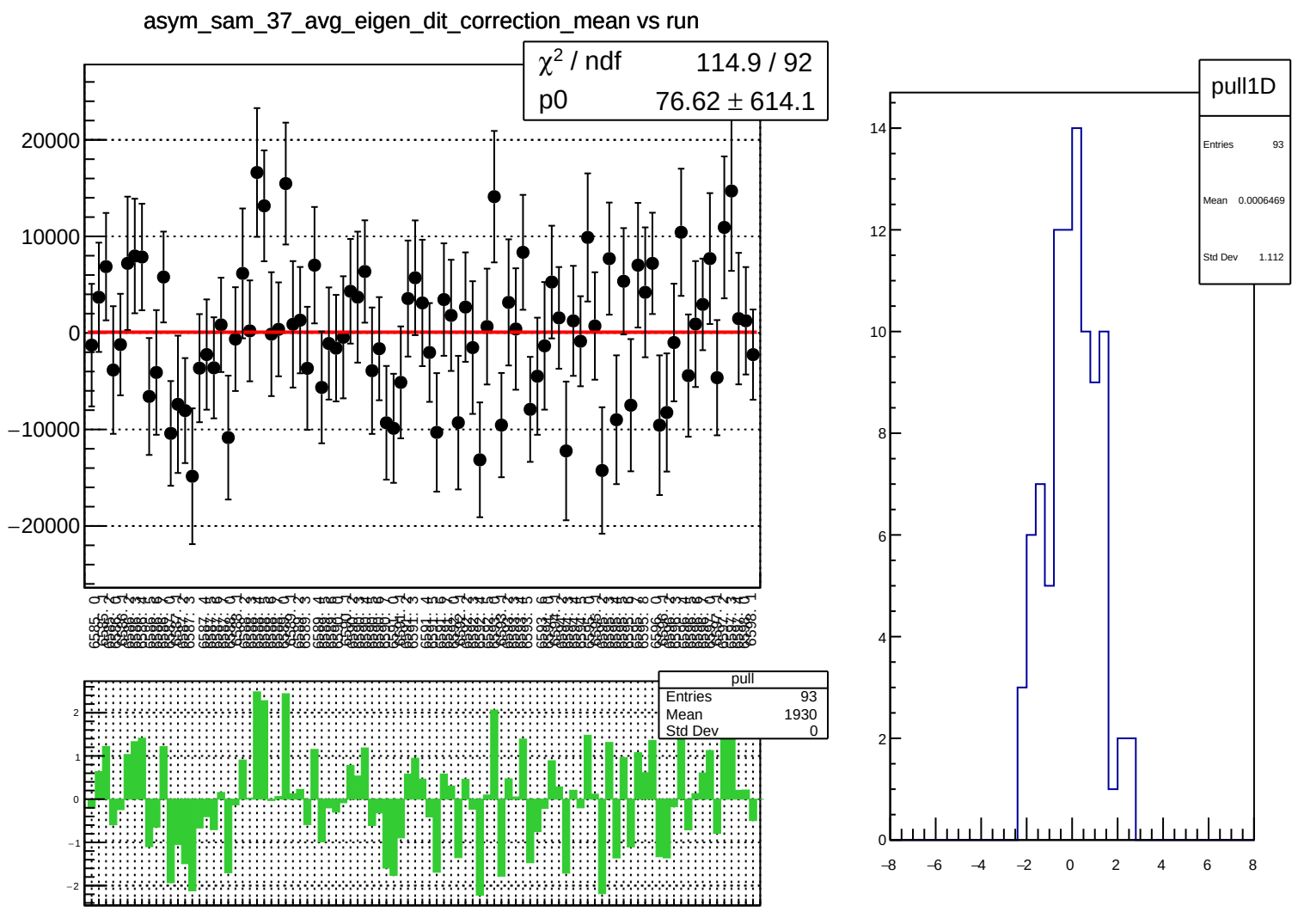

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 114.9 / 92
p0 76.62 ± 614.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 1930
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0006469
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

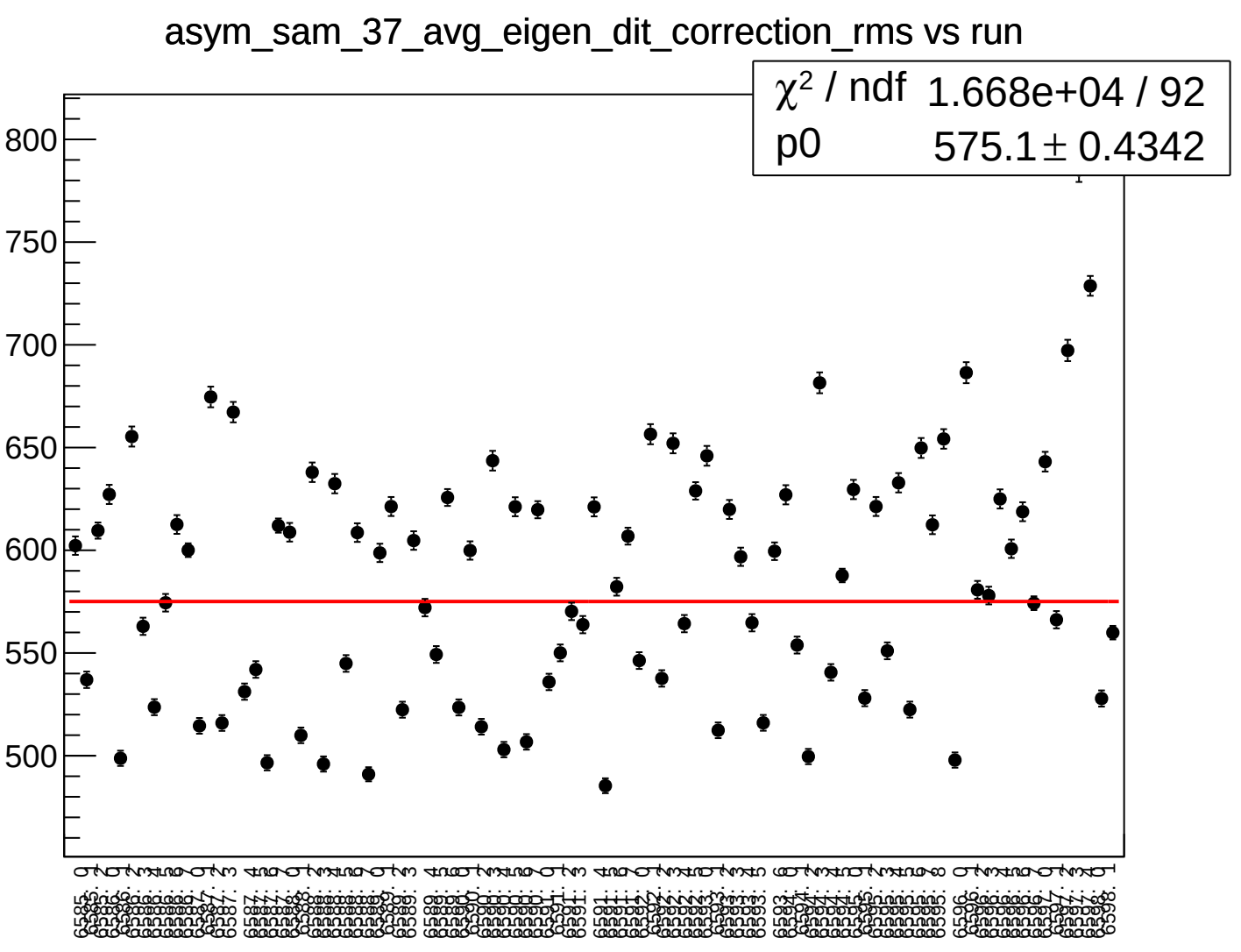

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.668e+04 / 92
p0 575.1 ± 0.4342
800
750
700
650
600
550
500

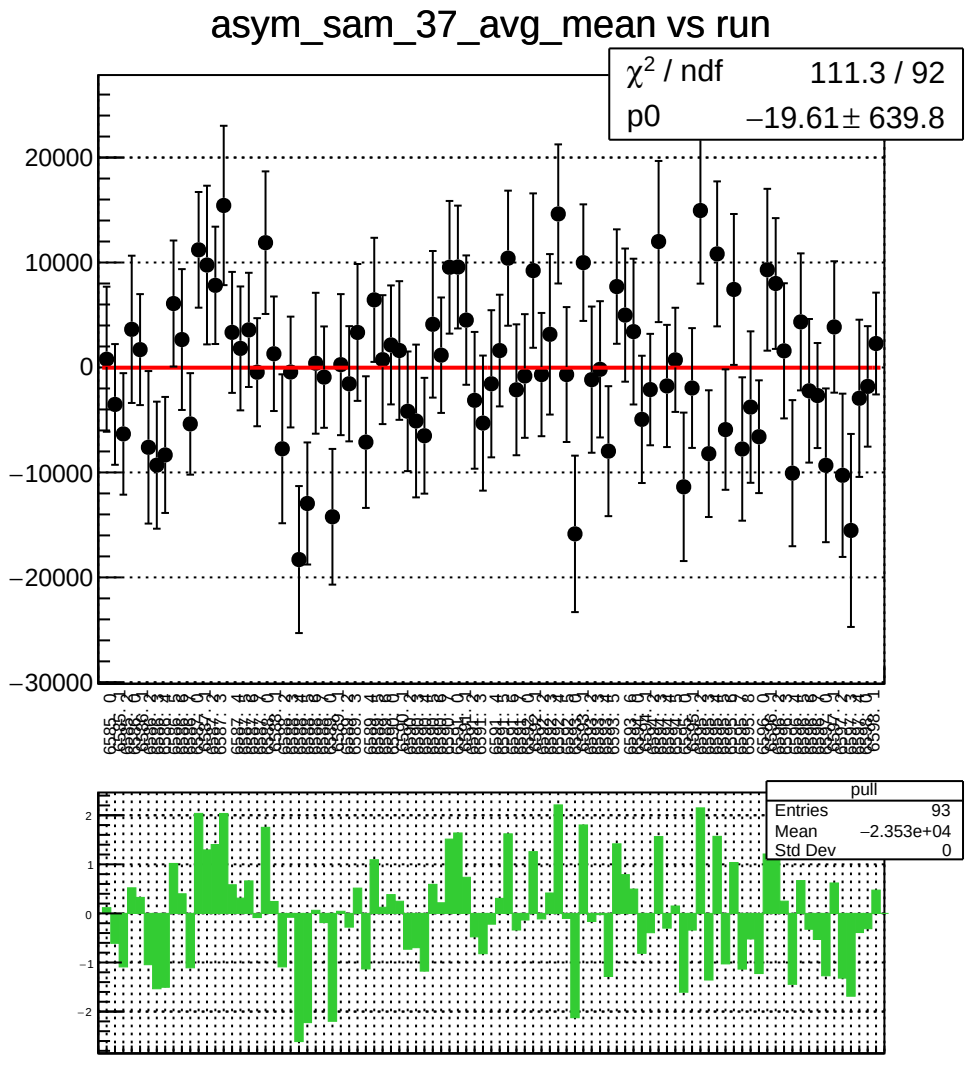

eigen_dit_asym_sam_37_avg_mean vs run
χ^2 / ndf 88.01 / 92
p0 36.86 ± 84.53
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −75.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

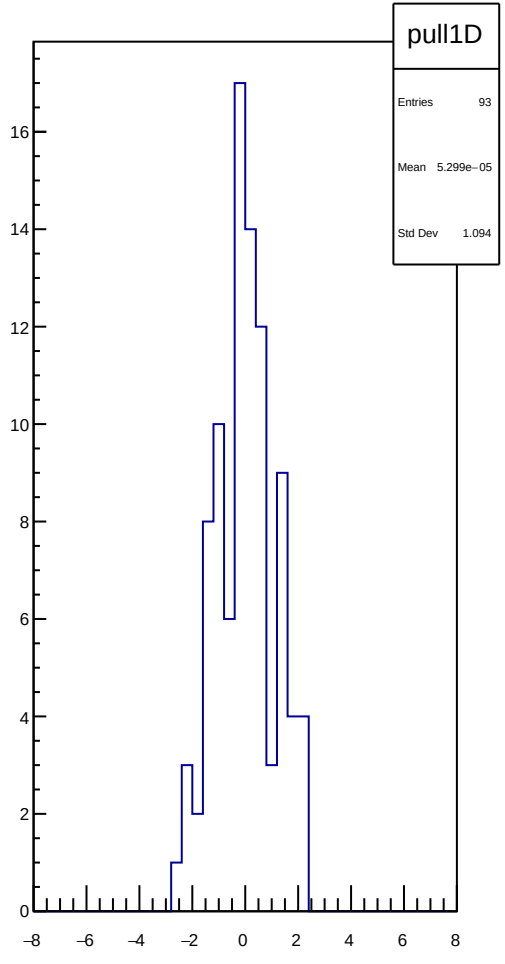

pull1D
Entries 93
Mean 0.01282
Std Dev 0.9727
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

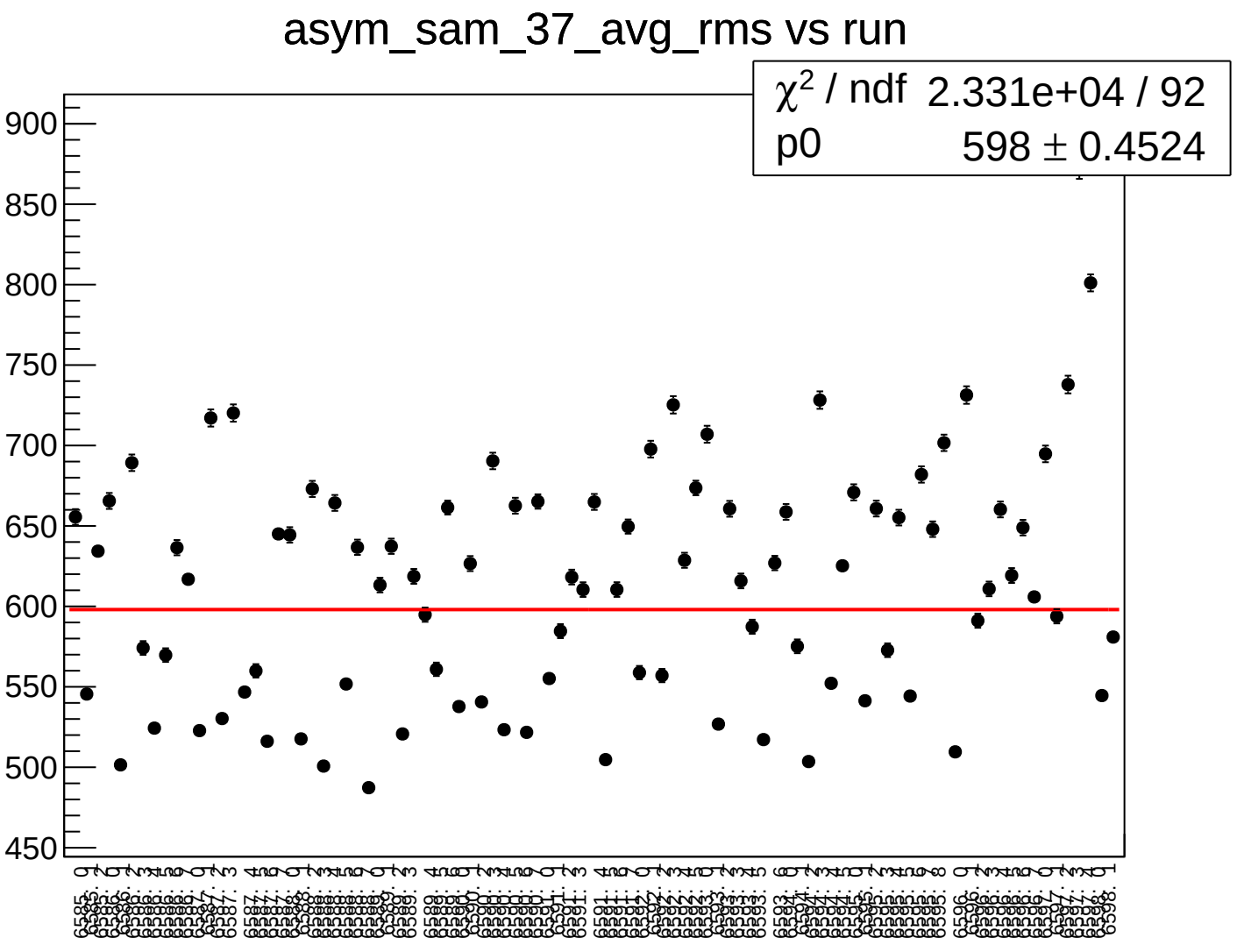

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 6.067e+04 / 92
p0 78.15 ± 0.05977
140
130
120
110
100
90
80
70
60

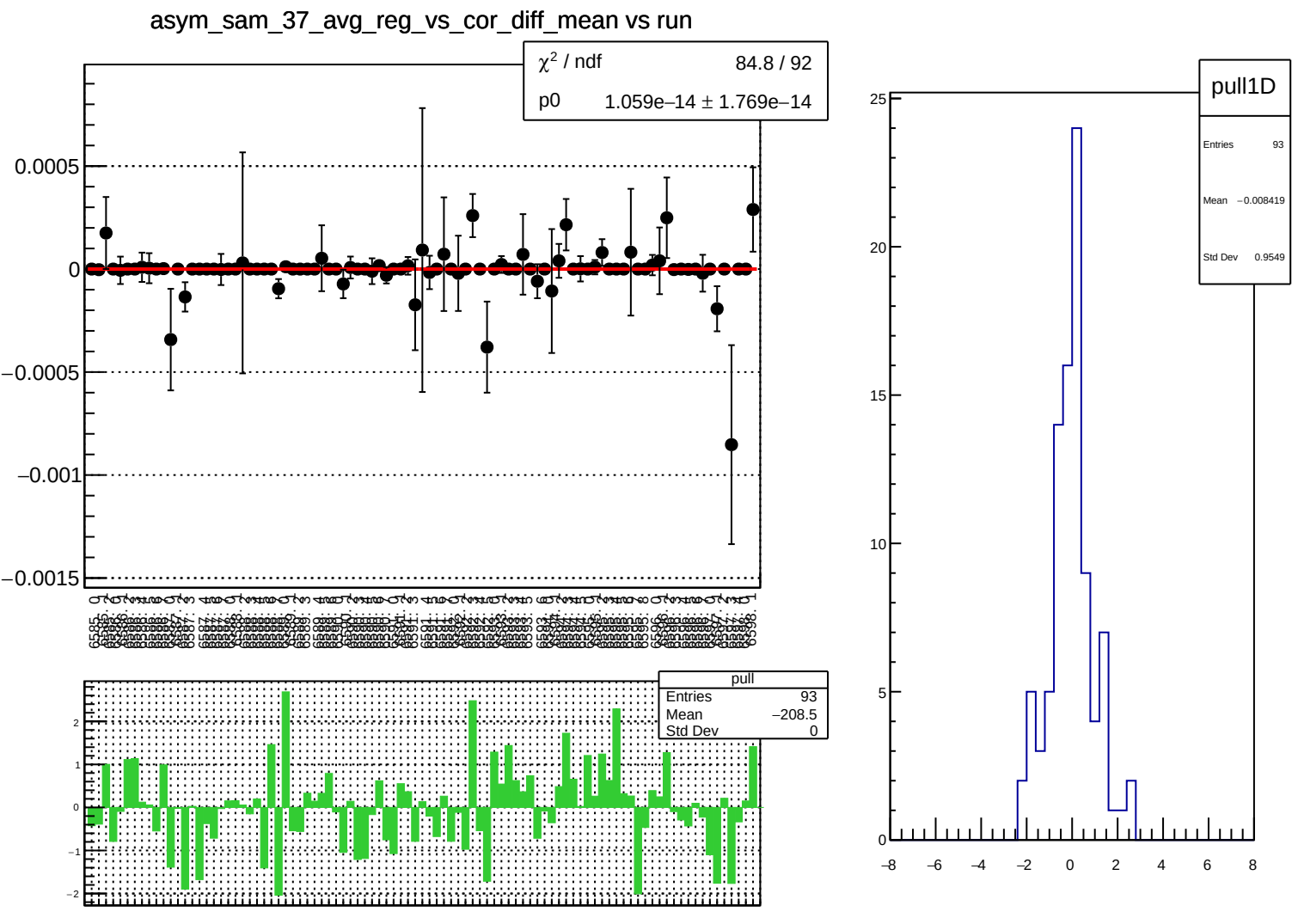

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.9 / 92
p0 76.62 ± 614.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 1930
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0006469
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

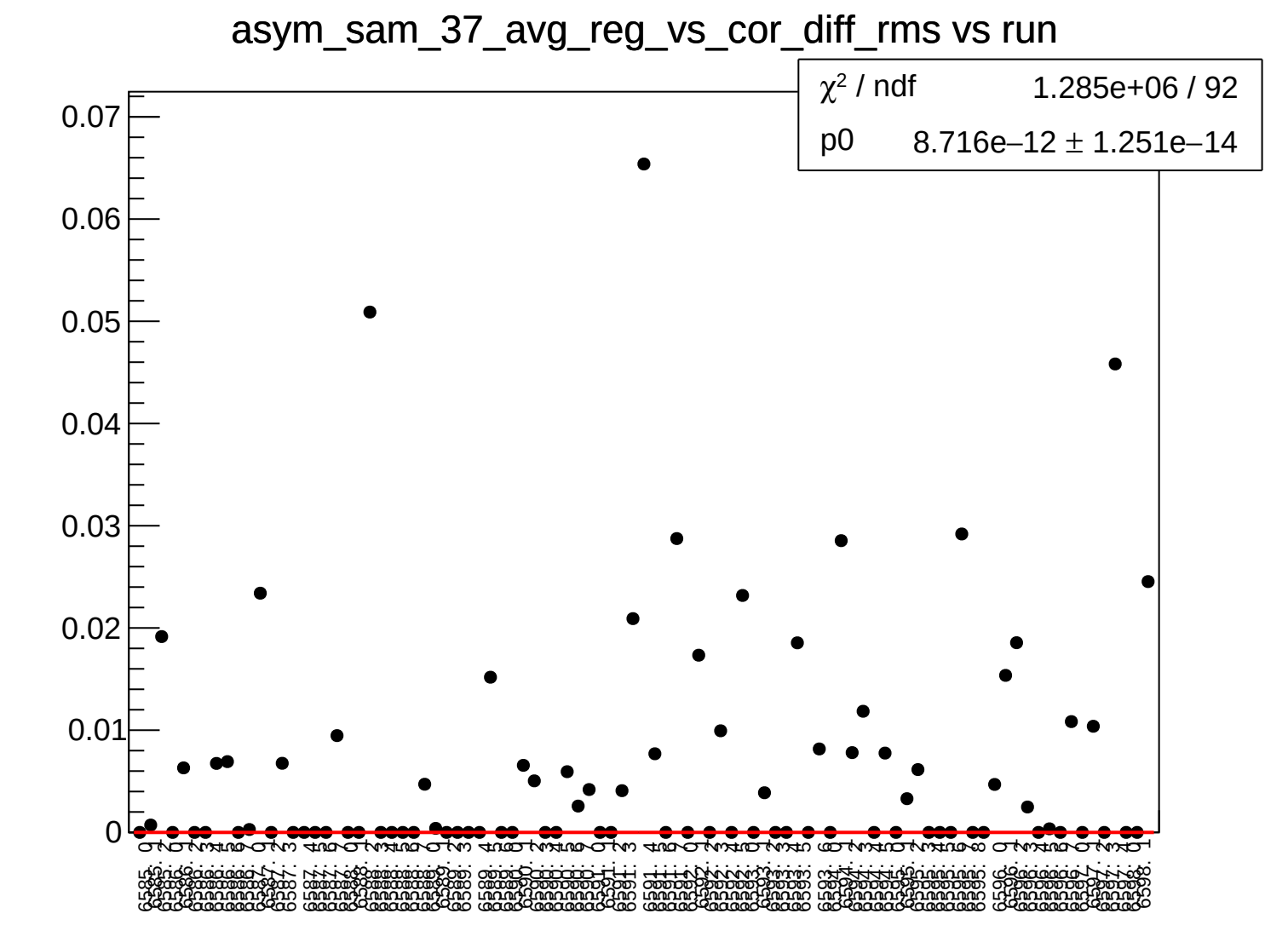

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.668e+04 / 92
p0 575.1 ± 0.4342
800
750
700
650
600
550
500

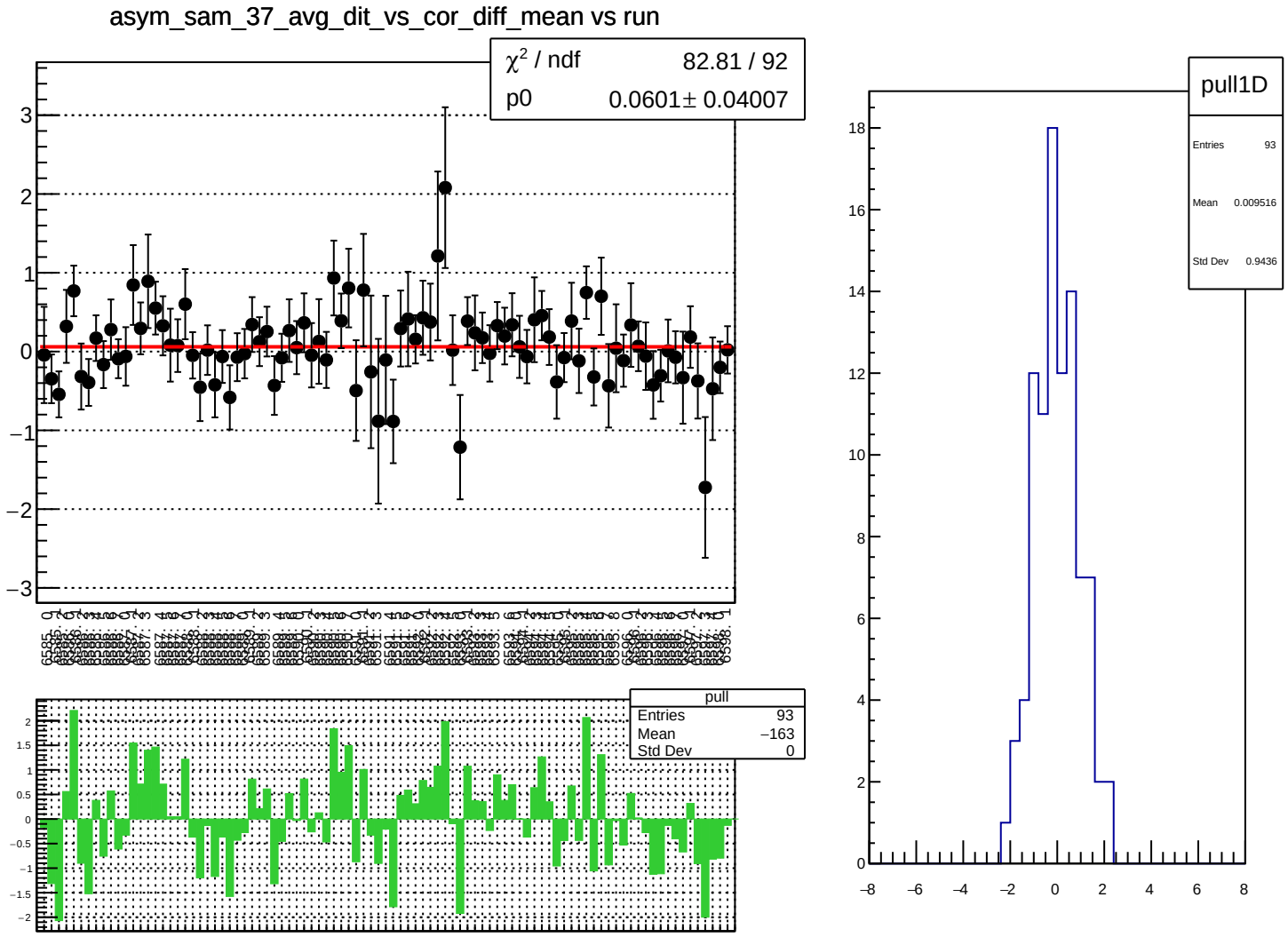

asym_sam_37_avg_mean vs run
χ² / ndf 111.3 / 92
p0 −19.61 ± 639.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −2.353e+04
Std Dev 0
2
1
0
−1
−2

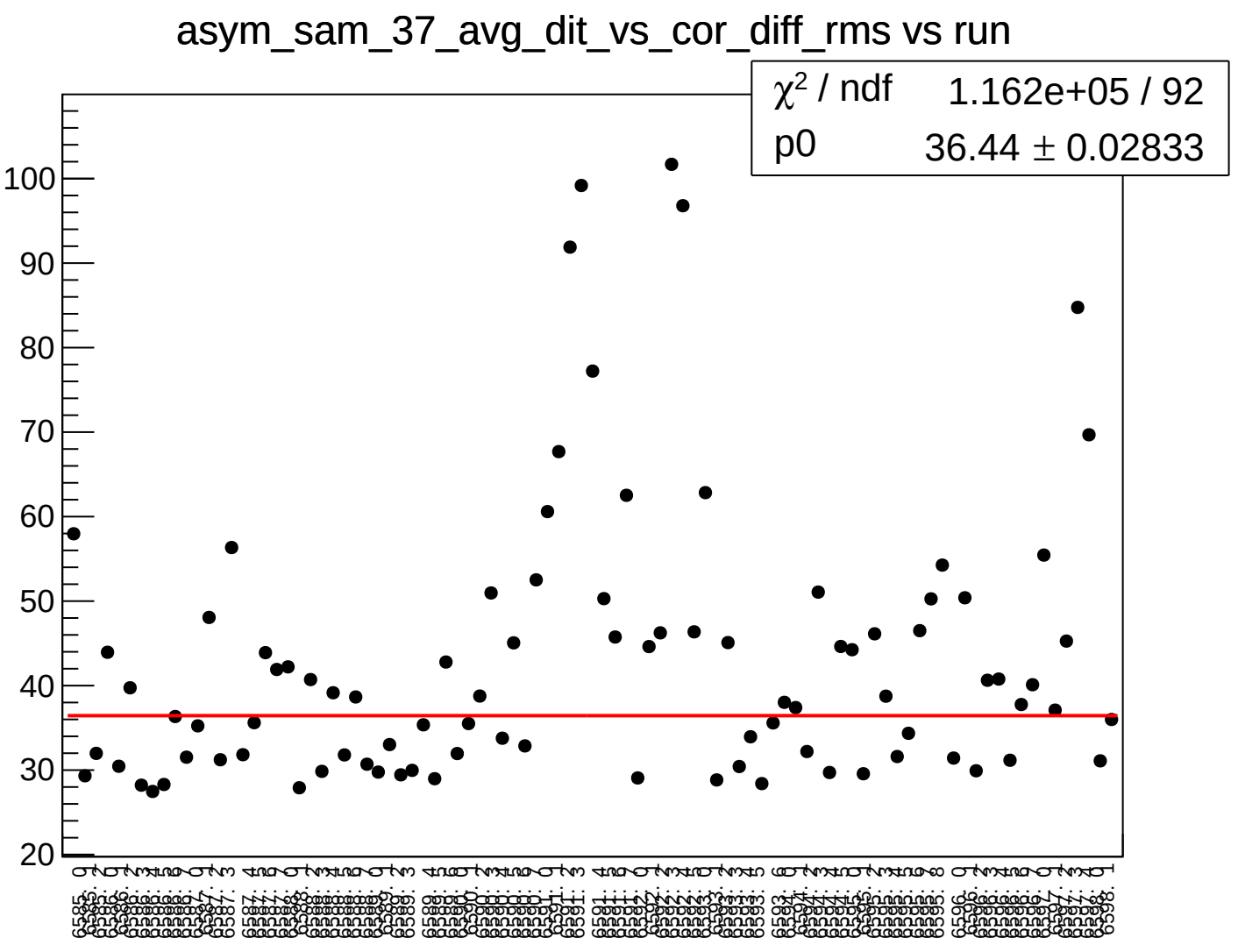

pull1D
Entries 93
Mean 5.299e−05
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

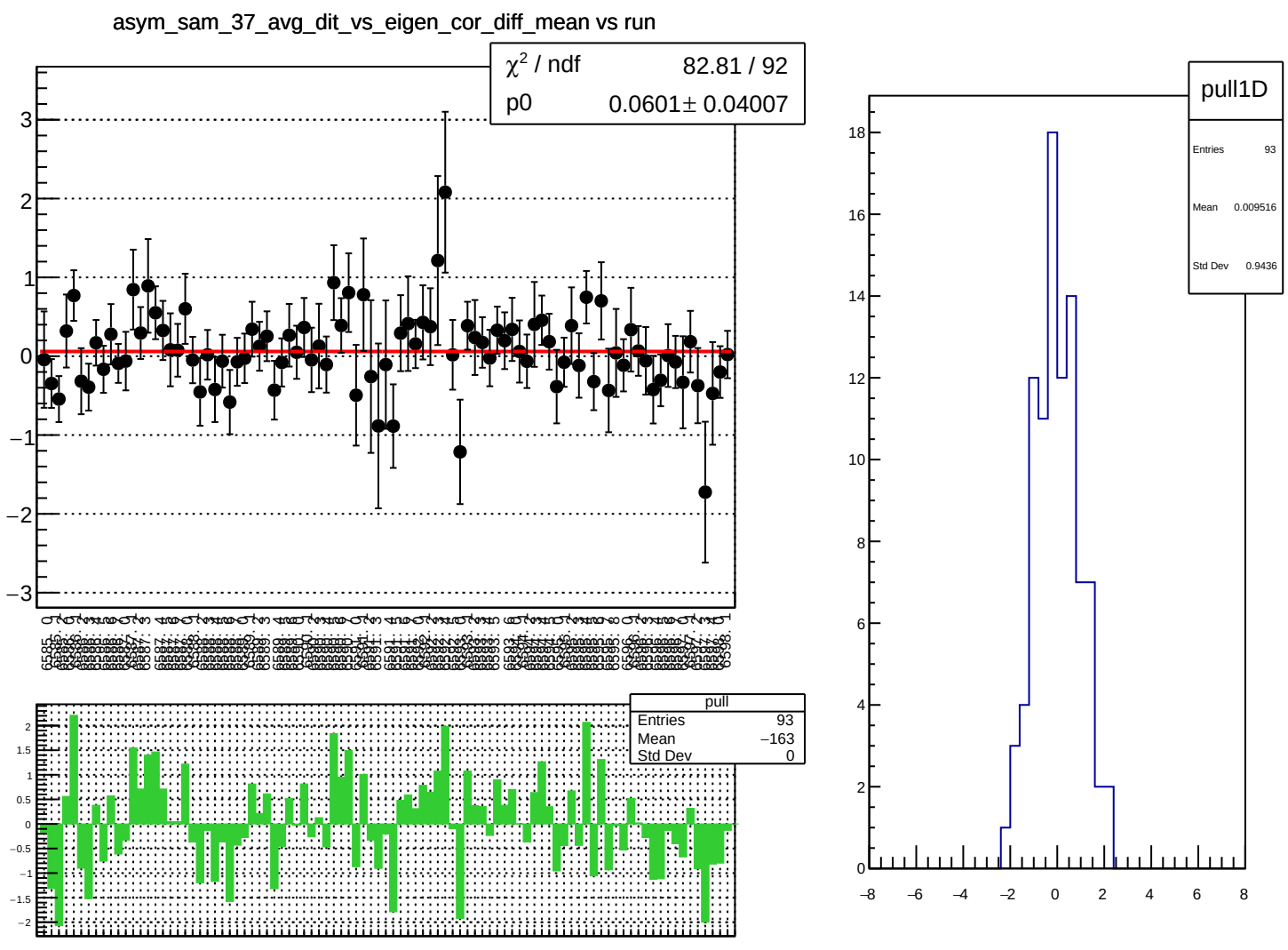

asym_sam_37_avg_rms vs run
χ^2 / ndf 2.331e+04 / 92
p0 598 ± 0.4524
900
850
800
750
700
650
600
550
500
450

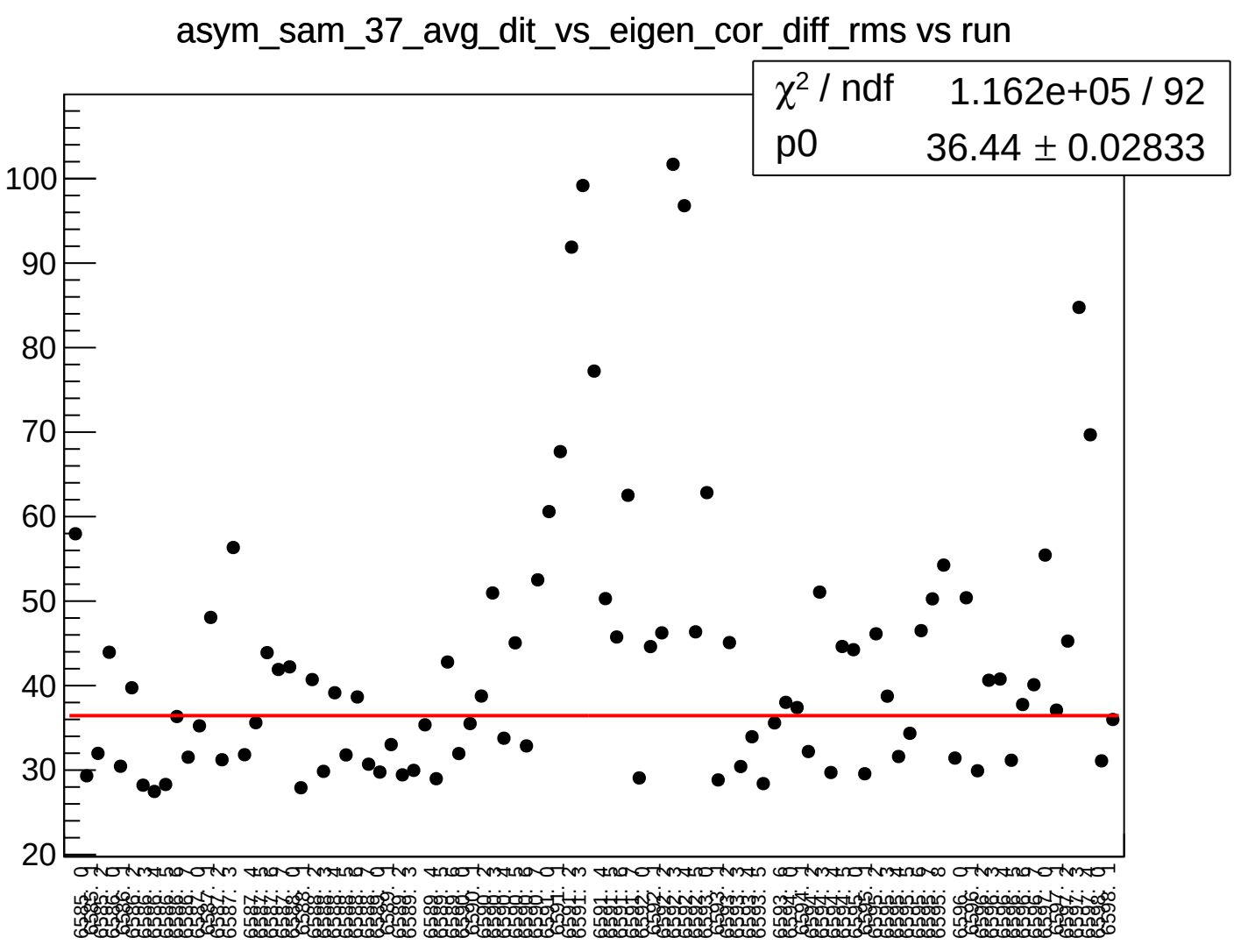

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.8 / 92
p0 1.059e−14 ± 1.769e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean −208.5
Std Dev 0
pull1D
Entries 93
Mean −0.008419
Std Dev 0.9549

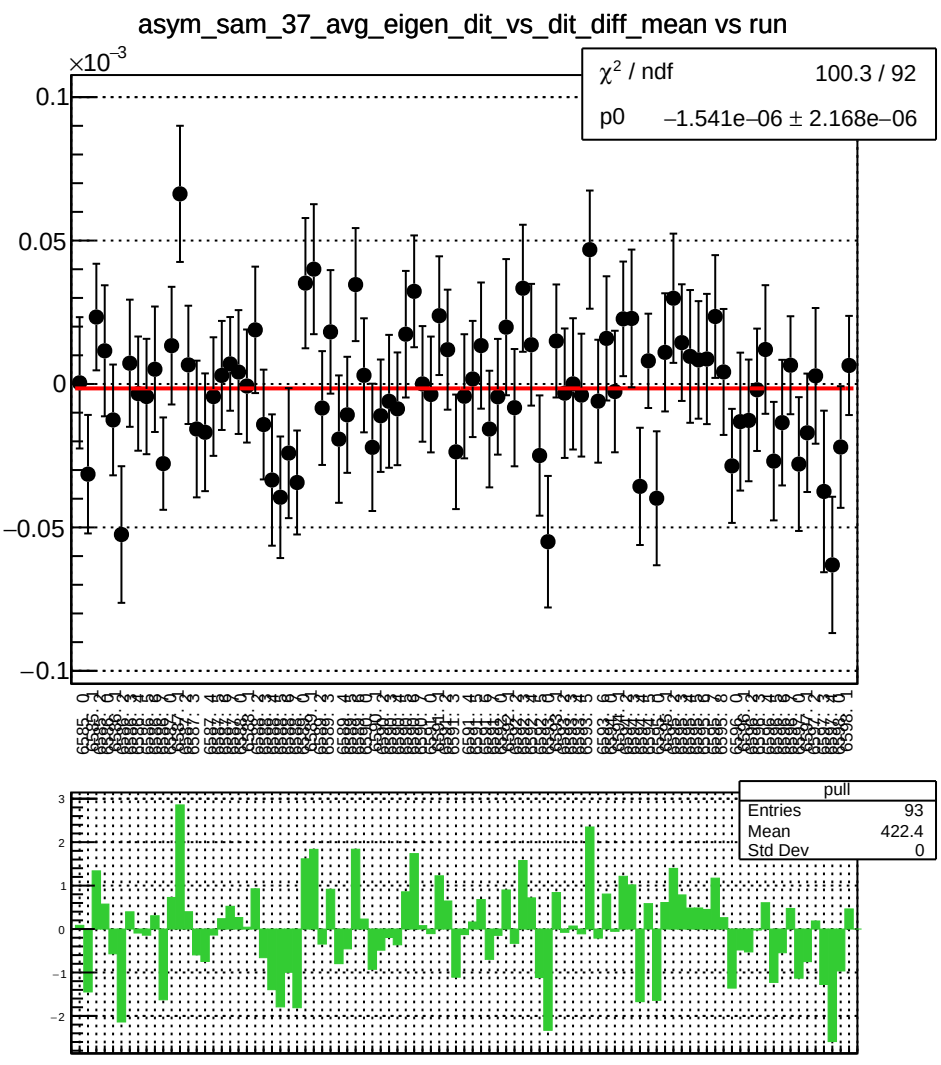

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.285e+06 / 92
p0 8.716e−12 ± 1.251e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

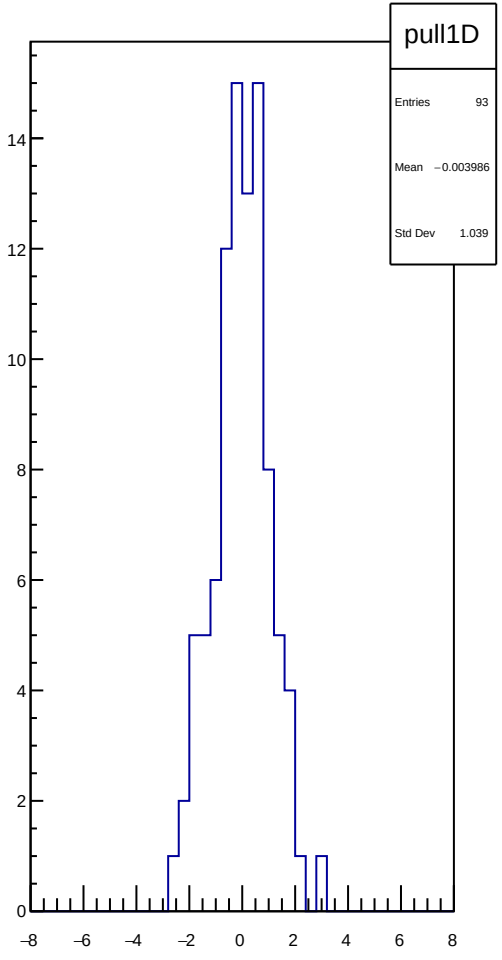

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.81 / 92
p0 0.0601± 0.04007
pull
Entries 93
Mean −163
Std Dev 0
pull1D
Entries 93
Mean 0.009516
Std Dev 0.9436

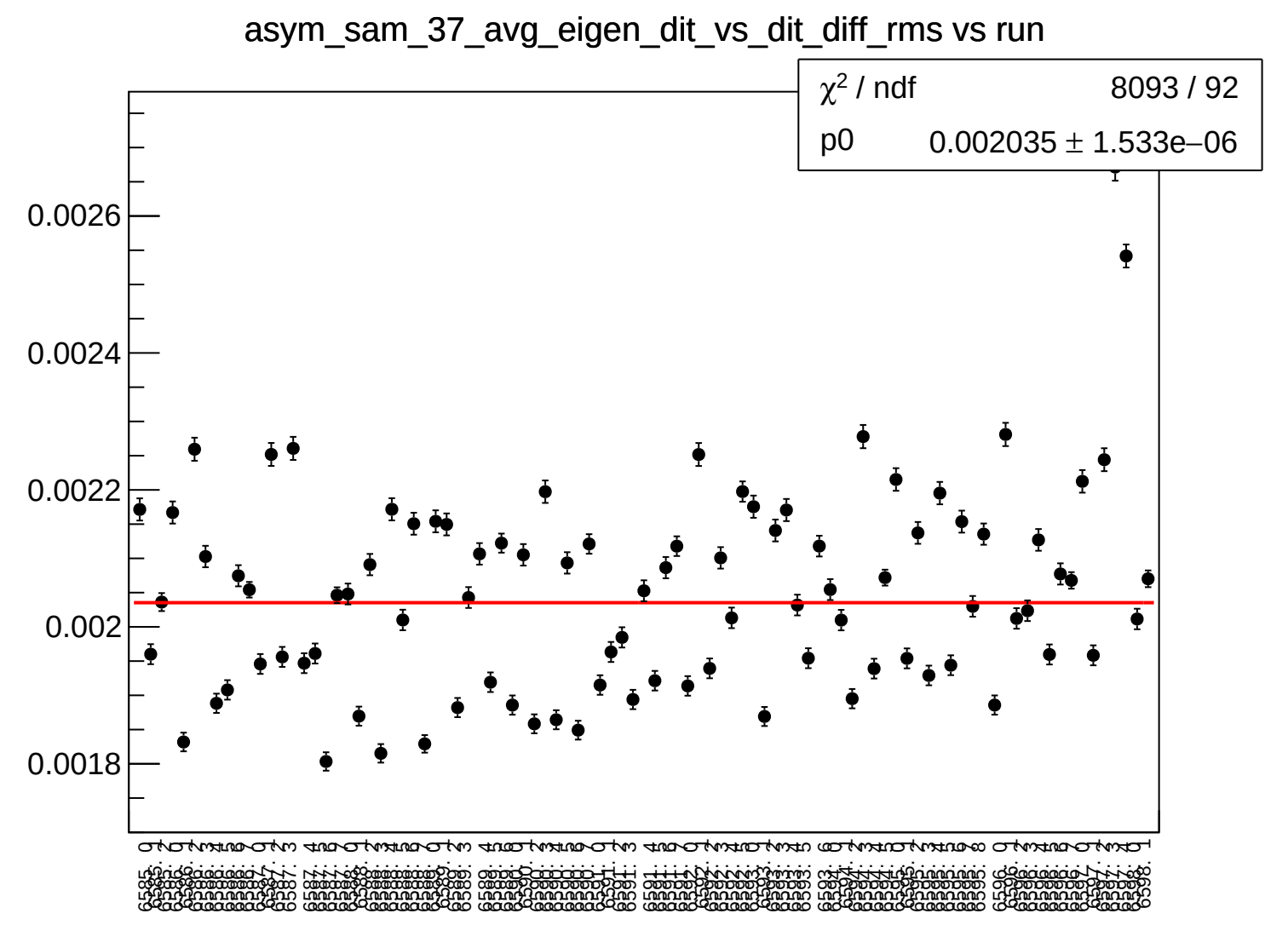

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.162e+05 / 92
p0 36.44 ± 0.02833
100
90
80
70
60
50
40
30
20

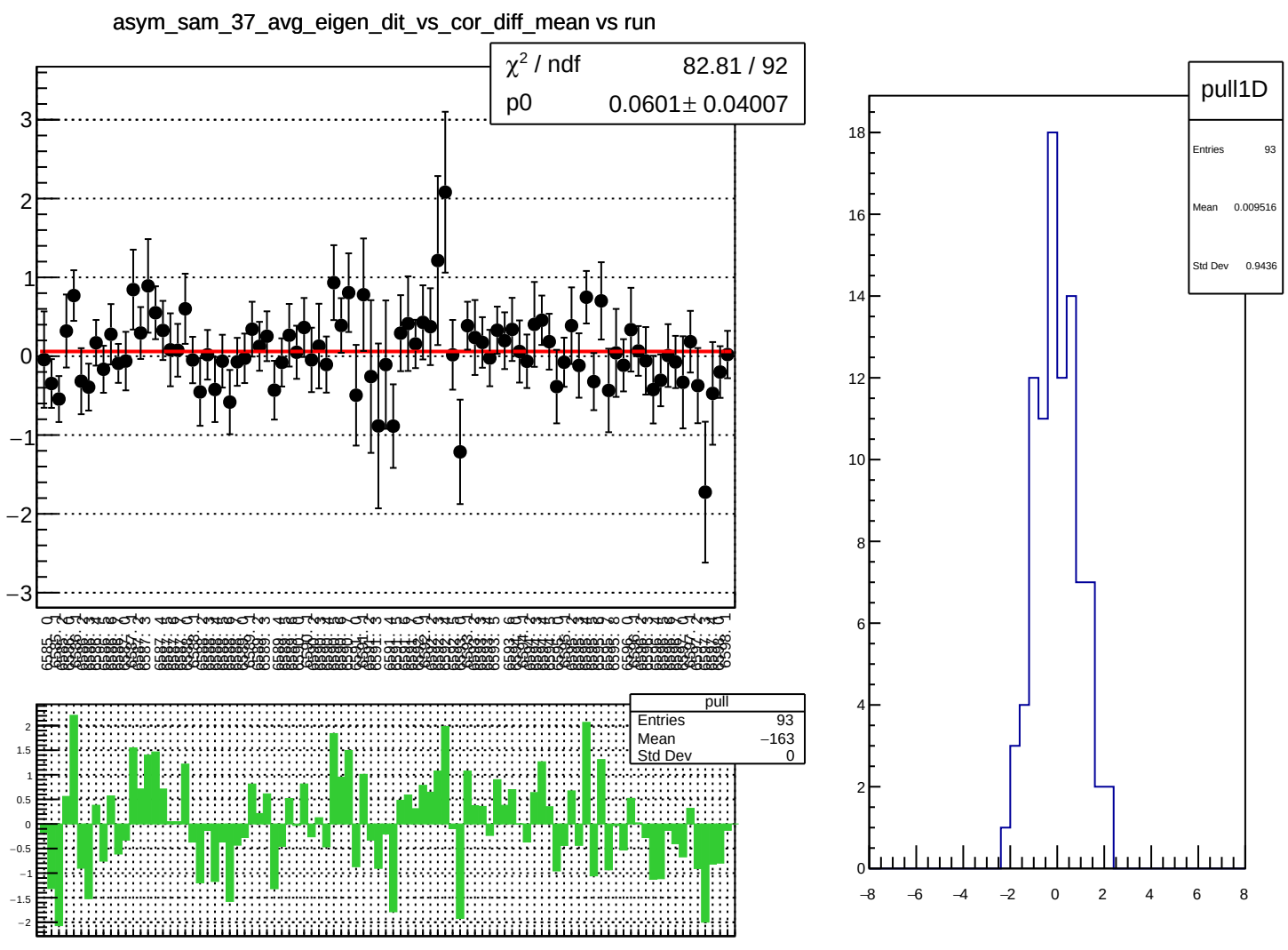

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.81 / 92
p0 0.0601± 0.04007
pull
Entries 93
Mean −163
Std Dev 0
pull1D
Entries 93
Mean 0.009516
Std Dev 0.9436

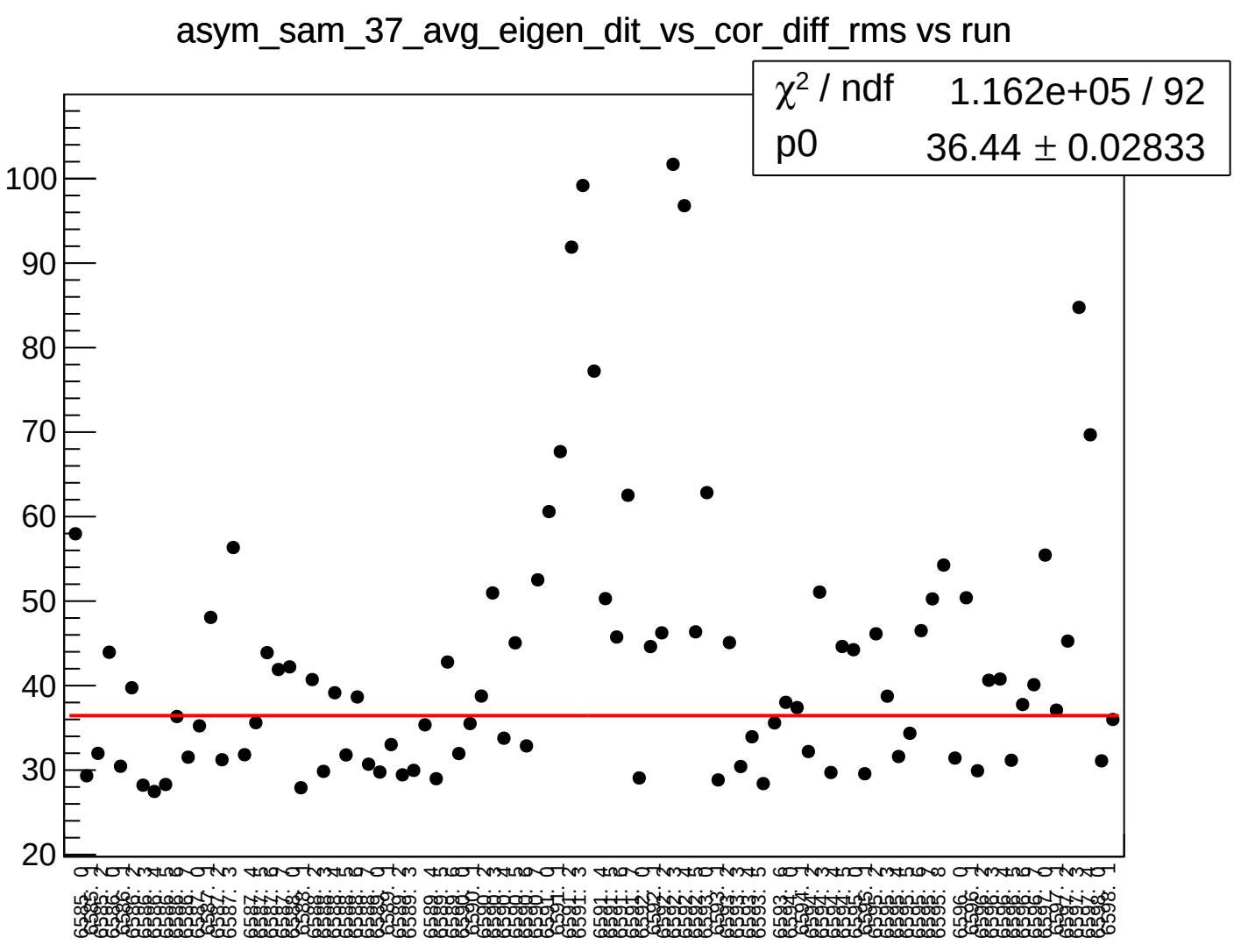

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.162e+05 / 92
p0 36.44 ± 0.02833
100
90
80
70
60
50
40
30
20

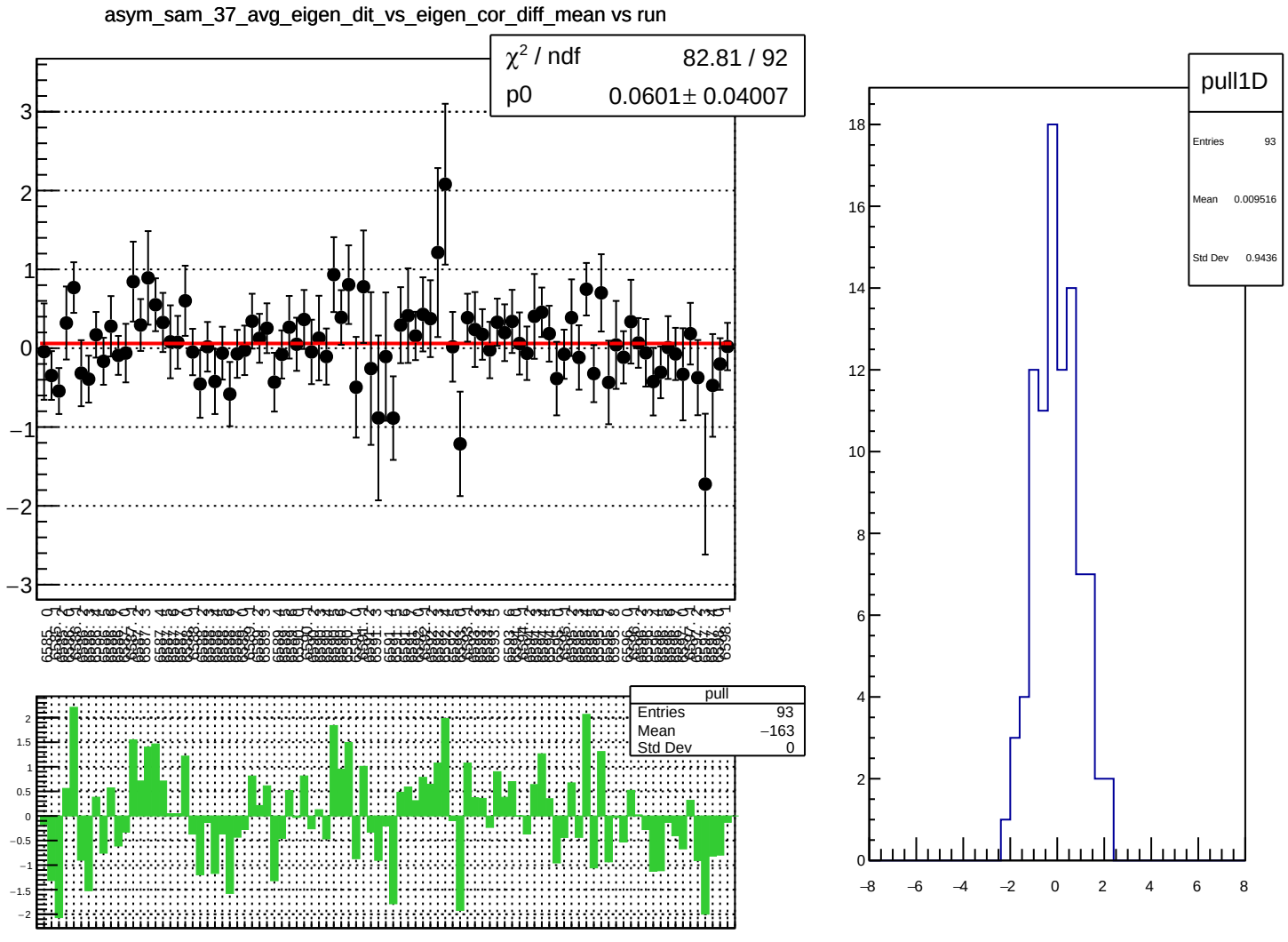

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.3 / 92
p0 −1.541e−06 ± 2.168e−06
pull
Entries 93
Mean 422.4
Std Dev 0

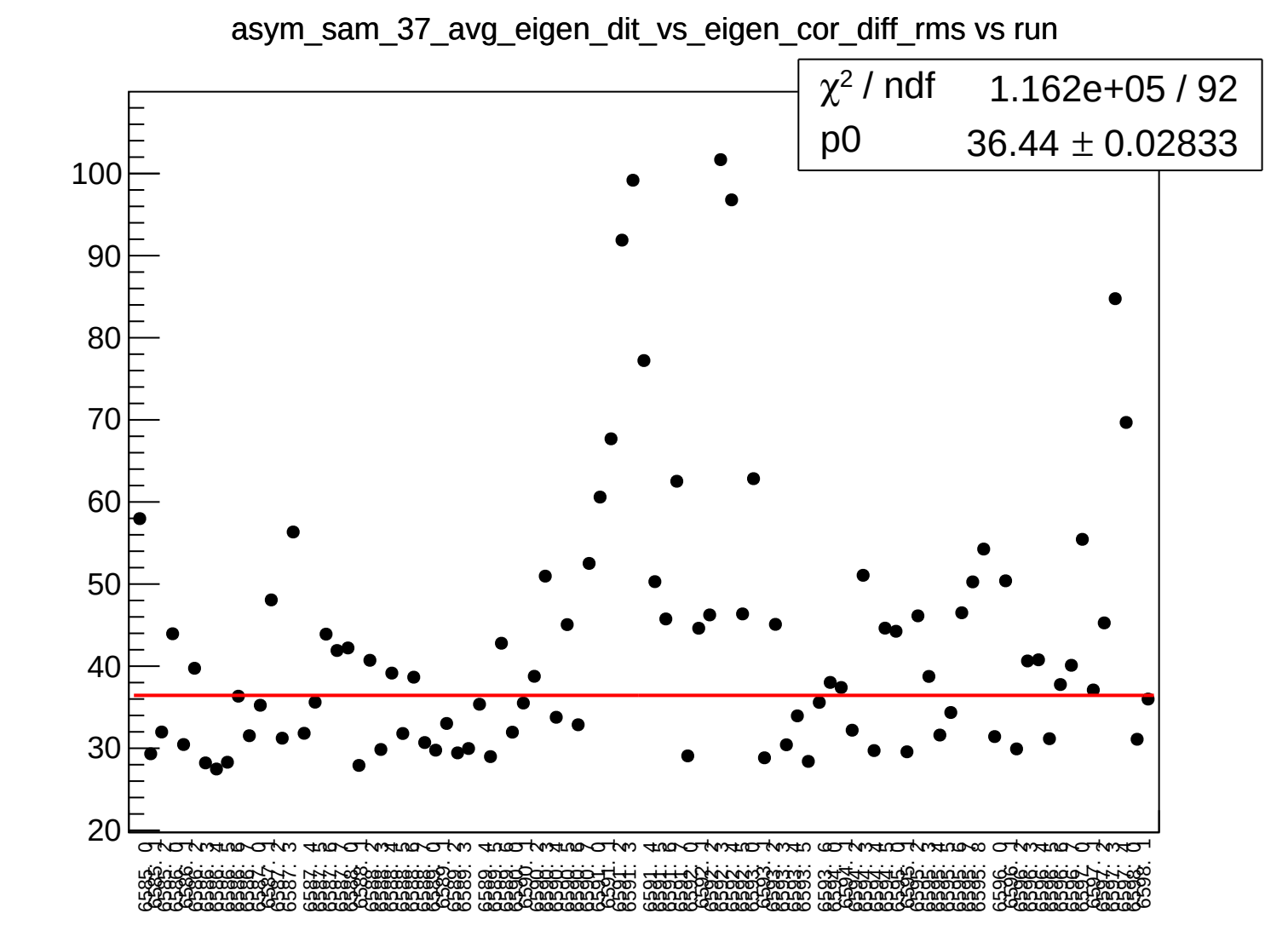

pull1D
Entries 93
Mean −0.003986
Std Dev 1.039

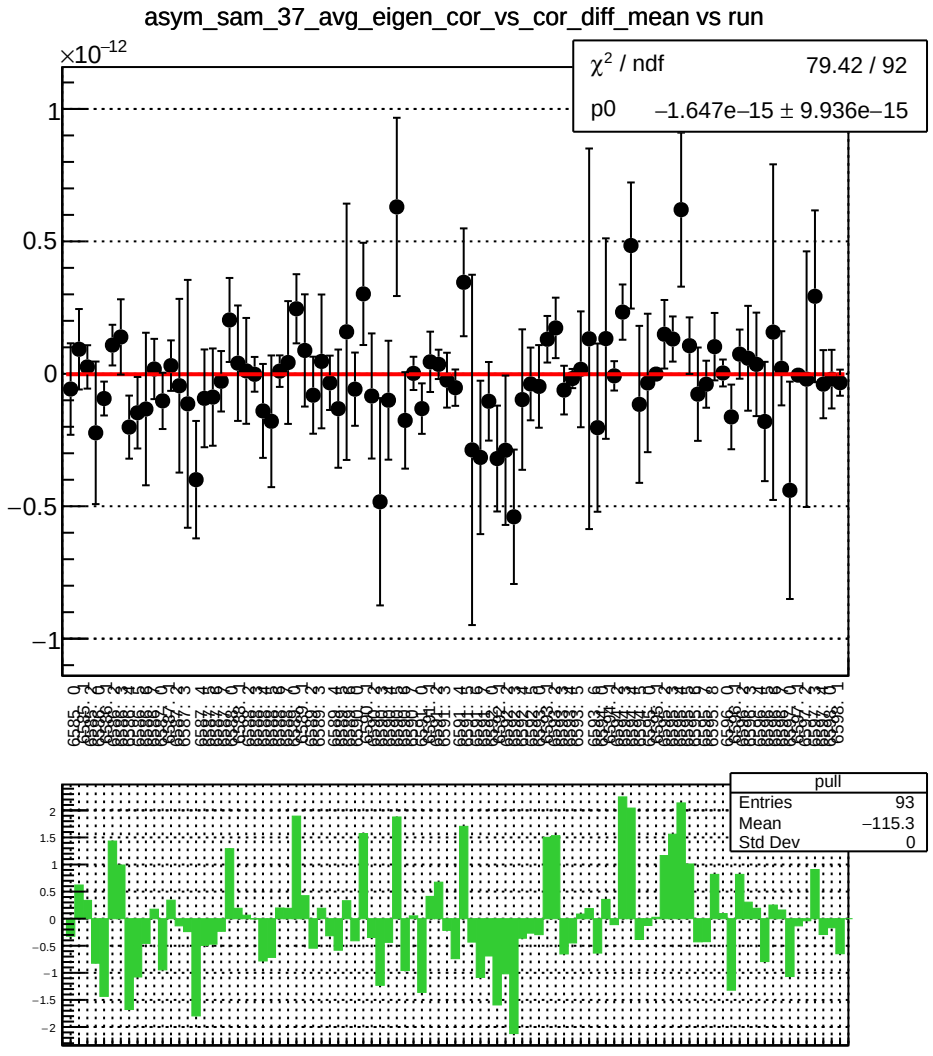

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8093 / 92
p0 0.002035 ± 1.533e−06
0.0026
0.0024
0.0022
0.002
0.0018

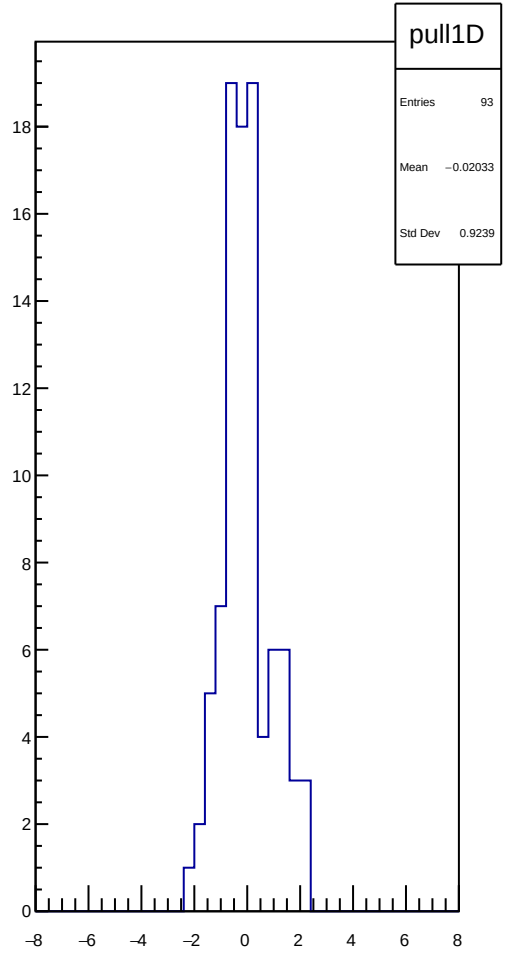

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.81 / 92
p0 0.0601± 0.04007
pull
Entries 93
Mean −163
Std Dev 0
pull1D
Entries 93
Mean 0.009516
Std Dev 0.9436

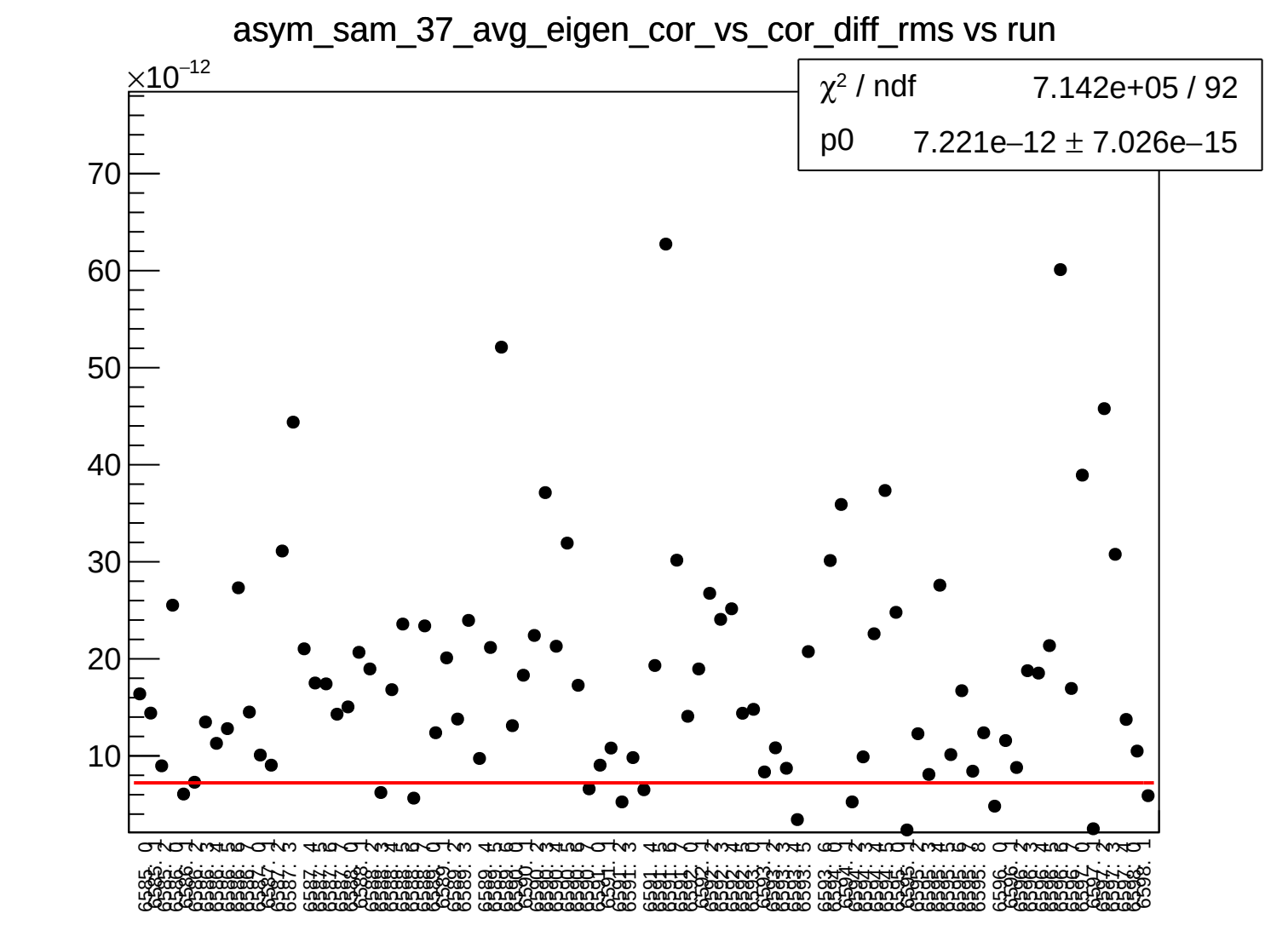

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.162e+05 / 92
p0 36.44 ± 0.02833
100
90
80
70
60
50
40
30
20

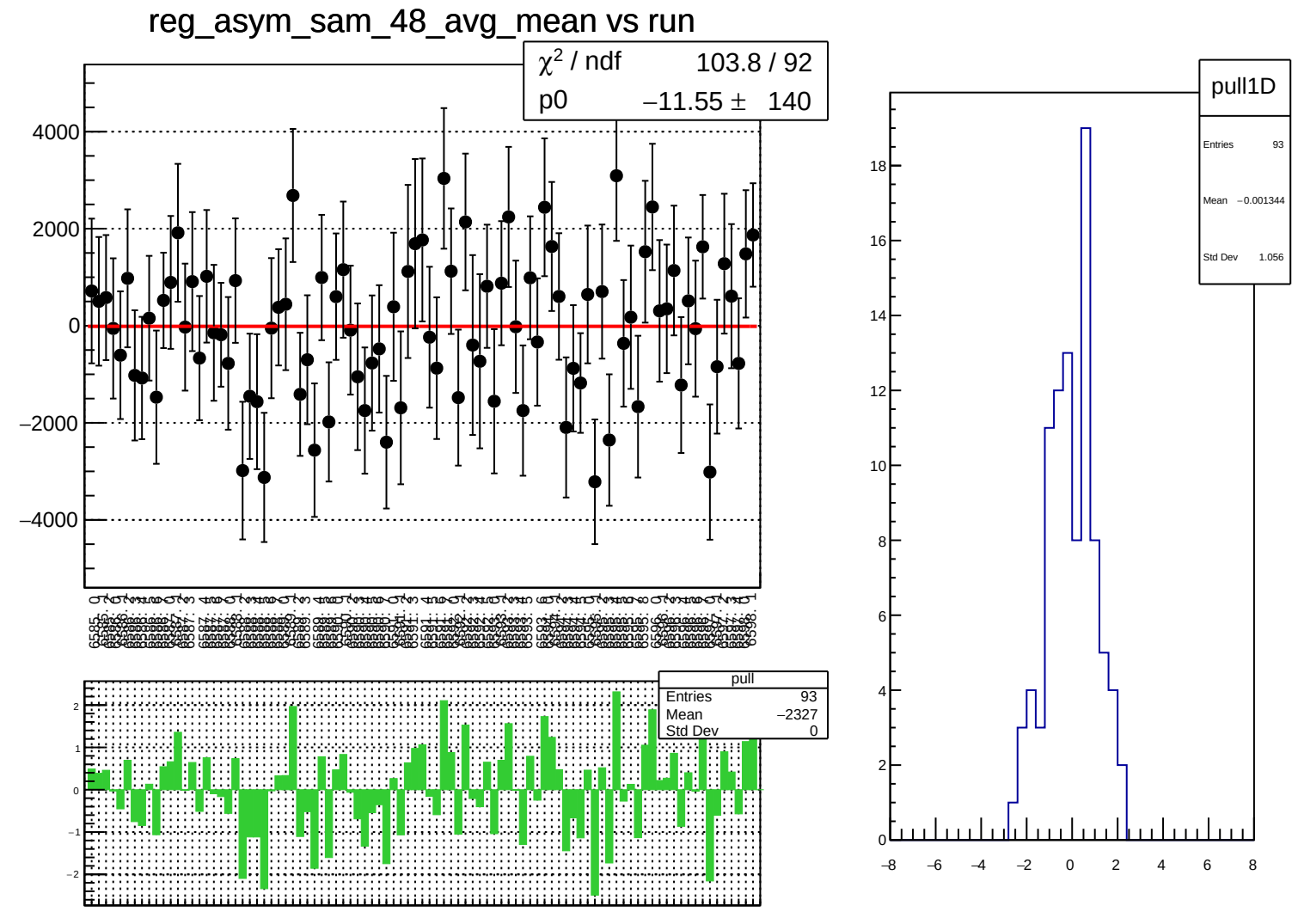

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.81 / 92
p0 0.0601± 0.04007
pull
Entries 93
Mean −163
Std Dev 0
pull1D
Entries 93
Mean 0.009516
Std Dev 0.9436

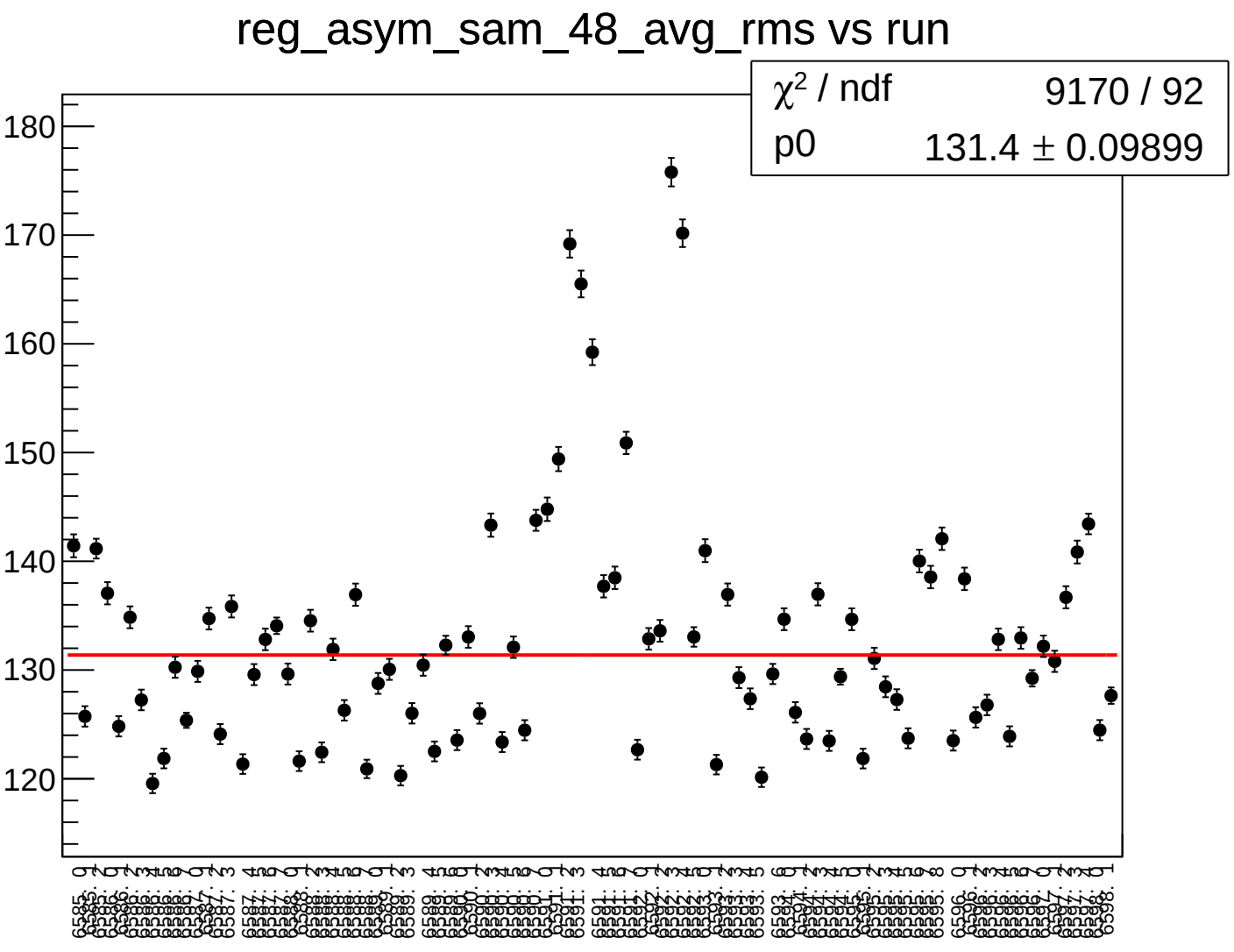

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.162e+05 / 92
p0 36.44 ± 0.02833
100
90
80
70
60
50
40
30
20

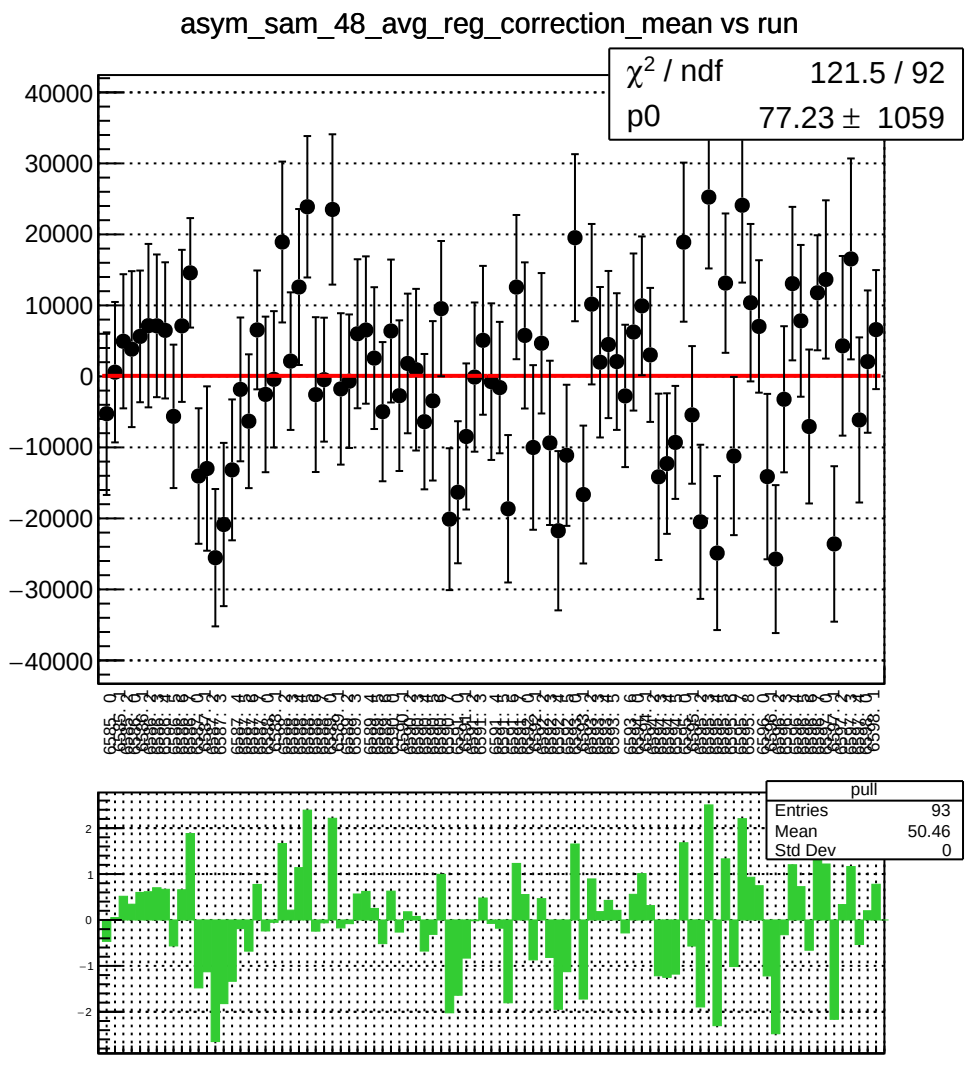

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.42 / 92
p0 −1.647e−15 ± 9.936e−15
pull
Entries 93
Mean −115.3
Std Dev 0

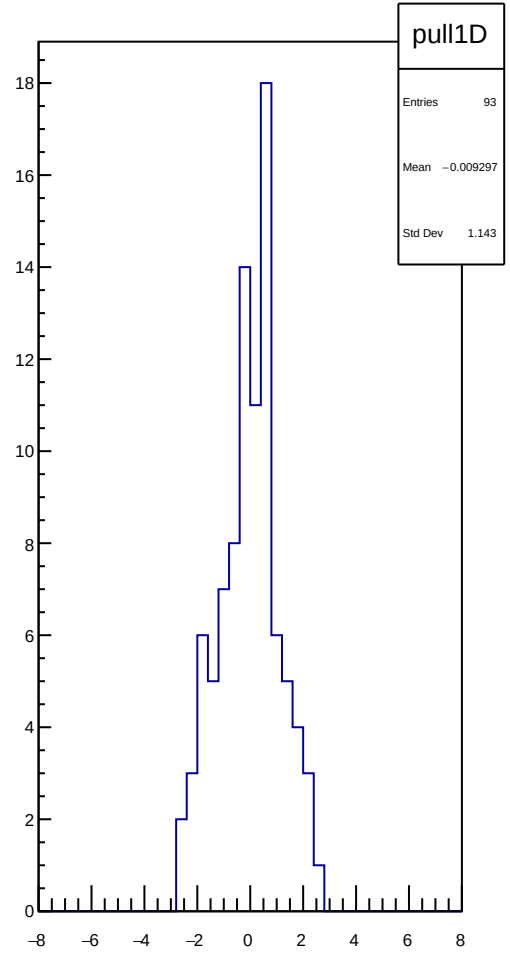

pull1D
Entries 93
Mean −0.02033
Std Dev 0.9239

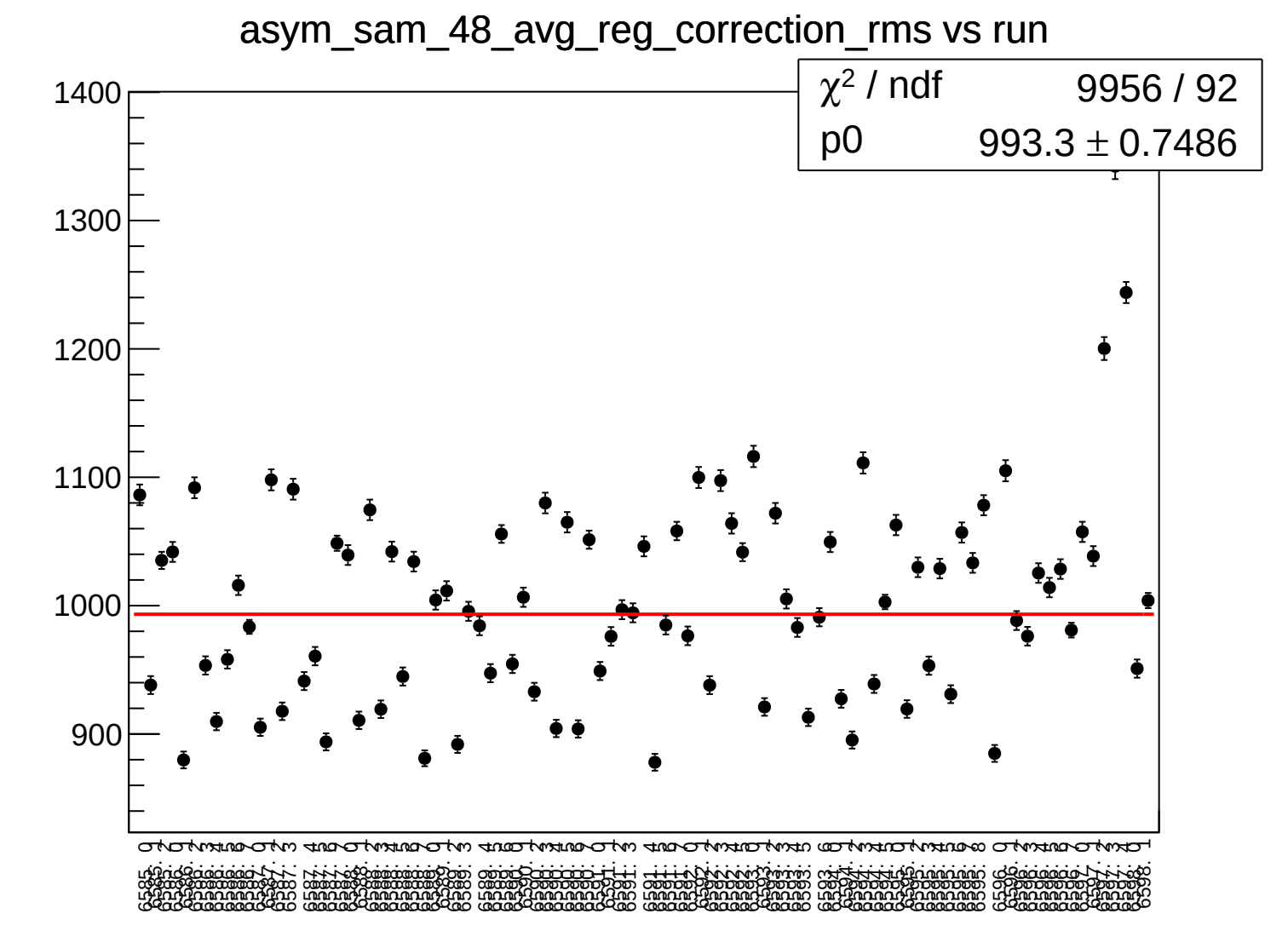

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.142e+05 / 92
p0 7.221e−12 ± 7.026e−15
70
60
50
40
30
20
10

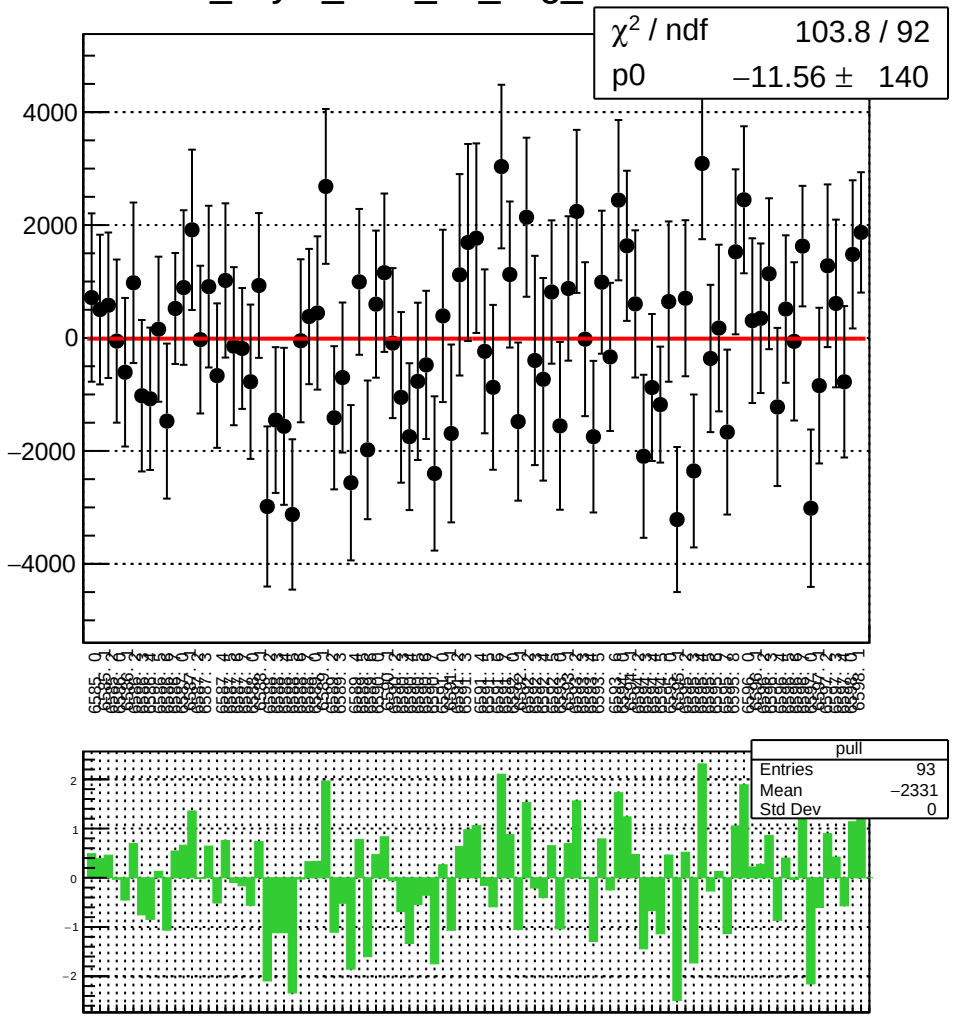

reg_asym_sam_48_avg_mean vs run
χ² / ndf 103.8 / 92
p0 −11.55 ± 140
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −2327
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001344
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

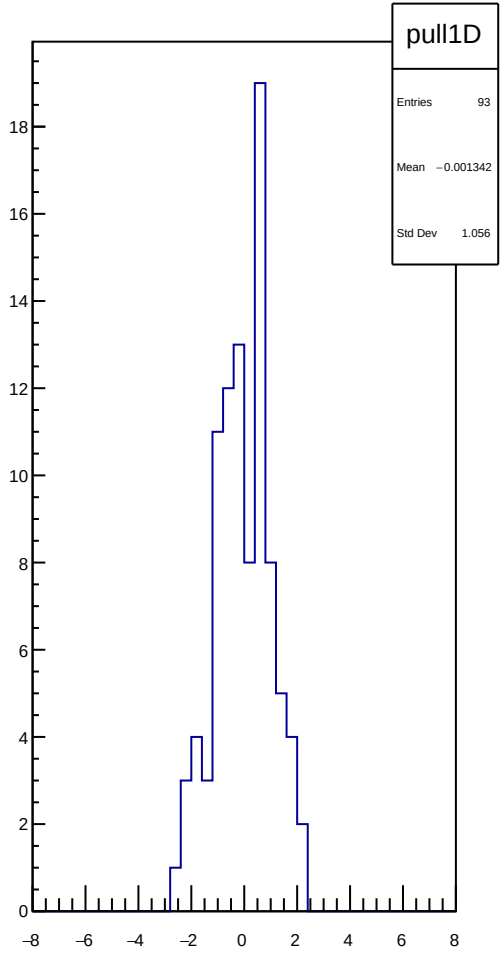

reg_asym_sam_48_avg_rms vs run
χ² / ndf 9170 / 92
p0 131.4 ± 0.09899
180
170
160
150
140
130
120

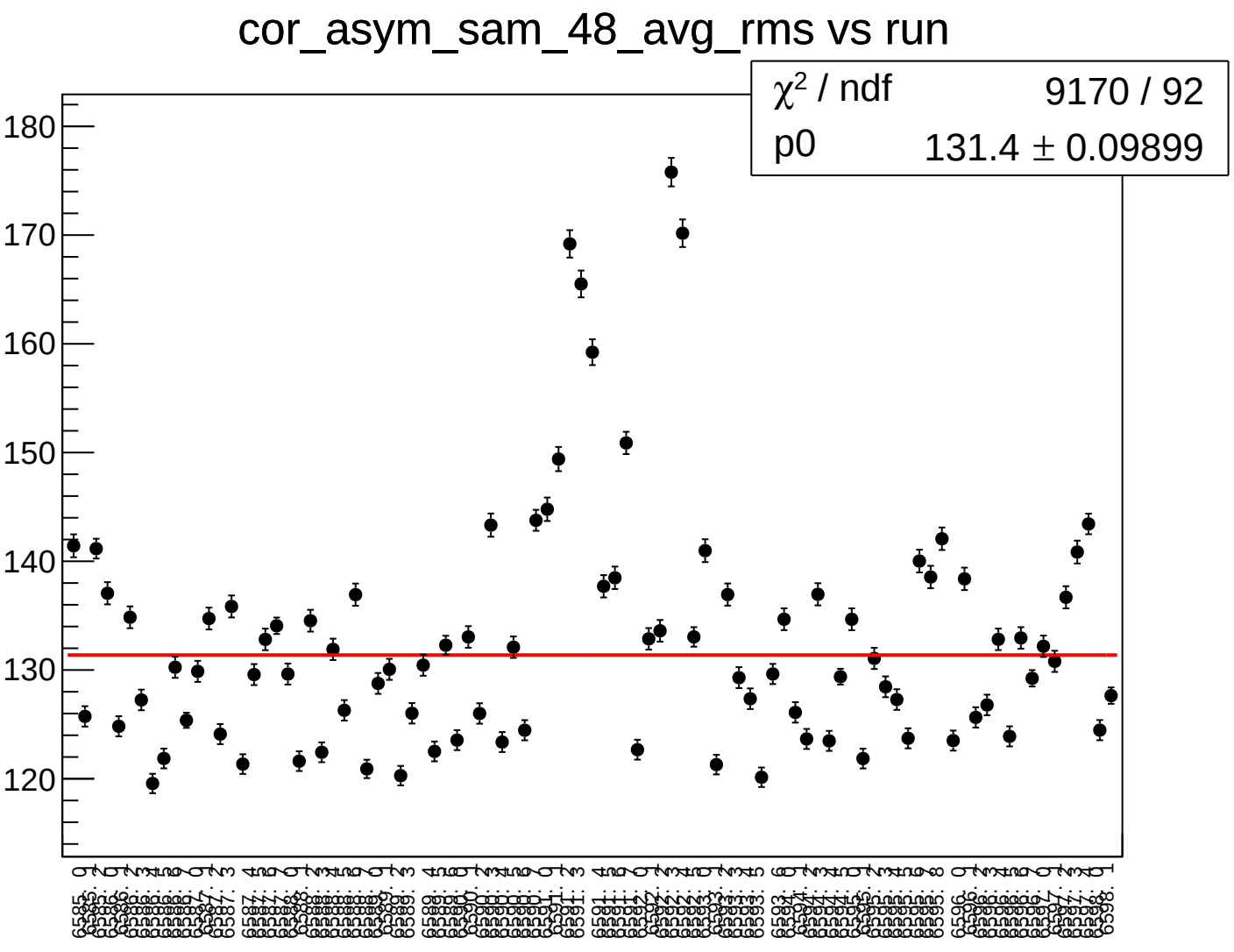

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 121.5 / 92
p0 77.23 ± 1059
pull
Entries 93
Mean 50.46
Std Dev 0

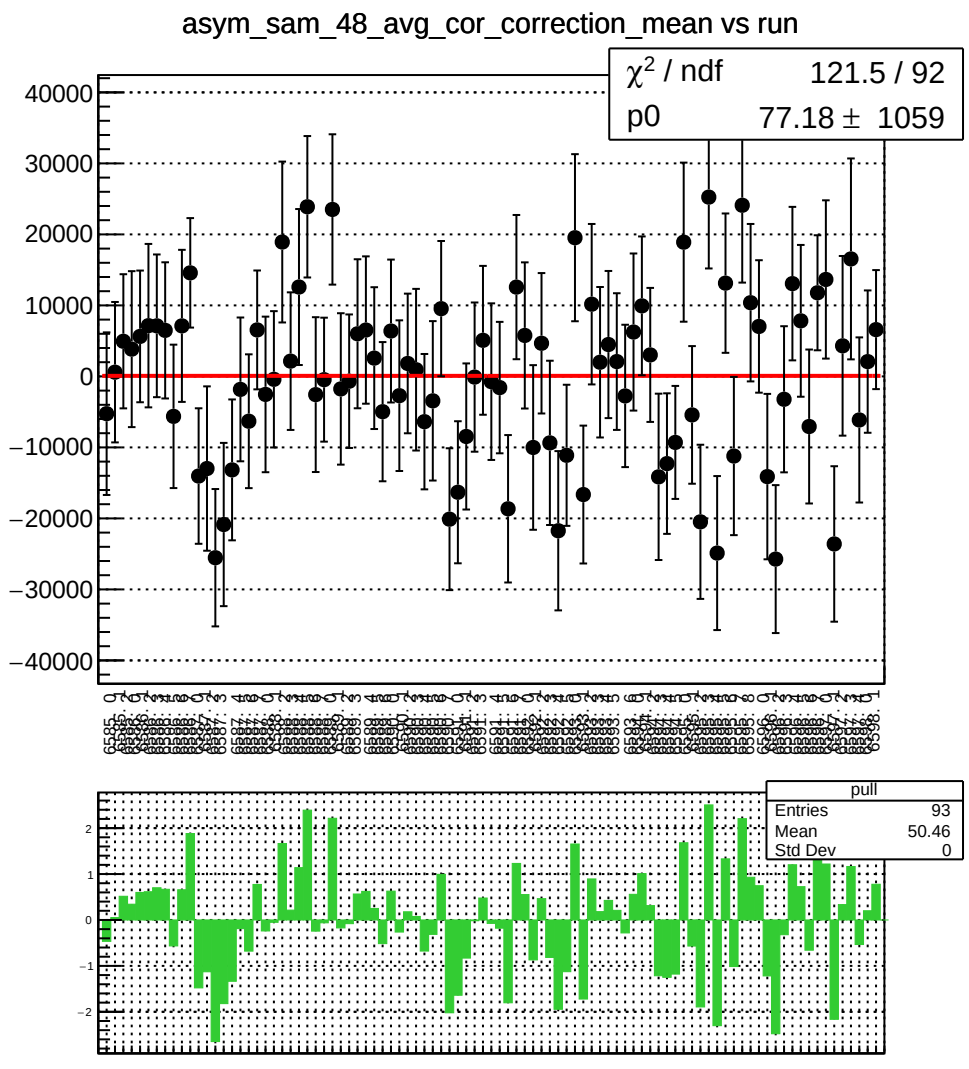

pull1D
Entries 93
Mean −0.009297
Std Dev 1.143

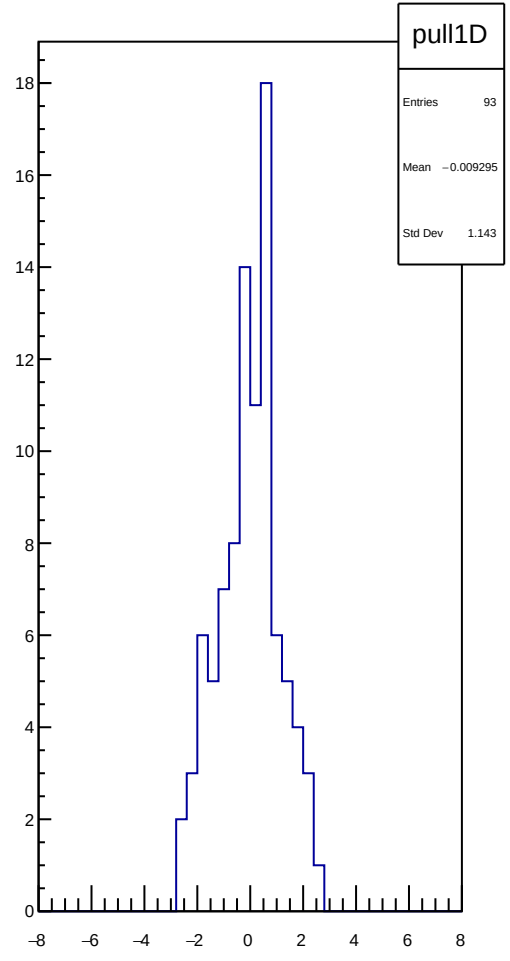

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 9956 / 92
p0 993.3 ± 0.7486
1400
1300
1200
1100
1000
900

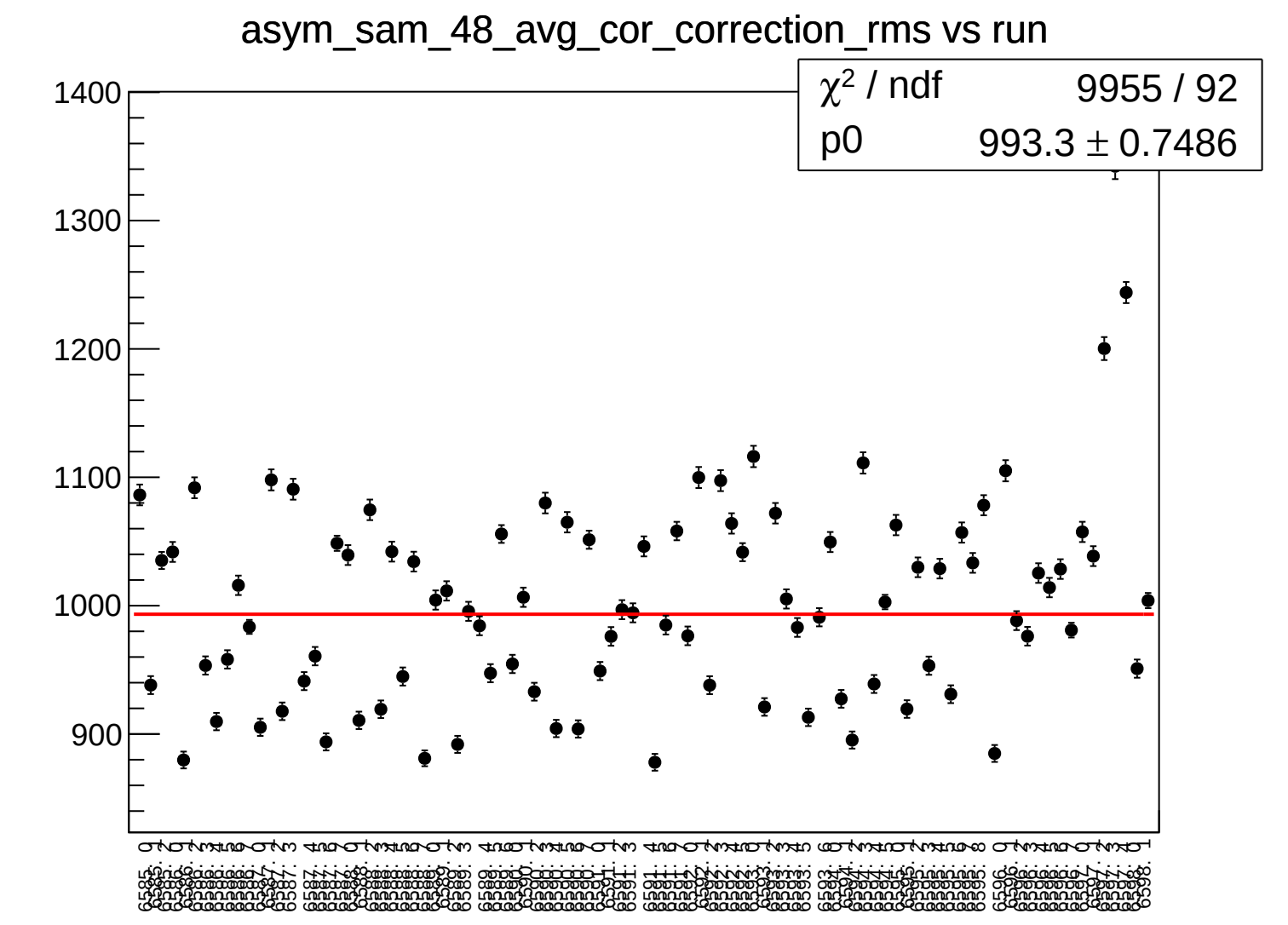

cor_asym_sam_48_avg_mean vs run
χ² / ndf 103.8 / 92
p0 −11.56 ± 140
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −2331
Std Dev 0
2
1
0
−1
−2

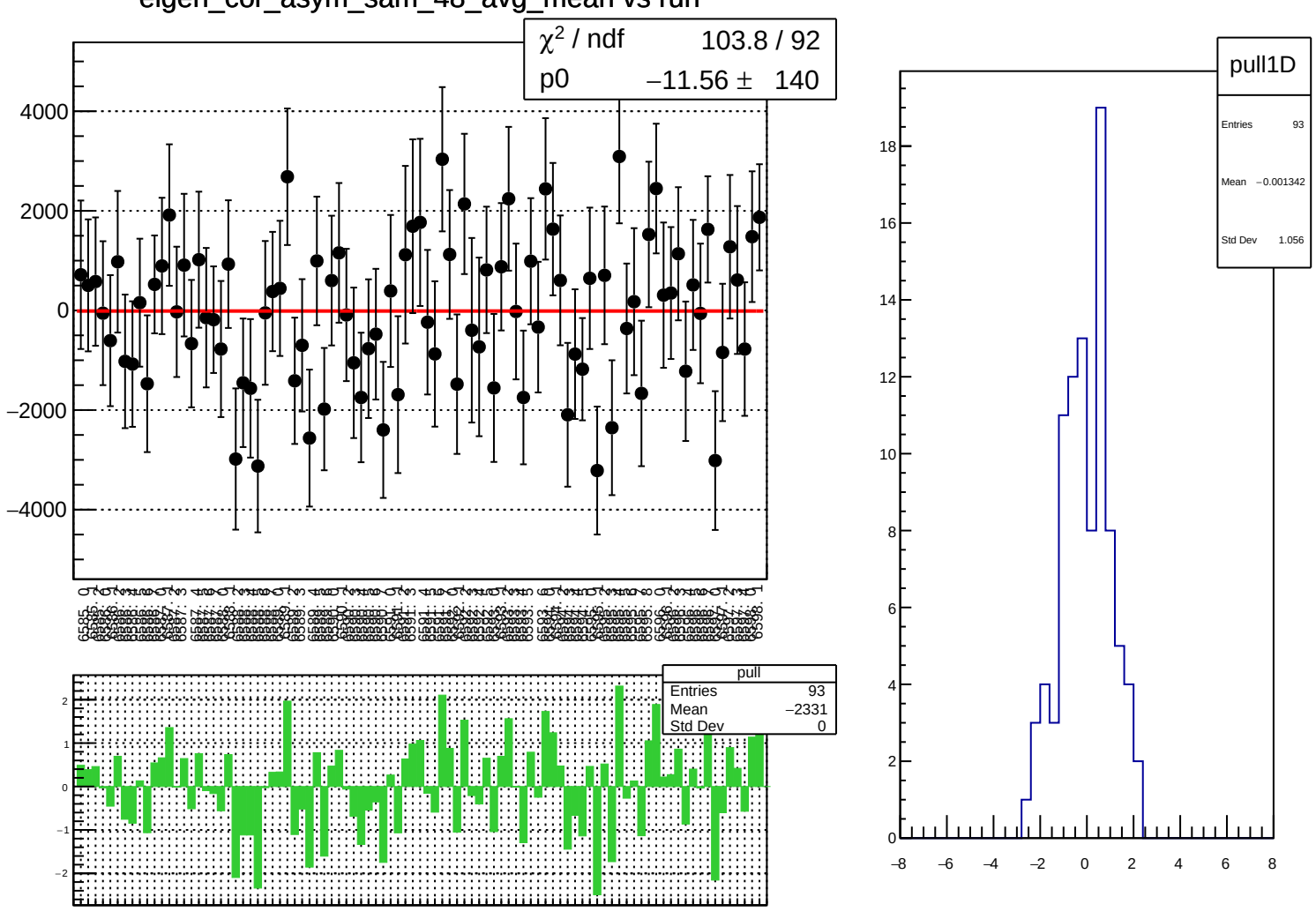

pull1D
Entries 93
Mean −0.001342
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

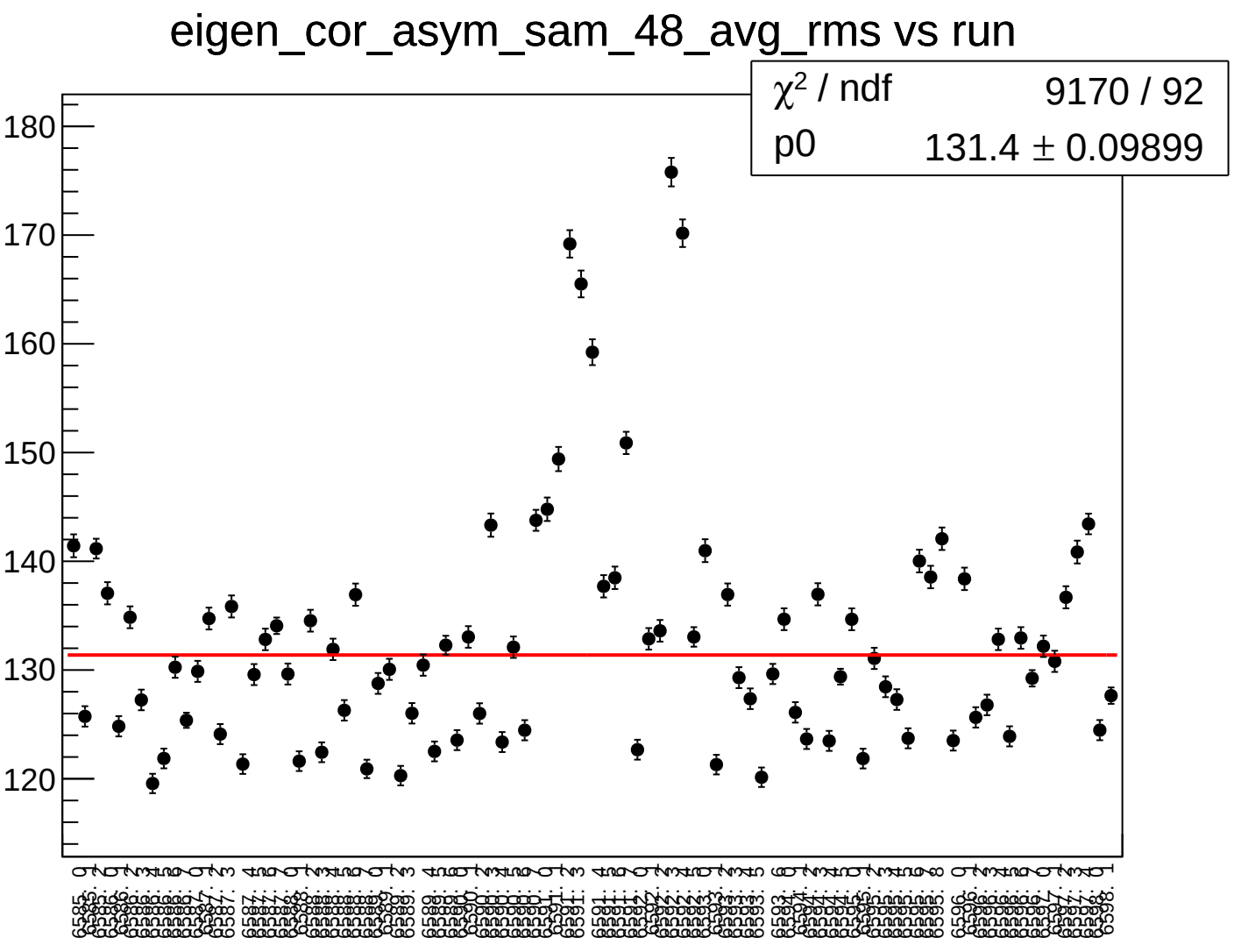

cor_asym_sam_48_avg_rms vs run
χ² / ndf 9170 / 92
p0 131.4 ± 0.09899
180
170
160
150
140
130
120

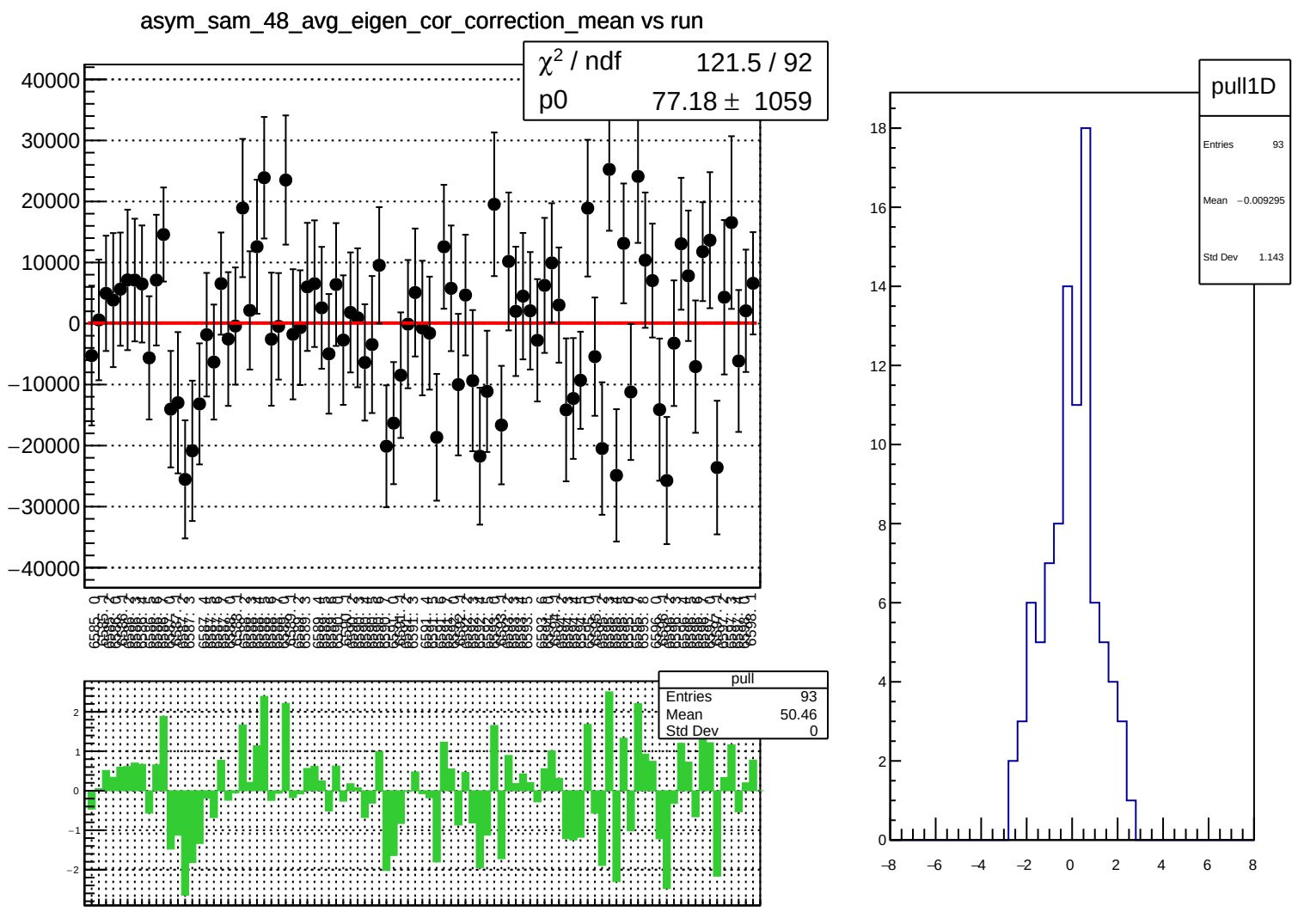

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 121.5 / 92
p0 77.18 ± 1059
pull
Entries 93
Mean 50.46
Std Dev 0

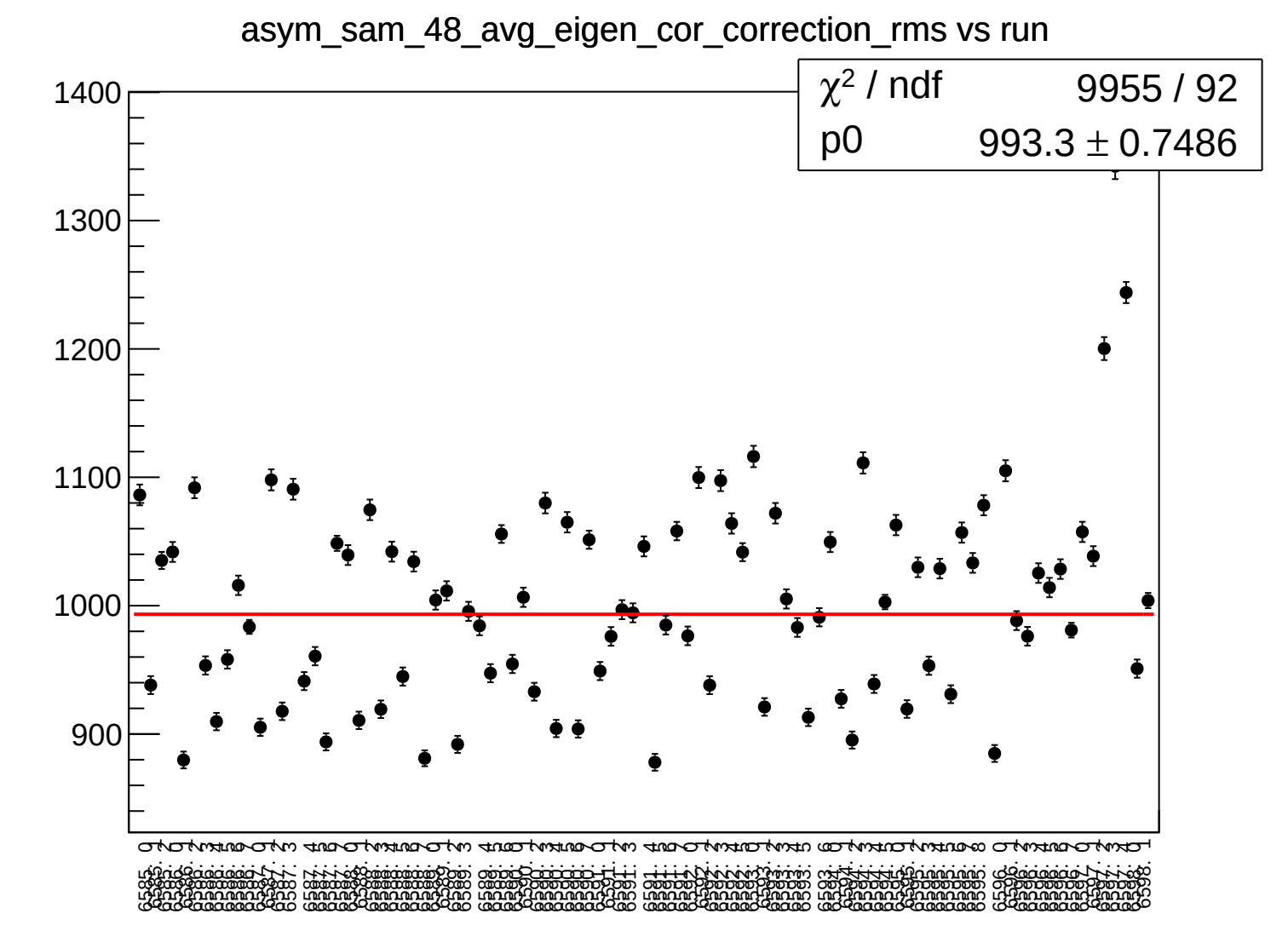

pull1D
Entries 93
Mean −0.009295
Std Dev 1.143

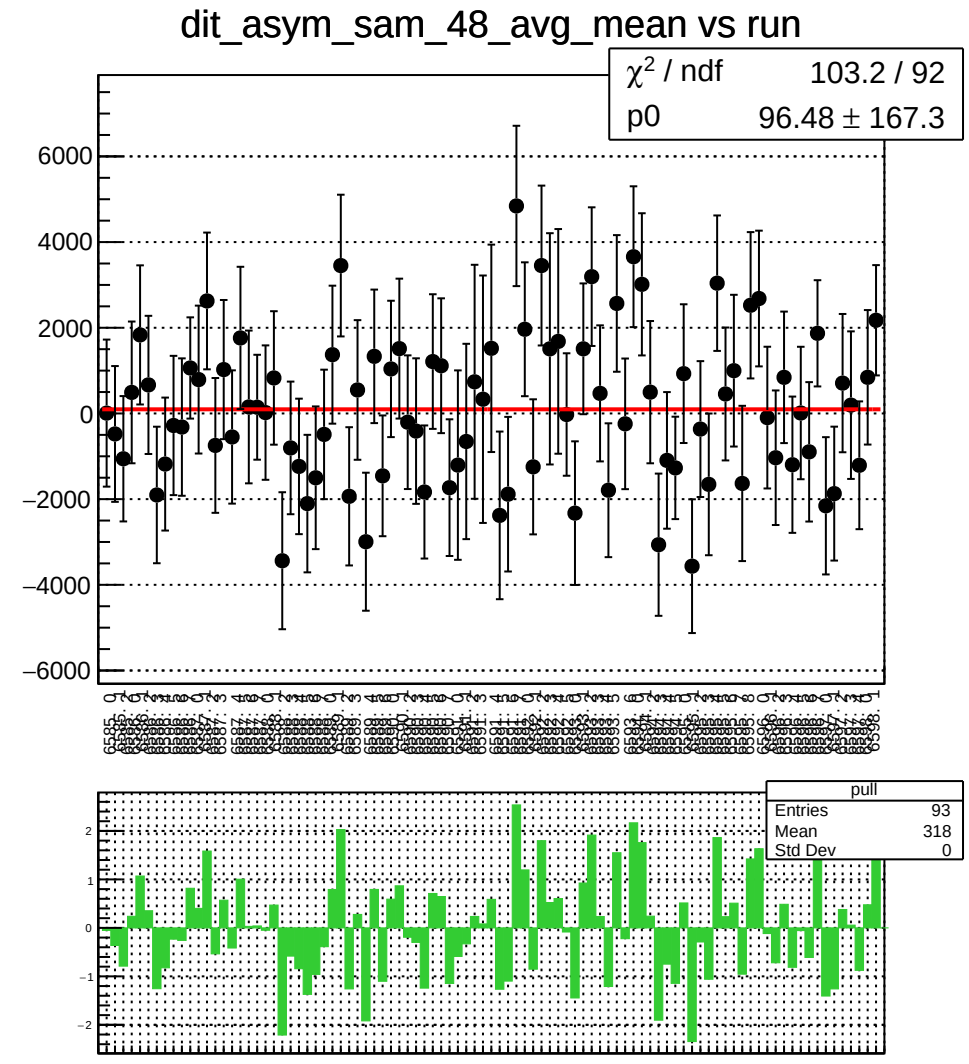

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 9955 / 92
p0 993.3 ± 0.7486
1400
1300
1200
1100
1000
900

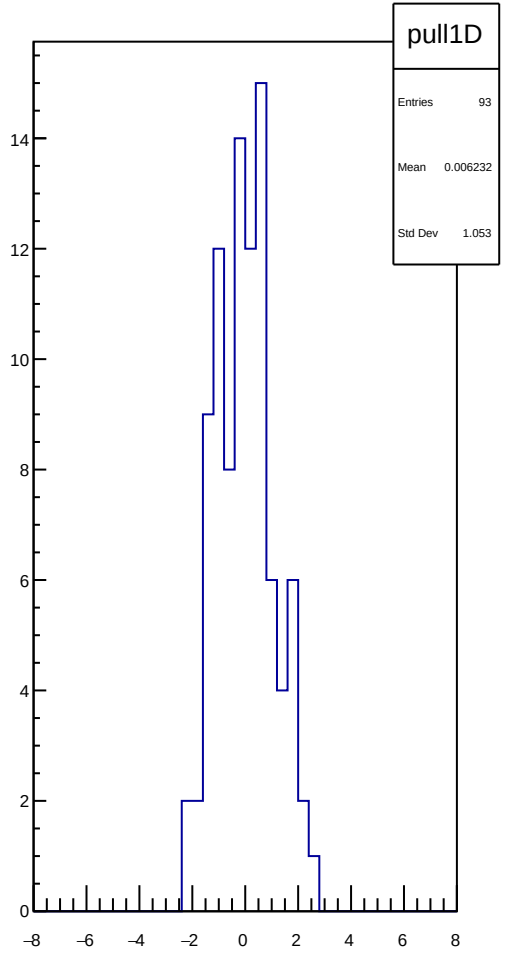

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 103.8 / 92
p0 −11.56 ± 140
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −2331
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001342
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

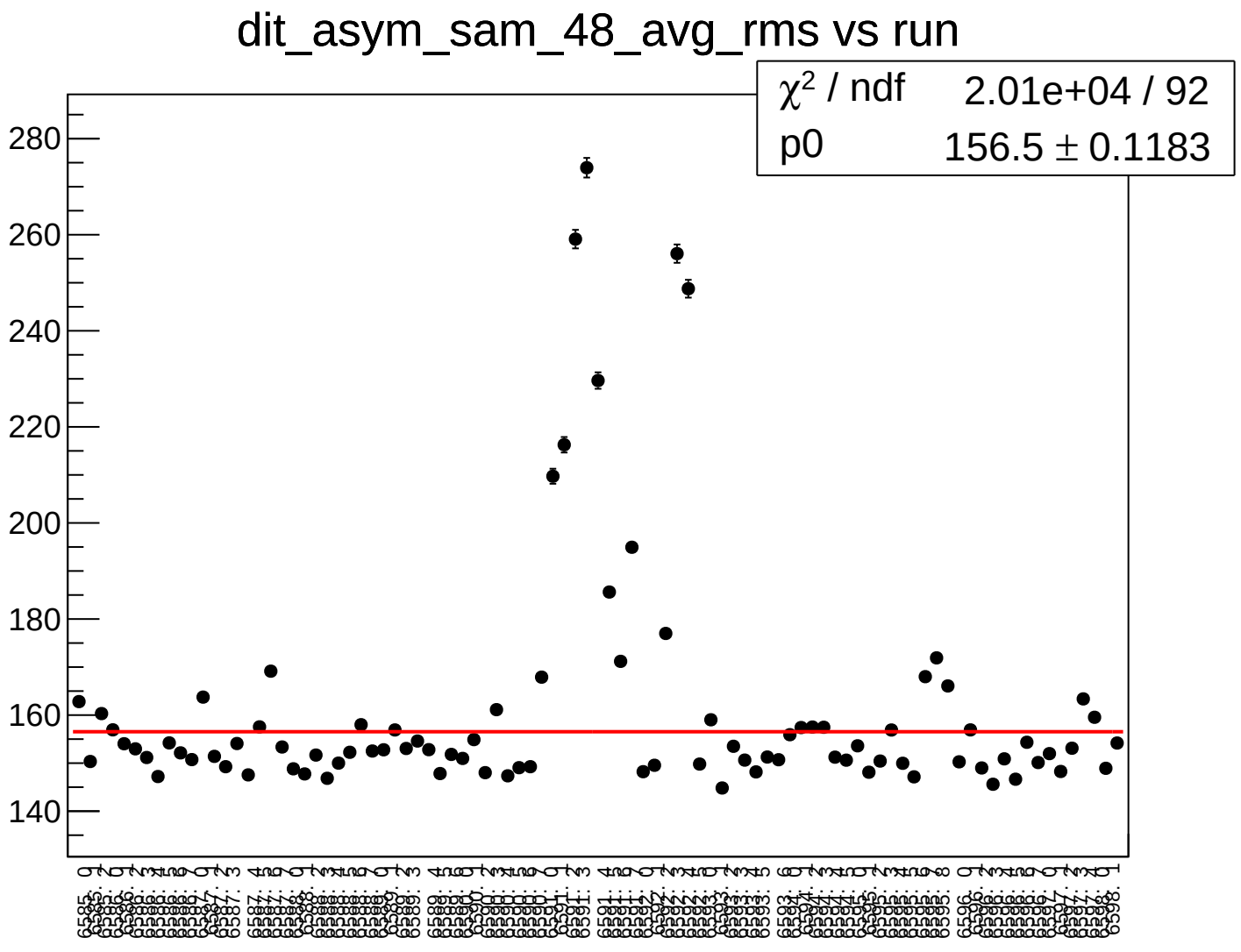

eigen_cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 9170 / 92
p0 131.4 ± 0.09899
180
170
160
150
140
130
120

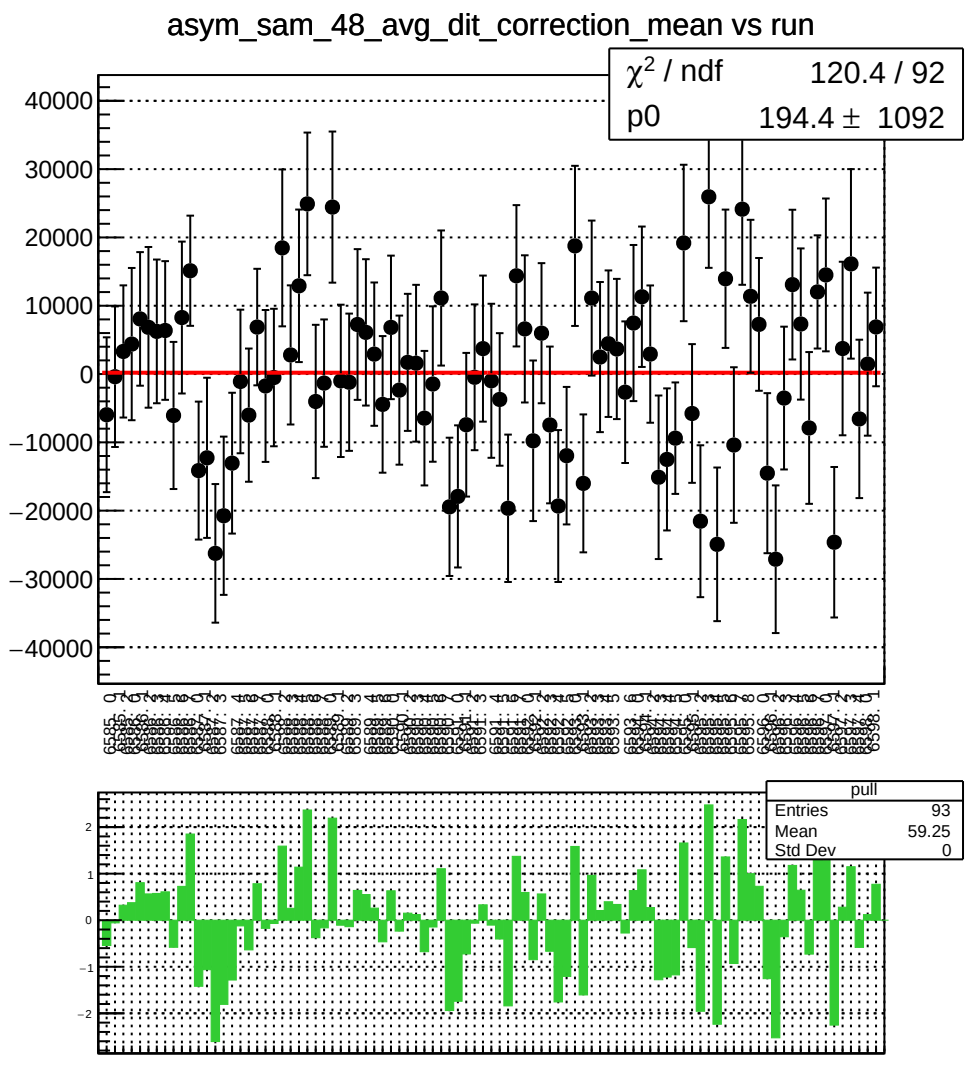

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 121.5 / 92
p0 77.18 ± 1059
pull
Entries 93
Mean 50.46
Std Dev 0
pull1D
Entries 93
Mean −0.009295
Std Dev 1.143

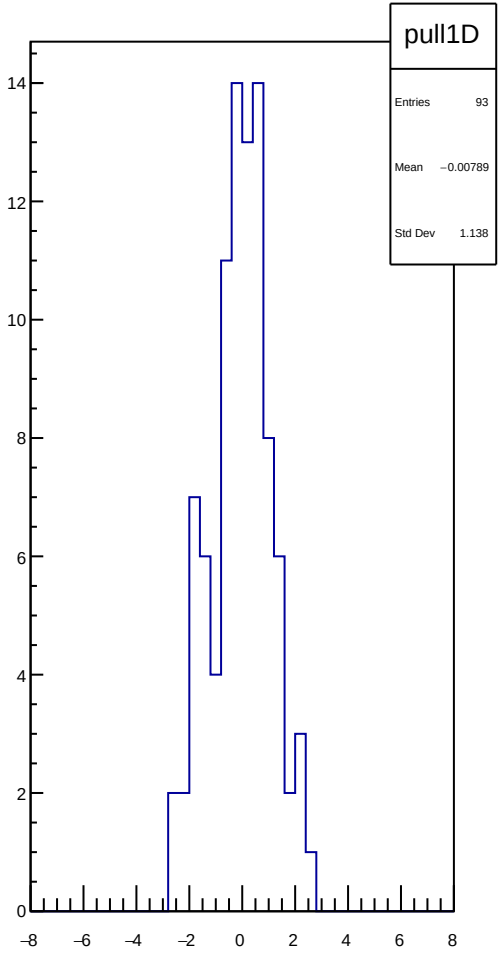

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 9955 / 92
p0 993.3 ± 0.7486
1400
1300
1200
1100
1000
900

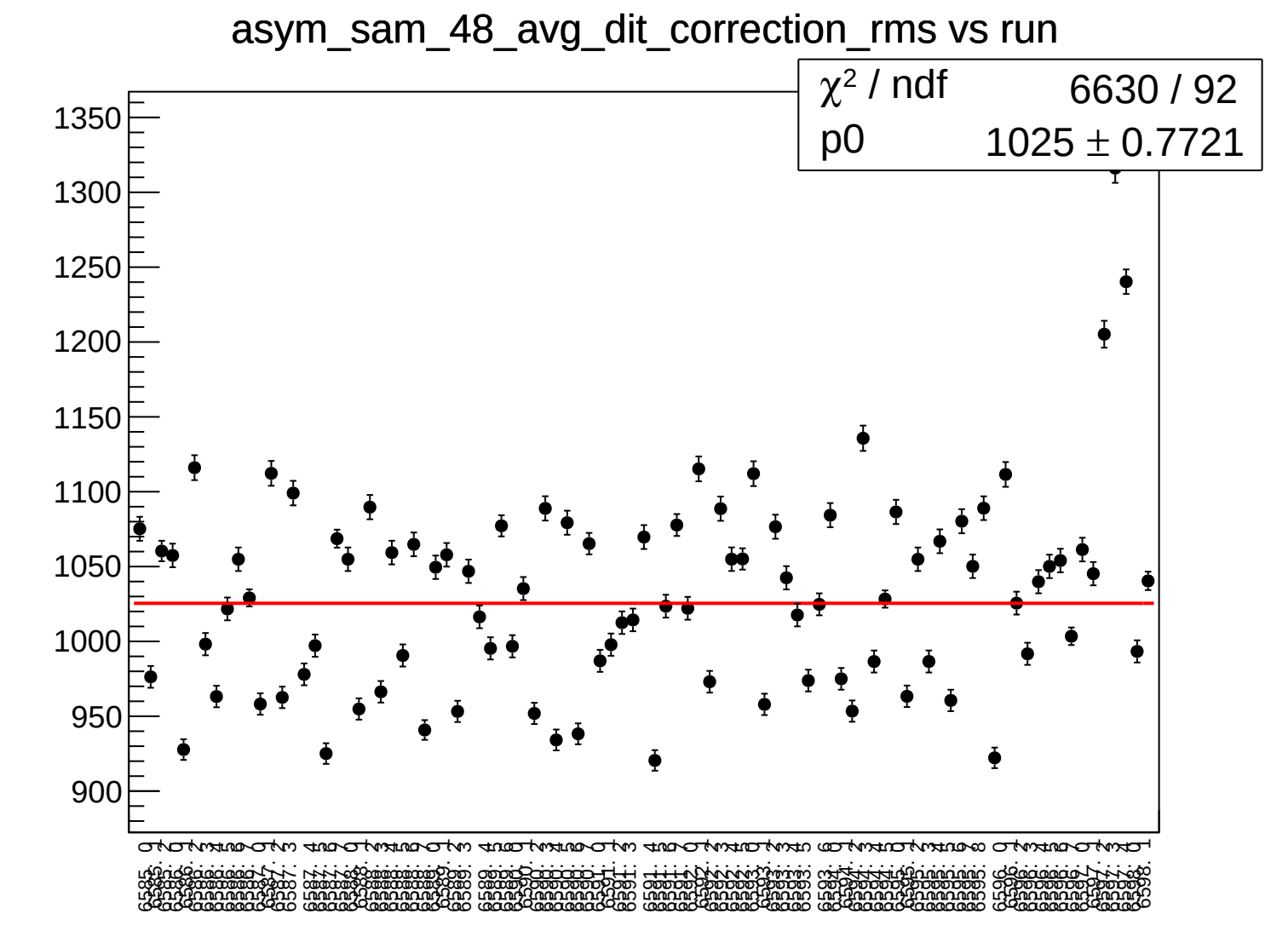

dit_asym_sam_48_avg_mean vs run
χ² / ndf 103.2 / 92
p0 96.48 ± 167.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 318
Std Dev 0
2
1
0
−1
−2

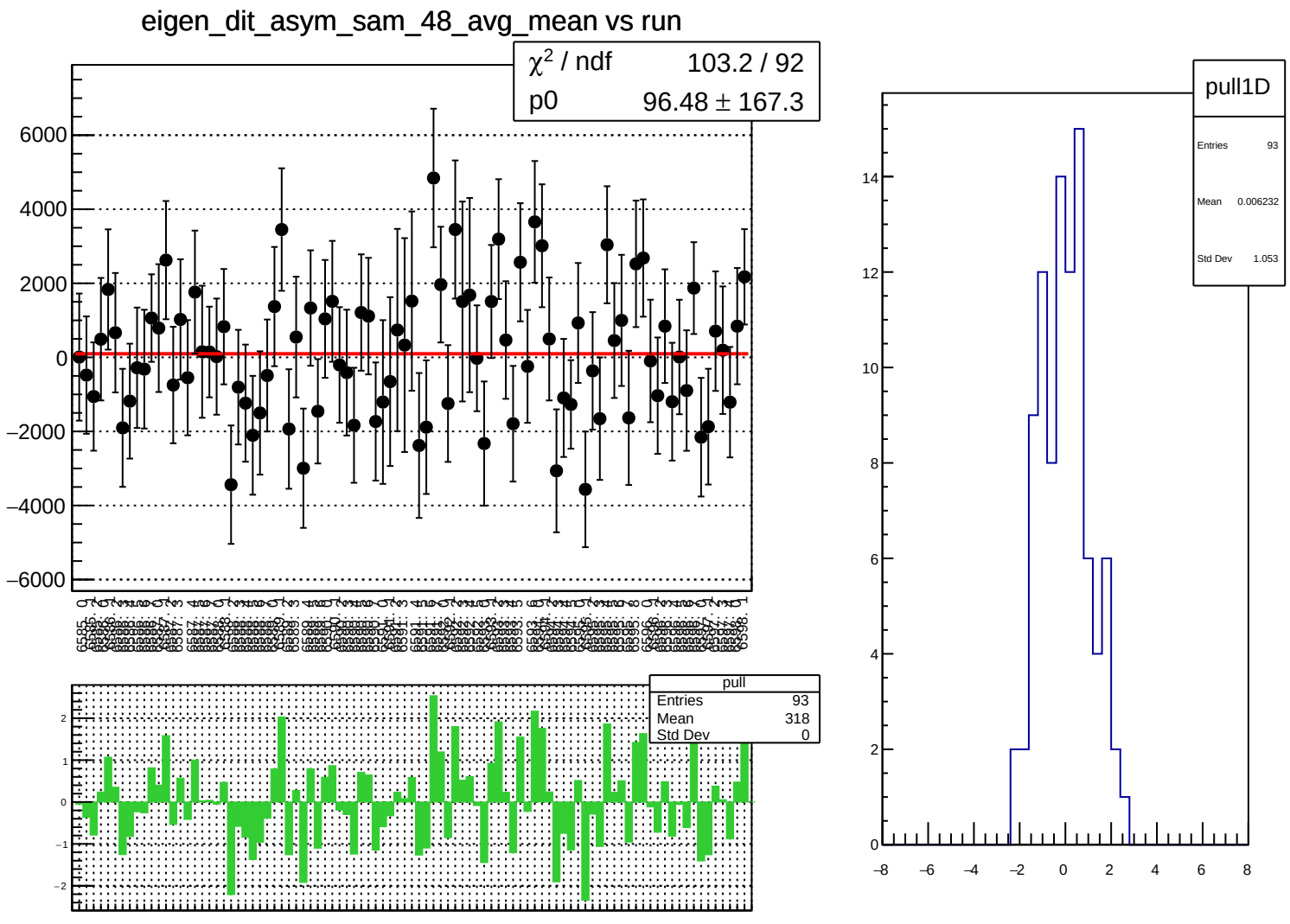

pull1D
Entries 93
Mean 0.006232
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

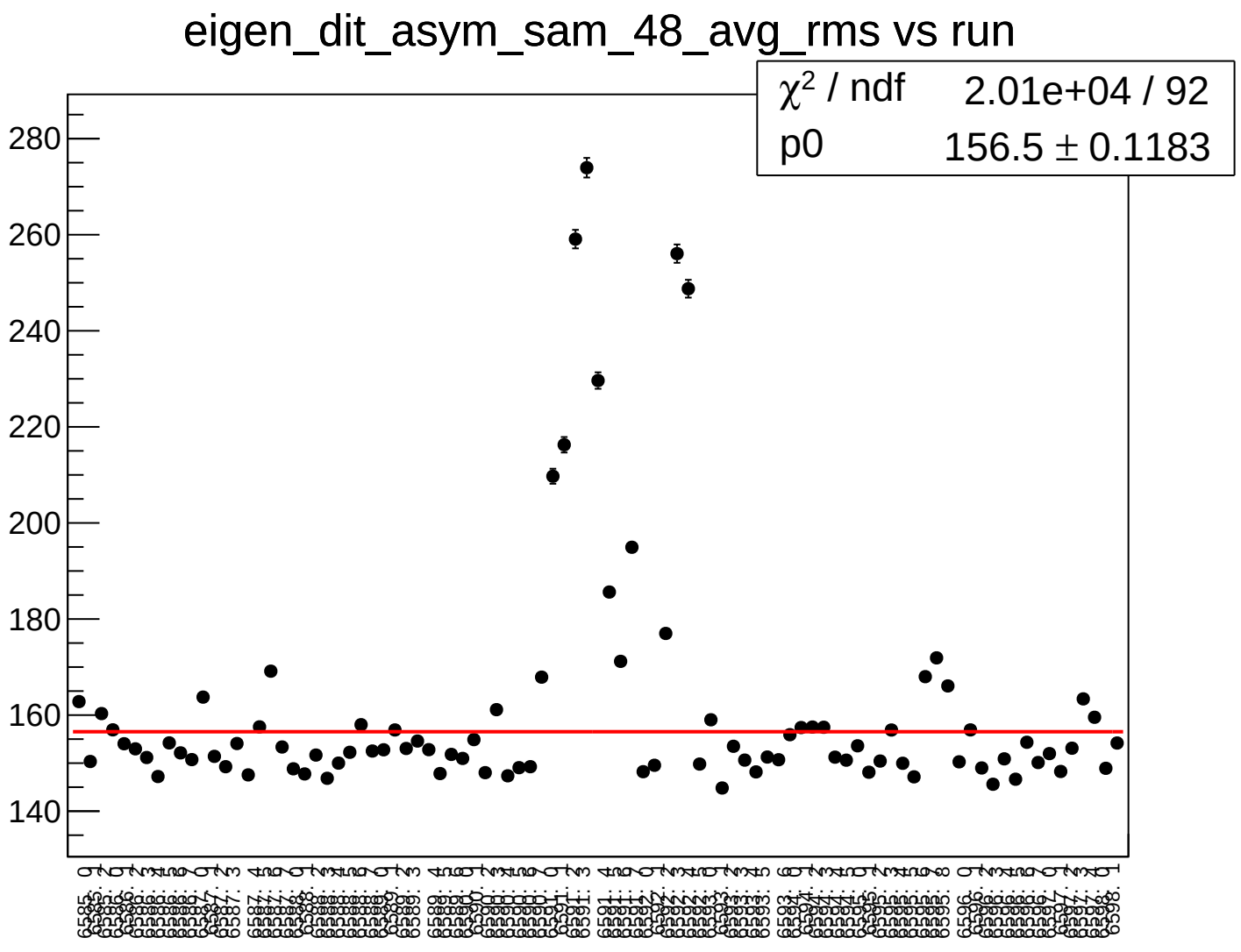

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 2.01e+04 / 92
p0 156.5 ± 0.1183
280
260
240
220
200
180
160
140

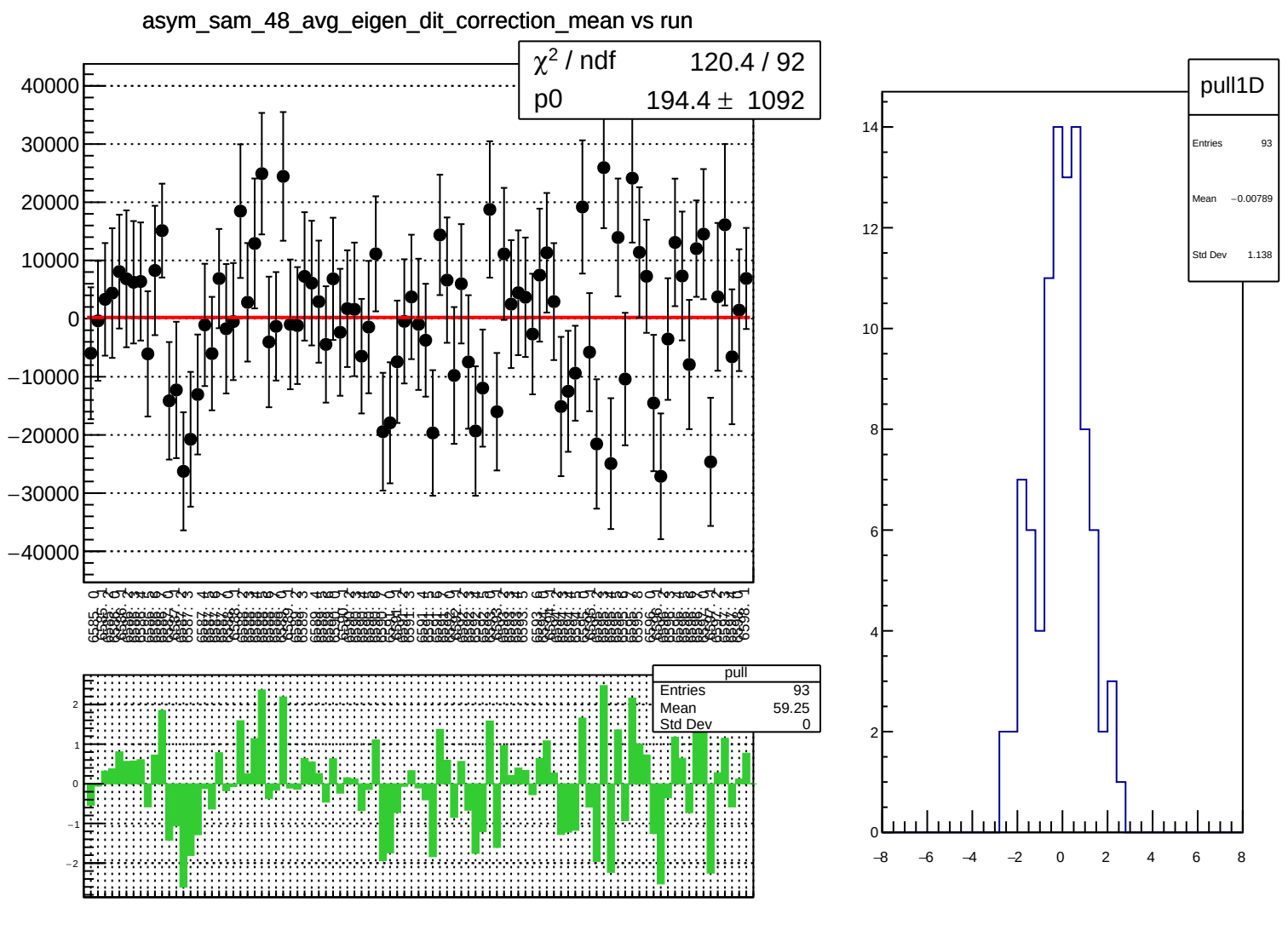

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 120.4 / 92
p0 194.4 ± 1092
pull
Entries 93
Mean 59.25
Std Dev 0

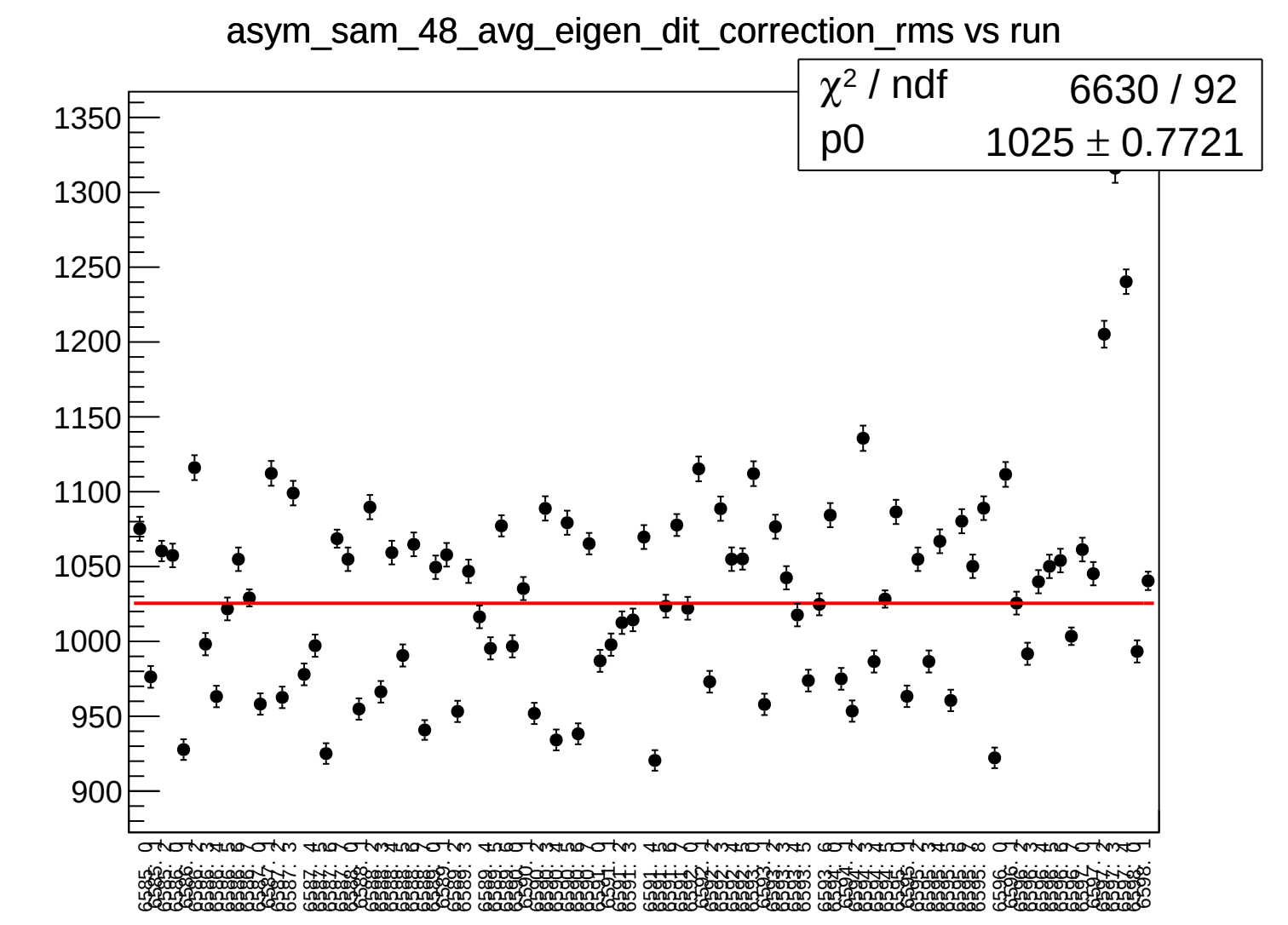

pull1D
Entries 93
Mean −0.00789
Std Dev 1.138

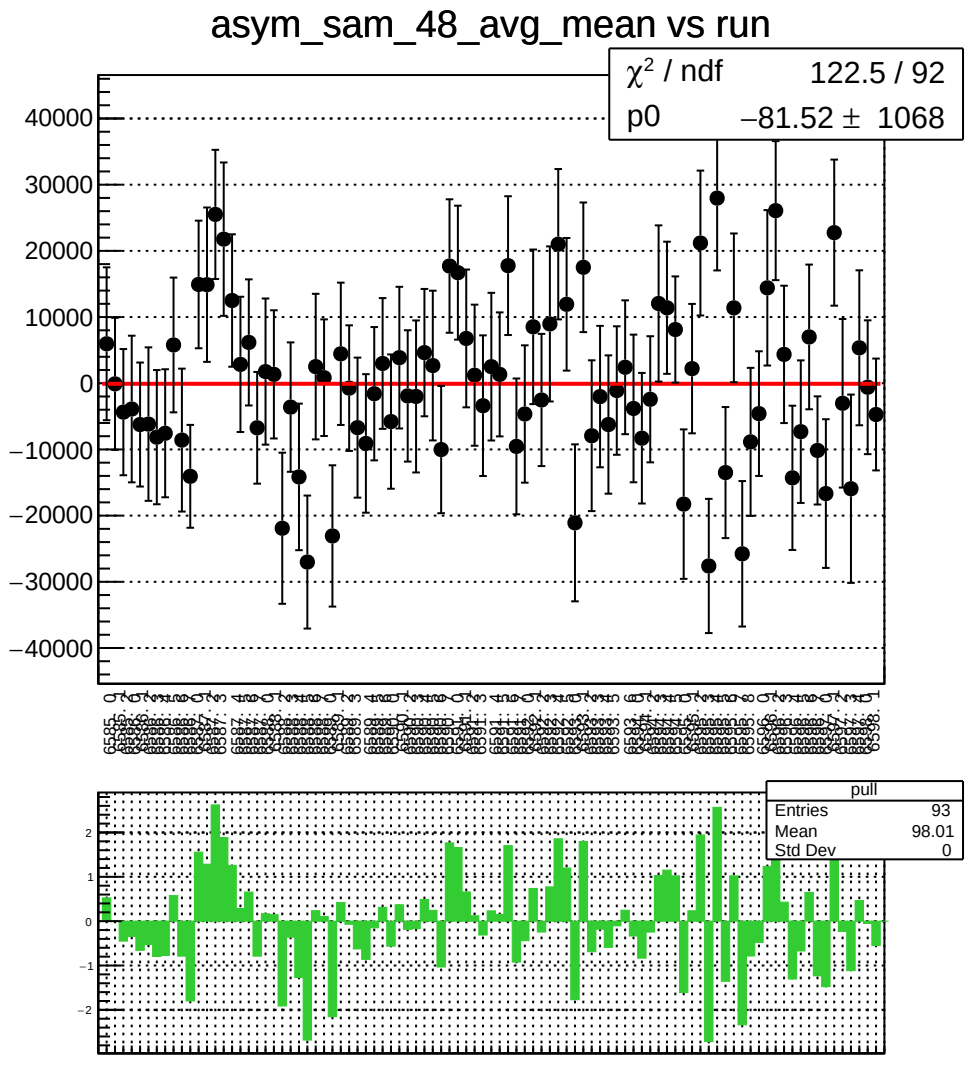

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 6630 / 92
p0 1025 ± 0.7721
1350
1300
1250
1200
1150
1100
1050
1000
950
900

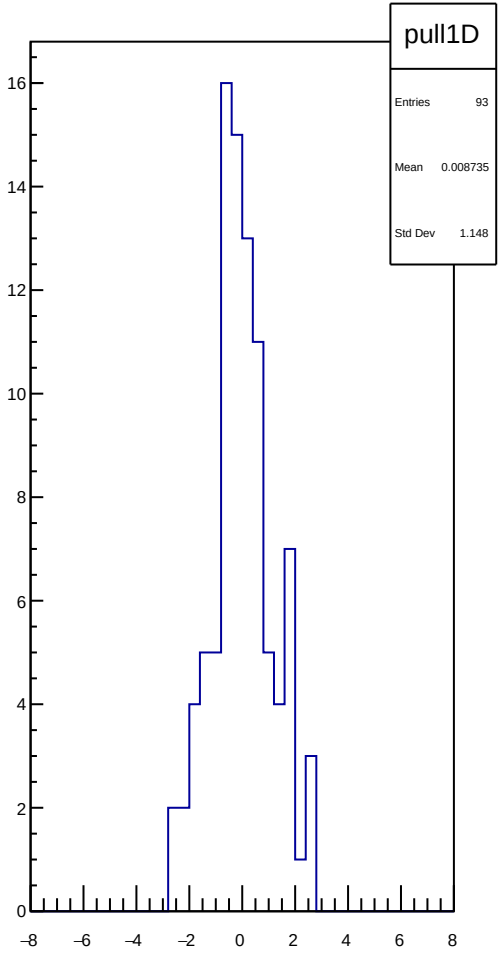

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 103.2 / 92
p0 96.48 ± 167.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 318
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006232
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

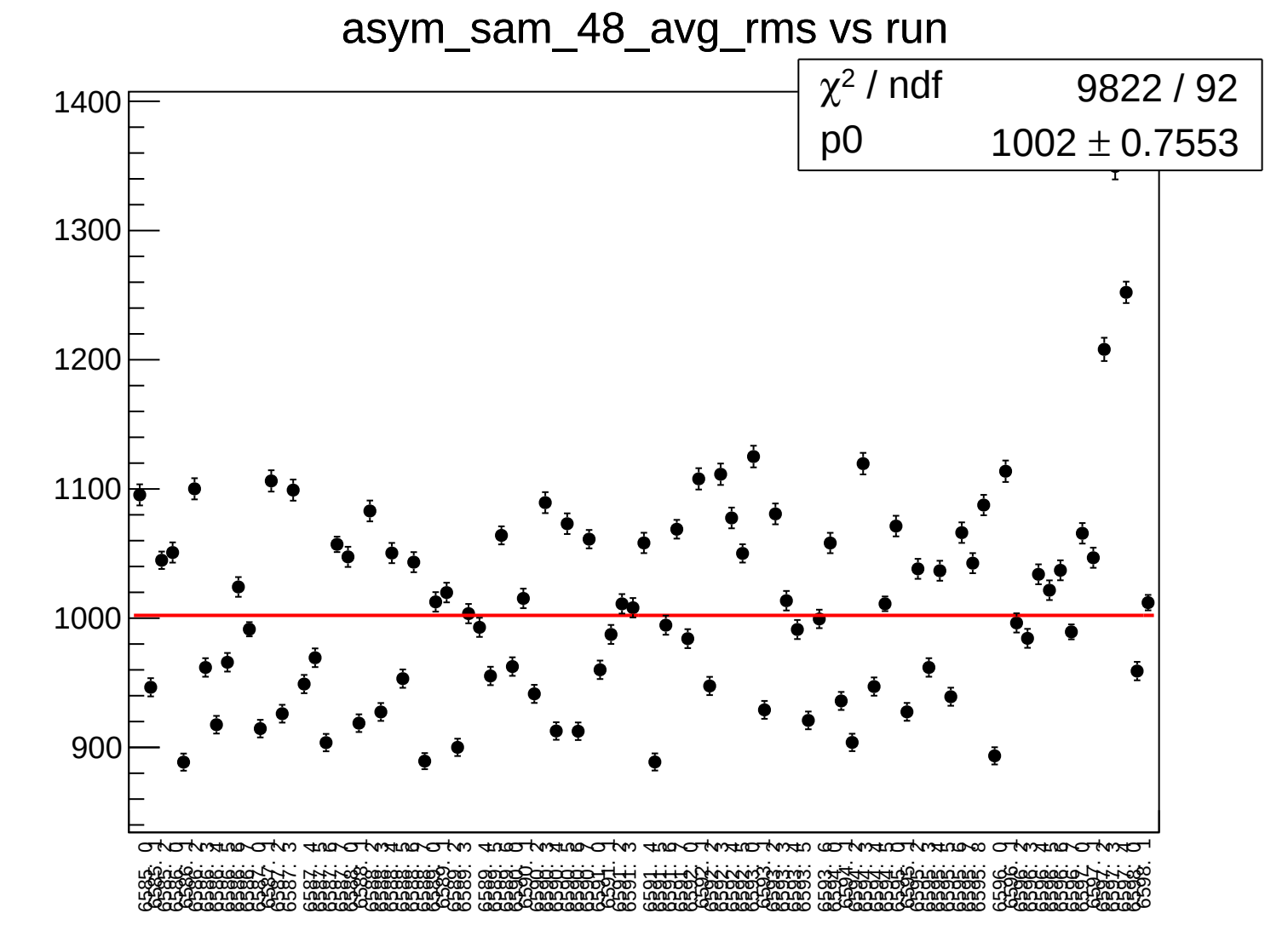

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 2.01e+04 / 92
p0 156.5 ± 0.1183
280
260
240
220
200
180
160
140

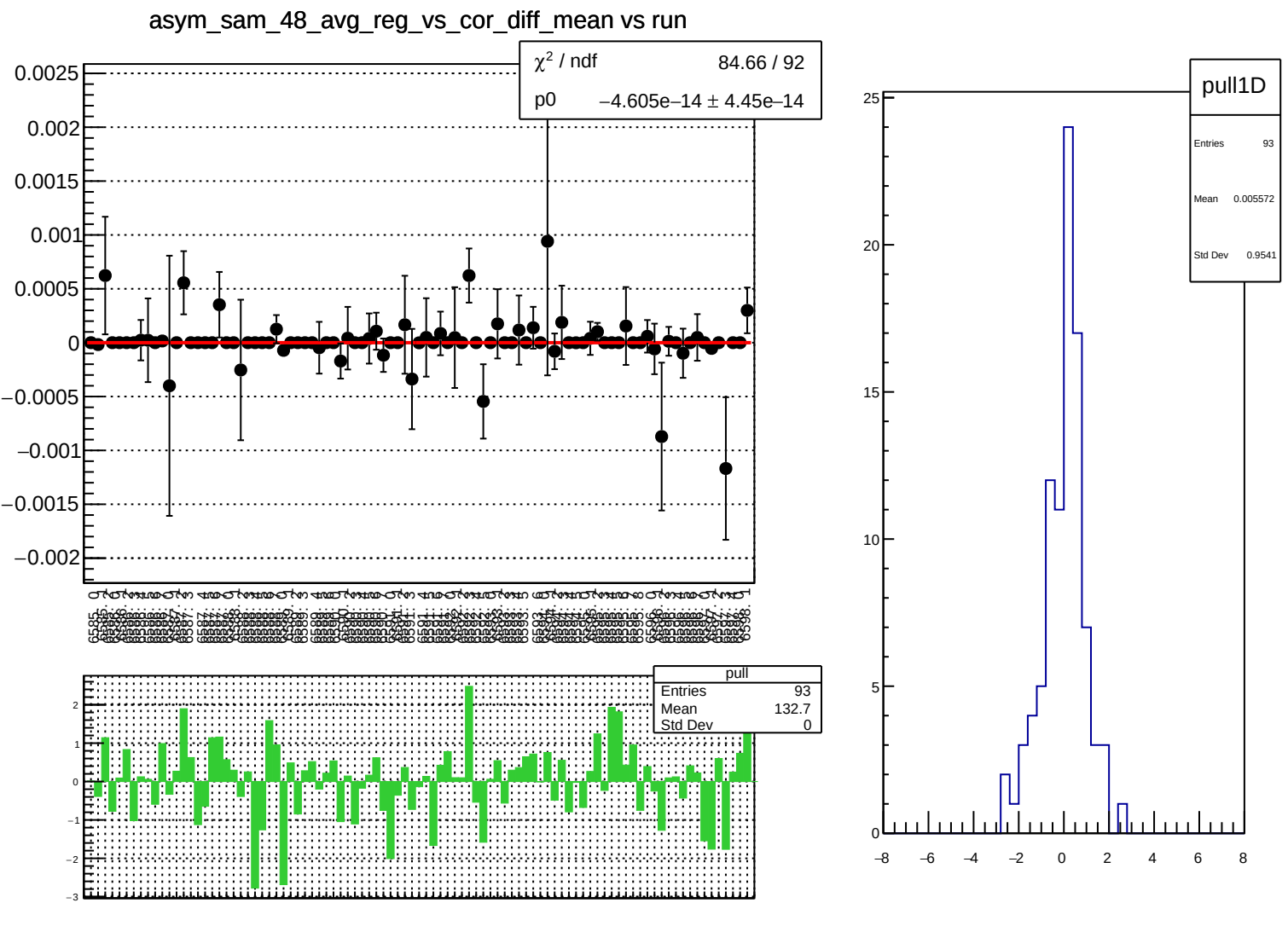

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 120.4 / 92
p0 194.4 ± 1092
pull
Entries 93
Mean 59.25
Std Dev 0
pull1D
Entries 93
Mean −0.00789
Std Dev 1.138

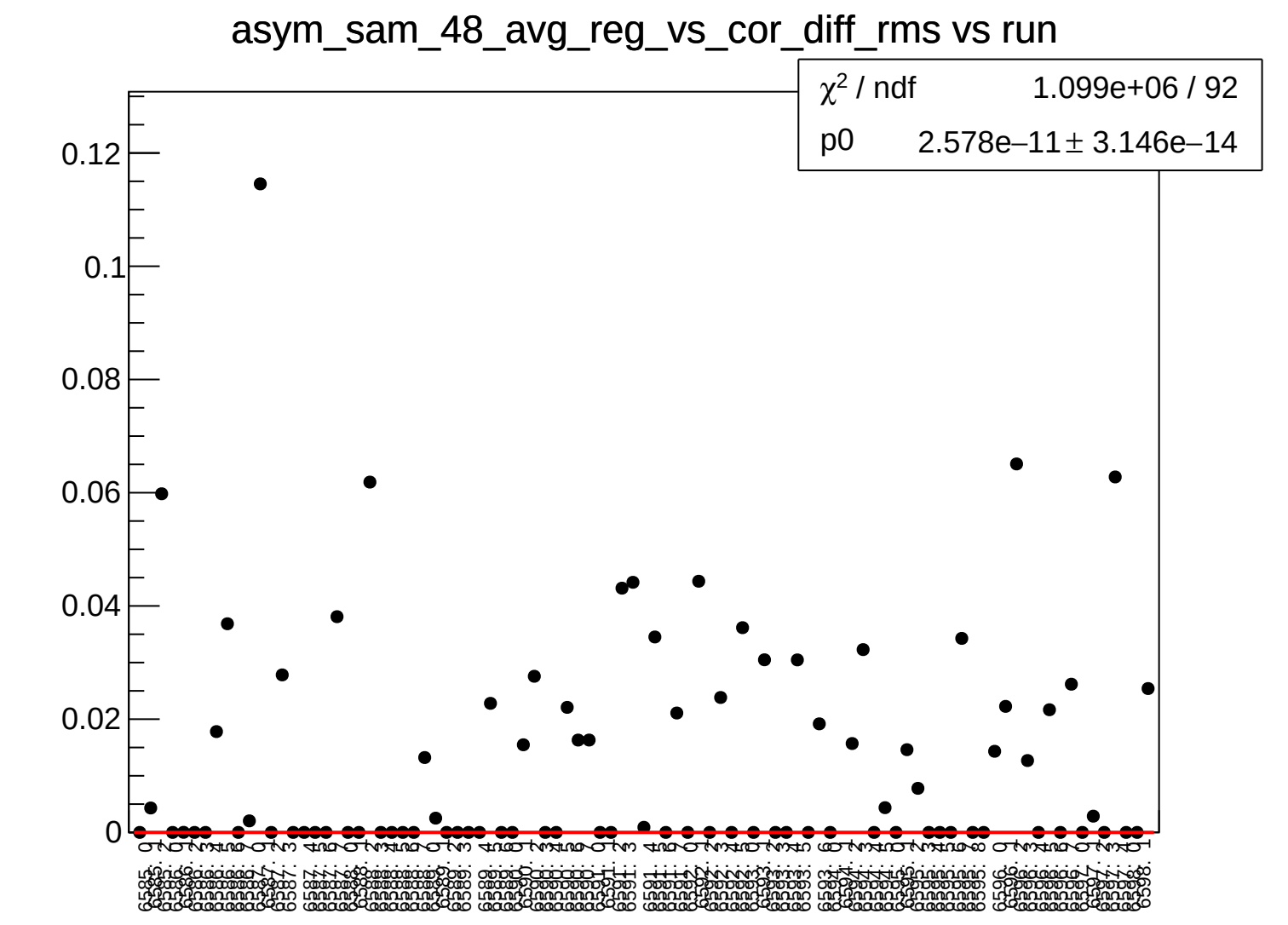

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 6630 / 92
p0 1025 ± 0.7721
1350
1300
1250
1200
1150
1100
1050
1000
950
900

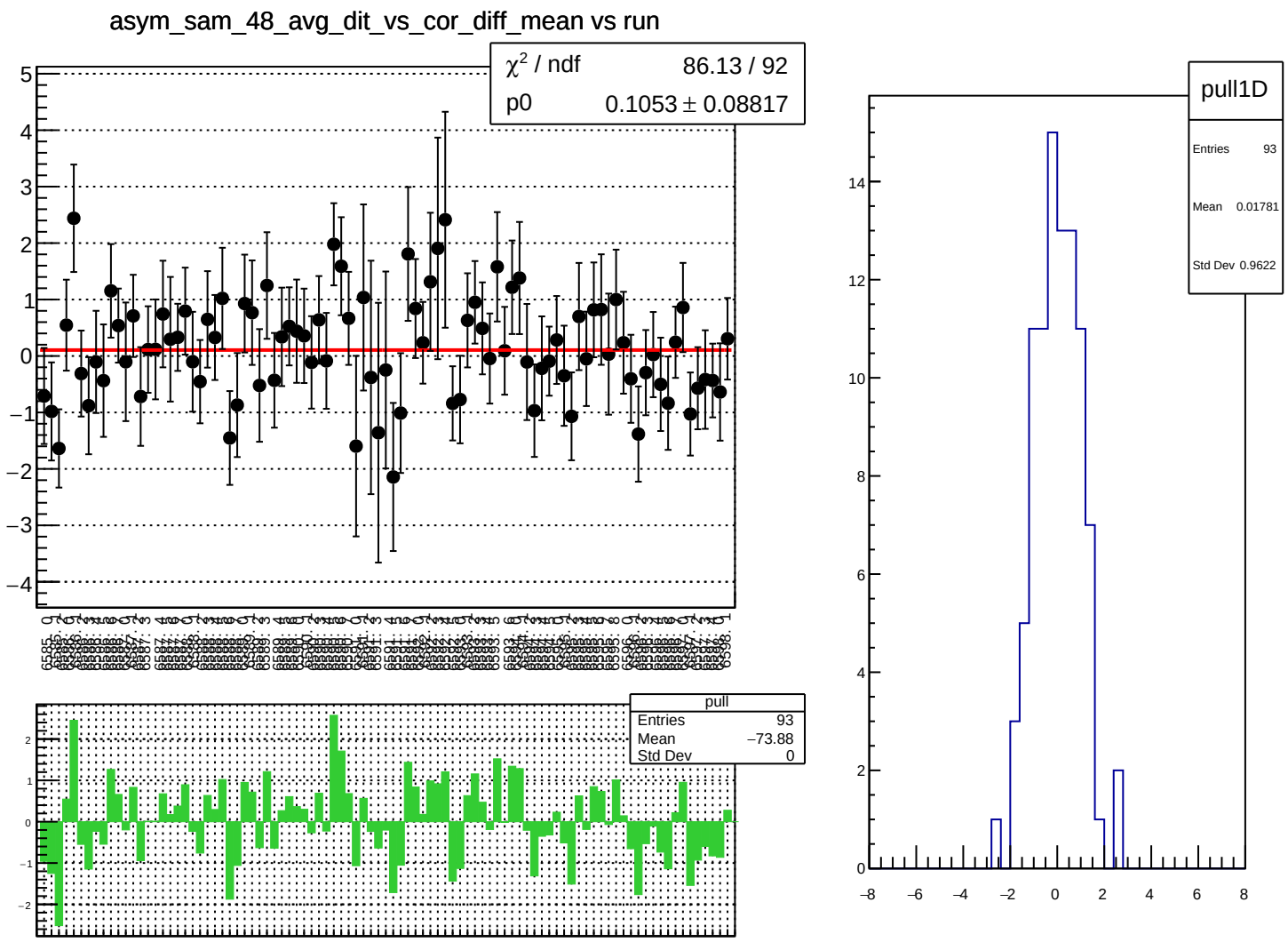

asym_sam_48_avg_mean vs run
χ² / ndf 122.5 / 92
p0 −81.52 ± 1068
pull
Entries 93
Mean 98.01
Std Dev 0

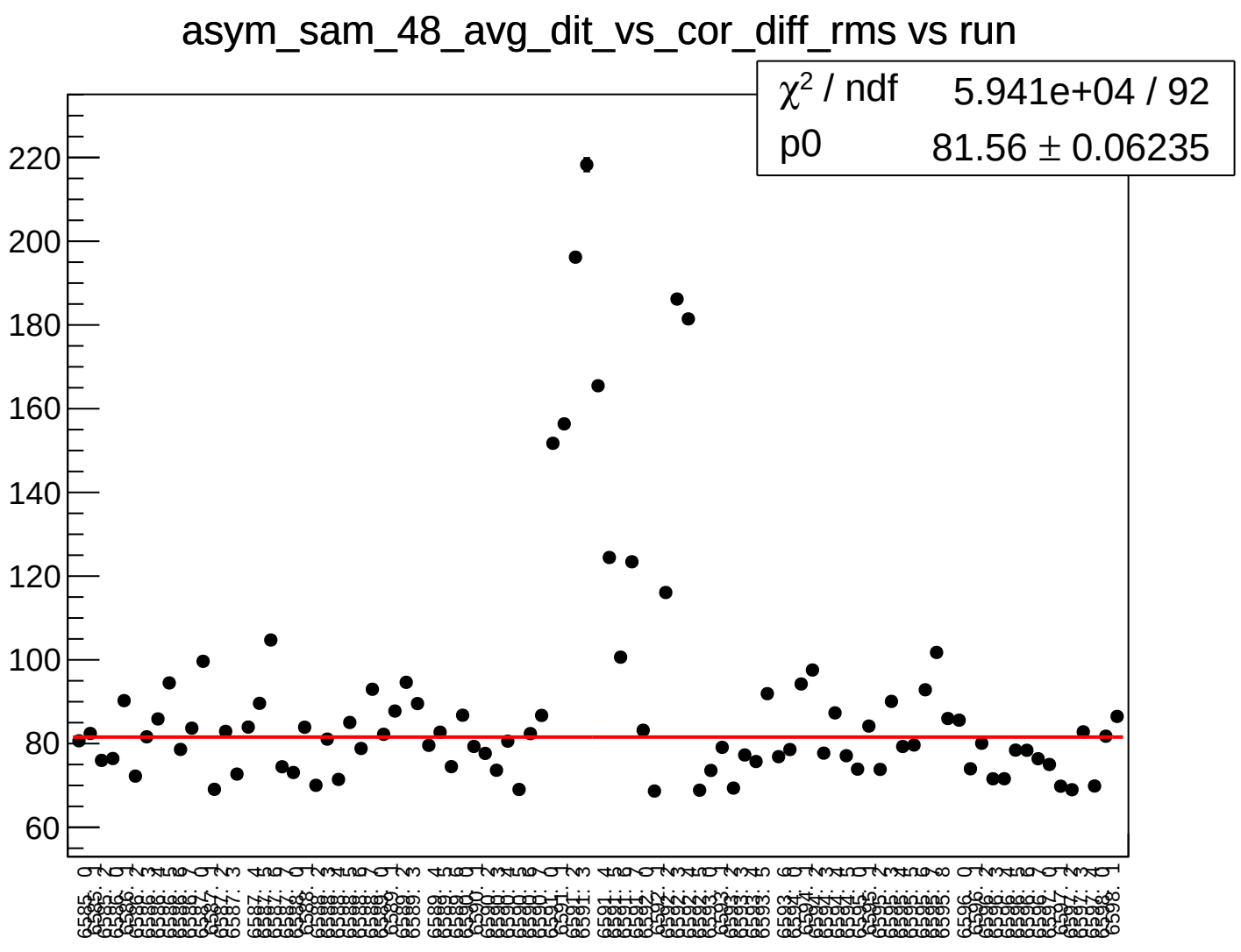

pull1D
Entries 93
Mean 0.008735
Std Dev 1.148

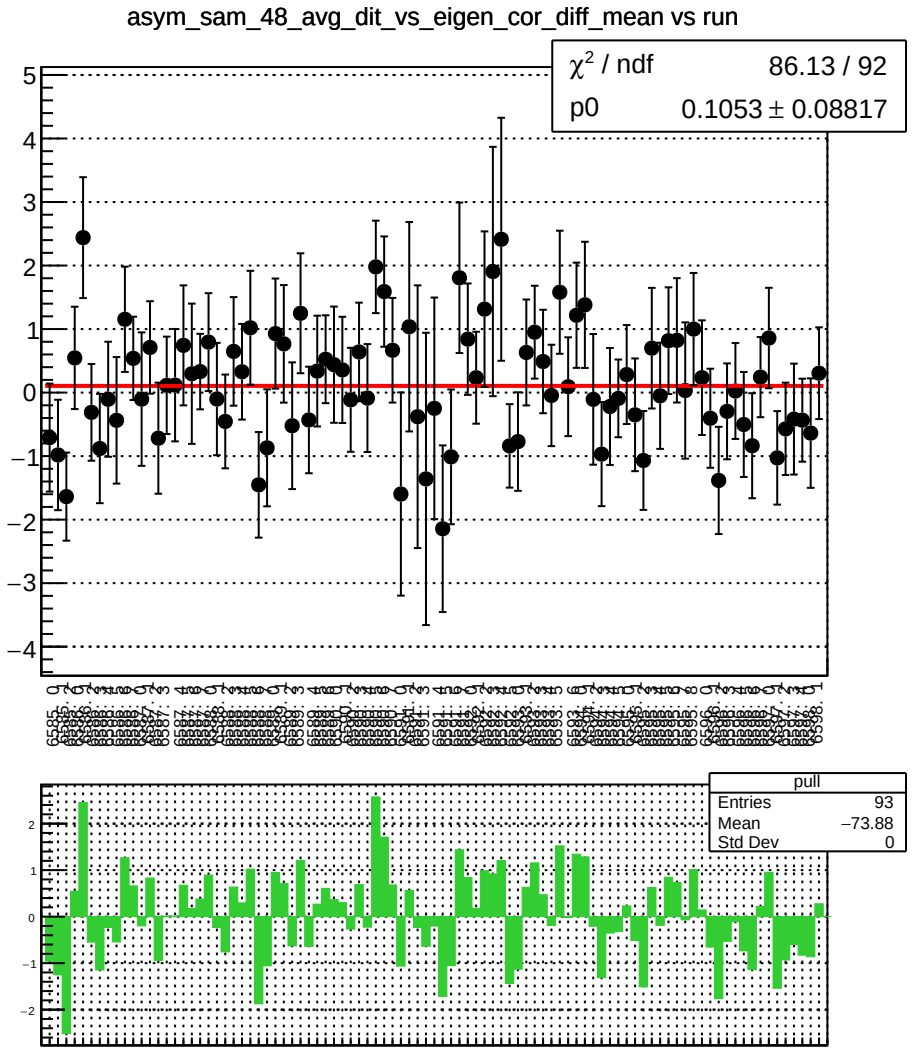

asym_sam_48_avg_rms vs run
χ^2 / ndf 9822 / 92
p0 1002 ± 0.7553
1400
1300
1200
1100
1000
900

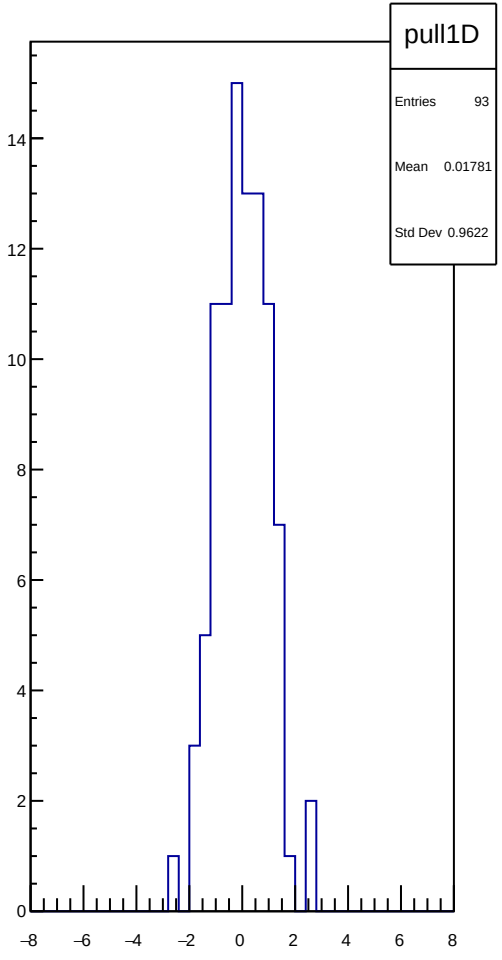

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.66 / 92
p0 −4.605e−14 ± 4.45e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 93
Mean 132.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.005572
Std Dev 0.9541
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

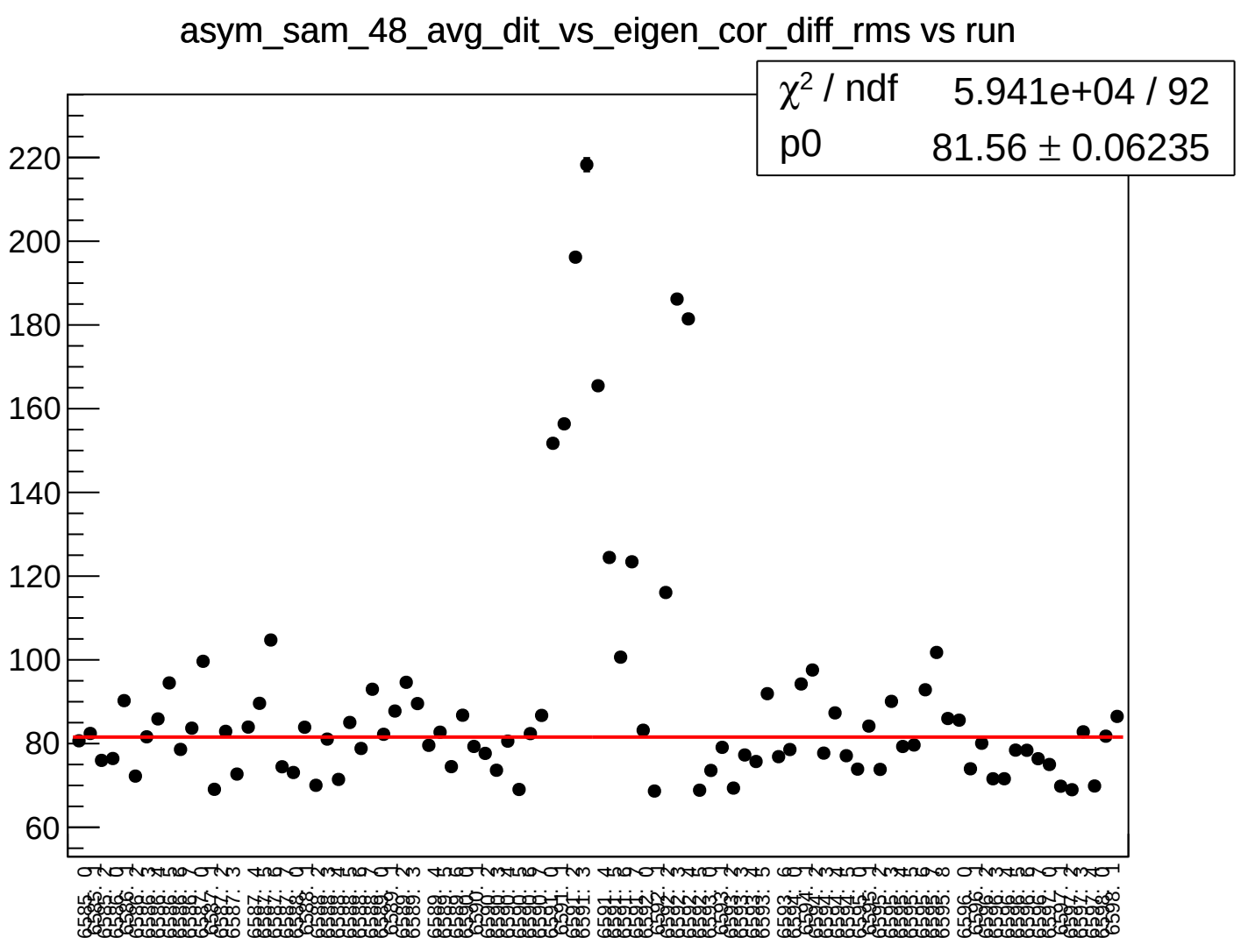

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 92
p0 2.578e−11 ± 3.146e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

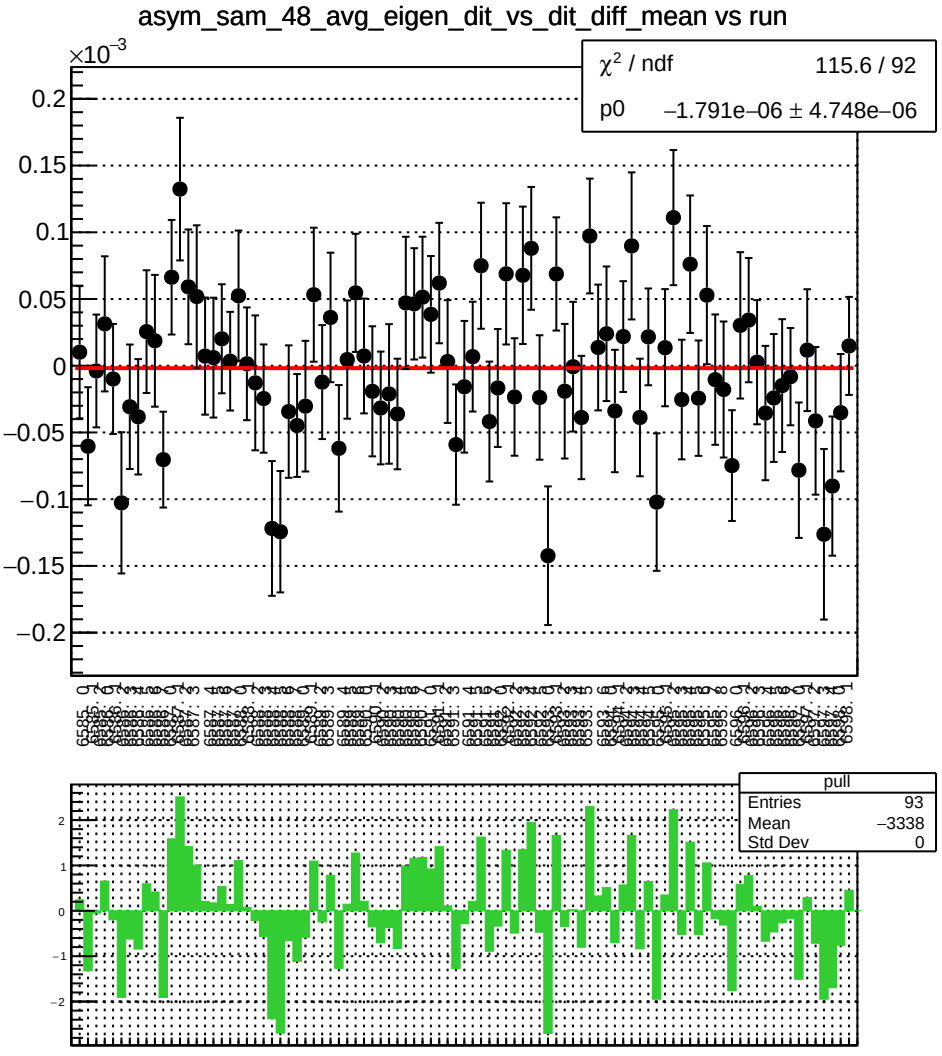

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.13 / 92
p0 0.1053 ± 0.08817
pull
Entries 93
Mean −73.88
Std Dev 0
pull1D
Entries 93
Mean 0.01781
Std Dev 0.9622

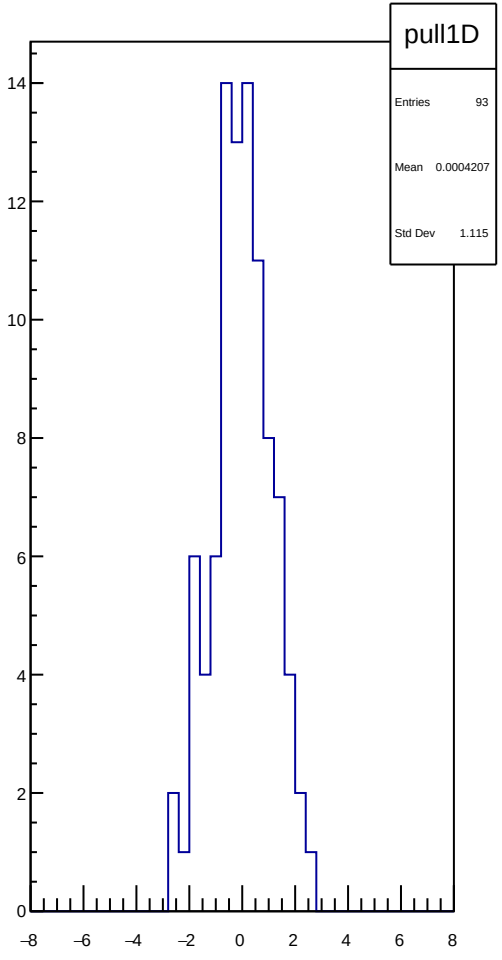

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.941e+04 / 92
p0 81.56 ± 0.06235
220
200
180
160
140
120
100
80
60

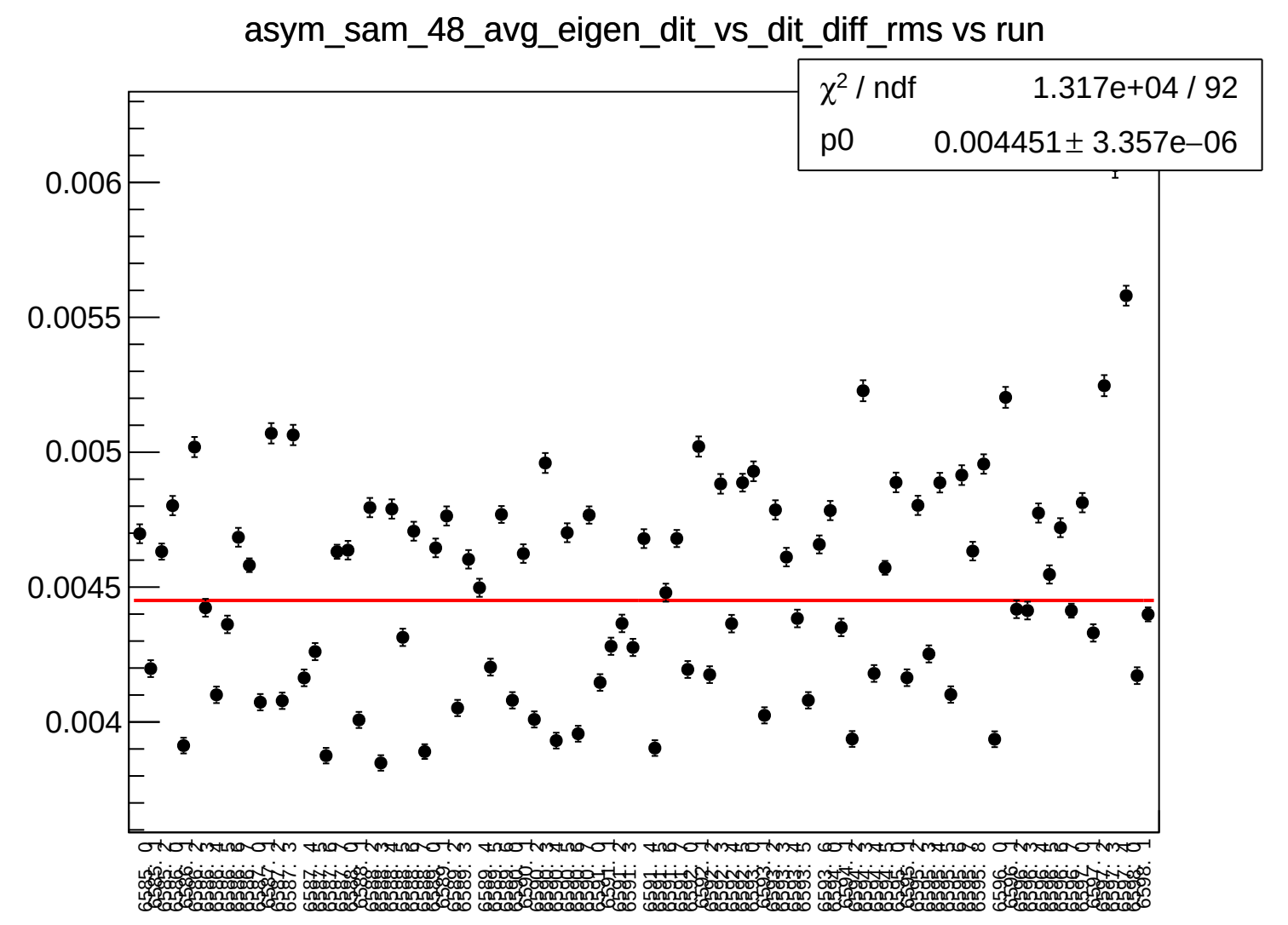

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.13 / 92
p0 0.1053 ± 0.08817
pull
Entries 93
Mean −73.88
Std Dev 0

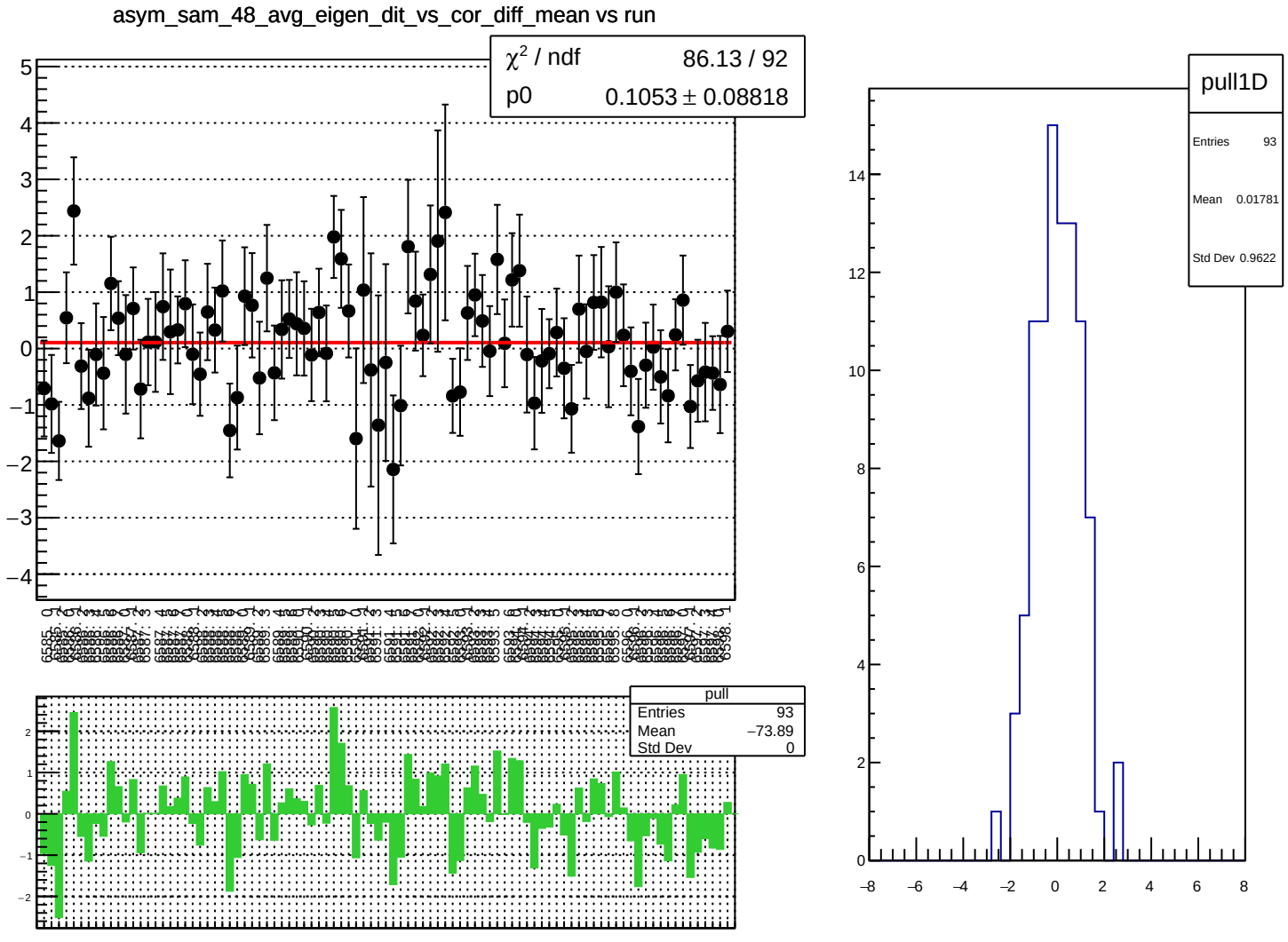

pull1D
Entries 93
Mean 0.01781
Std Dev 0.9622

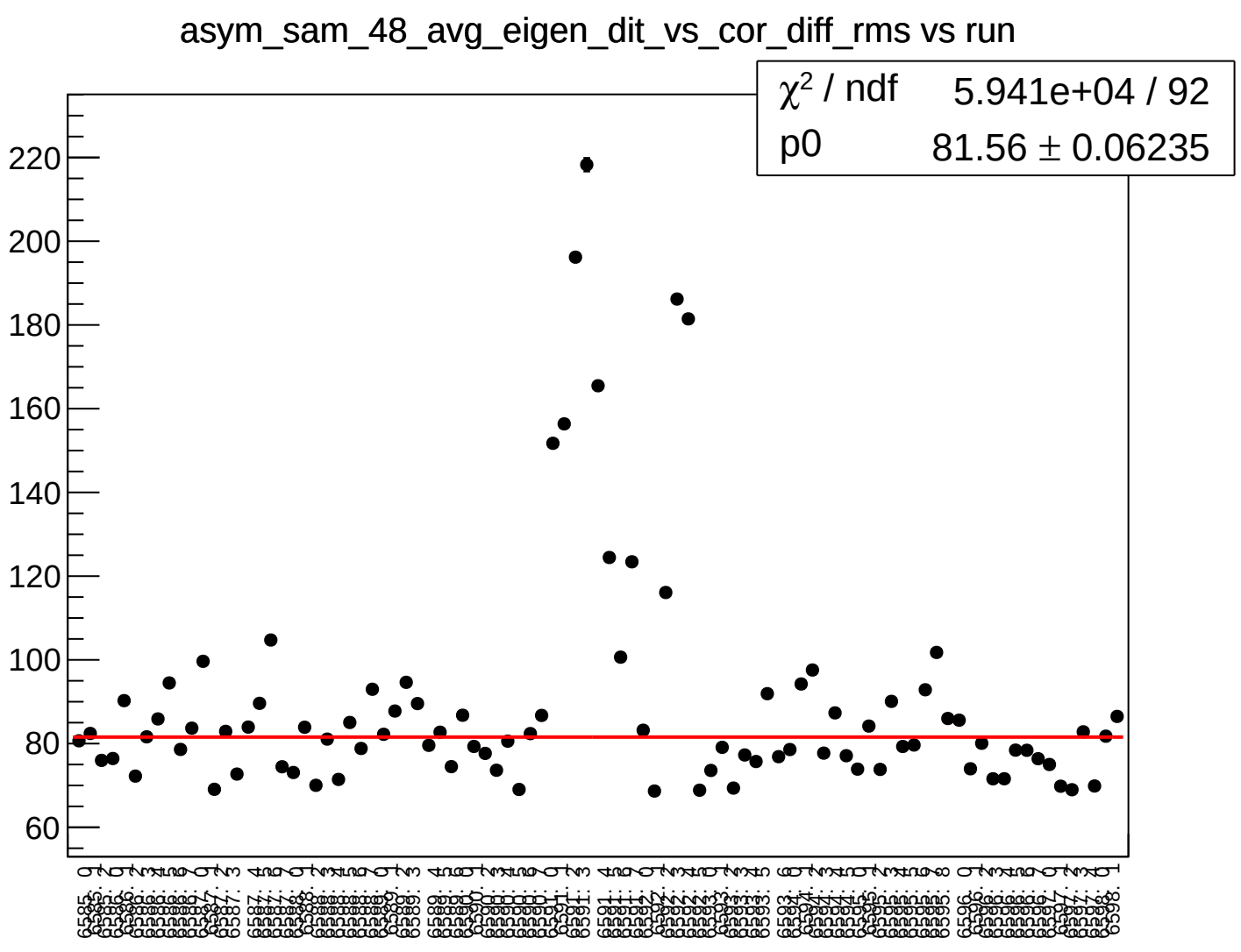

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.941e+04 / 92
p0 81.56 ± 0.06235
220
200
180
160
140
120
100
80
60

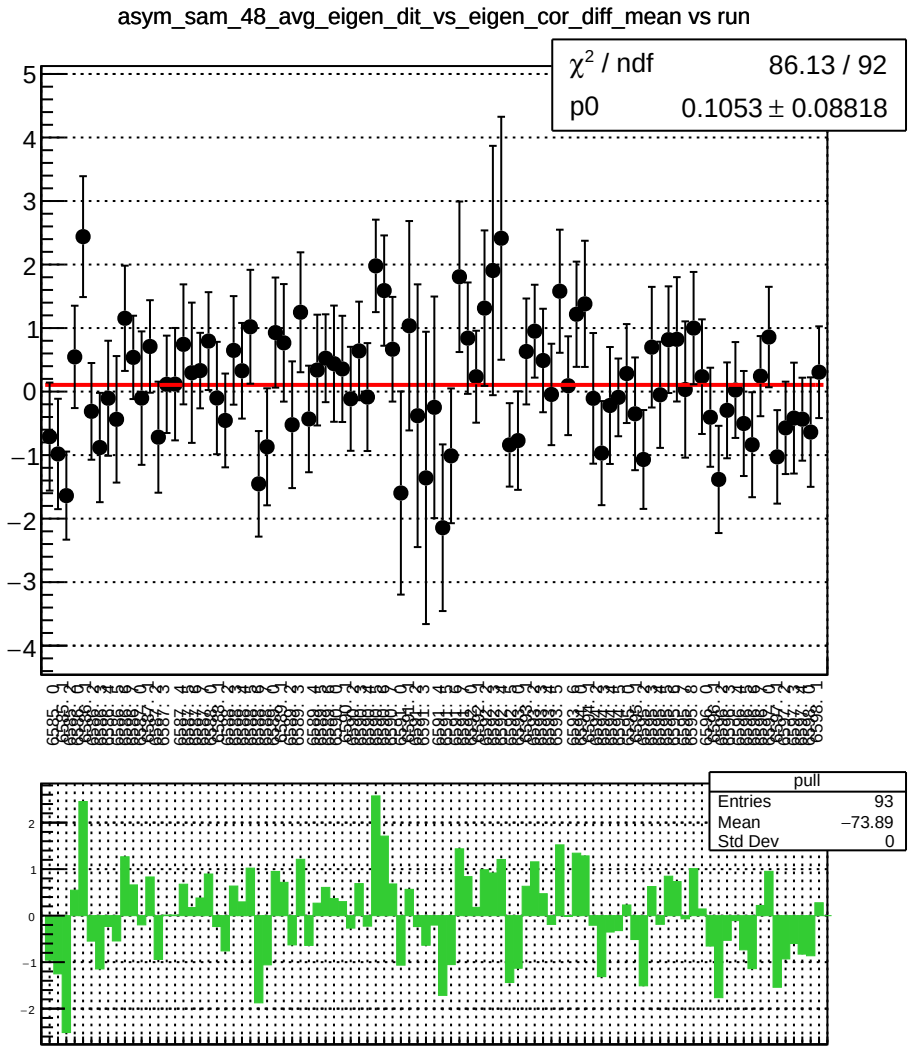

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.6 / 92
p0 −1.791e−06 ± 4.748e−06
pull
Entries 93
Mean −3338
Std Dev 0

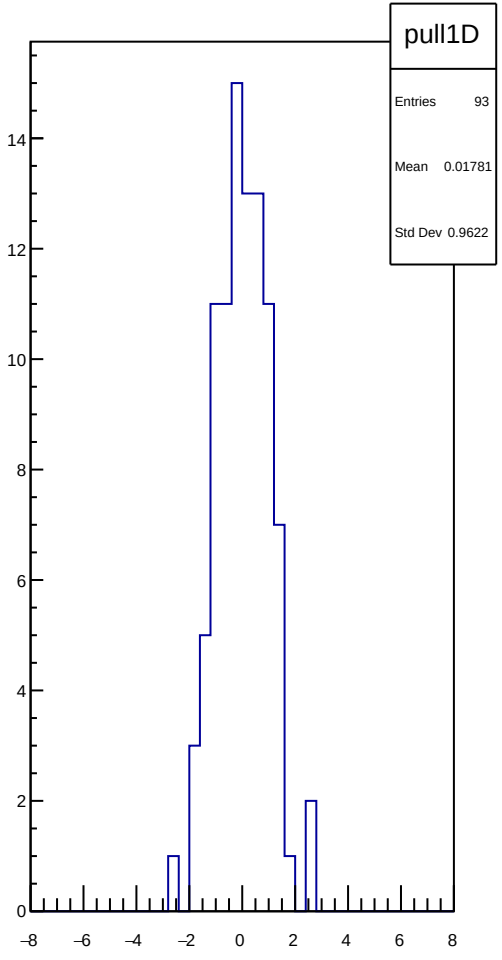

pull1D
Entries 93
Mean 0.0004207
Std Dev 1.115

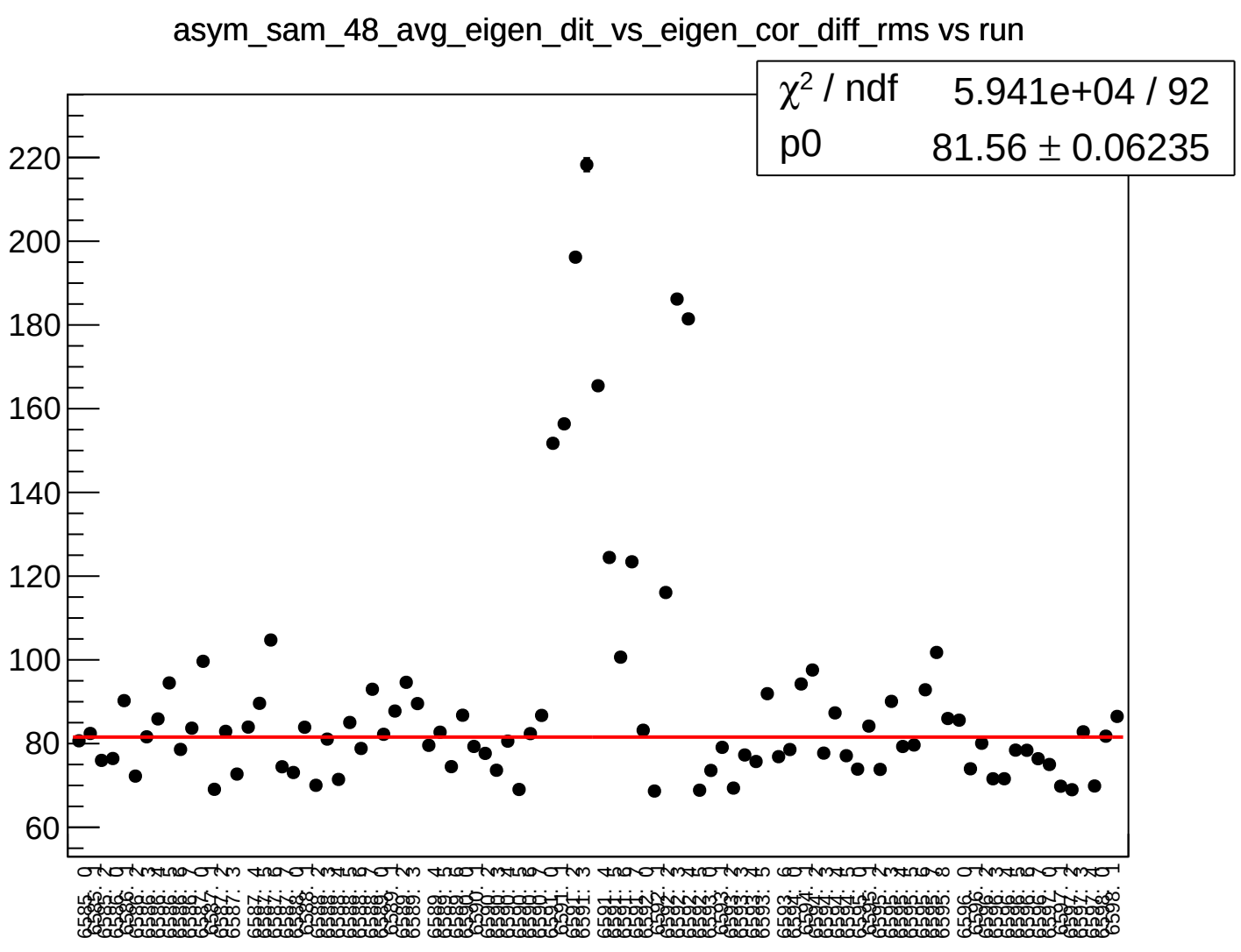

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.317e+04 / 92
p0 0.004451 ± 3.357e−06
0.006
0.0055
0.005
0.0045
0.004

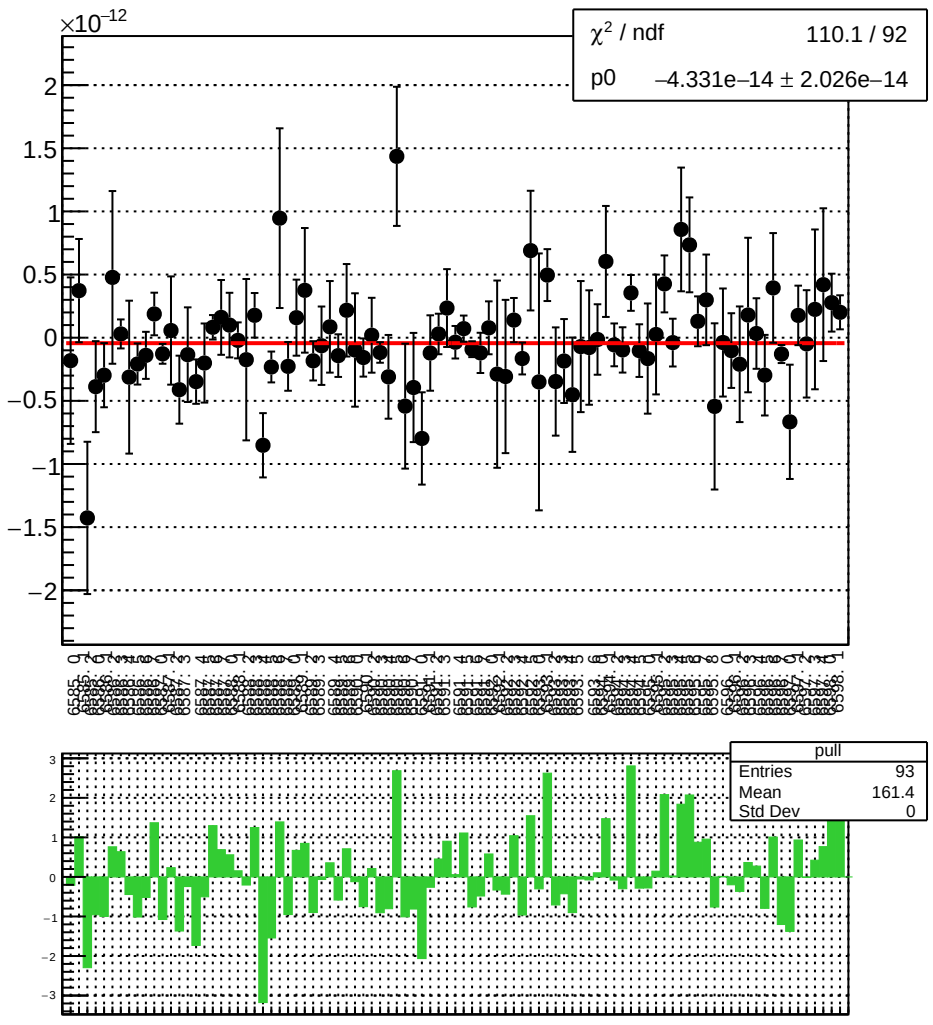

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.13 / 92
p0 0.1053 ± 0.08818
pull
Entries 93
Mean −73.89
Std Dev 0
pull1D
Entries 93
Mean 0.01781
Std Dev 0.9622

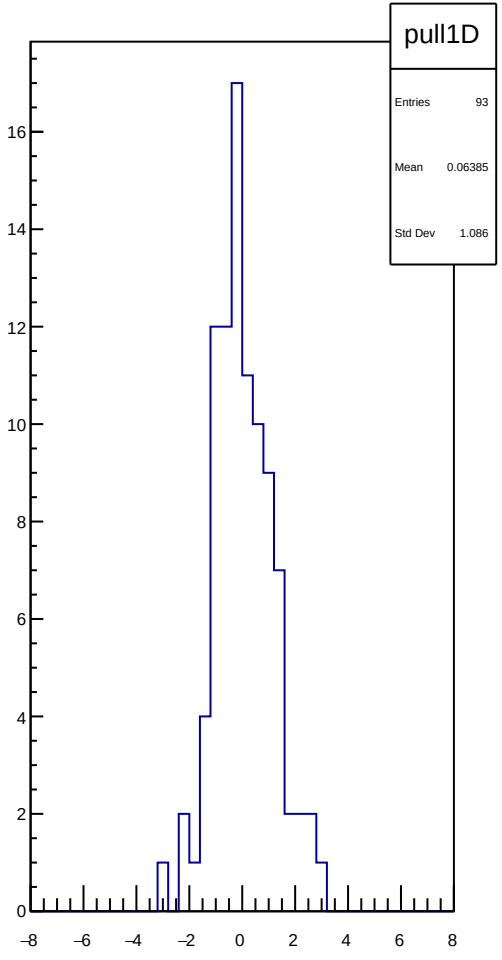

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.941e+04 / 92
p0 81.56 ± 0.06235
220
200
180
160
140
120
100
80
60

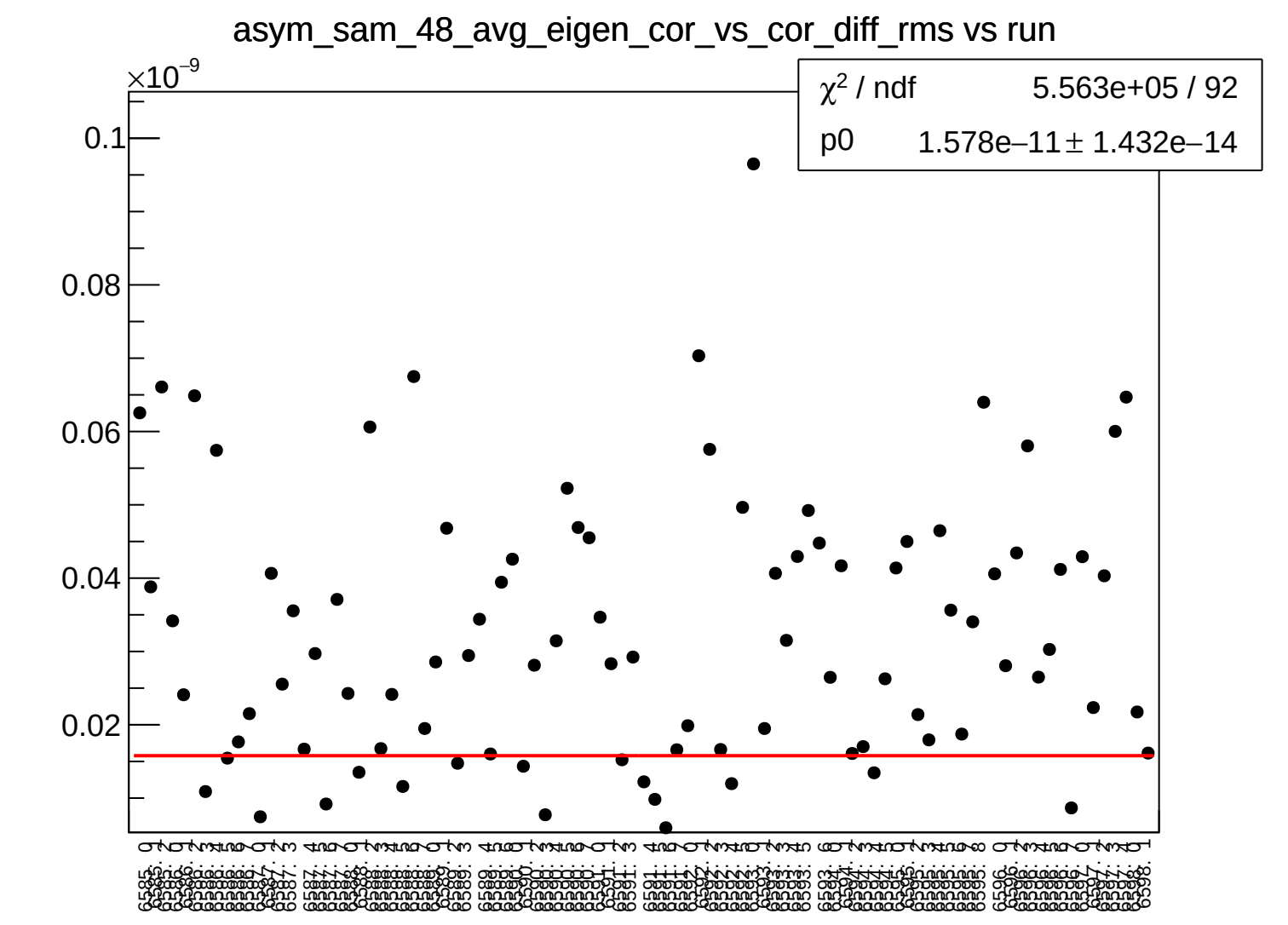

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.13 / 92
p0 0.1053 ± 0.08818
pull
Entries 93
Mean −73.89
Std Dev 0

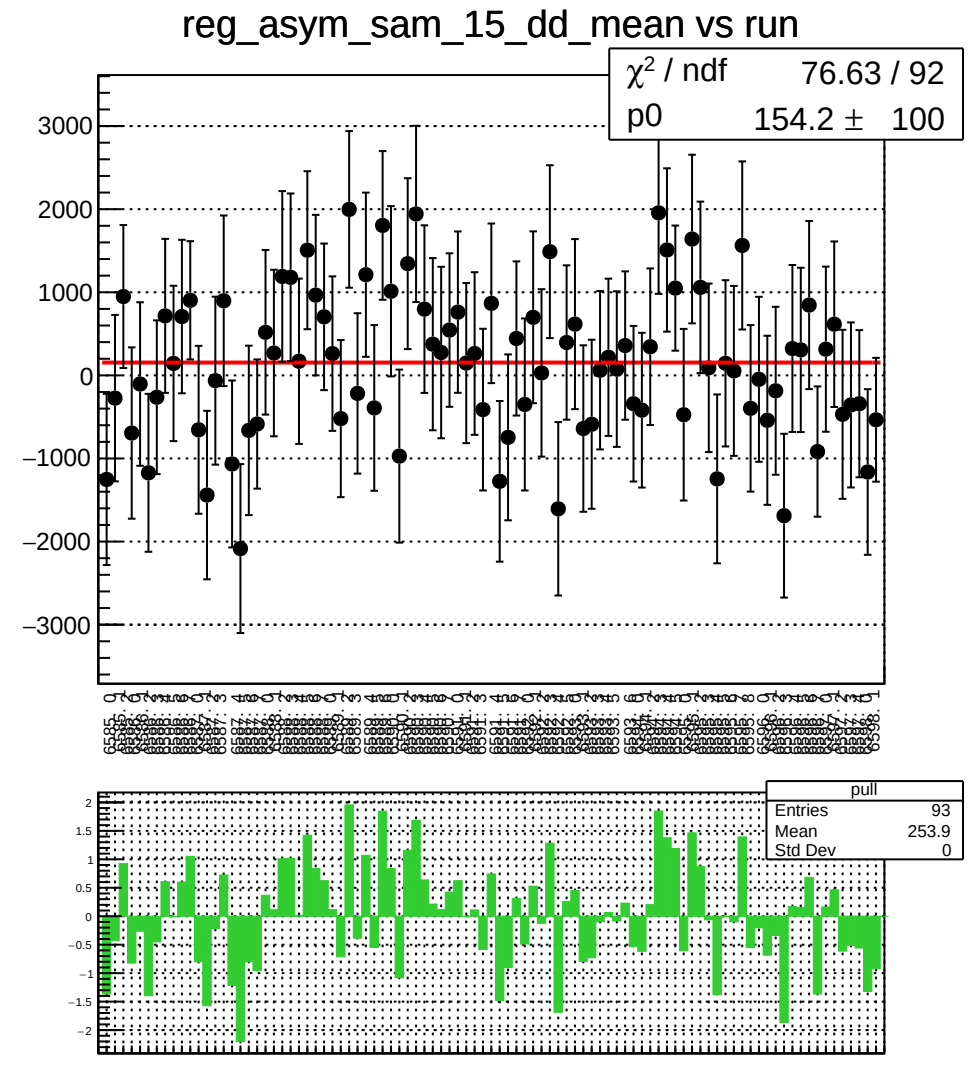

pull1D
Entries 93
Mean 0.01781
Std Dev 0.9622

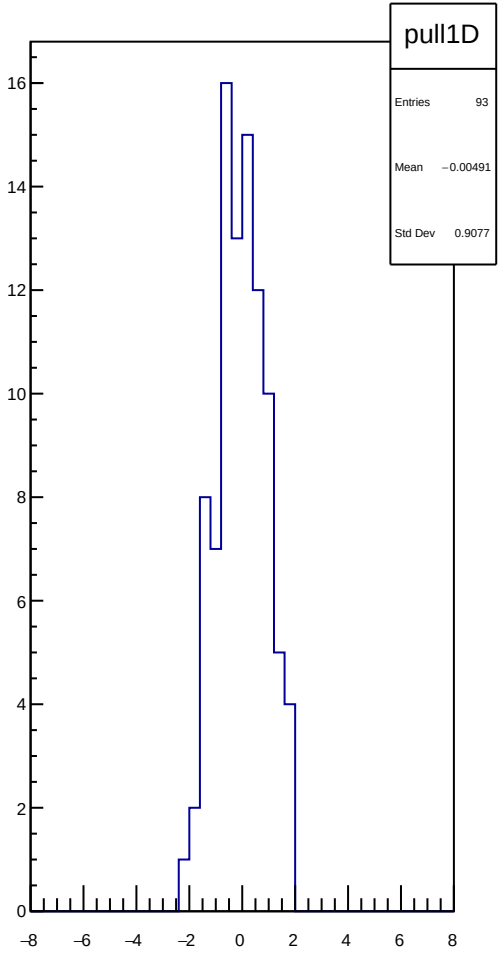

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.941e+04 / 92
p0 81.56 ± 0.06235
220
200
180
160
140
120
100
80
60

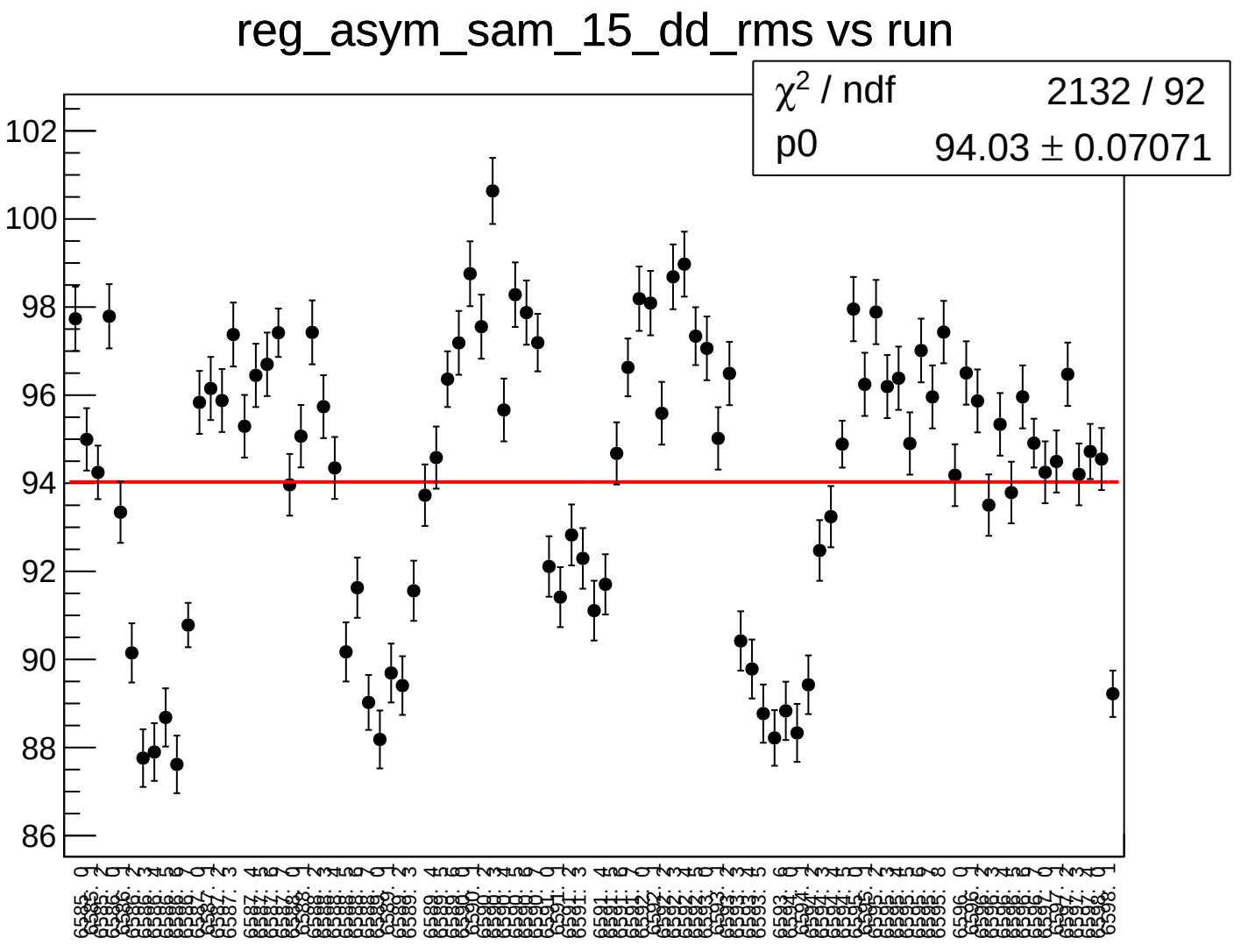

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 110.1 / 92
p0 −4.331e−14 ± 2.026e−14
pull
Entries 93
Mean 161.4
Std Dev 0

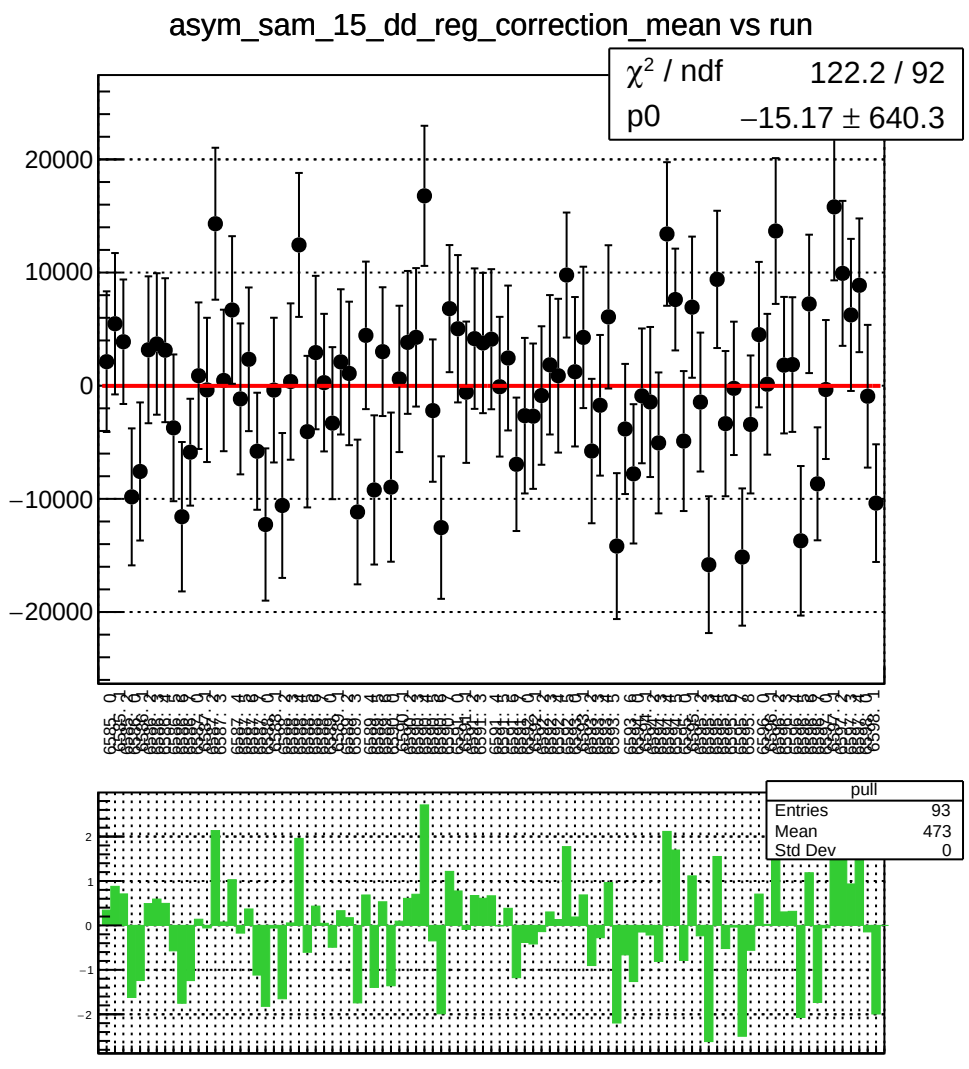

pull1D
Entries 93
Mean 0.06385
Std Dev 1.086

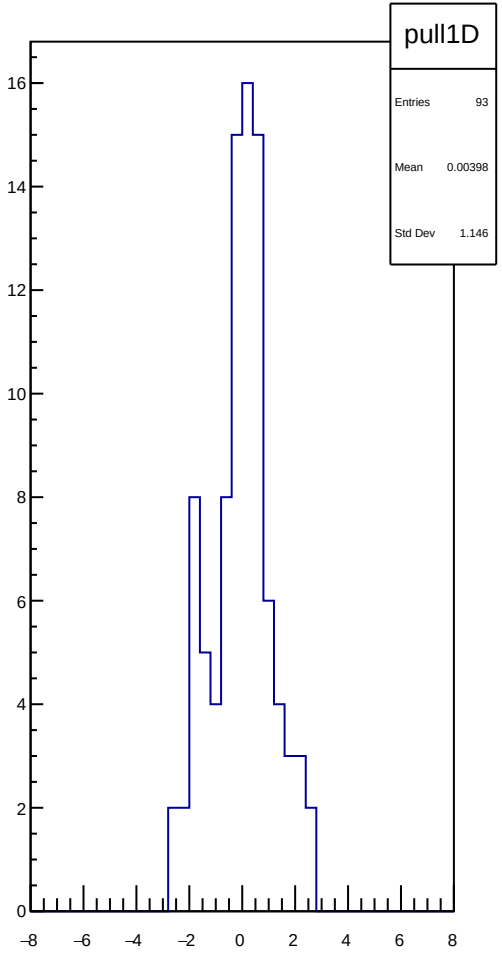

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.563e+05 / 92
p0 1.578e−11 ± 1.432e−14
0.1
0.08
0.06
0.04
0.02

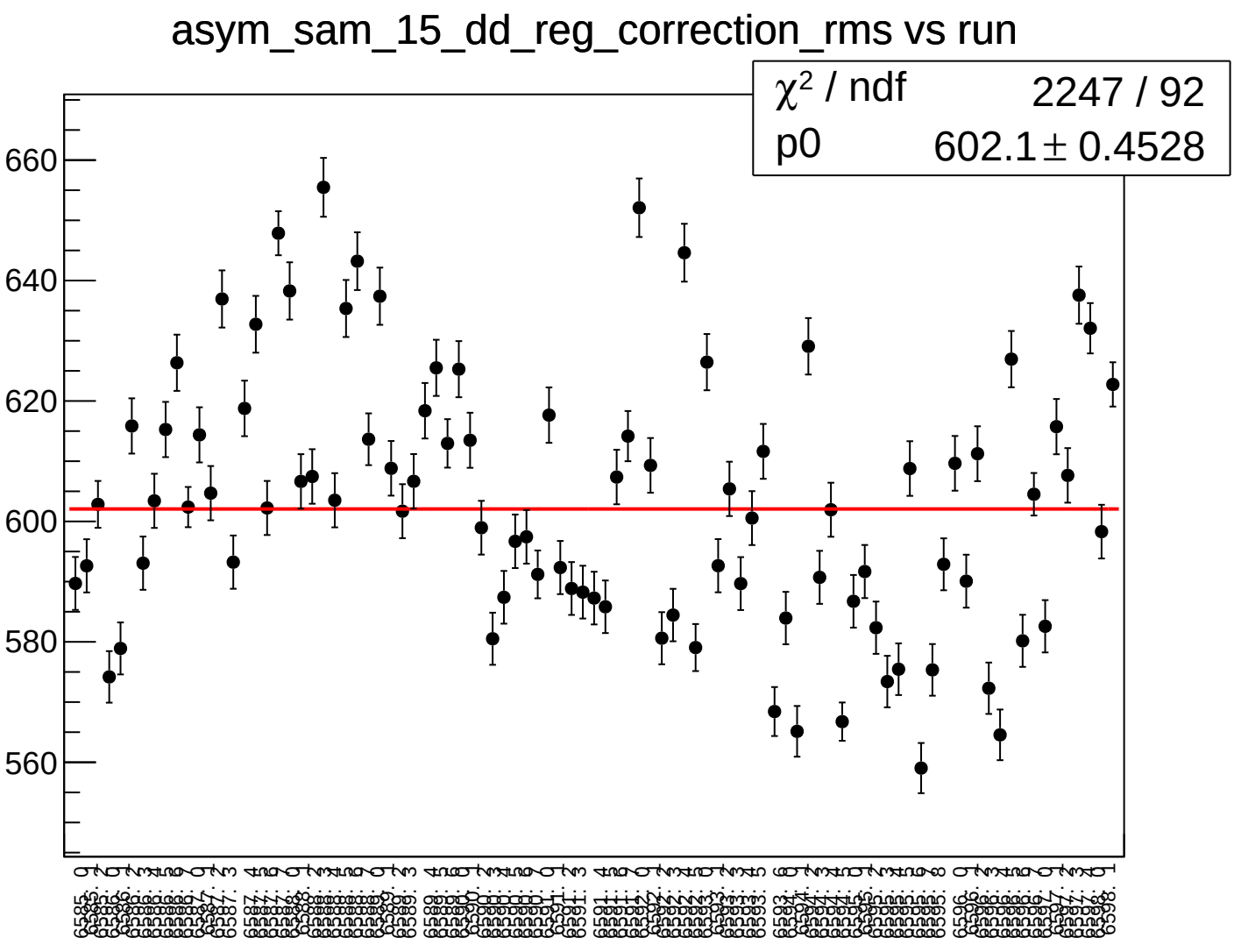

reg_asym_sam_15_dd_mean vs run
χ² / ndf 76.63 / 92
p0 154.2 ± 100
pull
Entries 93
Mean 253.9
Std Dev 0

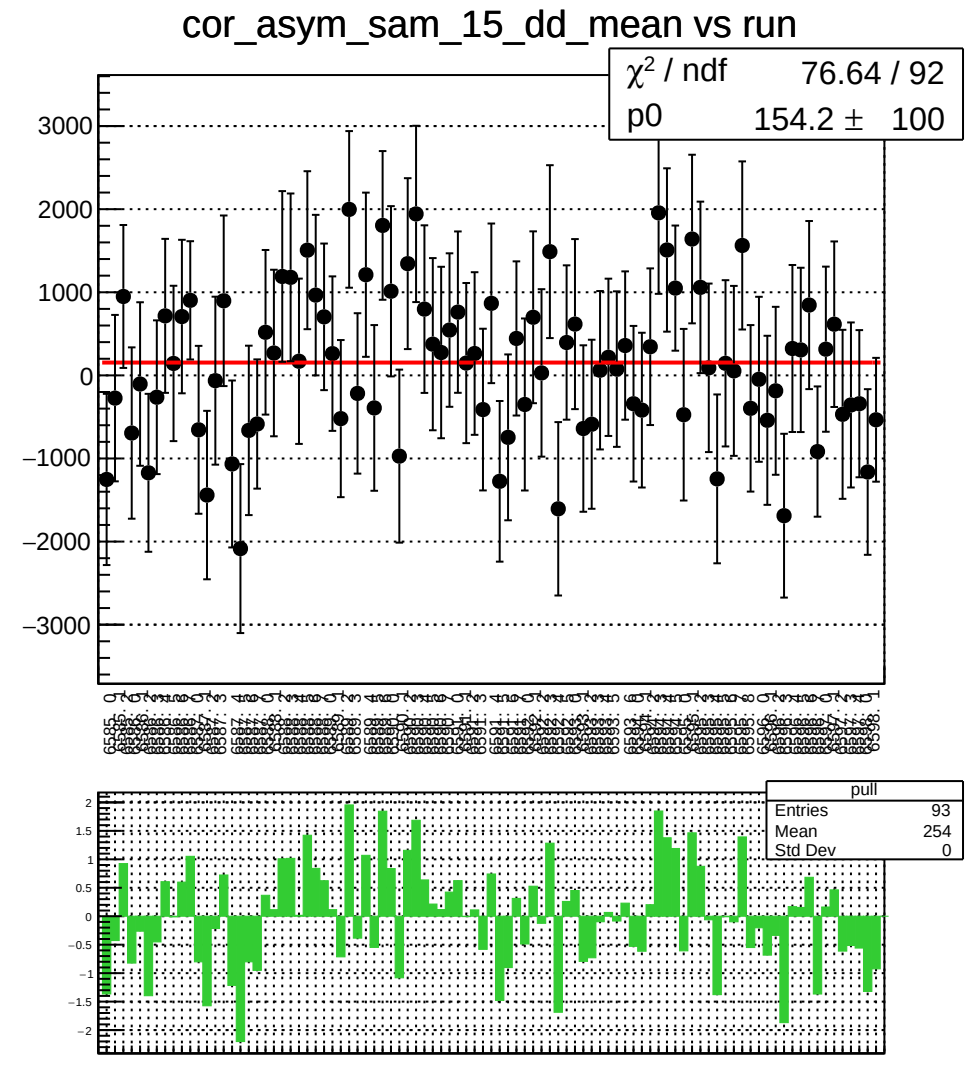

pull1D
Entries 93
Mean −0.00491
Std Dev 0.9077

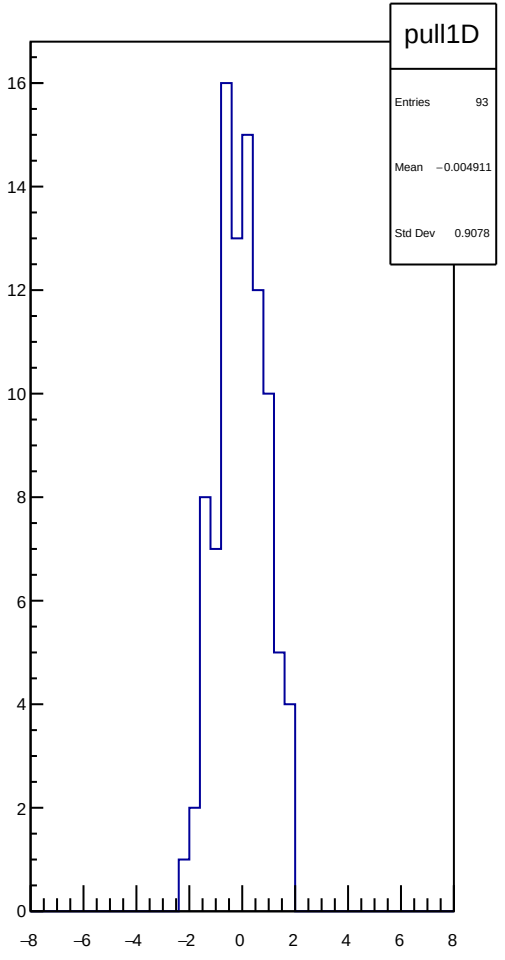

reg_asym_sam_15_dd_rms vs run
χ² / ndf 2132 / 92
p0 94.03 ± 0.07071
102
100
98
96
94
92
90
88
86

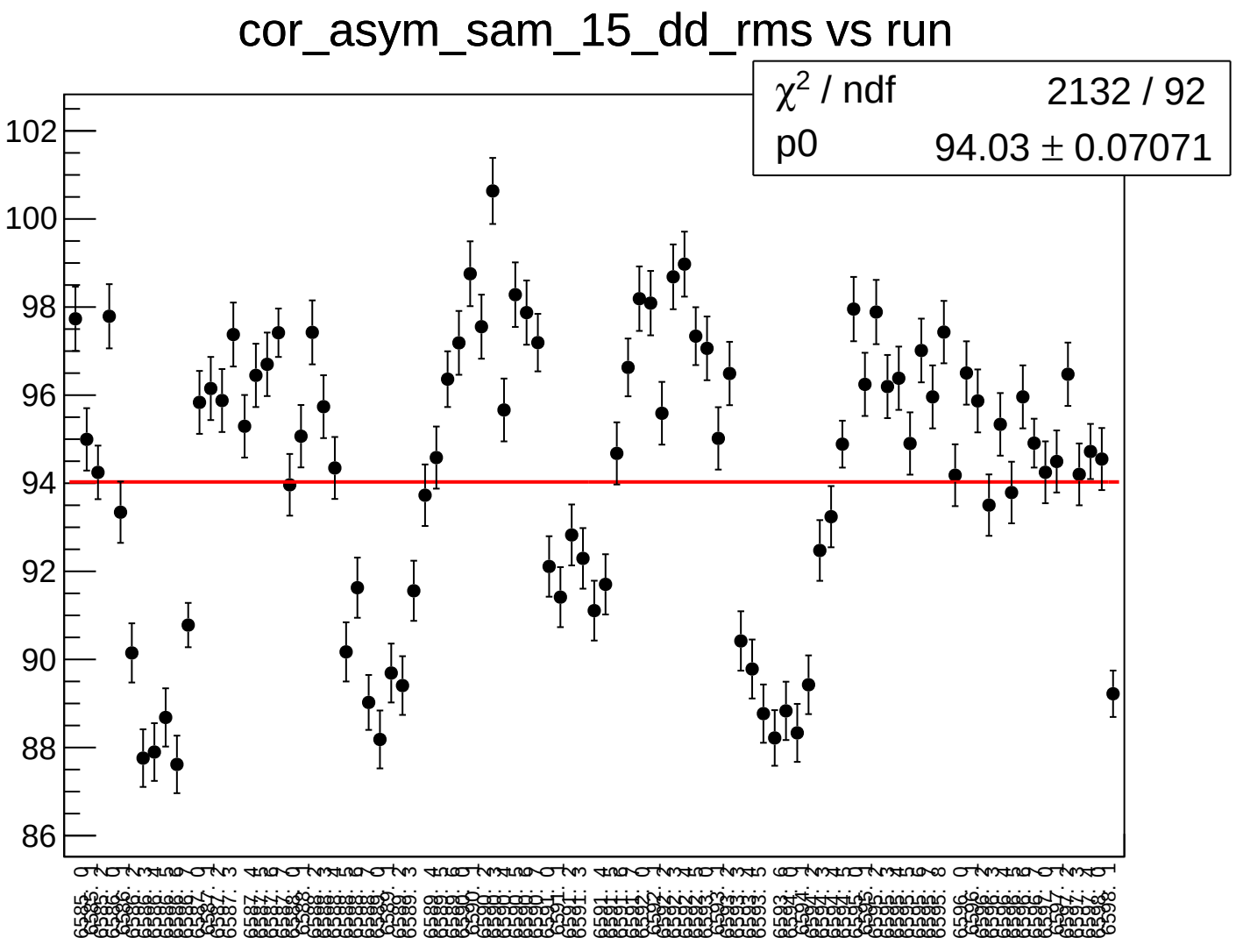

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 122.2 / 92
p0 −15.17 ± 640.3
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 473
Std Dev 0
2
1
0
−1
−2

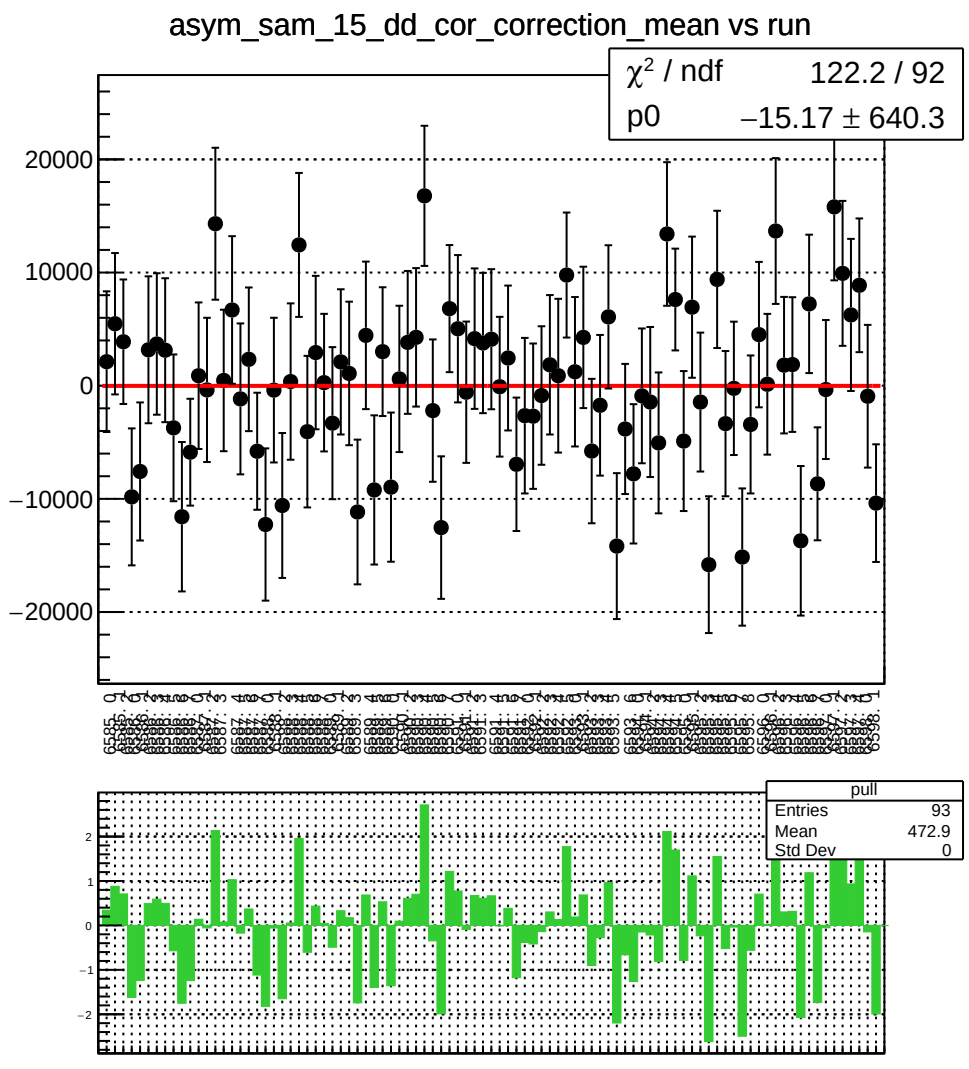

pull1D
Entries 93
Mean 0.00398
Std Dev 1.146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

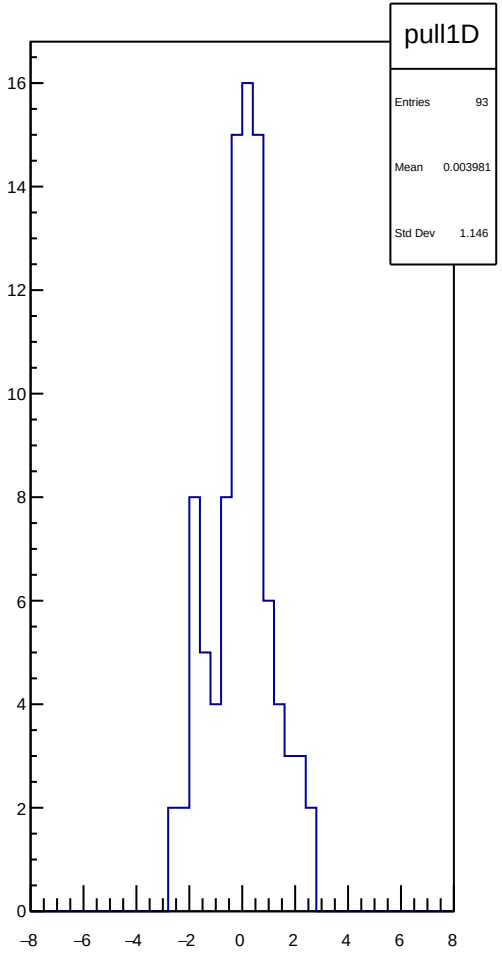

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2247 / 92
p0 602.1 ± 0.4528
660
640
620
600
580
560

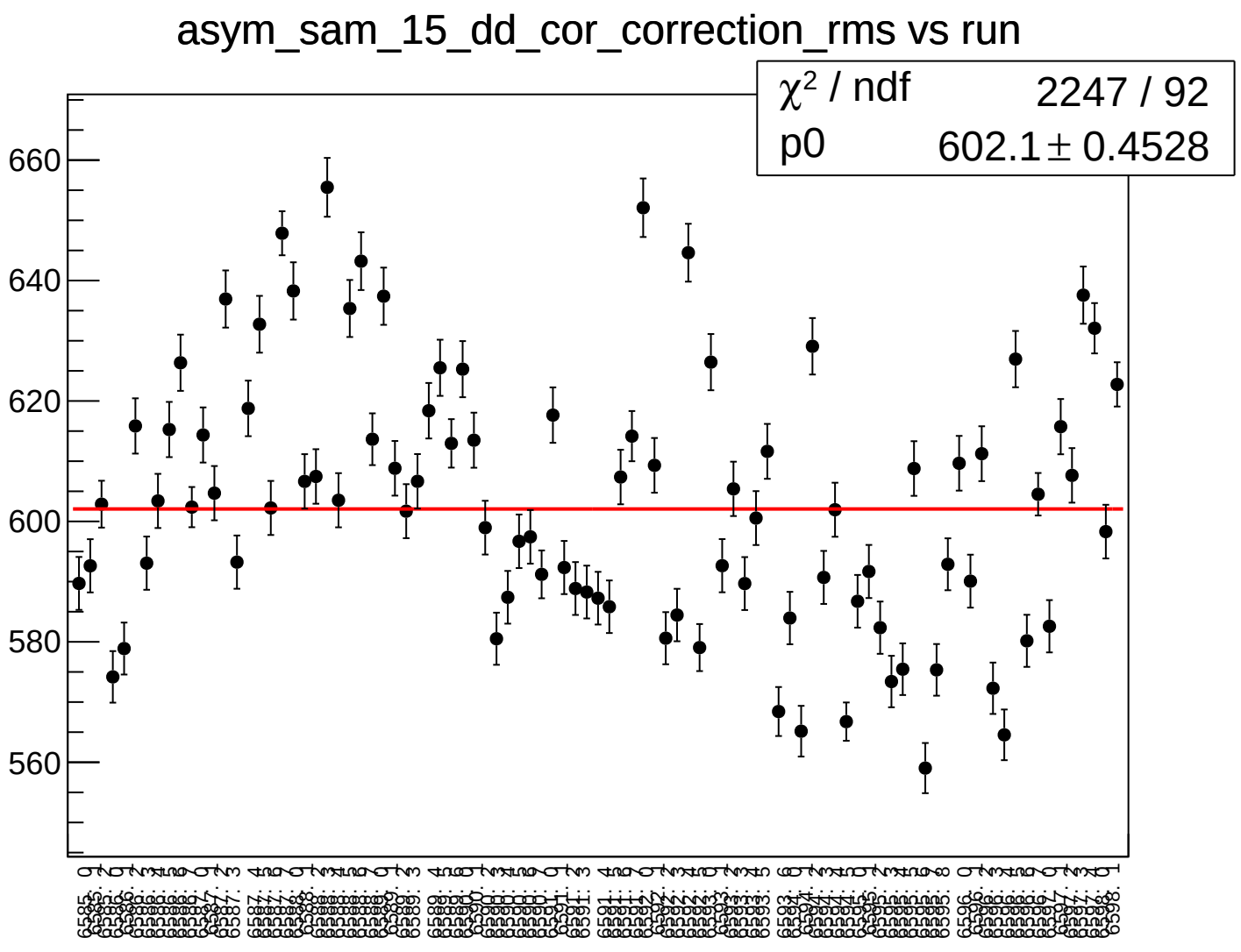

cor_asym_sam_15_dd_mean vs run
χ² / ndf 76.64 / 92
p0 154.2 ± 100
pull
Entries 93
Mean 254
Std Dev 0

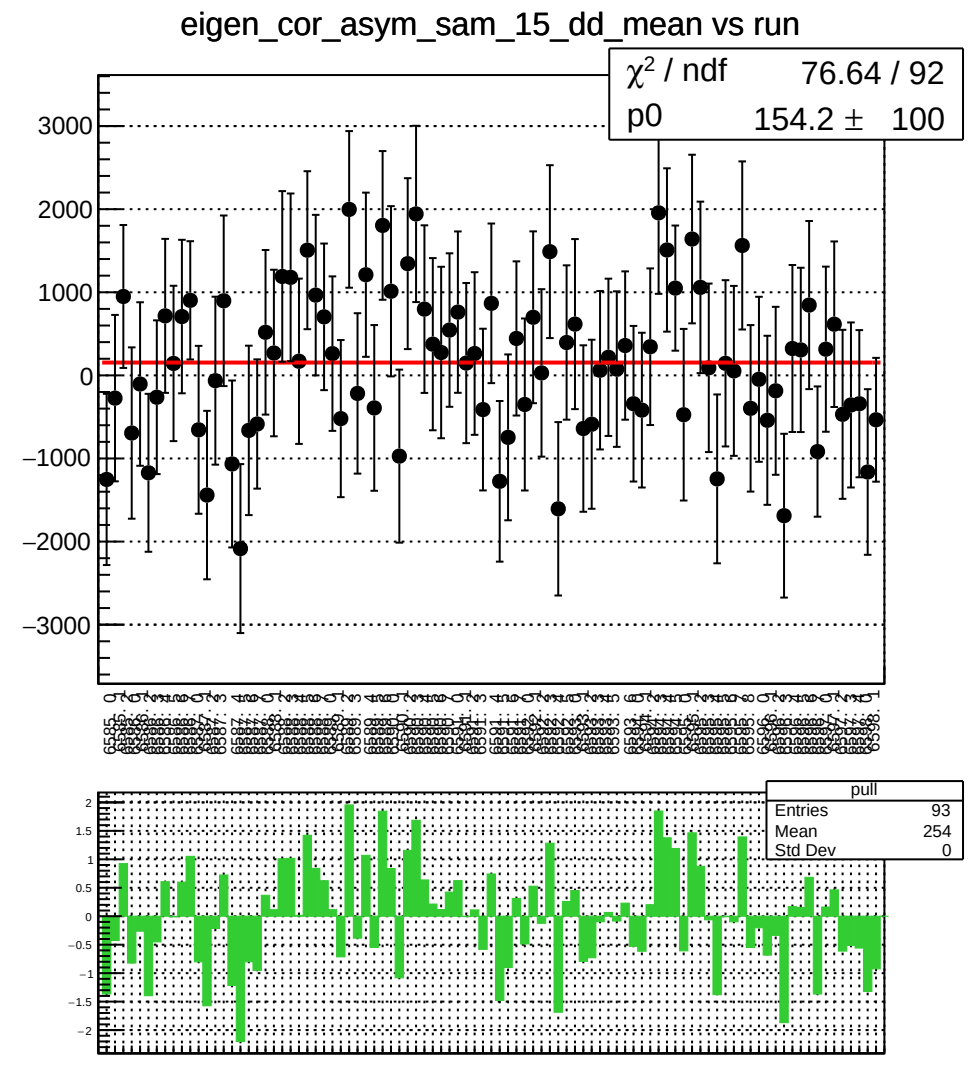

pull1D
Entries 93
Mean −0.004911
Std Dev 0.9078

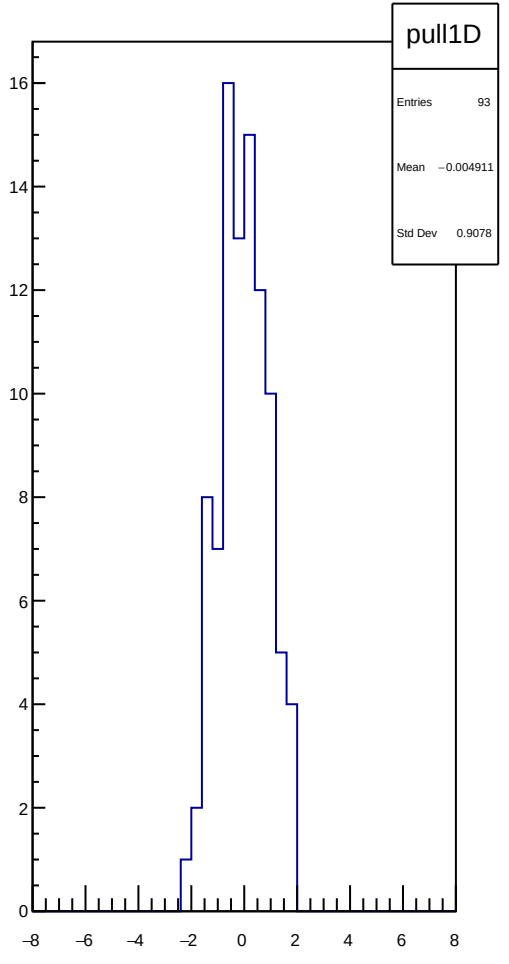

cor_asym_sam_15_dd_rms vs run
χ² / ndf 2132 / 92
p0 94.03 ± 0.07071
102
100
98
96
94
92
90
88
86

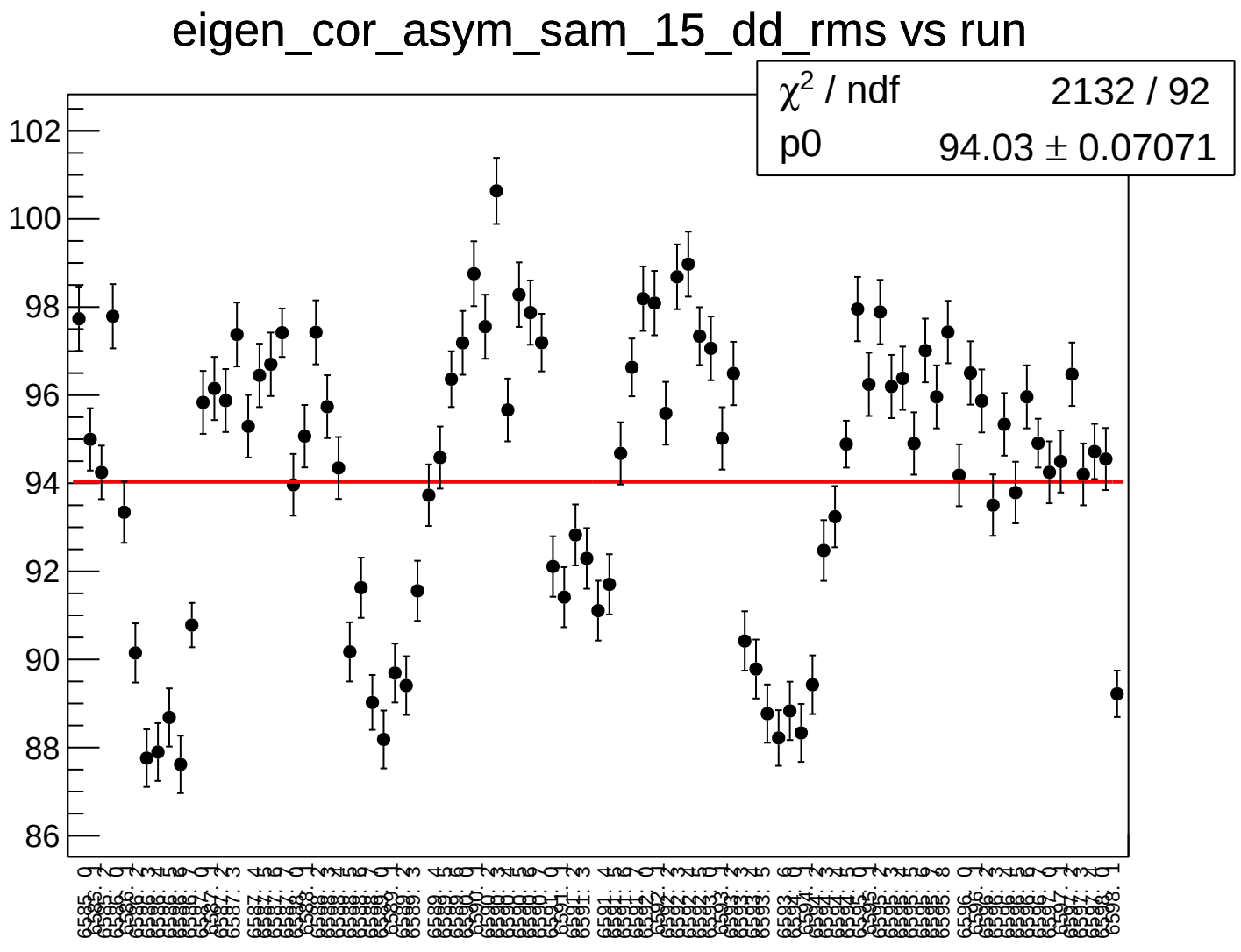

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 122.2 / 92
p0 −15.17 ± 640.3
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 472.9
Std Dev 0
2
1
0
−1
−2

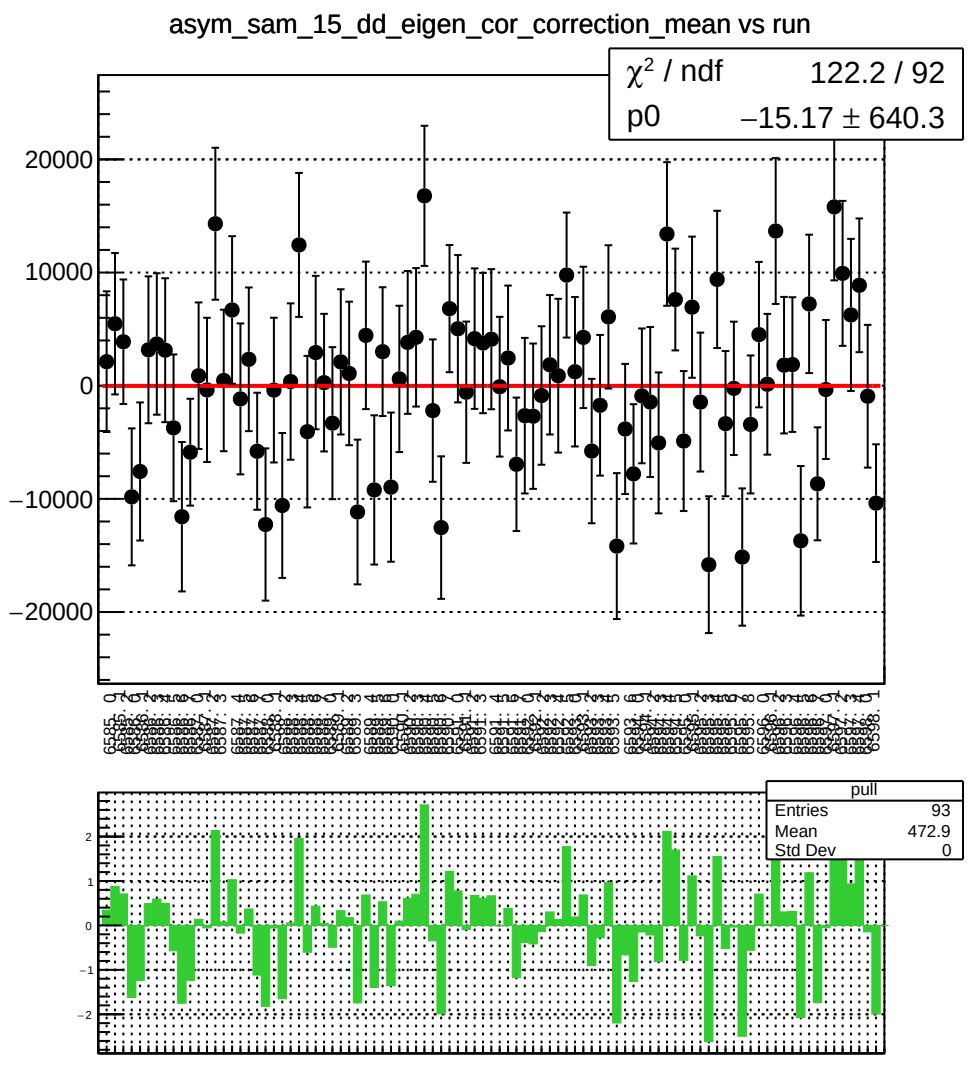

pull1D
Entries 93
Mean 0.003981
Std Dev 1.146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

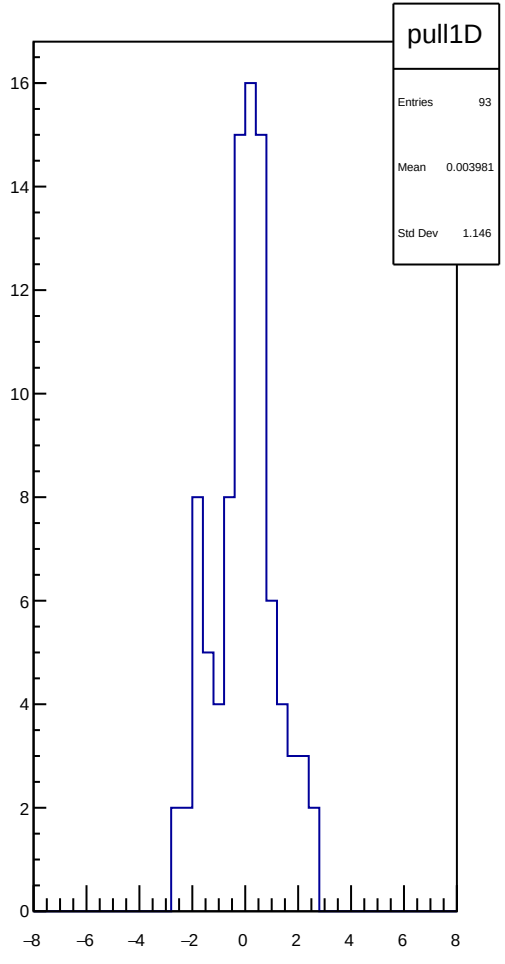

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2247 / 92
p0 602.1 ± 0.4528
660
640
620
600
580
560

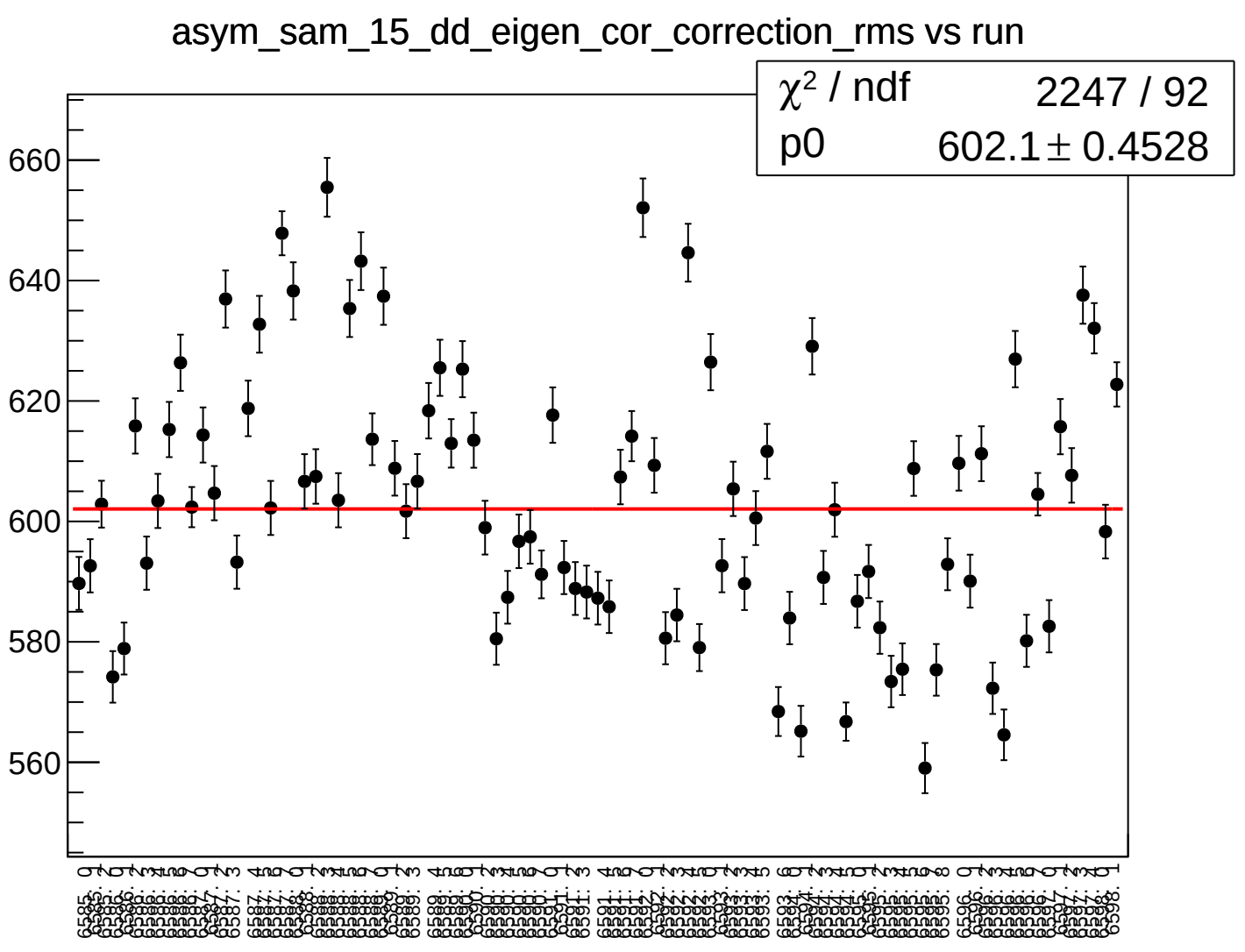

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 76.64 / 92
p0 154.2 ± 100
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 254
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

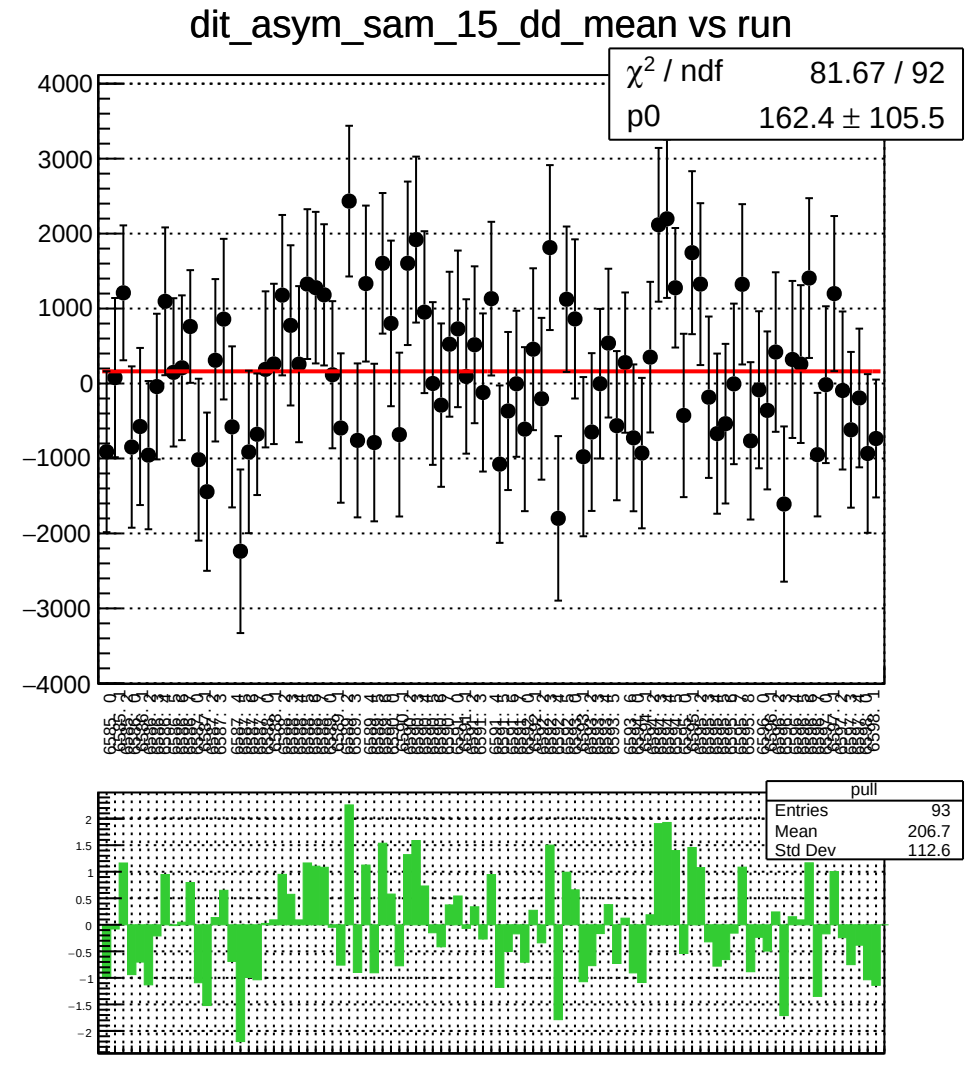

pull1D
Entries 93
Mean −0.004911
Std Dev 0.9078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

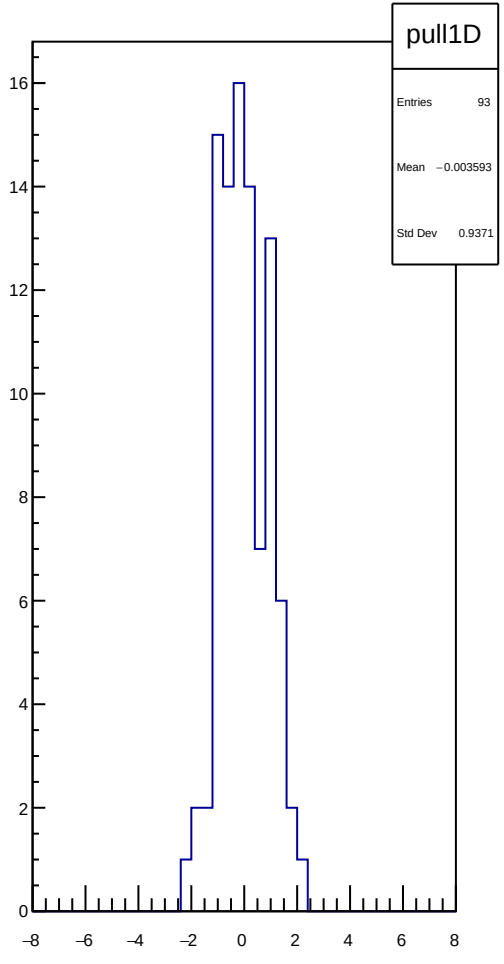

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 2132 / 92
p0 94.03 ± 0.07071
102
100
98
96
94
92
90
88
86

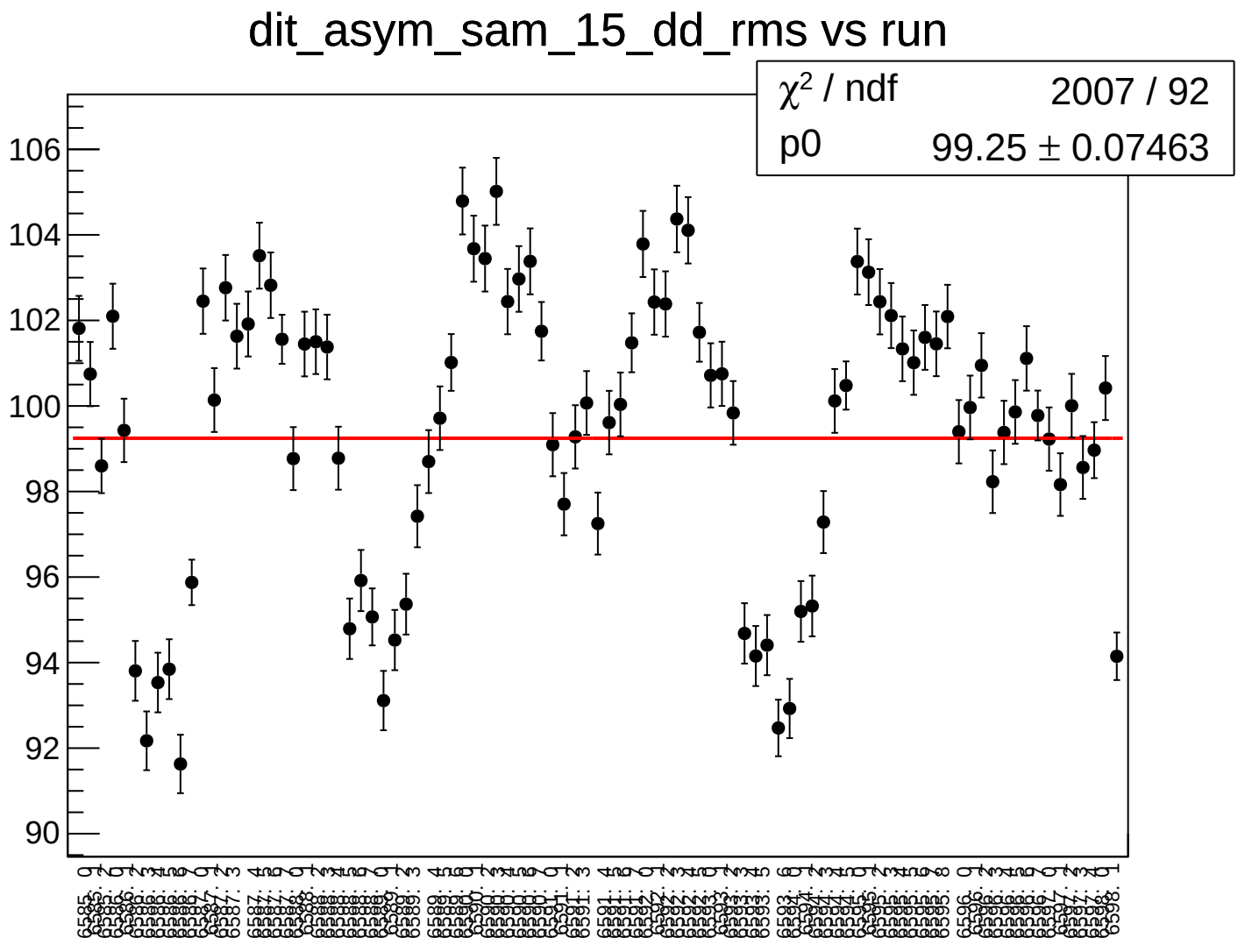

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 122.2 / 92
p0 −15.17 ± 640.3
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 472.9
Std Dev 0
2
1
0
−1
−2

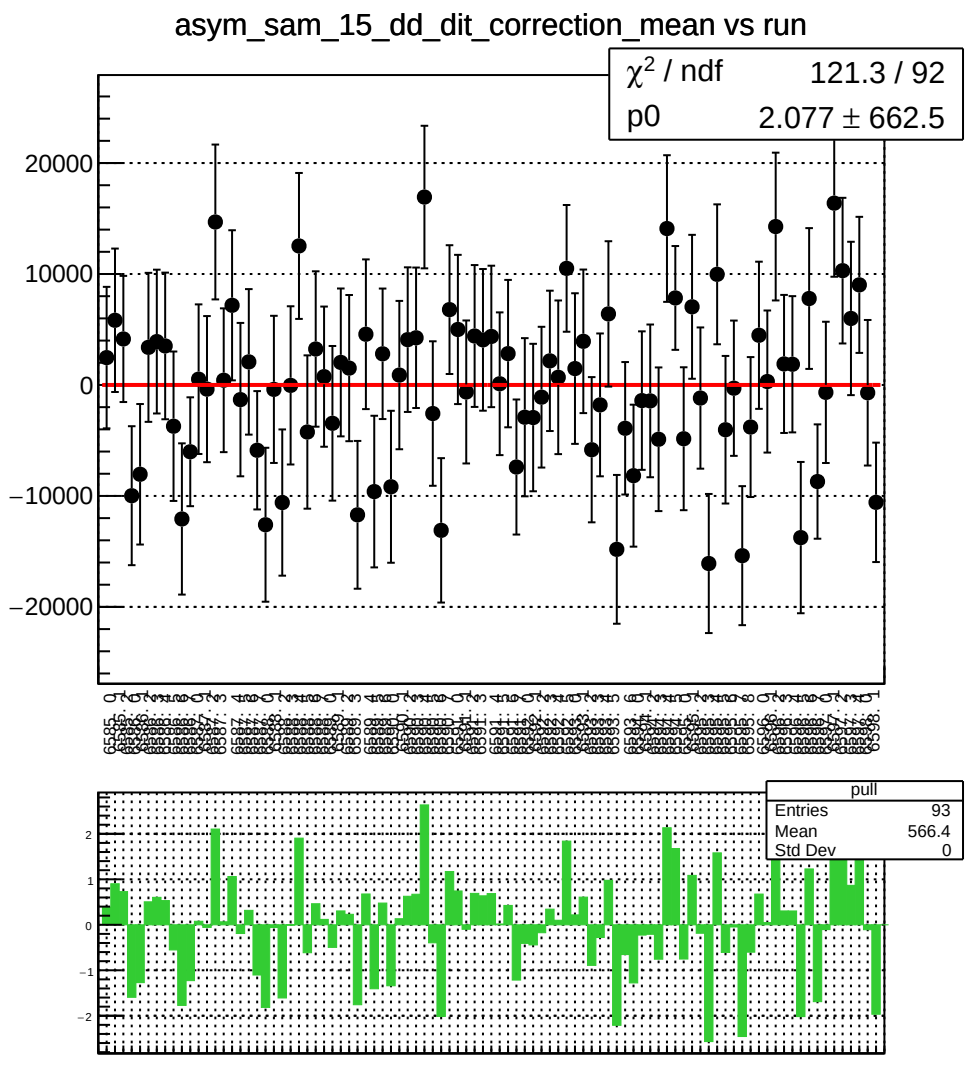

pull1D
Entries 93
Mean 0.003981
Std Dev 1.146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

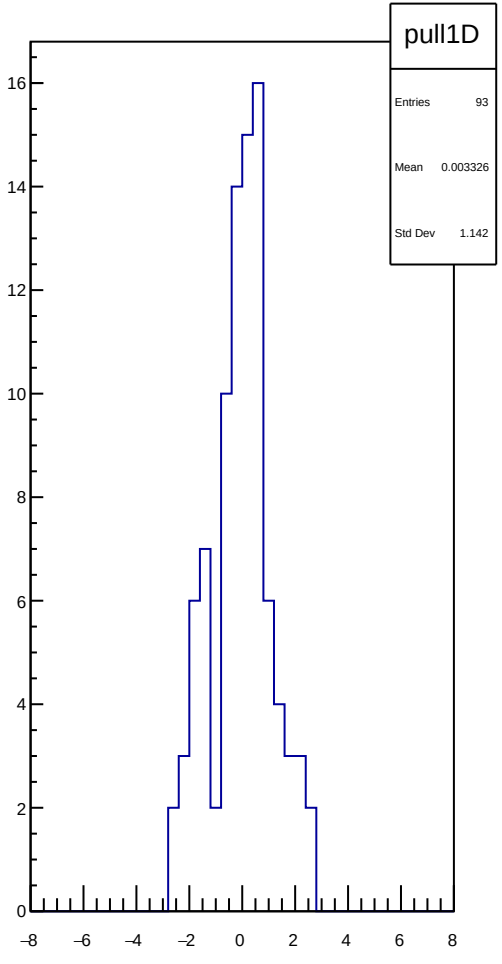

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2247 / 92
p0 602.1 ± 0.4528
660
640
620
600
580
560

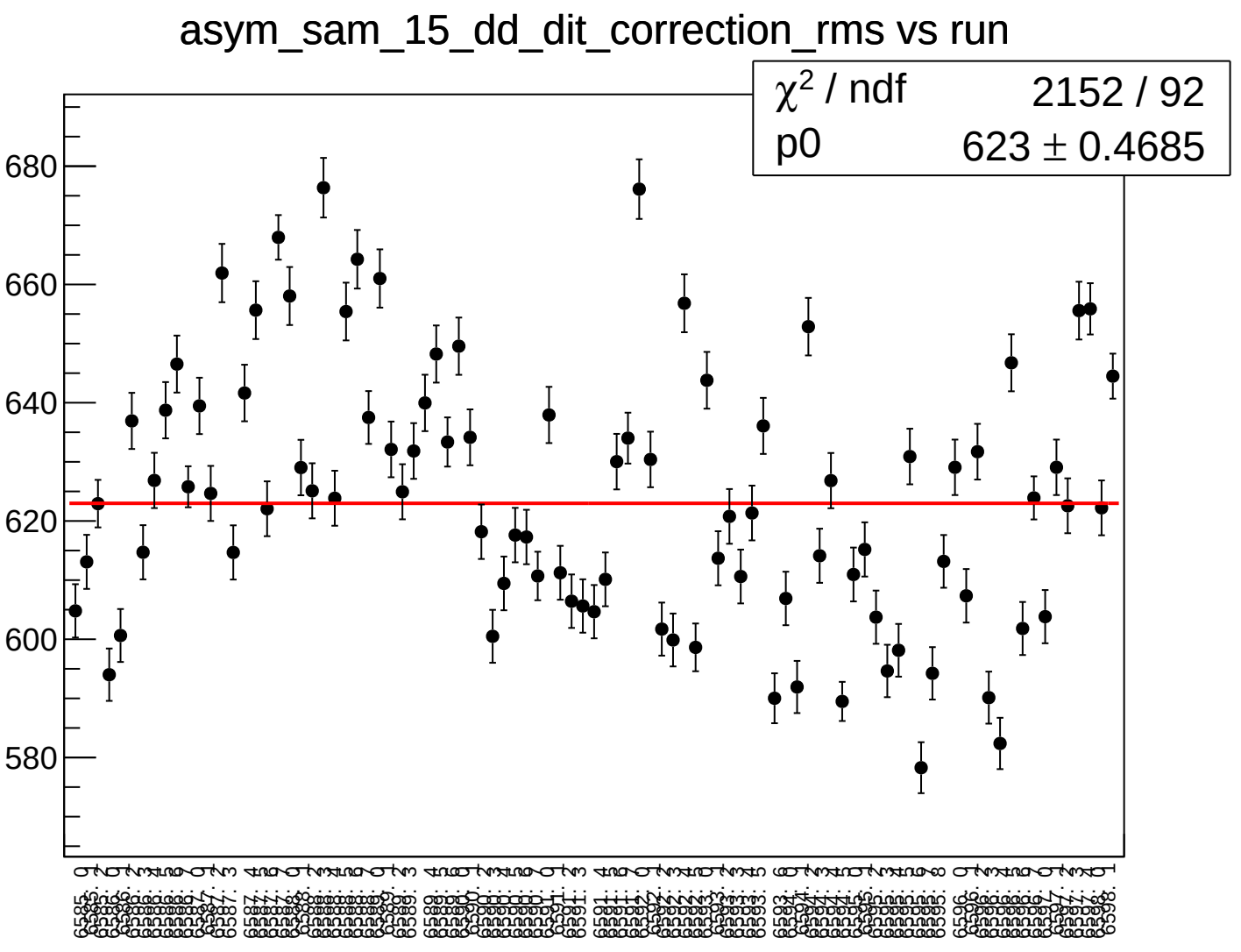

dit_asym_sam_15_dd_mean vs run
χ² / ndf 81.67 / 92
p0 162.4 ± 105.5
pull
Entries 93
Mean 206.7
Std Dev 112.6

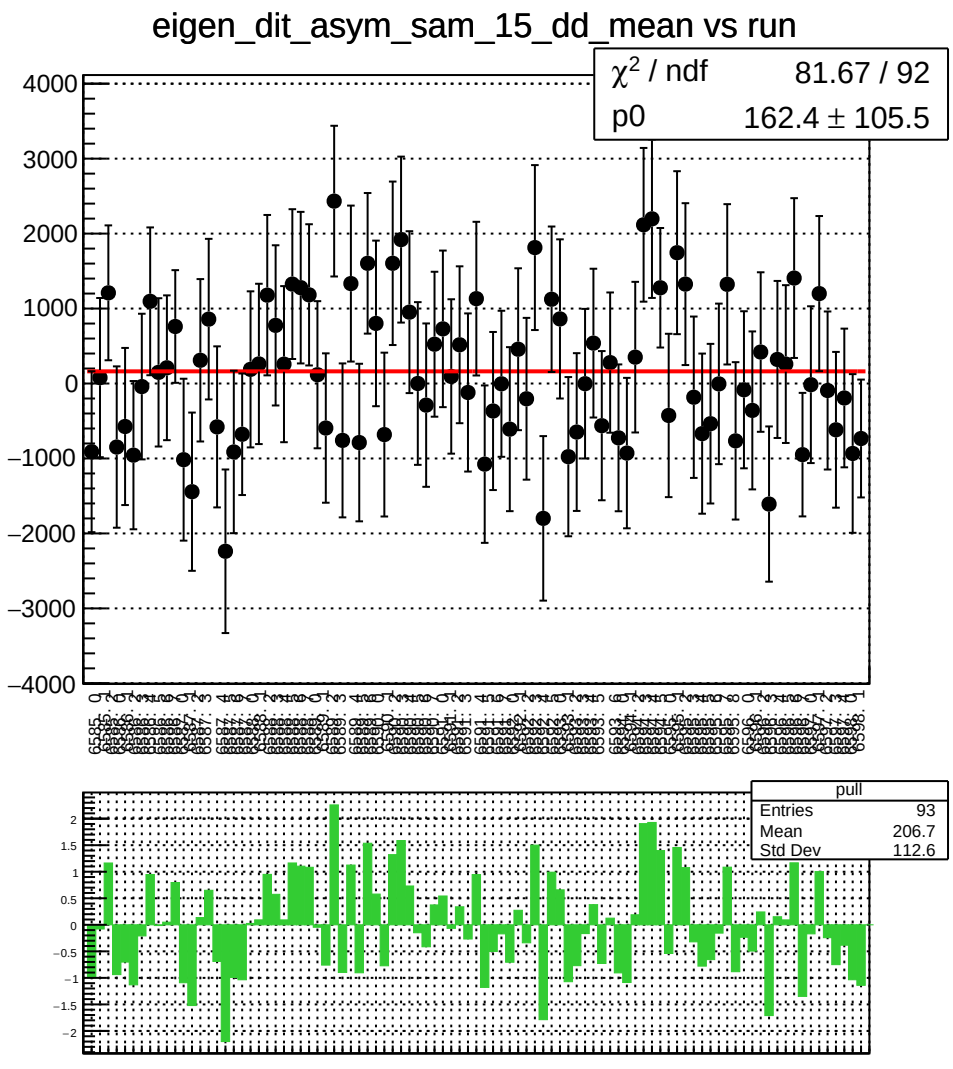

pull1D
Entries 93
Mean −0.003593
Std Dev 0.9371

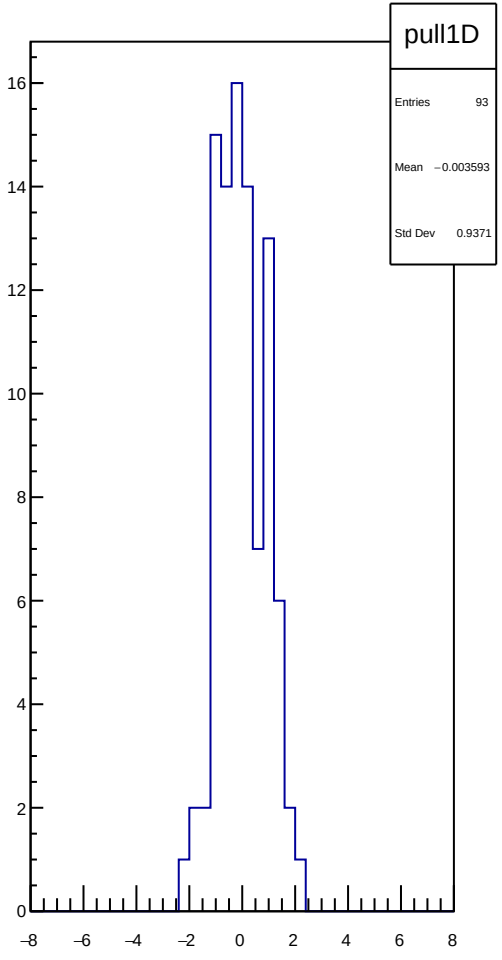

dit_asym_sam_15_dd_rms vs run
χ² / ndf 2007 / 92
p0 99.25 ± 0.07463
106
104
102
100
98
96
94
92
90

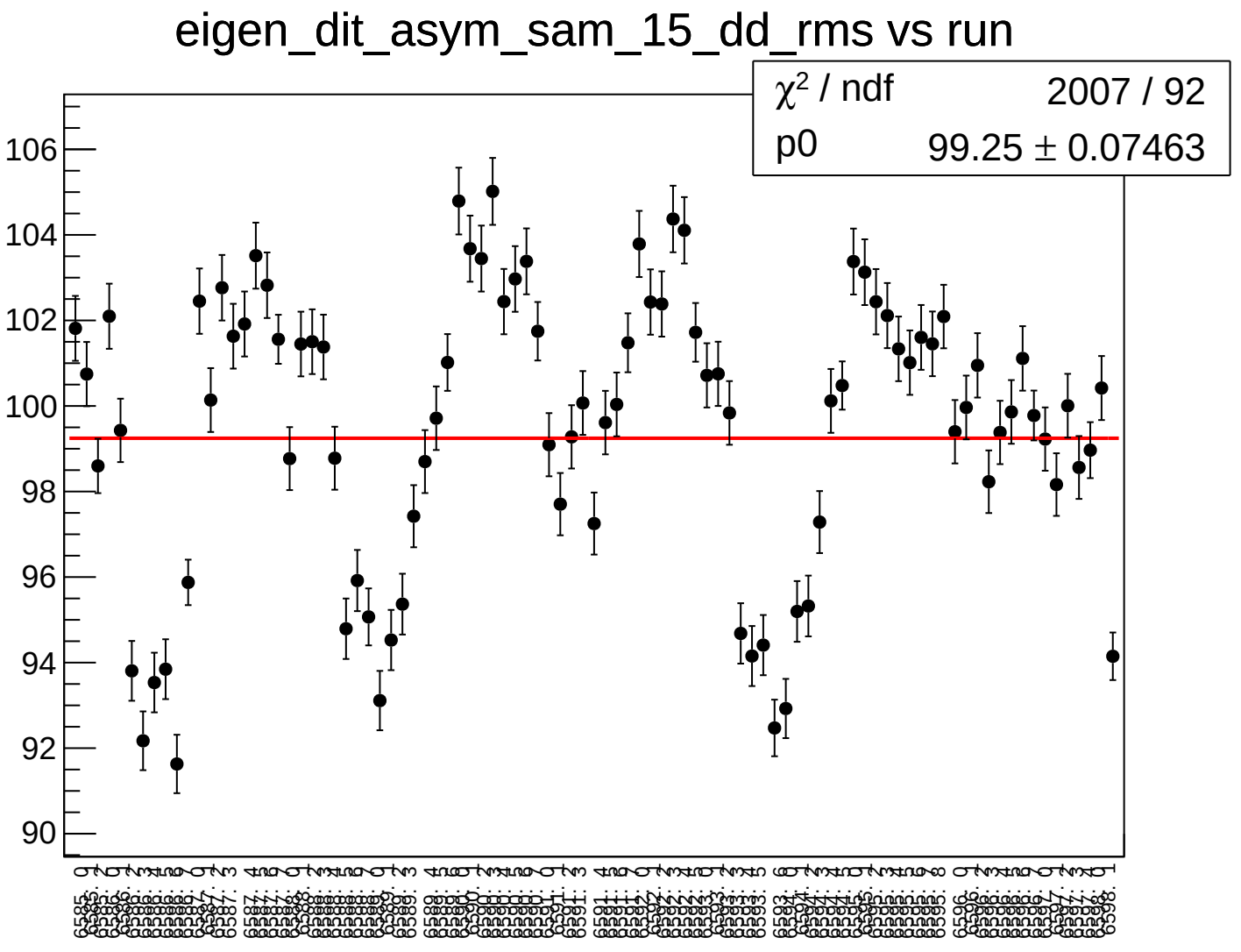

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 121.3 / 92
p0 2.077 ± 662.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 566.4
Std Dev 0
2
1
0
−1
−2

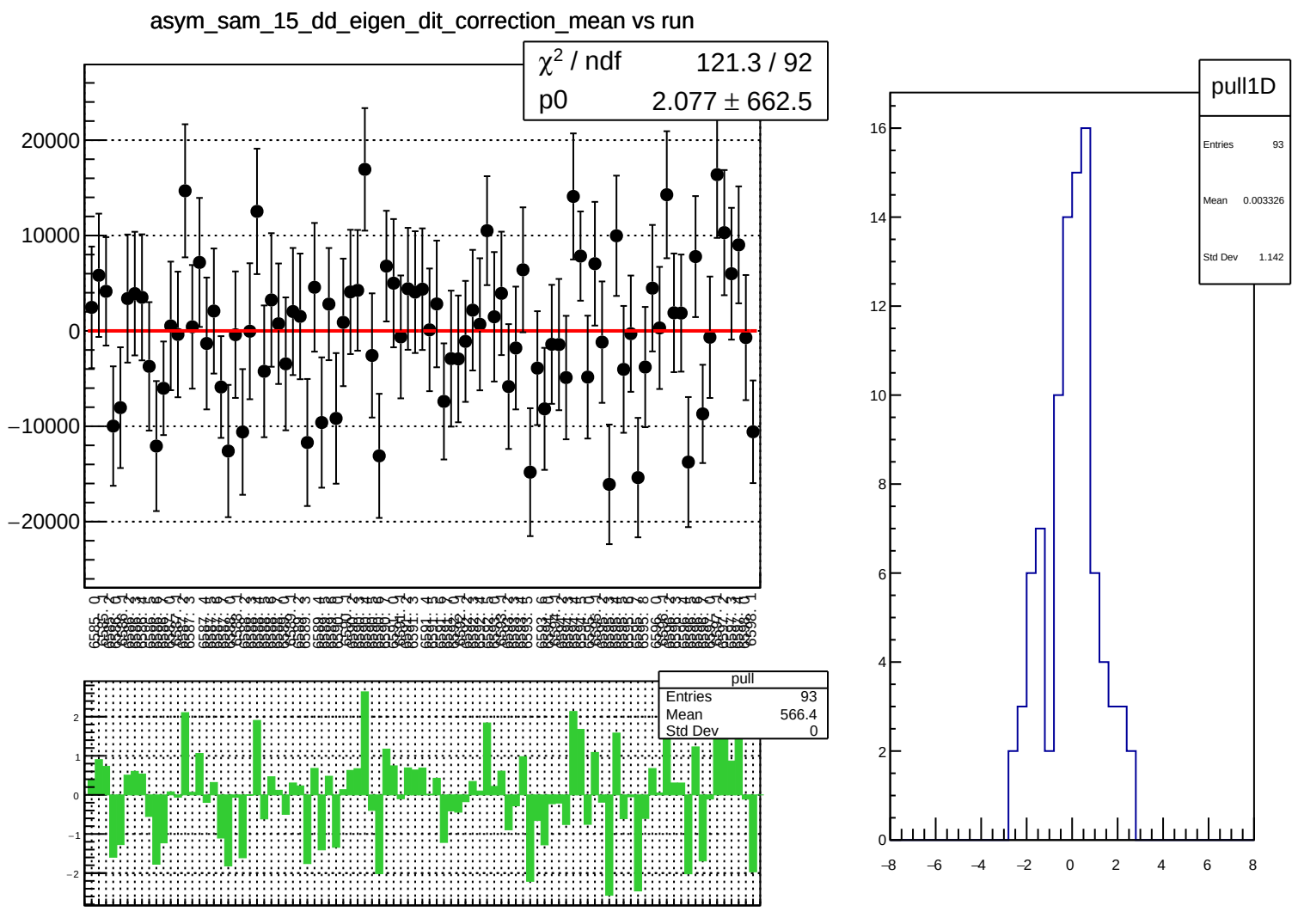

pull1D
Entries 93
Mean 0.003326
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

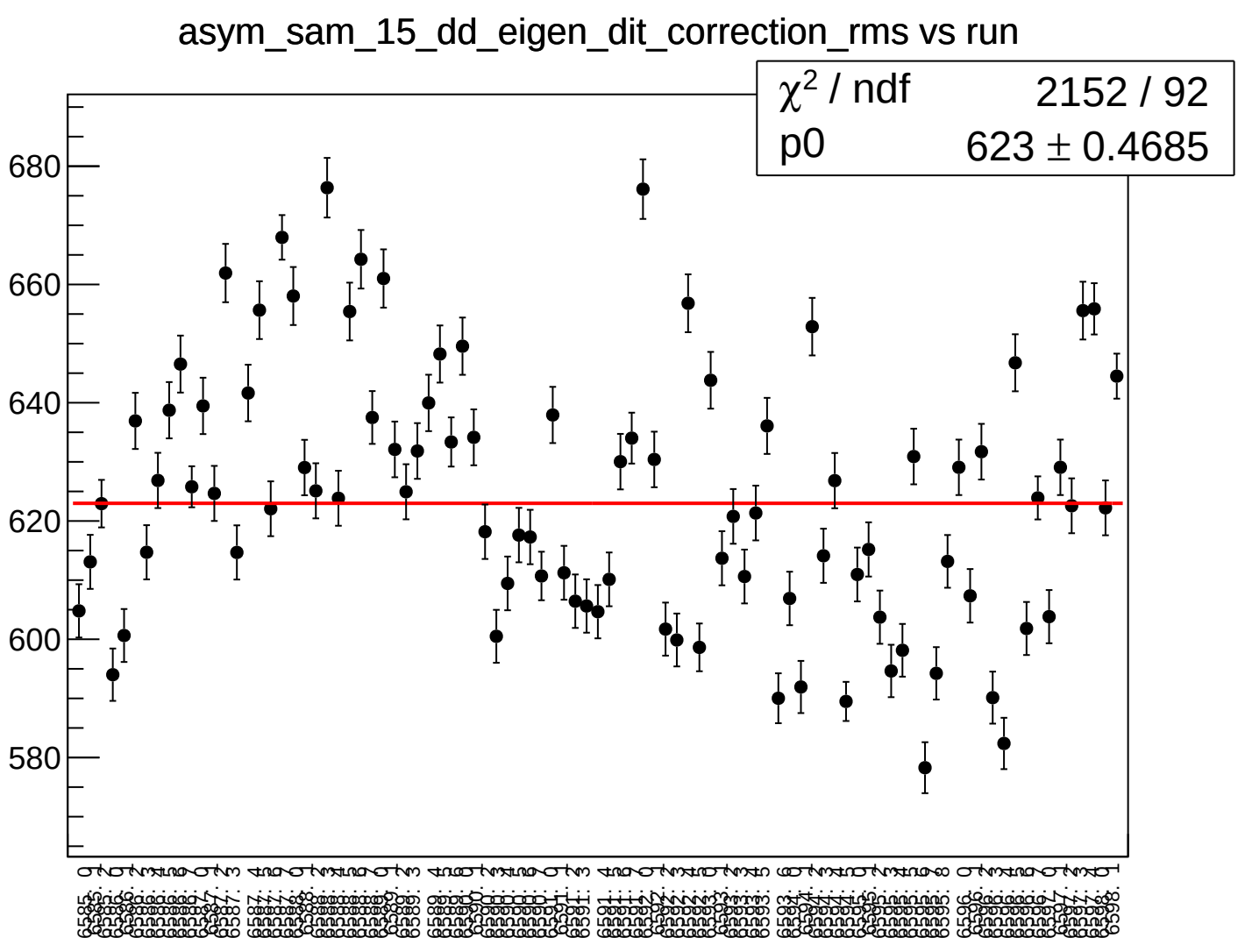

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2152 / 92
p0 623 ± 0.4685
680
660
640
620
600
580

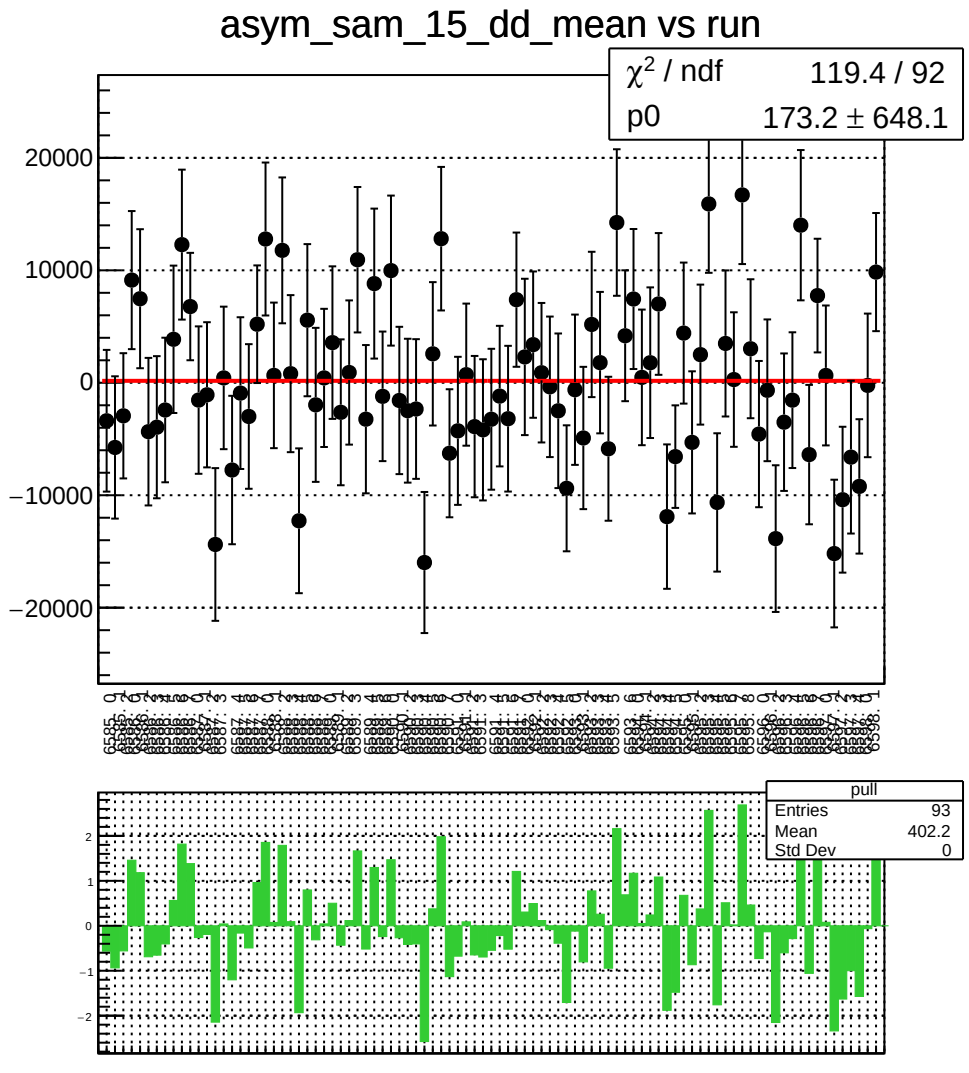

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 81.67 / 92
p0 162.4 ± 105.5
pull
Entries 93
Mean 206.7
Std Dev 112.6

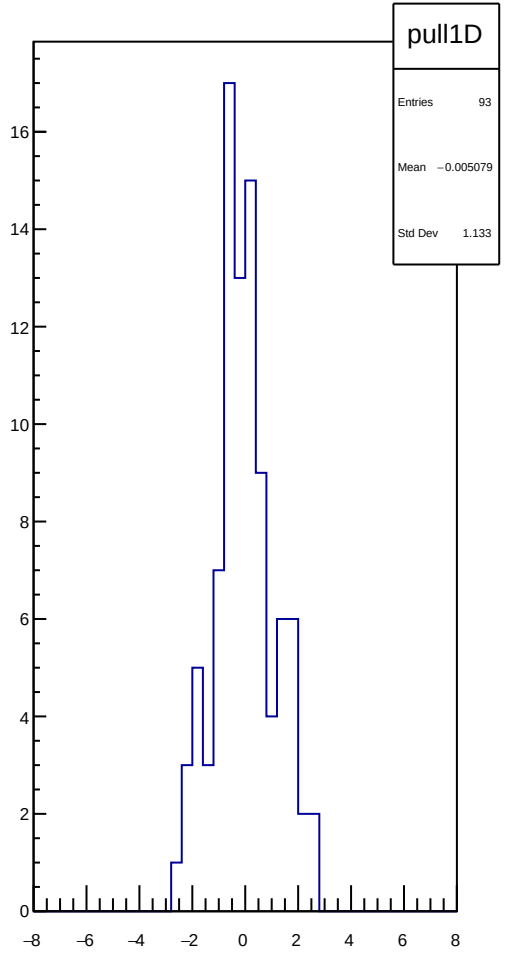

pull1D
Entries 93
Mean −0.003593
Std Dev 0.9371

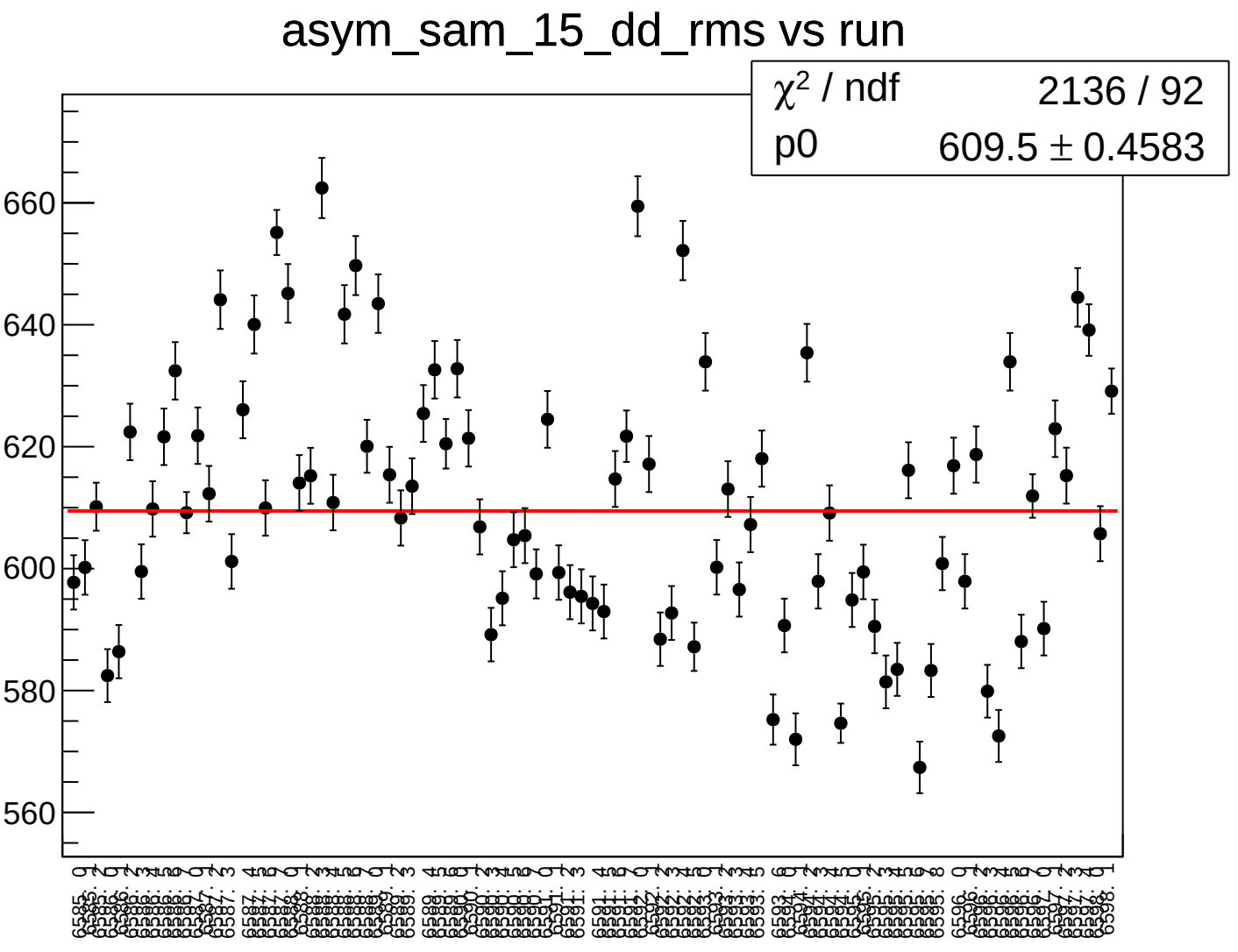

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 2007 / 92
p0 99.25 ± 0.07463
106
104
102
100
98
96
94
92
90

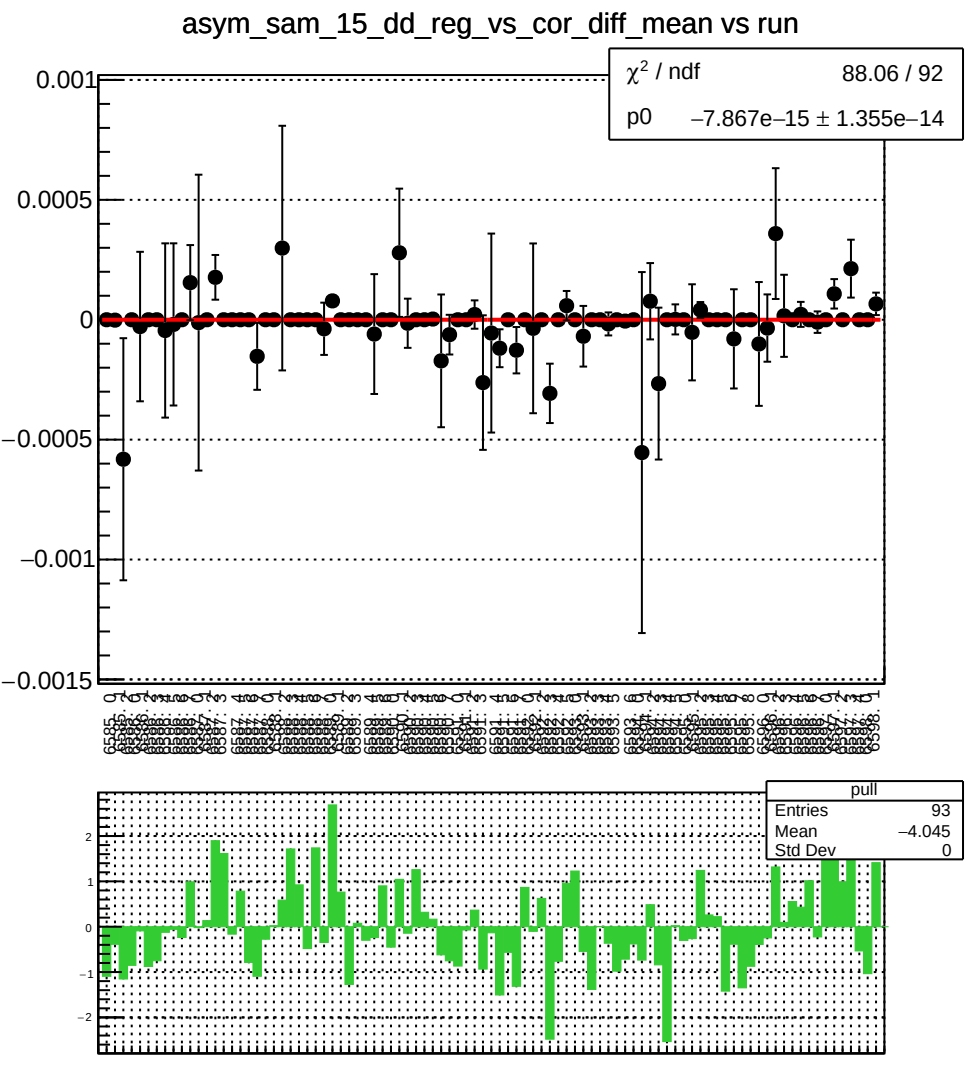

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 121.3 / 92
p0 2.077 ± 662.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 566.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003326
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

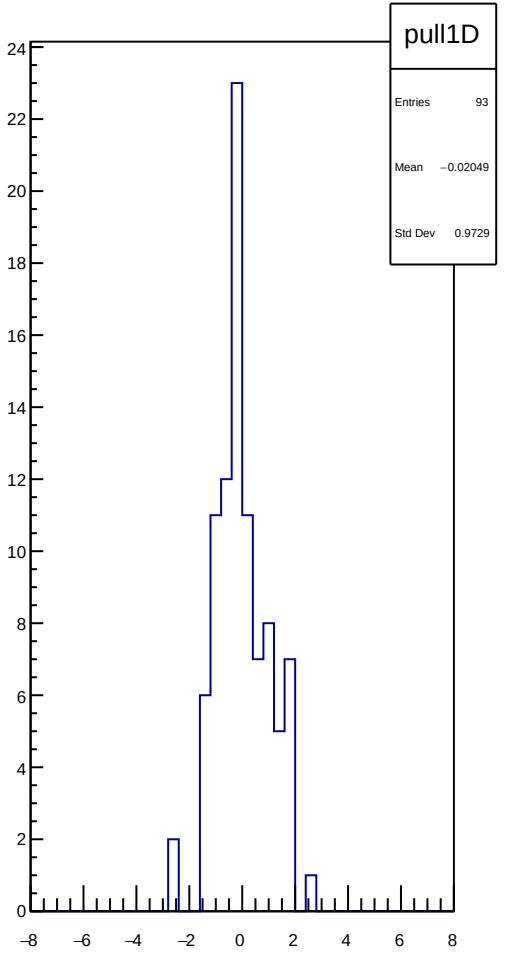

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2152 / 92
p0 623 ± 0.4685
680
660
640
620
600
580

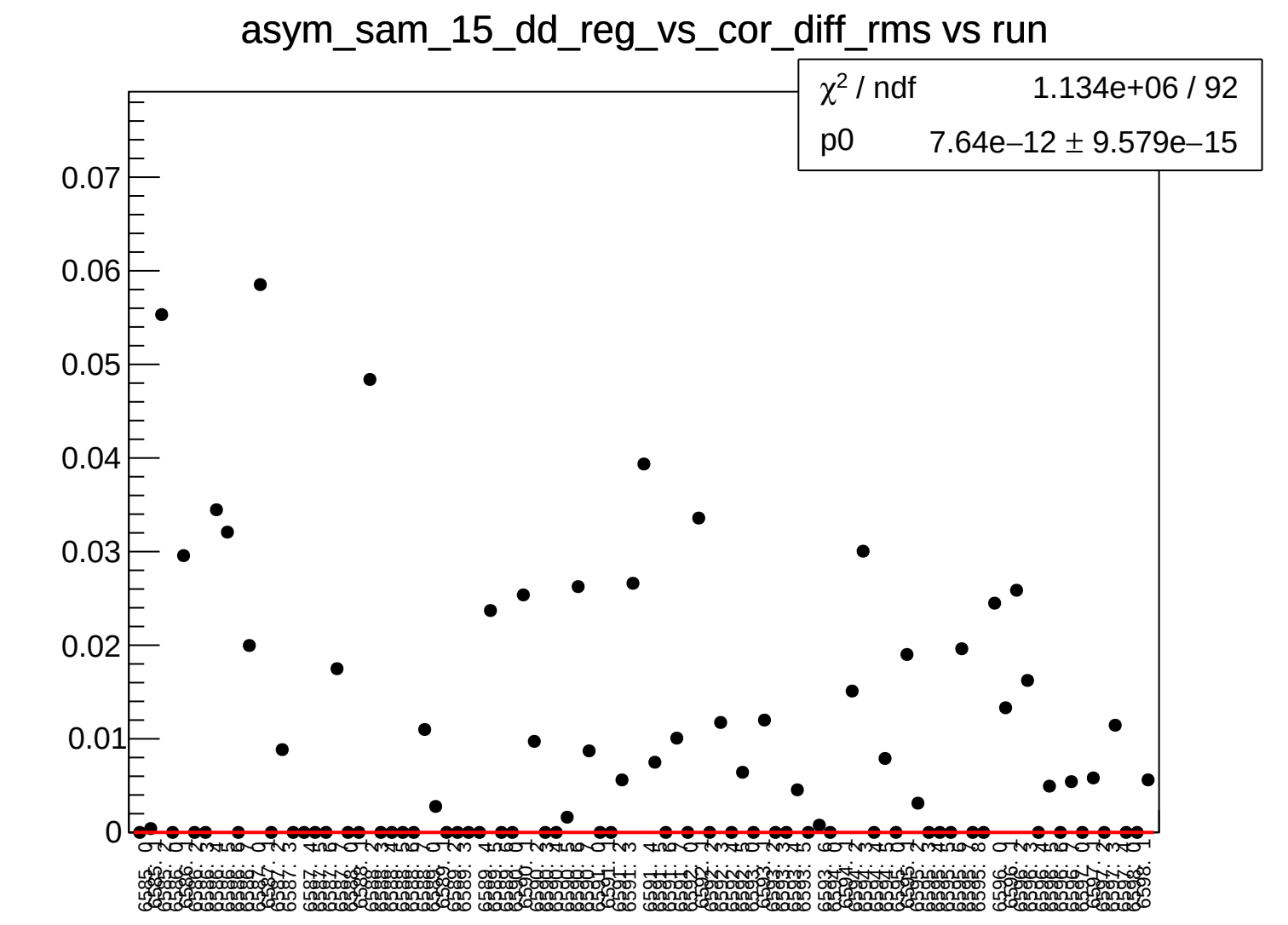

asym_sam_15_dd_mean vs run
χ² / ndf 119.4 / 92
p0 173.2 ± 648.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 402.2
Std Dev 0
2
1
0
−1
−2

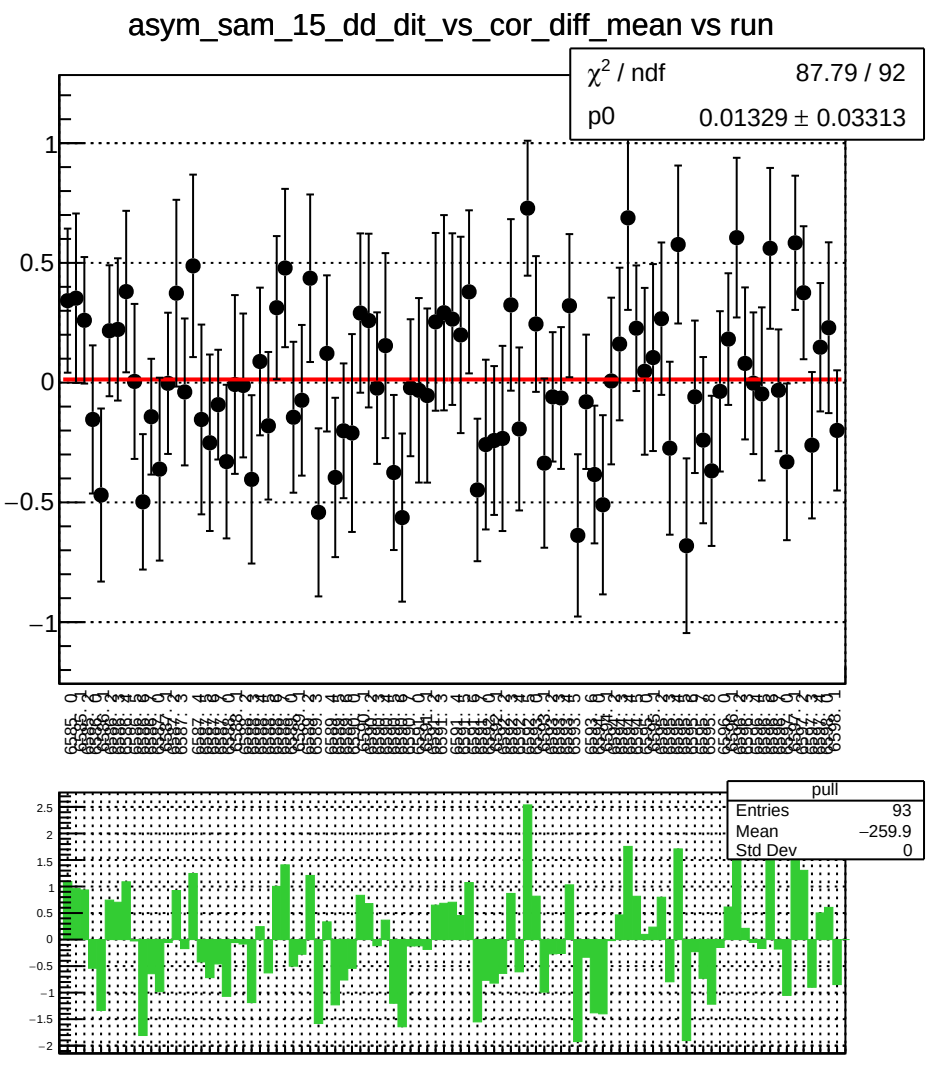

pull1D
Entries 93
Mean −0.005079
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

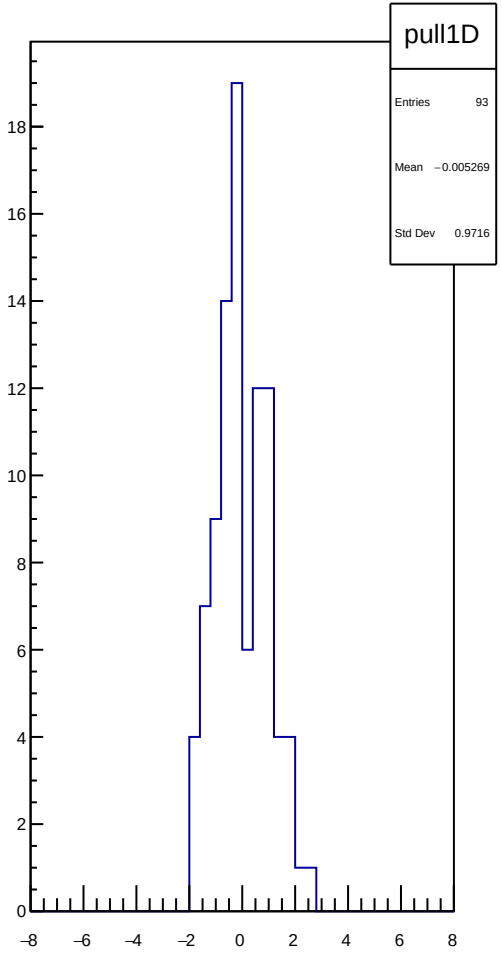

asym_sam_15_dd_rms vs run
χ² / ndf 2136 / 92
p0 609.5 ± 0.4583
660
640
620
600
580
560

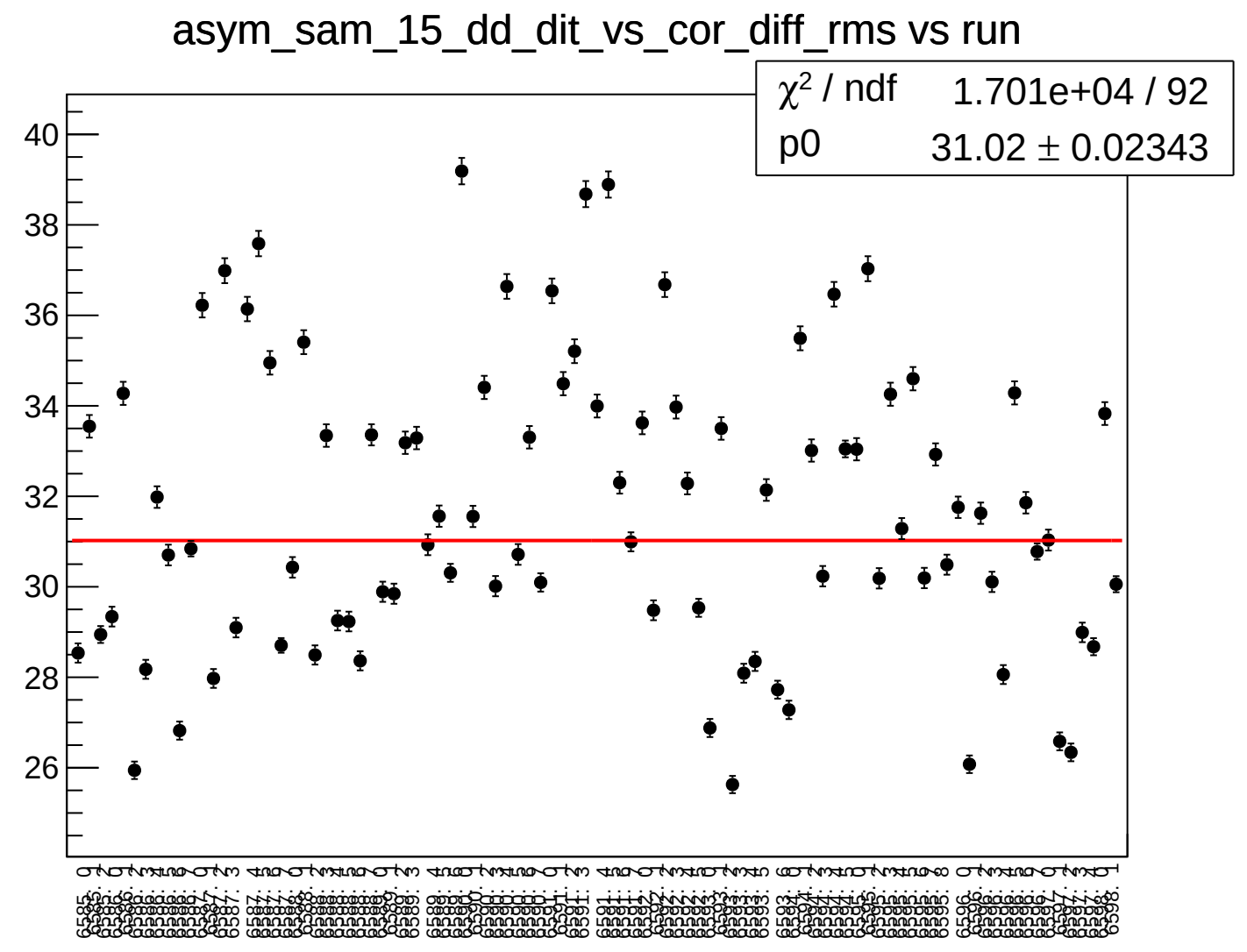

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.06 / 92
p0 −7.867e−15 ± 1.355e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean −4.045
Std Dev 0
2
1
0
−1
−2

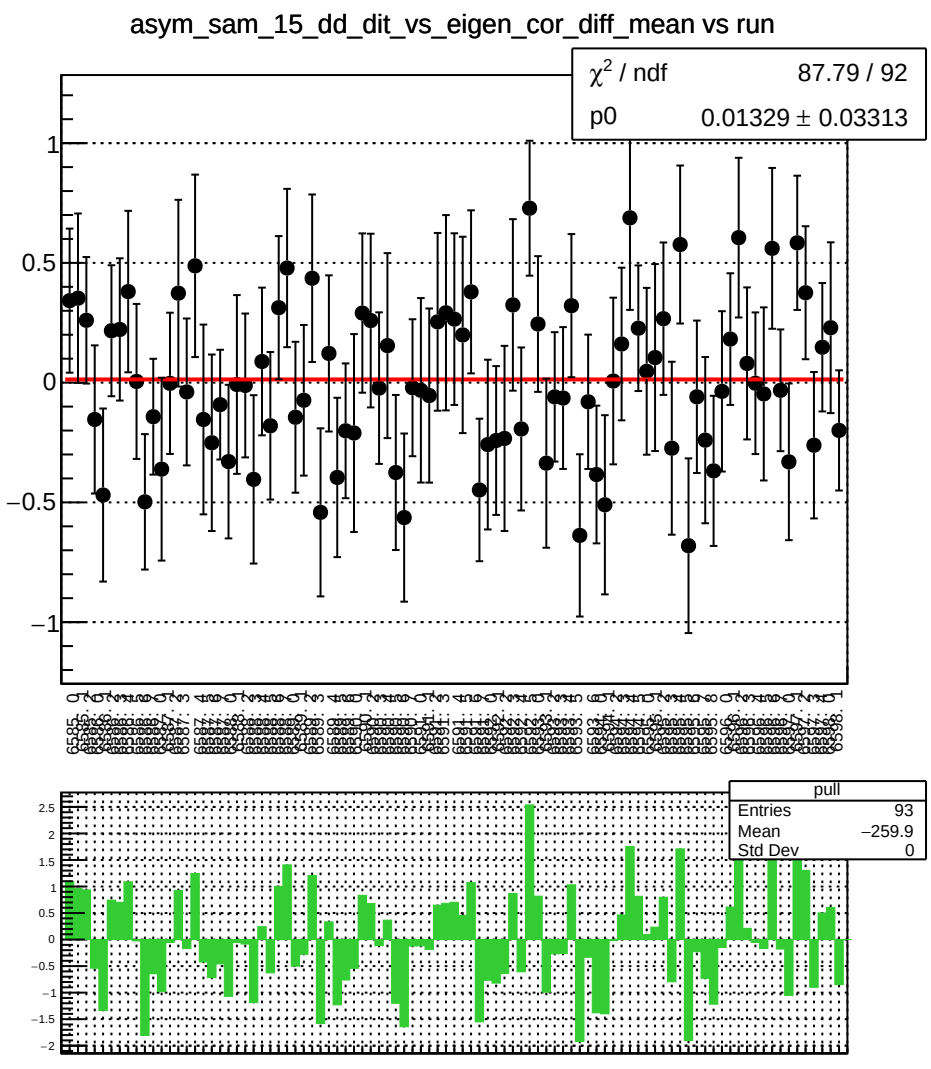

pull1D
Entries 93
Mean −0.02049
Std Dev 0.9729
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

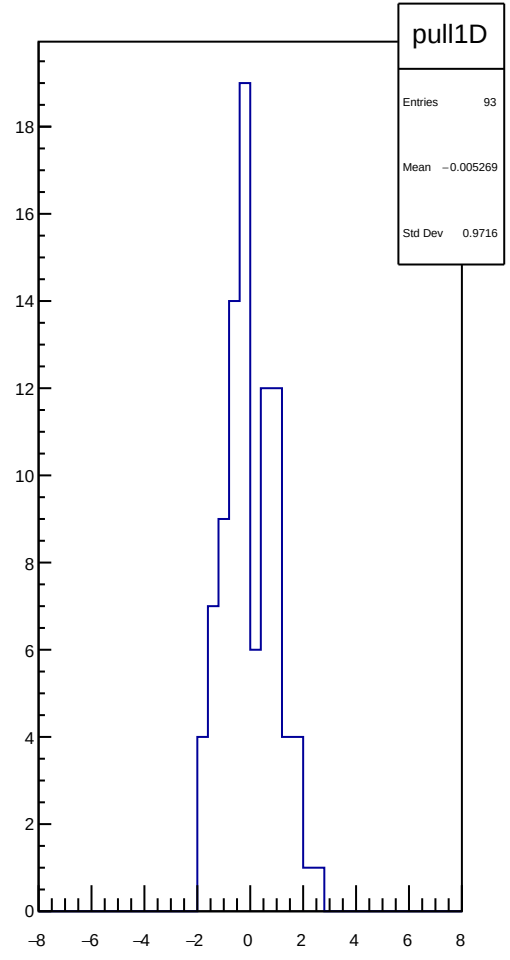

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.134e+06 / 92
p0 7.64e−12 ± 9.579e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

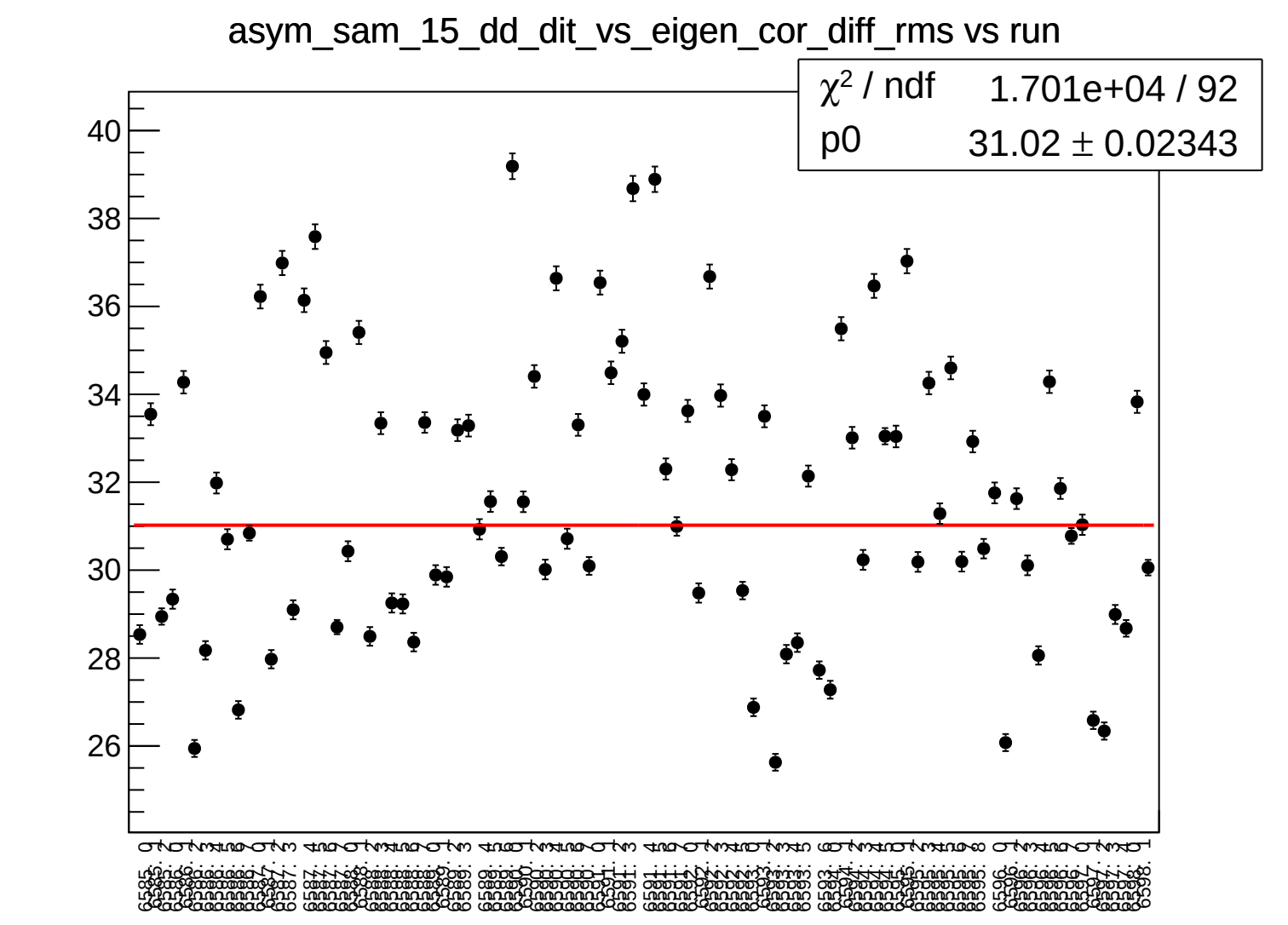

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.79 / 92
p0 0.01329 ± 0.03313
pull
Entries 93
Mean −259.9
Std Dev 0

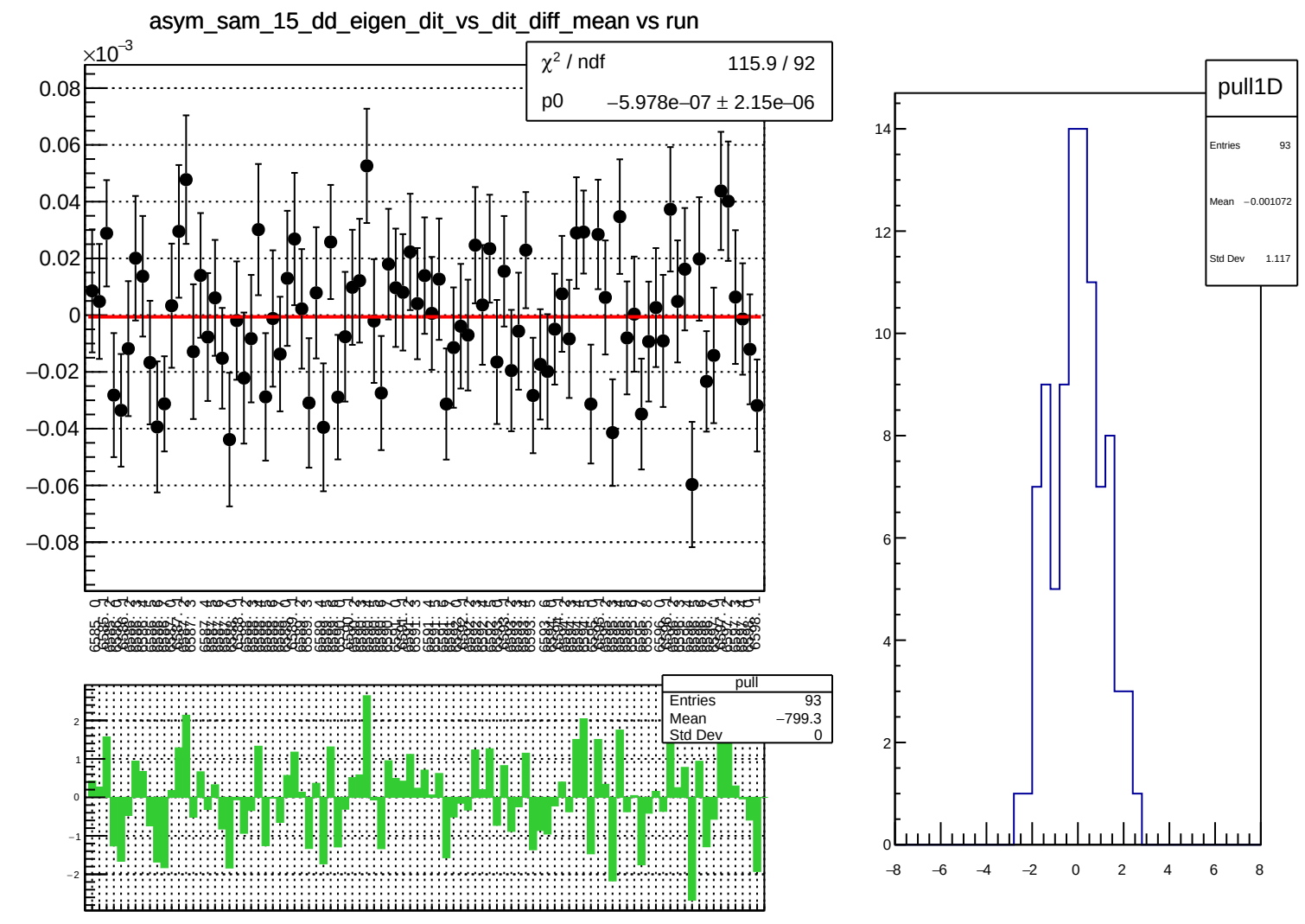

pull1D
Entries 93
Mean −0.005269
Std Dev 0.9716

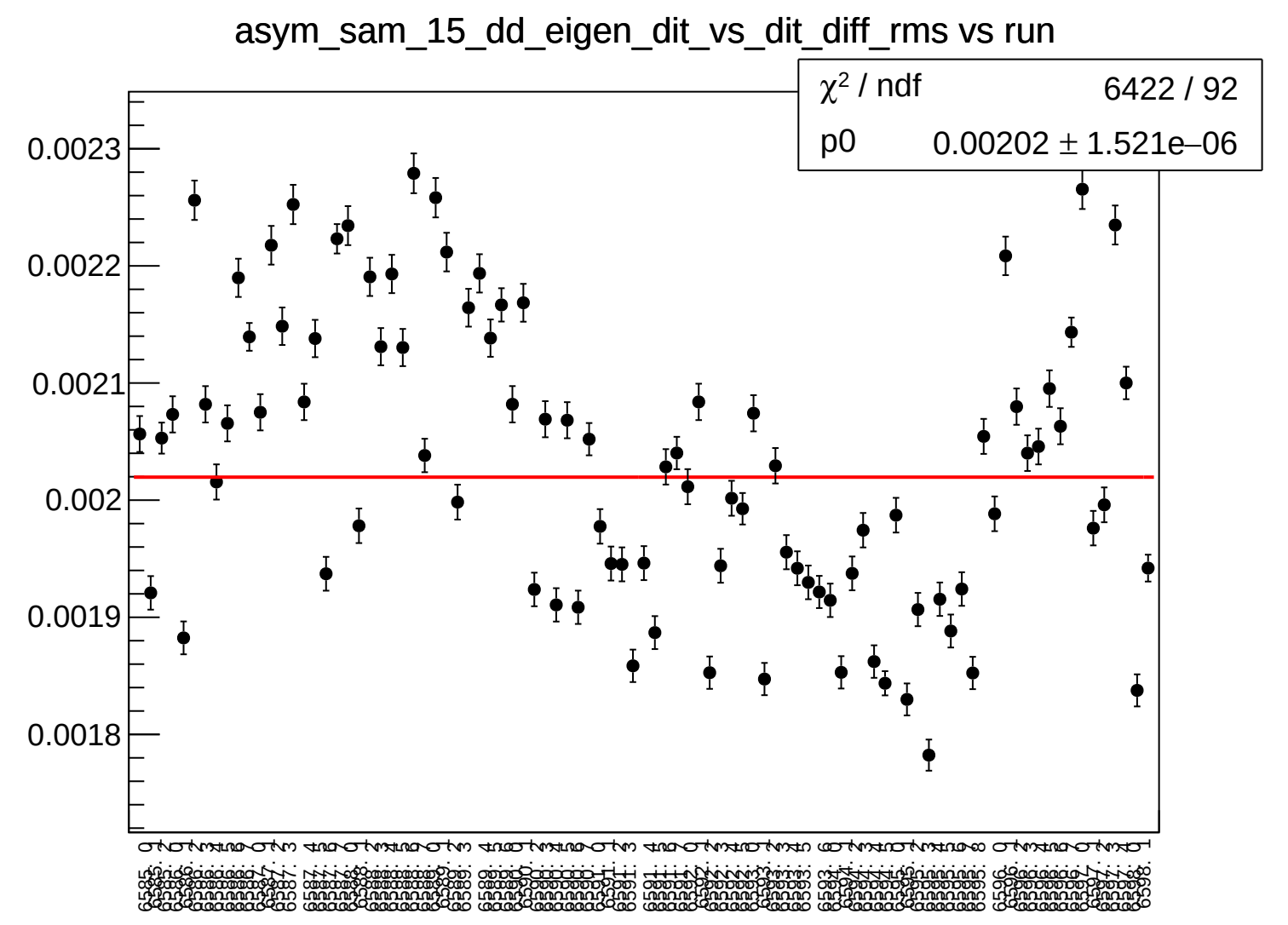

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.701e+04 / 92
p0 31.02 ± 0.02343
40
38
36
34
32
30
28
26

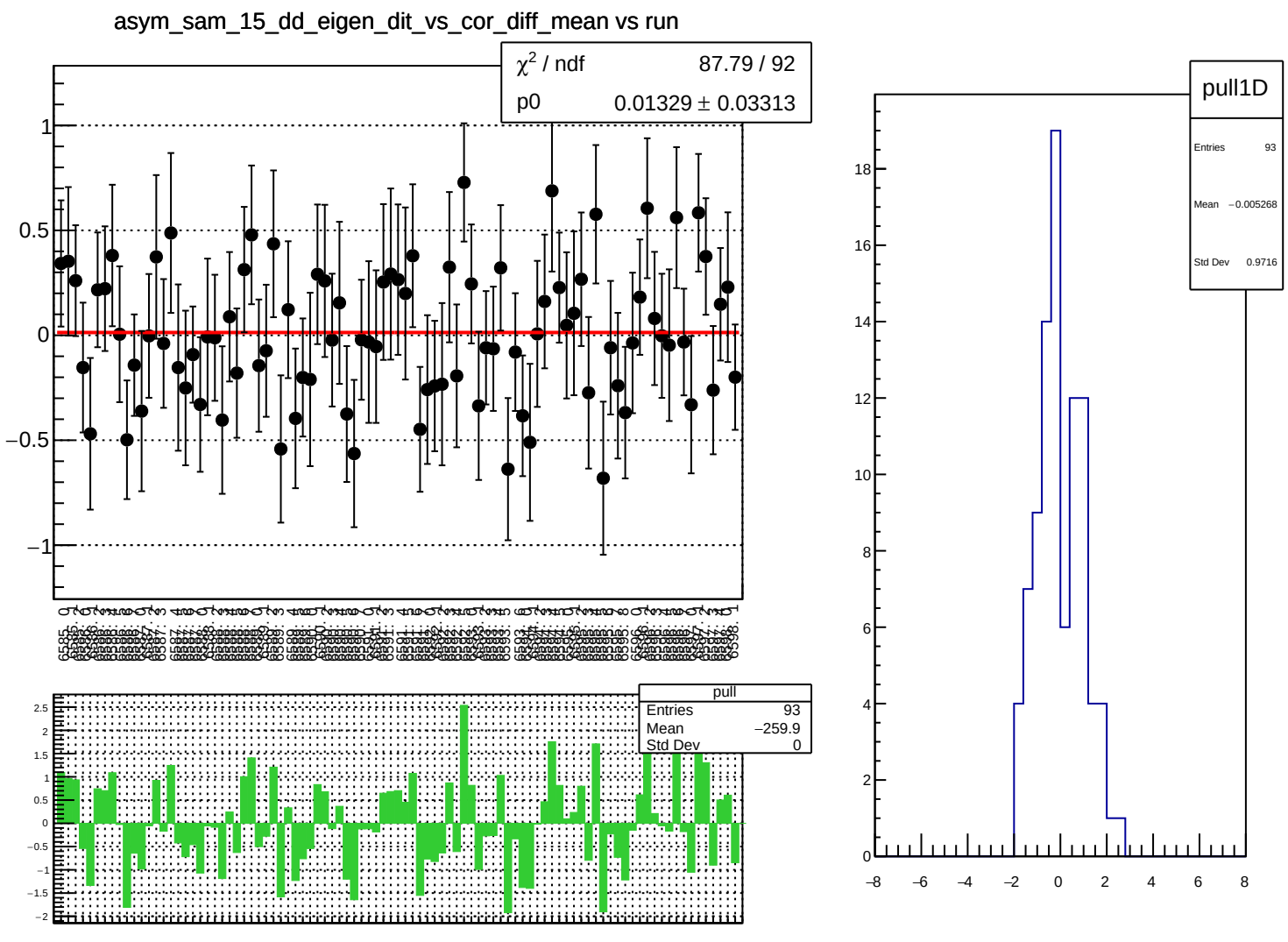

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.79 / 92
p0 0.01329 ± 0.03313
pull
Entries 93
Mean −259.9
Std Dev 0

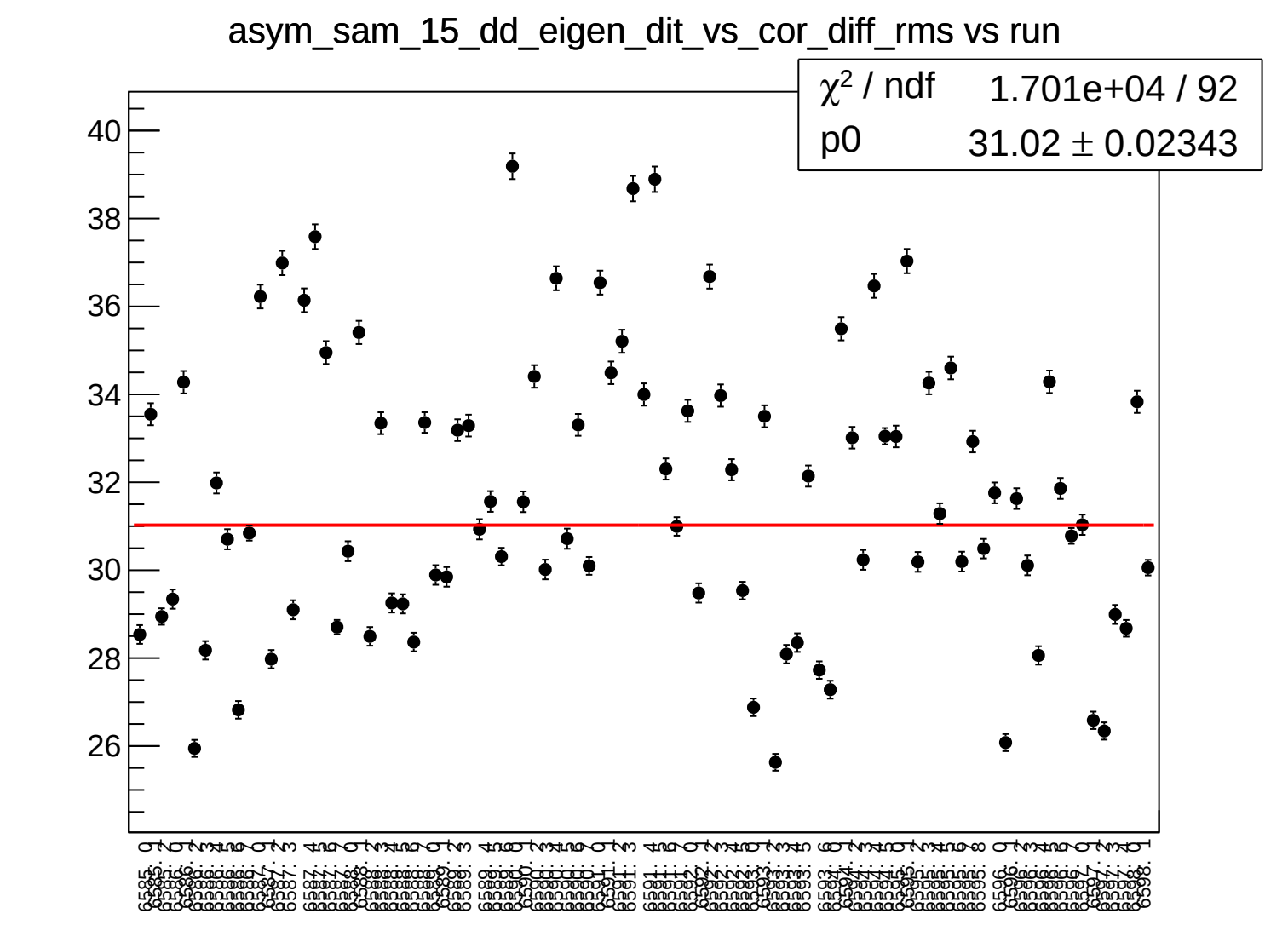

pull1D
Entries 93
Mean −0.005269
Std Dev 0.9716

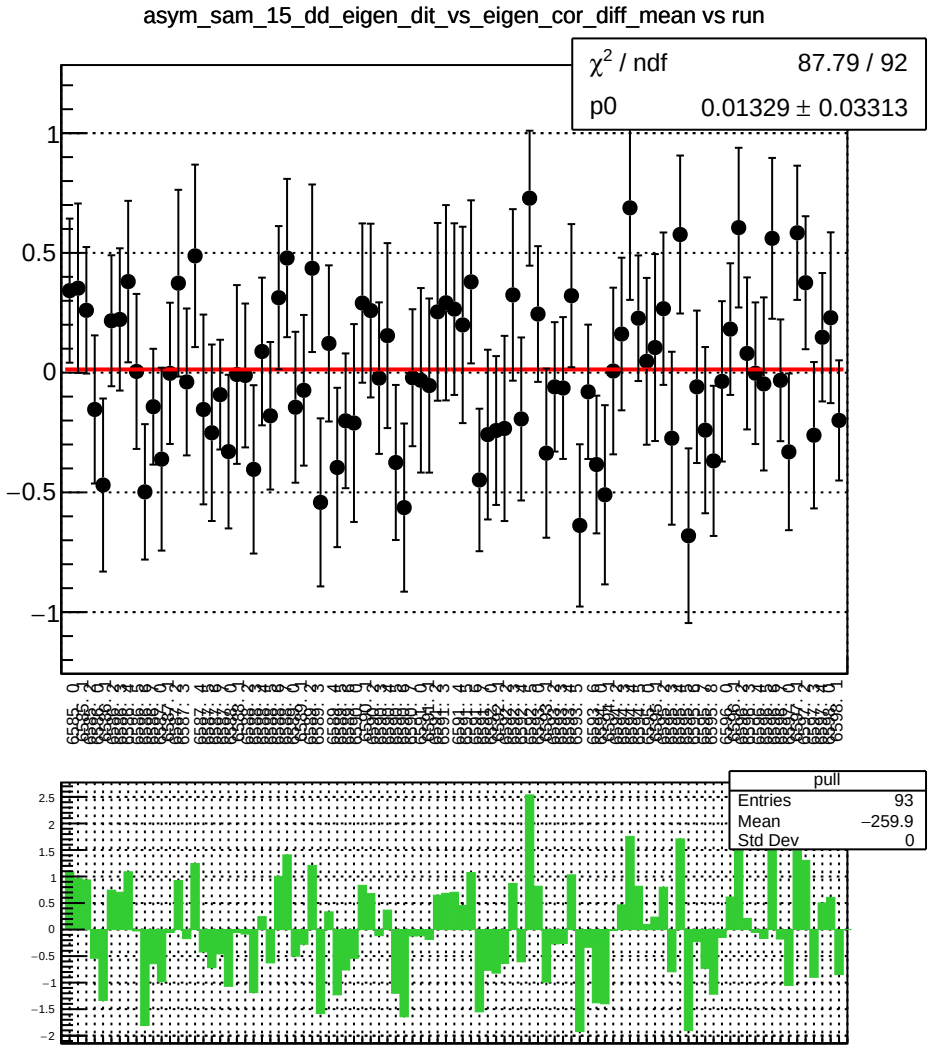

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.701e+04 / 92
p0 31.02 ± 0.02343
40
38
36
34
32
30
28
26

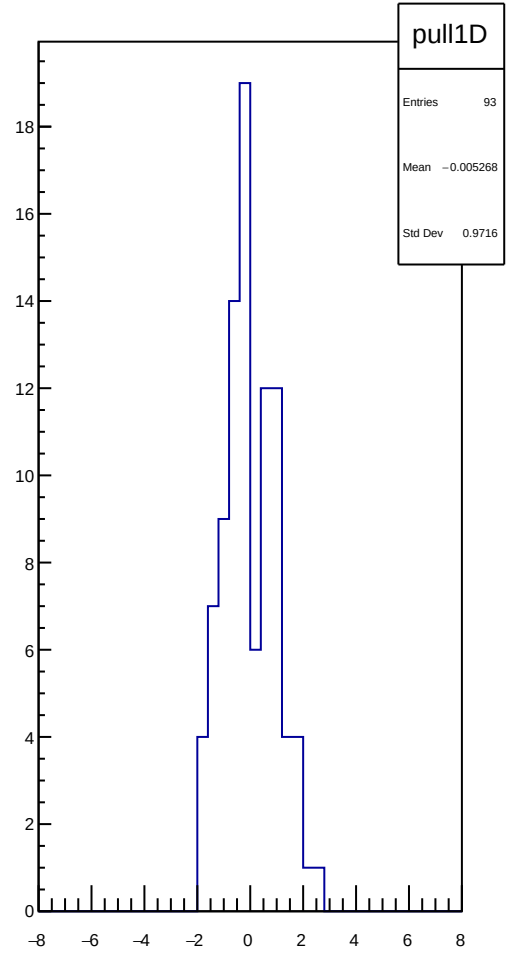

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.9 / 92
p0 −5.978e−07 ± 2.15e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 93
Mean −799.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001072
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

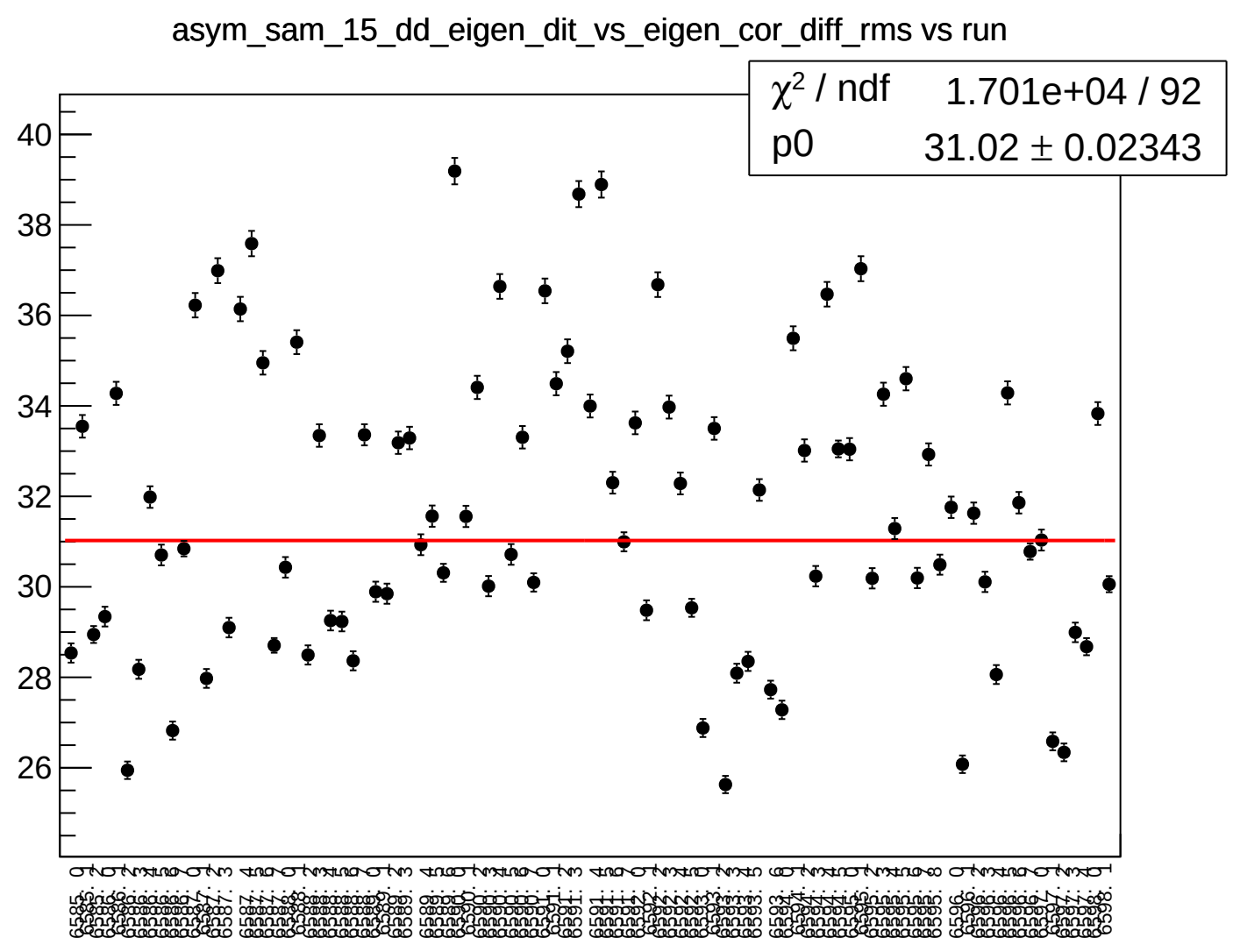

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6422 / 92
p0 0.00202 ± 1.521e–06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

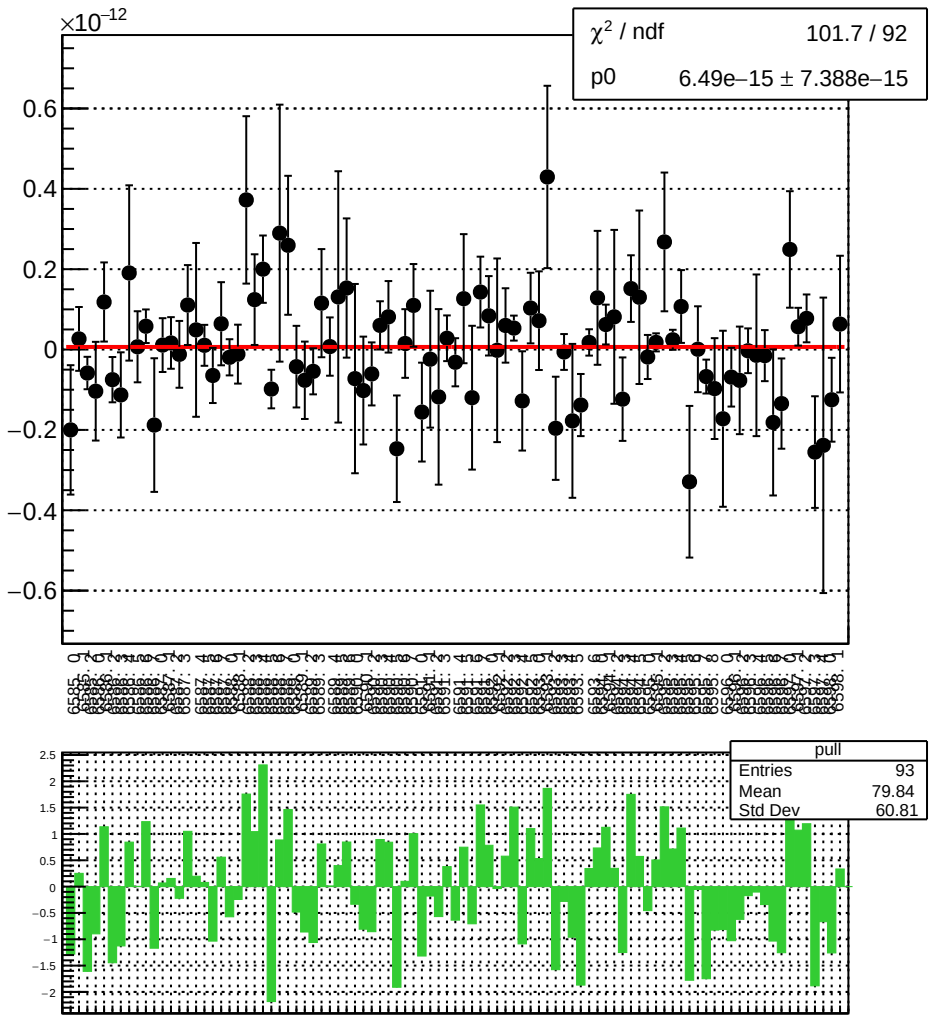

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.79 / 92
p0 0.01329 ± 0.03313
pull
Entries 93
Mean −259.9
Std Dev 0
pull1D
Entries 93
Mean −0.005268
Std Dev 0.9716

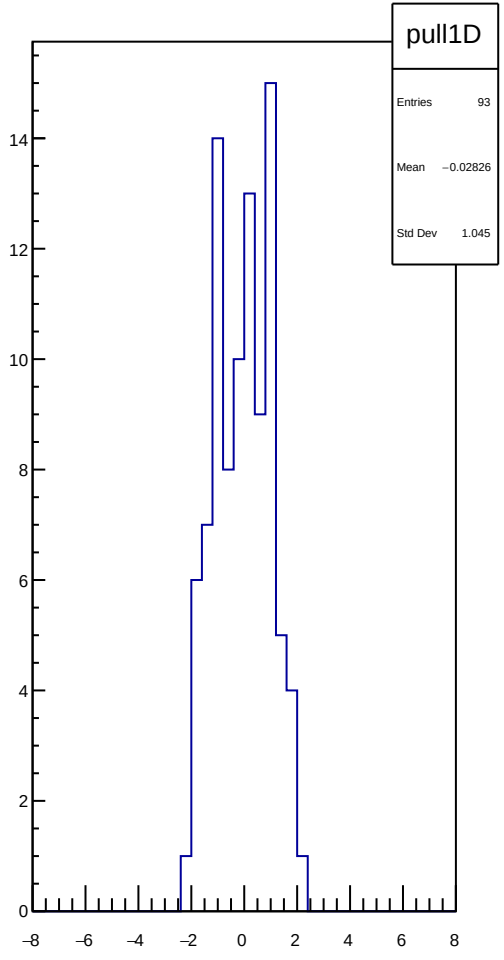

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.701e+04 / 92
p0 31.02 ± 0.02343
40
38
36
34
32
30
28
26

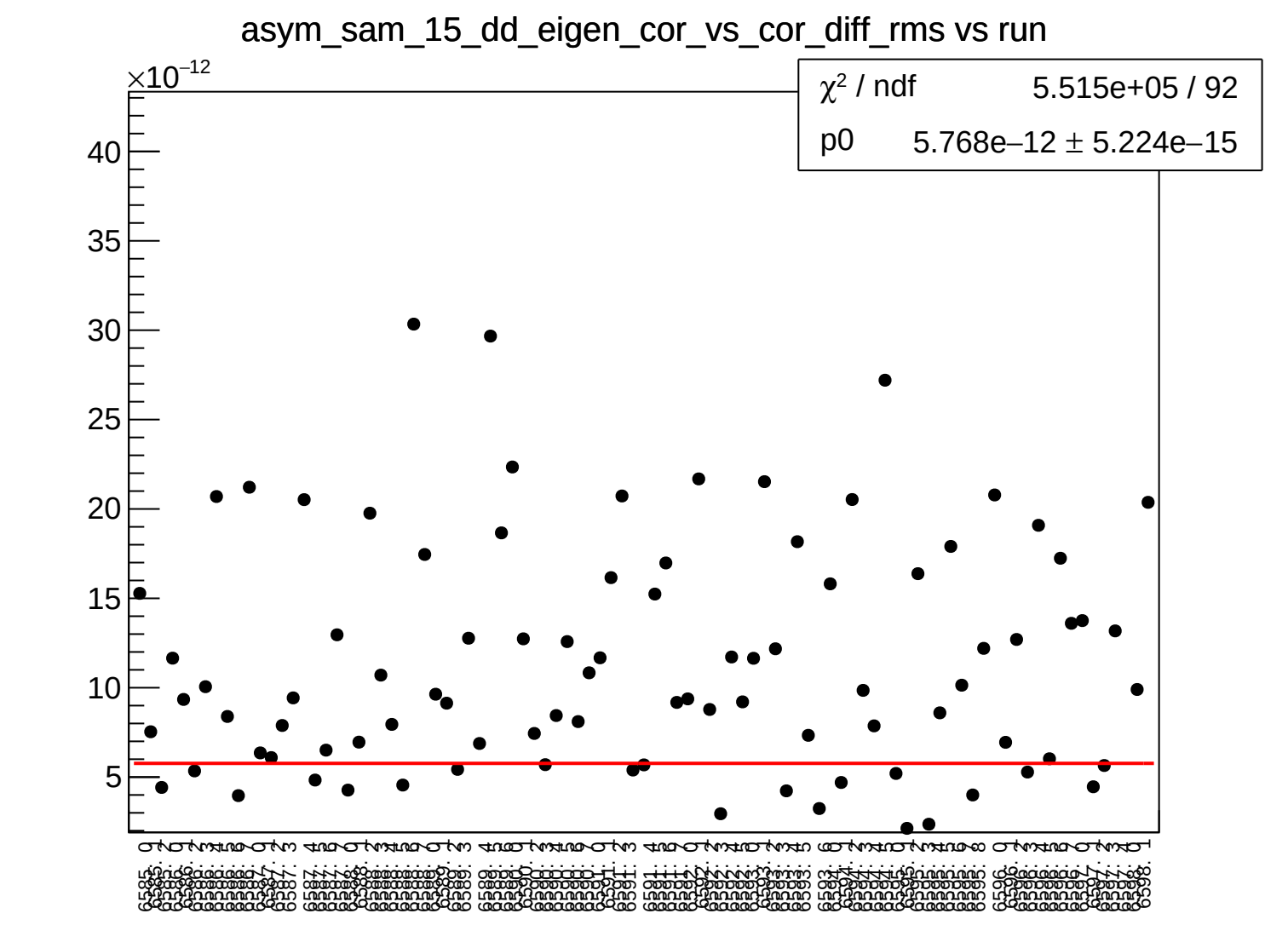

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.79 / 92
p0 0.01329 ± 0.03313
pull
Entries 93
Mean −259.9
Std Dev 0

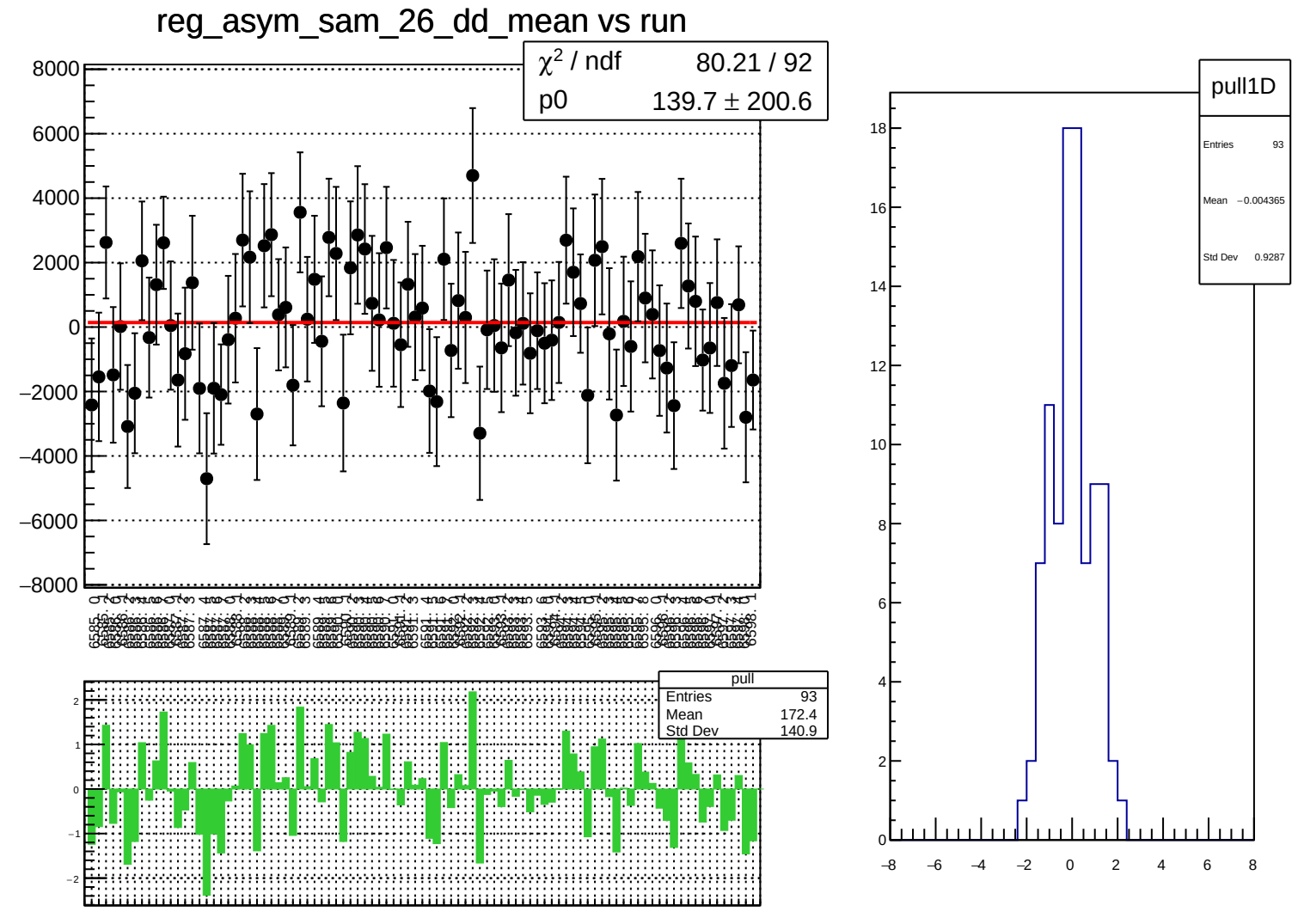

pull1D
Entries 93
Mean −0.005268
Std Dev 0.9716

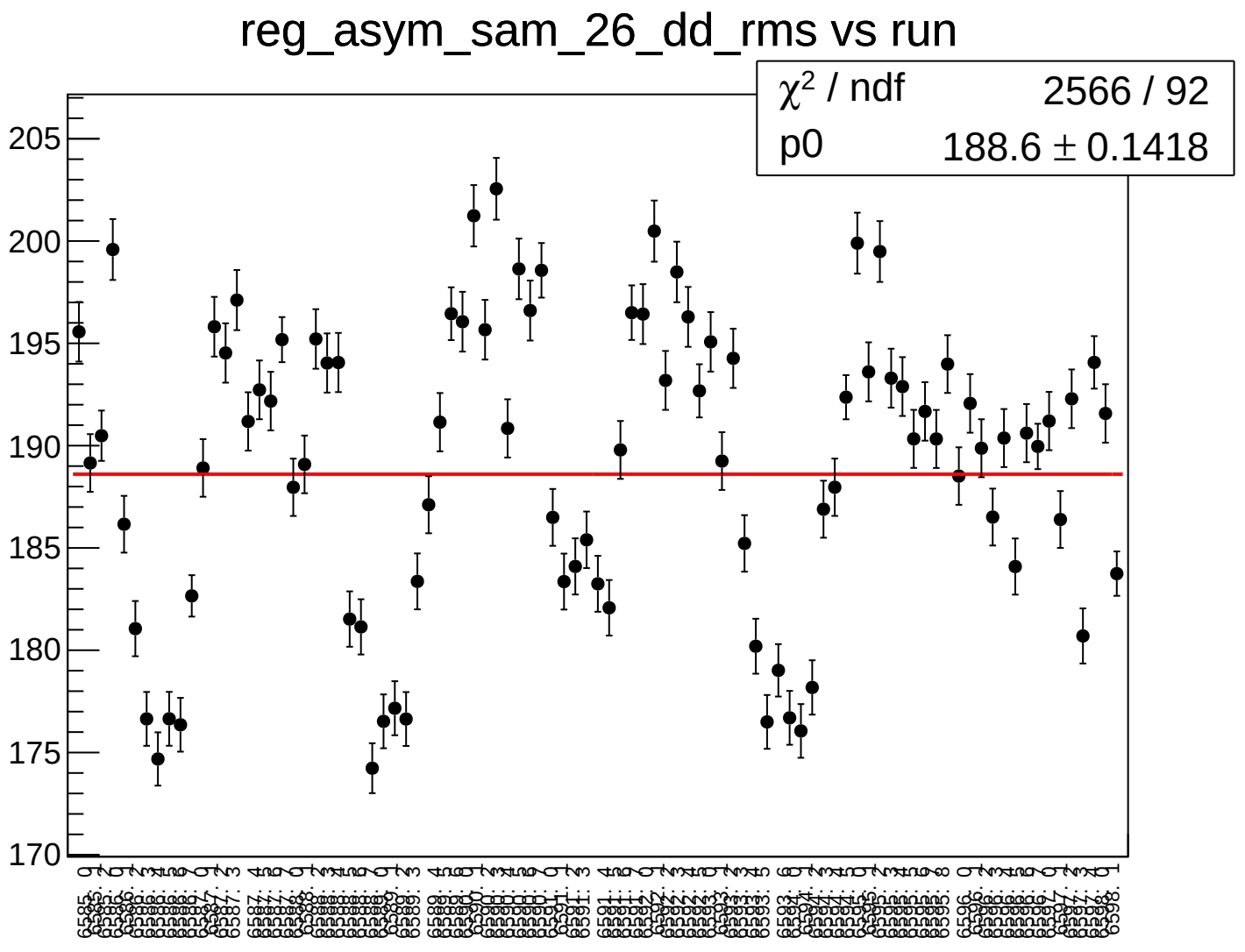

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.701e+04 / 92
p0 31.02 ± 0.02343
40
38
36
34
32
30
28
26

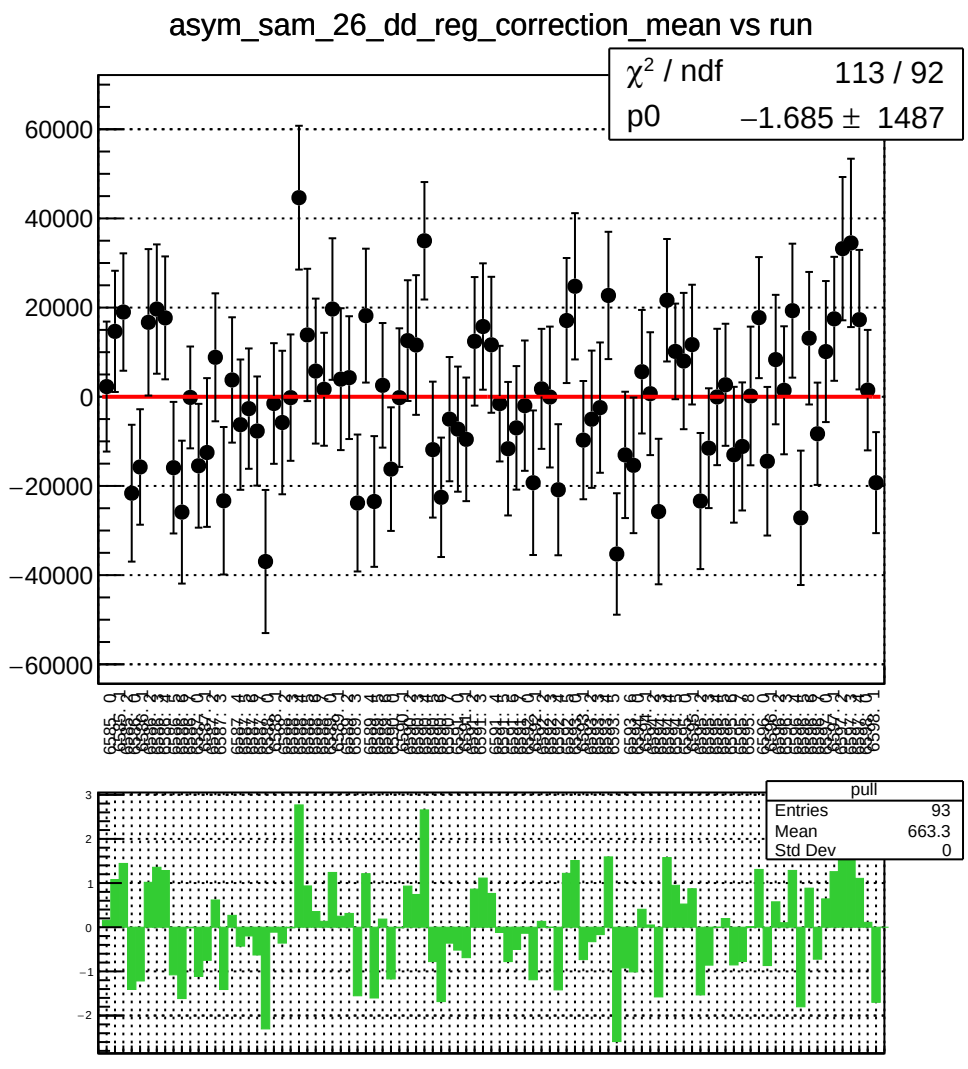

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.7 / 92
p0 6.49e−15 ± 7.388e−15
pull
Entries 93
Mean 79.84
Std Dev 60.81

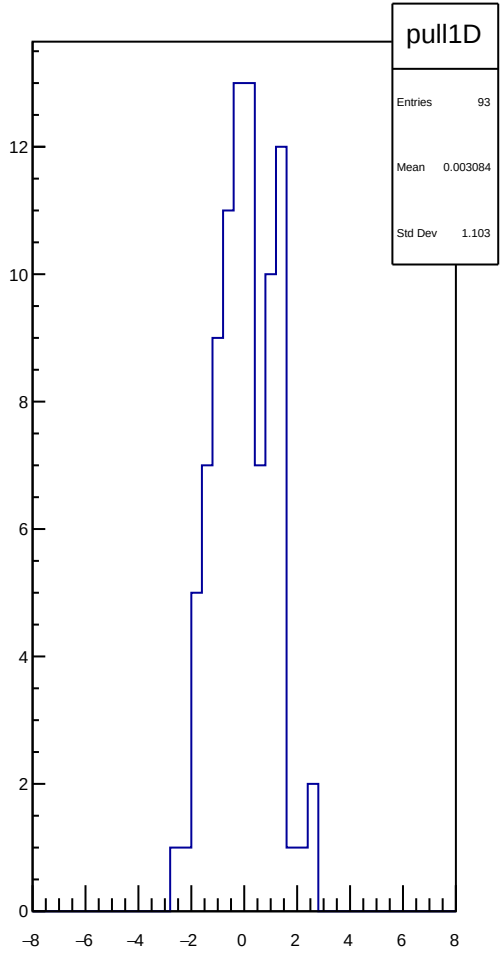

pull1D
Entries 93
Mean −0.02826
Std Dev 1.045

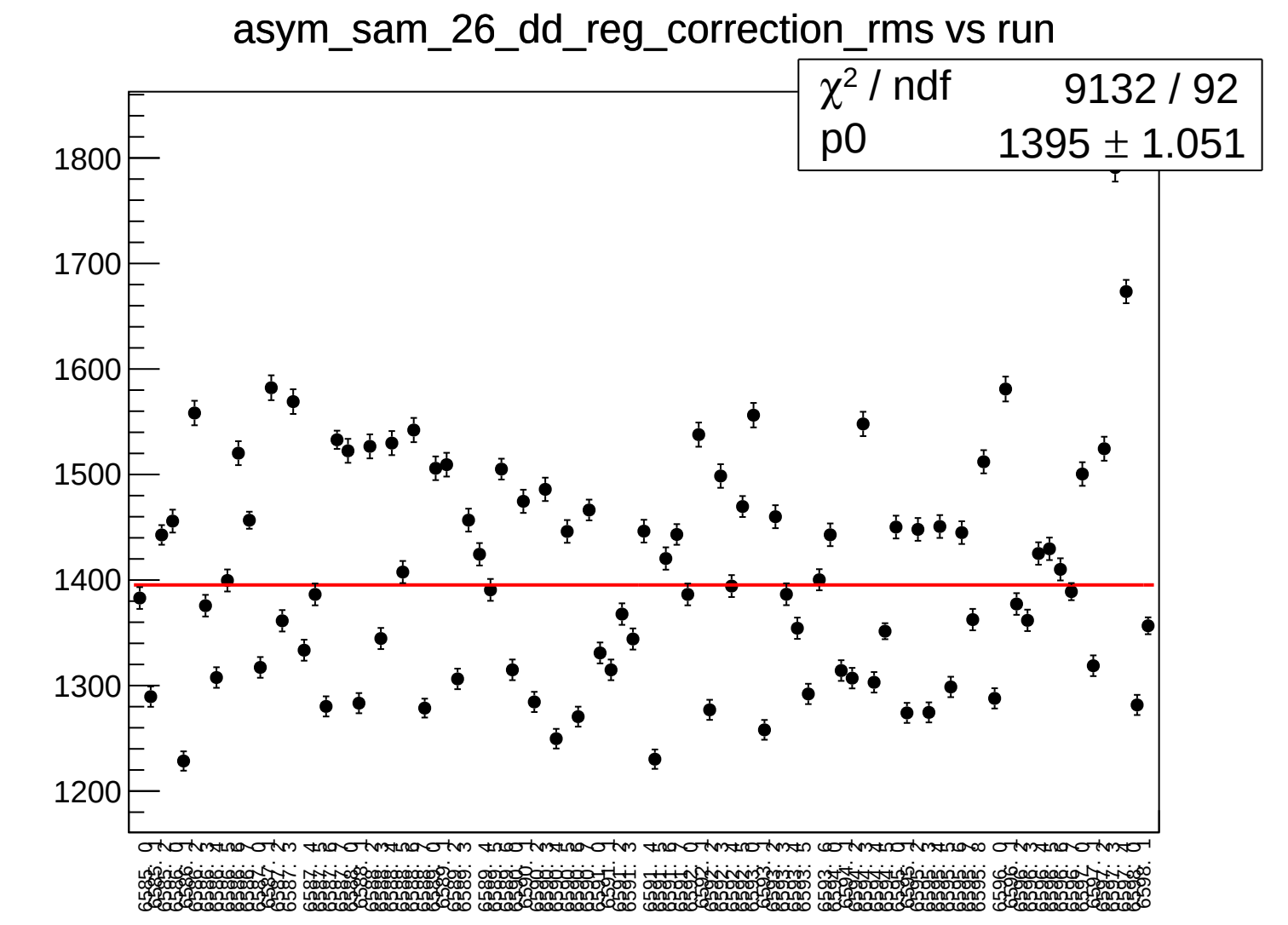

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.515e+05 / 92
p0 5.768e−12 ± 5.224e−15
40
35
30
25
20
15
10
5

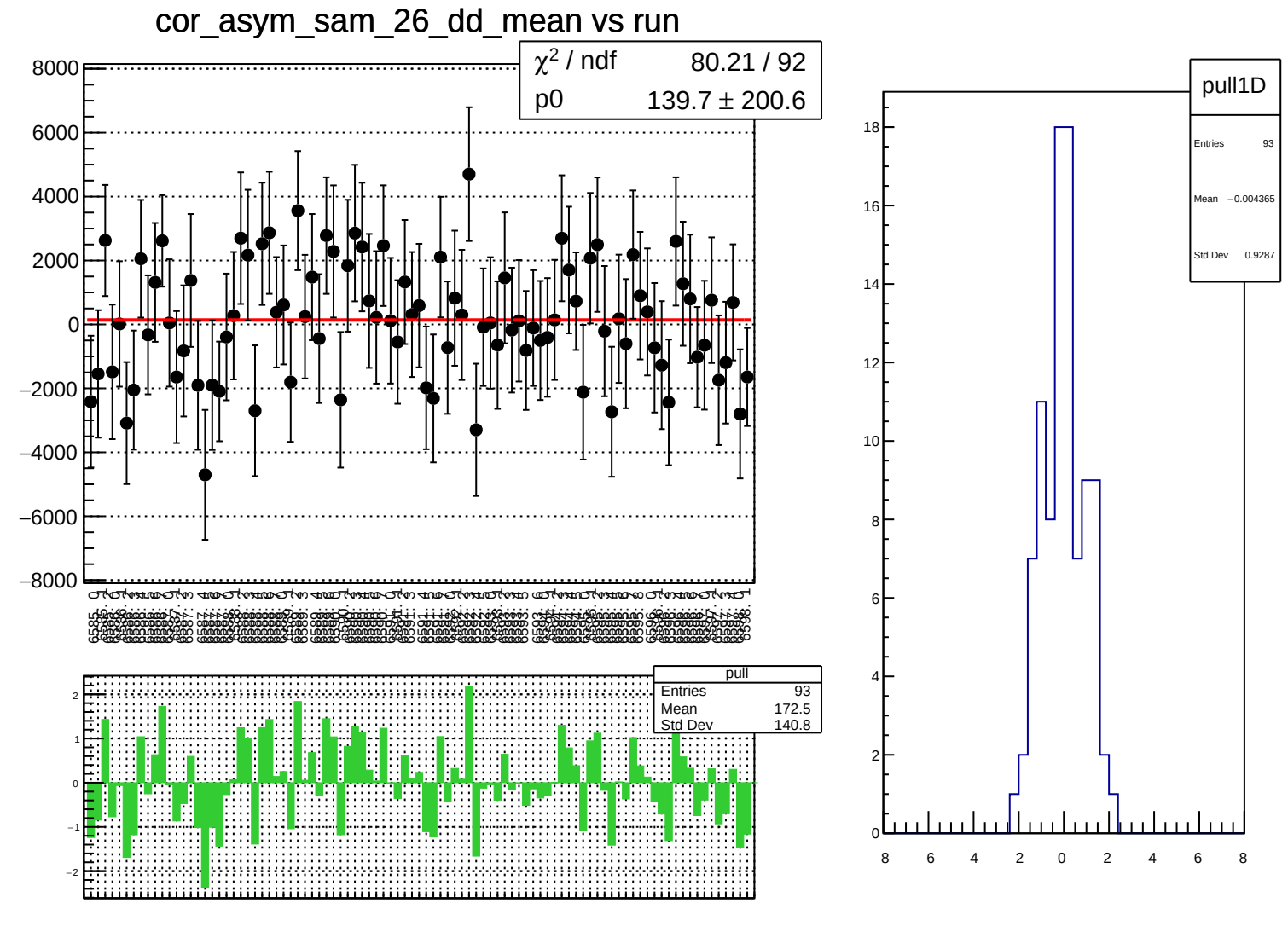

reg_asym_sam_26_dd_mean vs run
χ² / ndf 80.21 / 92
p0 139.7 ± 200.6
pull
Entries 93
Mean 172.4
Std Dev 140.9
pull1D
Entries 93
Mean −0.004365
Std Dev 0.9287

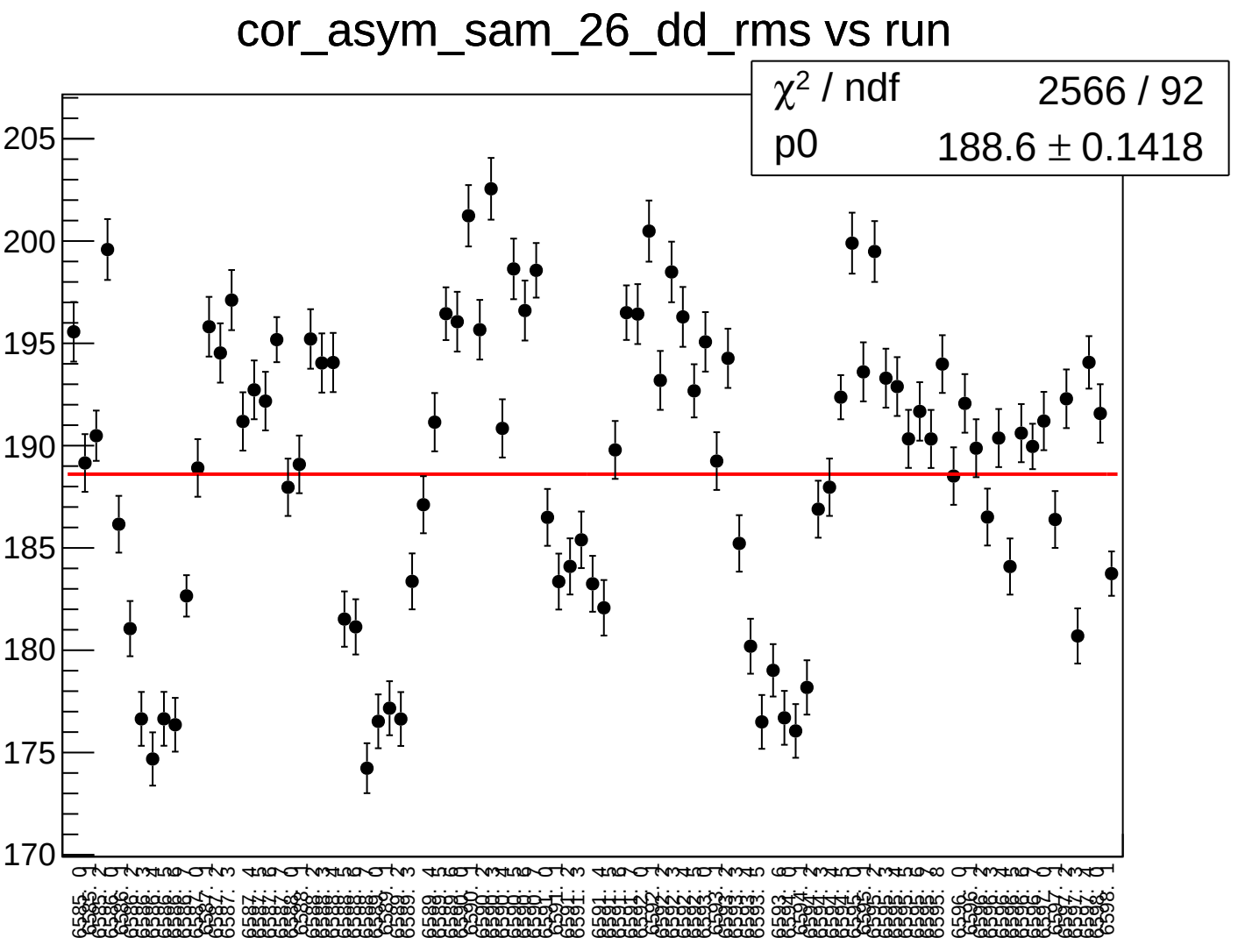

reg_asym_sam_26_dd_rms vs run
χ² / ndf 2566 / 92
p0 188.6 ± 0.1418
205
200
195
190
185
180
175
170

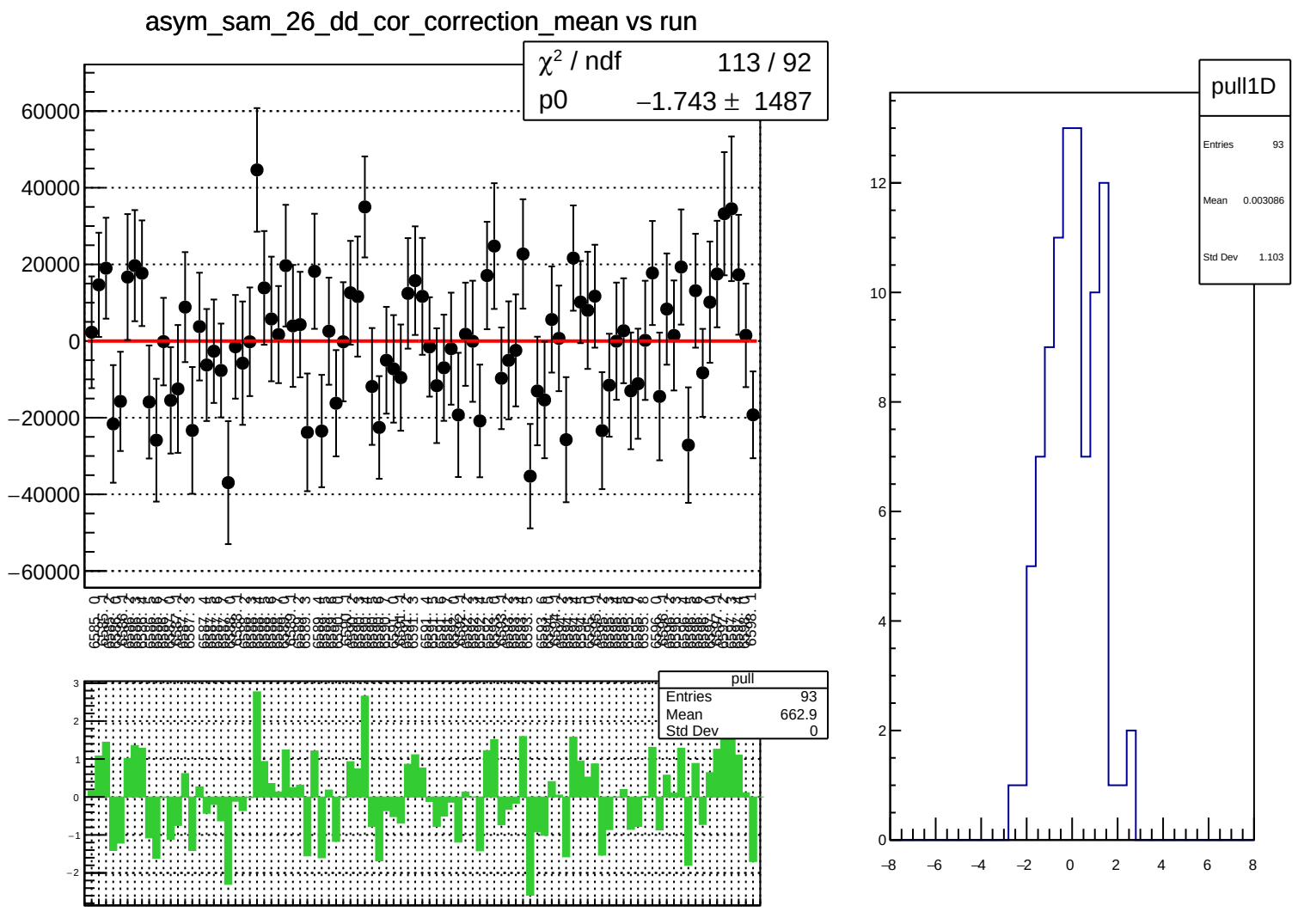

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 113 / 92
p0 −1.685 ± 1487
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 663.3
Std Dev 0
3
2
1
0
−1
−2

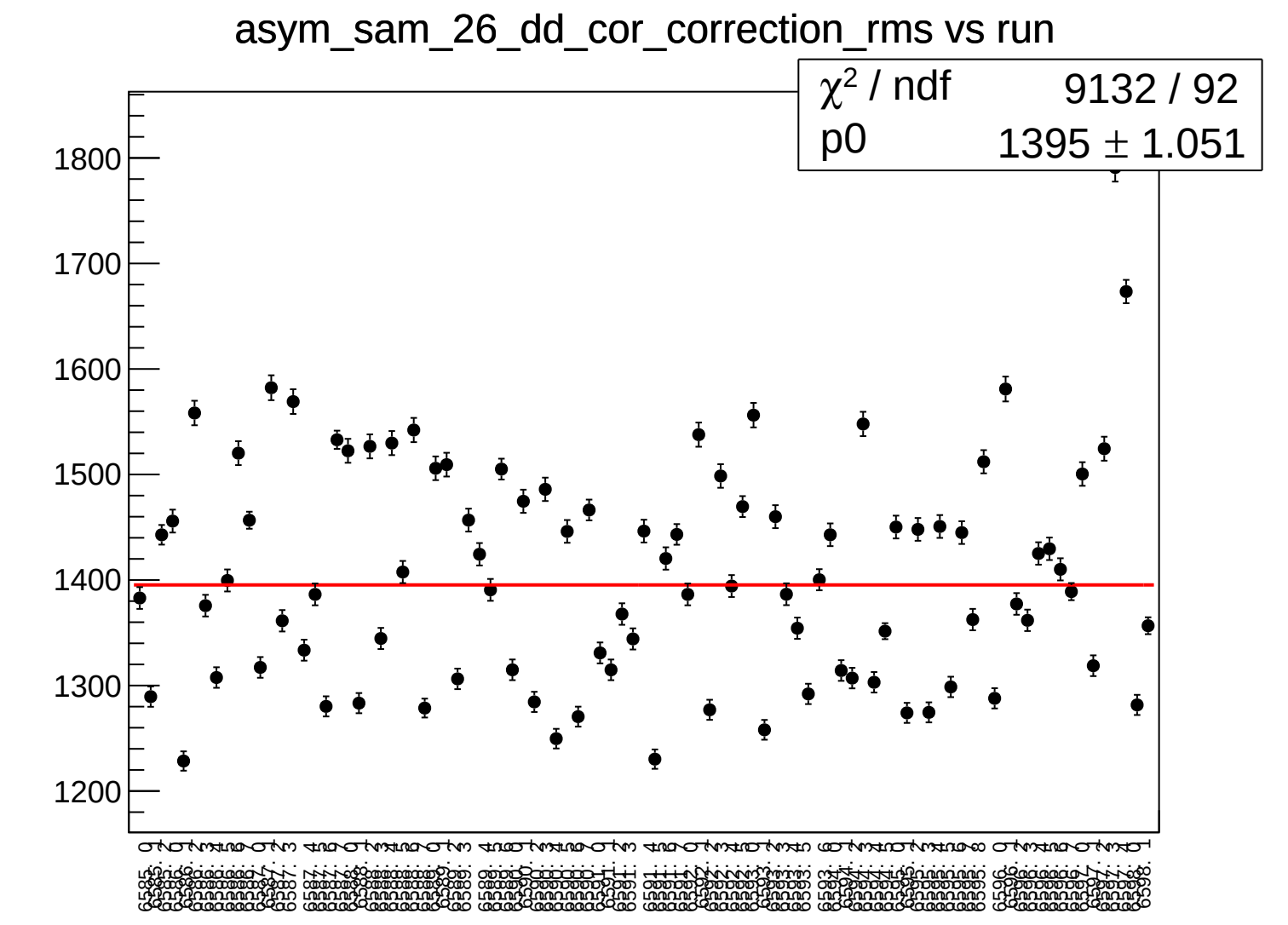

pull1D
Entries 93
Mean 0.003084
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

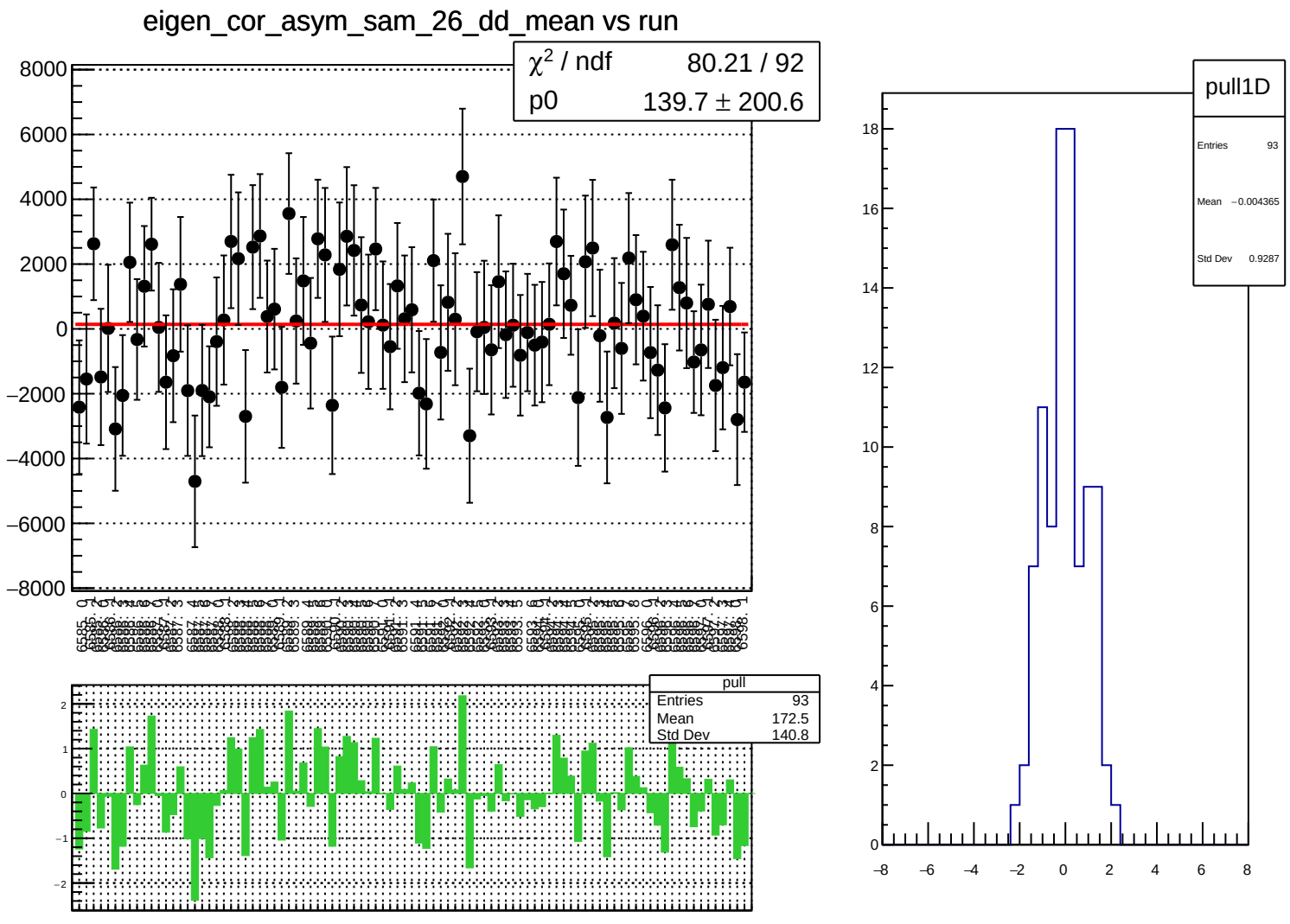

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 9132 / 92
p0 1395 ± 1.051
1800
1700
1600
1500
1400
1300
1200

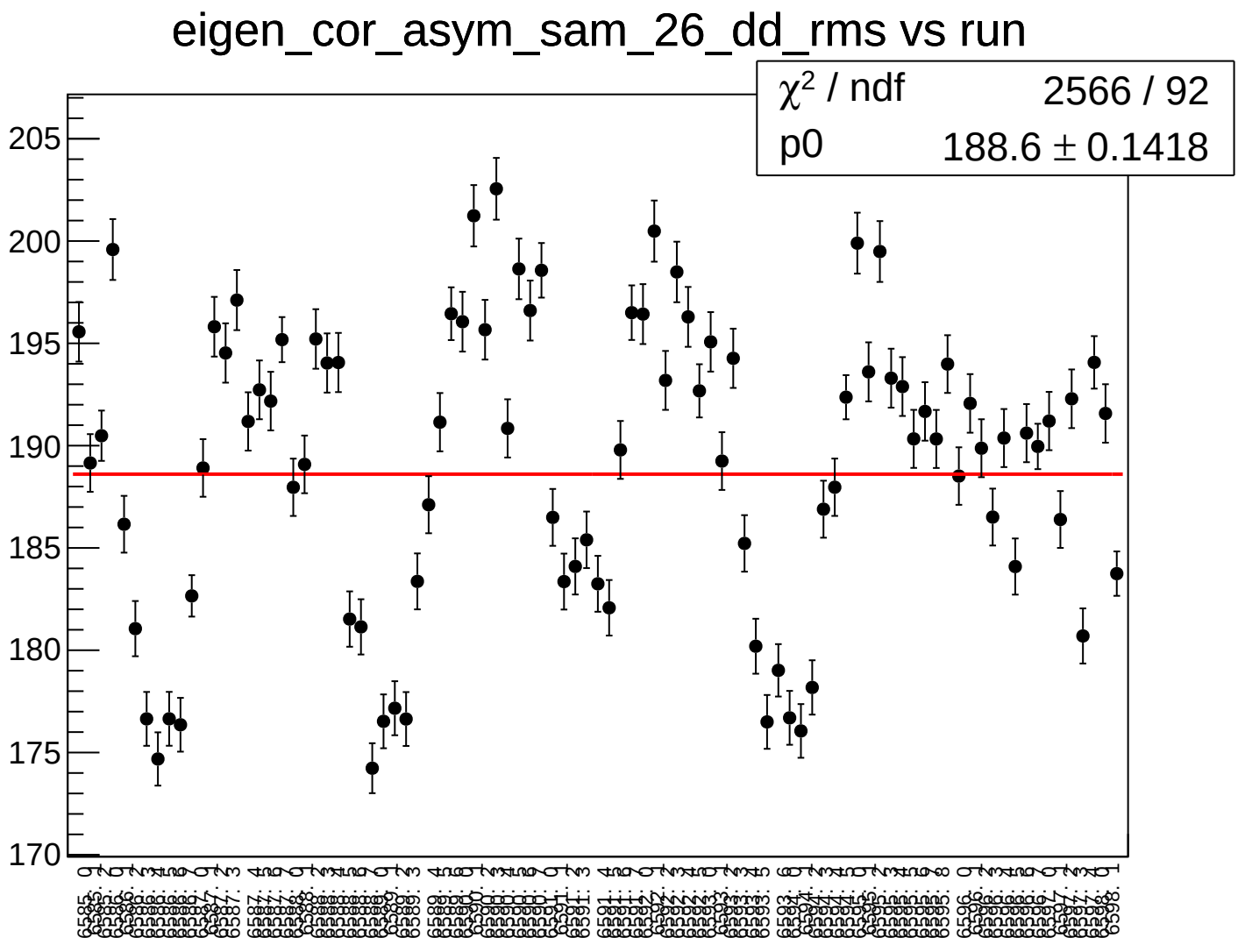

cor_asym_sam_26_dd_mean vs run
χ² / ndf 80.21 / 92
p0 139.7 ± 200.6
pull
Entries 93
Mean 172.5
Std Dev 140.8
pull1D
Entries 93
Mean −0.004365
Std Dev 0.9287

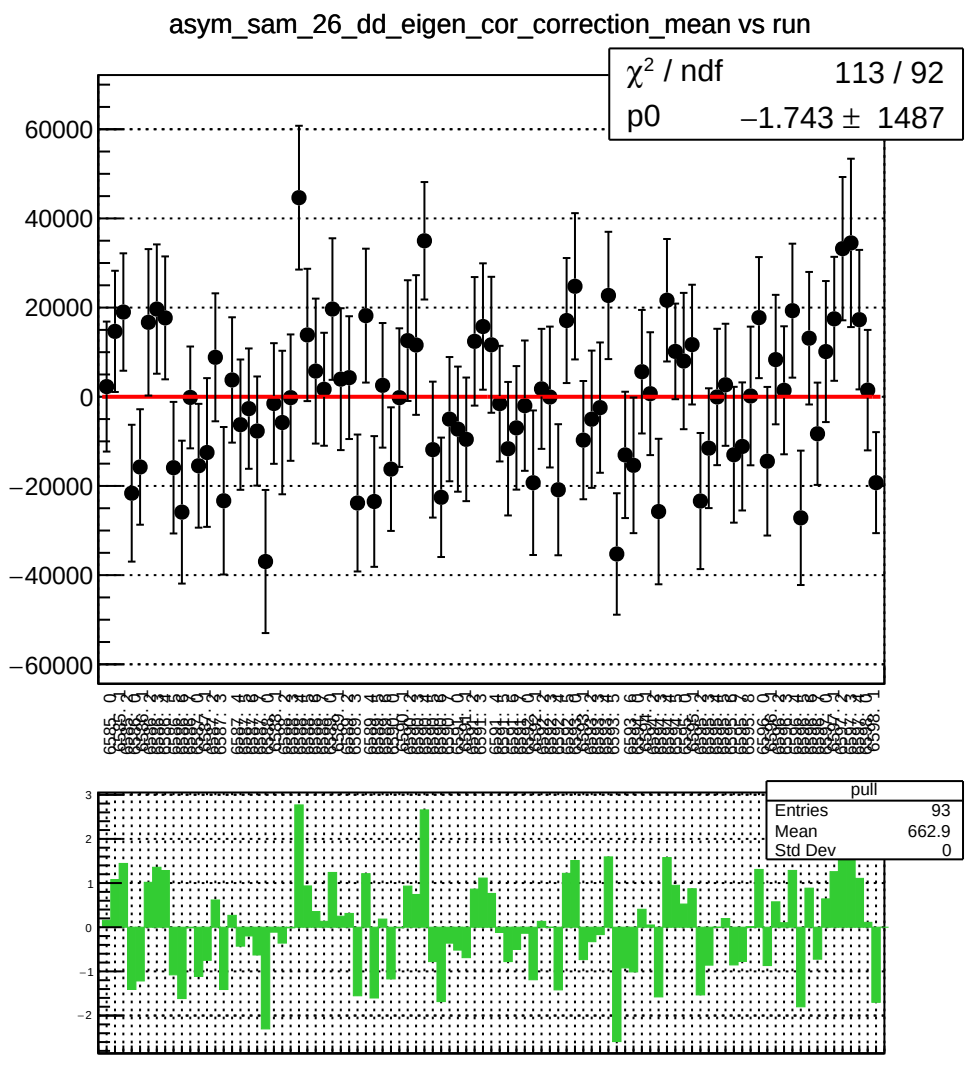

cor_asym_sam_26_dd_rms vs run
χ² / ndf 2566 / 92
p0 188.6 ± 0.1418
205
200
195
190
185
180
175
170

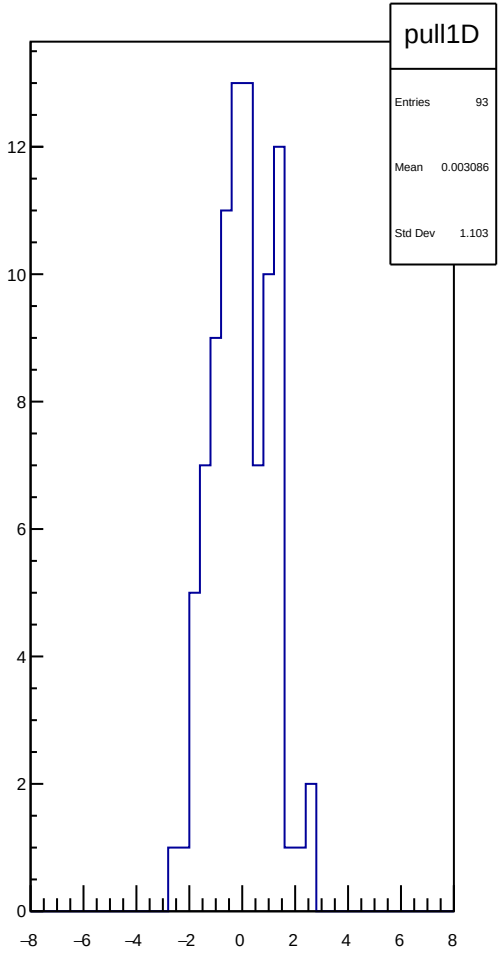

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 113 / 92
p0 −1.743 ± 1487
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 662.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003086
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

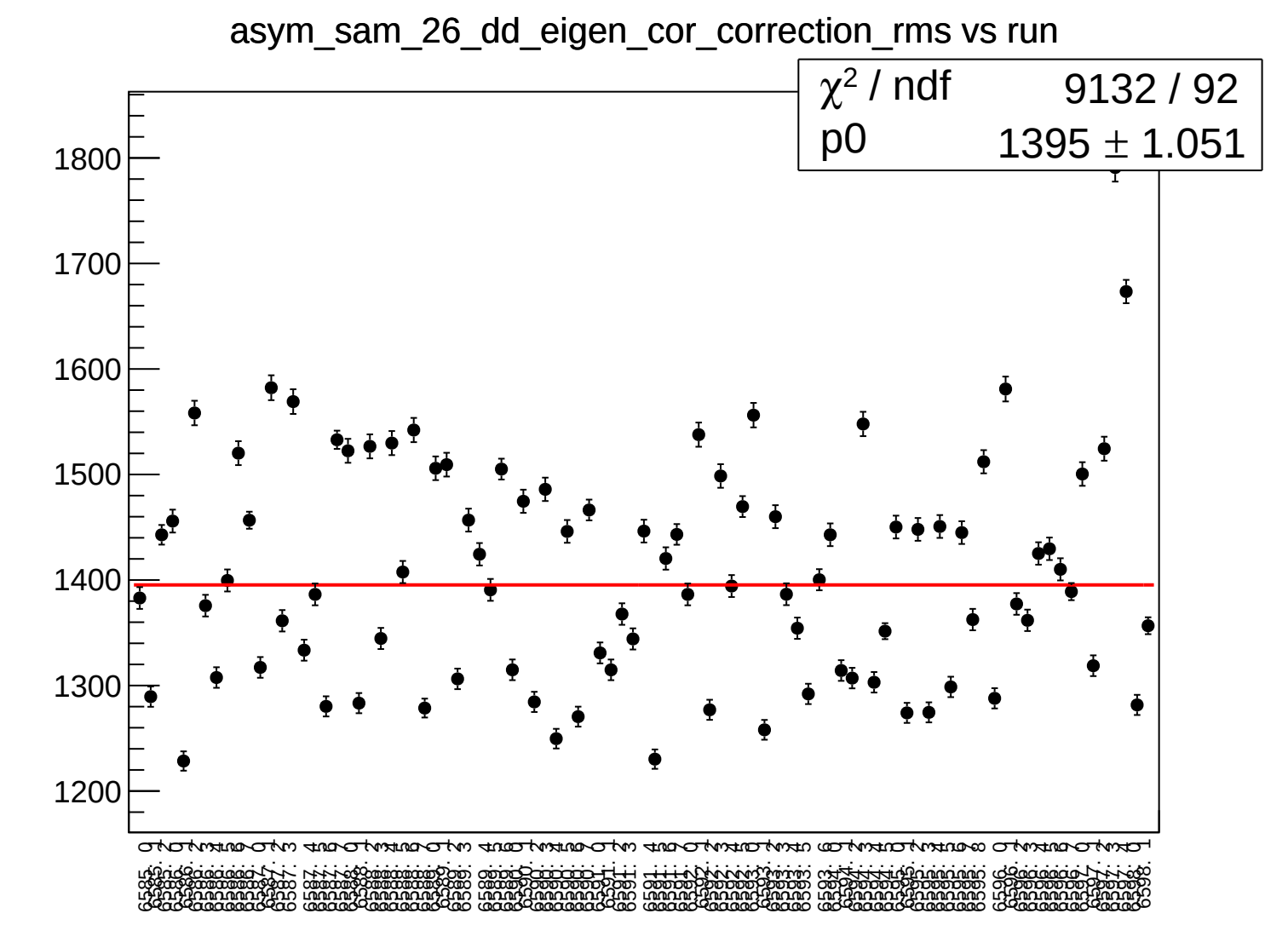

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 9132 / 92
p0 1395 ± 1.051
1800
1700
1600
1500
1400
1300
1200

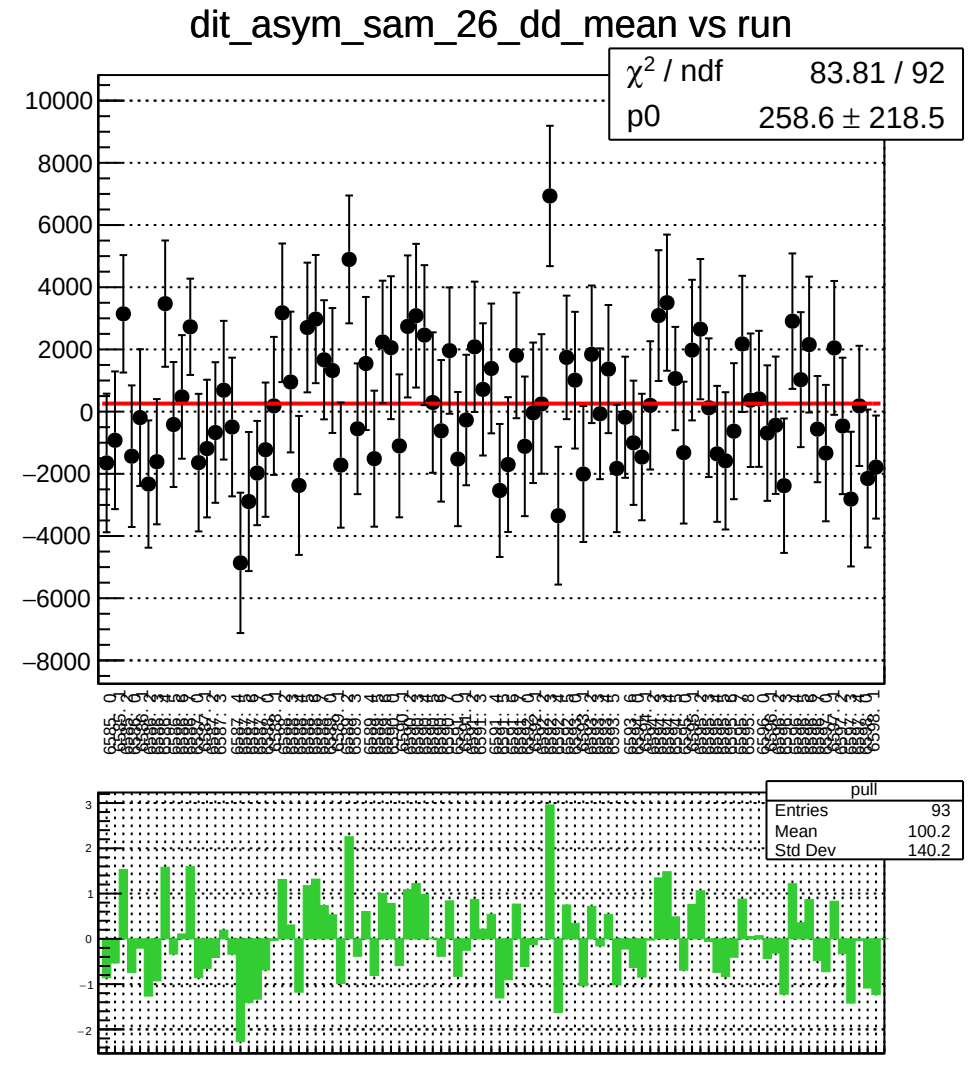

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 80.21 / 92
p0 139.7 ± 200.6
pull
Entries 93
Mean 172.5
Std Dev 140.8
pull1D
Entries 93
Mean −0.004365
Std Dev 0.9287

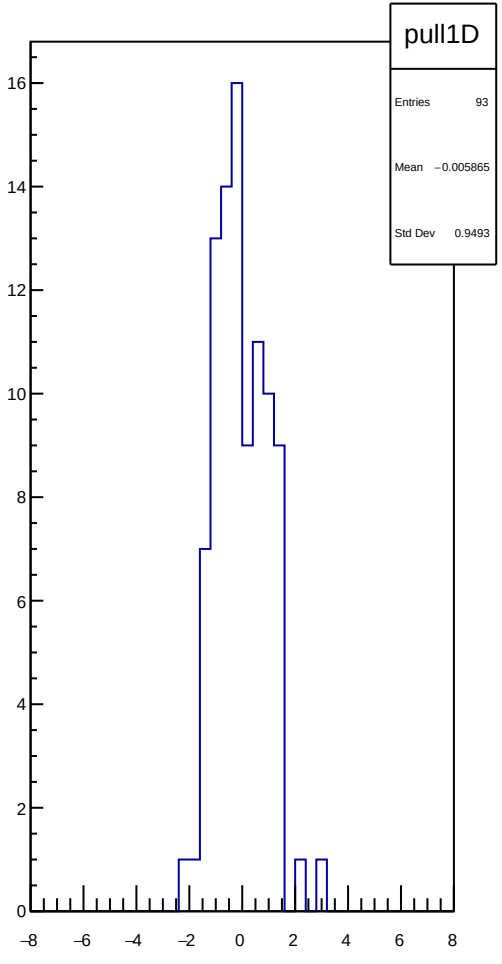

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 2566 / 92
p0 188.6 ± 0.1418
205
200
195
190
185
180
175
170

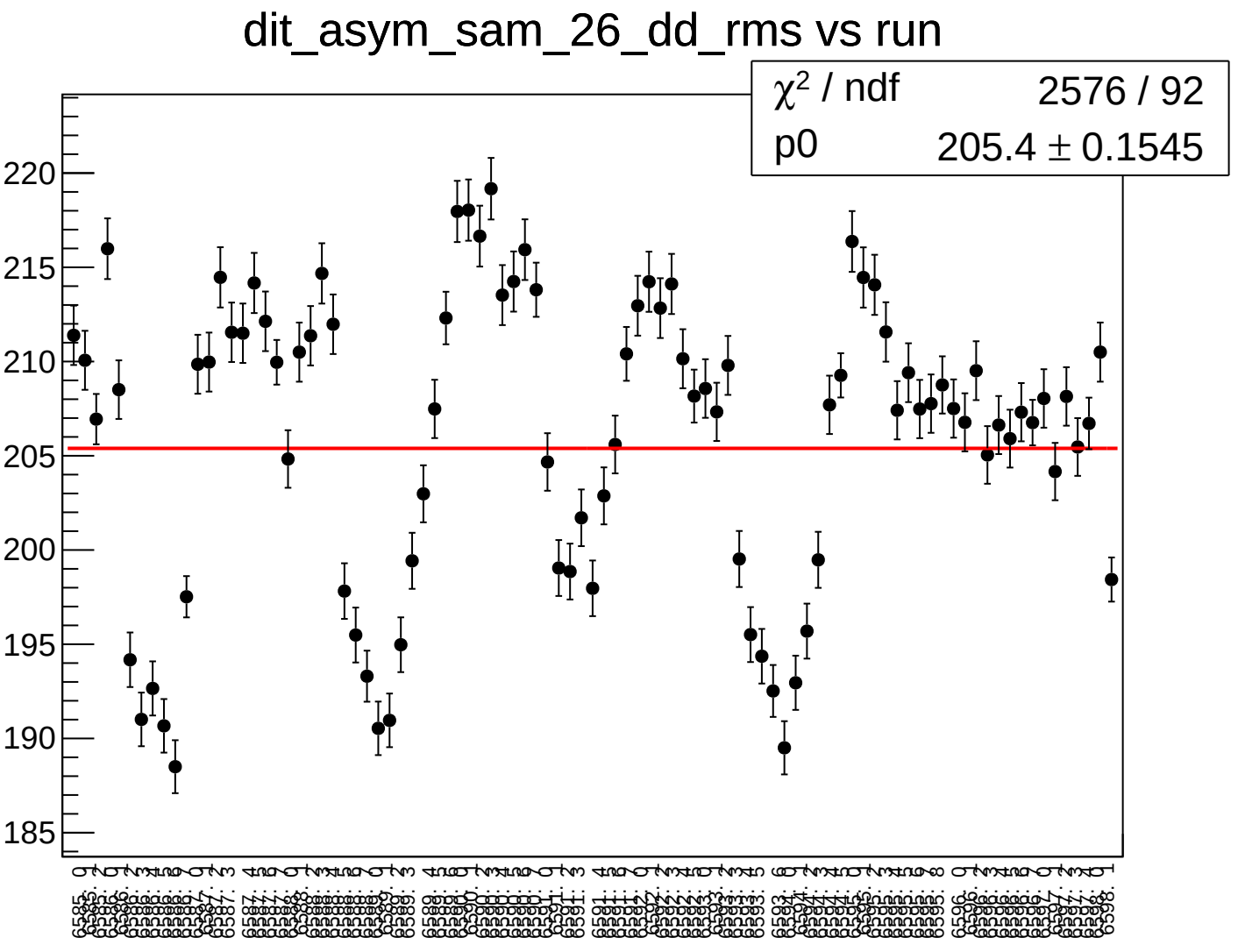

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 113 / 92
p0 −1.743 ± 1487
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 662.9
Std Dev 0
3
2
1
0
−1
−2

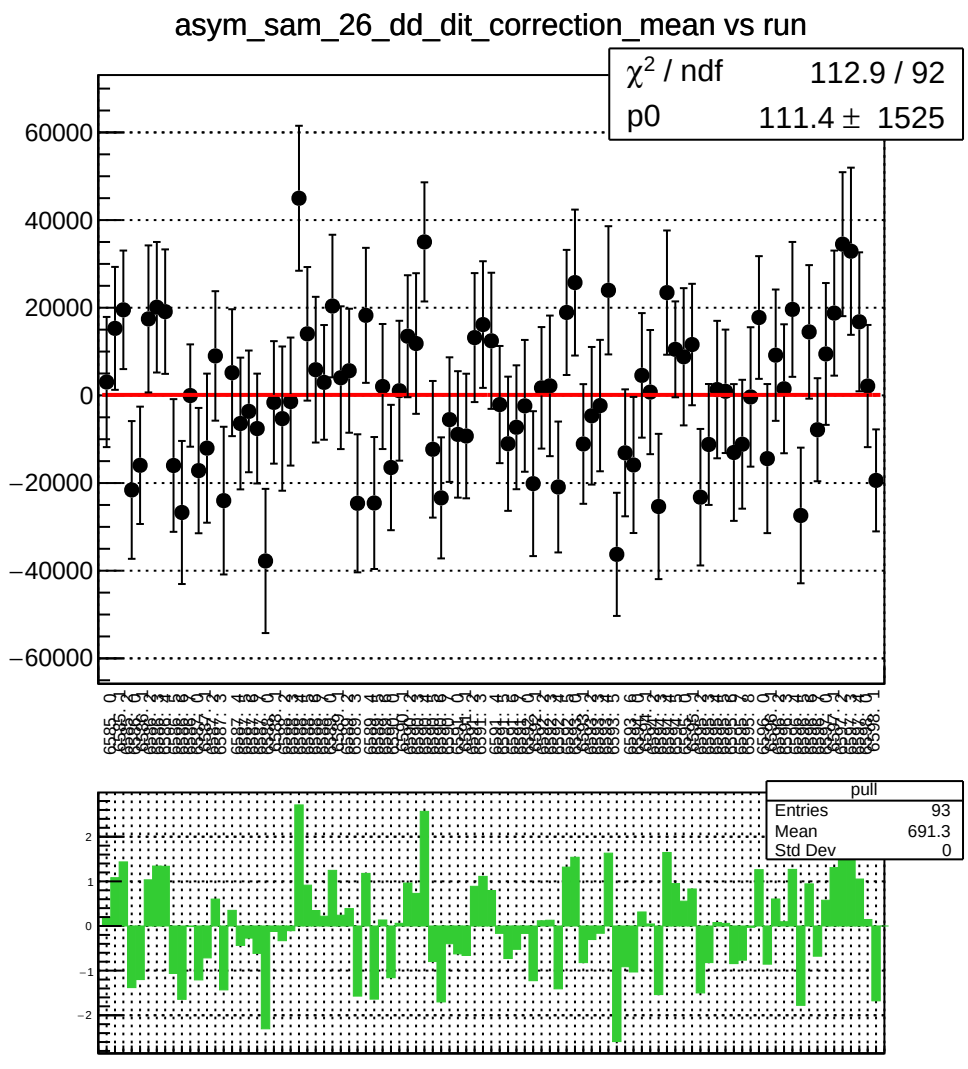

pull1D
Entries 93
Mean 0.003086
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

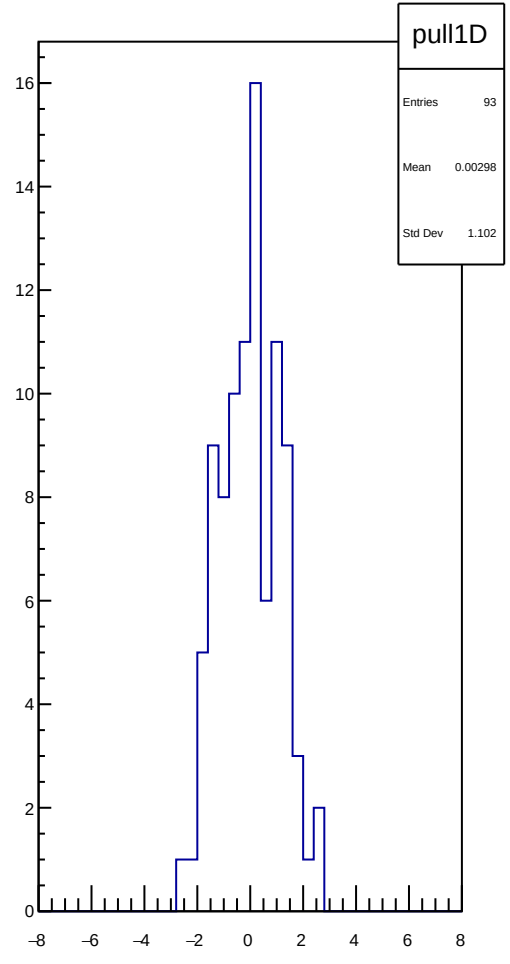

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 9132 / 92
p0 1395 ± 1.051
1800
1700
1600
1500
1400
1300
1200

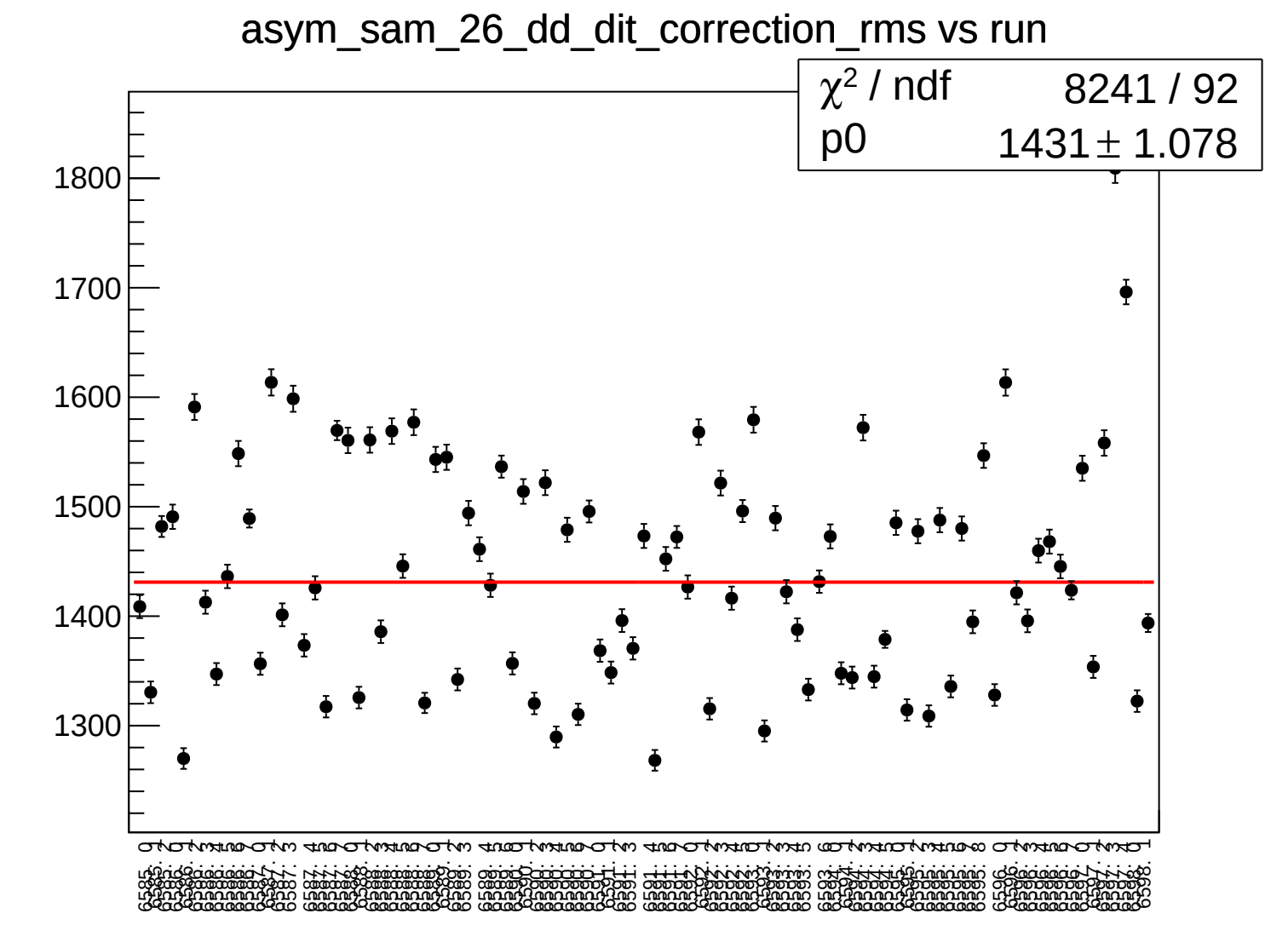

dit_asym_sam_26_dd_mean vs run
χ² / ndf 83.81 / 92
p0 258.6 ± 218.5
pull
Entries 93
Mean 100.2
Std Dev 140.2

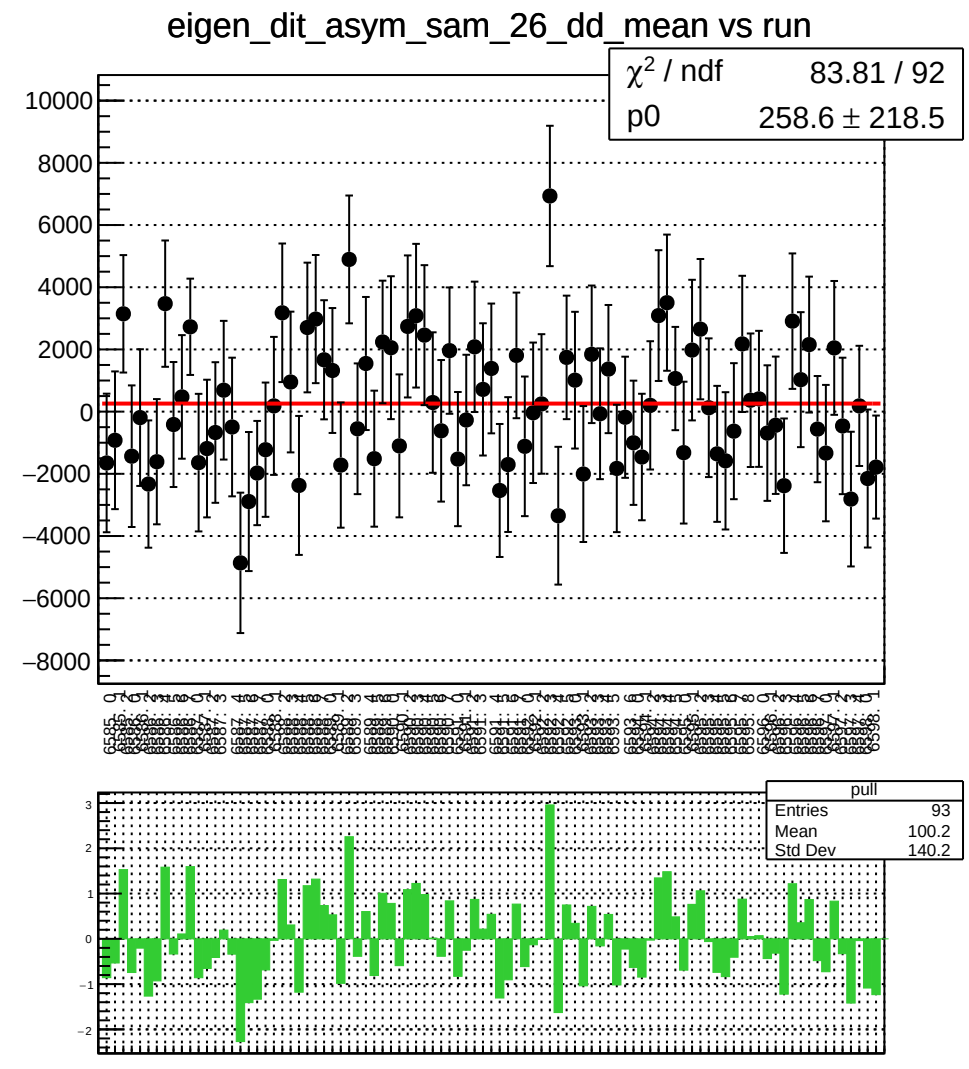

pull1D
Entries 93
Mean −0.005865
Std Dev 0.9493

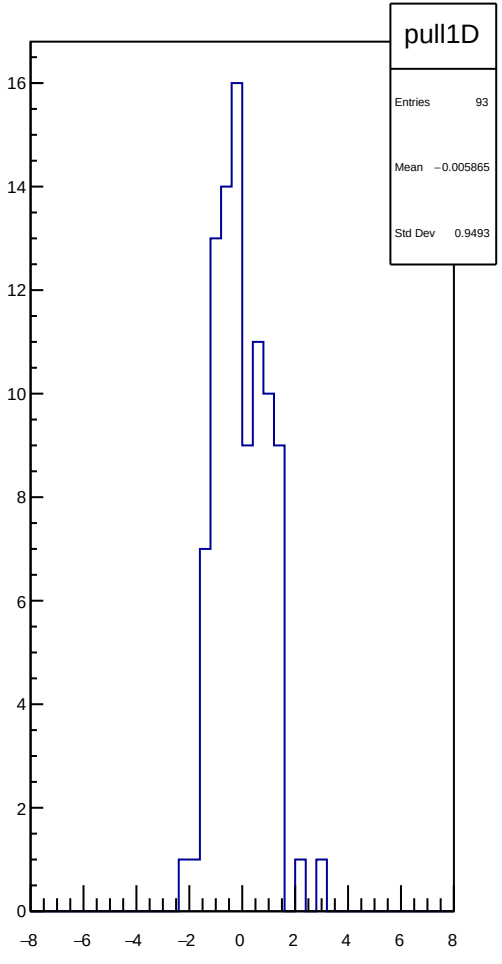

dit_asym_sam_26_dd_rms vs run
χ² / ndf 2576 / 92
p0 205.4 ± 0.1545
220
215
210
205
200
195
190
185

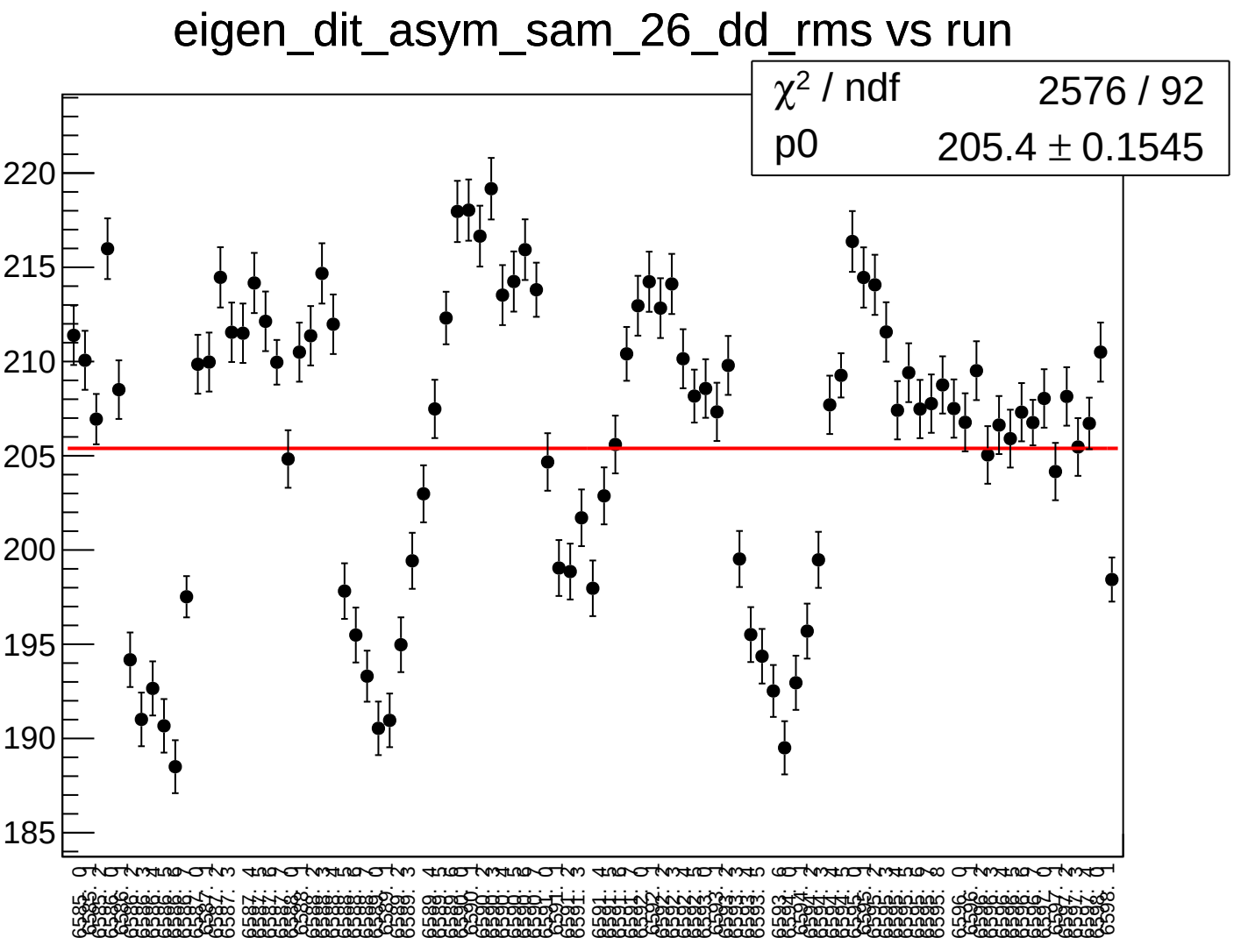

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 112.9 / 92
p0 111.4 ± 1525
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 691.3
Std Dev 0
2
1
0
−1
−2

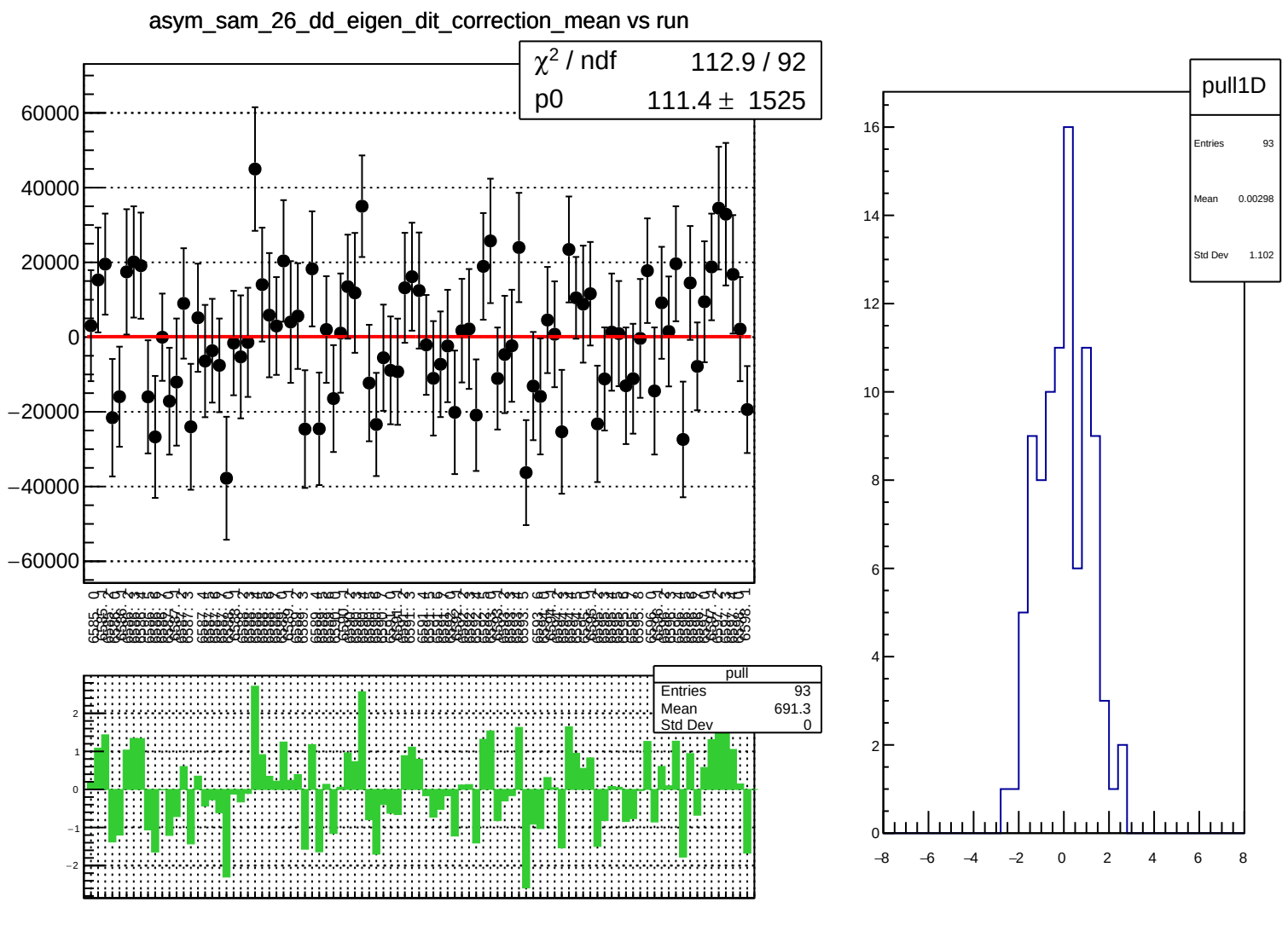

pull1D
Entries 93
Mean 0.00298
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

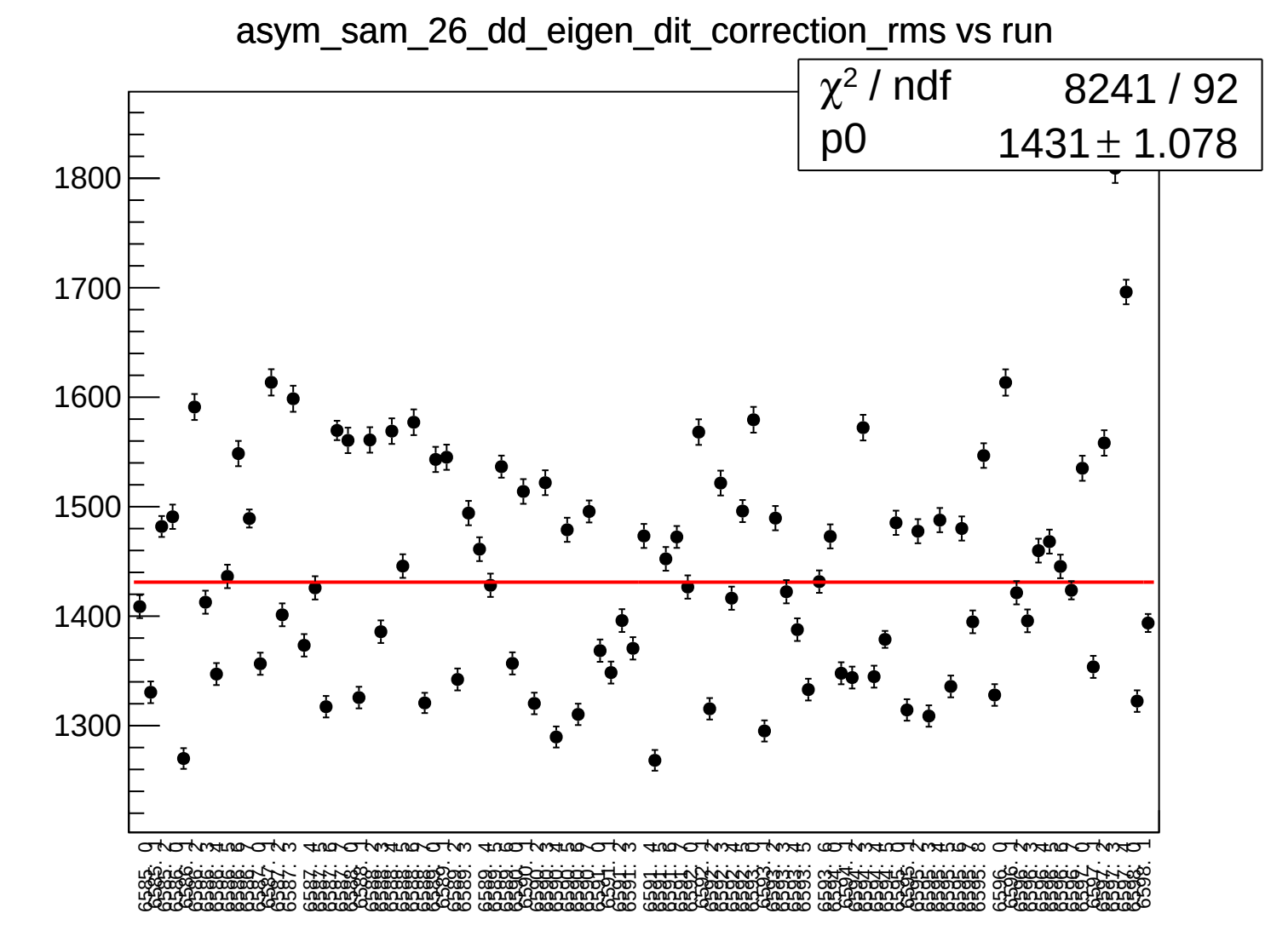

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 8241 / 92
p0 1431 ± 1.078
1800
1700
1600
1500
1400
1300

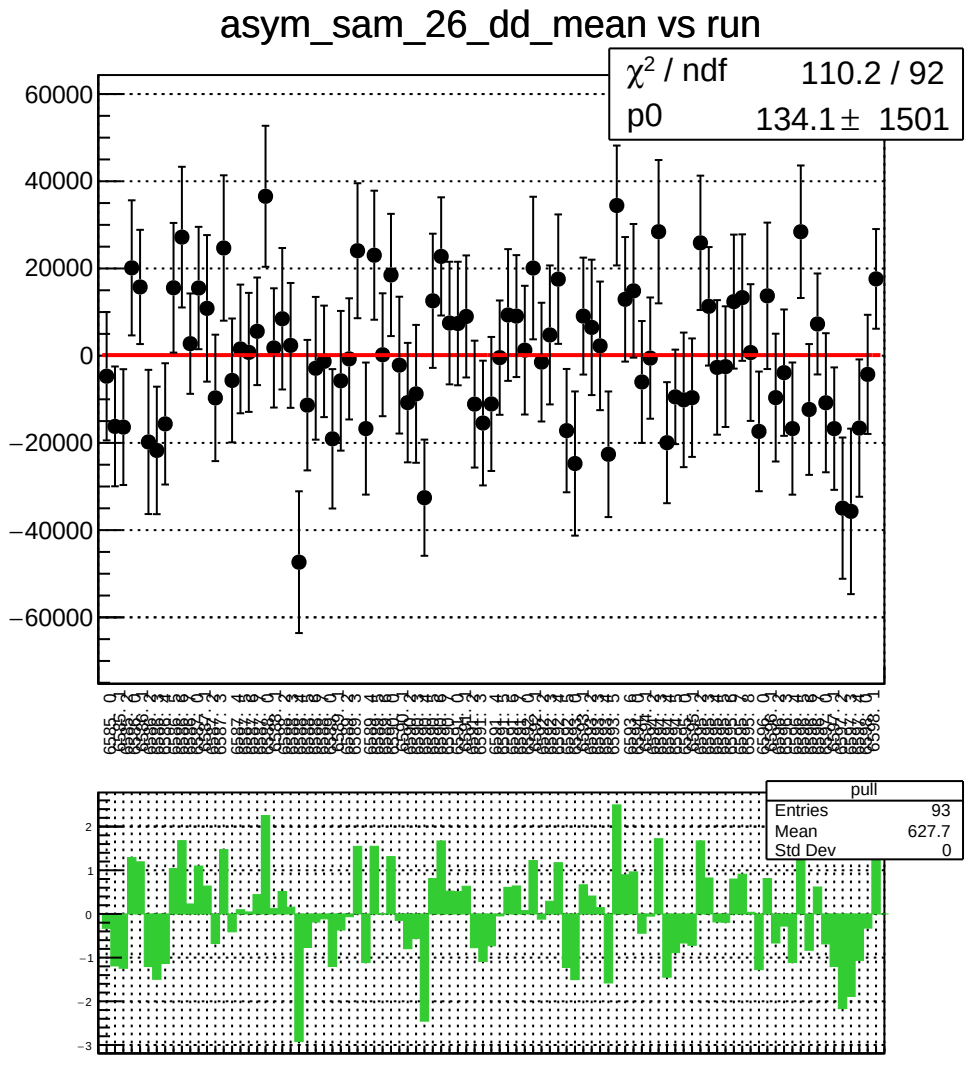

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 83.81 / 92
p0 258.6 ± 218.5
pull
Entries 93
Mean 100.2
Std Dev 140.2

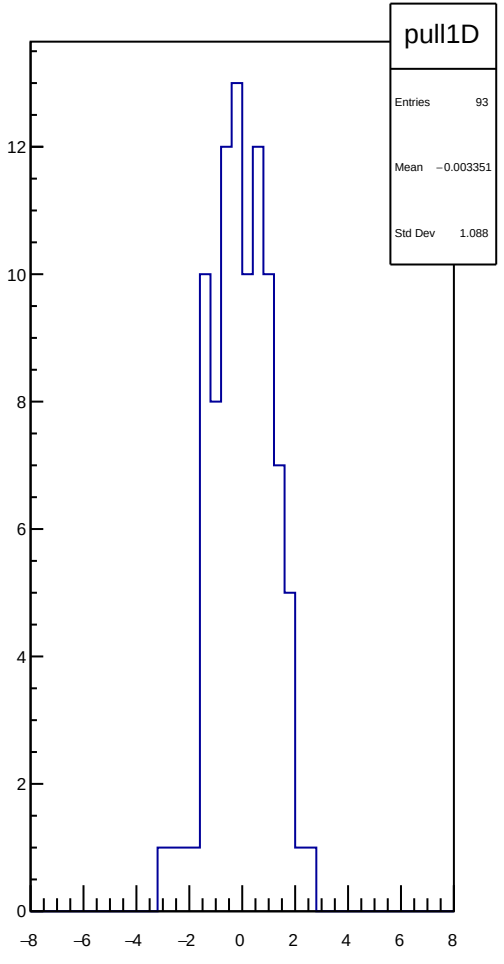

pull1D
Entries 93
Mean −0.005865
Std Dev 0.9493

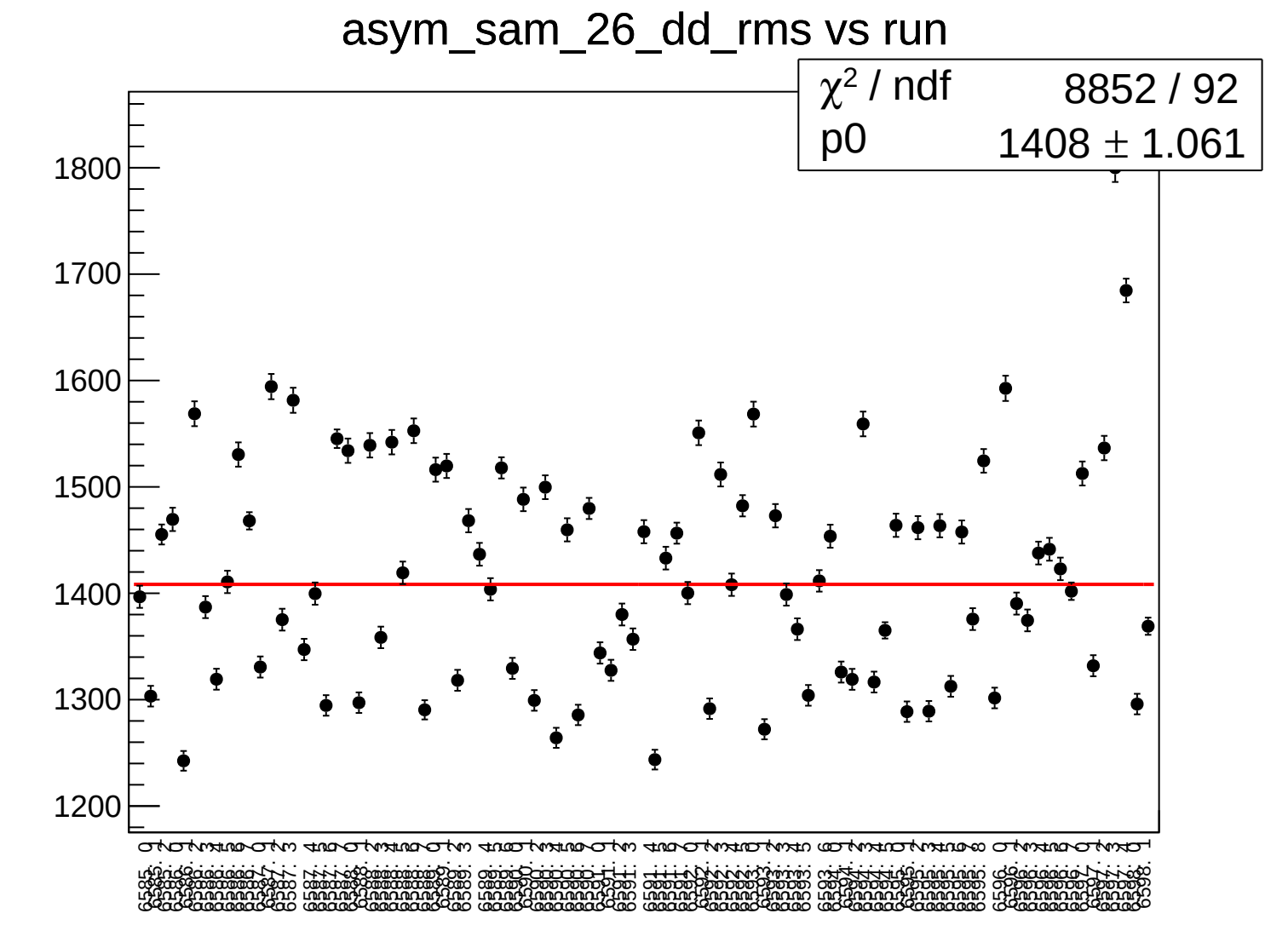

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 2576 / 92
p0 205.4 ± 0.1545
220
215
210
205
200
195
190
185

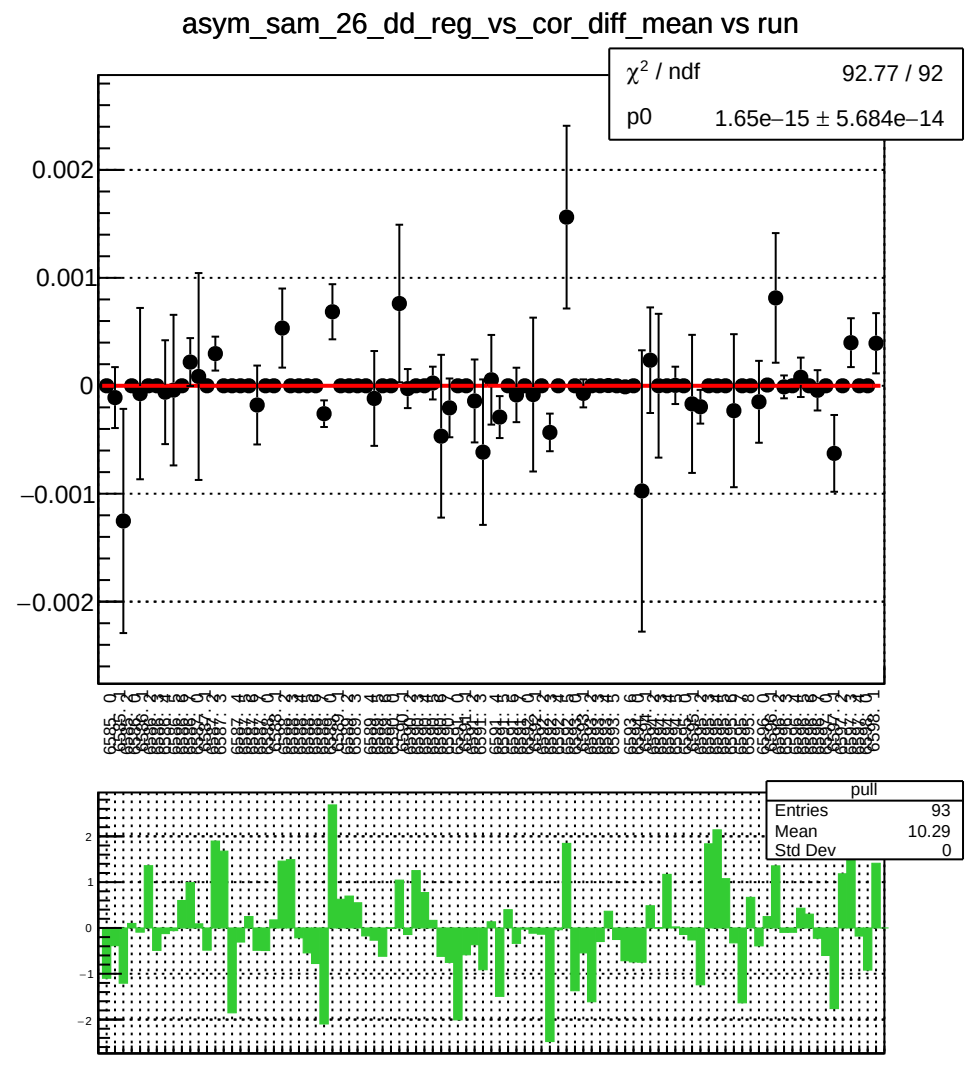

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.9 / 92
p0 111.4 ± 1525
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 691.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00298
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

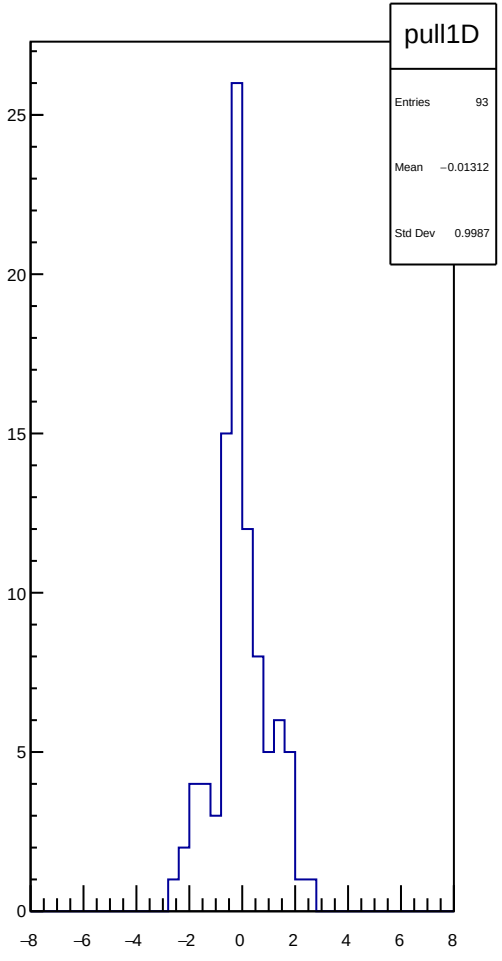

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8241 / 92
p0 1431 ± 1.078
1800
1700
1600
1500
1400
1300

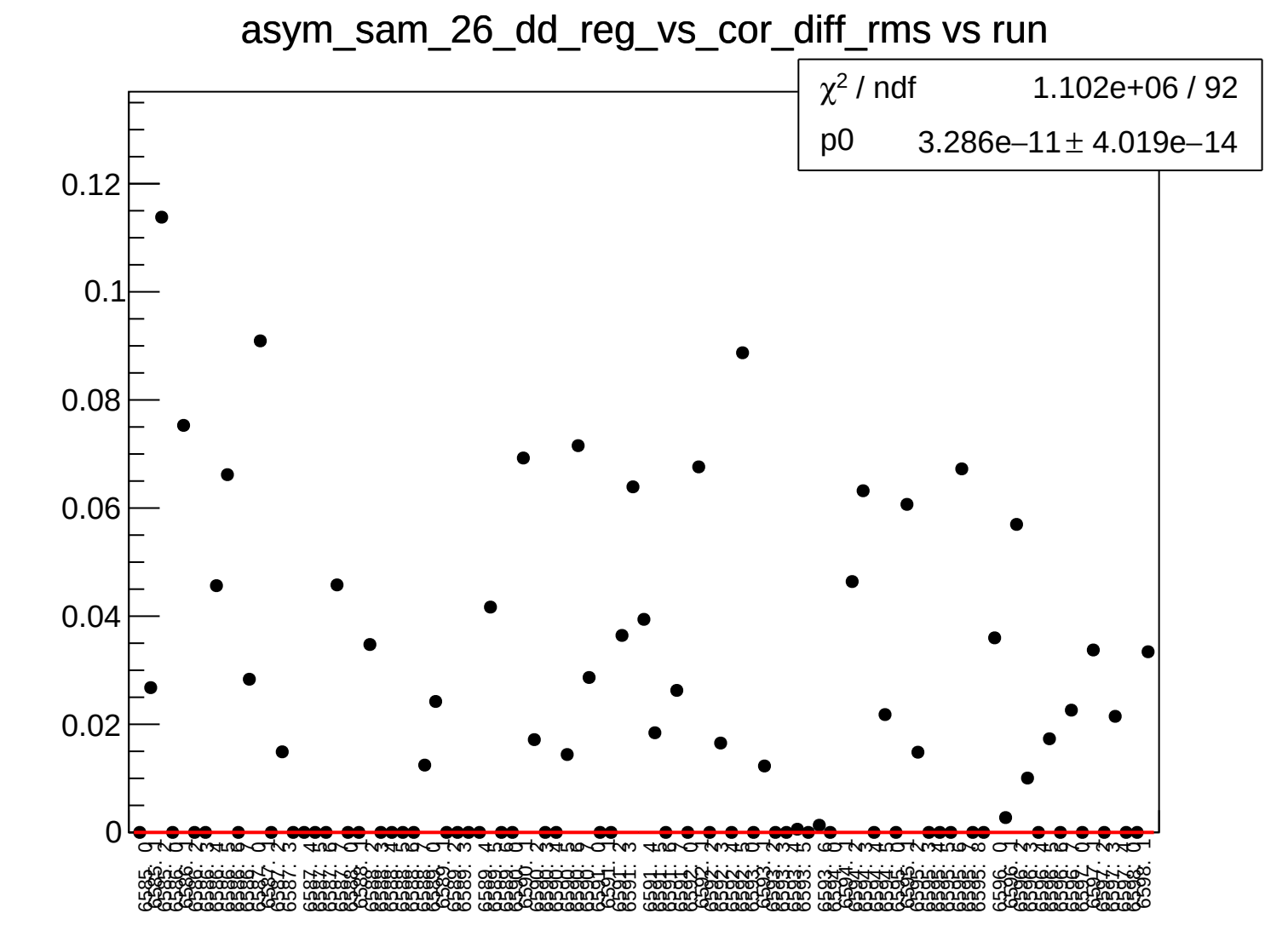

asym_sam_26_dd_mean vs run
χ² / ndf 110.2 / 92
p0 134.1 ± 1501
pull
Entries 93
Mean 627.7
Std Dev 0

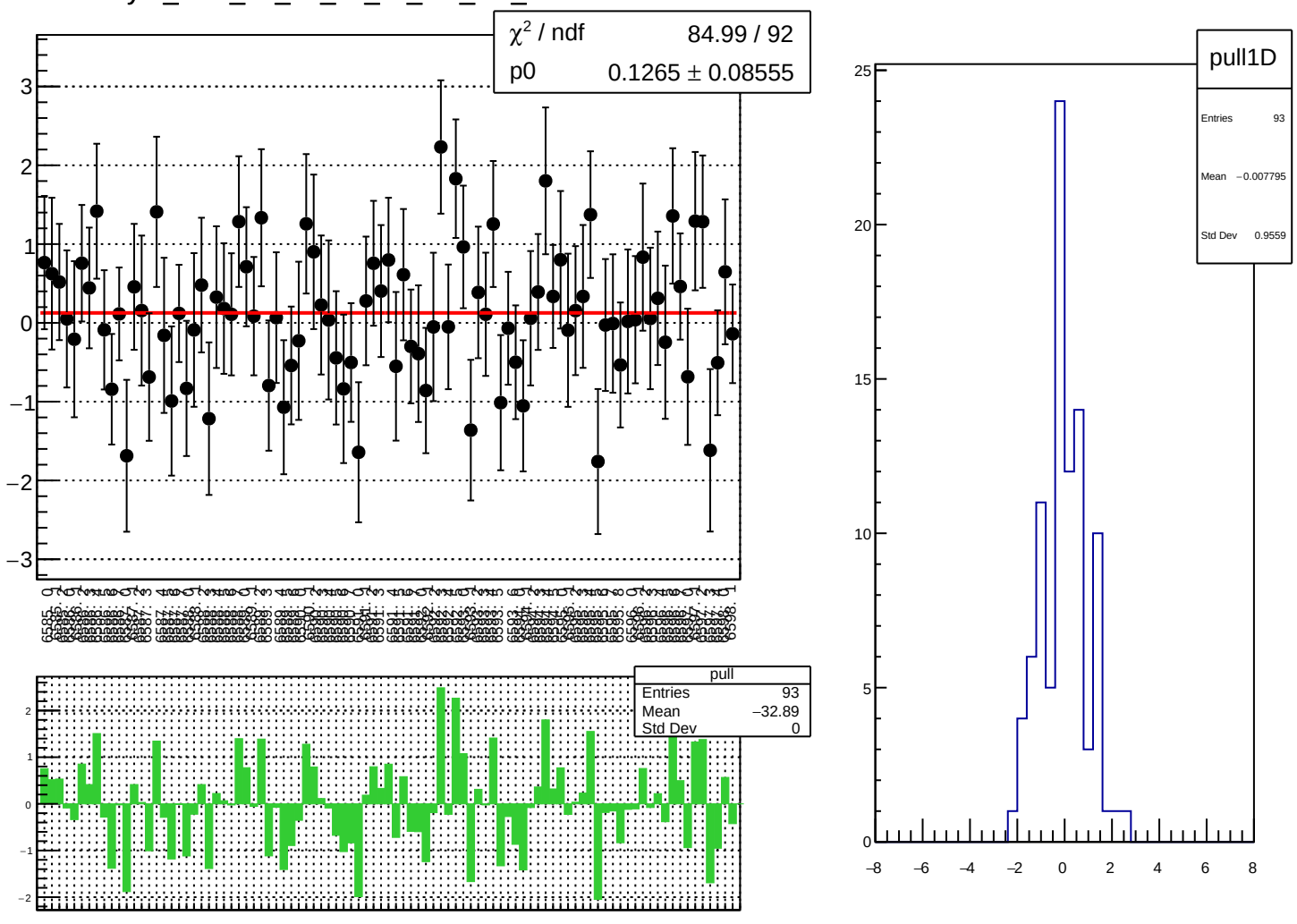

pull1D
Entries 93
Mean −0.003351
Std Dev 1.088

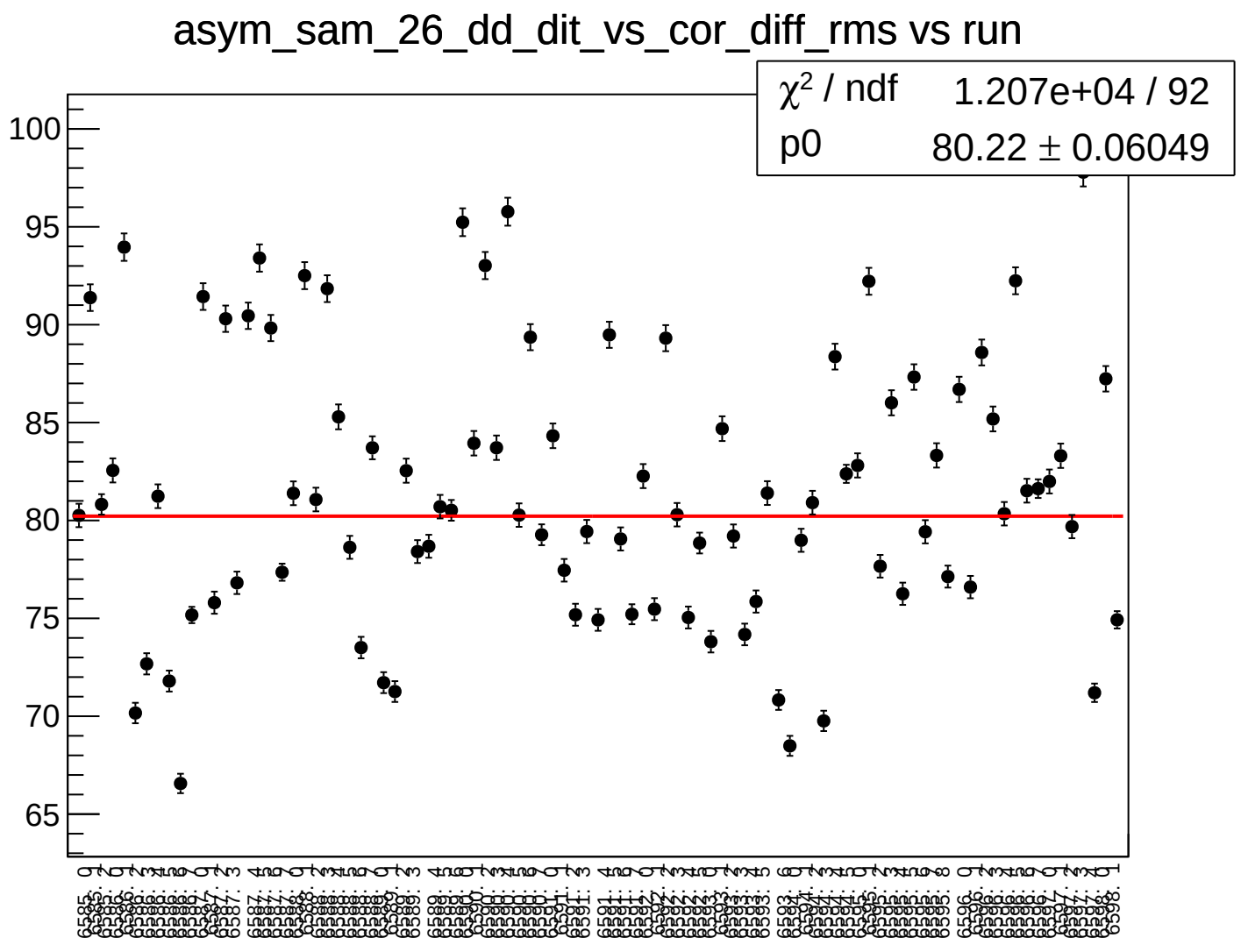

asym_sam_26_dd_rms vs run
χ² / ndf 8852 / 92
p0 1408 ± 1.061
1800
1700
1600
1500
1400
1300
1200

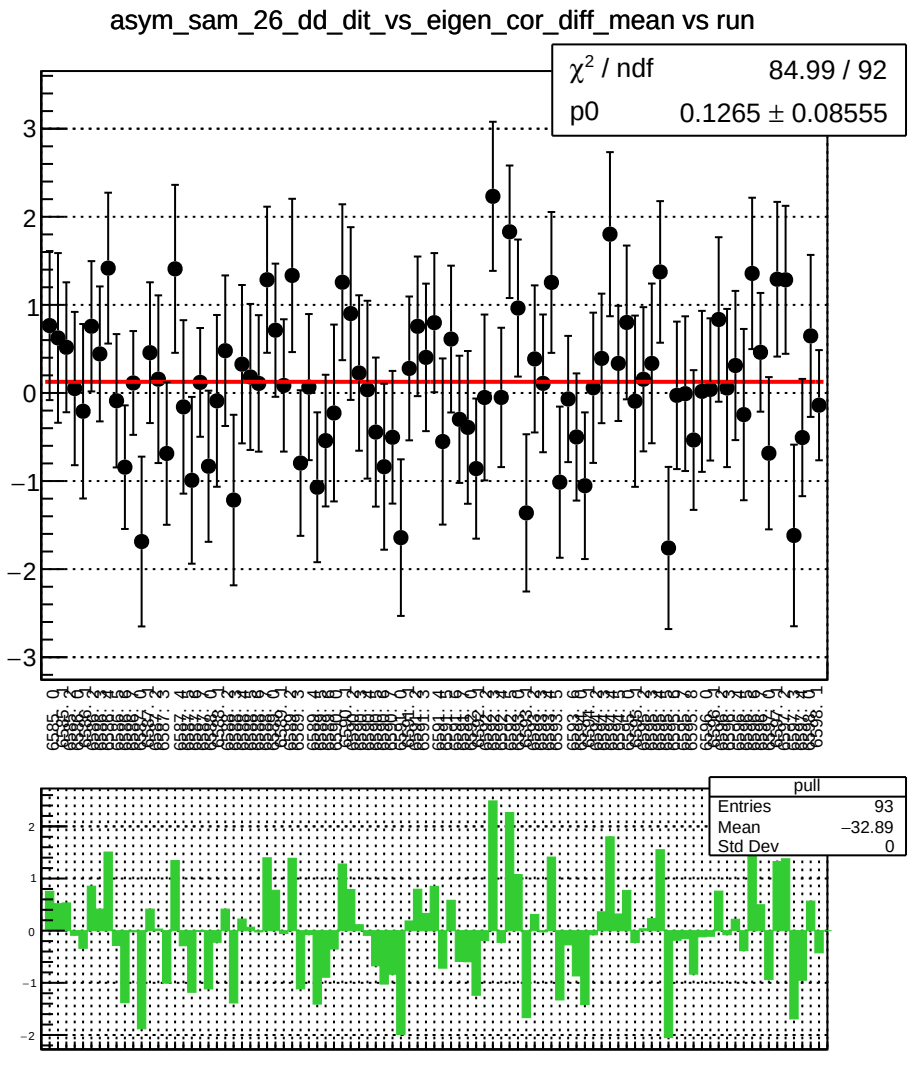

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.77 / 92
p0 1.65e−15 ± 5.684e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 93
Mean 10.29
Std Dev 0
2
1
0
−1
−2

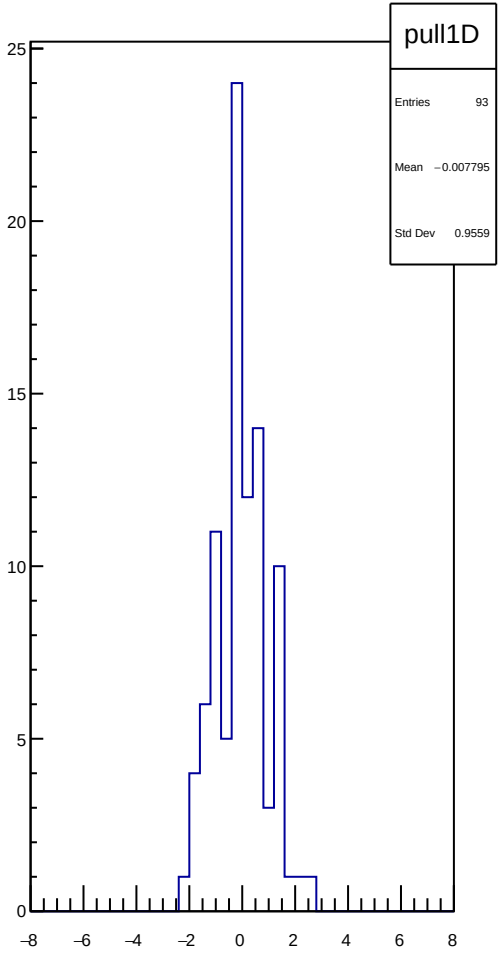

pull1D
Entries 93
Mean −0.01312
Std Dev 0.9987
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

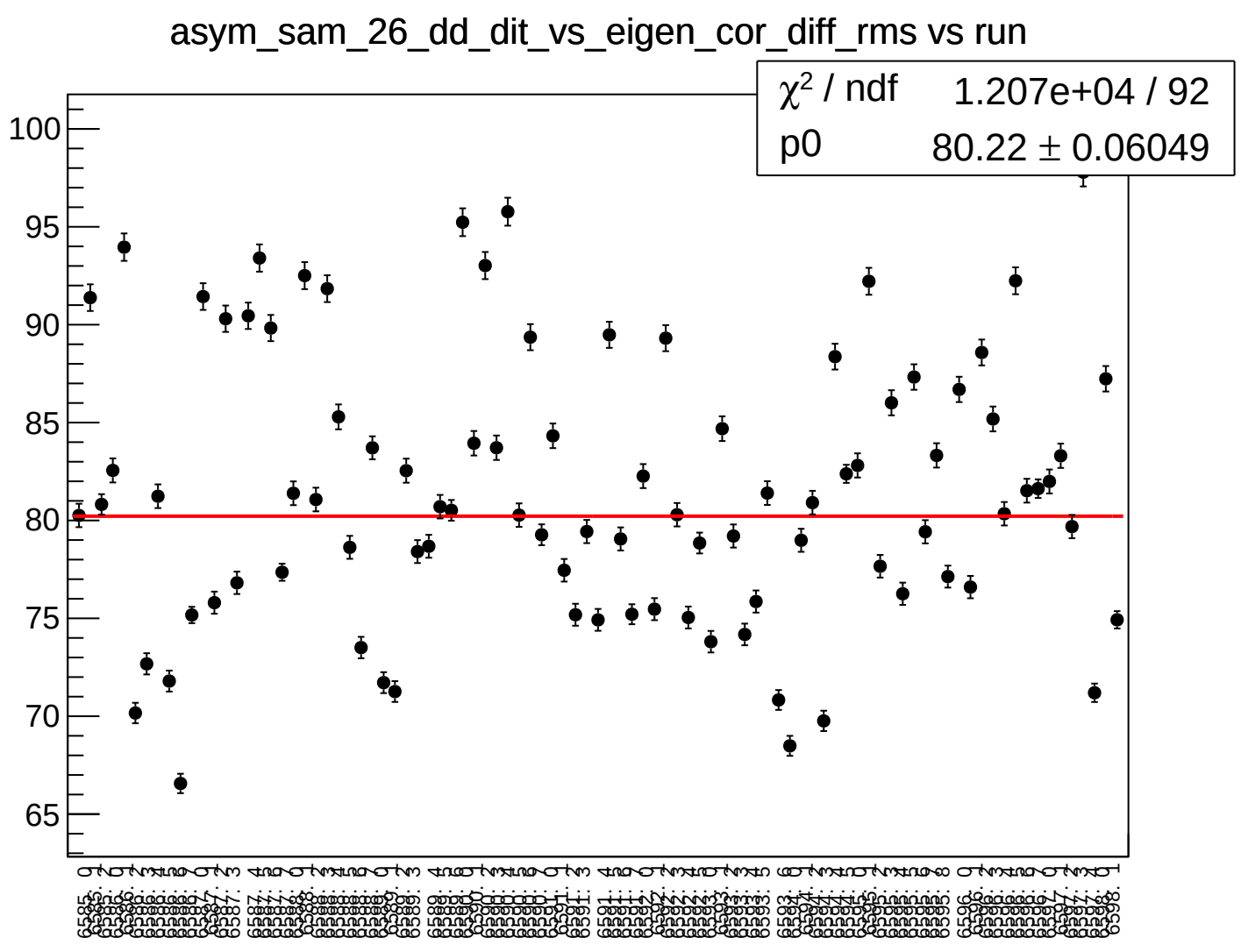

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 92
p0 3.286e−11 ± 4.019e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

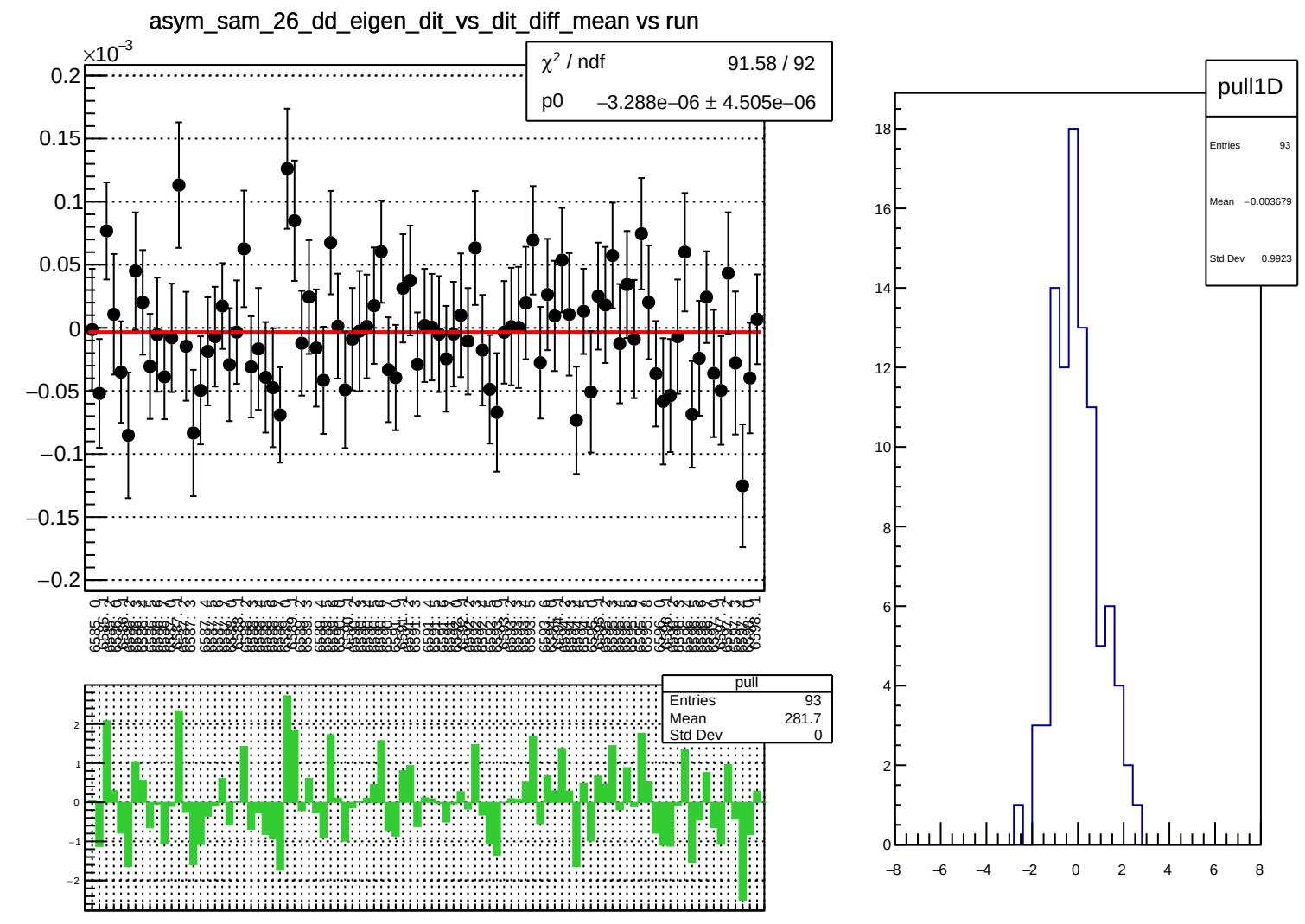

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.99 / 92
p0 0.1265 ± 0.08555
pull
Entries 93
Mean −32.89
Std Dev 0
pull1D
Entries 93
Mean −0.007795
Std Dev 0.9559

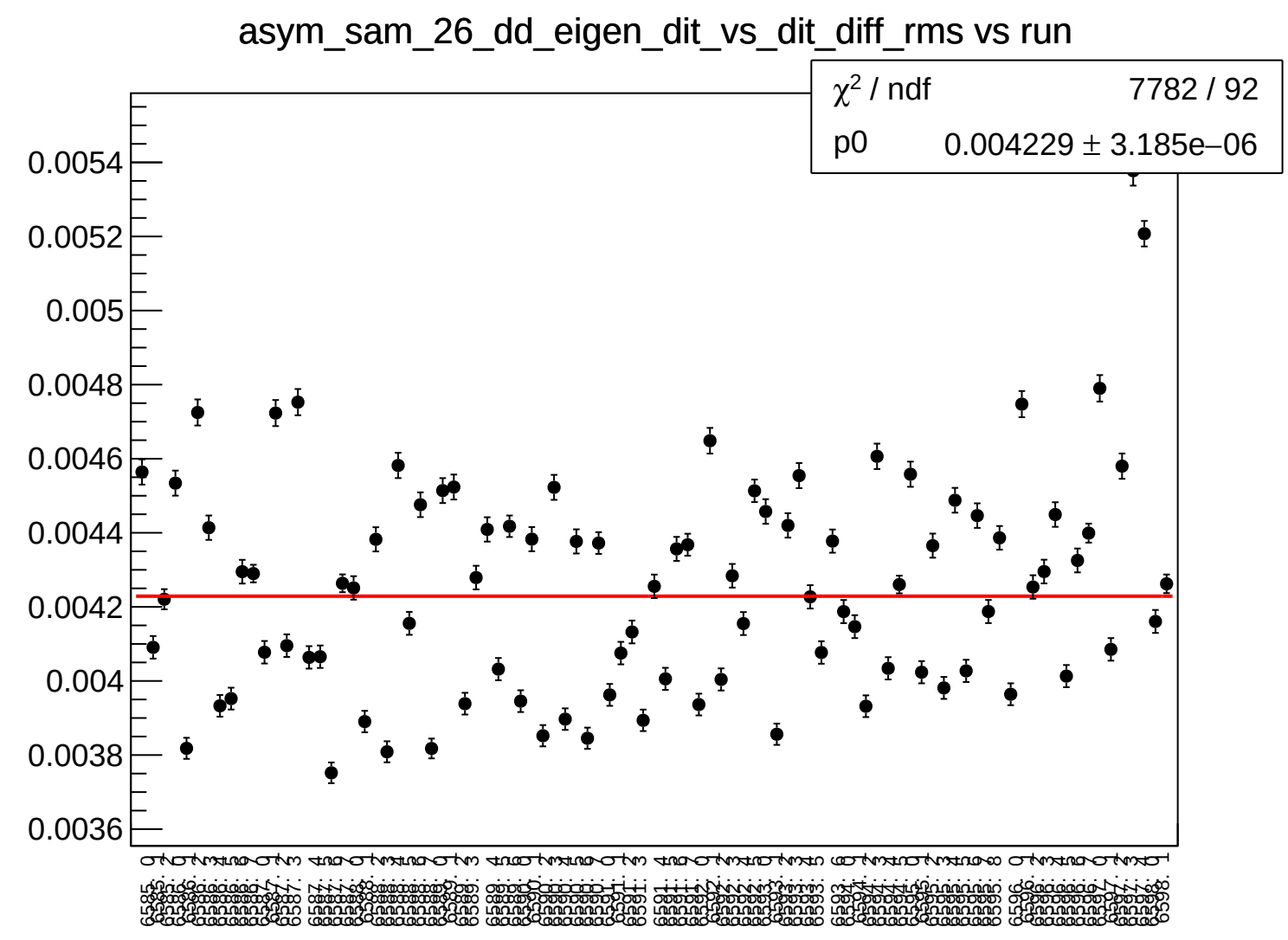

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.207e+04 / 92
p0 80.22 ± 0.06049
100
95
90
85
80
75
70
65

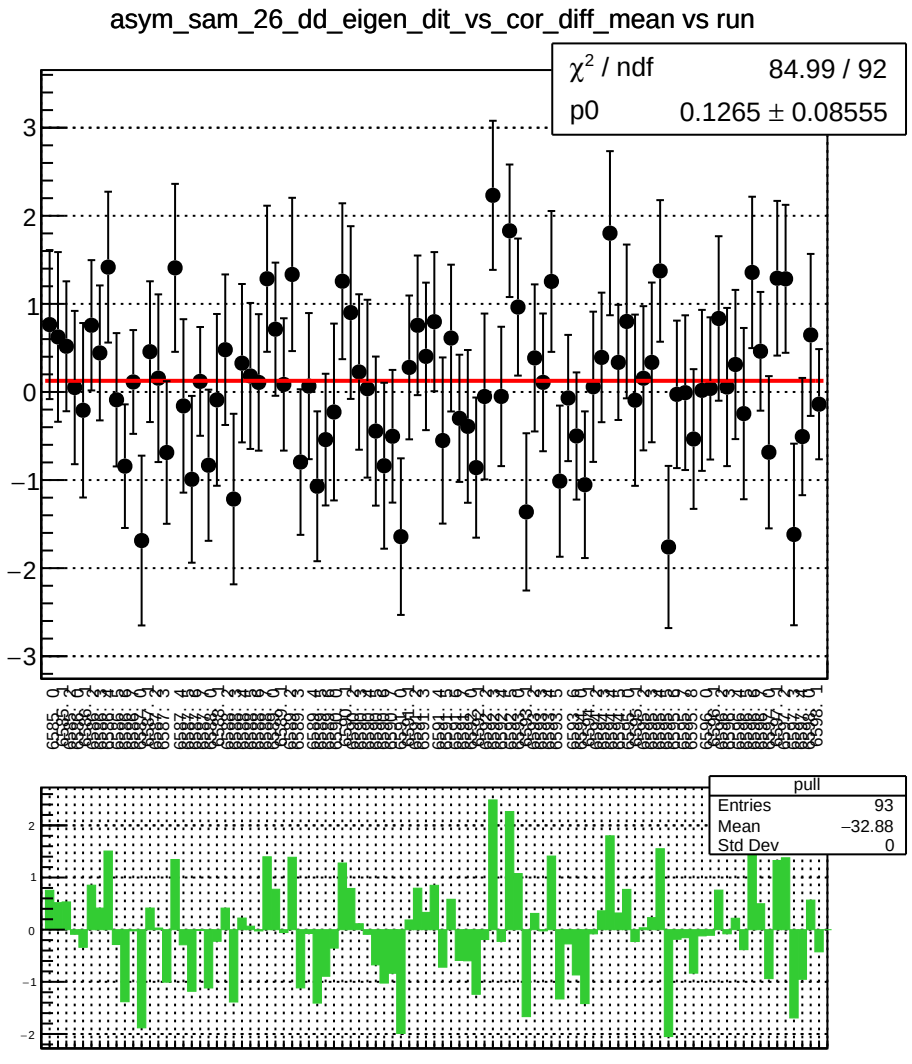

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.99 / 92
p0 0.1265 ± 0.08555
pull
Entries 93
Mean −32.89
Std Dev 0

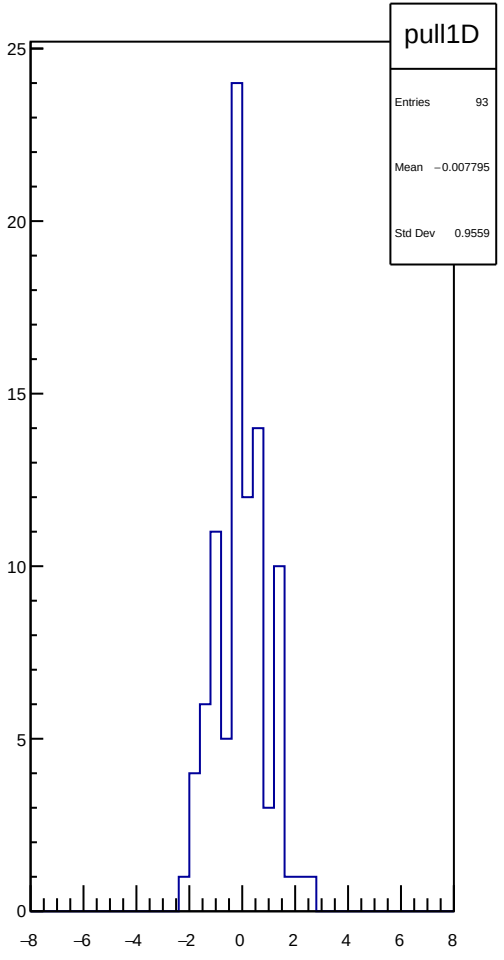

pull1D
Entries 93
Mean −0.007795
Std Dev 0.9559

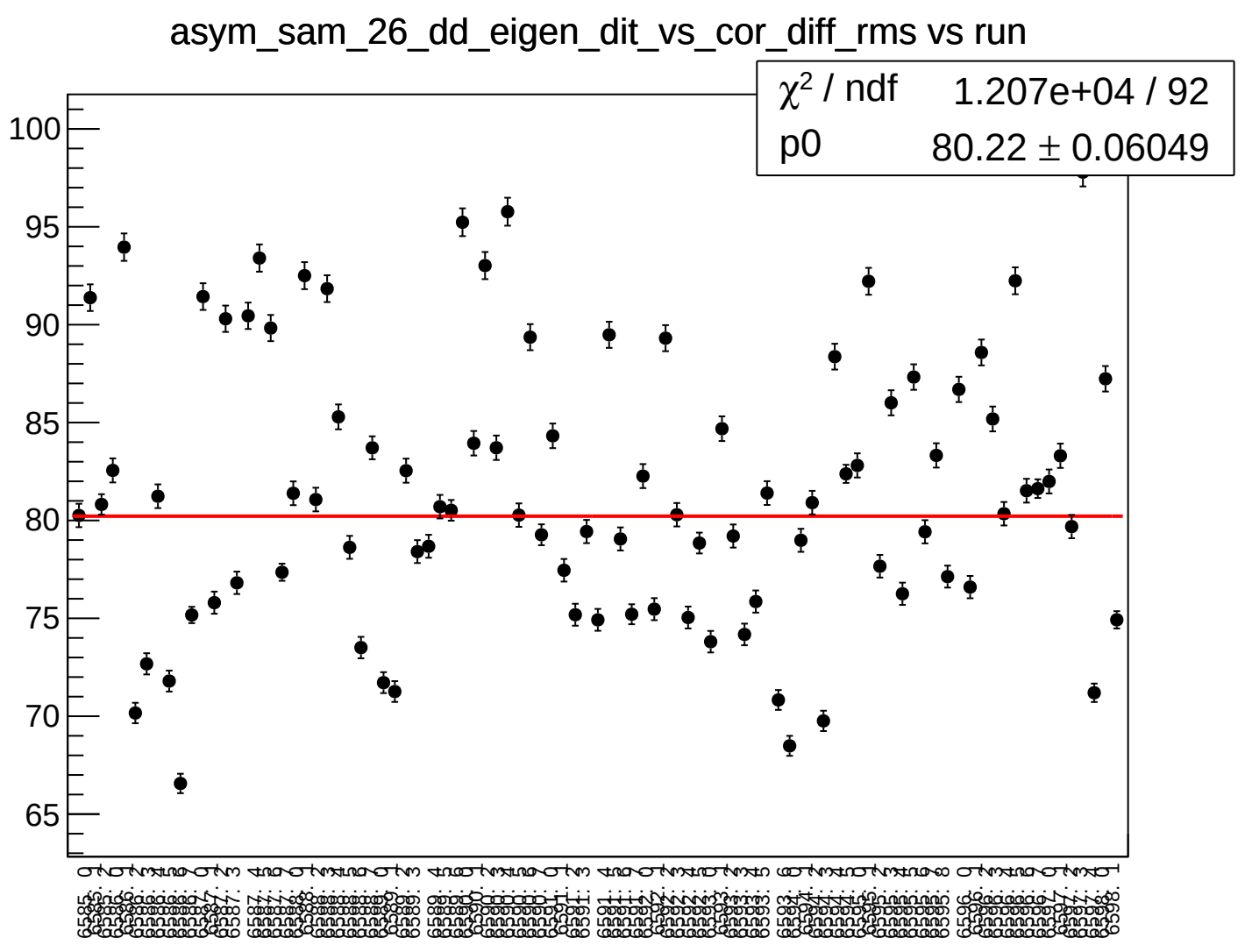

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.207e+04 / 92
p0 80.22 ± 0.06049
100
95
90
85
80
75
70
65


asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.58 / 92
p0 −3.288e−06 ± 4.505e−06
pull
Entries 93
Mean 281.7
Std Dev 0
pull1D
Entries 93
Mean −0.003679
Std Dev 0.9923

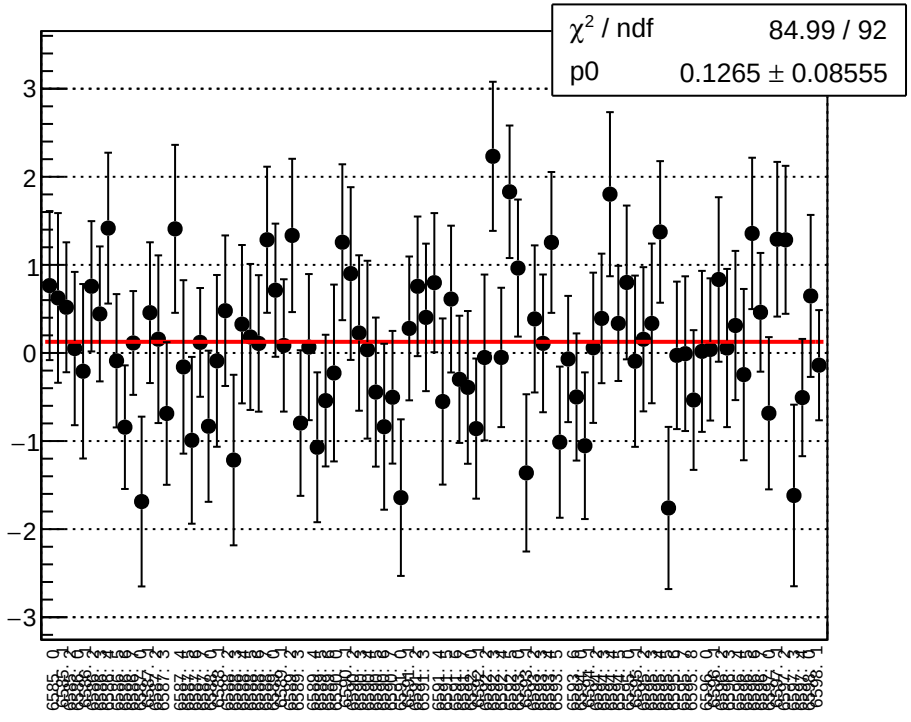

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7782 / 92
p0 0.004229 ± 3.185e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

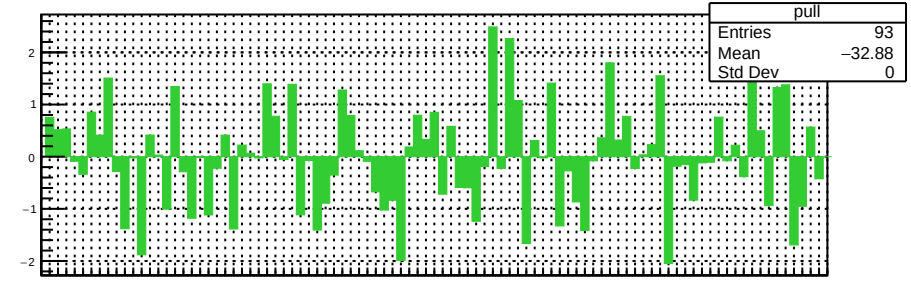

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.99 / 92
p0 0.1265 ± 0.08555
pull
Entries 93
Mean −32.88
Std Dev 0

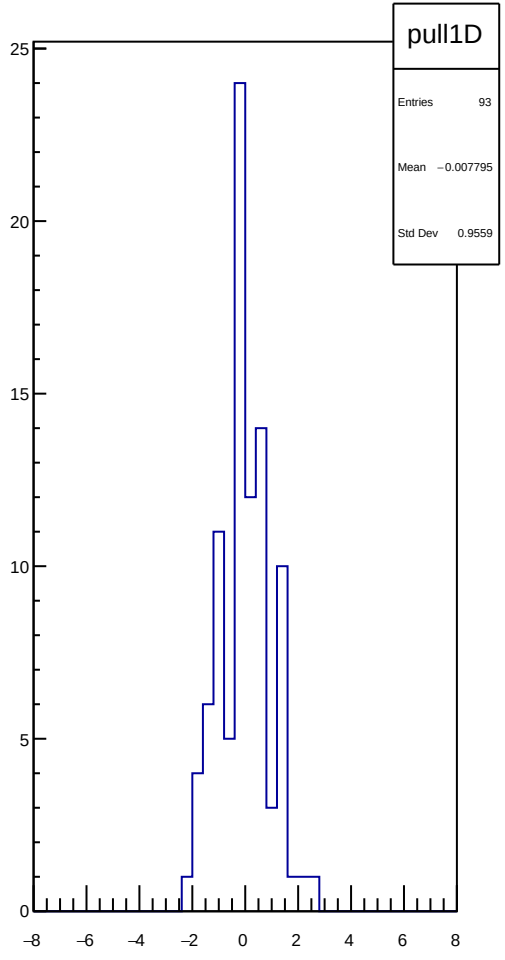

pull1D
Entries 93
Mean −0.007795
Std Dev 0.9559

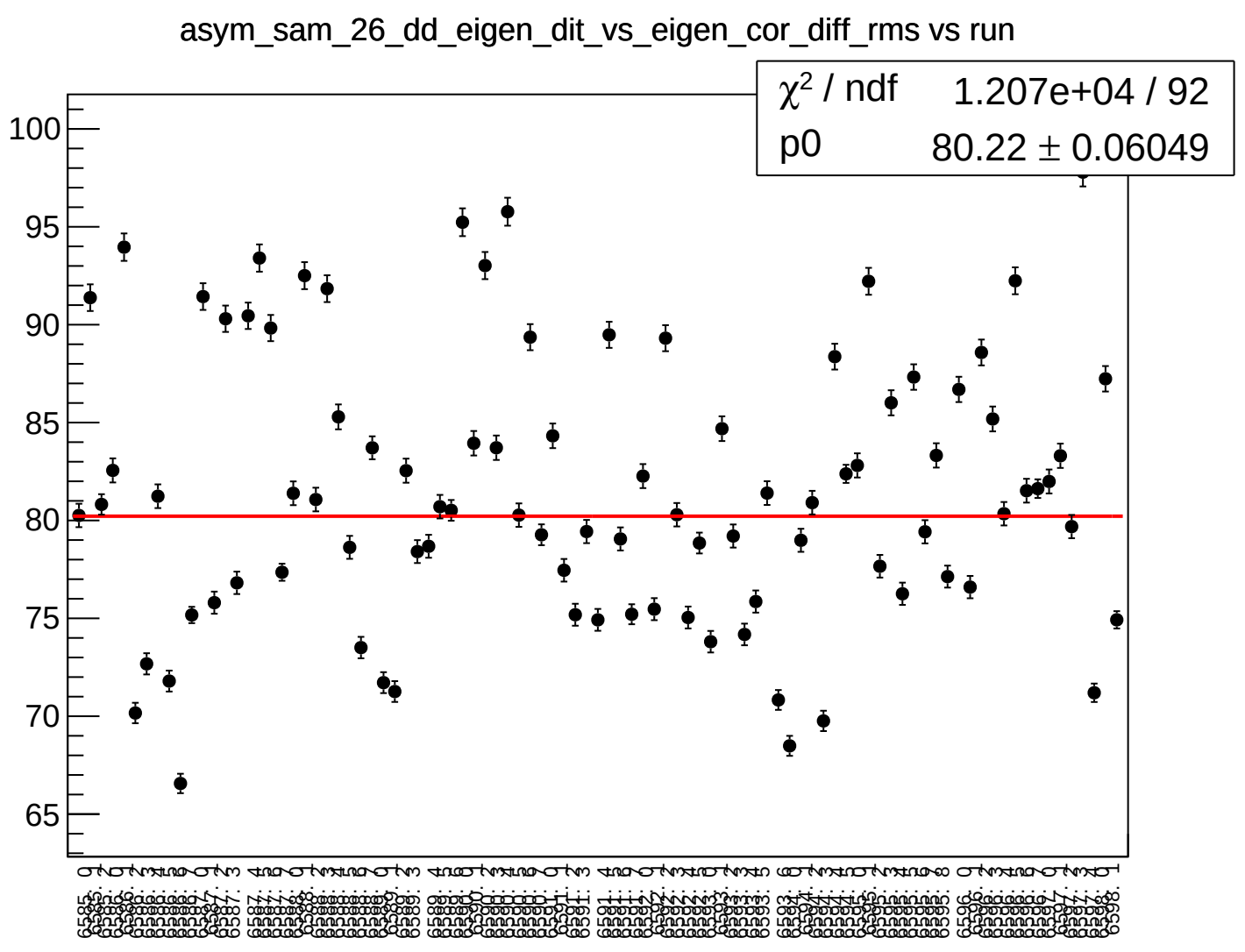

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.207e+04 / 92
p0 80.22 ± 0.06049
100
95
90
85
80
75
70
65

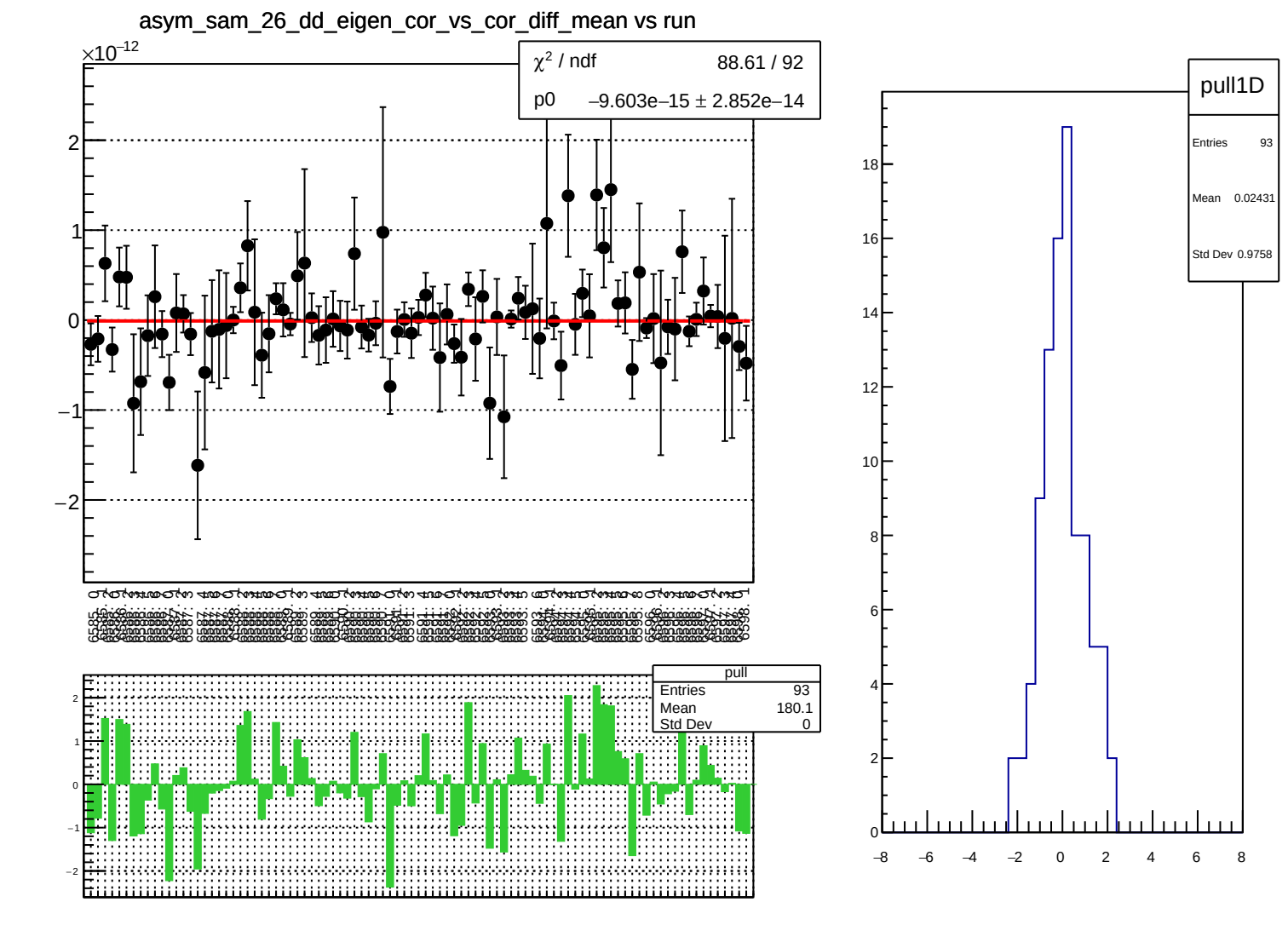
asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

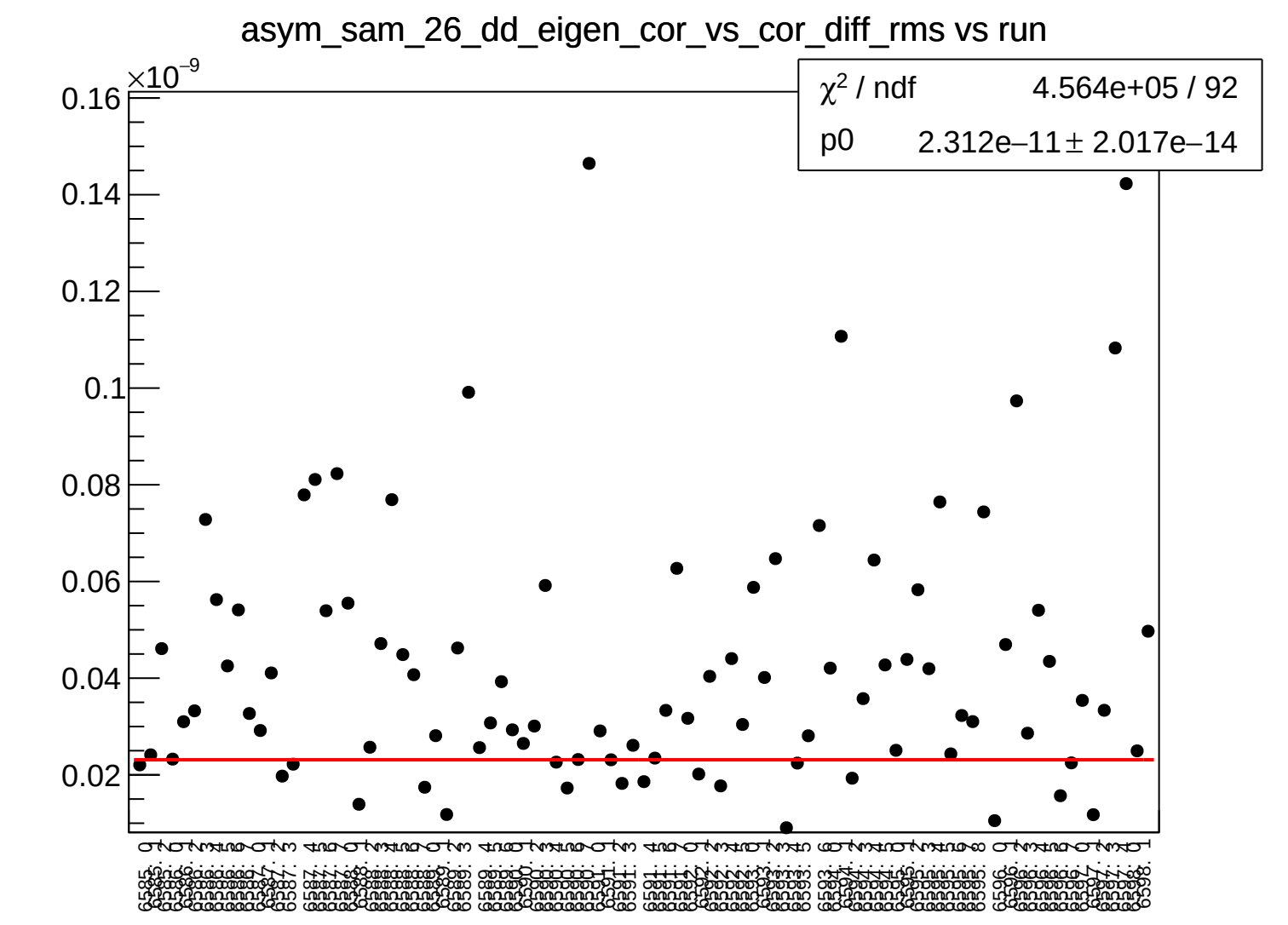


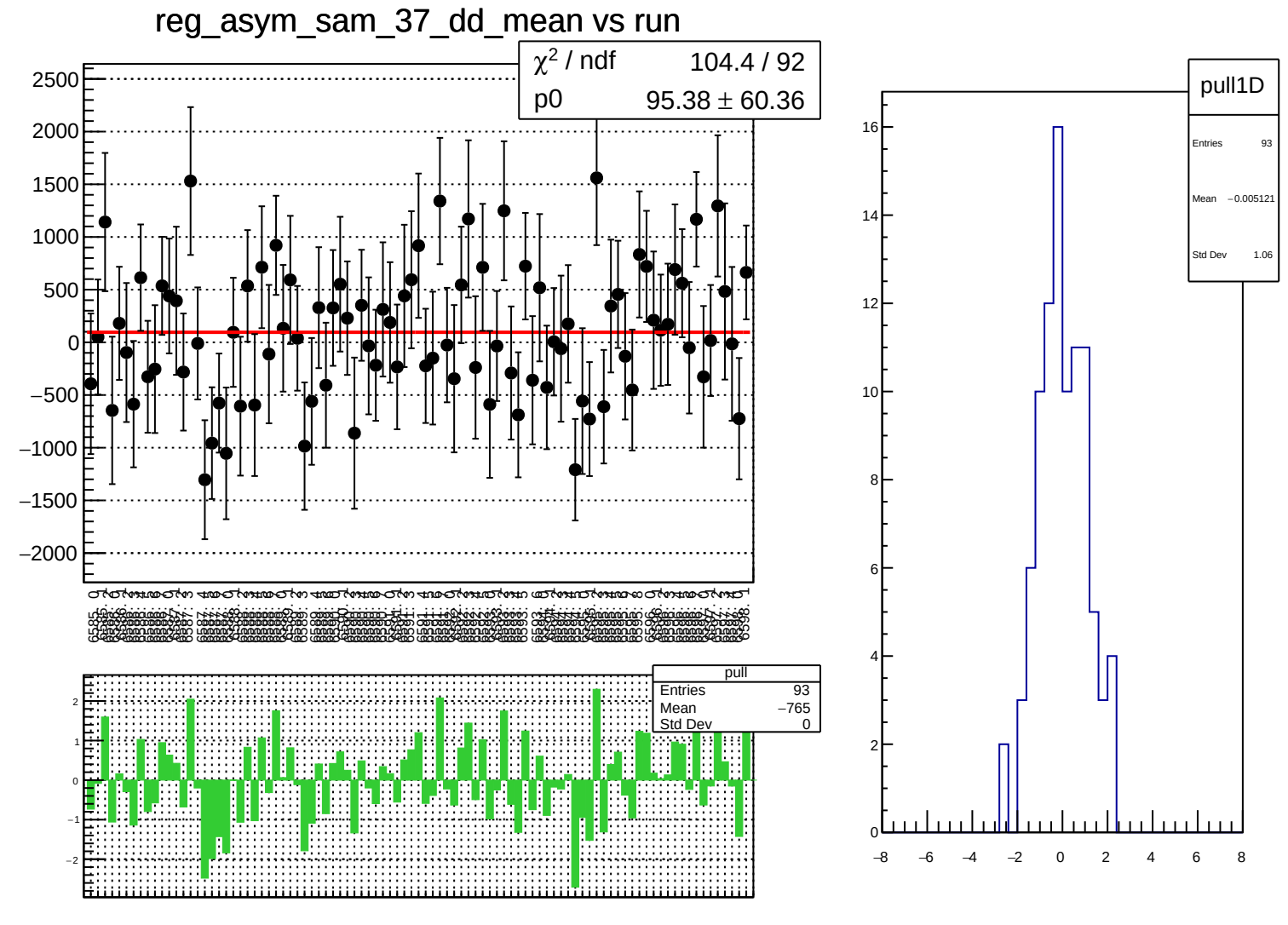


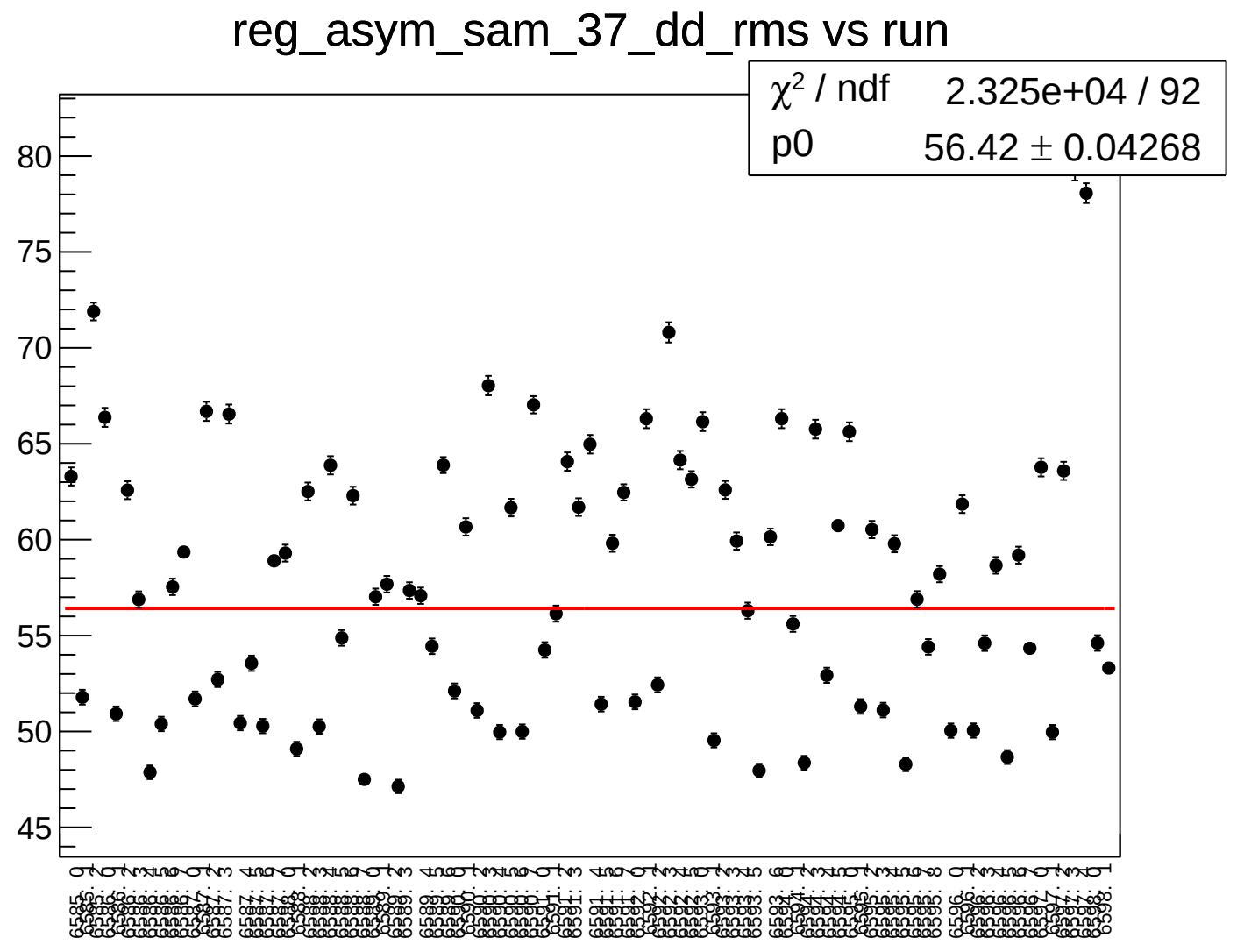


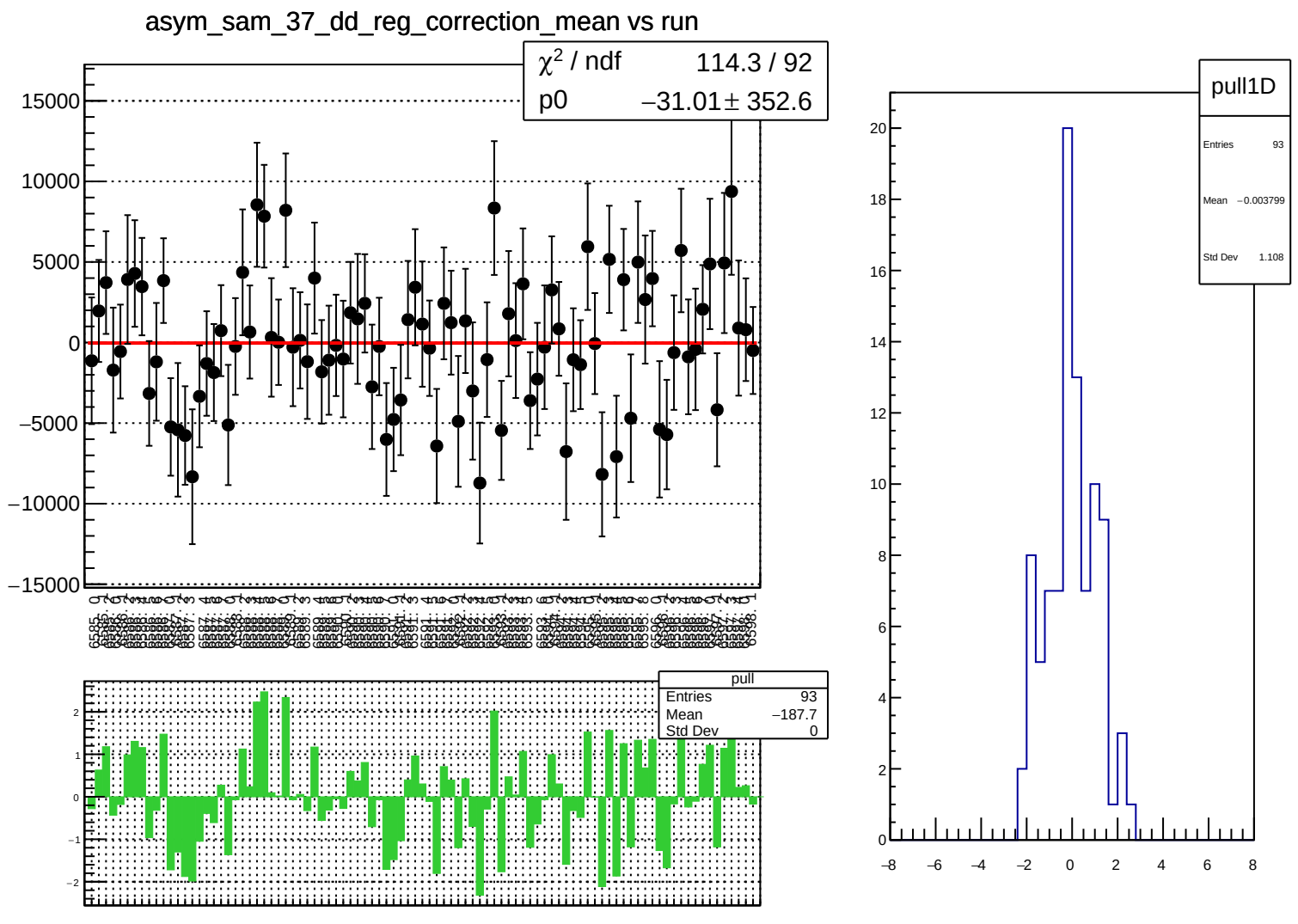

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.207e+04 / 92
p0 80.22 ± 0.06049
100
95
90
85
80
75
70
65

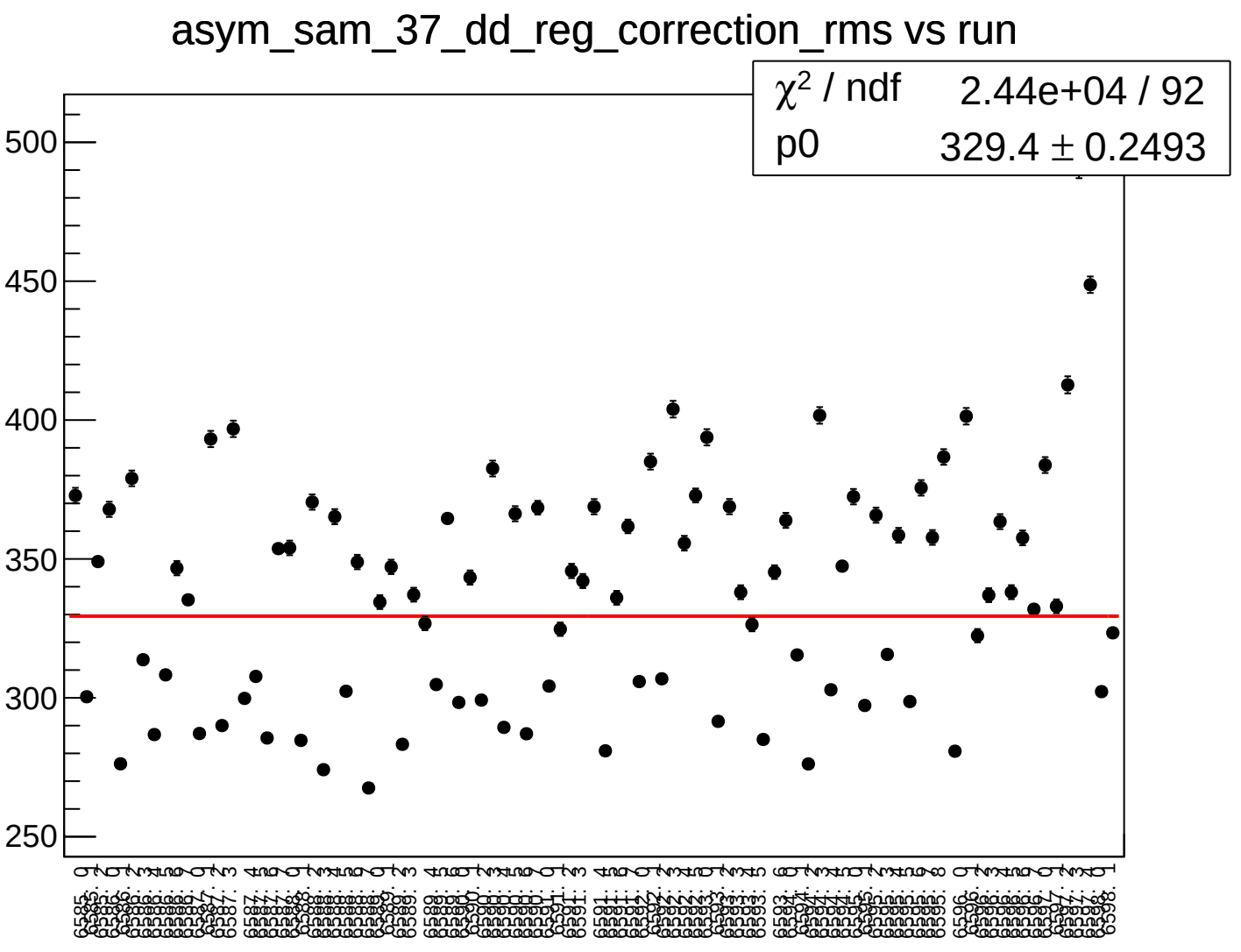

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 88.61 / 92
p0 −9.603e−15 ± 2.852e−14
pull
Entries 93
Mean 180.1
Std Dev 0
pull1D
Entries 93
Mean 0.02431
Std Dev 0.9758

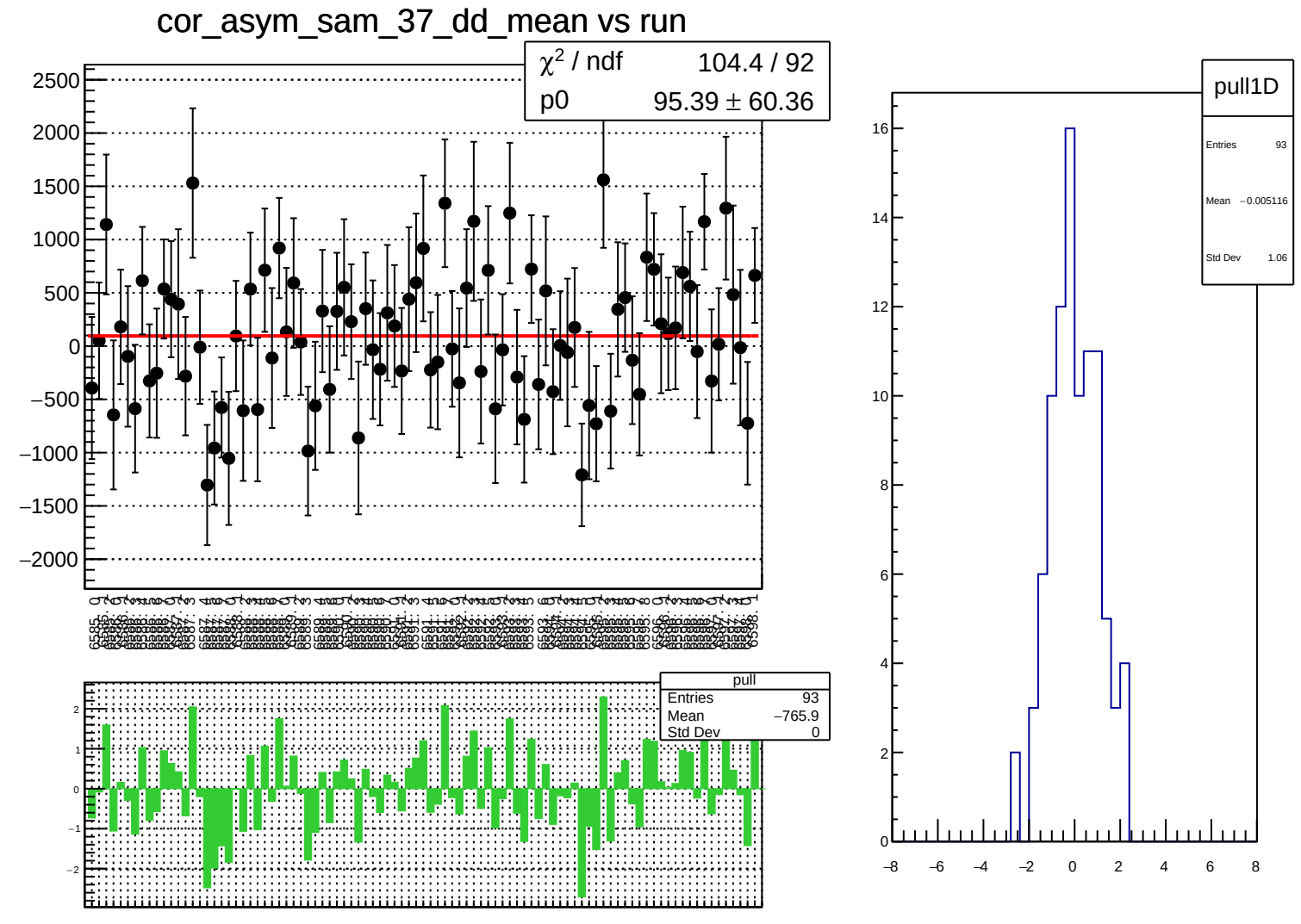

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 4.564e+05 / 92
p0 2.312e−11 ± 2.017e−14

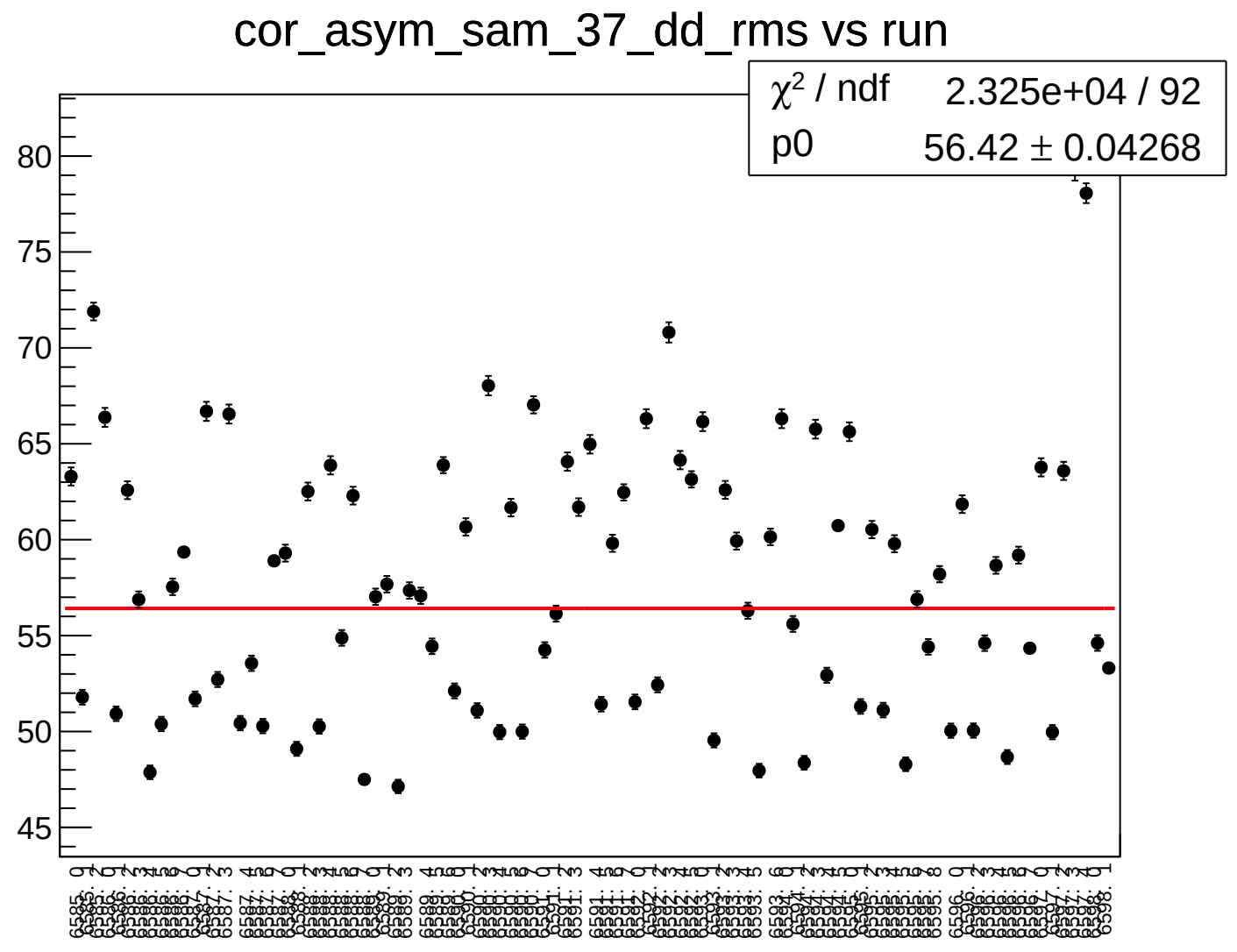

reg_asym_sam_37_dd_mean vs run
χ² / ndf 104.4 / 92
p0 95.38 ± 60.36
pull
Entries 93
Mean −765
Std Dev 0
pull1D
Entries 93
Mean −0.005121
Std Dev 1.06

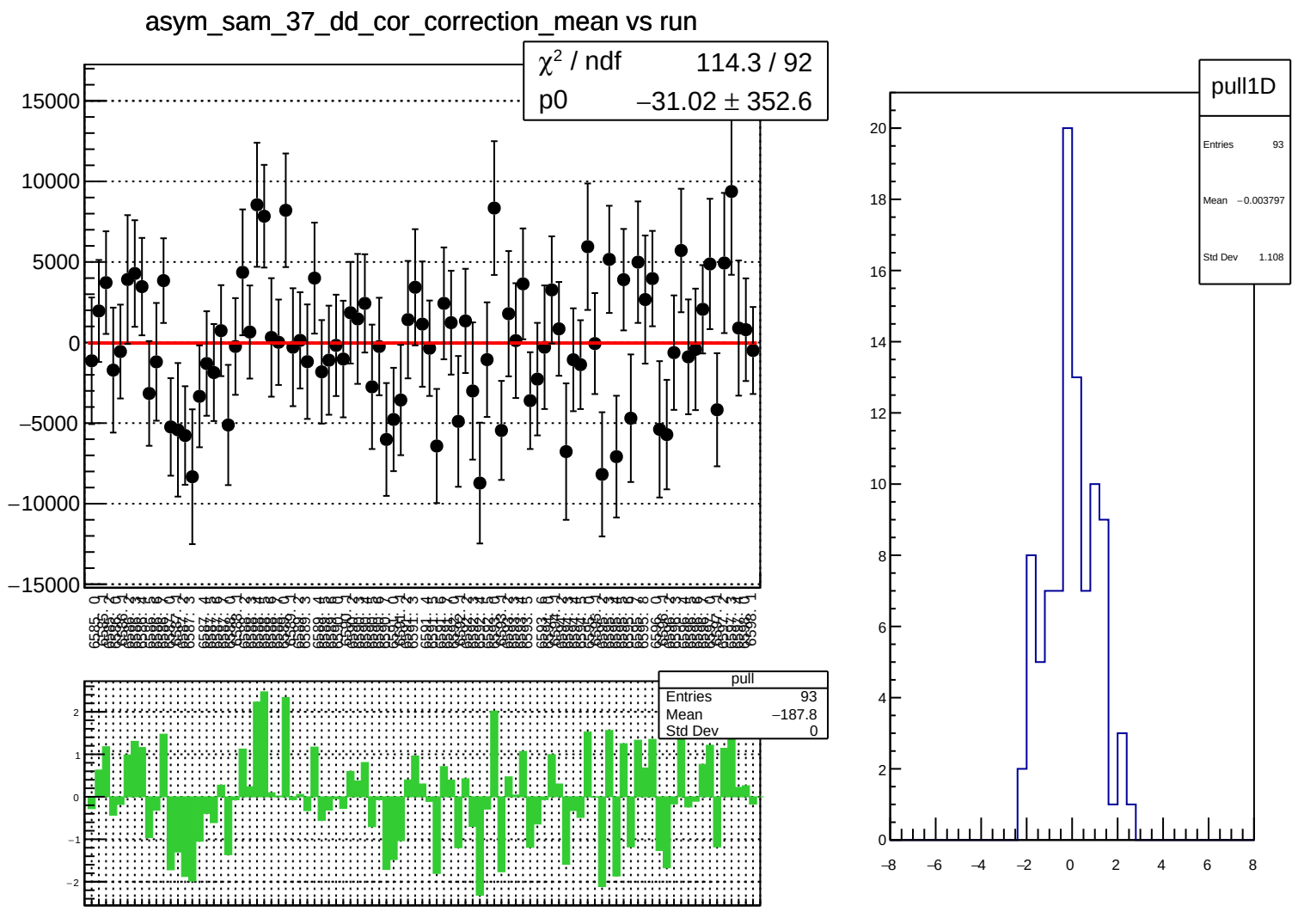

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.325e+04 / 92
p0 56.42 ± 0.04268
80
75
70
65
60
55
50
45

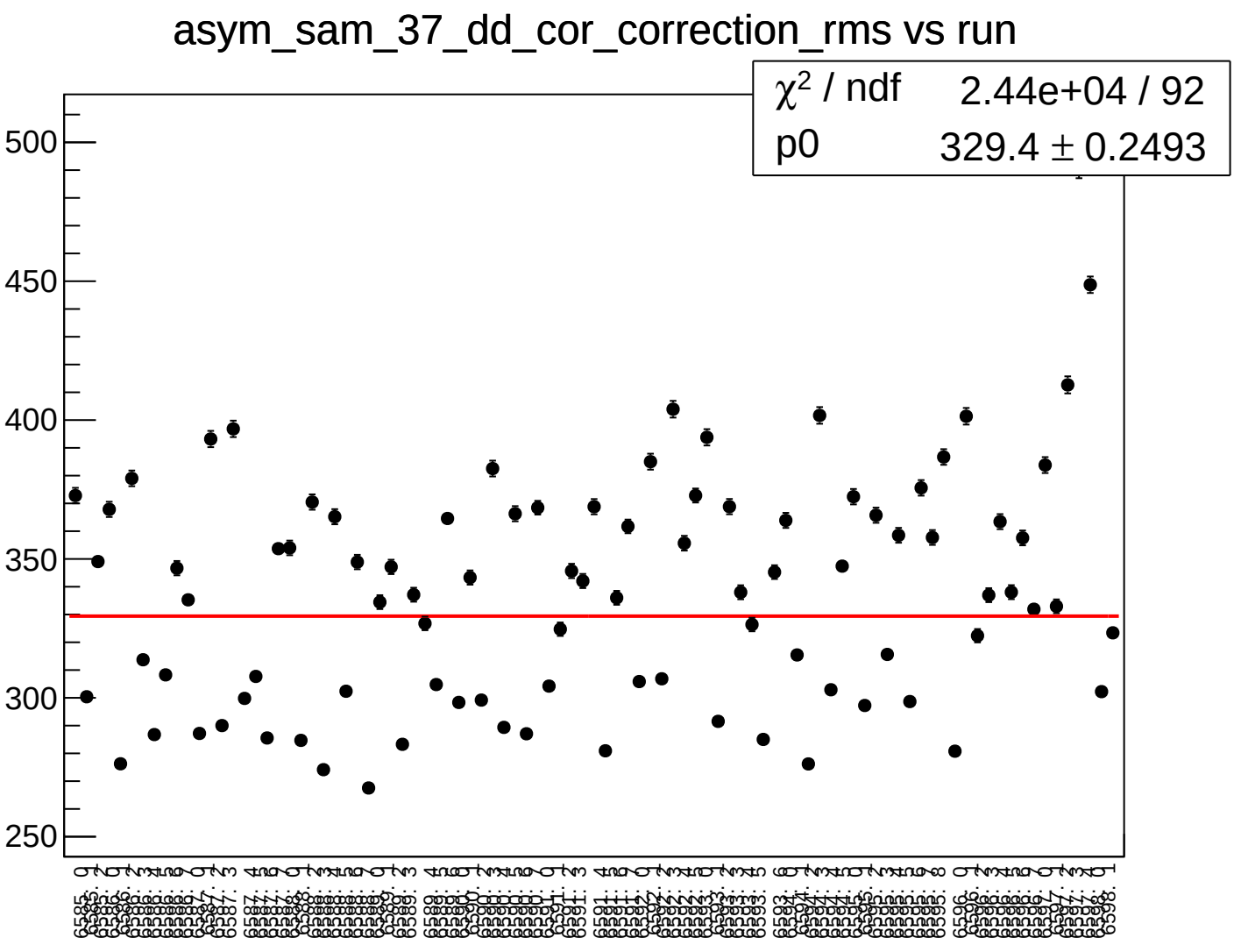

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 114.3 / 92
p0 −31.01 ± 352.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −187.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003799
Std Dev 1.108
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

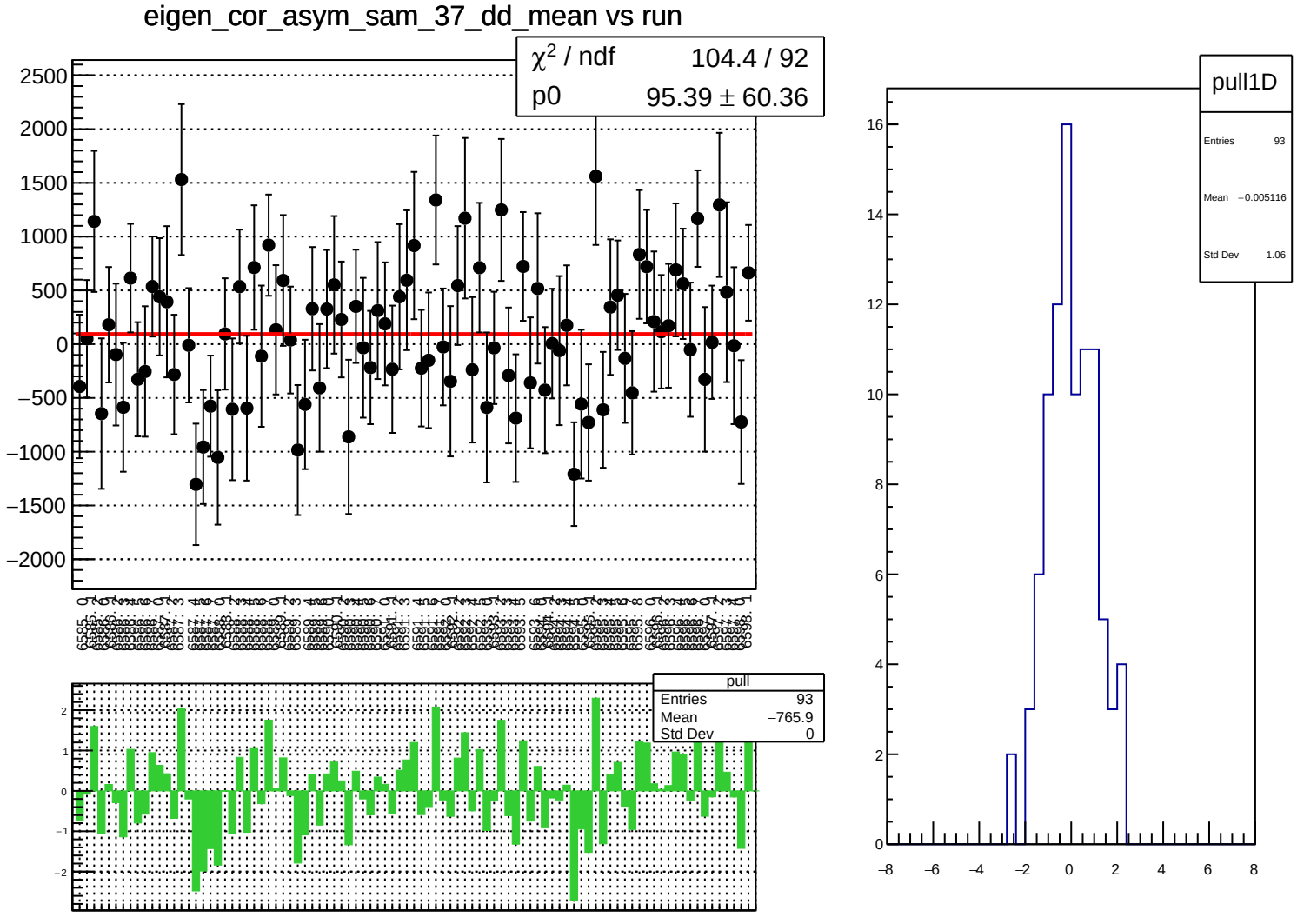

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2.44e+04 / 92
p0 329.4 ± 0.2493
500
450
400
350
300
250

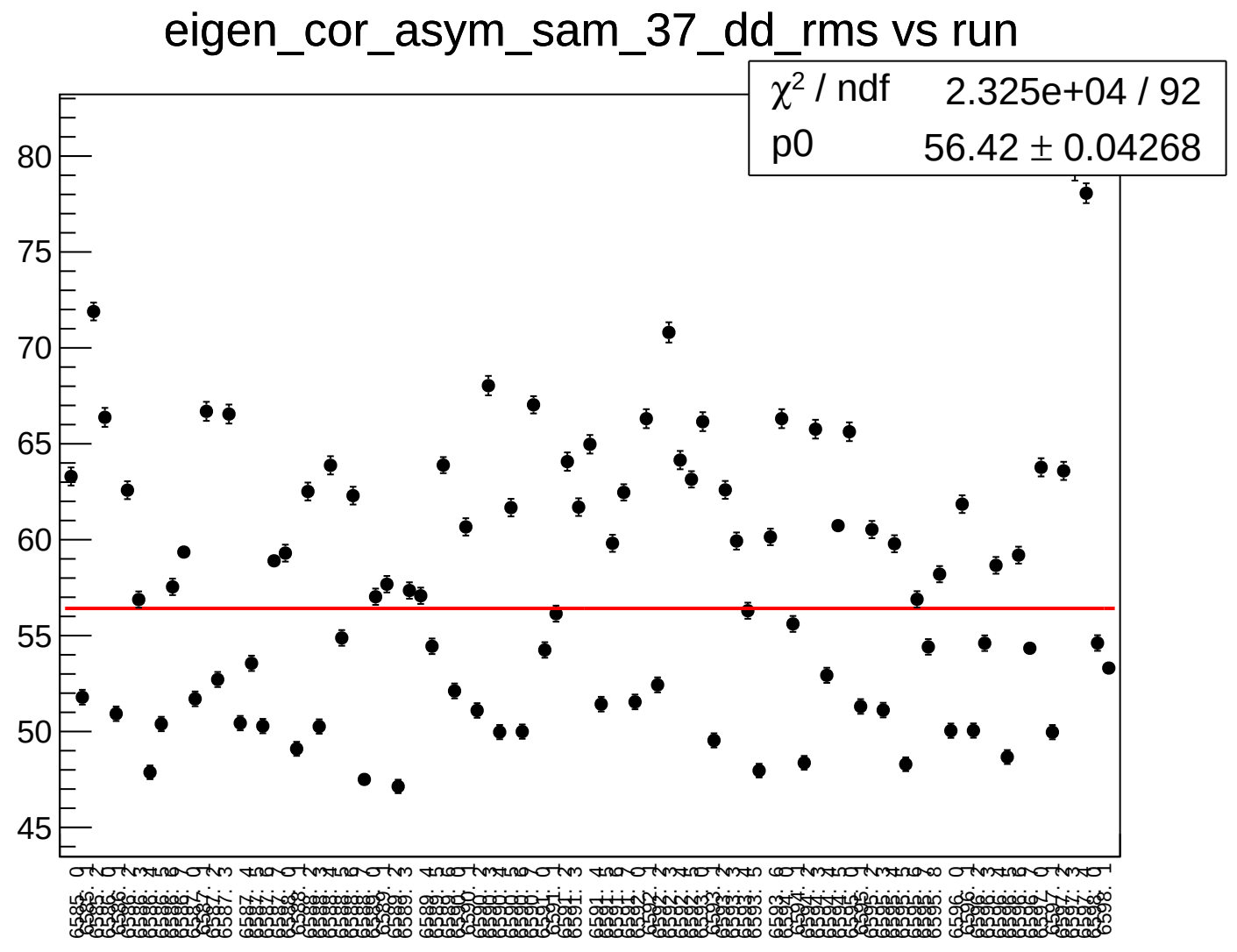

cor_asym_sam_37_dd_mean vs run
χ² / ndf 104.4 / 92
p0 95.39 ± 60.36
pull
Entries 93
Mean −765.9
Std Dev 0
pull1D
Entries 93
Mean −0.005116
Std Dev 1.06

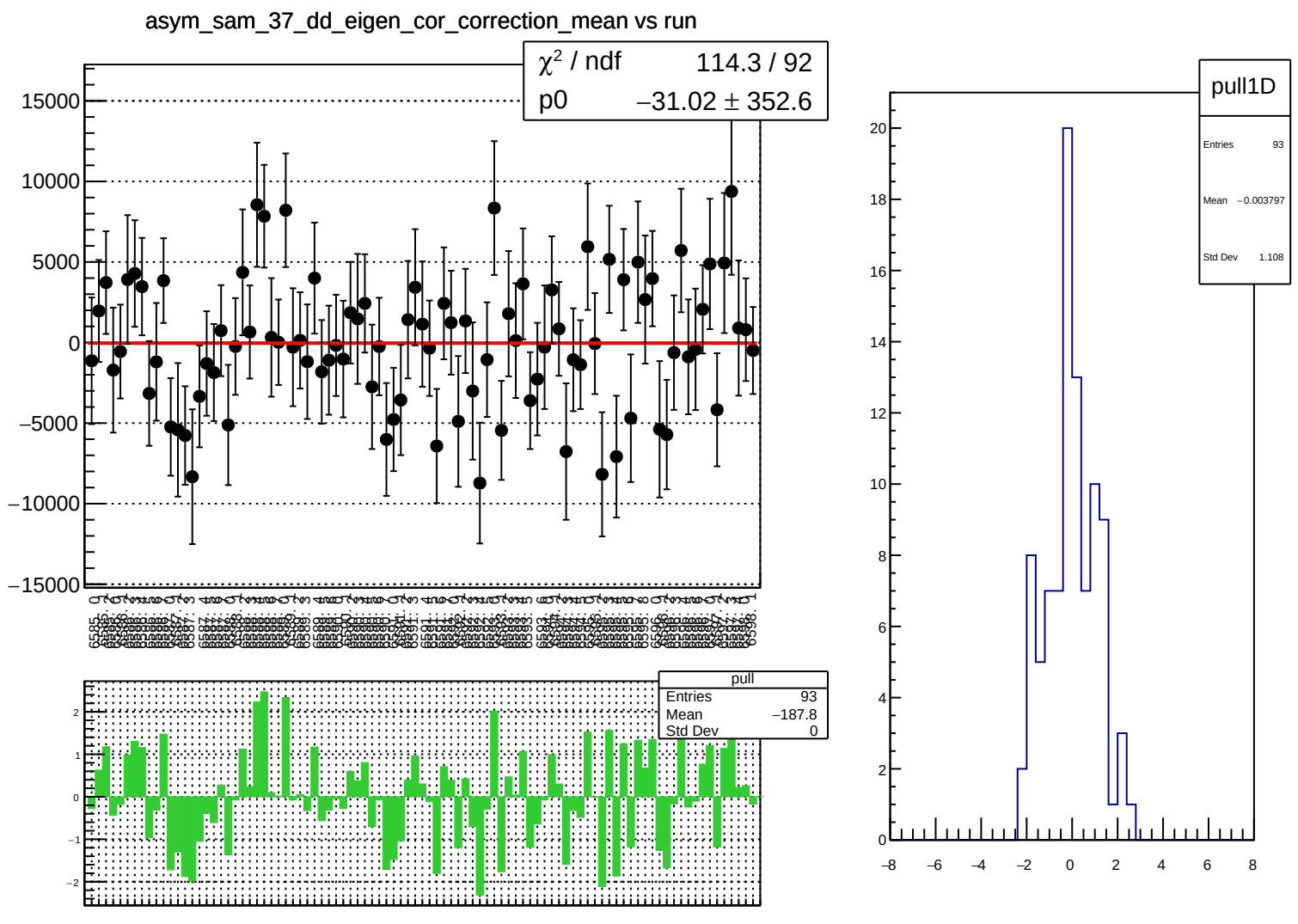

cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.325e+04 / 92
p0 56.42 ± 0.04268
80
75
70
65
60
55
50
45

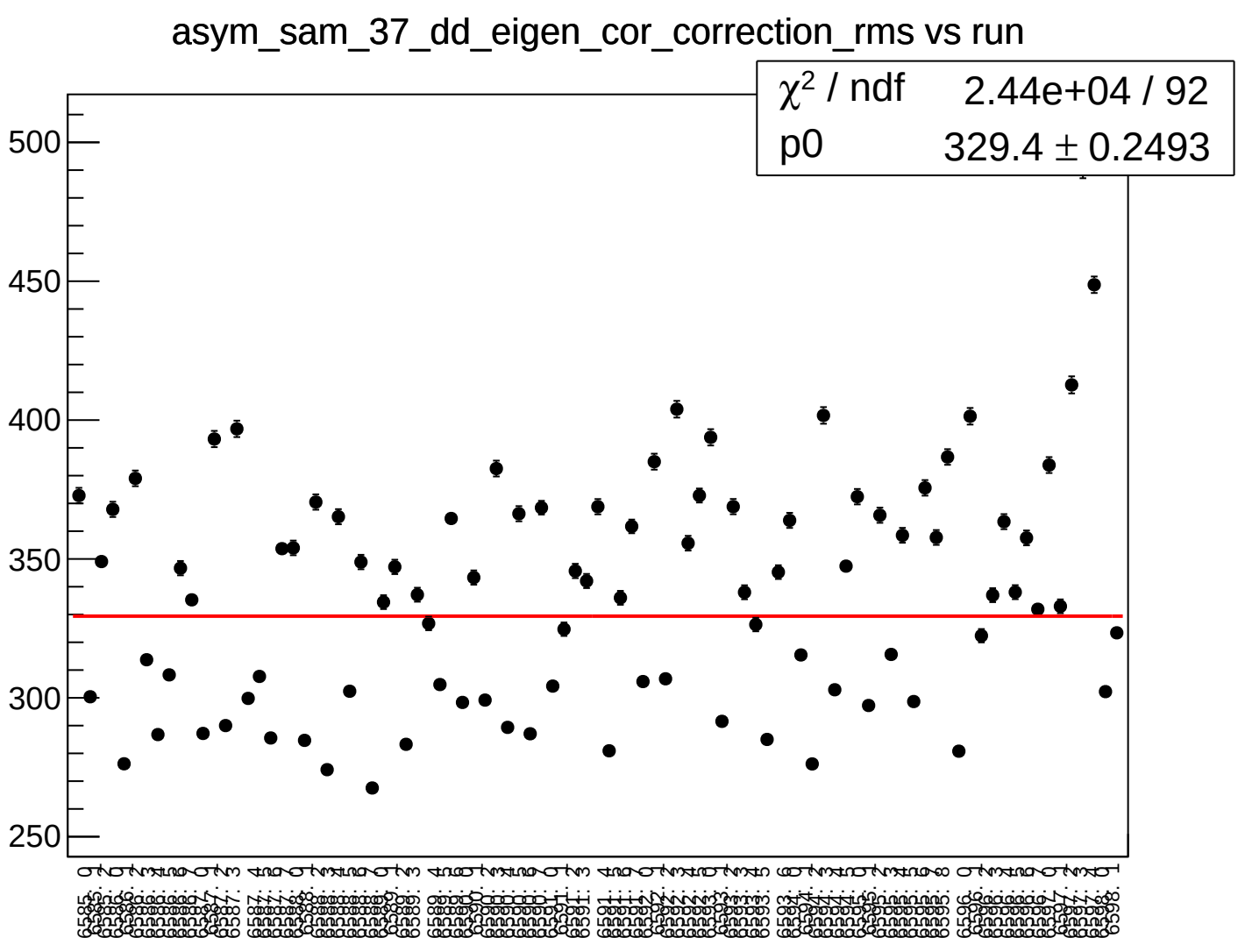

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 114.3 / 92
p0 −31.02 ± 352.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −187.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003797
Std Dev 1.108
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

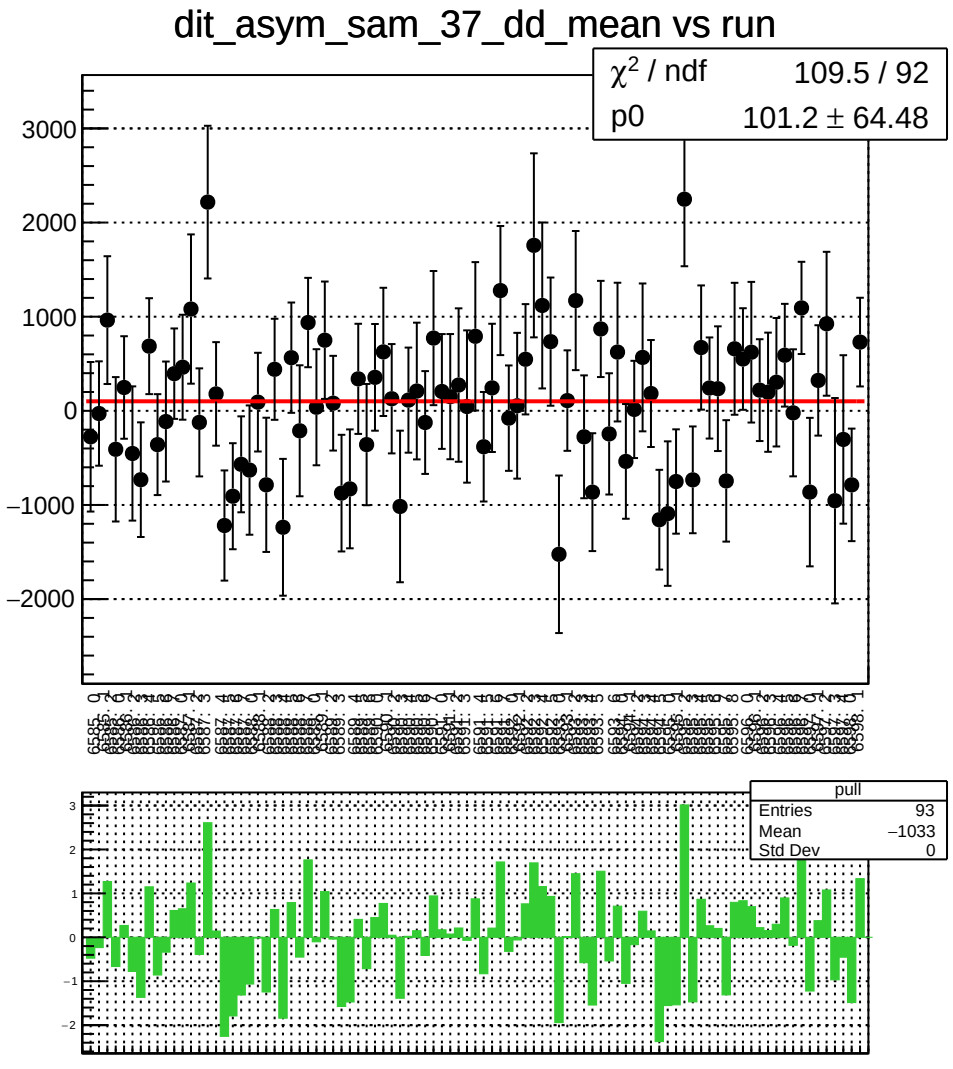

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2.44e+04 / 92
p0 329.4 ± 0.2493
500
450
400
350
300
250

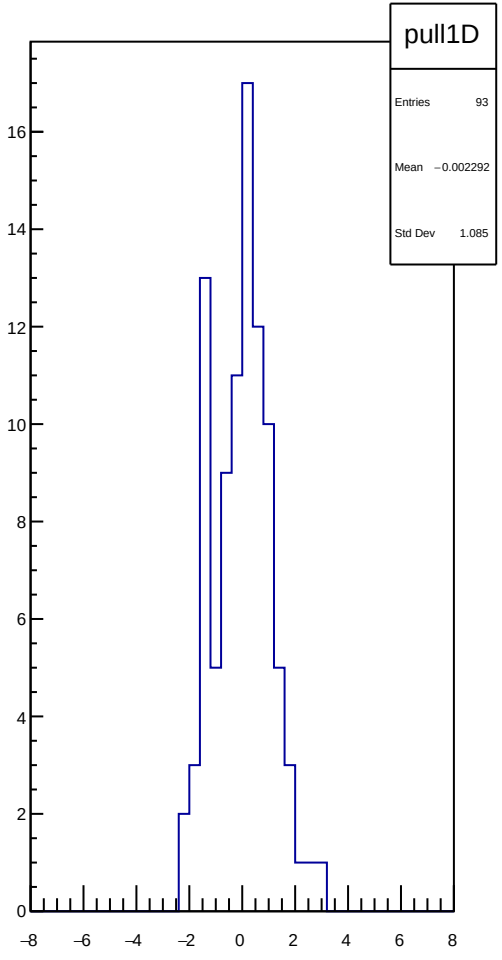

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 104.4 / 92
p0 95.39 ± 60.36
pull
Entries 93
Mean −765.9
Std Dev 0
pull1D
Entries 93
Mean −0.005116
Std Dev 1.06

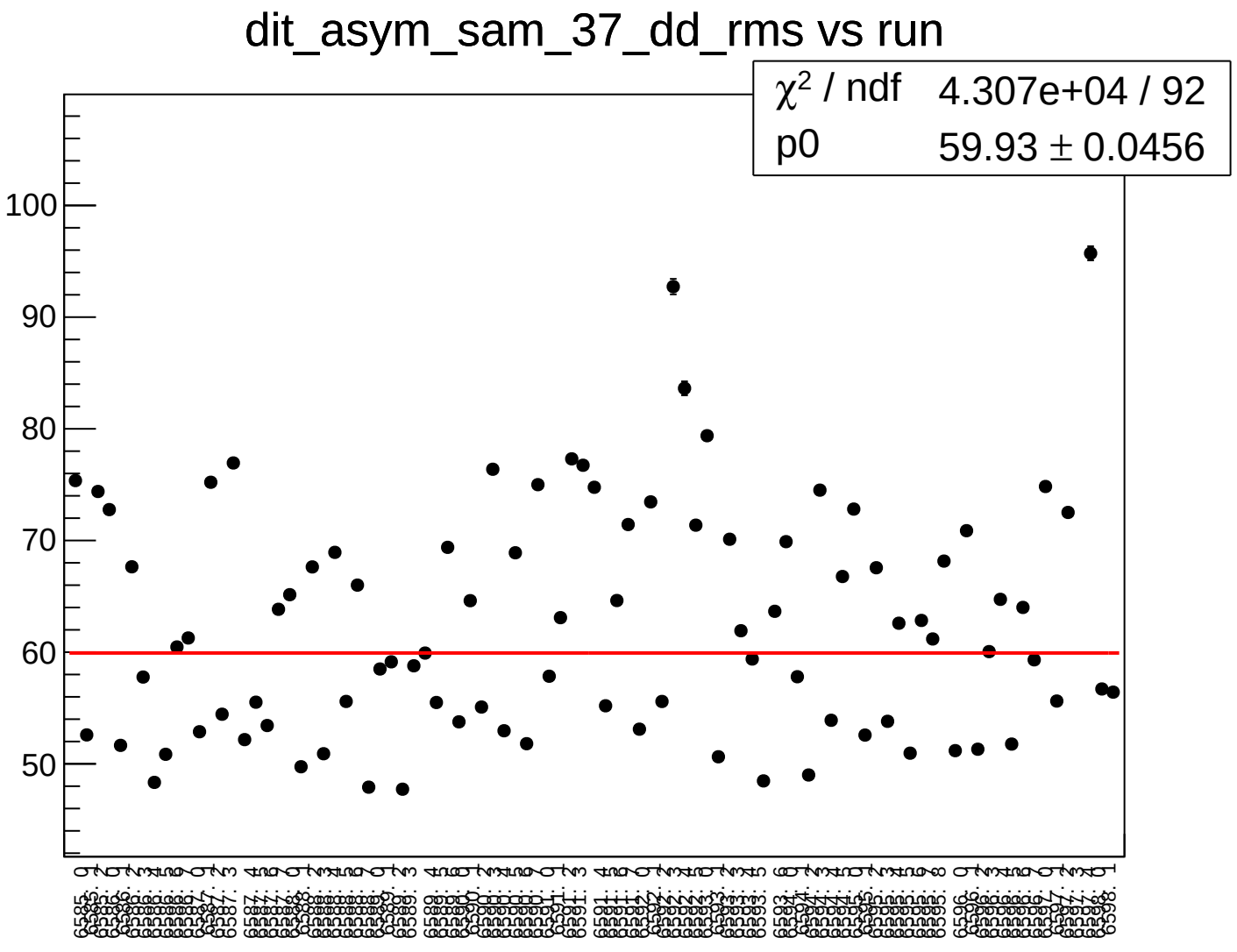

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.325e+04 / 92
p0 56.42 ± 0.04268
80
75
70
65
60
55
50
45

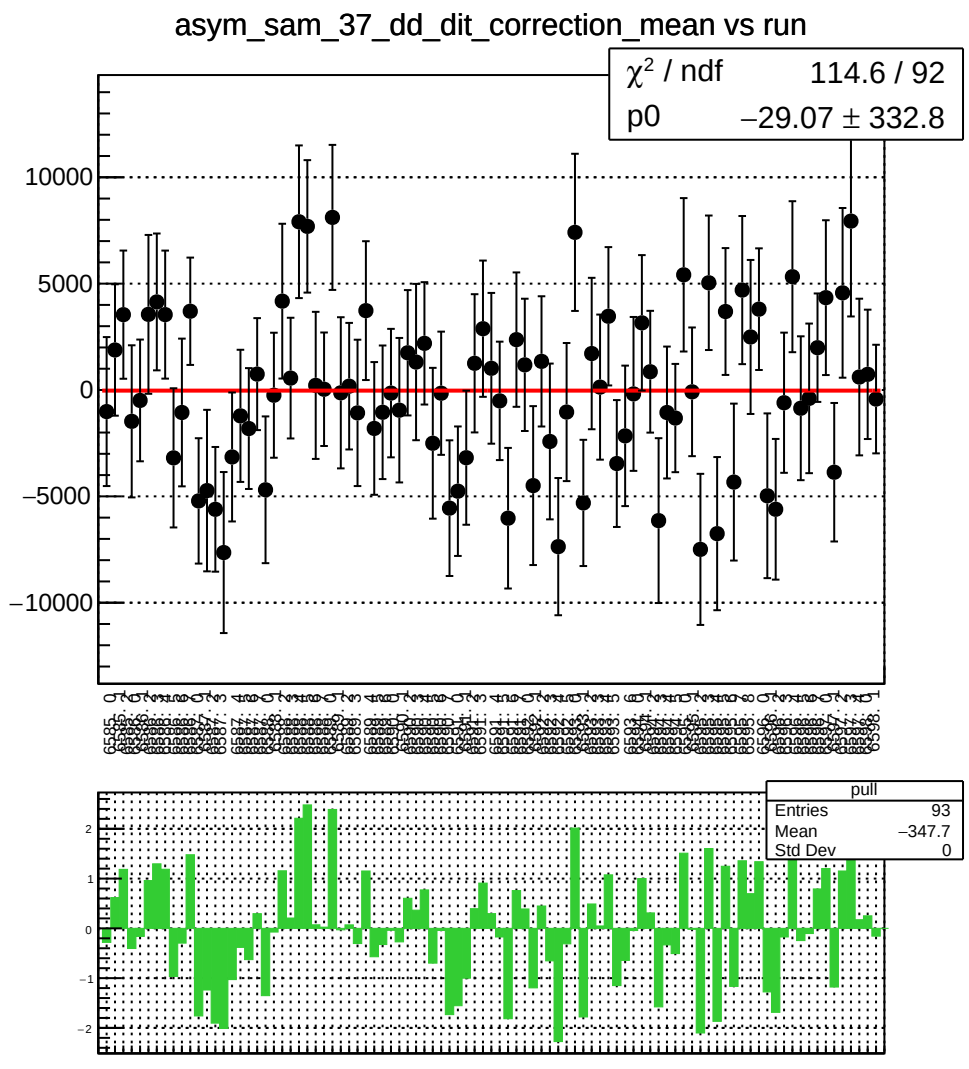

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 114.3 / 92
p0 −31.02 ± 352.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −187.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003797
Std Dev 1.108
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

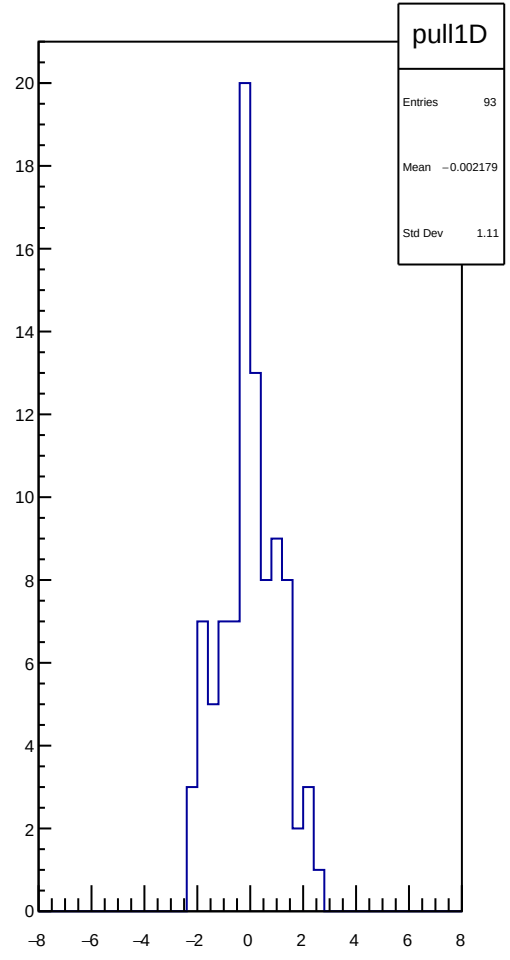

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.44e+04 / 92
p0 329.4 ± 0.2493
500
450
400
350
300
250

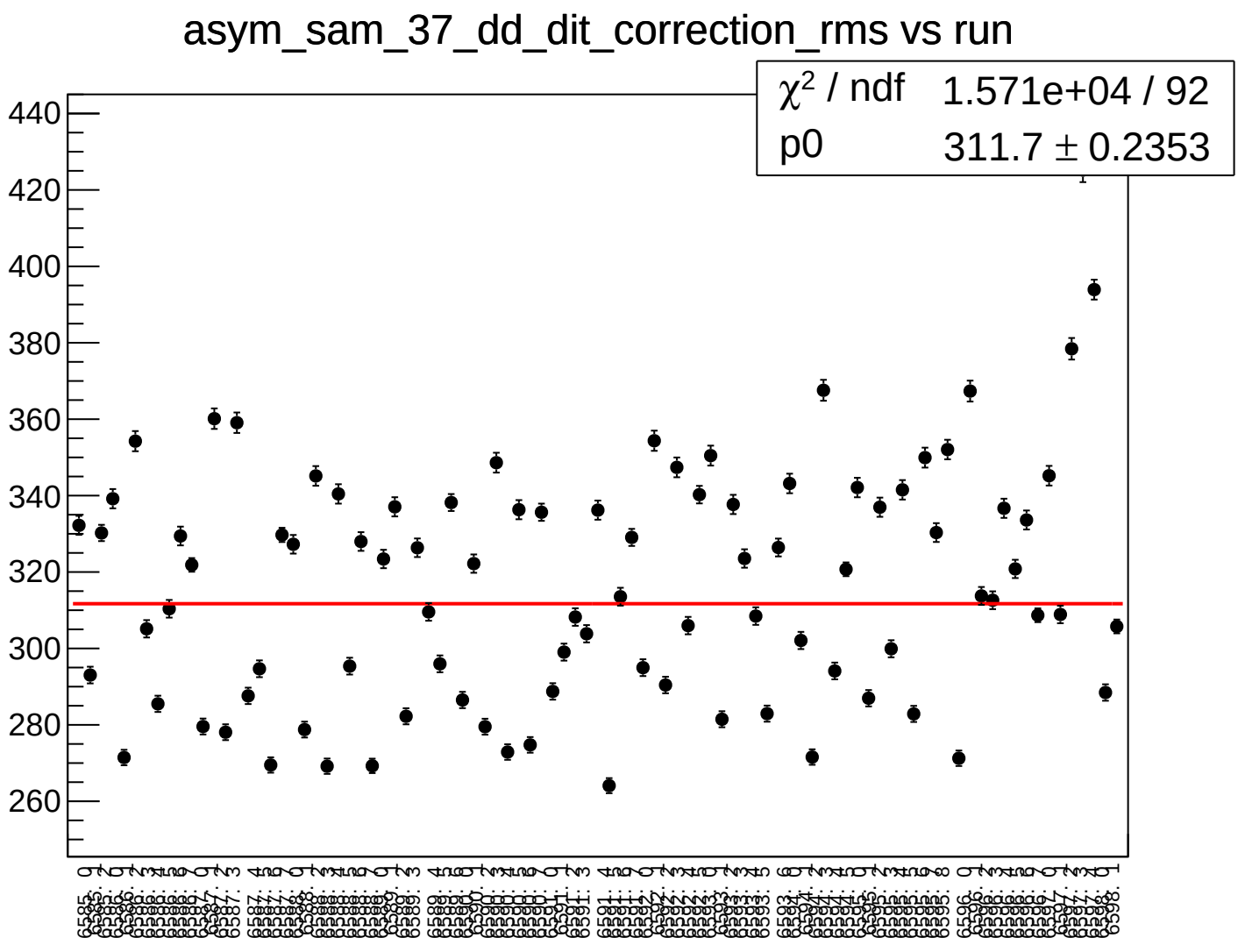

dit_asym_sam_37_dd_mean vs run
χ² / ndf 109.5 / 92
p0 101.2 ± 64.48
pull
Entries 93
Mean −1033
Std Dev 0

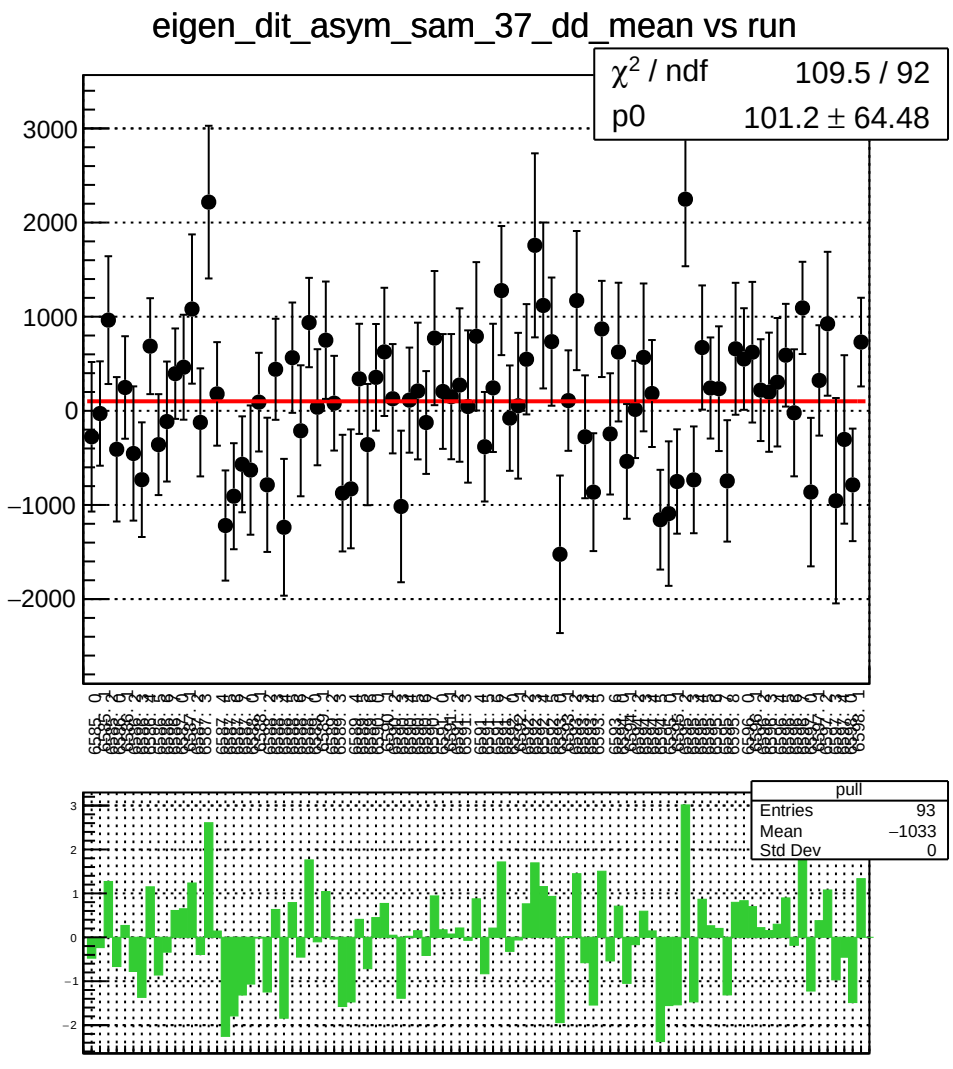

pull1D
Entries 93
Mean −0.002292
Std Dev 1.085

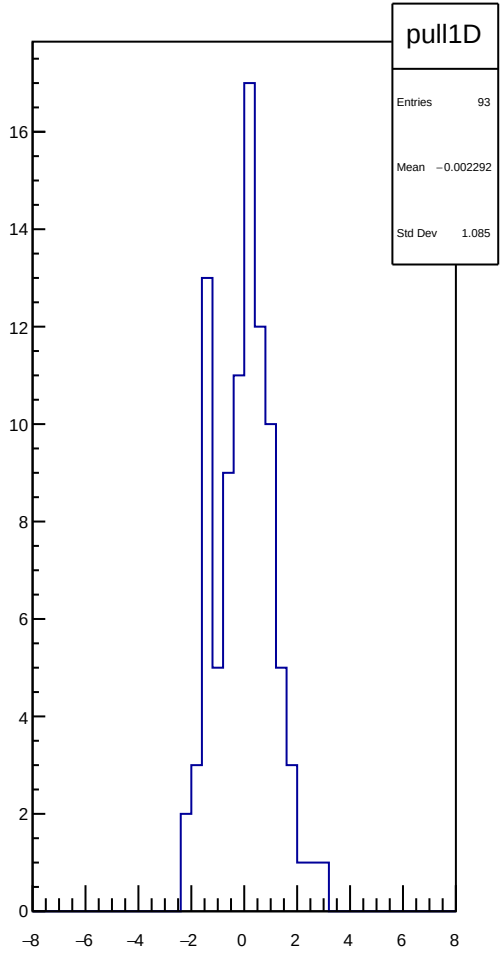

dit_asym_sam_37_dd_rms vs run
χ² / ndf 4.307e+04 / 92
p0 59.93 ± 0.0456
100
90
80
70
60
50

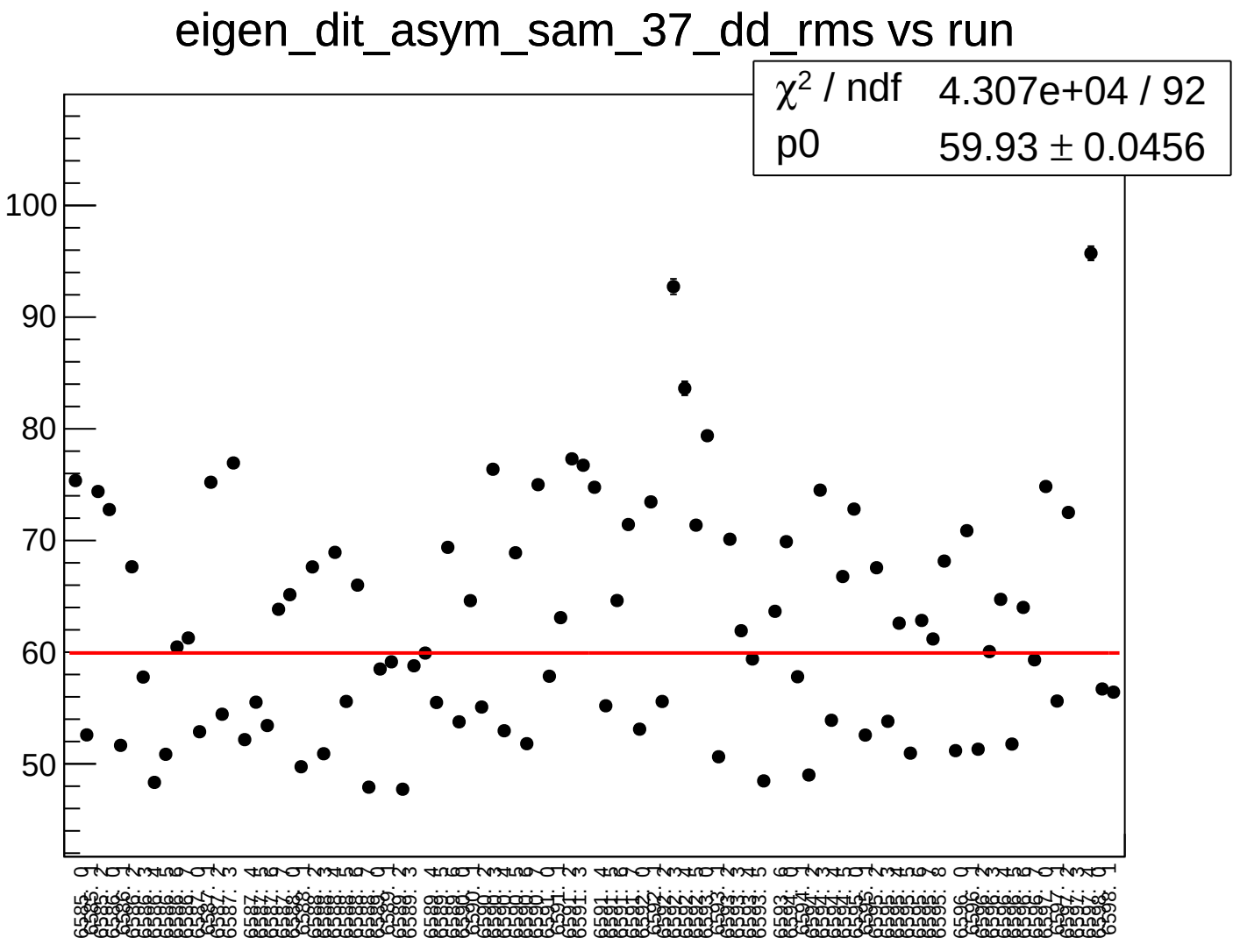

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 114.6 / 92
p0 −29.07 ± 332.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −347.7
Std Dev 0
2
1
0
−1
−2

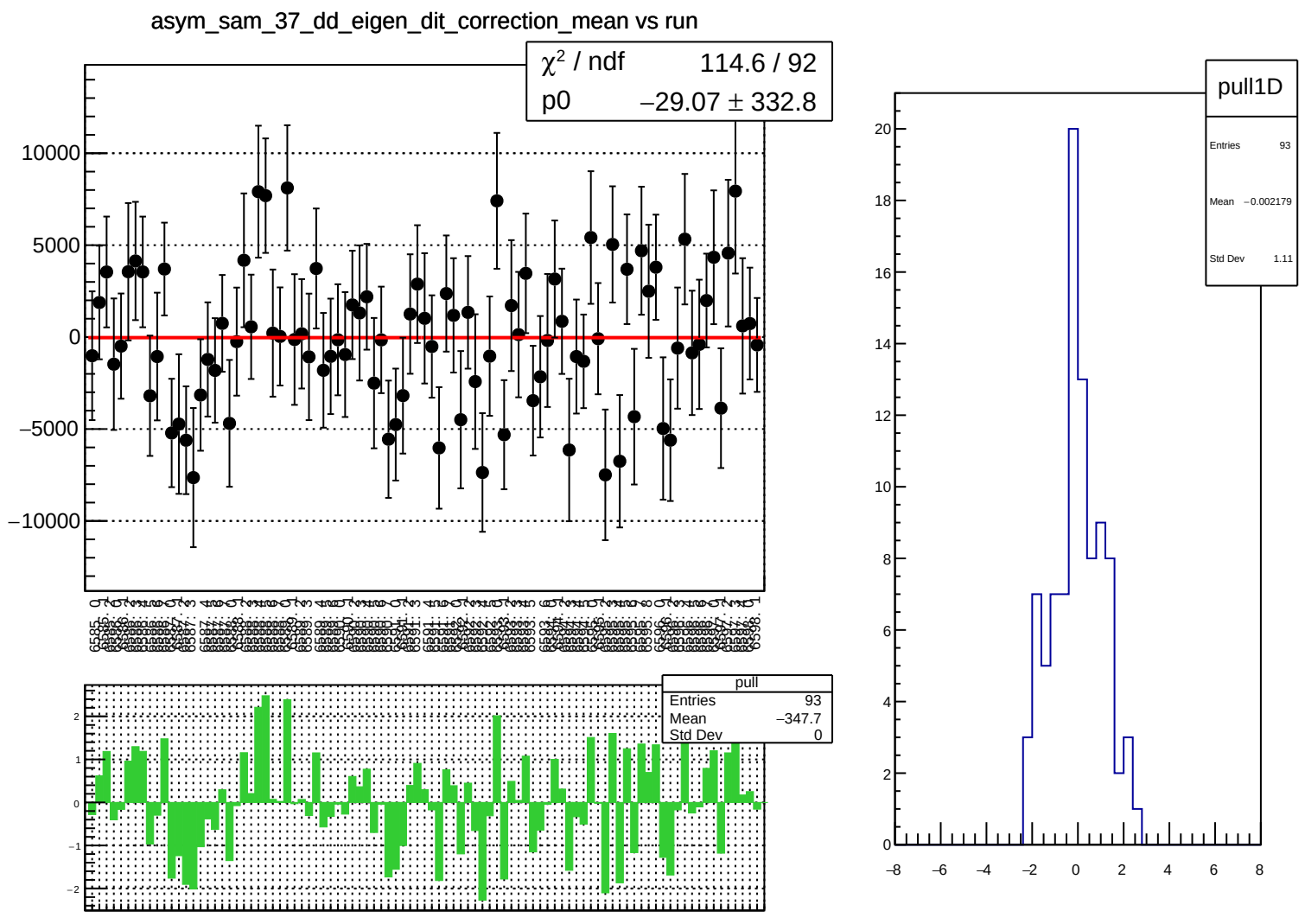

pull1D
Entries 93
Mean −0.002179
Std Dev 1.11
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

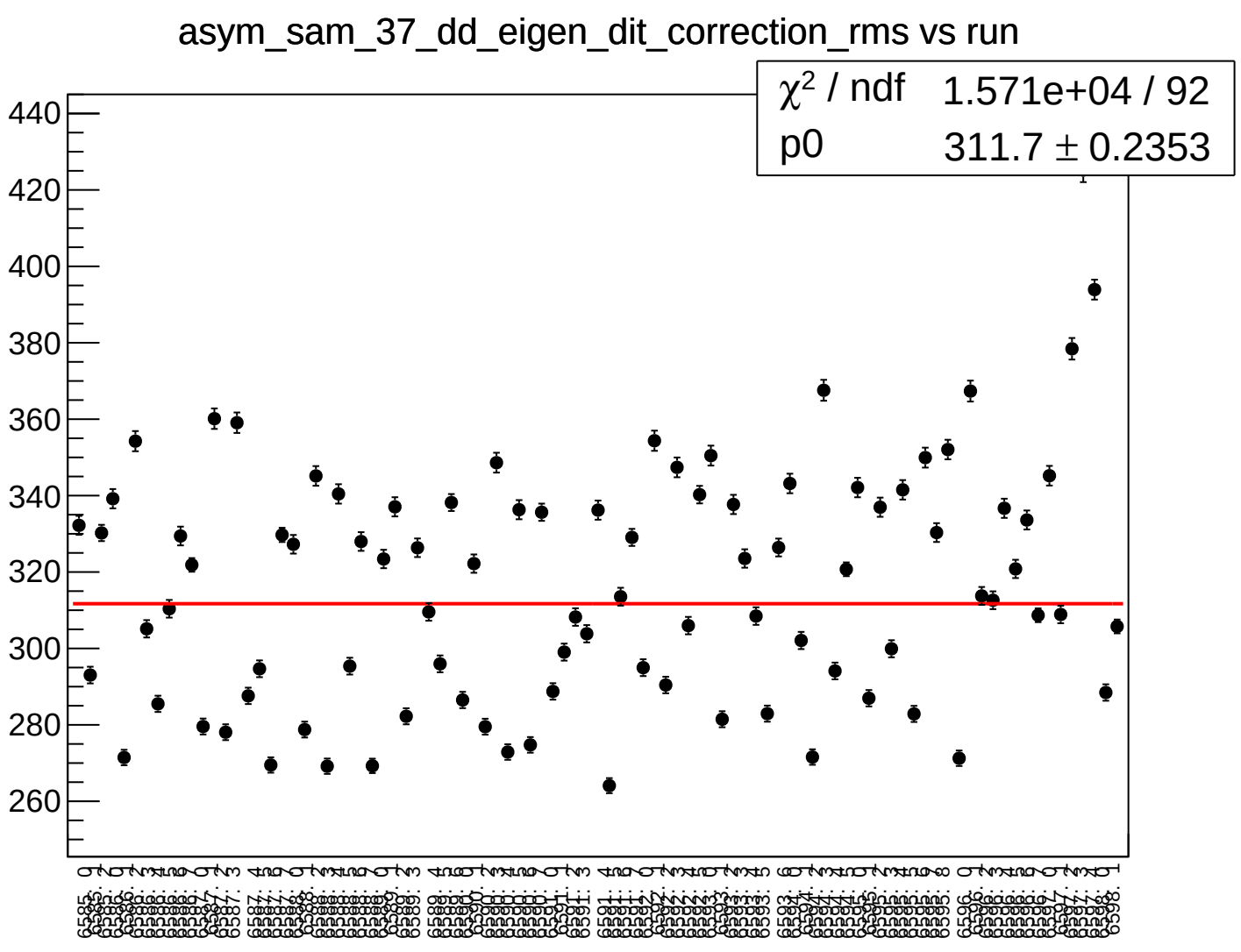

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.571e+04 / 92
p0 311.7 ± 0.2353
440
420
400
380
360
340
320
300
280
260

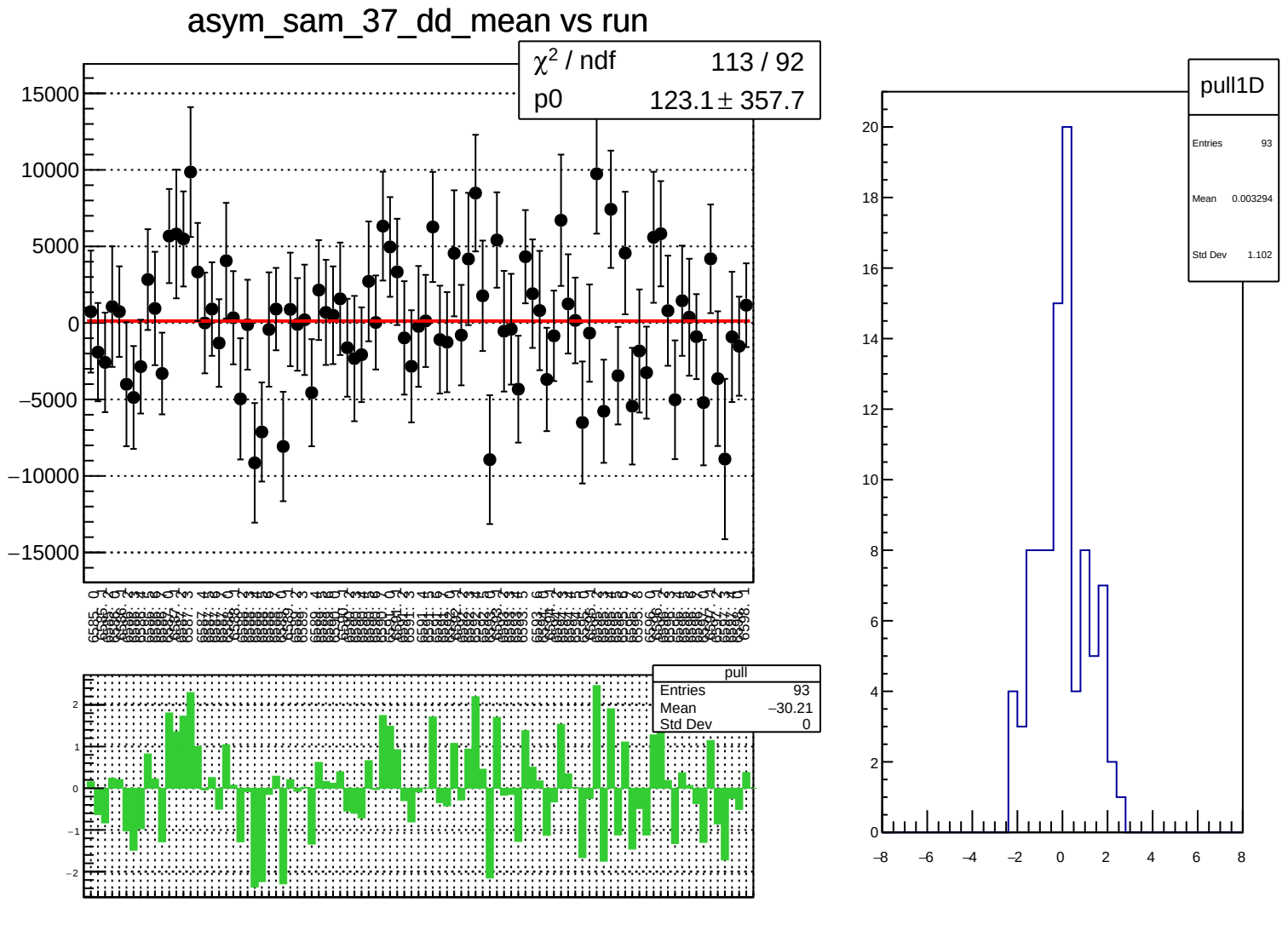

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 109.5 / 92
p0 101.2 ± 64.48
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −1033
Std Dev 0
3
2
1
0
−1
−2

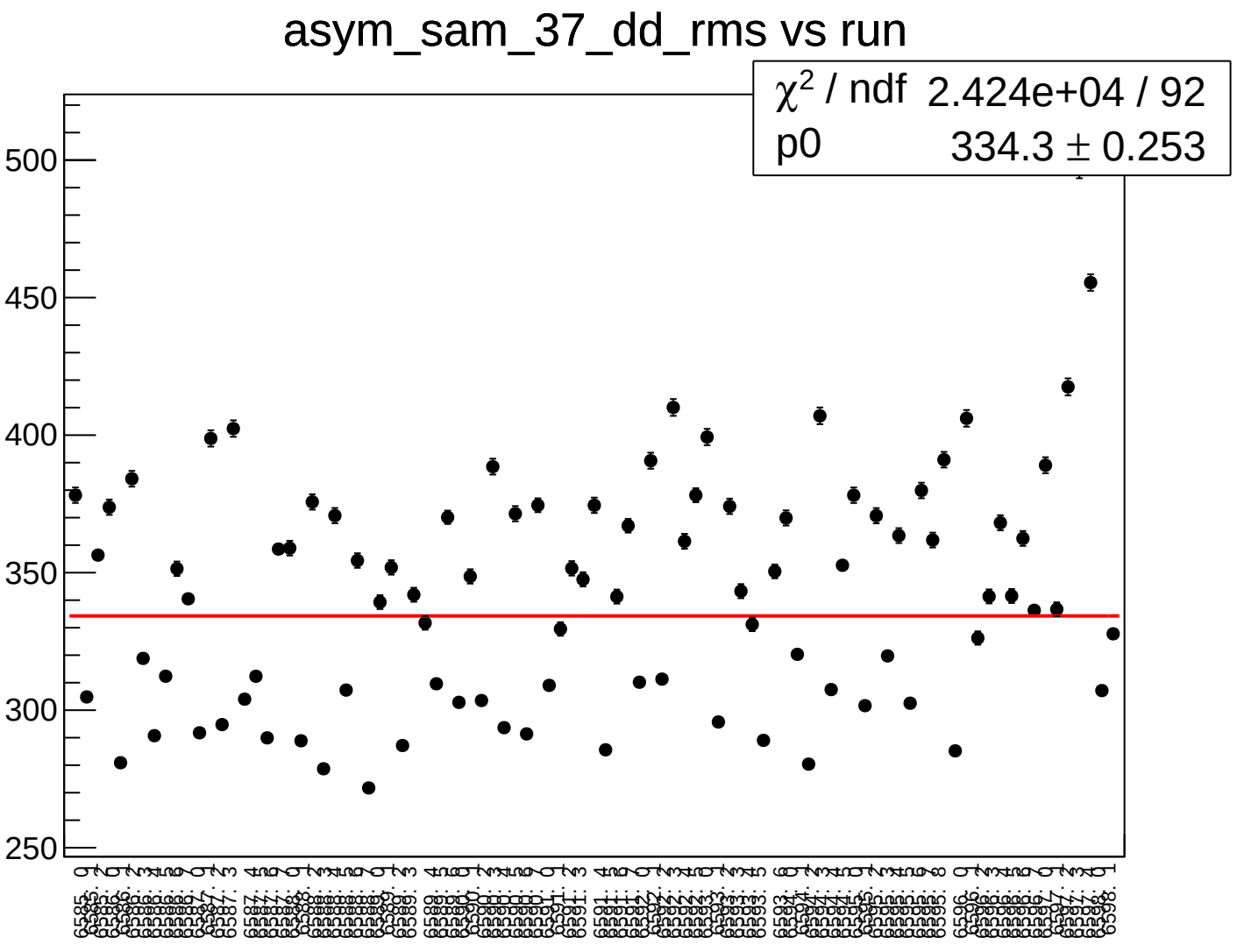

pull1D
Entries 93
Mean −0.002292
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

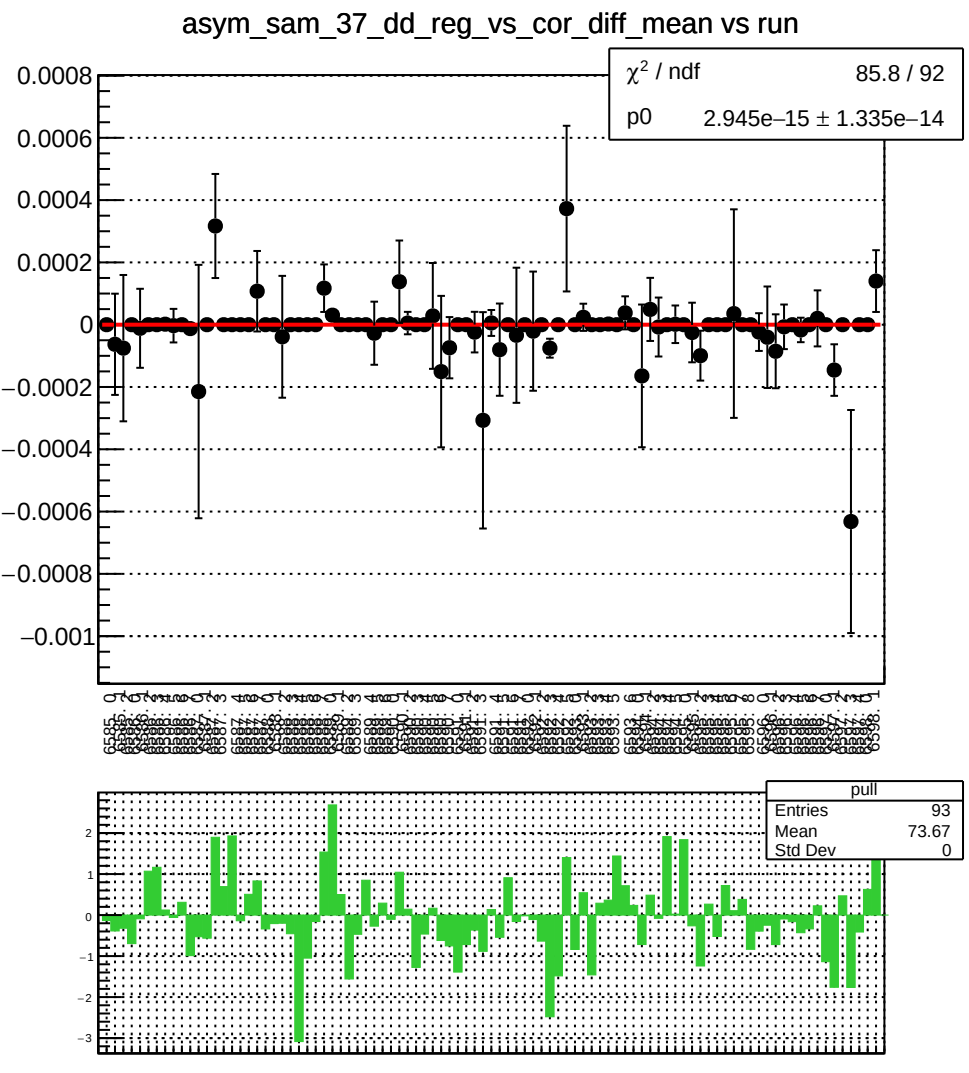

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 4.307e+04 / 92
p0 59.93 ± 0.0456
100
90
80
70
60
50

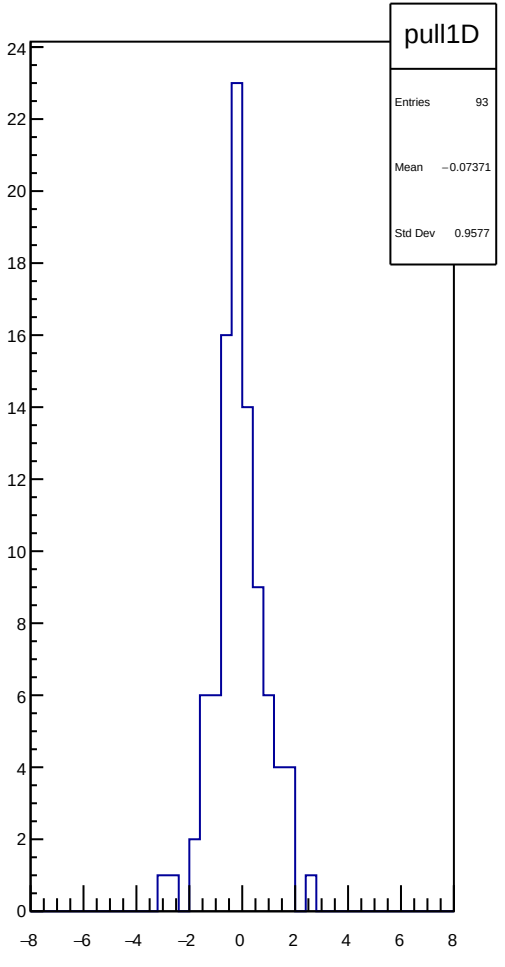

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 114.6 / 92
p0 −29.07 ± 332.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −347.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.002179
Std Dev 1.11
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

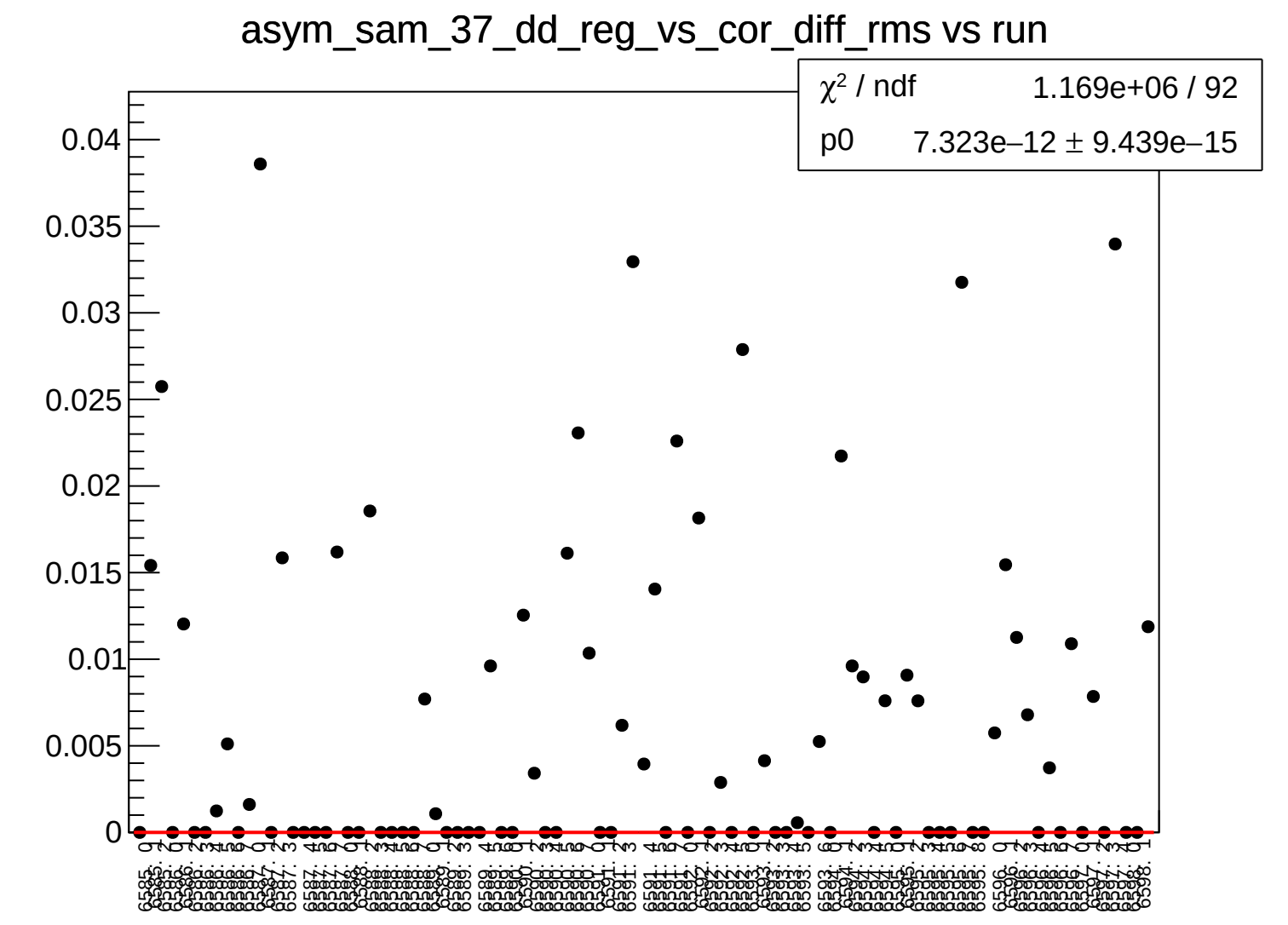

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.571e+04 / 92
p0 311.7 ± 0.2353
440
420
400
380
360
340
320
300
280
260

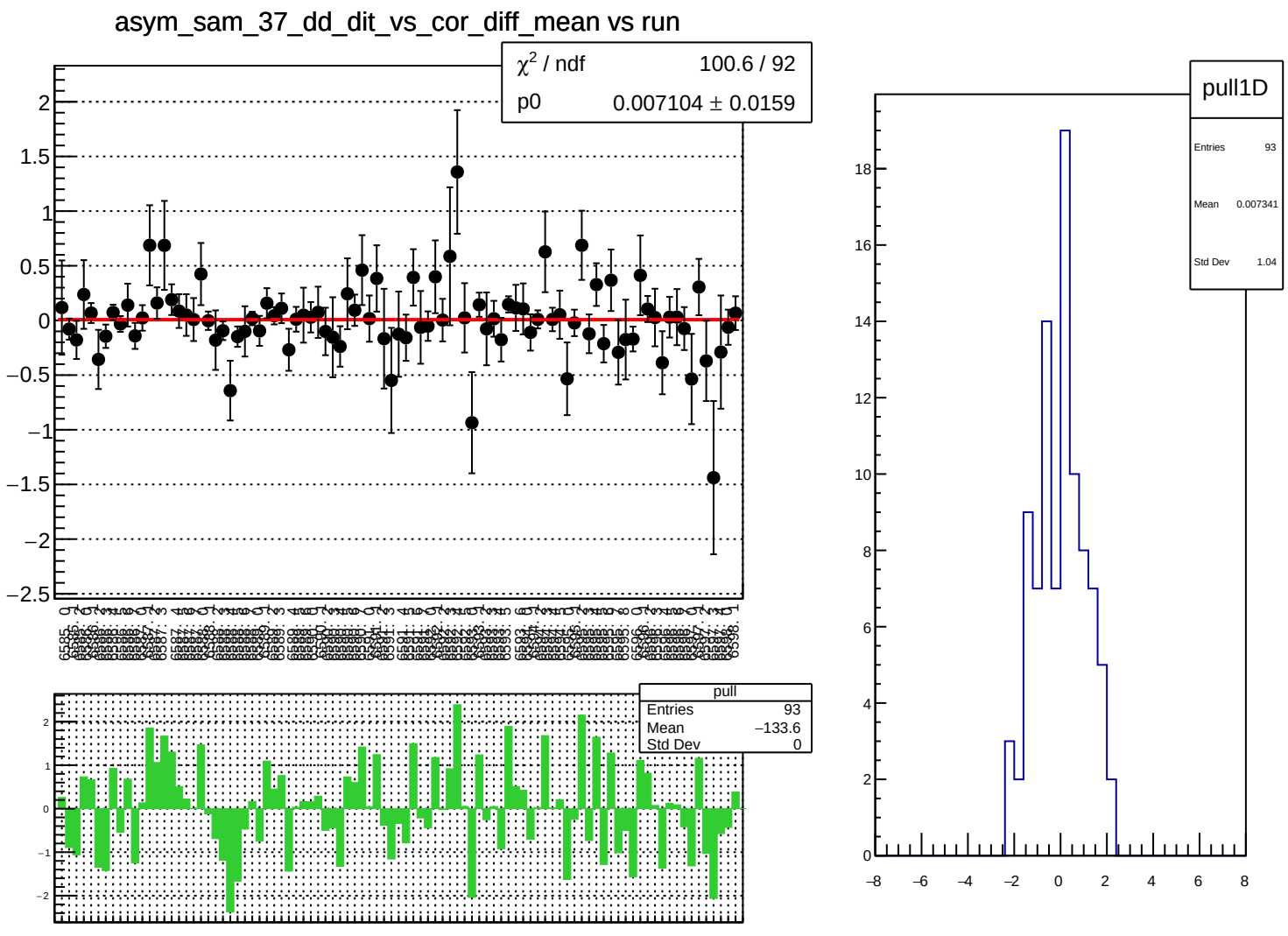

asym_sam_37_dd_mean vs run
χ² / ndf 113 / 92
p0 123.1 ± 357.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −30.21
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003294
Std Dev 1.102
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

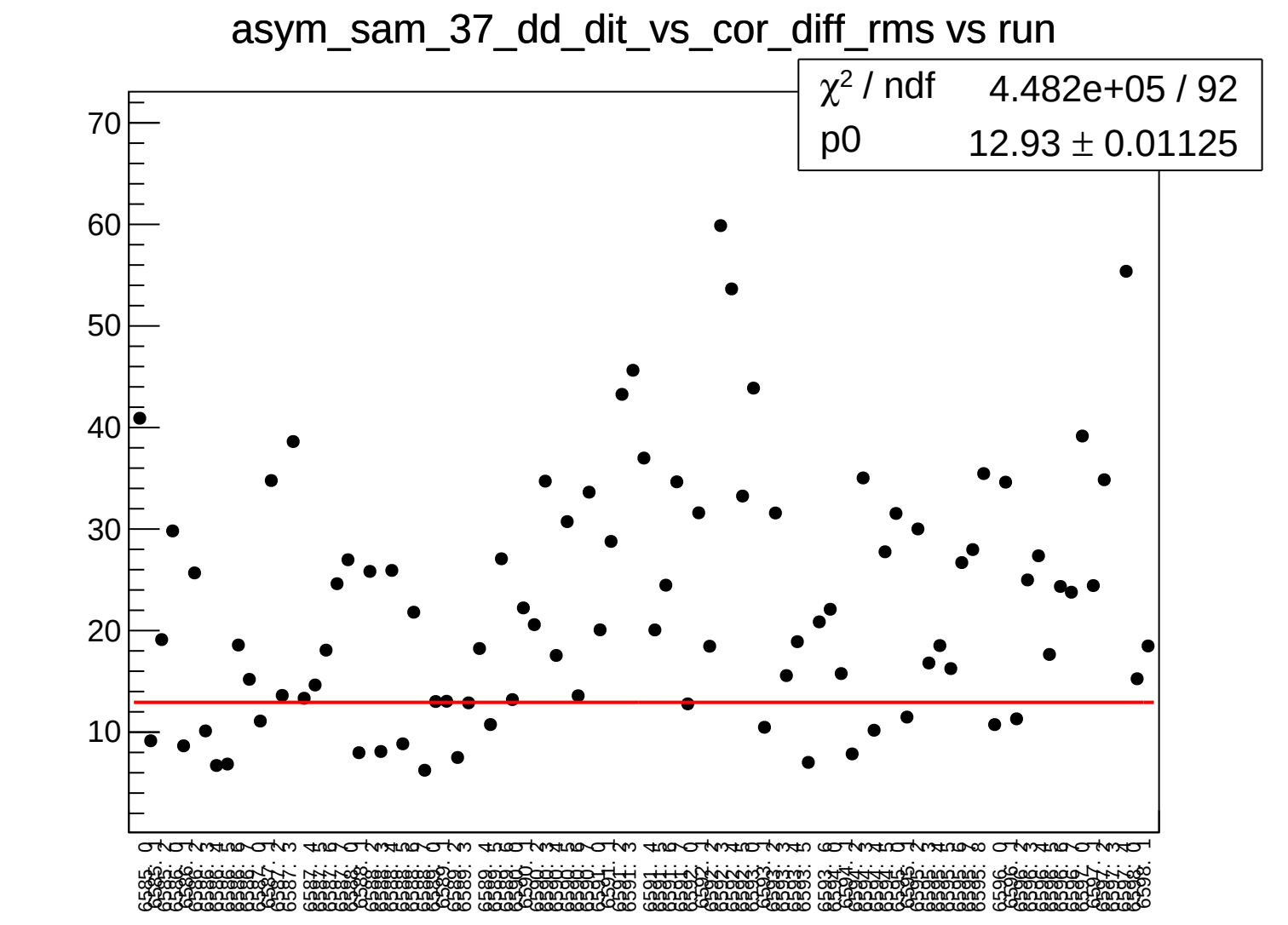

asym_sam_37_dd_rms vs run
χ² / ndf 2.424e+04 / 92
p0 334.3 ± 0.253
500
450
400
350
300
250

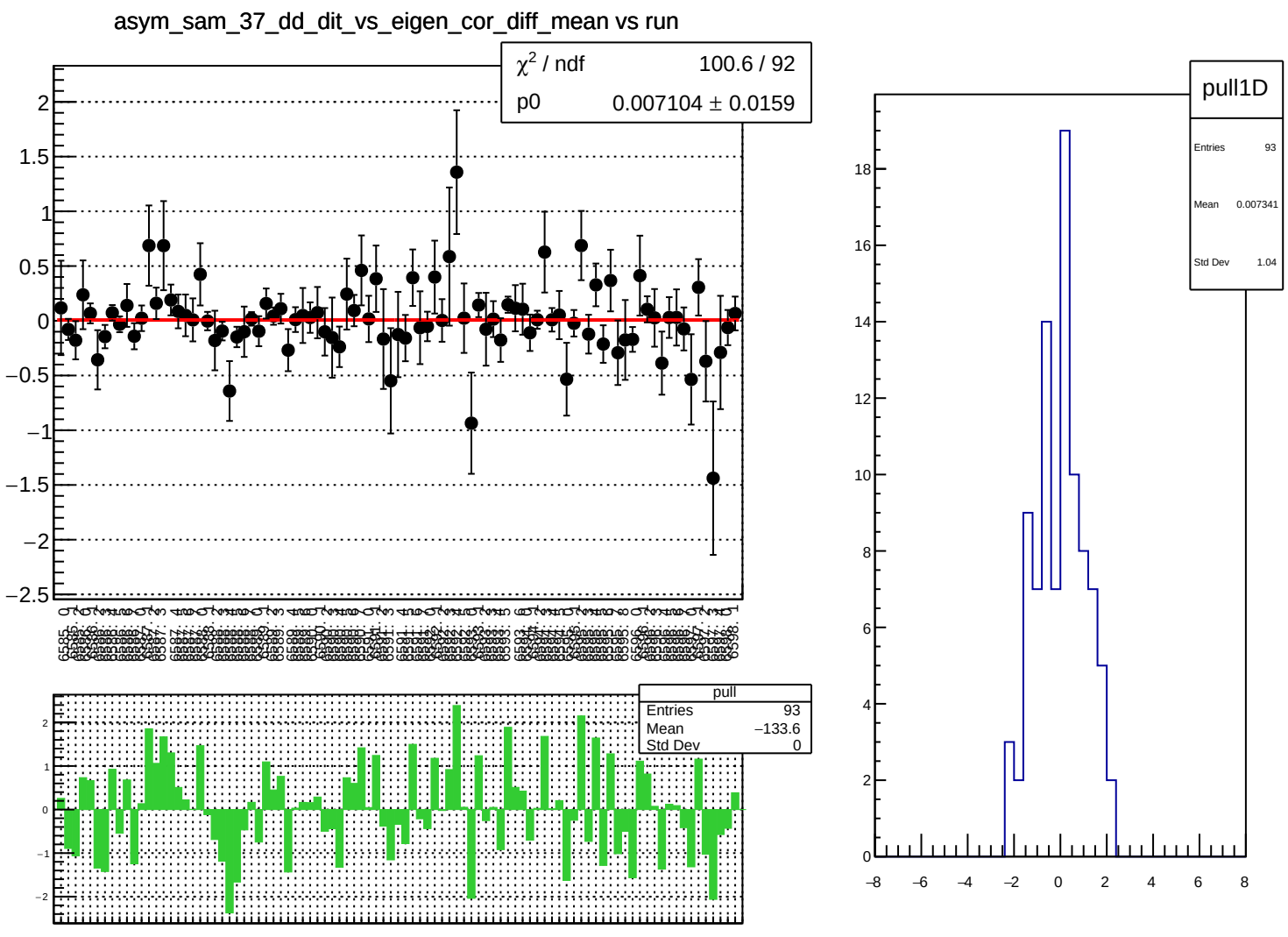

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.8 / 92
p0 2.945e−15 ± 1.335e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 93
Mean 73.67
Std Dev 0
2
1
0
−1
−2
−3

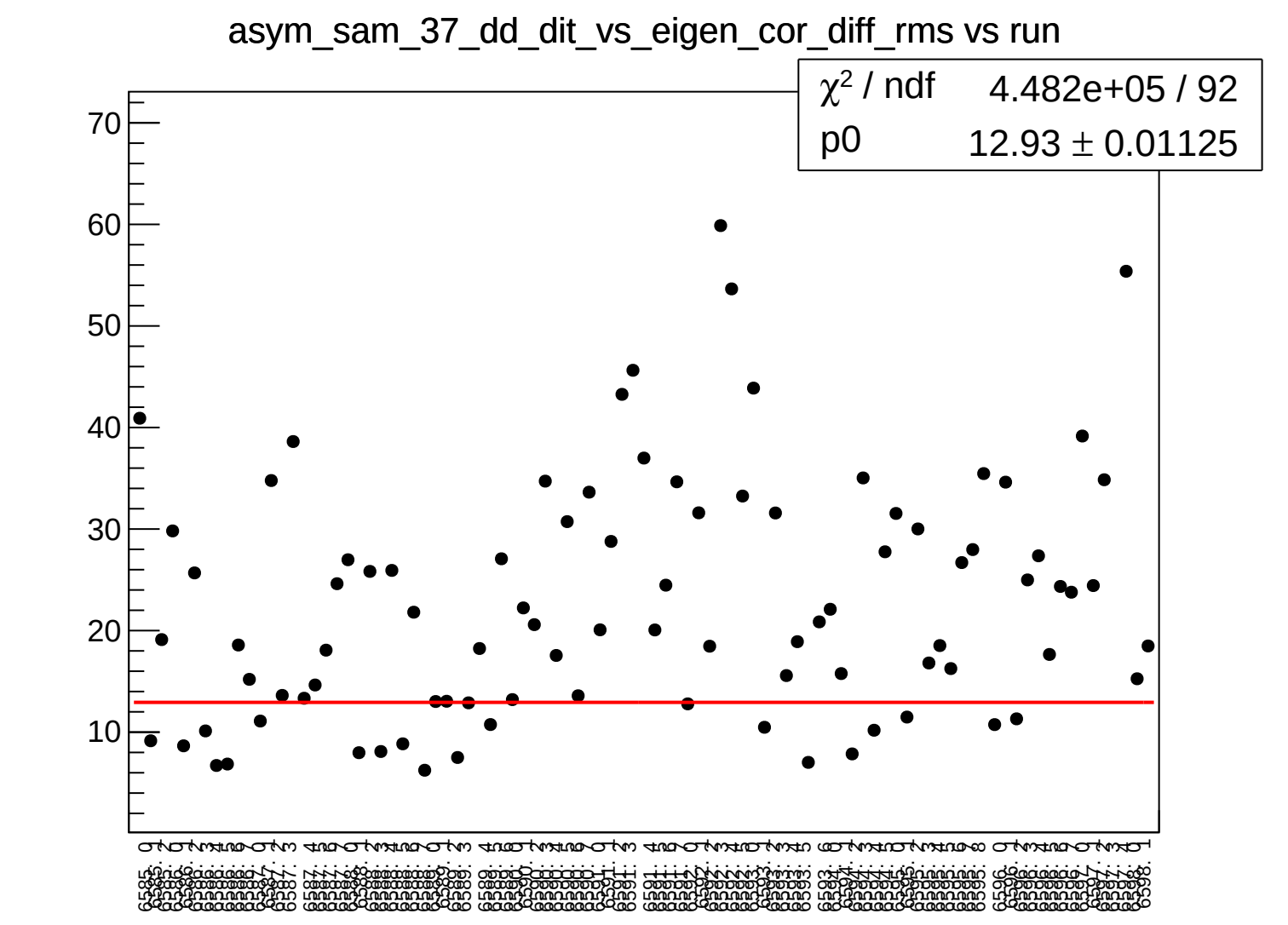

pull1D
Entries 93
Mean −0.07371
Std Dev 0.9577
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

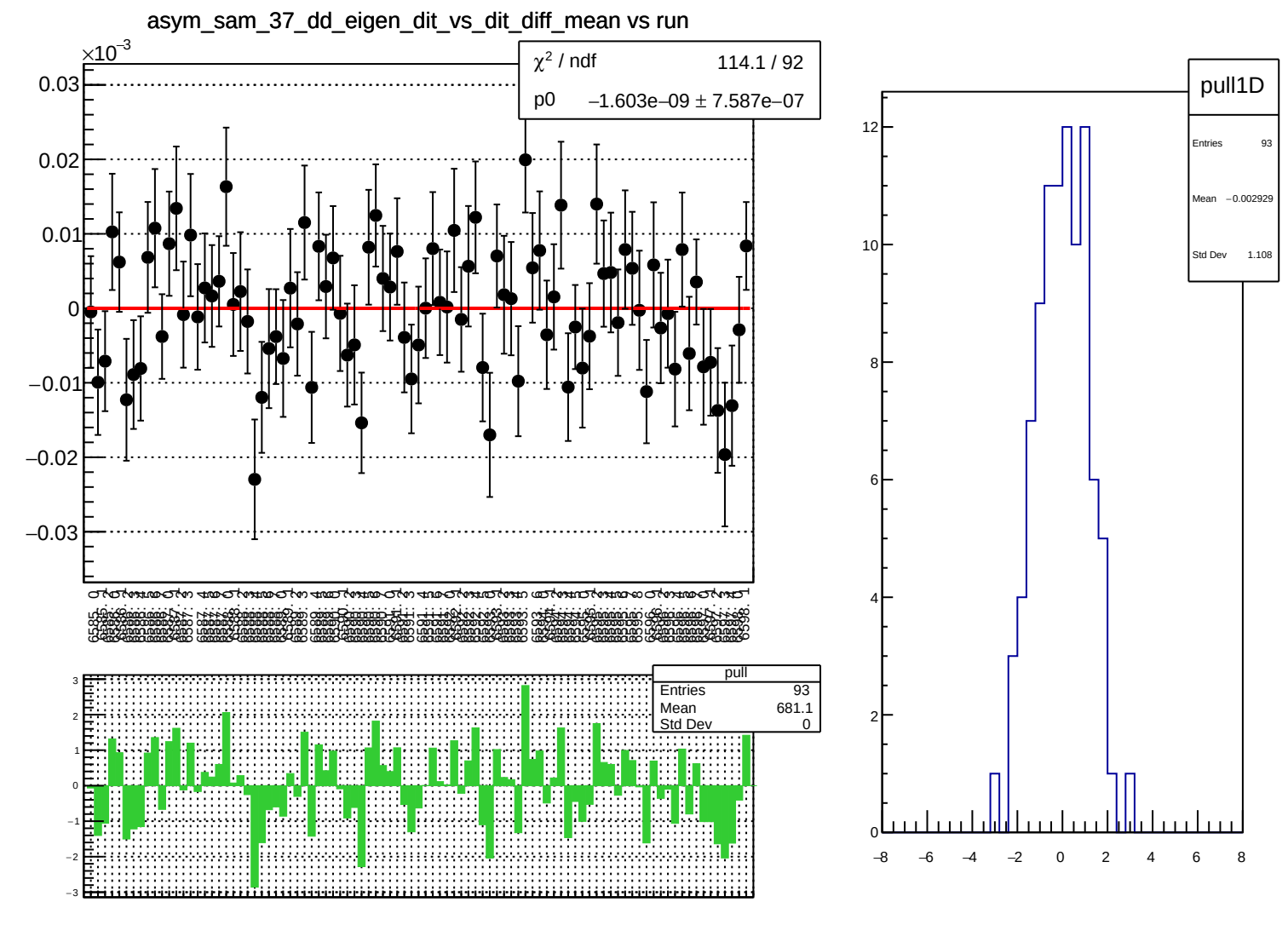

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.169e+06 / 92
p0 7.323e−12 ± 9.439e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

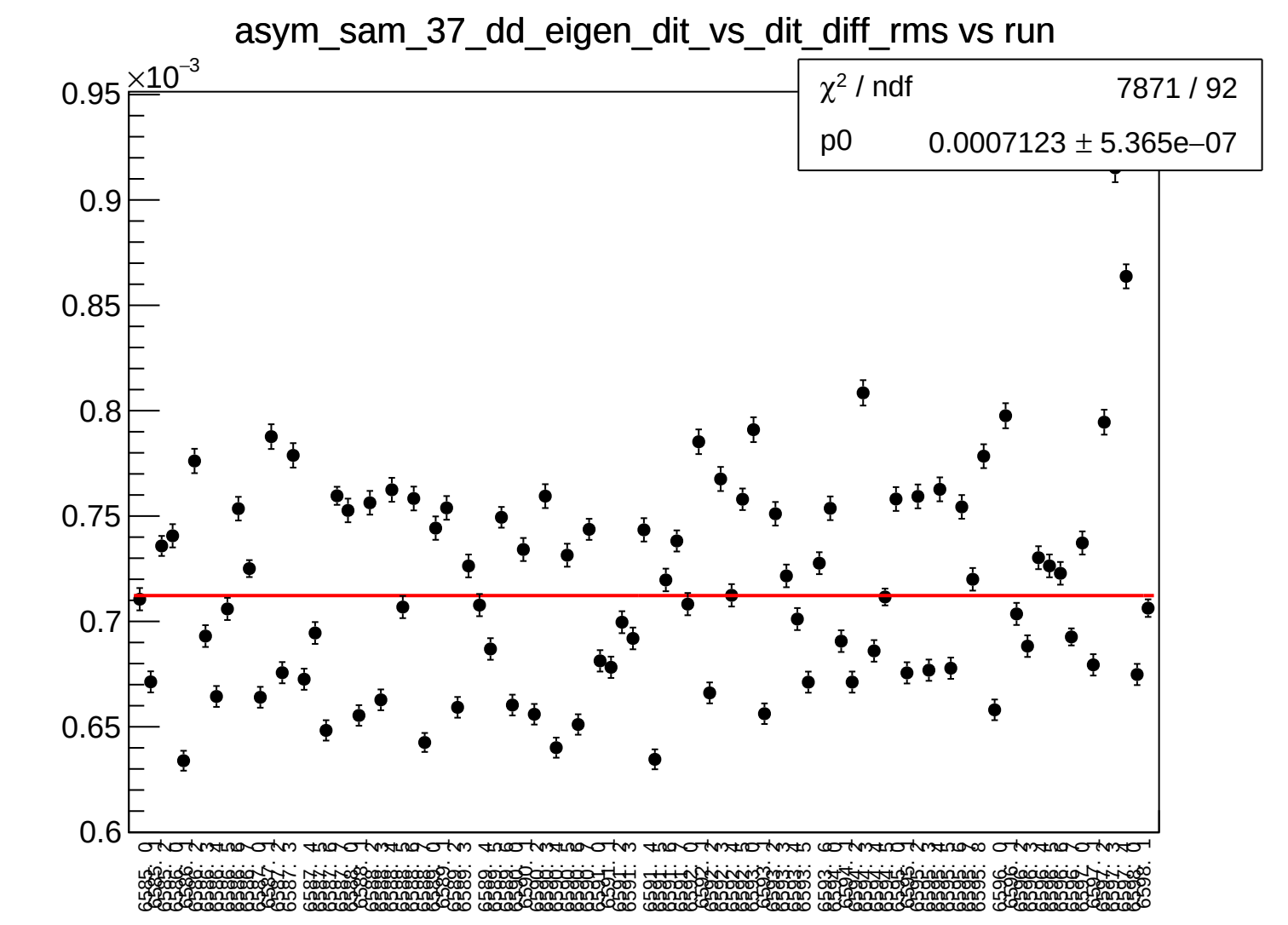

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 92
p0 0.007104 ± 0.0159
pull
Entries 93
Mean −133.6
Std Dev 0
pull1D
Entries 93
Mean 0.007341
Std Dev 1.04

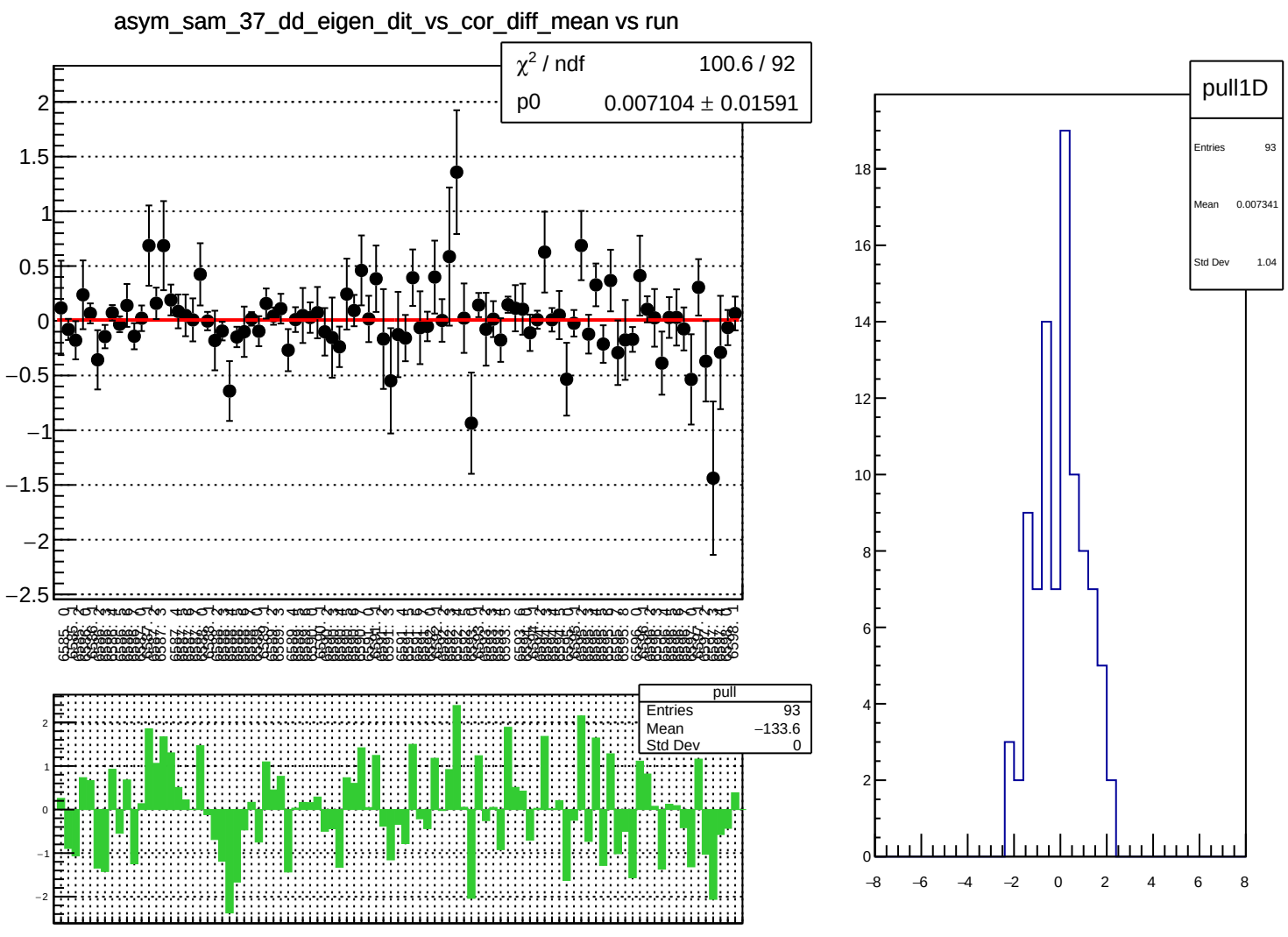

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.482e+05 / 92
p0 12.93 ± 0.01125
70
60
50
40
30
20
10

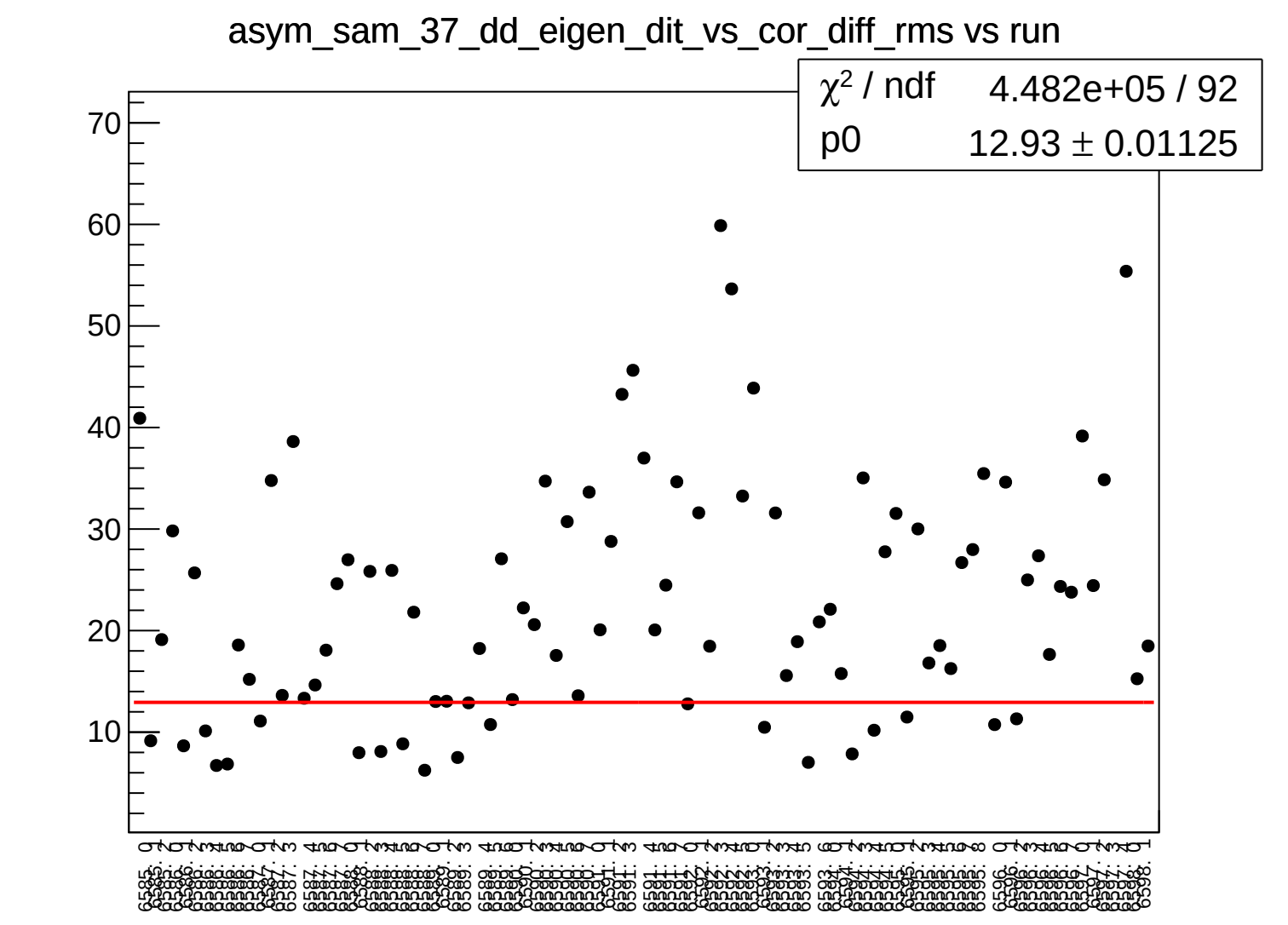

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.6 / 92
p0 0.007104 ± 0.0159
pull
Entries 93
Mean −133.6
Std Dev 0
pull1D
Entries 93
Mean 0.007341
Std Dev 1.04

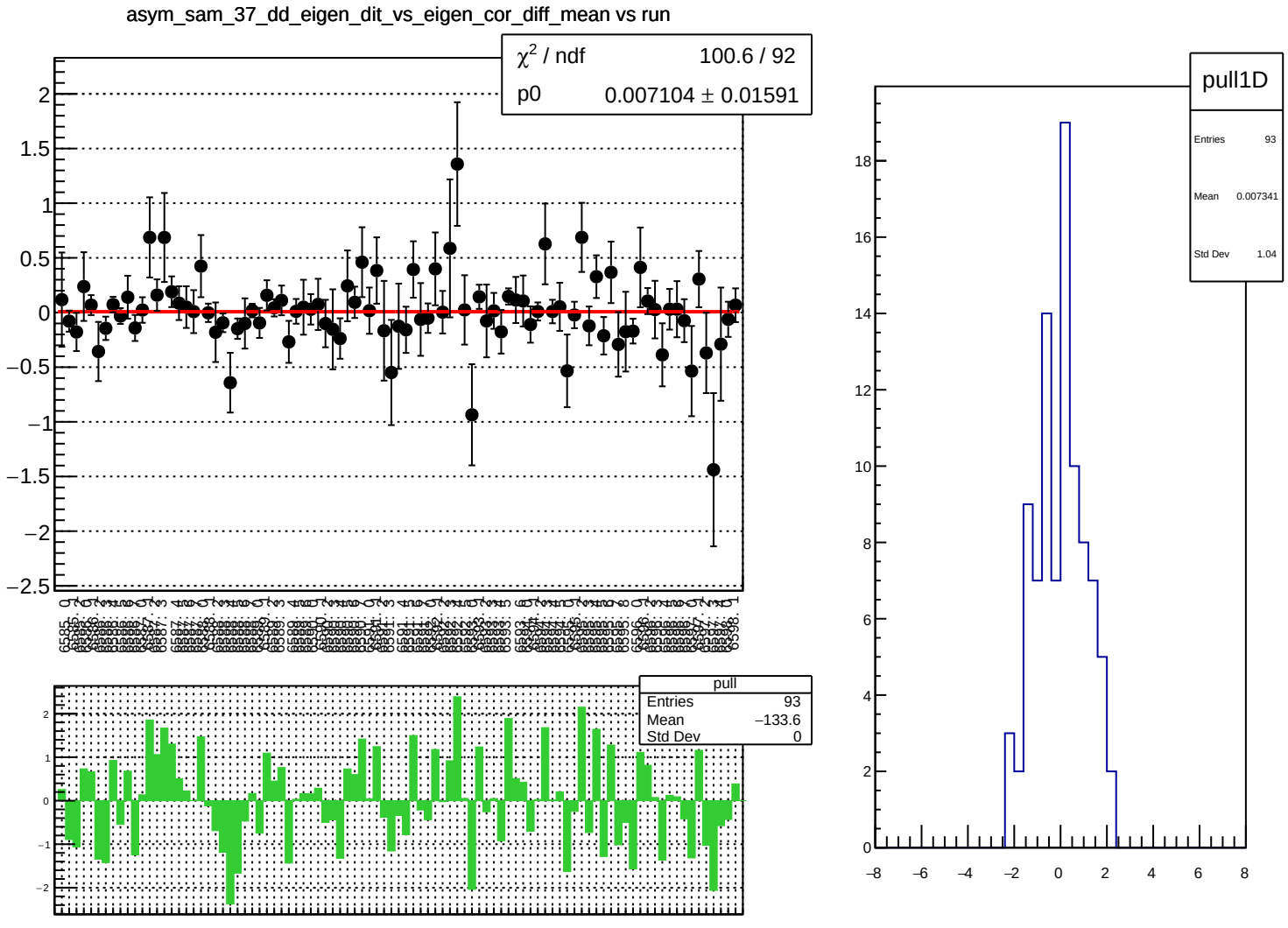

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.482e+05 / 92
p0 12.93 ± 0.01125
70
60
50
40
30
20
10

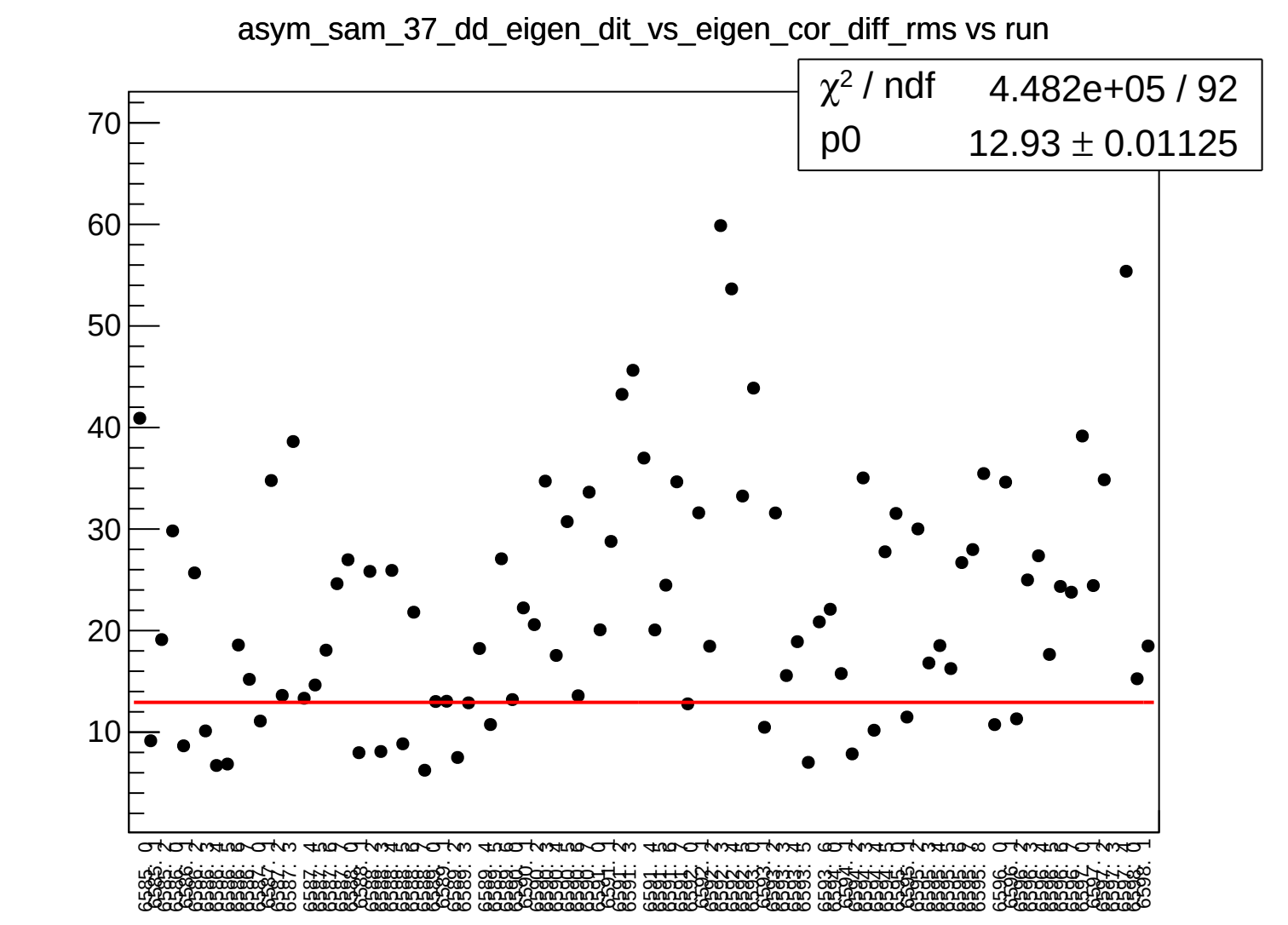

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 114.1 / 92
p0 −1.603e−09 ± 7.587e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 681.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002929
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

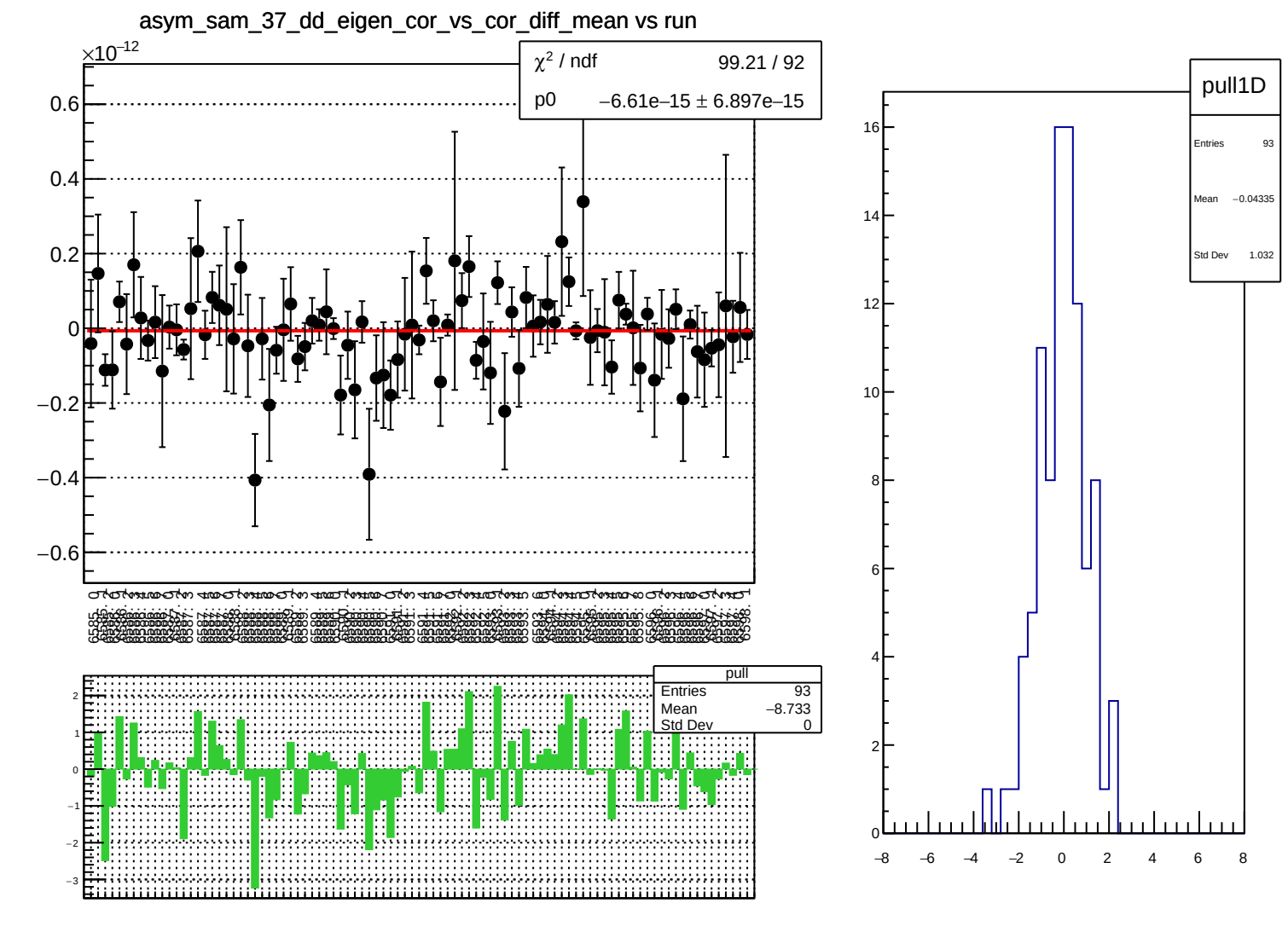

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 7871 / 92
p0 0.0007123 ± 5.365e−07
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6

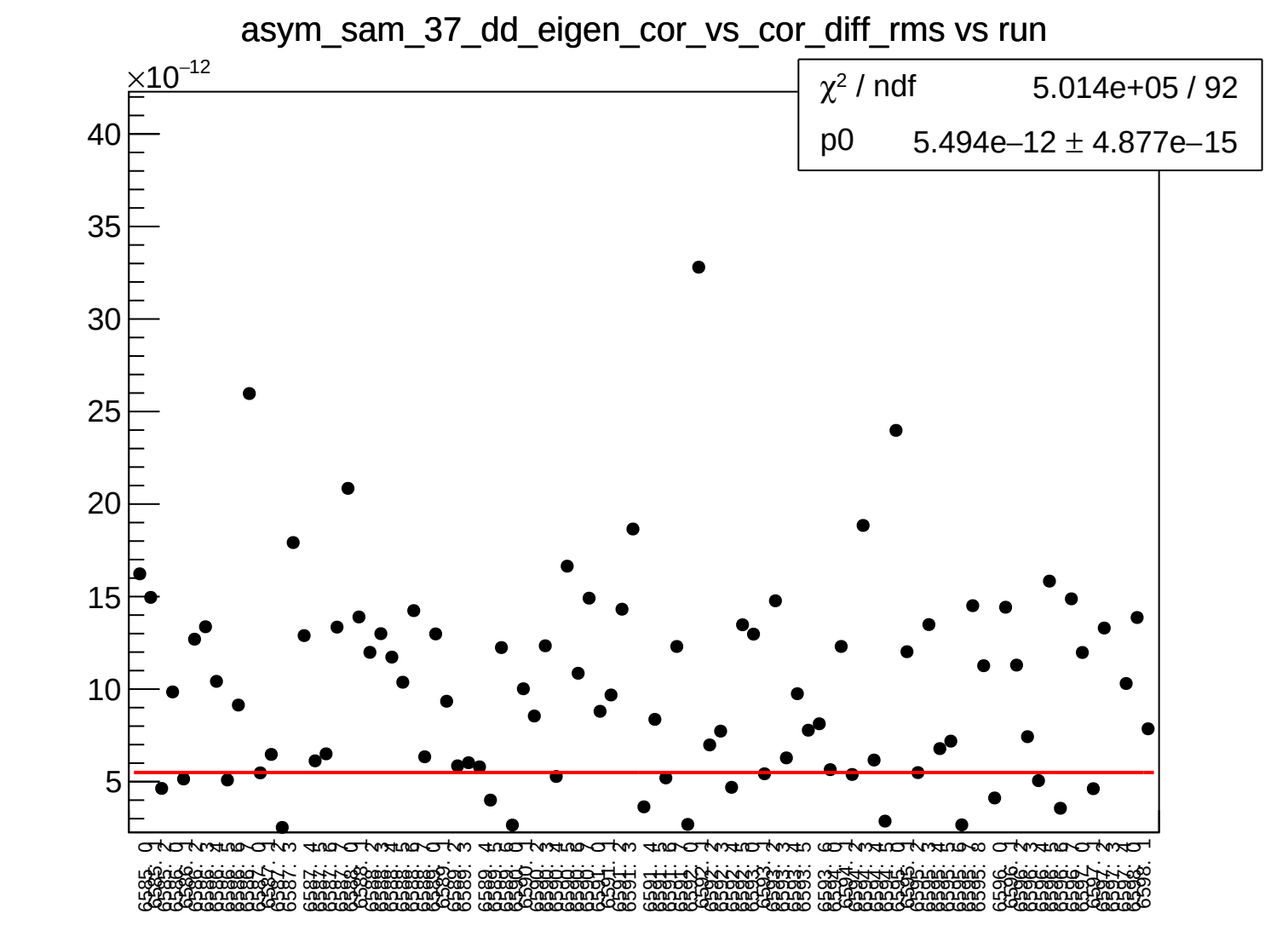

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 92
p0 0.007104 ± 0.01591
pull
Entries 93
Mean −133.6
Std Dev 0
pull1D
Entries 93
Mean 0.007341
Std Dev 1.04

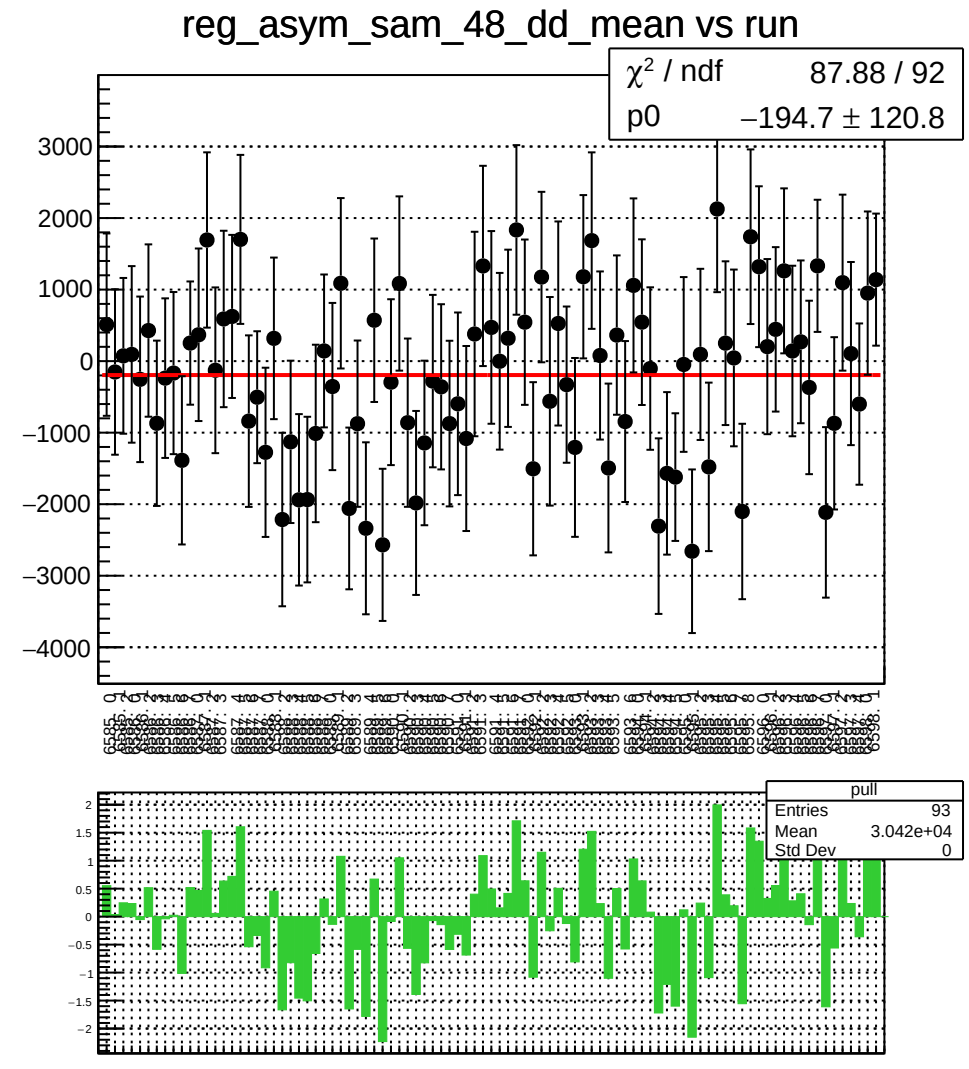

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.482e+05 / 92
p0 12.93 ± 0.01125
70
60
50
40
30
20
10

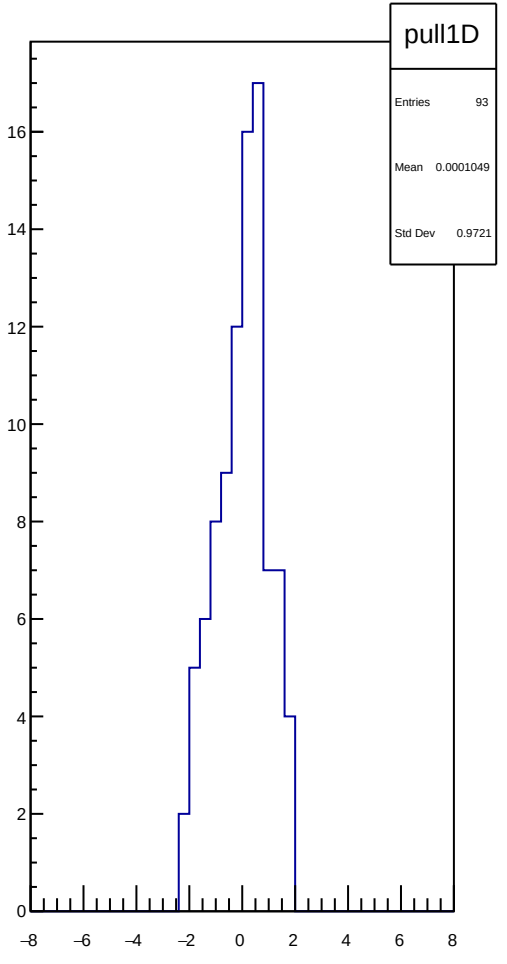

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.6 / 92
p0 0.007104 ± 0.01591
pull
Entries 93
Mean −133.6
Std Dev 0
pull1D
Entries 93
Mean 0.007341
Std Dev 1.04

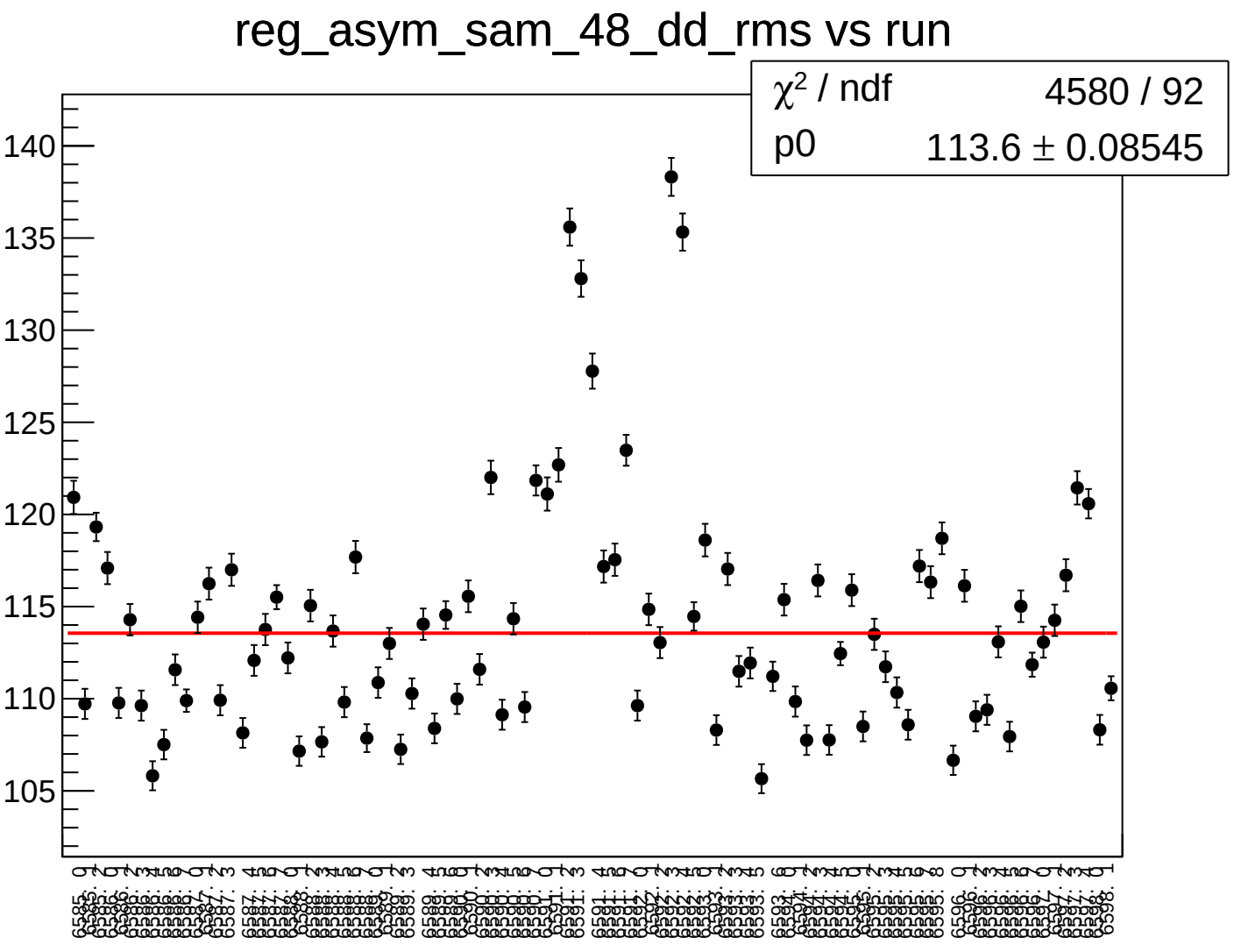

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.482e+05 / 92
p0 12.93 ± 0.01125
70
60
50
40
30
20
10

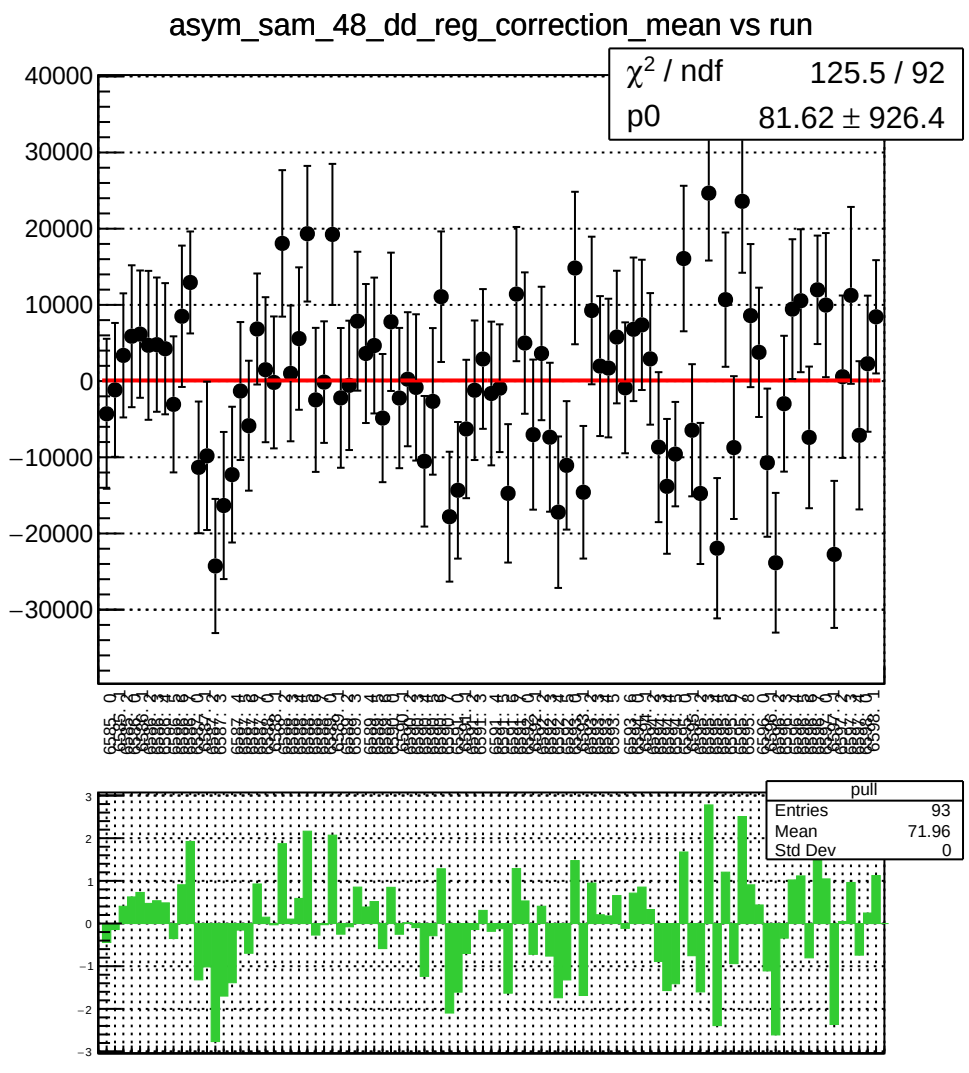

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 99.21 / 92
p0 −6.61e−15 ± 6.897e−15
pull
Entries 93
Mean −8.733
Std Dev 0
pull1D
Entries 93
Mean −0.04335
Std Dev 1.032

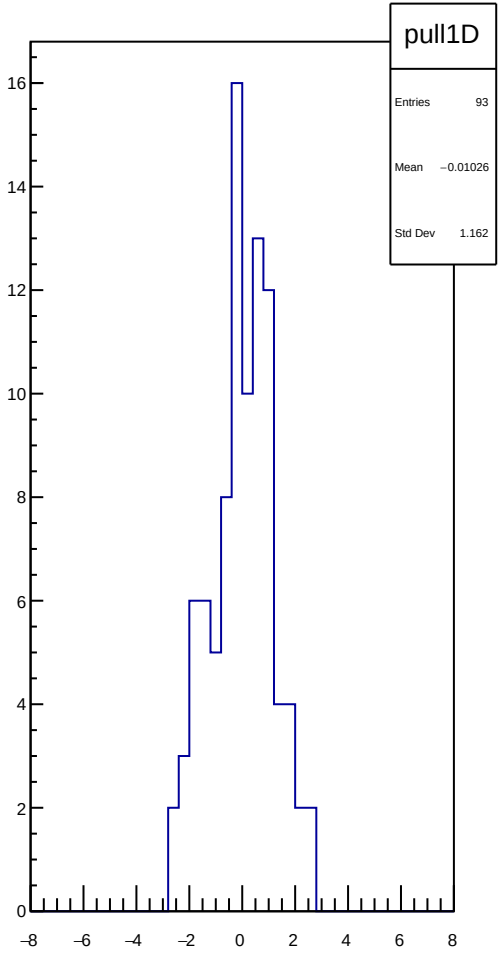

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.014e+05 / 92
p0 5.494e−12 ± 4.877e−15
40
35
30
25
20
15
10
5

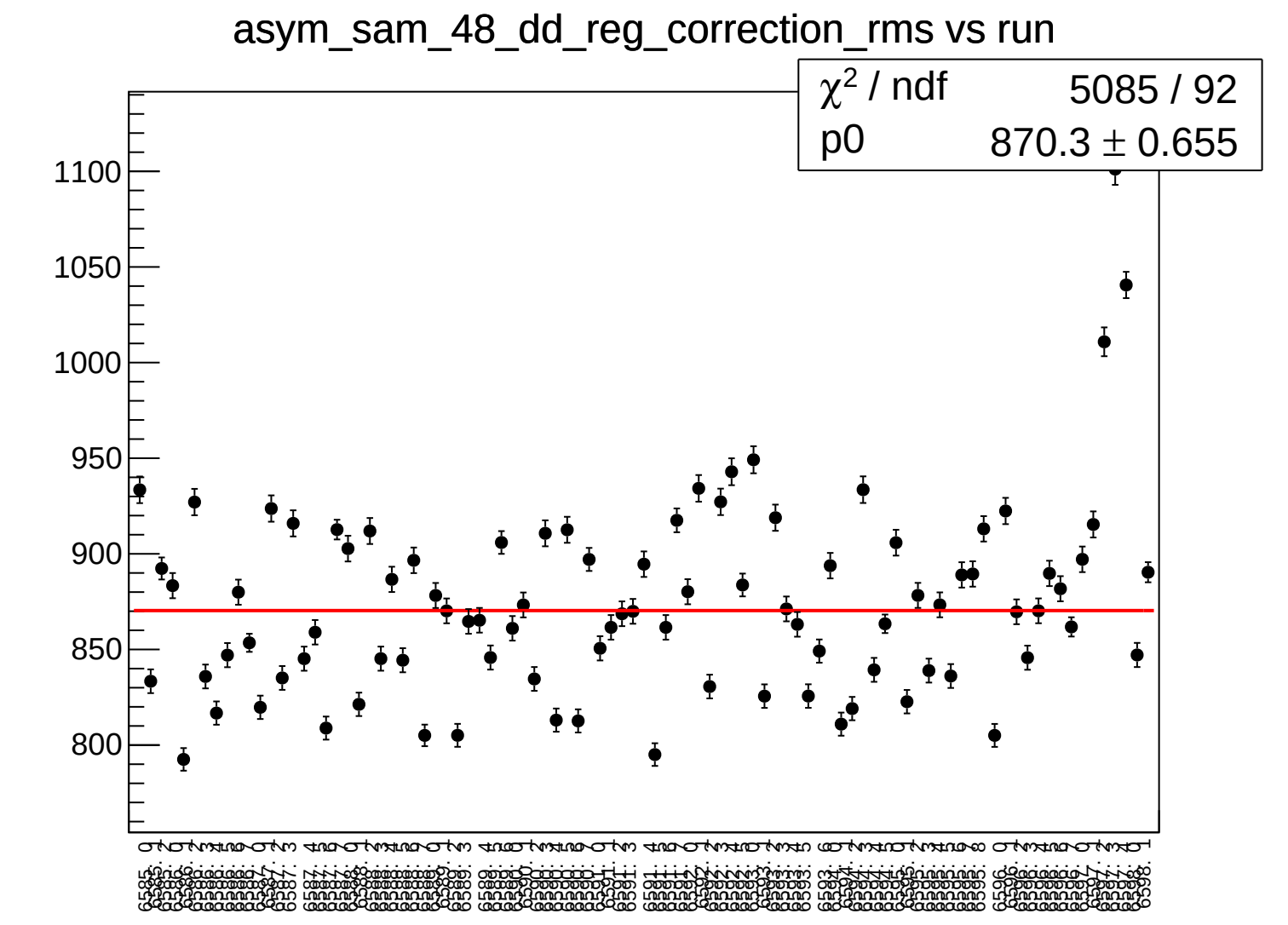

reg_asym_sam_48_dd_mean vs run
χ² / ndf 87.88 / 92
p0 −194.7 ± 120.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 3.042e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

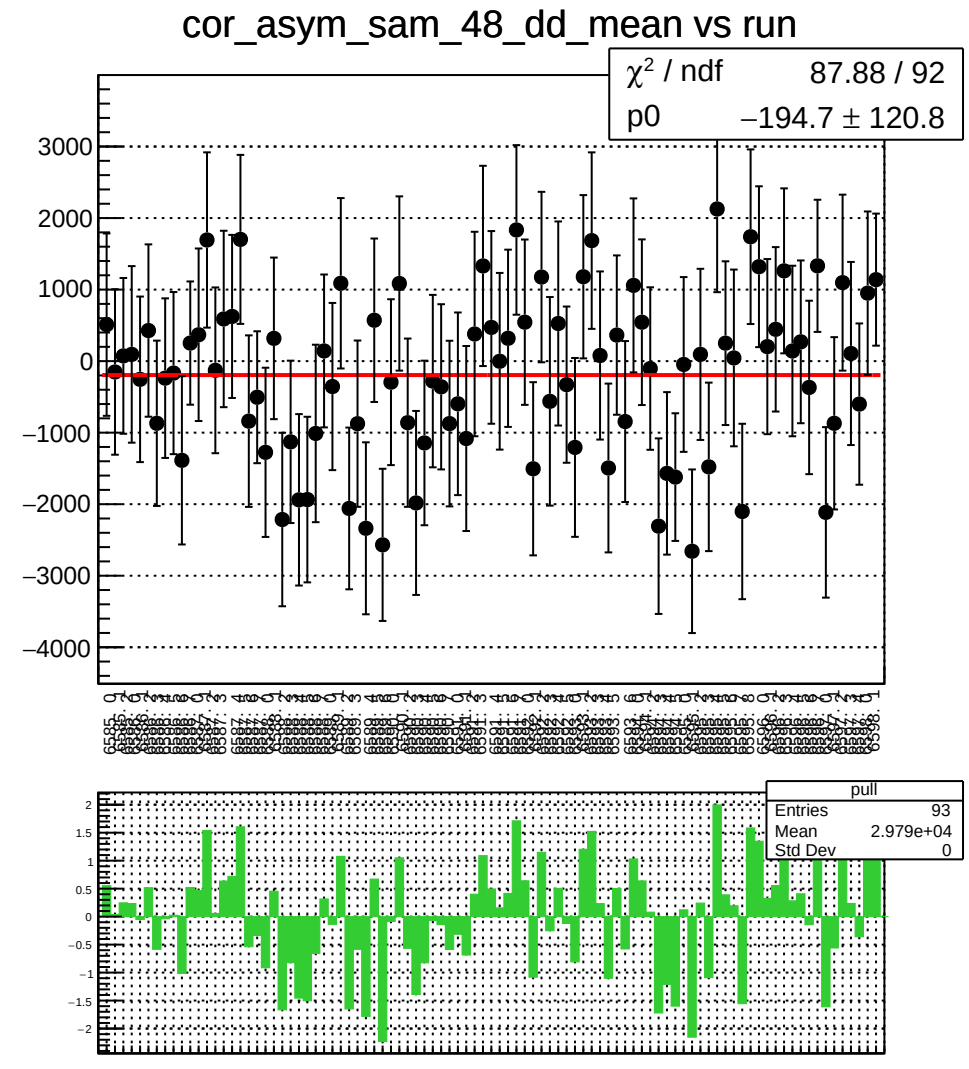

pull1D
Entries 93
Mean 0.0001049
Std Dev 0.9721
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

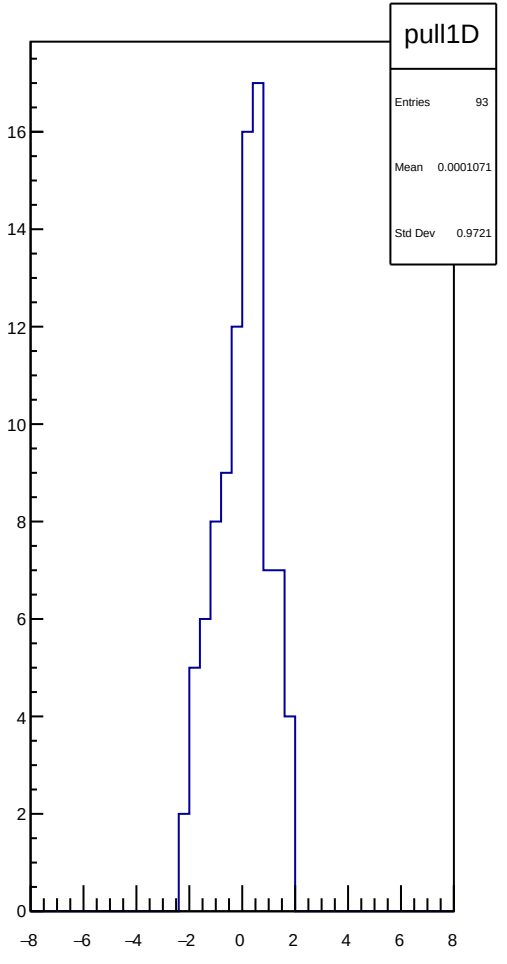

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 4580 / 92
p0 113.6 ± 0.08545
140
135
130
125
120
115
110
105

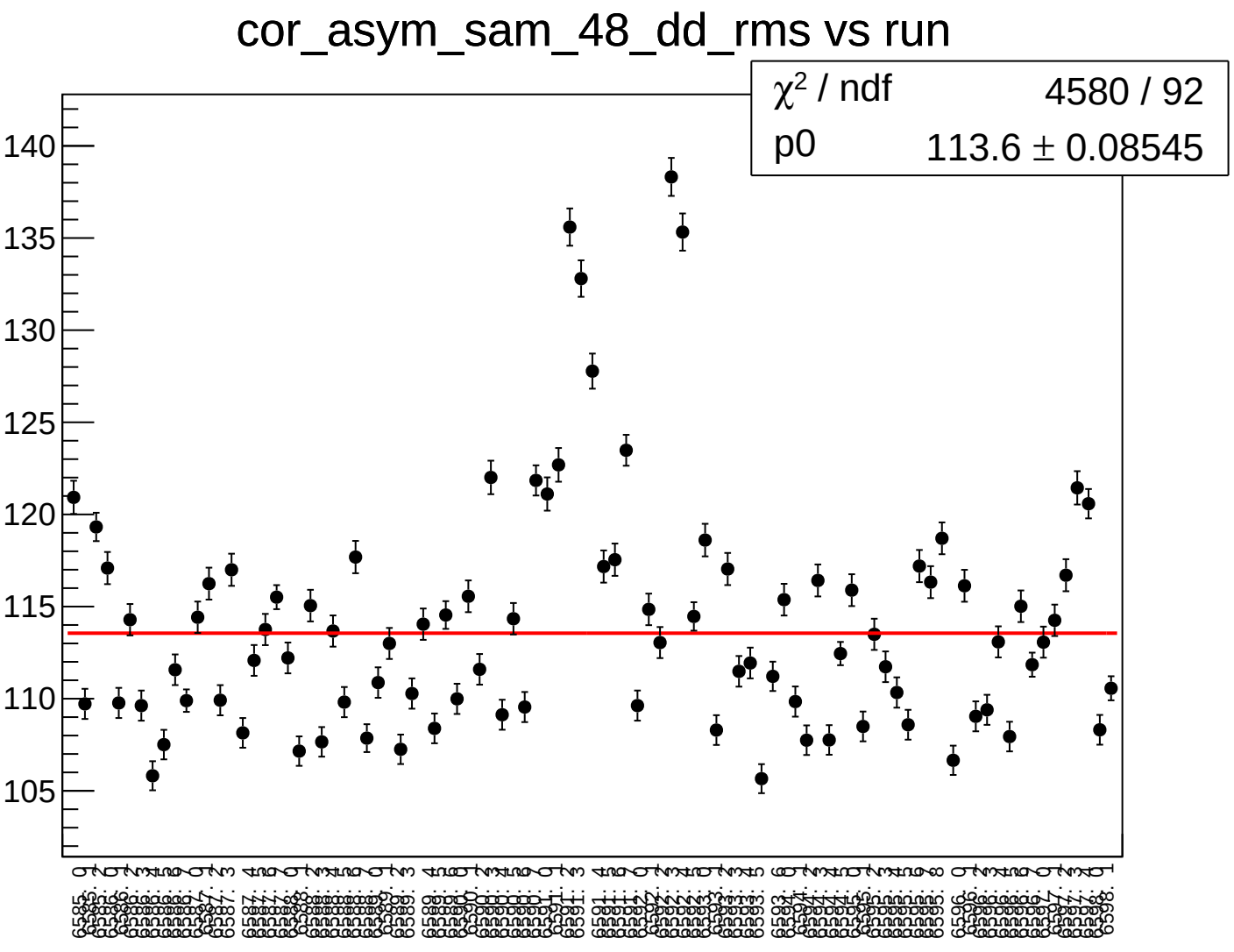

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 125.5 / 92
p0 81.62 ± 926.4
pull
Entries 93
Mean 71.96
Std Dev 0

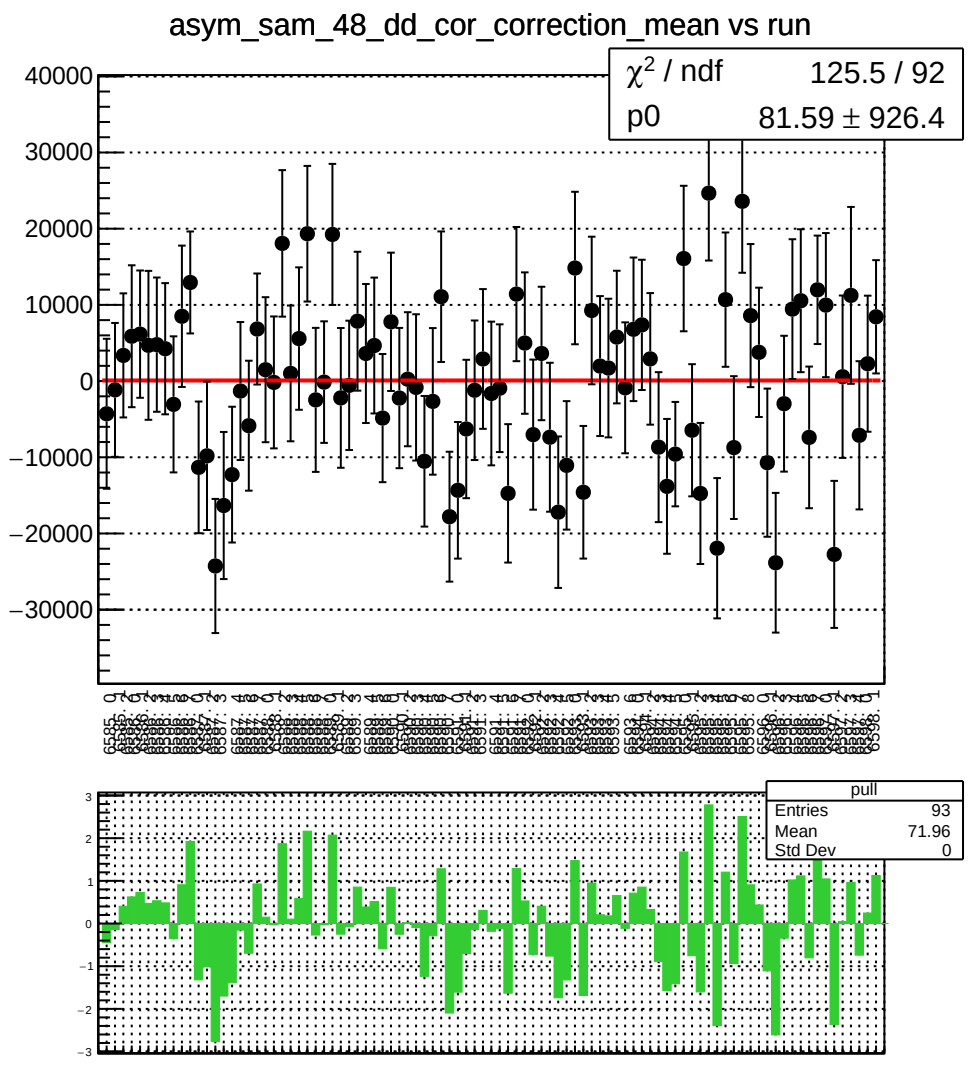

pull1D
Entries 93
Mean −0.01026
Std Dev 1.162

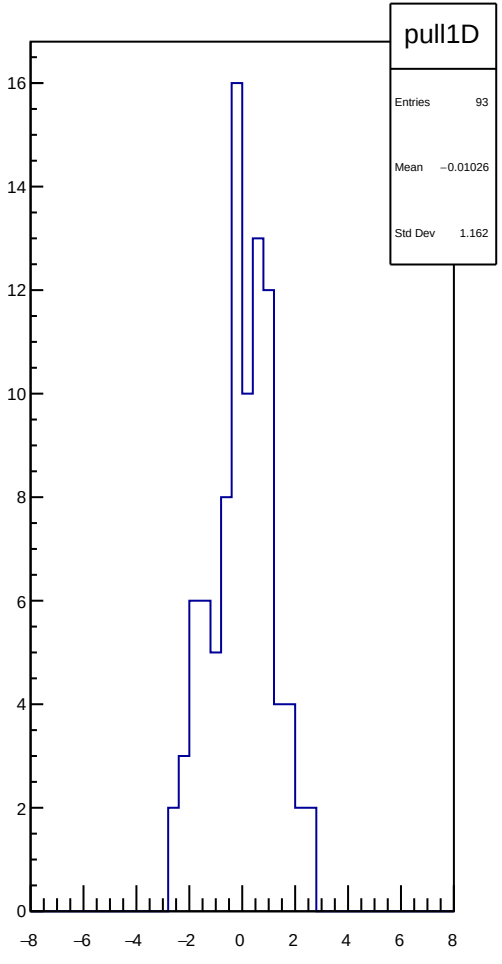

asym_sam_48_dd_reg_correction_rms vs run
χ^2 / ndf 5085 / 92
p0 870.3 ± 0.655
1100
1050
1000
950
900
850
800

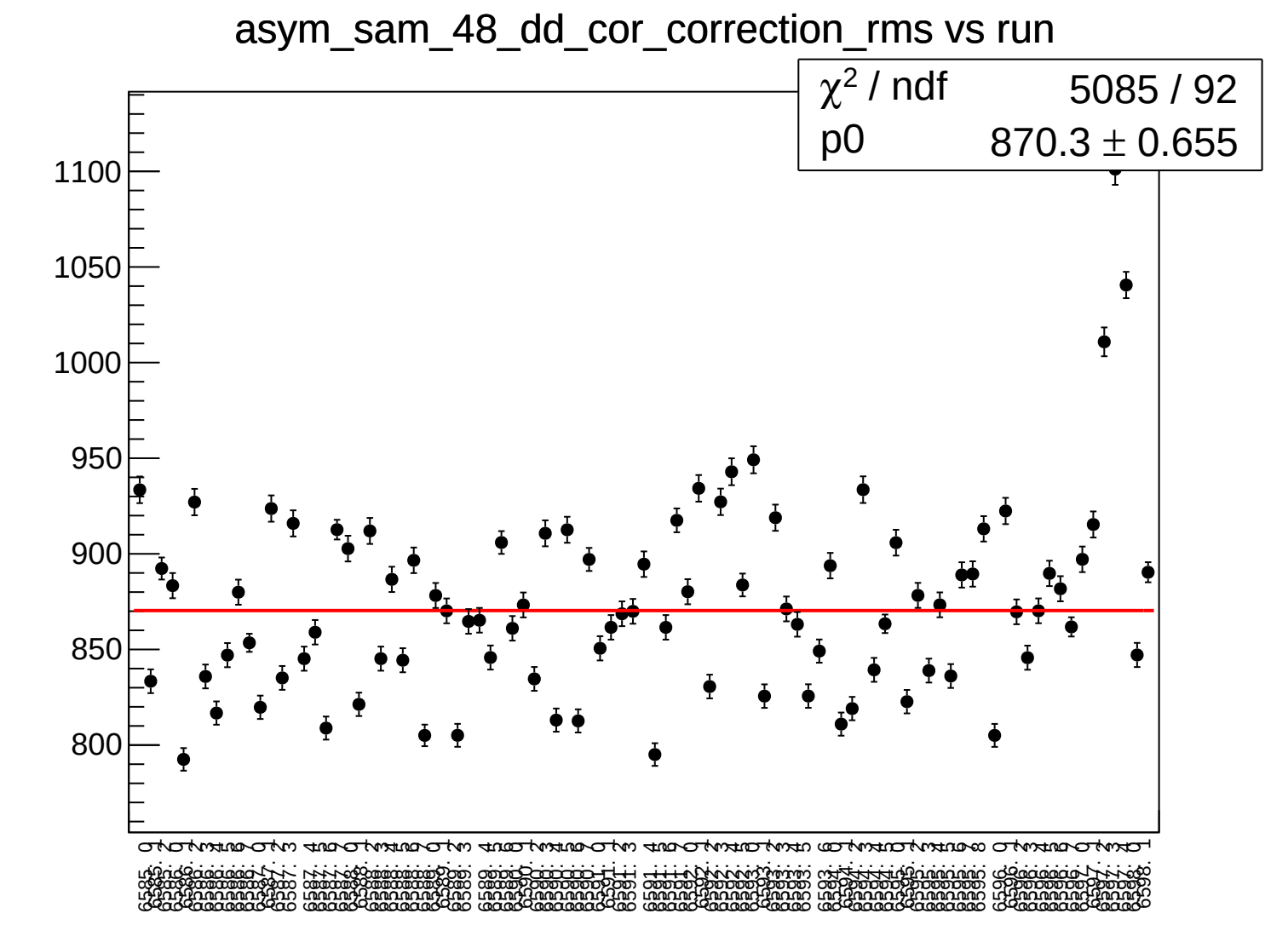

cor_asym_sam_48_dd_mean vs run
χ² / ndf 87.88 / 92
p0 −194.7 ± 120.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 2.979e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

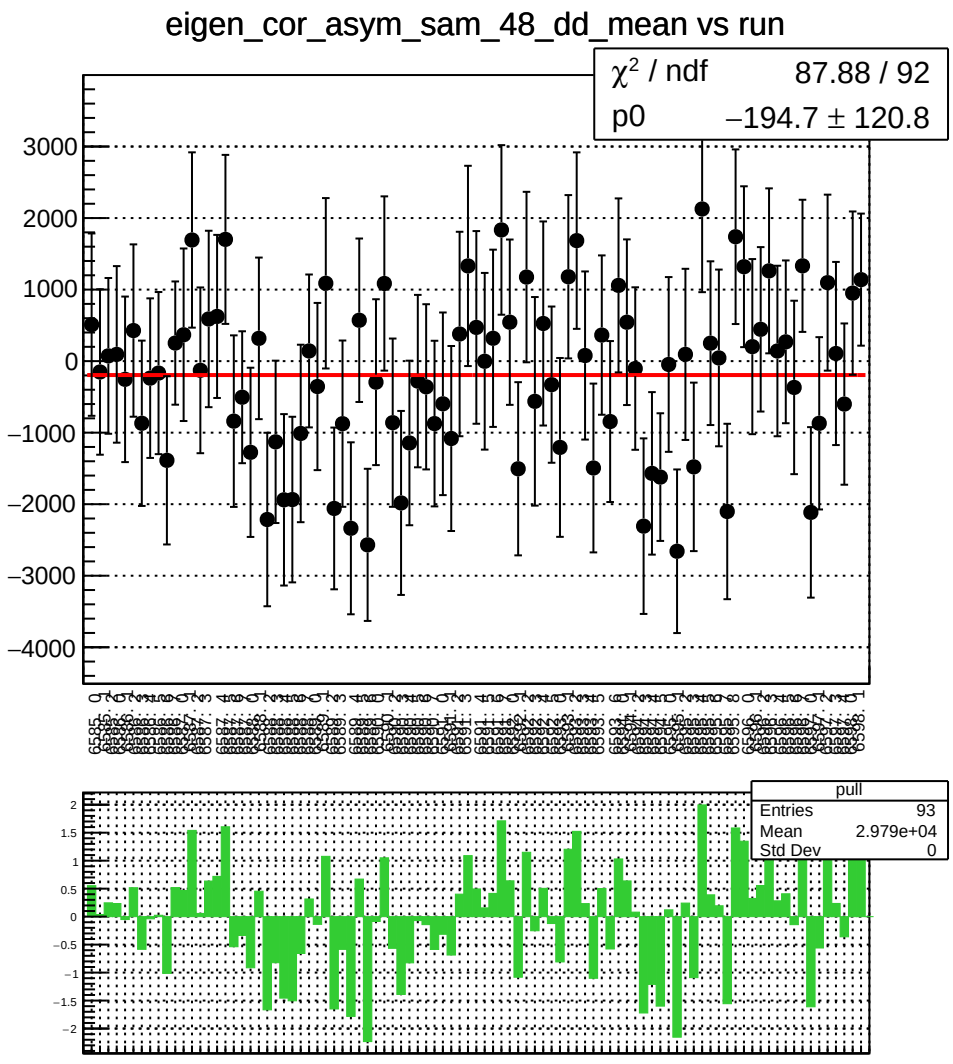

pull1D
Entries 93
Mean 0.0001071
Std Dev 0.9721
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

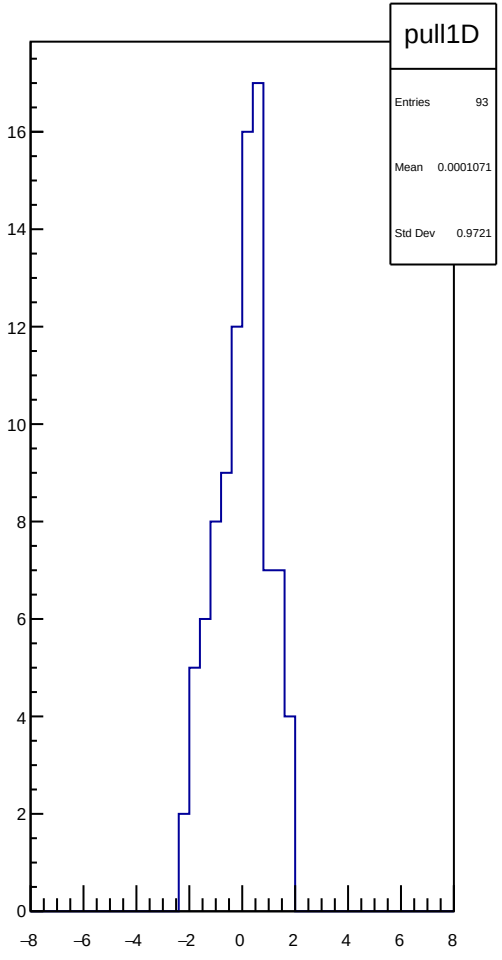

cor_asym_sam_48_dd_rms vs run
χ² / ndf 4580 / 92
p0 113.6 ± 0.08545
140
135
130
125
120
115
110
105

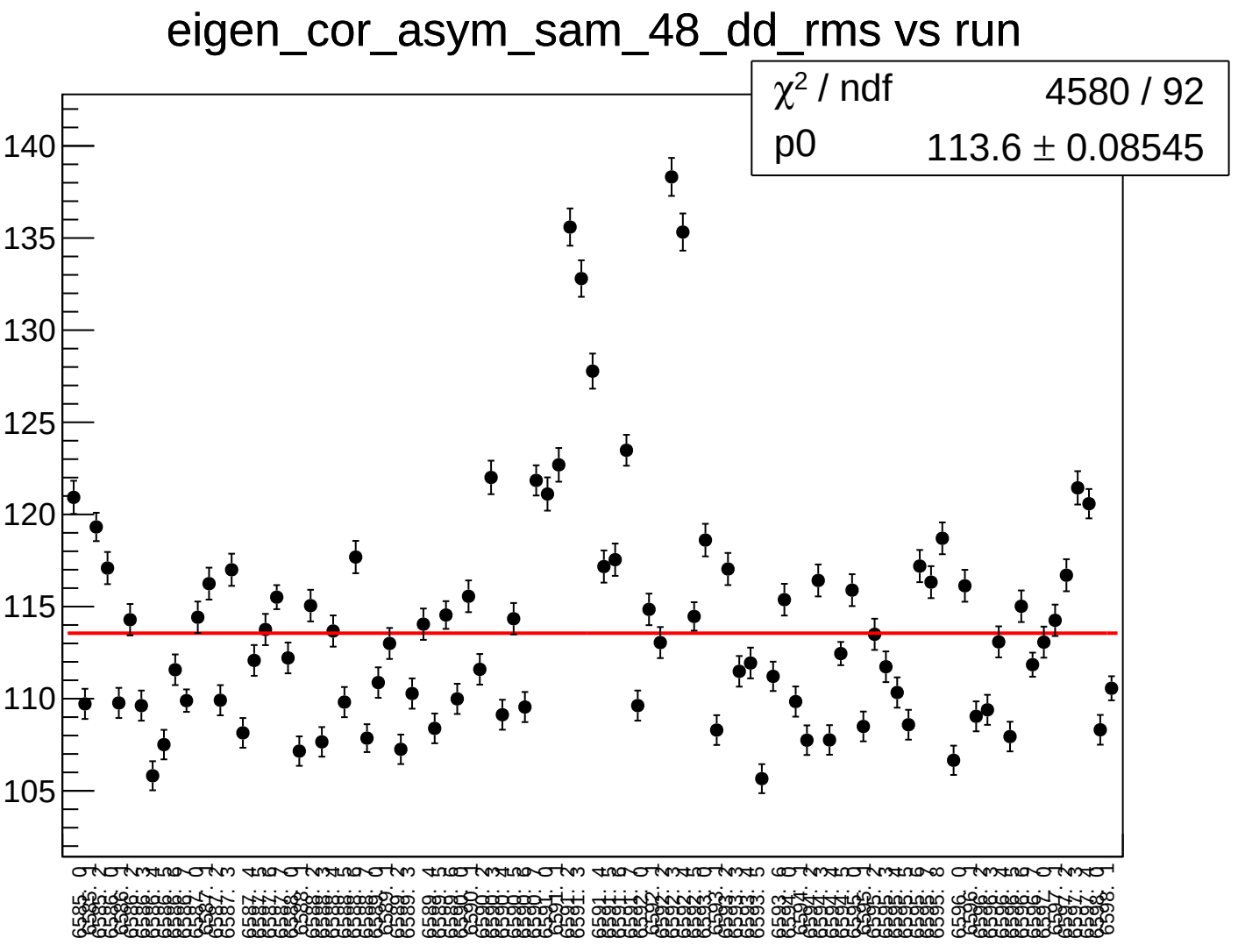

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 125.5 / 92
p0 81.59 ± 926.4
pull
Entries 93
Mean 71.96
Std Dev 0

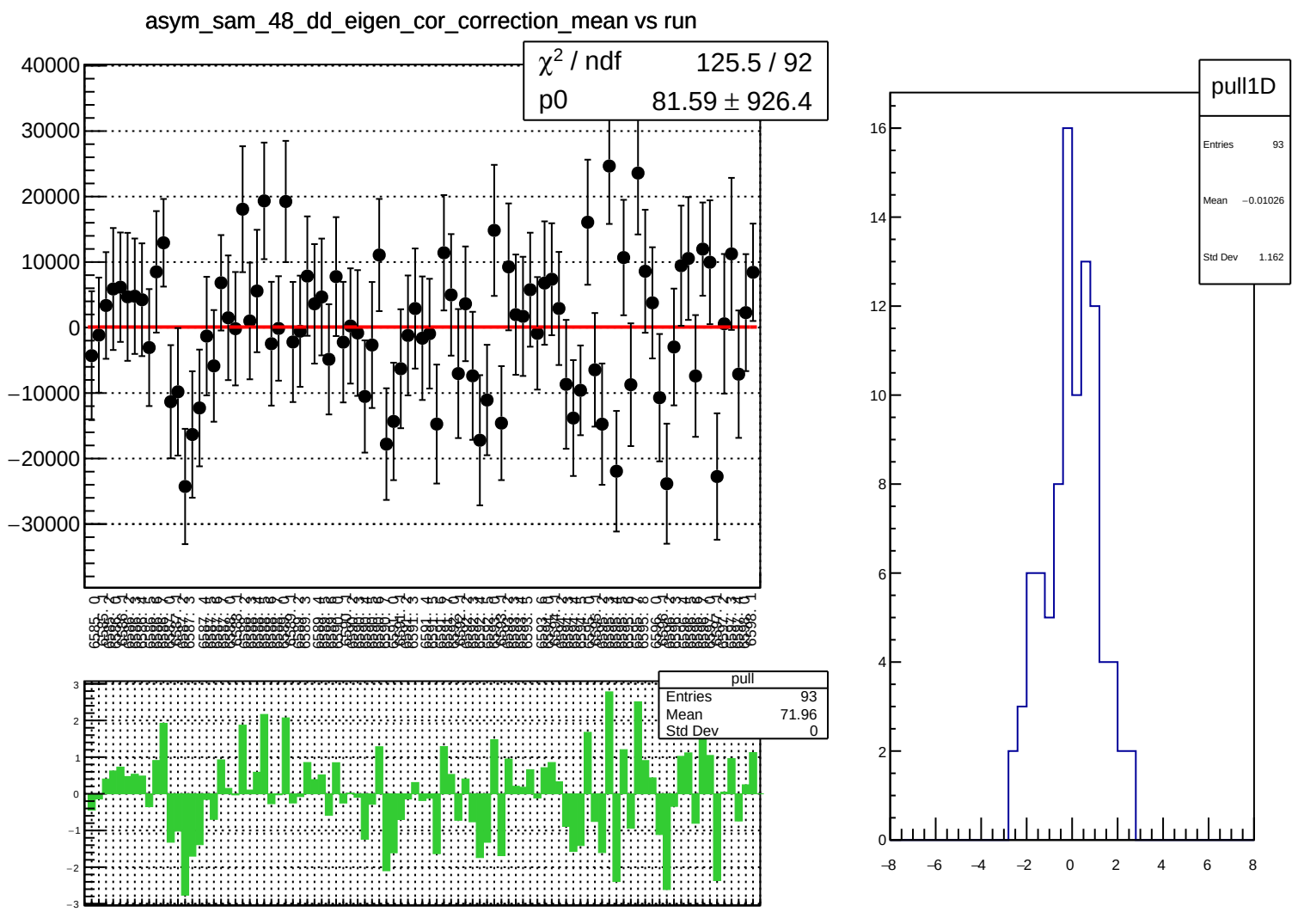

pull1D
Entries 93
Mean −0.01026
Std Dev 1.162

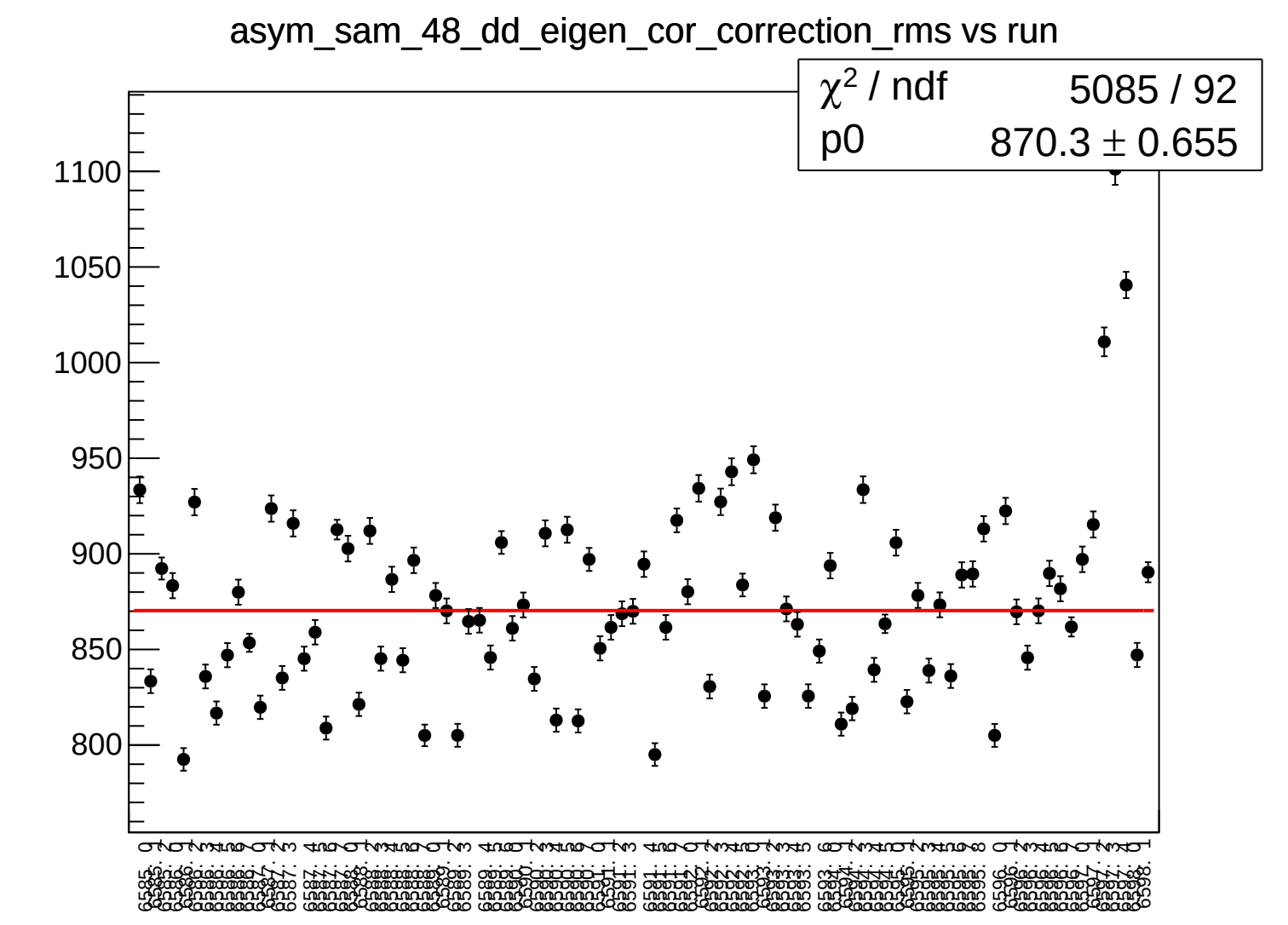

asym_sam_48_dd_cor_correction_rms vs run
χ^2 / ndf 5085 / 92
p0 870.3 ± 0.655
1100
1050
1000
950
900
850
800

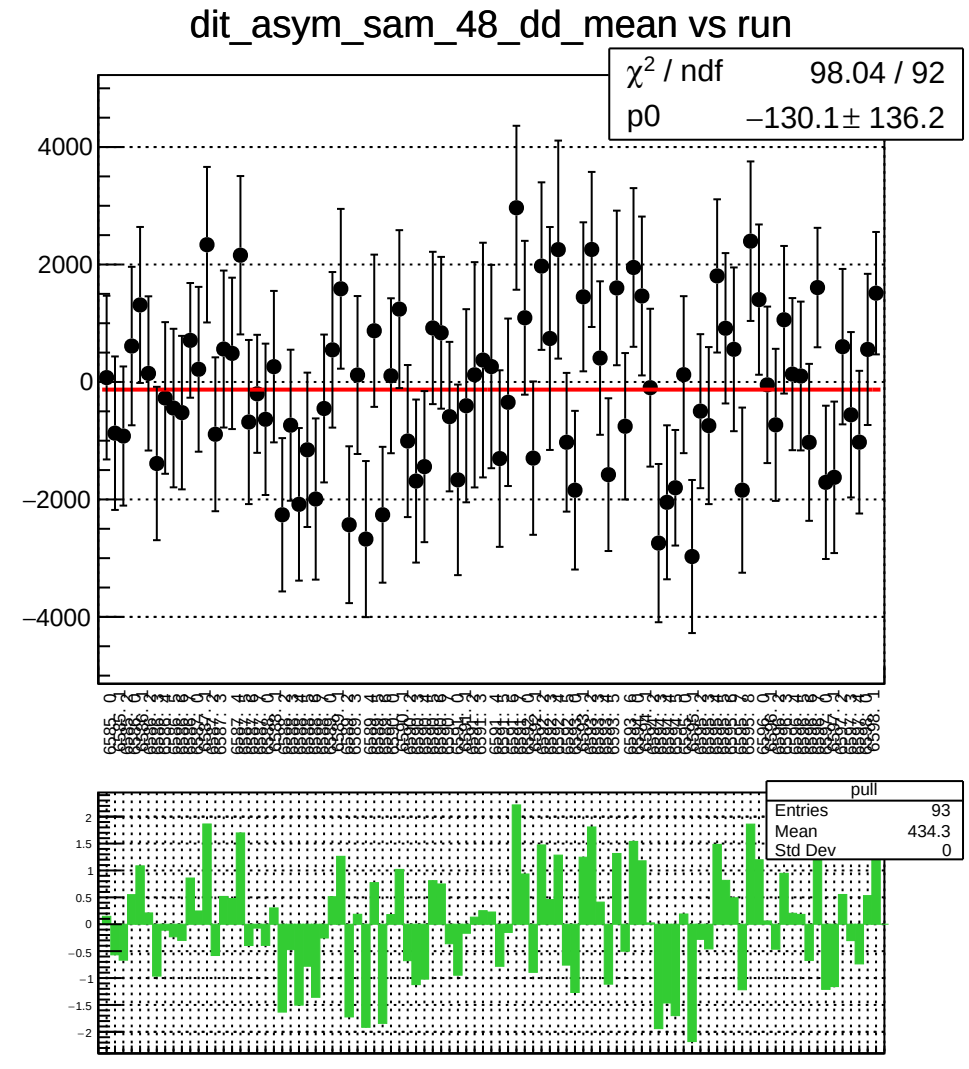

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 87.88 / 92
p0 −194.7 ± 120.8
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 2.979e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

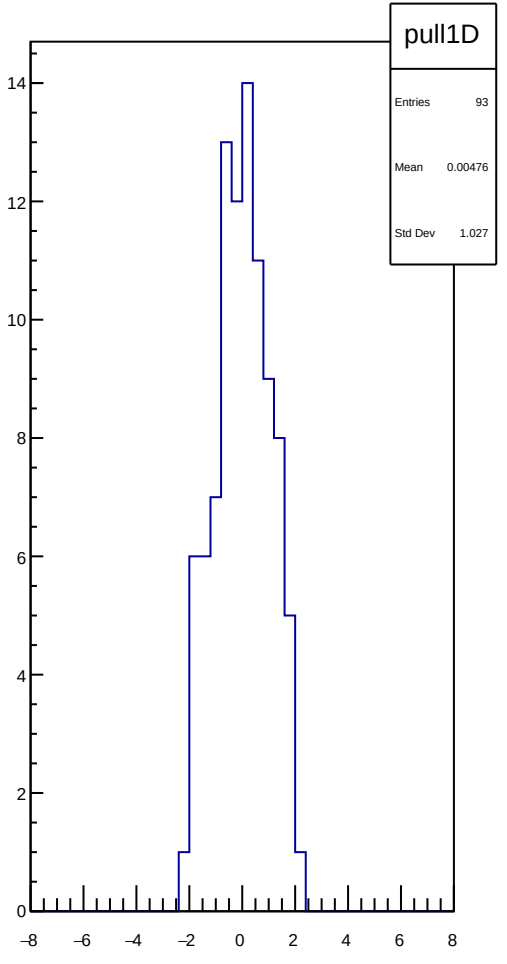

pull1D
Entries 93
Mean 0.0001071
Std Dev 0.9721
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

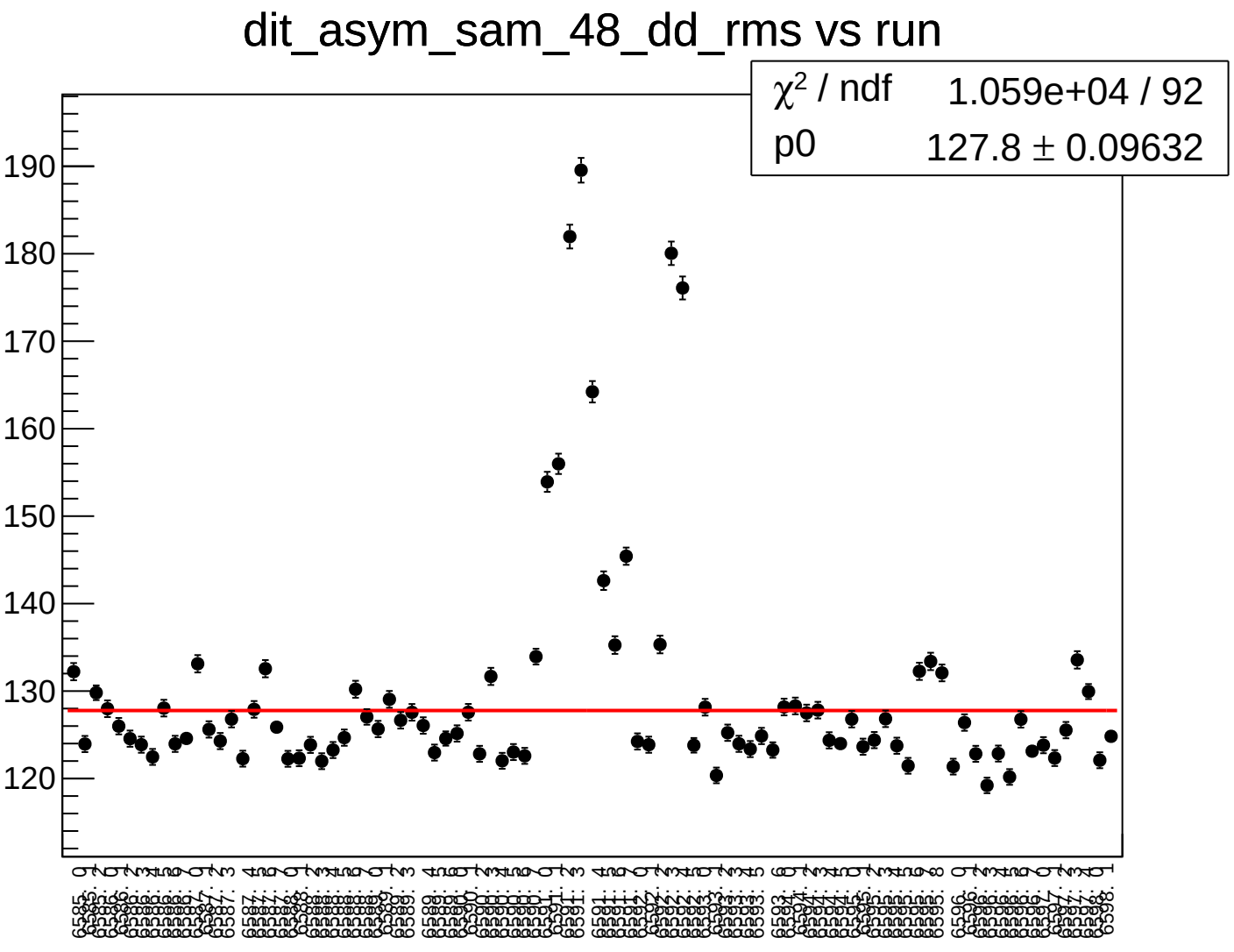

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 4580 / 92
p0 113.6 ± 0.08545
140
135
130
125
120
115
110
105

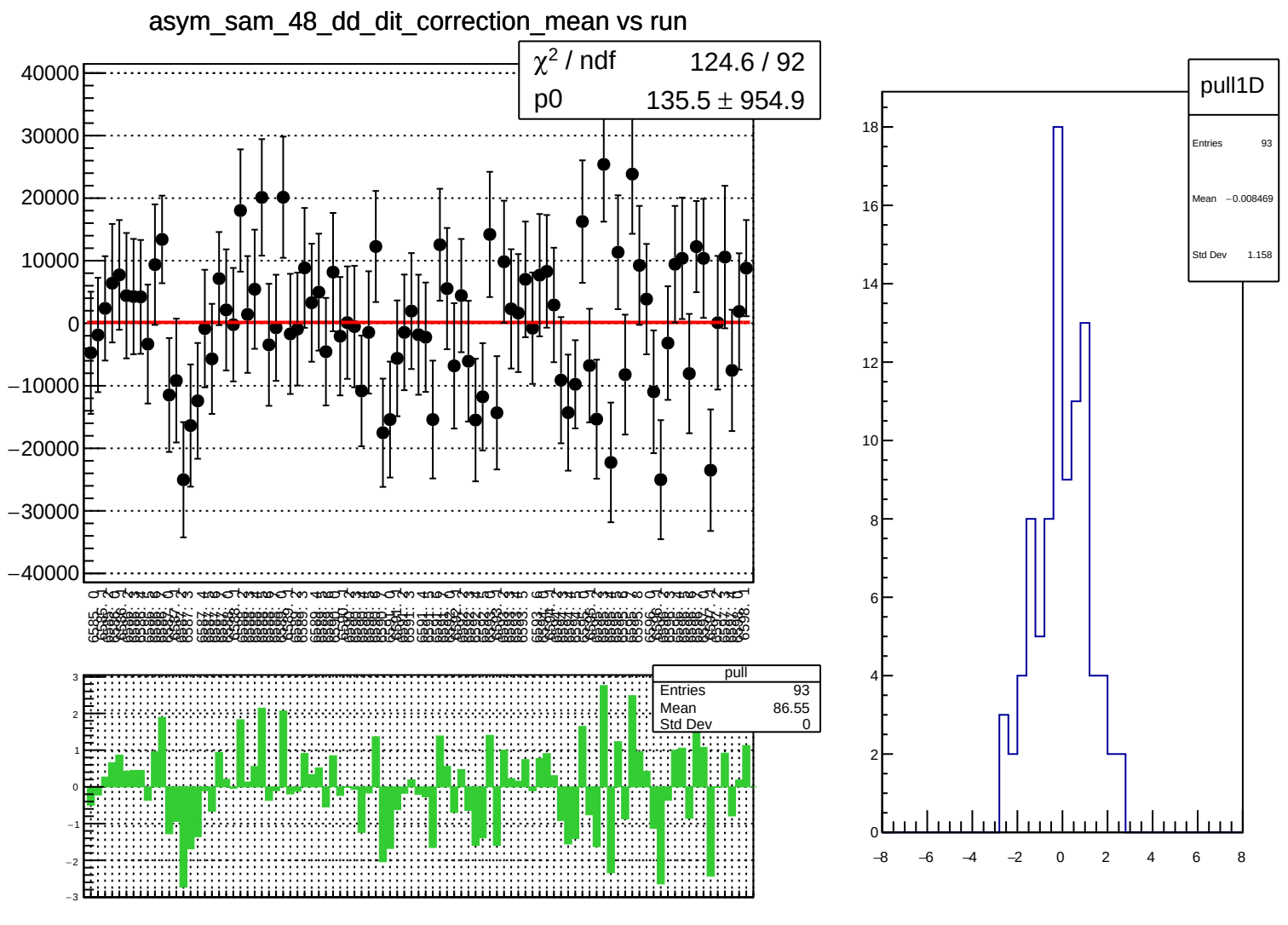

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 125.5 / 92
p0 81.59 ± 926.4
pull
Entries 93
Mean 71.96
Std Dev 0
pull1D
Entries 93
Mean −0.01026
Std Dev 1.162

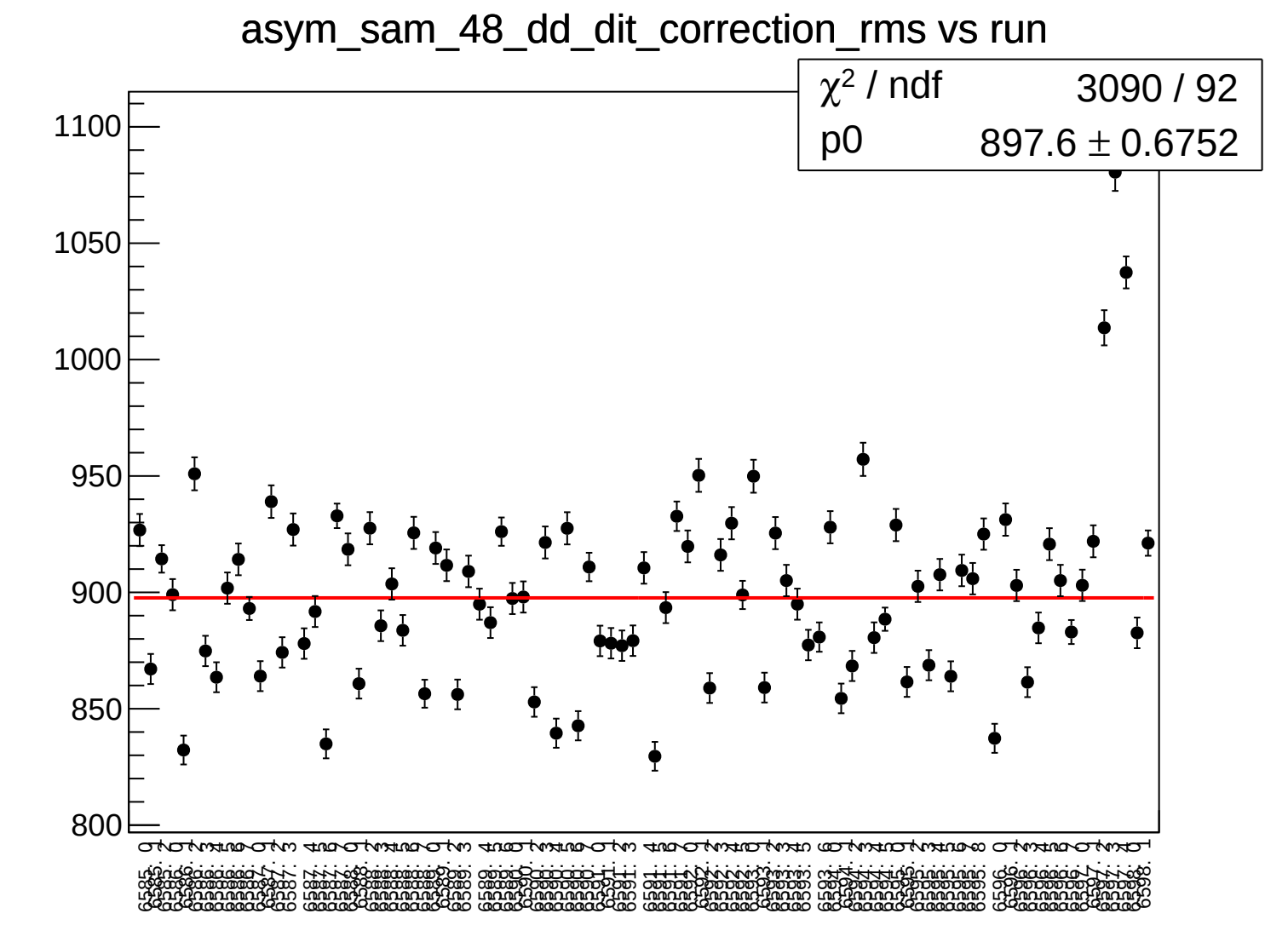

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 5085 / 92
p0 870.3 ± 0.655
1100
1050
1000
950
900
850
800

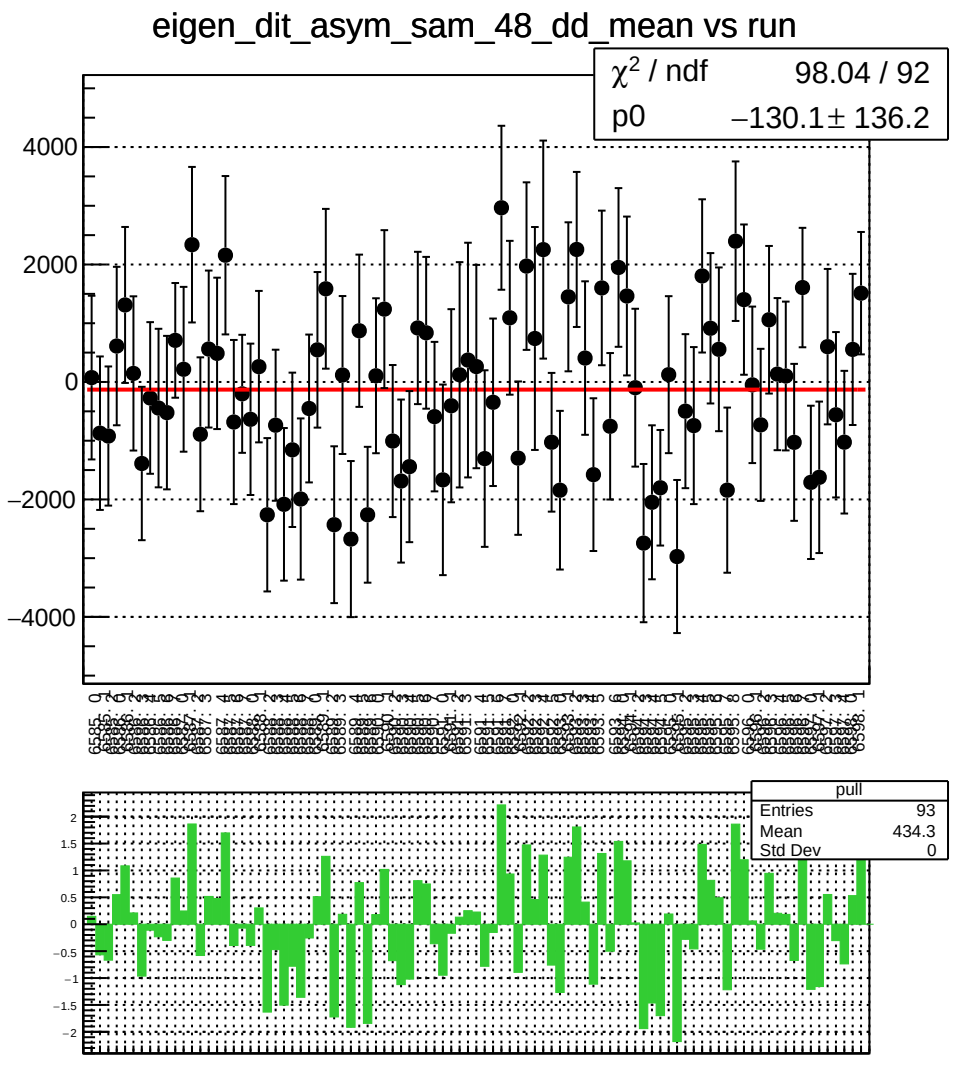

dit_asym_sam_48_dd_mean vs run
χ² / ndf 98.04 / 92
p0 −130.1± 136.2
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 434.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

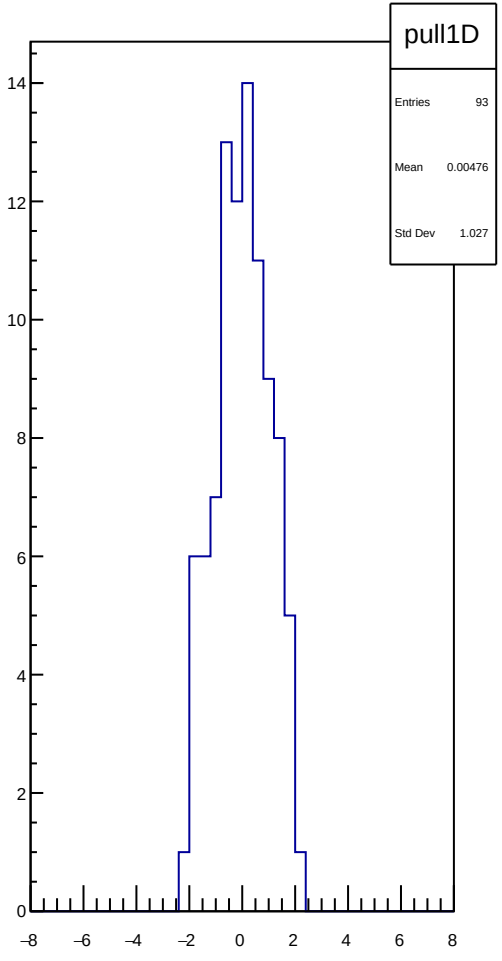

pull1D
Entries 93
Mean 0.00476
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

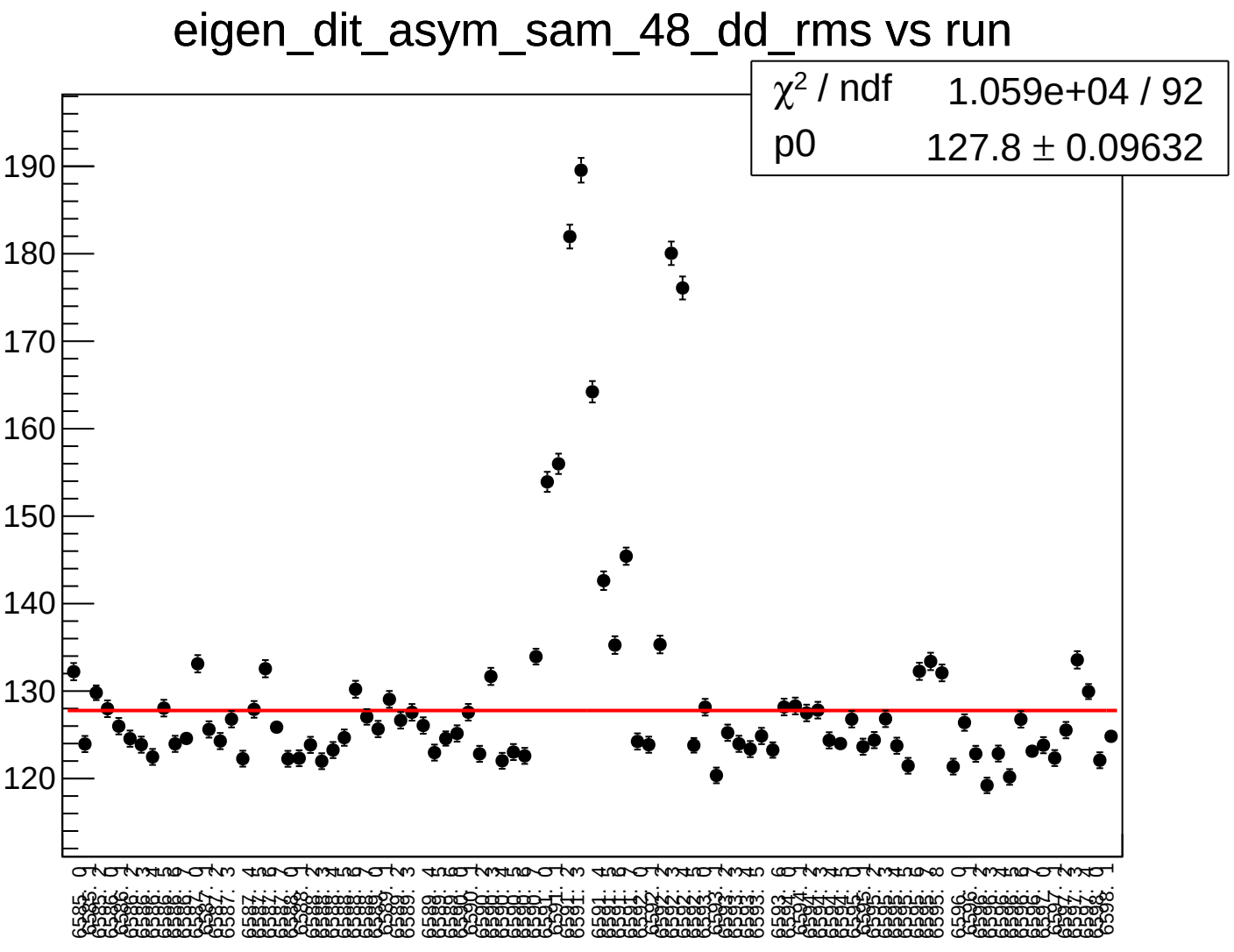

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.059e+04 / 92
p0 127.8 ± 0.09632
190
180
170
160
150
140
130
120

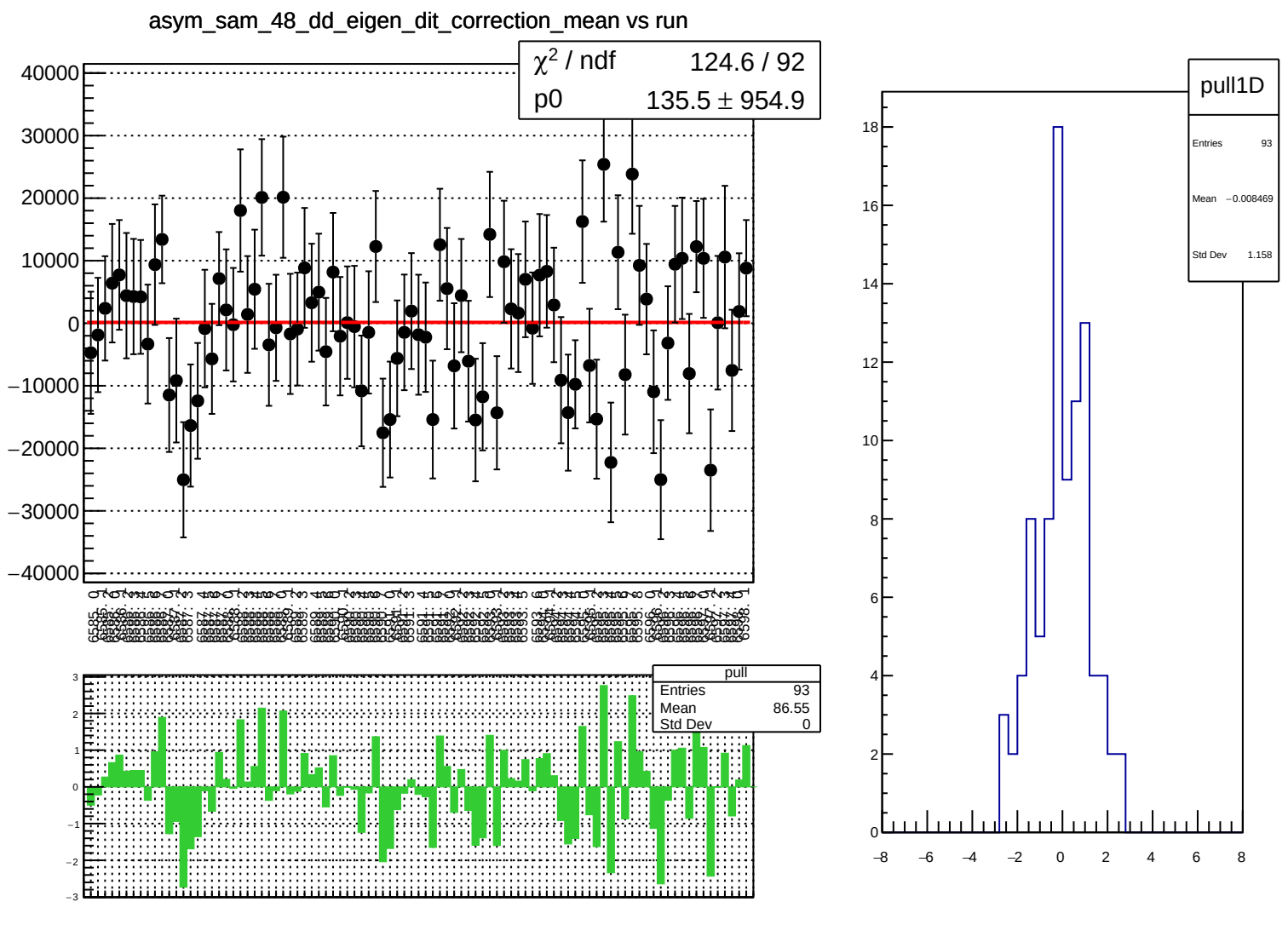

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 124.6 / 92
p0 135.5 ± 954.9
pull
Entries 93
Mean 86.55
Std Dev 0
pull1D
Entries 93
Mean −0.008469
Std Dev 1.158

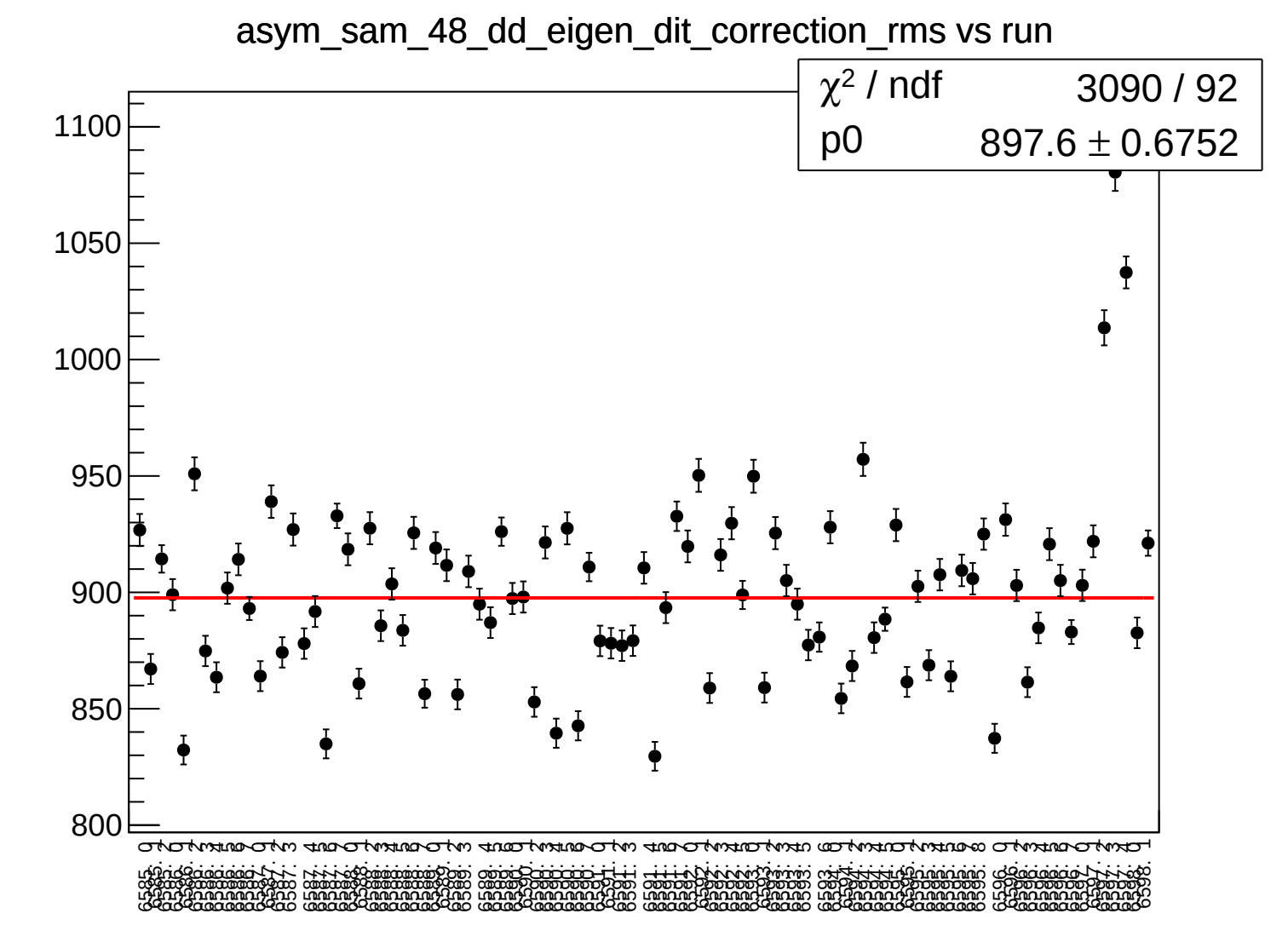

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 3090 / 92
p0 897.6 ± 0.6752
1100
1050
1000
950
900
850
800

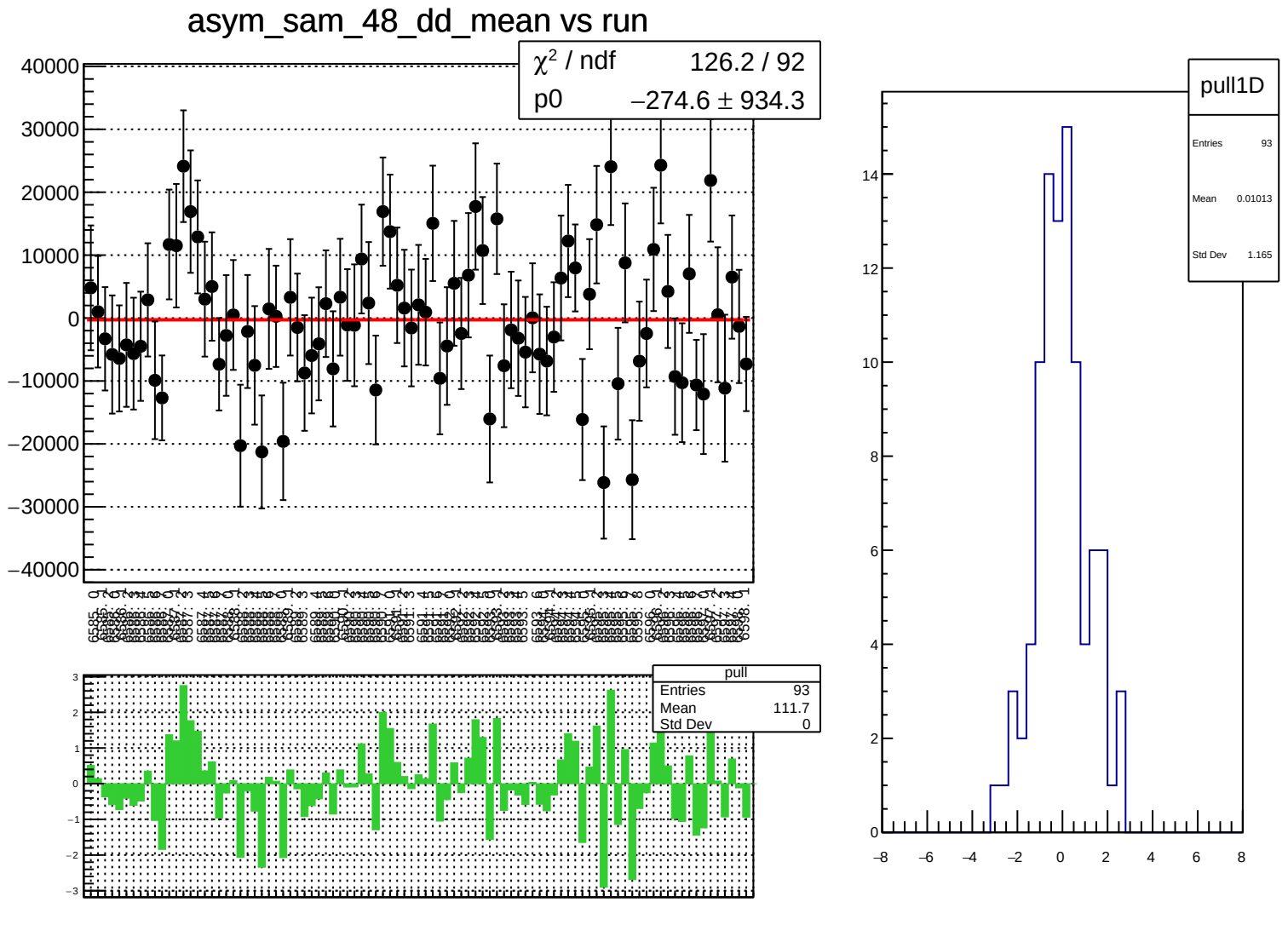

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 98.04 / 92
p0 −130.1± 136.2
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 434.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

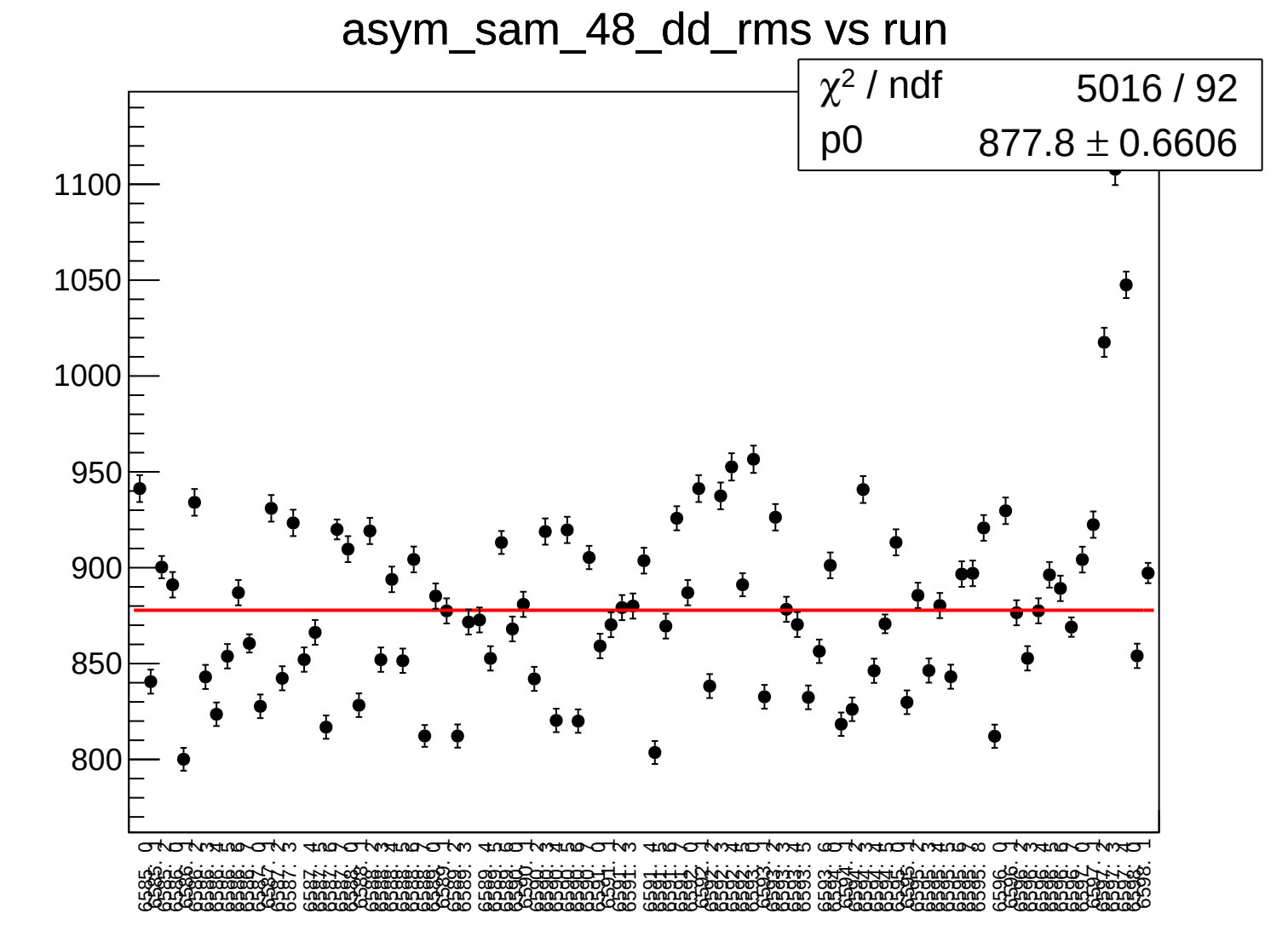

pull1D
Entries 93
Mean 0.00476
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

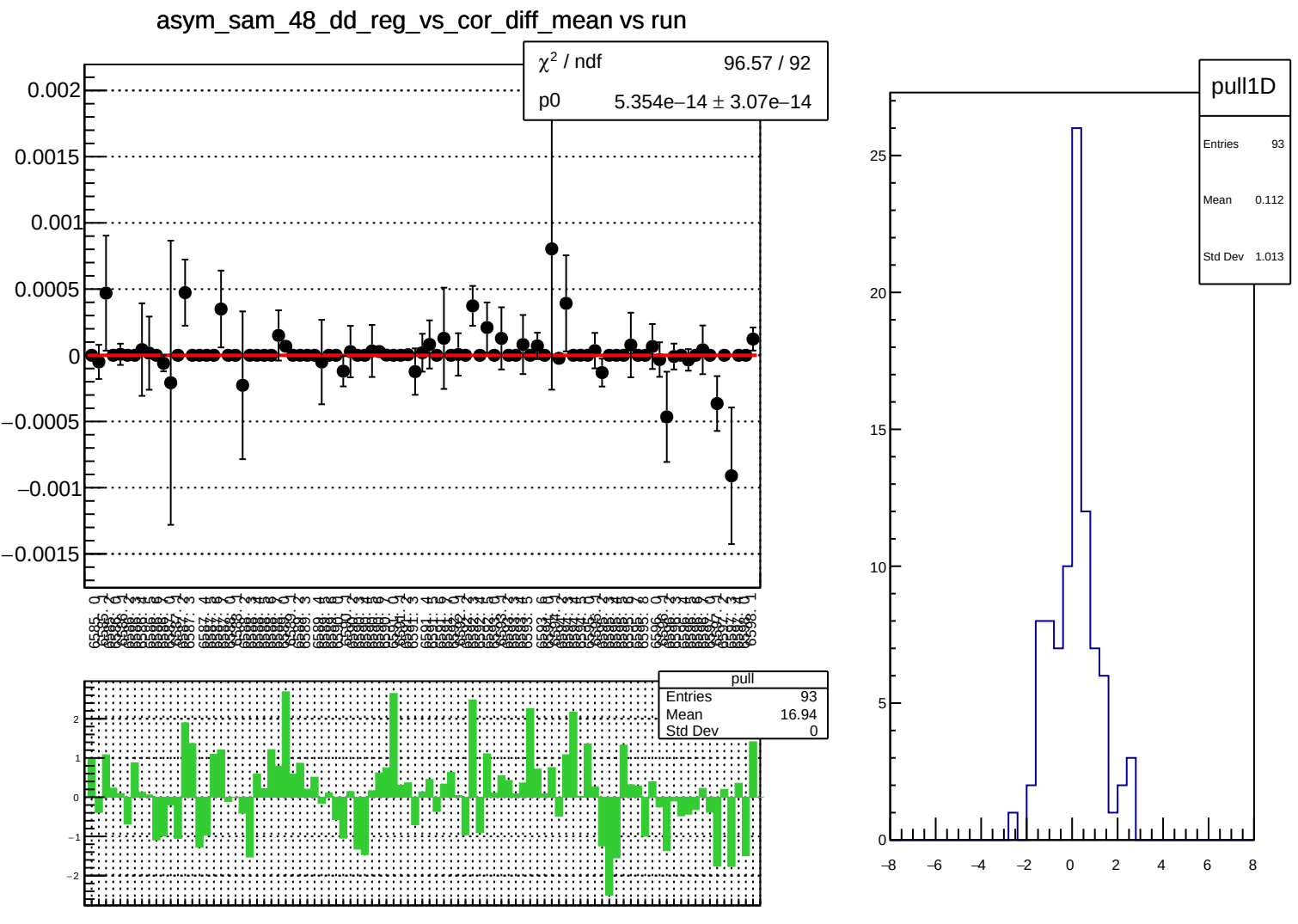

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.059e+04 / 92
p0 127.8 ± 0.09632
190
180
170
160
150
140
130
120

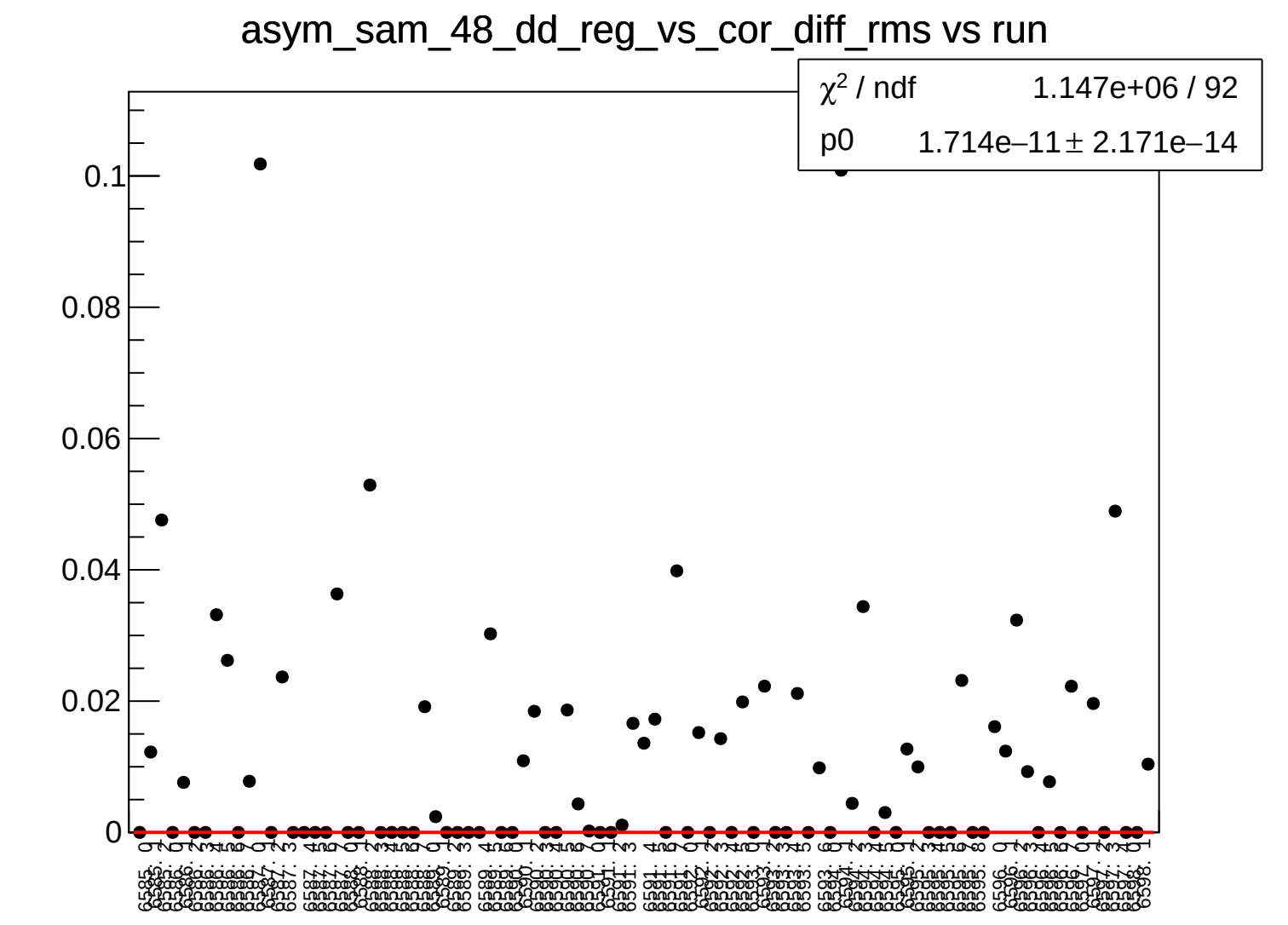

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 124.6 / 92
p0 135.5 ± 954.9
pull
Entries 93
Mean 86.55
Std Dev 0
pull1D
Entries 93
Mean −0.008469
Std Dev 1.158

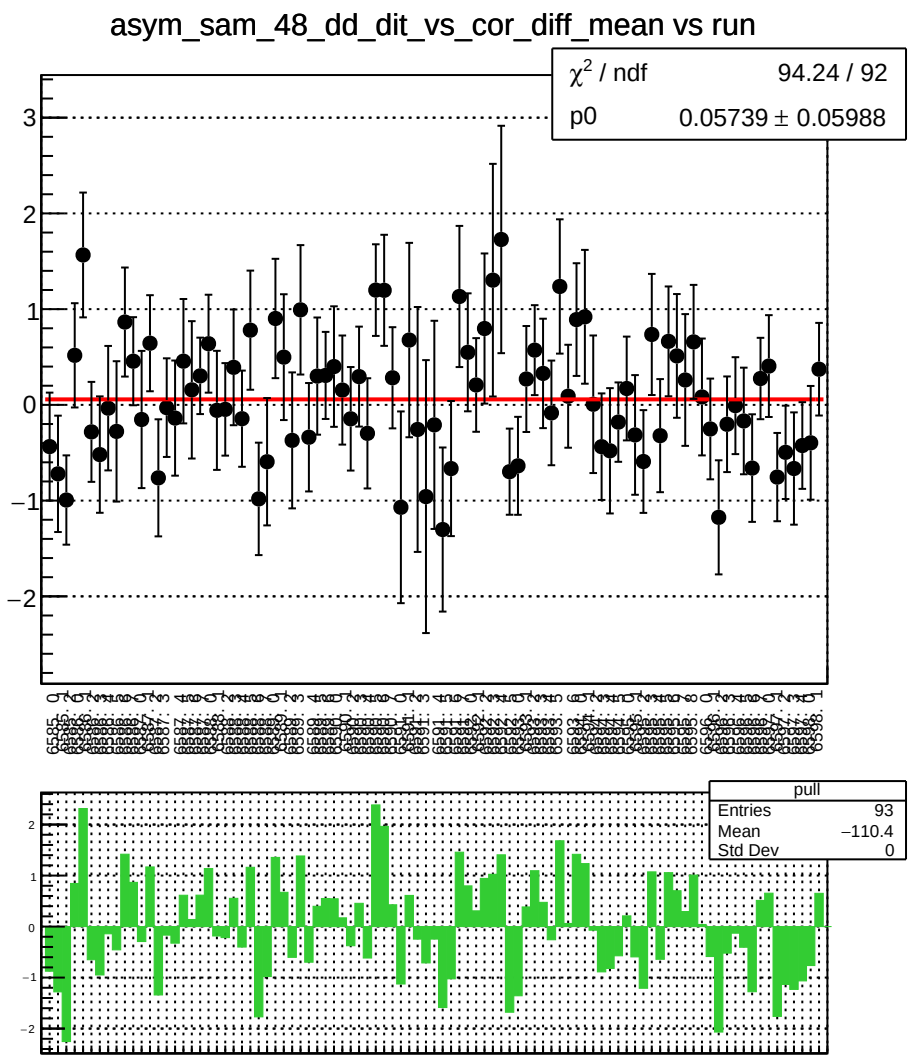

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3090 / 92
p0 897.6 ± 0.6752
1100
1050
1000
950
900
850
800

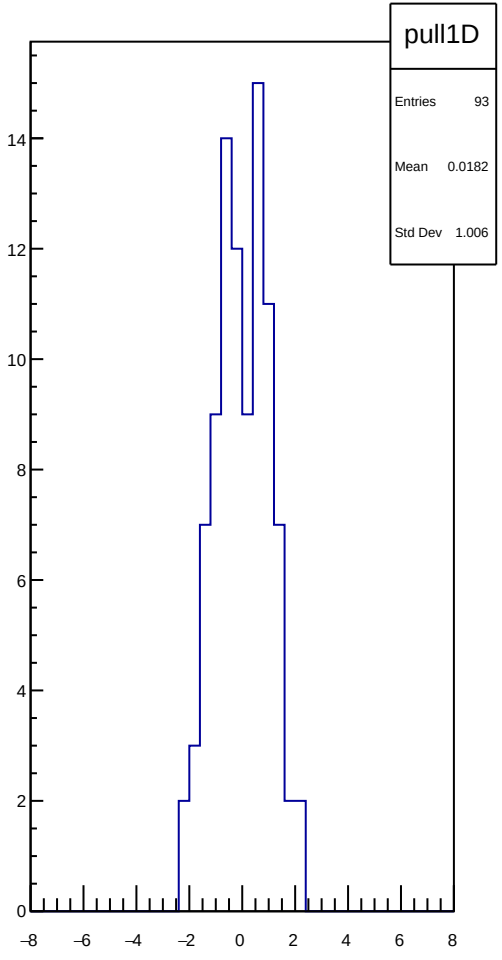

asym_sam_48_dd_mean vs run
χ² / ndf 126.2 / 92
p0 −274.6 ± 934.3
pull
Entries 93
Mean 111.7
Std Dev 0
pull1D
Entries 93
Mean 0.01013
Std Dev 1.165

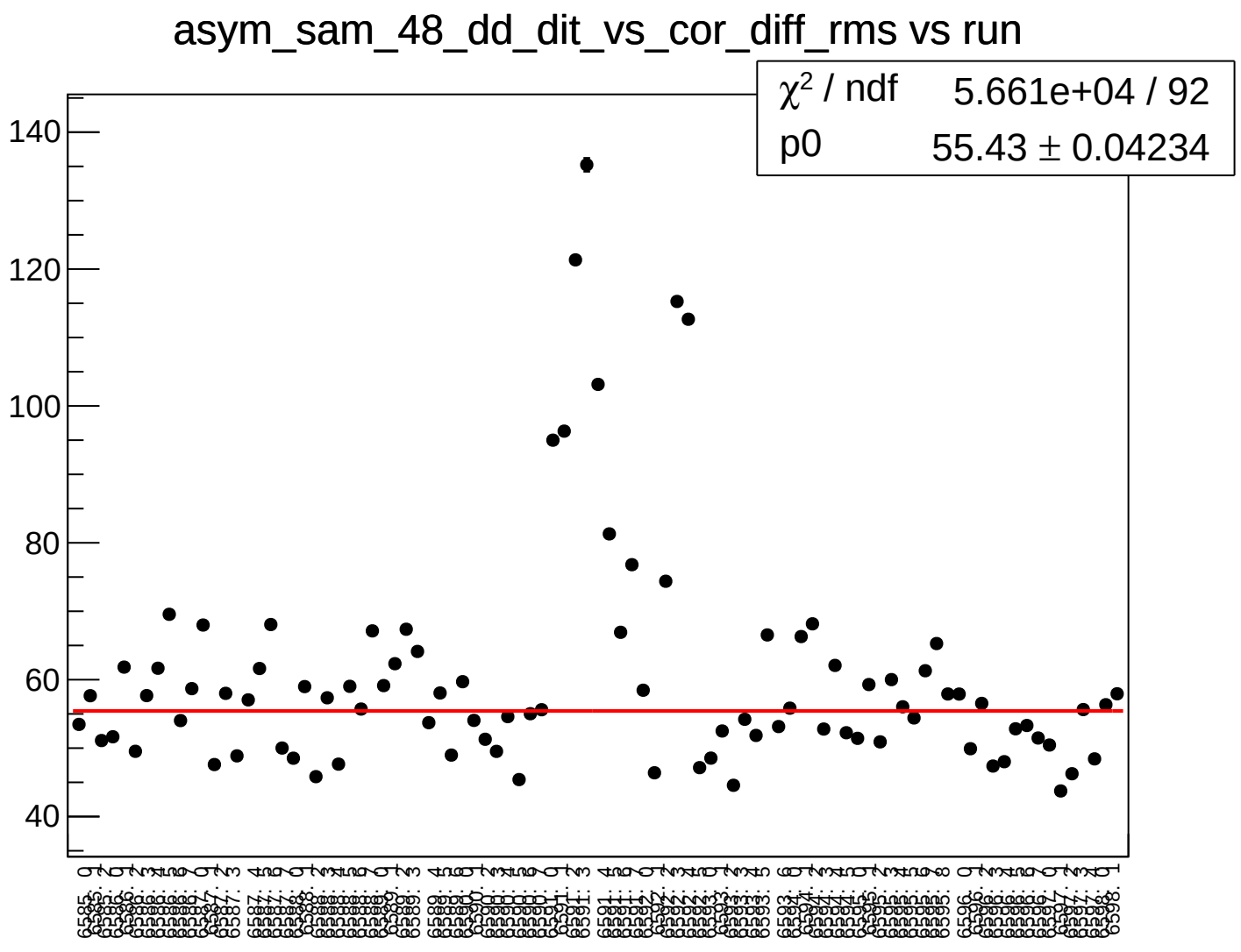

asym_sam_48_dd_rms vs run
χ² / ndf 5016 / 92
p0 877.8 ± 0.6606
1100
1050
1000
950
900
850
800

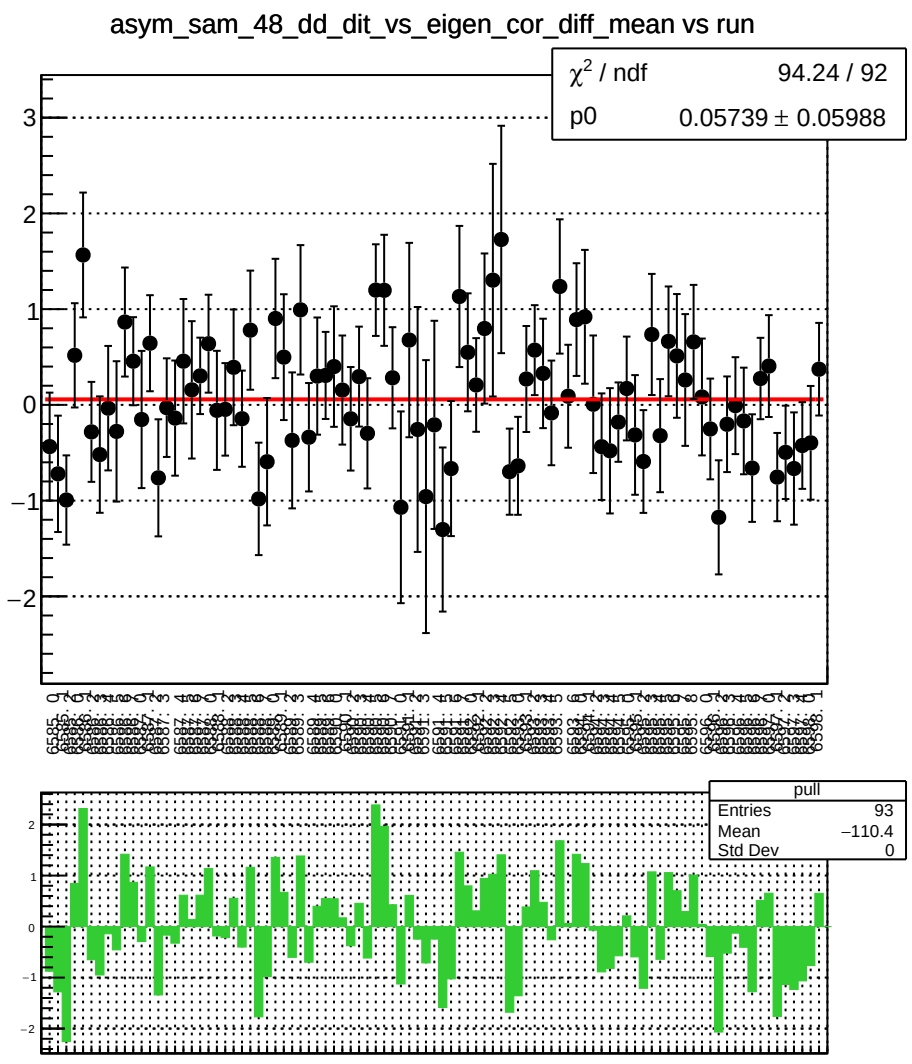

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.57 / 92
p0 5.354e−14 ± 3.07e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 16.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.112
Std Dev 1.013
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

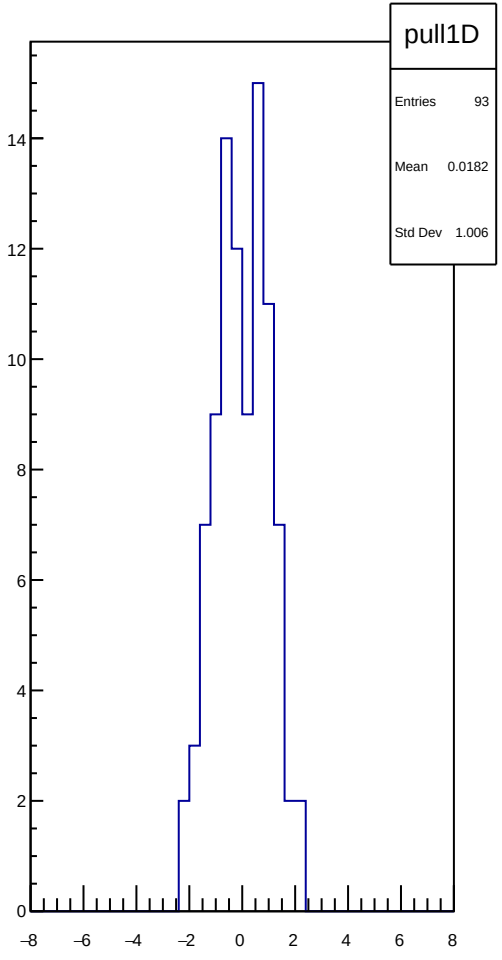

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 92
p0 1.714e−11 ± 2.171e−14
0.1
0.08
0.06
0.04
0.02
0

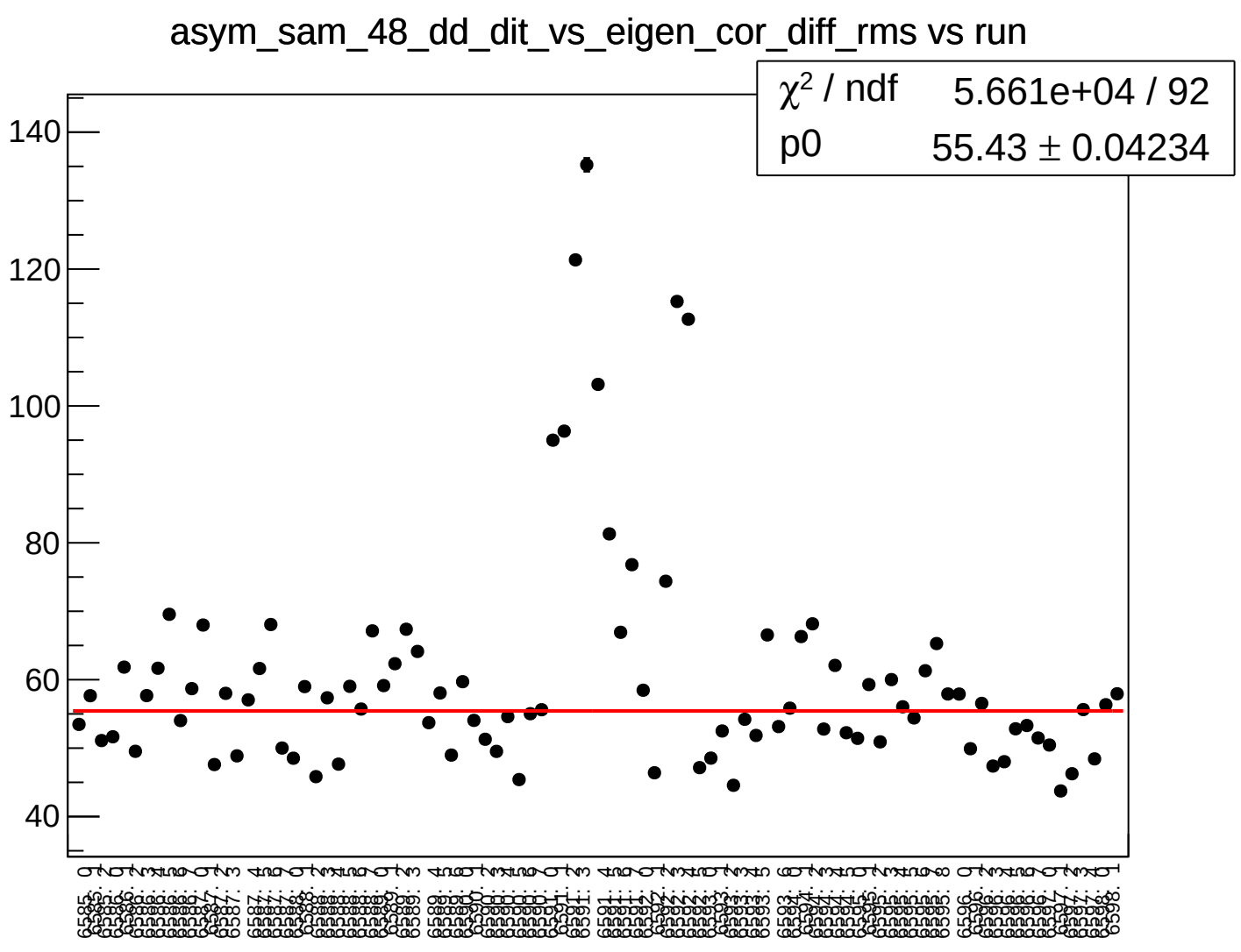

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.24 / 92
p0 0.05739 ± 0.05988
pull
Entries 93
Mean −110.4
Std Dev 0

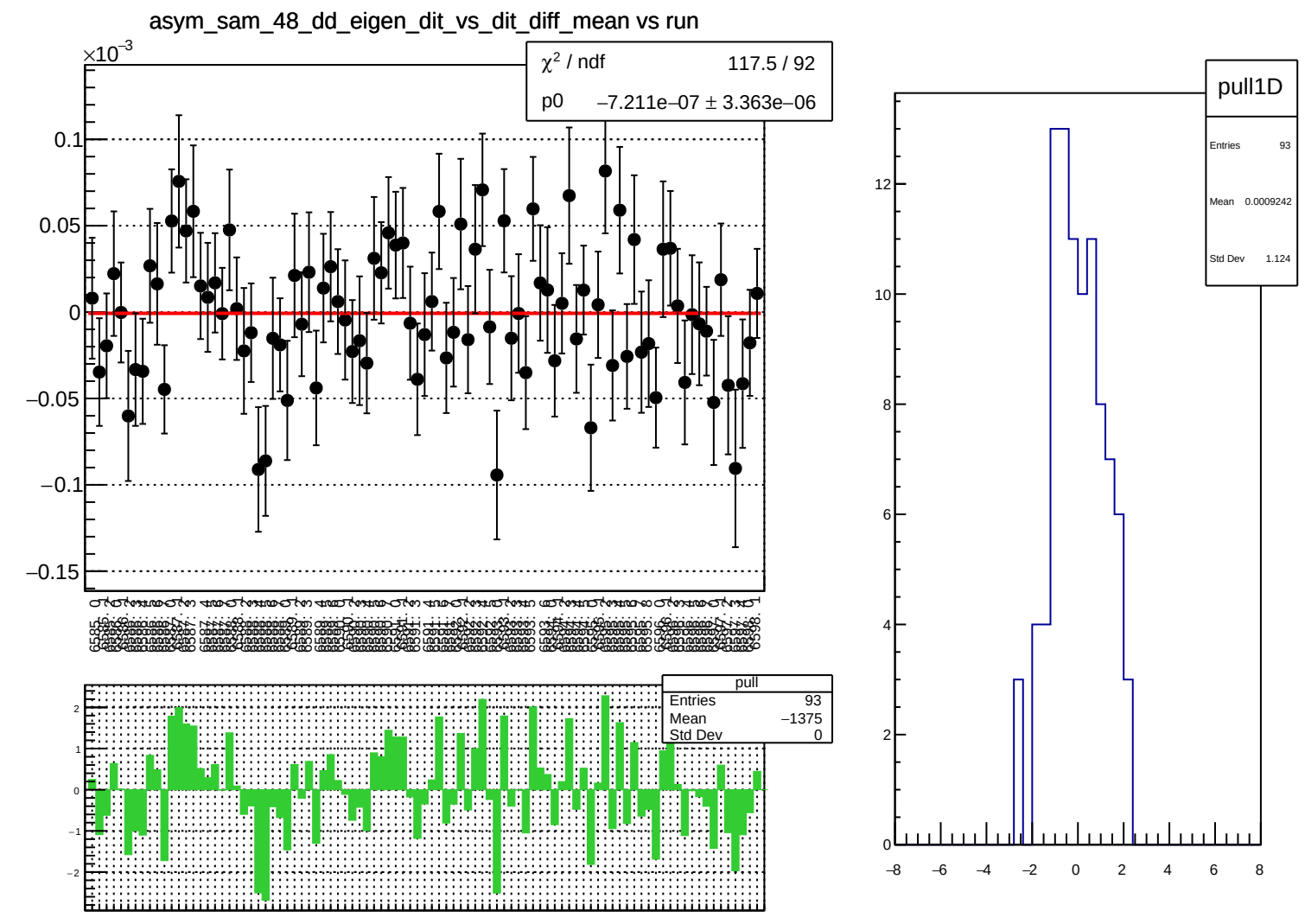

pull1D
Entries 93
Mean 0.0182
Std Dev 1.006

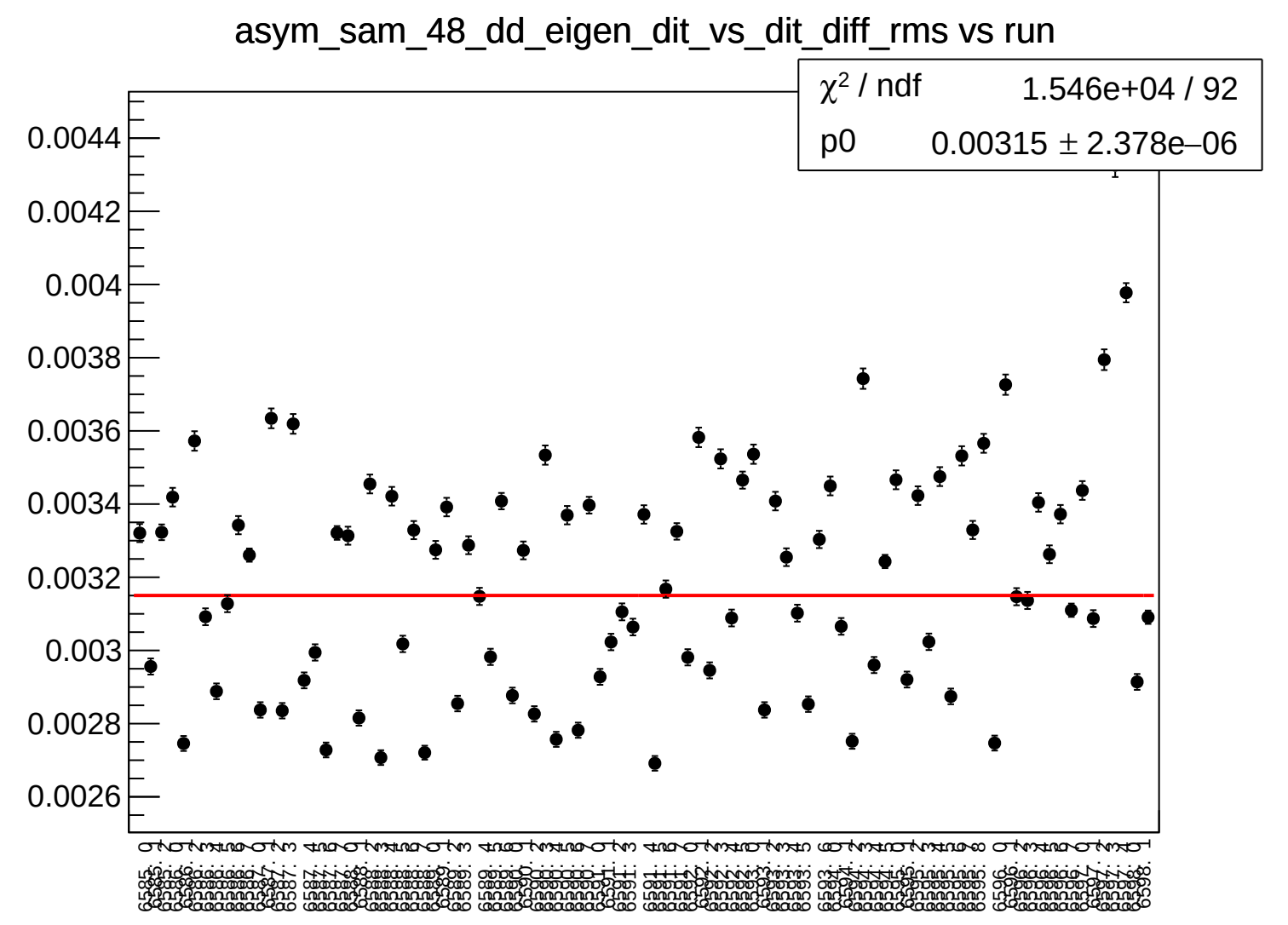

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.661e+04 / 92
p0 55.43 ± 0.04234
140
120
100
80
60
40

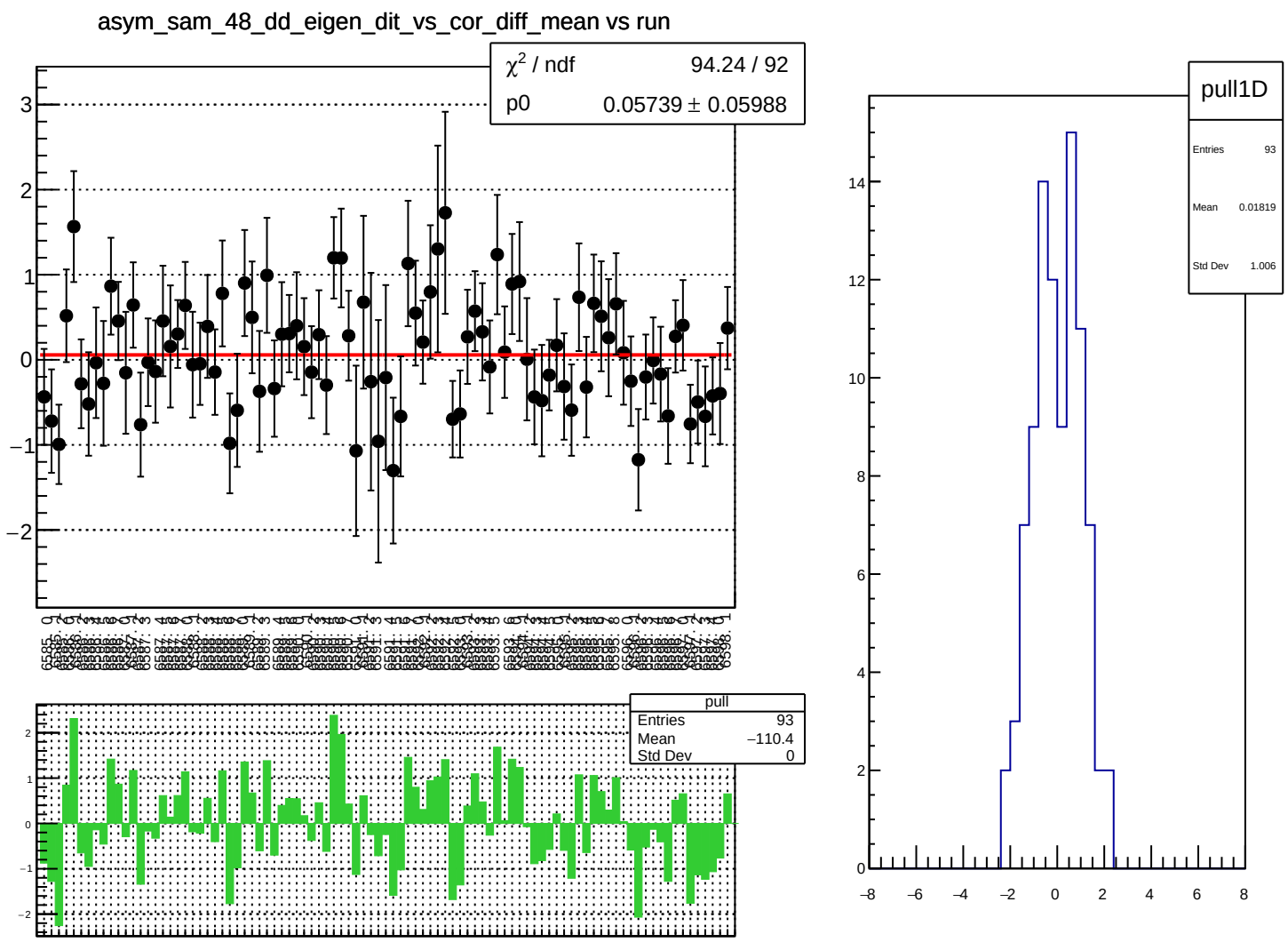

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.24 / 92
p0 0.05739 ± 0.05988
pull
Entries 93
Mean −110.4
Std Dev 0

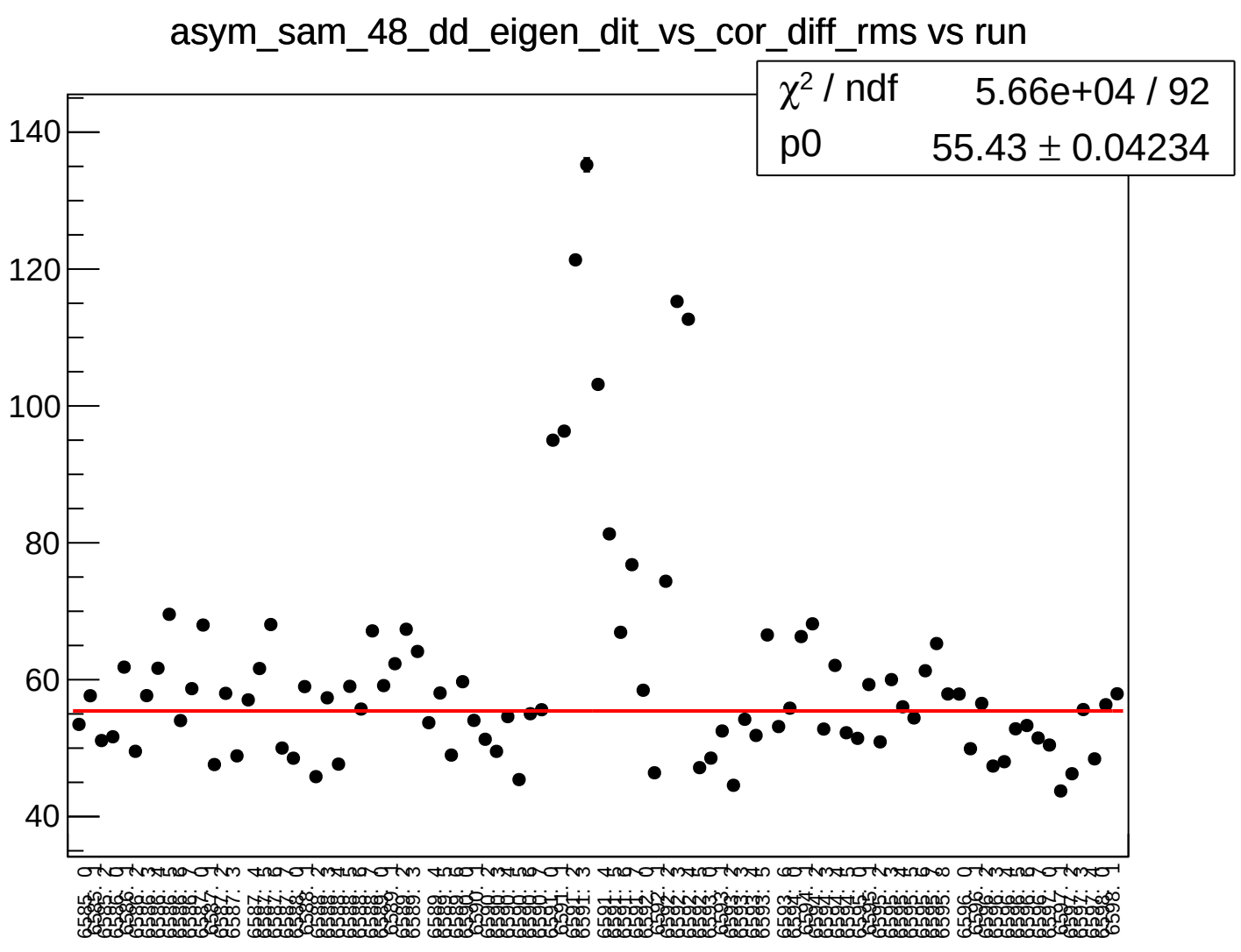

pull1D
Entries 93
Mean 0.0182
Std Dev 1.006

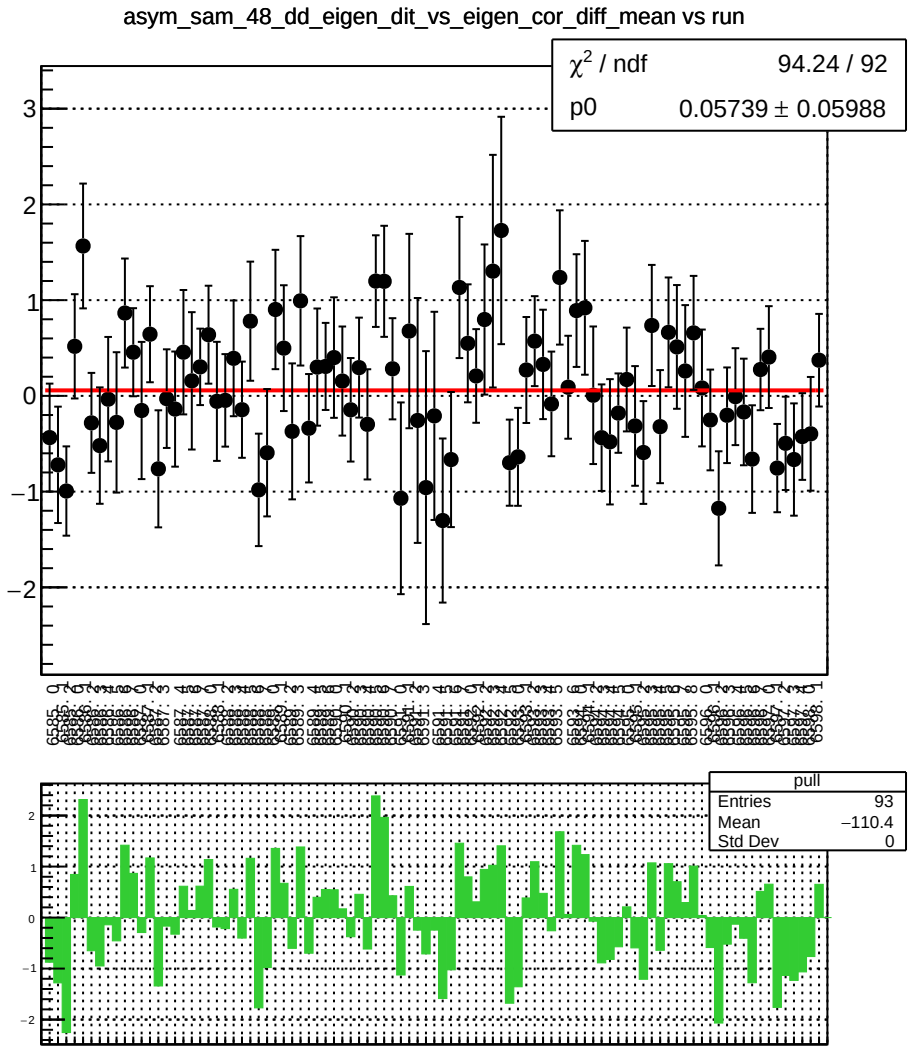

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.661e+04 / 92
p0 55.43 ± 0.04234
140
120
100
80
60
40

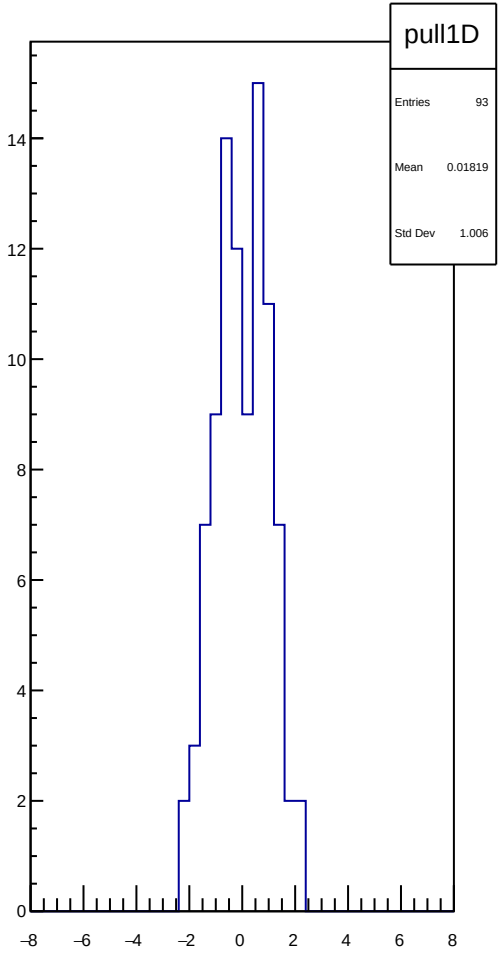

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 117.5 / 92
p0 −7.211e−07 ± 3.363e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean −1375
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0009242
Std Dev 1.124
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

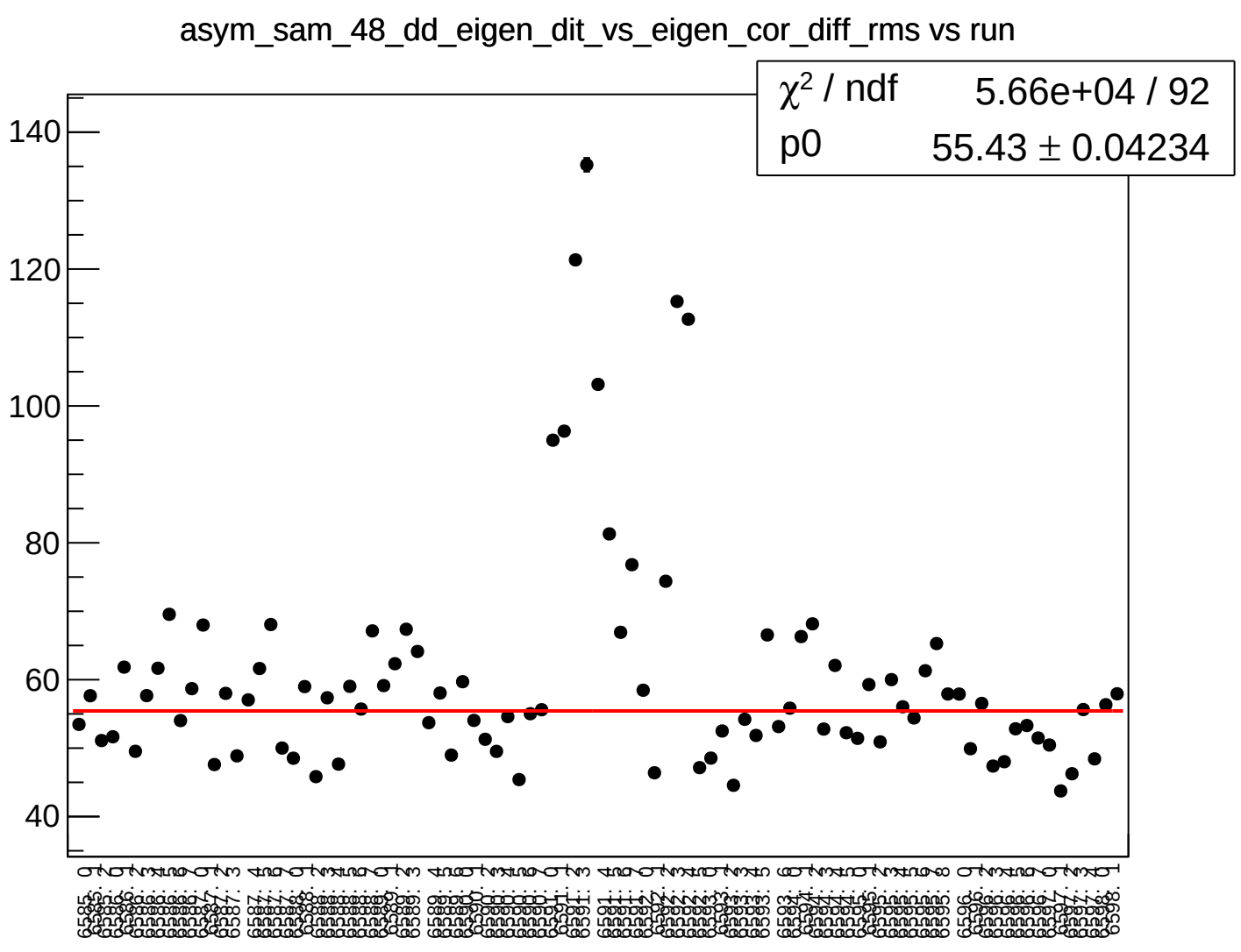

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.546e+04 / 92
p0 0.00315 ± 2.378e–06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

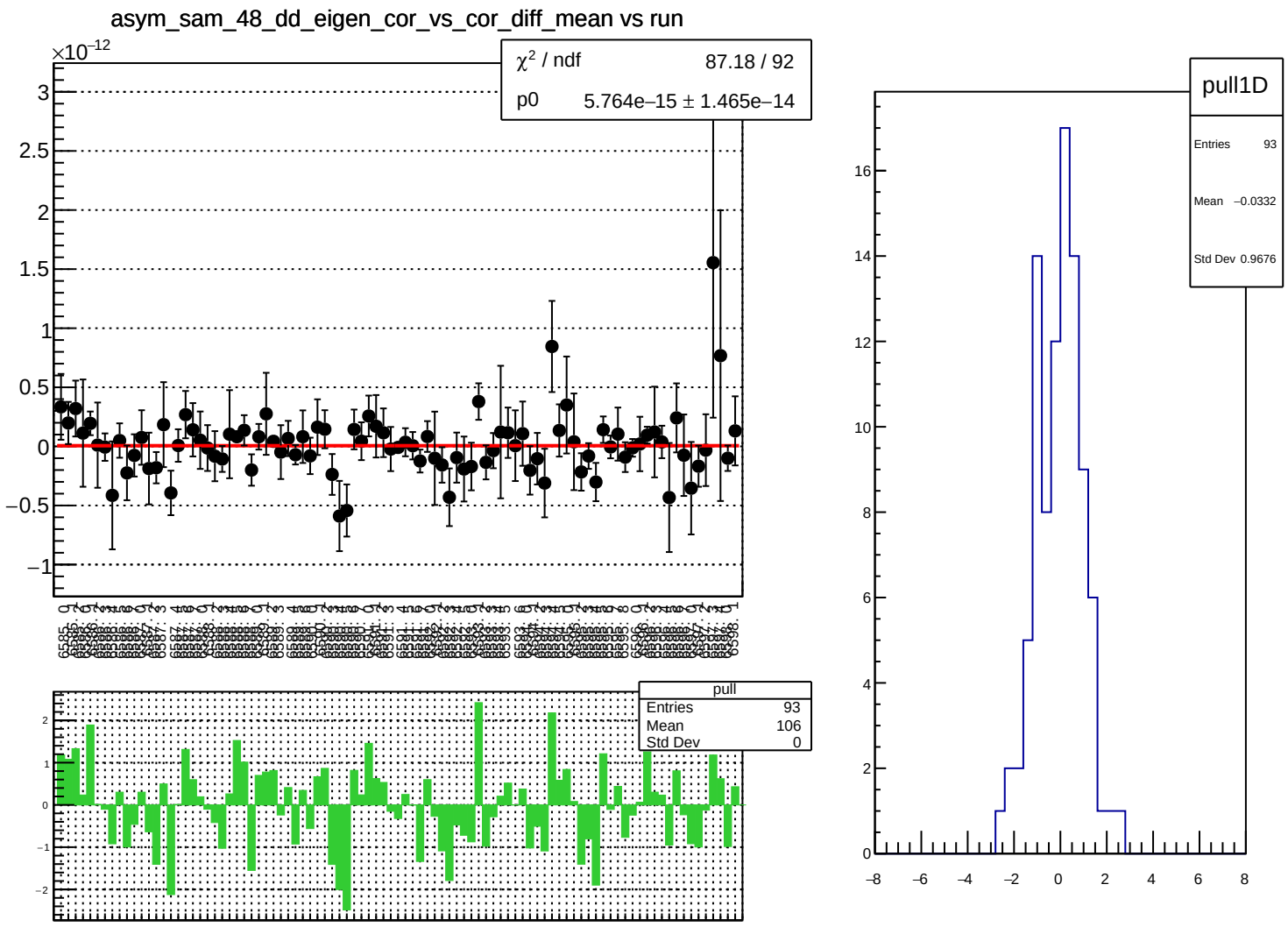

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.24 / 92
p0 0.05739 ± 0.05988
pull
Entries 93
Mean −110.4
Std Dev 0
pull1D
Entries 93
Mean 0.01819
Std Dev 1.006

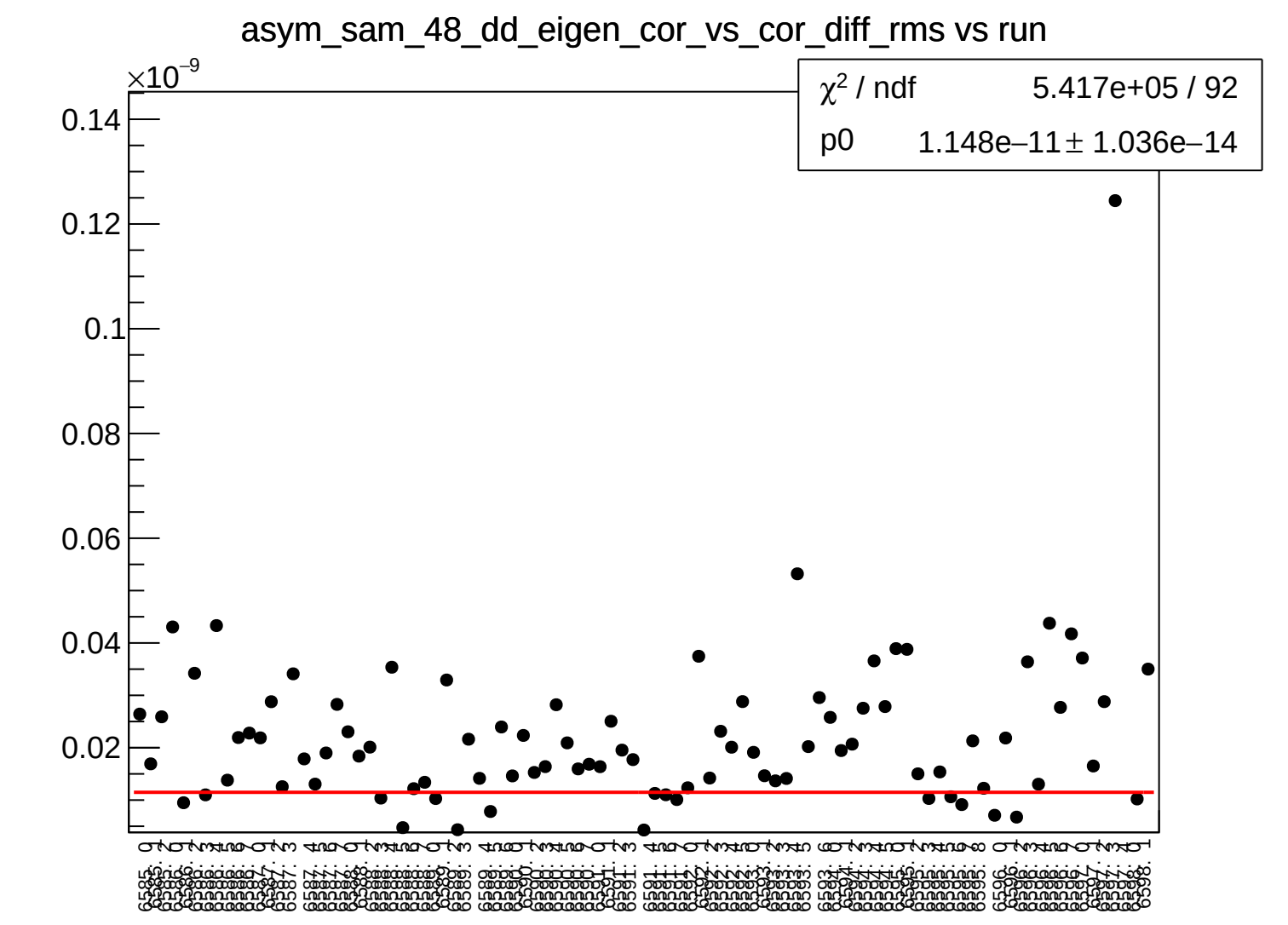

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.66e+04 / 92
p0 55.43 ± 0.04234
140
120
100
80
60
40

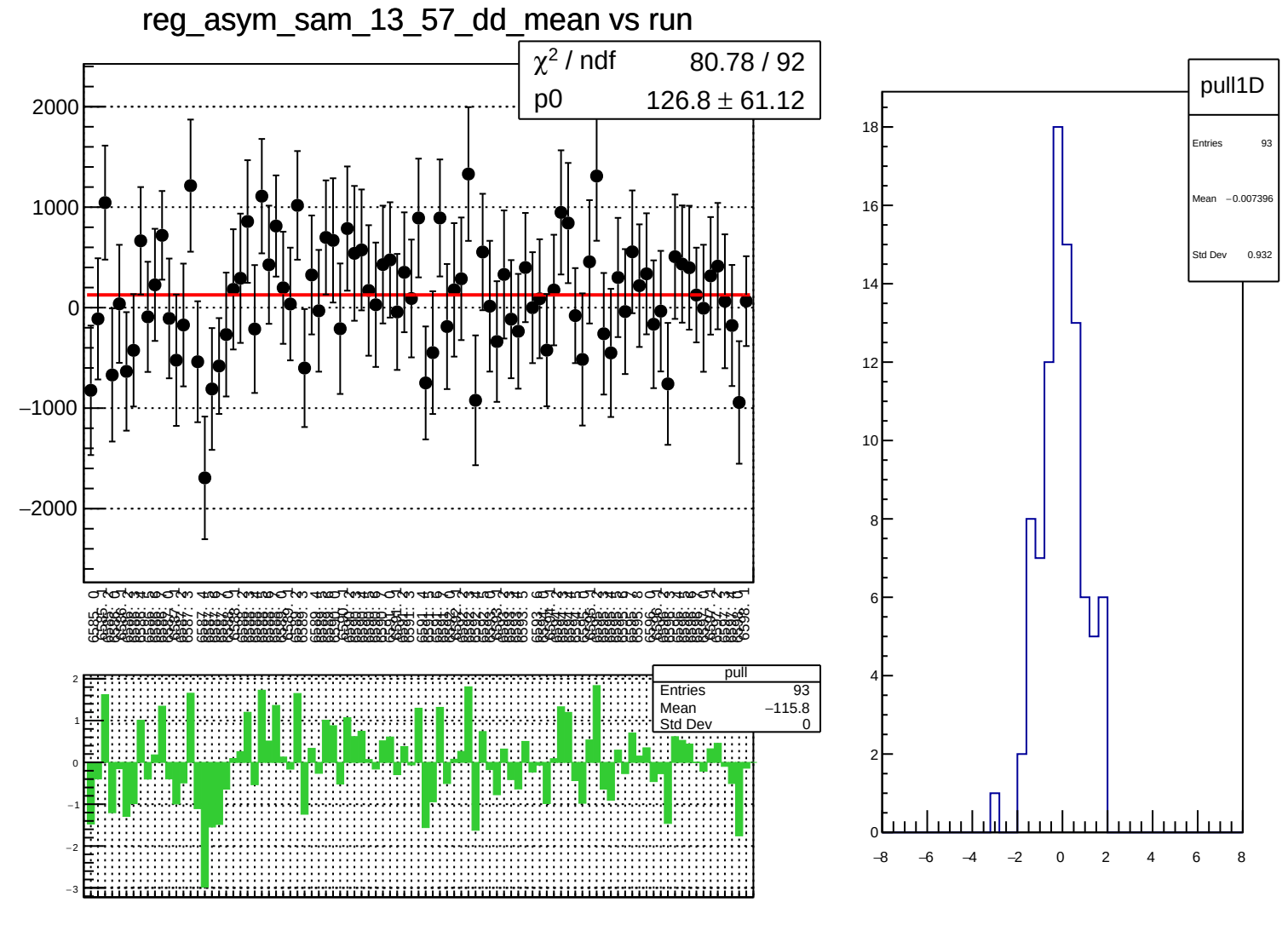

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.24 / 92
p0 0.05739 ± 0.05988
pull
Entries 93
Mean −110.4
Std Dev 0

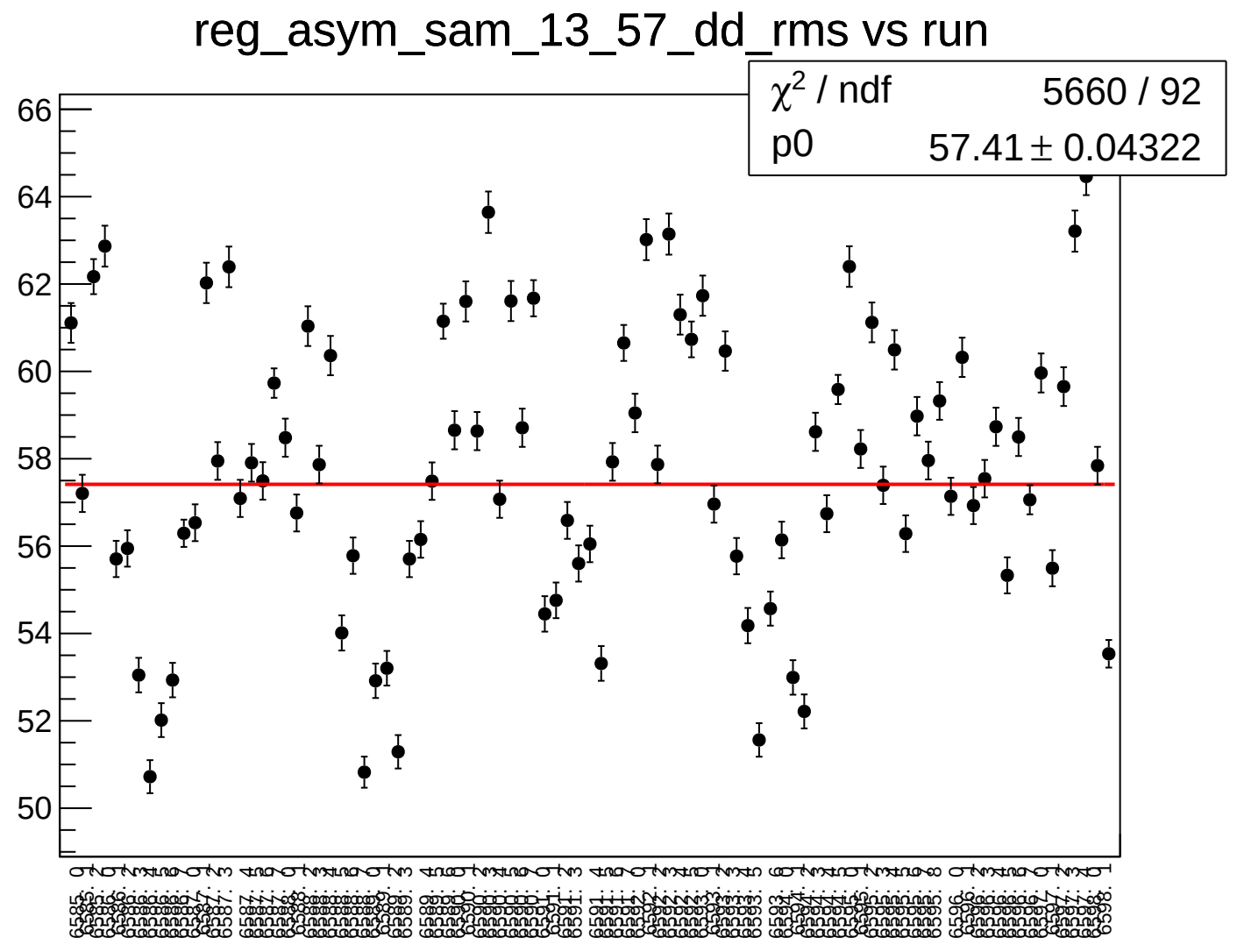

pull1D
Entries 93
Mean 0.01819
Std Dev 1.006

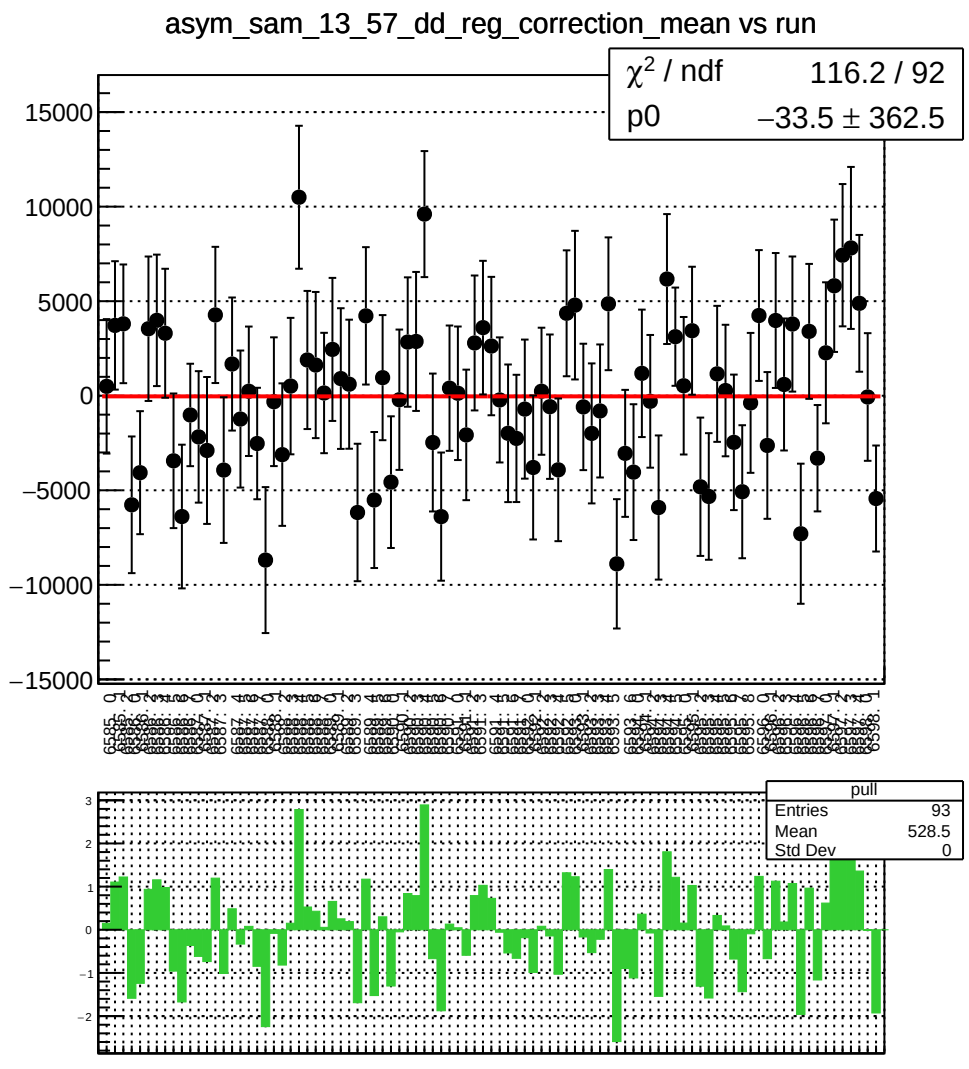

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.66e+04 / 92
p0 55.43 ± 0.04234
140
120
100
80
60
40

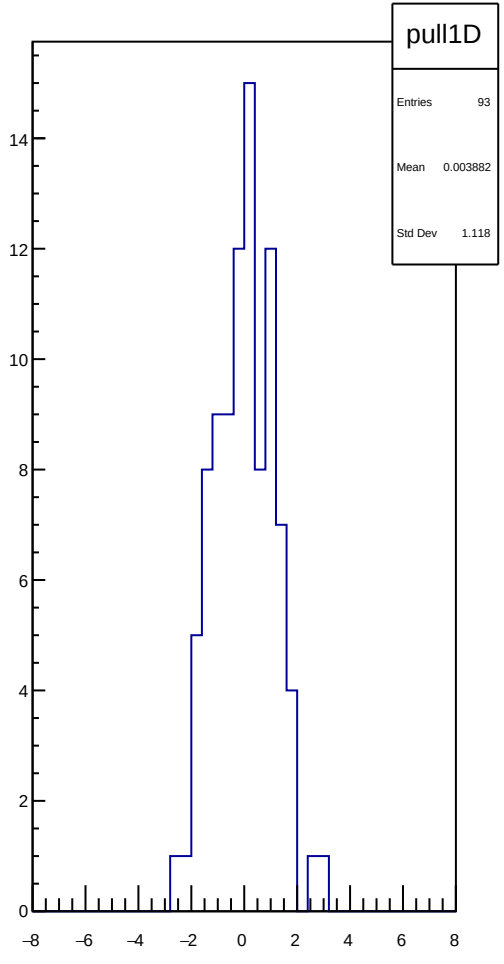

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.18 / 92
p0 5.764e−15 ± 1.465e−14
pull
Entries 93
Mean 106
Std Dev 0
pull1D
Entries 93
Mean −0.0332
Std Dev 0.9676

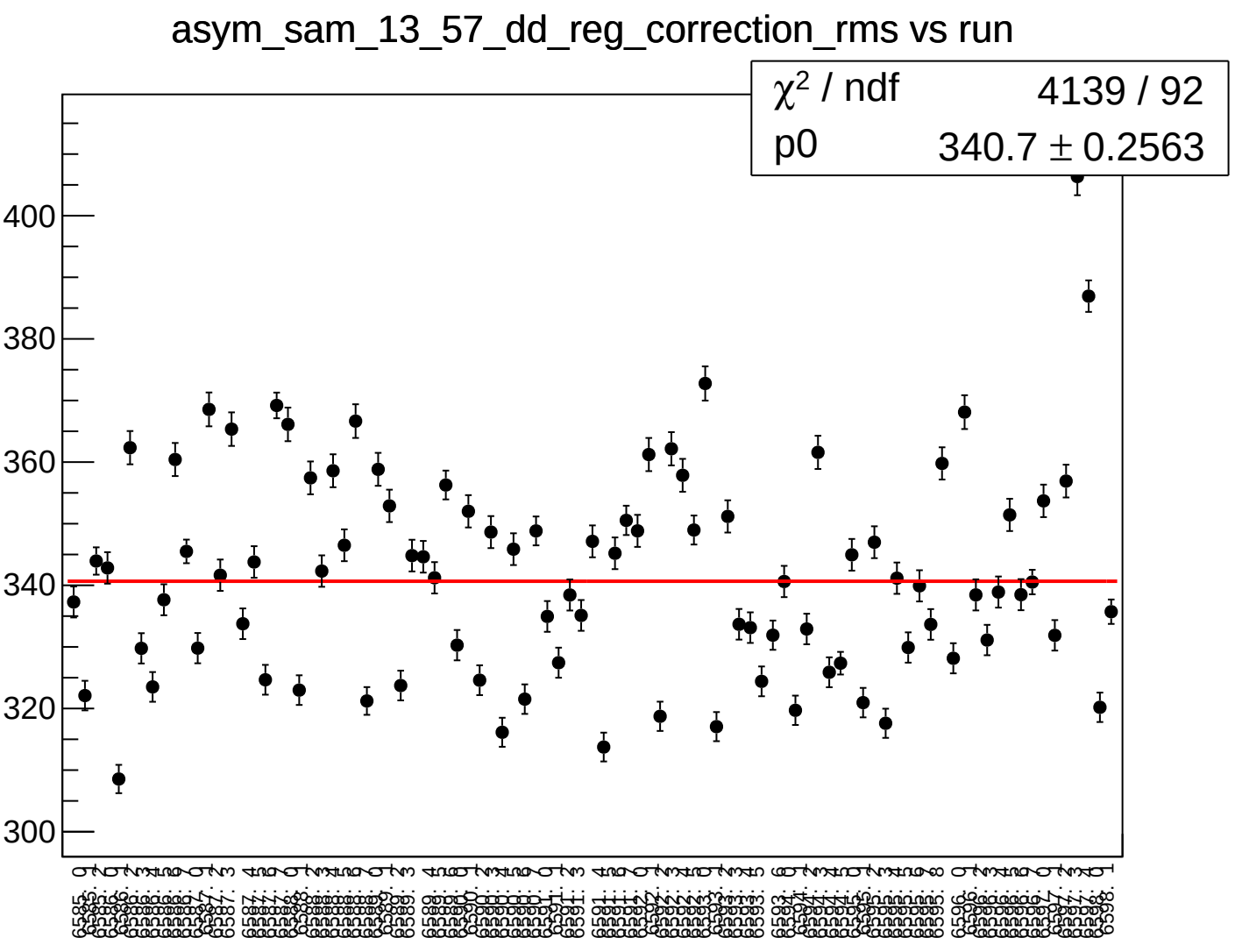

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.417e+05 / 92
p0 1.148e−11 ± 1.036e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

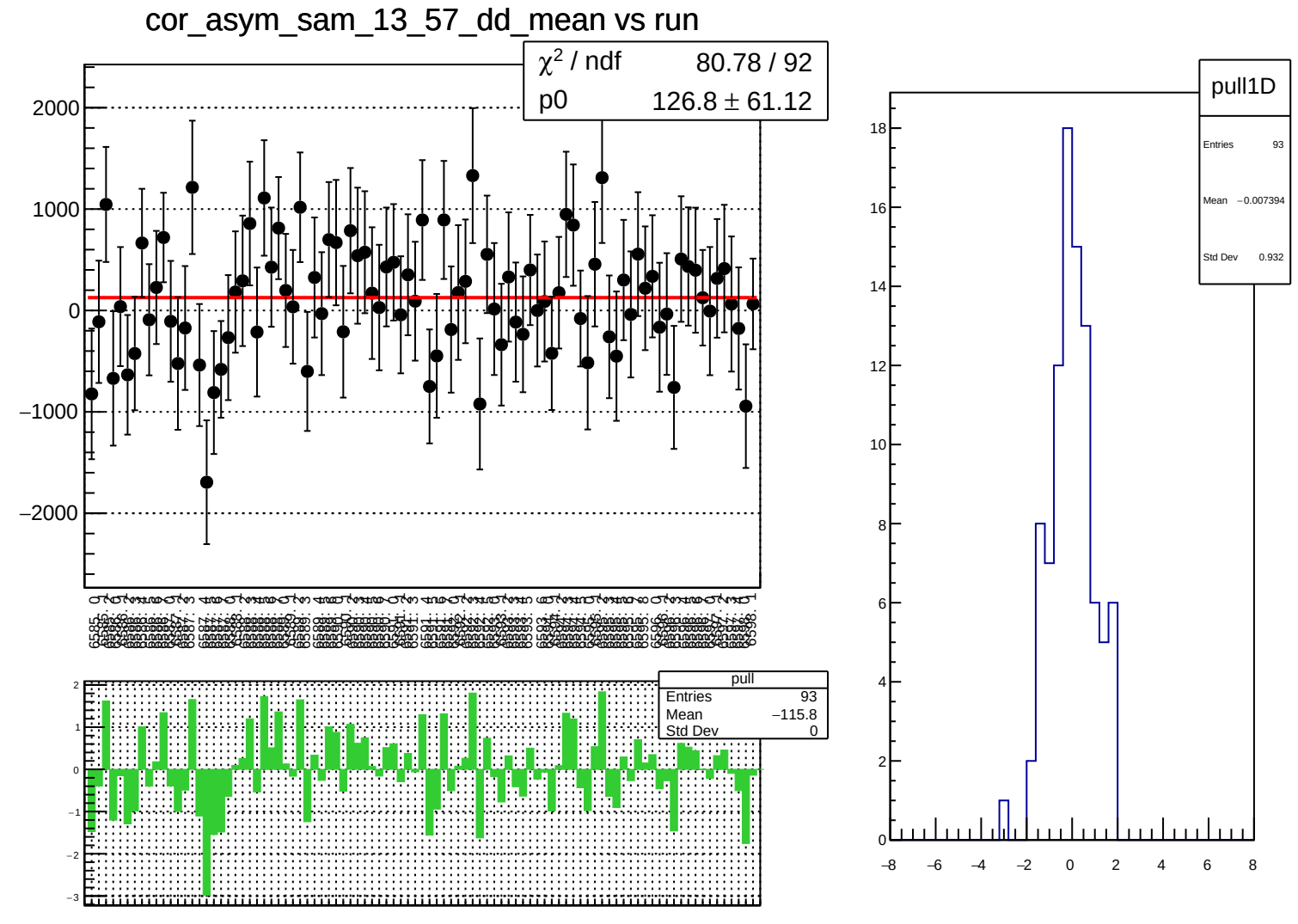

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 80.78 / 92
p0 126.8 ± 61.12
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −115.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.007396
Std Dev 0.932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

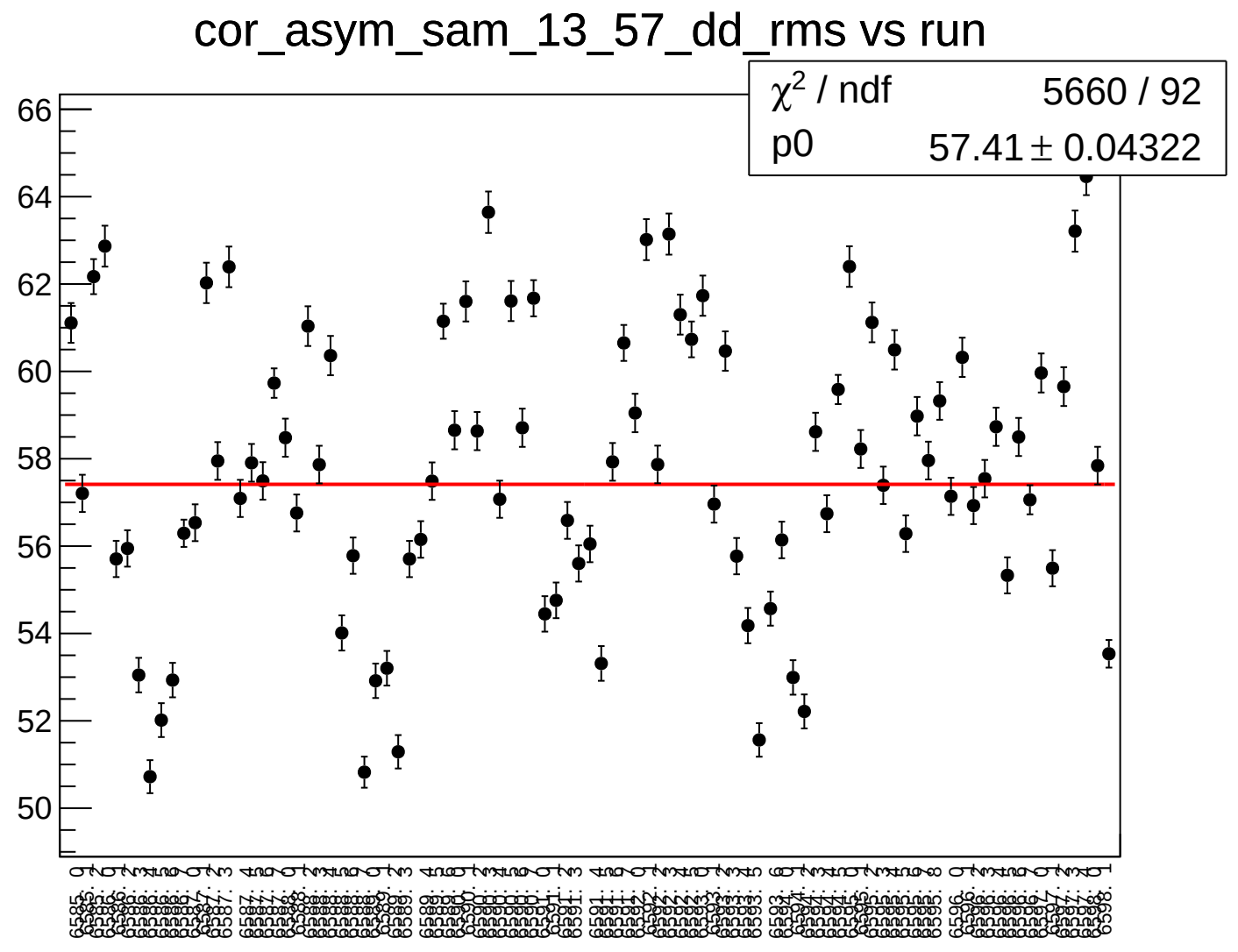

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 5660 / 92
p0 57.41 ± 0.04322
66
64
62
60
58
56
54
52
50

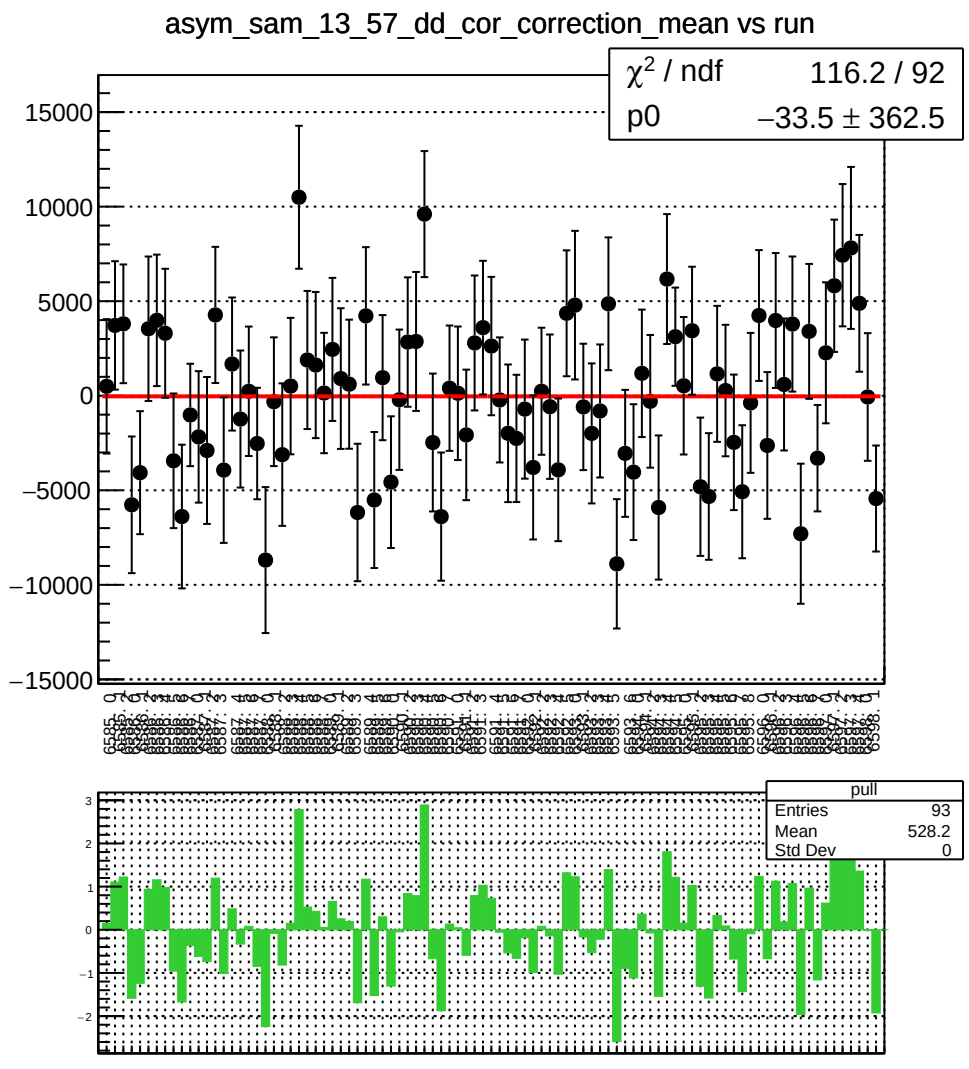

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 116.2 / 92
p0 −33.5 ± 362.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 528.5
Std Dev 0
3
2
1
0
−1
−2

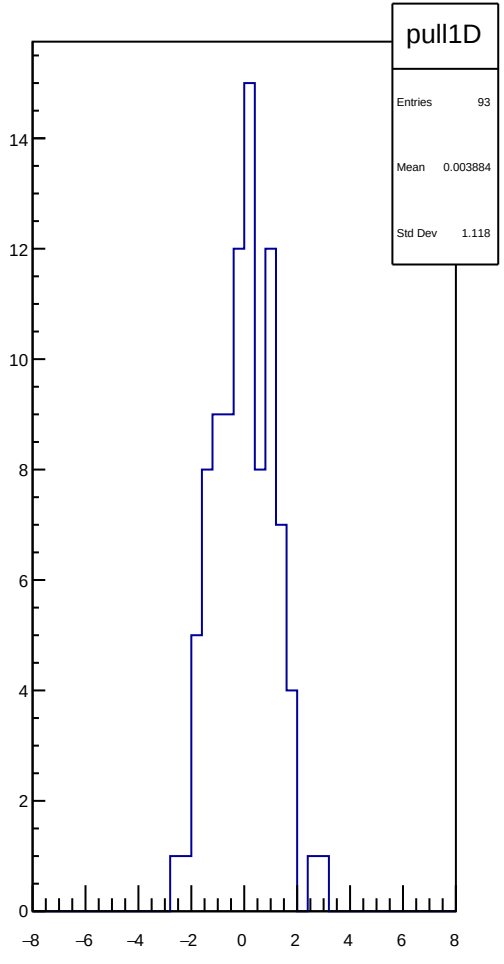

pull1D
Entries 93
Mean 0.003882
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

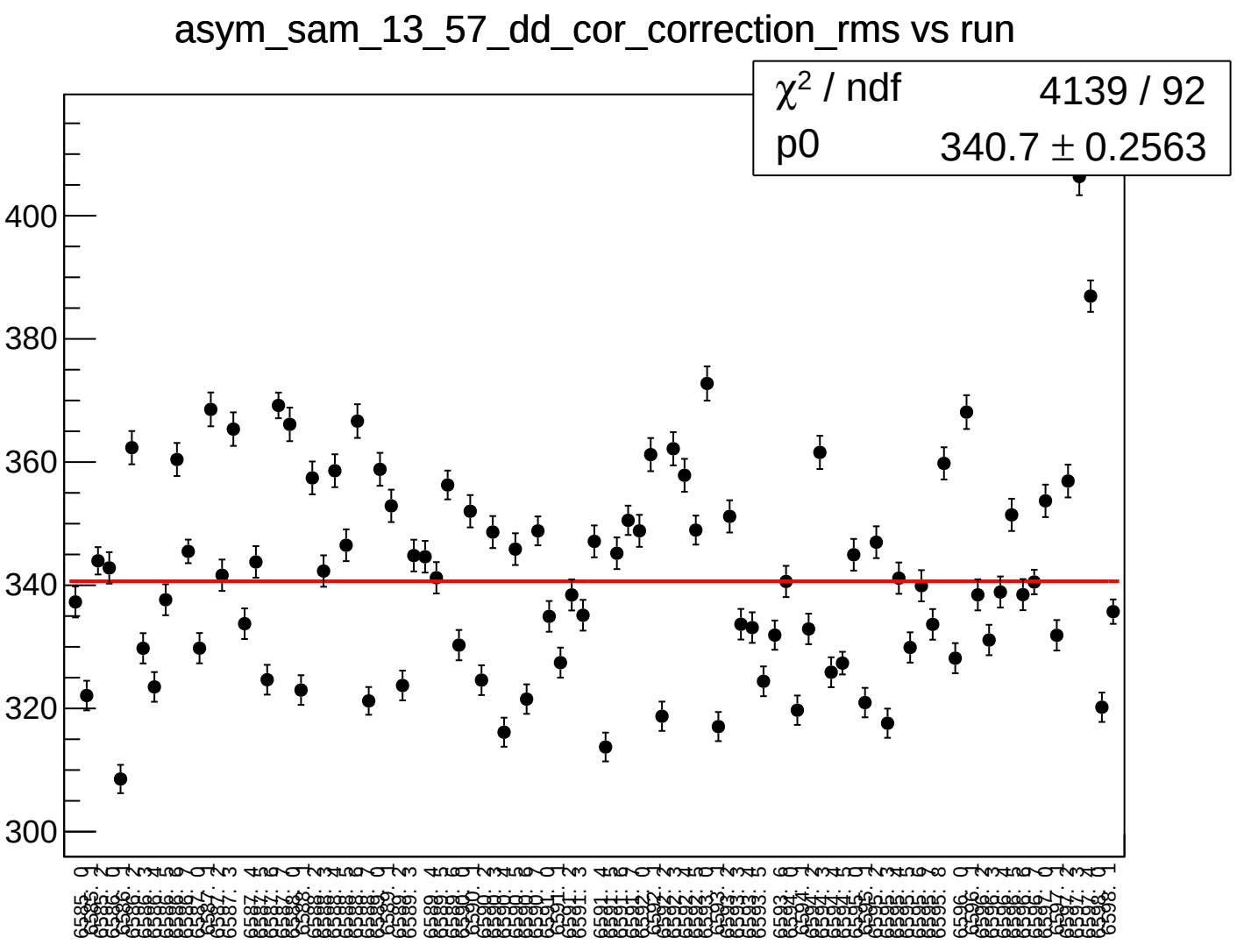

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 4139 / 92
p0 340.7 ± 0.2563
400
380
360
340
320
300

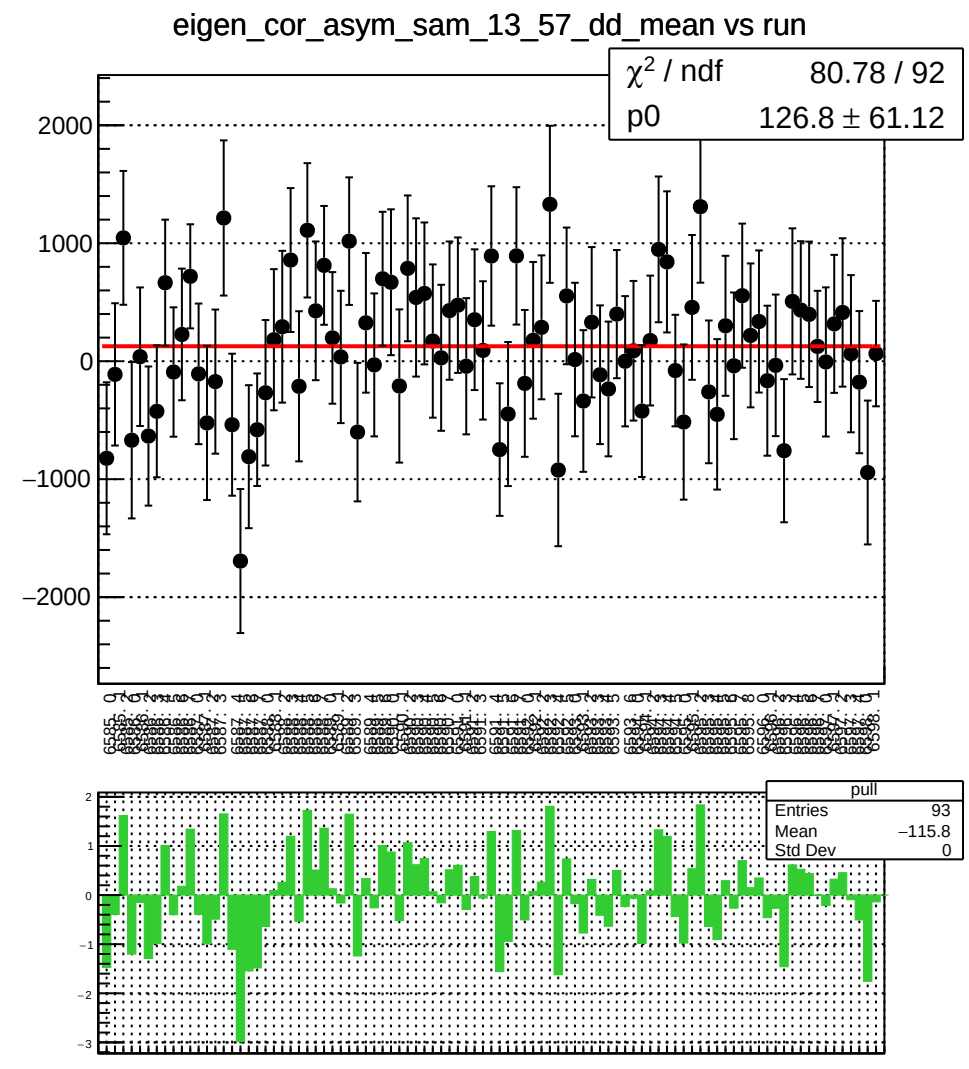

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 80.78 / 92
p0 126.8 ± 61.12
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −115.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.007394
Std Dev 0.932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

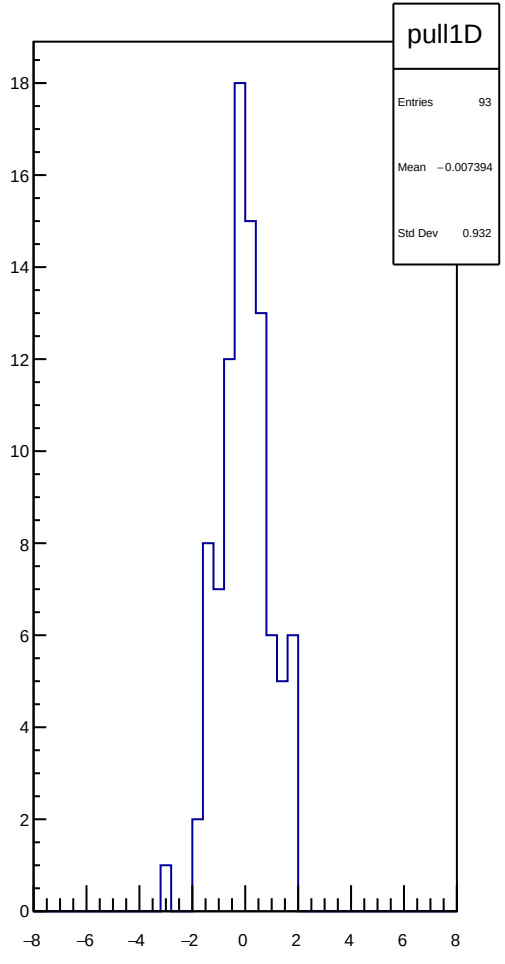

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 5660 / 92
p0 57.41 ± 0.04322
66
64
62
60
58
56
54
52
50

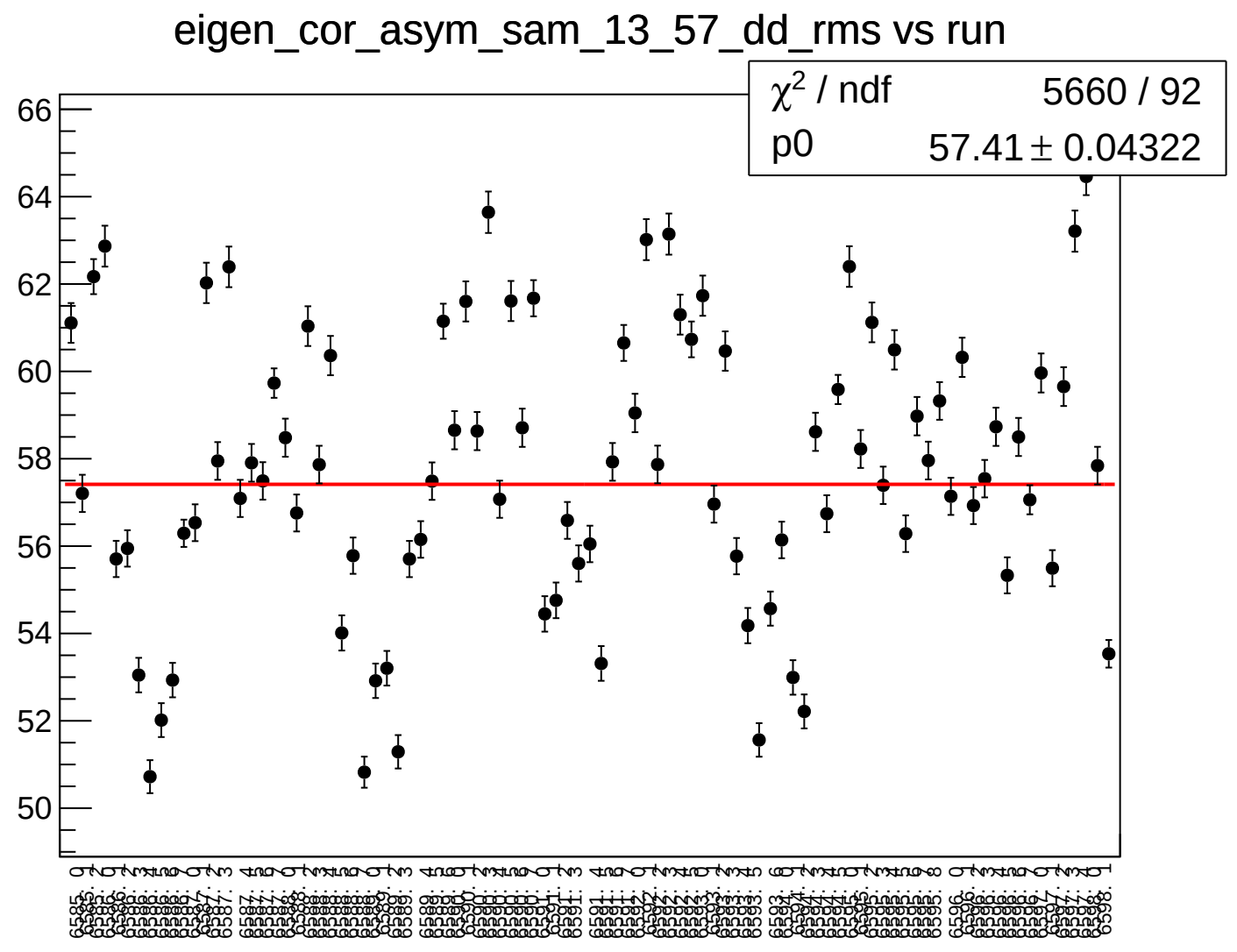

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 116.2 / 92
p0 −33.5 ± 362.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 528.2
Std Dev 0
3
2
1
0
−1
−2

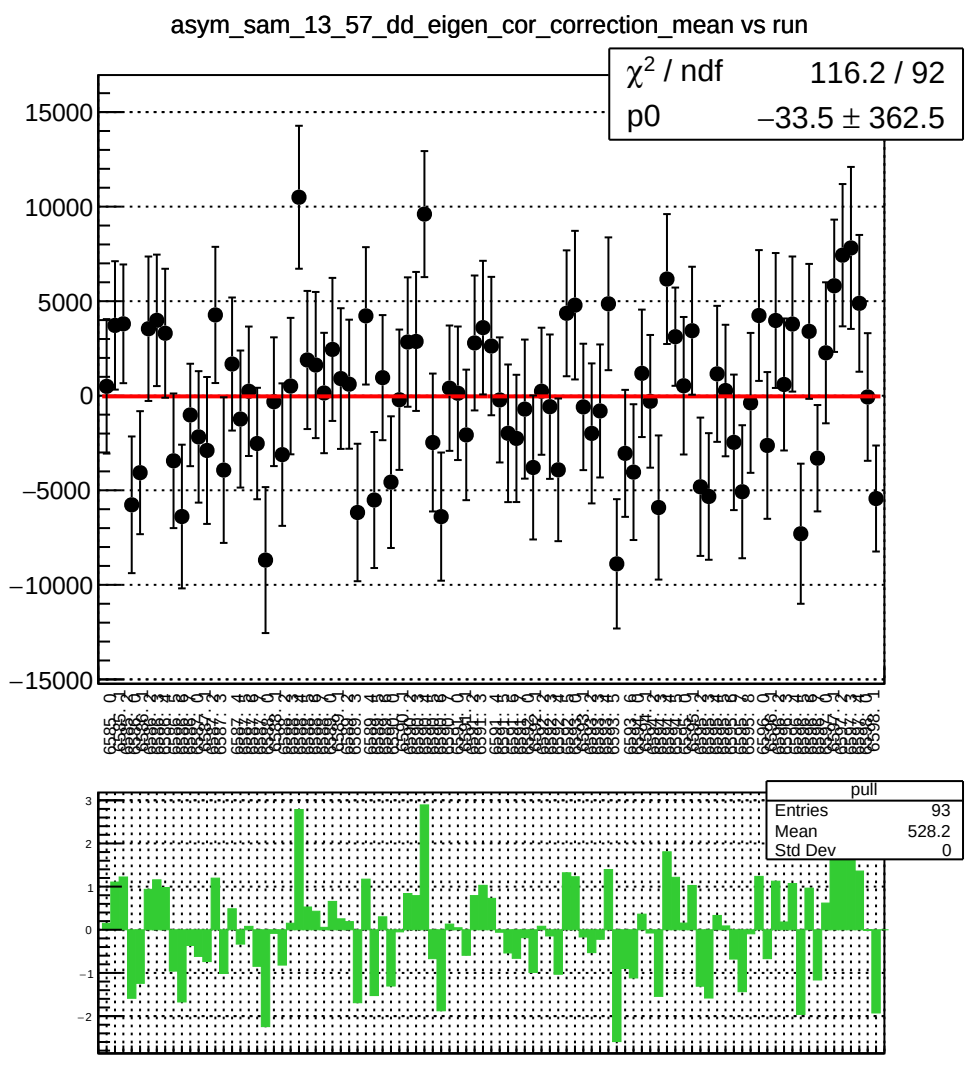

pull1D
Entries 93
Mean 0.003884
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

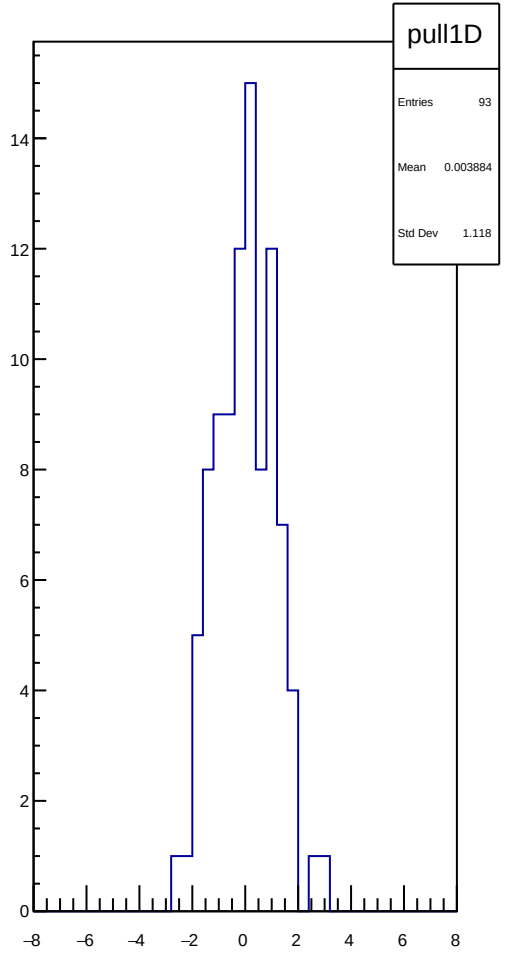

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 4139 / 92
p0 340.7 ± 0.2563
400
380
360
340
320
300

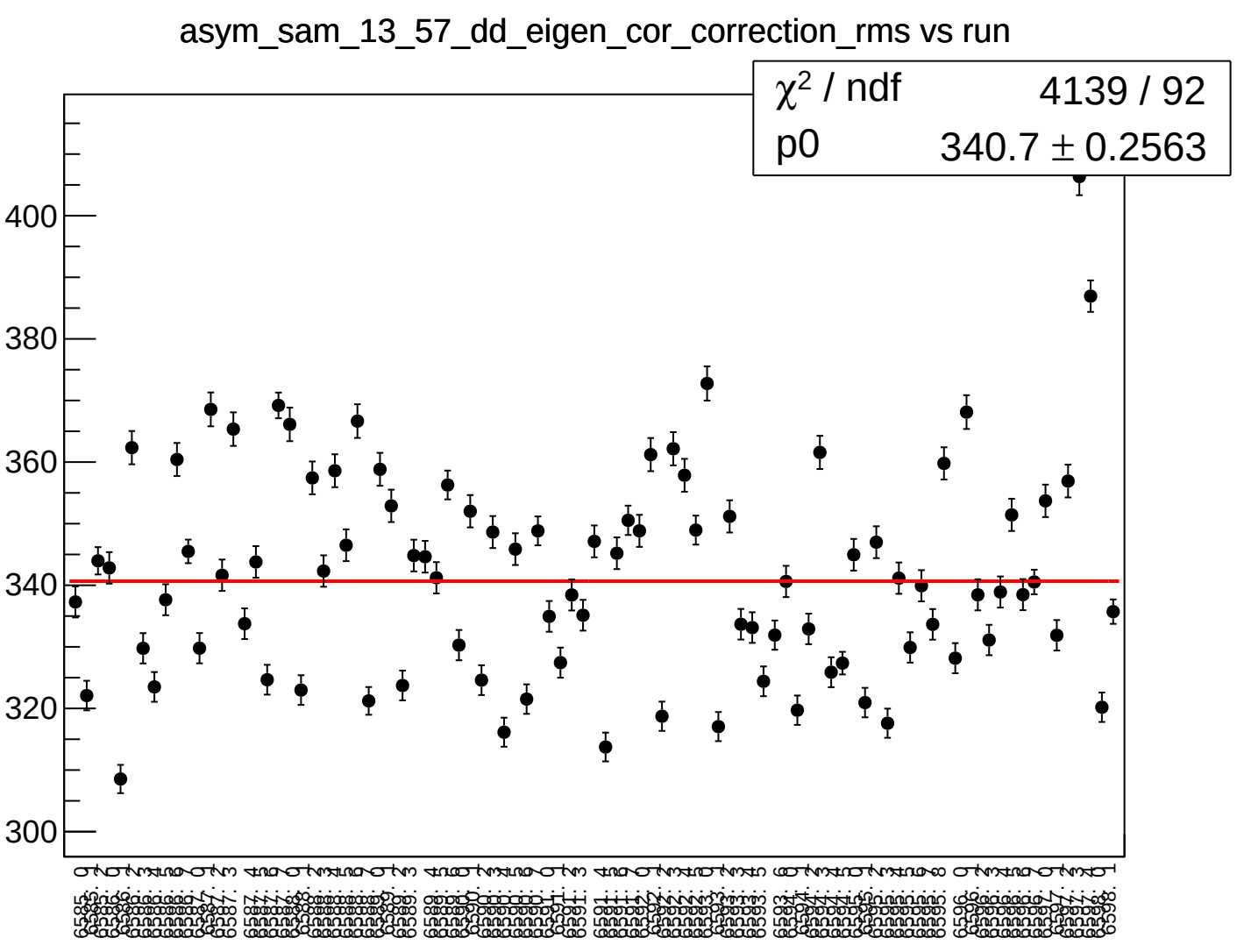

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 80.78 / 92
p0 126.8 ± 61.12
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −115.8
Std Dev 0
2
1
0
−1
−2
−3

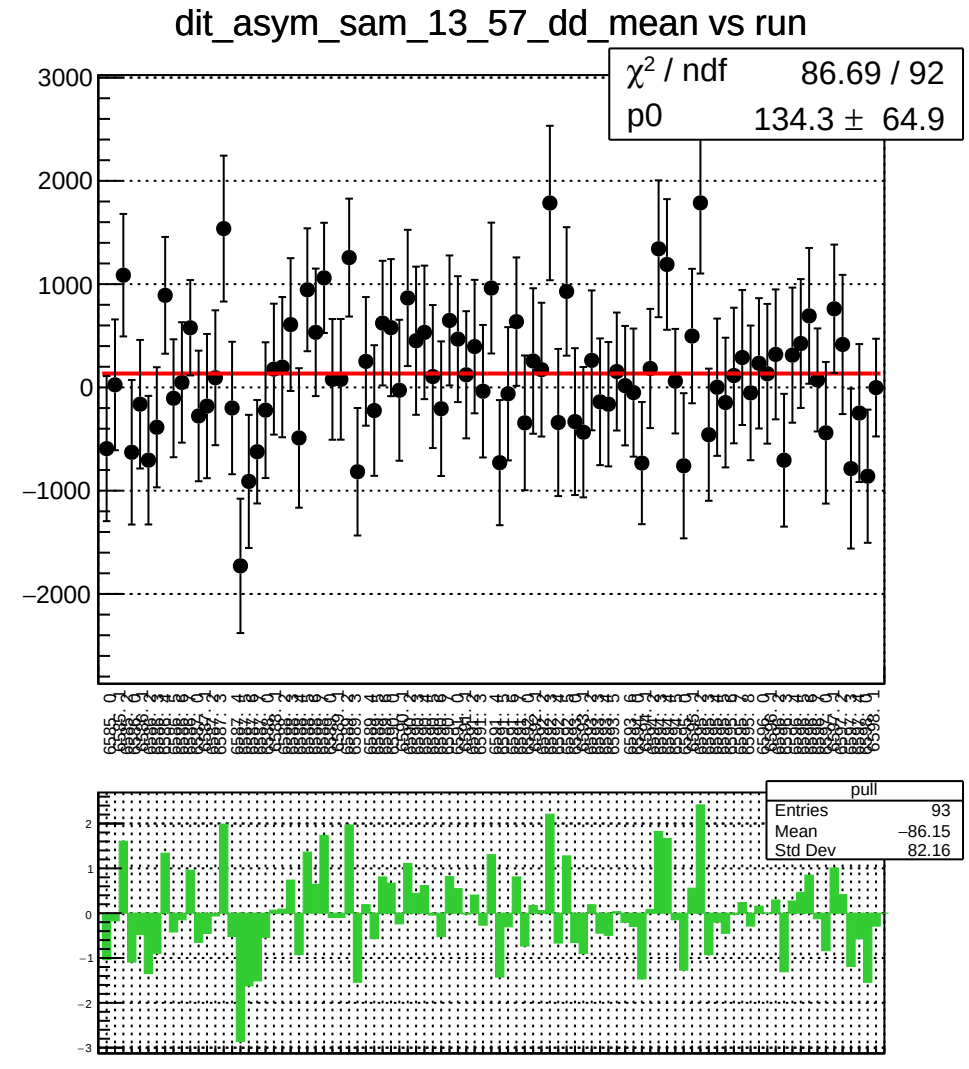

pull1D
Entries 93
Mean −0.007394
Std Dev 0.932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

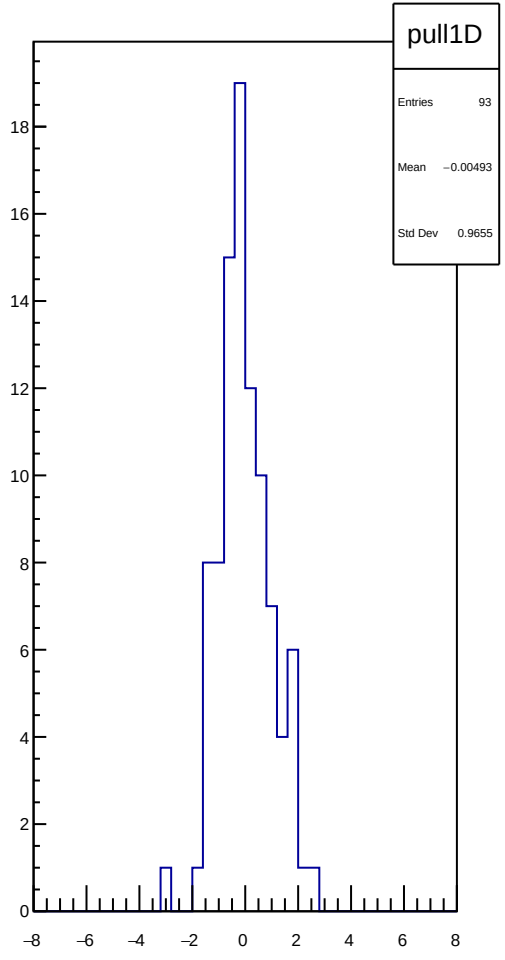

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 5660 / 92
p0 57.41 ± 0.04322
66
64
62
60
58
56
54
52
50

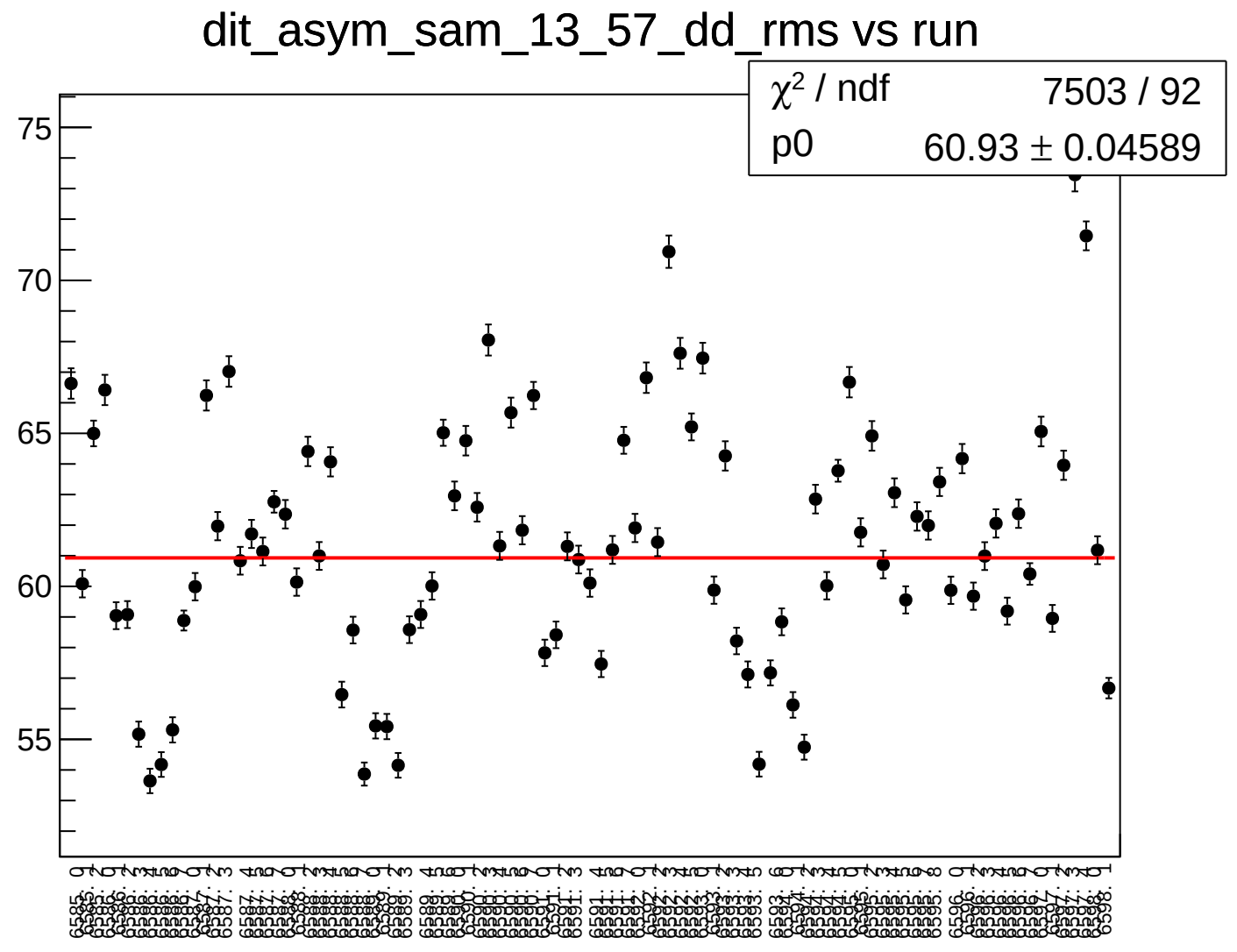

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 116.2 / 92
p0 −33.5 ± 362.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 528.2
Std Dev 0
3
2
1
0
−1
−2

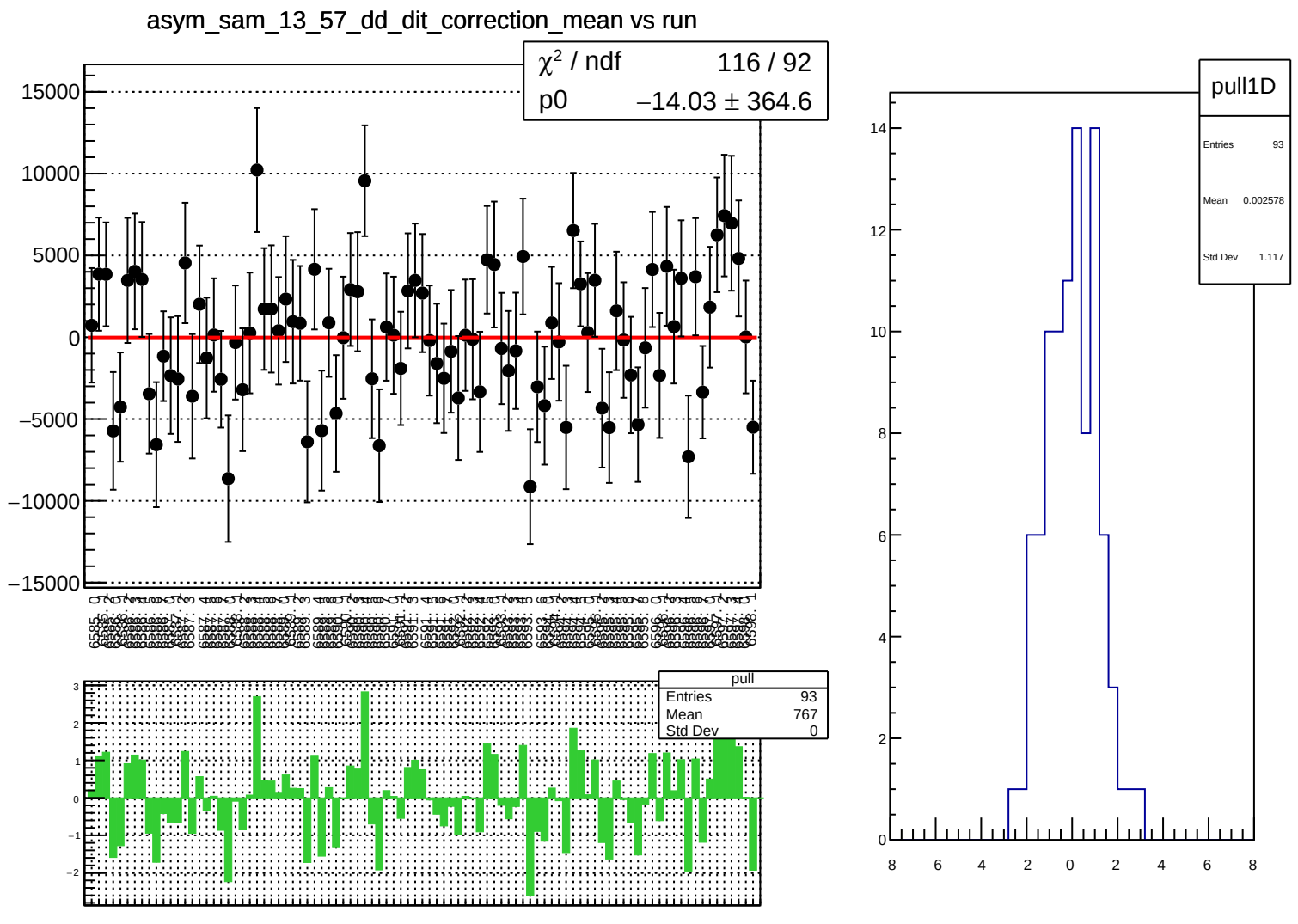

pull1D
Entries 93
Mean 0.003884
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

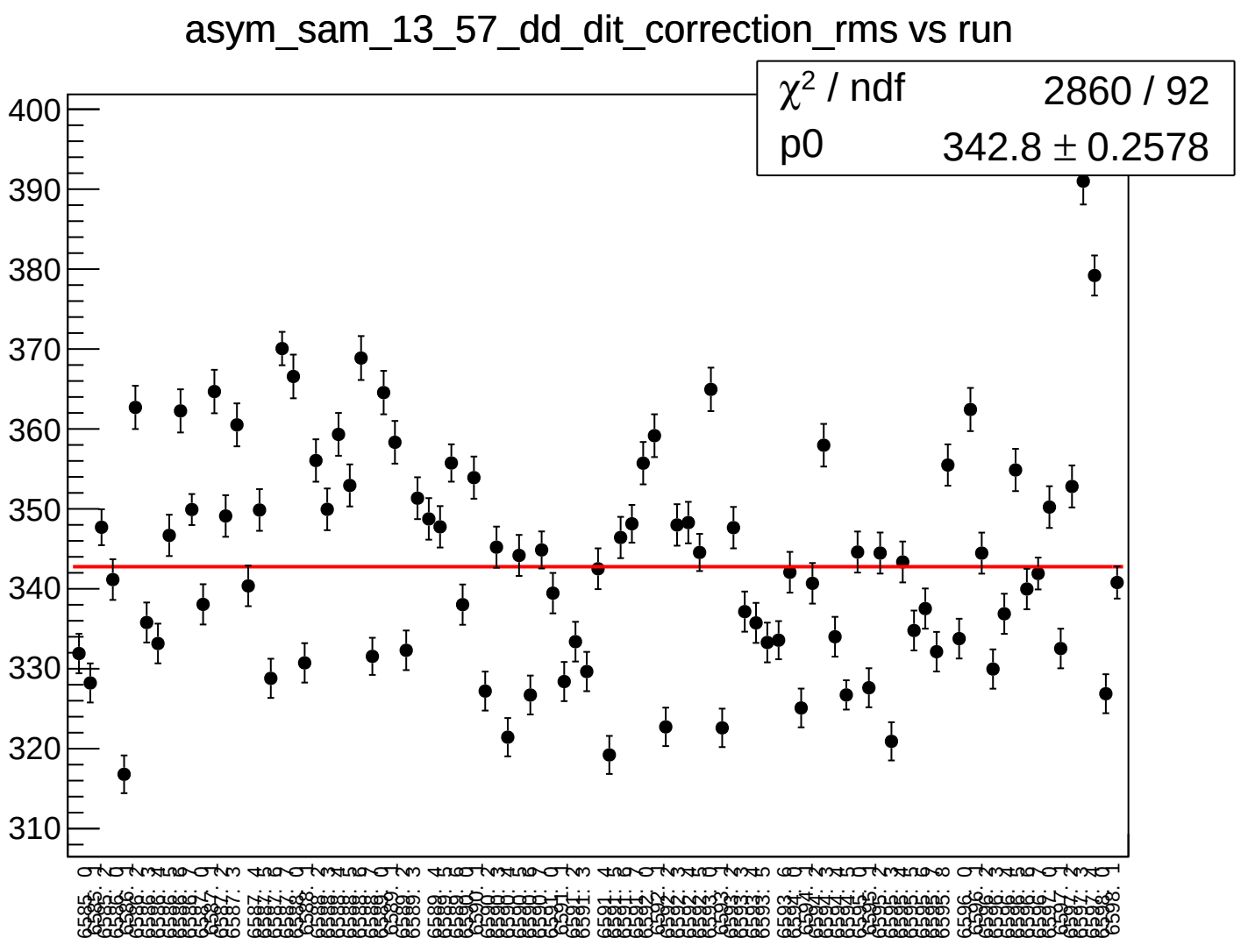

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 4139 / 92
p0 340.7 ± 0.2563
400
380
360
340
320
300

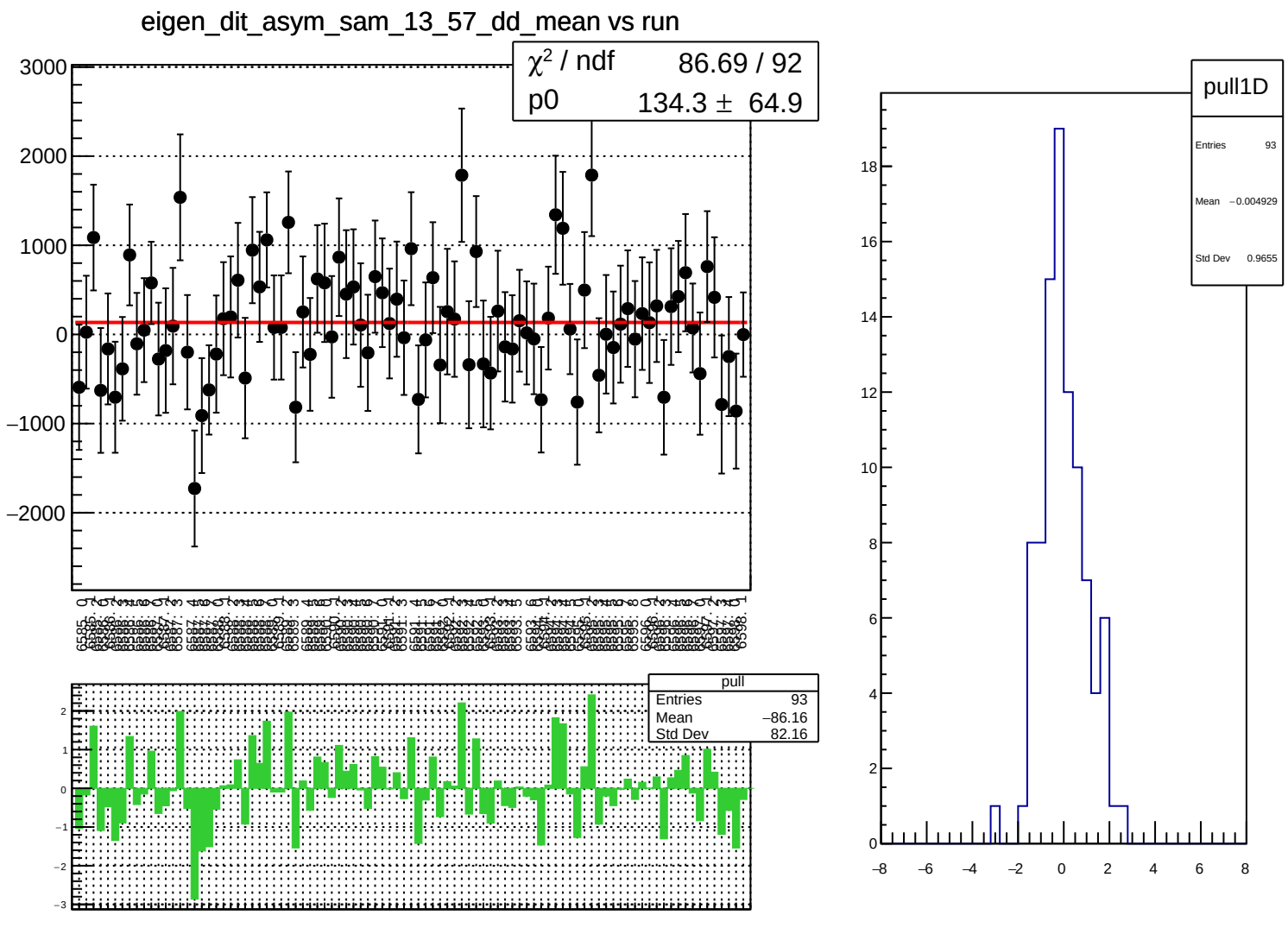

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.69 / 92
p0 134.3 ± 64.9
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −86.15
Std Dev 82.16
2
1
0
−1
−2
−3

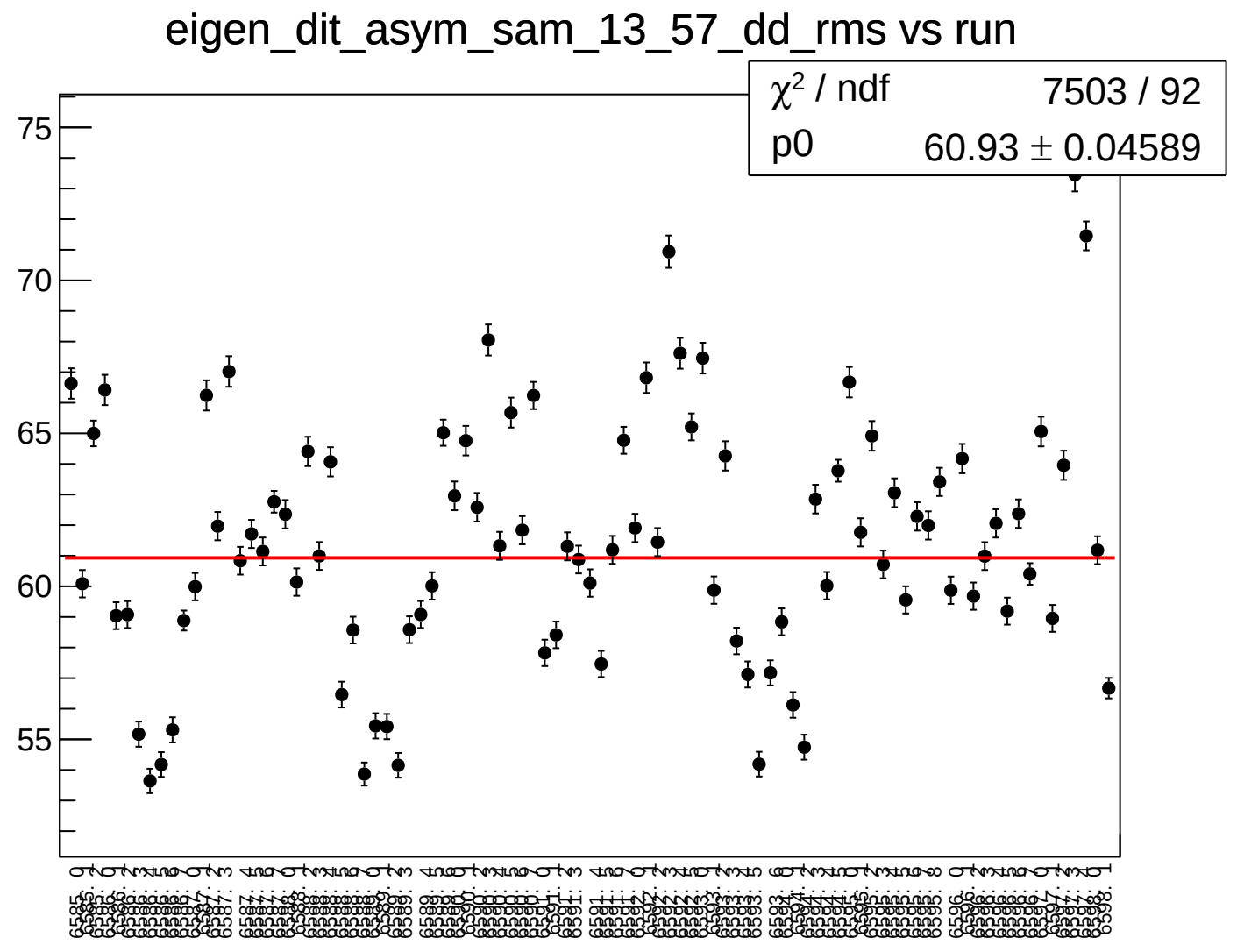

pull1D
Entries 93
Mean −0.00493
Std Dev 0.9655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

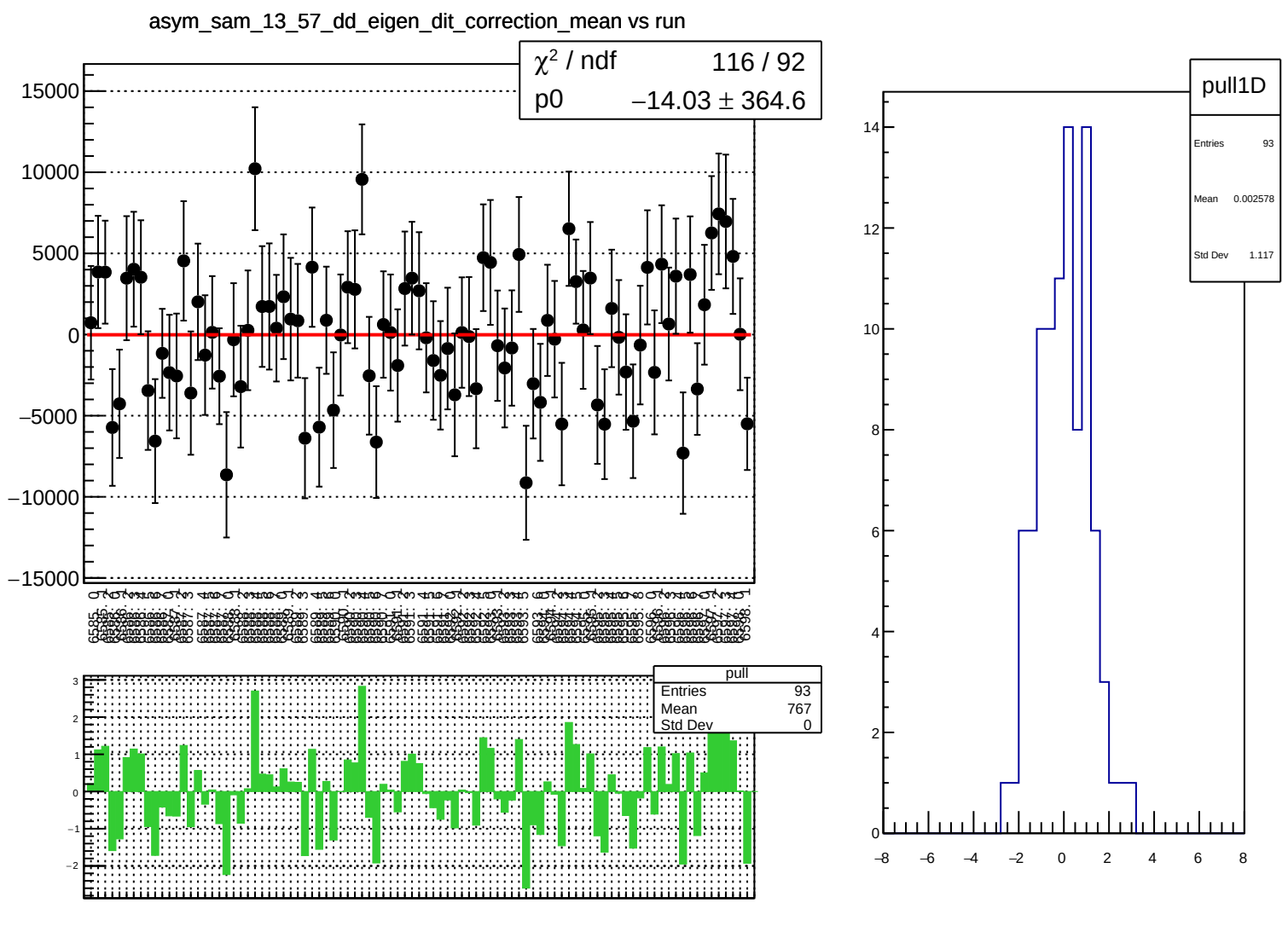

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7503 / 92
p0 60.93 ± 0.04589
75
70
65
60
55

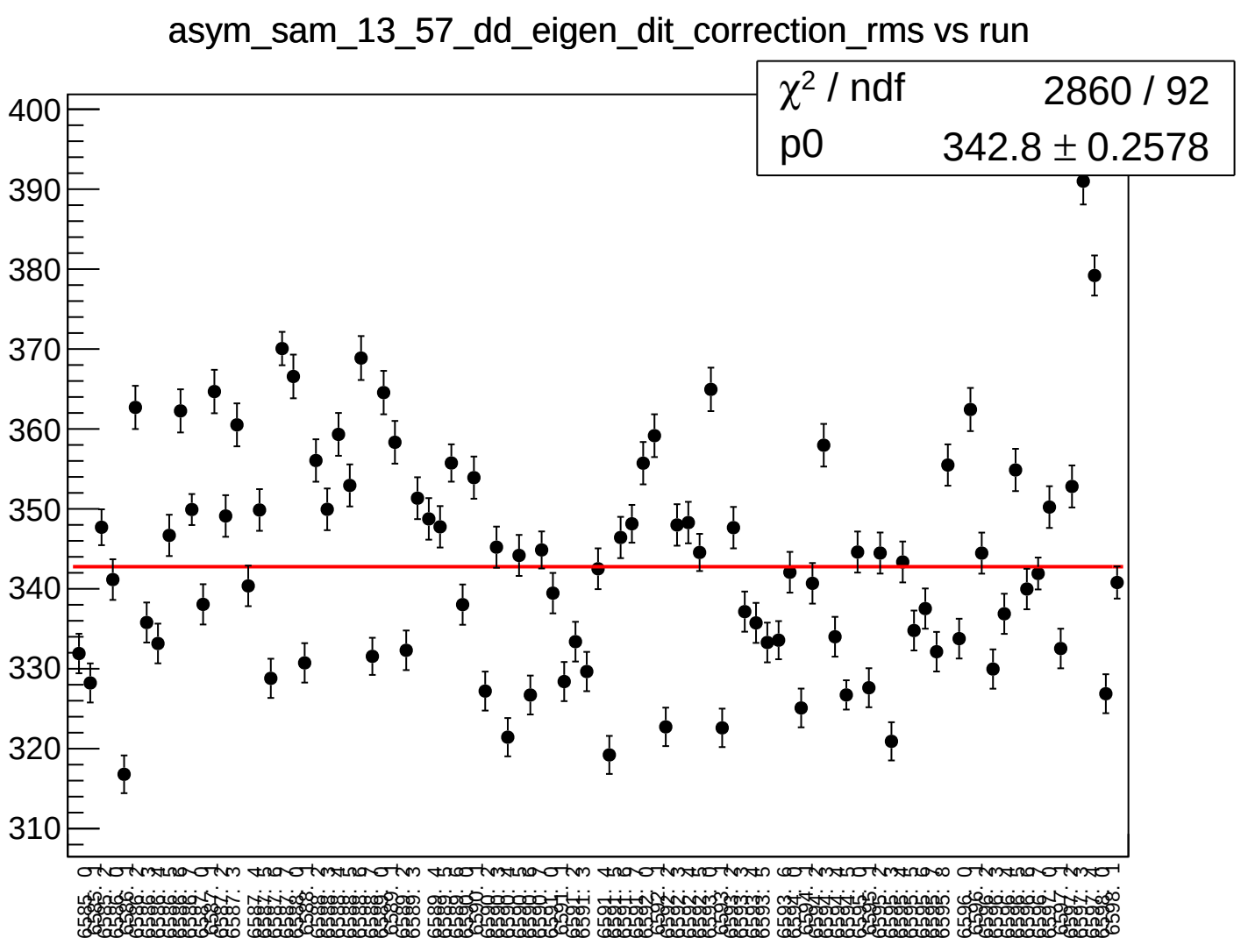

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 116 / 92
p0 −14.03 ± 364.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 767
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002578
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

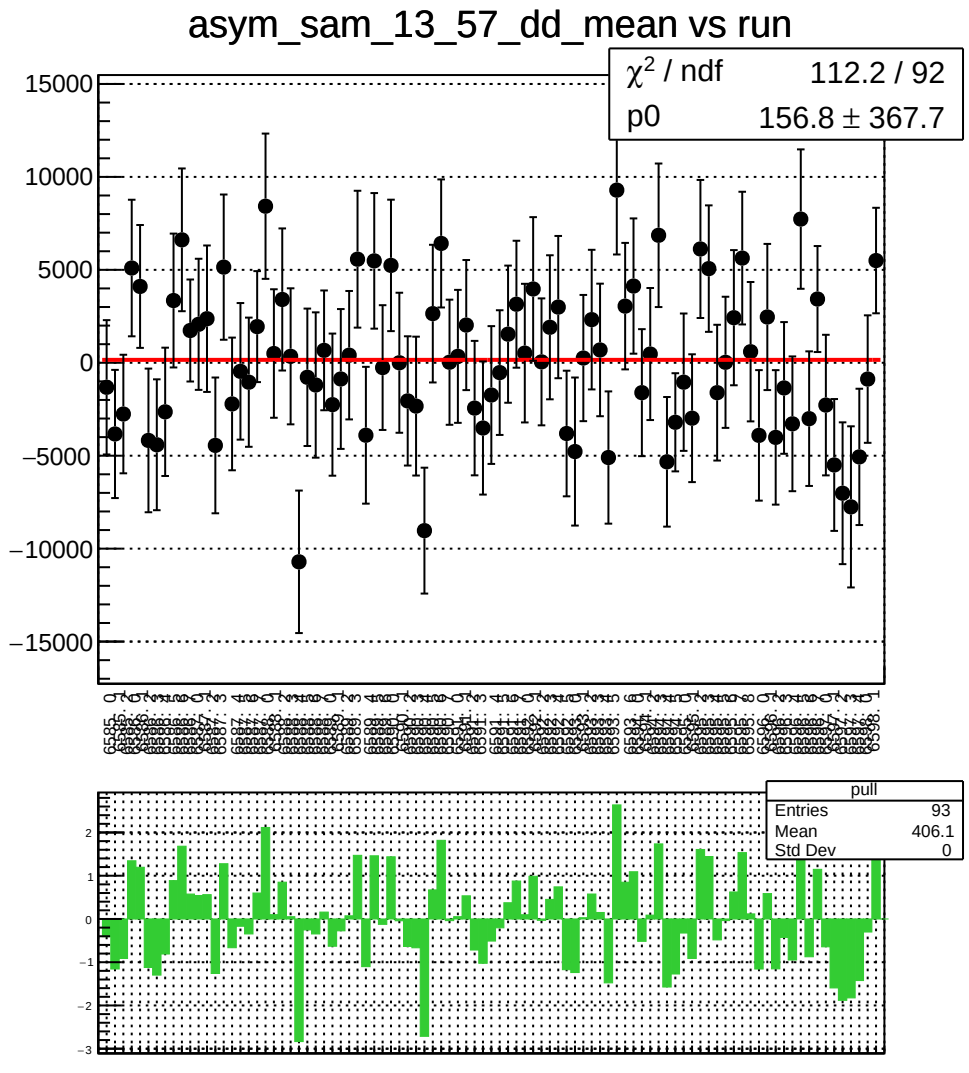

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2860 / 92
p0 342.8 ± 0.2578
400
390
380
370
360
350
340
330
320
310

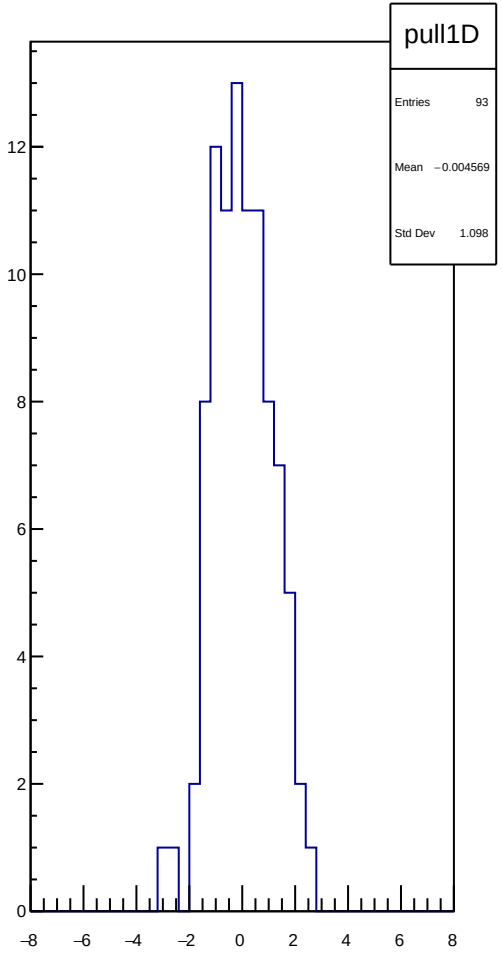

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 86.69 / 92
p0 134.3 ± 64.9
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −86.16
Std Dev 82.16
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.004929
Std Dev 0.9655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

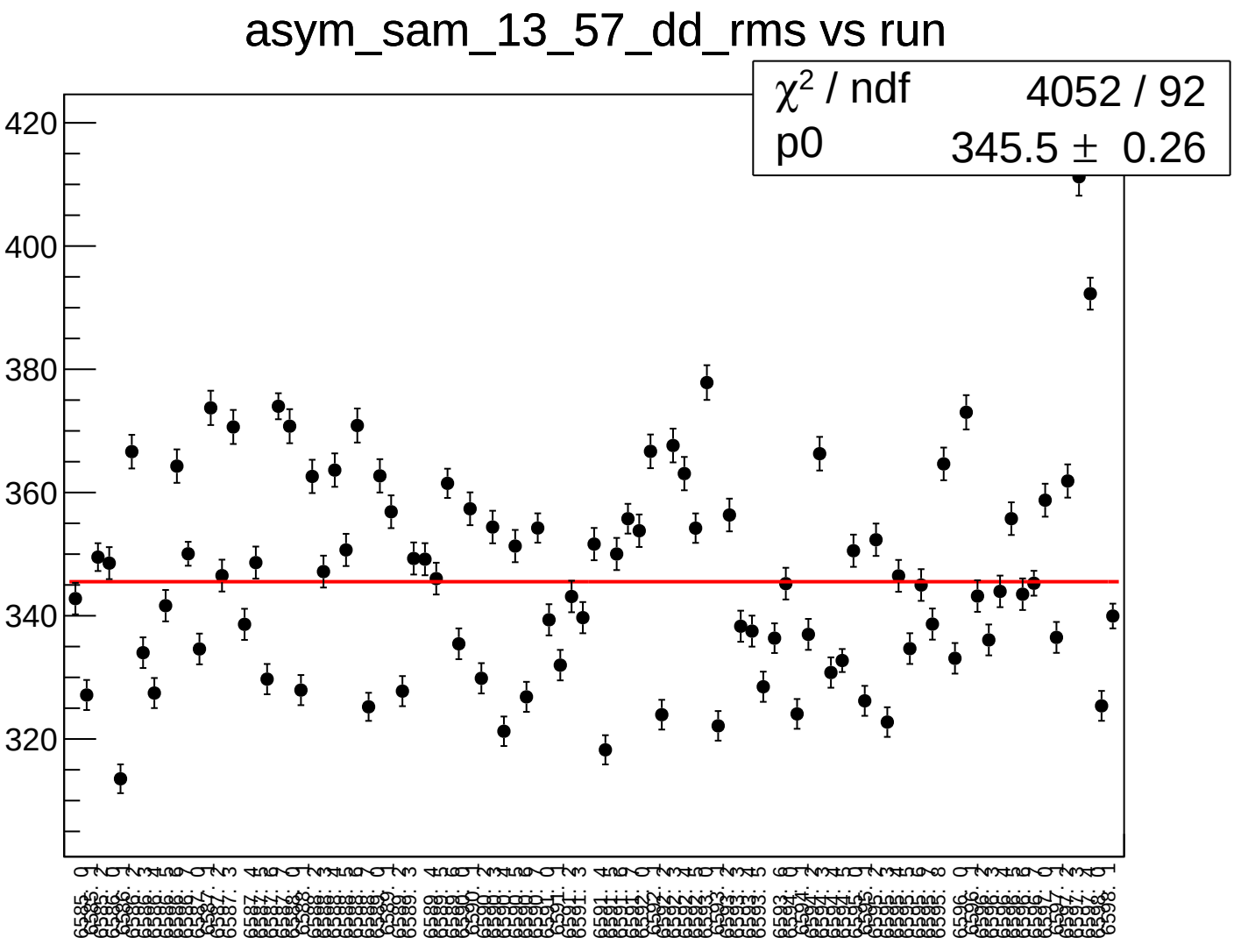

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 7503 / 92
p0 60.93 ± 0.04589
75
70
65
60
55

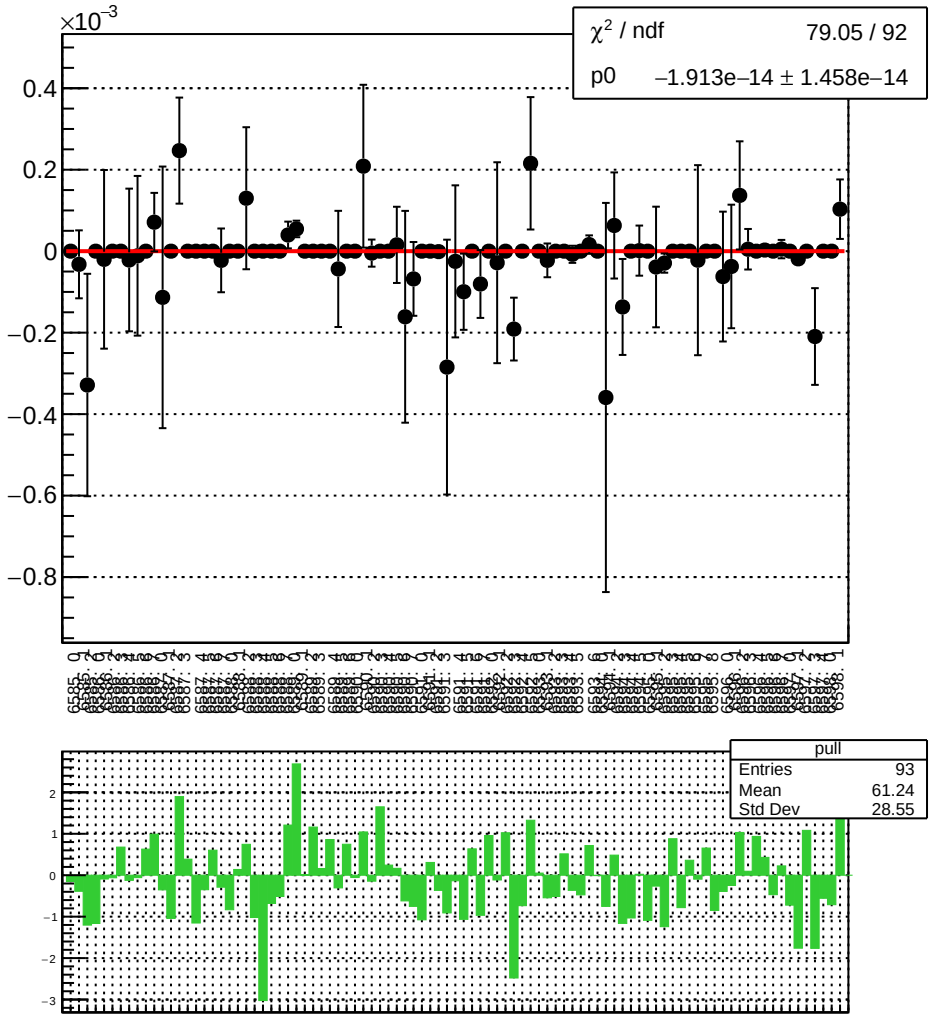

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 116 / 92
p0 −14.03 ± 364.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 767
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002578
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

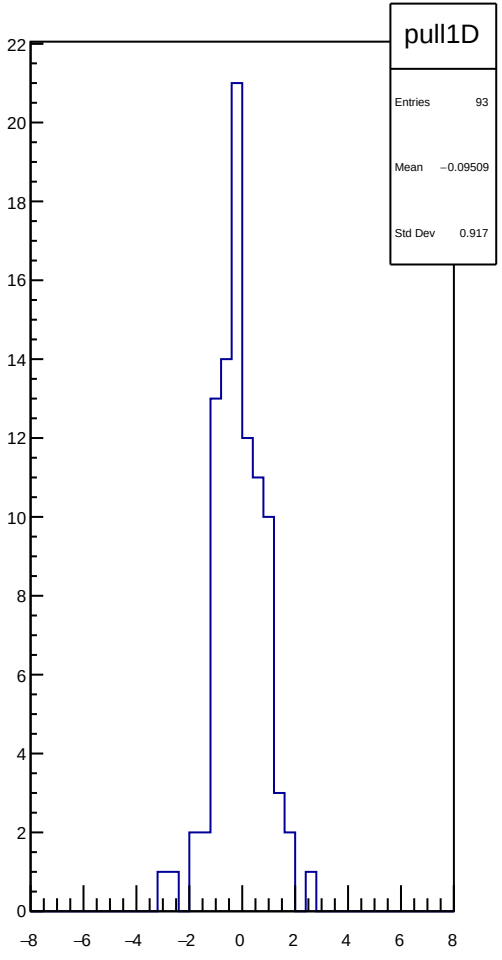

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2860 / 92
p0 342.8 ± 0.2578
400
390
380
370
360
350
340
330
320
310

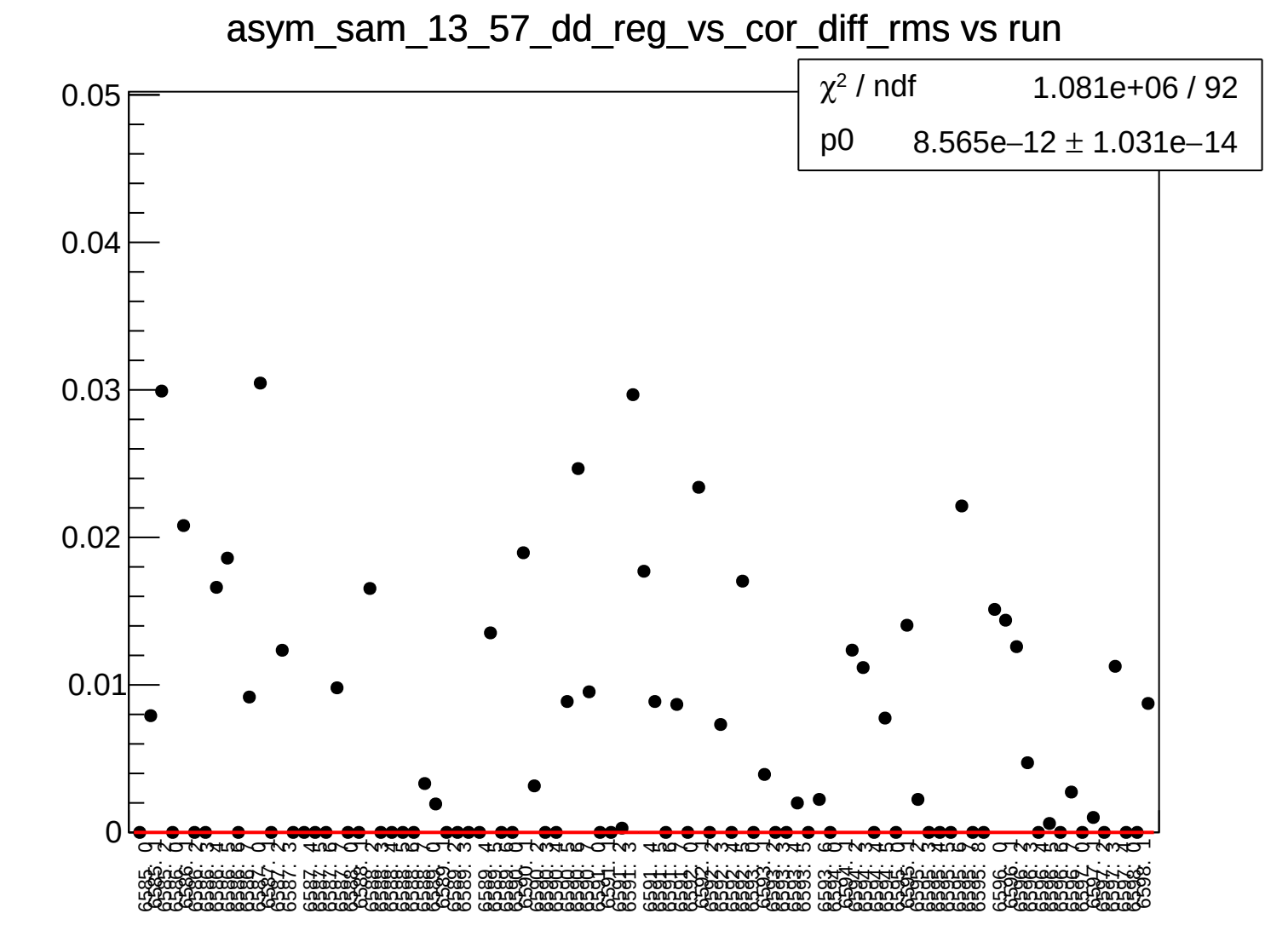

asym_sam_13_57_dd_mean vs run
χ² / ndf 112.2 / 92
p0 156.8 ± 367.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 406.1
Std Dev 0
2
1
0
−1
−2
−3

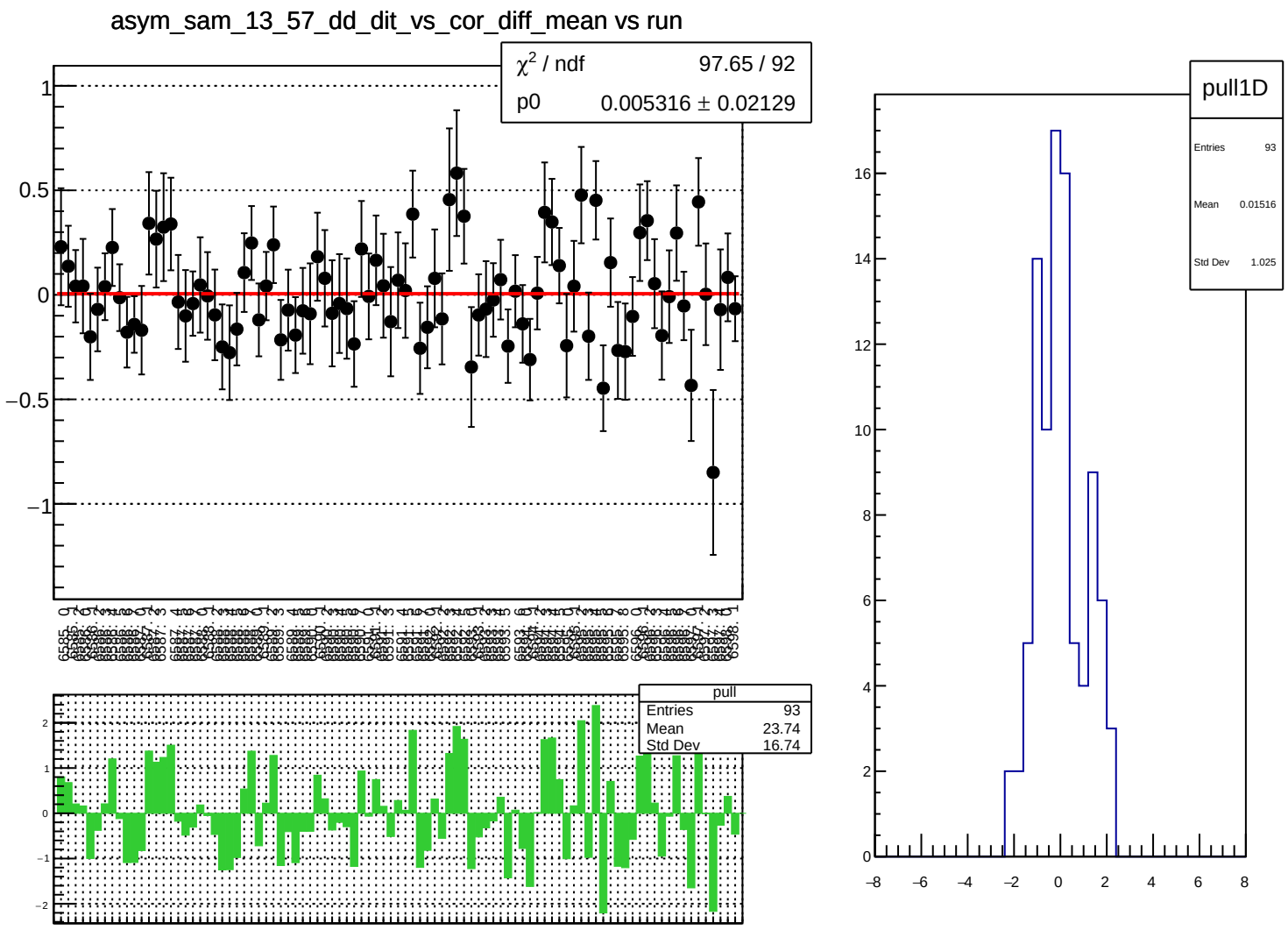

pull1D
Entries 93
Mean −0.004569
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

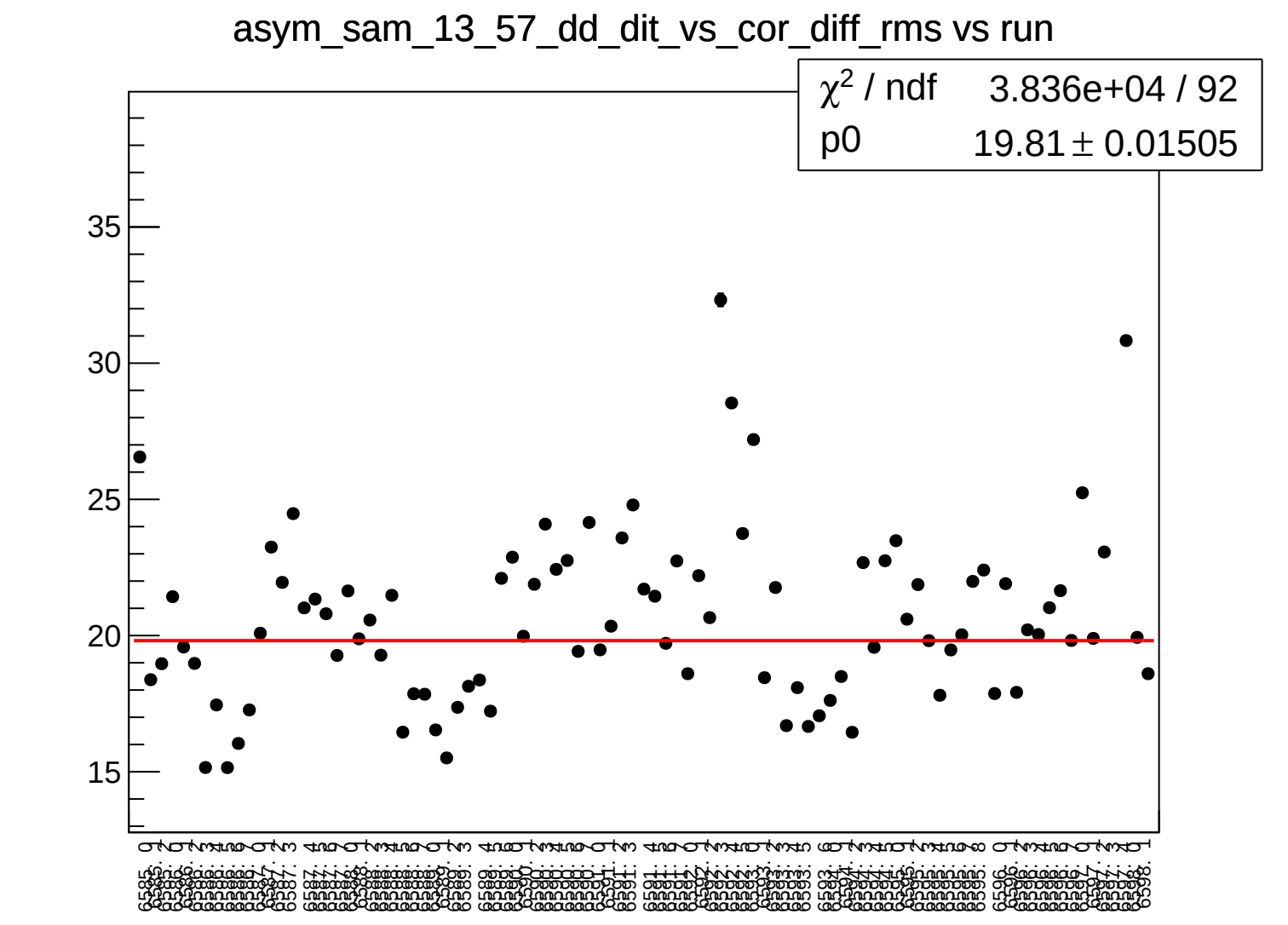

asym_sam_13_57_dd_rms vs run
χ² / ndf 4052 / 92
p0 345.5 ± 0.26
420
400
380
360
340
320

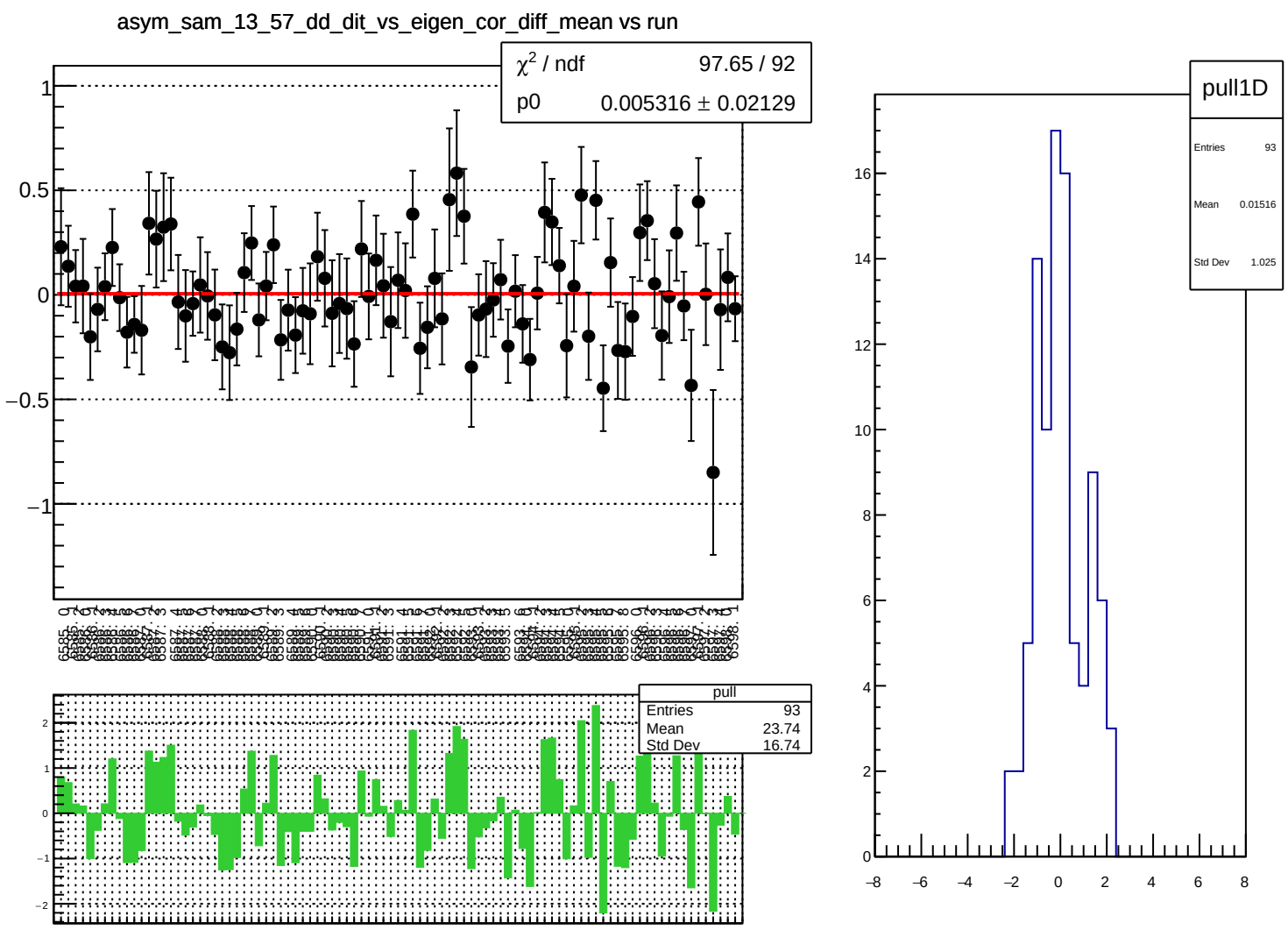

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 79.05 / 92
p0 −1.913e−14 ± 1.458e−14
pull
Entries 93
Mean 61.24
Std Dev 28.55

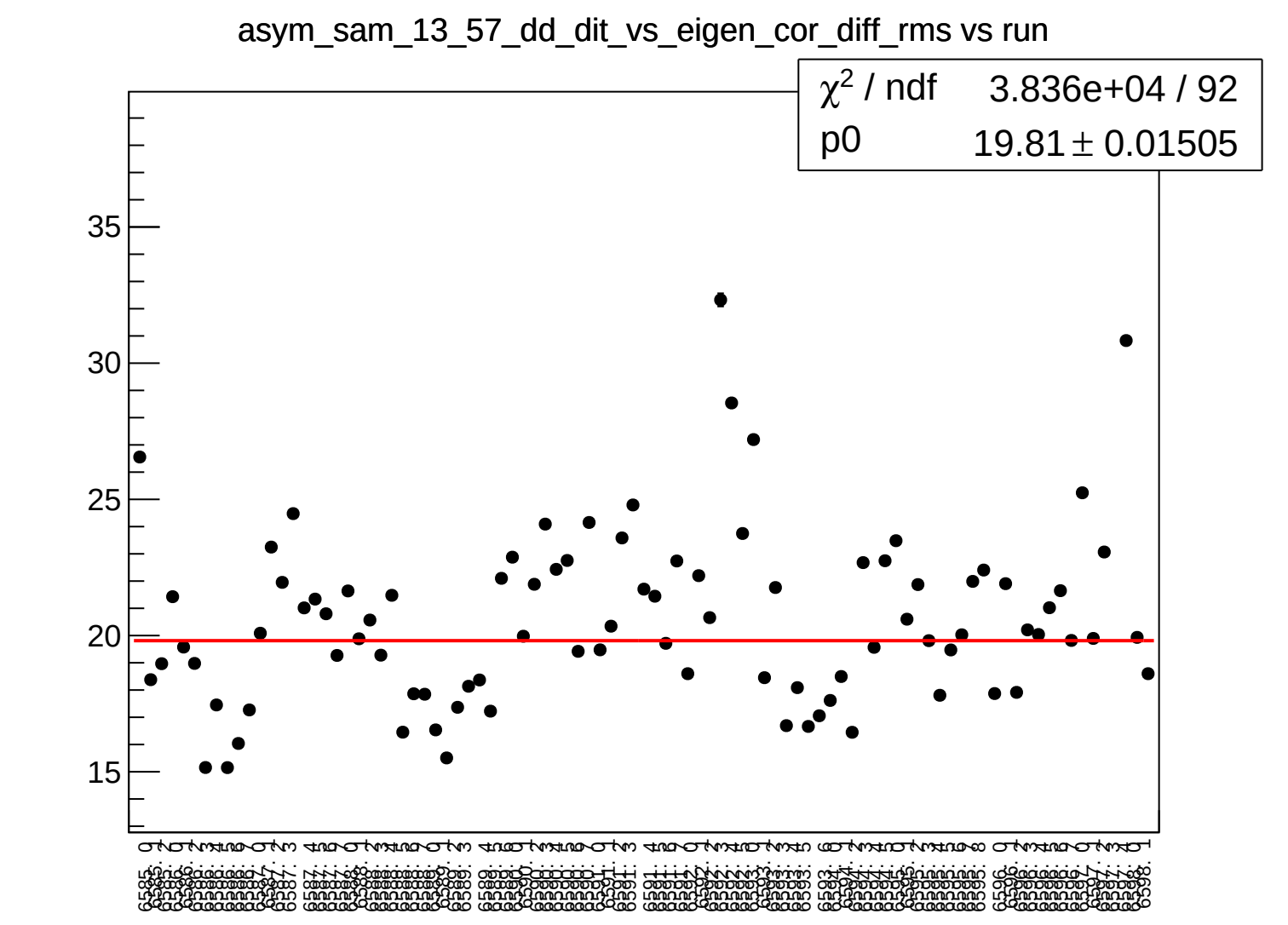

pull1D
Entries 93
Mean −0.09509
Std Dev 0.917

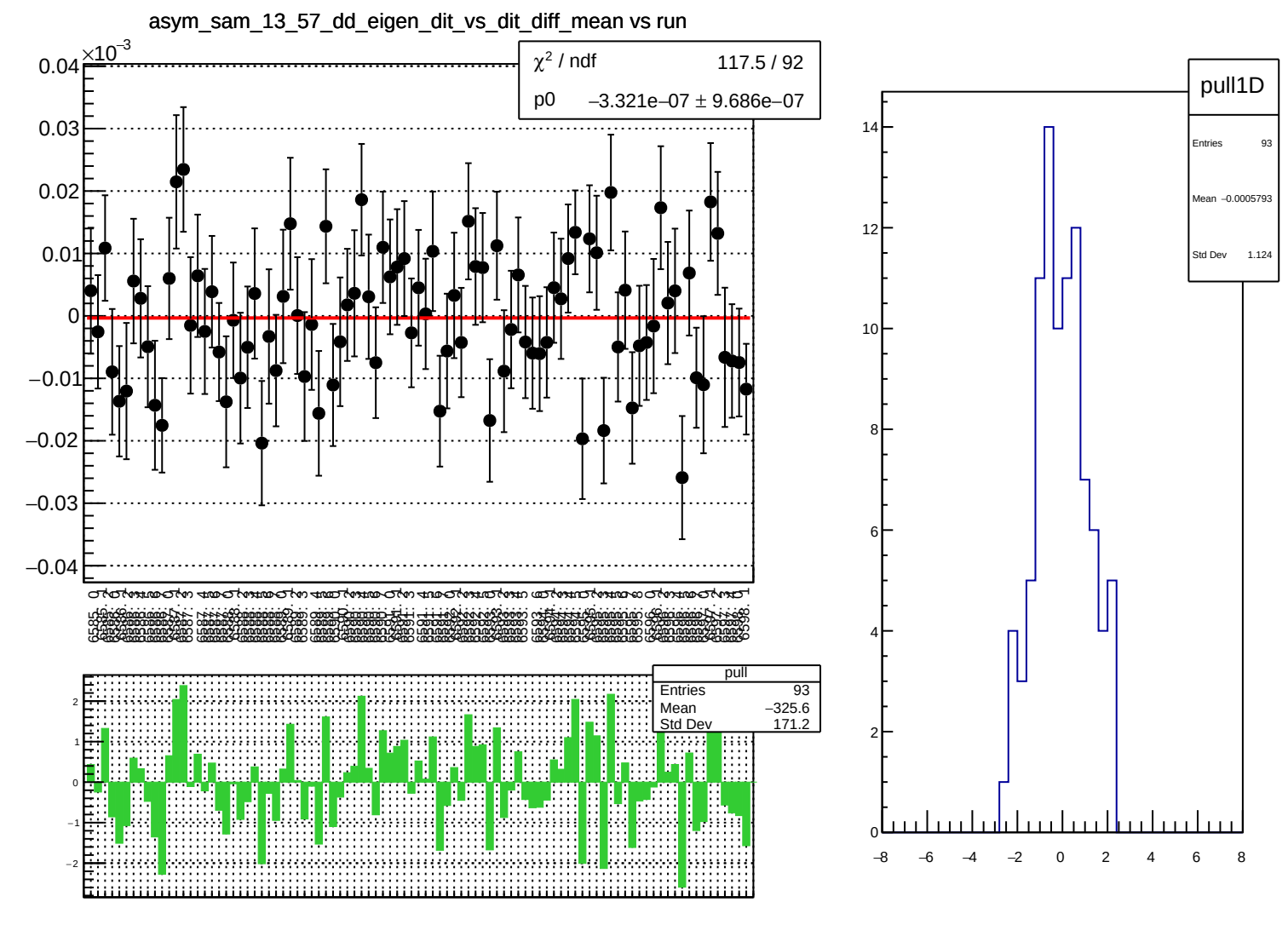

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.081e+06 / 92
p0 8.565e−12 ± 1.031e−14
0.05
0.04
0.03
0.02
0.01
0

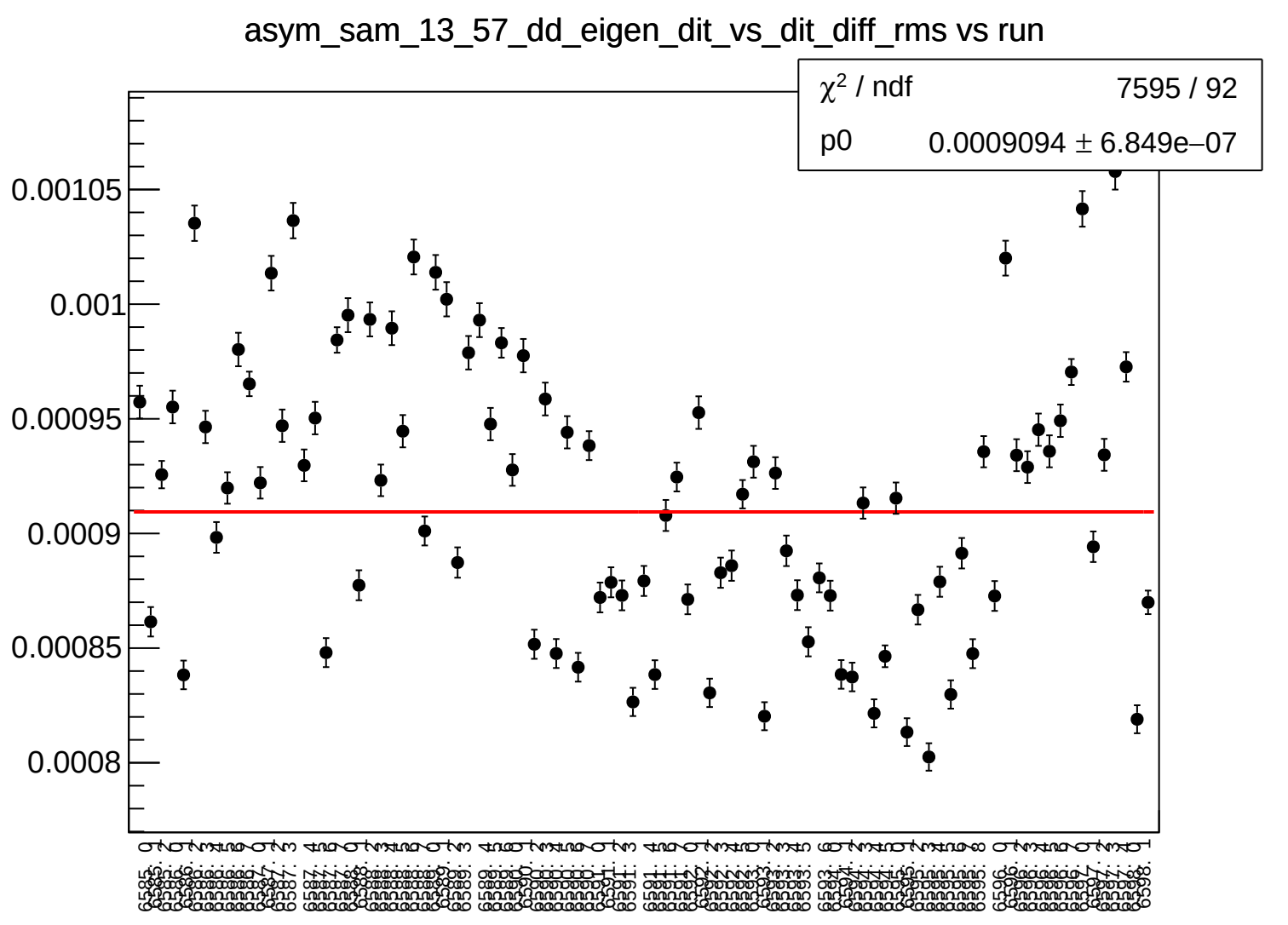

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.65 / 92
p0 0.005316 ± 0.02129
pull
Entries 93
Mean 23.74
Std Dev 16.74
pull1D
Entries 93
Mean 0.01516
Std Dev 1.025

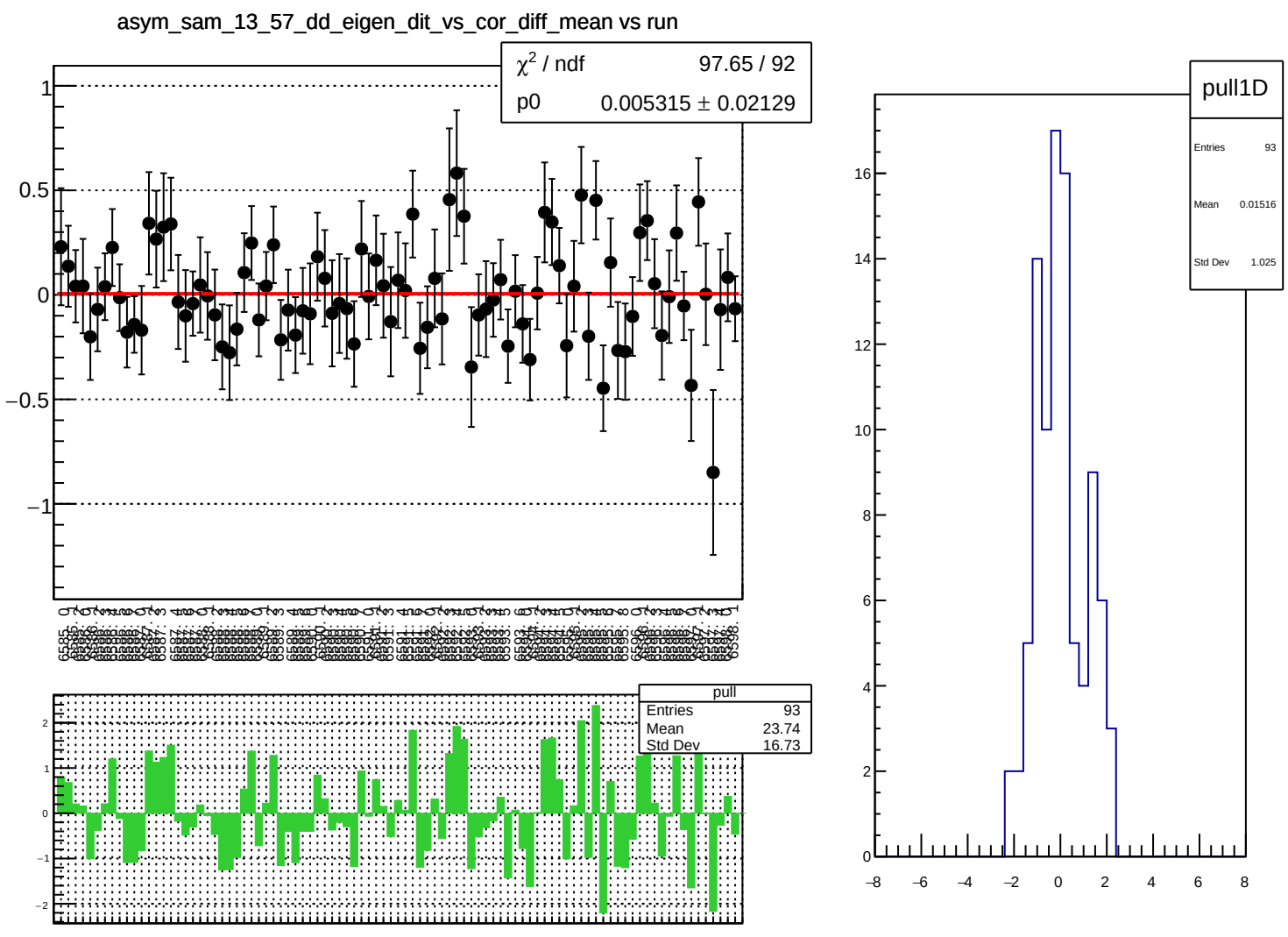

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.836e+04 / 92
p0 19.81 ± 0.01505
35
30
25
20
15

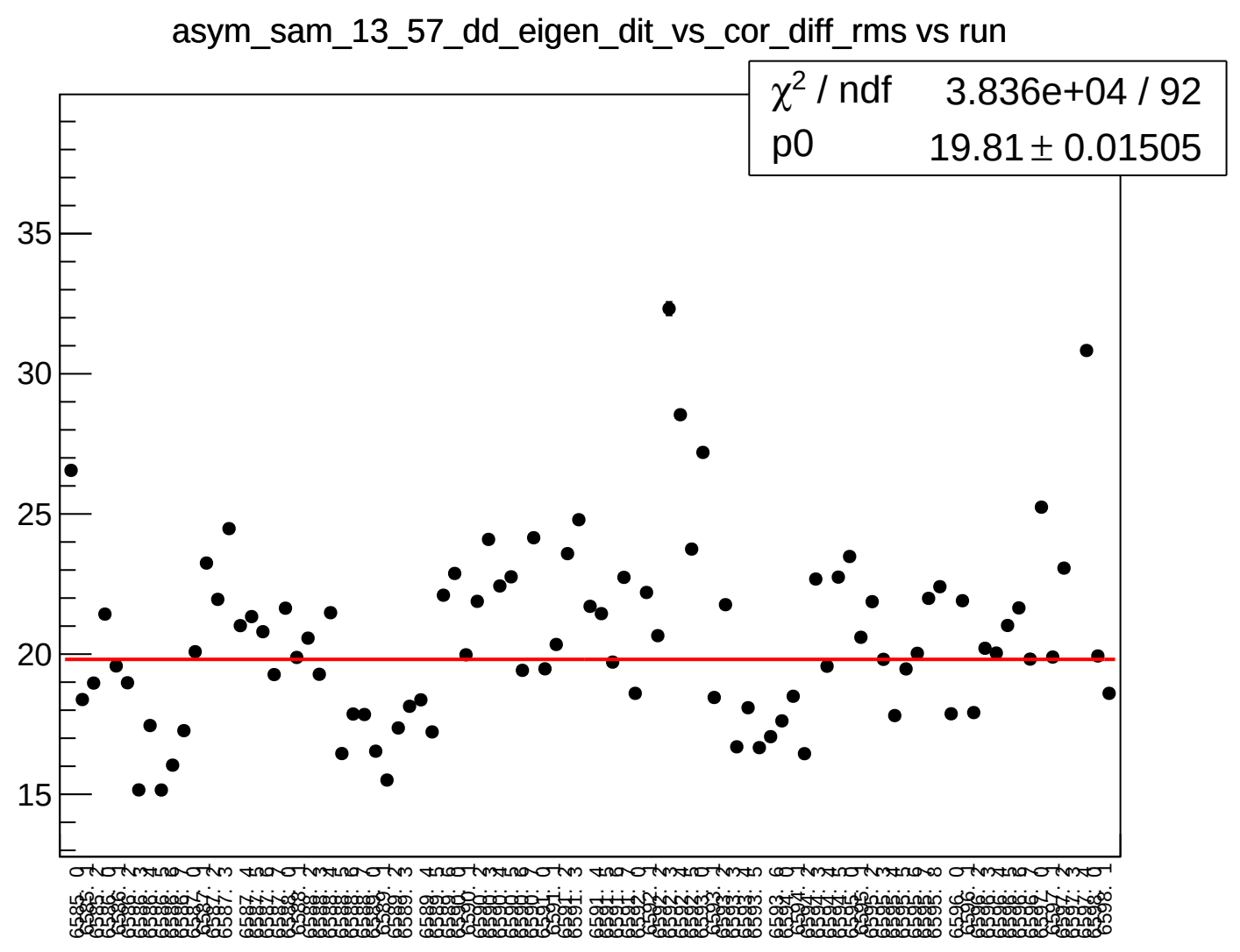

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.65 / 92
p0 0.005316 ± 0.02129
pull
Entries 93
Mean 23.74
Std Dev 16.74
pull1D
Entries 93
Mean 0.01516
Std Dev 1.025

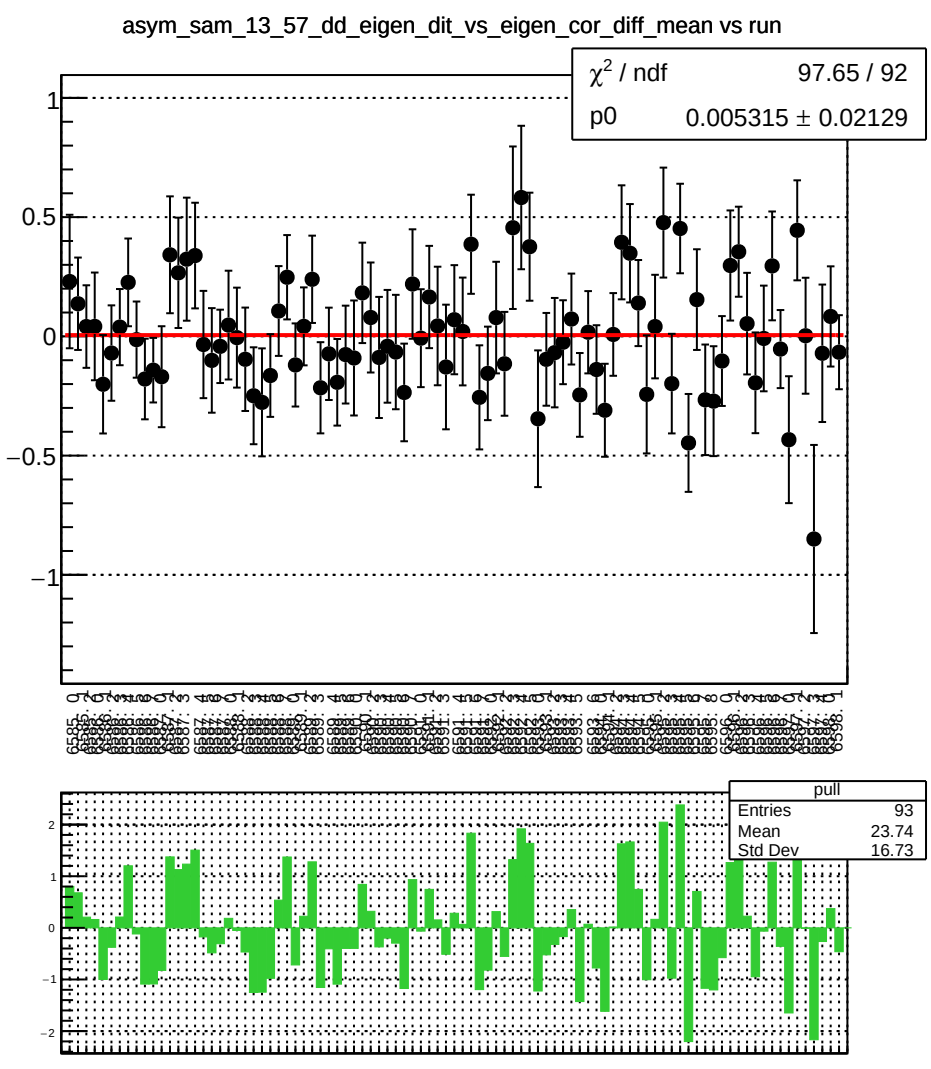

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.836e+04 / 92
p0 19.81 ± 0.01505
35
30
25
20
15

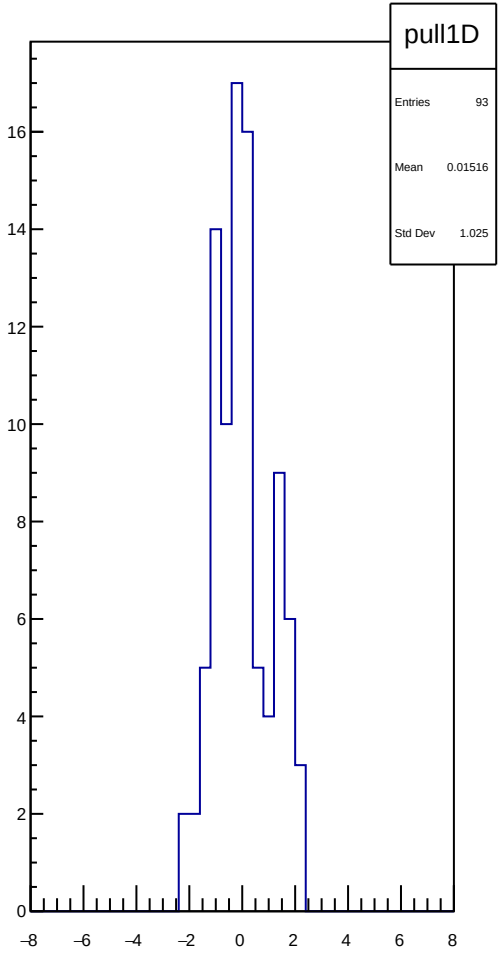

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.5 / 92
p0 −3.321e−07 ± 9.686e−07
pull
Entries 93
Mean −325.6
Std Dev 171.2
pull1D
Entries 93
Mean −0.0005793
Std Dev 1.124

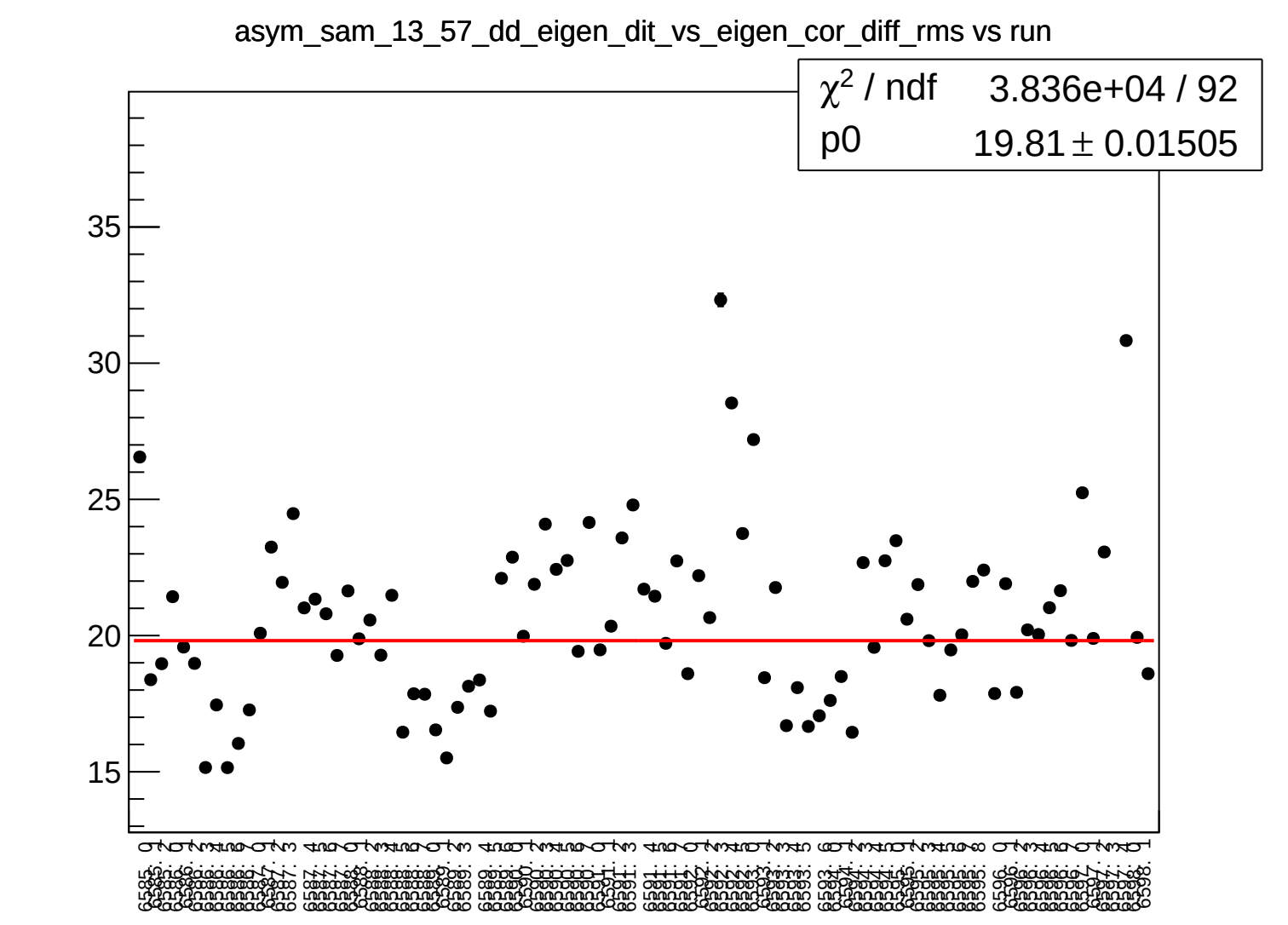

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7595 / 92
p0 0.0009094 ± 6.849e−07
0.00105
0.001
0.00095
0.0009
0.00085
0.0008

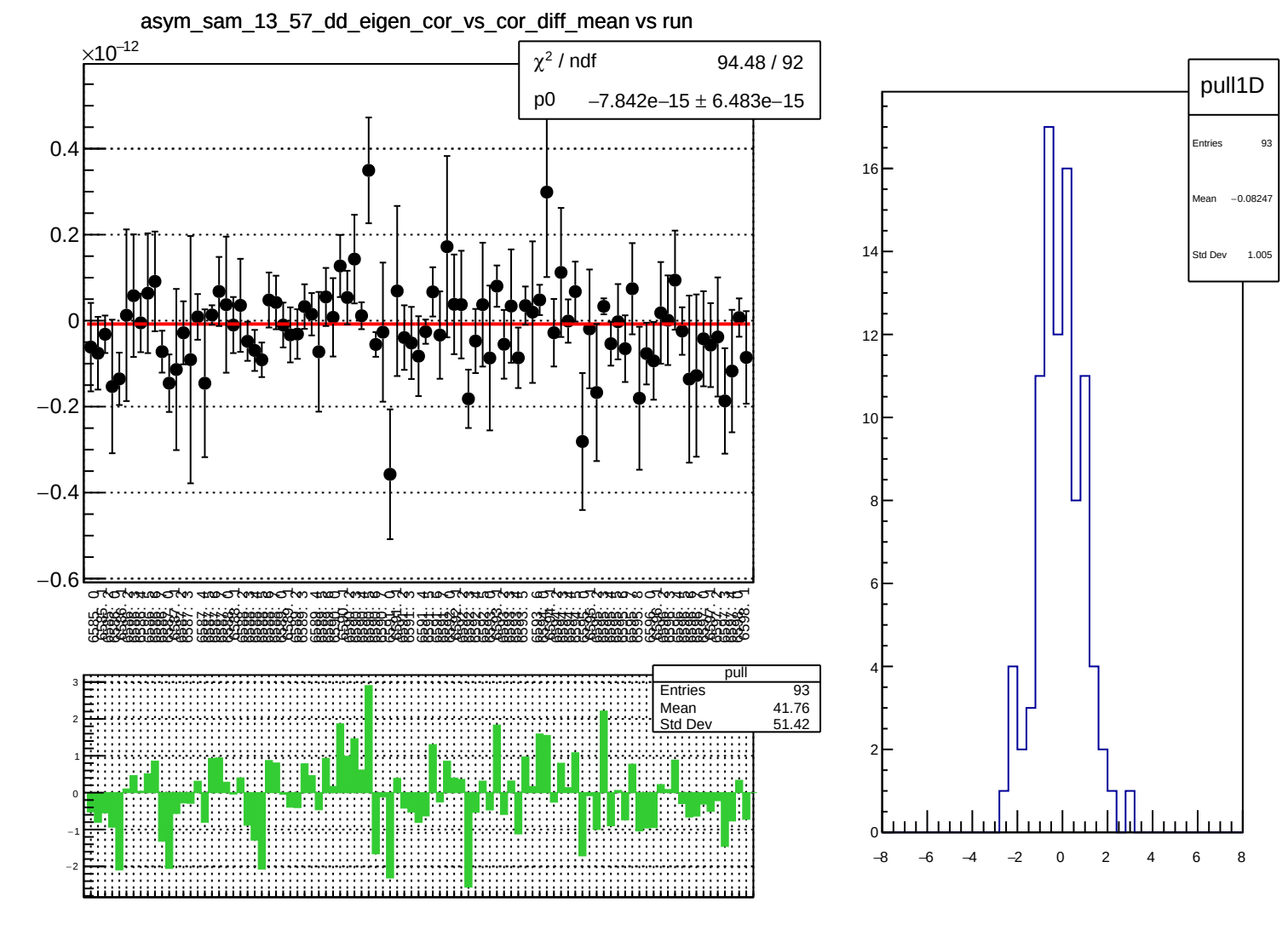

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.65 / 92
p0 0.005315 ± 0.02129
pull
Entries 93
Mean 23.74
Std Dev 16.73
pull1D
Entries 93
Mean 0.01516
Std Dev 1.025

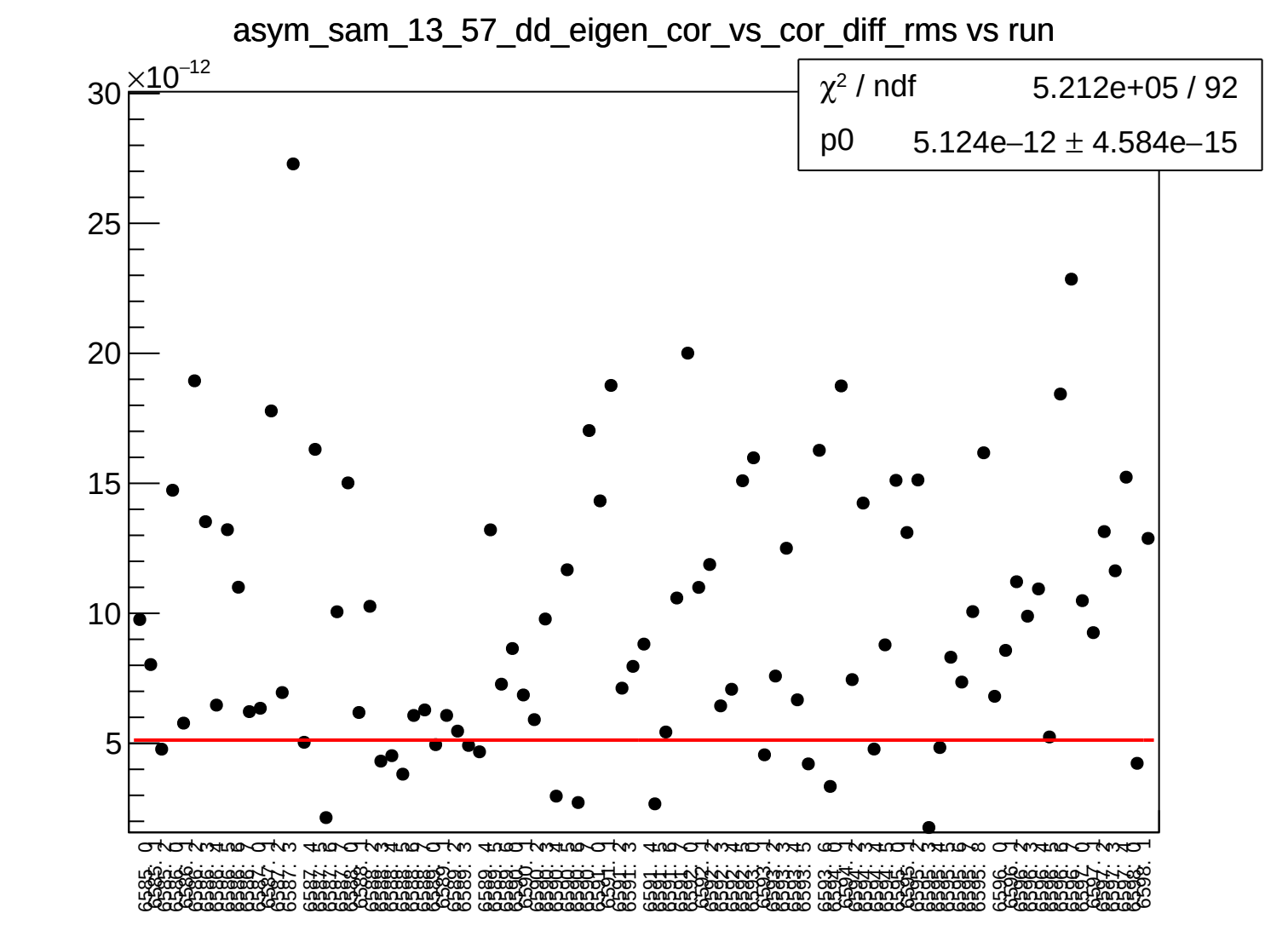

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.836e+04 / 92
p0 19.81 ± 0.01505
35
30
25
20
15

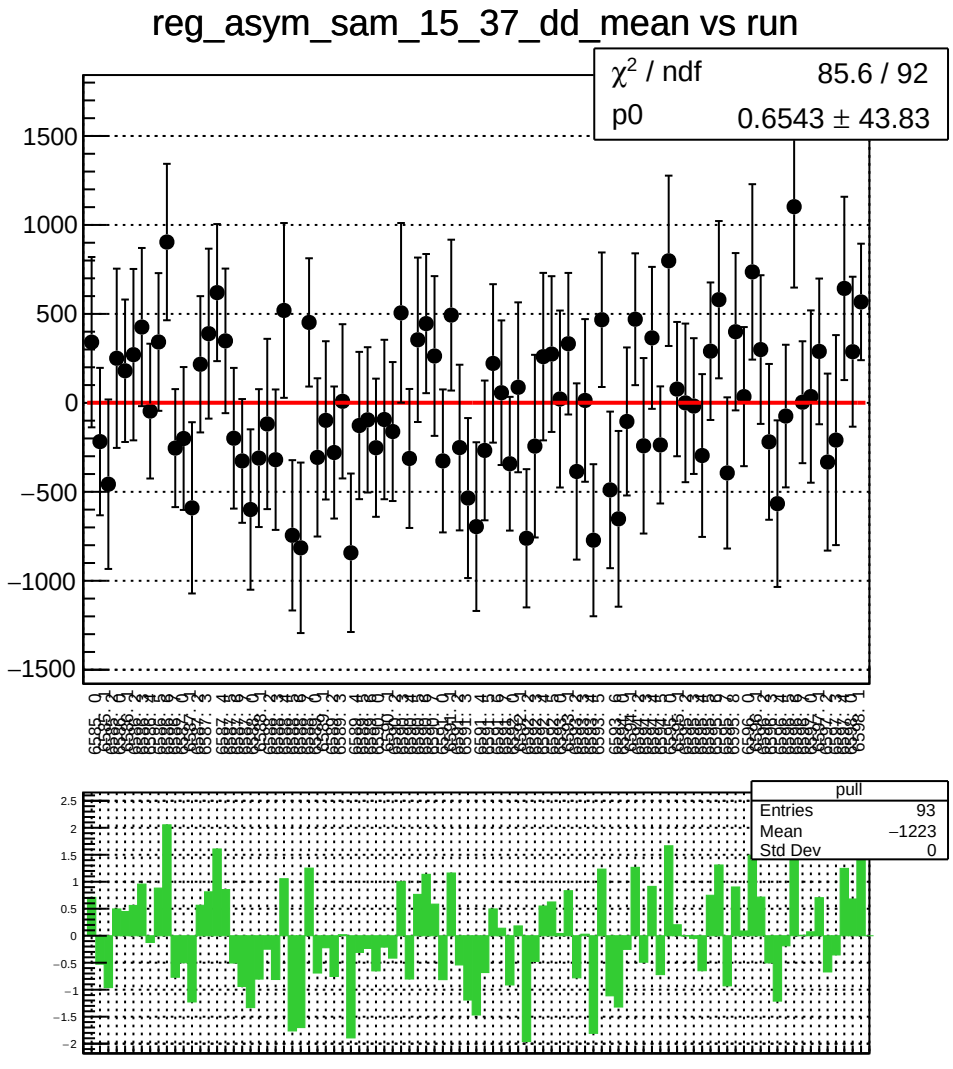

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.65 / 92
p0 0.005315 ± 0.02129
pull
Entries 93
Mean 23.74
Std Dev 16.73

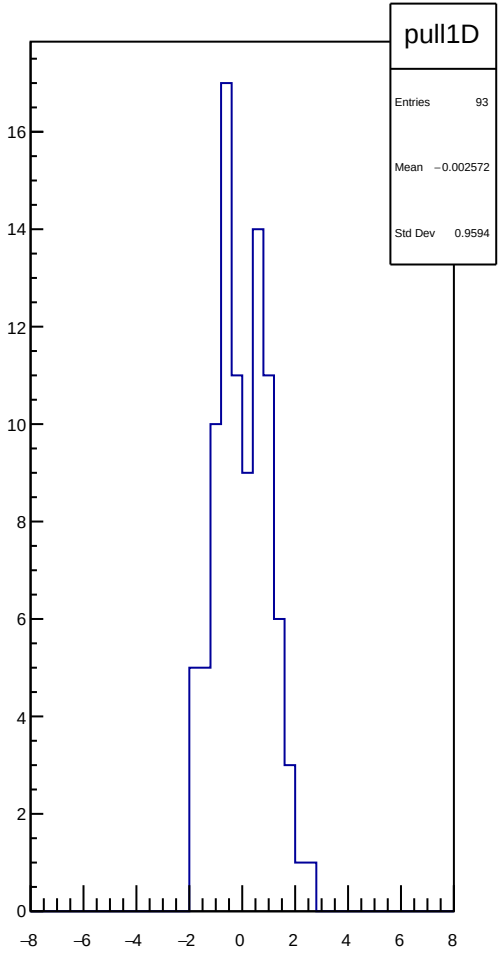

pull1D
Entries 93
Mean 0.01516
Std Dev 1.025

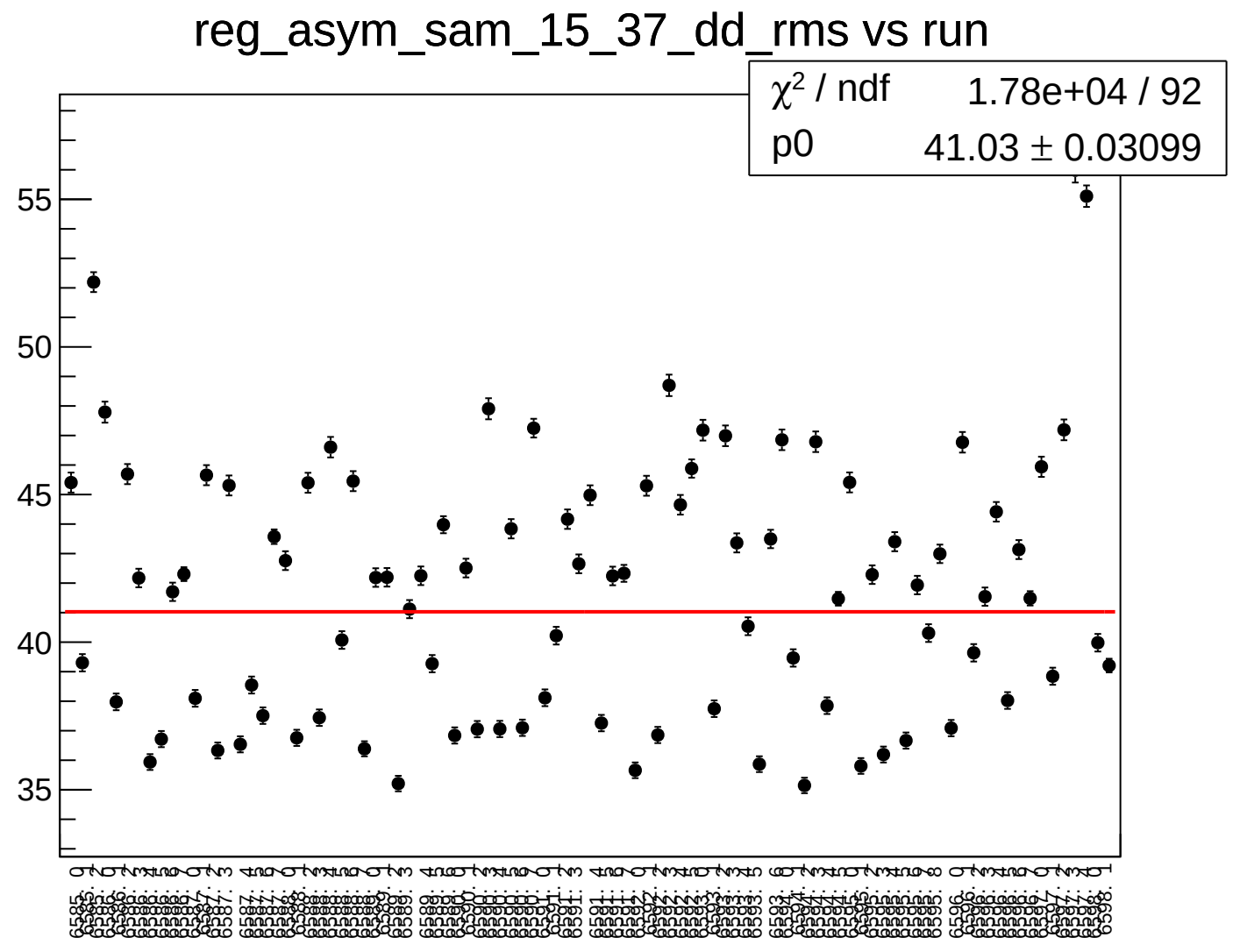

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.836e+04 / 92
p0 19.81 ± 0.01505
35
30
25
20
15

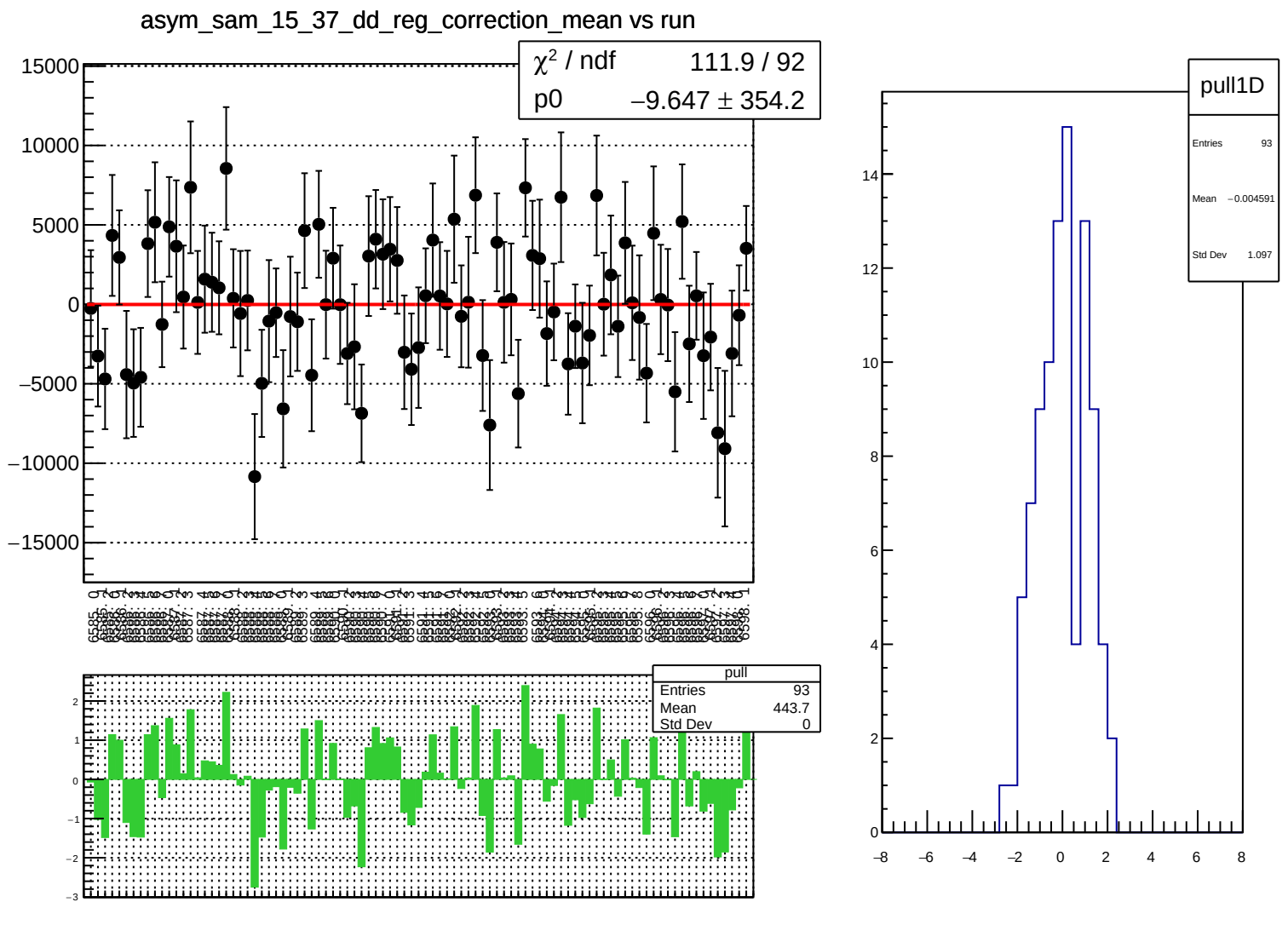

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.48 / 92
p0 −7.842e−15 ± 6.483e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 93
Mean 41.76
Std Dev 51.42
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.08247
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

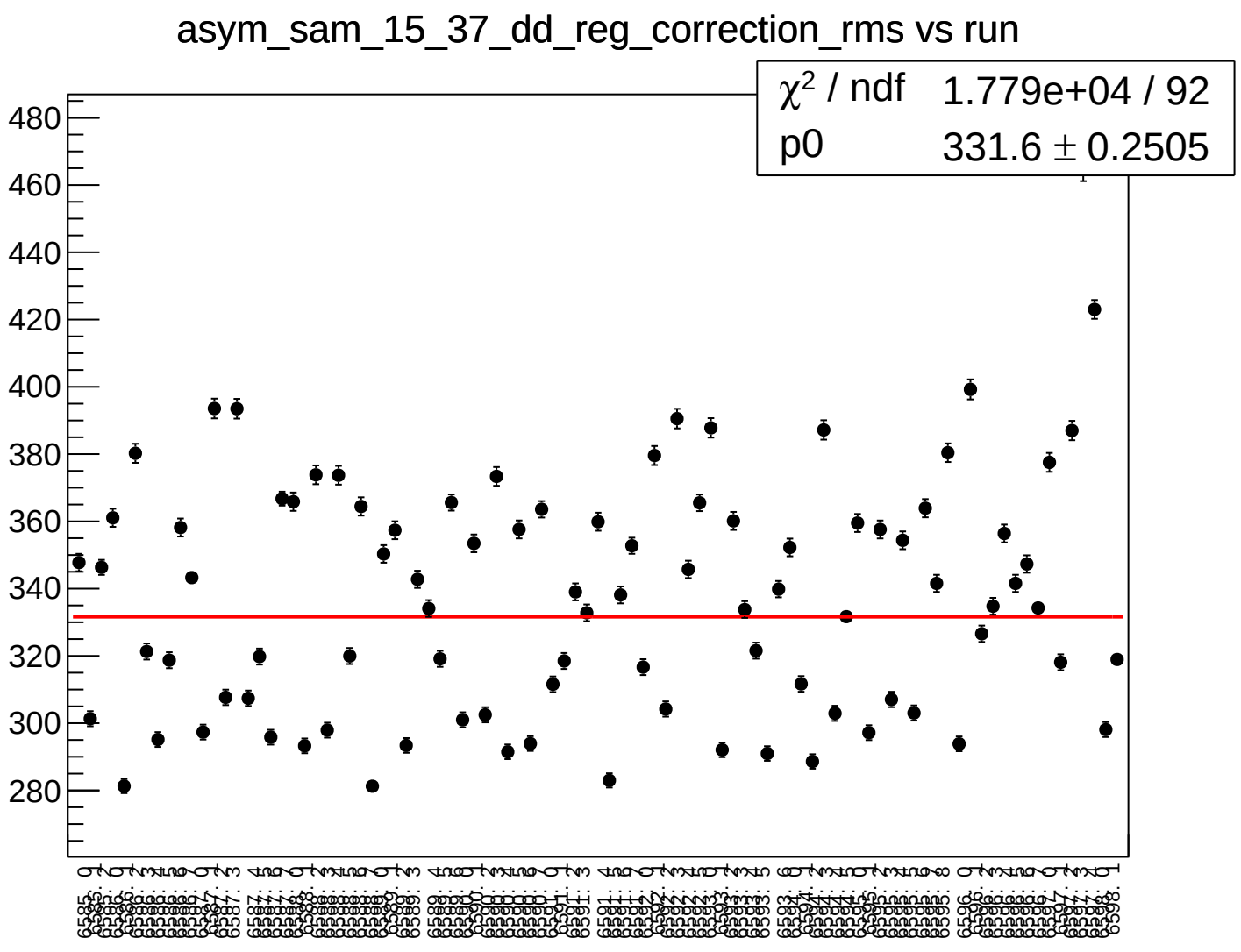

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
30
25
20
15
10
5
χ² / ndf 5.212e+05 / 92
p0 5.124e−12 ± 4.584e−15

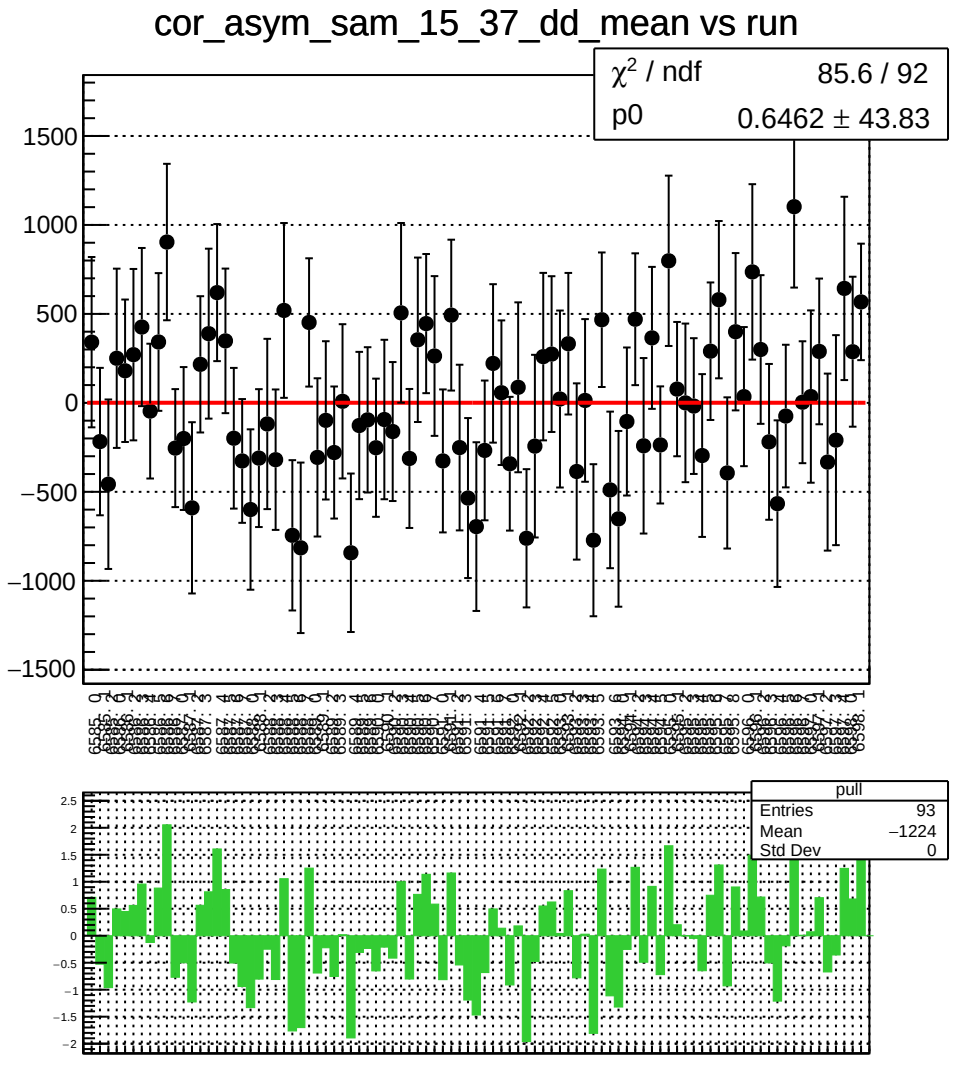

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.6 / 92
p0 0.6543 ± 43.83
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −1223
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

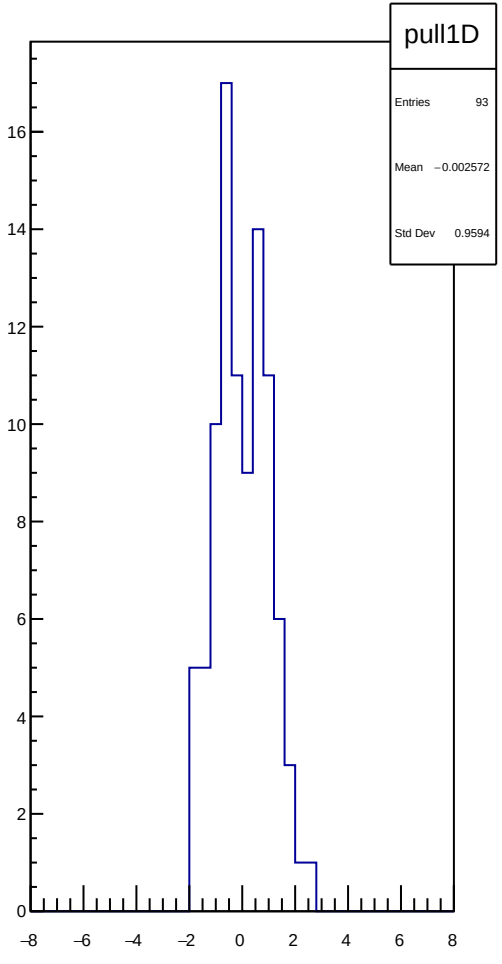

pull1D
Entries 93
Mean −0.002572
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

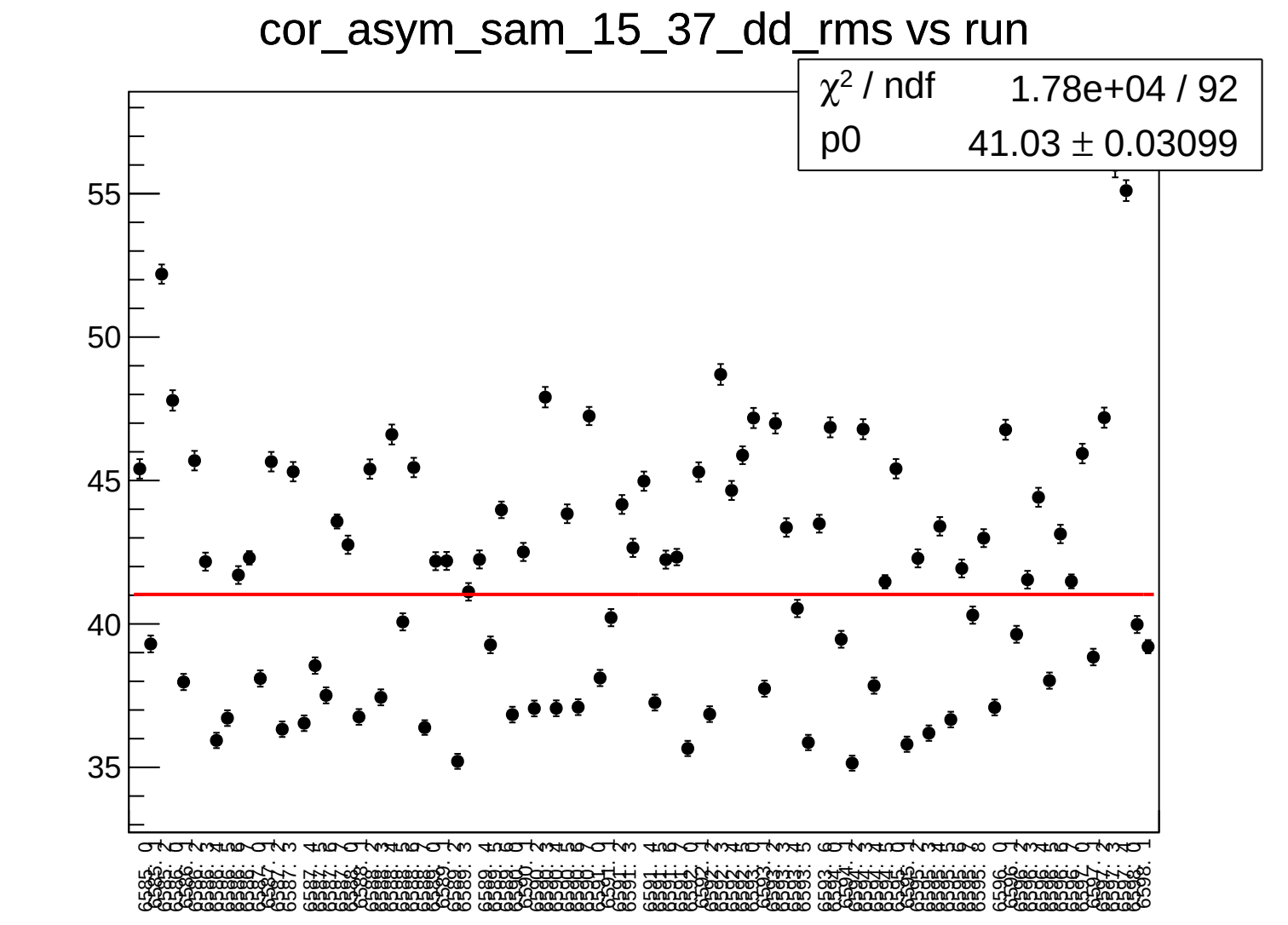

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.78e+04 / 92
p0 41.03 ± 0.03099
55
50
45
40
35

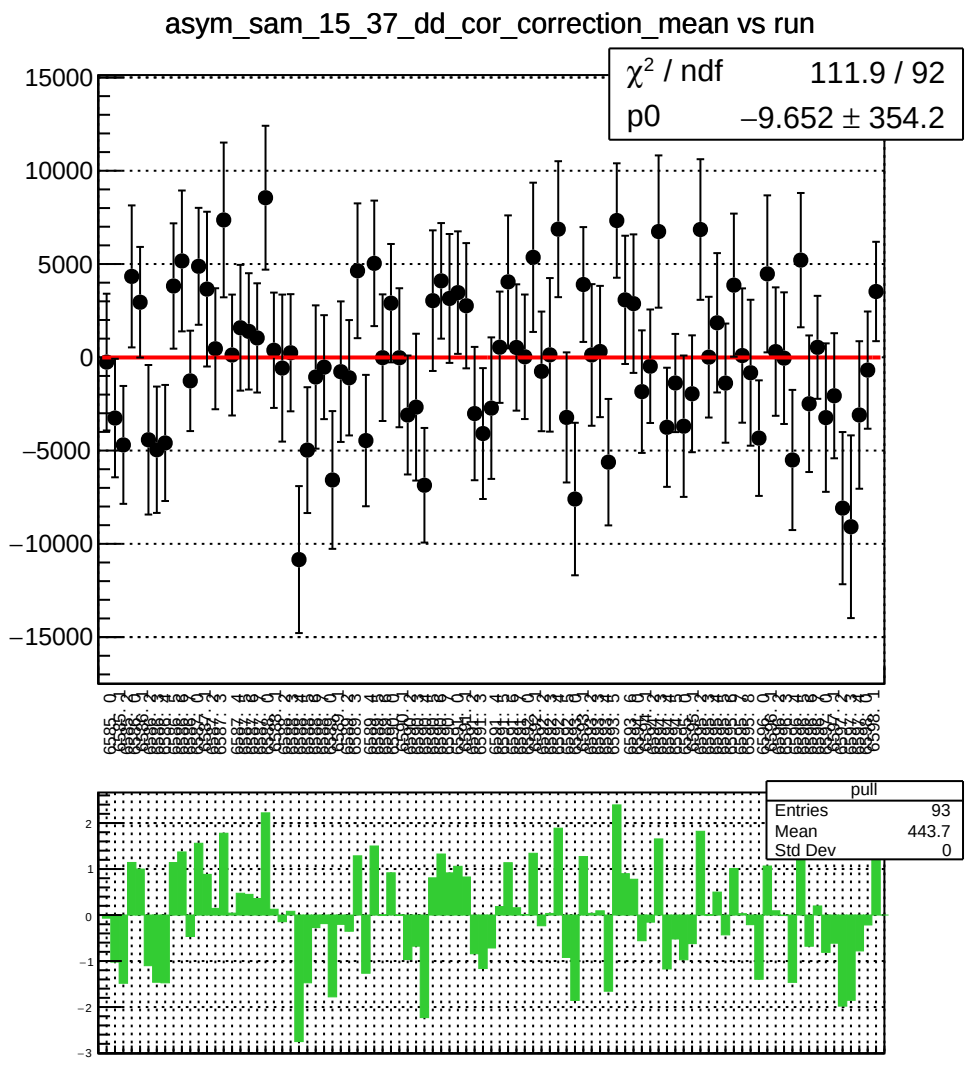

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 111.9 / 92
p0 −9.647 ± 354.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 443.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.004591
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

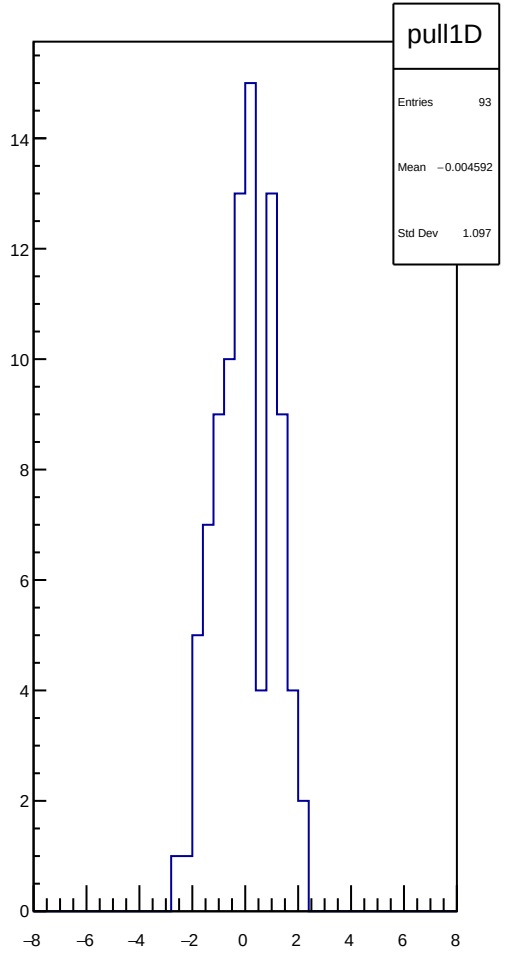

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.779e+04 / 92
p0 331.6 ± 0.2505
480
460
440
420
400
380
360
340
320
300
280

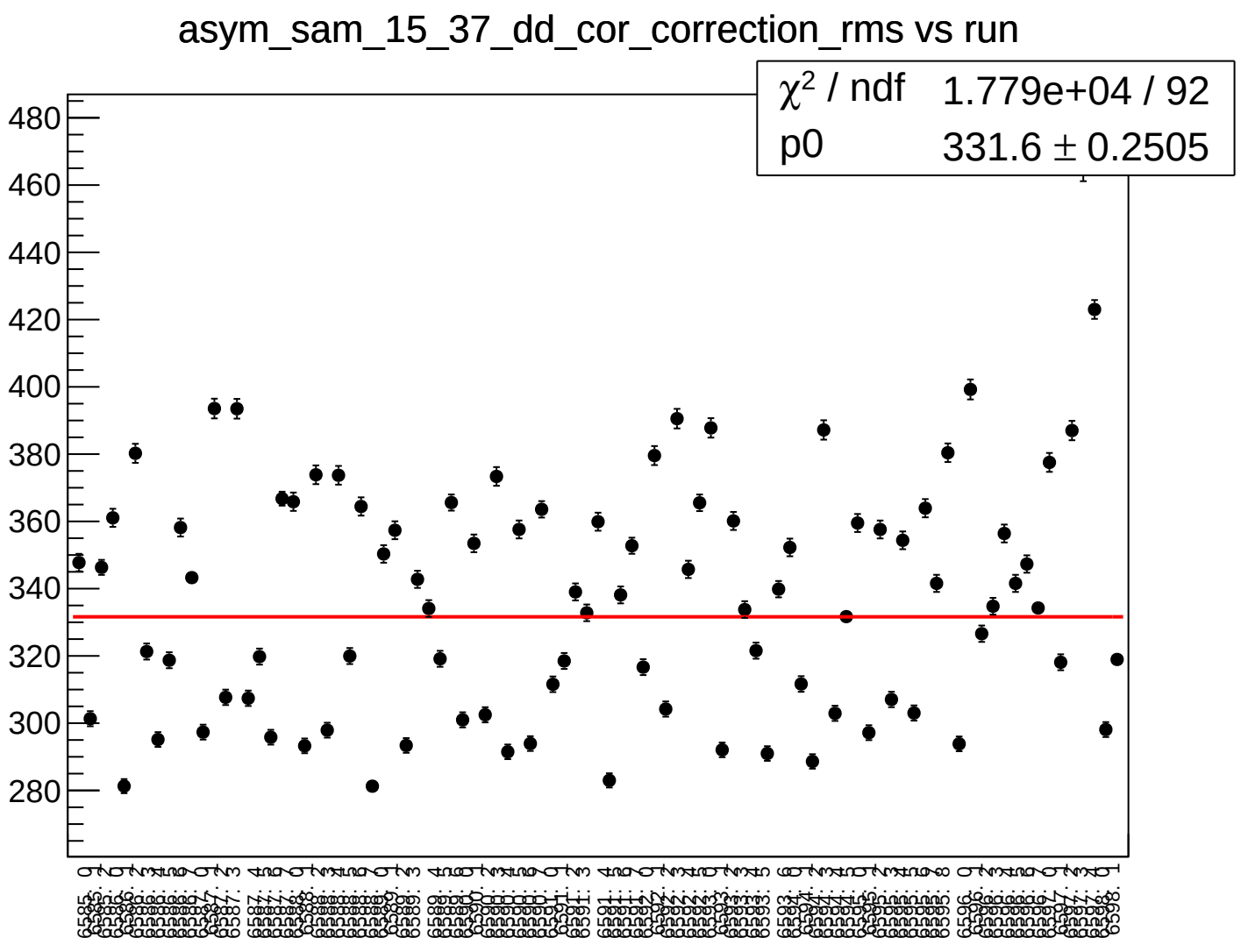

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.6 / 92
p0 0.6462 ± 43.83
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −1224
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

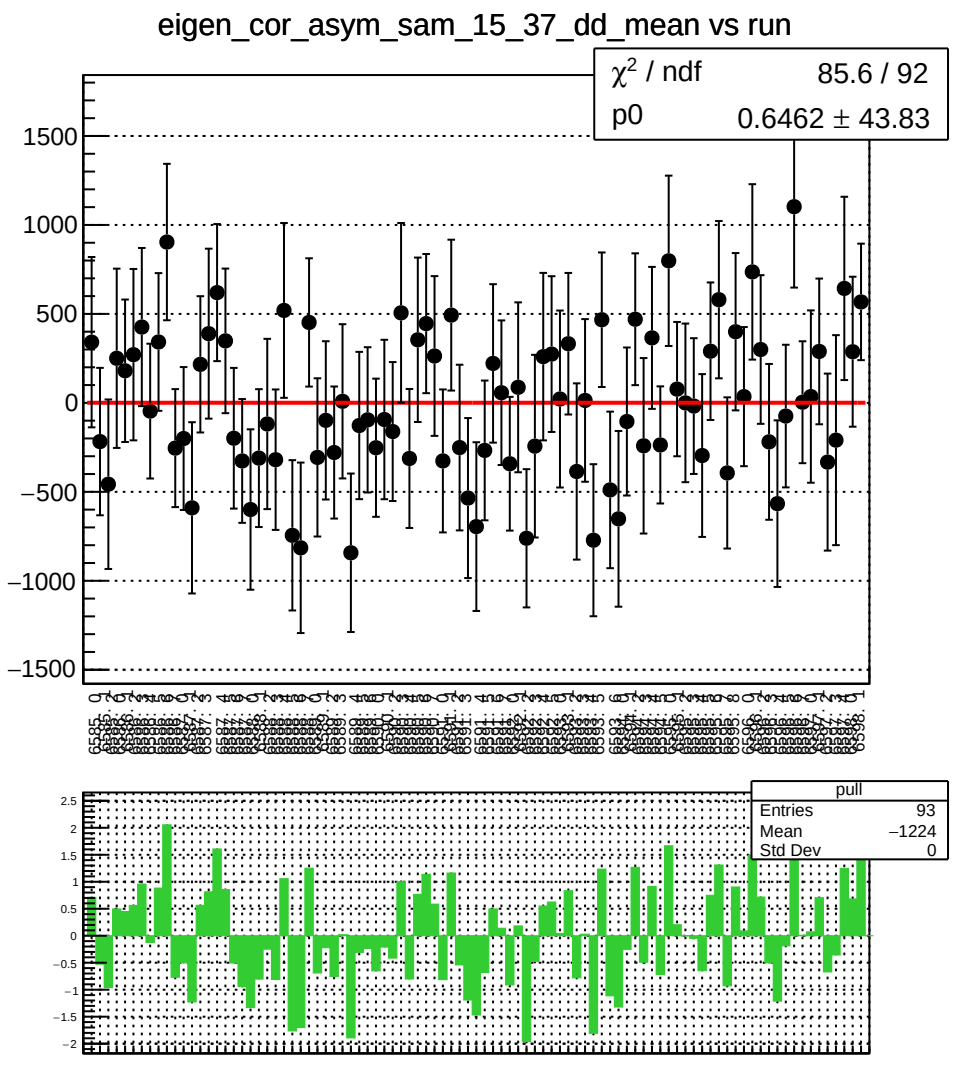

pull1D
Entries 93
Mean −0.002572
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

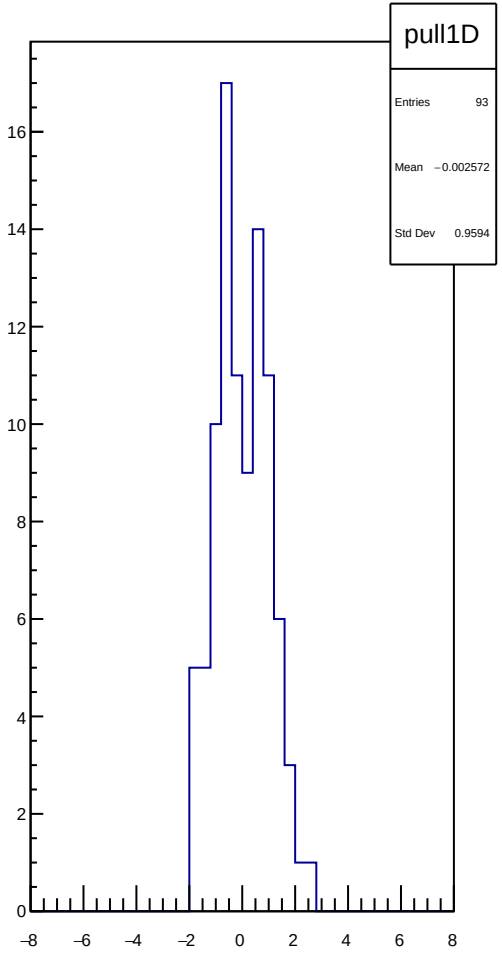

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.78e+04 / 92
p0 41.03 ± 0.03099
55
50
45
40
35

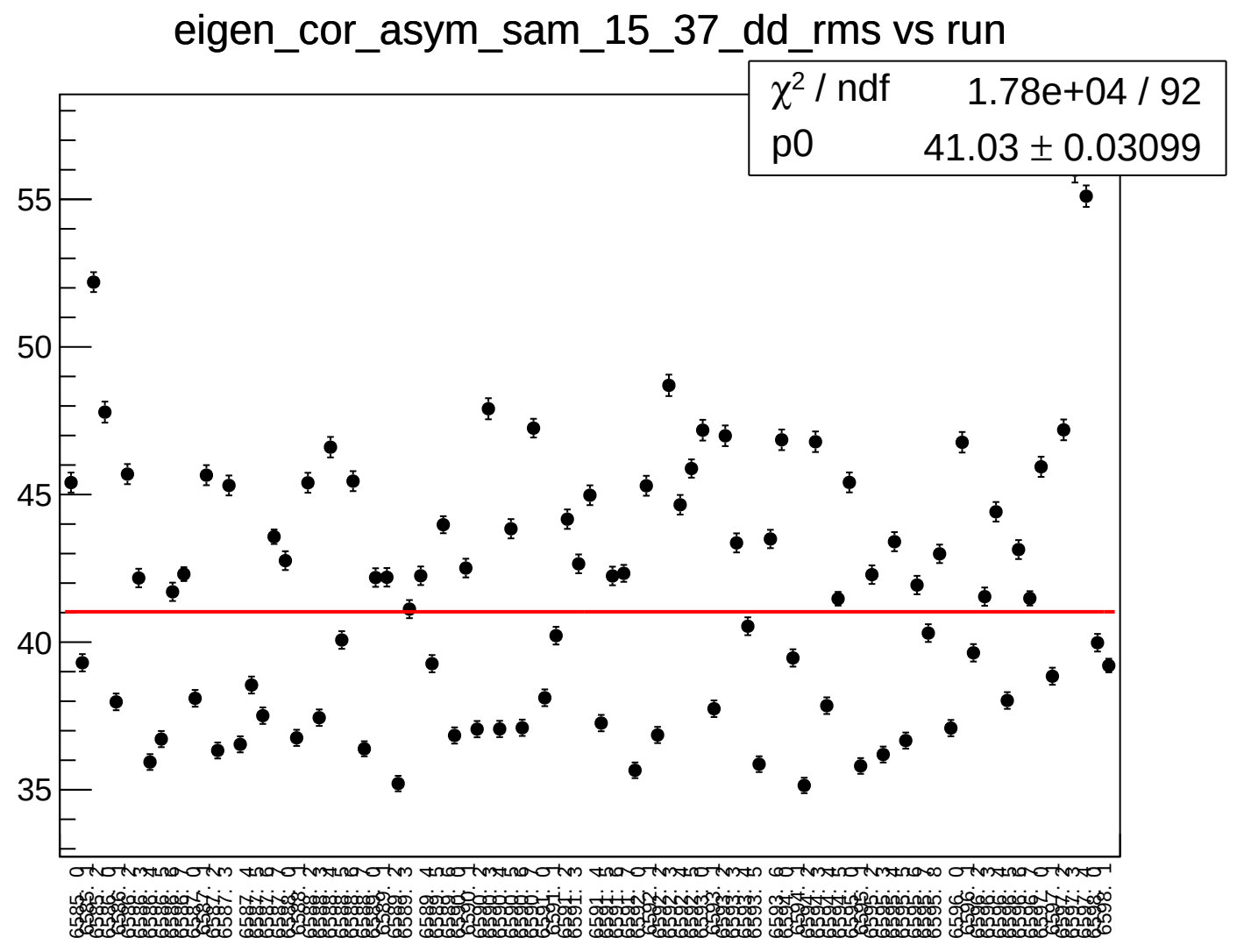

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 111.9 / 92
p0 −9.652 ± 354.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 443.7
Std Dev 0
2
1
0
−1
−2
−3

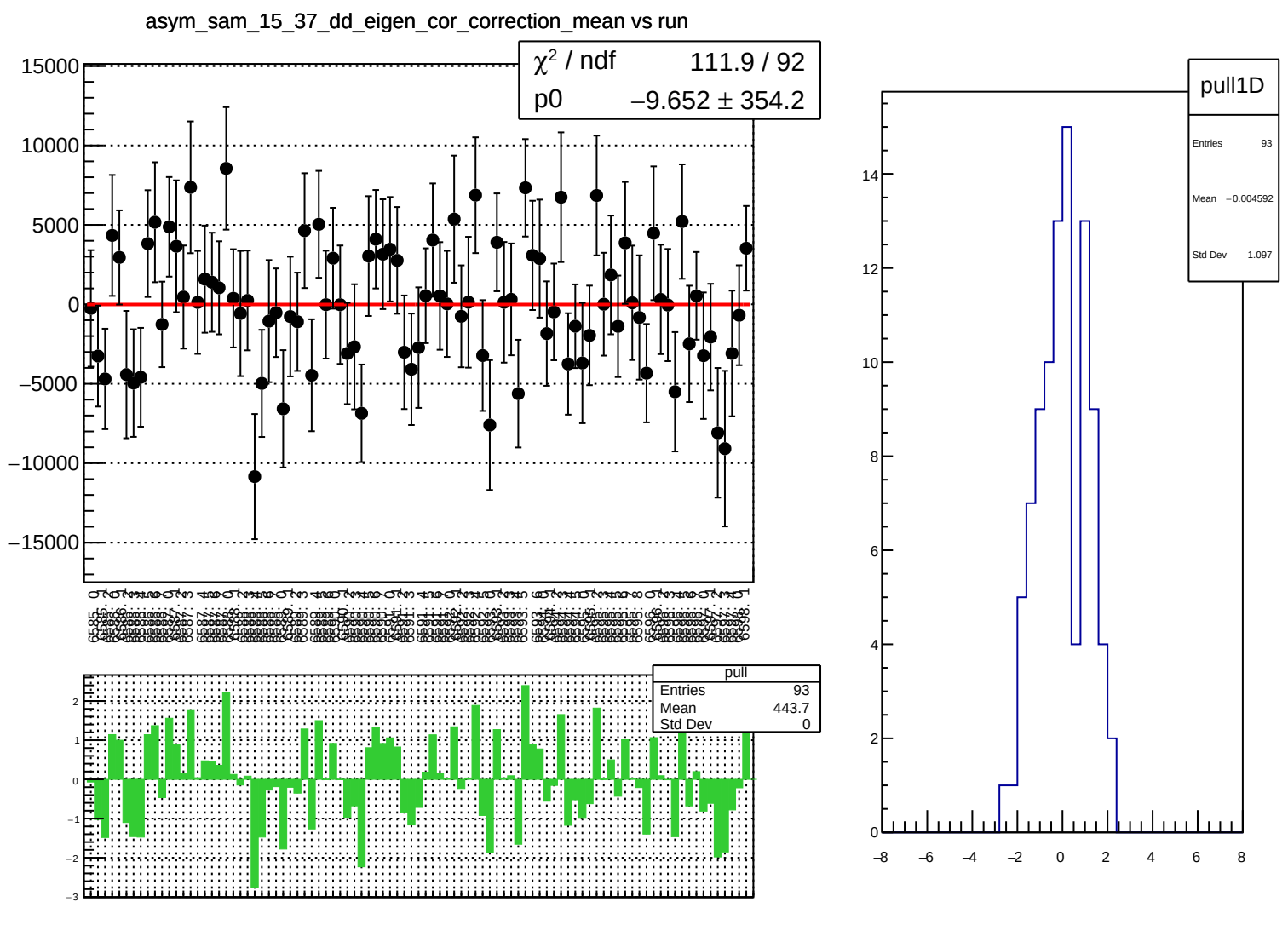

pull1D
Entries 93
Mean −0.004592
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

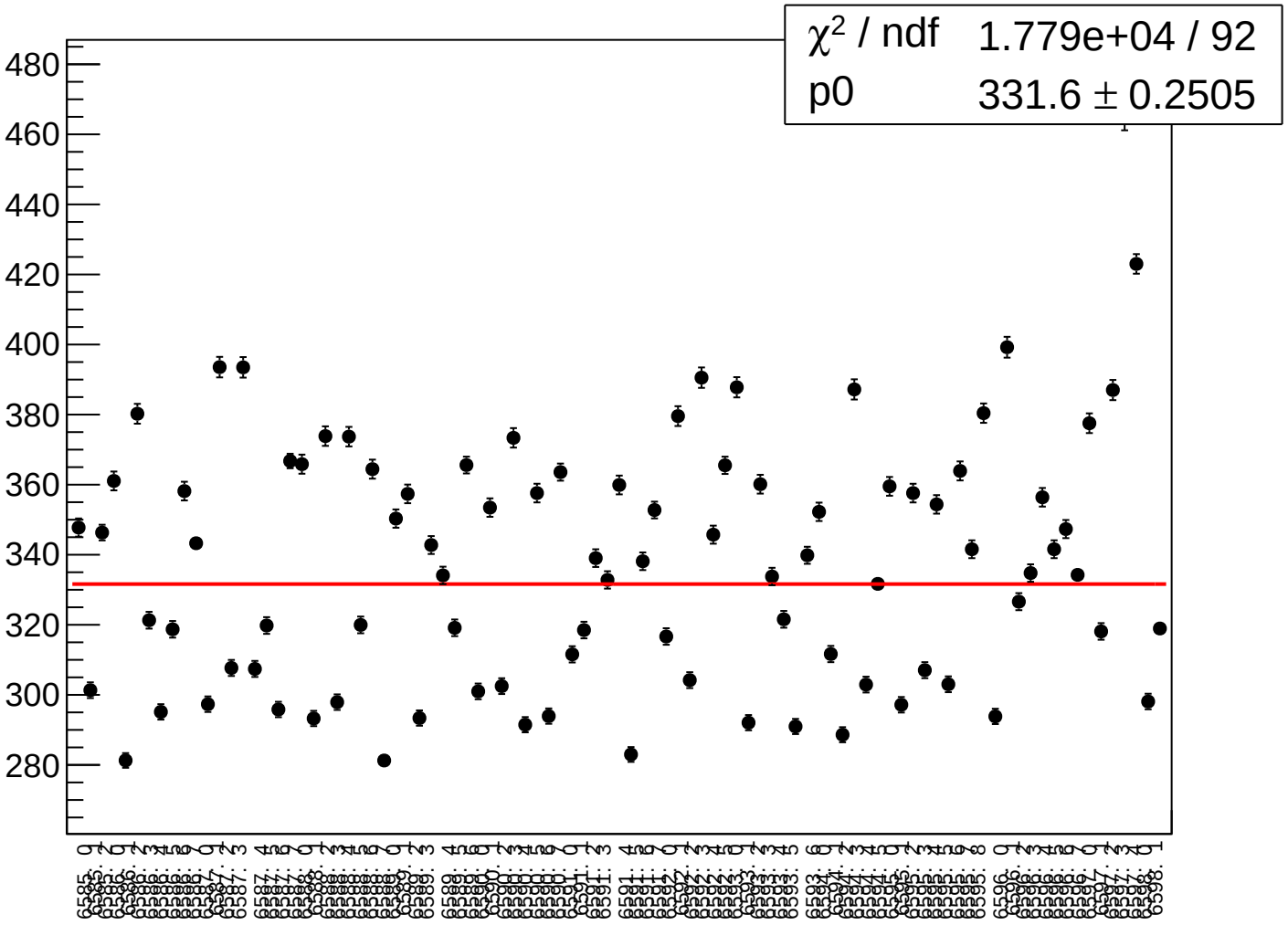

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.779e+04 / 92
p0 331.6 ± 0.2505
480
460
440
420
400
380
360
340
320
300
280

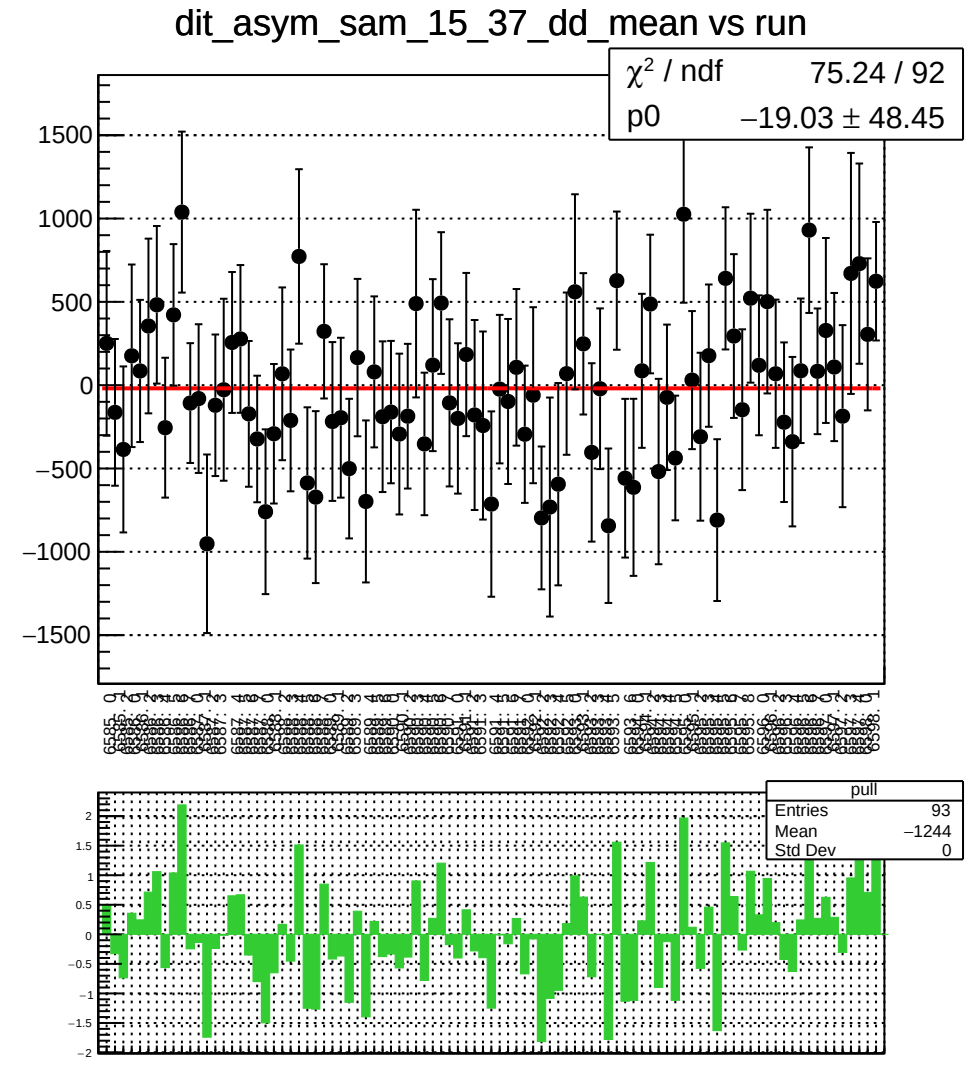

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.6 / 92
p0 0.6462 ± 43.83
pull
Entries 93
Mean −1224
Std Dev 0

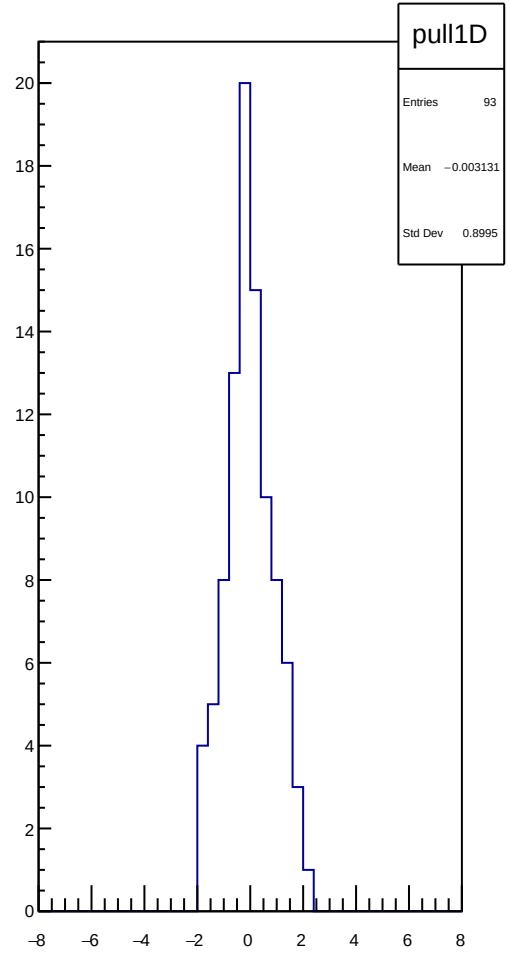

pull1D
Entries 93
Mean −0.002572
Std Dev 0.9594

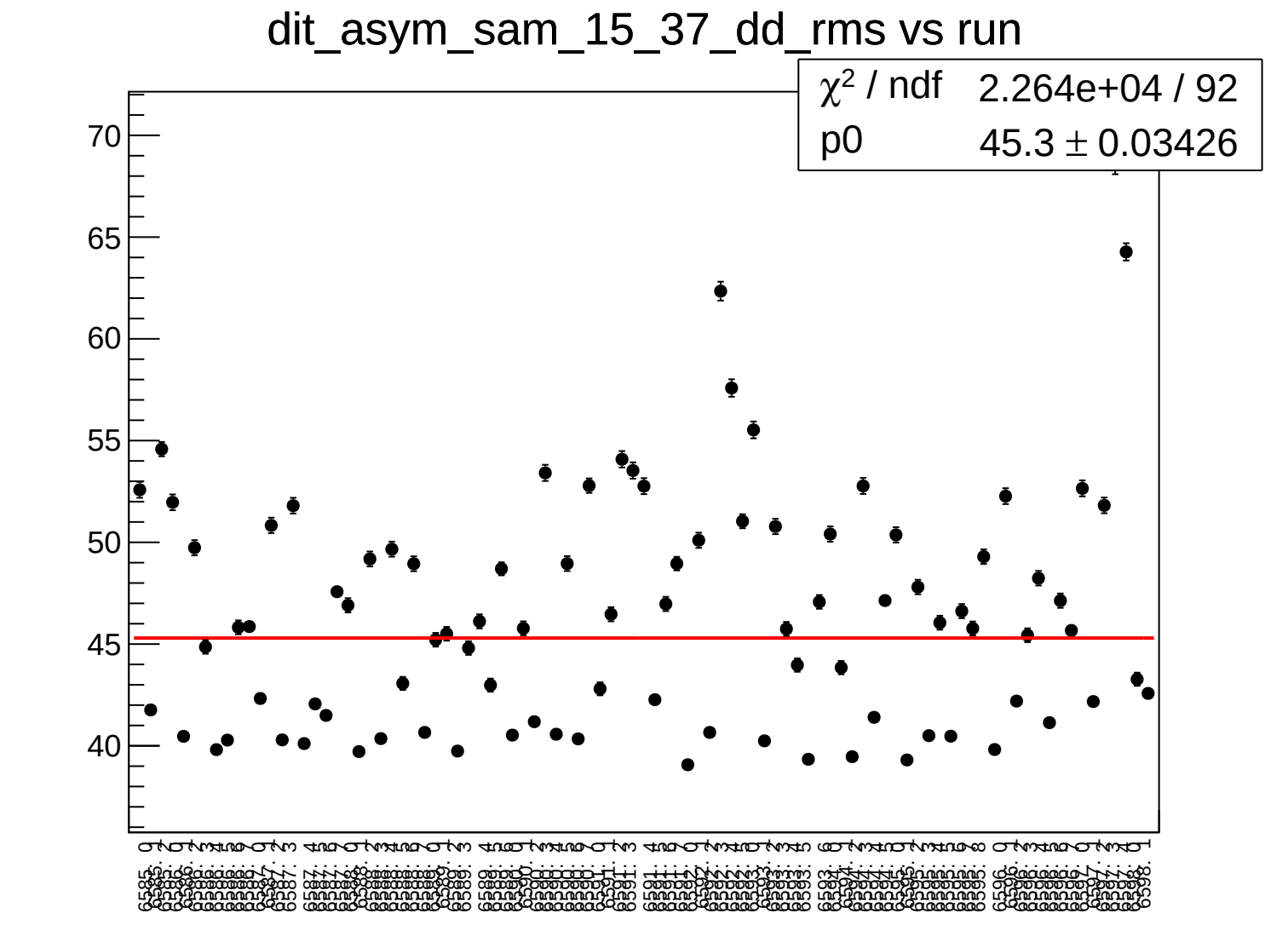

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.78e+04 / 92
p0 41.03 ± 0.03099
55
50
45
40
35

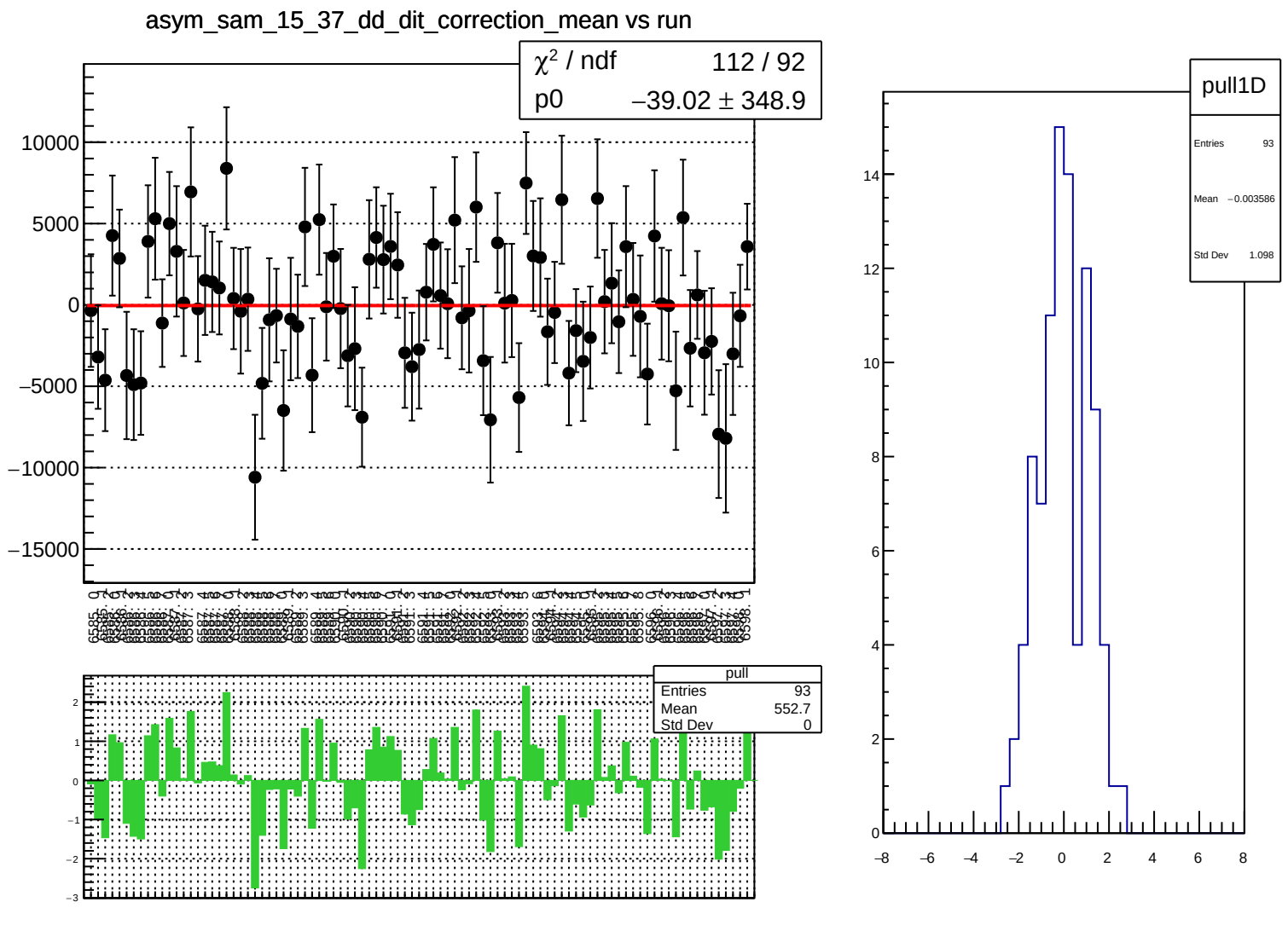

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.9 / 92
p0 −9.652 ± 354.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 443.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.004592
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

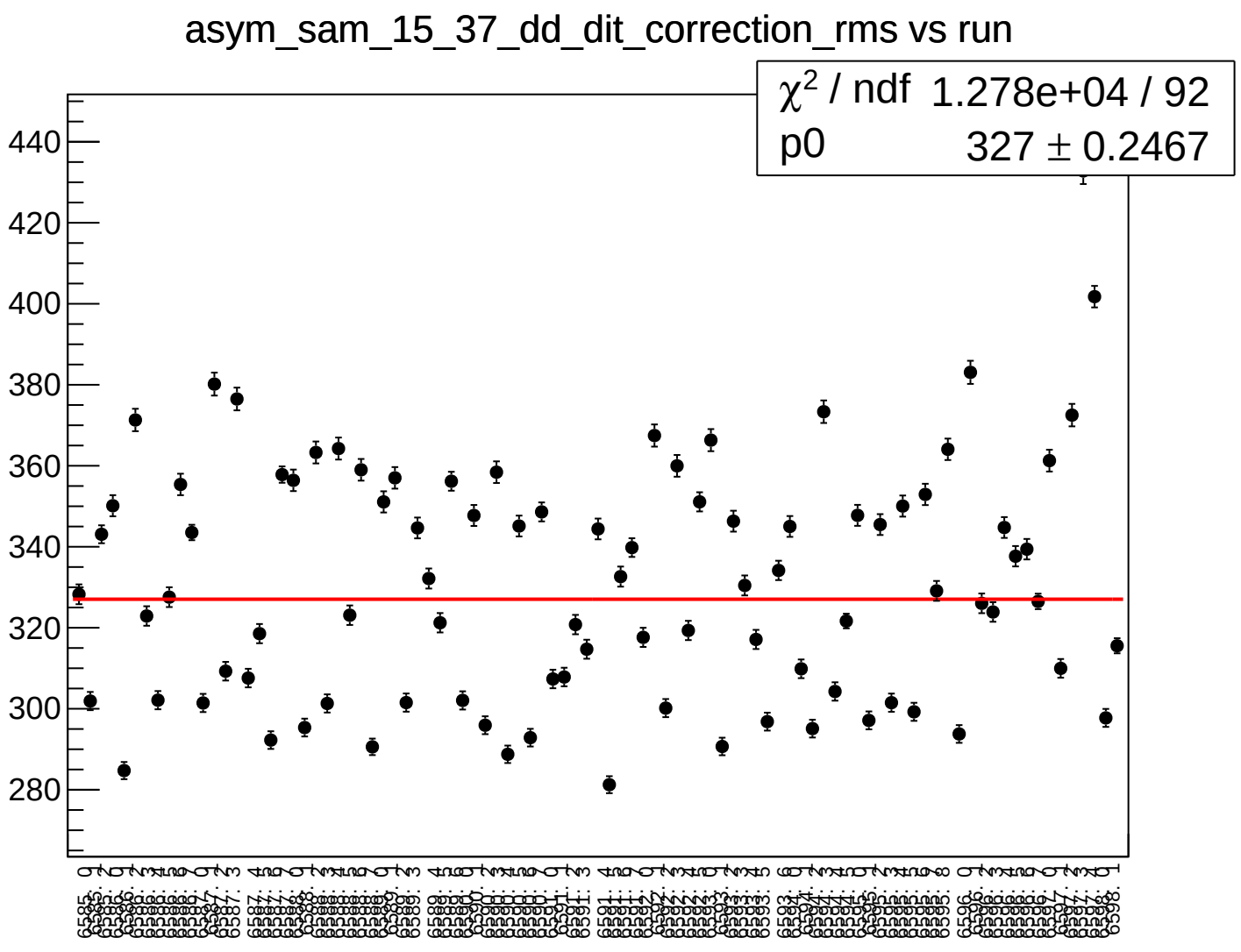

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.779e+04 / 92
p0 331.6 ± 0.2505
480
460
440
420
400
380
360
340
320
300
280

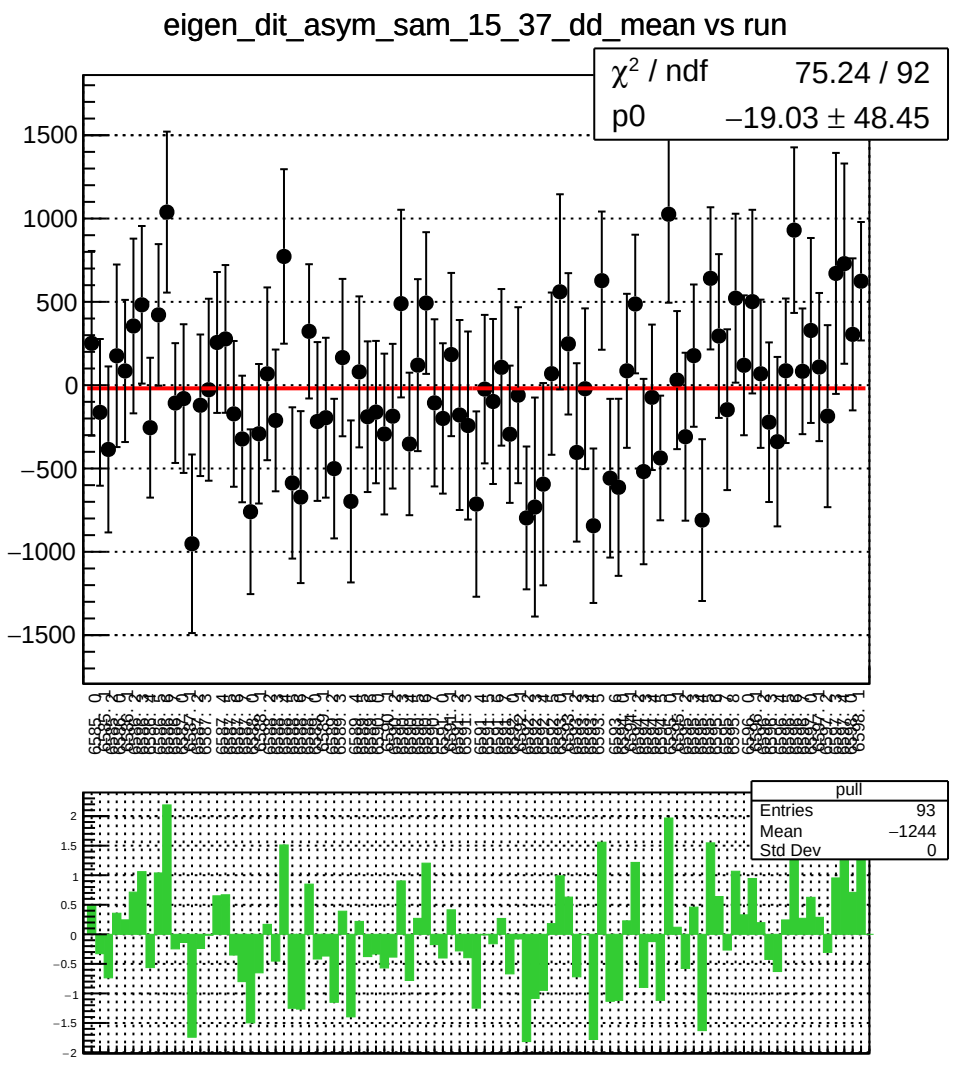

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 75.24 / 92
p0 −19.03 ± 48.45
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −1244
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

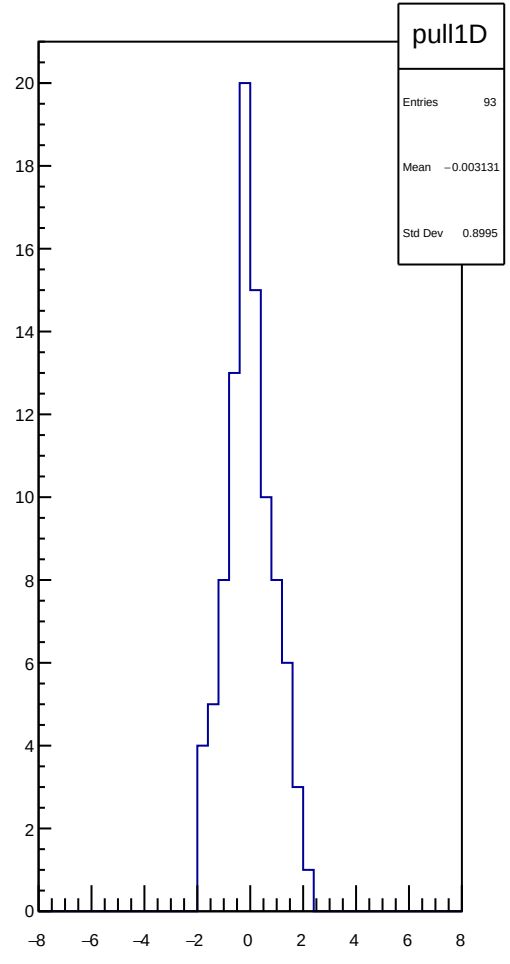

pull1D
Entries 93
Mean −0.003131
Std Dev 0.8995
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

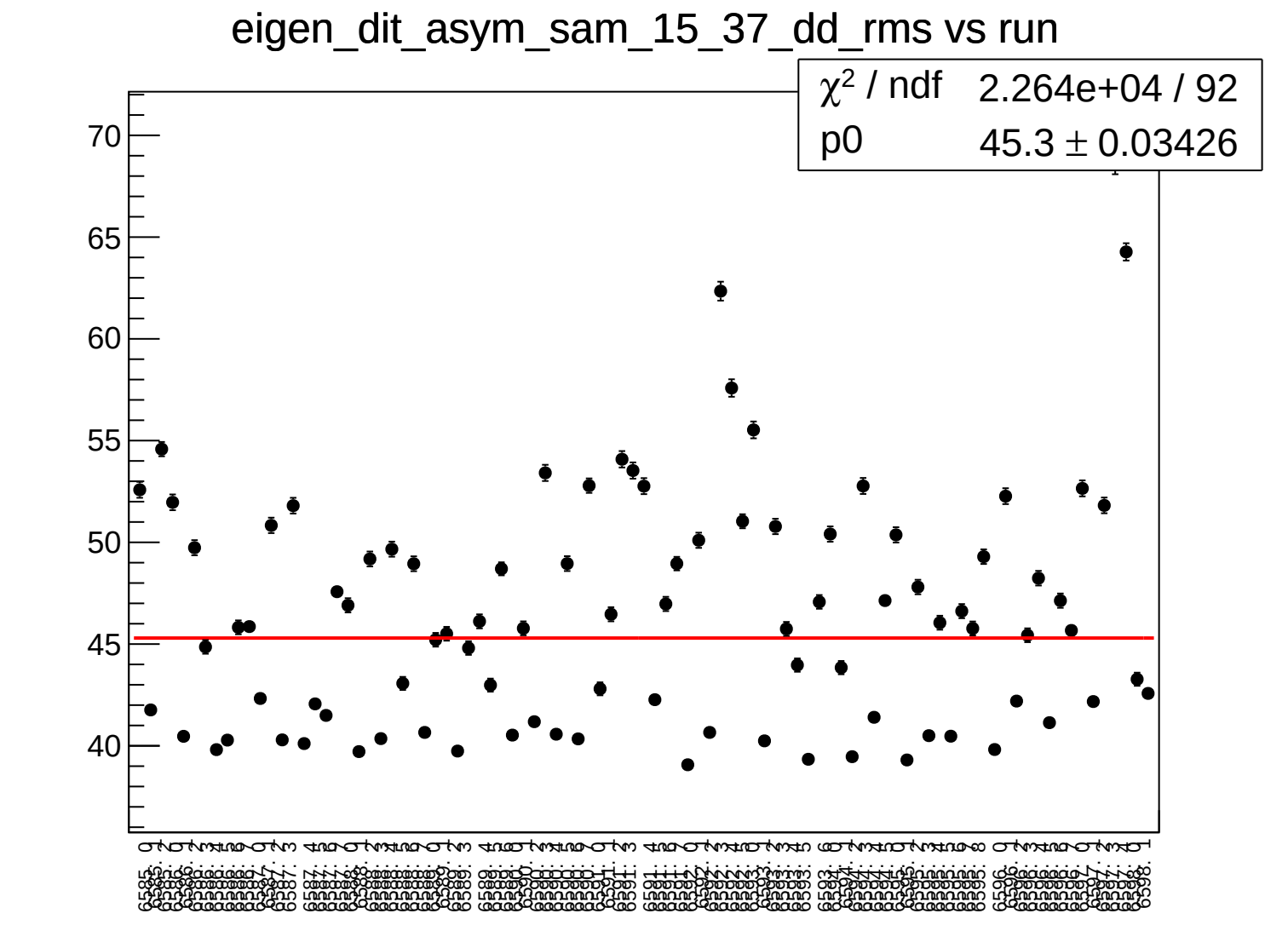

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.264e+04 / 92
p0 45.3 ± 0.03426
70
65
60
55
50
45
40

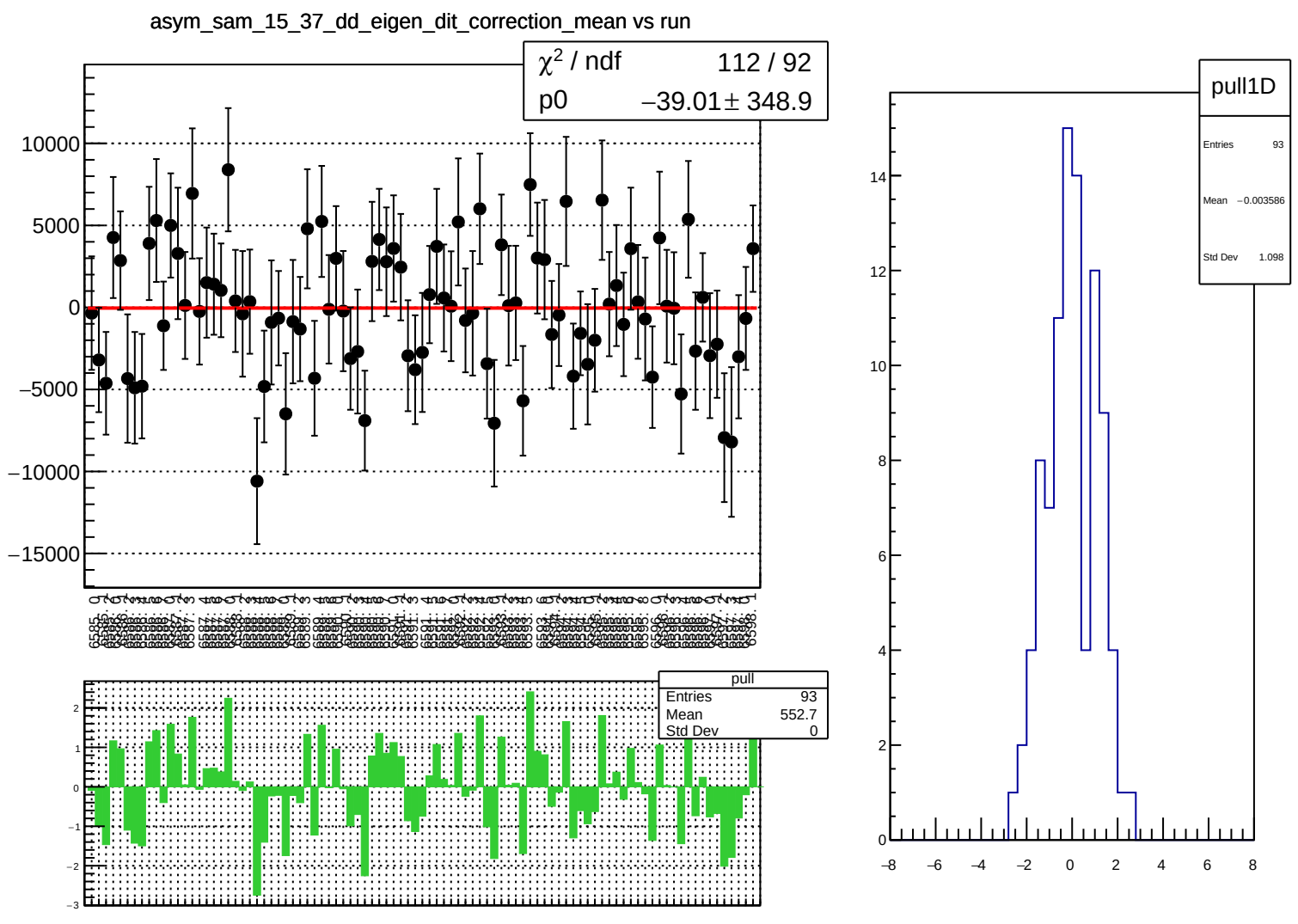

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 112 / 92
p0 −39.02 ± 348.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 552.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003586
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

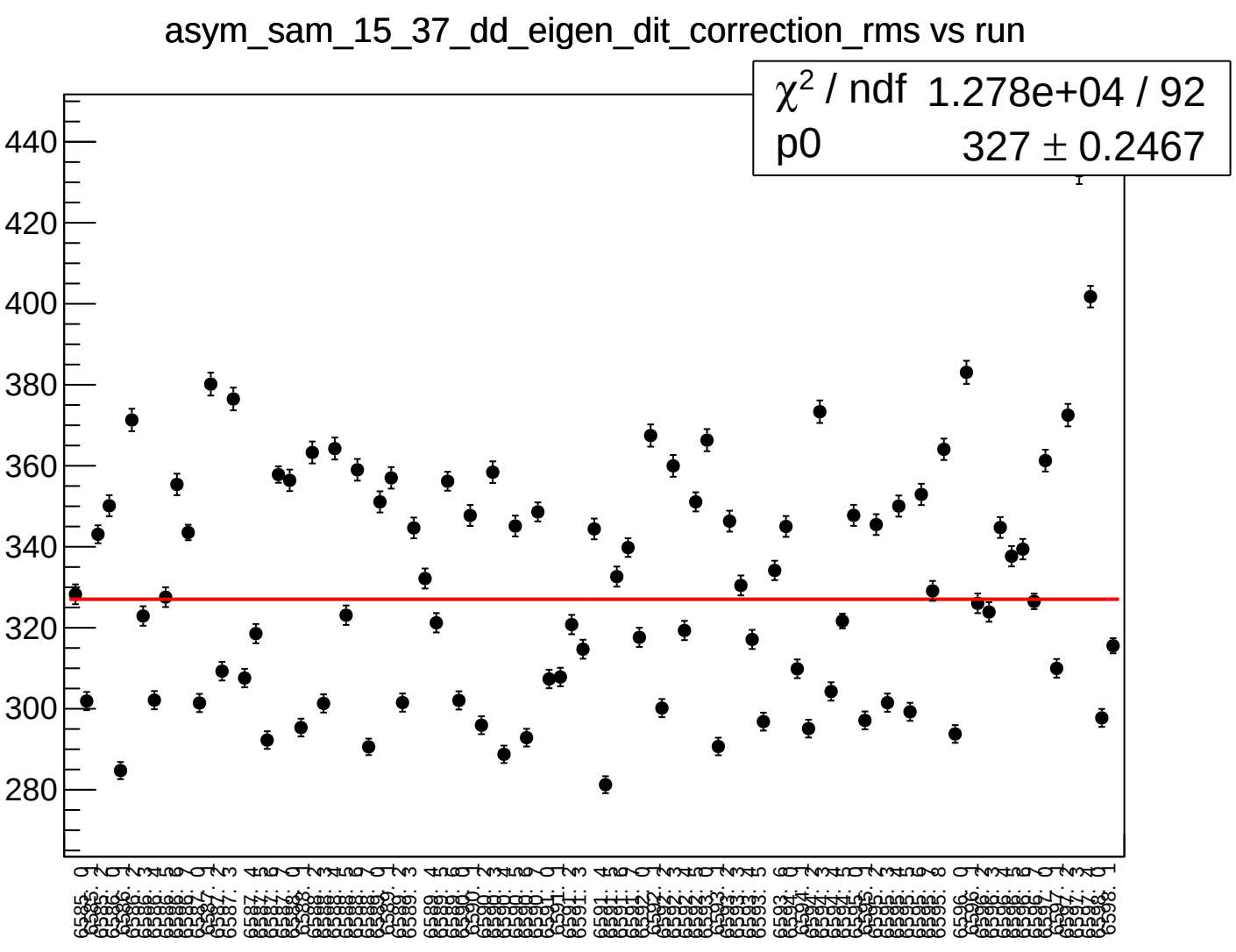

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.278e+04 / 92
p0 327 ± 0.2467
440
420
400
380
360
340
320
300
280

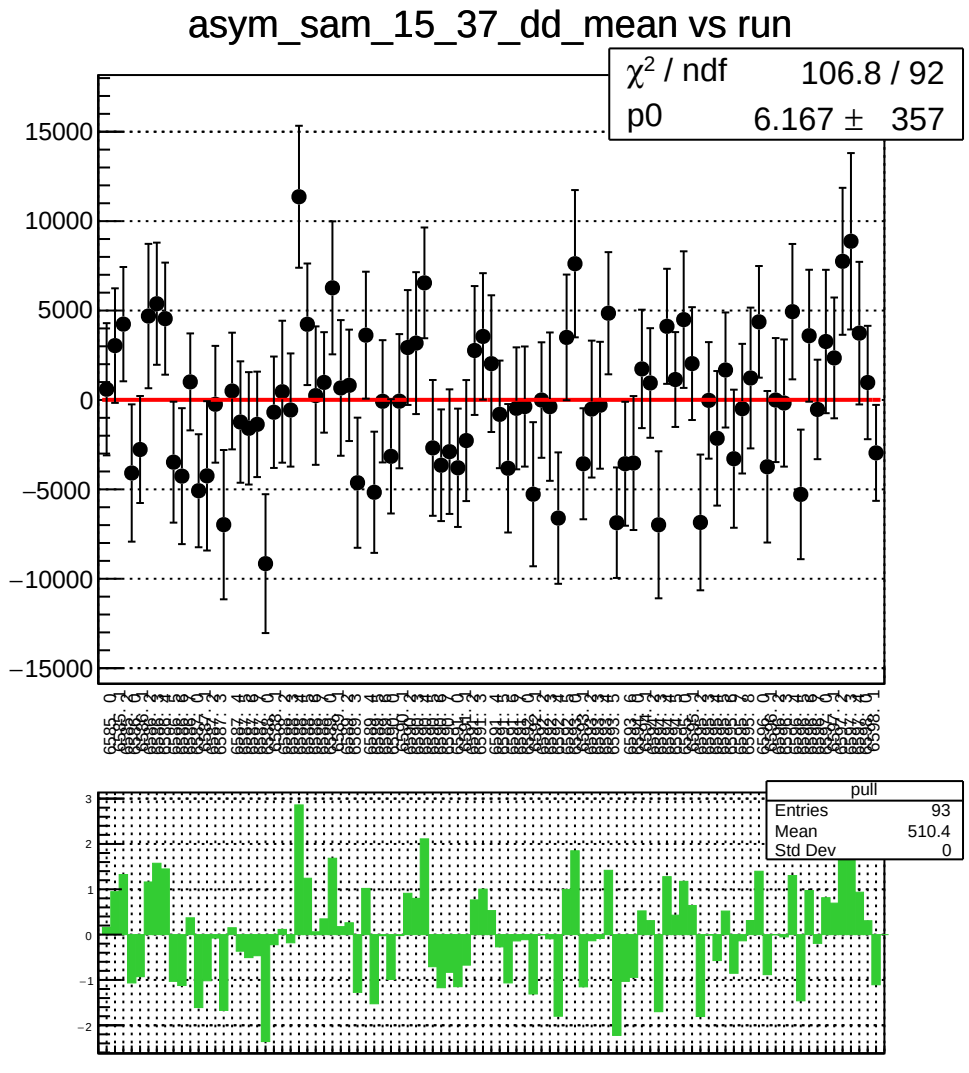

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 75.24 / 92
p0 −19.03 ± 48.45
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −1244
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

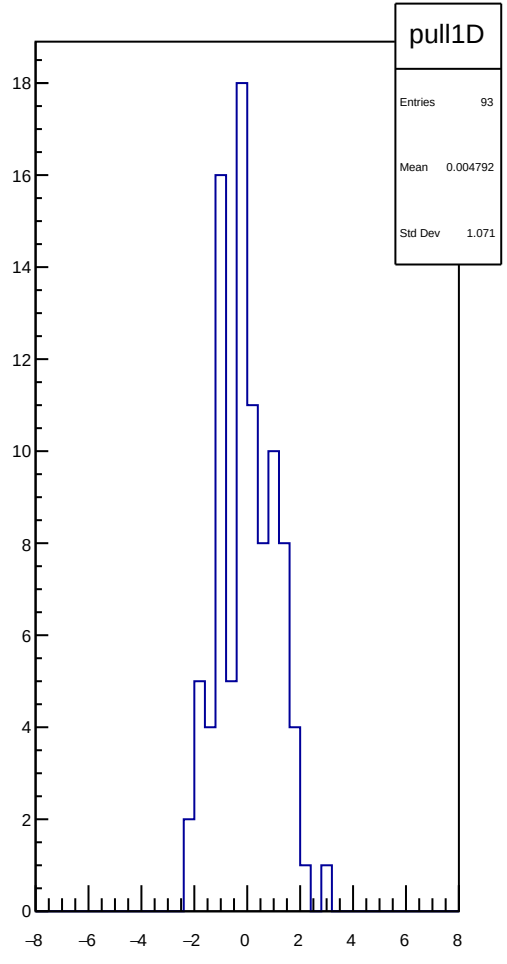

pull1D
Entries 93
Mean −0.003131
Std Dev 0.8995
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

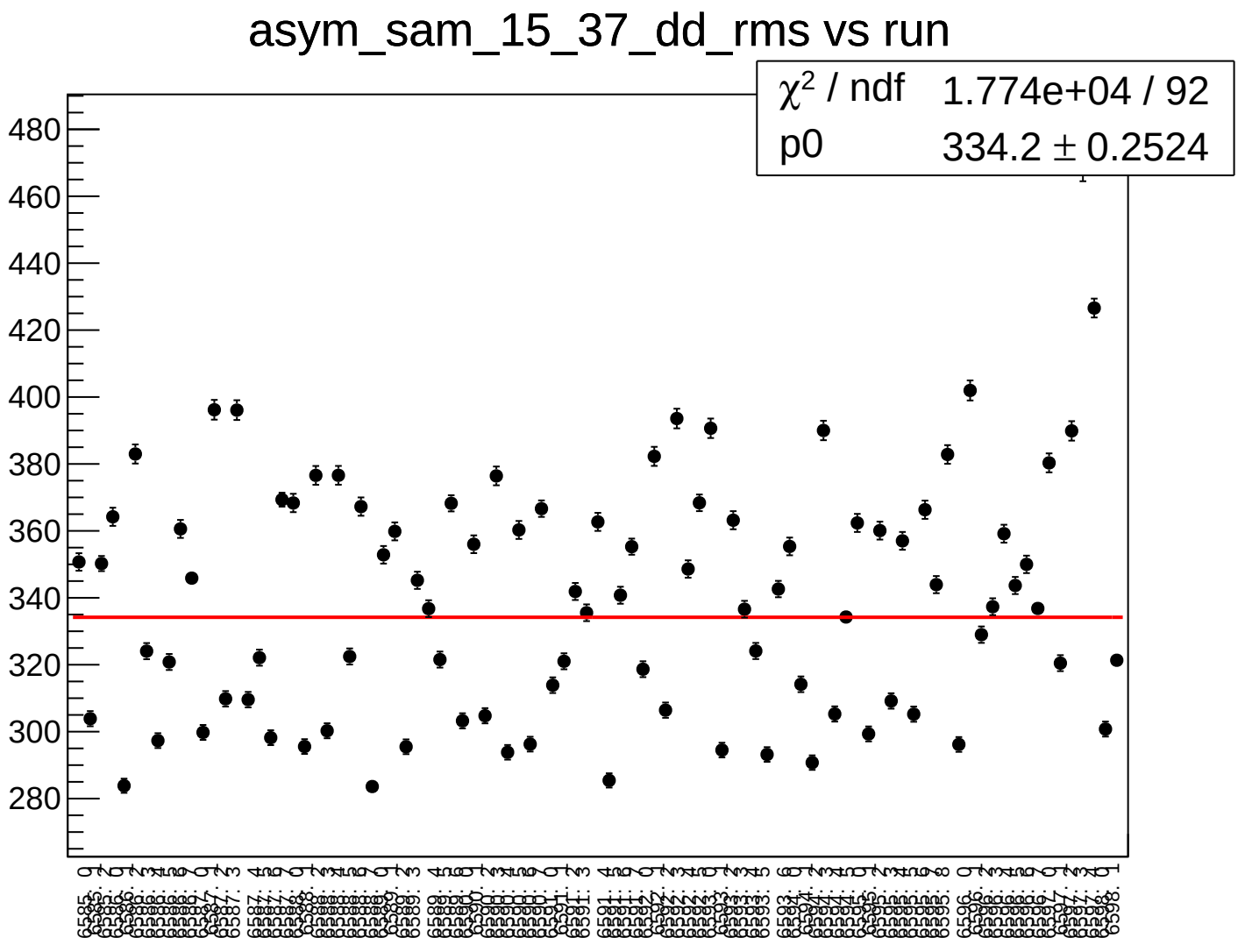

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.264e+04 / 92
p0 45.3 ± 0.03426
70
65
60
55
50
45
40

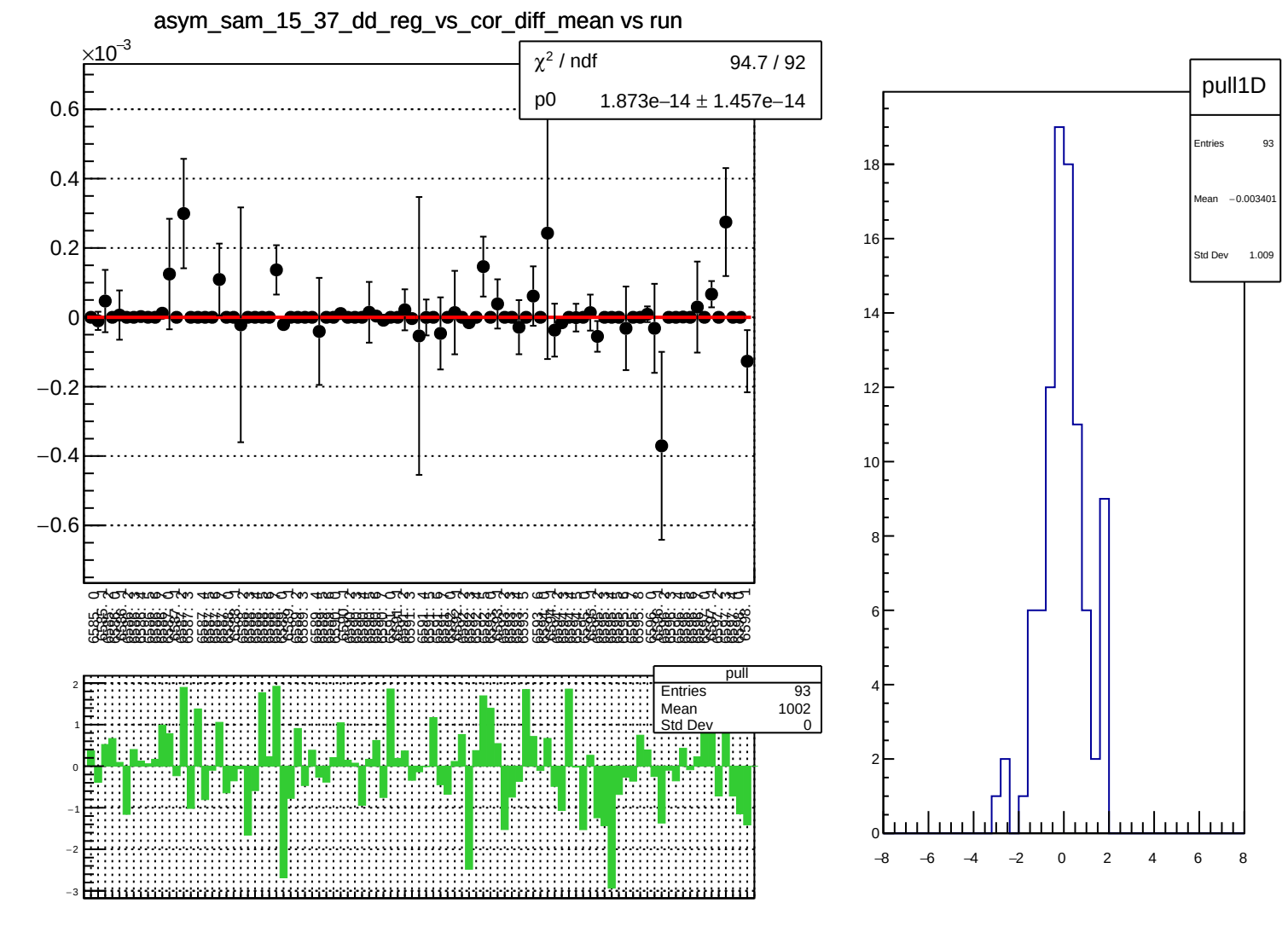

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 112 / 92
p0 −39.01 ± 348.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 552.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003586
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

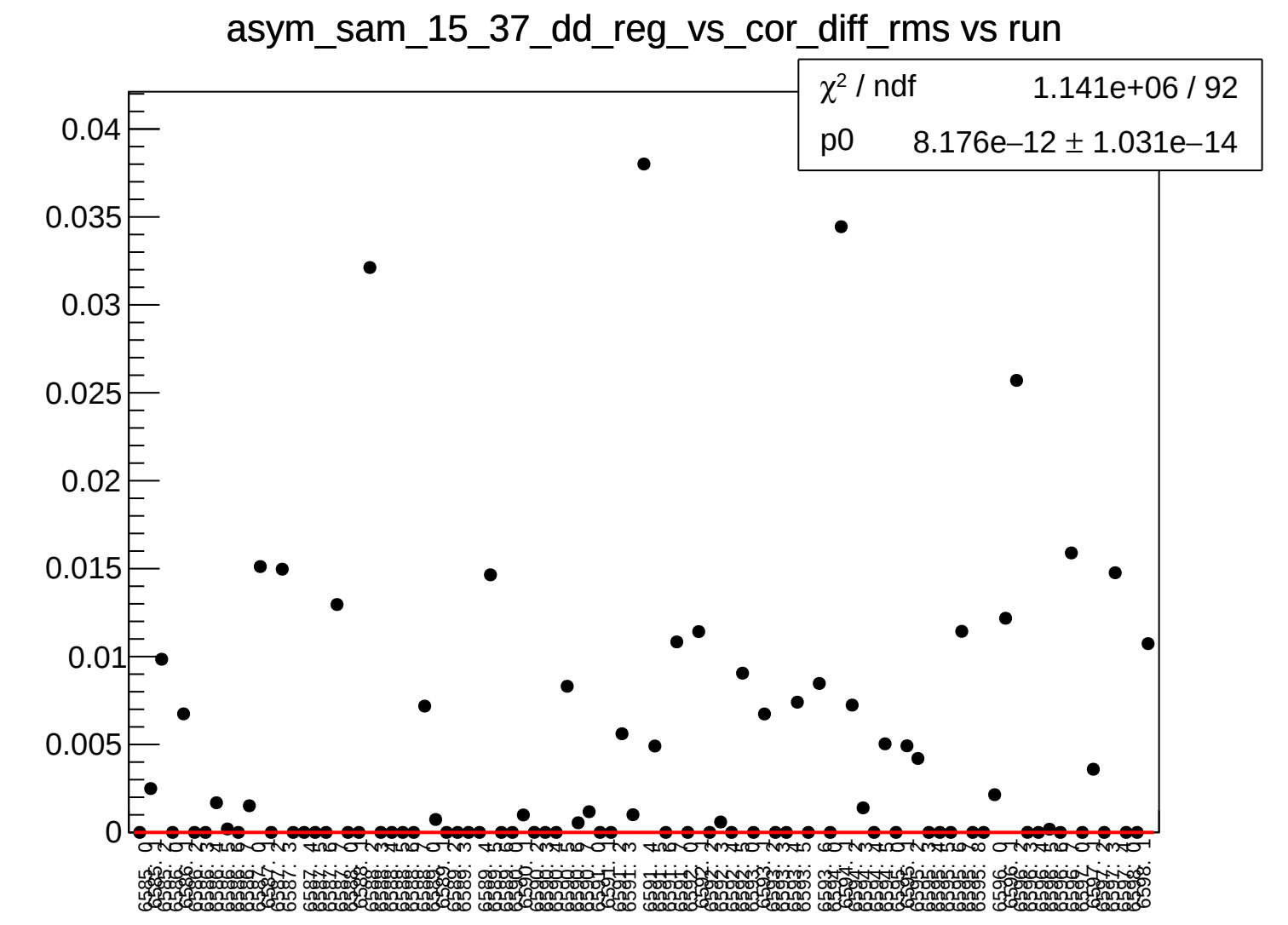

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.278e+04 / 92
p0 327 ± 0.2467
440
420
400
380
360
340
320
300
280

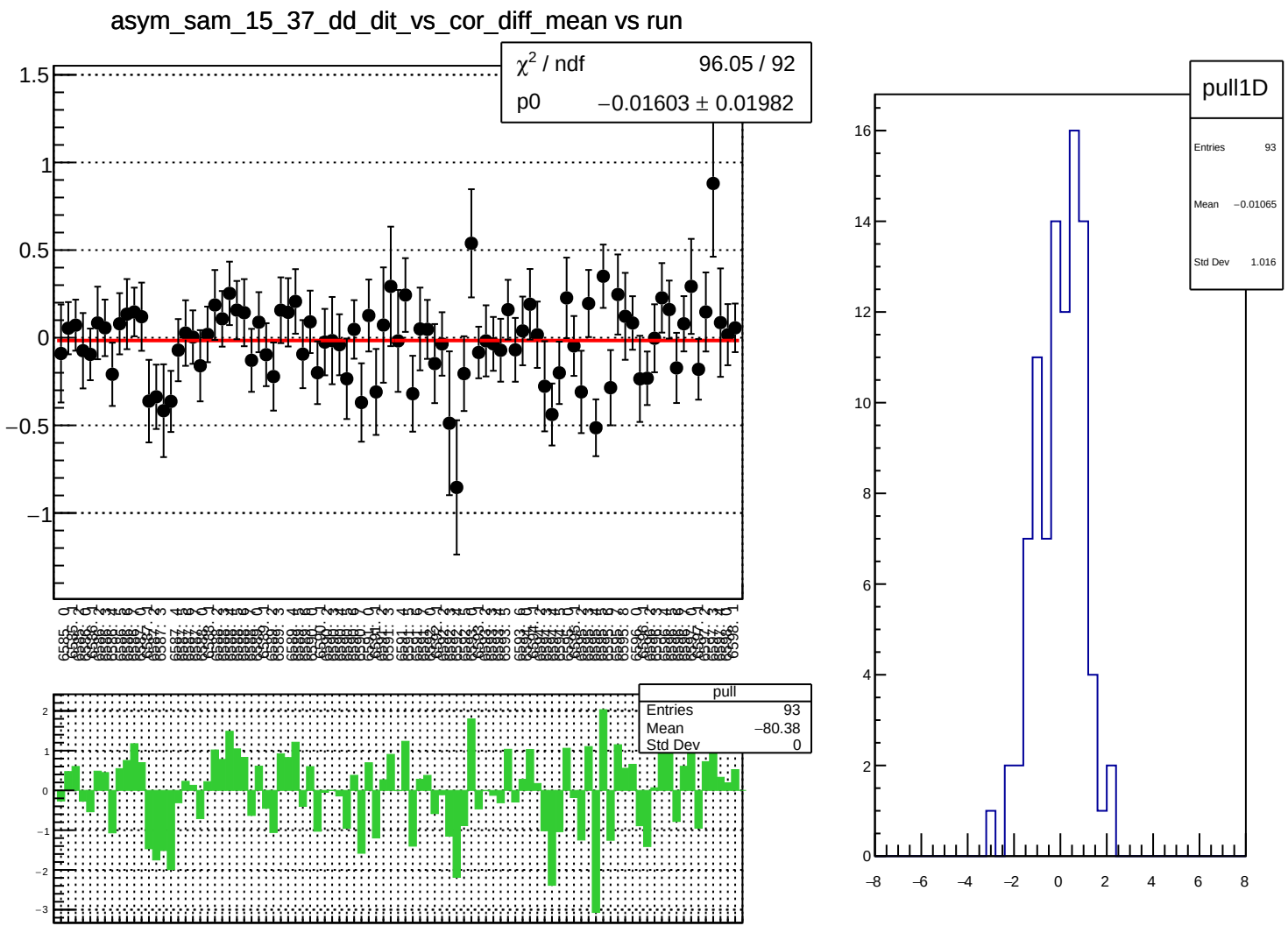

asym_sam_15_37_dd_mean vs run
χ² / ndf 106.8 / 92
p0 6.167 ± 357
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 510.4
Std Dev 0
3
2
1
0
−1
−2

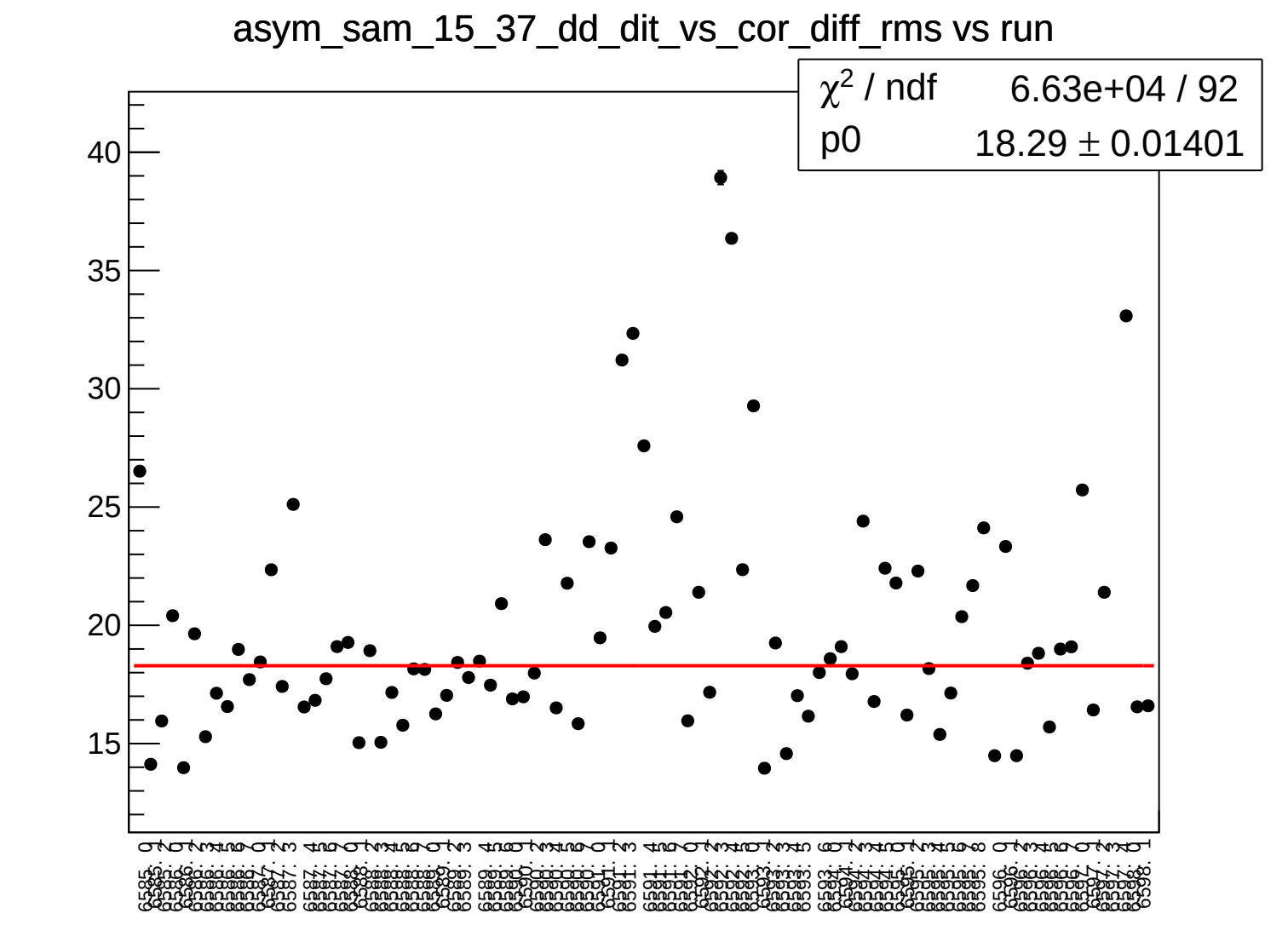

pull1D
Entries 93
Mean 0.004792
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

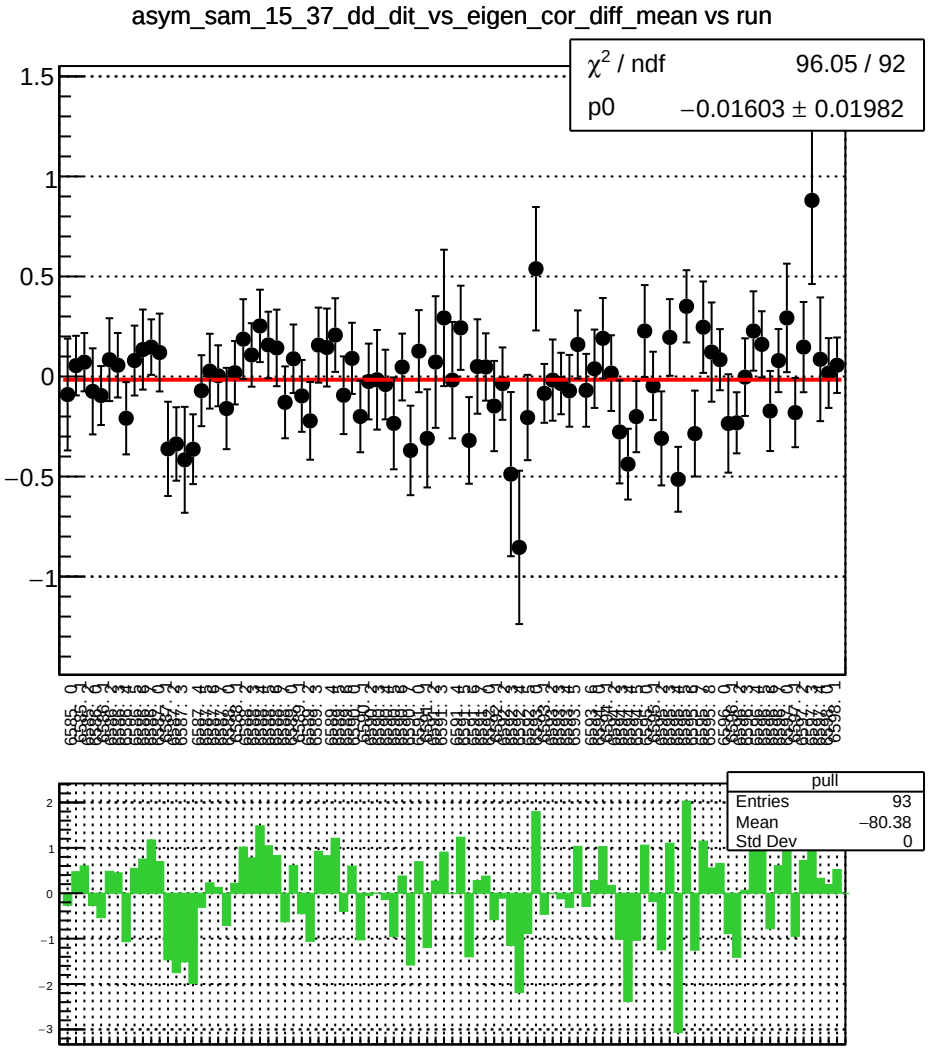

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.774e+04 / 92
p0 334.2 ± 0.2524
480
460
440
420
400
380
360
340
320
300
280

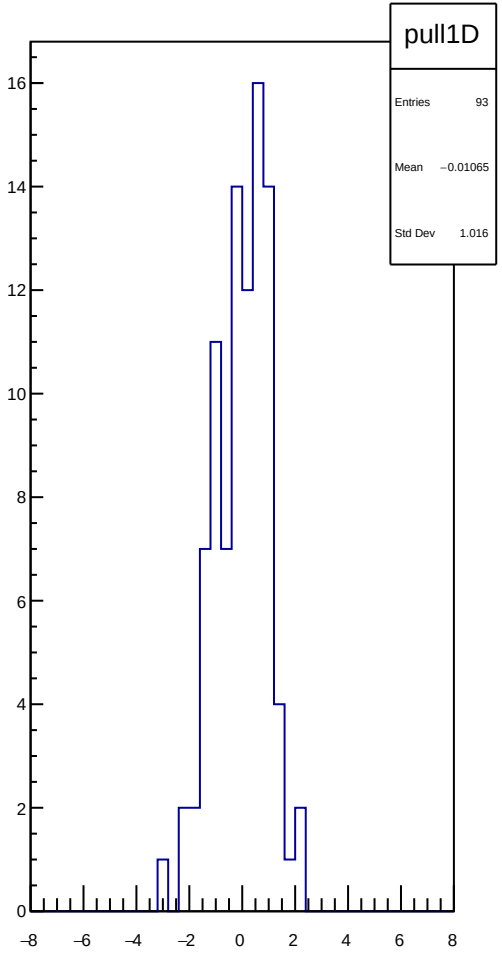

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 94.7 / 92
p0 1.873e−14 ± 1.457e−14
pull
Entries 93
Mean 1002
Std Dev 0
pull1D
Entries 93
Mean −0.003401
Std Dev 1.009

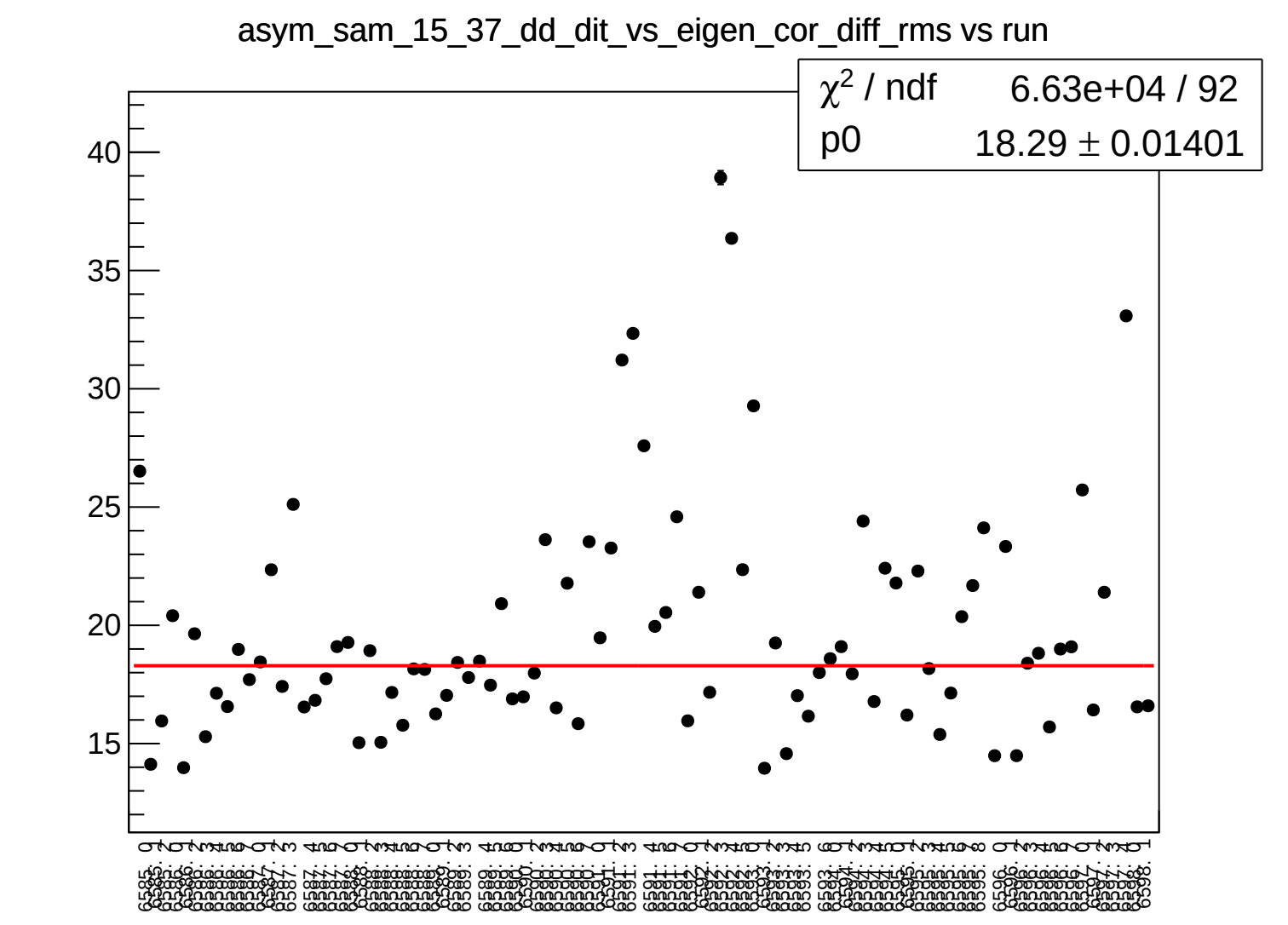

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.141e+06 / 92
p0 8.176e−12 ± 1.031e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

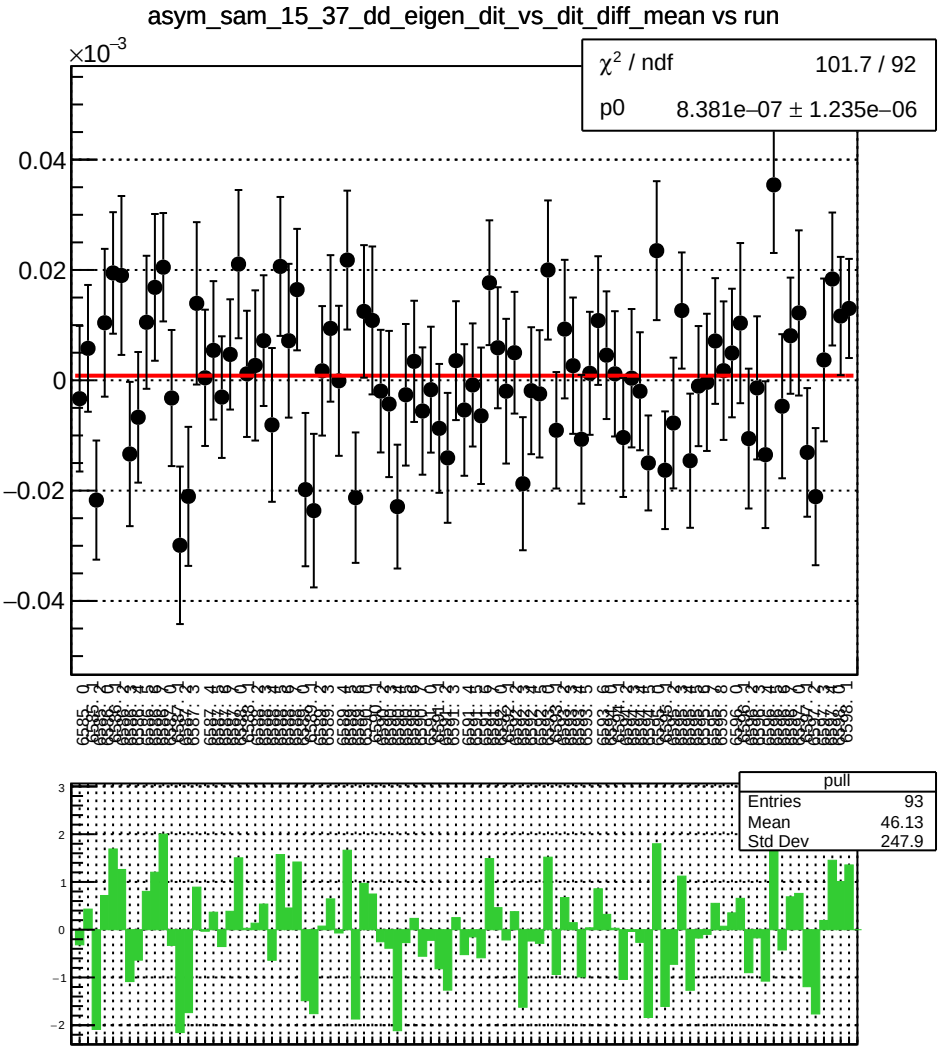

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.05 / 92
p0 −0.01603 ± 0.01982
pull
Entries 93
Mean −80.38
Std Dev 0
pull1D
Entries 93
Mean −0.01065
Std Dev 1.016

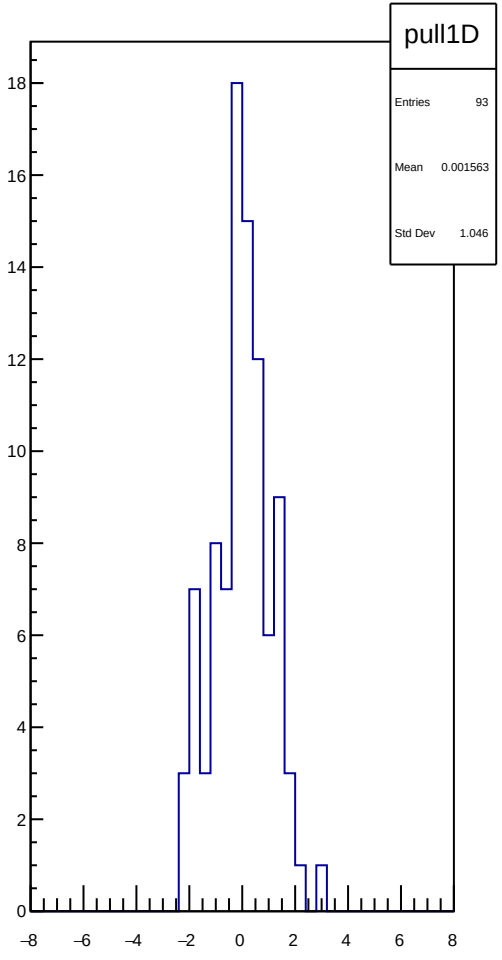

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.63e+04 / 92
p0 18.29 ± 0.01401
40
35
30
25
20
15

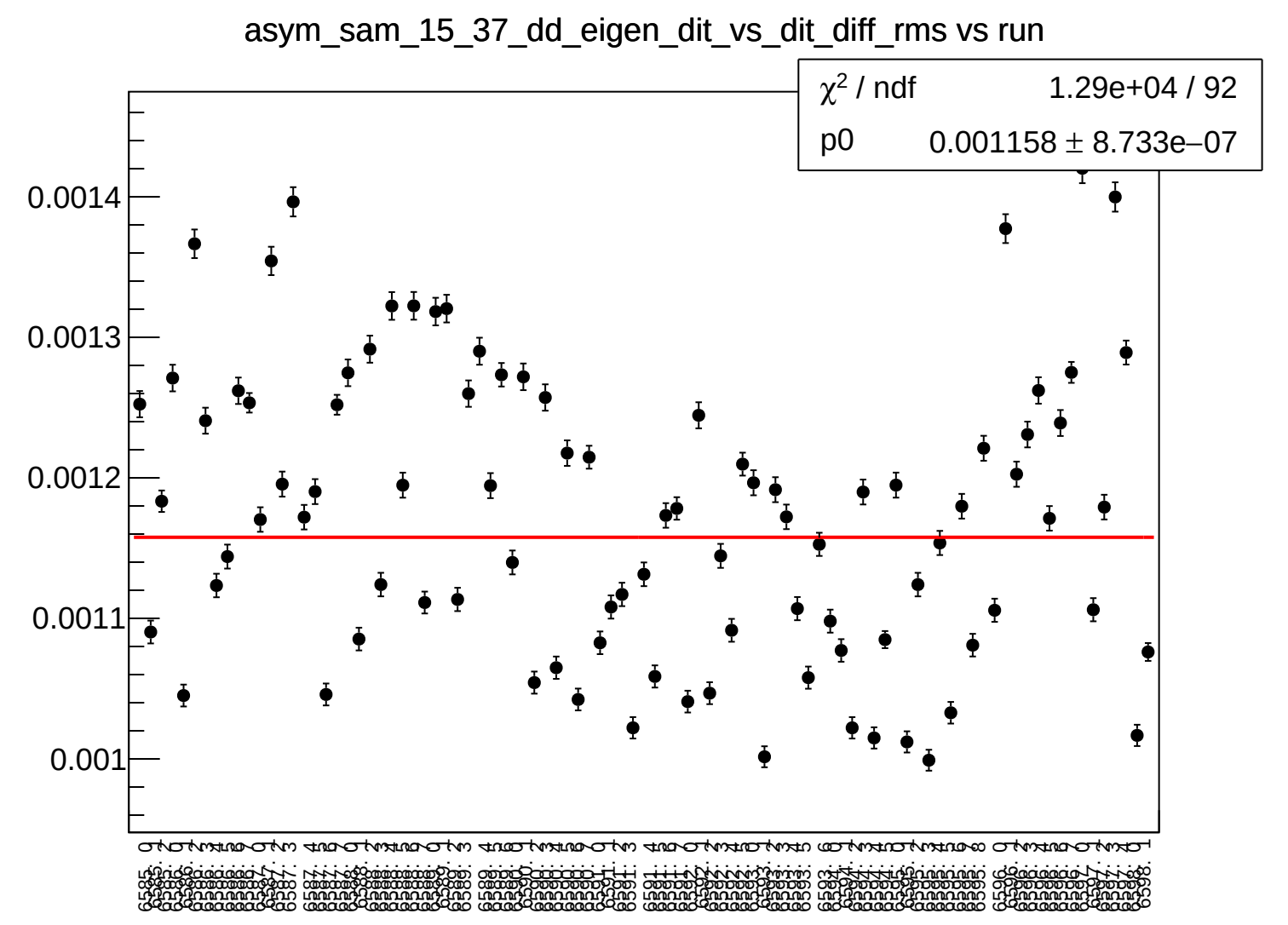

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.05 / 92
p0 −0.01603 ± 0.01982
pull
Entries 93
Mean −80.38
Std Dev 0

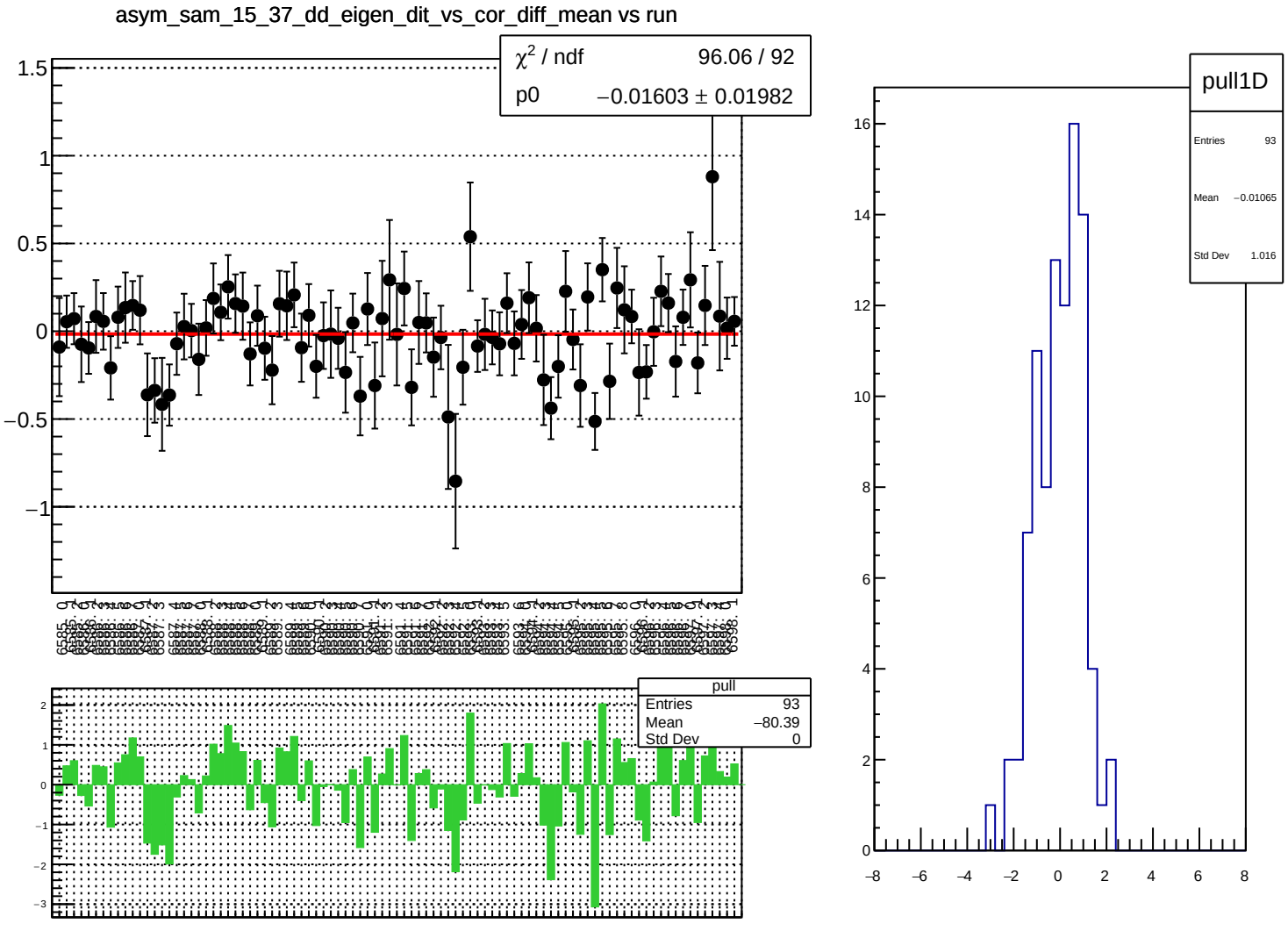

pull1D
Entries 93
Mean −0.01065
Std Dev 1.016

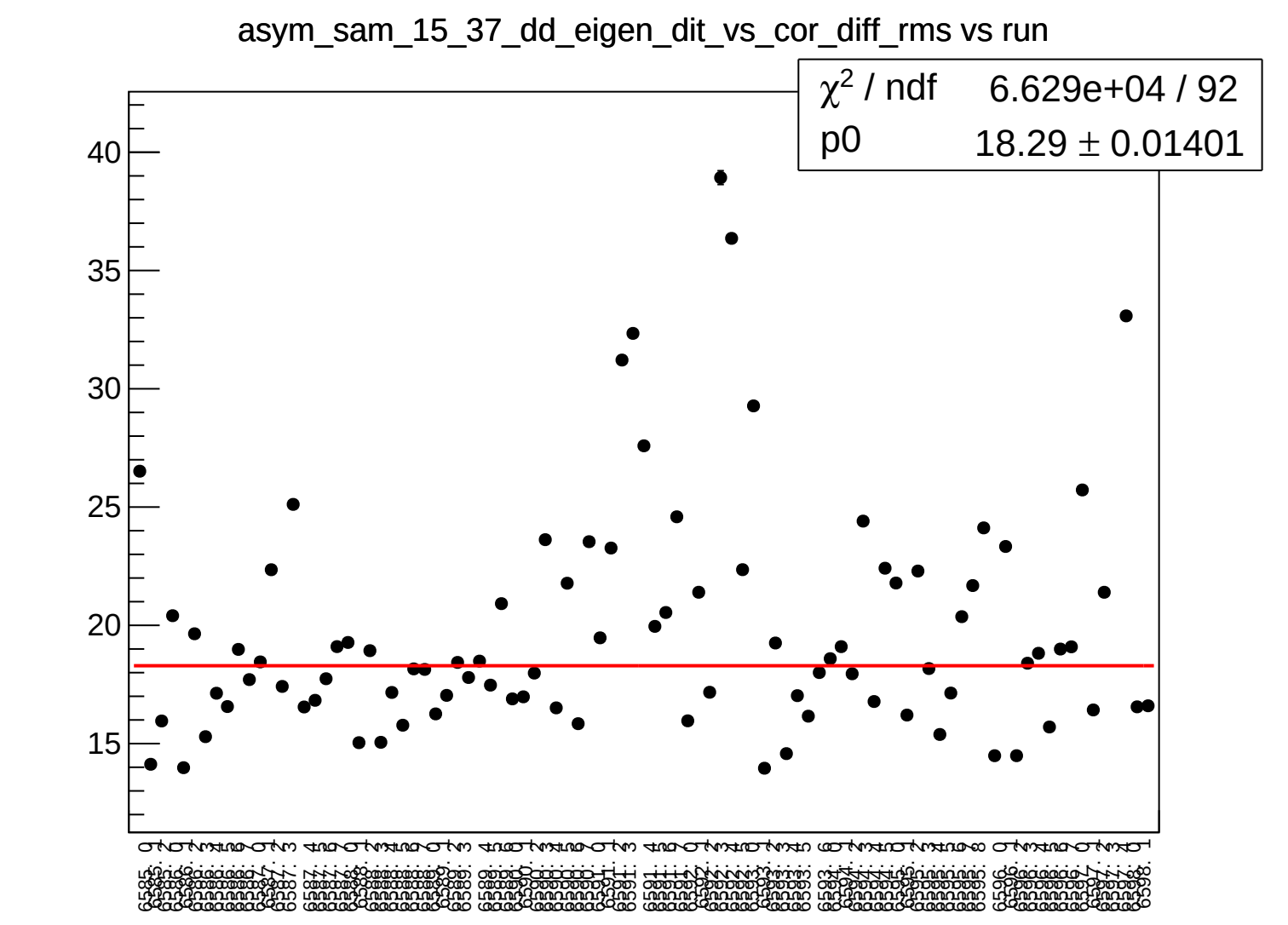

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.63e+04 / 92
p0 18.29 ± 0.01401
40
35
30
25
20
15

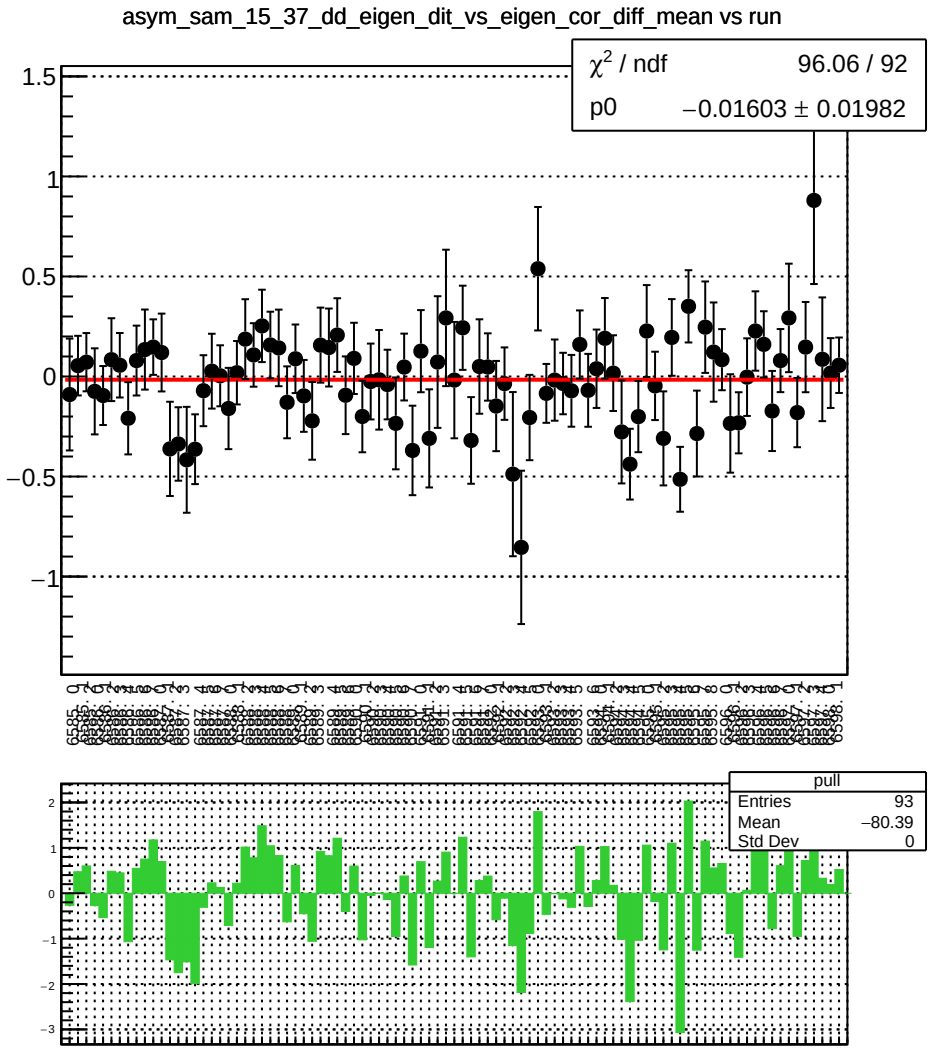

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 92
p0 8.381e−07 ± 1.235e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean 46.13
Std Dev 247.9
3
2
1
0
−1
−2

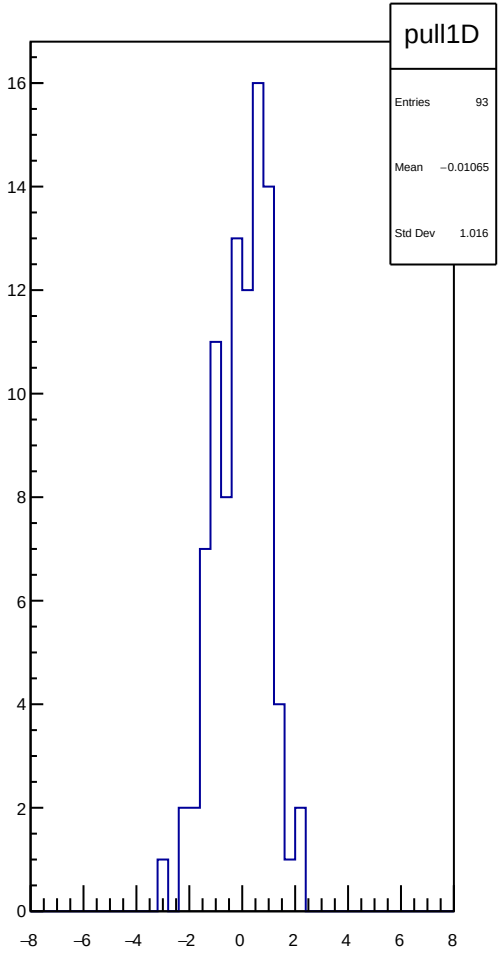

pull1D
Entries 93
Mean 0.001563
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

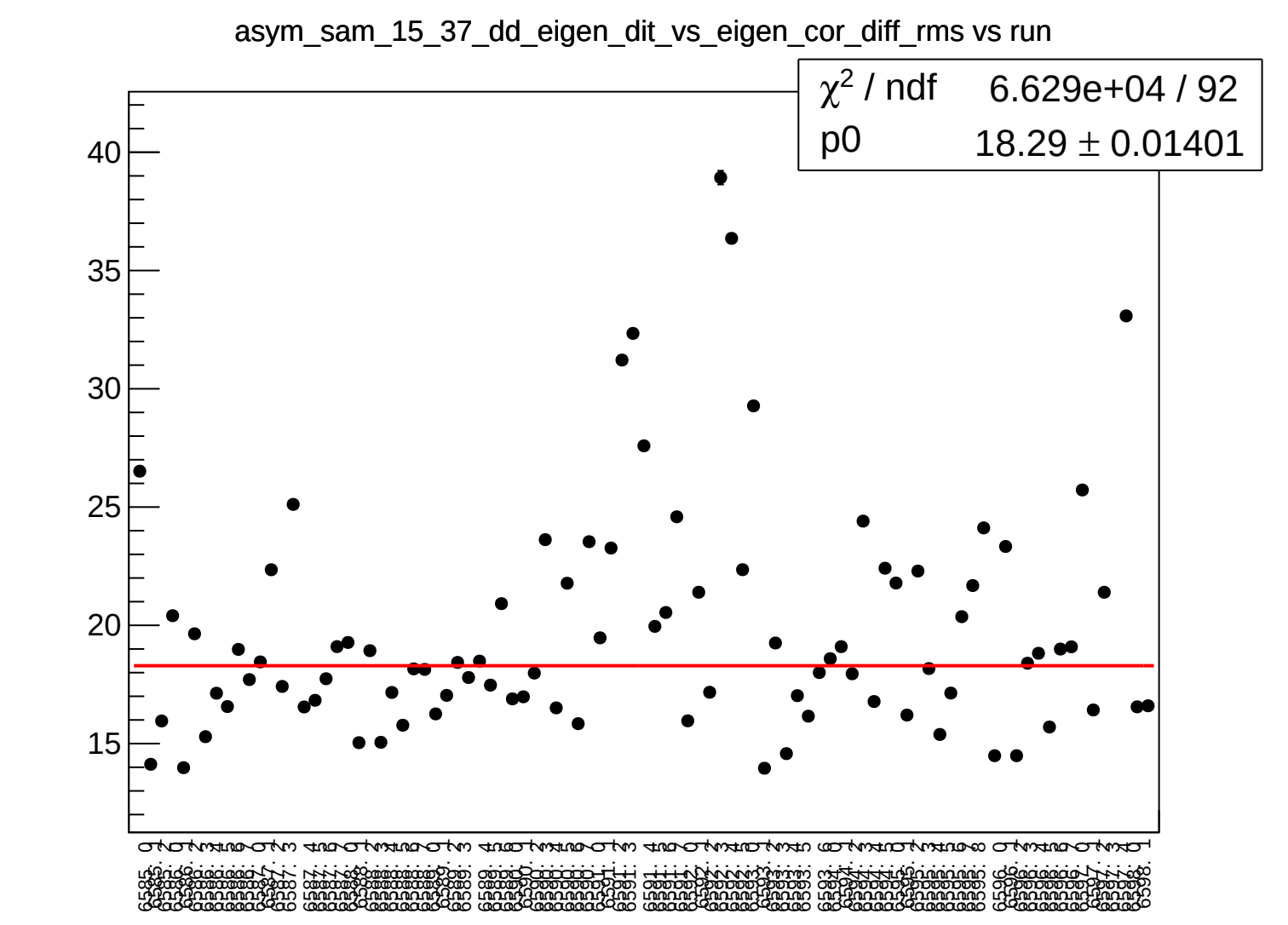

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.29e+04 / 92
p0 0.001158 ± 8.733e−07
0.0014
0.0013
0.0012
0.0011
0.001

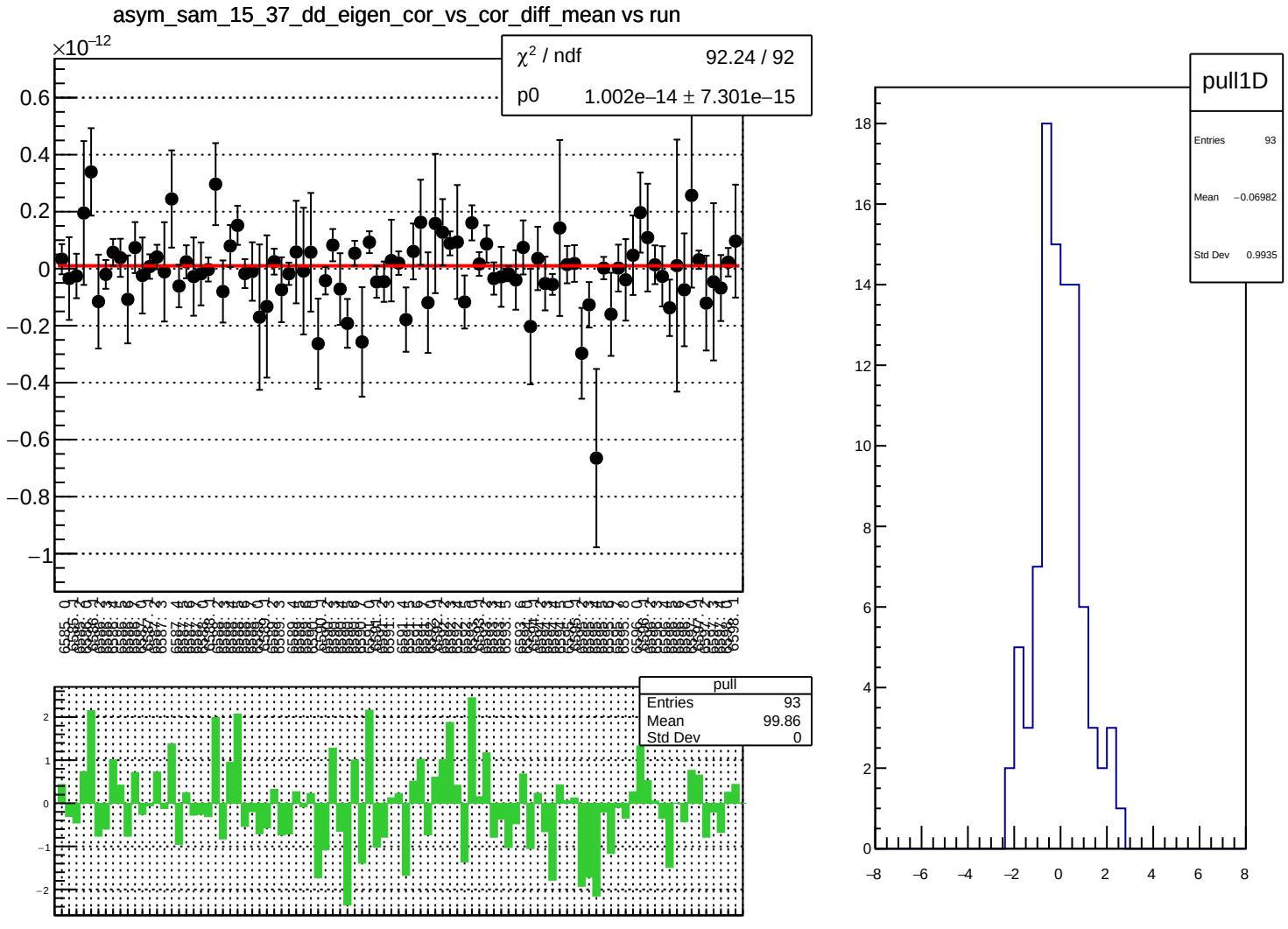

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.06 / 92
p0 −0.01603 ± 0.01982
pull
Entries 93
Mean −80.39
Std Dev 0
pull1D
Entries 93
Mean −0.01065
Std Dev 1.016

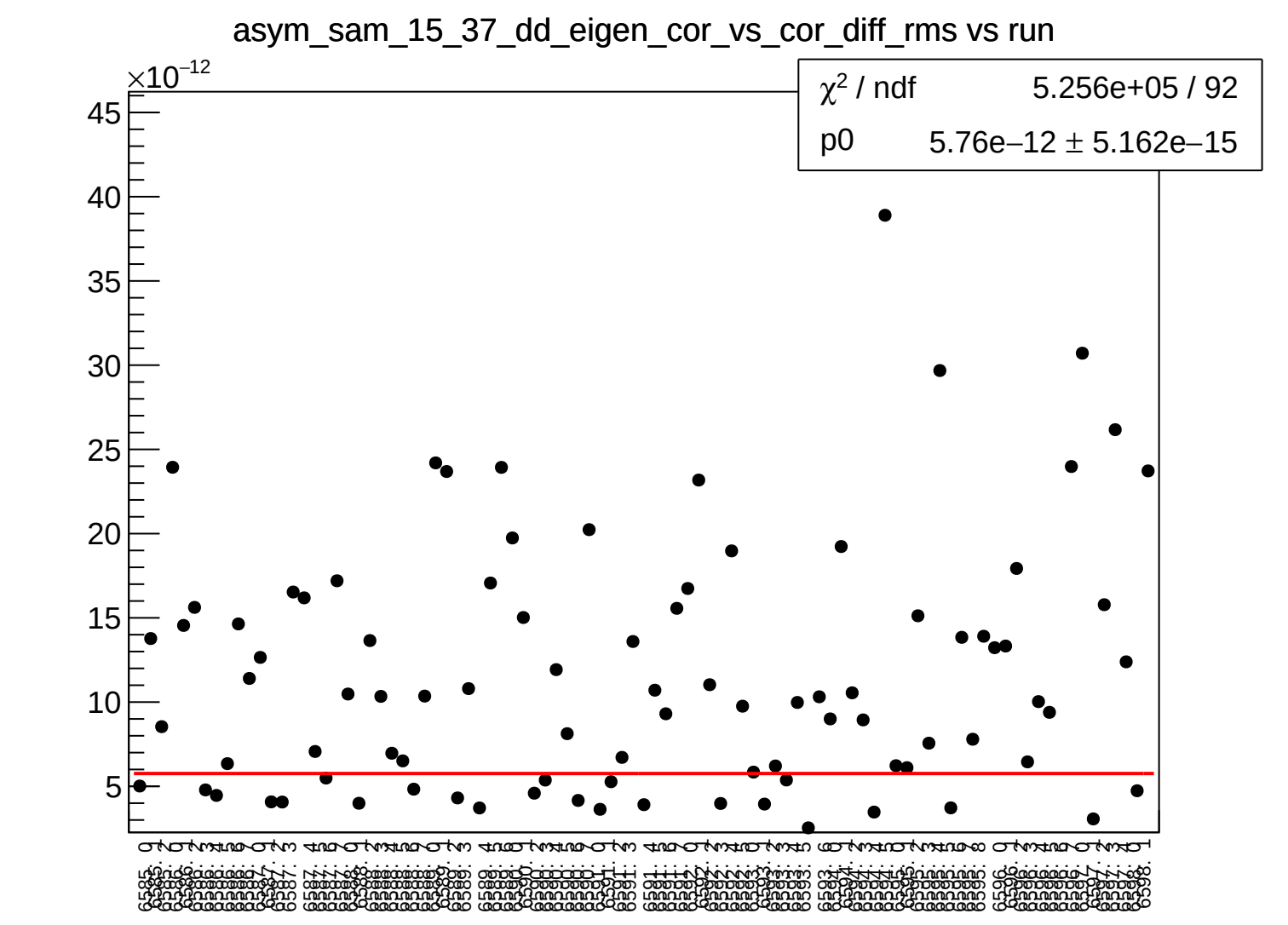

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.629e+04 / 92
p0 18.29 ± 0.01401
40
35
30
25
20
15

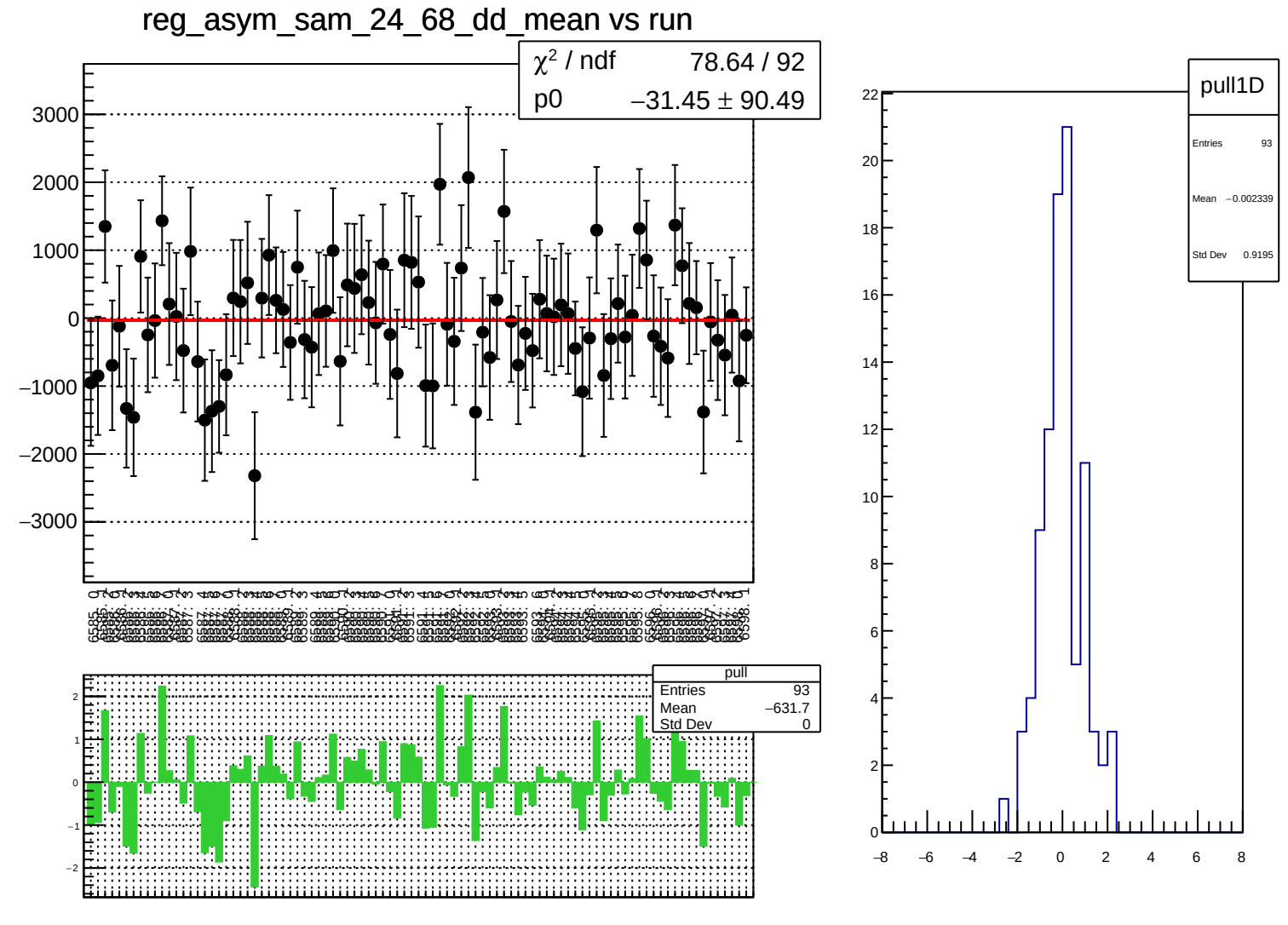

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.06 / 92
p0 −0.01603 ± 0.01982
pull
Entries 93
Mean −80.39
Std Dev 0

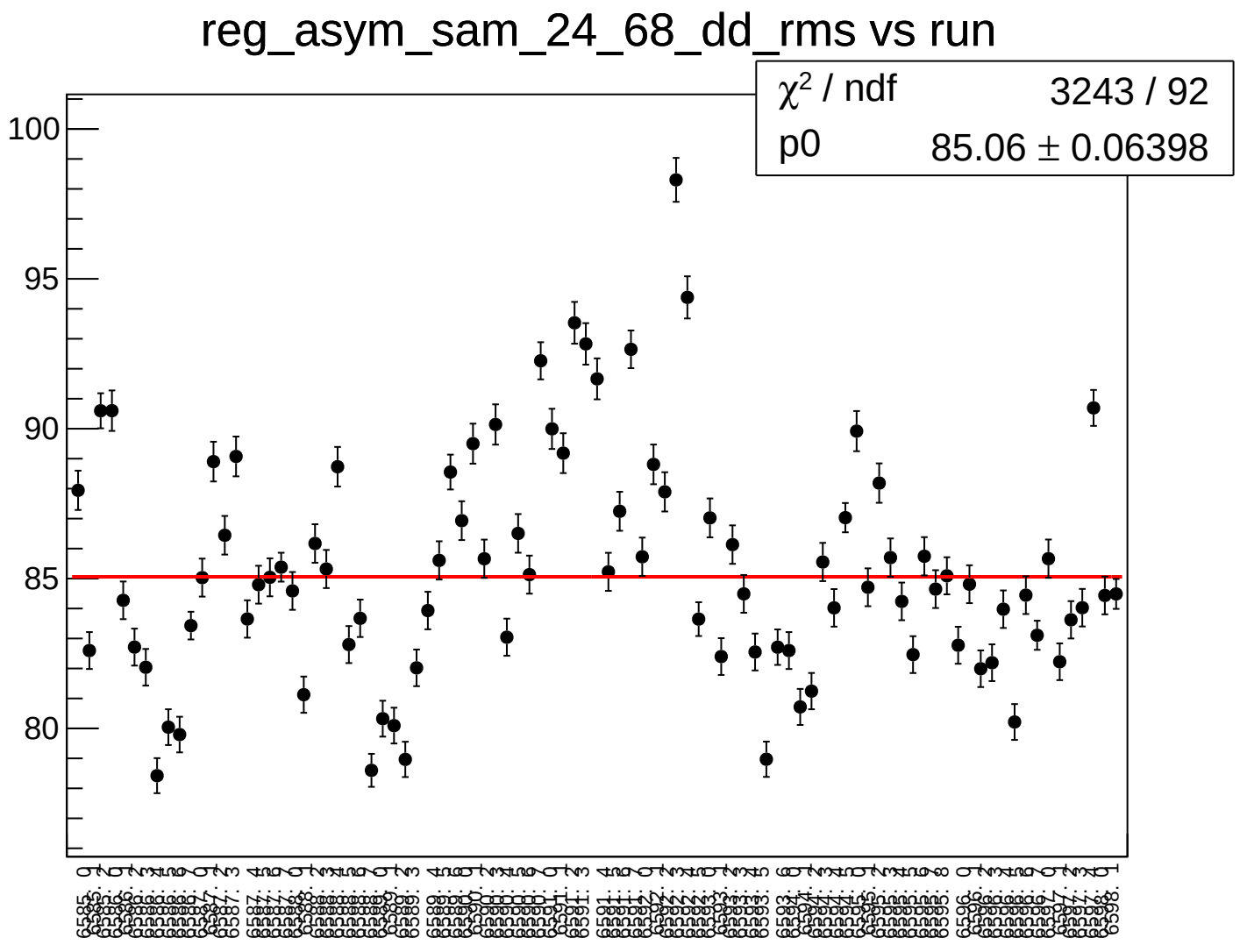

pull1D
Entries 93
Mean −0.01065
Std Dev 1.016

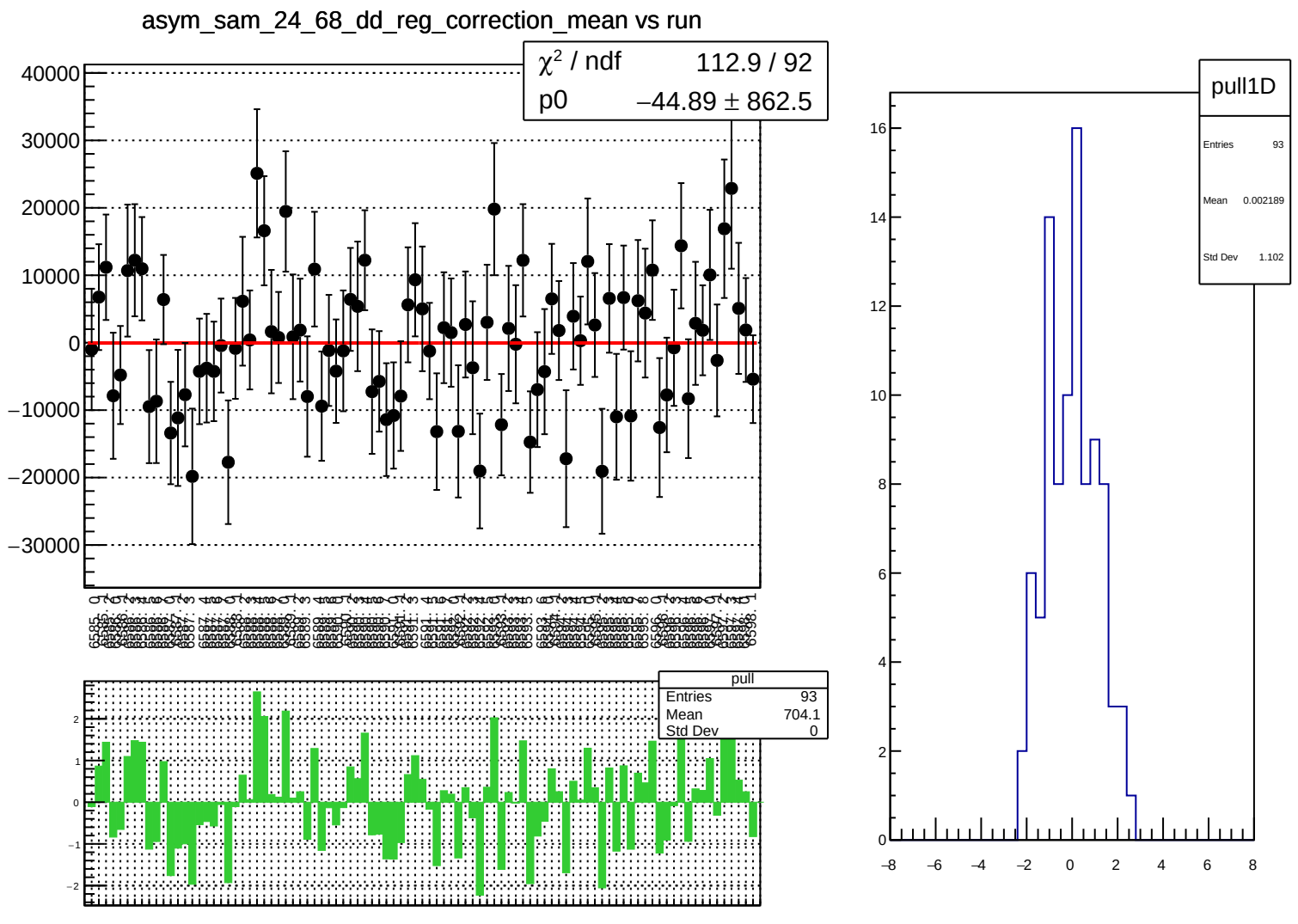

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.629e+04 / 92
p0 18.29 ± 0.01401
40
35
30
25
20
15

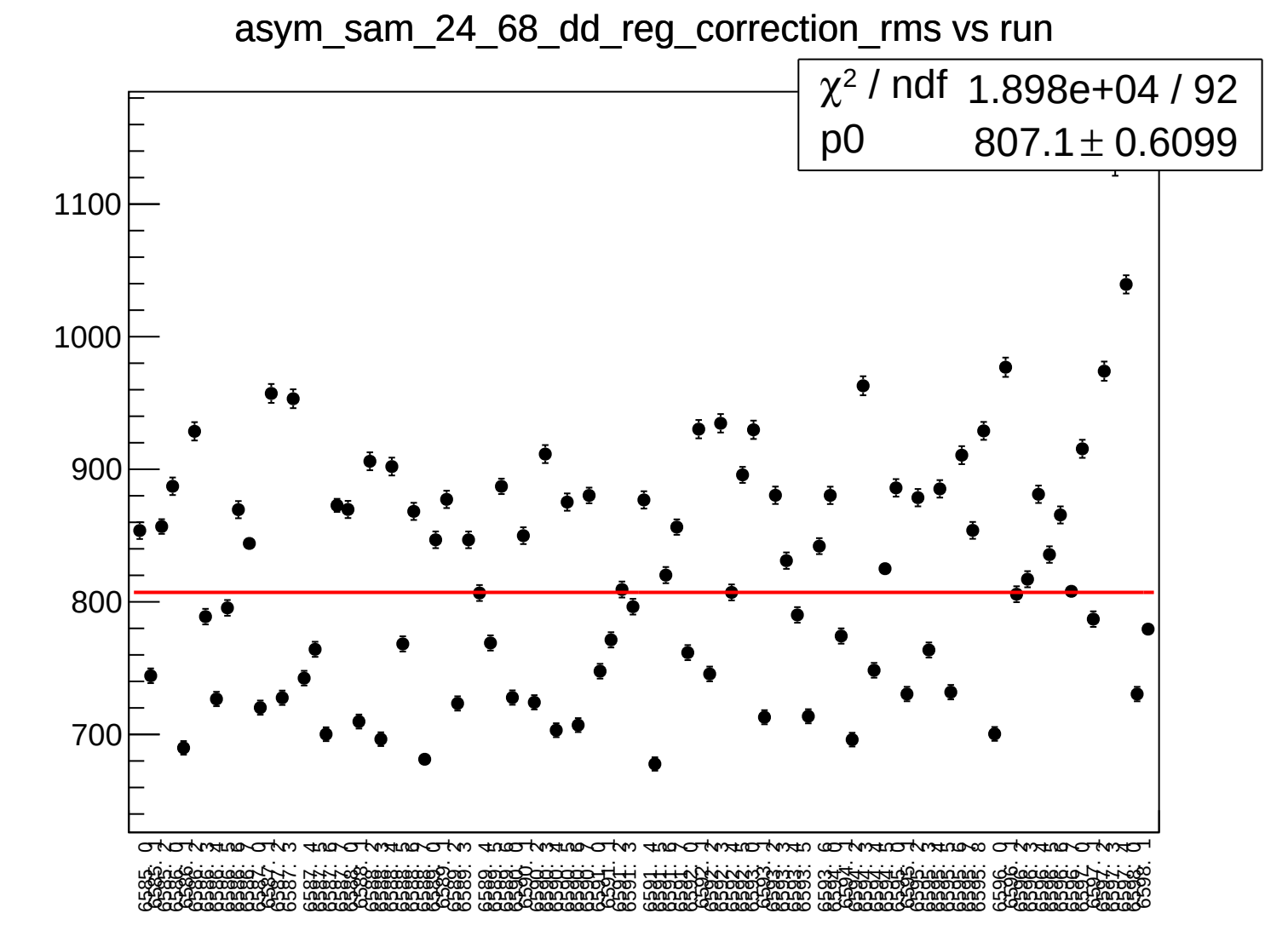

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.24 / 92
p0 1.002e−14 ± 7.301e−15
pull
Entries 93
Mean 99.86
Std Dev 0
pull1D
Entries 93
Mean −0.06982
Std Dev 0.9935

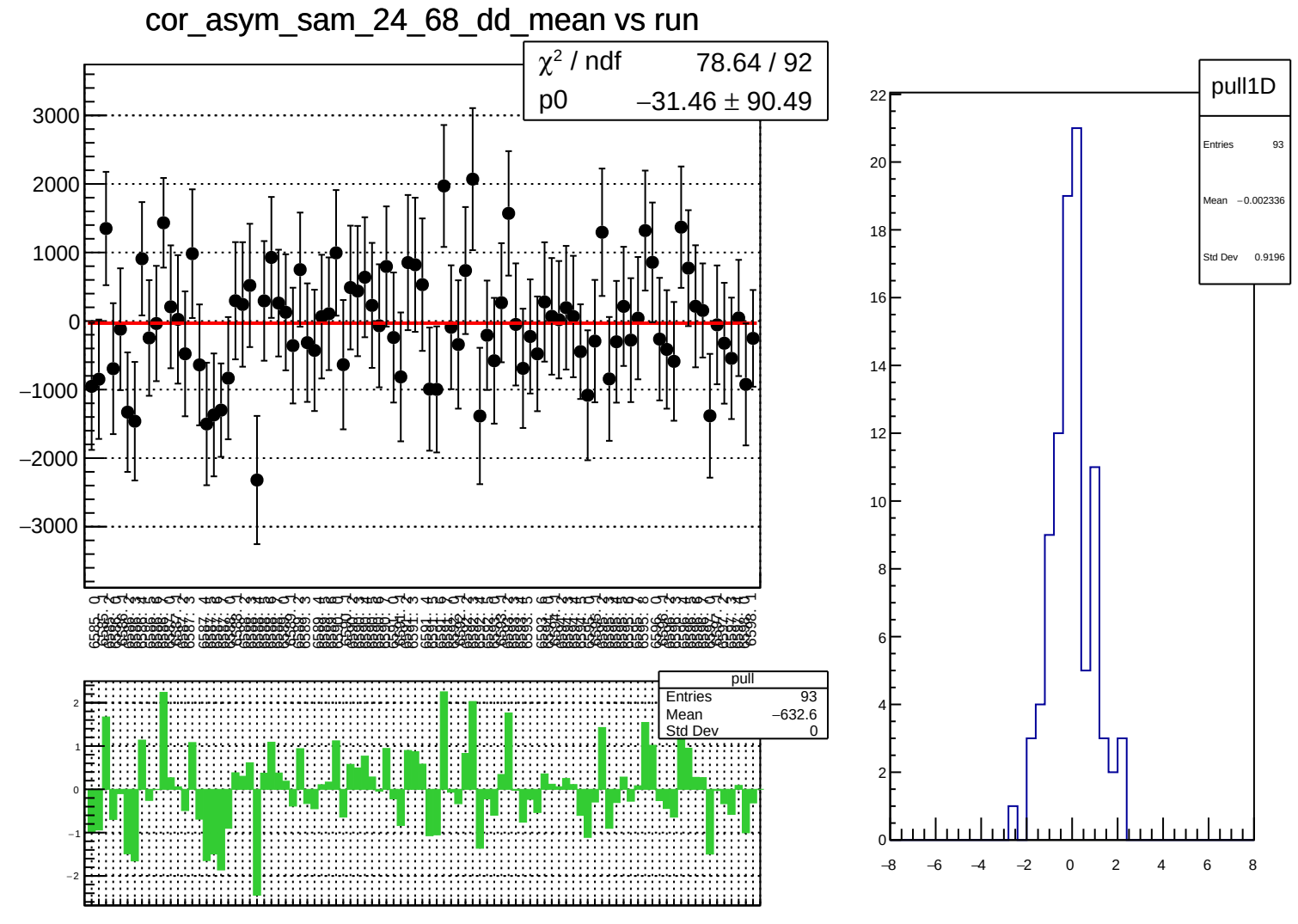

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.256e+05 / 92
p0 5.76e−12 ± 5.162e−15
45
40
35
30
25
20
15
10
5

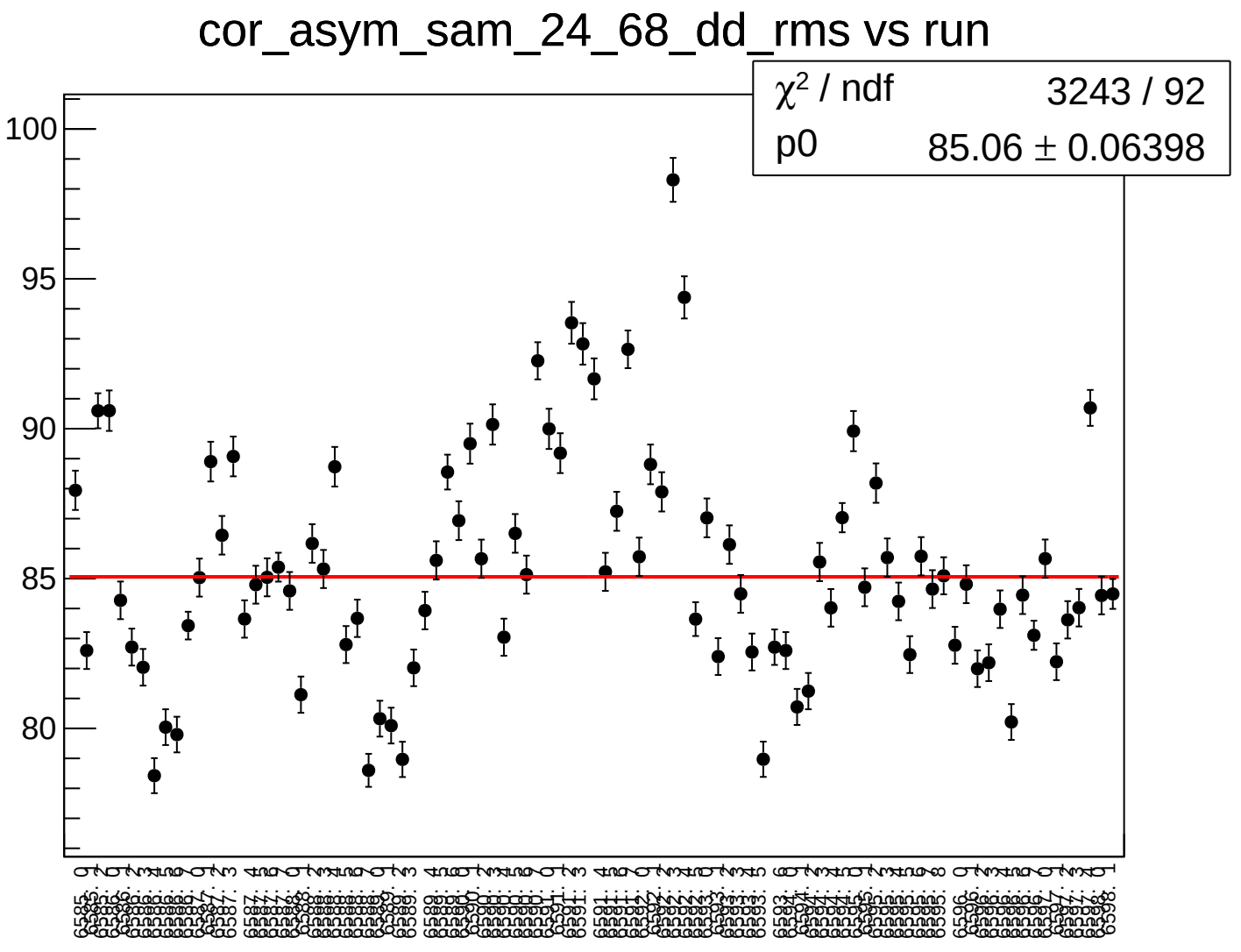

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 78.64 / 92
p0 −31.45 ± 90.49
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −631.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.002339
Std Dev 0.9195
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

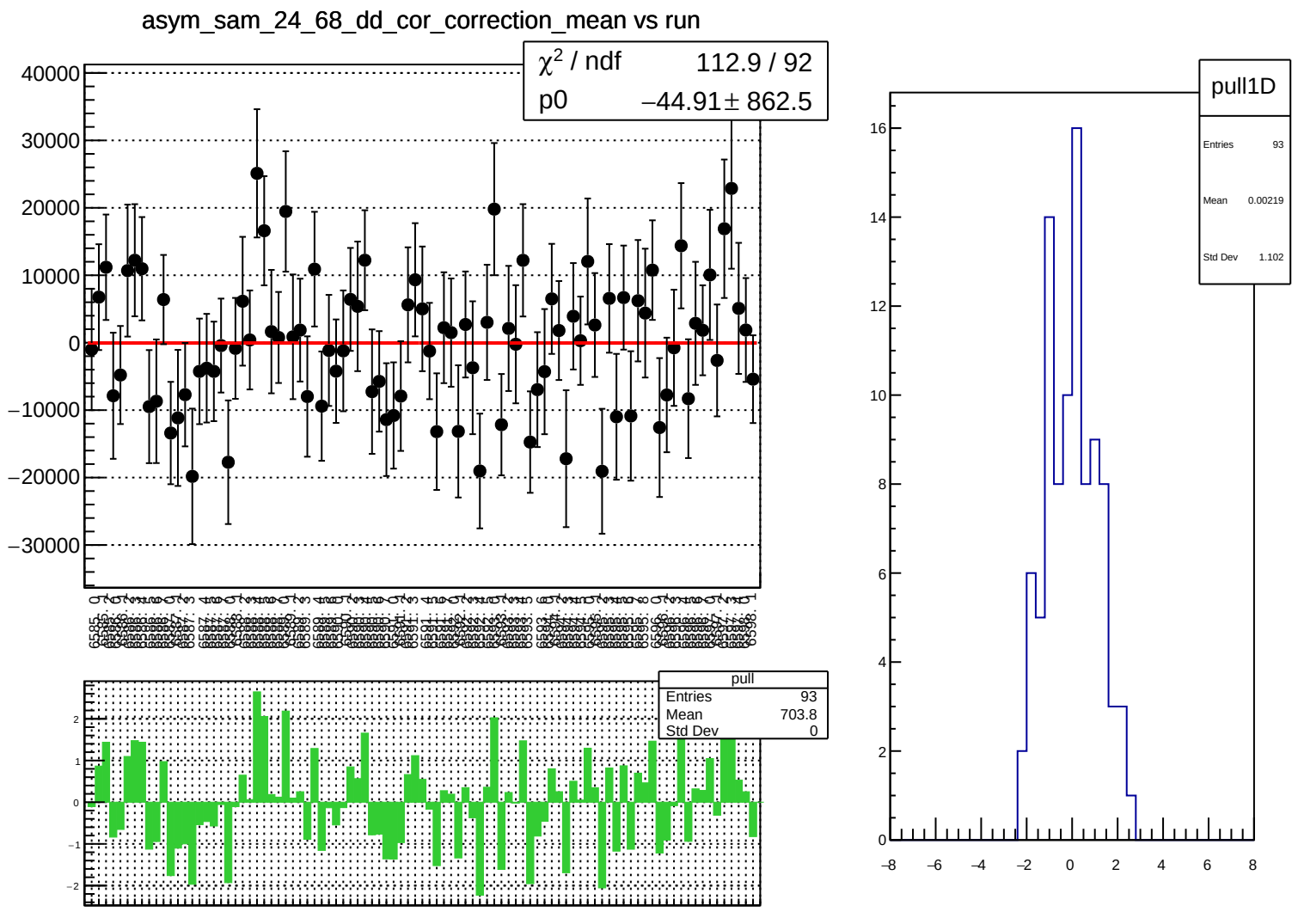

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 3243 / 92
p0 85.06 ± 0.06398
100
95
90
85
80

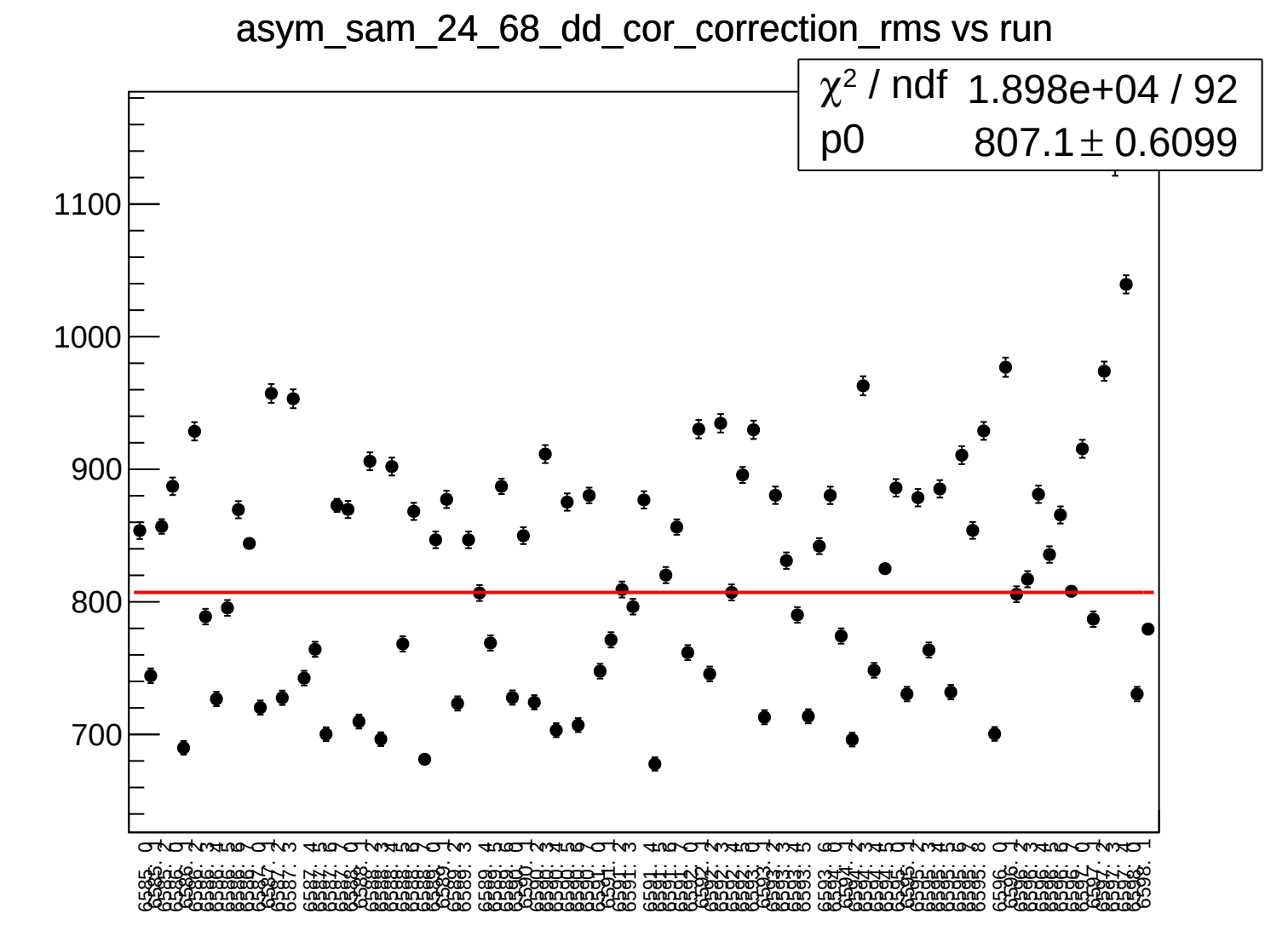

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −44.89 ± 862.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 704.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002189
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

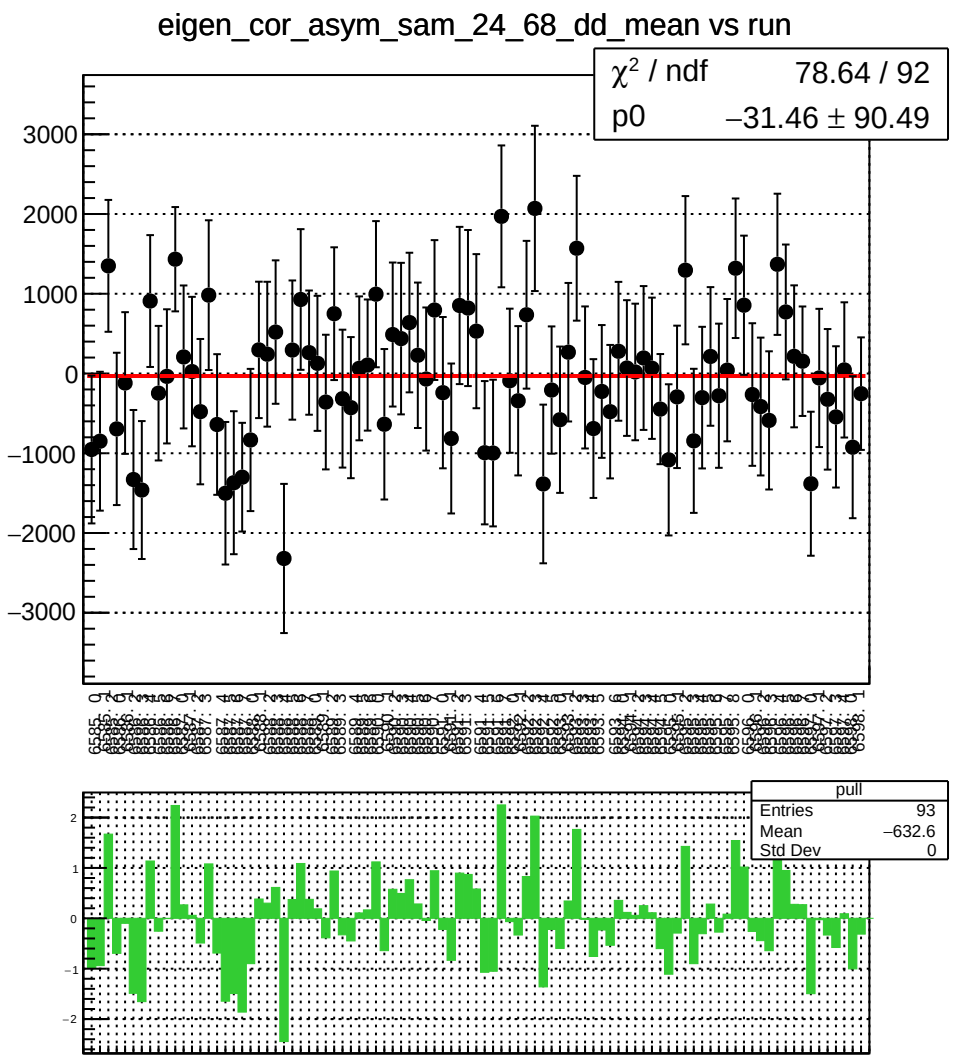

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.898e+04 / 92
p0 807.1 ± 0.6099
1100
1000
900
800
700

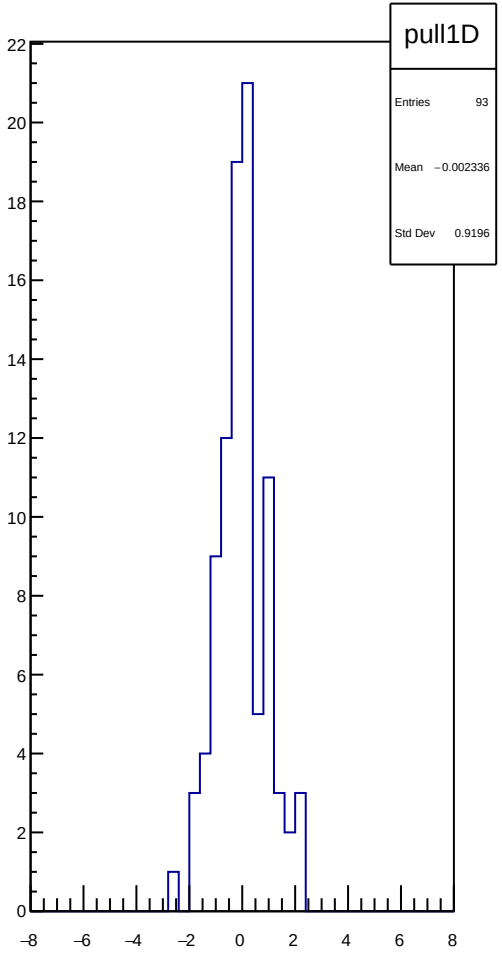

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 78.64 / 92
p0 −31.46 ± 90.49
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −632.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.002336
Std Dev 0.9196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

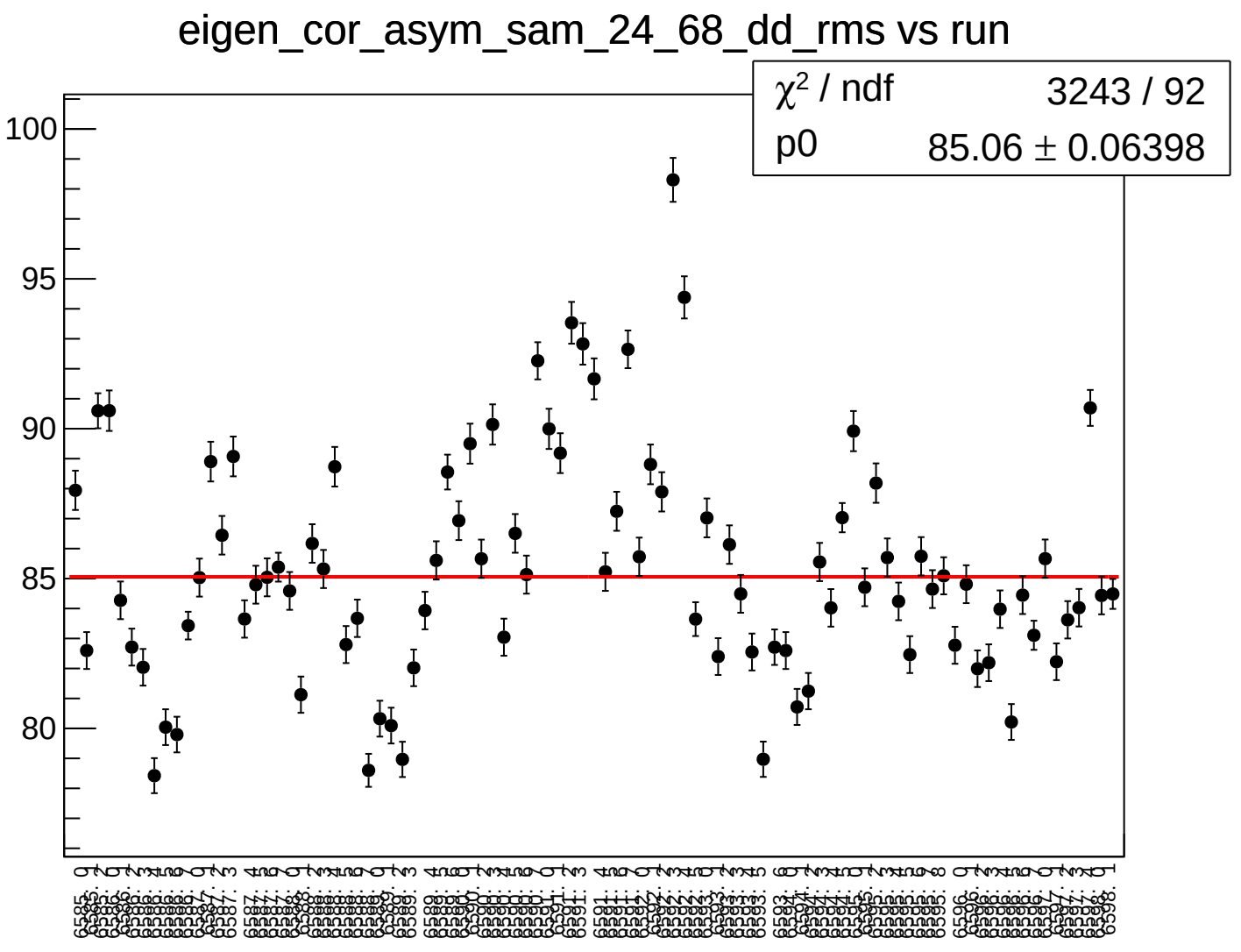

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 3243 / 92
p0 85.06 ± 0.06398
100
95
90
85
80

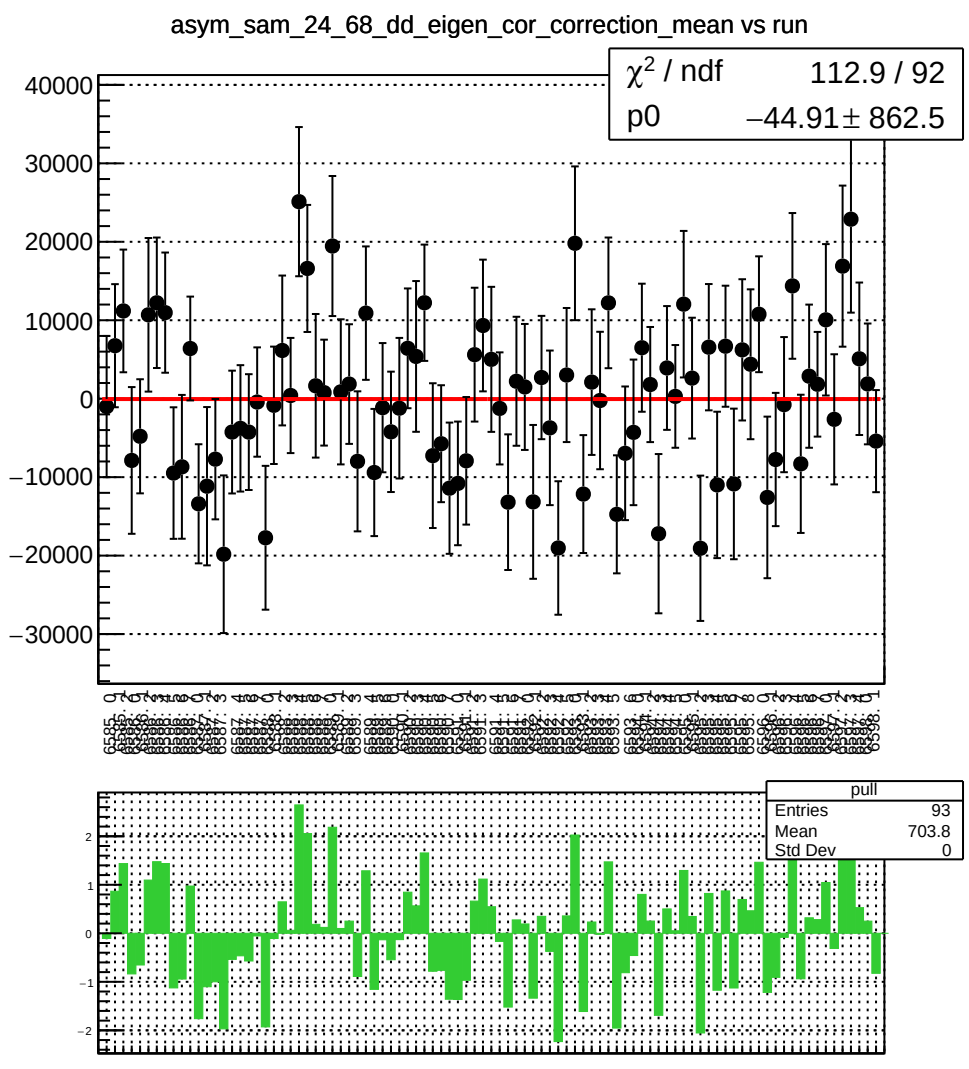

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −44.91 ± 862.5
pull
Entries 93
Mean 703.8
Std Dev 0
pull1D
Entries 93
Mean 0.00219
Std Dev 1.102

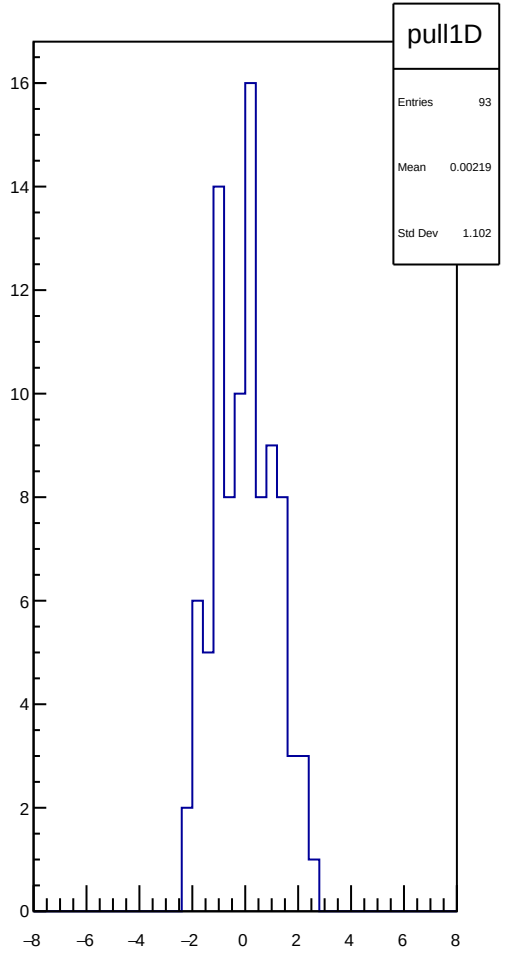

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.898e+04 / 92
p0 807.1 ± 0.6099
1100
1000
900
800
700

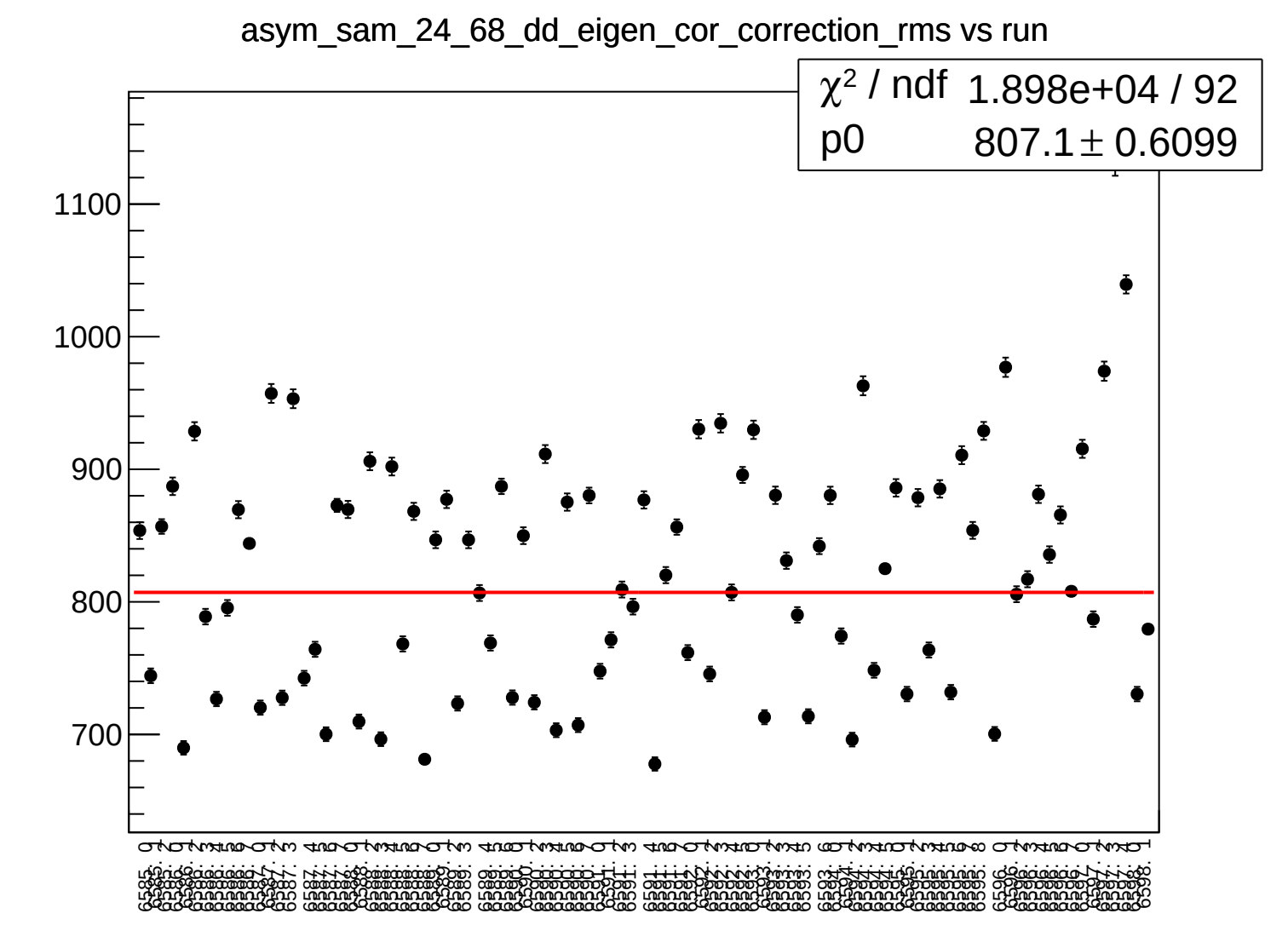

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 78.64 / 92
p0 −31.46 ± 90.49
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −632.6
Std Dev 0
2
1
0
−1
−2

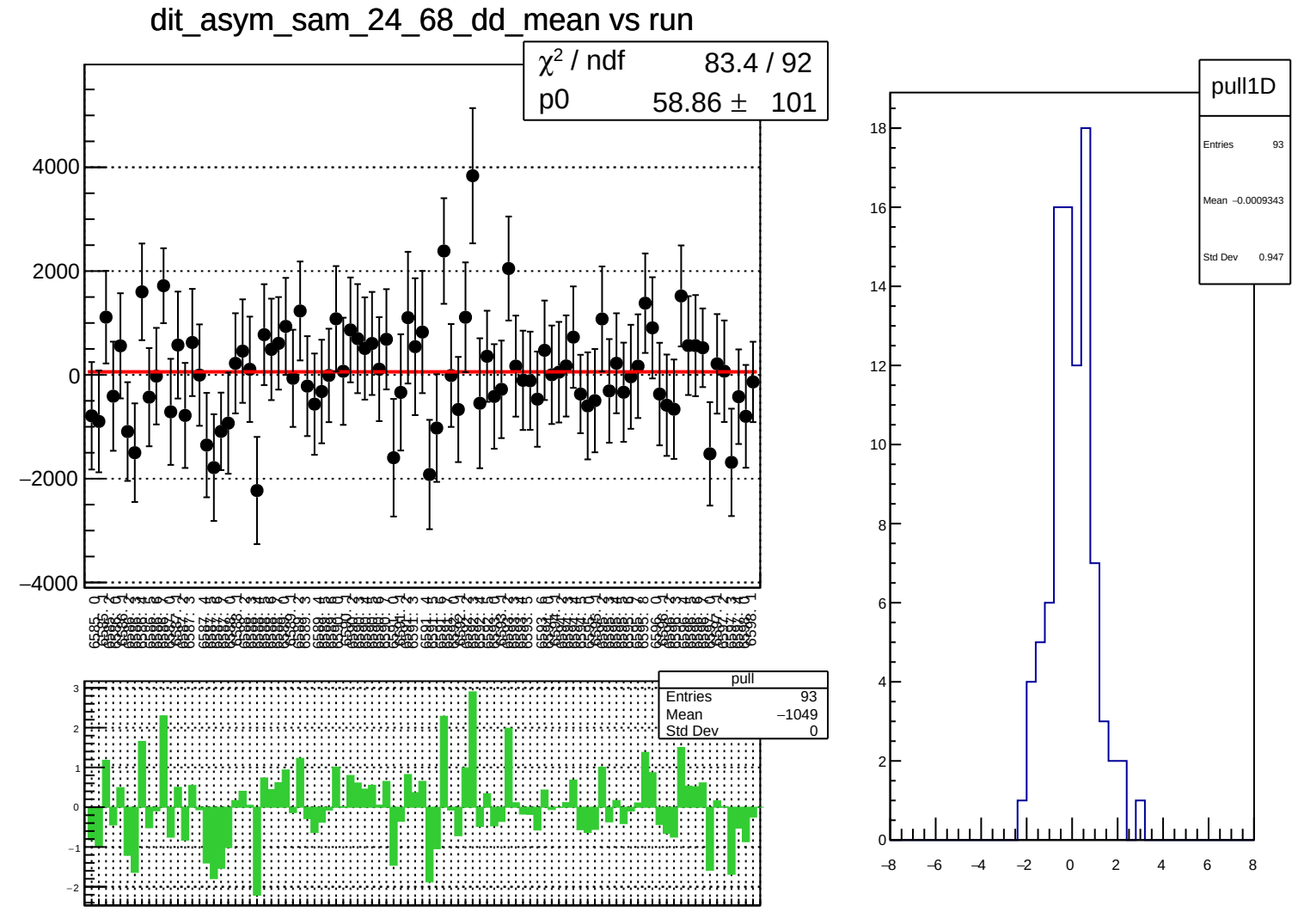

pull1D
Entries 93
Mean −0.002336
Std Dev 0.9196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

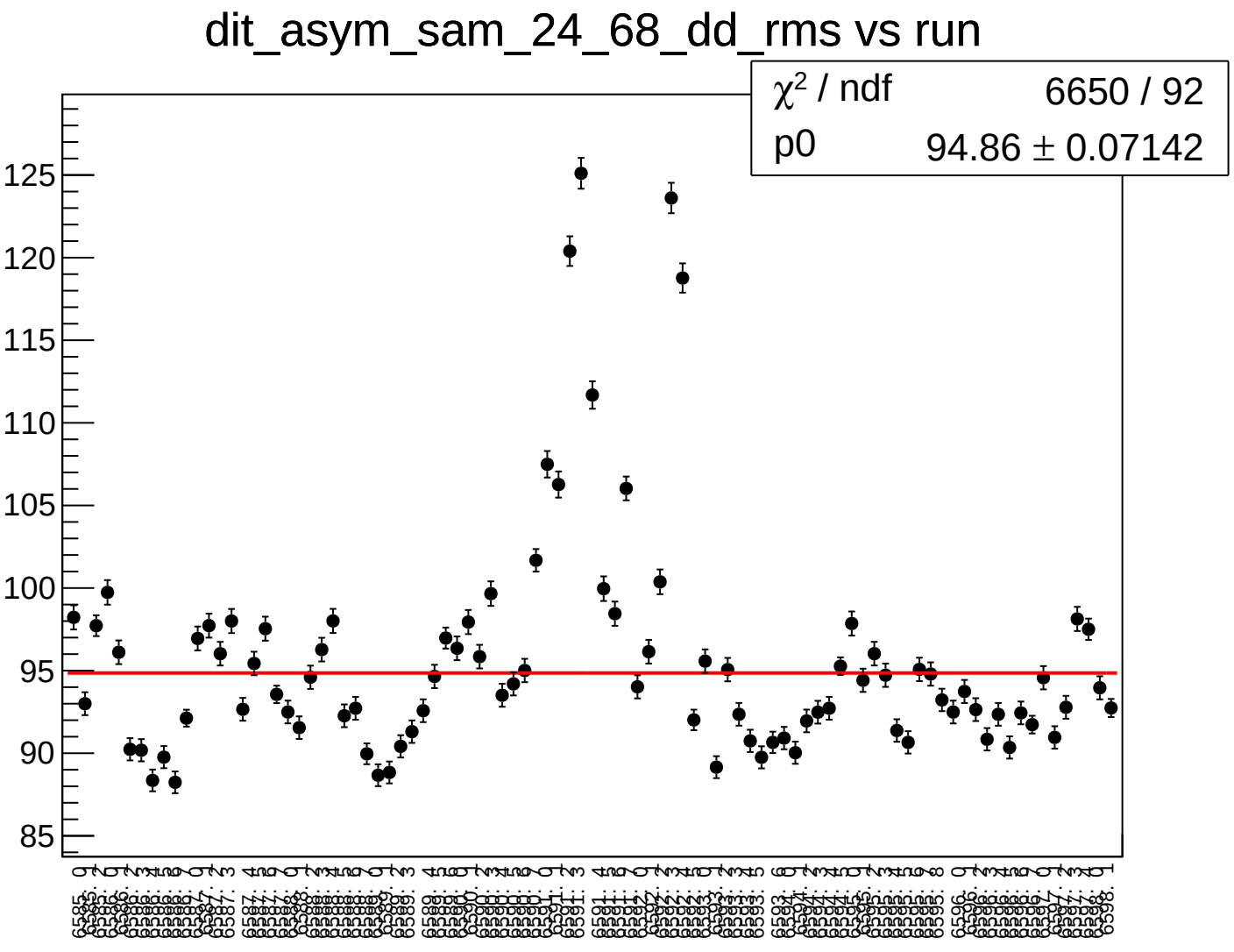

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 3243 / 92
p0 85.06 ± 0.06398
100
95
90
85
80

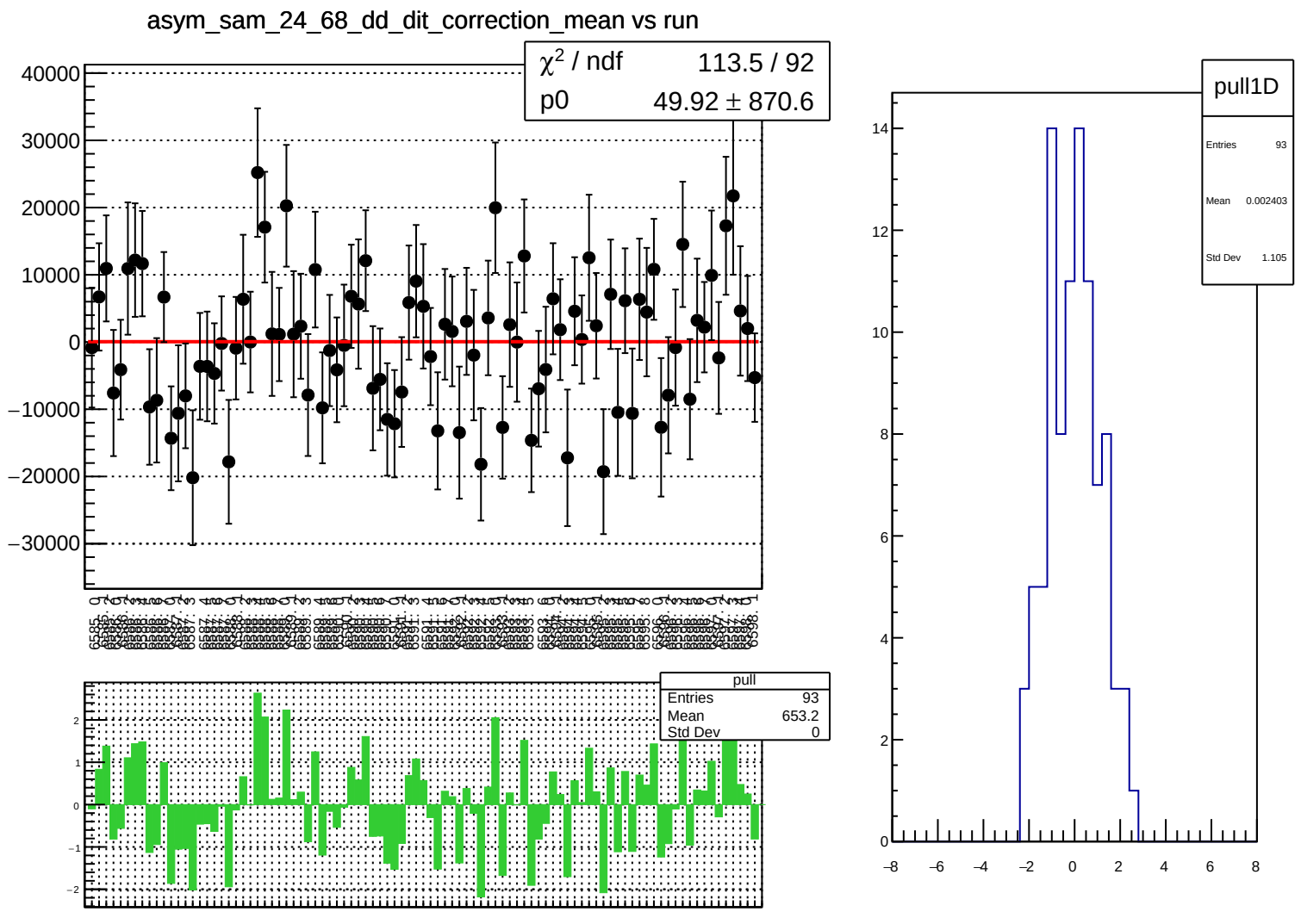

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −44.91 ± 862.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 703.8
Std Dev 0
2
1
0
−1
−2

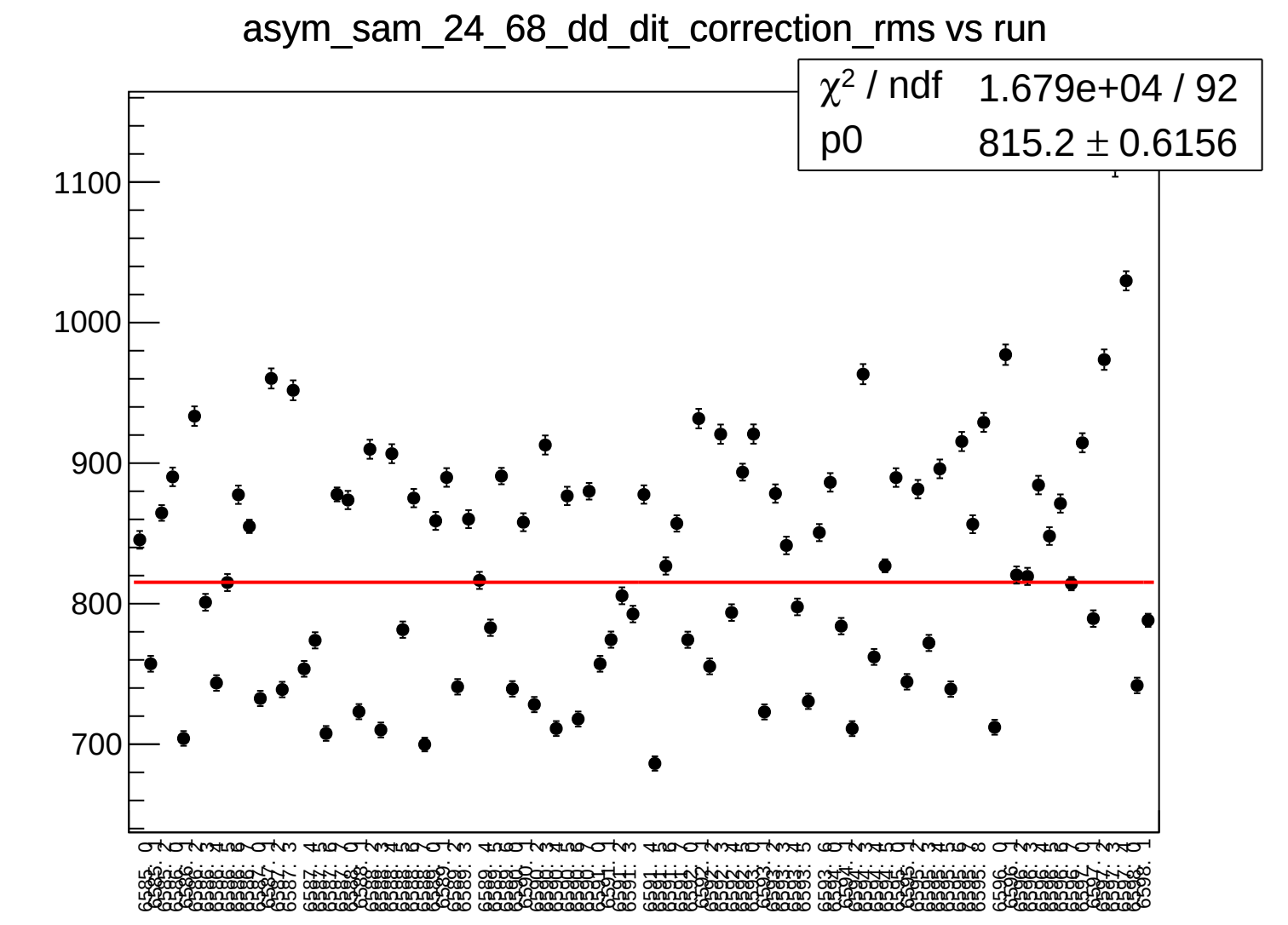

pull1D
Entries 93
Mean 0.00219
Std Dev 1.102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

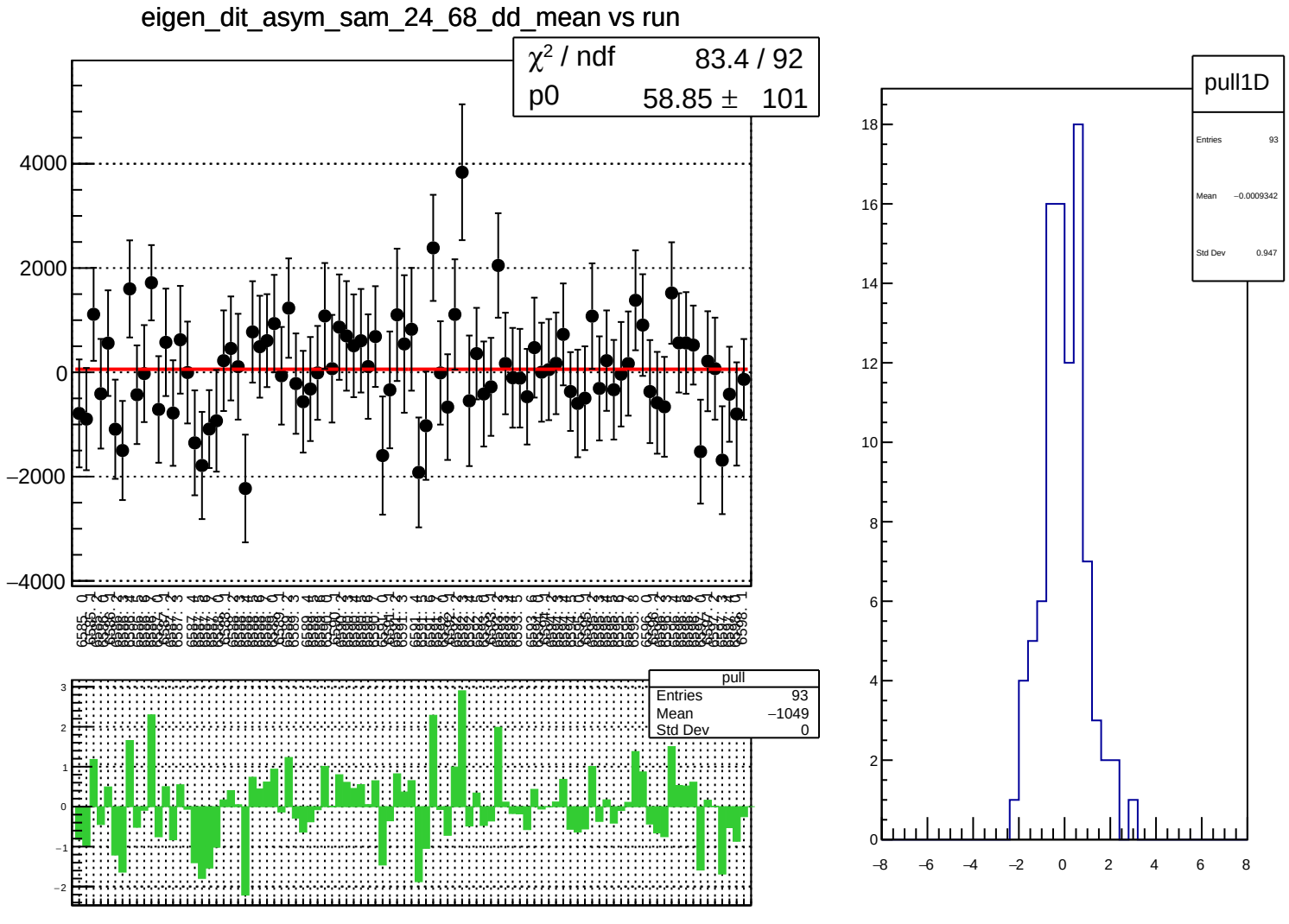

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.898e+04 / 92
p0 807.1 ± 0.6099
1100
1000
900
800
700

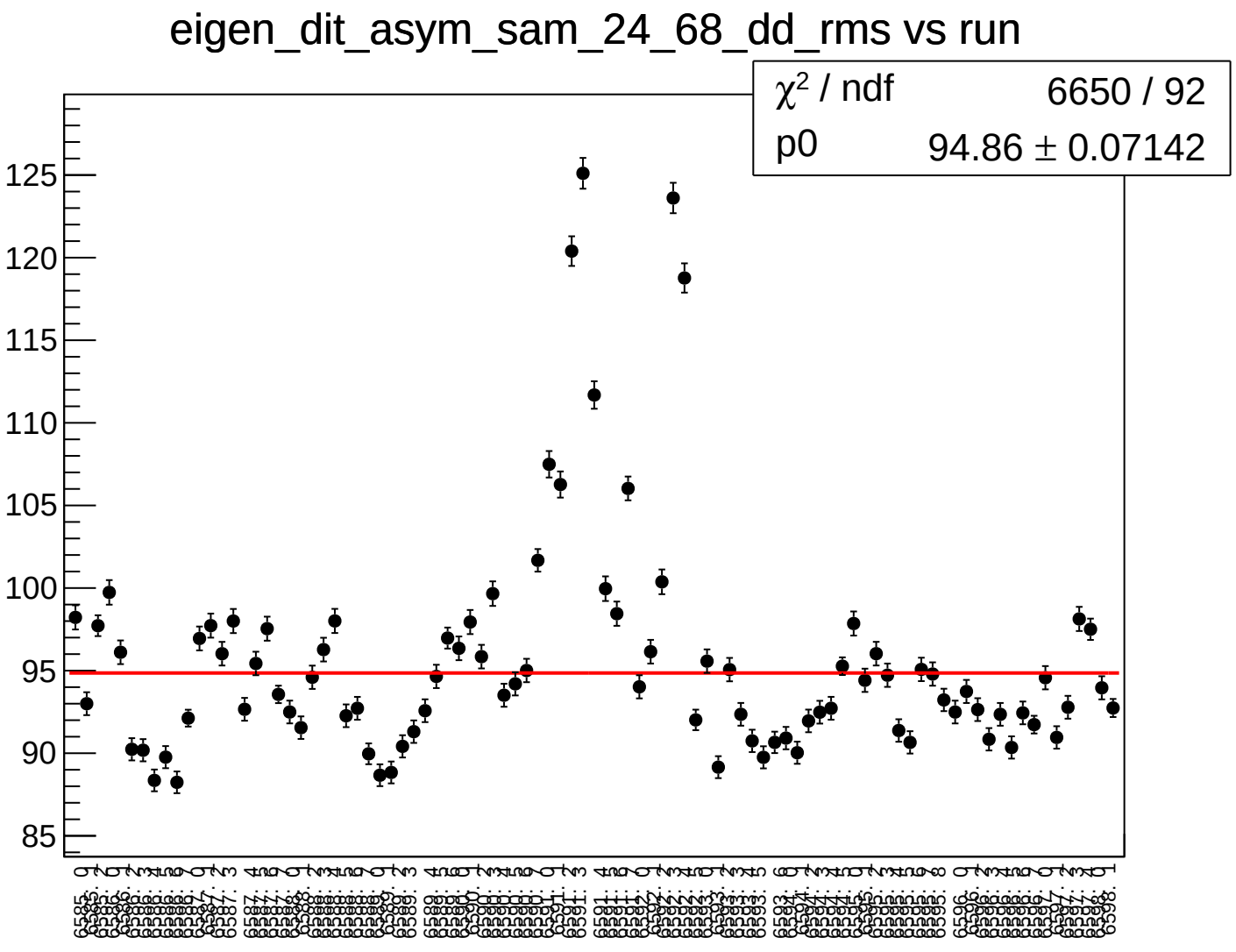

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.4 / 92
p0 58.86 ± 101
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −1049
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0009343
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

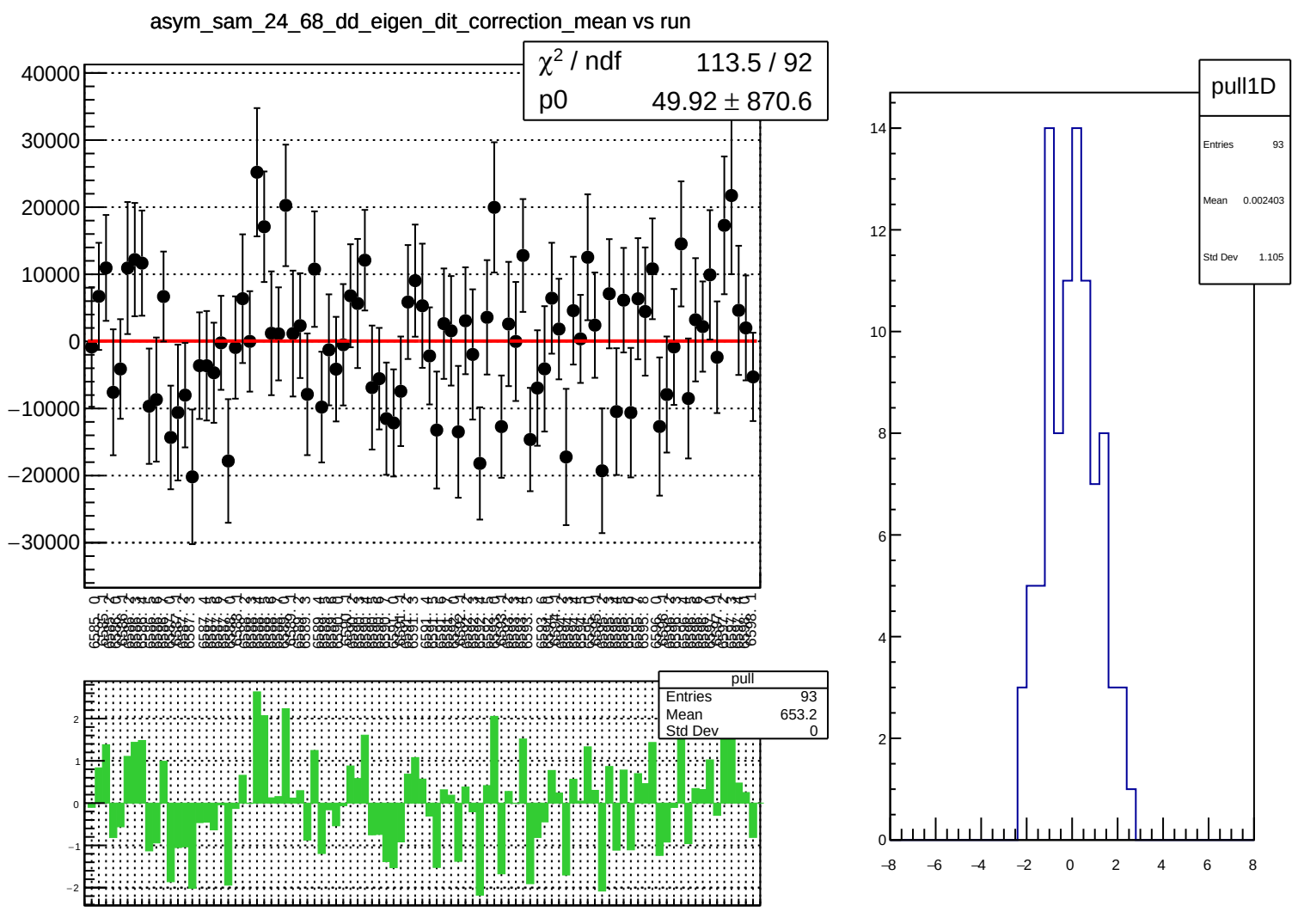

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 6650 / 92
p0 94.86 ± 0.07142
125
120
115
110
105
100
95
90
85

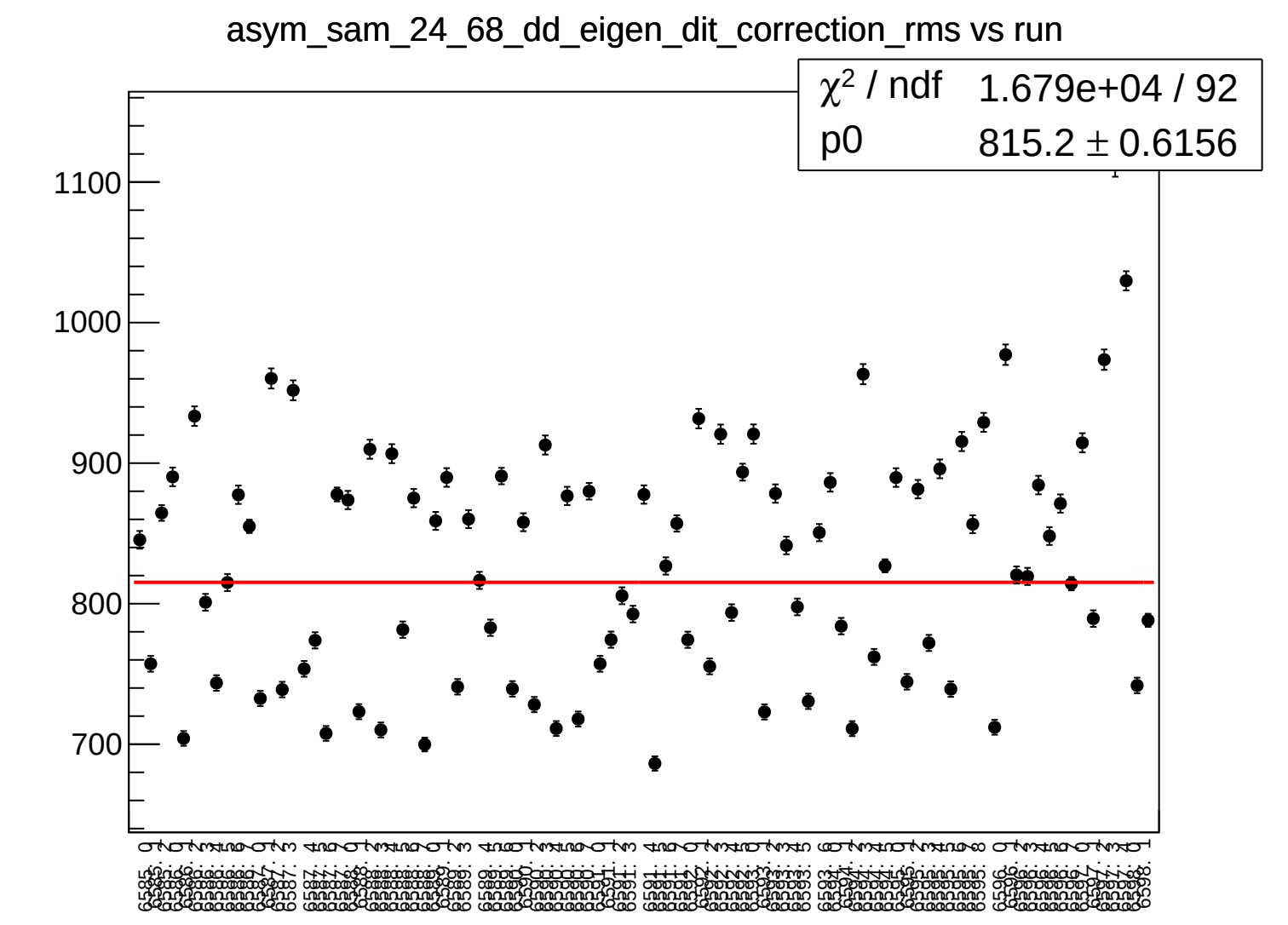

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 113.5 / 92
p0 49.92 ± 870.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 653.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002403
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

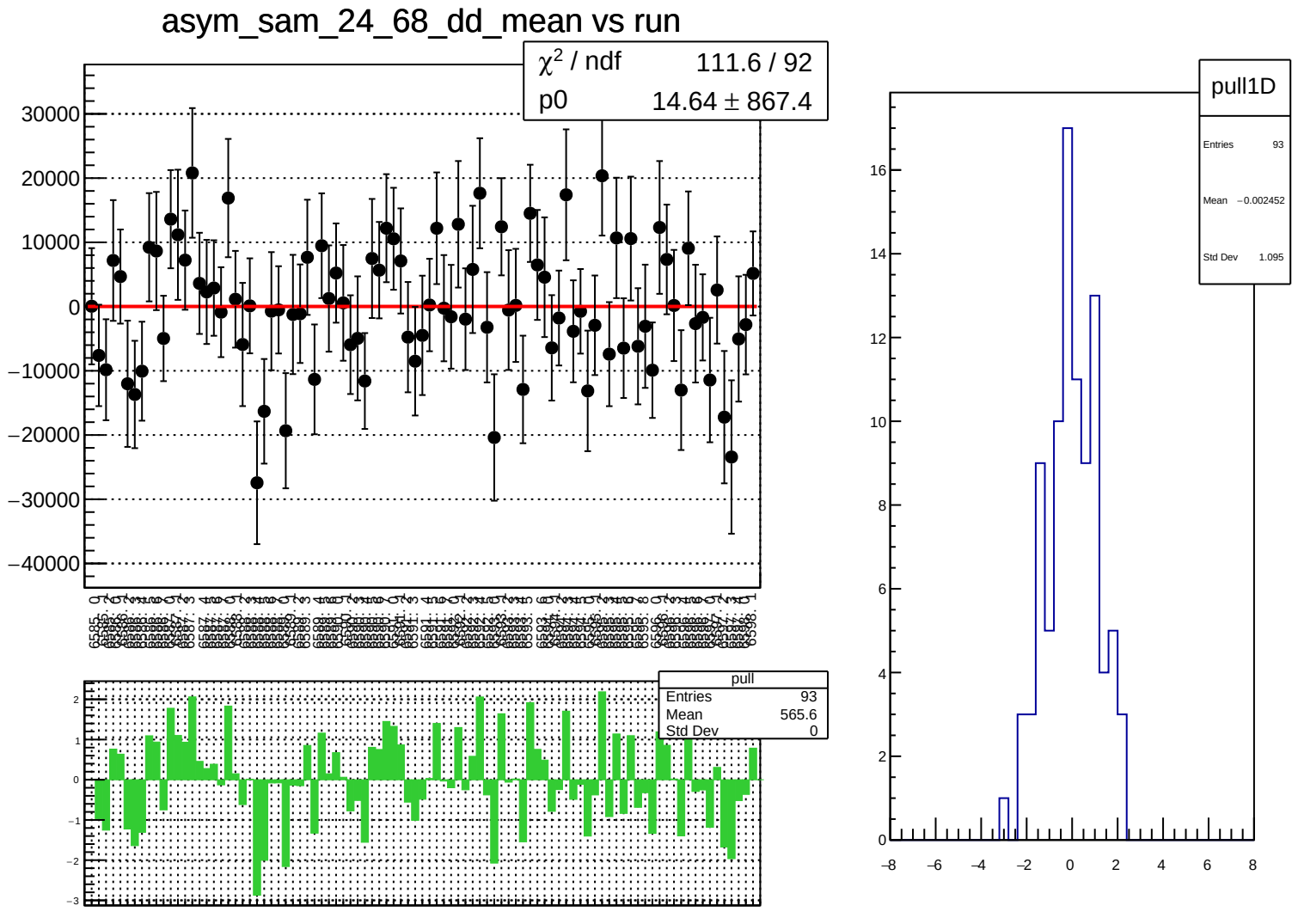

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.679e+04 / 92
p0 815.2 ± 0.6156
1100
1000
900
800
700

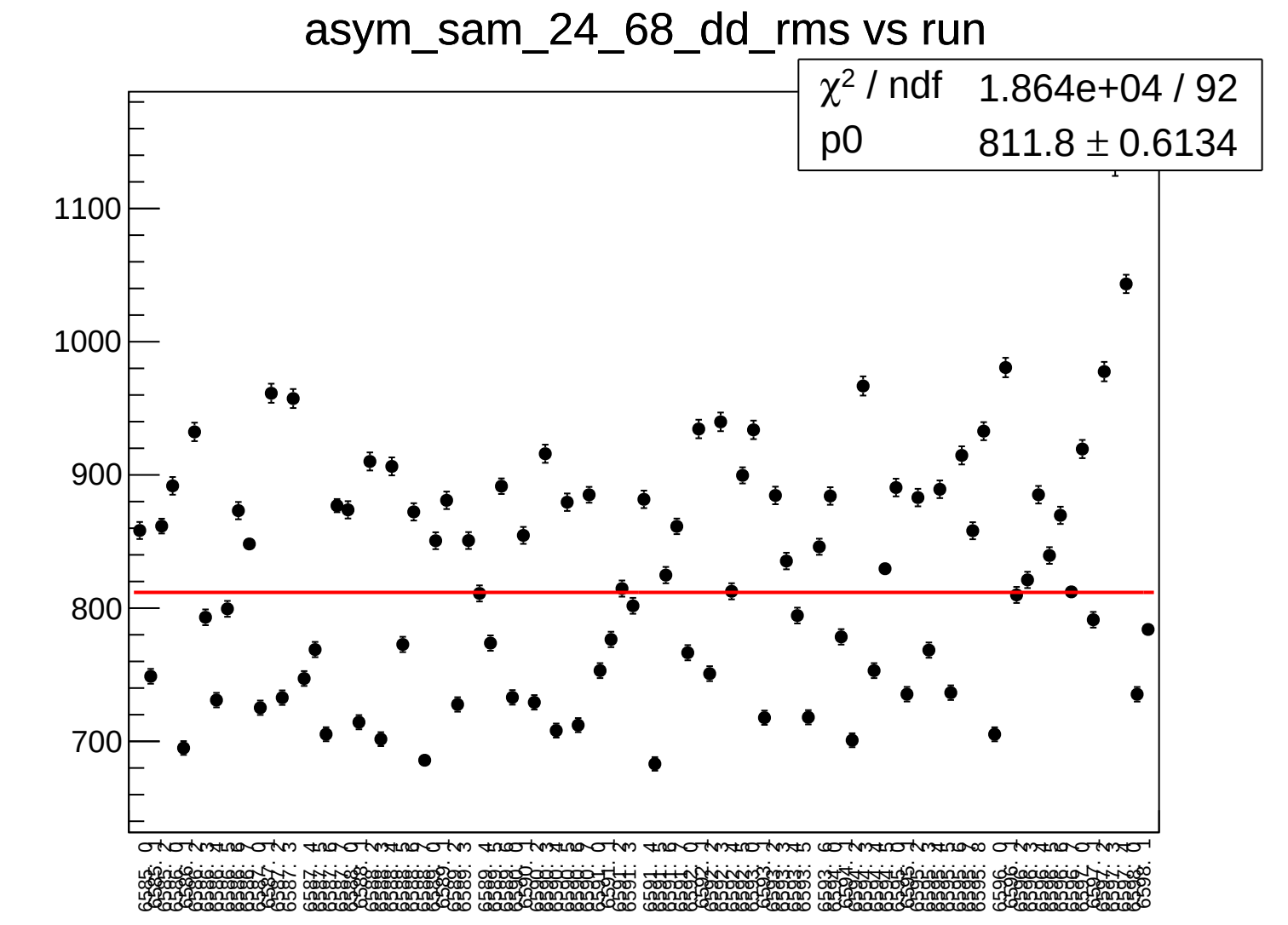

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.4 / 92
p0 58.85 ± 101
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −1049
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0009342
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

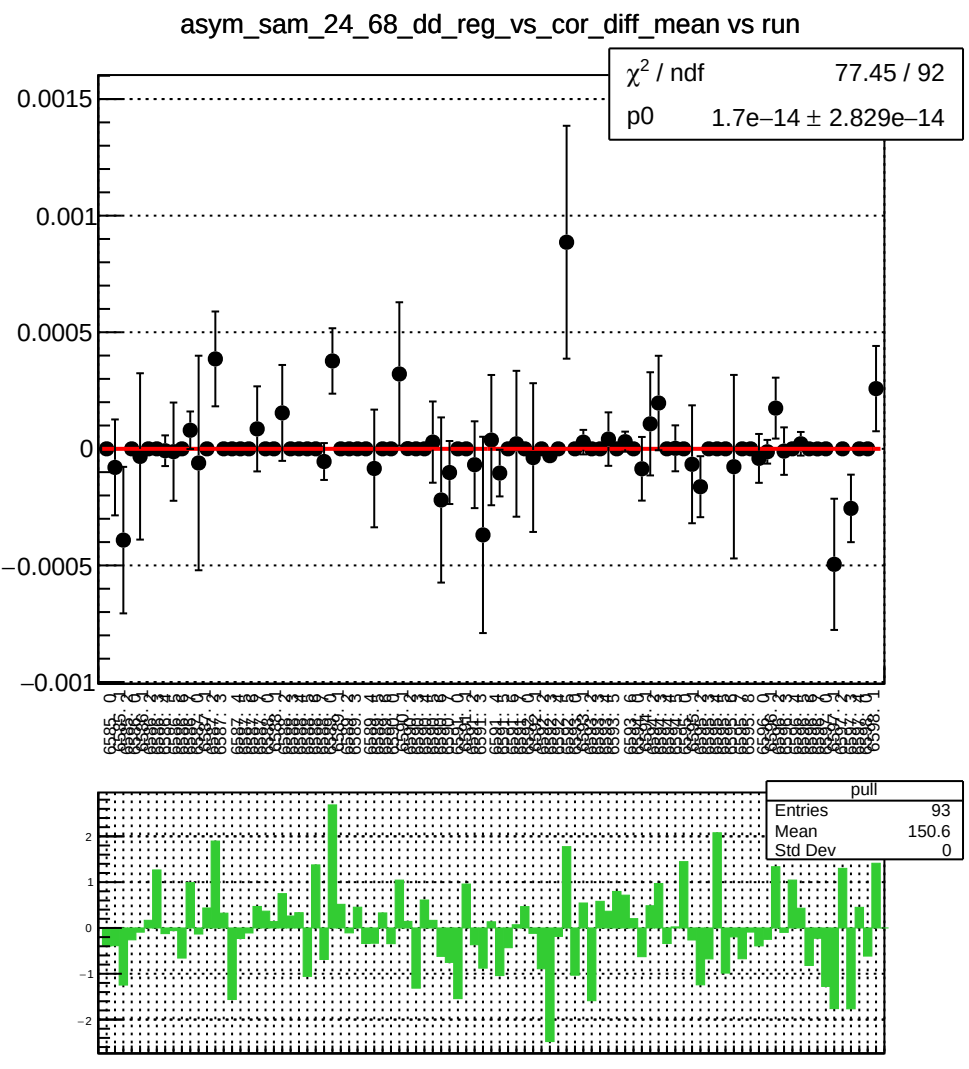

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 6650 / 92
p0 94.86 ± 0.07142
125
120
115
110
105
100
95
90
85

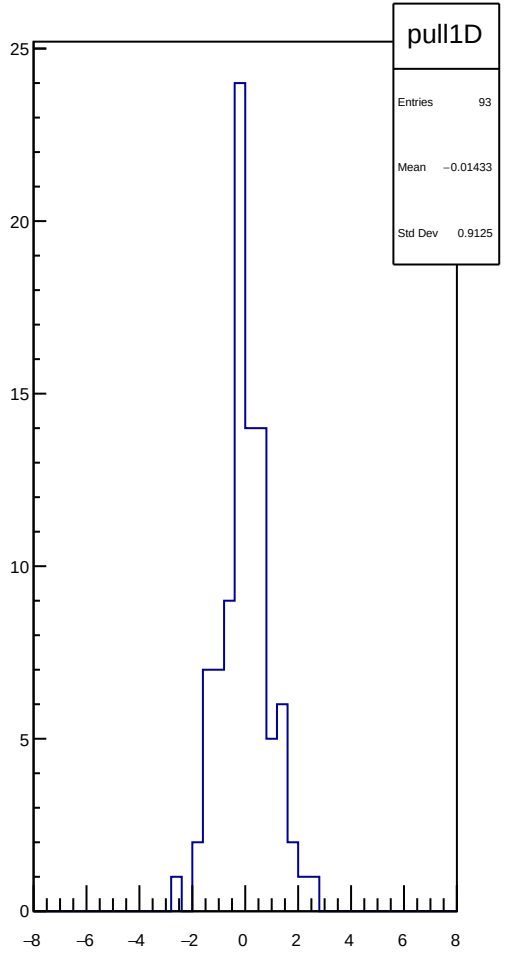

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.5 / 92
p0 49.92 ± 870.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 653.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002403
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

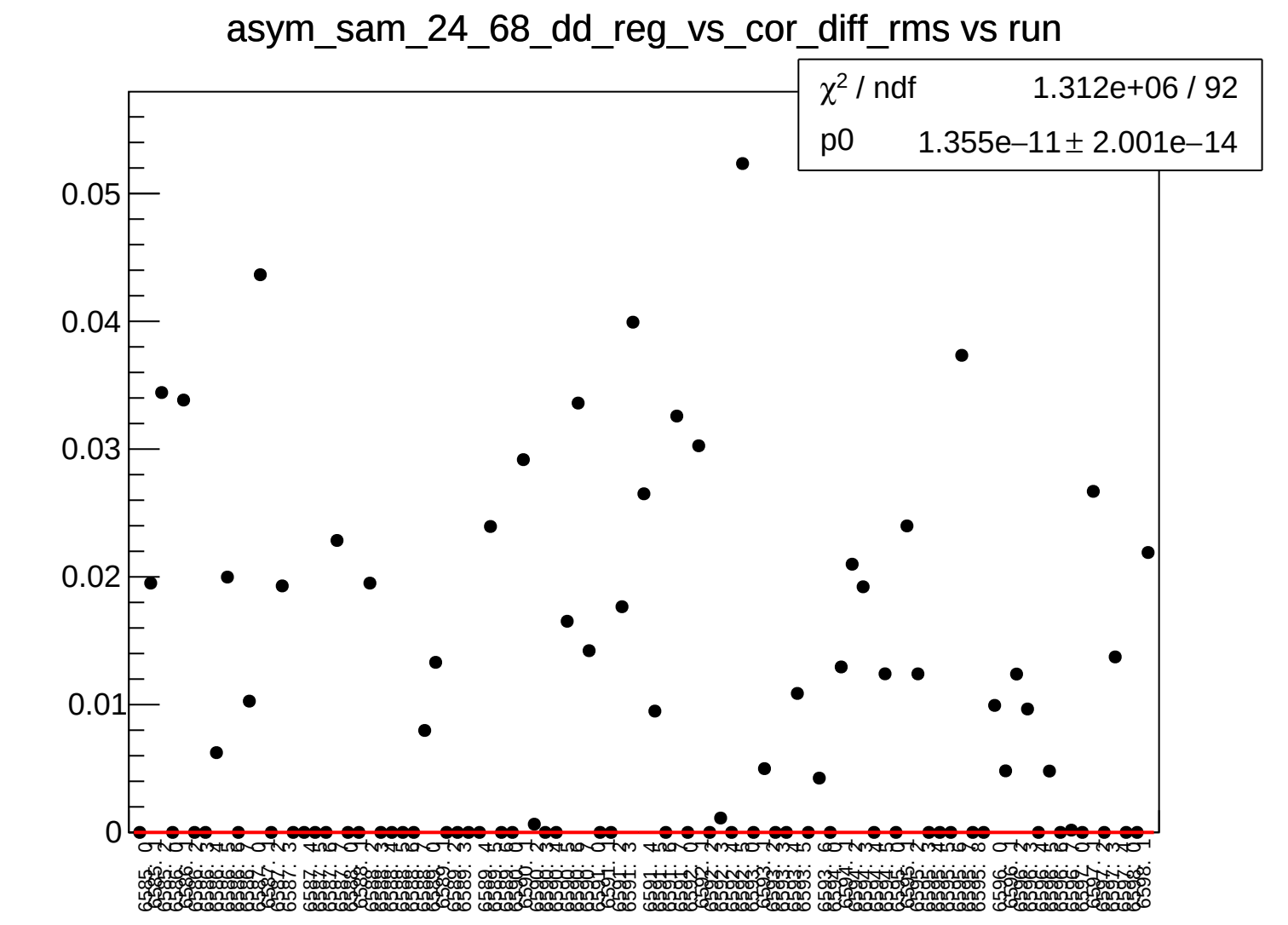

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.679e+04 / 92
p0 815.2 ± 0.6156
1100
1000
900
800
700

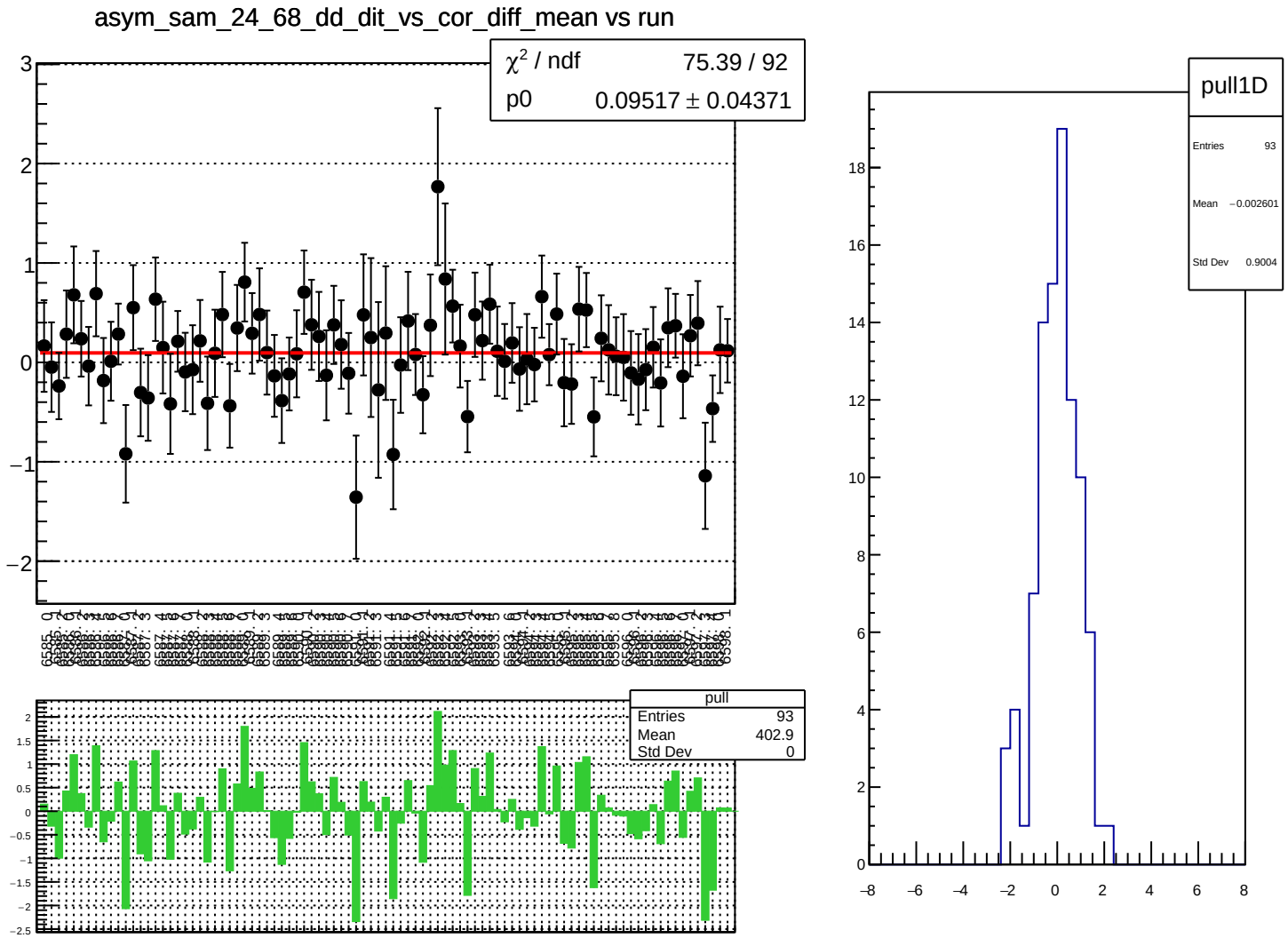

asym_sam_24_68_dd_mean vs run
χ^2 / ndf 111.6 / 92
p0 14.64 ± 867.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 565.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002452
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

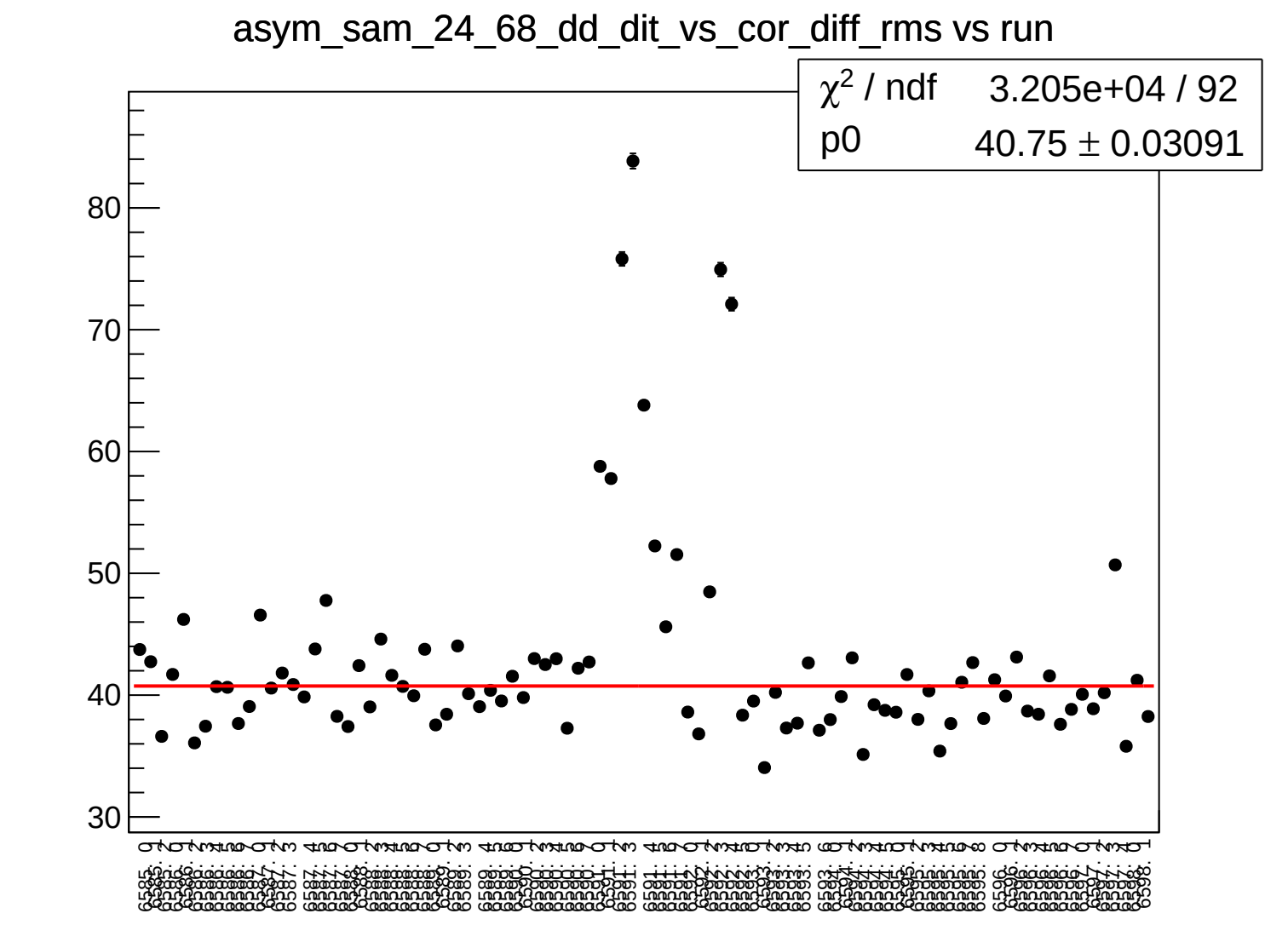

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.864e+04 / 92
p0 811.8 ± 0.6134
1100
1000
900
800
700

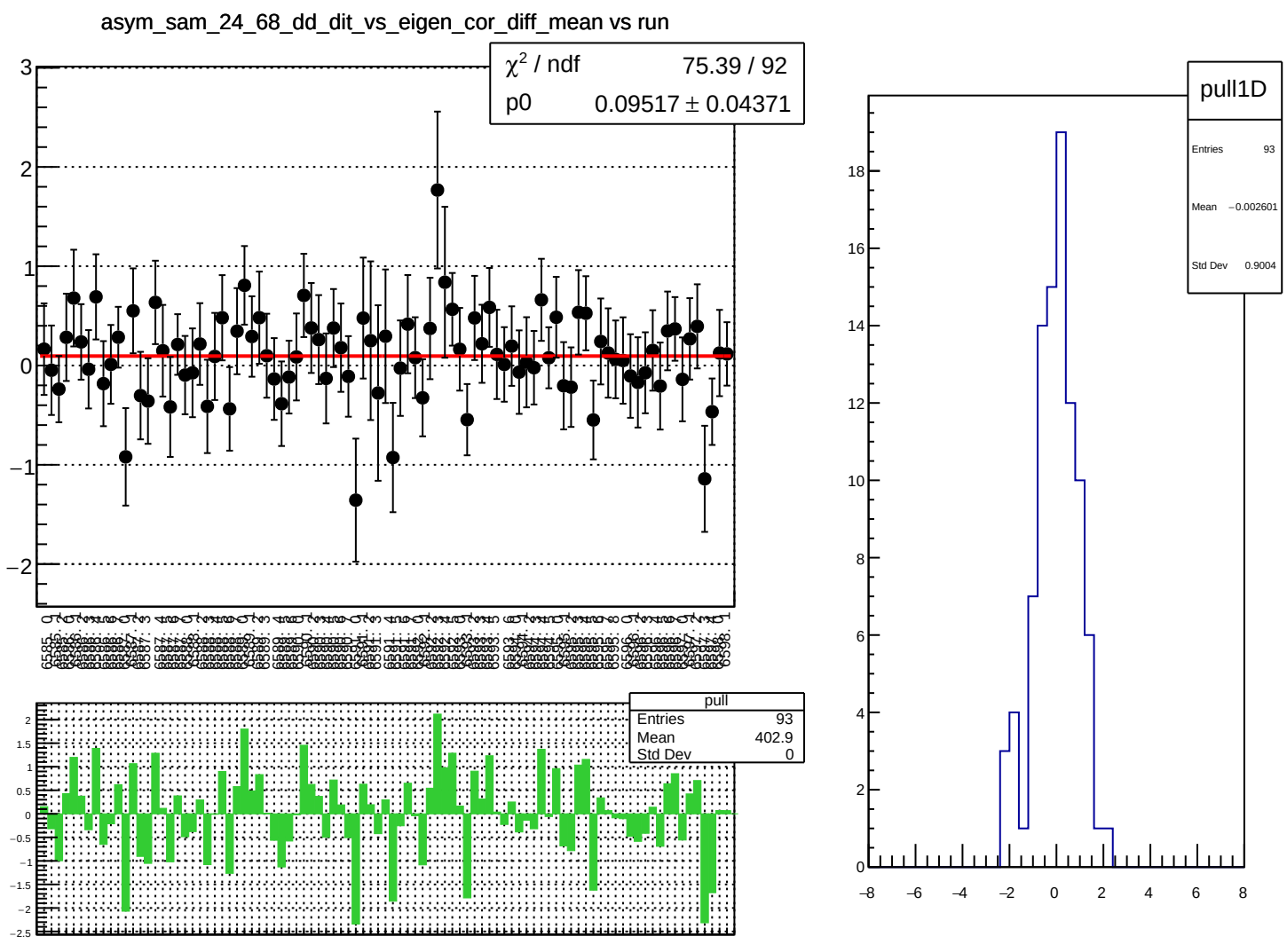

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.45 / 92
p0 1.7e−14 ± 2.829e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 150.6
Std Dev 0
2
1
0
−1
−2

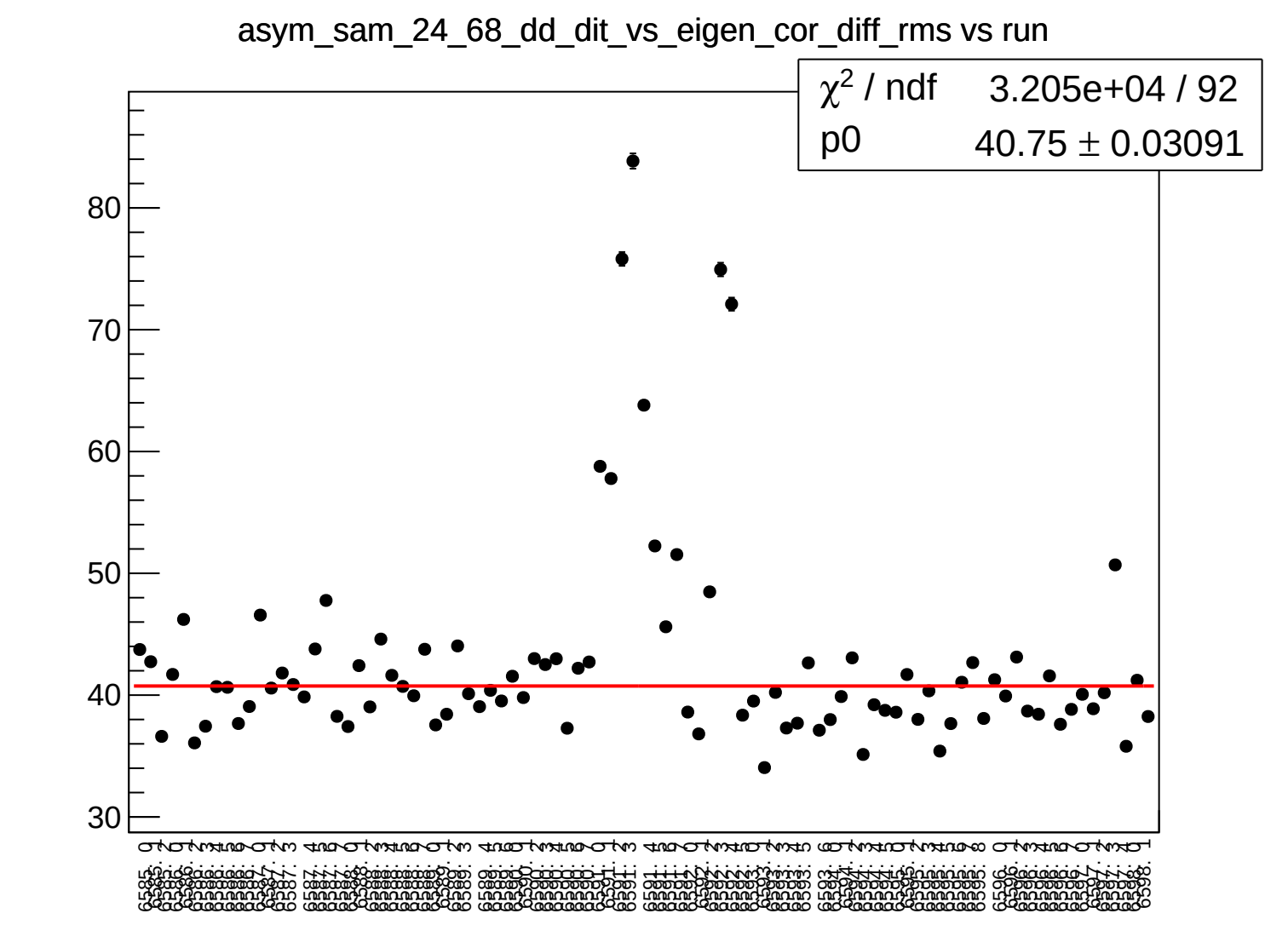

pull1D
Entries 93
Mean −0.01433
Std Dev 0.9125
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

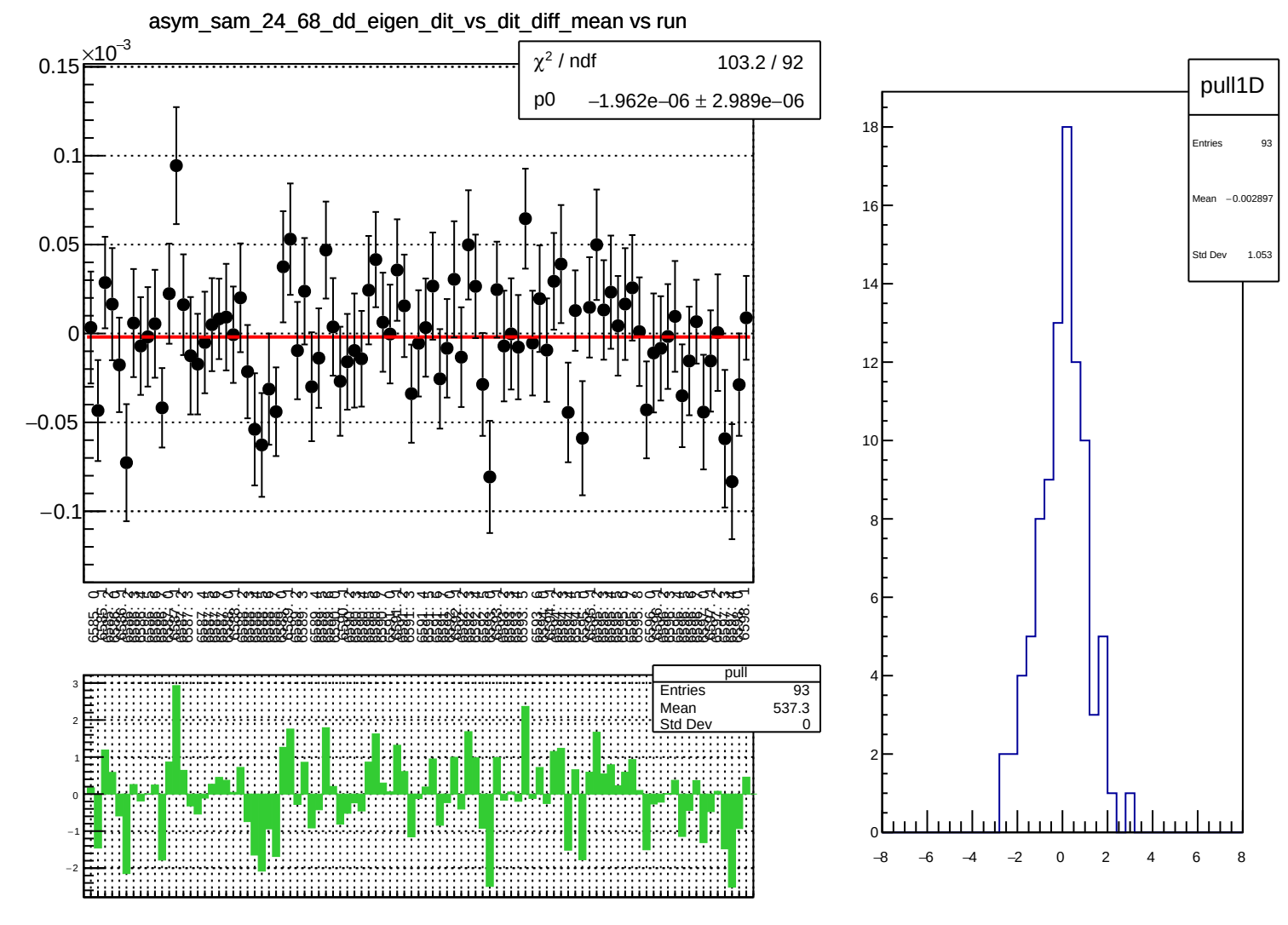

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.312e+06 / 92
p0 1.355e−11 ± 2.001e−14
0.05
0.04
0.03
0.02
0.01
0

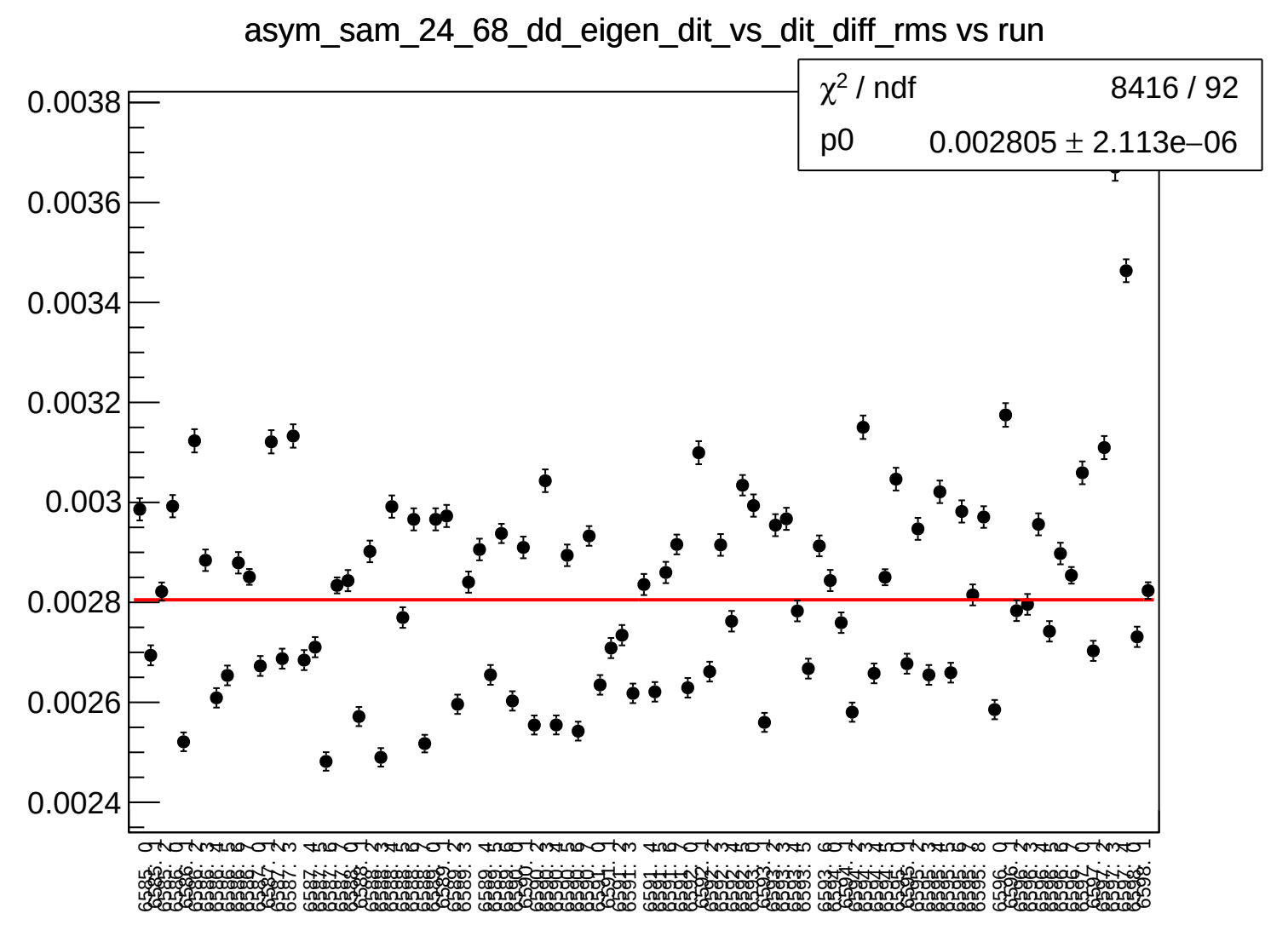

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.39 / 92
p0 0.09517 ± 0.04371
pull
Entries 93
Mean 402.9
Std Dev 0
pull1D
Entries 93
Mean −0.002601
Std Dev 0.9004

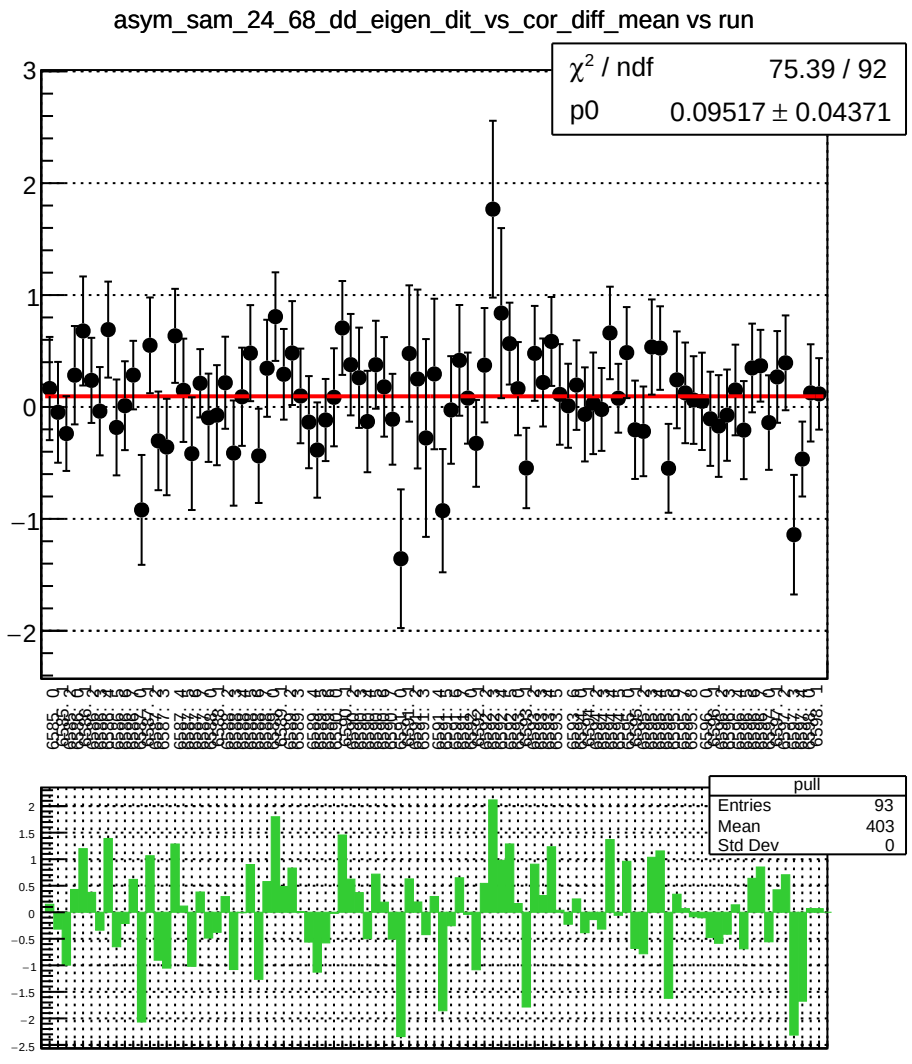

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 92
p0 40.75 ± 0.03091
80
70
60
50
40
30

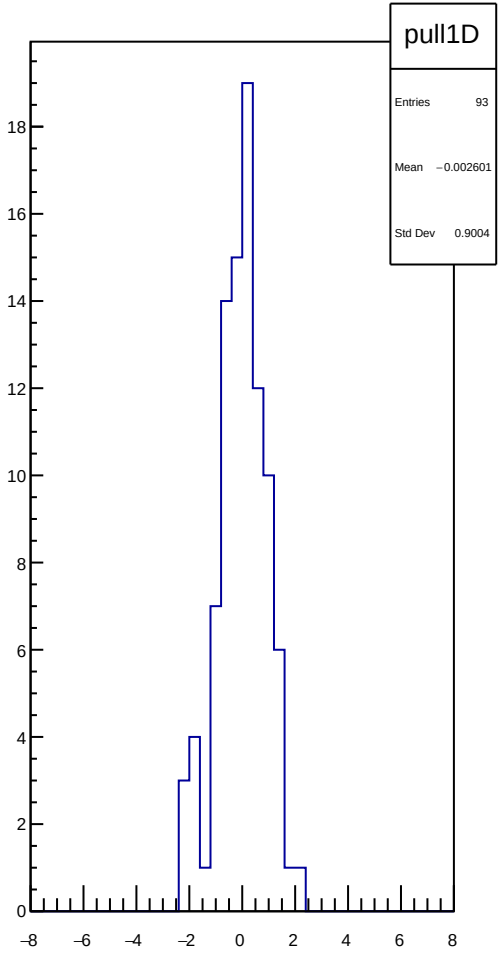

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.39 / 92
p0 0.09517 ± 0.04371
pull
Entries 93
Mean 402.9
Std Dev 0
pull1D
Entries 93
Mean −0.002601
Std Dev 0.9004

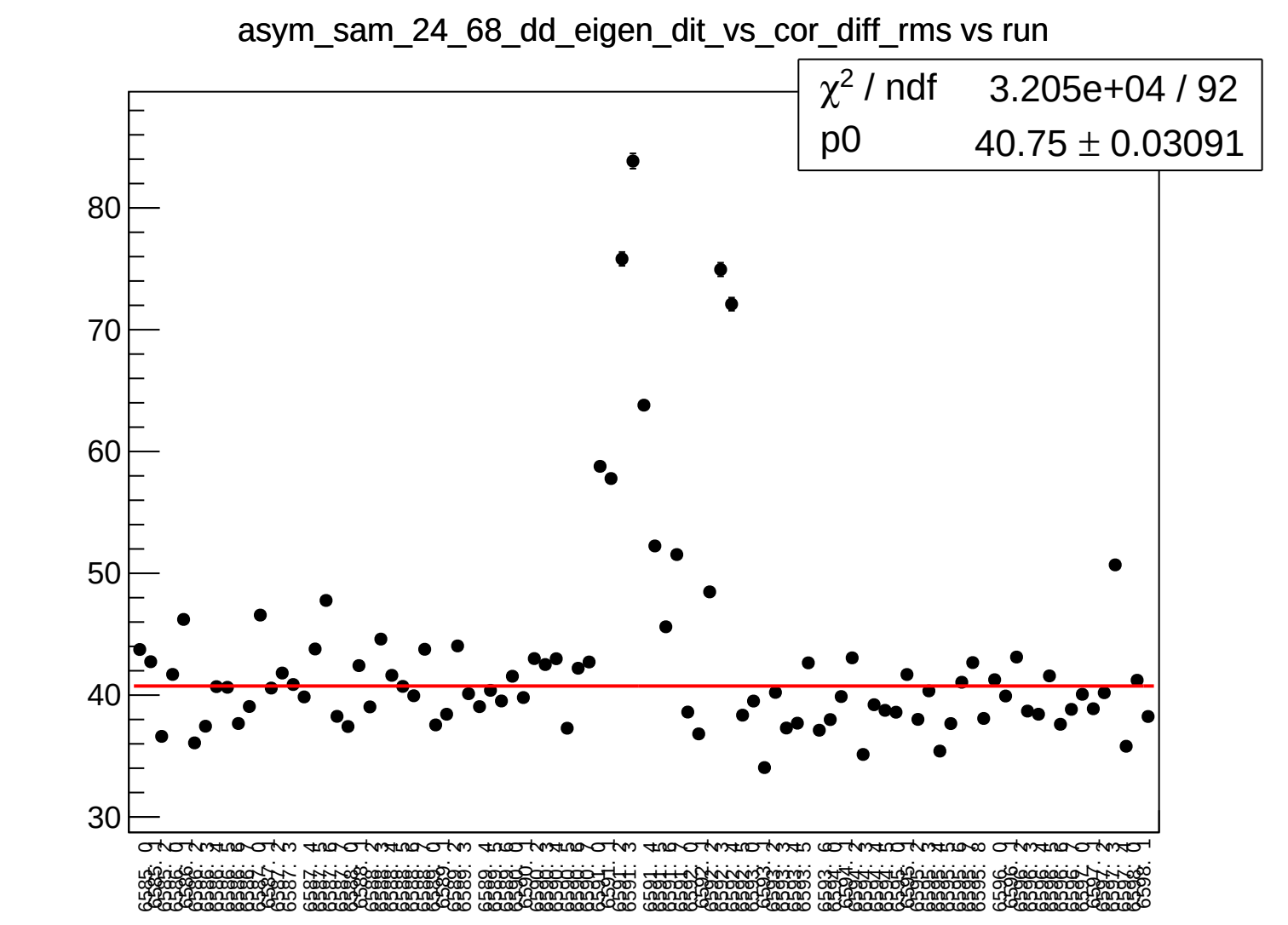

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 92
p0 40.75 ± 0.03091
80
70
60
50
40
30

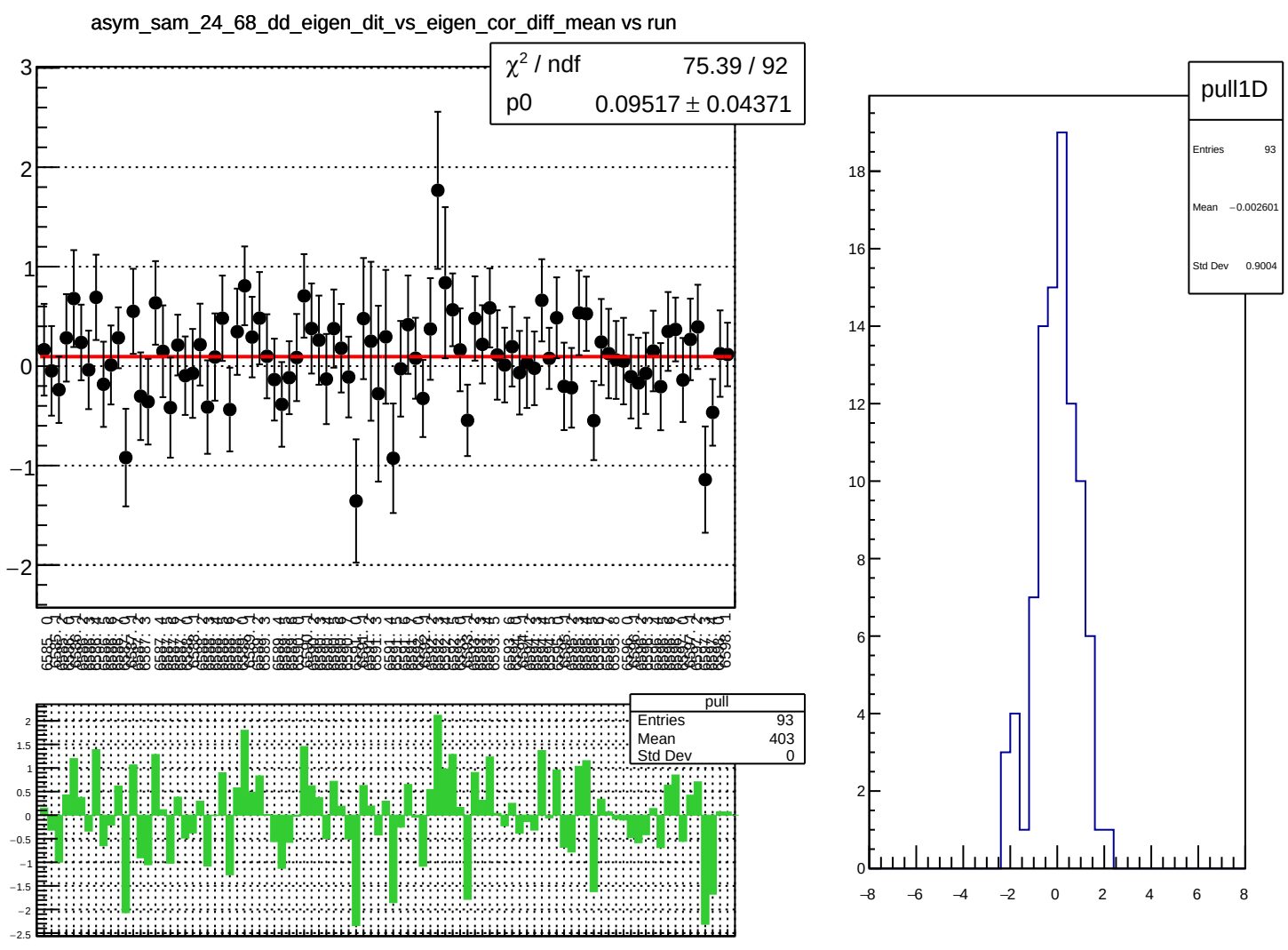

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.2 / 92
p0 −1.962e−06 ± 2.989e−06
pull
Entries 93
Mean 537.3
Std Dev 0
pull1D
Entries 93
Mean −0.002897
Std Dev 1.053

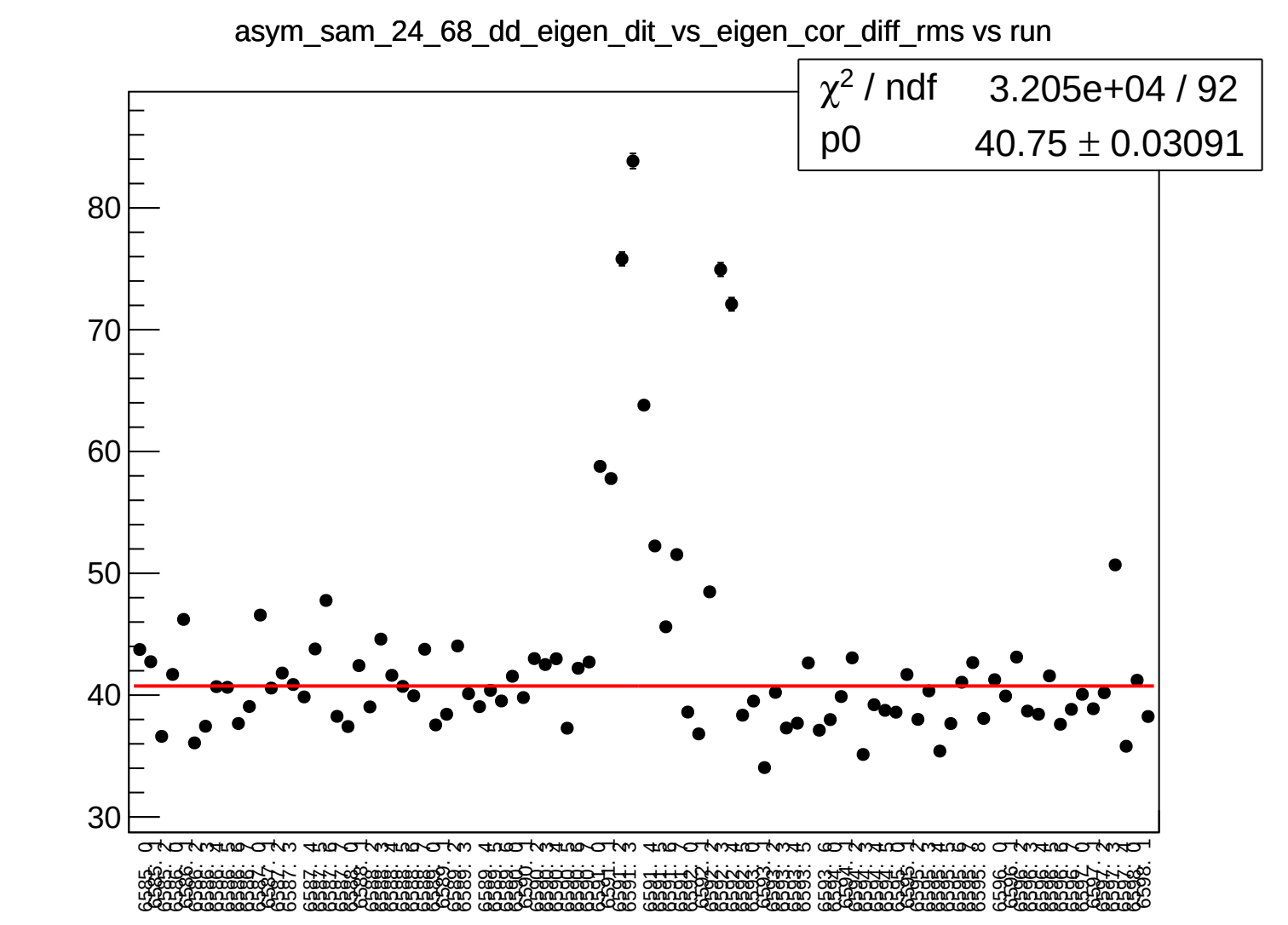

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8416 / 92
p0 0.002805 ± 2.113e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

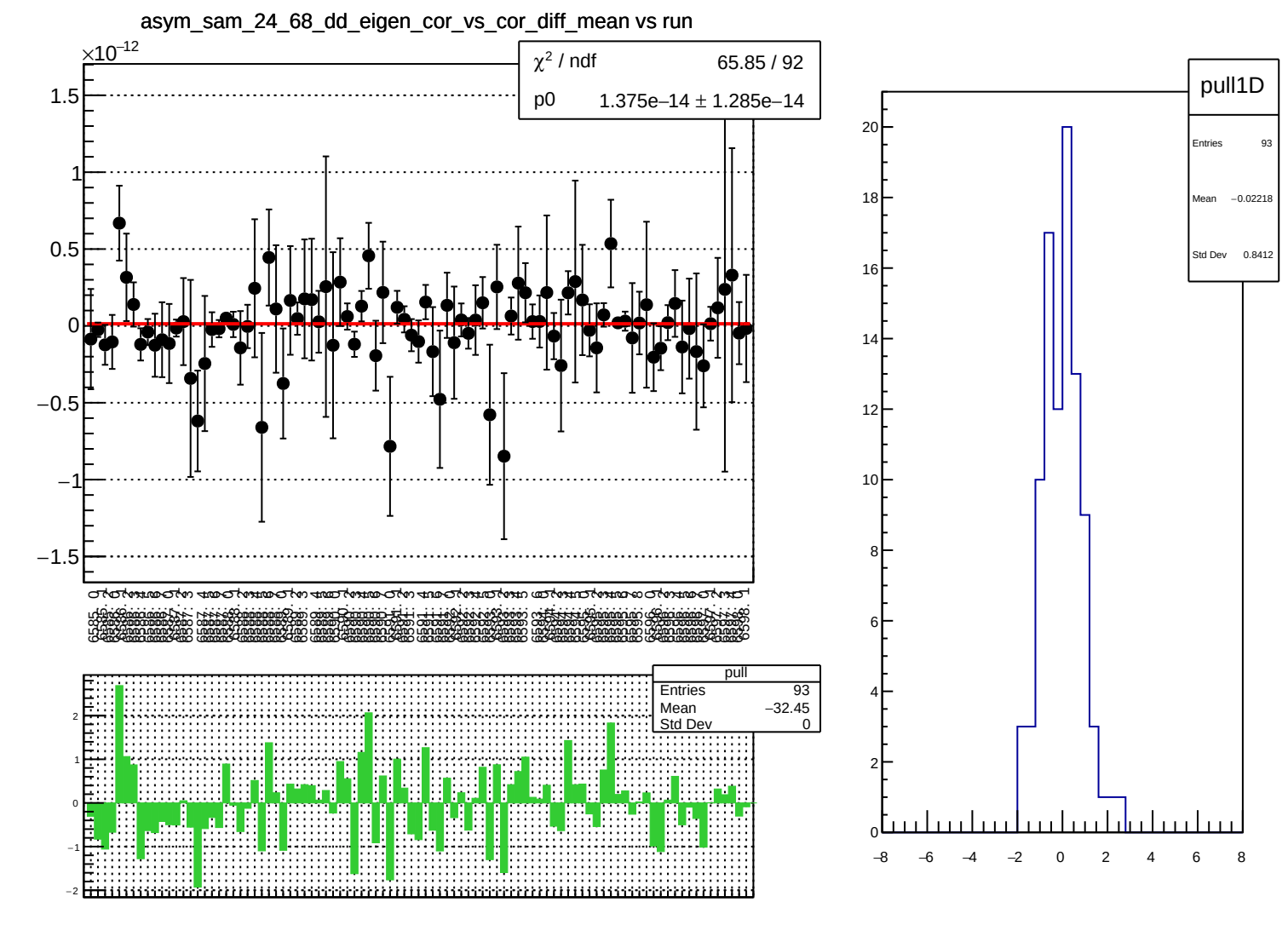

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.39 / 92
p0 0.09517 ± 0.04371
pull
Entries 93
Mean 403
Std Dev 0

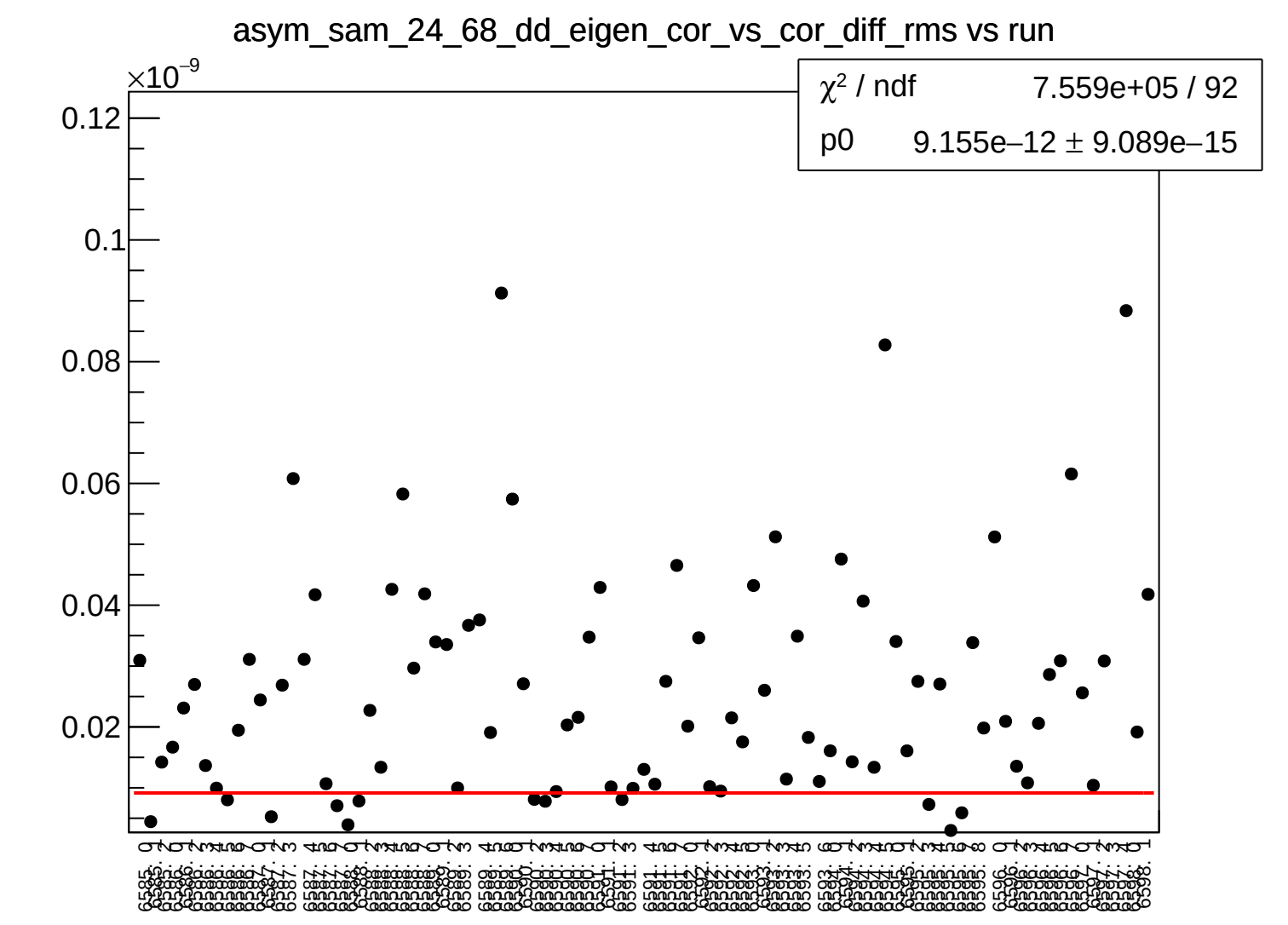

pull1D
Entries 93
Mean −0.002601
Std Dev 0.9004

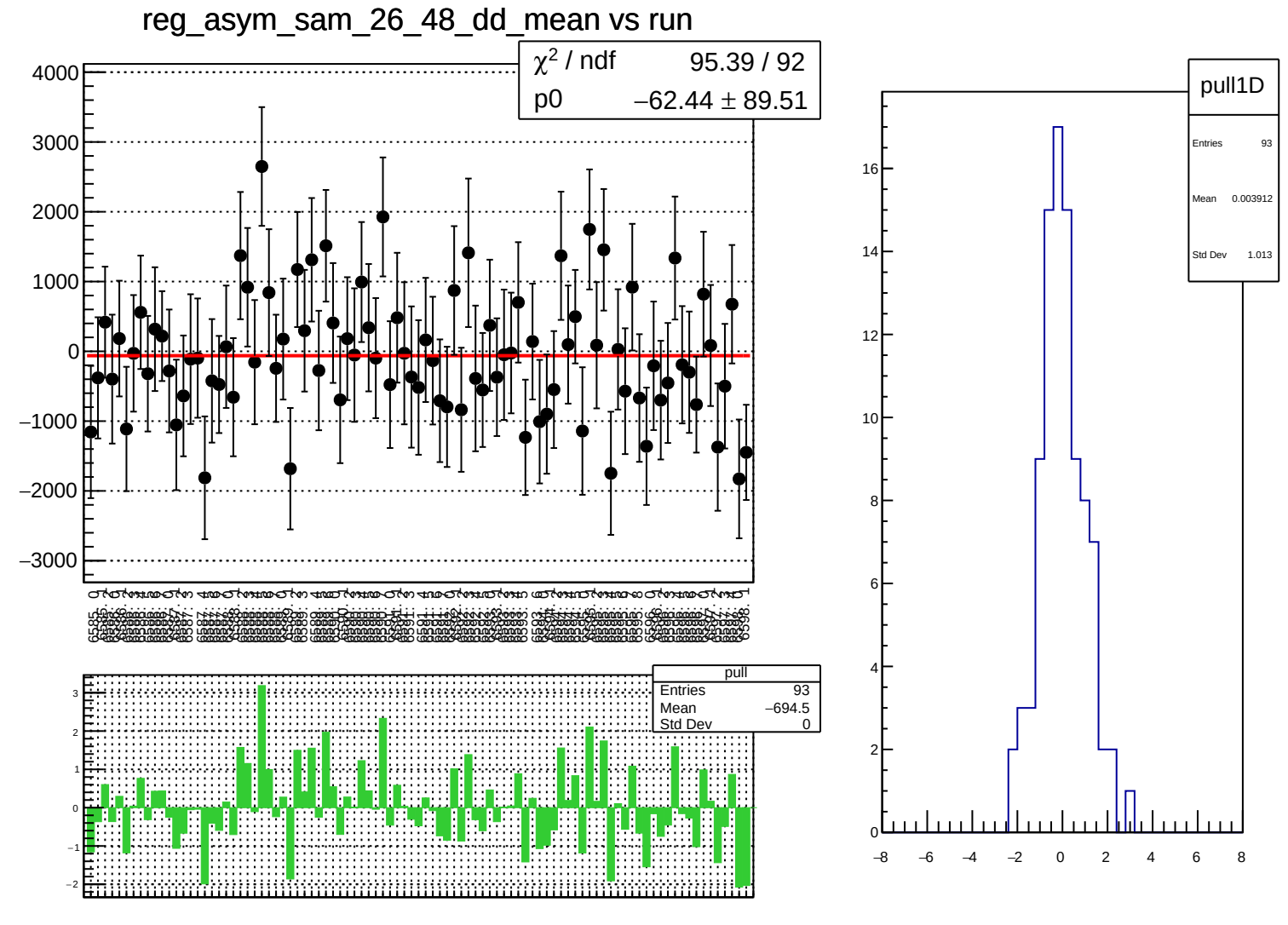

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 92
p0 40.75 ± 0.03091
80
70
60
50
40
30

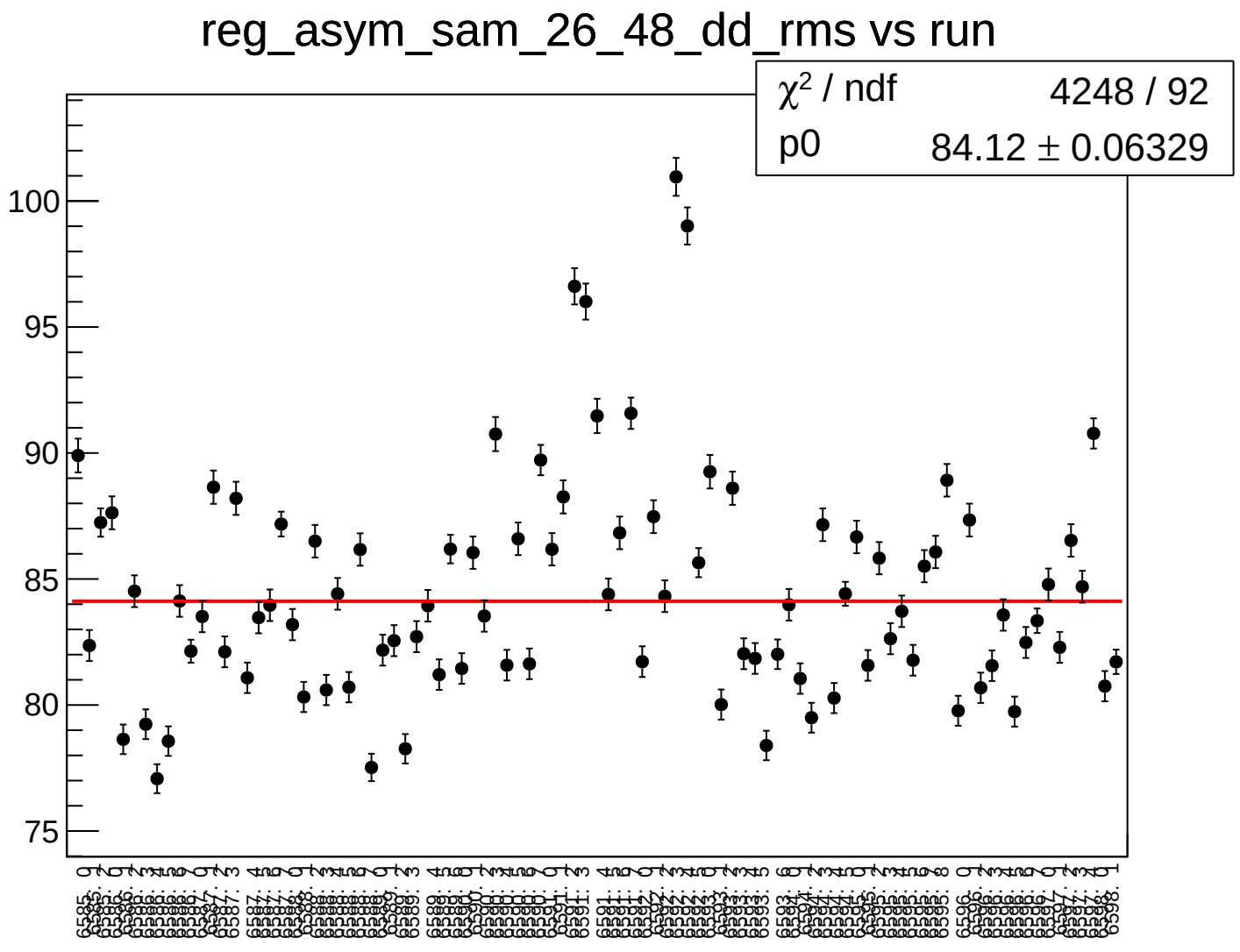

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.39 / 92
p0 0.09517 ± 0.04371
pull
Entries 93
Mean 403
Std Dev 0
pull1D
Entries 93
Mean −0.002601
Std Dev 0.9004

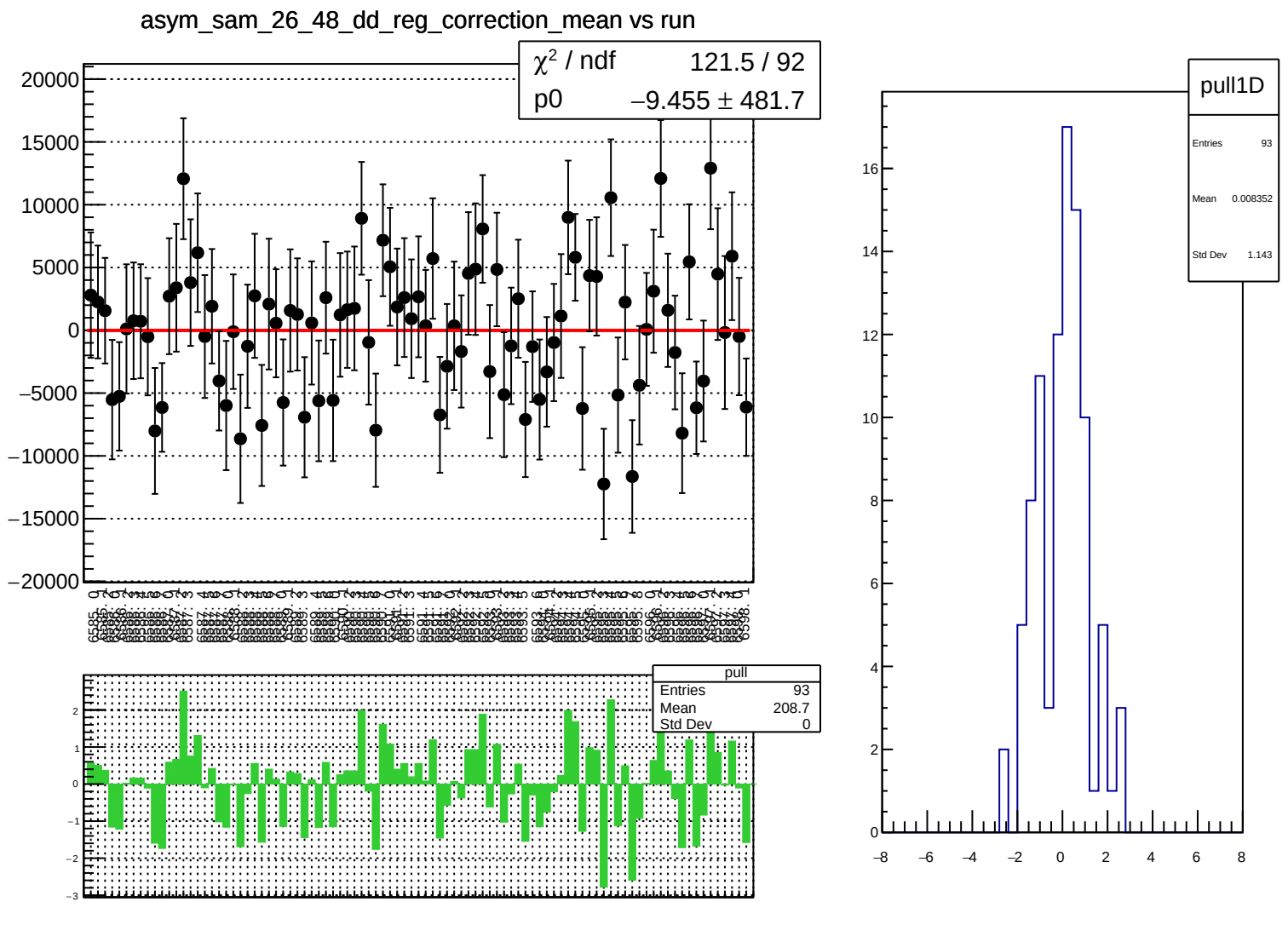

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.205e+04 / 92
p0 40.75 ± 0.03091
80
70
60
50
40
30

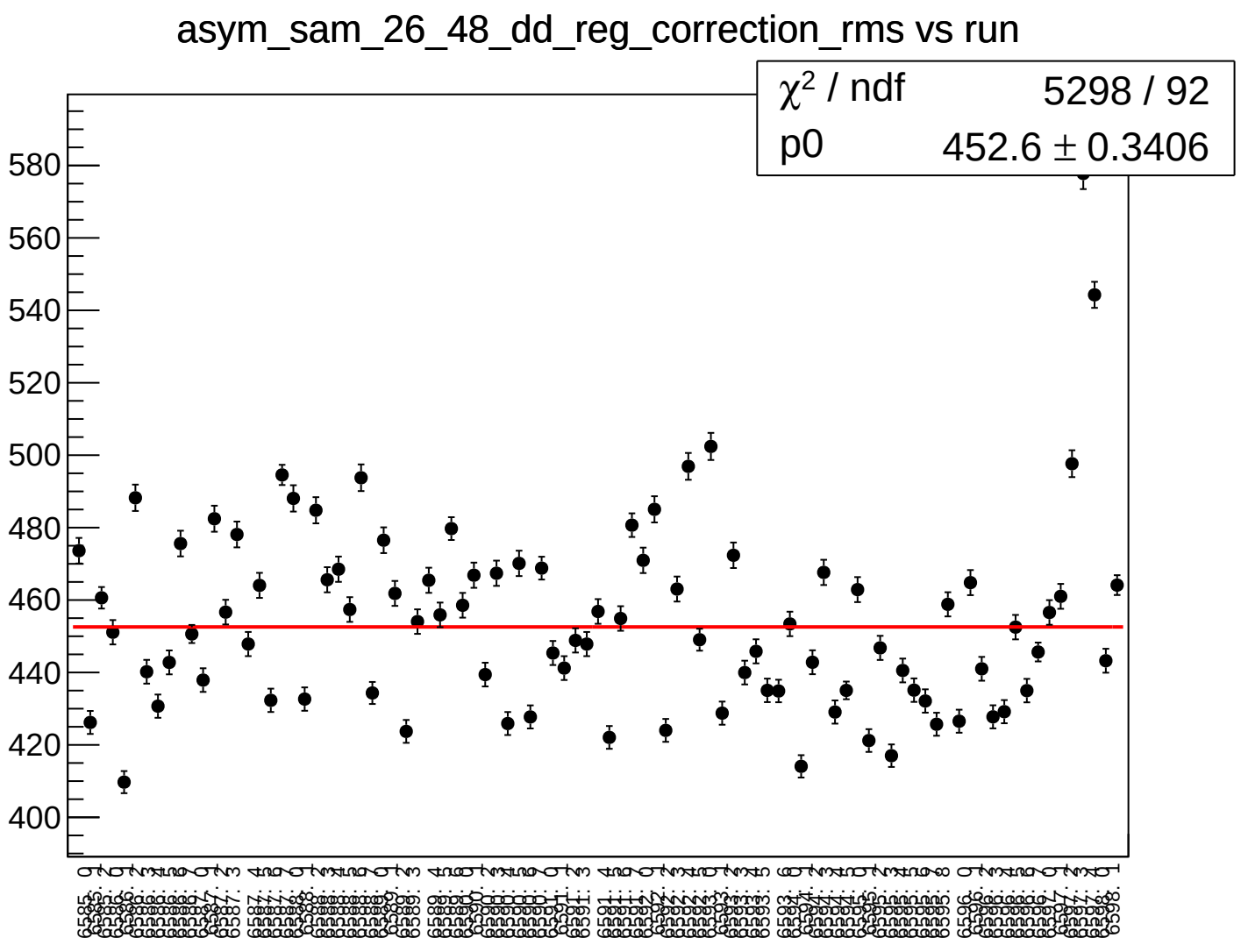

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 65.85 / 92
p0 1.375e−14 ± 1.285e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 93
Mean −32.45
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02218
Std Dev 0.8412
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

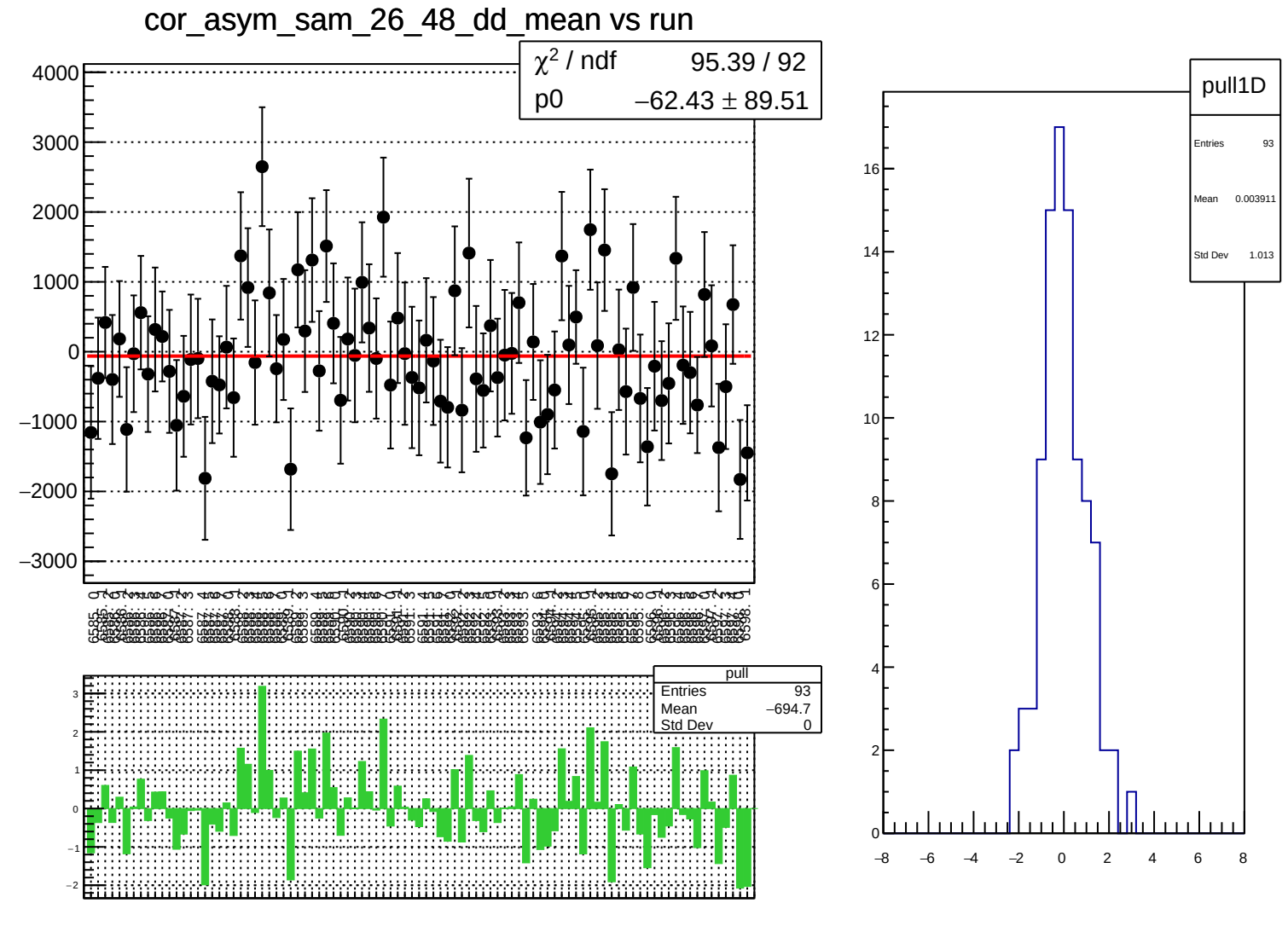

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.559e+05 / 92
p0 9.155e−12 ± 9.089e−15
0.12
0.1
0.08
0.06
0.04
0.02

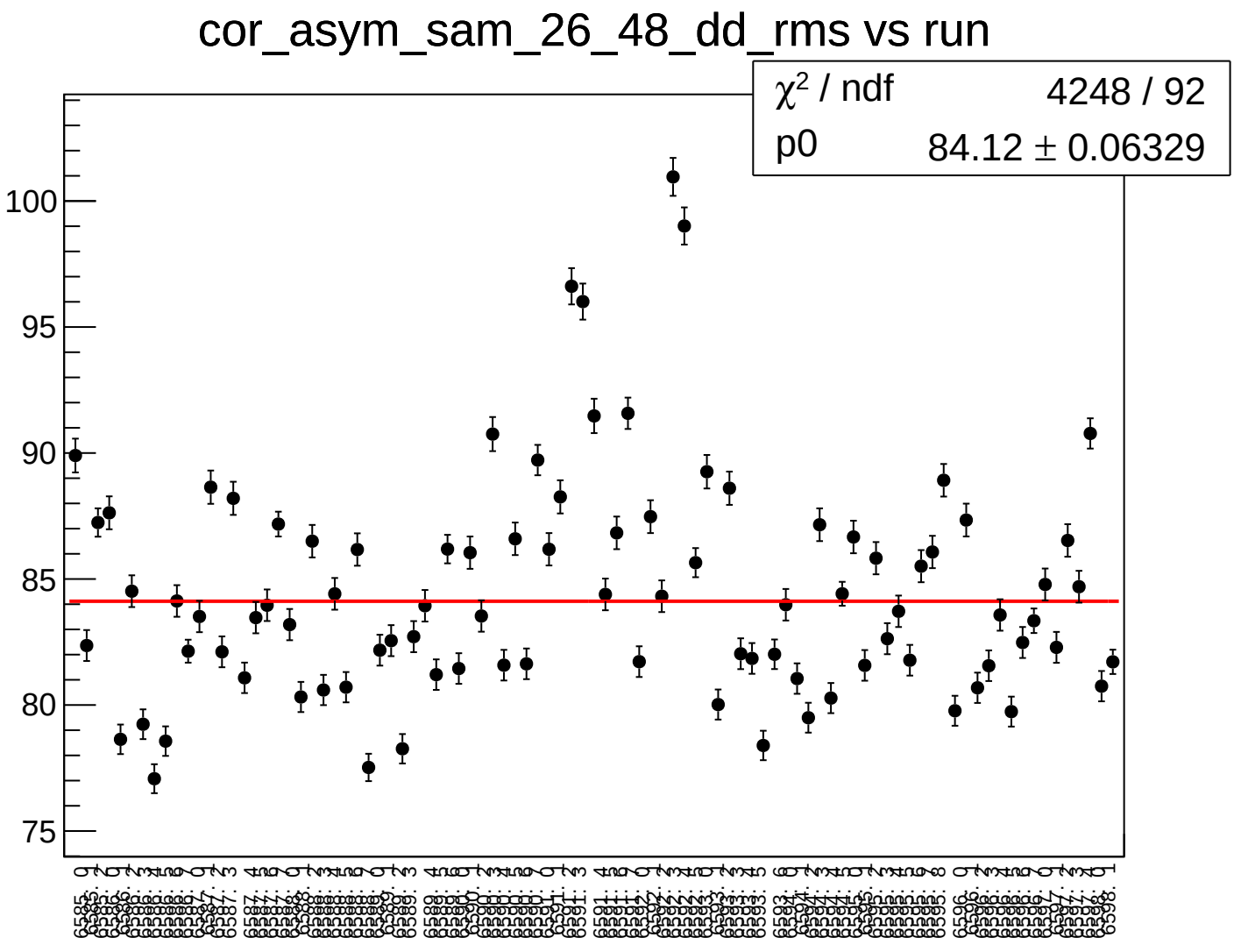

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.39 / 92
p0 −62.44 ± 89.51
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −694.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003912
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

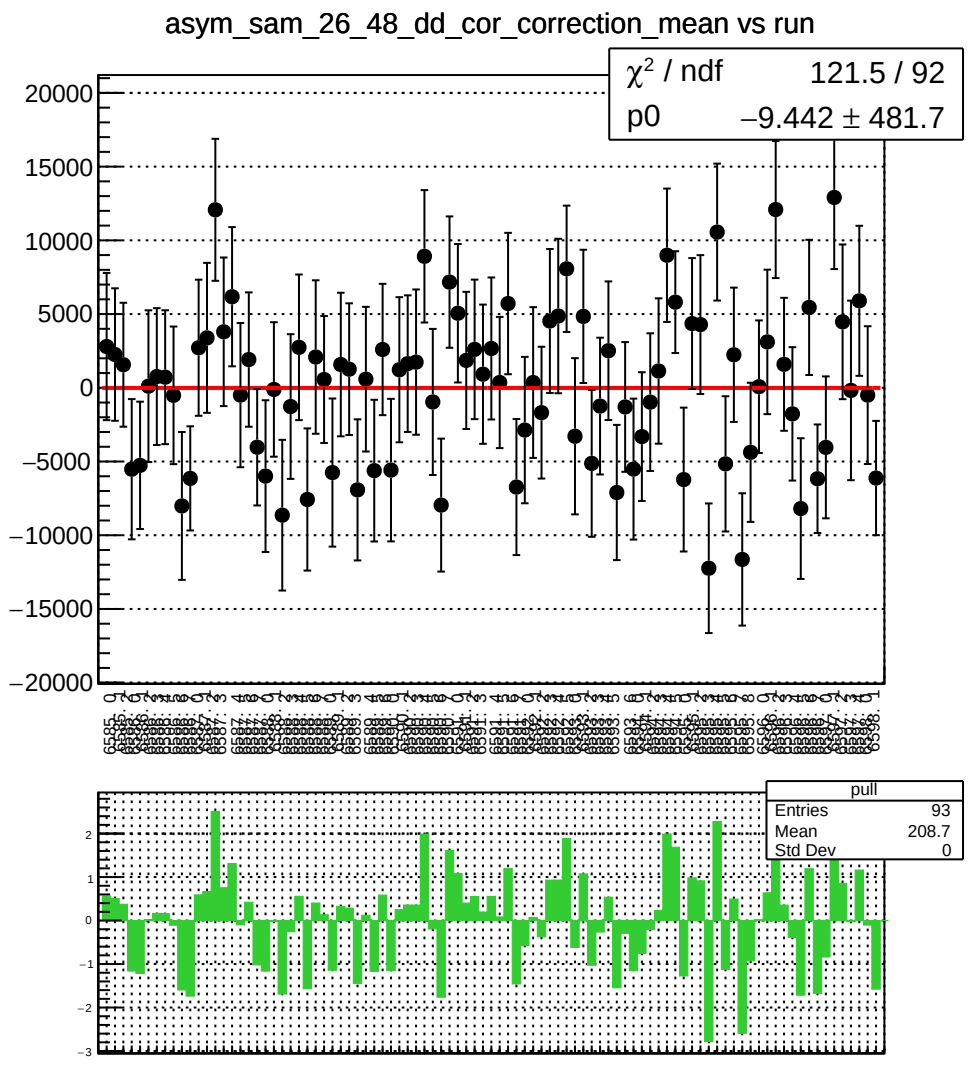

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4248 / 92
p0 84.12 ± 0.06329
100
95
90
85
80
75

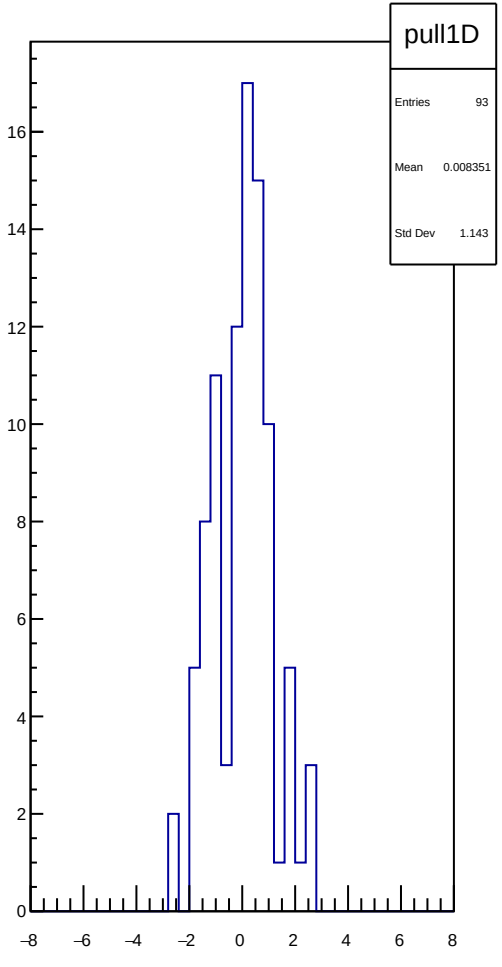

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 121.5 / 92
p0 −9.455 ± 481.7
pull
Entries 93
Mean 208.7
Std Dev 0
pull1D
Entries 93
Mean 0.008352
Std Dev 1.143

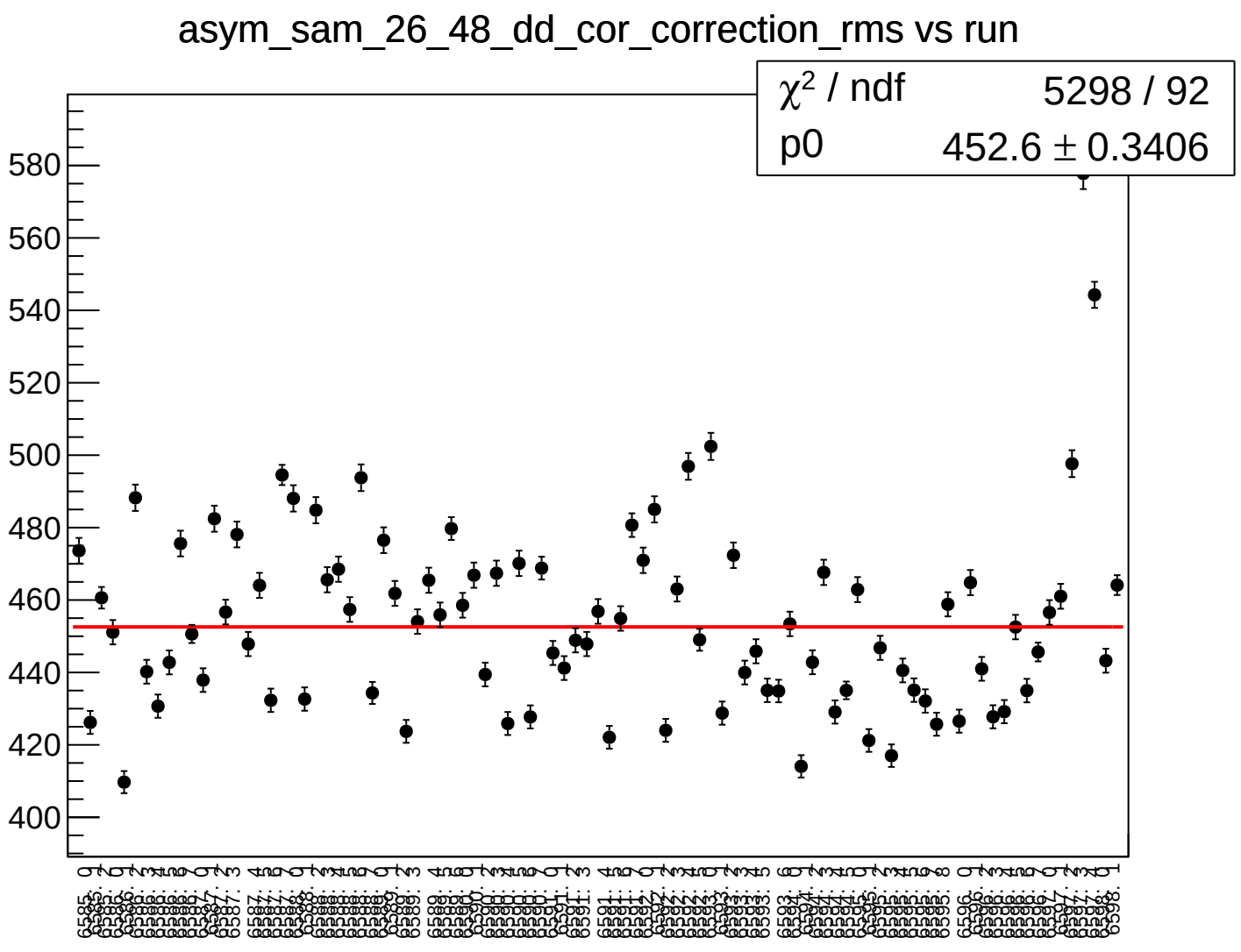

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 5298 / 92
p0 452.6 ± 0.3406
580
560
540
520
500
480
460
440
420
400

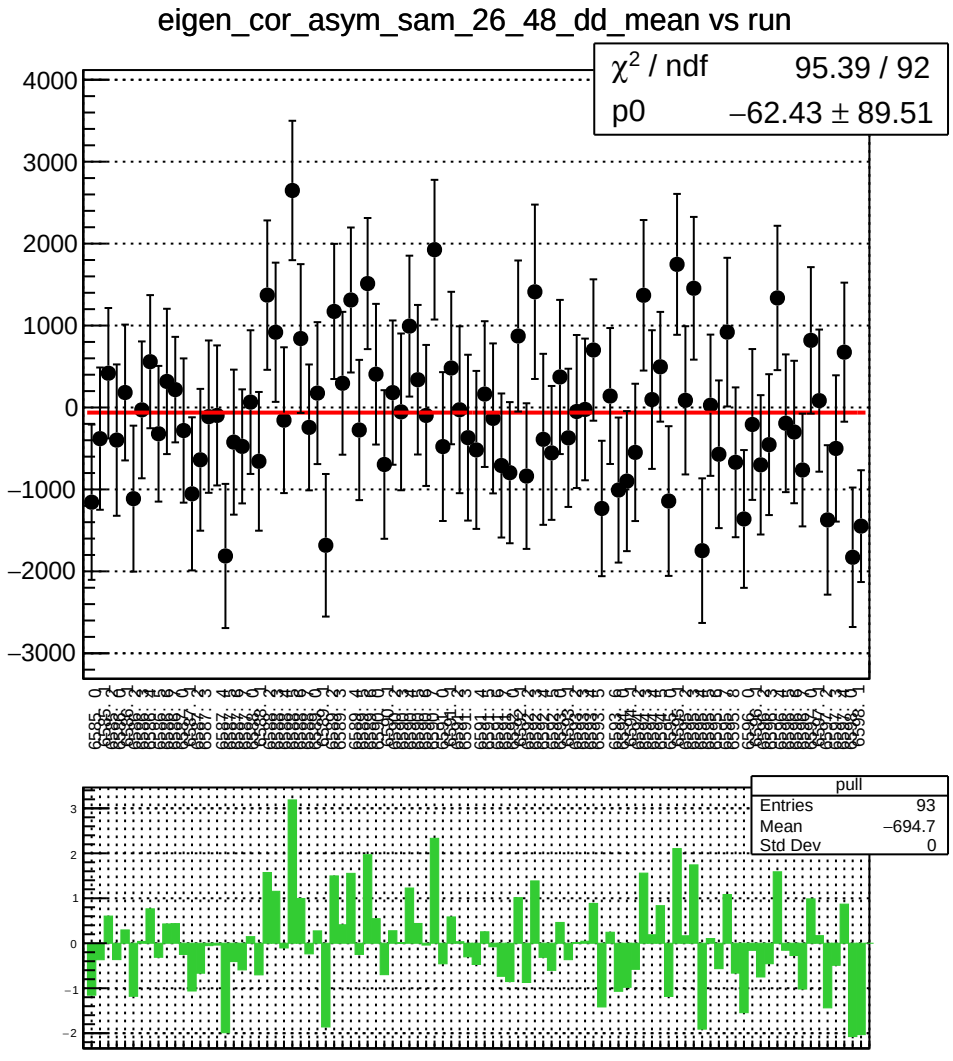

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.39 / 92
p0 −62.43 ± 89.51
pull
Entries 93
Mean −694.7
Std Dev 0
pull1D
Entries 93
Mean 0.003911
Std Dev 1.013

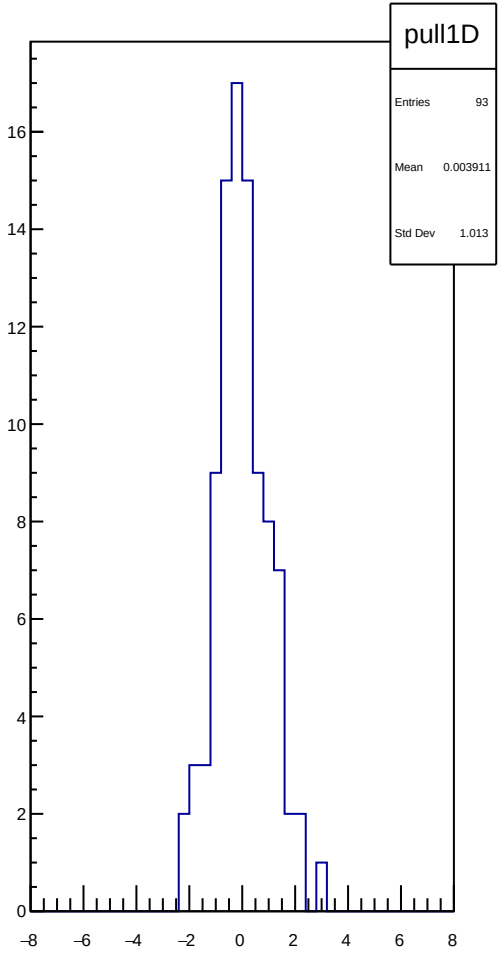

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4248 / 92
p0 84.12 ± 0.06329
100
95
90
85
80
75

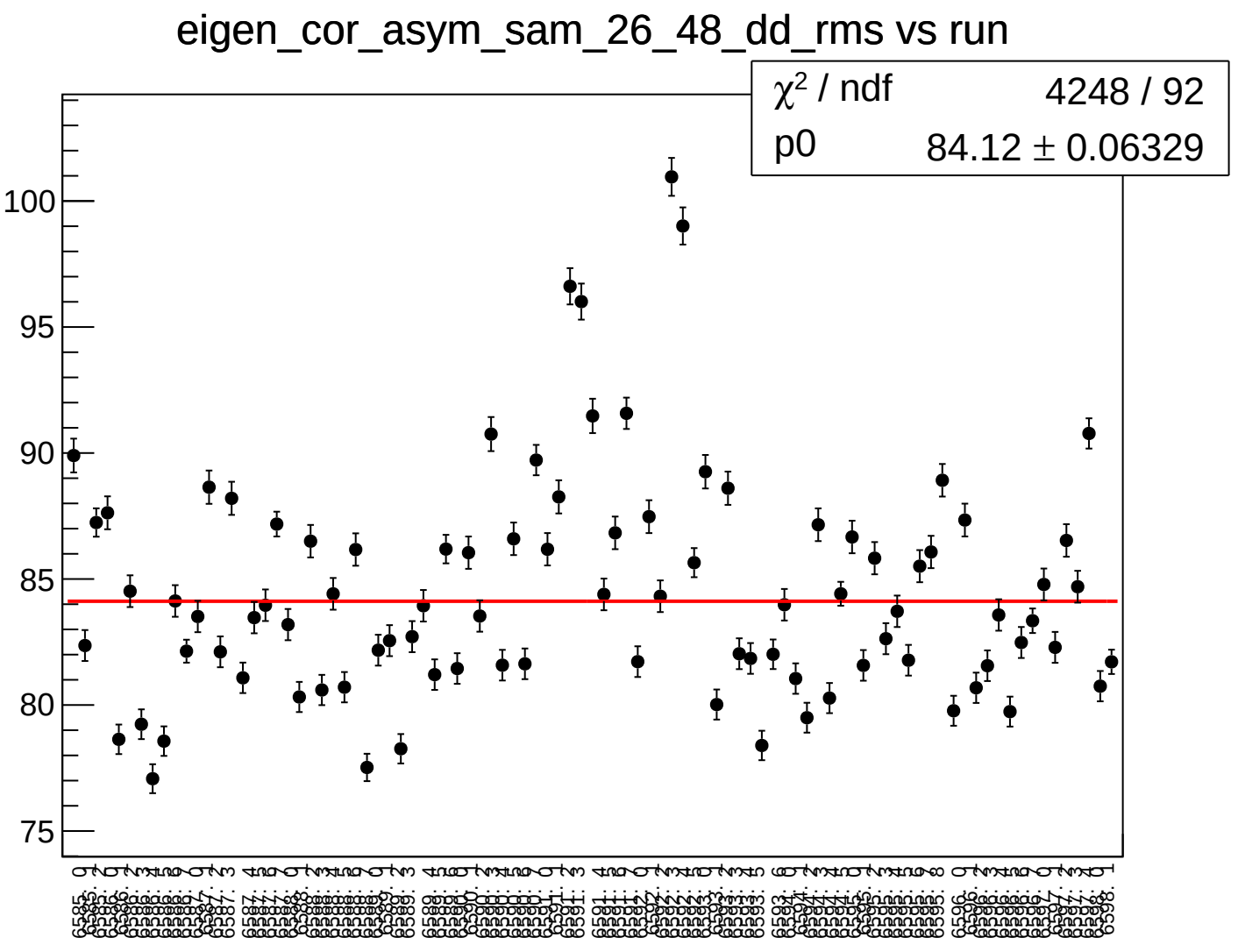

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 121.5 / 92
p0 −9.442 ± 481.7
pull
Entries 93
Mean 208.7
Std Dev 0

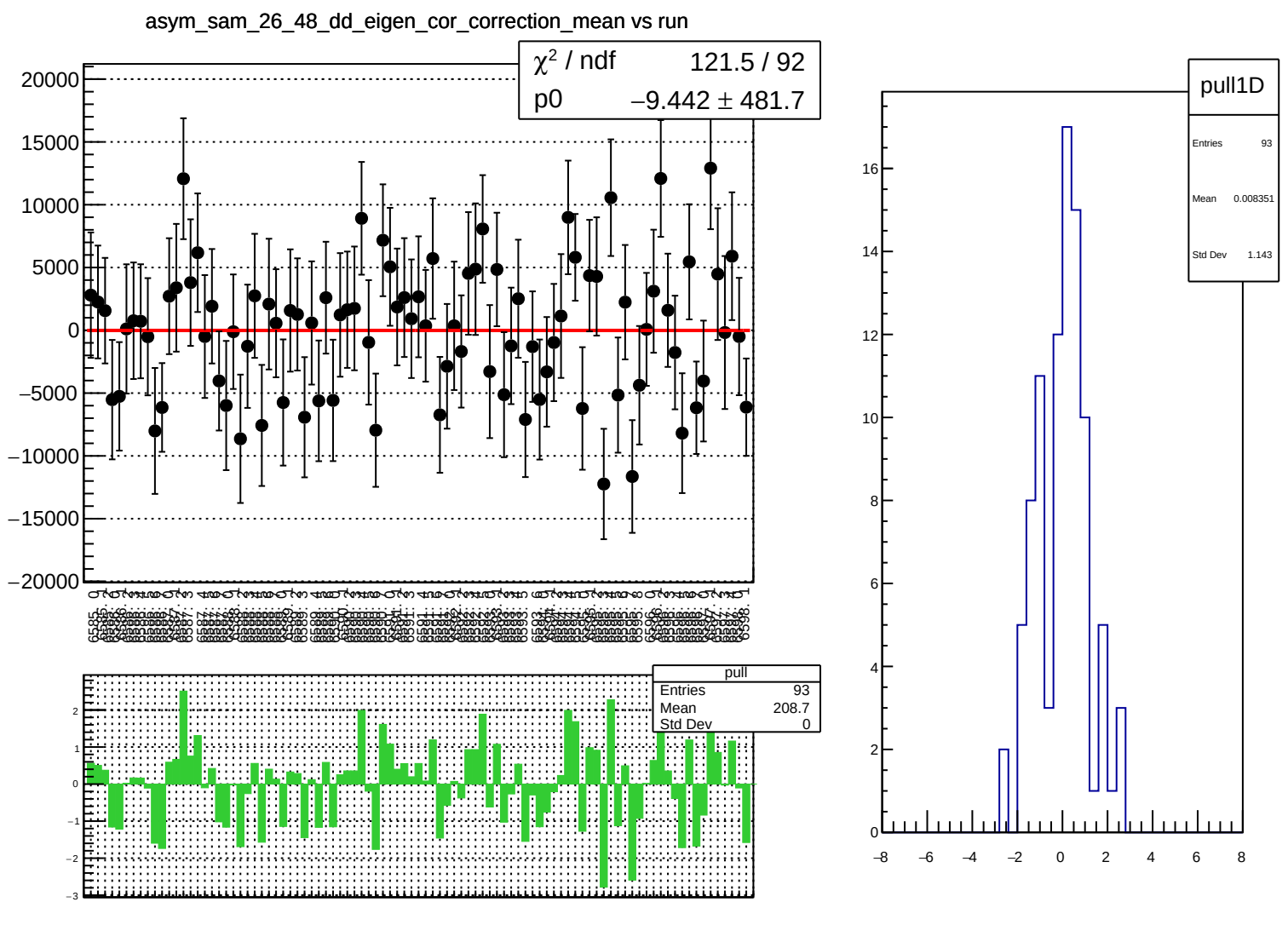

pull1D
Entries 93
Mean 0.008351
Std Dev 1.143

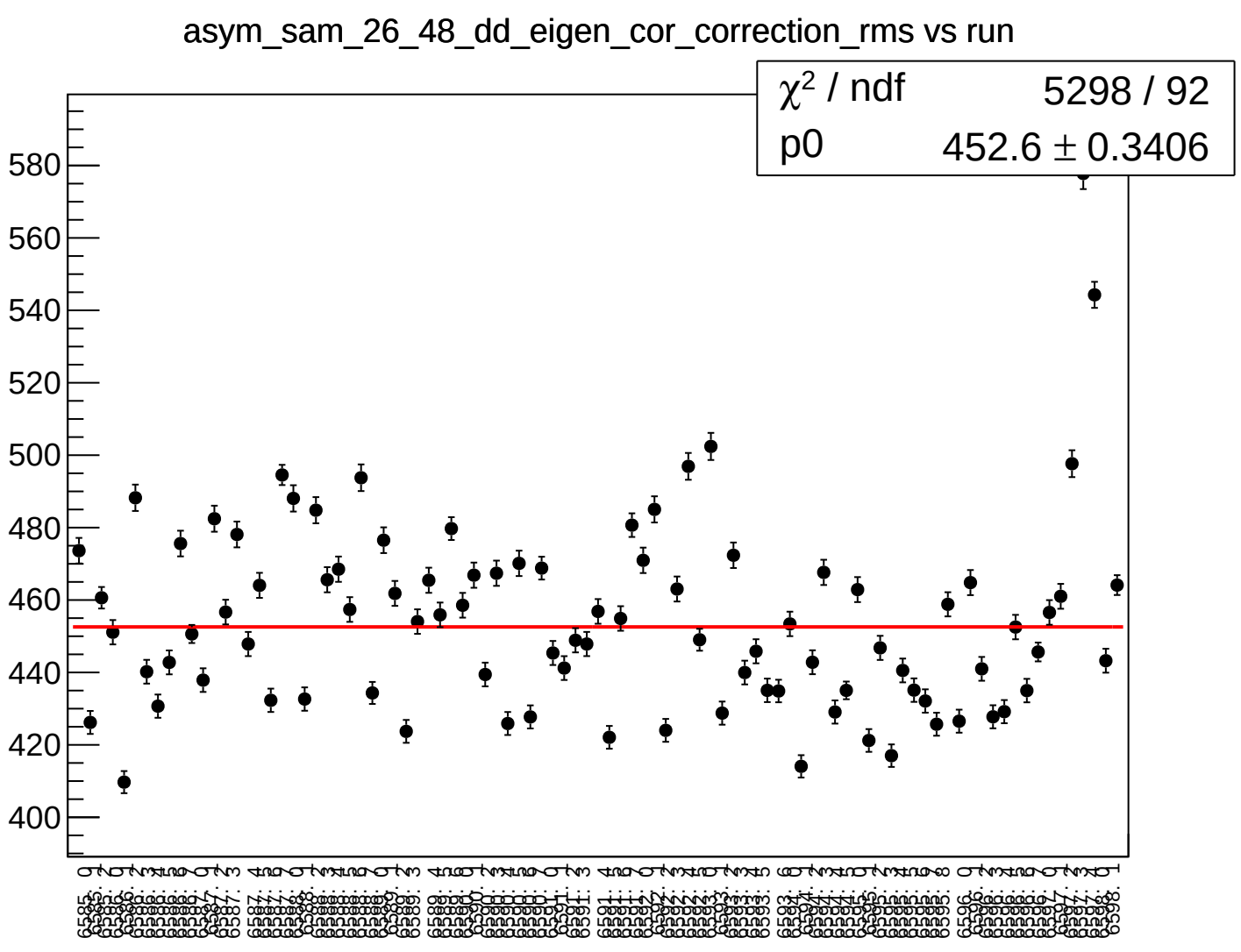

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 5298 / 92
p0 452.6 ± 0.3406
580
560
540
520
500
480
460
440
420
400

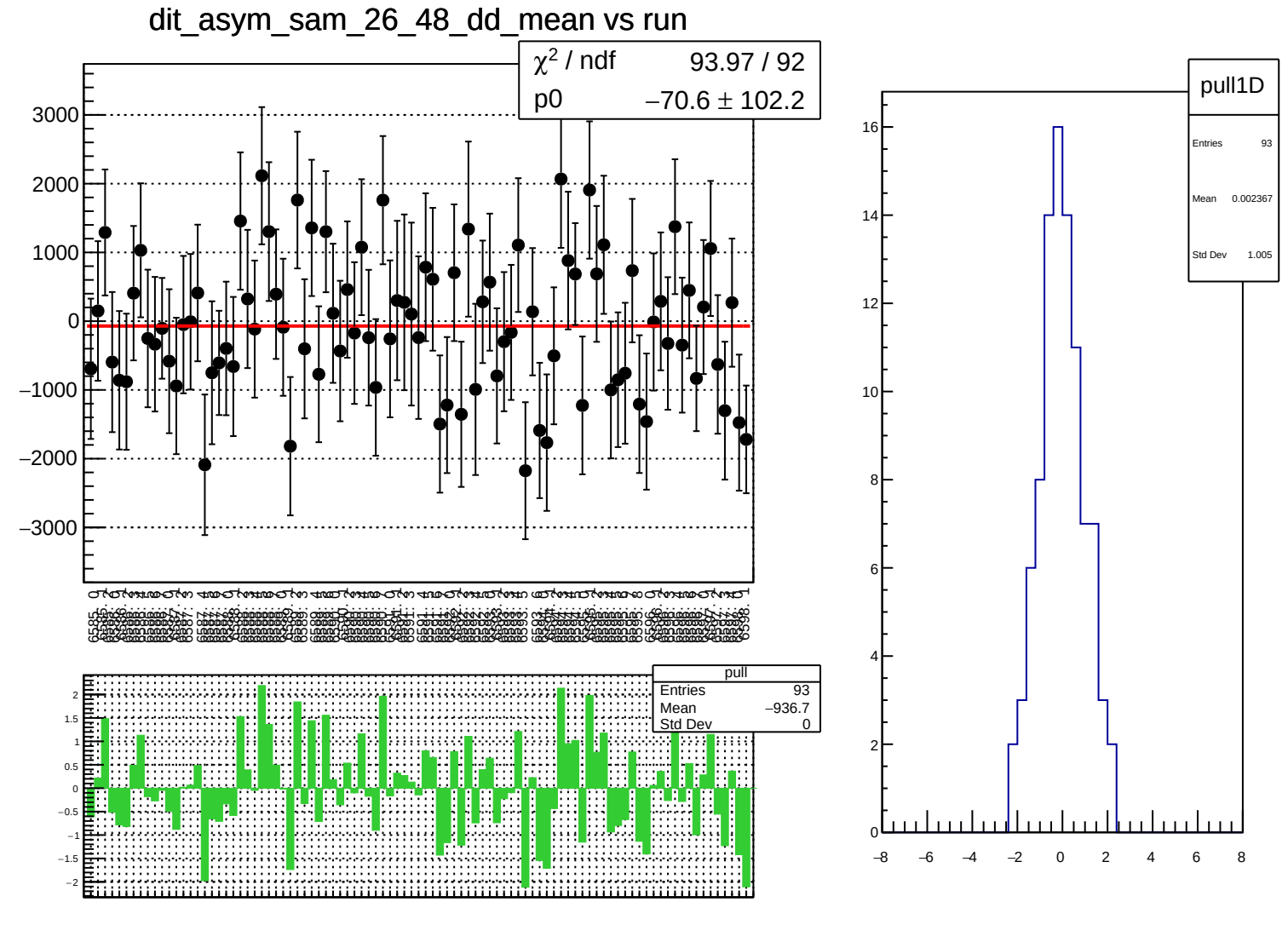

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 95.39 / 92
p0 −62.43 ± 89.51
pull
Entries 93
Mean −694.7
Std Dev 0

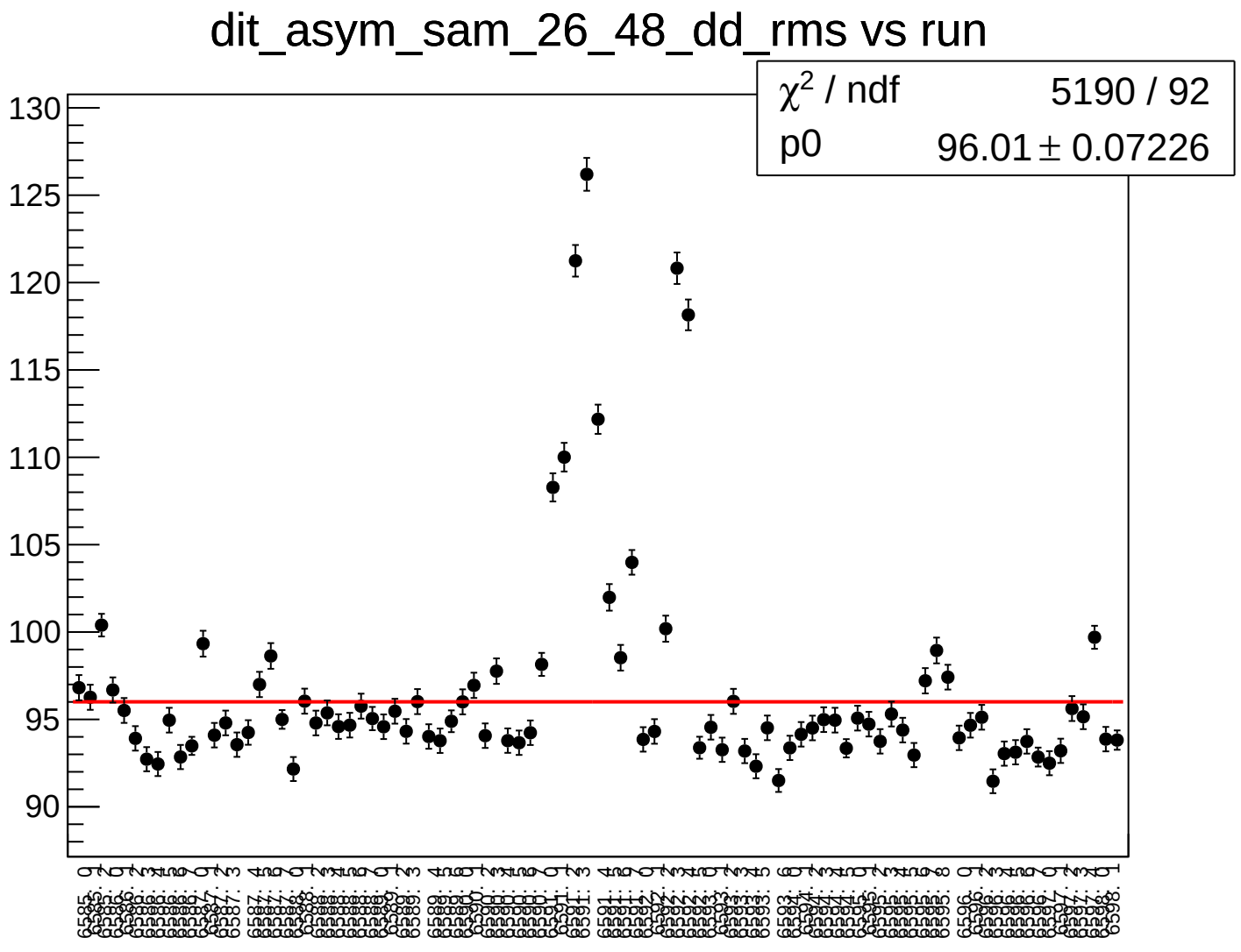

pull1D
Entries 93
Mean 0.003911
Std Dev 1.013

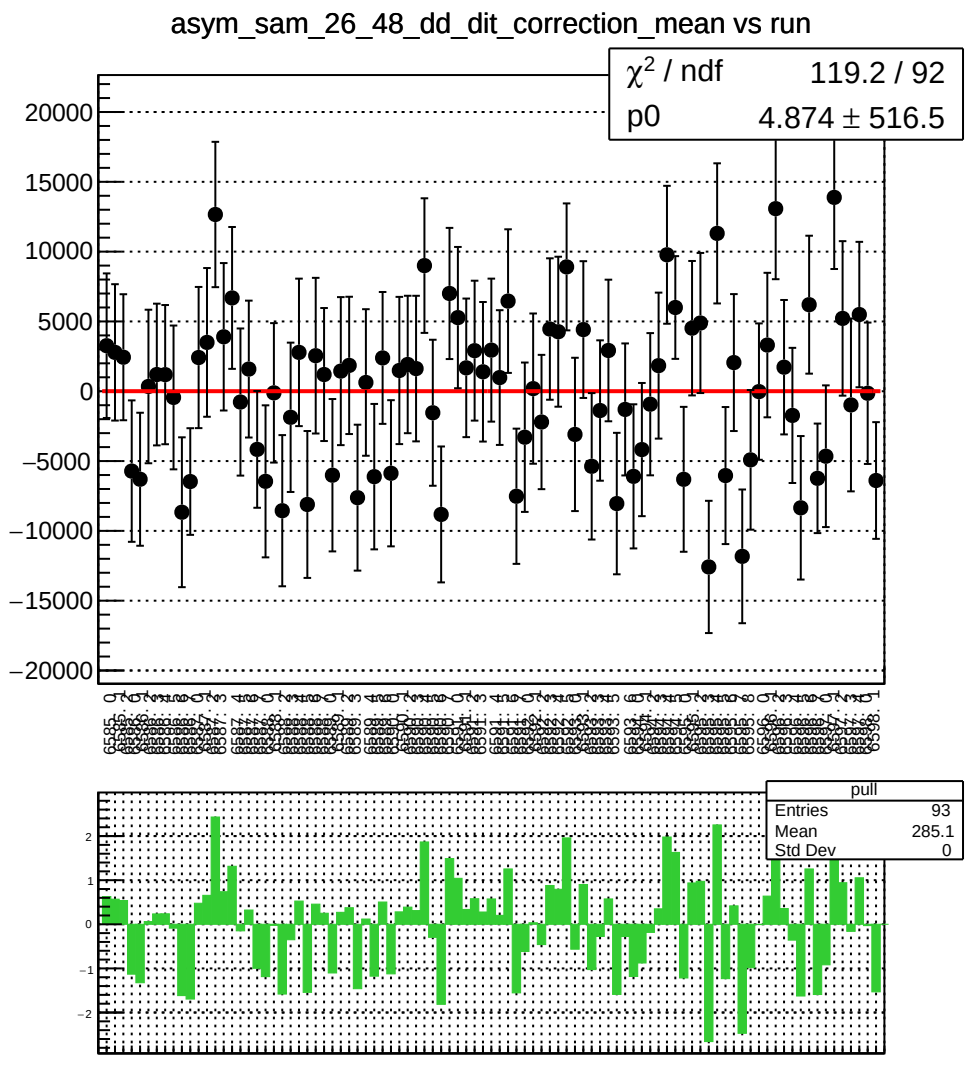

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4248 / 92
p0 84.12 ± 0.06329
100
95
90
85
80
75

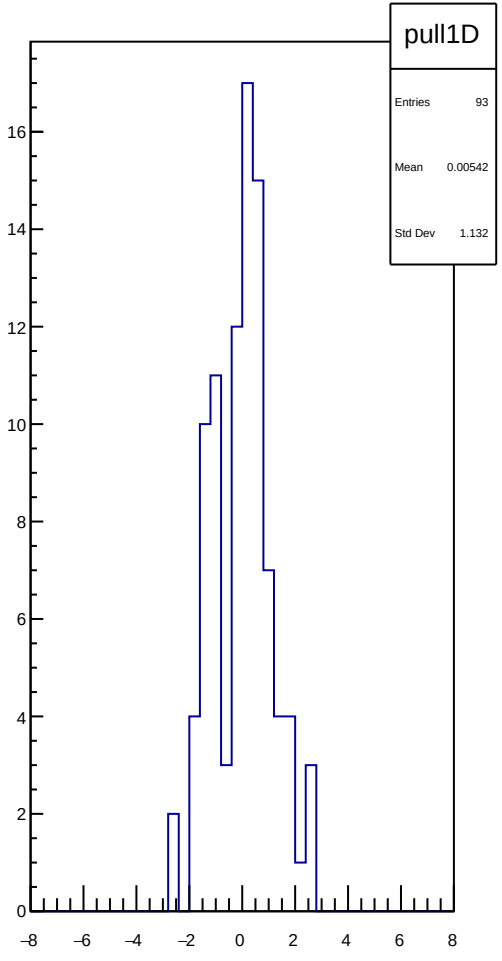

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 121.5 / 92
p0 −9.442 ± 481.7
pull
Entries 93
Mean 208.7
Std Dev 0
pull1D
Entries 93
Mean 0.008351
Std Dev 1.143

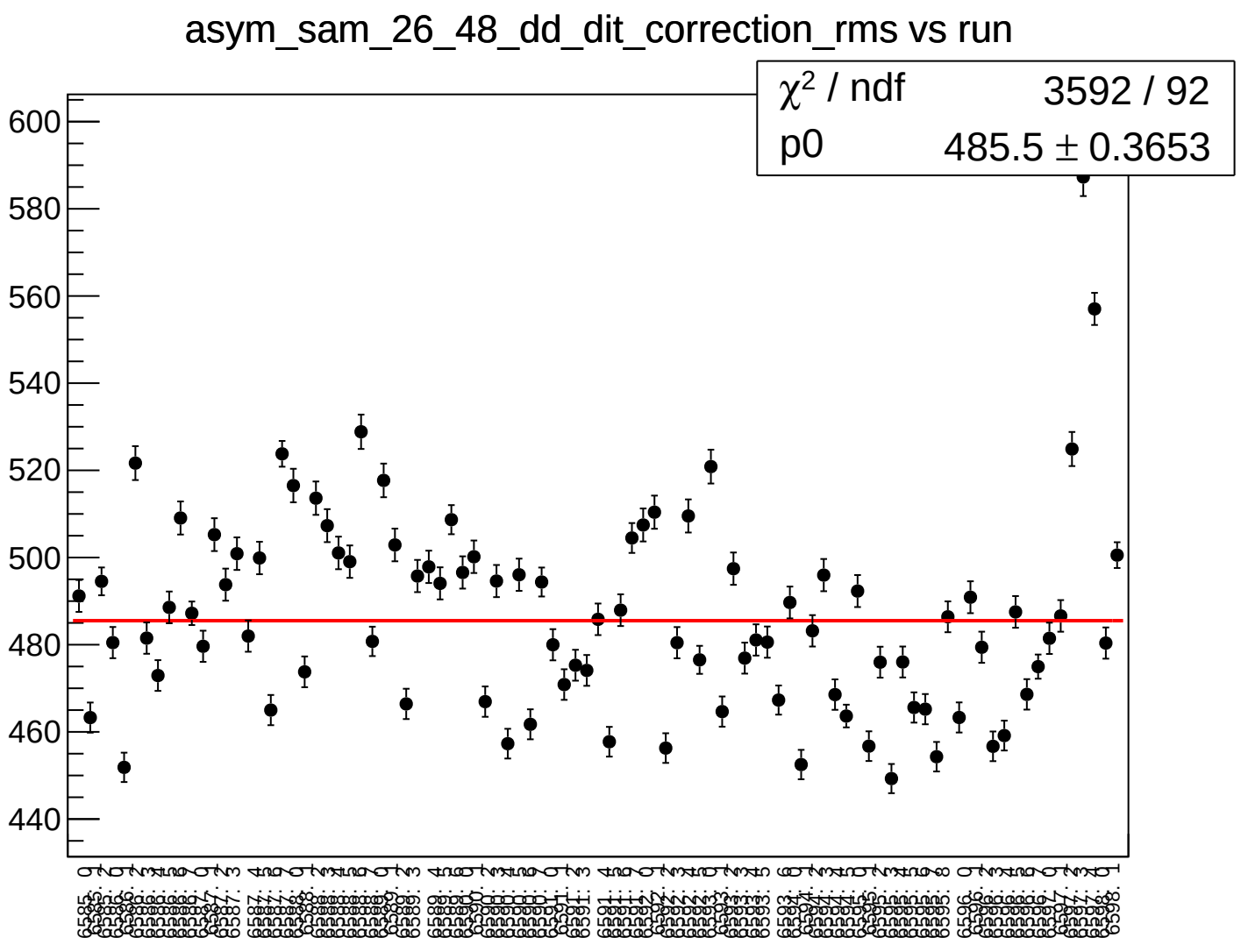

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5298 / 92
p0 452.6 ± 0.3406
580
560
540
520
500
480
460
440
420
400

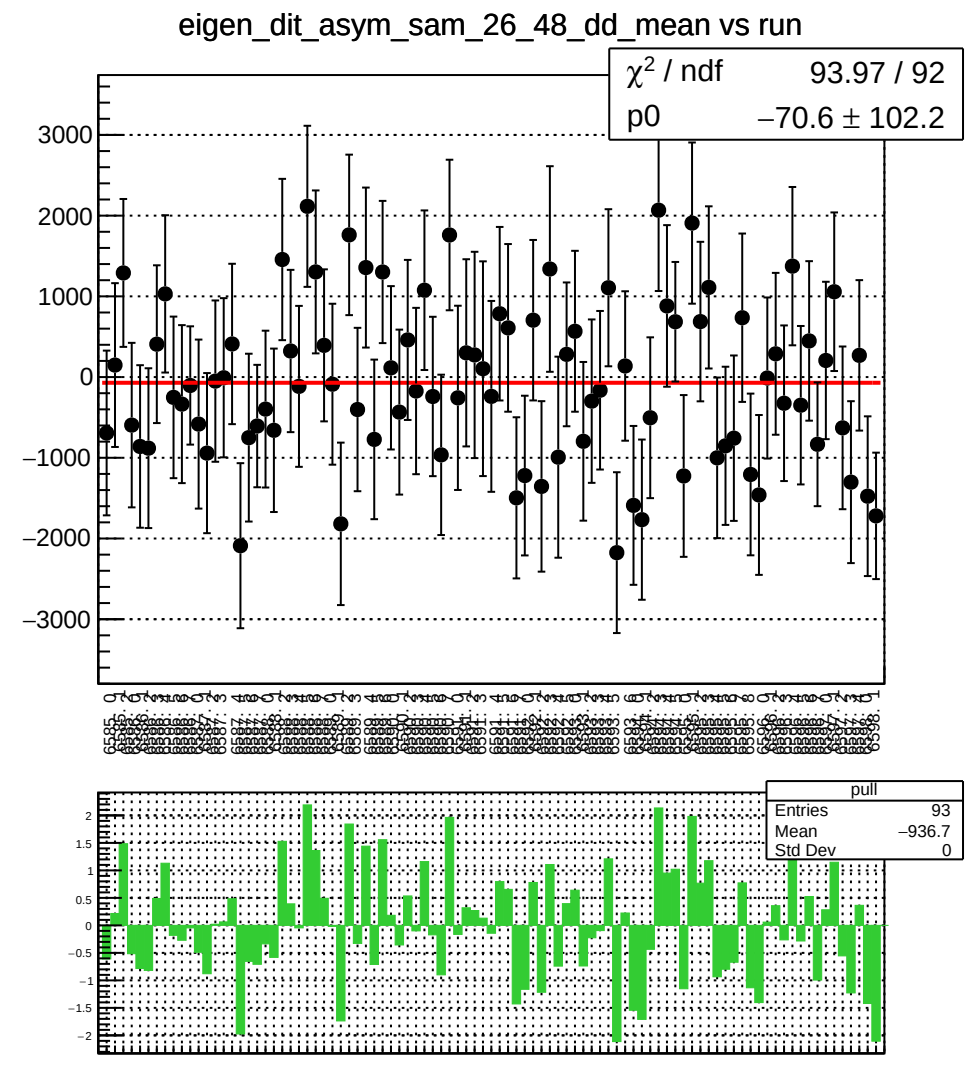

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 93.97 / 92
p0 −70.6 ± 102.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −936.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.002367
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

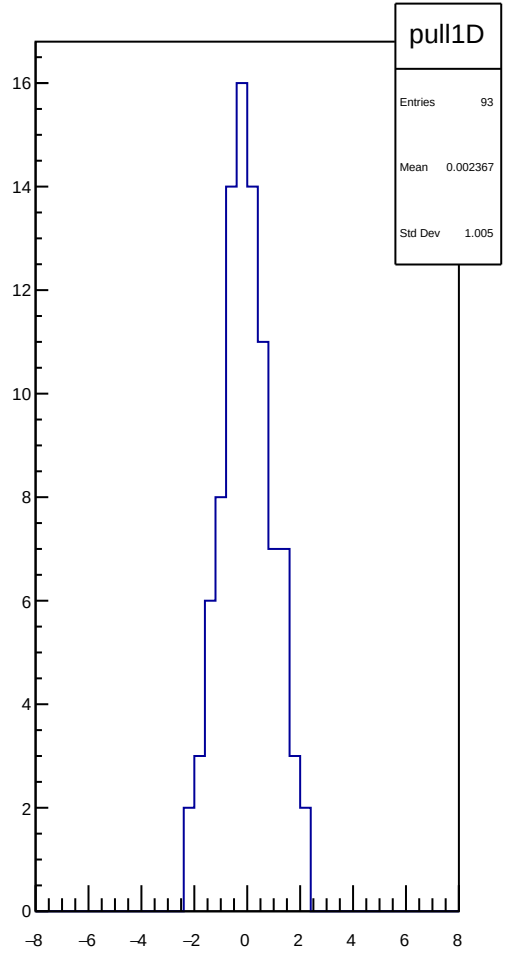

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5190 / 92
p0 96.01 ± 0.07226
130
125
120
115
110
105
100
95
90

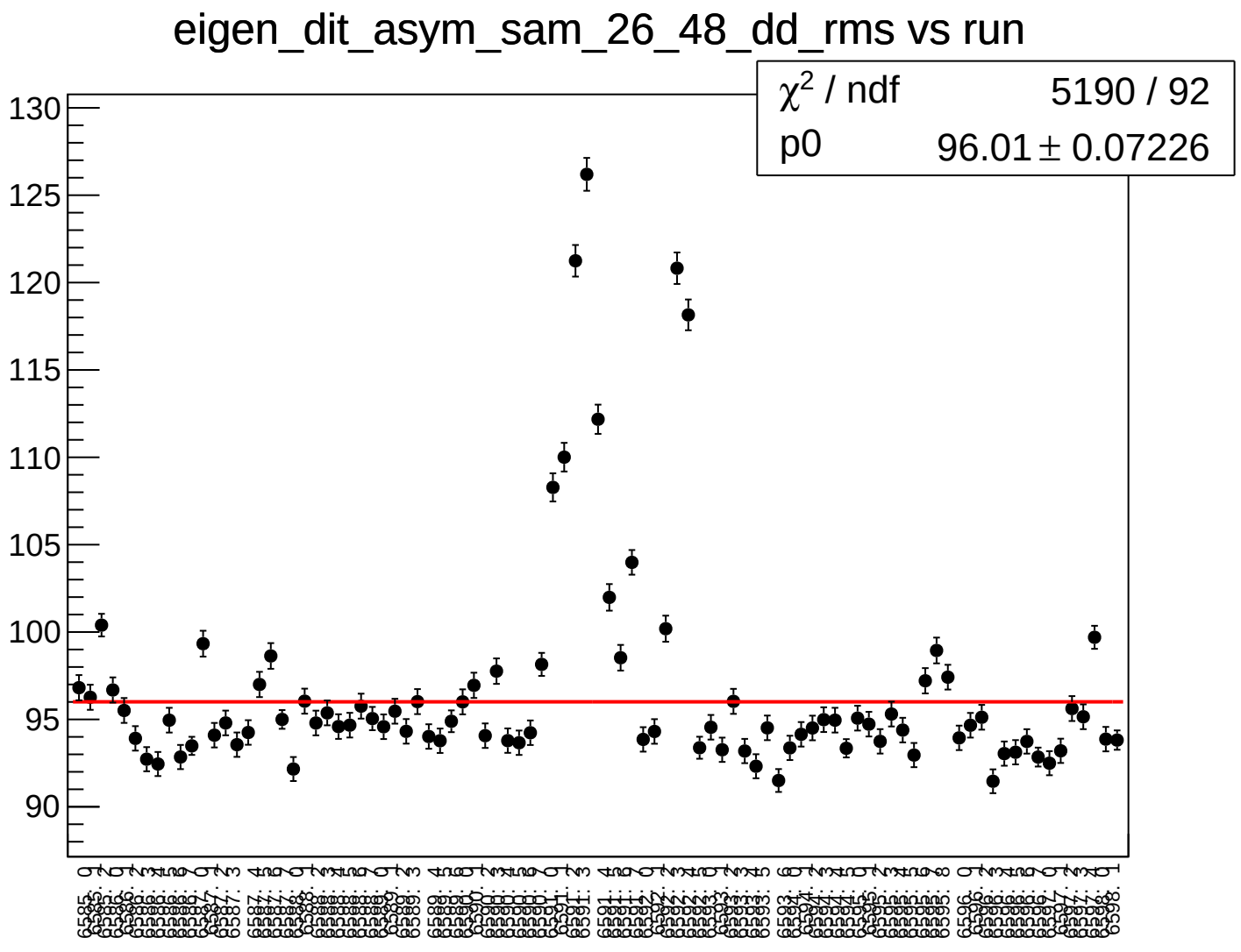

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 119.2 / 92
p0 4.874 ± 516.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 285.1
Std Dev 0
2
1
0
−1
−2

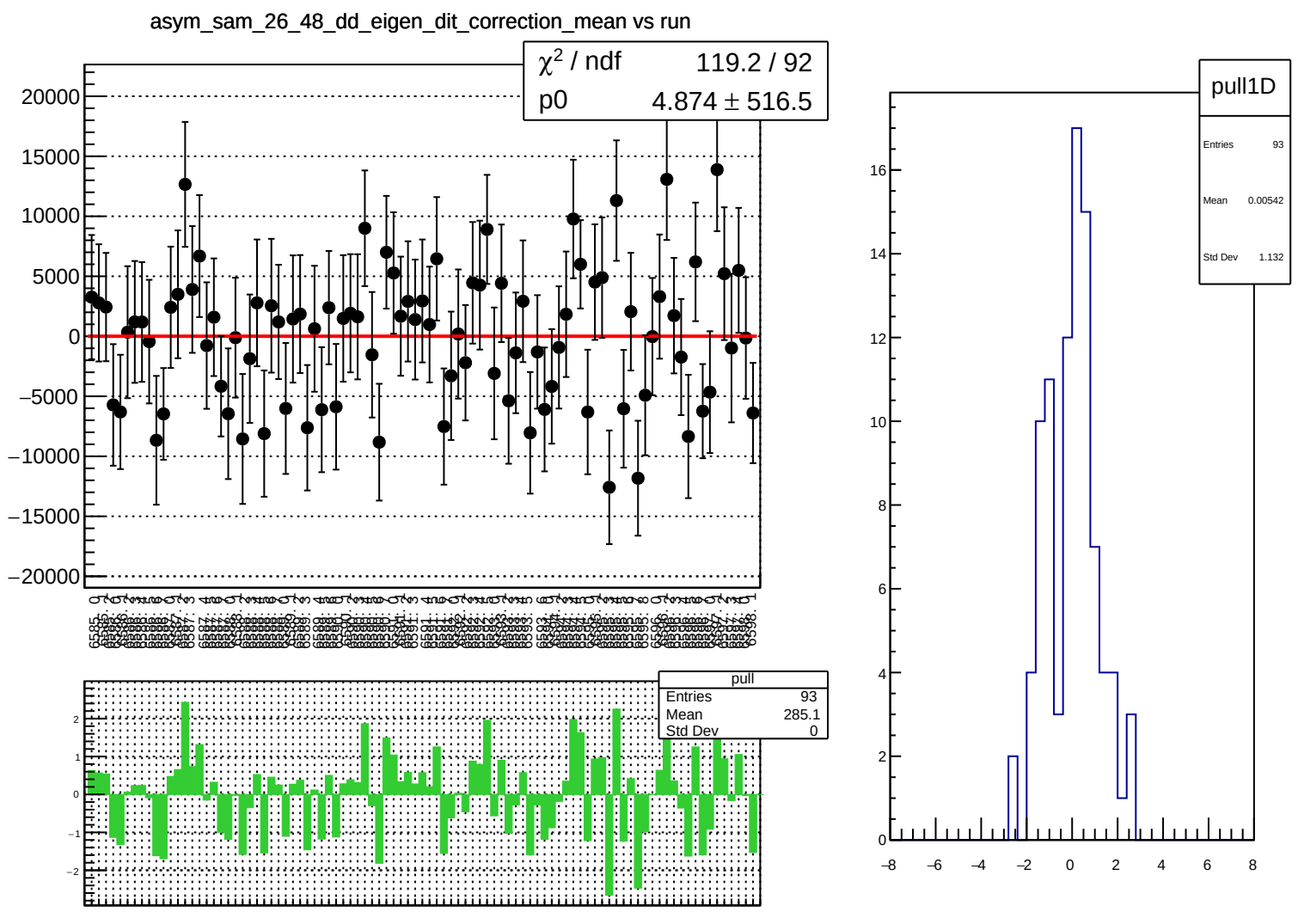

pull1D
Entries 93
Mean 0.00542
Std Dev 1.132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

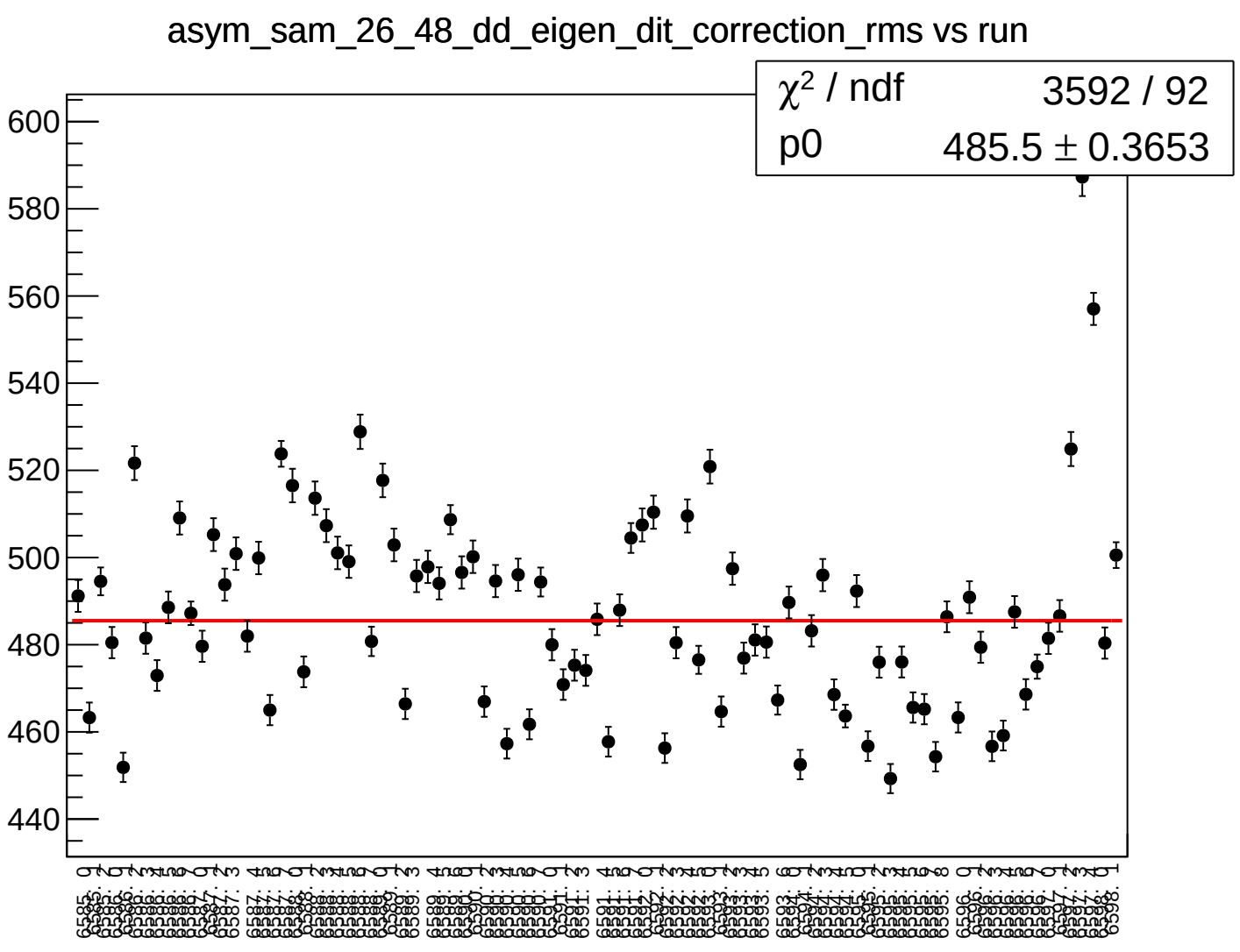

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 3592 / 92
p0 485.5 ± 0.3653
600
580
560
540
520
500
480
460
440

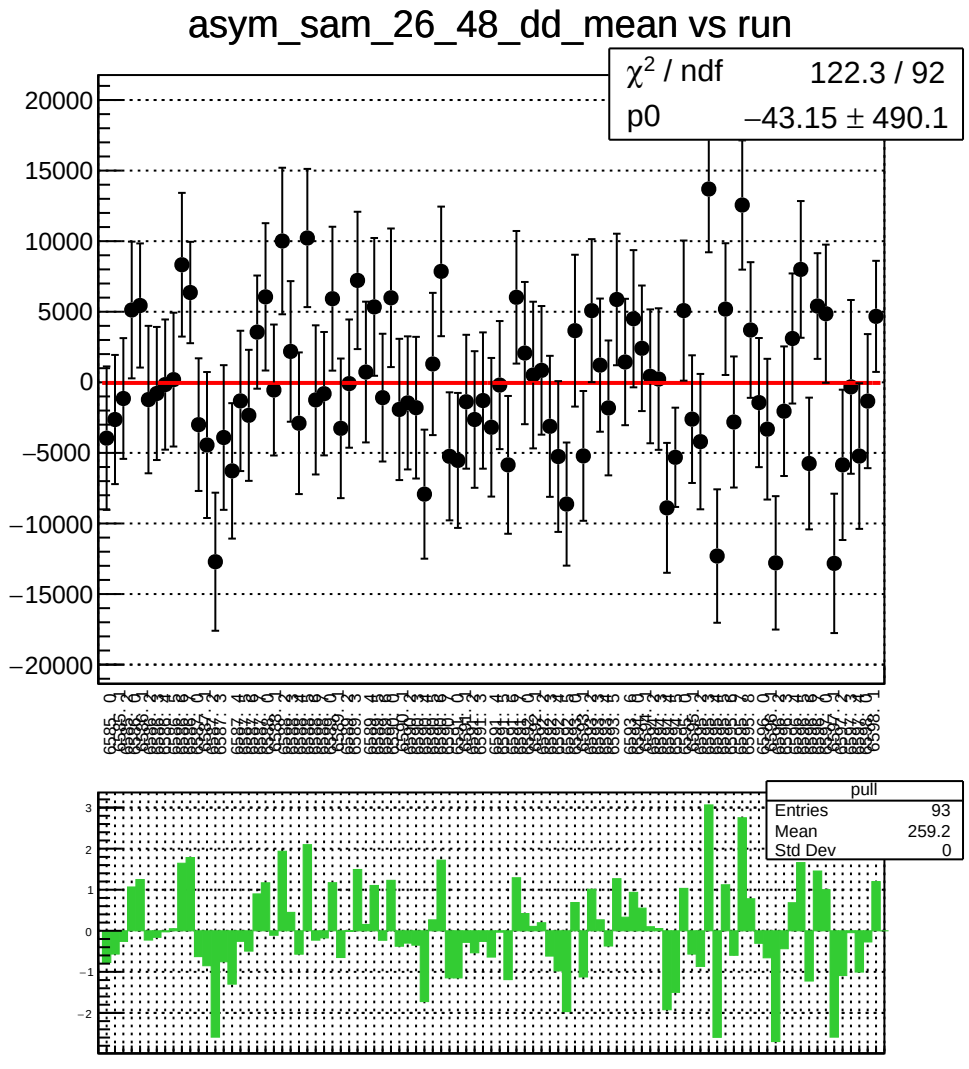

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 93.97 / 92
p0 −70.6 ± 102.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −936.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

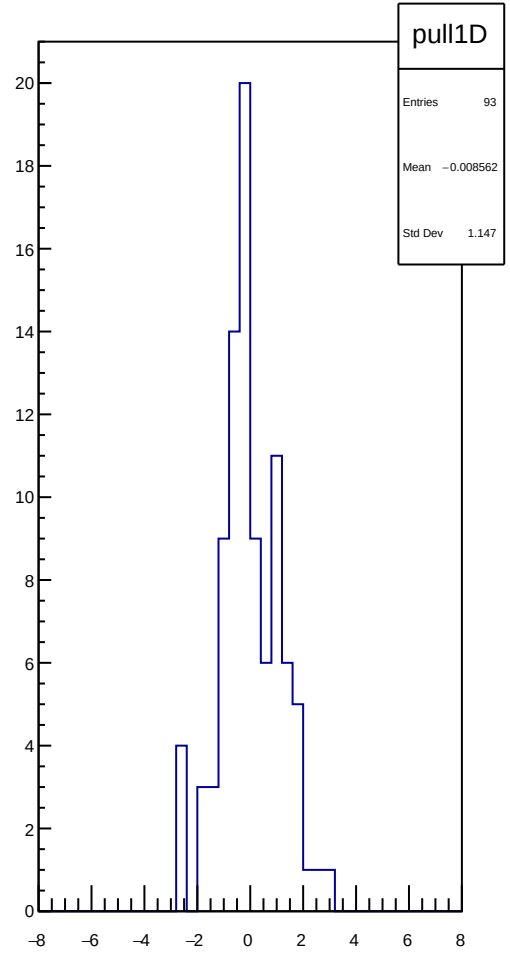

pull1D
Entries 93
Mean 0.002367
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

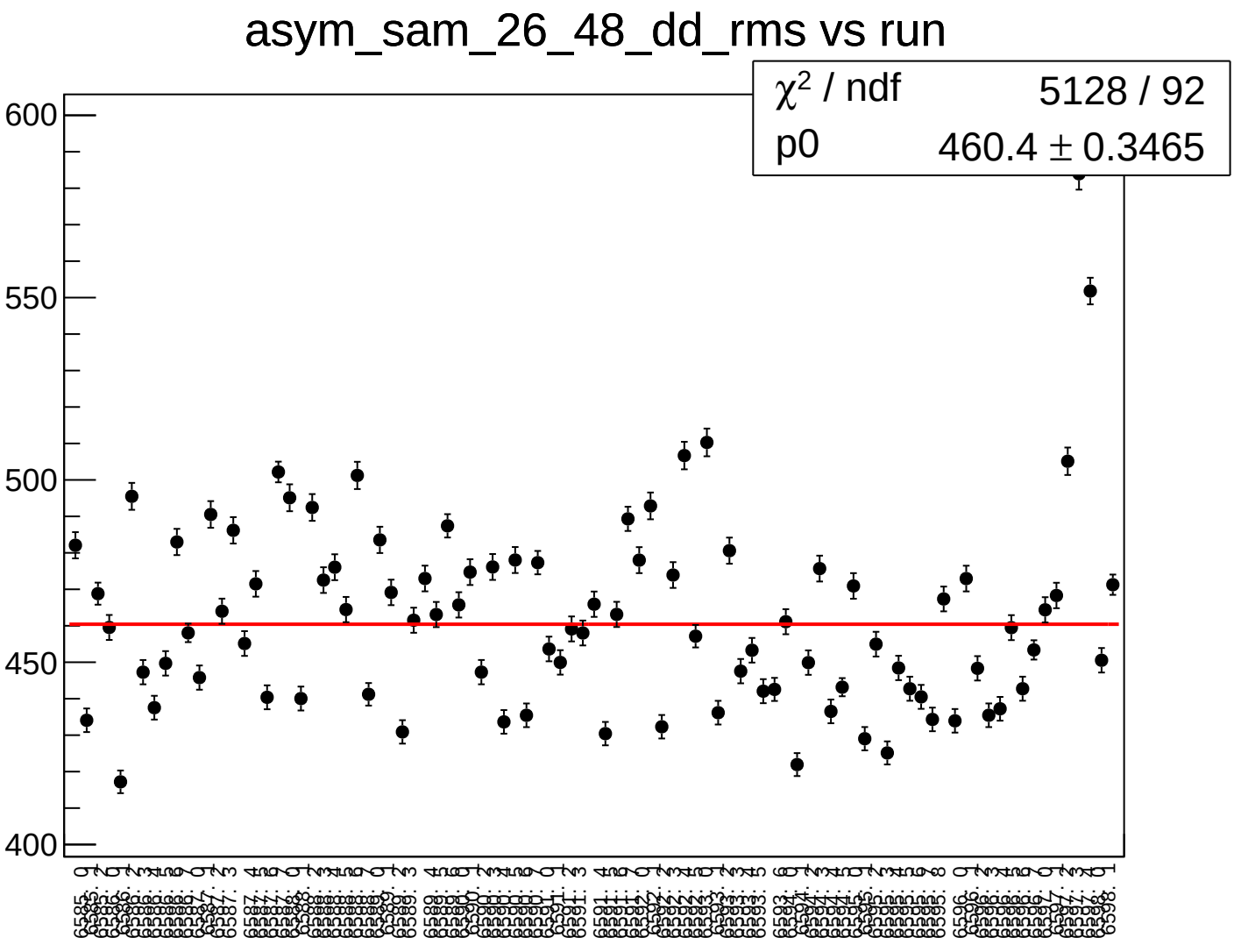

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5190 / 92
p0 96.01 ± 0.07226
130
125
120
115
110
105
100
95
90

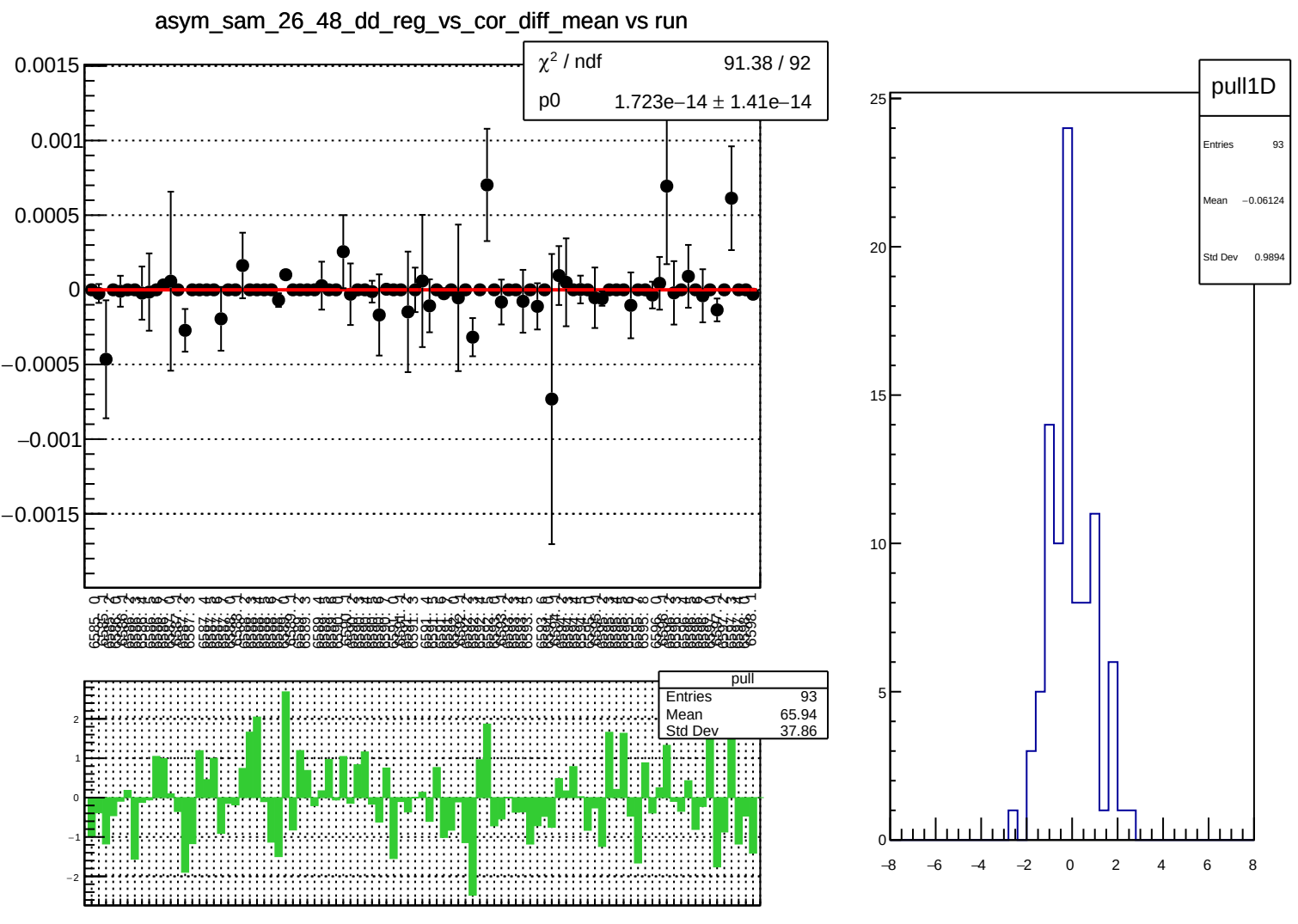

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 119.2 / 92
p0 4.874 ± 516.5
pull
Entries 93
Mean 285.1
Std Dev 0
pull1D
Entries 93
Mean 0.00542
Std Dev 1.132

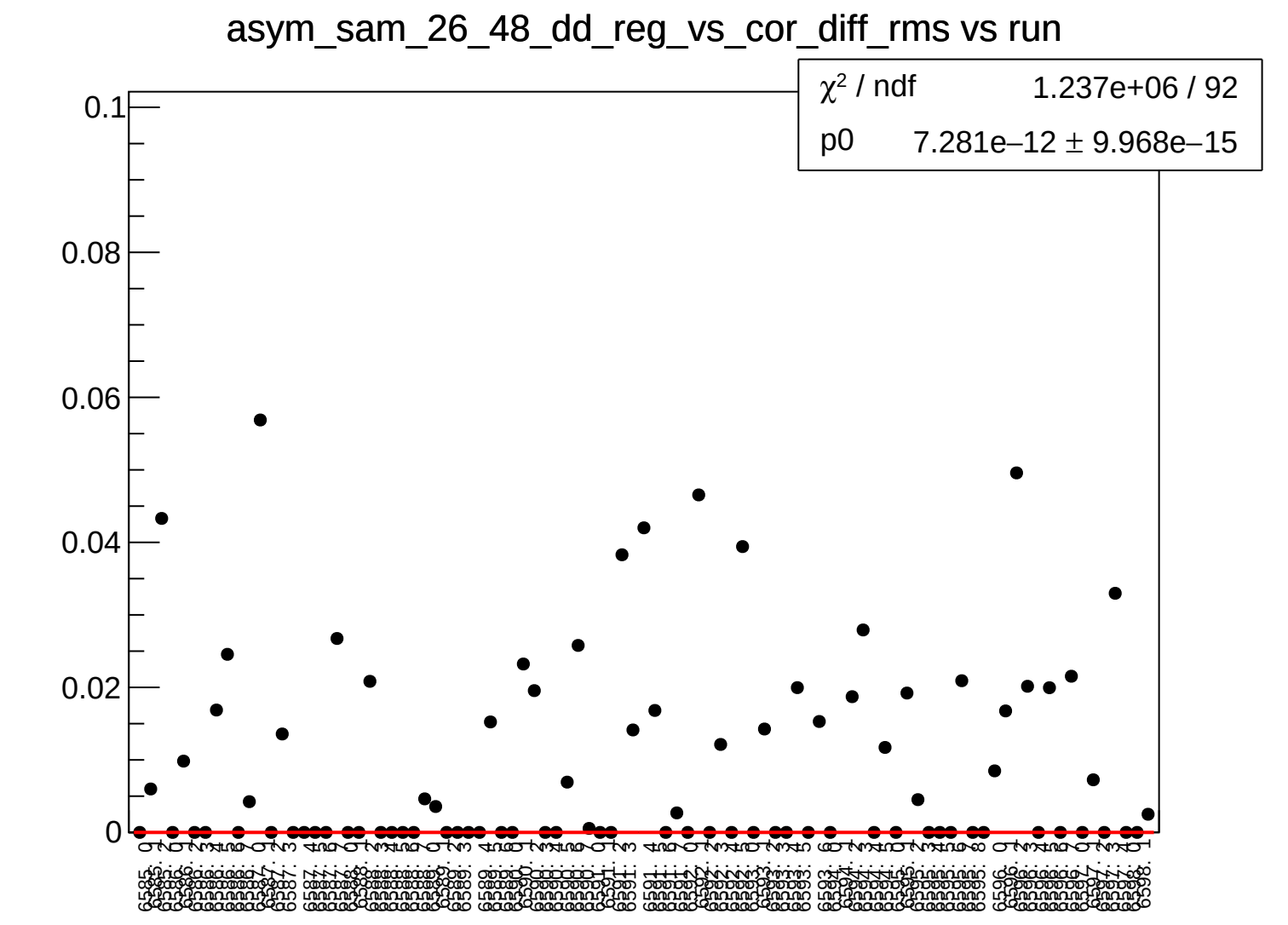

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3592 / 92
p0 485.5 ± 0.3653
600
580
560
540
520
500
480
460
440

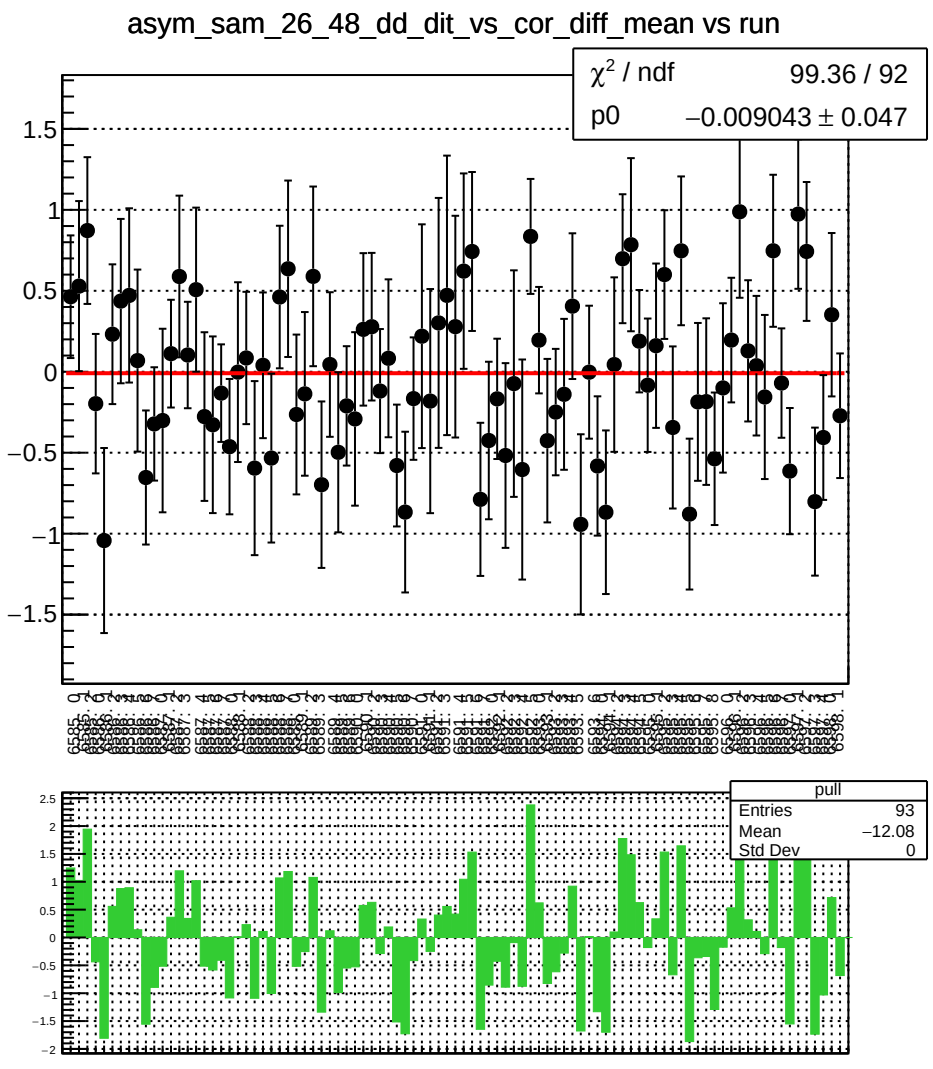

asym_sam_26_48_dd_mean vs run
χ² / ndf 122.3 / 92
p0 −43.15 ± 490.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 259.2
Std Dev 0
3
2
1
0
−1
−2

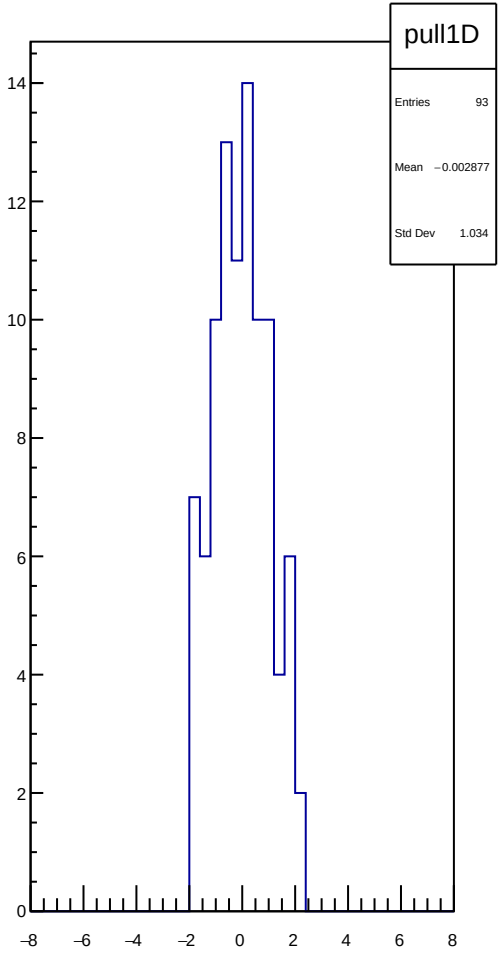

pull1D
Entries 93
Mean −0.008562
Std Dev 1.147
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

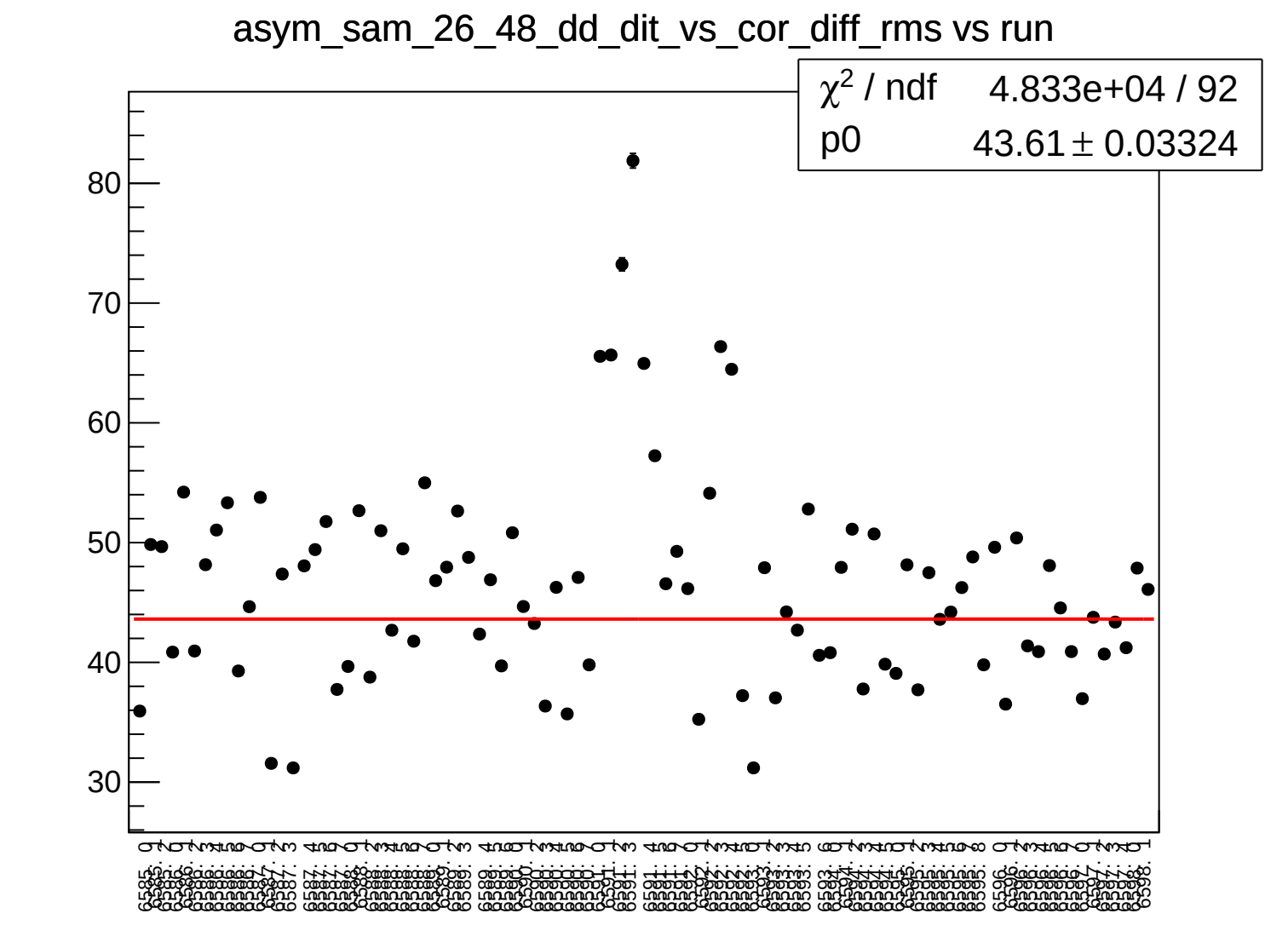

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 5128 / 92
p0 460.4 ± 0.3465
600
550
500
450
400

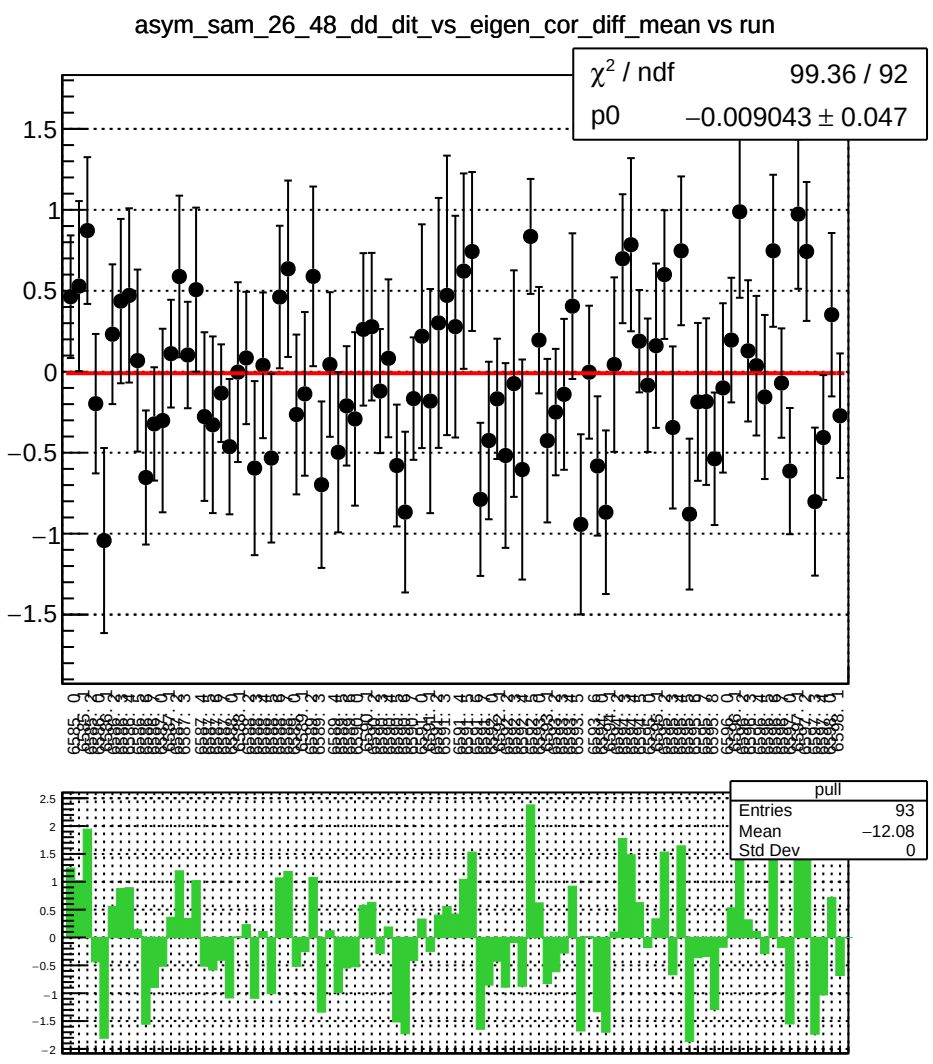

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.38 / 92
p0 1.723e−14 ± 1.41e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 65.94
Std Dev 37.86
pull1D
Entries 93
Mean −0.06124
Std Dev 0.9894
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

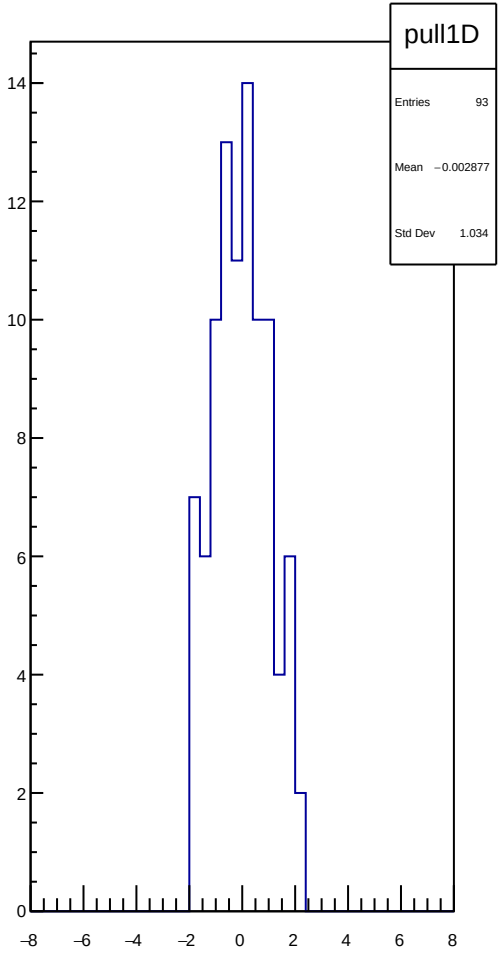

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.237e+06 / 92
p0 7.281e−12 ± 9.968e−15
0.1
0.08
0.06
0.04
0.02
0

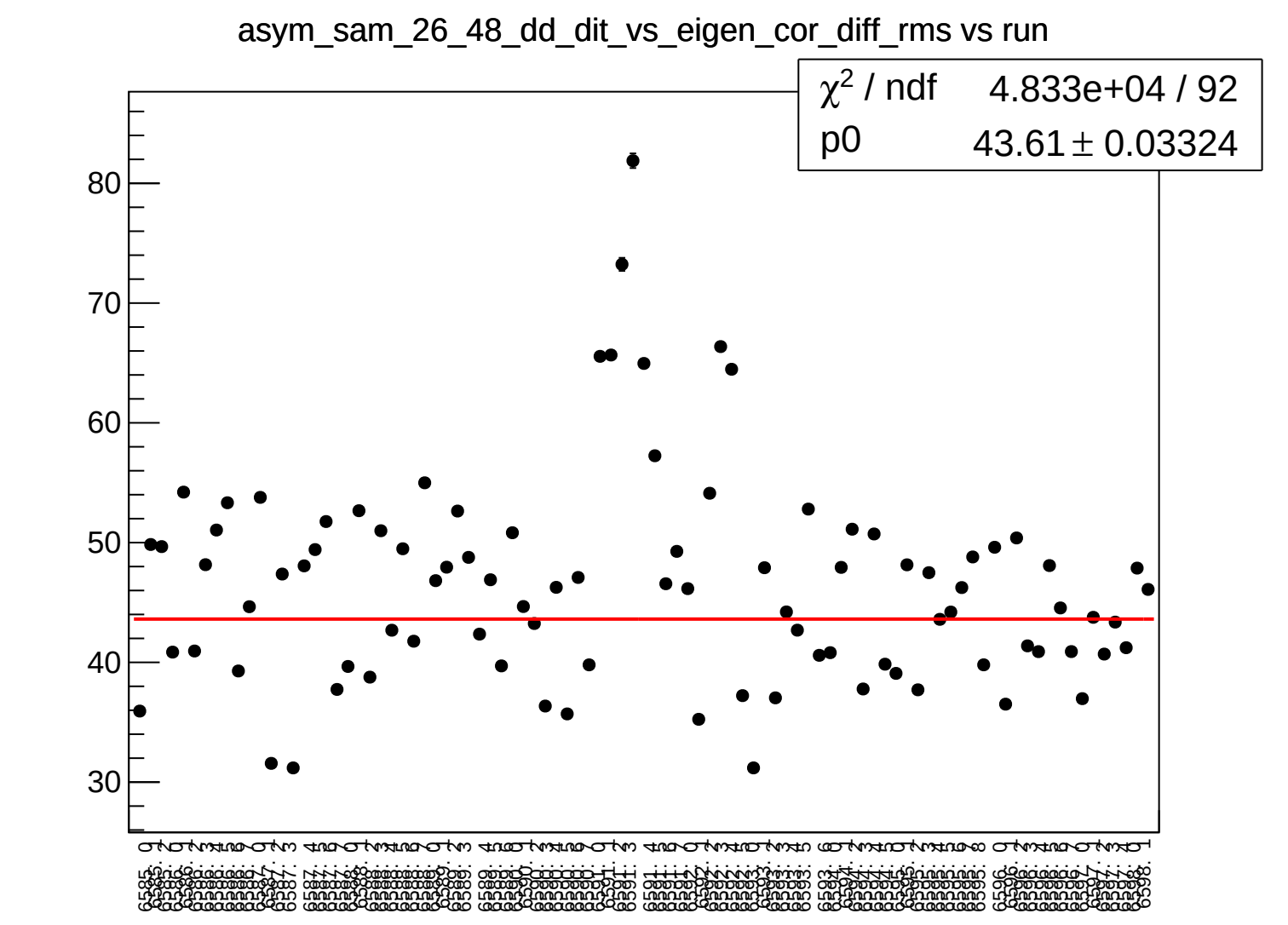

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.36 / 92
p0 −0.009043 ± 0.047
pull
Entries 93
Mean −12.08
Std Dev 0

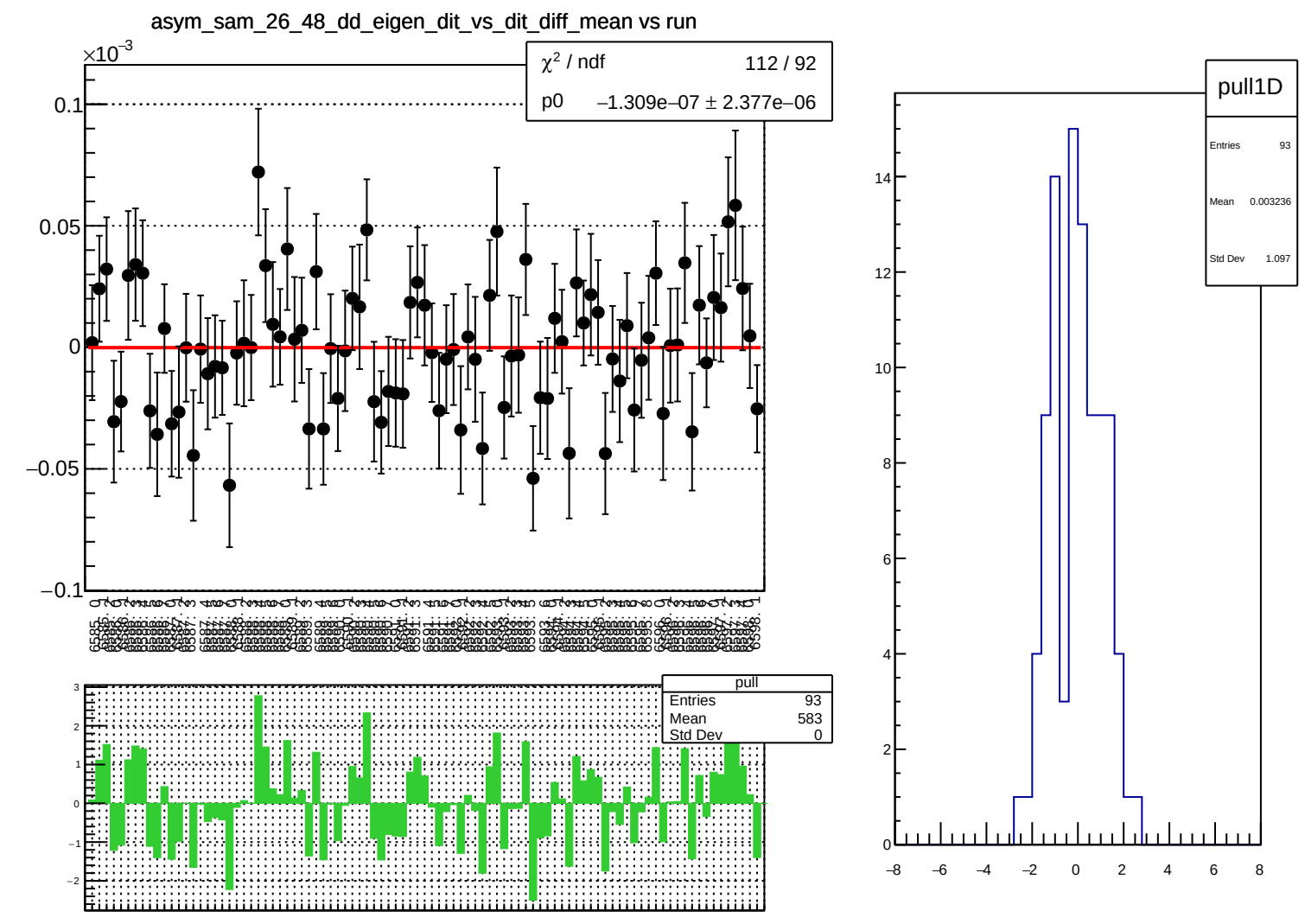

pull1D
Entries 93
Mean −0.002877
Std Dev 1.034

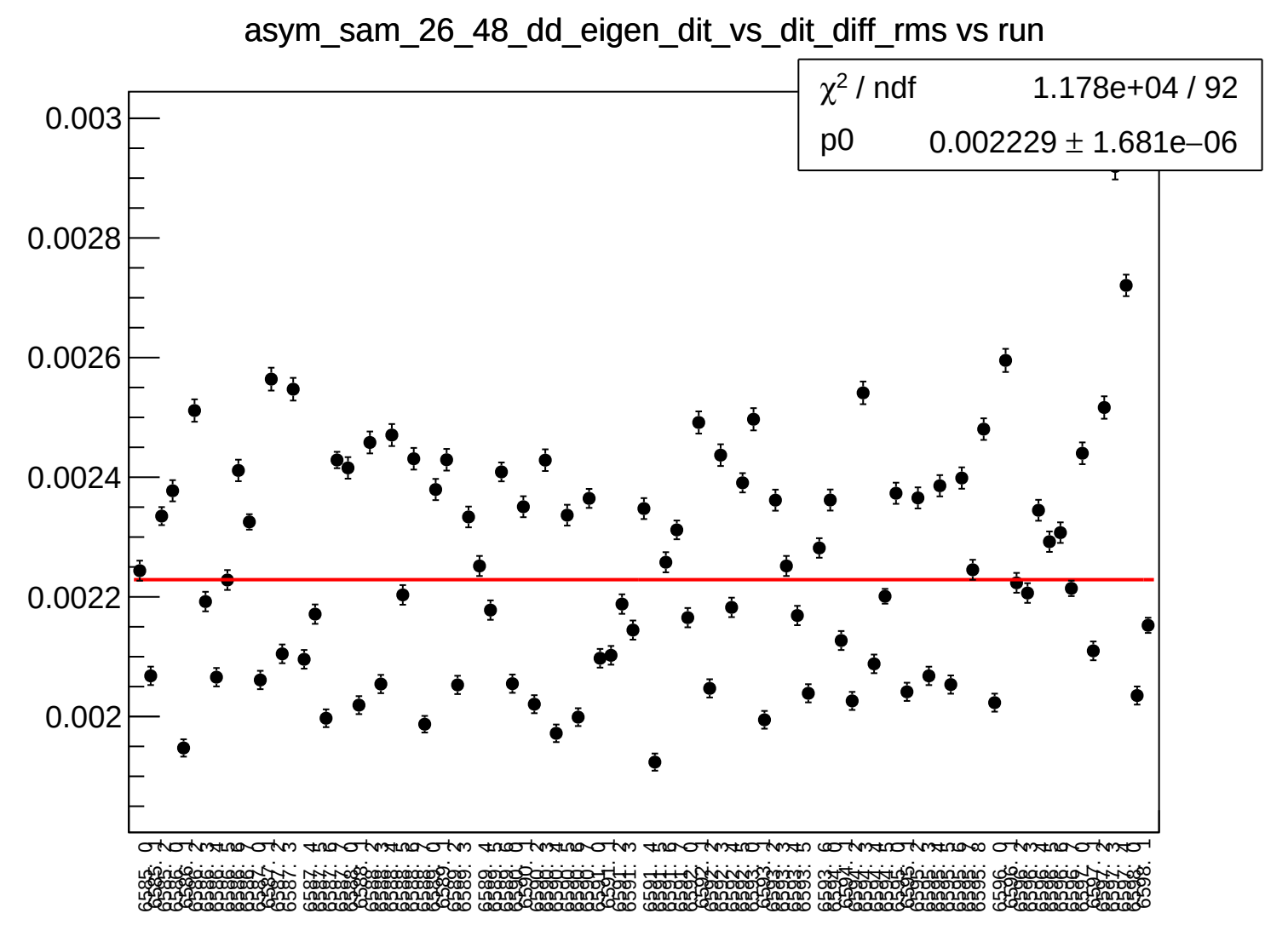

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.833e+04 / 92
p0 43.61 ± 0.03324
80
70
60
50
40
30

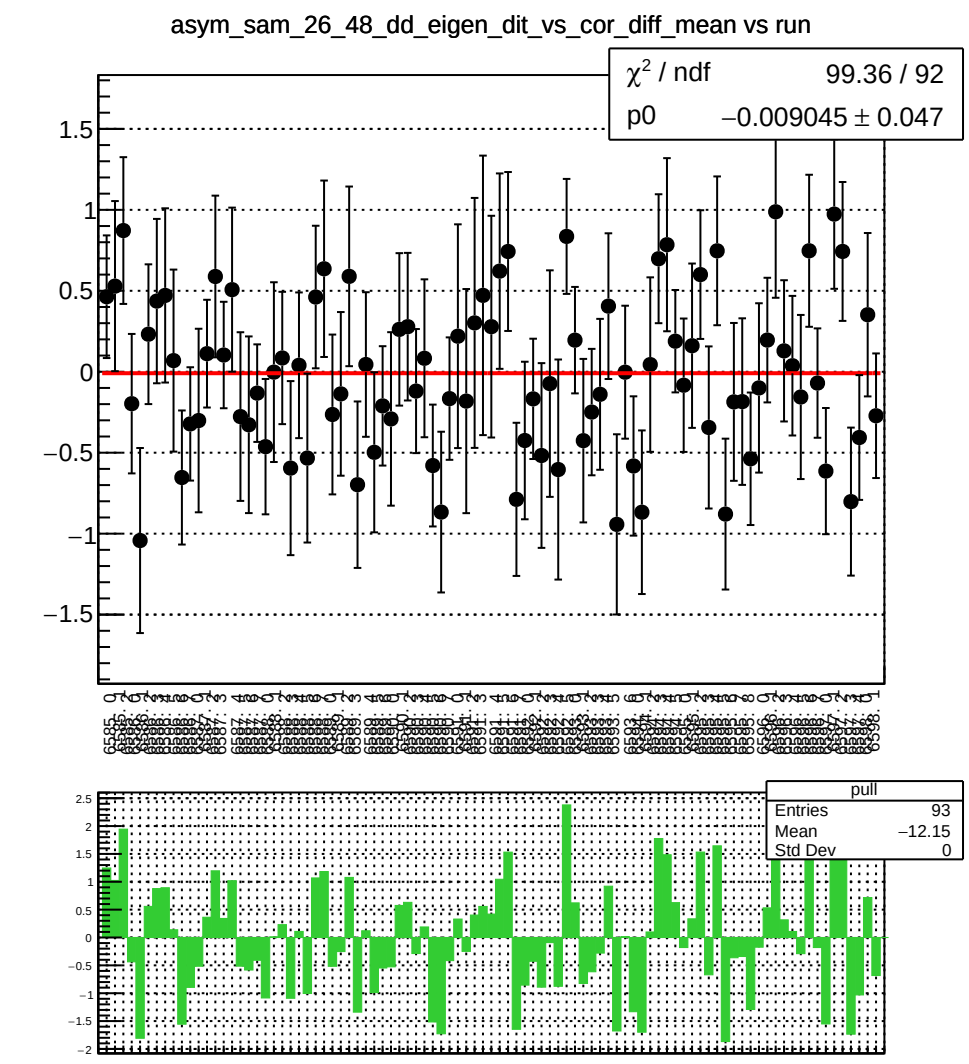

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.36 / 92
p0 −0.009043 ± 0.047
pull
Entries 93
Mean −12.08
Std Dev 0

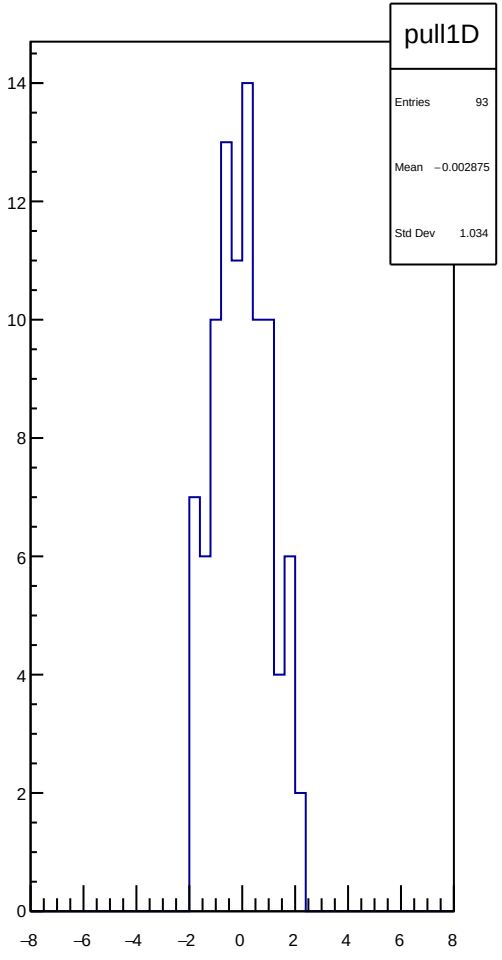

pull1D
Entries 93
Mean −0.002877
Std Dev 1.034

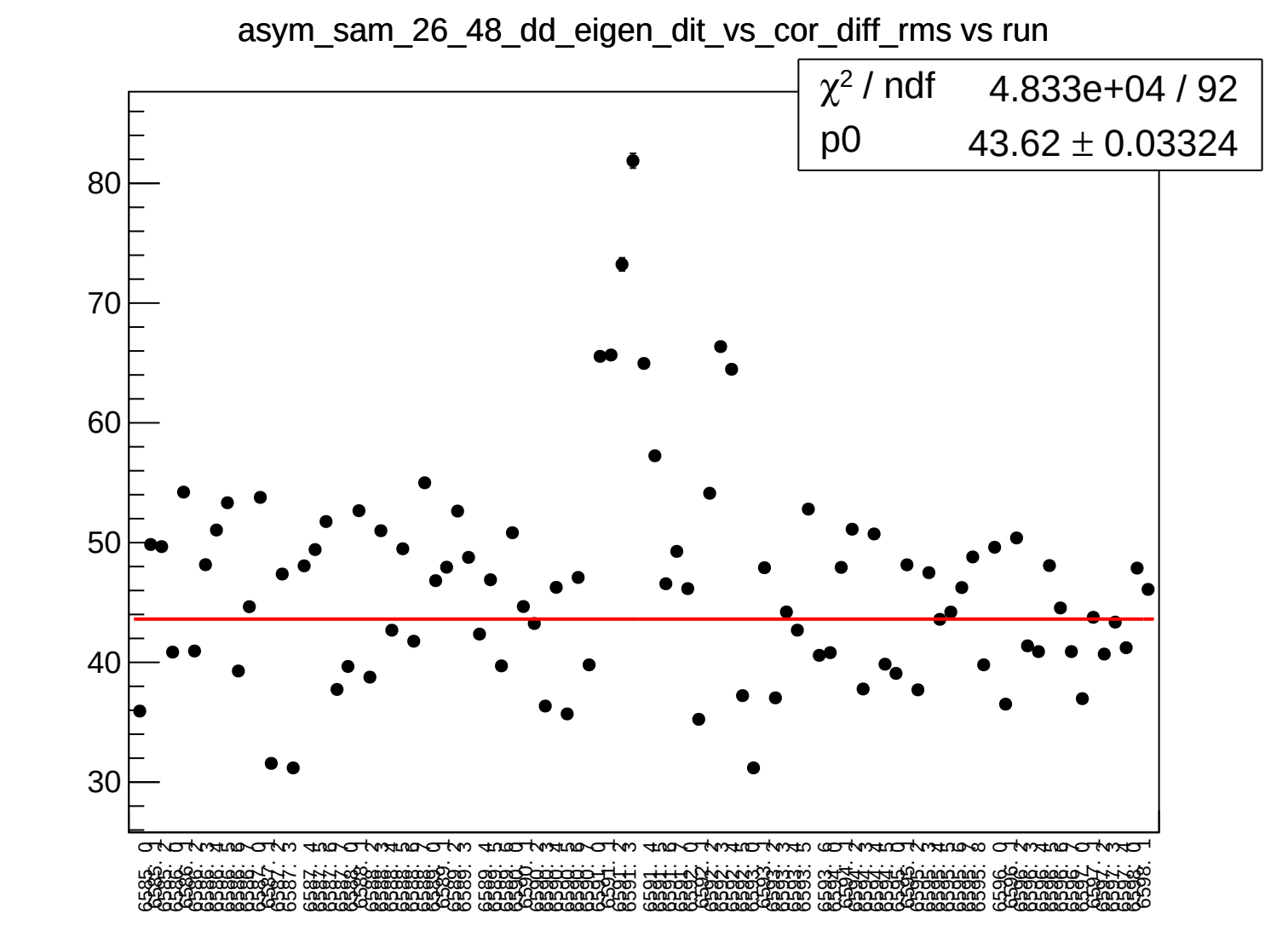

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.833e+04 / 92
p0 43.61 ± 0.03324
80
70
60
50
40
30

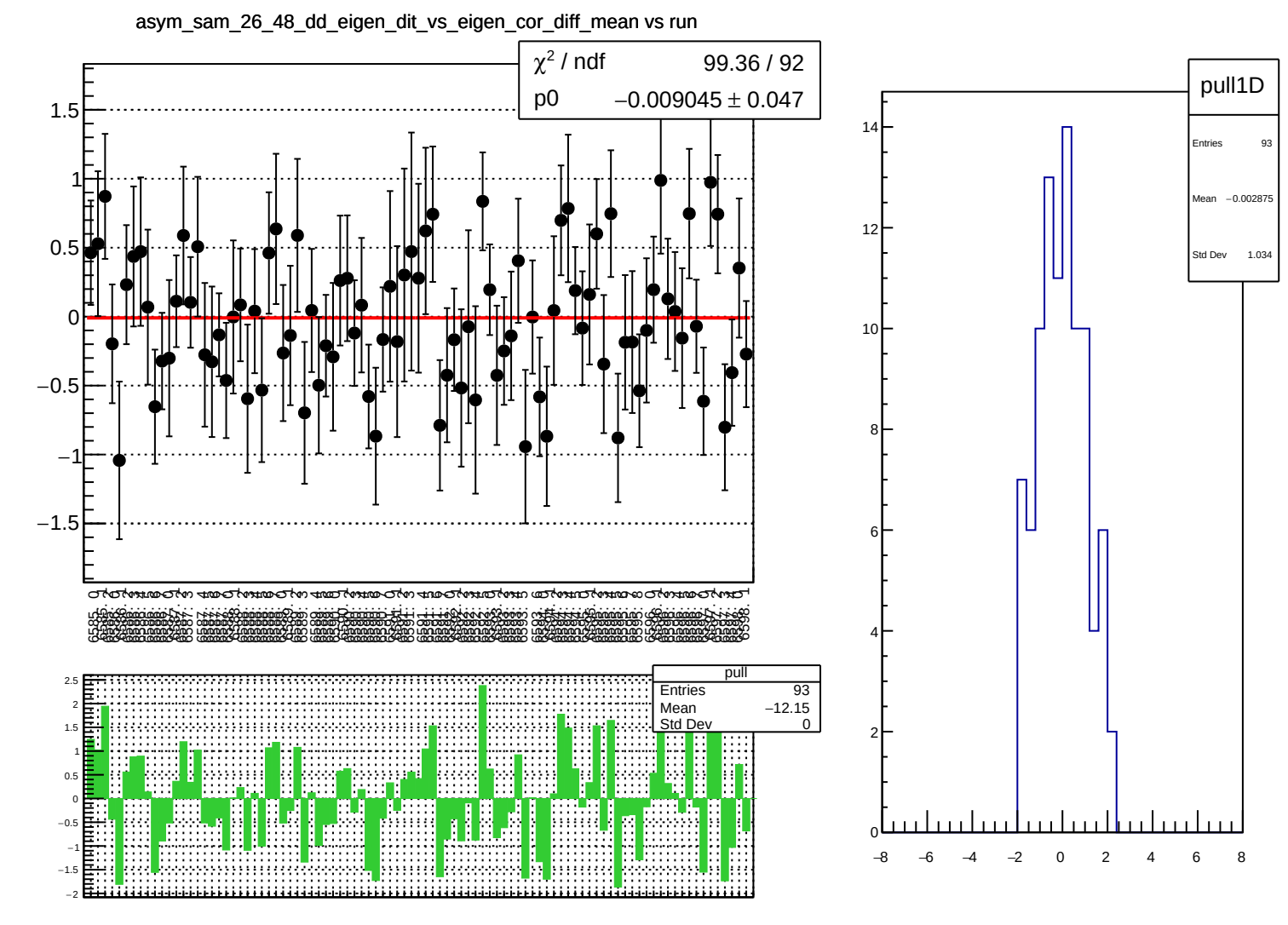

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 112 / 92
p0 −1.309e−07 ± 2.377e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 583
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003236
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

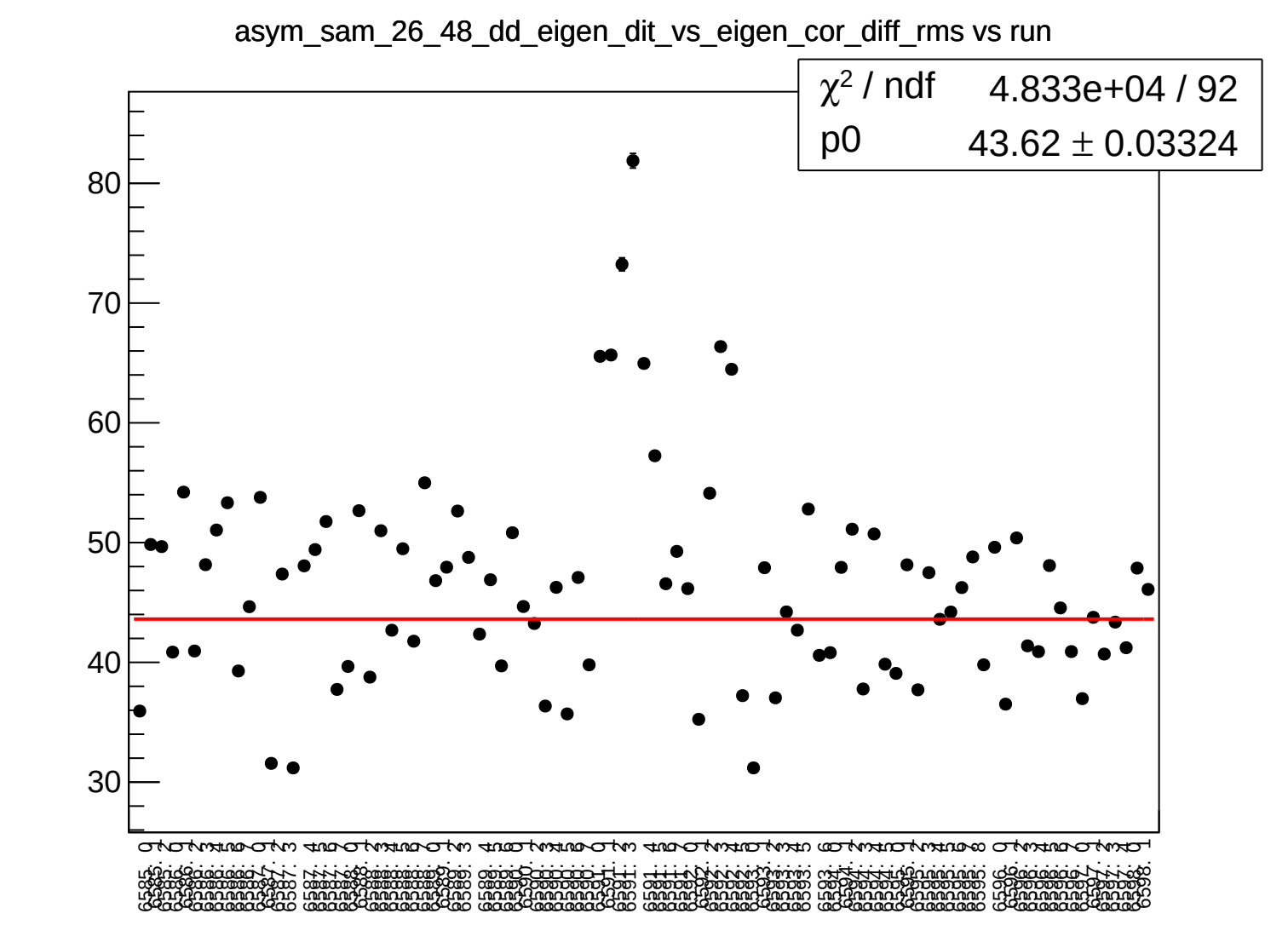

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.178e+04 / 92
p0 0.002229 ± 1.681e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

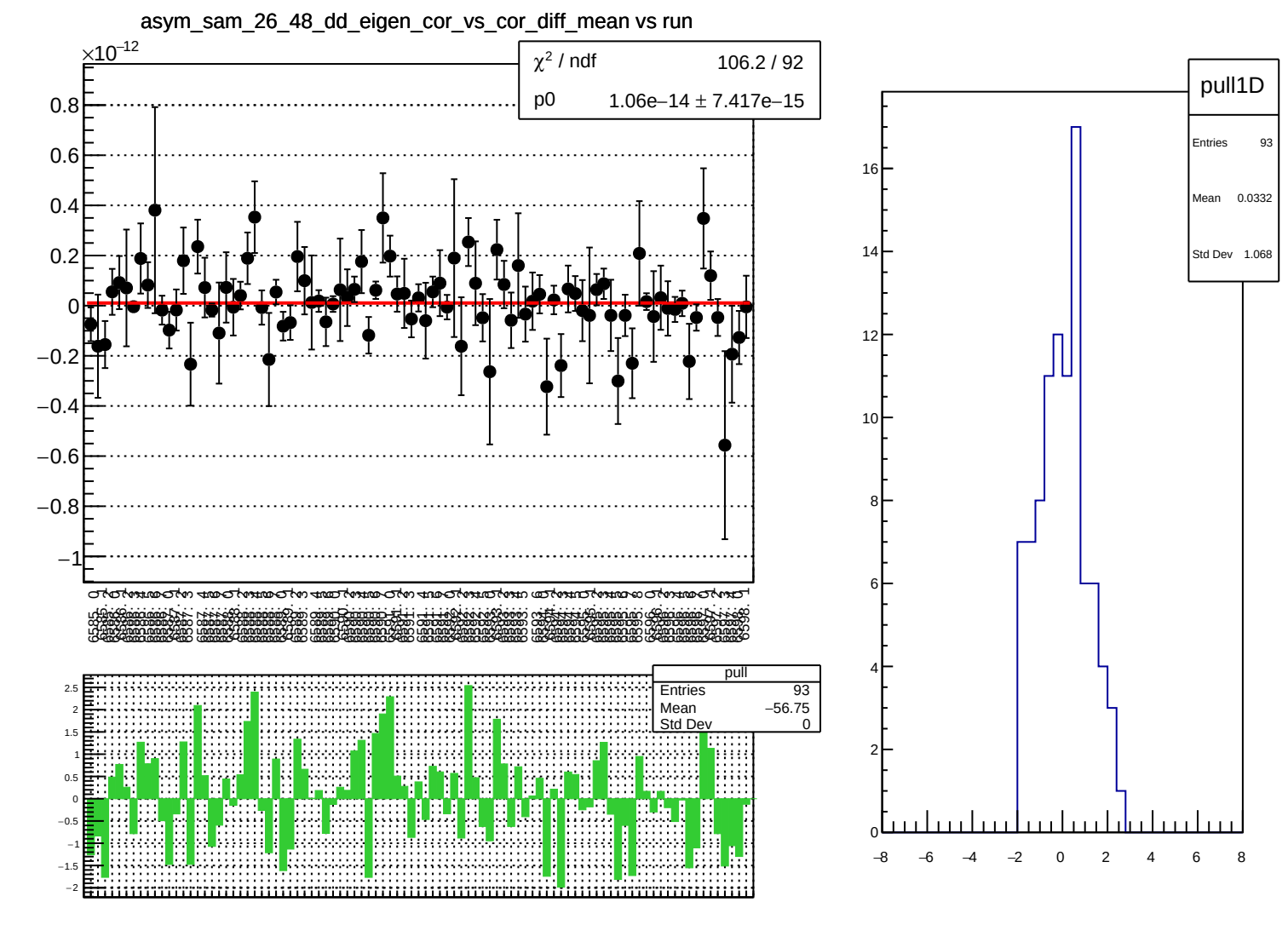

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.36 / 92
p0 −0.009045 ± 0.047
pull
Entries 93
Mean −12.15
Std Dev 0

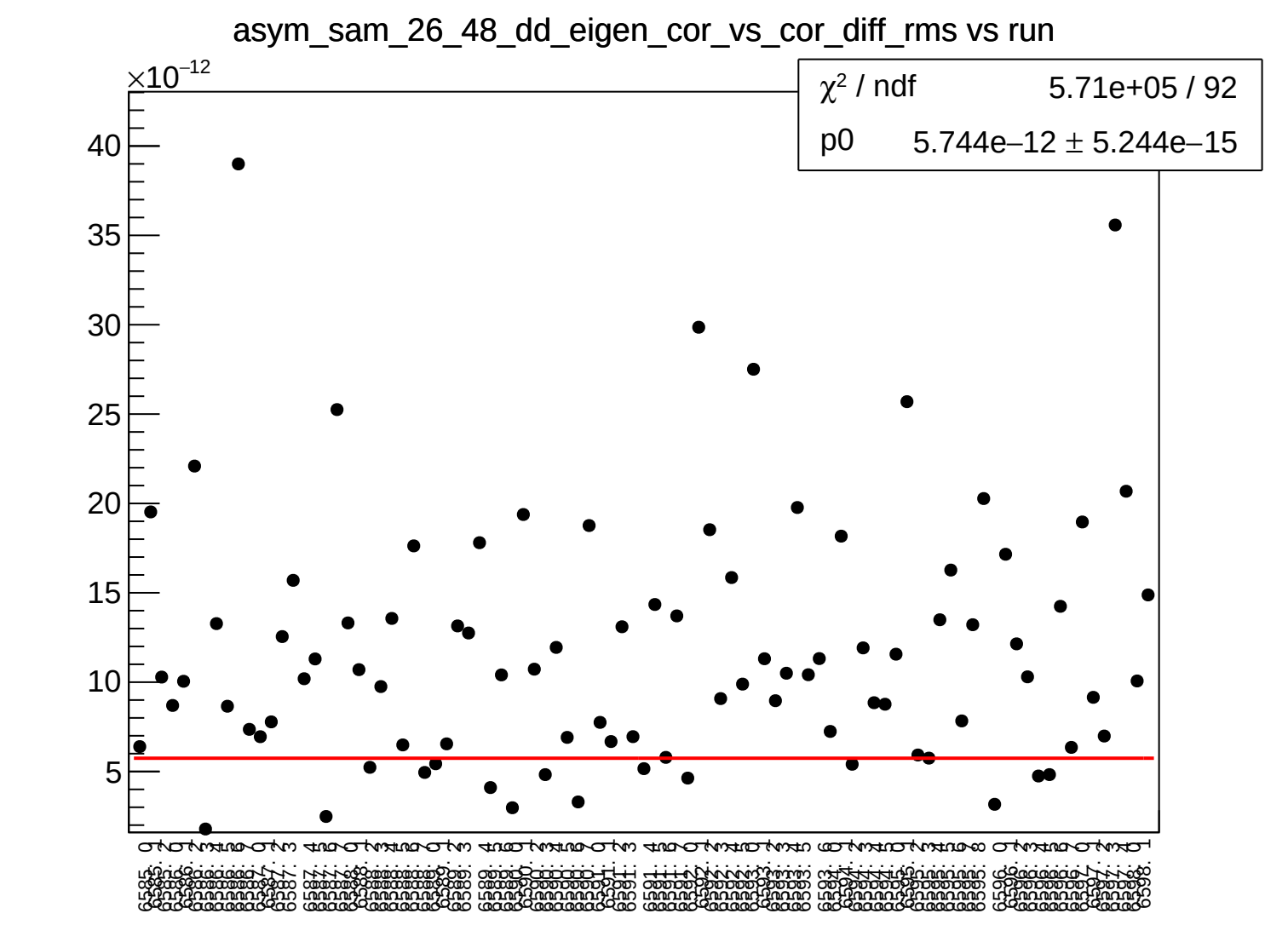

pull1D
Entries 93
Mean −0.002875
Std Dev 1.034

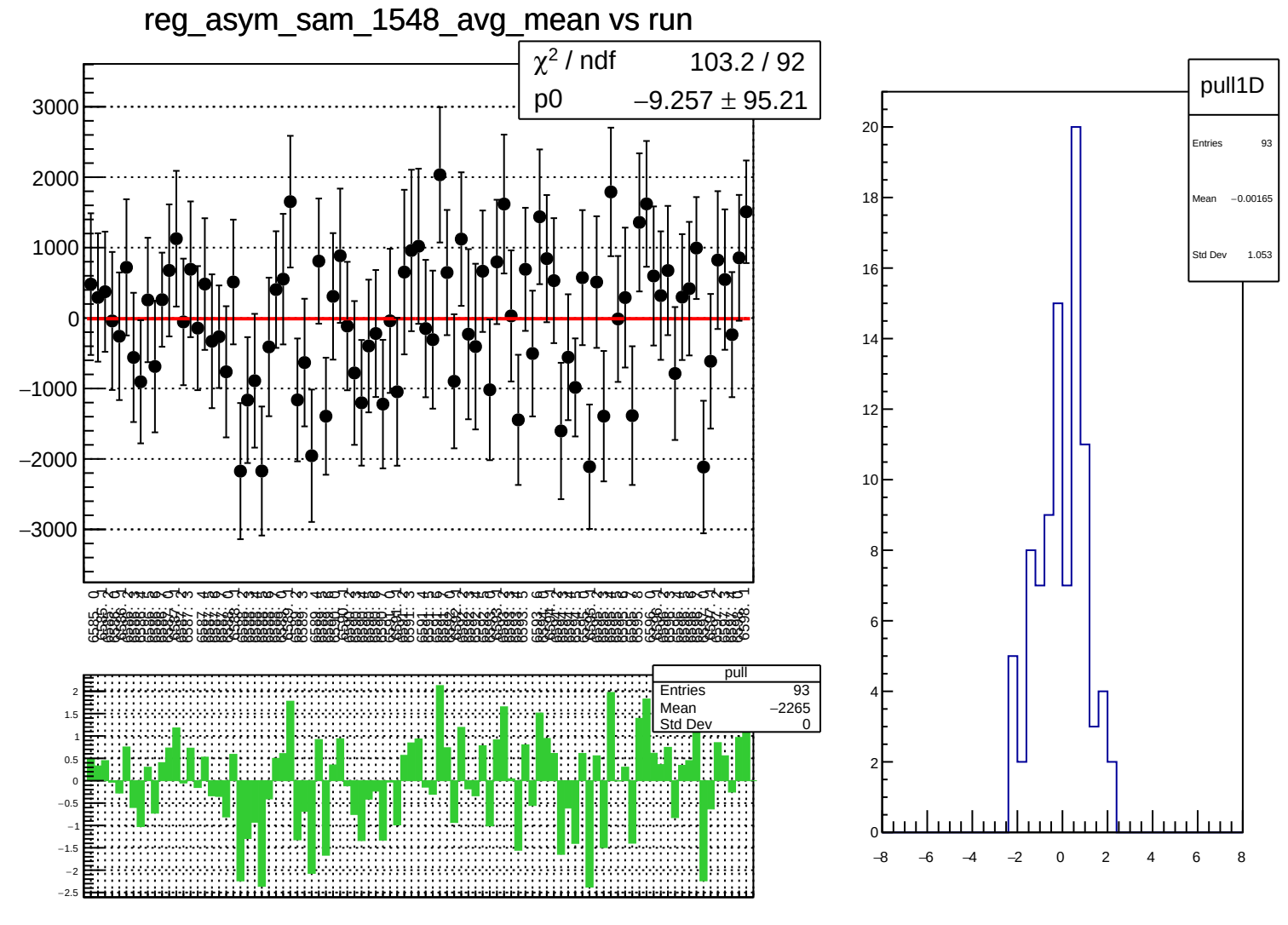

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.833e+04 / 92
p0 43.62 ± 0.03324
80
70
60
50
40
30


asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.36 / 92
p0 −0.009045 ± 0.047
pull
Entries 93
Mean −12.15
Std Dev 0
pull1D
Entries 93
Mean −0.002875
Std Dev 1.034


asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.833e+04 / 92
p0 43.62 ± 0.03324
80
70
60
50
40
30


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.2 / 92
p0 1.06e−14 ± 7.417e−15
pull
Entries 93
Mean −56.75
Std Dev 0
pull1D
Entries 93
Mean 0.0332
Std Dev 1.068


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.71e+05 / 92
p0 5.744e−12 ± 5.244e−15
40
35
30
25
20
15
10
5


reg_asym_sam_1548_avg_mean vs run
χ² / ndf 103.2 / 92
p0 −9.257 ± 95.21
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −2265
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.00165
Std Dev 1.053
20
18
16
14
12
10
8
6
4
2
0
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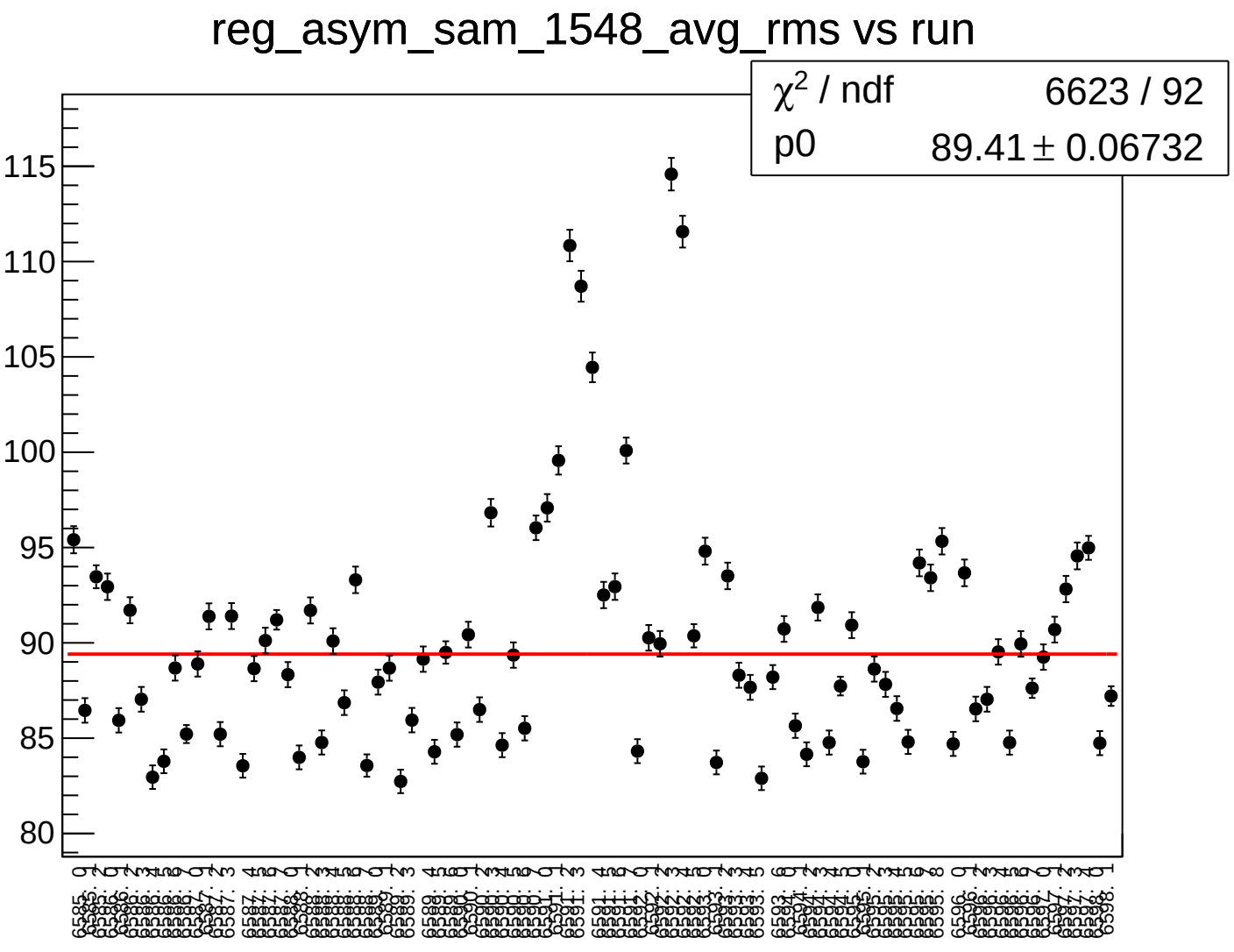
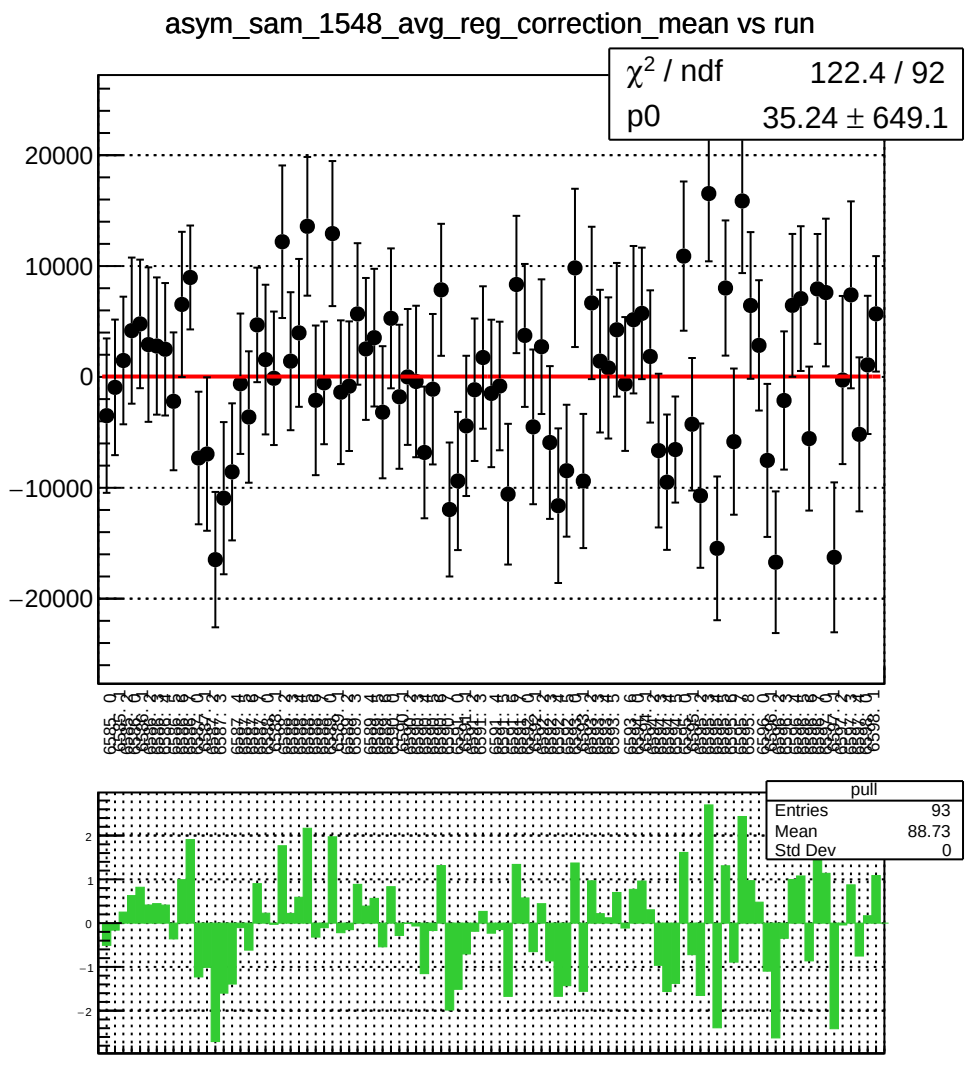
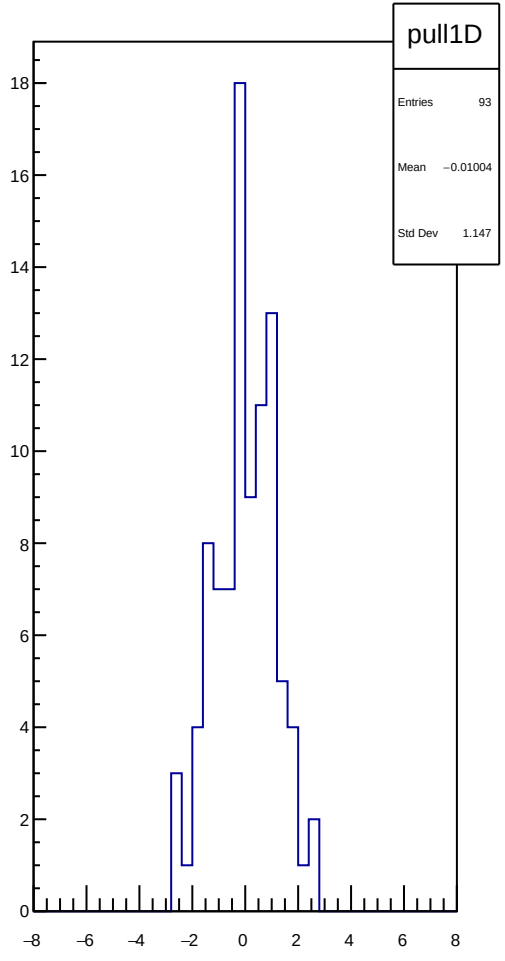
−4
−2
0
2
4
6
8


reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6623 / 92
p0 89.41 ± 0.06732
115
110
105
100
95
90
85
80


asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 122.4 / 92
p0 35.24 ± 649.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 88.73
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.01004
Std Dev 1.147
18
16
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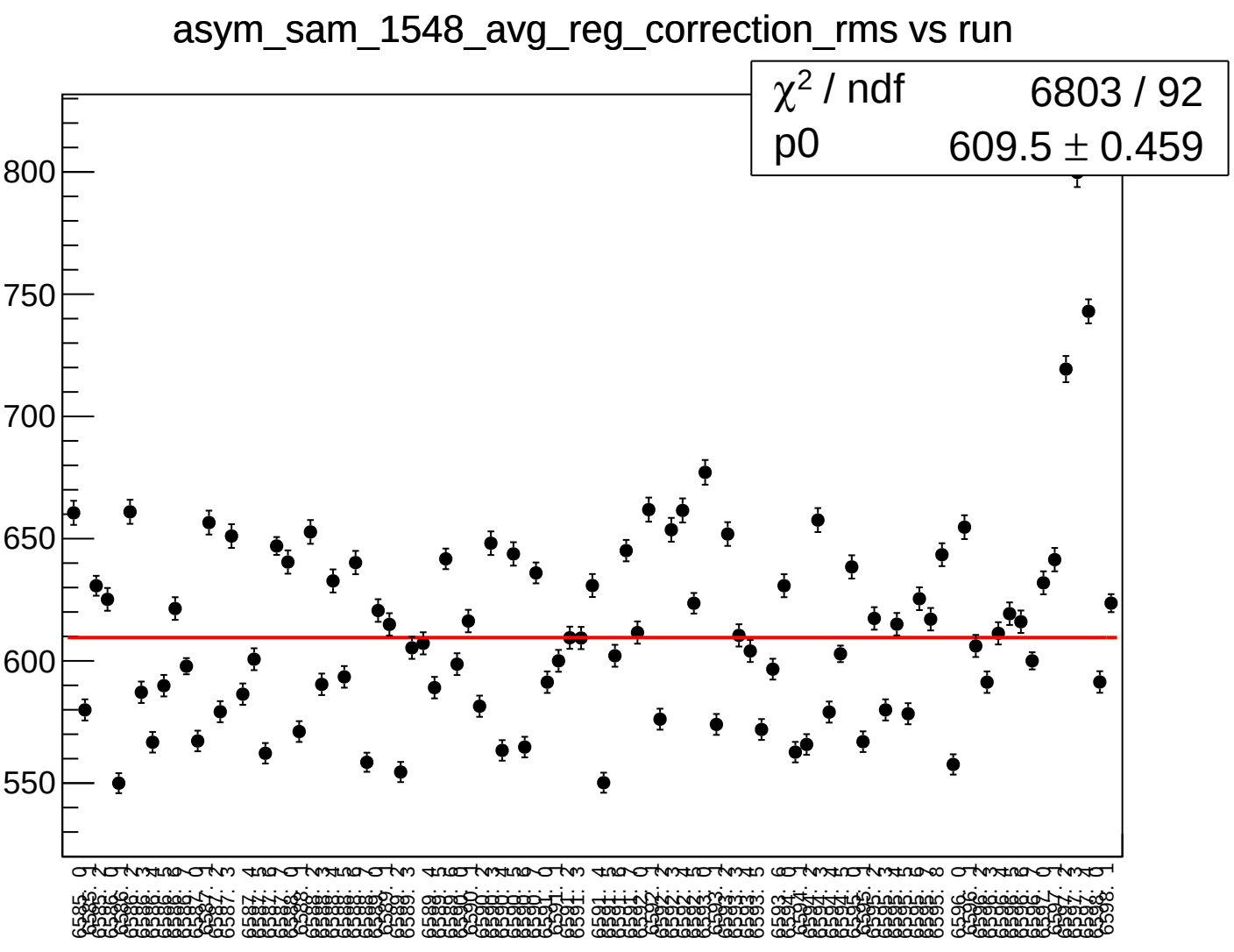
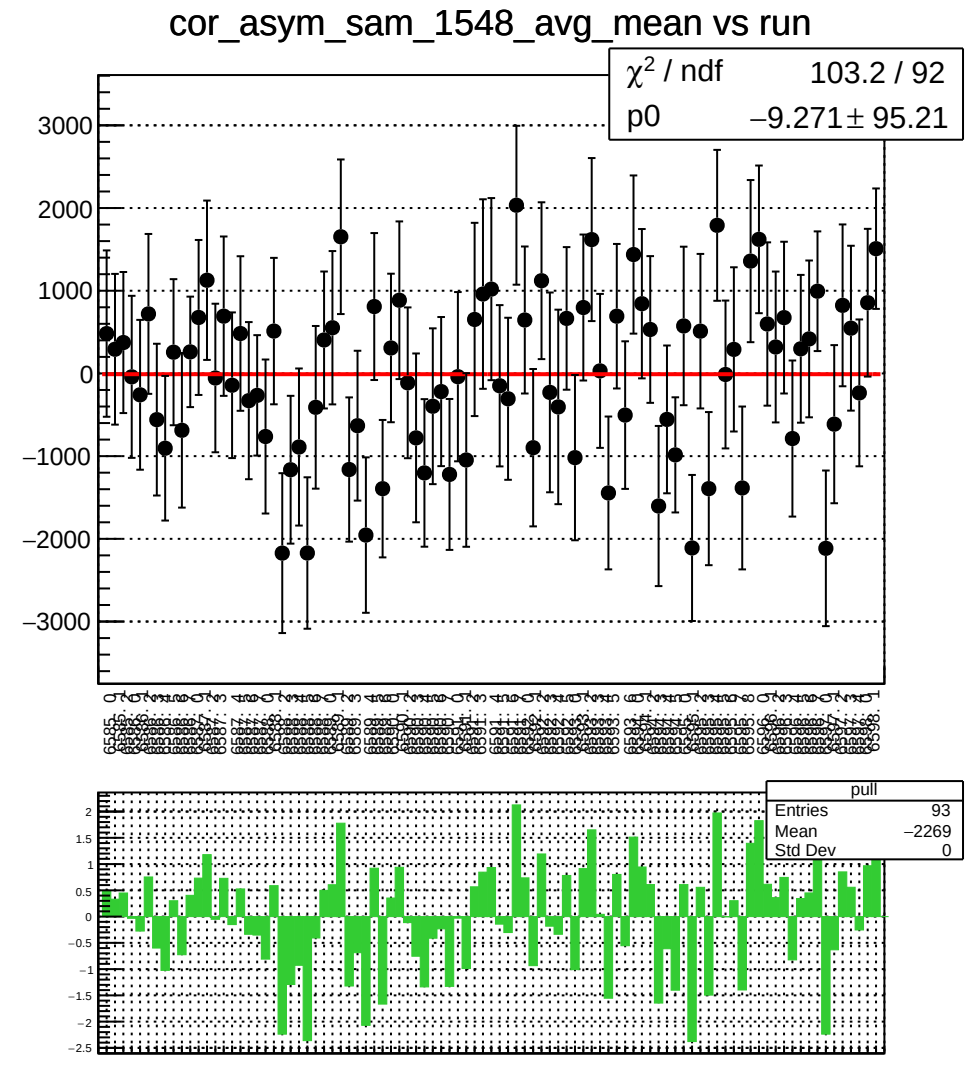
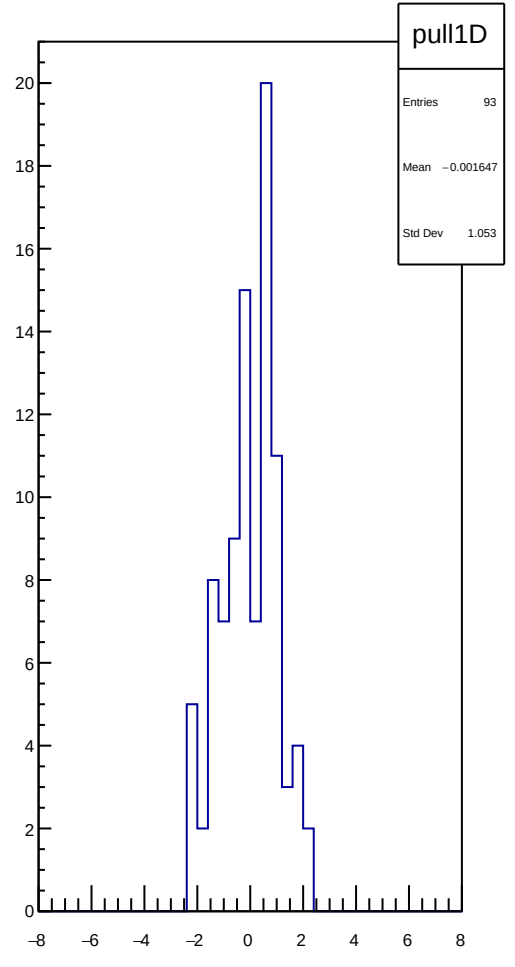
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 6803 / 92
p0 609.5 ± 0.459
800
750
700
650
600
550


cor_asym_sam_1548_avg_mean vs run
χ² / ndf 103.2 / 92
p0 −9.271 ± 95.21
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −2269
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 93
Mean −0.001647
Std Dev 1.053
20
18
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10
8
6
4
2
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−6
−4
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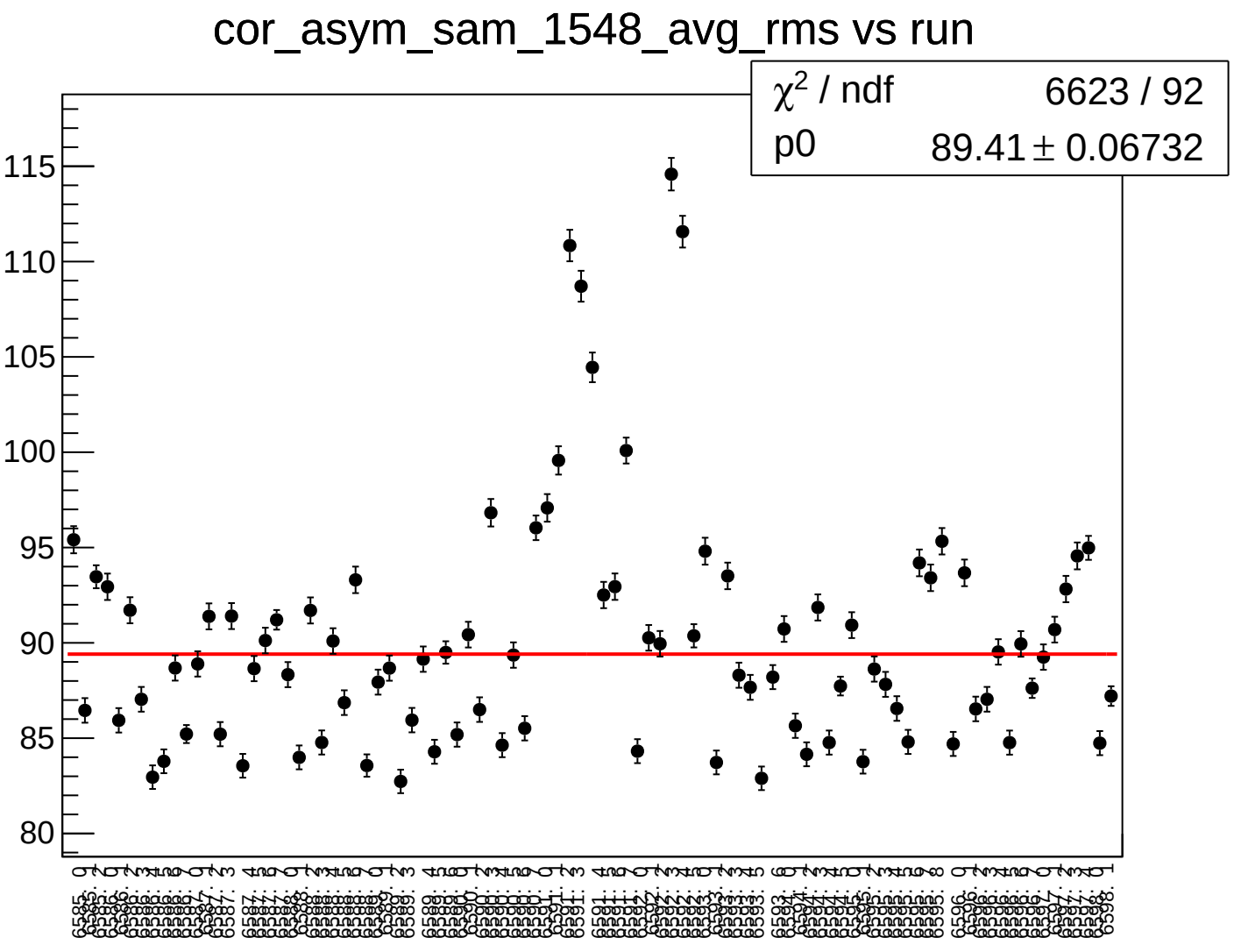
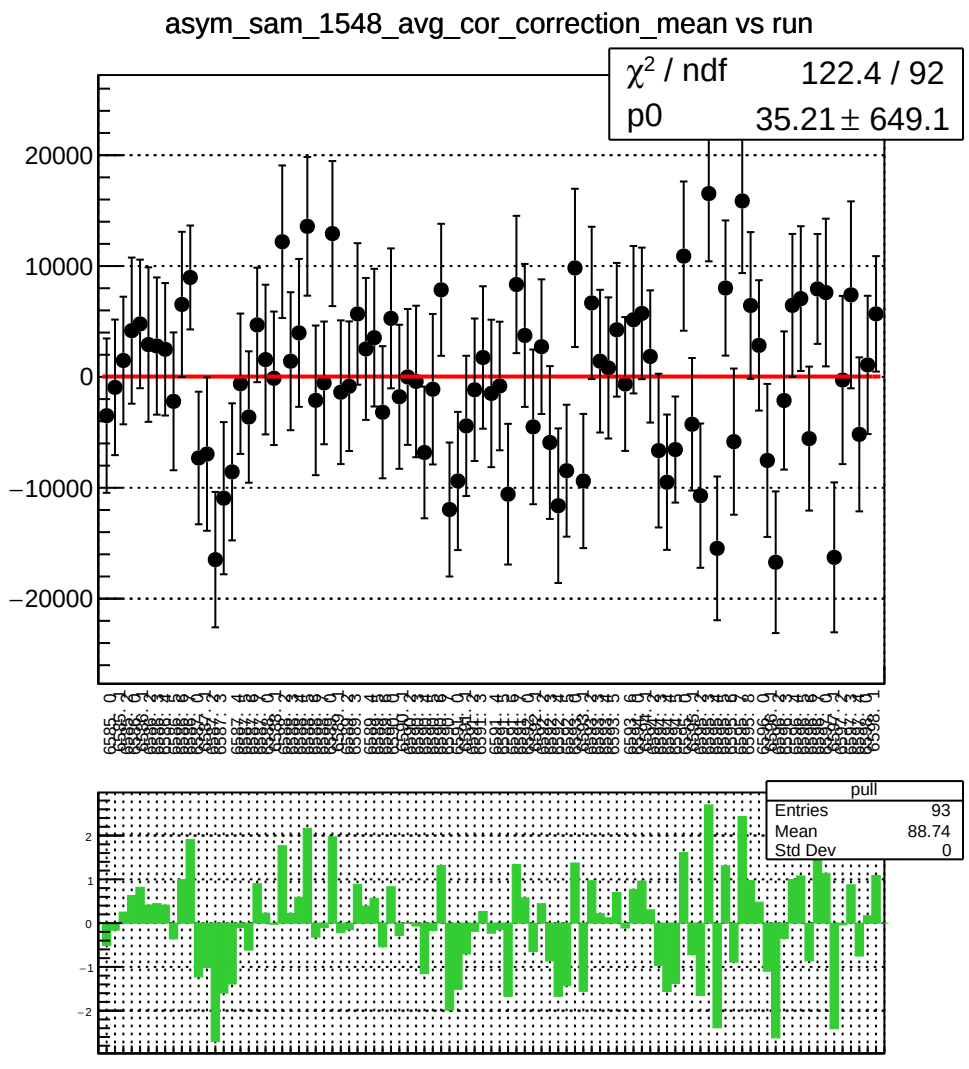
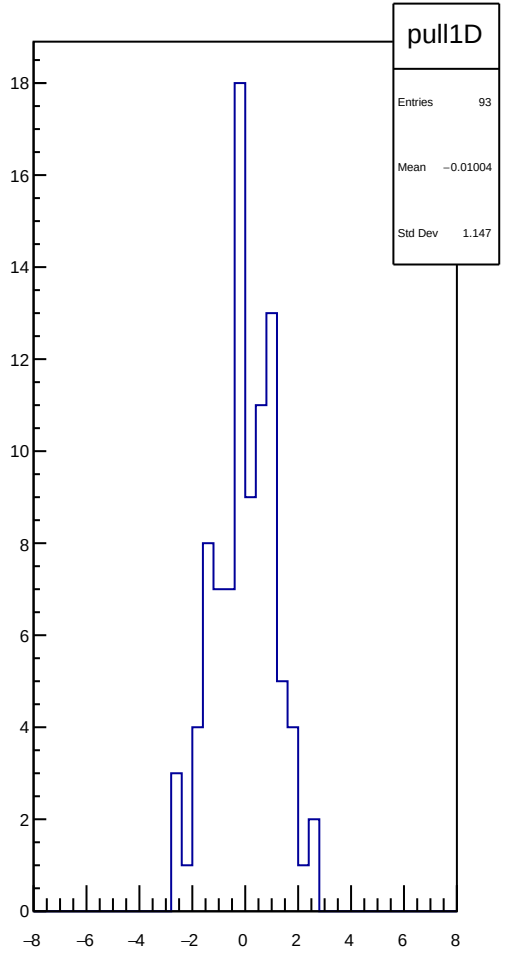
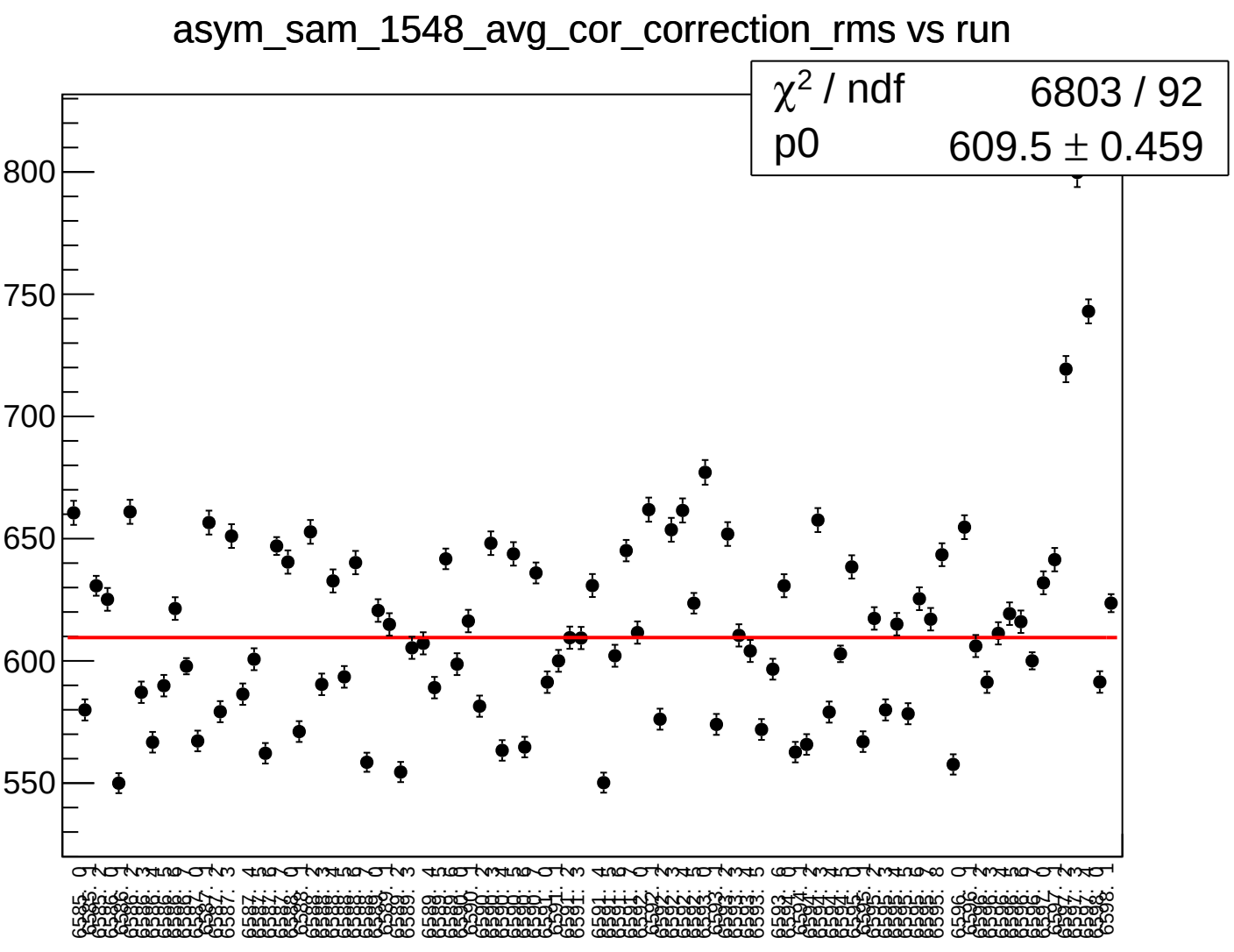
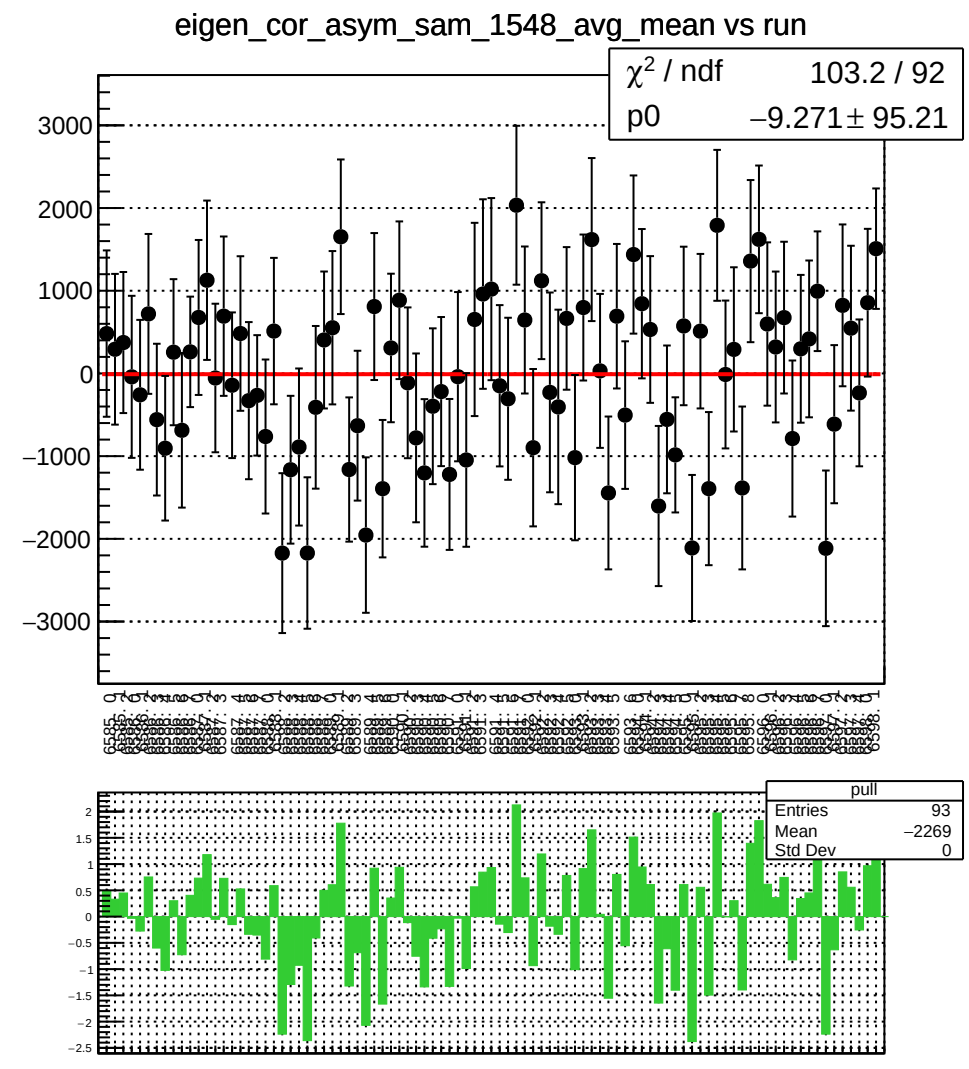
0
2
4
6
8

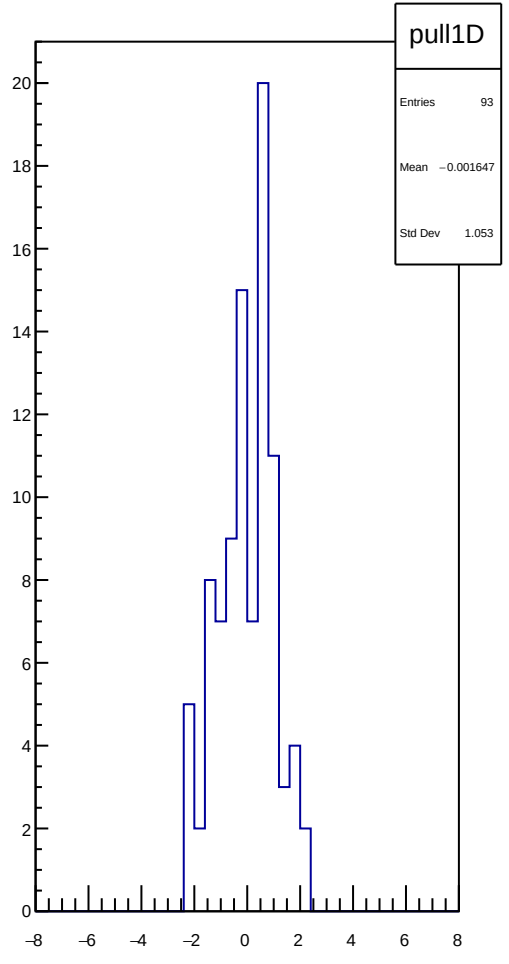

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6623 / 92
p0 89.41 ± 0.06732
115
110
105
100
95
90
85
80


asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 122.4 / 92
p0 35.21 ± 649.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 88.74
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.01004
Std Dev 1.147
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 6803 / 92
p0 609.5 ± 0.459
800
750
700
650
600
550


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 103.2 / 92
p0 −9.271 ± 95.21
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −2269
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 93
Mean −0.001647
Std Dev 1.053
20
18
16
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6
4
2
0
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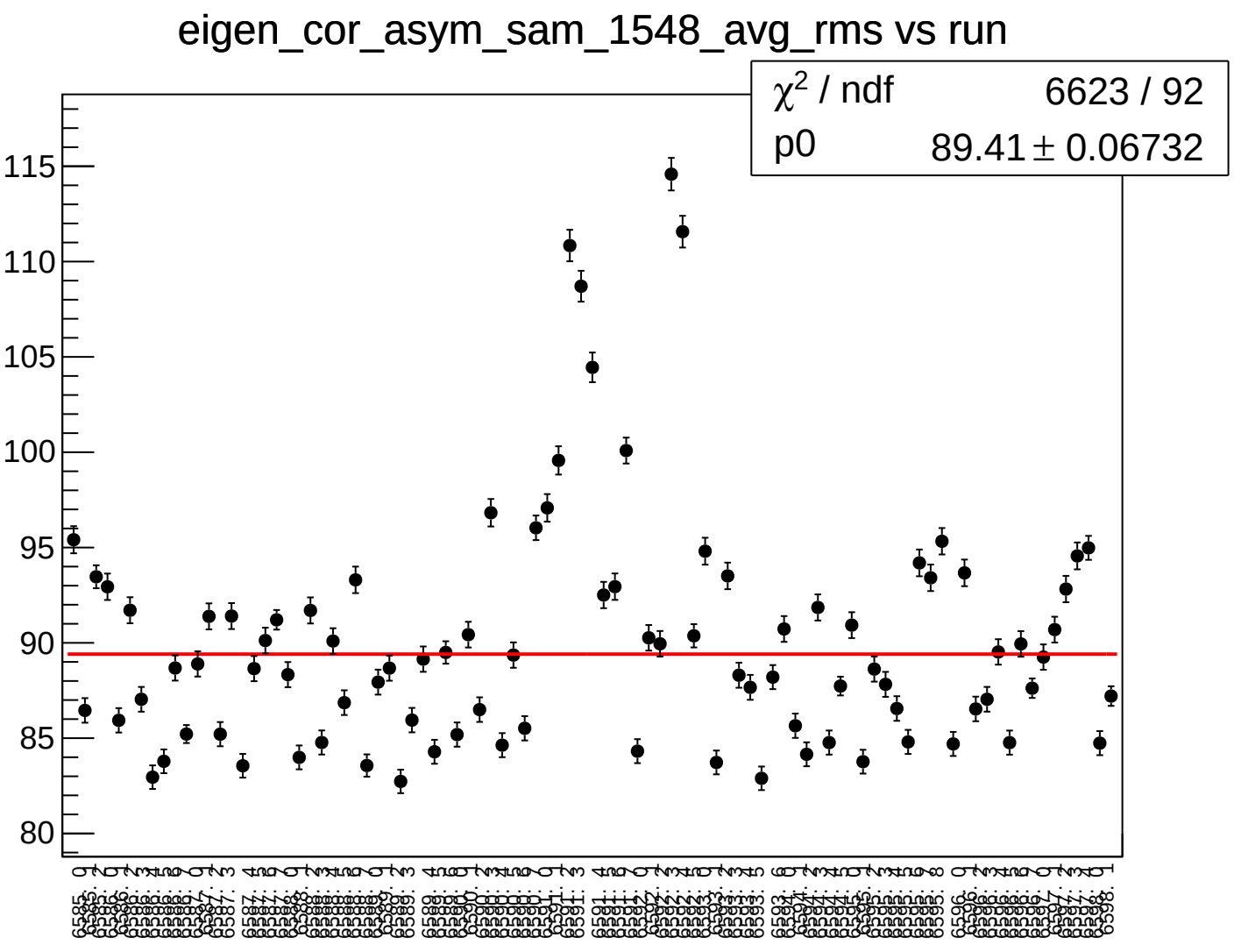
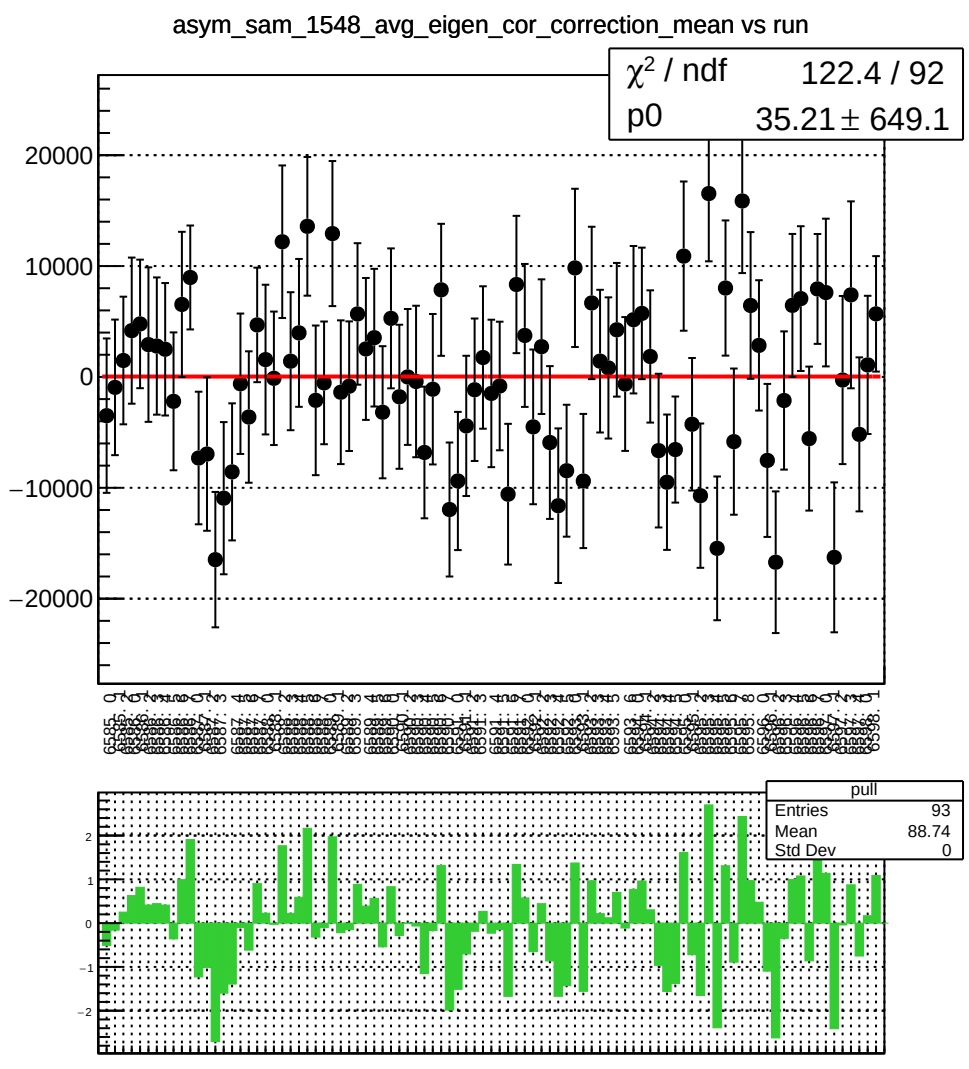
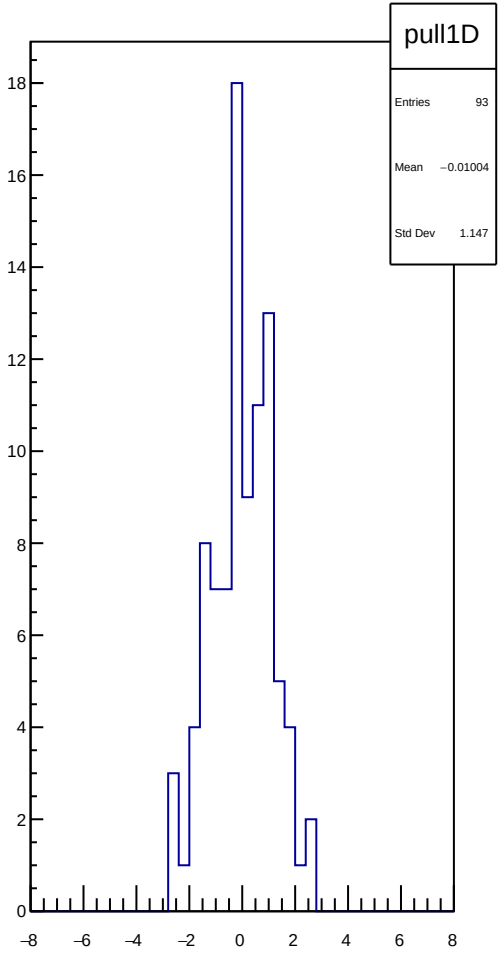
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 6623 / 92
p0 89.41 ± 0.06732
115
110
105
100
95
90
85
80


asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 122.4 / 92
p0 35.21 ± 649.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 88.74
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.01004
Std Dev 1.147
18
16
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10
8
6
4
2
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−8
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−4
−2
0
2
4
6
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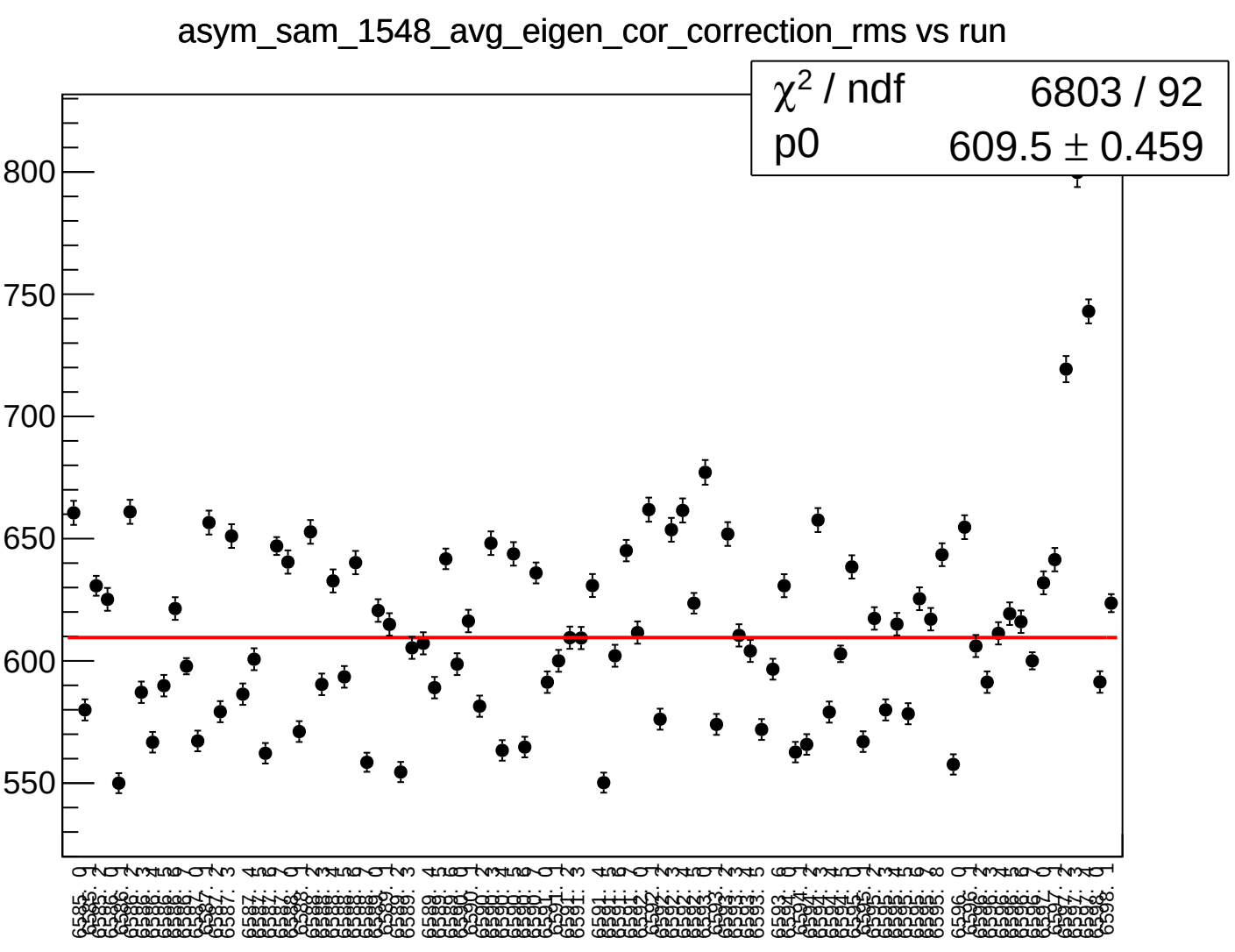
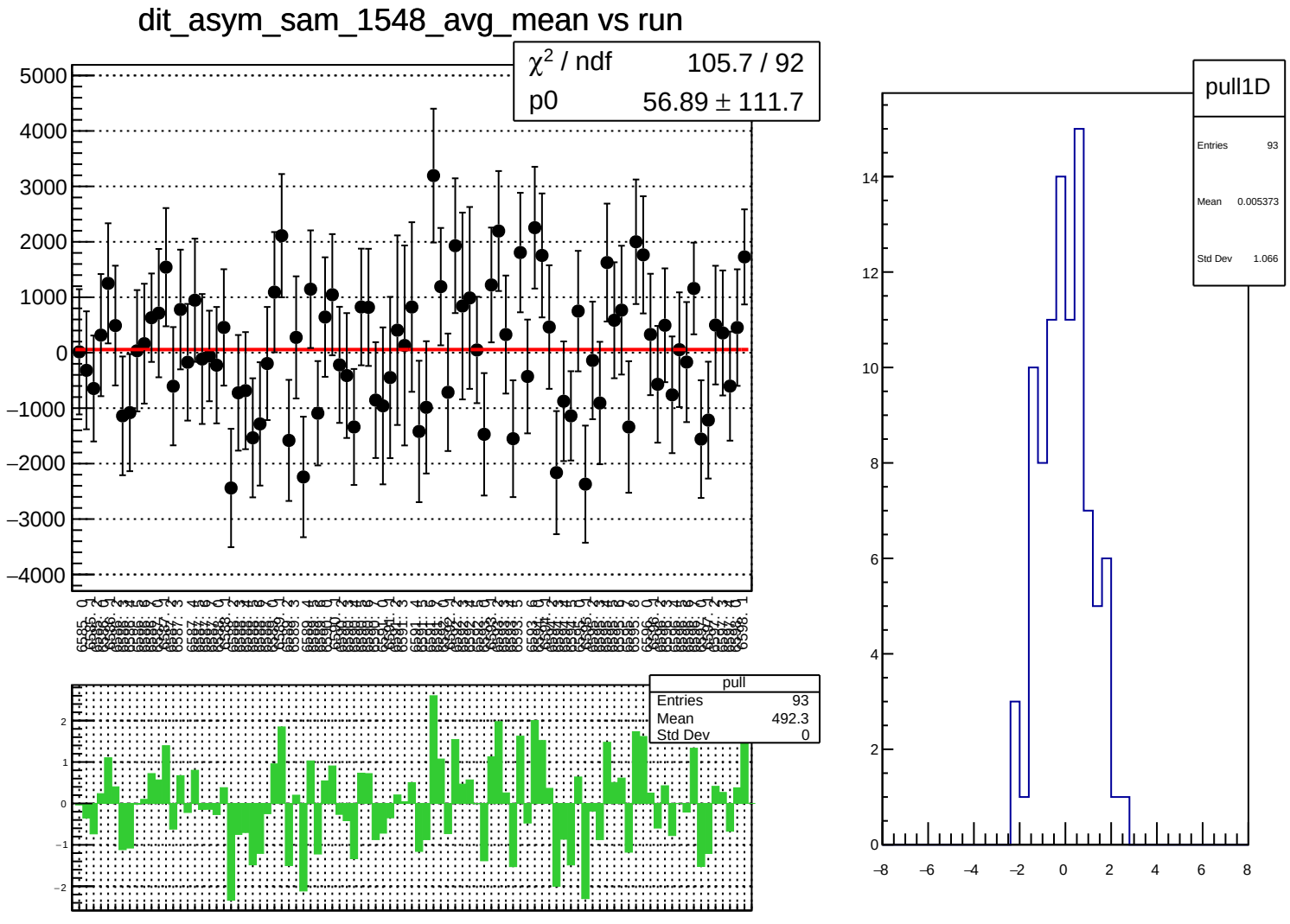
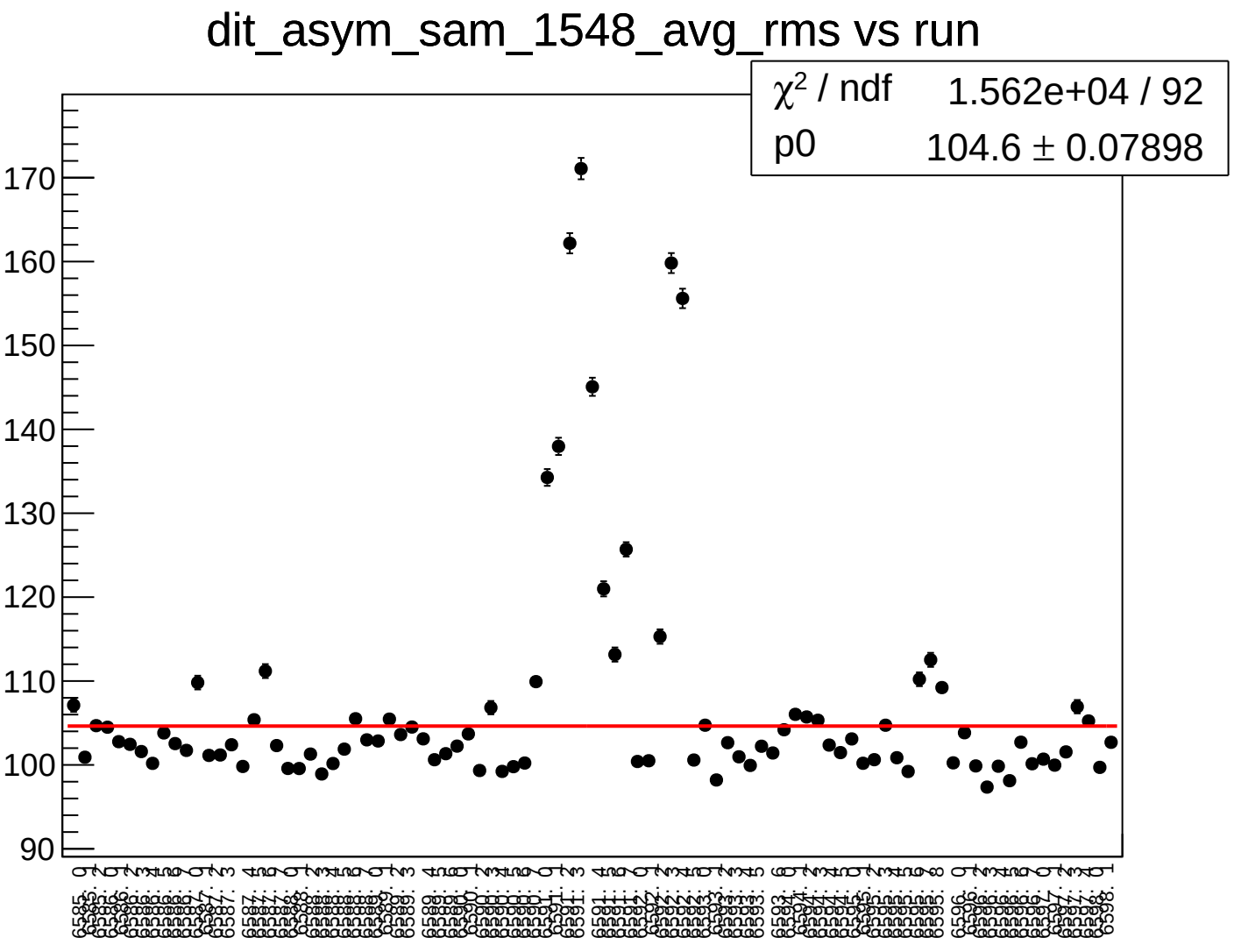
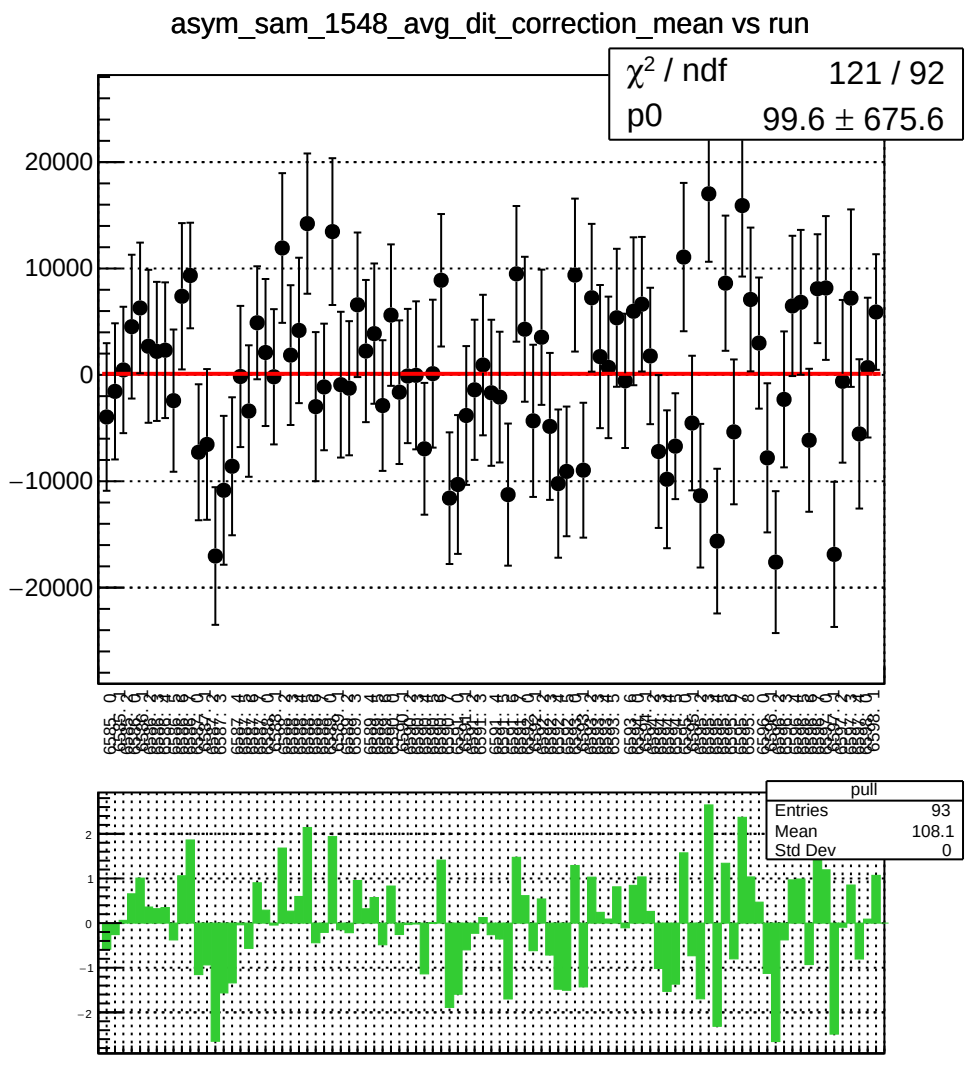
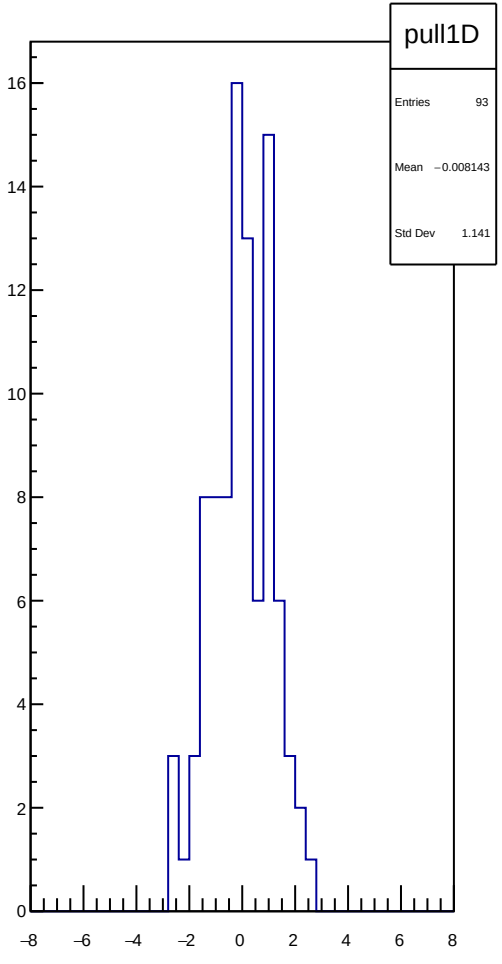
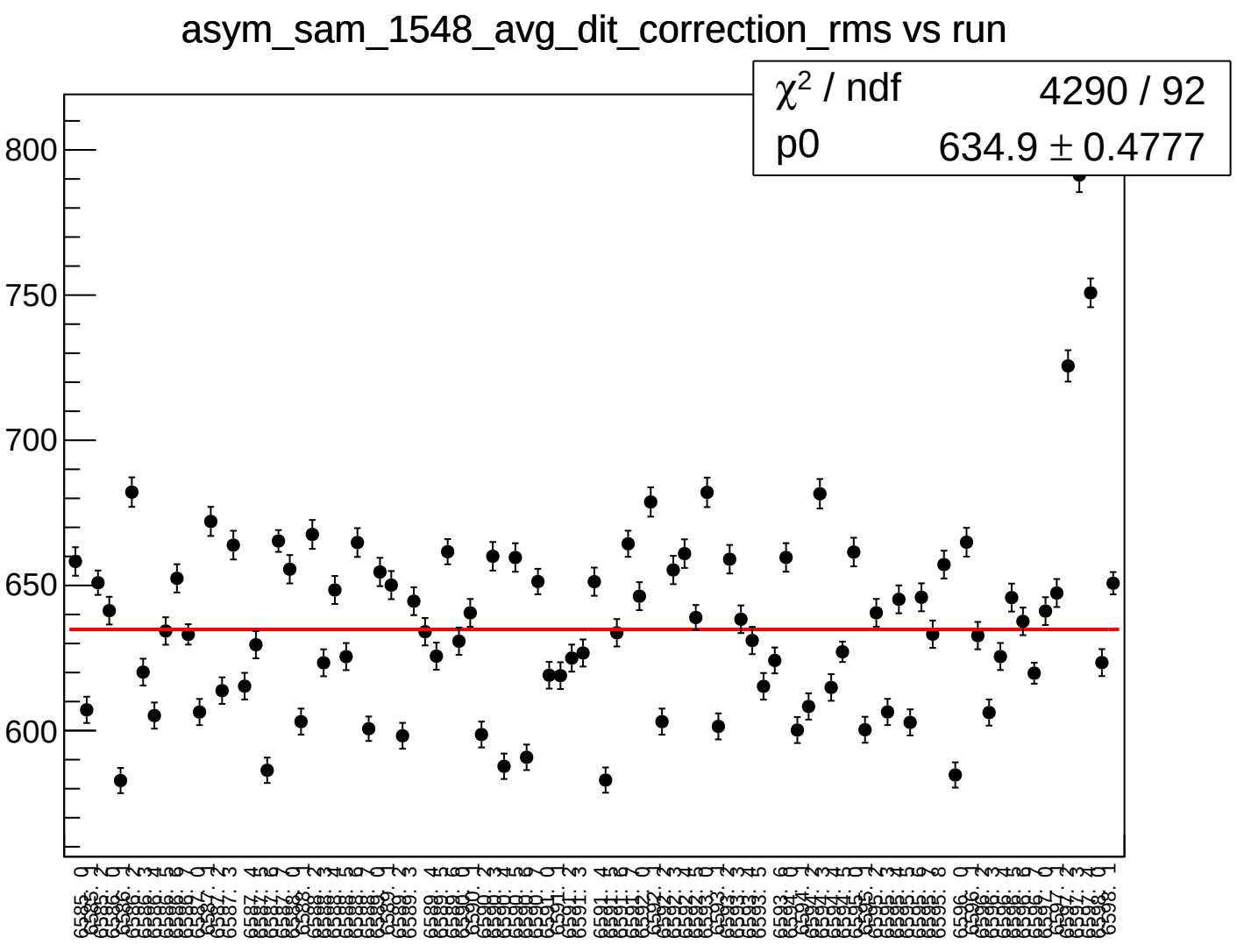

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 6803 / 92
p0 609.5 ± 0.459
800
750
700
650
600
550

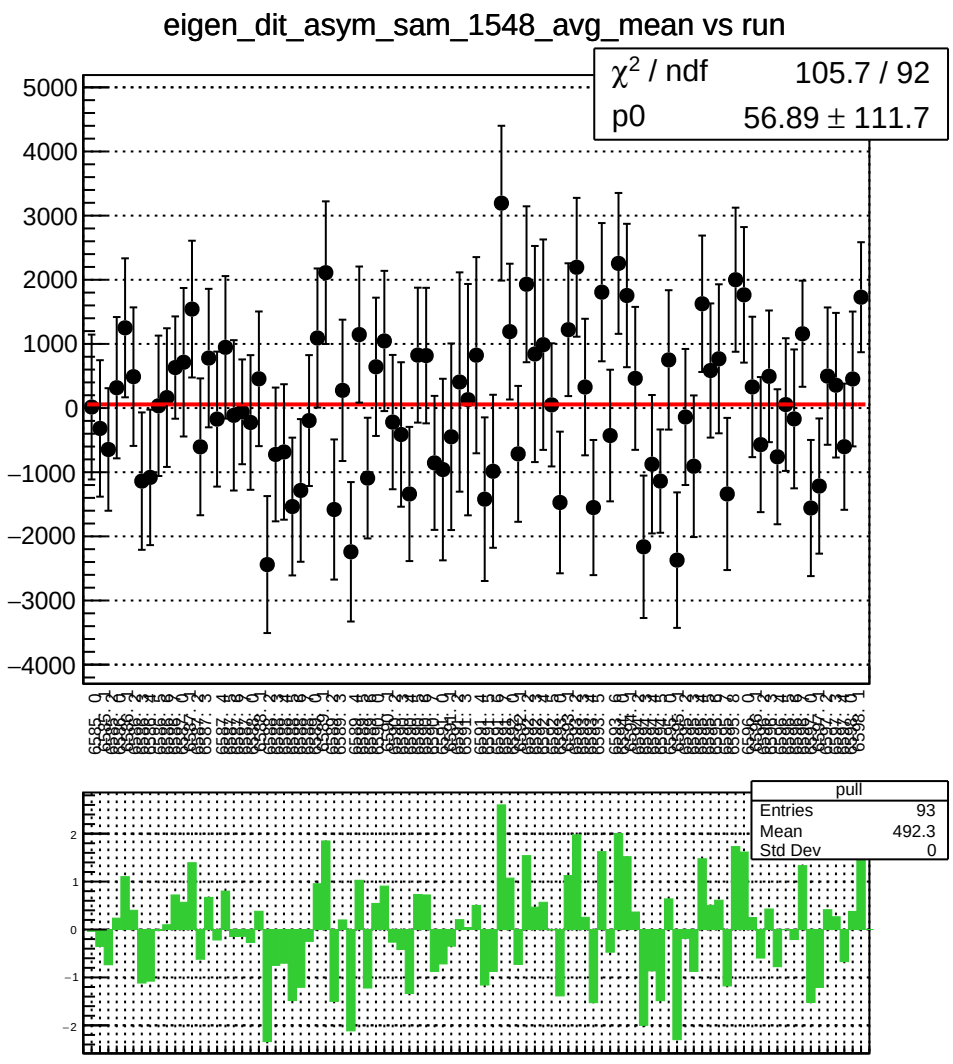

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 105.7 / 92
p0 56.89 ± 111.7
pull
Entries 93
Mean 492.3
Std Dev 0
pull1D
Entries 93
Mean 0.005373
Std Dev 1.066

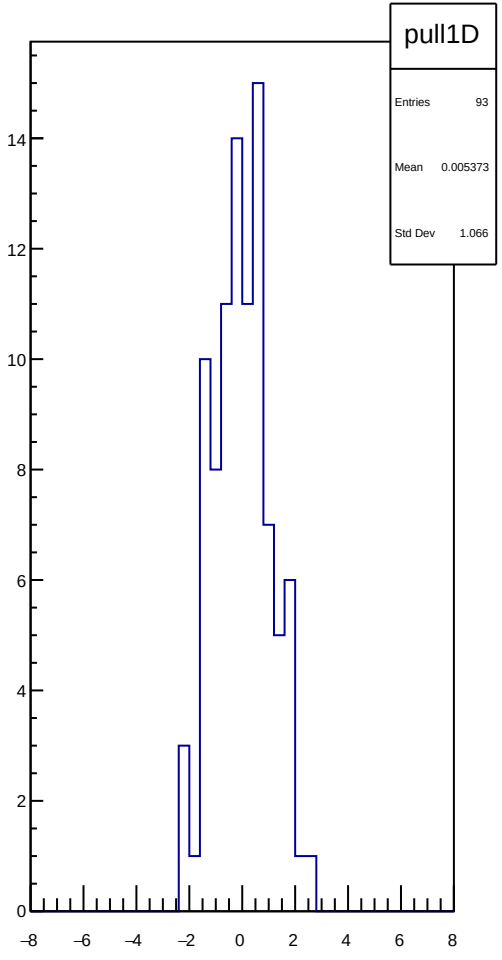

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.562e+04 / 92
p0 104.6 ± 0.07898
170
160
150
140
130
120
110
100
90

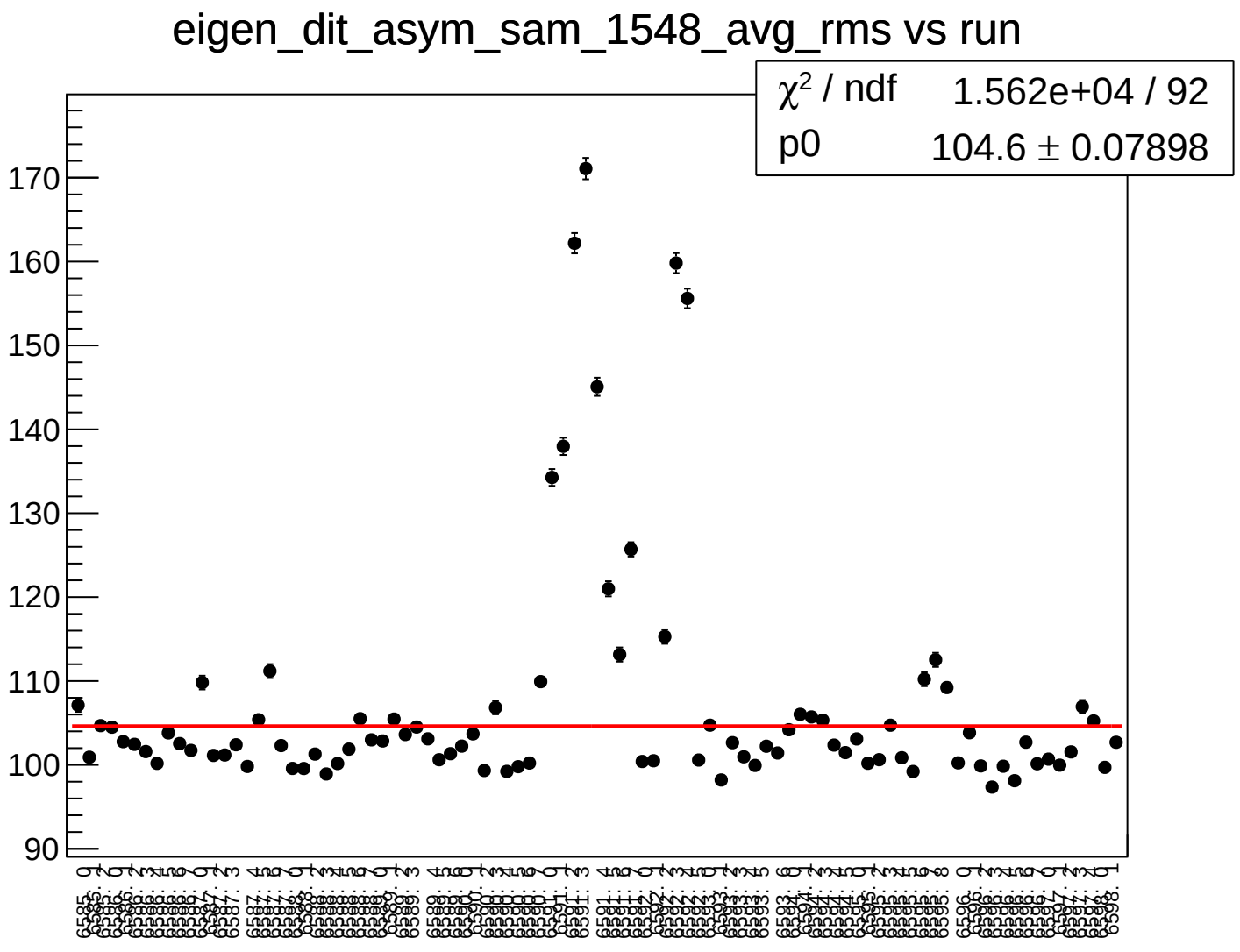

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 121 / 92
p0 99.6 ± 675.6
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 108.1
Std Dev 0
2
1
0
−1
−2

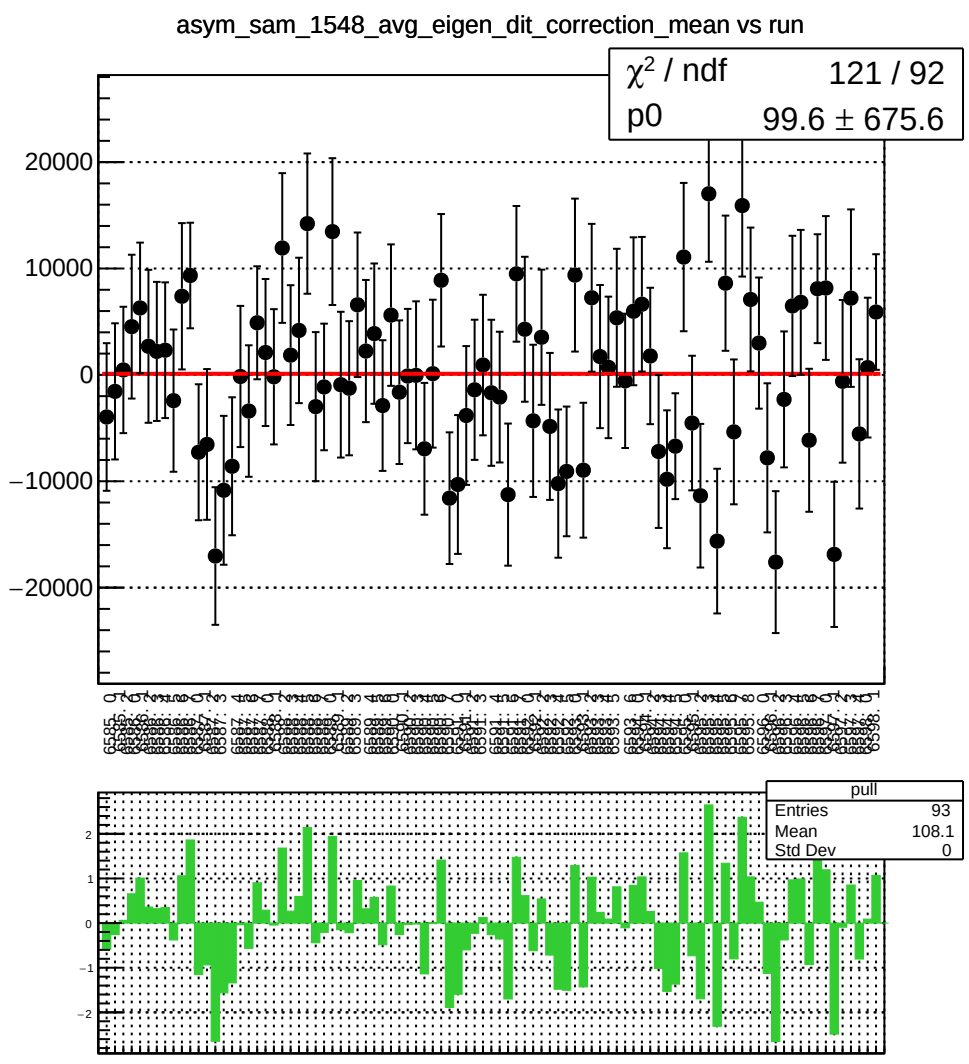

pull1D
Entries 93
Mean −0.008143
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

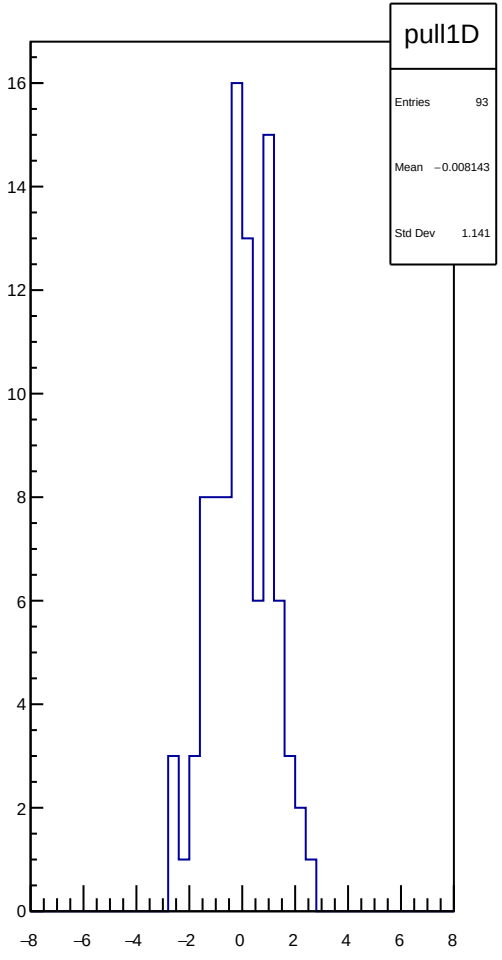

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 4290 / 92
p0 634.9 ± 0.4777
800
750
700
650
600

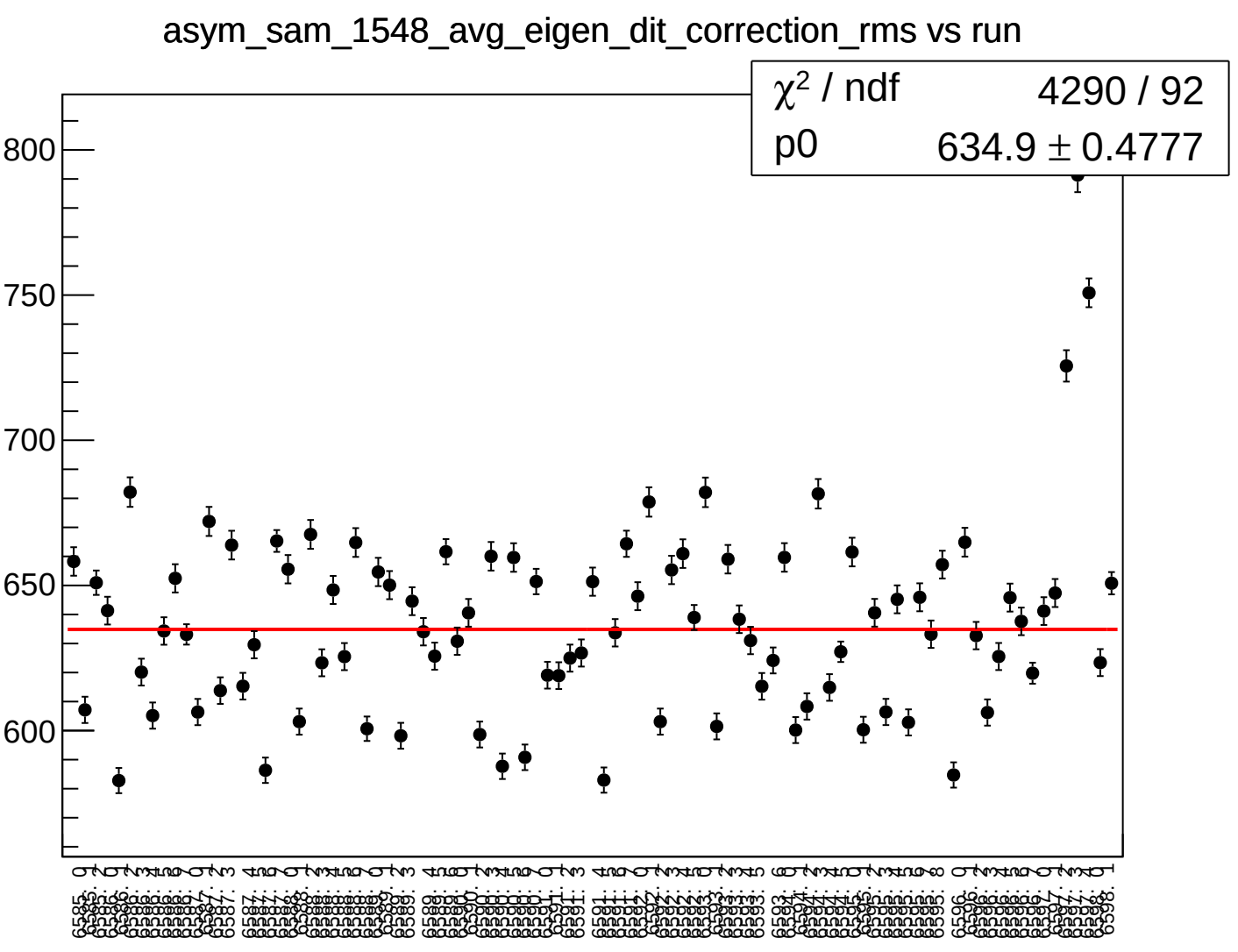

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 105.7 / 92
p0 56.89 ± 111.7
pull
Entries 93
Mean 492.3
Std Dev 0

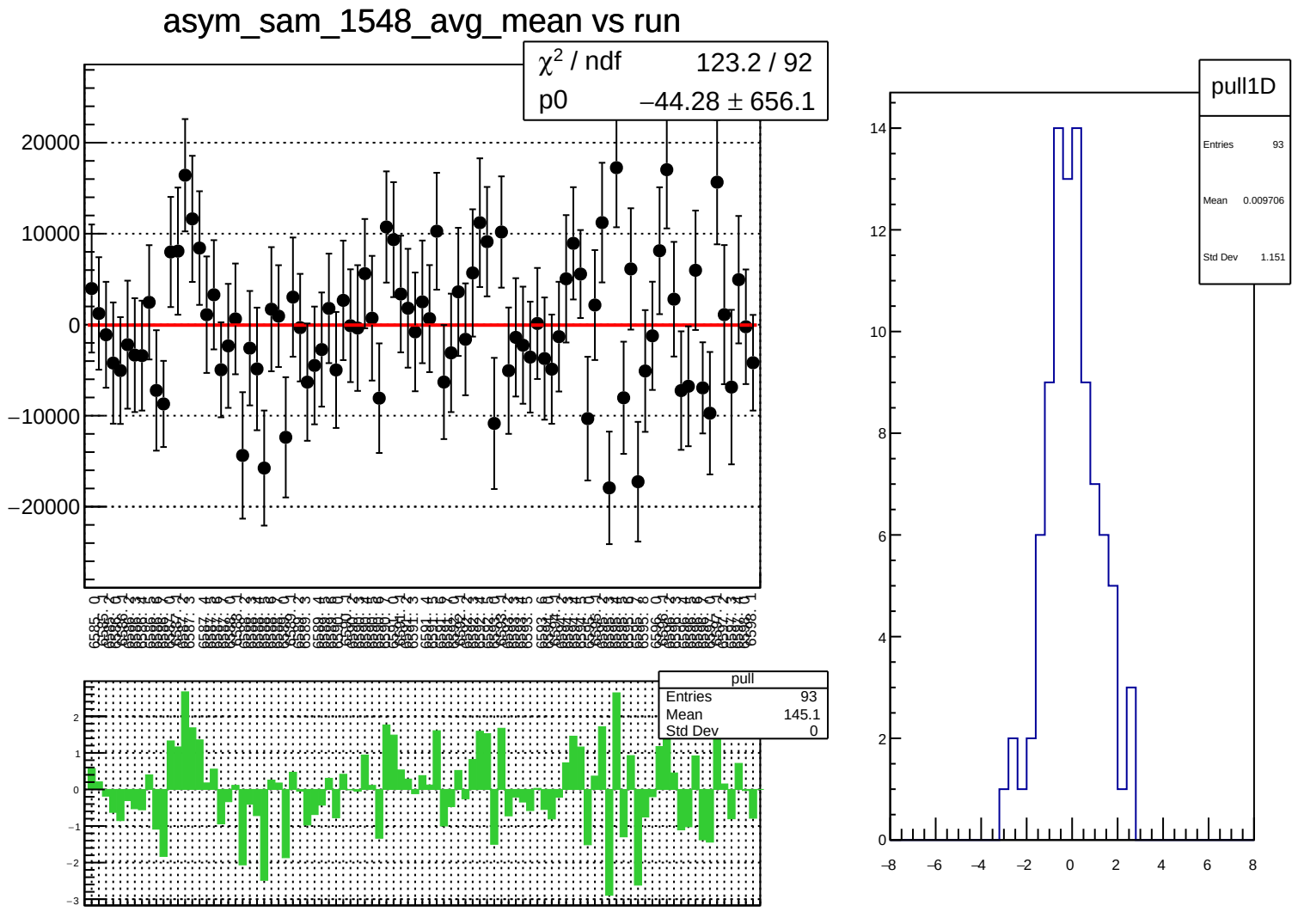

pull1D
Entries 93
Mean 0.005373
Std Dev 1.066

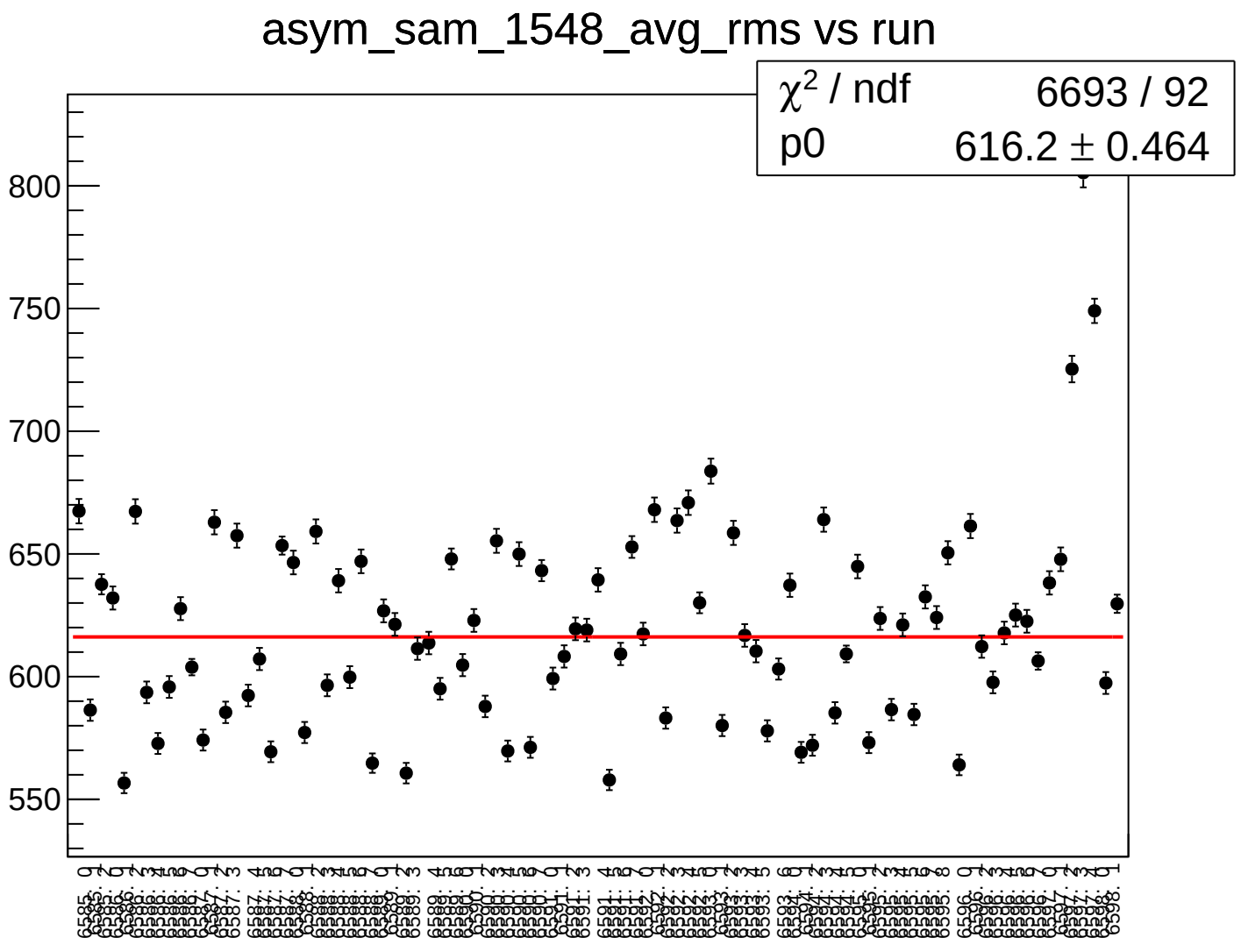

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.562e+04 / 92
p0 104.6 ± 0.07898
170
160
150
140
130
120
110
100
90

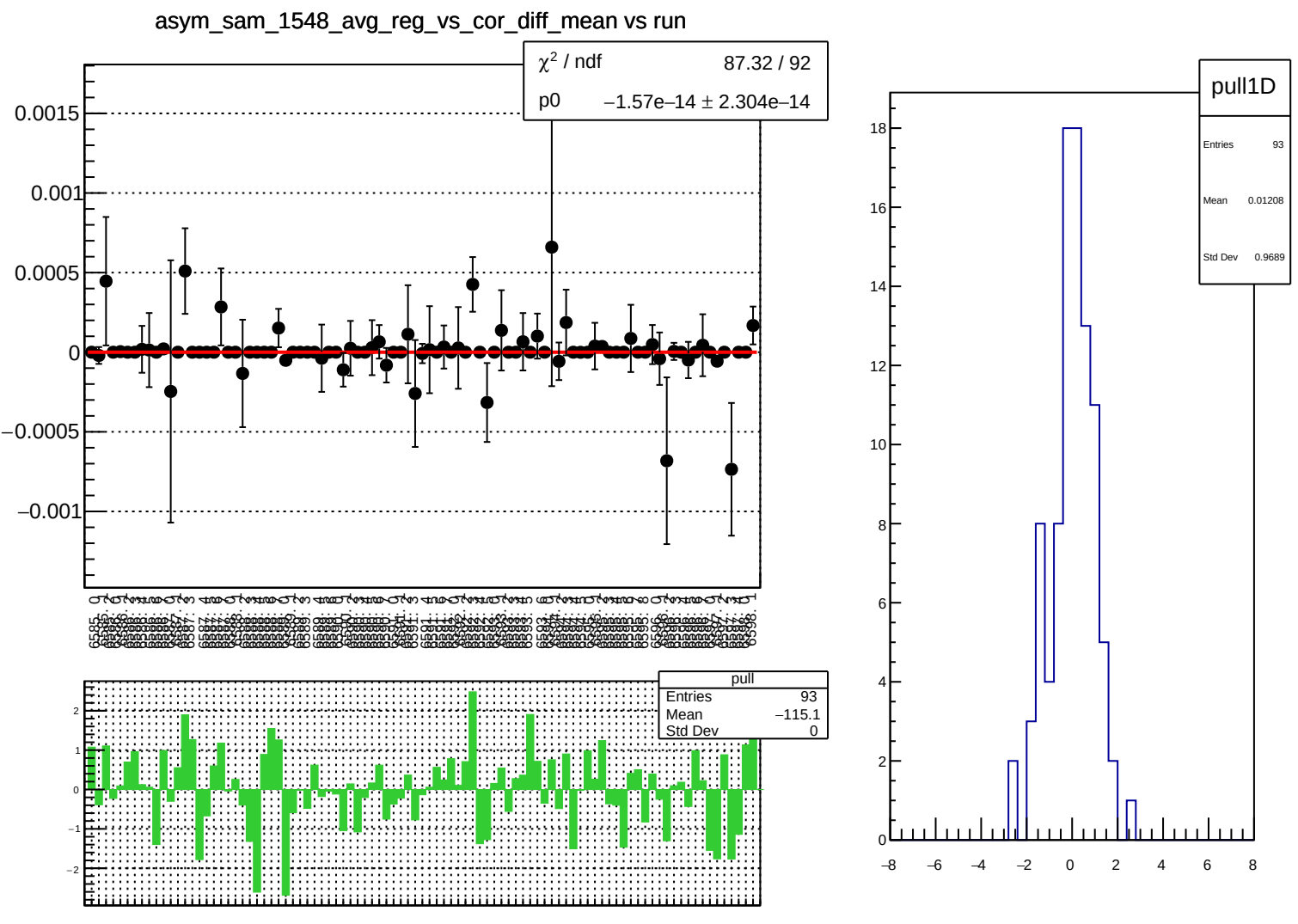

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 121 / 92
p0 99.6 ± 675.6
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 108.1
Std Dev 0
2
1
0
−1
−2

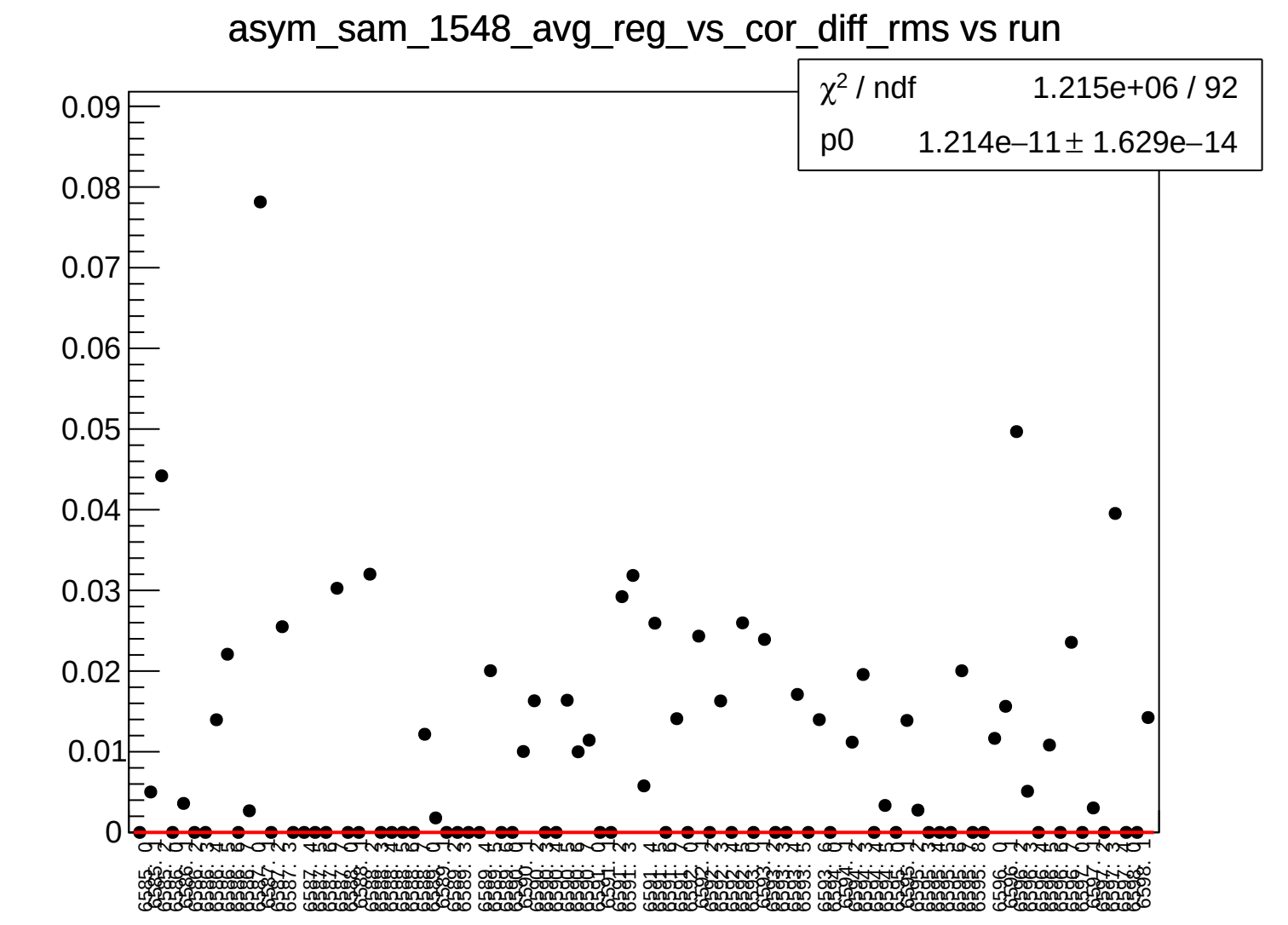

pull1D
Entries 93
Mean −0.008143
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

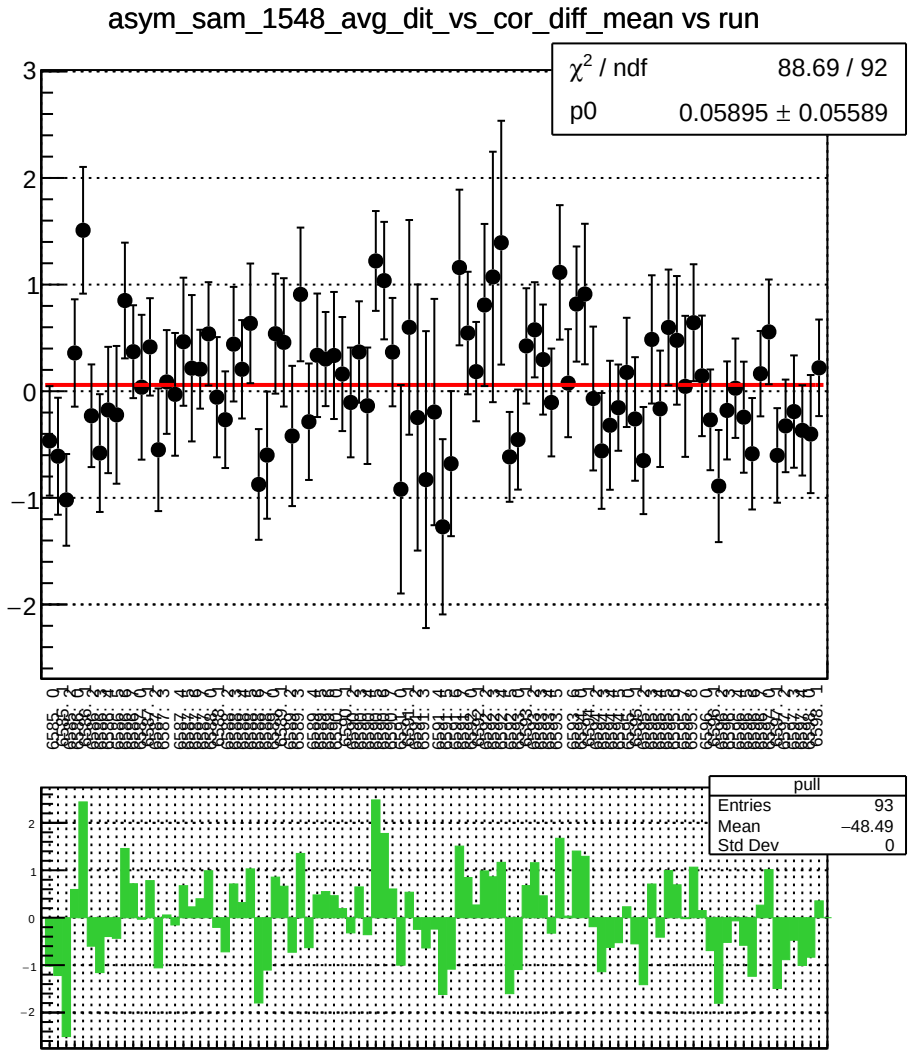

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 4290 / 92
p0 634.9 ± 0.4777
800
750
700
650
600

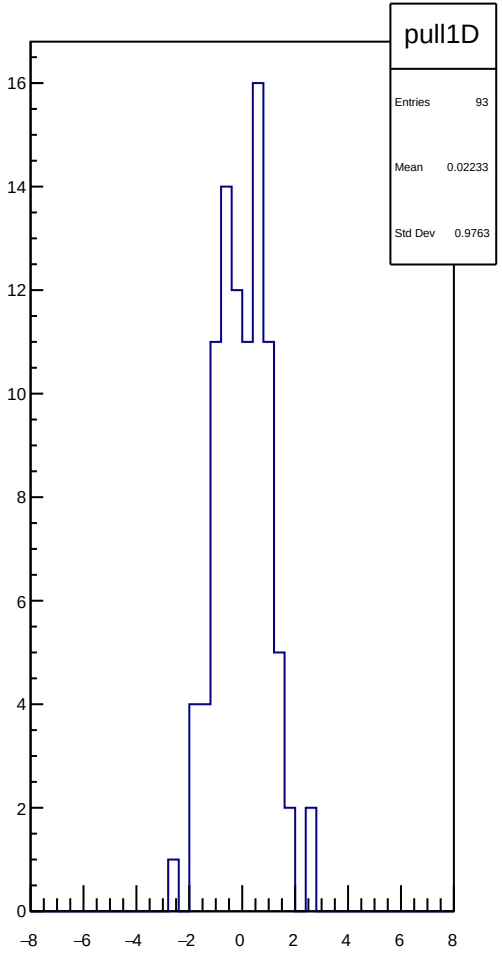

asym_sam_1548_avg_mean vs run
χ² / ndf 123.2 / 92
p0 −44.28 ± 656.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 145.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.009706
Std Dev 1.151
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

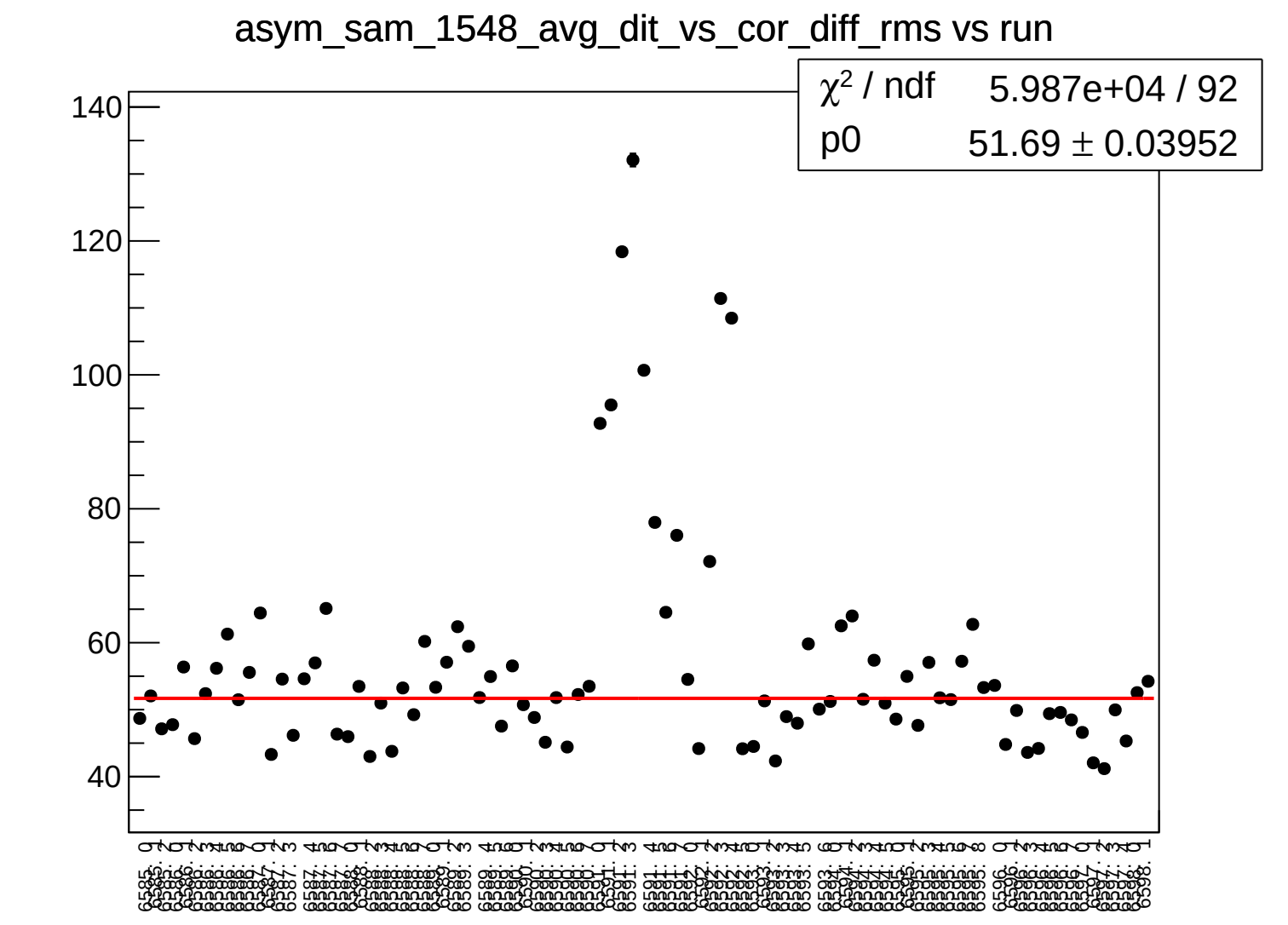

asym_sam_1548_avg_rms vs run
χ^2 / ndf 6693 / 92
p0 616.2 ± 0.464
800
750
700
650
600
550

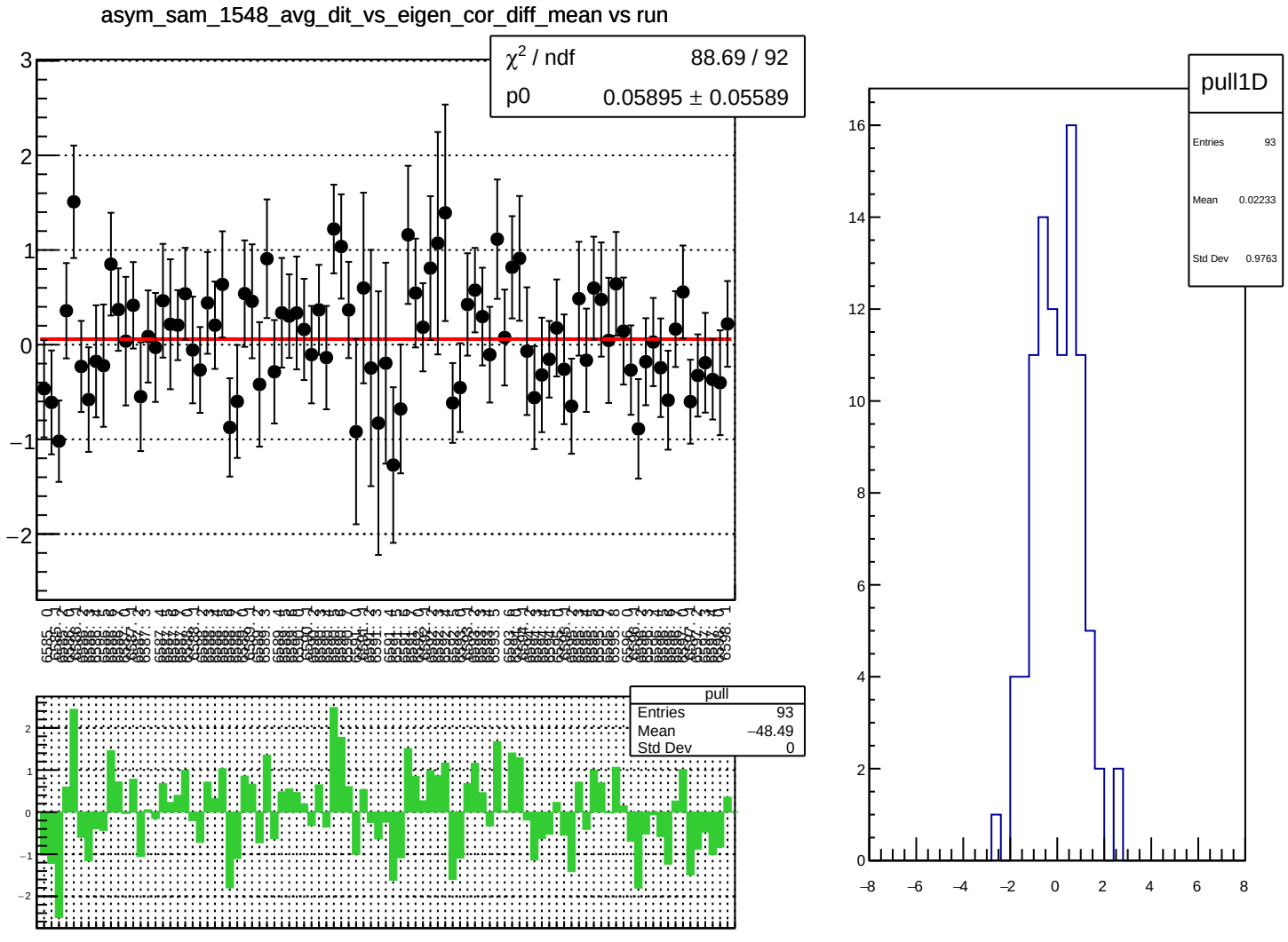

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.32 / 92
p0 −1.57e−14 ± 2.304e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean −115.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01208
Std Dev 0.9689
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

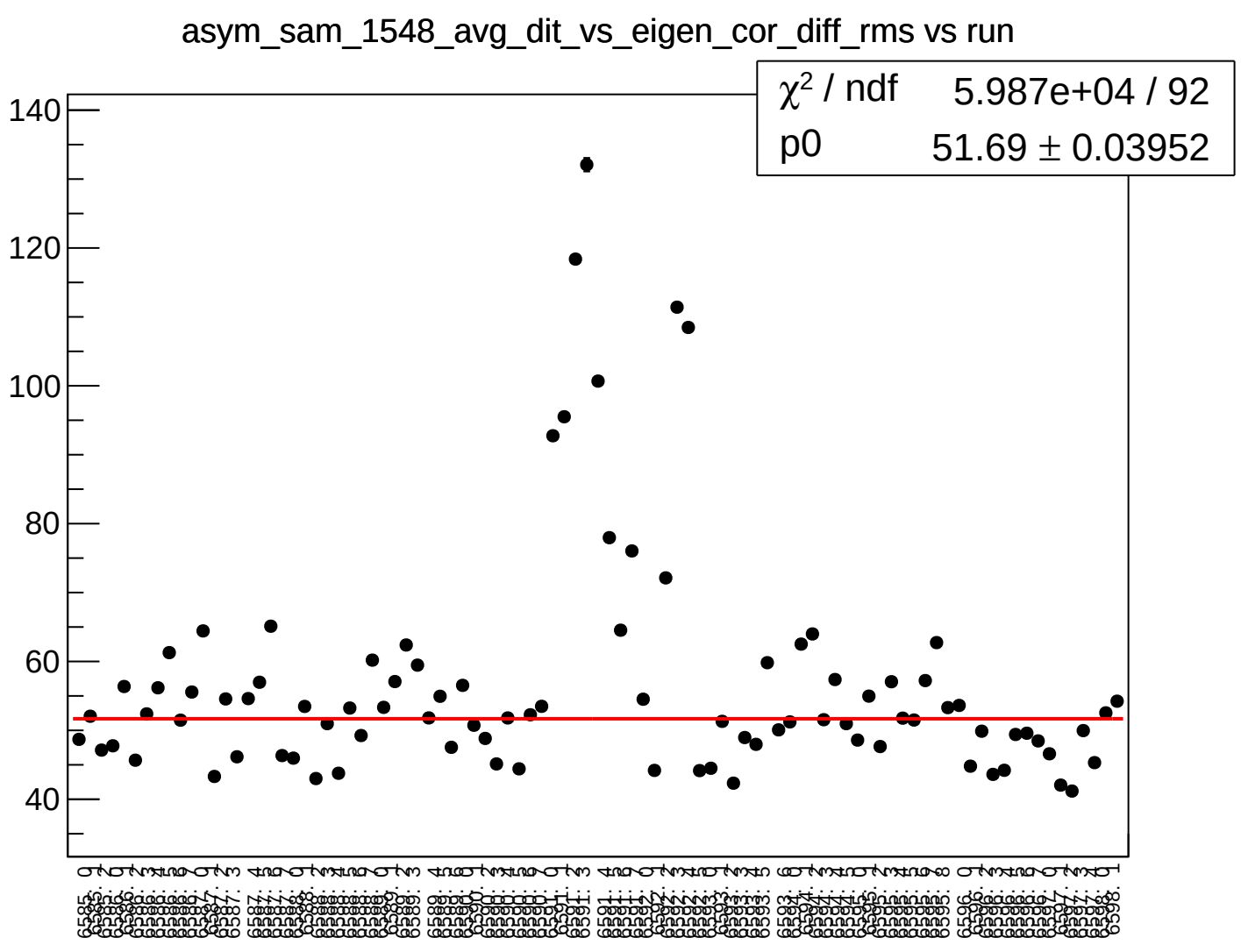

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.215e+06 / 92
p0 1.214e−11 ± 1.629e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

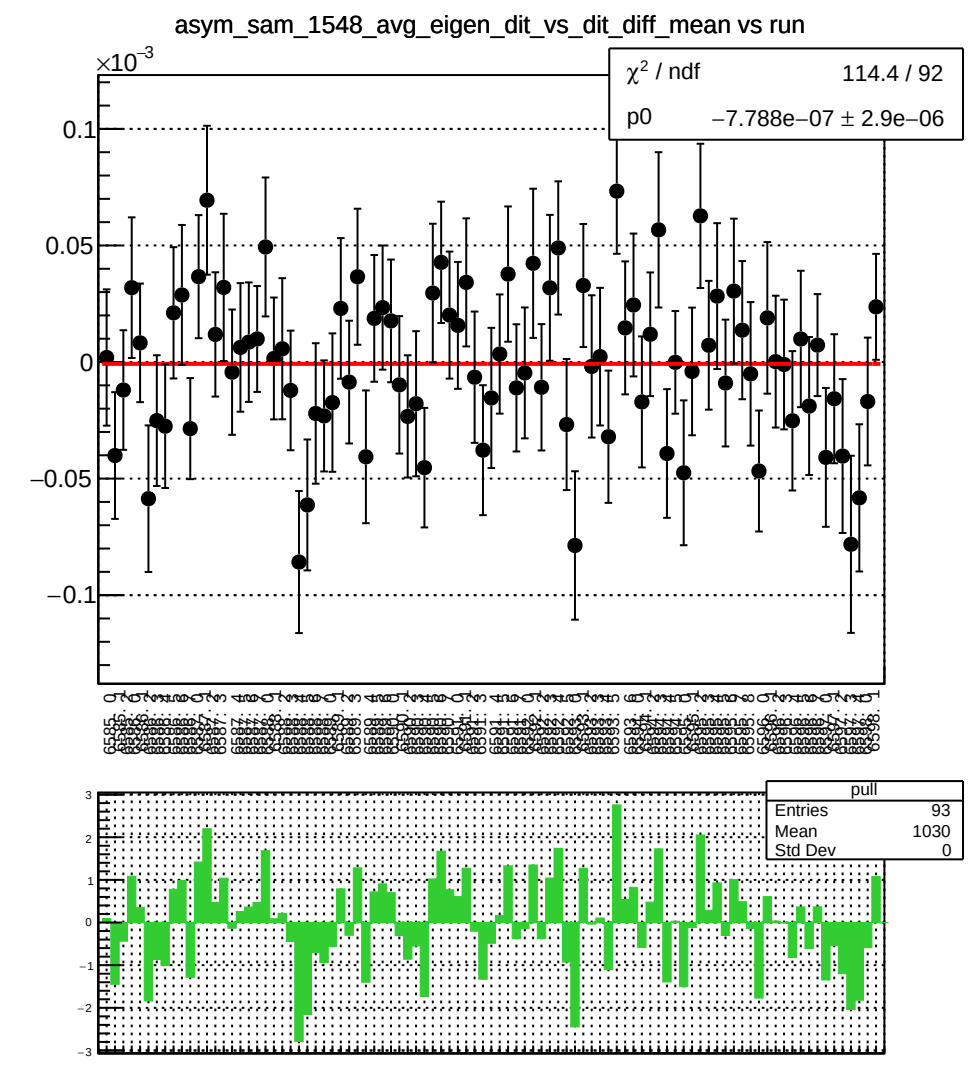

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.69 / 92
p0 0.05895 ± 0.05589
pull
Entries 93
Mean −48.49
Std Dev 0

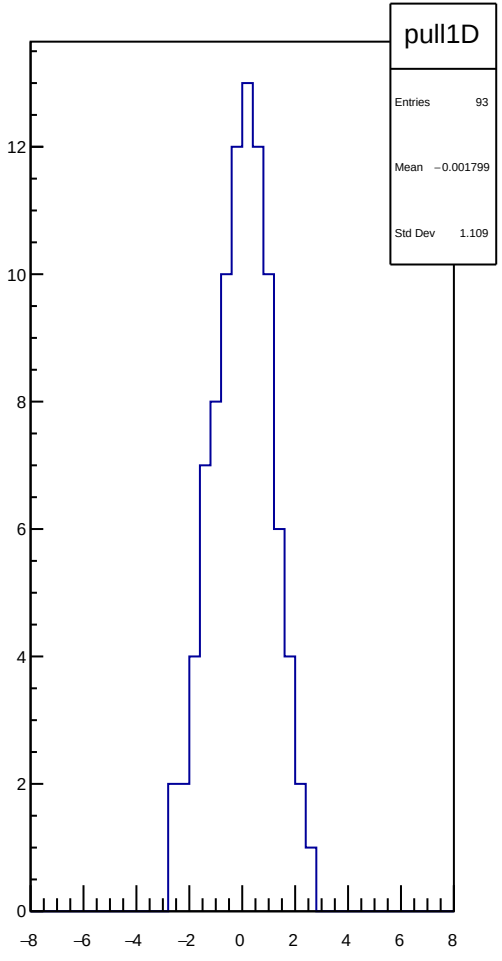

pull1D
Entries 93
Mean 0.02233
Std Dev 0.9763

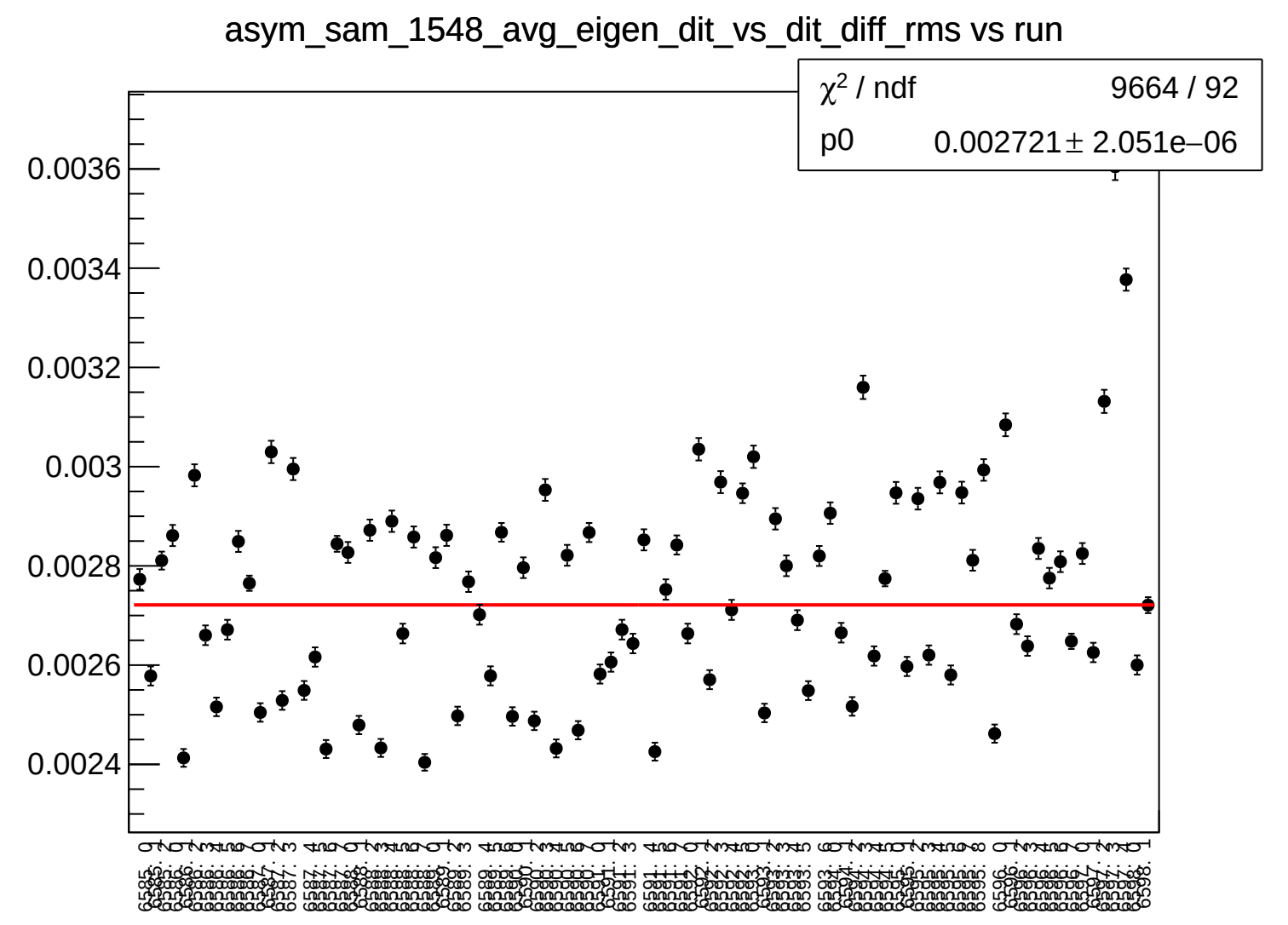

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.987e+04 / 92
p0 51.69 ± 0.03952
140
120
100
80
60
40

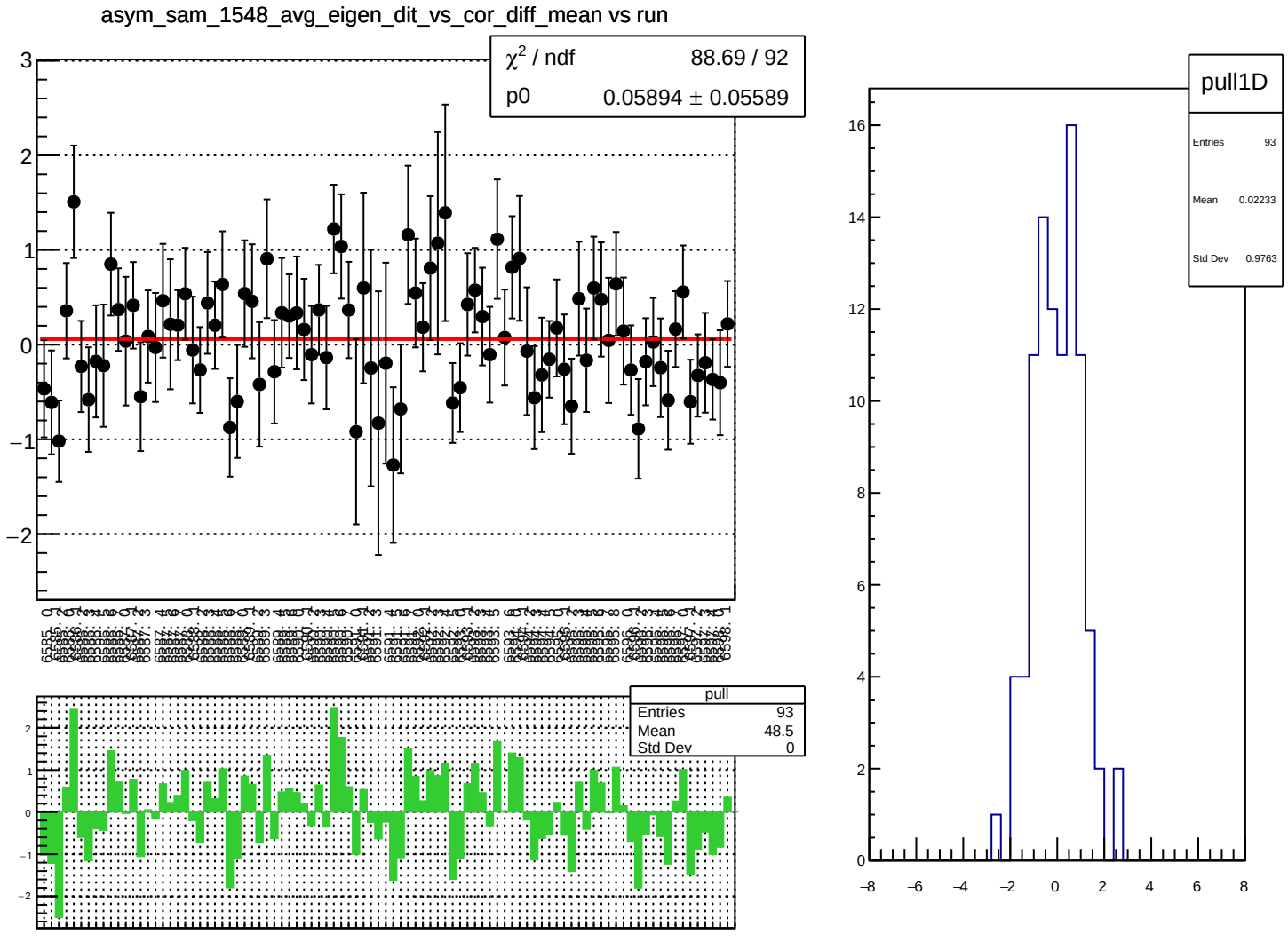

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.69 / 92
p0 0.05895 ± 0.05589
pull
Entries 93
Mean −48.49
Std Dev 0
pull1D
Entries 93
Mean 0.02233
Std Dev 0.9763

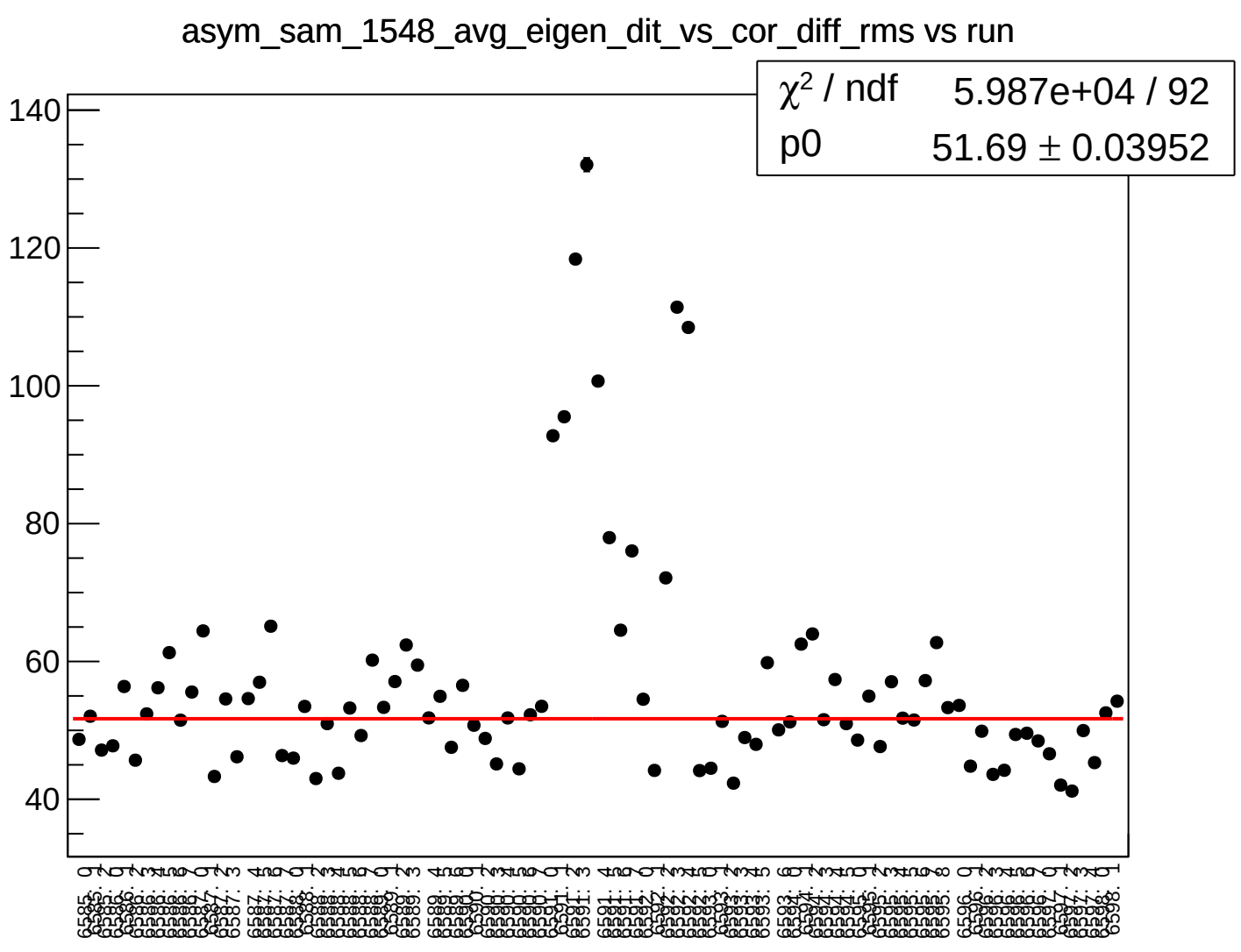

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.987e+04 / 92
p0 51.69 ± 0.03952
140
120
100
80
60
40

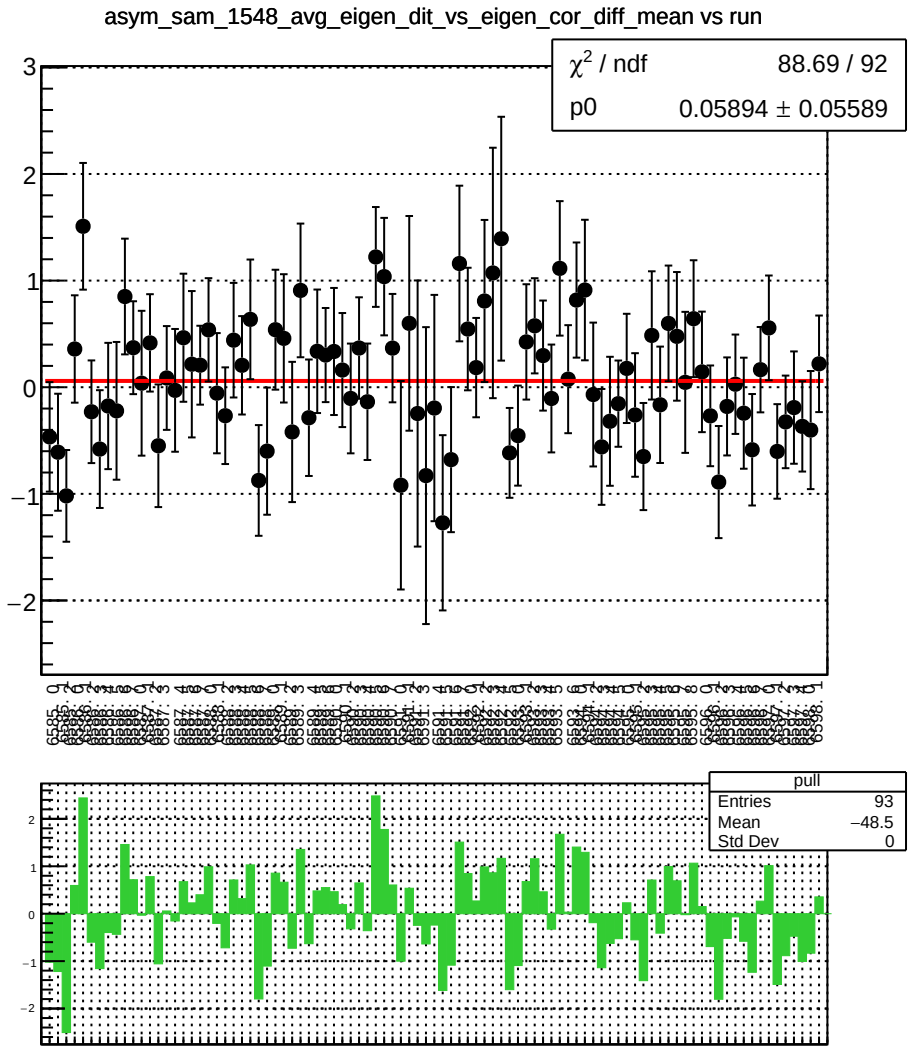

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 114.4 / 92
p0 −7.788e−07 ± 2.9e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 1030
Std Dev 0
3
2
1
0
−1
−2
−3

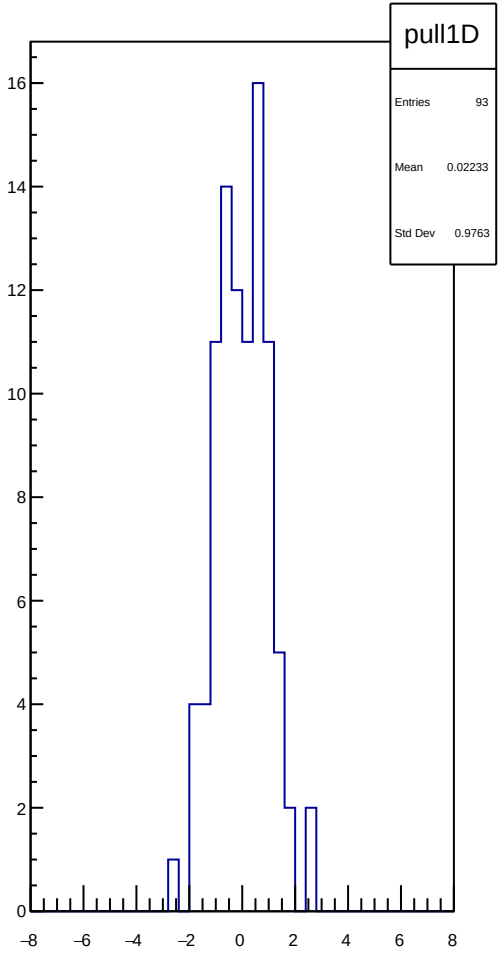

pull1D
Entries 93
Mean −0.001799
Std Dev 1.109
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

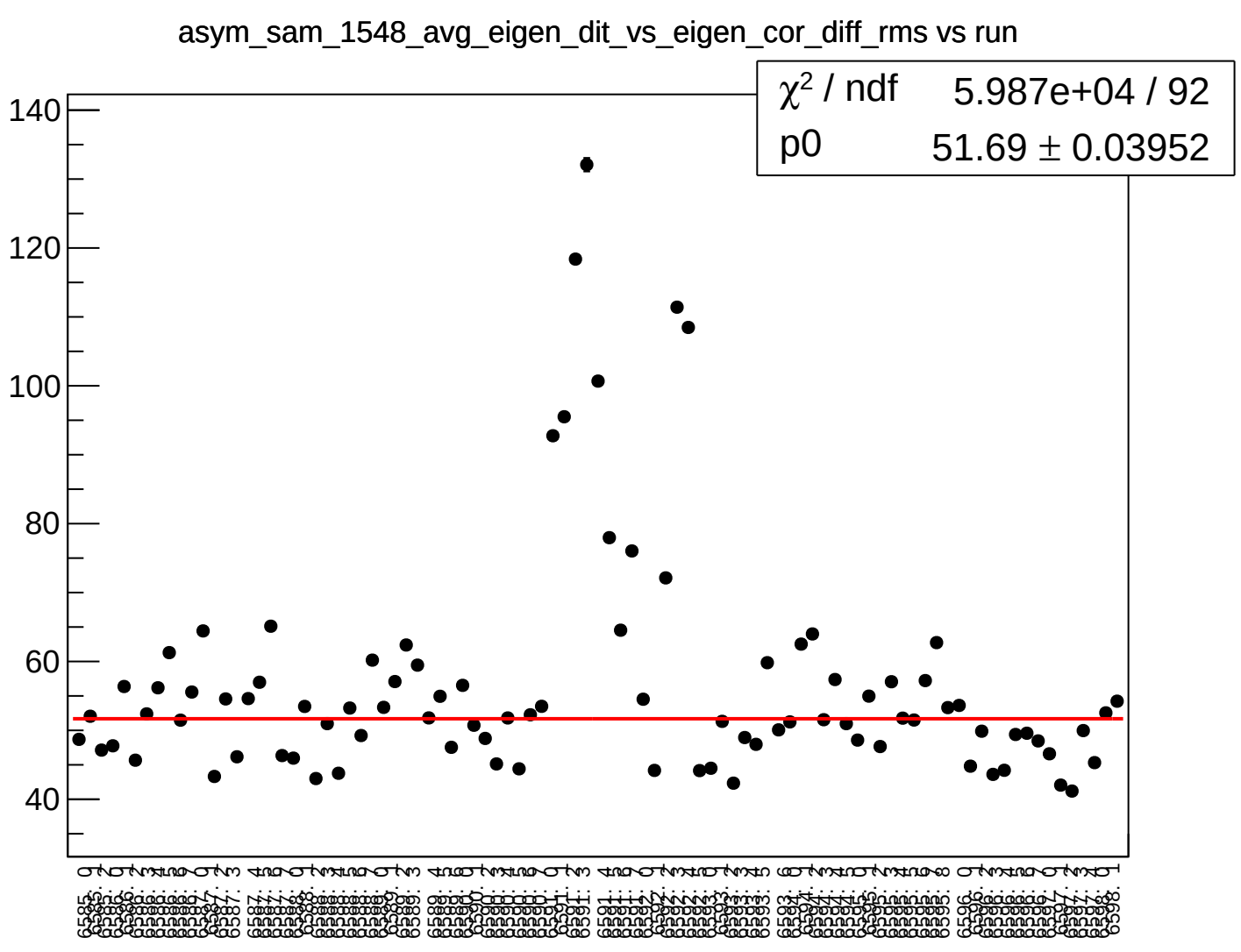

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9664 / 92
p0 0.002721 ± 2.051e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

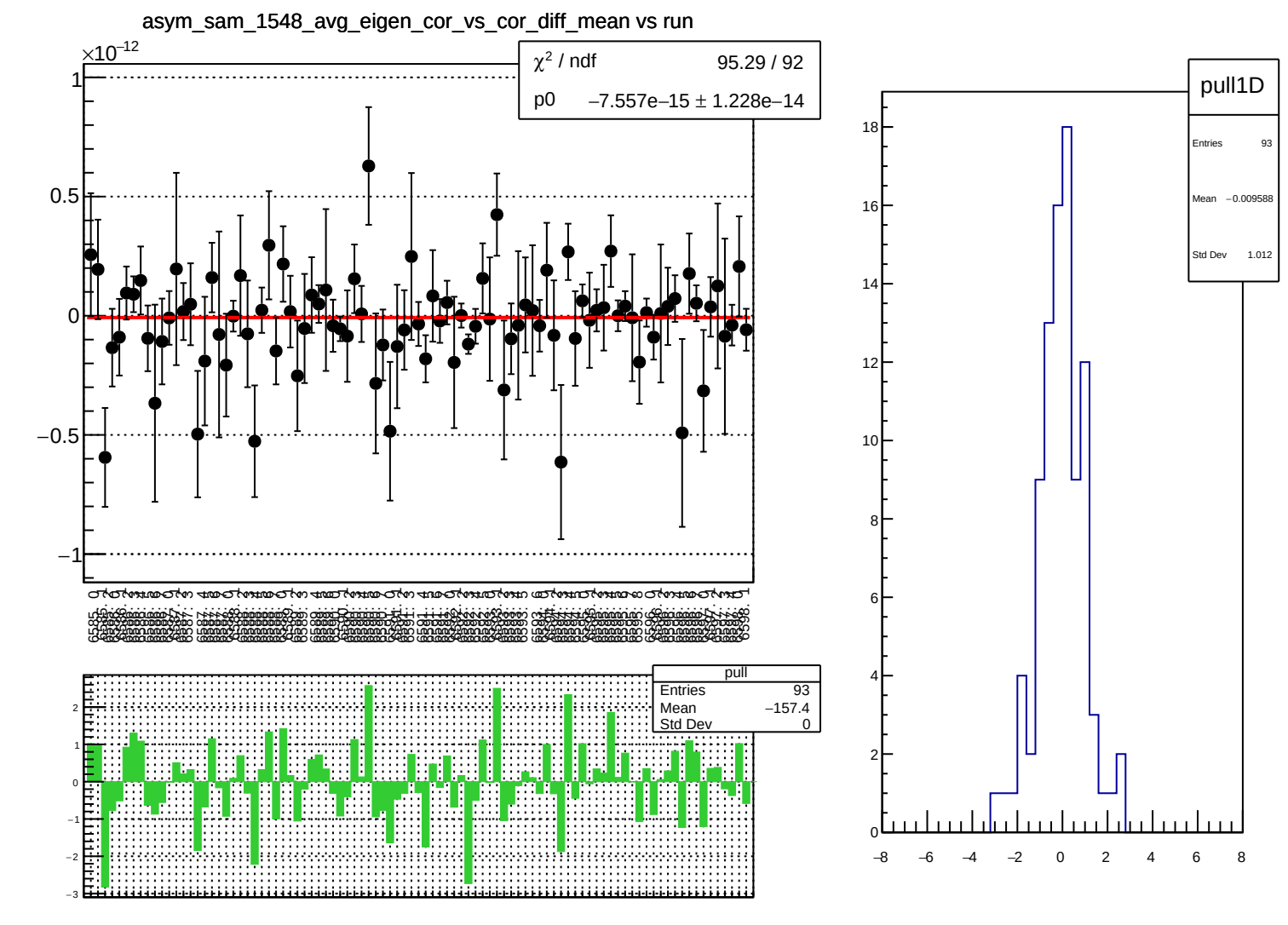

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.69 / 92
p0 0.05894 ± 0.05589
pull
Entries 93
Mean −48.5
Std Dev 0
pull1D
Entries 93
Mean 0.02233
Std Dev 0.9763

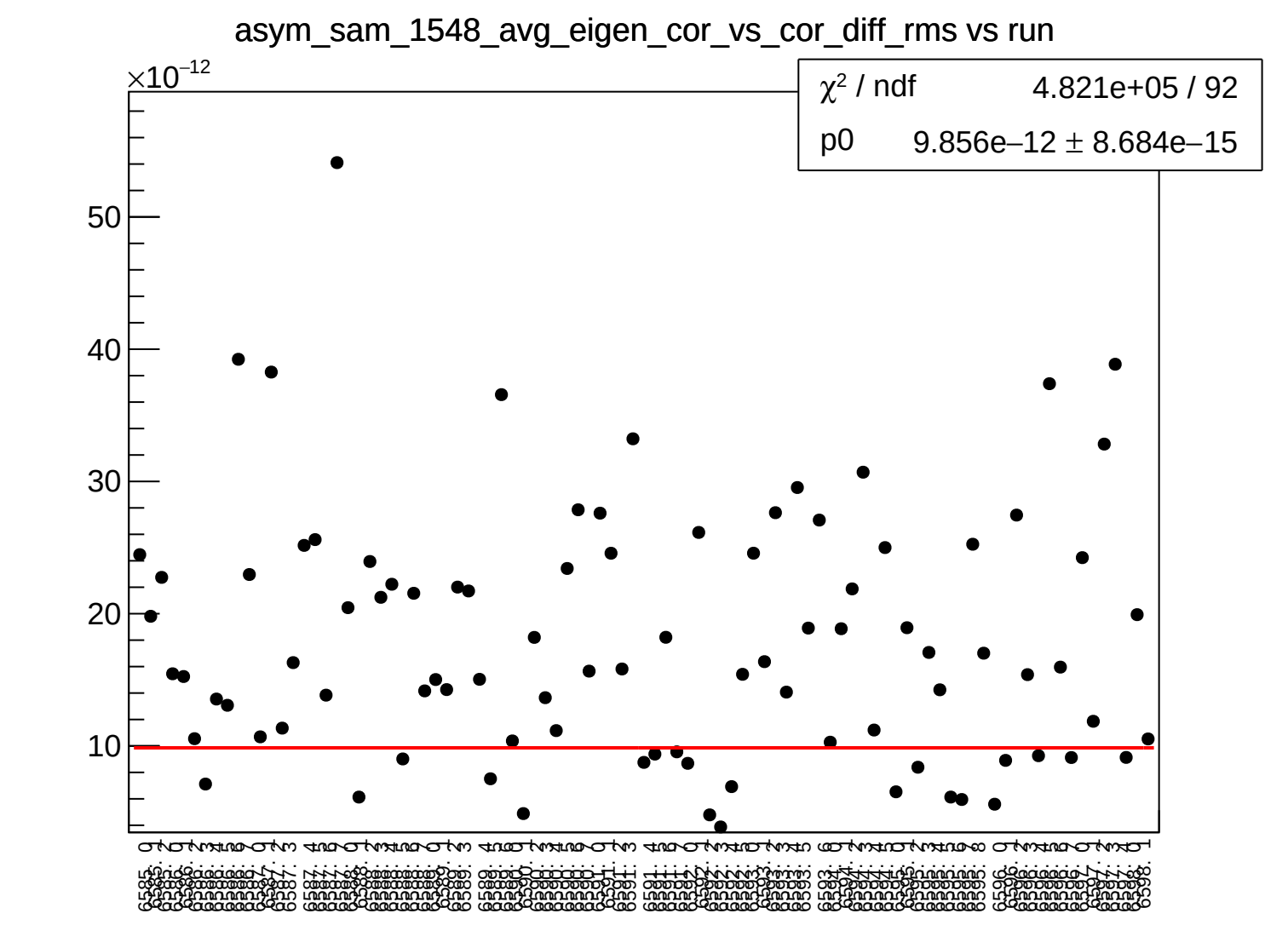

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.987e+04 / 92
p0 51.69 ± 0.03952
140
120
100
80
60
40

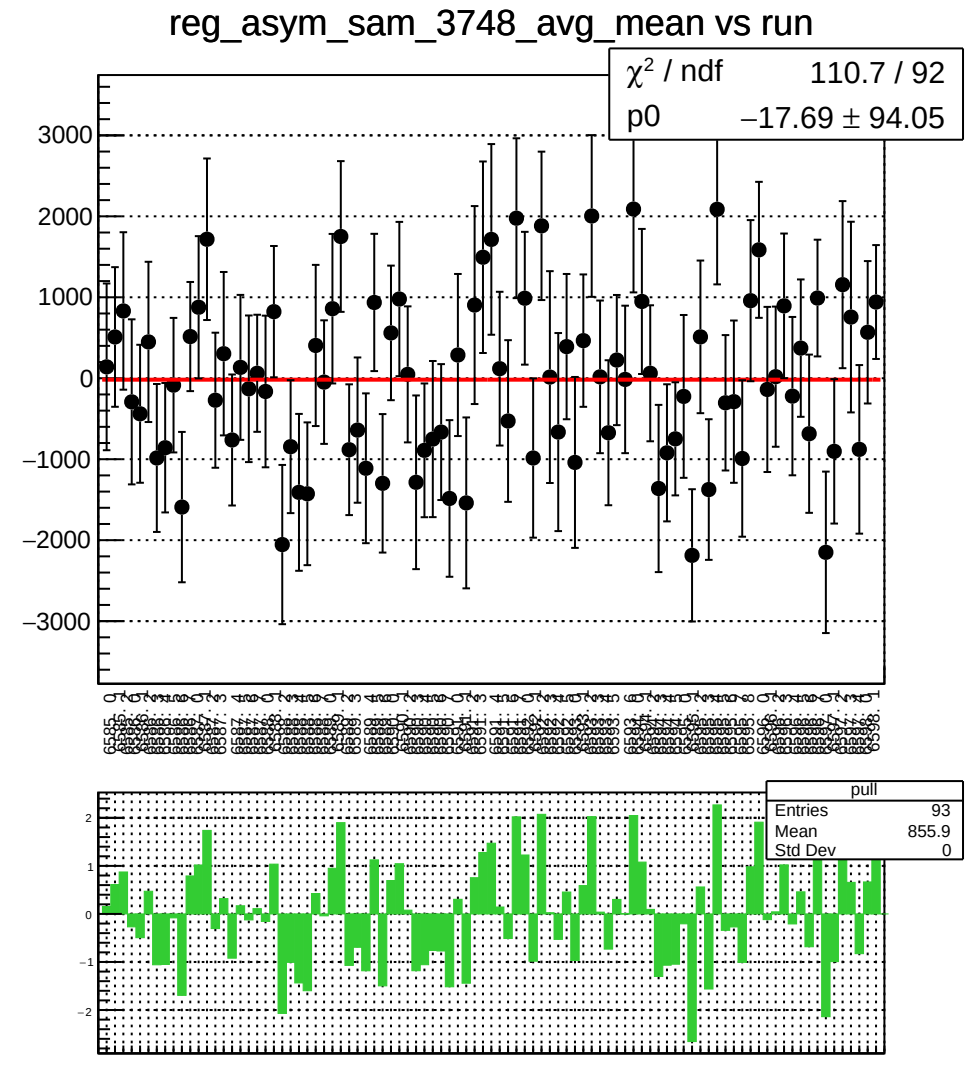

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.69 / 92
p0 0.05894 ± 0.05589
pull
Entries 93
Mean −48.5
Std Dev 0

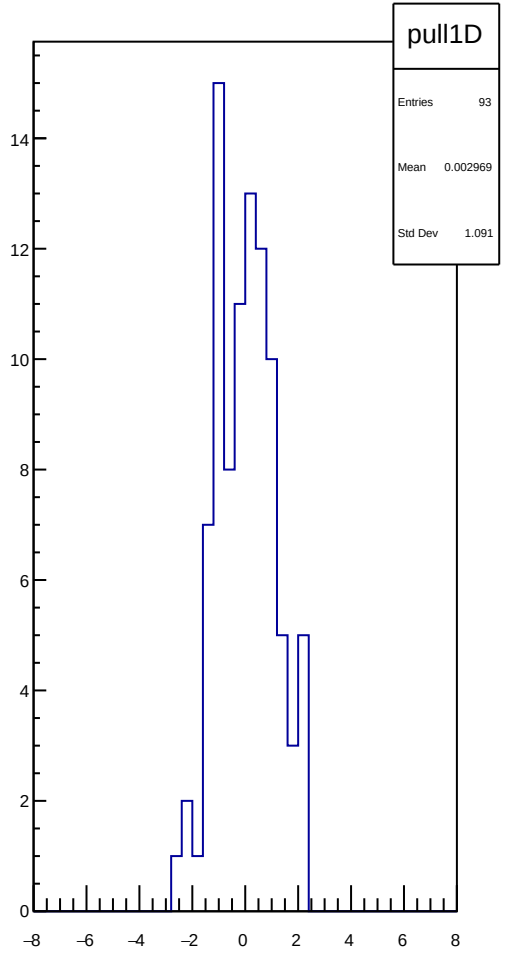

pull1D
Entries 93
Mean 0.02233
Std Dev 0.9763

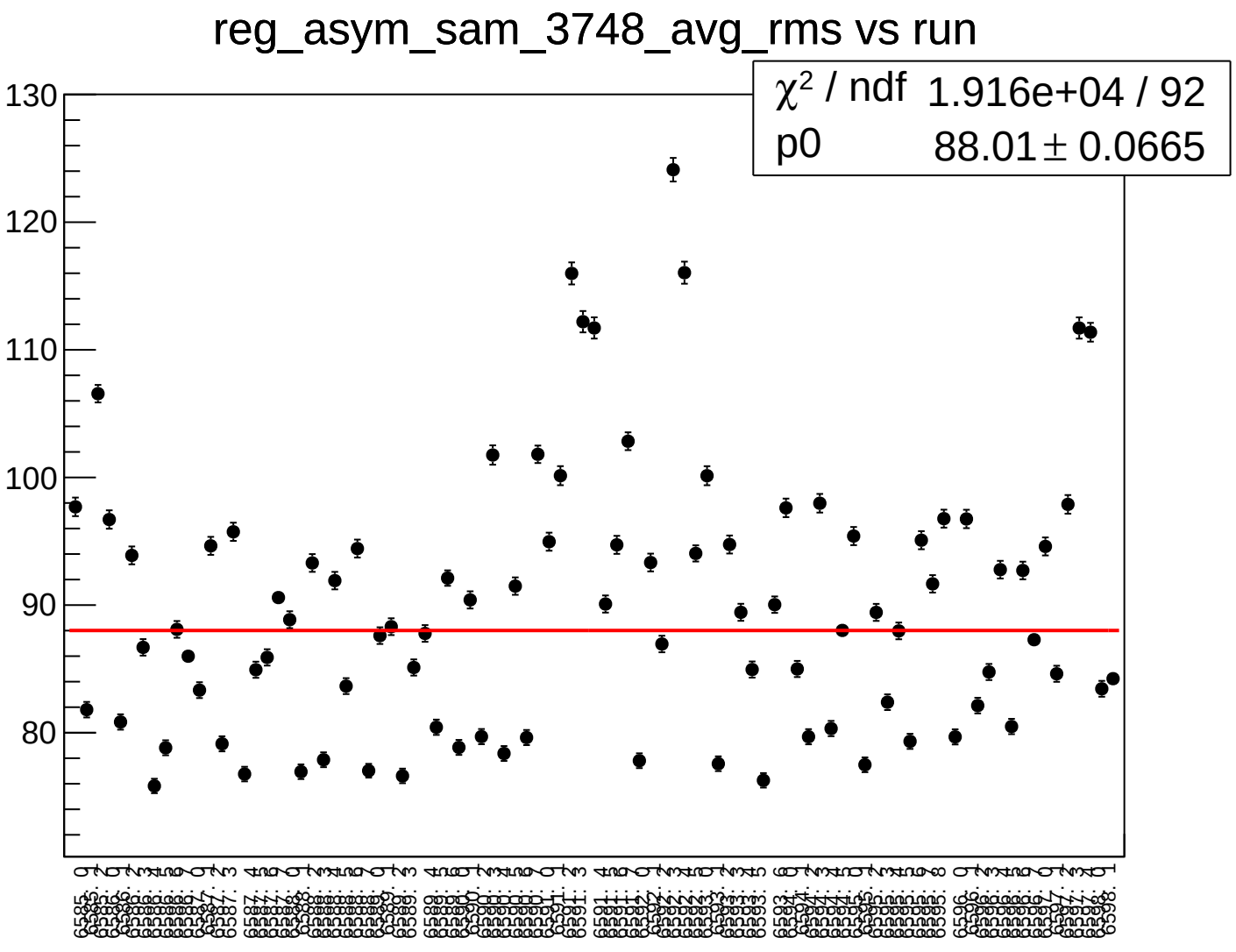

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.987e+04 / 92
p0 51.69 ± 0.03952
140
120
100
80
60
40

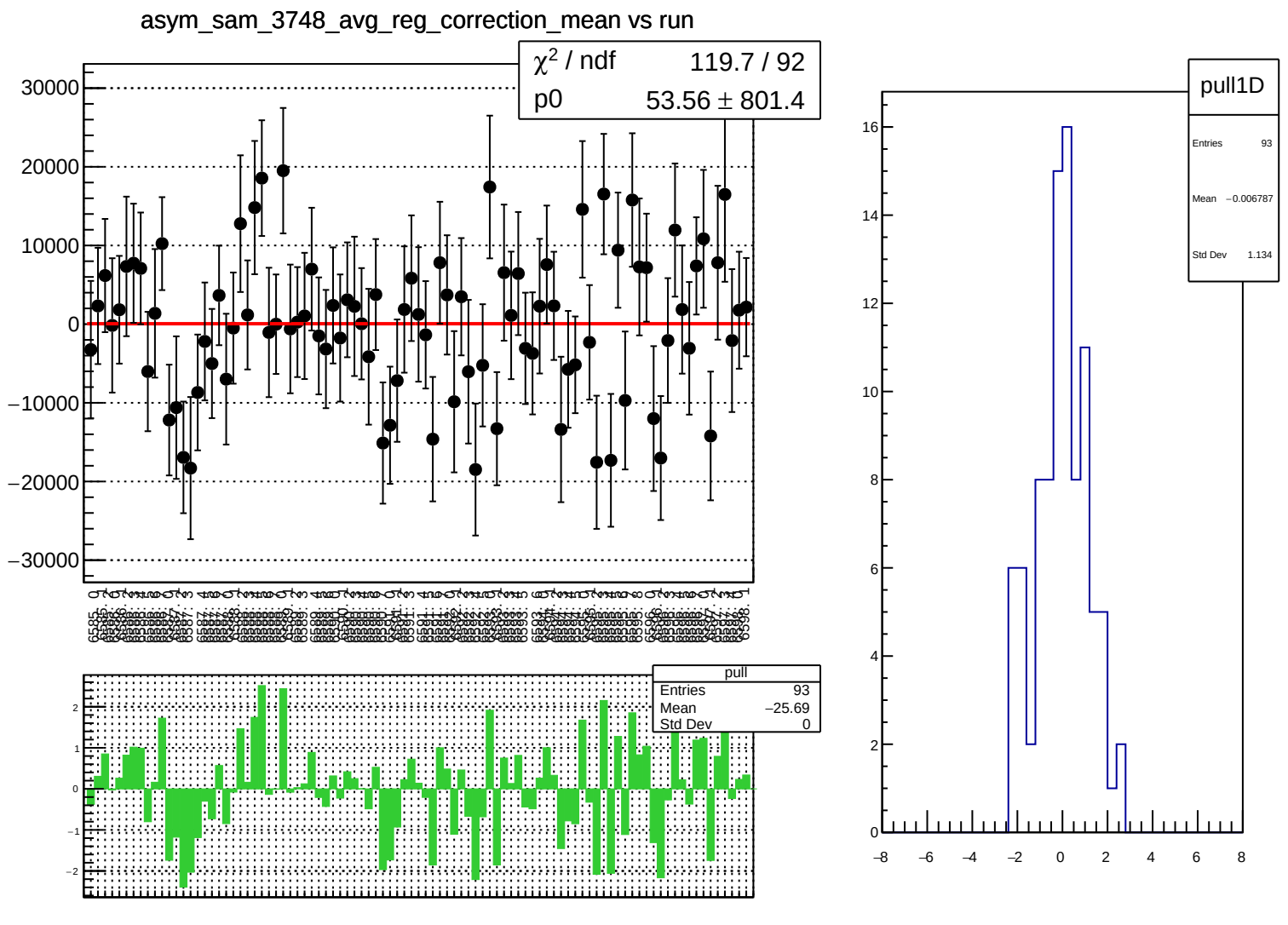

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 95.29 / 92
p0 −7.557e−15 ± 1.228e−14
pull
Entries 93
Mean −157.4
Std Dev 0
pull1D
Entries 93
Mean −0.009588
Std Dev 1.012

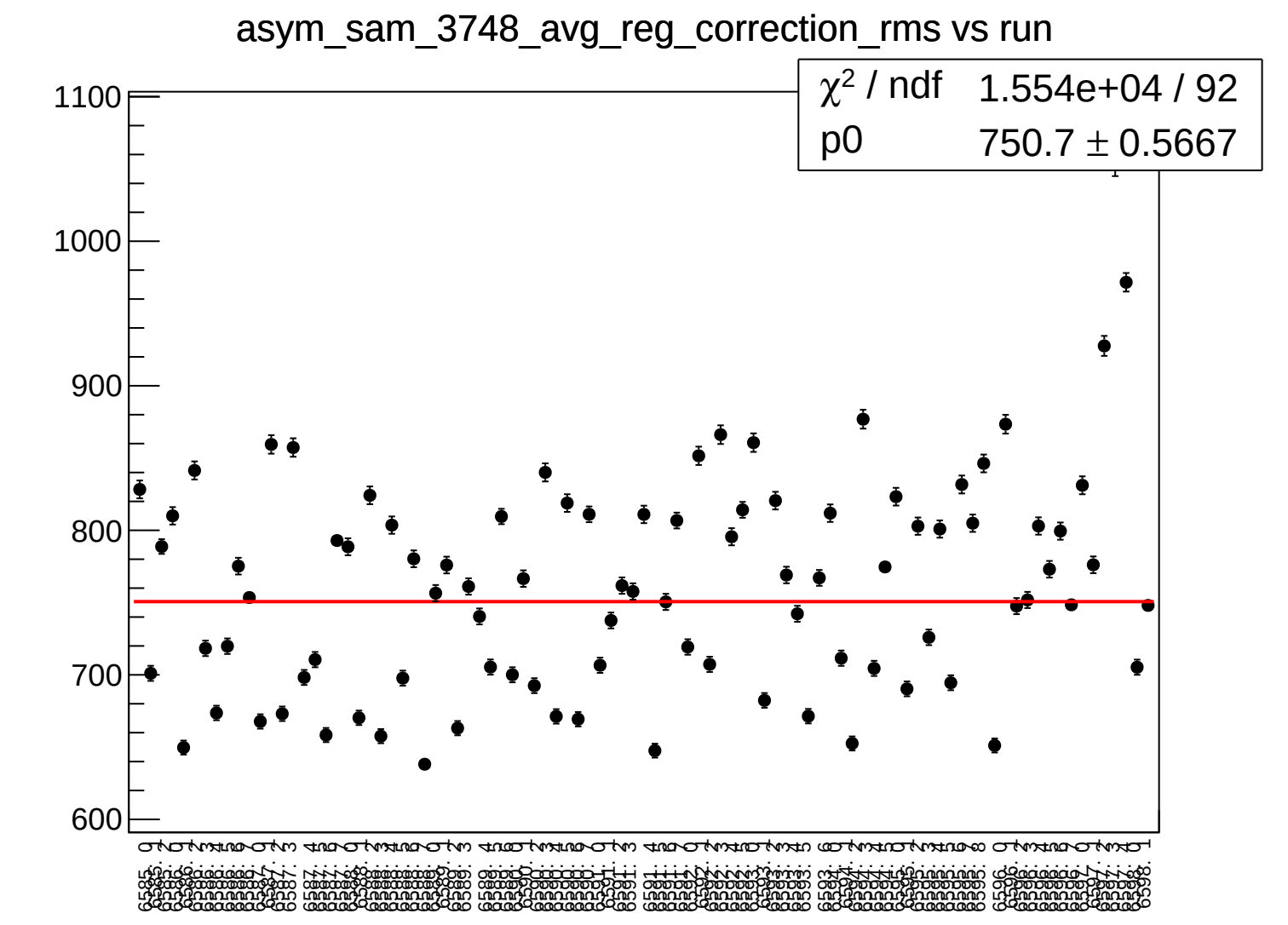

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.821e+05 / 92
p0 9.856e−12 ± 8.684e−15
50
40
30
20
10

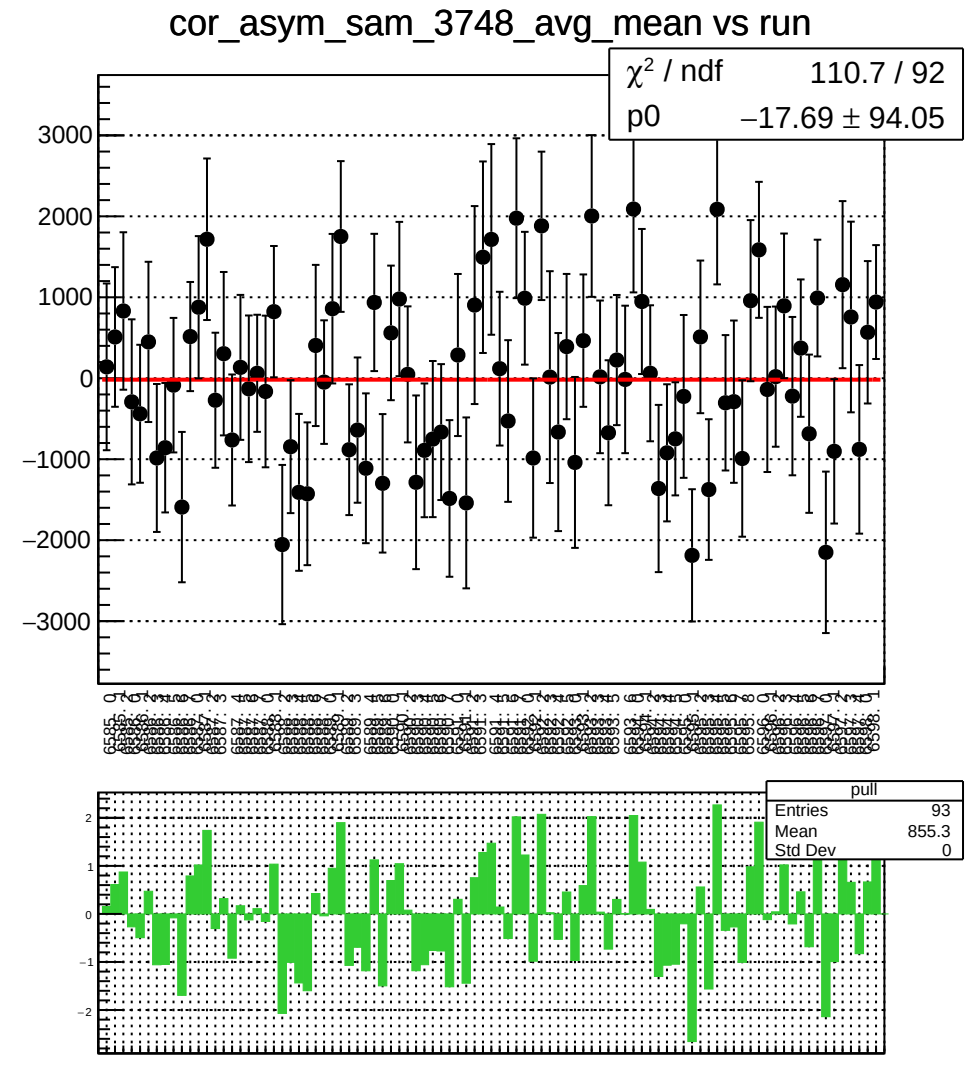

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 110.7 / 92
p0 −17.69 ± 94.05
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 855.9
Std Dev 0
2
1
0
−1
−2

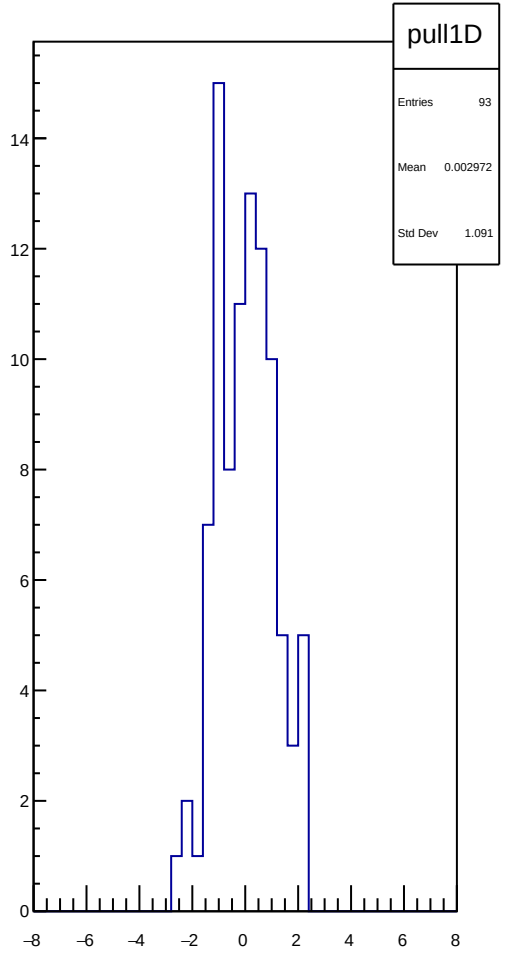

pull1D
Entries 93
Mean 0.002969
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

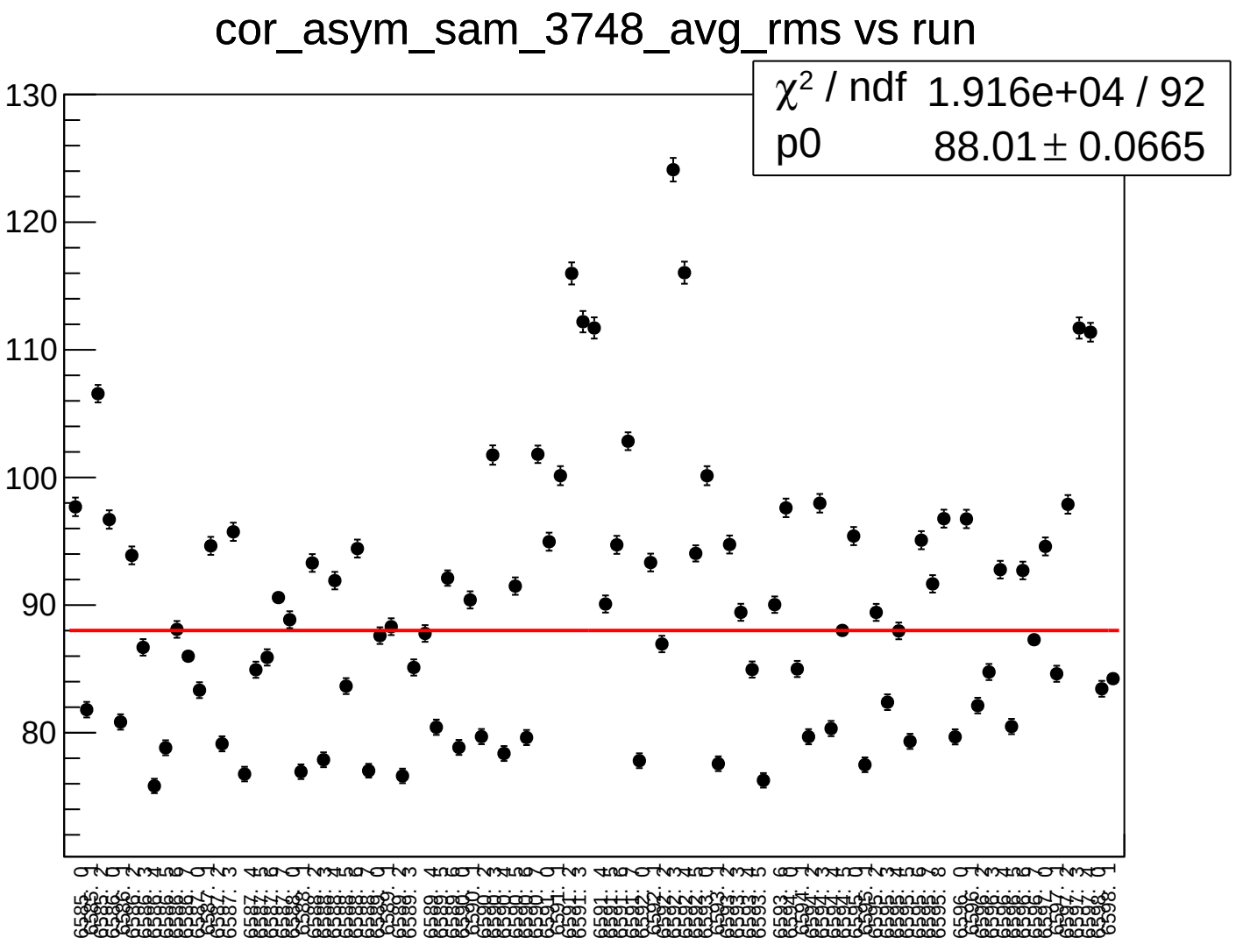

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1.916e+04 / 92
p0 88.01 ± 0.0665
130
120
110
100
90
80

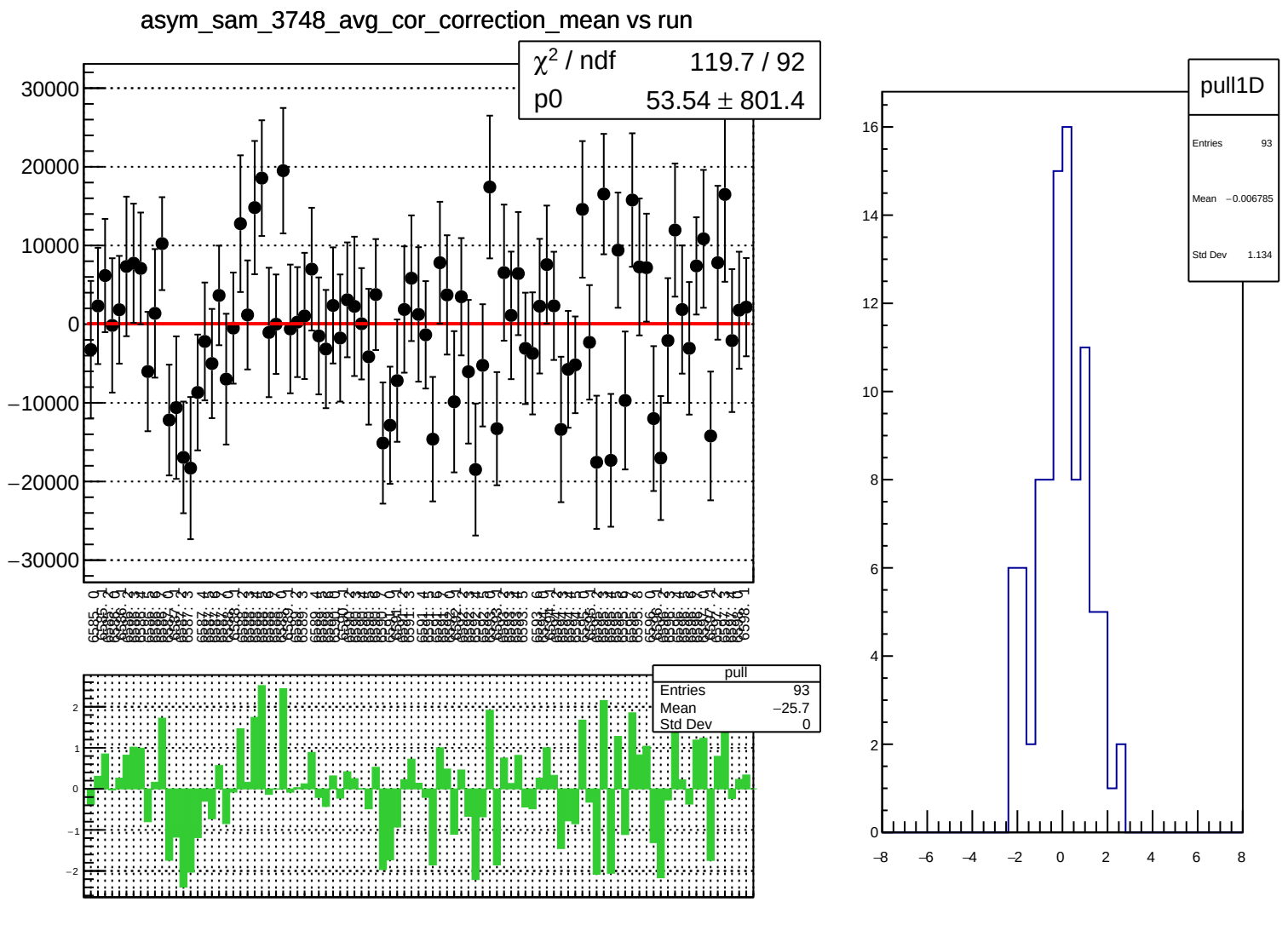

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 119.7 / 92
p0 53.56 ± 801.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −25.69
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006787
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

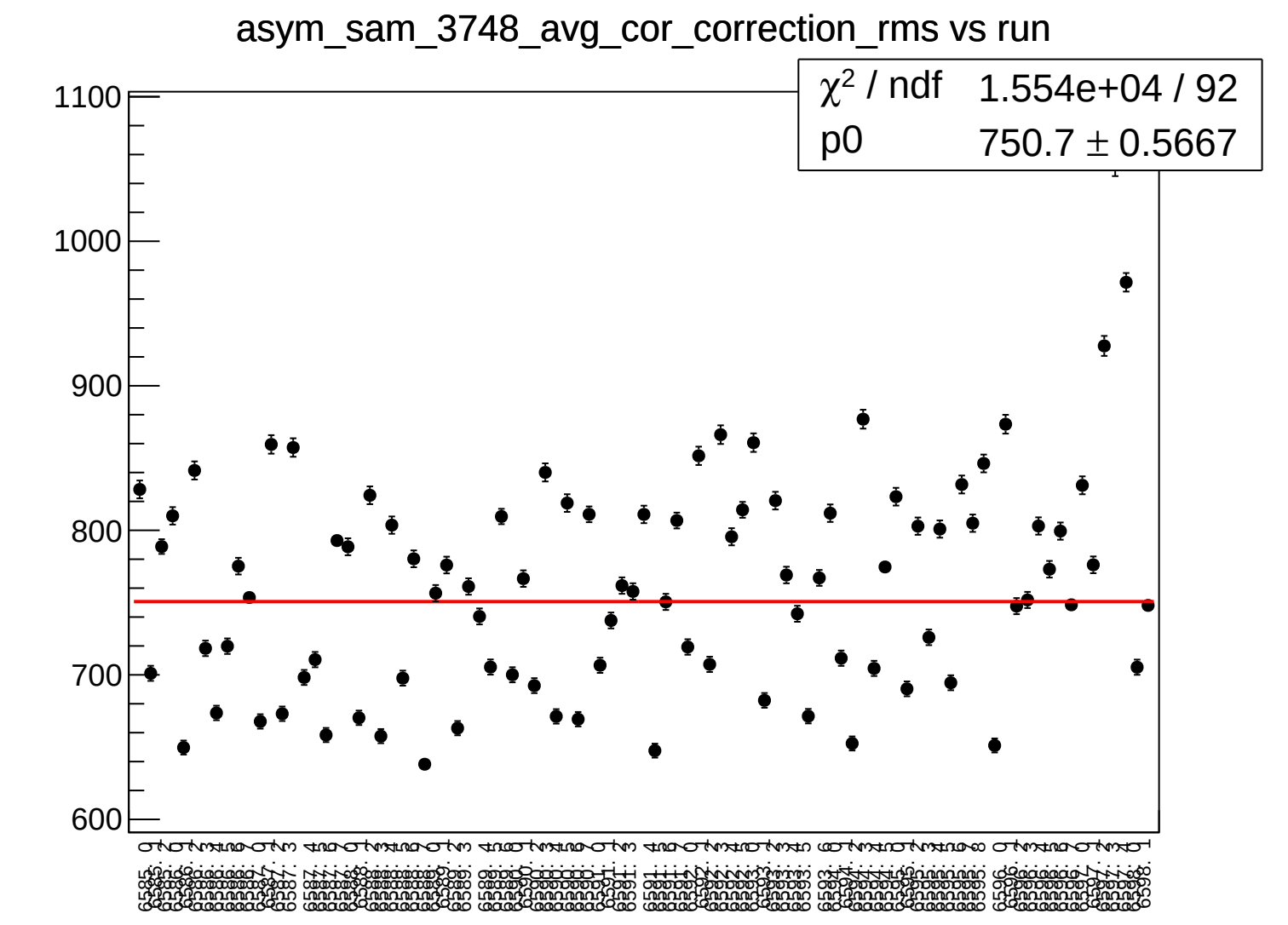

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.554e+04 / 92
p0 750.7 ± 0.5667
1100
1000
900
800
700
600

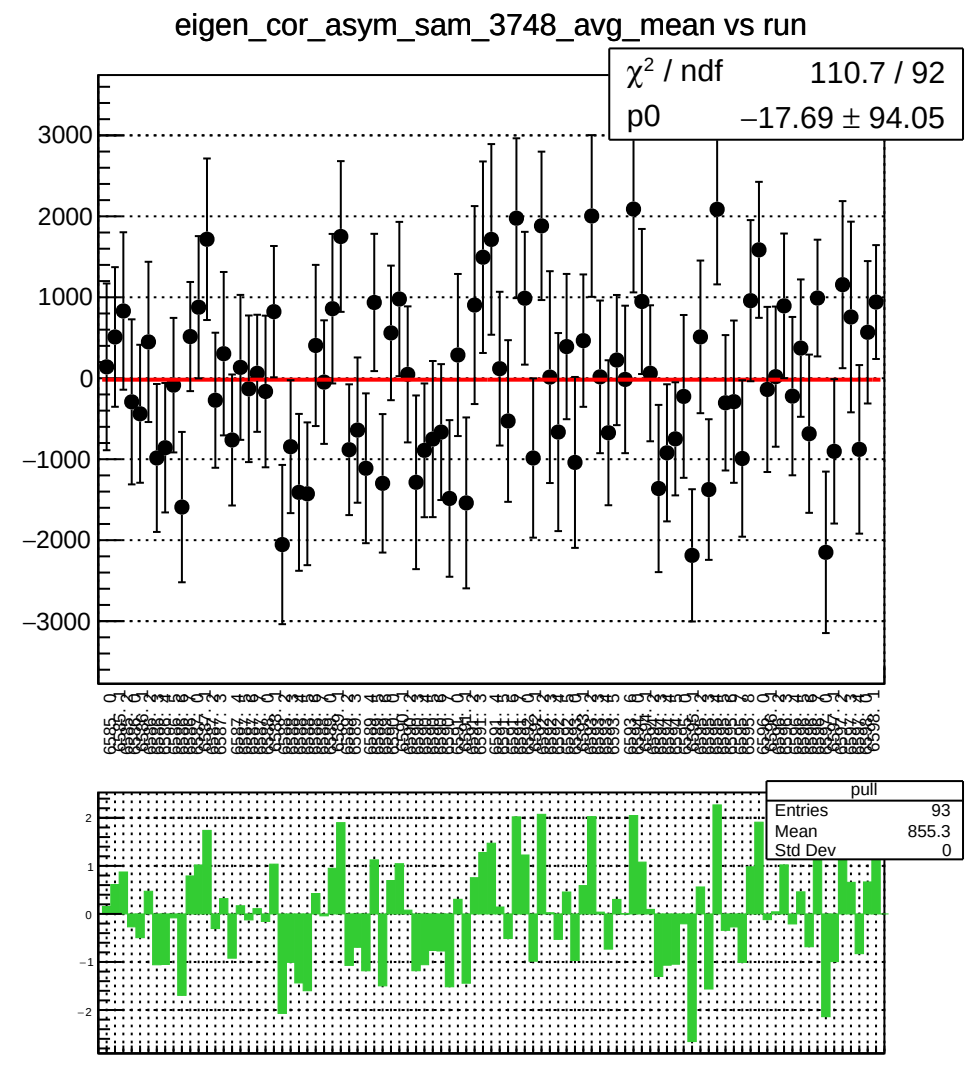

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 110.7 / 92
p0 −17.69 ± 94.05
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 855.3
Std Dev 0
2
1
0
−1
−2

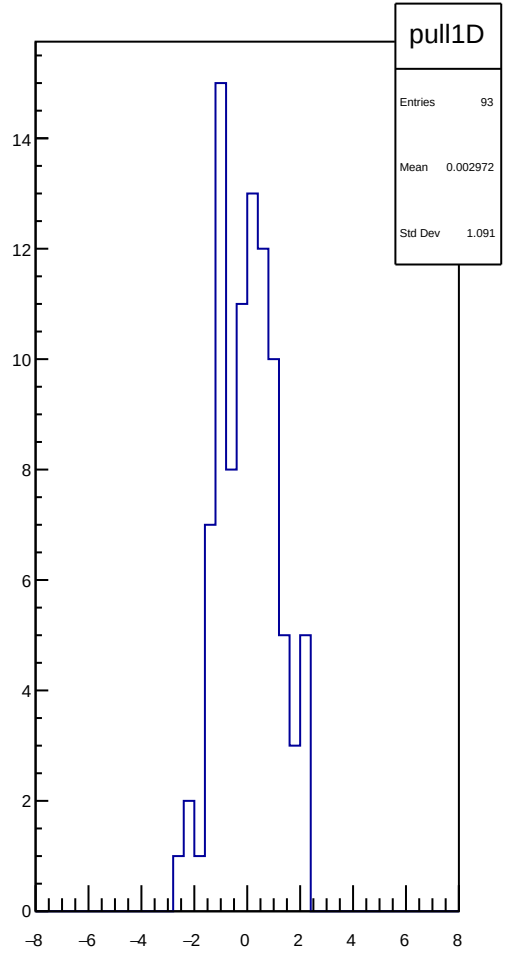

pull1D
Entries 93
Mean 0.002972
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

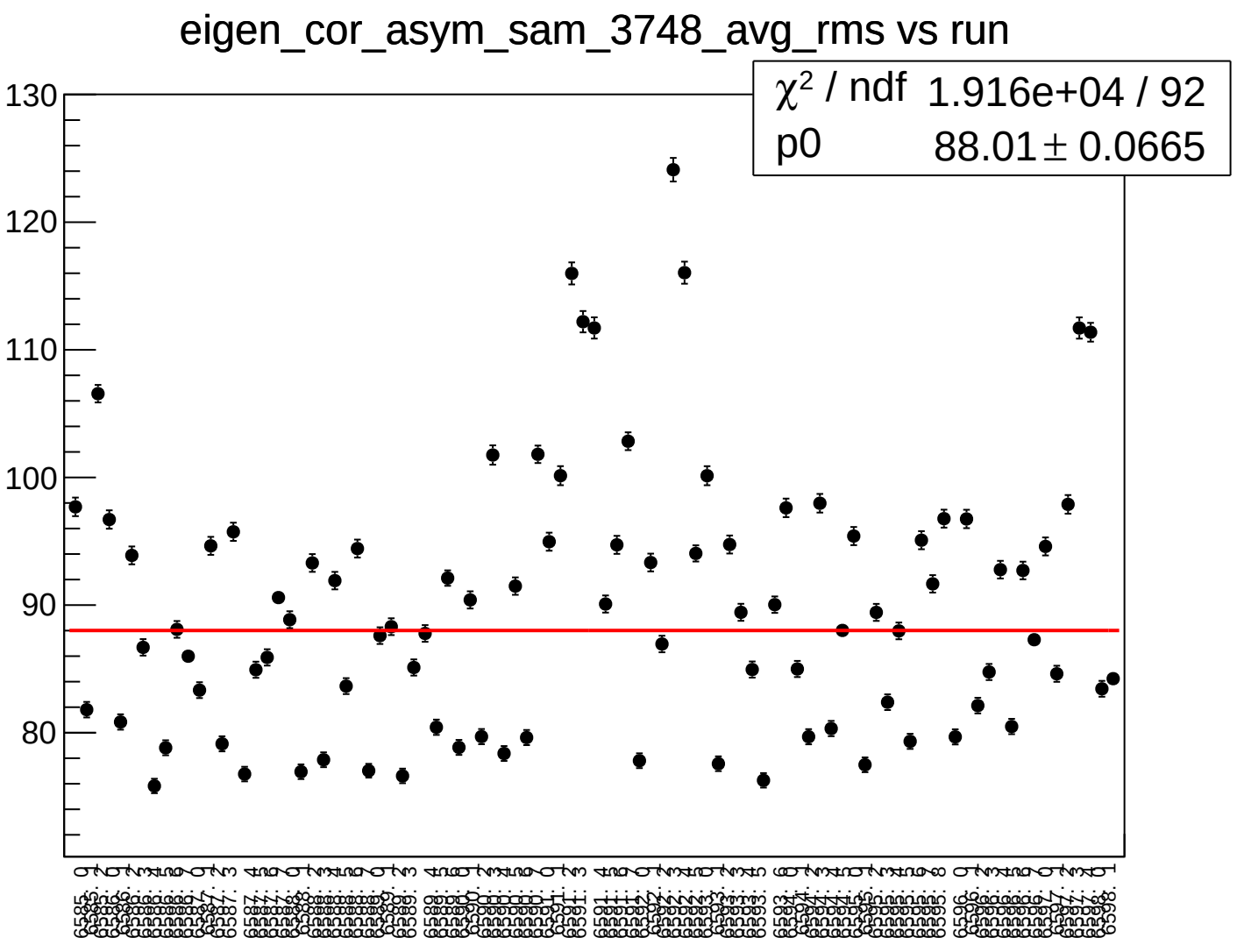

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.916e+04 / 92
p0 88.01 ± 0.0665
130
120
110
100
90
80

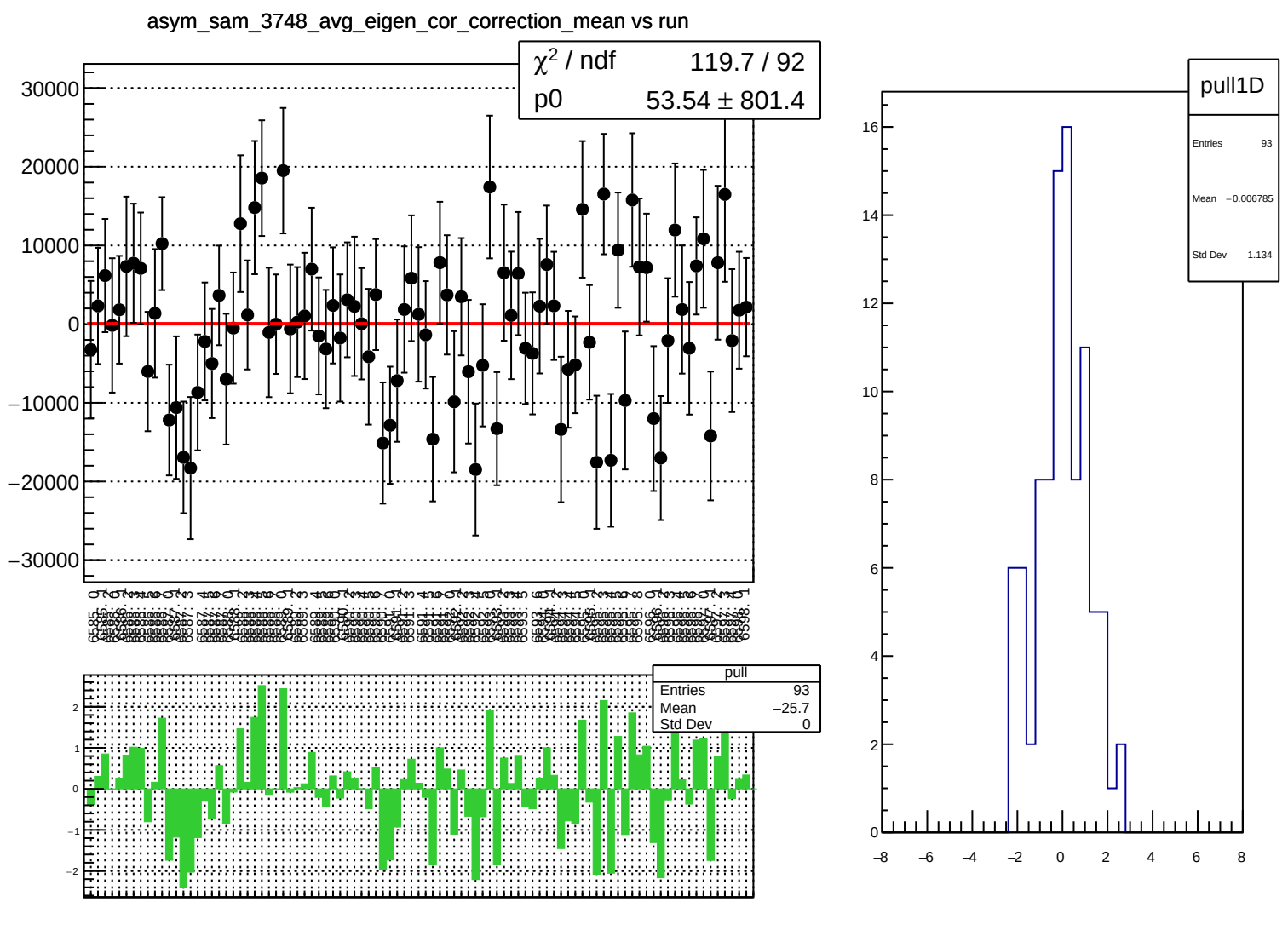

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 119.7 / 92
p0 53.54 ± 801.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −25.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006785
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

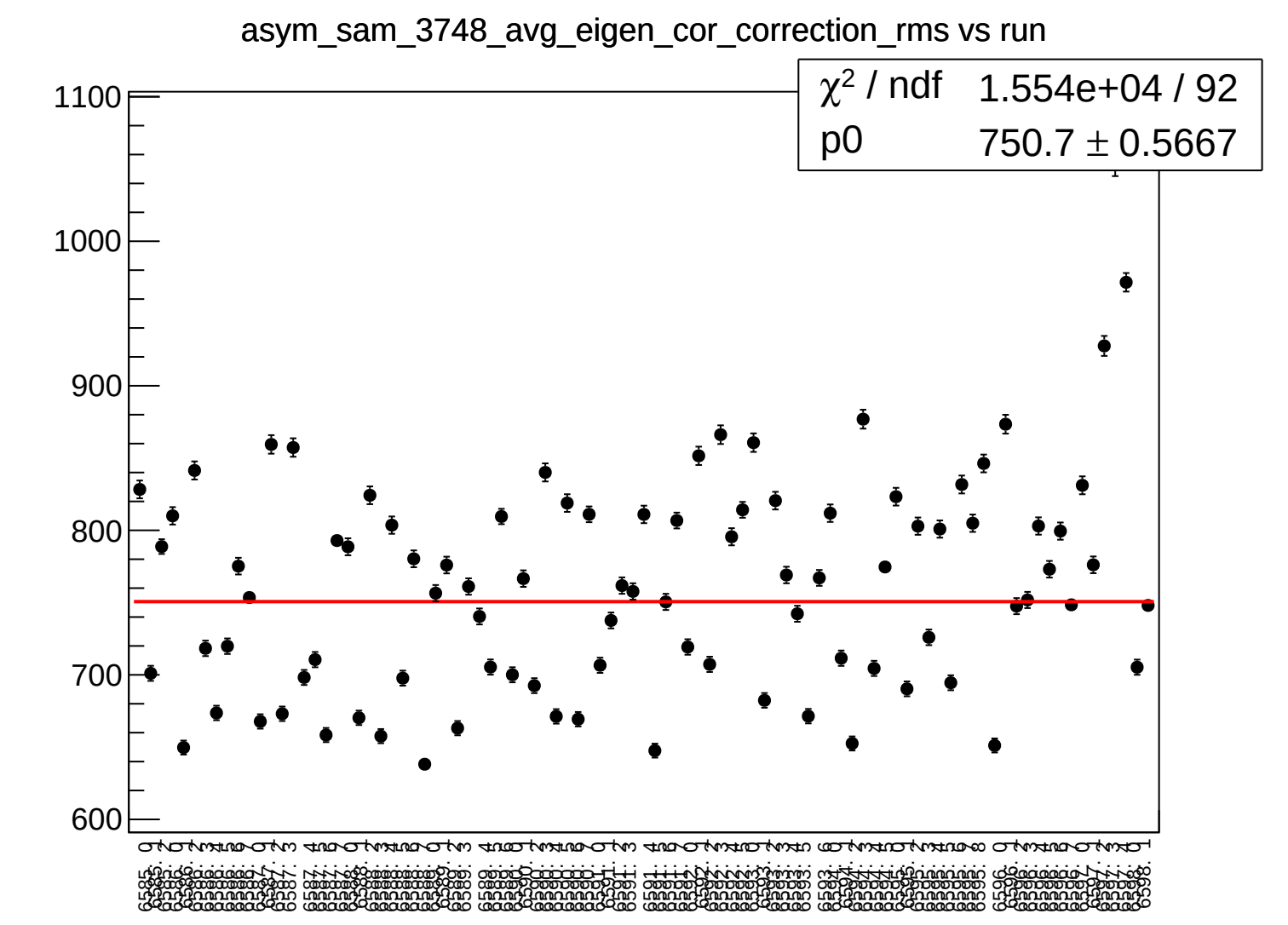

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.554e+04 / 92
p0 750.7 ± 0.5667
1100
1000
900
800
700
600

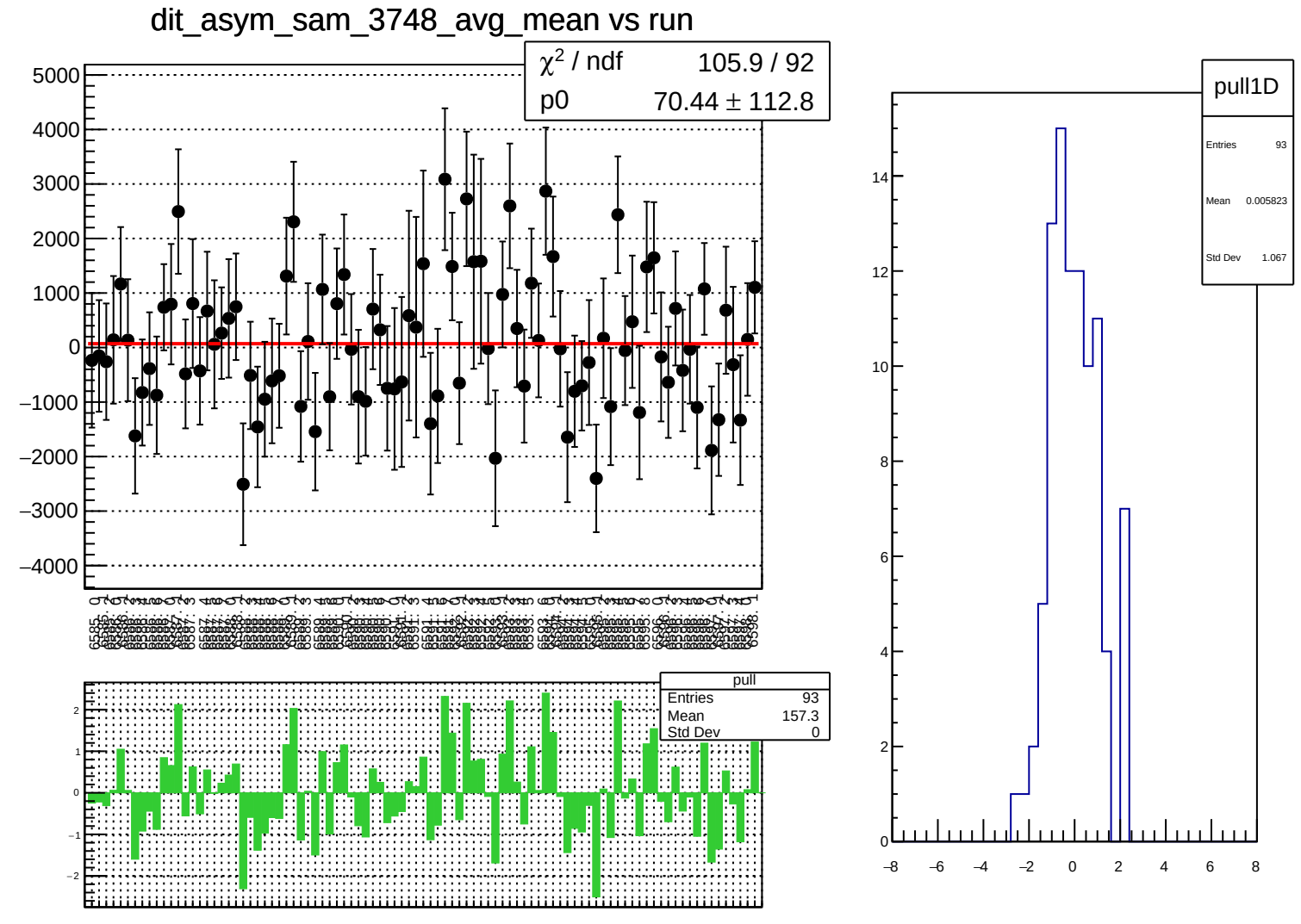

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 110.7 / 92
p0 −17.69 ± 94.05
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 855.3
Std Dev 0
2
1
0
−1
−2

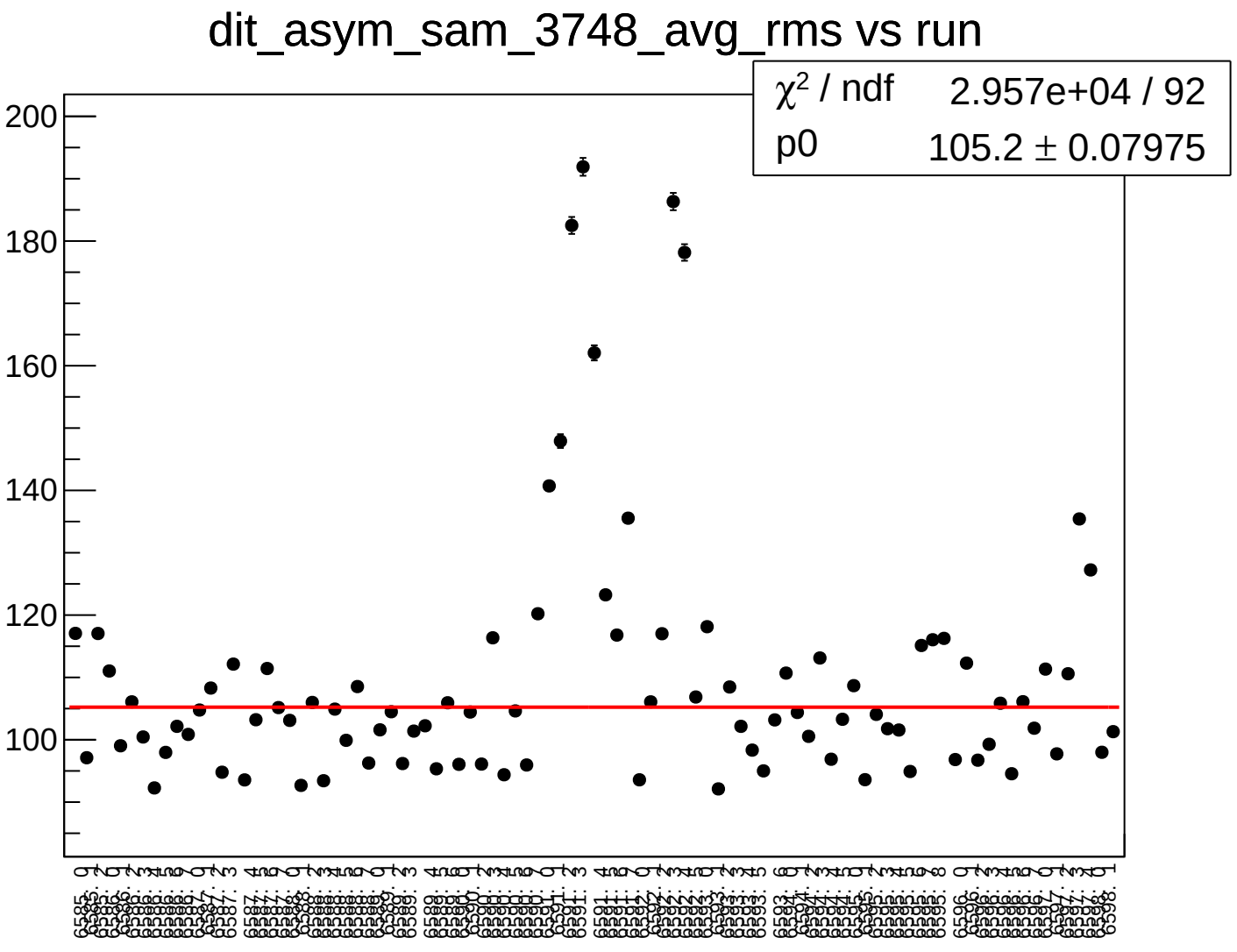

pull1D
Entries 93
Mean 0.002972
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

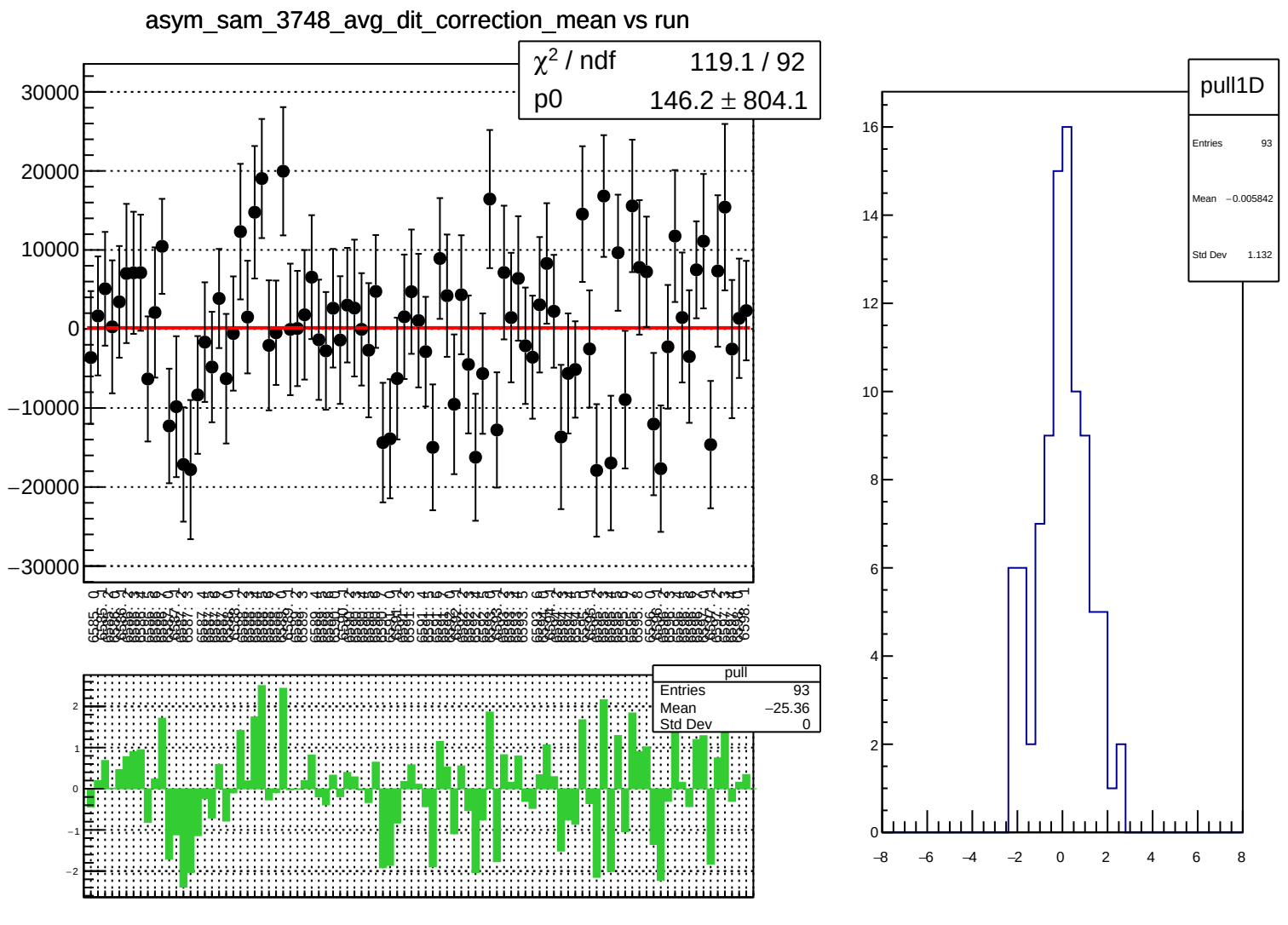

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.916e+04 / 92
p0 88.01 ± 0.0665
130
120
110
100
90
80

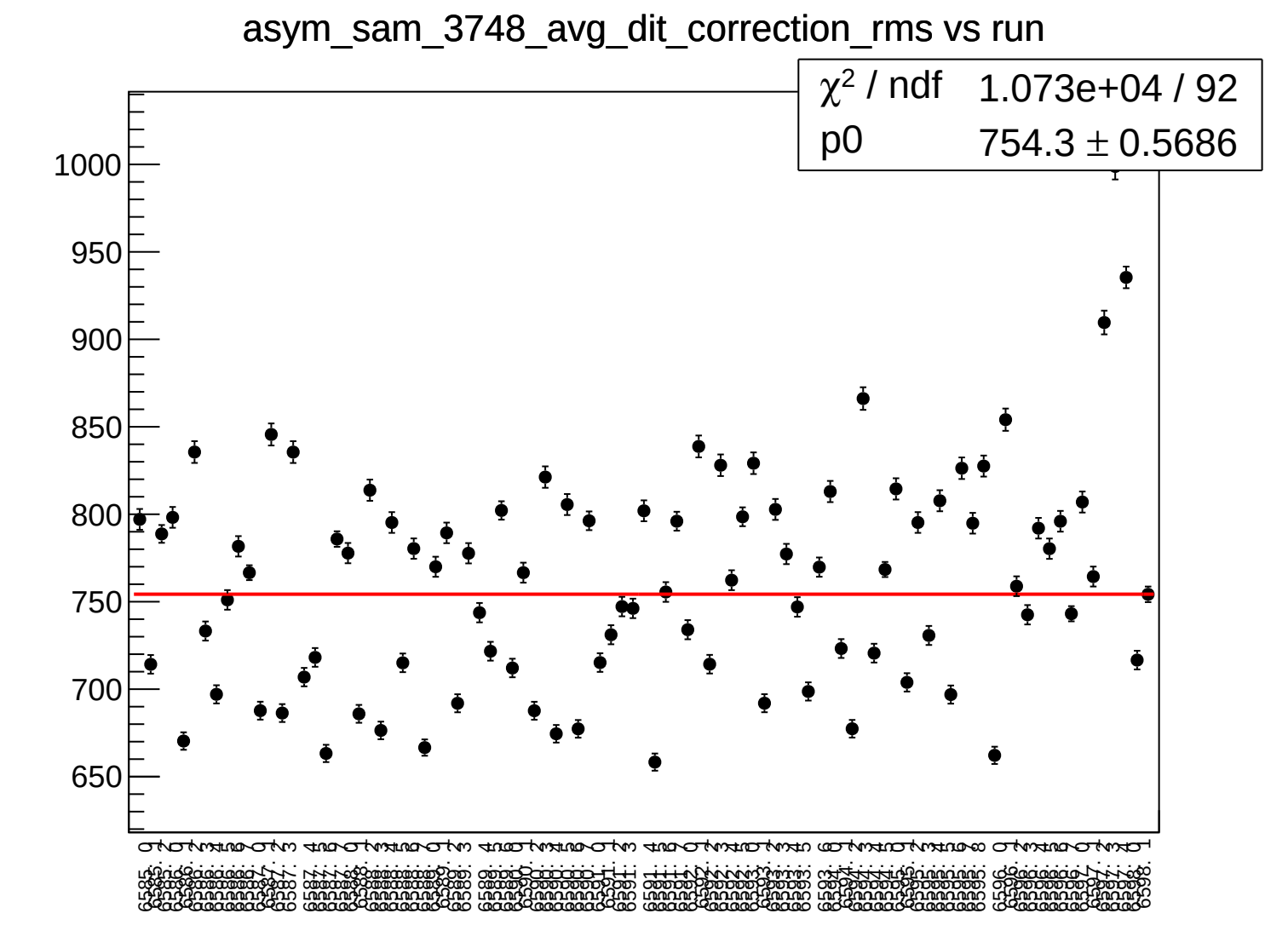

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 119.7 / 92
p0 53.54 ± 801.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −25.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006785
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

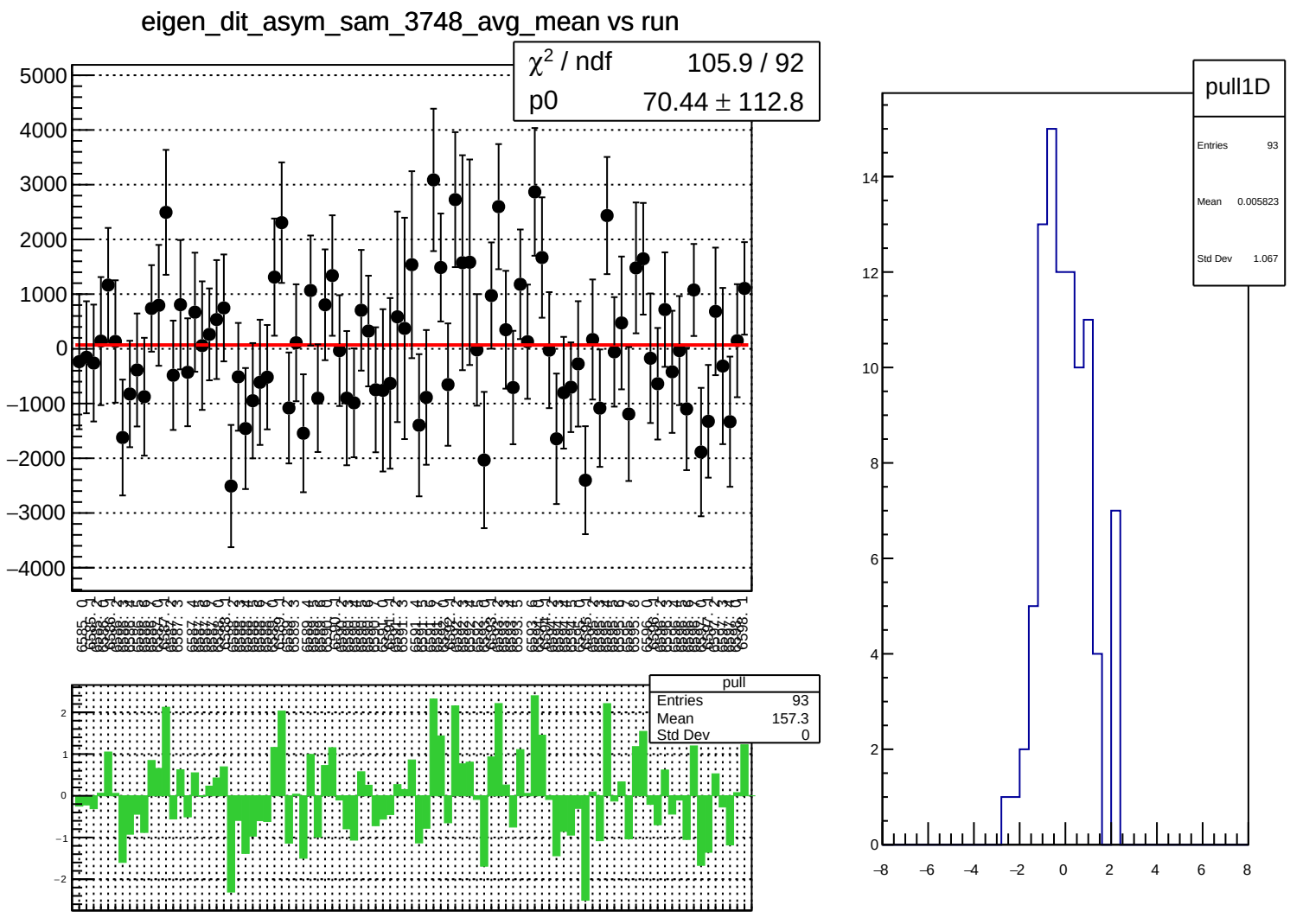

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.554e+04 / 92
p0 750.7 ± 0.5667
1100
1000
900
800
700
600

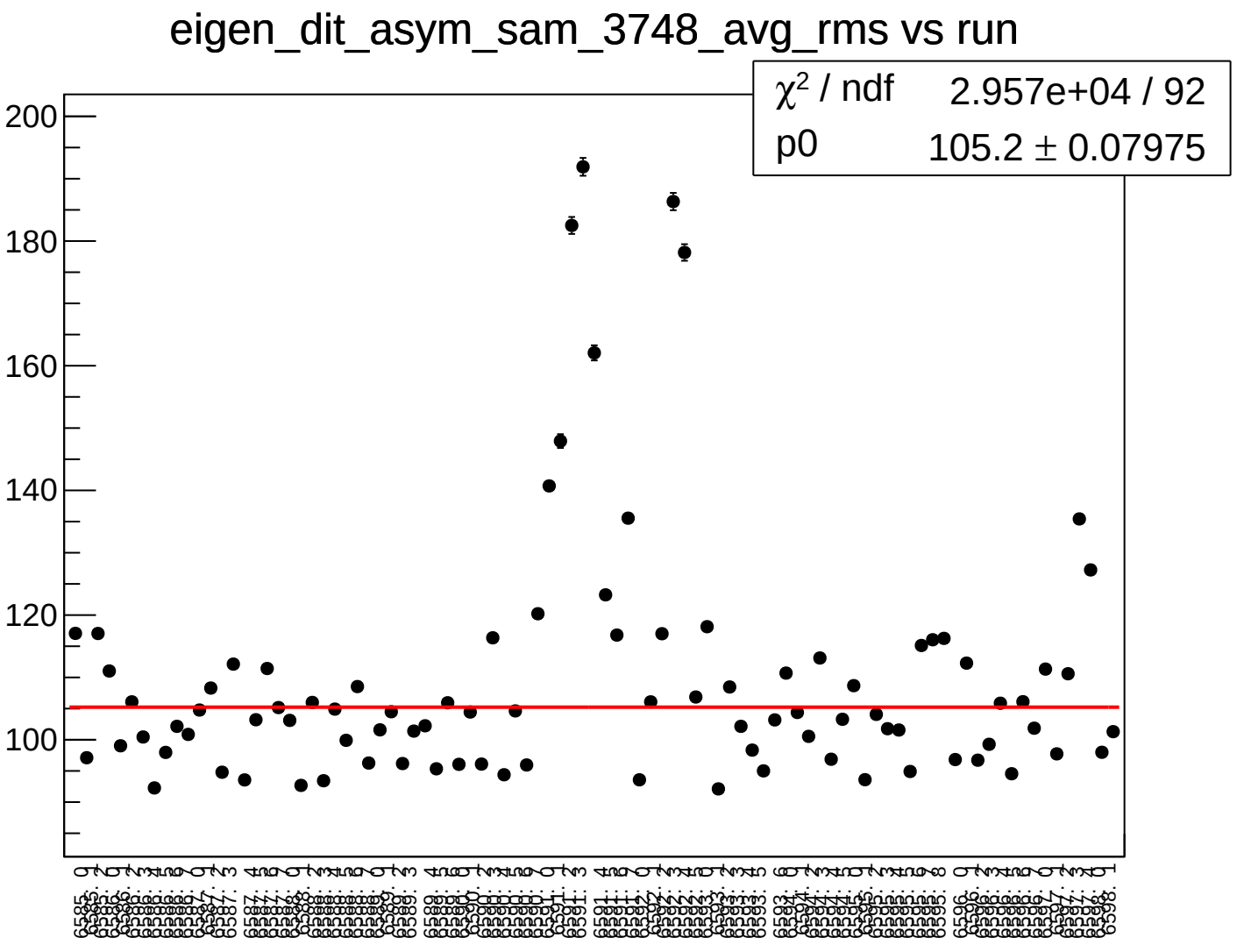

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 105.9 / 92
p0 70.44 ± 112.8
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 157.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005823
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

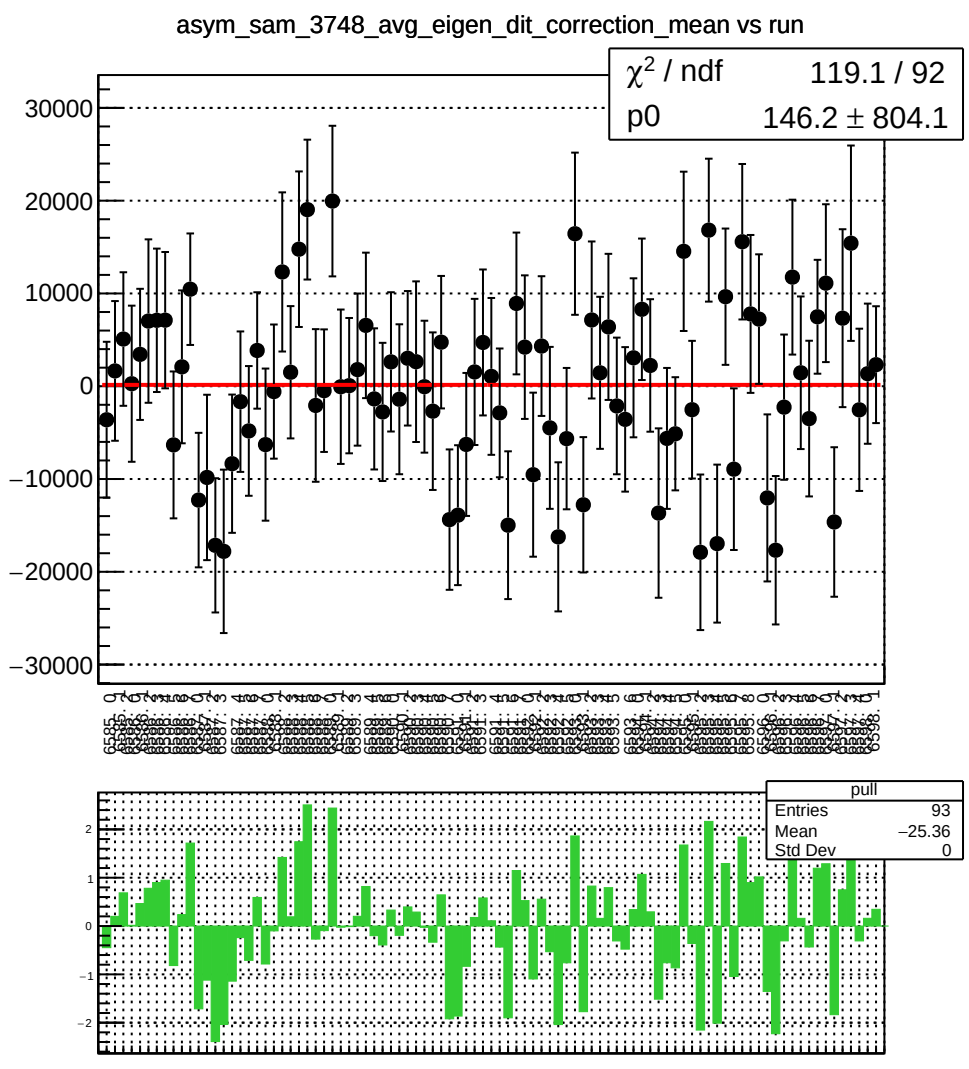

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.957e+04 / 92
p0 105.2 ± 0.07975
200
180
160
140
120
100

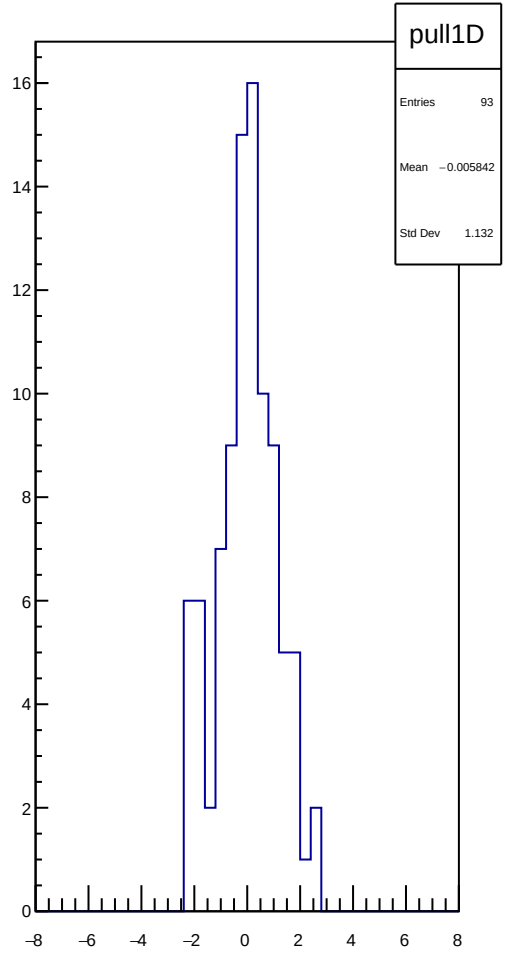

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 119.1 / 92
p0 146.2 ± 804.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −25.36
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005842
Std Dev 1.132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

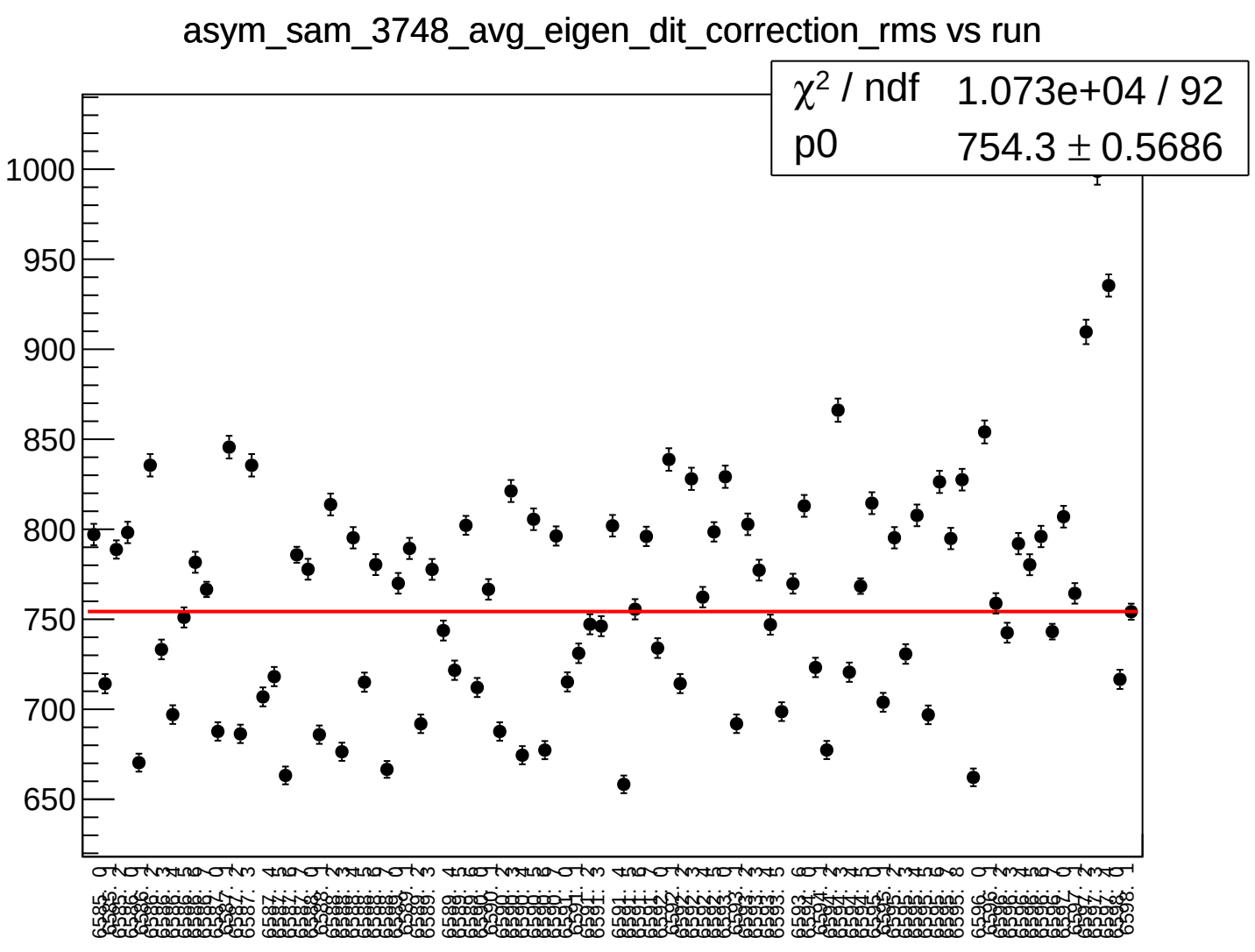

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.073e+04 / 92
p0 754.3 ± 0.5686
1000
950
900
850
800
750
700
650

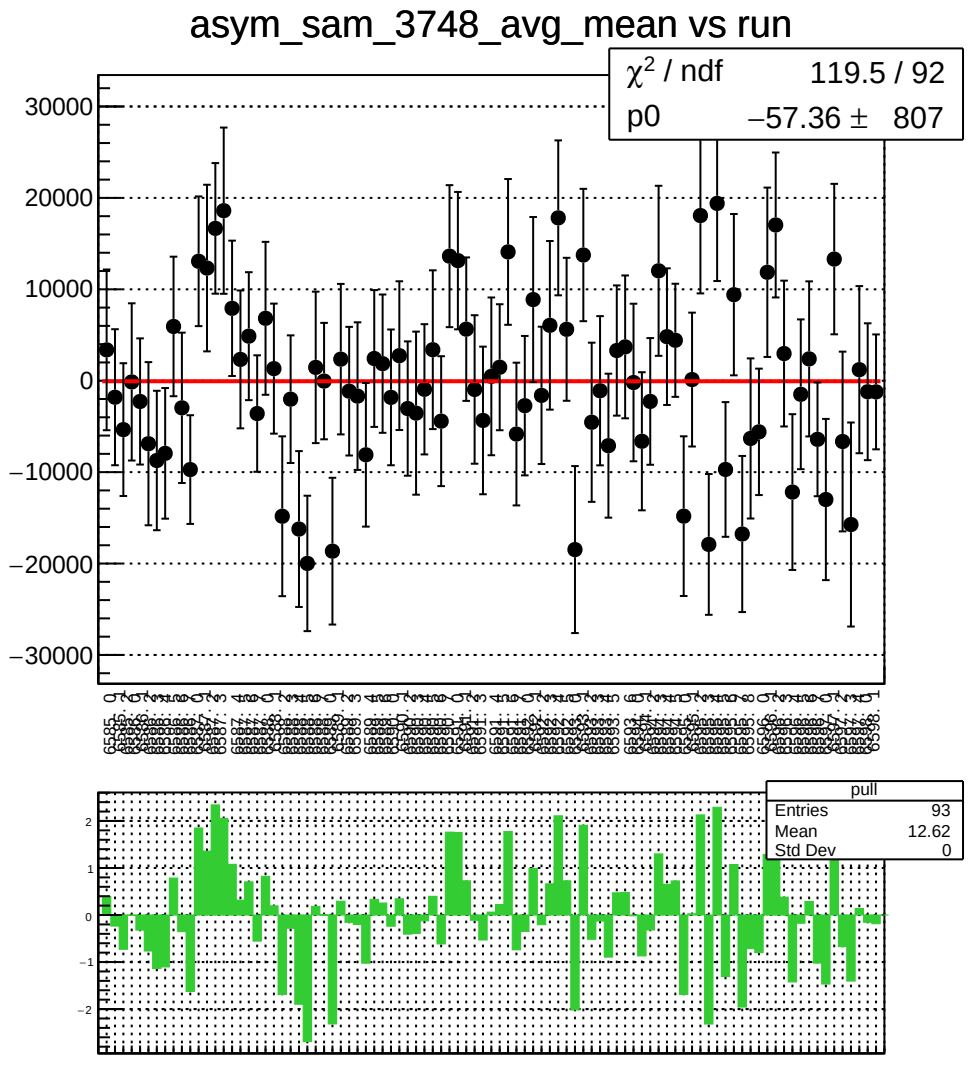

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 105.9 / 92
p0 70.44 ± 112.8
pull
Entries 93
Mean 157.3
Std Dev 0
pull1D
Entries 93
Mean 0.005823
Std Dev 1.067

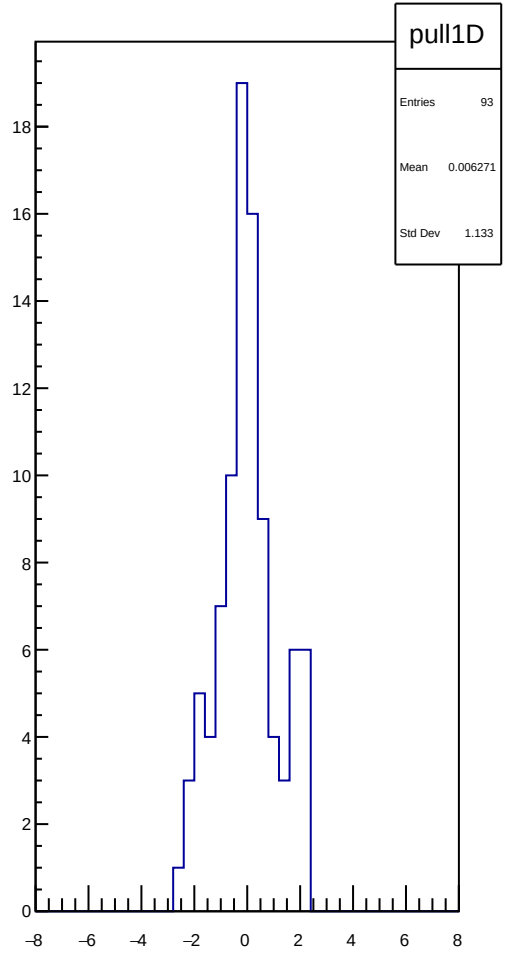

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.957e+04 / 92
p0 105.2 ± 0.07975
200
180
160
140
120
100

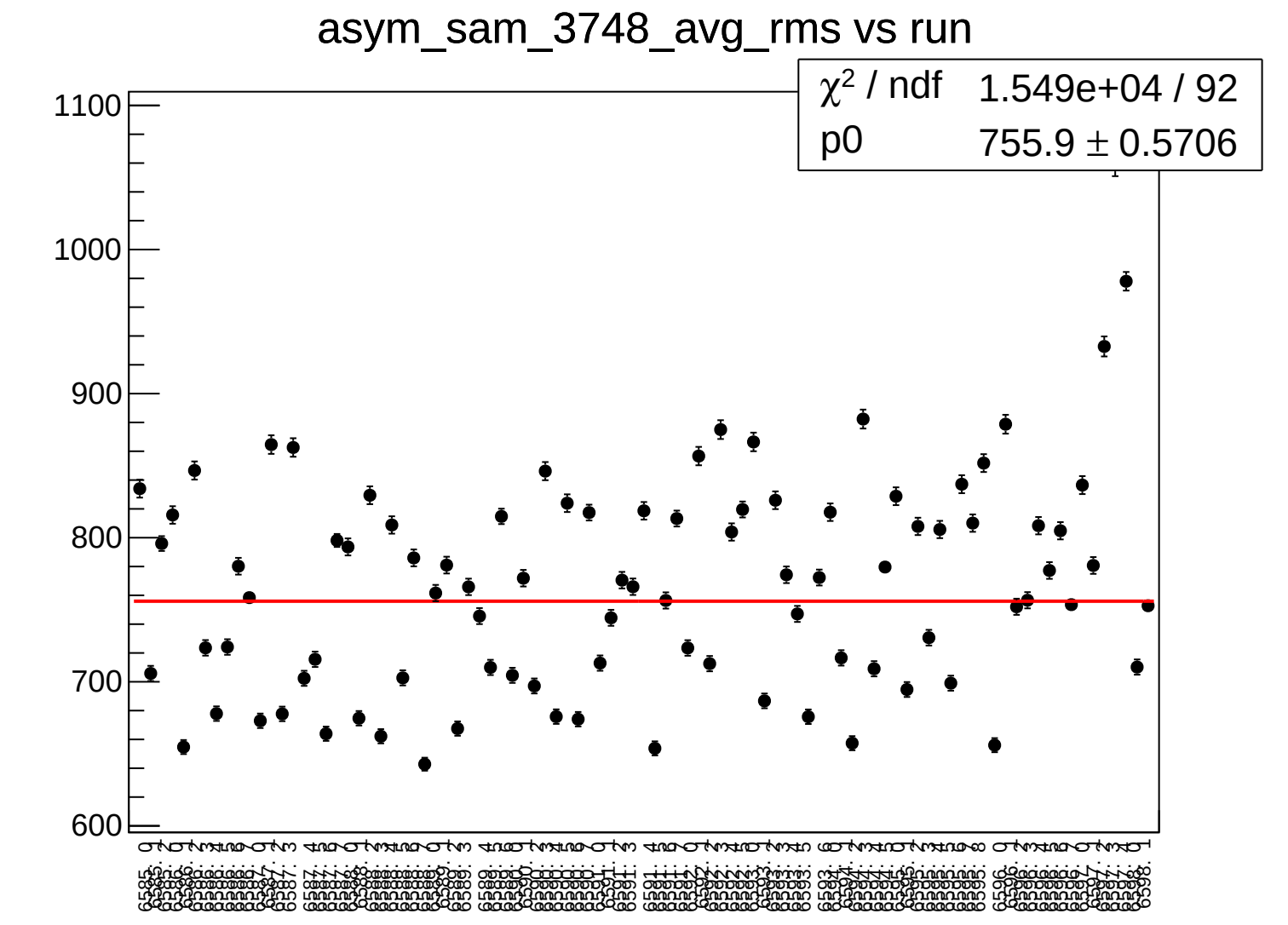

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 119.1 / 92
p0 146.2 ± 804.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −25.36
Std Dev 0
2
1
0
−1
−2

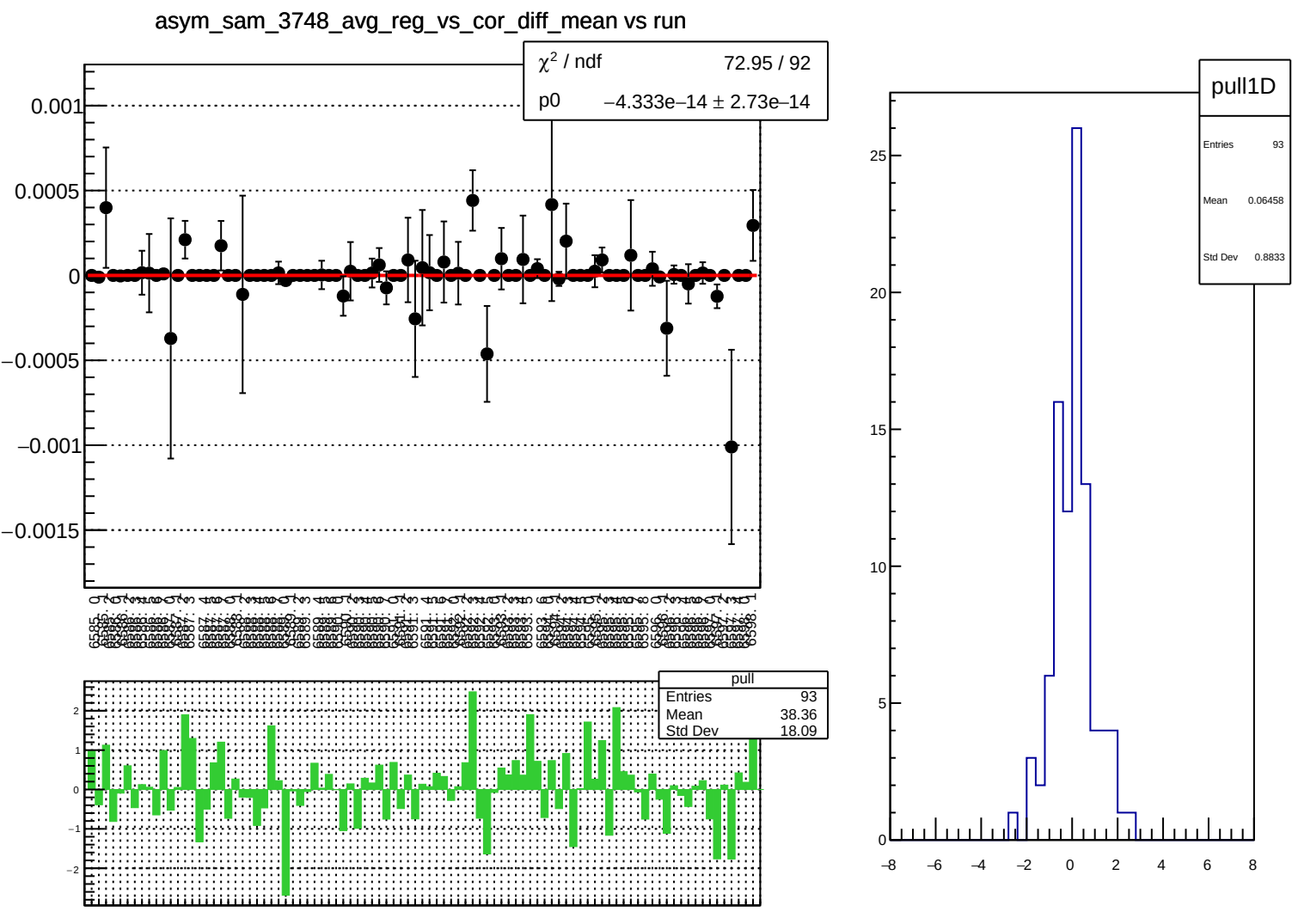

pull1D
Entries 93
Mean −0.005842
Std Dev 1.132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

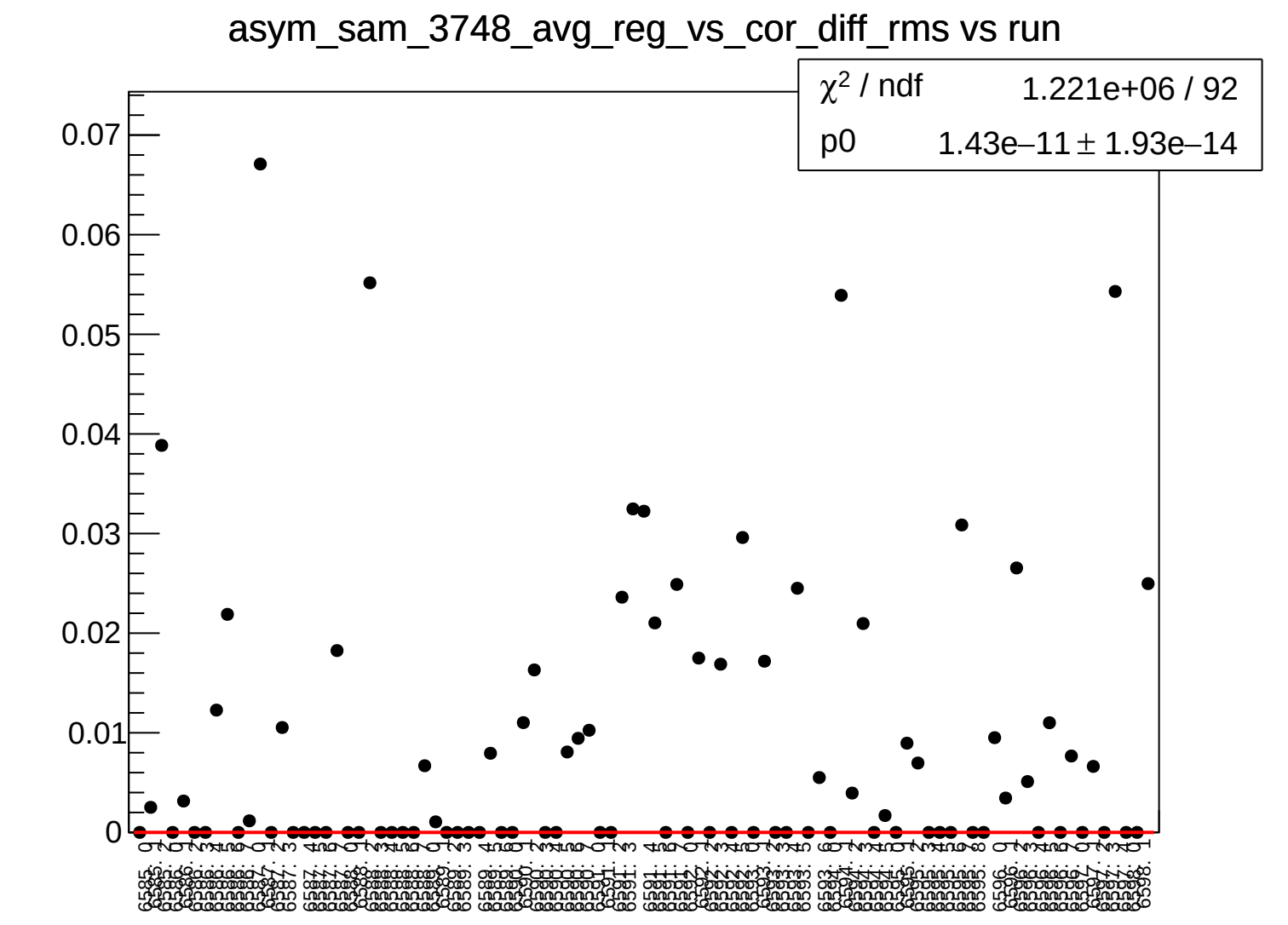

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.073e+04 / 92
p0 754.3 ± 0.5686
1000
950
900
850
800
750
700
650

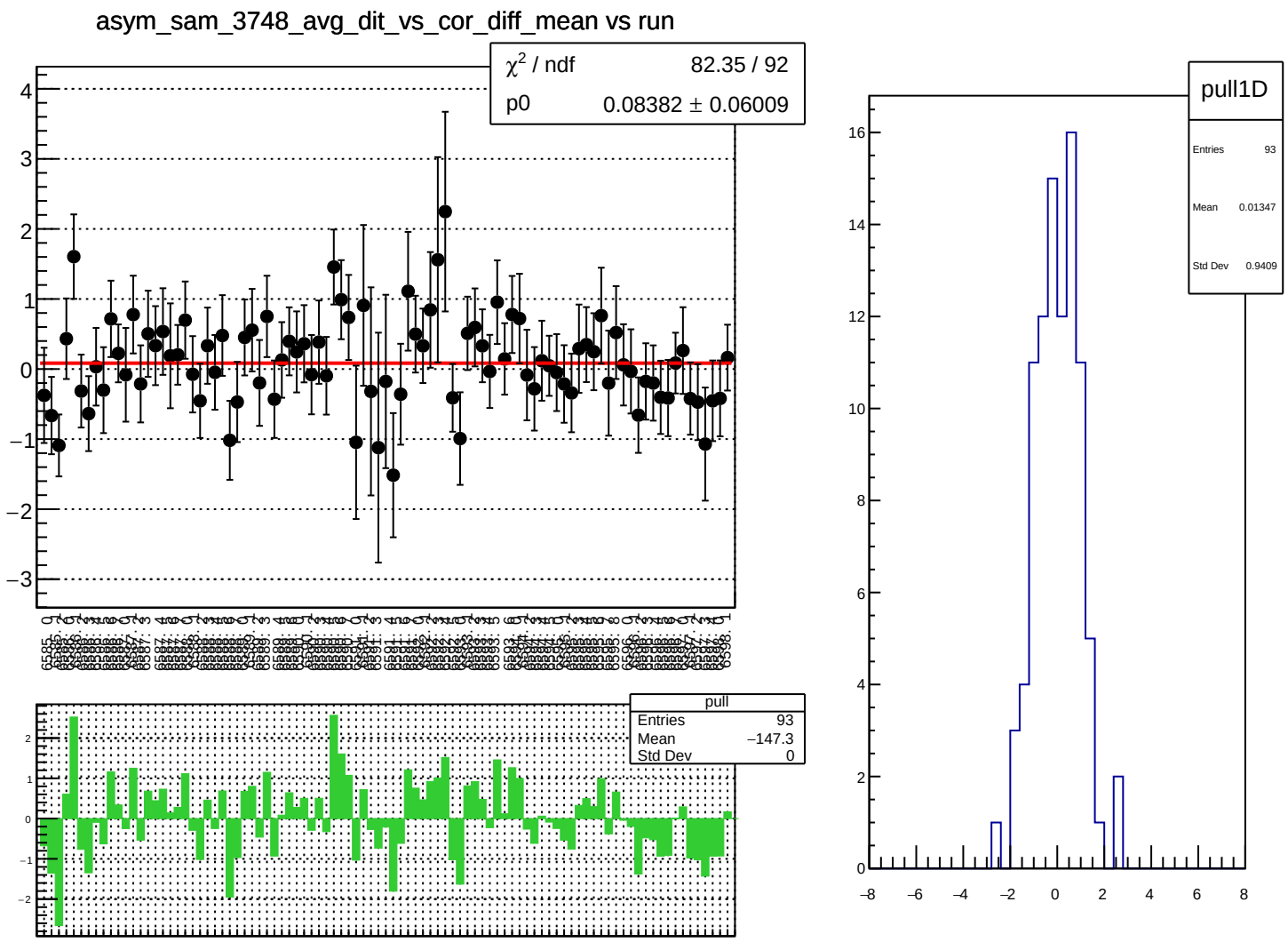

asym_sam_3748_avg_mean vs run
χ² / ndf 119.5 / 92
p0 −57.36 ± 807
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 12.62
Std Dev 0
2
1
0
−1
−2

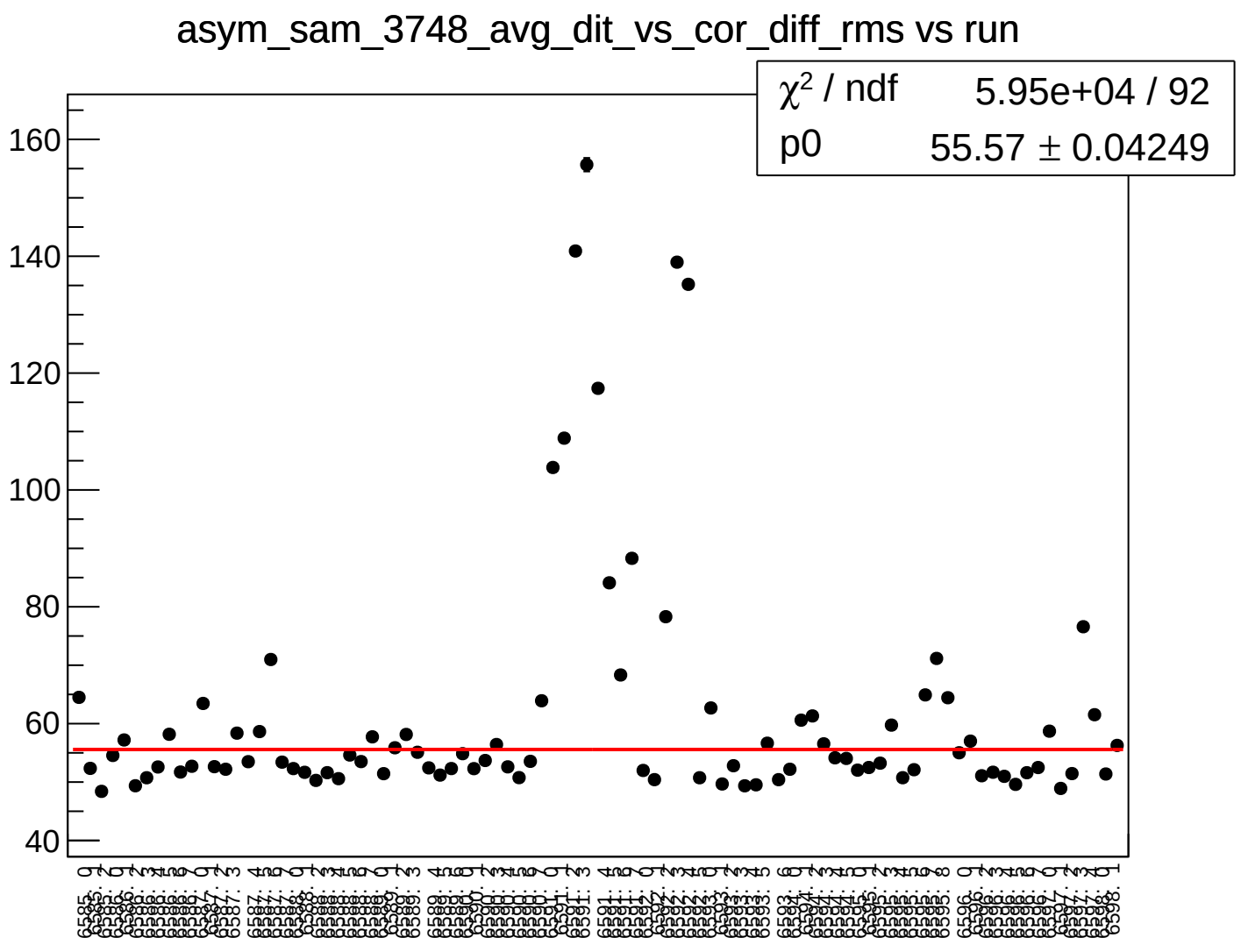

pull1D
Entries 93
Mean 0.006271
Std Dev 1.133
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

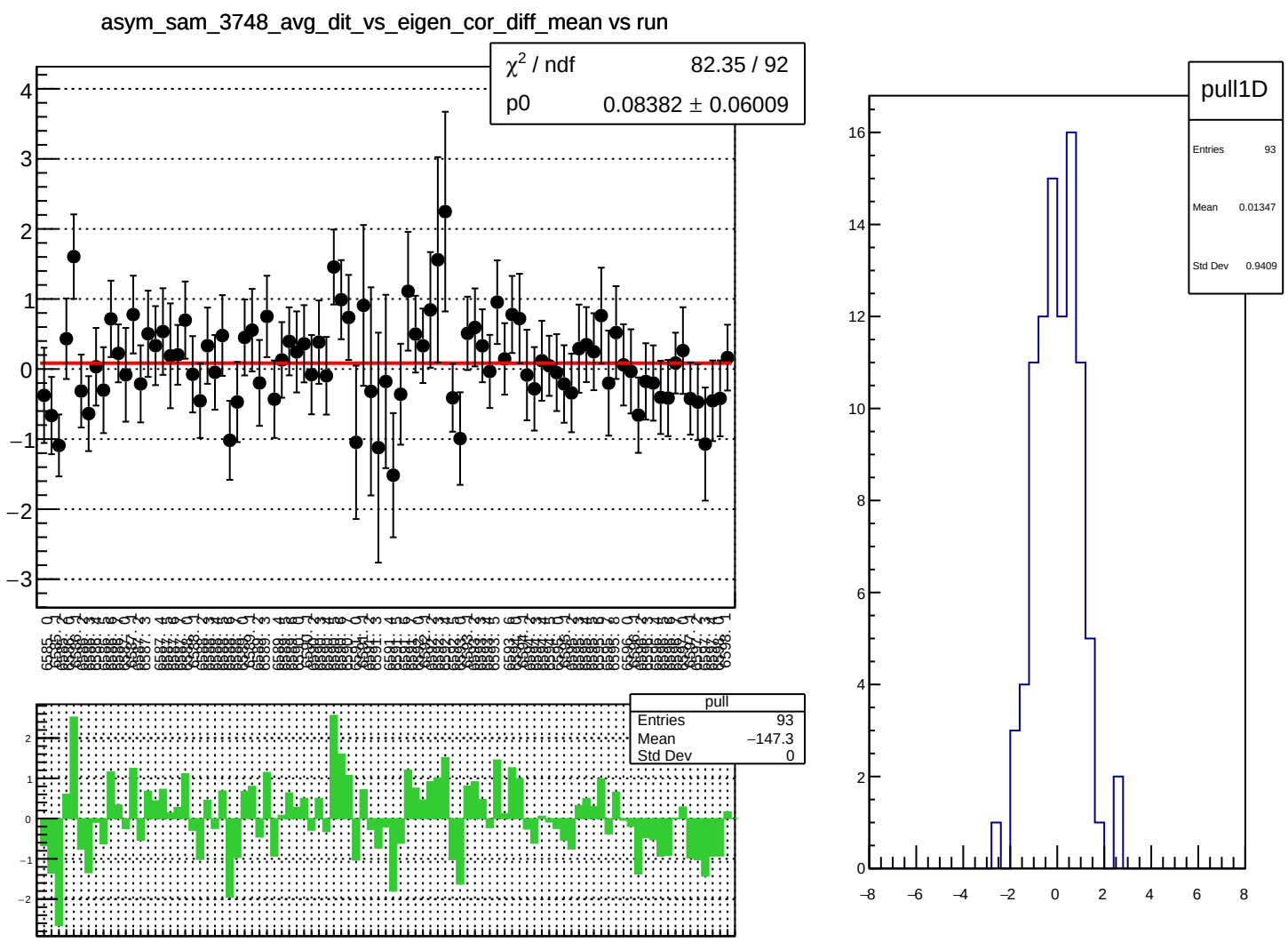

asym_sam_3748_avg_rms vs run
χ² / ndf 1.549e+04 / 92
p0 755.9 ± 0.5706
1100
1000
900
800
700
600

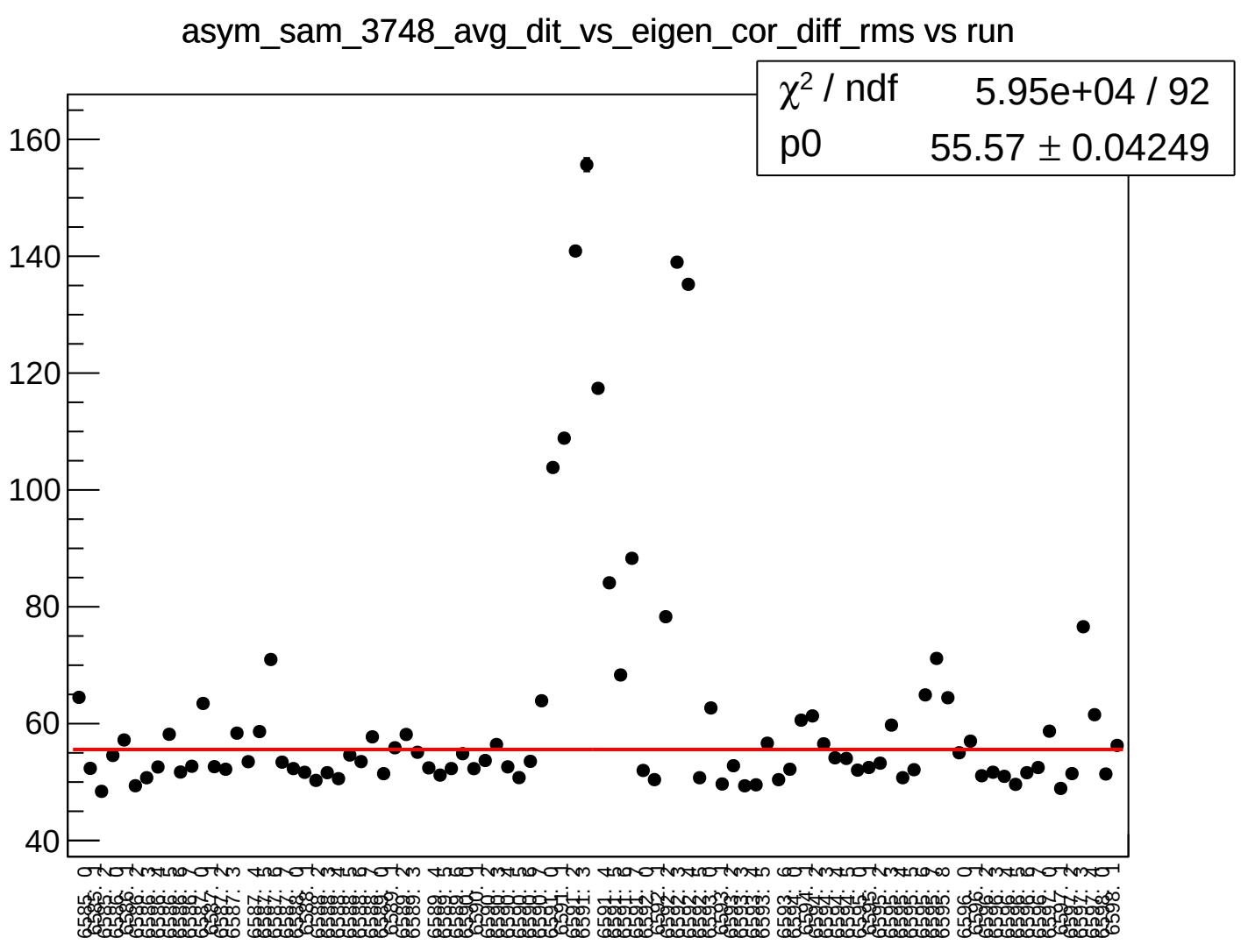

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.95 / 92
p0 −4.333e−14 ± 2.73e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 38.36
Std Dev 18.09
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.06458
Std Dev 0.8833
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

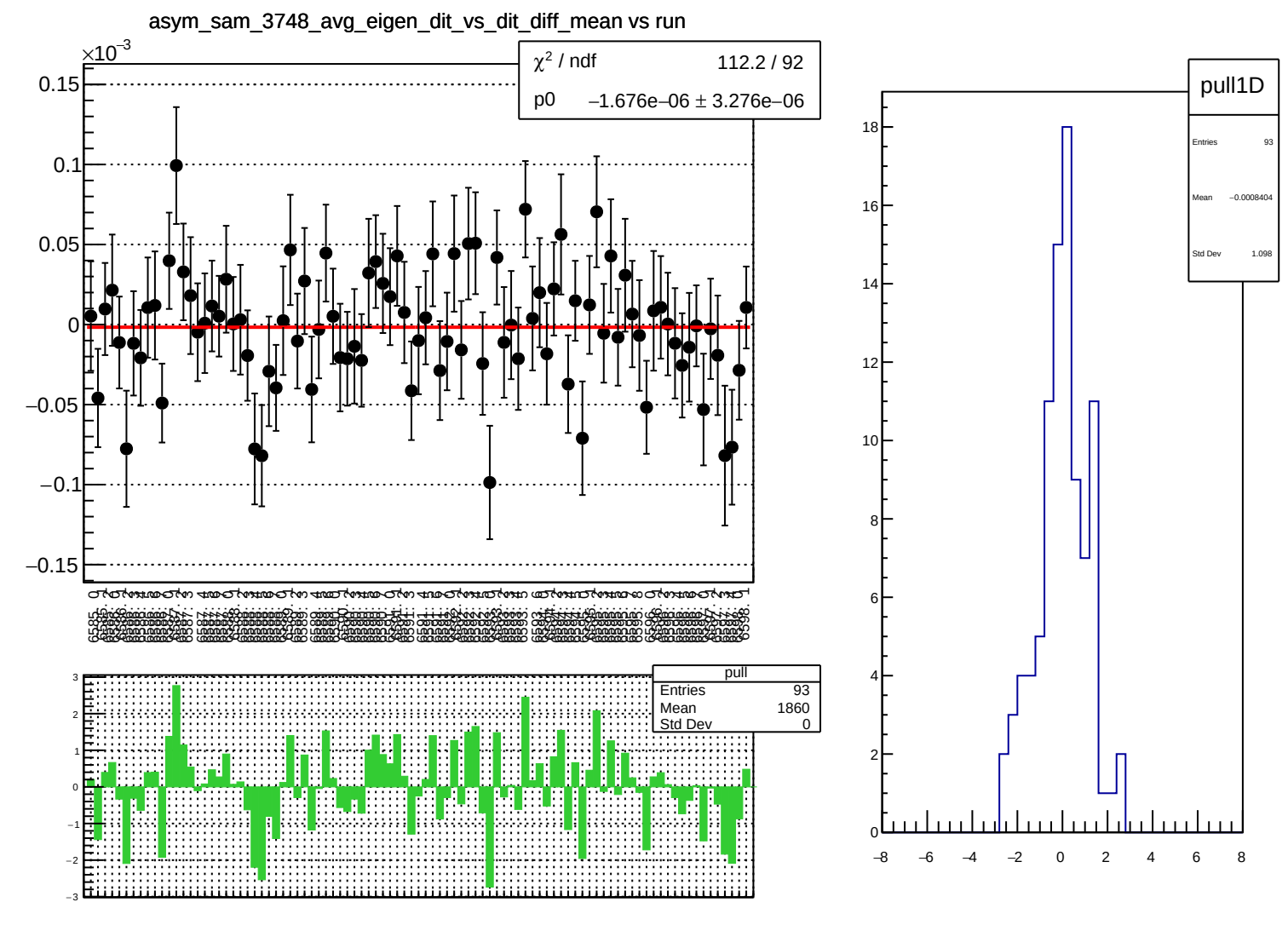

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.221e+06 / 92
p0 1.43e−11 ± 1.93e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

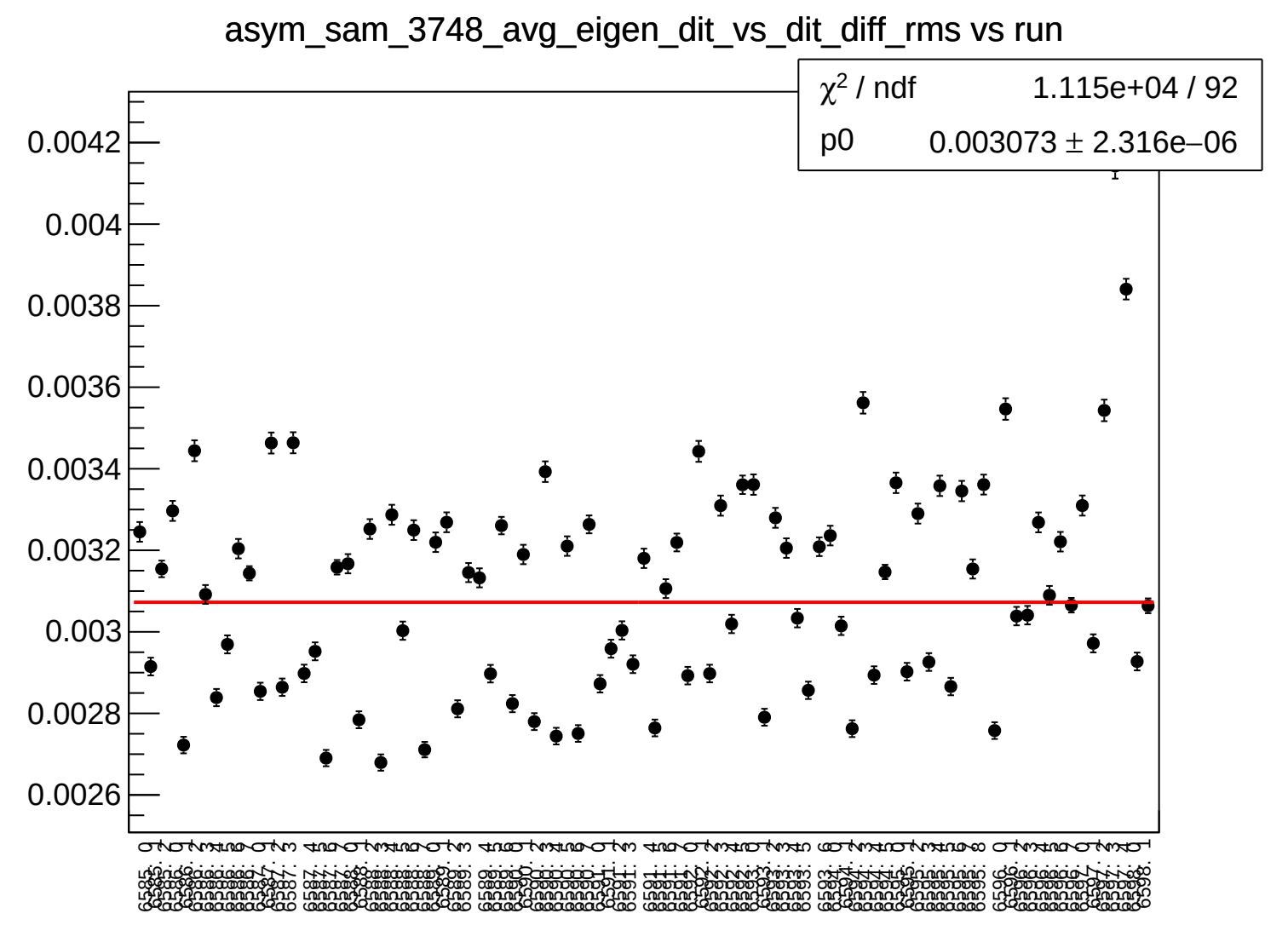

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.35 / 92
p0 0.08382 ± 0.06009
pull
Entries 93
Mean −147.3
Std Dev 0
pull1D
Entries 93
Mean 0.01347
Std Dev 0.9409

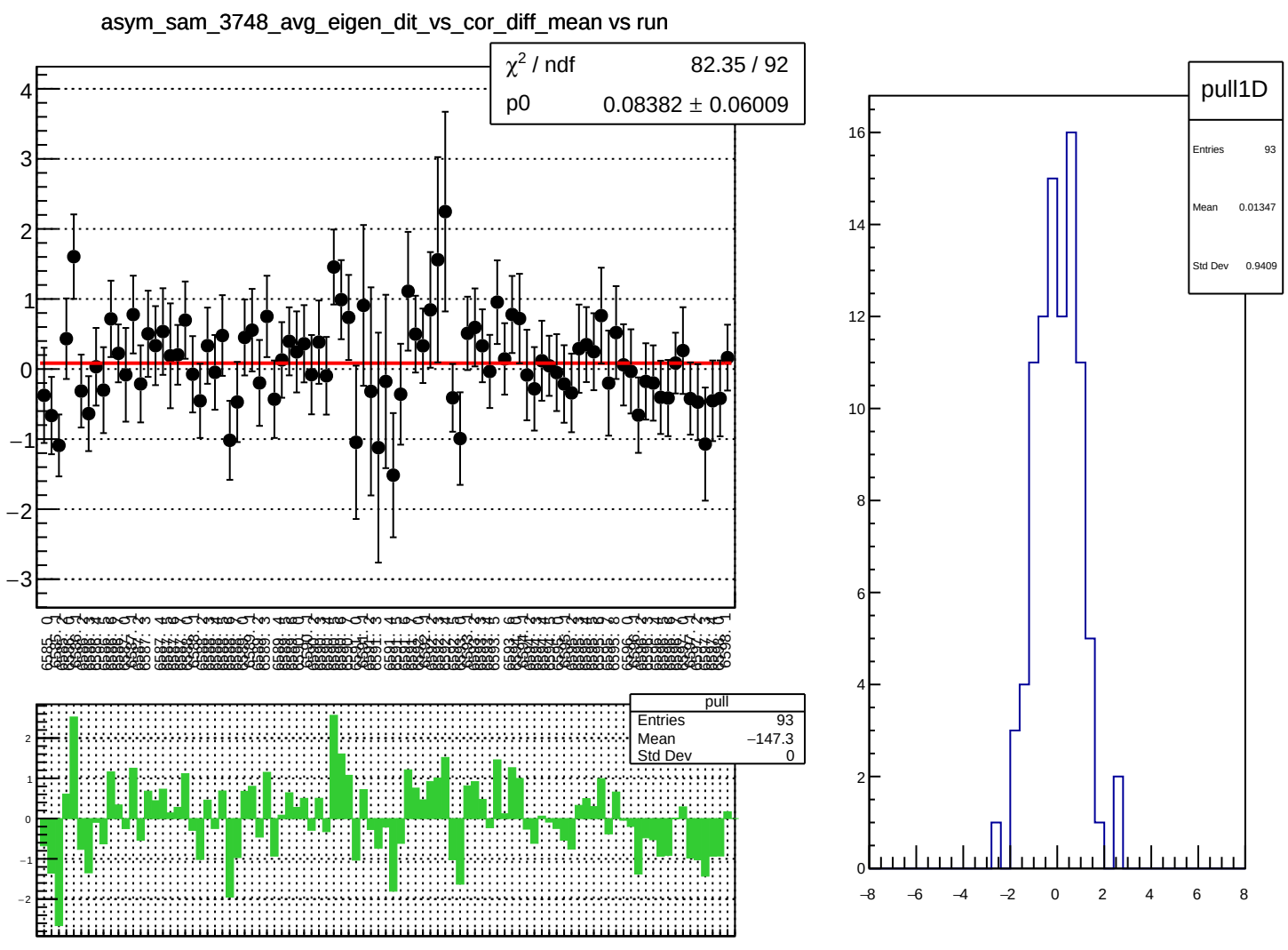

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.95e+04 / 92
p0 55.57 ± 0.04249
160
140
120
100
80
60
40

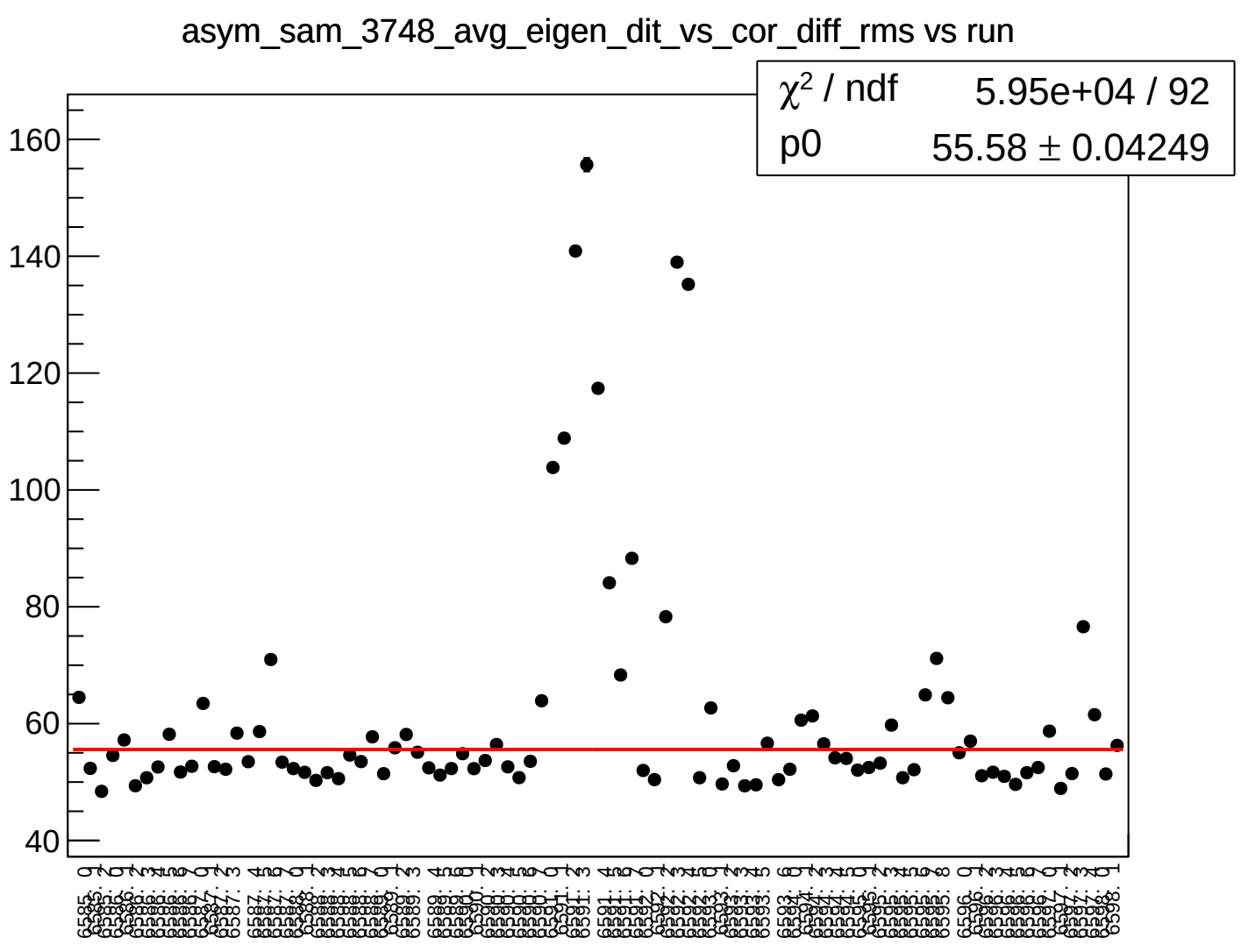

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.35 / 92
p0 0.08382 ± 0.06009
pull
Entries 93
Mean −147.3
Std Dev 0
pull1D
Entries 93
Mean 0.01347
Std Dev 0.9409

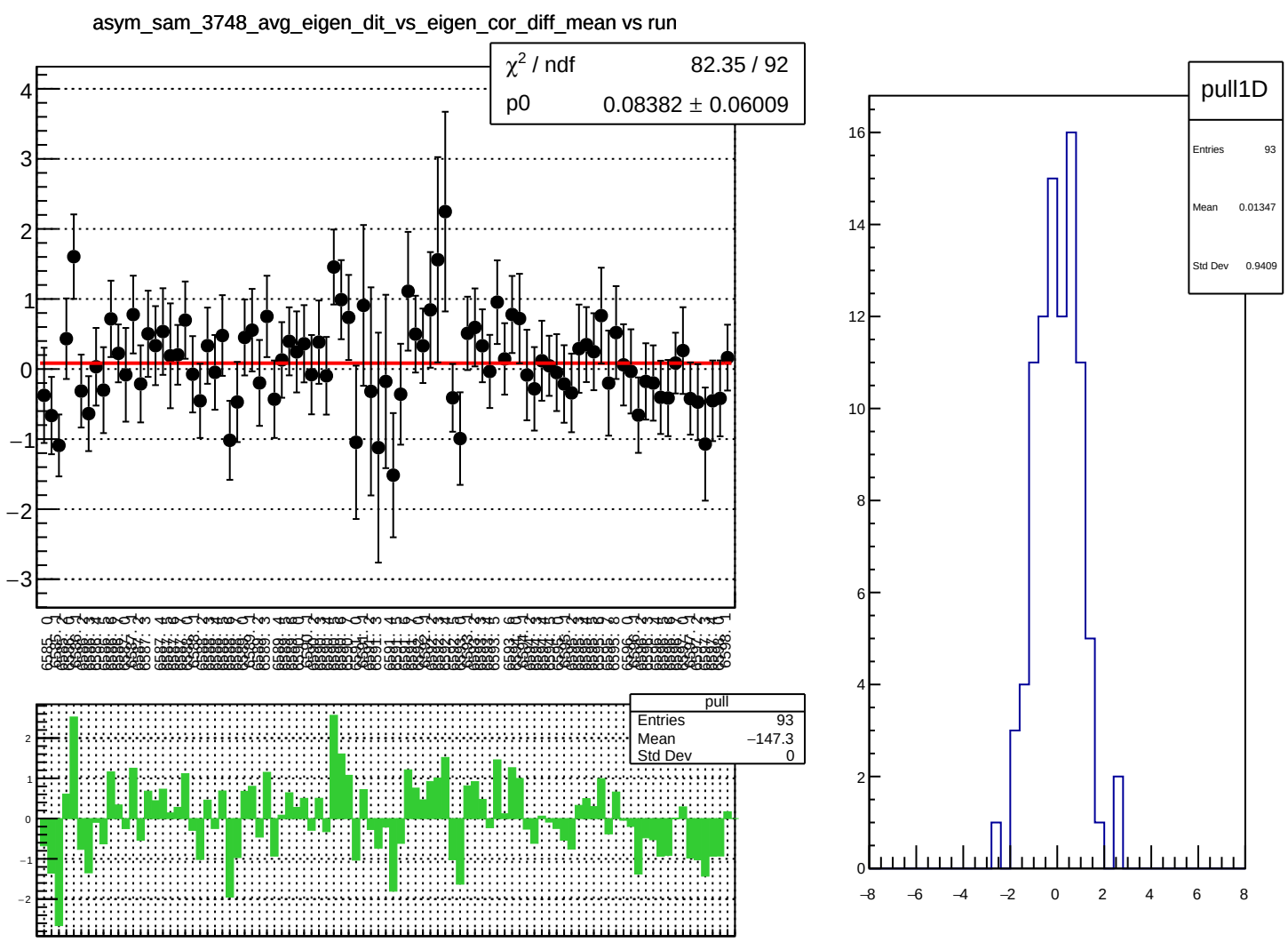

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.95e+04 / 92
p0 55.57 ± 0.04249
160
140
120
100
80
60
40

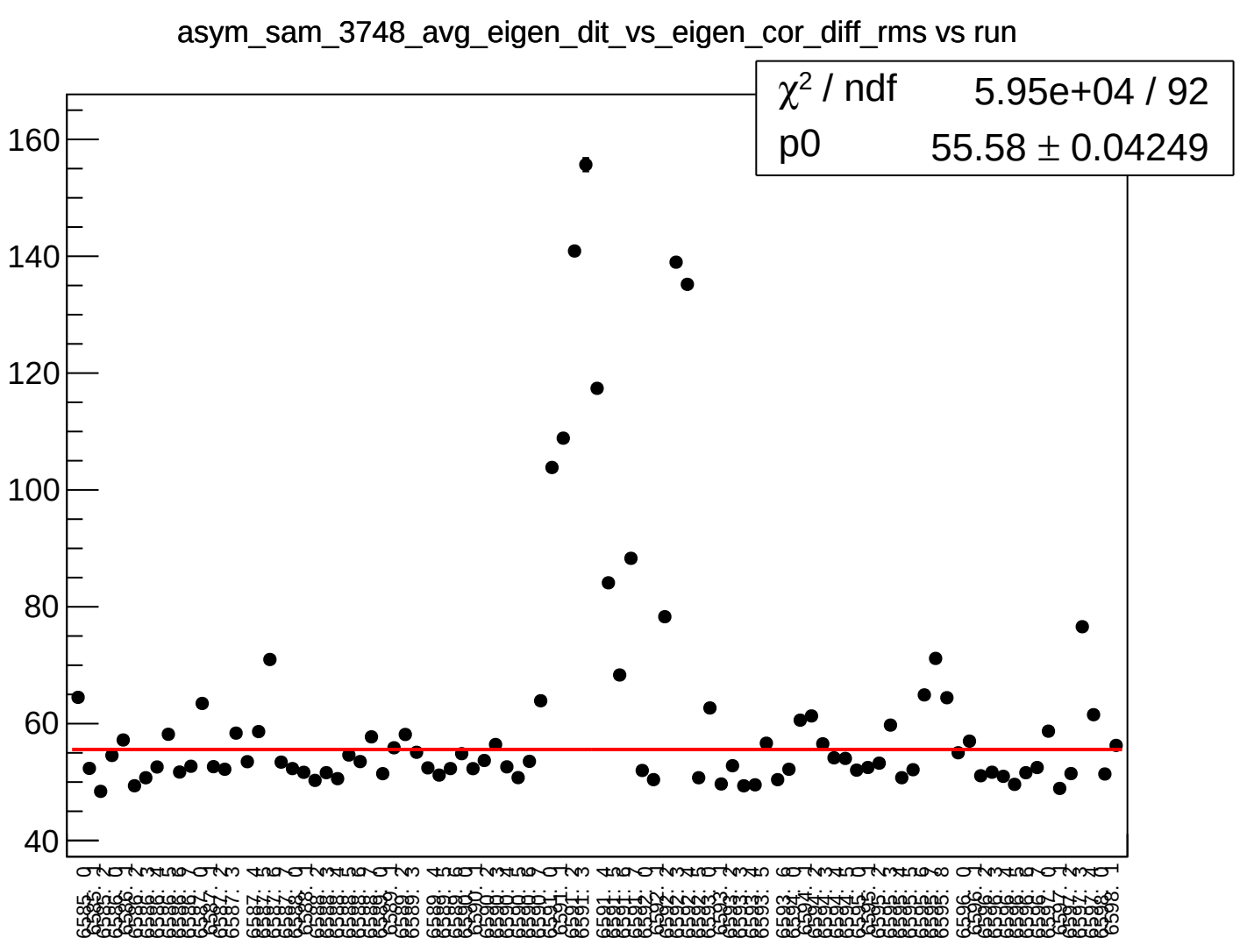

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.2 / 92
p0 −1.676e−06 ± 3.276e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 1860
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.0008404
Std Dev 1.098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

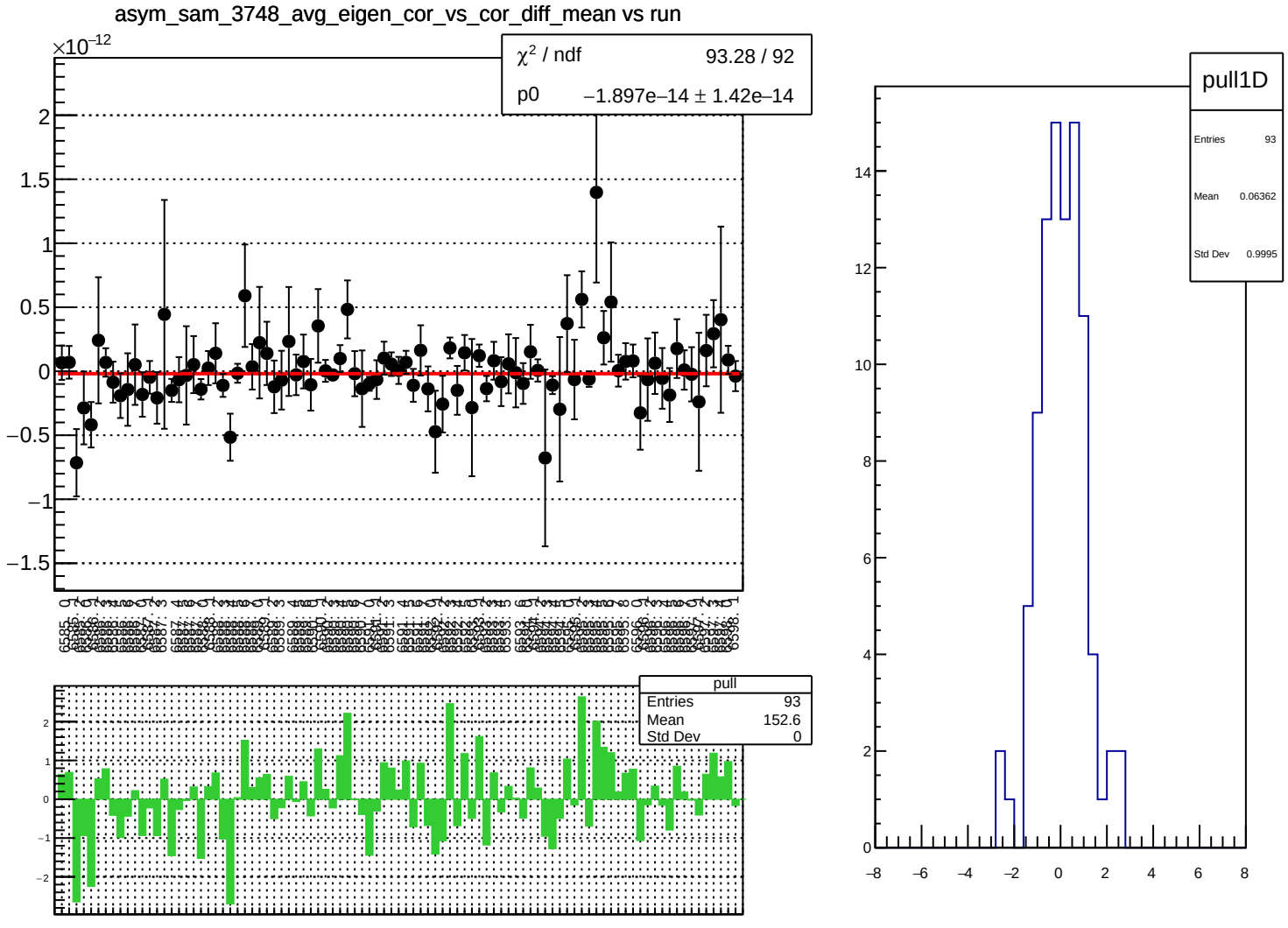

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.115e+04 / 92
p0 0.003073 ± 2.316e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

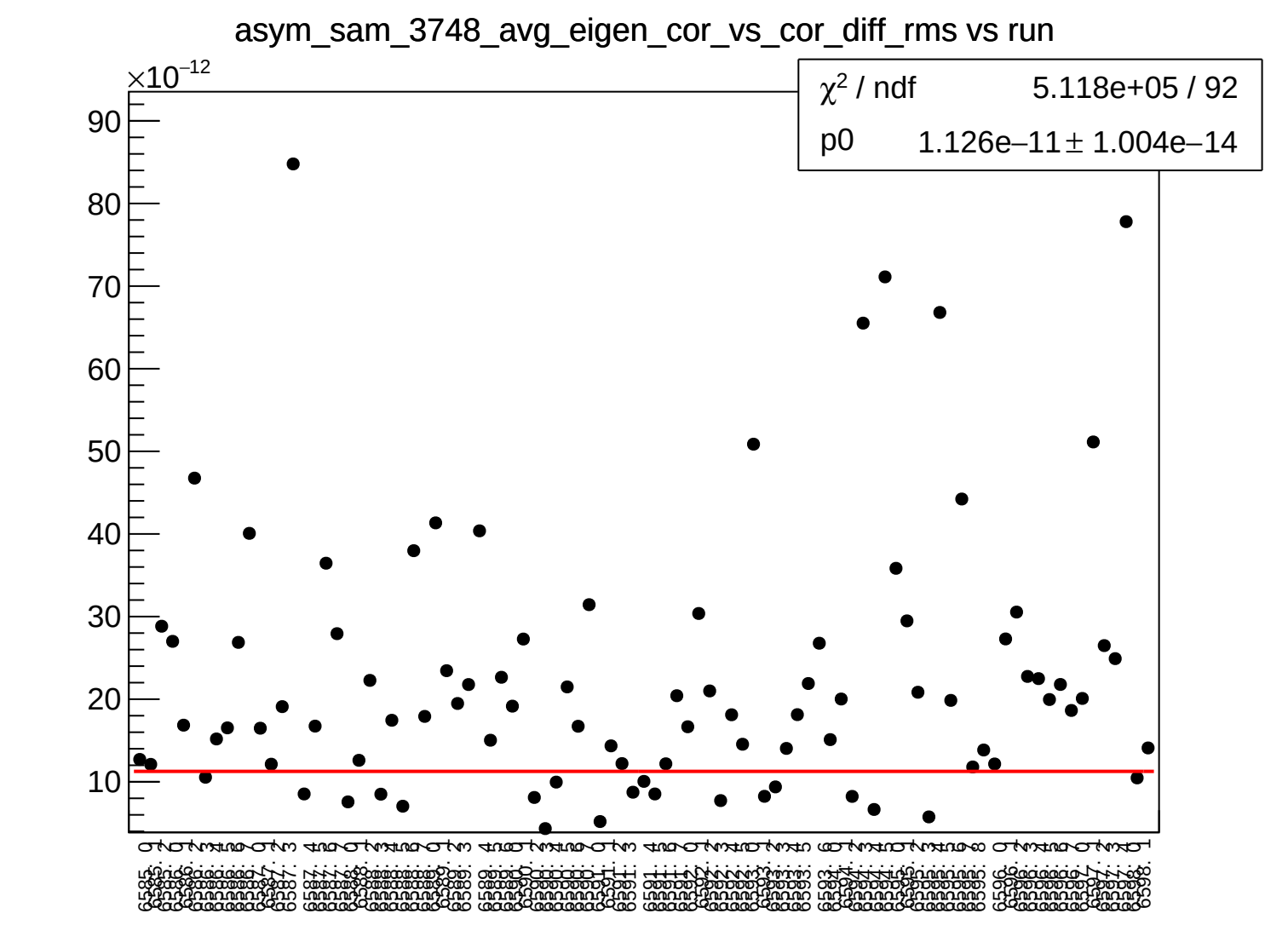

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.35 / 92
p0 0.08382 ± 0.06009
pull
Entries 93
Mean −147.3
Std Dev 0
pull1D
Entries 93
Mean 0.01347
Std Dev 0.9409

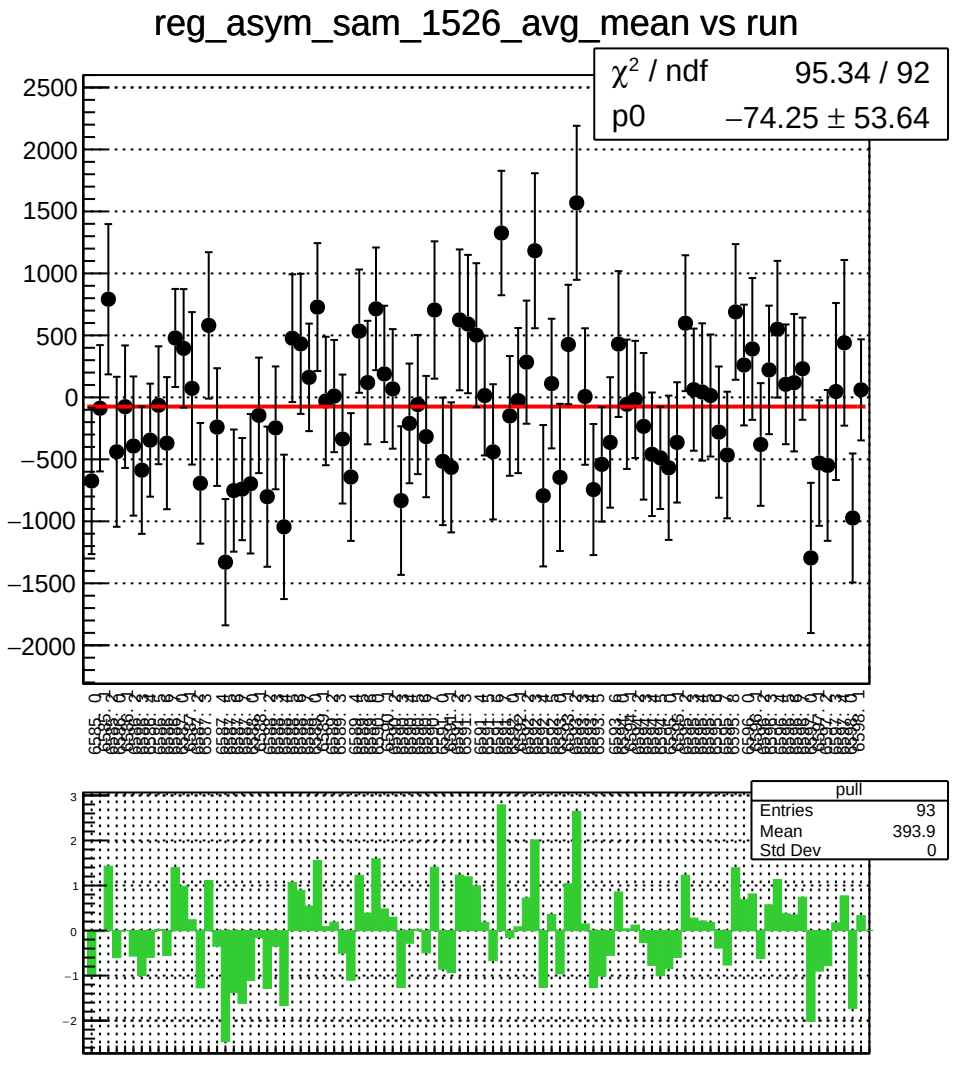

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.95e+04 / 92
p0 55.58 ± 0.04249
160
140
120
100
80
60
40

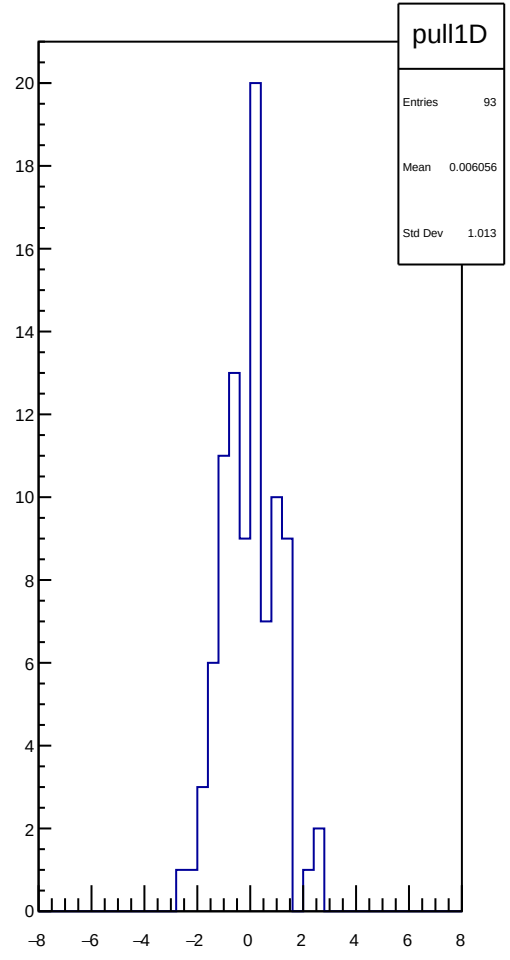

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.35 / 92
p0 0.08382 ± 0.06009
pull
Entries 93
Mean −147.3
Std Dev 0
pull1D
Entries 93
Mean 0.01347
Std Dev 0.9409

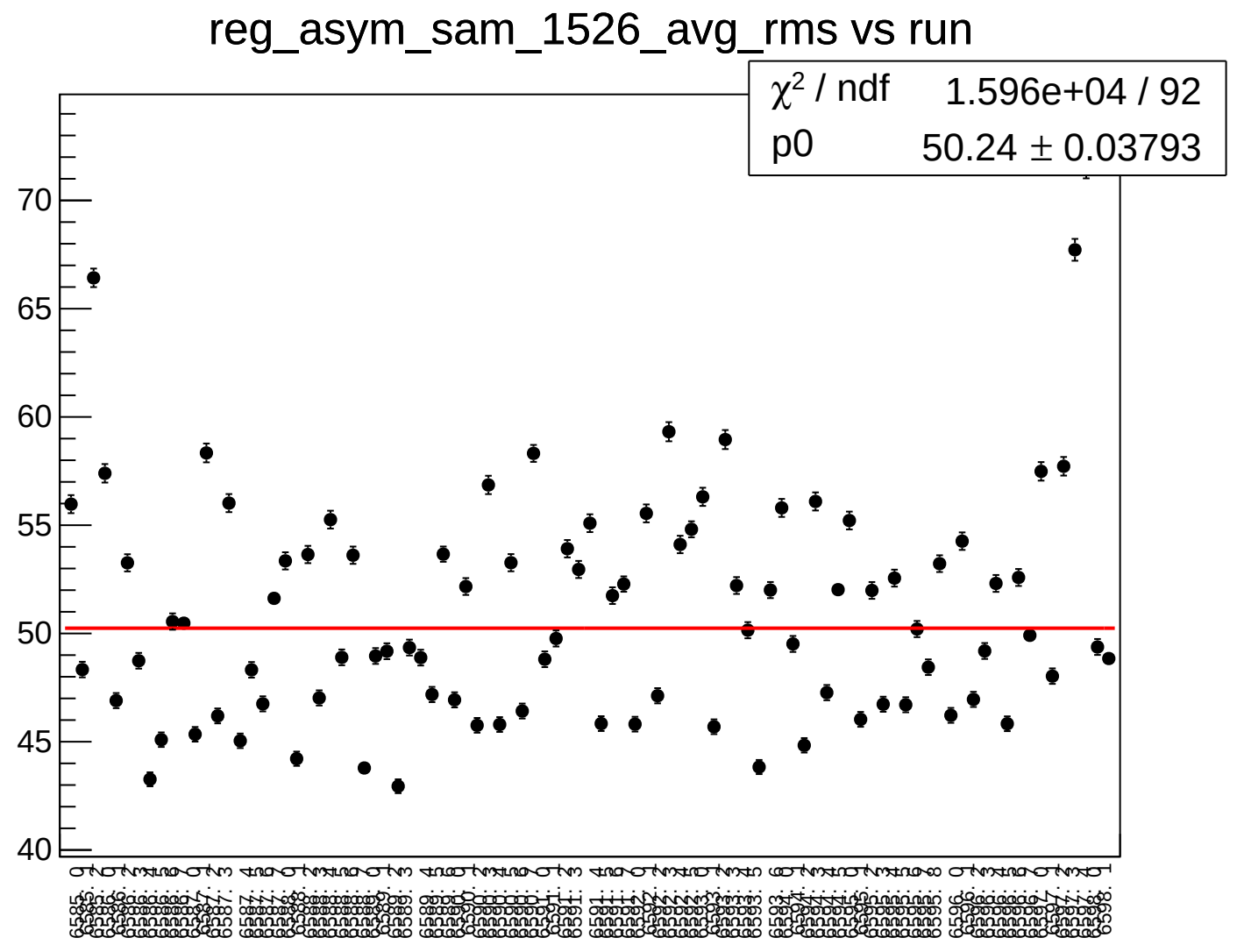

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.95e+04 / 92
p0 55.58 ± 0.04249
160
140
120
100
80
60
40

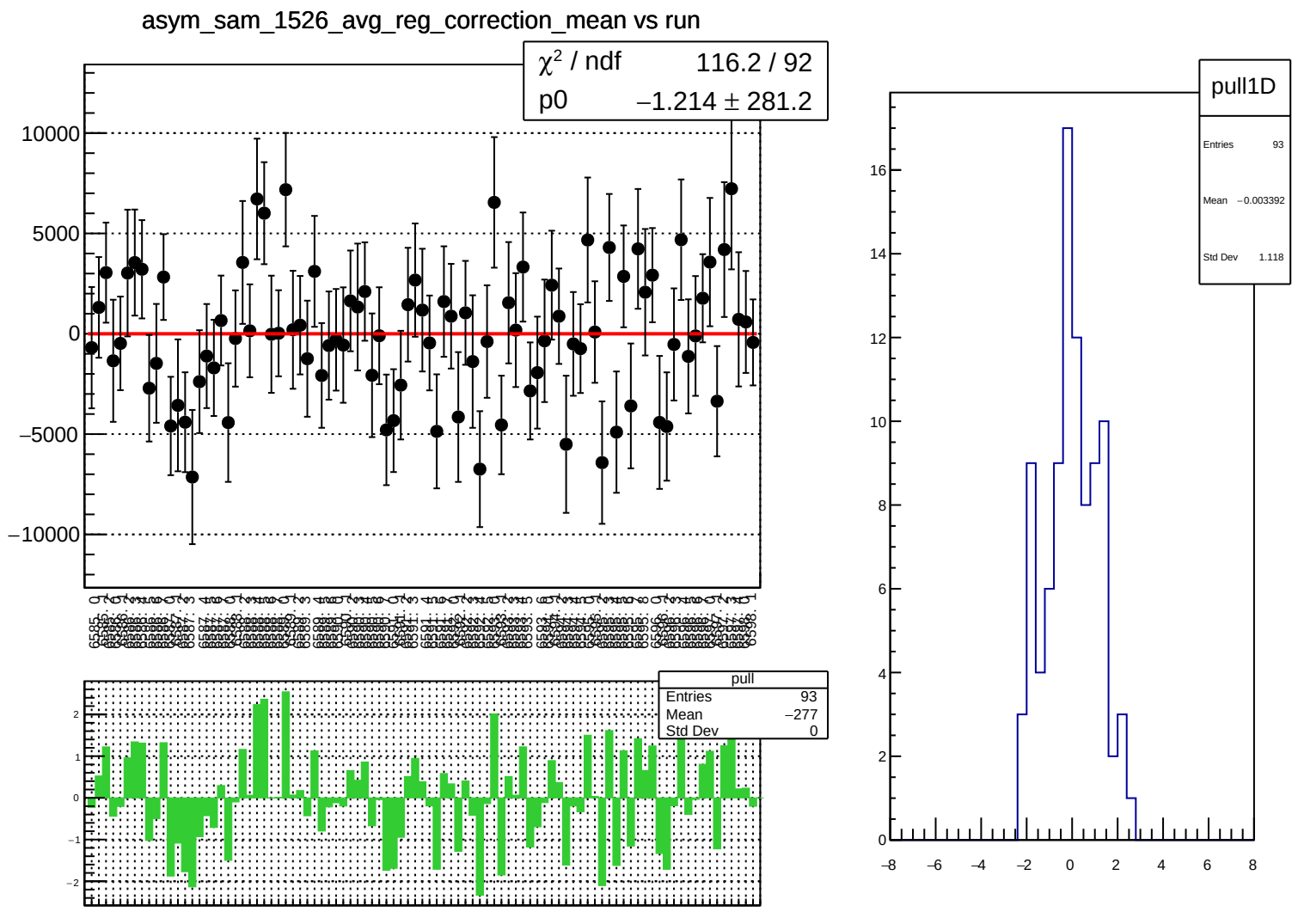

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.28 / 92
p0 −1.897e−14 ± 1.42e−14
pull
Entries 93
Mean 152.6
Std Dev 0
pull1D
Entries 93
Mean 0.06362
Std Dev 0.9995

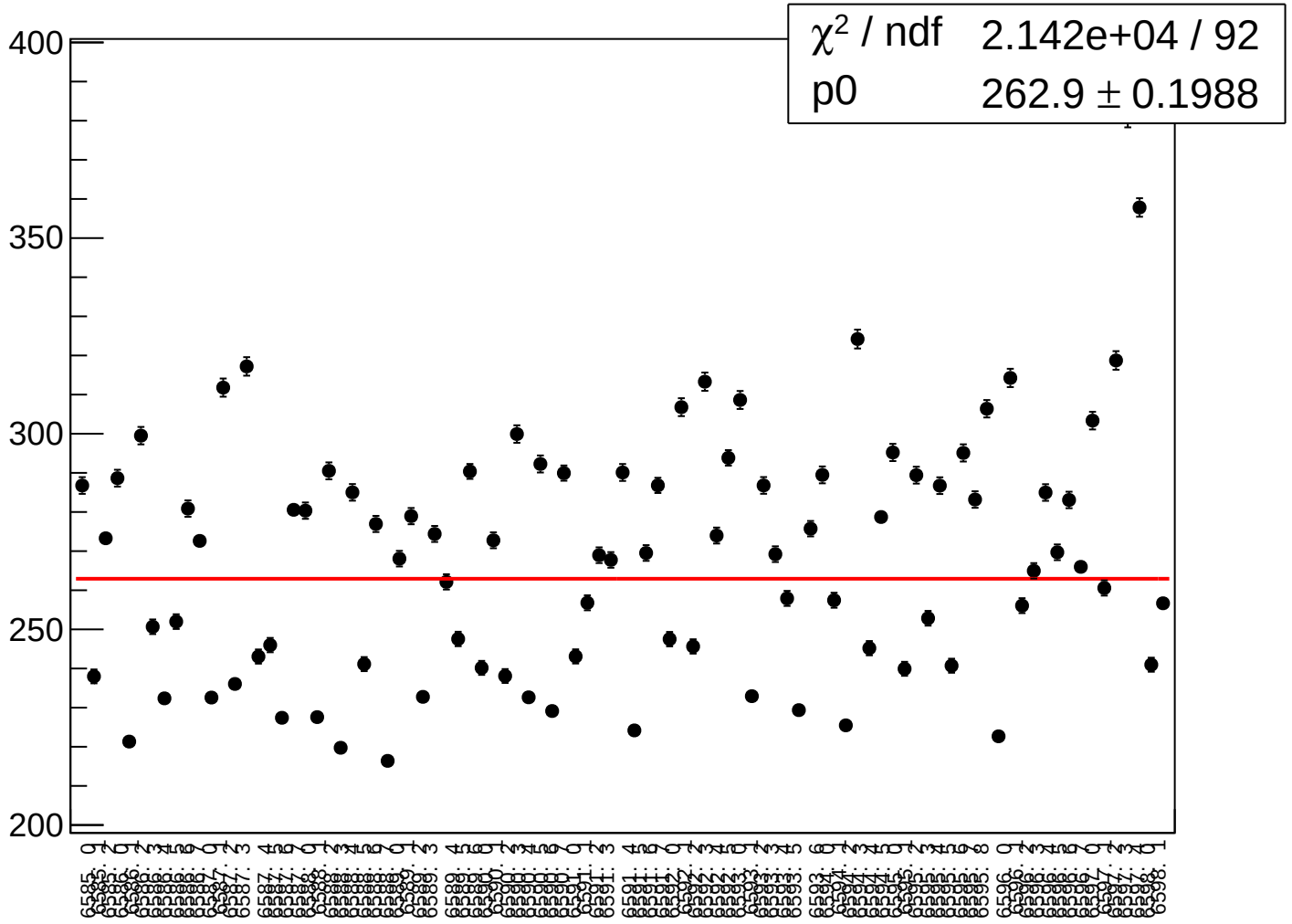

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 5.118e+05 / 92
p0 1.126e−11 ± 1.004e−14

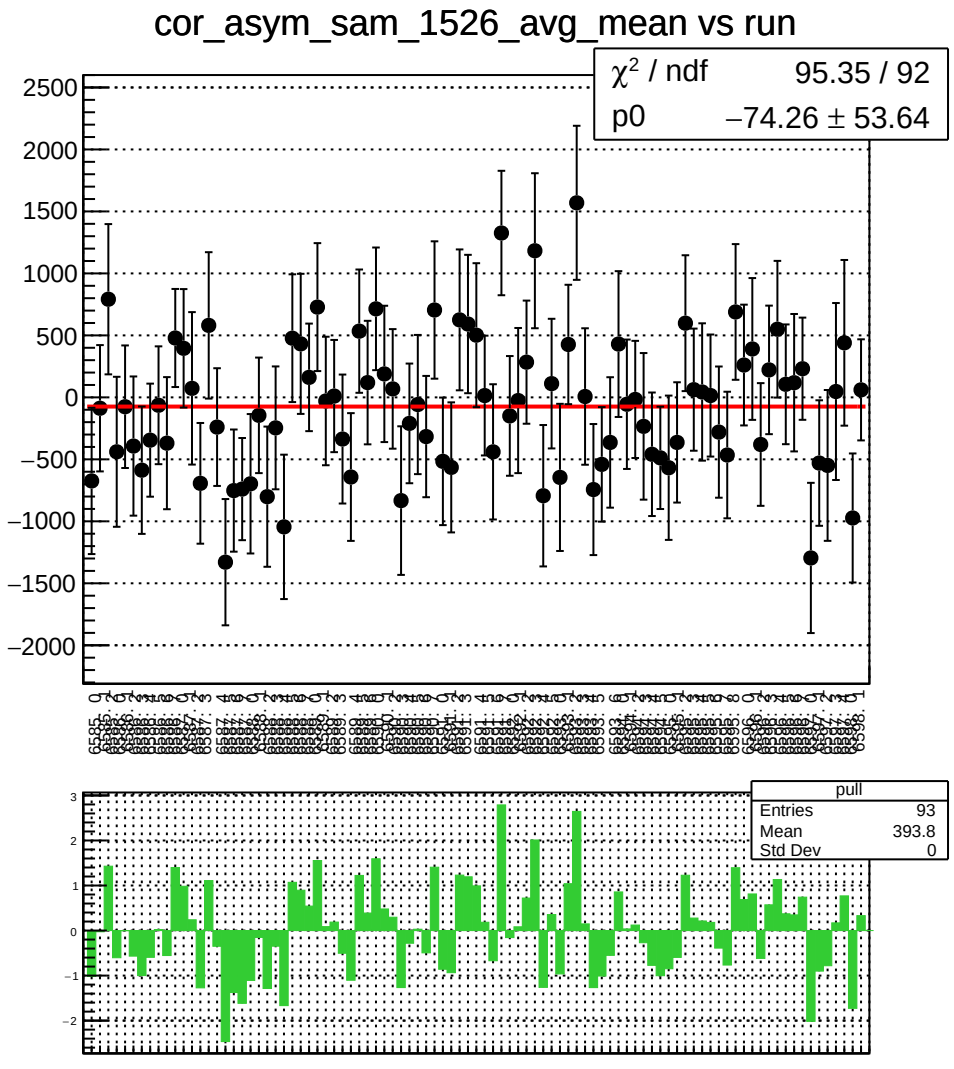

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 95.34 / 92
p0 −74.25 ± 53.64
pull
Entries 93
Mean 393.9
Std Dev 0

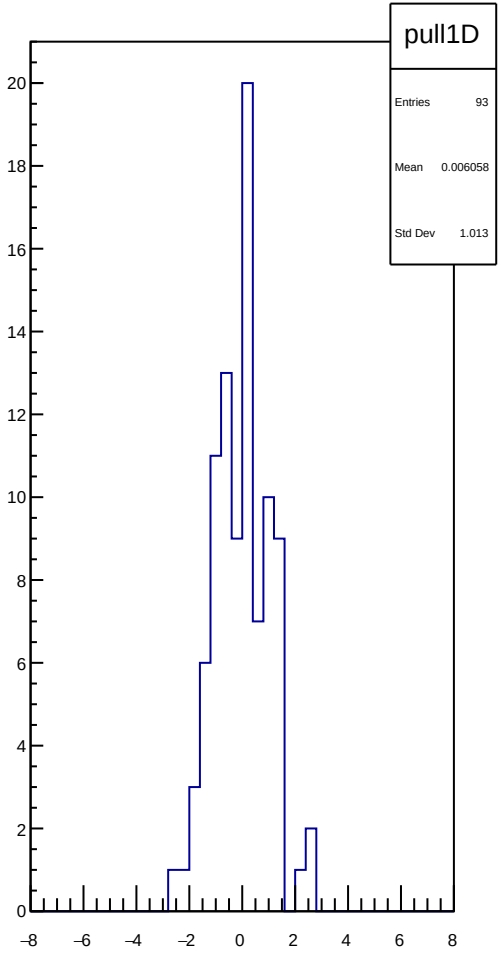

pull1D
Entries 93
Mean 0.006056
Std Dev 1.013

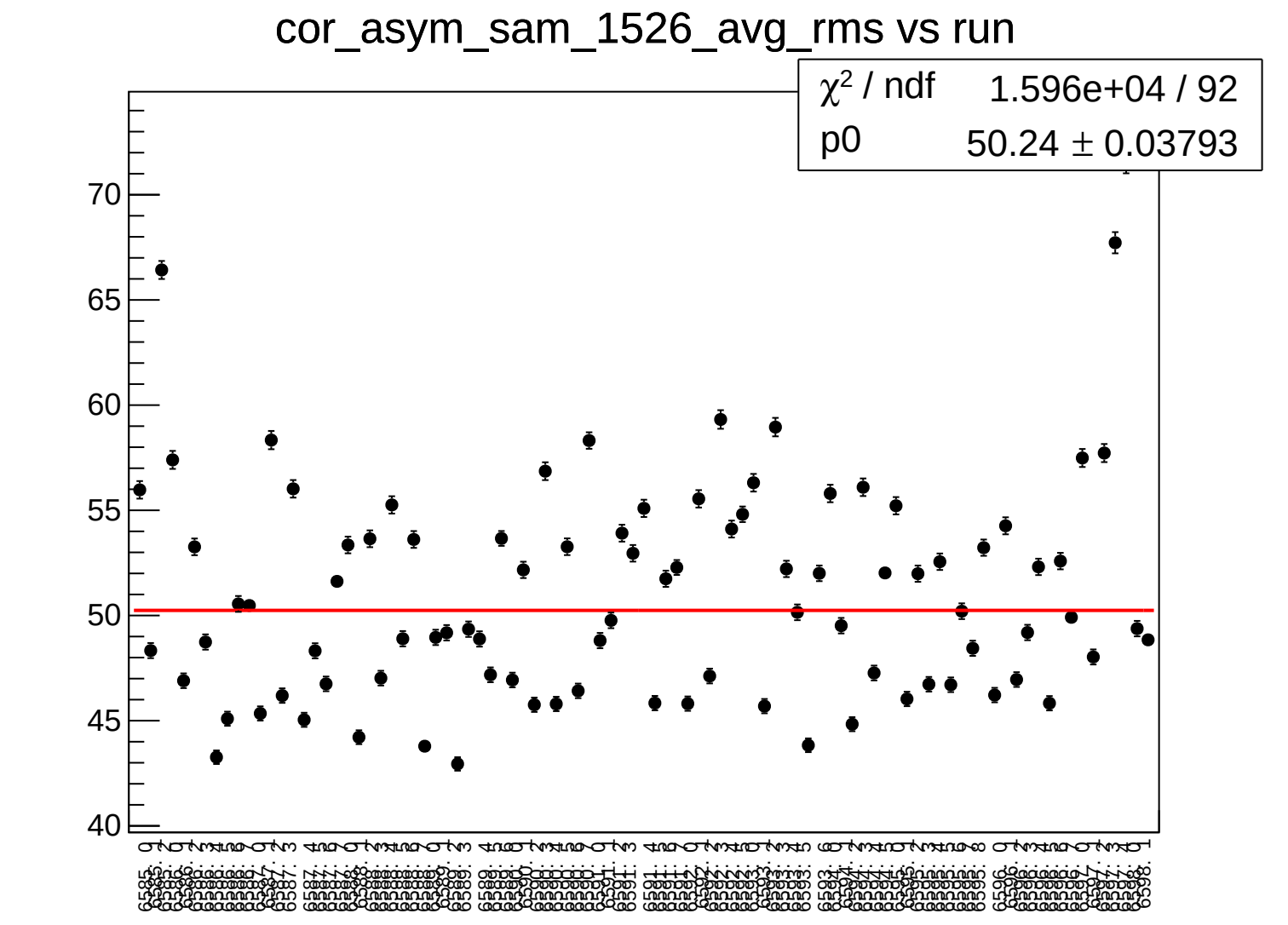

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 1.596e+04 / 92
p0 50.24 ± 0.03793
70
65
60
55
50
45
40

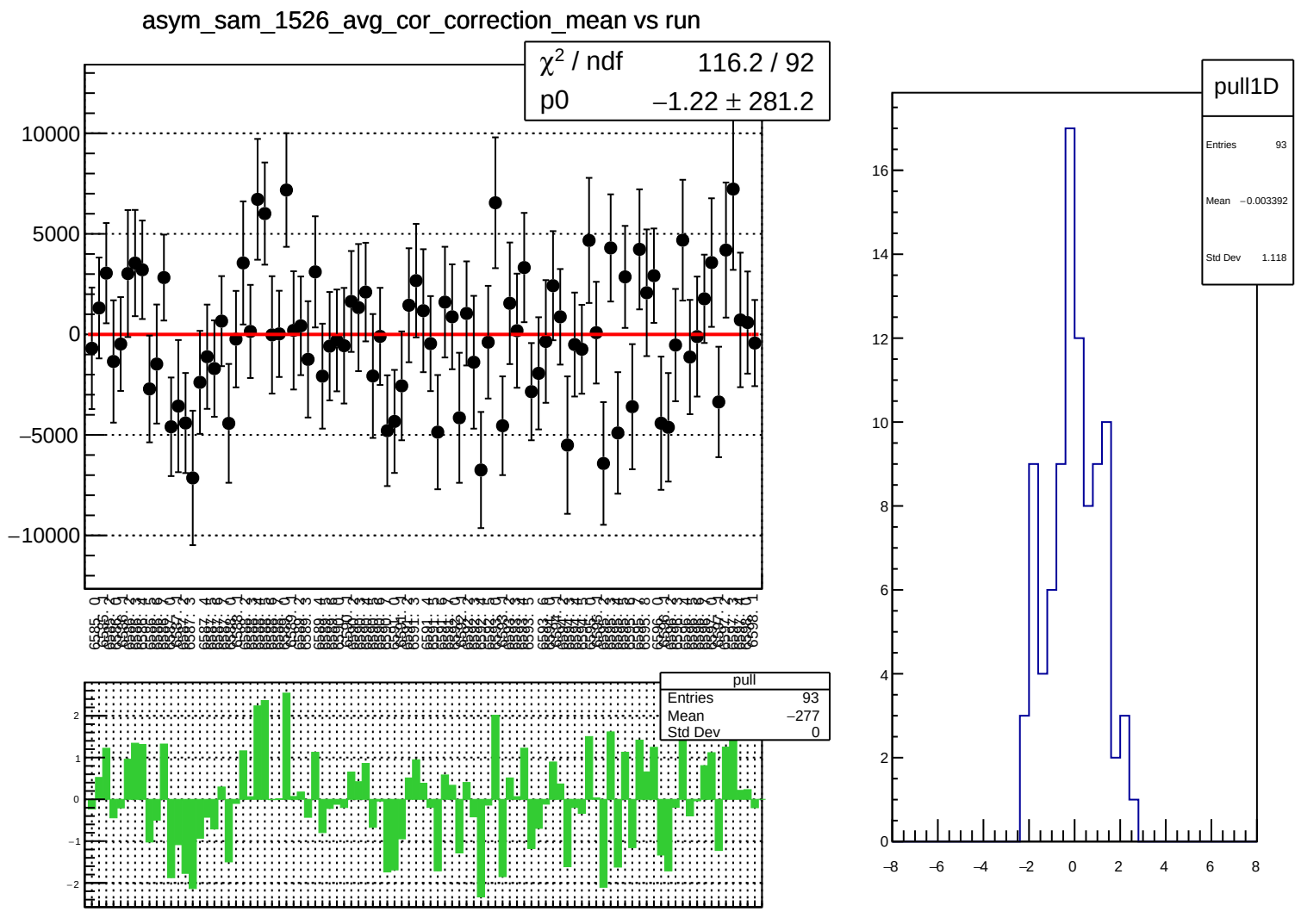

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 116.2 / 92
p0 −1.214 ± 281.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −277
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003392
Std Dev 1.118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

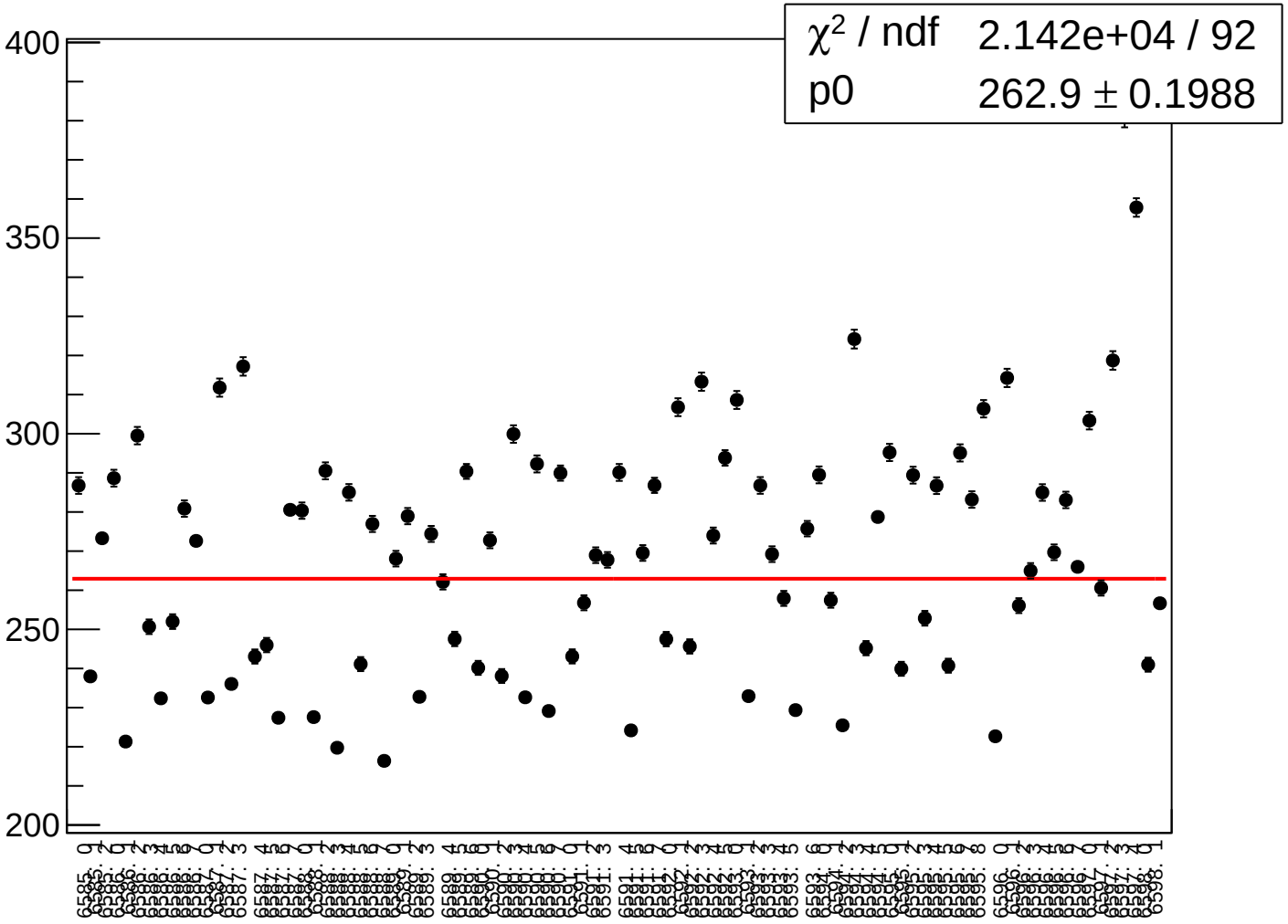

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2.142e+04 / 92
p0 262.9 ± 0.1988
400
350
300
250
200

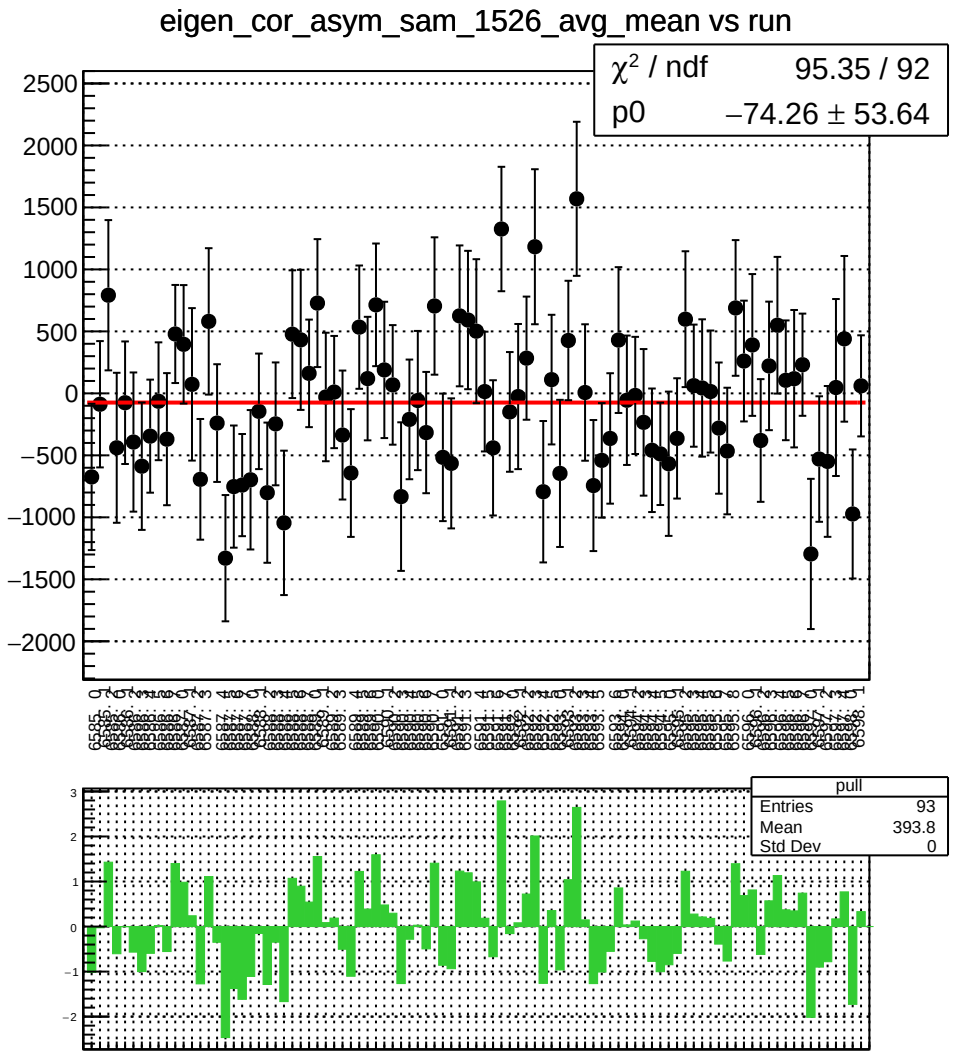

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 95.35 / 92
p0 −74.26 ± 53.64
pull
Entries 93
Mean 393.8
Std Dev 0

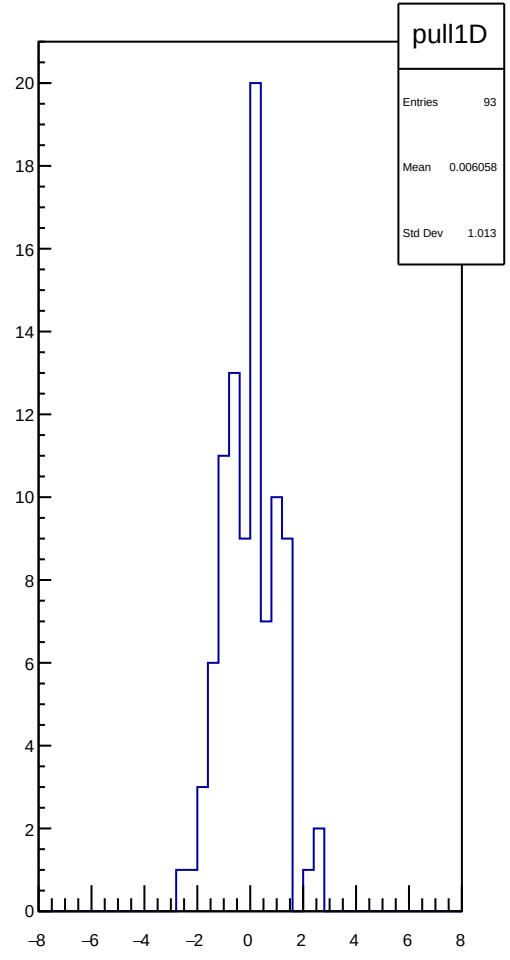

pull1D
Entries 93
Mean 0.006058
Std Dev 1.013

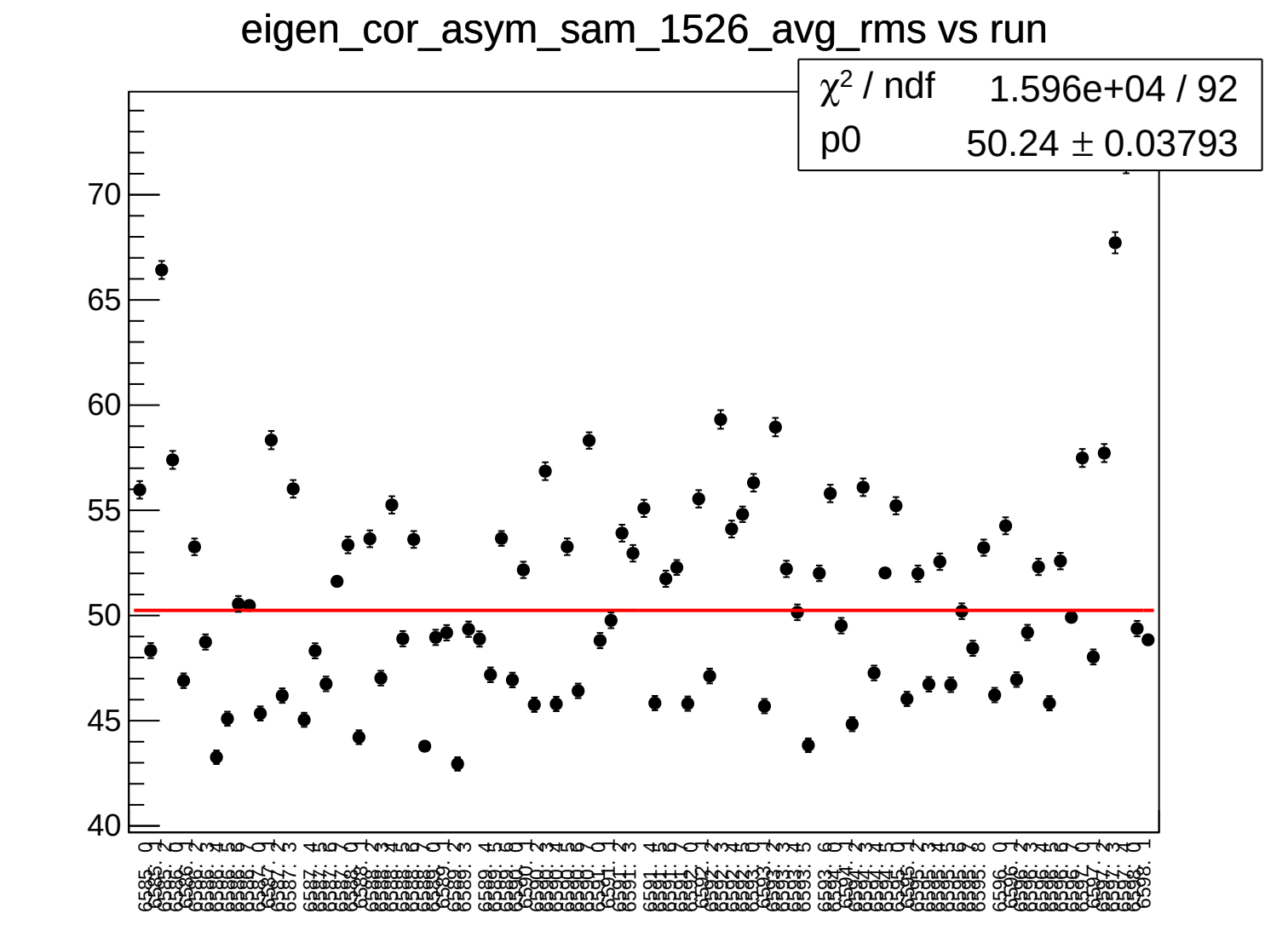

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.596e+04 / 92
p0 50.24 ± 0.03793
70
65
60
55
50
45
40

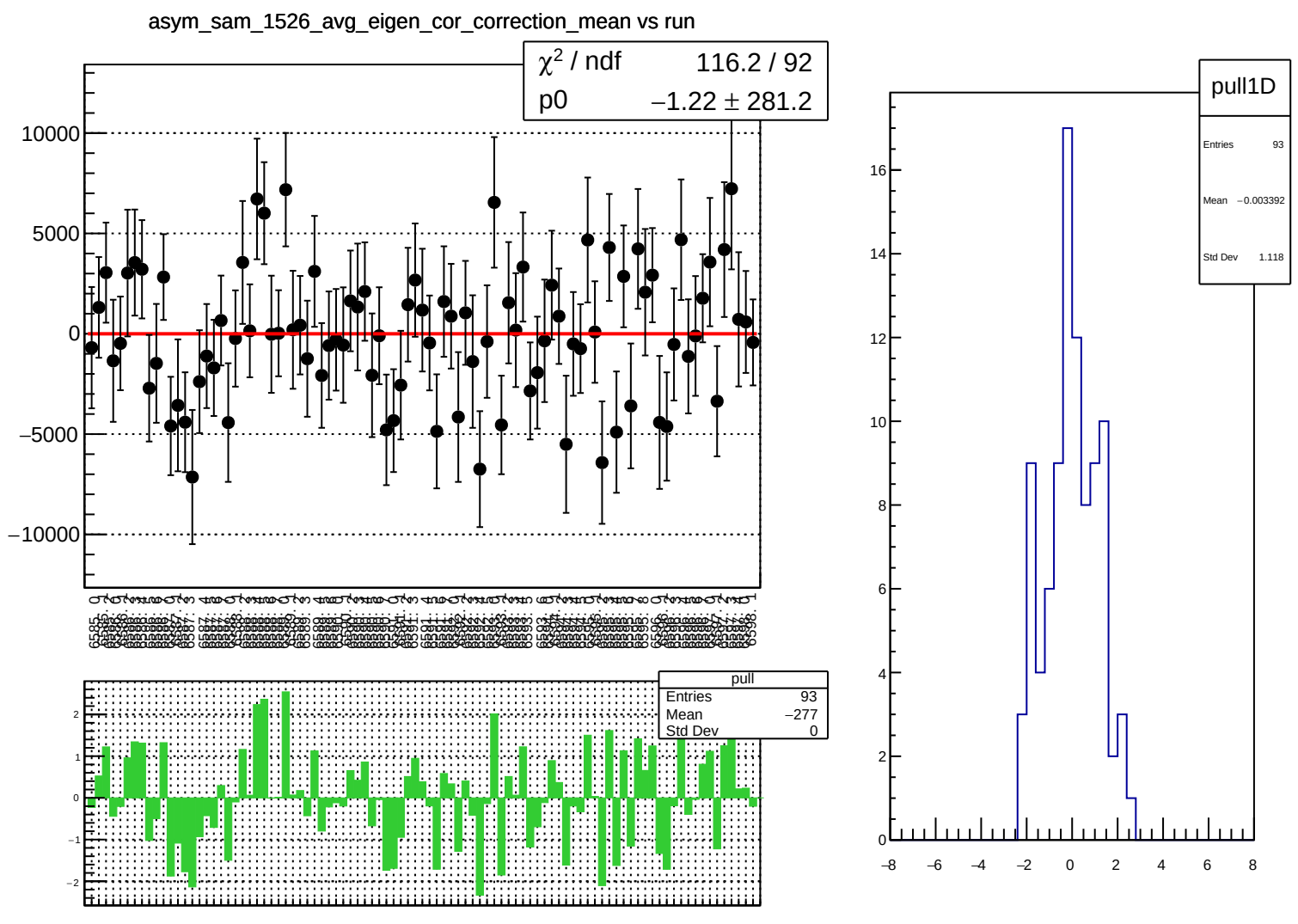

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 116.2 / 92
p0 −1.22 ± 281.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −277
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003392
Std Dev 1.118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

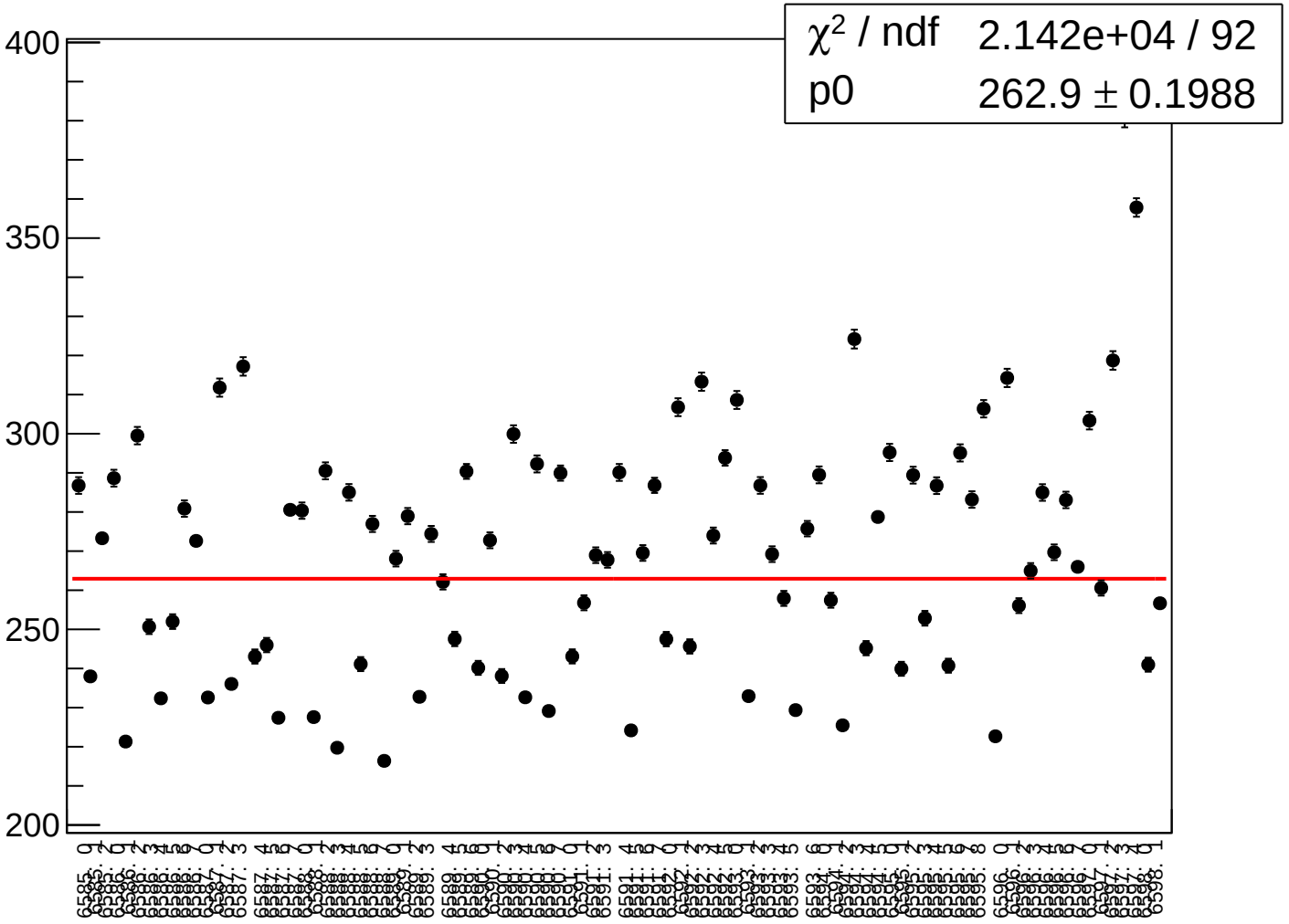

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2.142e+04 / 92
p0 262.9 ± 0.1988
400
350
300
250
200

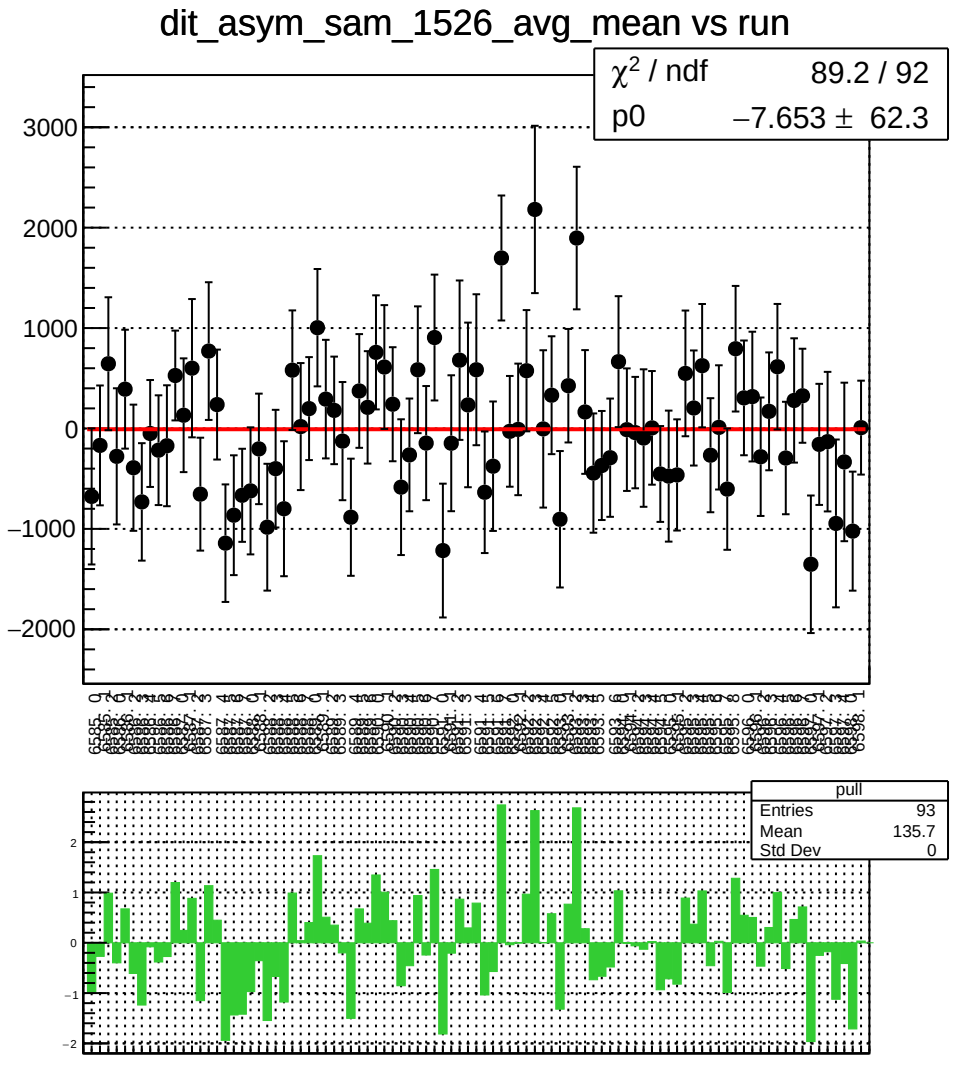

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 95.35 / 92
p0 −74.26 ± 53.64
pull
Entries 93
Mean 393.8
Std Dev 0

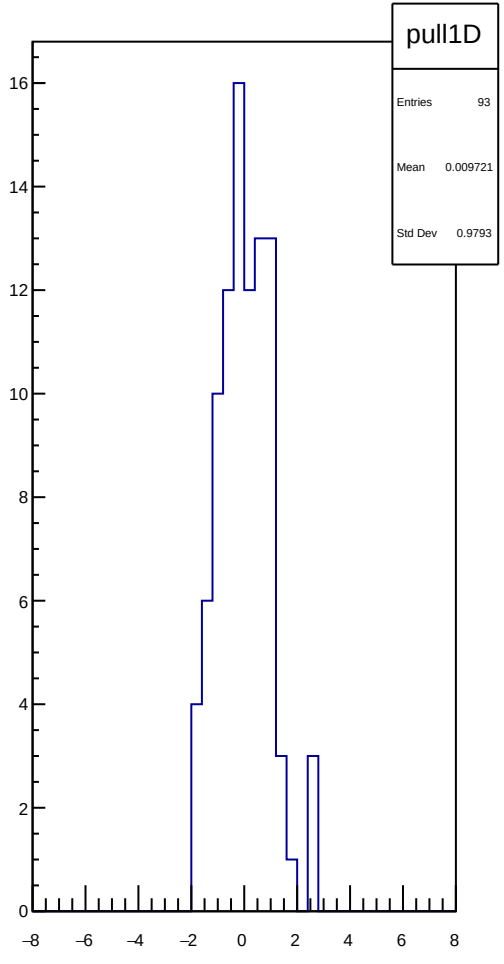

pull1D
Entries 93
Mean 0.006058
Std Dev 1.013


eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 1.596e+04 / 92
p0 50.24 ± 0.03793
70
65
60
55
50
45
40

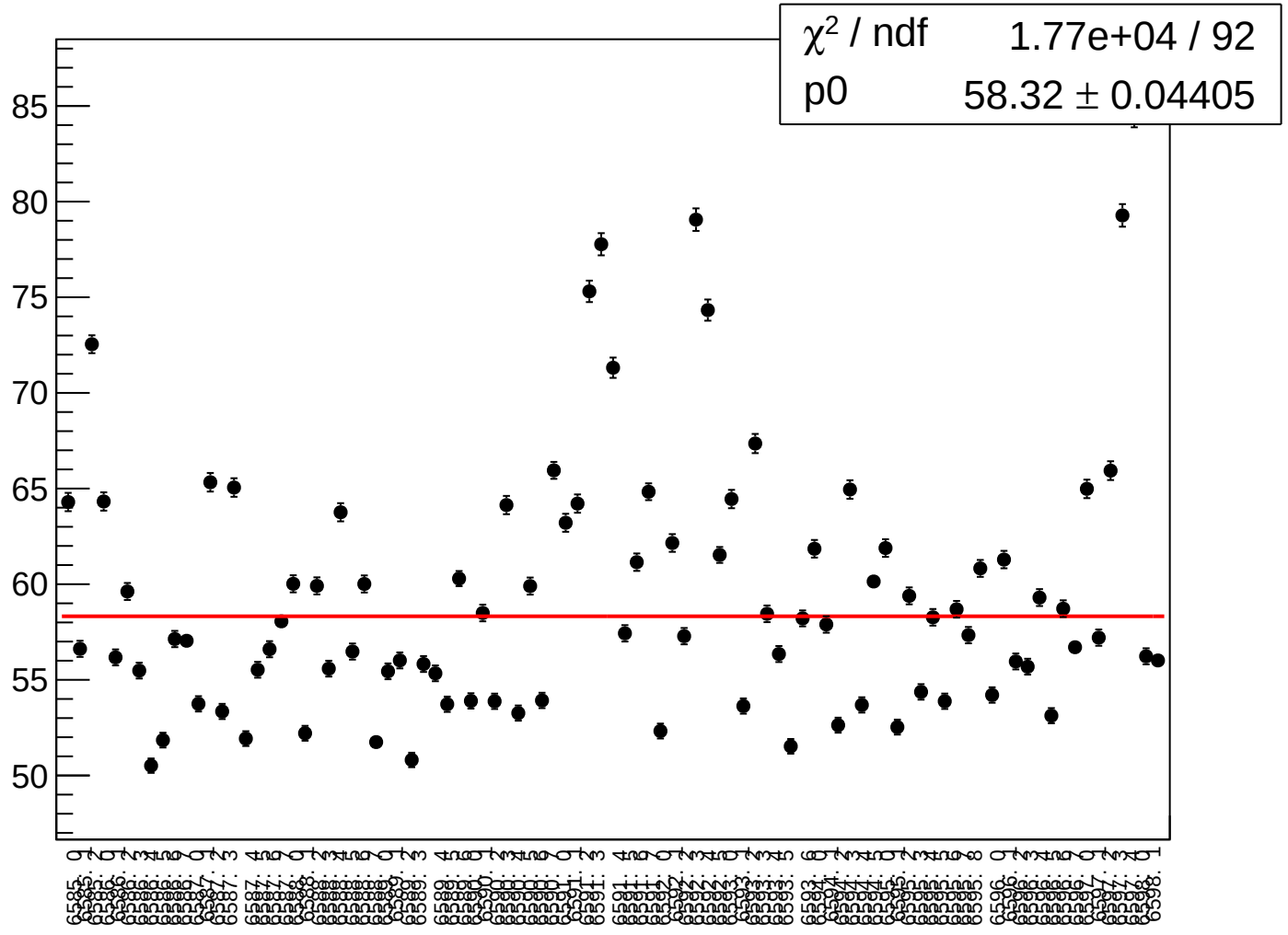

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 116.2 / 92
p0 −1.22 ± 281.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −277
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003392
Std Dev 1.118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

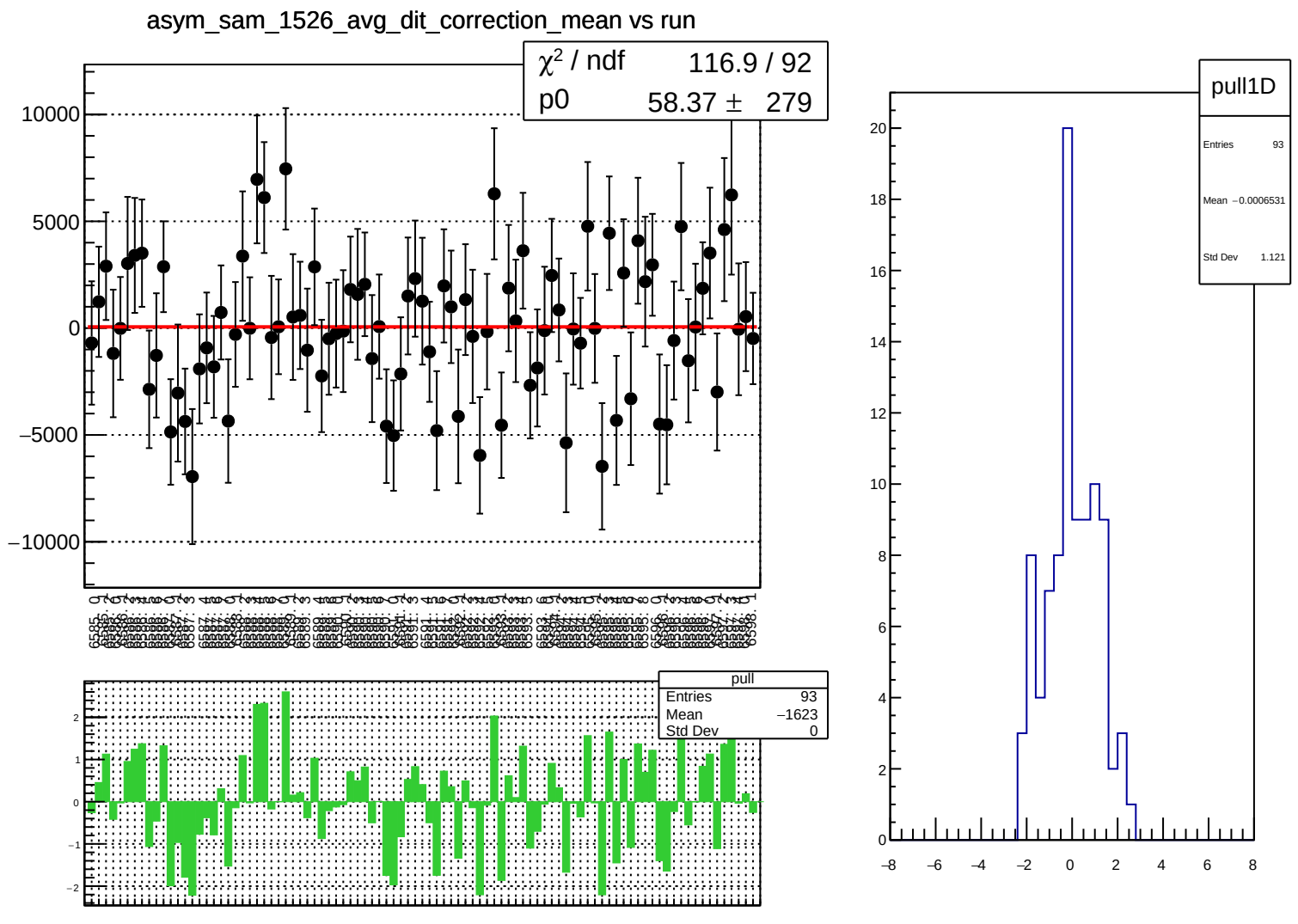

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.142e+04 / 92
p0 262.9 ± 0.1988
400
350
300
250
200

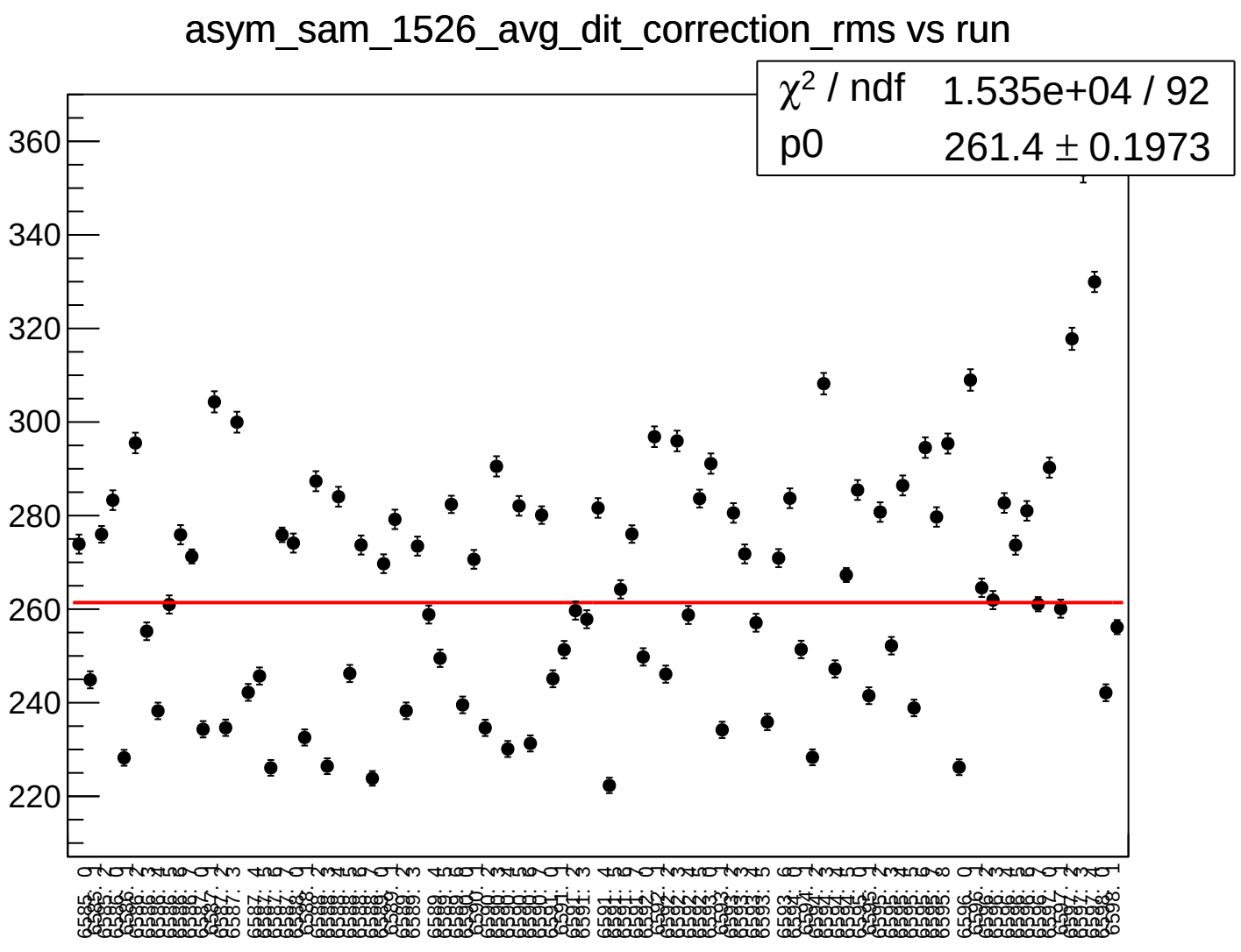

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 89.2 / 92
p0 −7.653 ± 62.3
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 135.7
Std Dev 0
2
1
0
−1
−2

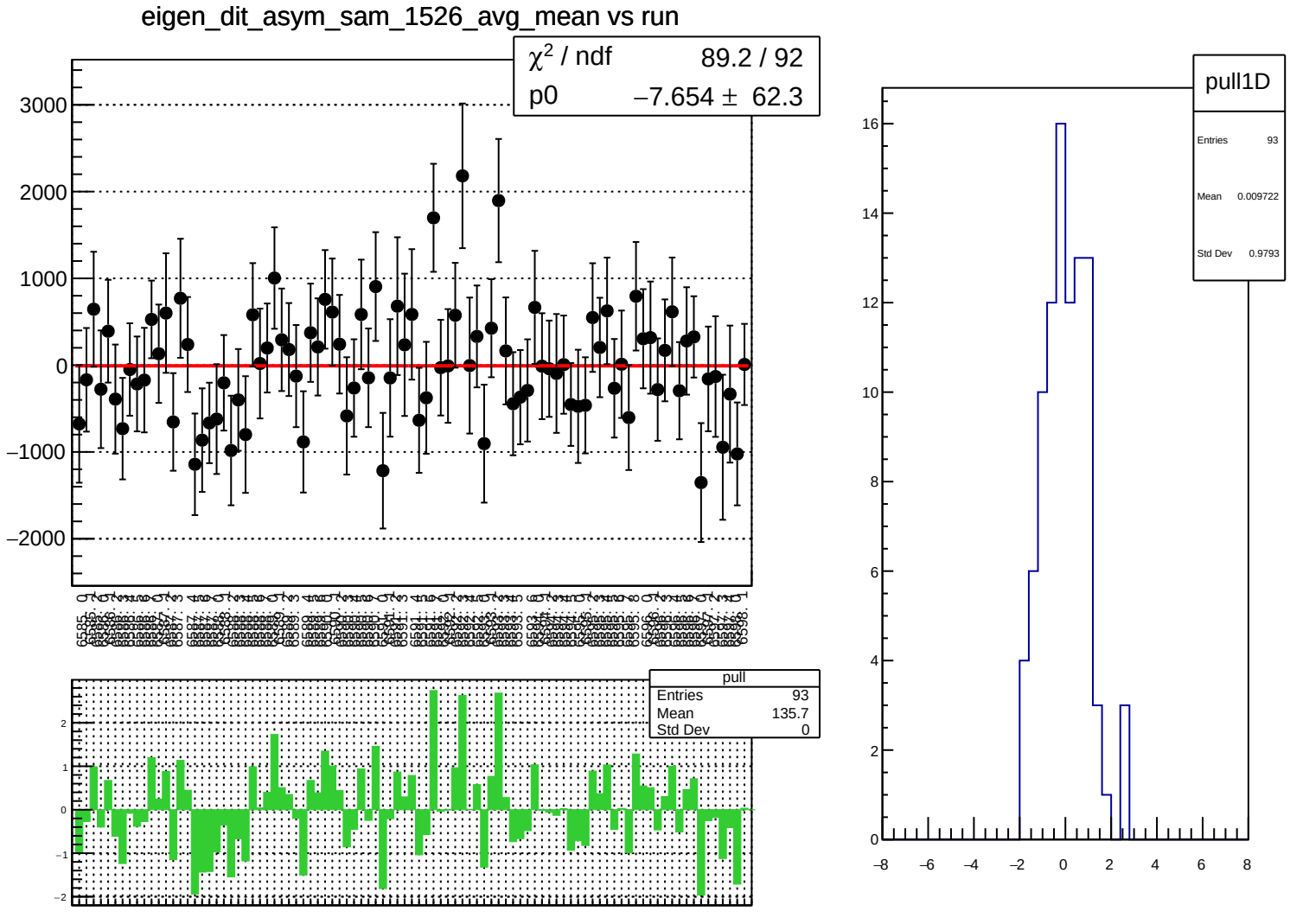

pull1D
Entries 93
Mean 0.009721
Std Dev 0.9793
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

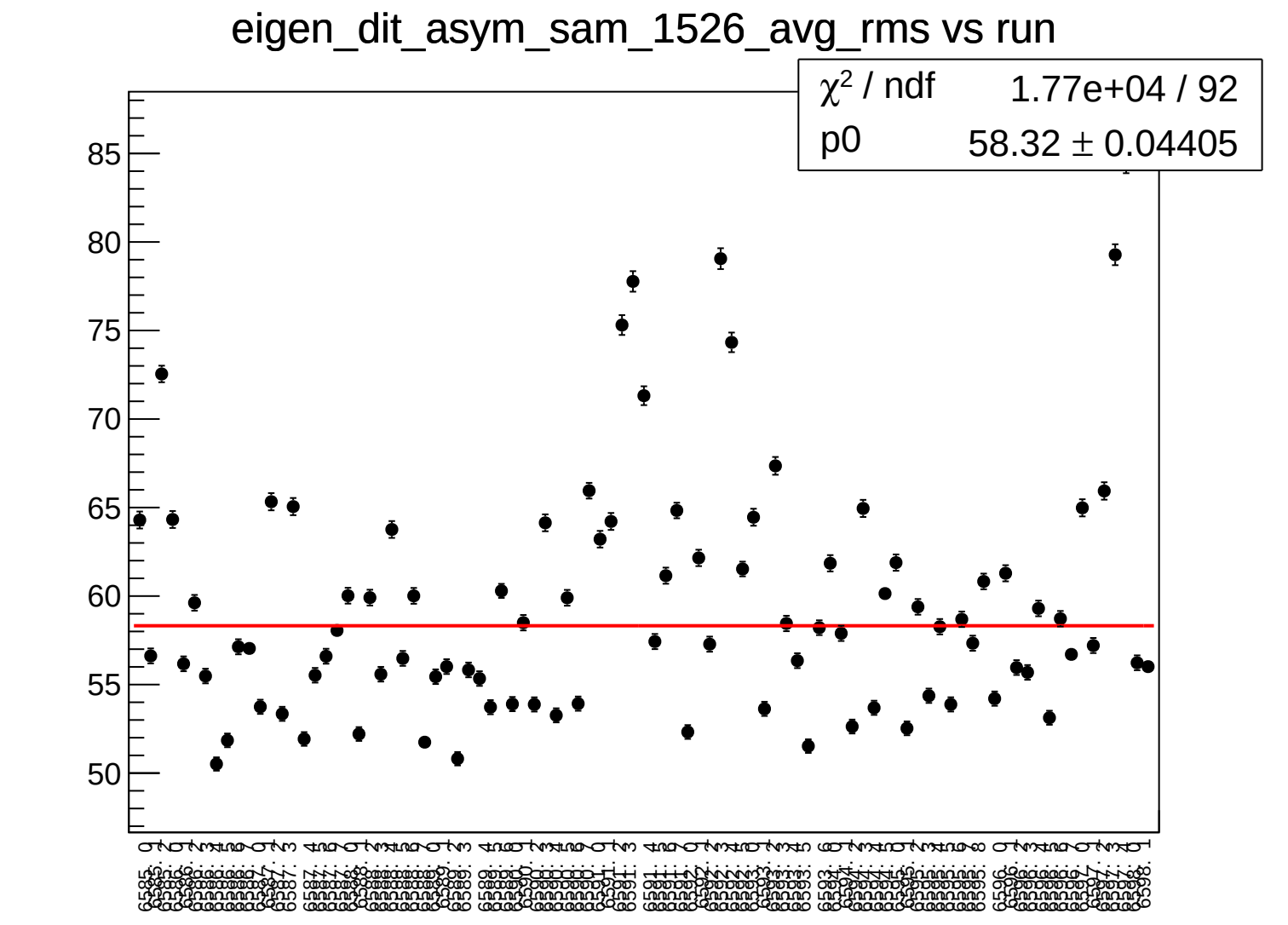
dit_asym_sam_1526_avg_rms vs run

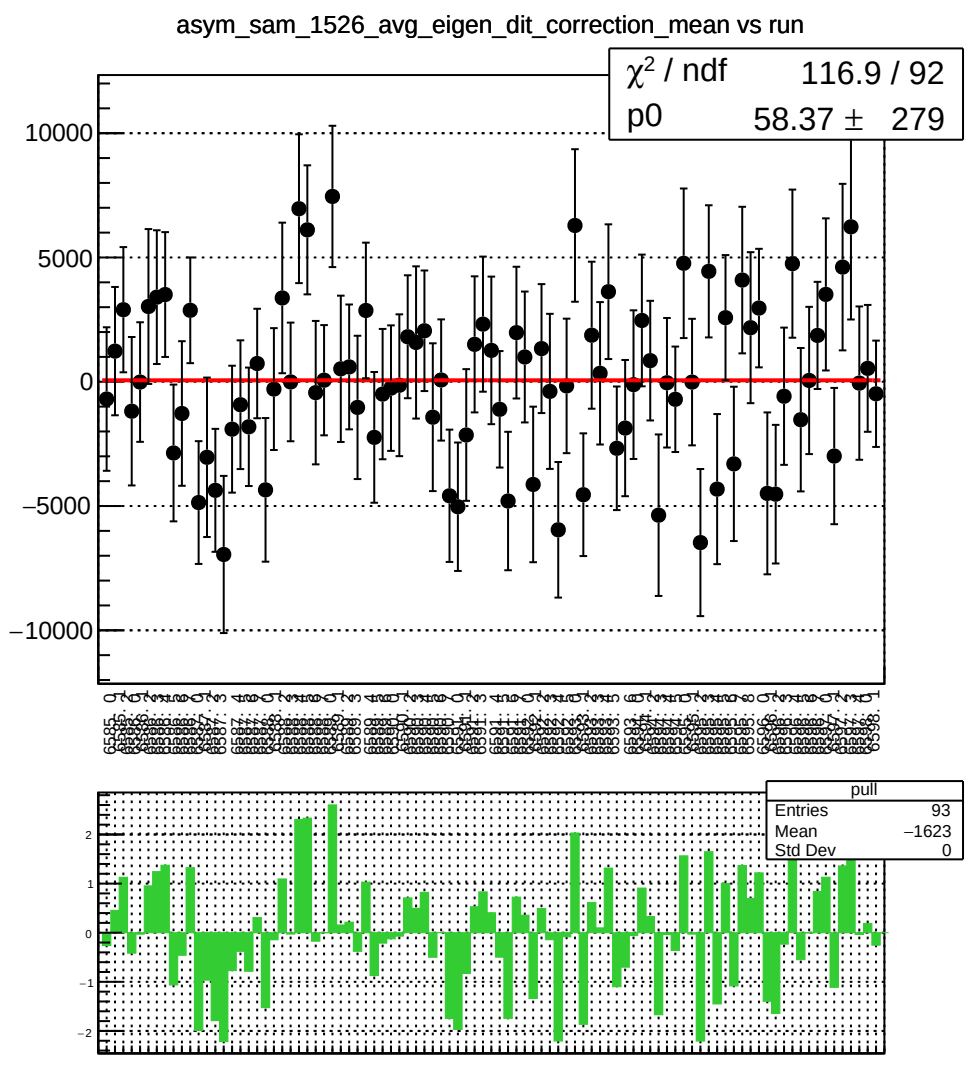


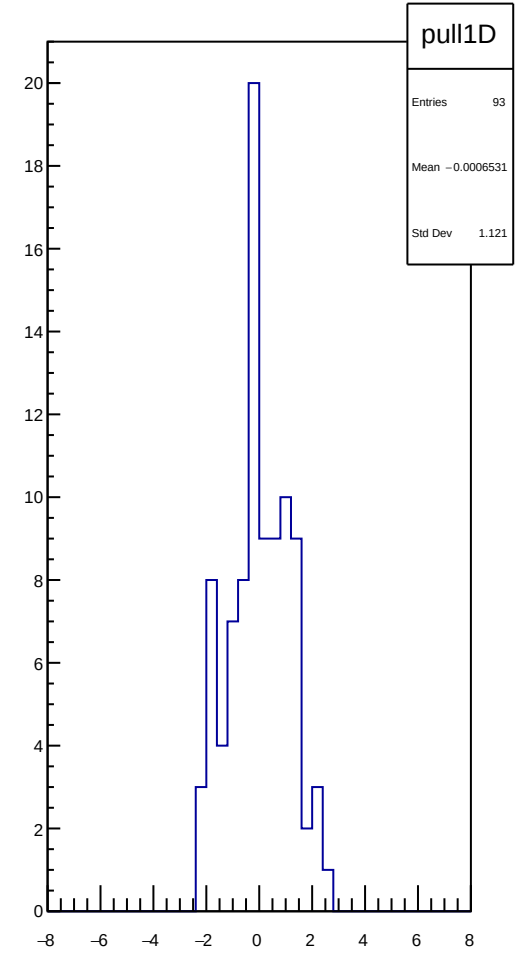

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 116.9 / 92
p0 58.37 ± 279
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −1623
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0006531
Std Dev 1.121
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

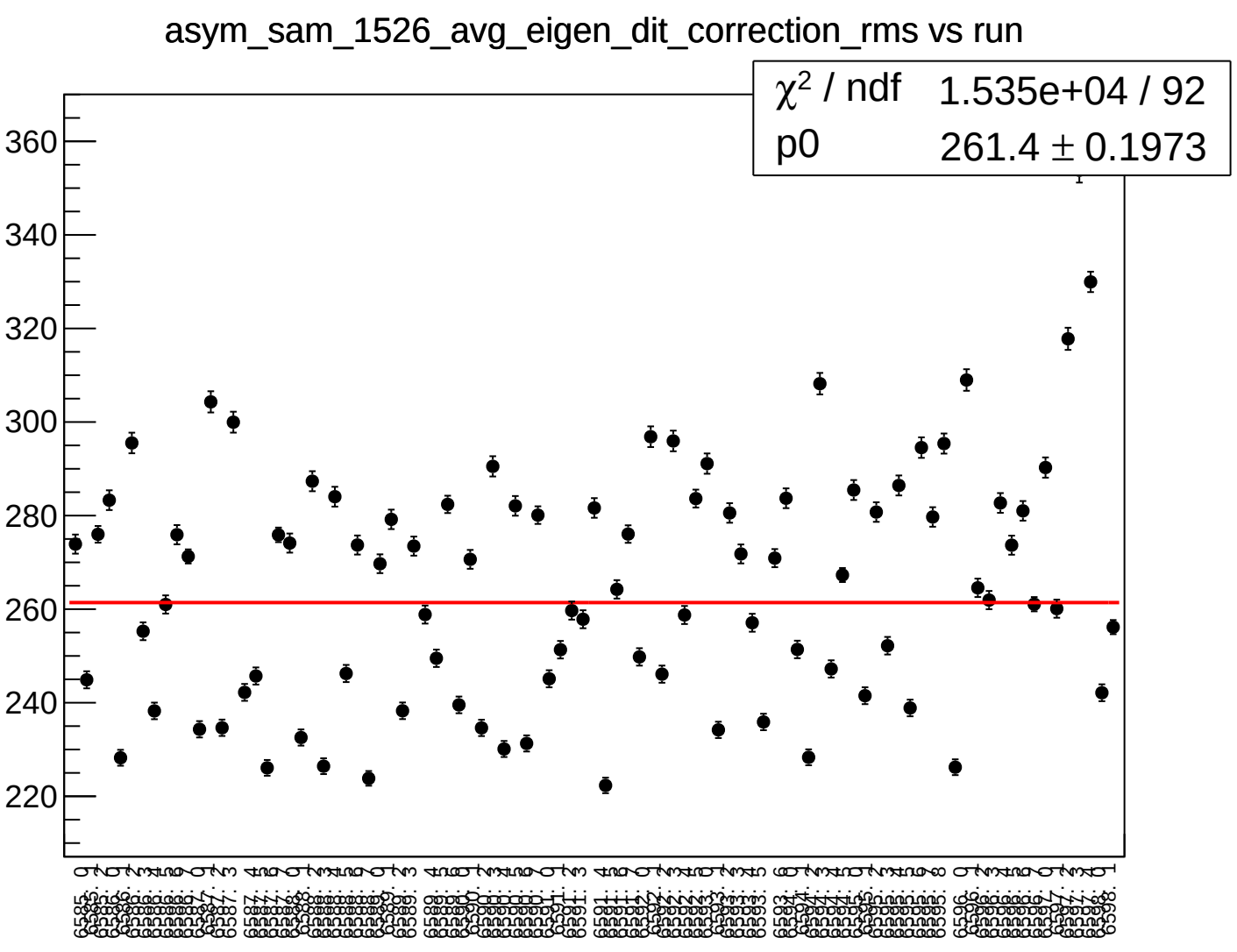

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.535e+04 / 92
p0 261.4 ± 0.1973
360
340
320
300
280
260
240
220

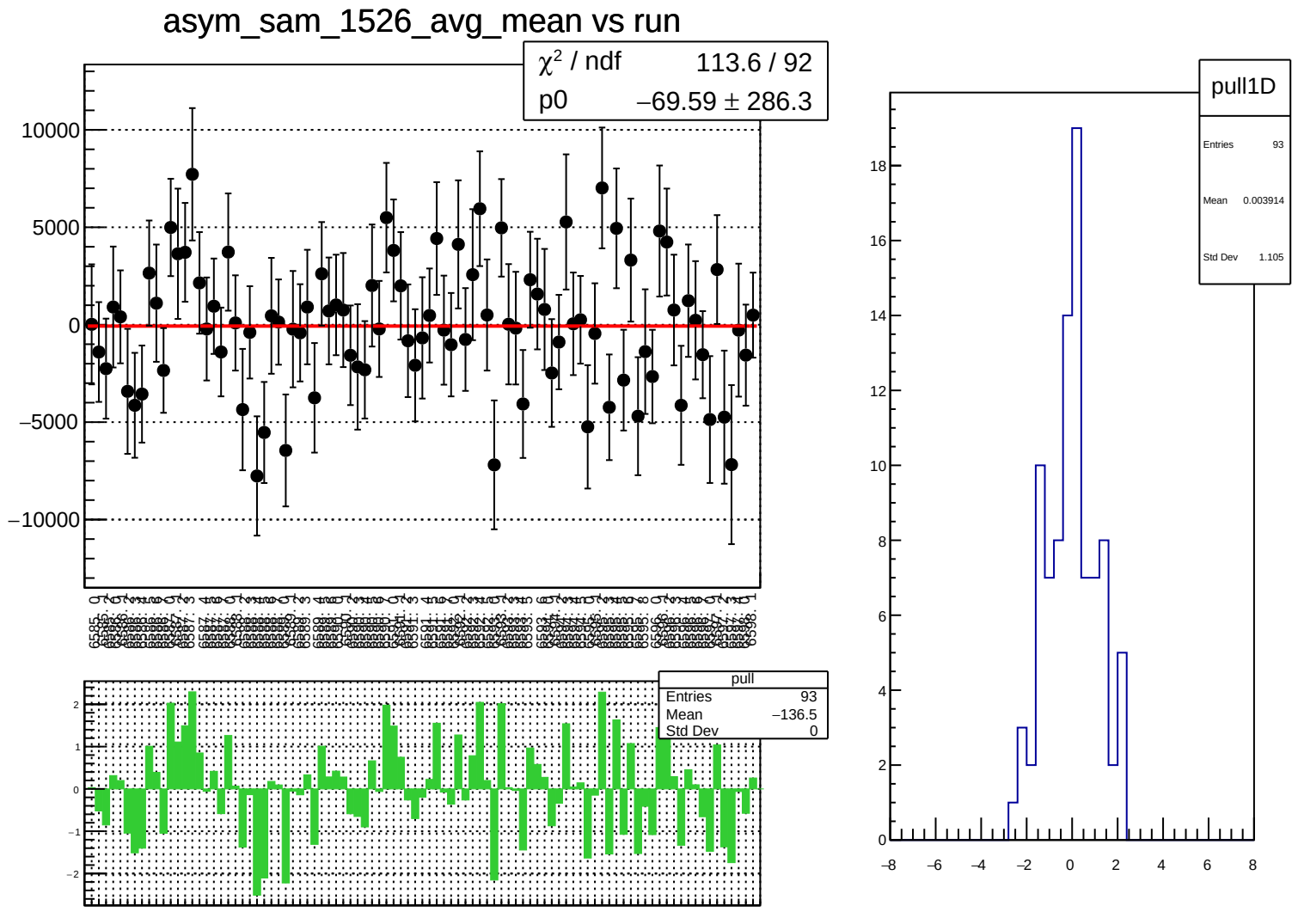

eigen_dit_asym_sam_1526_avg_mean vs run
χ^2 / ndf 89.2 / 92
p0 −7.654 ± 62.3
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 135.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.009722
Std Dev 0.9793
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

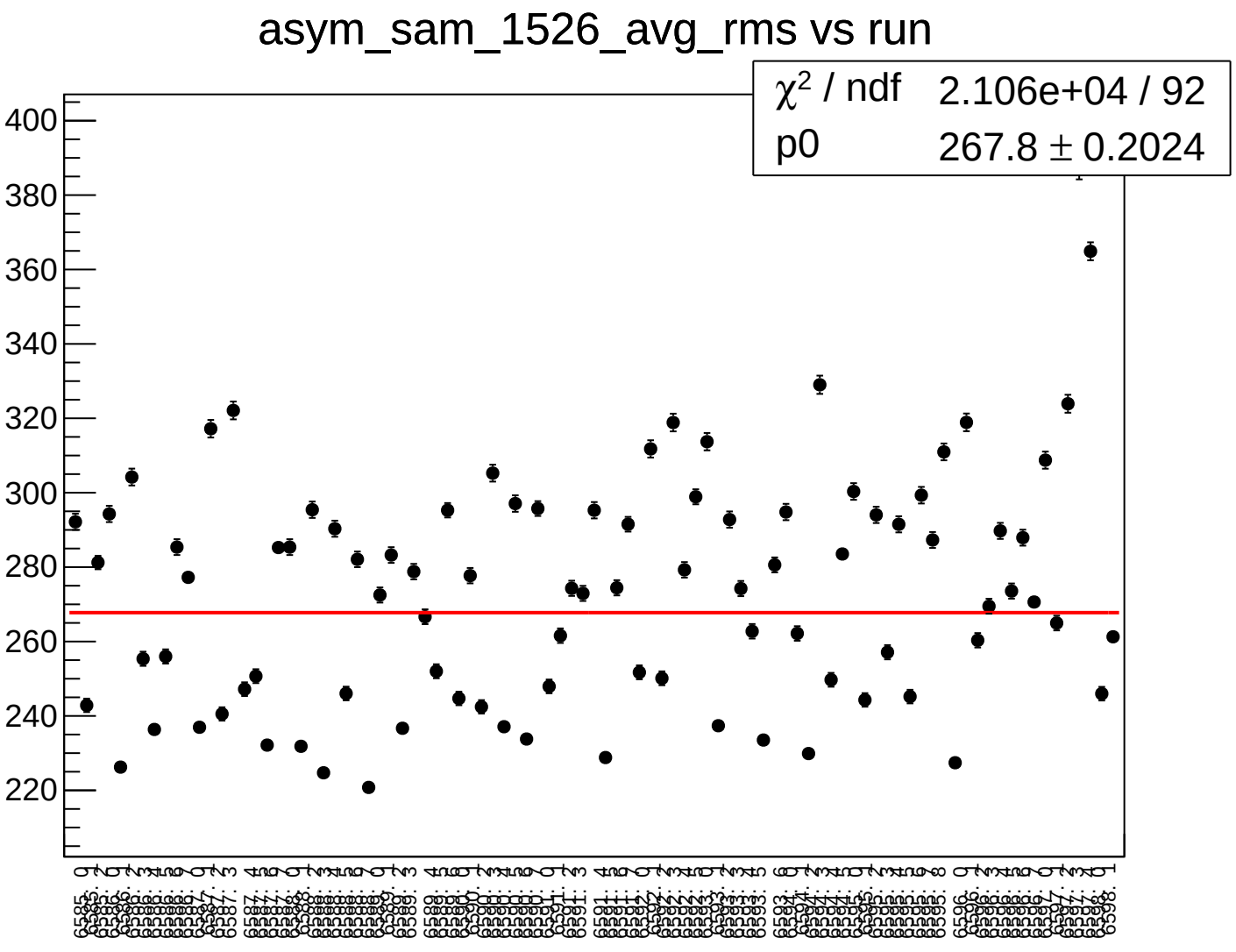

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.77e+04 / 92
p0 58.32 ± 0.04405
85
80
75
70
65
60
55
50

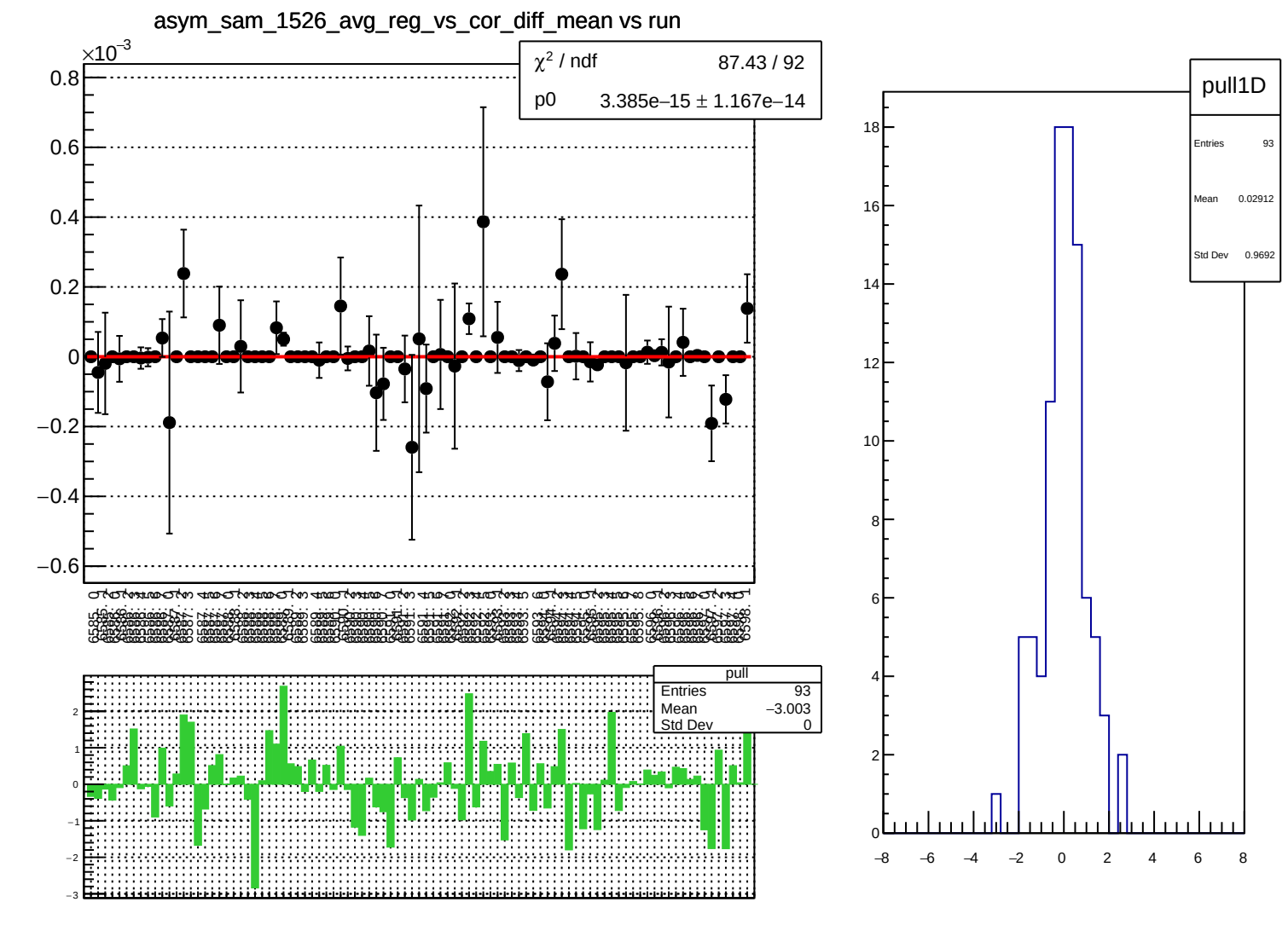

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 116.9 / 92
p0 58.37 ± 279
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −1623
Std Dev 0
2
1
0
−1
−2

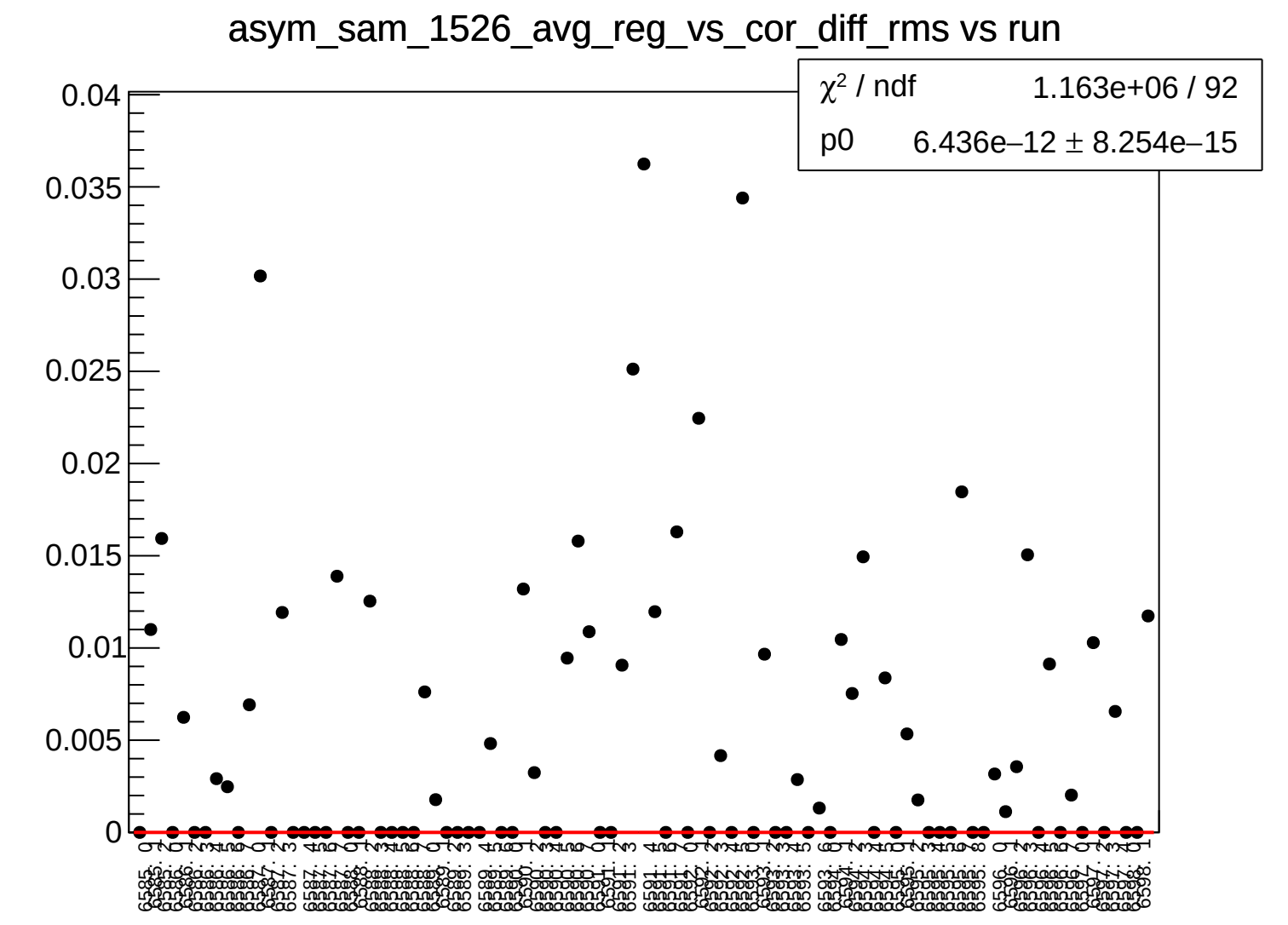

pull1D
Entries 93
Mean −0.0006531
Std Dev 1.121
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

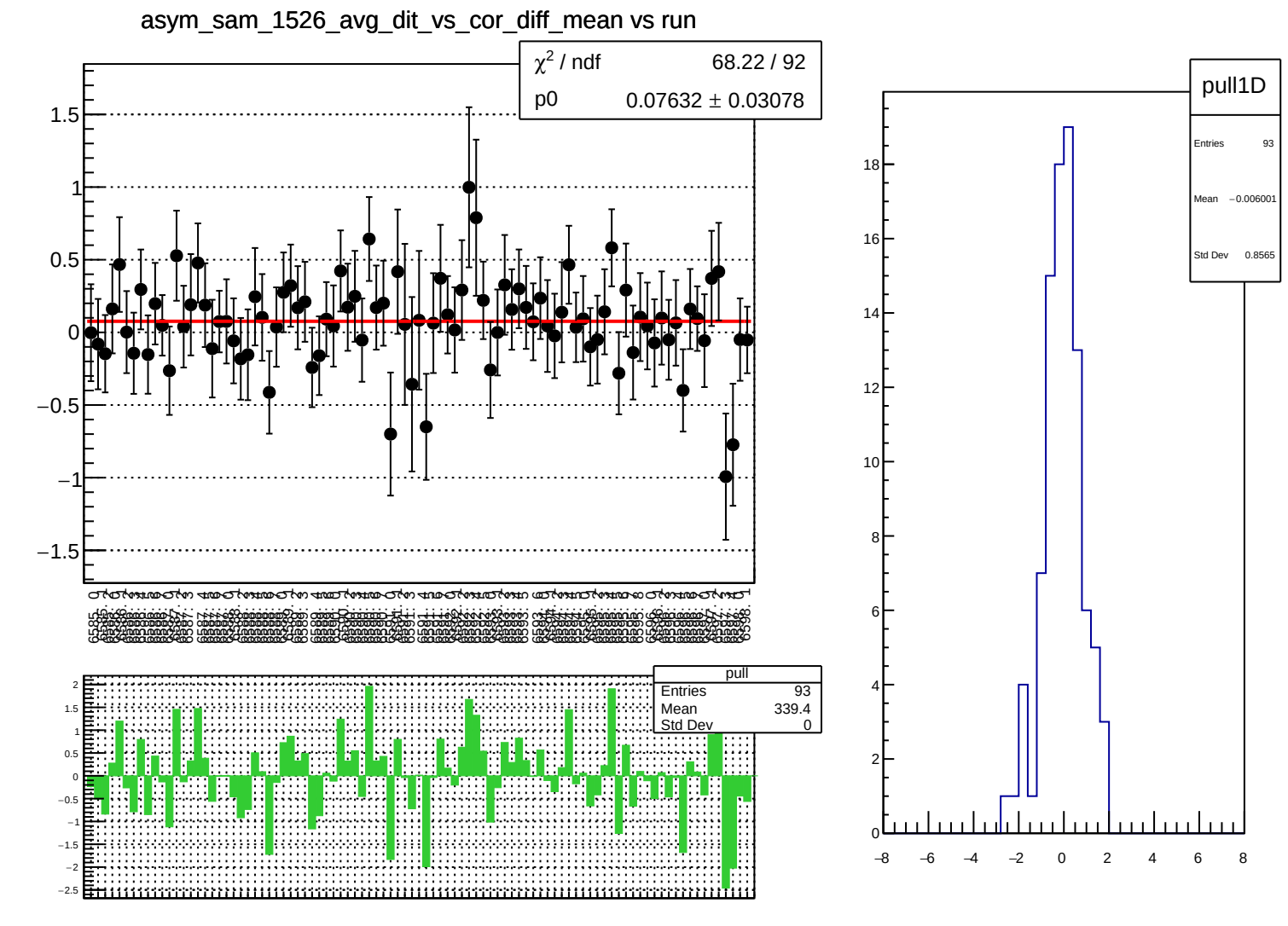

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.535e+04 / 92
p0 261.4 ± 0.1973
360
340
320
300
280
260
240
220

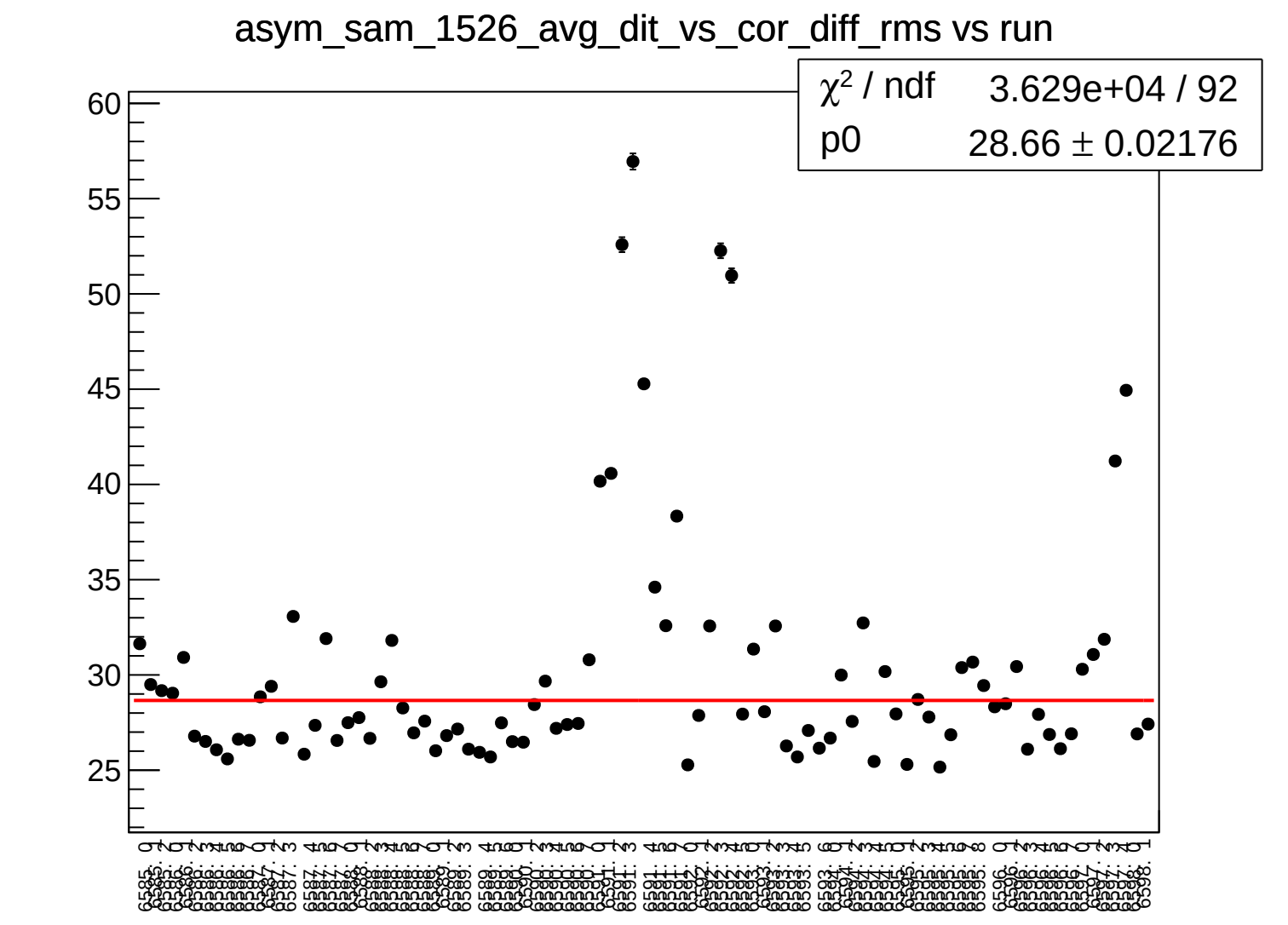

asym_sam_1526_avg_mean vs run
χ² / ndf 113.6 / 92
p0 −69.59 ± 286.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −136.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.003914
Std Dev 1.105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

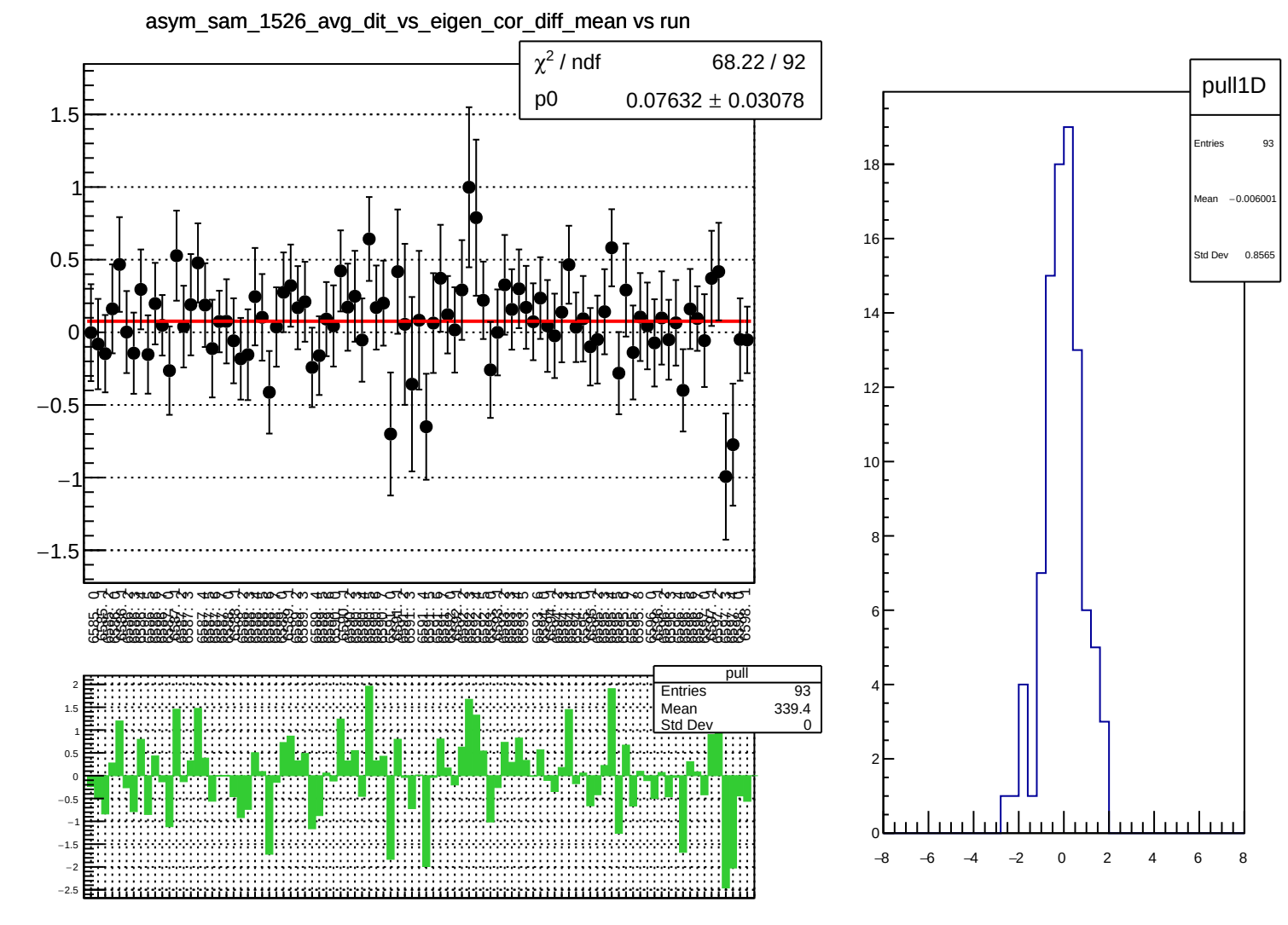

asym_sam_1526_avg_rms vs run
χ² / ndf 2.106e+04 / 92
p0 267.8 ± 0.2024
400
380
360
340
320
300
280
260
240
220

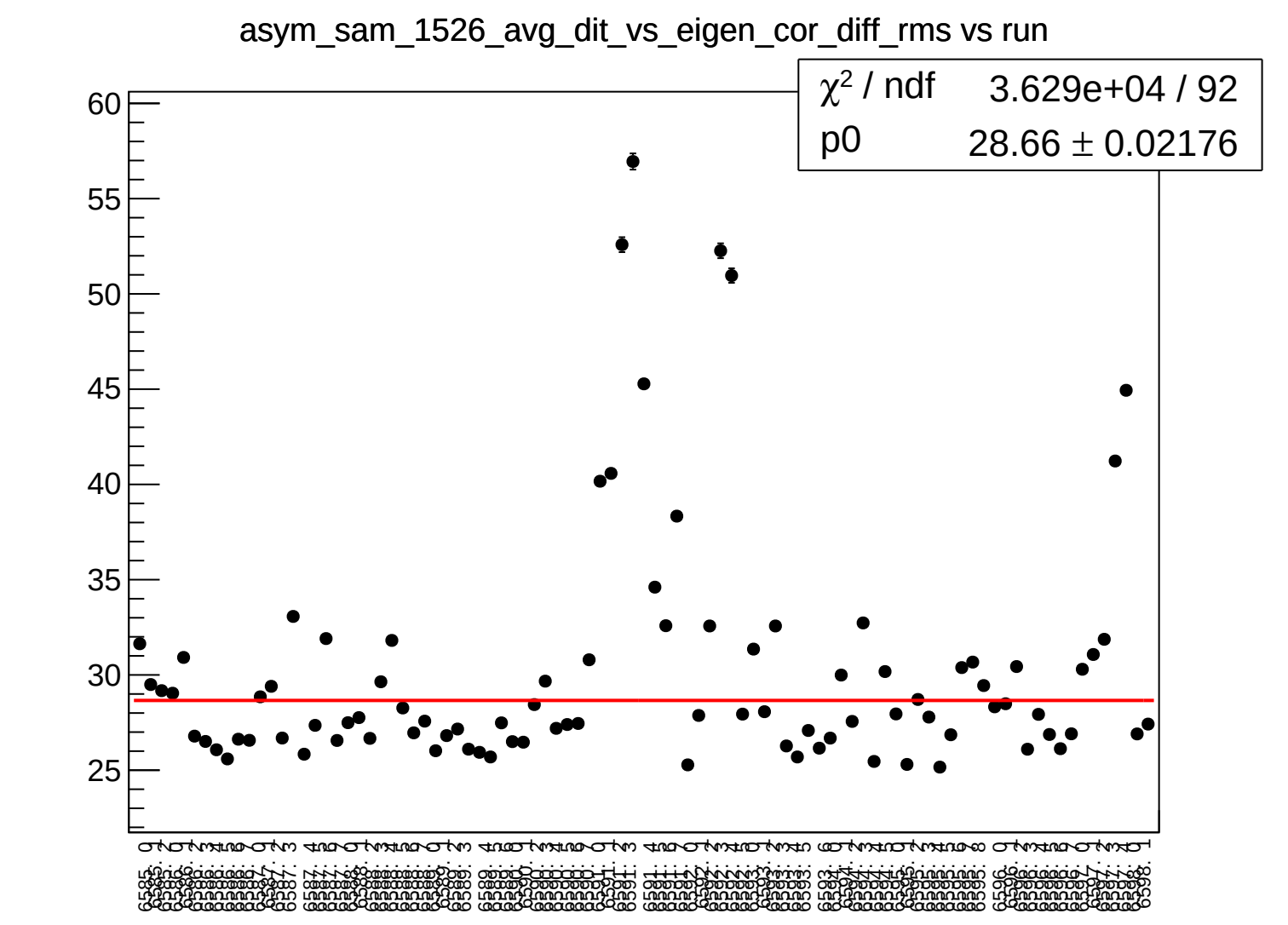

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 87.43 / 92
p0 3.385e−15 ± 1.167e−14
pull
Entries 93
Mean −3.003
Std Dev 0
pull1D
Entries 93
Mean 0.02912
Std Dev 0.9692

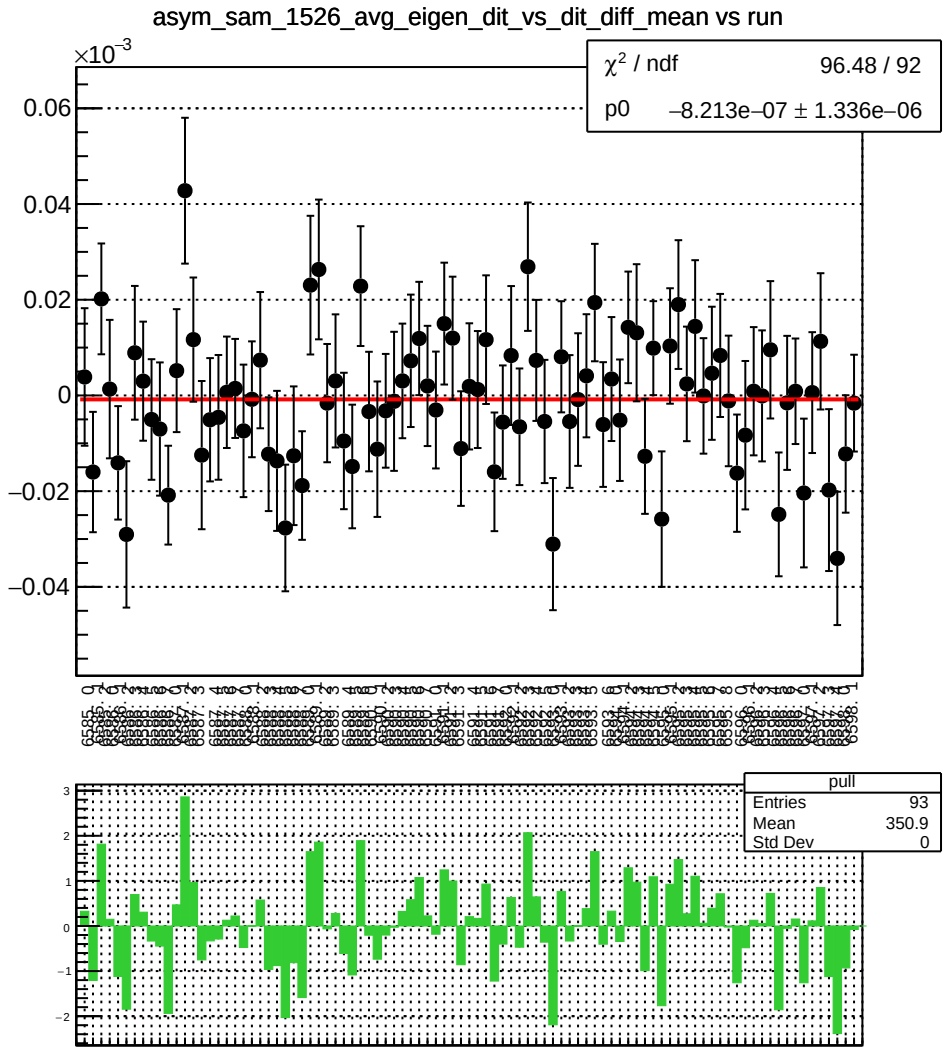

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 92
p0 6.436e−12 ± 8.254e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

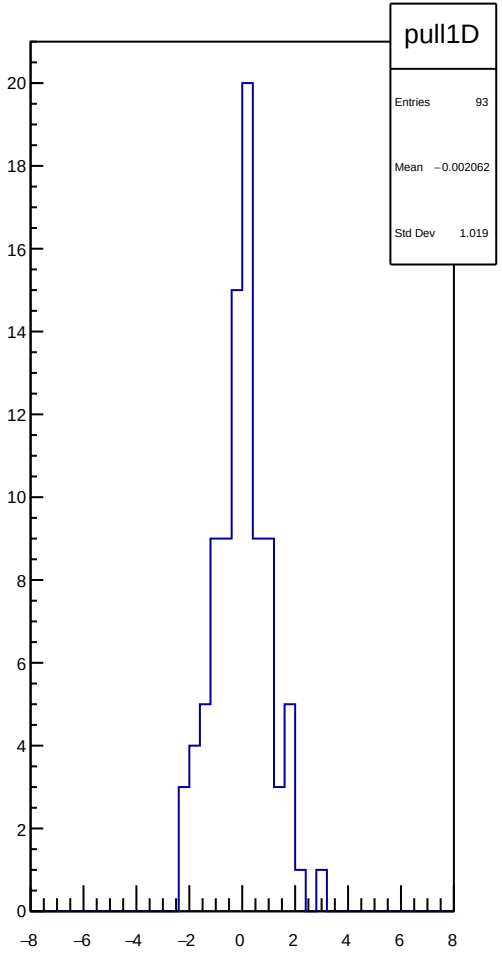

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.22 / 92
p0 0.07632 ± 0.03078
pull
Entries 93
Mean 339.4
Std Dev 0
pull1D
Entries 93
Mean −0.006001
Std Dev 0.8565

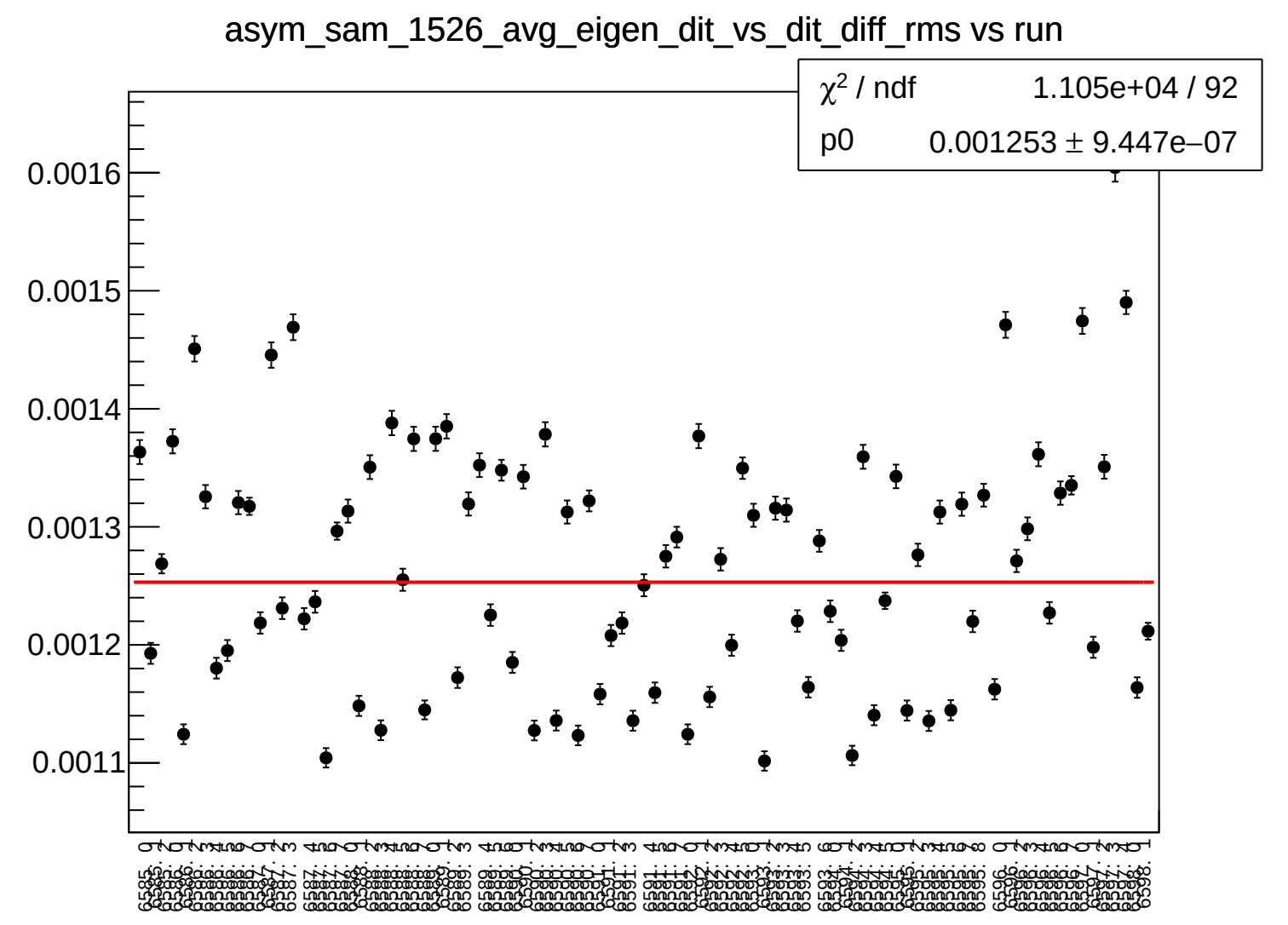

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.629e+04 / 92
p0 28.66 ± 0.02176
60
55
50
45
40
35
30
25

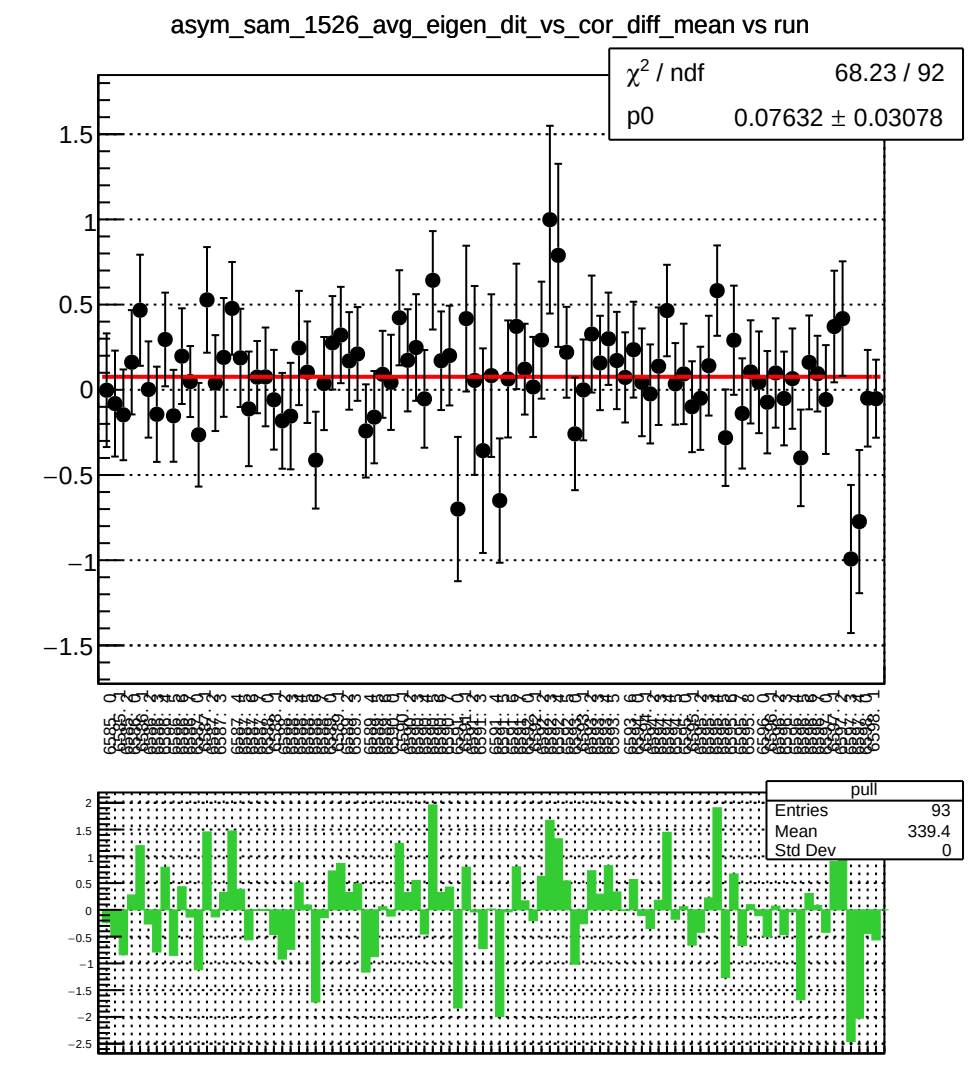

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.22 / 92
p0 0.07632 ± 0.03078
pull
Entries 93
Mean 339.4
Std Dev 0
pull1D
Entries 93
Mean −0.006001
Std Dev 0.8565

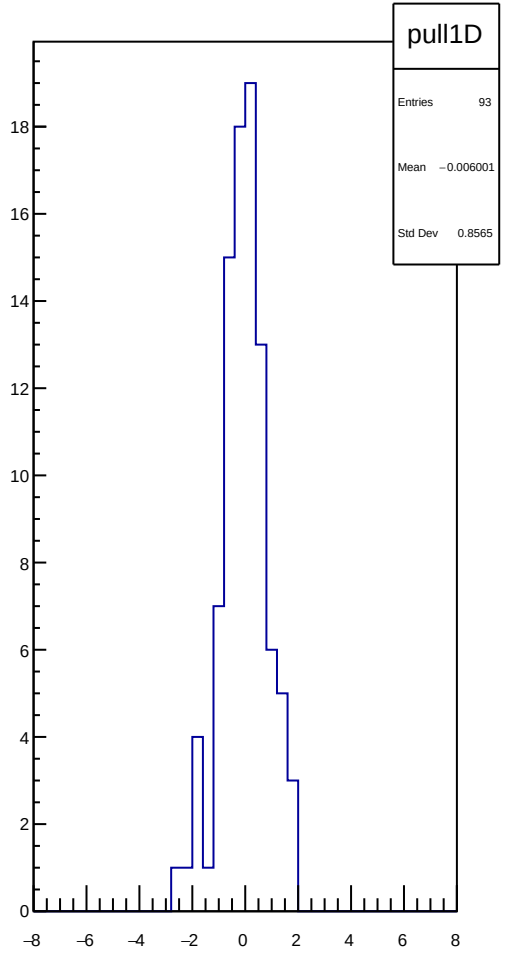

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.629e+04 / 92
p0 28.66 ± 0.02176
60
55
50
45
40
35
30
25

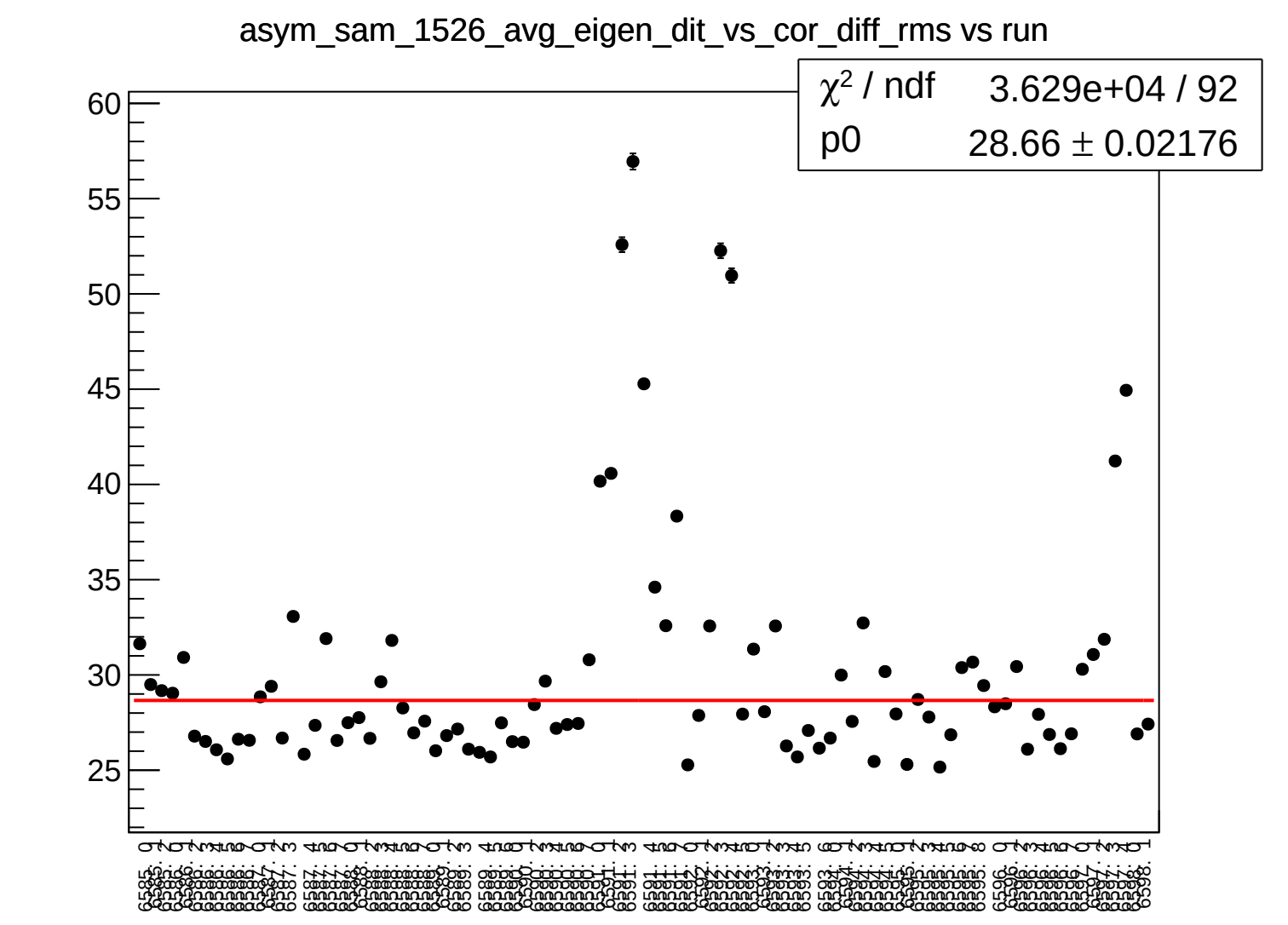

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.48 / 92
p0 −8.213e−07 ± 1.336e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean 350.9
Std Dev 0
3
2
1
0
−1
−2

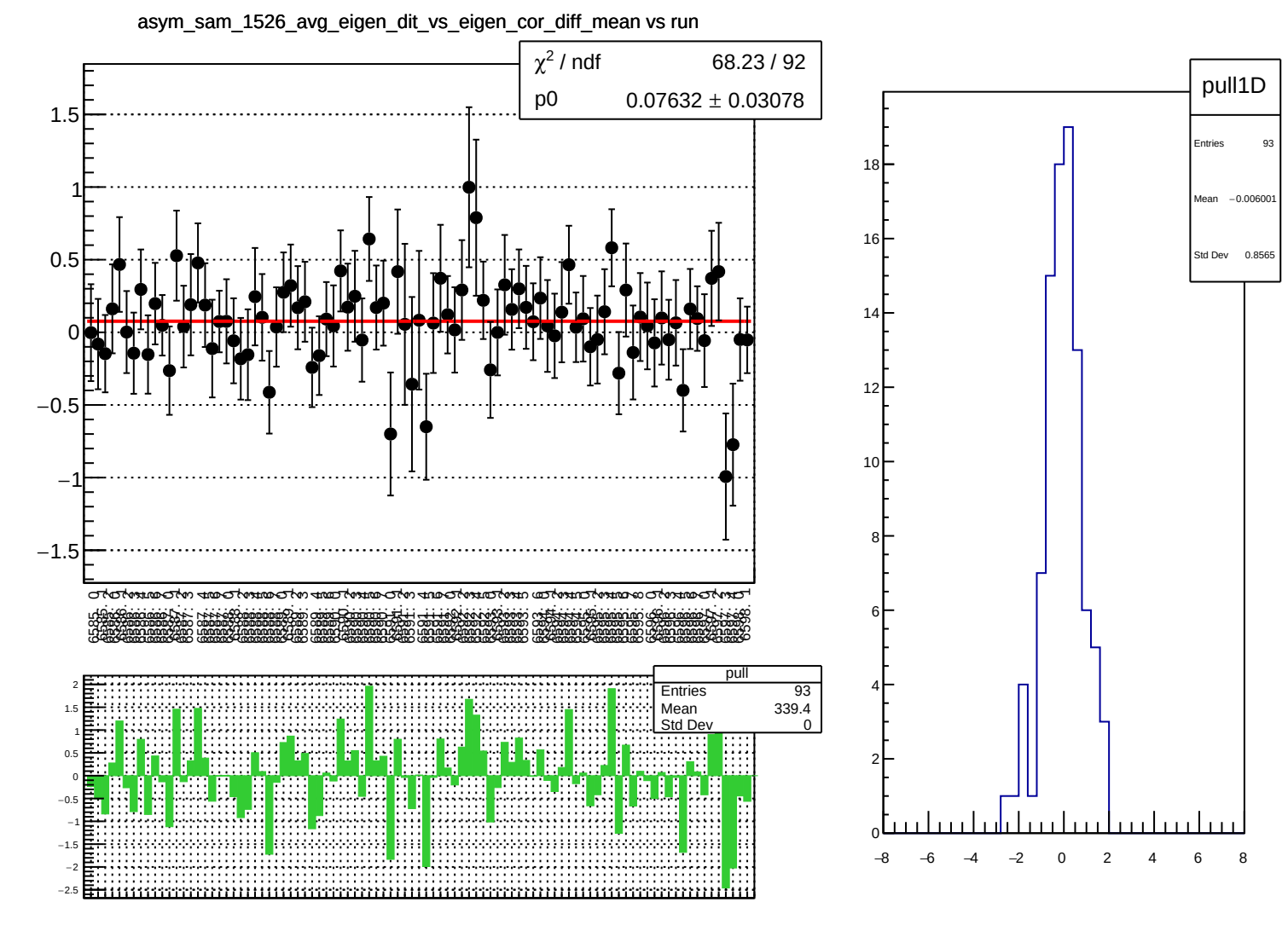

pull1D
Entries 93
Mean −0.002062
Std Dev 1.019
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

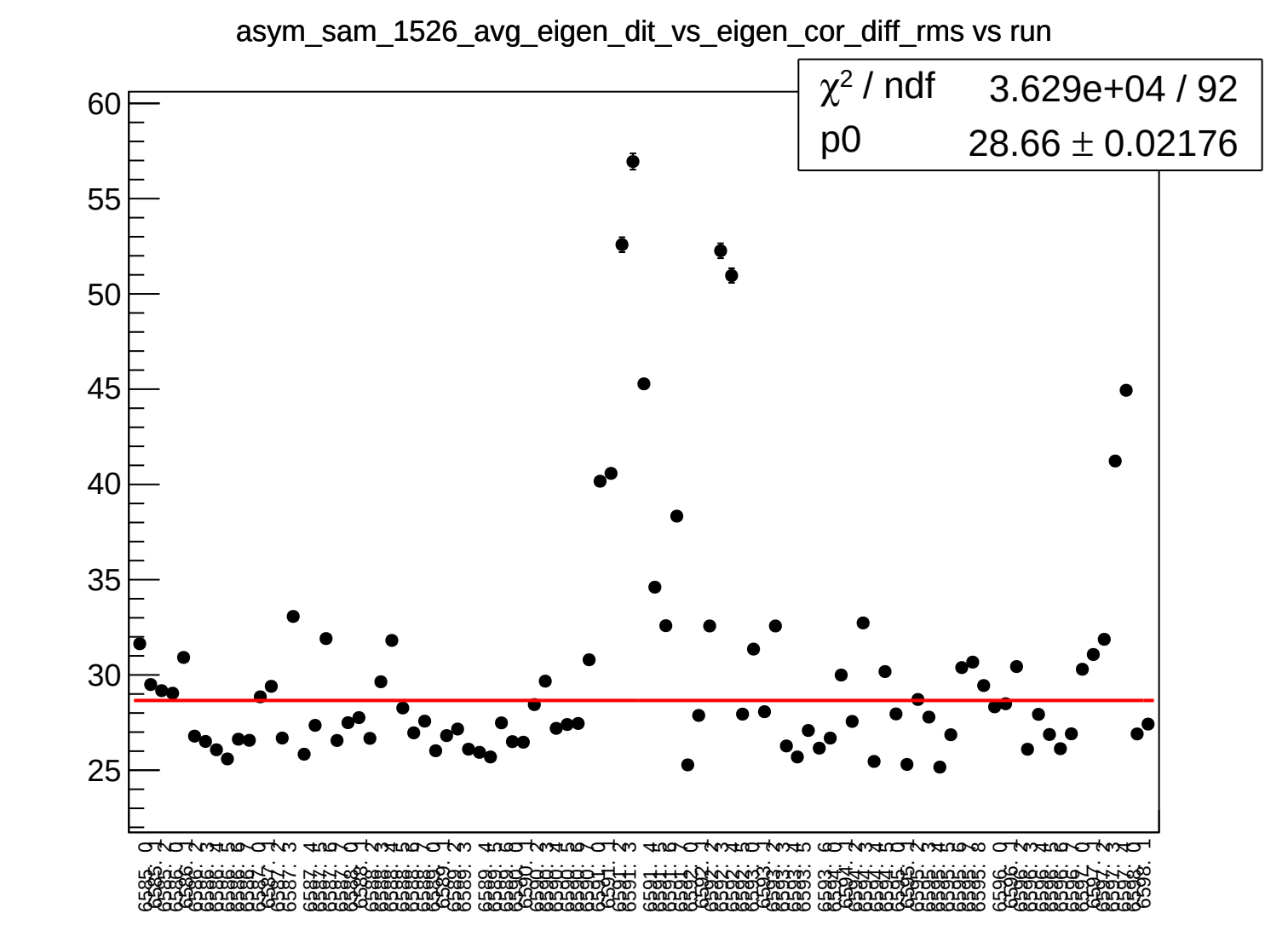

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.105e+04 / 92
p0 0.001253 ± 9.447e−07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

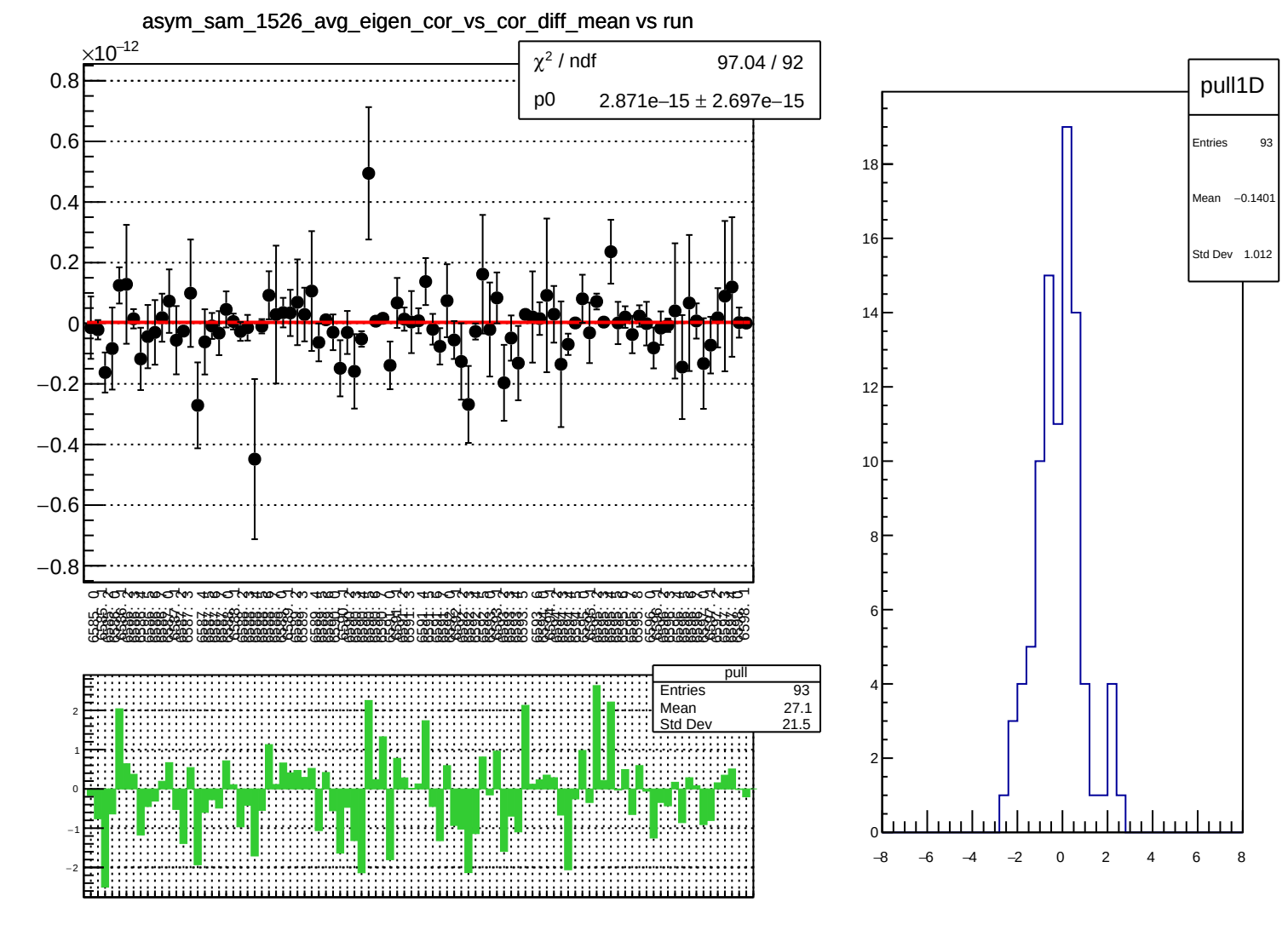

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.23 / 92
p0 0.07632 ± 0.03078
pull
Entries 93
Mean 339.4
Std Dev 0

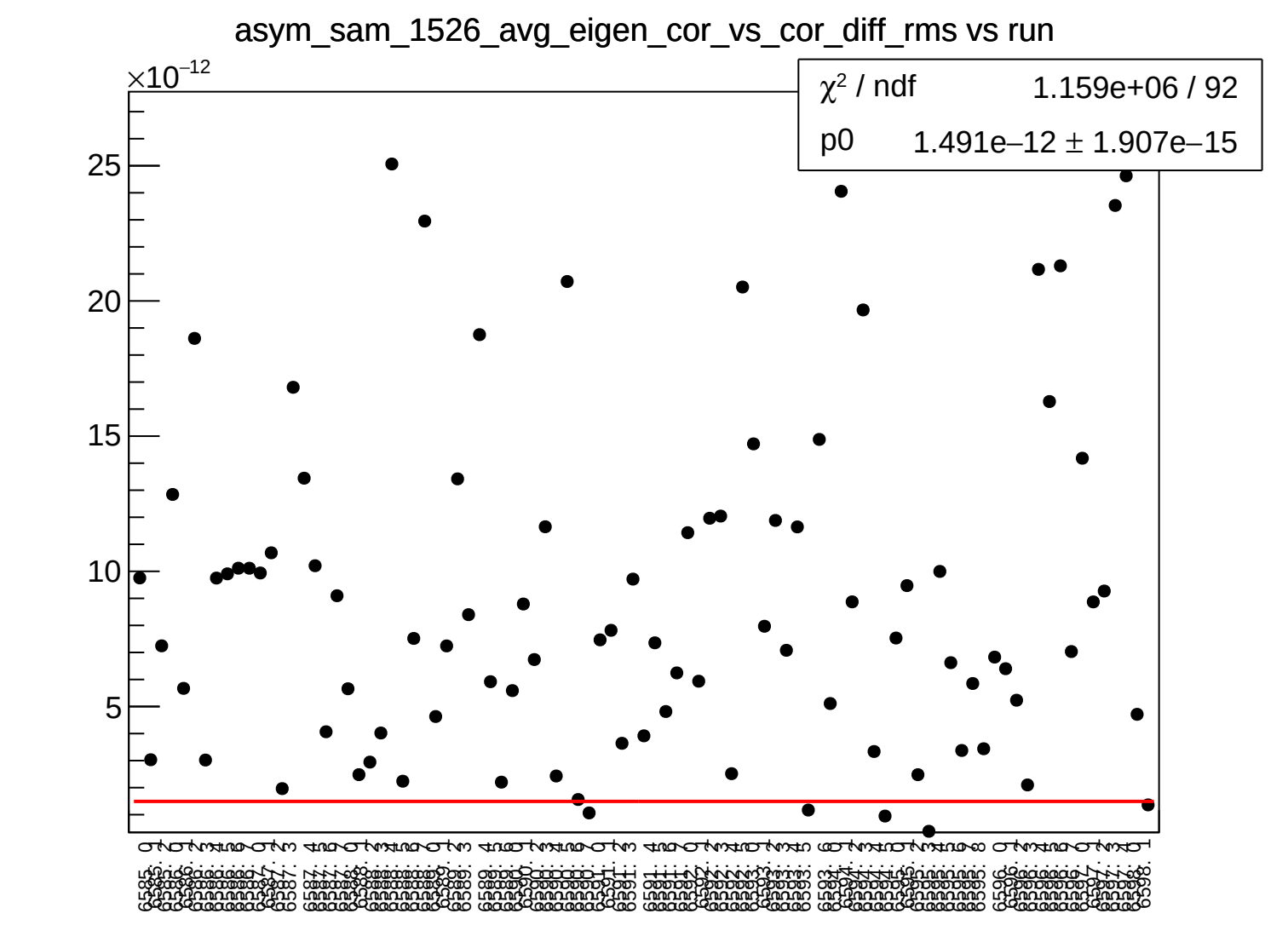

pull1D
Entries 93
Mean −0.006001
Std Dev 0.8565

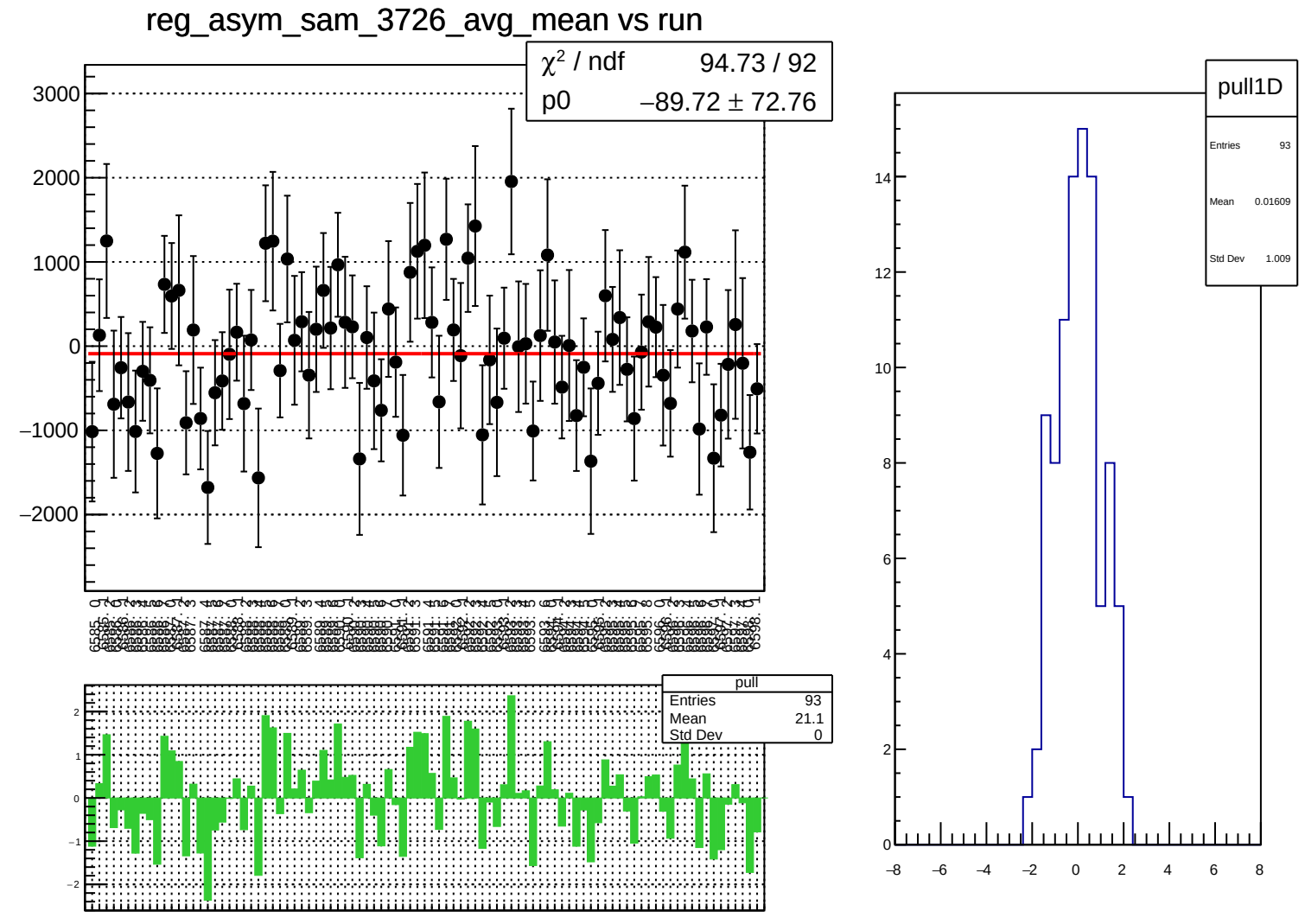

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.629e+04 / 92
p0 28.66 ± 0.02176
60
55
50
45
40
35
30
25

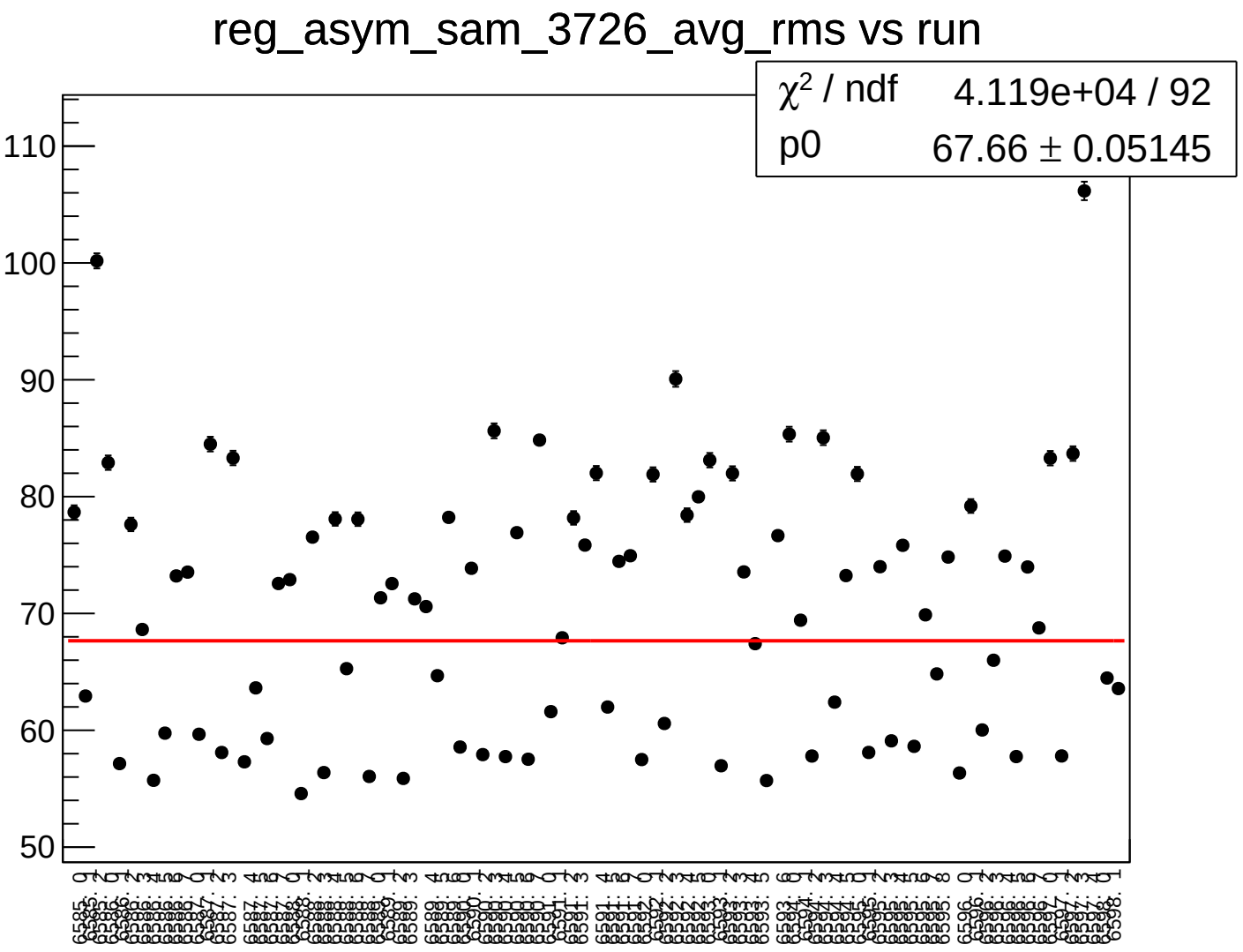

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.23 / 92
p0 0.07632 ± 0.03078
pull
Entries 93
Mean 339.4
Std Dev 0
pull1D
Entries 93
Mean −0.006001
Std Dev 0.8565

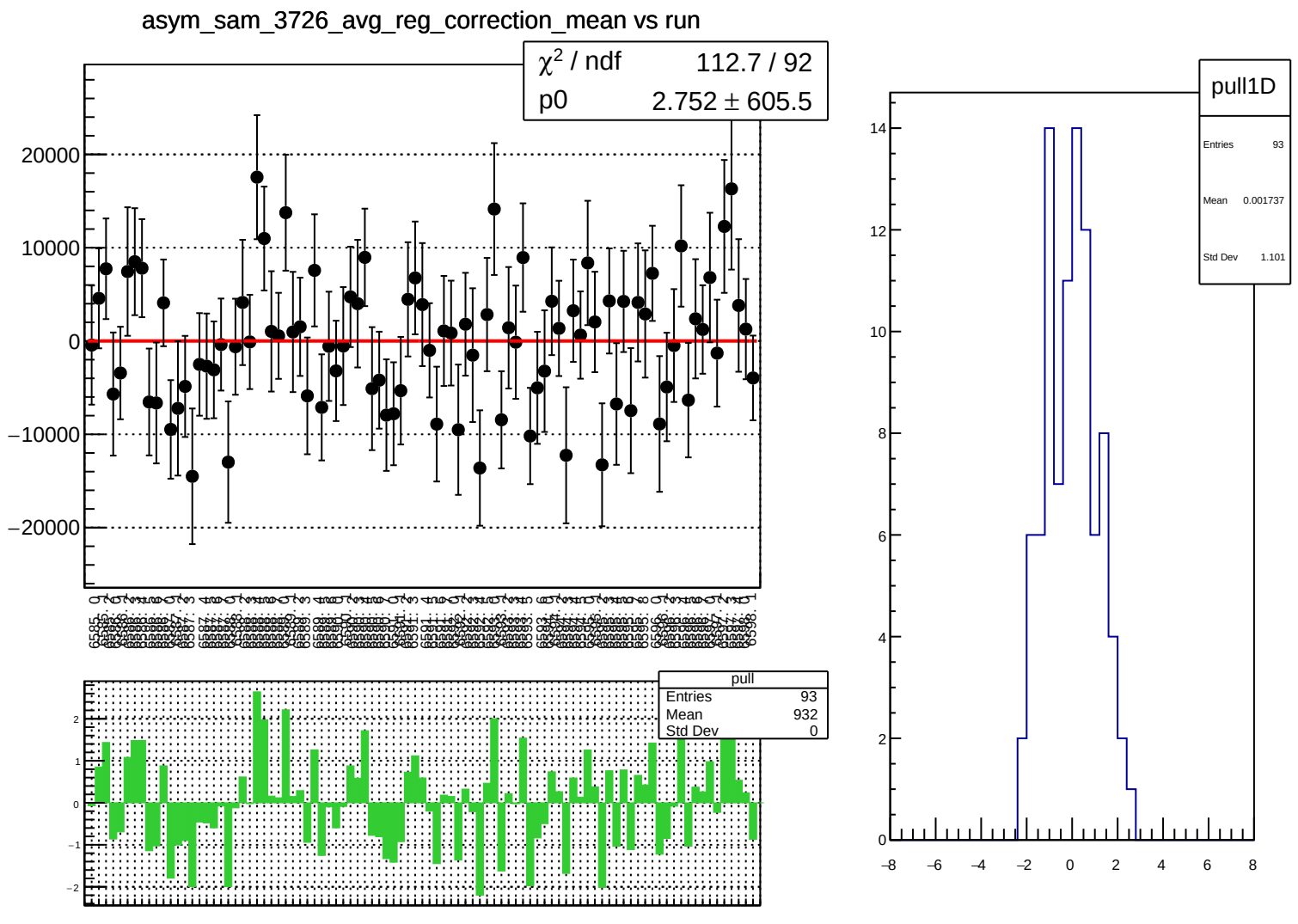

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.629e+04 / 92
p0 28.66 ± 0.02176
60
55
50
45
40
35
30
25

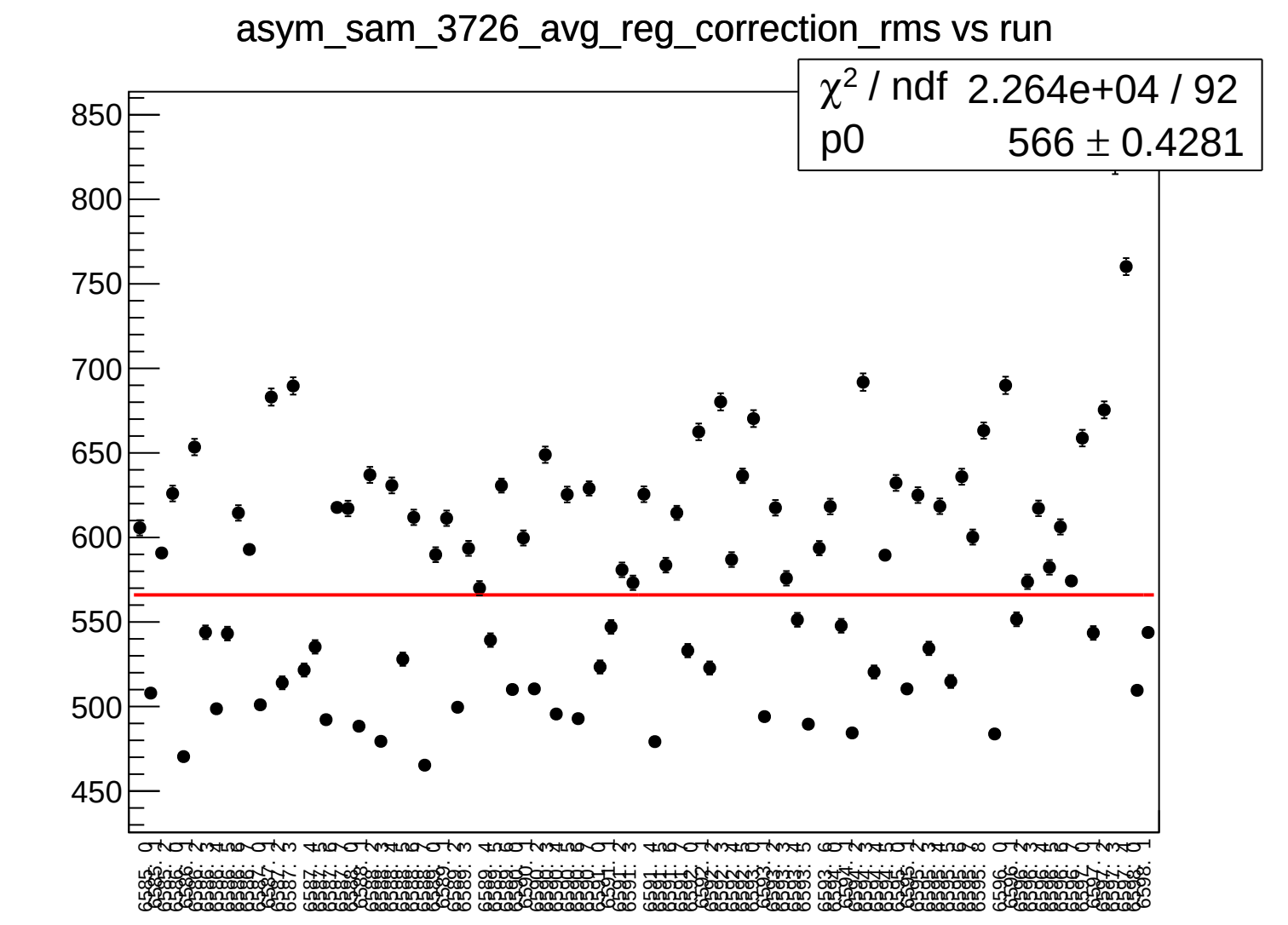

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.04 / 92
p0 2.871e−15 ± 2.697e−15
pull
Entries 93
Mean 27.1
Std Dev 21.5
pull1D
Entries 93
Mean −0.1401
Std Dev 1.012

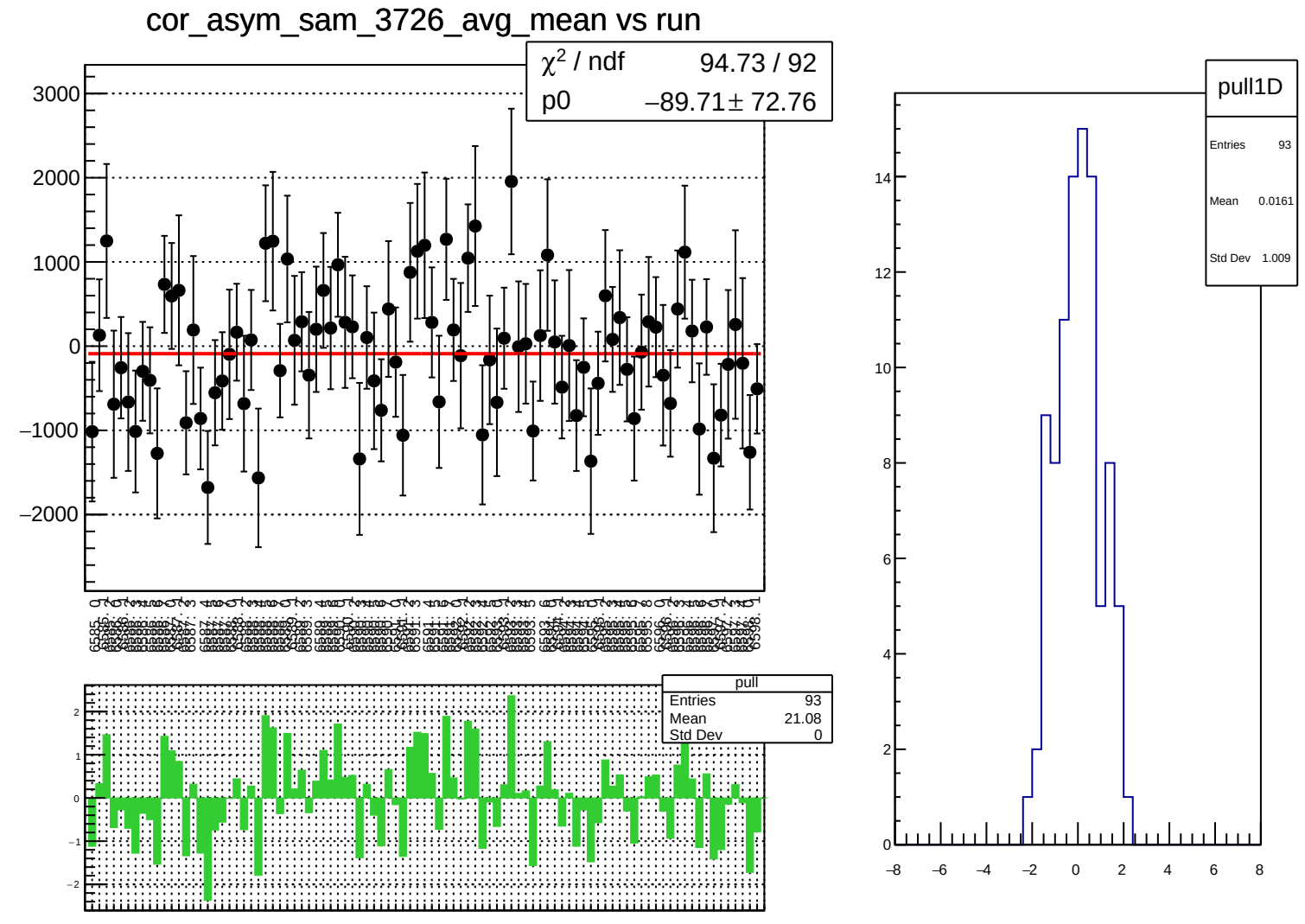

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.159e+06 / 92
p0 1.491e−12 ± 1.907e−15
25
20
15
10
5

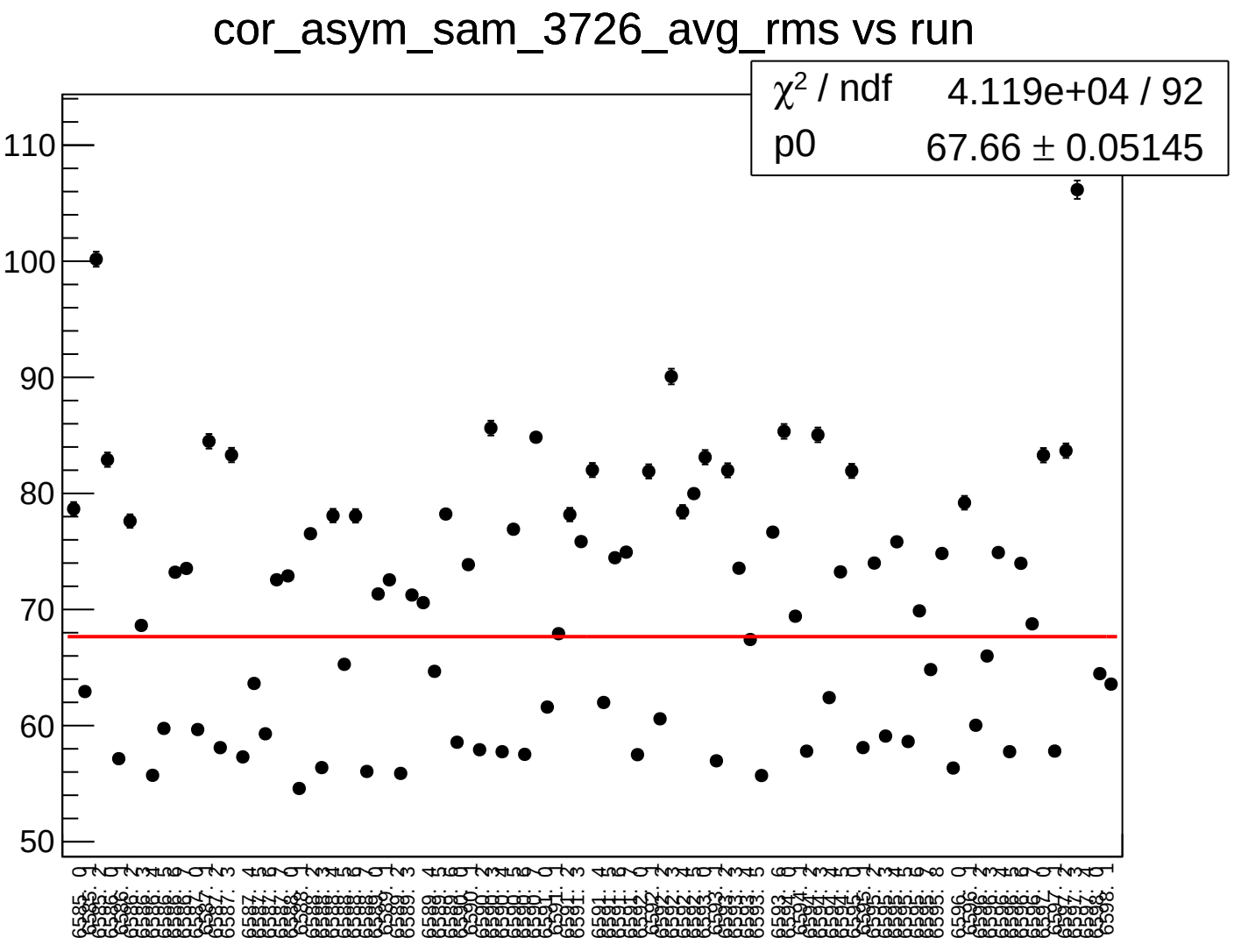

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 94.73 / 92
p0 −89.72 ± 72.76
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 21.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01609
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

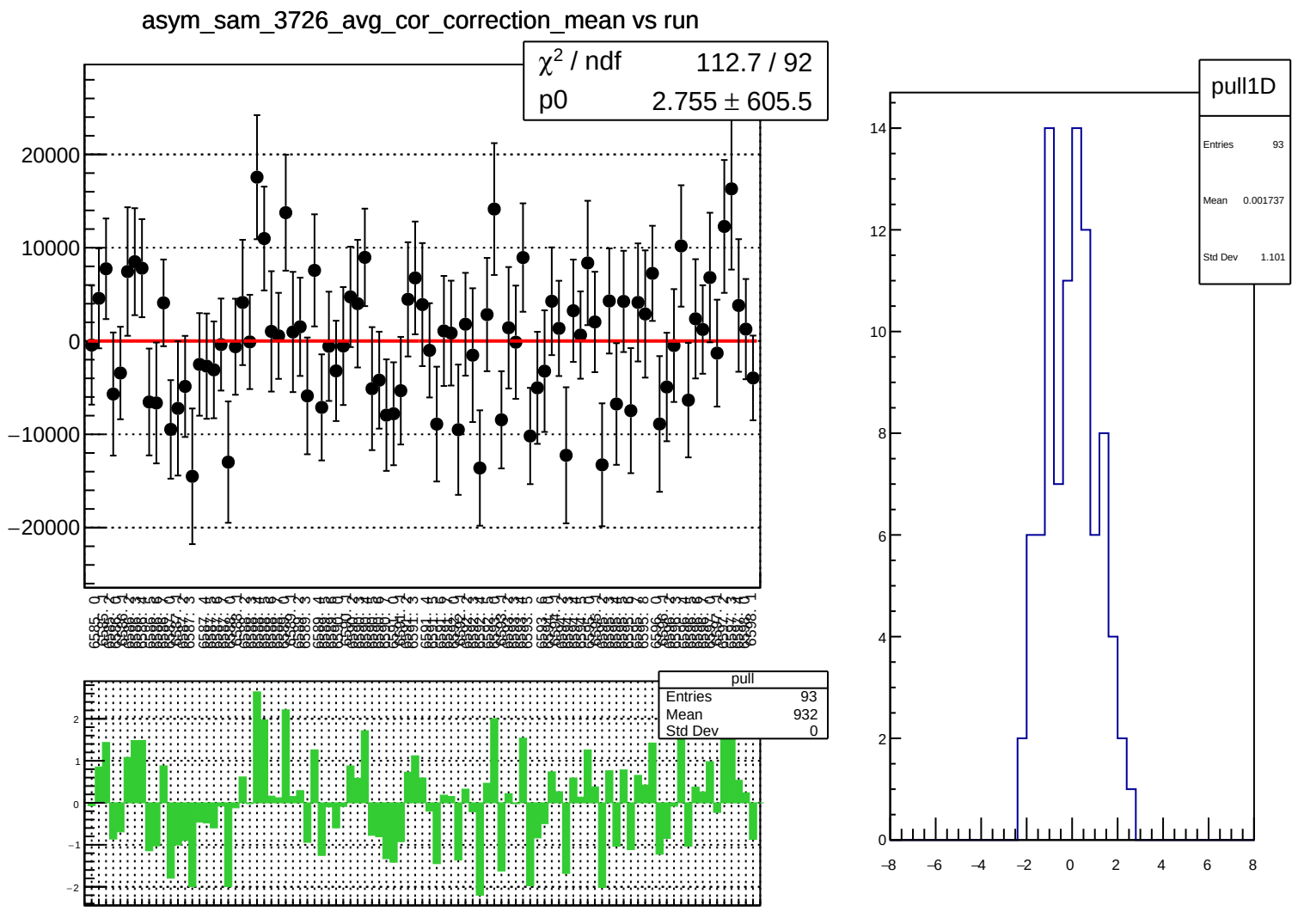

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.119e+04 / 92
p0 67.66 ± 0.05145
110
100
90
80
70
60
50

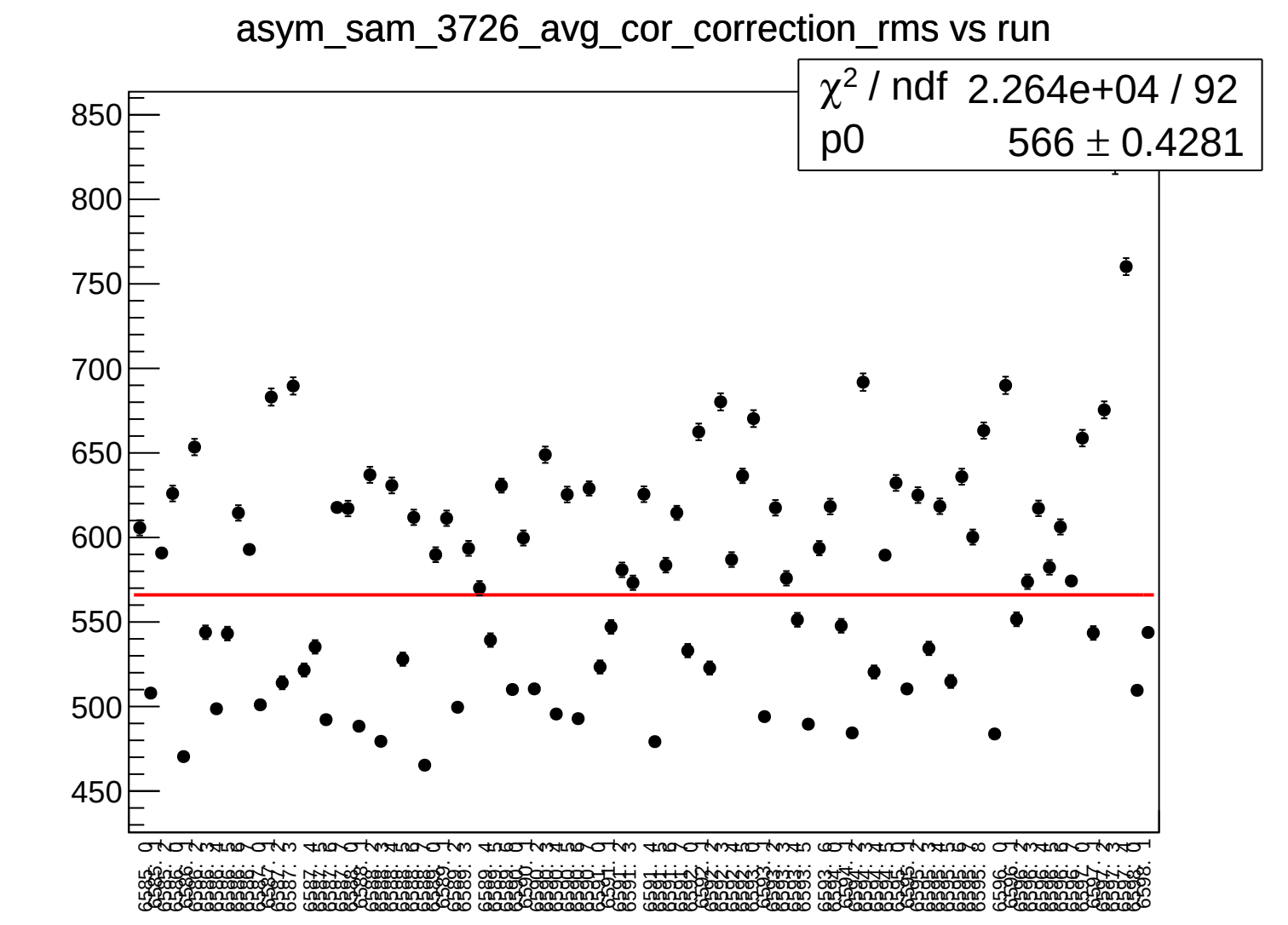

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 112.7 / 92
p0 2.752 ± 605.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 932
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001737
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

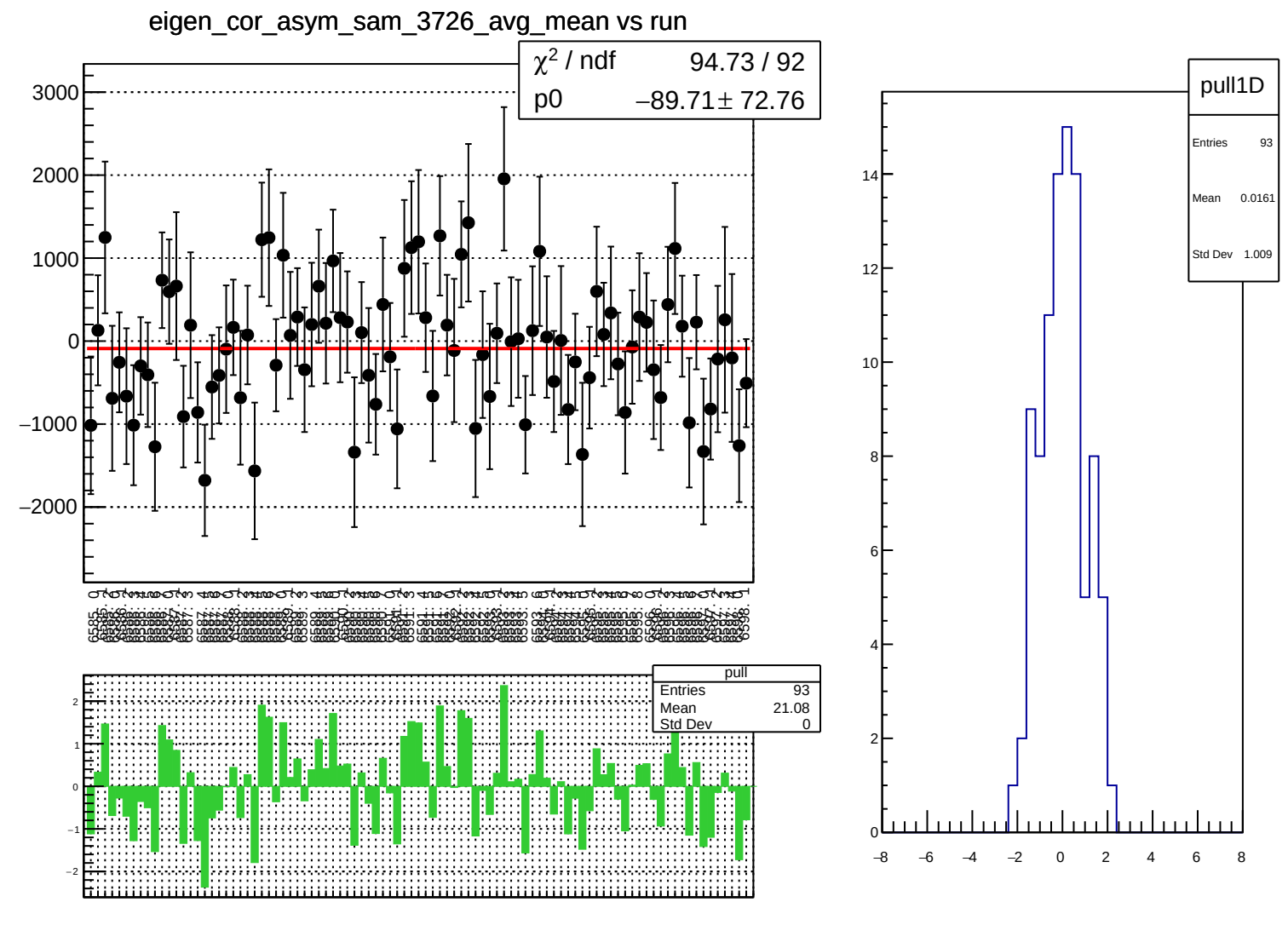

asym_sam_3726_avg_reg_correction_rms vs run
χ^2 / ndf 2.264e+04 / 92
p0 566 ± 0.4281
850
800
750
700
650
600
550
500
450

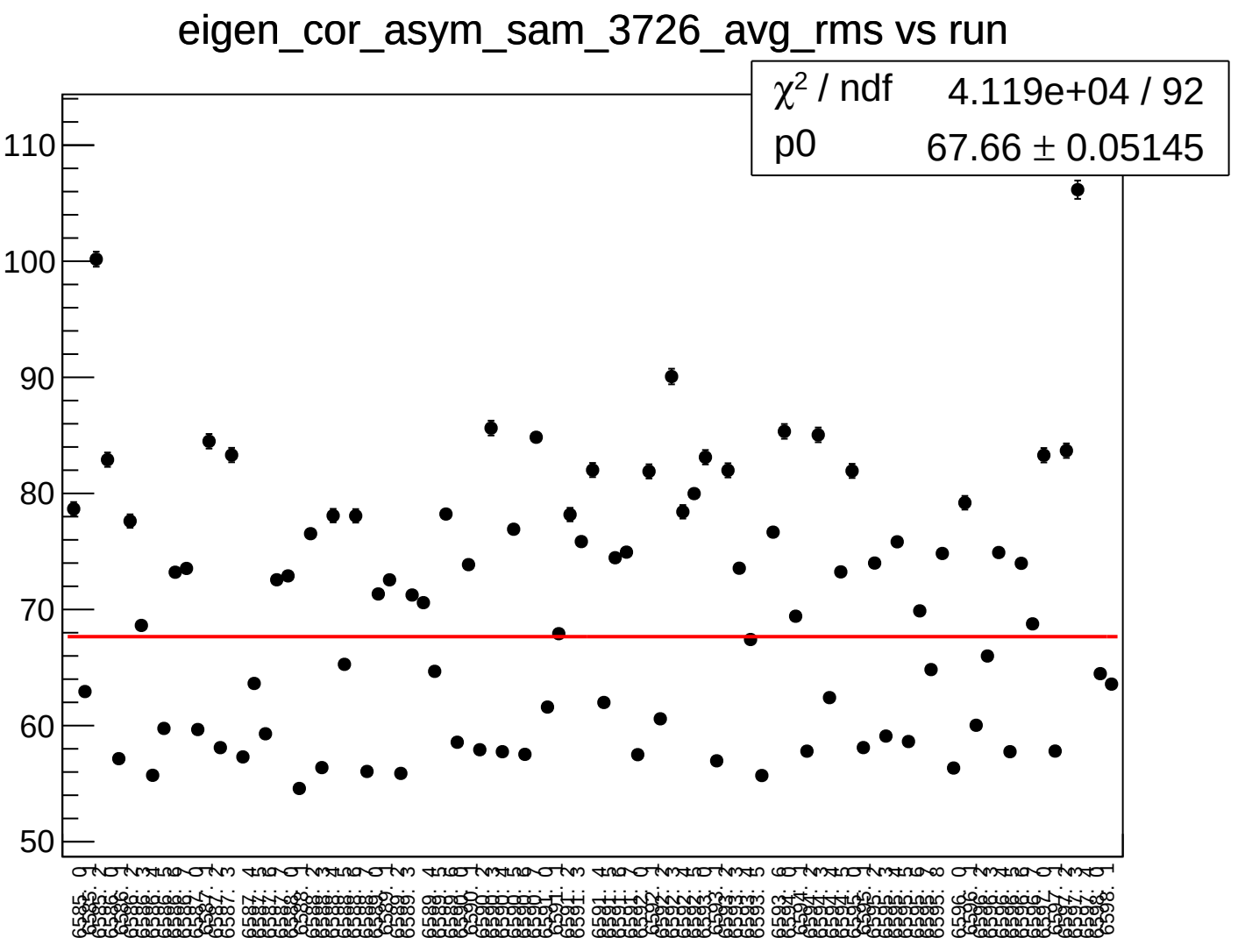

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 94.73 / 92
p0 −89.71 ± 72.76
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 21.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0161
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

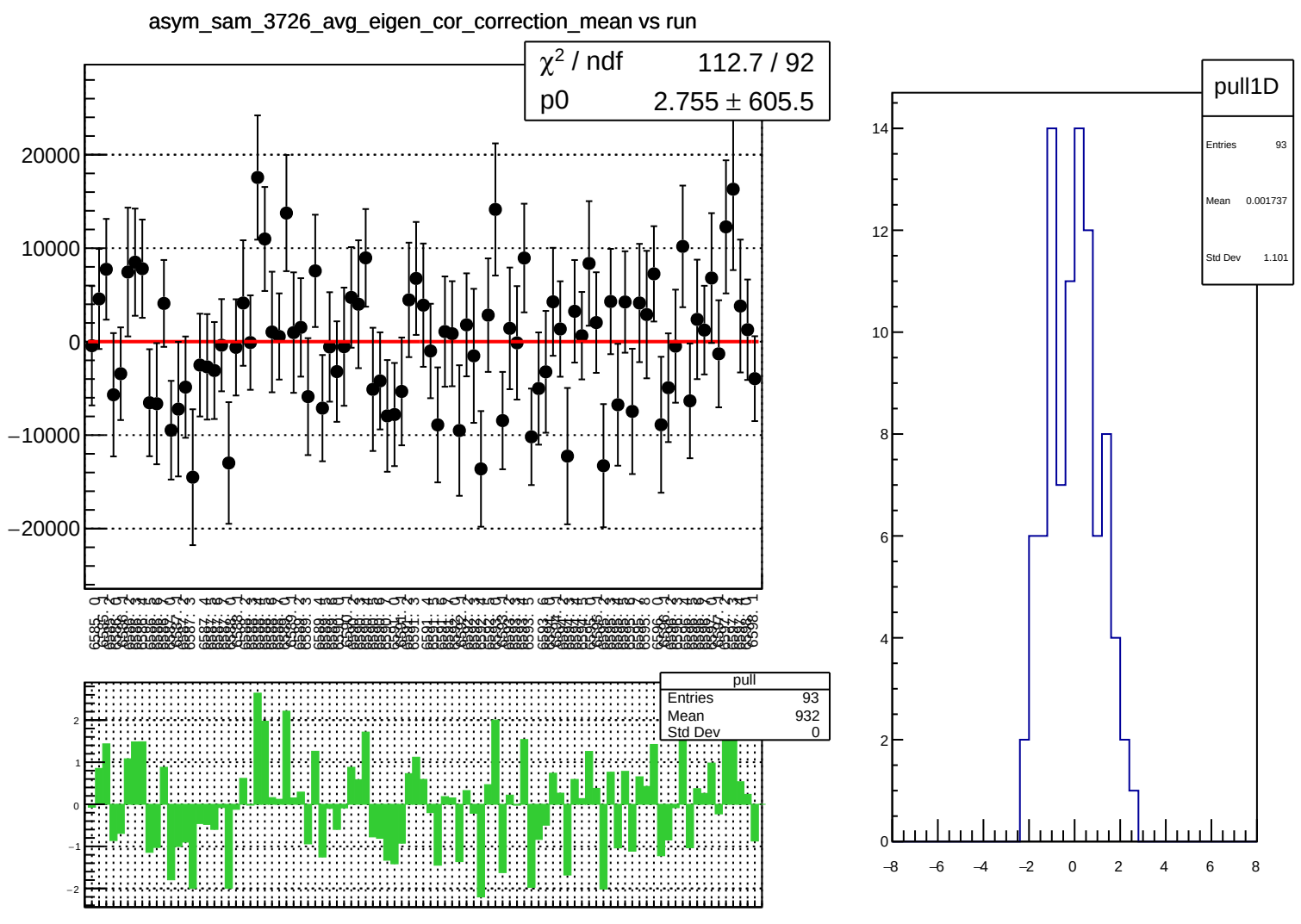

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.119e+04 / 92
p0 67.66 ± 0.05145
110
100
90
80
70
60
50

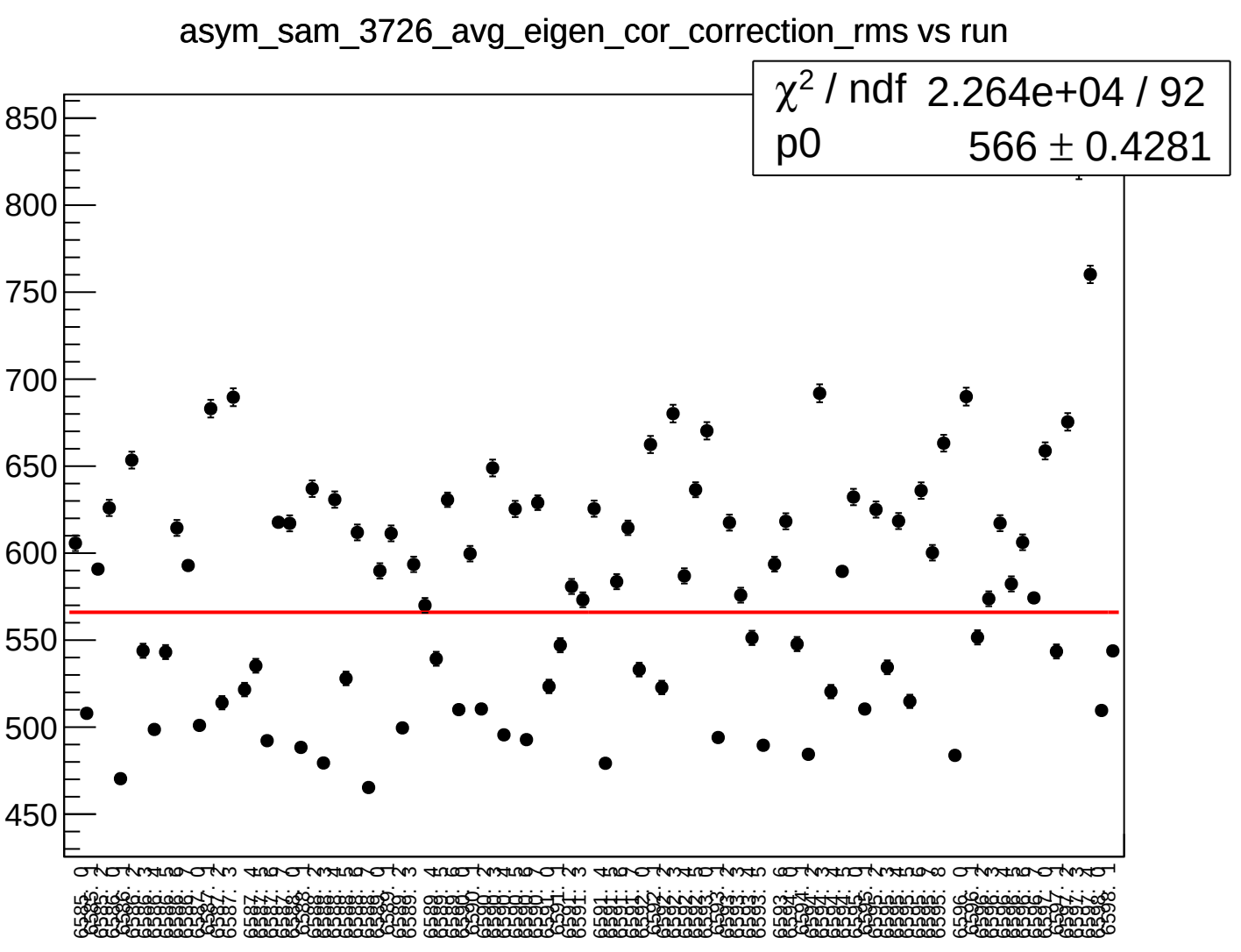

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 112.7 / 92
p0 2.755 ± 605.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 932
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001737
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

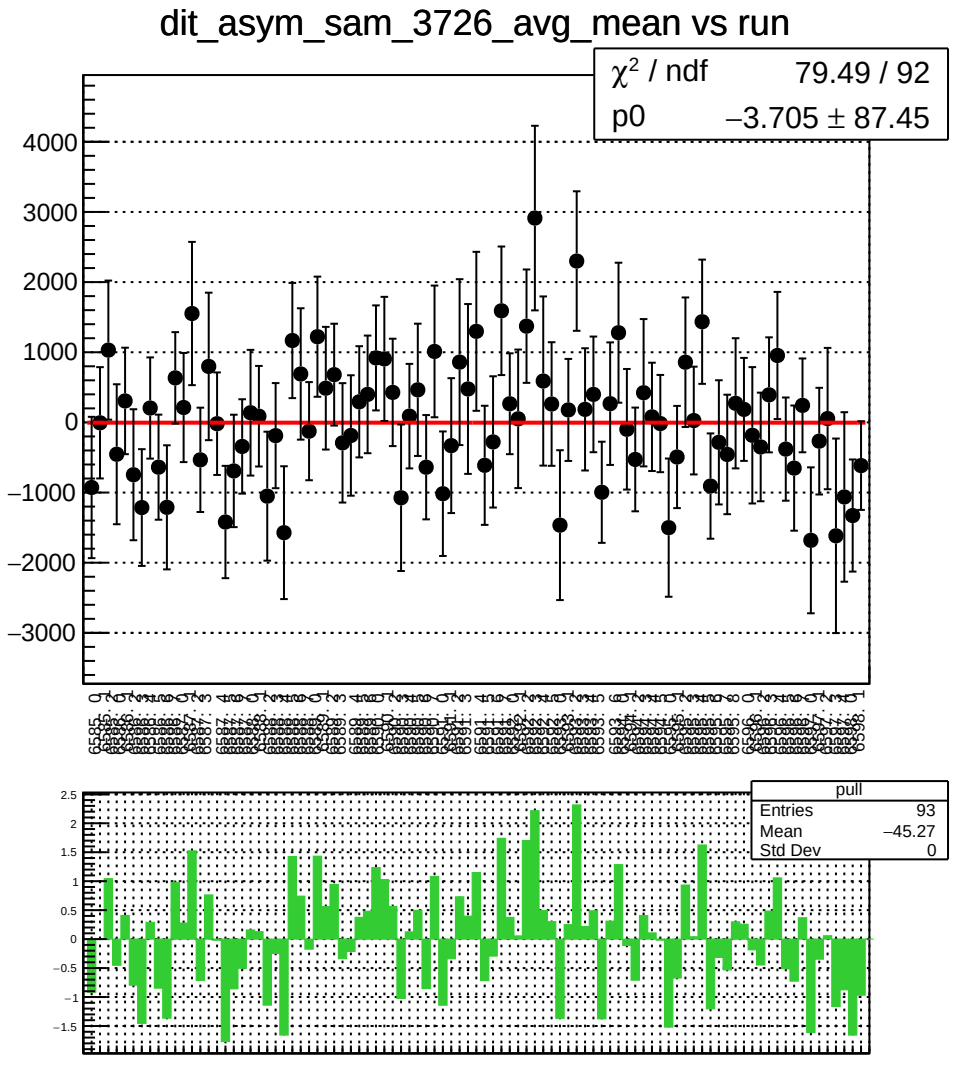

asym_sam_3726_avg_cor_correction_rms vs run
χ^2 / ndf 2.264e+04 / 92
p0 566 ± 0.4281
850
800
750
700
650
600
550
500
450

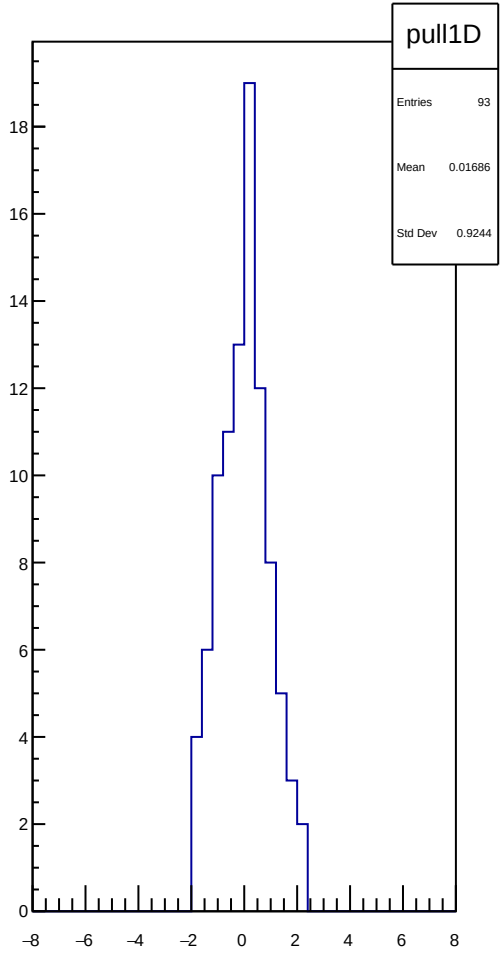

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 94.73 / 92
p0 −89.71 ± 72.76
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 21.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0161
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

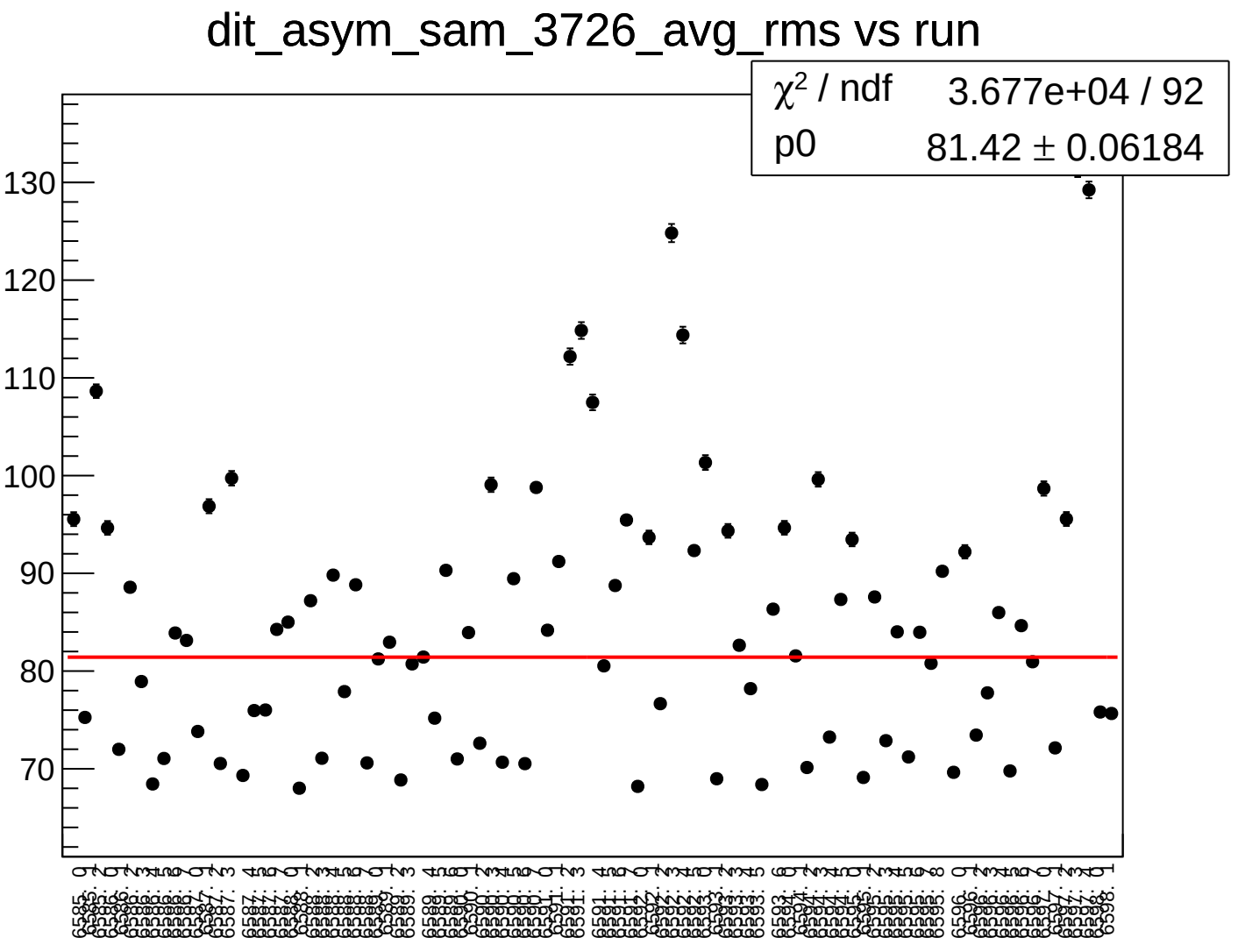

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.119e+04 / 92
p0 67.66 ± 0.05145
110
100
90
80
70
60
50

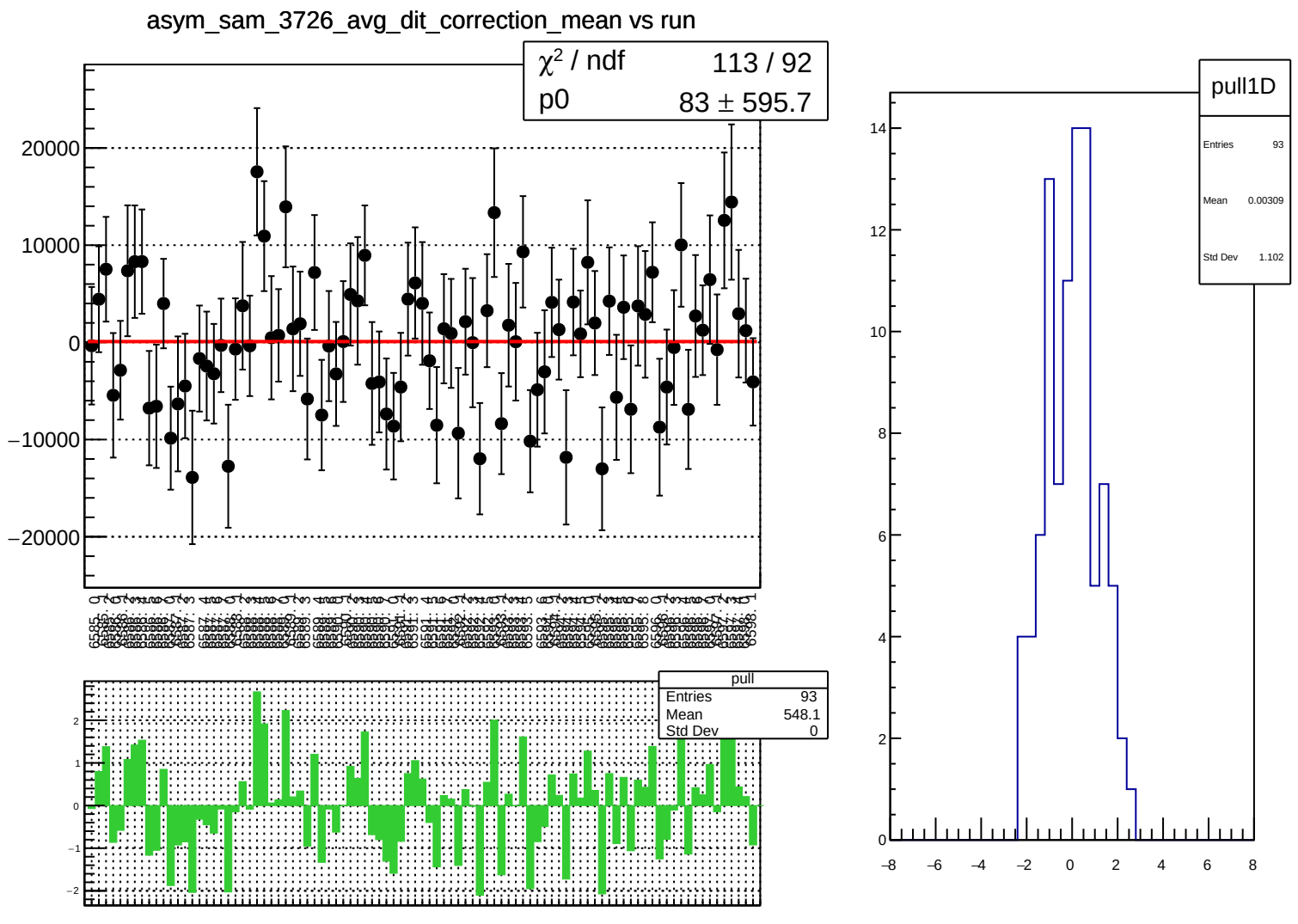

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 112.7 / 92
p0 2.755 ± 605.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 932
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001737
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

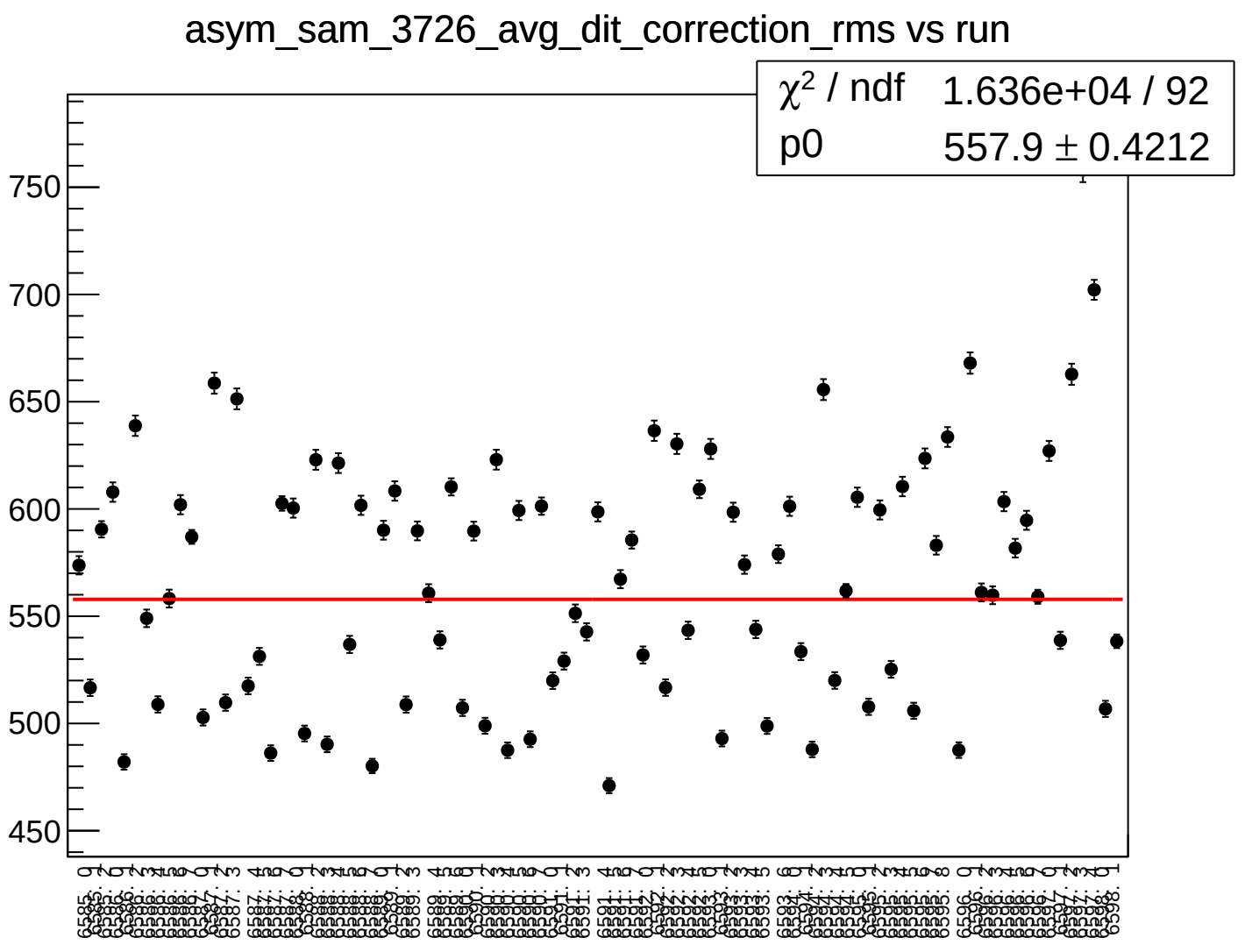

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 2.264e+04 / 92
p0 566 ± 0.4281
850
800
750
700
650
600
550
500
450

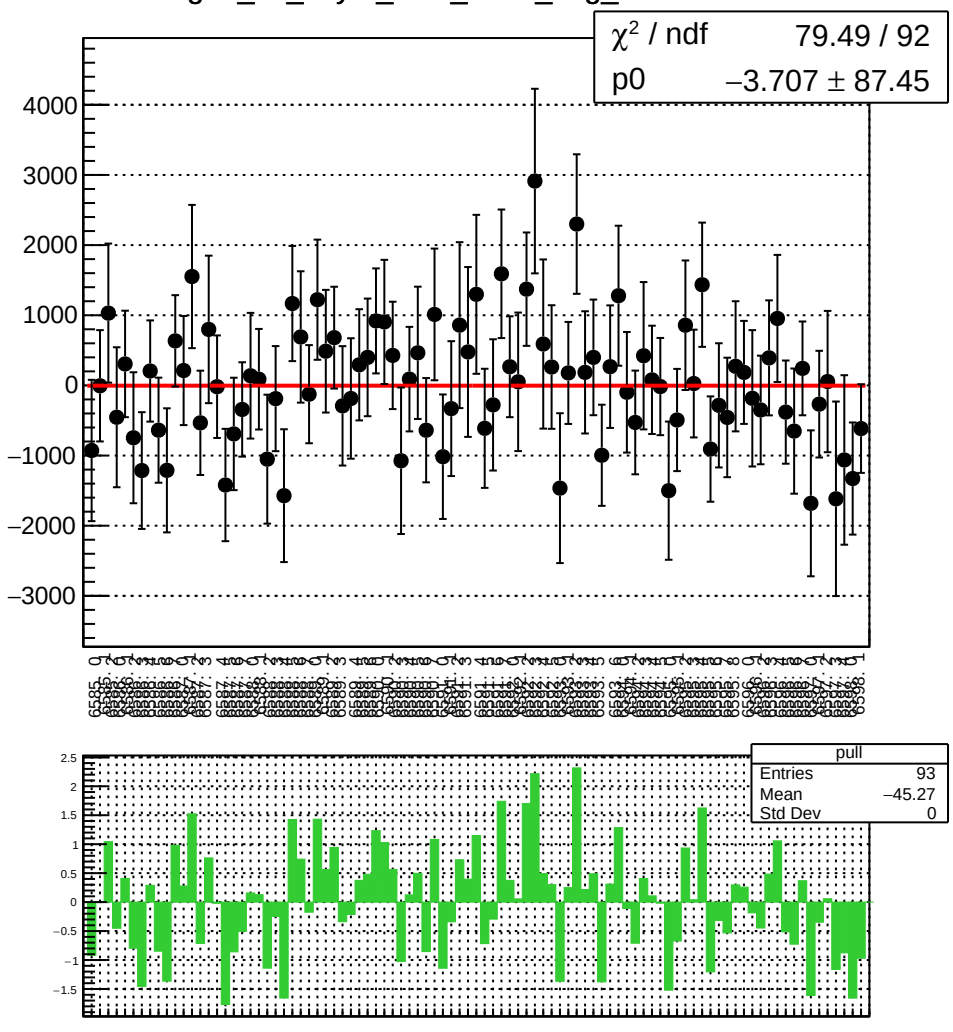

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 79.49 / 92
p0 −3.705 ± 87.45
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −45.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

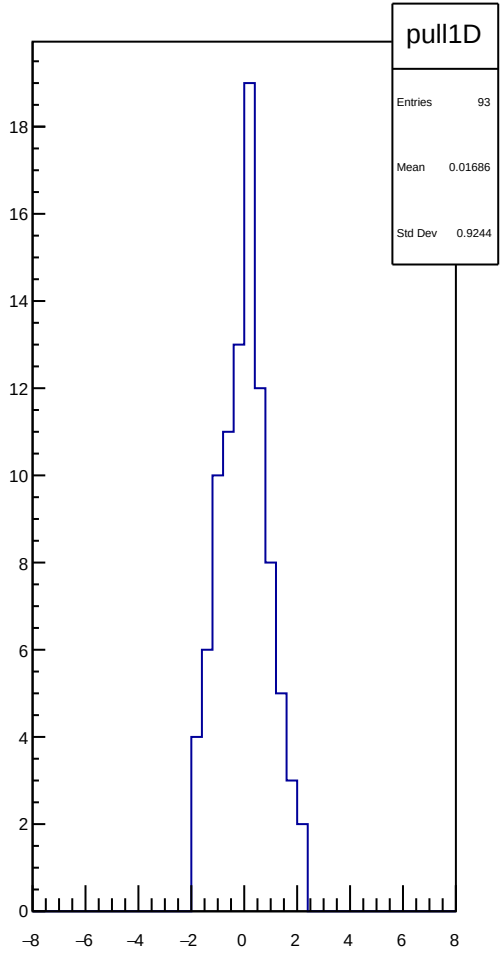

pull1D
Entries 93
Mean 0.01686
Std Dev 0.9244
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

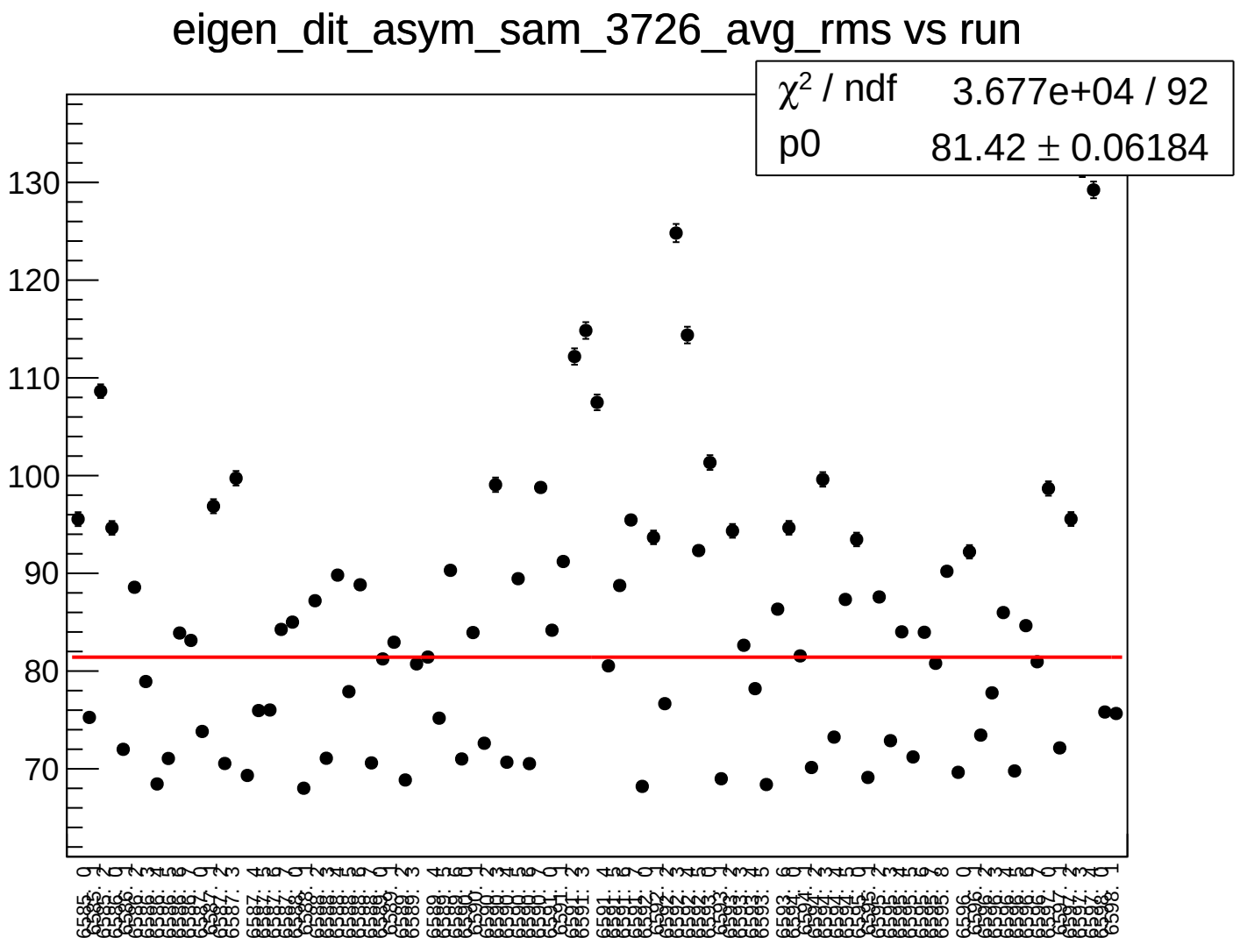

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.677e+04 / 92
p0 81.42 ± 0.06184
130
120
110
100
90
80
70

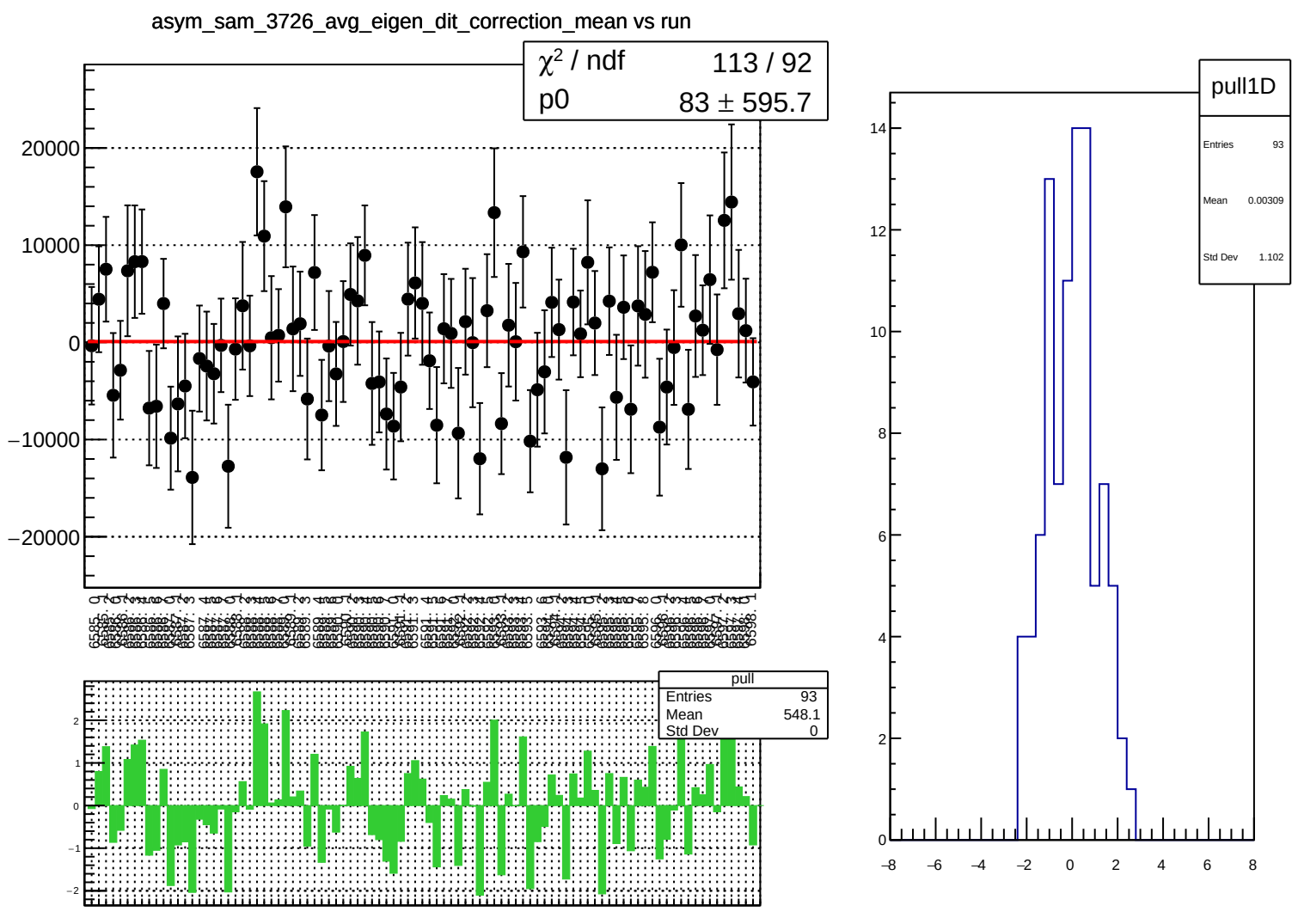

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 113 / 92
p0 83 ± 595.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 548.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00309
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

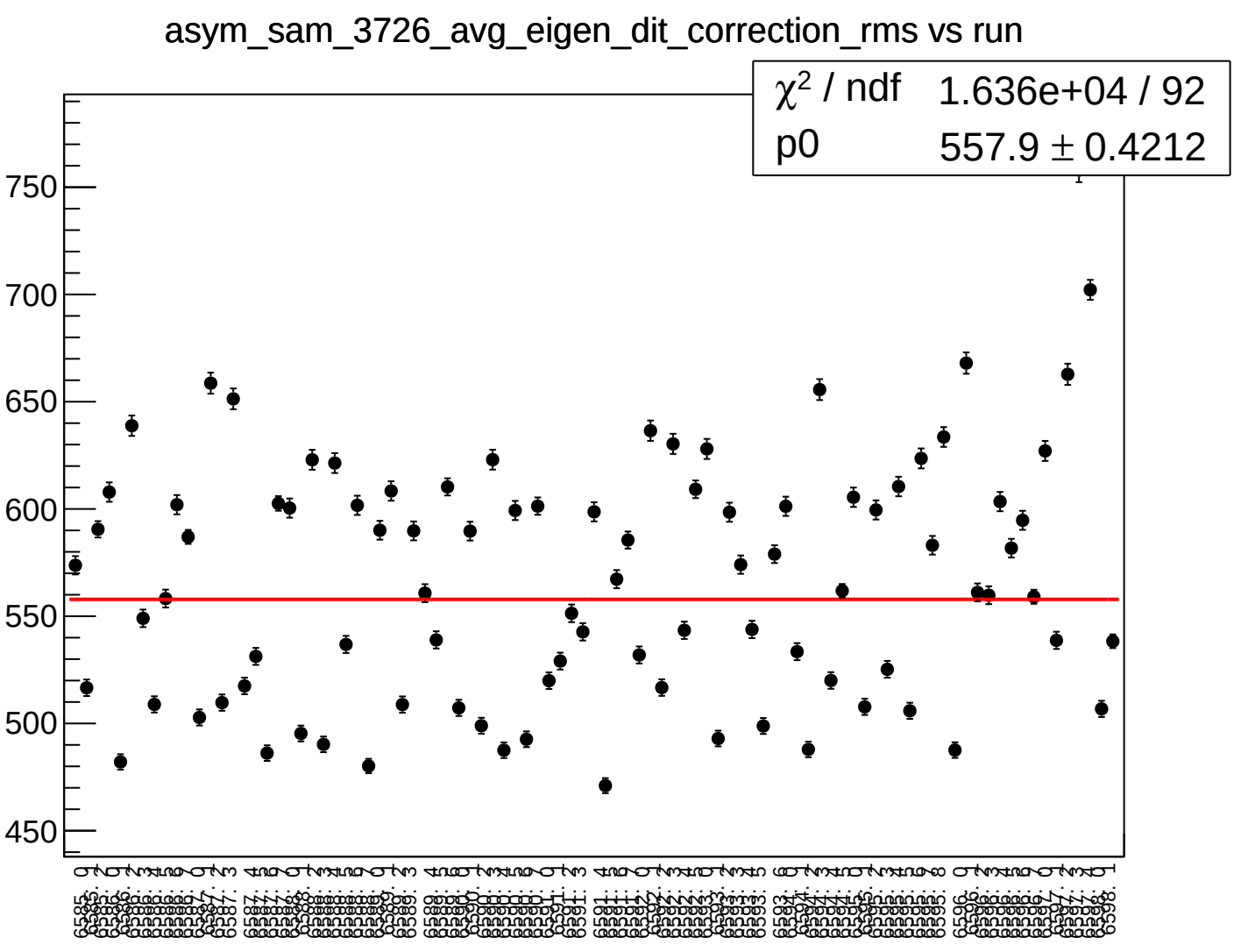

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.636e+04 / 92
p0 557.9 ± 0.4212
750
700
650
600
550
500
450

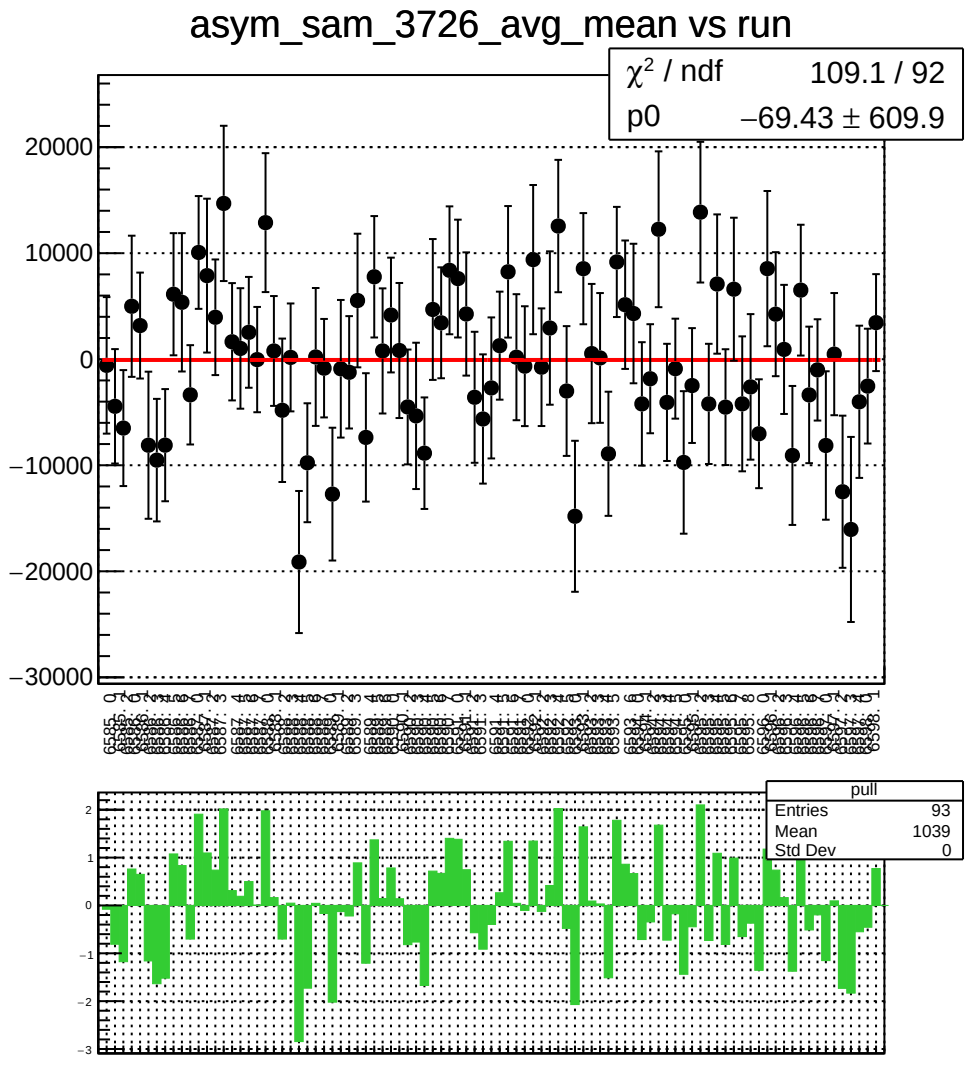

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 79.49 / 92
p0 −3.707 ± 87.45
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −45.27
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

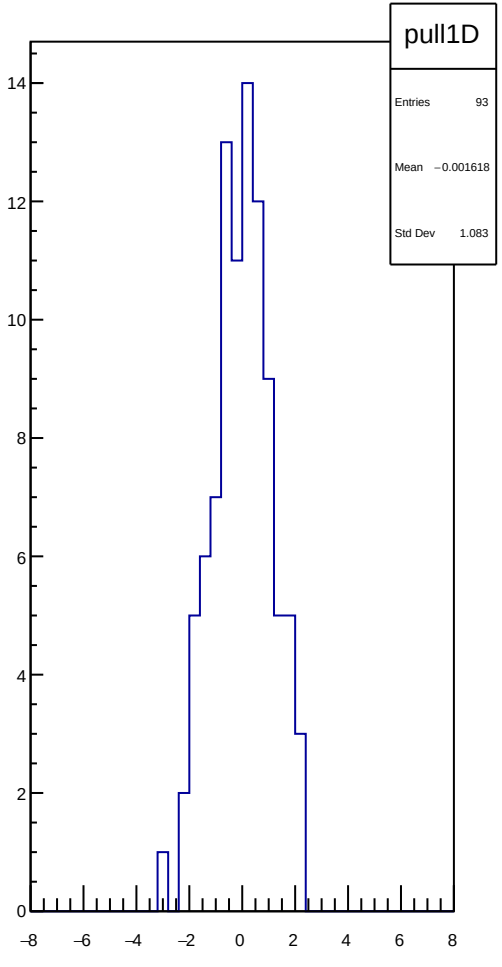

pull1D
Entries 93
Mean 0.01686
Std Dev 0.9244
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

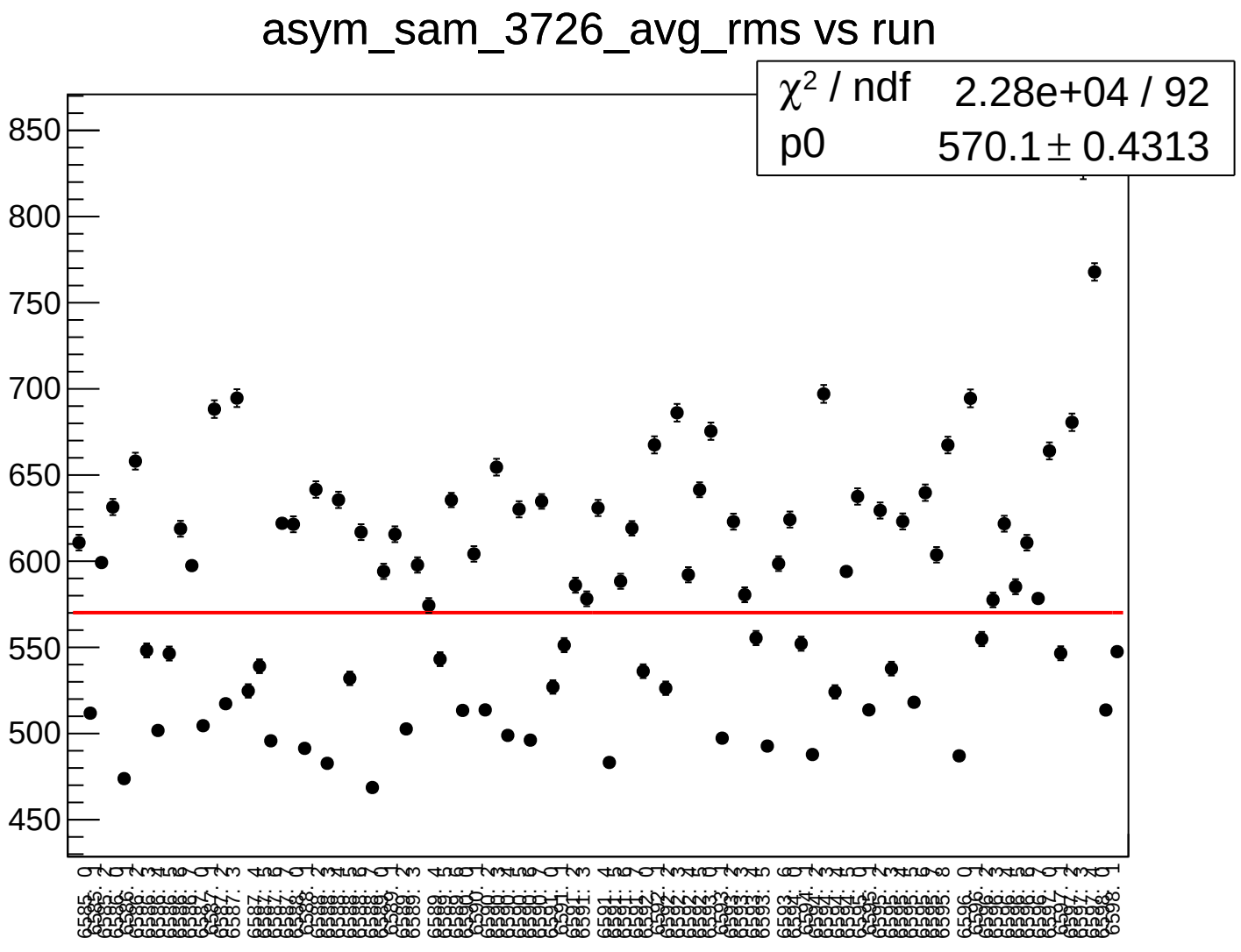

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.677e+04 / 92
p0 81.42 ± 0.06184
130
120
110
100
90
80
70

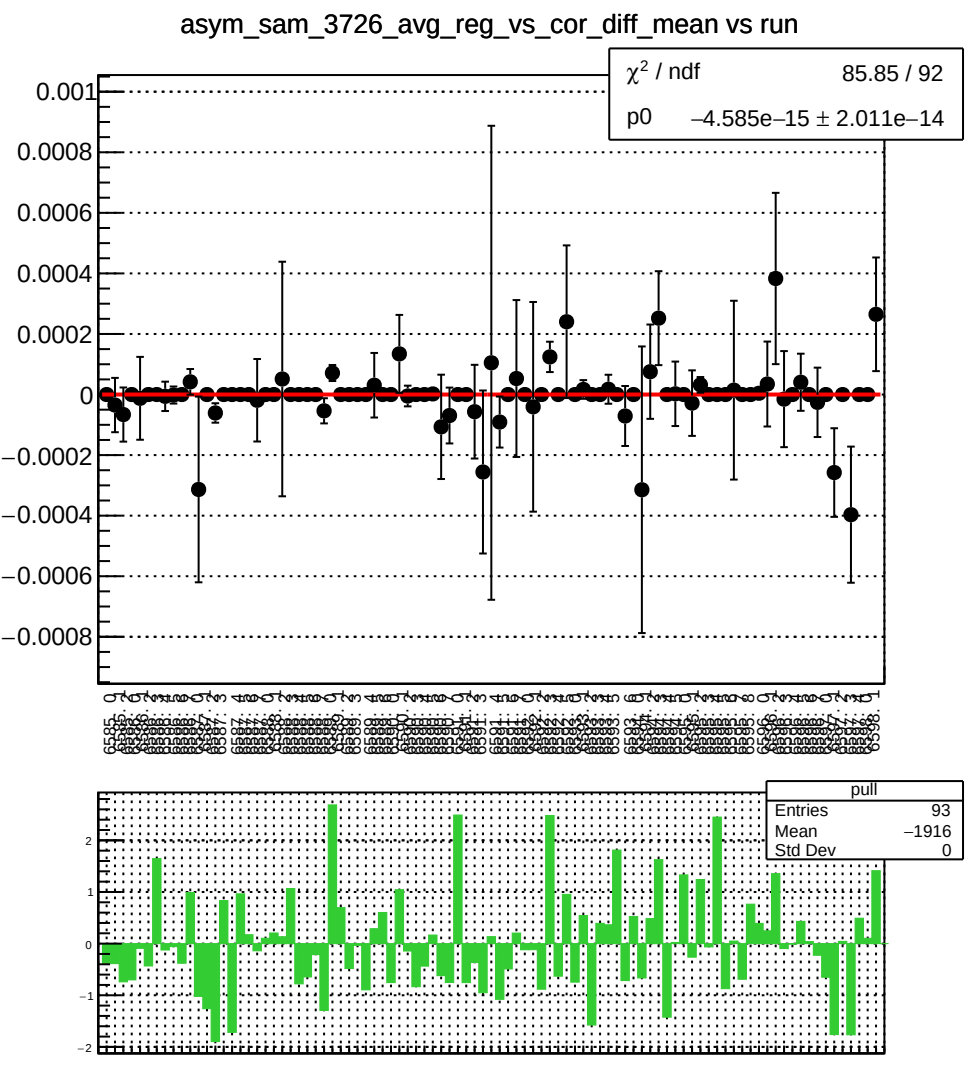

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 113 / 92
p0 83 ± 595.7
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 548.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00309
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

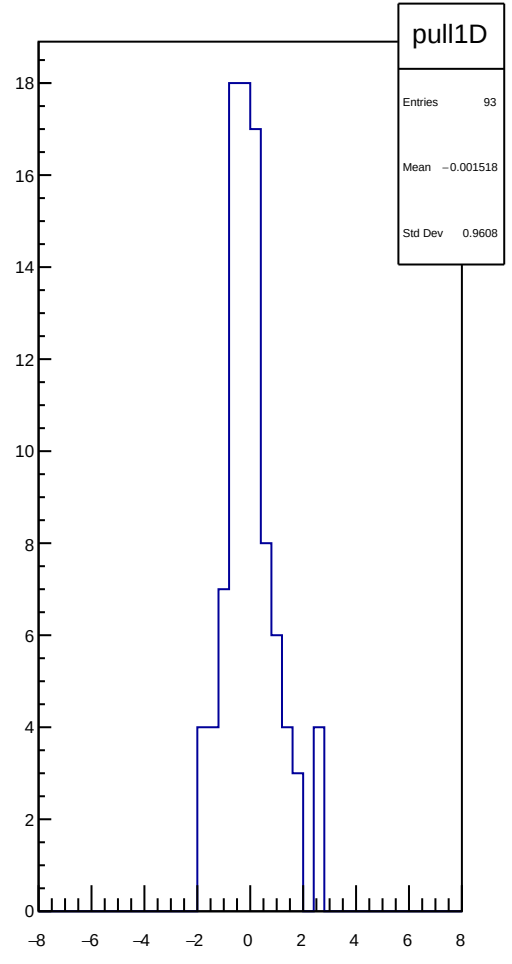

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.636e+04 / 92
p0 557.9 ± 0.4212
750
700
650
600
550
500
450

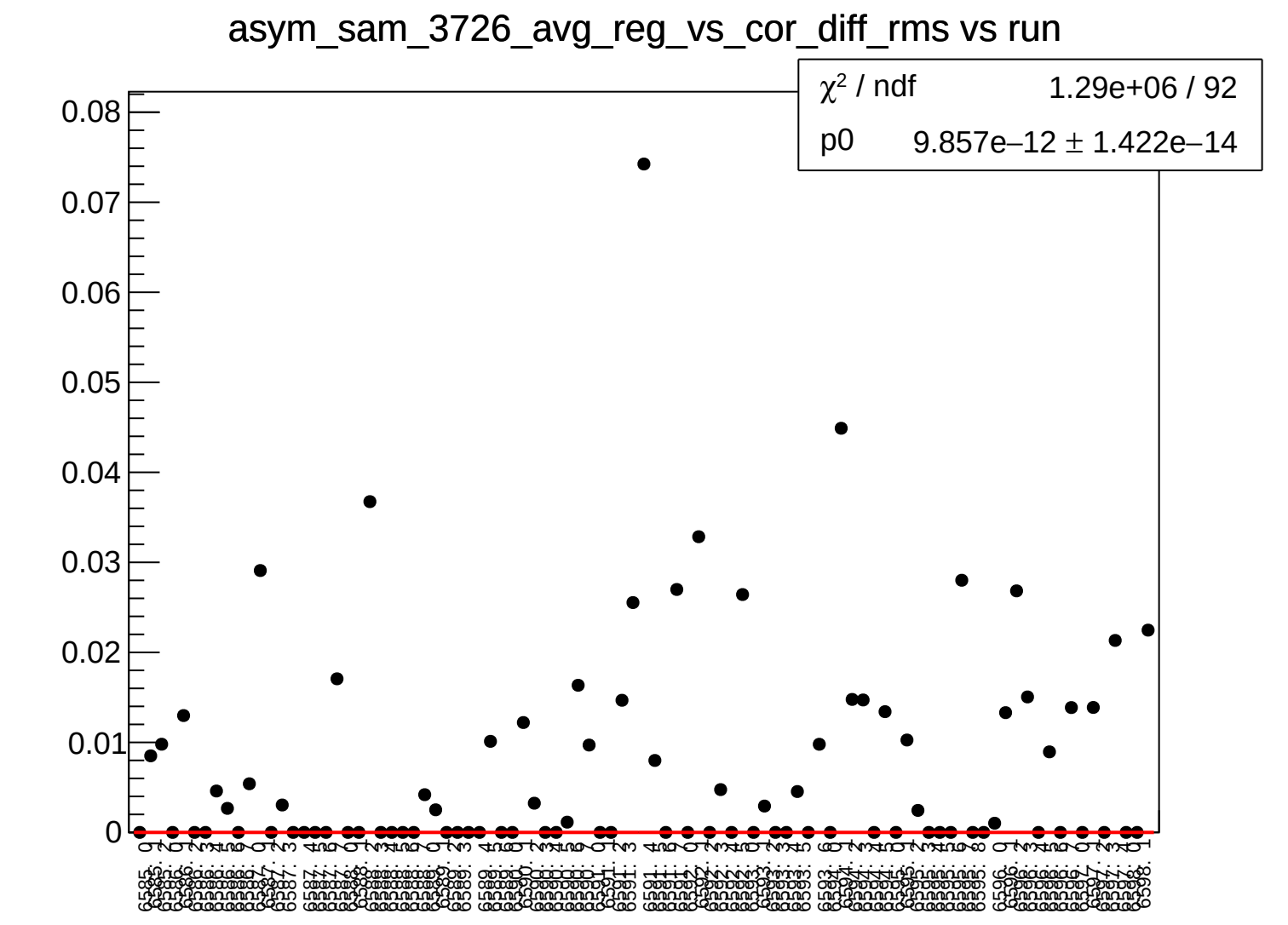

asym_sam_3726_avg_mean vs run
χ² / ndf 109.1 / 92
p0 −69.43 ± 609.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 1039
Std Dev 0
2
1
0
−1
−2
−3

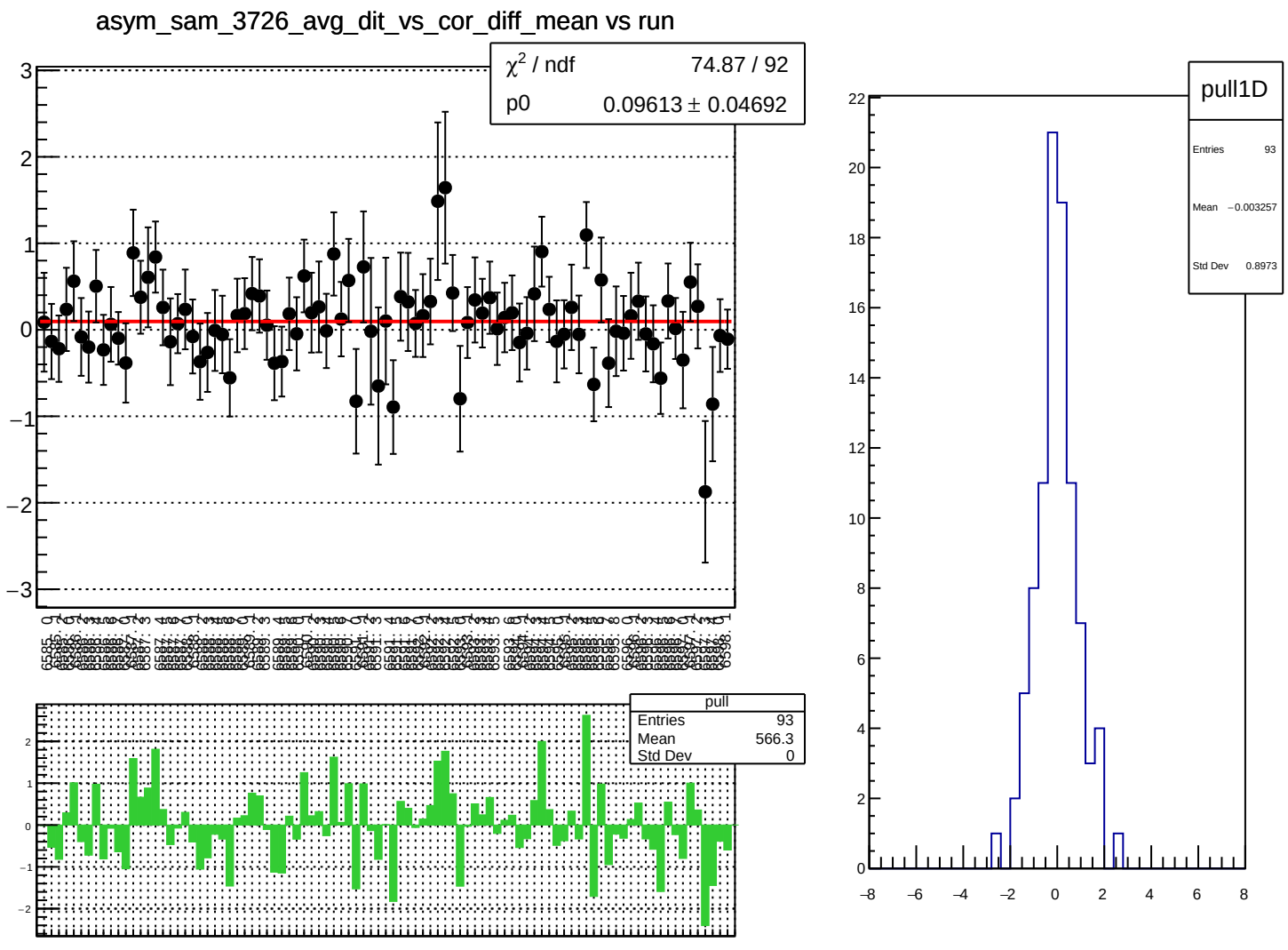

pull1D
Entries 93
Mean −0.001618
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

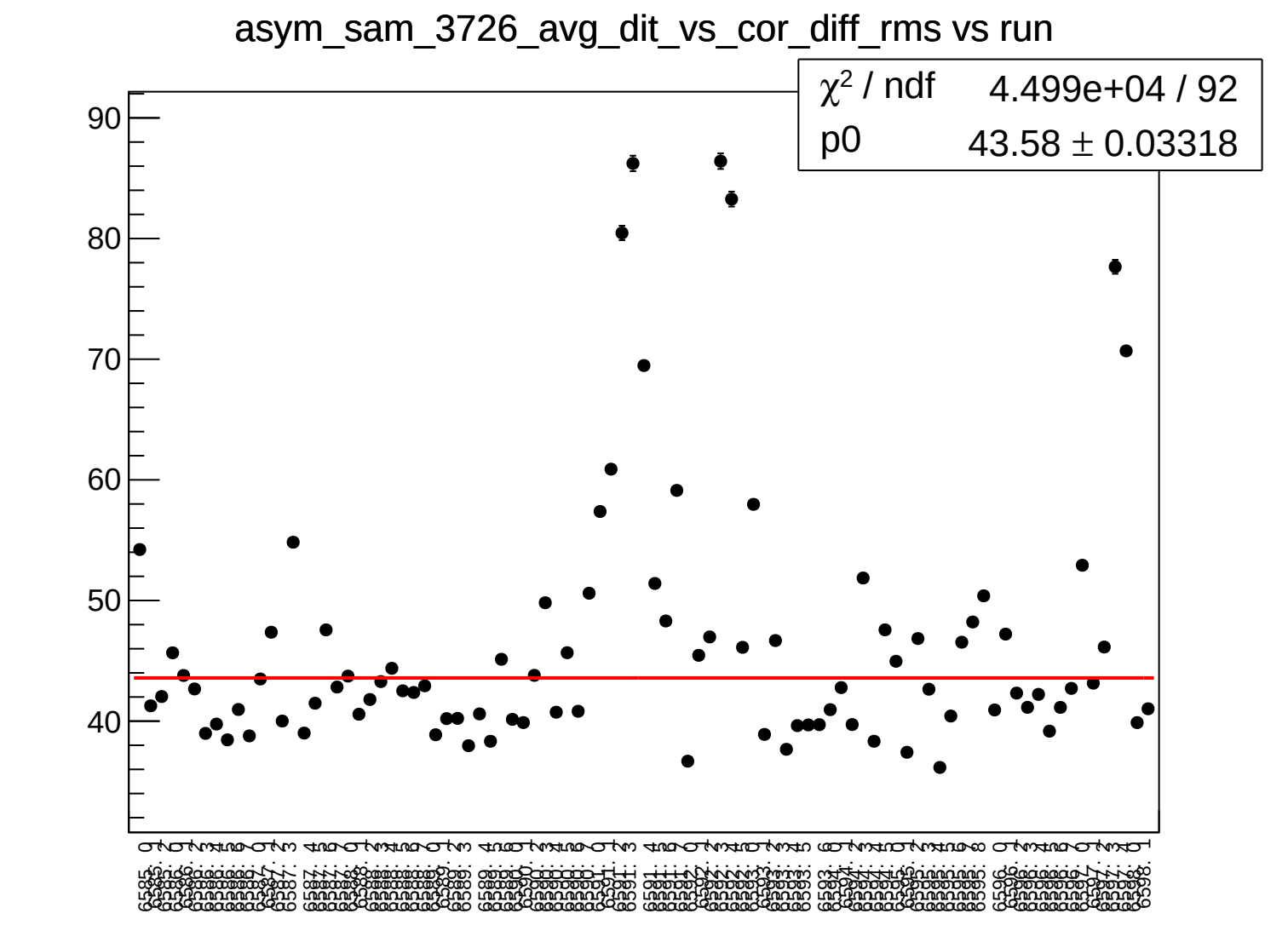

asym_sam_3726_avg_rms vs run
χ² / ndf 2.28e+04 / 92
p0 570.1 ± 0.4313
850
800
750
700
650
600
550
500
450

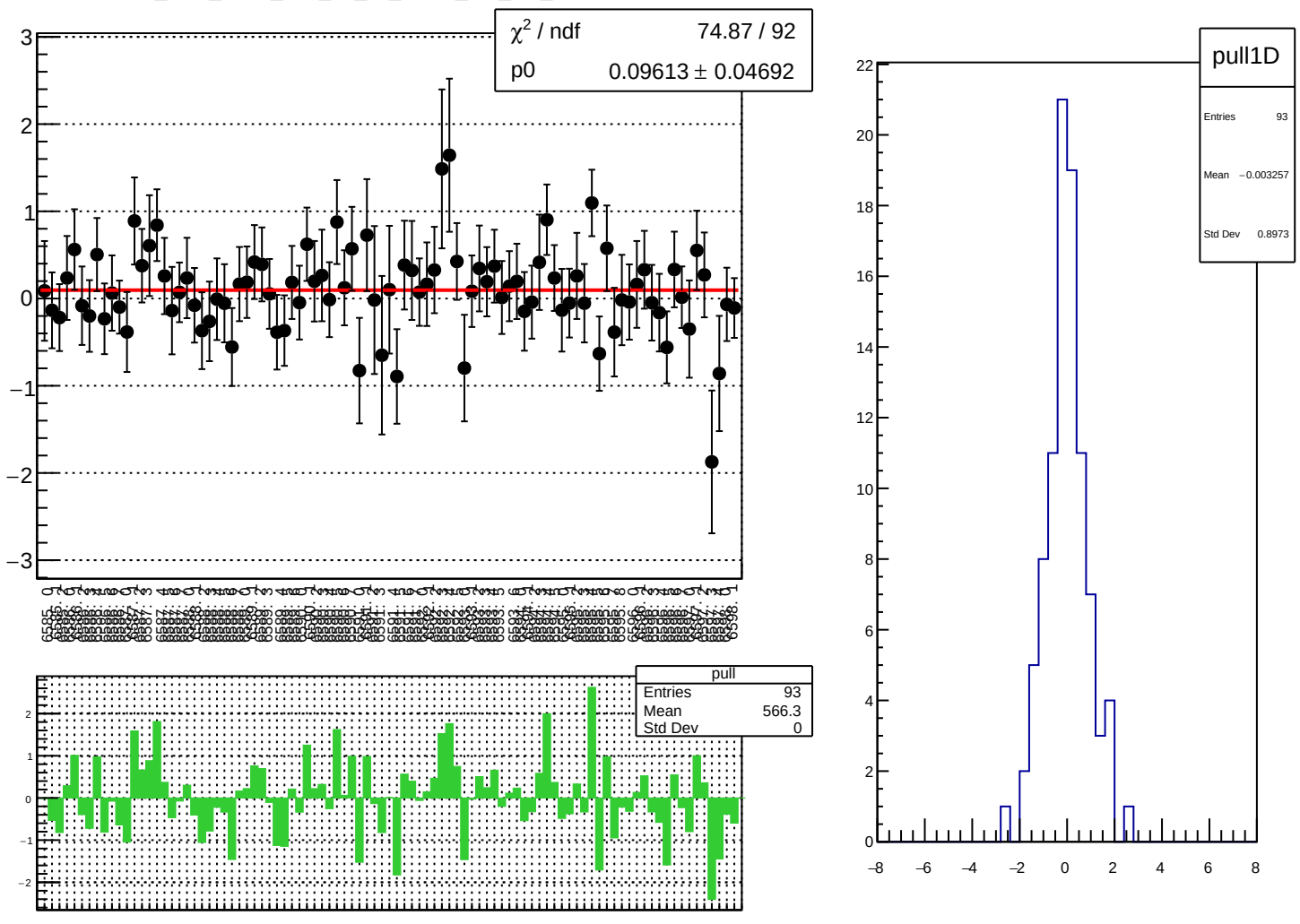

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.85 / 92
p0 −4.585e−15 ± 2.011e−14
pull
Entries 93
Mean −1916
Std Dev 0

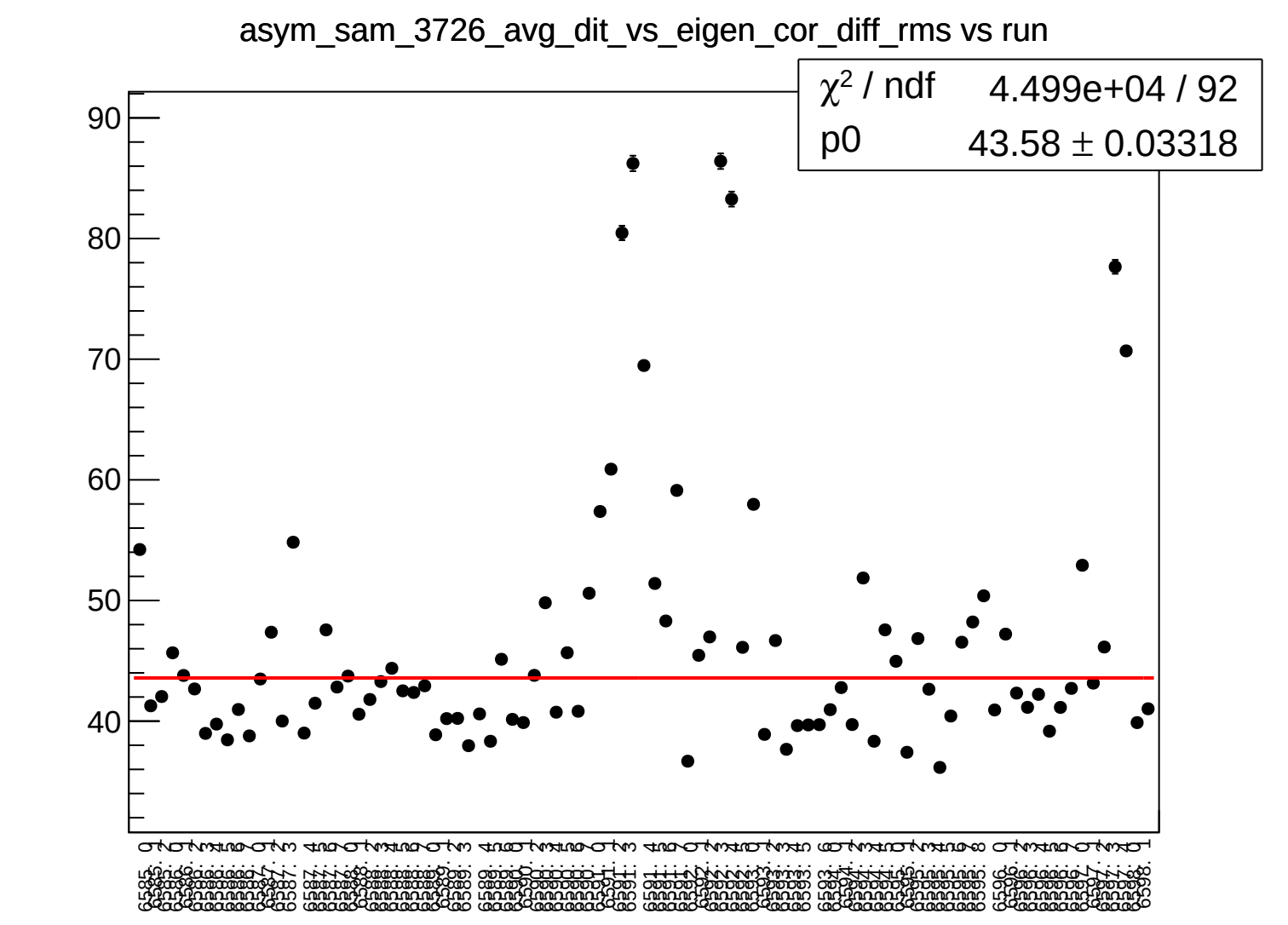

pull1D
Entries 93
Mean −0.001518
Std Dev 0.9608

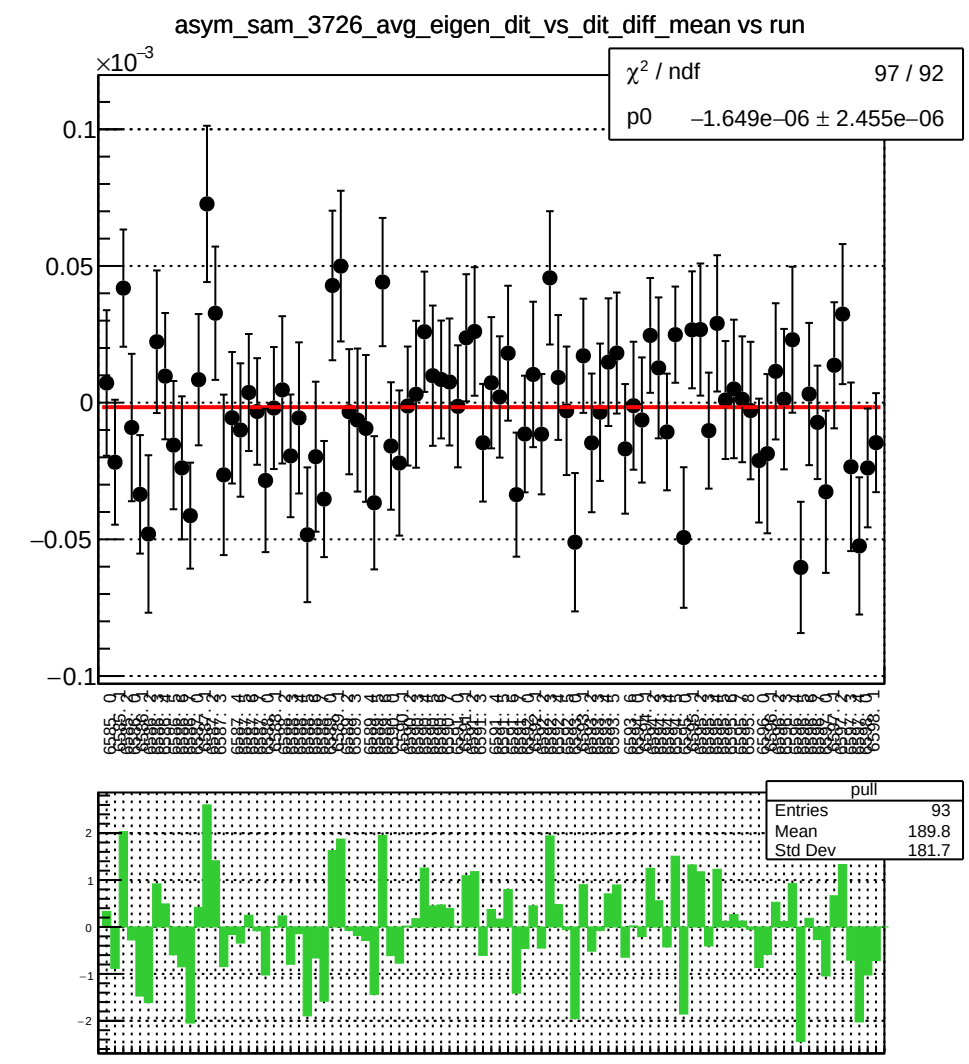

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.29e+06 / 92
p0 9.857e−12 ± 1.422e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

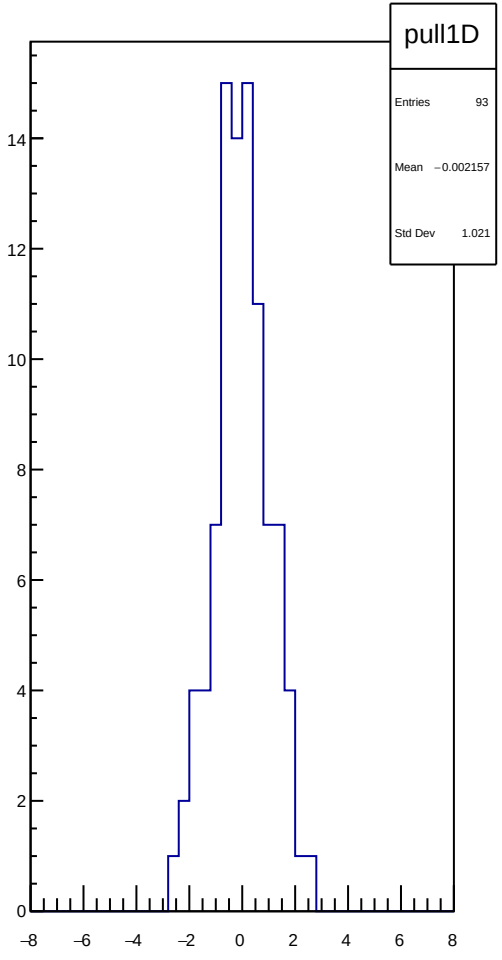

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.87 / 92
p0 0.09613 ± 0.04692
pull
Entries 93
Mean 566.3
Std Dev 0
pull1D
Entries 93
Mean −0.003257
Std Dev 0.8973

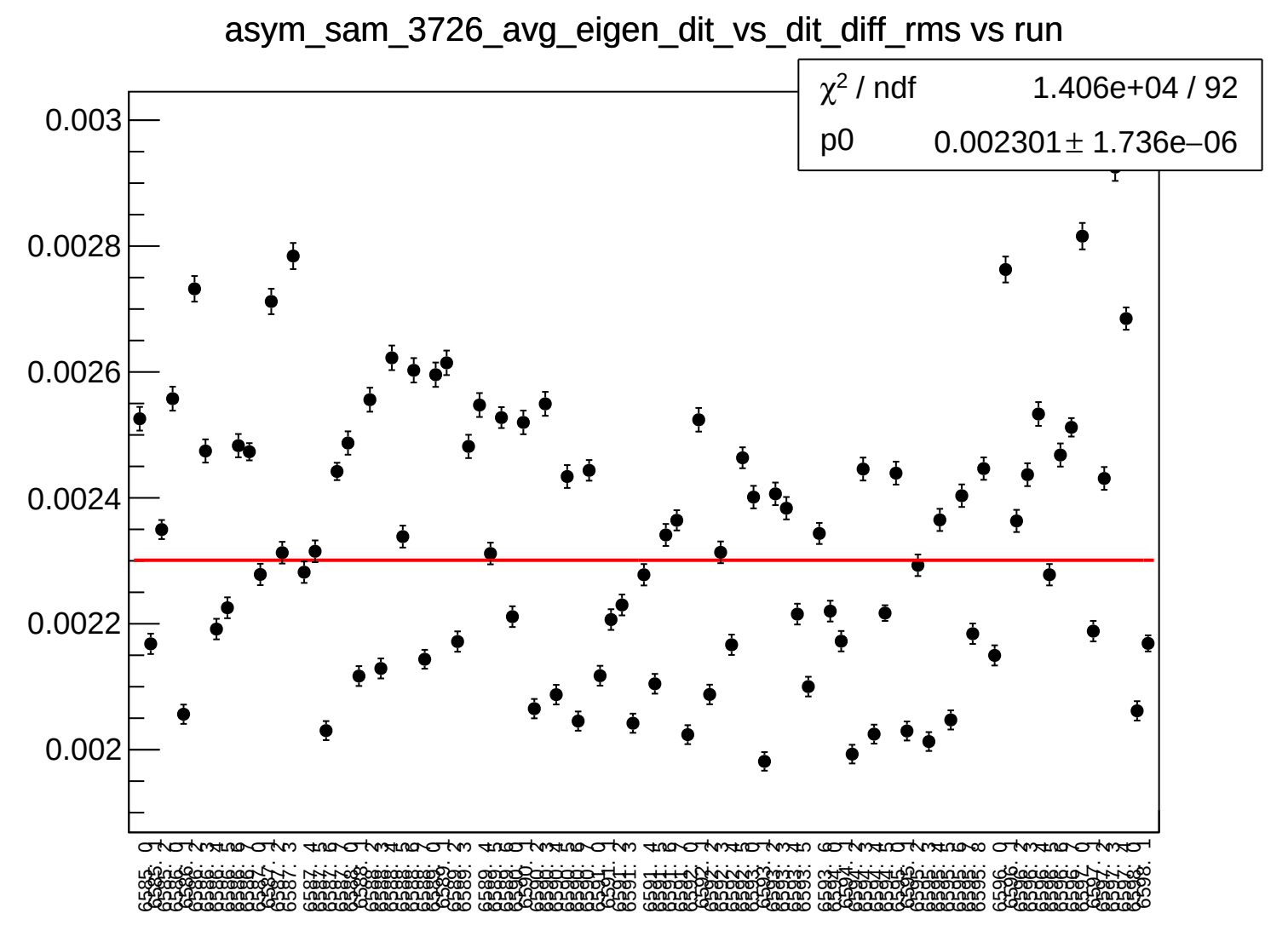

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.499e+04 / 92
p0 43.58 ± 0.03318
90
80
70
60
50
40

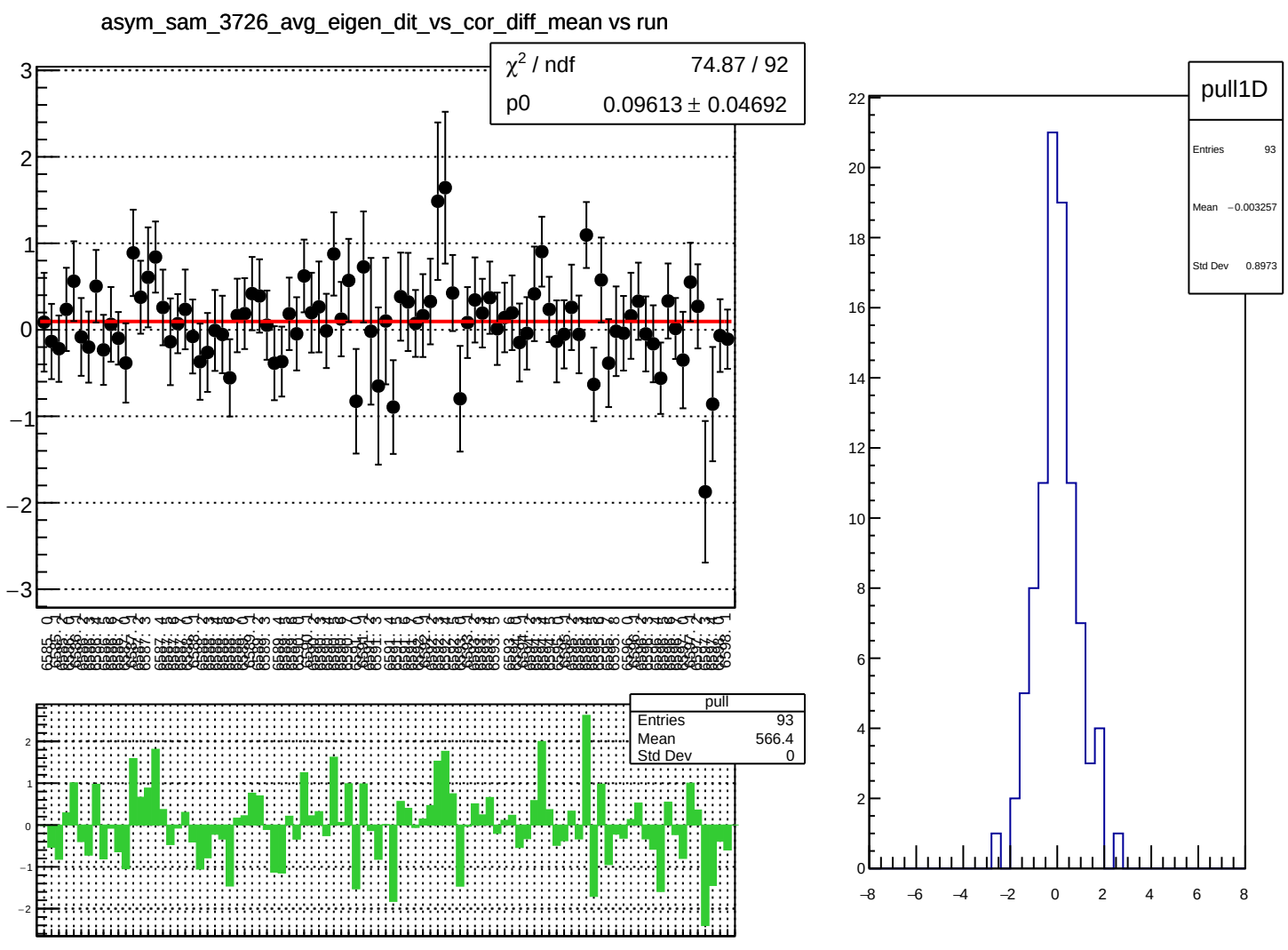

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.87 / 92
p0 0.09613 ± 0.04692
pull
Entries 93
Mean 566.3
Std Dev 0
pull1D
Entries 93
Mean −0.003257
Std Dev 0.8973

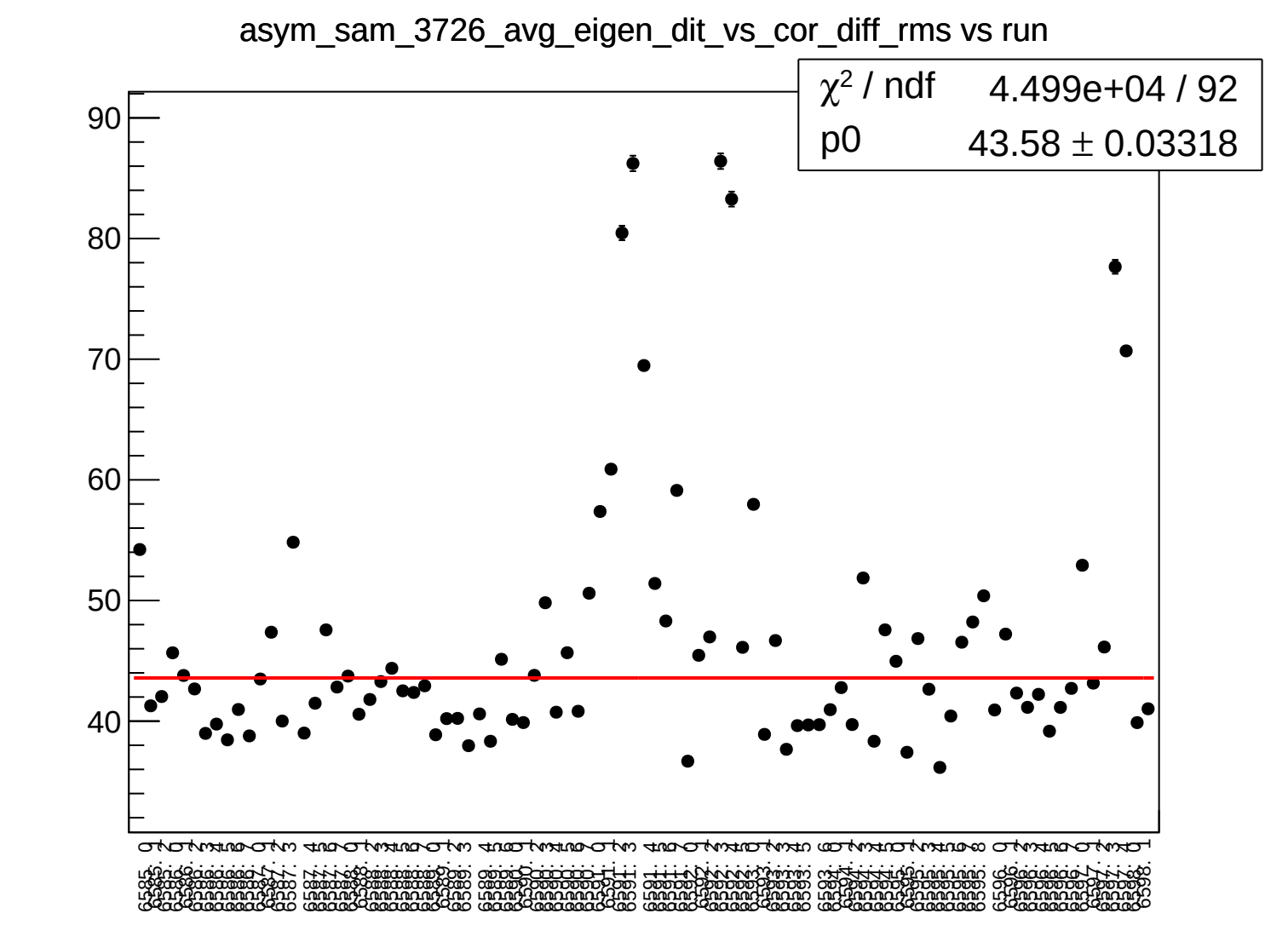

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.499e+04 / 92
p0 43.58 ± 0.03318
90
80
70
60
50
40

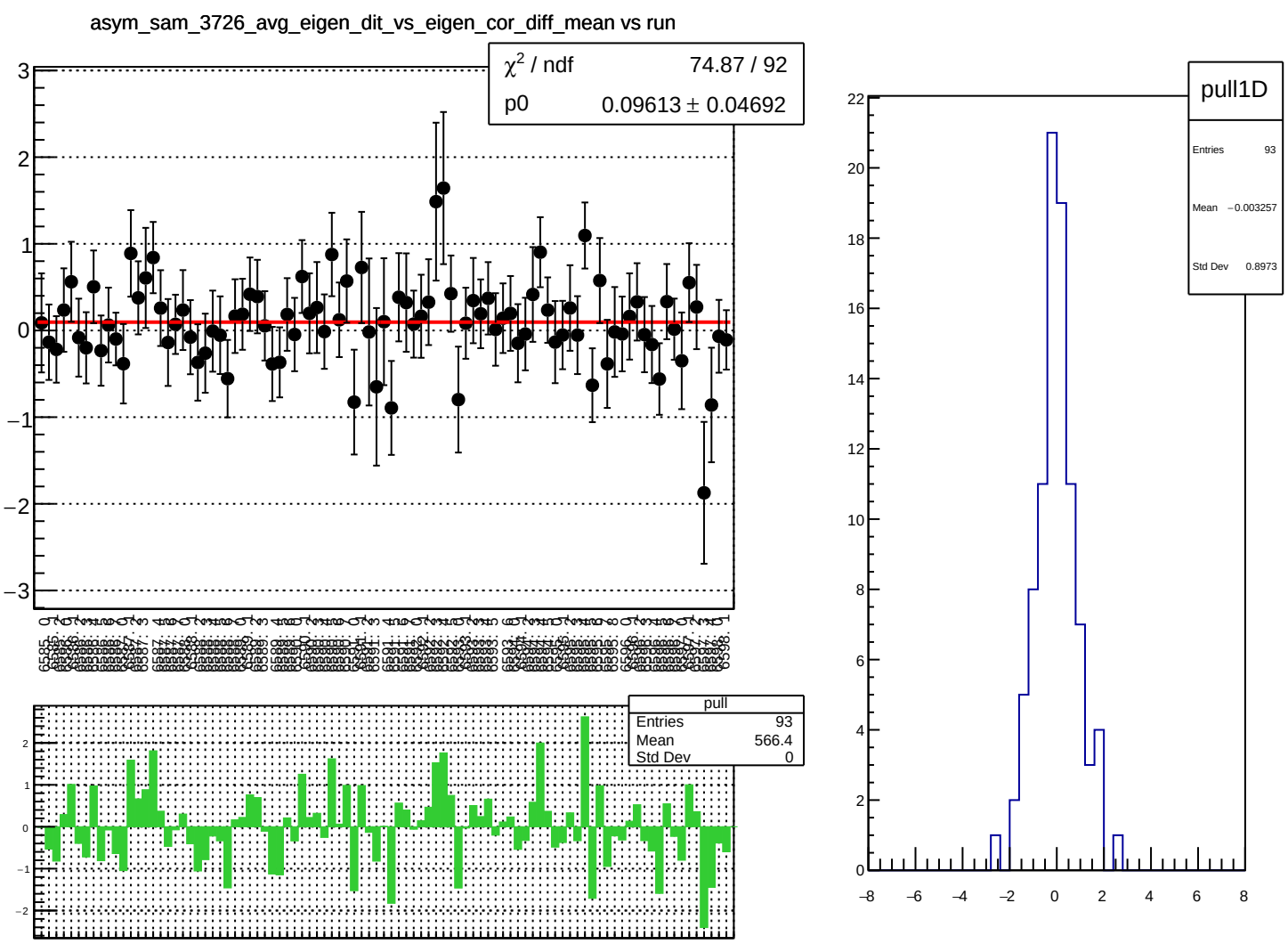

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97 / 92
p0 −1.649e−06 ± 2.455e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 189.8
Std Dev 181.7
2
1
0
−1
−2

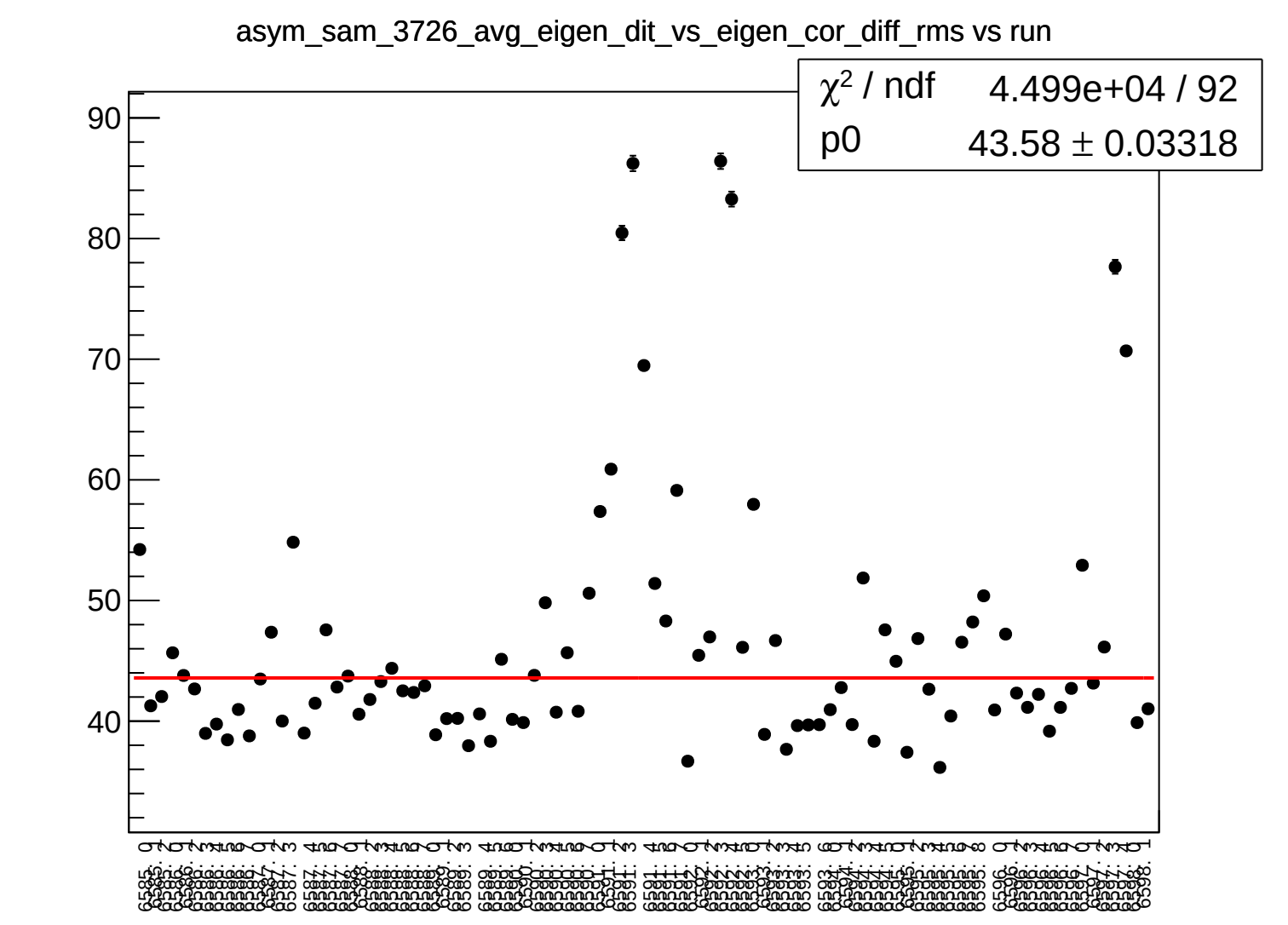

pull1D
Entries 93
Mean −0.002157
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

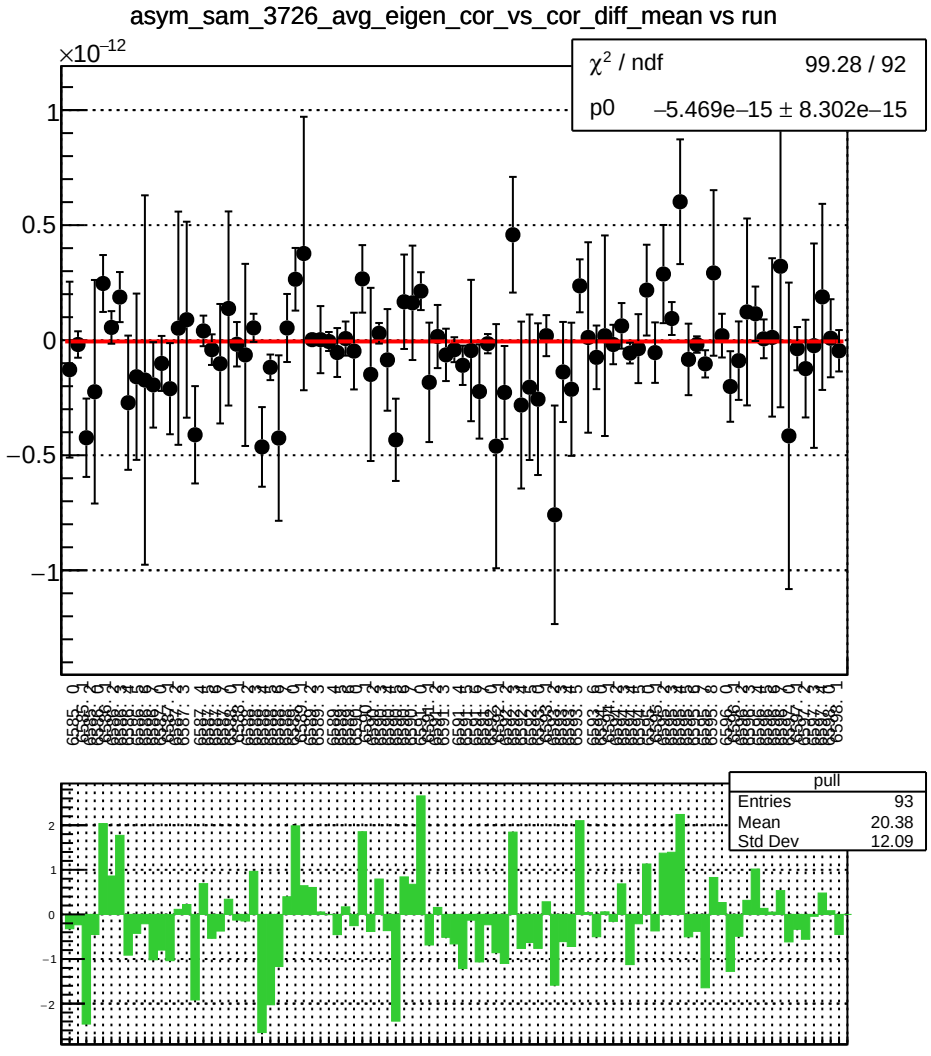

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.406e+04 / 92
p0 0.002301 ± 1.736e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

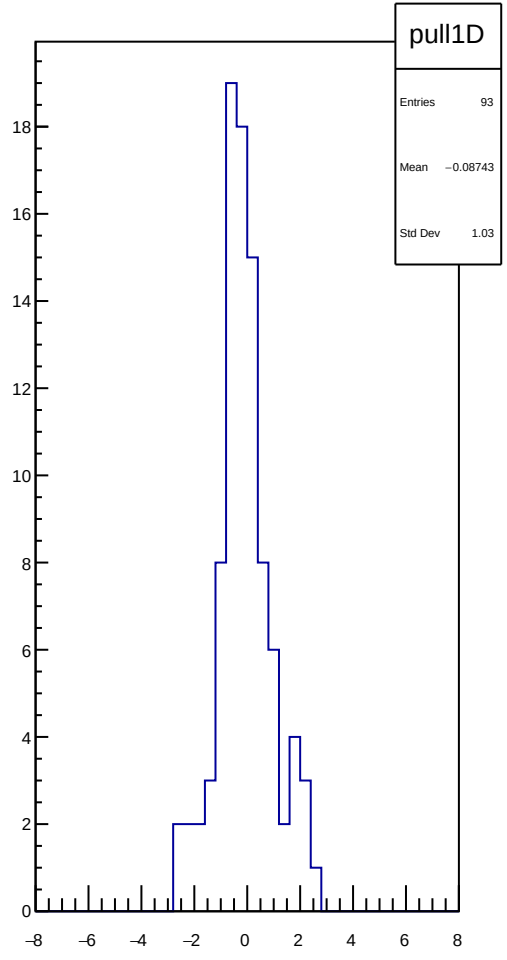

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.87 / 92
p0 0.09613 ± 0.04692
pull
Entries 93
Mean 566.4
Std Dev 0
pull1D
Entries 93
Mean −0.003257
Std Dev 0.8973

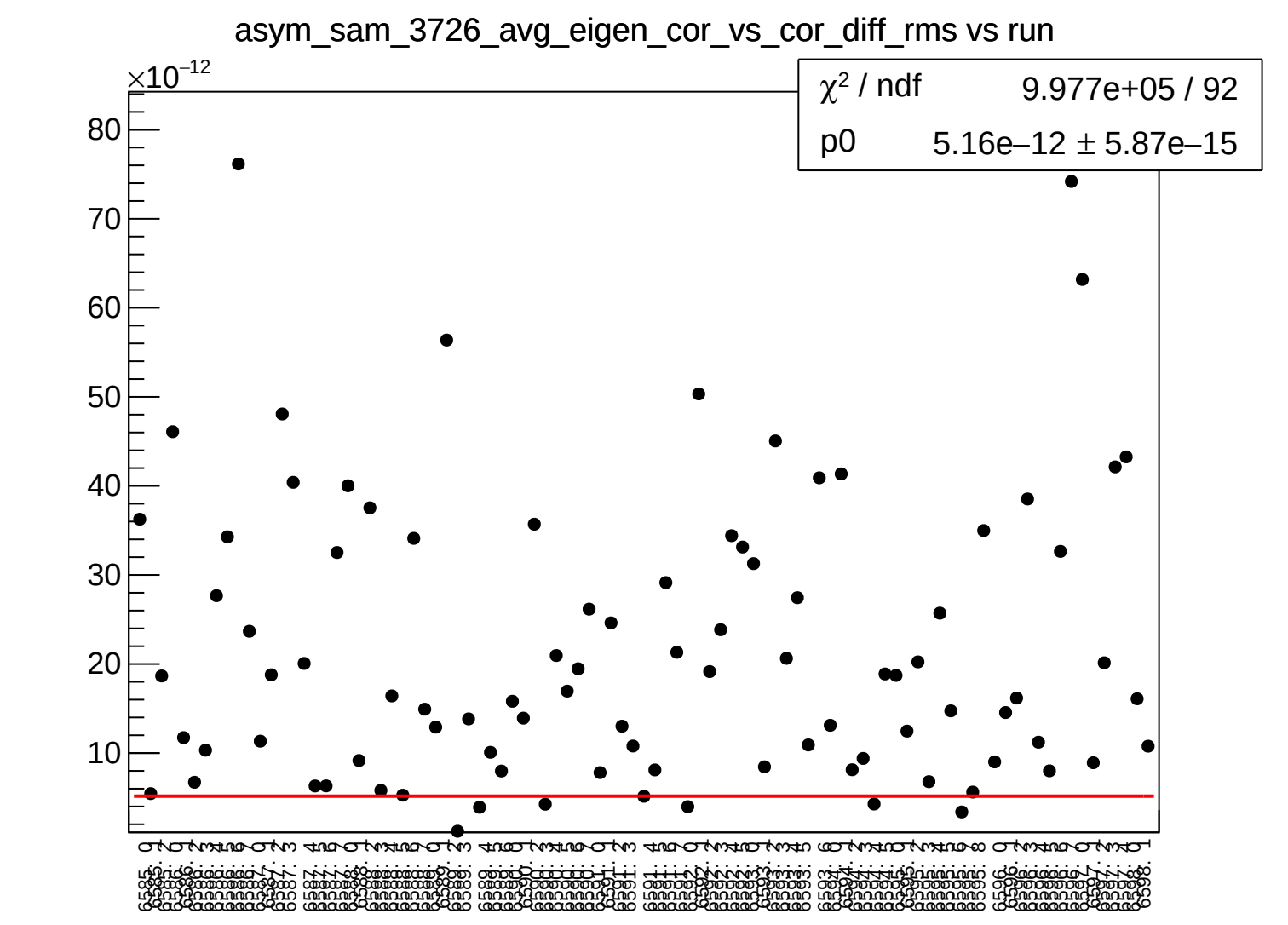

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.499e+04 / 92
p0 43.58 ± 0.03318
90
80
70
60
50
40

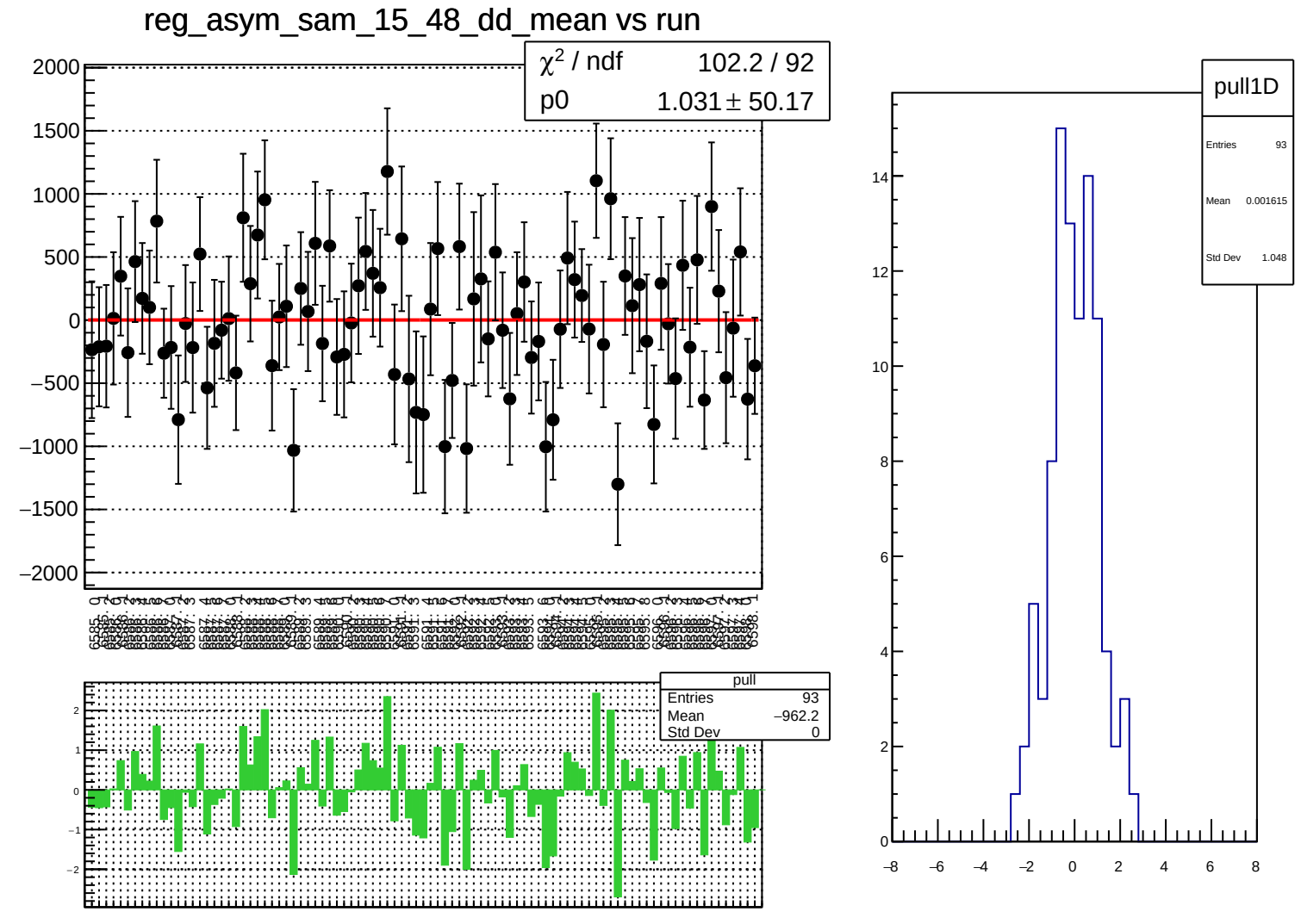

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.87 / 92
p0 0.09613 ± 0.04692
pull
Entries 93
Mean 566.4
Std Dev 0
pull1D
Entries 93
Mean −0.003257
Std Dev 0.8973

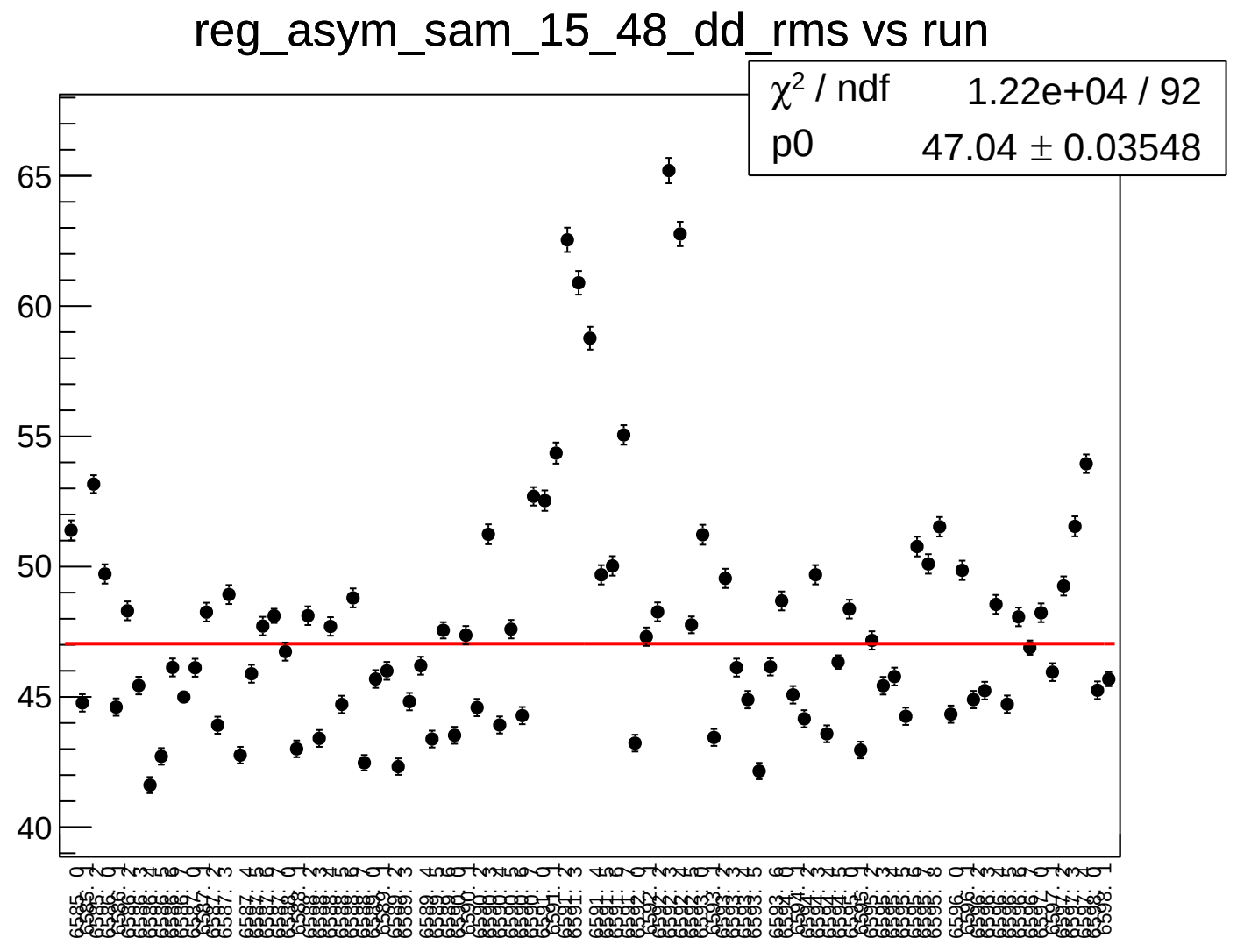

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.499e+04 / 92
p0 43.58 ± 0.03318
90
80
70
60
50
40

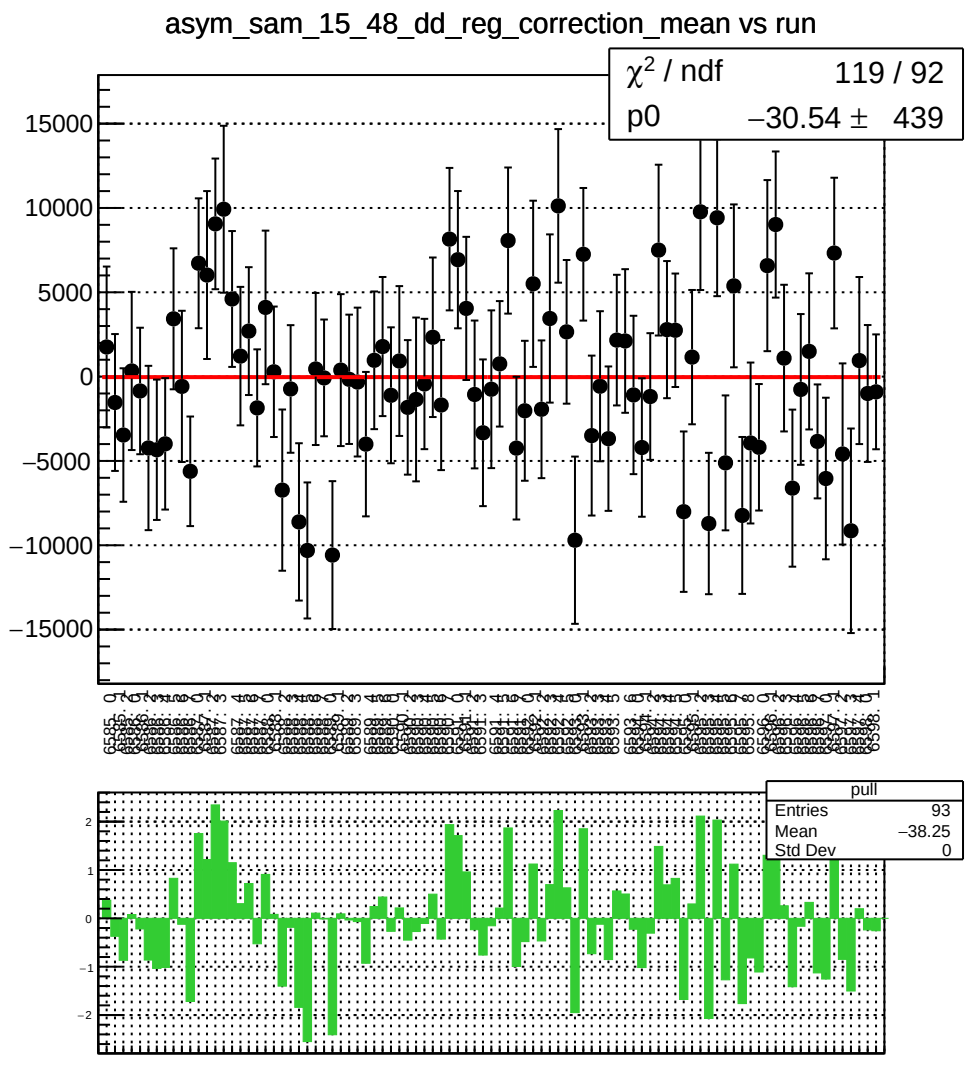

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.28 / 92
p0 −5.469e−15 ± 8.302e−15
pull
Entries 93
Mean 20.38
Std Dev 12.09

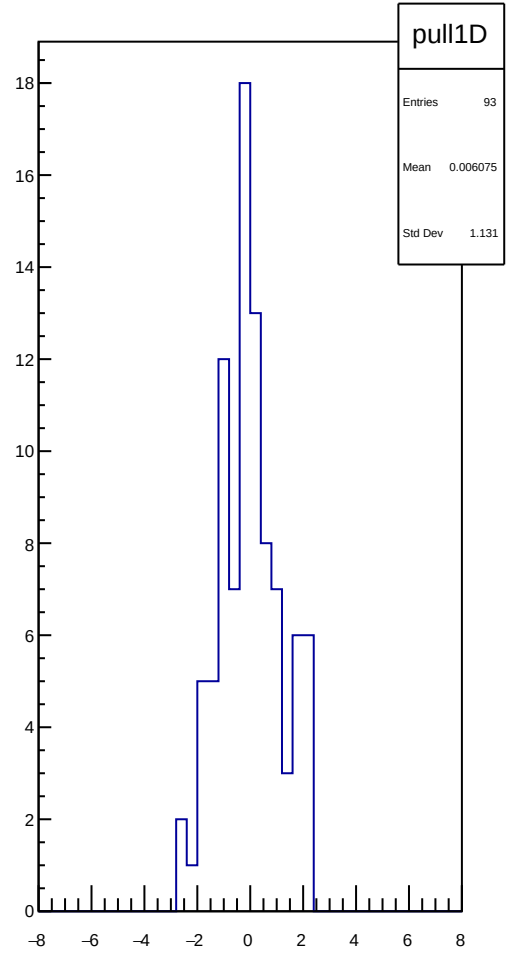

pull1D
Entries 93
Mean −0.08743
Std Dev 1.03

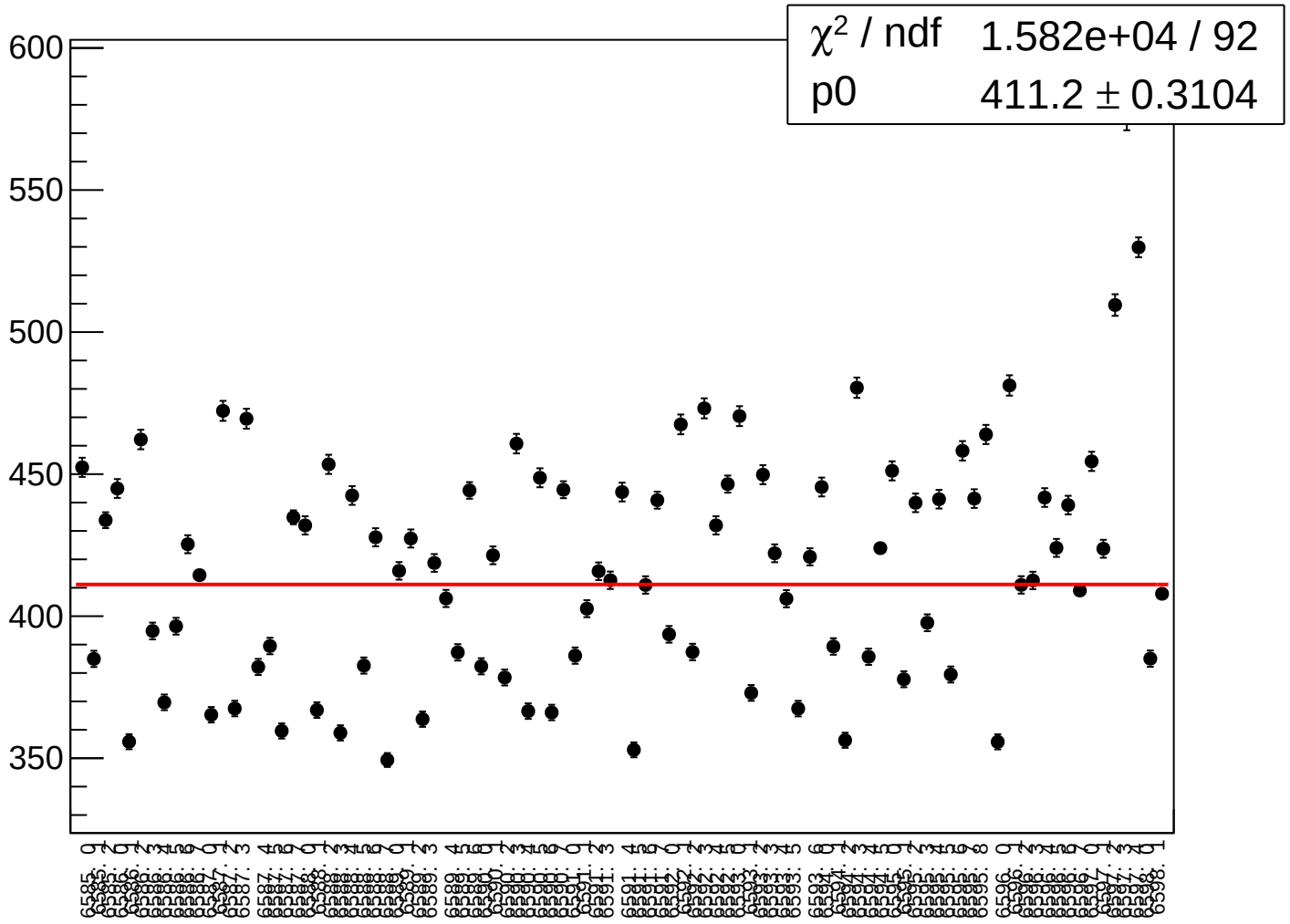

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.977e+05 / 92
p0 5.16e−12 ± 5.87e−15
80
70
60
50
40
30
20
10

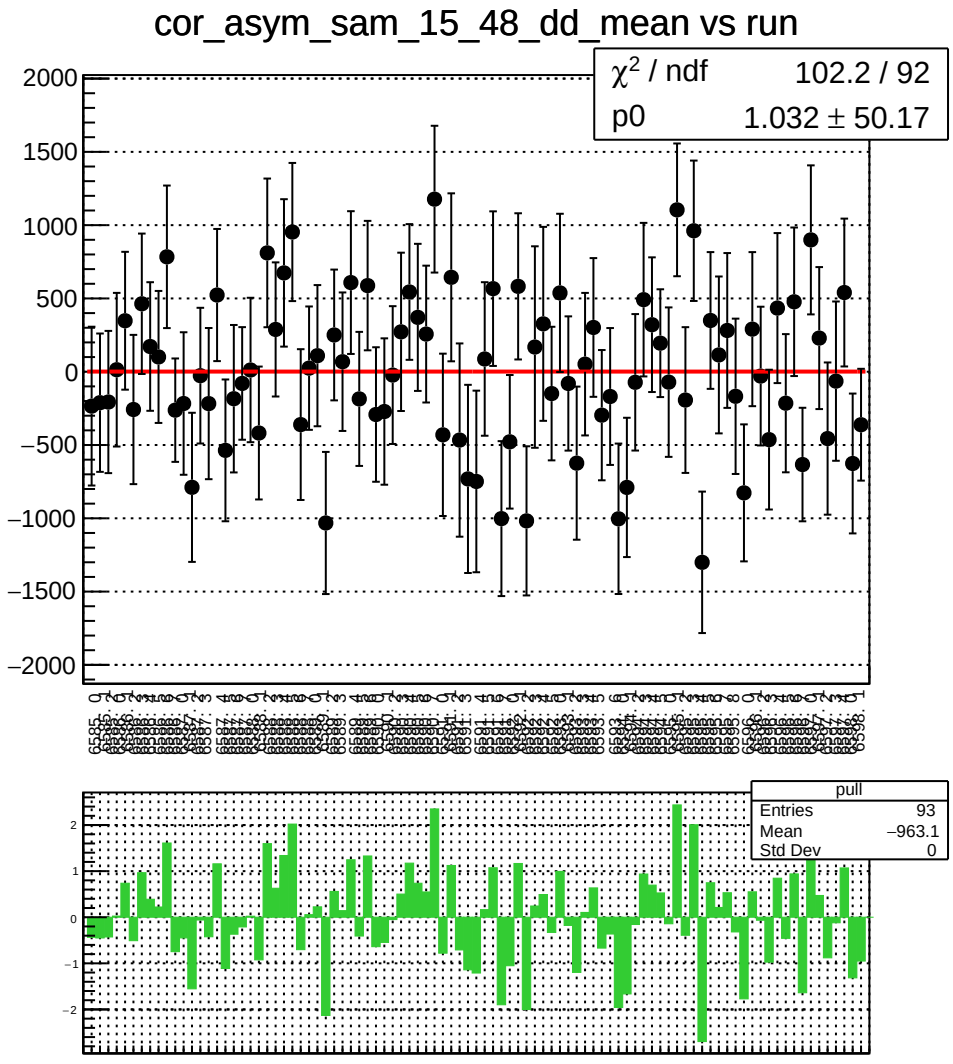

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 102.2 / 92
p0 1.031 ± 50.17
pull
Entries 93
Mean −962.2
Std Dev 0
pull1D
Entries 93
Mean 0.001615
Std Dev 1.048

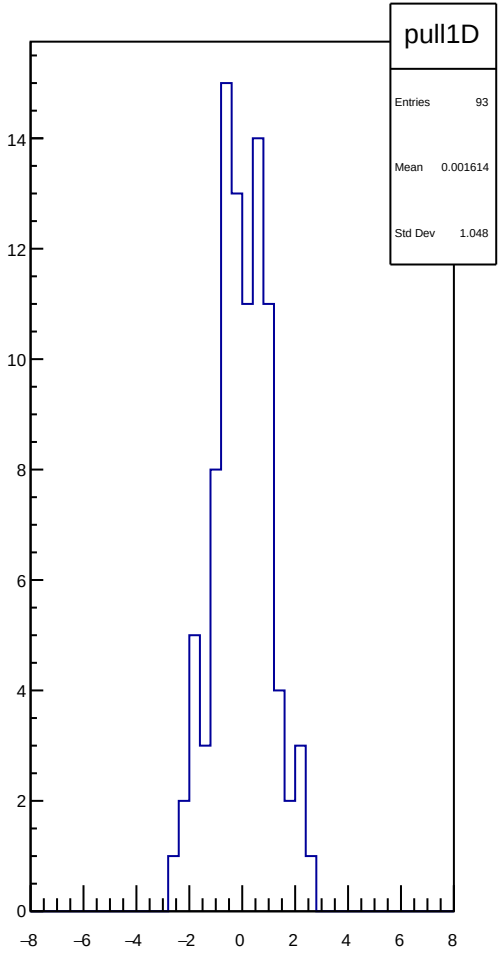

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.22e+04 / 92
p0 47.04 ± 0.03548
65
60
55
50
45
40

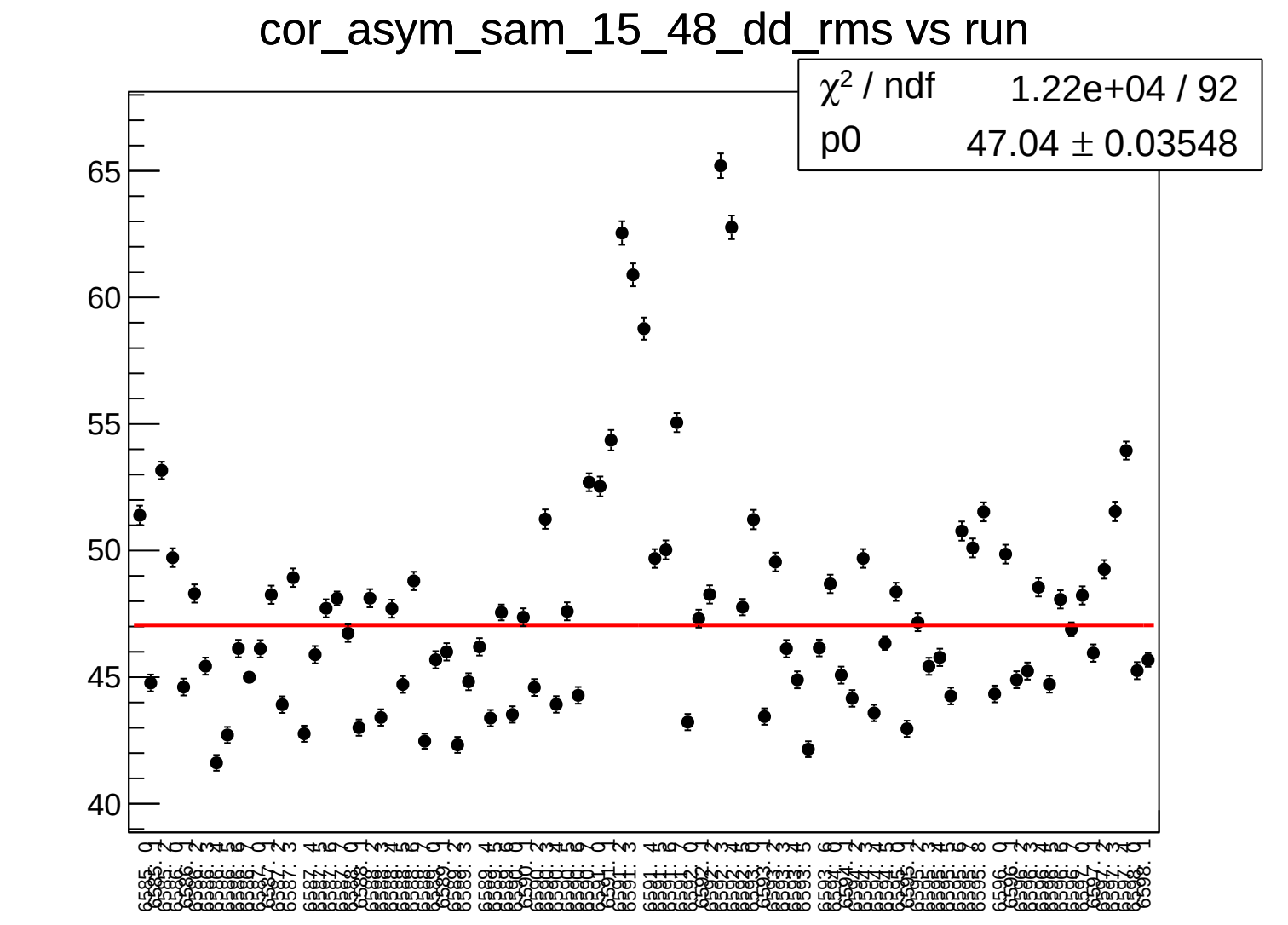

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 119 / 92
p0 −30.54 ± 439
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −38.25
Std Dev 0
2
1
0
−1
−2

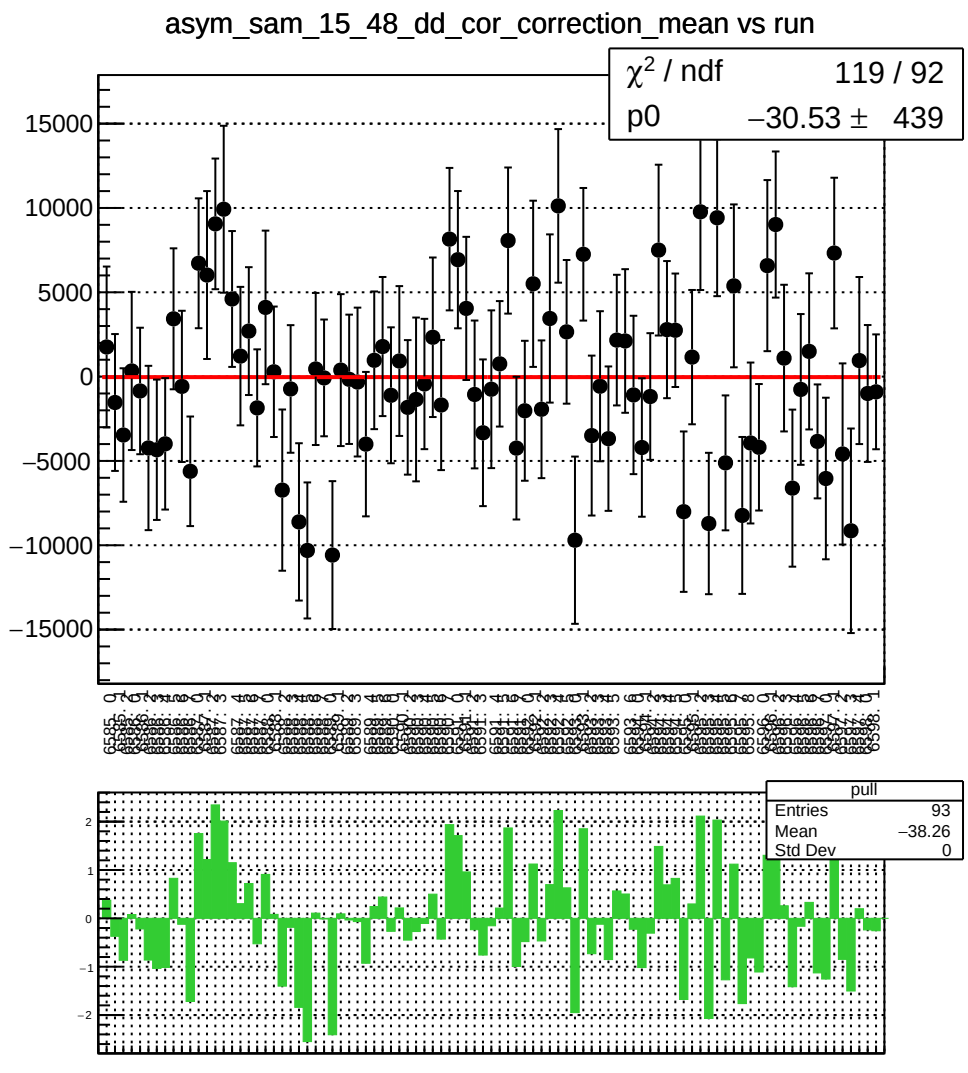

pull1D
Entries 93
Mean 0.006075
Std Dev 1.131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

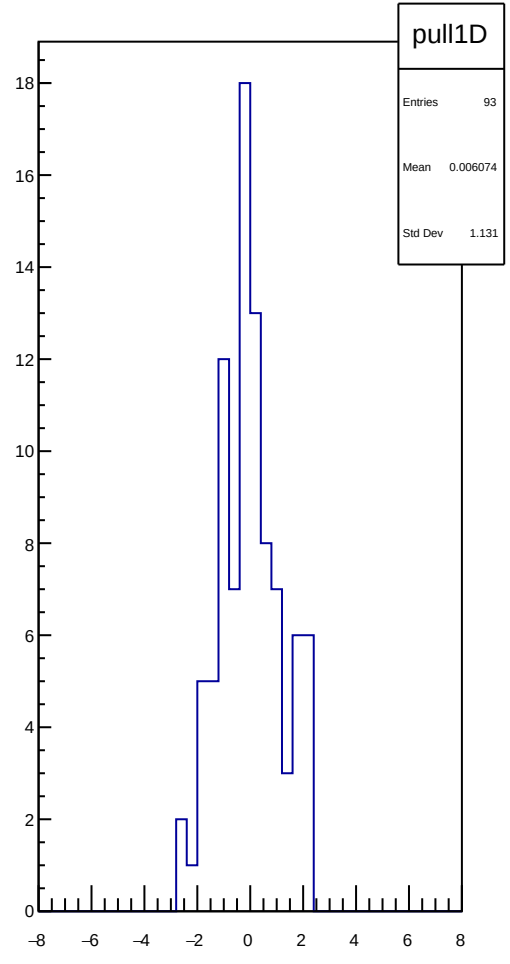

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.582e+04 / 92
p0 411.2 ± 0.3104
600
550
500
450
400
350

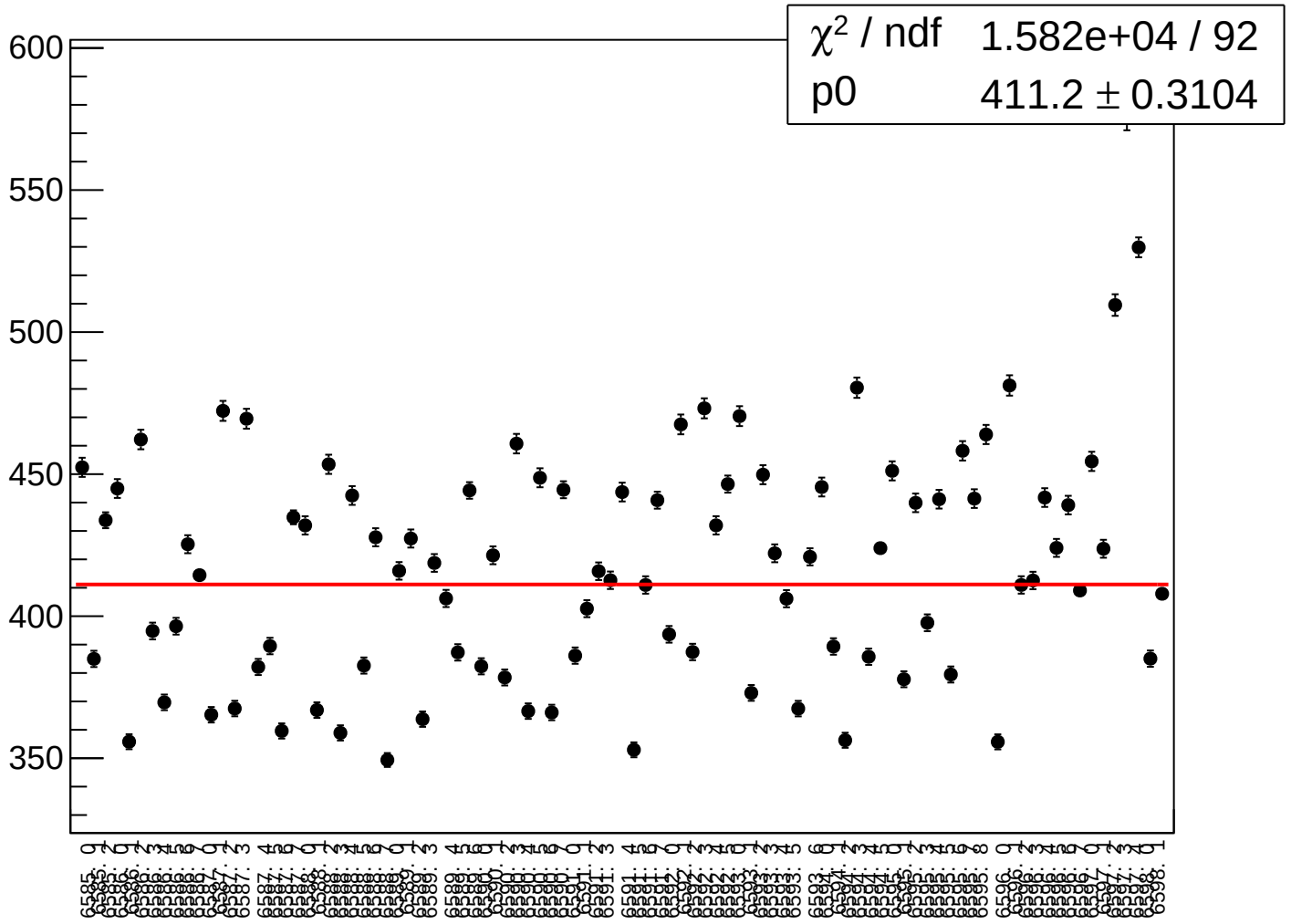

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 102.2 / 92
p0 1.032 ± 50.17
pull
Entries 93
Mean −963.1
Std Dev 0

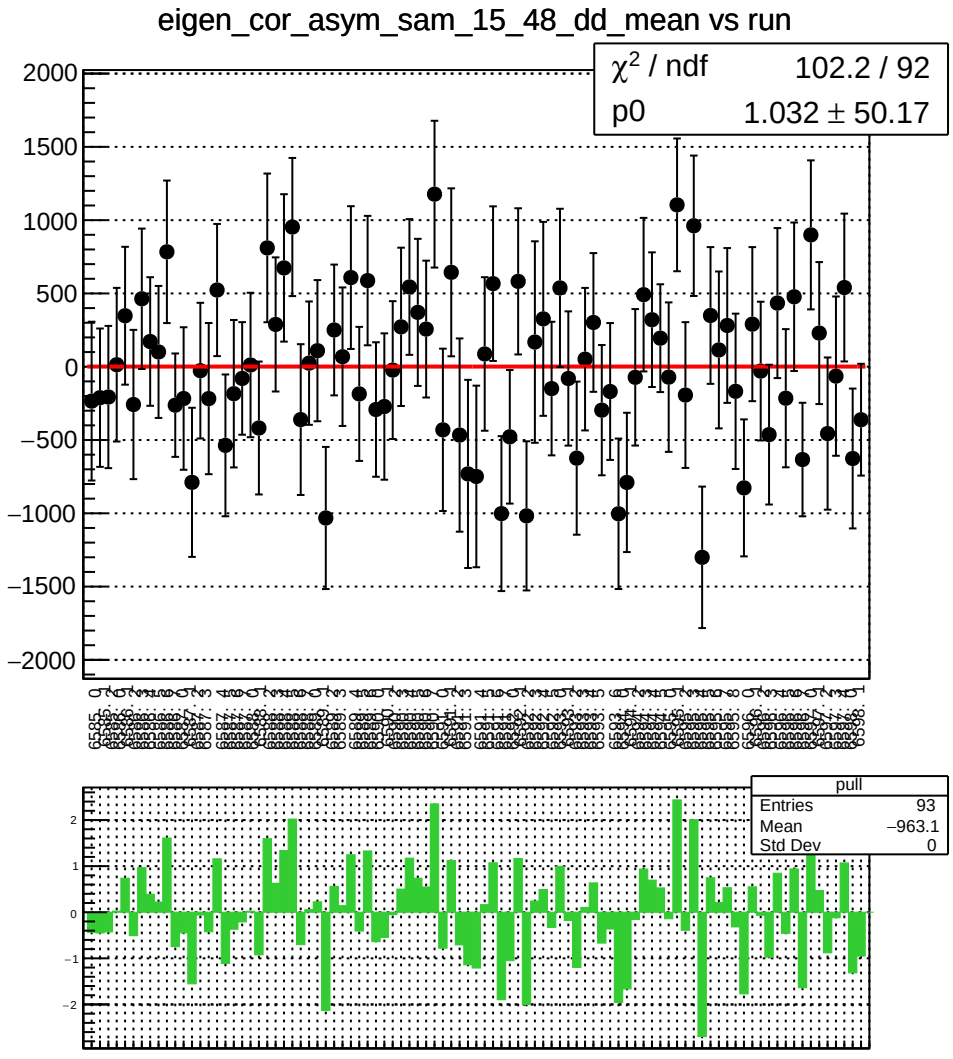

pull1D
Entries 93
Mean 0.001614
Std Dev 1.048

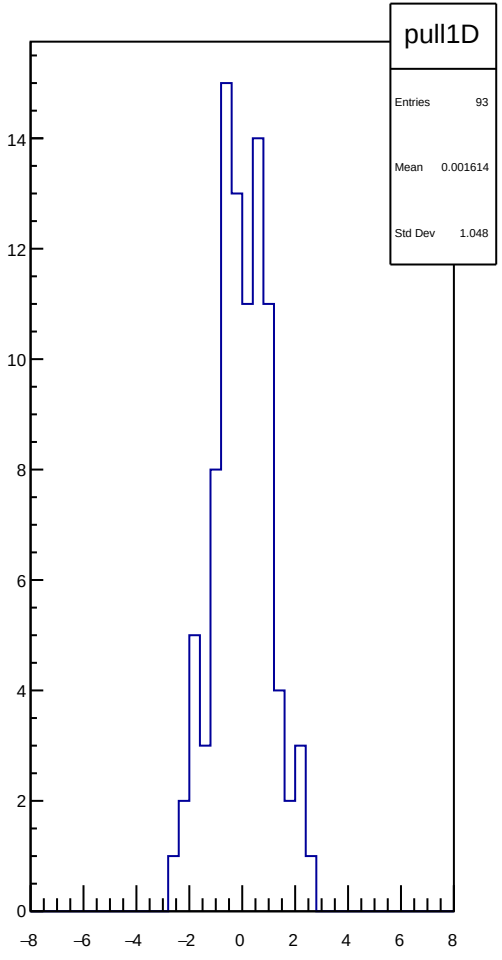

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.22e+04 / 92
p0 47.04 ± 0.03548
65
60
55
50
45
40

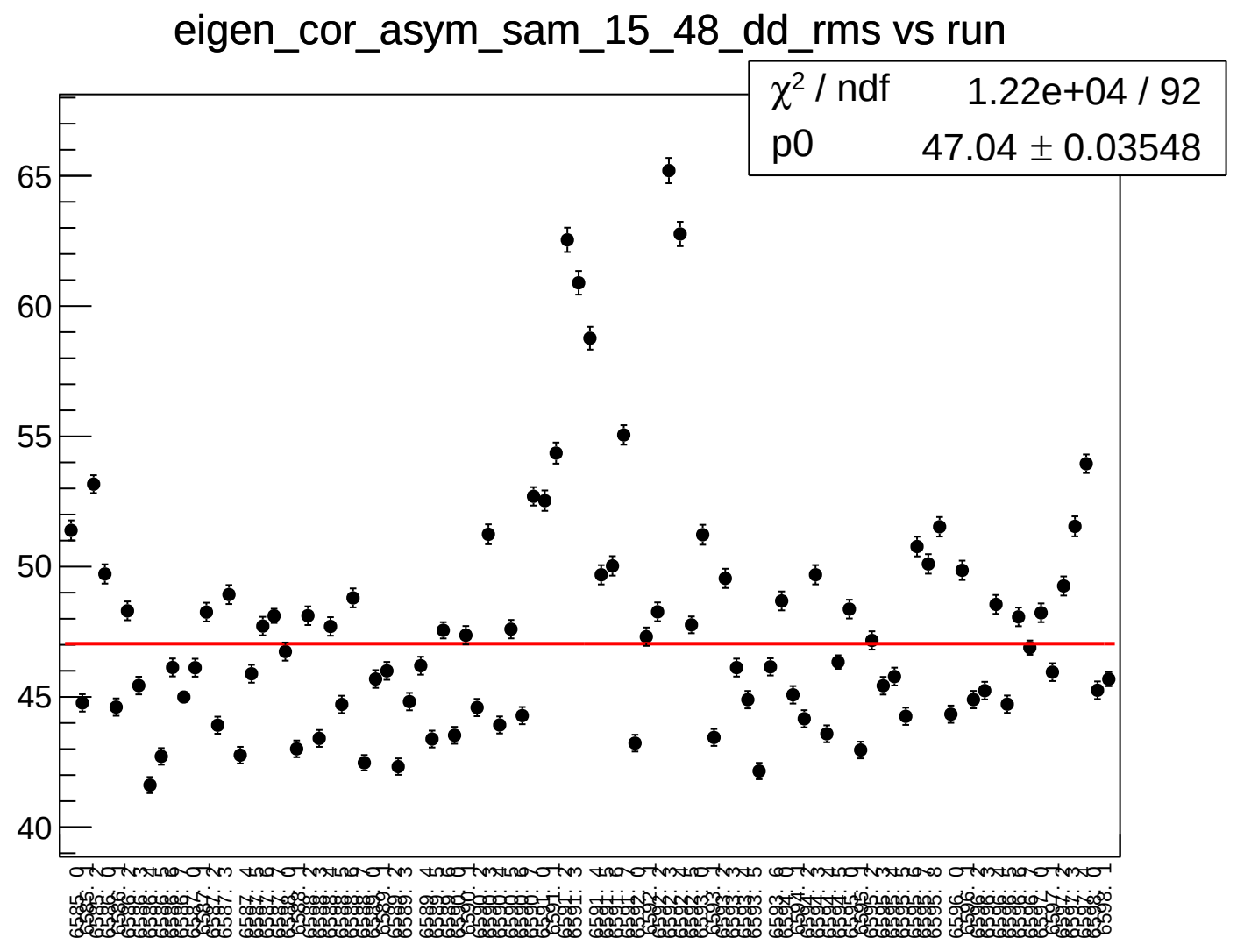

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 119 / 92
p0 −30.53 ± 439
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −38.26
Std Dev 0
2
1
0
−1
−2

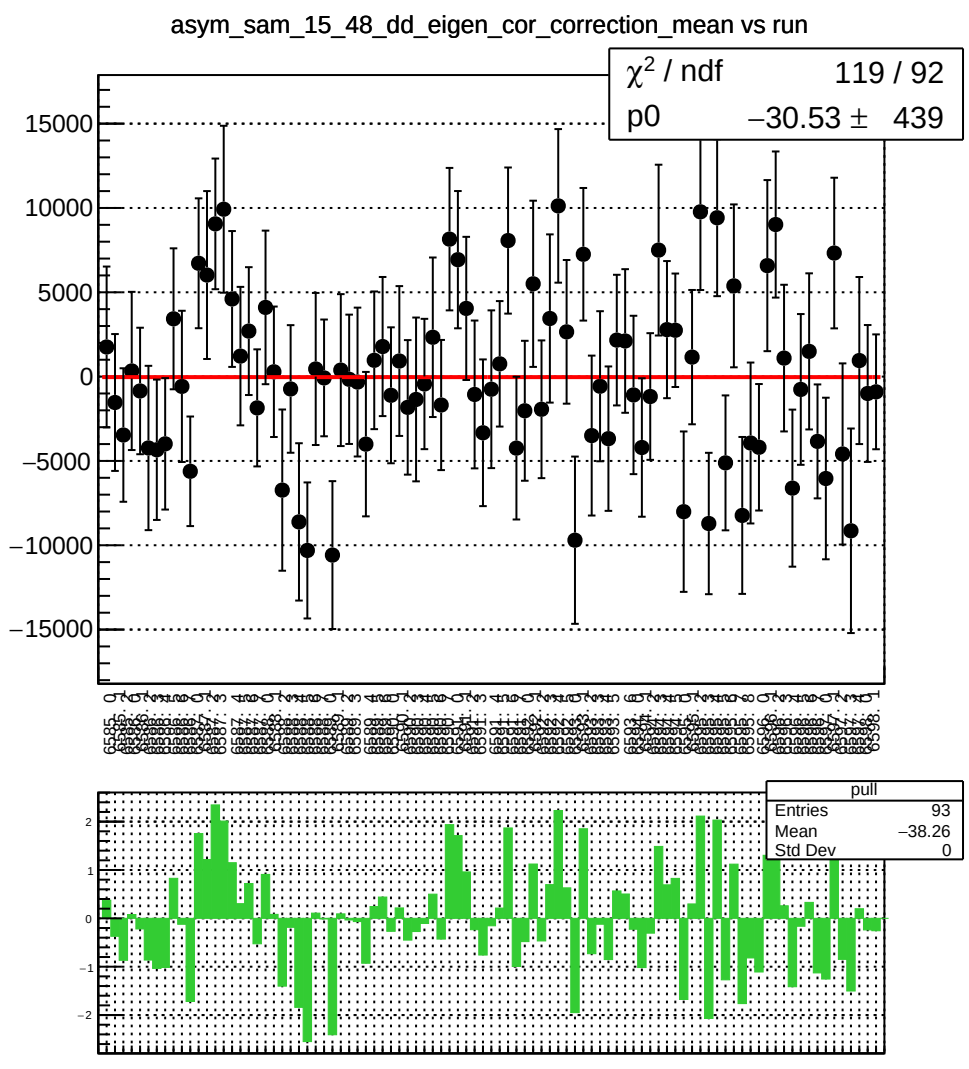

pull1D
Entries 93
Mean 0.006074
Std Dev 1.131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

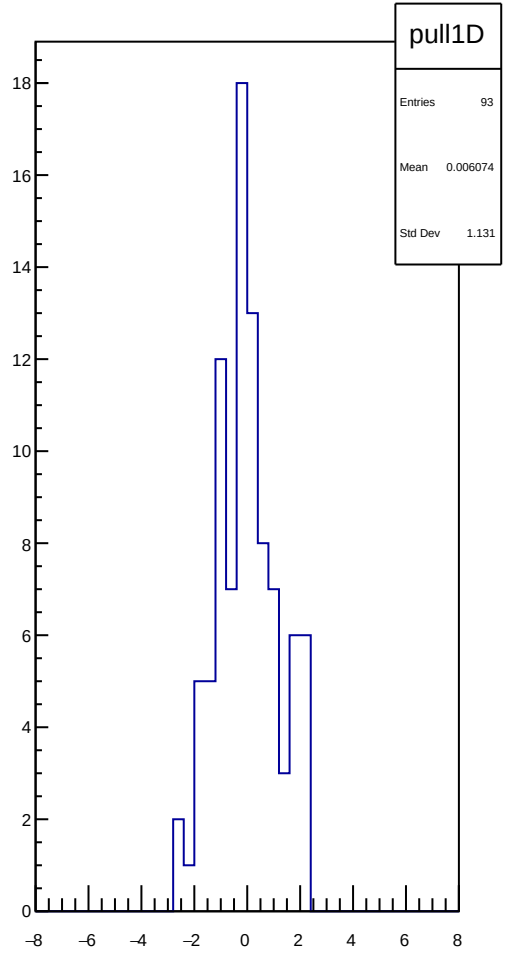

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.582e+04 / 92
p0 411.2 ± 0.3104
600
550
500
450
400
350

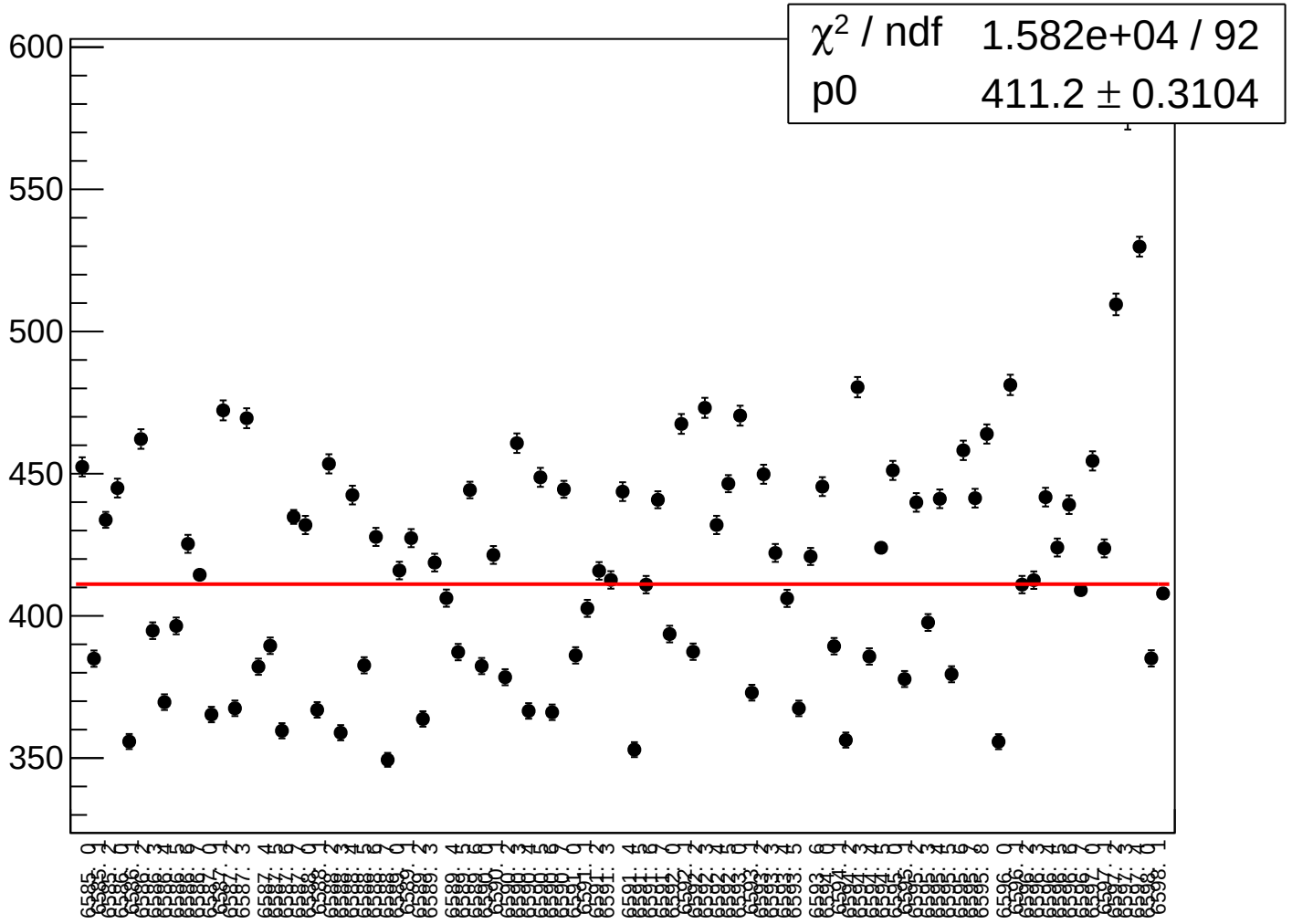

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 102.2 / 92
p0 1.032 ± 50.17
pull
Entries 93
Mean −963.1
Std Dev 0

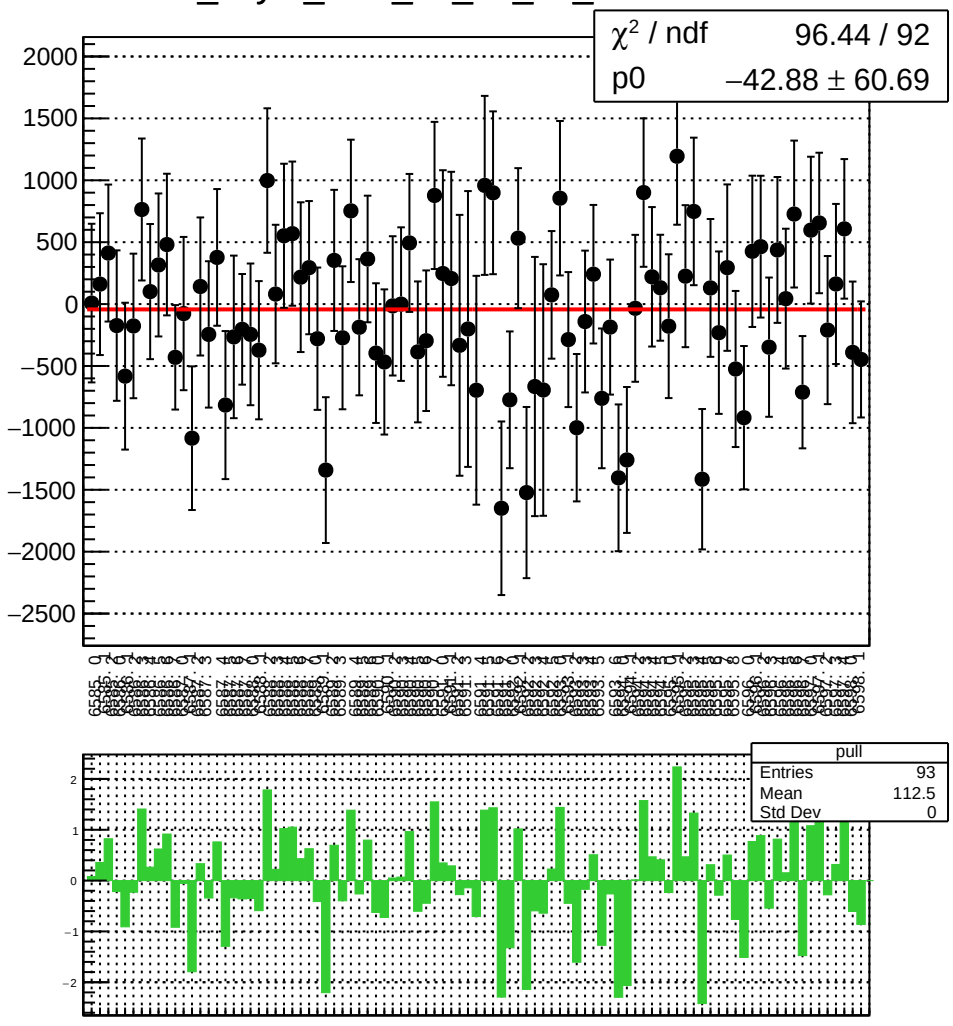

pull1D
Entries 93
Mean 0.001614
Std Dev 1.048

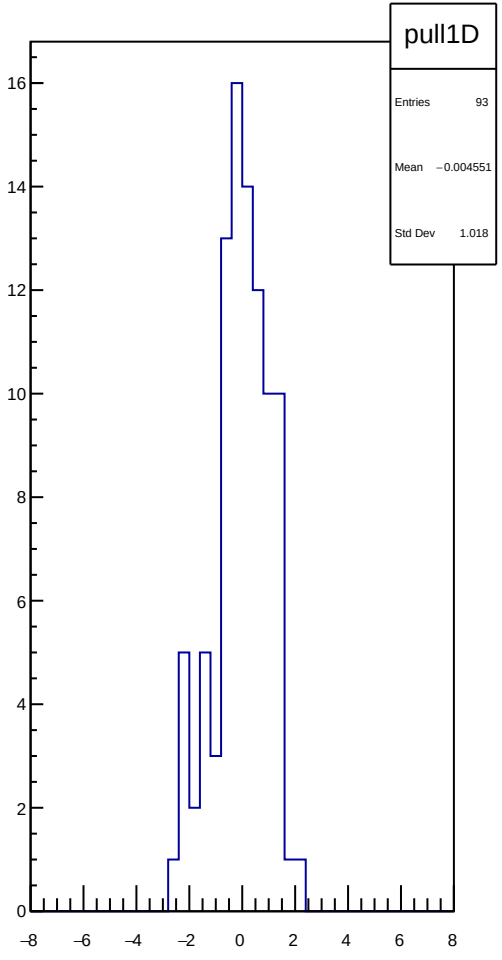

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.22e+04 / 92
p0 47.04 ± 0.03548
65
60
55
50
45
40

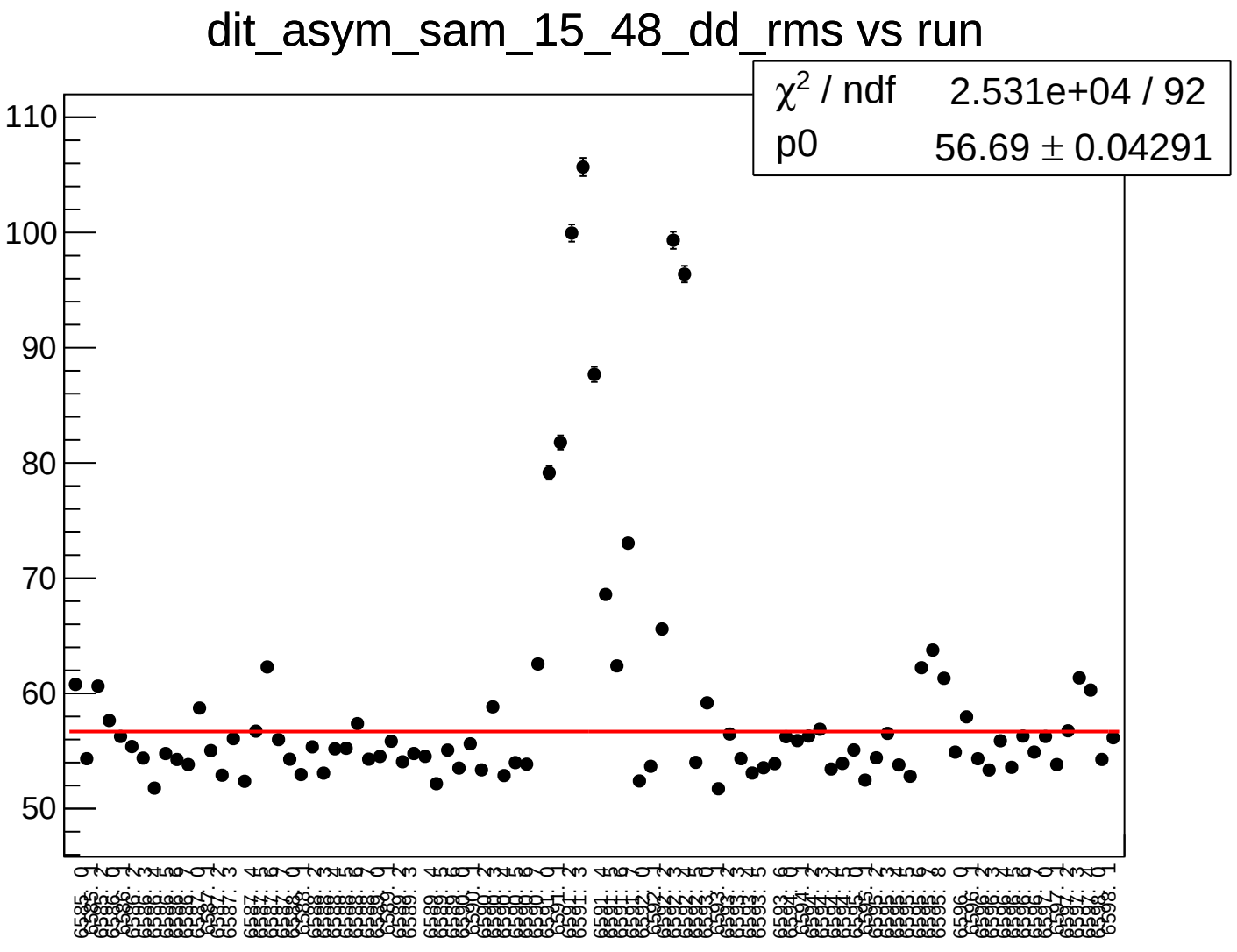

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 119 / 92
p0 −30.53 ± 439
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −38.26
Std Dev 0
2
1
0
−1
−2

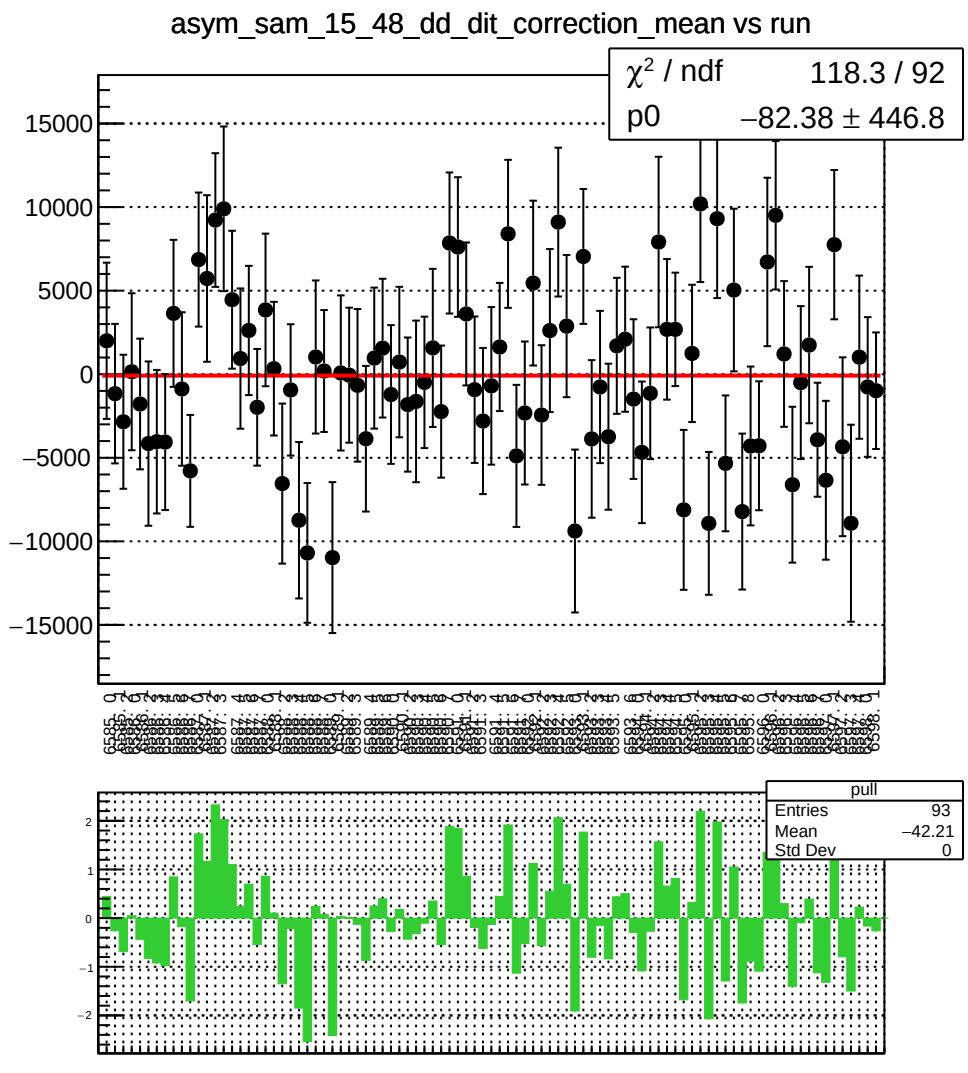

pull1D
Entries 93
Mean 0.006074
Std Dev 1.131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

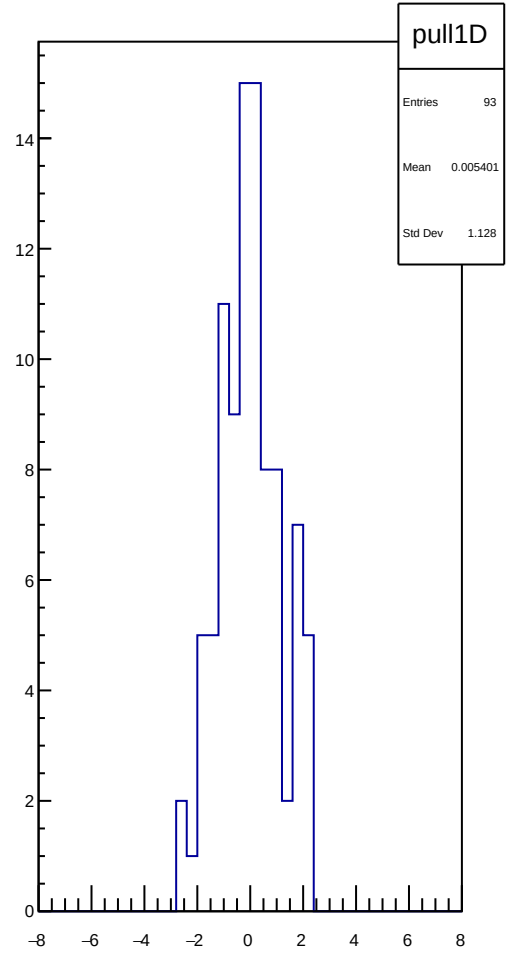

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.582e+04 / 92
p0 411.2 ± 0.3104
600
550
500
450
400
350

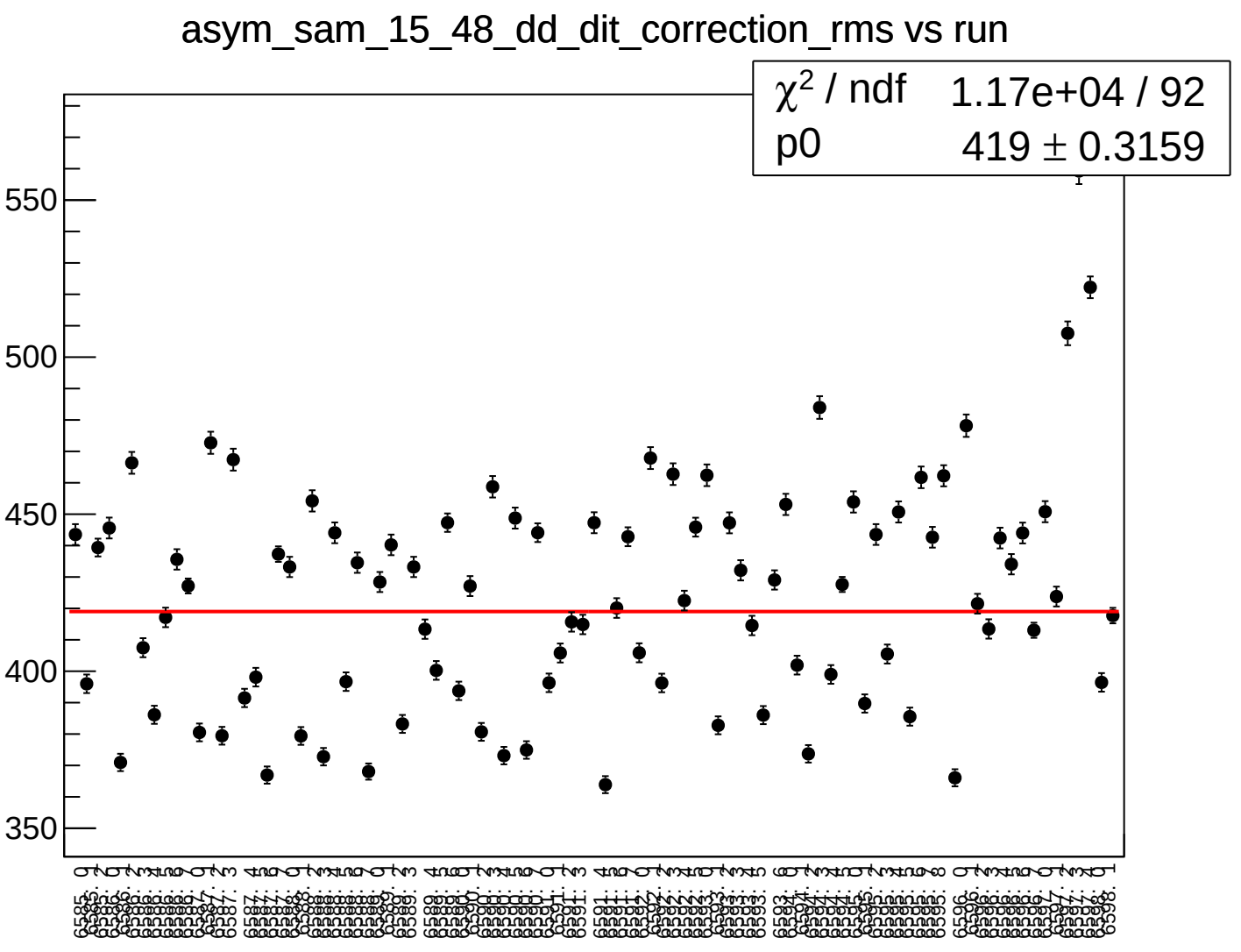

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 96.44 / 92
p0 −42.88 ± 60.69
pull
Entries 93
Mean 112.5
Std Dev 0

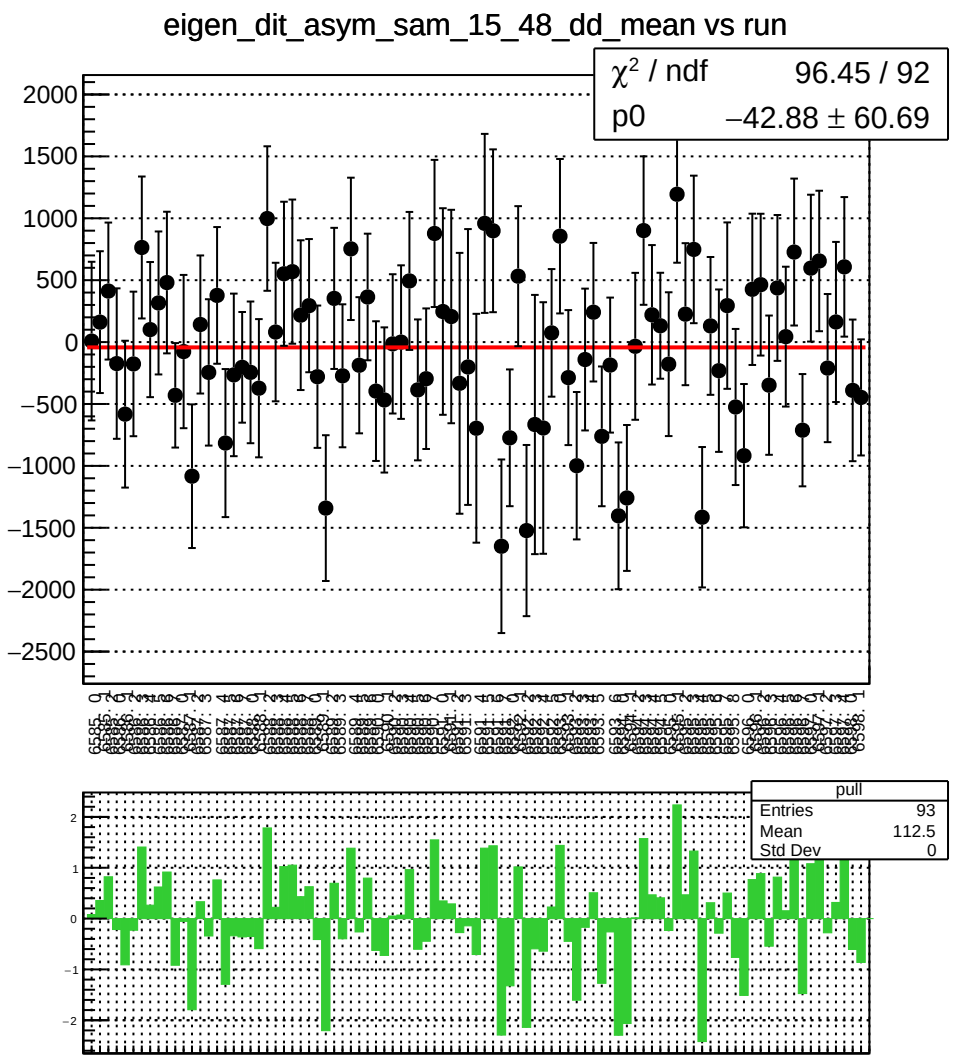

pull1D
Entries 93
Mean −0.004551
Std Dev 1.018

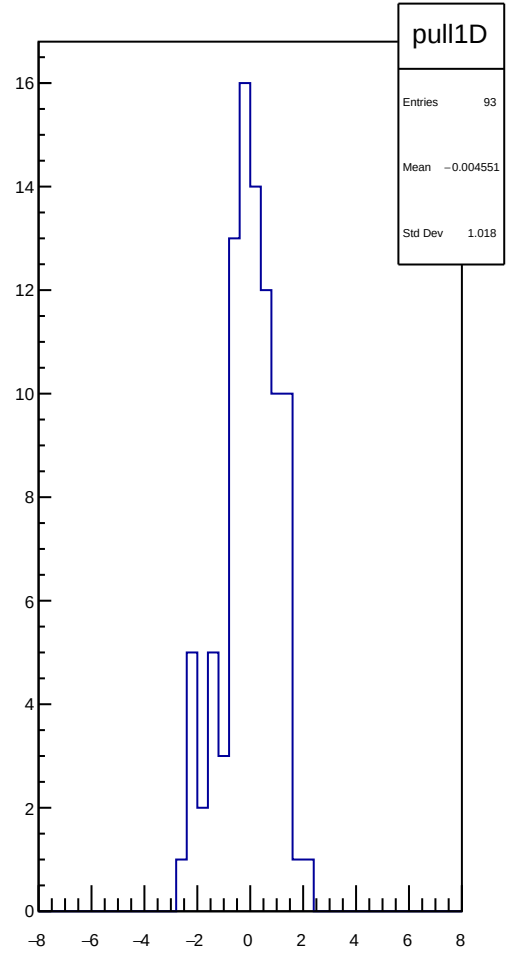

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2.531e+04 / 92
p0 56.69 ± 0.04291
110
100
90
80
70
60
50

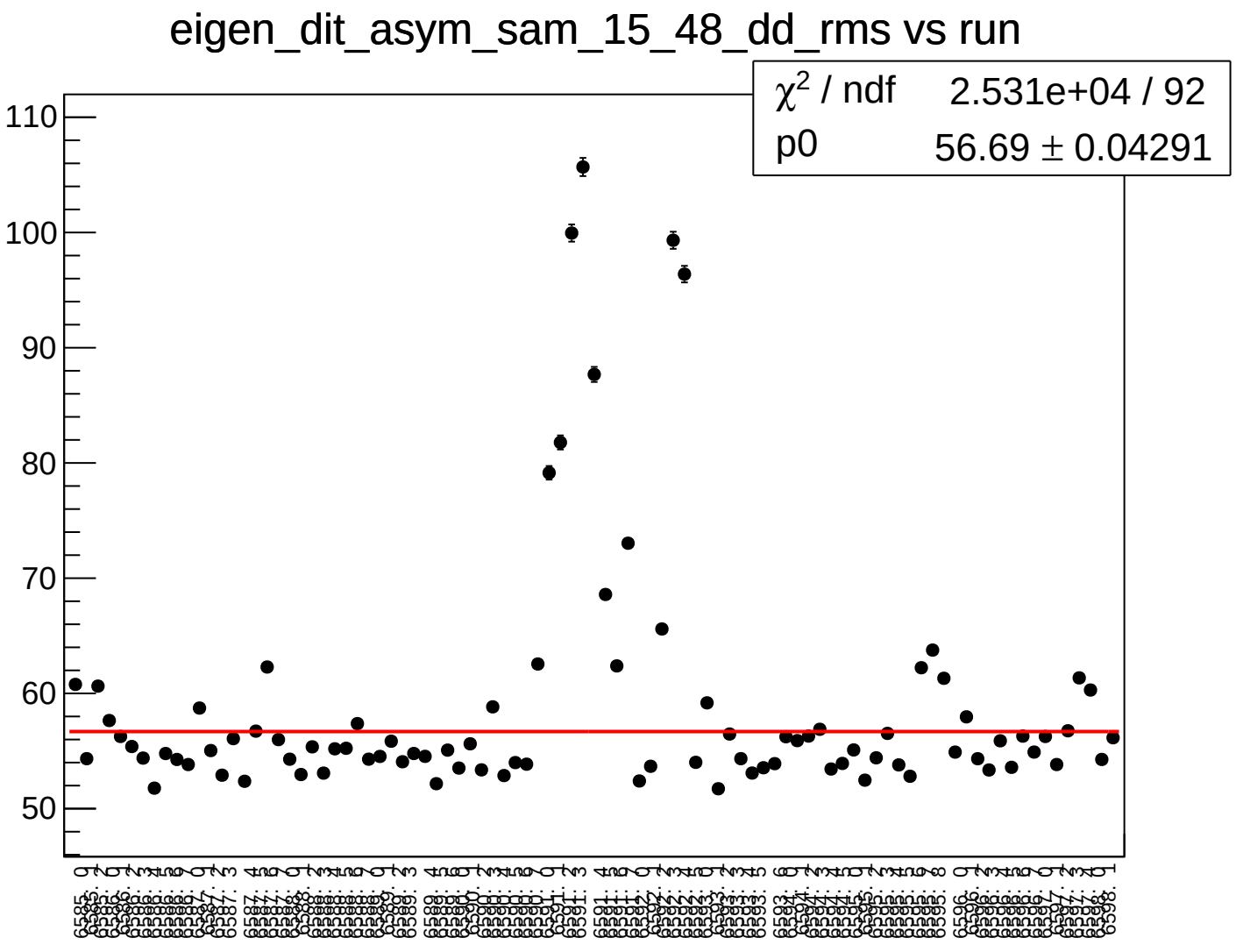

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 118.3 / 92
p0 −82.38 ± 446.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −42.21
Std Dev 0
2
1
0
−1
−2

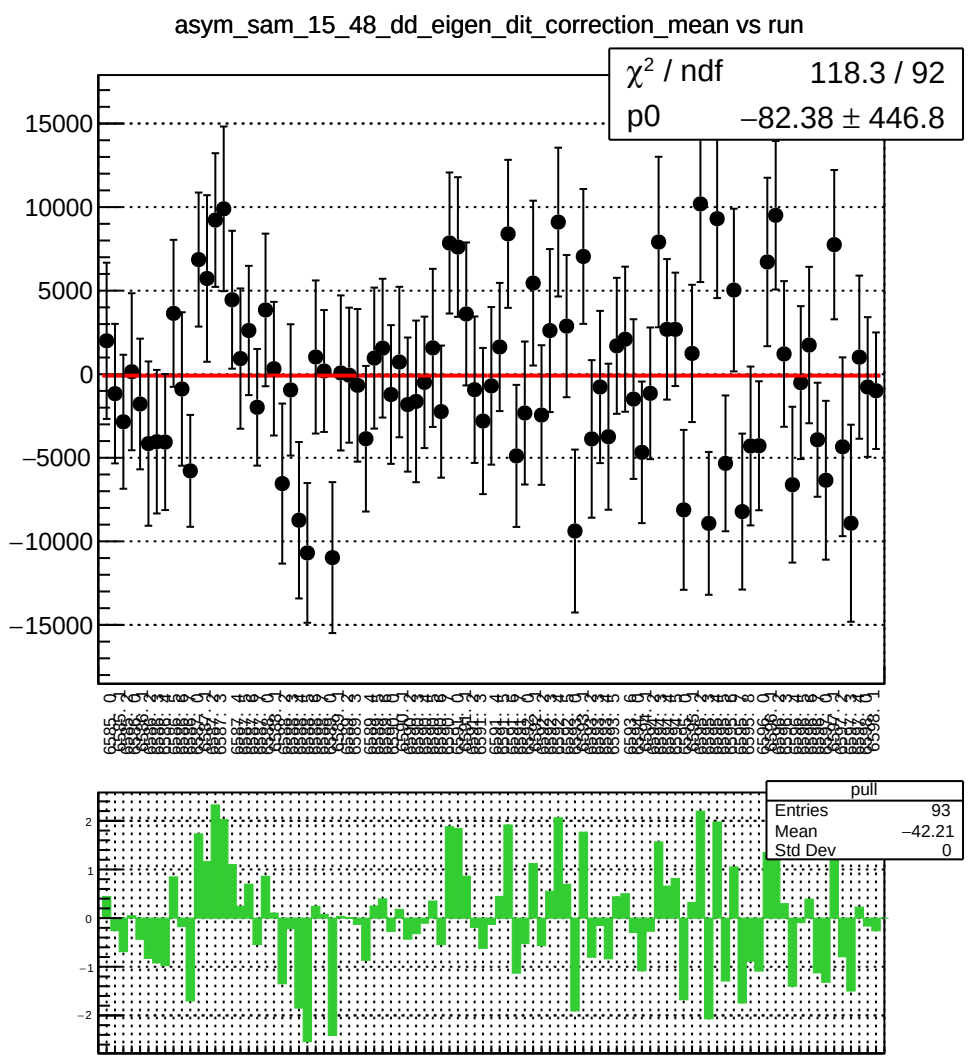

pull1D
Entries 93
Mean 0.005401
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

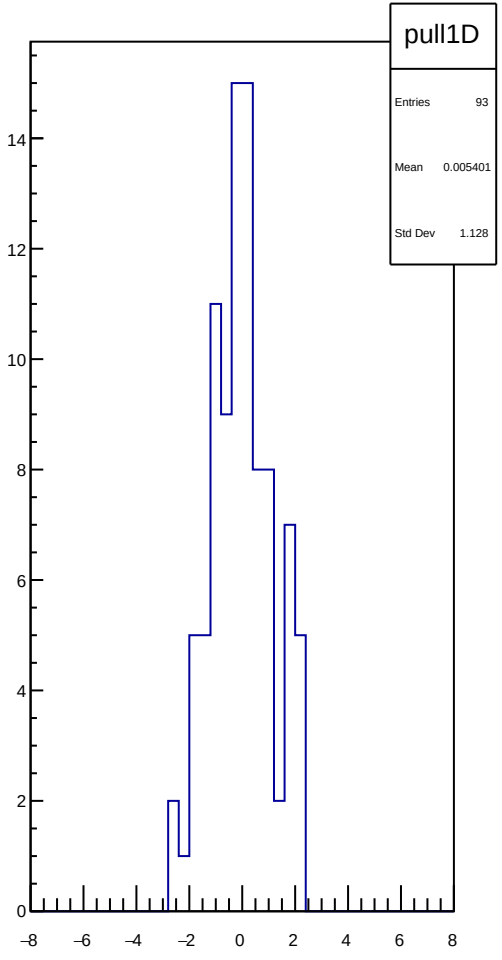

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.17e+04 / 92
p0 419 ± 0.3159
550
500
450
400
350

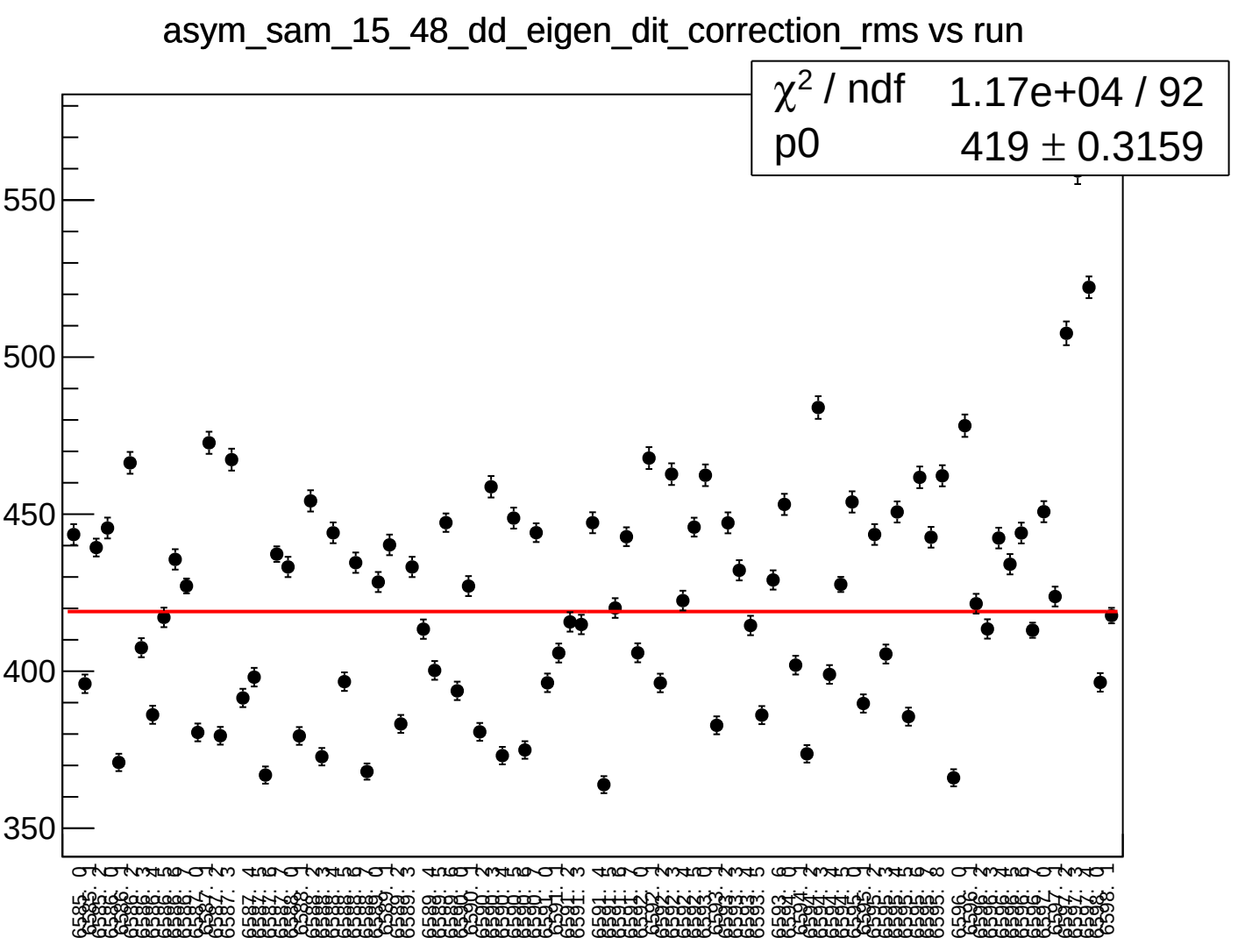

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 96.45 / 92
p0 −42.88 ± 60.69
pull
Entries 93
Mean 112.5
Std Dev 0

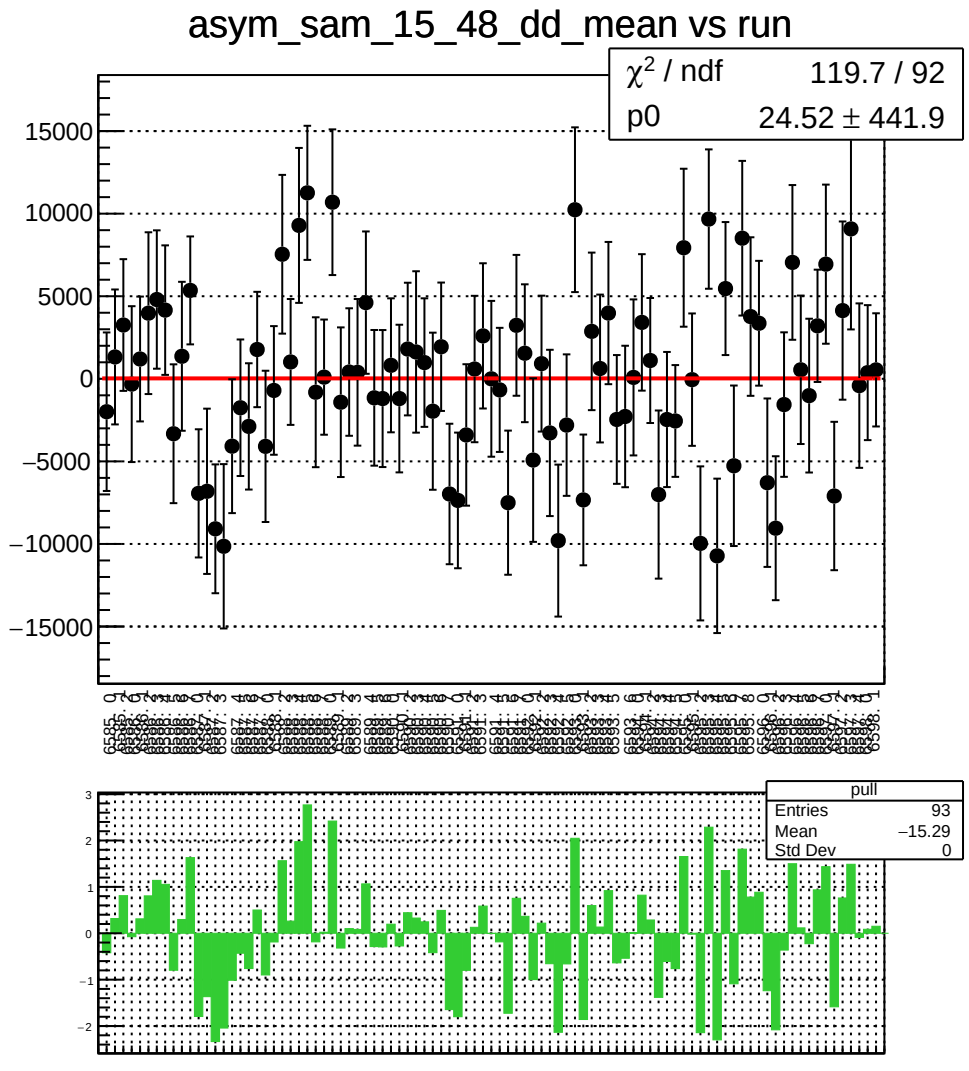

pull1D
Entries 93
Mean −0.004551
Std Dev 1.018

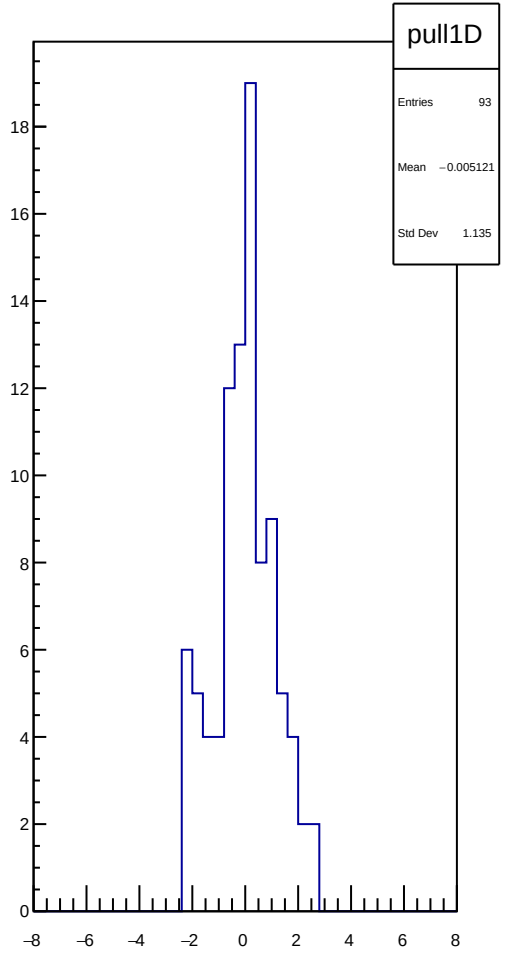

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.531e+04 / 92
p0 56.69 ± 0.04291
110
100
90
80
70
60
50

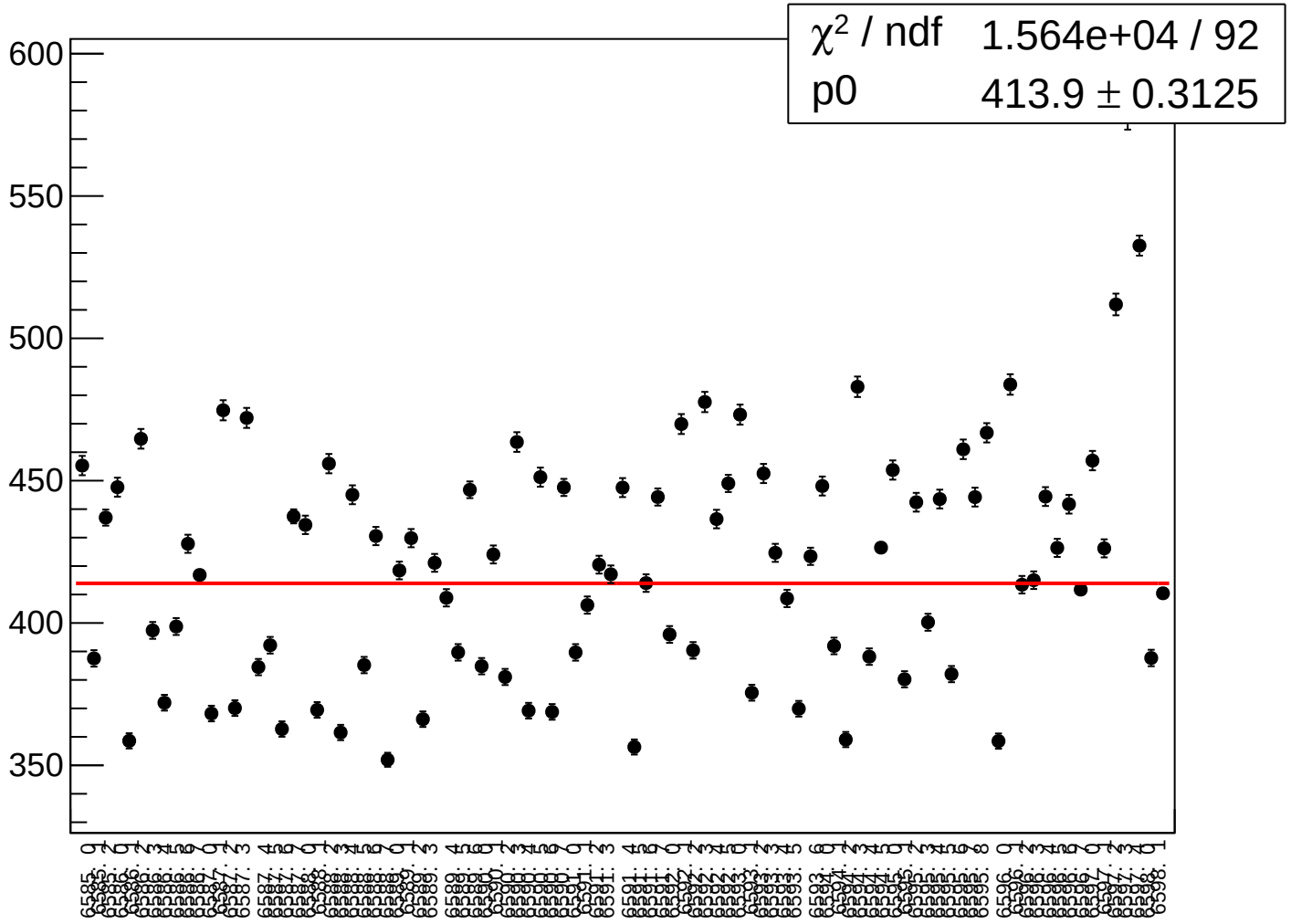

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 118.3 / 92
p0 −82.38 ± 446.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −42.21
Std Dev 0
2
1
0
−1
−2

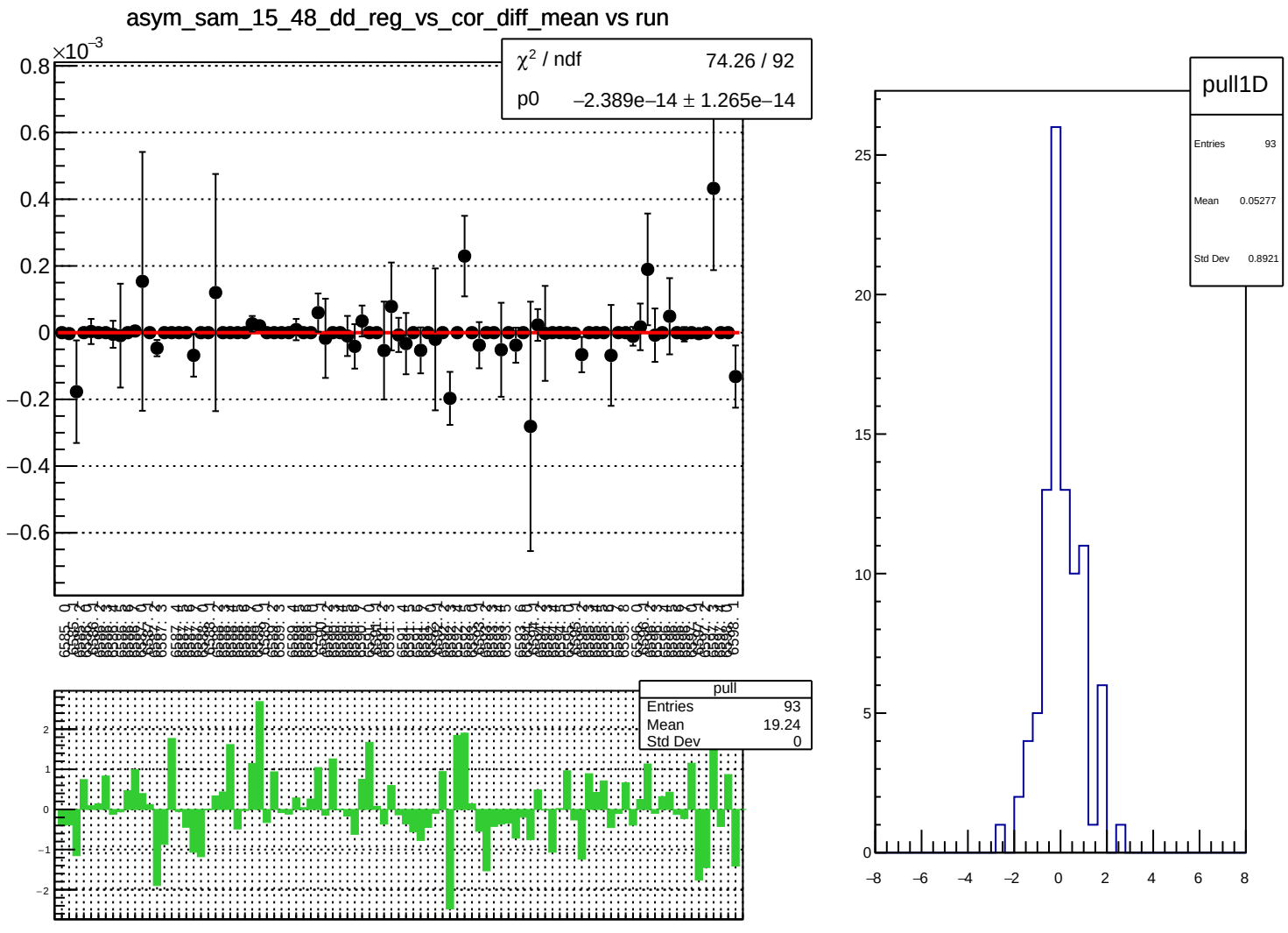

pull1D
Entries 93
Mean 0.005401
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

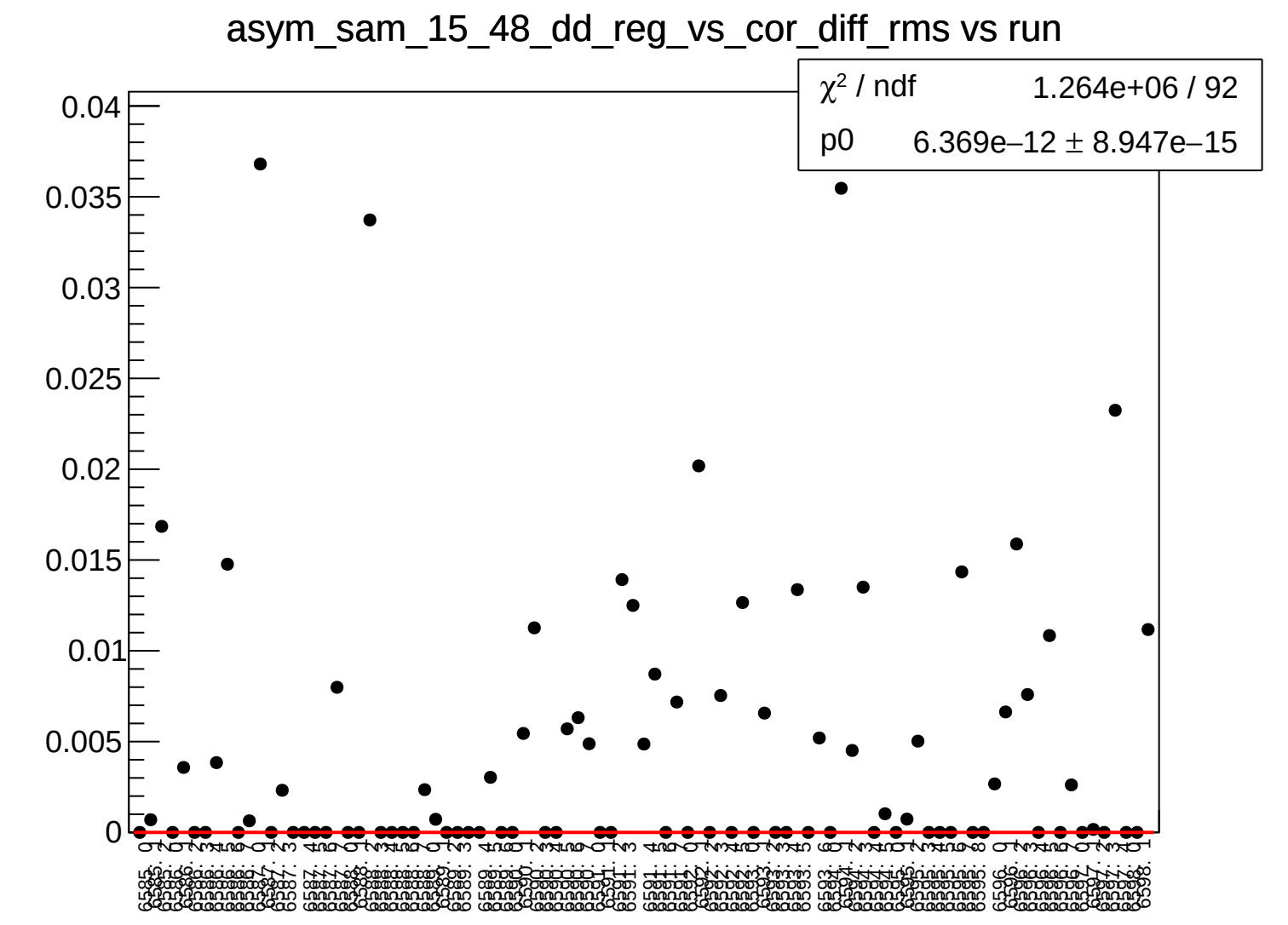

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.17e+04 / 92
p0 419 ± 0.3159
550
500
450
400
350

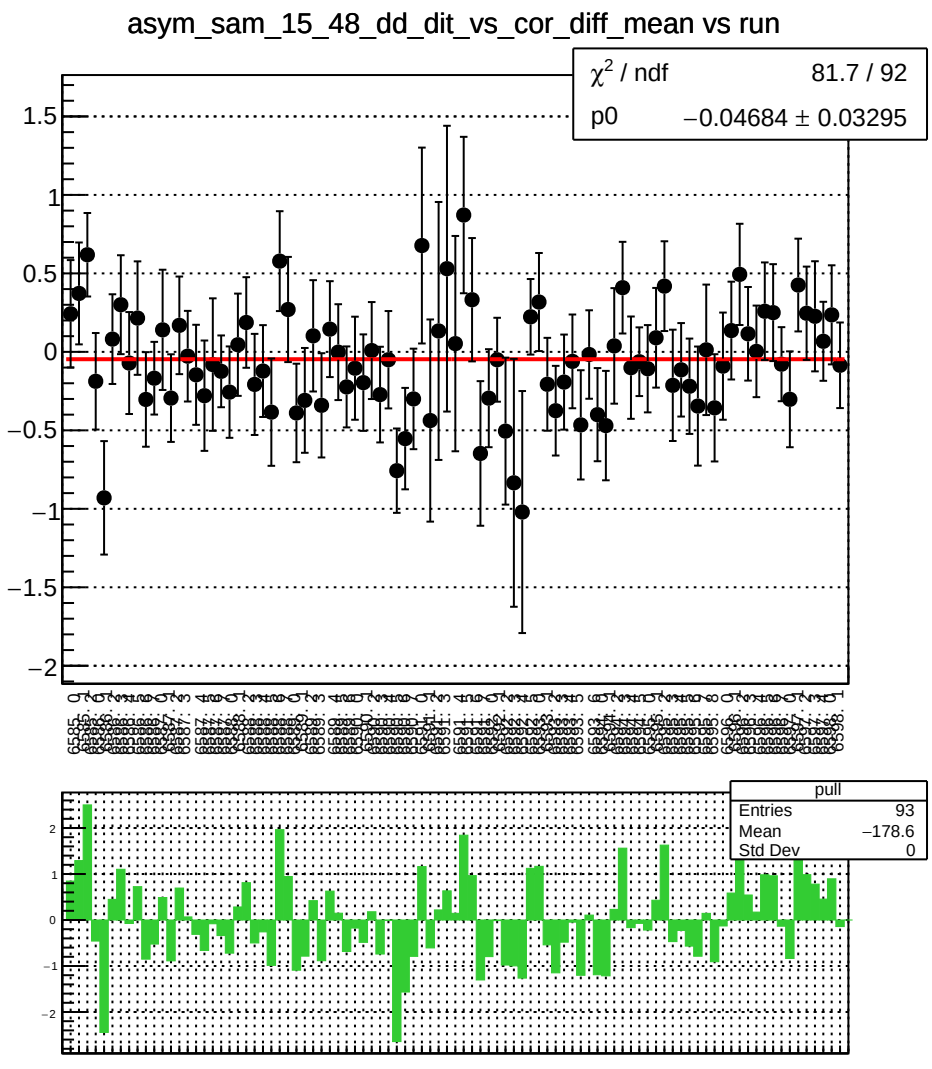

asym_sam_15_48_dd_mean vs run
χ² / ndf 119.7 / 92
p0 24.52 ± 441.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −15.29
Std Dev 0
3
2
1
0
−1
−2

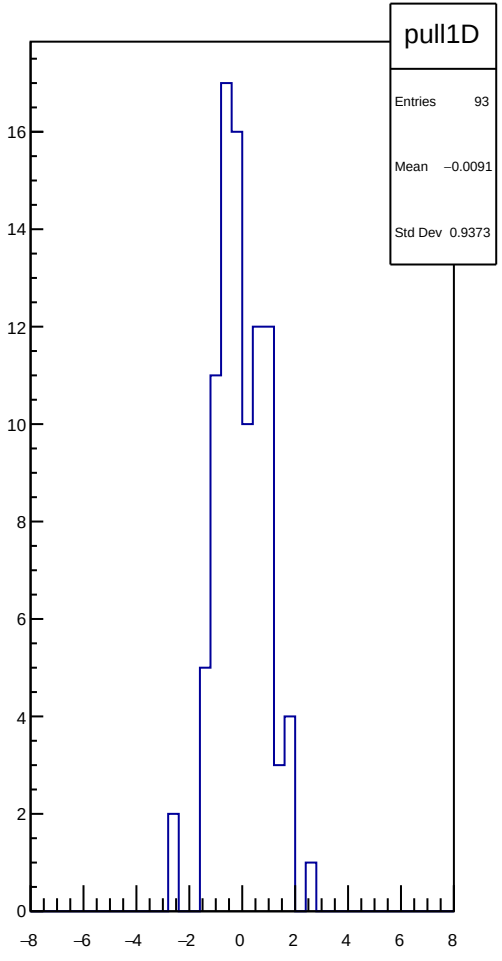

pull1D
Entries 93
Mean −0.005121
Std Dev 1.135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

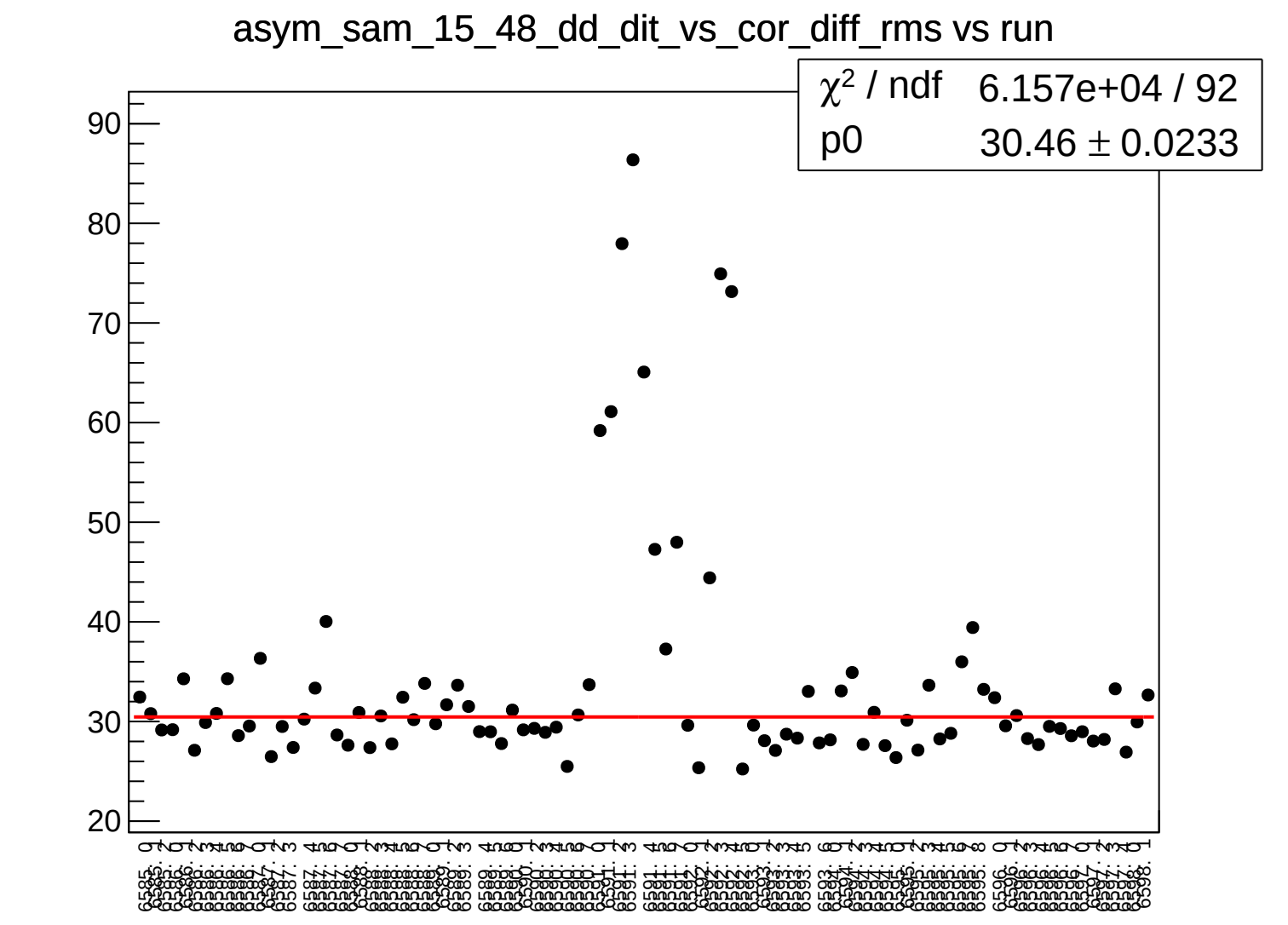

asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.564e+04 / 92
p0 413.9 ± 0.3125
600
550
500
450
400
350

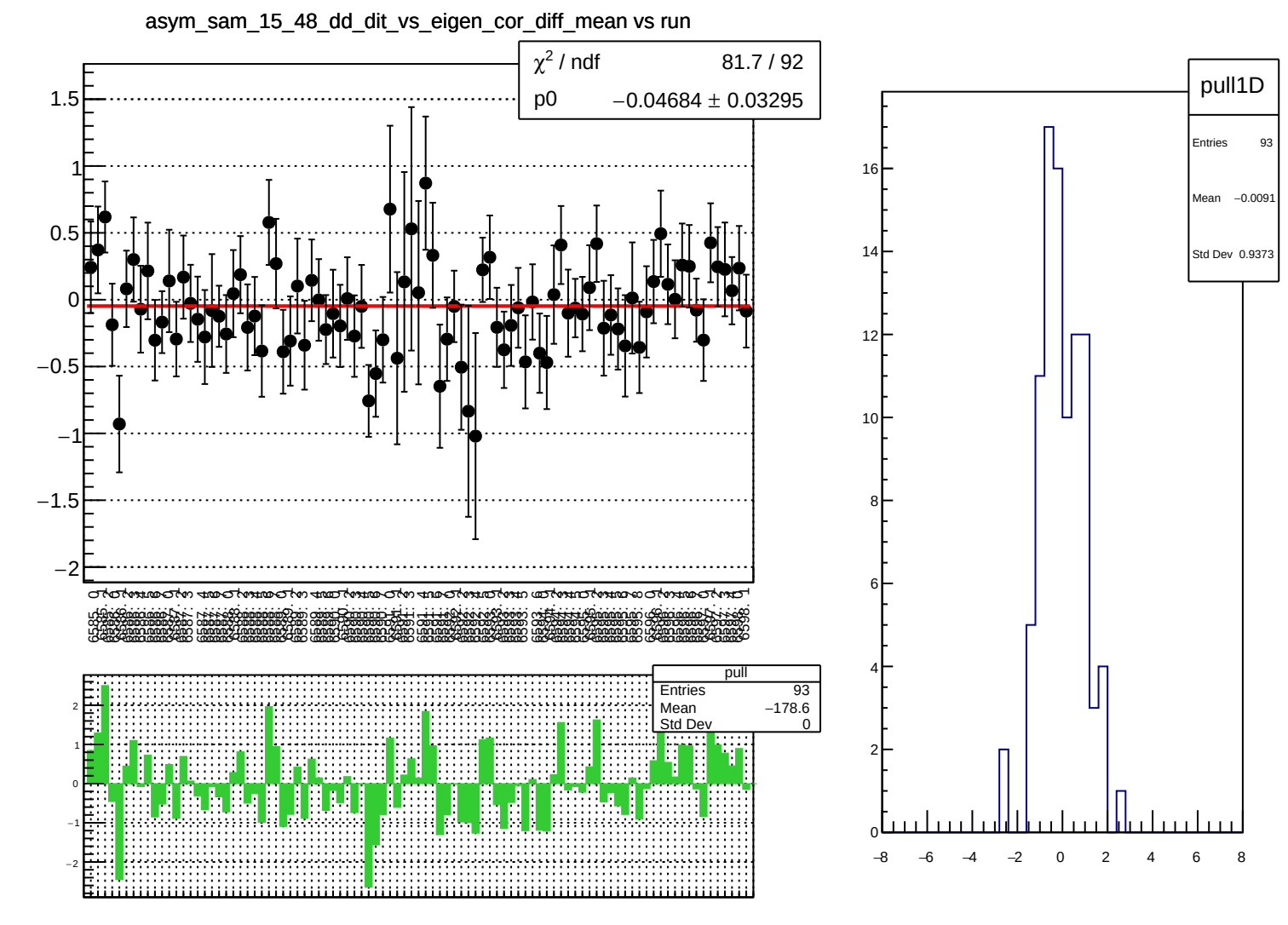

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 74.26 / 92
p0 −2.389e−14 ± 1.265e−14
pull
Entries 93
Mean 19.24
Std Dev 0
pull1D
Entries 93
Mean 0.05277
Std Dev 0.8921

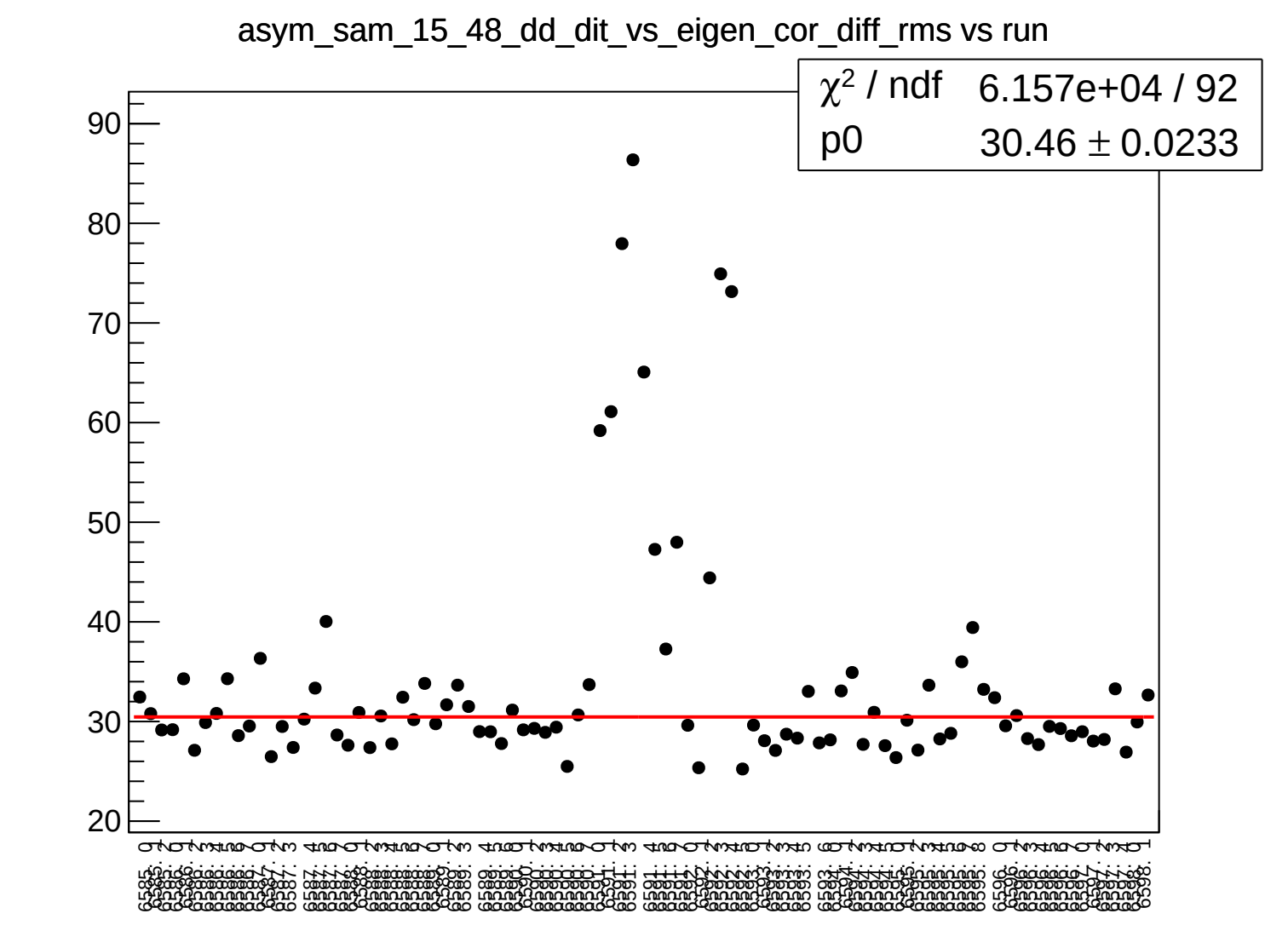

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.264e+06 / 92
p0 6.369e−12 ± 8.947e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

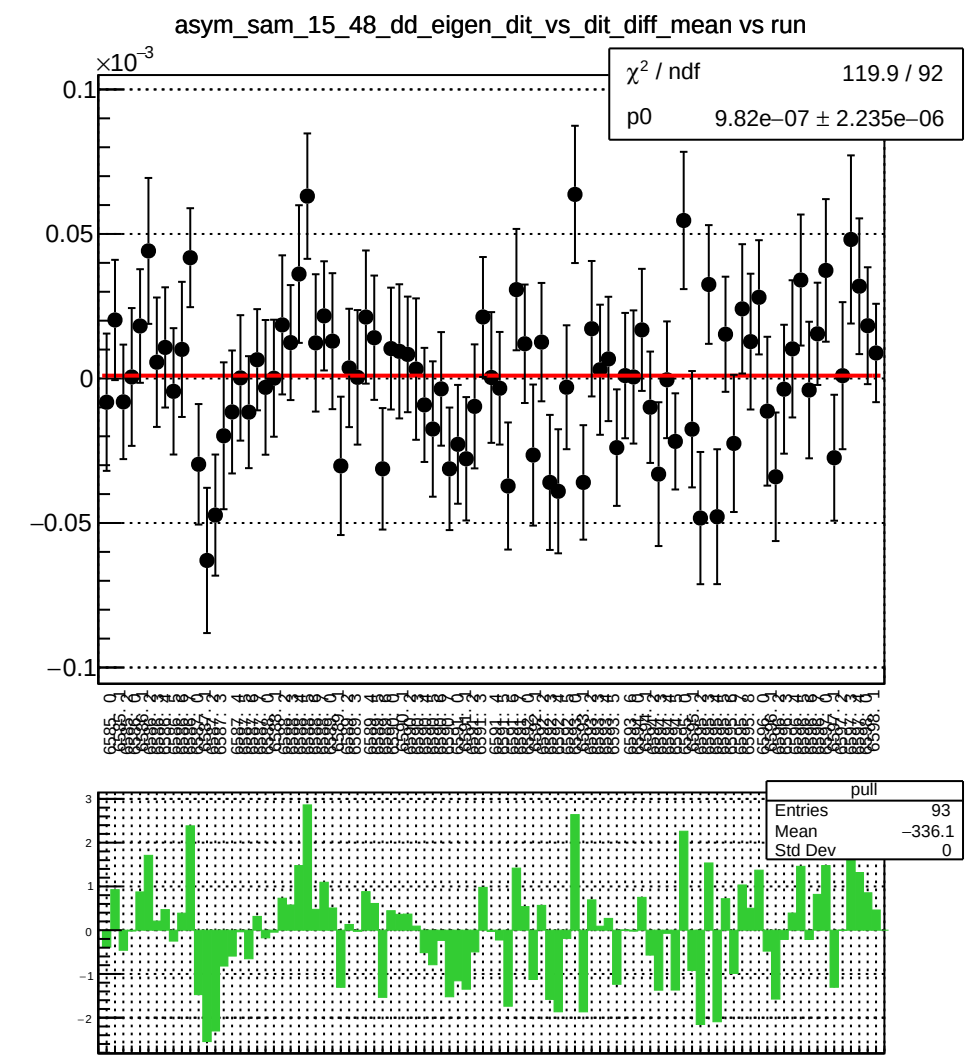

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.7 / 92
p0 −0.04684 ± 0.03295
pull
Entries 93
Mean −178.6
Std Dev 0

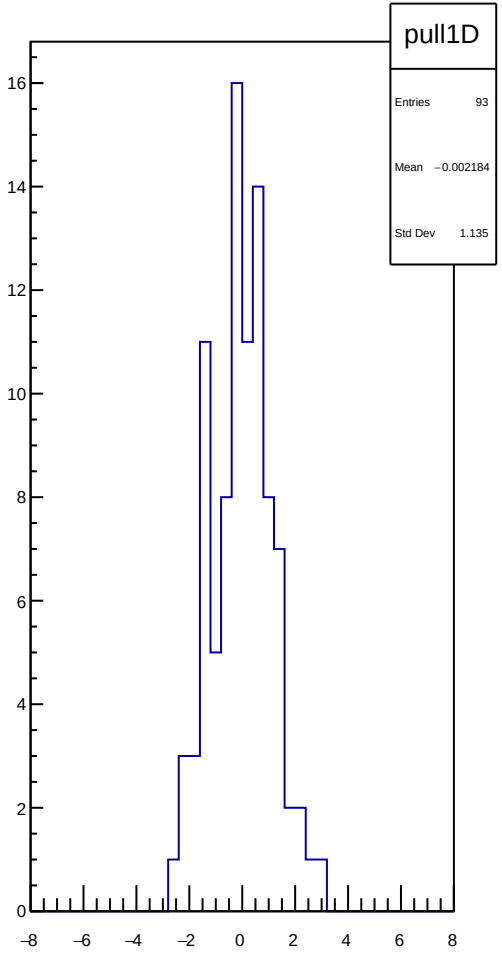

pull1D
Entries 93
Mean −0.0091
Std Dev 0.9373

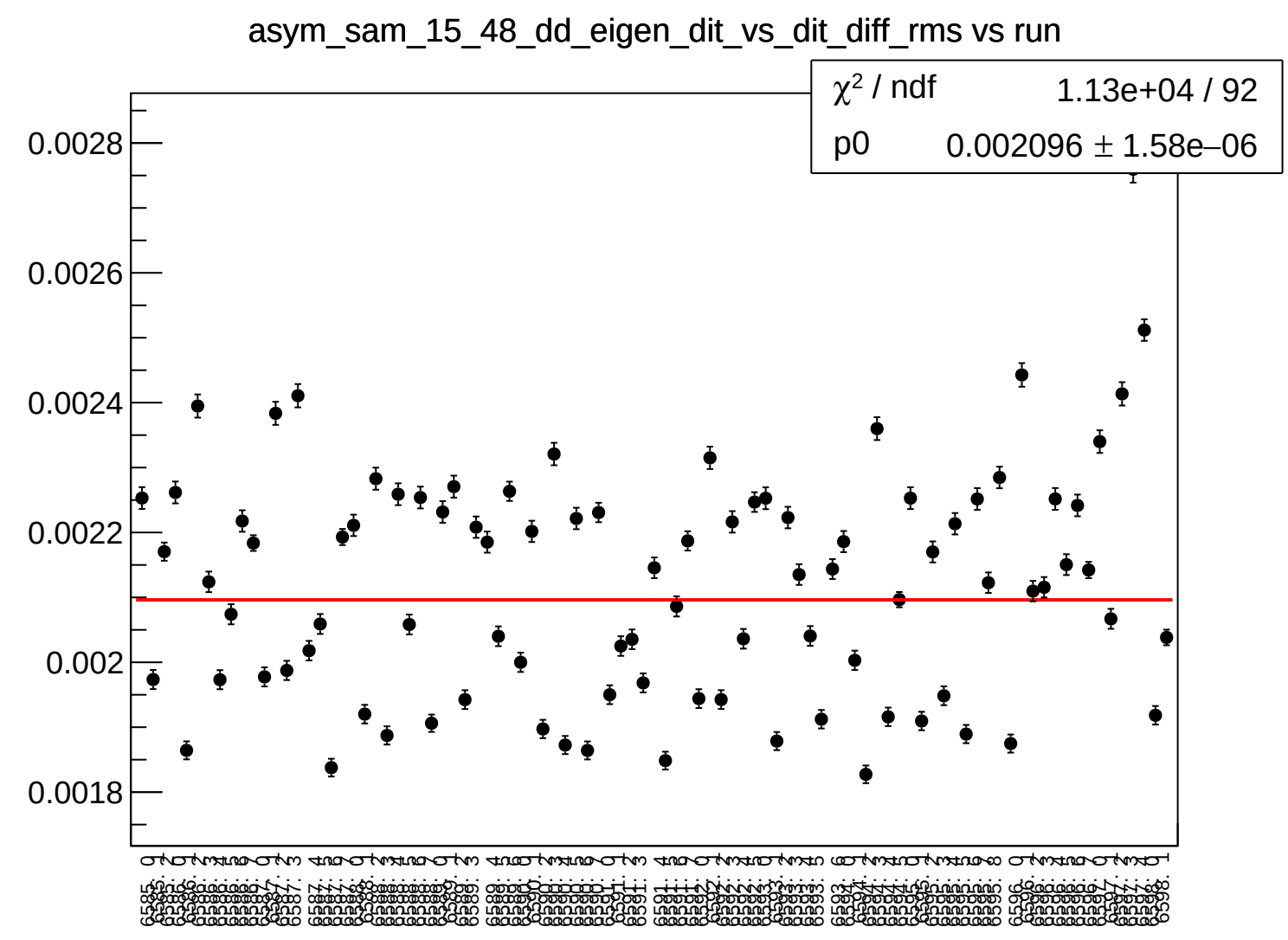

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.157e+04 / 92
p0 30.46 ± 0.0233
90
80
70
60
50
40
30
20

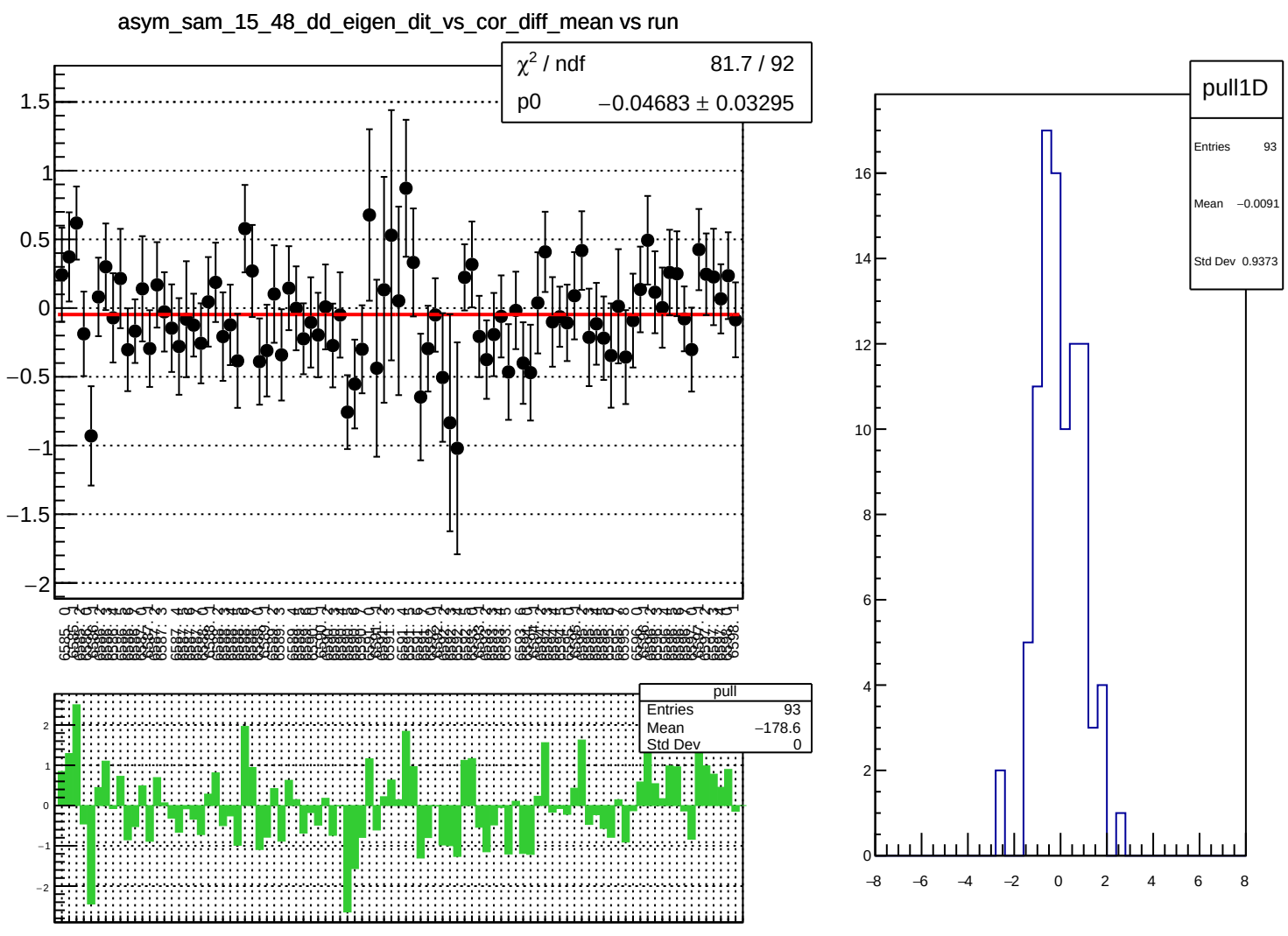

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.7 / 92
p0 −0.04684 ± 0.03295
pull
Entries 93
Mean −178.6
Std Dev 0
pull1D
Entries 93
Mean −0.0091
Std Dev 0.9373

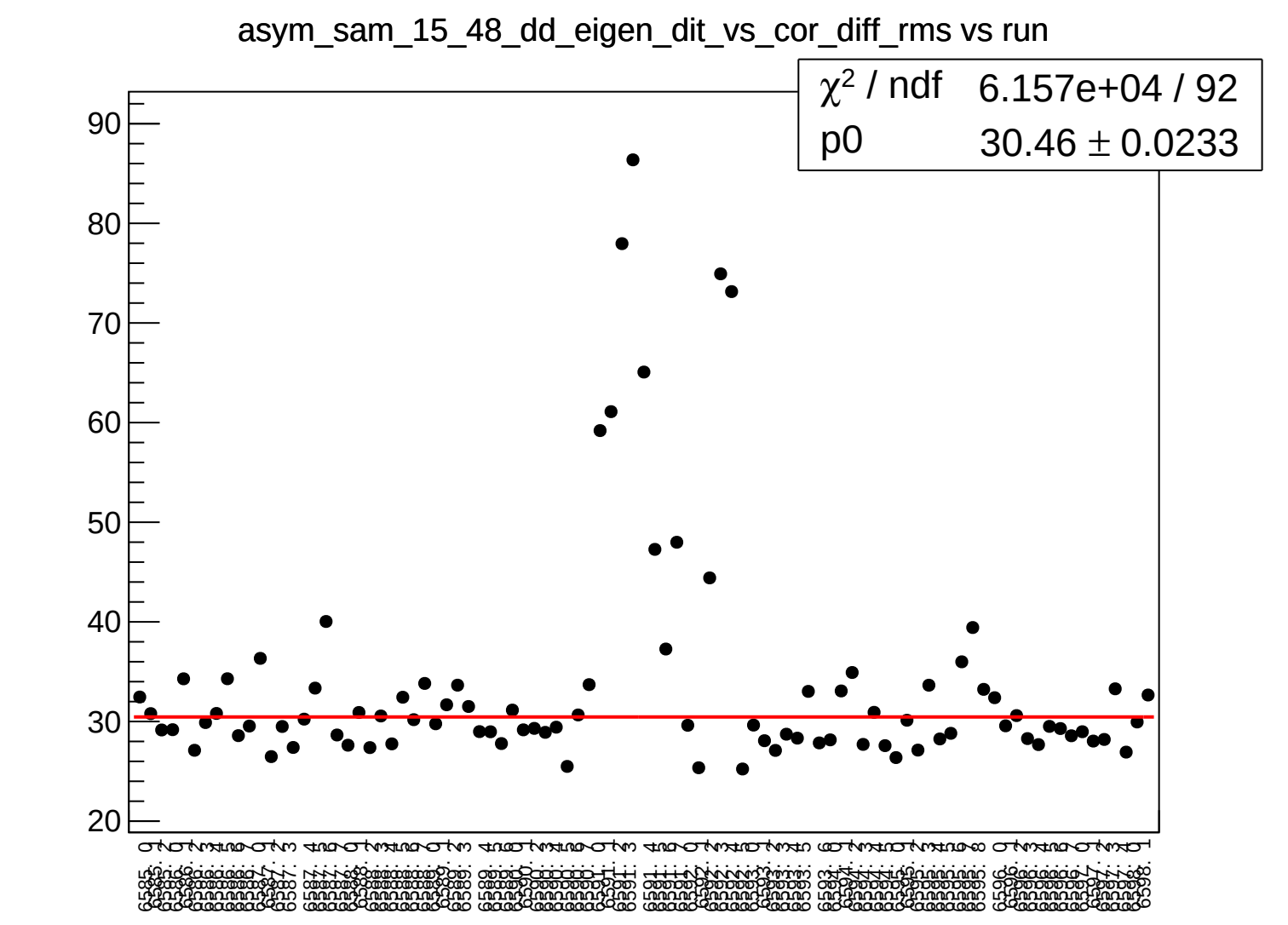

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.157e+04 / 92
p0 30.46 ± 0.0233
90
80
70
60
50
40
30
20

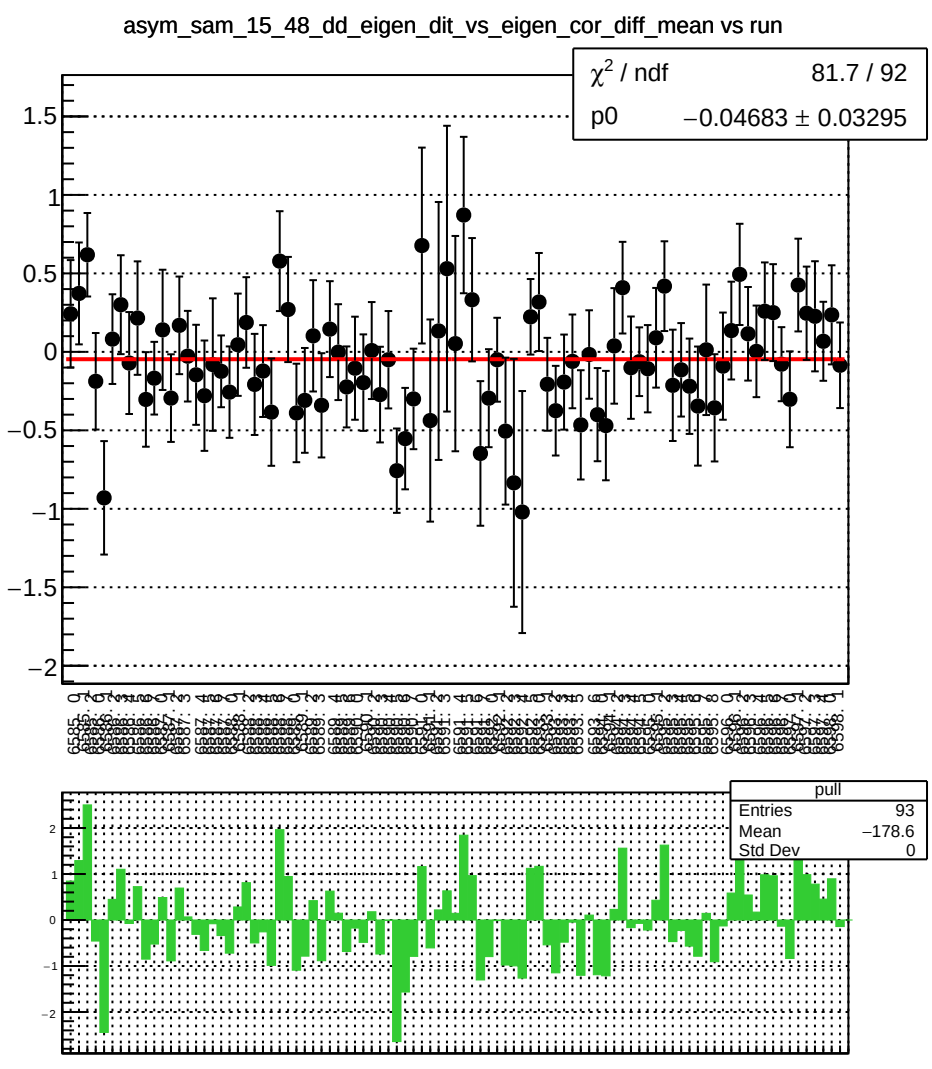

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 119.9 / 92
p0 9.82e−07 ± 2.235e−06
pull
Entries 93
Mean −336.1
Std Dev 0

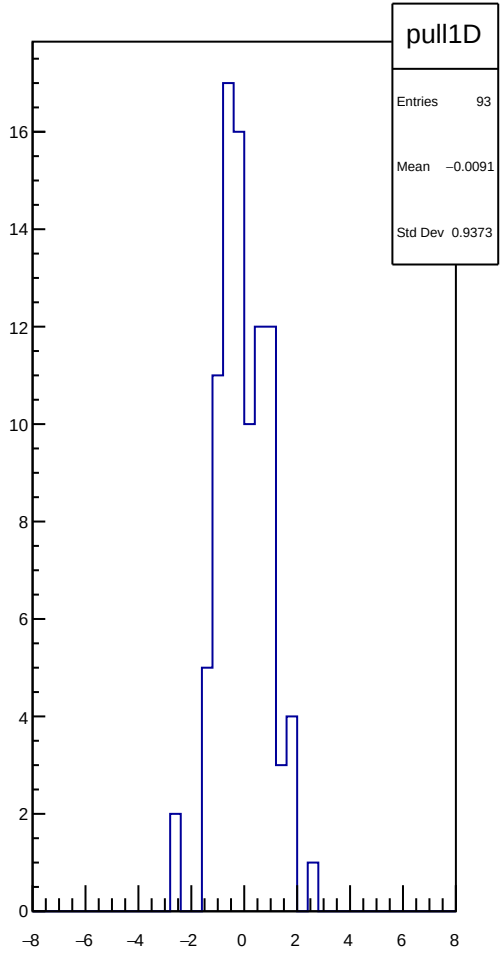

pull1D
Entries 93
Mean −0.002184
Std Dev 1.135

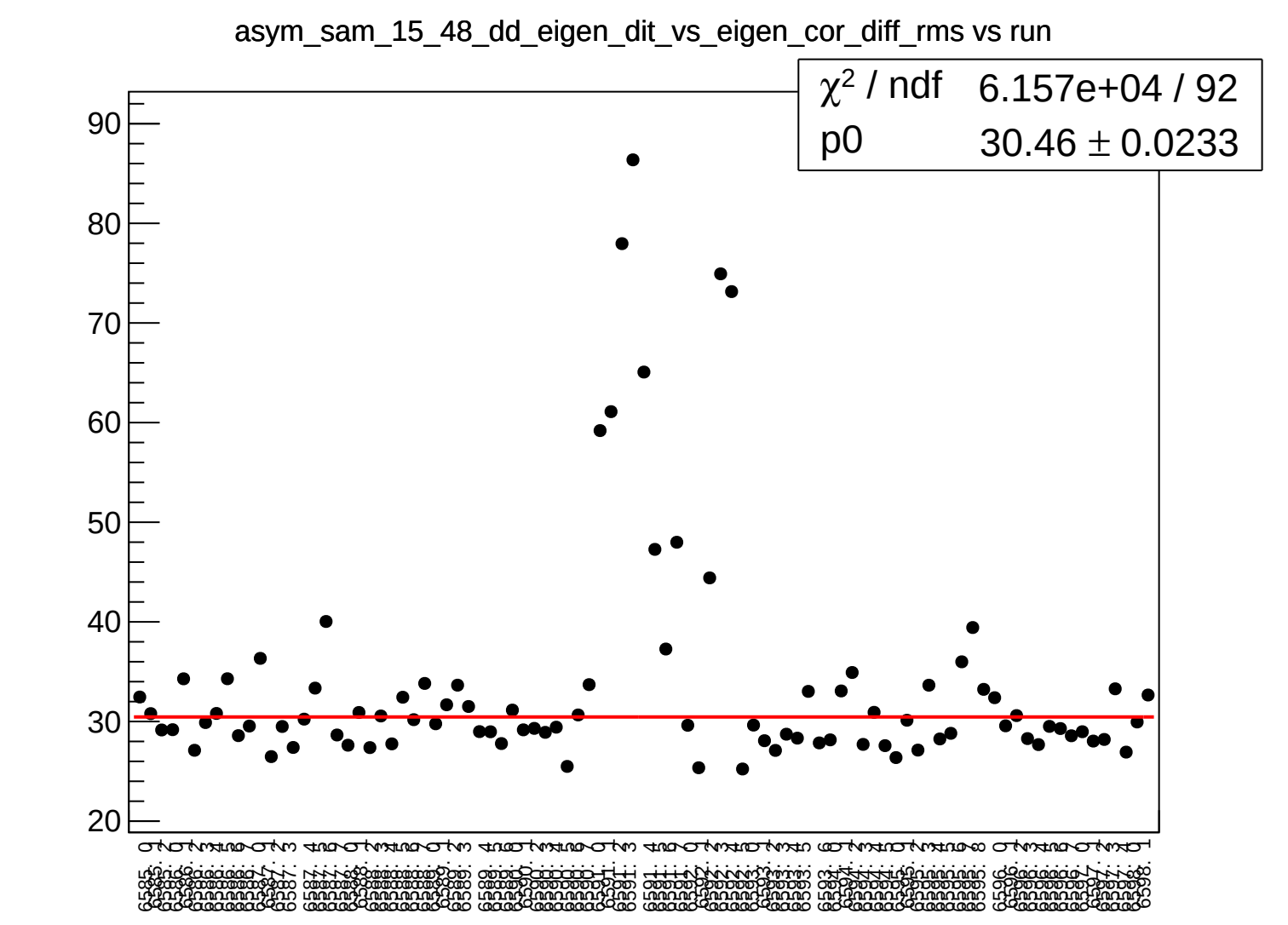

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.13e+04 / 92
p0 0.002096 ± 1.58e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

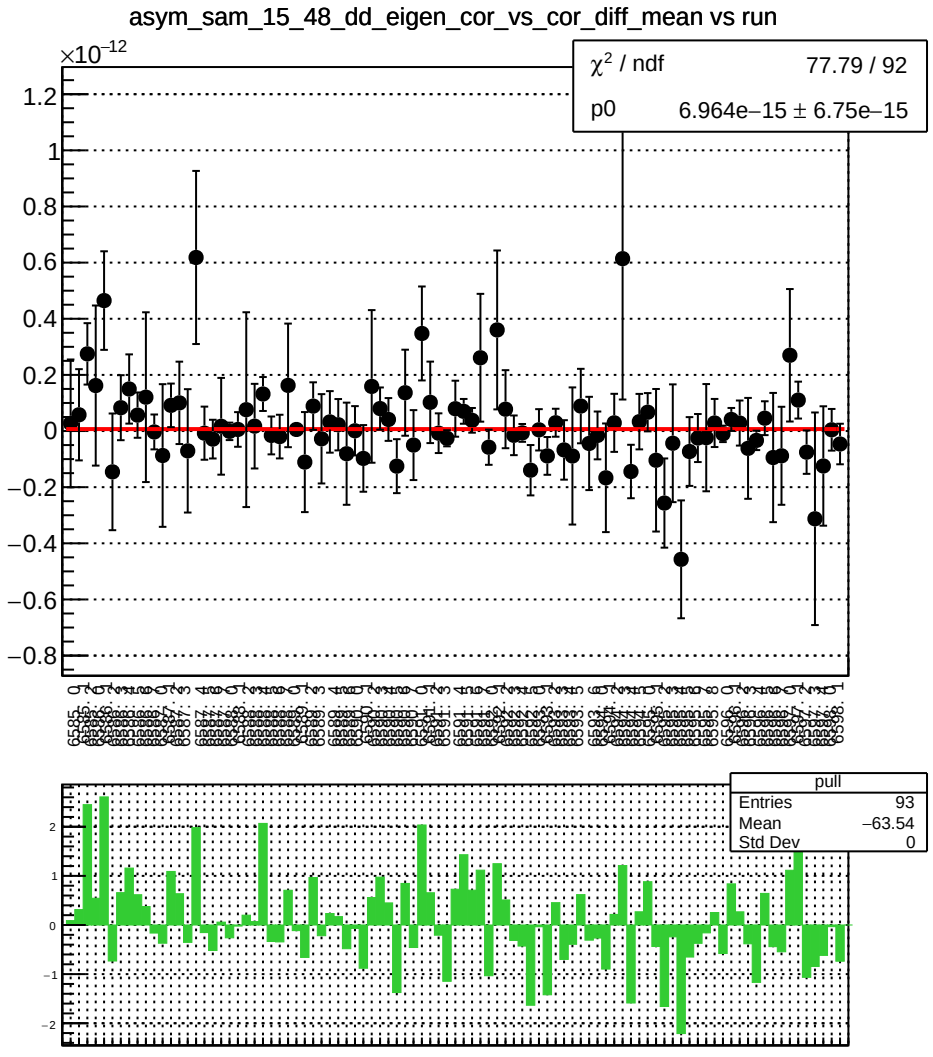

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.7 / 92
p0 −0.04683 ± 0.03295
pull
Entries 93
Mean −178.6
Std Dev 0
pull1D
Entries 93
Mean −0.0091
Std Dev 0.9373

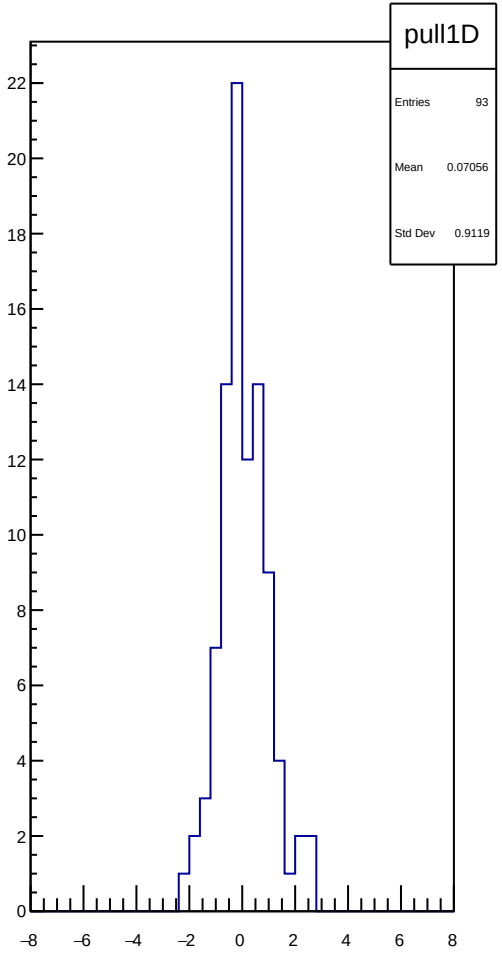

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.157e+04 / 92
p0 30.46 ± 0.0233
90
80
70
60
50
40
30
20

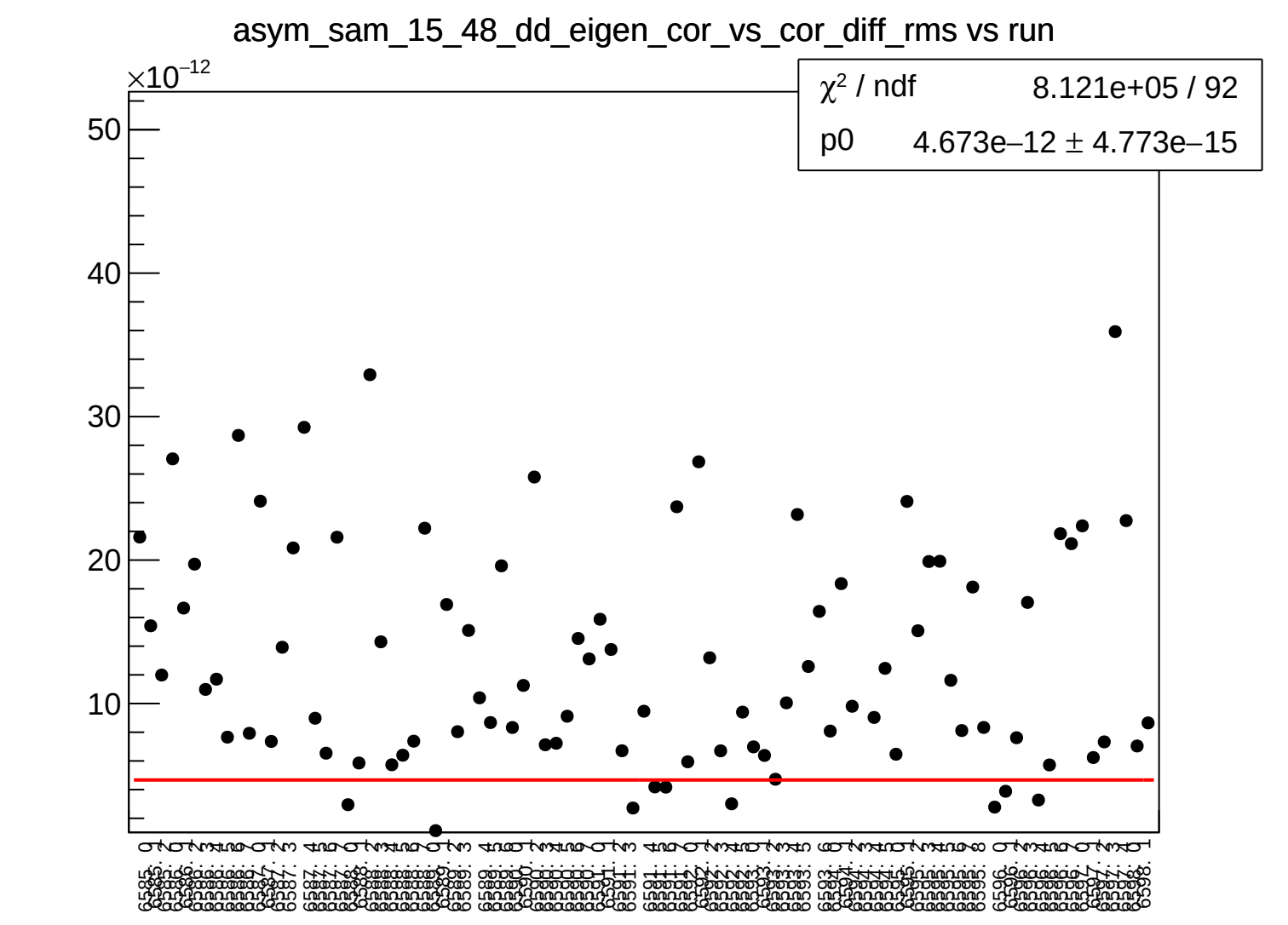

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.7 / 92
p0 −0.04683 ± 0.03295
pull
Entries 93
Mean −178.6
Std Dev 0

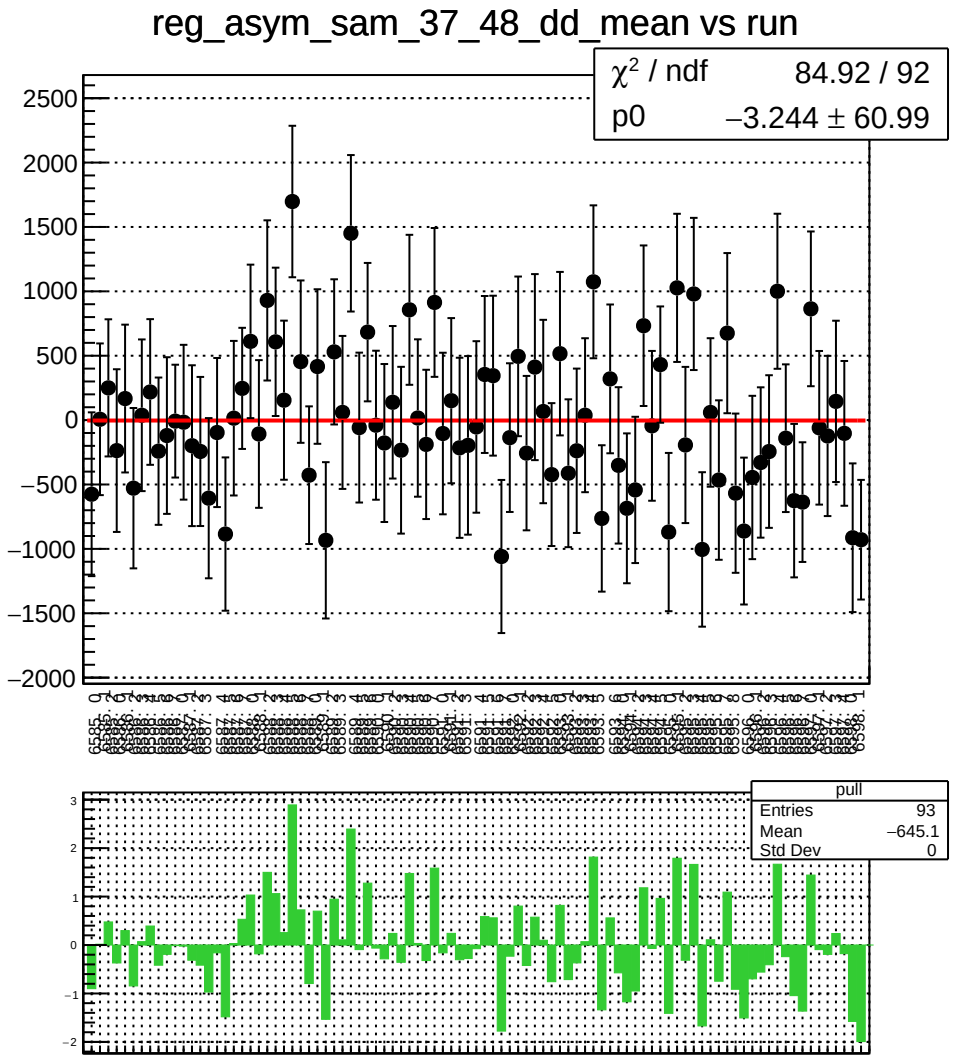

pull1D
Entries 93
Mean −0.0091
Std Dev 0.9373

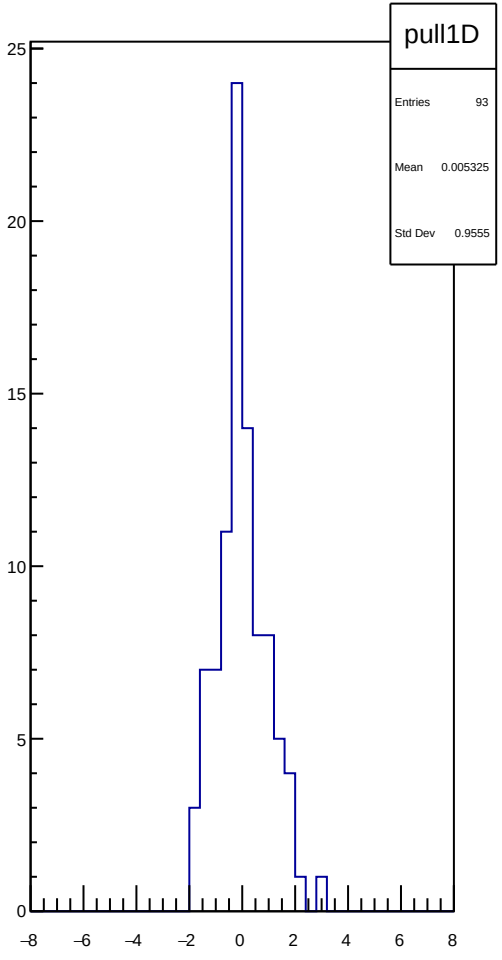

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.157e+04 / 92
p0 30.46 ± 0.0233
90
80
70
60
50
40
30
20

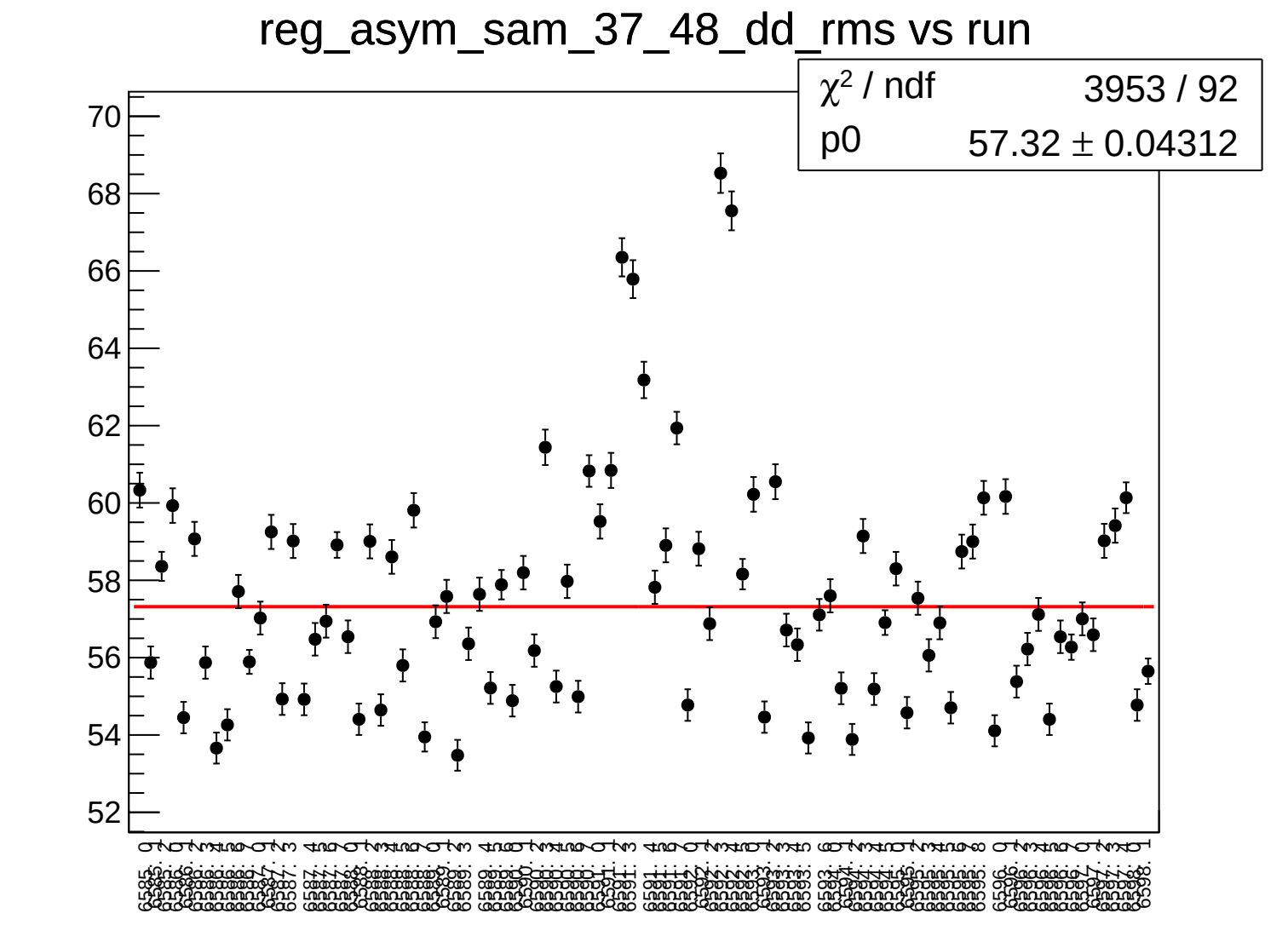

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 77.79 / 92
p0 6.964e−15 ± 6.75e−15
pull
Entries 93
Mean −63.54
Std Dev 0

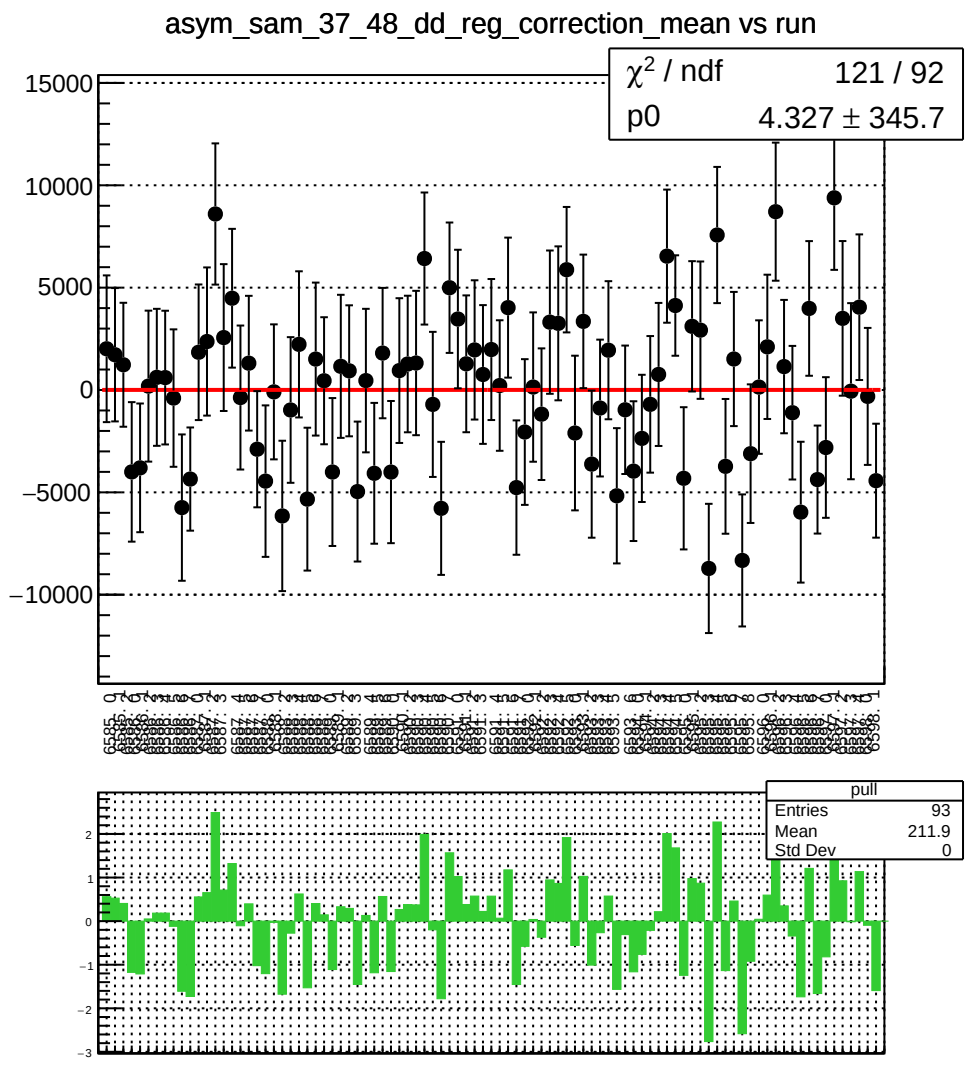

pull1D
Entries 93
Mean 0.07056
Std Dev 0.9119

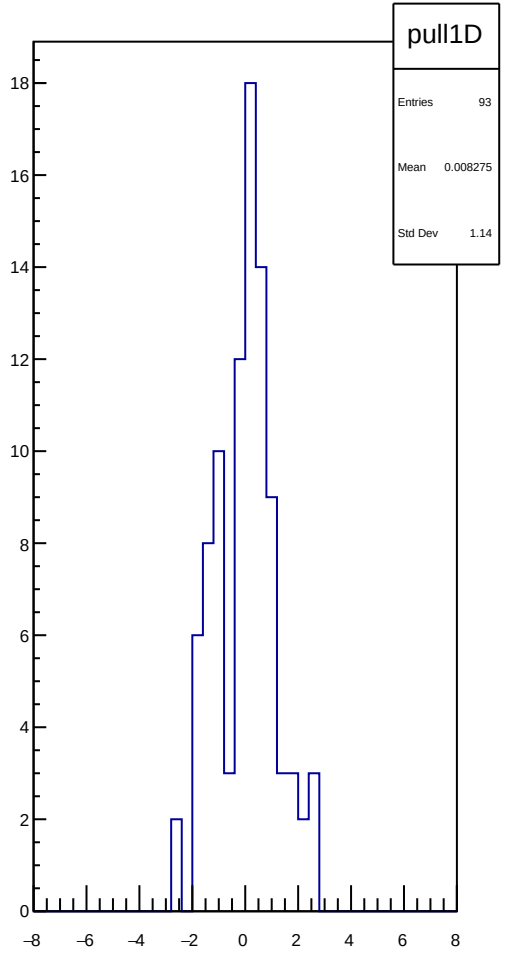

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
50
40
30
20
10
χ² / ndf 8.121e+05 / 92
p0 4.673e−12 ± 4.773e−15

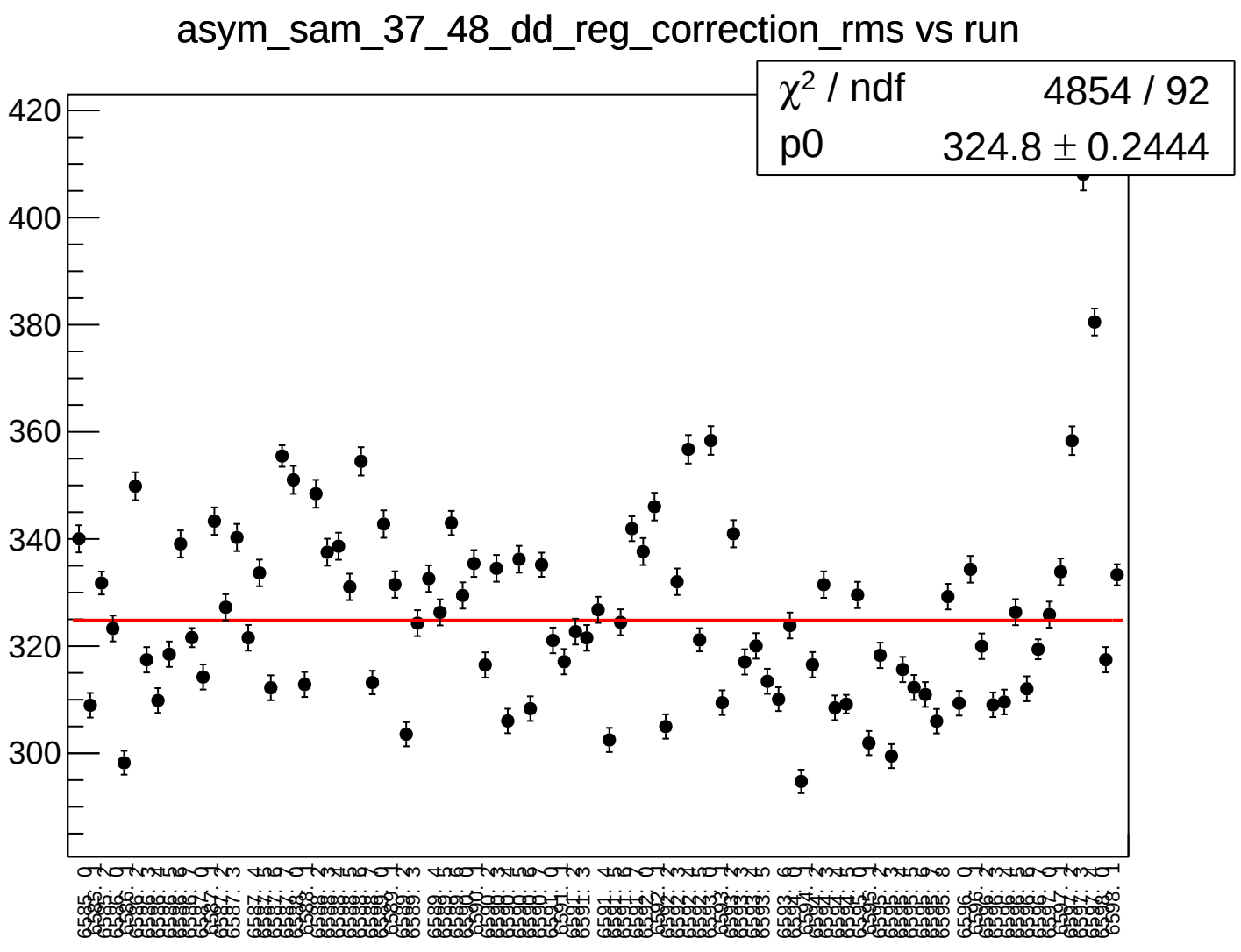

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 84.92 / 92
p0 −3.244 ± 60.99
pull
Entries 93
Mean −645.1
Std Dev 0

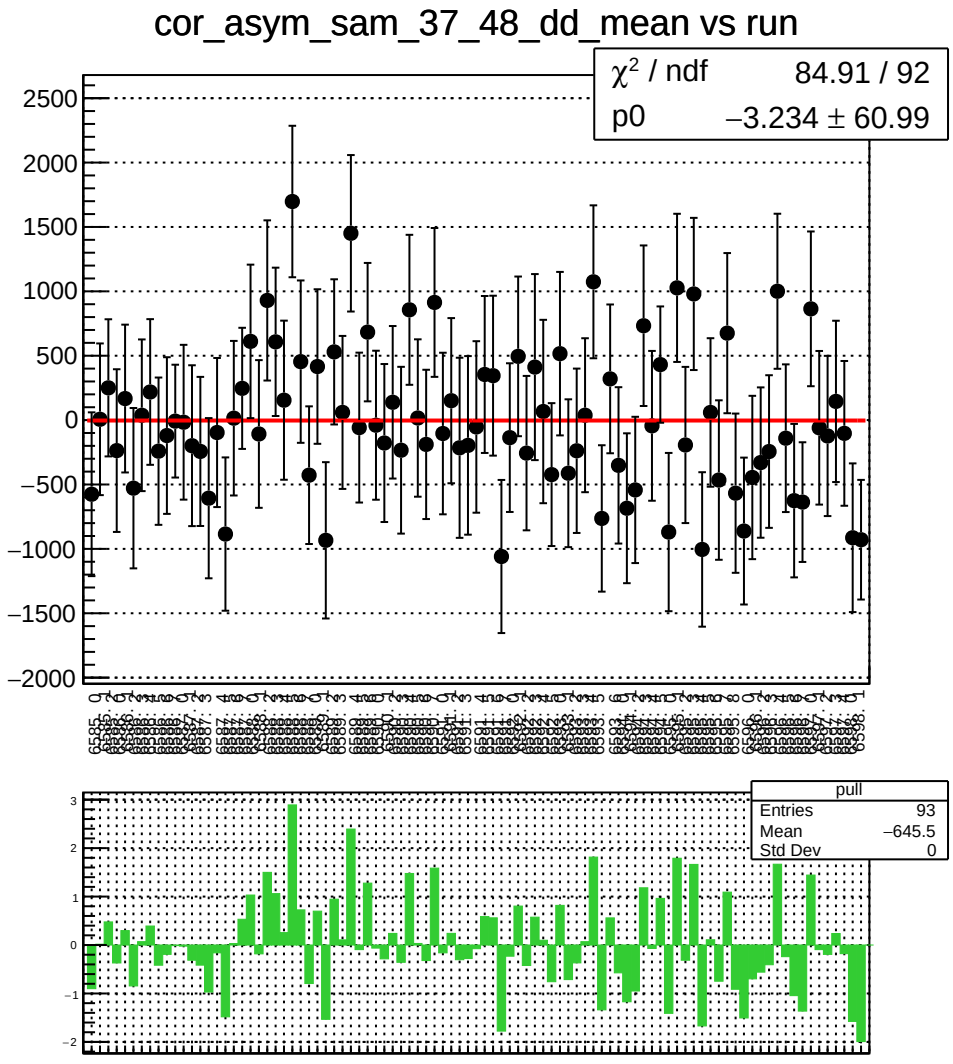

pull1D
Entries 93
Mean 0.005325
Std Dev 0.9555

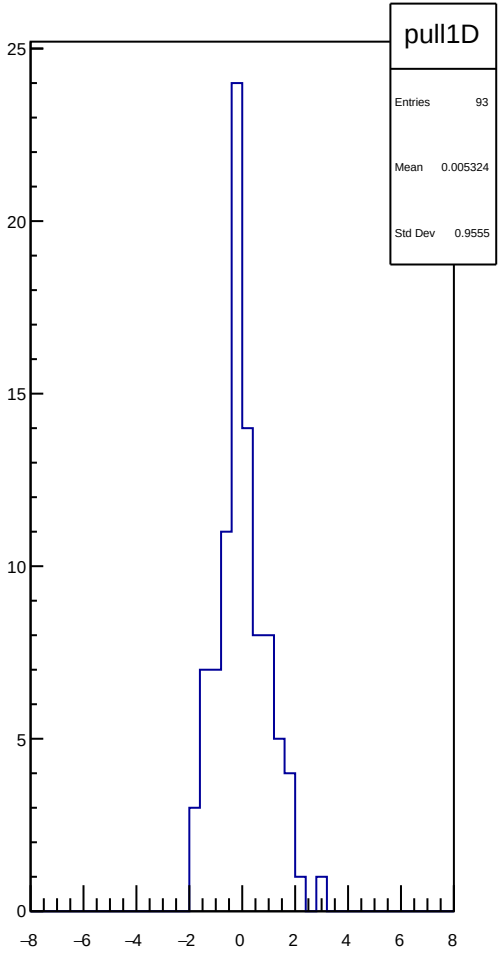

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 3953 / 92
p0 57.32 ± 0.04312
70
68
66
64
62
60
58
56
54
52

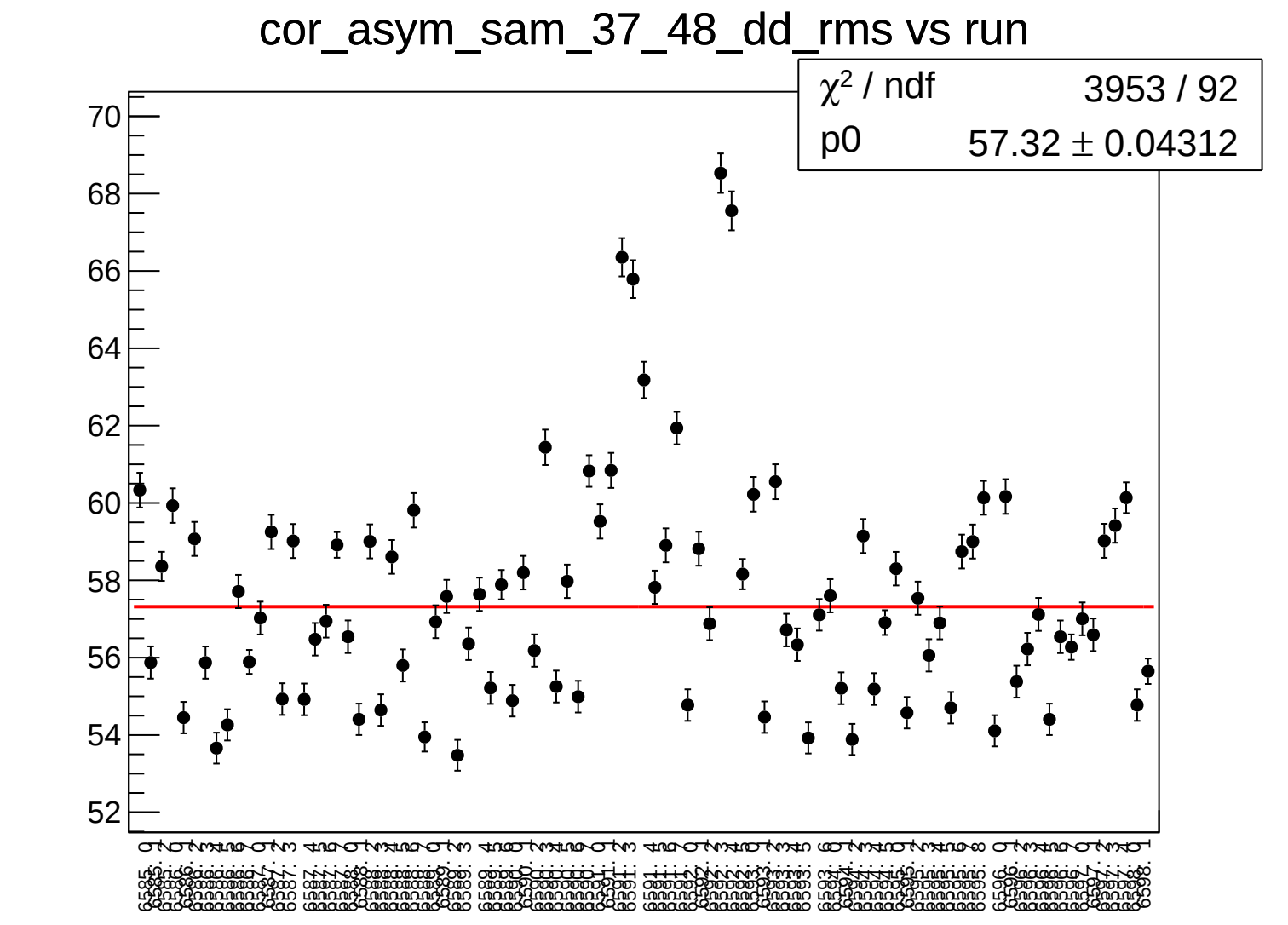

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 121 / 92
p0 4.327 ± 345.7
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 211.9
Std Dev 0
2
1
0
−1
−2
−3

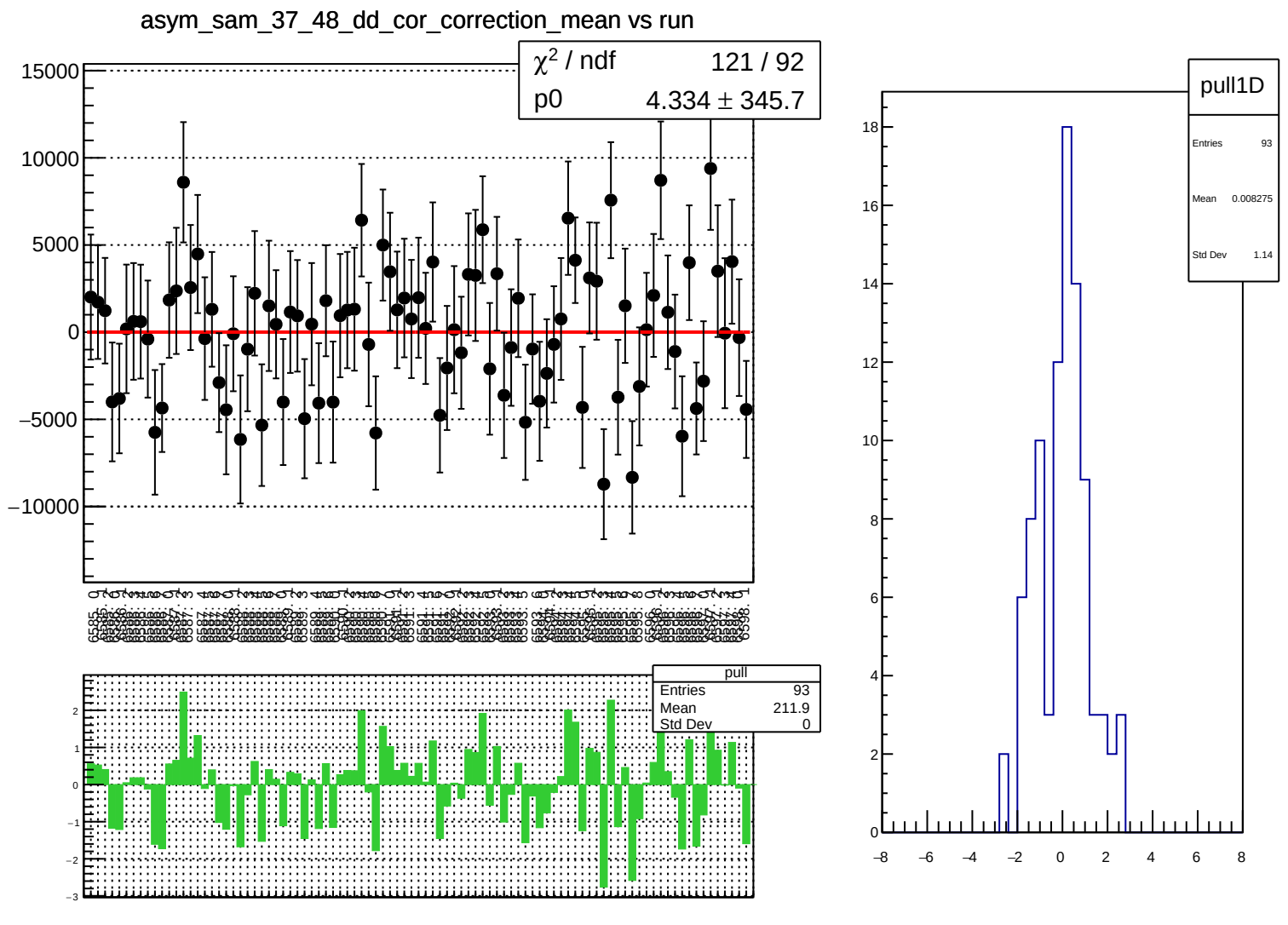

pull1D
Entries 93
Mean 0.008275
Std Dev 1.14
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

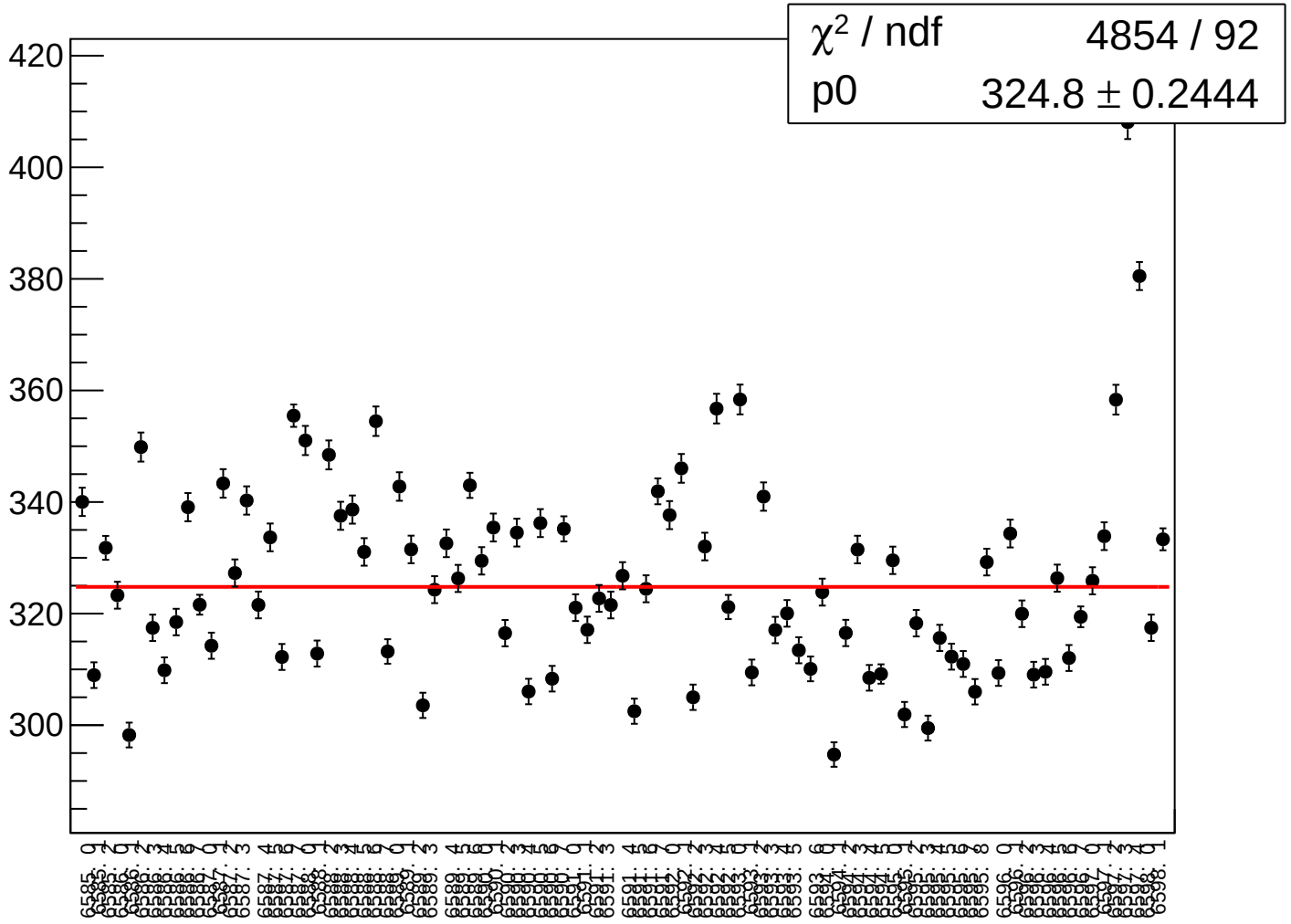

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 4854 / 92
p0 324.8 ± 0.2444
420
400
380
360
340
320
300

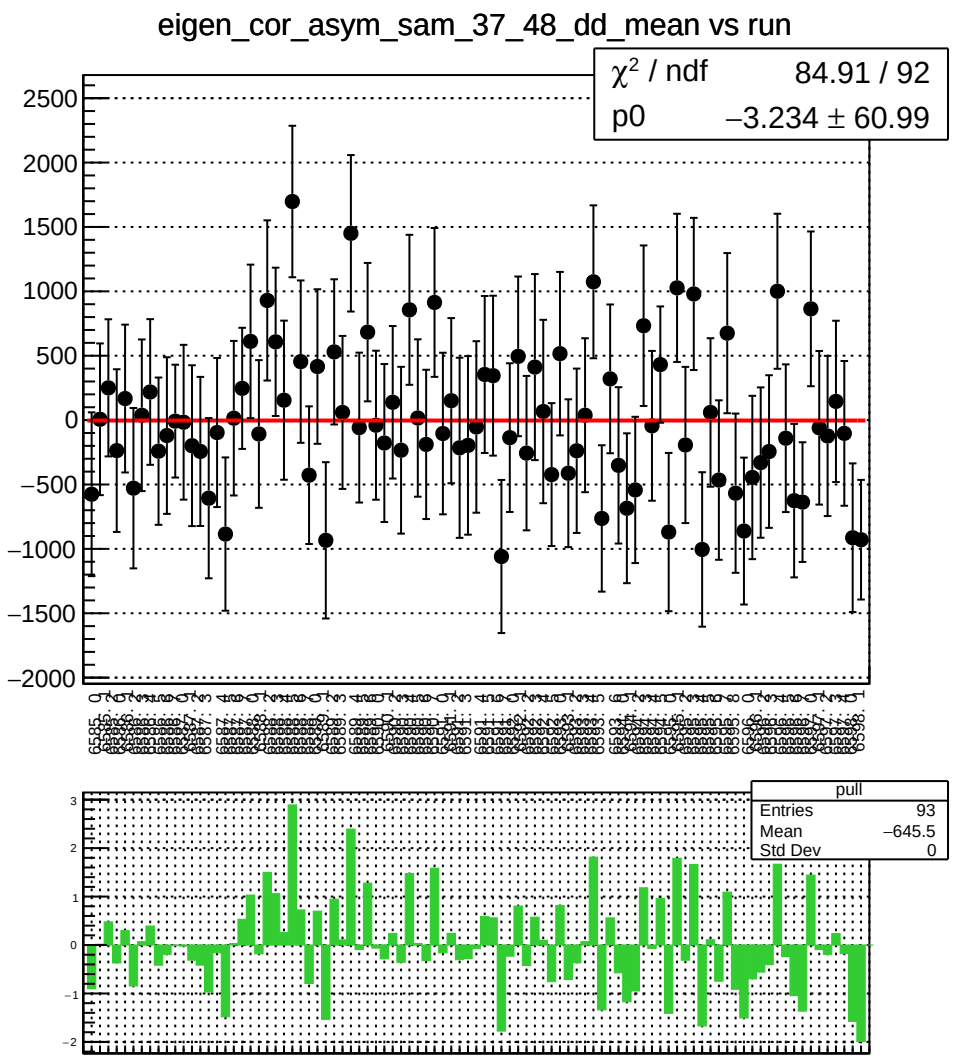

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 84.91 / 92
p0 −3.234 ± 60.99
pull
Entries 93
Mean −645.5
Std Dev 0

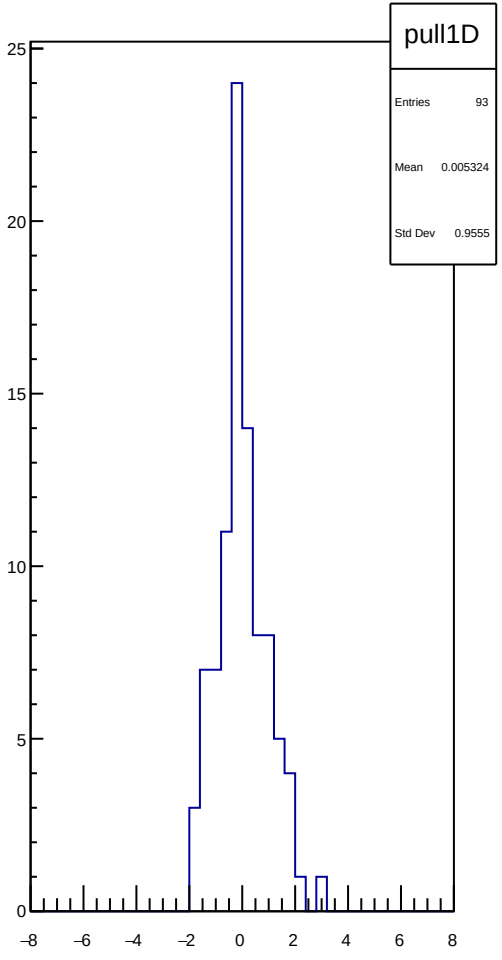

pull1D
Entries 93
Mean 0.005324
Std Dev 0.9555

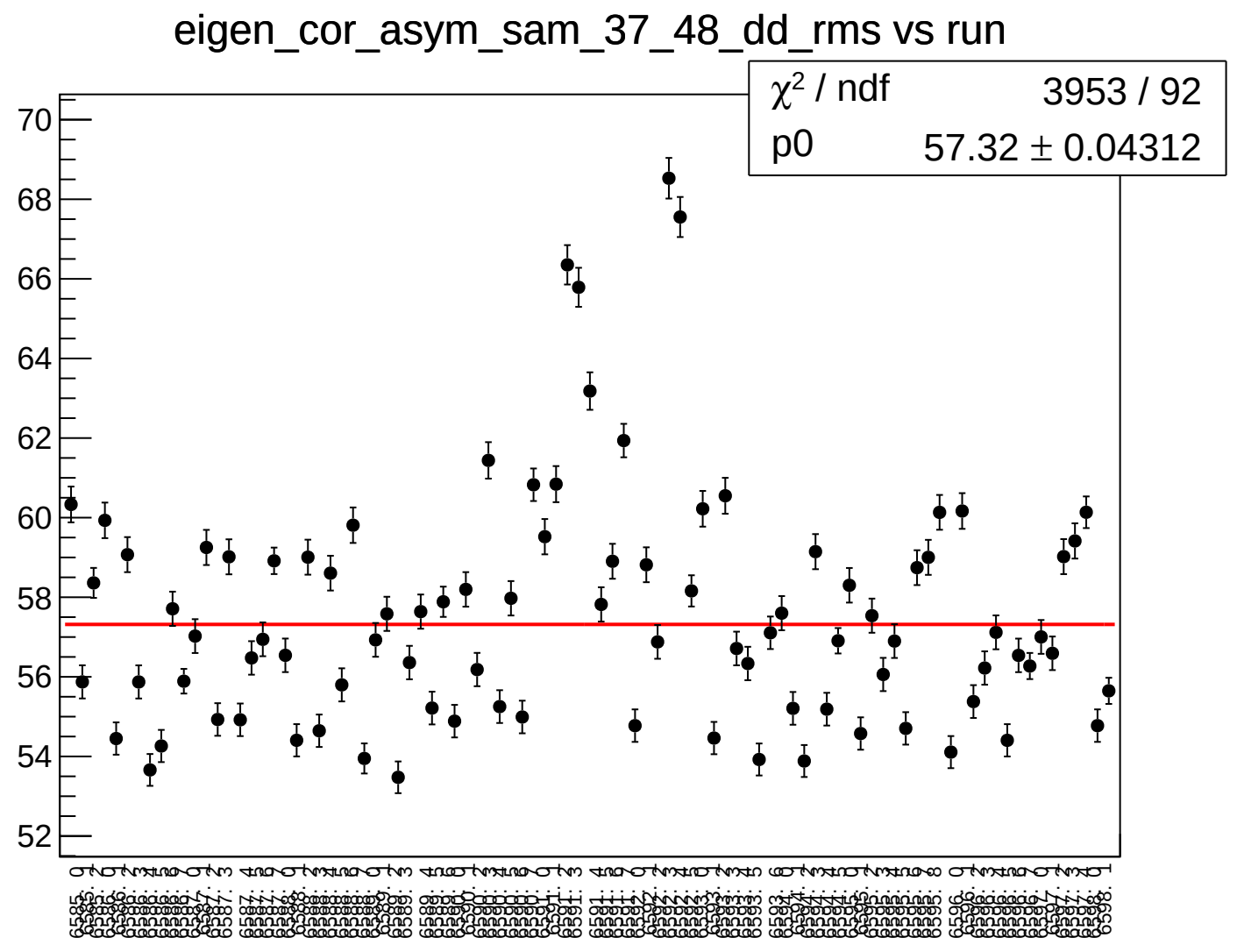

cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 3953 / 92
p0 57.32 ± 0.04312
70
68
66
64
62
60
58
56
54
52

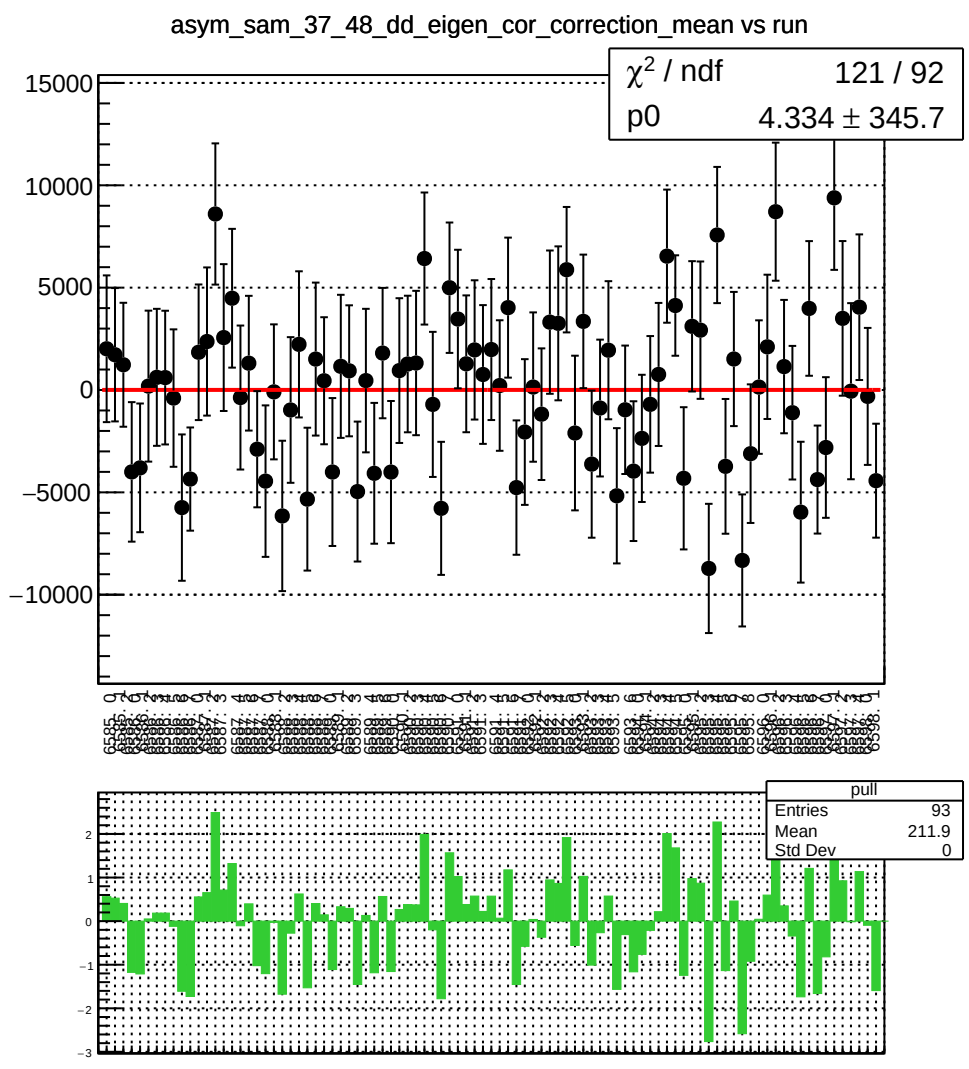

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 121 / 92
p0 4.334 ± 345.7
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 211.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.008275
Std Dev 1.14
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

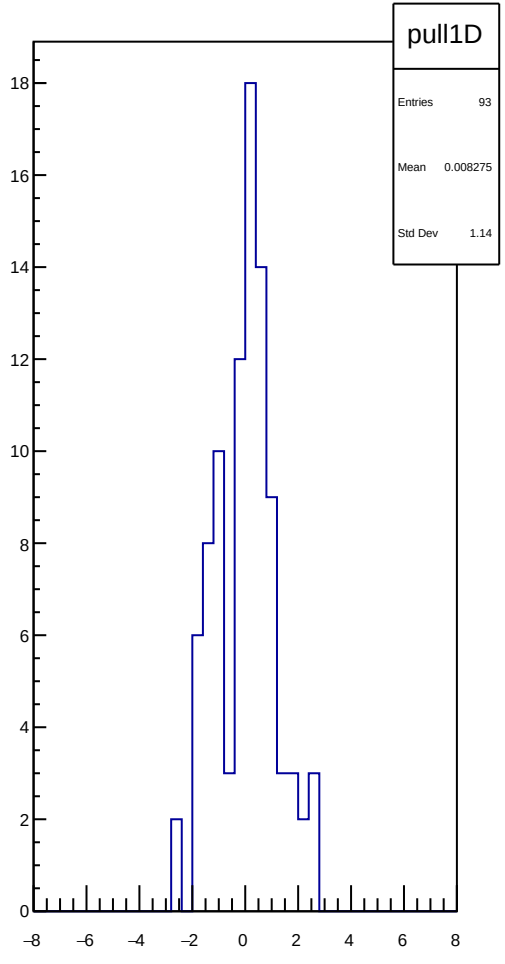

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 4854 / 92
p0 324.8 ± 0.2444
420
400
380
360
340
320
300

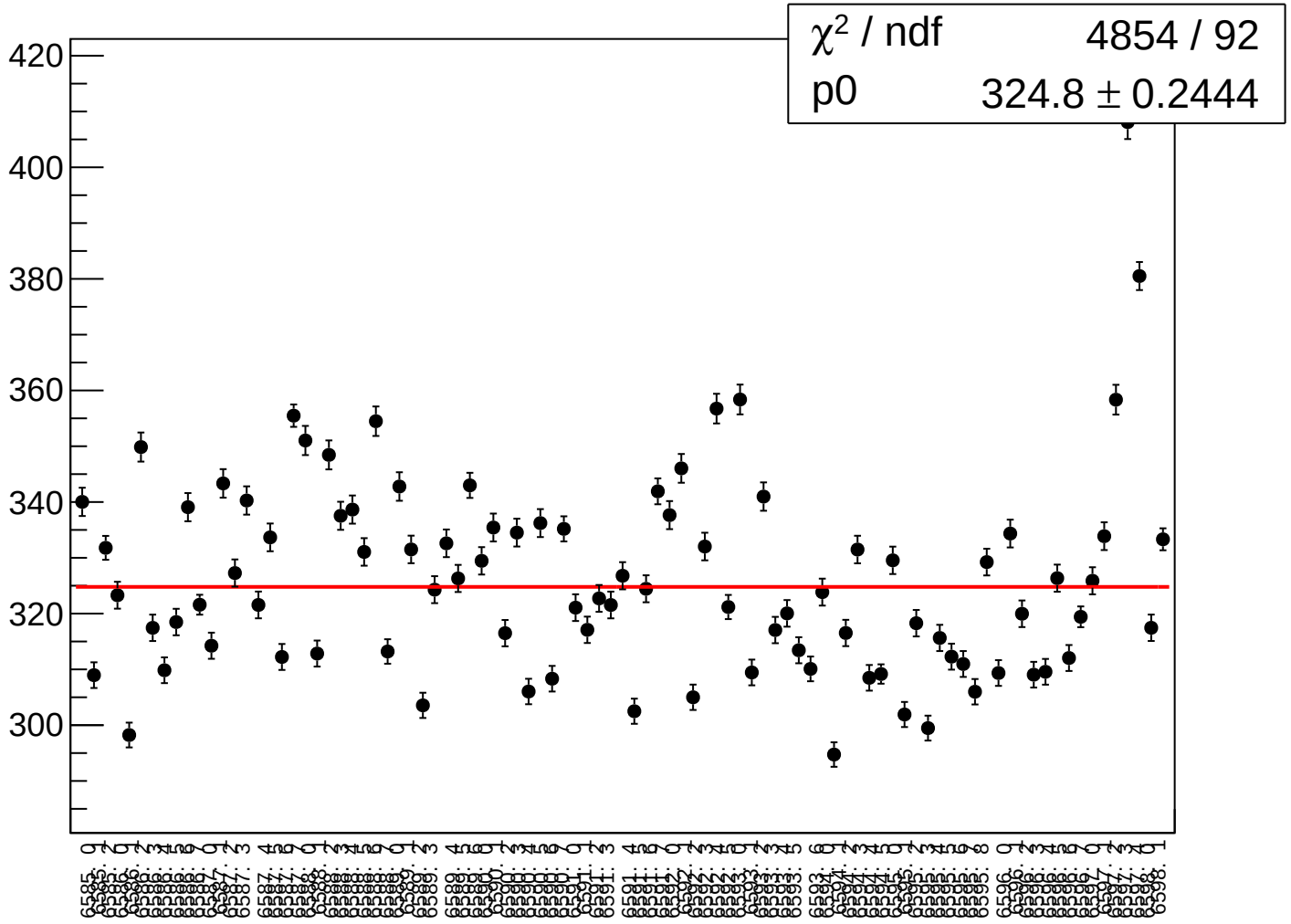

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 84.91 / 92
p0 −3.234 ± 60.99
pull
Entries 93
Mean −645.5
Std Dev 0

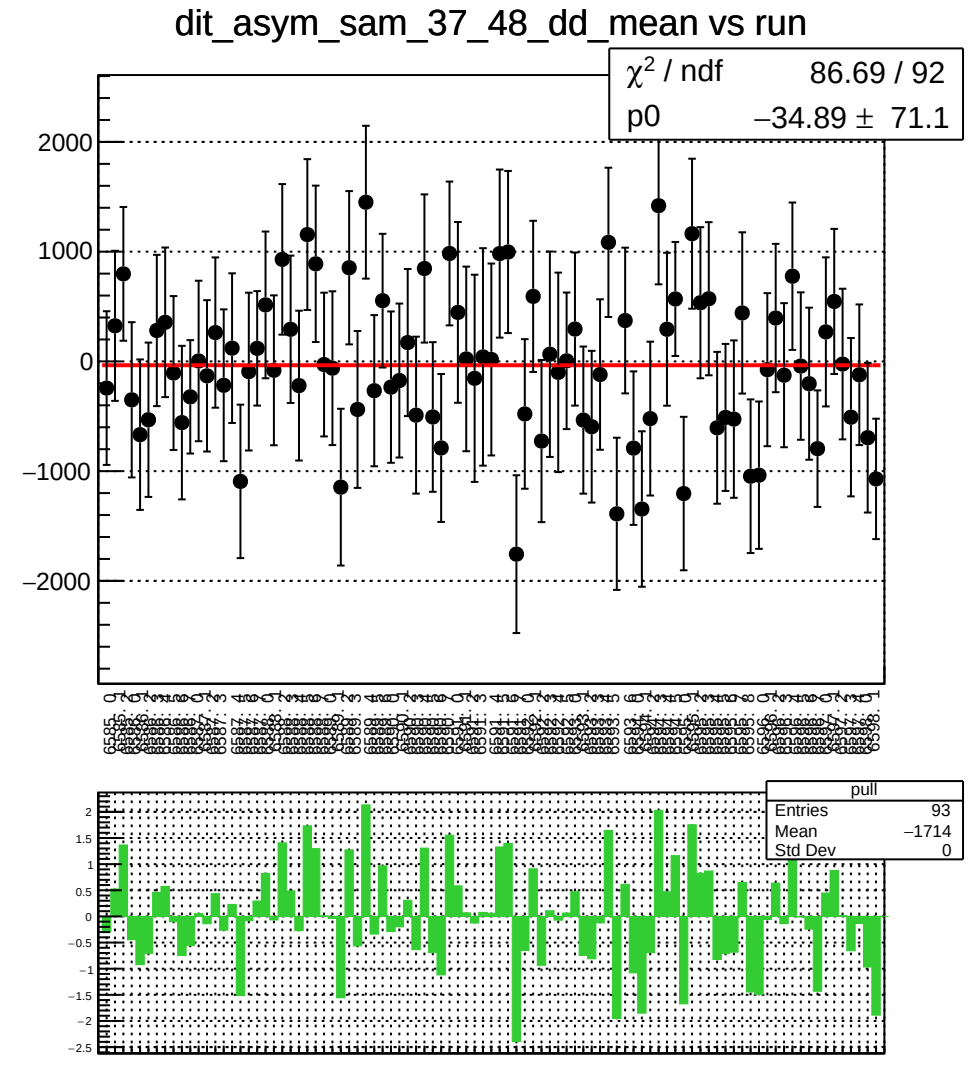

pull1D
Entries 93
Mean 0.005324
Std Dev 0.9555

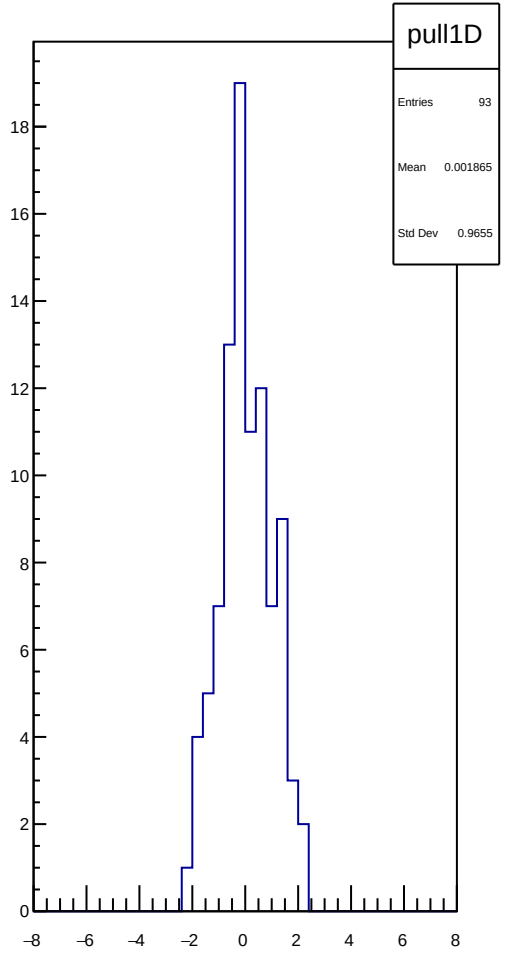

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 3953 / 92
p0 57.32 ± 0.04312
70
68
66
64
62
60
58
56
54
52

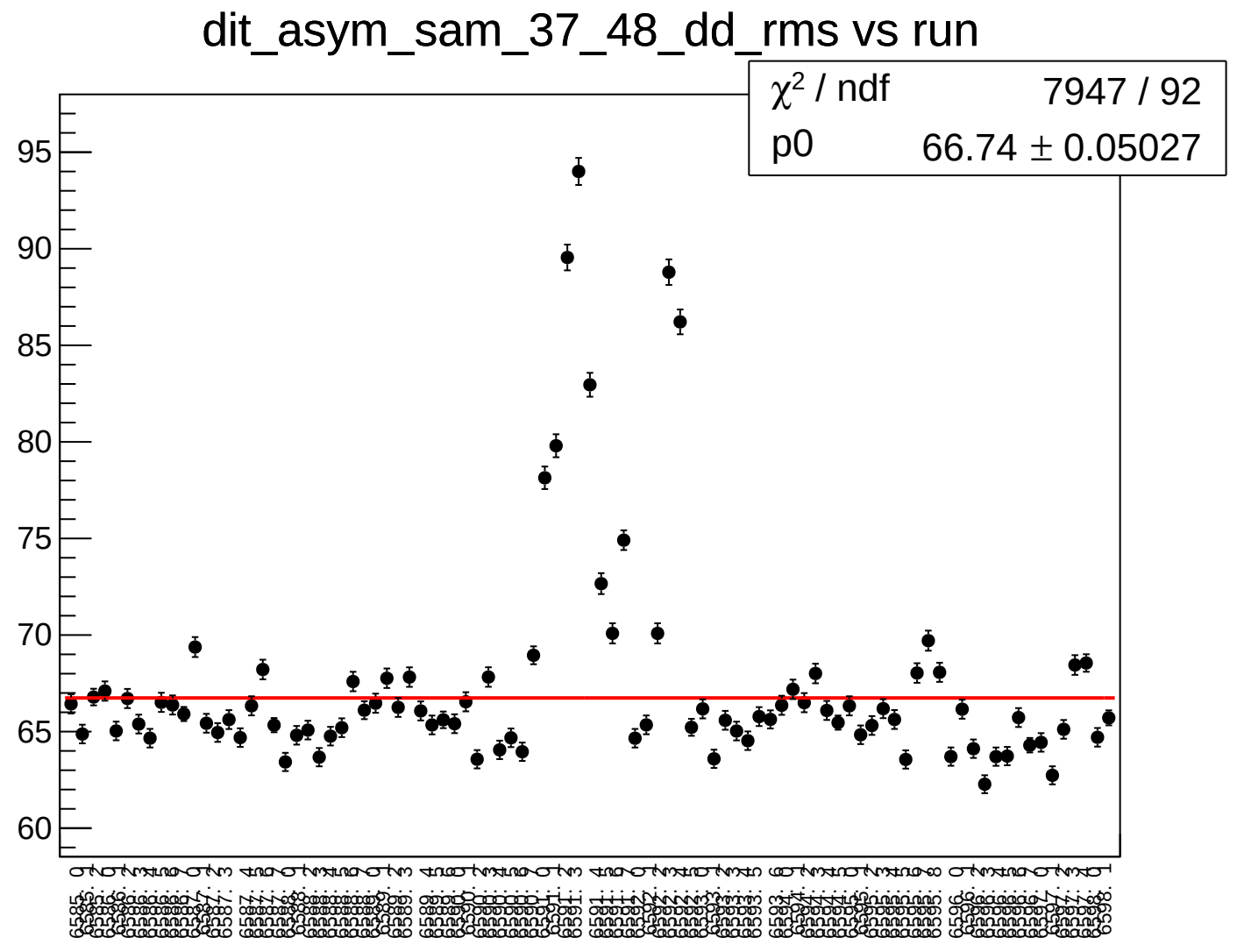

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 121 / 92
p0 4.334 ± 345.7
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 211.9
Std Dev 0
2
1
0
−1
−2
−3

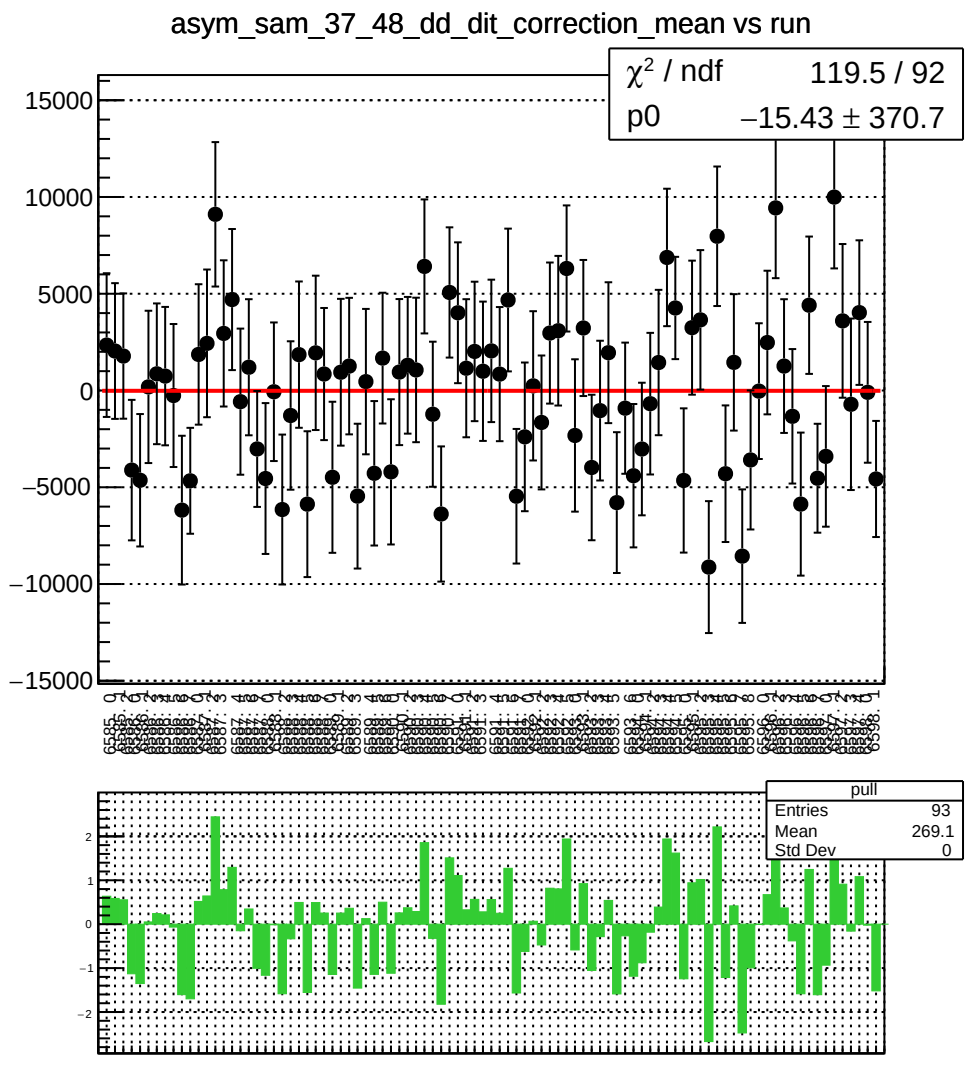

pull1D
Entries 93
Mean 0.008275
Std Dev 1.14
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

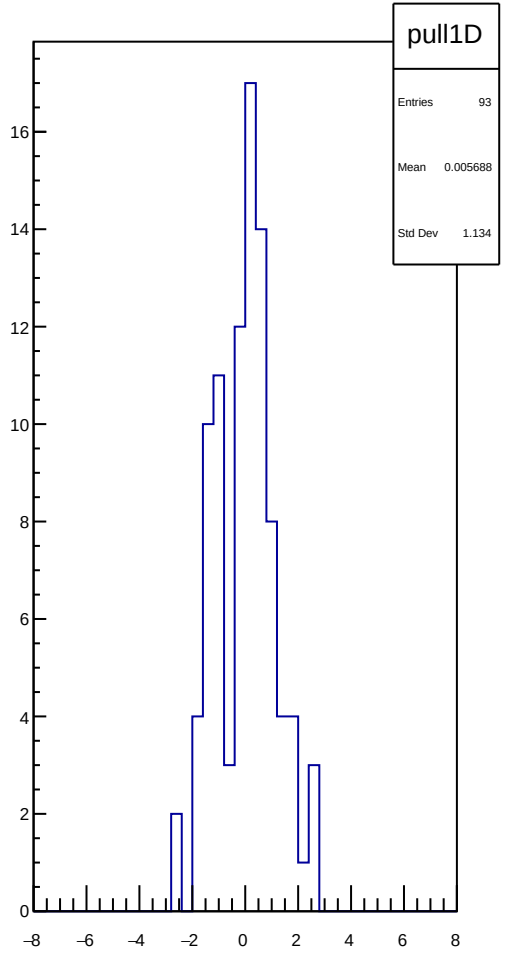

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4854 / 92
p0 324.8 ± 0.2444
420
400
380
360
340
320
300

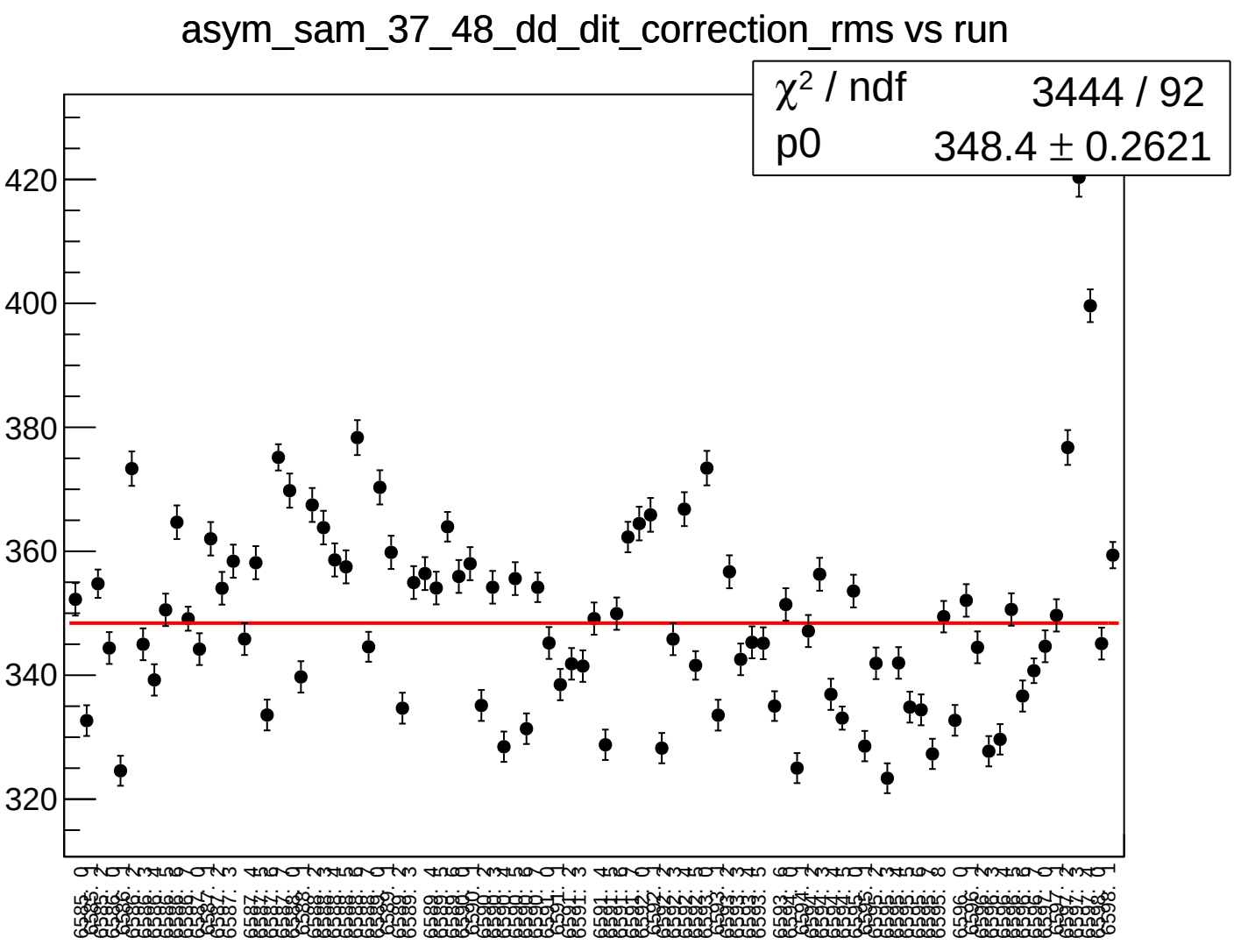

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 86.69 / 92
p0 −34.89 ± 71.1
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −1714
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

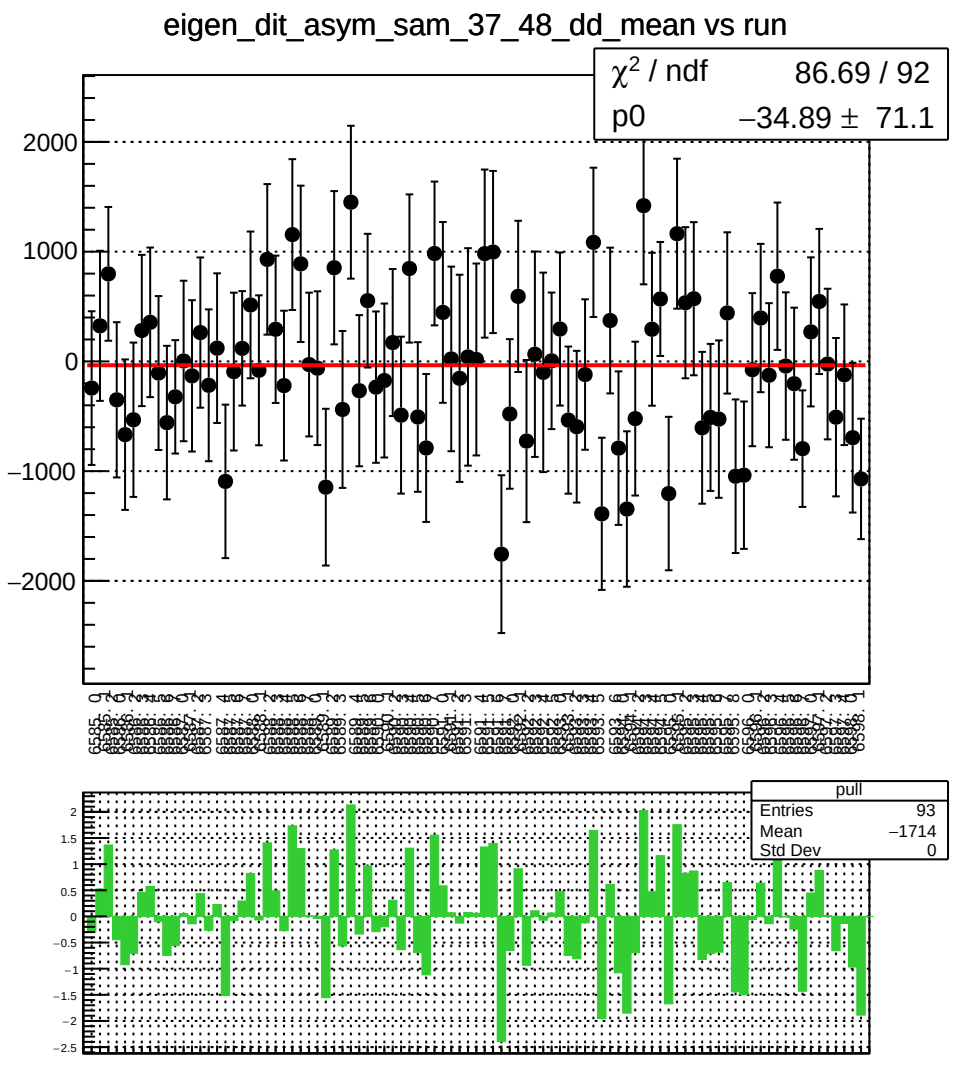

pull1D
Entries 93
Mean 0.001865
Std Dev 0.9655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

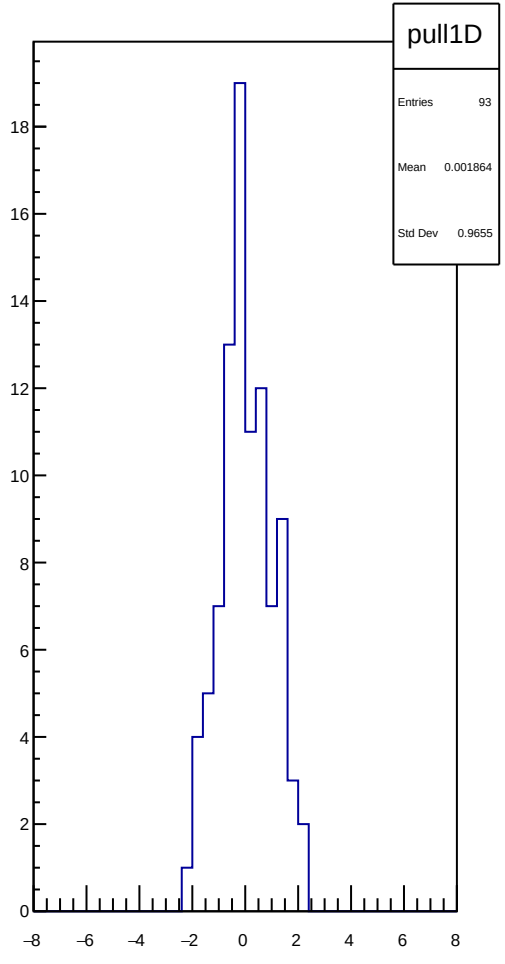

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 7947 / 92
p0 66.74 ± 0.05027
95
90
85
80
75
70
65
60

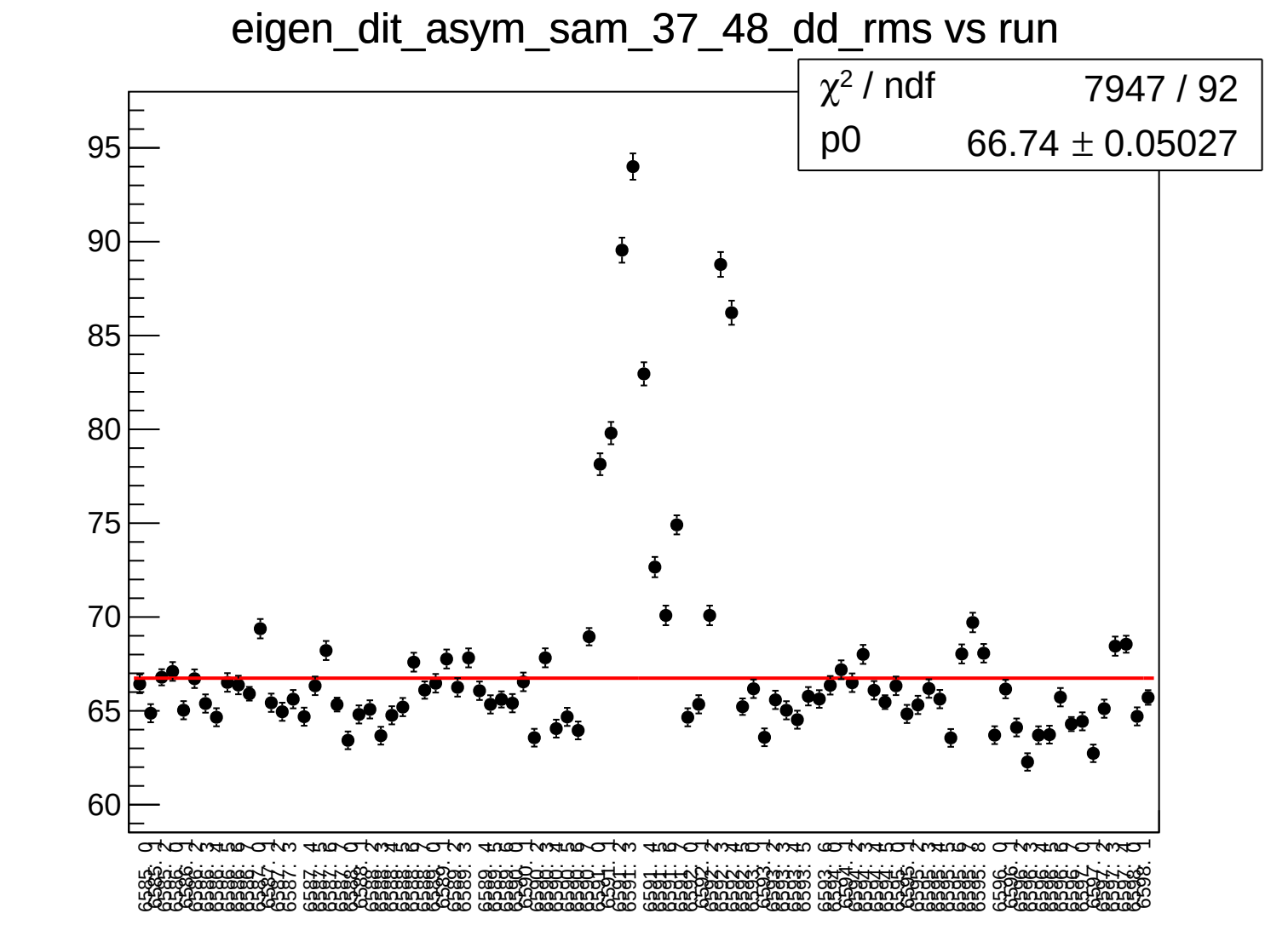

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 119.5 / 92
p0 −15.43 ± 370.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 269.1
Std Dev 0
2
1
0
−1
−2

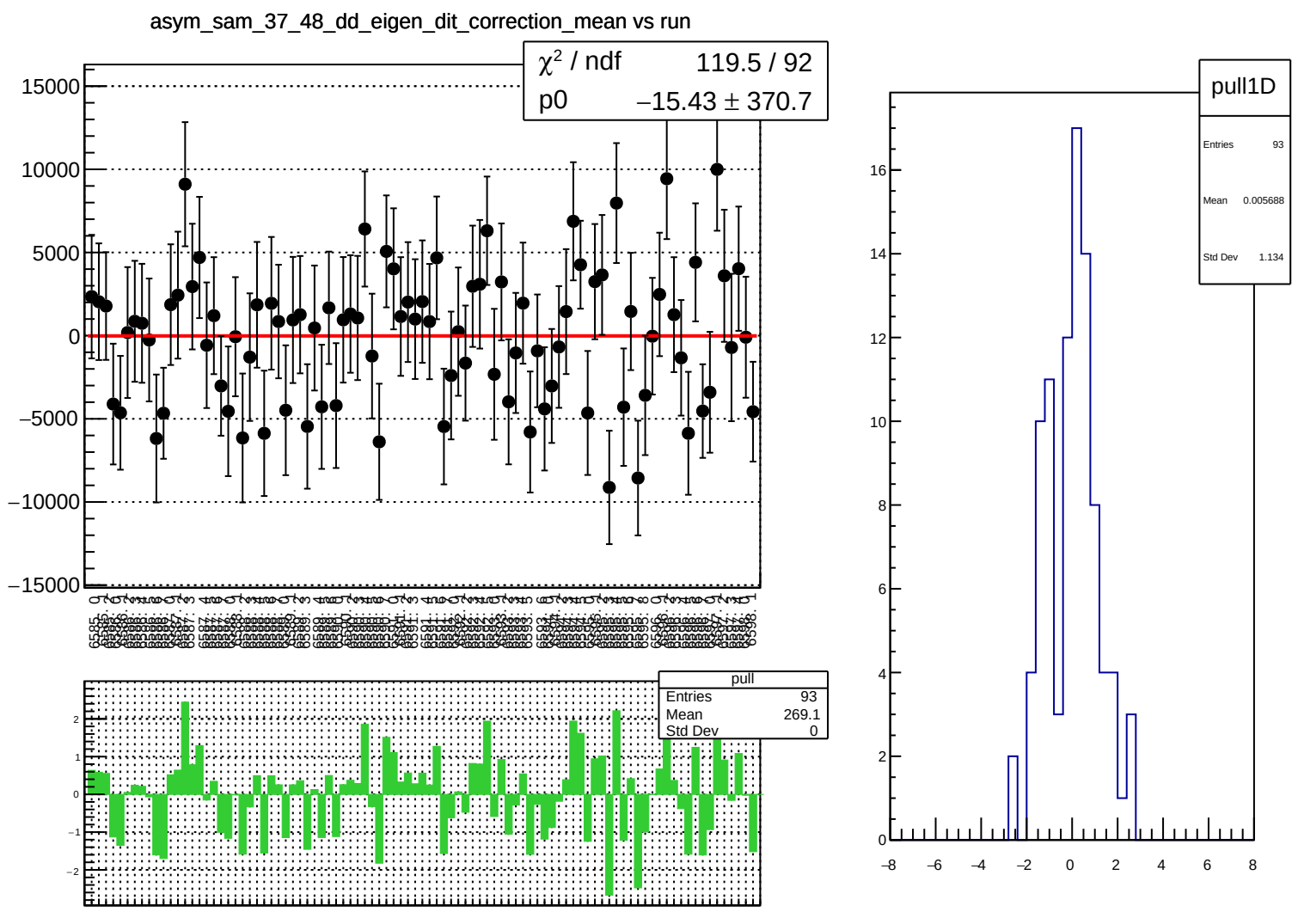

pull1D
Entries 93
Mean 0.005688
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

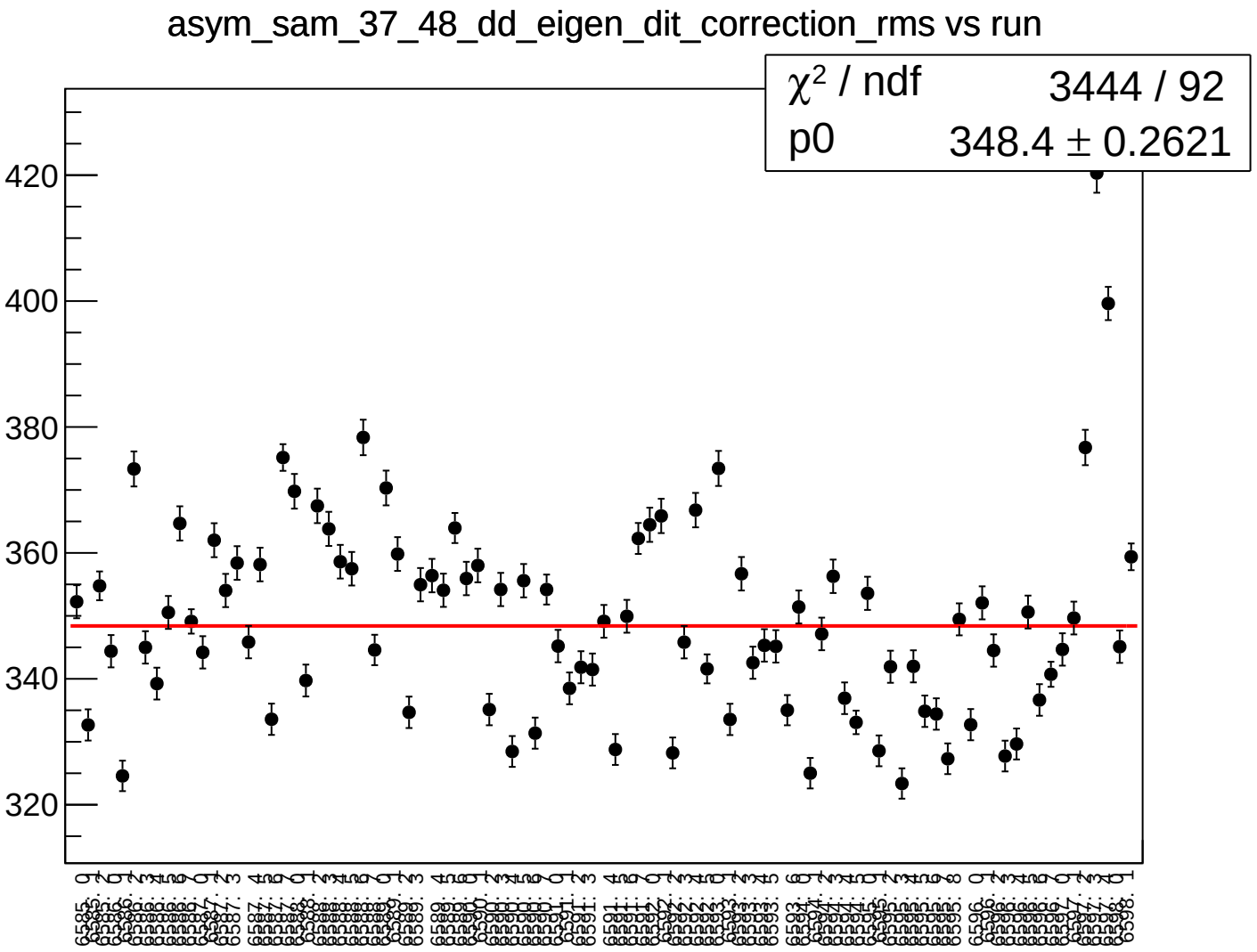

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 3444 / 92
p0 348.4 ± 0.2621
420
400
380
360
340
320

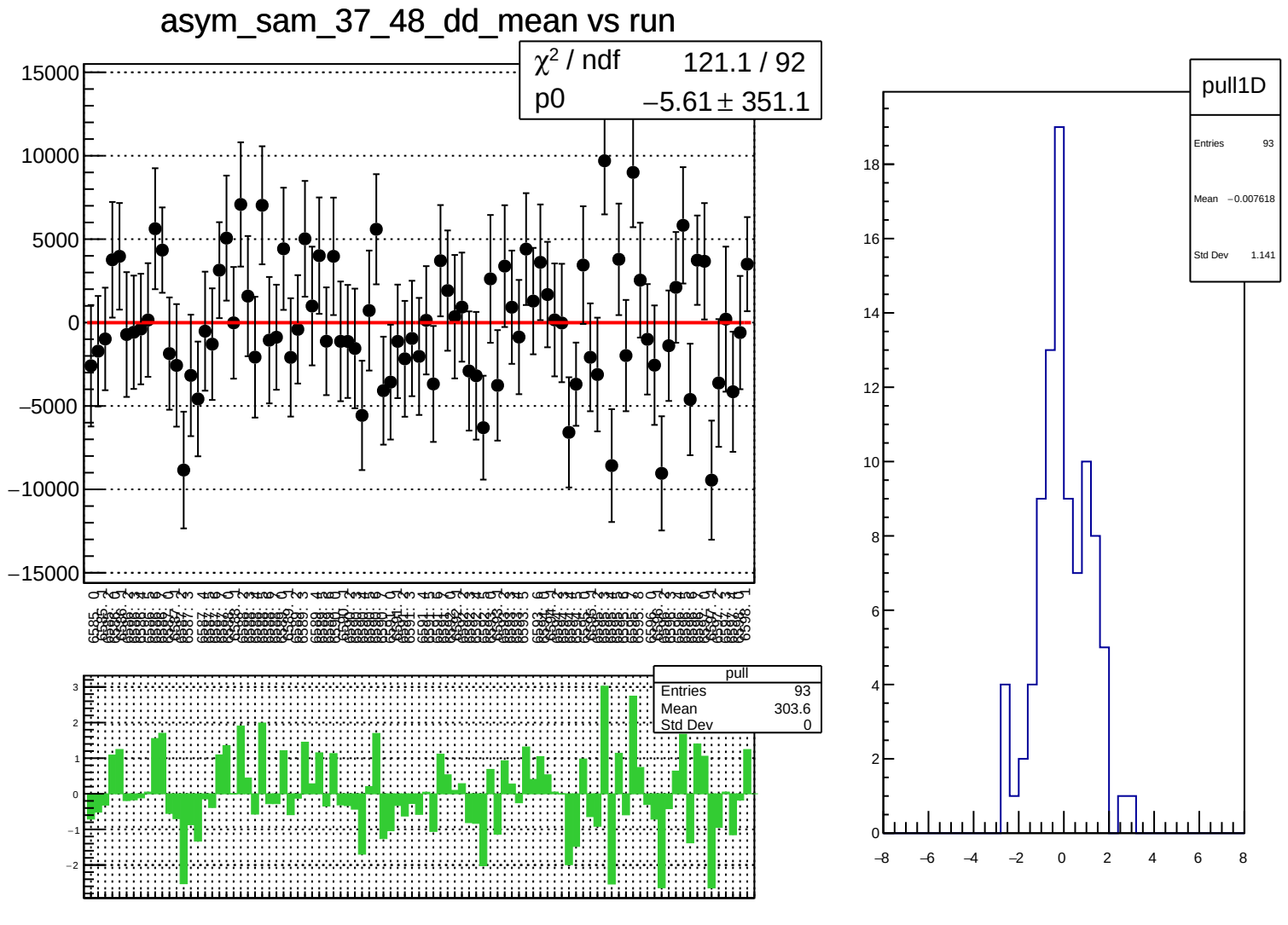

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 86.69 / 92
p0 −34.89 ± 71.1
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −1714
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

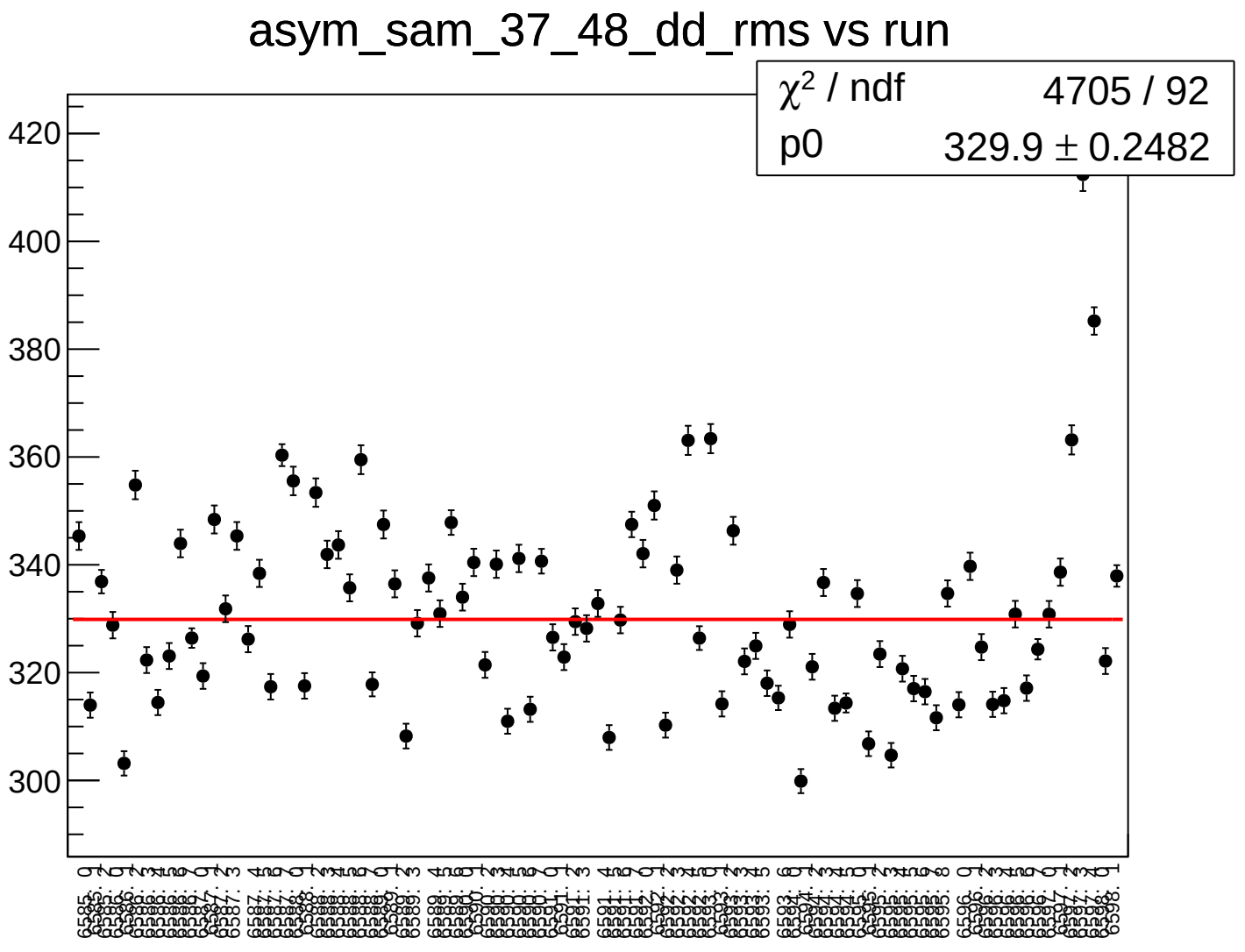

pull1D
Entries 93
Mean 0.001864
Std Dev 0.9655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

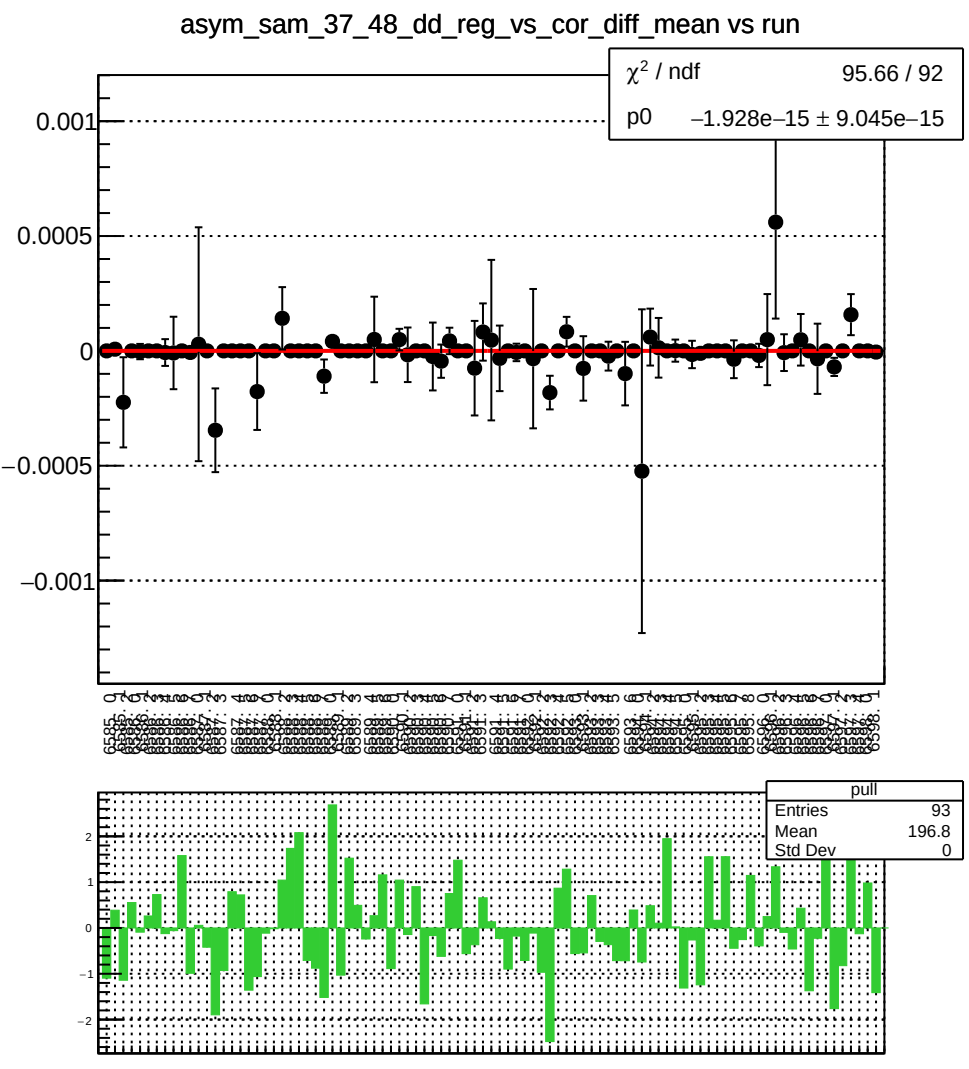

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 7947 / 92
p0 66.74 ± 0.05027
95
90
85
80
75
70
65
60

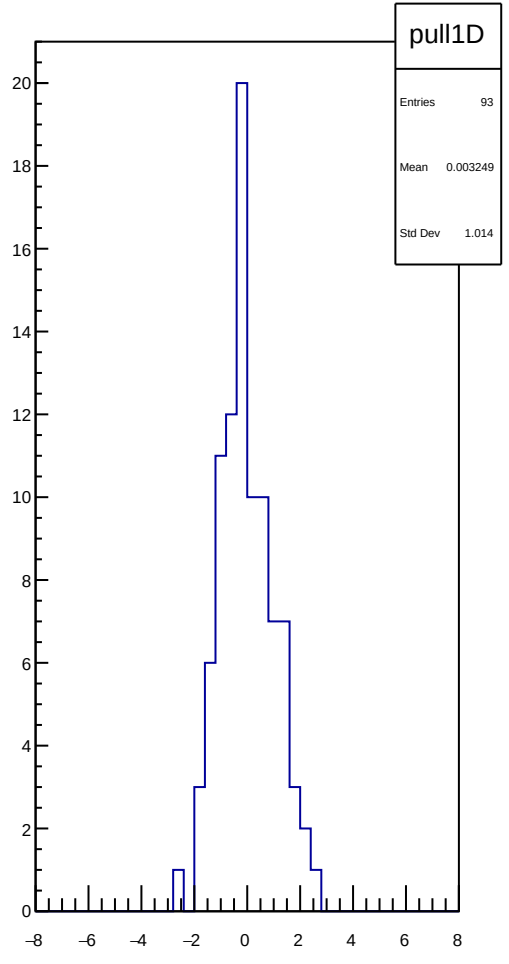

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 119.5 / 92
p0 −15.43 ± 370.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 269.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005688
Std Dev 1.134
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

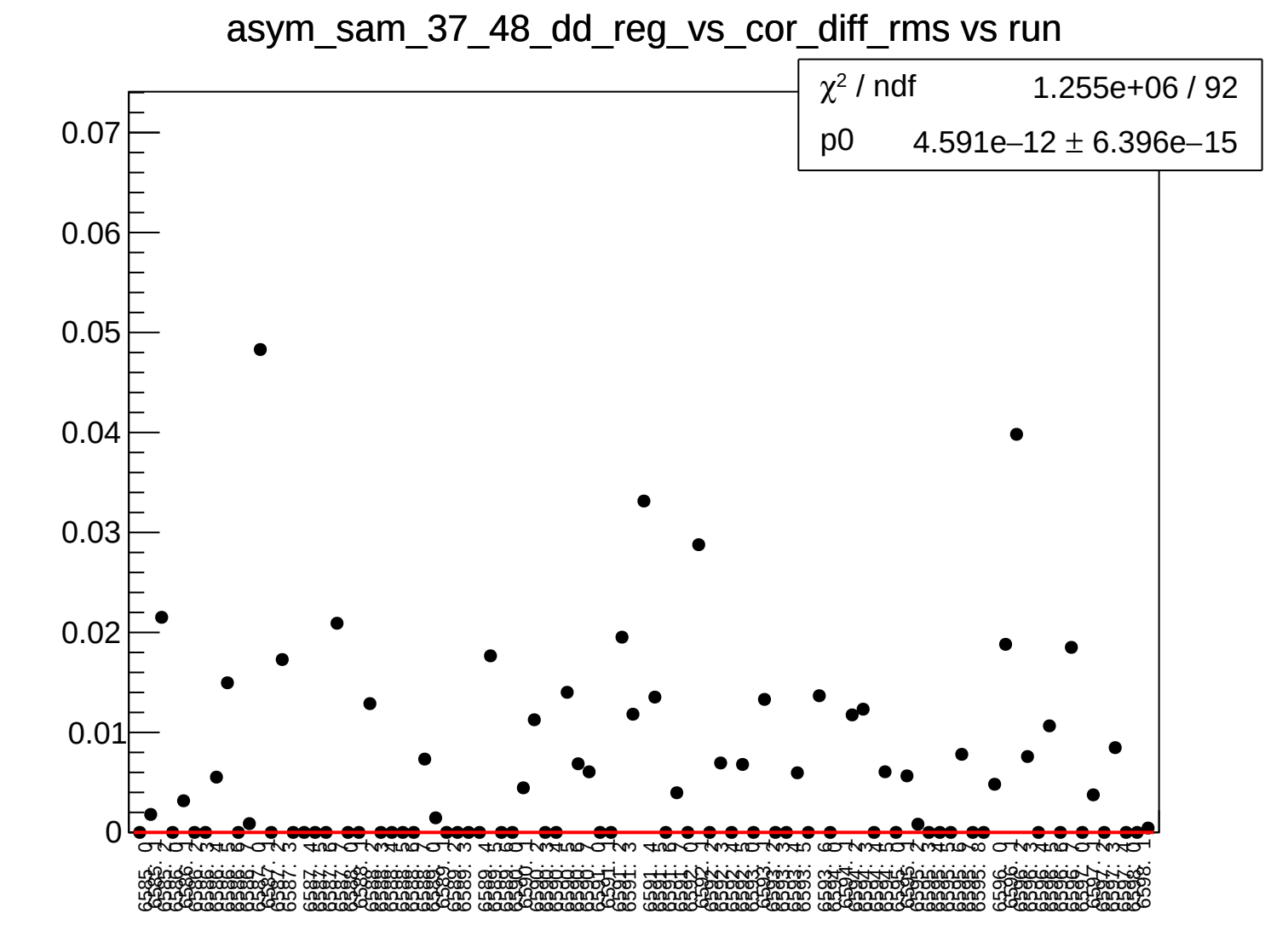

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3444 / 92
p0 348.4 ± 0.2621
420
400
380
360
340
320

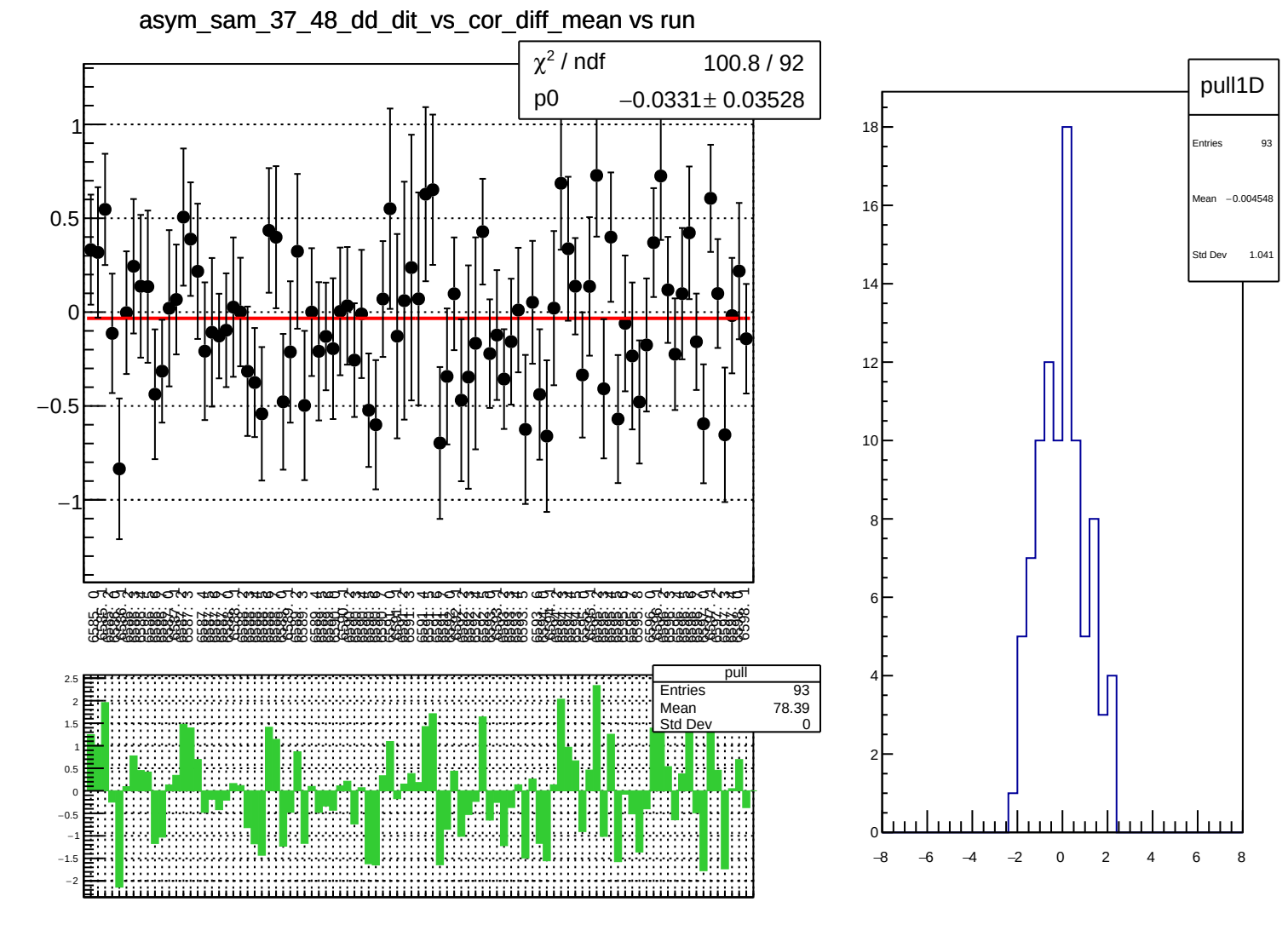

asym_sam_37_48_dd_mean vs run
χ² / ndf 121.1 / 92
p0 −5.61 ± 351.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 303.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.007618
Std Dev 1.141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

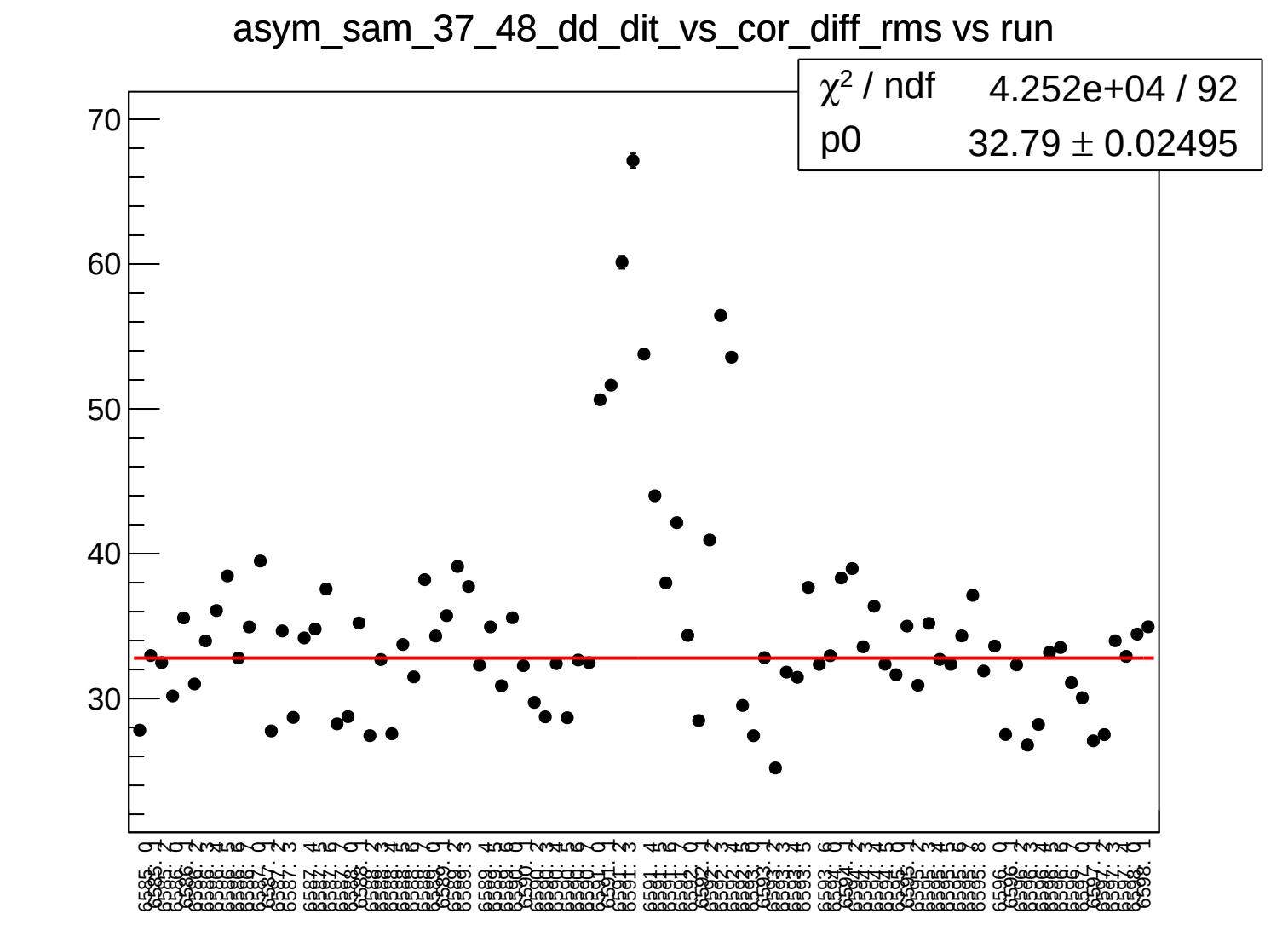

asym_sam_37_48_dd_rms vs run
χ² / ndf 4705 / 92
p0 329.9 ± 0.2482
420
400
380
360
340
320
300

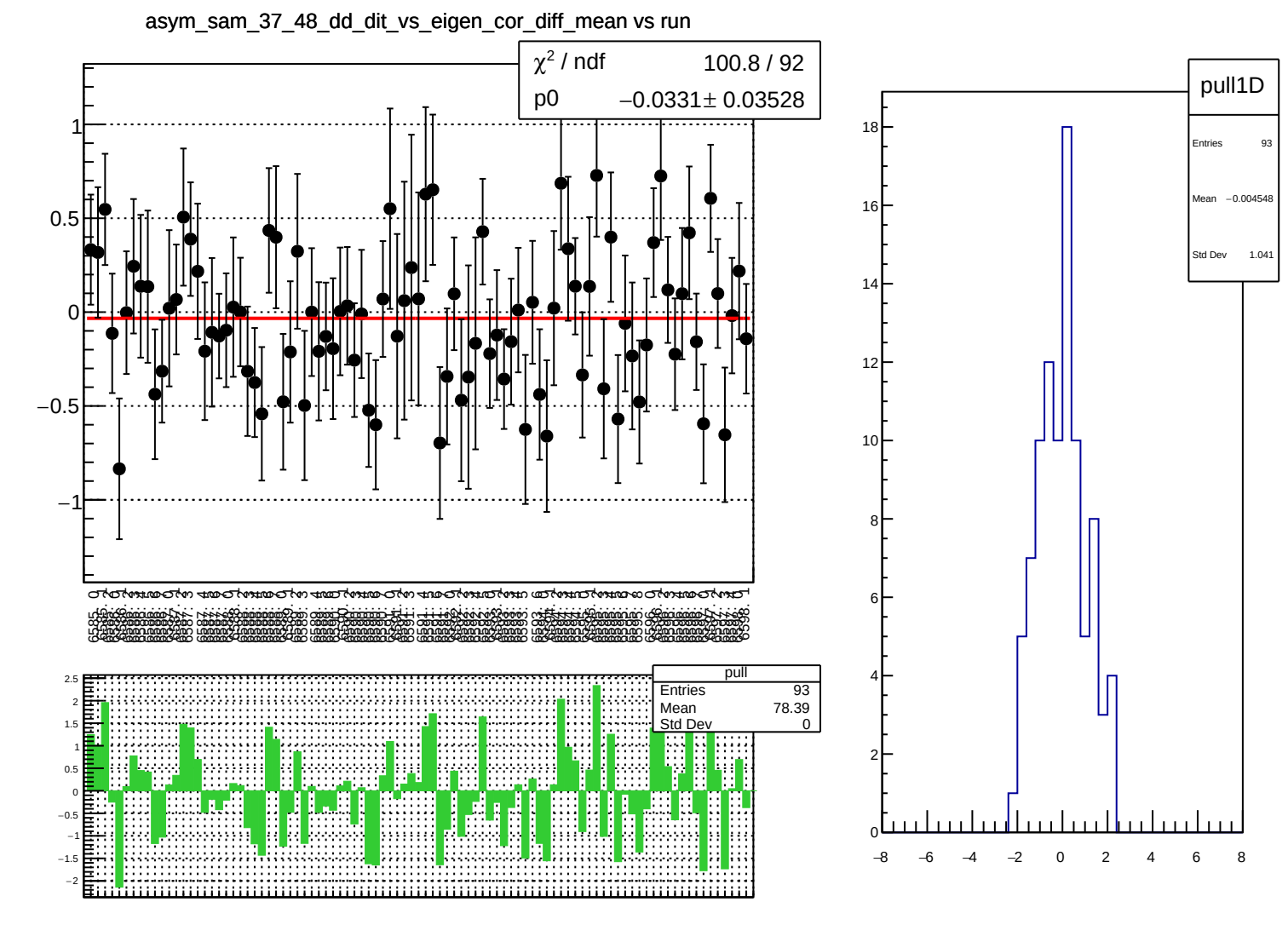

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.66 / 92
p0 −1.928e−15 ± 9.045e−15
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 196.8
Std Dev 0
2
1
0
−1
−2

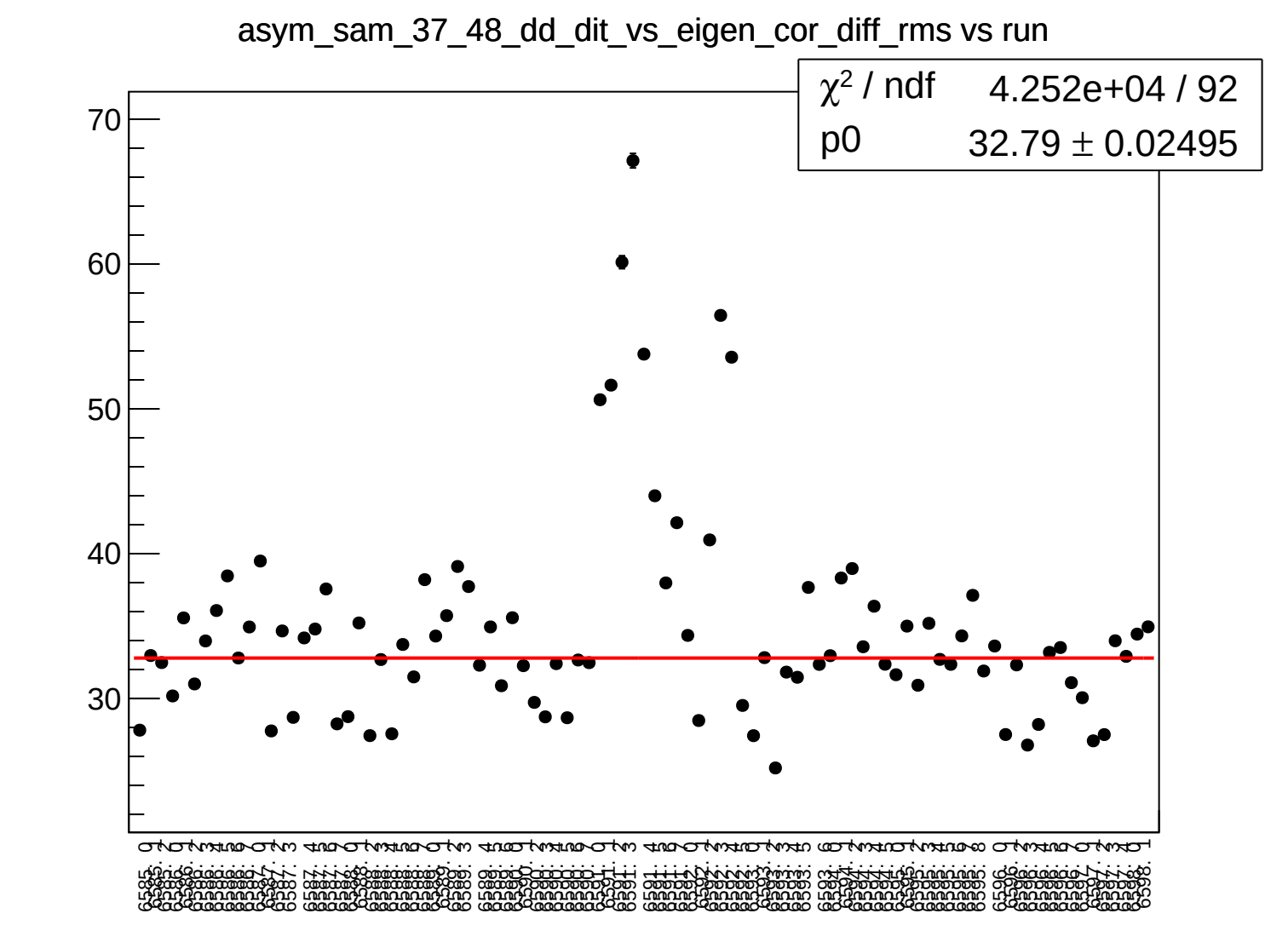

pull1D
Entries 93
Mean 0.003249
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

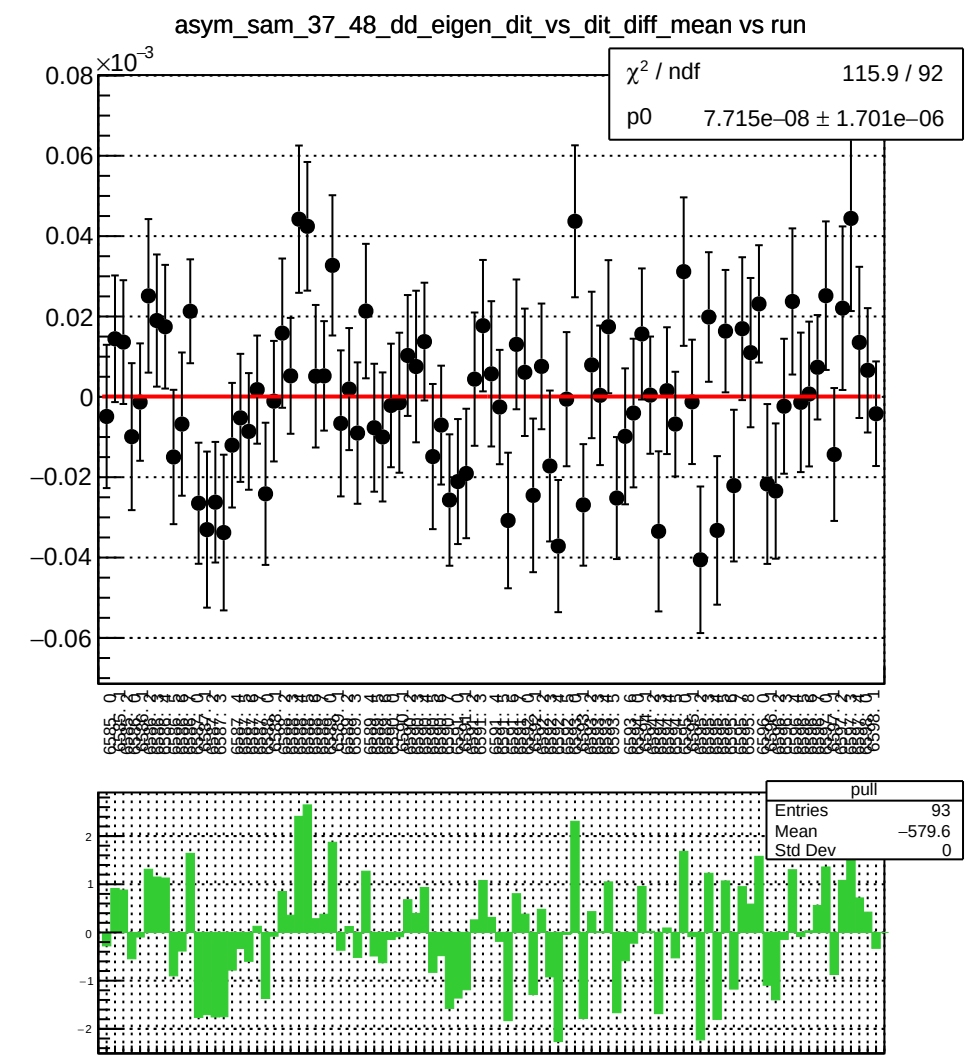

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.255e+06 / 92
p0 4.591e−12 ± 6.396e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

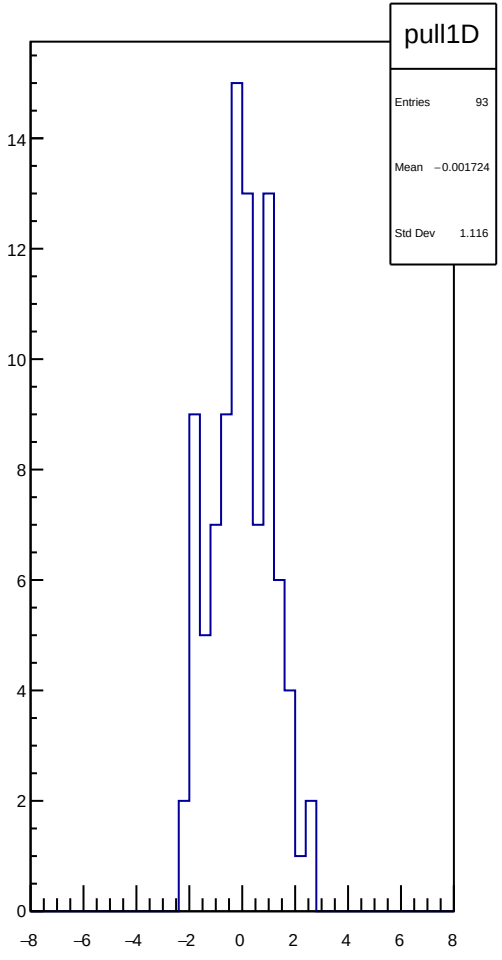

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 92
p0 −0.0331 ± 0.03528
pull
Entries 93
Mean 78.39
Std Dev 0
pull1D
Entries 93
Mean −0.004548
Std Dev 1.041

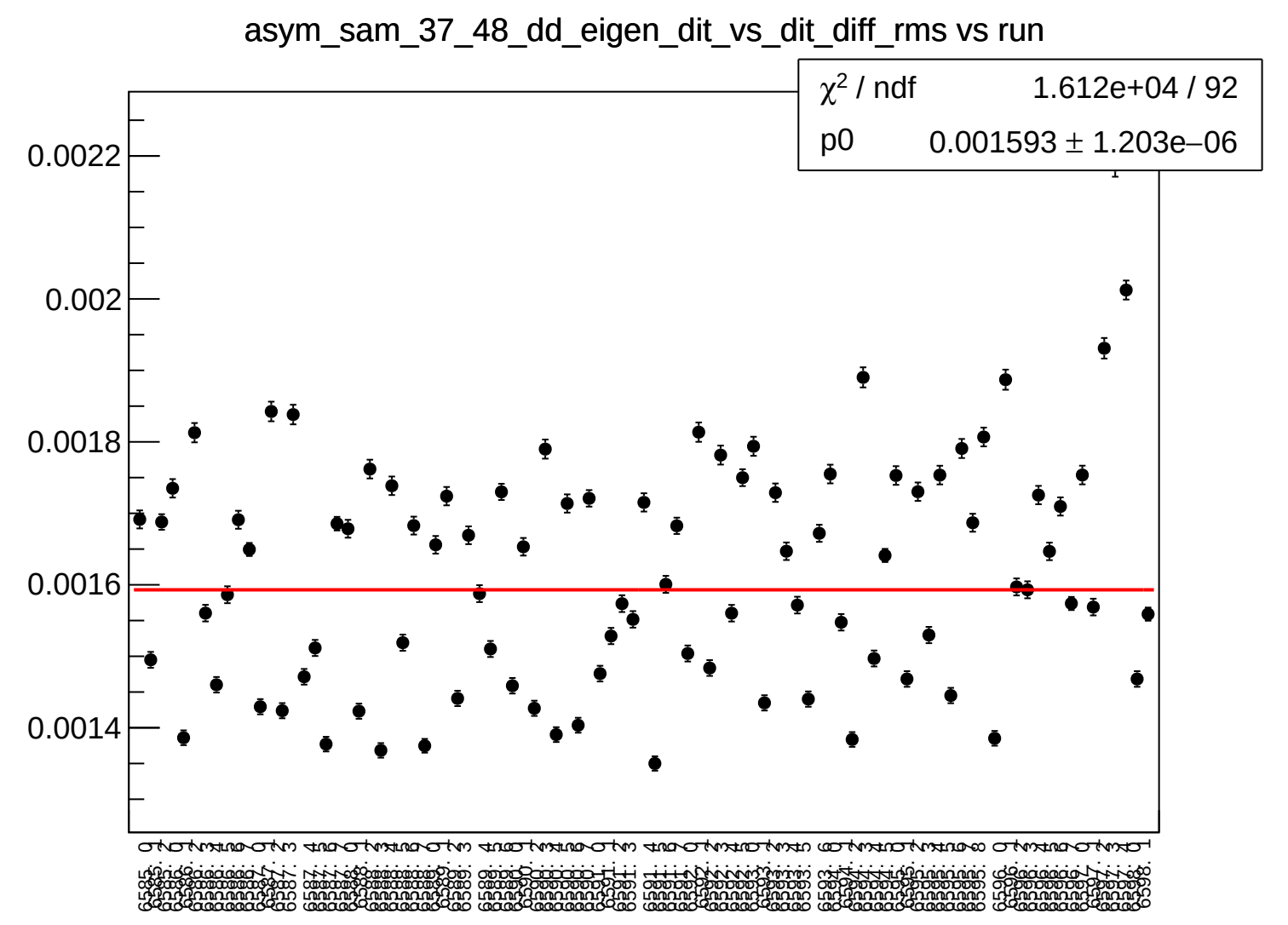

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.252e+04 / 92
p0 32.79 ± 0.02495
70
60
50
40
30

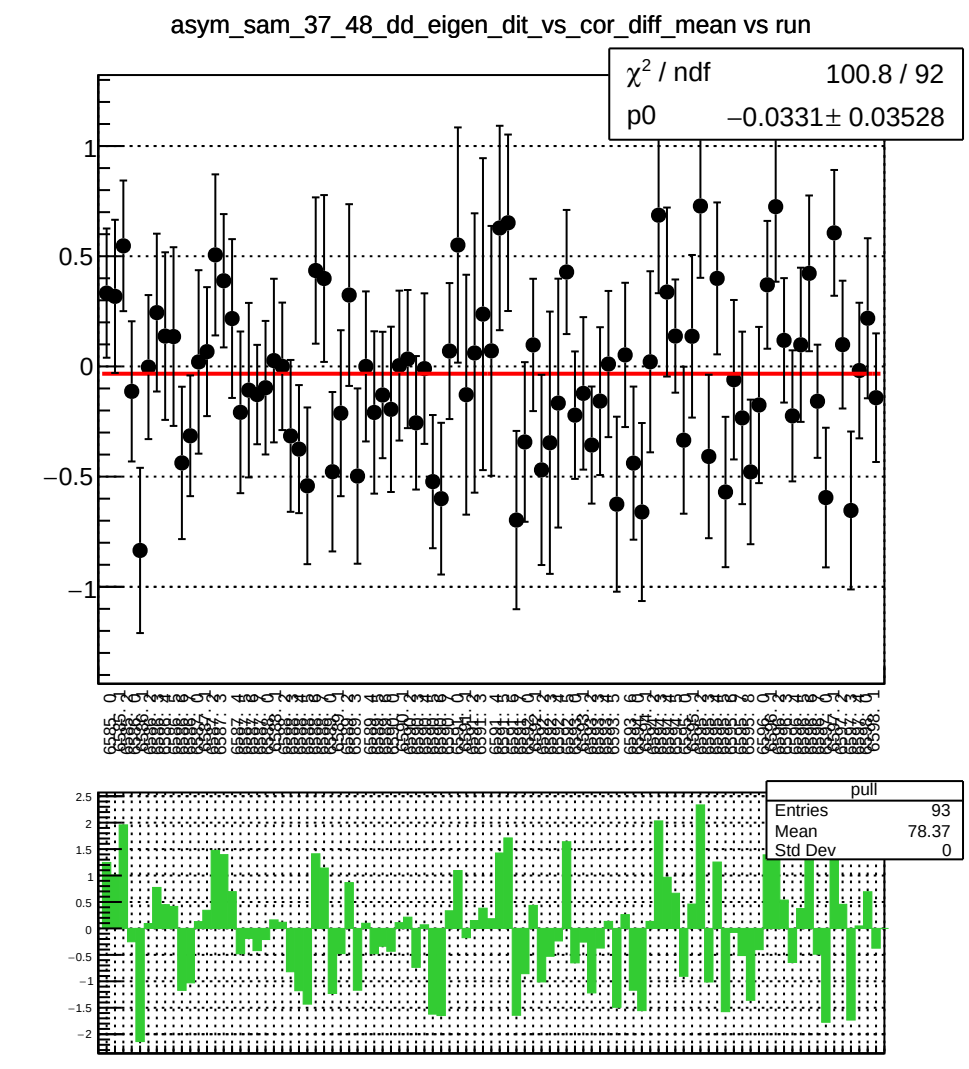

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 92
p0 −0.0331 ± 0.03528
pull
Entries 93
Mean 78.39
Std Dev 0
pull1D
Entries 93
Mean −0.004548
Std Dev 1.041

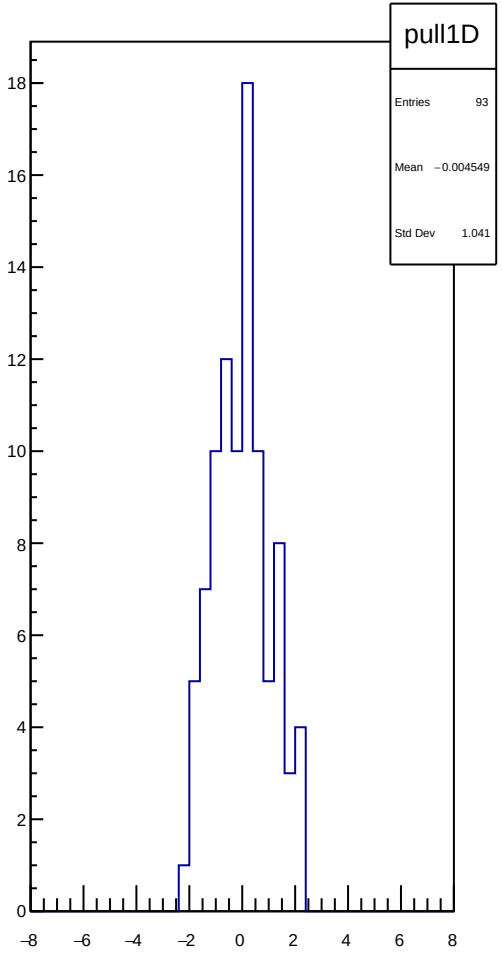

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.252e+04 / 92
p0 32.79 ± 0.02495
70
60
50
40
30

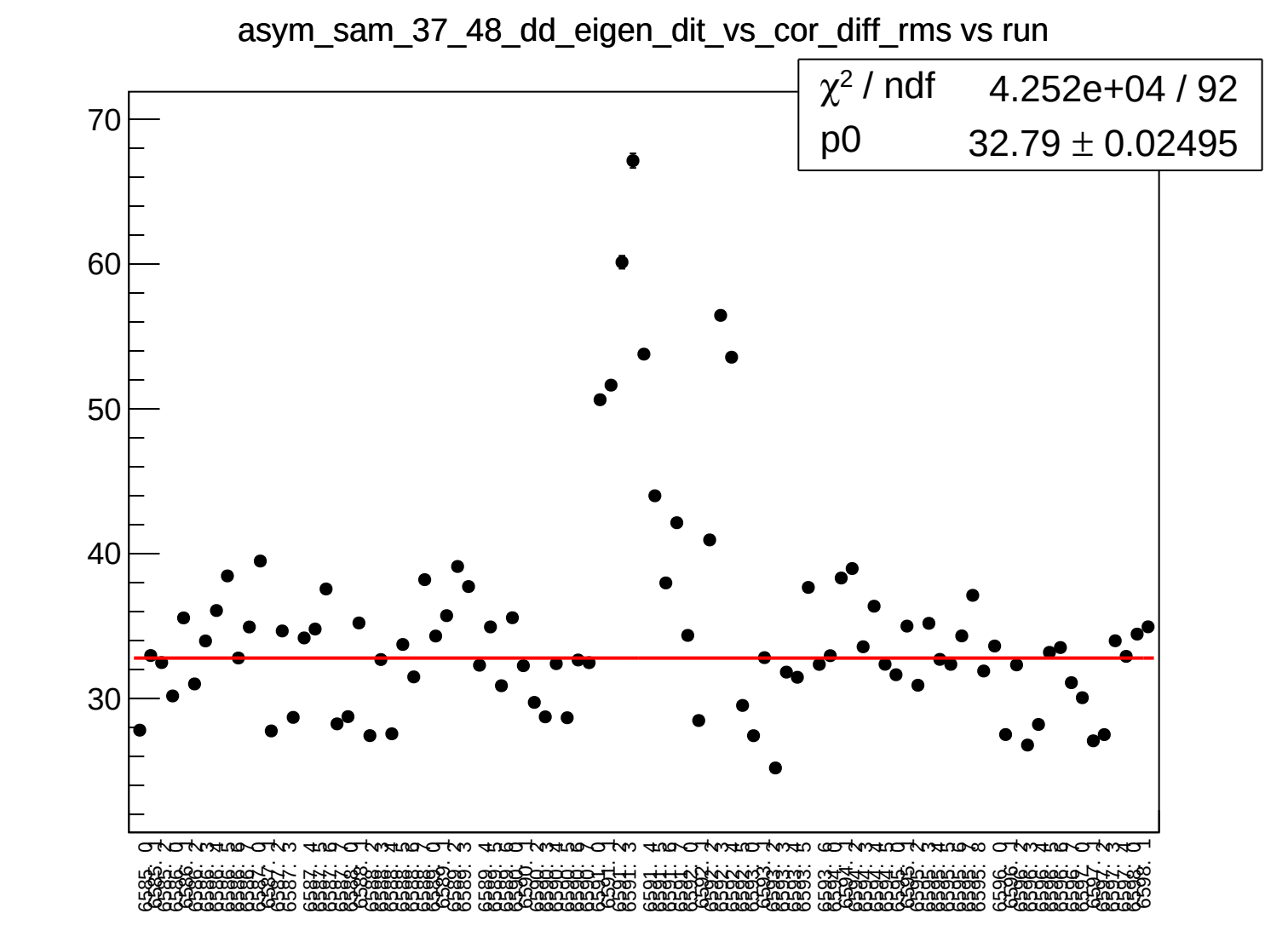

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.9 / 92
p0 7.715e−08 ± 1.701e−06
pull
Entries 93
Mean −579.6
Std Dev 0

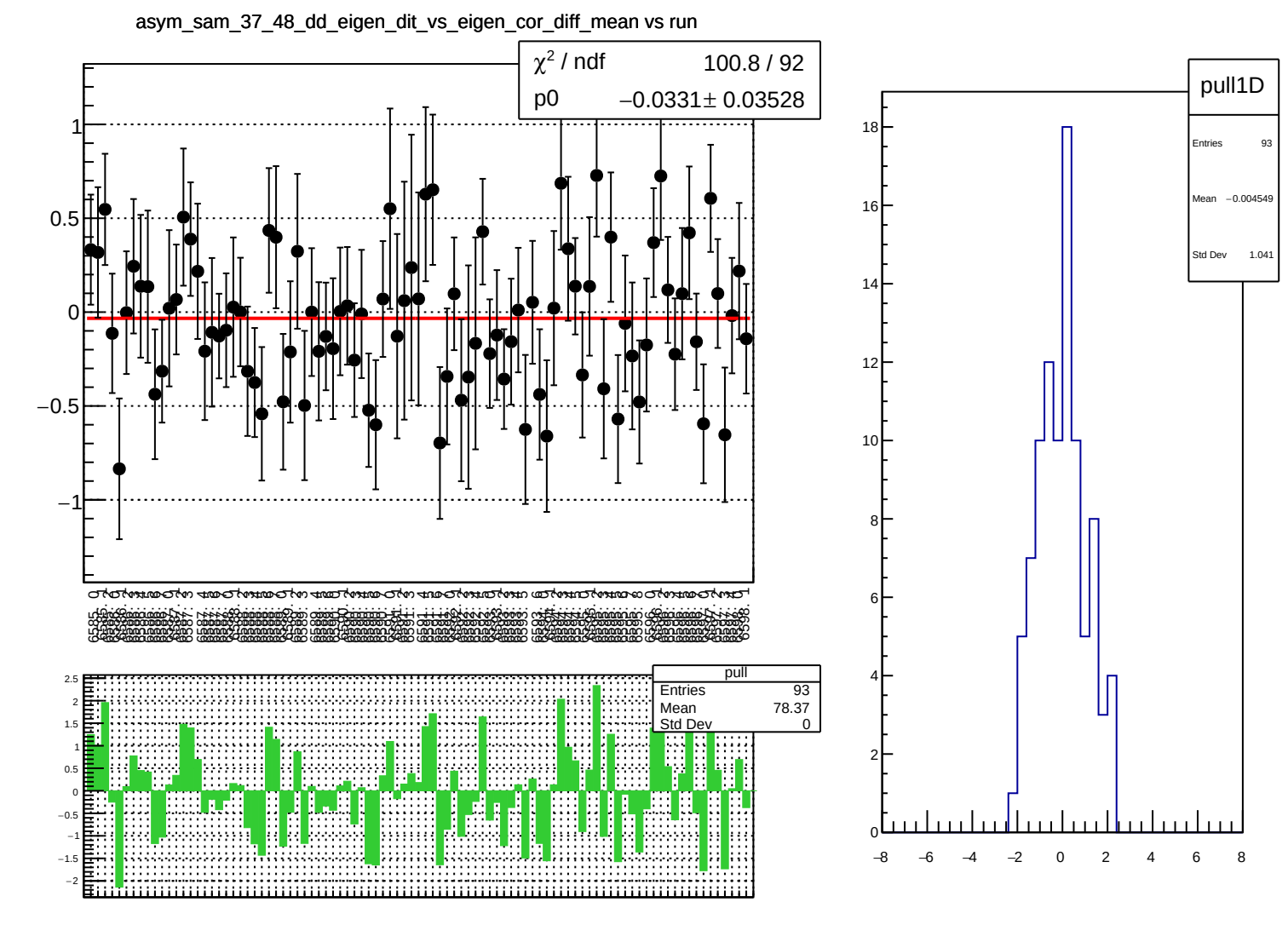

pull1D
Entries 93
Mean −0.001724
Std Dev 1.116

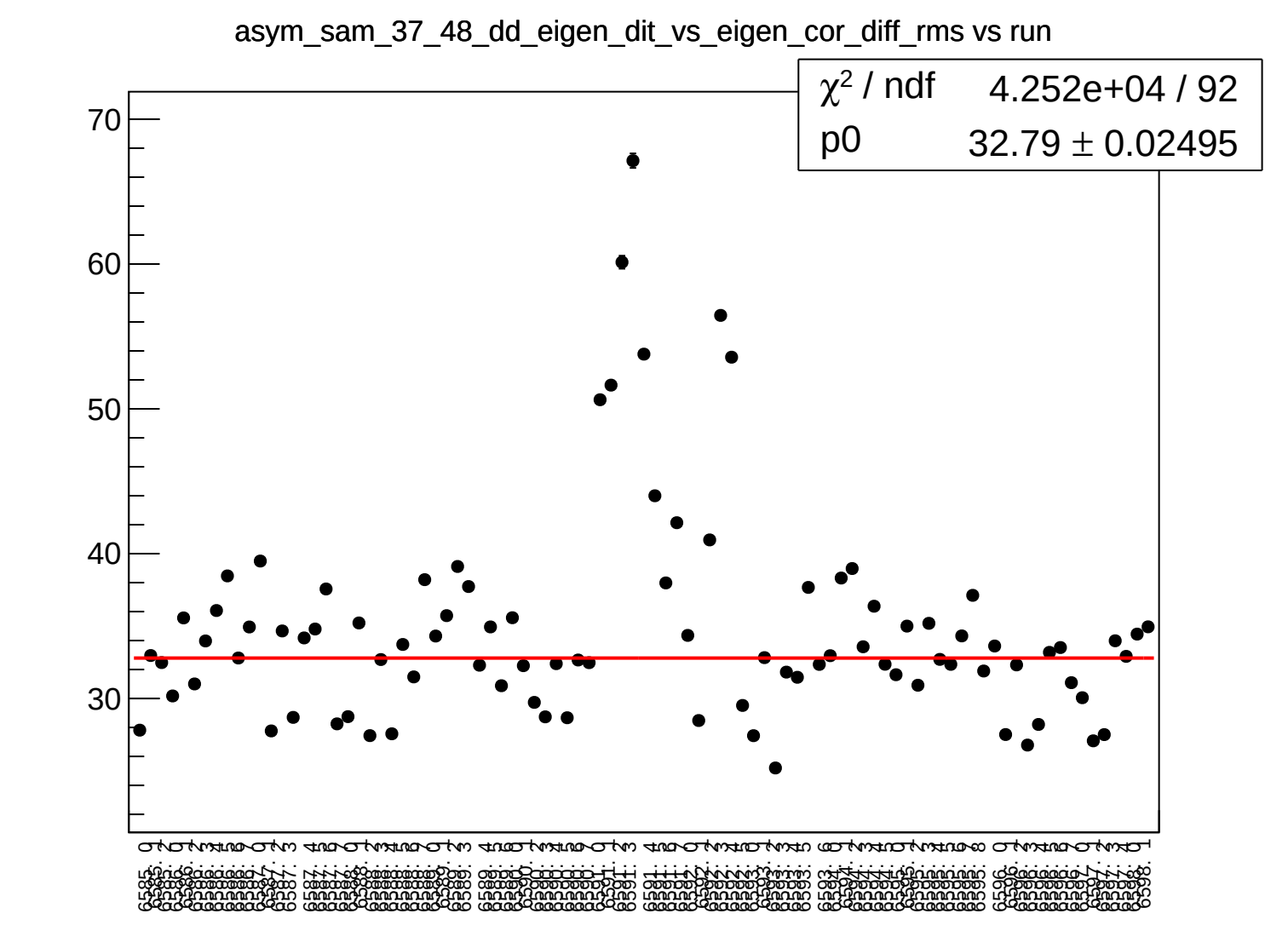

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.612e+04 / 92
p0 0.001593 ± 1.203e−06
0.0022
0.002
0.0018
0.0016
0.0014

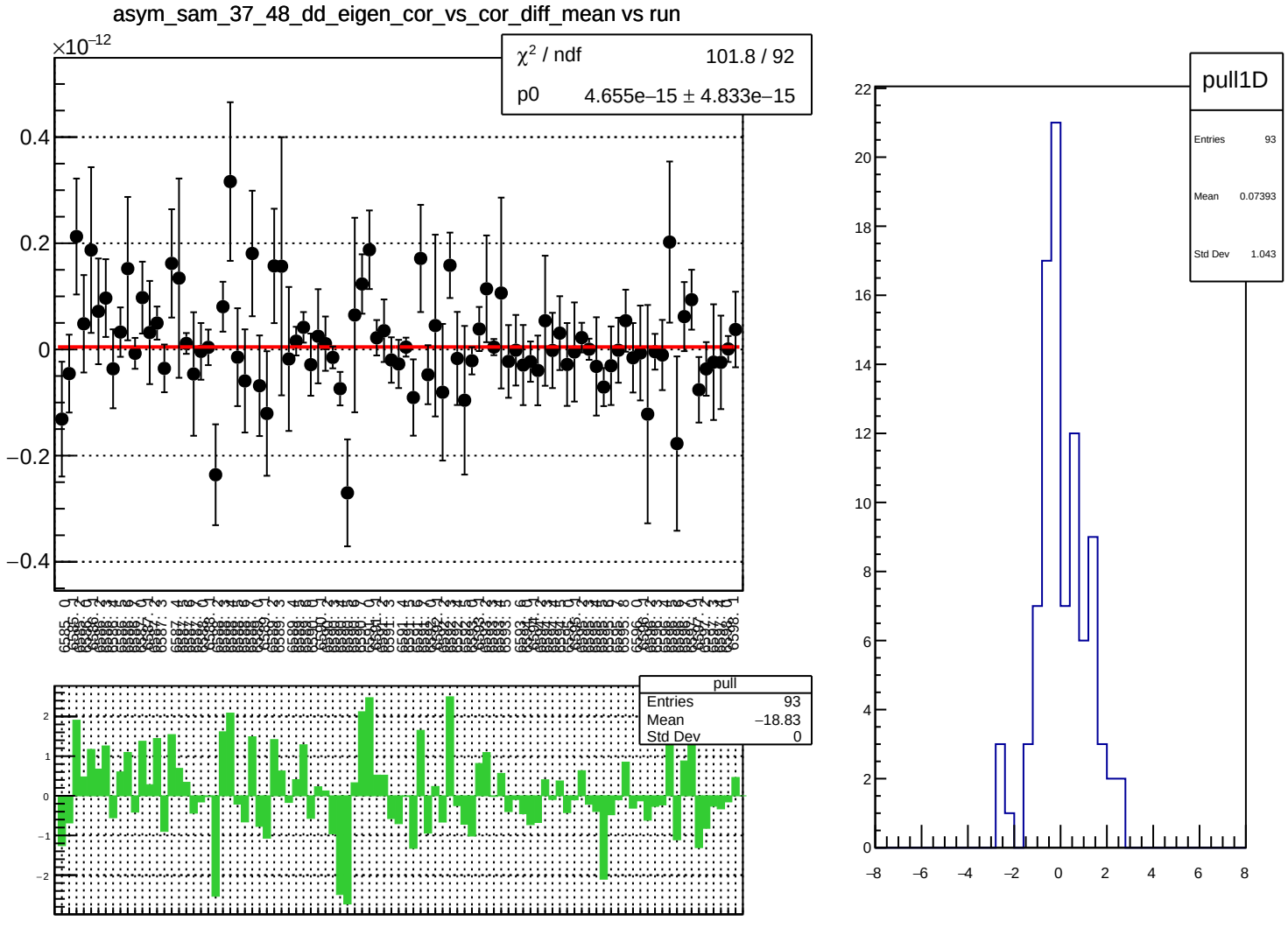

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 92
p0 −0.0331 ± 0.03528
pull
Entries 93
Mean 78.37
Std Dev 0

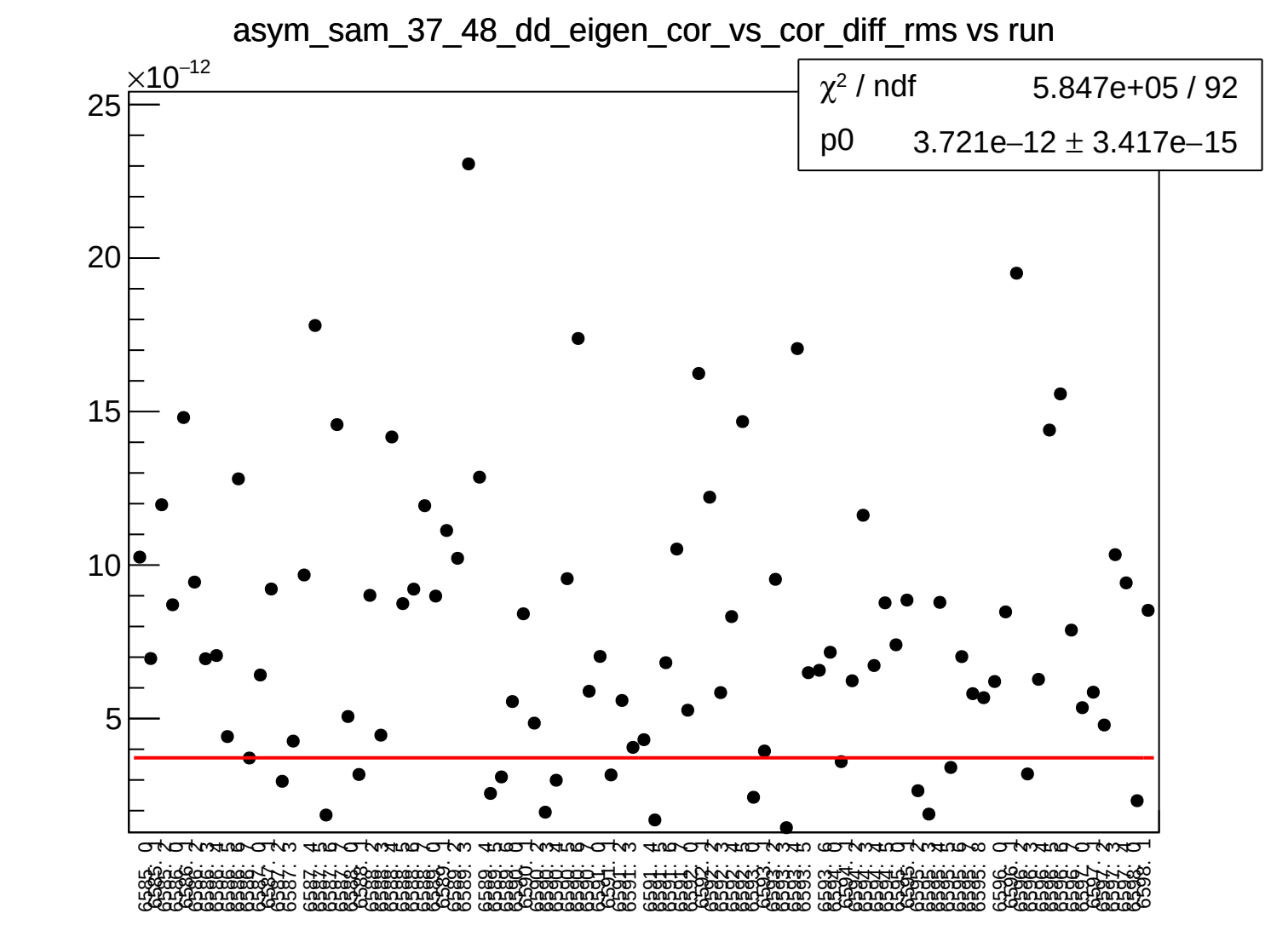

pull1D
Entries 93
Mean −0.004549
Std Dev 1.041

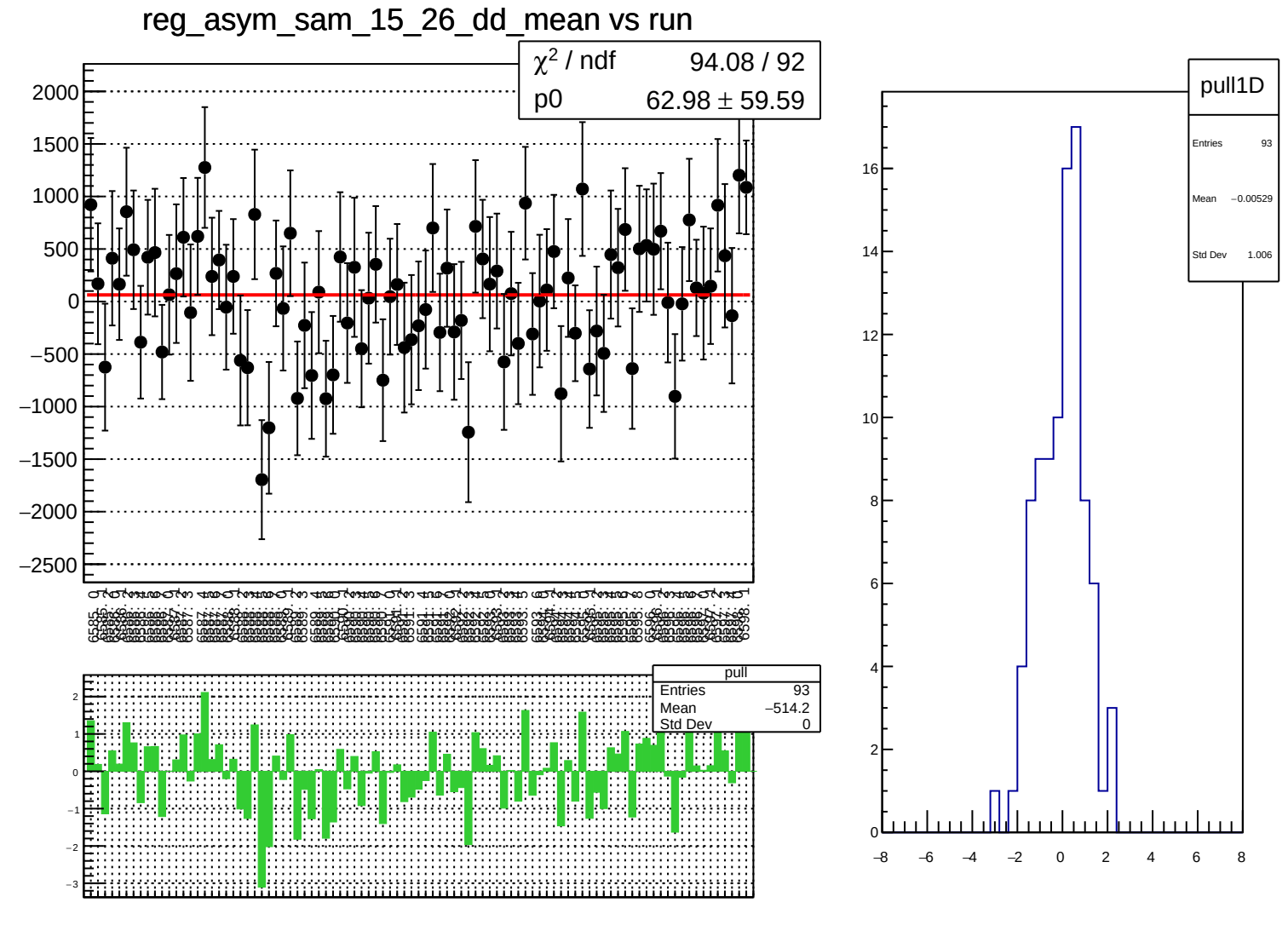

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.252e+04 / 92
p0 32.79 ± 0.02495
70
60
50
40
30

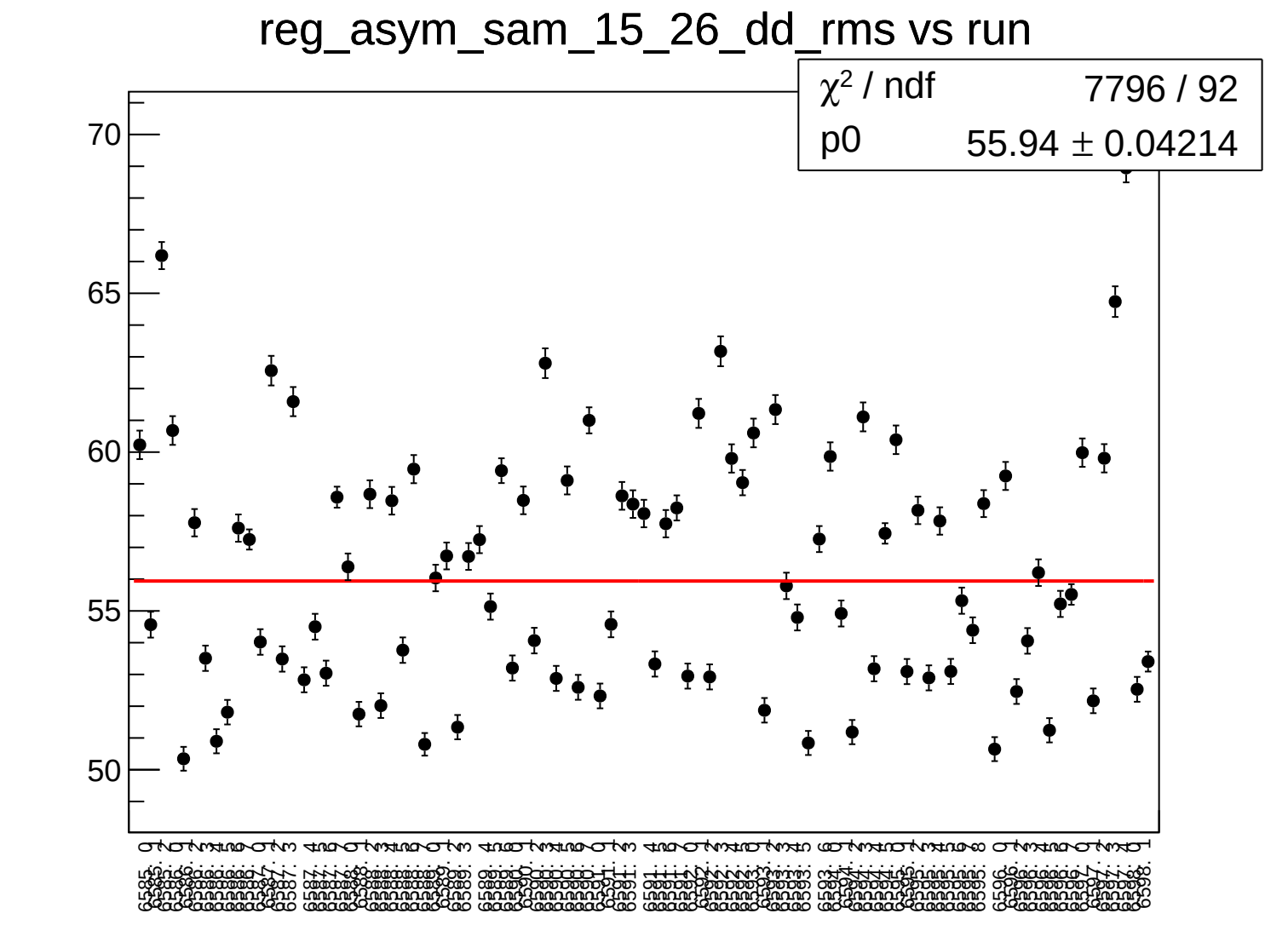

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 92
p0 −0.0331 ± 0.03528
pull
Entries 93
Mean 78.37
Std Dev 0
pull1D
Entries 93
Mean −0.004549
Std Dev 1.041

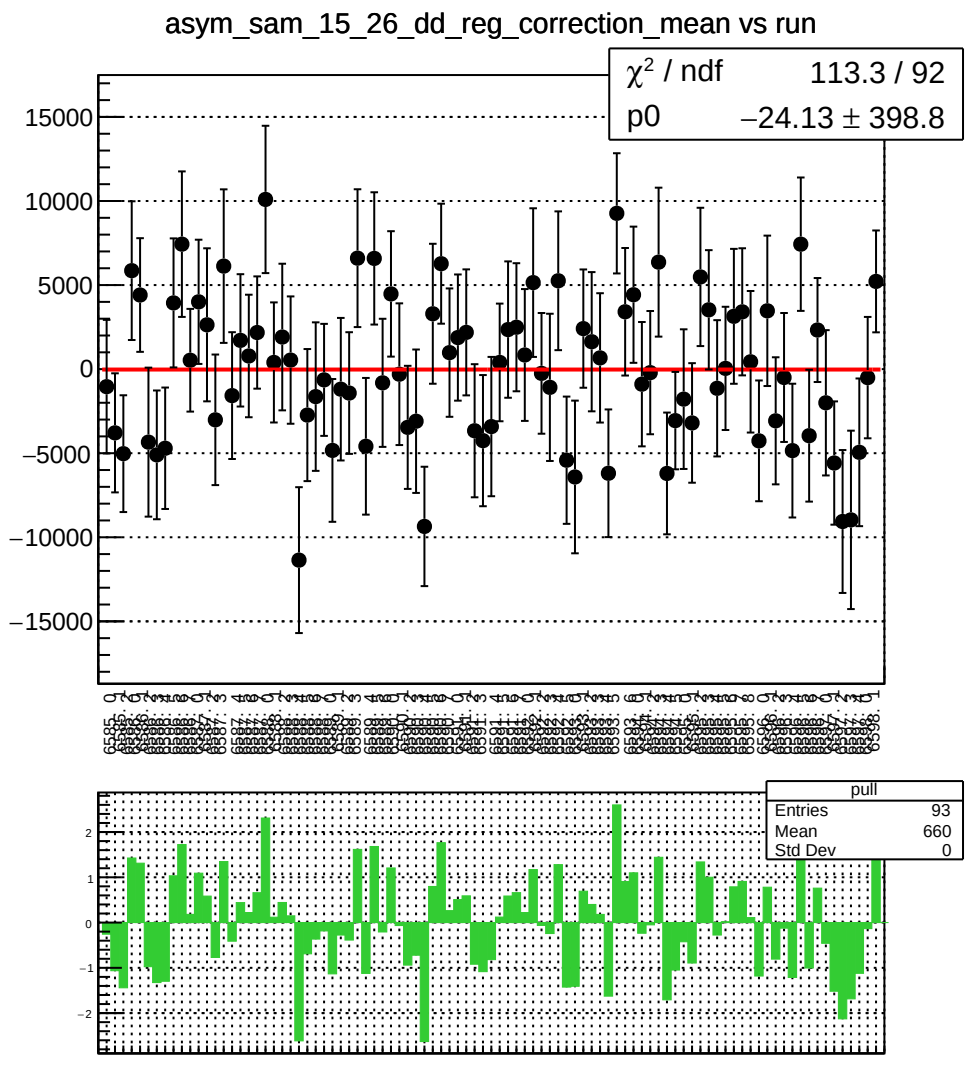

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.252e+04 / 92
p0 32.79 ± 0.02495
70
60
50
40
30

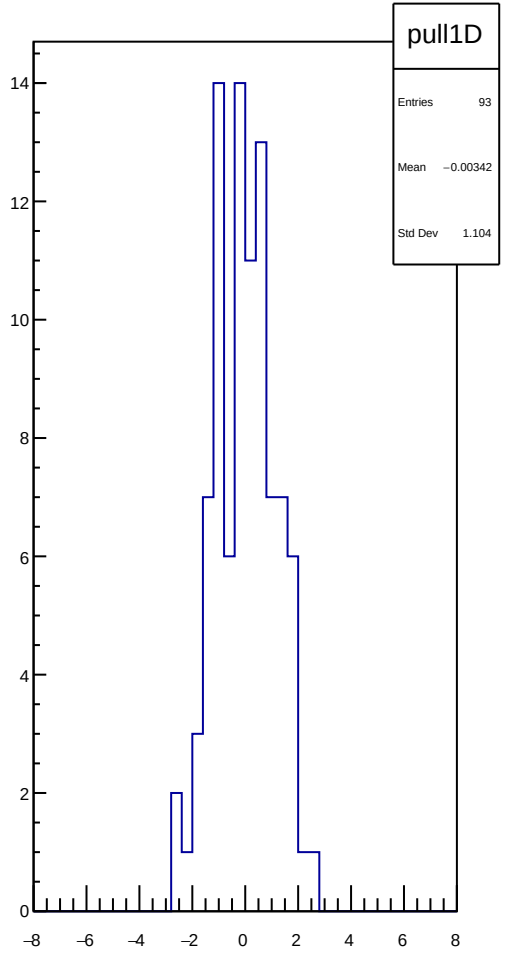

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.8 / 92
p0 4.655e−15 ± 4.833e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean −18.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.07393
Std Dev 1.043
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

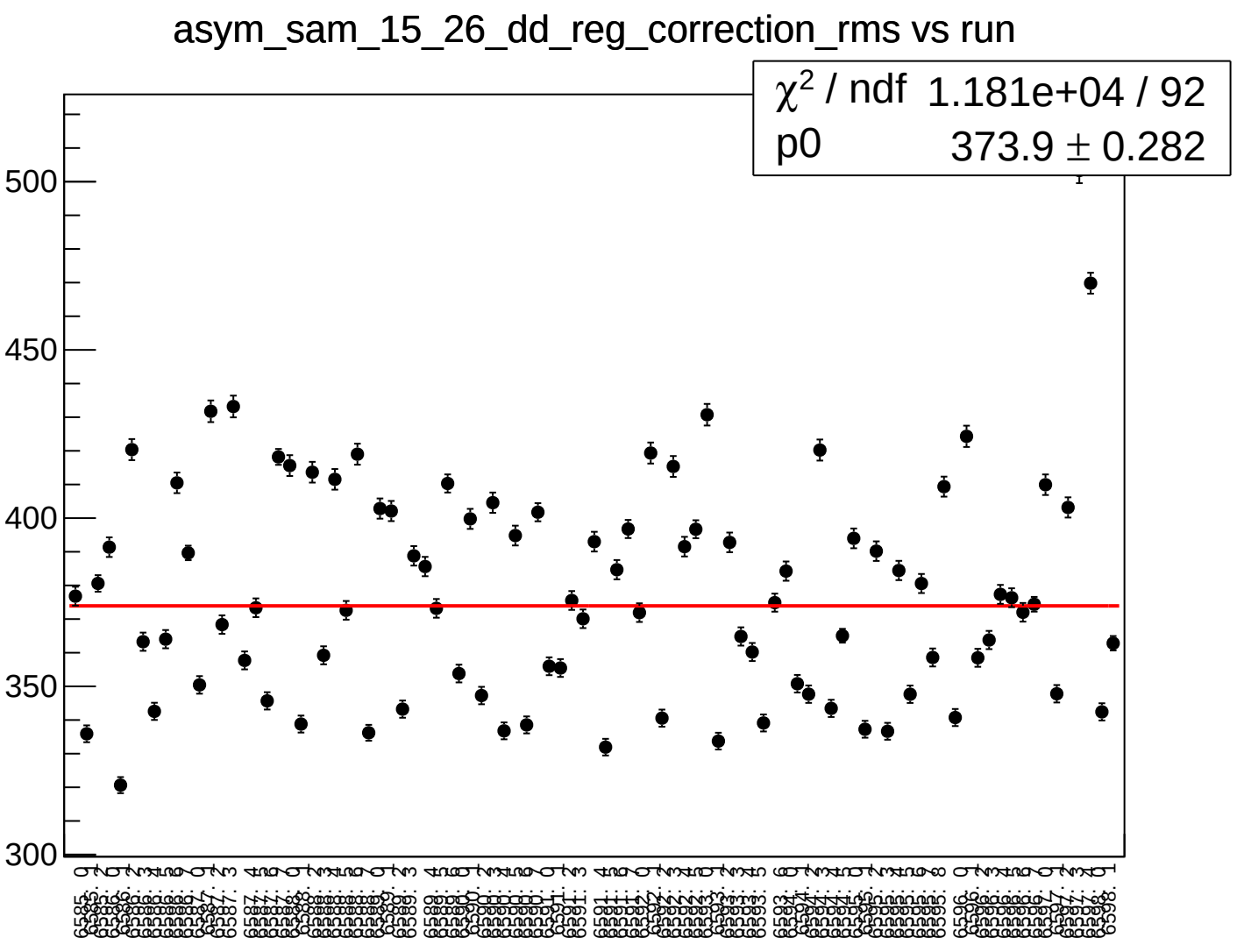

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
25
20
15
10
5
χ² / ndf 5.847e+05 / 92
p0 3.721e−12 ± 3.417e−15

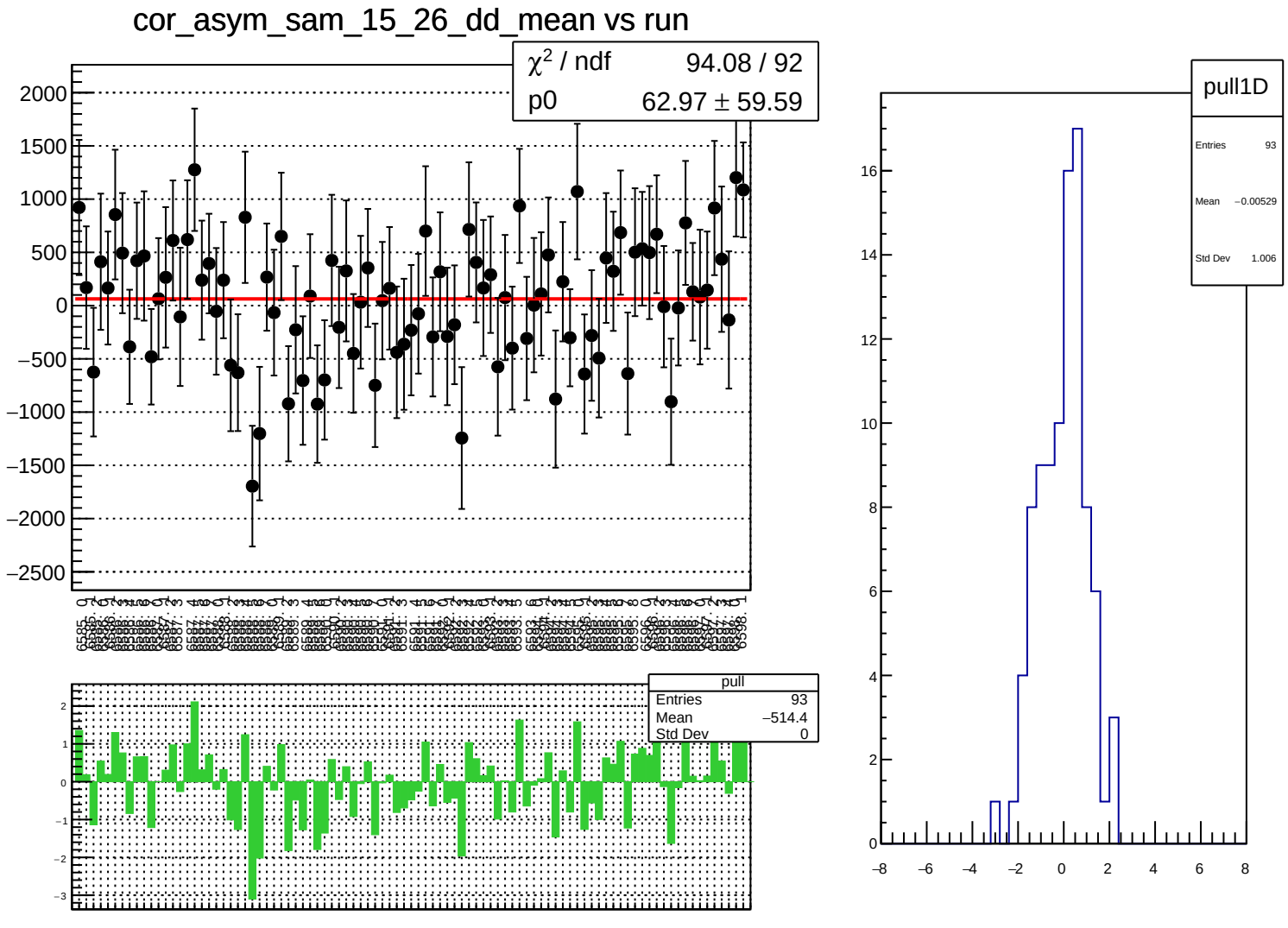

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 94.08 / 92
p0 62.98 ± 59.59
pull
Entries 93
Mean −514.2
Std Dev 0
pull1D
Entries 93
Mean −0.00529
Std Dev 1.006

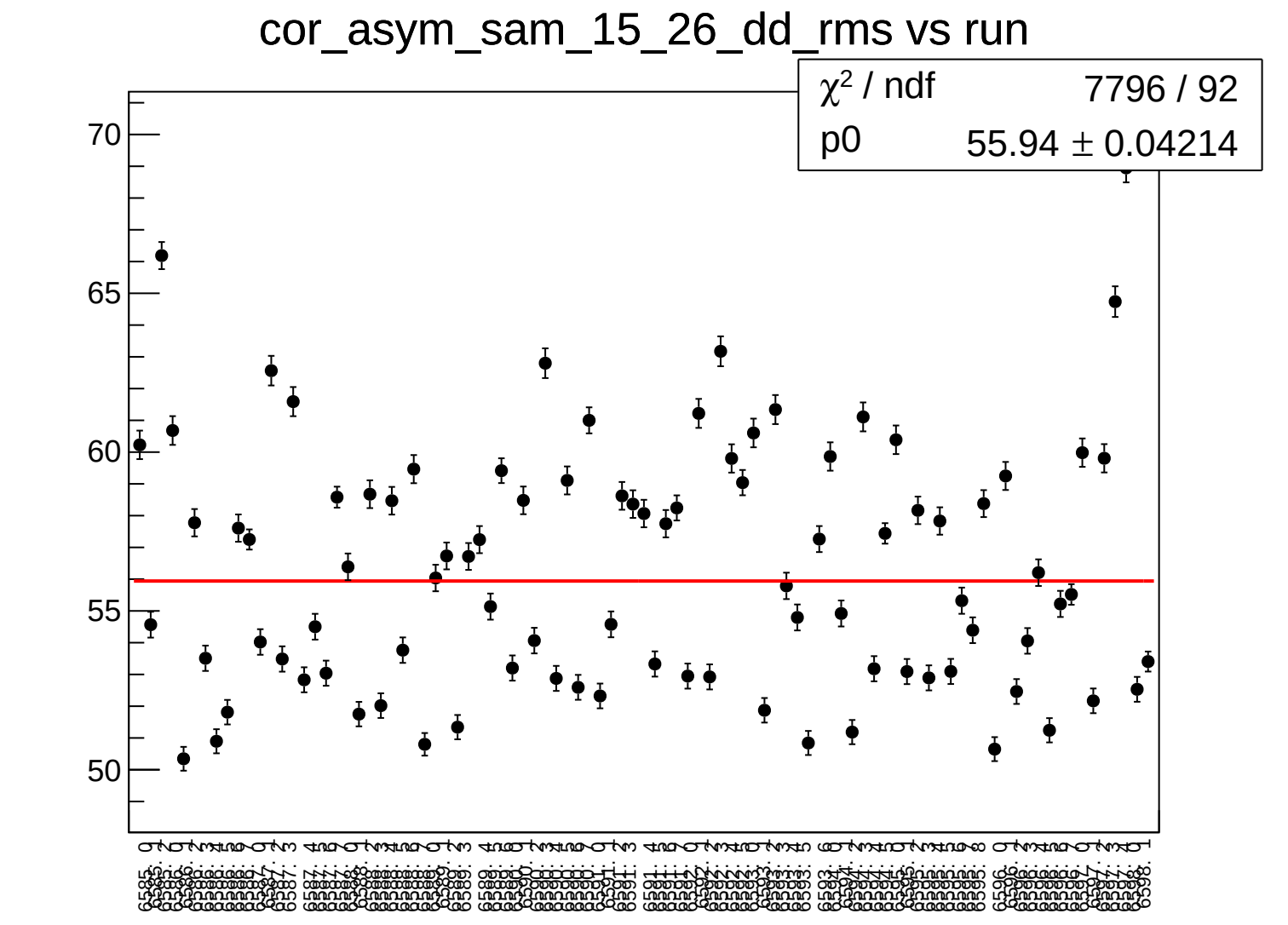

reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 7796 / 92
p0 55.94 ± 0.04214
70
65
60
55
50

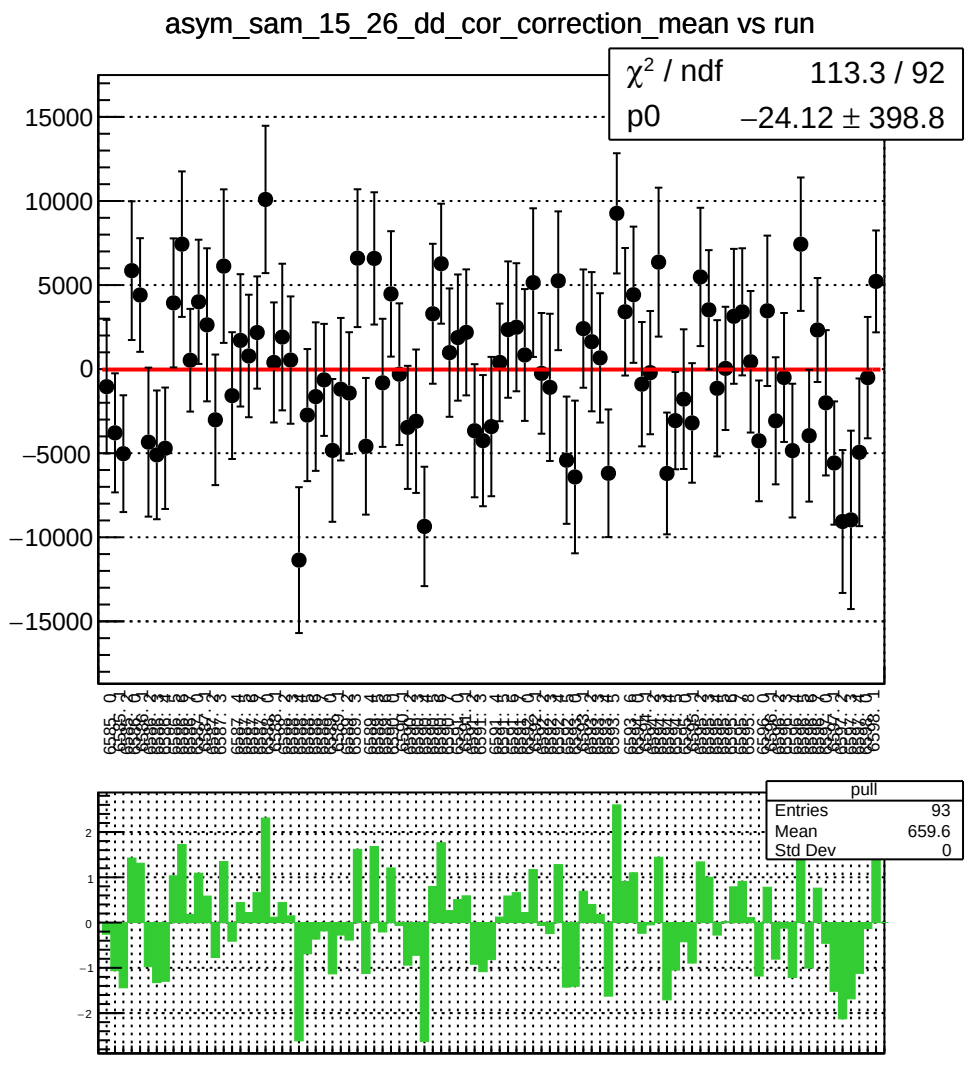

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 113.3 / 92
p0 −24.13 ± 398.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 660
Std Dev 0
2
1
0
−1
−2

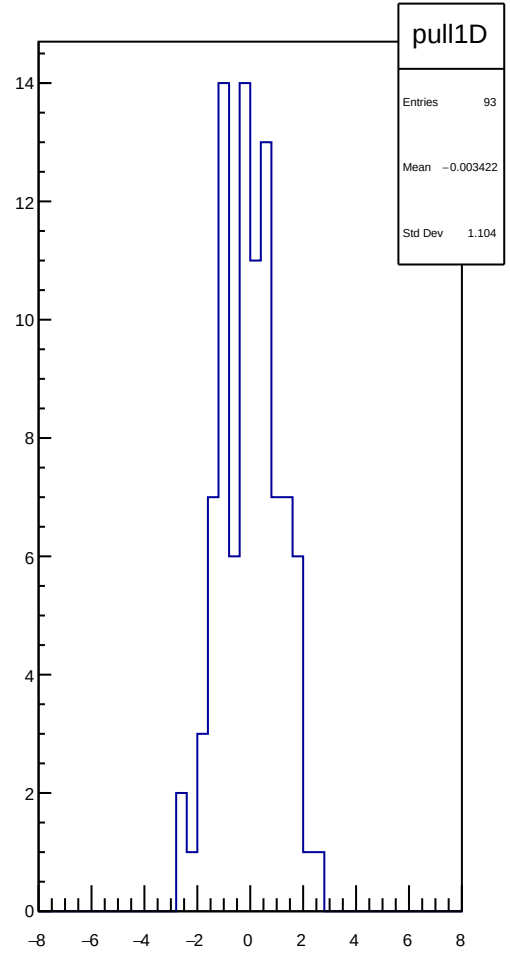

pull1D
Entries 93
Mean −0.00342
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

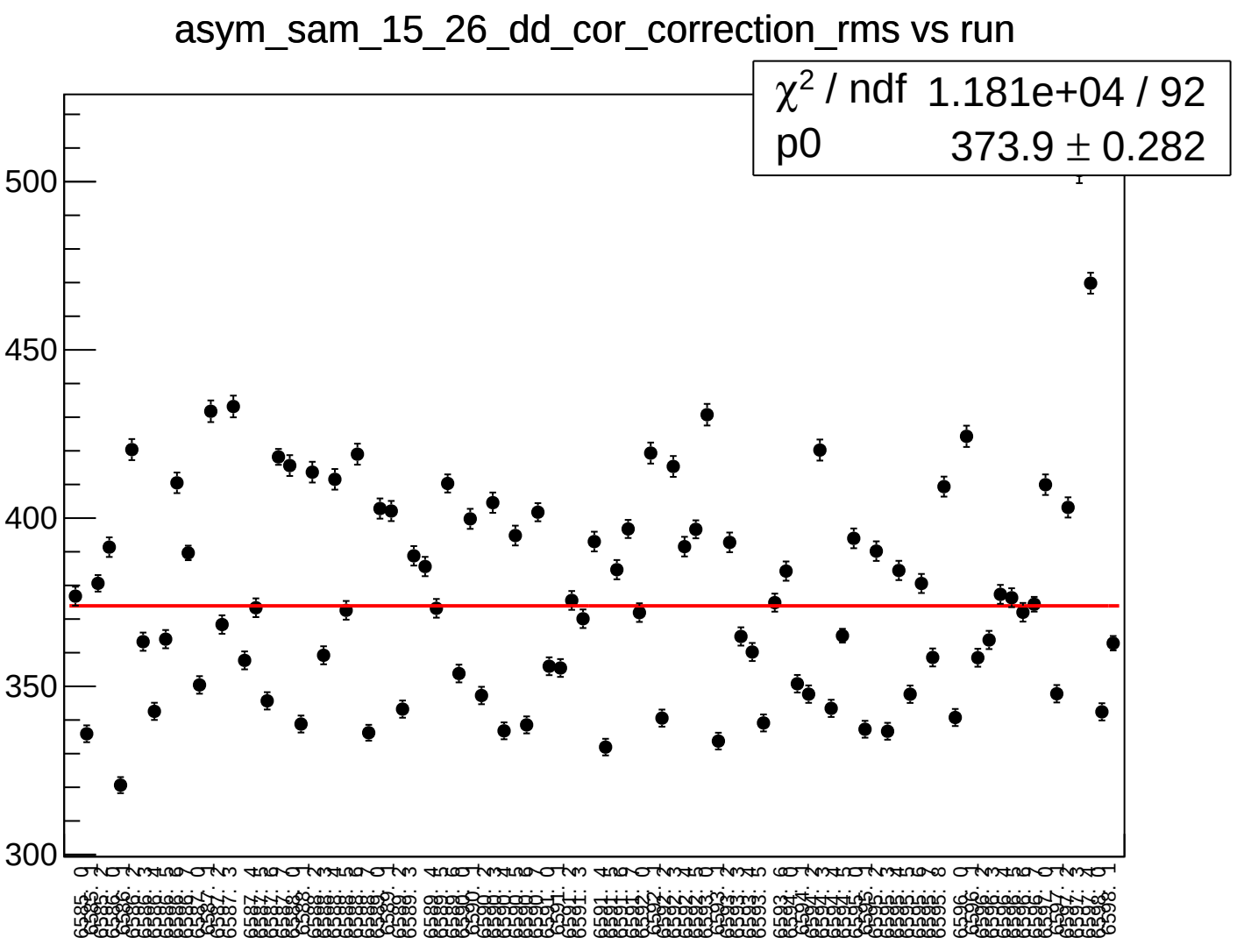

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.181e+04 / 92
p0 373.9 ± 0.282
500
450
400
350
300

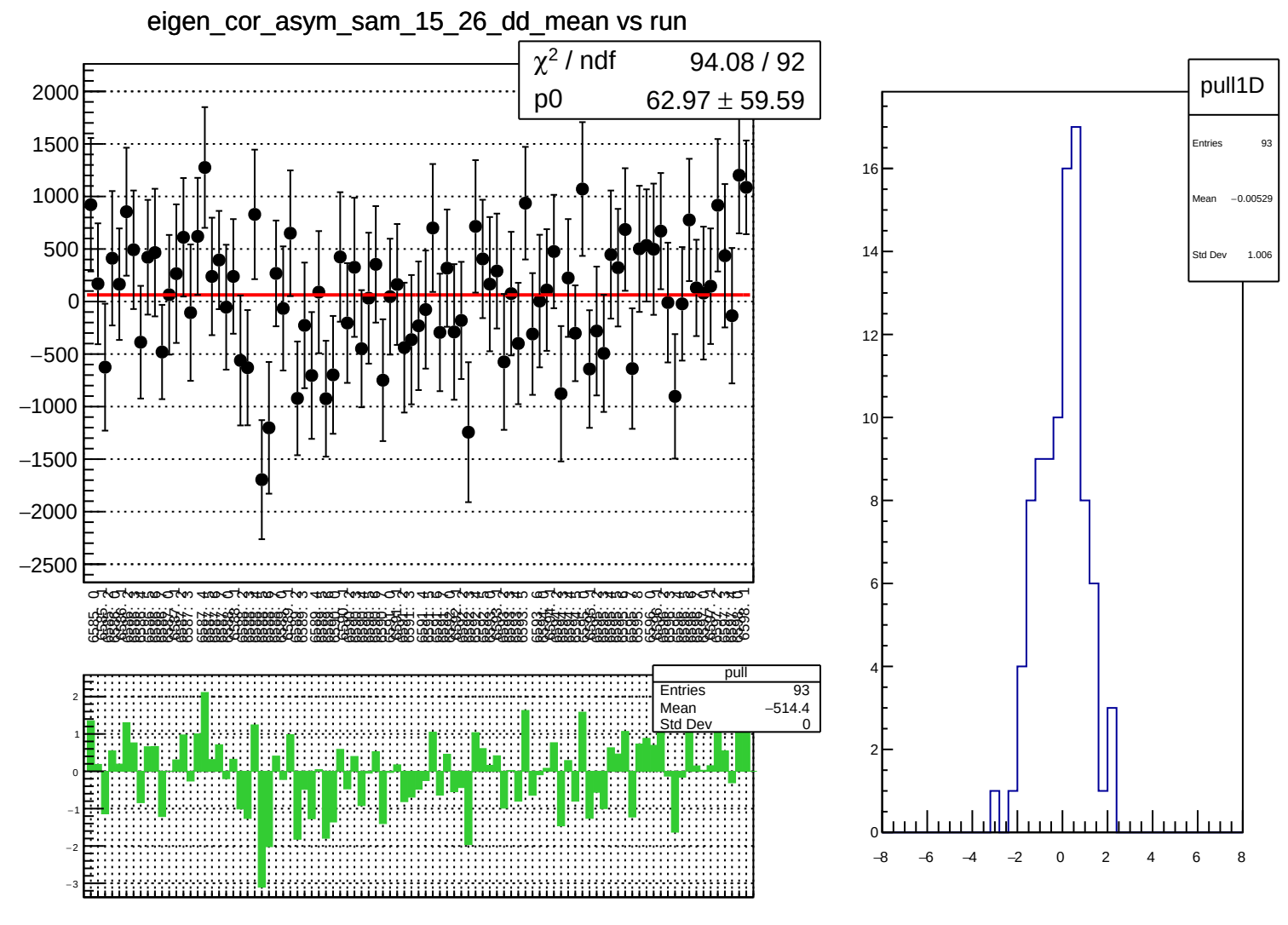

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 94.08 / 92
p0 62.97 ± 59.59
2000
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull
Entries 93
Mean −514.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.00529
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

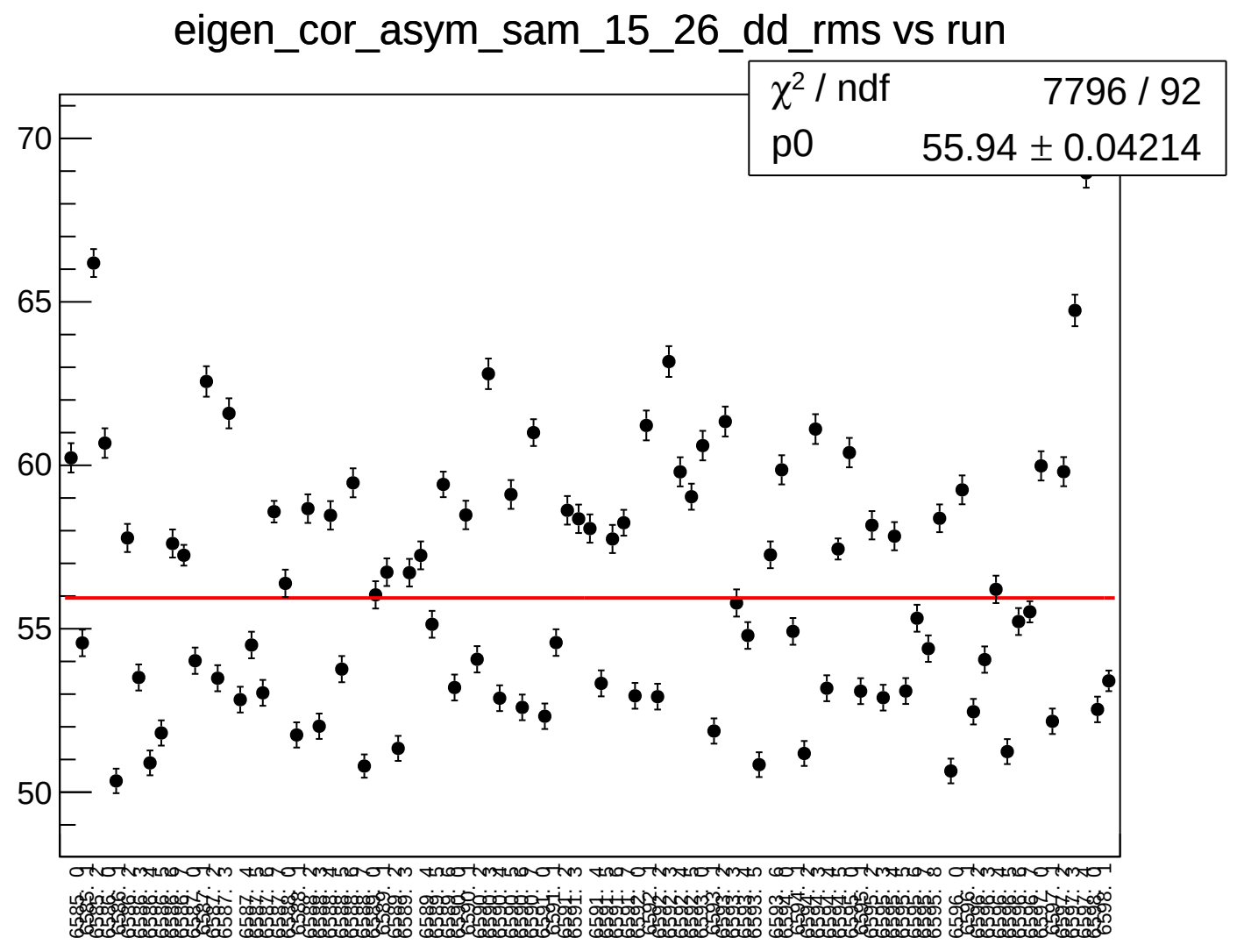

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 7796 / 92
p0 55.94 ± 0.04214
70
65
60
55
50

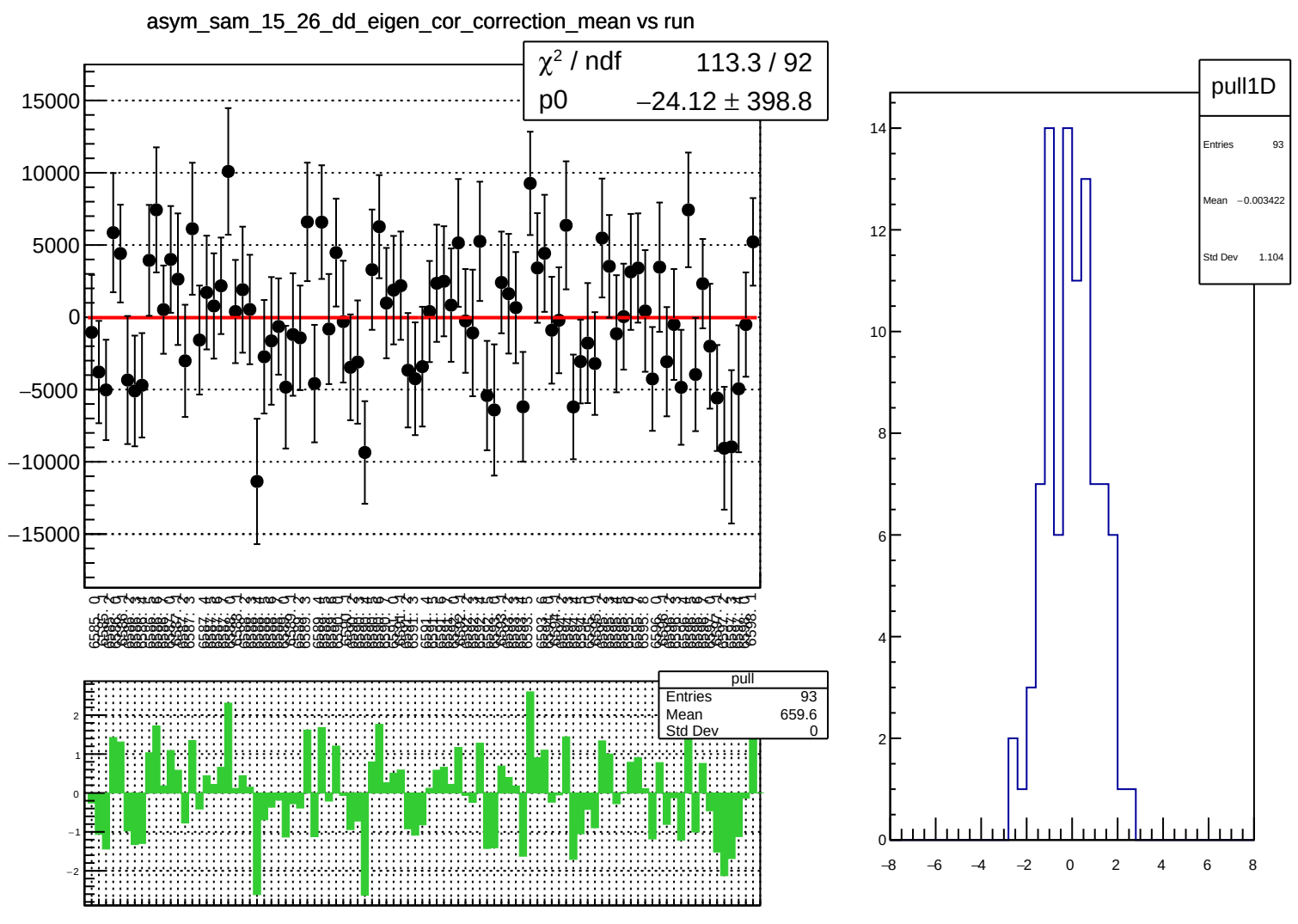

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 113.3 / 92
p0 −24.12 ± 398.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 659.6
Std Dev 0
2
1
0
−1
−2

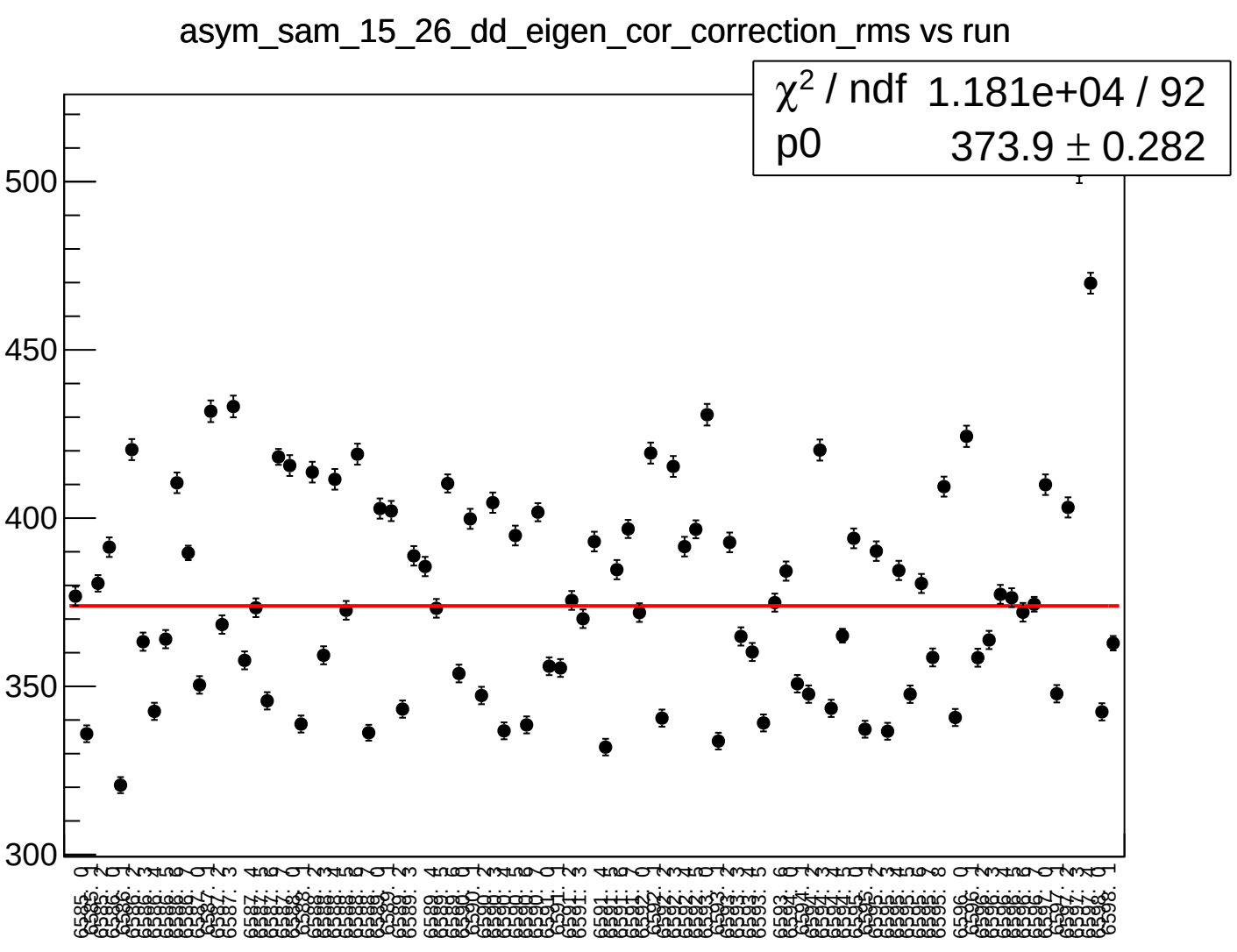

pull1D
Entries 93
Mean −0.003422
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

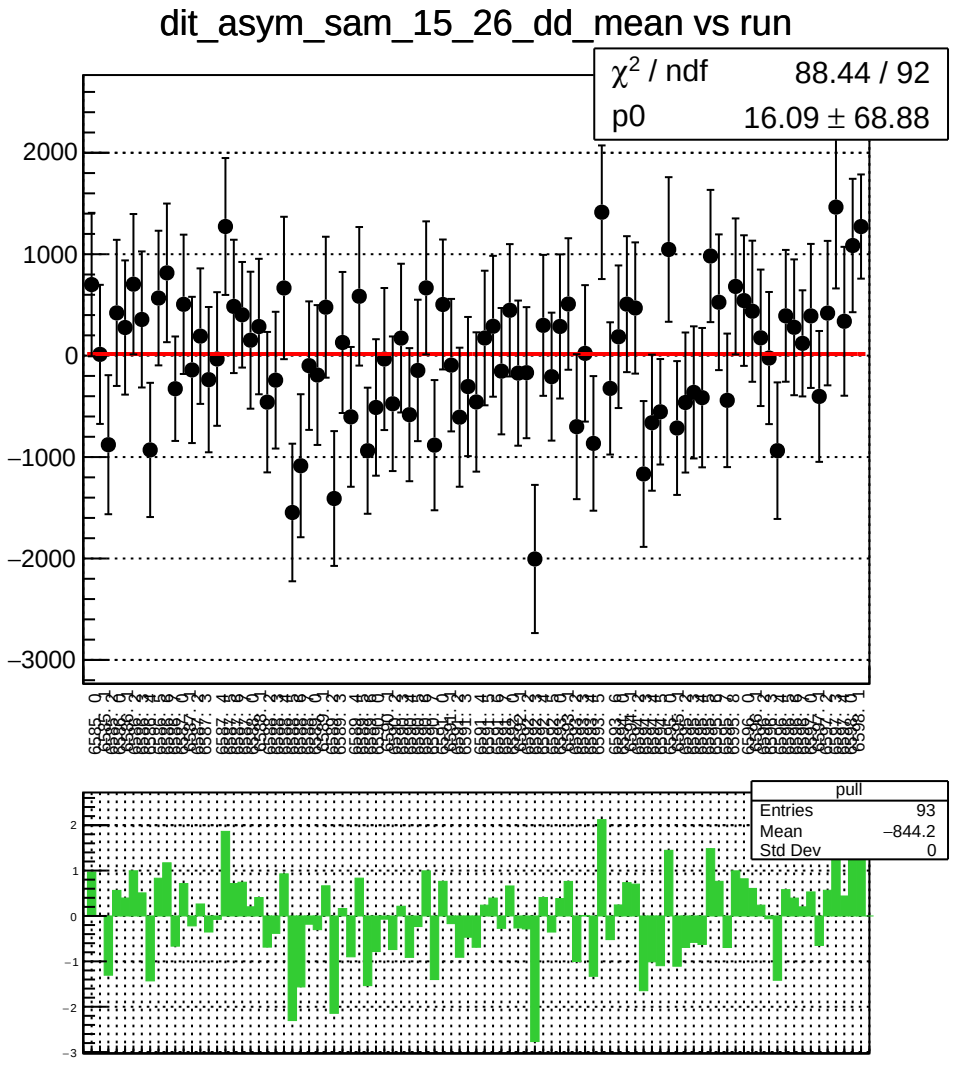

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.181e+04 / 92
p0 373.9 ± 0.282
500
450
400
350
300

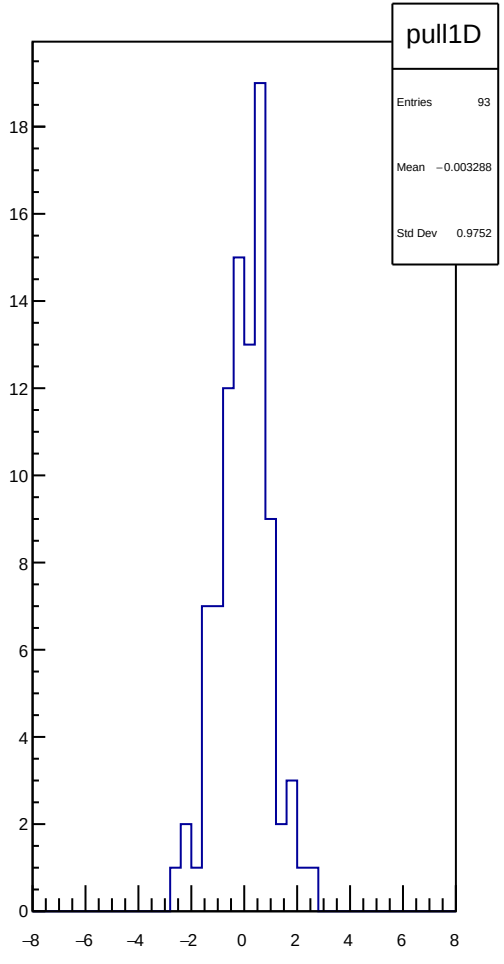

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 94.08 / 92
p0 62.97 ± 59.59
pull
Entries 93
Mean −514.4
Std Dev 0
pull1D
Entries 93
Mean −0.00529
Std Dev 1.006

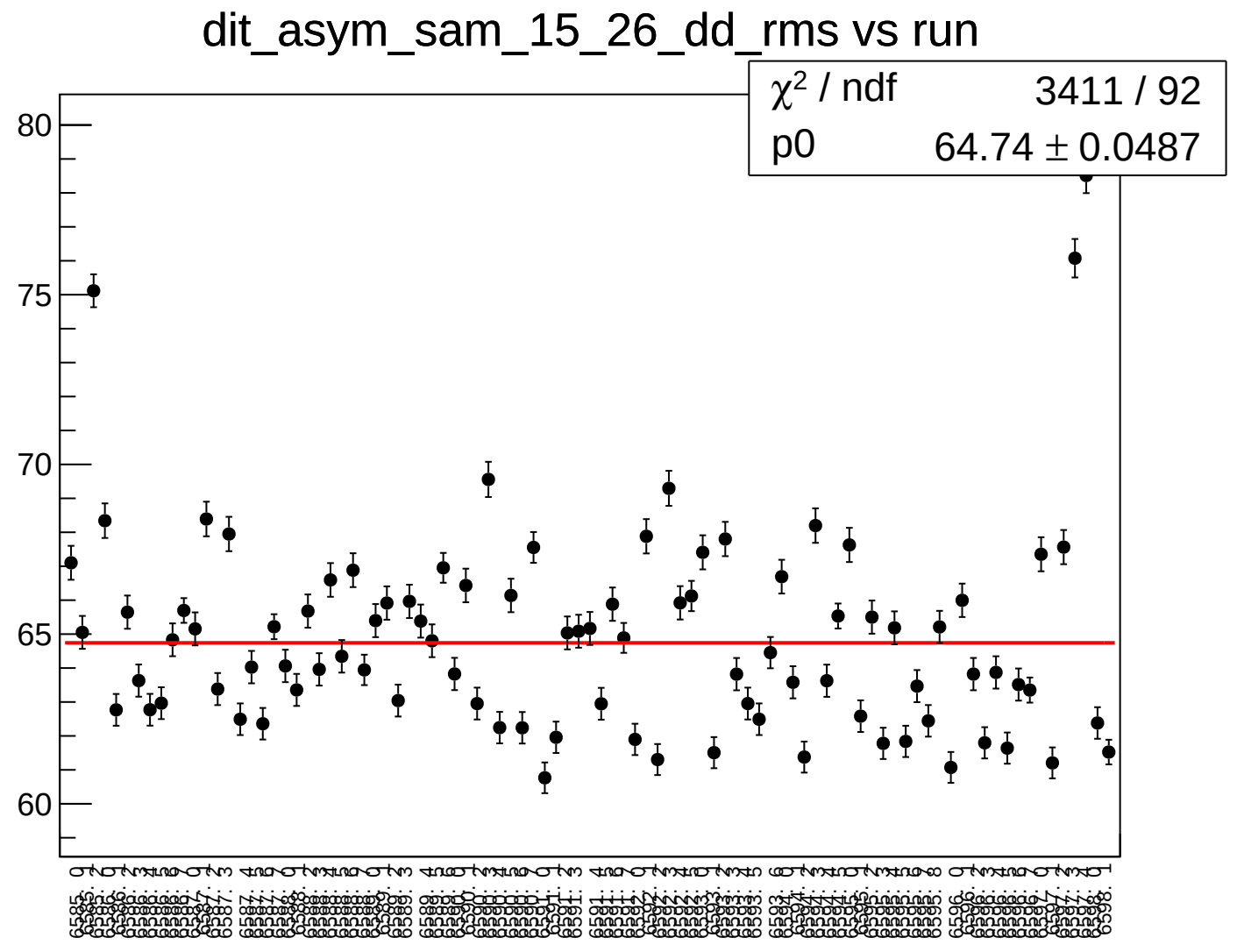

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 7796 / 92
p0 55.94 ± 0.04214
70
65
60
55
50

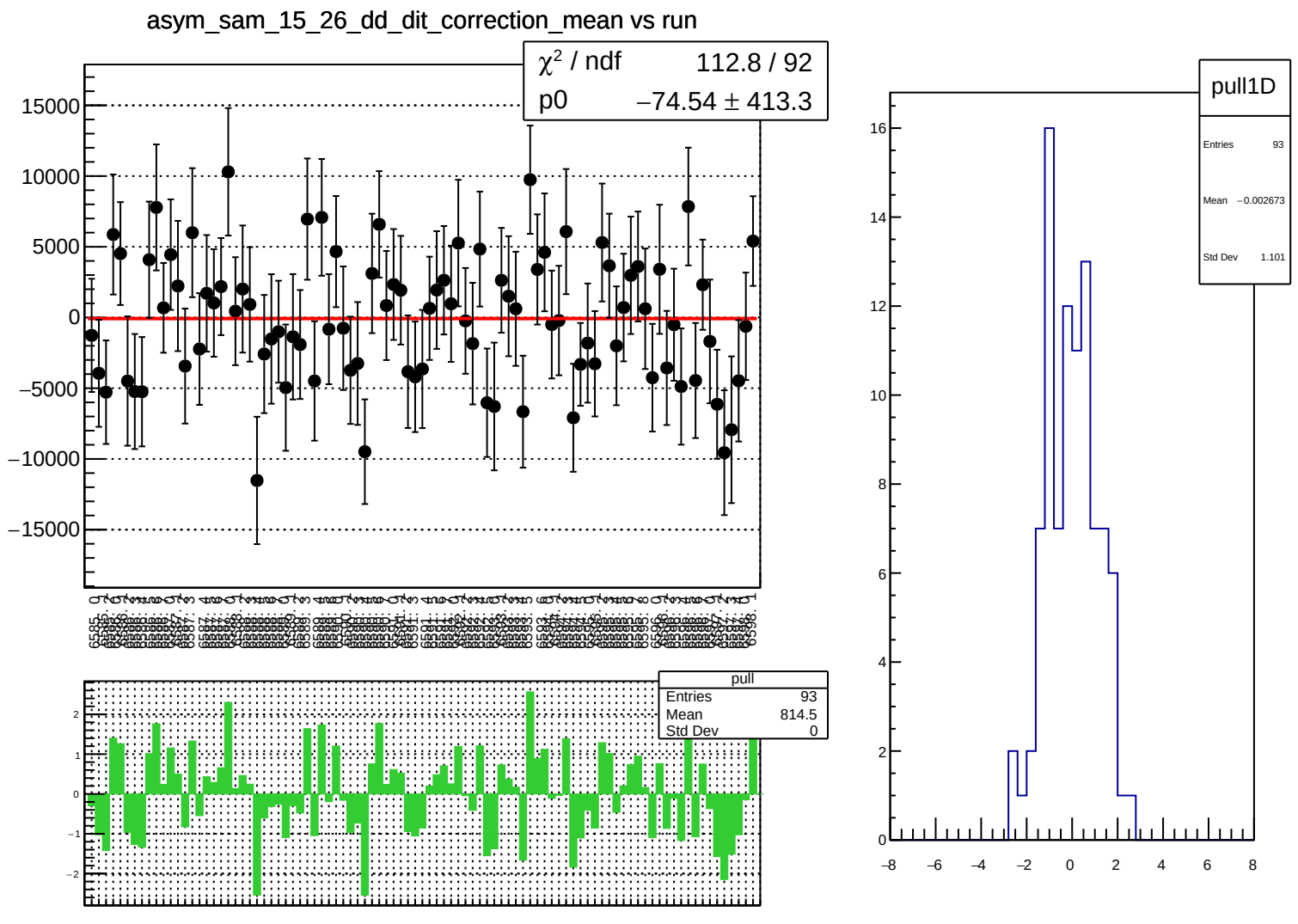

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.3 / 92
p0 −24.12 ± 398.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 659.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003422
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

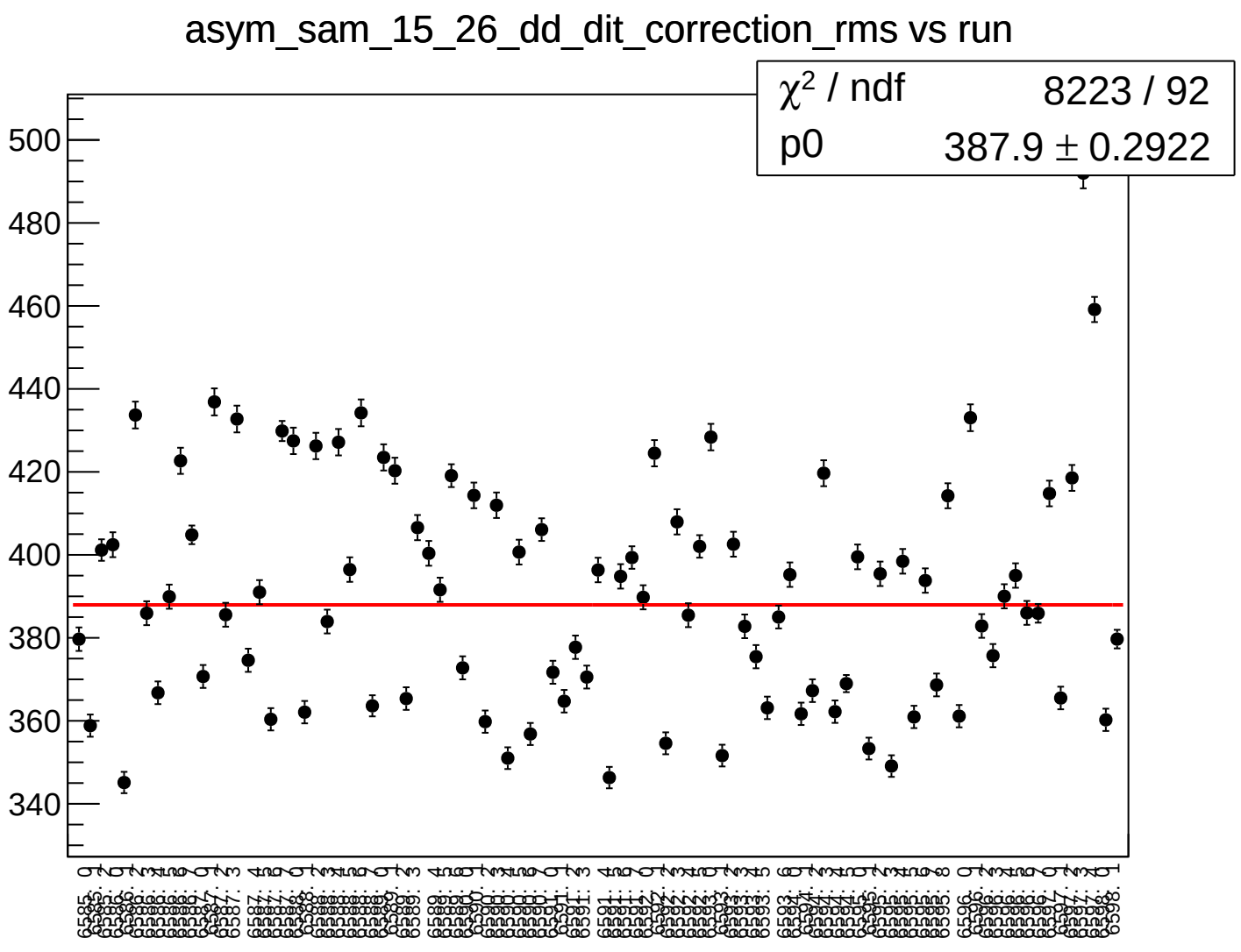

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.181e+04 / 92
p0 373.9 ± 0.282
500
450
400
350
300

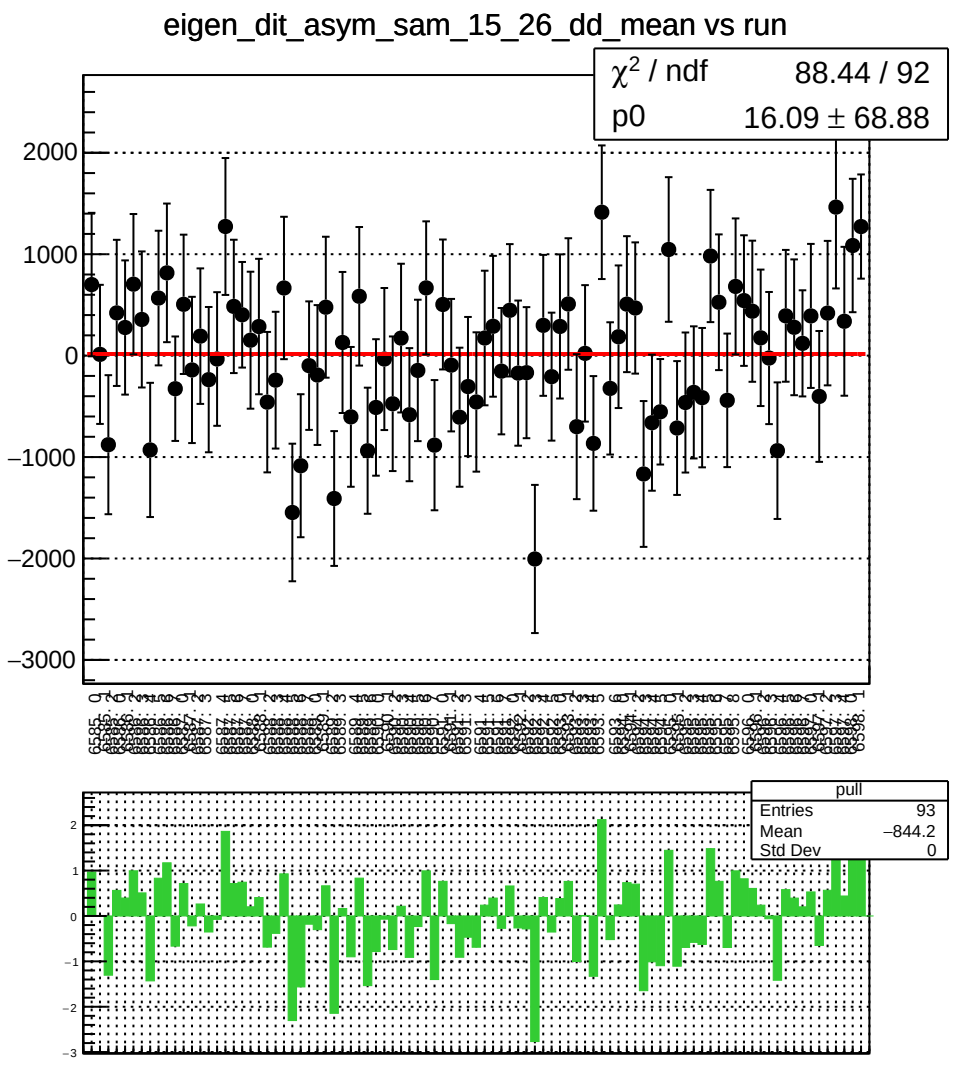

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 88.44 / 92
p0 16.09 ± 68.88
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −844.2
Std Dev 0
2
1
0
−1
−2
−3

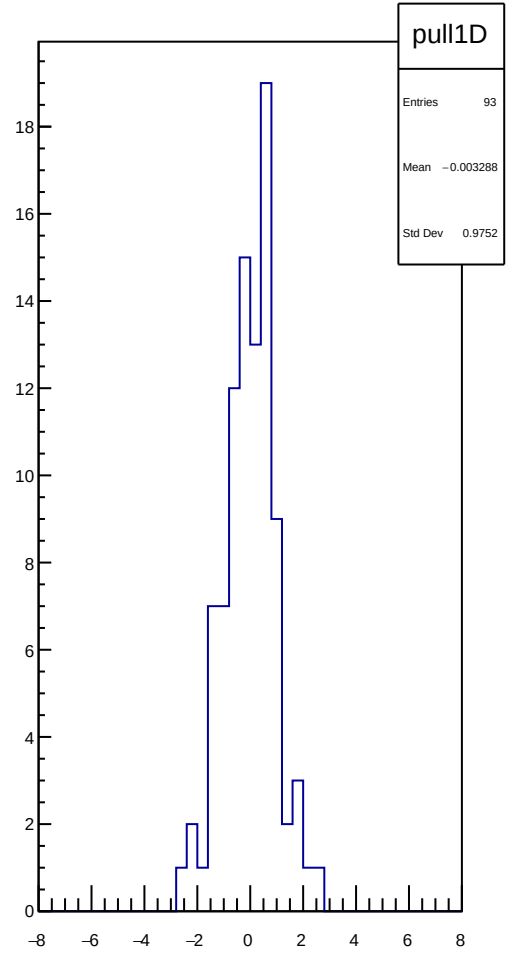

pull1D
Entries 93
Mean −0.003288
Std Dev 0.9752
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

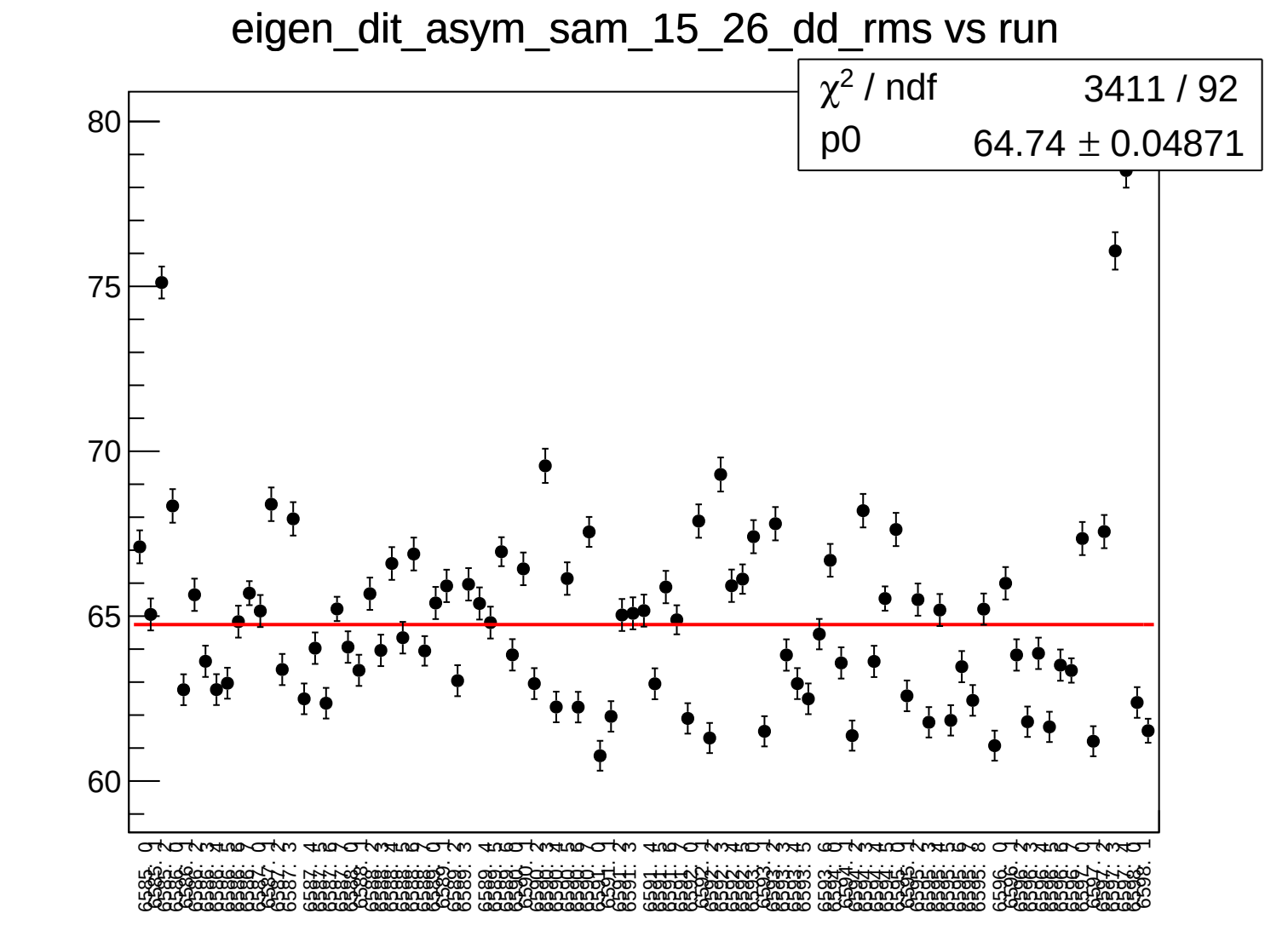

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 3411 / 92
p0 64.74 ± 0.0487
80
75
70
65
60

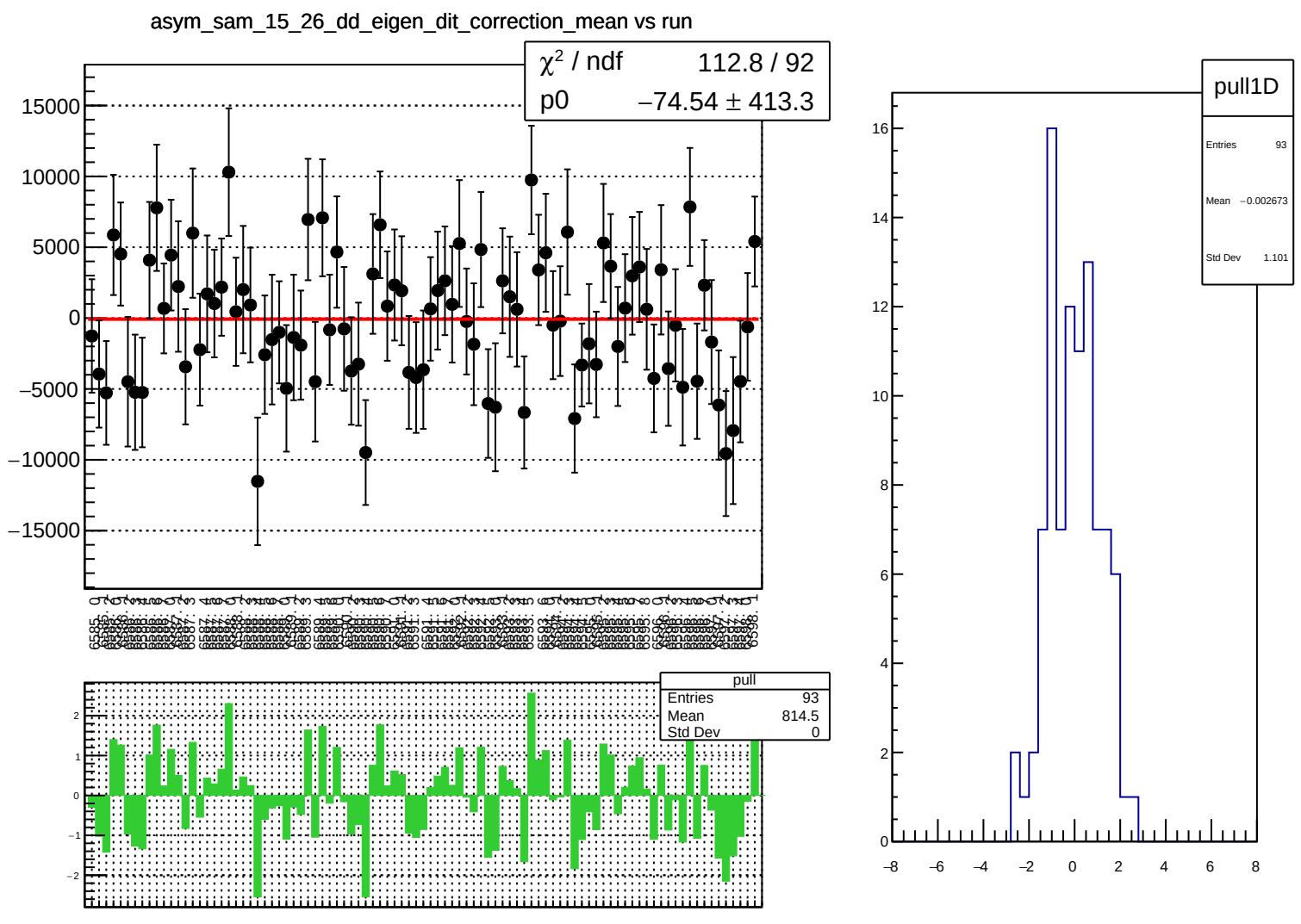

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 112.8 / 92
p0 −74.54 ± 413.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 814.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.002673
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

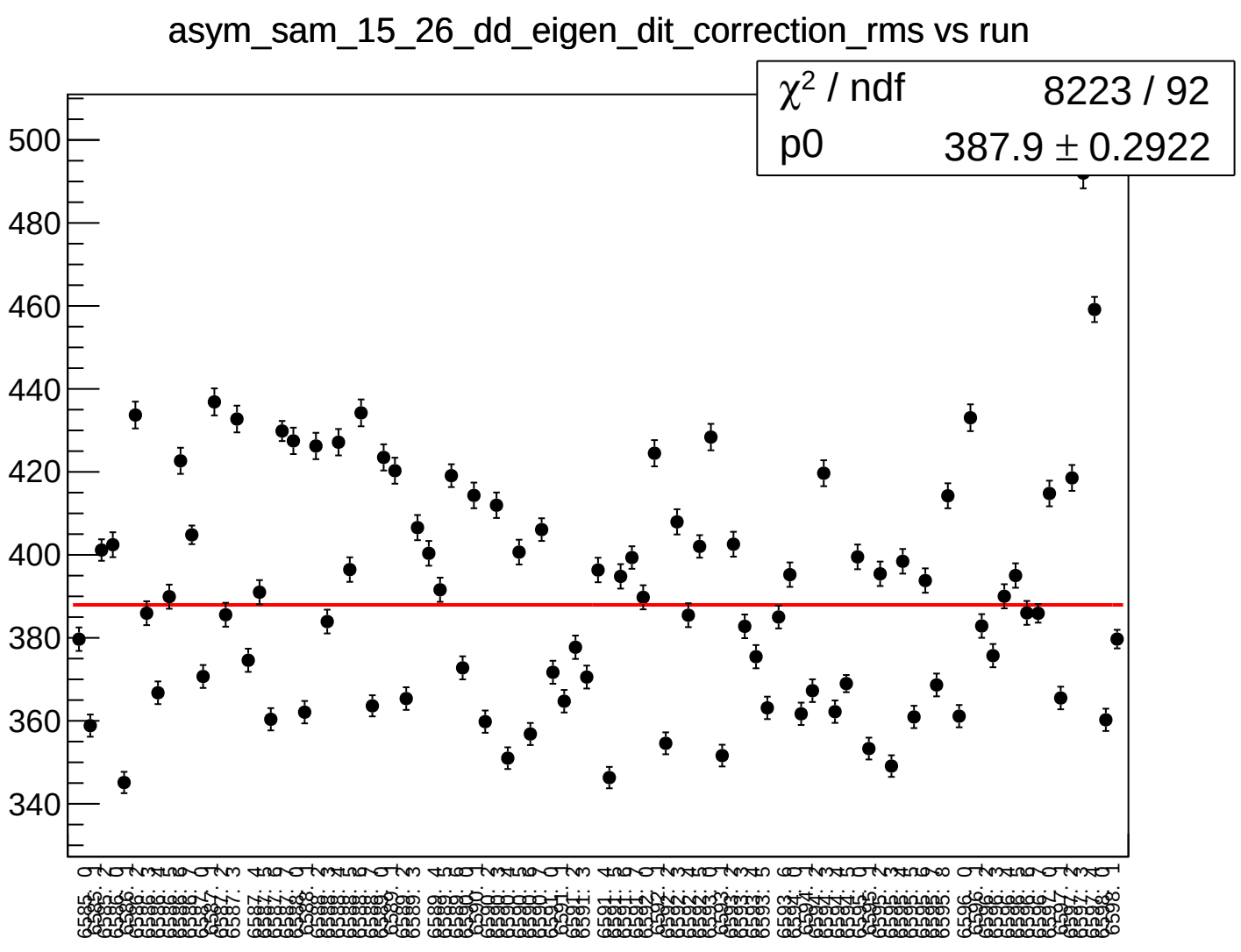

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 8223 / 92
p0 387.9 ± 0.2922
500
480
460
440
420
400
380
360
340

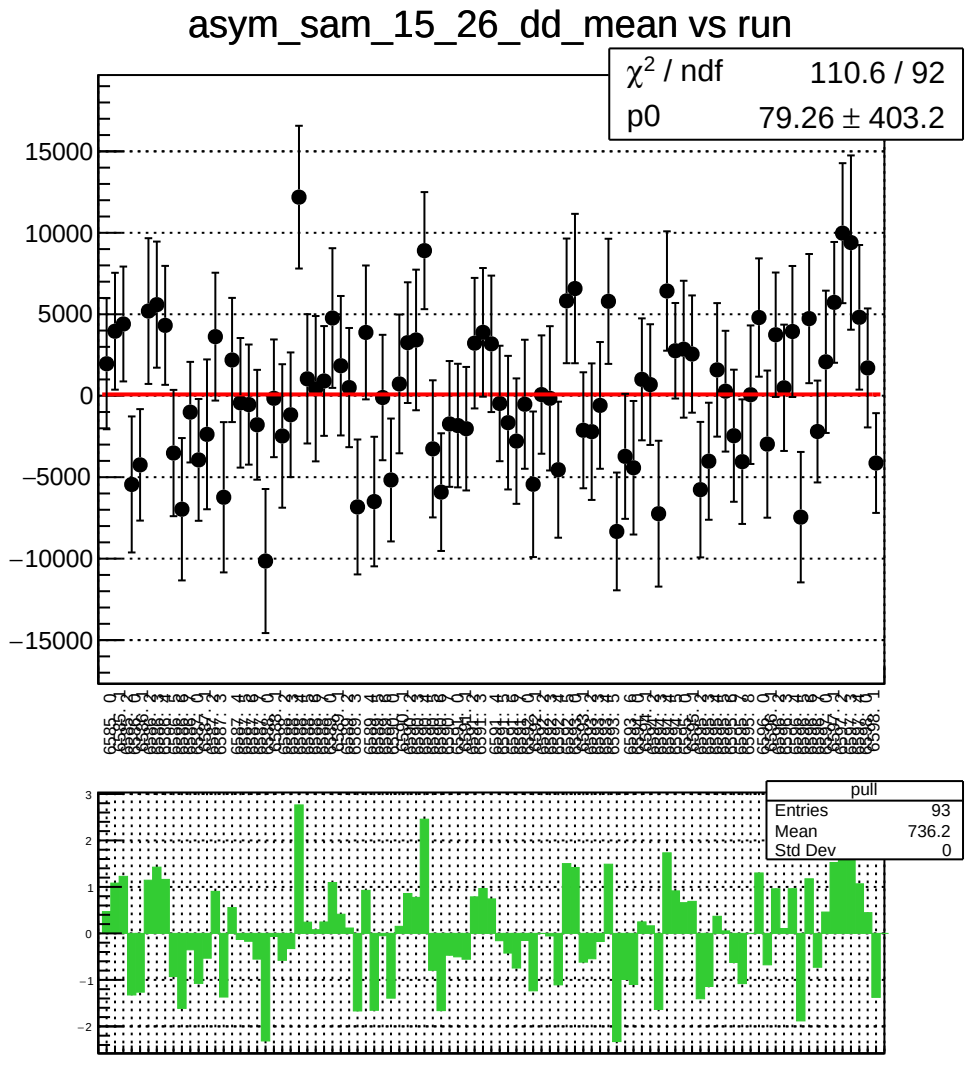

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 88.44 / 92
p0 16.09 ± 68.88
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −844.2
Std Dev 0
2
1
0
−1
−2
−3

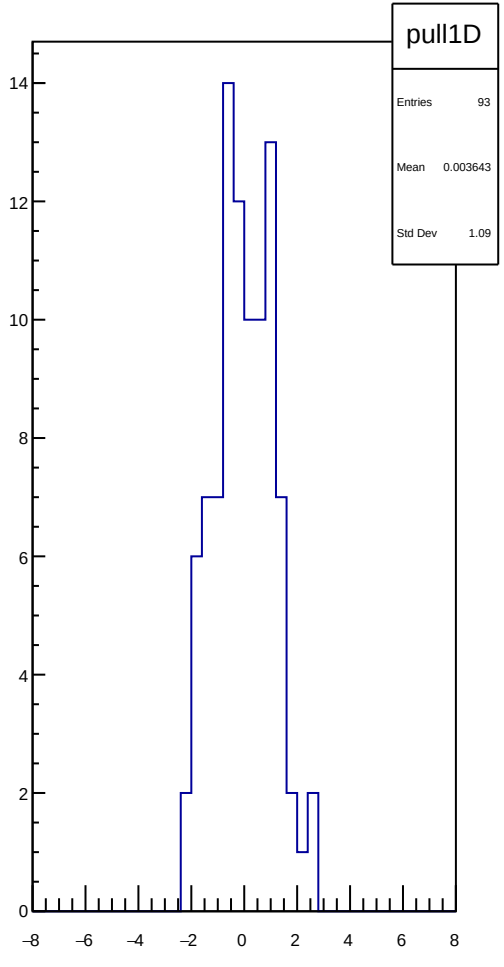

pull1D
Entries 93
Mean −0.003288
Std Dev 0.9752
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

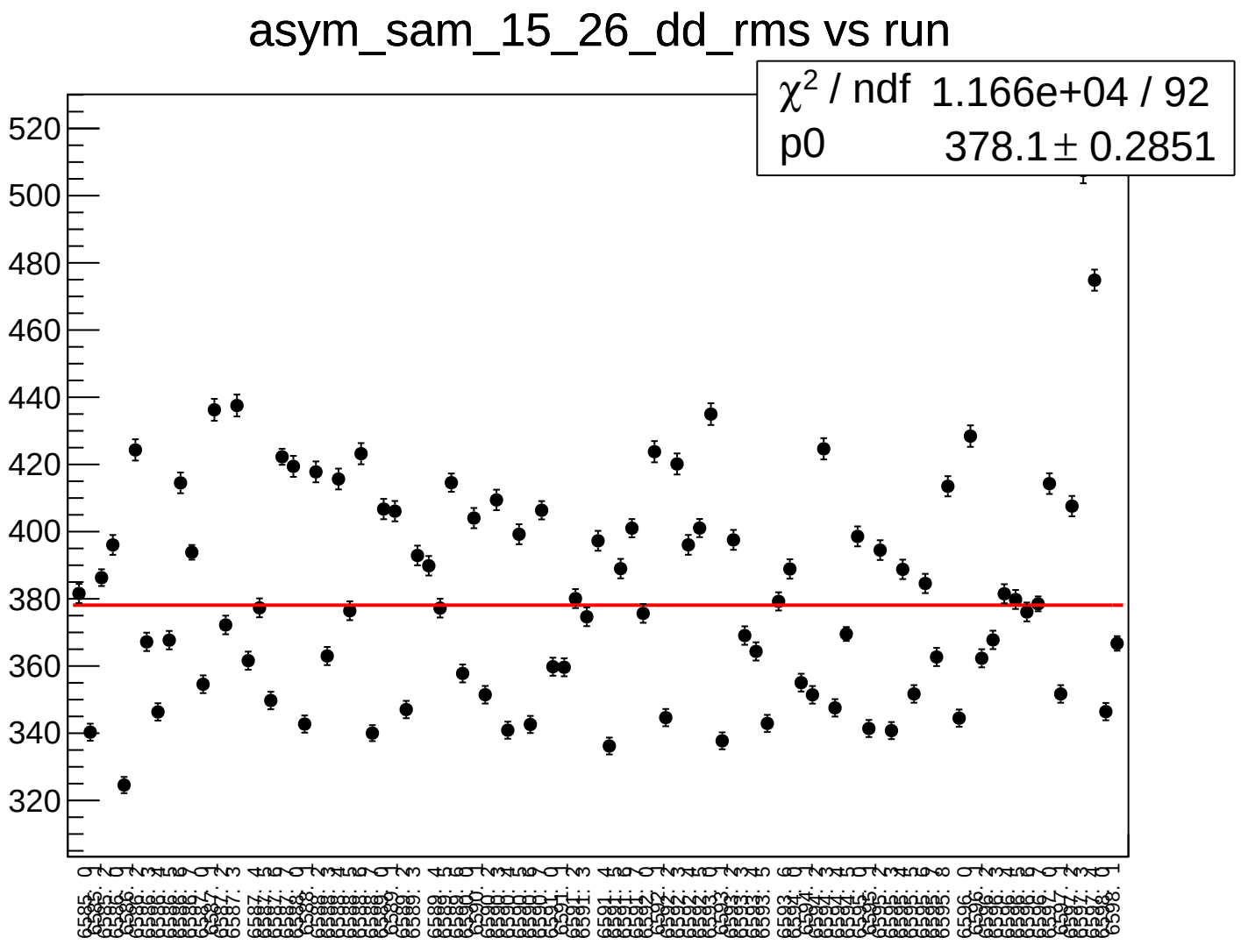

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 3411 / 92
p0 64.74 ± 0.04871
80
75
70
65
60

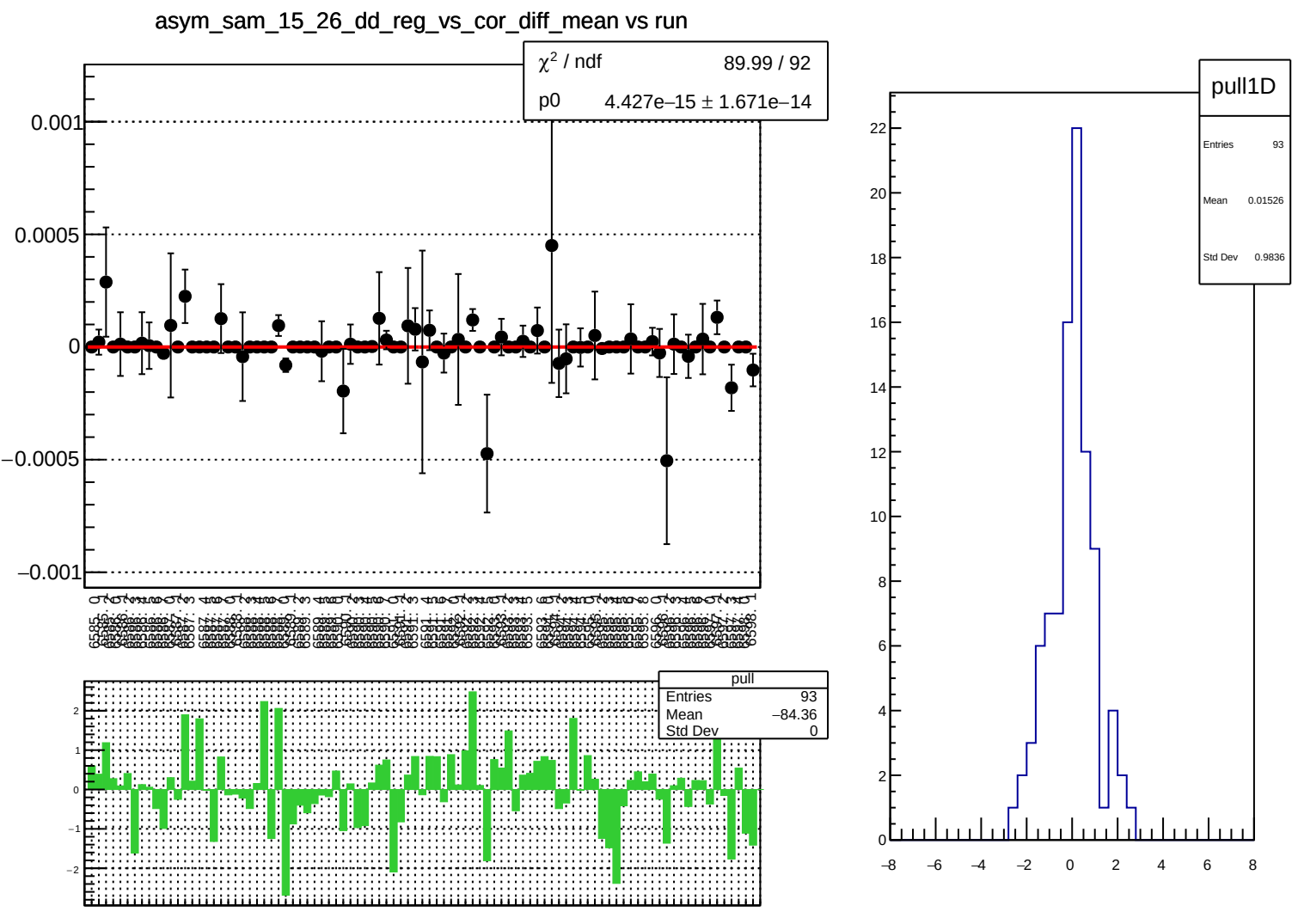

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.8 / 92
p0 −74.54 ± 413.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 814.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.002673
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

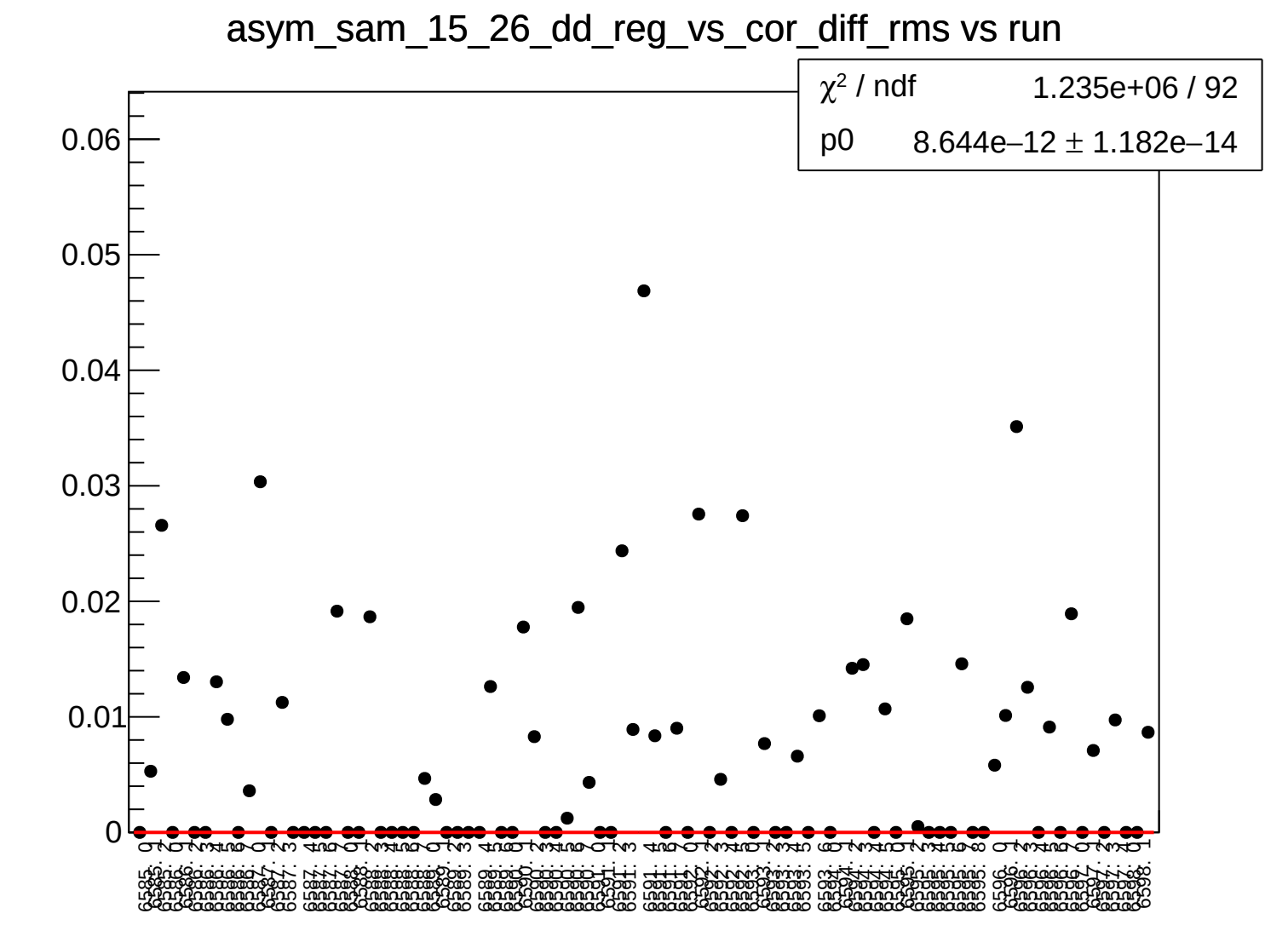

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8223 / 92
p0 387.9 ± 0.2922
500
480
460
440
420
400
380
360
340

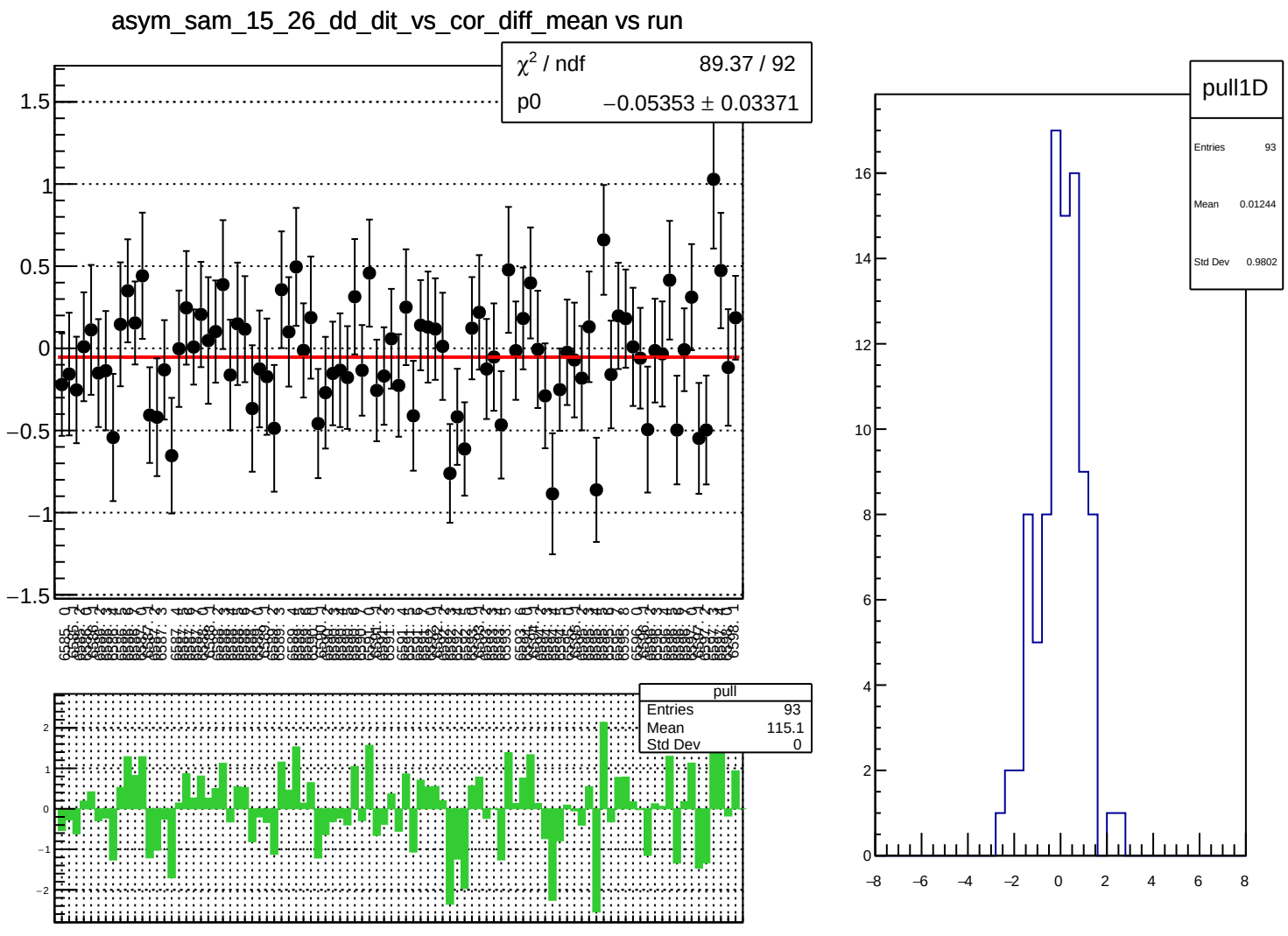

asym_sam_15_26_dd_mean vs run
χ² / ndf 110.6 / 92
p0 79.26 ± 403.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 736.2
Std Dev 0
3
2
1
0
−1
−2

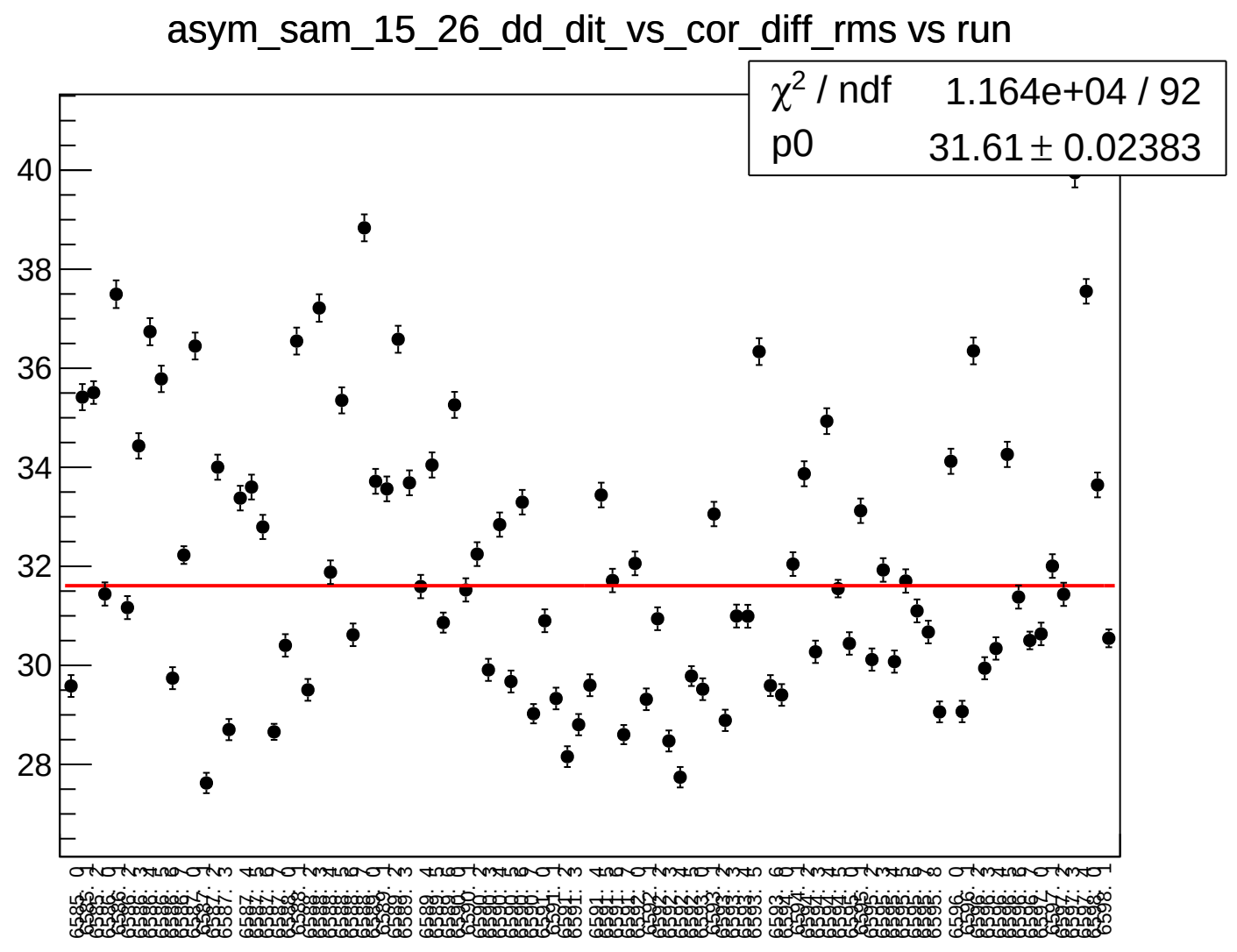

pull1D
Entries 93
Mean 0.003643
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

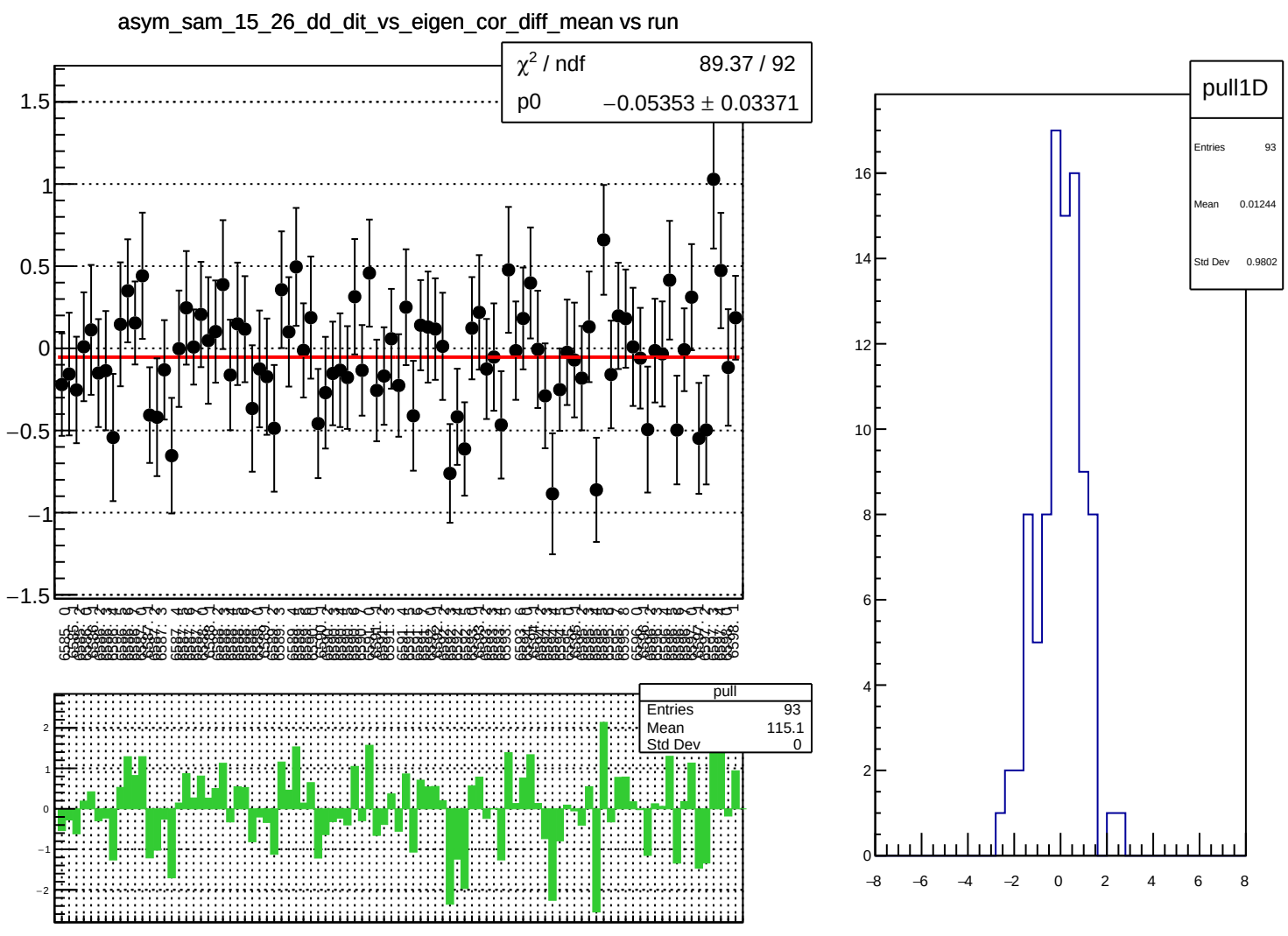

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.166e+04 / 92
p0 378.1 ± 0.2851
520
500
480
460
440
420
400
380
360
340
320

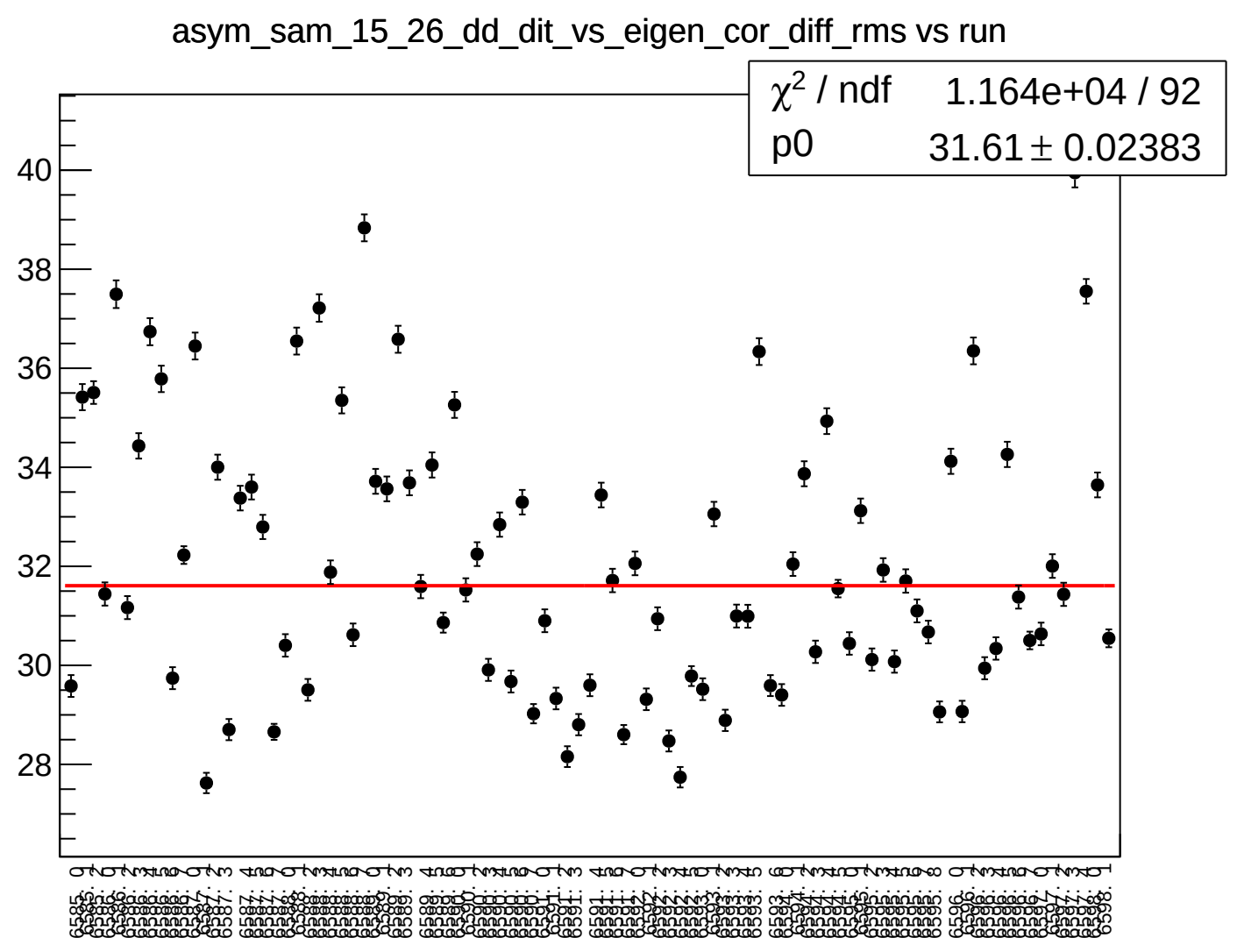

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.99 / 92
p0 4.427e−15 ± 1.671e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean −84.36
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01526
Std Dev 0.9836
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

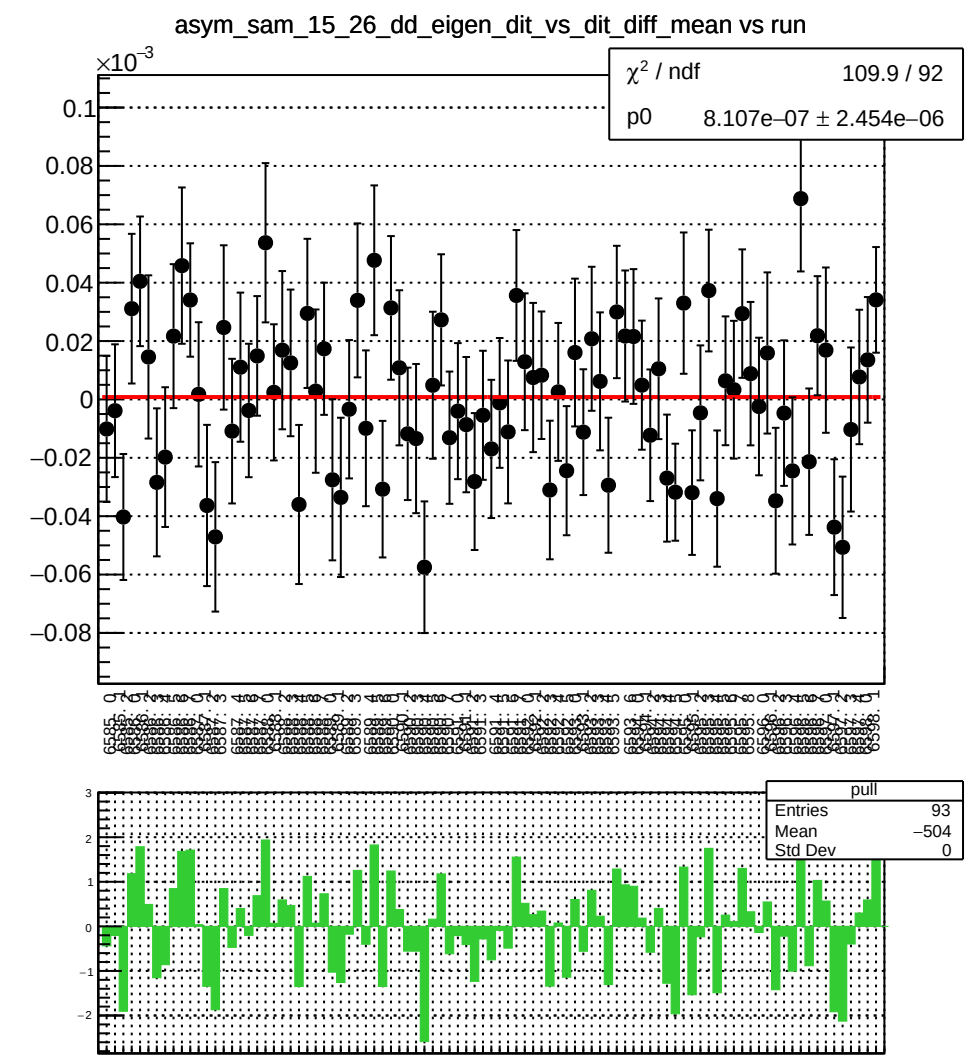

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.235e+06 / 92
p0 8.644e−12 ± 1.182e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

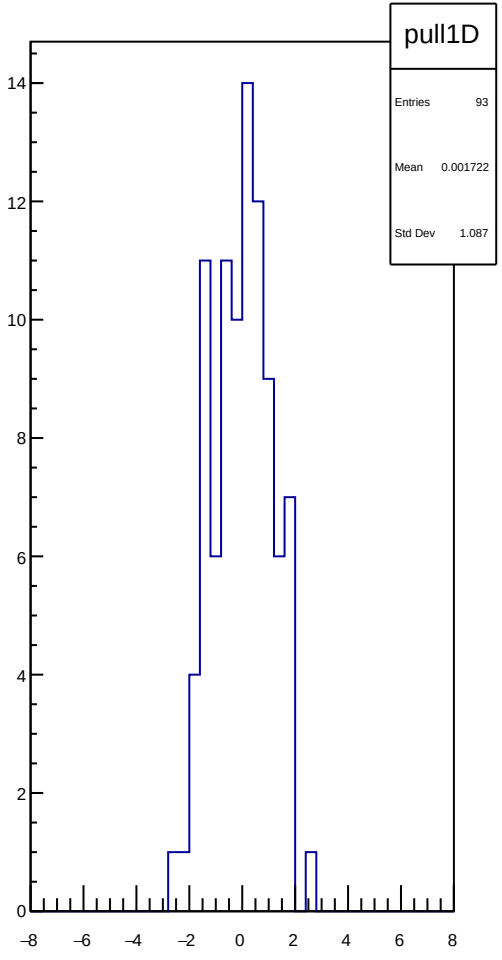

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.37 / 92
p0 −0.05353 ± 0.03371
pull
Entries 93
Mean 115.1
Std Dev 0
pull1D
Entries 93
Mean 0.01244
Std Dev 0.9802

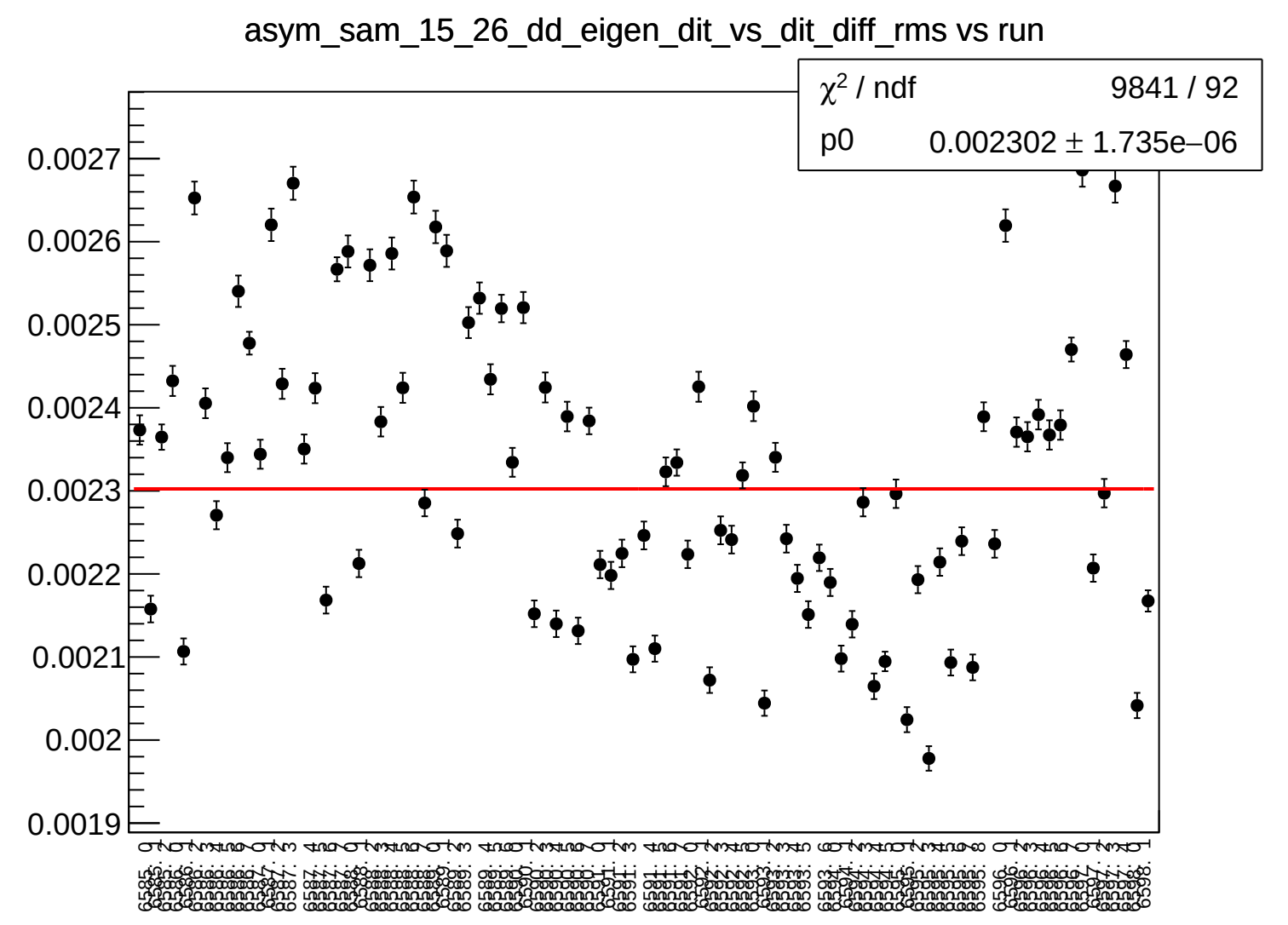

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.164e+04 / 92
p0 31.61 ± 0.02383
40
38
36
34
32
30
28

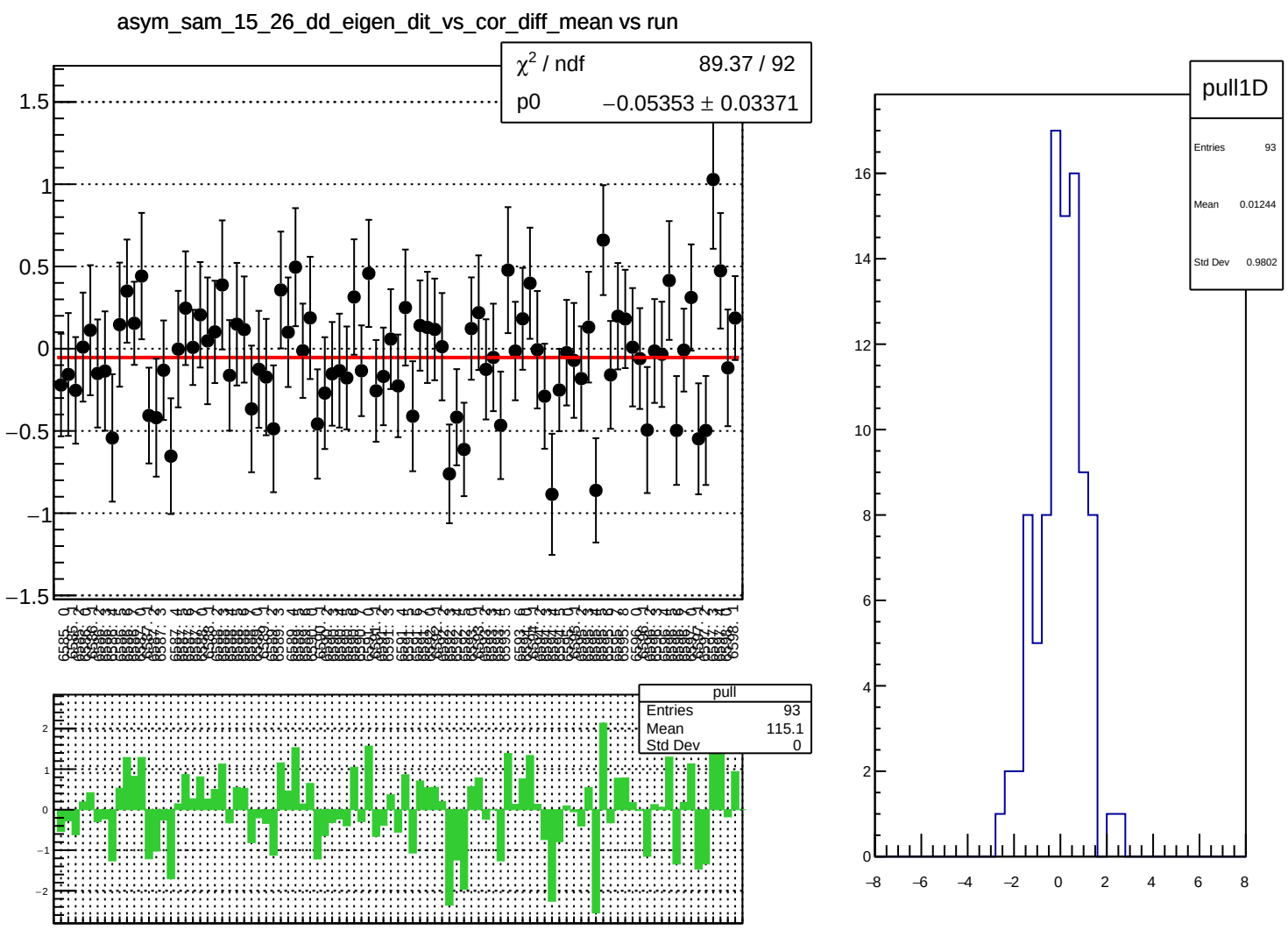

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.37 / 92
p0 −0.05353 ± 0.03371
pull
Entries 93
Mean 115.1
Std Dev 0
pull1D
Entries 93
Mean 0.01244
Std Dev 0.9802

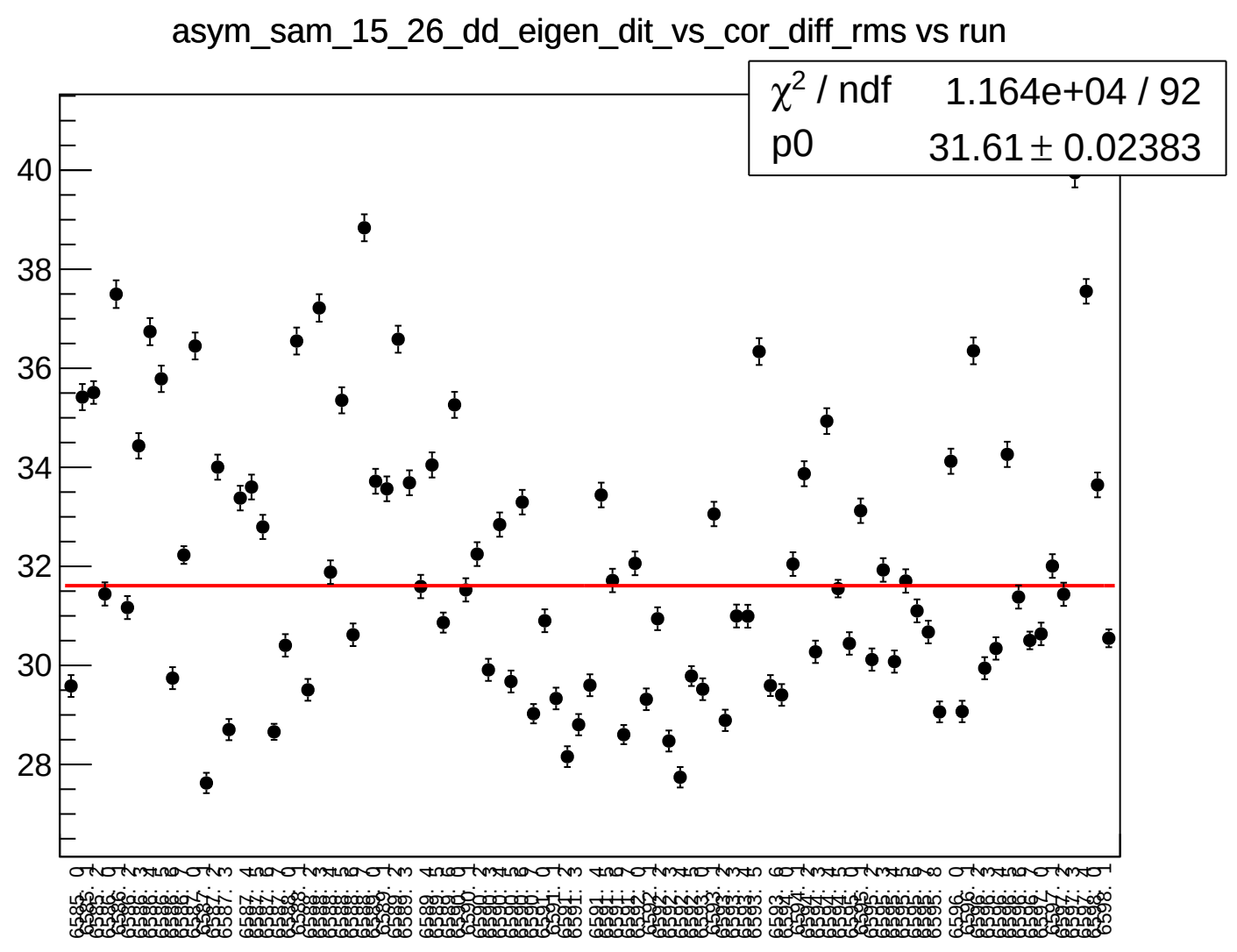

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.164e+04 / 92
p0 31.61 ± 0.02383
40
38
36
34
32
30
28

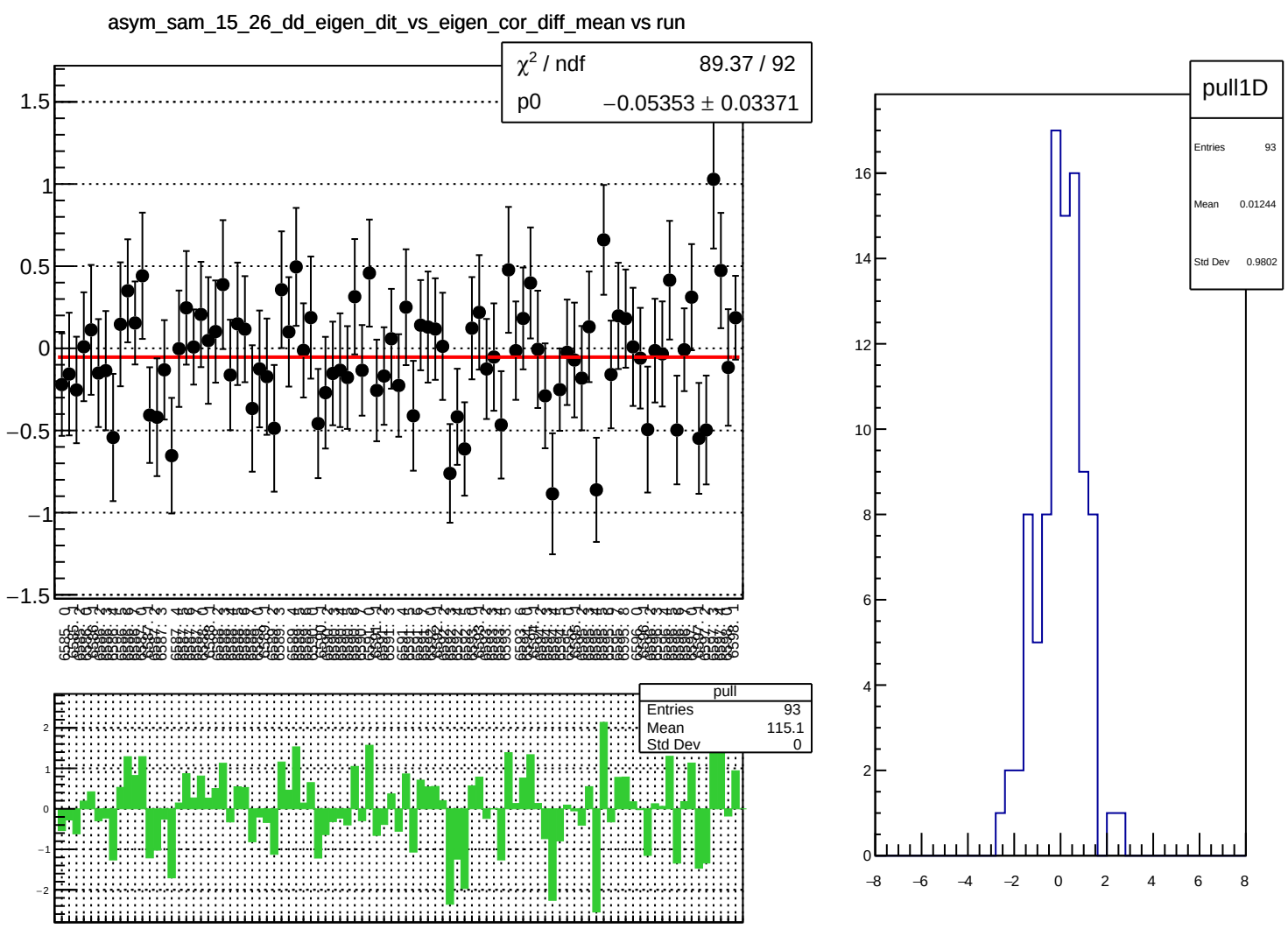

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.9 / 92
p0 8.107e−07 ± 2.454e−06
pull
Entries 93
Mean −504
Std Dev 0

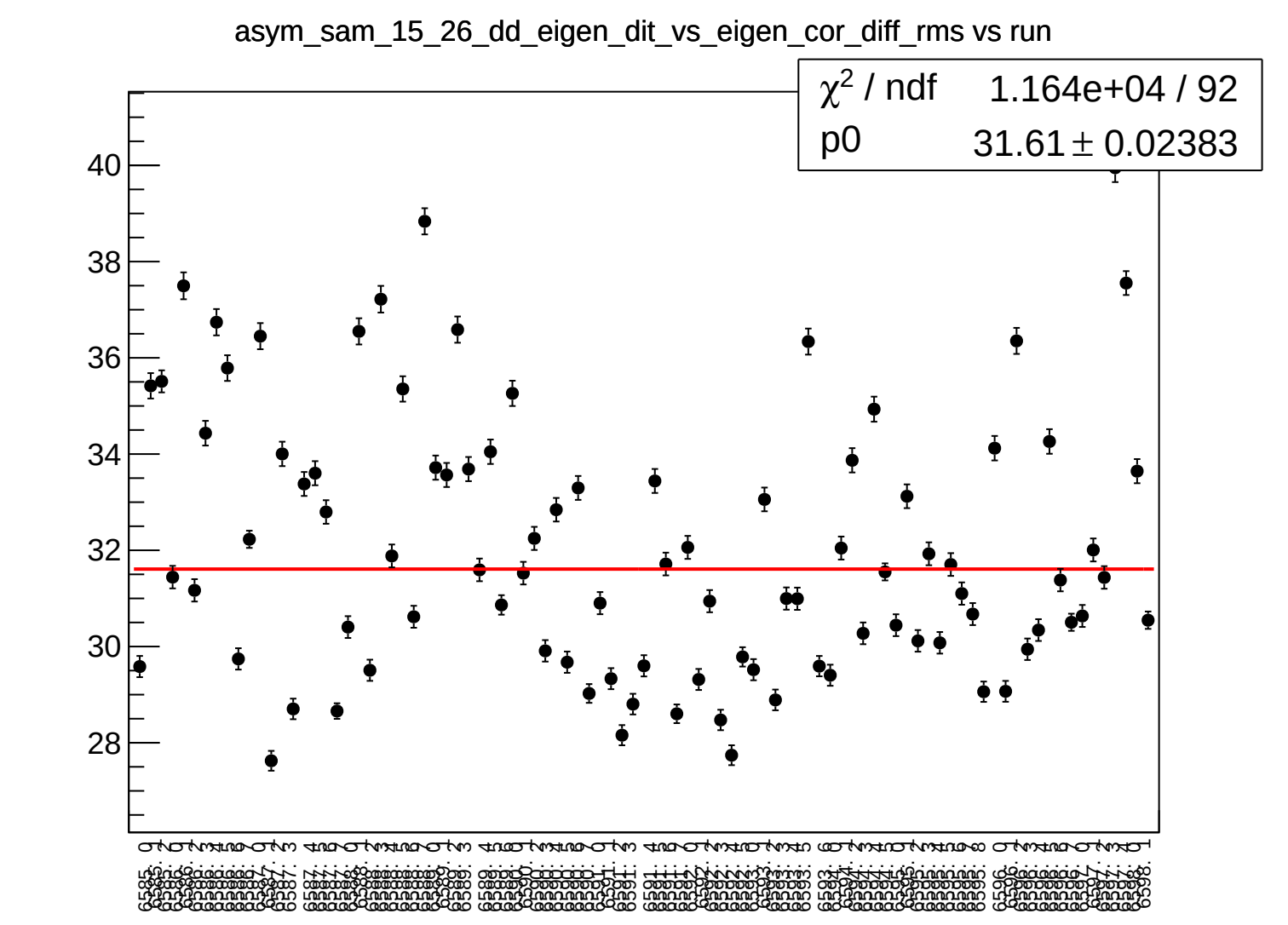

pull1D
Entries 93
Mean 0.001722
Std Dev 1.087

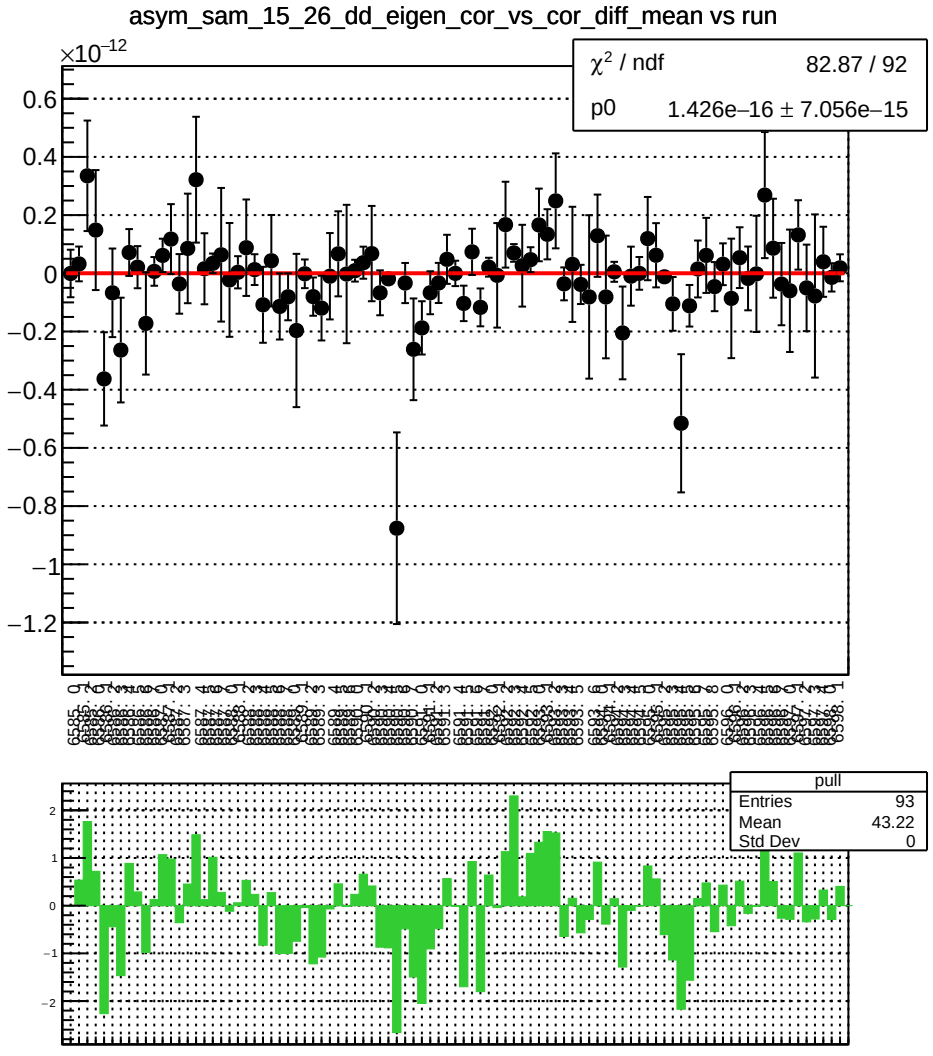

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9841 / 92
p0 0.002302 ± 1.735e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

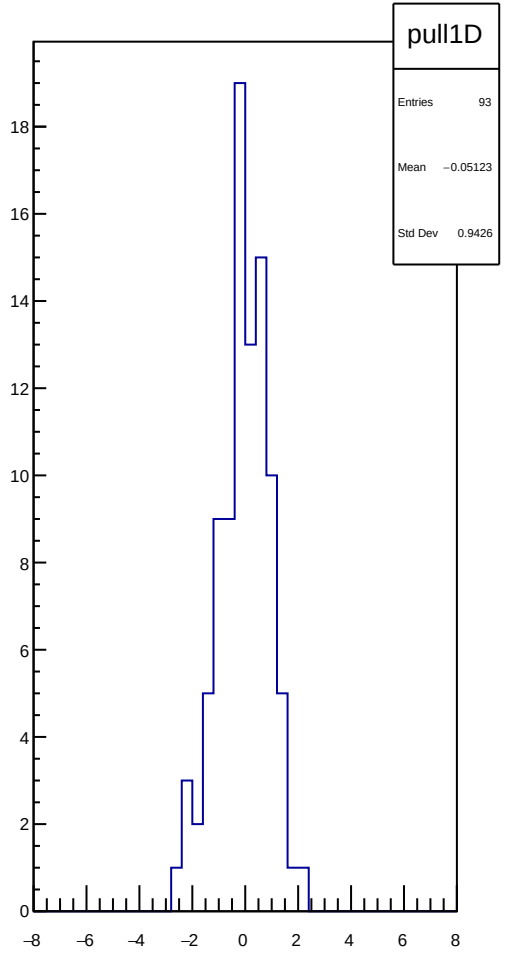

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.37 / 92
p0 −0.05353 ± 0.03371
pull
Entries 93
Mean 115.1
Std Dev 0
pull1D
Entries 93
Mean 0.01244
Std Dev 0.9802

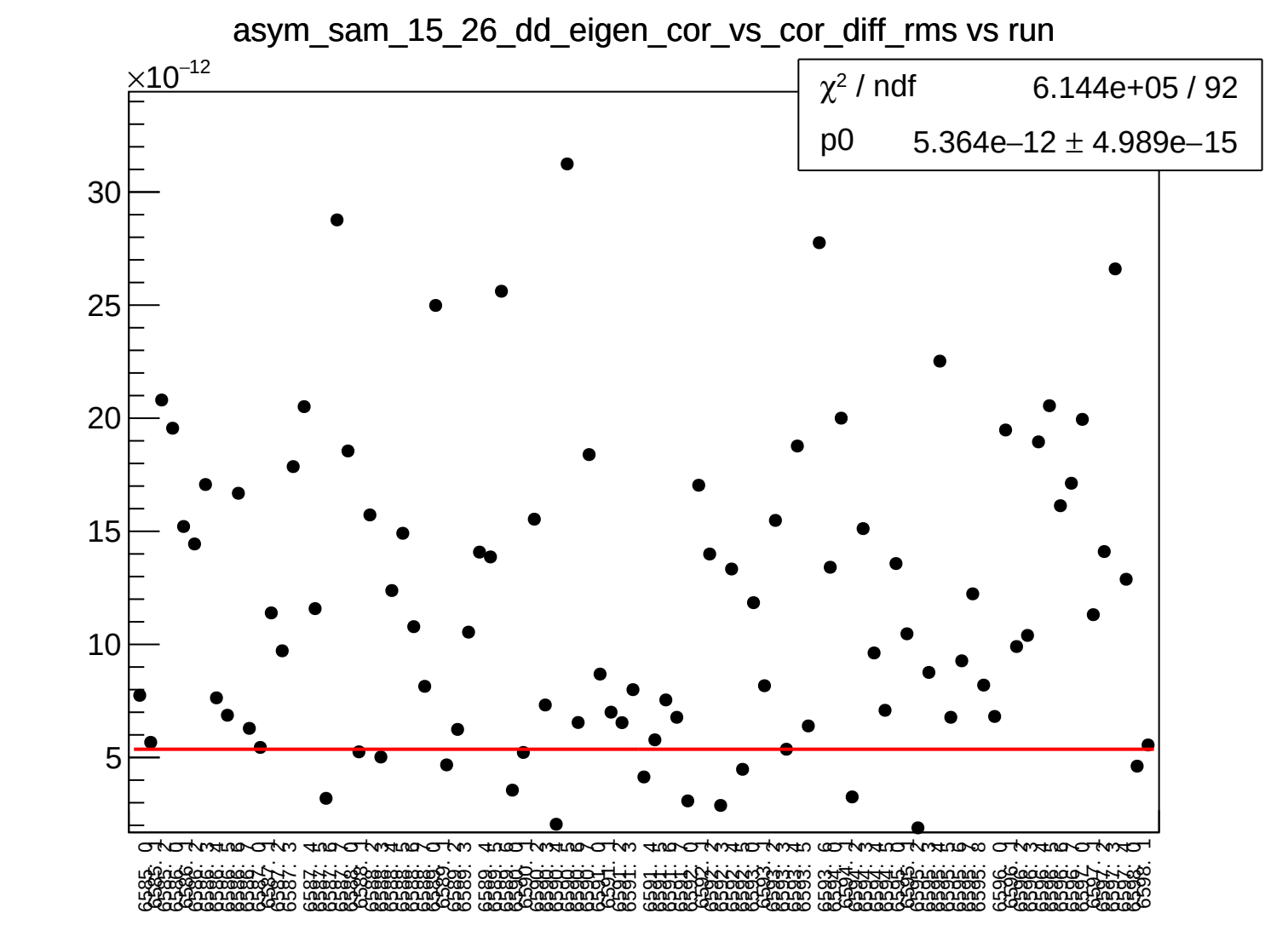

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.164e+04 / 92
p0 31.61 ± 0.02383
40
38
36
34
32
30
28

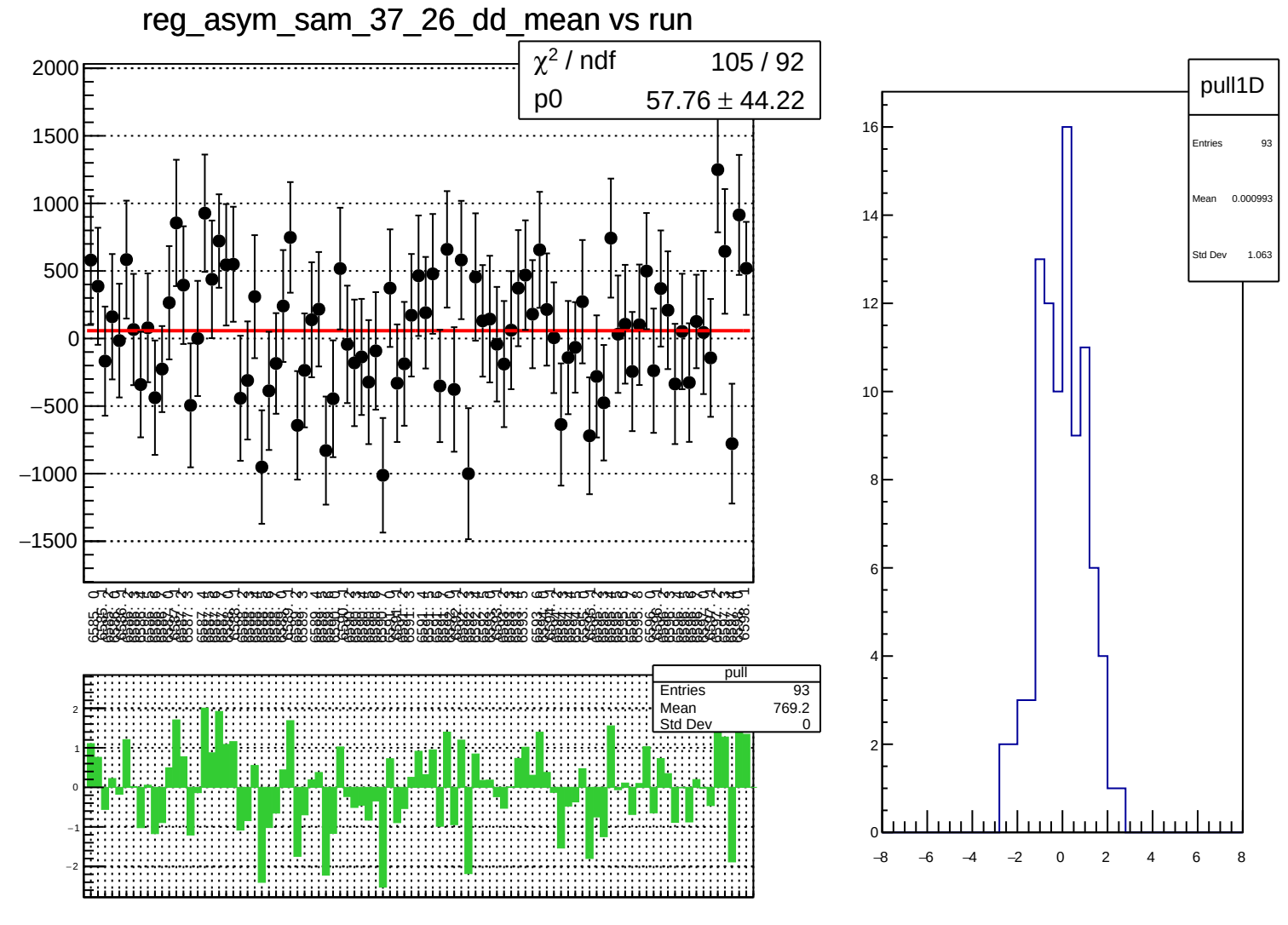

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.37 / 92
p0 −0.05353 ± 0.03371
pull
Entries 93
Mean 115.1
Std Dev 0
pull1D
Entries 93
Mean 0.01244
Std Dev 0.9802

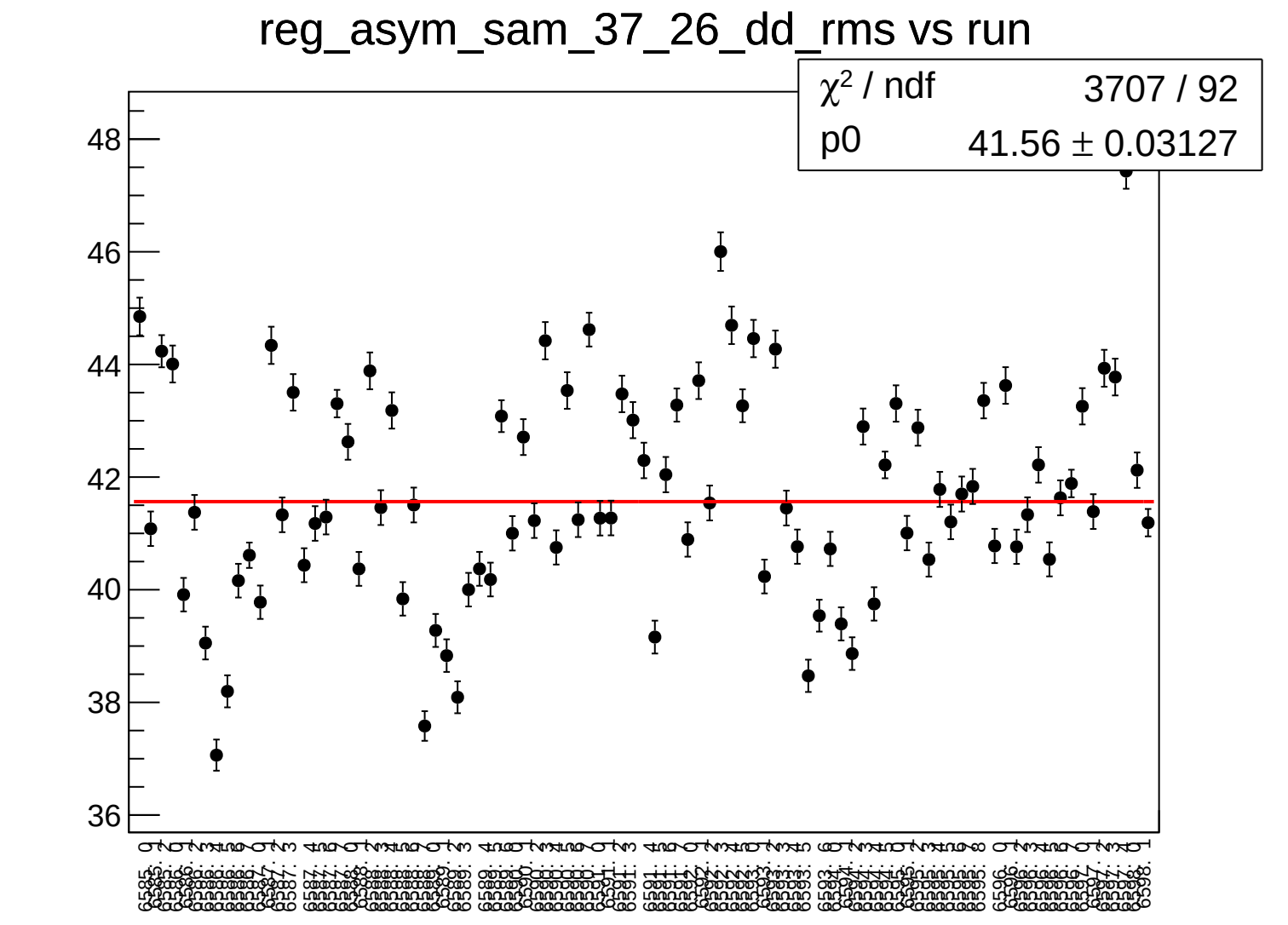

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.164e+04 / 92
p0 31.61 ± 0.02383
40
38
36
34
32
30
28

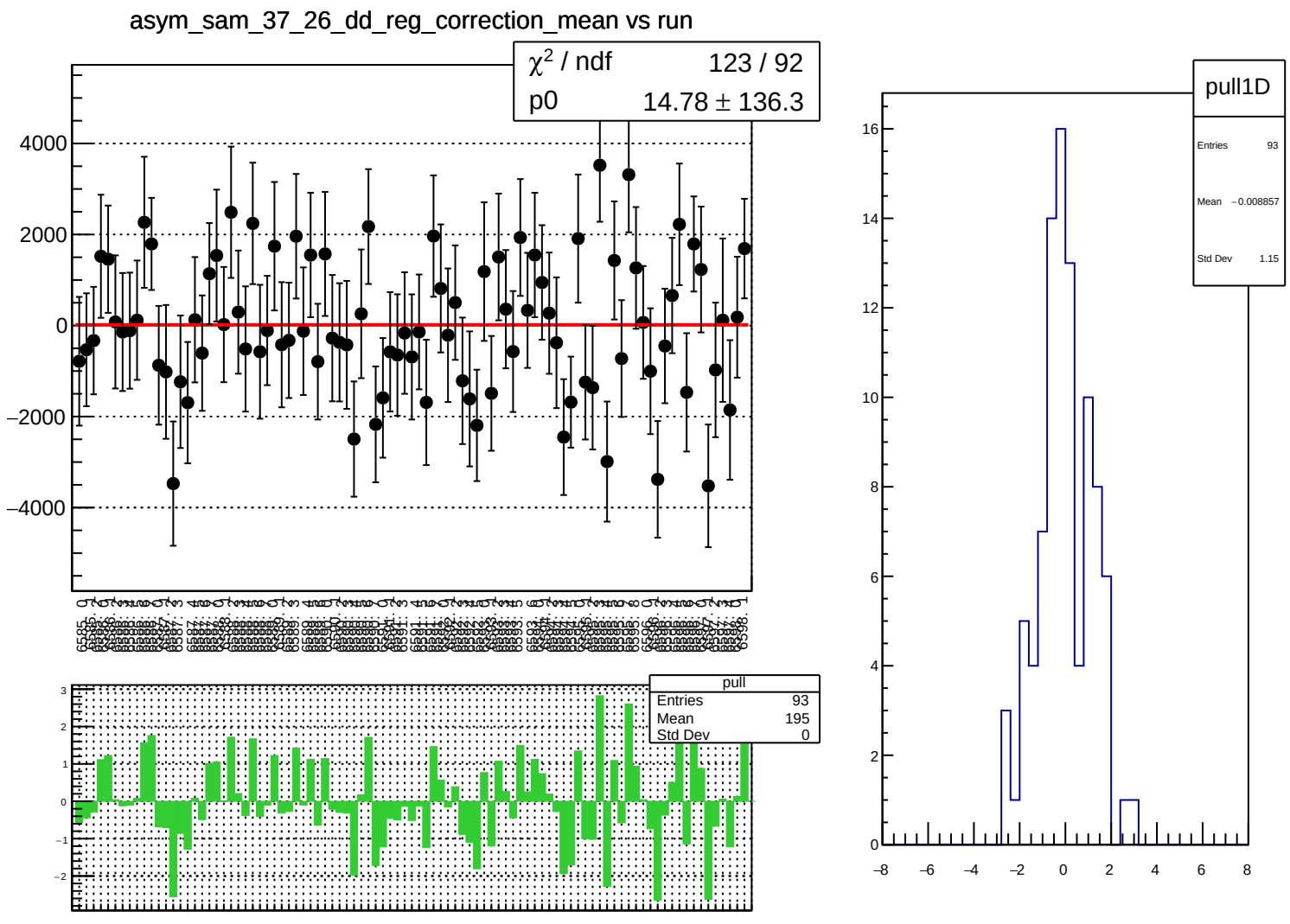

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.87 / 92
p0 1.426e−16 ± 7.056e−15
pull
Entries 93
Mean 43.22
Std Dev 0

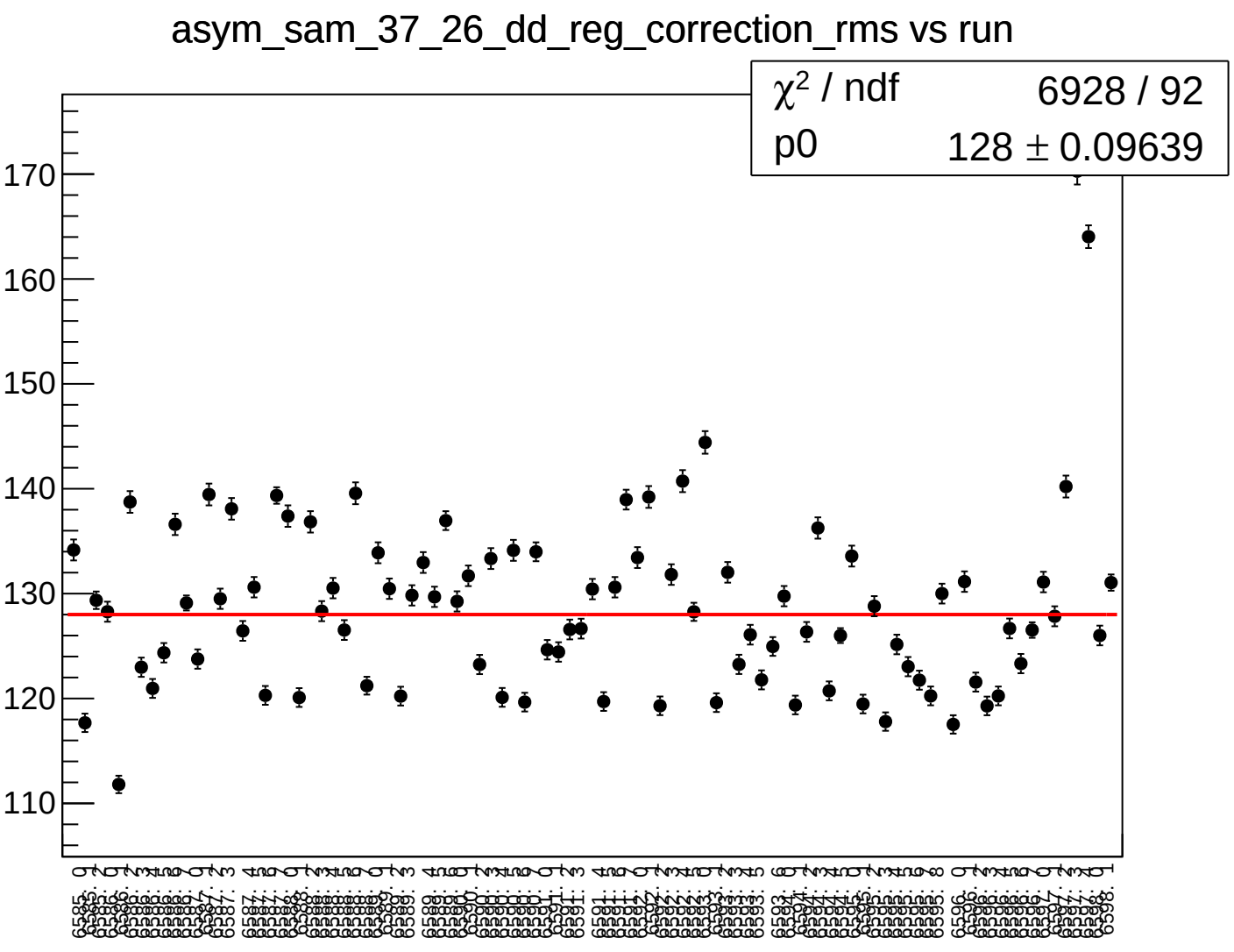

pull1D
Entries 93
Mean −0.05123
Std Dev 0.9426

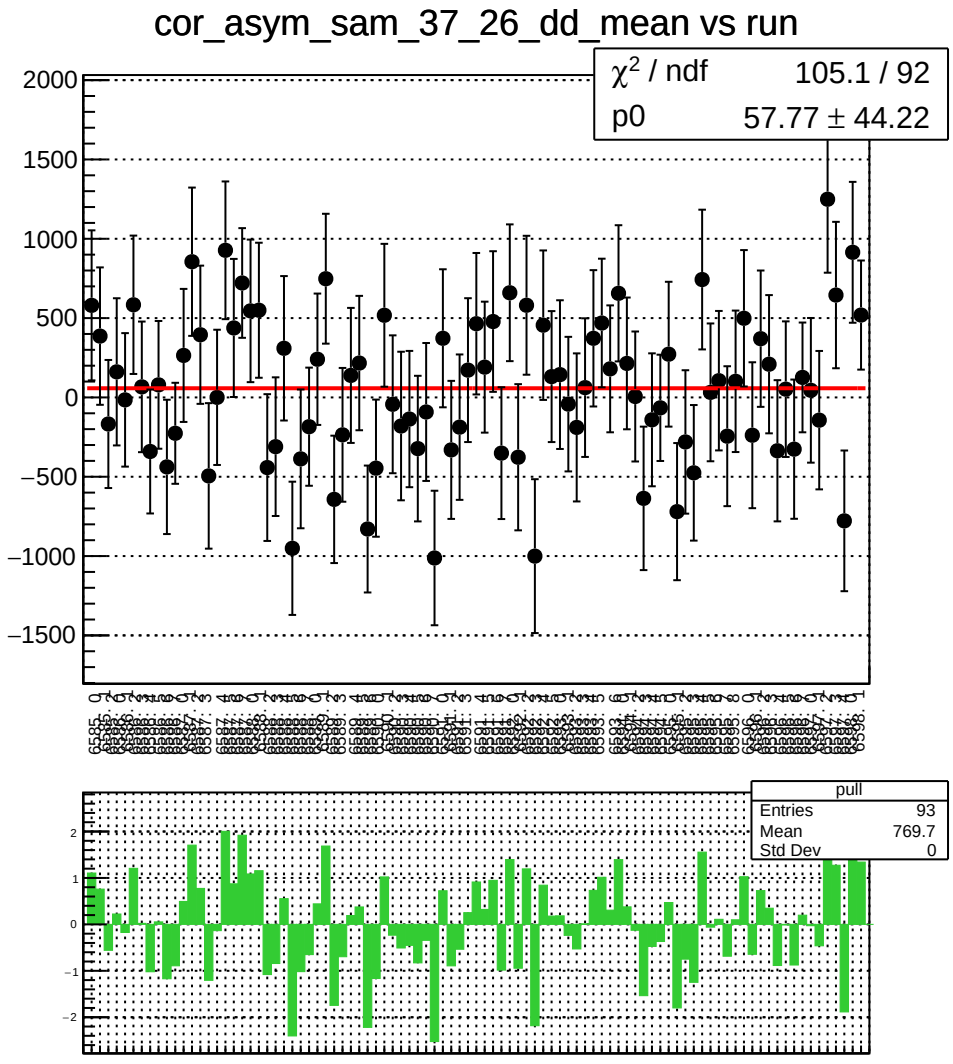

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.144e+05 / 92
p0 5.364e−12 ± 4.989e−15
30
25
20
15
10
5

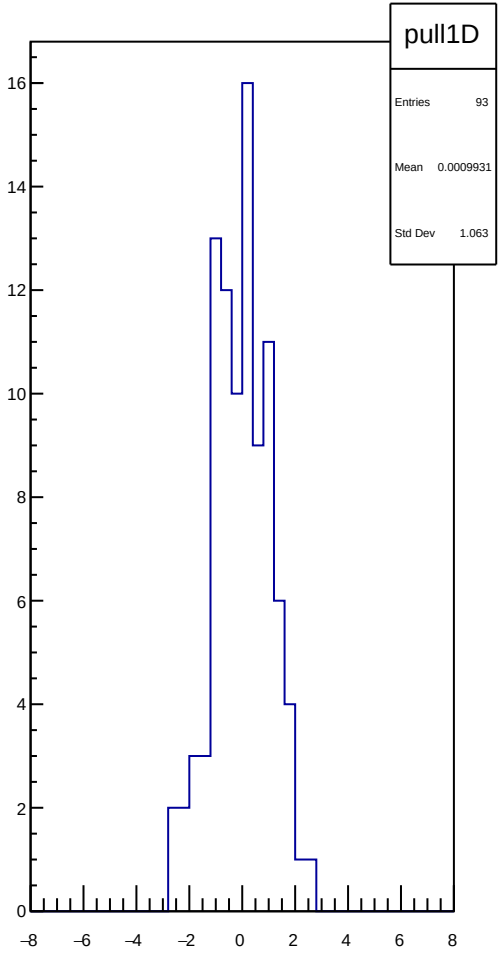

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 105 / 92
p0 57.76 ± 44.22
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 769.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.000993
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

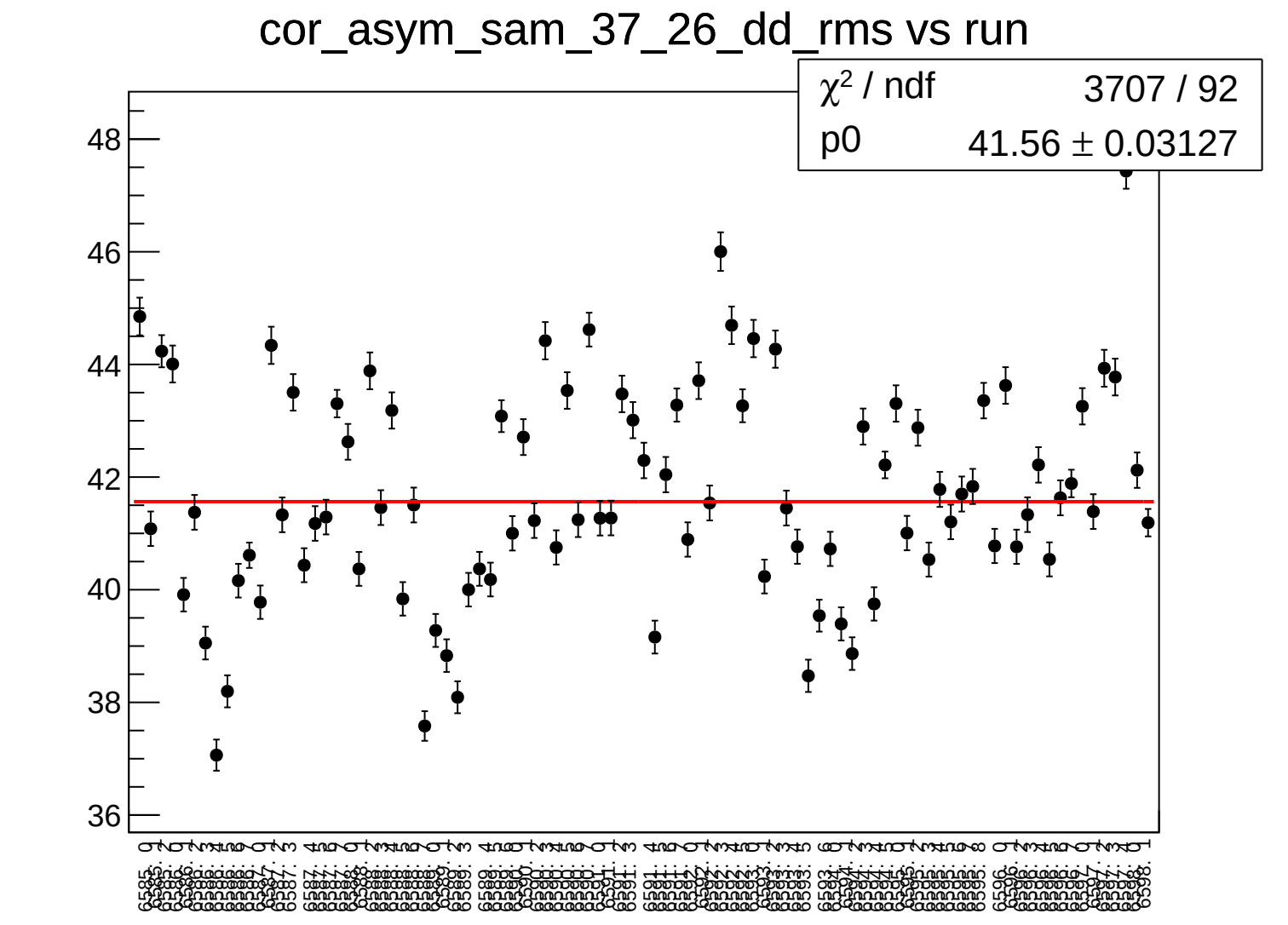

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3707 / 92
p0 41.56 ± 0.03127
48
46
44
42
40
38
36

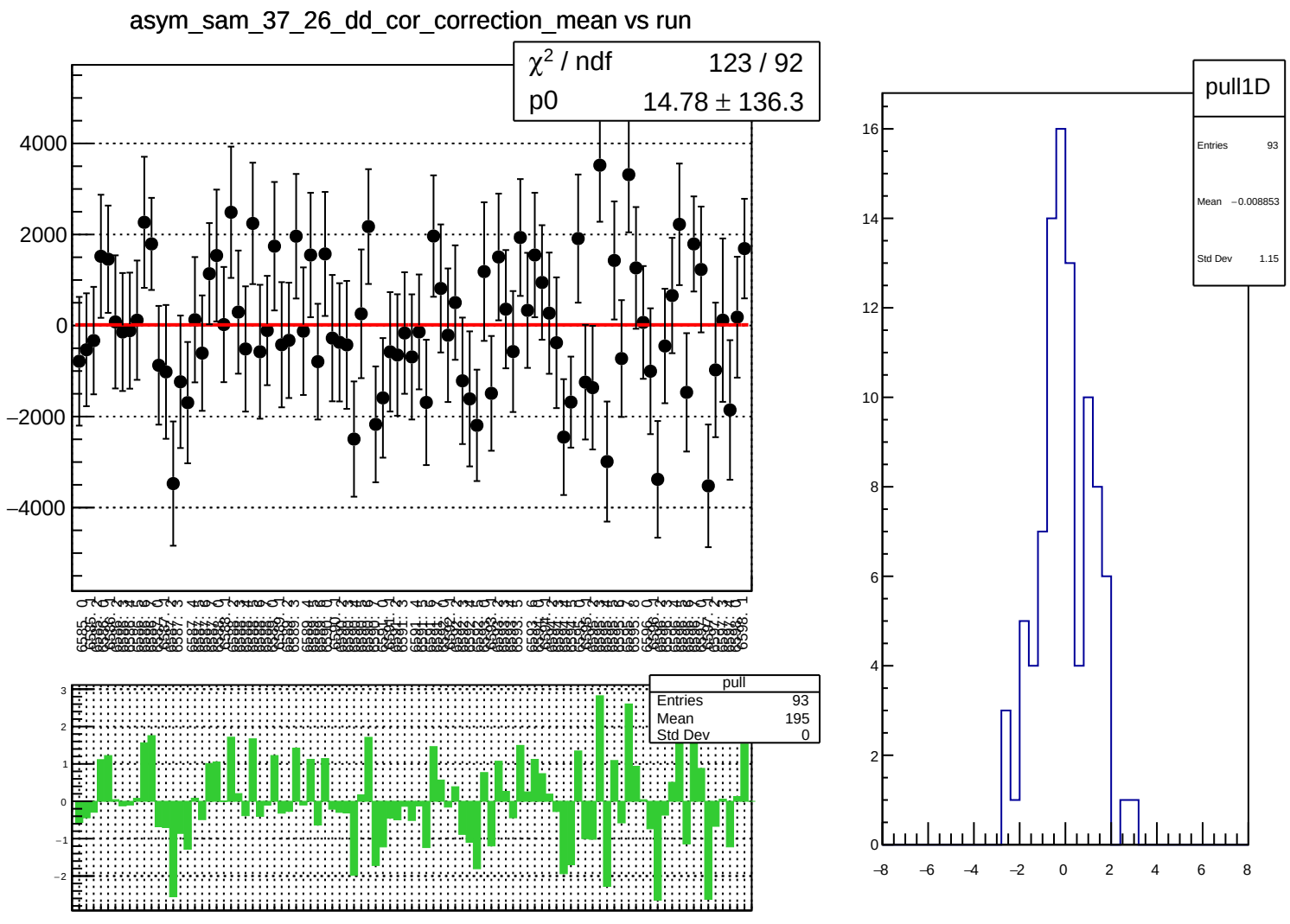

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 123 / 92
p0 14.78 ± 136.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 195
Std Dev 0
pull1D
Entries 93
Mean −0.008857
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

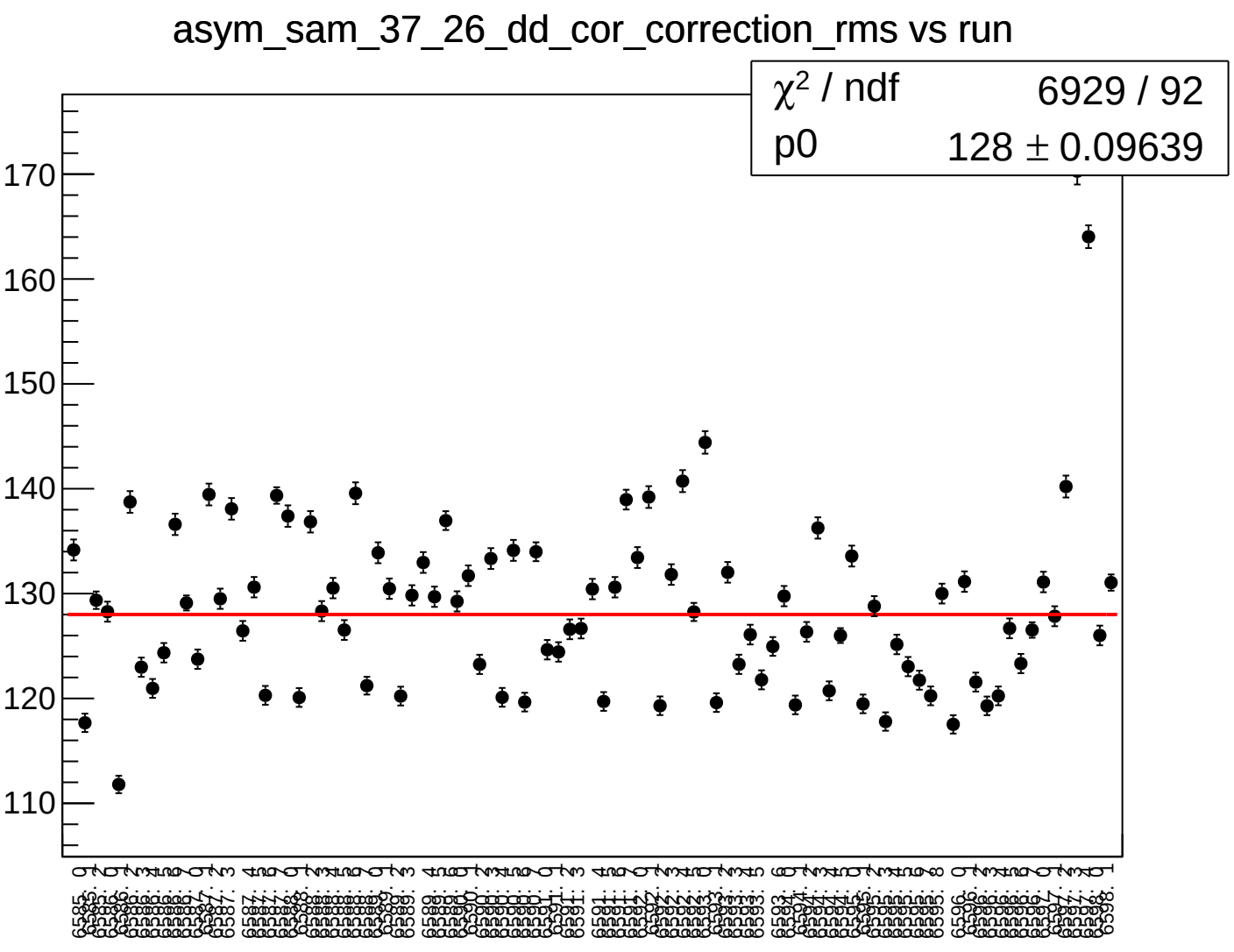

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 6928 / 92
p0 128 ± 0.09639
170
160
150
140
130
120
110

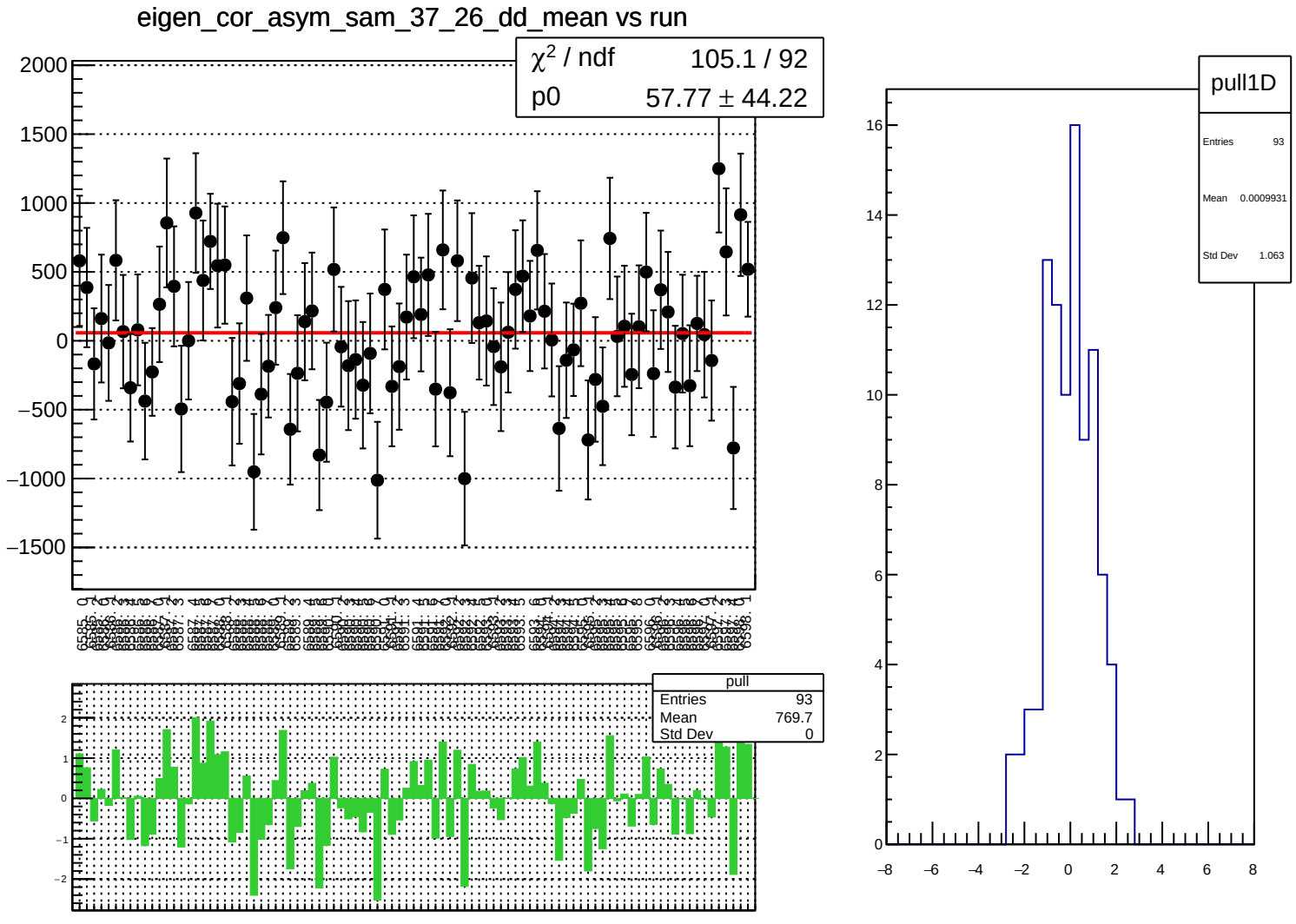

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 105.1 / 92
p0 57.77 ± 44.22
pull
Entries 93
Mean 769.7
Std Dev 0

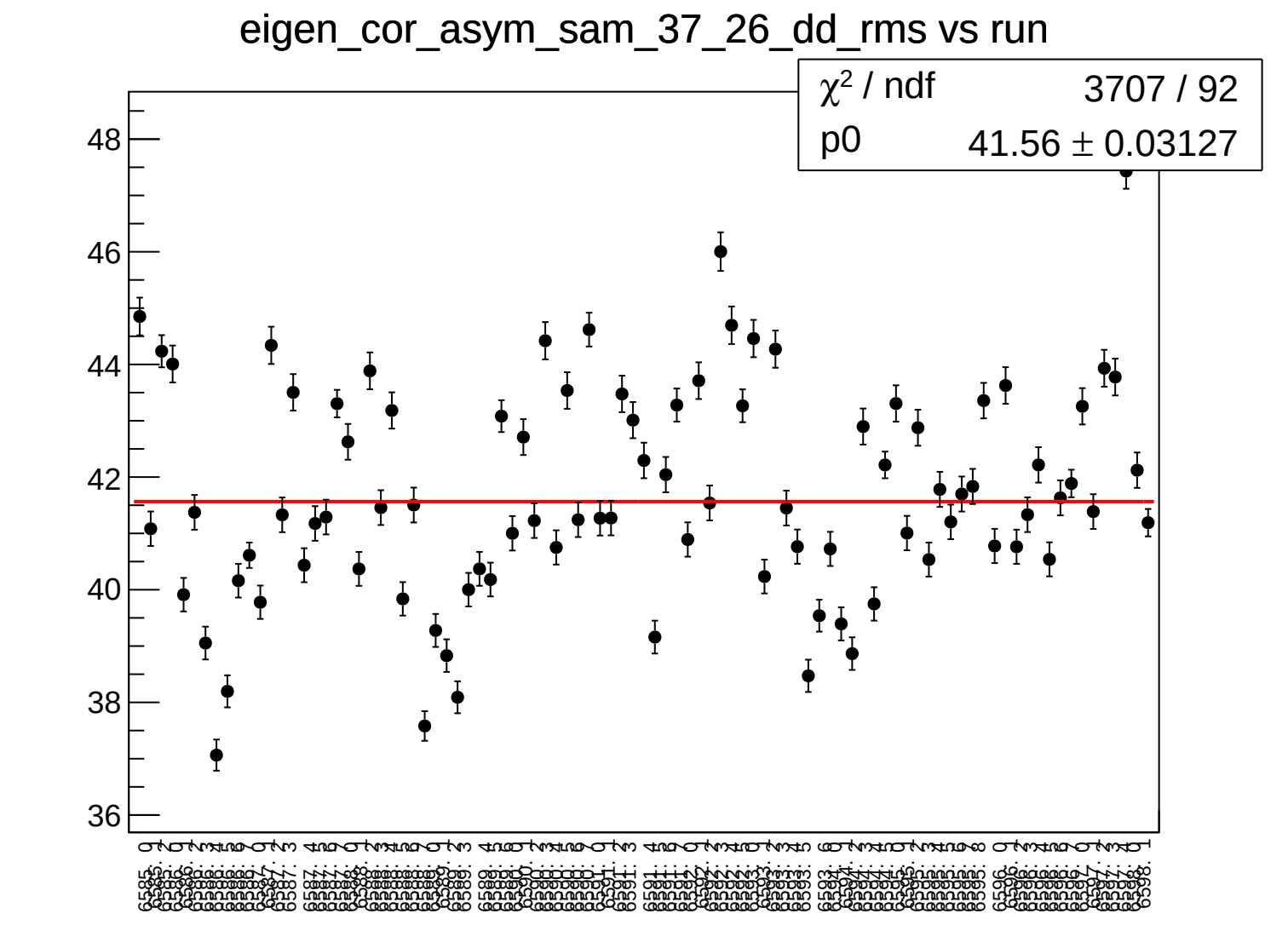

pull1D
Entries 93
Mean 0.0009931
Std Dev 1.063

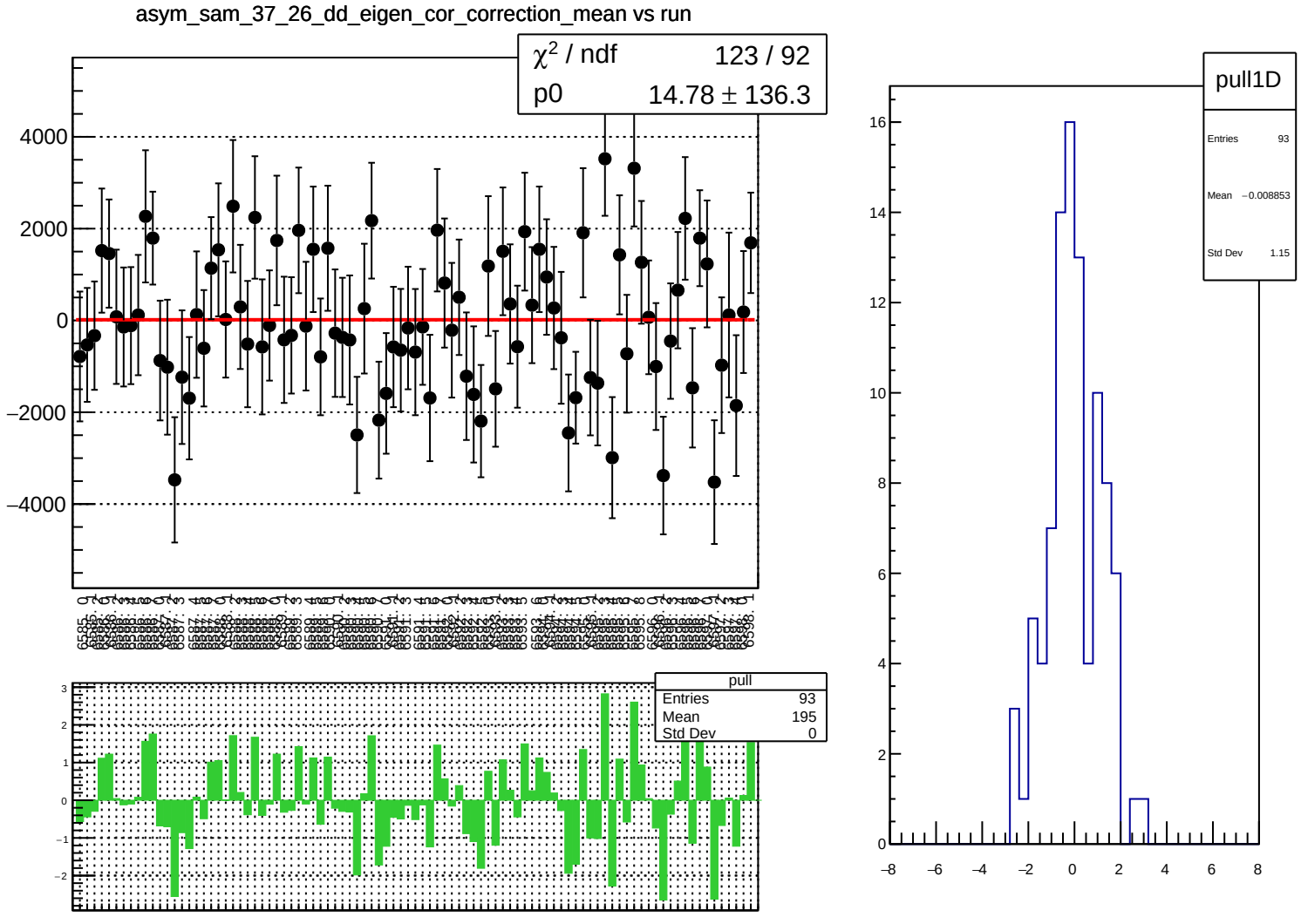

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3707 / 92
p0 41.56 ± 0.03127
48
46
44
42
40
38
36

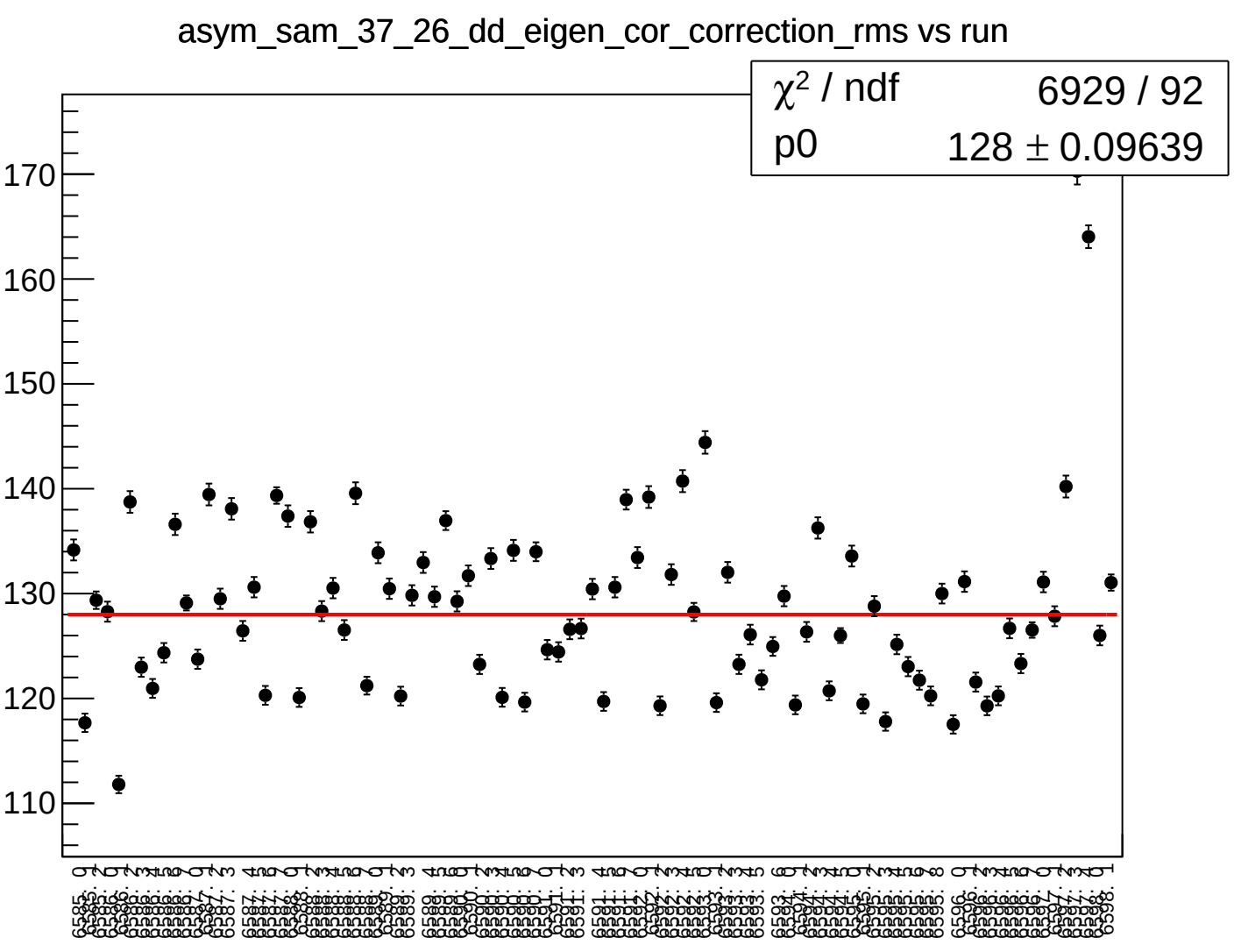

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 123 / 92
p0 14.78 ± 136.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 195
Std Dev 0
pull1D
Entries 93
Mean −0.008853
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

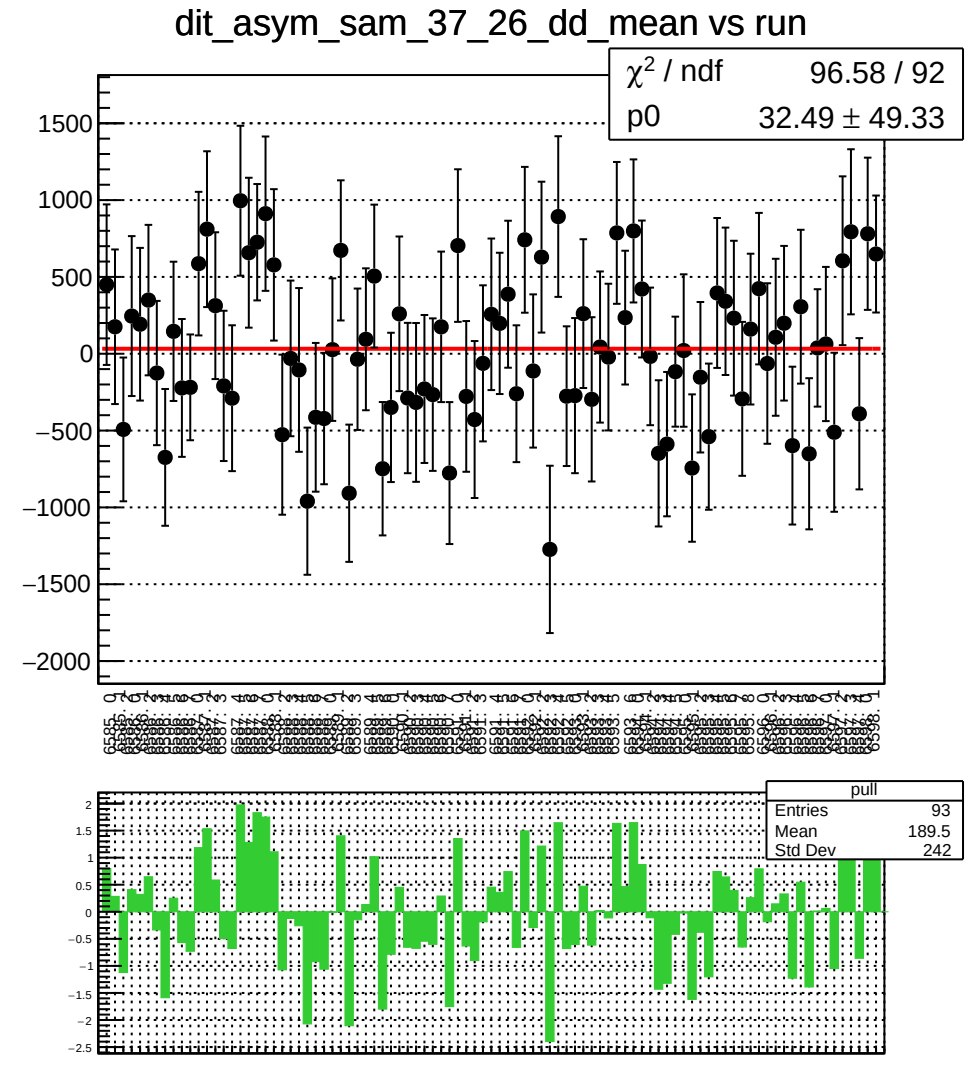

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 6929 / 92
p0 128 ± 0.09639
170
160
150
140
130
120
110

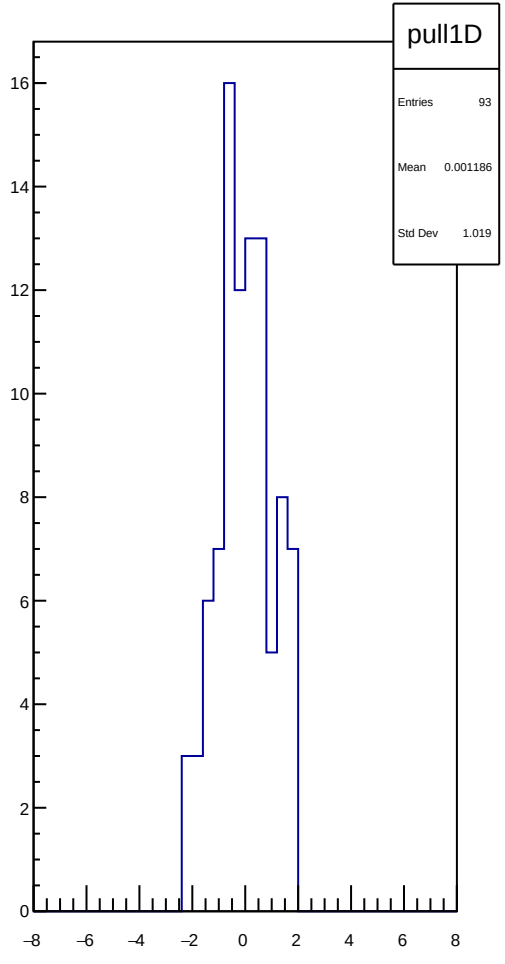

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 105.1 / 92
p0 57.77 ± 44.22
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 769.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0009931
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

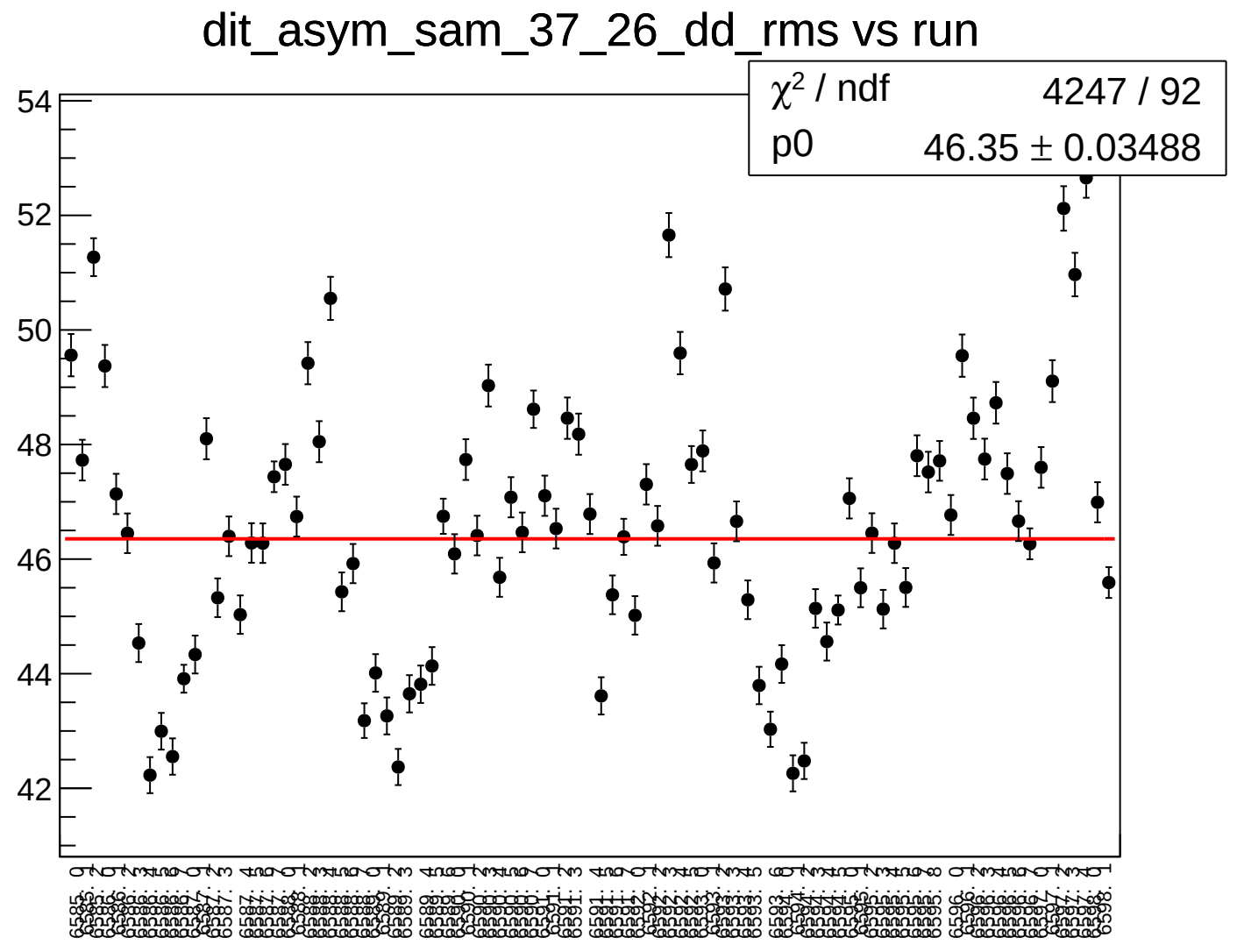

eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 3707 / 92
p0 41.56 ± 0.03127
48
46
44
42
40
38
36

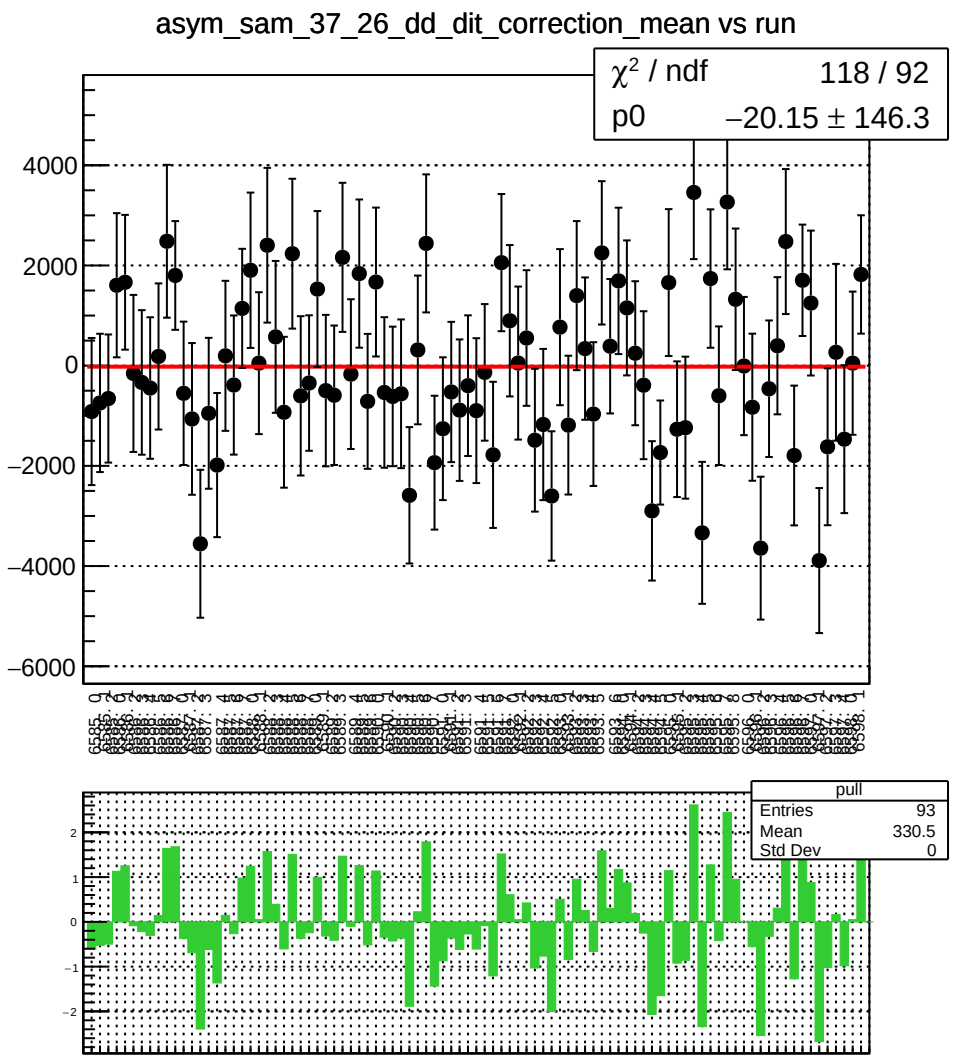

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 123 / 92
p0 14.78 ± 136.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 195
Std Dev 0
pull1D
Entries 93
Mean −0.008853
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

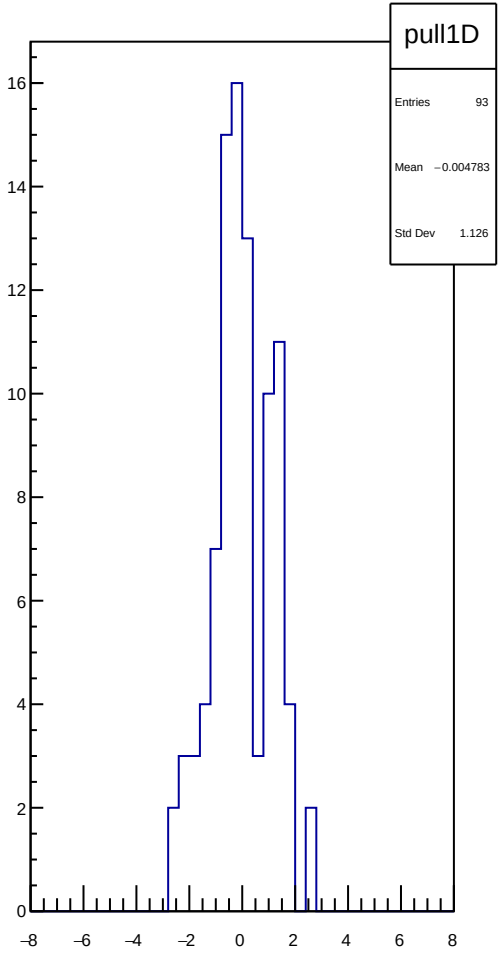

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6929 / 92
p0 128 ± 0.09639
170
160
150
140
130
120
110

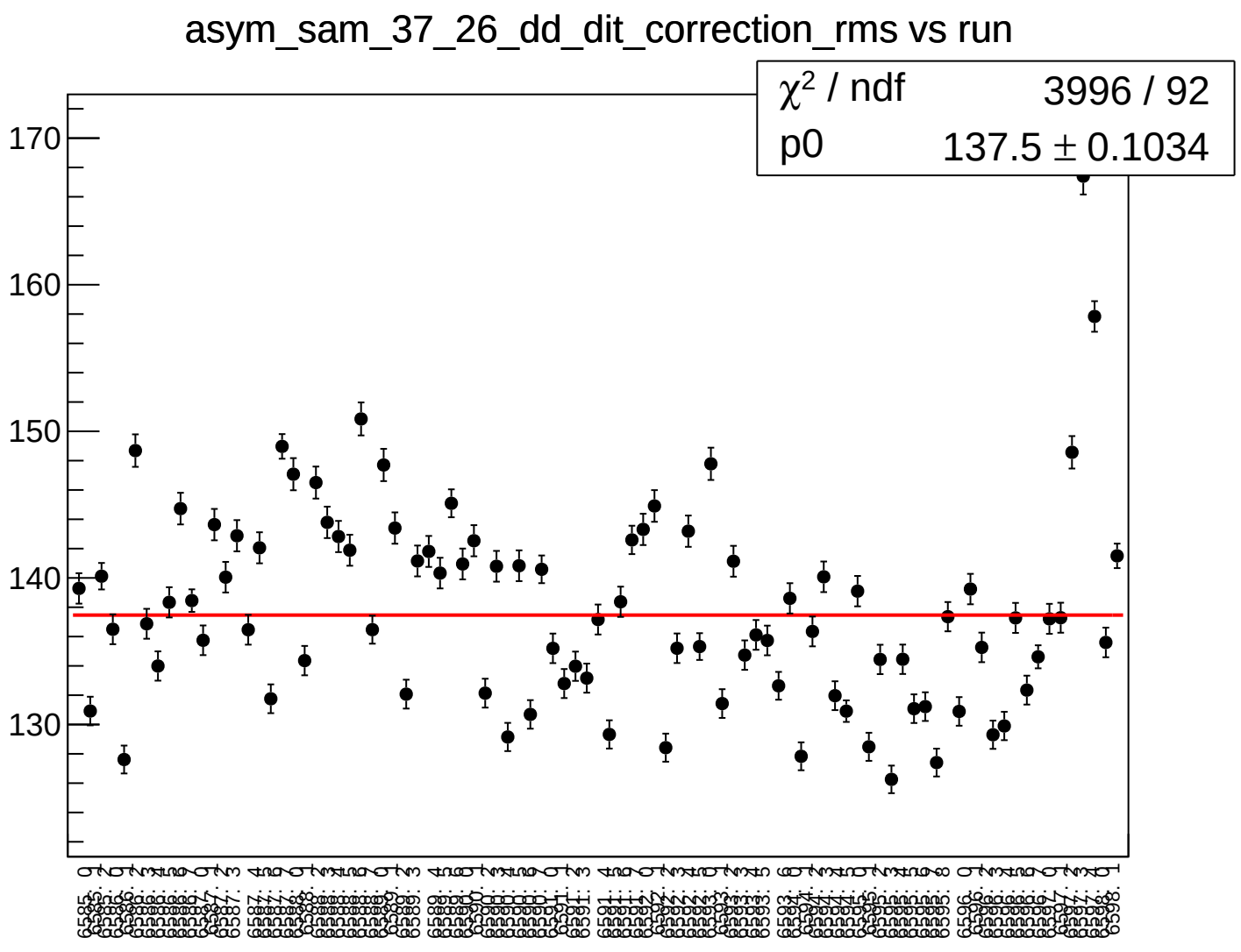

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 96.58 / 92
p0 32.49 ± 49.33
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 93
Mean 189.5
Std Dev 242
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

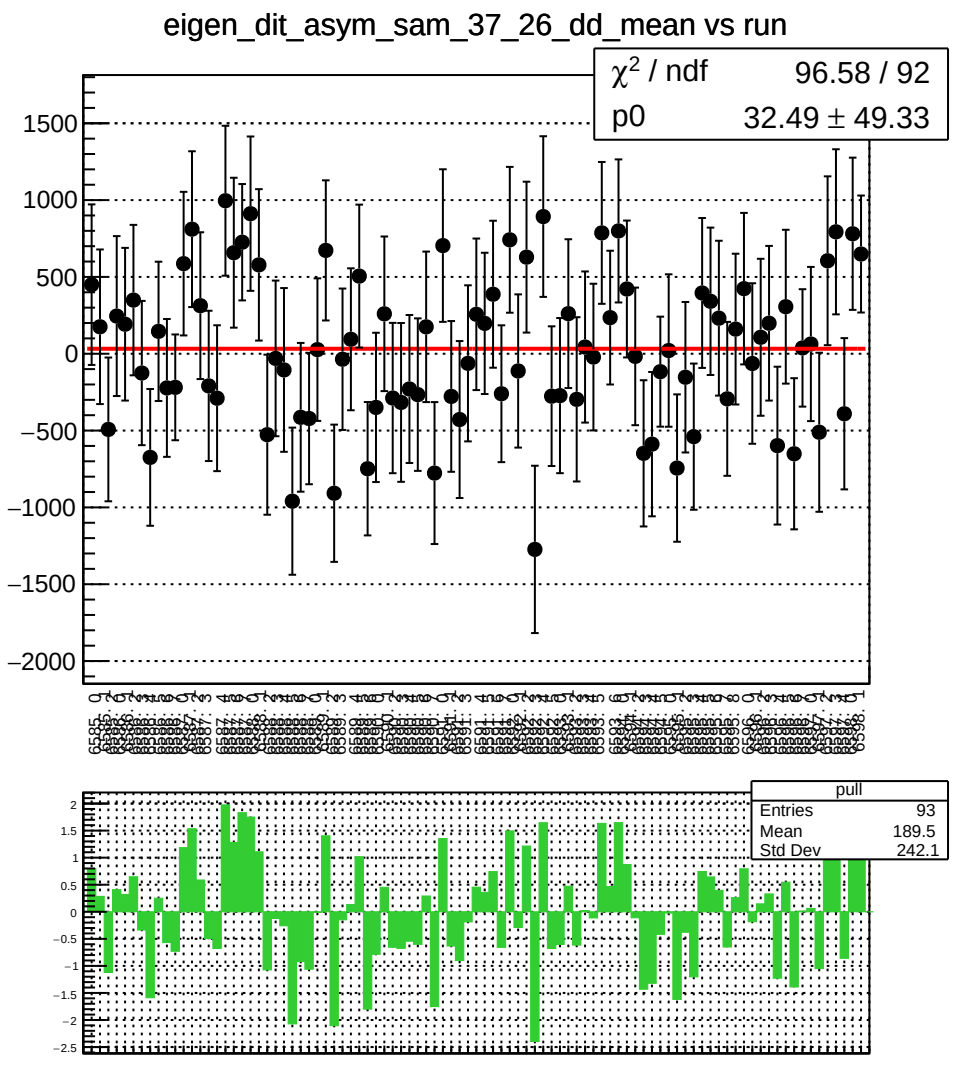

pull1D
Entries 93
Mean 0.001186
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

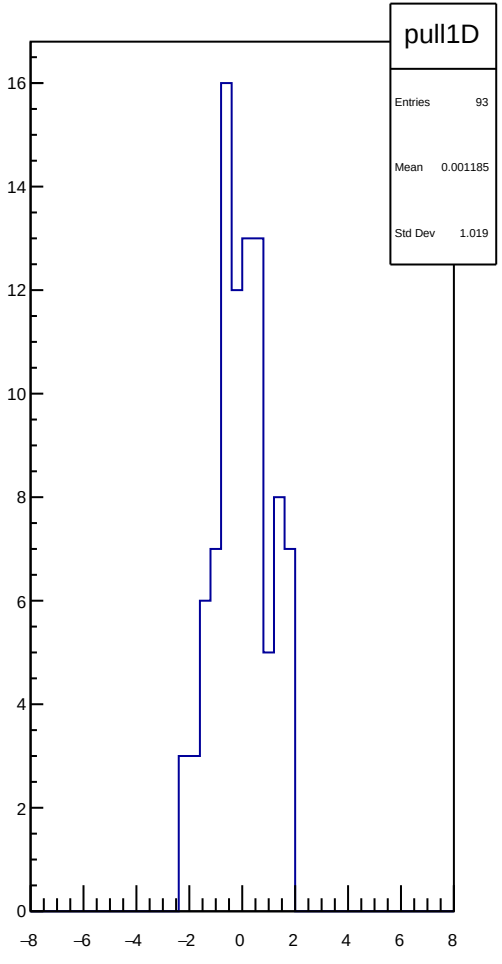

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 4247 / 92
p0 46.35 ± 0.03488
54
52
50
48
46
44
42

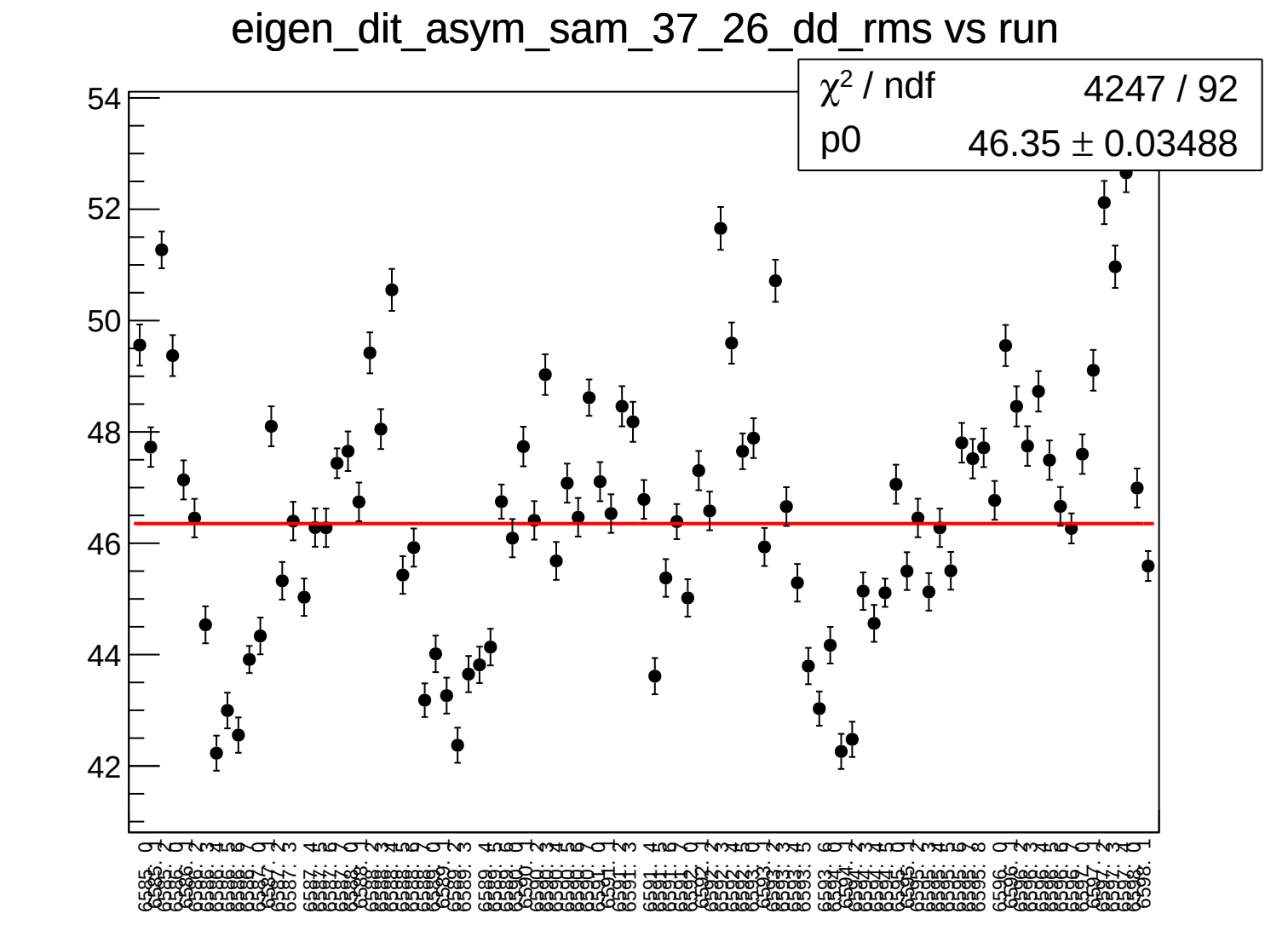

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 118 / 92
p0 −20.15 ± 146.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 330.5
Std Dev 0
2
1
0
−1
−2

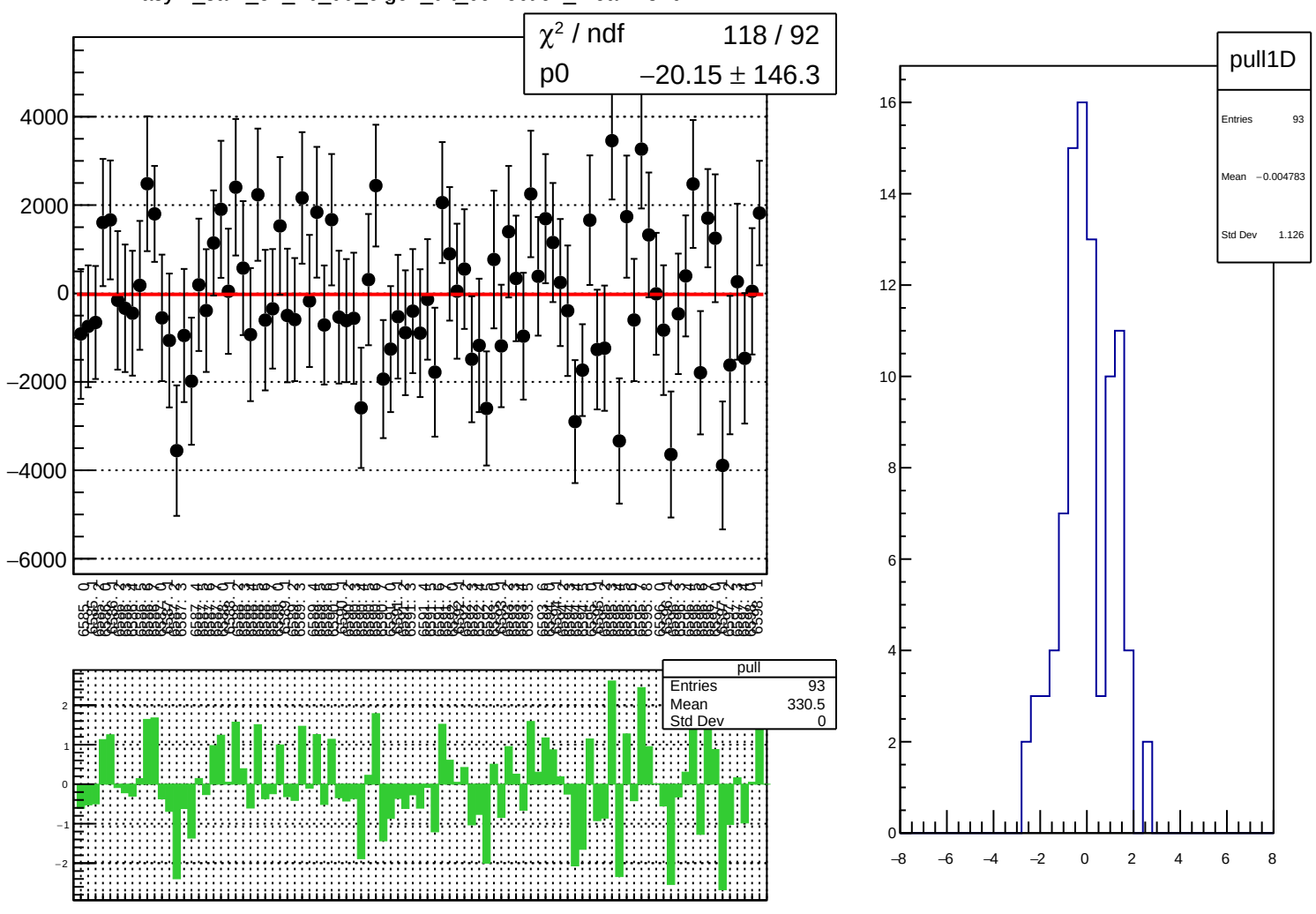

pull1D
Entries 93
Mean −0.004783
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

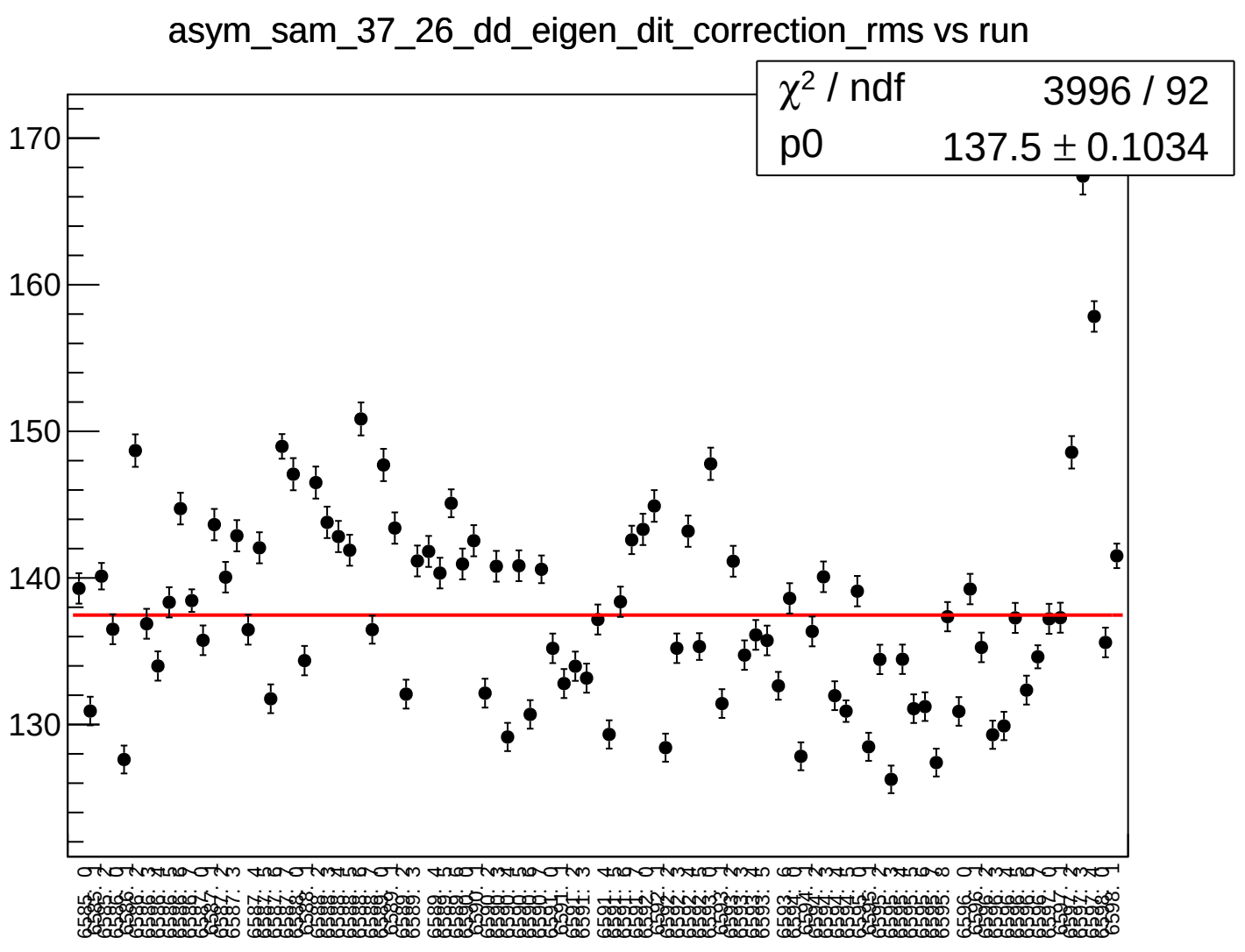

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3996 / 92
p0 137.5 ± 0.1034
170
160
150
140
130

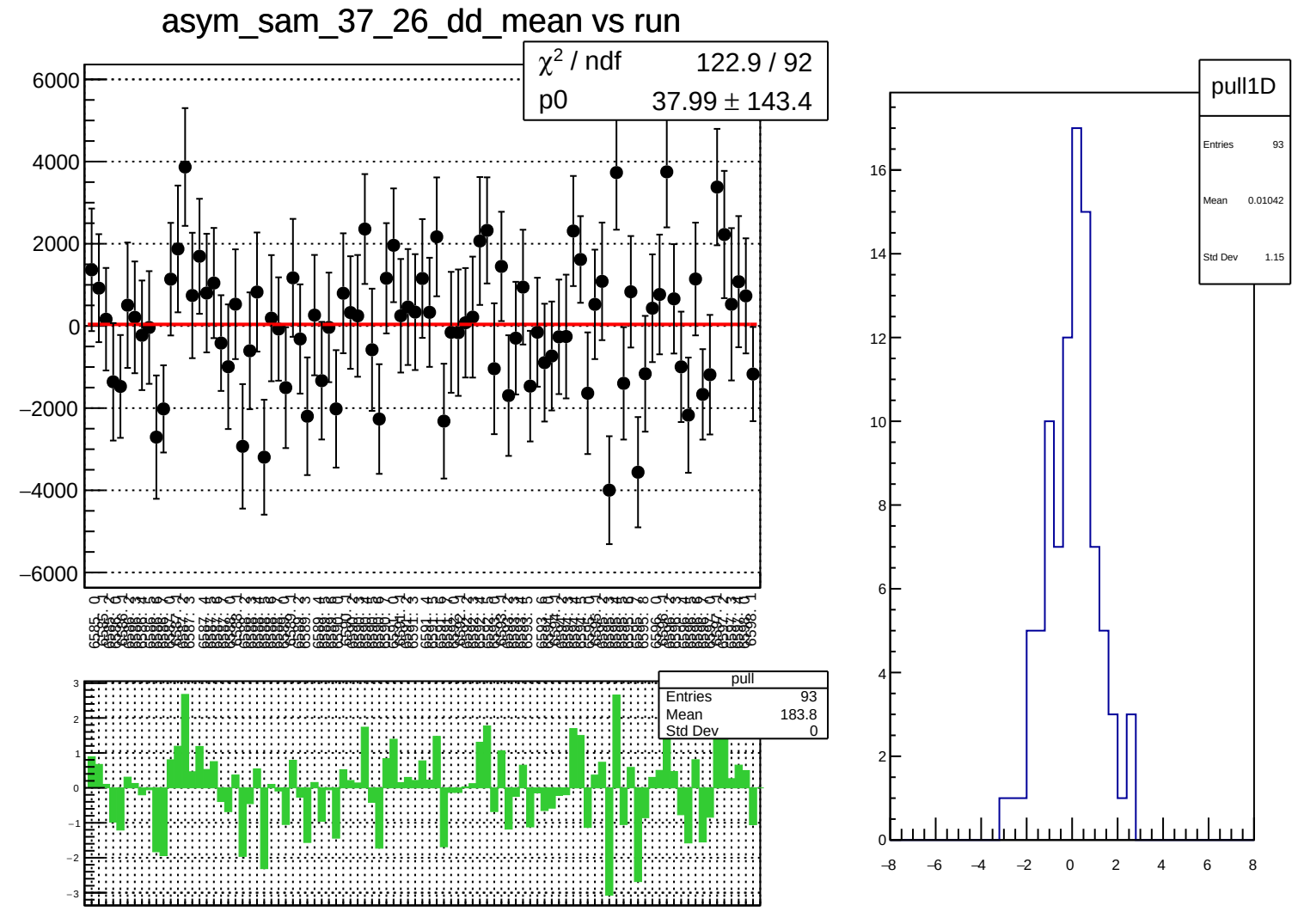

eigen_dit_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 96.58 / 92
p0 32.49 ± 49.33
pull
Entries 93
Mean 189.5
Std Dev 242.1

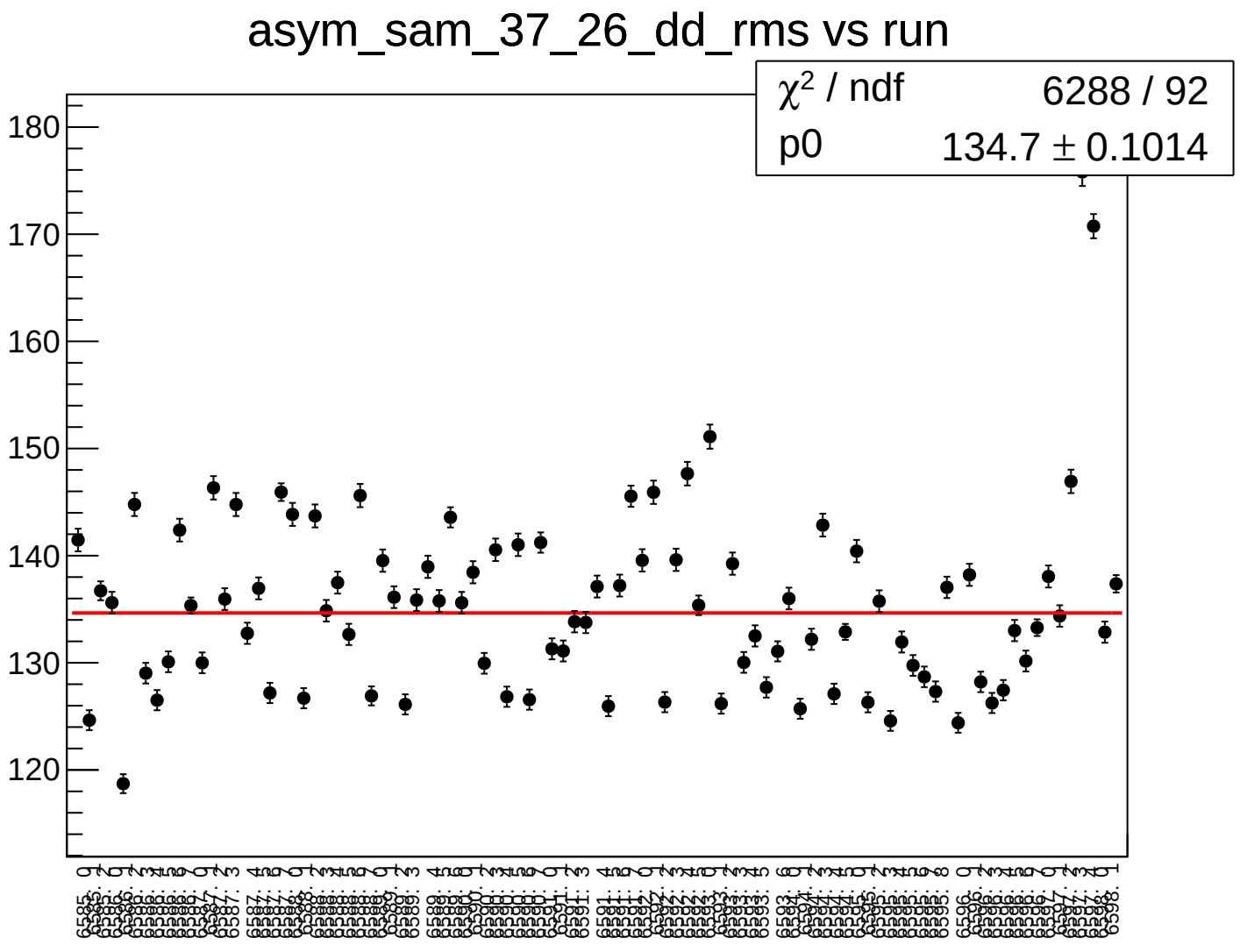

pull1D
Entries 93
Mean 0.001185
Std Dev 1.019

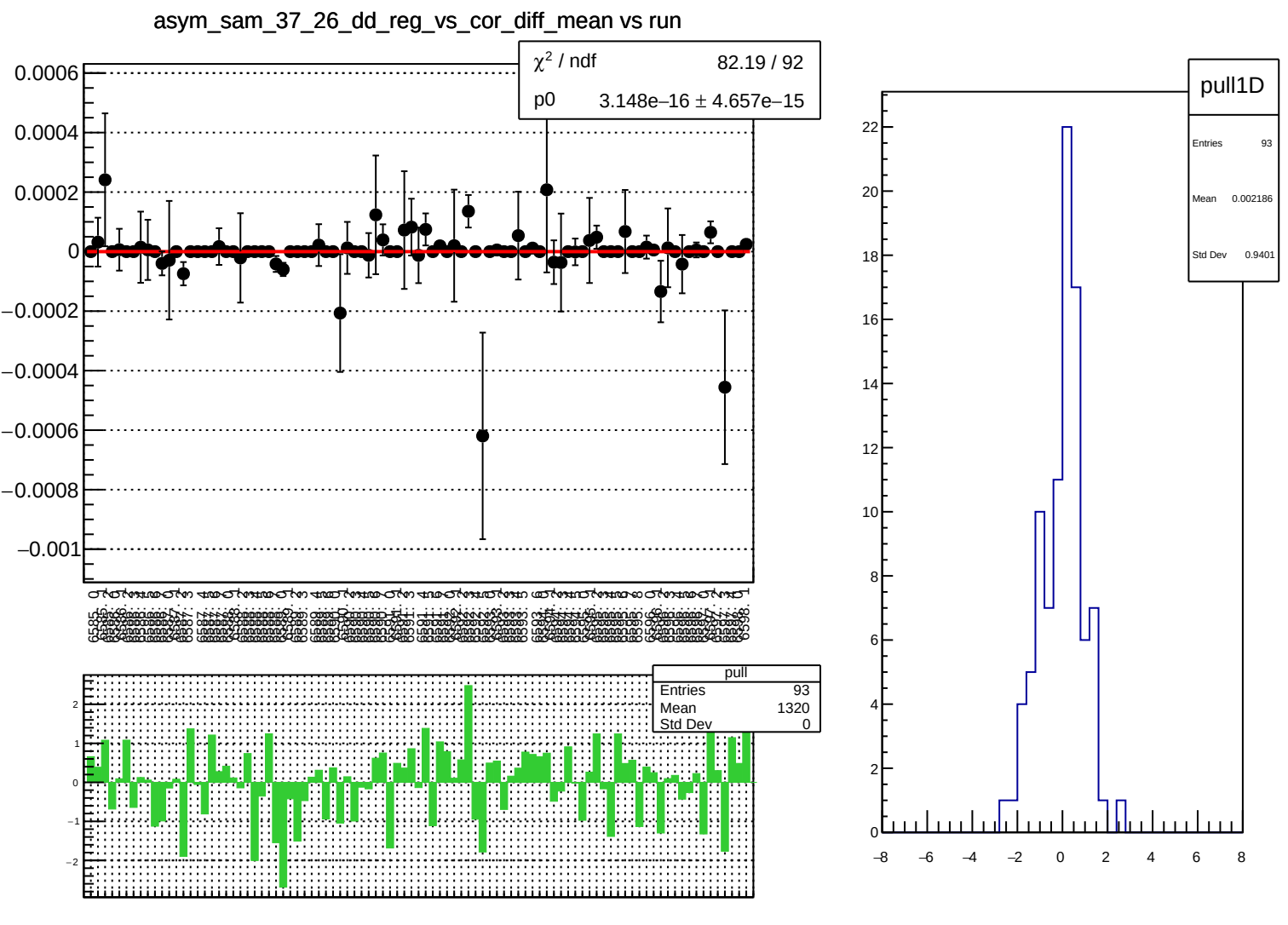

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 4247 / 92
p0 46.35 ± 0.03488
54
52
50
48
46
44
42

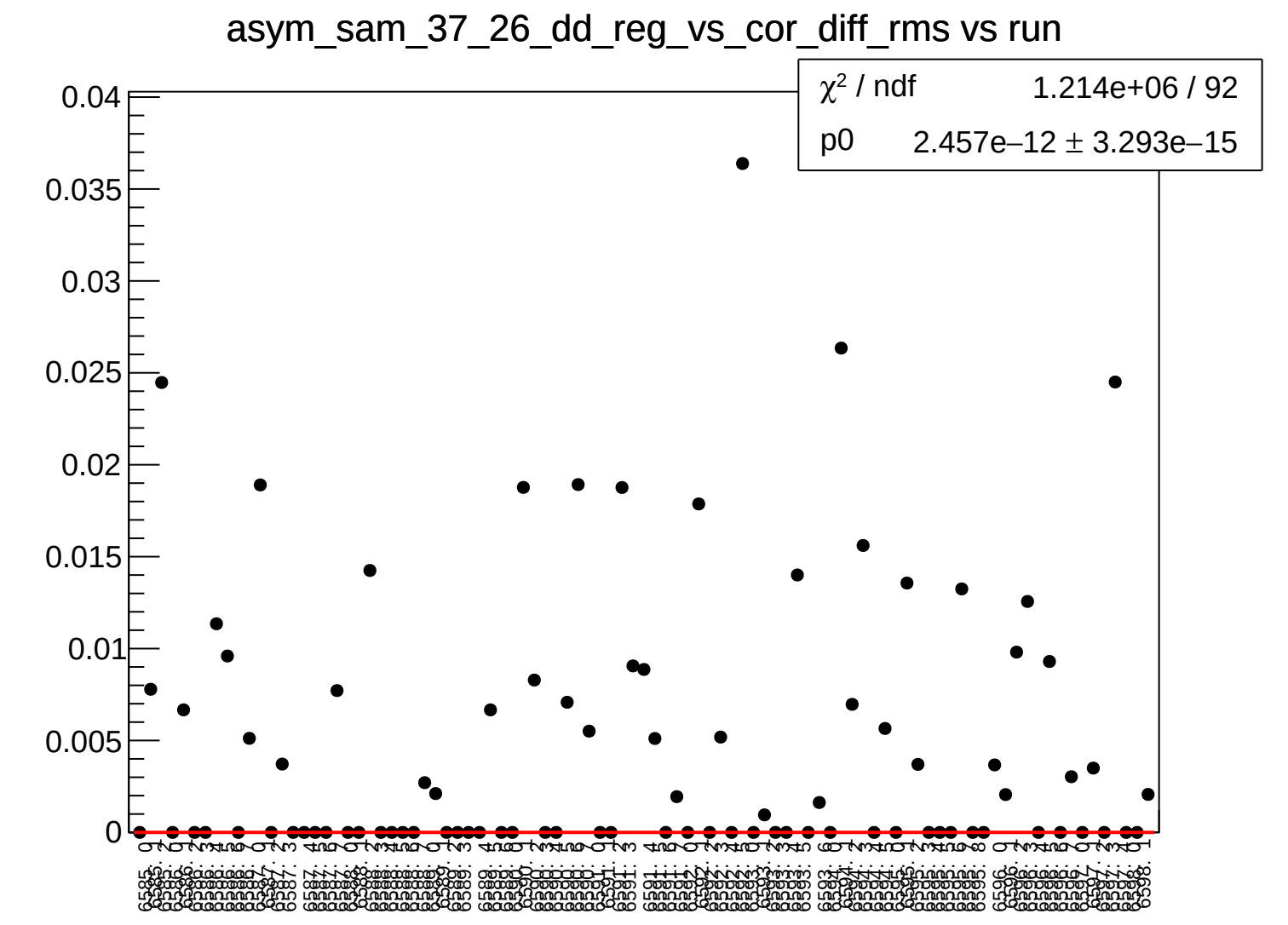

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 118 / 92
p0 −20.15 ± 146.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 330.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.004783
Std Dev 1.126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

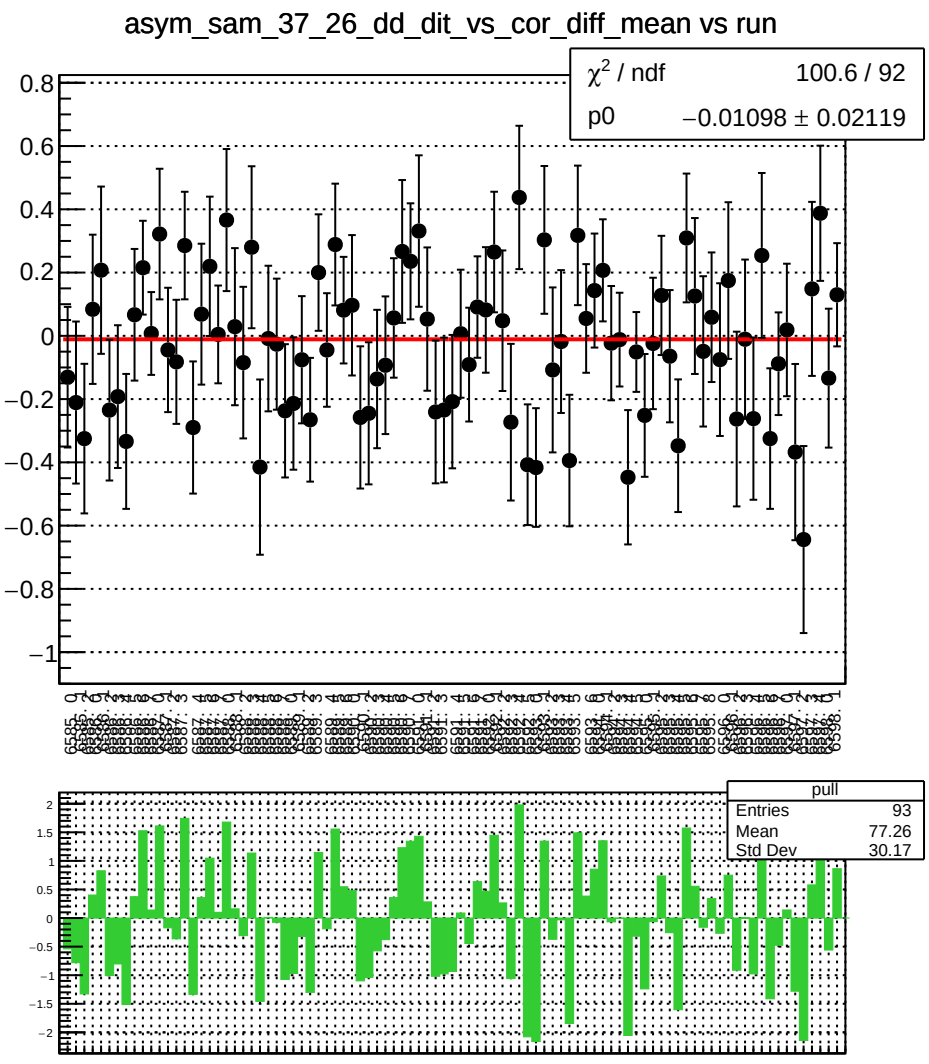

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3996 / 92
p0 137.5 ± 0.1034
170
160
150
140
130

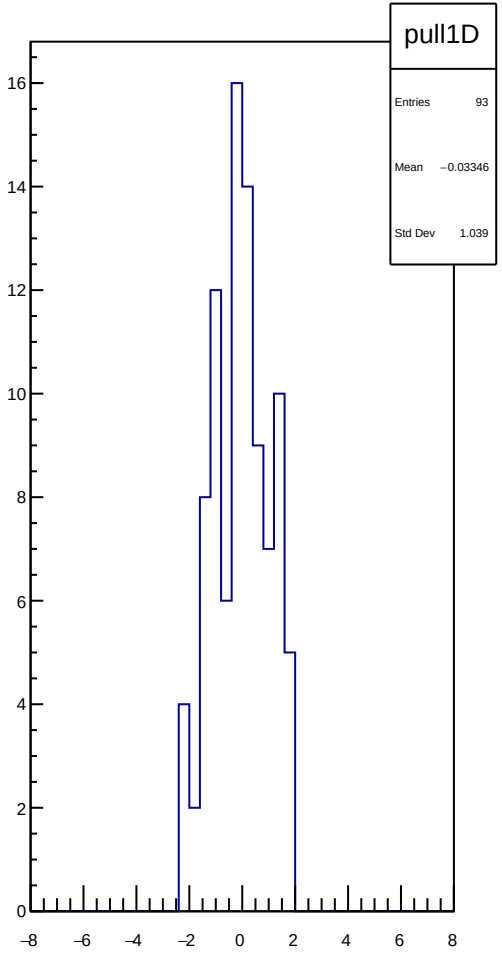

asym_sam_37_26_dd_mean vs run
χ² / ndf 122.9 / 92
p0 37.99 ± 143.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 183.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01042
Std Dev 1.15
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

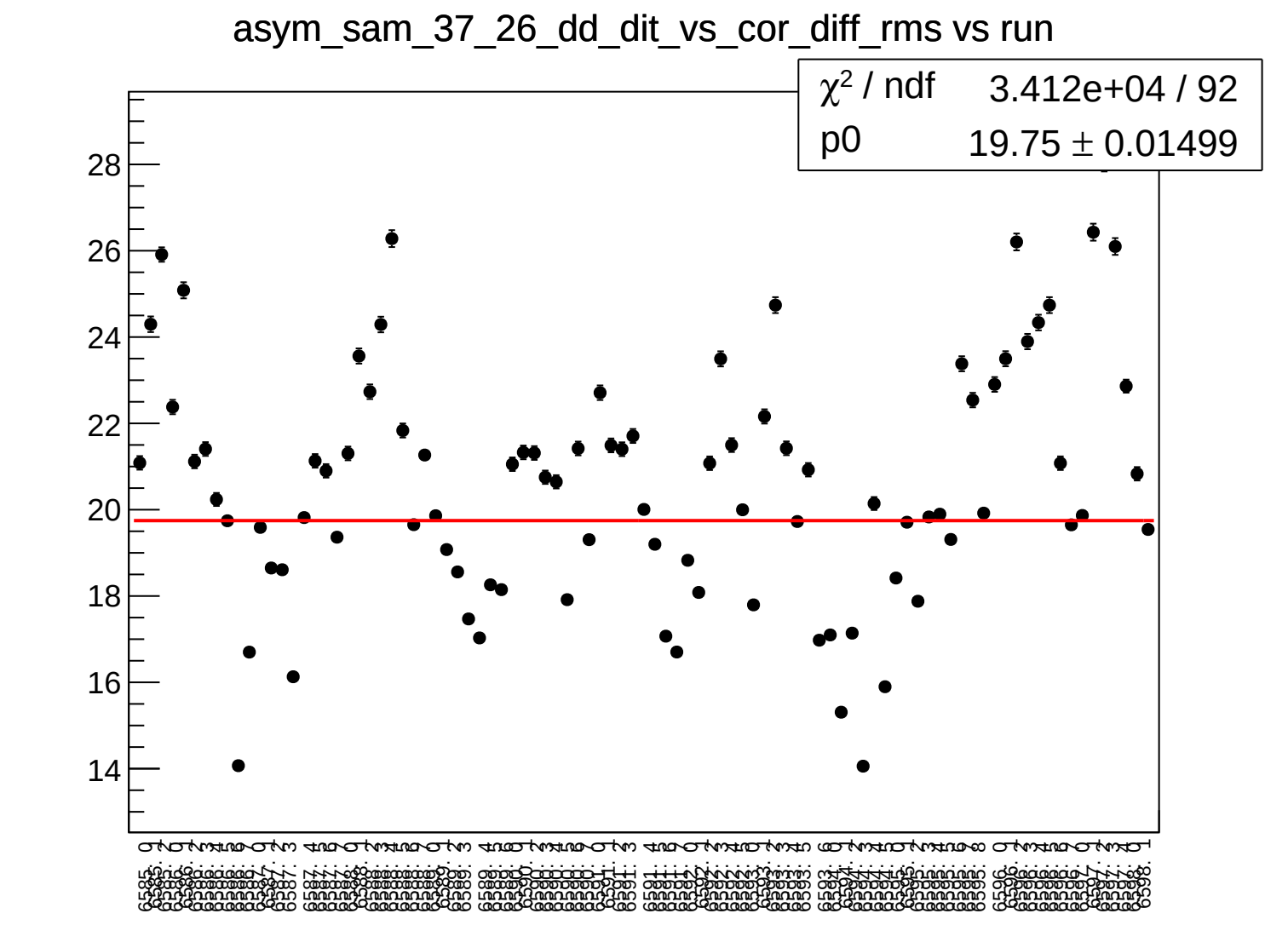

asym_sam_37_26_dd_rms vs run
χ² / ndf 6288 / 92
p0 134.7 ± 0.1014
180
170
160
150
140
130
120

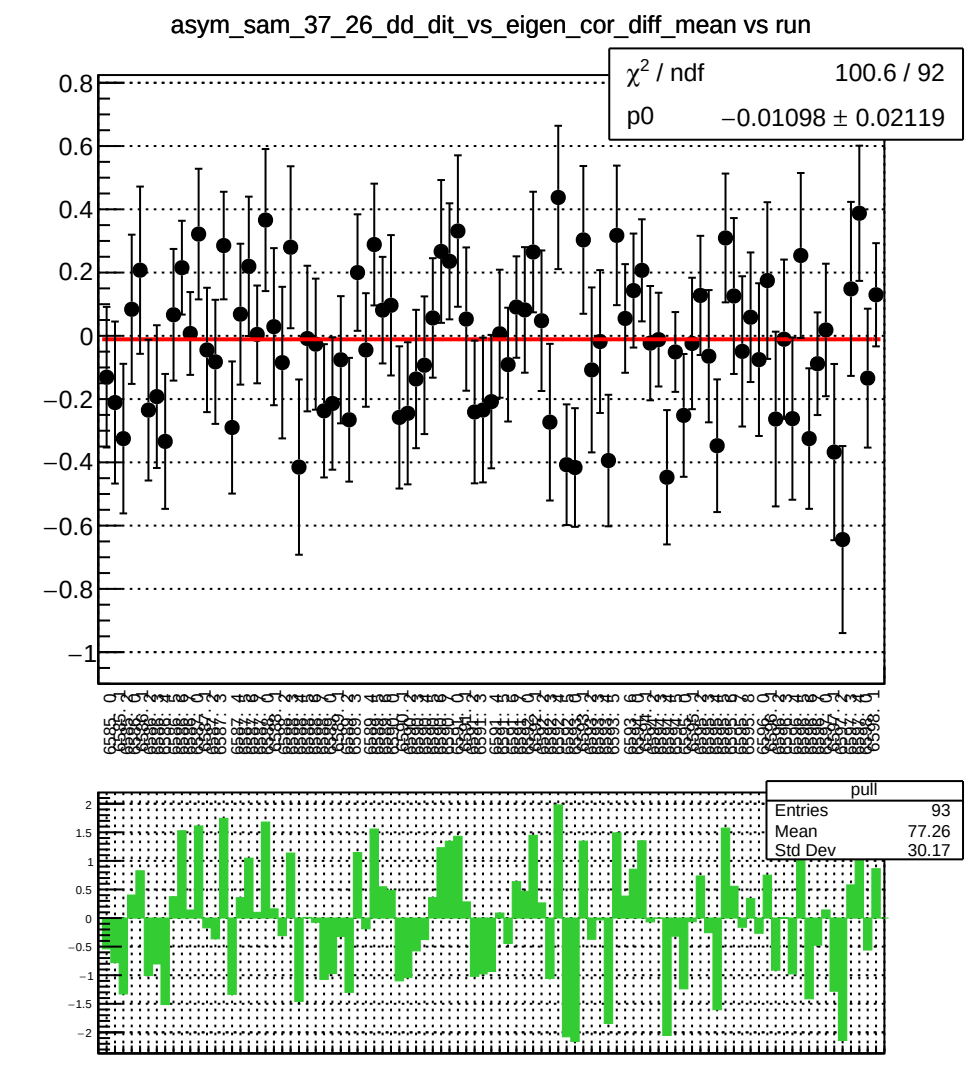

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.19 / 92
p0 3.148e−16 ± 4.657e−15
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 93
Mean 1320
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002186
Std Dev 0.9401
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

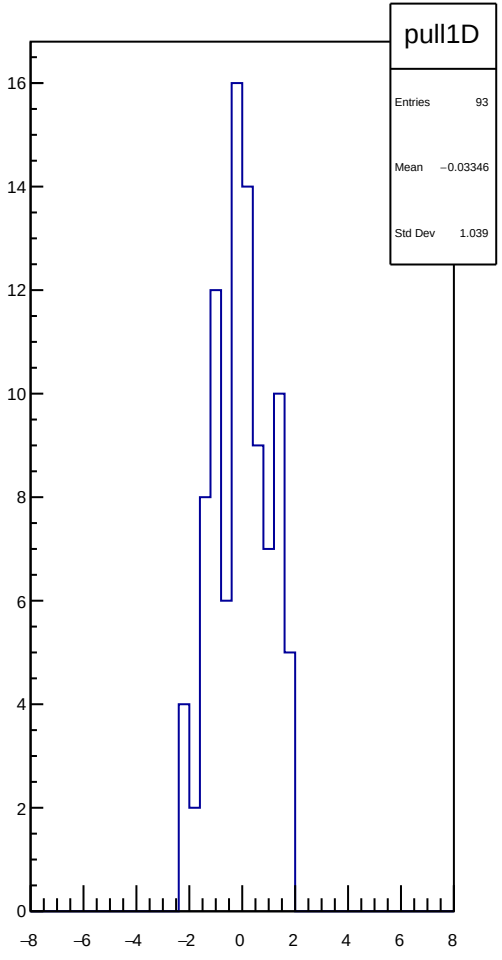

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.214e+06 / 92
p0 2.457e−12 ± 3.293e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

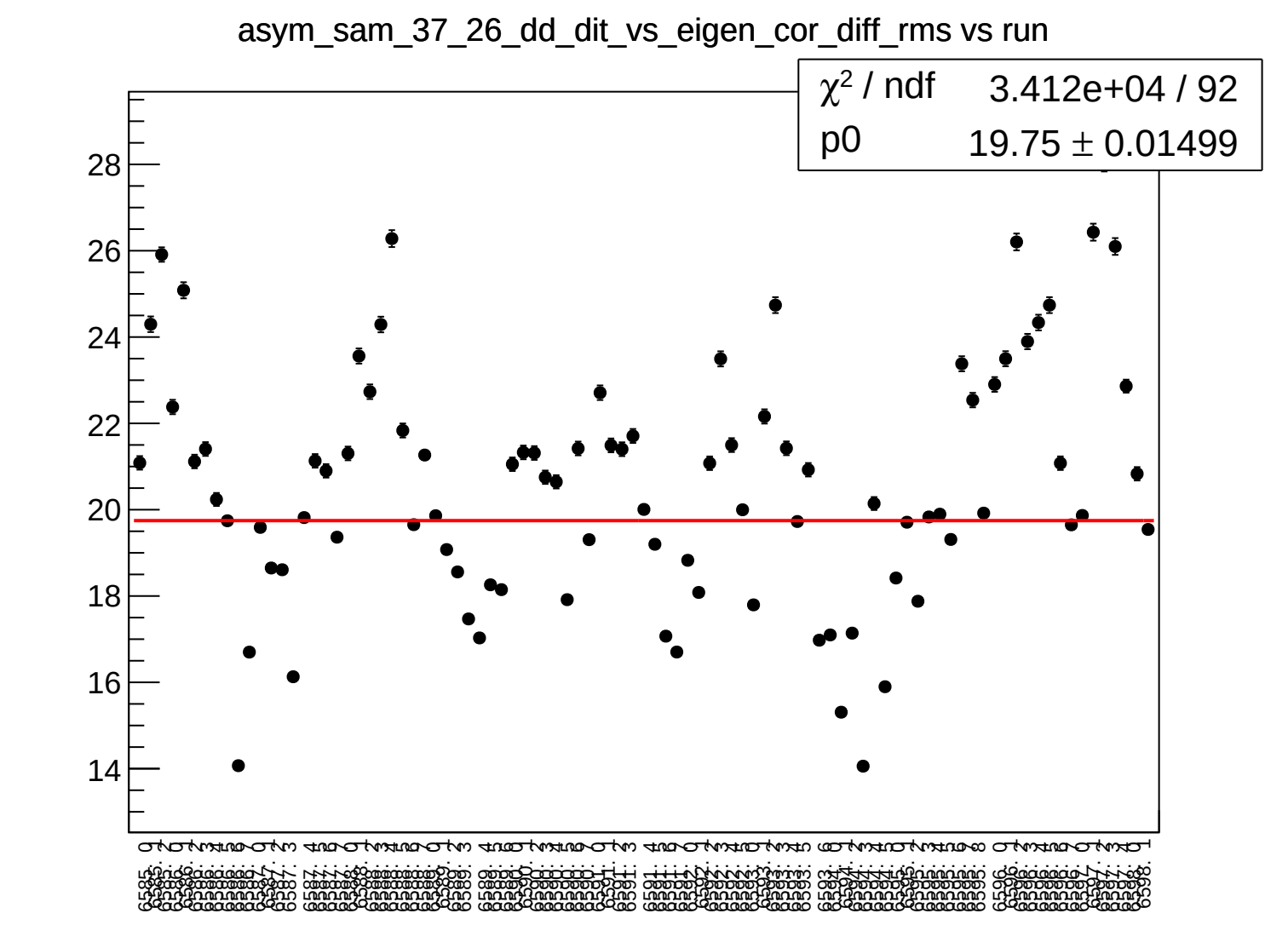

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 92
p0 −0.01098 ± 0.02119
pull
Entries 93
Mean 77.26
Std Dev 30.17

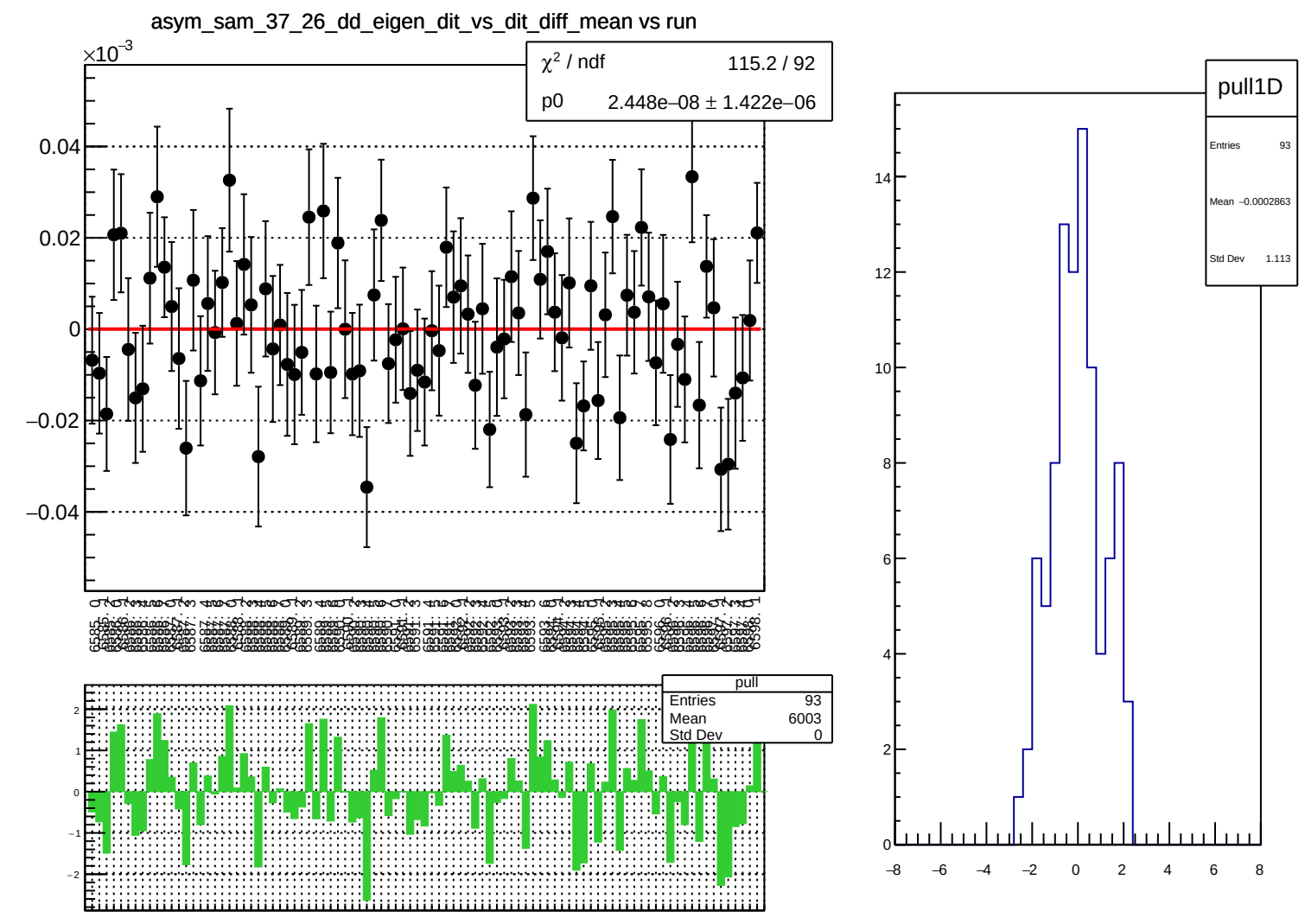

pull1D
Entries 93
Mean −0.03346
Std Dev 1.039

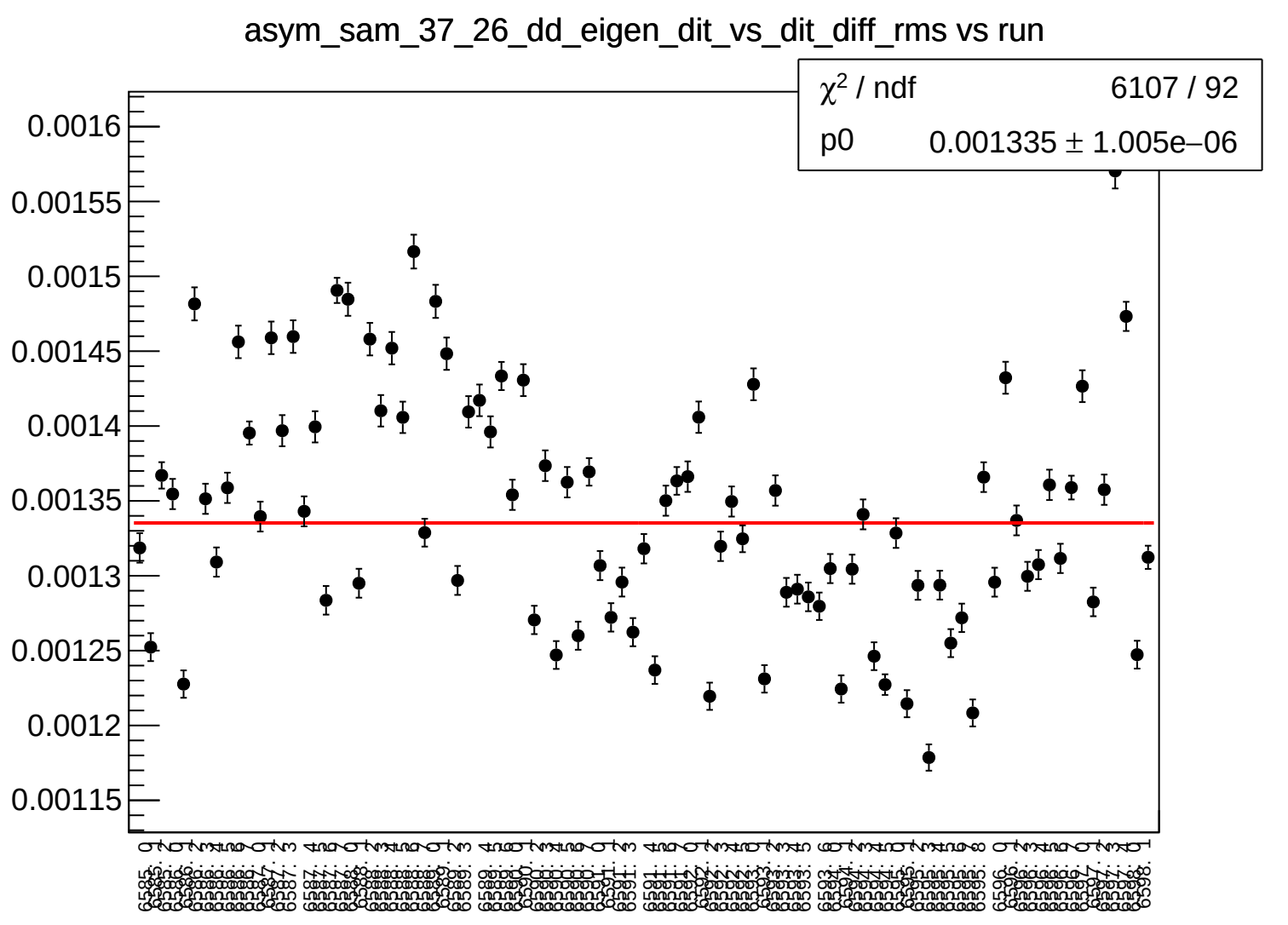

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.412e+04 / 92
p0 19.75 ± 0.01499
28
26
24
22
20
18
16
14

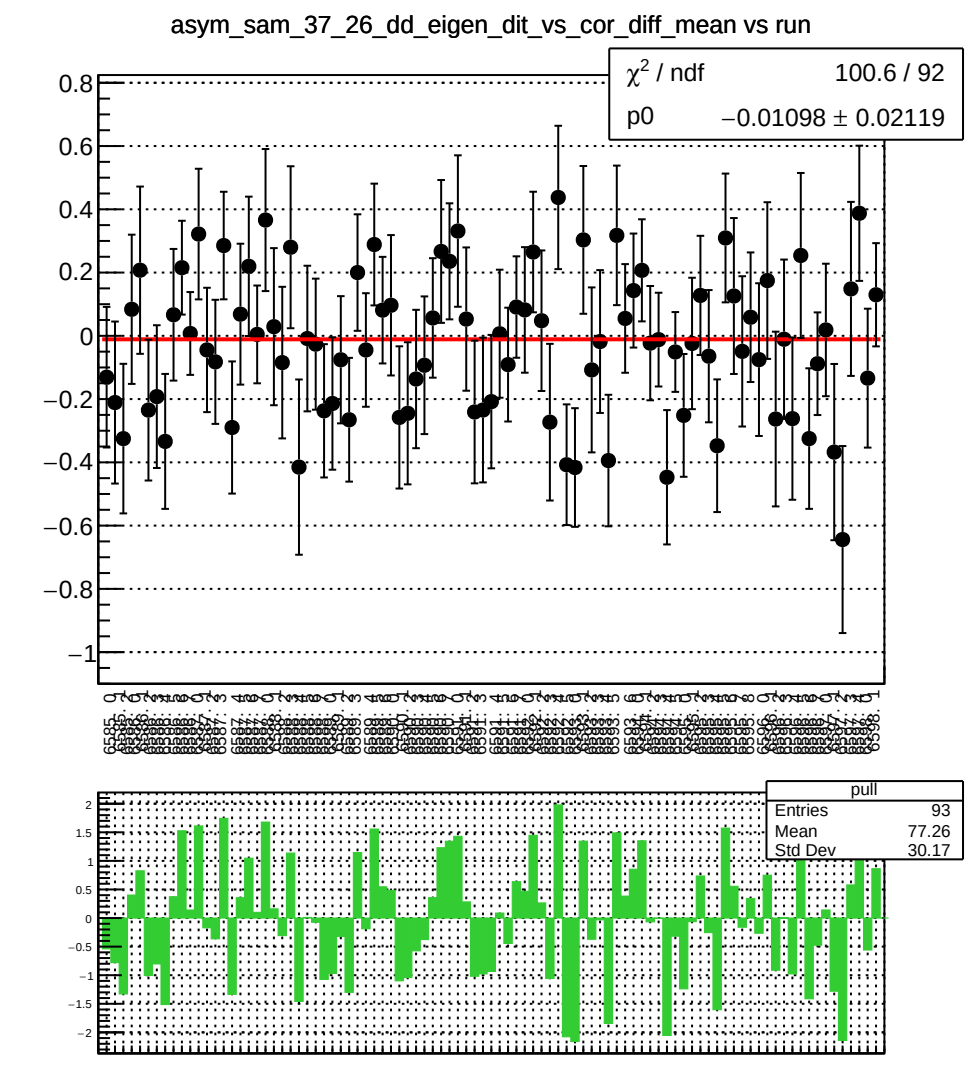

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.6 / 92
p0 −0.01098 ± 0.02119
pull
Entries 93
Mean 77.26
Std Dev 30.17

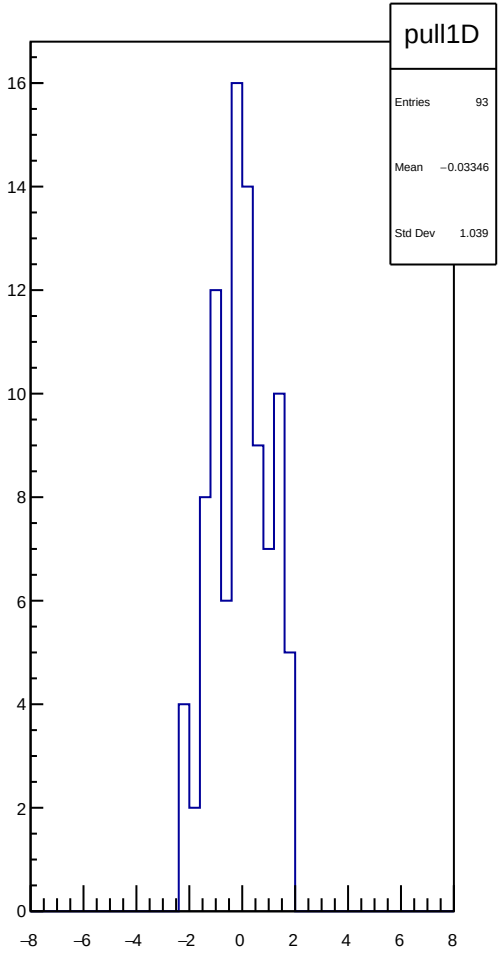

pull1D
Entries 93
Mean −0.03346
Std Dev 1.039

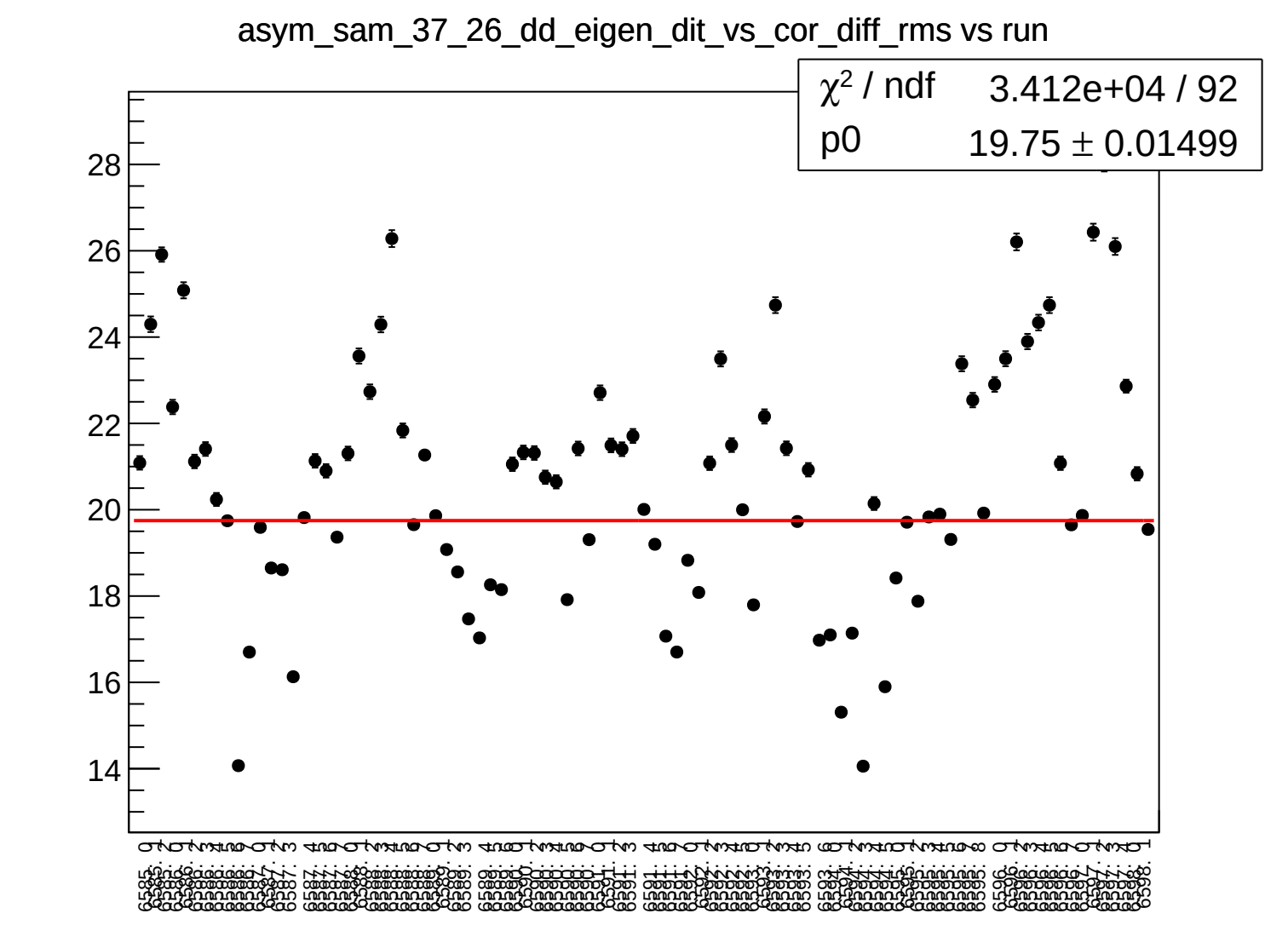

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.412e+04 / 92
p0 19.75 ± 0.01499
28
26
24
22
20
18
16
14


asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.2 / 92
p0 2.448e−08 ± 1.422e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean 6003
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0002863
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

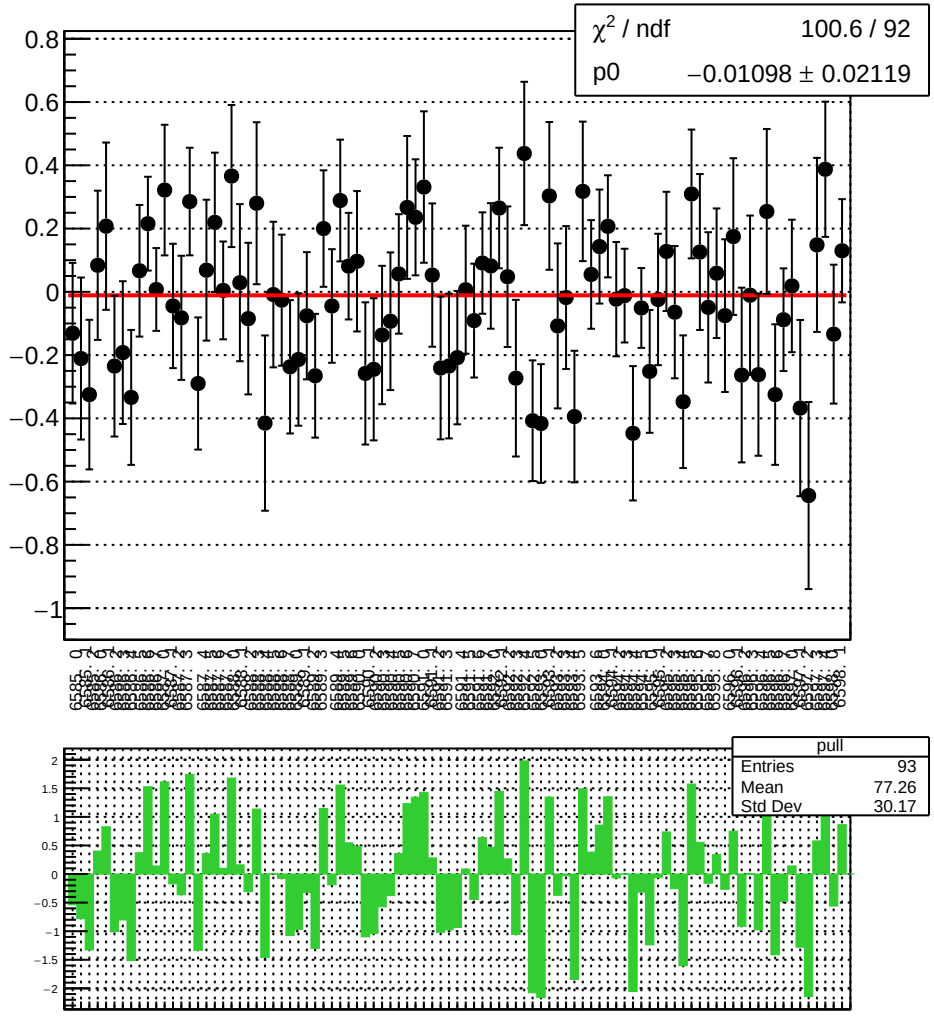

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6107 / 92
p0 0.001335 ± 1.005e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115

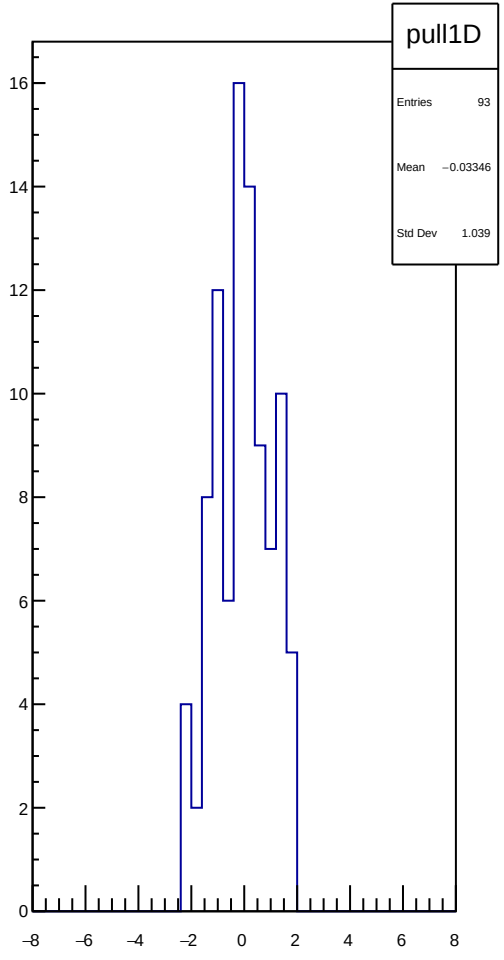

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 92
p0 −0.01098 ± 0.02119
pull
Entries 93
Mean 77.26
Std Dev 30.17

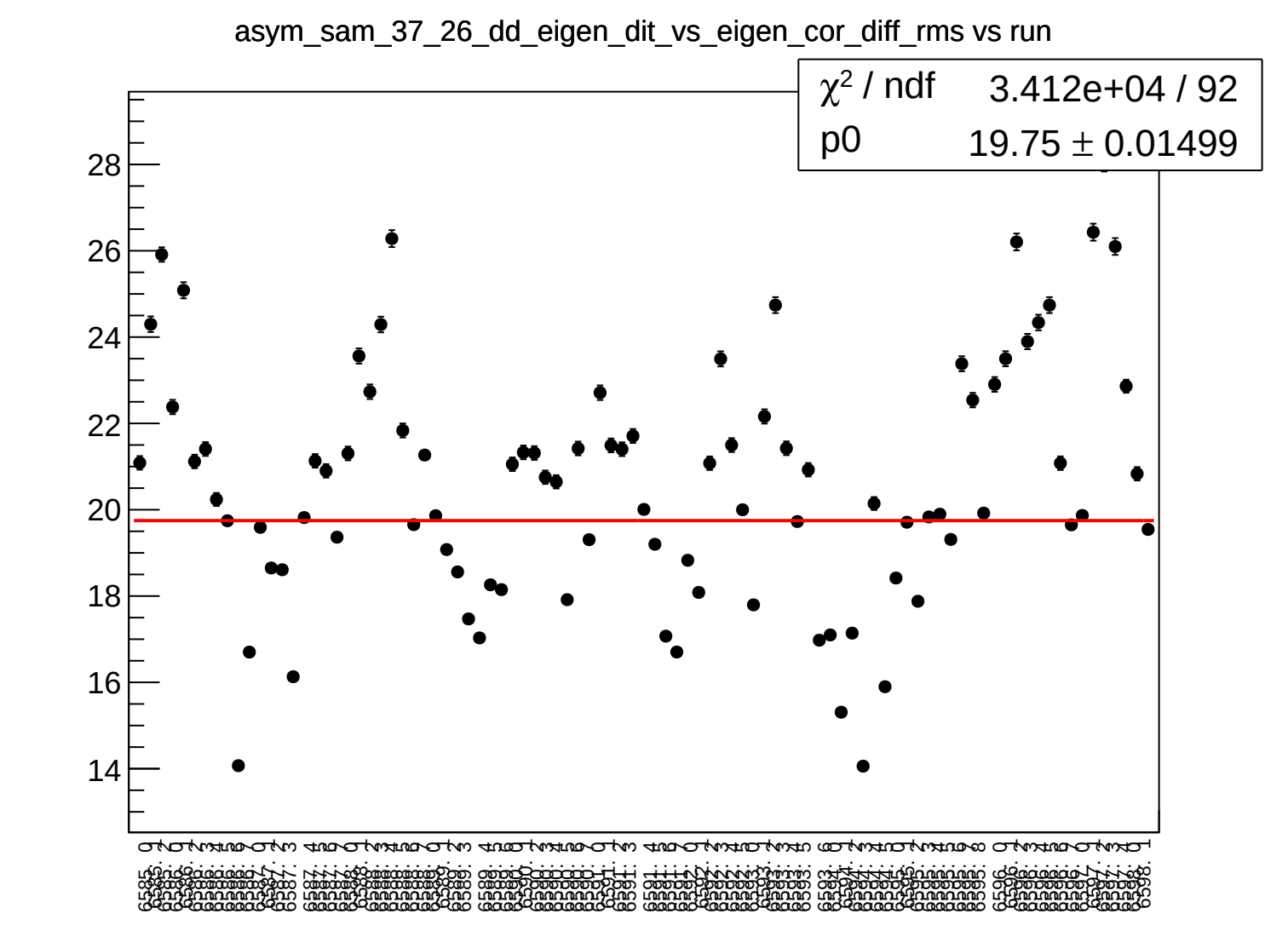

pull1D
Entries 93
Mean −0.03346
Std Dev 1.039

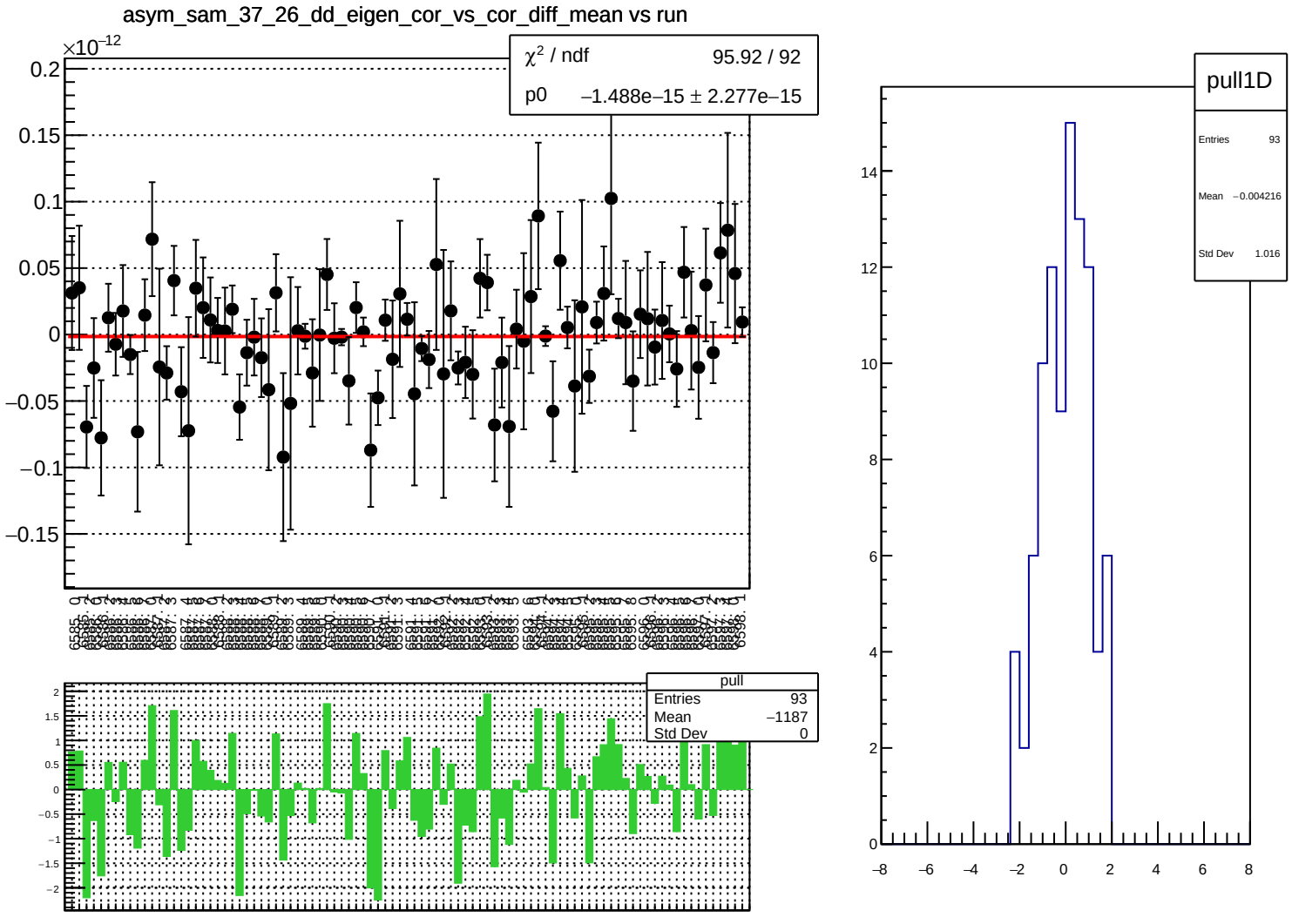

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.412e+04 / 92
p0 19.75 ± 0.01499
28
26
24
22
20
18
16
14

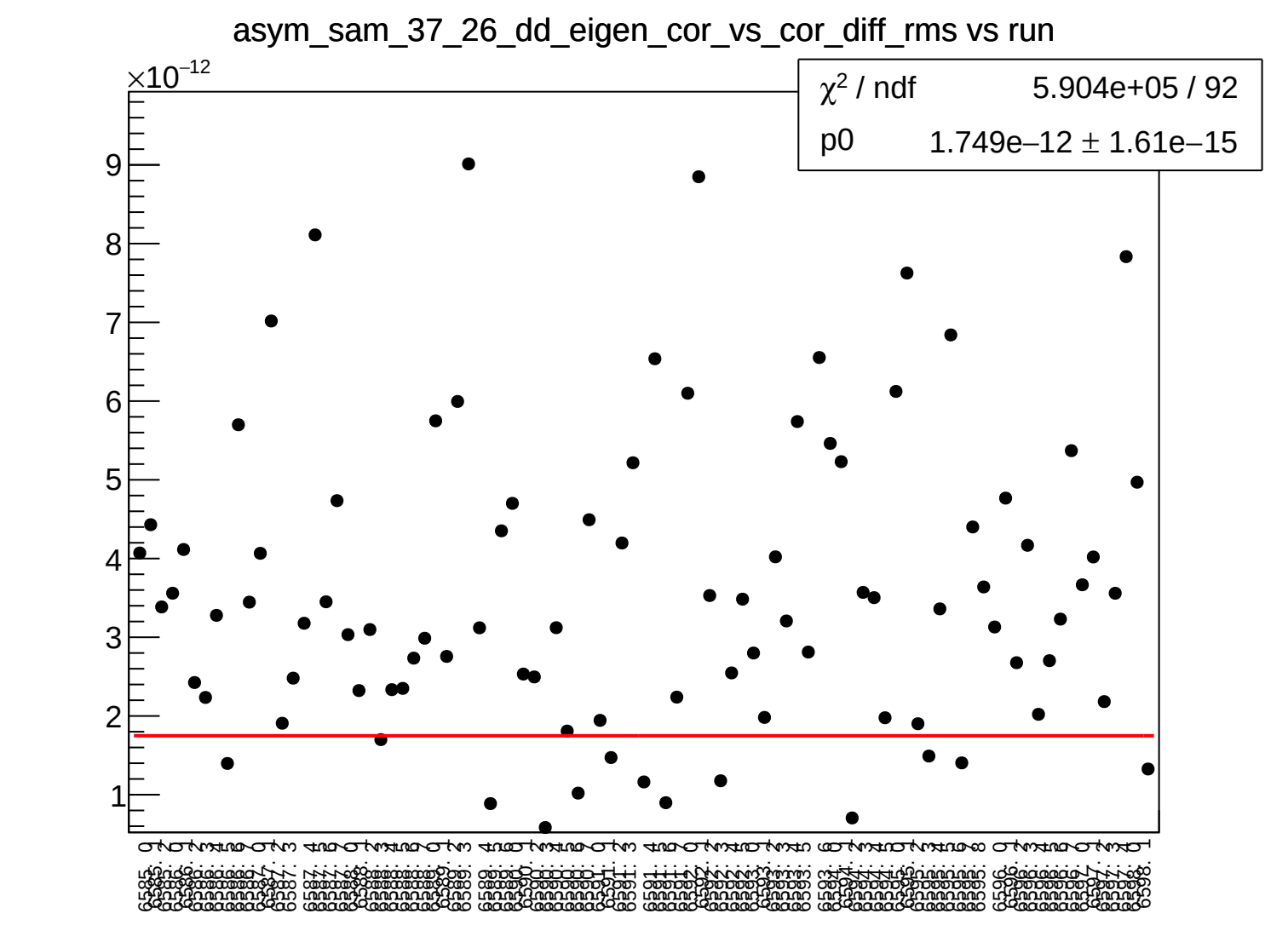
asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

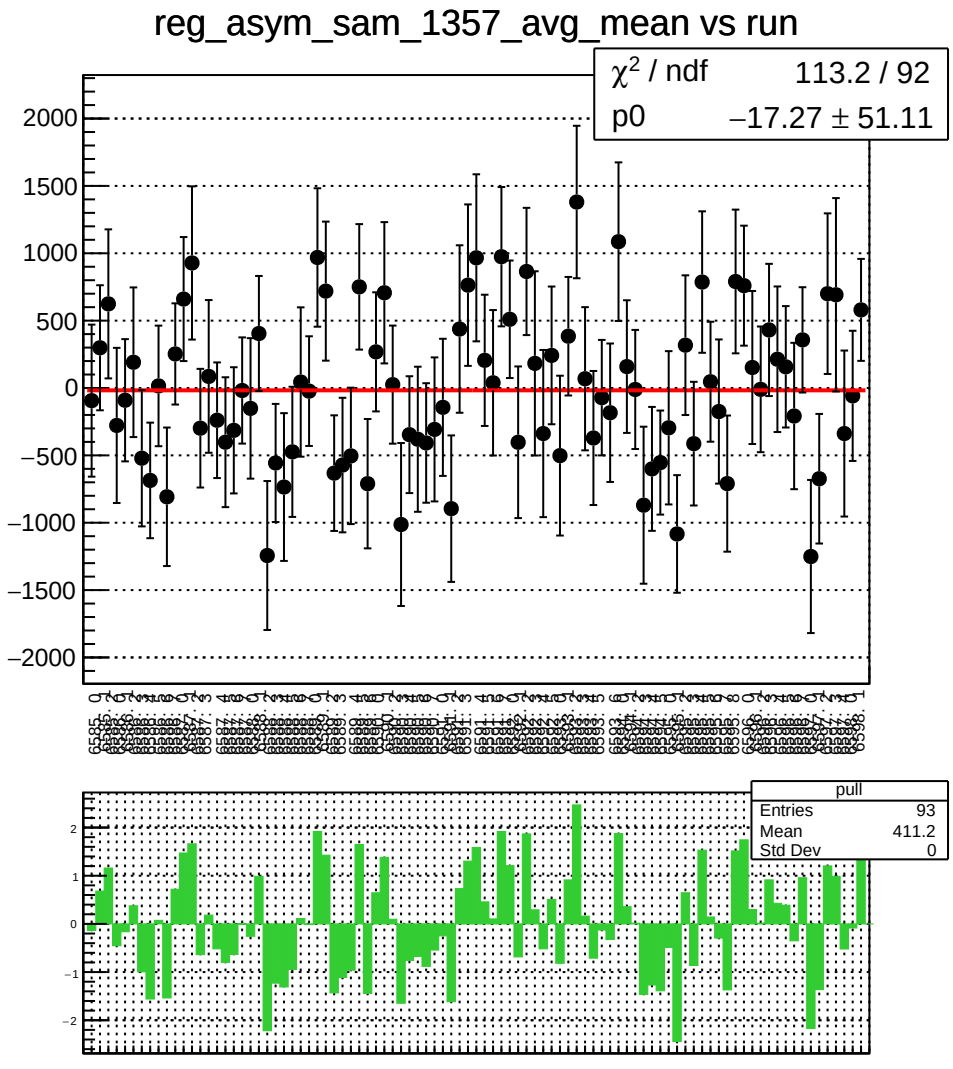


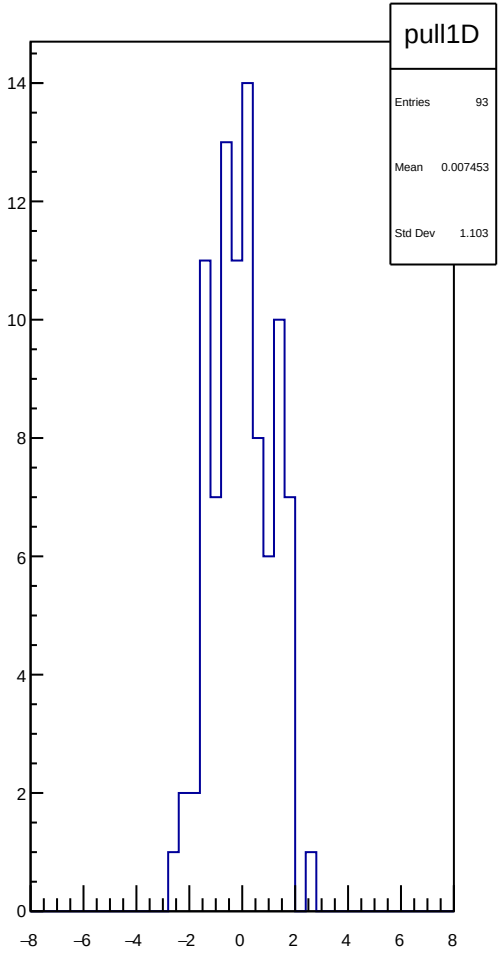


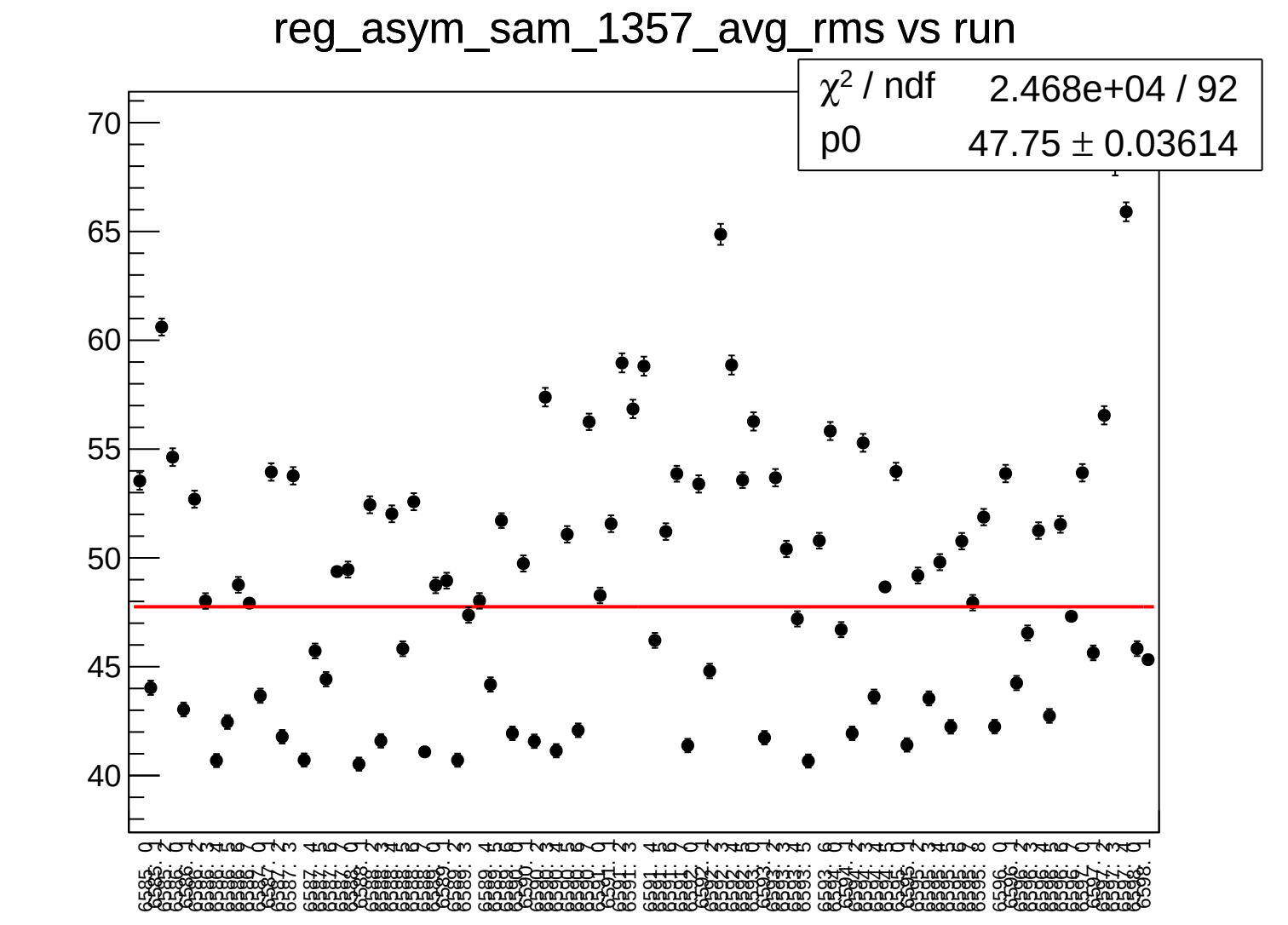

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.412e+04 / 92
p0 19.75 ± 0.01499
28
26
24
22
20
18
16
14

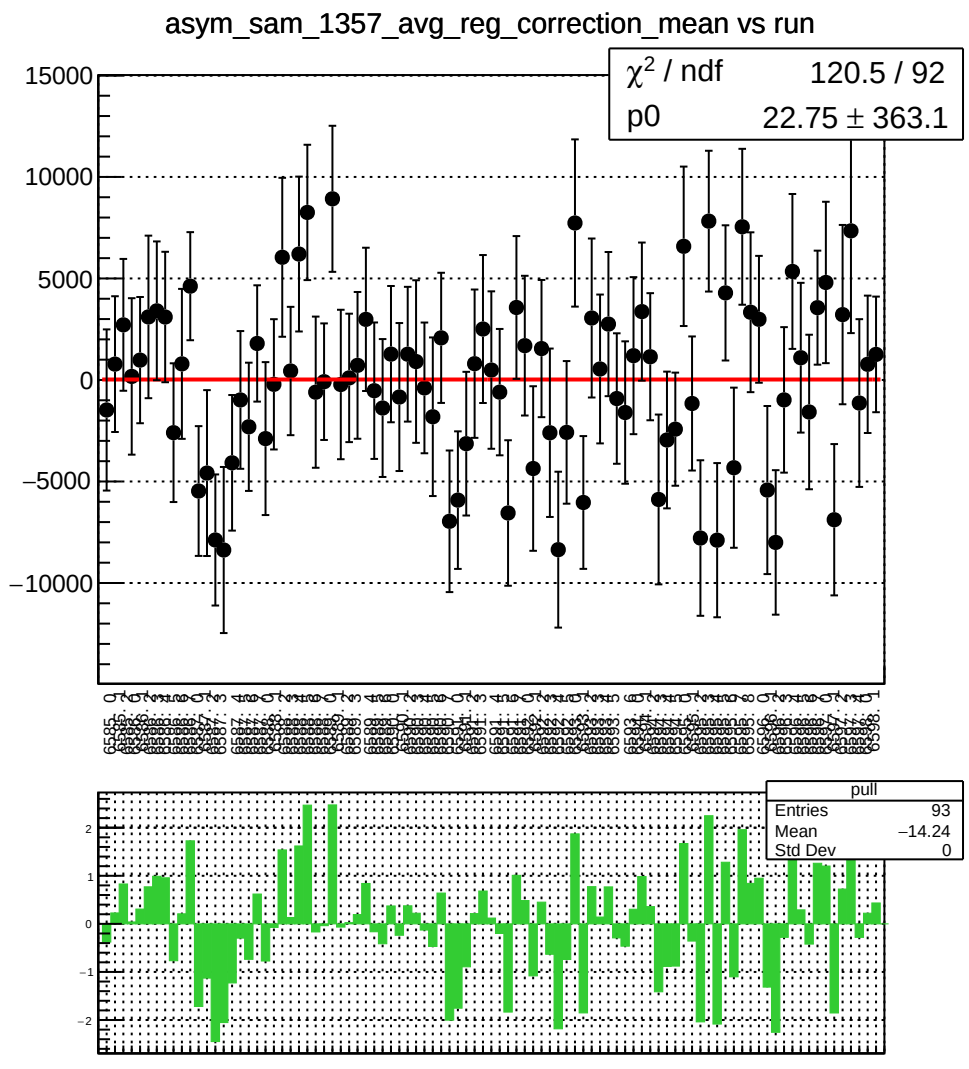

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.92 / 92
p0 −1.488e−15 ± 2.277e−15
pull
Entries 93
Mean −1187
Std Dev 0
pull1D
Entries 93
Mean −0.004216
Std Dev 1.016

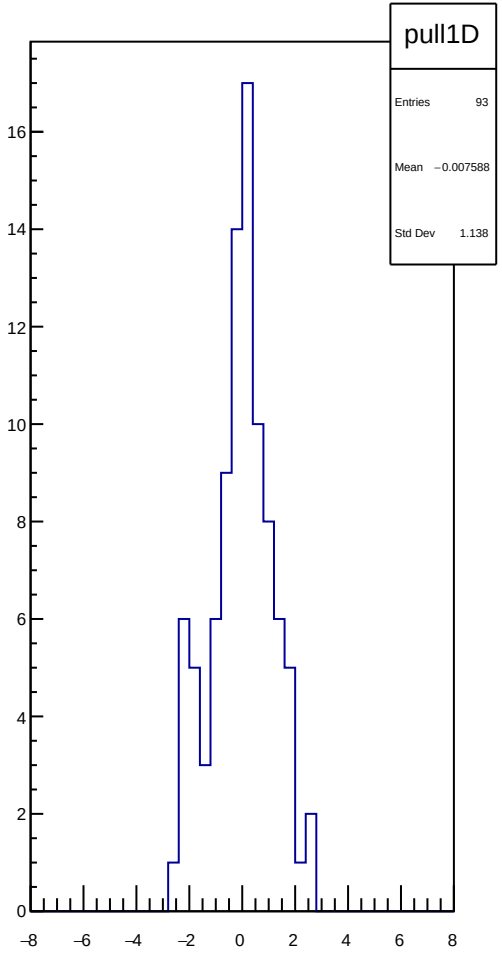

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.904e+05 / 92
p0 1.749e−12 ± 1.61e−15
9
8
7
6
5
4
3
2
1

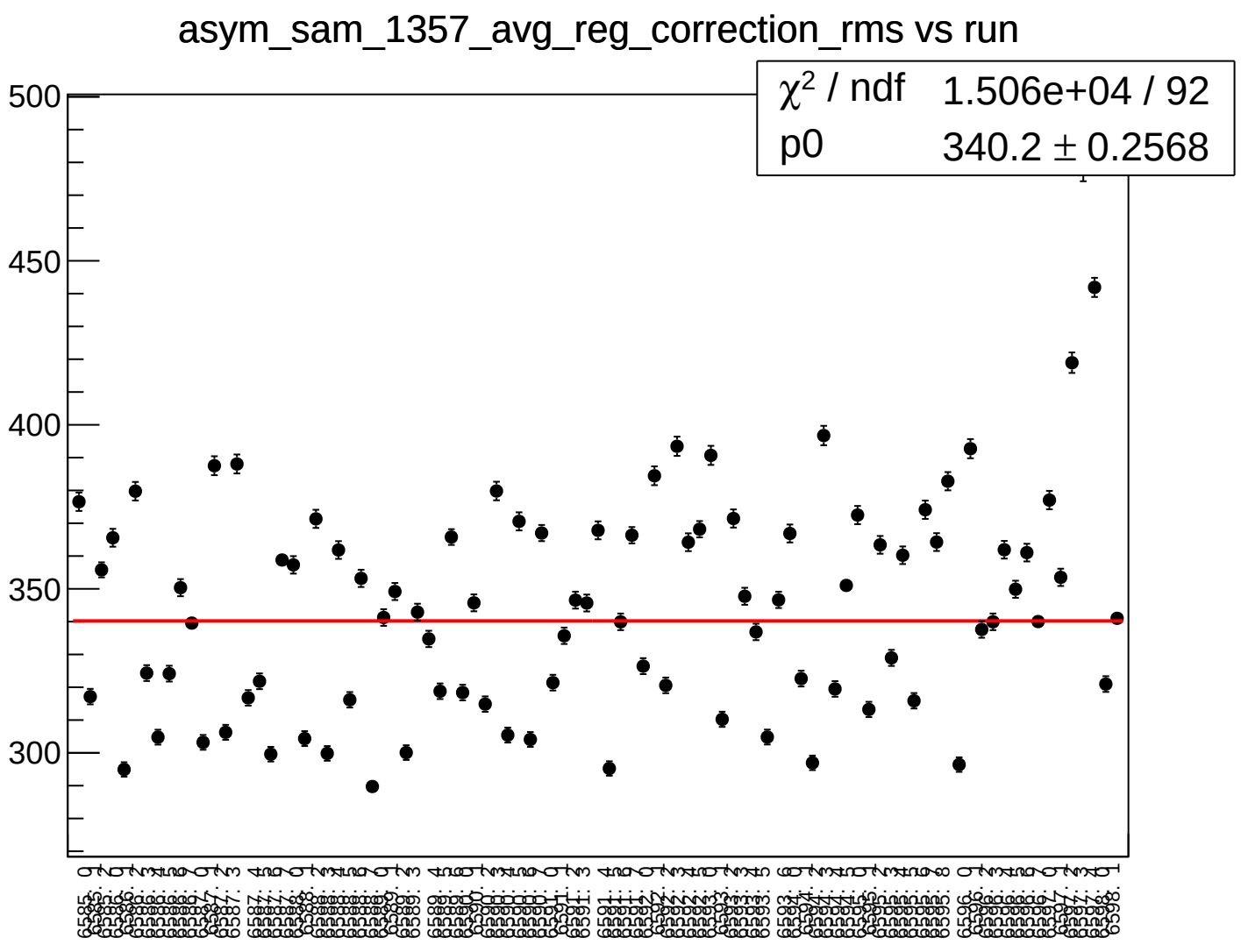

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 113.2 / 92
p0 −17.27 ± 51.11
pull
Entries 93
Mean 411.2
Std Dev 0

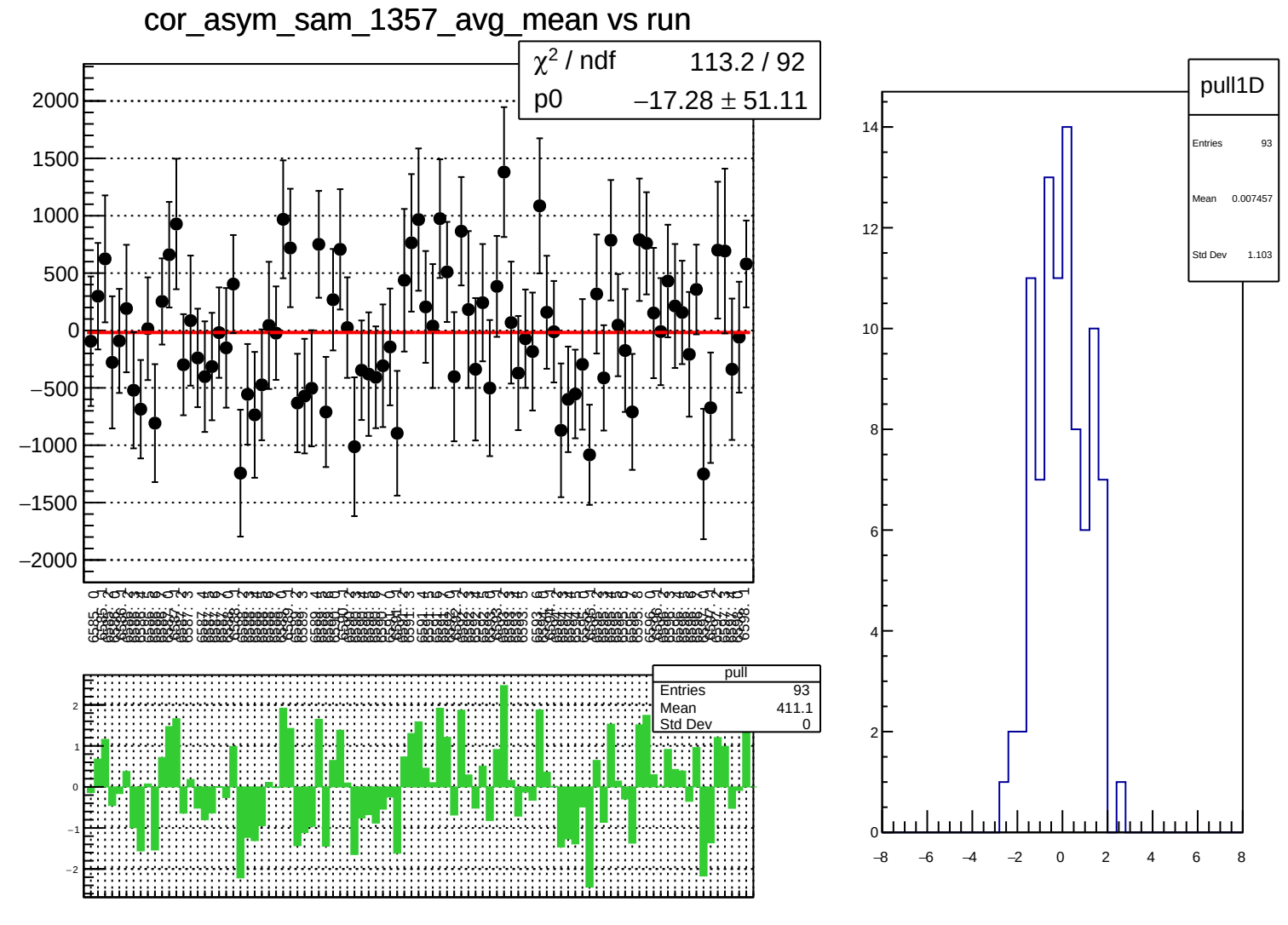

pull1D
Entries 93
Mean 0.007453
Std Dev 1.103

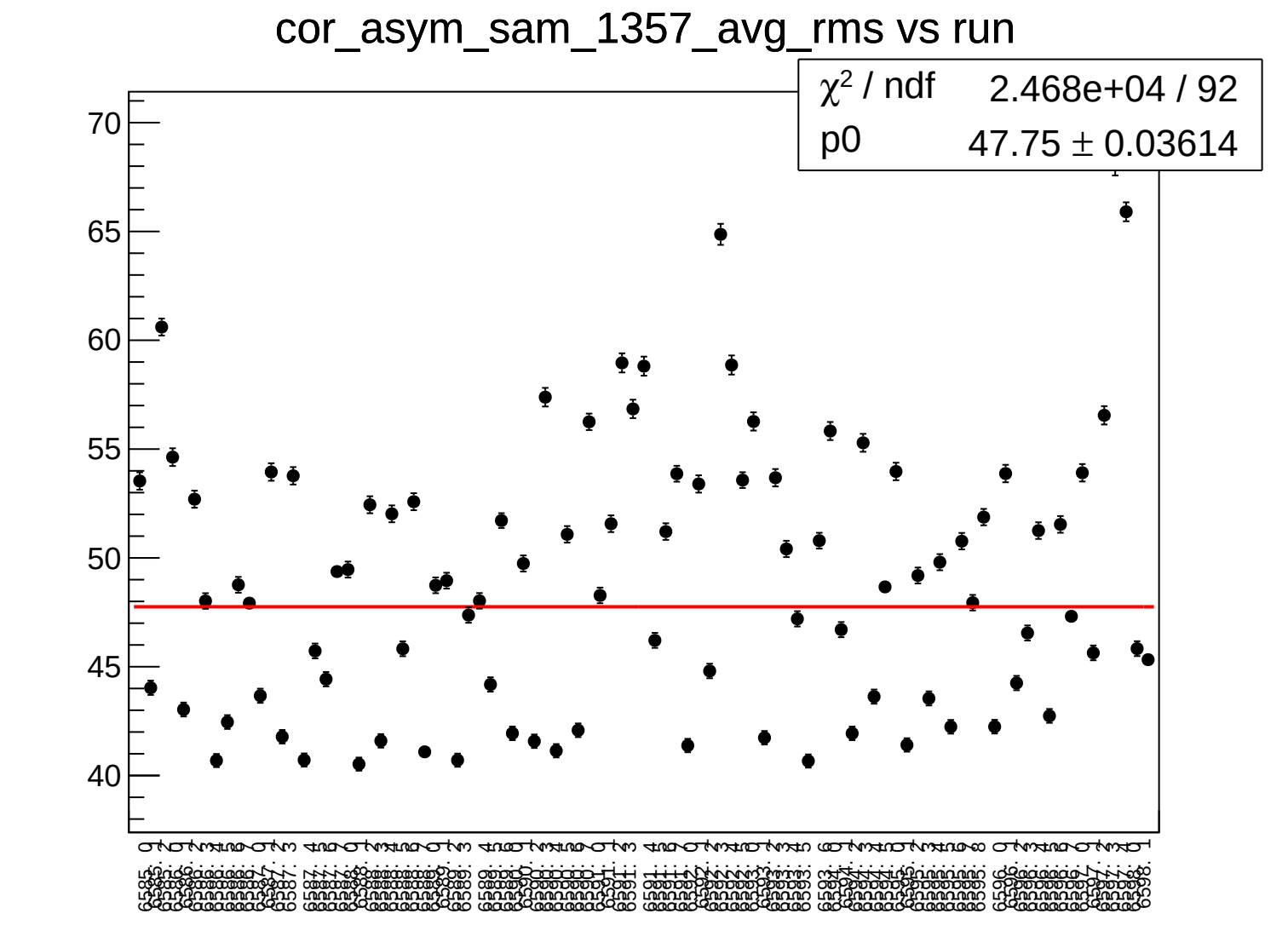

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.468e+04 / 92
p0 47.75 ± 0.03614
70
65
60
55
50
45
40

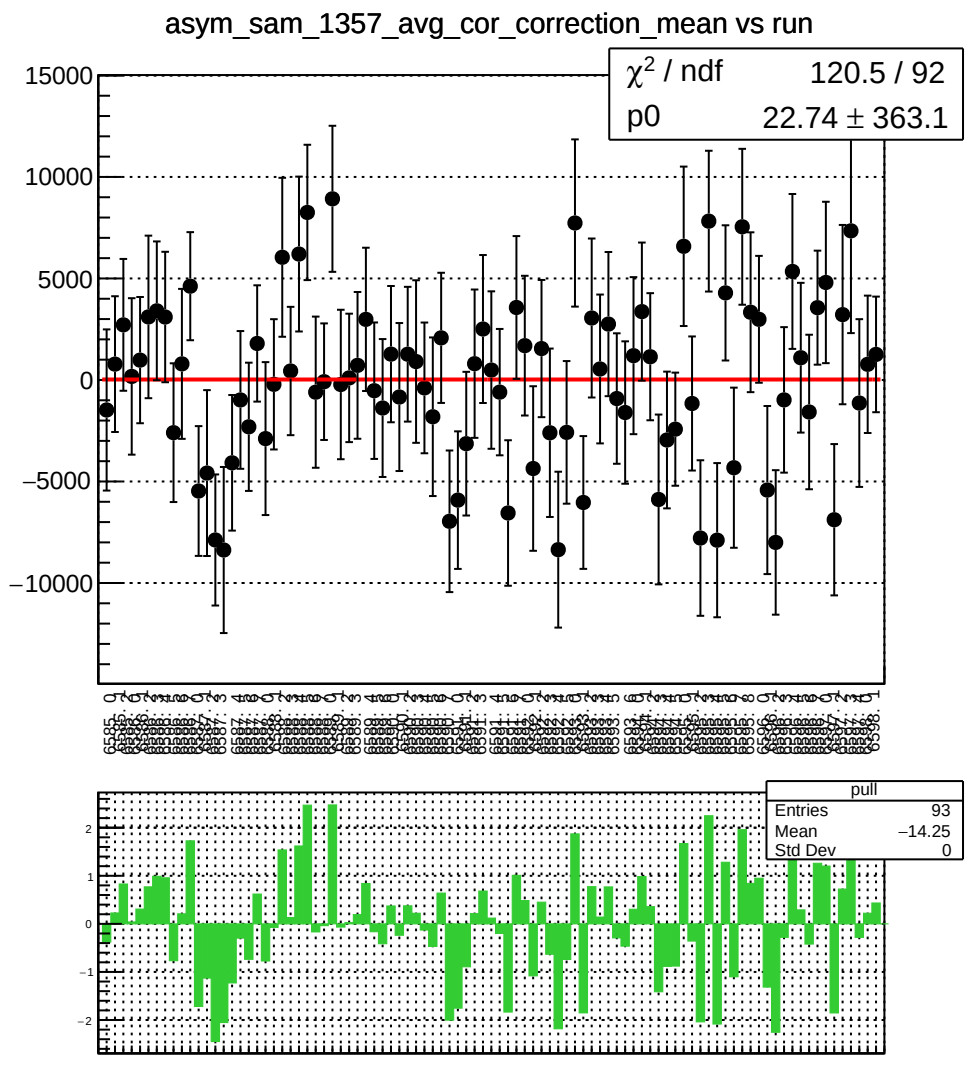

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 120.5 / 92
p0 22.75 ± 363.1
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −14.24
Std Dev 0
2
1
0
−1
−2

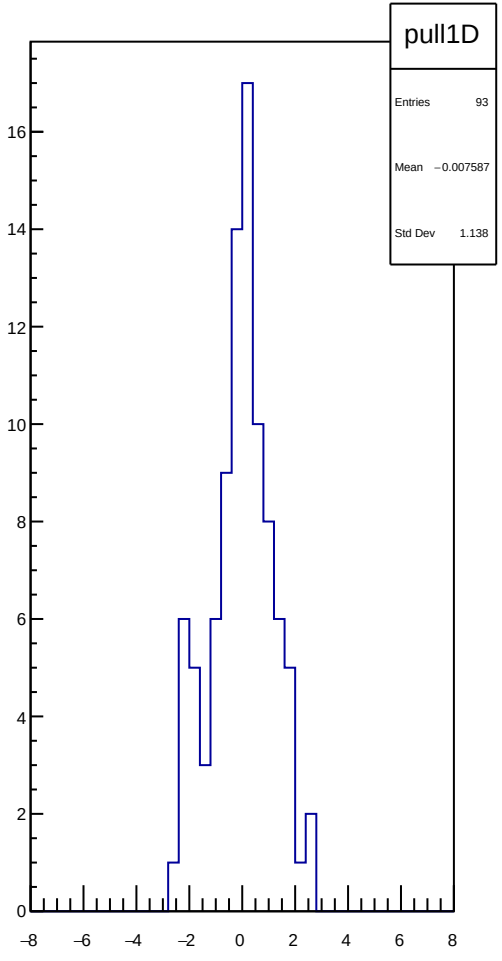

pull1D
Entries 93
Mean −0.007588
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

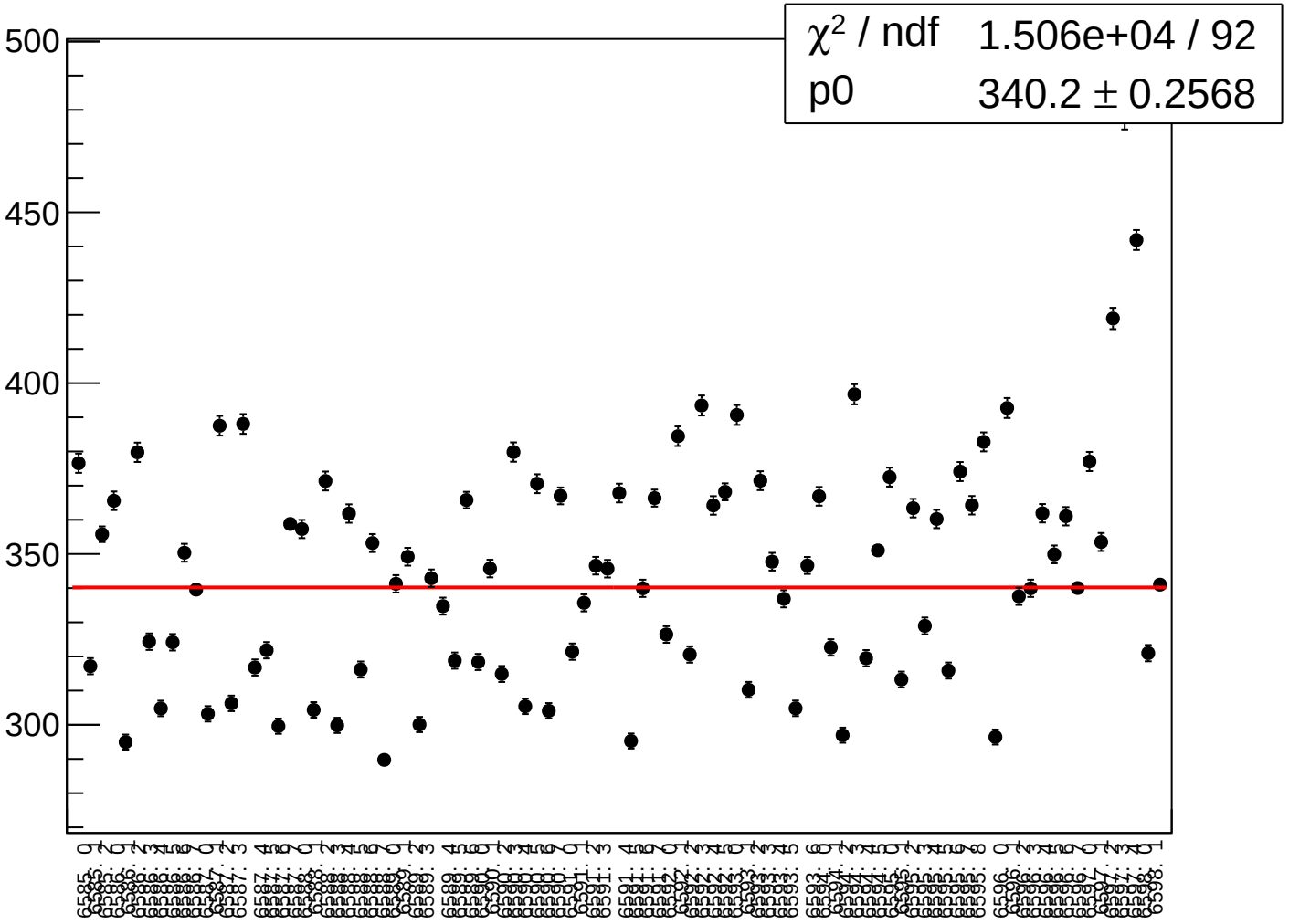

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.506e+04 / 92
p0 340.2 ± 0.2568
500
450
400
350
300

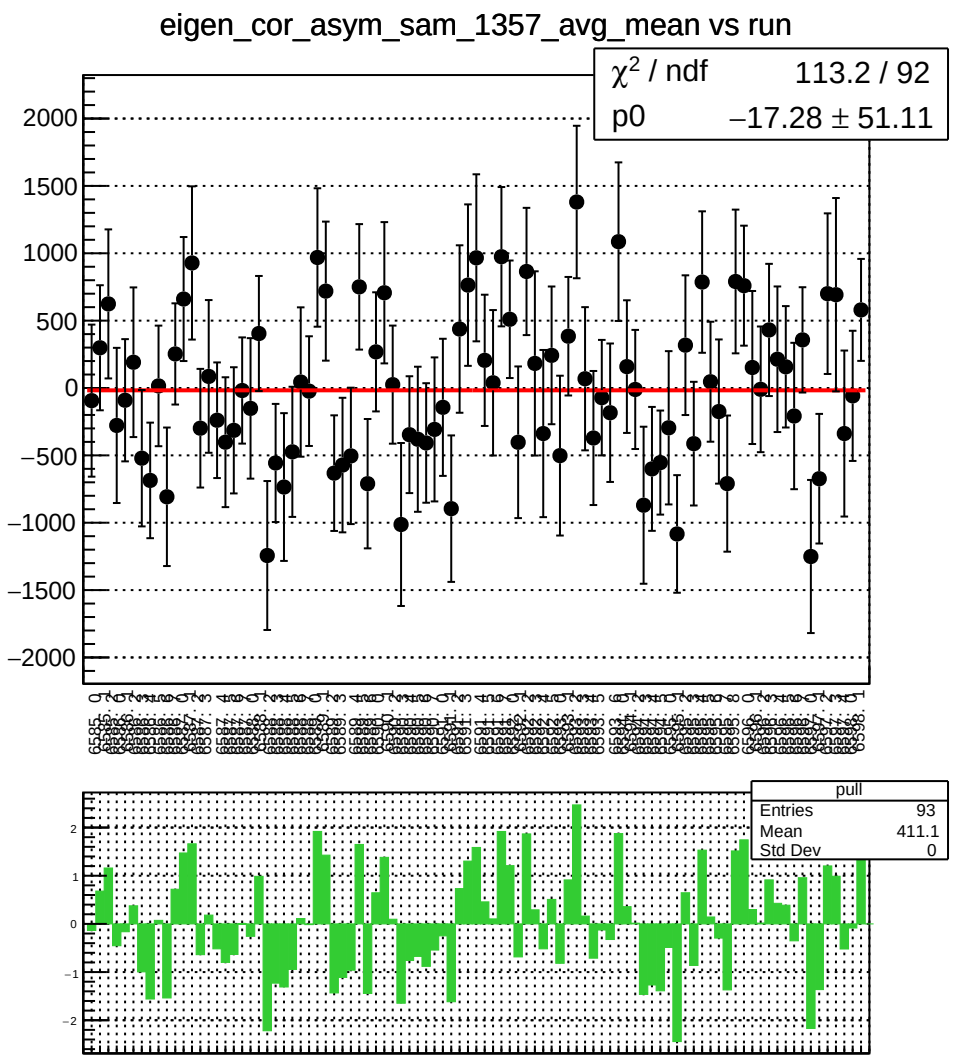

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 113.2 / 92
p0 −17.28 ± 51.11
pull
Entries 93
Mean 411.1
Std Dev 0
pull1D
Entries 93
Mean 0.007457
Std Dev 1.103

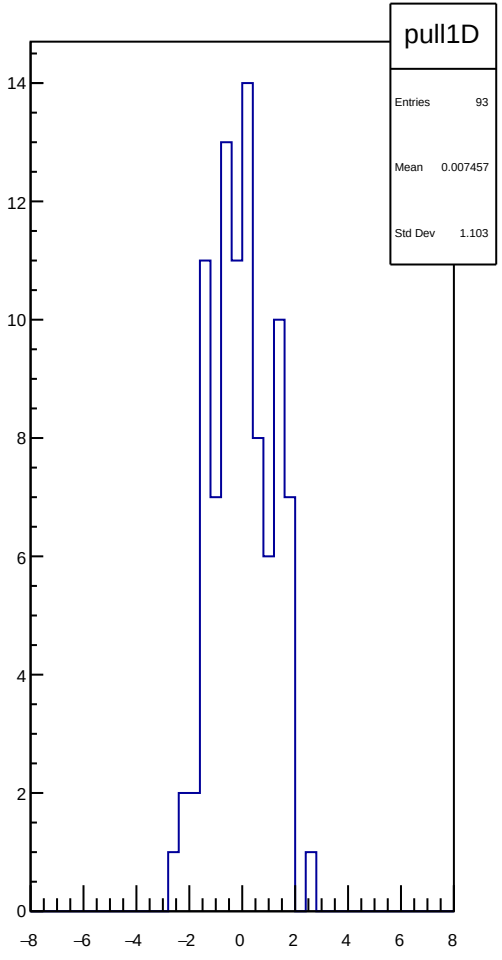

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.468e+04 / 92
p0 47.75 ± 0.03614
70
65
60
55
50
45
40

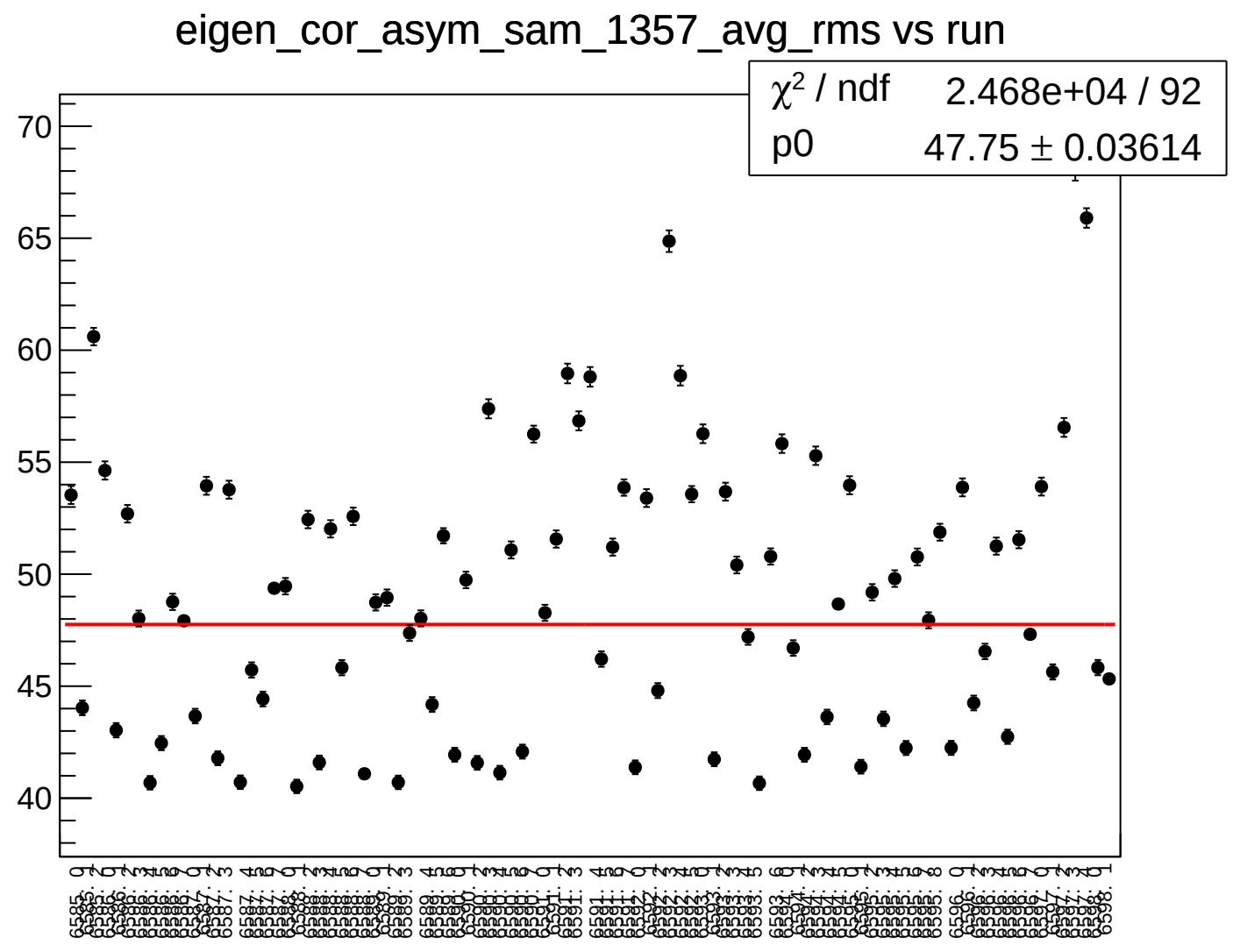

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 120.5 / 92
p0 22.74 ± 363.1
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −14.25
Std Dev 0
2
1
0
−1
−2

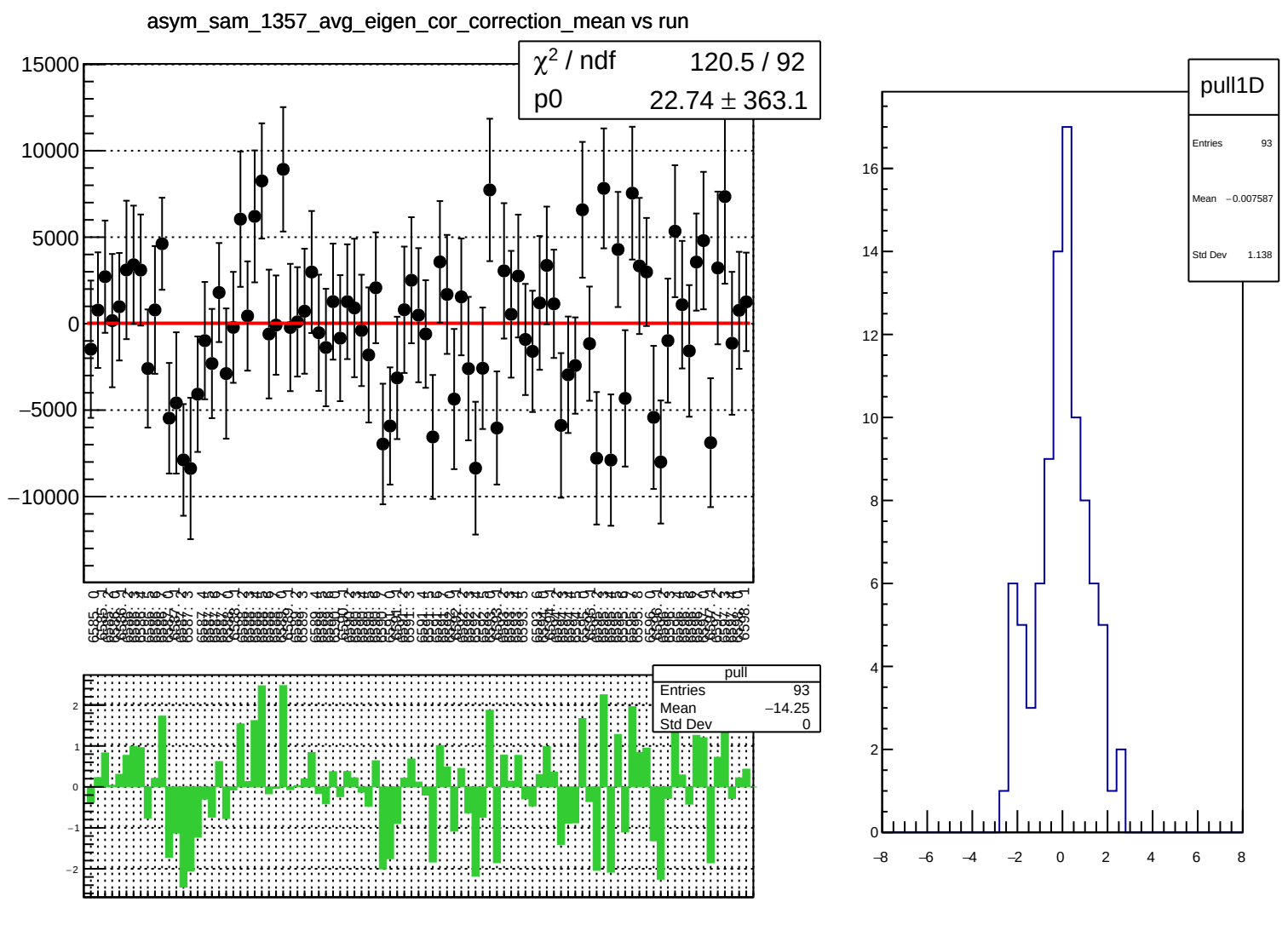

pull1D
Entries 93
Mean −0.007587
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

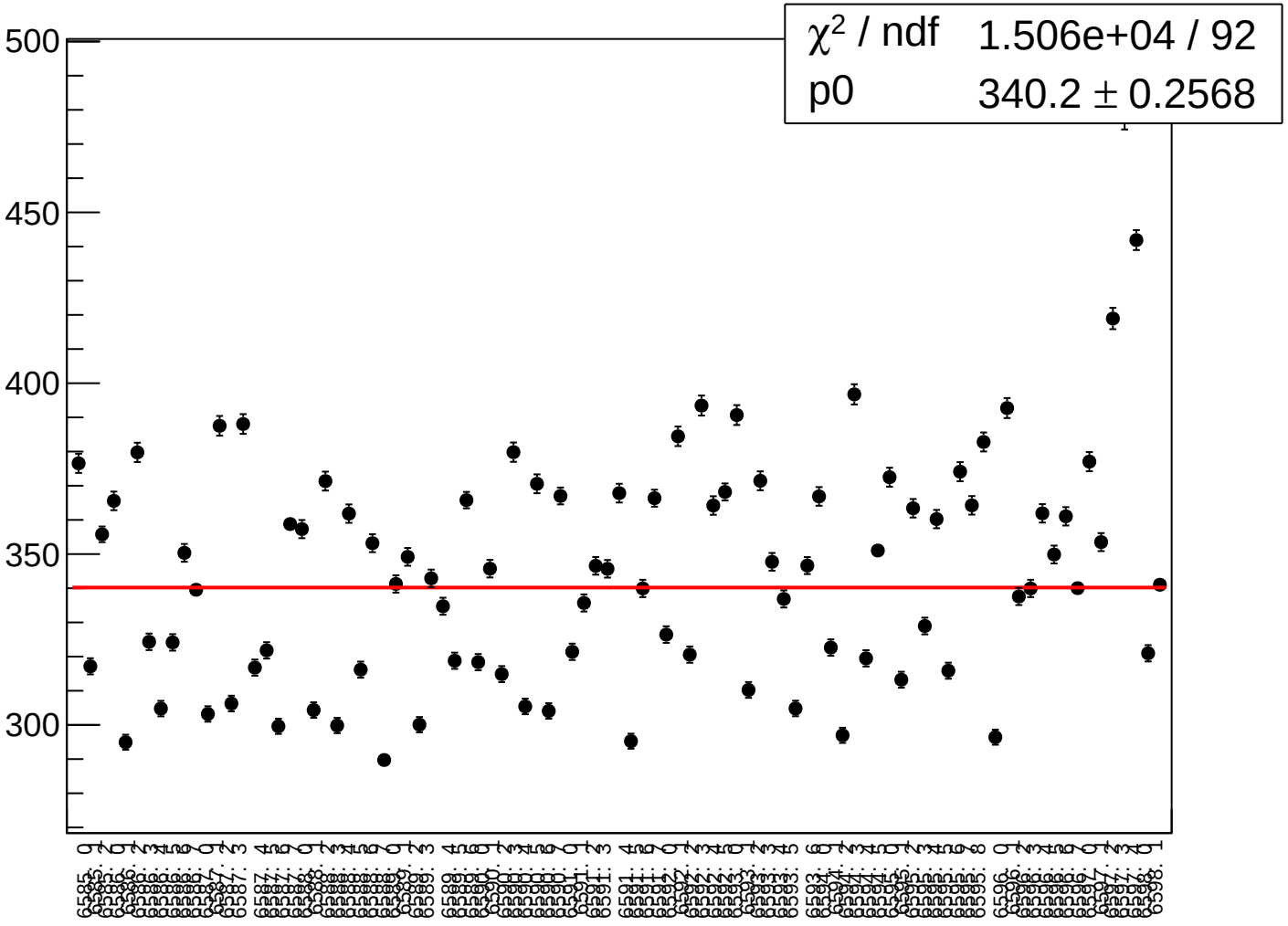

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.506e+04 / 92
p0 340.2 ± 0.2568
500
450
400
350
300

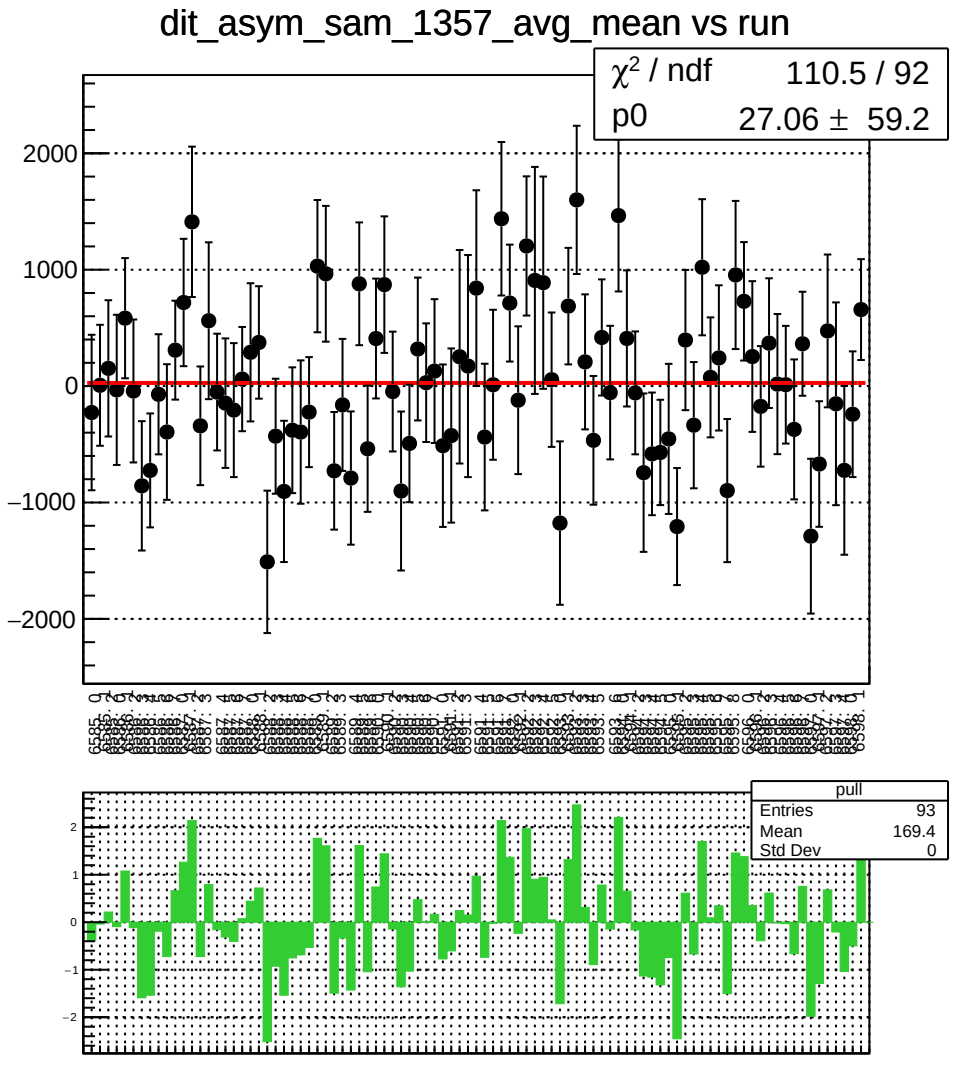

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 113.2 / 92
p0 −17.28 ± 51.11
pull
Entries 93
Mean 411.1
Std Dev 0

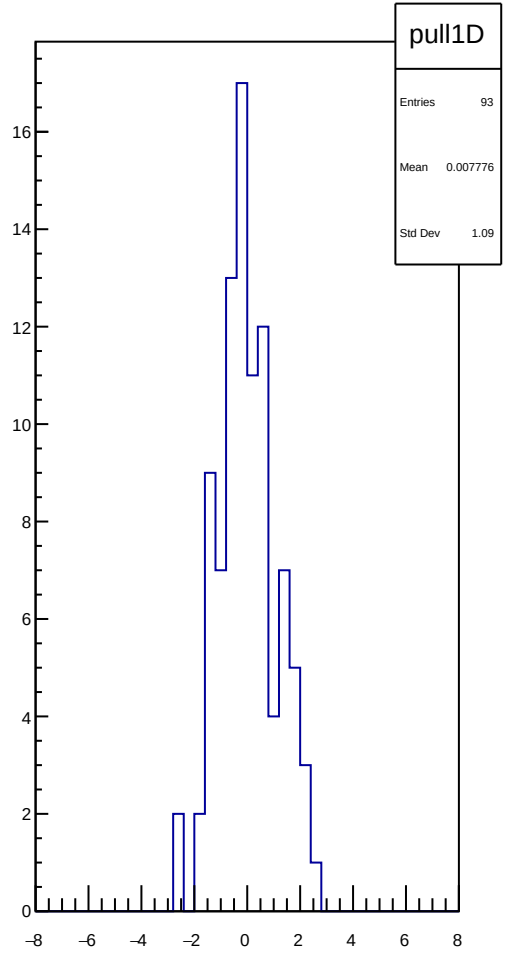

pull1D
Entries 93
Mean 0.007457
Std Dev 1.103

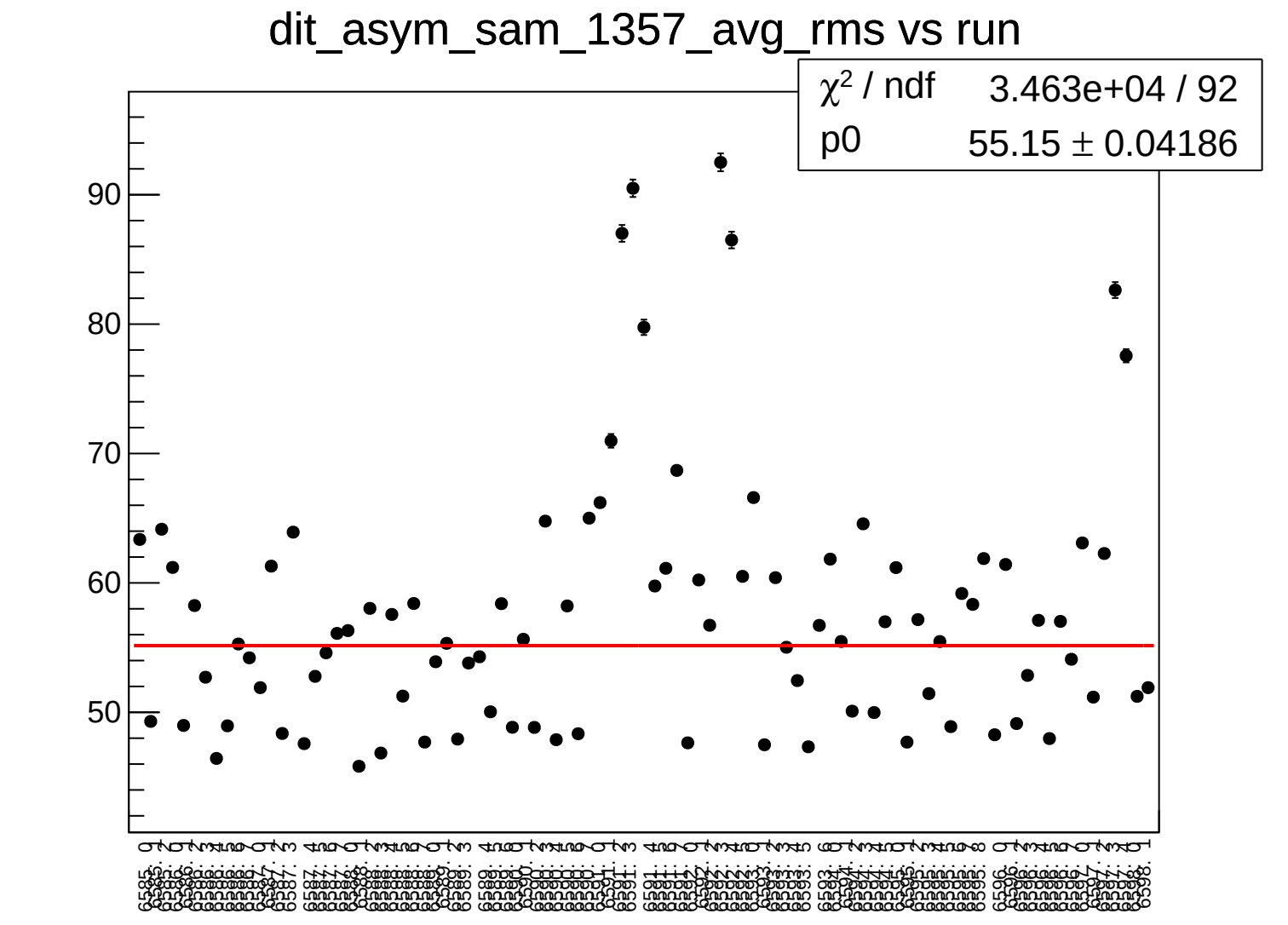

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.468e+04 / 92
p0 47.75 ± 0.03614
70
65
60
55
50
45
40

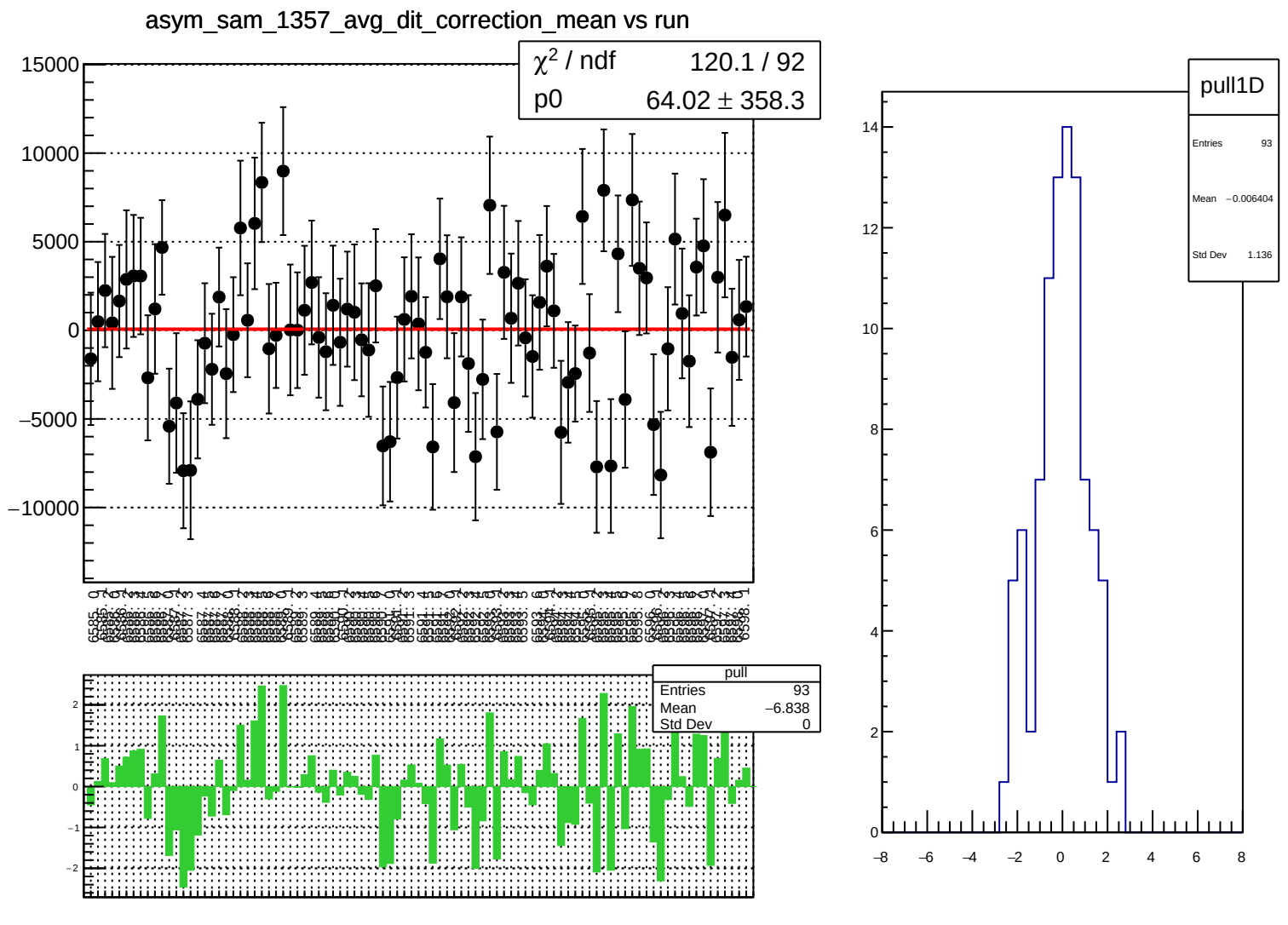

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 120.5 / 92
p0 22.74 ± 363.1
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −14.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.007587
Std Dev 1.138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

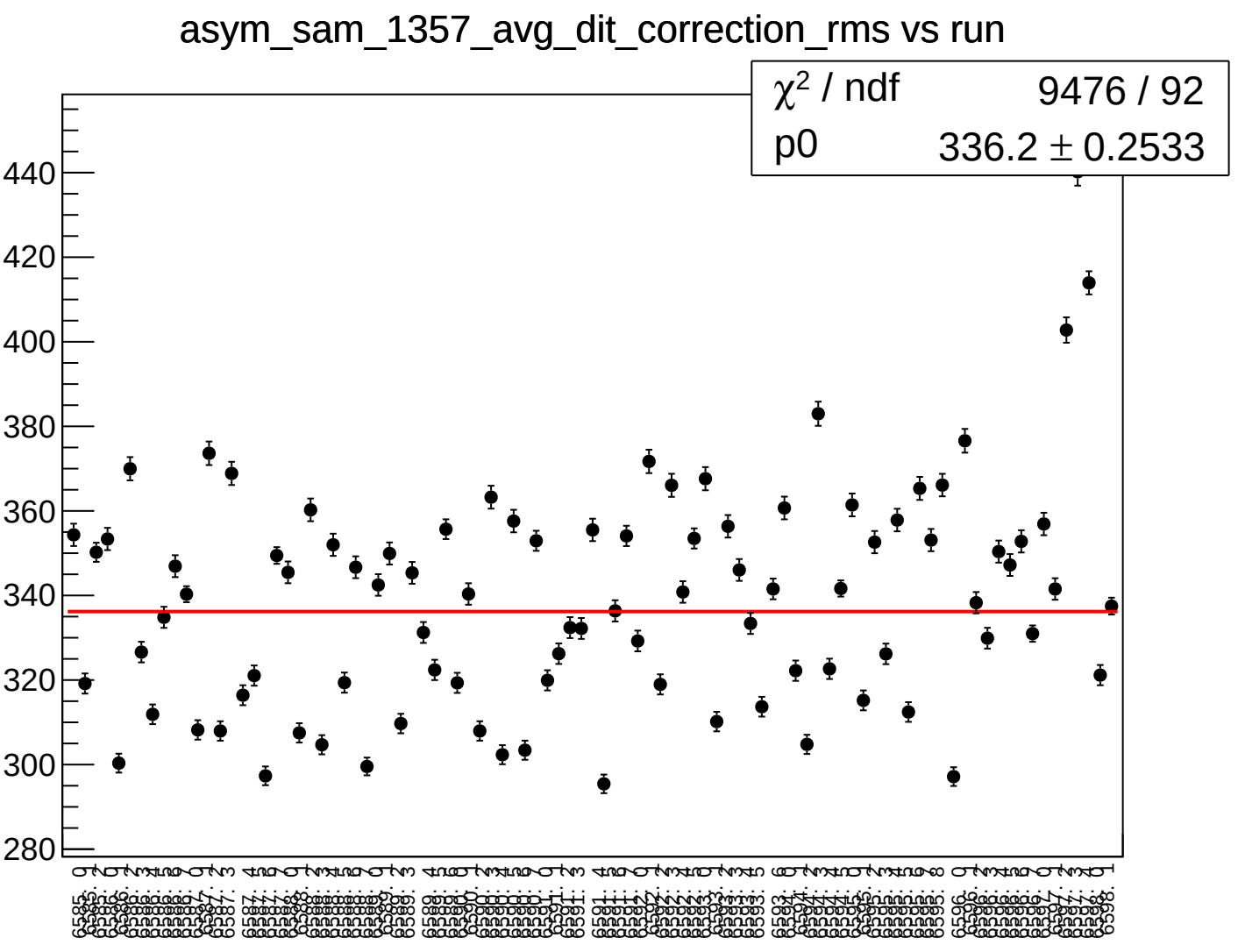

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.506e+04 / 92
p0 340.2 ± 0.2568
500
450
400
350
300

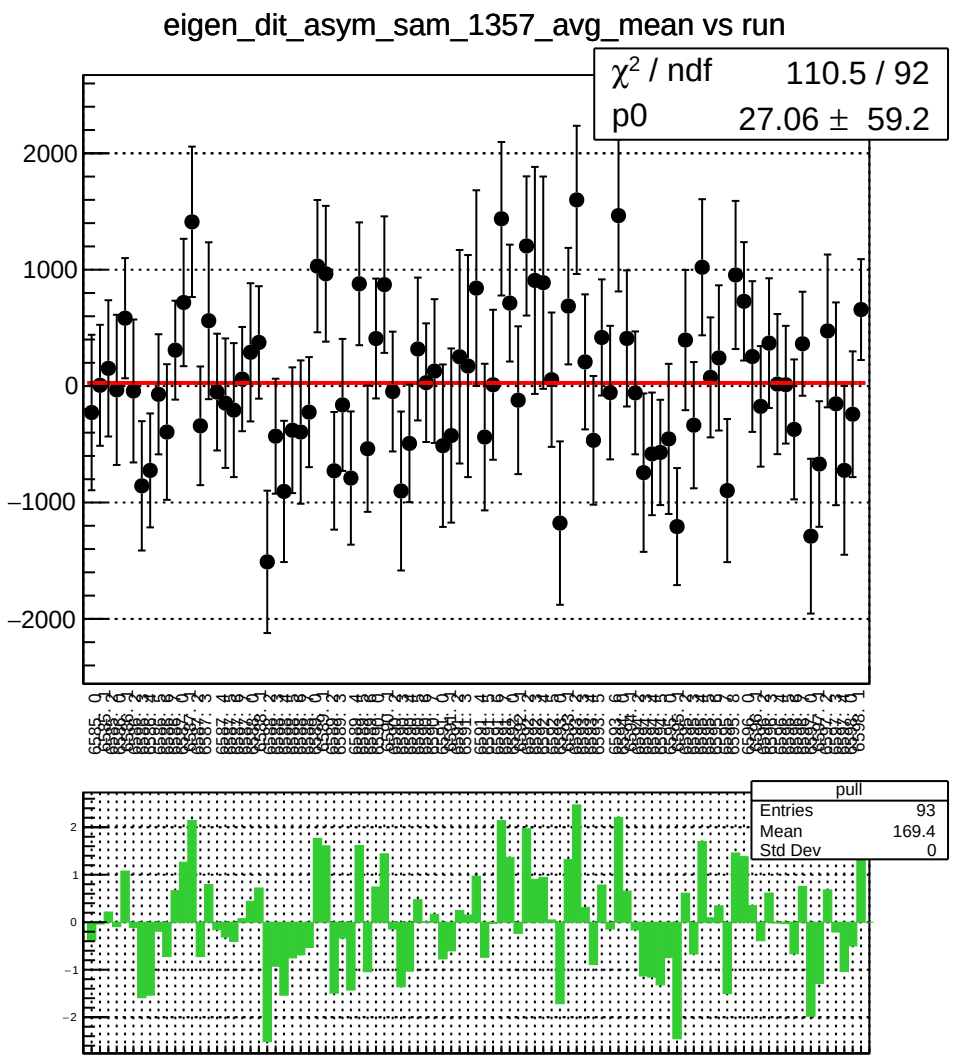

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 110.5 / 92
p0 27.06 ± 59.2
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 169.4
Std Dev 0
2
1
0
−1
−2

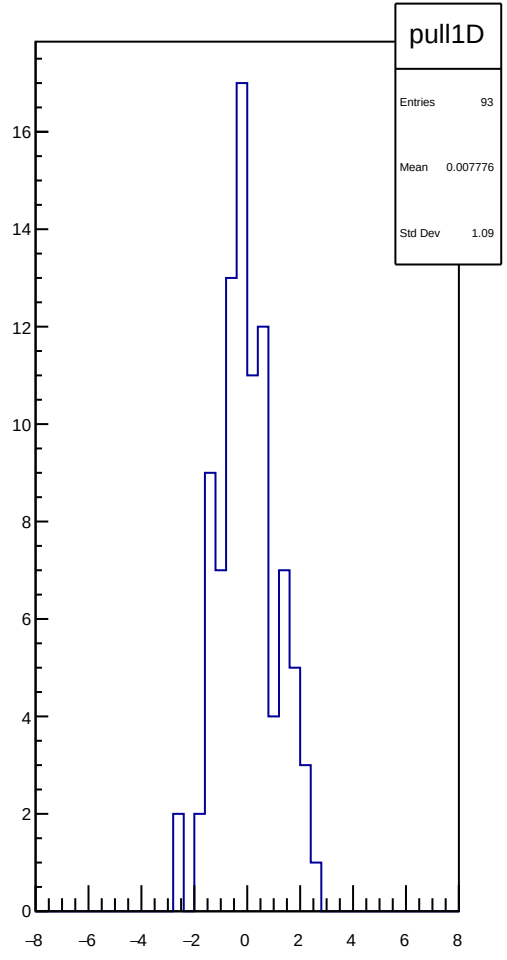

pull1D
Entries 93
Mean 0.007776
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

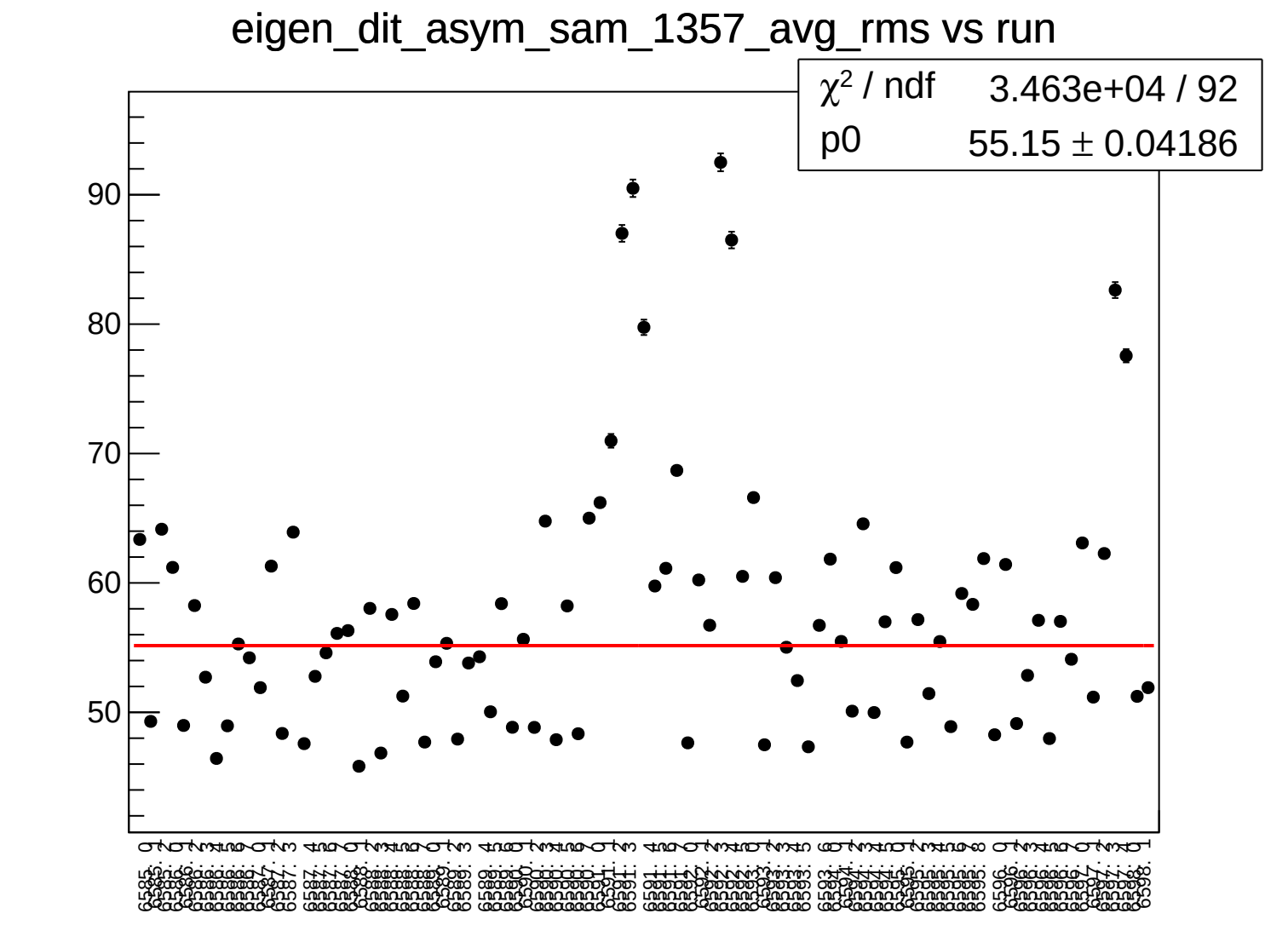

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.463e+04 / 92
p0 55.15 ± 0.04186
90
80
70
60
50

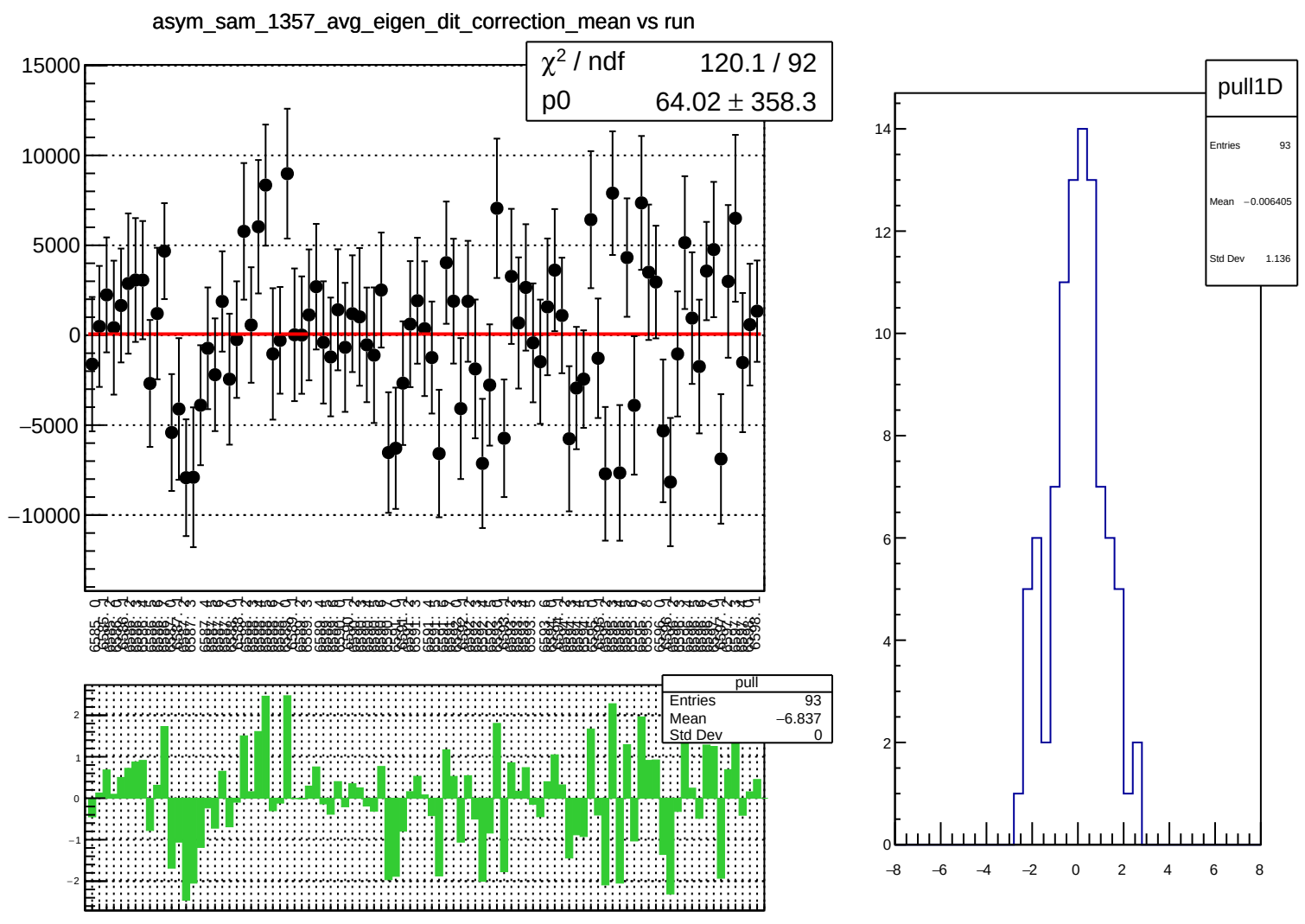

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 120.1 / 92
p0 64.02 ± 358.3
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −6.838
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006404
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

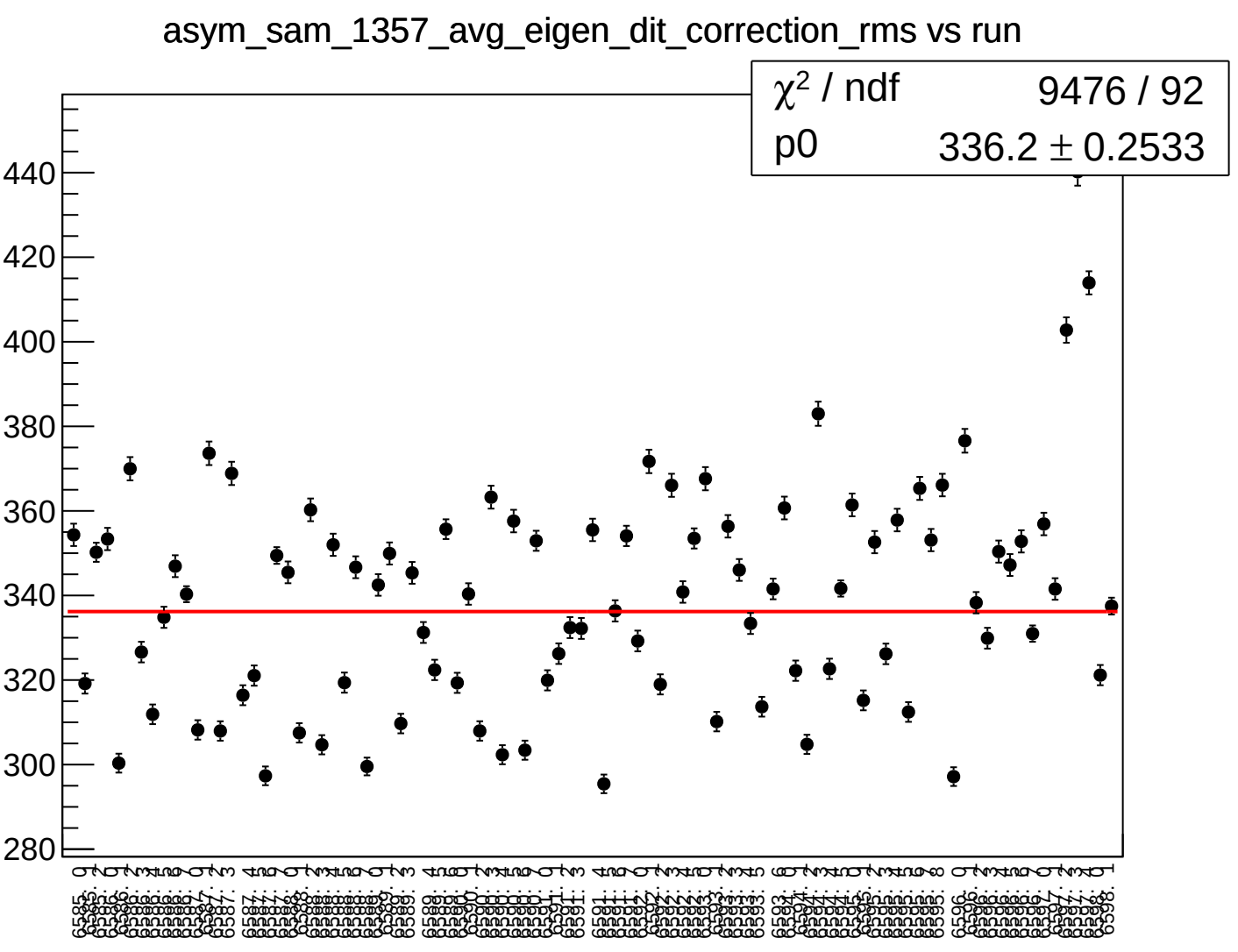

asym_sam_1357_avg_dit_correction_rms vs run
χ^2 / ndf 9476 / 92
p0 336.2 ± 0.2533
440
420
400
380
360
340
320
300
280

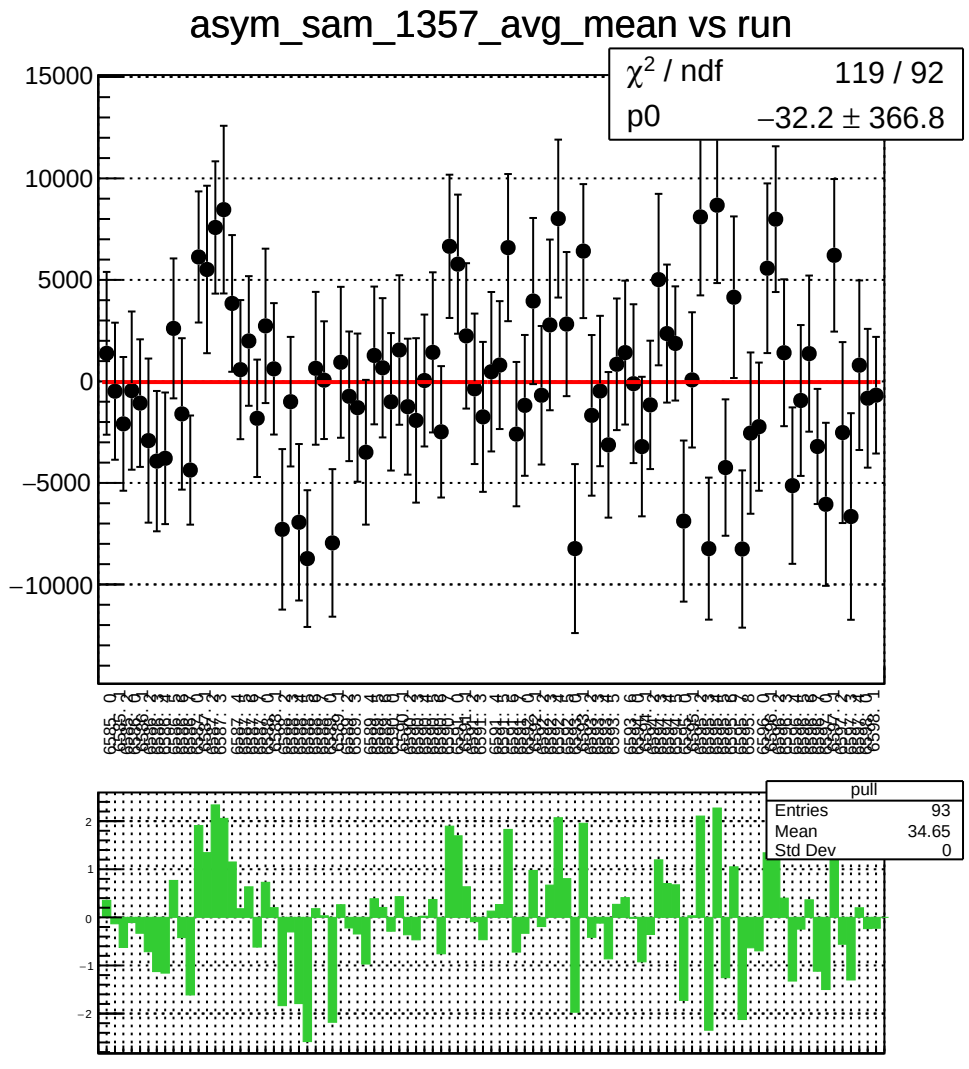

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 110.5 / 92
p0 27.06 ± 59.2
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 169.4
Std Dev 0
2
1
0
−1
−2

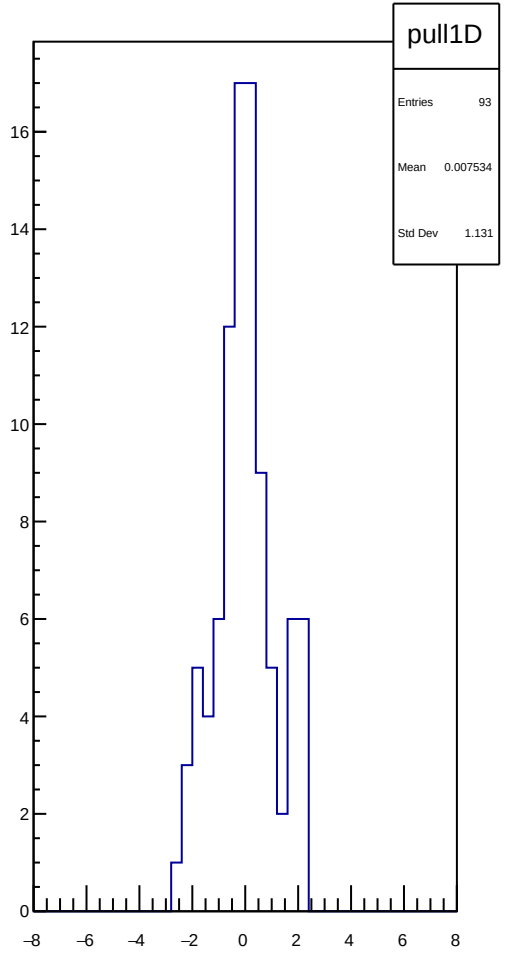

pull1D
Entries 93
Mean 0.007776
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

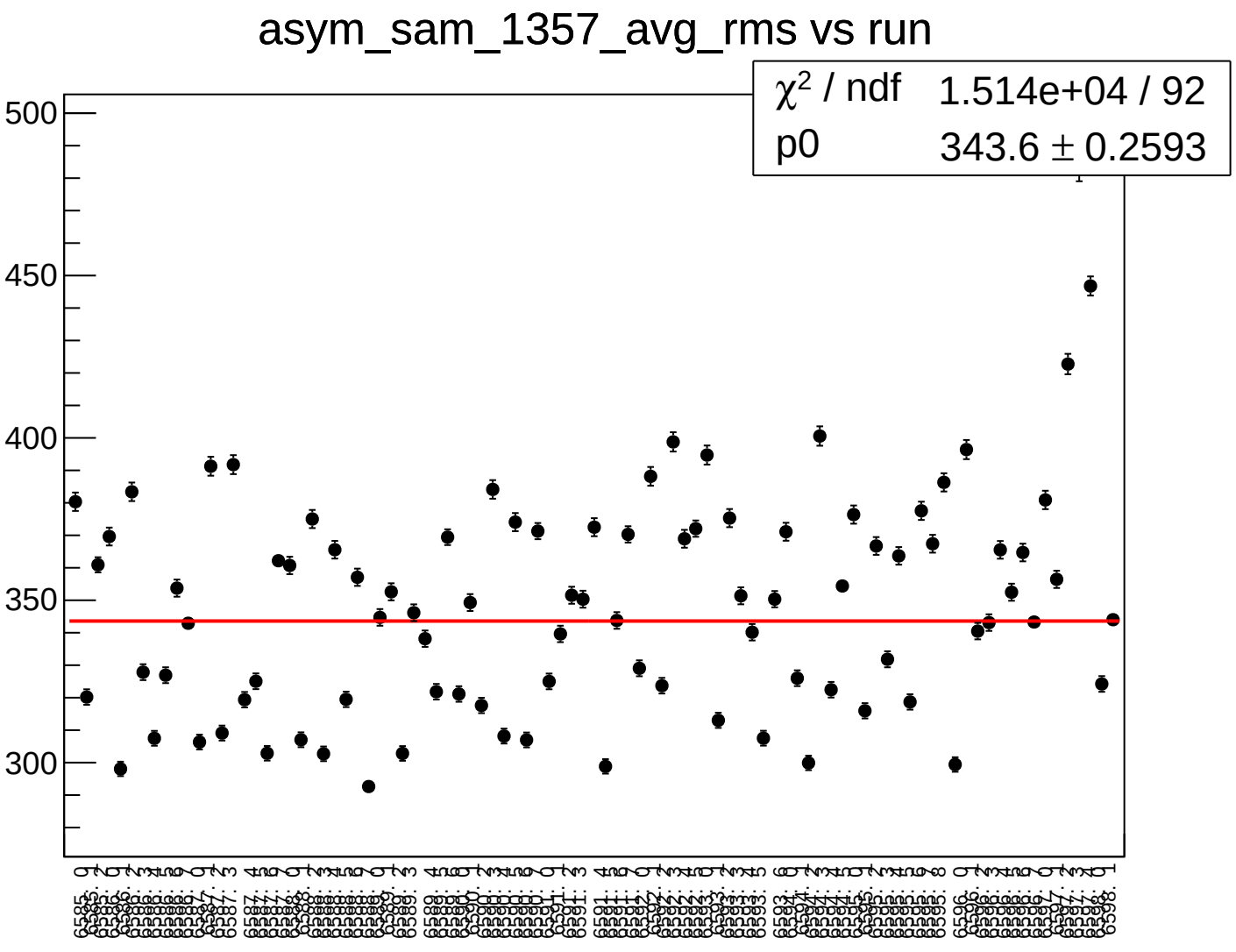

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3.463e+04 / 92
p0 55.15 ± 0.04186
90
80
70
60
50

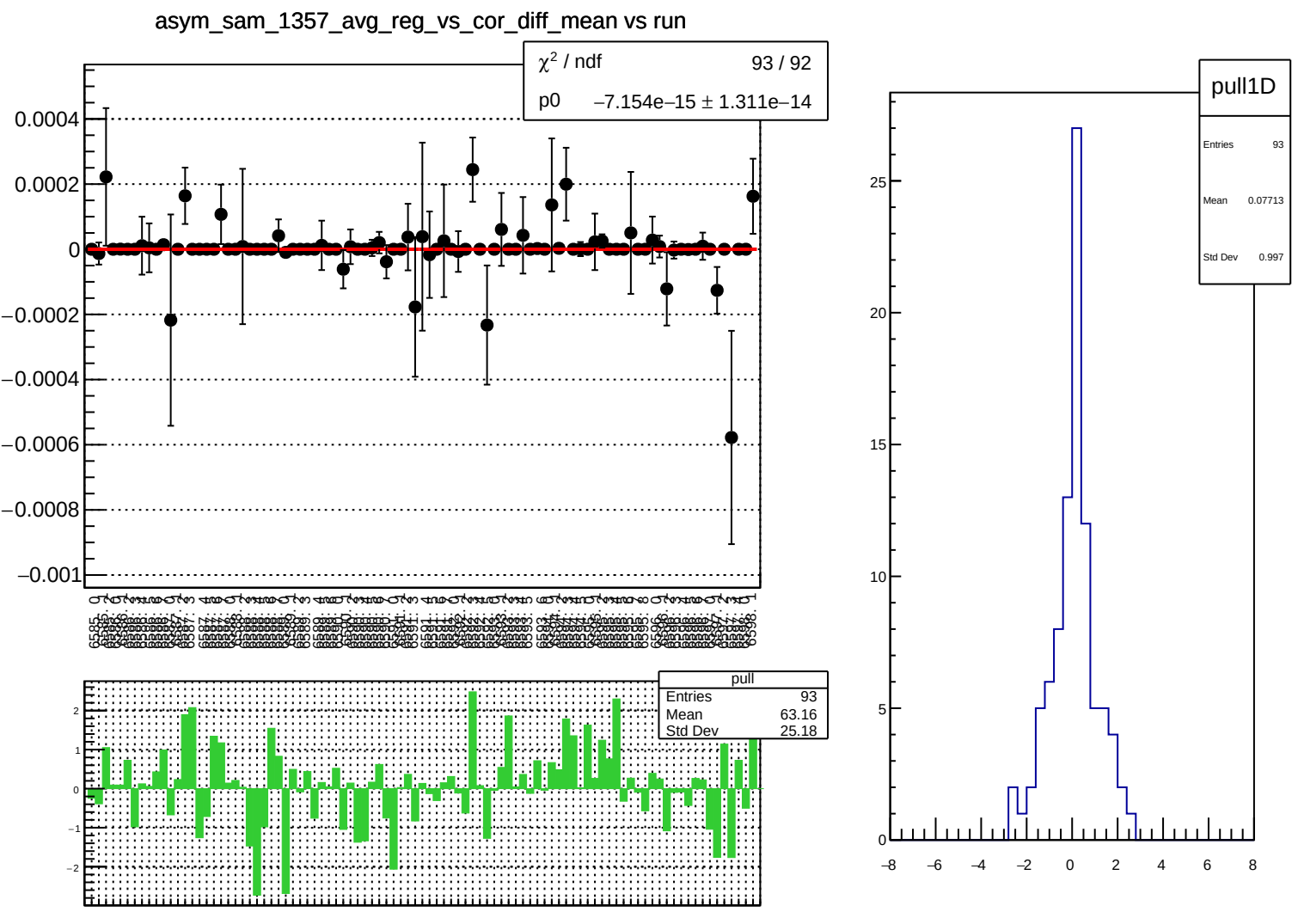

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 120.1 / 92
p0 64.02 ± 358.3
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −6.837
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.006405
Std Dev 1.136
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

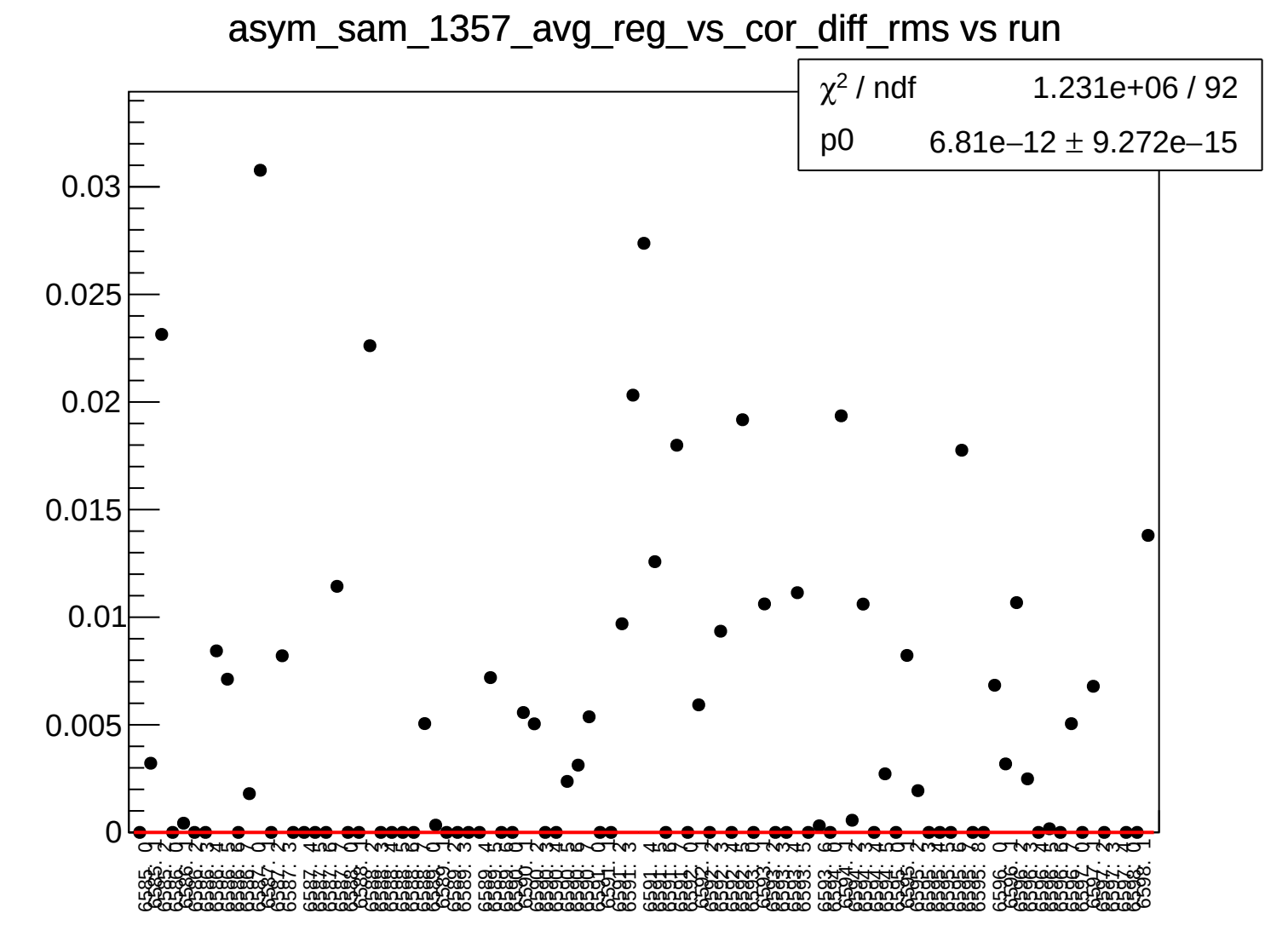

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 9476 / 92
p0 336.2 ± 0.2533
440
420
400
380
360
340
320
300
280

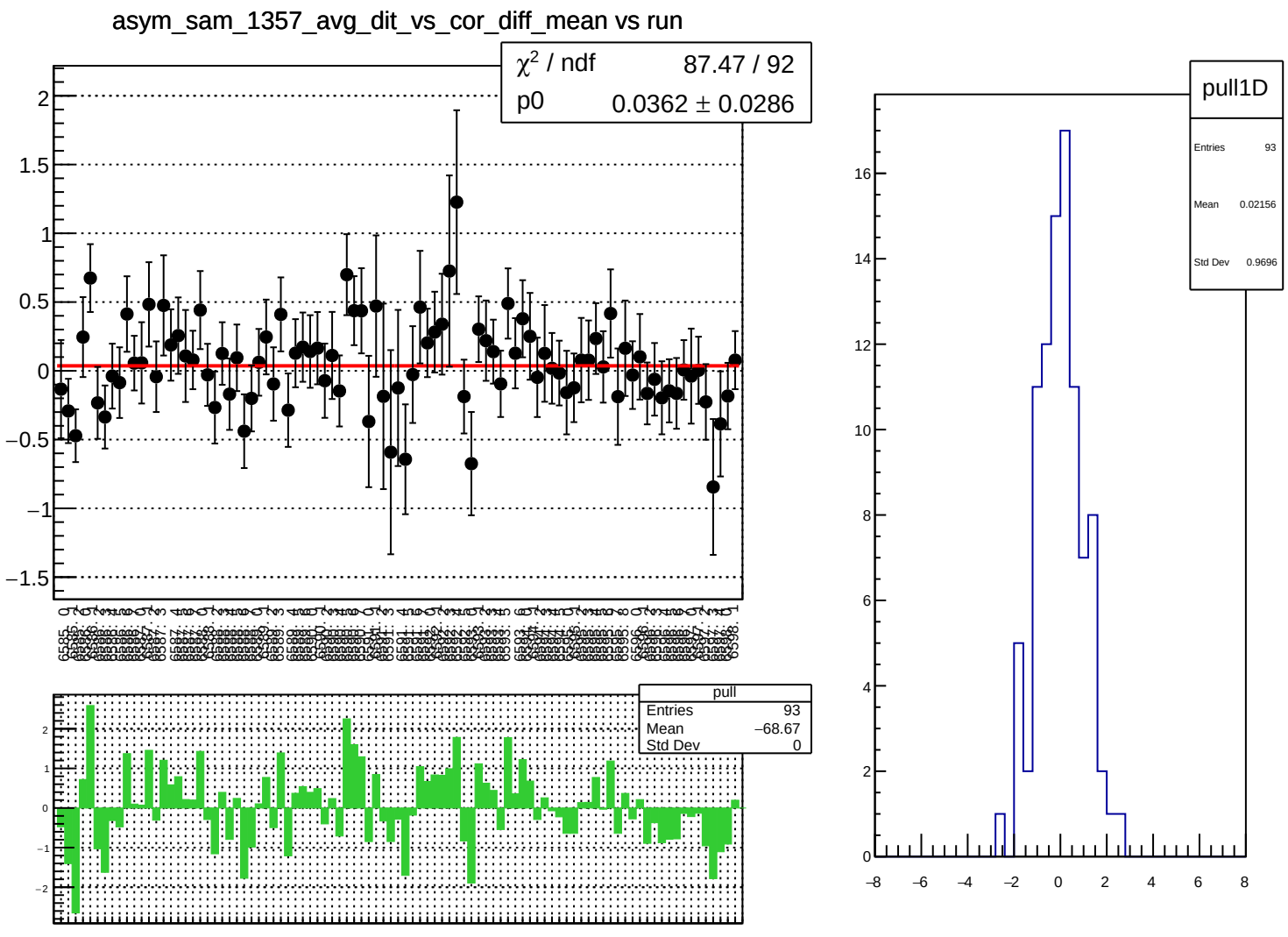

asym_sam_1357_avg_mean vs run
χ² / ndf 119 / 92
p0 −32.2 ± 366.8
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 34.65
Std Dev 0
2
1
0
−1
−2

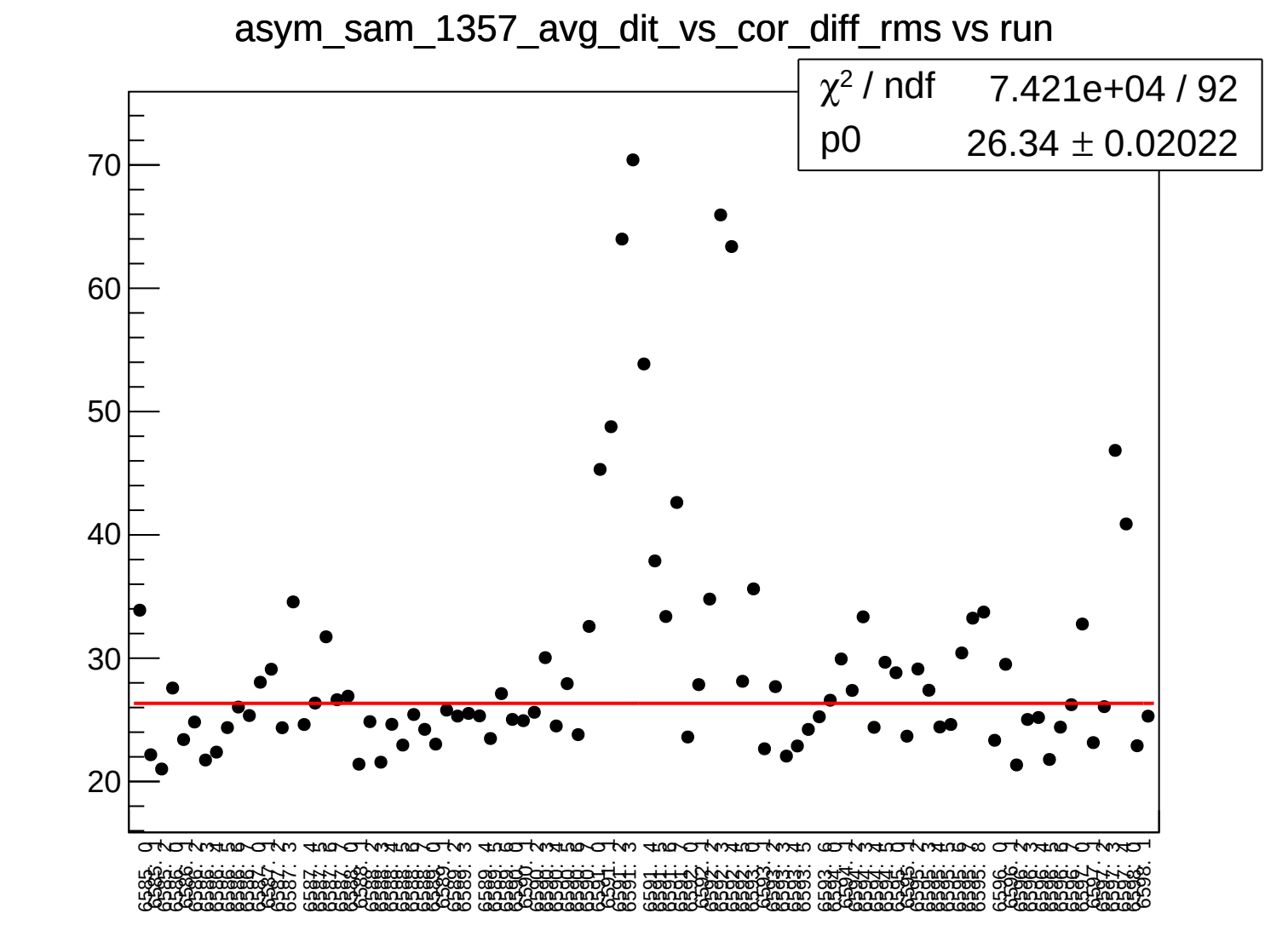

pull1D
Entries 93
Mean 0.007534
Std Dev 1.131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

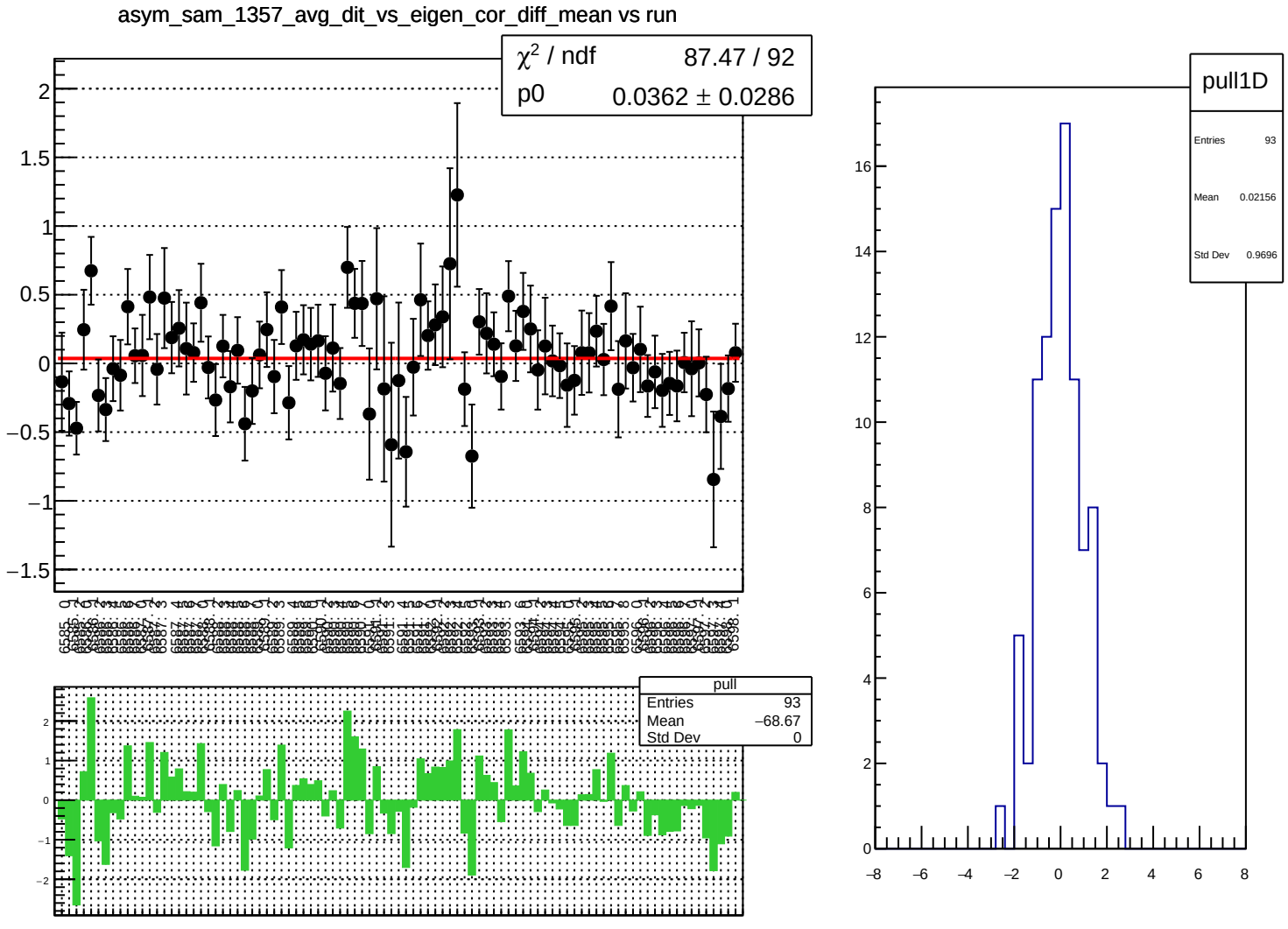

asym_sam_1357_avg_rms vs run
χ² / ndf 1.514e+04 / 92
p0 343.6 ± 0.2593
500
450
400
350
300

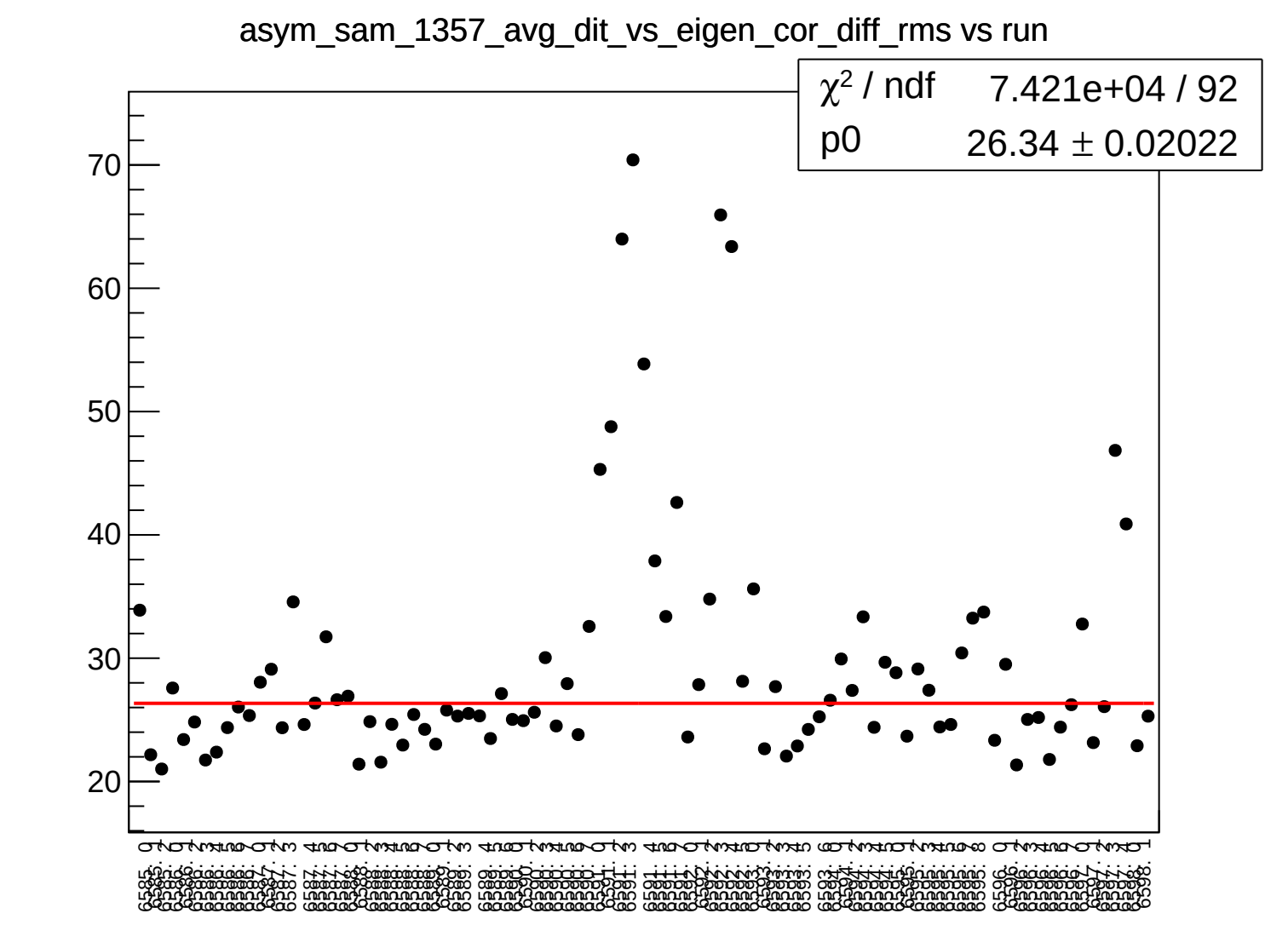

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93 / 92
p0 −7.154e−15 ± 1.311e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 93
Mean 63.16
Std Dev 25.18
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.07713
Std Dev 0.997
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

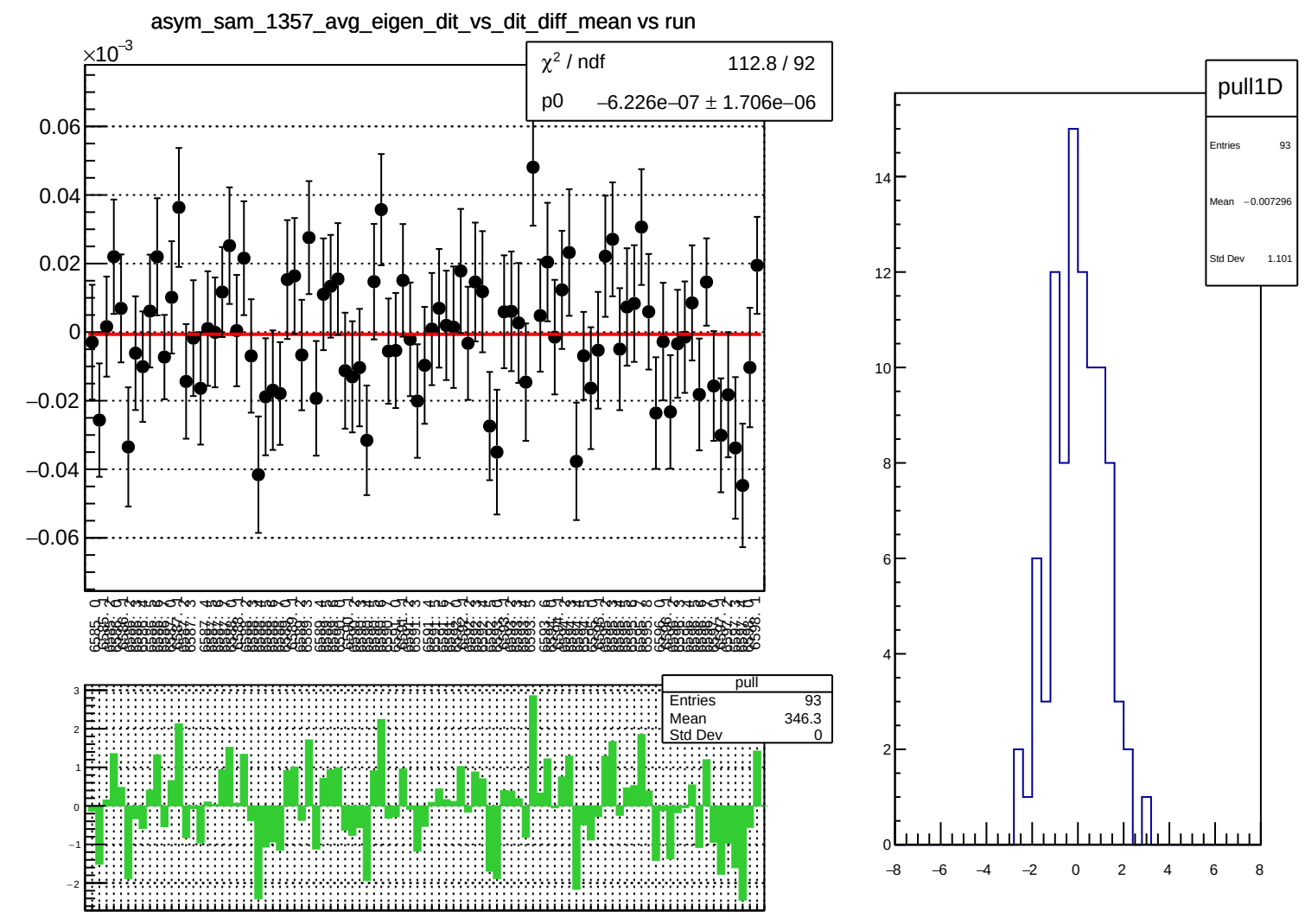

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.231e+06 / 92
p0 6.81e−12 ± 9.272e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

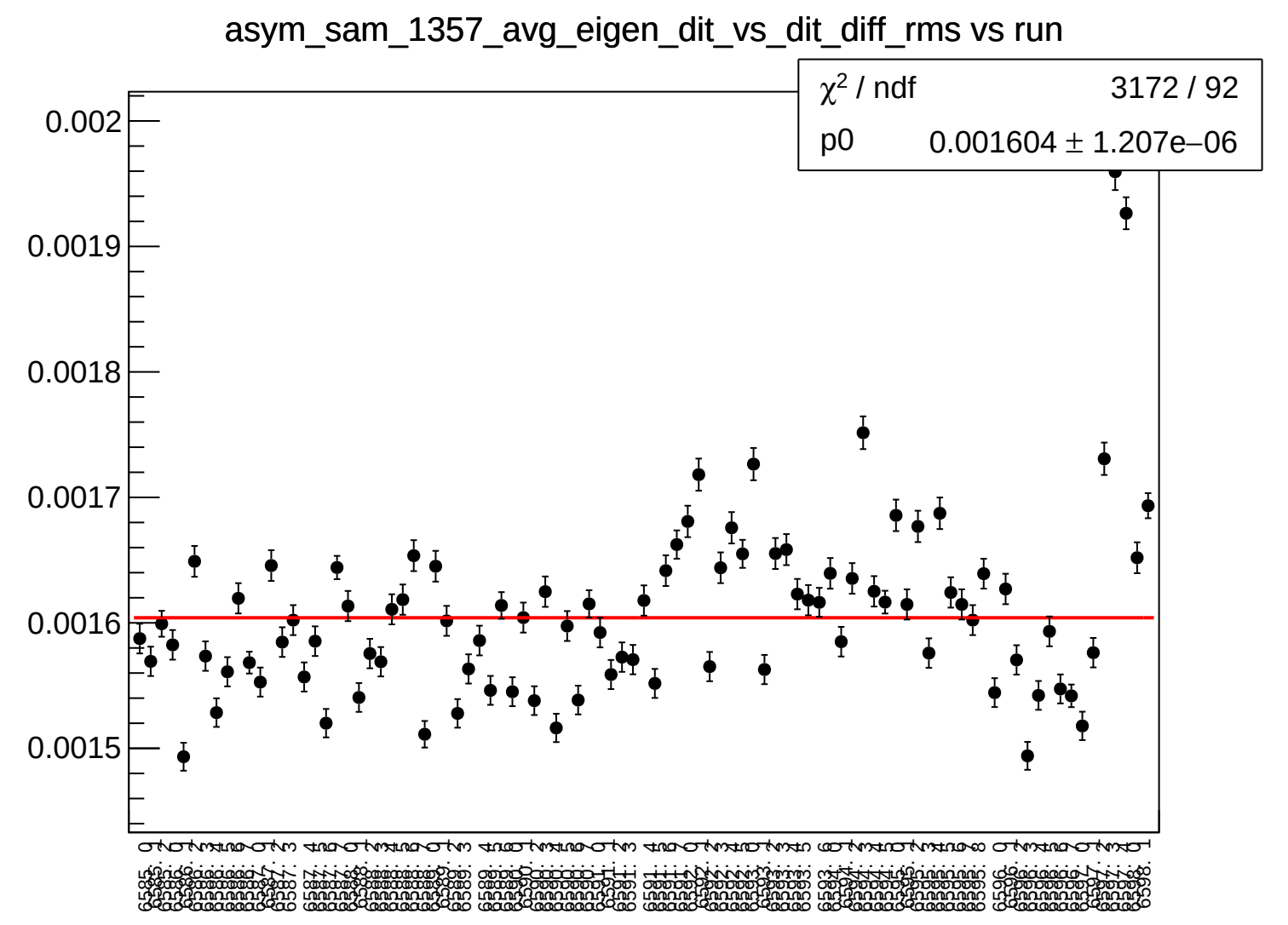

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.47 / 92
p0 0.0362 ± 0.0286
pull
Entries 93
Mean −68.67
Std Dev 0
pull1D
Entries 93
Mean 0.02156
Std Dev 0.9696

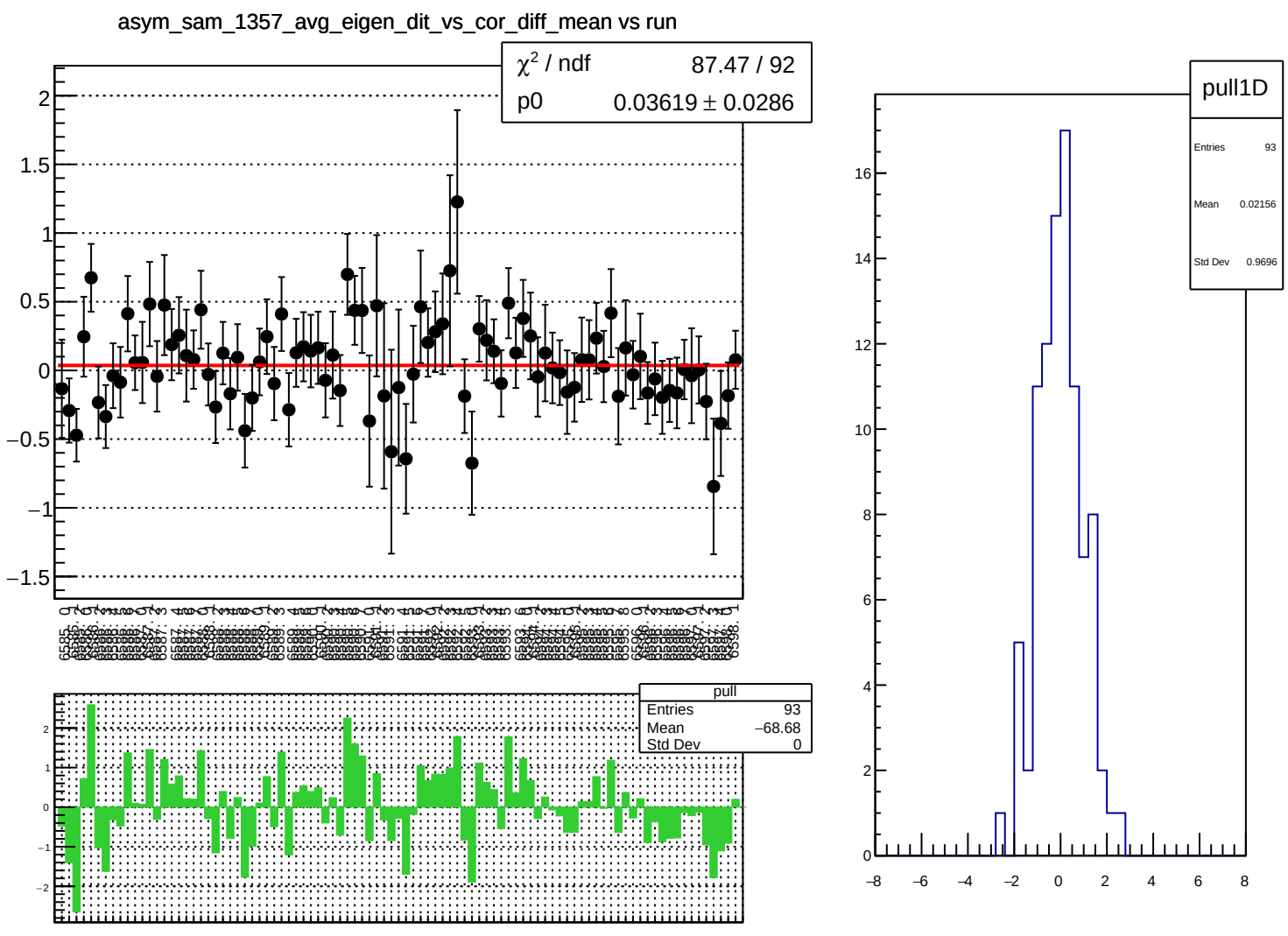

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.421e+04 / 92
p0 26.34 ± 0.02022
70
60
50
40
30
20

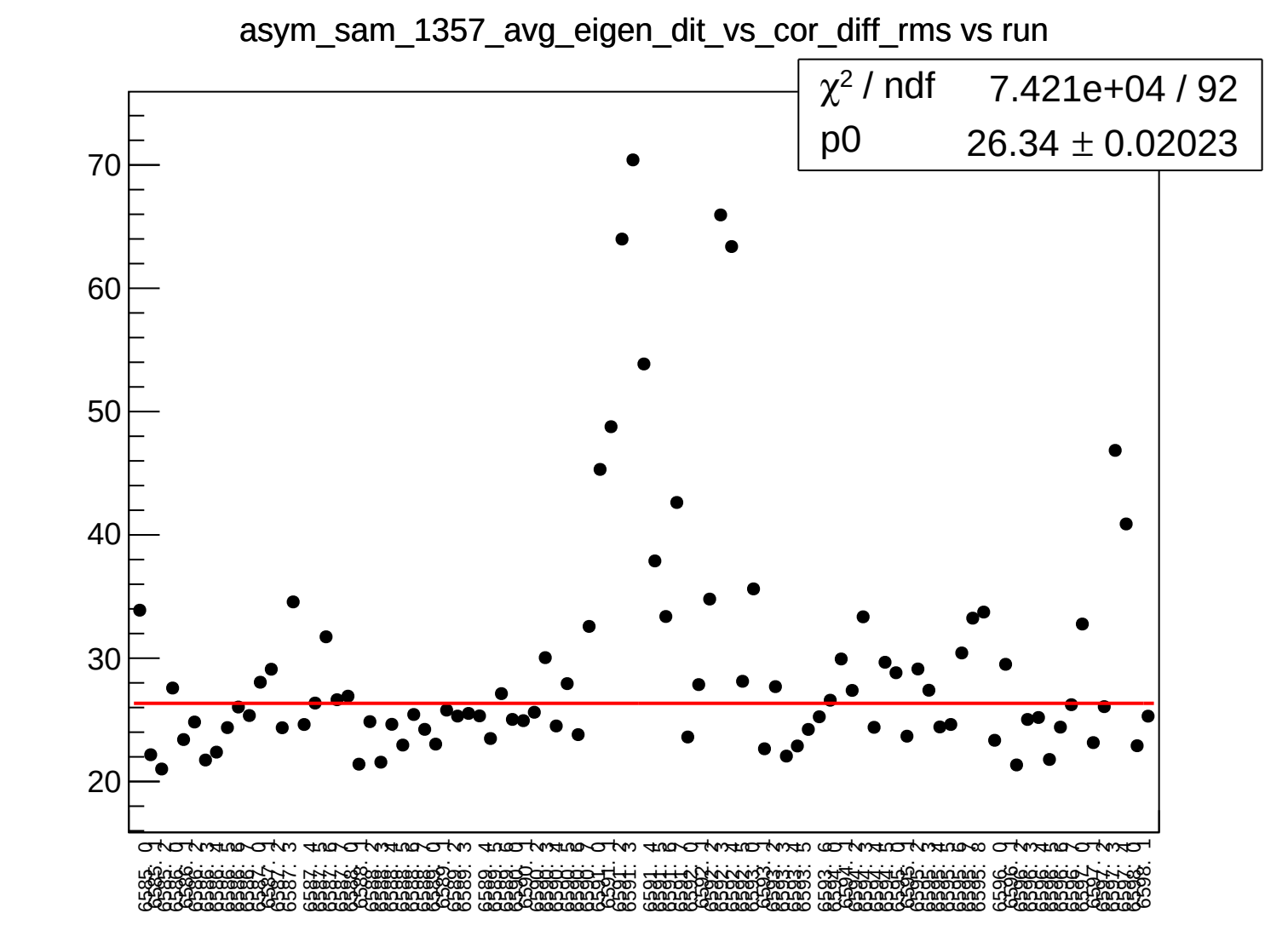

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.47 / 92
p0 0.0362 ± 0.0286
pull
Entries 93
Mean −68.67
Std Dev 0
pull1D
Entries 93
Mean 0.02156
Std Dev 0.9696

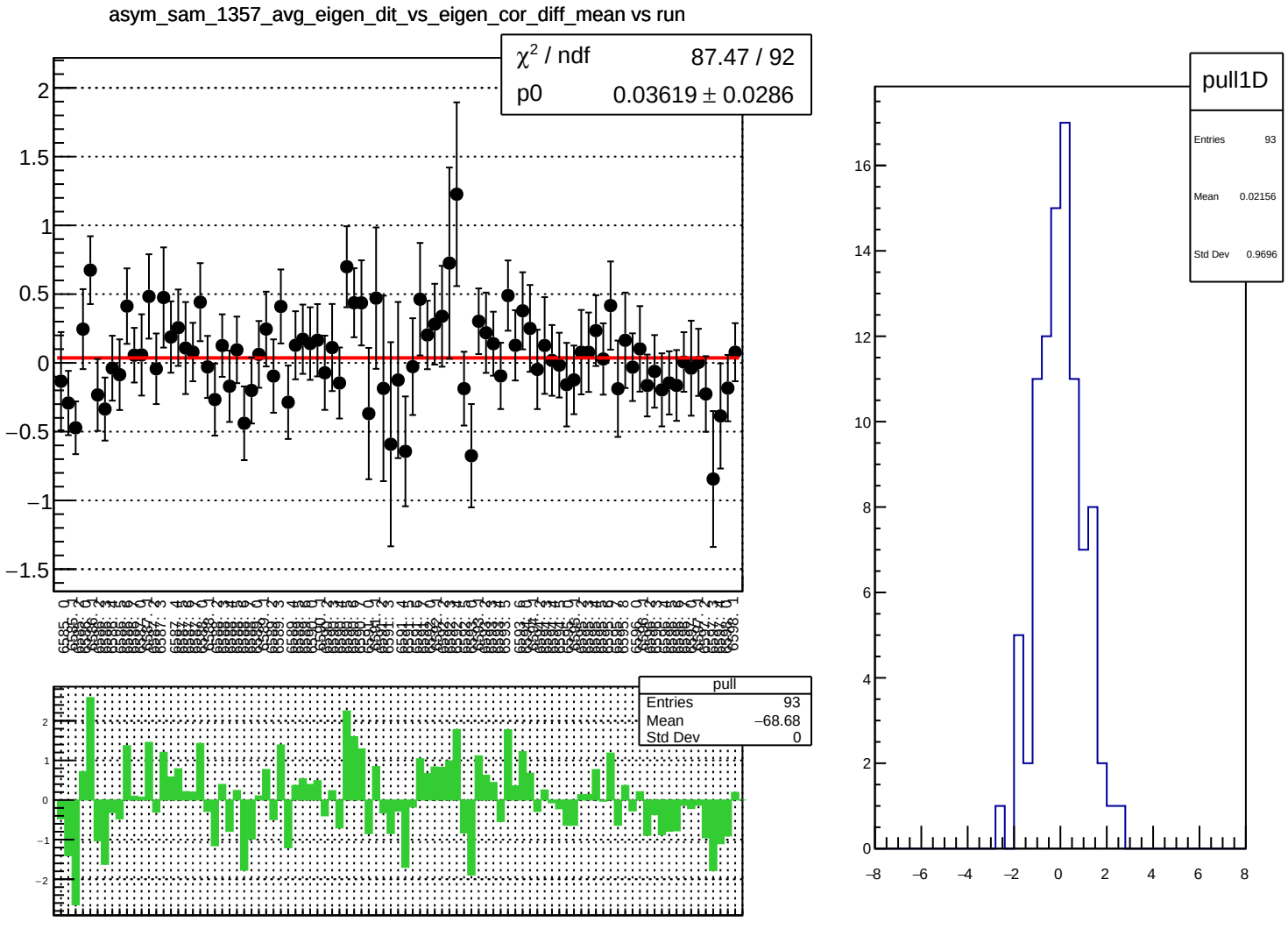

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.421e+04 / 92
p0 26.34 ± 0.02022
70
60
50
40
30
20

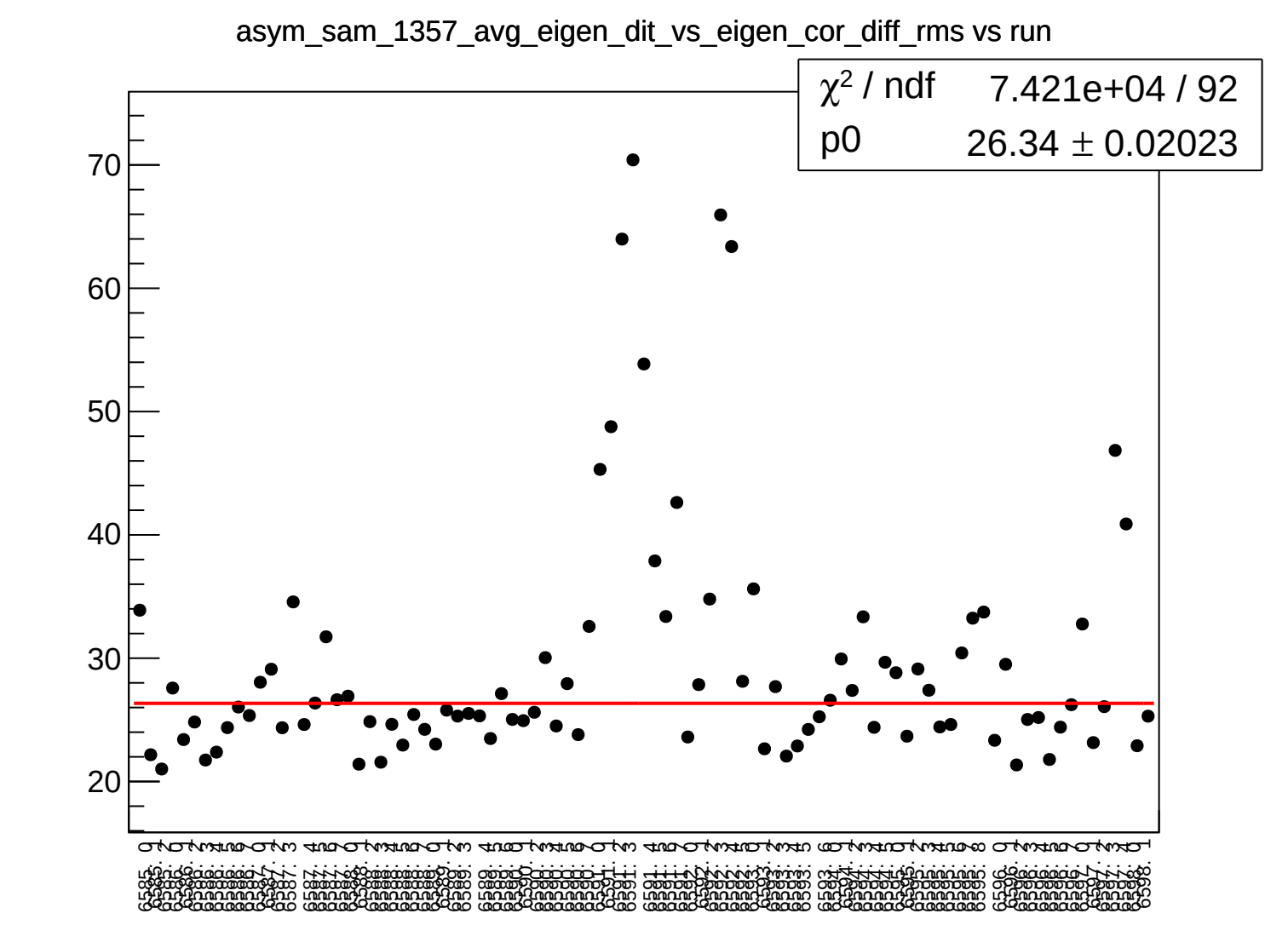

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.8 / 92
p0 −6.226e−07 ± 1.706e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 346.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.007296
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

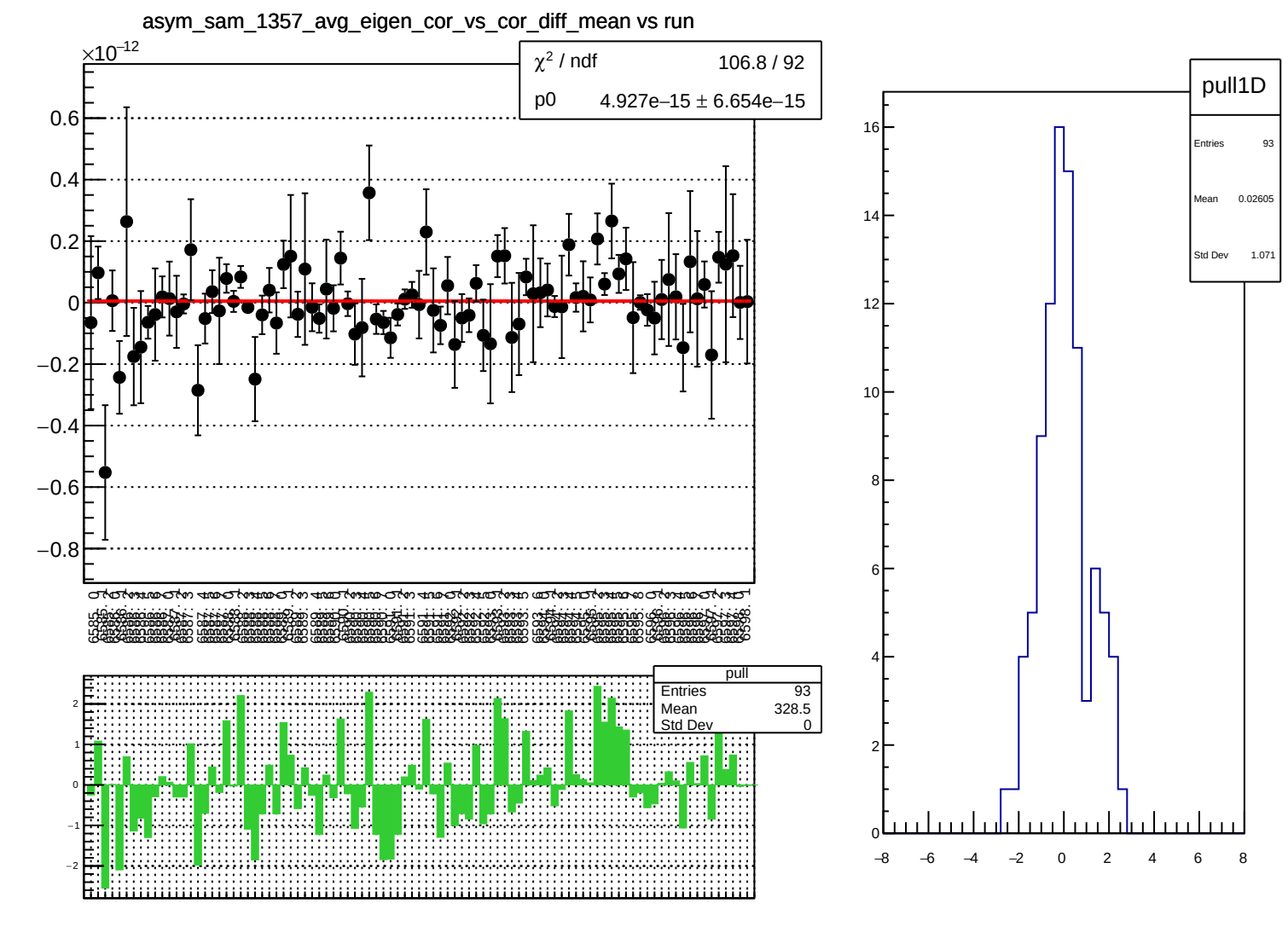

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3172 / 92
p0 0.001604 ± 1.207e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

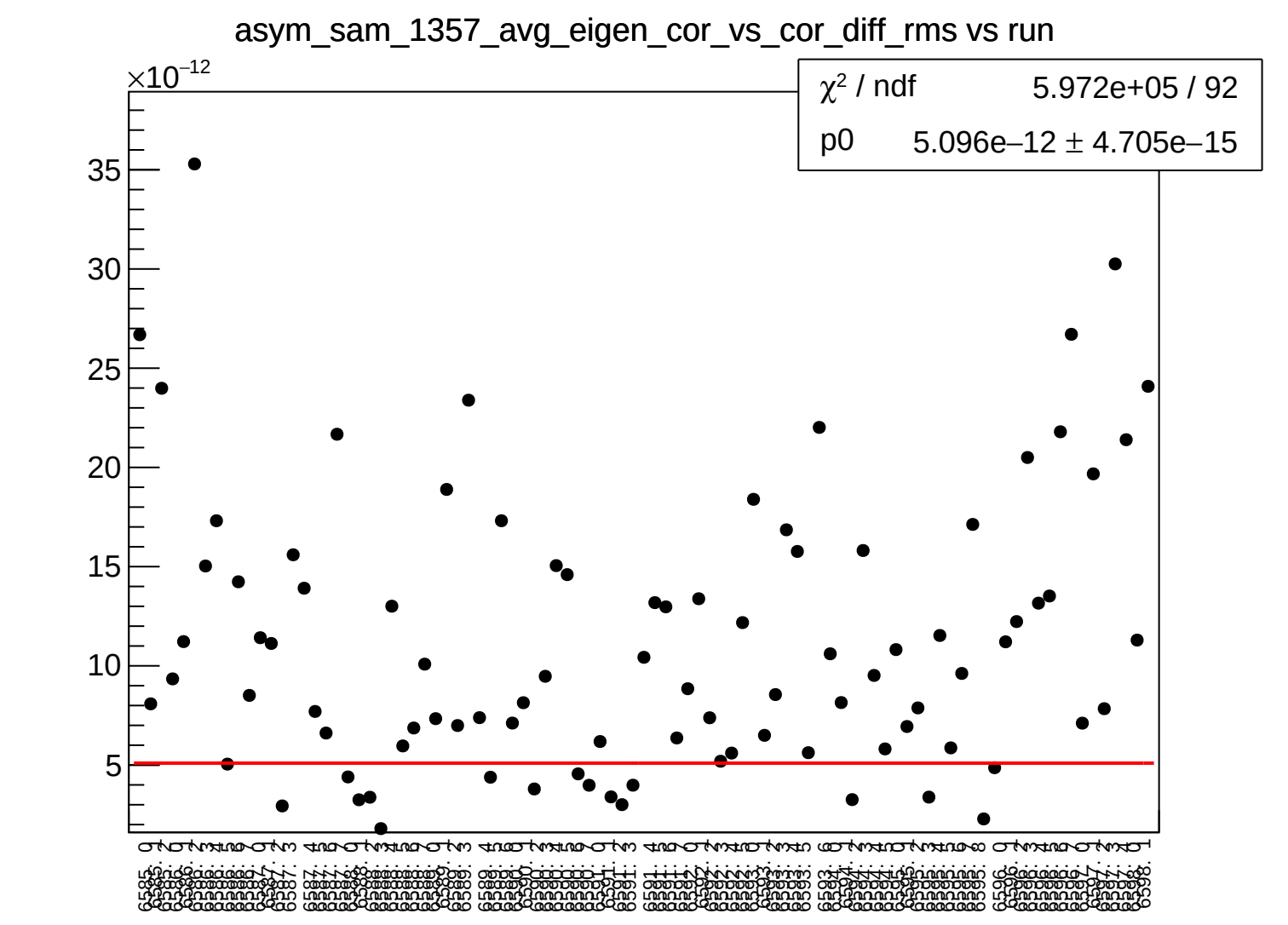

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.47 / 92
p0 0.03619 ± 0.0286
pull
Entries 93
Mean −68.68
Std Dev 0
pull1D
Entries 93
Mean 0.02156
Std Dev 0.9696

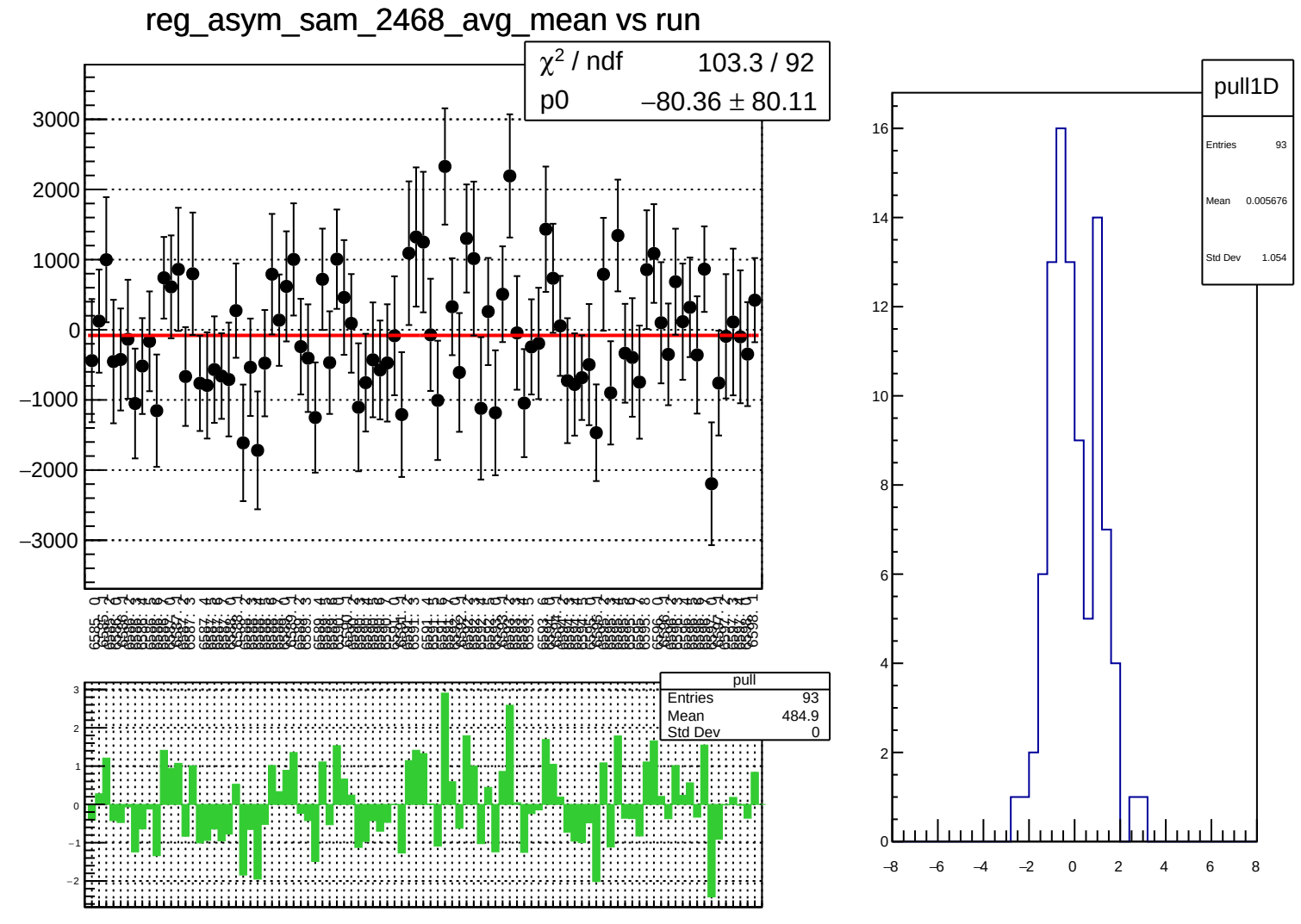

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.421e+04 / 92
p0 26.34 ± 0.02023
70
60
50
40
30
20

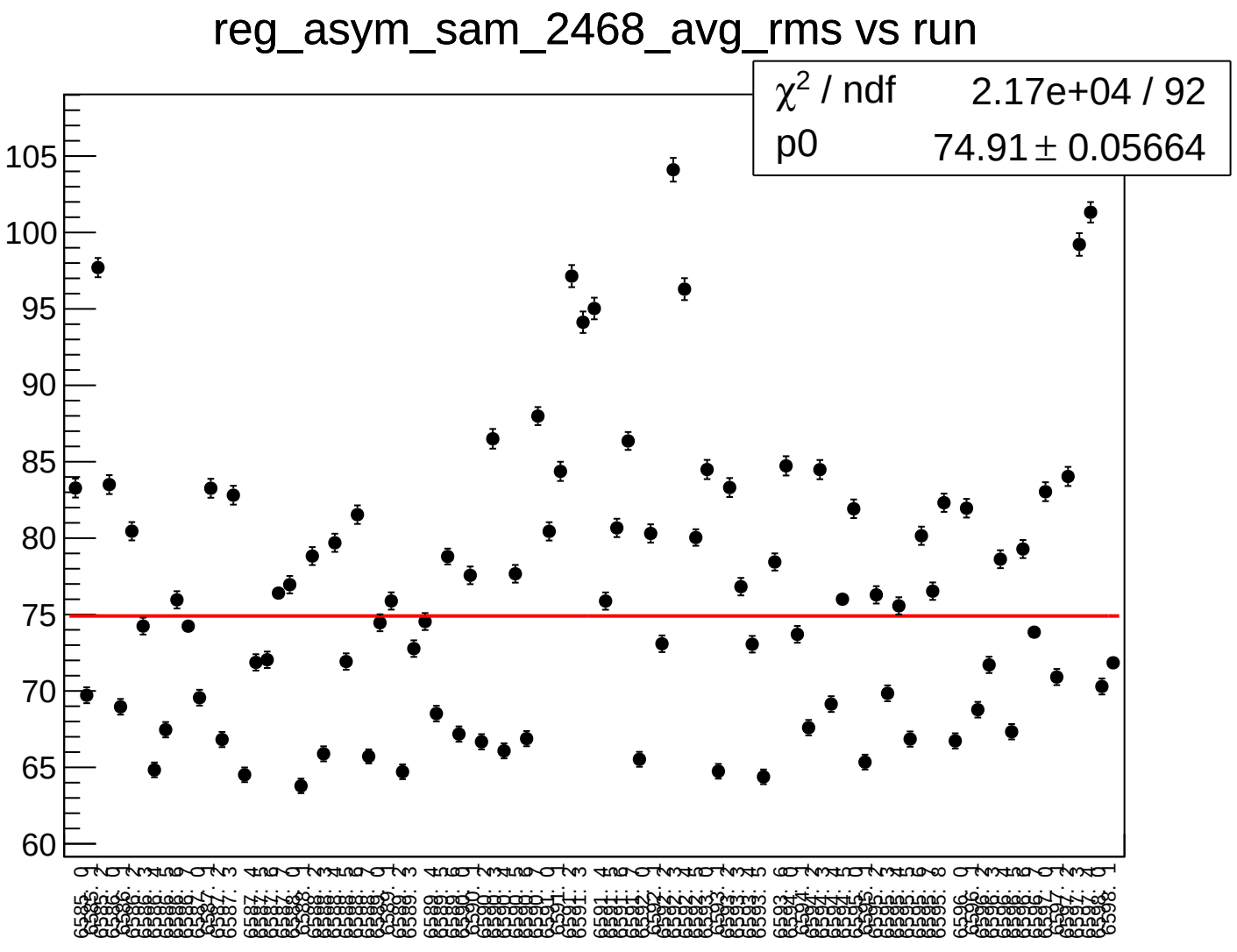

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.47 / 92
p0 0.03619 ± 0.0286
pull
Entries 93
Mean −68.68
Std Dev 0
pull1D
Entries 93
Mean 0.02156
Std Dev 0.9696

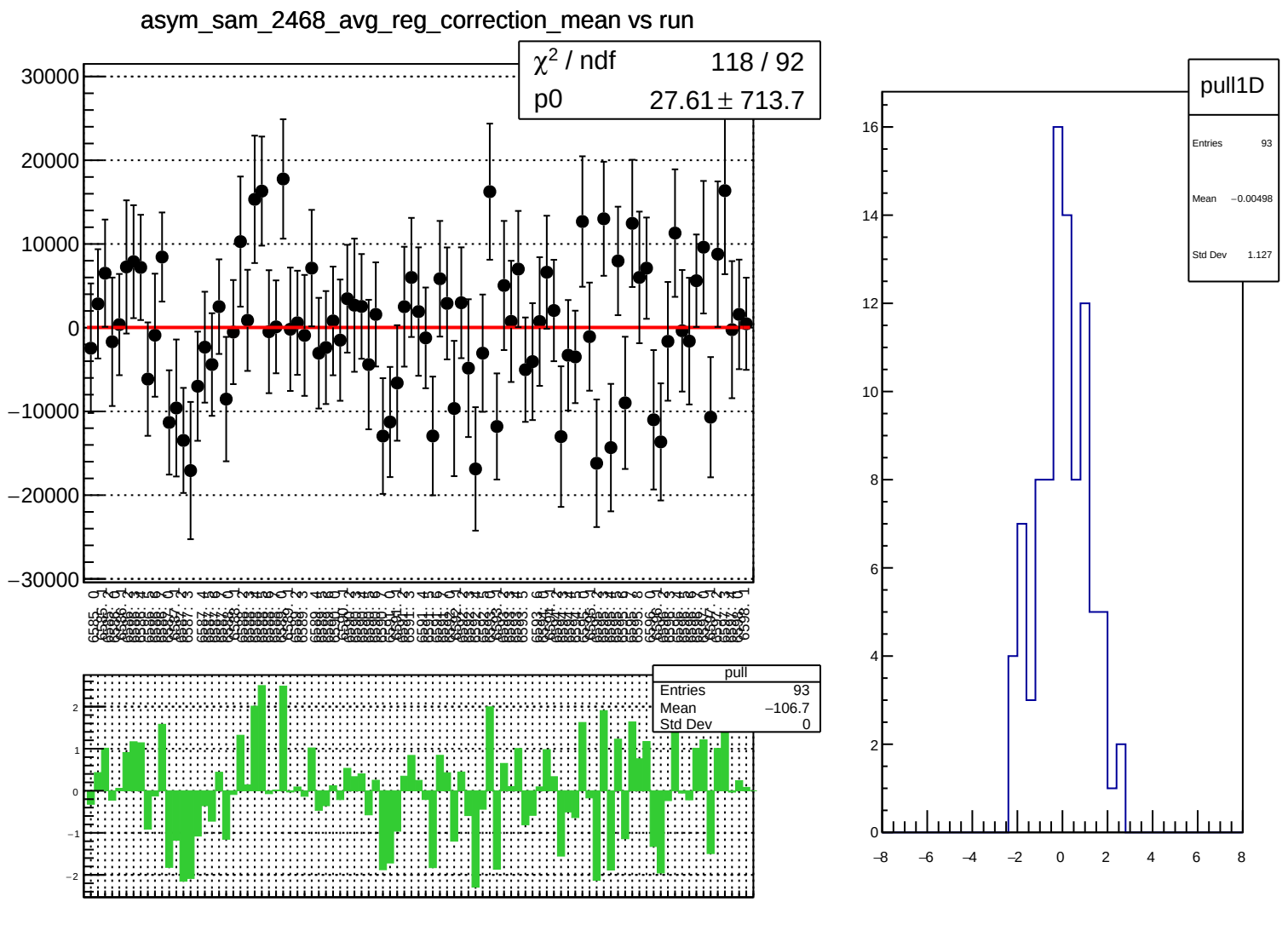

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.421e+04 / 92
p0 26.34 ± 0.02023
70
60
50
40
30
20

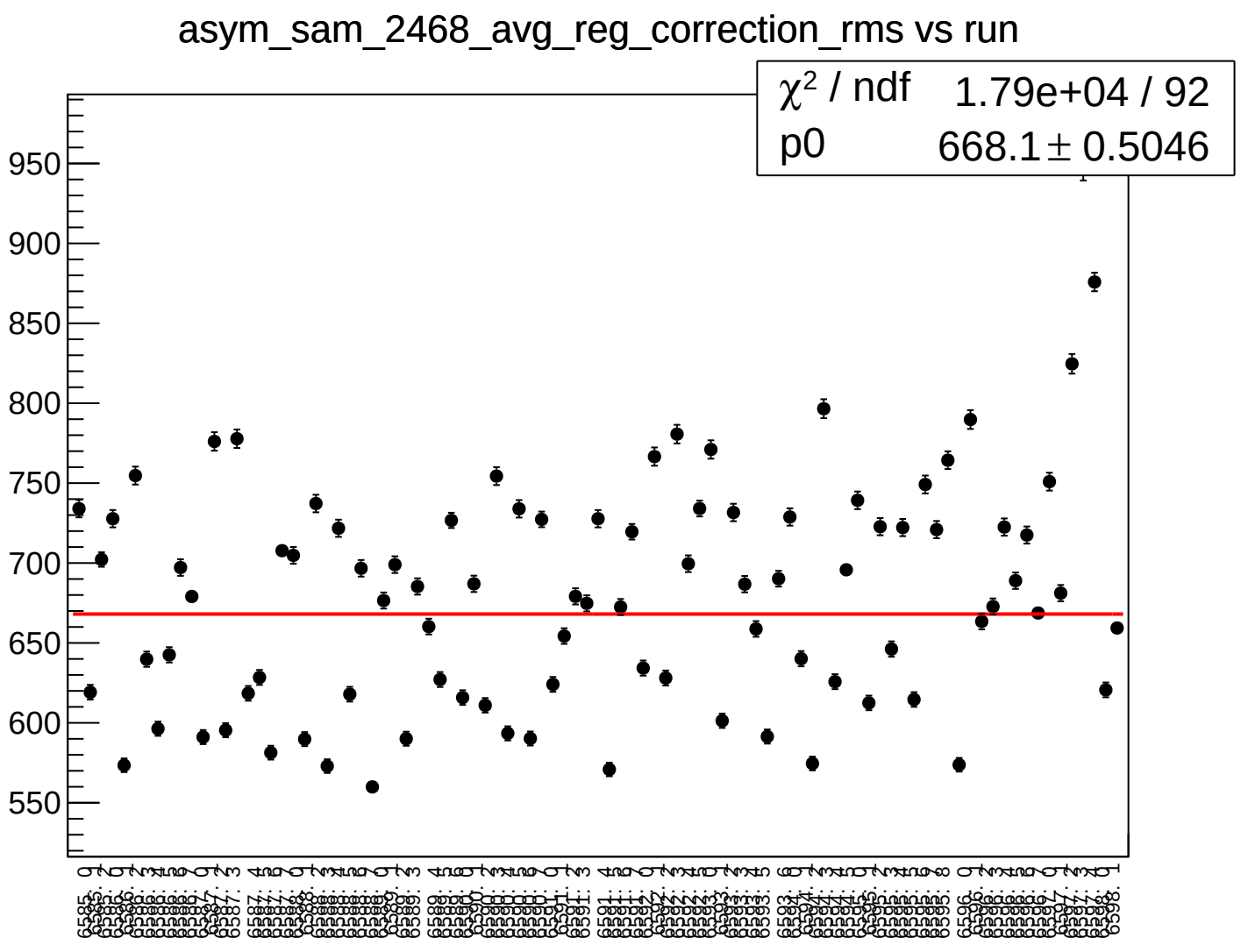

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.8 / 92
p0 4.927e−15 ± 6.654e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 93
Mean 328.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02605
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

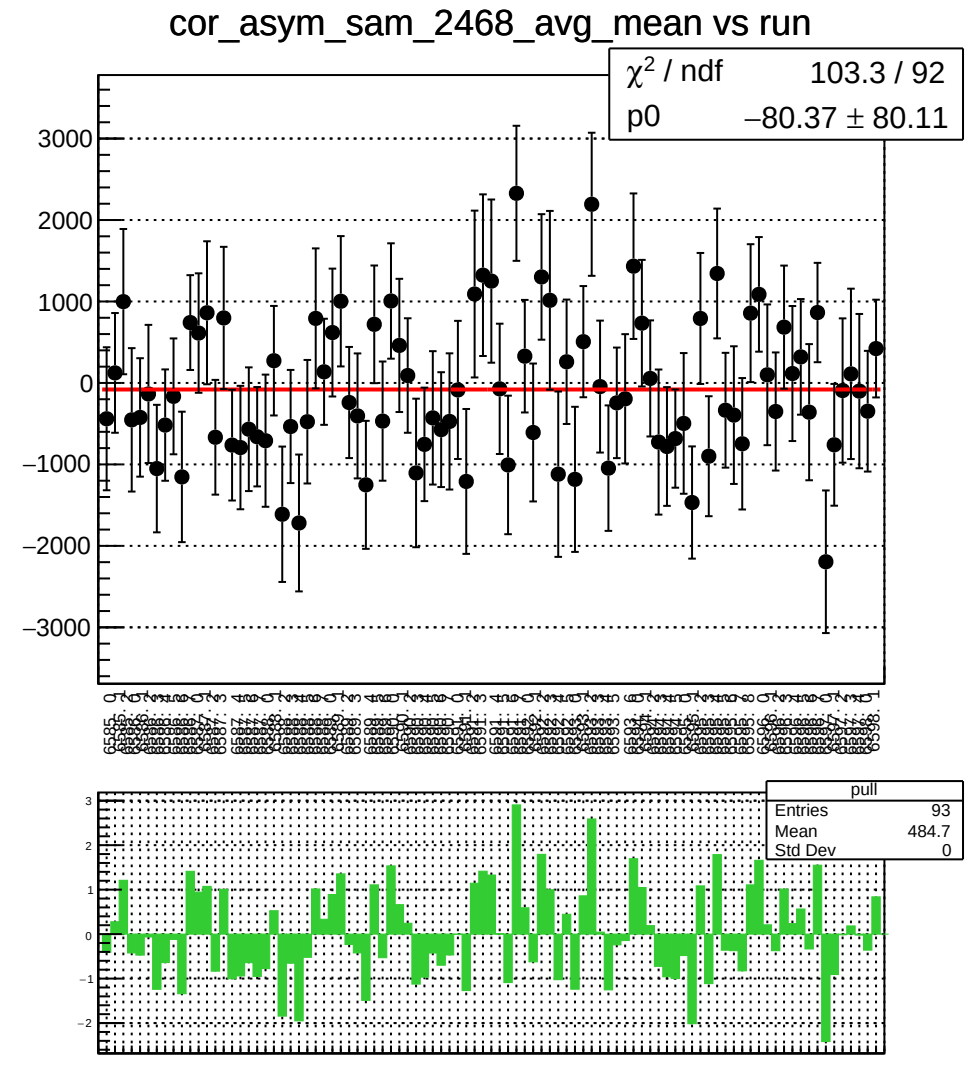

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.972e+05 / 92
p0 5.096e−12 ± 4.705e−15
35
30
25
20
15
10
5

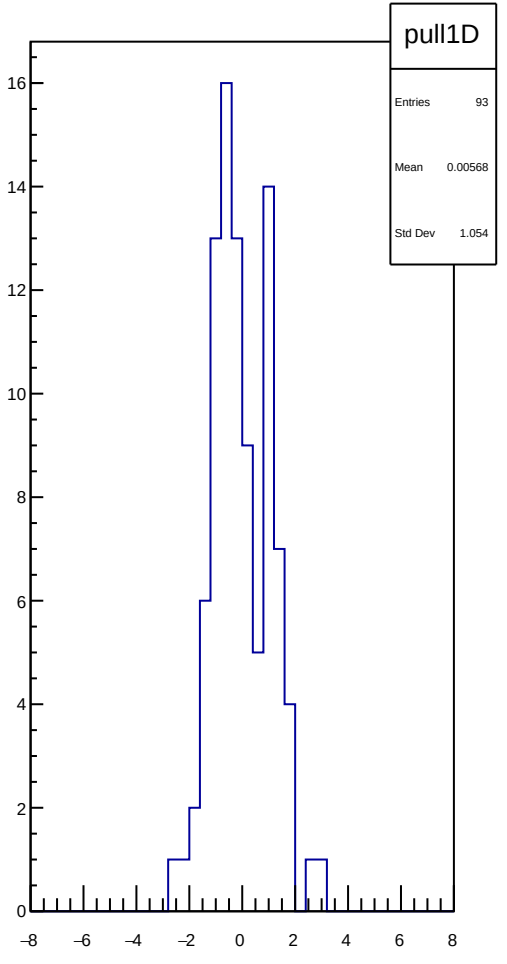

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 103.3 / 92
p0 −80.36 ± 80.11
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 484.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005676
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

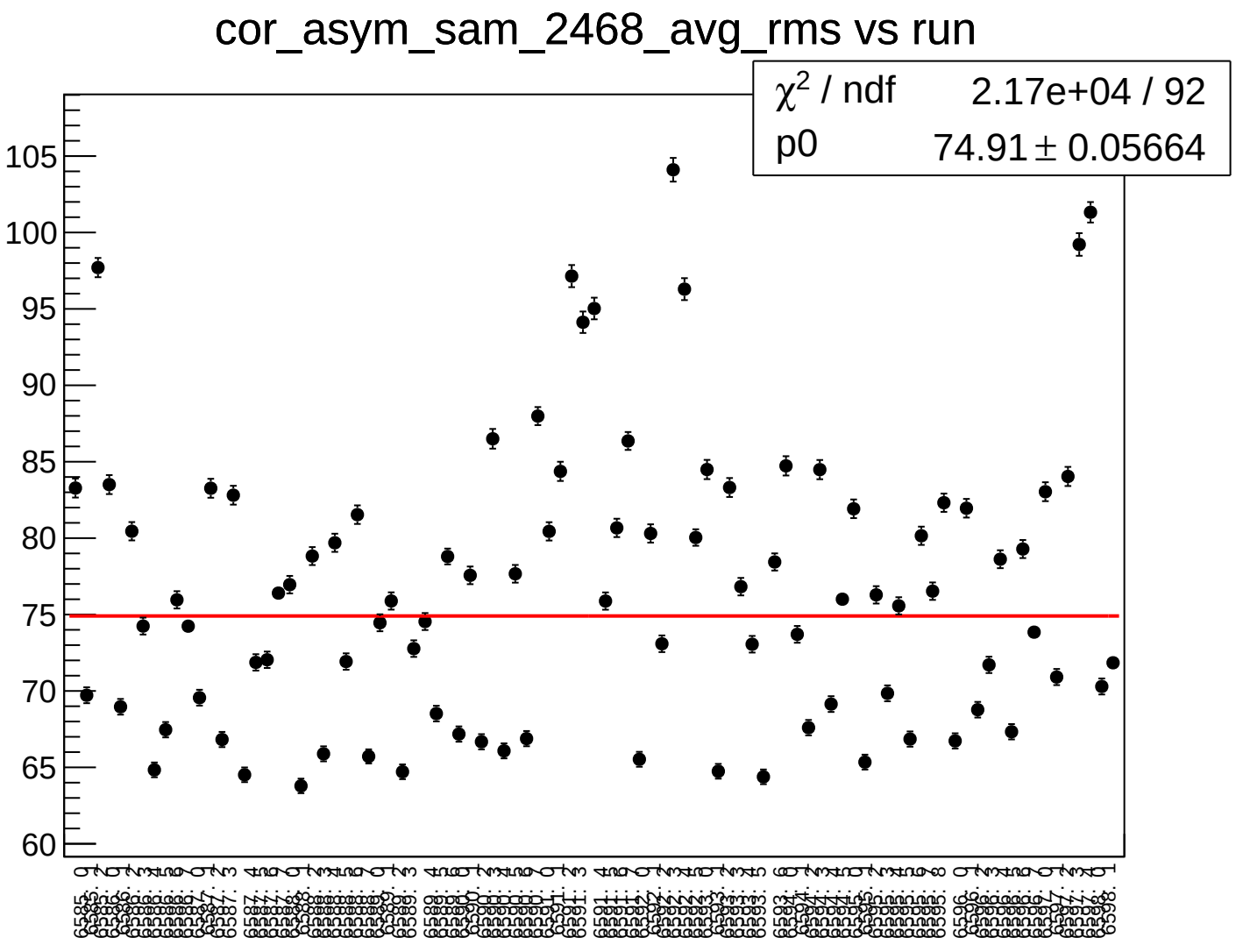

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.17e+04 / 92
p0 74.91 ± 0.05664
105
100
95
90
85
80
75
70
65
60

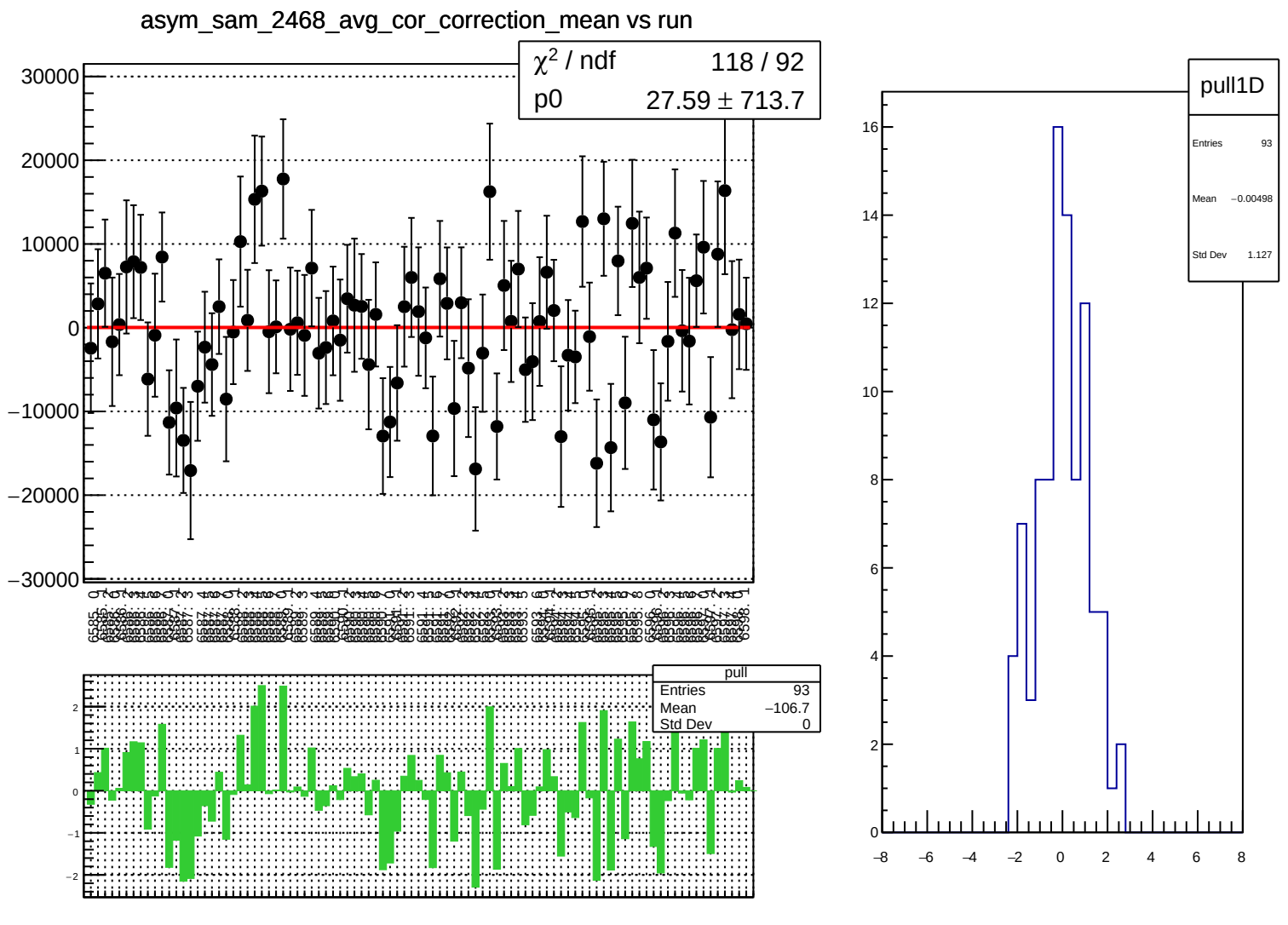

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 118 / 92
p0 27.61 ± 713.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −106.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.00498
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

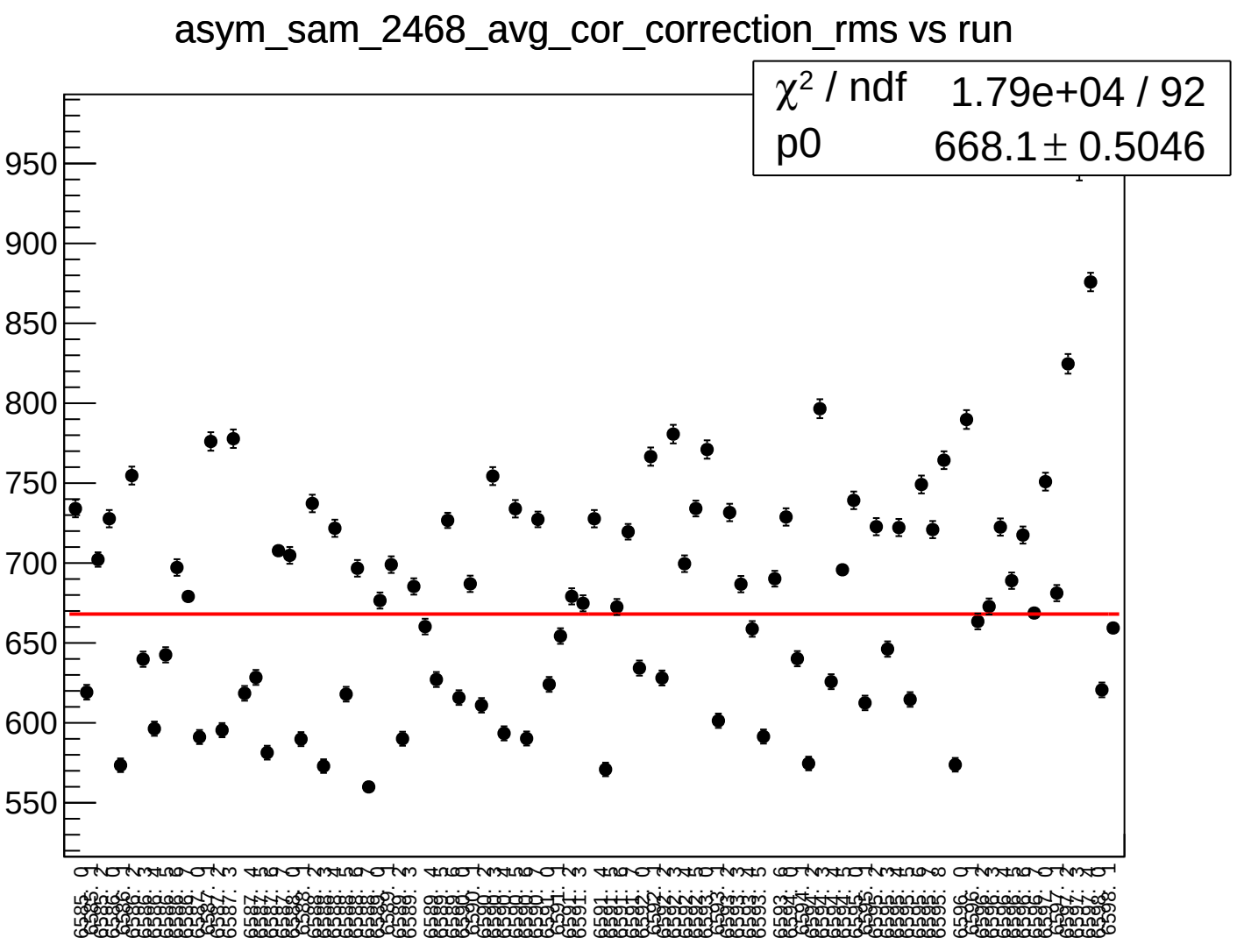

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.79e+04 / 92
p0 668.1 ± 0.5046
950
900
850
800
750
700
650
600
550

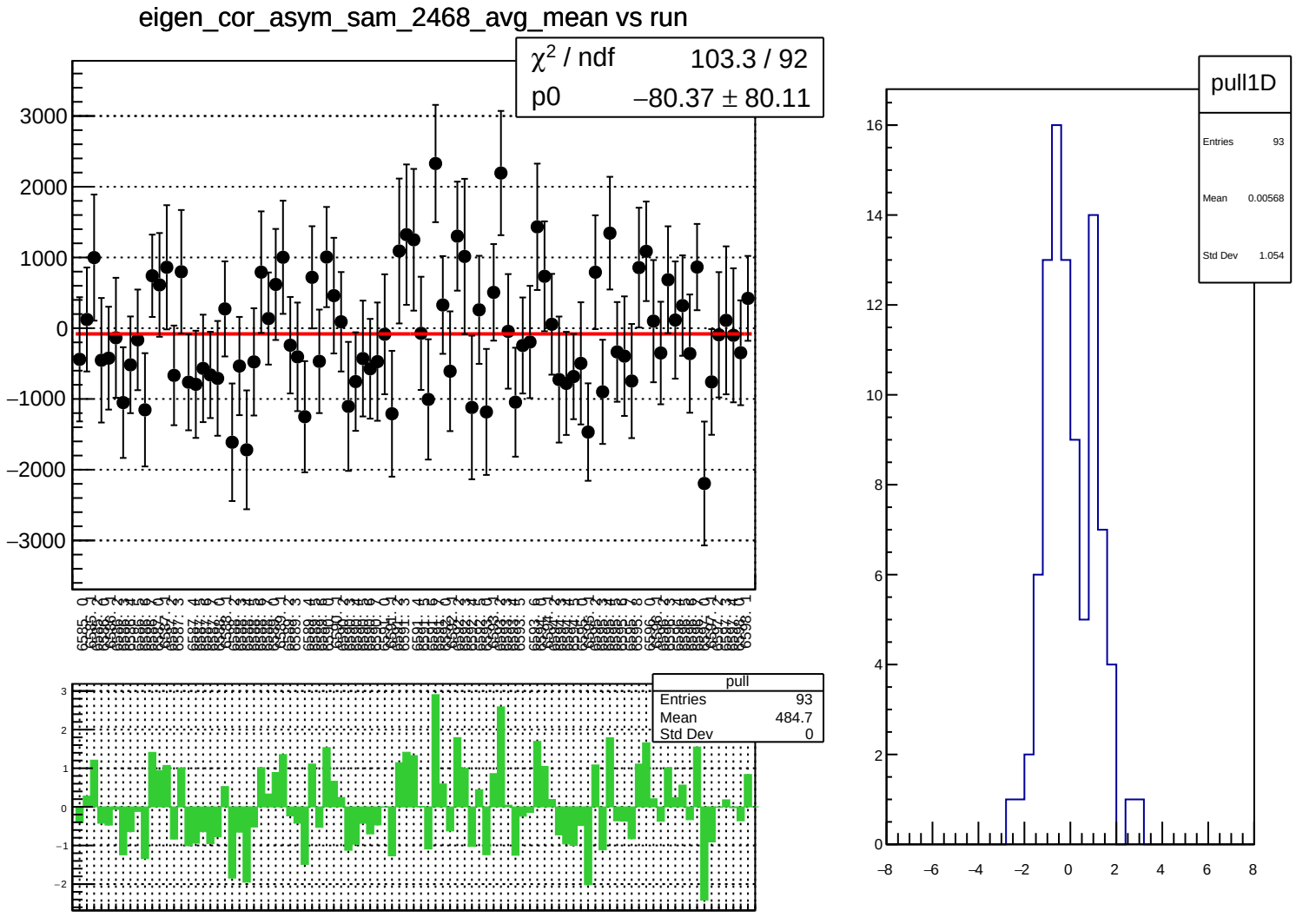

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 103.3 / 92
p0 −80.37 ± 80.11
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 484.7
Std Dev 0
3
2
1
0
−1
−2

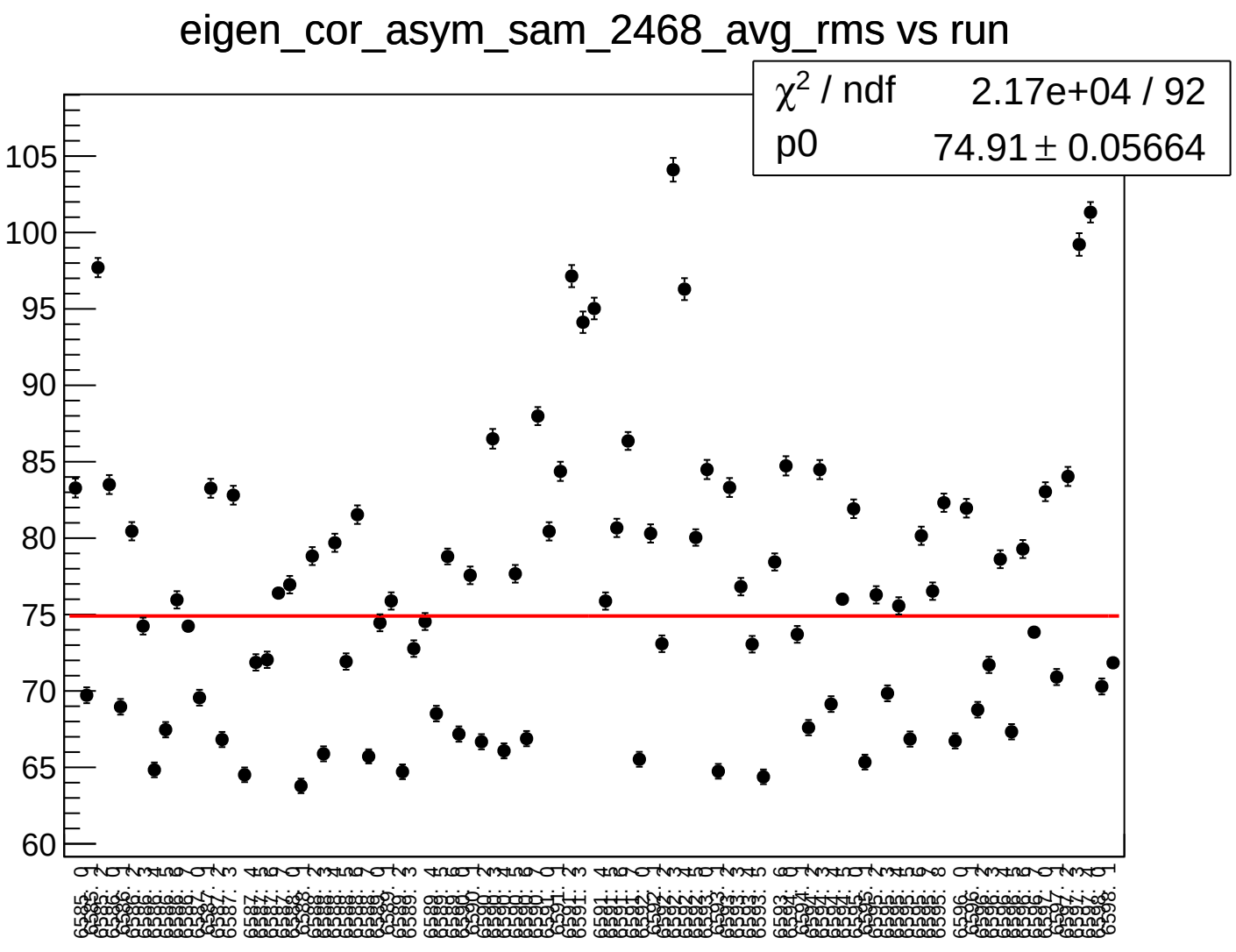

pull1D
Entries 93
Mean 0.00568
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

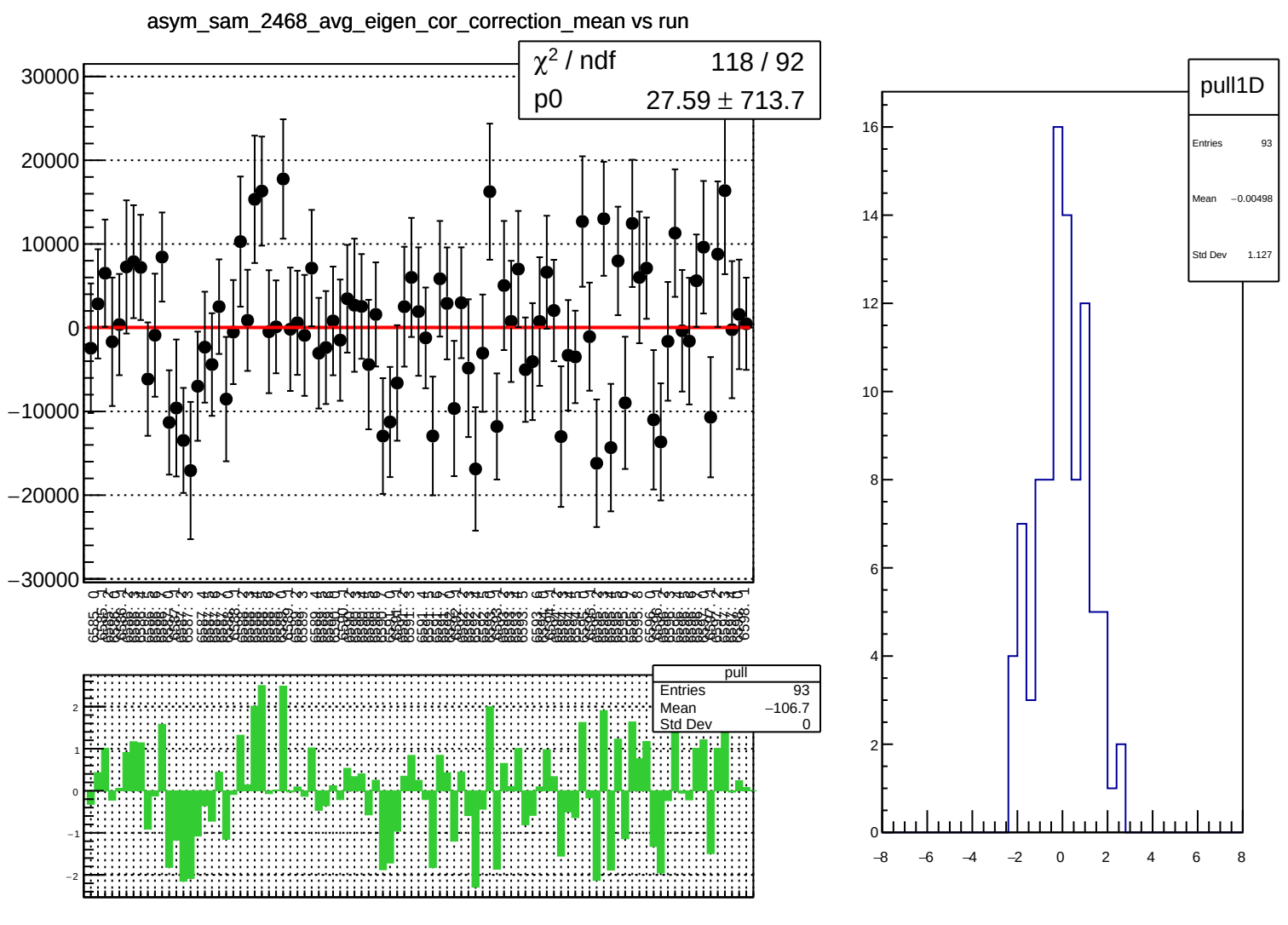

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.17e+04 / 92
p0 74.91 ± 0.05664
105
100
95
90
85
80
75
70
65
60

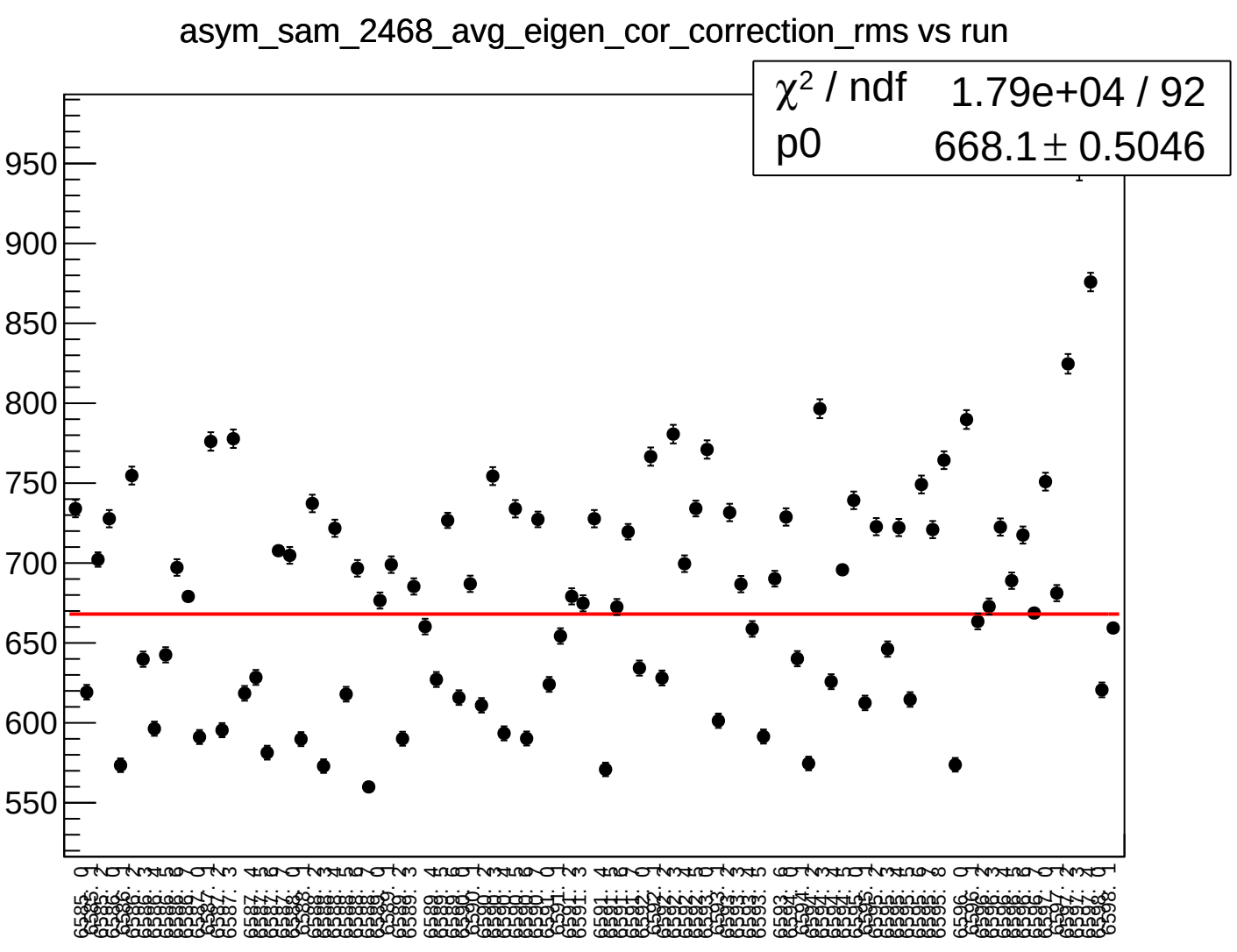

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 118 / 92
p0 27.59 ± 713.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −106.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.00498
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

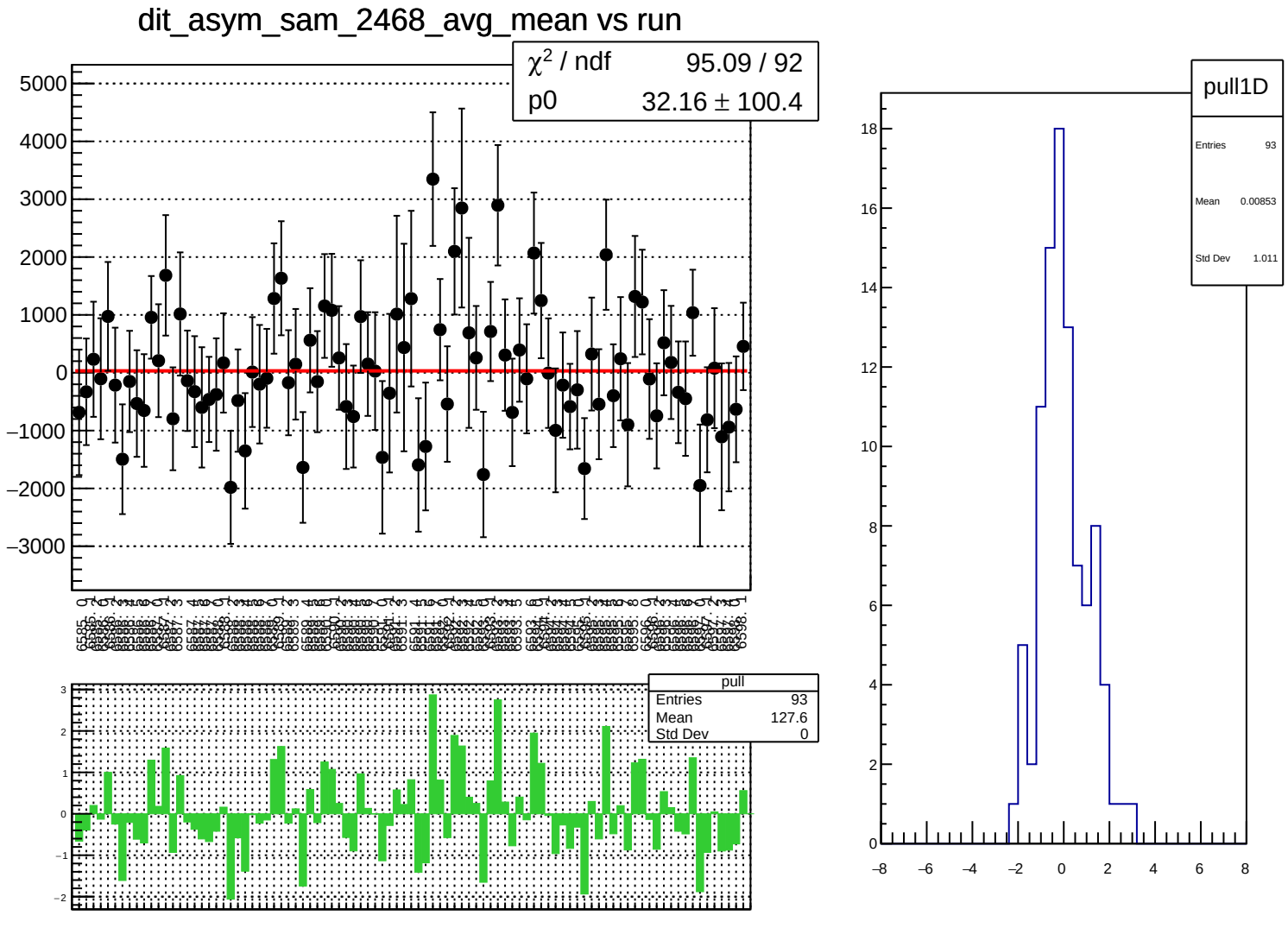

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.79e+04 / 92
p0 668.1 ± 0.5046
950
900
850
800
750
700
650
600
550

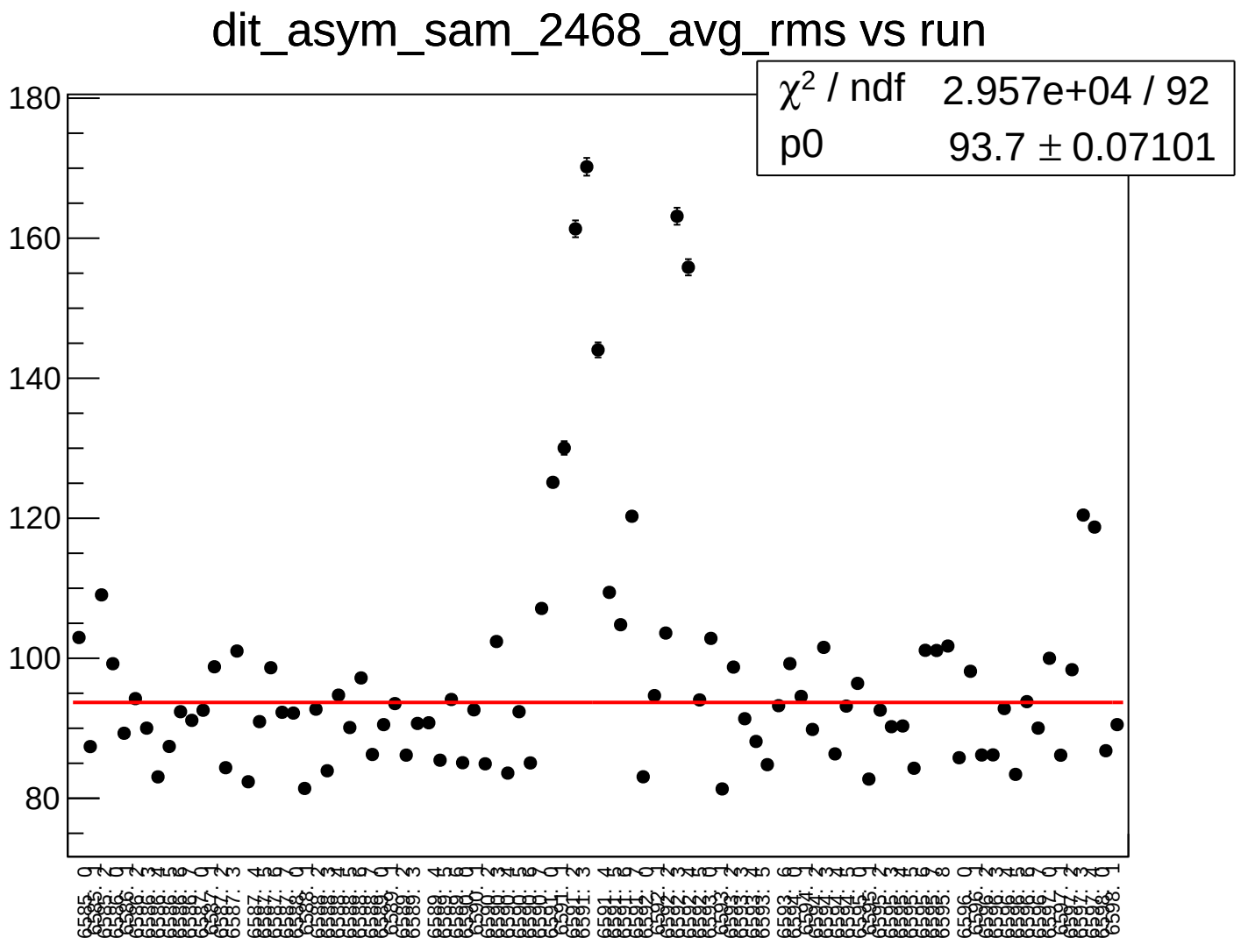

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 103.3 / 92
p0 −80.37 ± 80.11
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 484.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.00568
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

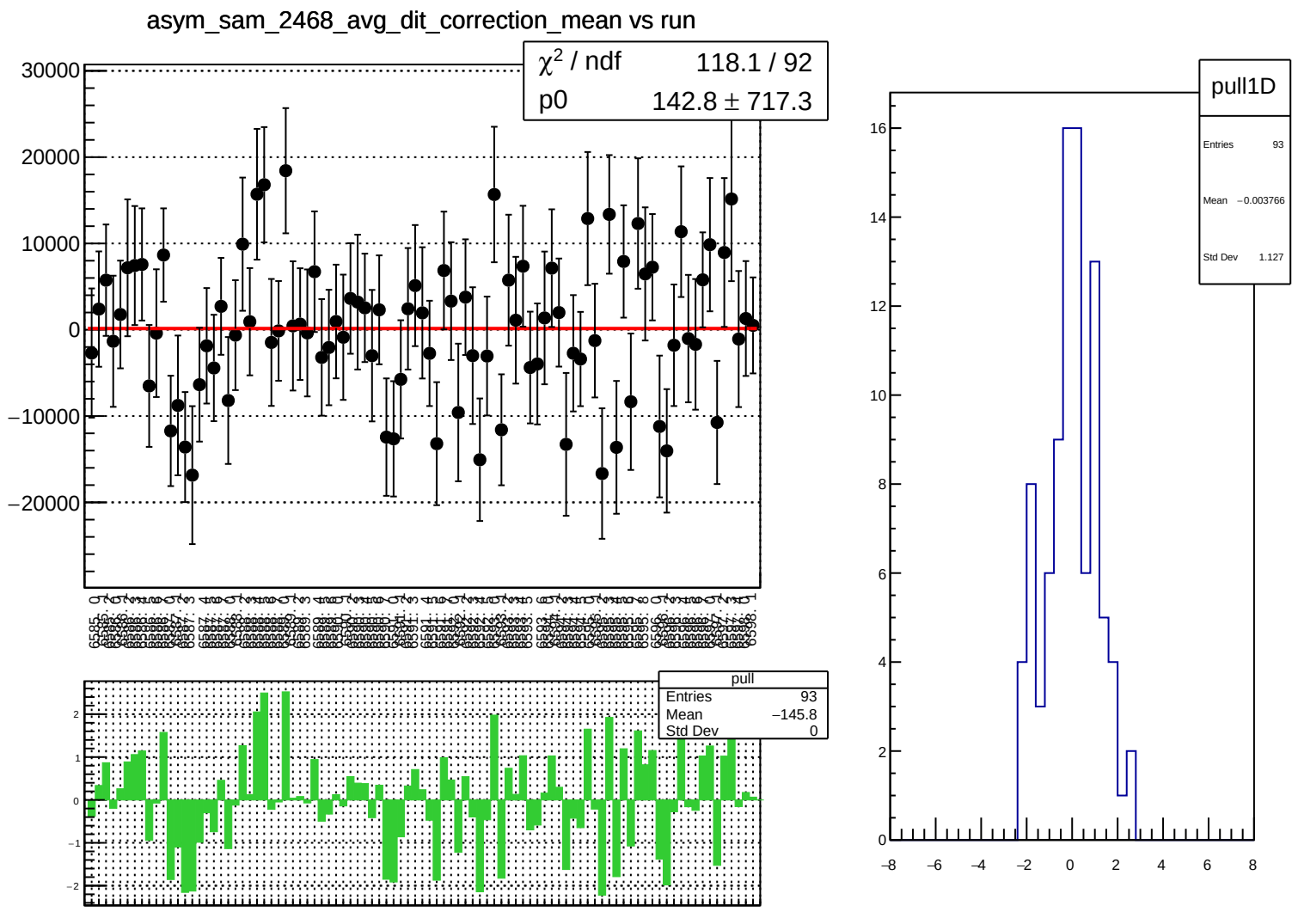

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2.17e+04 / 92
p0 74.91 ± 0.05664
105
100
95
90
85
80
75
70
65
60

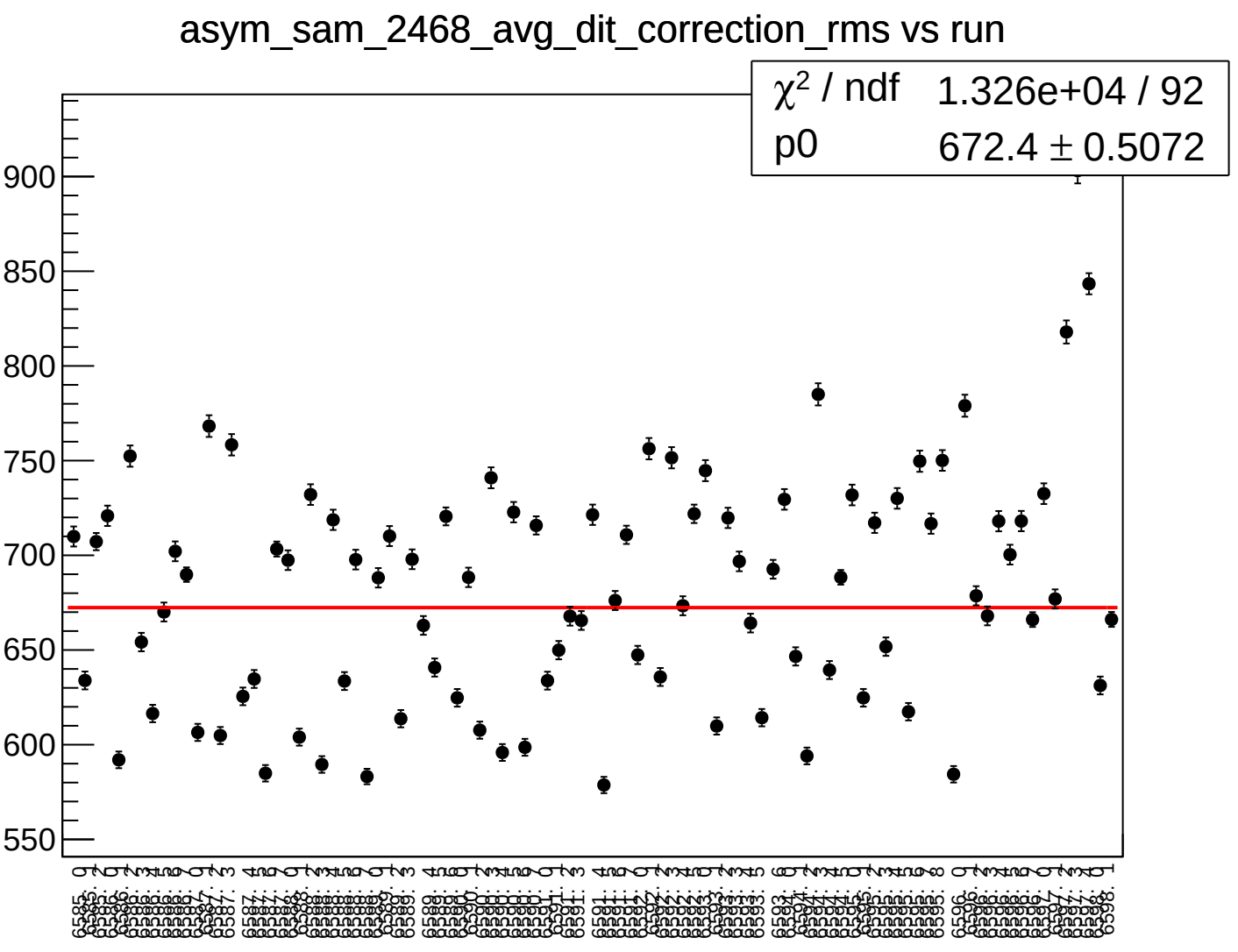

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 118 / 92
p0 27.59 ± 713.7
pull
Entries 93
Mean −106.7
Std Dev 0
pull1D
Entries 93
Mean −0.00498
Std Dev 1.127

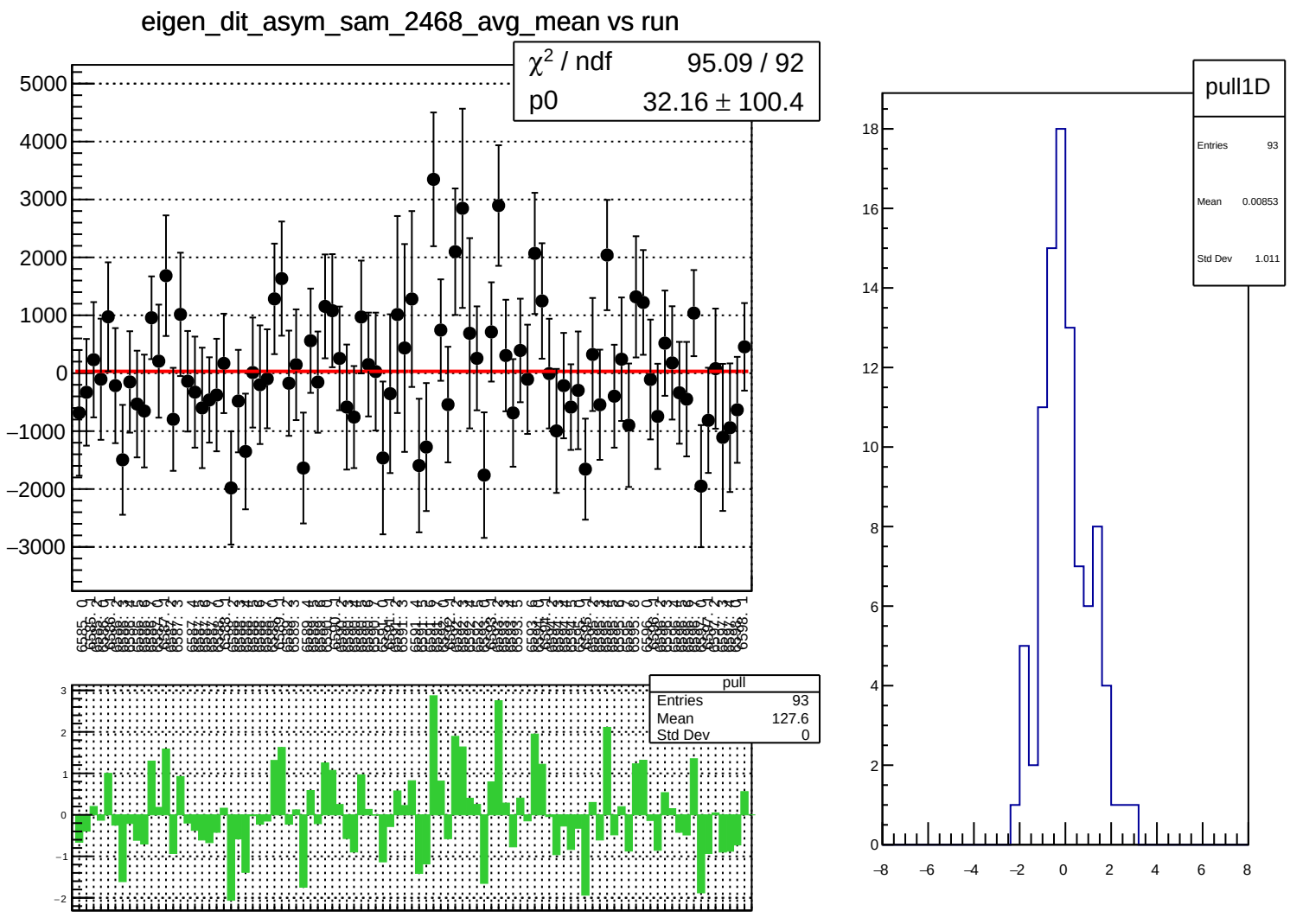

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.79e+04 / 92
p0 668.1 ± 0.5046
950
900
850
800
750
700
650
600
550

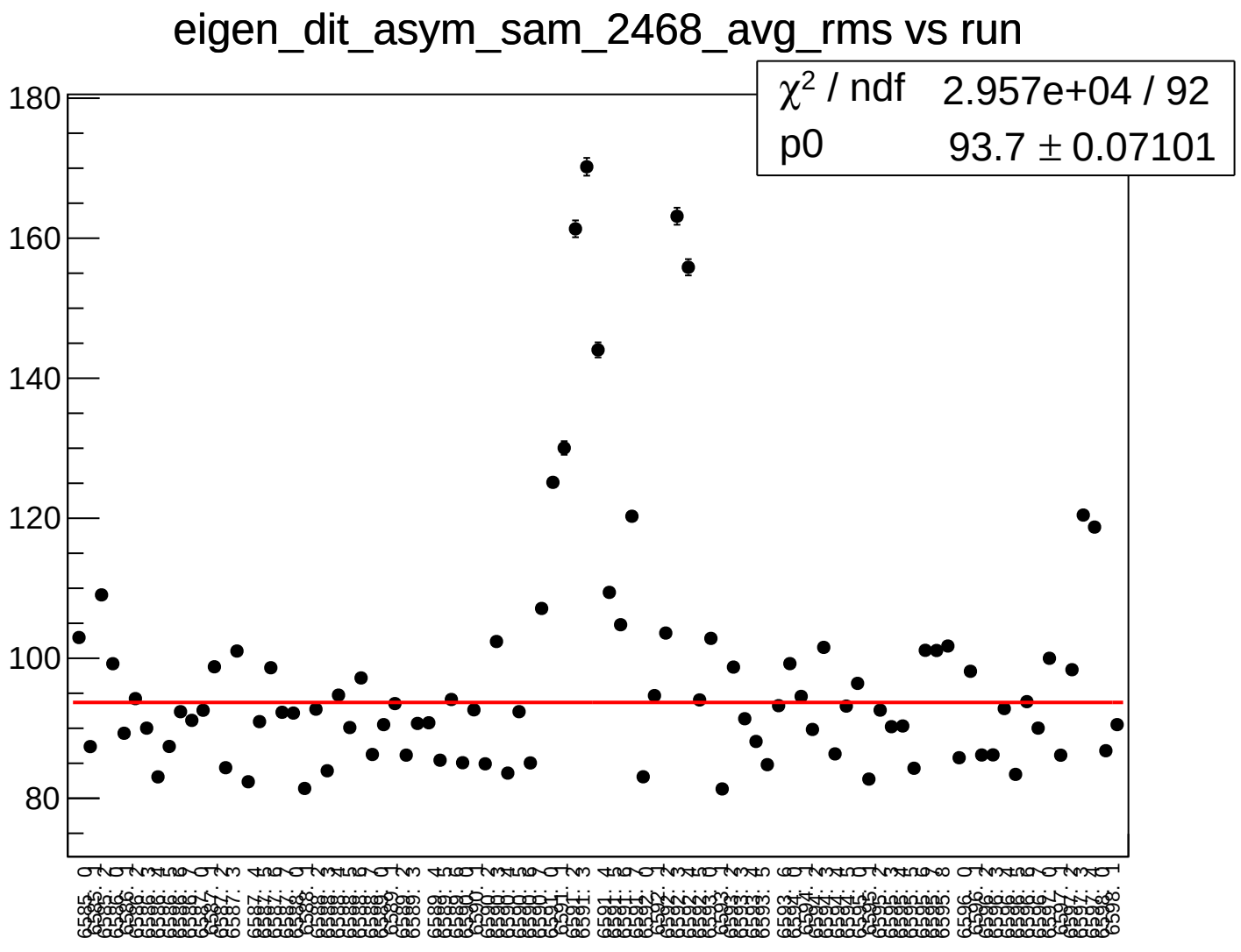

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 95.09 / 92
p0 32.16 ± 100.4
pull
Entries 93
Mean 127.6
Std Dev 0
pull1D
Entries 93
Mean 0.00853
Std Dev 1.011

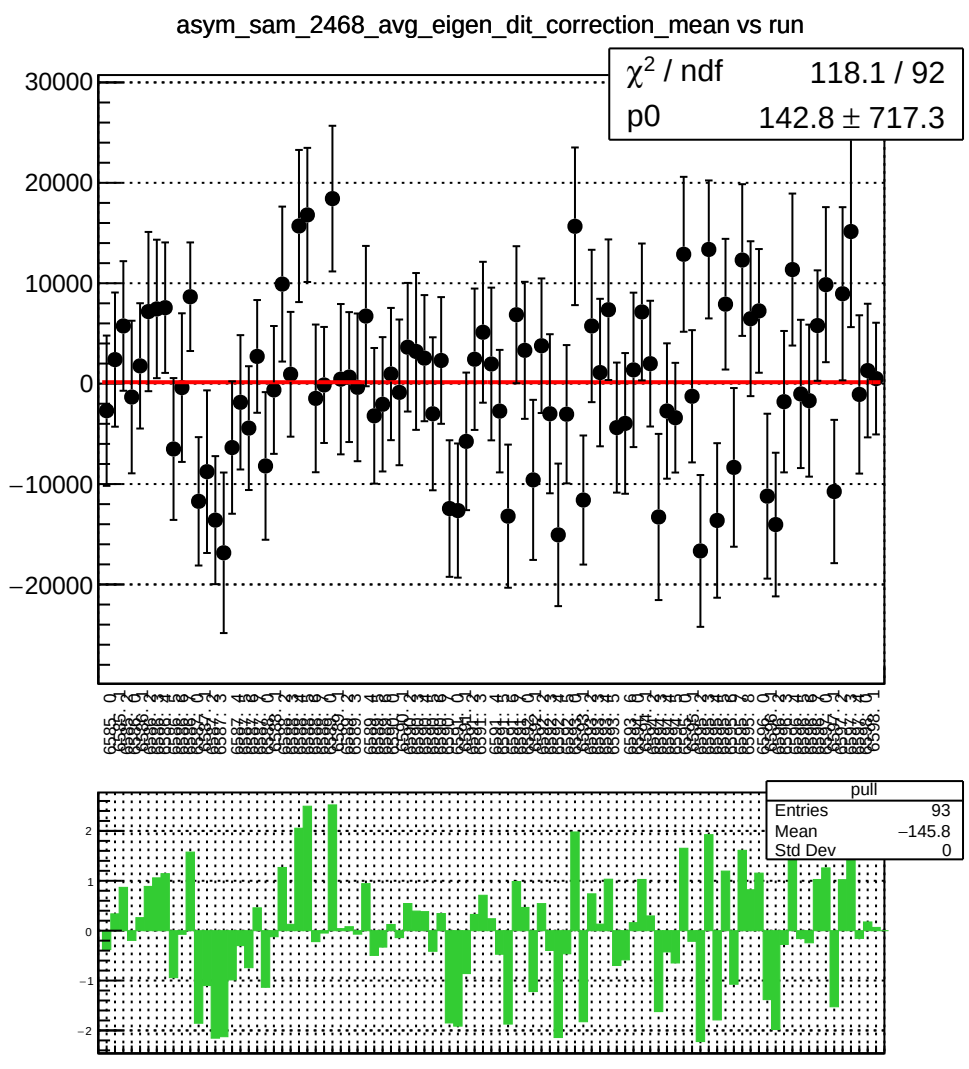

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.957e+04 / 92
p0 93.7 ± 0.07101
180
160
140
120
100
80

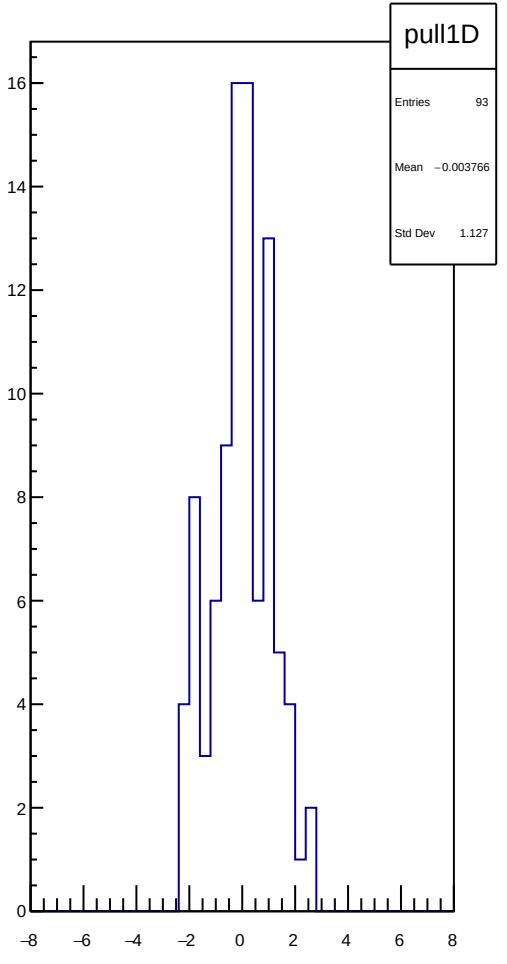

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 118.1 / 92
p0 142.8 ± 717.3
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −145.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003766
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

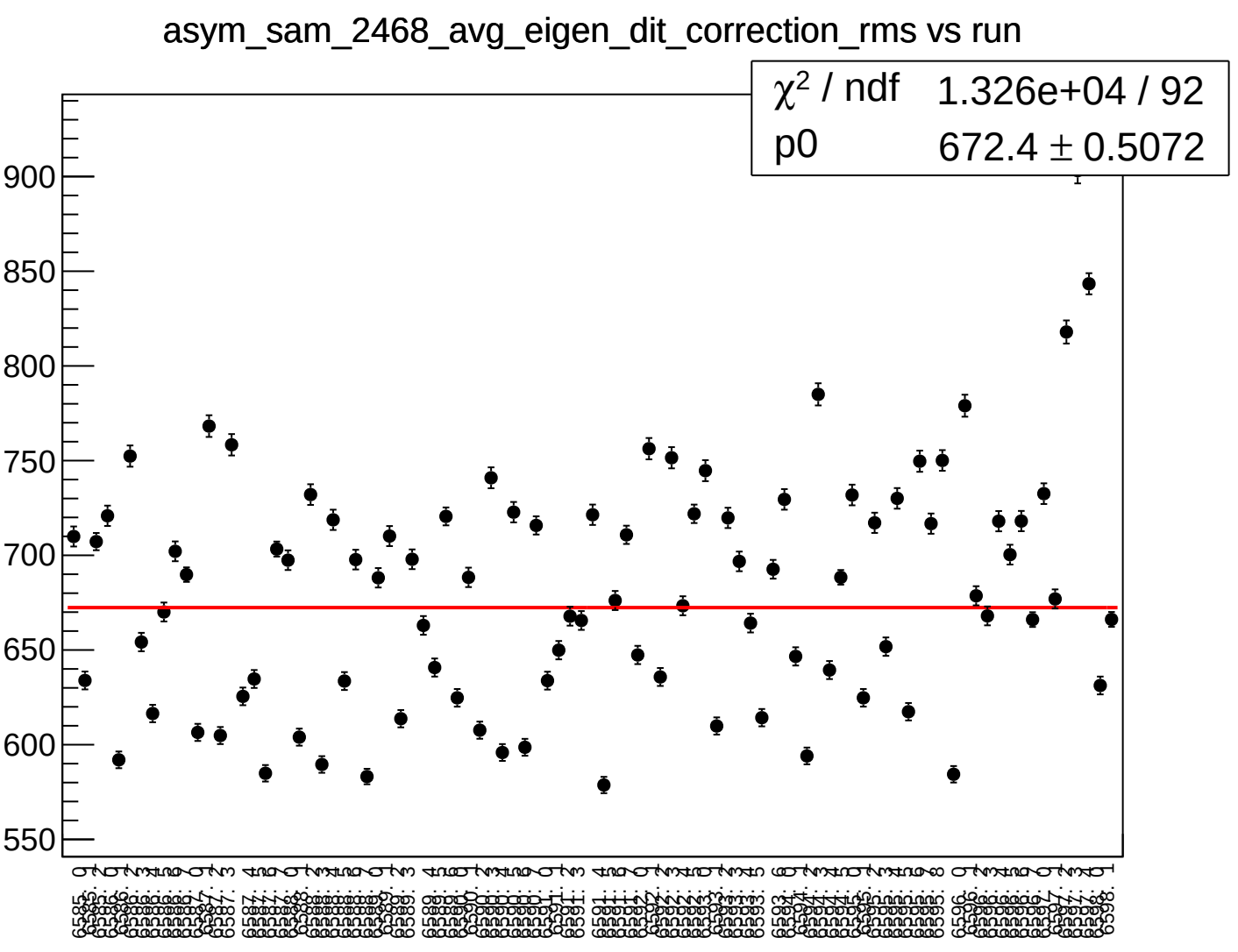

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.326e+04 / 92
p0 672.4 ± 0.5072
900
850
800
750
700
650
600
550

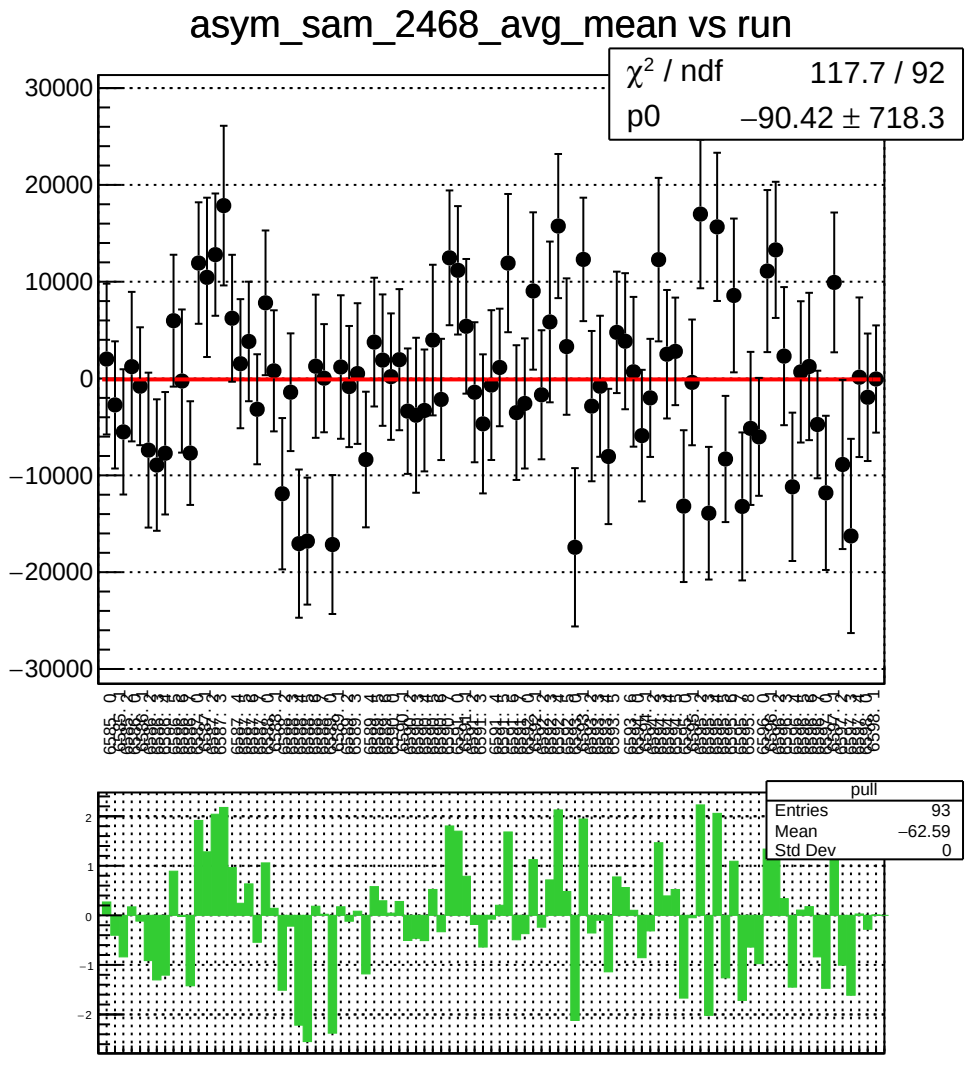

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 95.09 / 92
p0 32.16 ± 100.4
pull
Entries 93
Mean 127.6
Std Dev 0
pull1D
Entries 93
Mean 0.00853
Std Dev 1.011

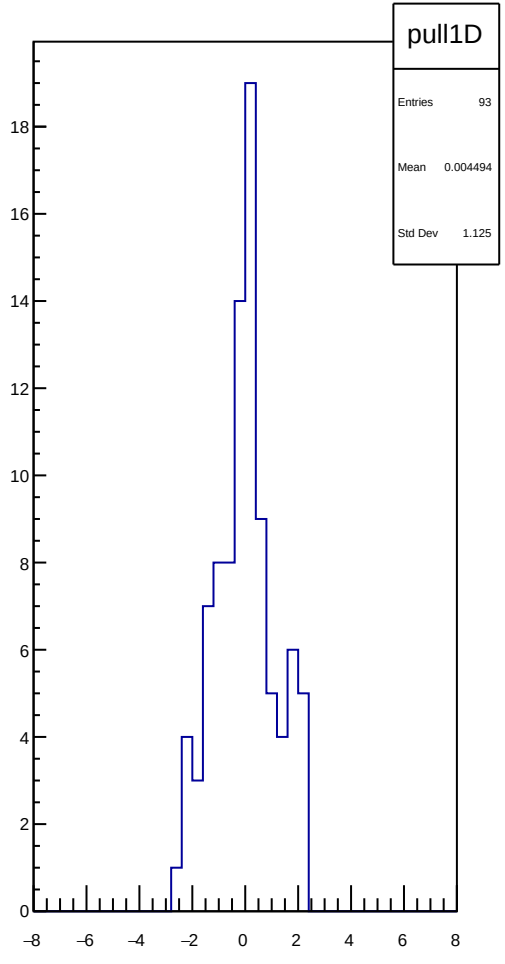

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.957e+04 / 92
p0 93.7 ± 0.07101
180
160
140
120
100
80

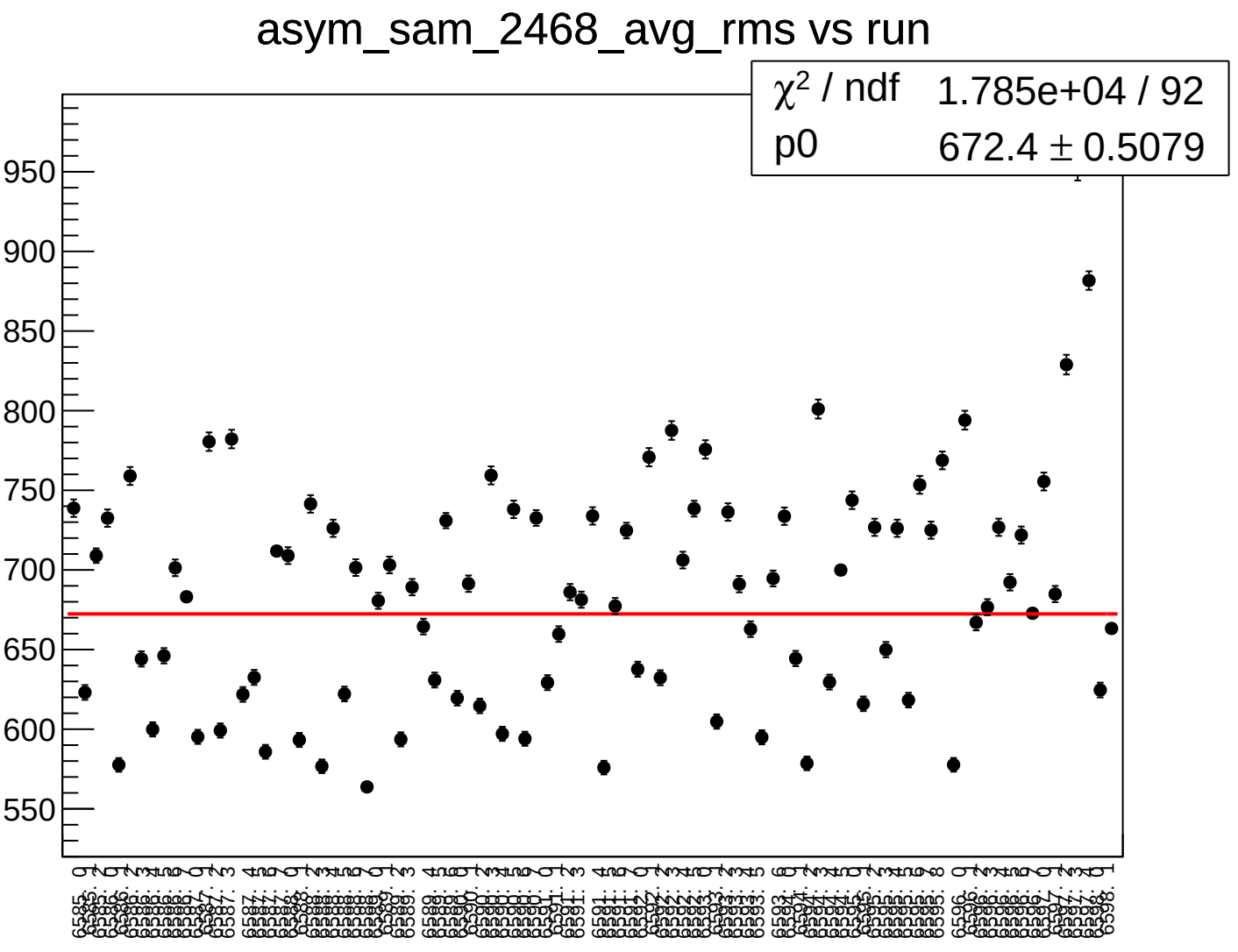

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 118.1 / 92
p0 142.8 ± 717.3
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −145.8
Std Dev 0
2
1
0
−1
−2

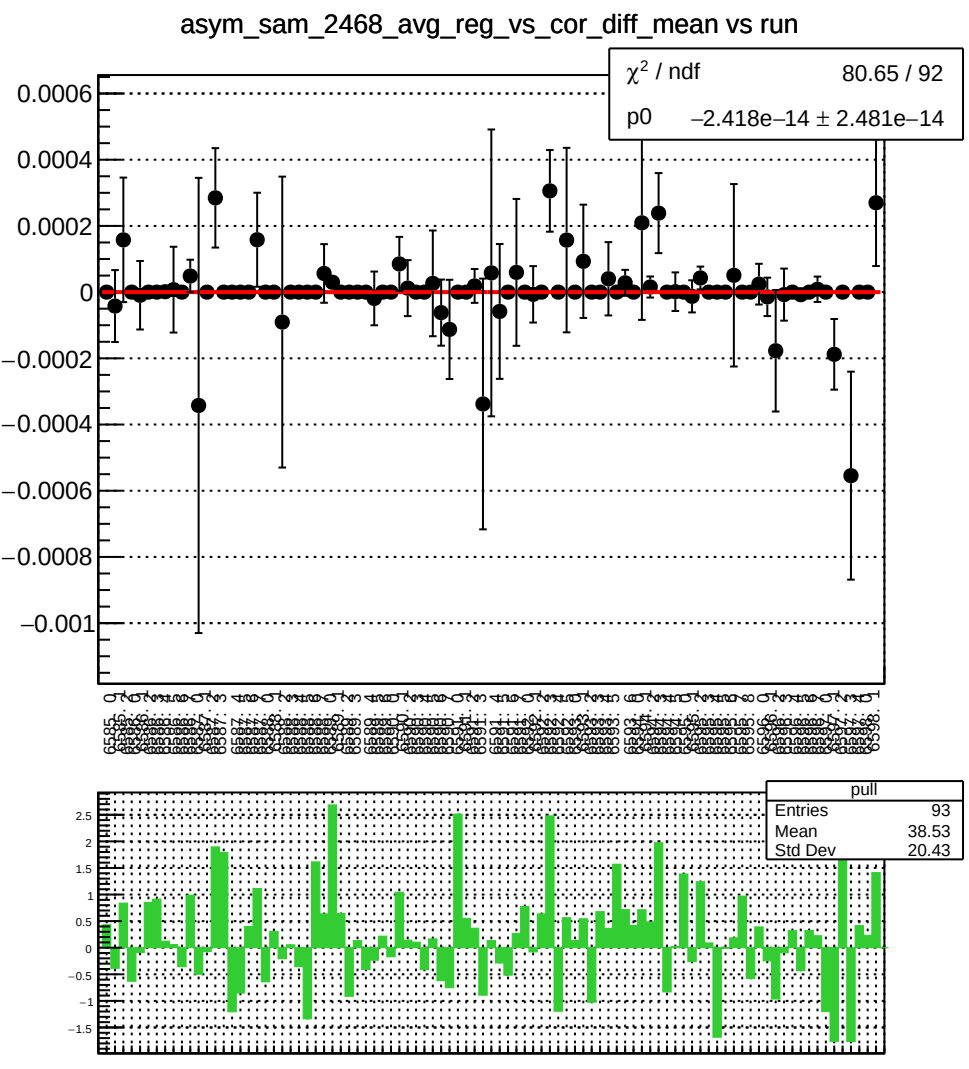

pull1D
Entries 93
Mean −0.003766
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

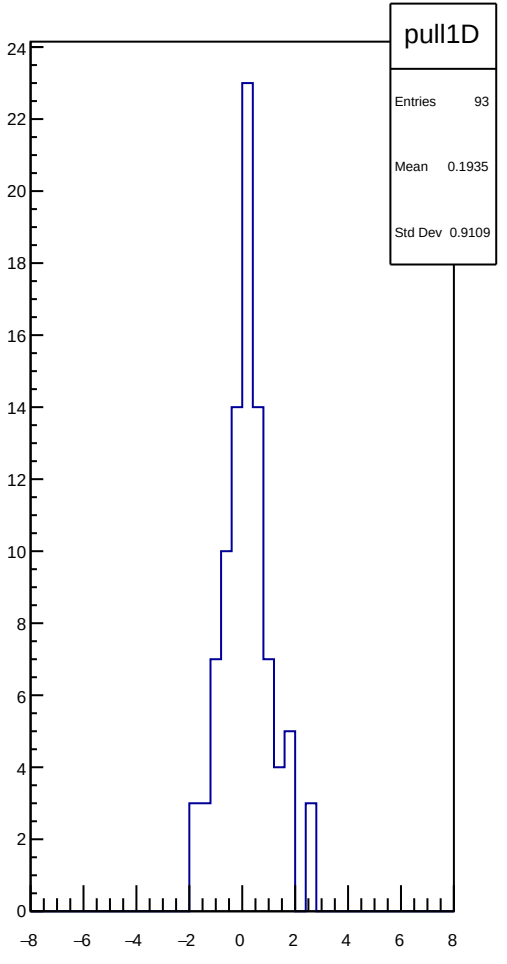

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.326e+04 / 92
p0 672.4 ± 0.5072
900
850
800
750
700
650
600
550

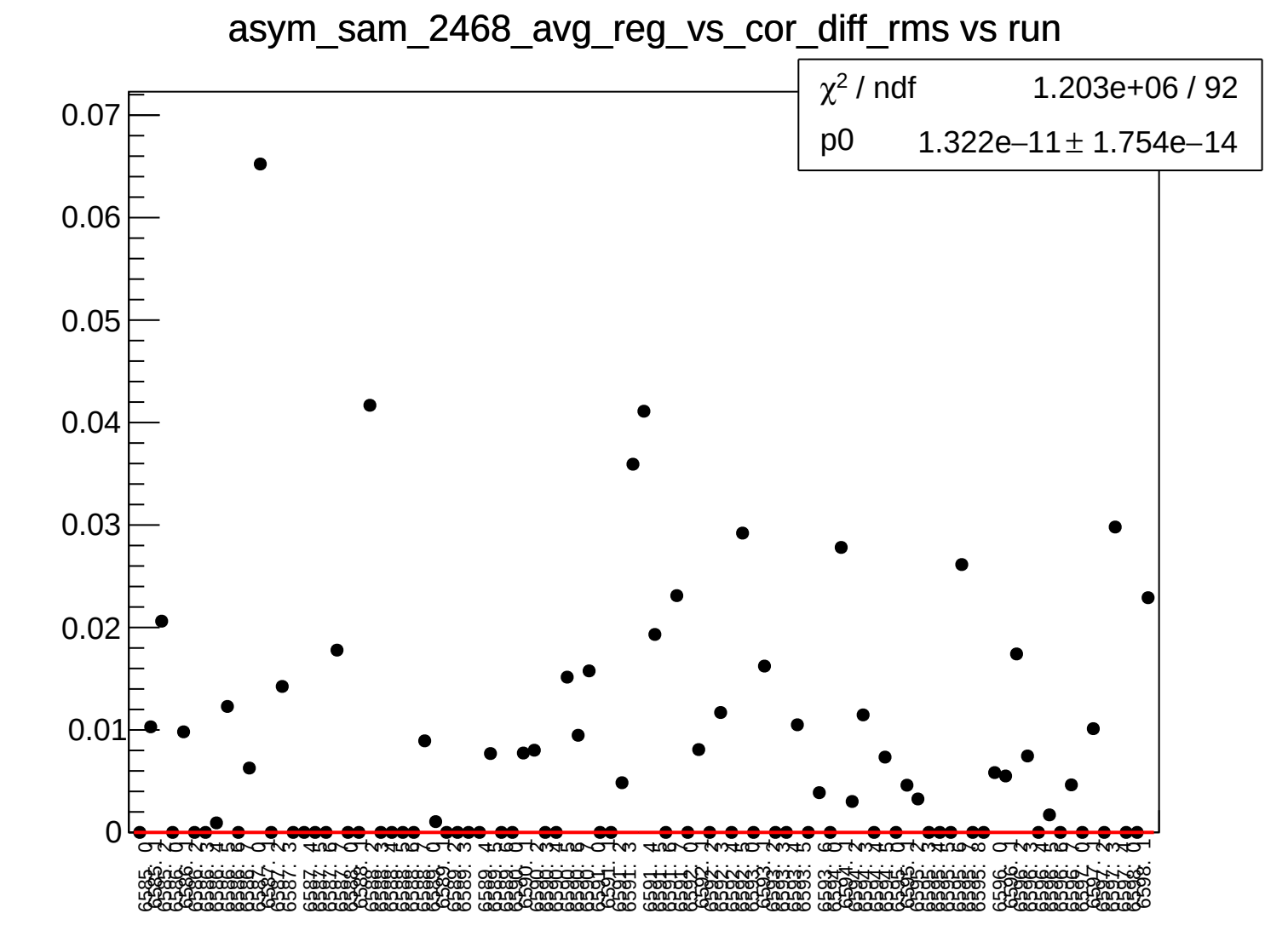

asym_sam_2468_avg_mean vs run
χ² / ndf 117.7 / 92
p0 −90.42 ± 718.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −62.59
Std Dev 0
2
1
0
−1
−2

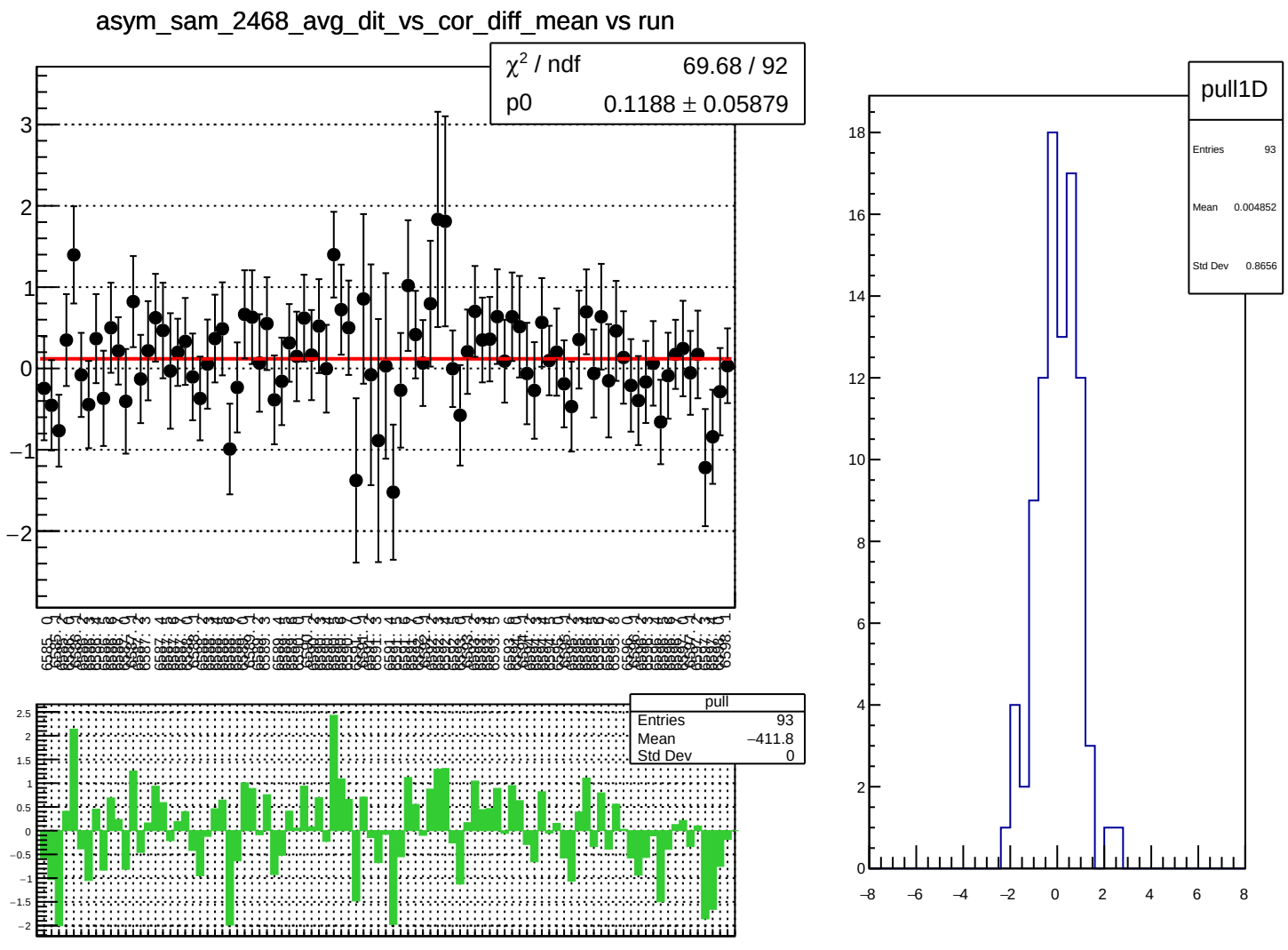

pull1D
Entries 93
Mean 0.004494
Std Dev 1.125
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

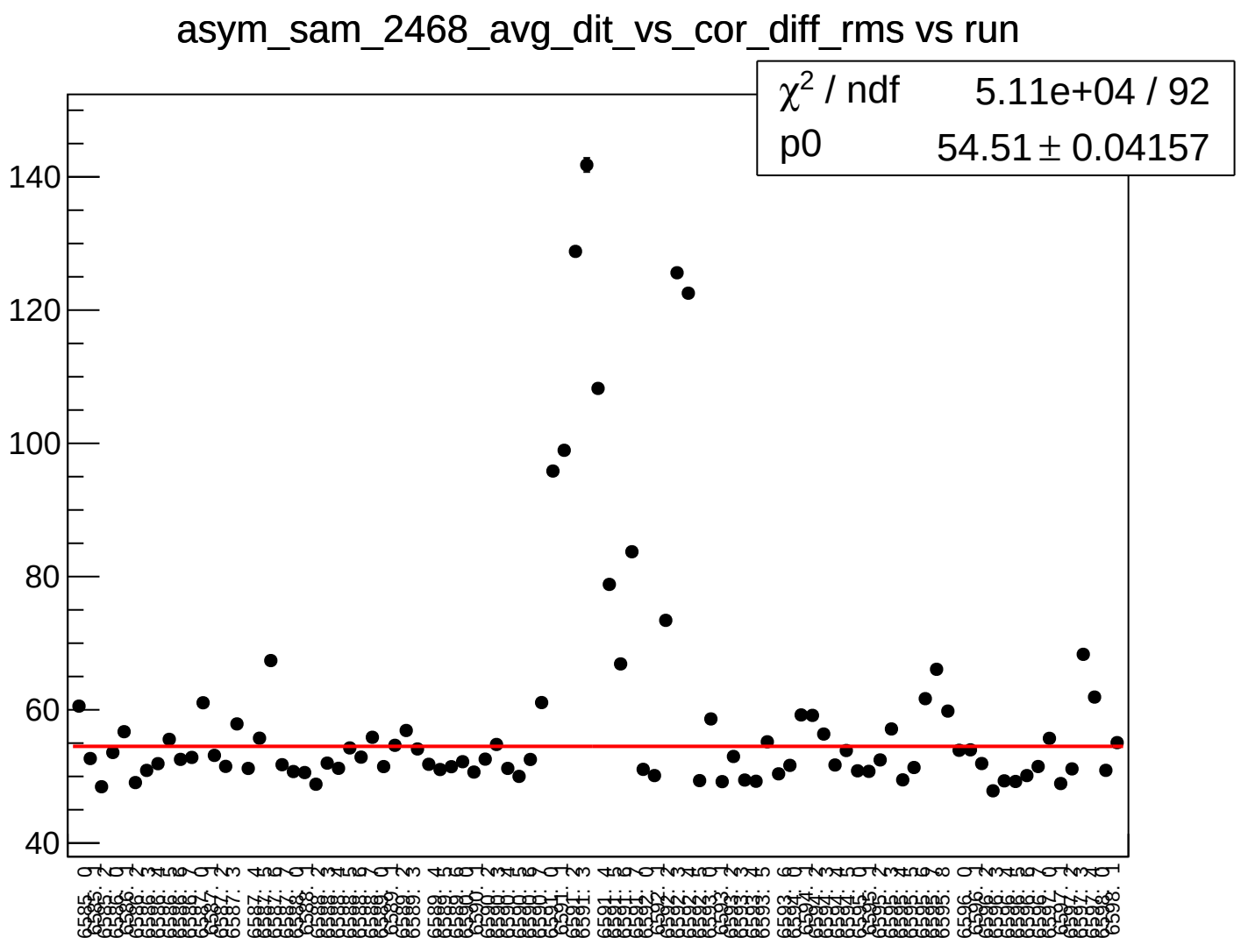

asym_sam_2468_avg_rms vs run
χ² / ndf 1.785e+04 / 92
p0 672.4 ± 0.5079
950
900
850
800
750
700
650
600
550

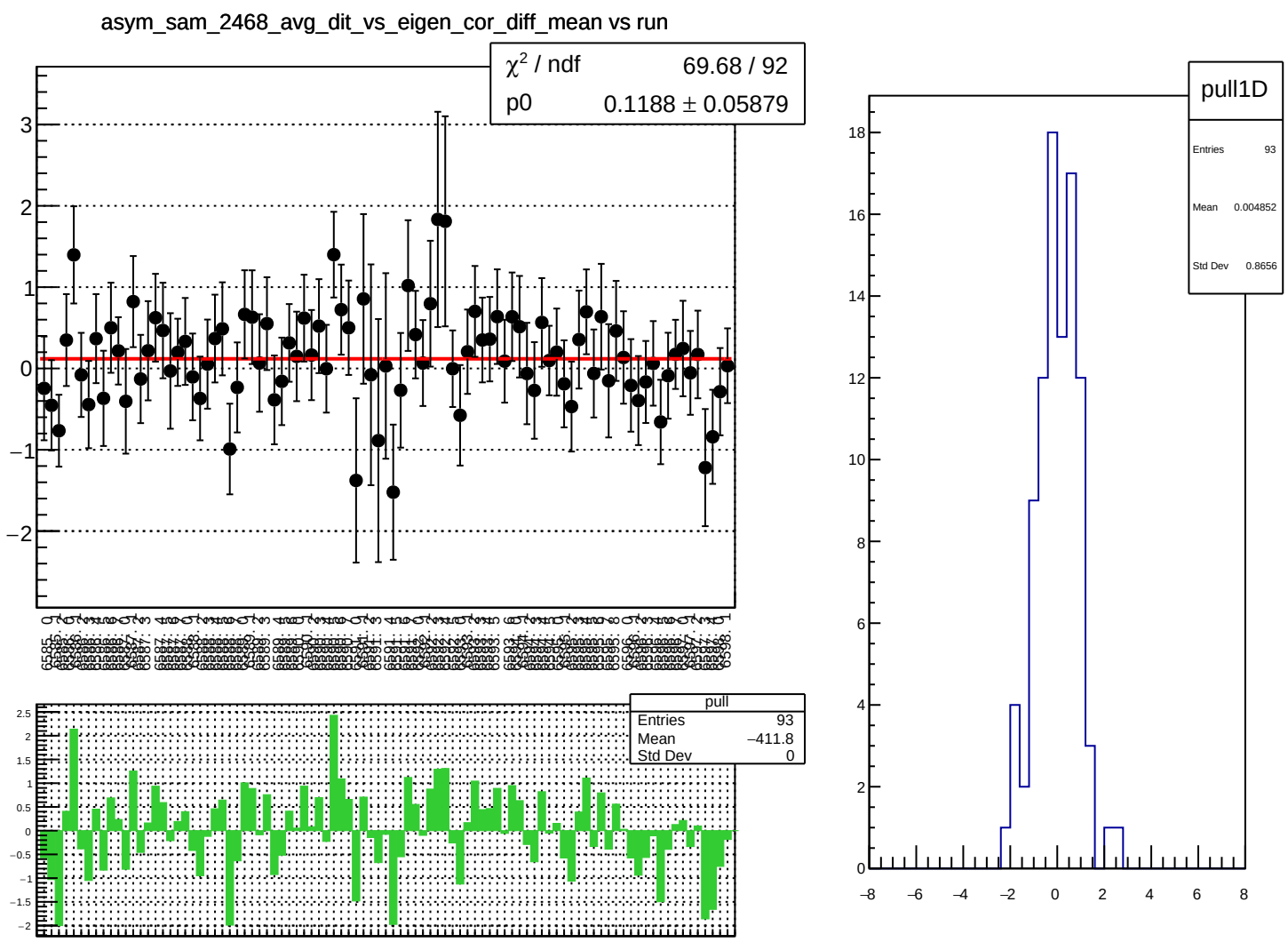

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.65 / 92
p0 −2.418e−14 ± 2.481e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 93
Mean 38.53
Std Dev 20.43
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

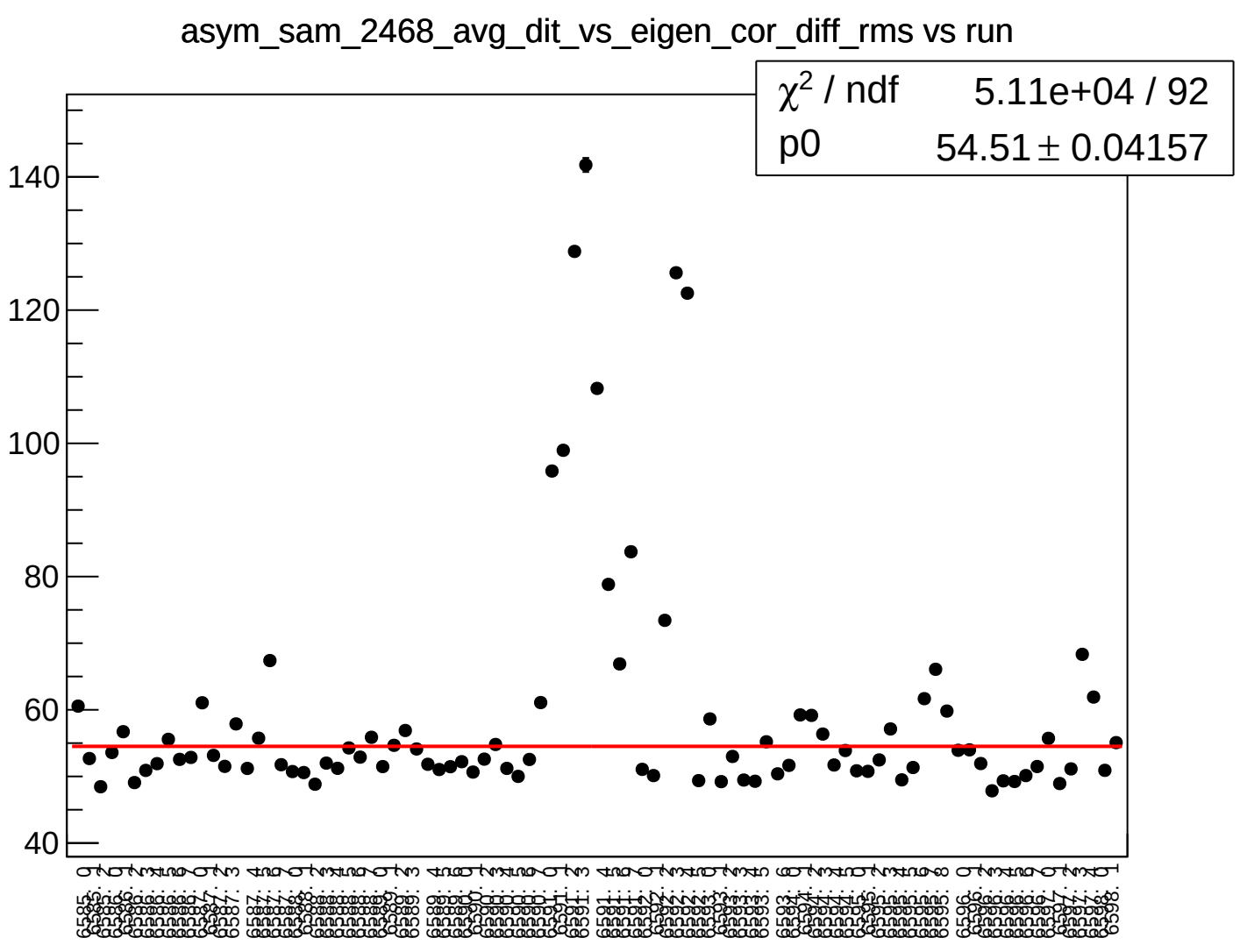

pull1D
Entries 93
Mean 0.1935
Std Dev 0.9109
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

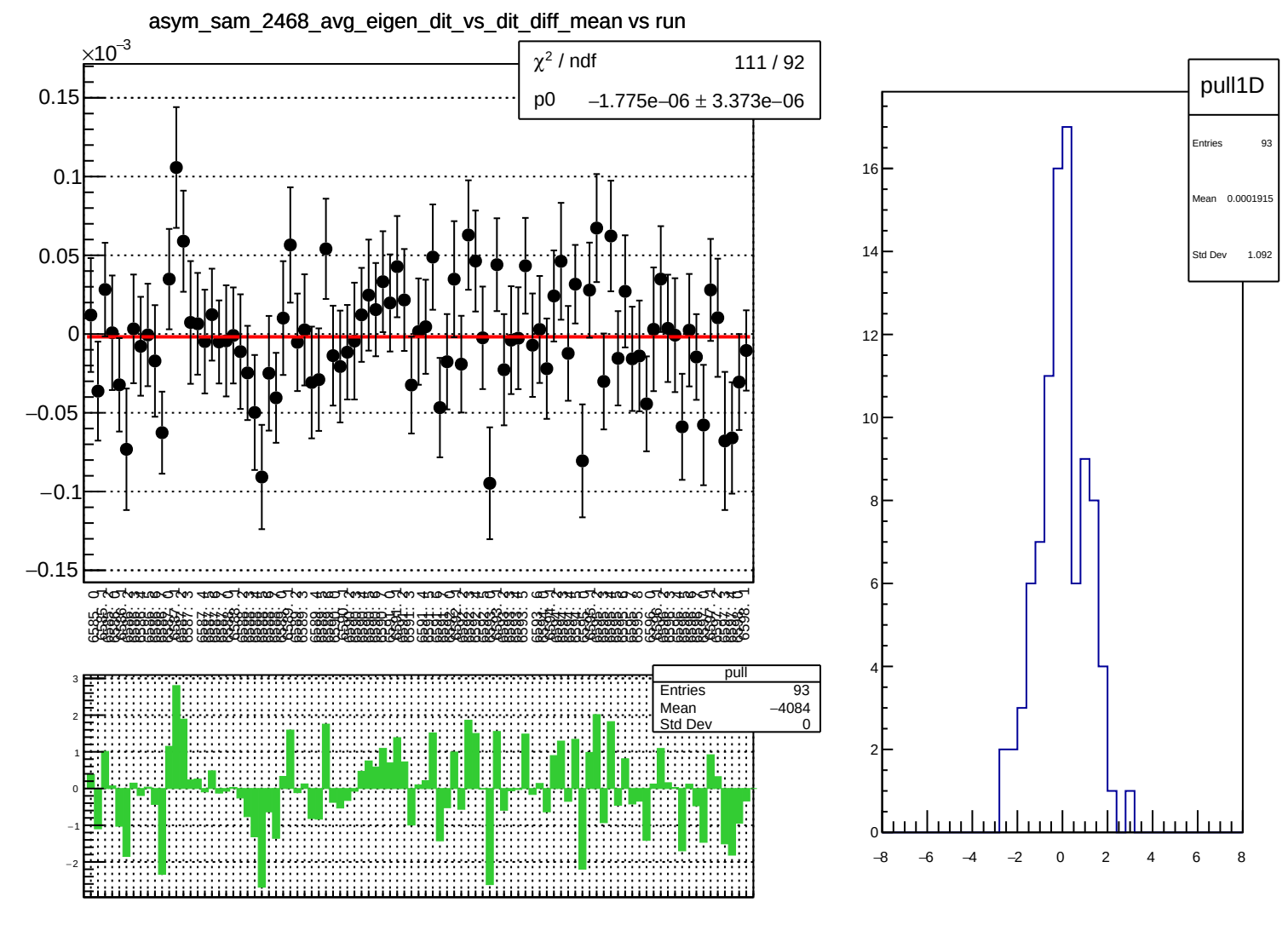

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.203e+06 / 92
p0 1.322e−11 ± 1.754e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

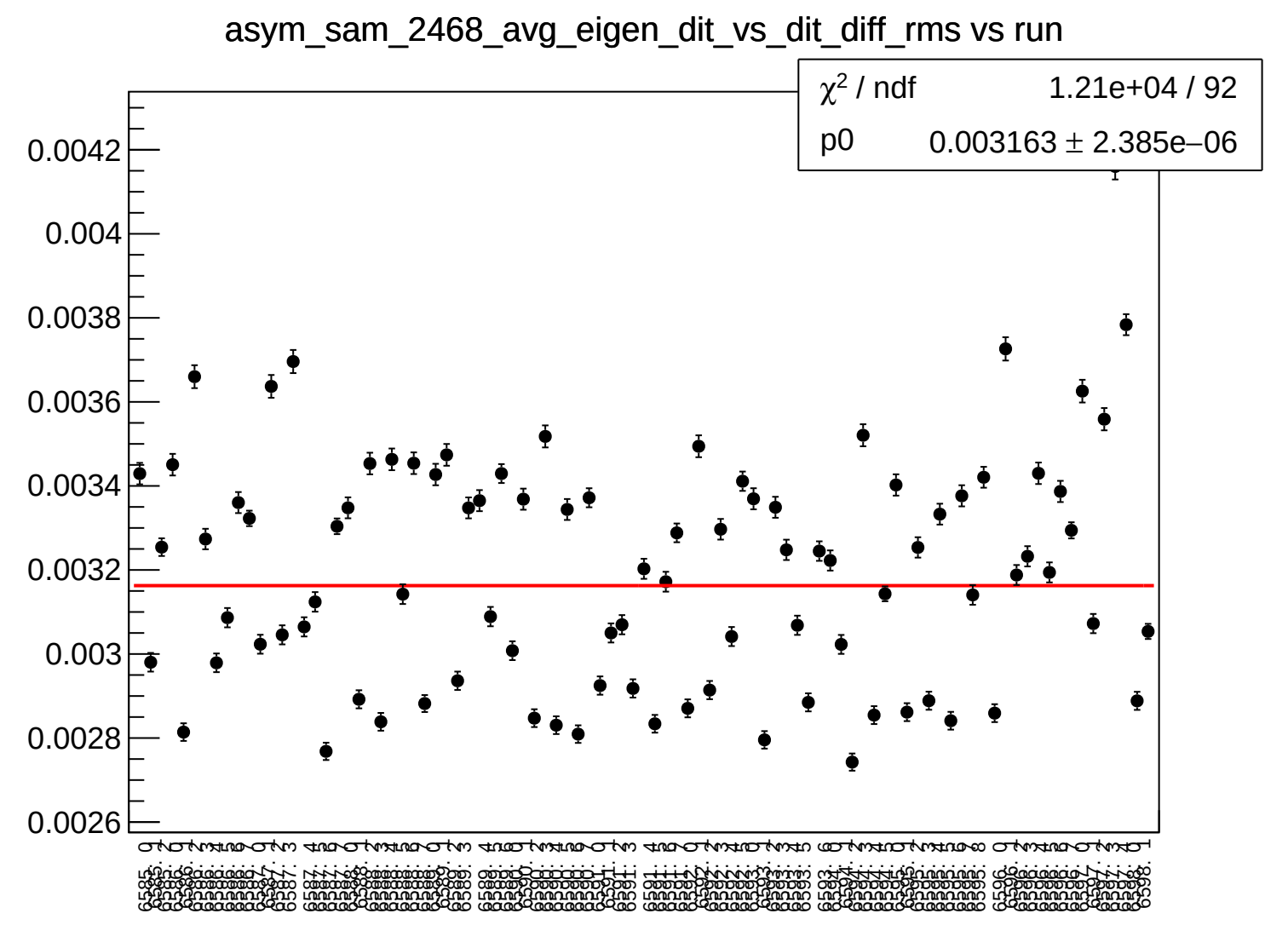

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.68 / 92
p0 0.1188 ± 0.05879
pull
Entries 93
Mean −411.8
Std Dev 0
pull1D
Entries 93
Mean 0.004852
Std Dev 0.8656

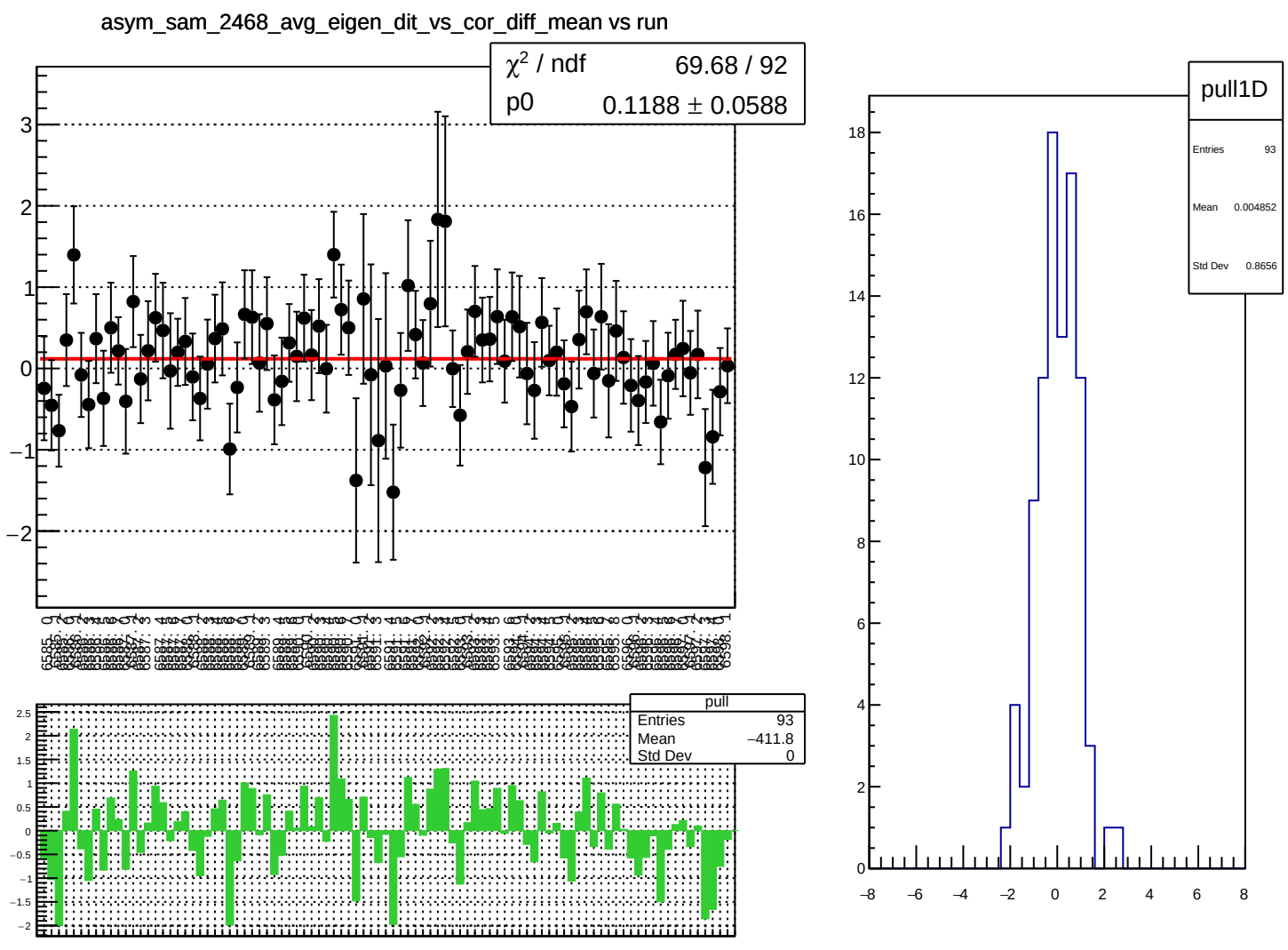

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.11e+04 / 92
p0 54.51 ± 0.04157
140
120
100
80
60
40

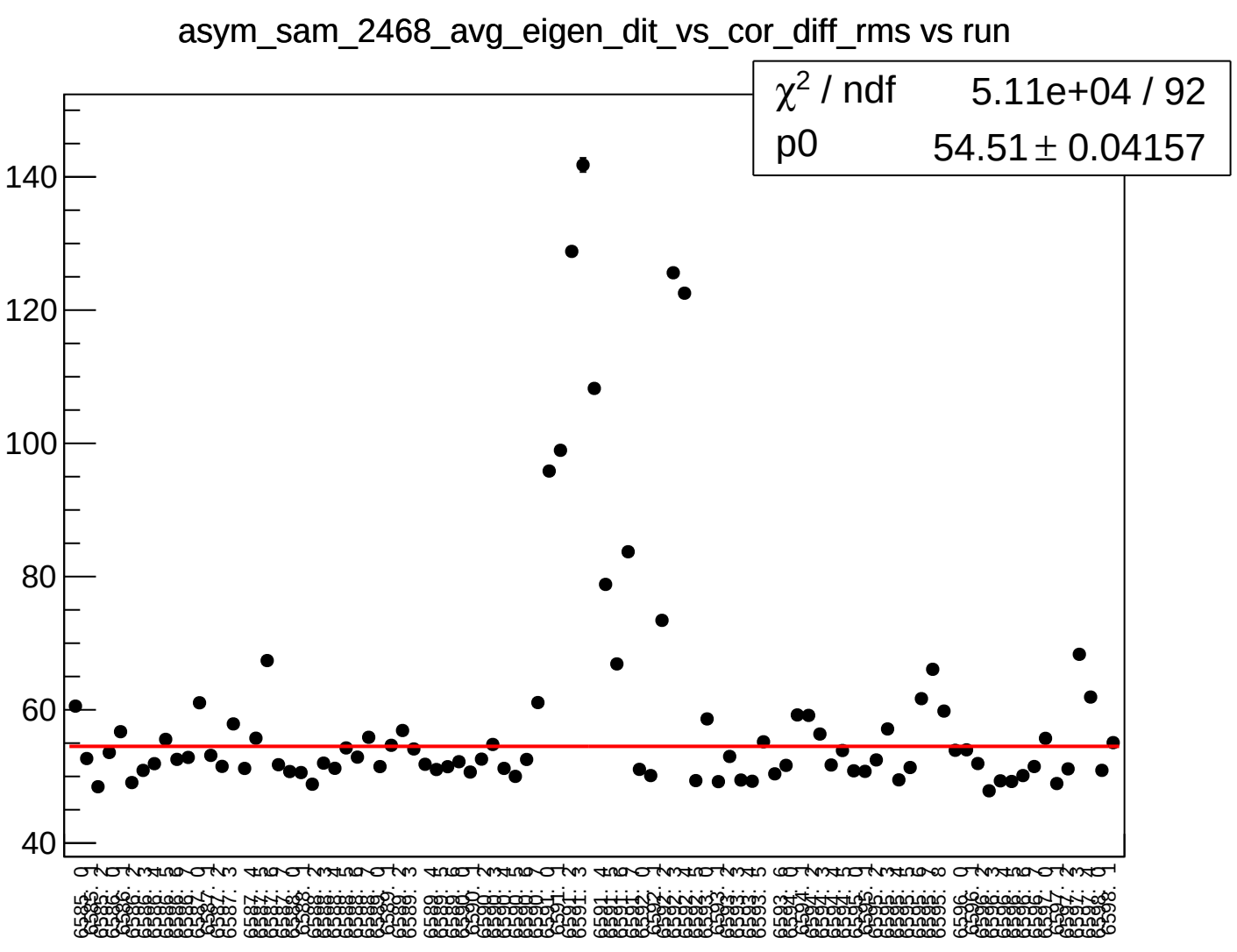

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.68 / 92
p0 0.1188 ± 0.05879
pull
Entries 93
Mean −411.8
Std Dev 0
pull1D
Entries 93
Mean 0.004852
Std Dev 0.8656

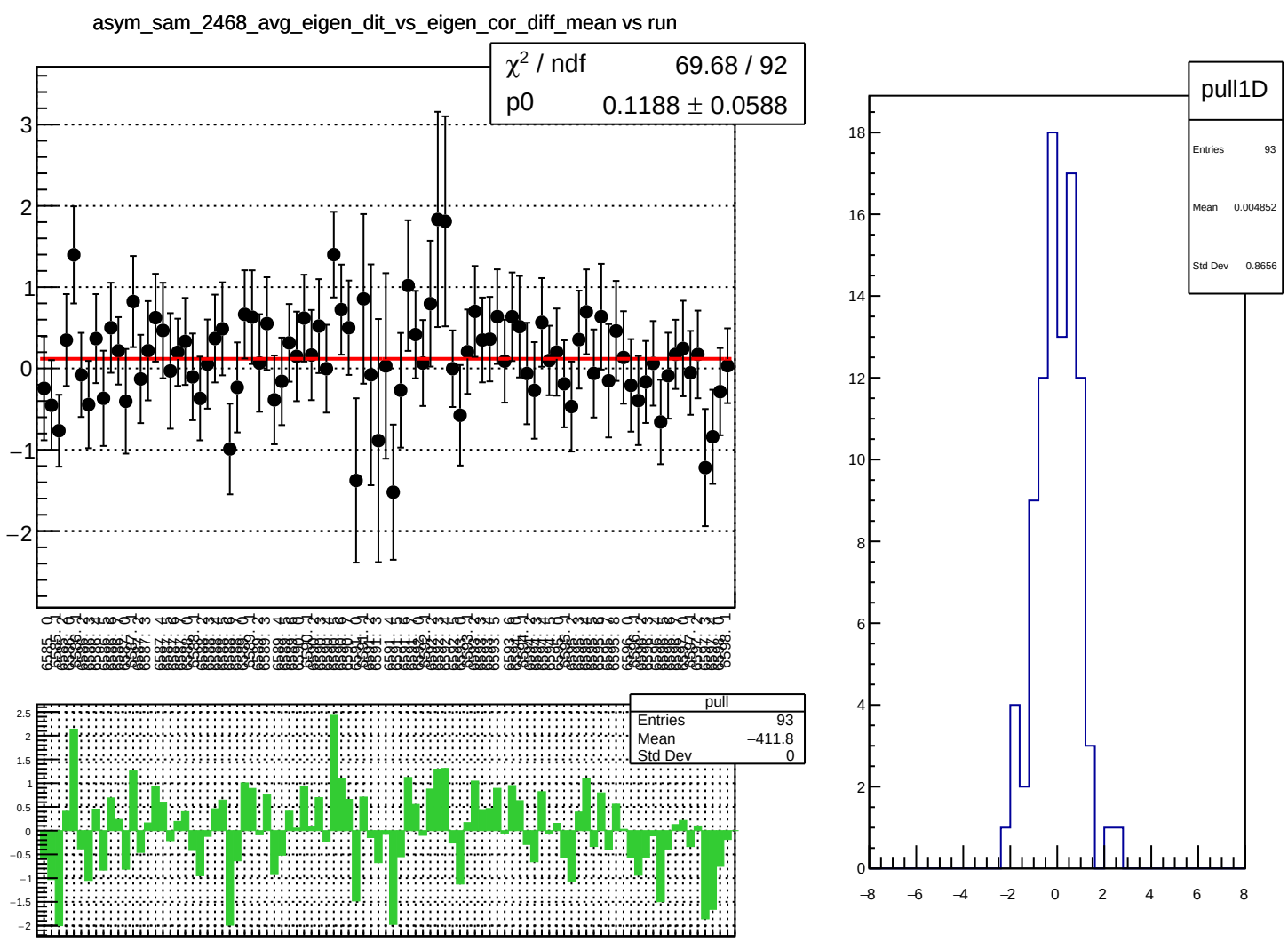

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.11e+04 / 92
p0 54.51 ± 0.04157
140
120
100
80
60
40

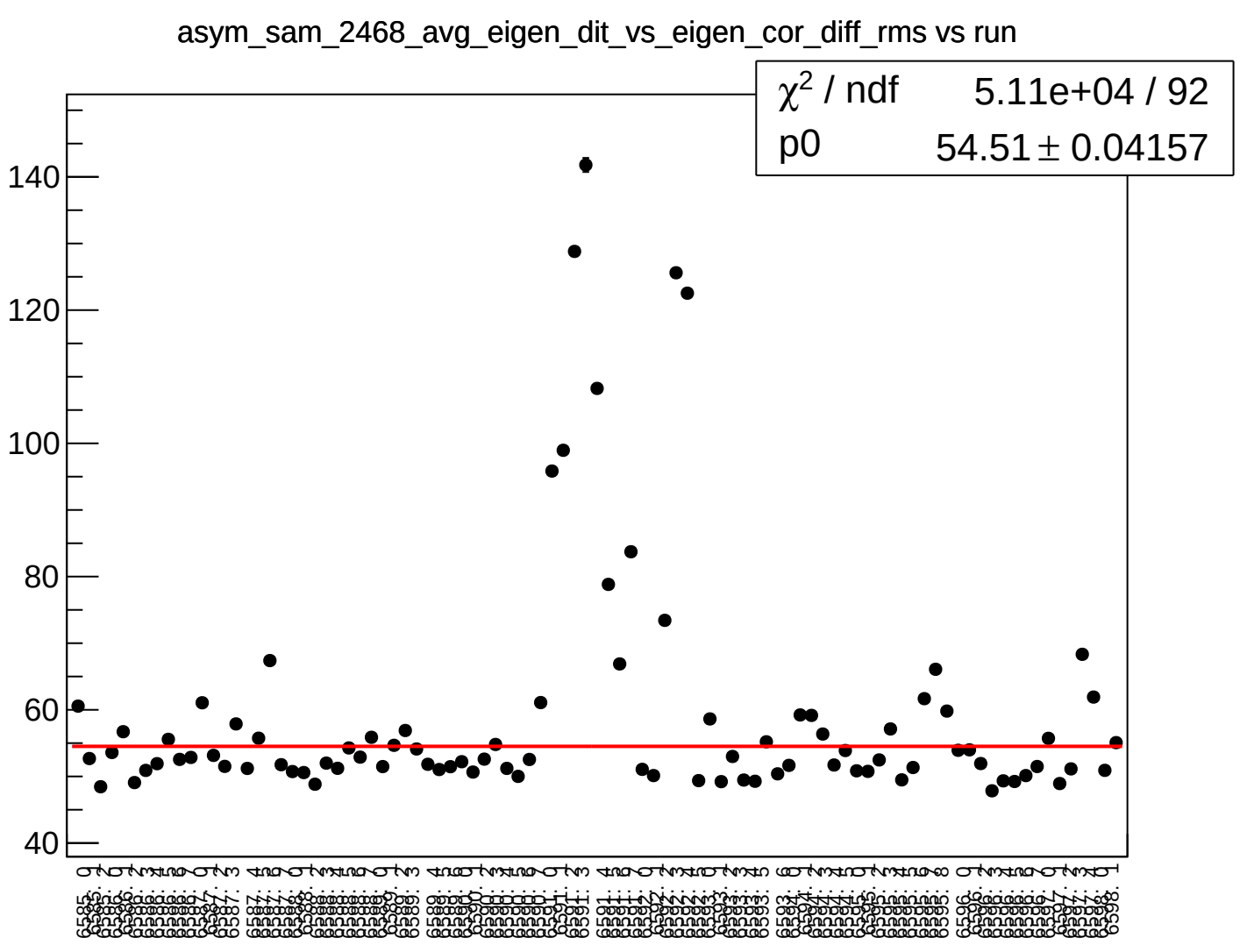

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111 / 92
p0 −1.775e−06 ± 3.373e−06
pull
Entries 93
Mean −4084
Std Dev 0
pull1D
Entries 93
Mean 0.0001915
Std Dev 1.092

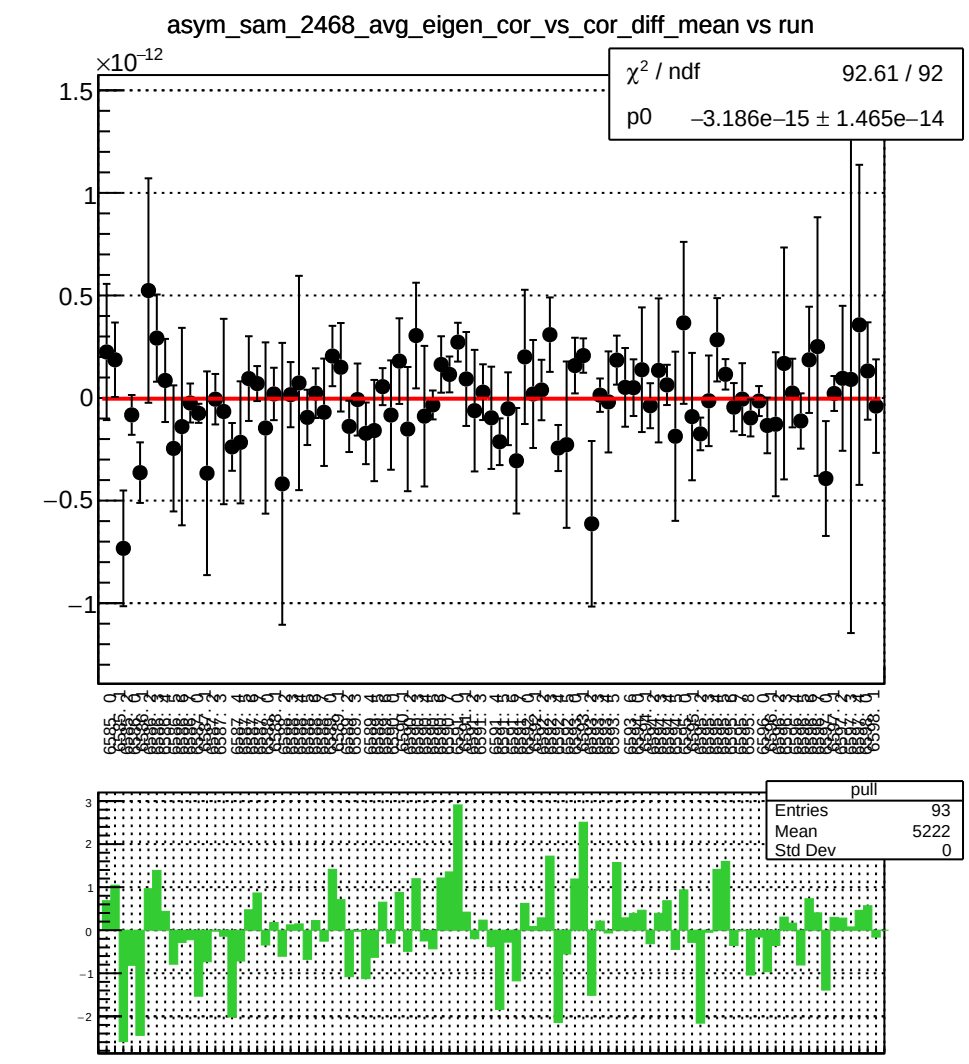

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.21e+04 / 92
p0 0.003163 ± 2.385e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

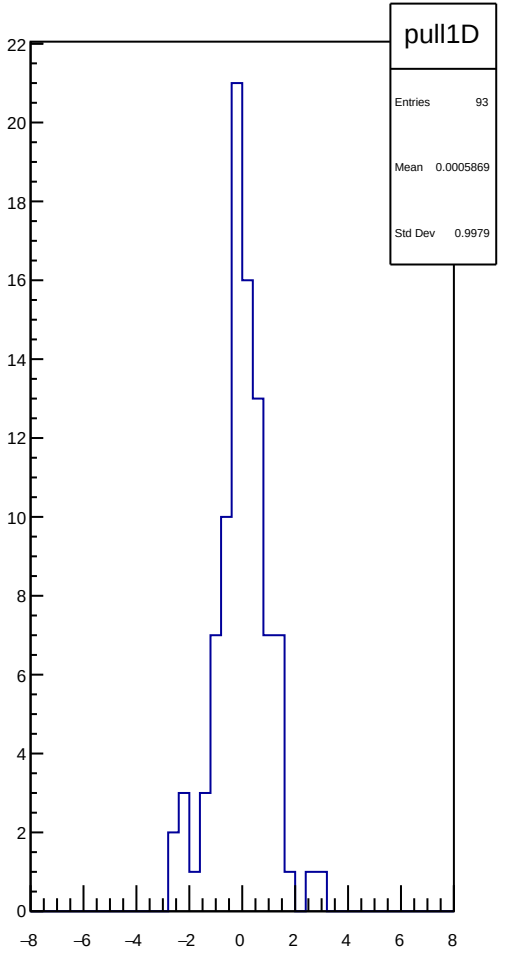

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.68 / 92
p0 0.1188 ± 0.0588
pull
Entries 93
Mean −411.8
Std Dev 0
pull1D
Entries 93
Mean 0.004852
Std Dev 0.8656

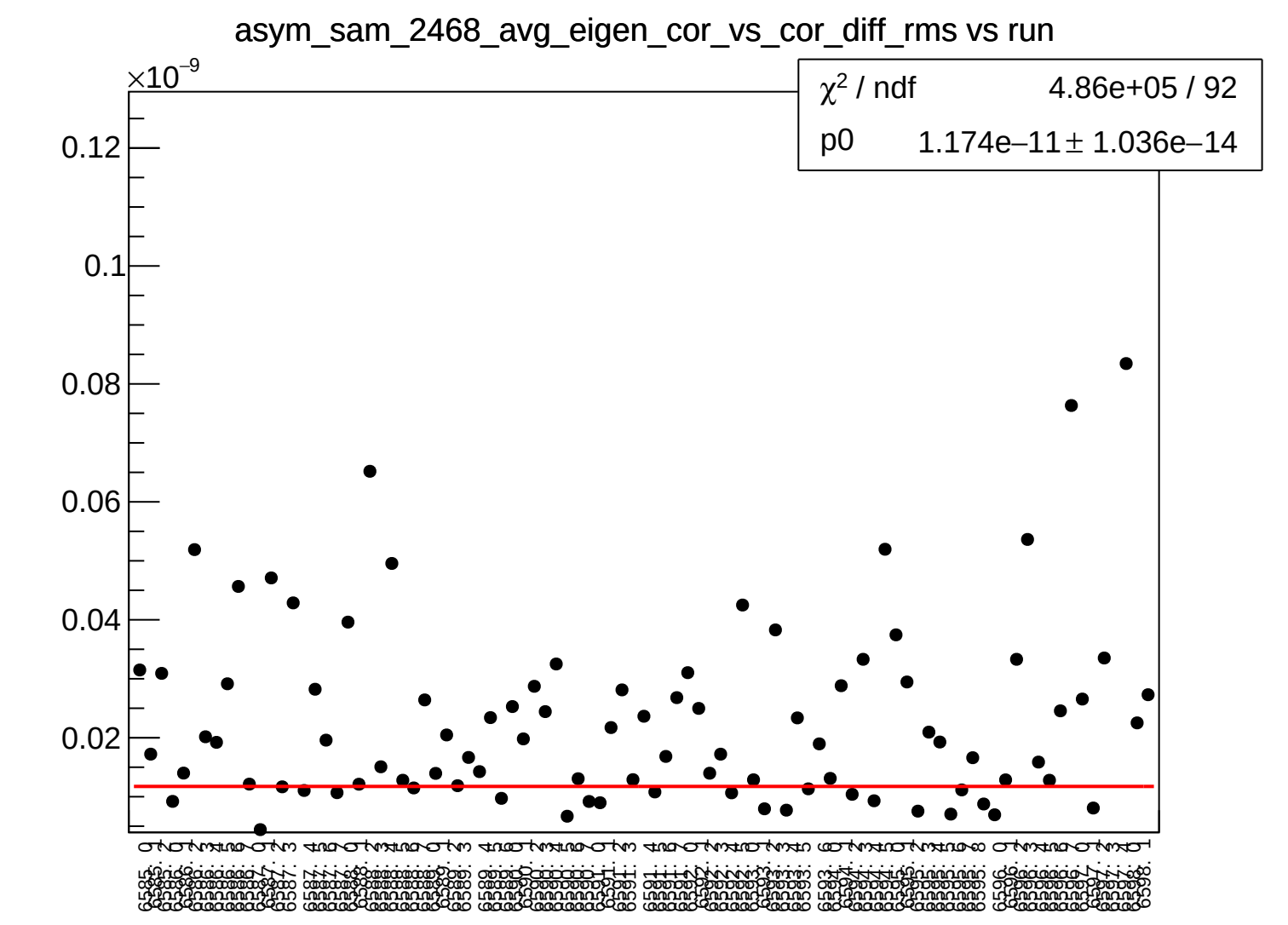

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.11e+04 / 92
p0 54.51 ± 0.04157
140
120
100
80
60
40

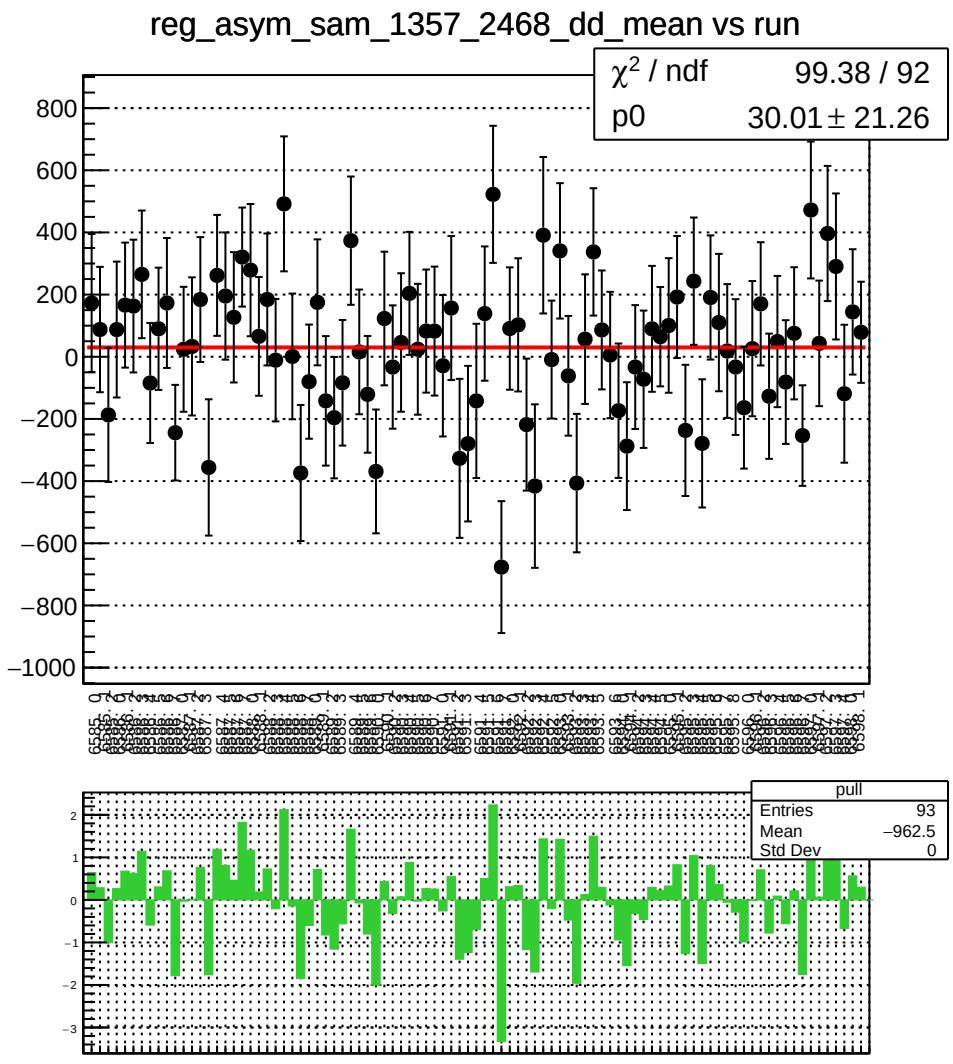

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.68 / 92
p0 0.1188 ± 0.0588
pull
Entries 93
Mean −411.8
Std Dev 0
pull1D
Entries 93
Mean 0.004852
Std Dev 0.8656

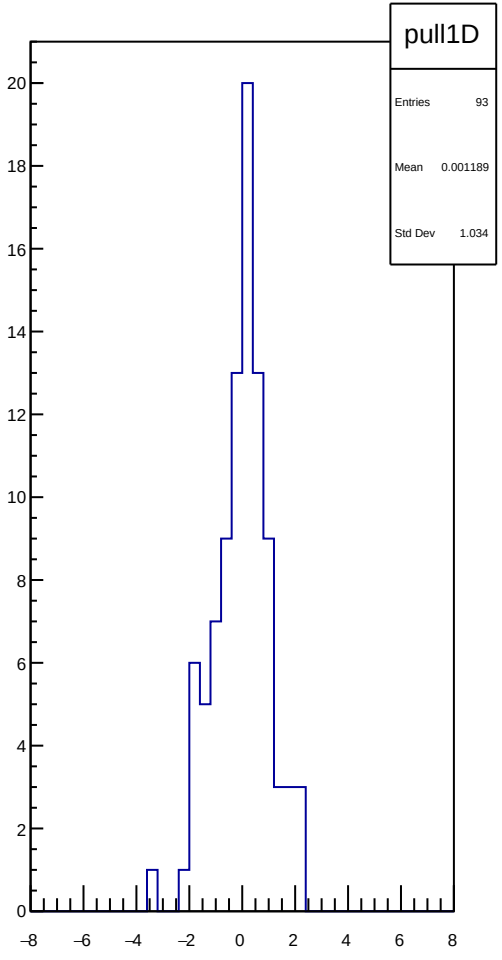

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.11e+04 / 92
p0 54.51 ± 0.04157
140
120
100
80
60
40

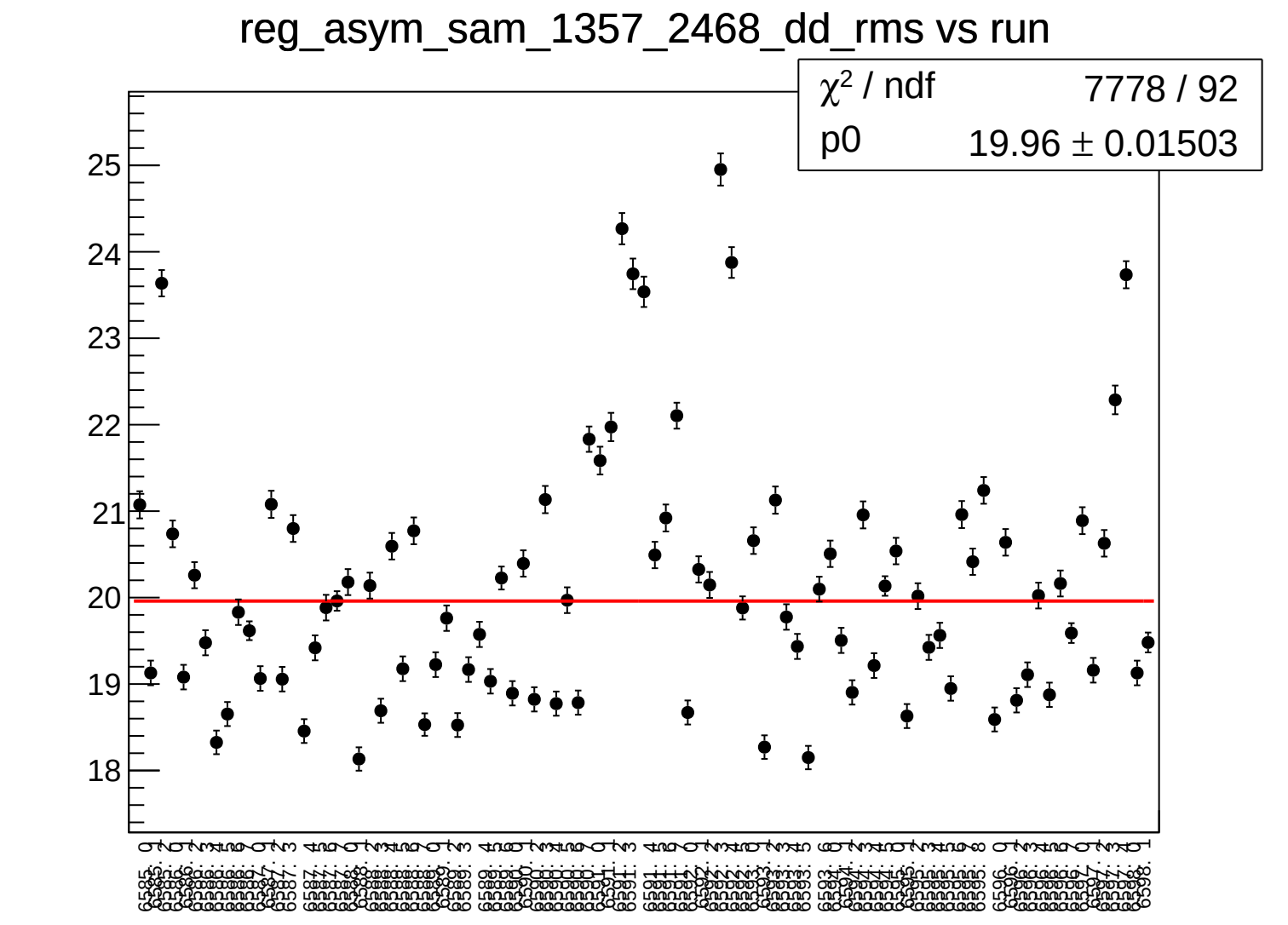

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 92.61 / 92
p0 −3.186e−15 ± 1.465e−14
pull
Entries 93
Mean 5222
Std Dev 0

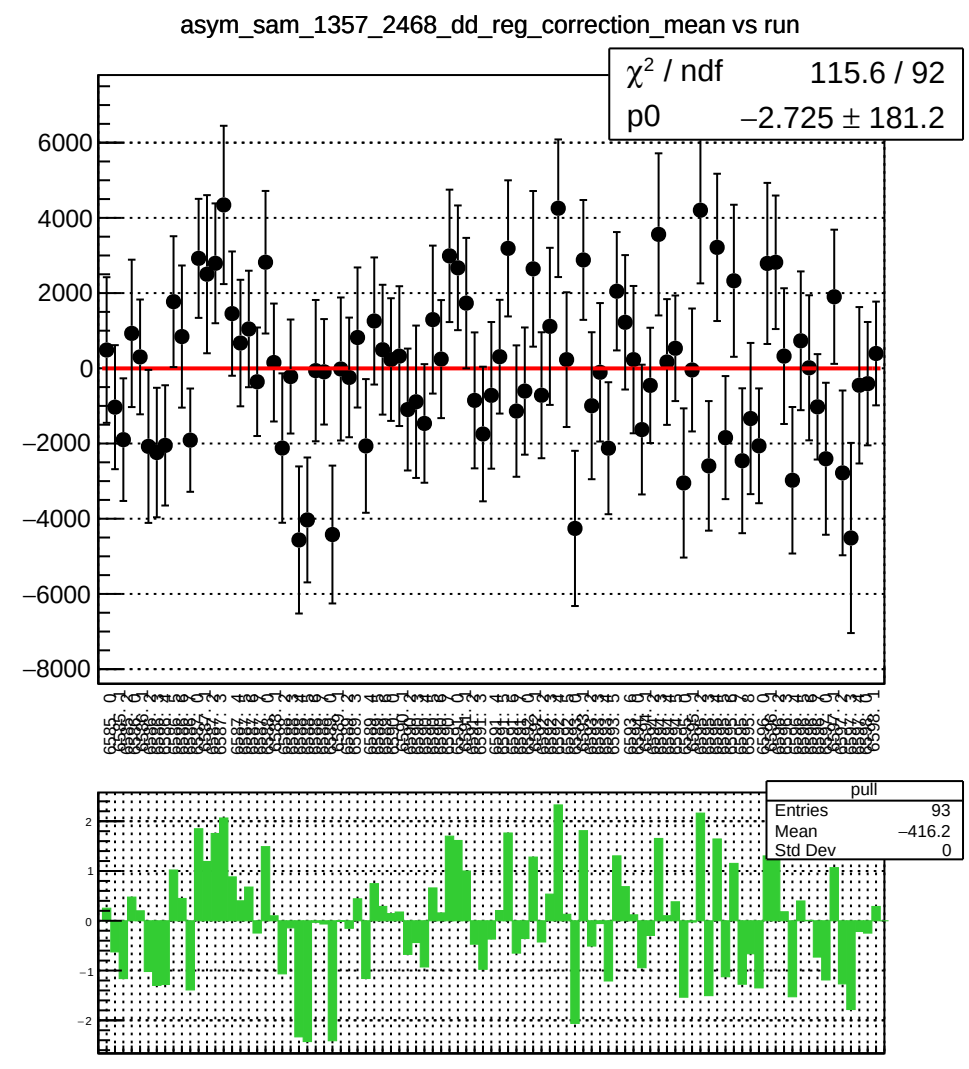

pull1D
Entries 93
Mean 0.0005869
Std Dev 0.9979

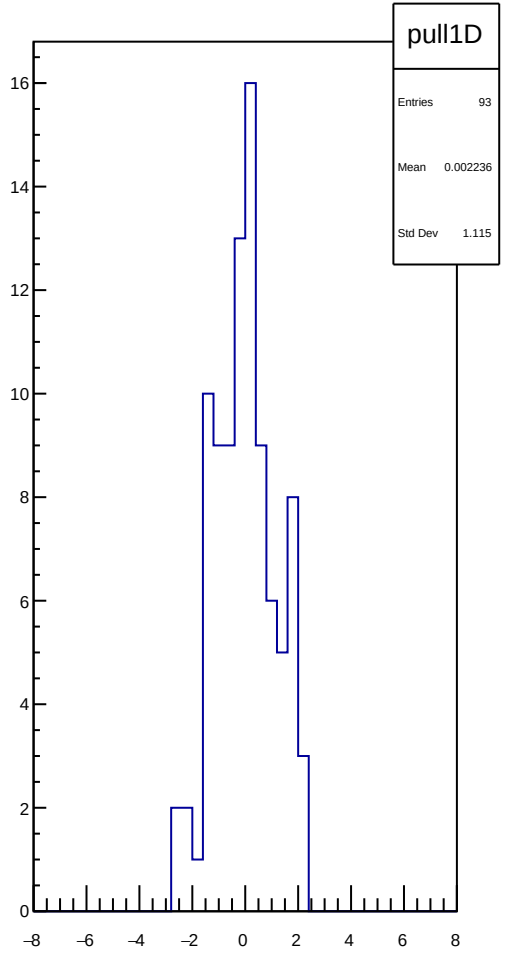

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.86e+05 / 92
p0 1.174e−11 ± 1.036e−14
0.12
0.1
0.08
0.06
0.04
0.02

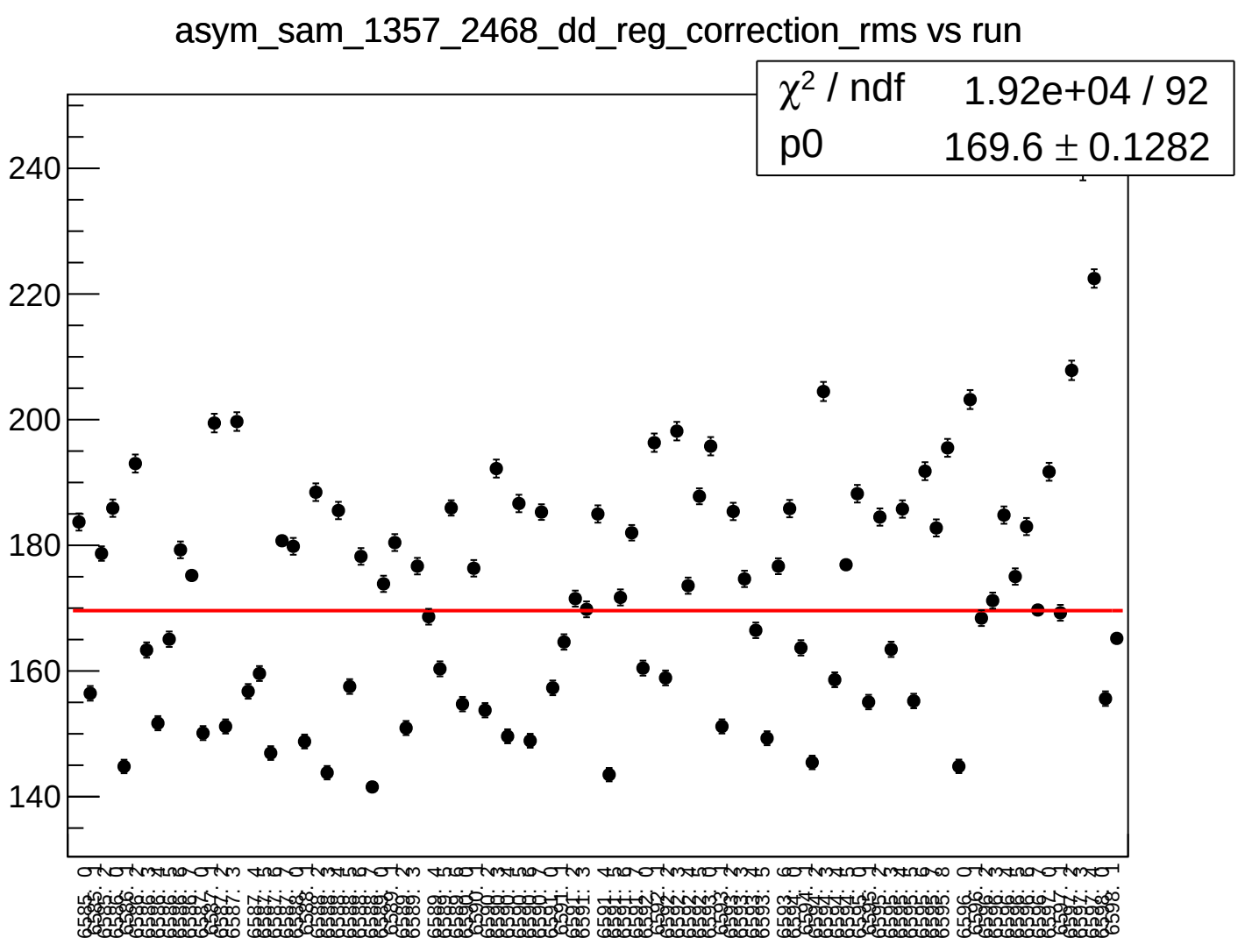

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 99.38 / 92
p0 30.01 ± 21.26
pull
Entries 93
Mean −962.5
Std Dev 0

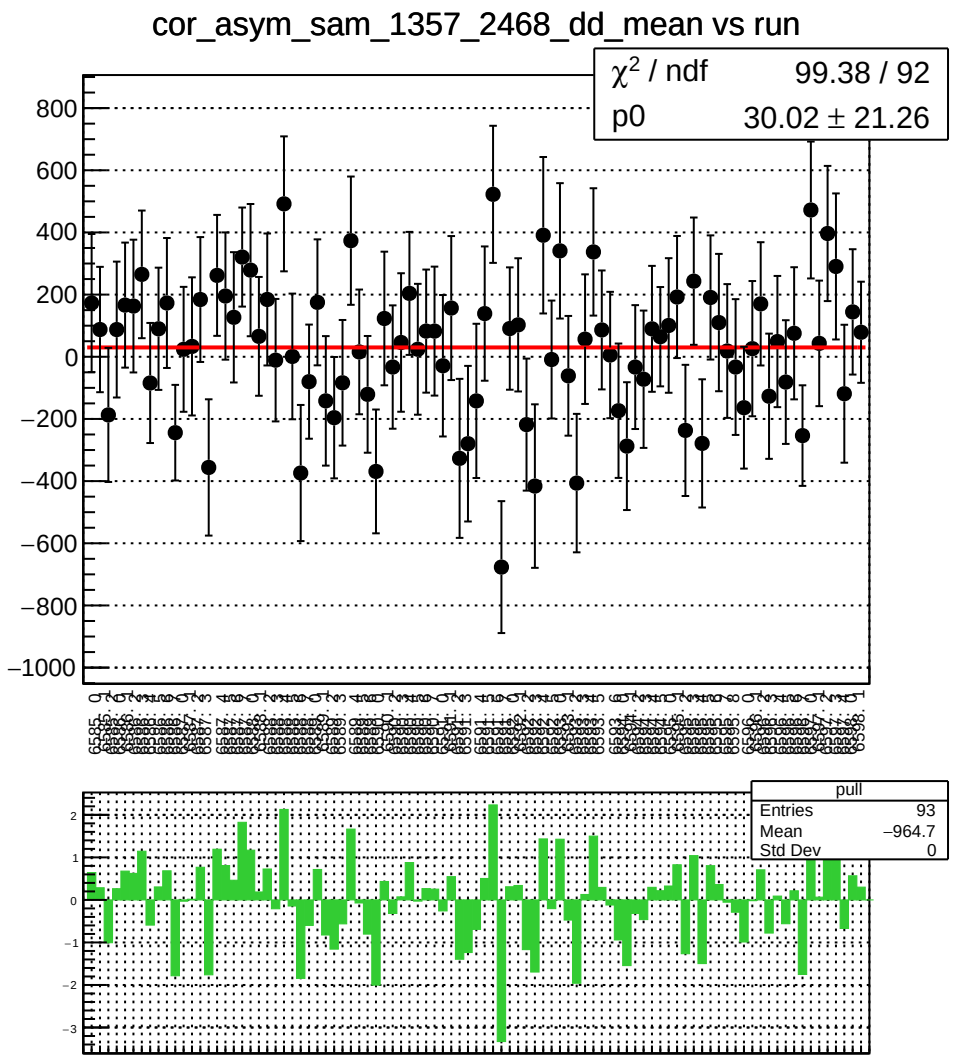

pull1D
Entries 93
Mean 0.001189
Std Dev 1.034

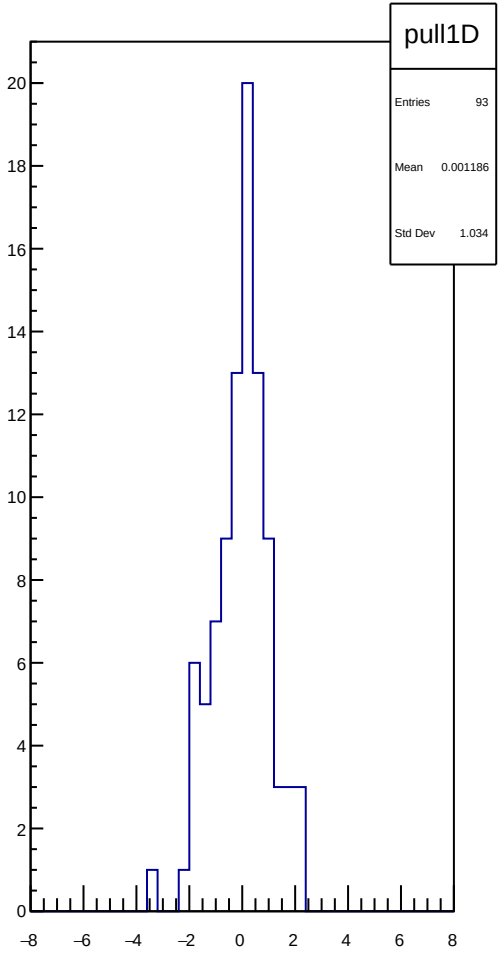

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7778 / 92
p0 19.96 ± 0.01503
25
24
23
22
21
20
19
18

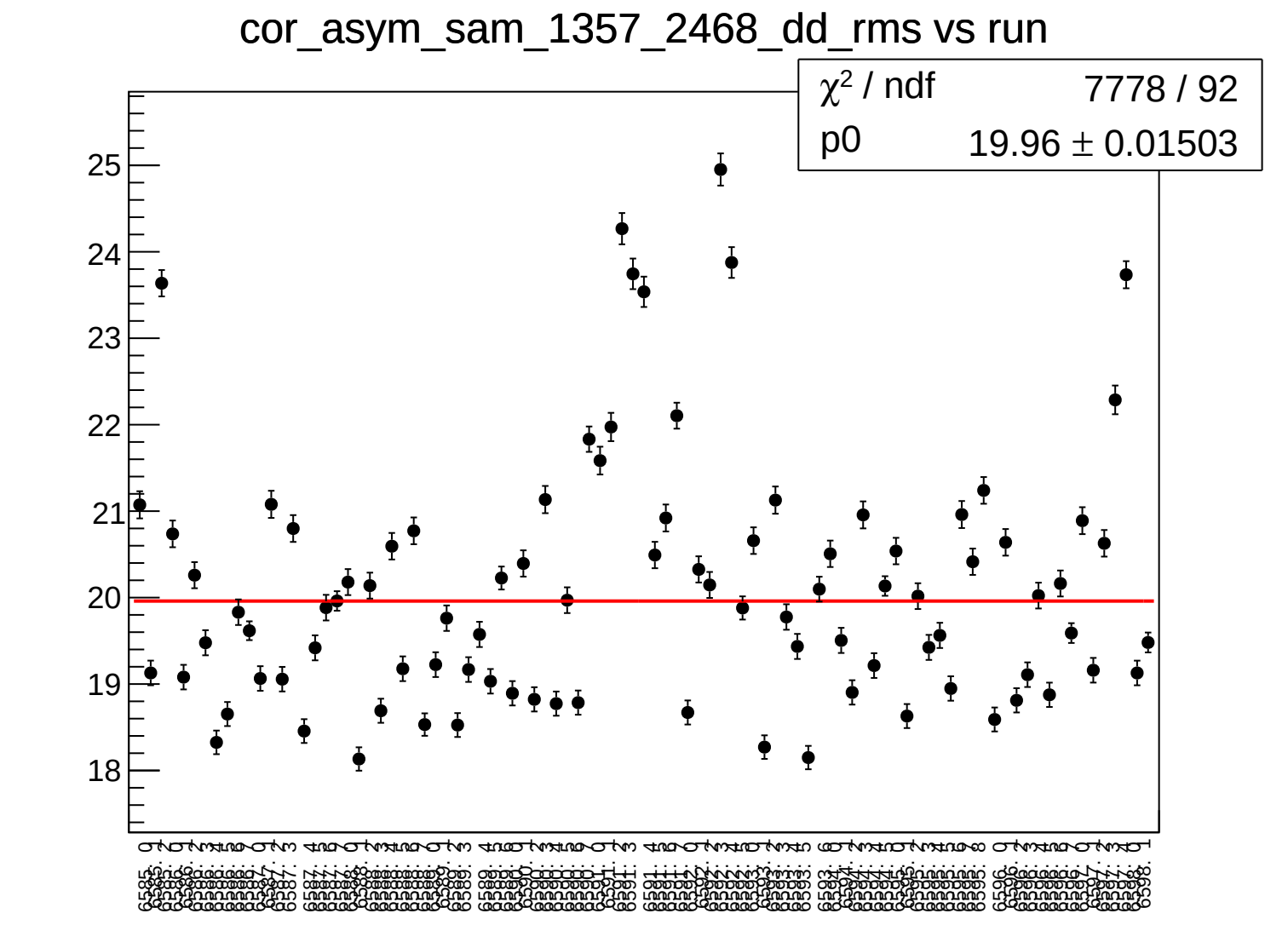

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 115.6 / 92
p0 −2.725 ± 181.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −416.2
Std Dev 0
2
1
0
−1
−2

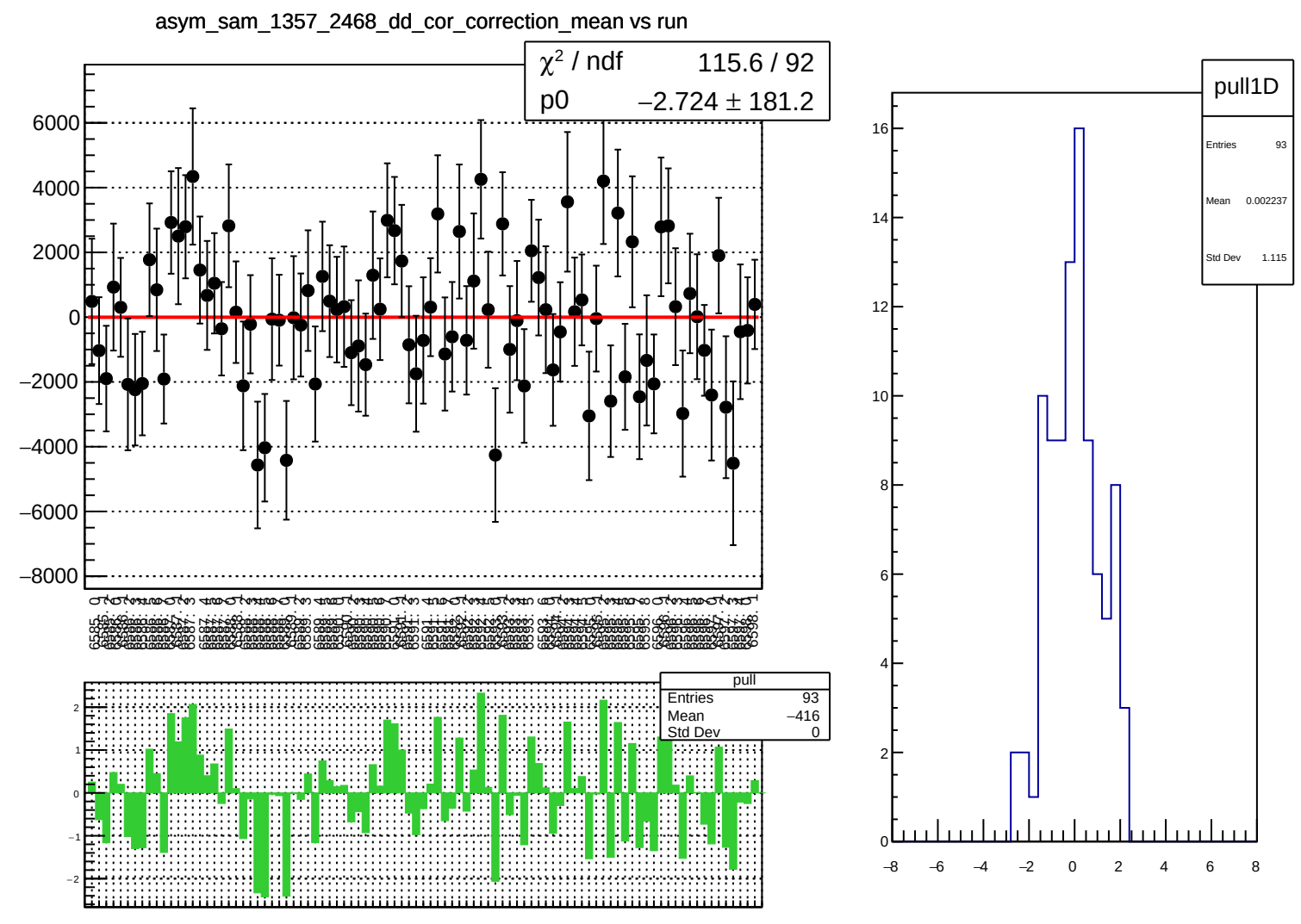

pull1D
Entries 93
Mean 0.002236
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

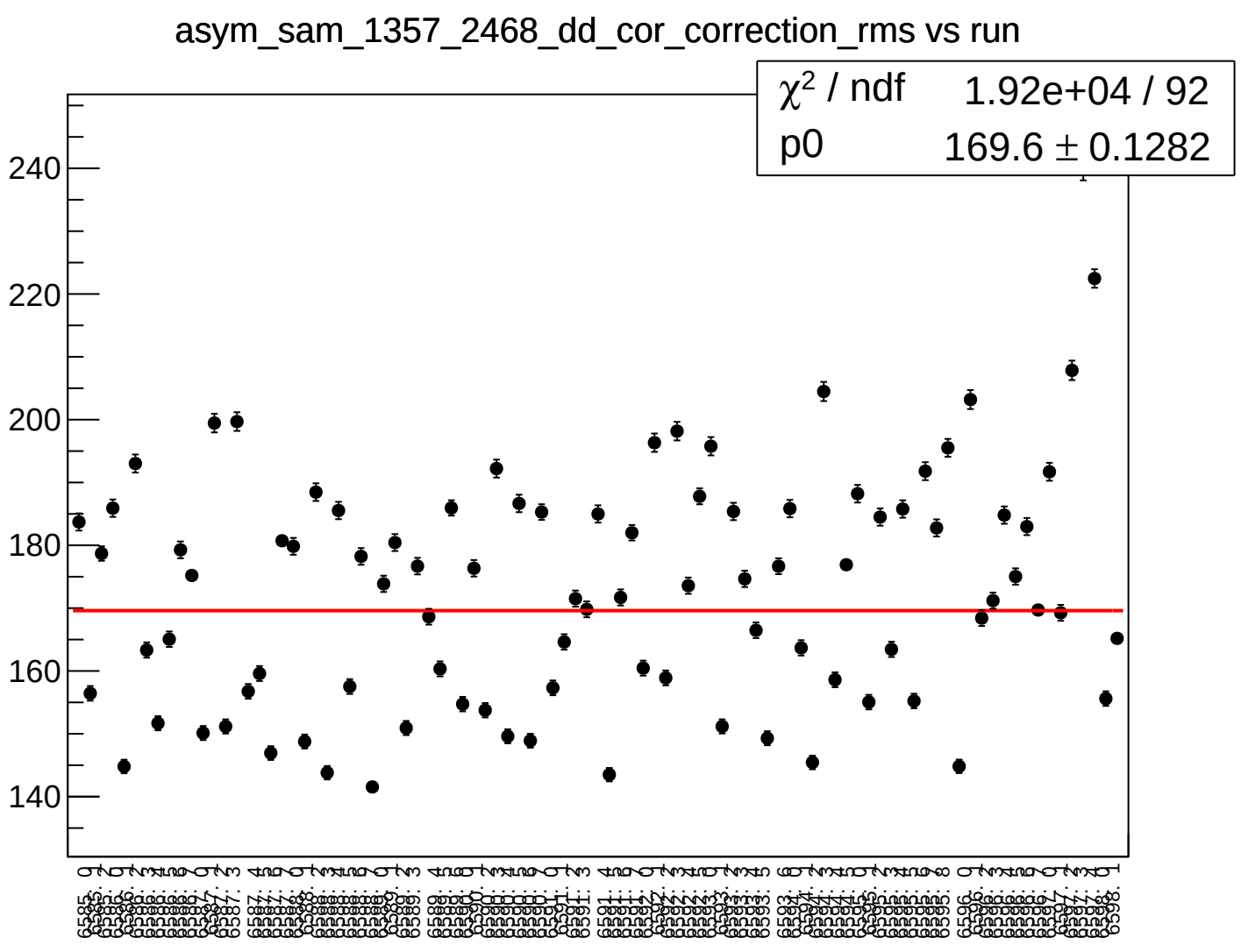

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.92e+04 / 92
p0 169.6 ± 0.1282
240
220
200
180
160
140

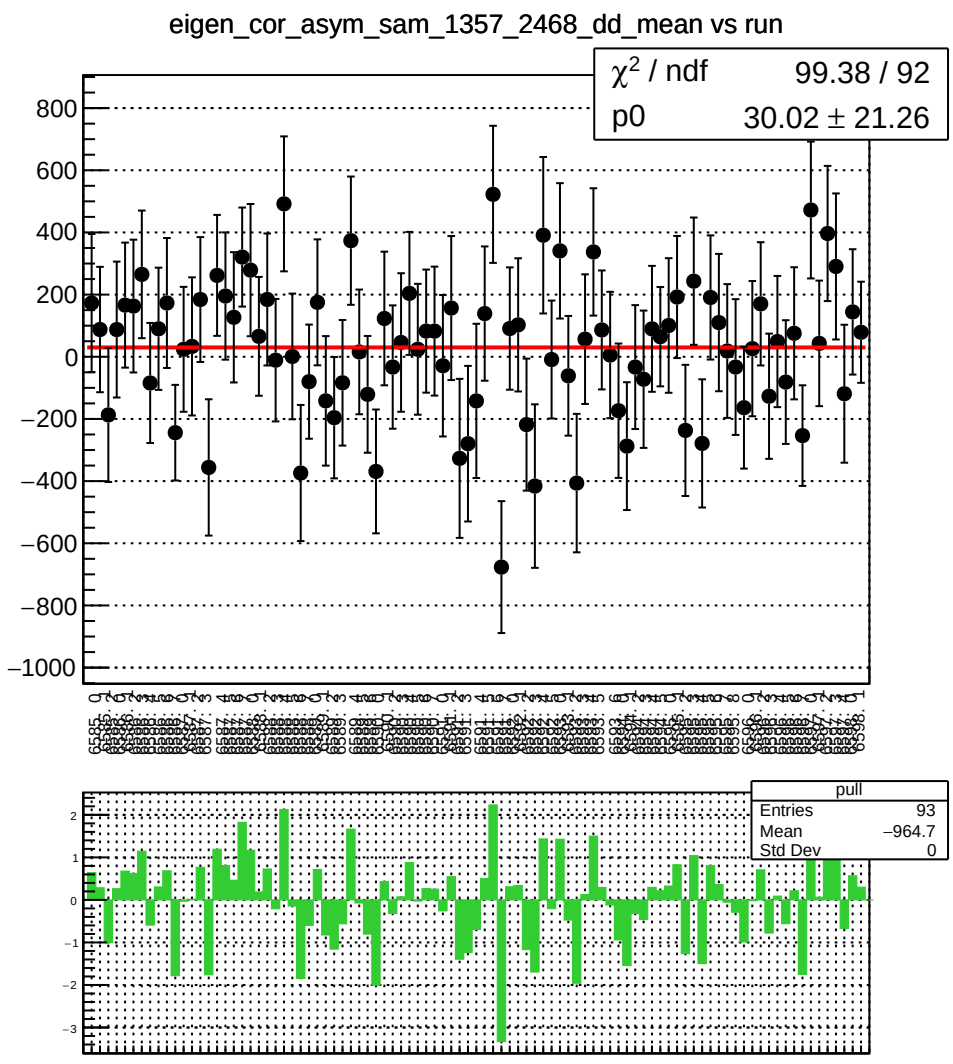

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 99.38 / 92
p0 30.02 ± 21.26
pull
Entries 93
Mean −964.7
Std Dev 0

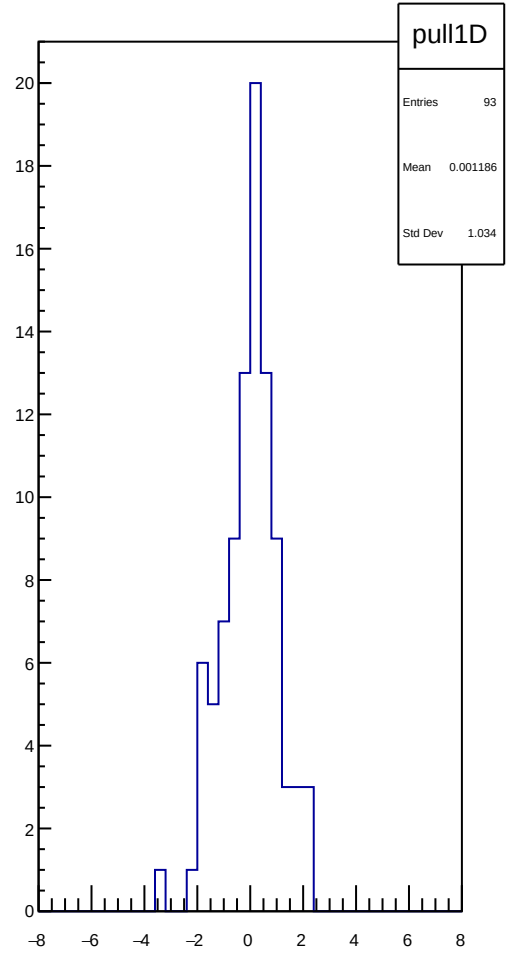

pull1D
Entries 93
Mean 0.001186
Std Dev 1.034

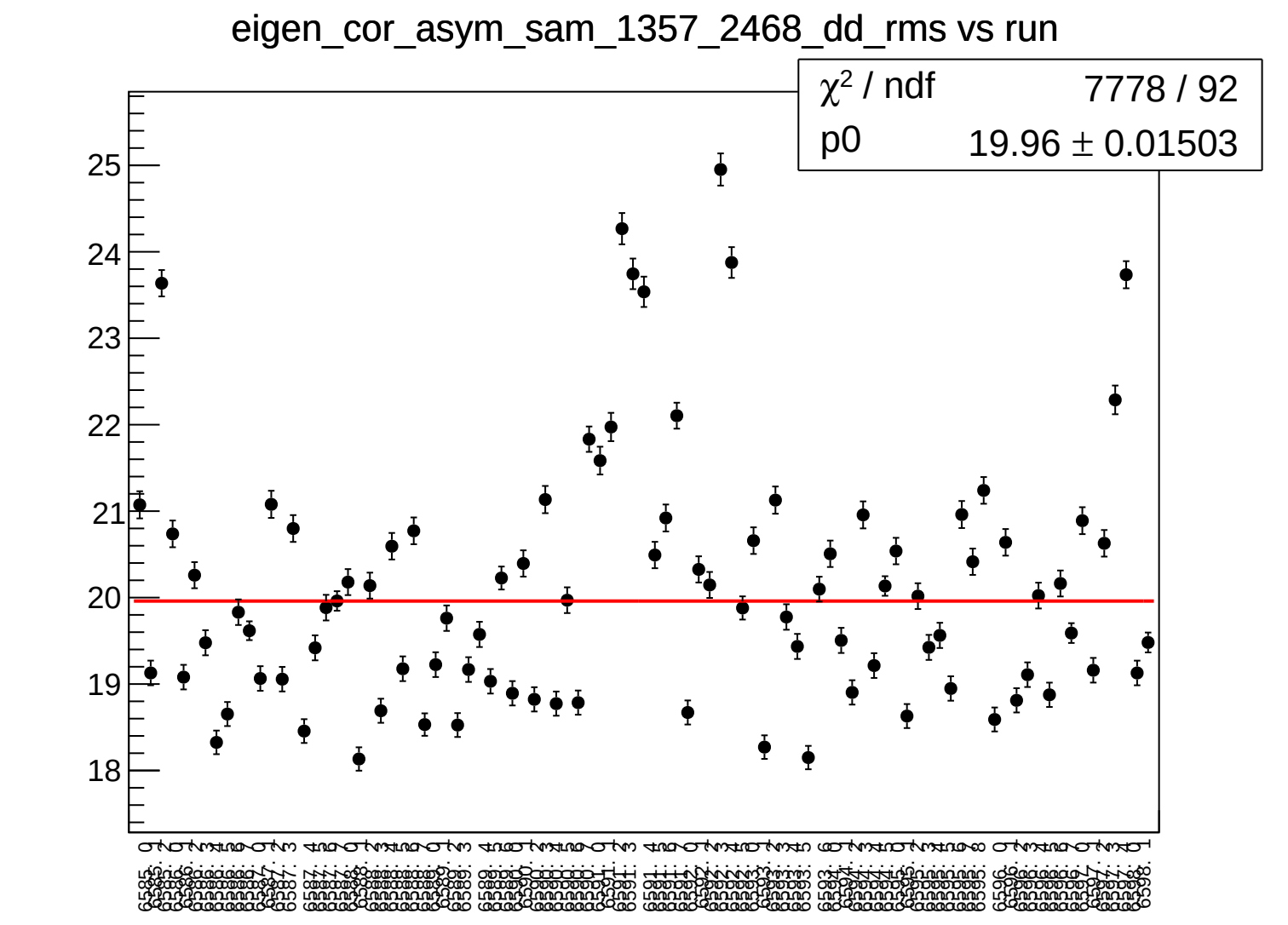

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7778 / 92
p0 19.96 ± 0.01503
25
24
23
22
21
20
19
18

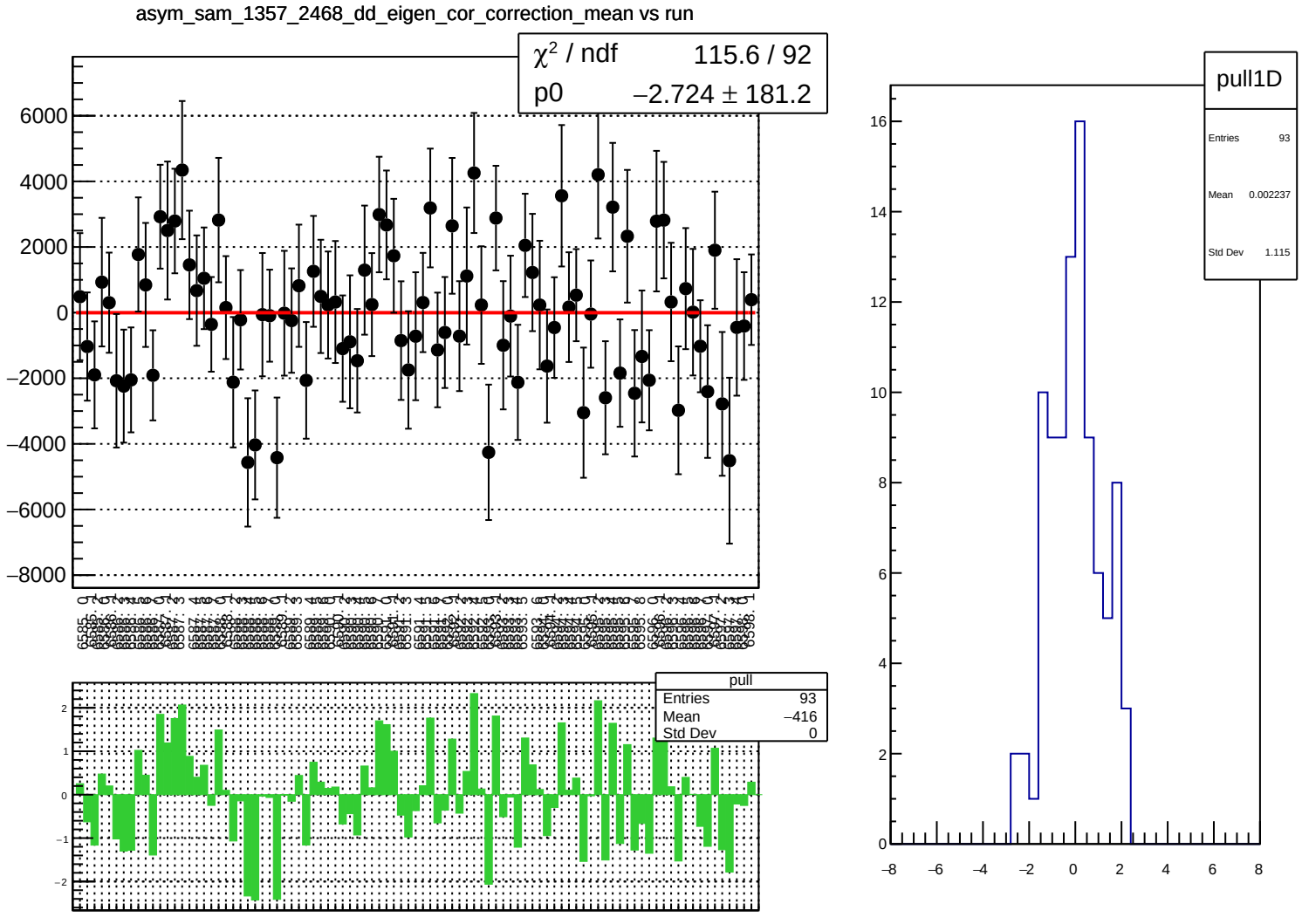

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 115.6 / 92
p0 −2.724 ± 181.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −416
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002237
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

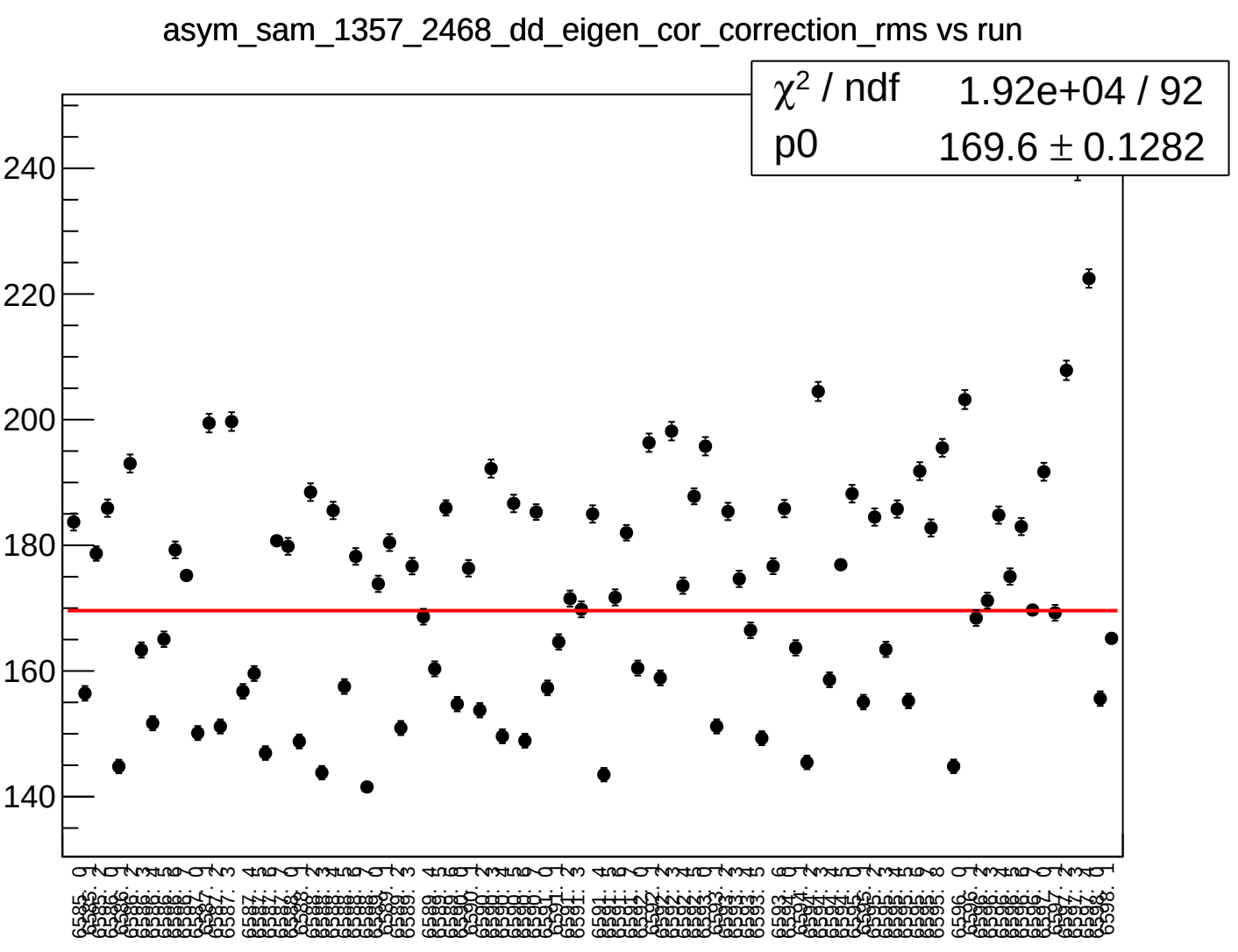

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.92e+04 / 92
p0 169.6 ± 0.1282
240
220
200
180
160
140

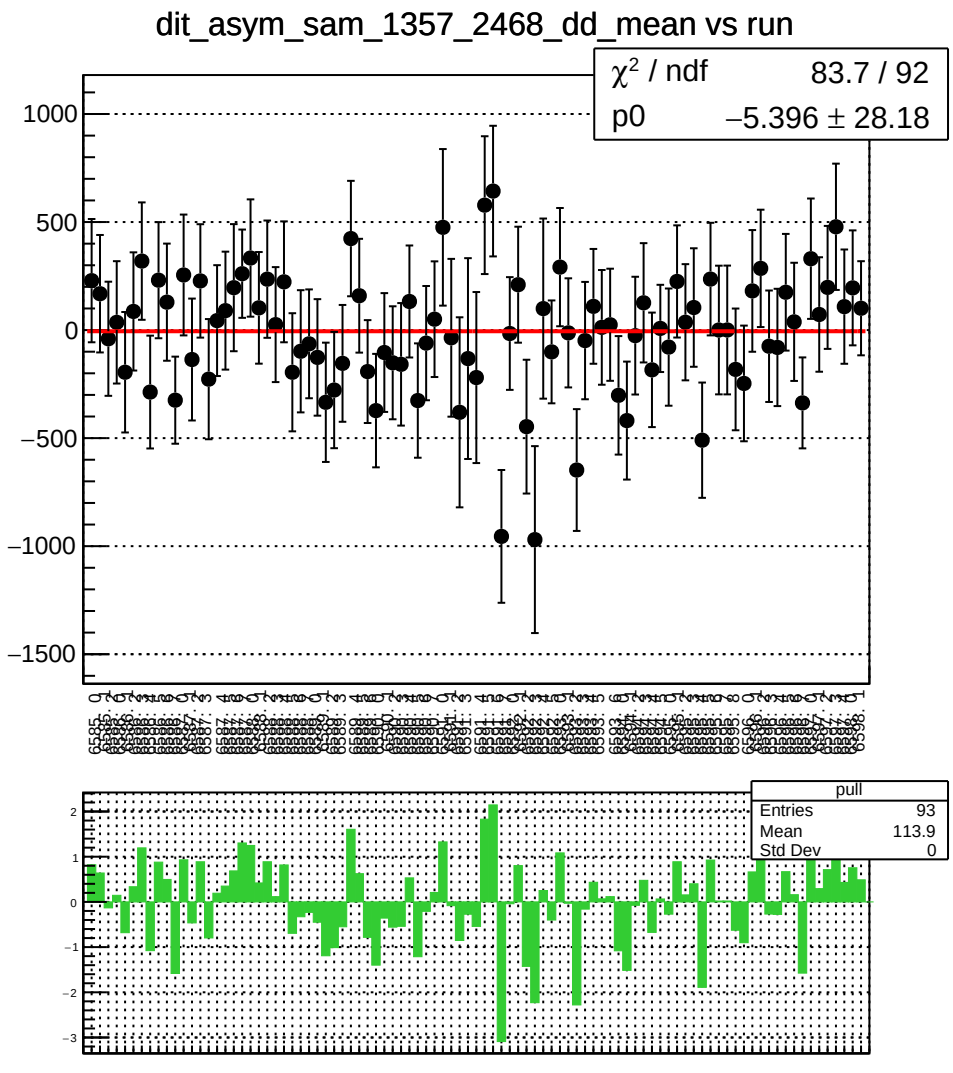

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 99.38 / 92
p0 30.02 ± 21.26
pull
Entries 93
Mean −964.7
Std Dev 0

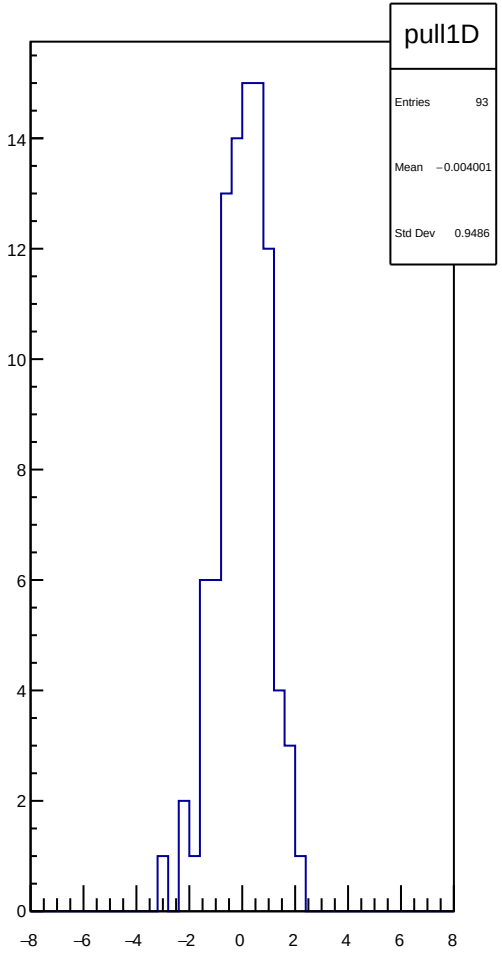

pull1D
Entries 93
Mean 0.001186
Std Dev 1.034

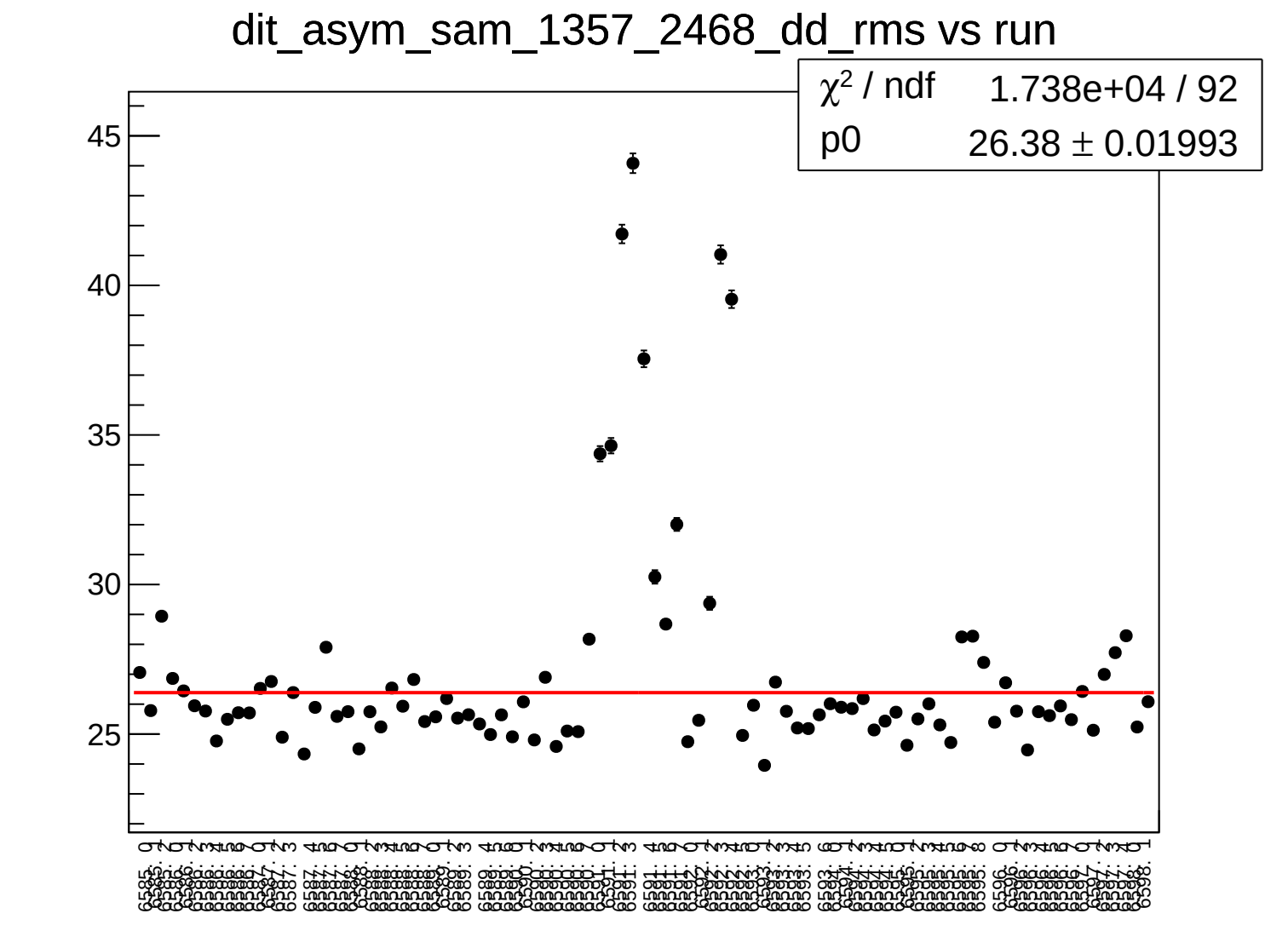

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7778 / 92
p0 19.96 ± 0.01503
25
24
23
22
21
20
19
18

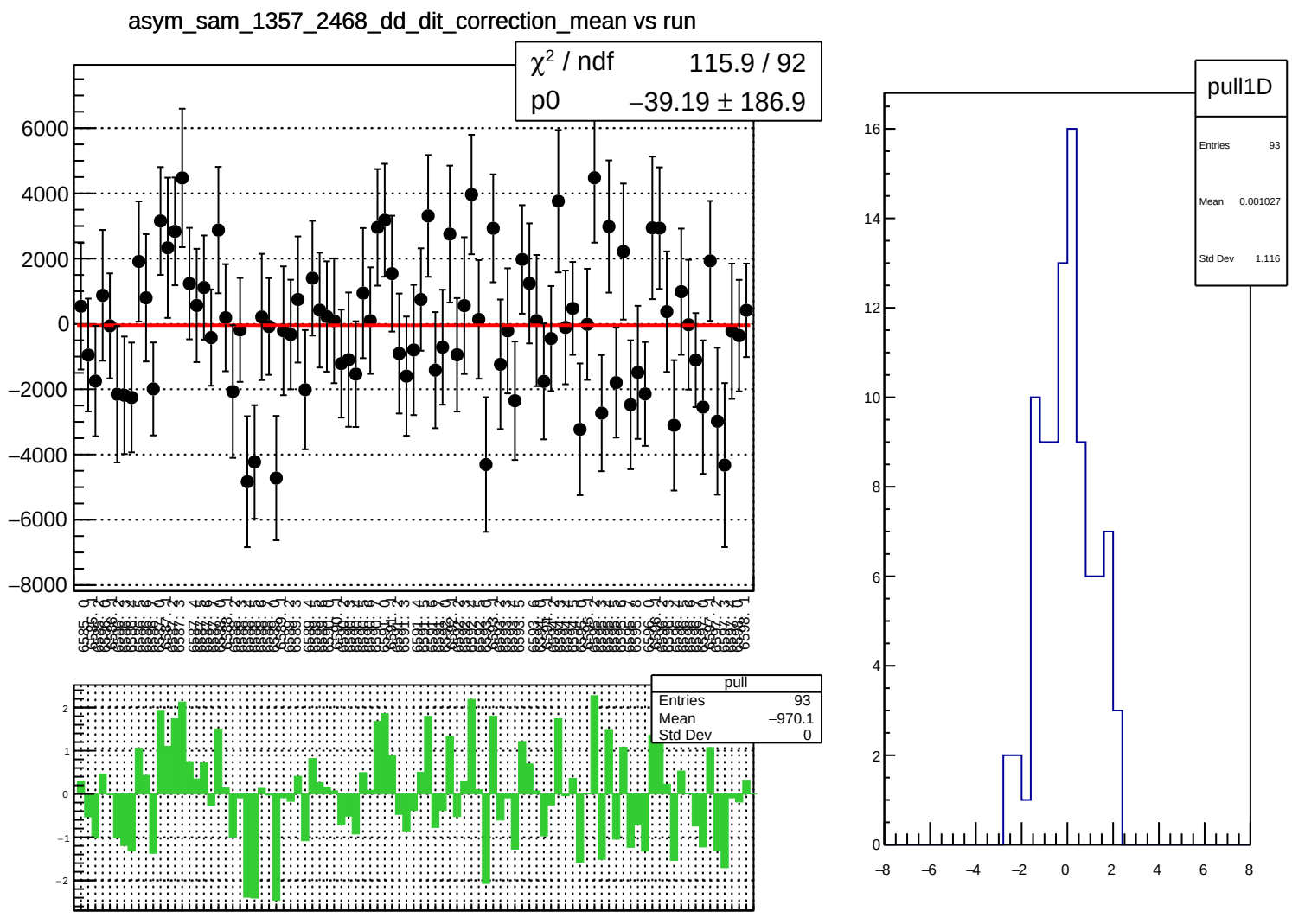

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 115.6 / 92
p0 −2.724 ± 181.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −416
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002237
Std Dev 1.115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

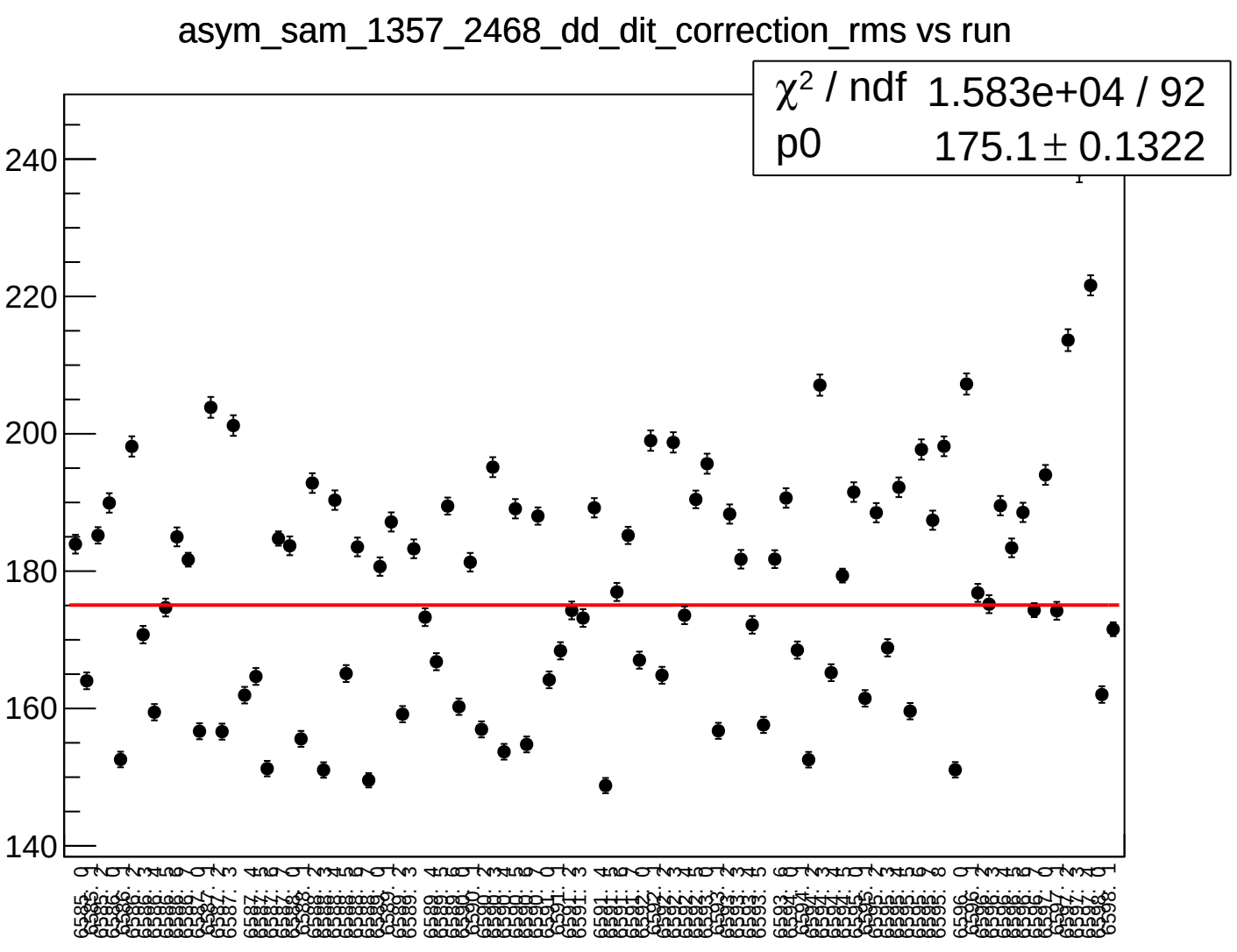

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.92e+04 / 92
p0 169.6 ± 0.1282
240
220
200
180
160
140

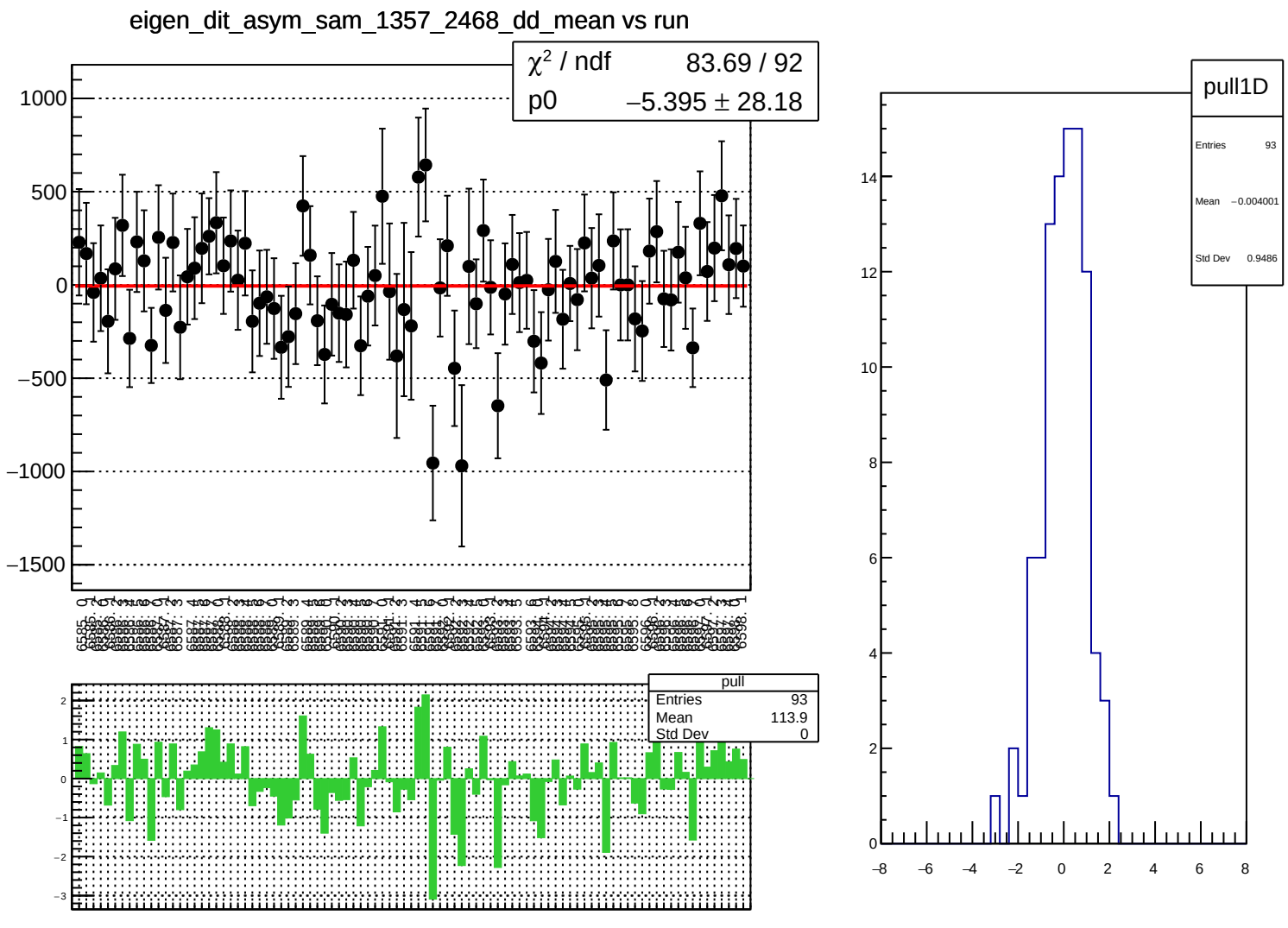

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.7 / 92
p0 −5.396 ± 28.18
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 113.9
Std Dev 0
2
1
0
−1
−2
−3

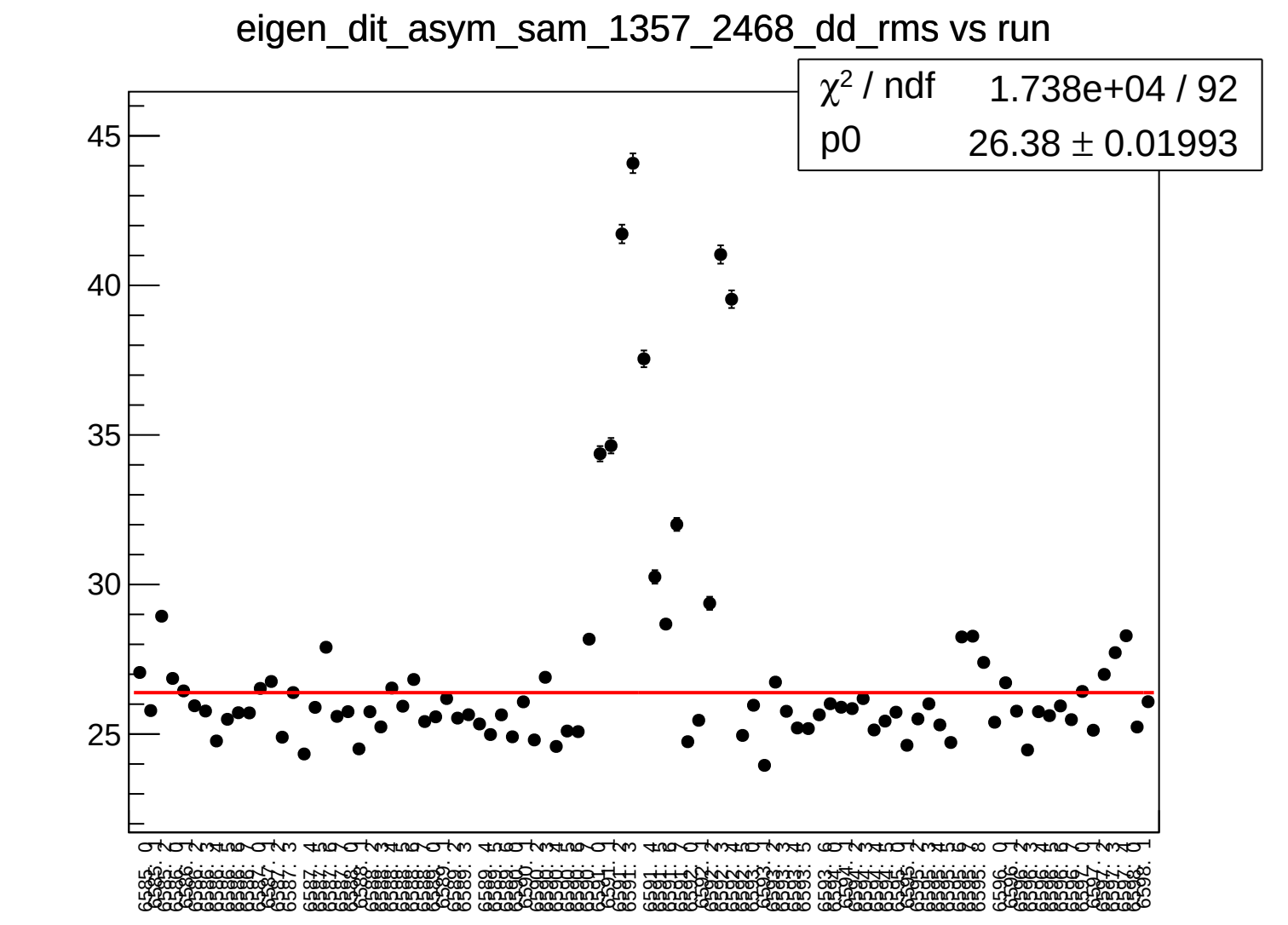

pull1D
Entries 93
Mean −0.004001
Std Dev 0.9486
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

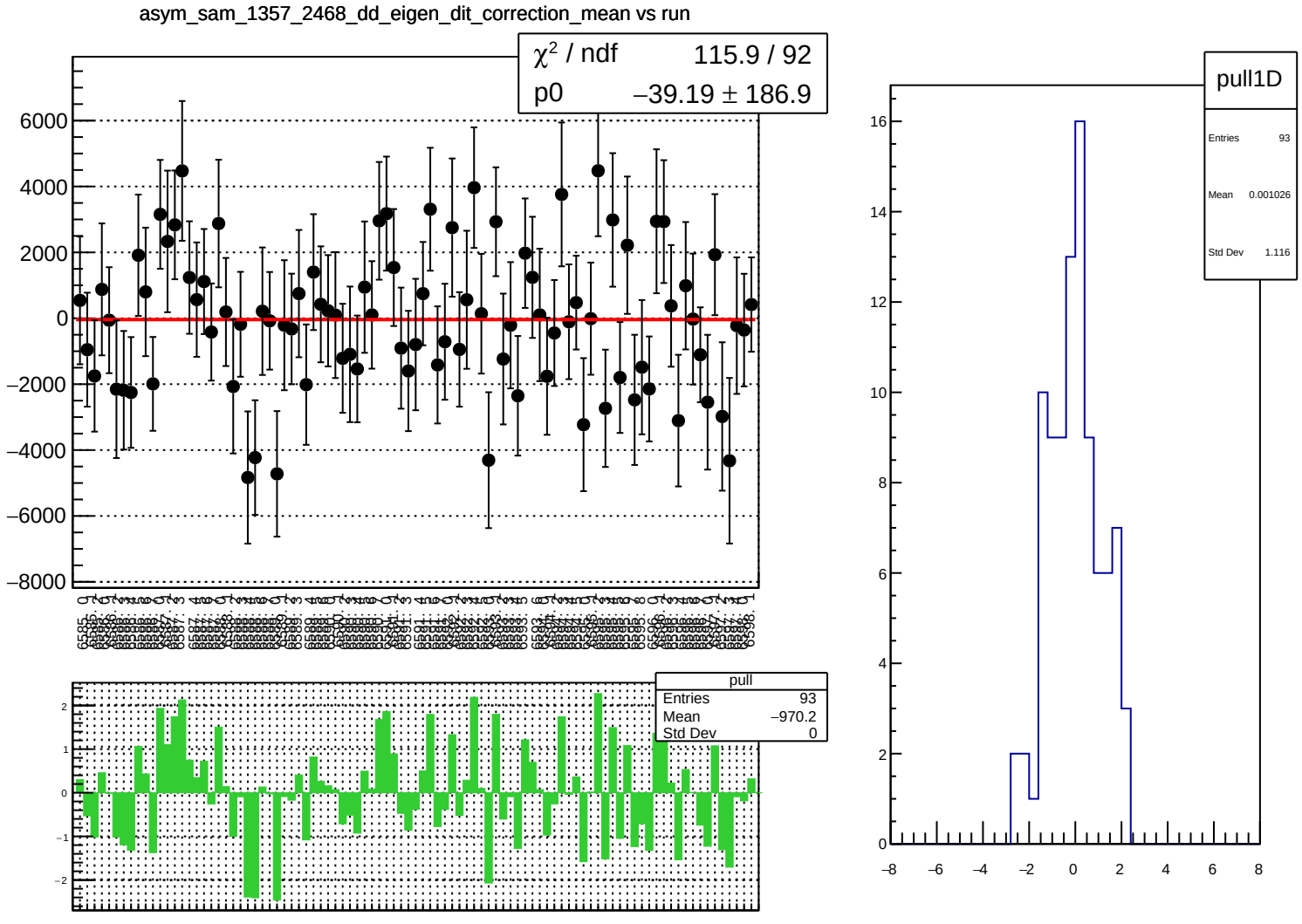

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.738e+04 / 92
p0 26.38 ± 0.01993
45
40
35
30
25

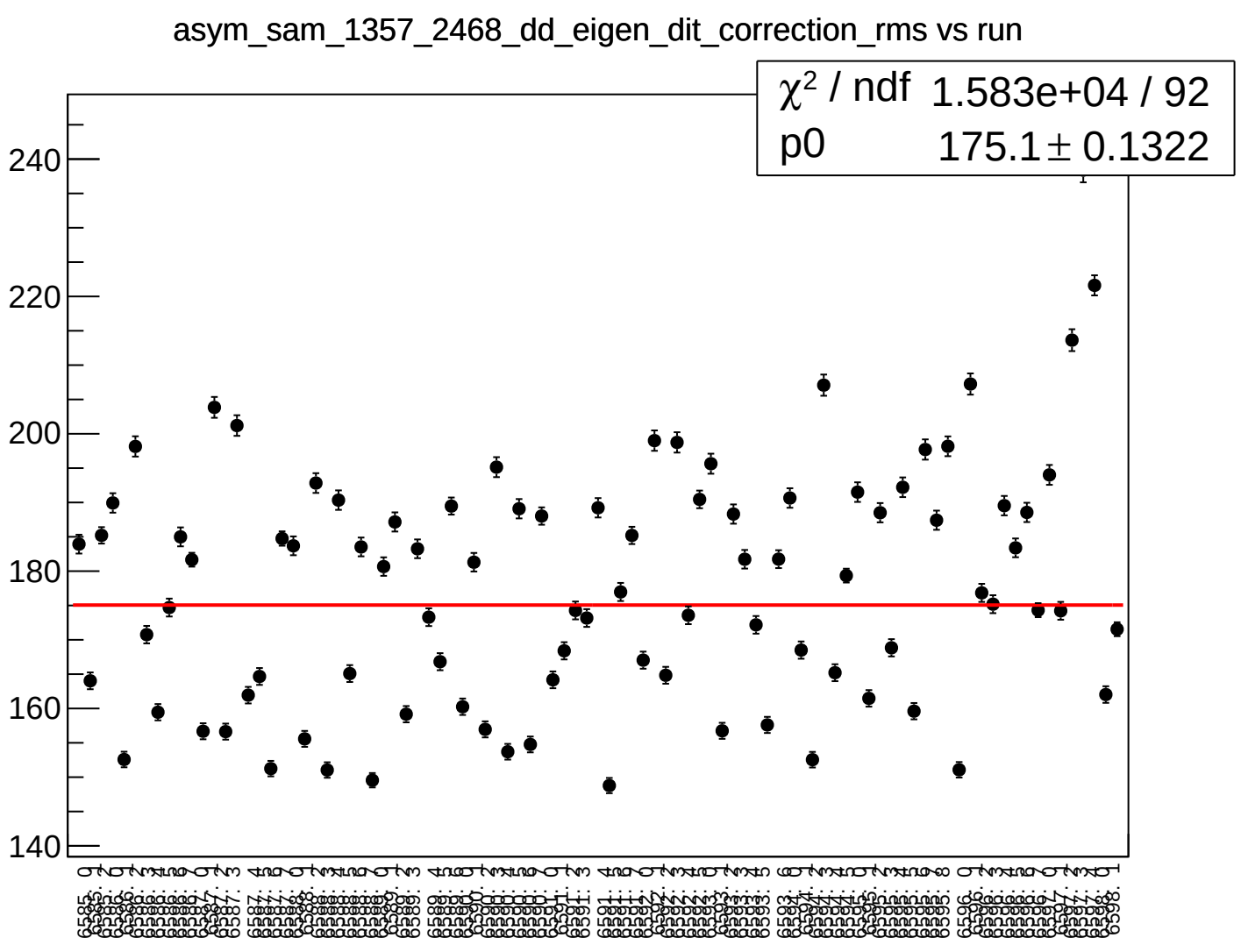

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 115.9 / 92
p0 −39.19 ± 186.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −970.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001027
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

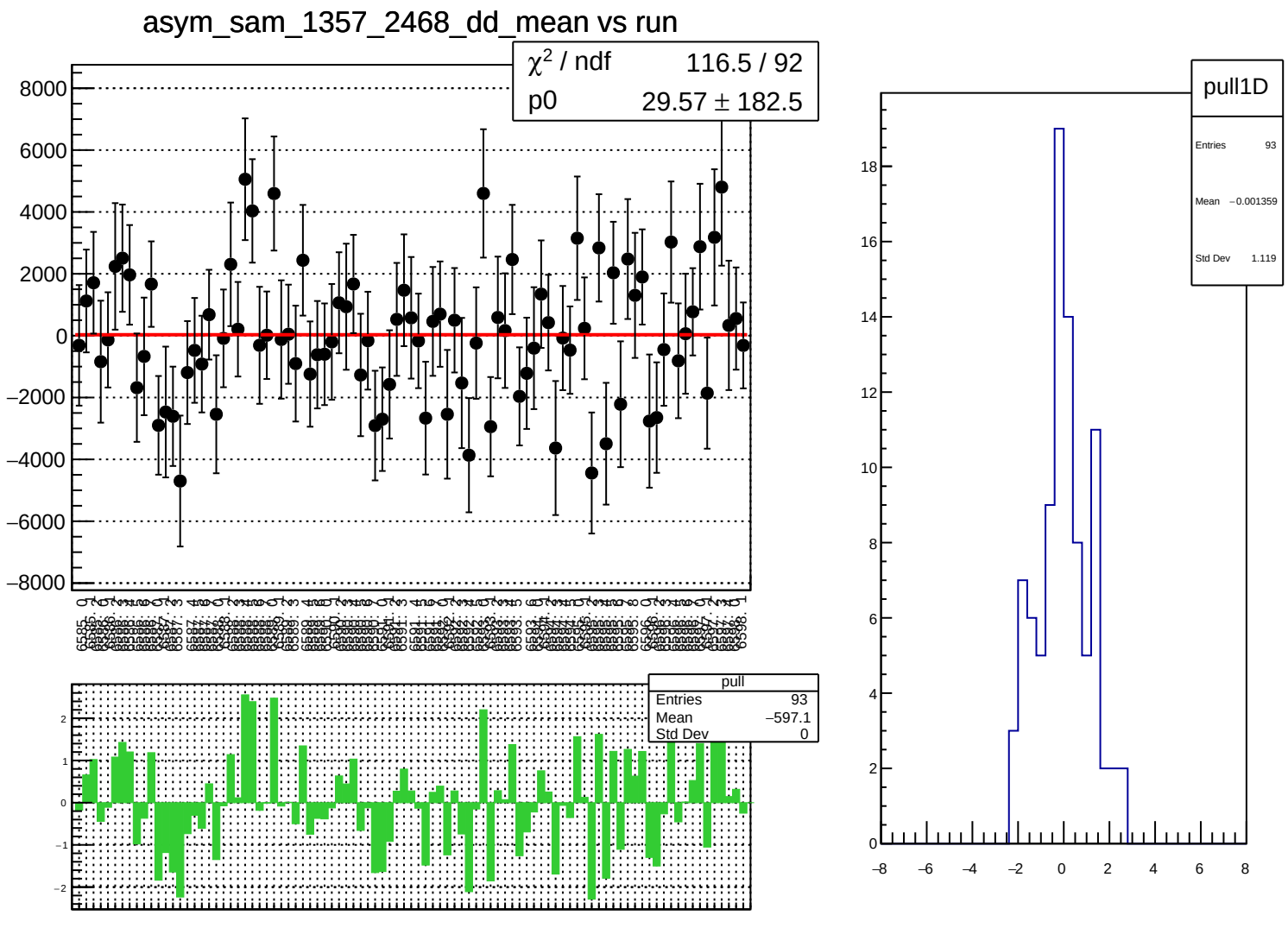

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.583e+04 / 92
p0 175.1 ± 0.1322
240
220
200
180
160
140

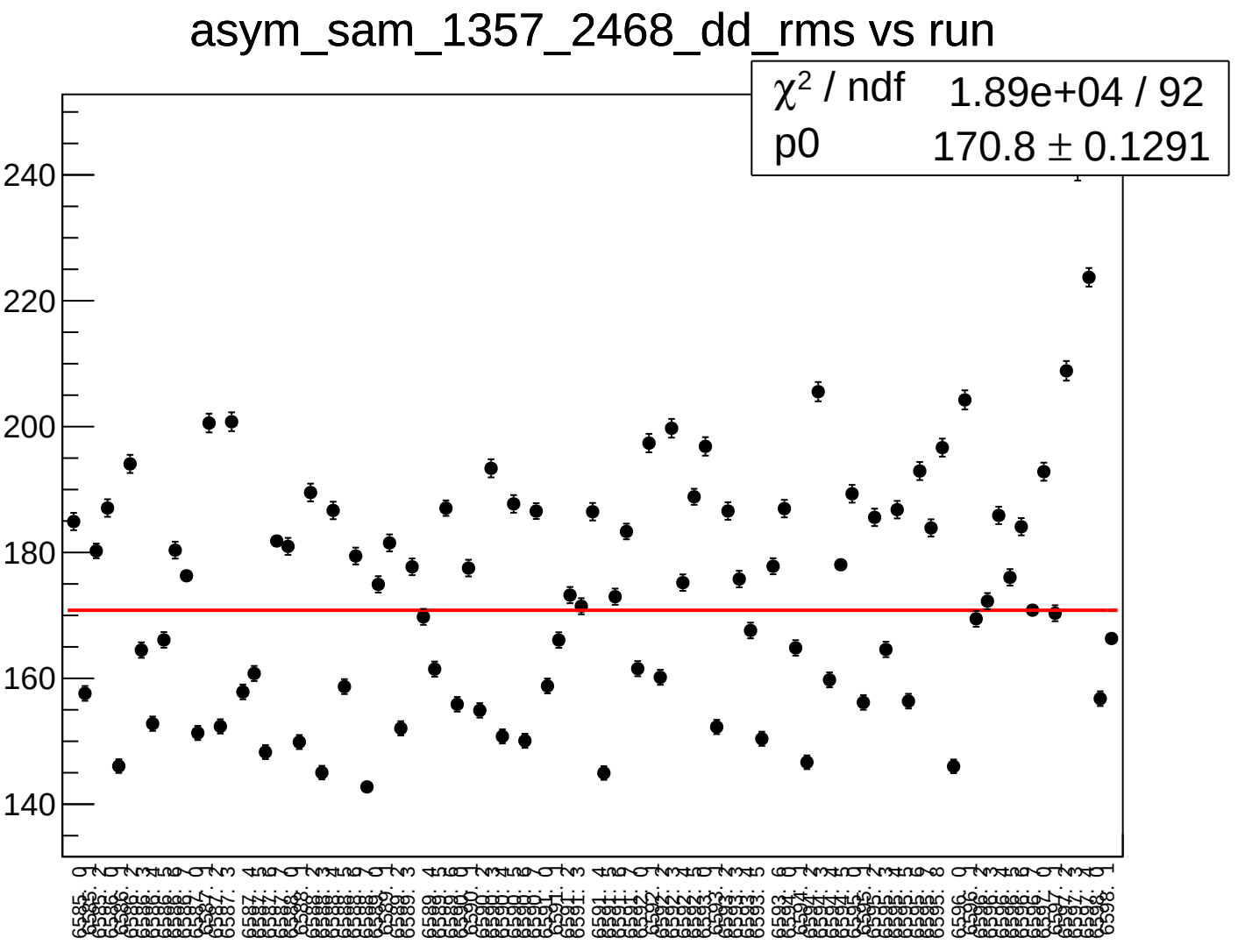

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.69 / 92
p0 −5.395 ± 28.18
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 113.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.004001
Std Dev 0.9486
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

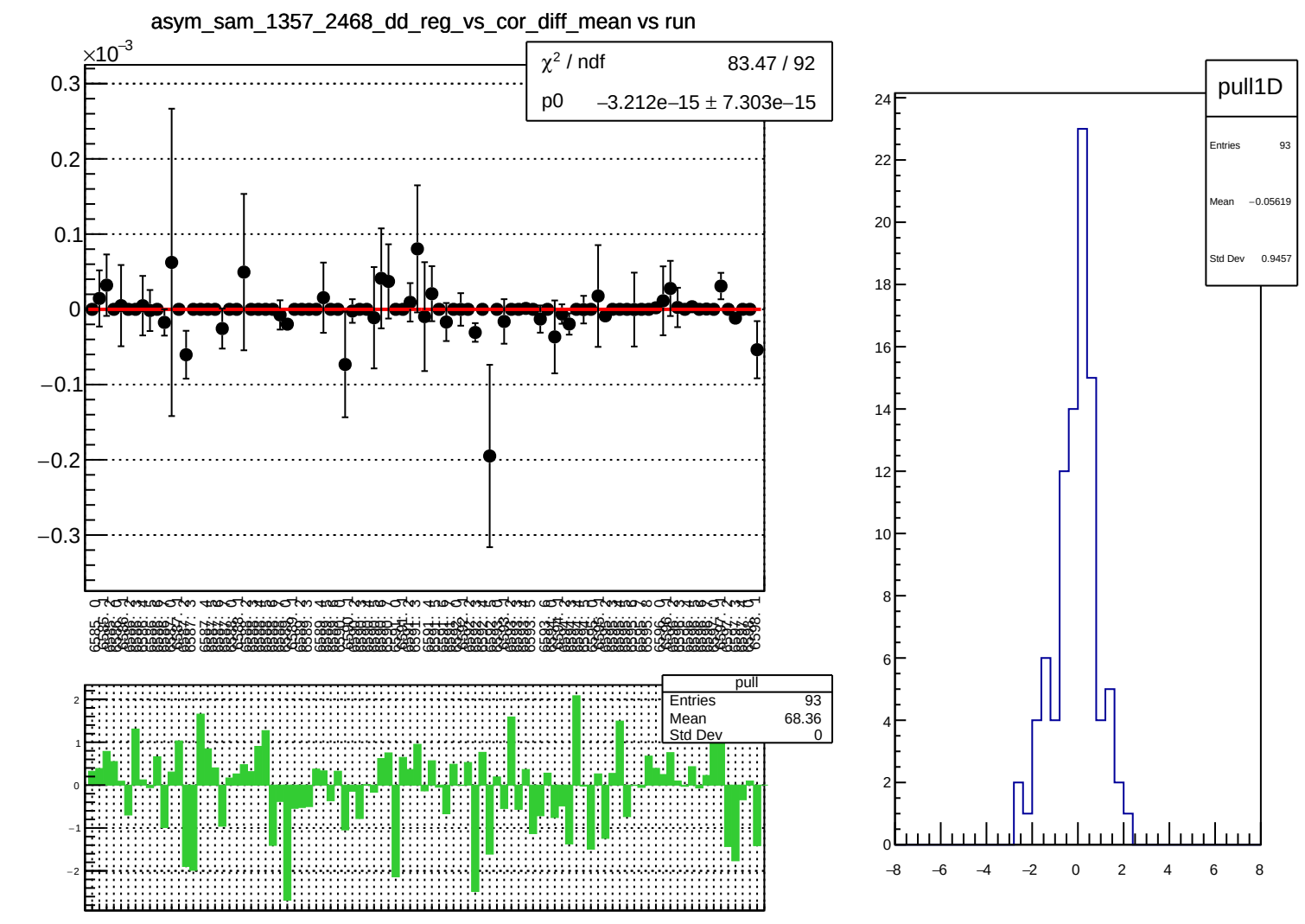

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.738e+04 / 92
p0 26.38 ± 0.01993
45
40
35
30
25

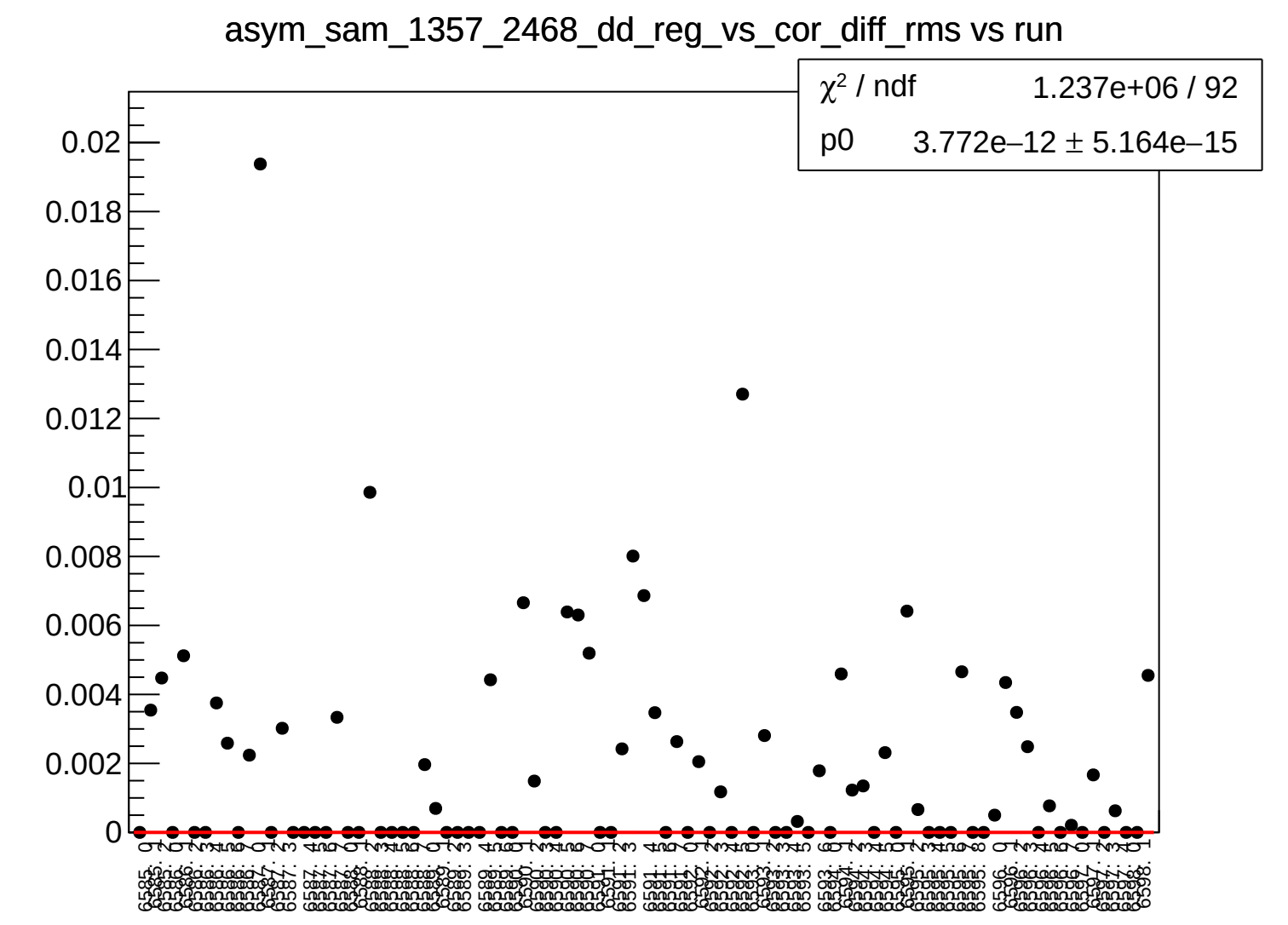

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 115.9 / 92
p0 −39.19 ± 186.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −970.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001026
Std Dev 1.116
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

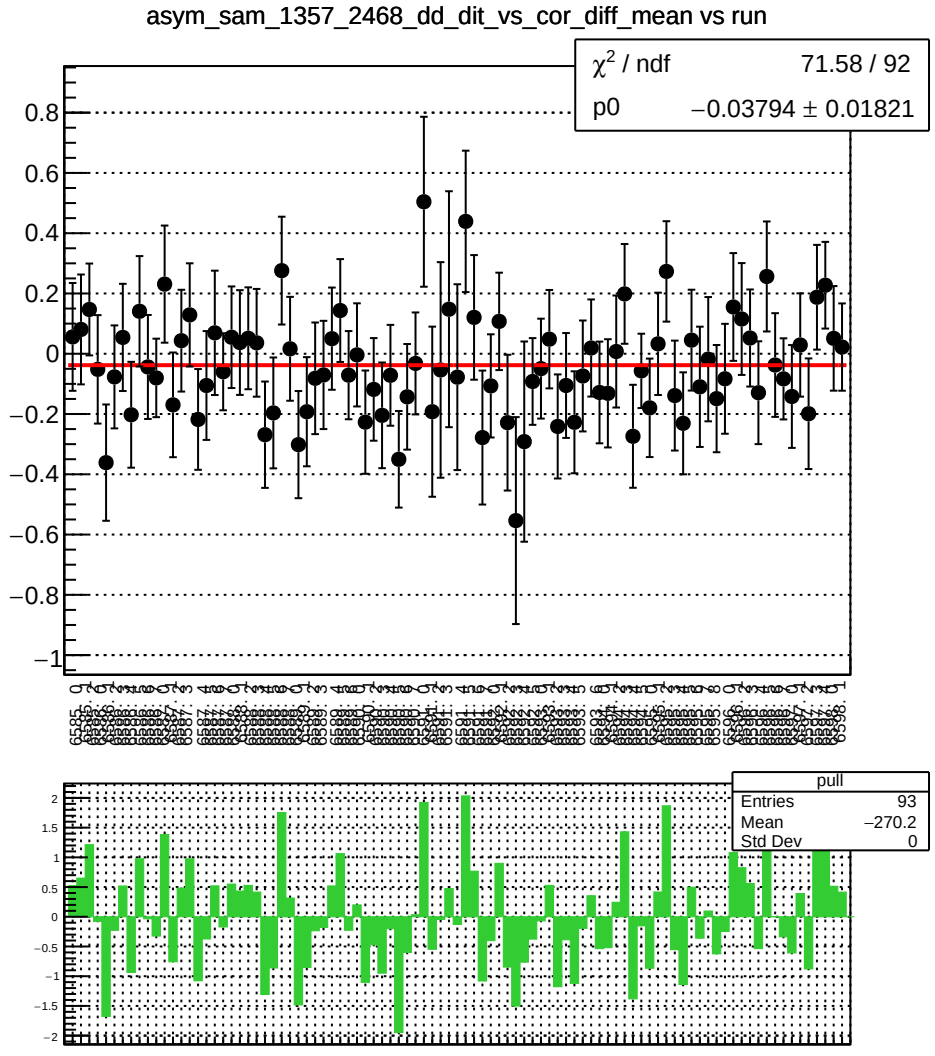

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.583e+04 / 92
p0 175.1 ± 0.1322
240
220
200
180
160
140

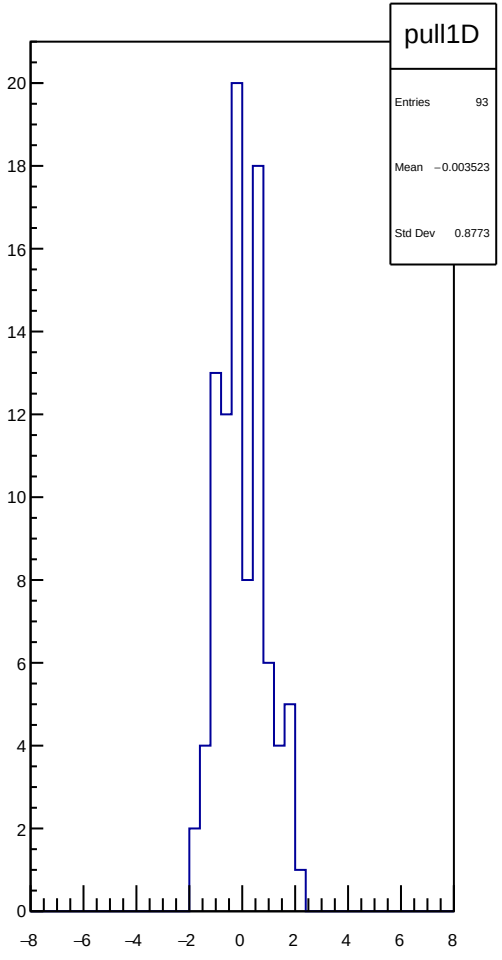

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 116.5 / 92
p0 29.57 ± 182.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −597.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001359
Std Dev 1.119
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

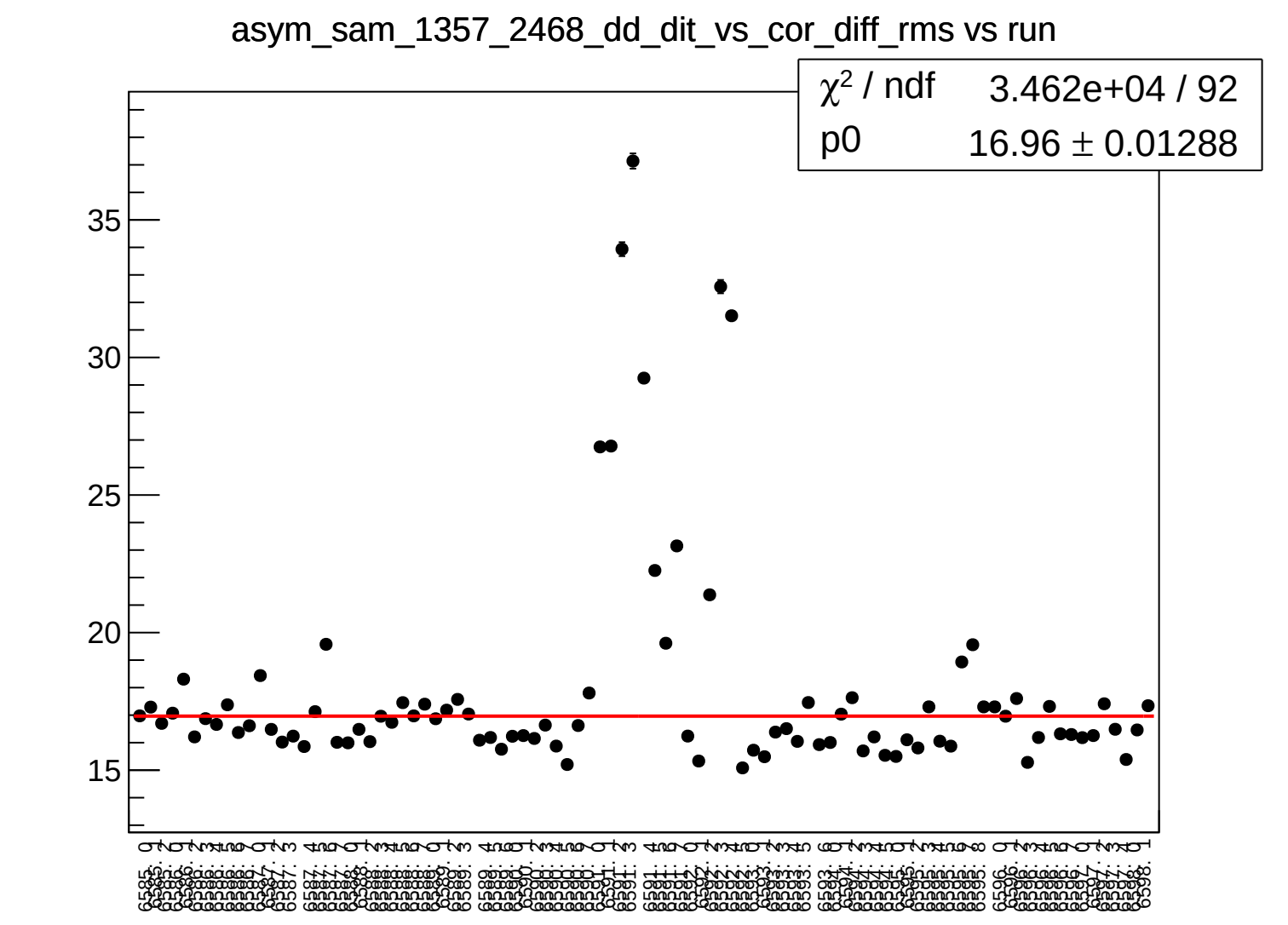

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.89e+04 / 92
p0 170.8 ± 0.1291
240
220
200
180
160
140

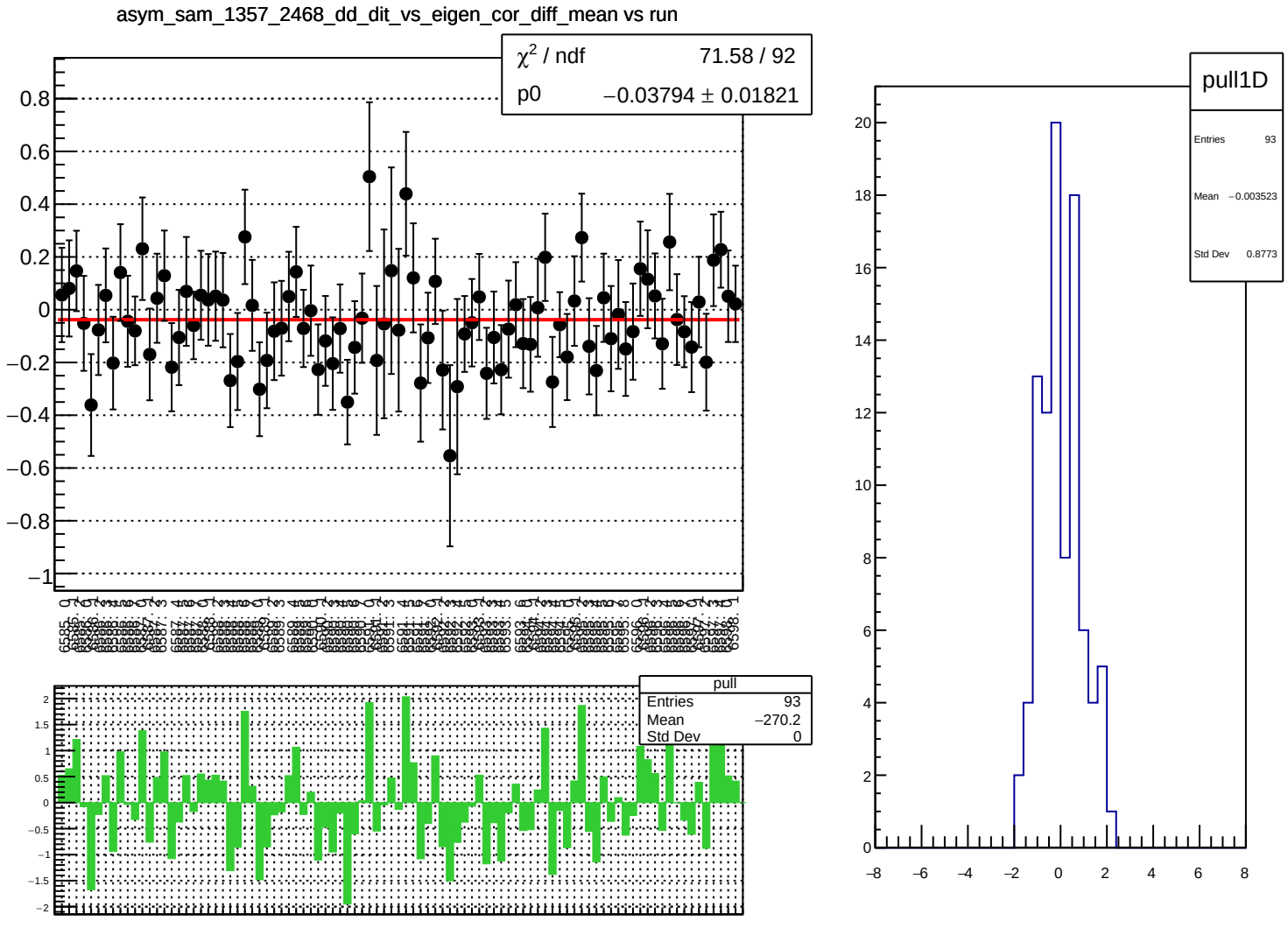

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 83.47 / 92
p0 −3.212e−15 ± 7.303e−15
pull
Entries 93
Mean 68.36
Std Dev 0
pull1D
Entries 93
Mean −0.05619
Std Dev 0.9457

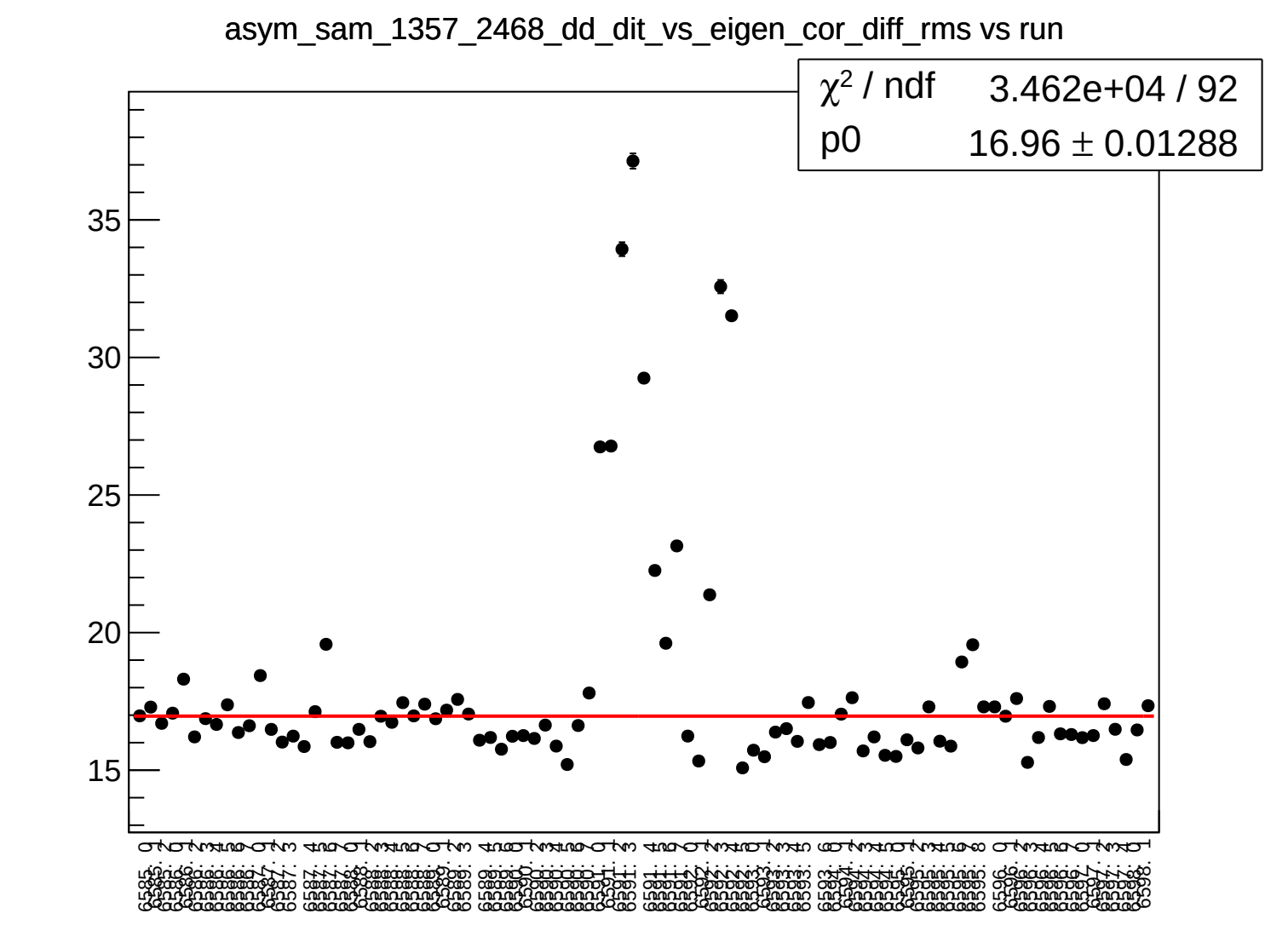

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.237e+06 / 92
p0 3.772e−12 ± 5.164e−15
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

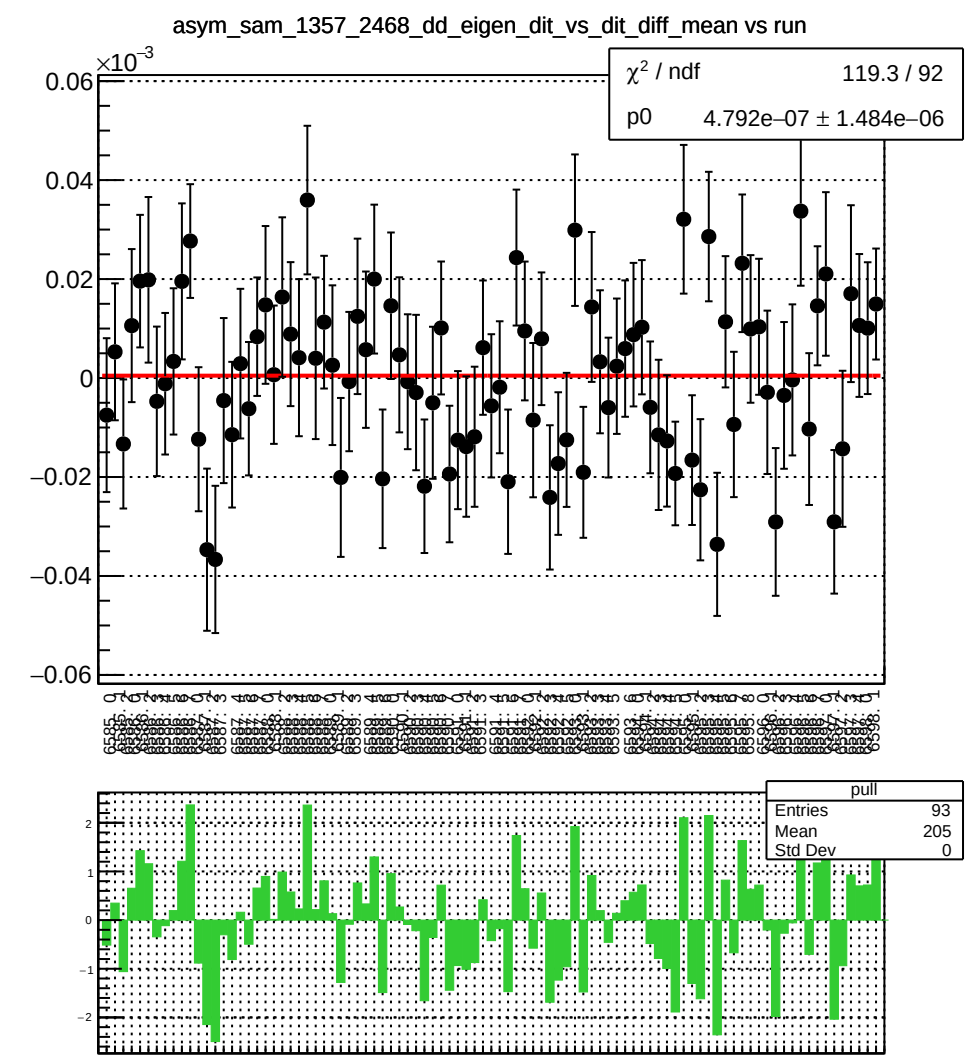

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.58 / 92
p0 −0.03794 ± 0.01821
pull
Entries 93
Mean −270.2
Std Dev 0

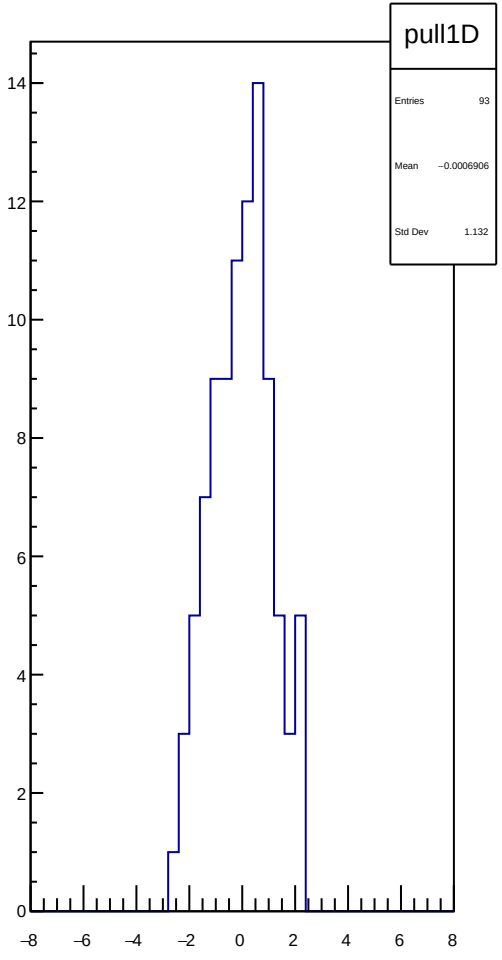

pull1D
Entries 93
Mean −0.003523
Std Dev 0.8773

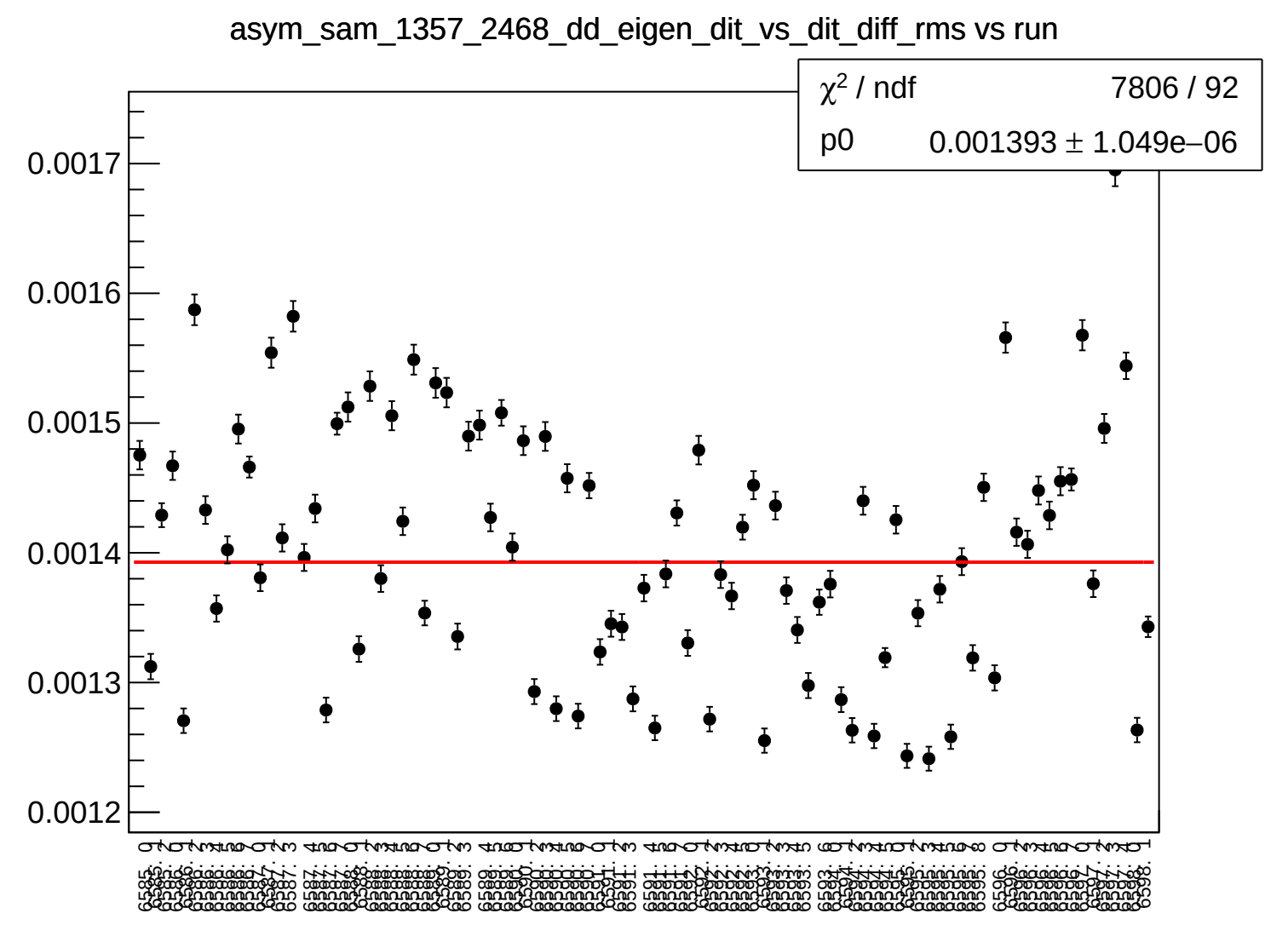

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.462e+04 / 92
p0 16.96 ± 0.01288
35
30
25
20
15

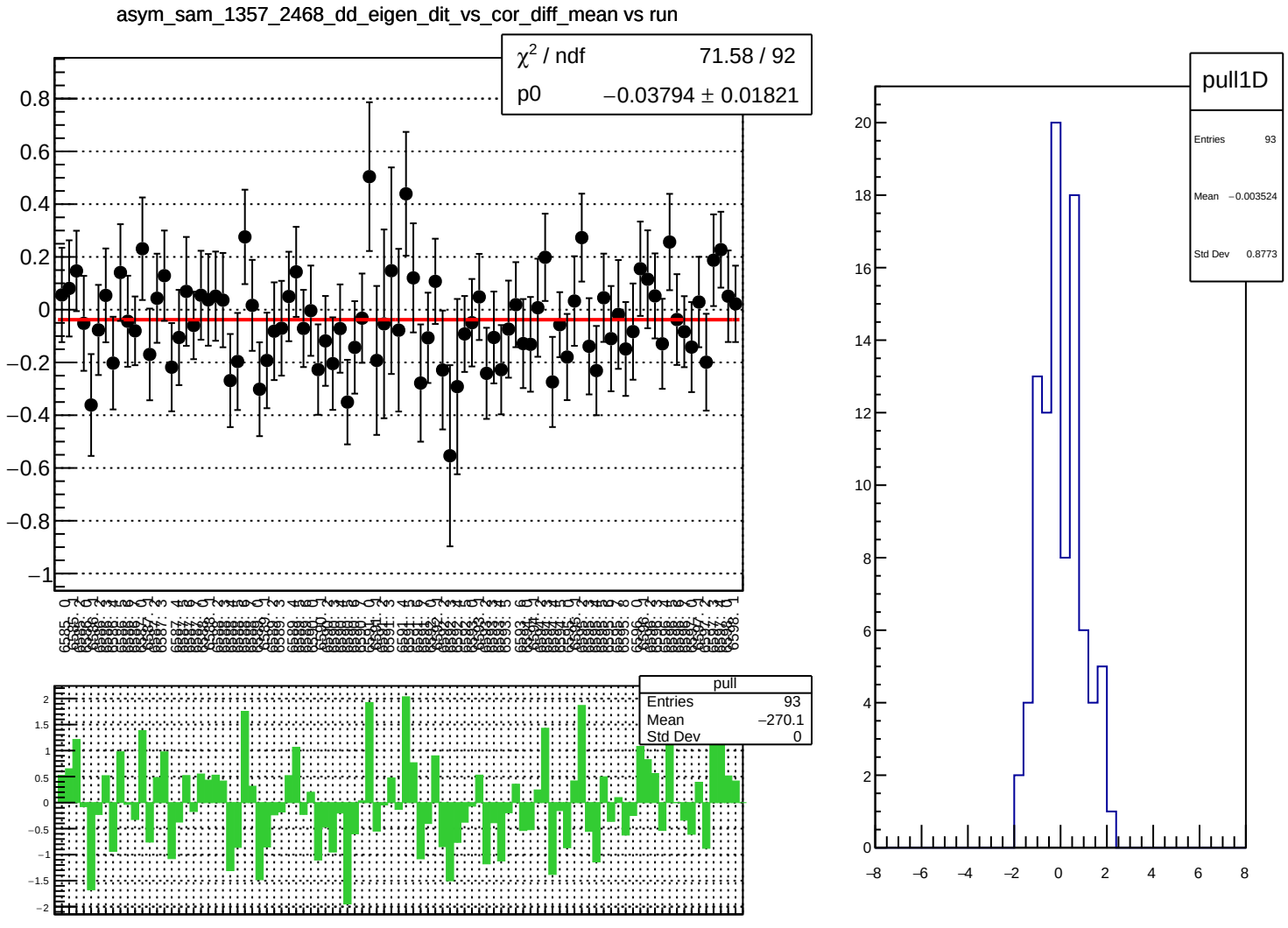

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.58 / 92
p0 −0.03794 ± 0.01821
pull
Entries 93
Mean −270.2
Std Dev 0
pull1D
Entries 93
Mean −0.003523
Std Dev 0.8773

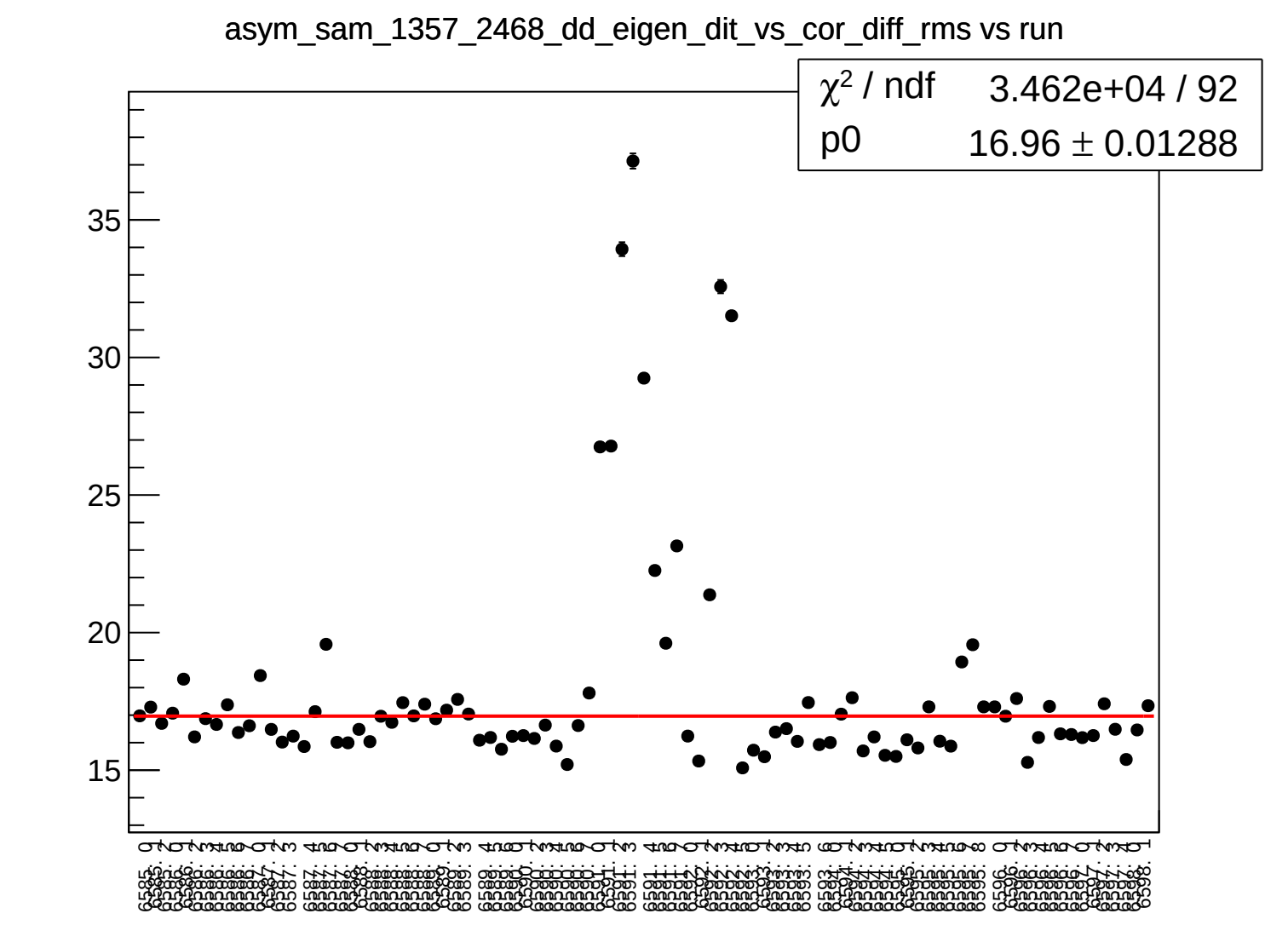

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.462e+04 / 92
p0 16.96 ± 0.01288
35
30
25
20
15

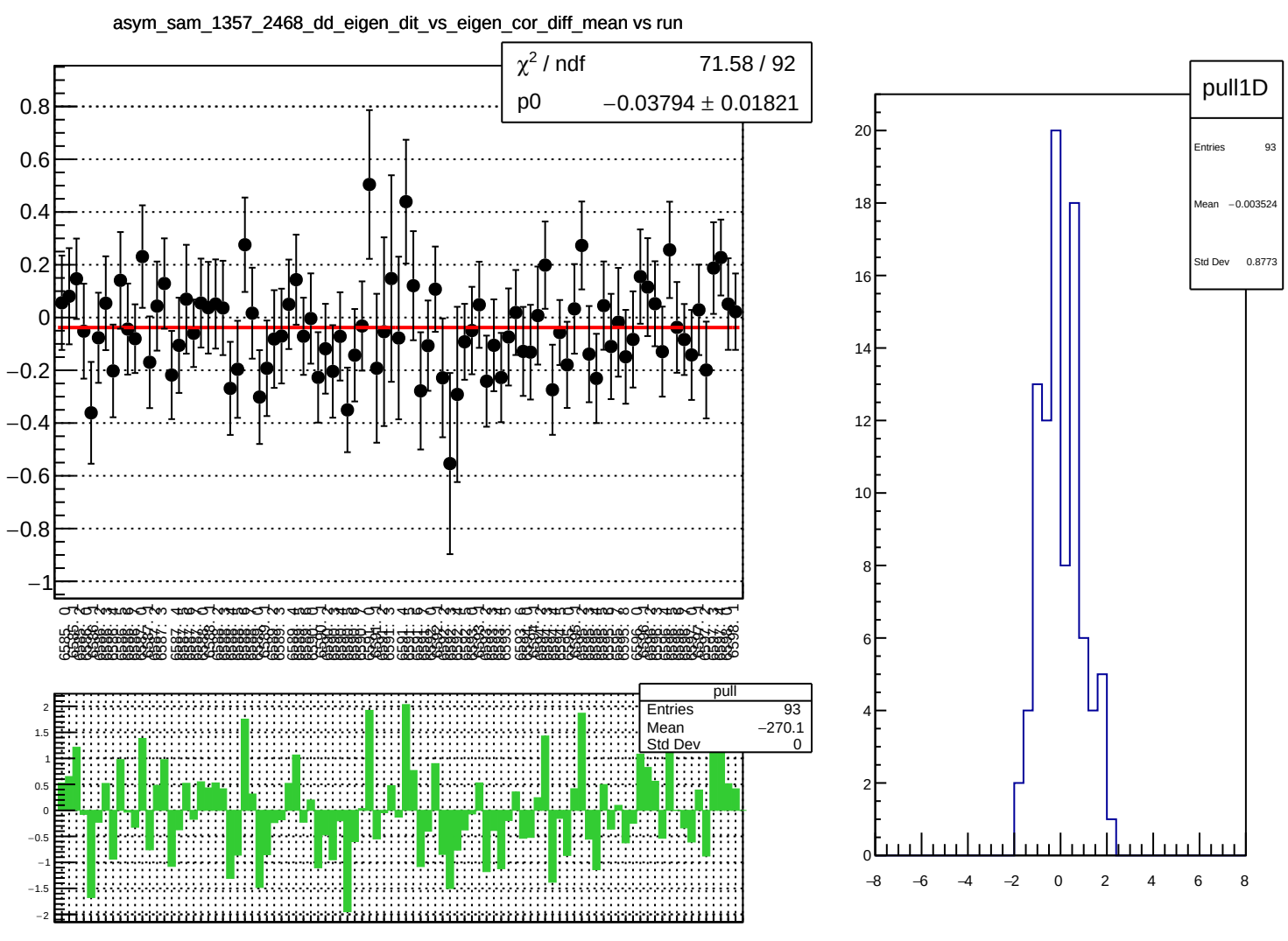

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 119.3 / 92
p0 4.792e−07 ± 1.484e−06
pull
Entries 93
Mean 205
Std Dev 0

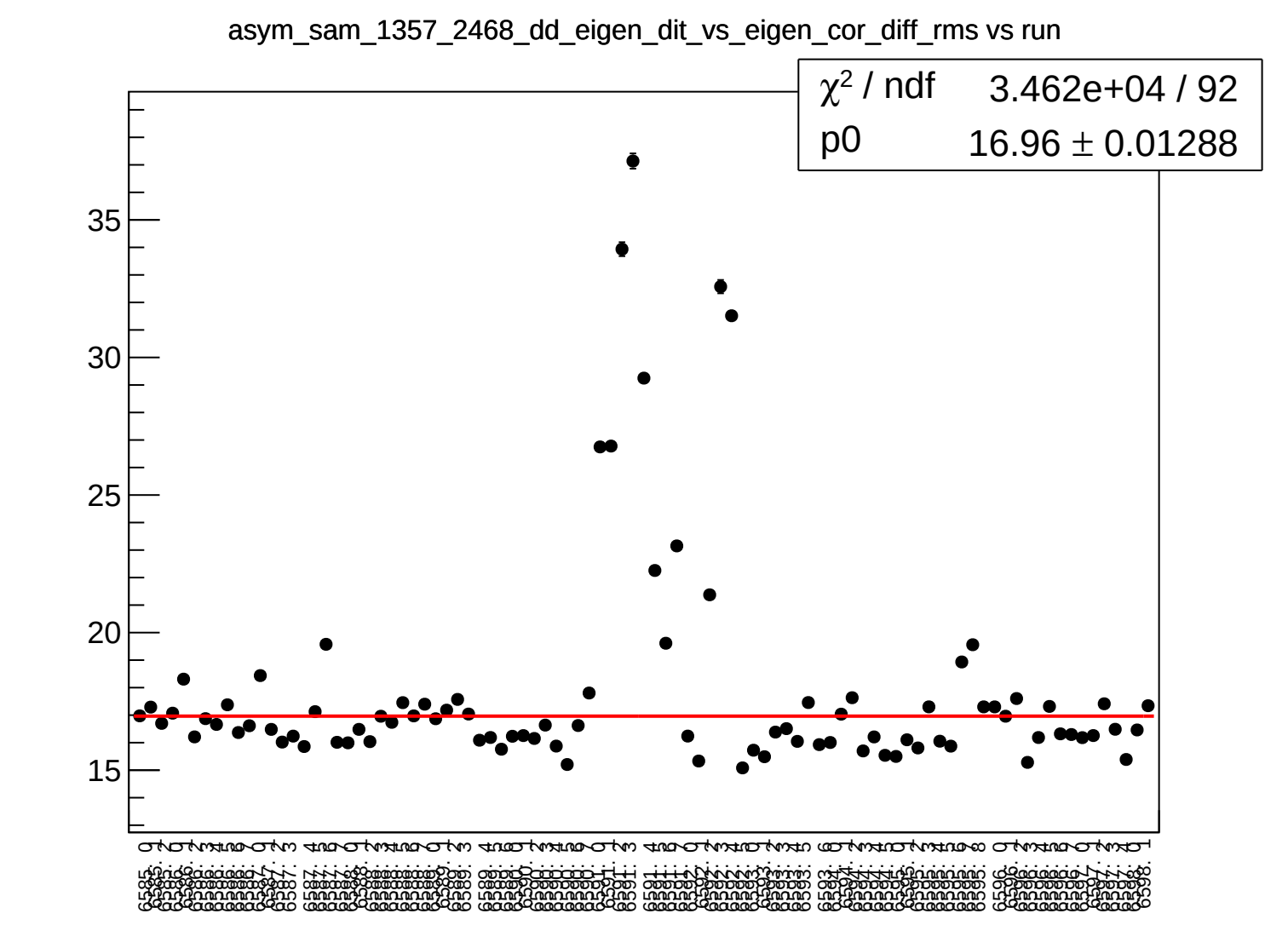

pull1D
Entries 93
Mean −0.0006906
Std Dev 1.132

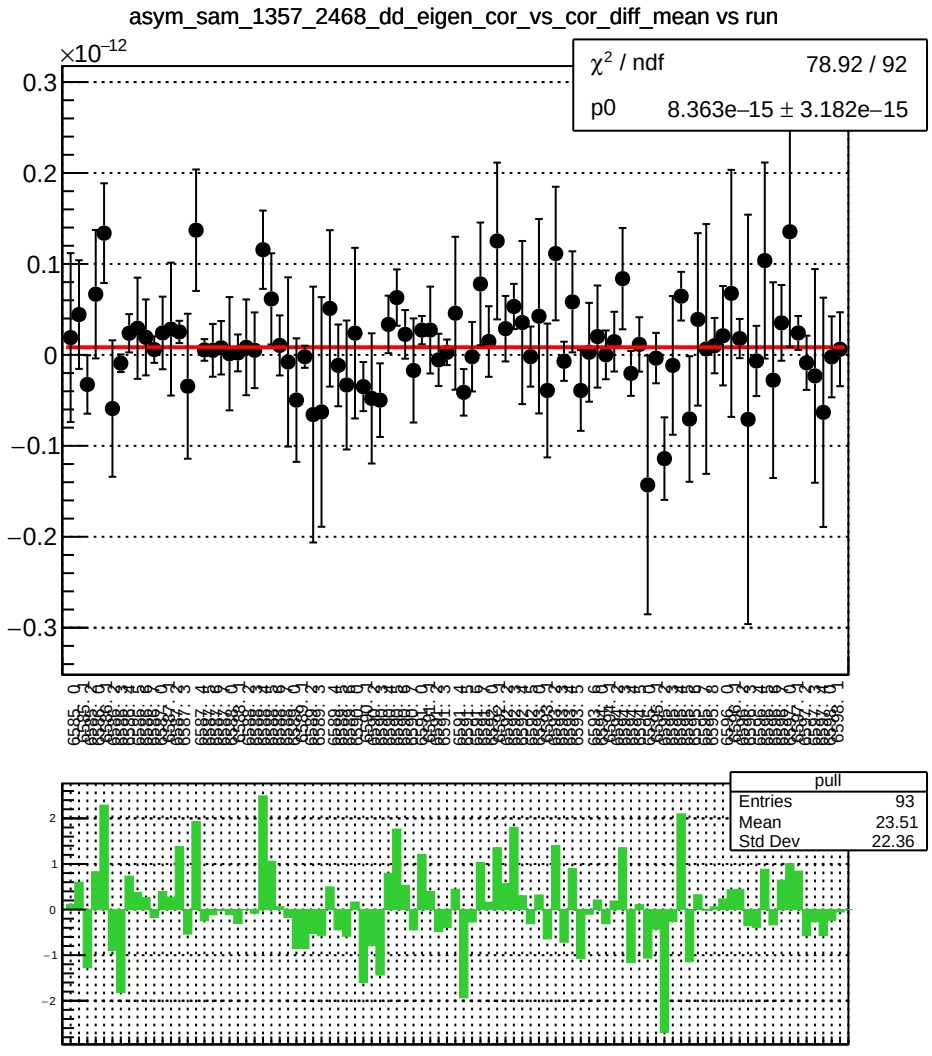

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7806 / 92
p0 0.001393 ± 1.049e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

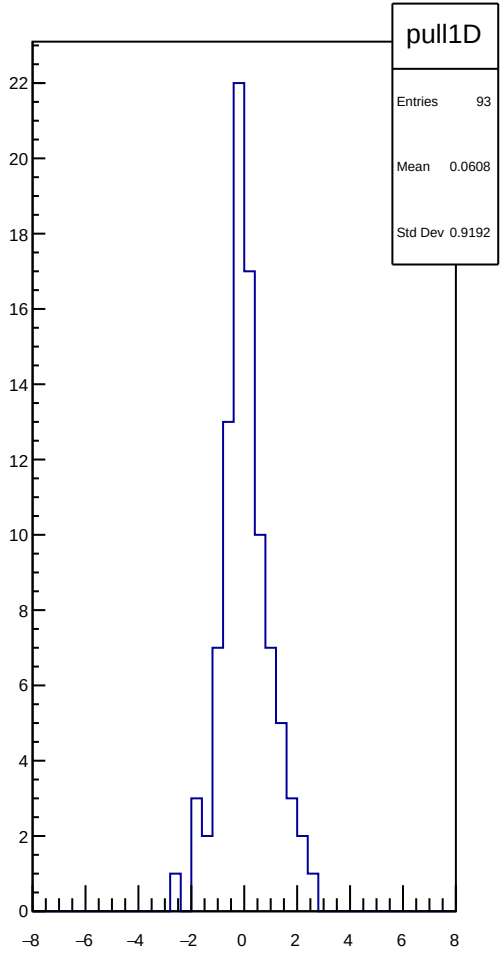

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.58 / 92
p0 −0.03794 ± 0.01821
pull
Entries 93
Mean −270.1
Std Dev 0
pull1D
Entries 93
Mean −0.003524
Std Dev 0.8773

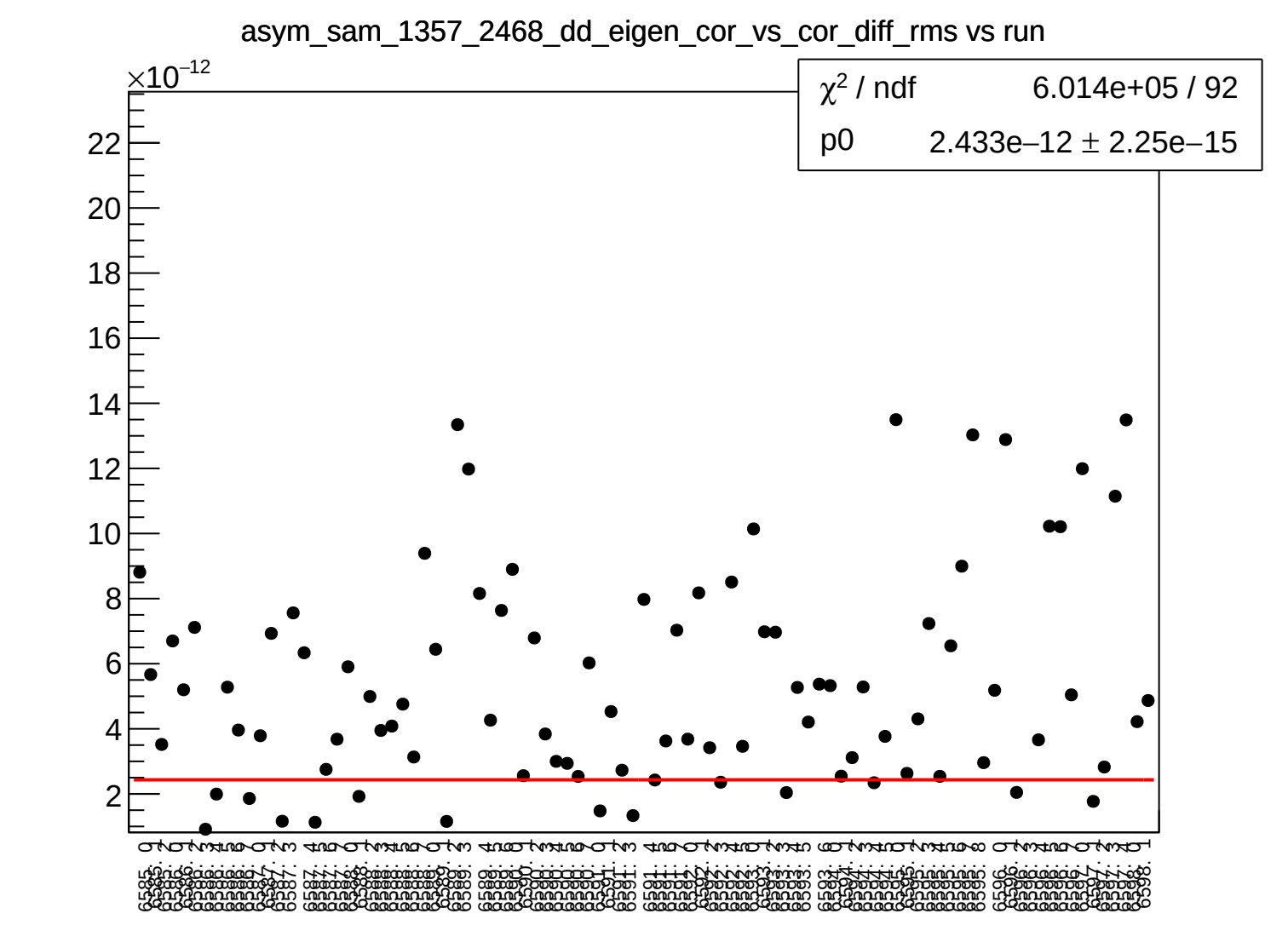

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.462e+04 / 92
p0 16.96 ± 0.01288
35
30
25
20
15

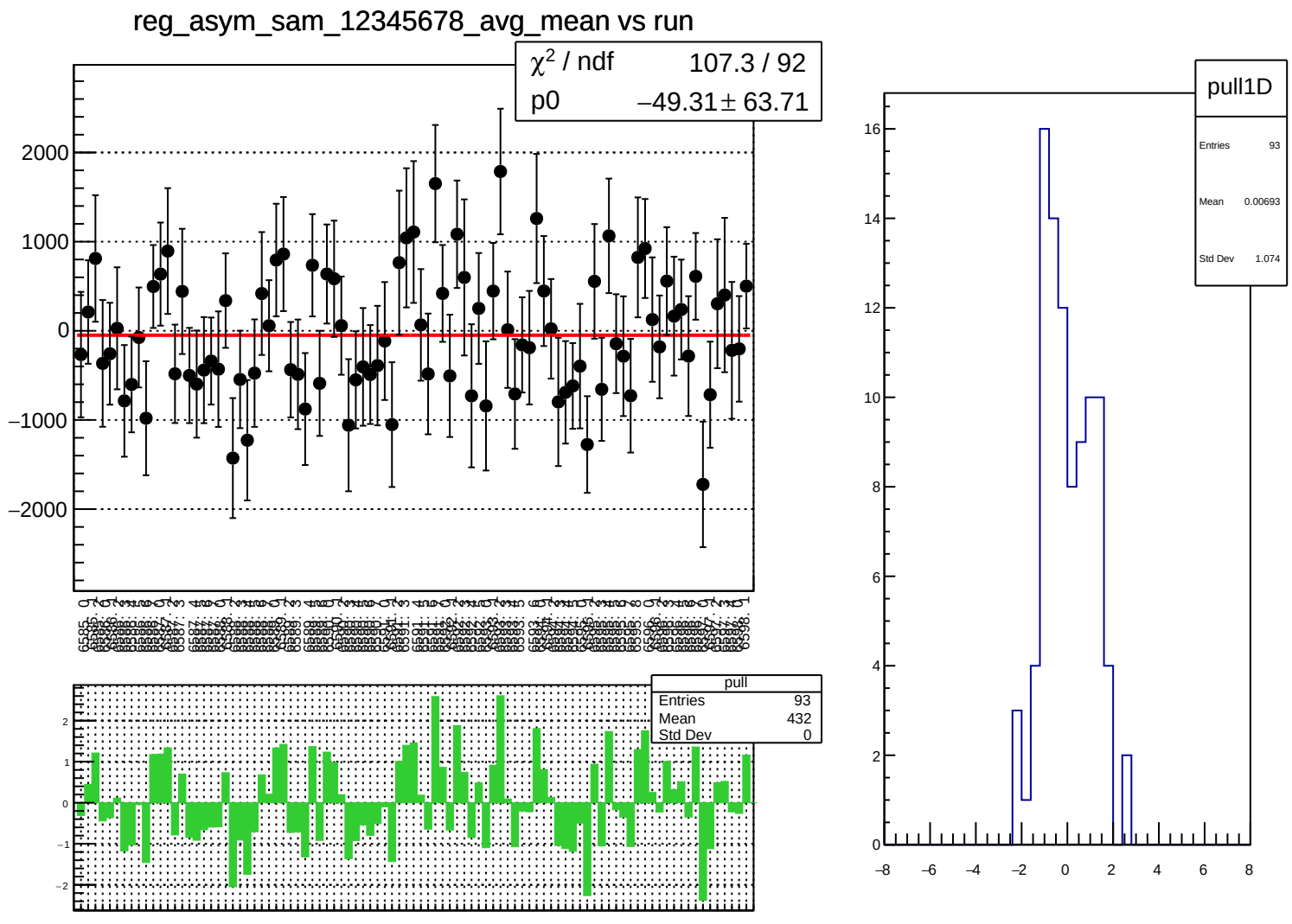

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.58 / 92
p0 −0.03794 ± 0.01821
pull
Entries 93
Mean −270.1
Std Dev 0
pull1D
Entries 93
Mean −0.003524
Std Dev 0.8773

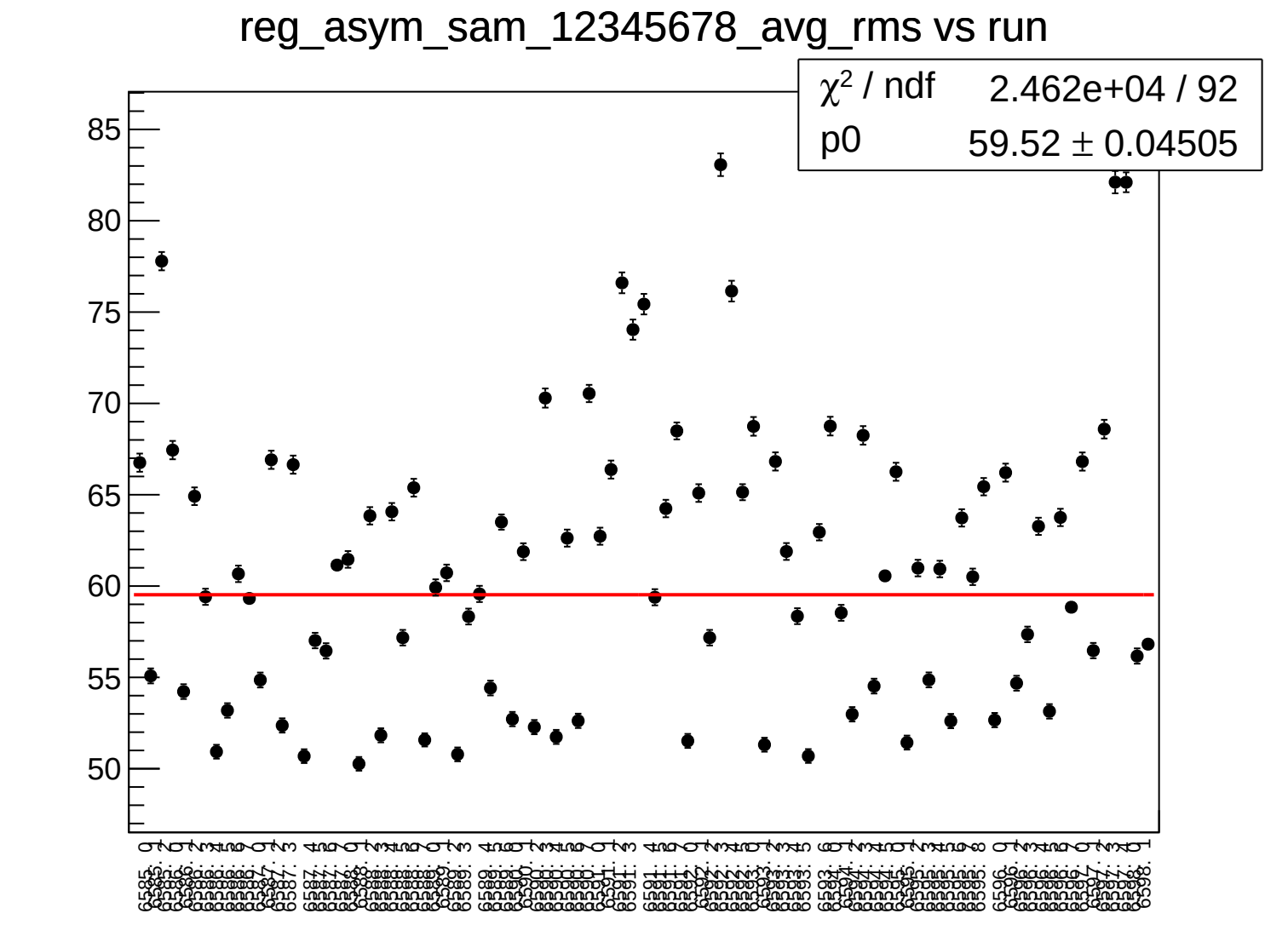

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.462e+04 / 92
p0 16.96 ± 0.01288
35
30
25
20
15

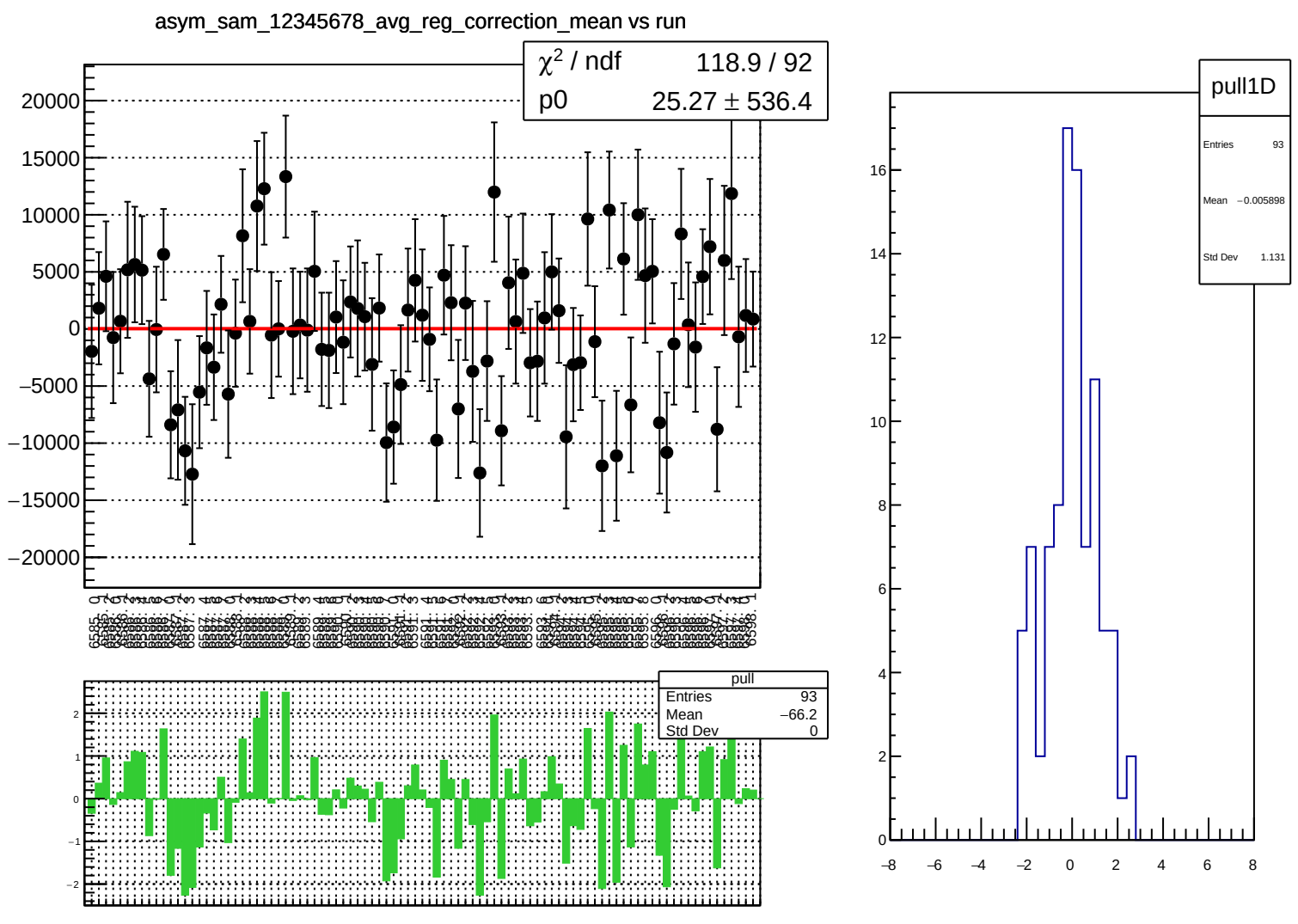

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.92 / 92
p0 8.363e−15 ± 3.182e−15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean 23.51
Std Dev 22.36
2
1
0
−1
−2

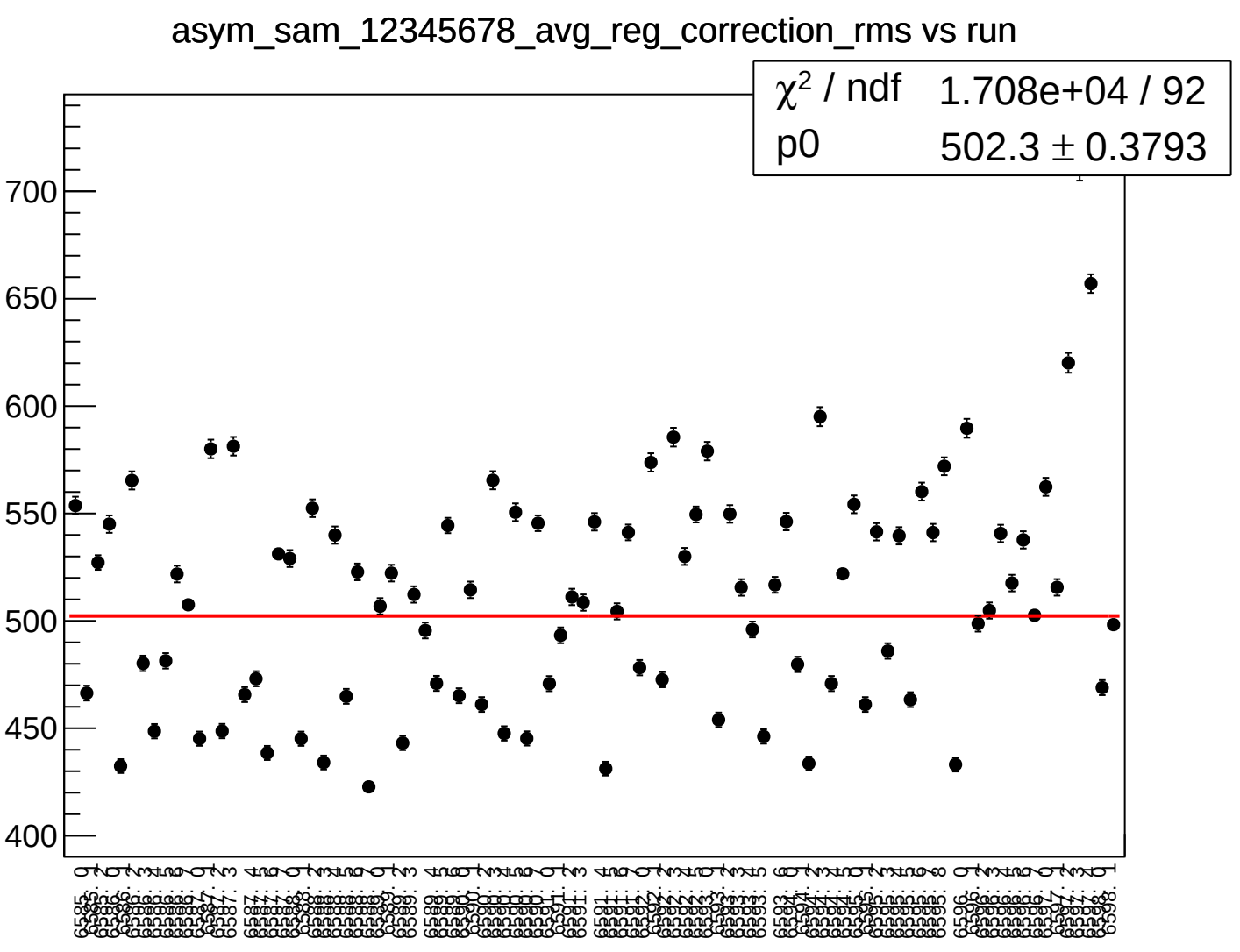

pull1D
Entries 93
Mean 0.0608
Std Dev 0.9192
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

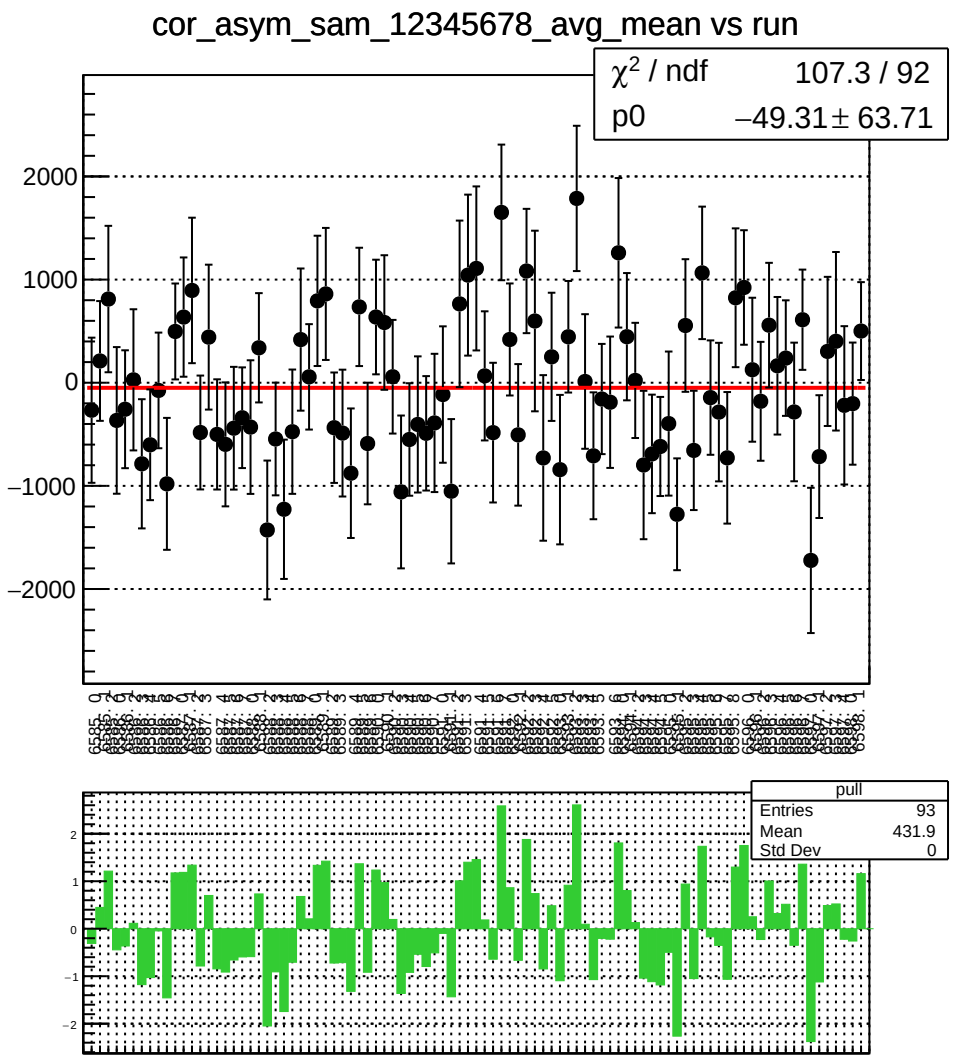

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.014e+05 / 92
p0 2.433e−12 ± 2.25e−15
22
20
18
16
14
12
10
8
6
4
2

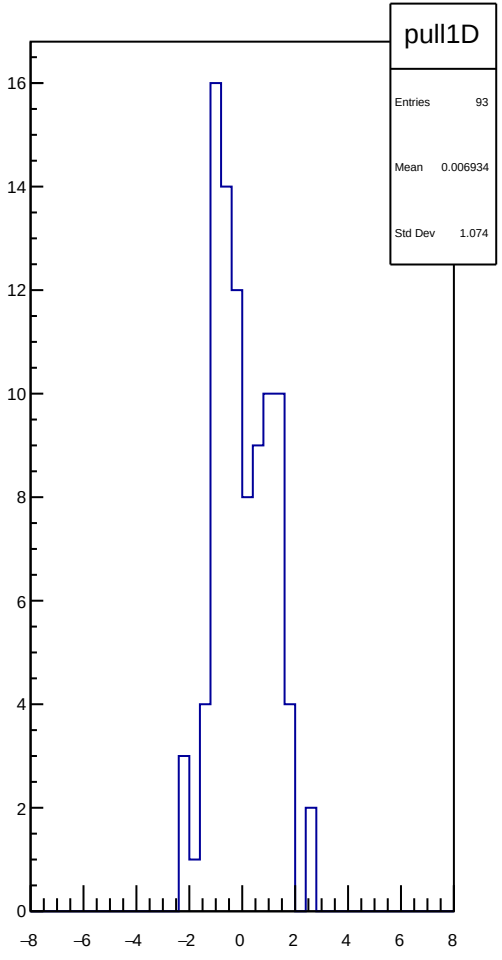

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 107.3 / 92
p0 −49.31 ± 63.71
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 432
Std Dev 0
pull1D
Entries 93
Mean 0.00693
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

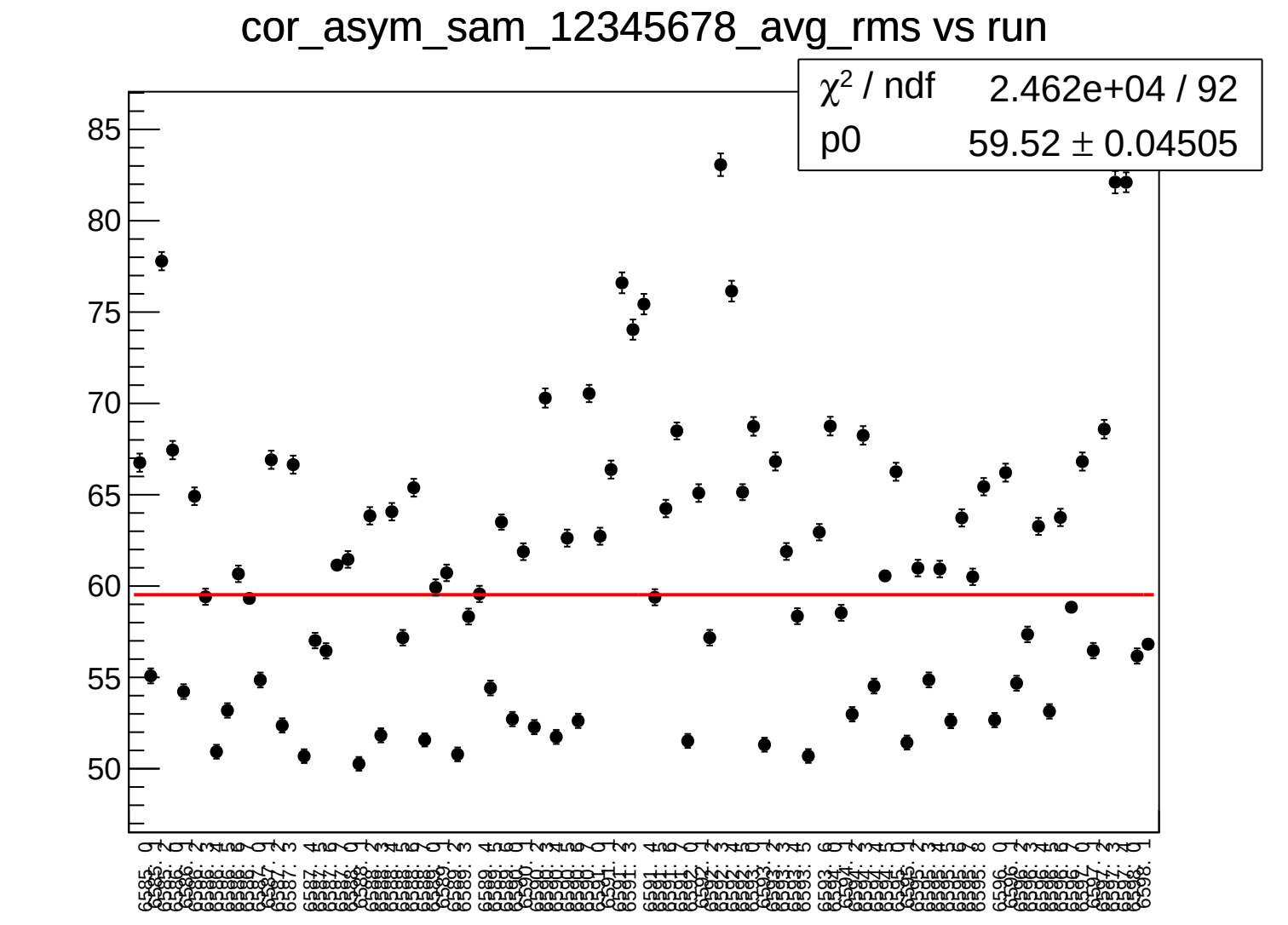

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.462e+04 / 92
p0 59.52 ± 0.04505
85
80
75
70
65
60
55
50

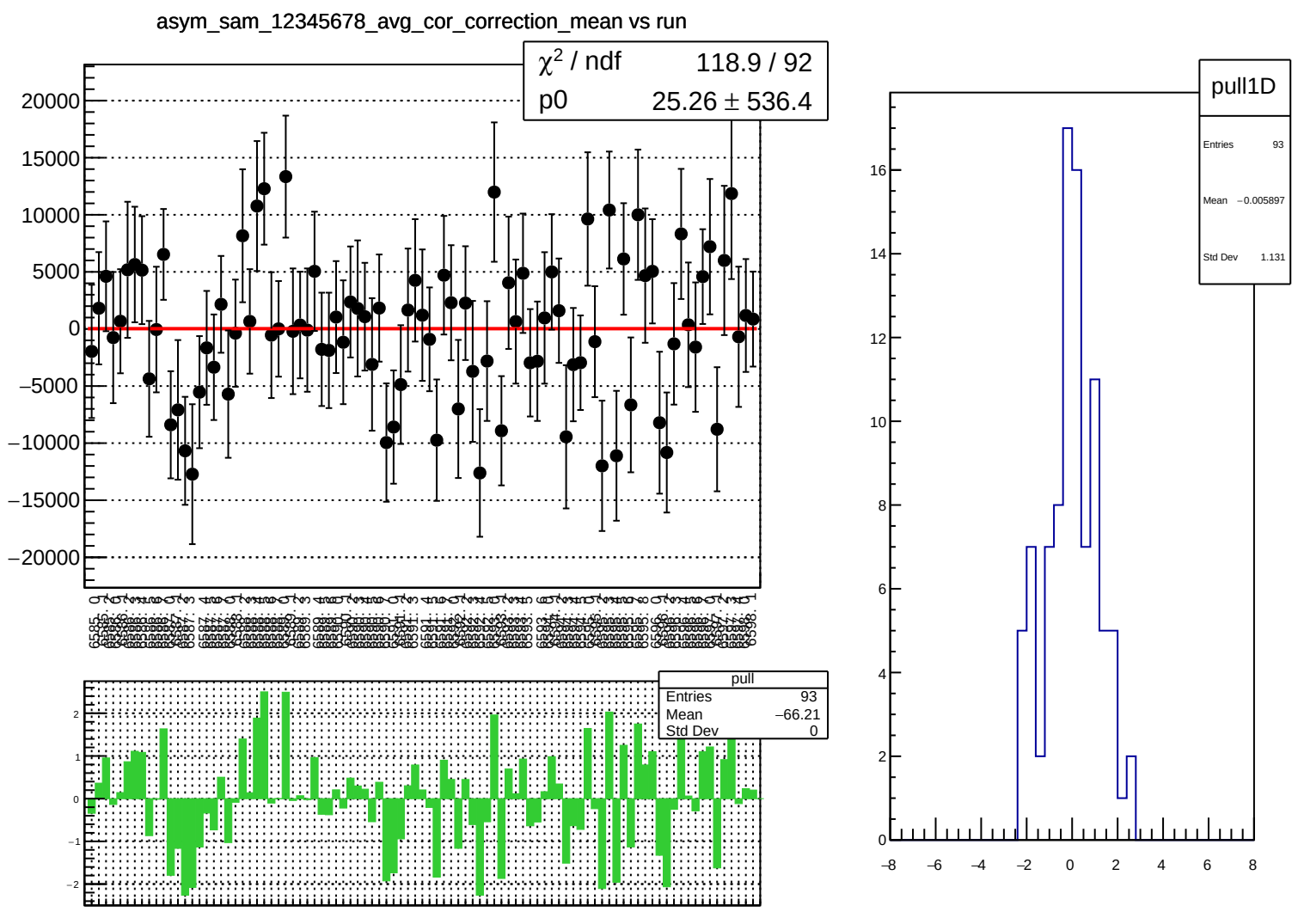

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 118.9 / 92
p0 25.27 ± 536.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −66.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005898
Std Dev 1.131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

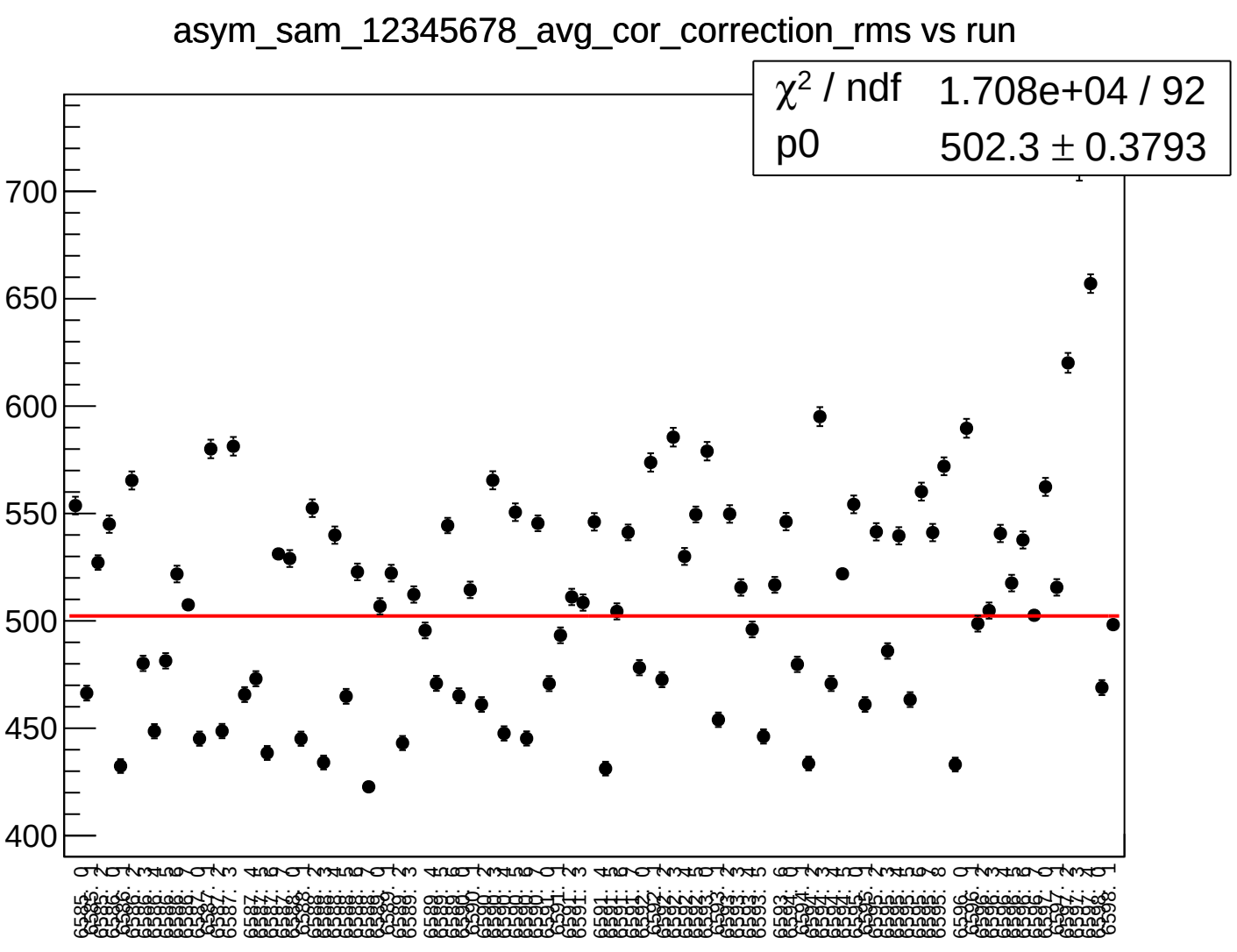

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.708e+04 / 92
p0 502.3 ± 0.3793
700
650
600
550
500
450
400

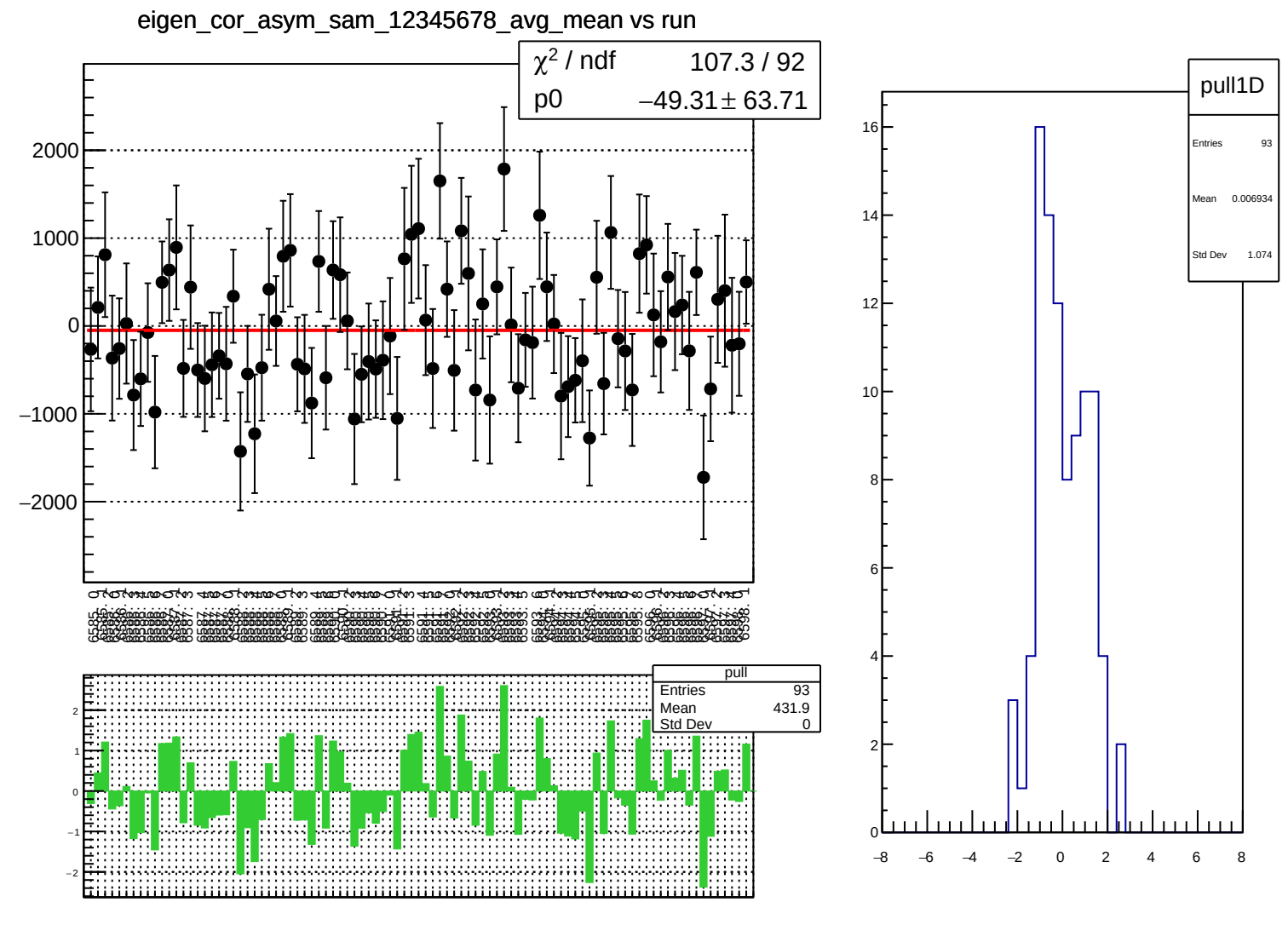

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 107.3 / 92
p0 −49.31 ± 63.71
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 431.9
Std Dev 0
2
1
0
−1
−2

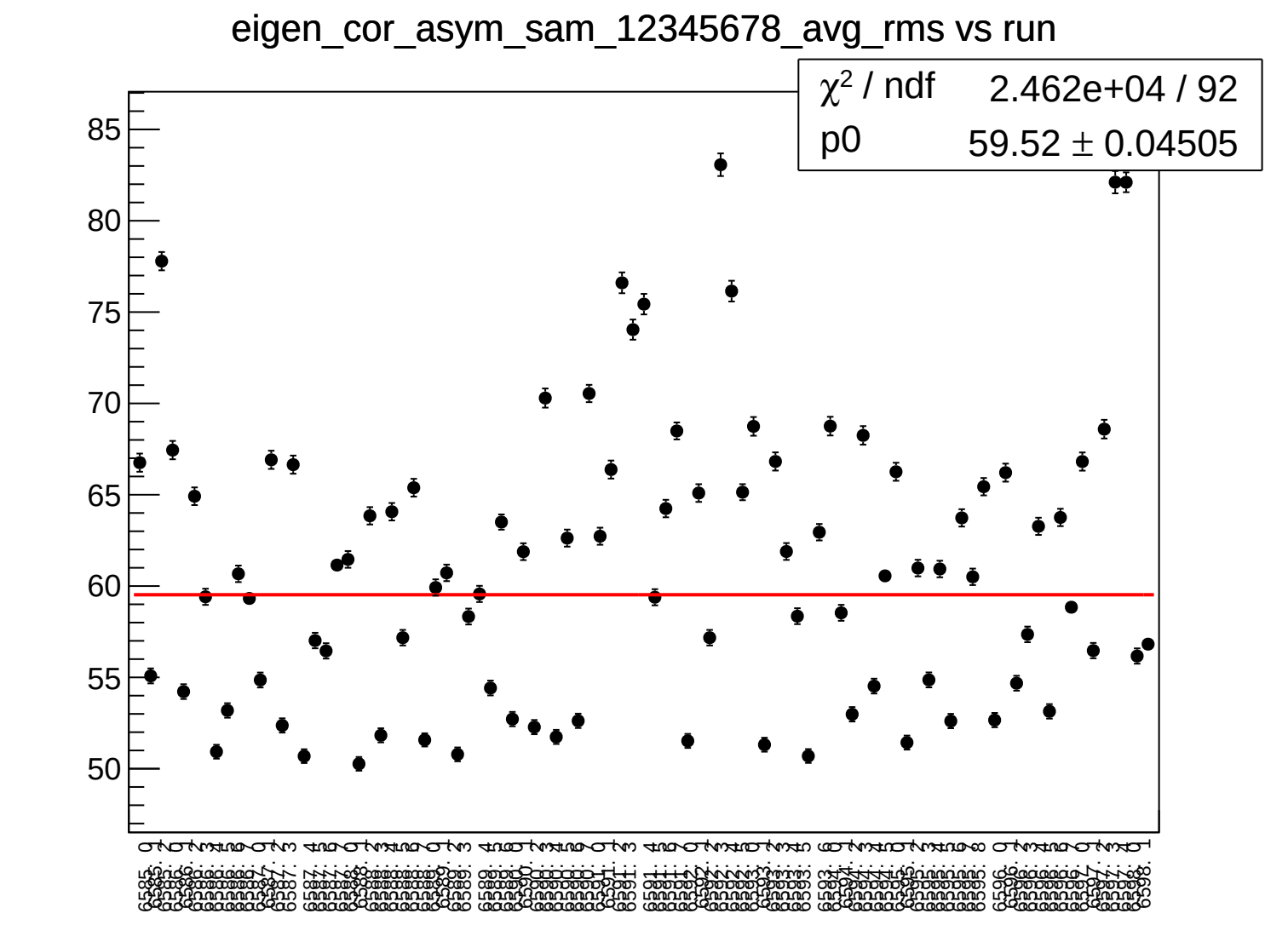

pull1D
Entries 93
Mean 0.006934
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

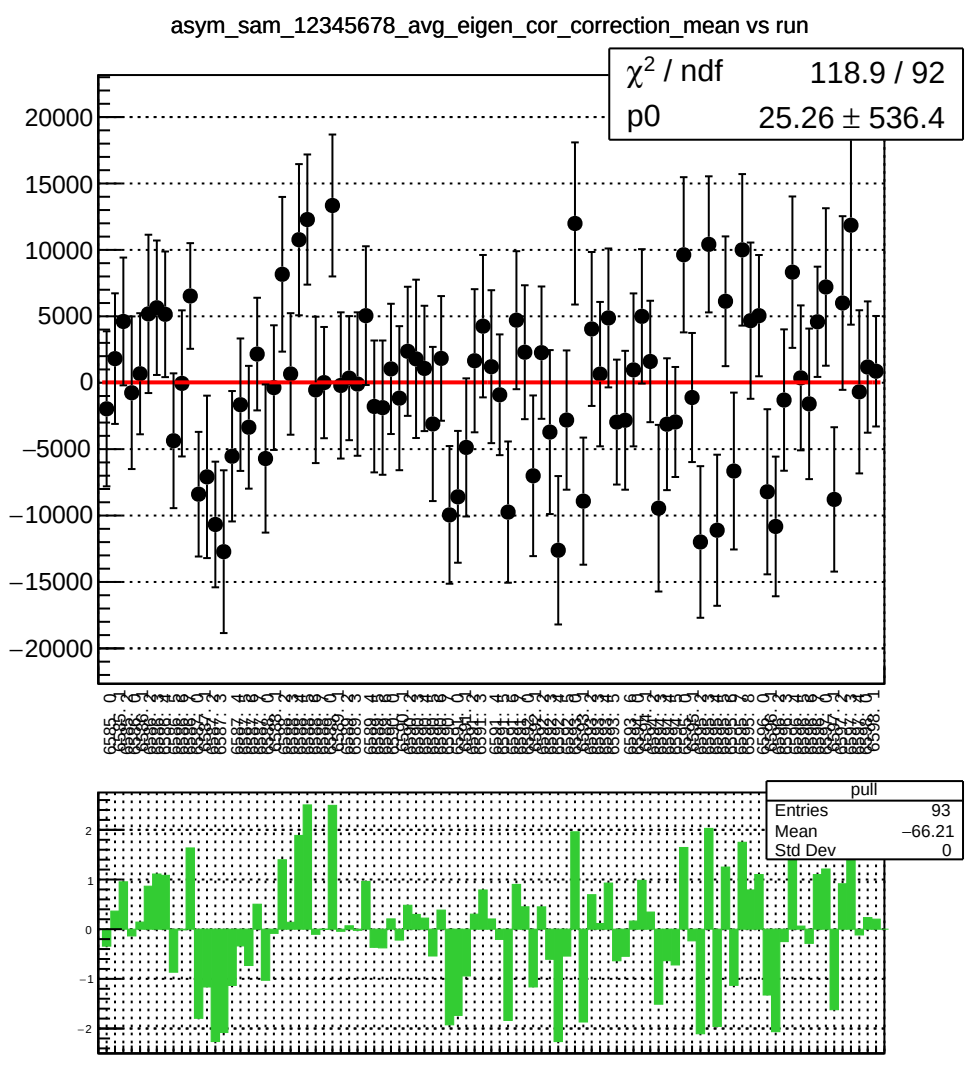

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.462e+04 / 92
p0 59.52 ± 0.04505
85
80
75
70
65
60
55
50

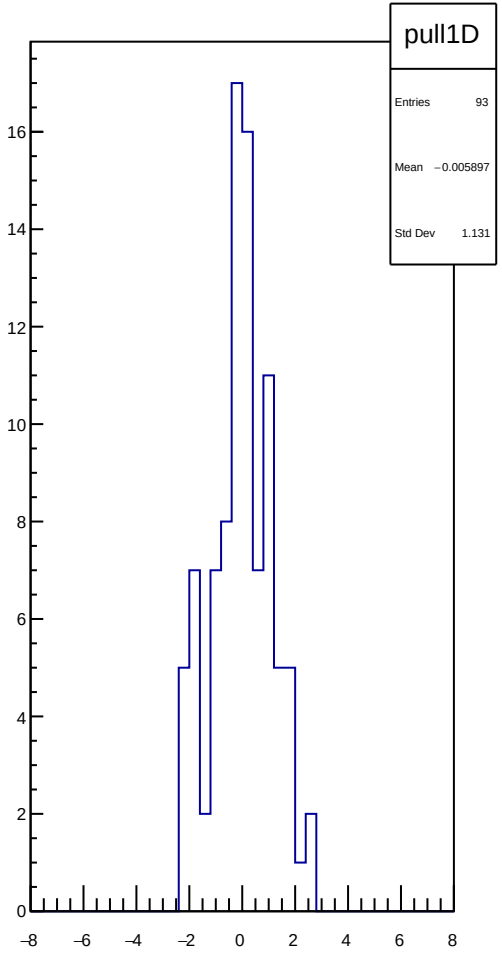

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 118.9 / 92
p0 25.26 ± 536.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −66.21
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005897
Std Dev 1.131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

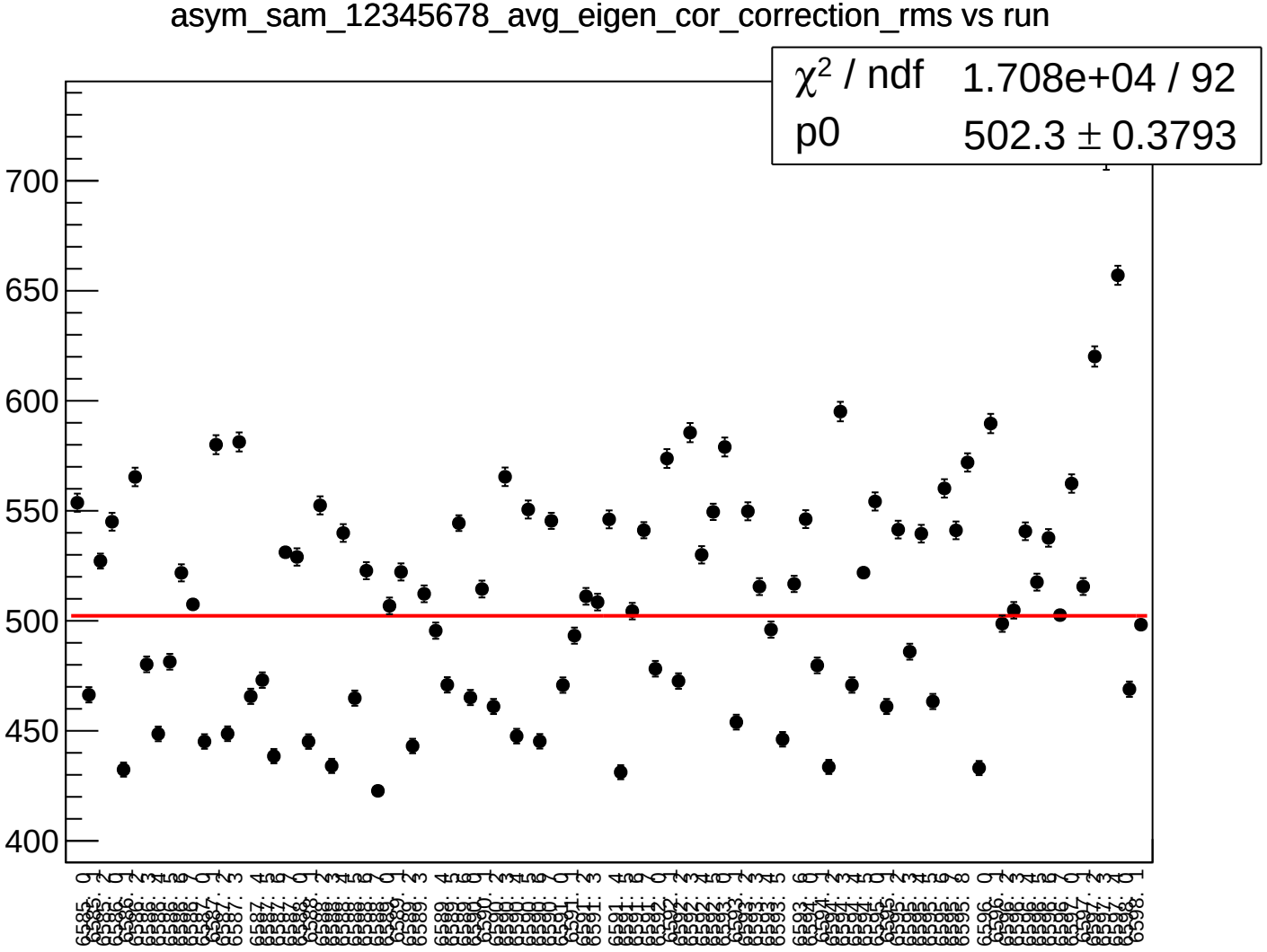

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.708e+04 / 92
p0 502.3 ± 0.3793
700
650
600
550
500
450
400

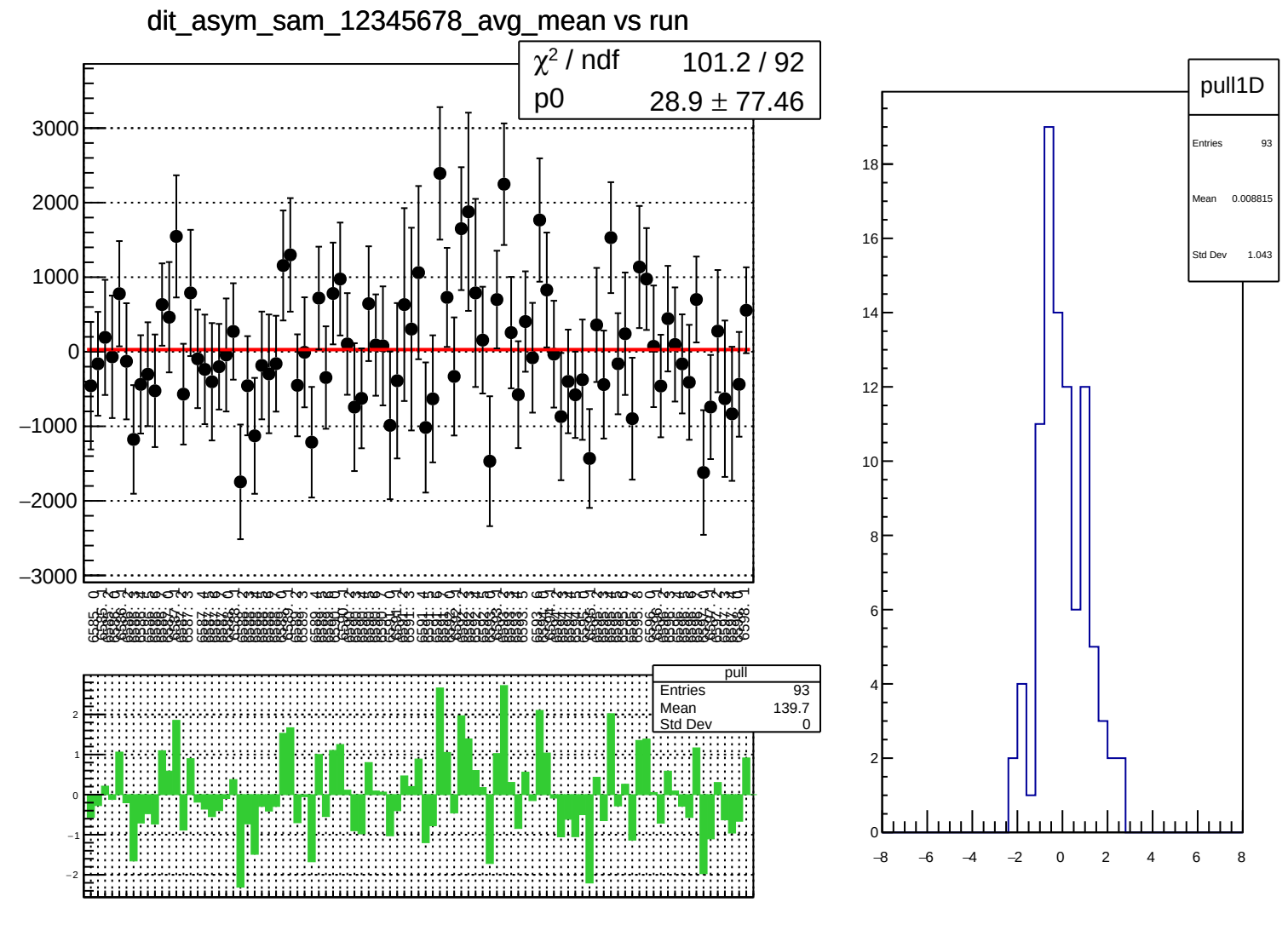

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 107.3 / 92
p0 −49.31 ± 63.71
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 431.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006934
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

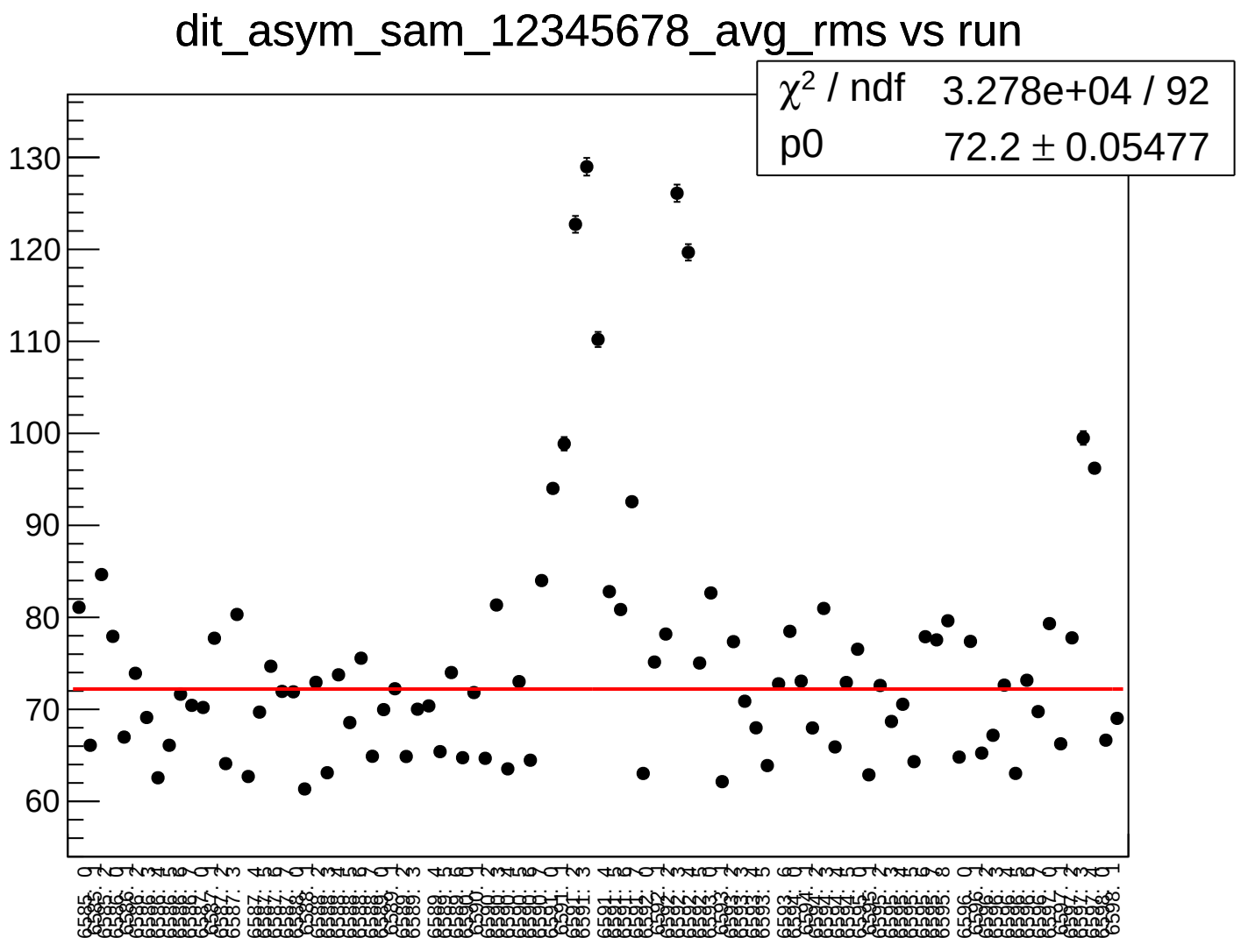

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.462e+04 / 92
p0 59.52 ± 0.04505
85
80
75
70
65
60
55
50

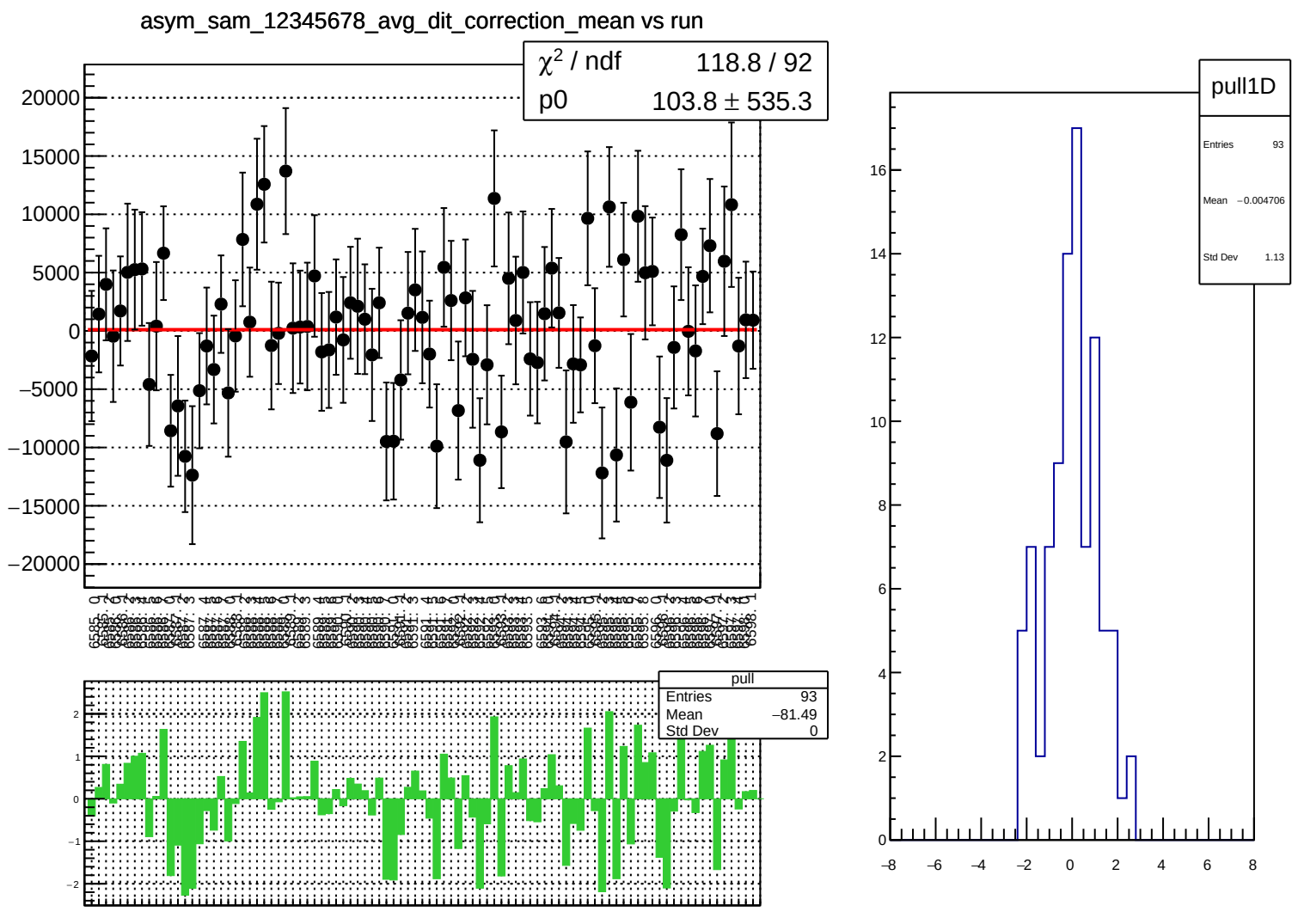

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 118.9 / 92
p0 25.26 ± 536.4
pull
Entries 93
Mean −66.21
Std Dev 0

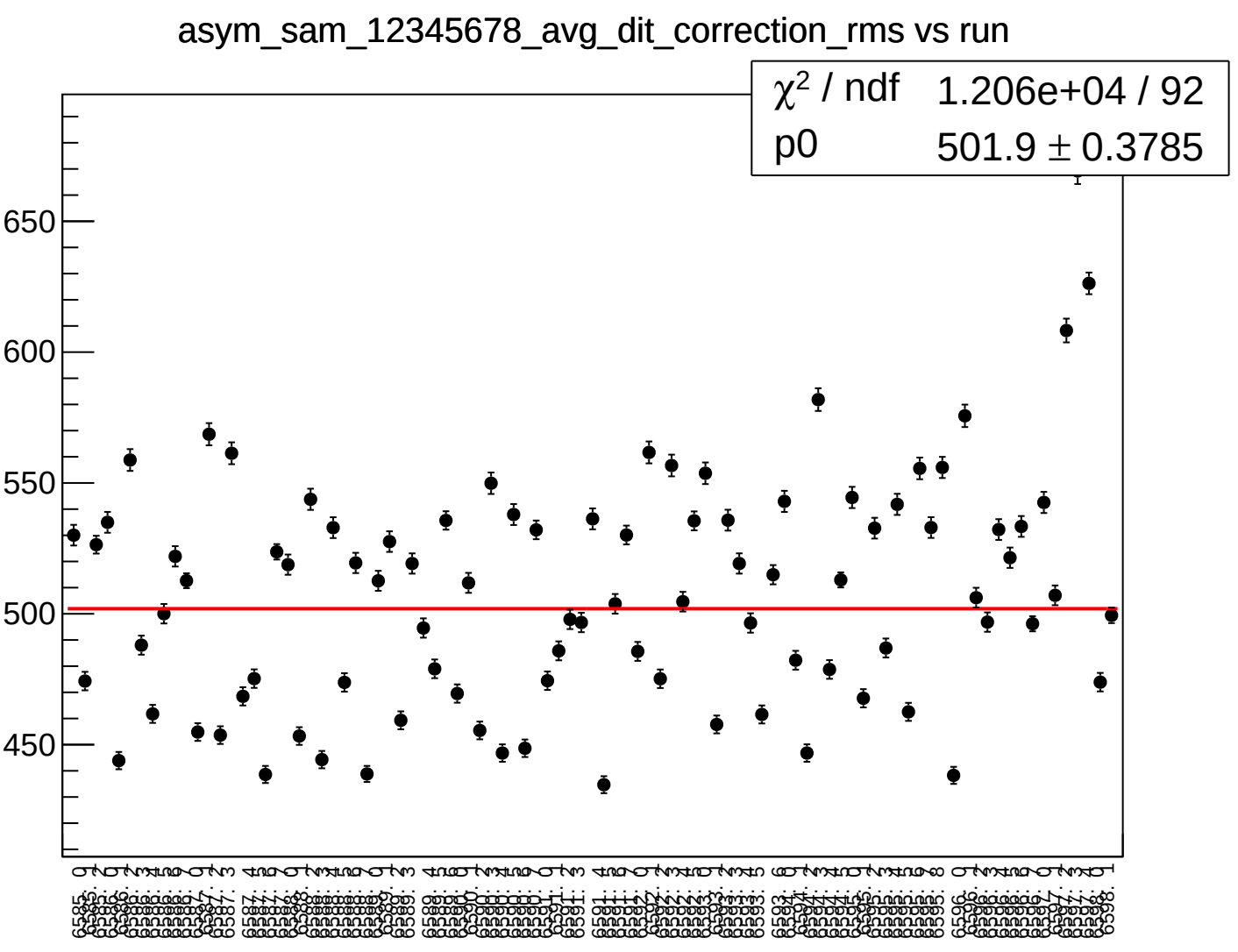

pull1D
Entries 93
Mean −0.005897
Std Dev 1.131

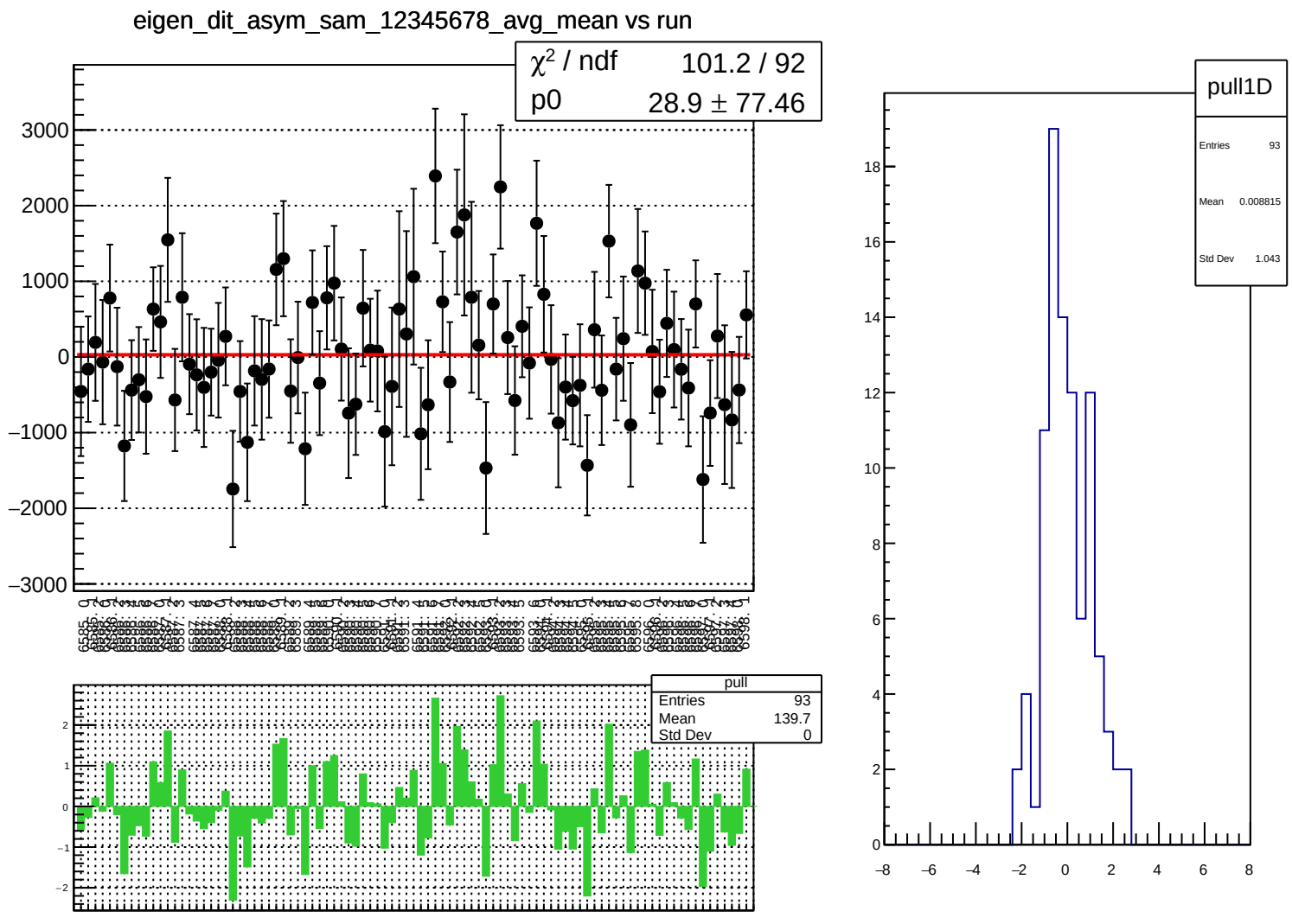

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.708e+04 / 92
p0 502.3 ± 0.3793
700
650
600
550
500
450
400

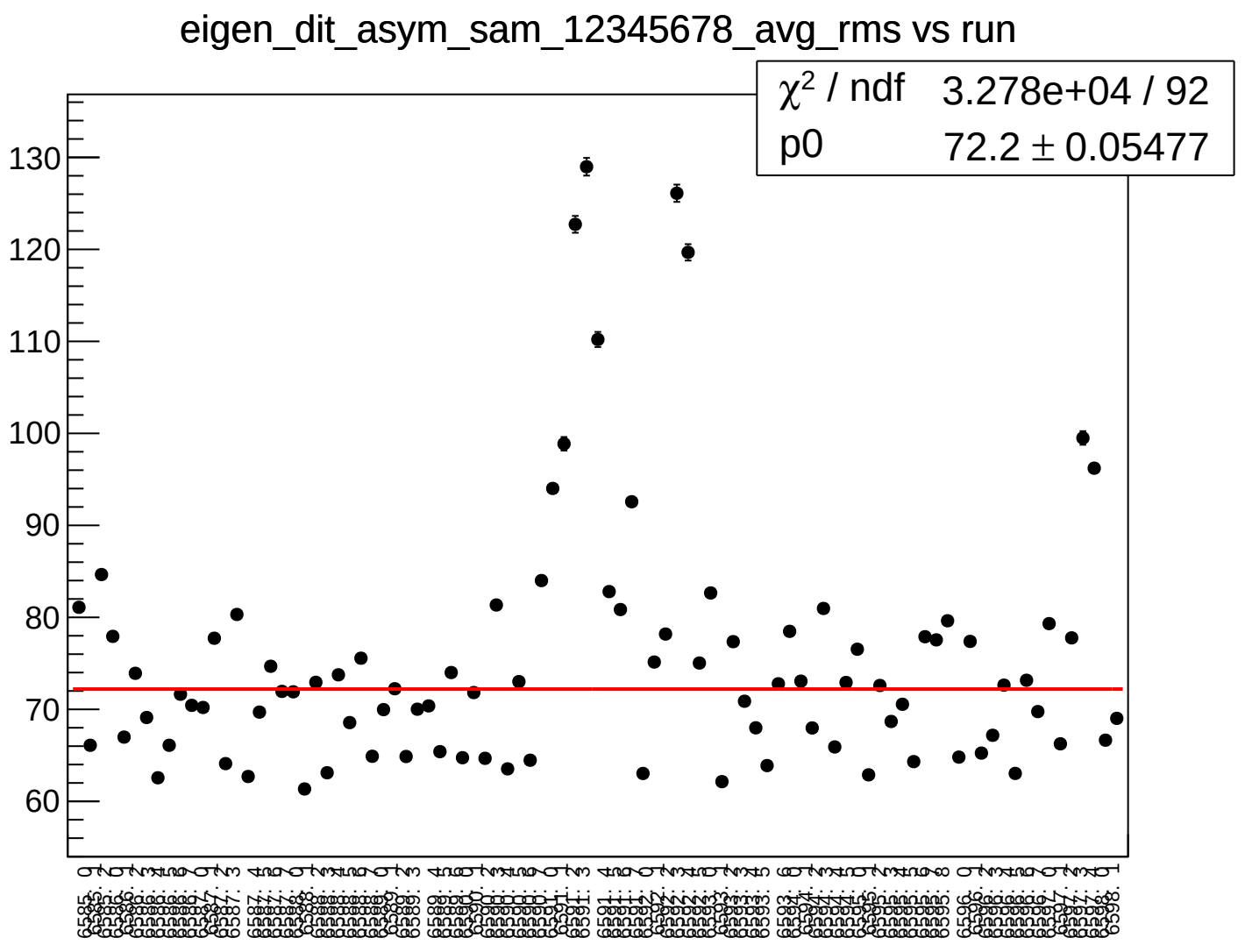

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 101.2 / 92
p0 28.9 ± 77.46
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 139.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.008815
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

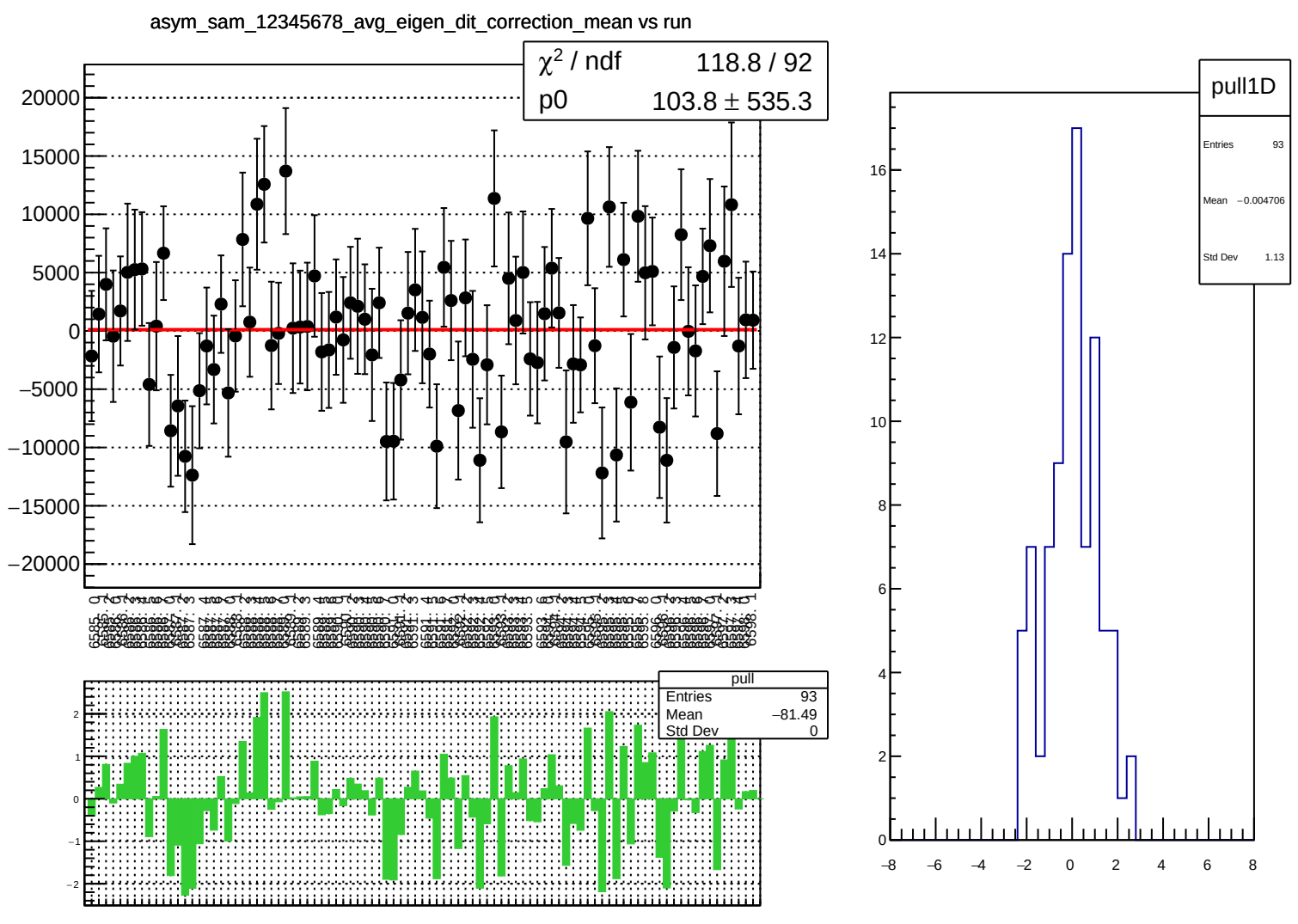

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.278e+04 / 92
p0 72.2 ± 0.05477
130
120
110
100
90
80
70
60

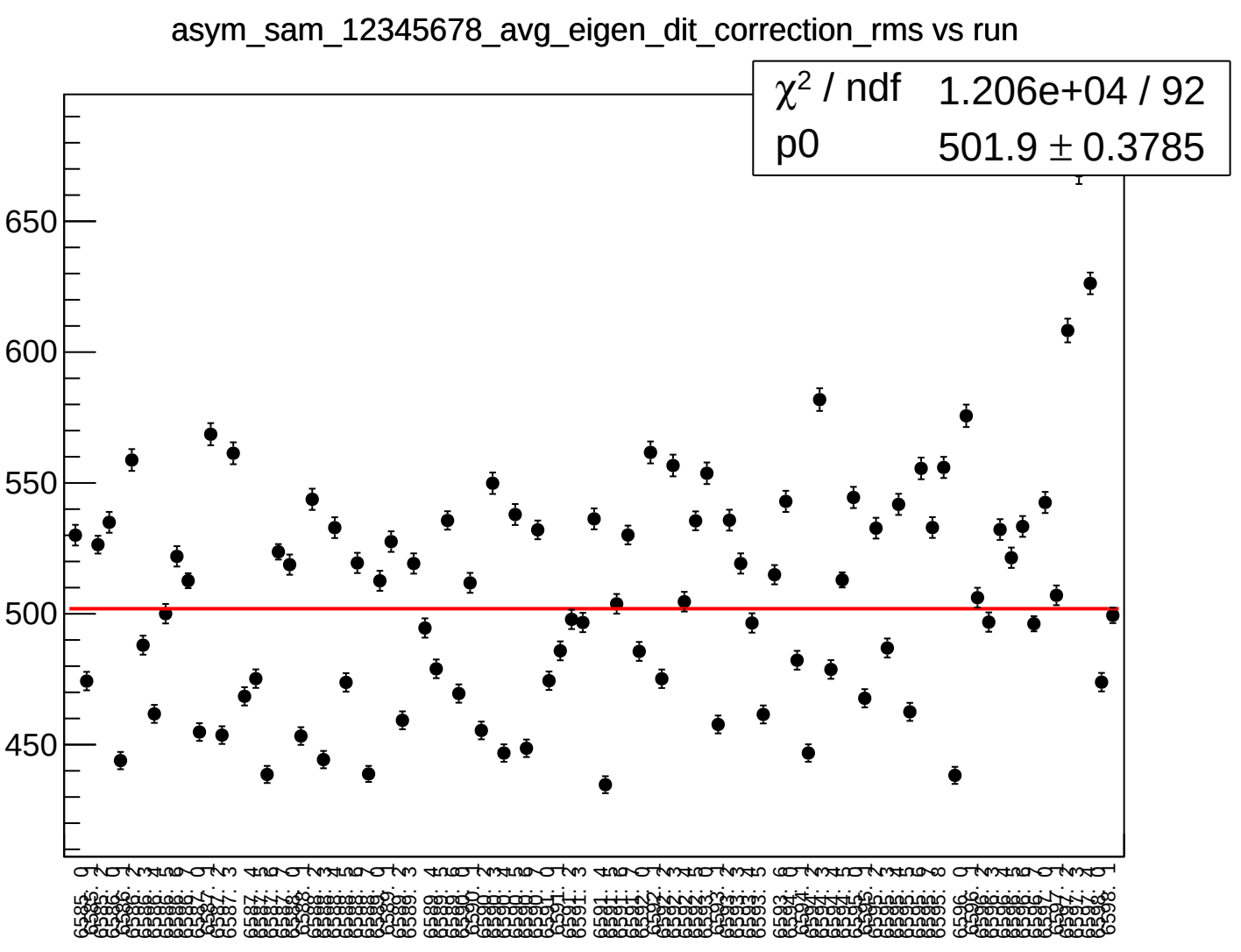

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 118.8 / 92
p0 103.8 ± 535.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −81.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.004706
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

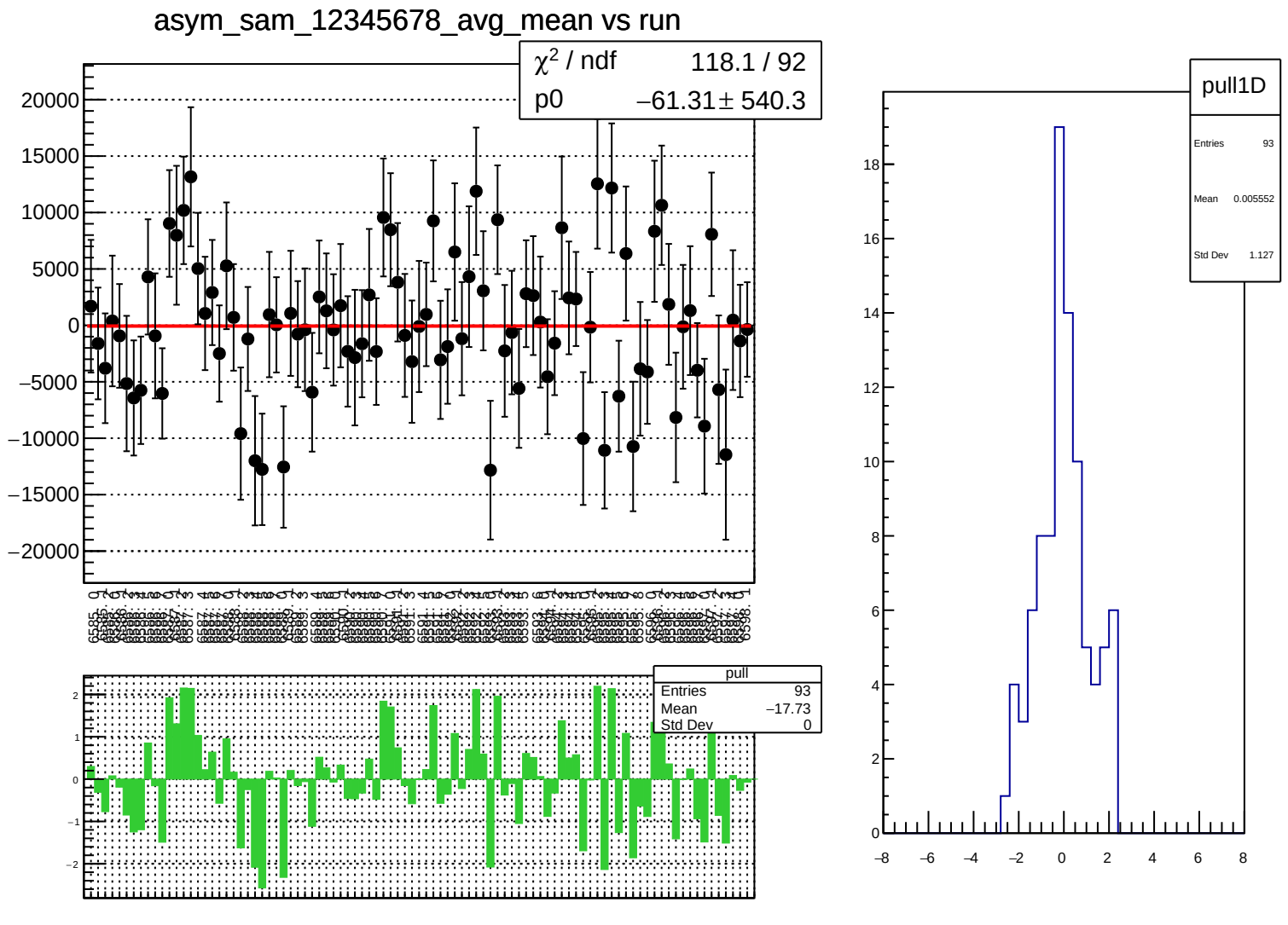

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.206e+04 / 92
p0 501.9 ± 0.3785
650
600
550
500
450

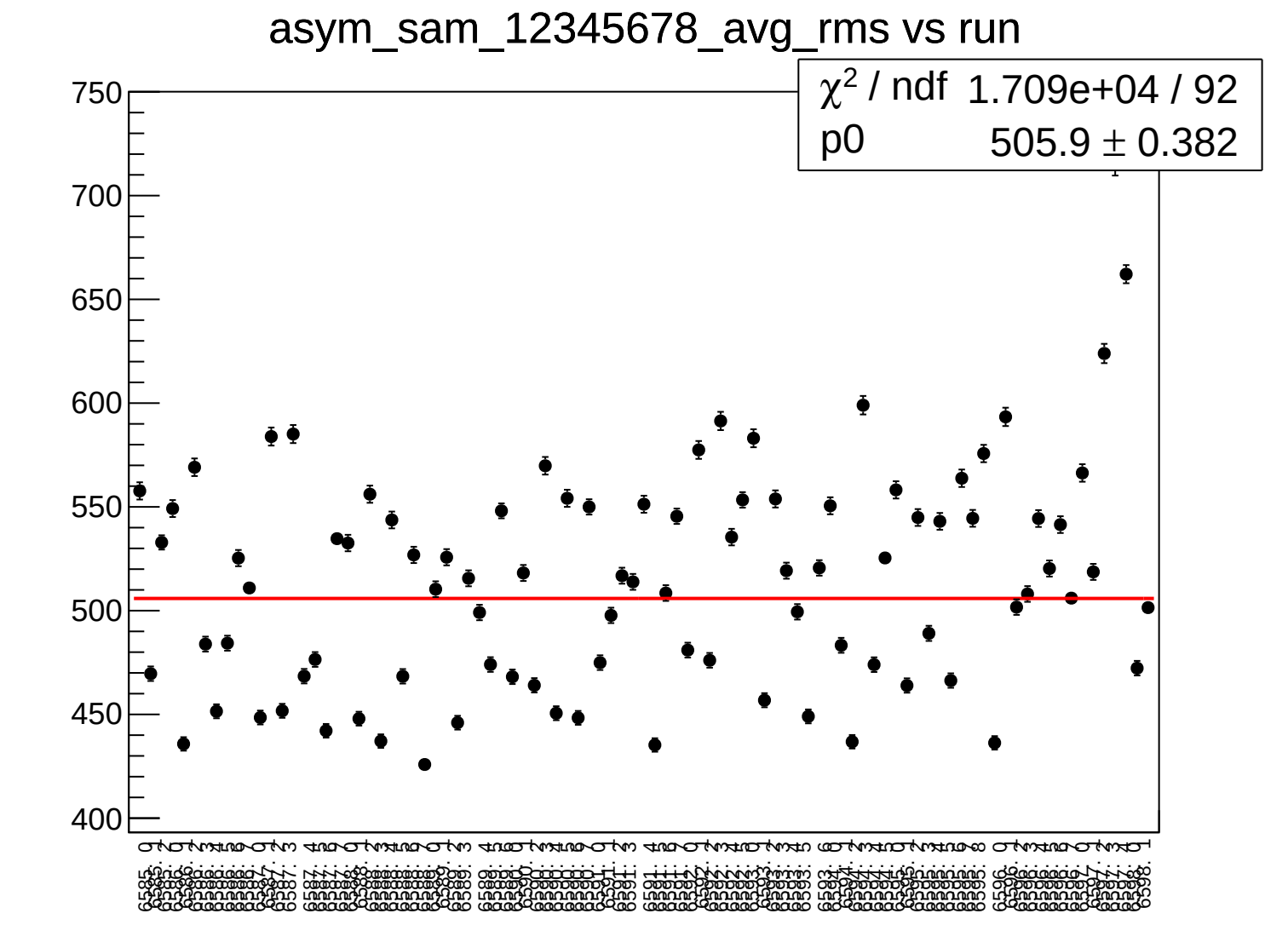

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 101.2 / 92
p0 28.9 ± 77.46
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 139.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.008815
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

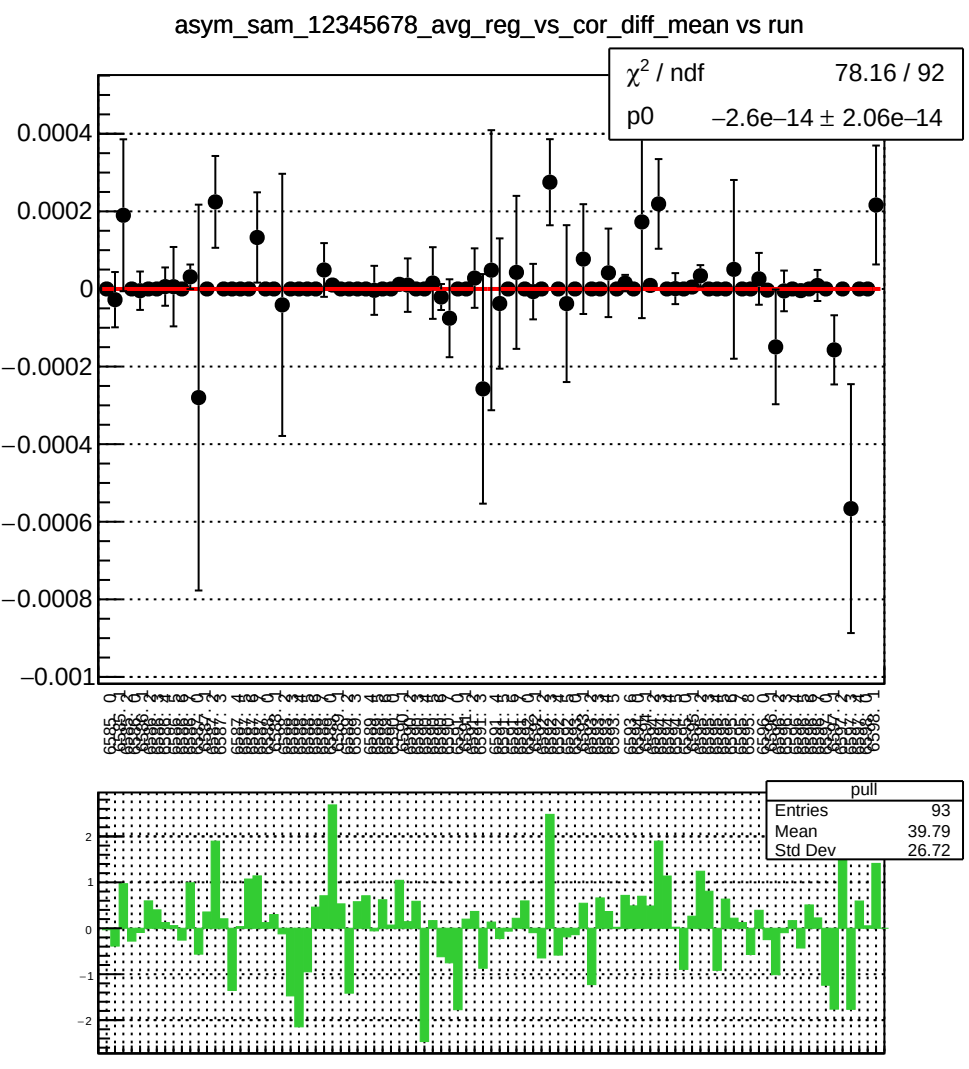

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.278e+04 / 92
p0 72.2 ± 0.05477
130
120
110
100
90
80
70
60

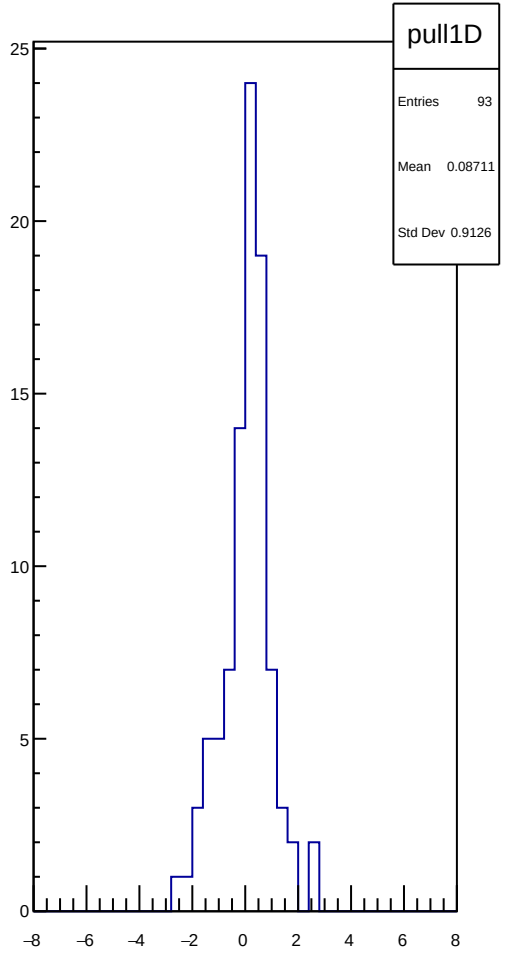

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 118.8 / 92
p0 103.8 ± 535.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −81.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.004706
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

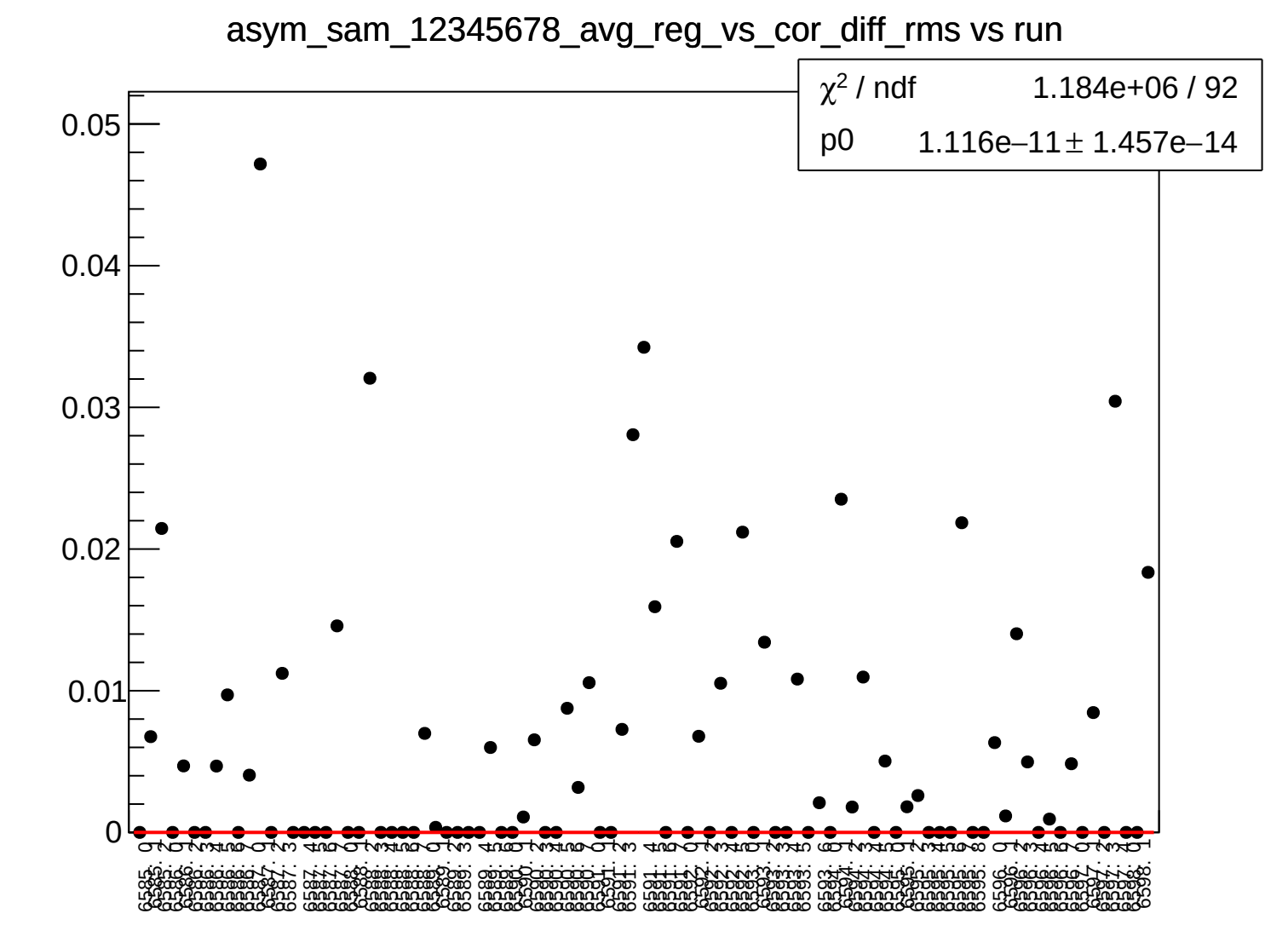

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.206e+04 / 92
p0 501.9 ± 0.3785
650
600
550
500
450

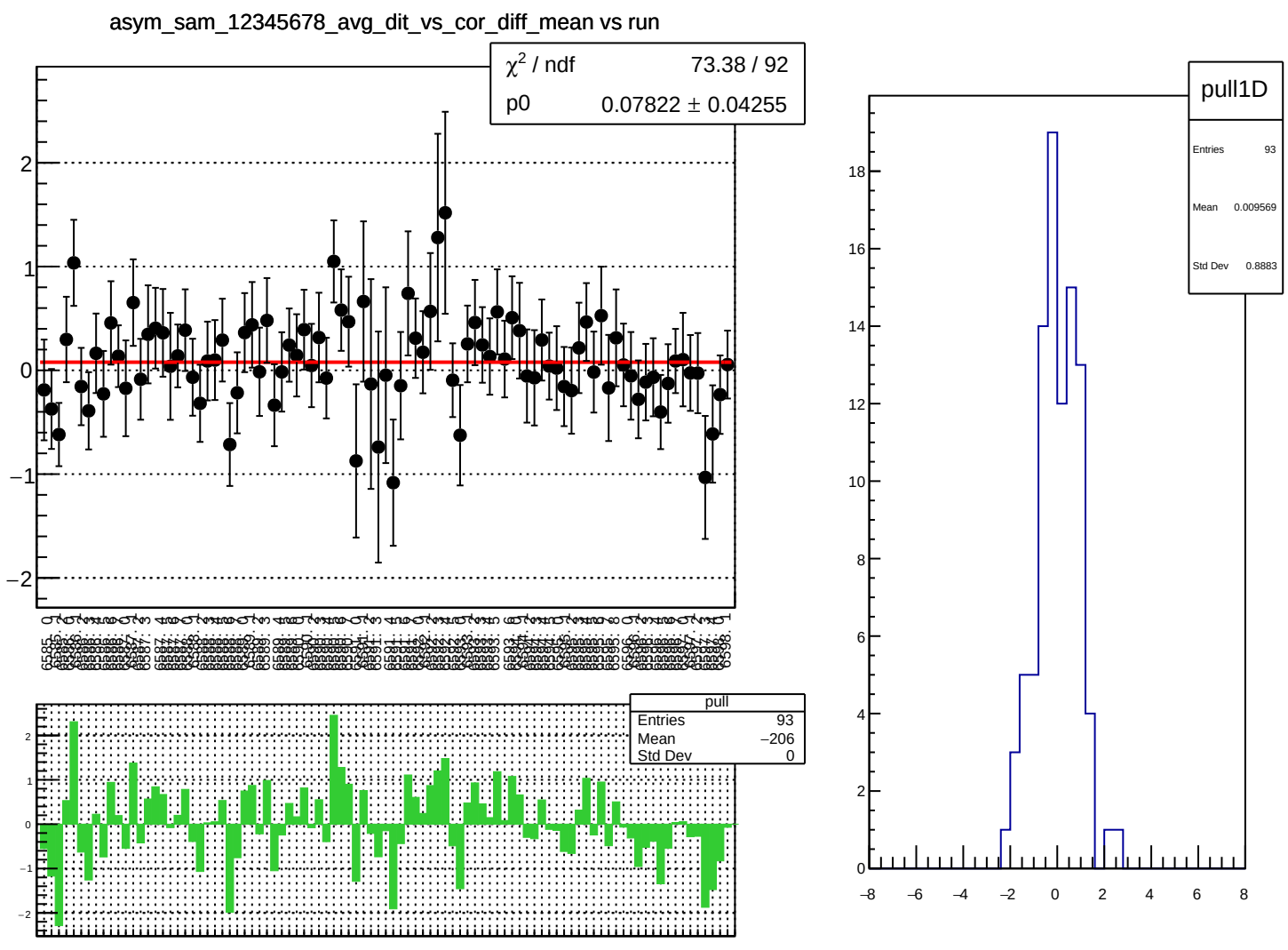

asym_sam_12345678_avg_mean vs run
χ² / ndf 118.1 / 92
p0 −61.31 ± 540.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −17.73
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005552
Std Dev 1.127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

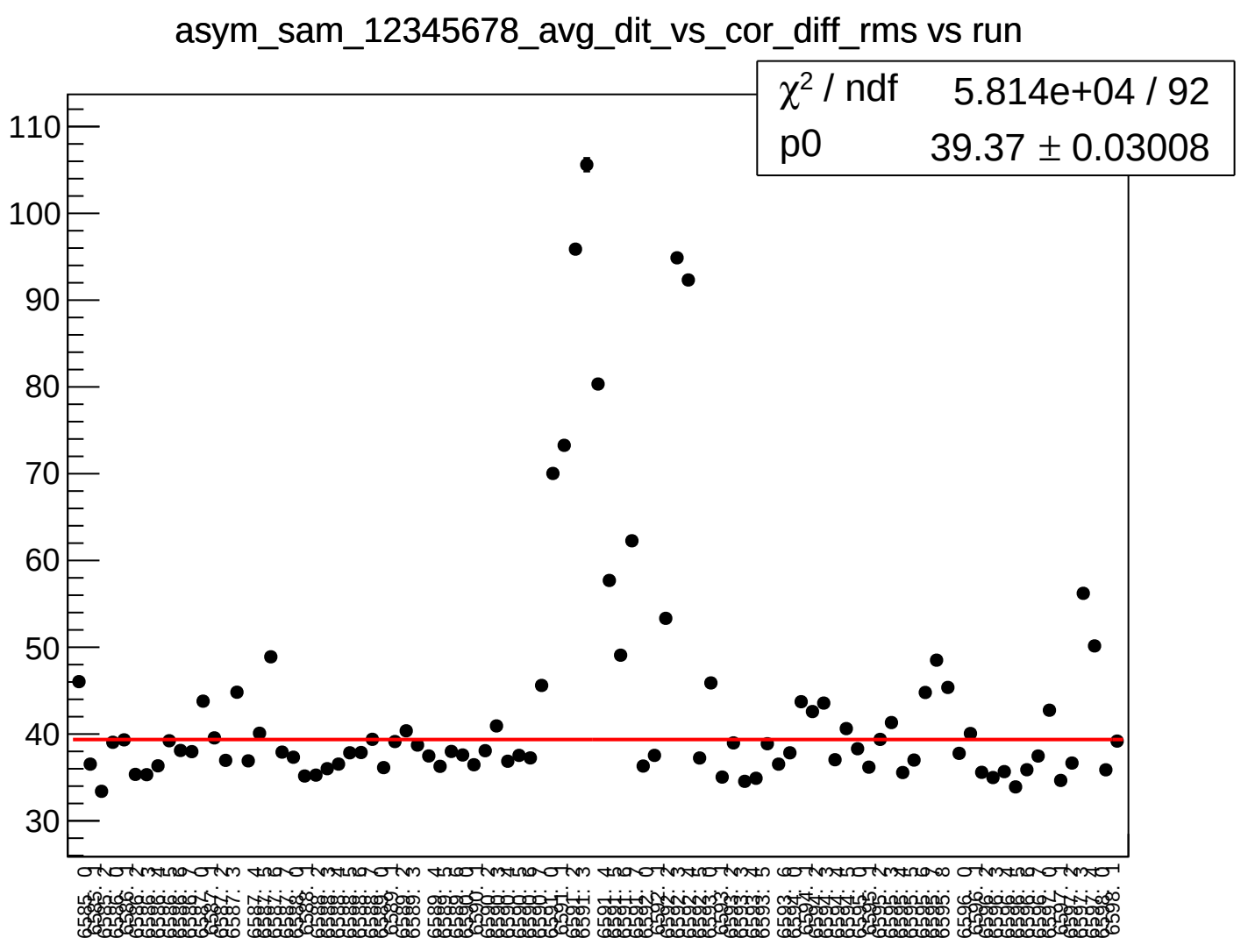

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.709e+04 / 92
p0 505.9 ± 0.382
750
700
650
600
550
500
450
400

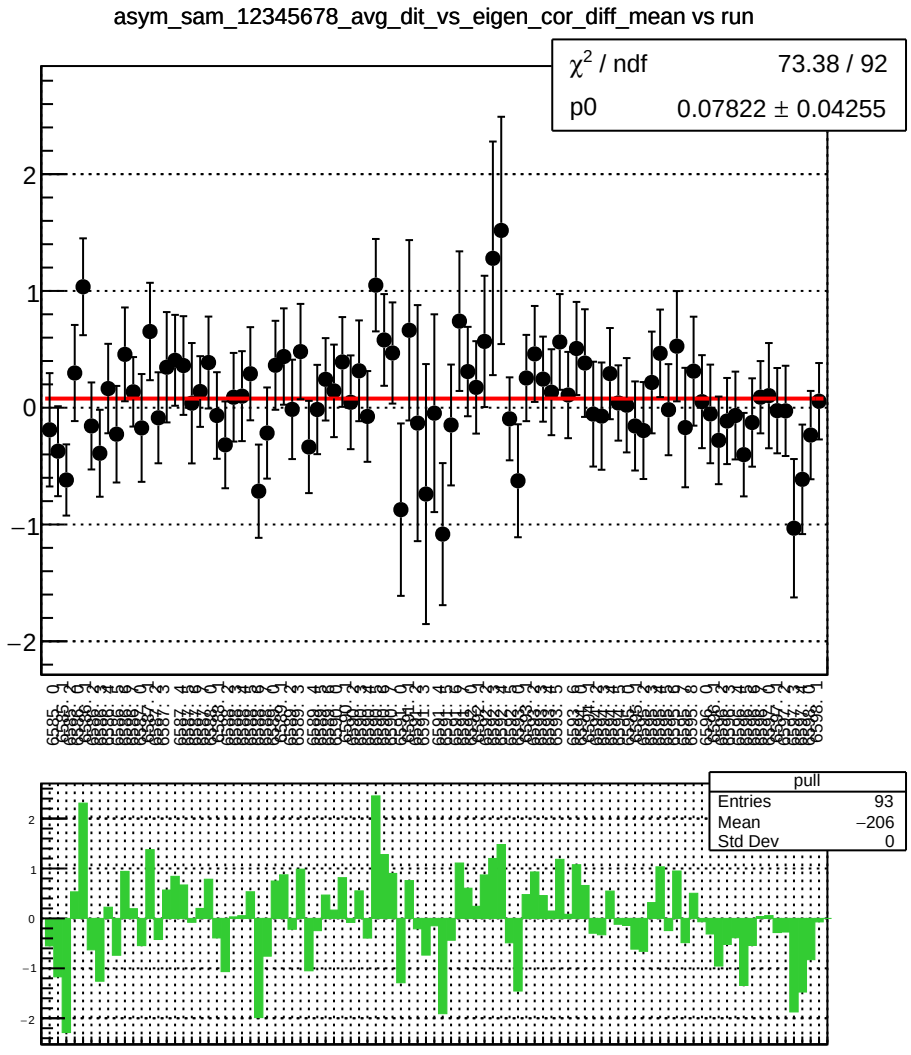

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.16 / 92
p0 −2.6e−14 ± 2.06e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 93
Mean 39.79
Std Dev 26.72
2
1
0
−1
−2

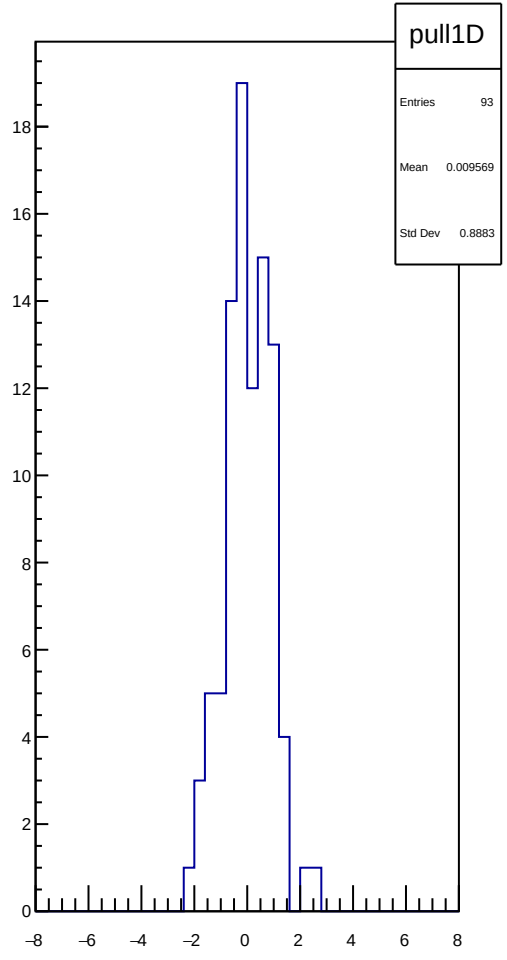

pull1D
Entries 93
Mean 0.08711
Std Dev 0.9126
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

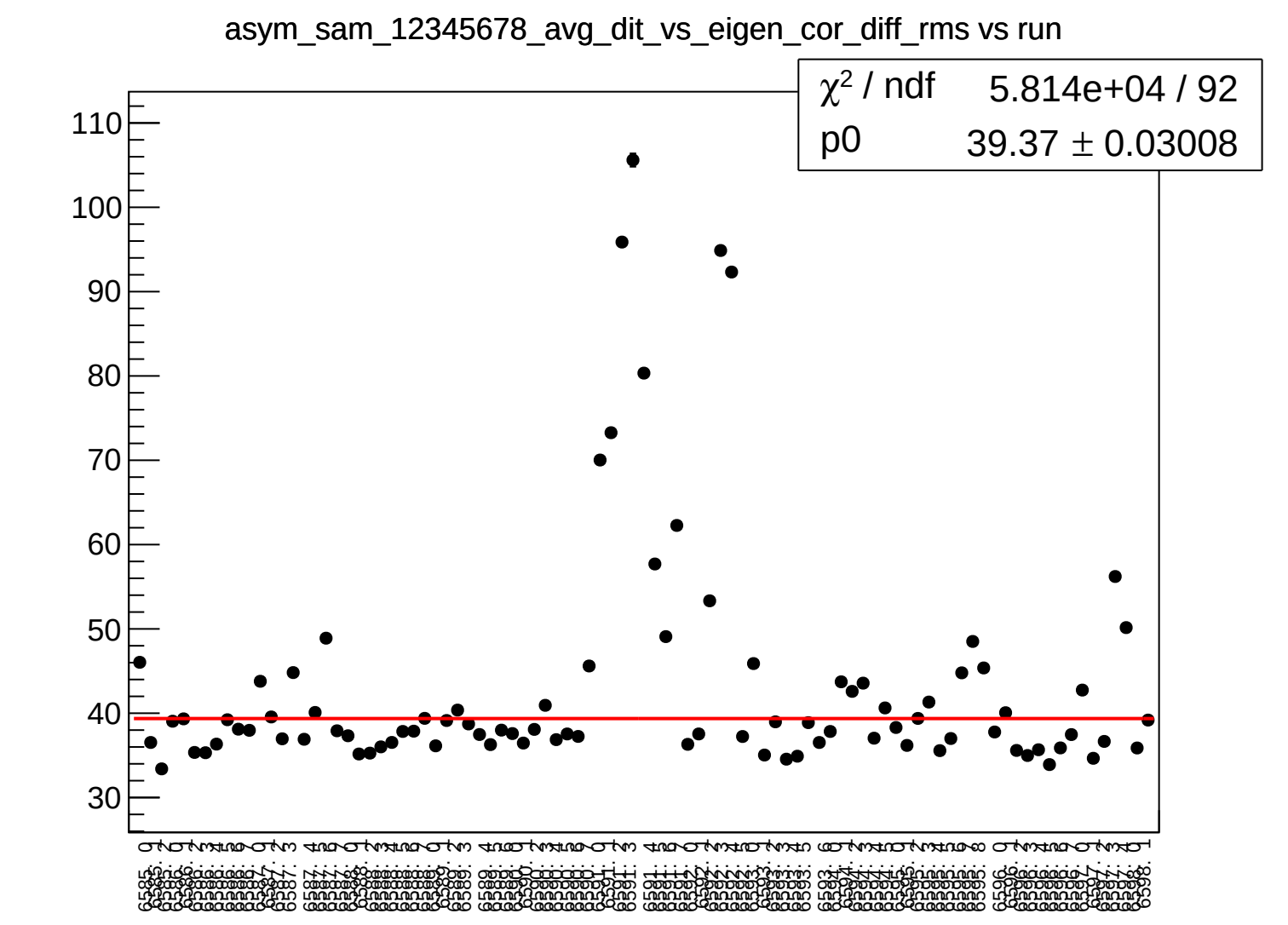

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.184e+06 / 92
p0 1.116e−11 ± 1.457e−14
0.05
0.04
0.03
0.02
0.01
0

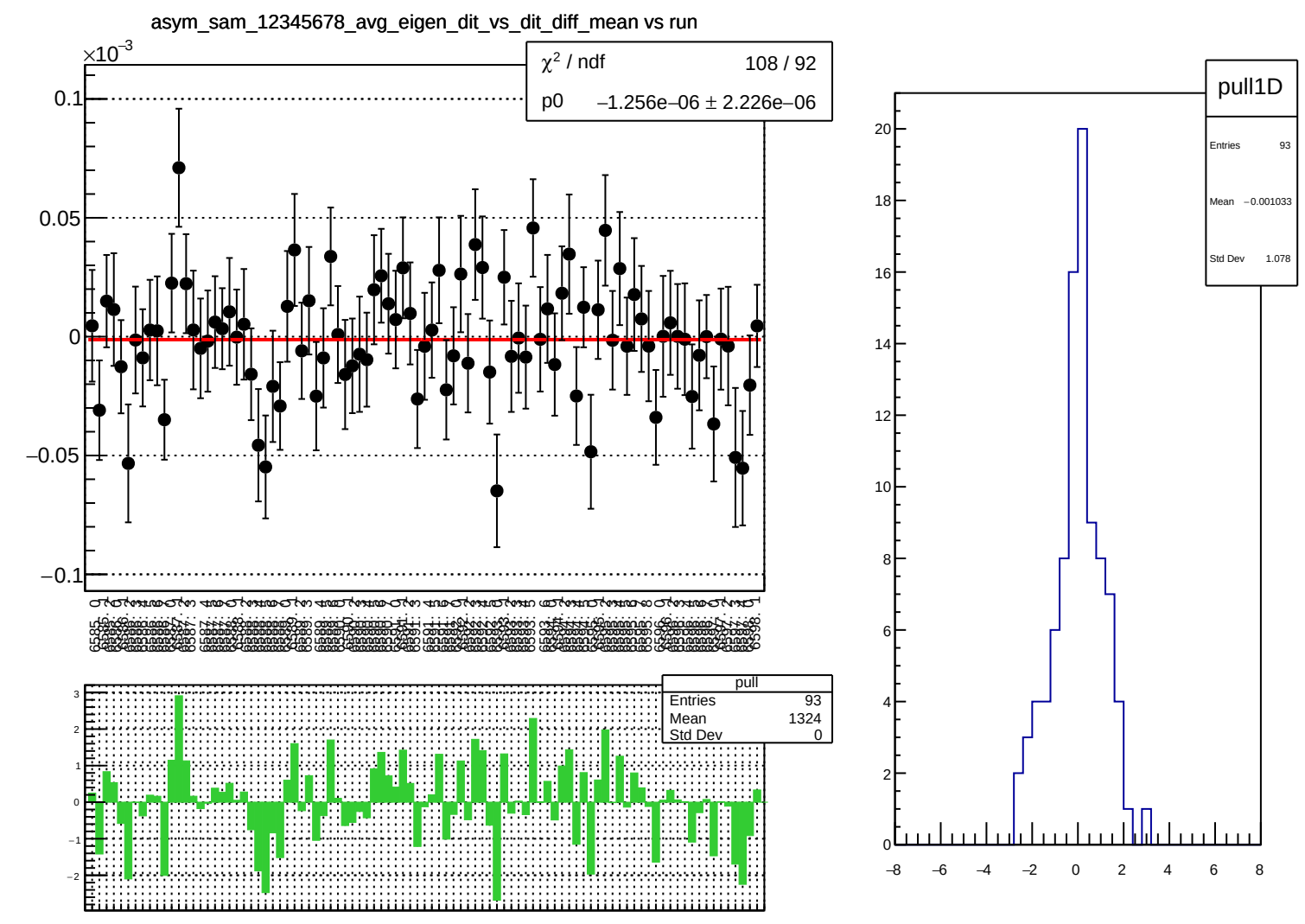

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.38 / 92
p0 0.07822 ± 0.04255
pull
Entries 93
Mean −206
Std Dev 0
pull1D
Entries 93
Mean 0.009569
Std Dev 0.8883

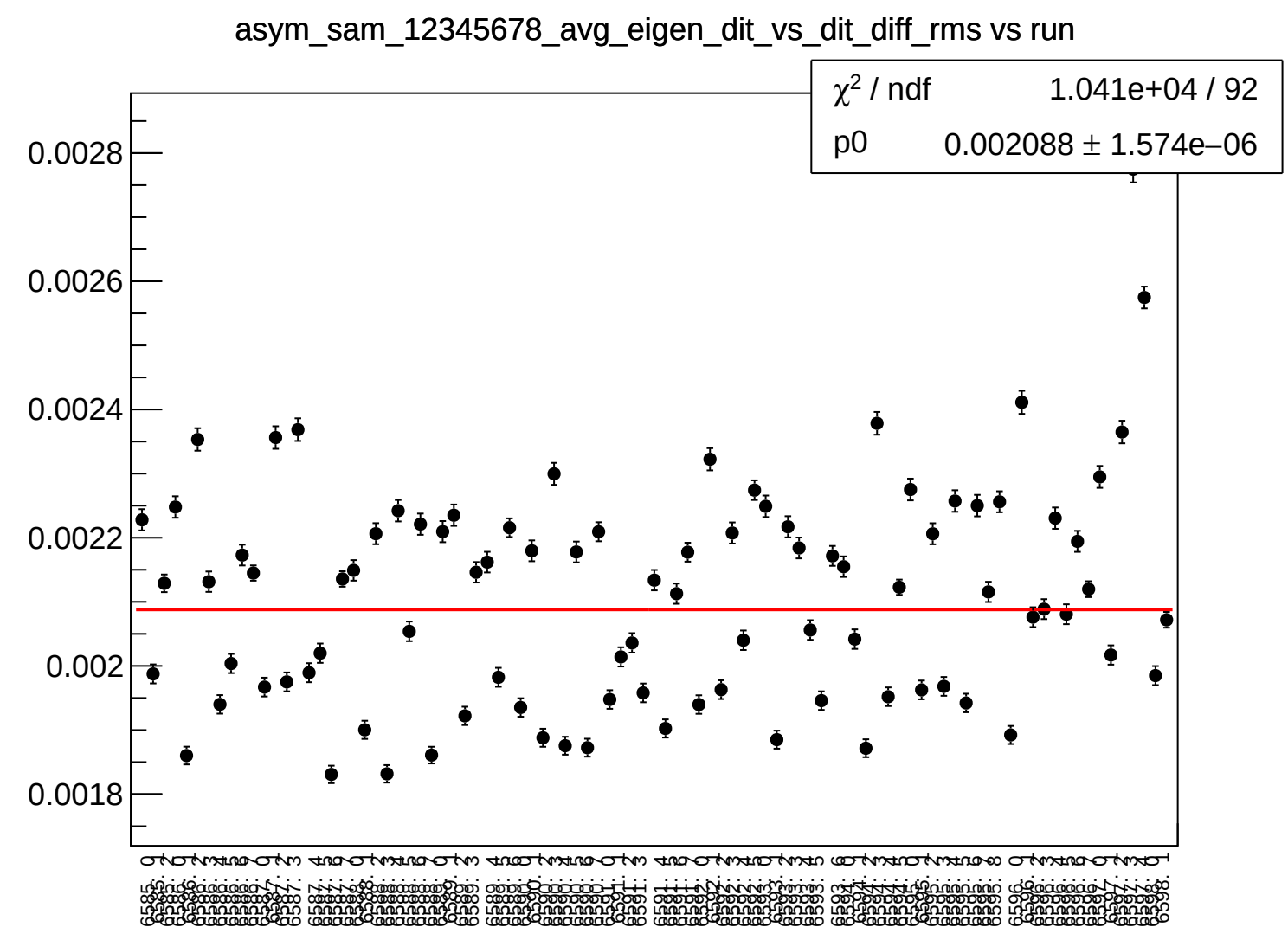

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.814e+04 / 92
p0 39.37 ± 0.03008
110
100
90
80
70
60
50
40
30

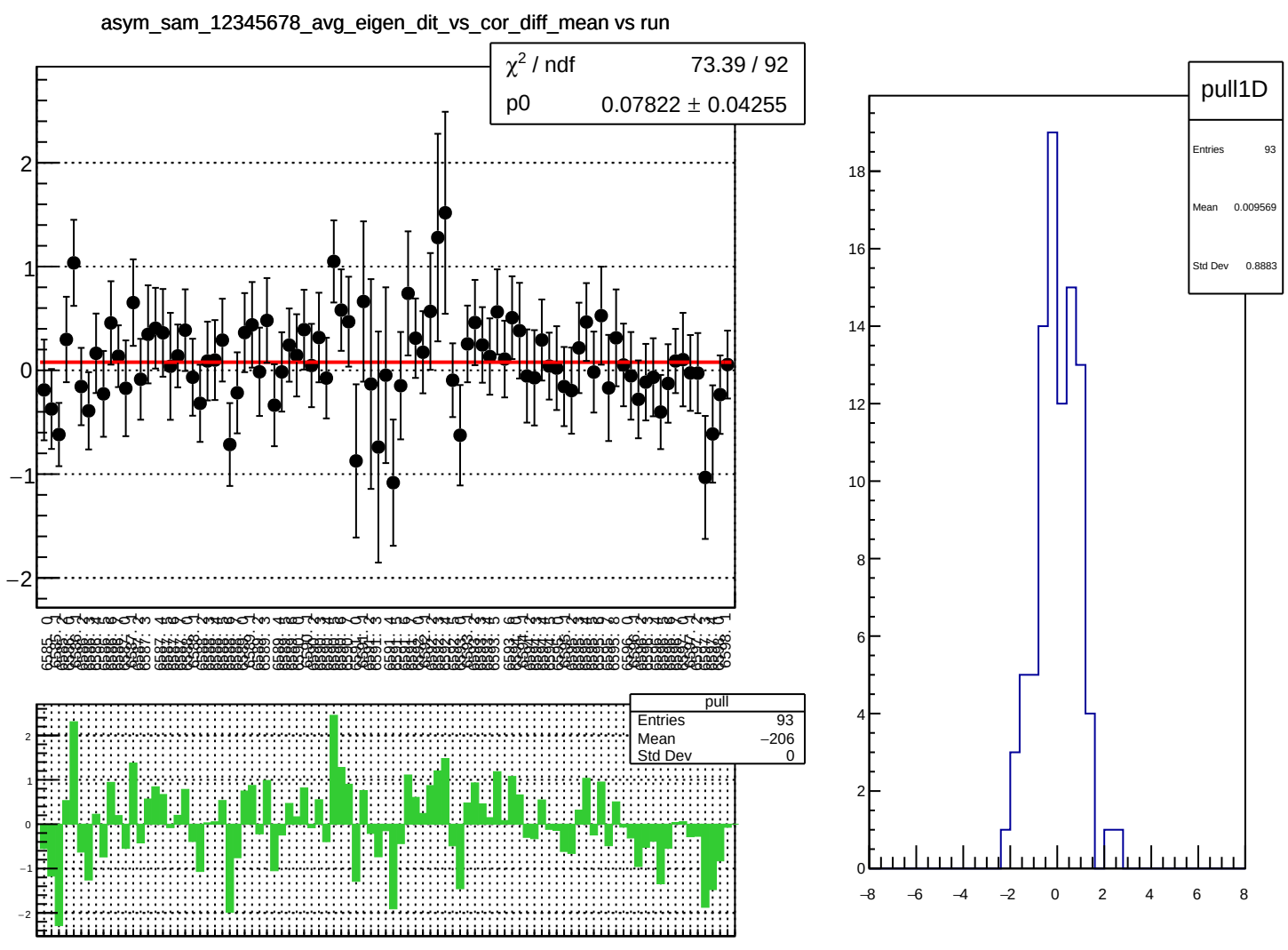

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.38 / 92
p0 0.07822 ± 0.04255
pull
Entries 93
Mean −206
Std Dev 0

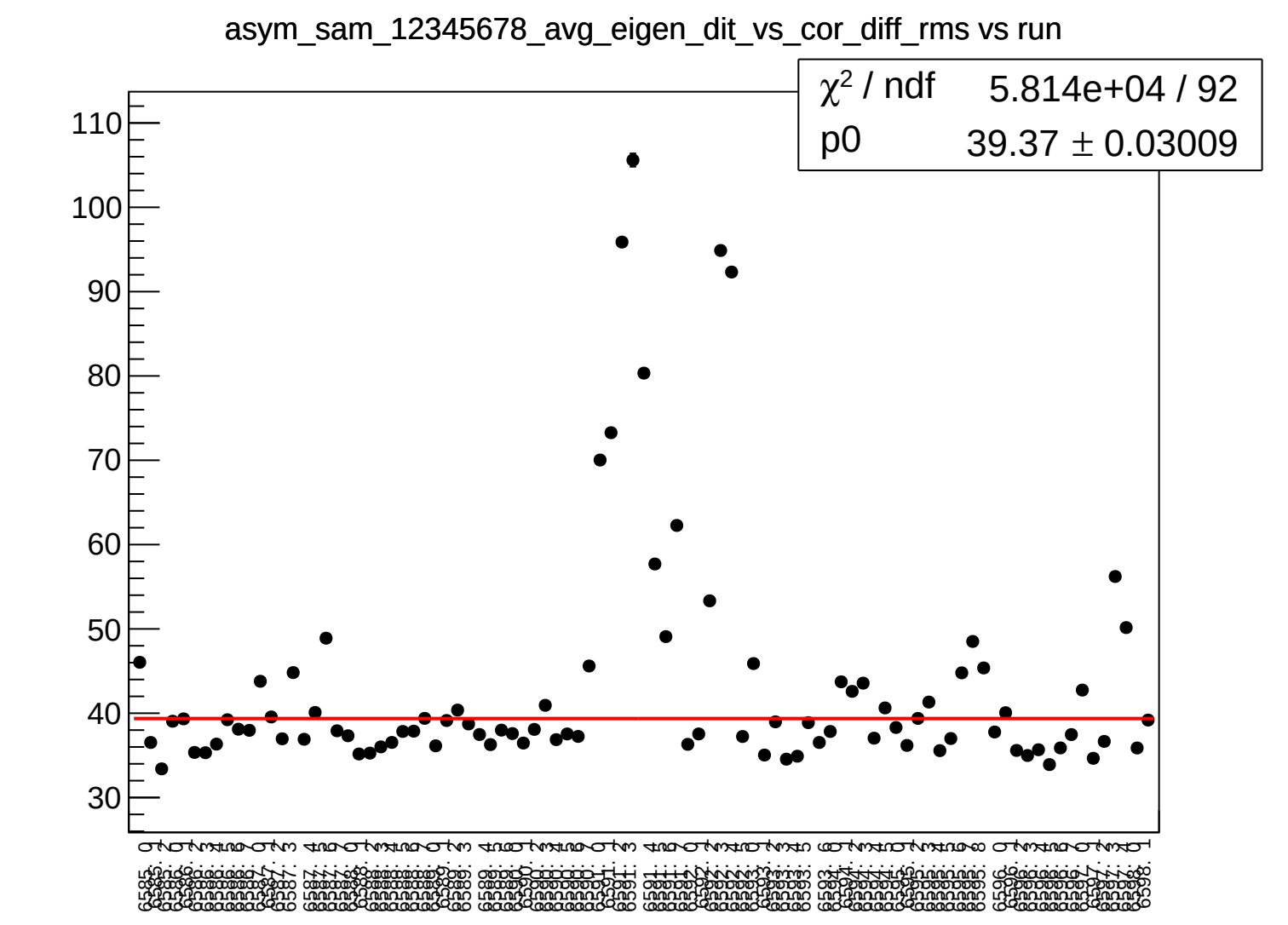

pull1D
Entries 93
Mean 0.009569
Std Dev 0.8883

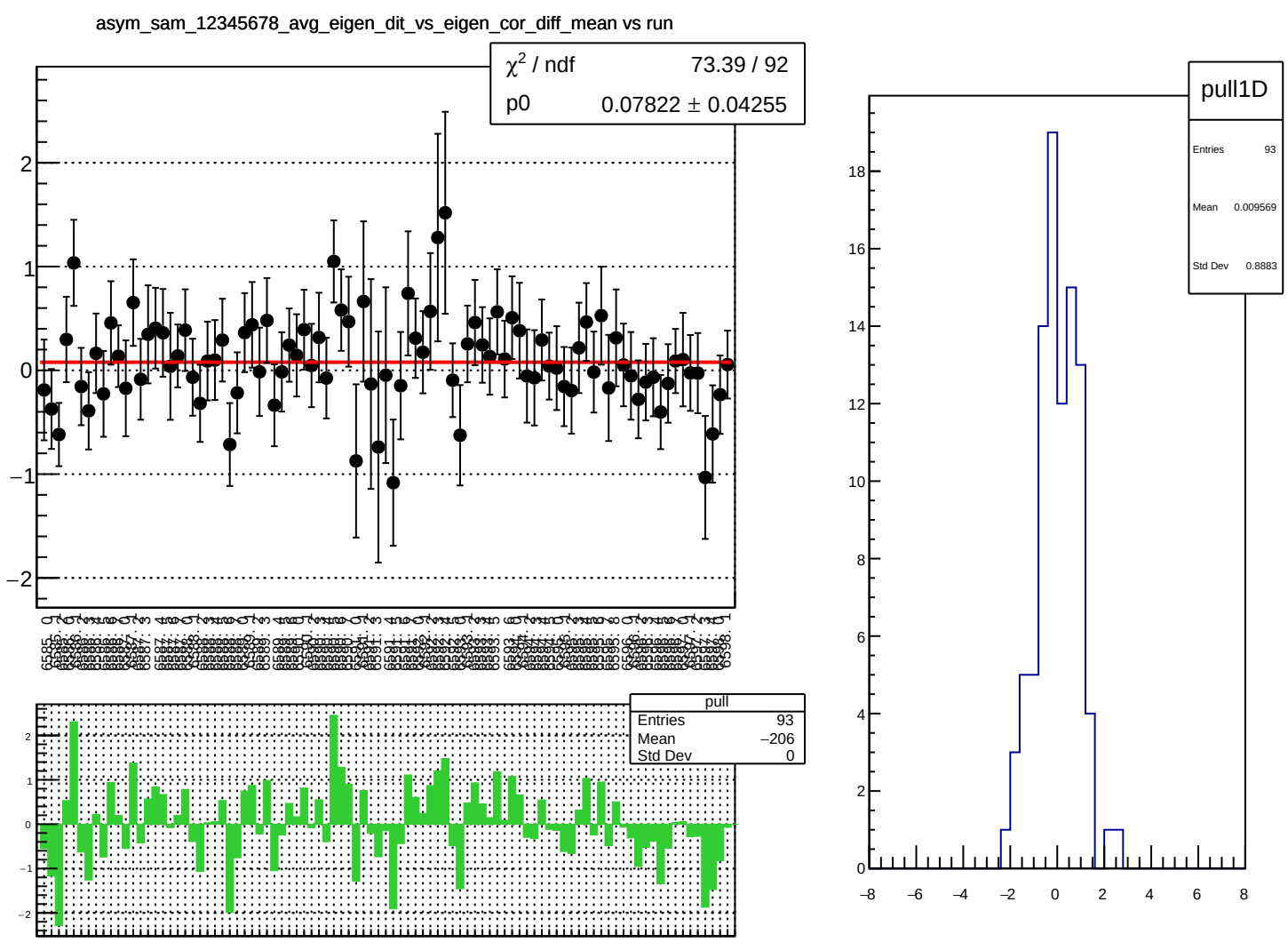

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.814e+04 / 92
p0 39.37 ± 0.03008
110
100
90
80
70
60
50
40
30

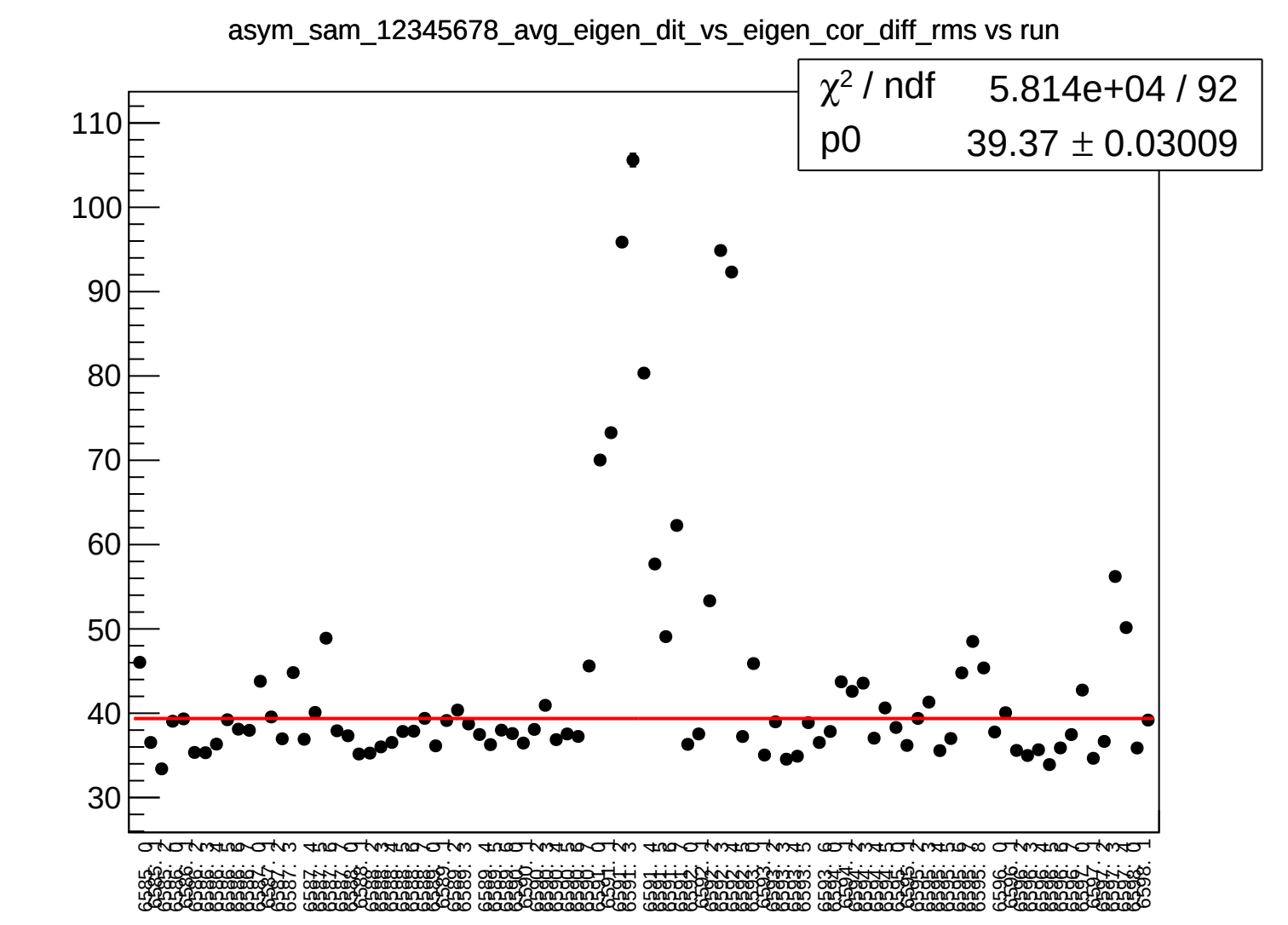

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108 / 92
p0 −1.256e−06 ± 2.226e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 1324
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001033
Std Dev 1.078
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

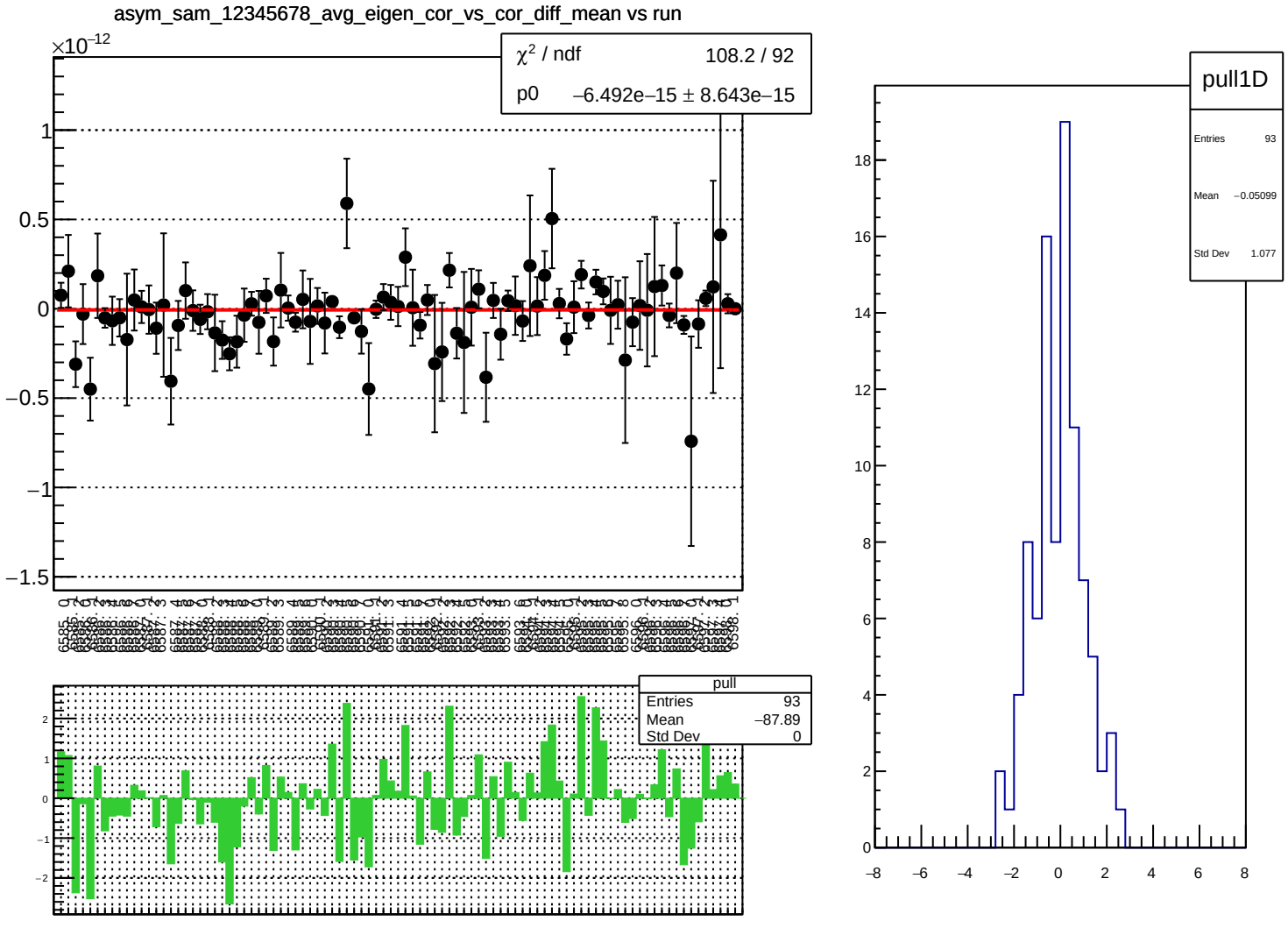

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.041e+04 / 92
p0 0.002088 ± 1.574e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

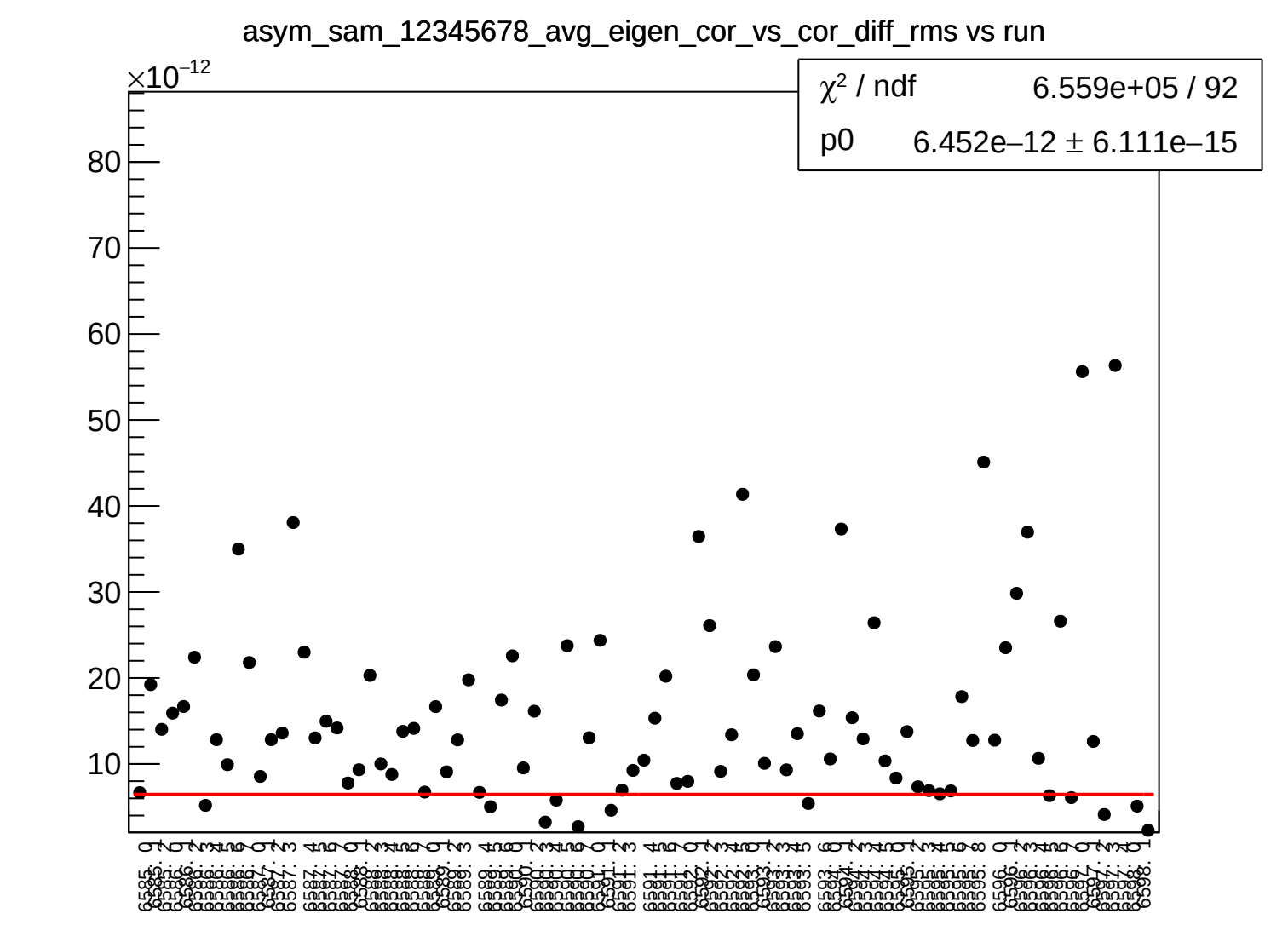

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.39 / 92
p0 0.07822 ± 0.04255
pull
Entries 93
Mean −206
Std Dev 0
pull1D
Entries 93
Mean 0.009569
Std Dev 0.8883

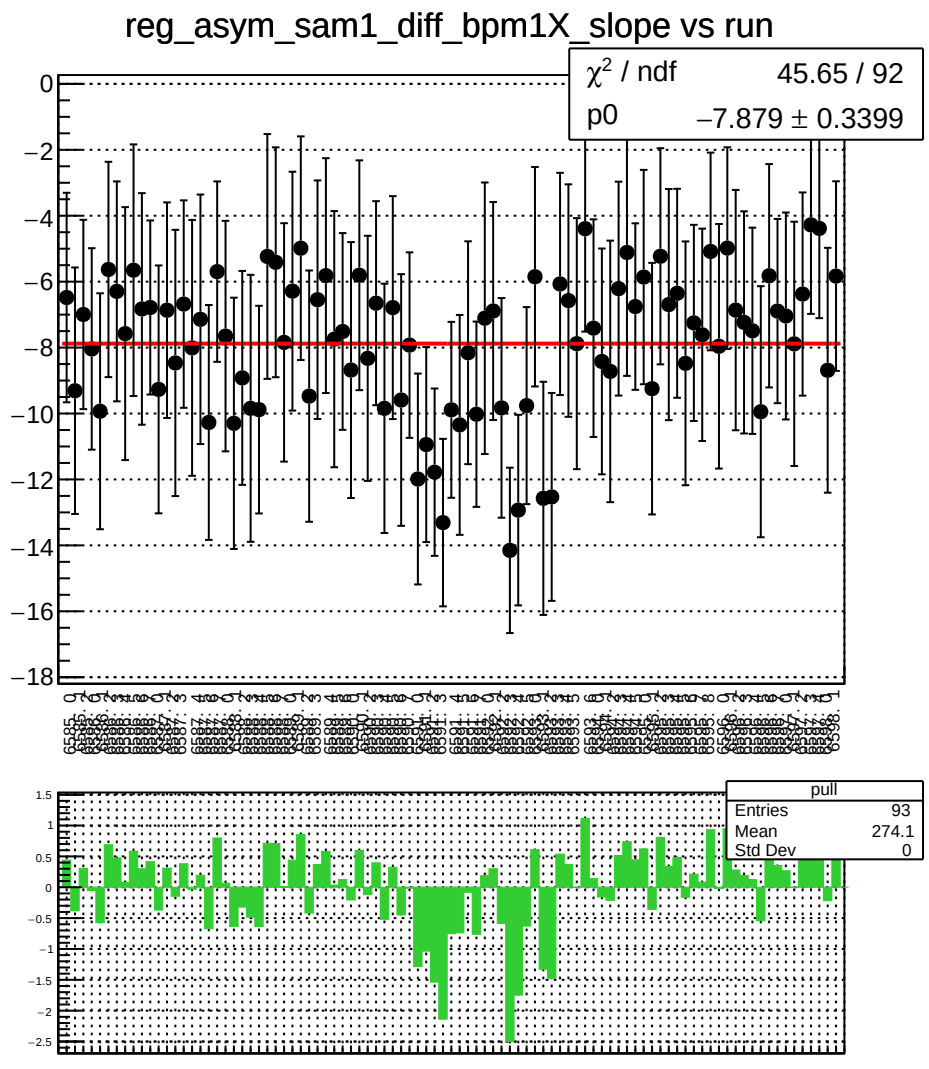

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.814e+04 / 92
p0 39.37 ± 0.03009
110
100
90
80
70
60
50
40
30

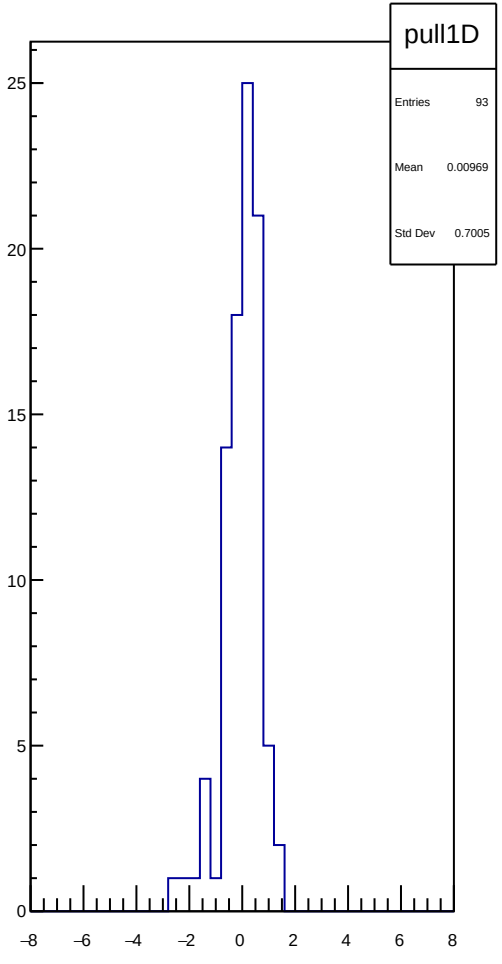

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.39 / 92
p0 0.07822 ± 0.04255
pull
Entries 93
Mean −206
Std Dev 0
pull1D
Entries 93
Mean 0.009569
Std Dev 0.8883

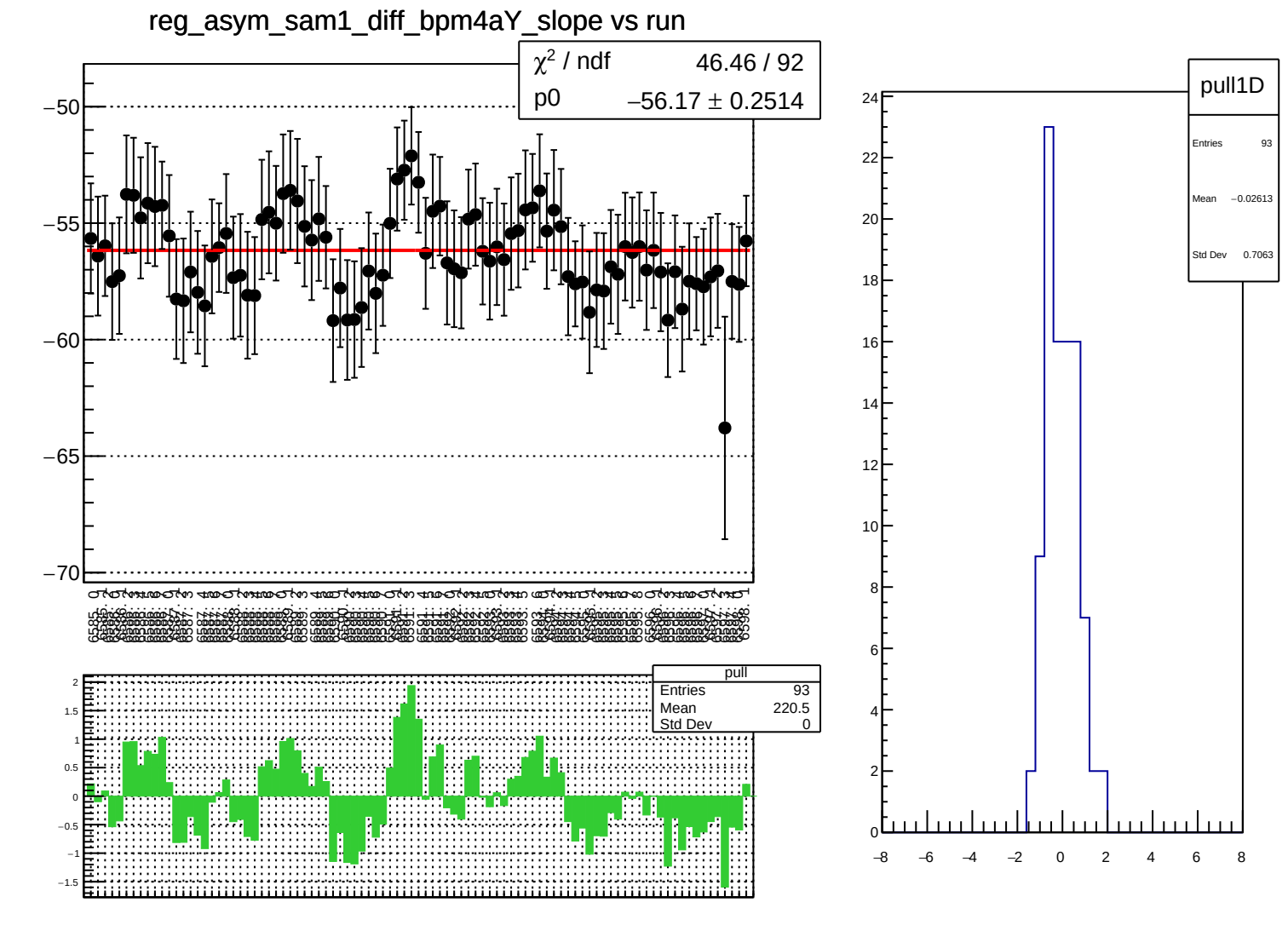

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.814e+04 / 92
p0 39.37 ± 0.03009
110
100
90
80
70
60
50
40
30

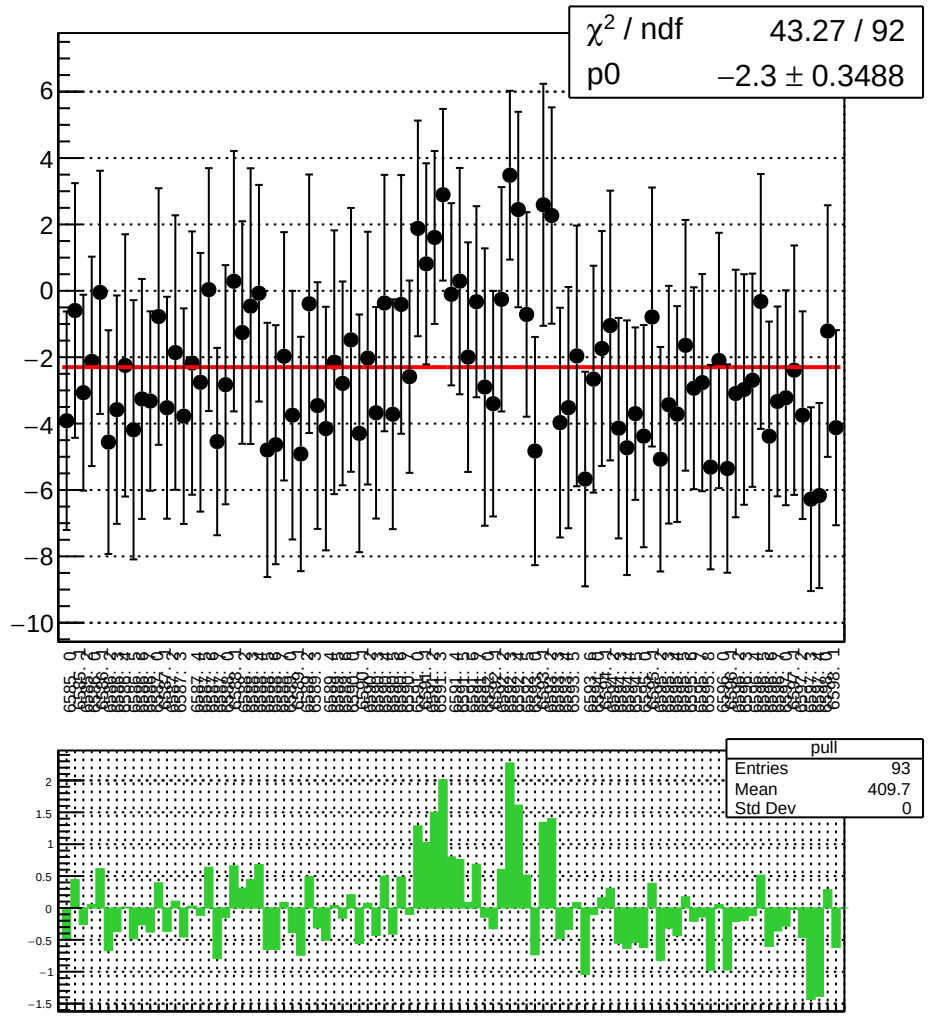

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.2 / 92
p0 −6.492e−15 ± 8.643e−15
pull
Entries 93
Mean −87.89
Std Dev 0
pull1D
Entries 93
Mean −0.05099
Std Dev 1.077

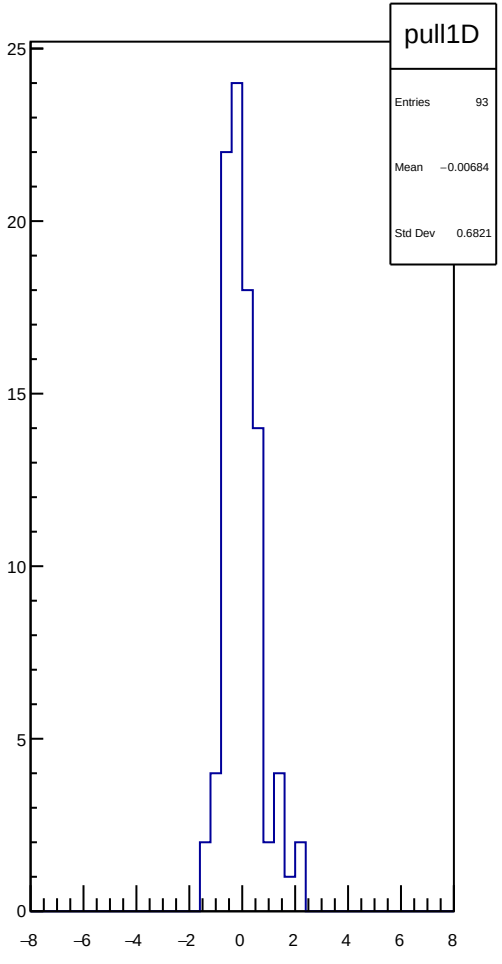

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.559e+05 / 92
p0 6.452e−12 ± 6.111e−15
80
70
60
50
40
30
20
10

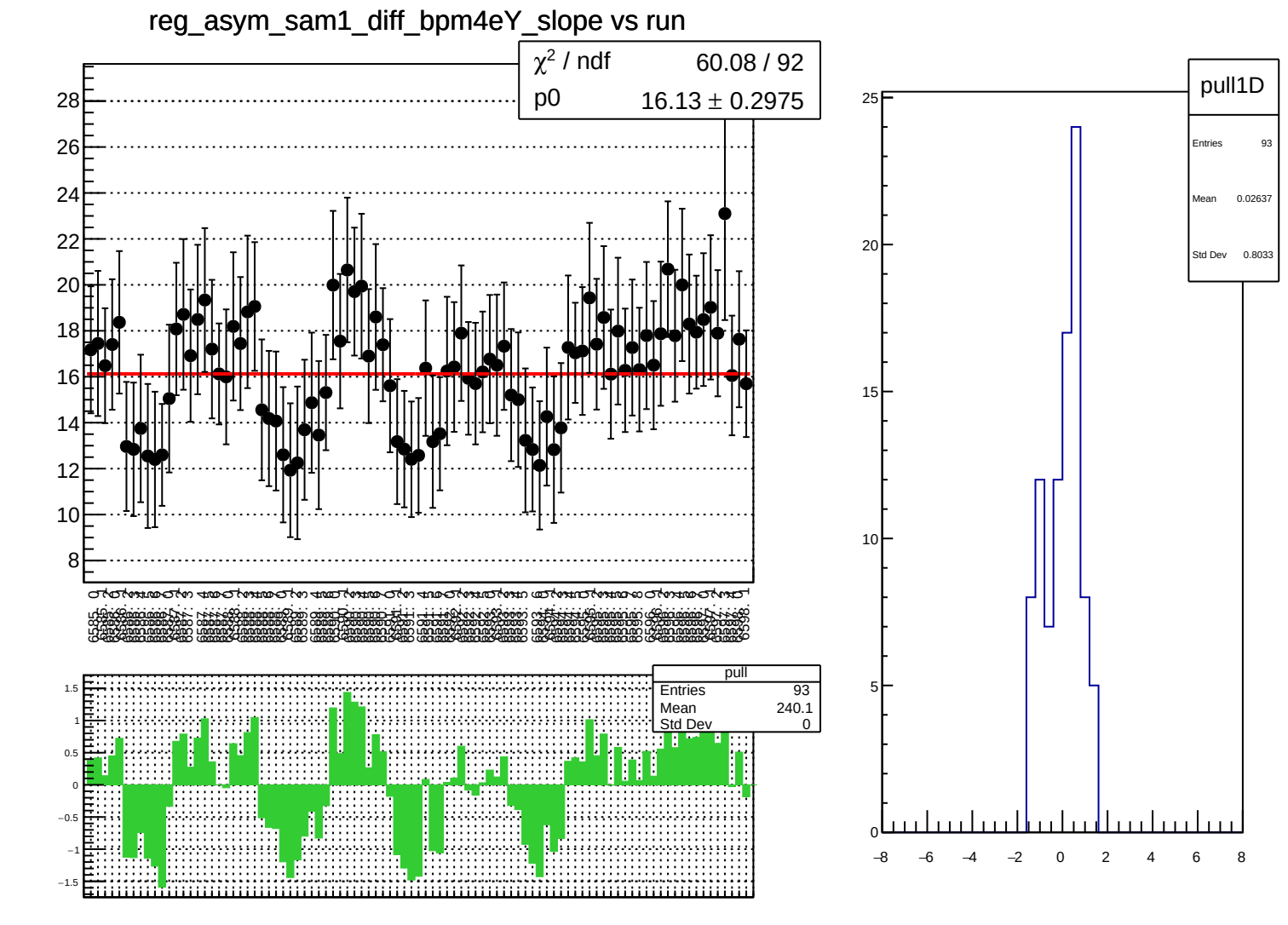

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 45.65 / 92
p0 −7.879 ± 0.3399
pull
Entries 93
Mean 274.1
Std Dev 0

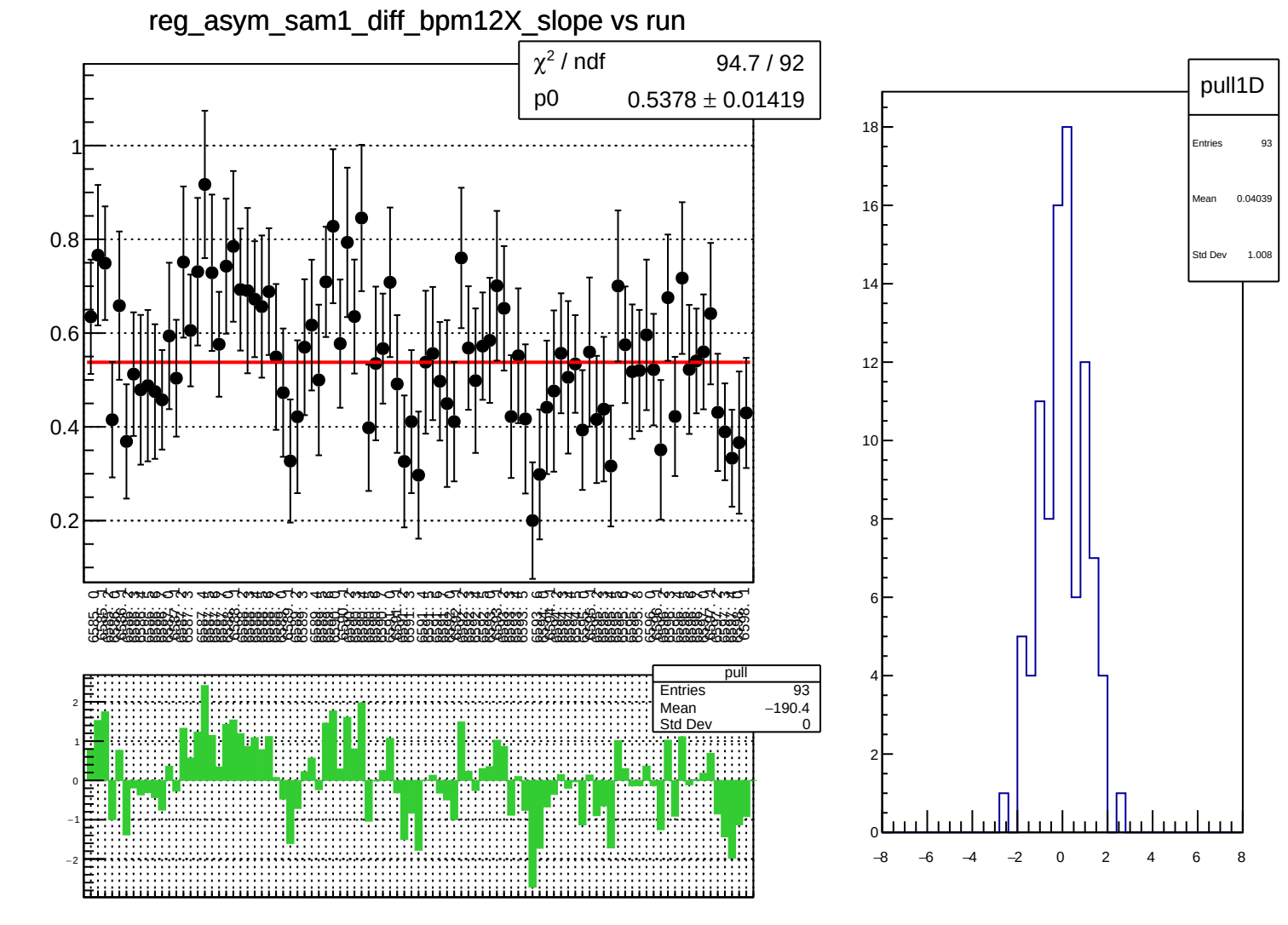

pull1D
Entries 93
Mean 0.00969
Std Dev 0.7005

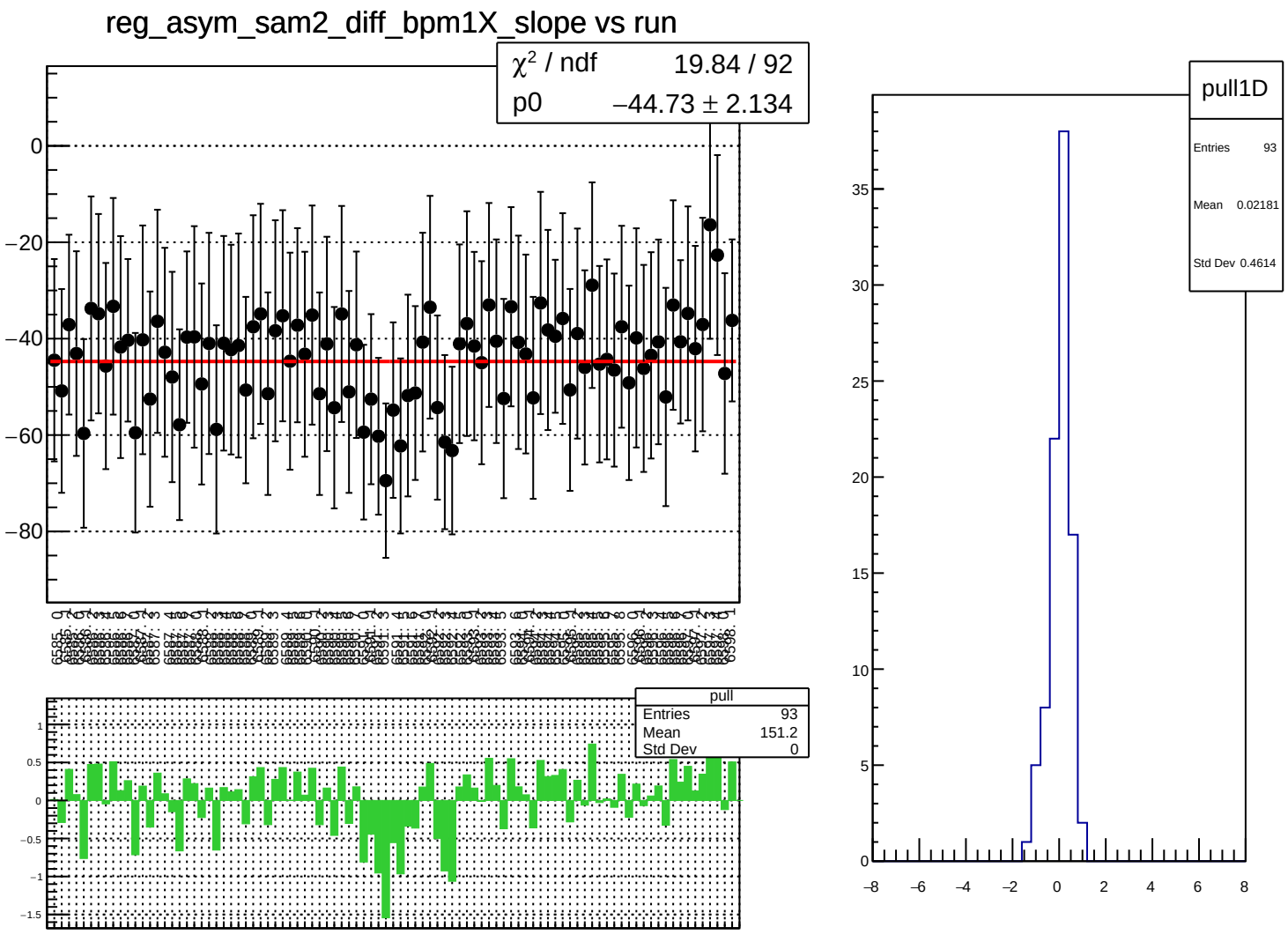

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 46.46 / 92
p0 −56.17 ± 0.2514
pull
Entries 93
Mean 220.5
Std Dev 0
pull1D
Entries 93
Mean −0.02613
Std Dev 0.7063

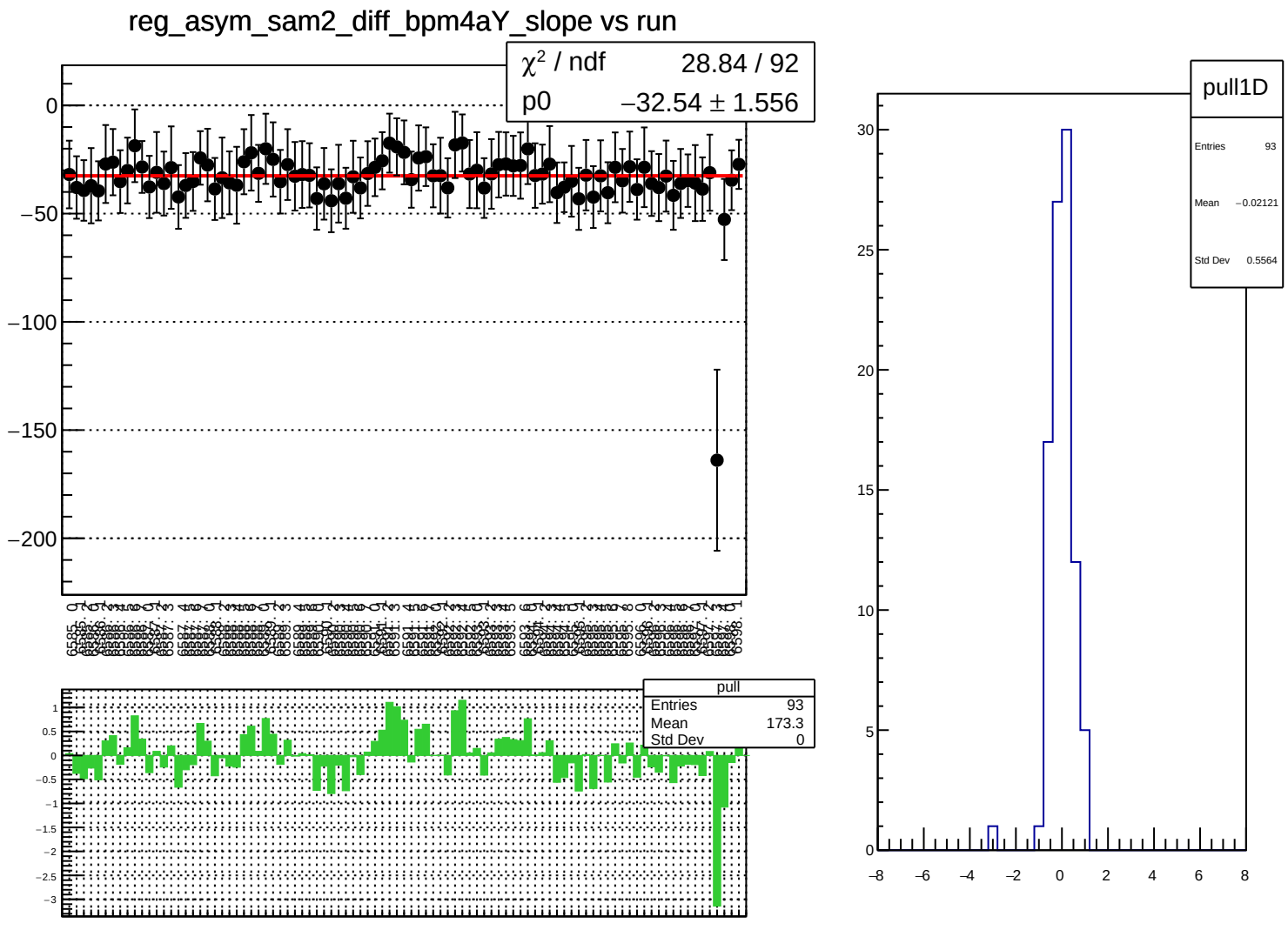

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 43.27 / 92
p0 −2.3 ± 0.3488
pull
Entries 93
Mean 409.7
Std Dev 0

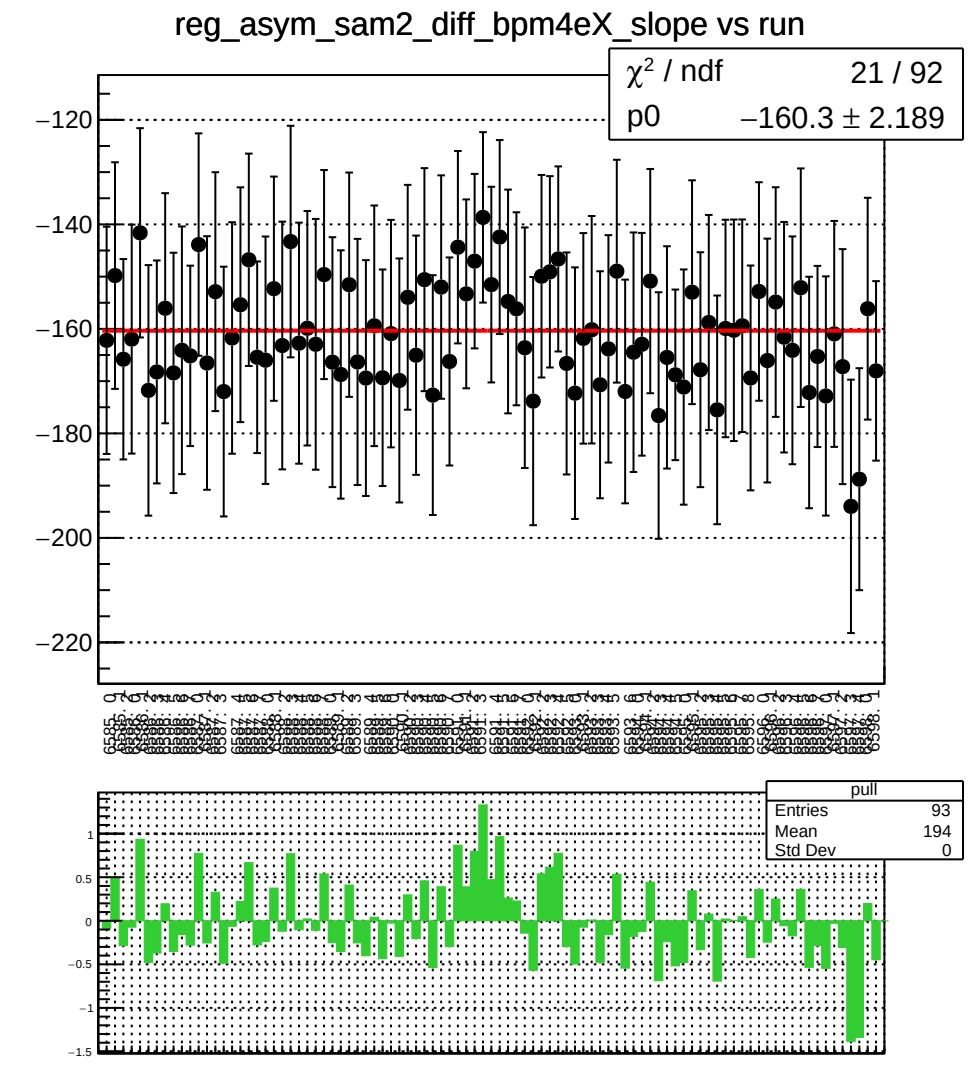

pull1D
Entries 93
Mean −0.00684
Std Dev 0.6821

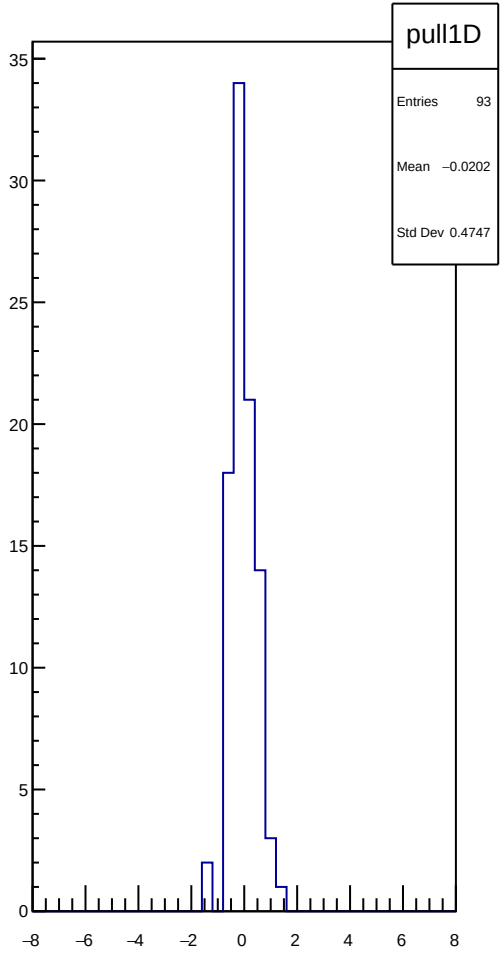

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 60.08 / 92
p0 16.13 ± 0.2975
pull
Entries 93
Mean 240.1
Std Dev 0
pull1D
Entries 93
Mean 0.02637
Std Dev 0.8033

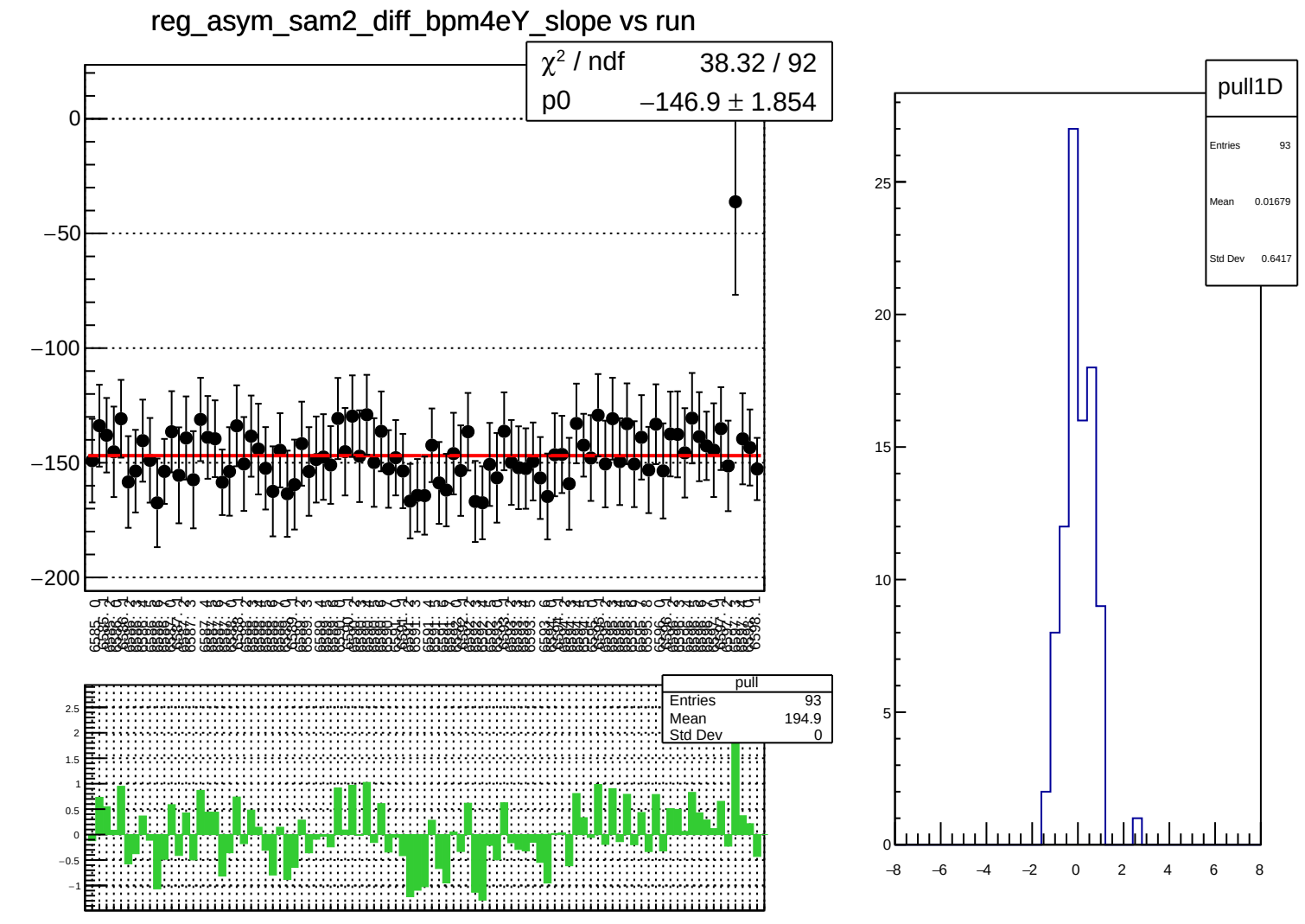

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 94.7 / 92
p0 0.5378 ± 0.01419
pull
Entries 93
Mean −190.4
Std Dev 0
pull1D
Entries 93
Mean 0.04039
Std Dev 1.008

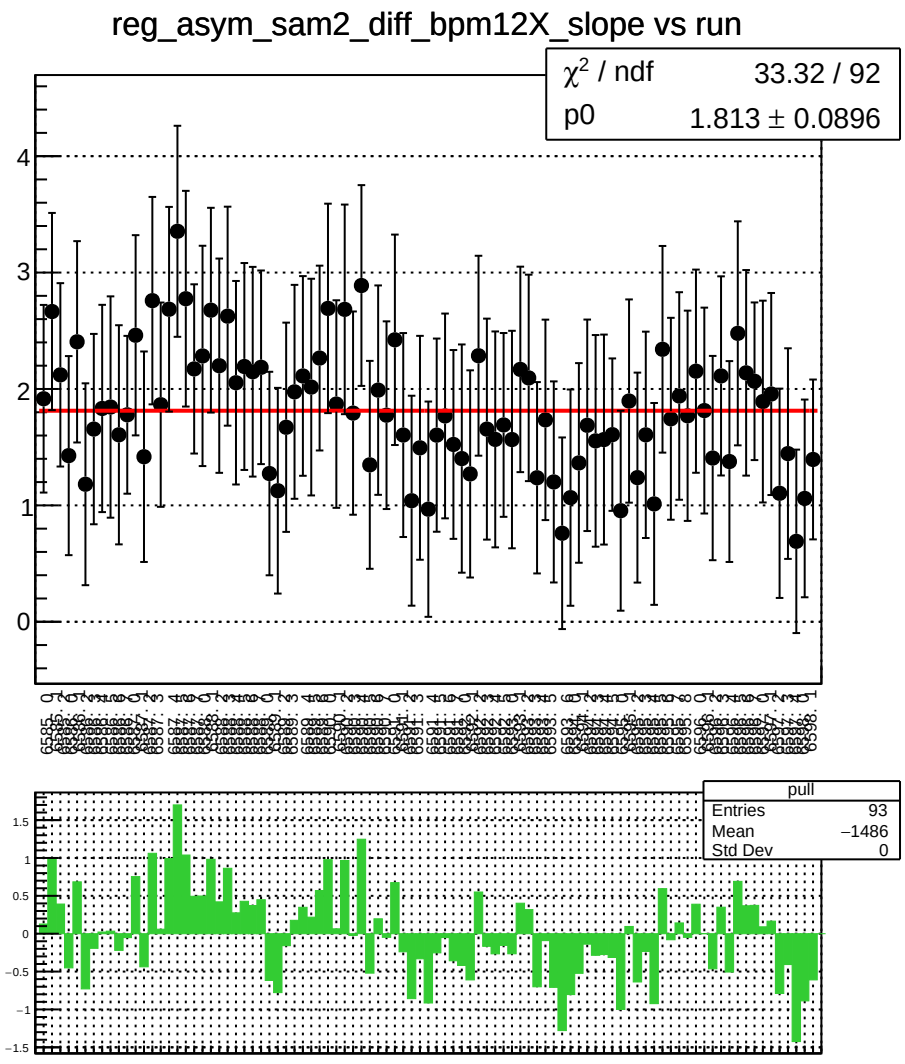

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 19.84 / 92
p0 −44.73 ± 2.134
0
−20
−40
−60
−80
pull
Entries 93
Mean 151.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.02181
Std Dev 0.4614
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

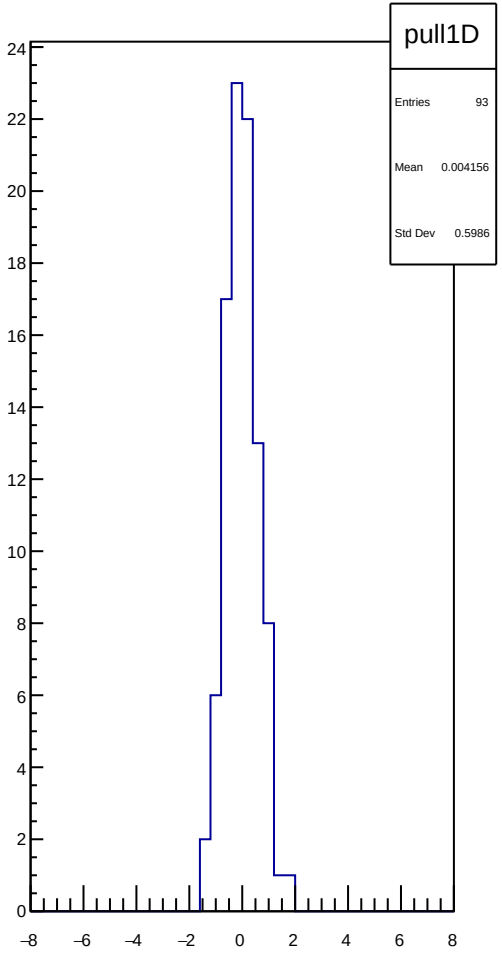

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 28.84 / 92
p0 −32.54 ± 1.556
0
−50
−100
−150
−200
pull
Entries 93
Mean 173.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 93
Mean −0.02121
Std Dev 0.5564
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

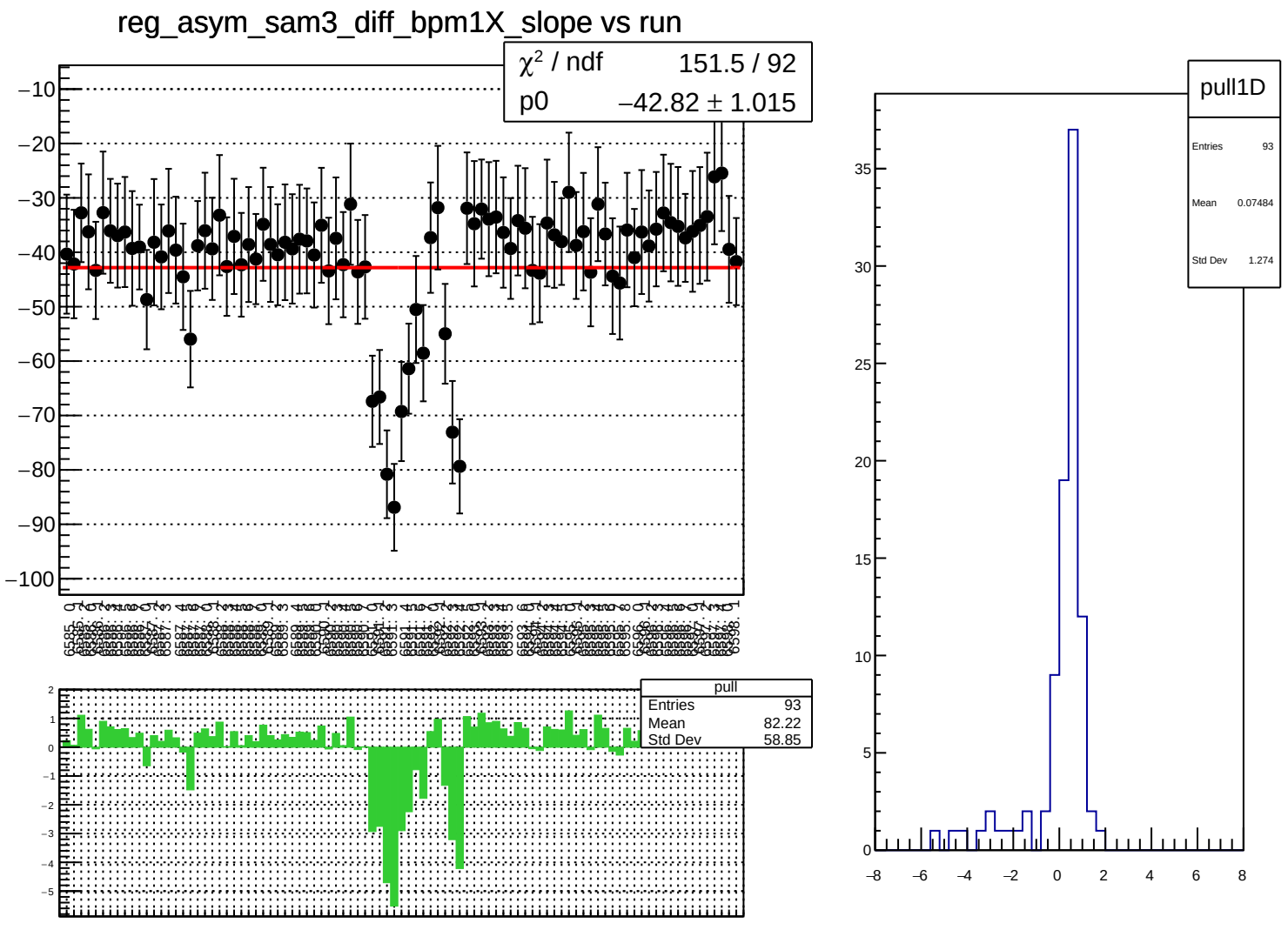

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 21 / 92
p0 −160.3 ± 2.189
−120
−140
−160
−180
−200
−220
pull
Entries 93
Mean 194
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

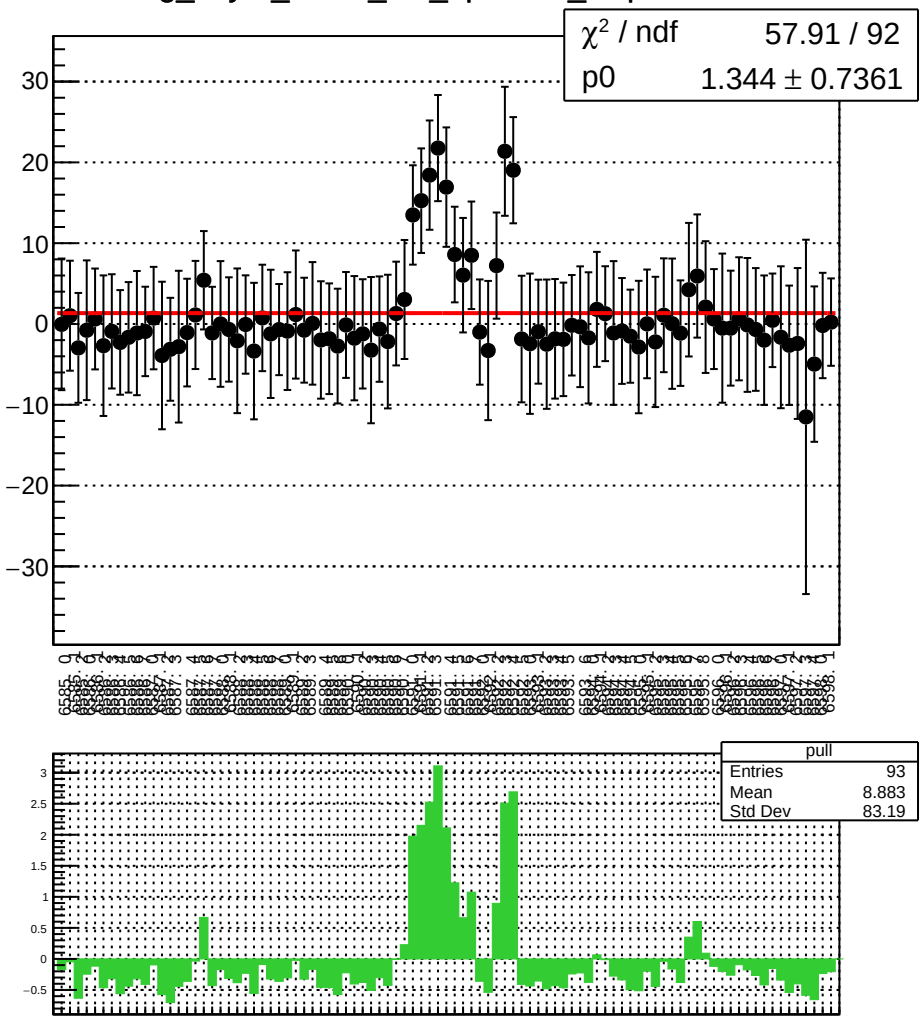

pull1D
Entries 93
Mean −0.0202
Std Dev 0.4747
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

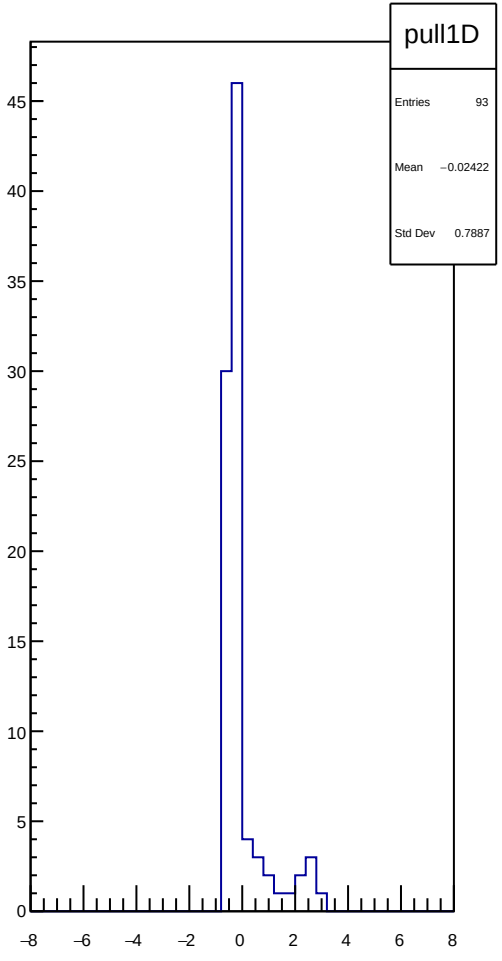

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 38.32 / 92
p0 −146.9 ± 1.854
0
−50
−100
−150
−200
pull
Entries 93
Mean 194.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.01679
Std Dev 0.6417
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

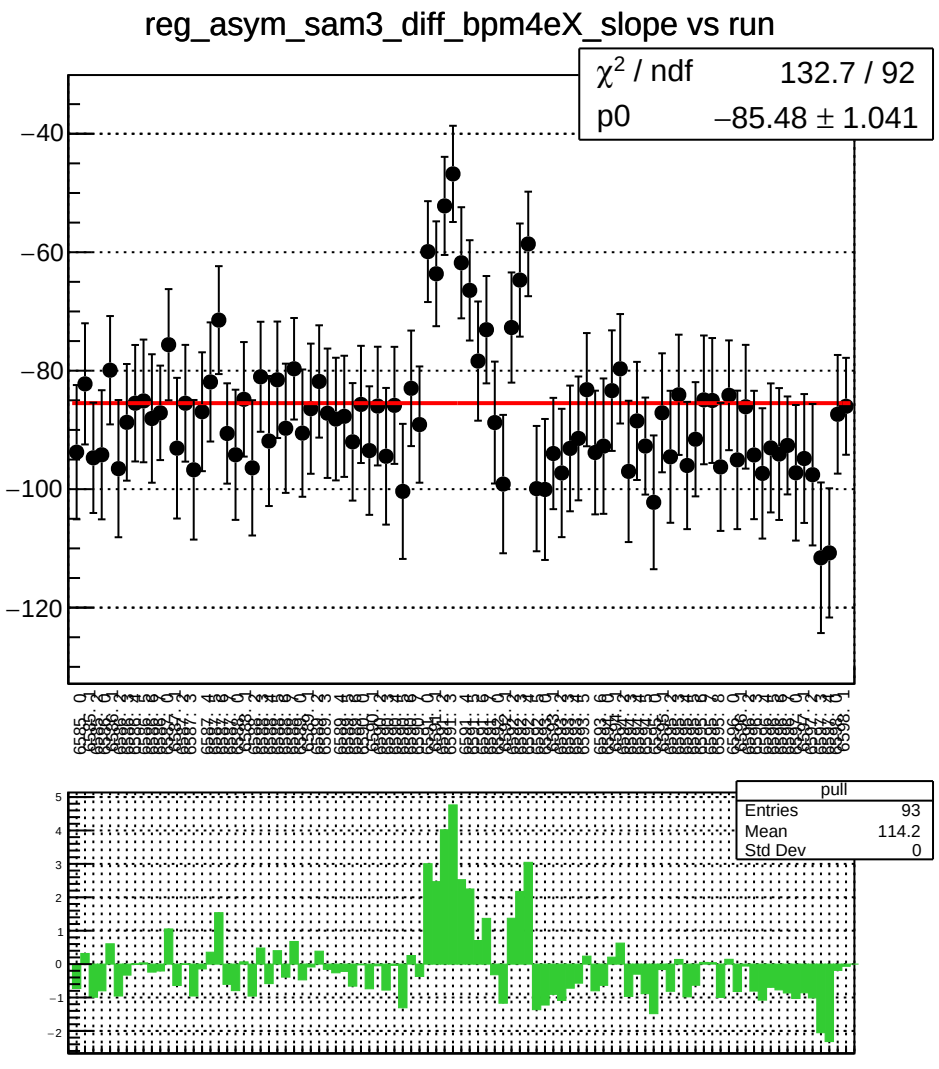

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 33.32 / 92
p0 1.813 ± 0.0896
pull
Entries 93
Mean −1486
Std Dev 0

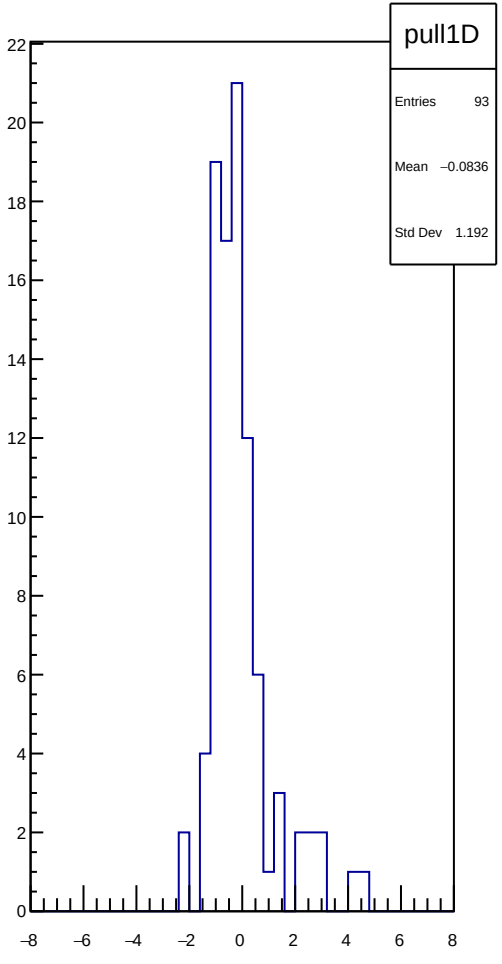

pull1D
Entries 93
Mean 0.004156
Std Dev 0.5986

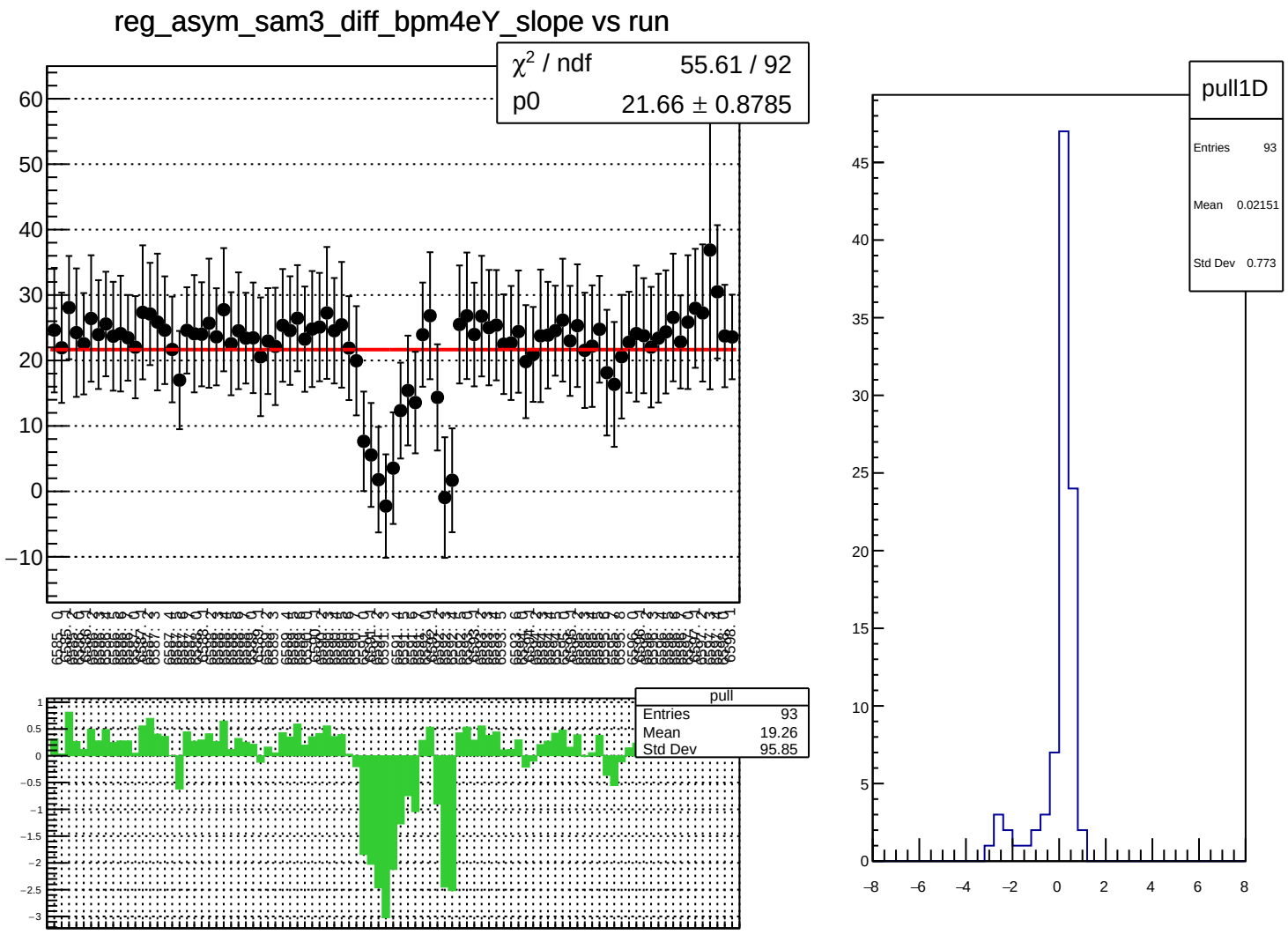

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 151.5 / 92
p0 −42.82 ± 1.015
pull
Entries 93
Mean 82.22
Std Dev 58.85
pull1D
Entries 93
Mean 0.07484
Std Dev 1.274

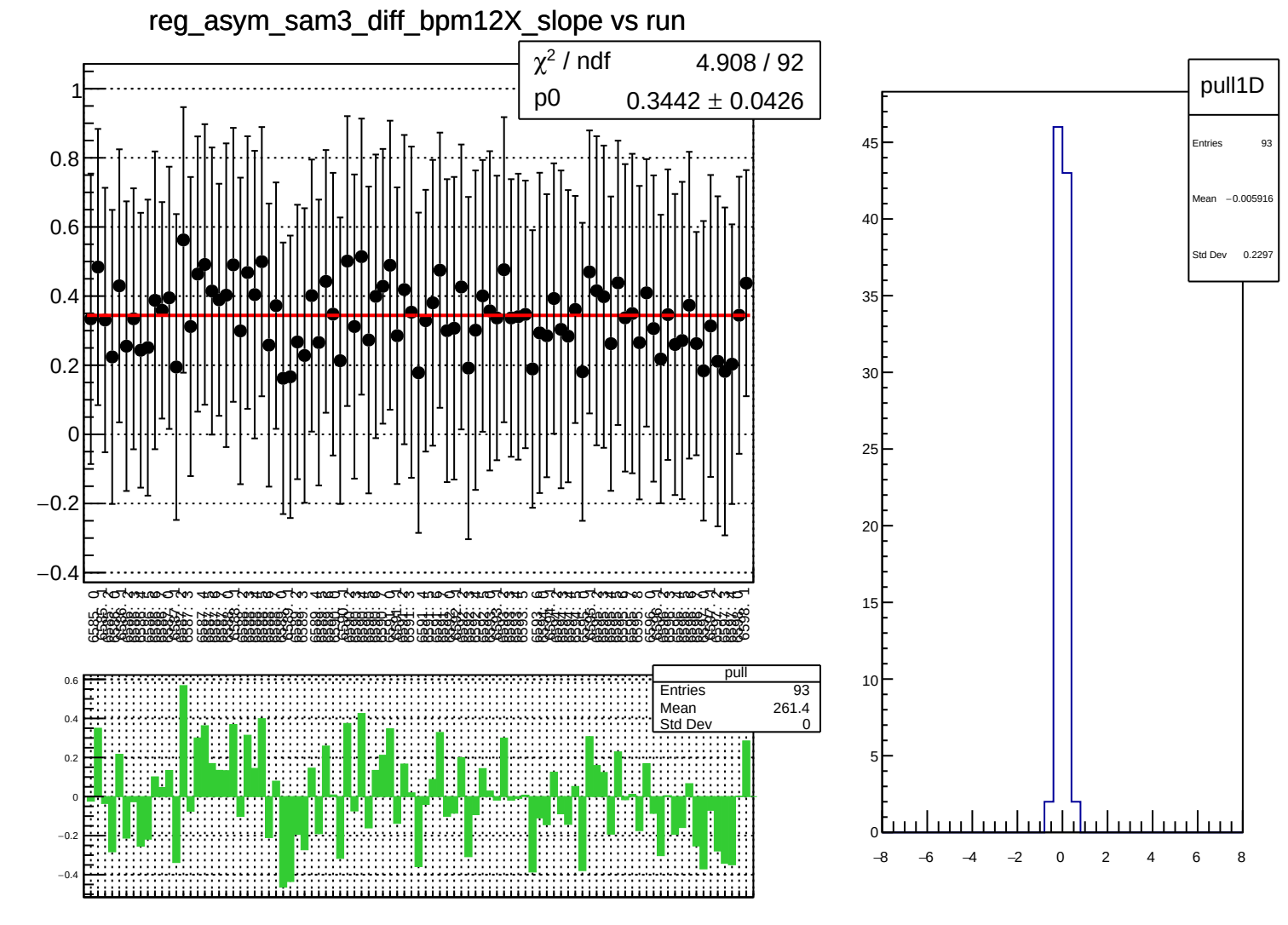

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 57.91 / 92
p0 1.344 ± 0.7361
pull
Entries 93
Mean 8.883
Std Dev 83.19

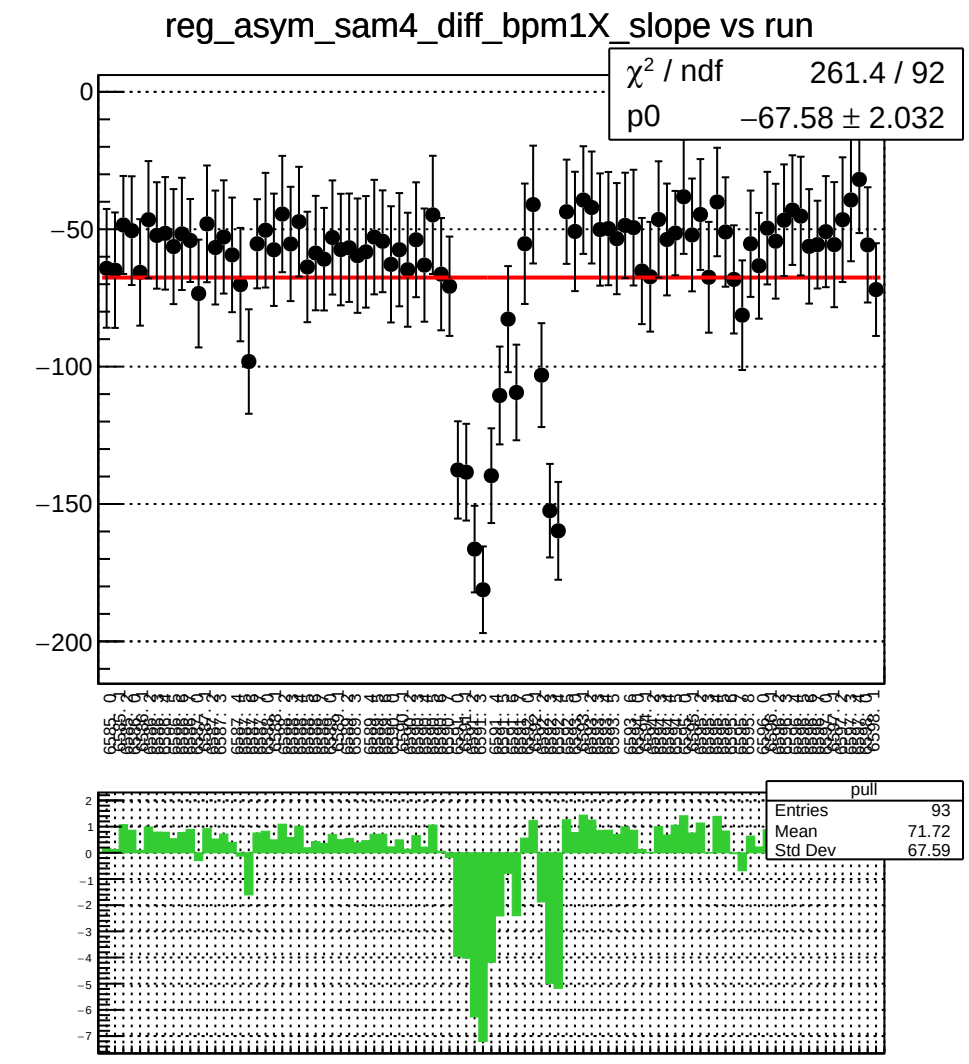

pull1D
Entries 93
Mean −0.02422
Std Dev 0.7887

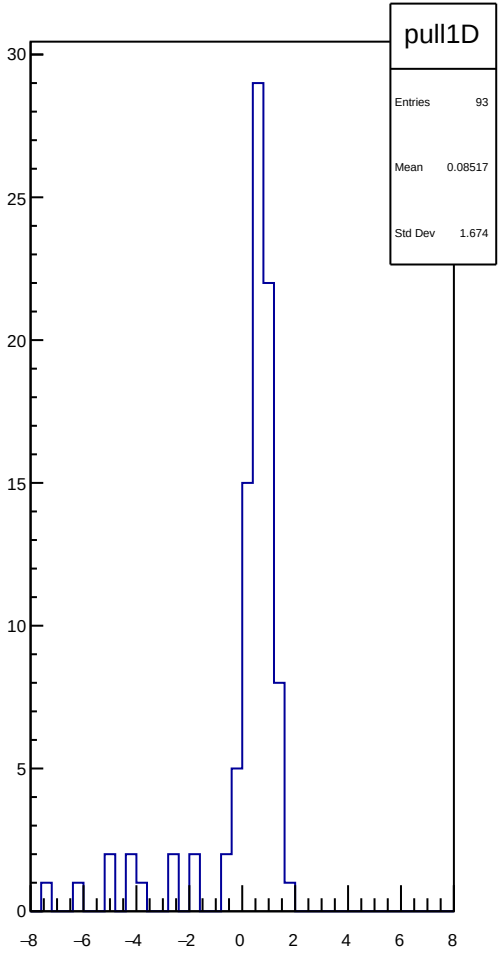

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 132.7 / 92
p0 −85.48 ± 1.041
−40
−60
−80
−100
−120
pull
Entries 93
Mean 114.2
Std Dev 0
5
4
3
2
1
0
−1
−2

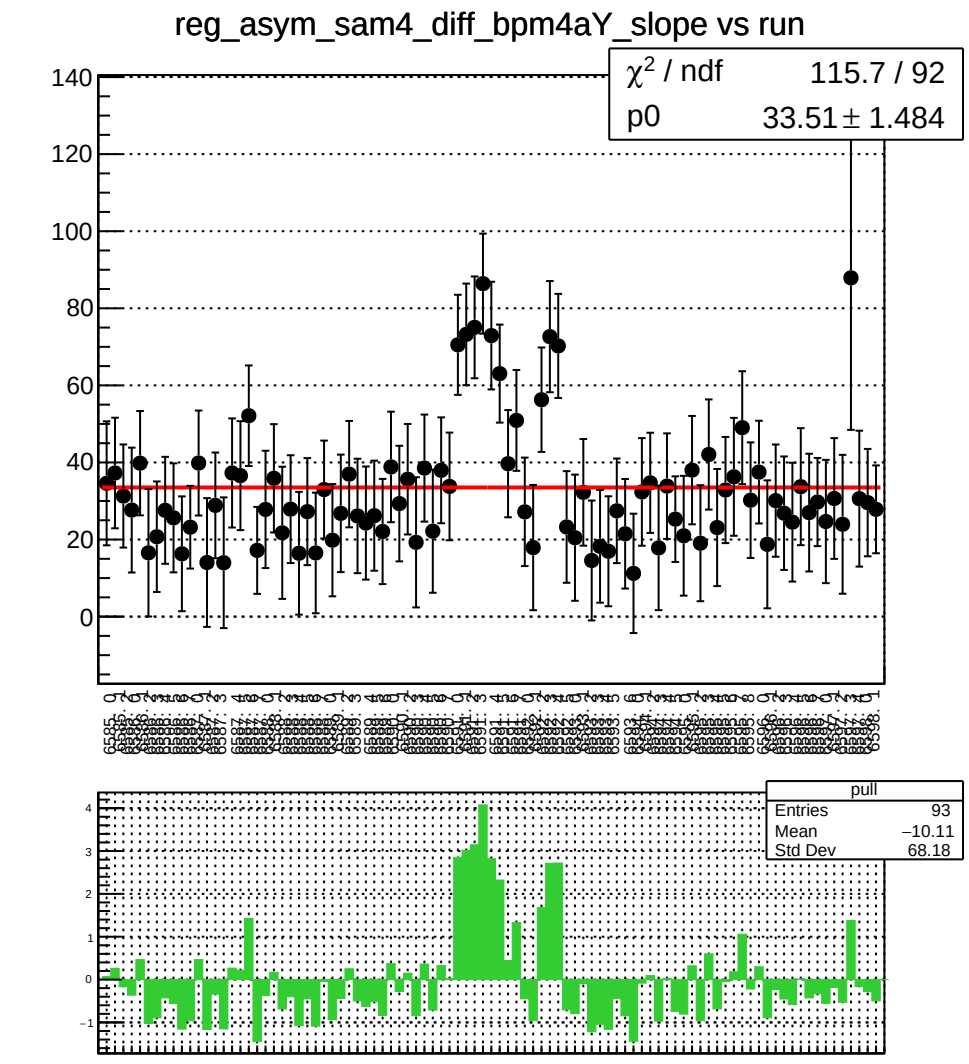

pull1D
Entries 93
Mean −0.0836
Std Dev 1.192
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

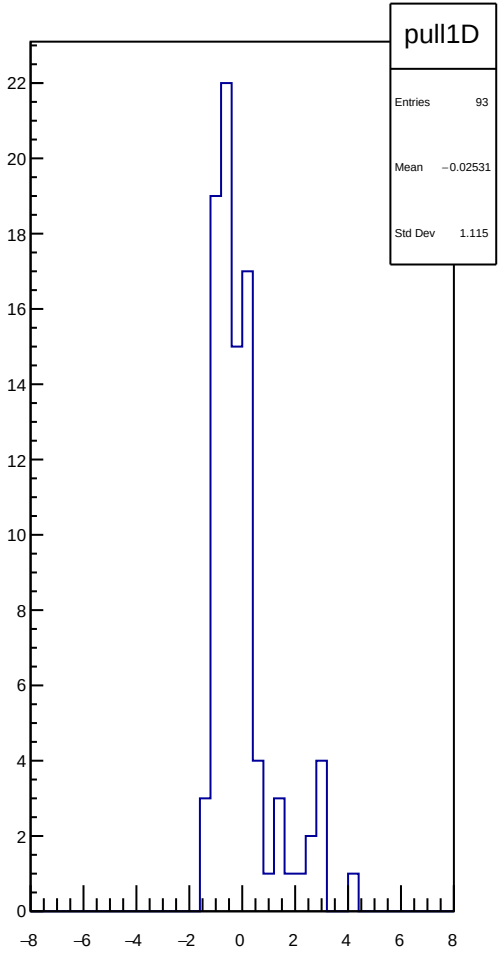

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 55.61 / 92
p0 21.66 ± 0.8785
pull
Entries 93
Mean 19.26
Std Dev 95.85
pull1D
Entries 93
Mean 0.02151
Std Dev 0.773

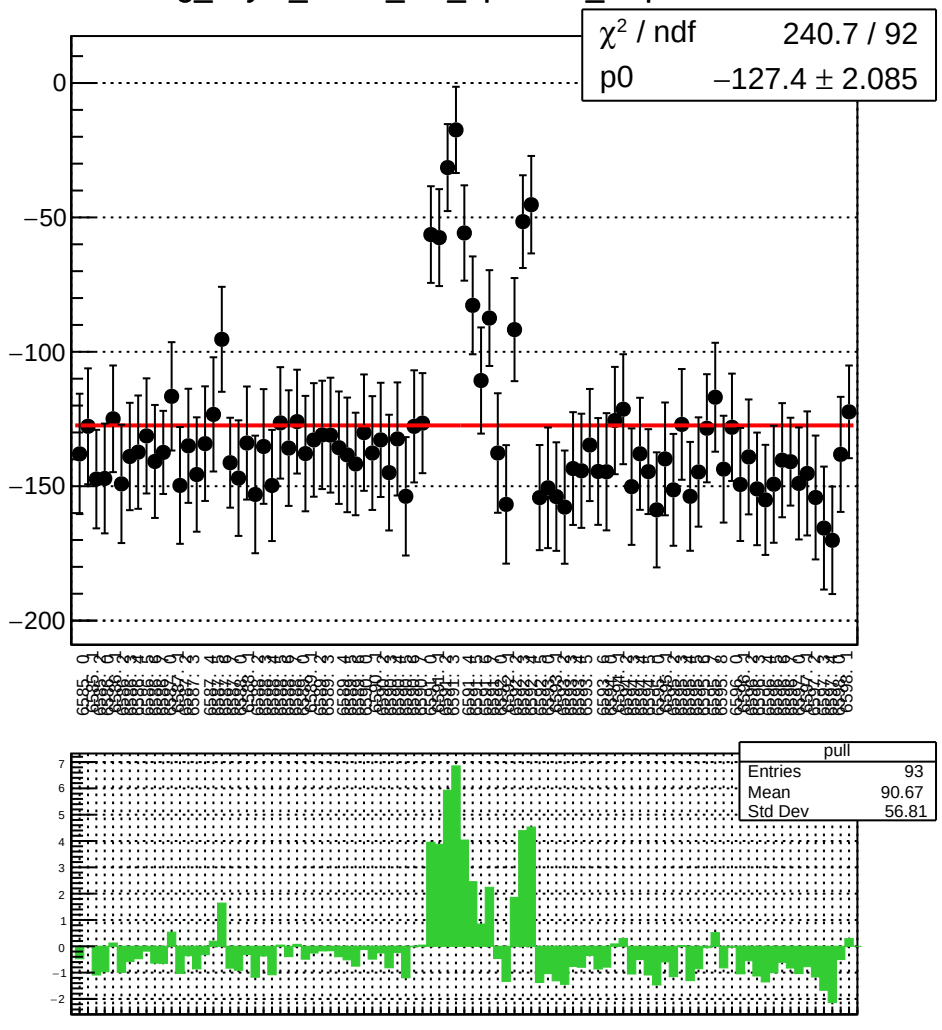

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.908 / 92
p0 0.3442 ± 0.0426
pull
Entries 93
Mean 261.4
Std Dev 0
pull1D
Entries 93
Mean −0.005916
Std Dev 0.2297

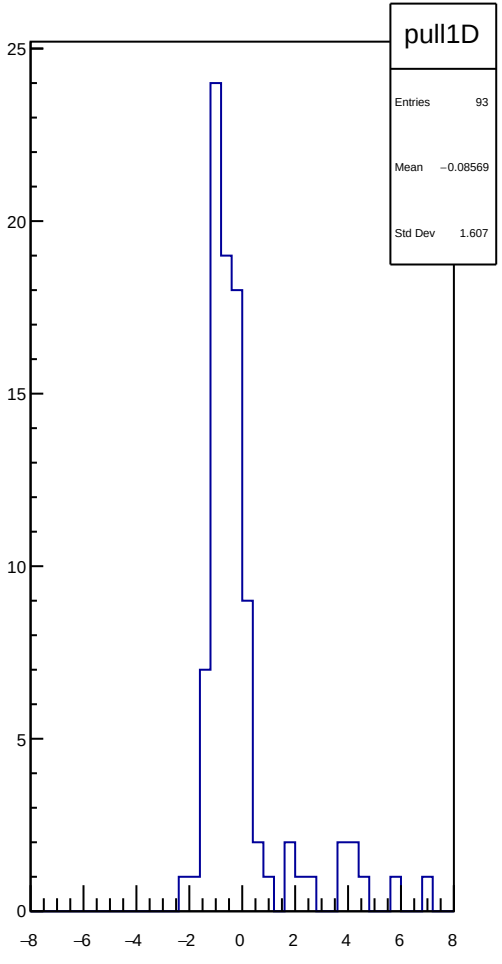

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 261.4 / 92
p0 −67.58 ± 2.032
0
−50
−100
−150
−200
pull
Entries 93
Mean 71.72
Std Dev 67.59
2
1
0
−1
−2
−3
−4
−5
−6
−7

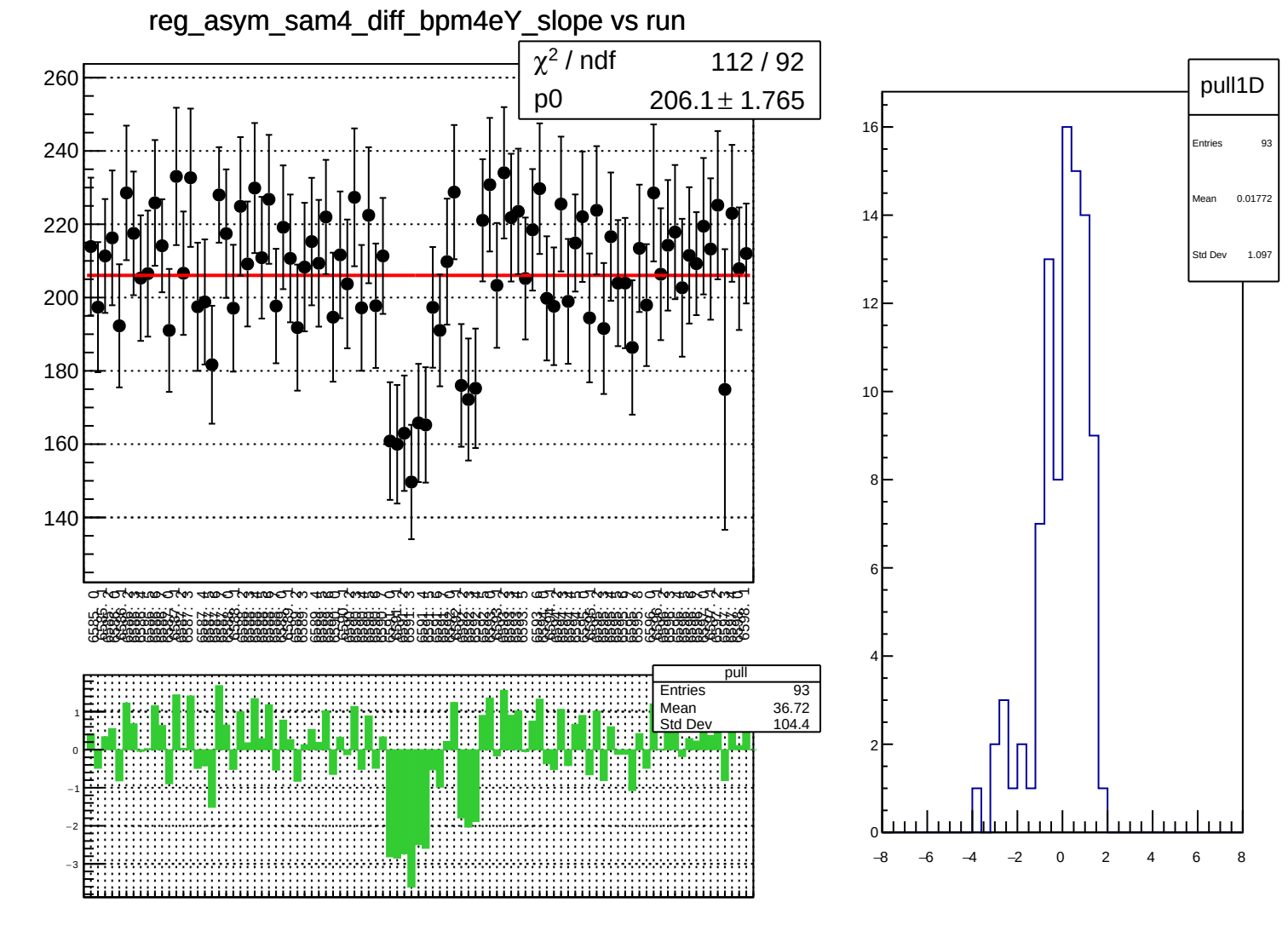

pull1D
Entries 93
Mean 0.08517
Std Dev 1.674
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

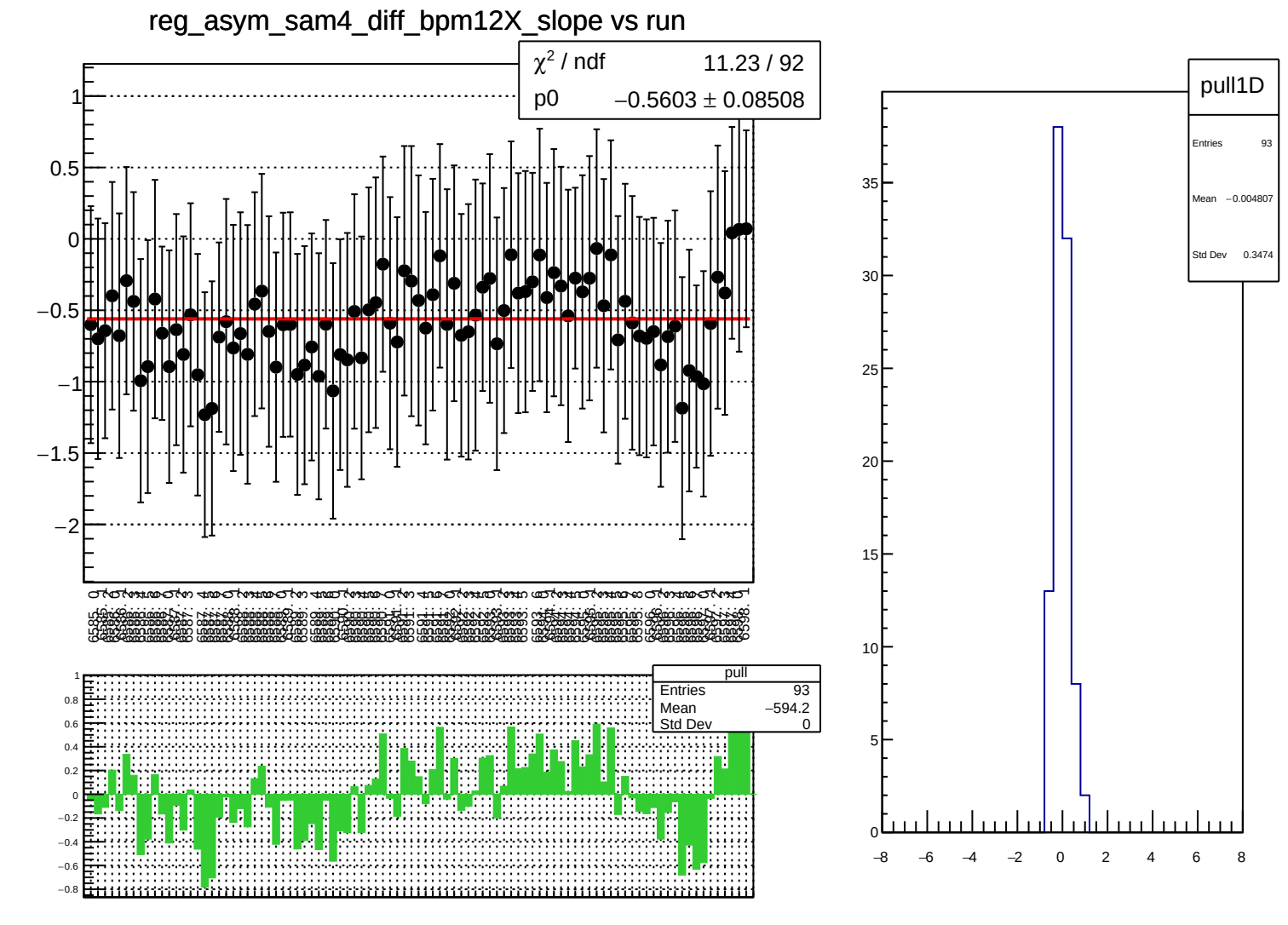

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 115.7 / 92
p0 33.51 ± 1.484
pull
Entries 93
Mean −10.11
Std Dev 68.18

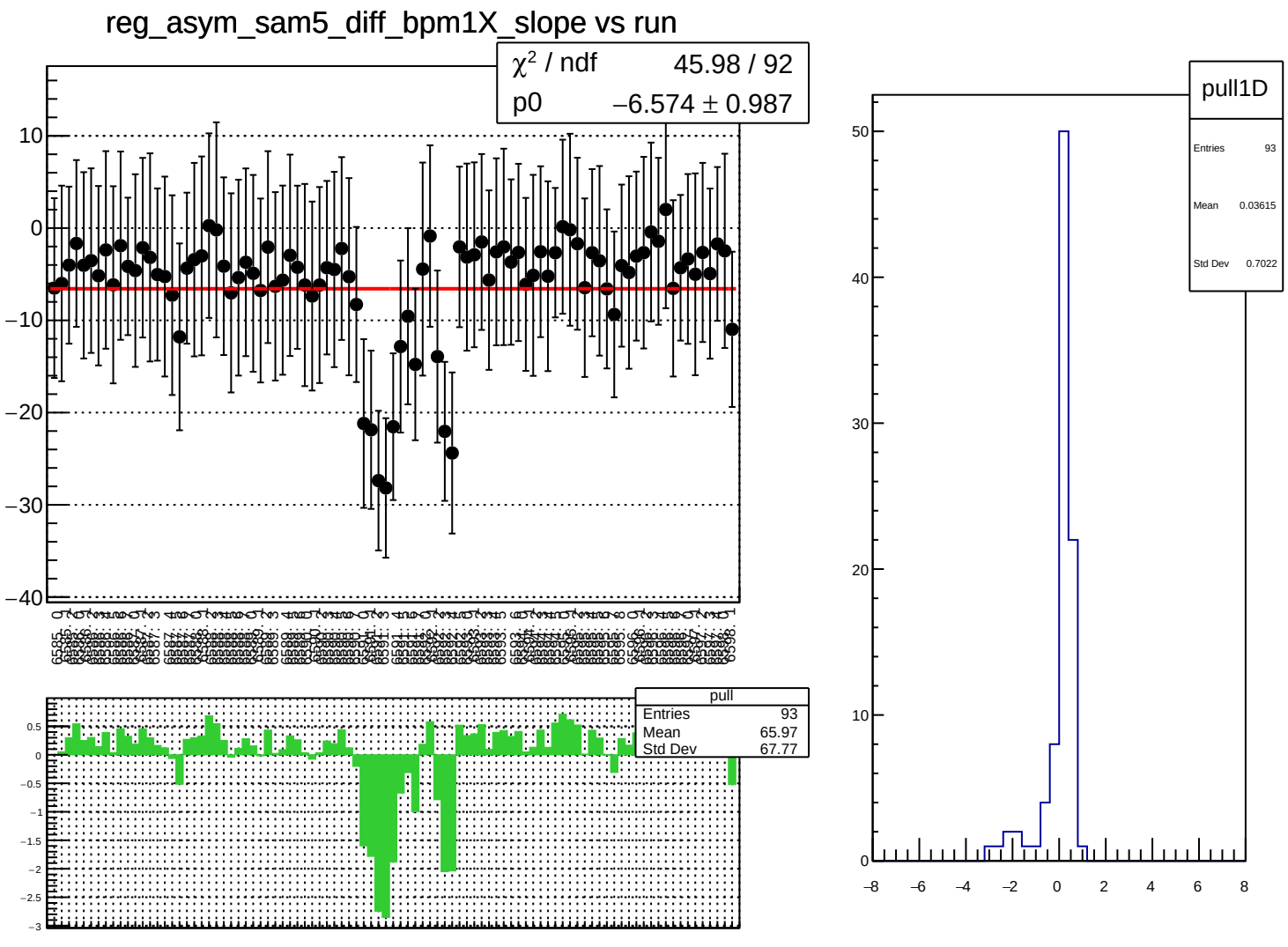

pull1D
Entries 93
Mean −0.02531
Std Dev 1.115

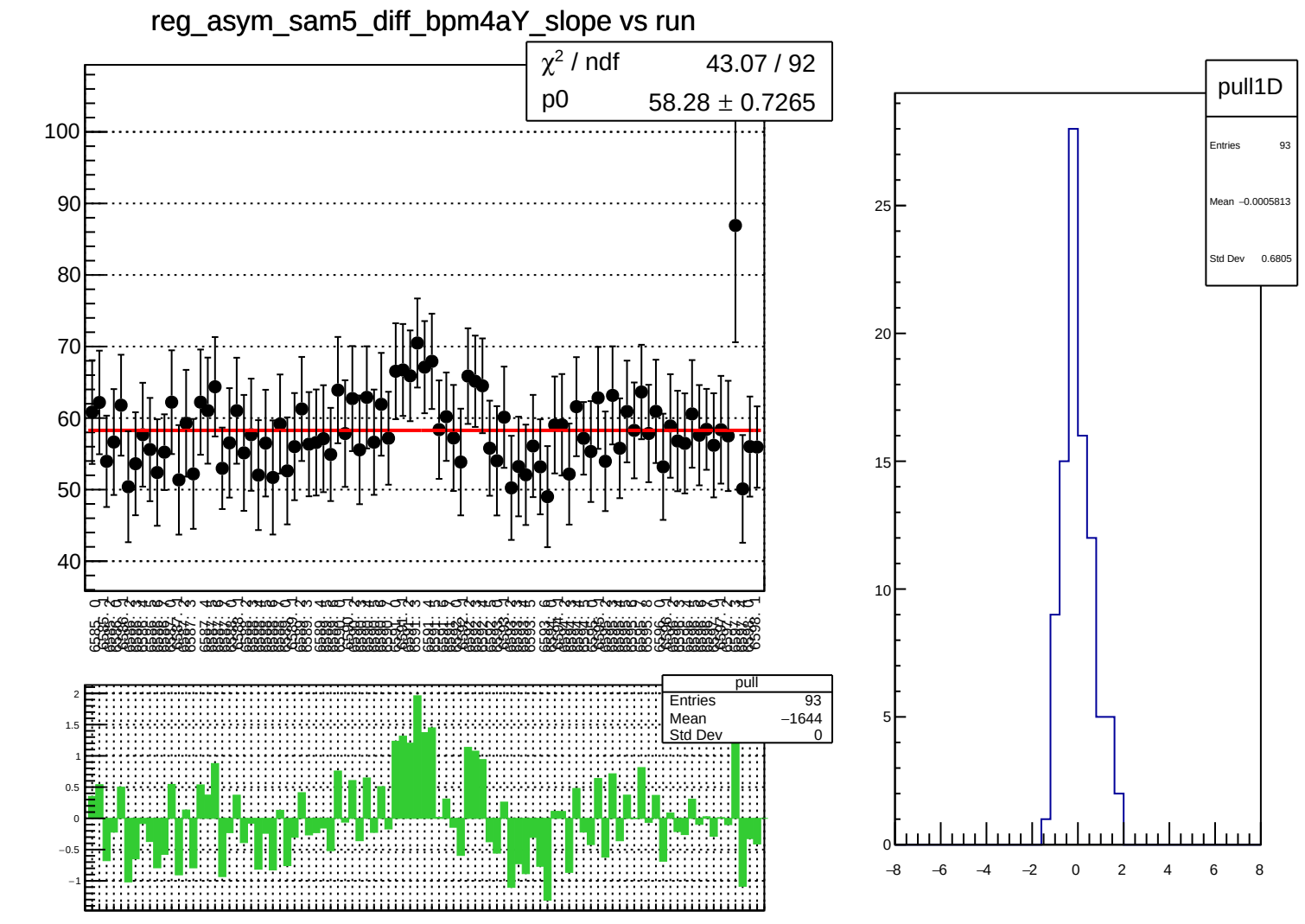

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 240.7 / 92
p0 −127.4 ± 2.085
pull
Entries 93
Mean 90.67
Std Dev 56.81

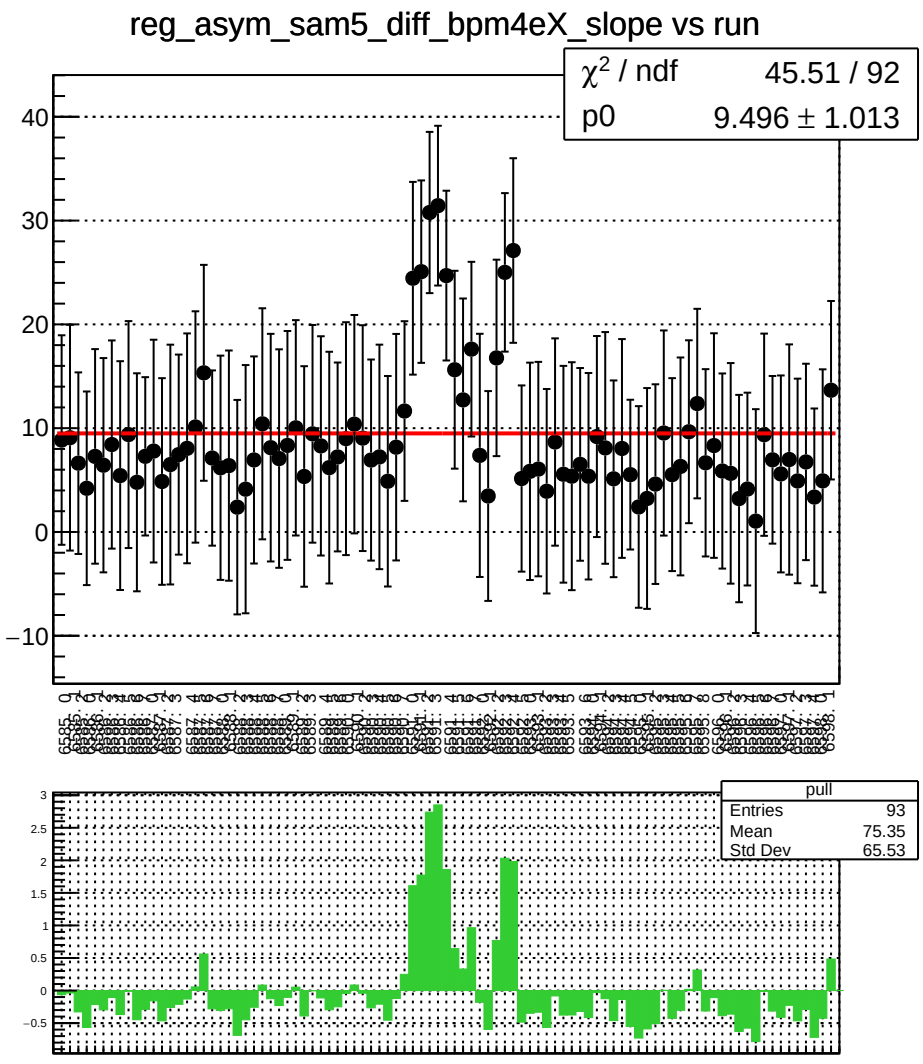

pull1D
Entries 93
Mean −0.08569
Std Dev 1.607

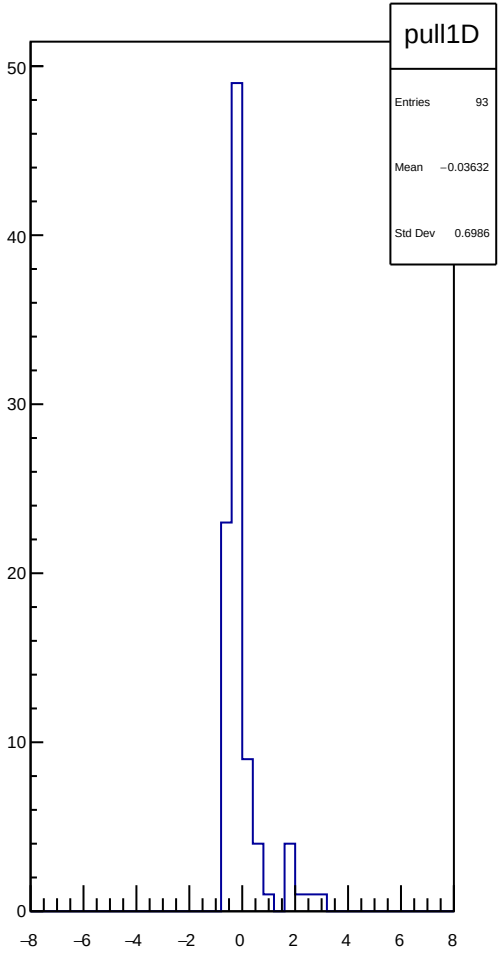

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 112 / 92
p0 206.1 ± 1.765
260
240
220
200
180
160
140
pull
Entries 93
Mean 36.72
Std Dev 104.4
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01772
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

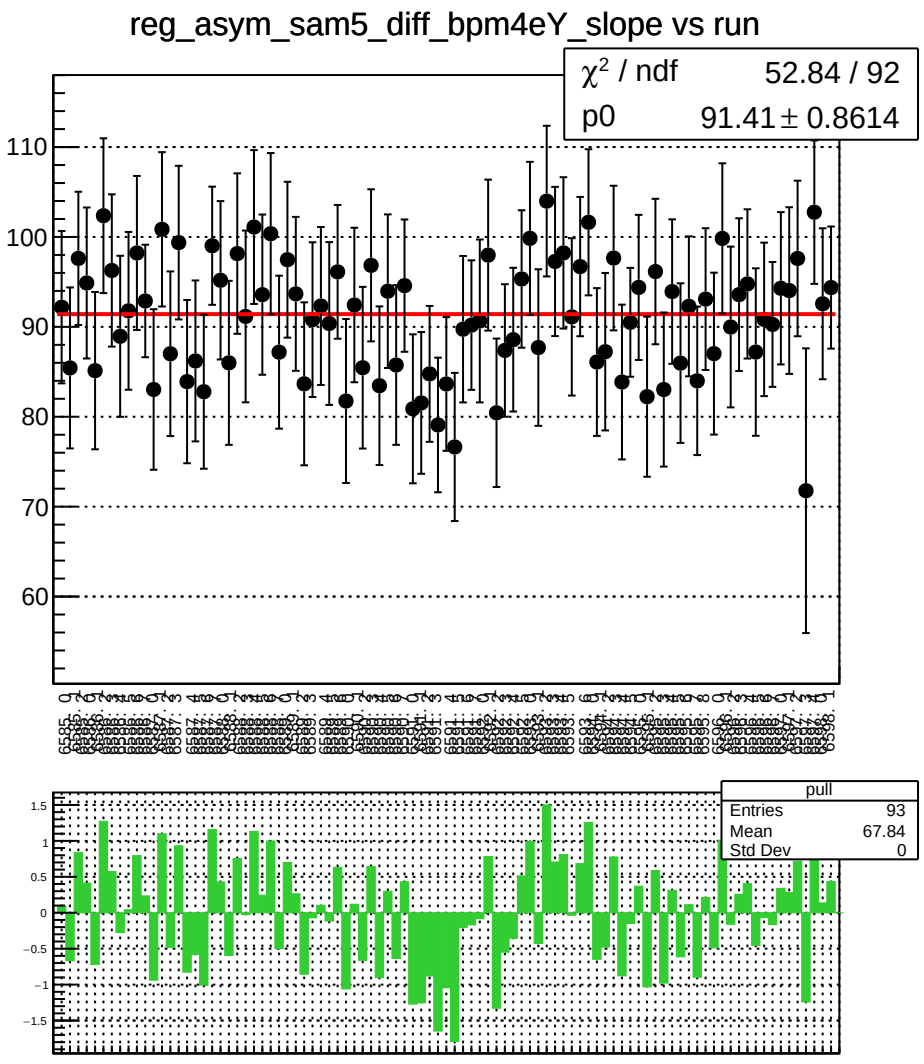

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 11.23 / 92
p0 −0.5603 ± 0.08508
pull
Entries 93
Mean −594.2
Std Dev 0
pull1D
Entries 93
Mean −0.004807
Std Dev 0.3474

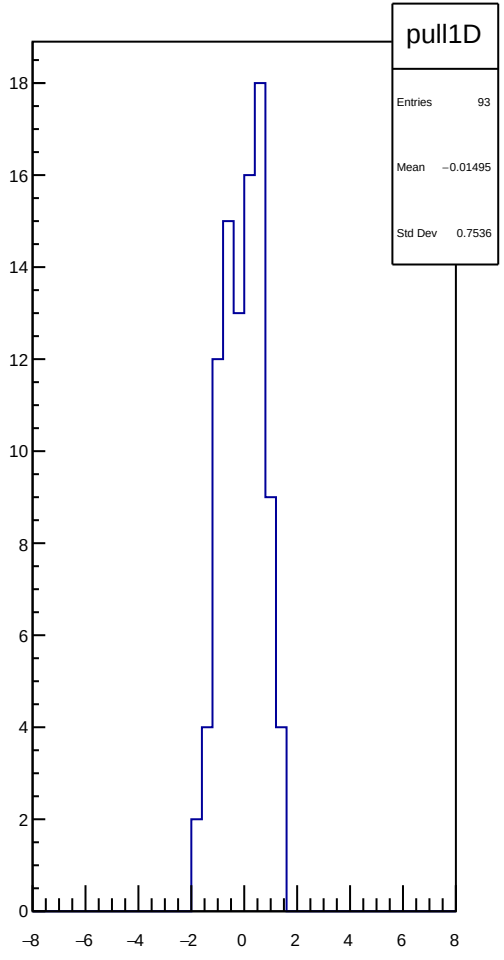

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 45.98 / 92
p0 −6.574 ± 0.987
pull
Entries 93
Mean 65.97
Std Dev 67.77
pull1D
Entries 93
Mean 0.03615
Std Dev 0.7022

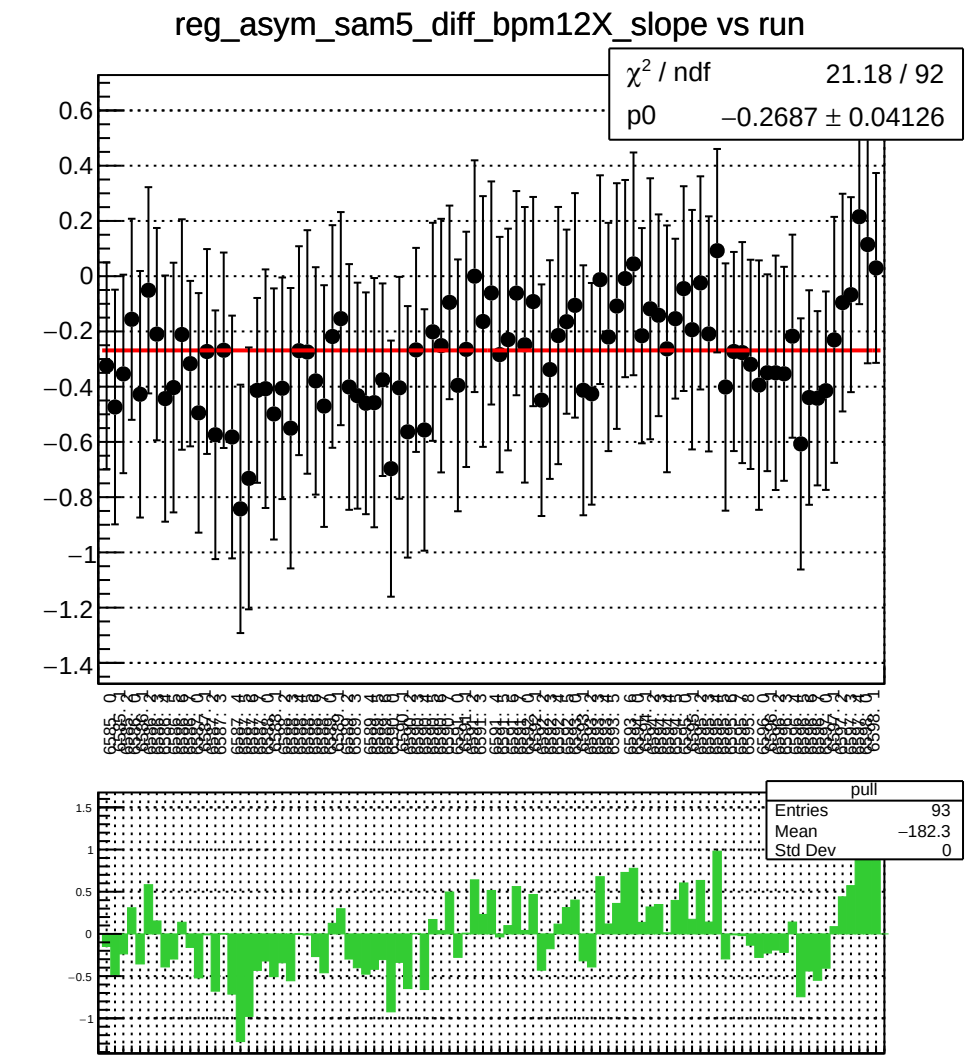

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 43.07 / 92
p0 58.28 ± 0.7265
pull
Entries 93
Mean −1644
Std Dev 0
pull1D
Entries 93
Mean −0.0005813
Std Dev 0.6805

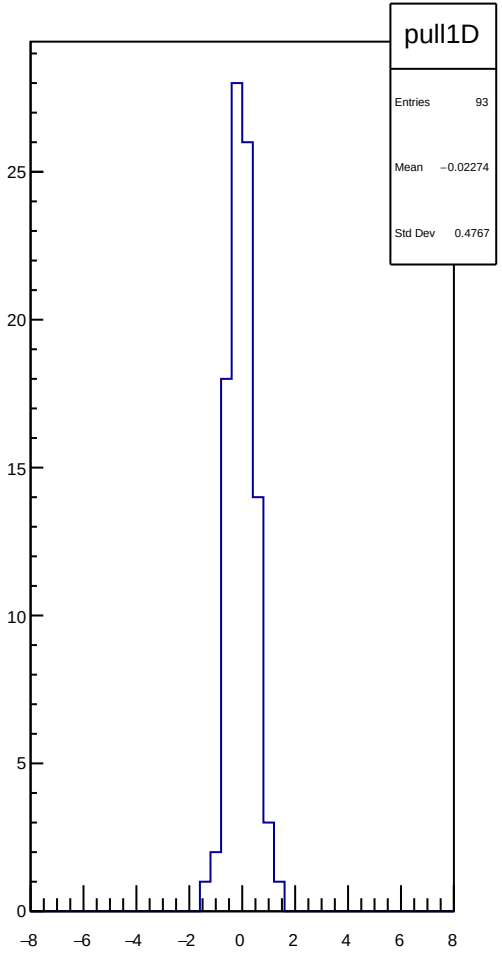

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 45.51 / 92
p0 9.496 ± 1.013
40
30
20
10
0
−10
pull
Entries 93
Mean 75.35
Std Dev 65.53
3
2.5
2
1.5
1
0.5
0
−0.5

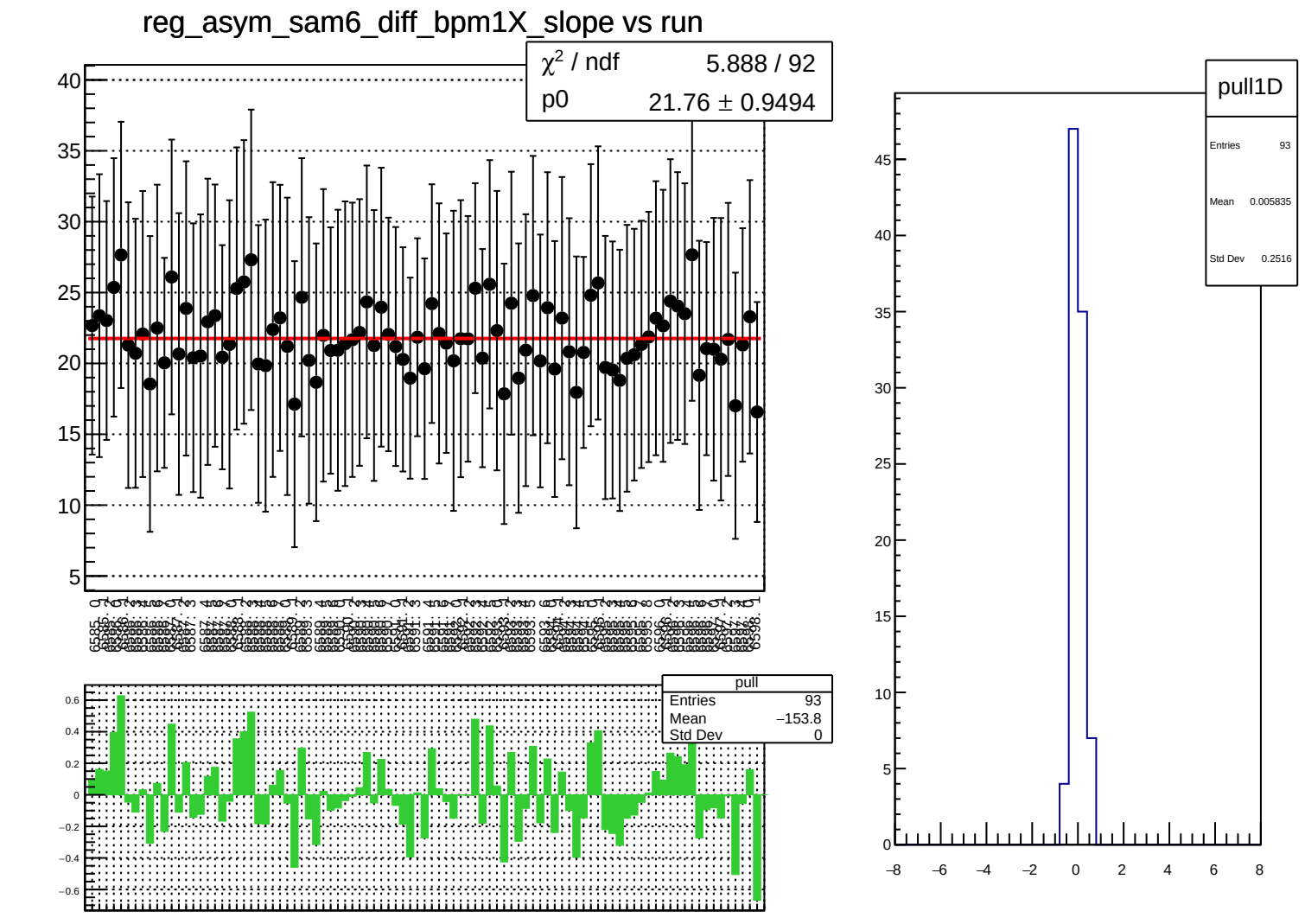

pull1D
Entries 93
Mean −0.03632
Std Dev 0.6986
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

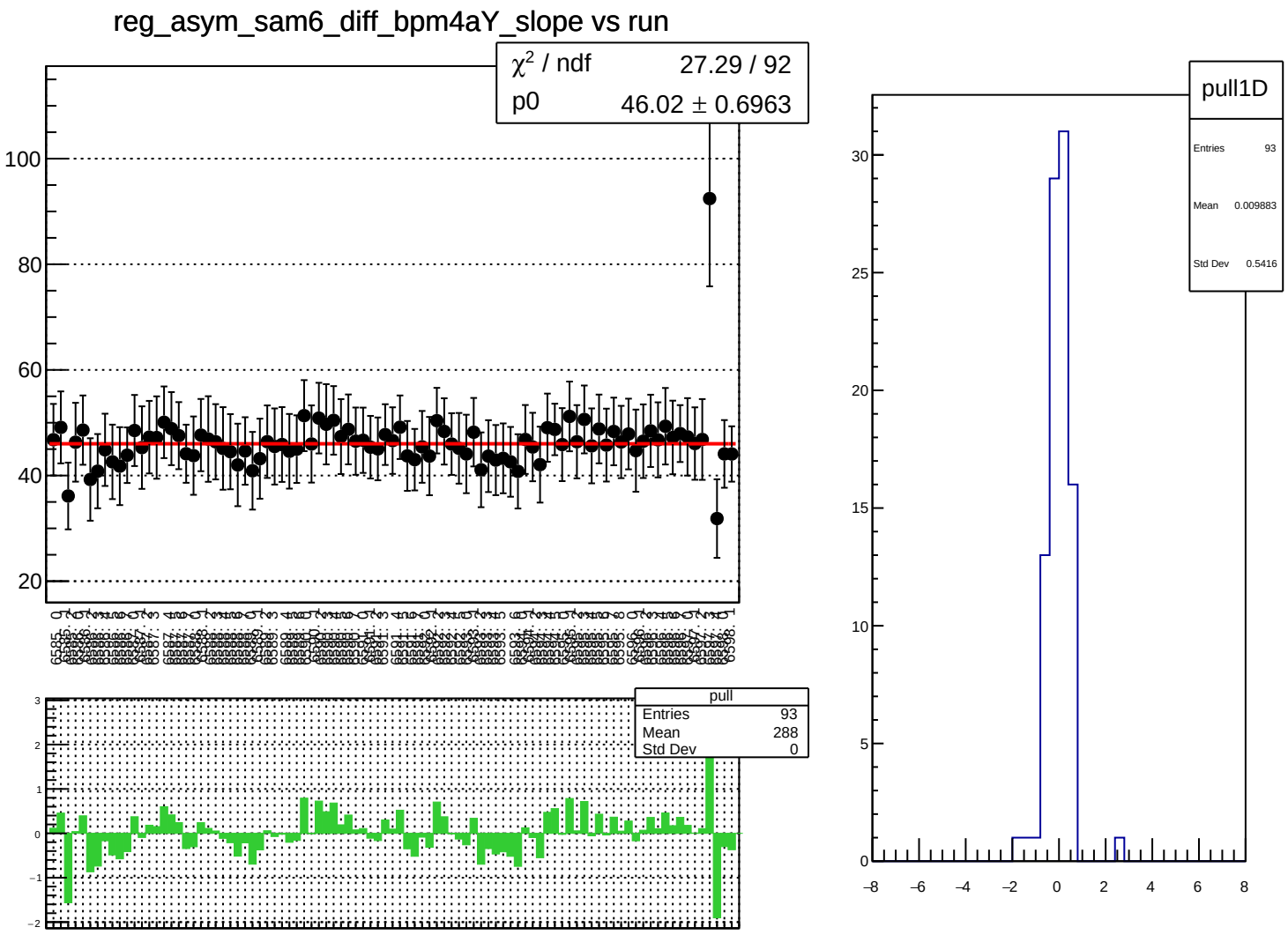

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 52.84 / 92
p0 91.41 ± 0.8614
110
100
90
80
70
60
pull
Entries 93
Mean 67.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

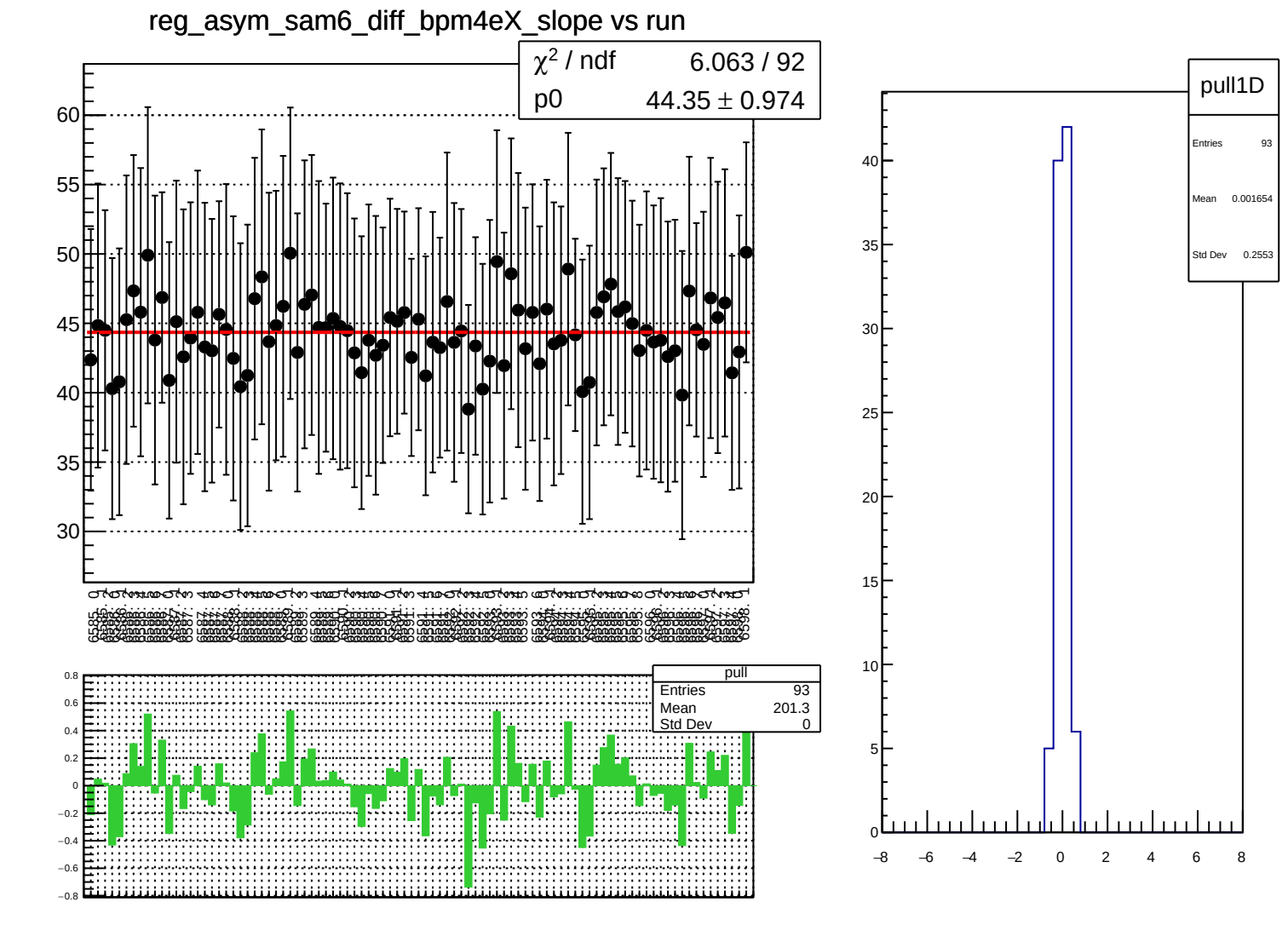

pull1D
Entries 93
Mean −0.01495
Std Dev 0.7536
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

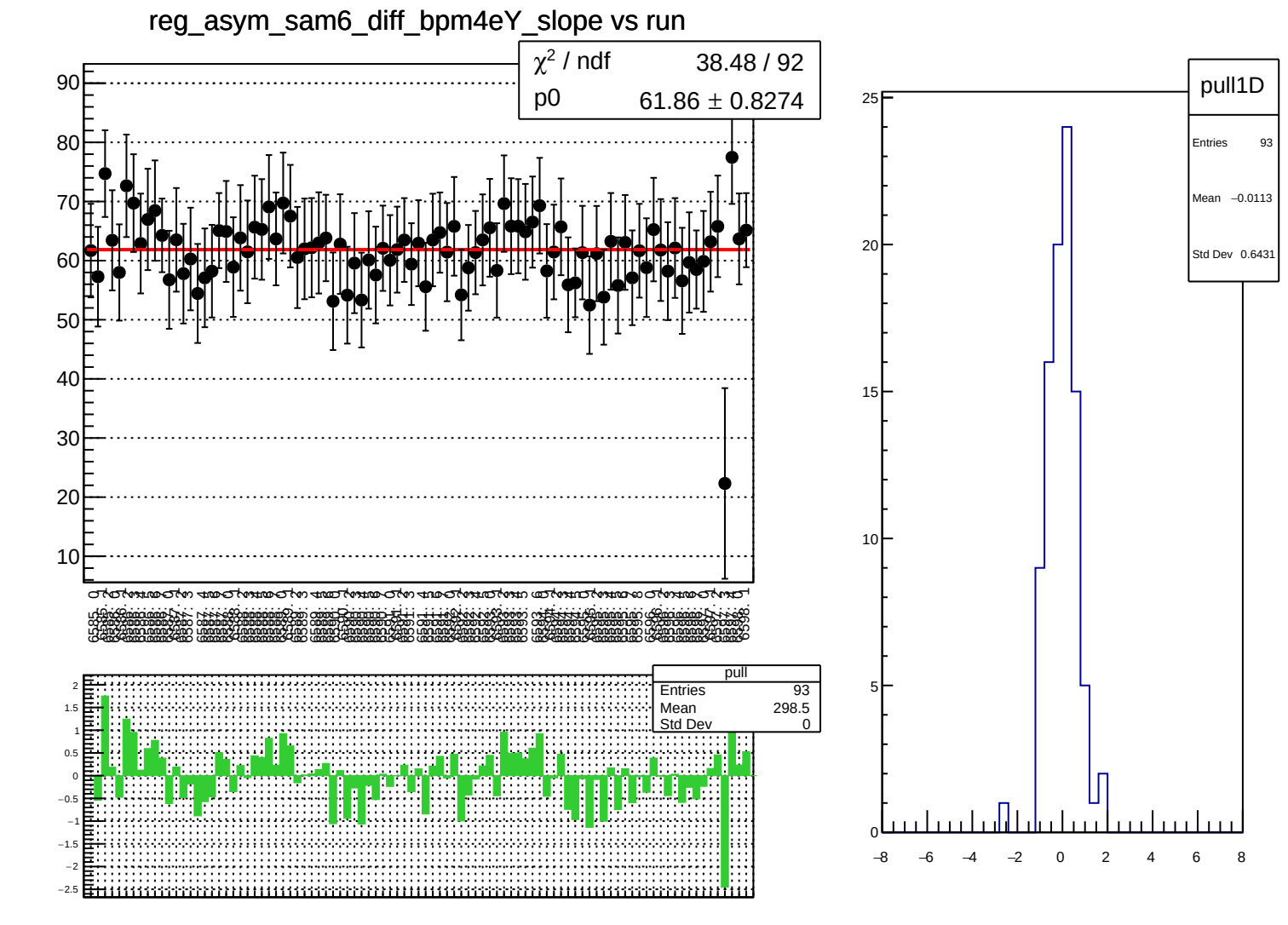

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 21.18 / 92
p0 −0.2687 ± 0.04126
pull
Entries 93
Mean −182.3
Std Dev 0

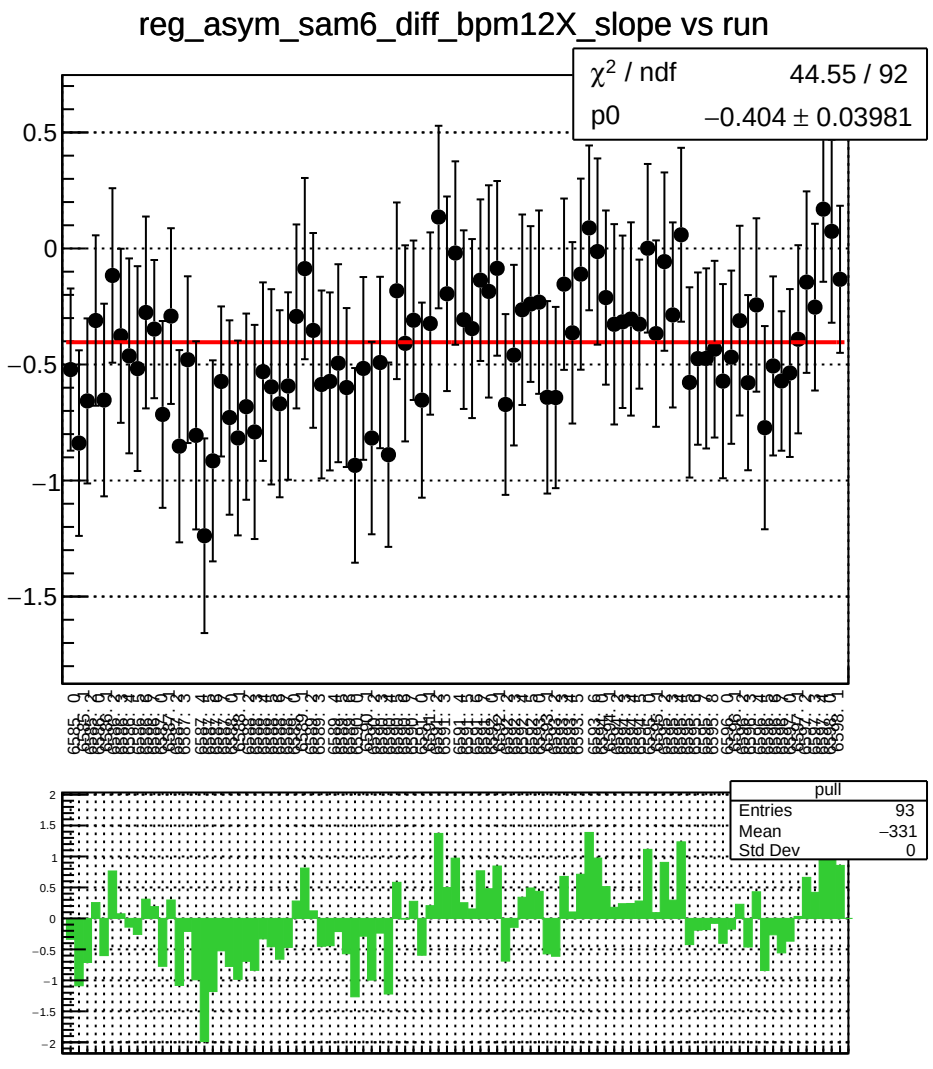

pull1D
Entries 93
Mean −0.02274
Std Dev 0.4767

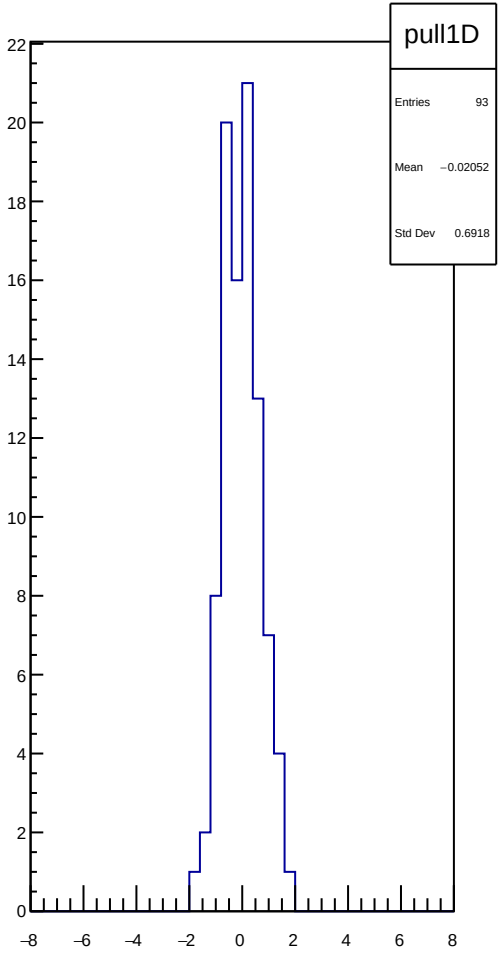

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 5.888 / 92
p0 21.76 ± 0.9494
pull
Entries 93
Mean −153.8
Std Dev 0
pull1D
Entries 93
Mean 0.005835
Std Dev 0.2516

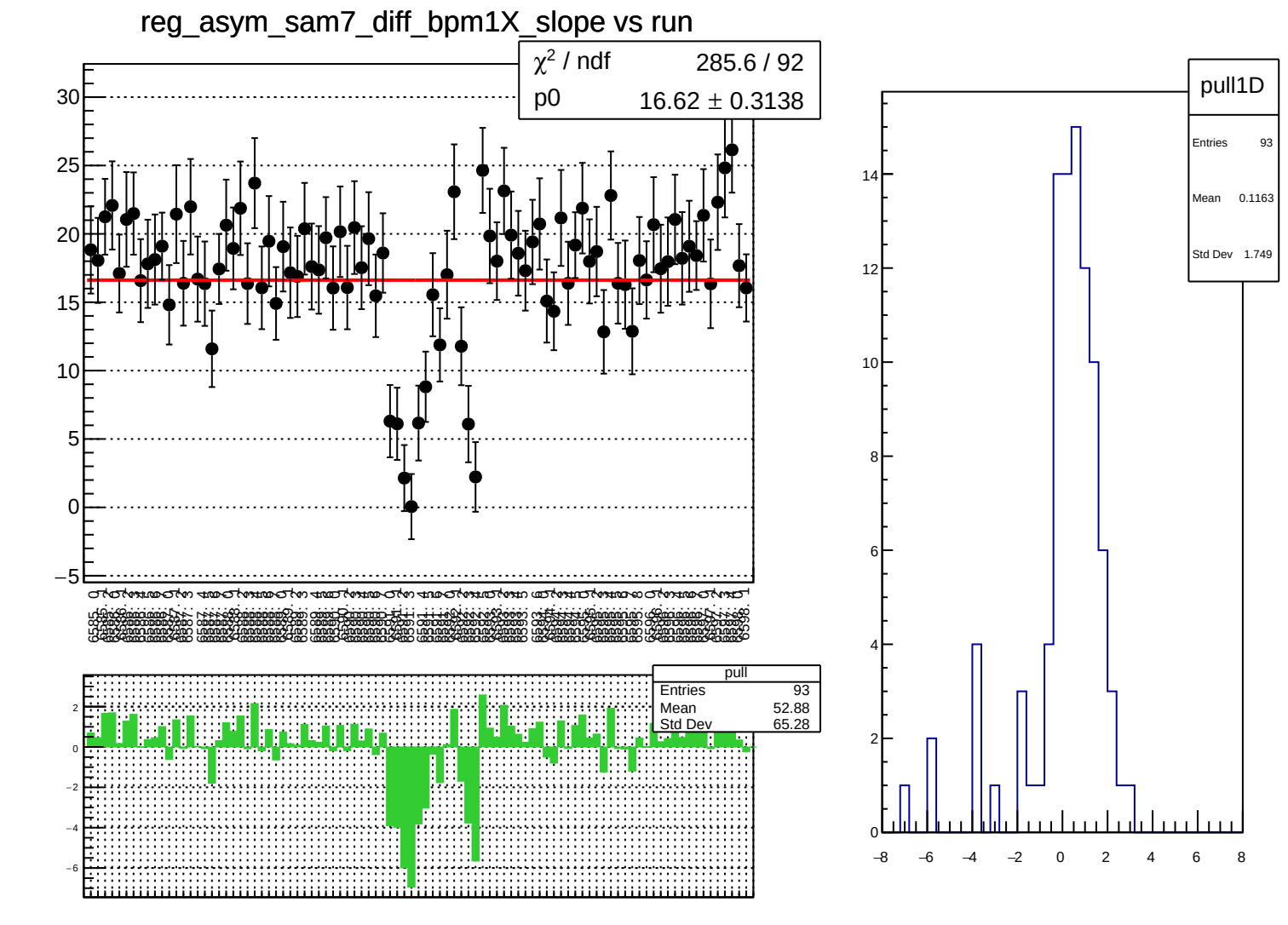

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 27.29 / 92
p0 46.02 ± 0.6963
pull
Entries 93
Mean 288
Std Dev 0
pull1D
Entries 93
Mean 0.009883
Std Dev 0.5416

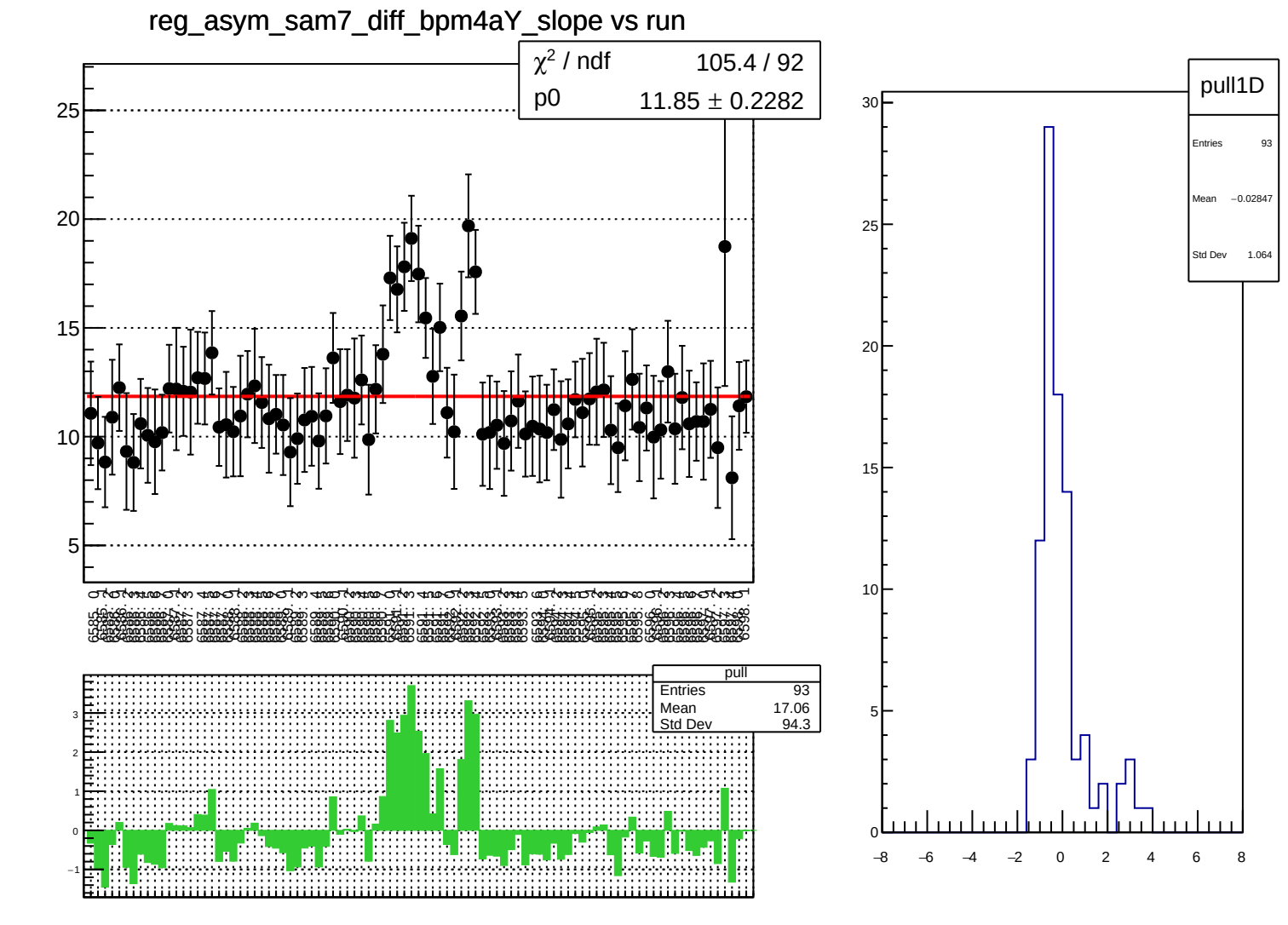

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 6.063 / 92
p0 44.35 ± 0.974
pull
Entries 93
Mean 201.3
Std Dev 0
pull1D
Entries 93
Mean 0.001654
Std Dev 0.2553

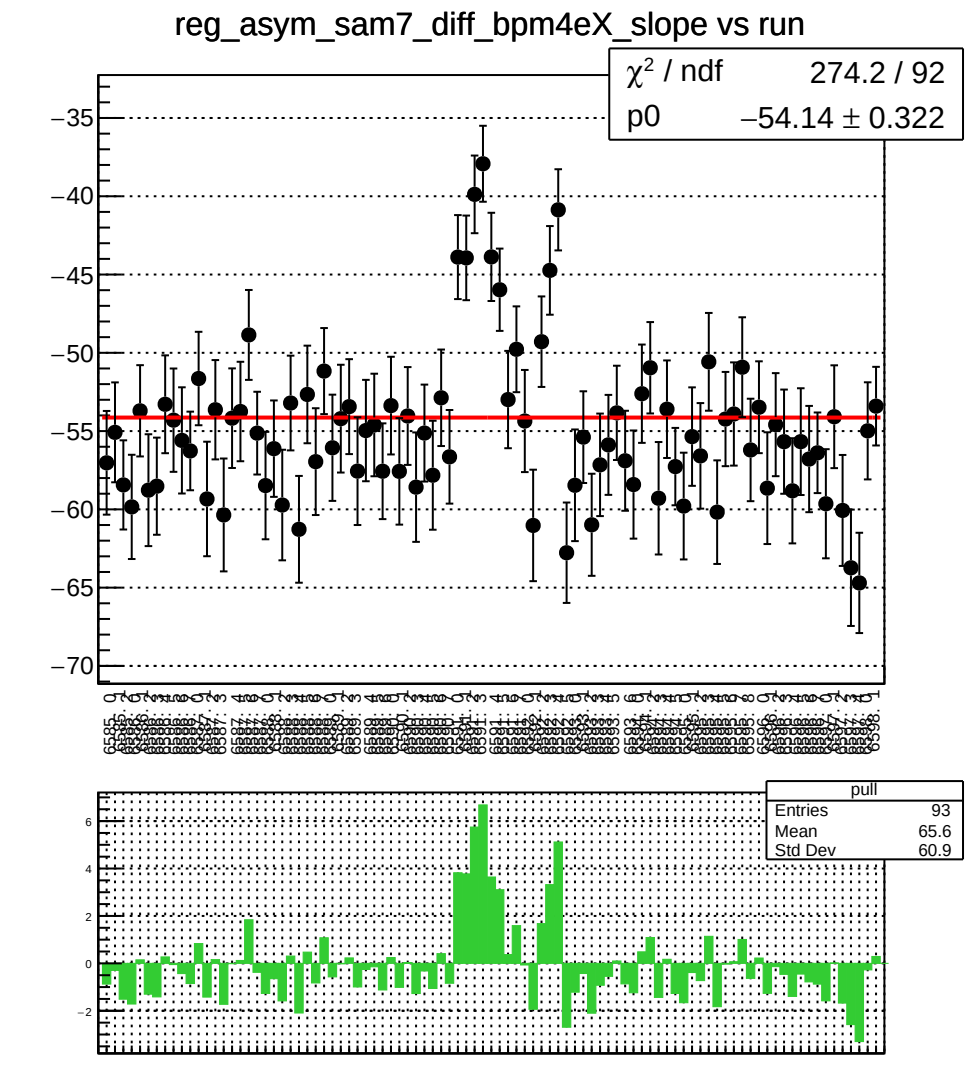

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 38.48 / 92
p0 61.86 ± 0.8274
pull
Entries 93
Mean 298.5
Std Dev 0
pull1D
Entries 93
Mean −0.0113
Std Dev 0.6431

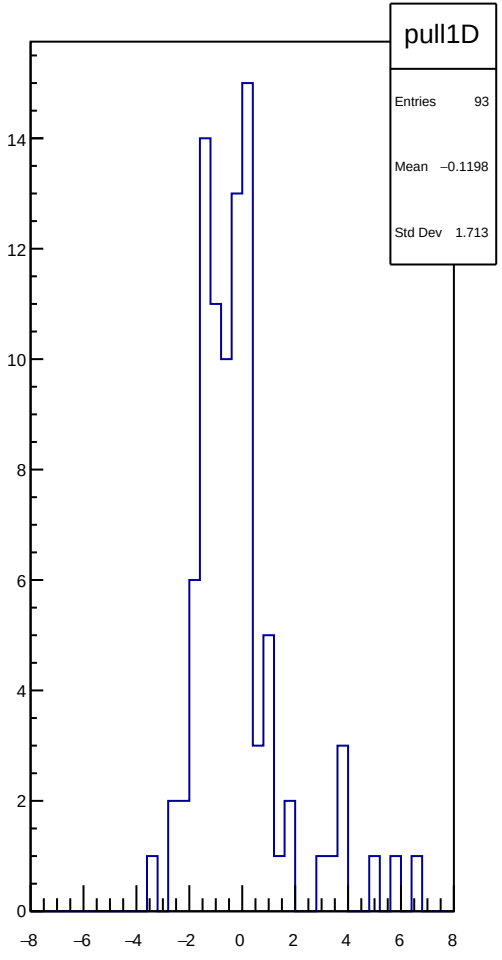

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 44.55 / 92
p0 −0.404 ± 0.03981
pull
Entries 93
Mean −331
Std Dev 0

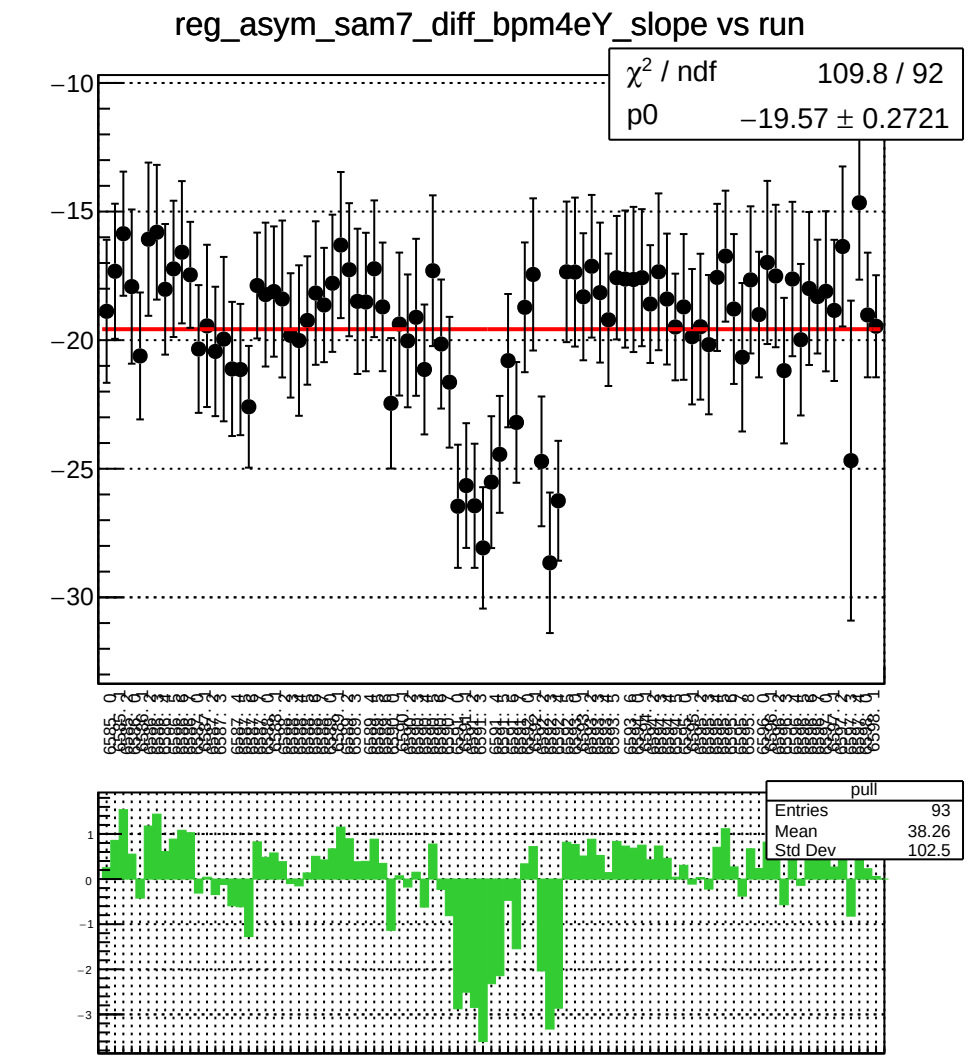

pull1D
Entries 93
Mean −0.02052
Std Dev 0.6918

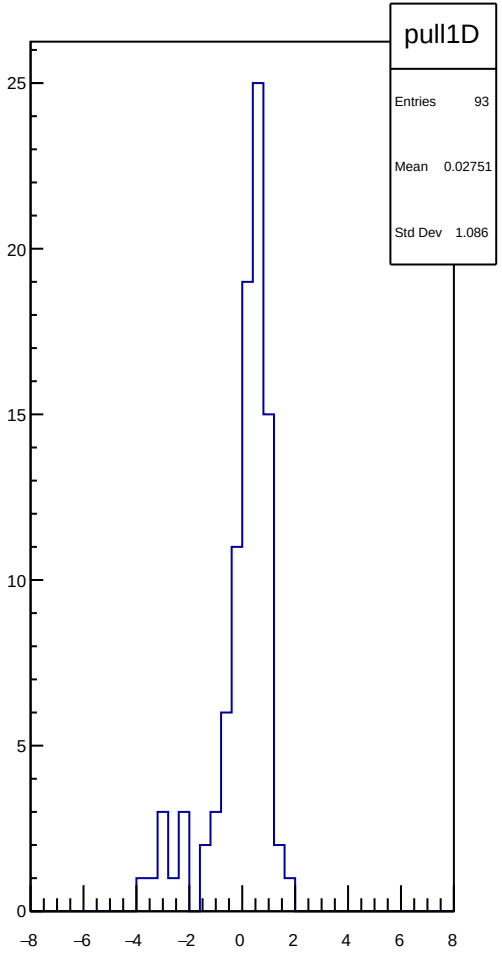

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 285.6 / 92
p0 16.62 ± 0.3138
pull
Entries 93
Mean 52.88
Std Dev 65.28
pull1D
Entries 93
Mean 0.1163
Std Dev 1.749

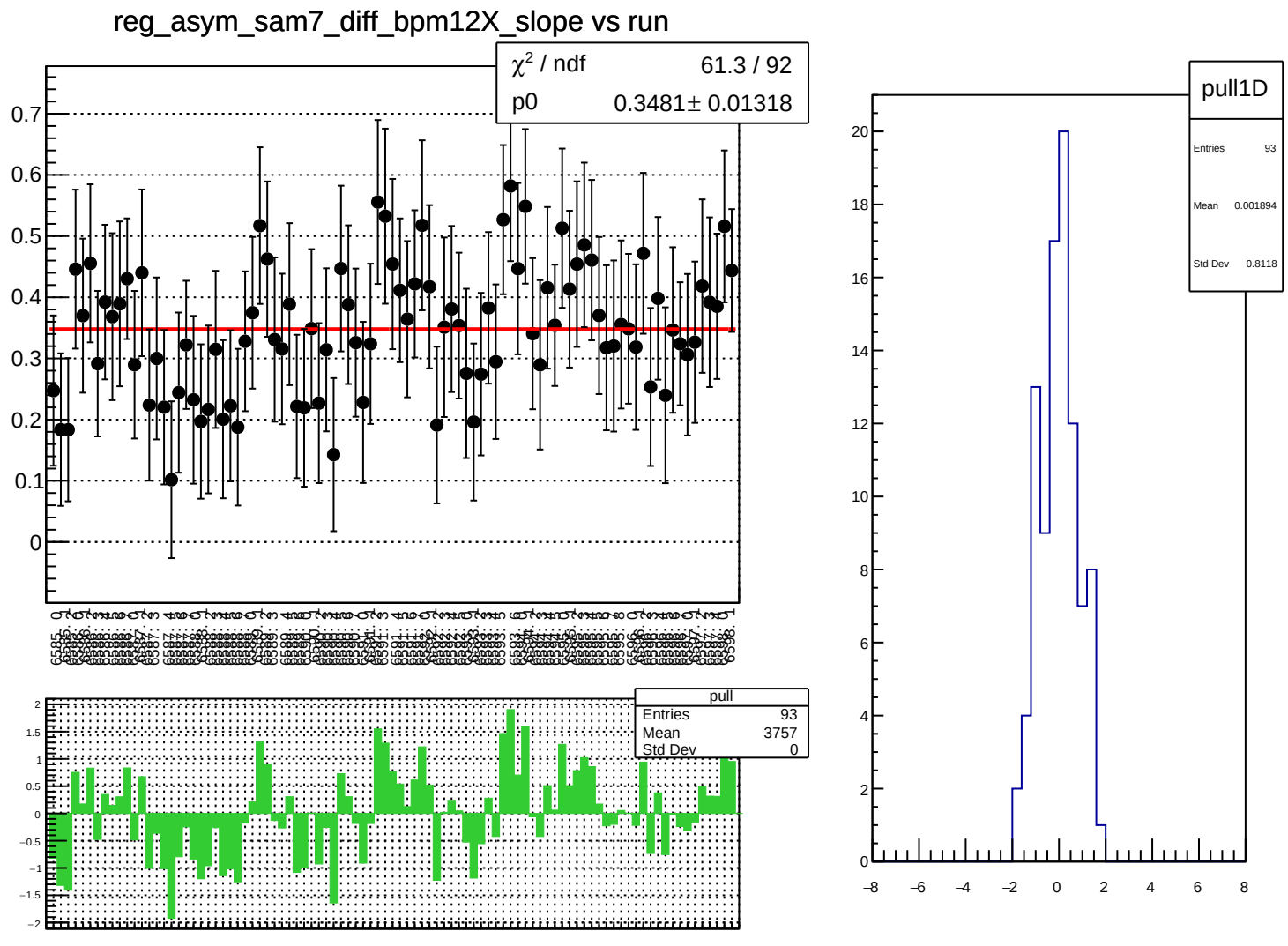

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 105.4 / 92
p0 11.85 ± 0.2282
pull
Entries 93
Mean 17.06
Std Dev 94.3
pull1D
Entries 93
Mean −0.02847
Std Dev 1.064

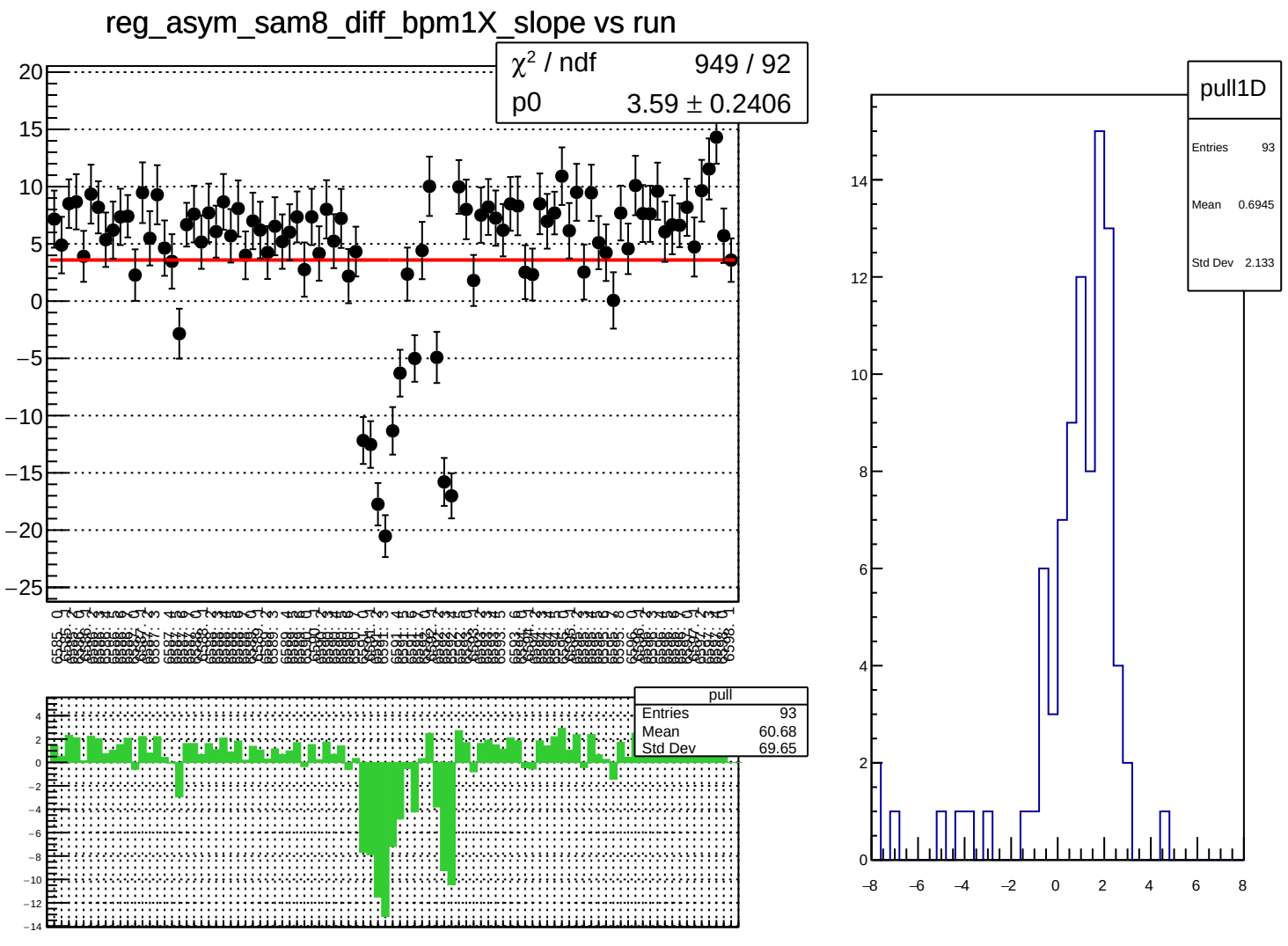

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 274.2 / 92
p0 −54.14 ± 0.322
pull
Entries 93
Mean 65.6
Std Dev 60.9

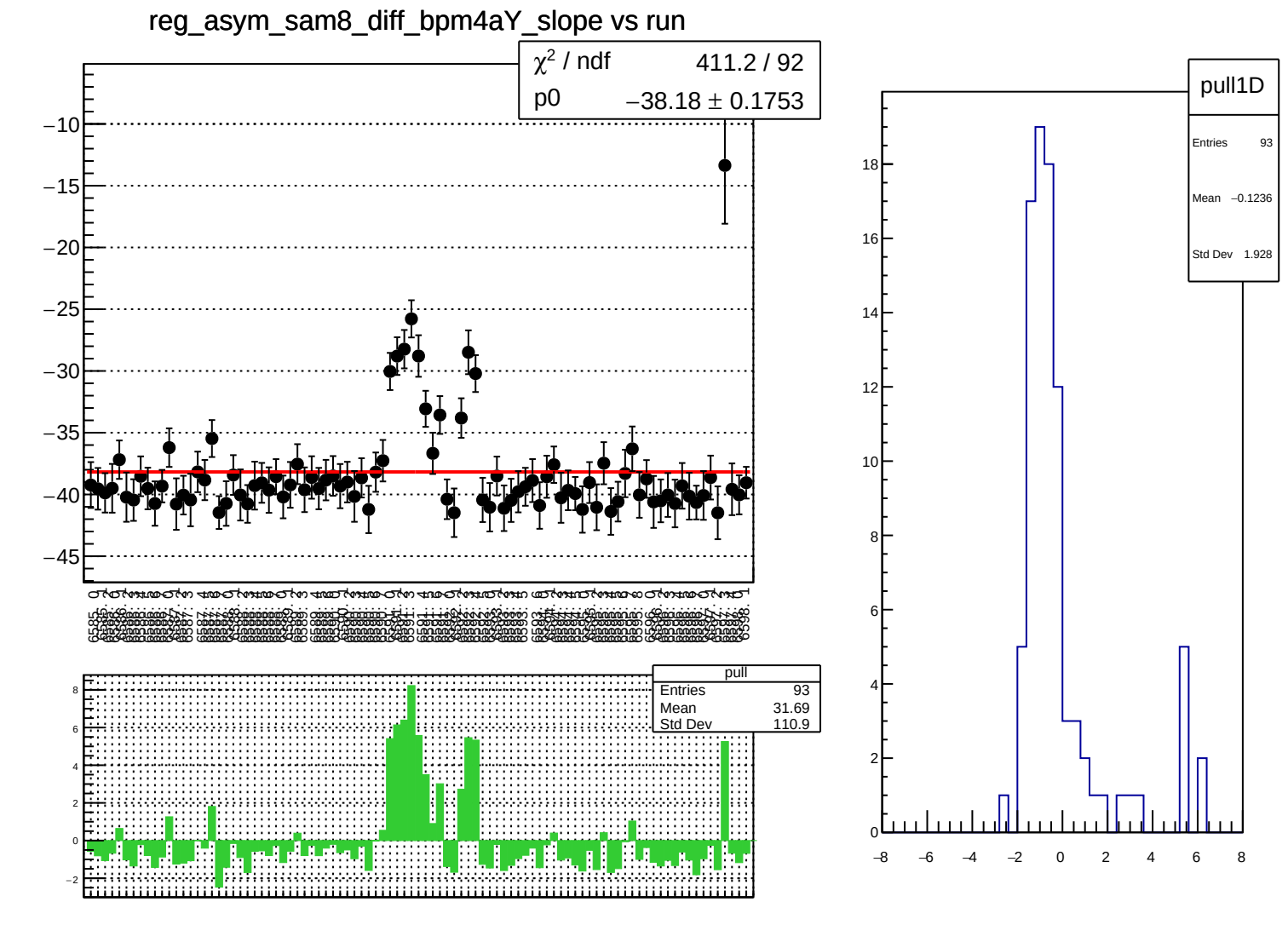

pull1D
Entries 93
Mean −0.1198
Std Dev 1.713

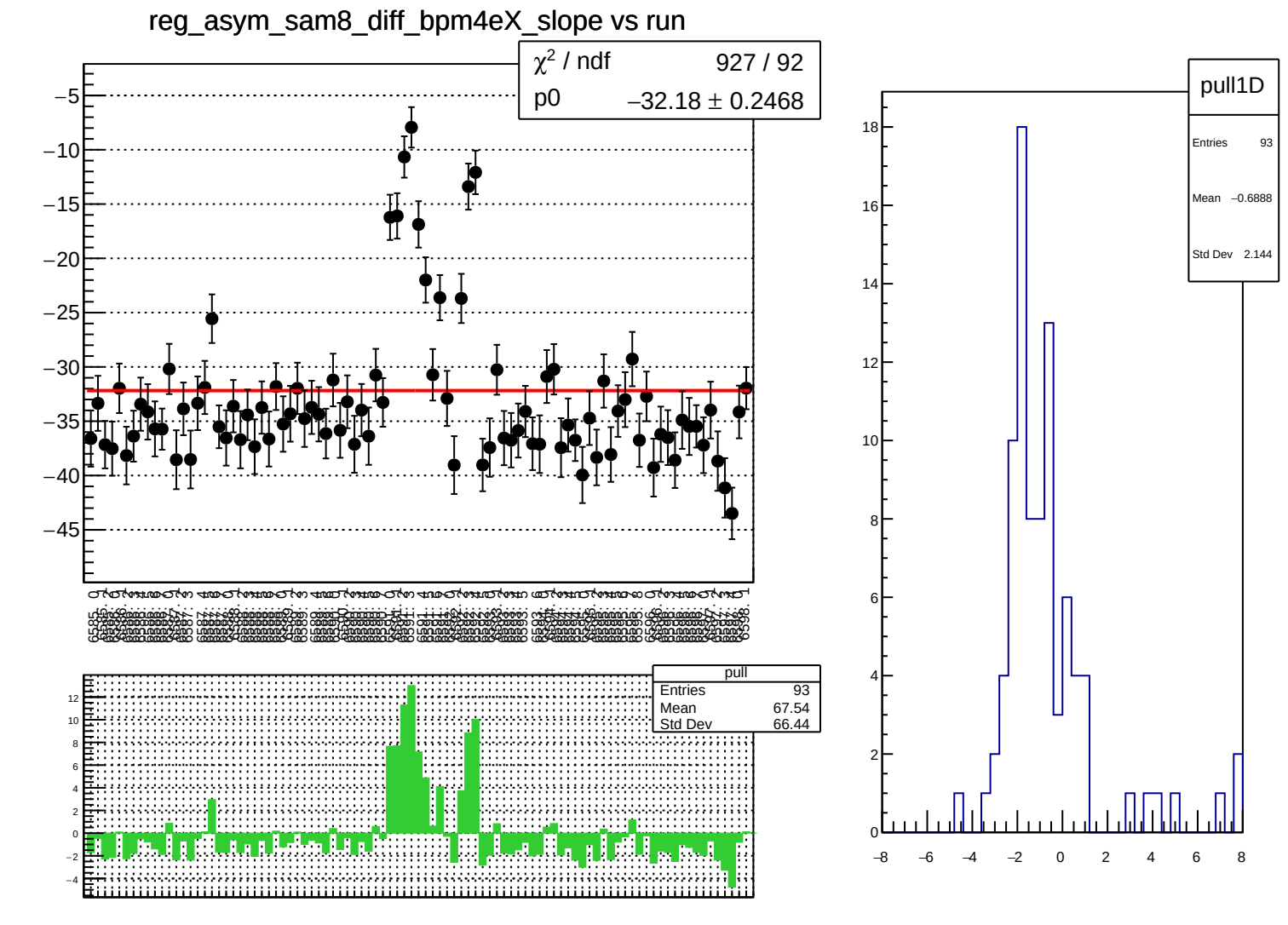

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 109.8 / 92
p0 −19.57 ± 0.2721
pull
Entries 93
Mean 38.26
Std Dev 102.5

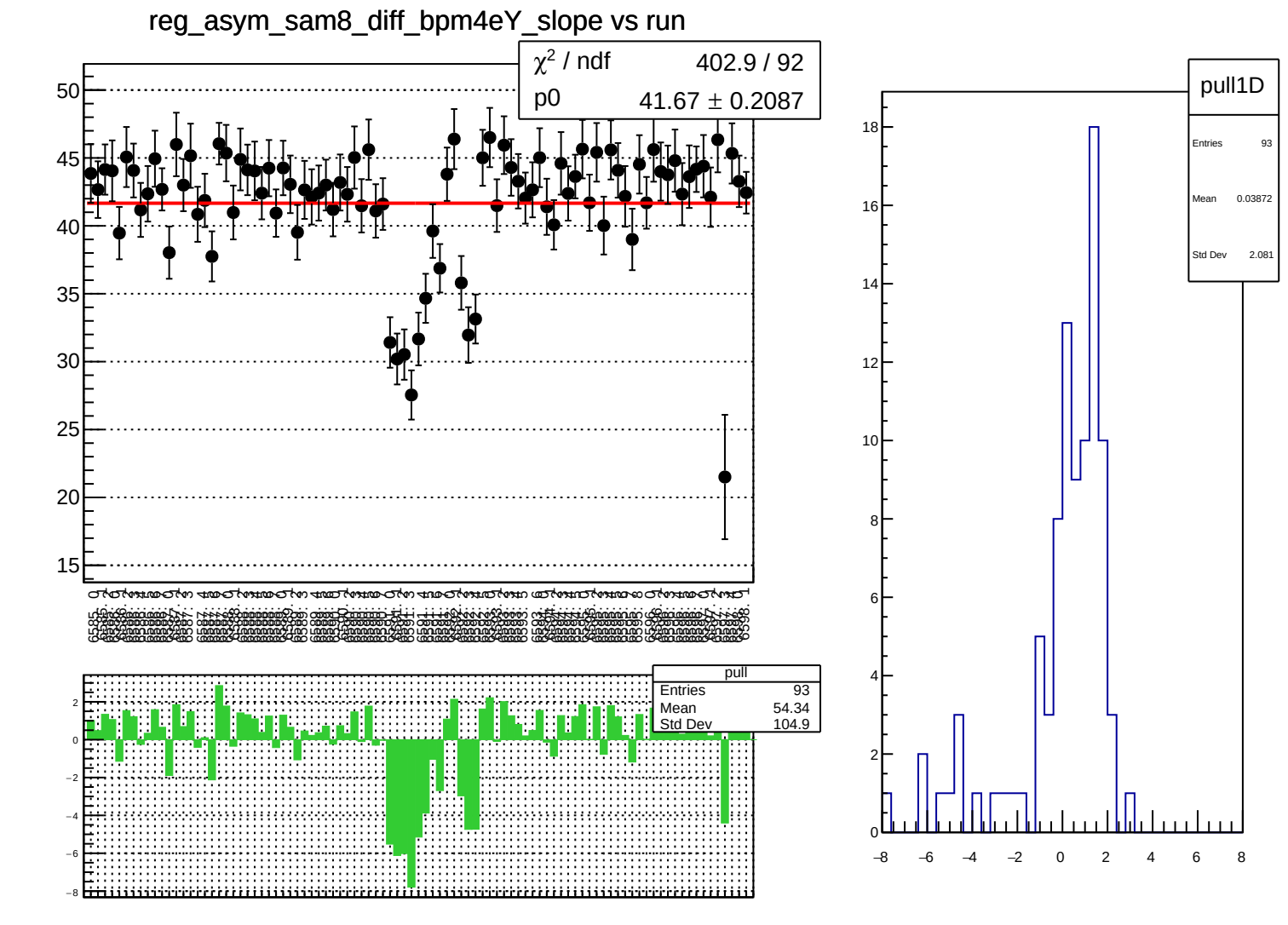

pull1D
Entries 93
Mean 0.02751
Std Dev 1.086

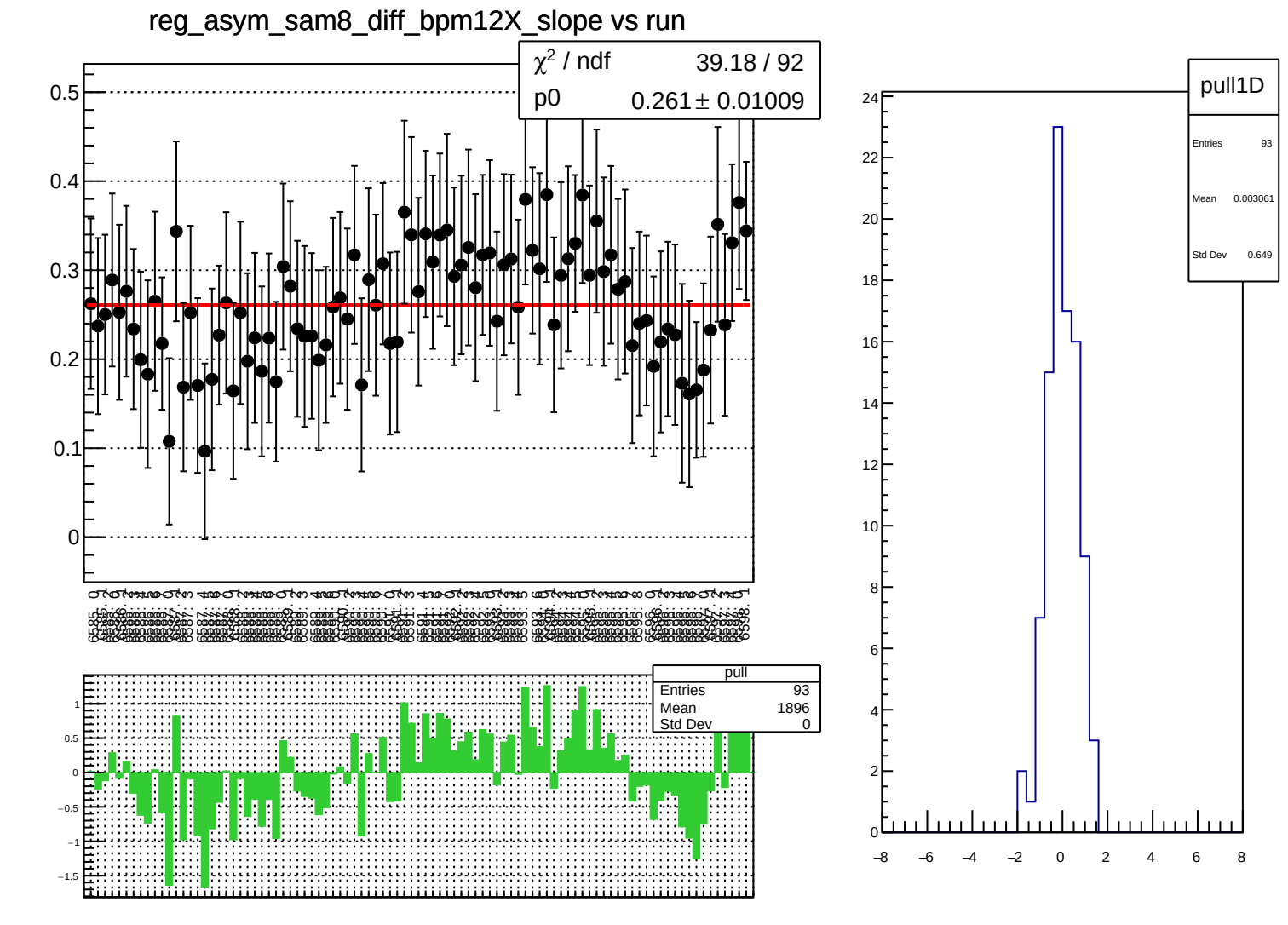

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 61.3 / 92
p0 0.3481± 0.01318
pull
Entries 93
Mean 3757
Std Dev 0
pull1D
Entries 93
Mean 0.001894
Std Dev 0.8118

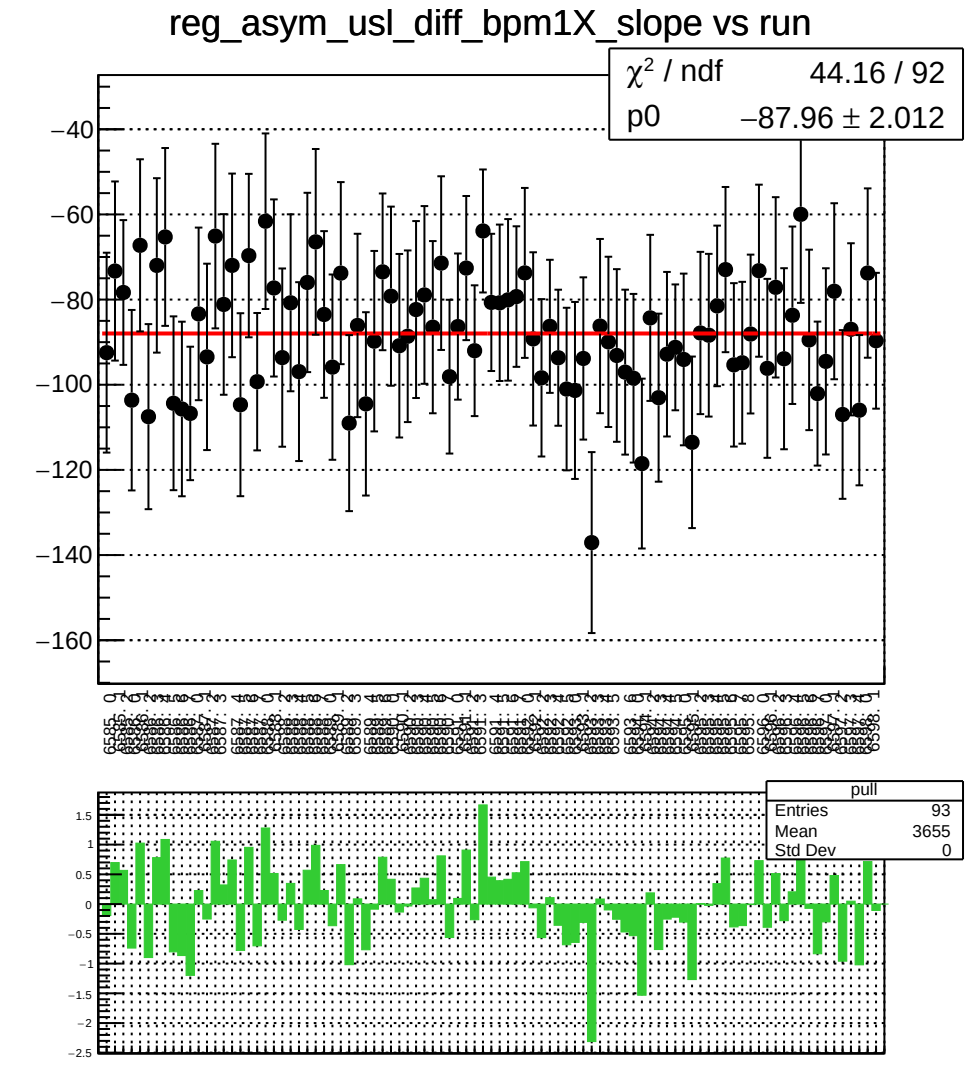

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 949 / 92
p0 3.59 ± 0.2406
pull
Entries 93
Mean 60.68
Std Dev 69.65
pull1D
Entries 93
Mean 0.6945
Std Dev 2.133

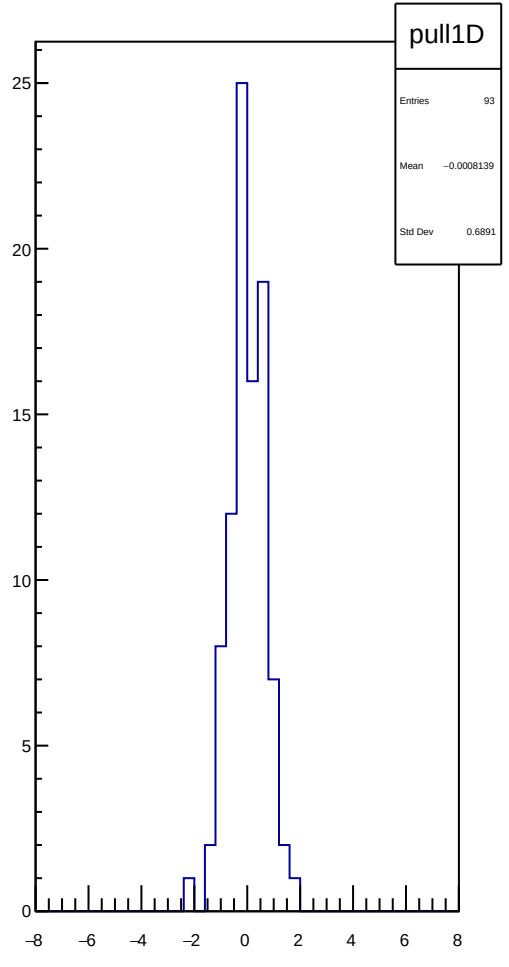

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 411.2 / 92
p0 −38.18 ± 0.1753
pull
Entries 93
Mean 31.69
Std Dev 110.9
pull1D
Entries 93
Mean −0.1236
Std Dev 1.928

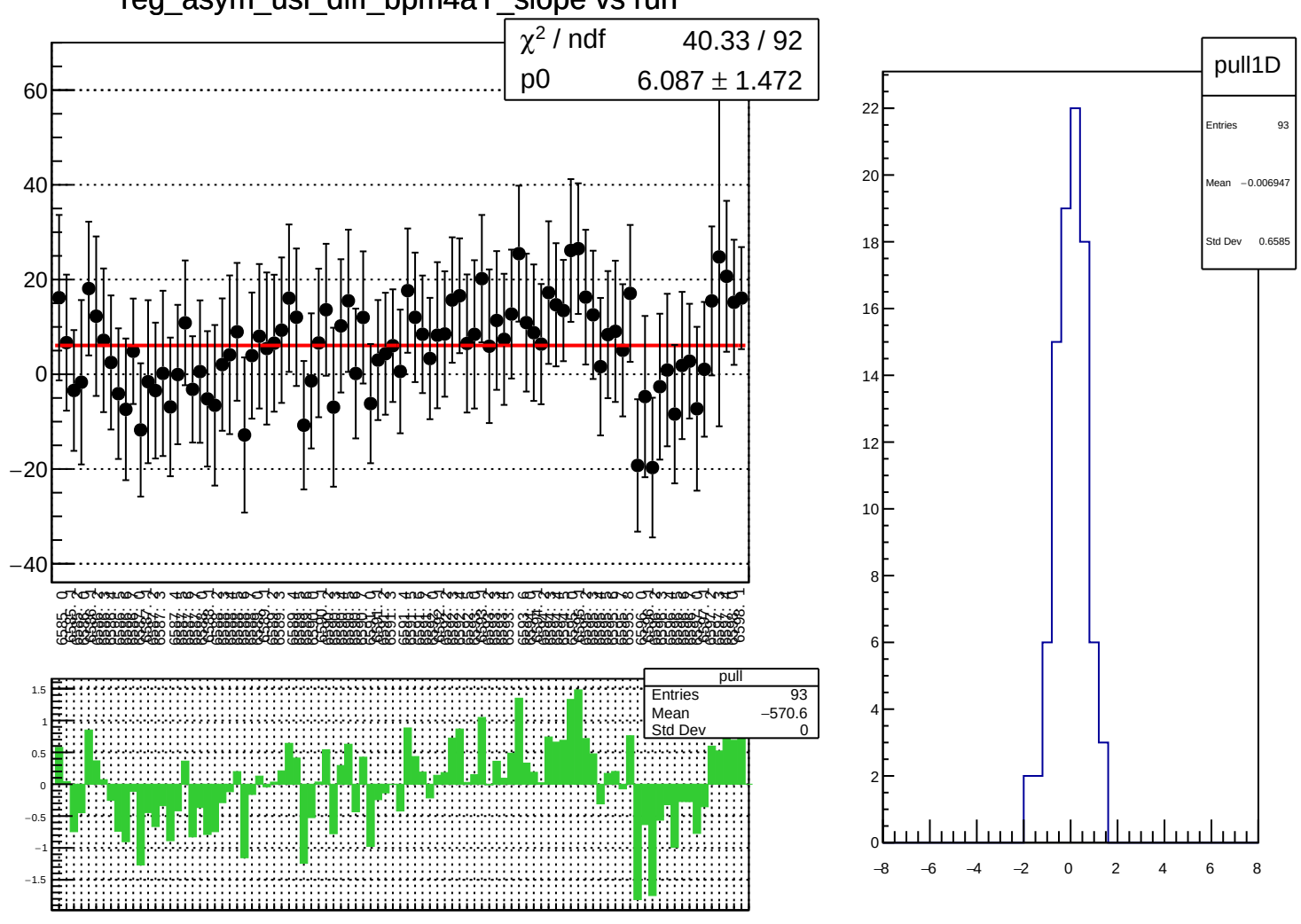

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 927 / 92
p0 −32.18 ± 0.2468
pull
Entries 93
Mean 67.54
Std Dev 66.44
pull1D
Entries 93
Mean −0.6888
Std Dev 2.144

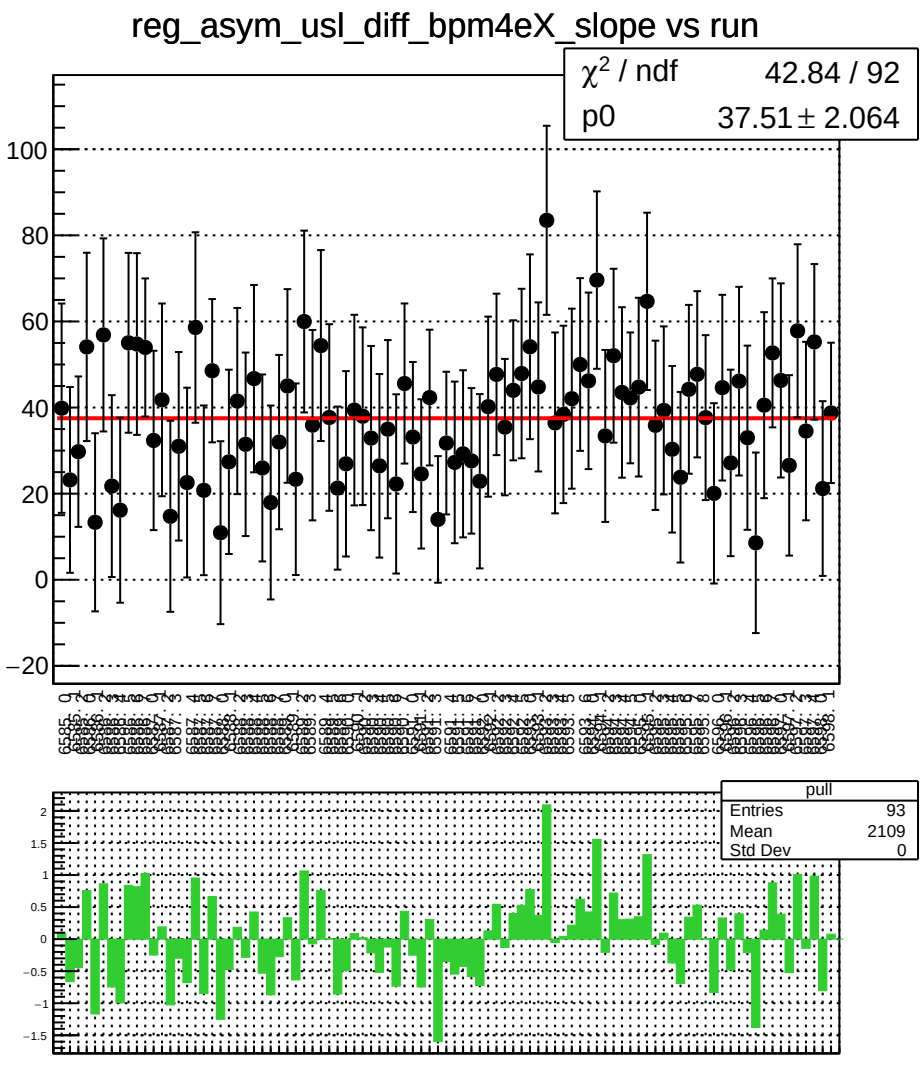

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 402.9 / 92
p0 41.67 ± 0.2087
pull
Entries 93
Mean 54.34
Std Dev 104.9
pull1D
Entries 93
Mean 0.03872
Std Dev 2.081

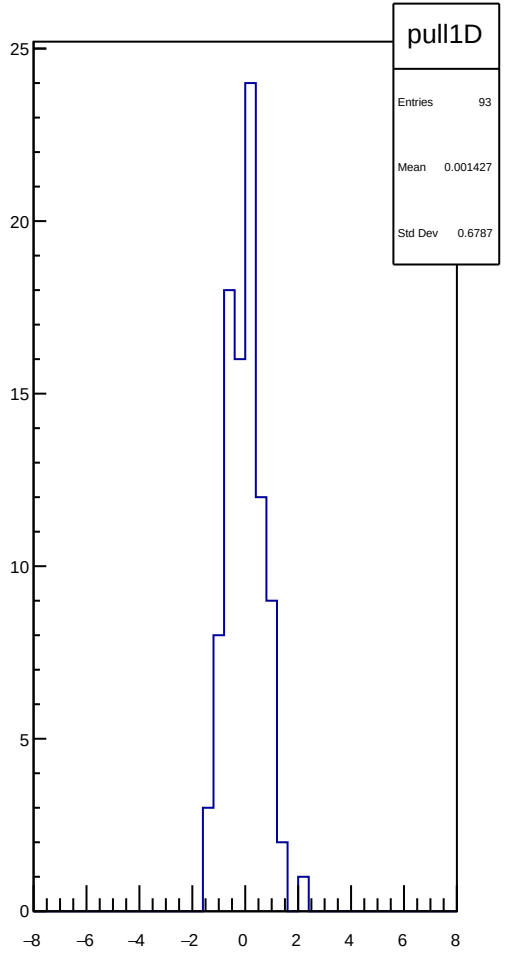

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 39.18 / 92
p0 0.261 ± 0.01009
pull
Entries 93
Mean 1896
Std Dev 0
pull1D
Entries 93
Mean 0.003061
Std Dev 0.649

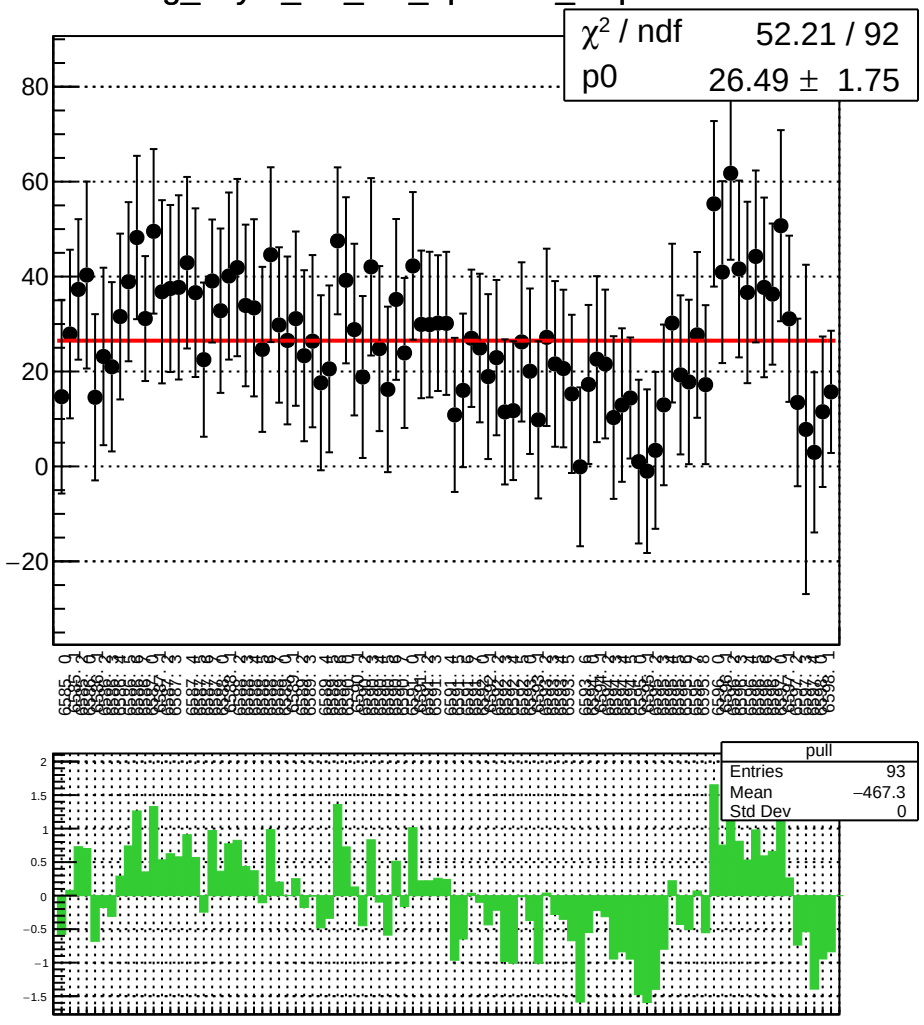

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 44.16 / 92
p0 −87.96 ± 2.012
−40
−60
−80
−100
−120
−140
−160
pull
Entries 93
Mean 3655
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

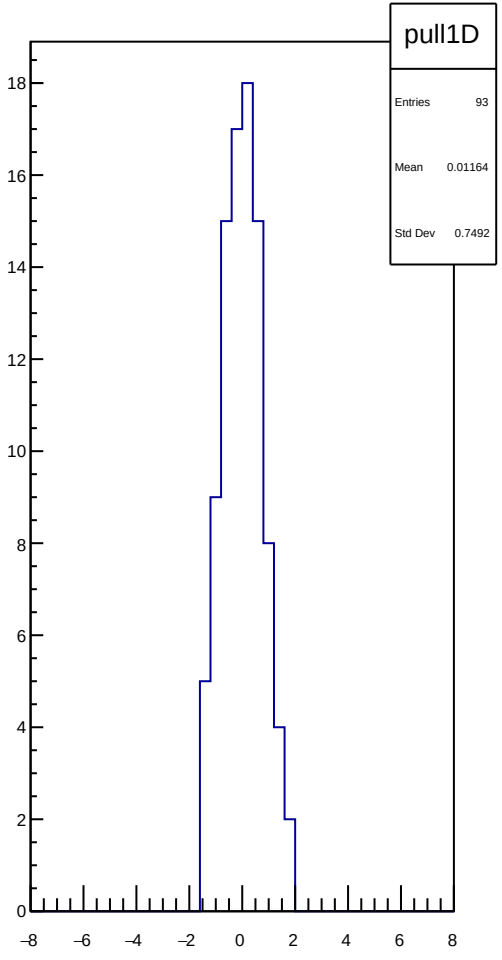

pull1D
Entries 93
Mean −0.0008139
Std Dev 0.6891
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

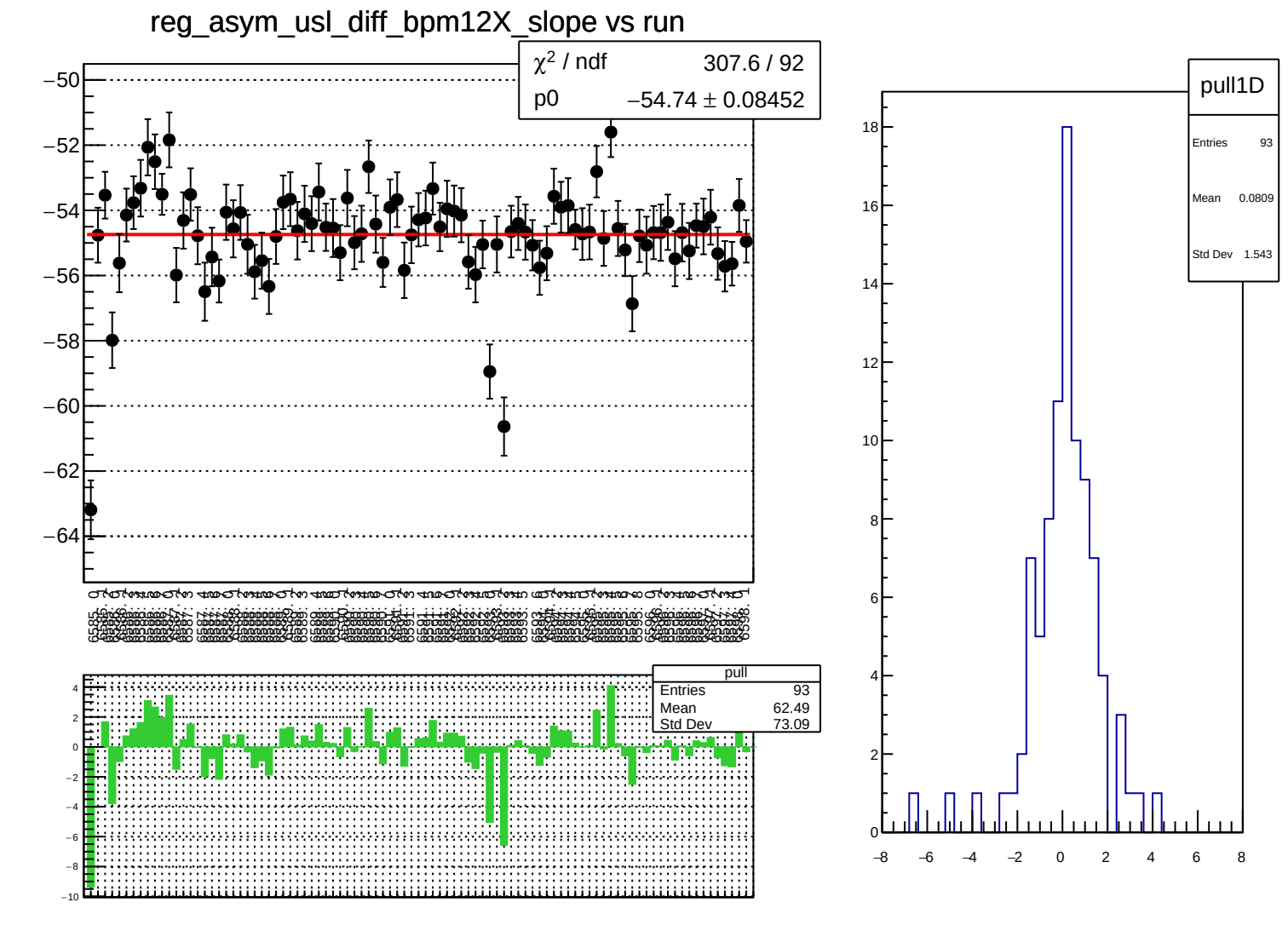

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 40.33 / 92
p0 6.087 ± 1.472
pull
Entries 93
Mean −570.6
Std Dev 0
pull1D
Entries 93
Mean −0.006947
Std Dev 0.6585

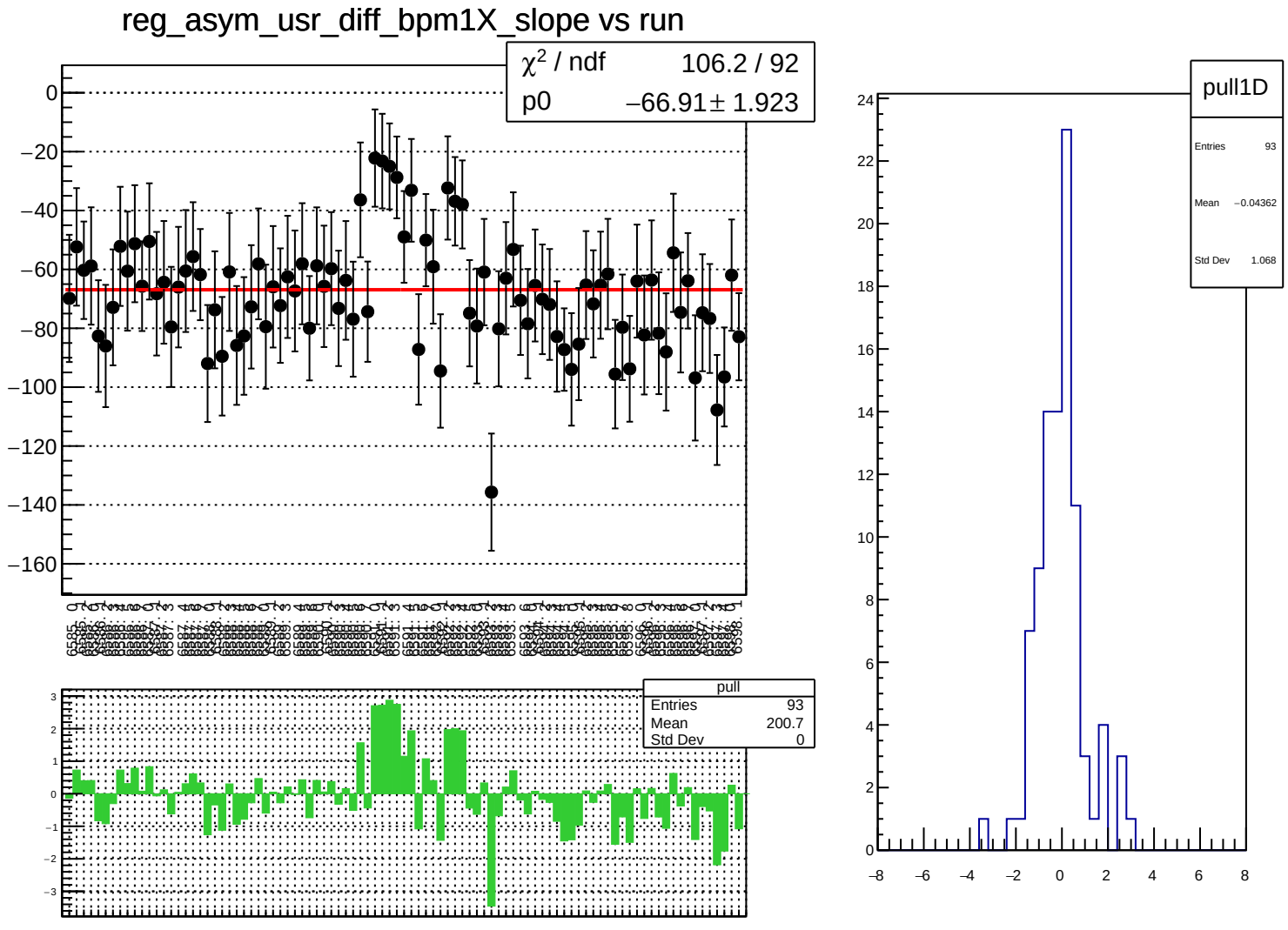

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 42.84 / 92
p0 37.51 ± 2.064
pull
Entries 93
Mean 2109
Std Dev 0

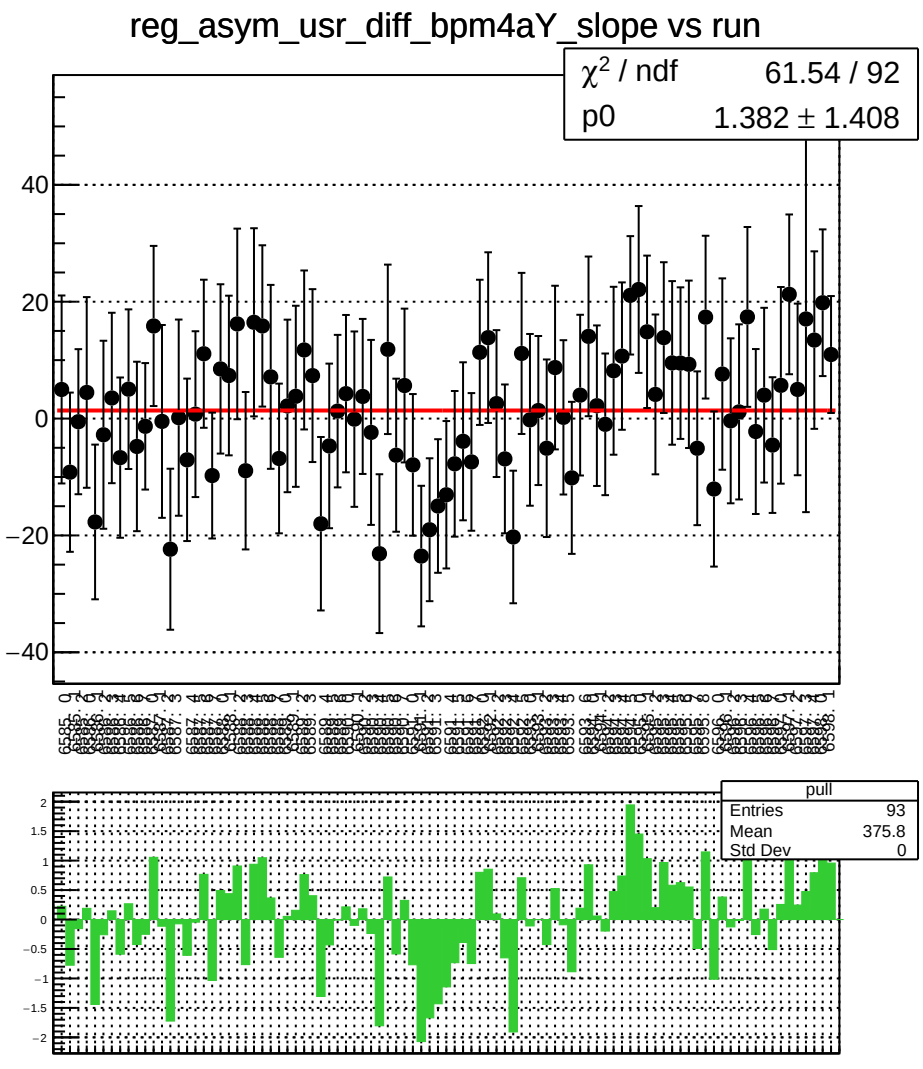

pull1D
Entries 93
Mean 0.001427
Std Dev 0.6787

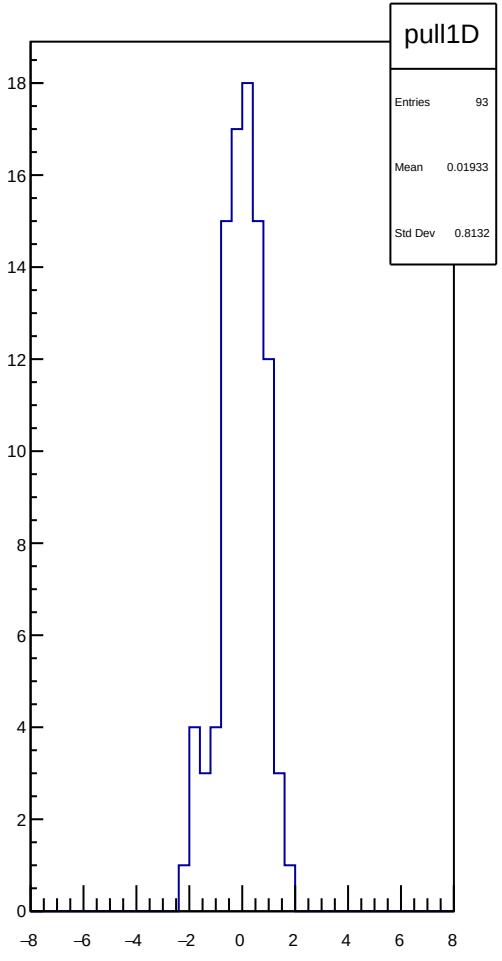

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 52.21 / 92
p0 26.49 ± 1.75
pull
Entries 93
Mean −467.3
Std Dev 0

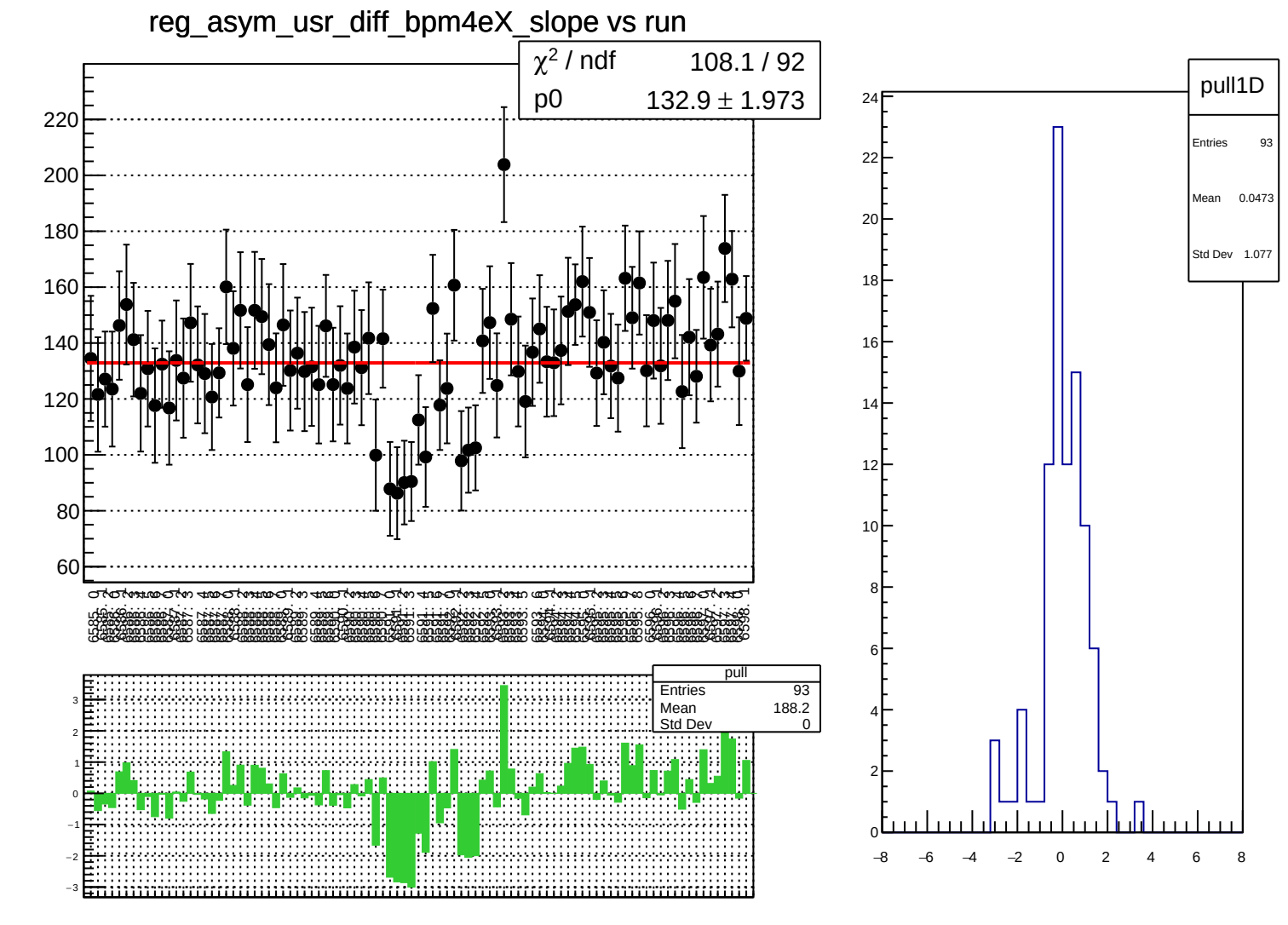

pull1D
Entries 93
Mean 0.01164
Std Dev 0.7492

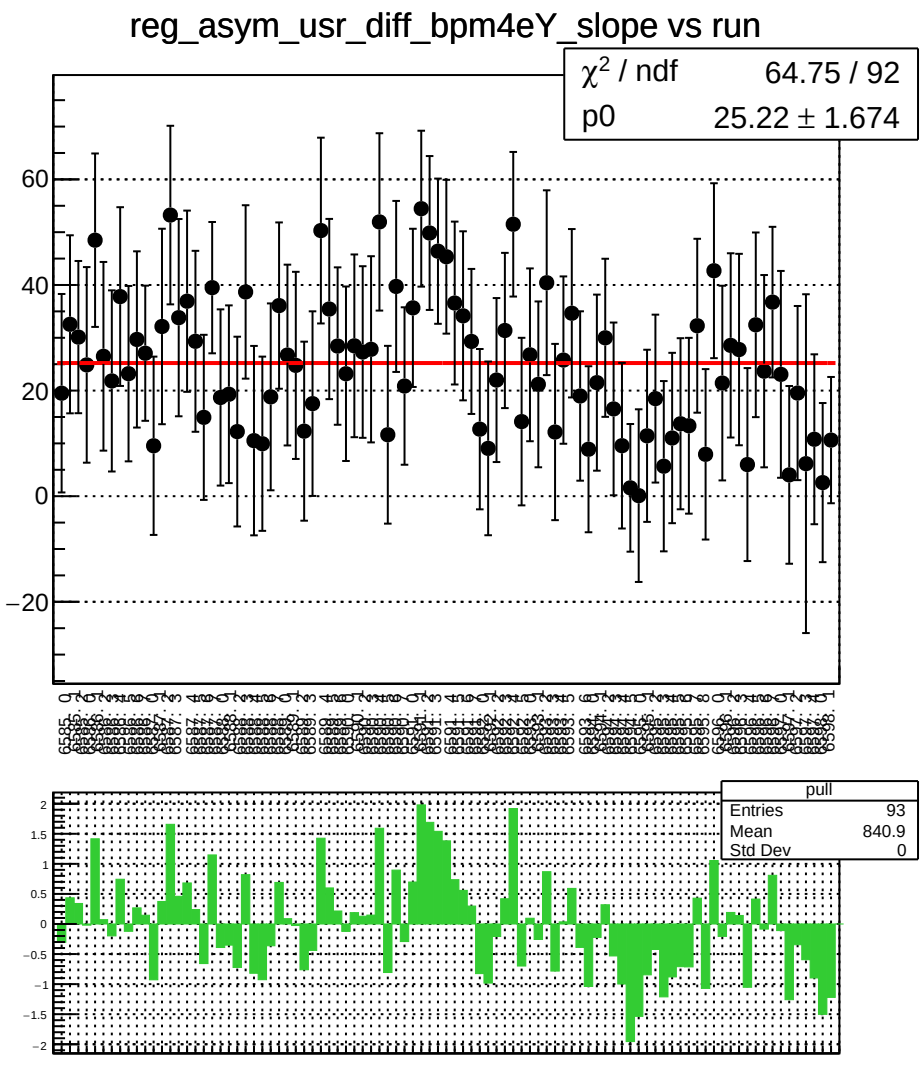

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 307.6 / 92
p0 −54.74 ± 0.08452
pull
Entries 93
Mean 62.49
Std Dev 73.09
pull1D
Entries 93
Mean 0.0809
Std Dev 1.543

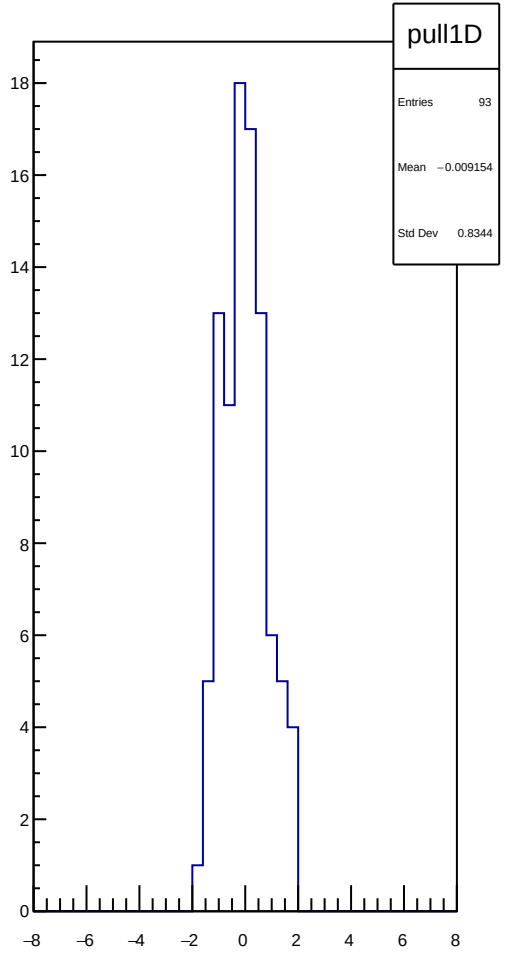

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 106.2 / 92
p0 −66.91 ± 1.923
pull
Entries 93
Mean 200.7
Std Dev 0
pull1D
Entries 93
Mean −0.04362
Std Dev 1.068

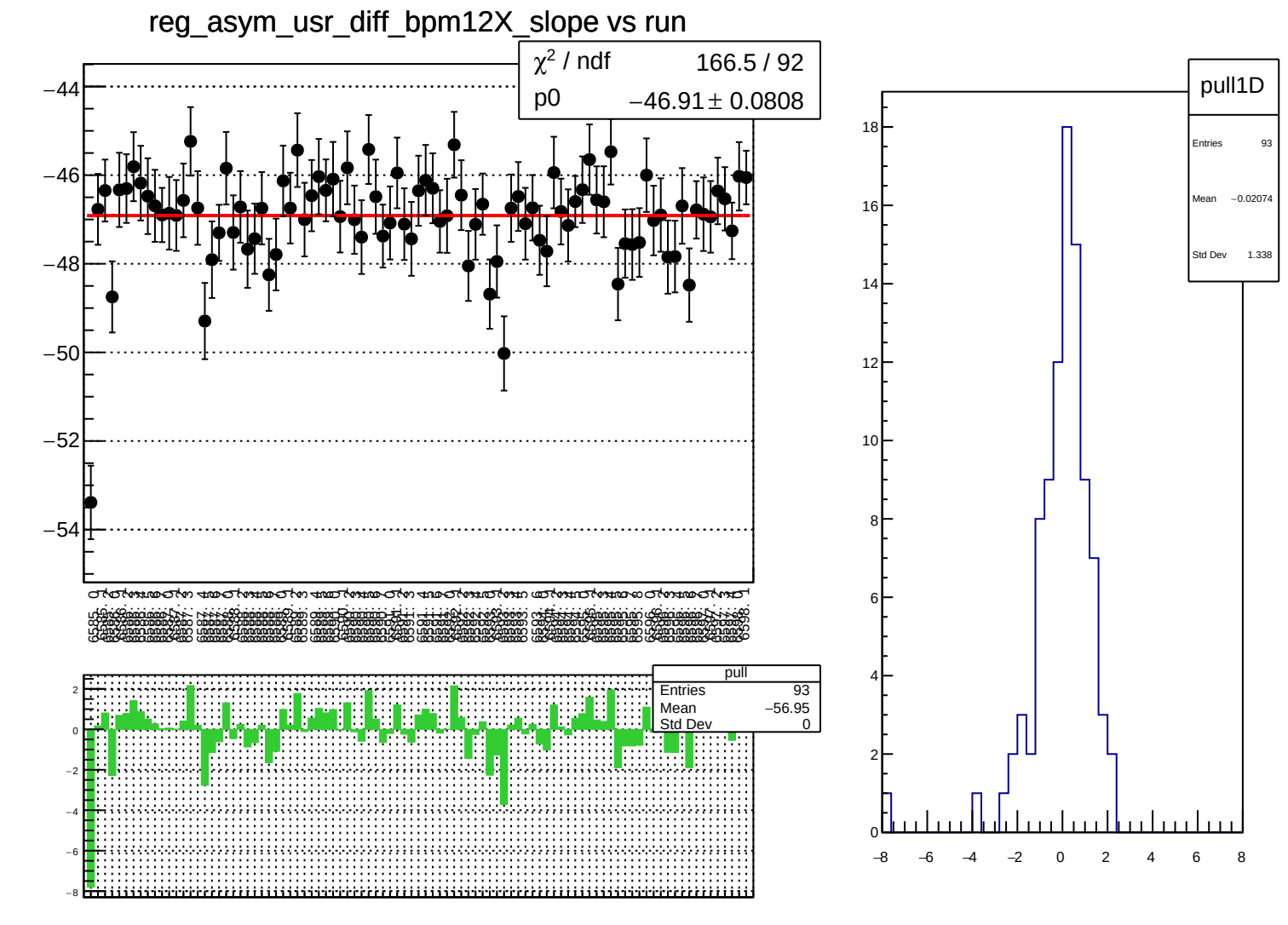

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 61.54 / 92
p0 1.382 ± 1.408
pull
Entries 93
Mean 375.8
Std Dev 0

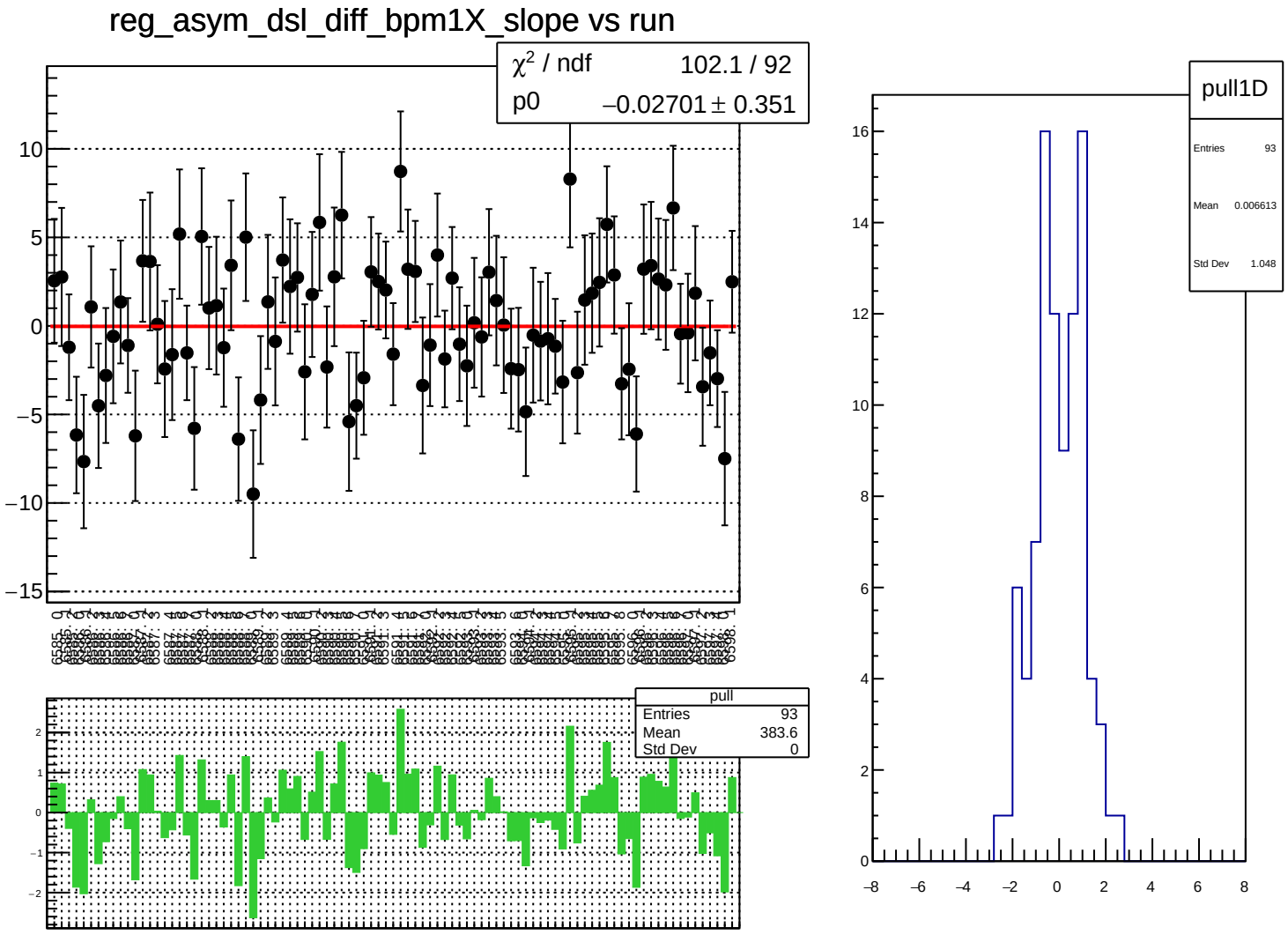

pull1D
Entries 93
Mean 0.01933
Std Dev 0.8132

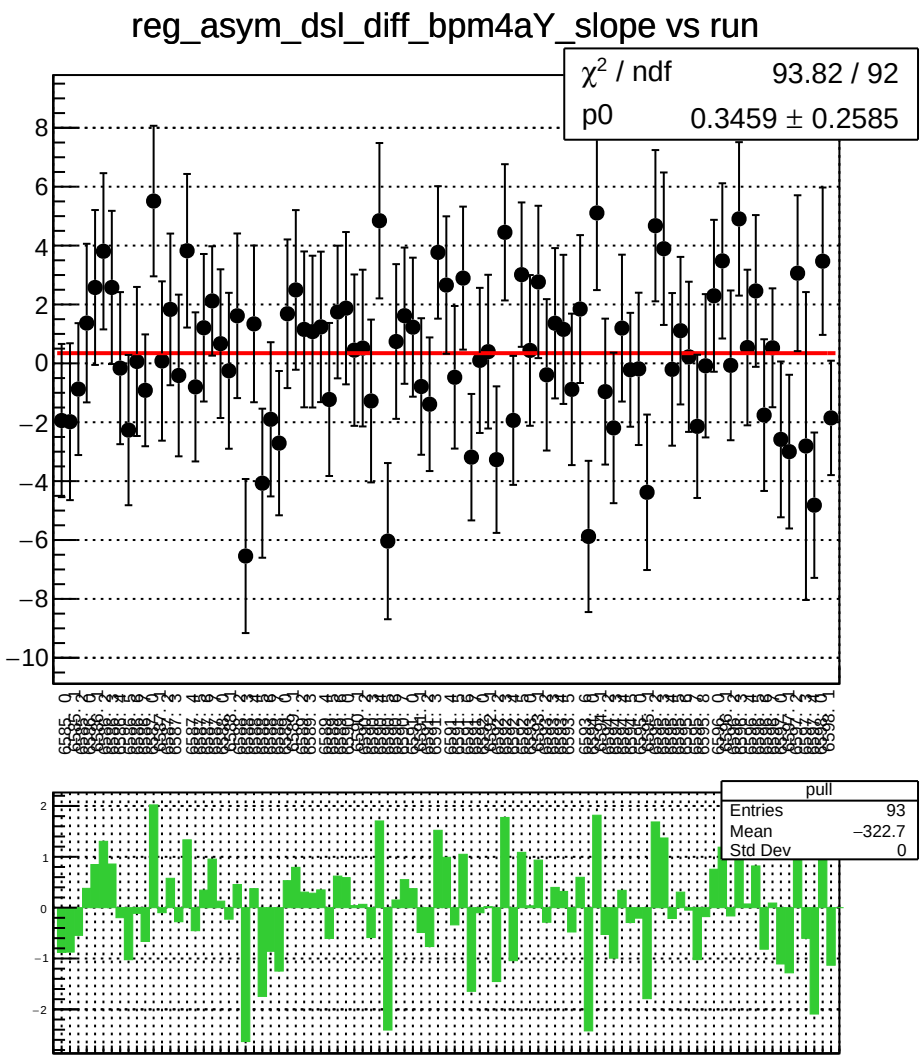

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 108.1 / 92
p0 132.9 ± 1.973
pull
Entries 93
Mean 188.2
Std Dev 0
pull1D
Entries 93
Mean 0.0473
Std Dev 1.077

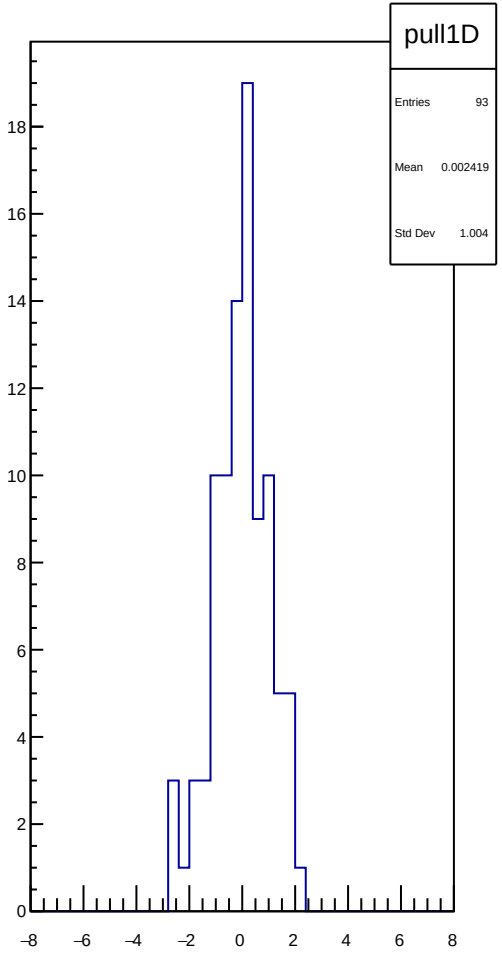

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 64.75 / 92
p0 25.22 ± 1.674
60
40
20
0
−20
pull
Entries 93
Mean 840.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

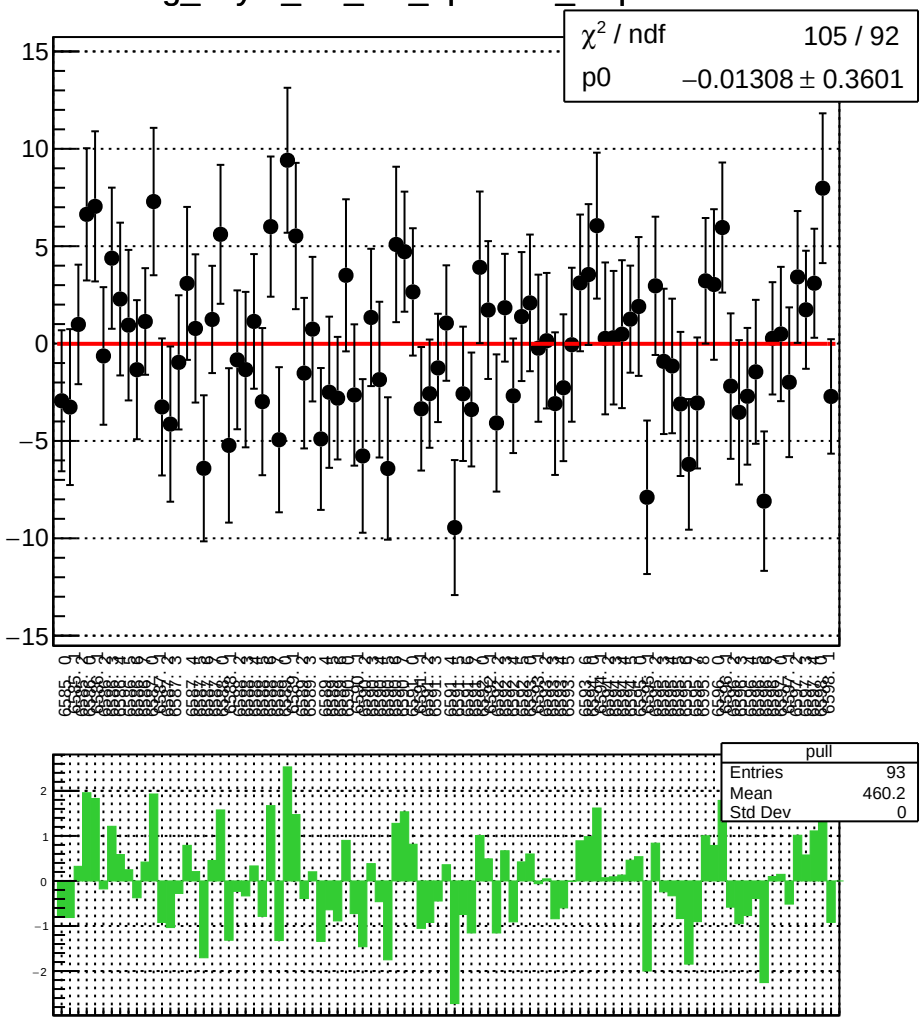

pull1D
Entries 93
Mean −0.009154
Std Dev 0.8344
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

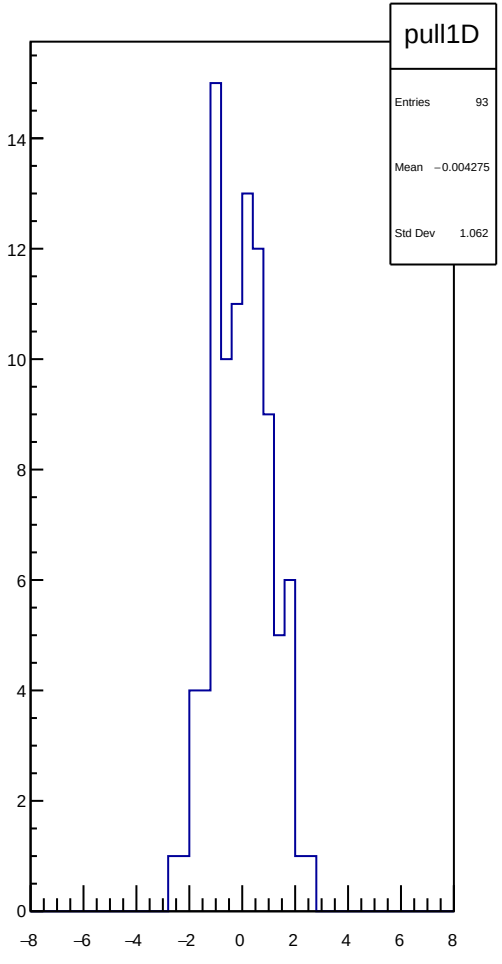

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 166.5 / 92
p0 −46.91 ± 0.0808
pull
Entries 93
Mean −56.95
Std Dev 0
pull1D
Entries 93
Mean −0.02074
Std Dev 1.338

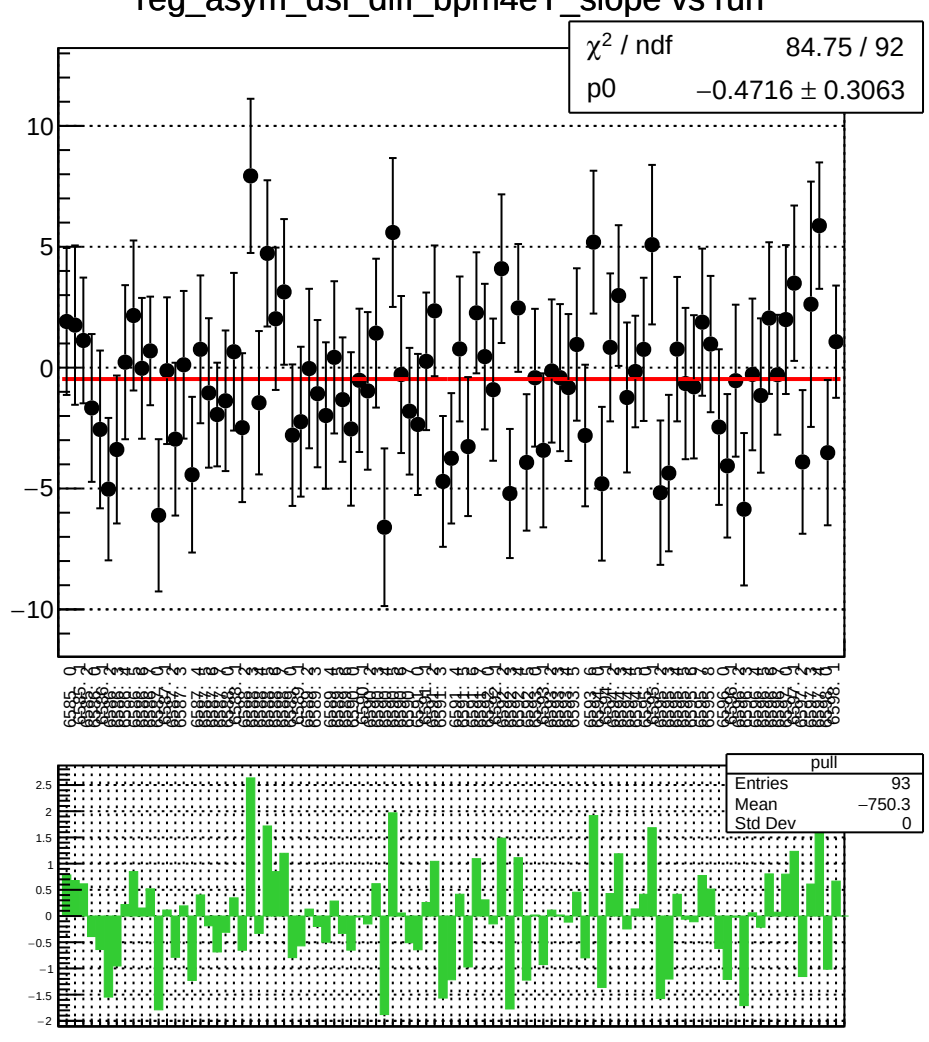

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 102.1 / 92
p0 −0.02701 ± 0.351
pull
Entries 93
Mean 383.6
Std Dev 0
pull1D
Entries 93
Mean 0.006613
Std Dev 1.048

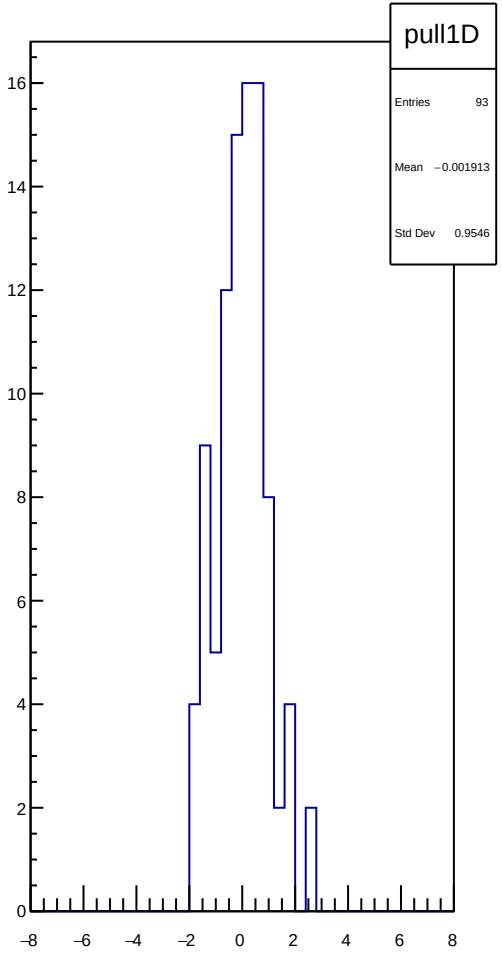

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 93.82 / 92
p0 0.3459 ± 0.2585
pull
Entries 93
Mean −322.7
Std Dev 0

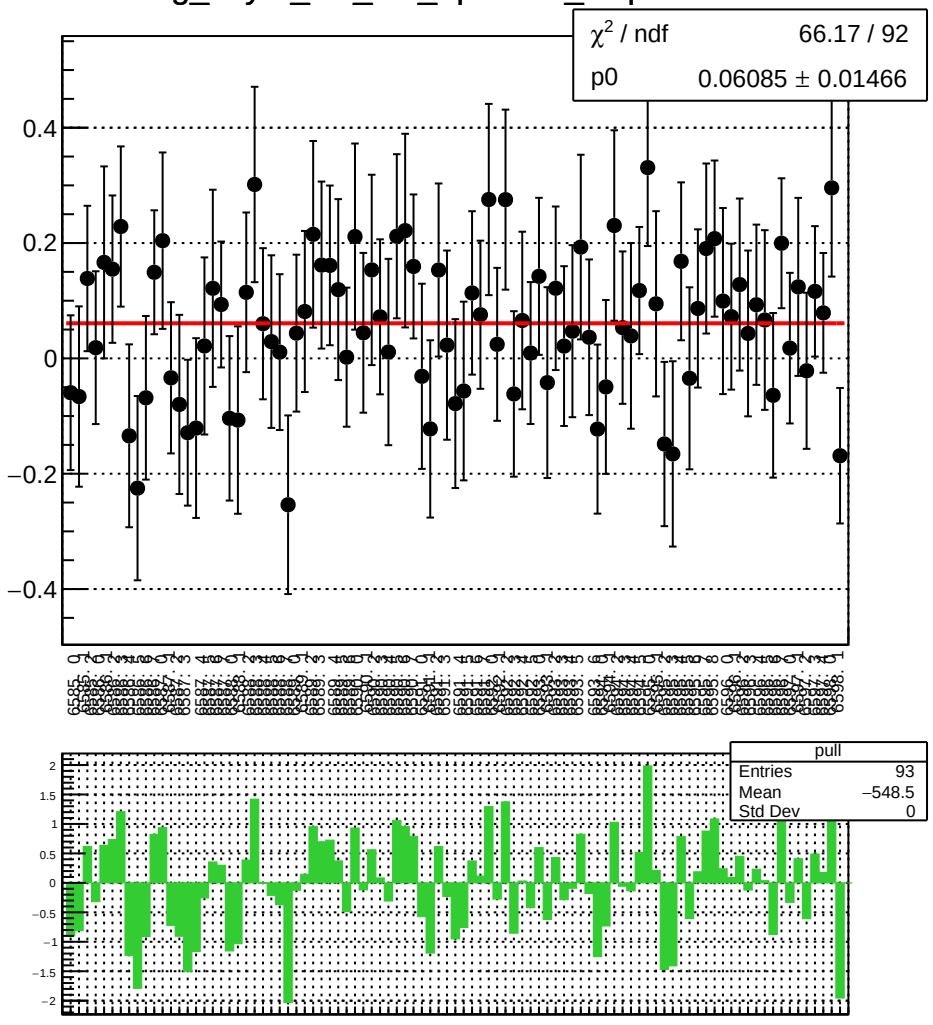

pull1D
Entries 93
Mean 0.002419
Std Dev 1.004

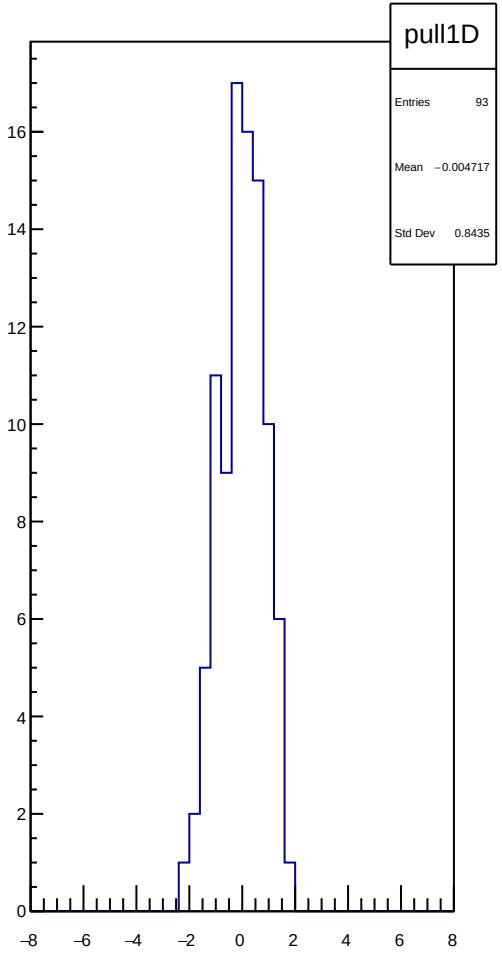

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 105 / 92
p0 −0.01308 ± 0.3601
pull
Entries 93
Mean 460.2
Std Dev 0

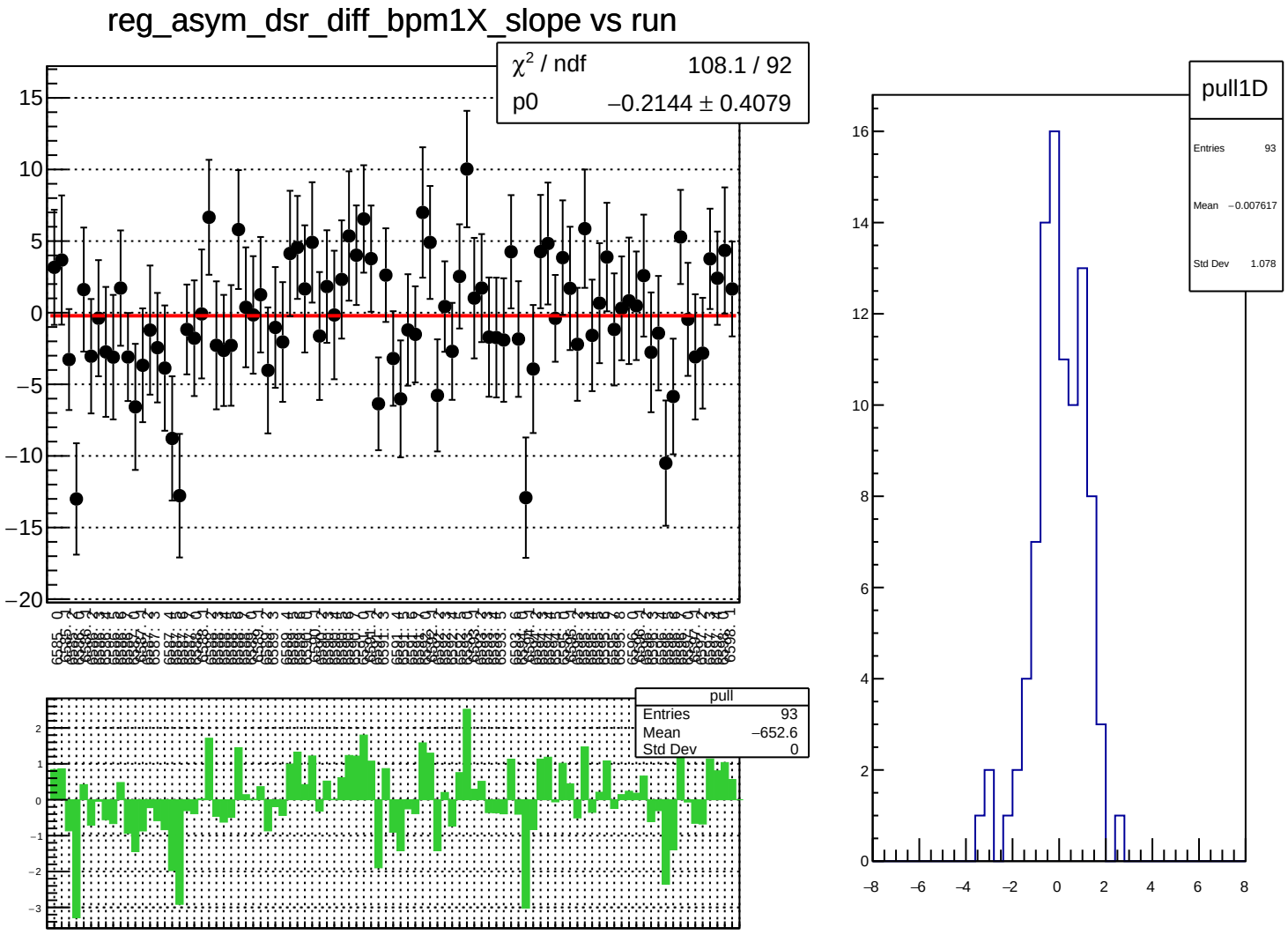

pull1D
Entries 93
Mean −0.004275
Std Dev 1.062

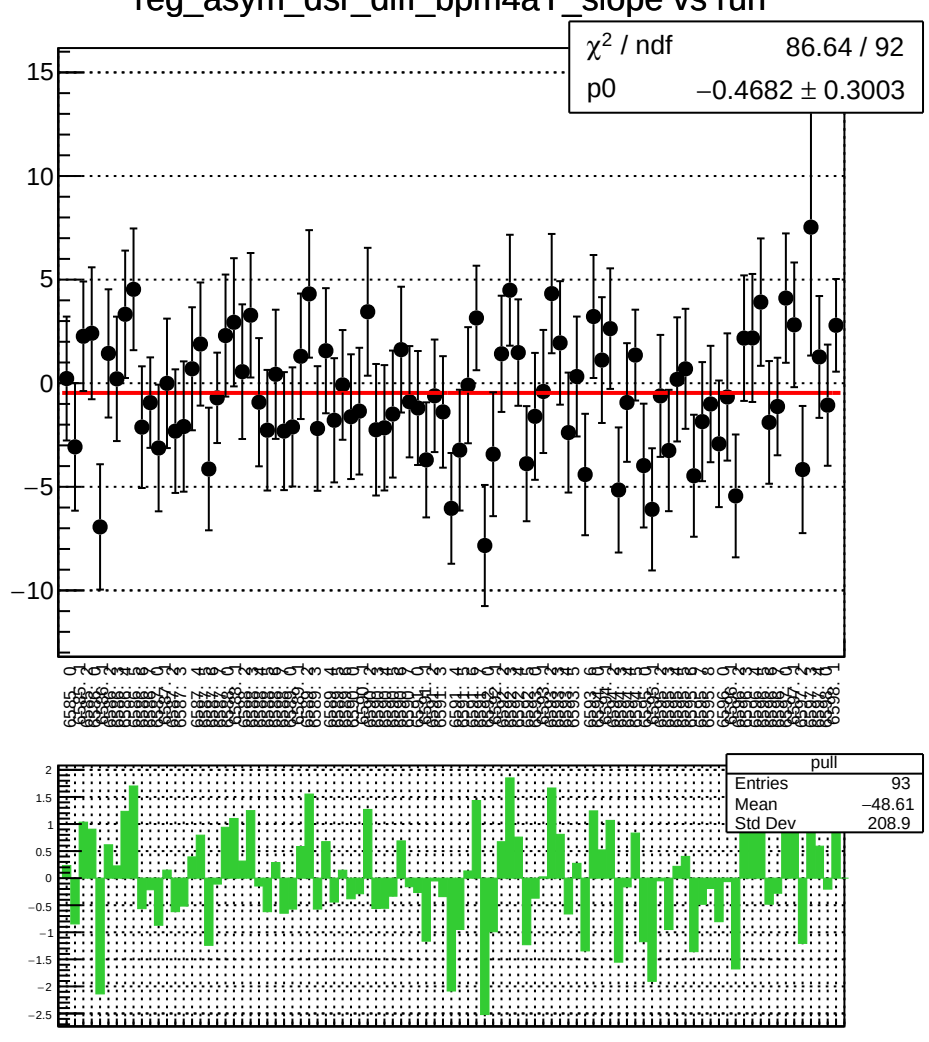

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 84.75 / 92
p0 −0.4716 ± 0.3063
pull
Entries 93
Mean −750.3
Std Dev 0

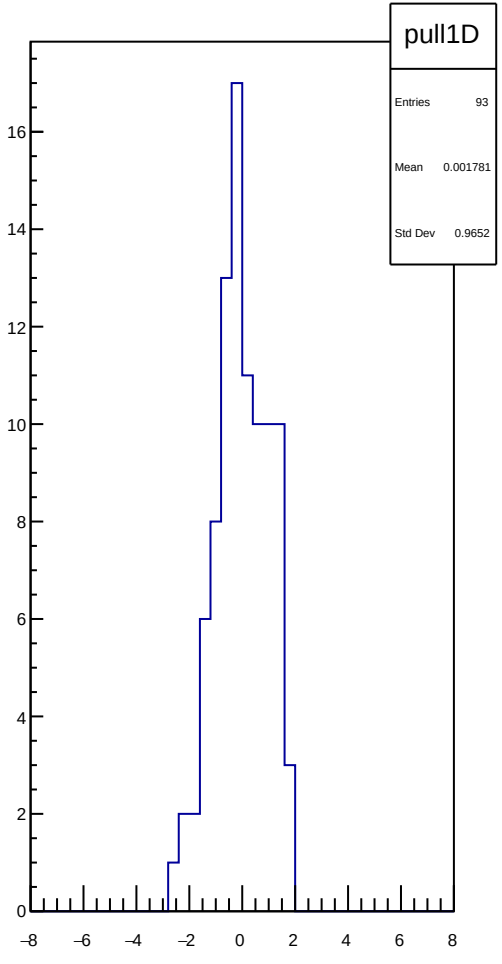

pull1D
Entries 93
Mean −0.001913
Std Dev 0.9546

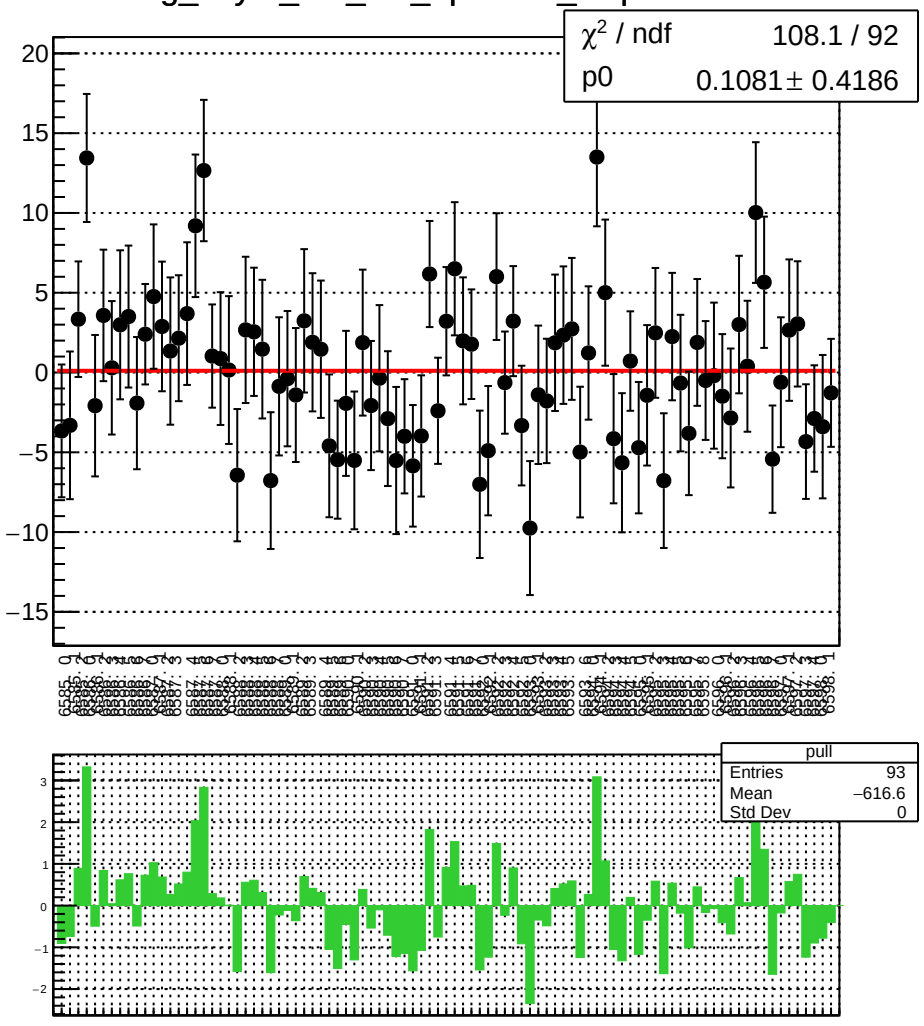

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 66.17 / 92
p0 0.06085 ± 0.01466
pull
Entries 93
Mean −548.5
Std Dev 0

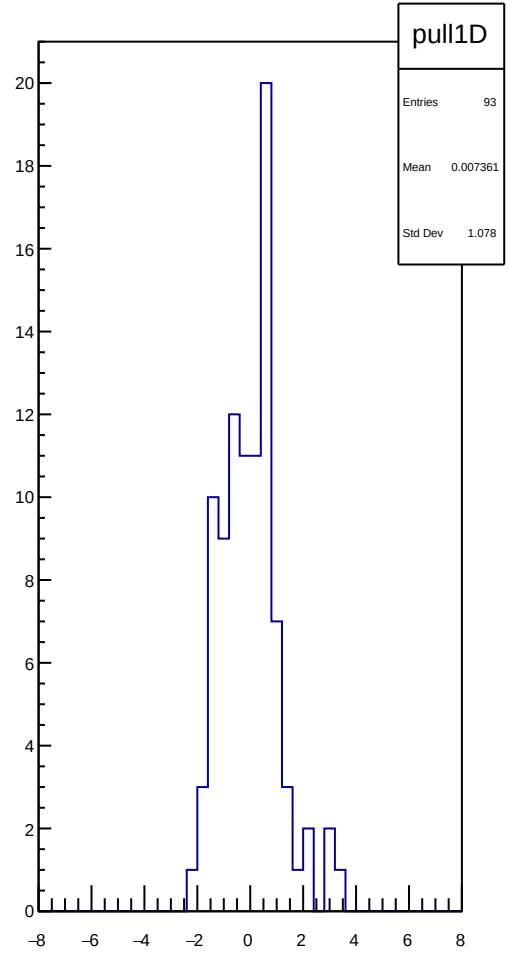

pull1D
Entries 93
Mean −0.004717
Std Dev 0.8435

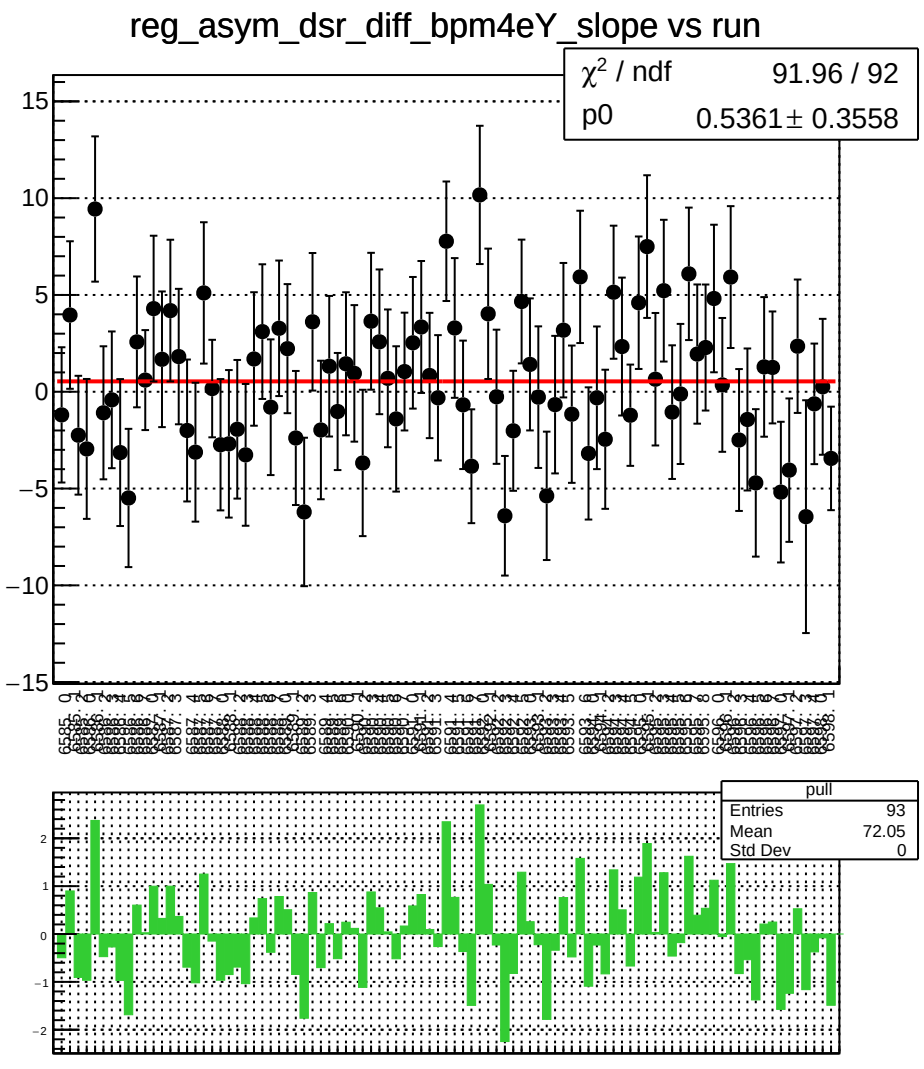

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 108.1 / 92
p0 −0.2144 ± 0.4079
pull
Entries 93
Mean −652.6
Std Dev 0
pull1D
Entries 93
Mean −0.007617
Std Dev 1.078

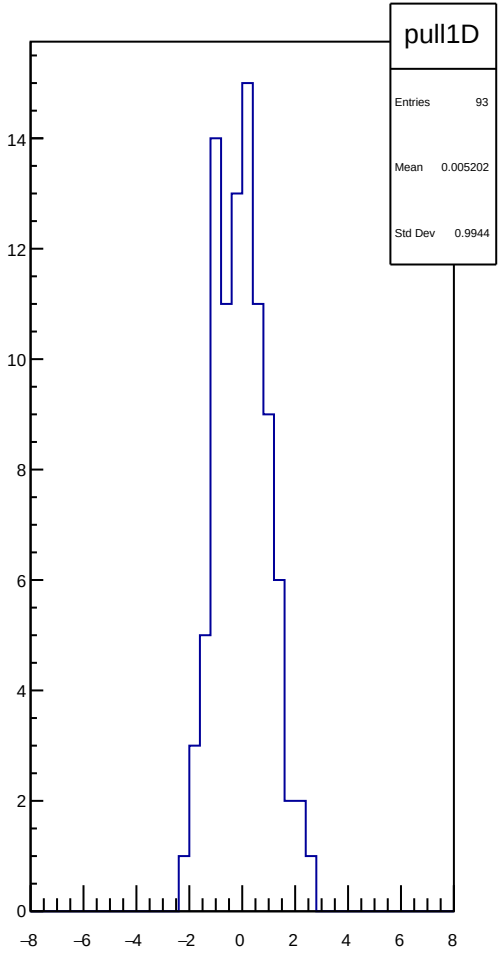

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 86.64 / 92
p0 −0.4682 ± 0.3003
pull
Entries 93
Mean −48.61
Std Dev 208.9

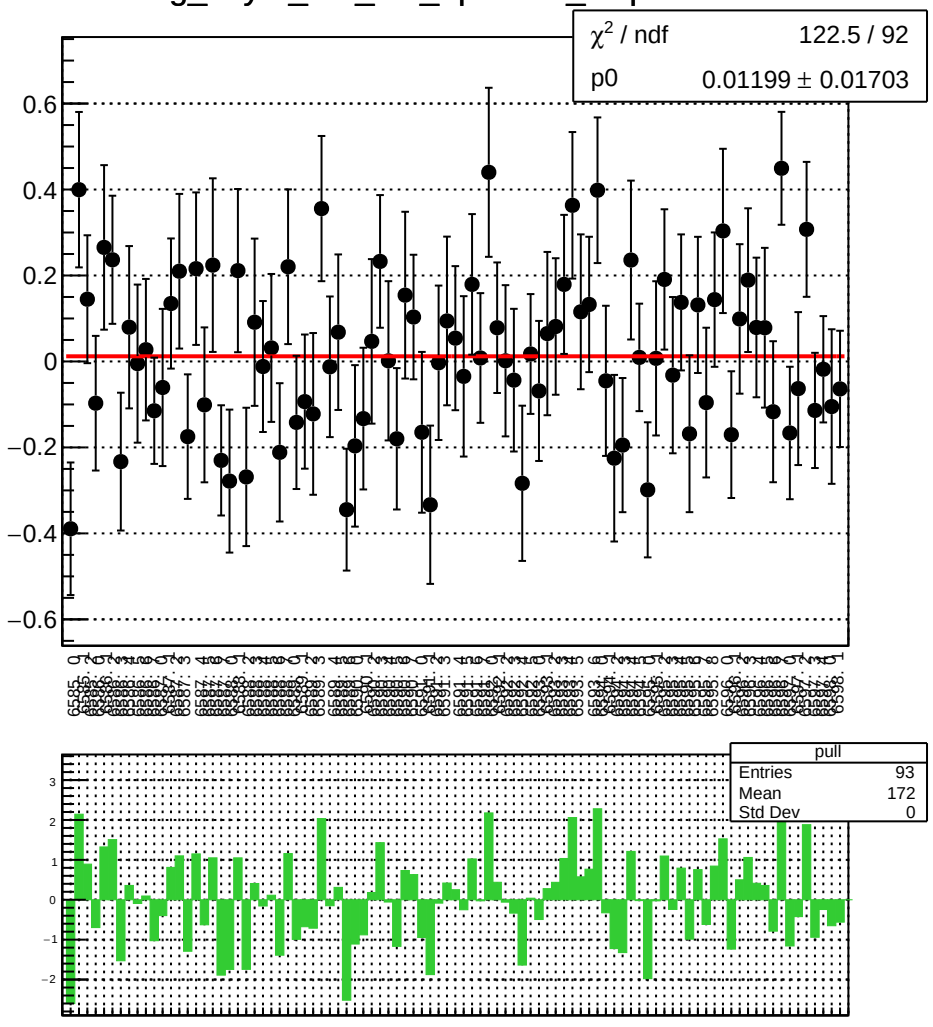

pull1D
Entries 93
Mean 0.001781
Std Dev 0.9652

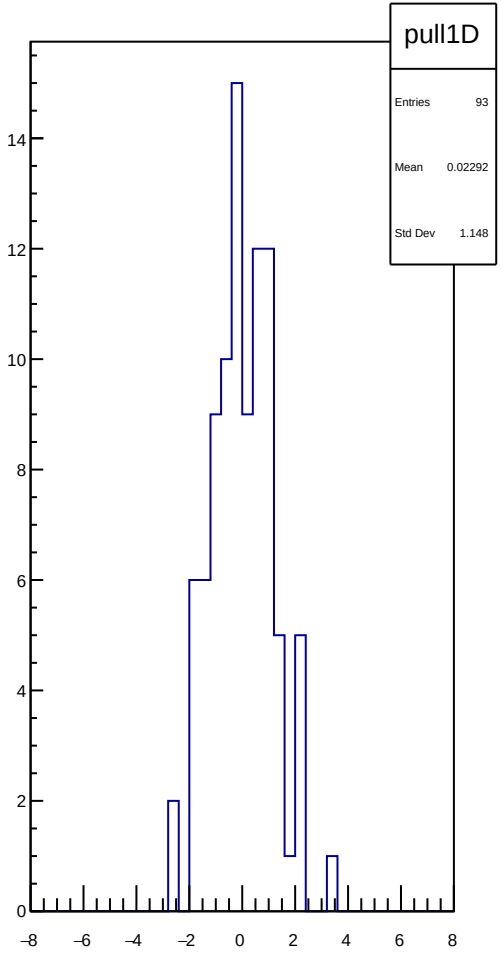

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 108.1 / 92
p0 0.1081 ± 0.4186
pull
Entries 93
Mean −616.6
Std Dev 0

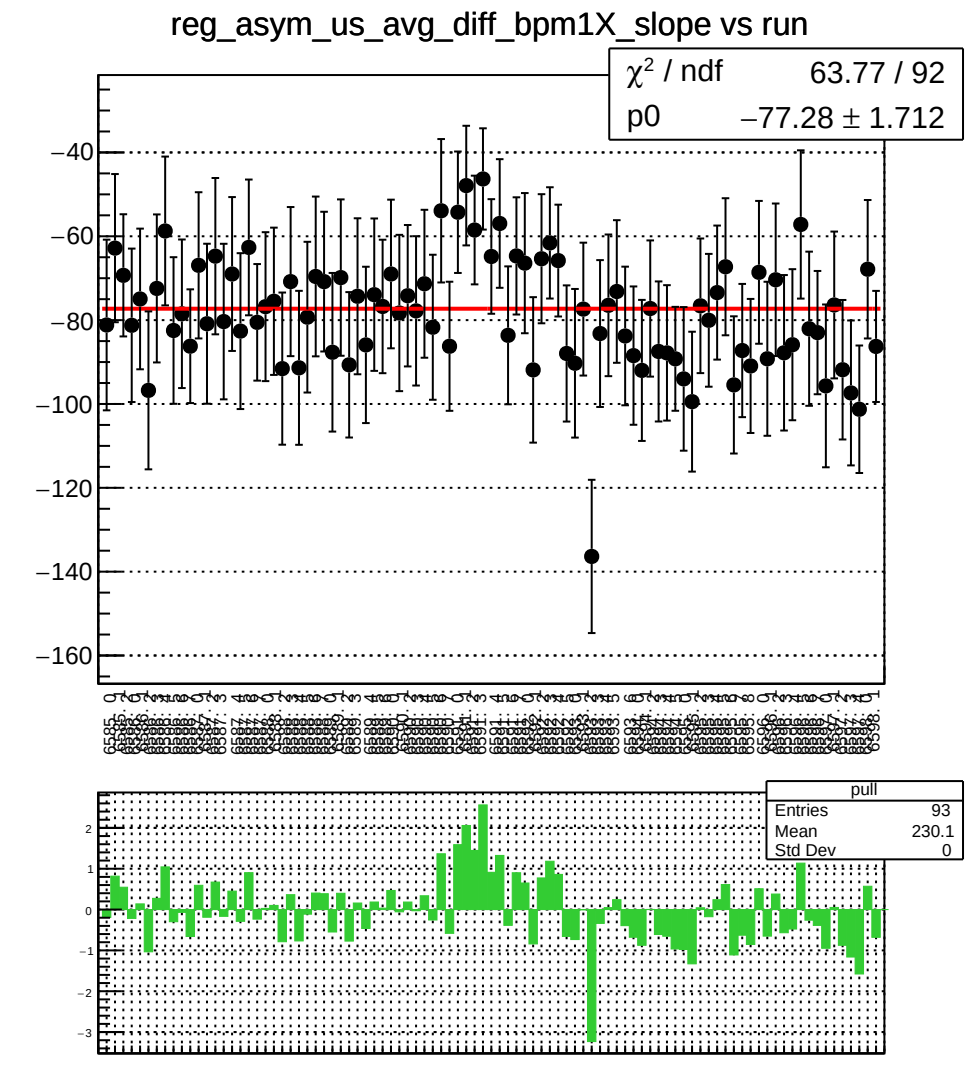

pull1D
Entries 93
Mean 0.007361
Std Dev 1.078

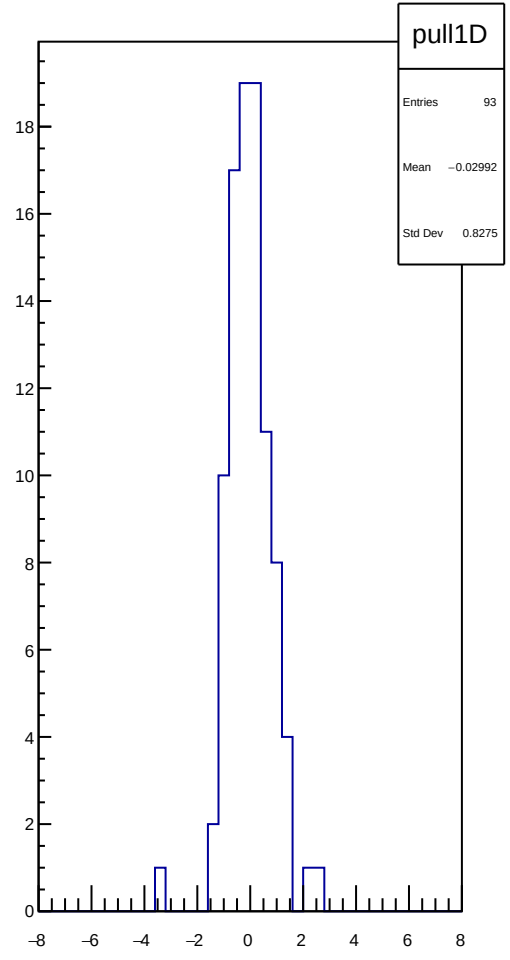

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 91.96 / 92
p0 0.5361 ± 0.3558
pull
Entries 93
Mean 72.05
Std Dev 0

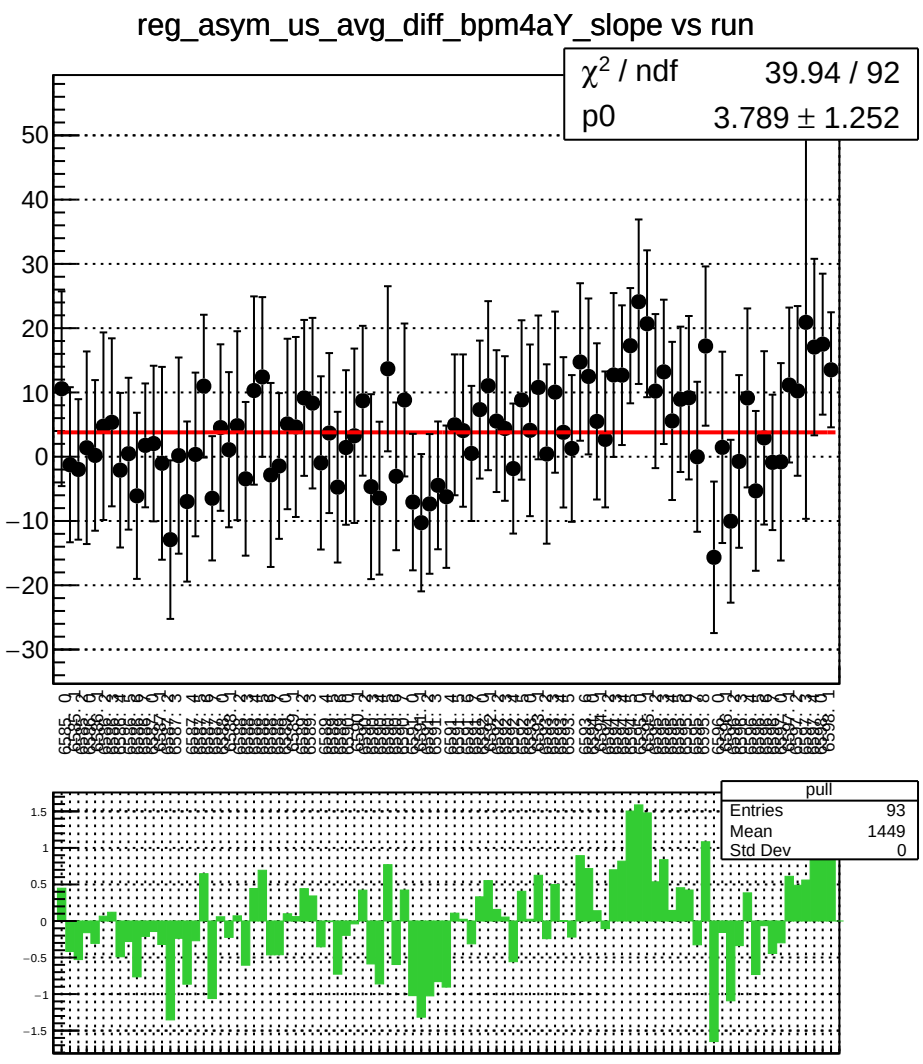

pull1D
Entries 93
Mean 0.005202
Std Dev 0.9944

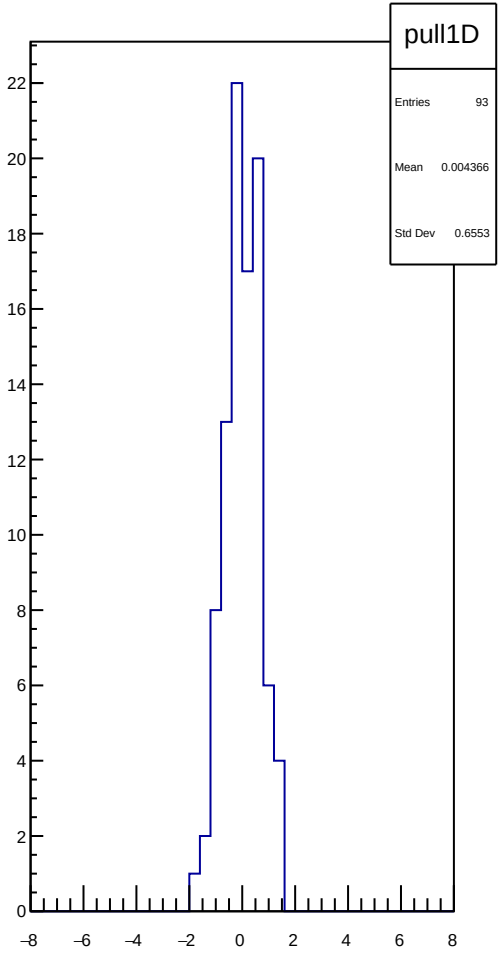

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 122.5 / 92
p0 0.01199 ± 0.01703
pull
Entries 93
Mean 172
Std Dev 0

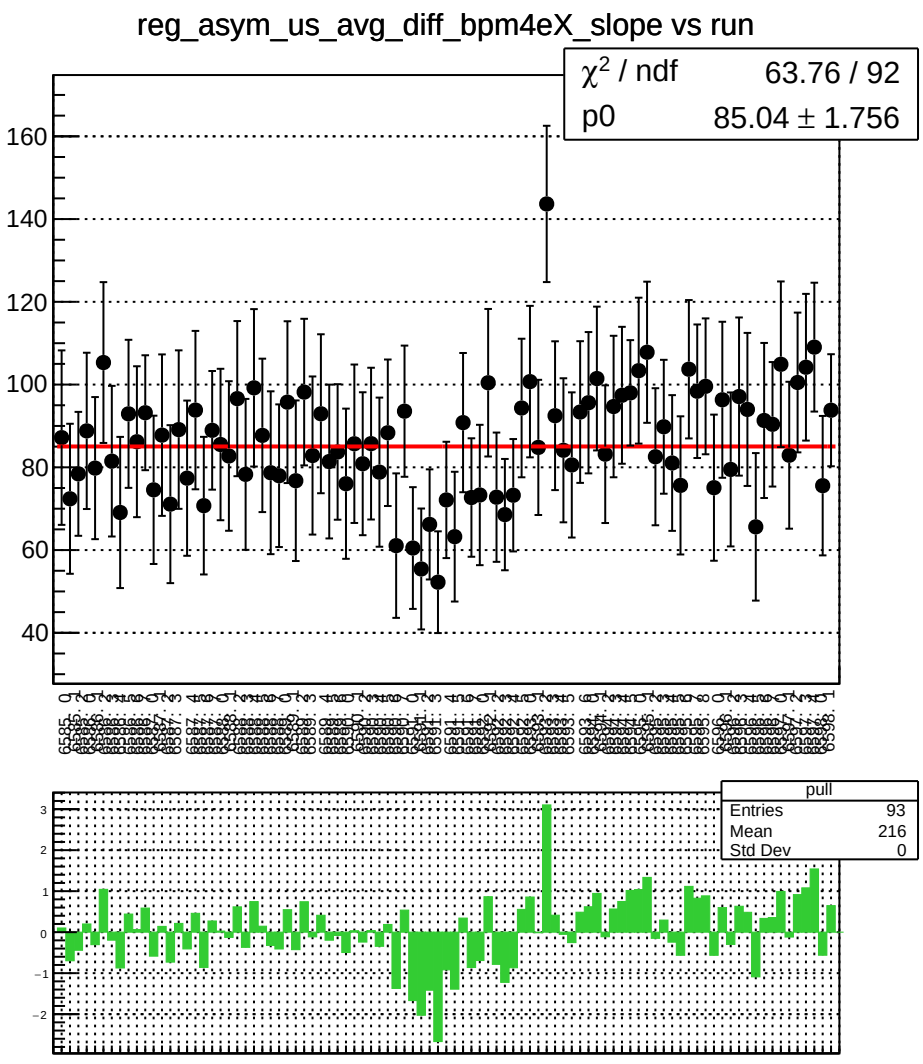

pull1D
Entries 93
Mean 0.02292
Std Dev 1.148

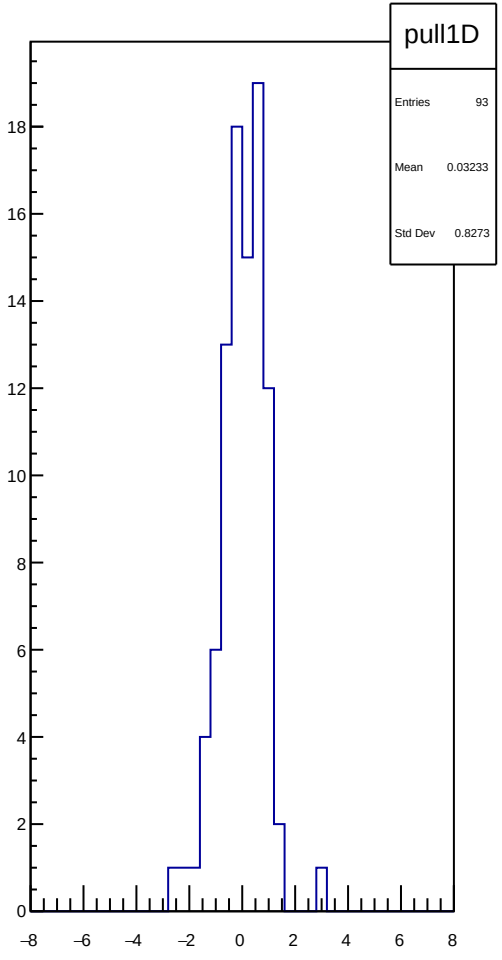

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 63.77 / 92
p0 −77.28 ± 1.712
pull
Entries 93
Mean 230.1
Std Dev 0

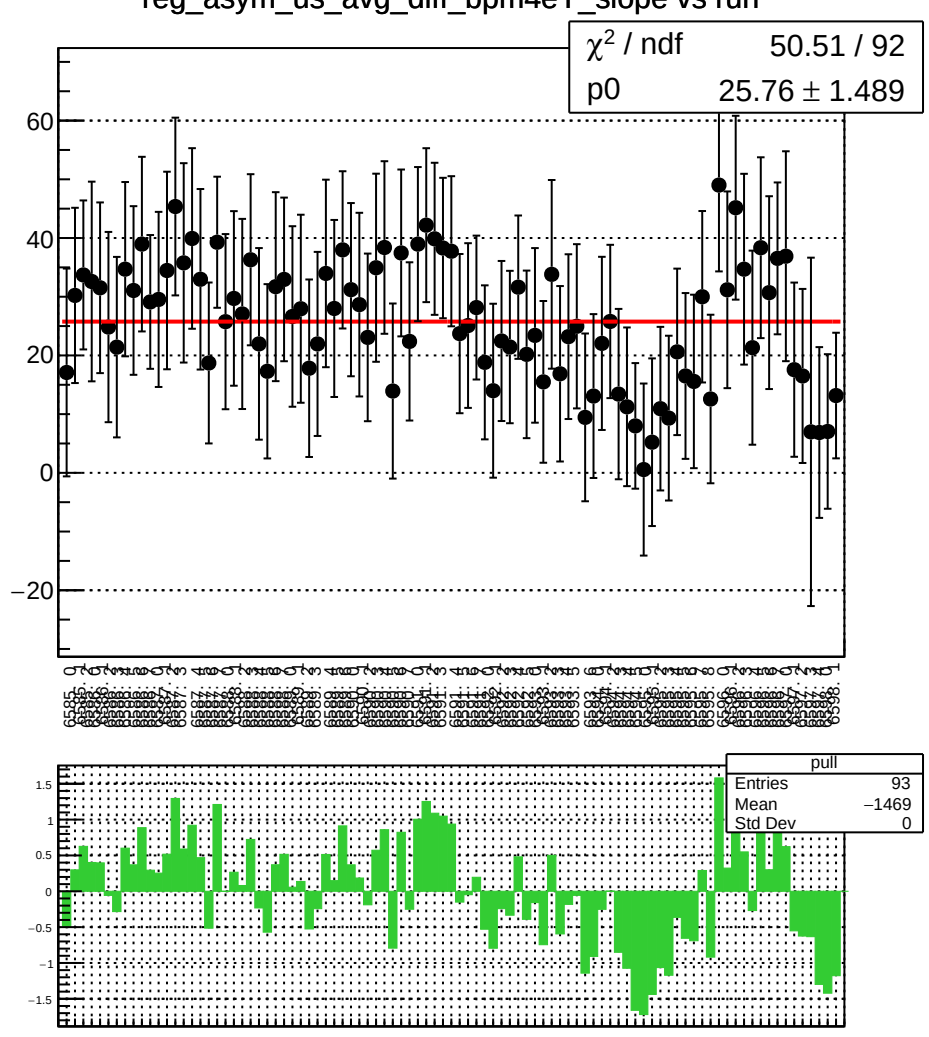

pull1D
Entries 93
Mean −0.02992
Std Dev 0.8275

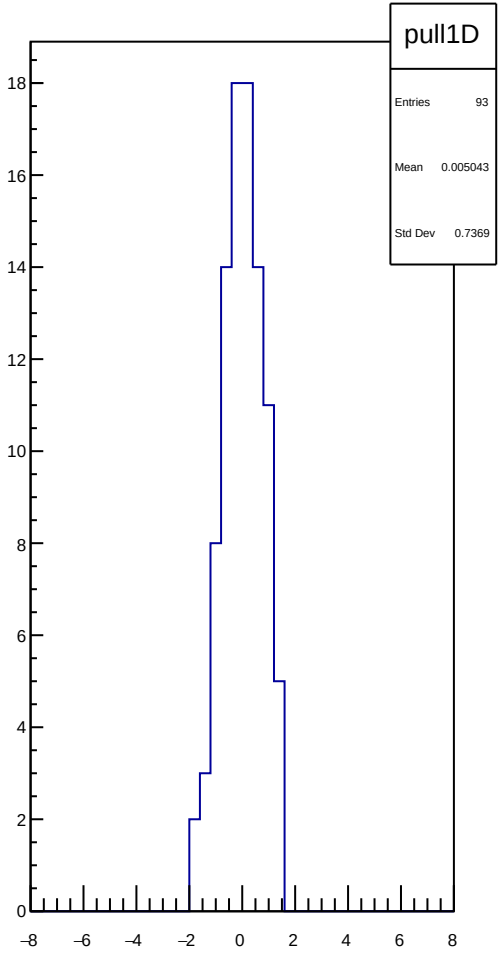

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.94 / 92
p0 3.789 ± 1.252
pull
Entries 93
Mean 1449
Std Dev 0

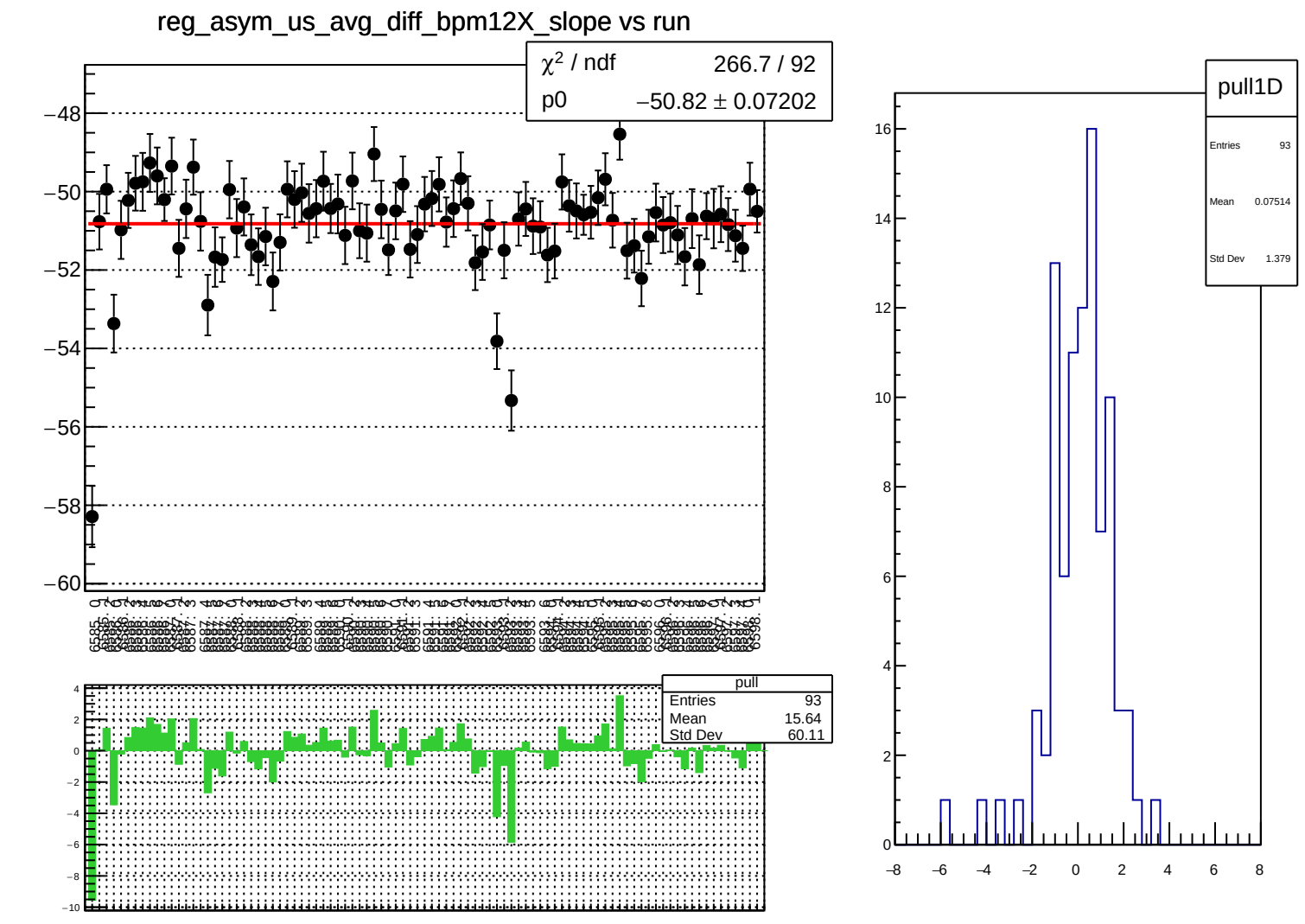

pull1D
Entries 93
Mean 0.004366
Std Dev 0.6553

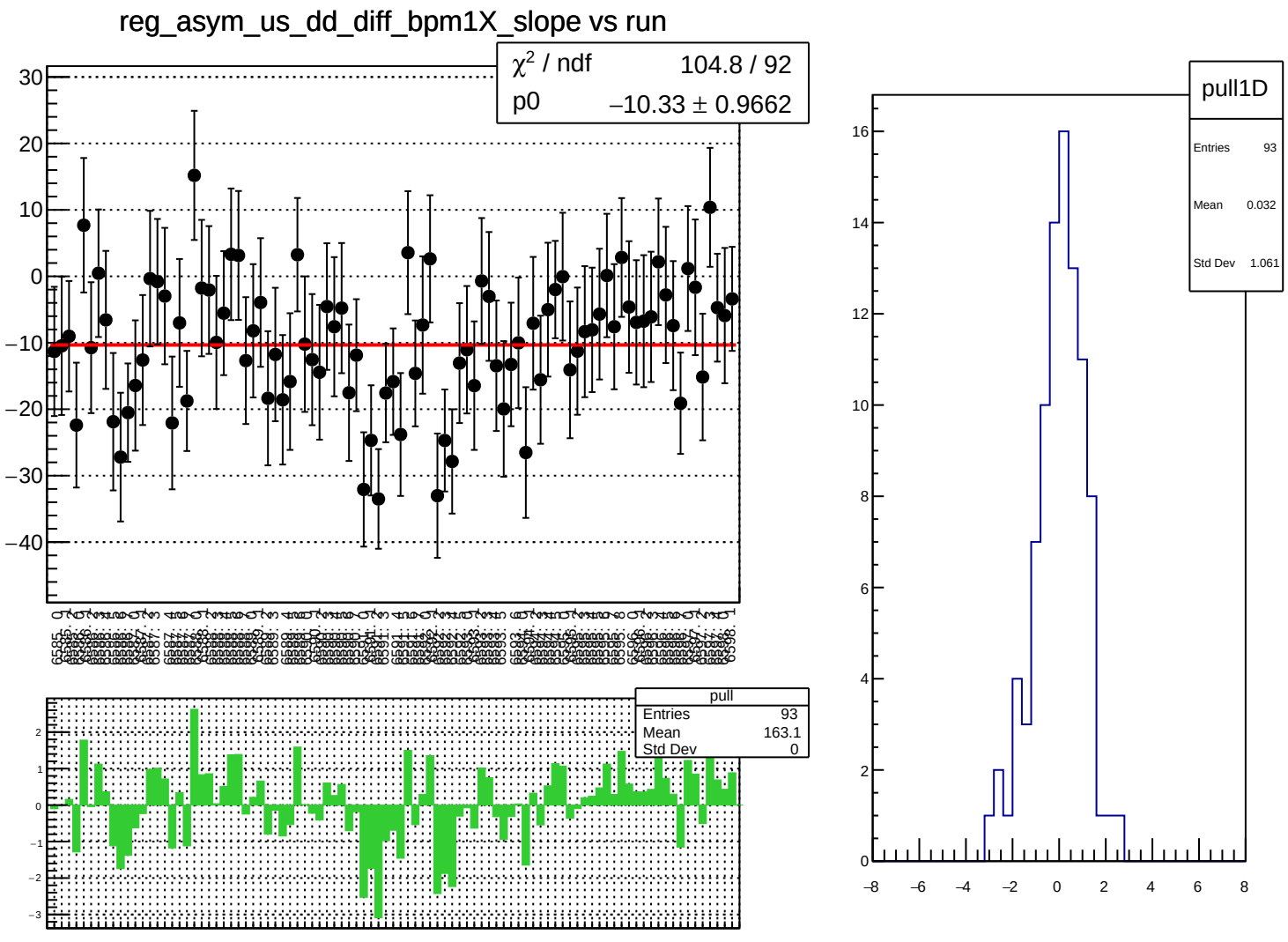

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.76 / 92
p0 85.04 ± 1.756
160
140
120
100
80
60
40
pull
Entries 93
Mean 216
Std Dev 0
3
2
1
0
−1
−2

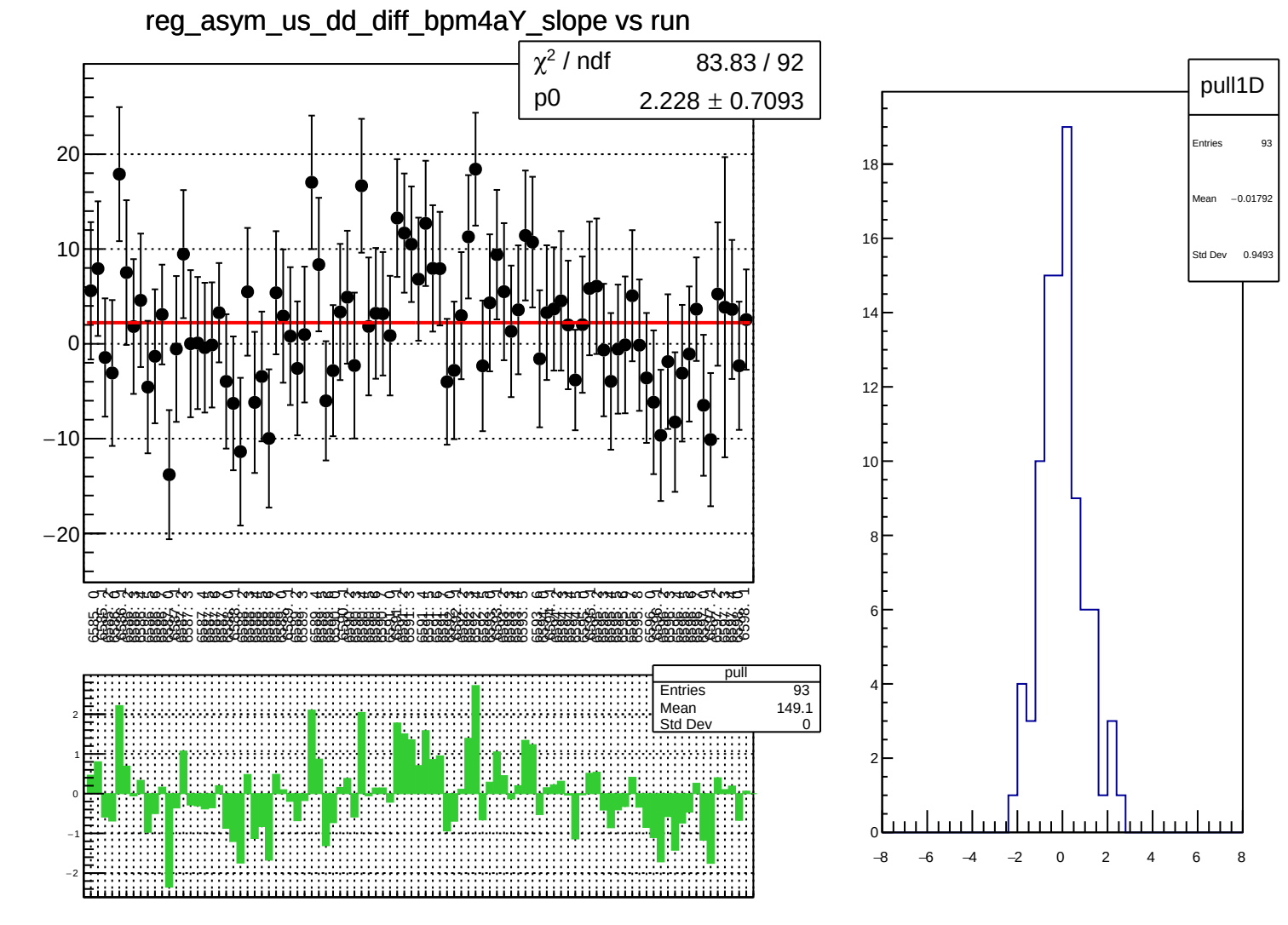

pull1D
Entries 93
Mean 0.03233
Std Dev 0.8273
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

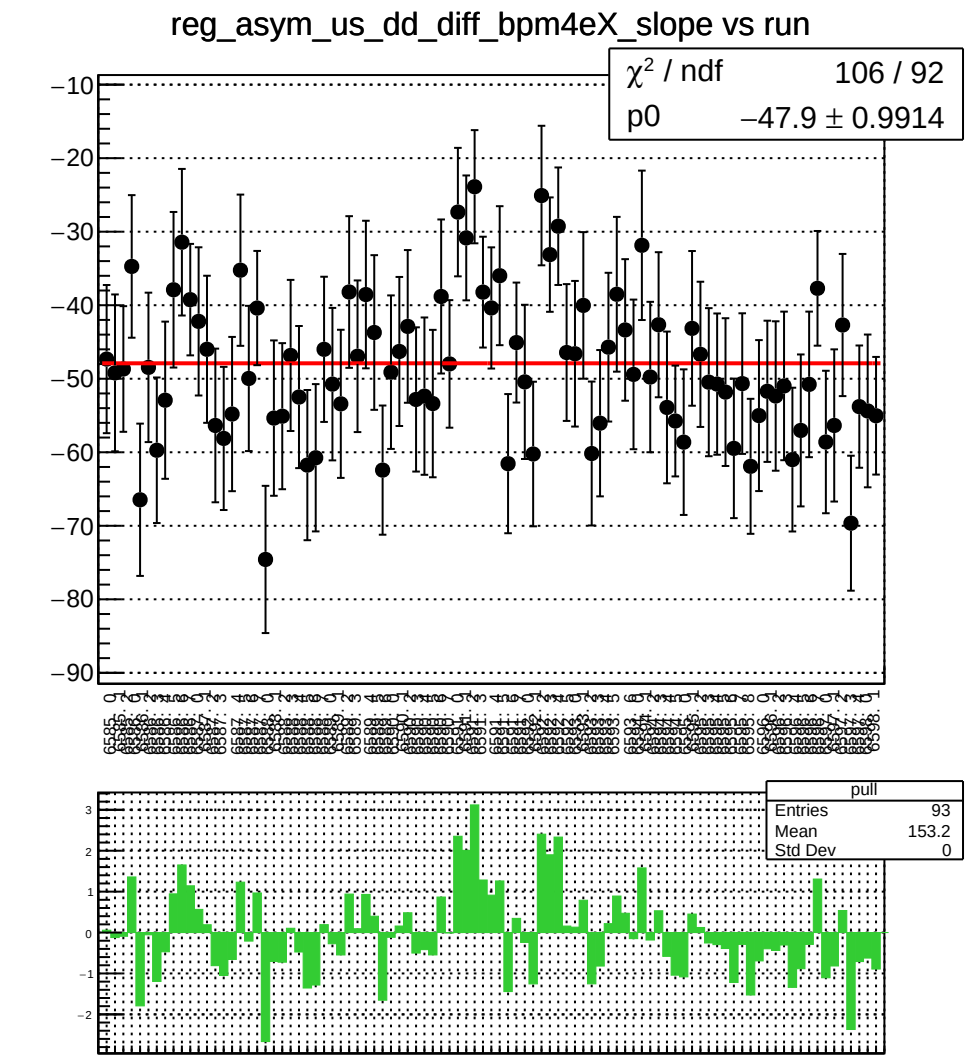

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.51 / 92
p0 25.76 ± 1.489
pull
Entries 93
Mean −1469
Std Dev 0

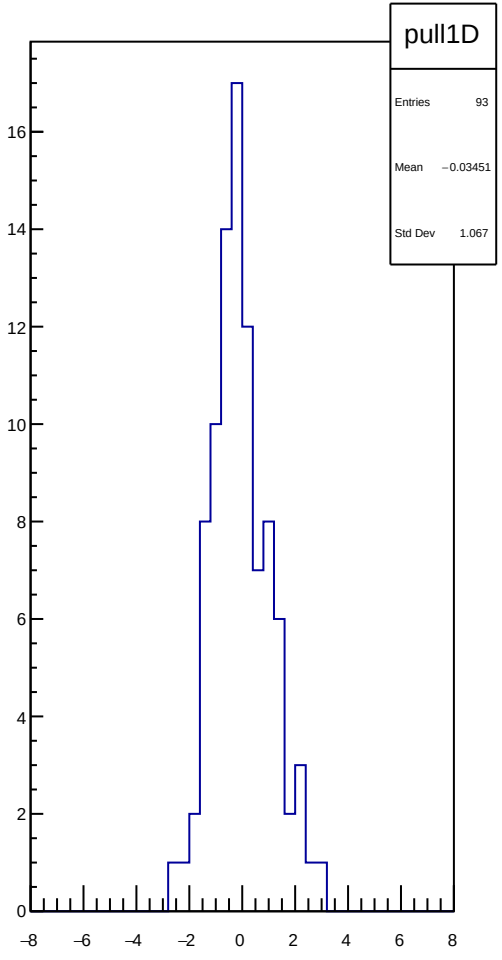

pull1D
Entries 93
Mean 0.005043
Std Dev 0.7369

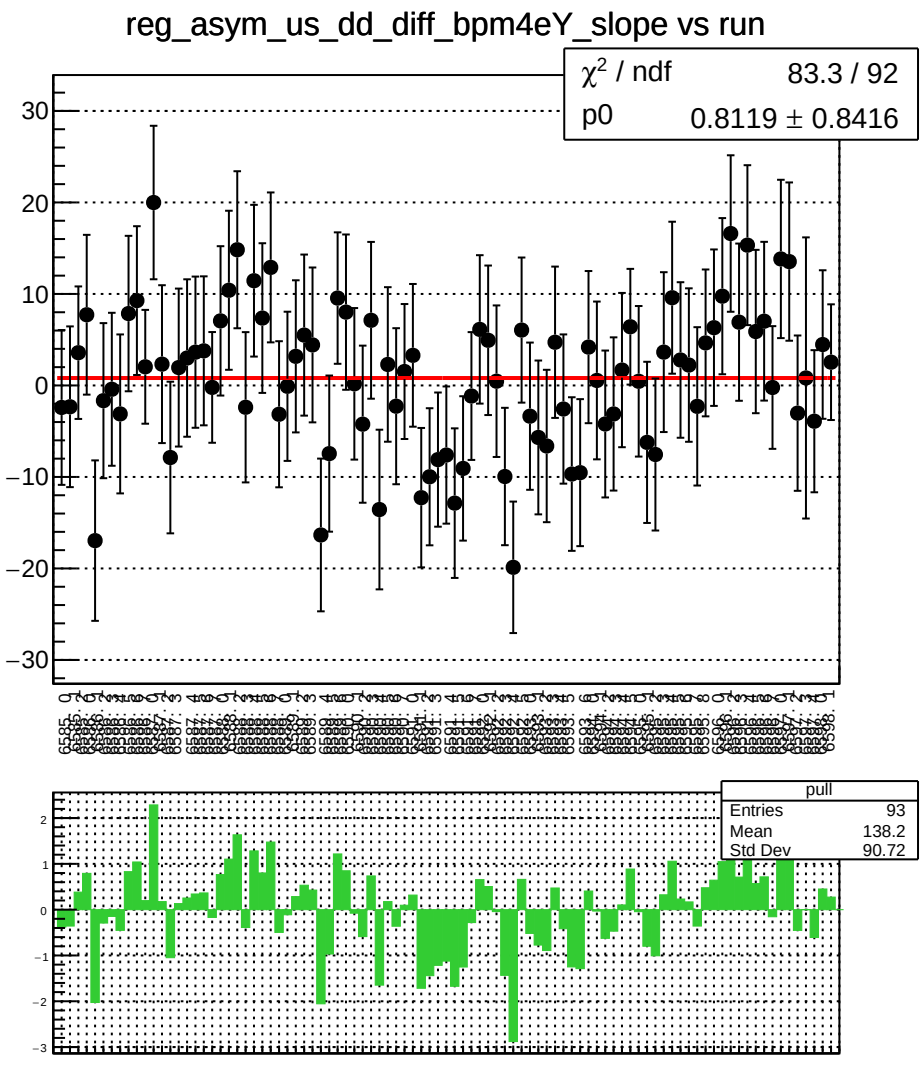

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 266.7 / 92
p0 −50.82 ± 0.07202
pull
Entries 93
Mean 15.64
Std Dev 60.11
pull1D
Entries 93
Mean 0.07514
Std Dev 1.379

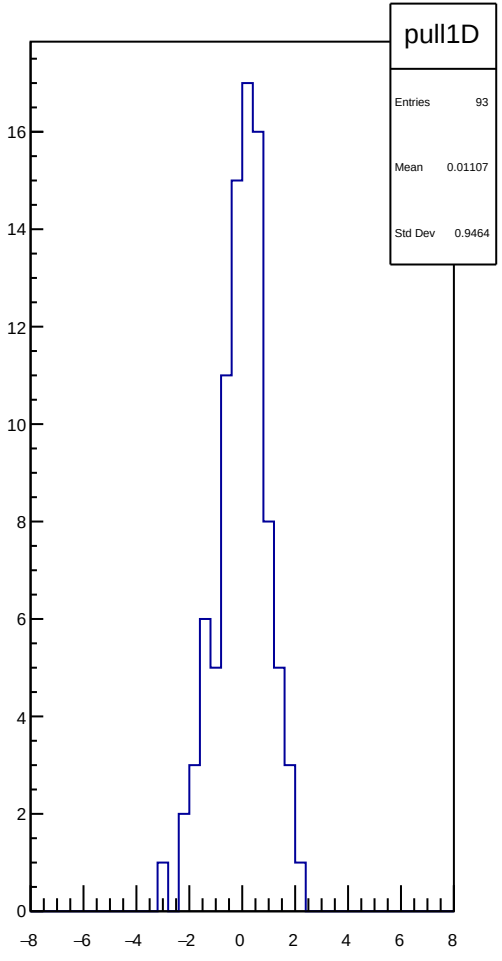

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 104.8 / 92
p0 −10.33 ± 0.9662
pull
Entries 93
Mean 163.1
Std Dev 0
pull1D
Entries 93
Mean 0.032
Std Dev 1.061

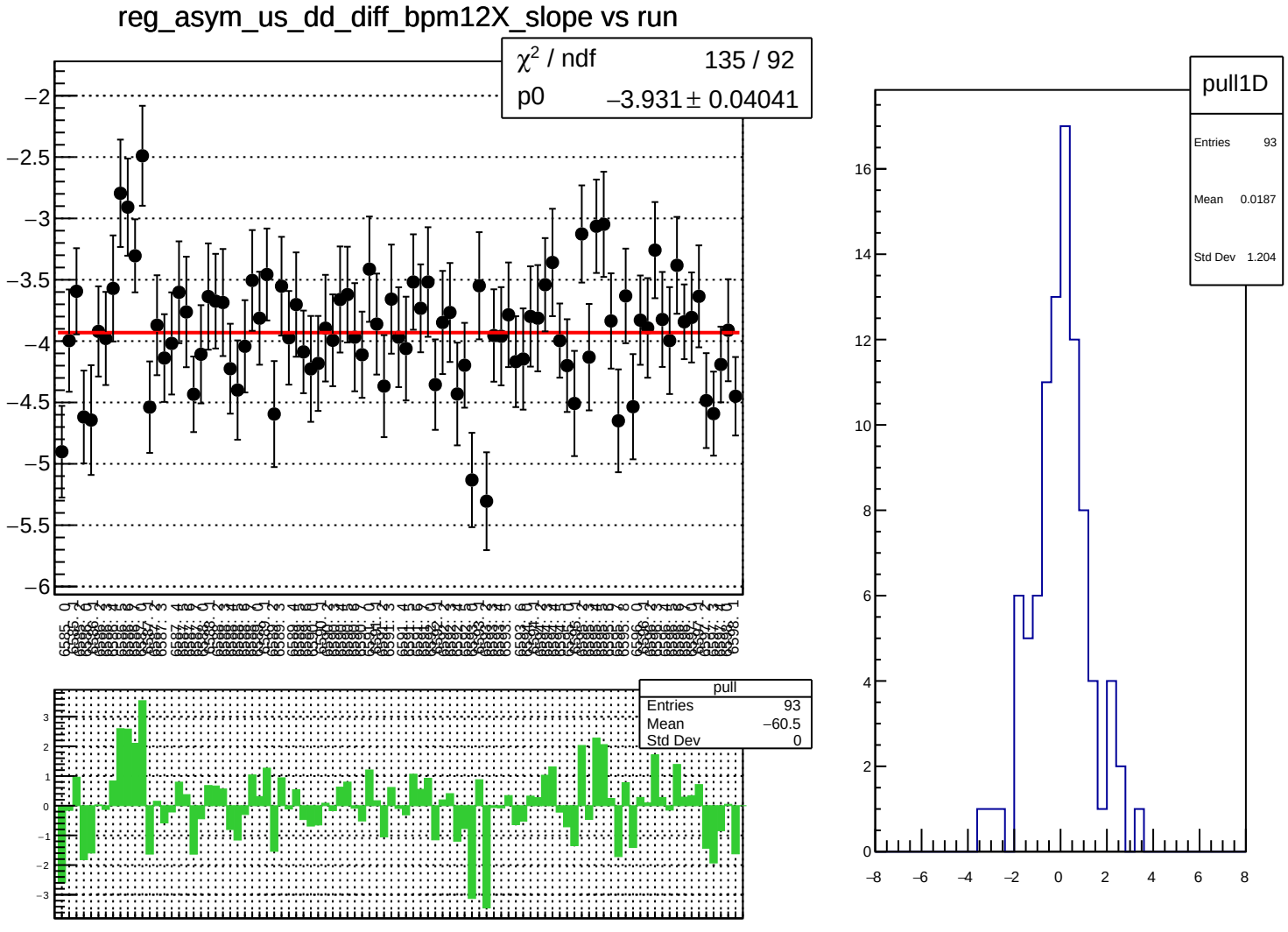

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.83 / 92
p0 2.228 ± 0.7093
pull
Entries 93
Mean 149.1
Std Dev 0
pull1D
Entries 93
Mean −0.01792
Std Dev 0.9493

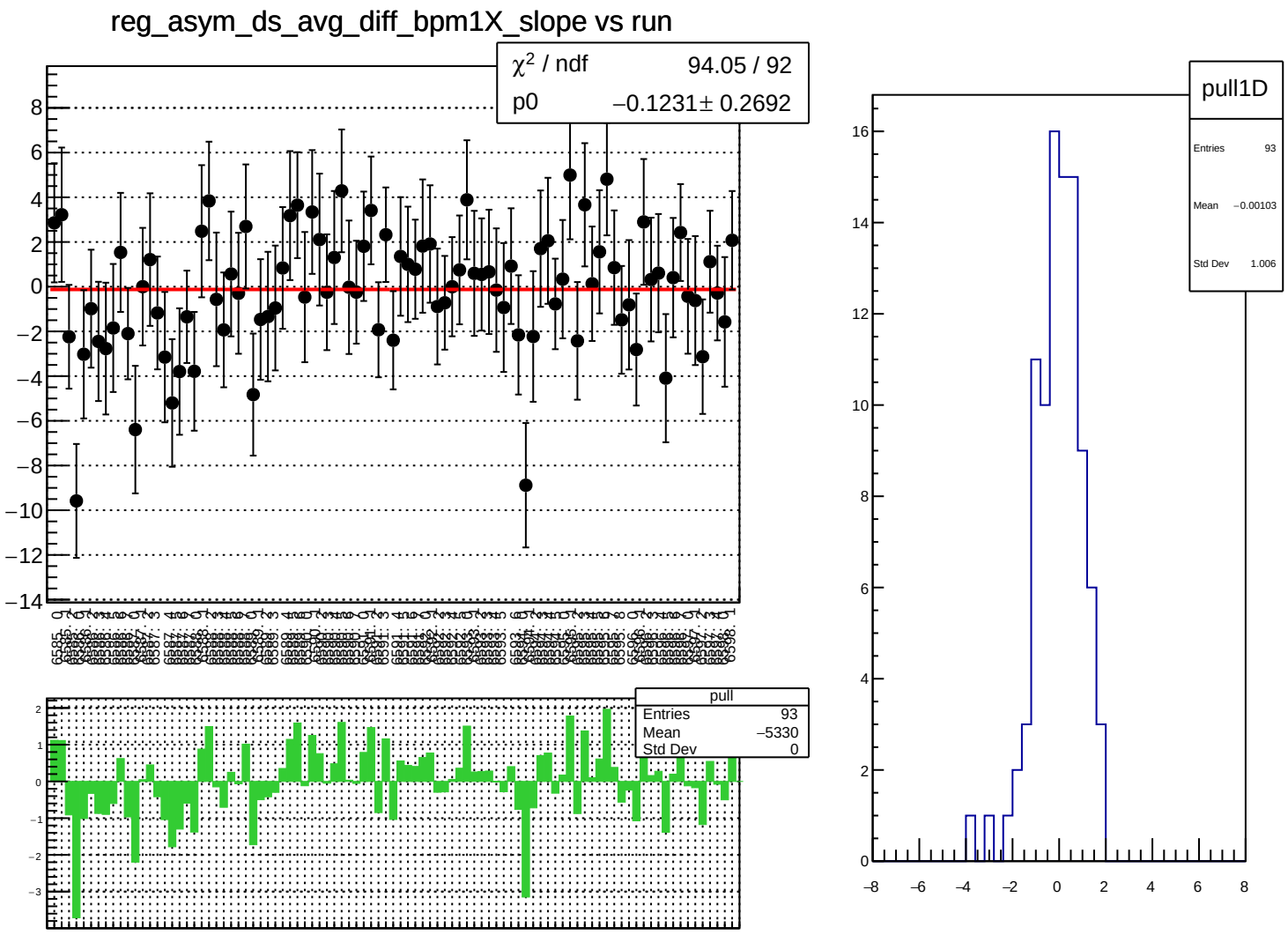

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 106 / 92
p0 −47.9 ± 0.9914
pull
Entries 93
Mean 153.2
Std Dev 0

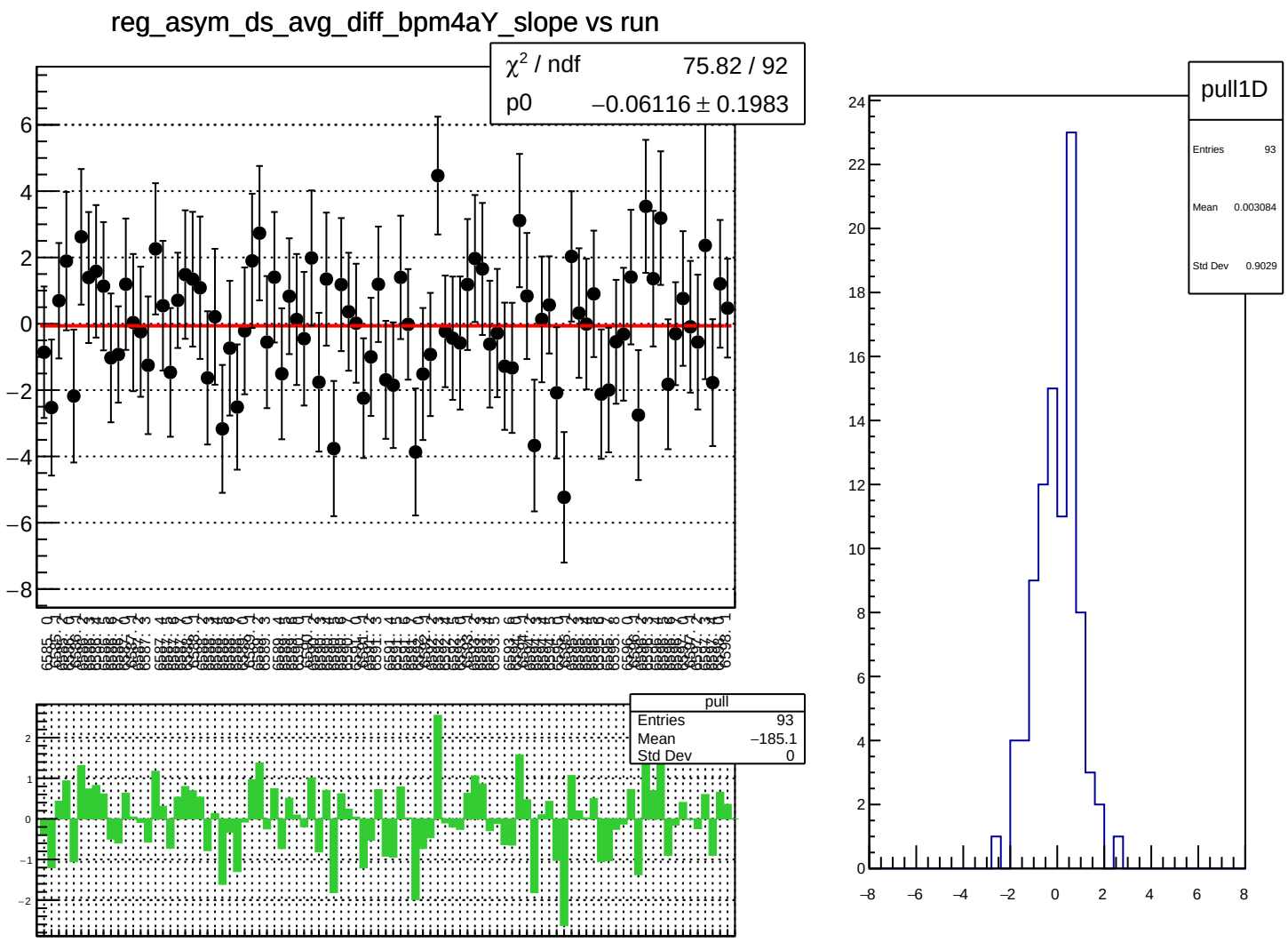

pull1D
Entries 93
Mean −0.03451
Std Dev 1.067

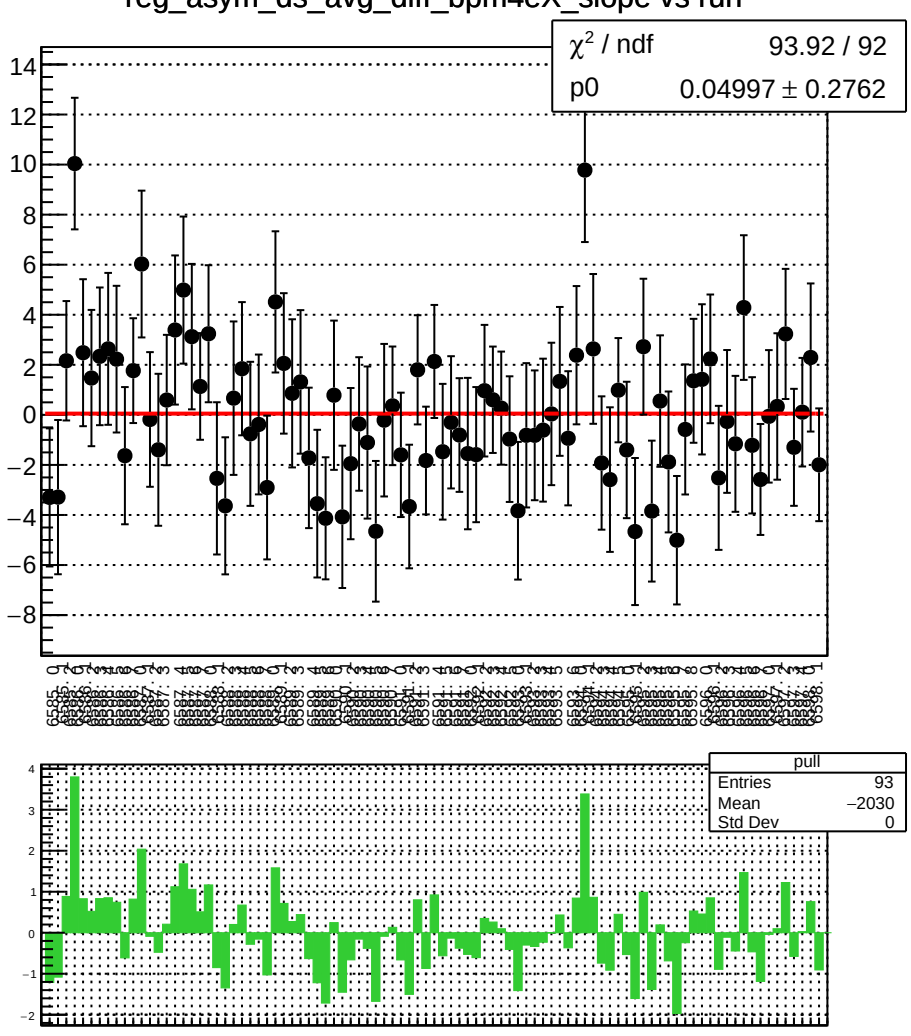

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.3 / 92
p0 0.8119 ± 0.8416
pull
Entries 93
Mean 138.2
Std Dev 90.72

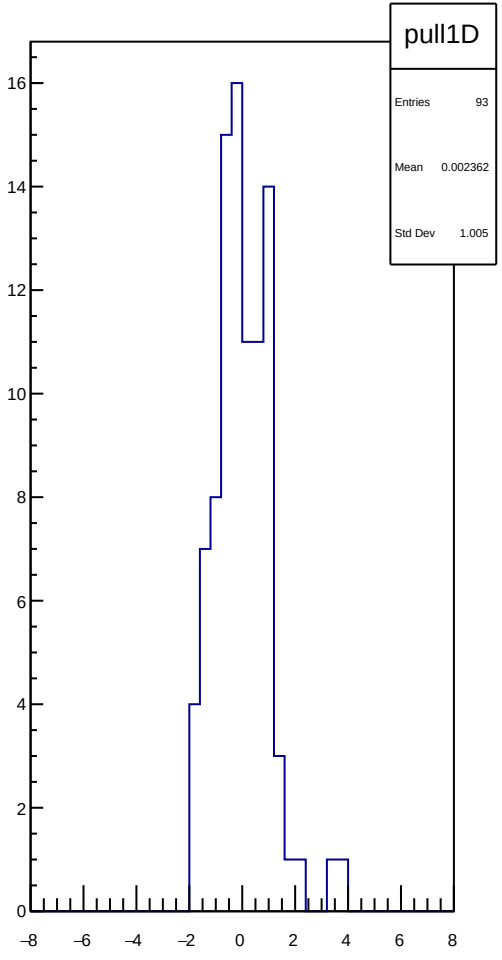

pull1D
Entries 93
Mean 0.01107
Std Dev 0.9464

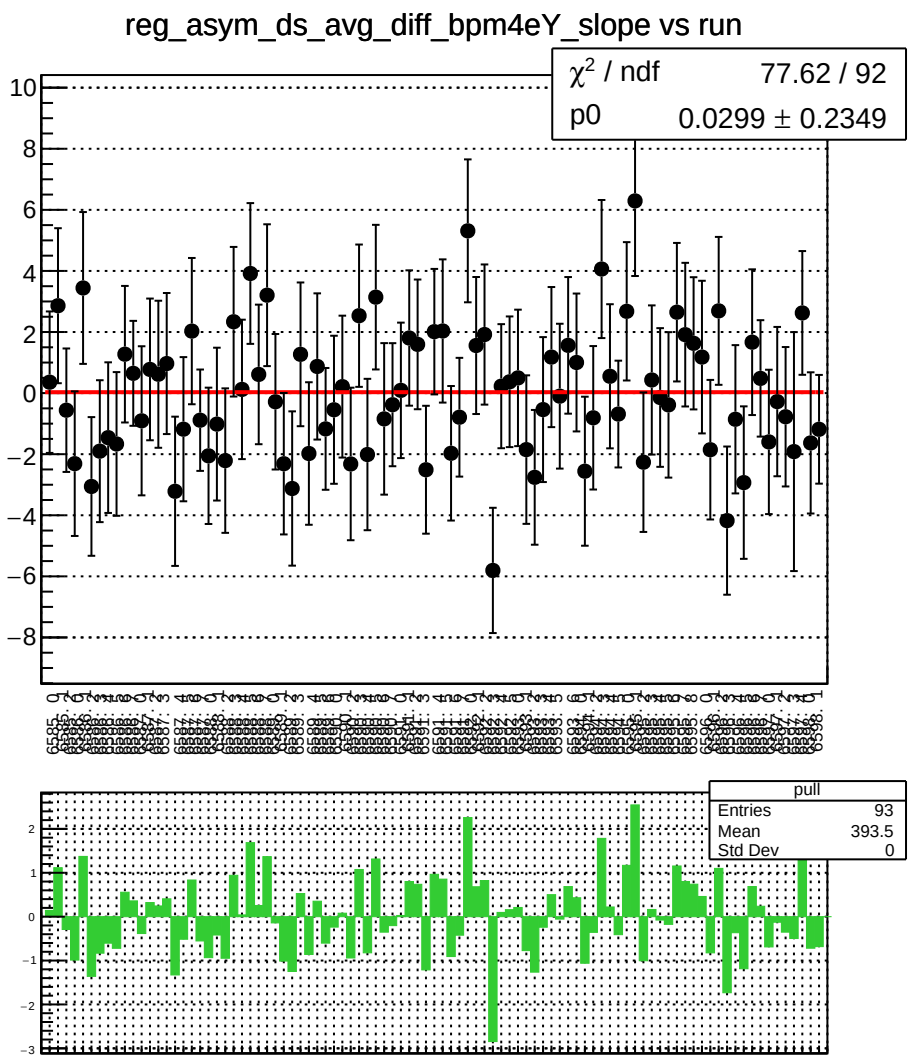

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 135 / 92
p0 −3.931 ± 0.04041
pull
Entries 93
Mean −60.5
Std Dev 0
pull1D
Entries 93
Mean 0.0187
Std Dev 1.204

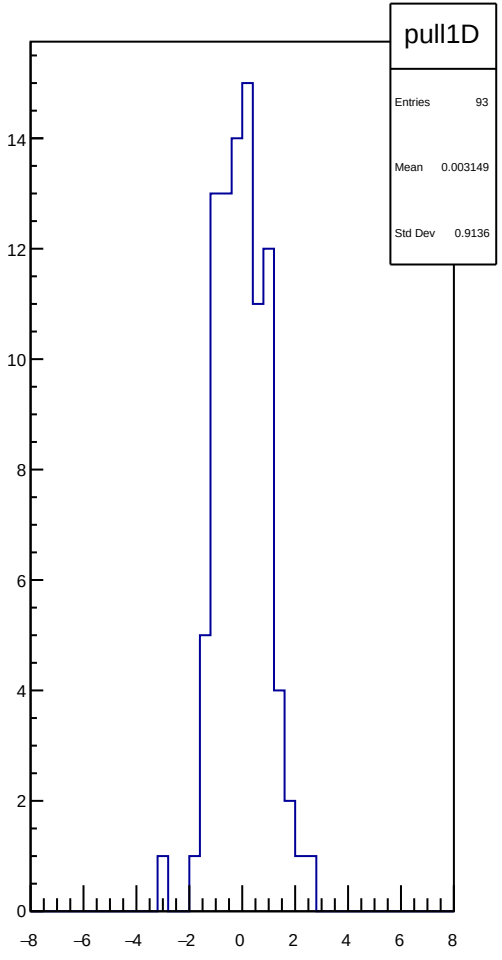

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 94.05 / 92
p0 −0.1231± 0.2692
pull
Entries 93
Mean −5330
Std Dev 0
pull1D
Entries 93
Mean −0.00103
Std Dev 1.006

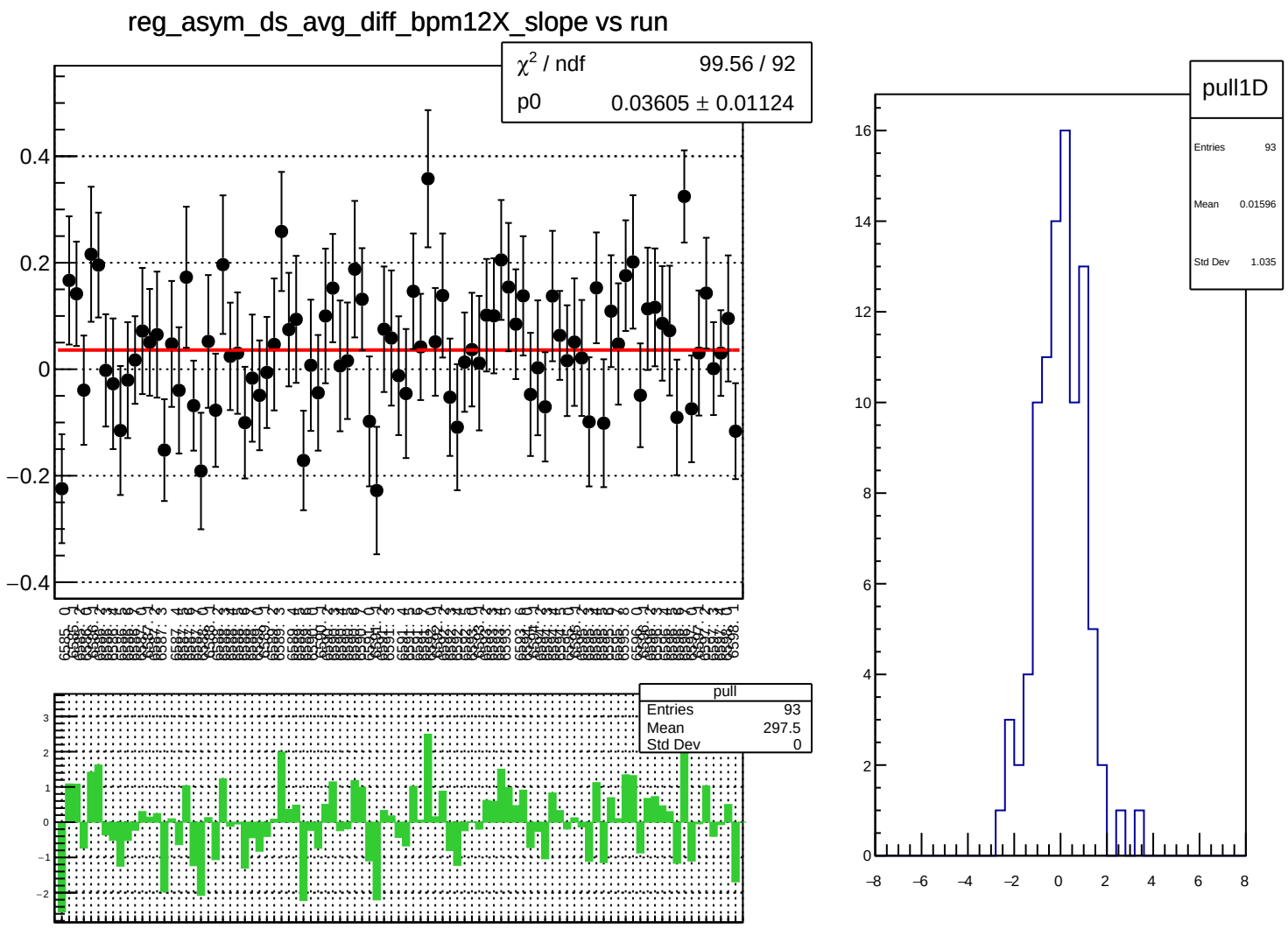

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.82 / 92
p0 −0.06116 ± 0.1983
pull
Entries 93
Mean −185.1
Std Dev 0
pull1D
Entries 93
Mean 0.003084
Std Dev 0.9029

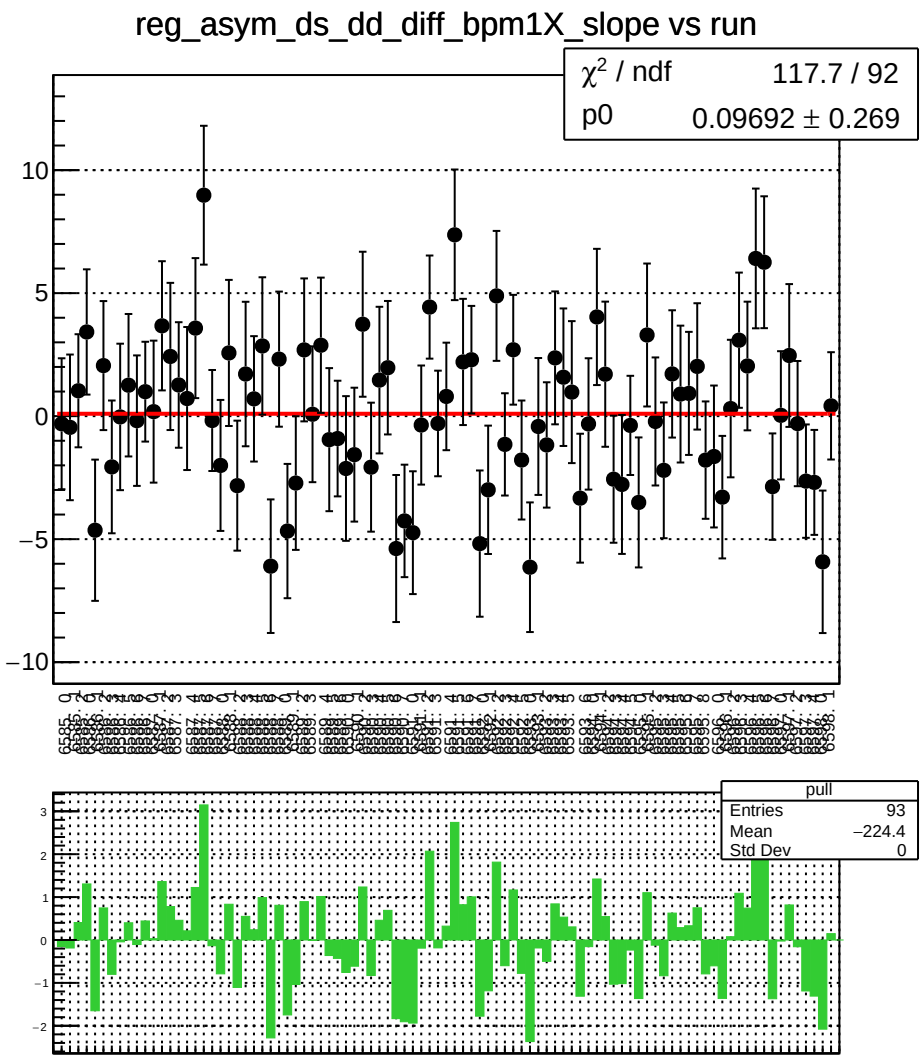

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 93.92 / 92
p0 0.04997 ± 0.2762
pull
Entries 93
Mean −2030
Std Dev 0

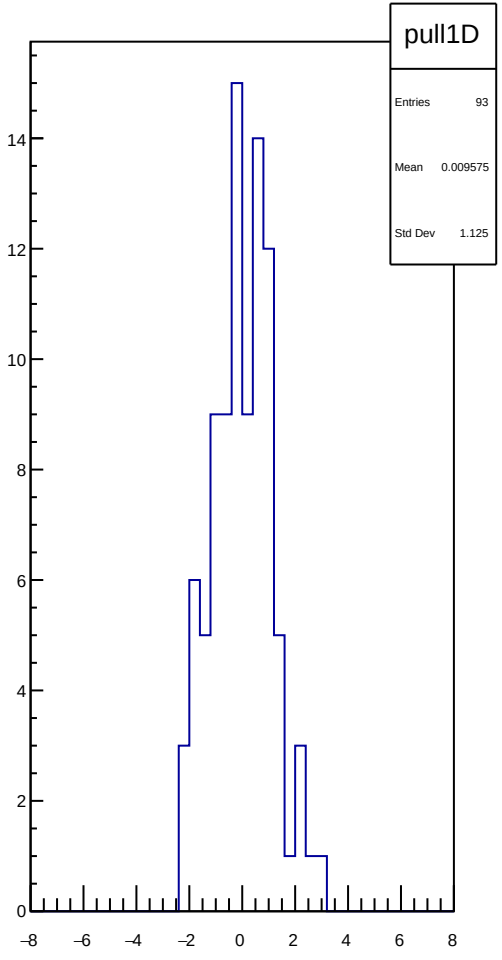

pull1D
Entries 93
Mean 0.002362
Std Dev 1.005

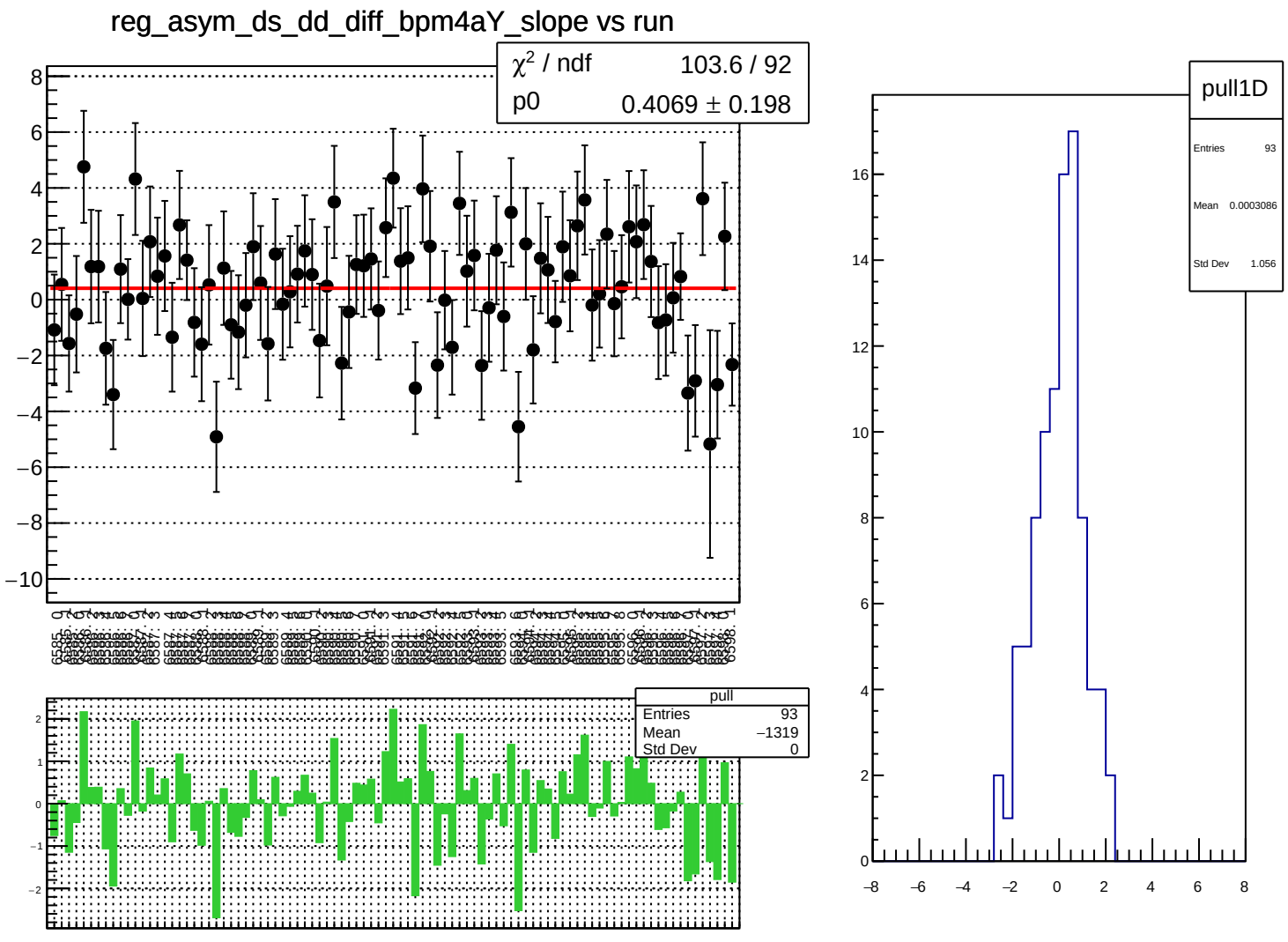

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.62 / 92
p0 0.0299 ± 0.2349
pull
Entries 93
Mean 393.5
Std Dev 0

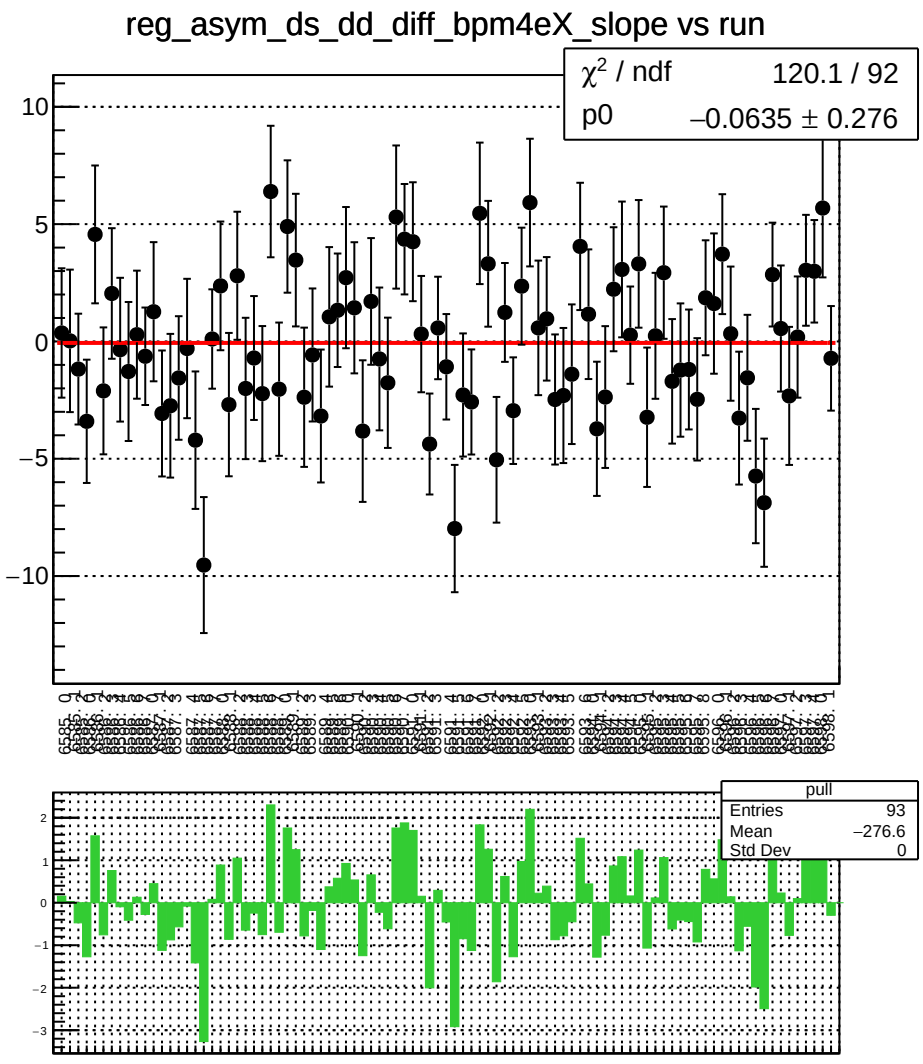

pull1D
Entries 93
Mean 0.003149
Std Dev 0.9136

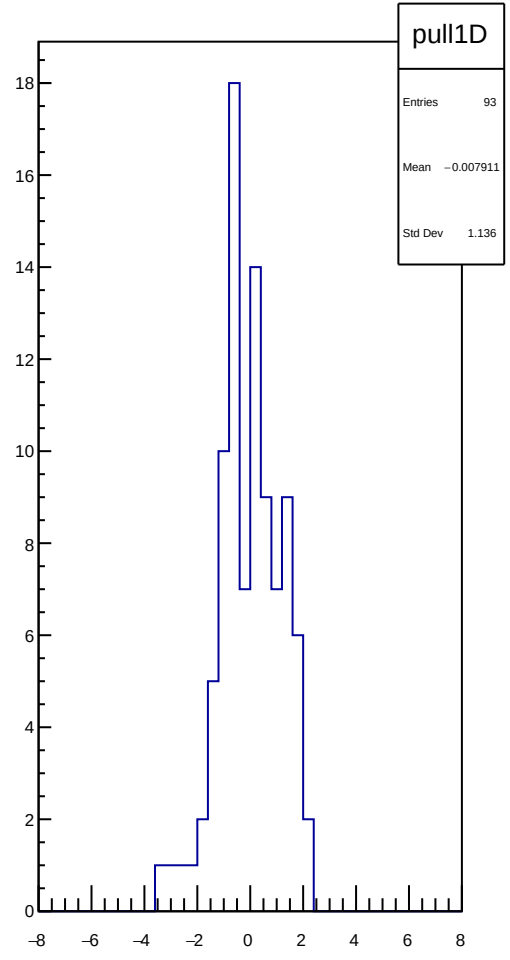

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 99.56 / 92
p0 0.03605 ± 0.01124
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 297.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01596
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

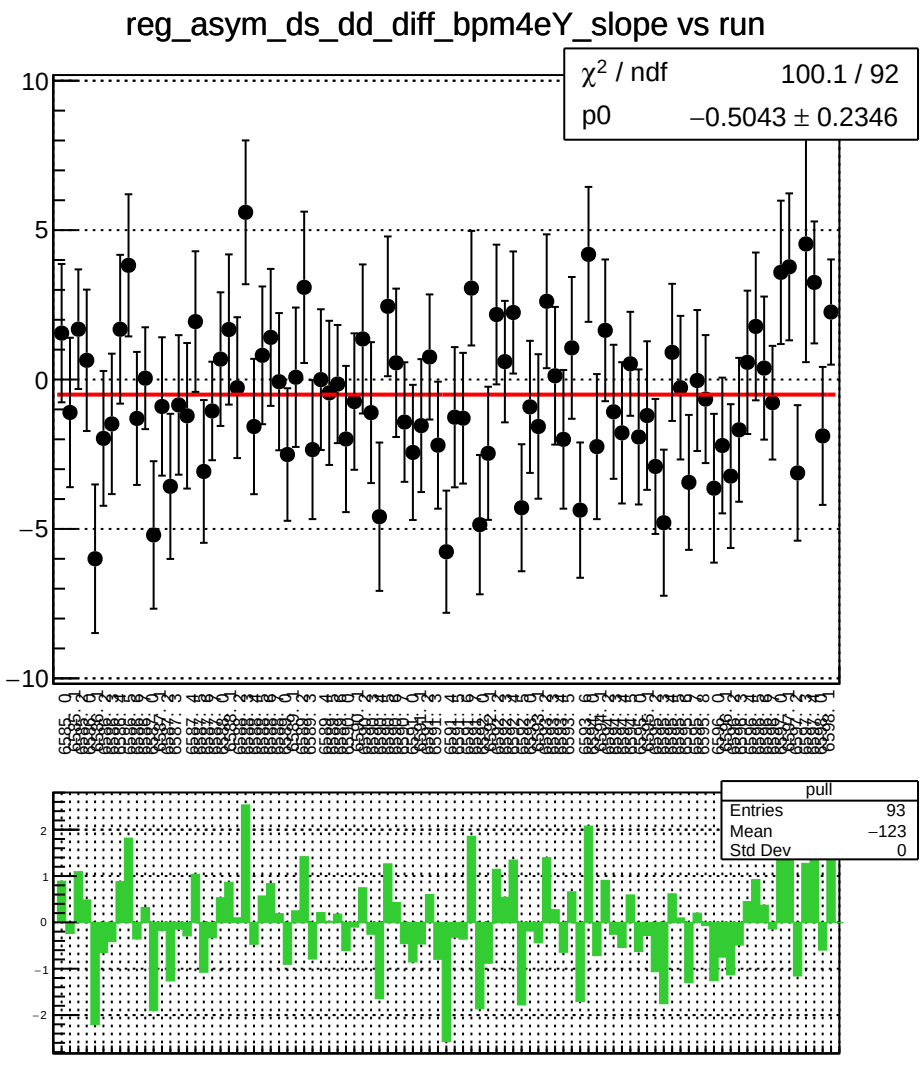

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 117.7 / 92
p0 0.09692 ± 0.269
pull
Entries 93
Mean −224.4
Std Dev 0

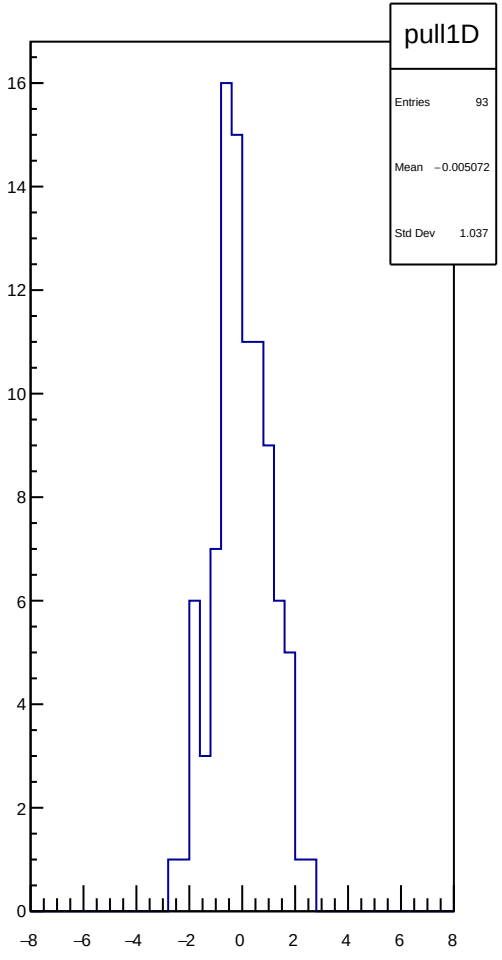

pull1D
Entries 93
Mean 0.009575
Std Dev 1.125

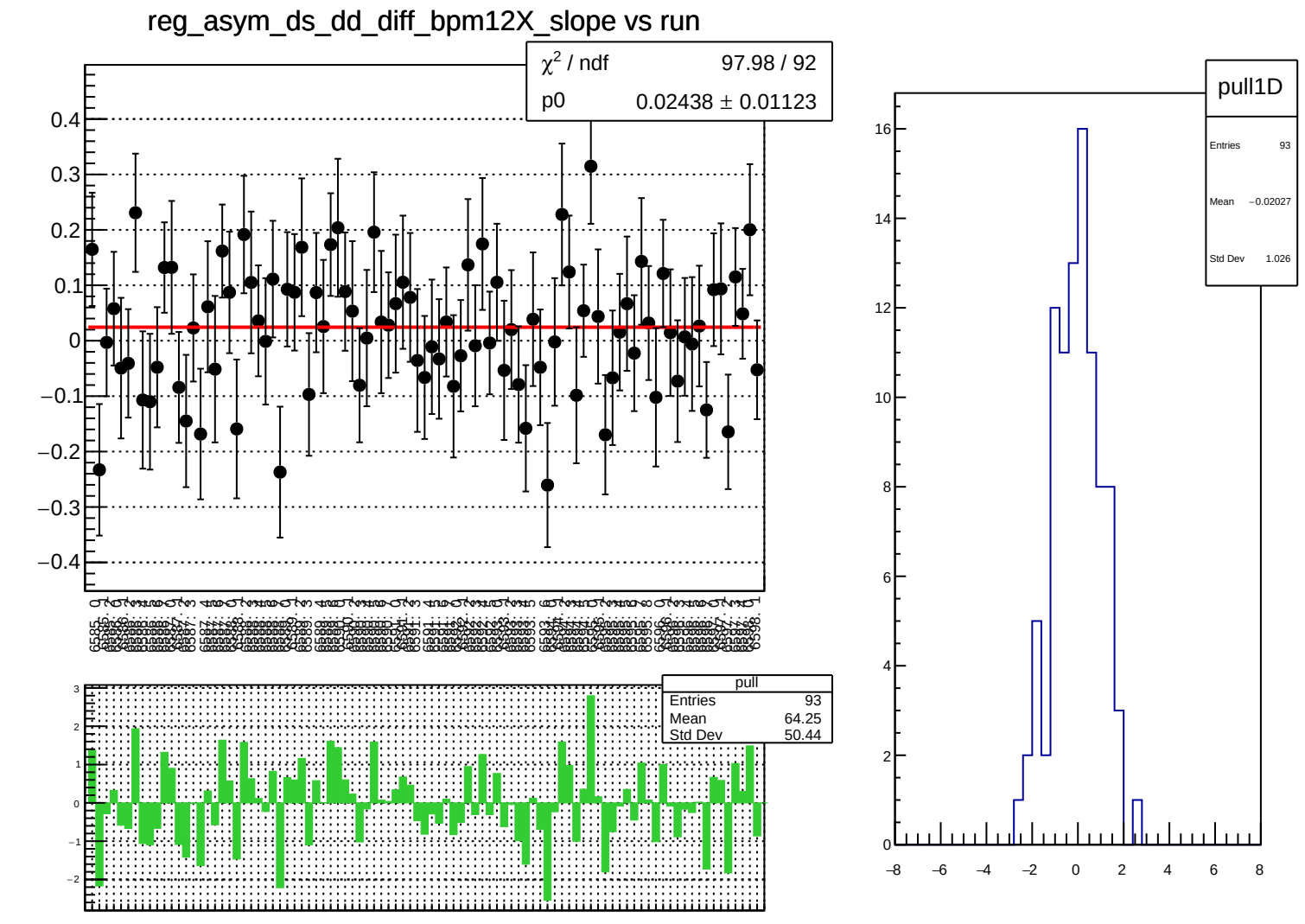

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 103.6 / 92
p0 0.4069 ± 0.198
pull
Entries 93
Mean −1319
Std Dev 0
pull1D
Entries 93
Mean 0.0003086
Std Dev 1.056

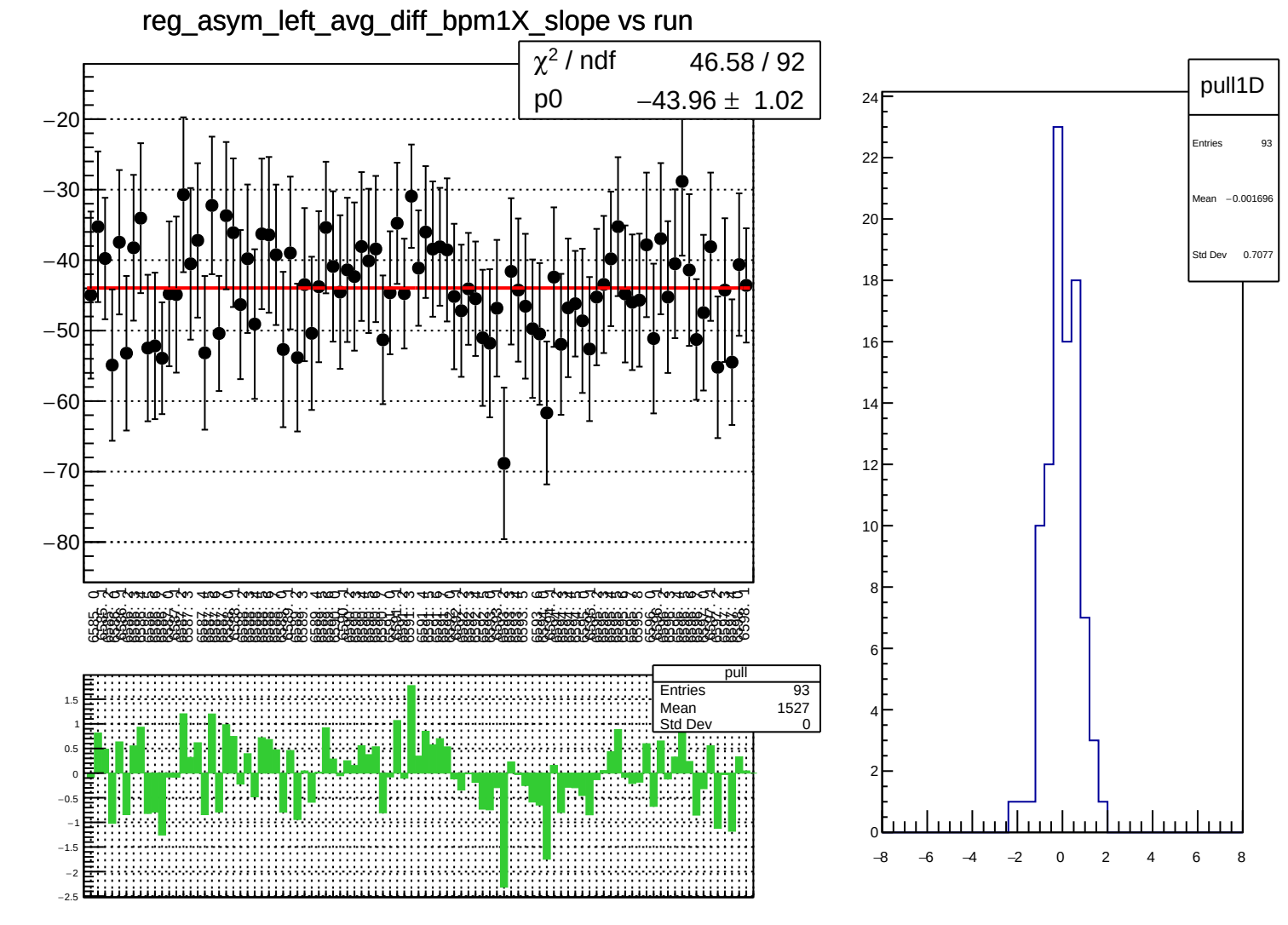

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 120.1 / 92
p0 −0.0635 ± 0.276
pull
Entries 93
Mean −276.6
Std Dev 0

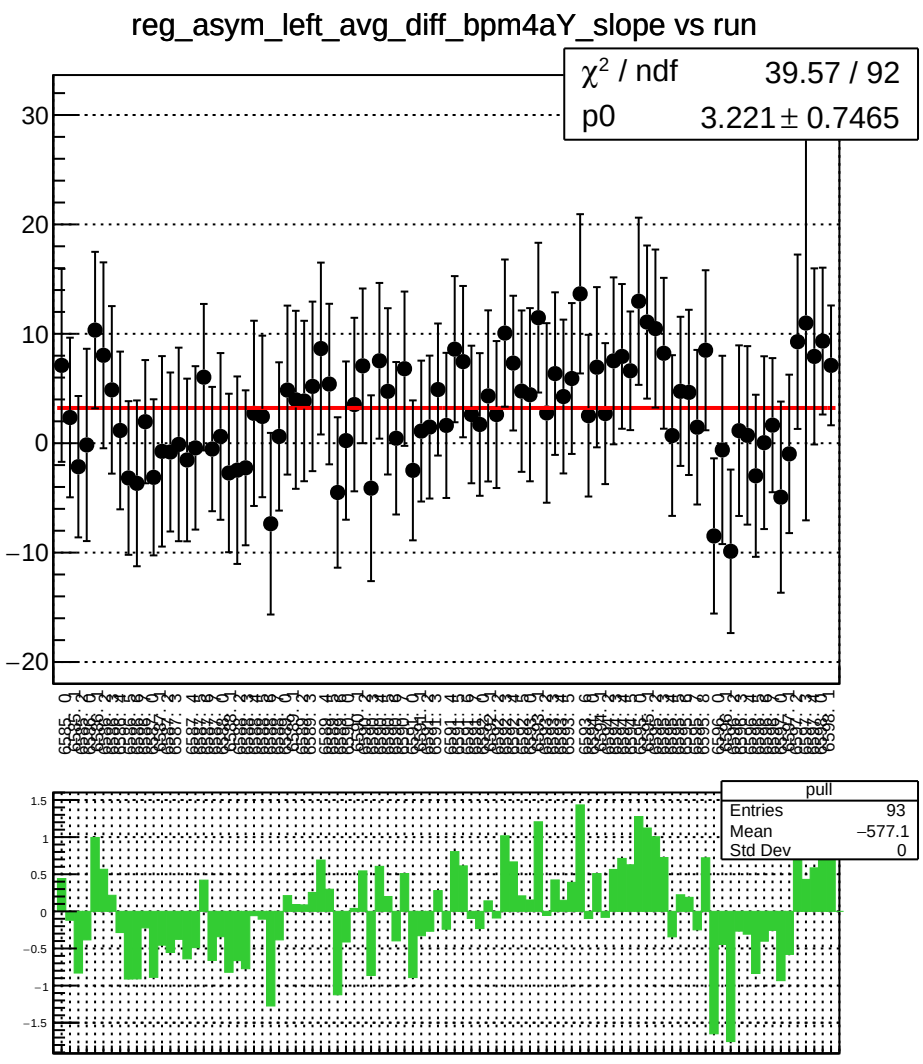

pull1D
Entries 93
Mean −0.007911
Std Dev 1.136

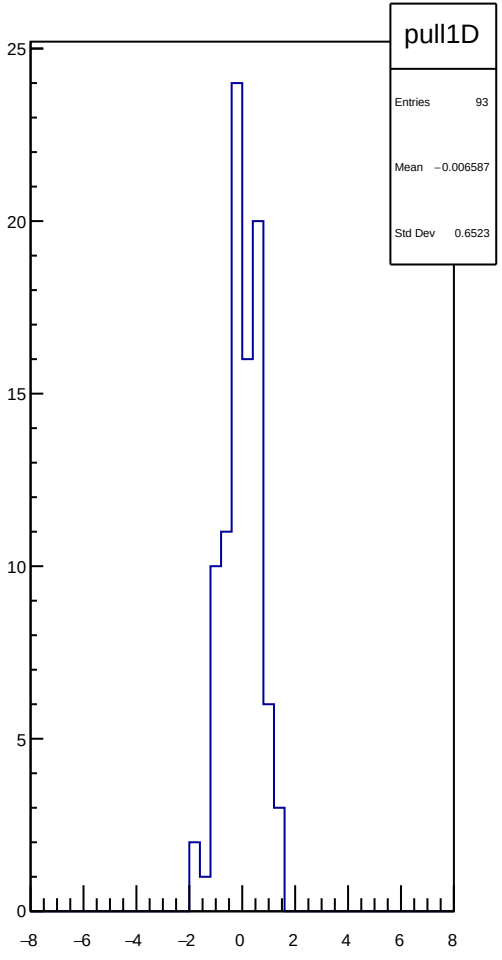

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 100.1 / 92
p0 −0.5043 ± 0.2346
pull
Entries 93
Mean −123
Std Dev 0

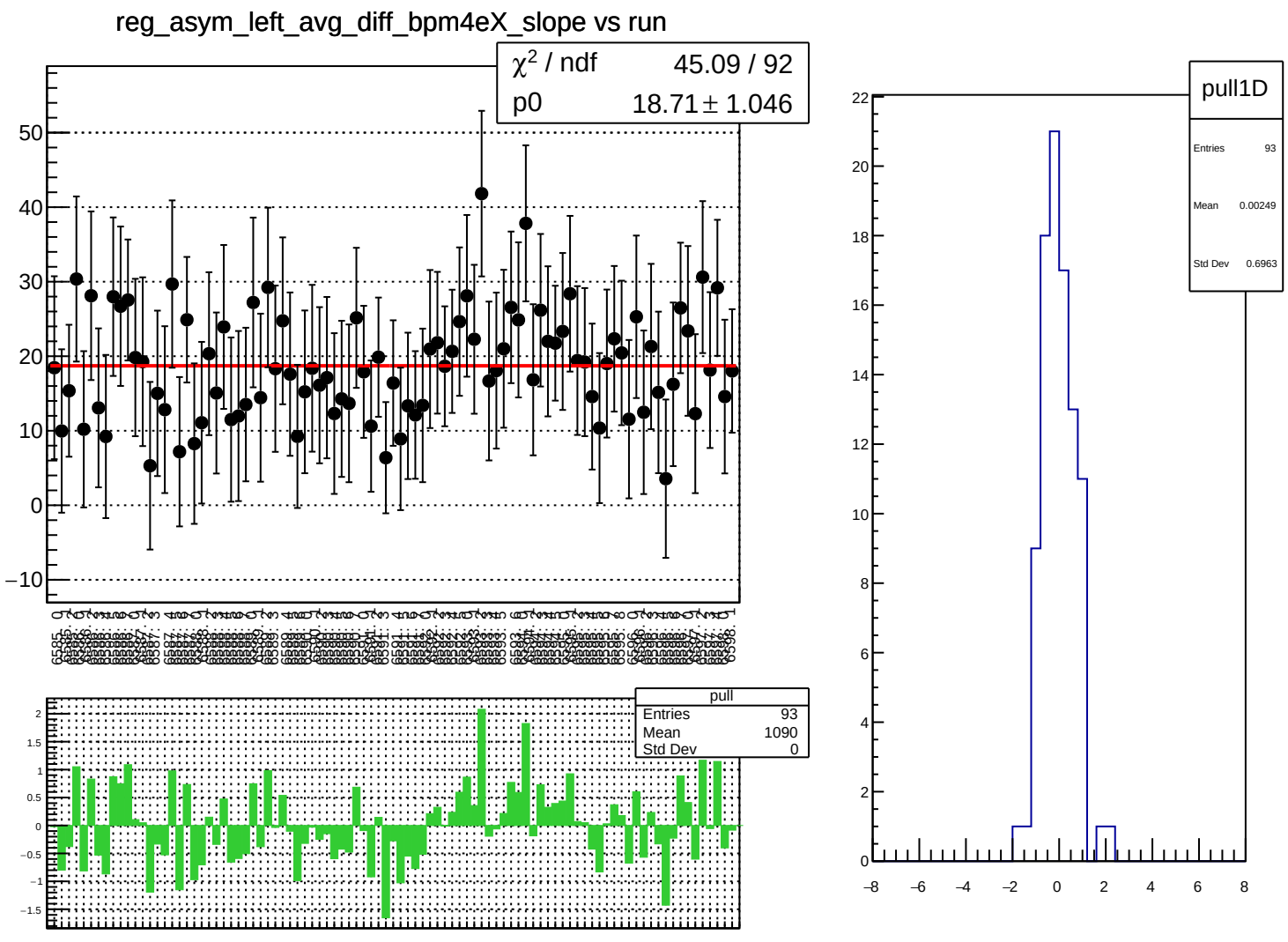

pull1D
Entries 93
Mean −0.005072
Std Dev 1.037

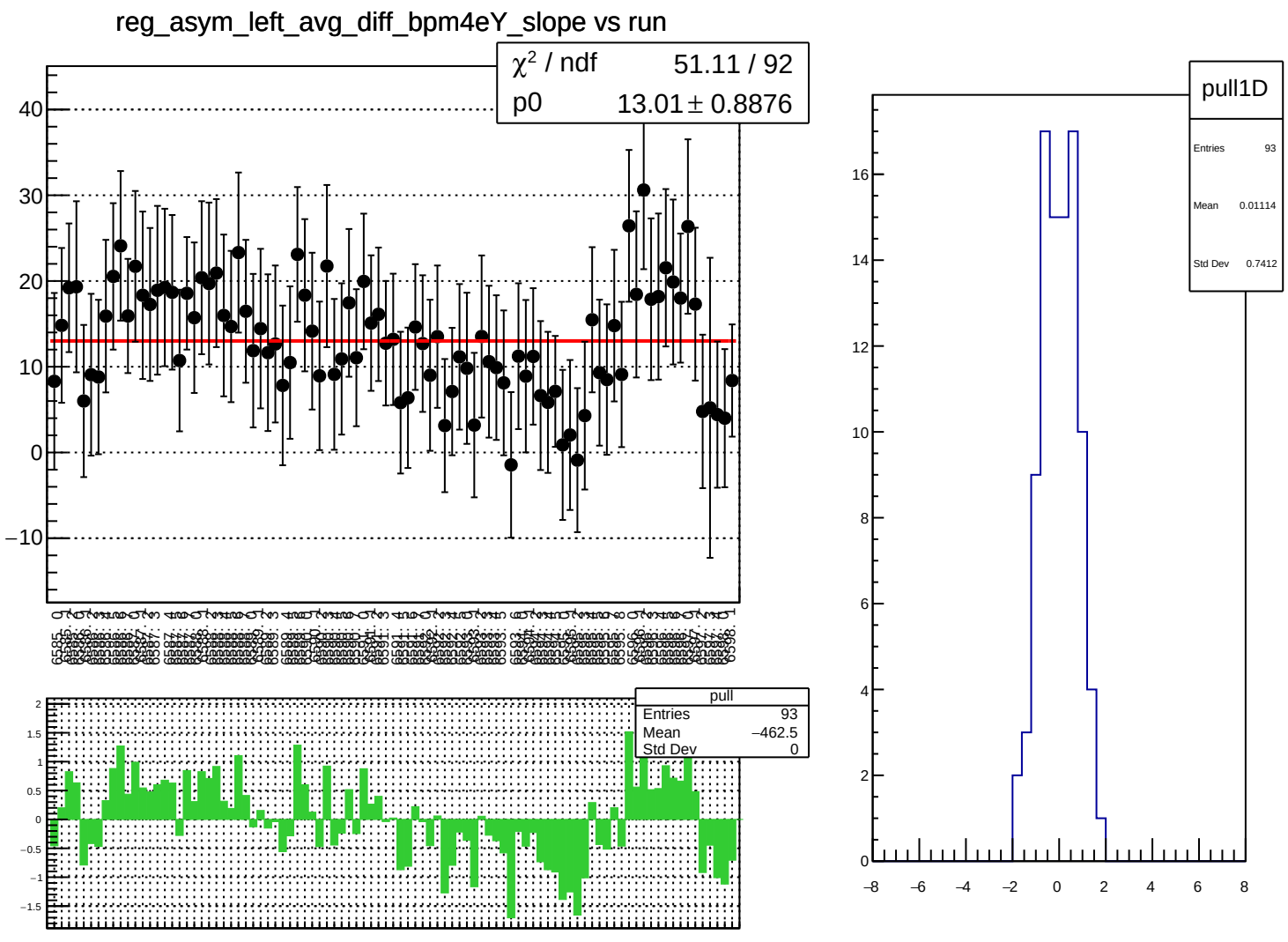

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 97.98 / 92
p0 0.02438 ± 0.01123
pull
Entries 93
Mean 64.25
Std Dev 50.44
pull1D
Entries 93
Mean −0.02027
Std Dev 1.026

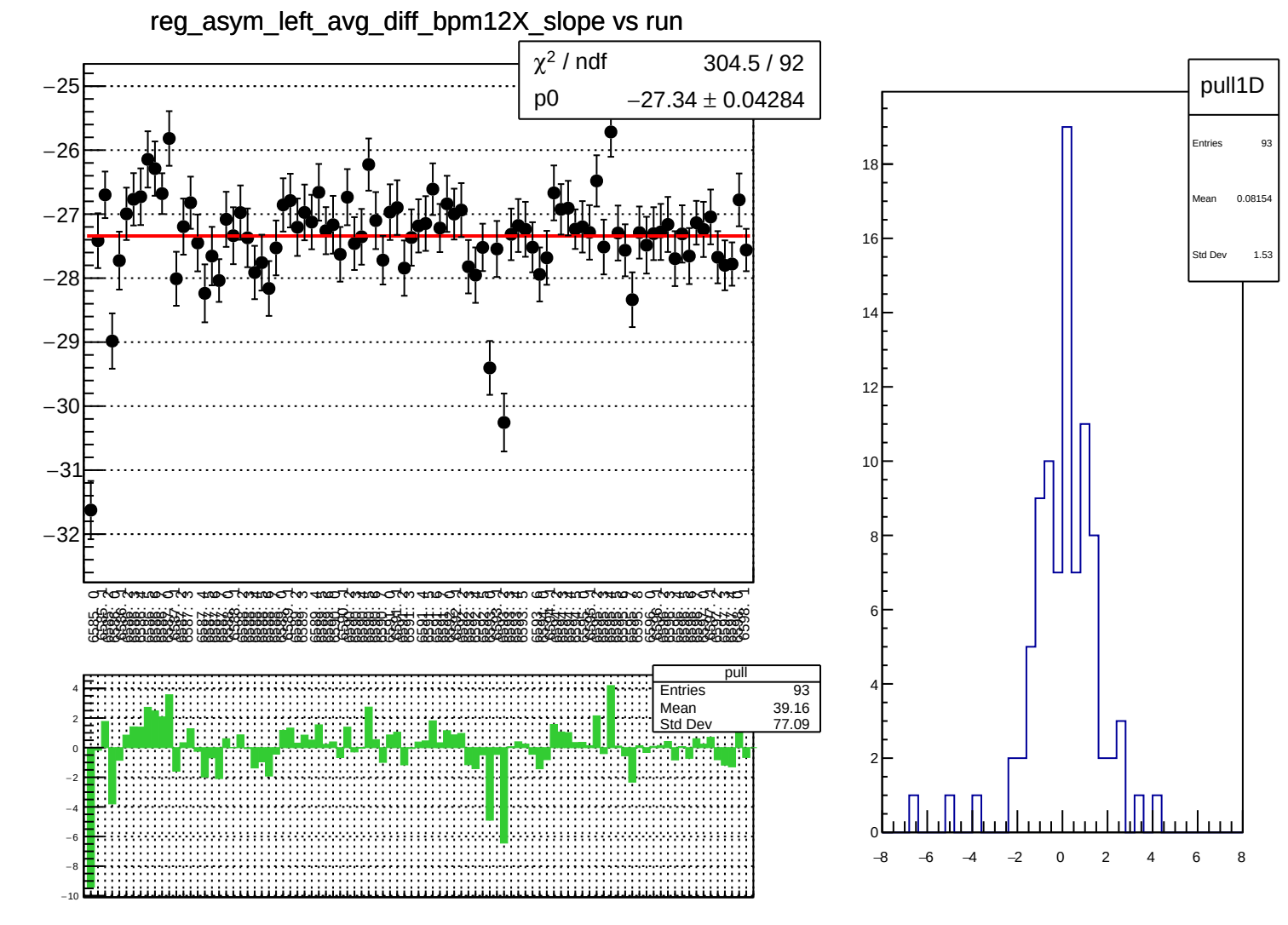

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 46.58 / 92
p0 −43.96 ± 1.02
pull
Entries 93
Mean 1527
Std Dev 0
pull1D
Entries 93
Mean −0.001696
Std Dev 0.7077

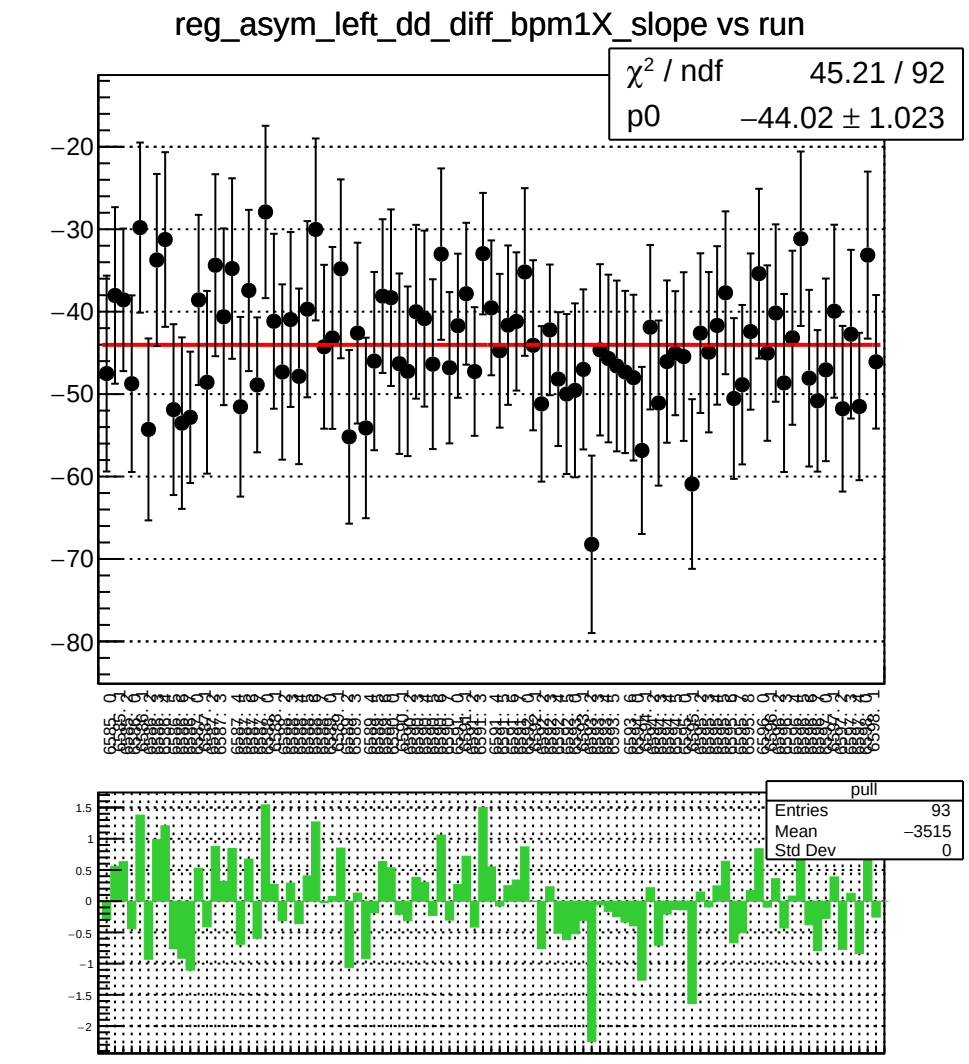

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.57 / 92
p0 3.221 ± 0.7465
pull
Entries 93
Mean −577.1
Std Dev 0

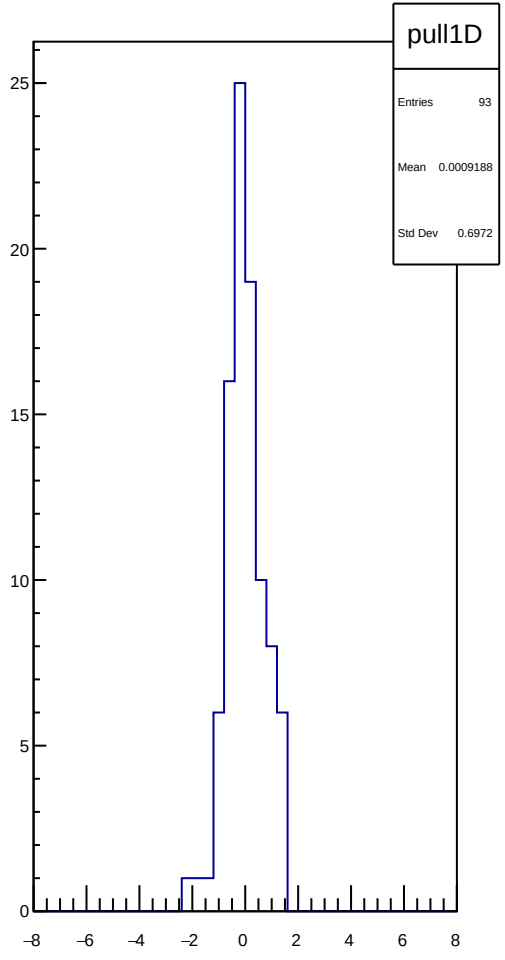

pull1D
Entries 93
Mean −0.006587
Std Dev 0.6523

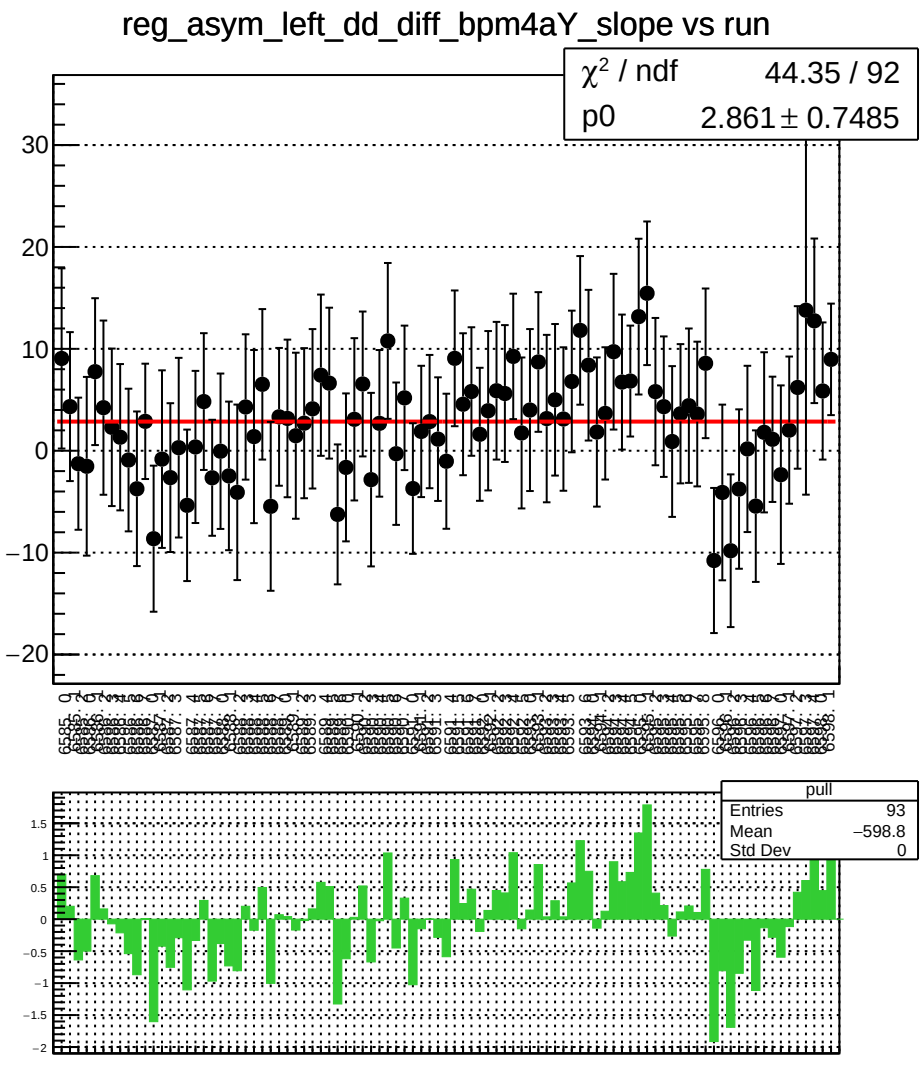

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.09 / 92
p0 18.71 ± 1.046
pull
Entries 93
Mean 1090
Std Dev 0
pull1D
Entries 93
Mean 0.00249
Std Dev 0.6963

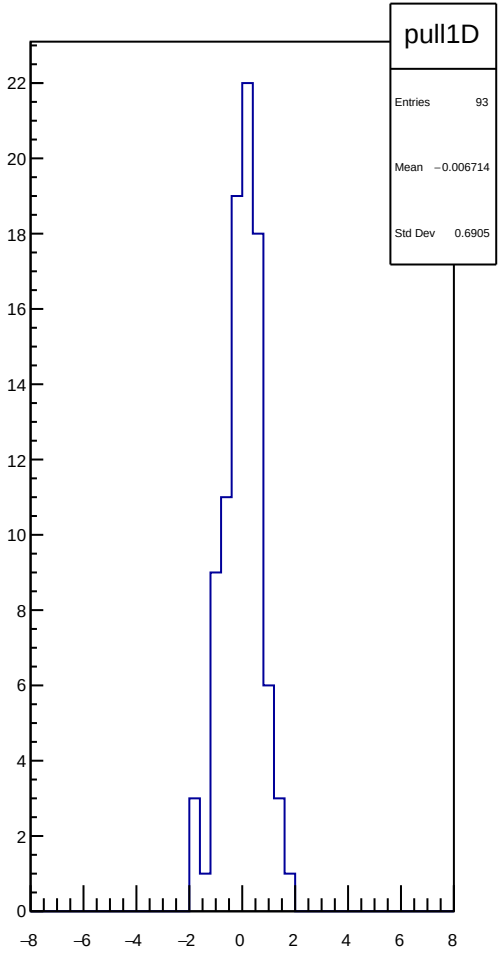

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.11 / 92
p0 13.01 ± 0.8876
pull
Entries 93
Mean −462.5
Std Dev 0
pull1D
Entries 93
Mean 0.01114
Std Dev 0.7412

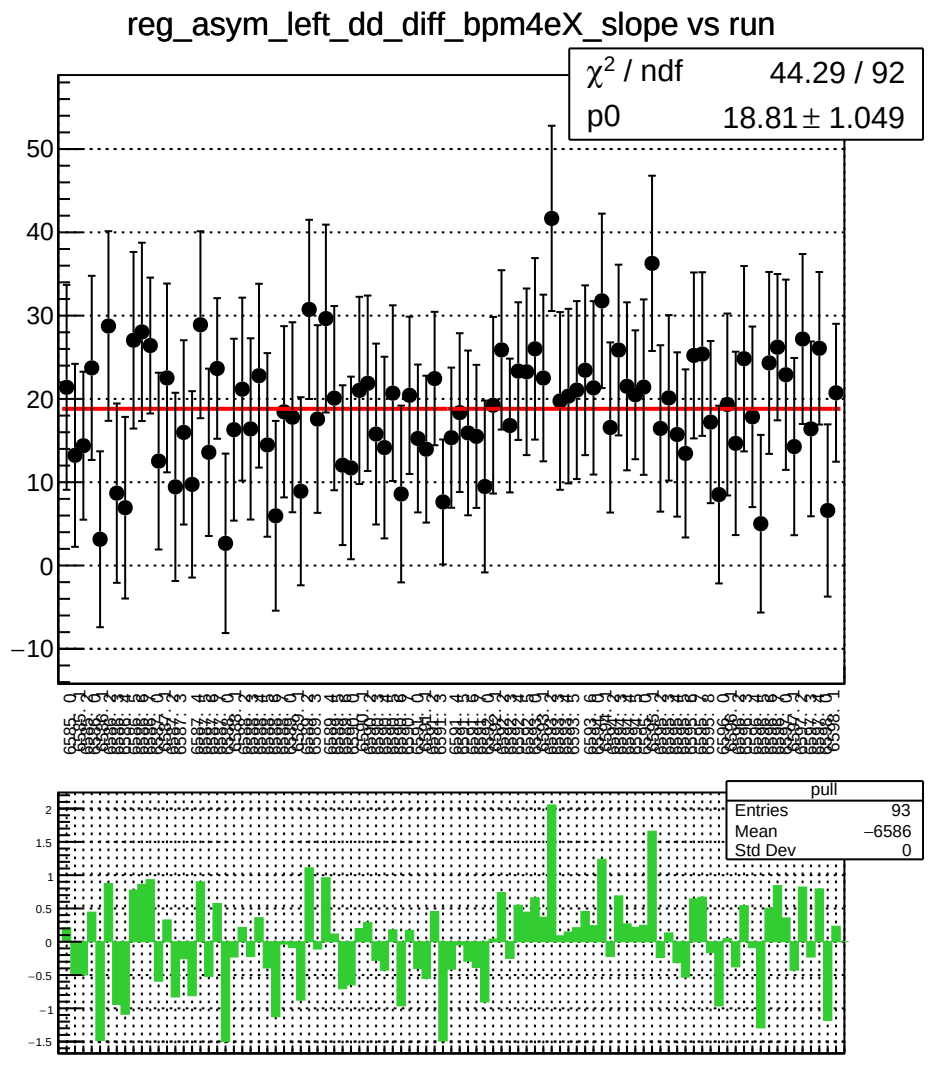

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 304.5 / 92
p0 −27.34 ± 0.04284
pull
Entries 93
Mean 39.16
Std Dev 77.09
pull1D
Entries 93
Mean 0.08154
Std Dev 1.53

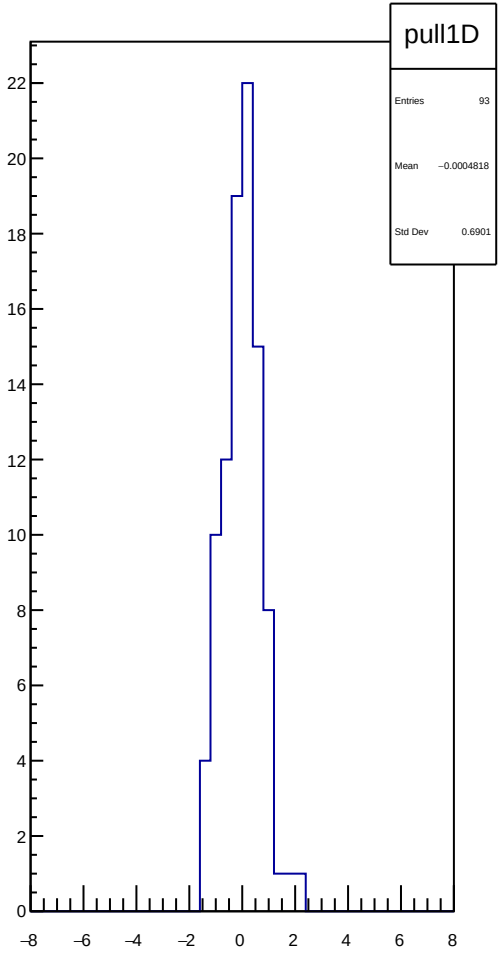

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 45.21 / 92
p0 −44.02 ± 1.023
pull
Entries 93
Mean −3515
Std Dev 0

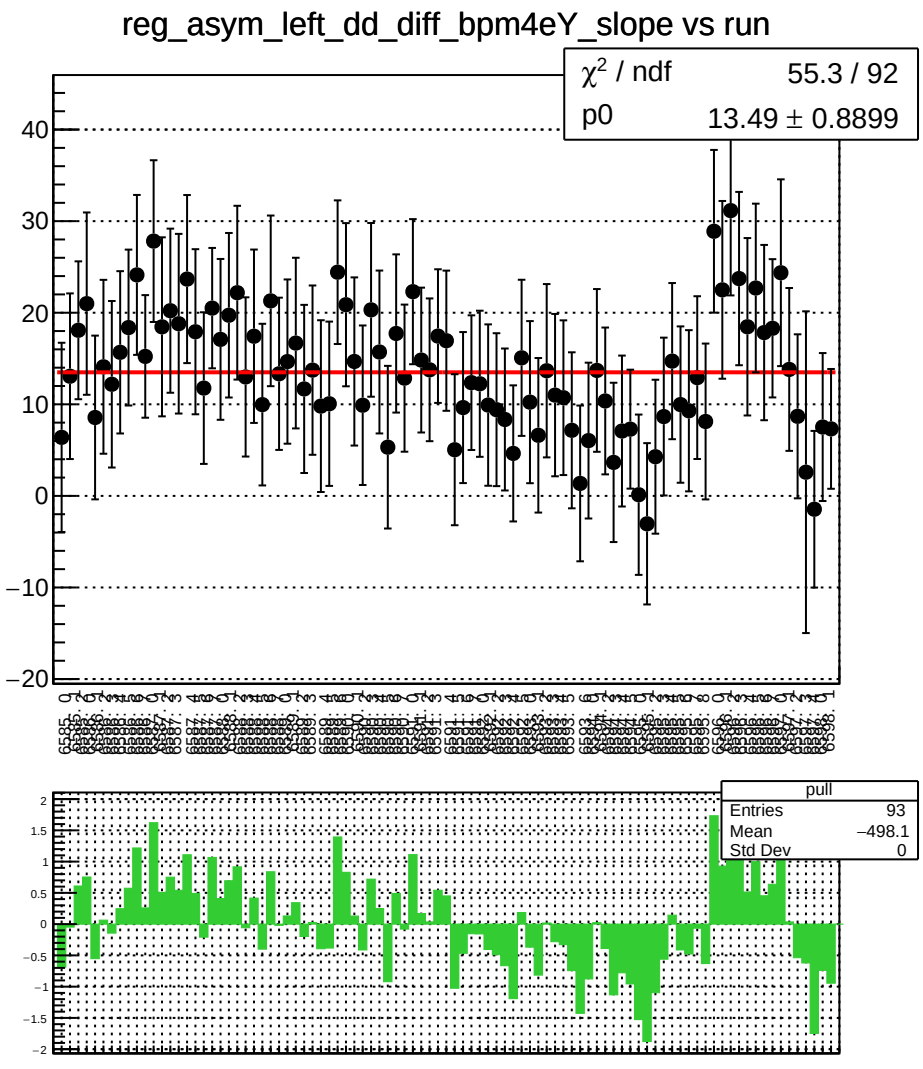

pull1D
Entries 93
Mean 0.0009188
Std Dev 0.6972

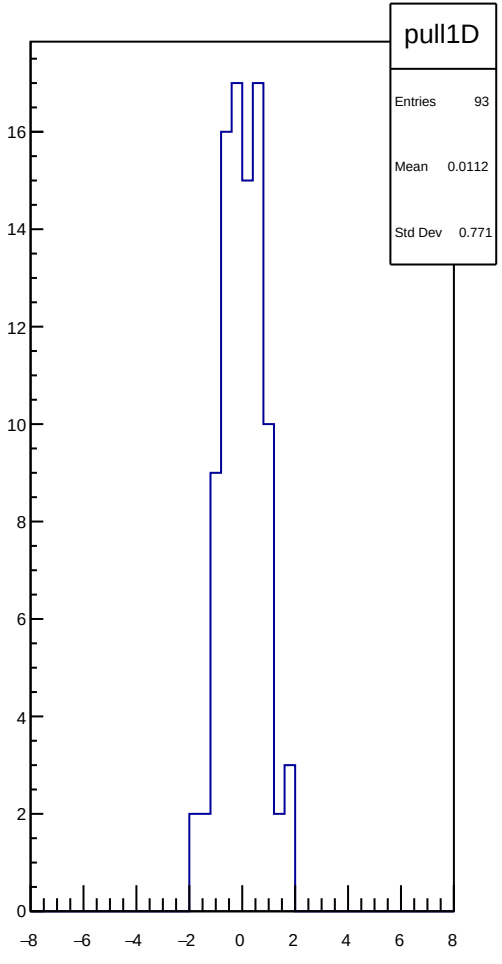

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.35 / 92
p0 2.861 ± 0.7485
pull
Entries 93
Mean −598.8
Std Dev 0

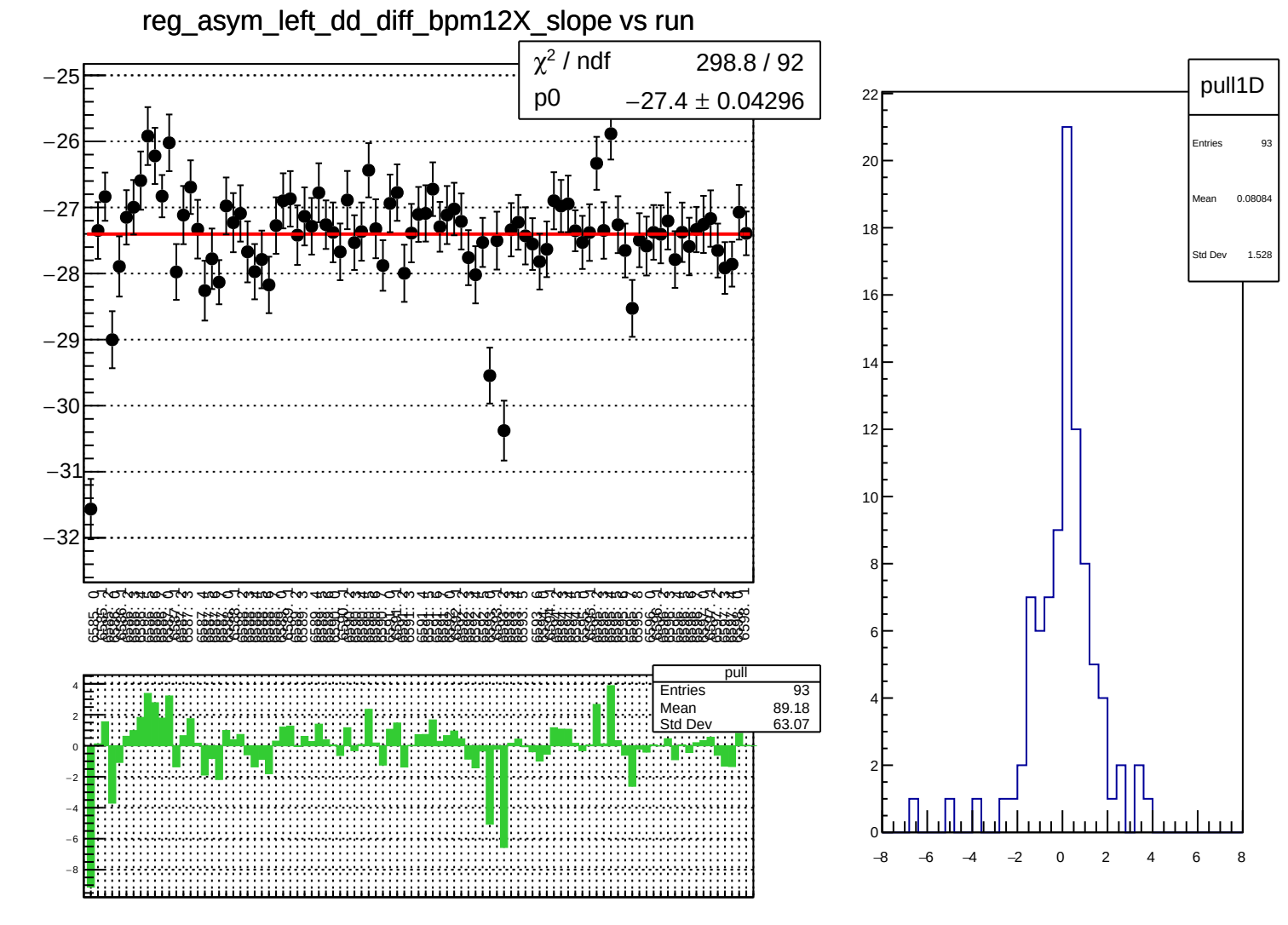

pull1D
Entries 93
Mean −0.006714
Std Dev 0.6905

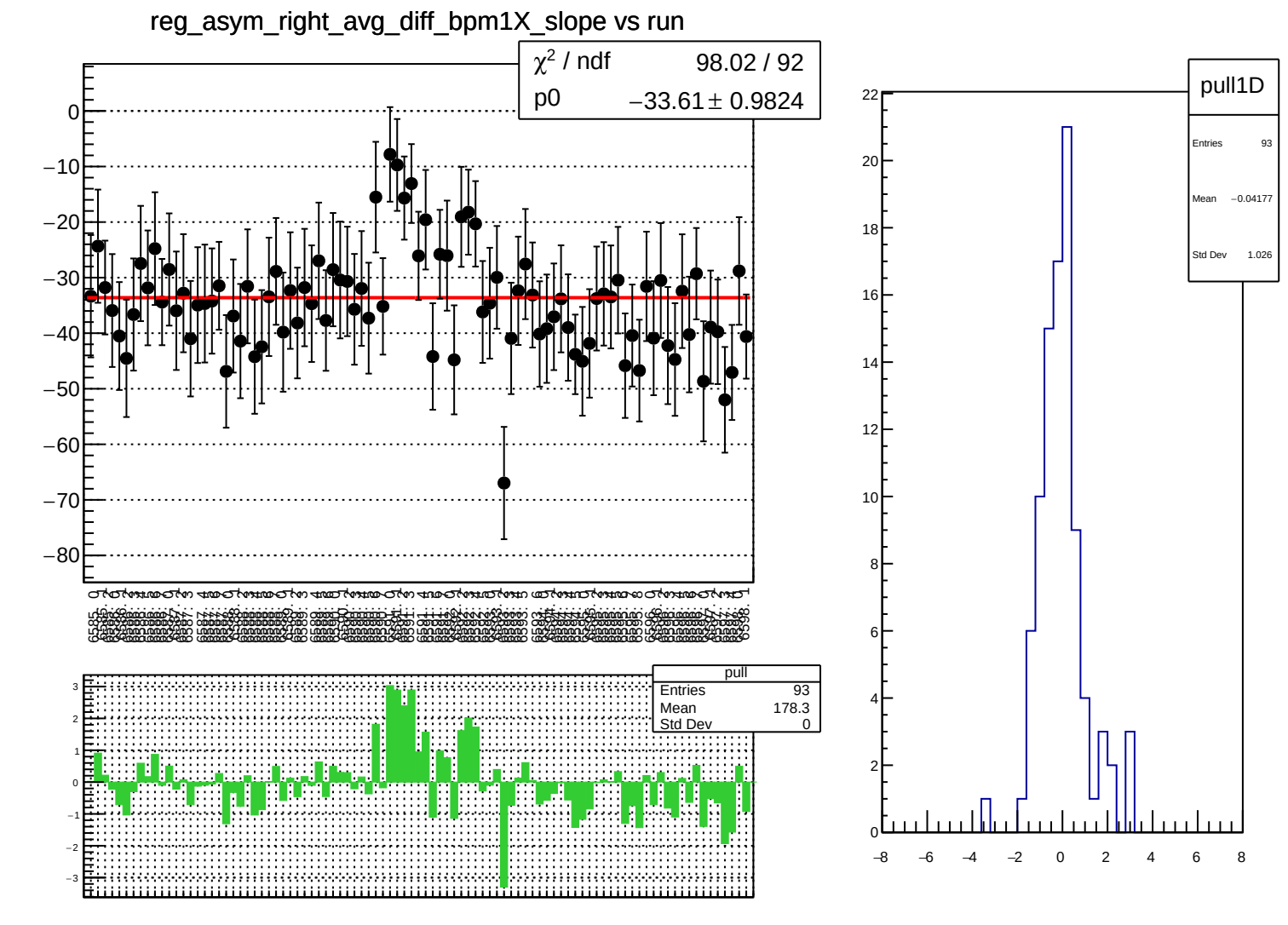

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.29 / 92
p0 18.81 ± 1.049
pull
Entries 93
Mean −6586
Std Dev 0

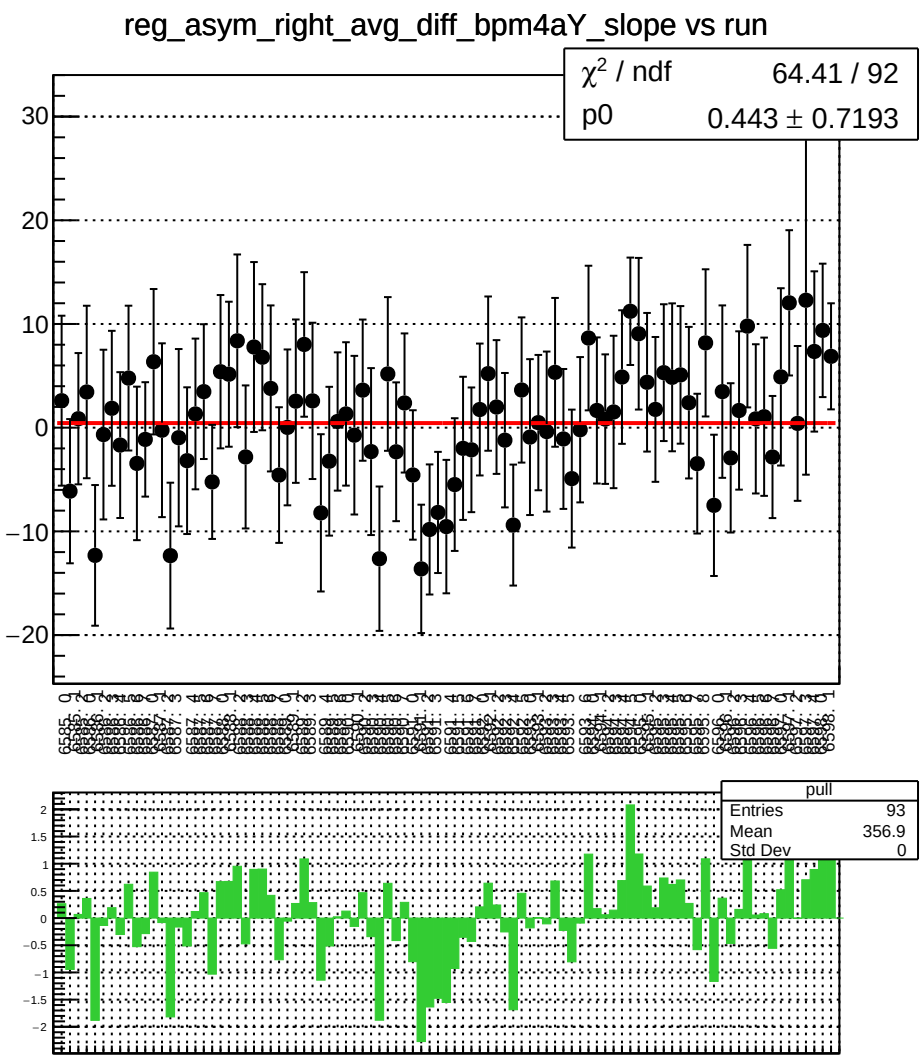

pull1D
Entries 93
Mean −0.0004818
Std Dev 0.6901

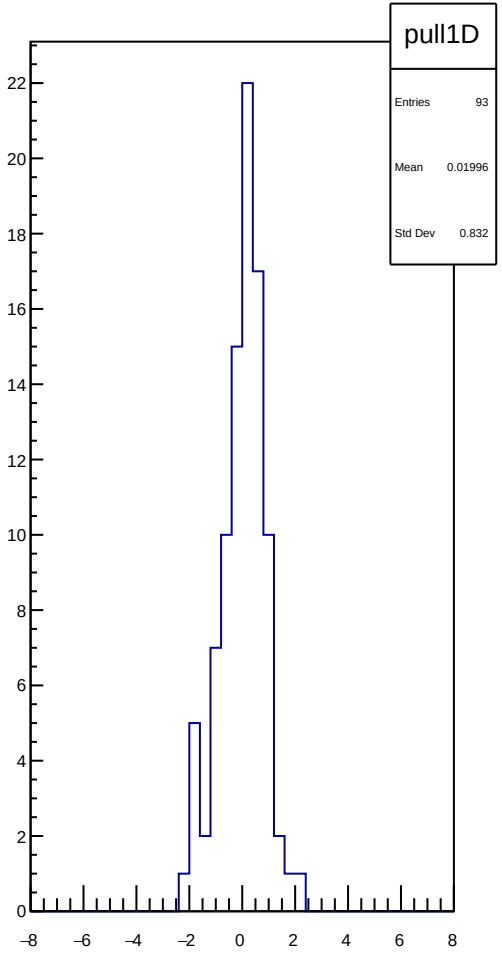

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.3 / 92
p0 13.49 ± 0.8899
pull
Entries 93
Mean −498.1
Std Dev 0

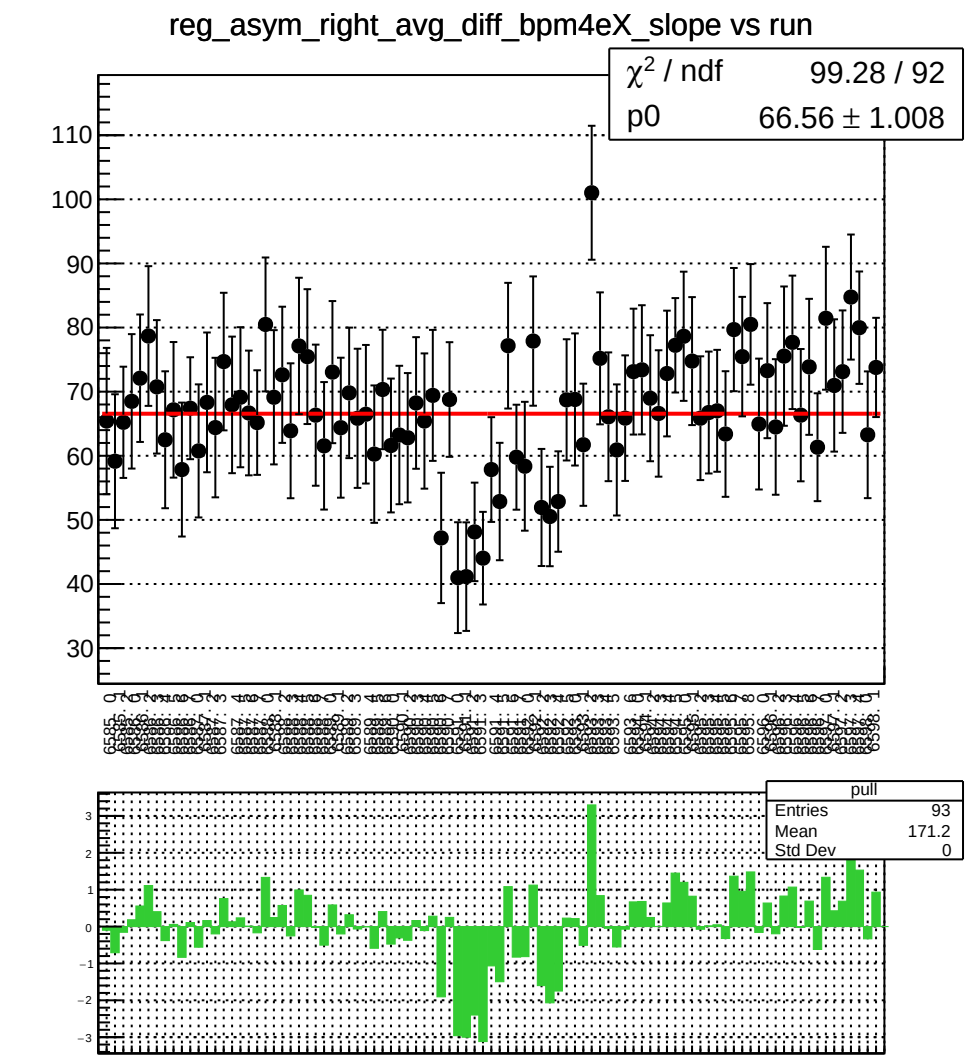

pull1D
Entries 93
Mean 0.0112
Std Dev 0.771

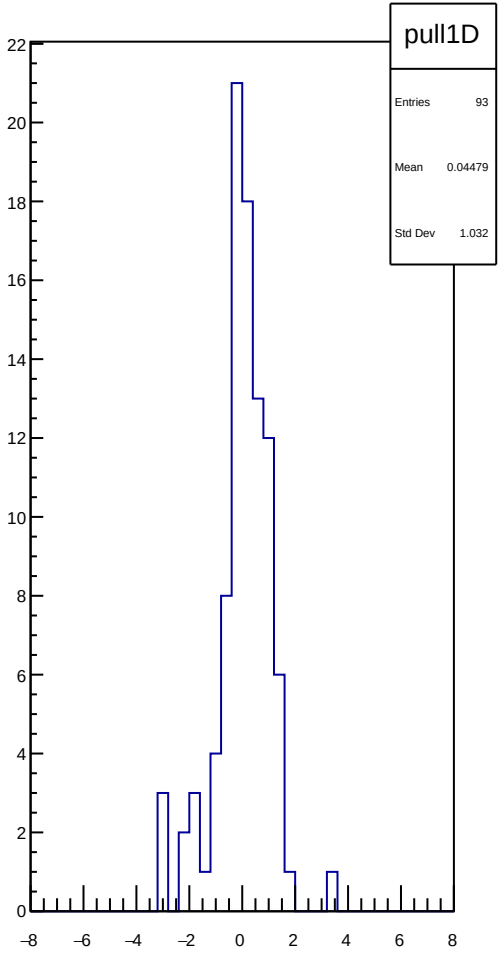

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 298.8 / 92
p0 −27.4 ± 0.04296
pull
Entries 93
Mean 89.18
Std Dev 63.07
pull1D
Entries 93
Mean 0.08084
Std Dev 1.528

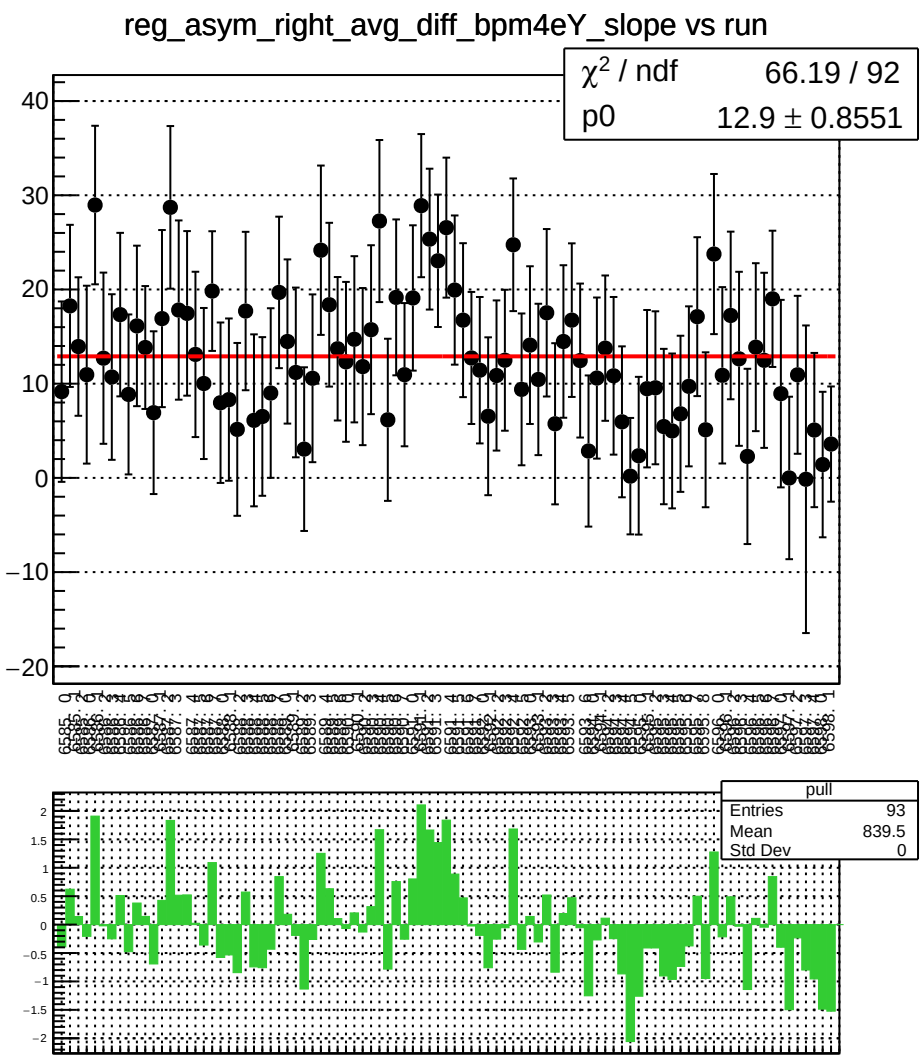

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 98.02 / 92
p0 −33.61 ± 0.9824
pull
Entries 93
Mean 178.3
Std Dev 0
pull1D
Entries 93
Mean −0.04177
Std Dev 1.026

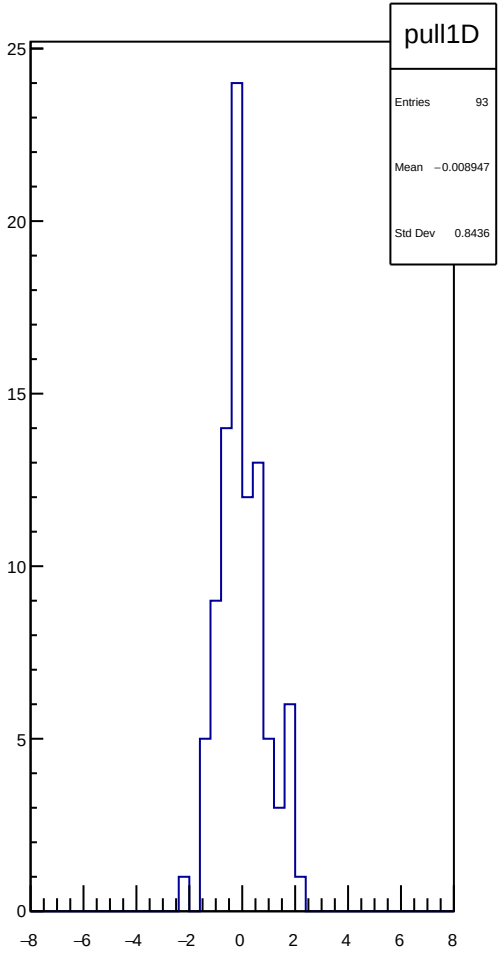

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.41 / 92
p0 0.443 ± 0.7193
pull
Entries 93
Mean 356.9
Std Dev 0

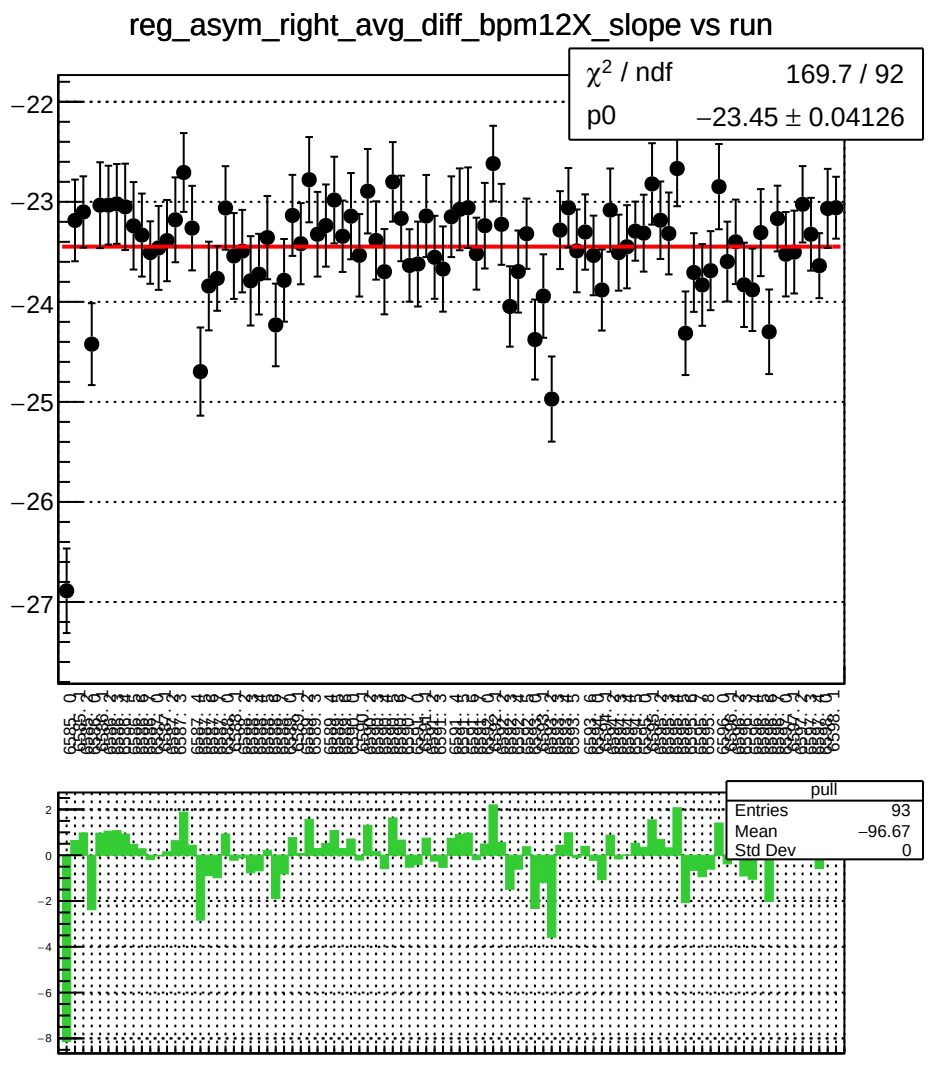

pull1D
Entries 93
Mean 0.01996
Std Dev 0.832

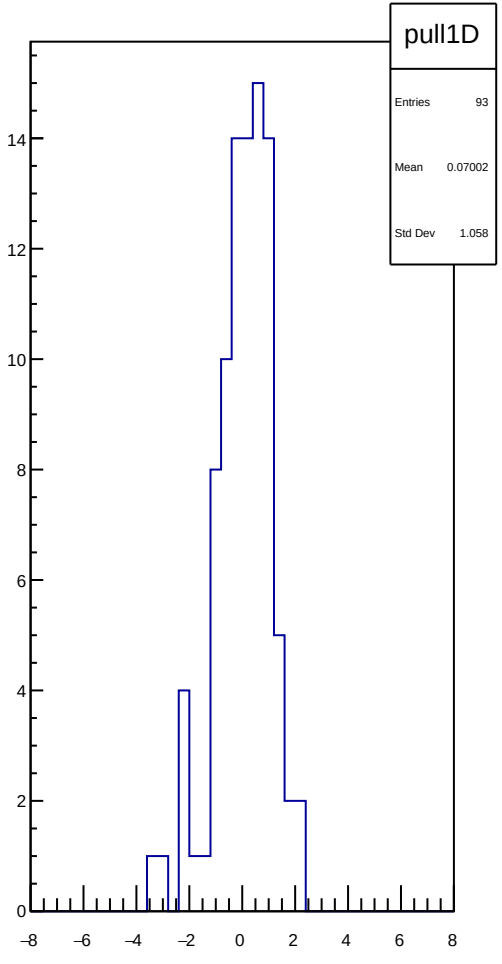

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 99.28 / 92
p0 66.56 ± 1.008
pull
Entries 93
Mean 171.2
Std Dev 0

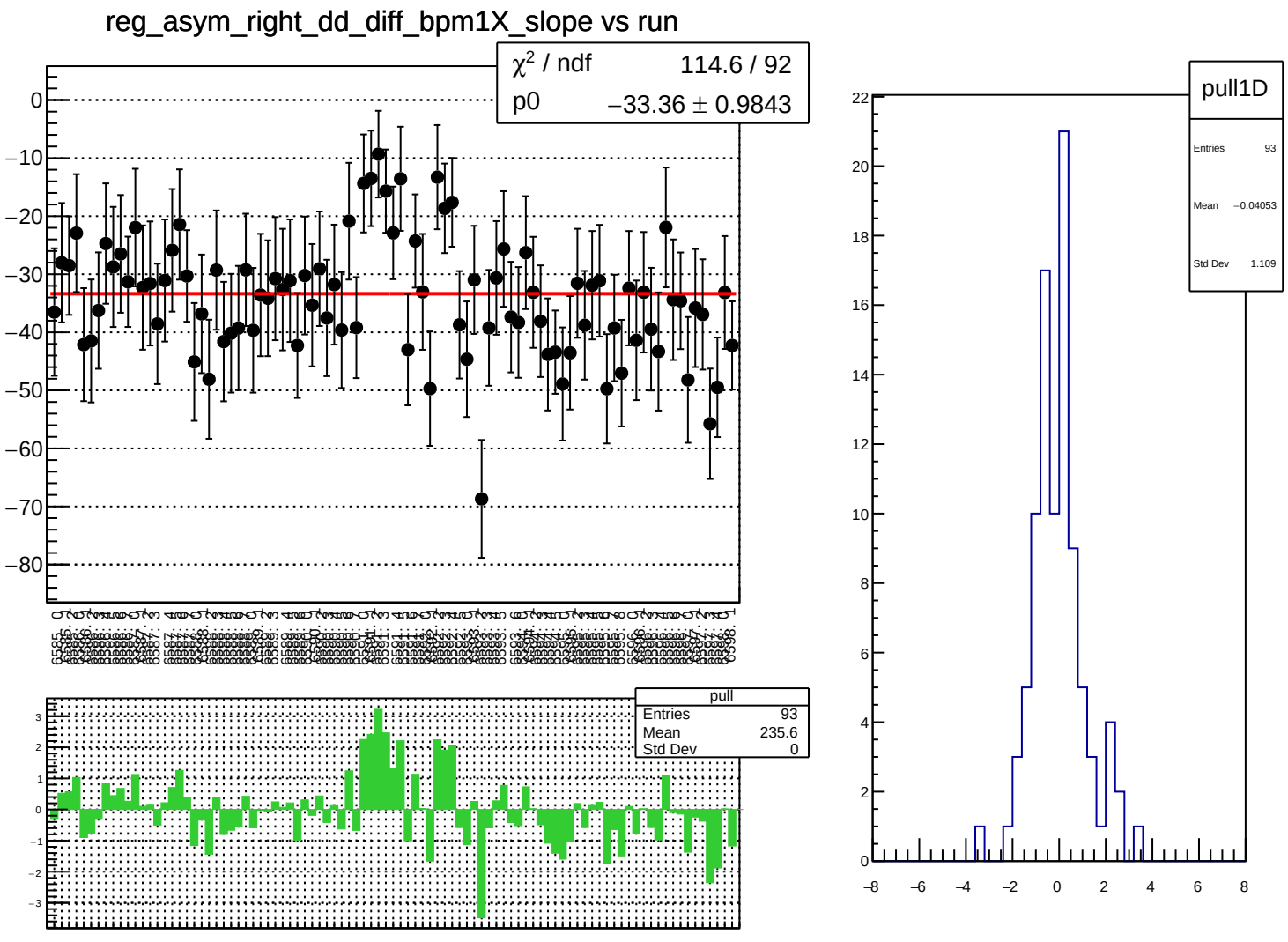

pull1D
Entries 93
Mean 0.04479
Std Dev 1.032

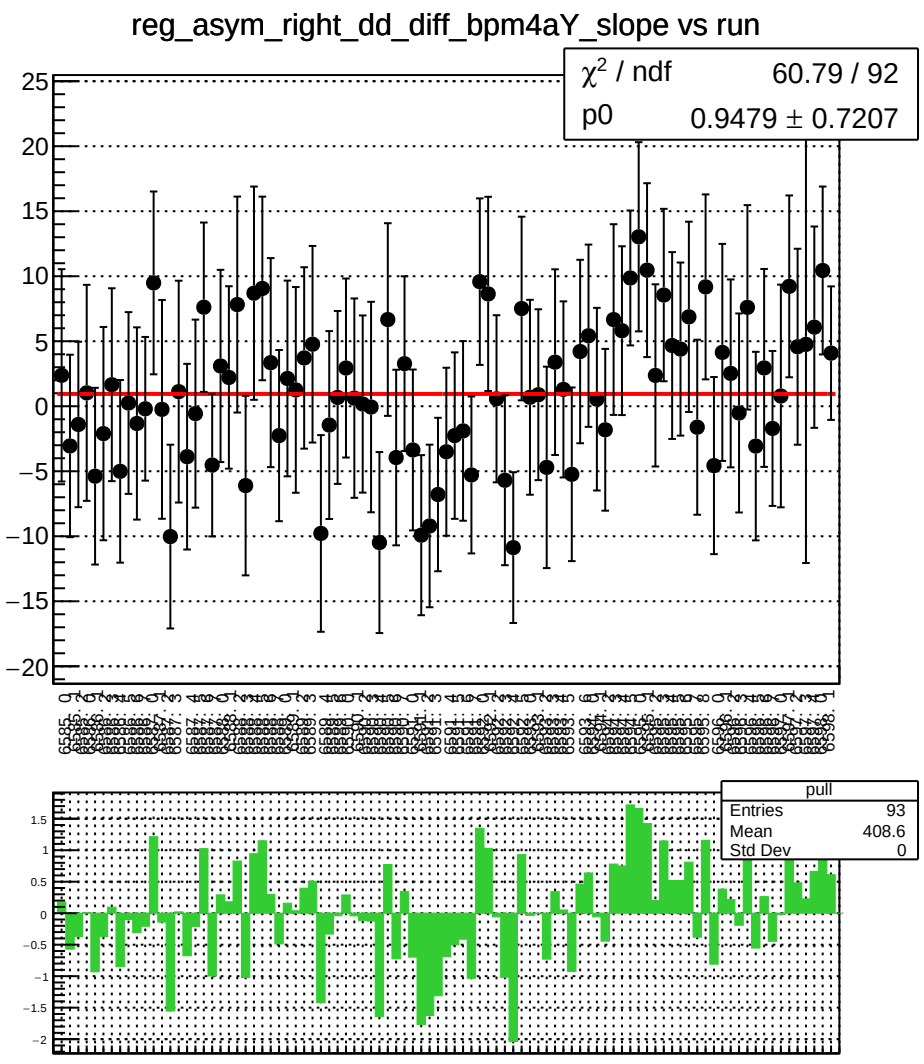

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.19 / 92
p0 12.9 ± 0.8551
pull
Entries 93
Mean 839.5
Std Dev 0

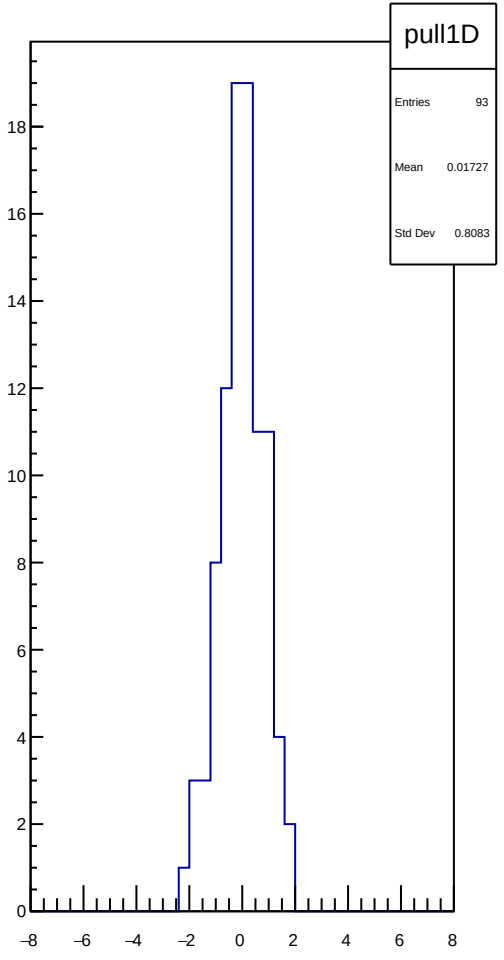

pull1D
Entries 93
Mean −0.008947
Std Dev 0.8436

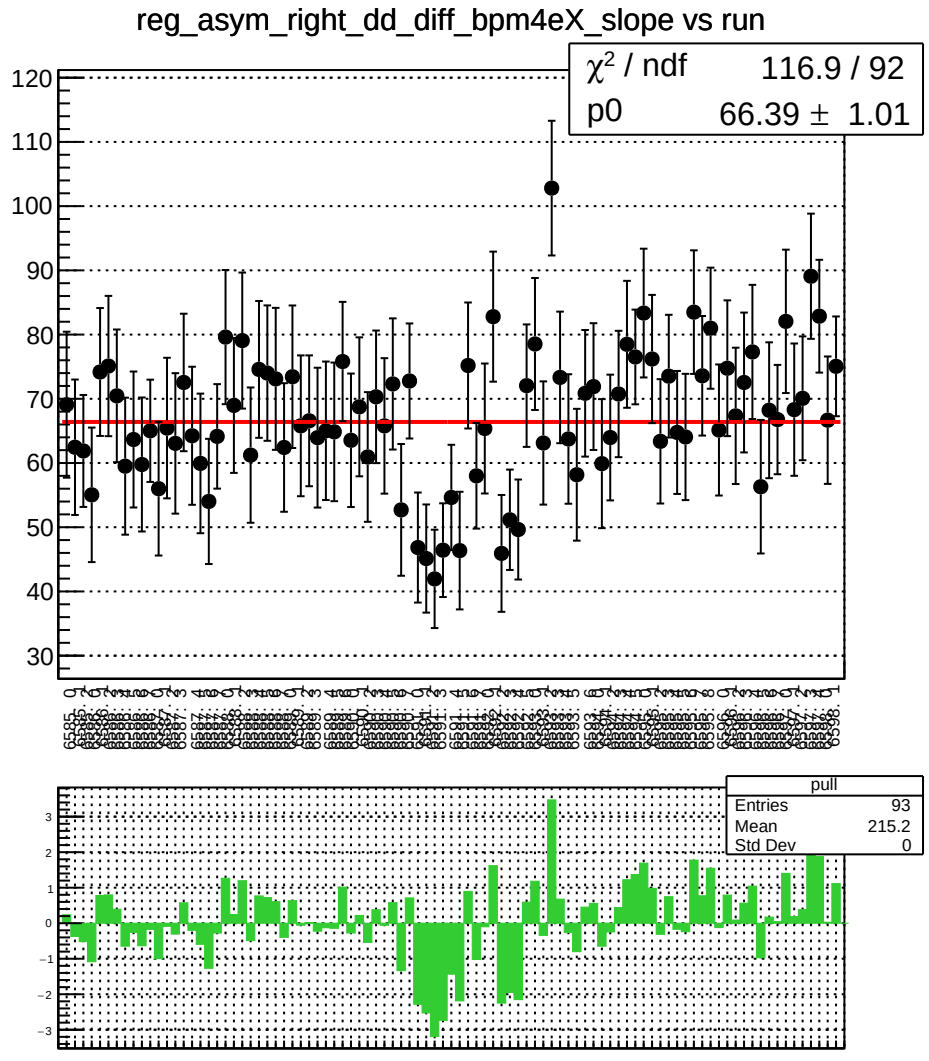

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 169.7 / 92
p0 −23.45 ± 0.04126
pull
Entries 93
Mean −96.67
Std Dev 0

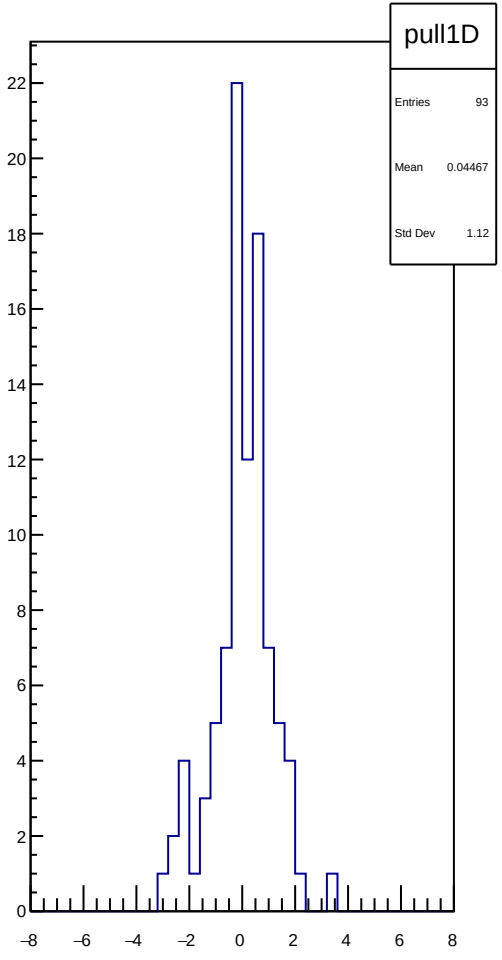

pull1D
Entries 93
Mean 0.07002
Std Dev 1.058

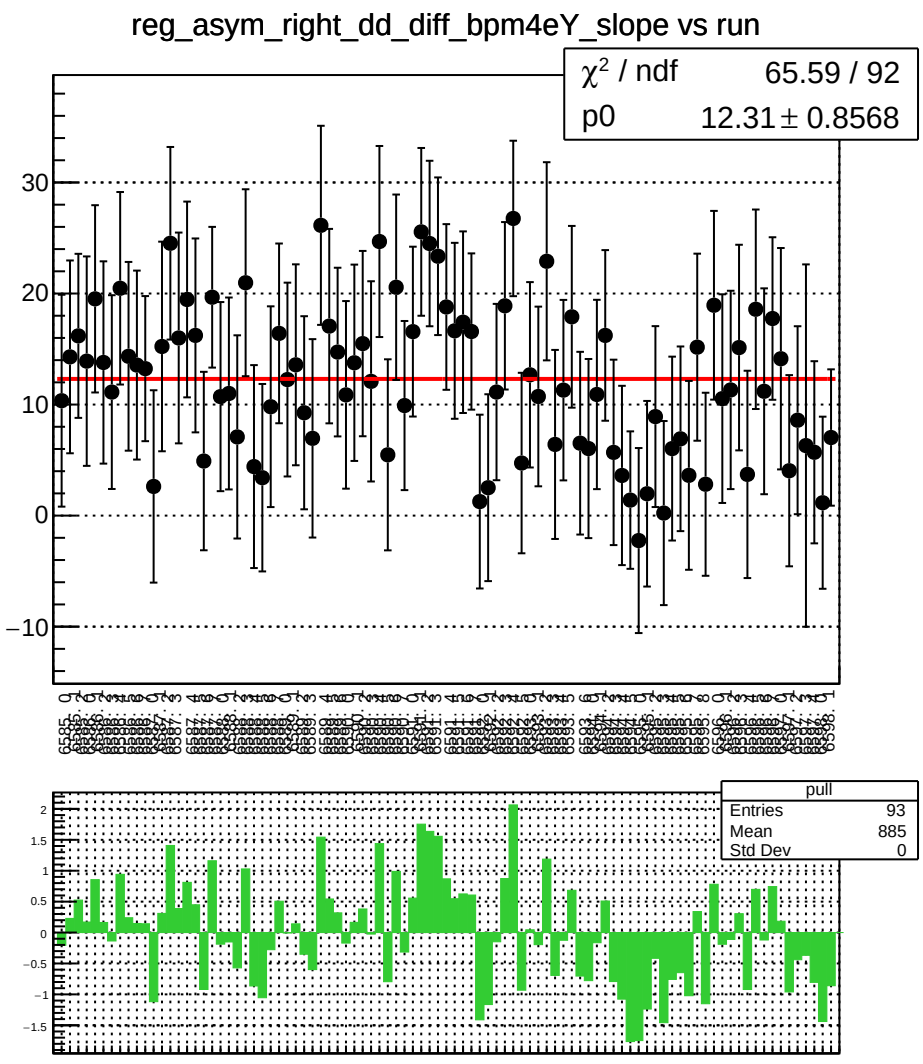

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 114.6 / 92
p0 −33.36 ± 0.9843
pull
Entries 93
Mean 235.6
Std Dev 0
pull1D
Entries 93
Mean −0.04053
Std Dev 1.109

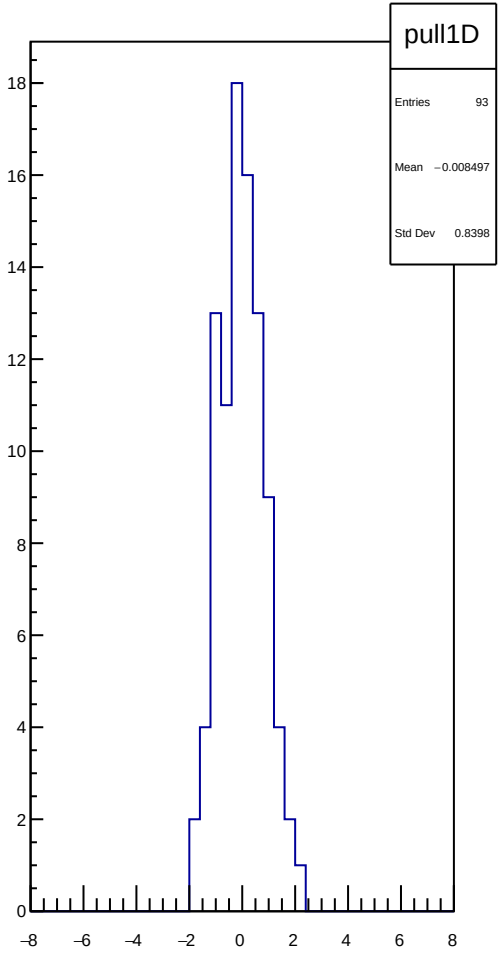

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.79 / 92
p0 0.9479 ± 0.7207
pull
Entries 93
Mean 408.6
Std Dev 0

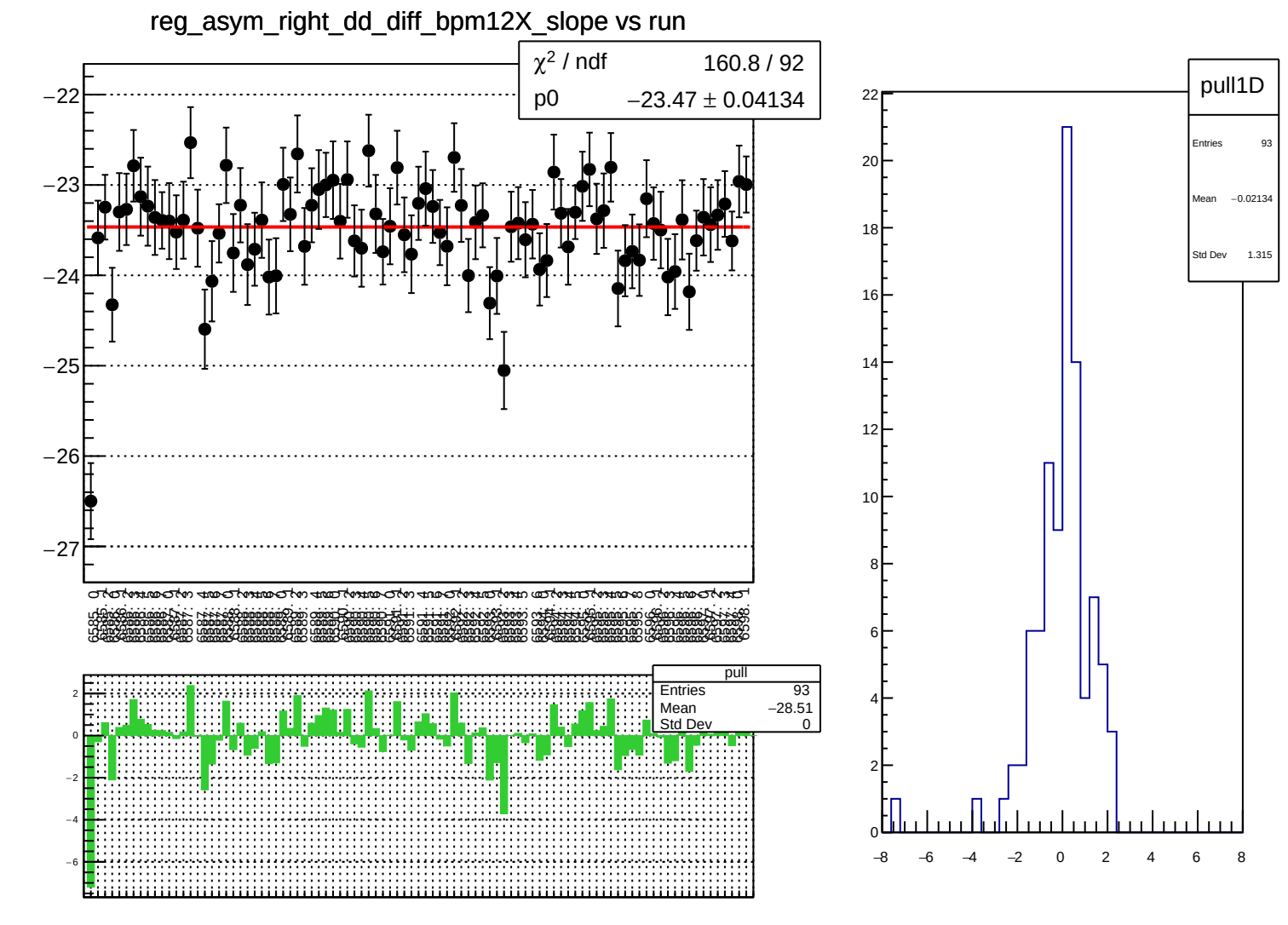

pull1D
Entries 93
Mean 0.01727
Std Dev 0.8083

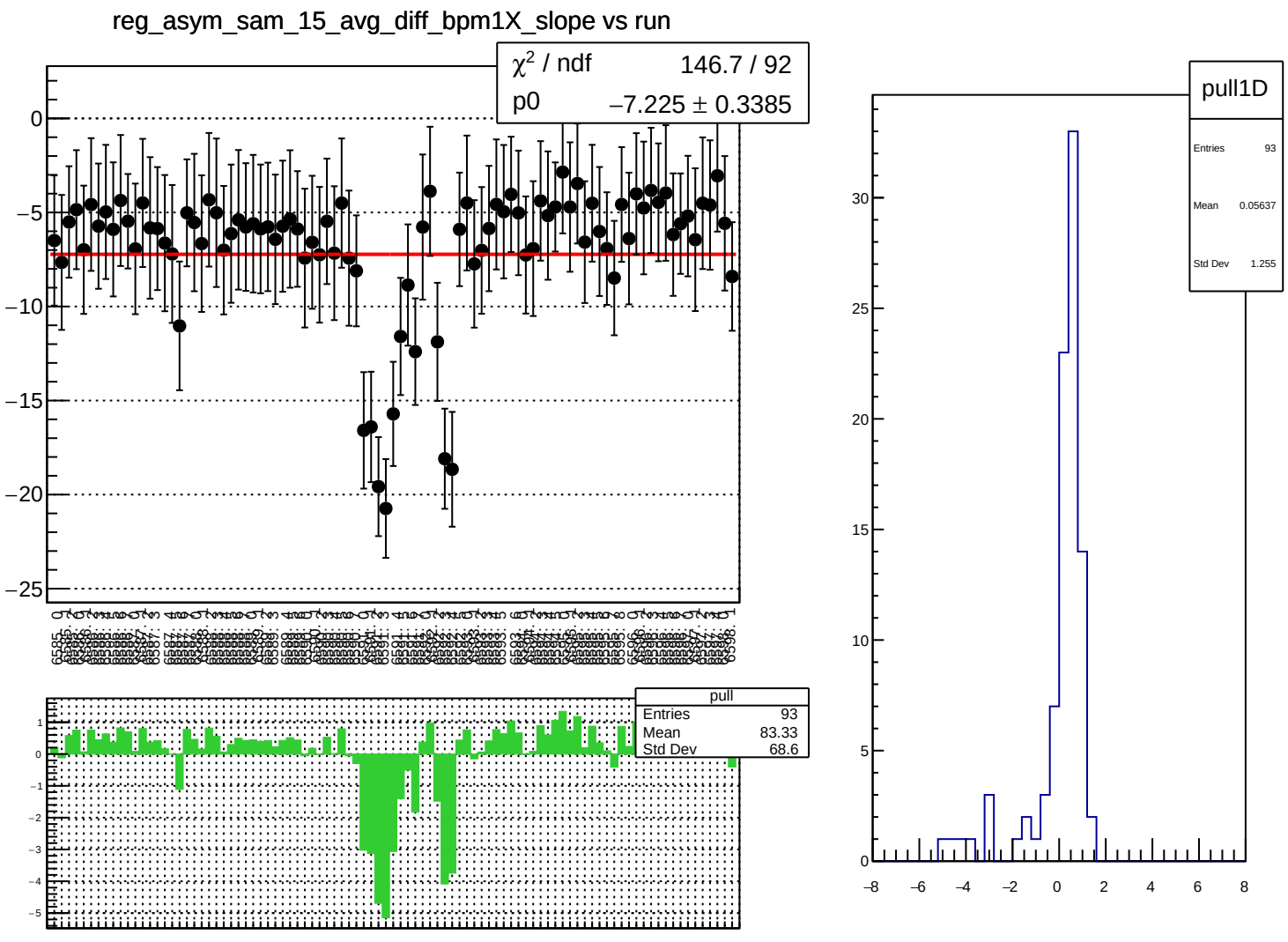

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 116.9 / 92
p0 66.39 ± 1.01
pull
Entries 93
Mean 215.2
Std Dev 0

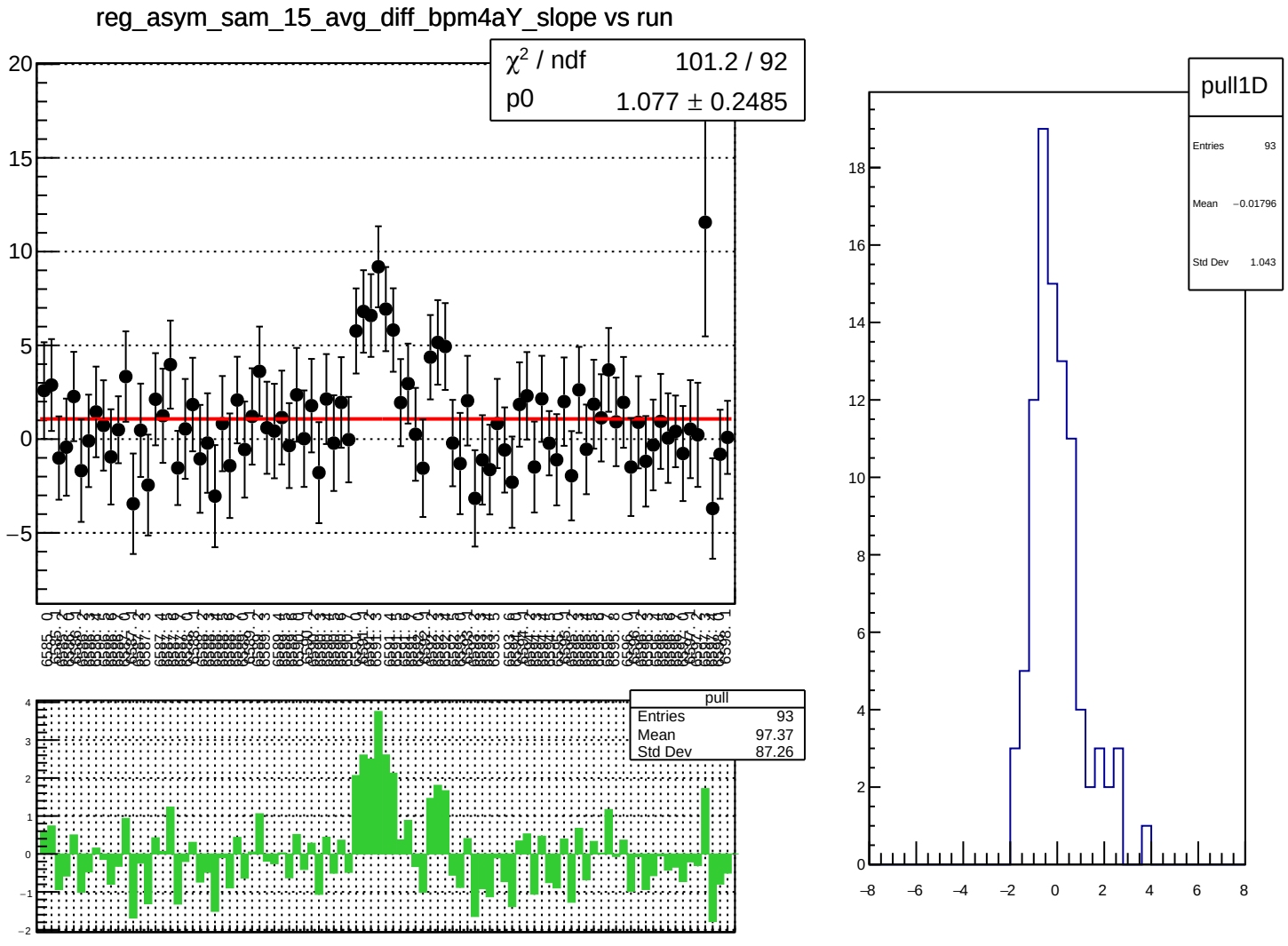

pull1D
Entries 93
Mean 0.04467
Std Dev 1.12

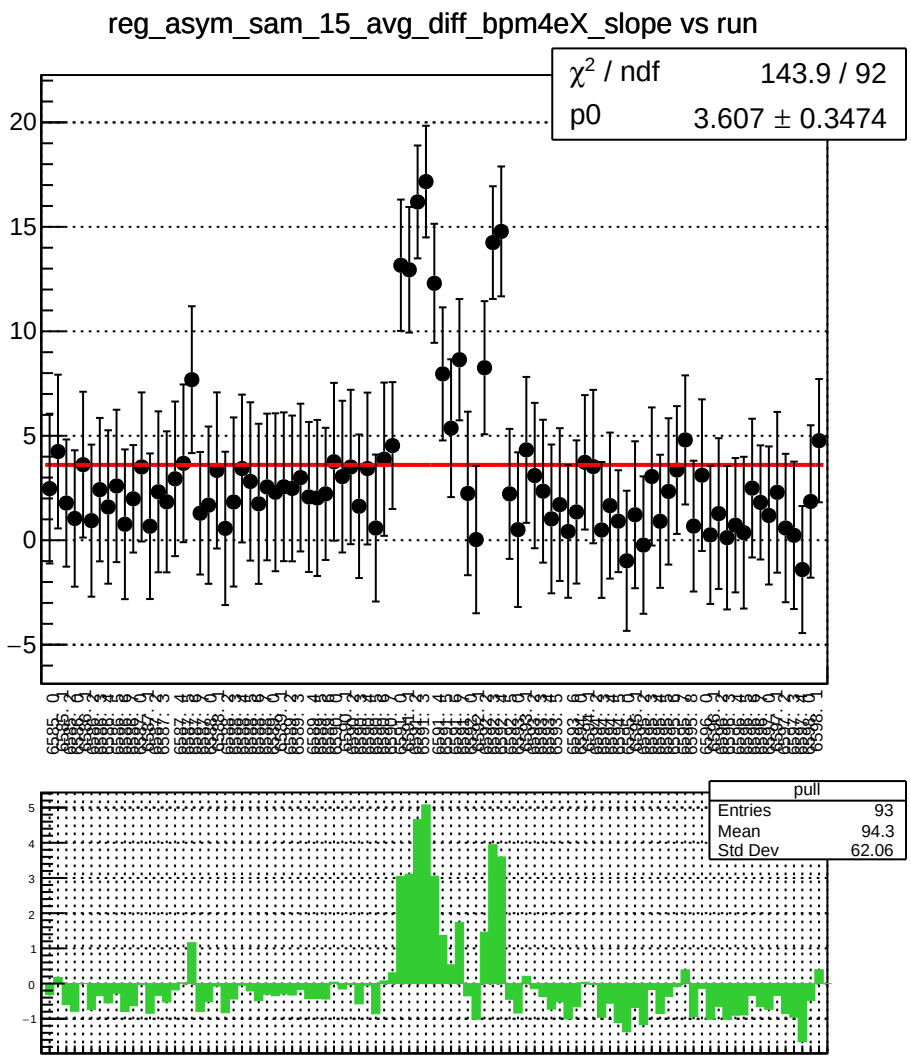

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.59 / 92
p0 12.31 ± 0.8568
pull
Entries 93
Mean 885
Std Dev 0

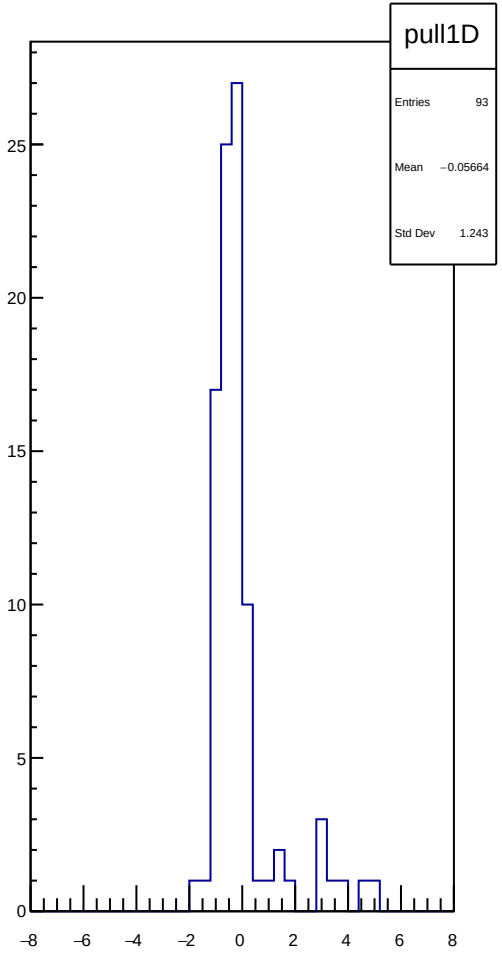

pull1D
Entries 93
Mean −0.008497
Std Dev 0.8398

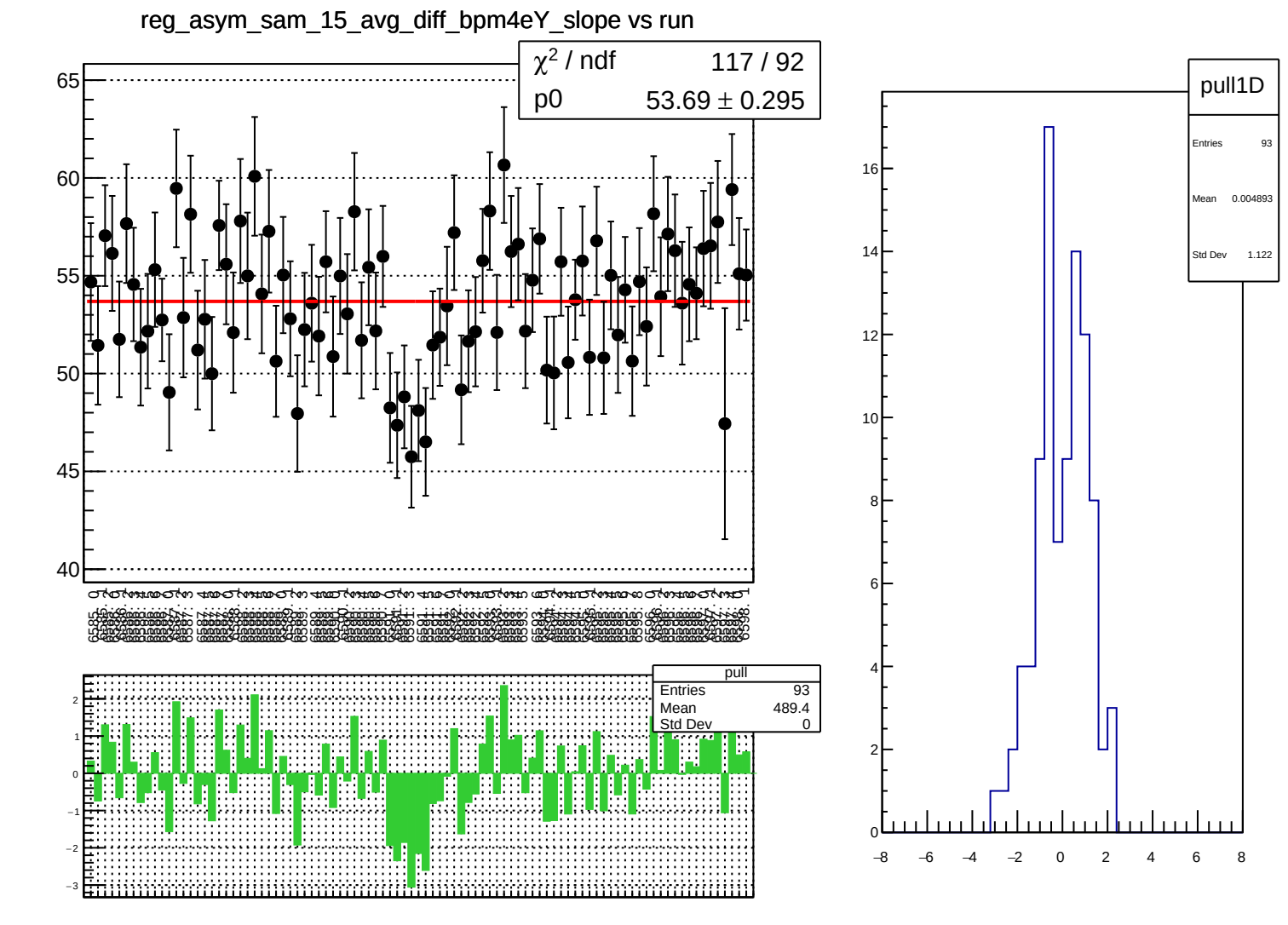

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 160.8 / 92
p0 −23.47 ± 0.04134
pull
Entries 93
Mean −28.51
Std Dev 0
pull1D
Entries 93
Mean −0.02134
Std Dev 1.315

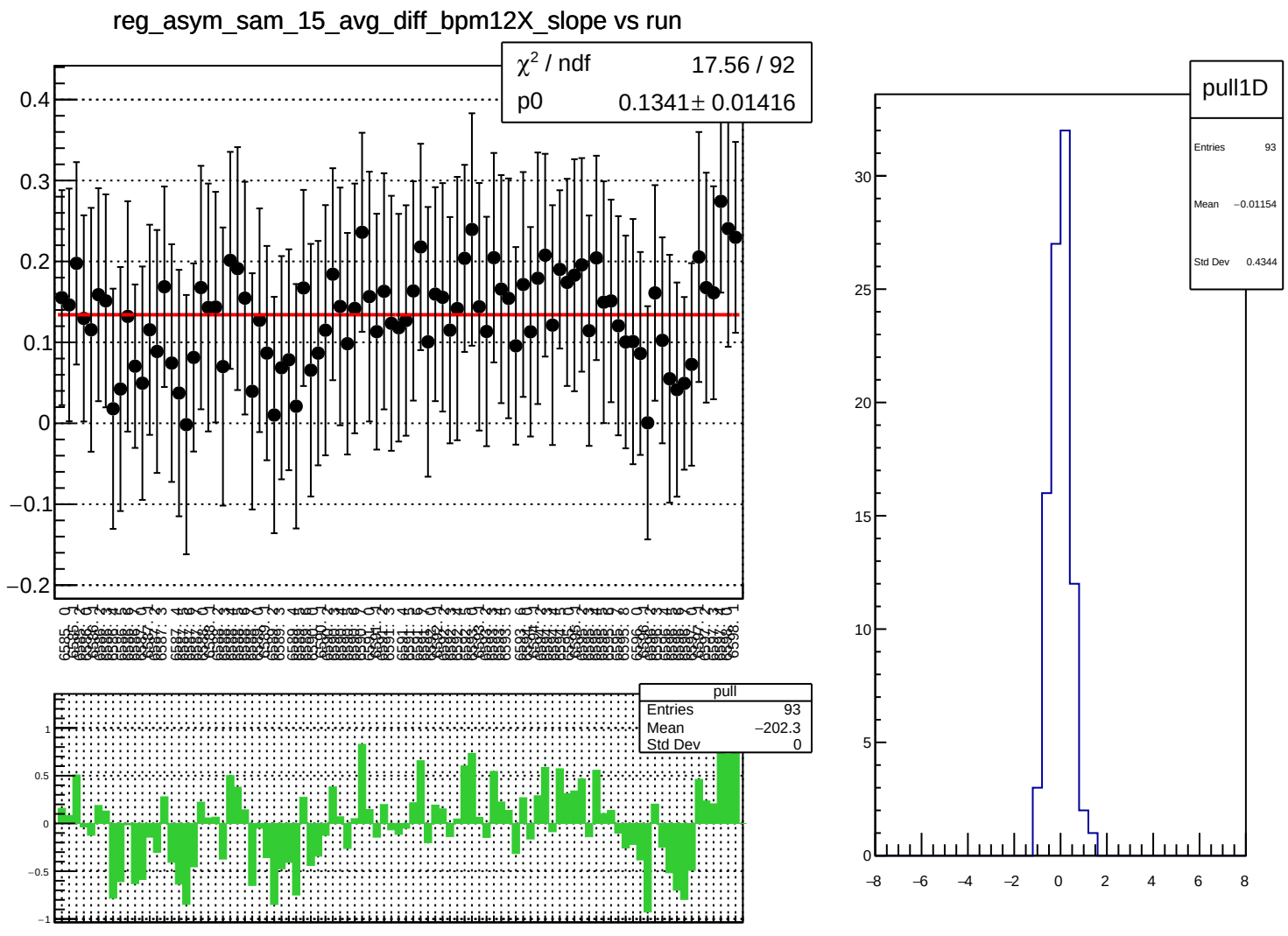

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 146.7 / 92
p0 −7.225 ± 0.3385
pull
Entries 93
Mean 83.33
Std Dev 68.6
pull1D
Entries 93
Mean 0.05637
Std Dev 1.255

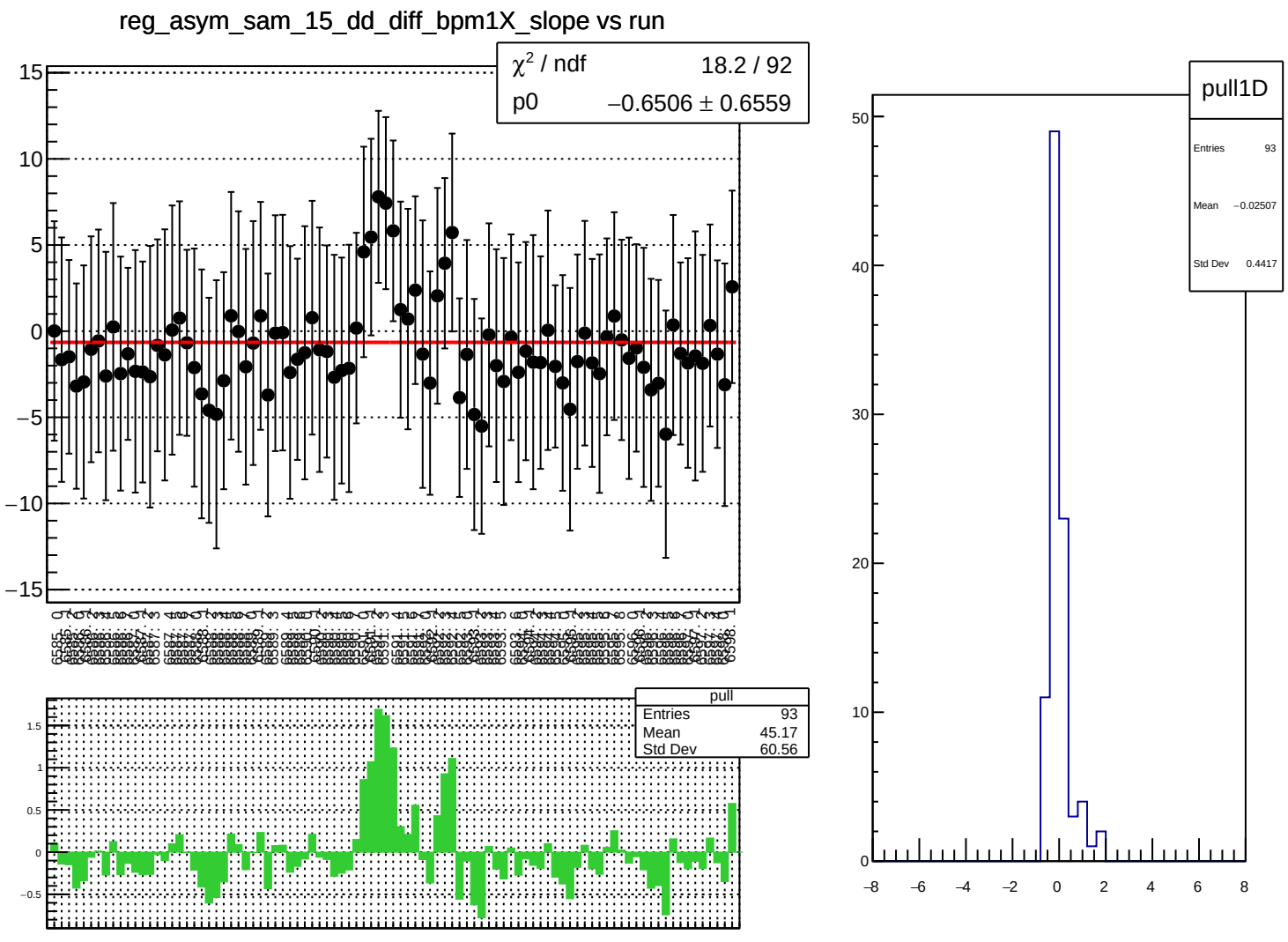

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 101.2 / 92
p0 1.077 ± 0.2485
pull
Entries 93
Mean 97.37
Std Dev 87.26
pull1D
Entries 93
Mean −0.01796
Std Dev 1.043

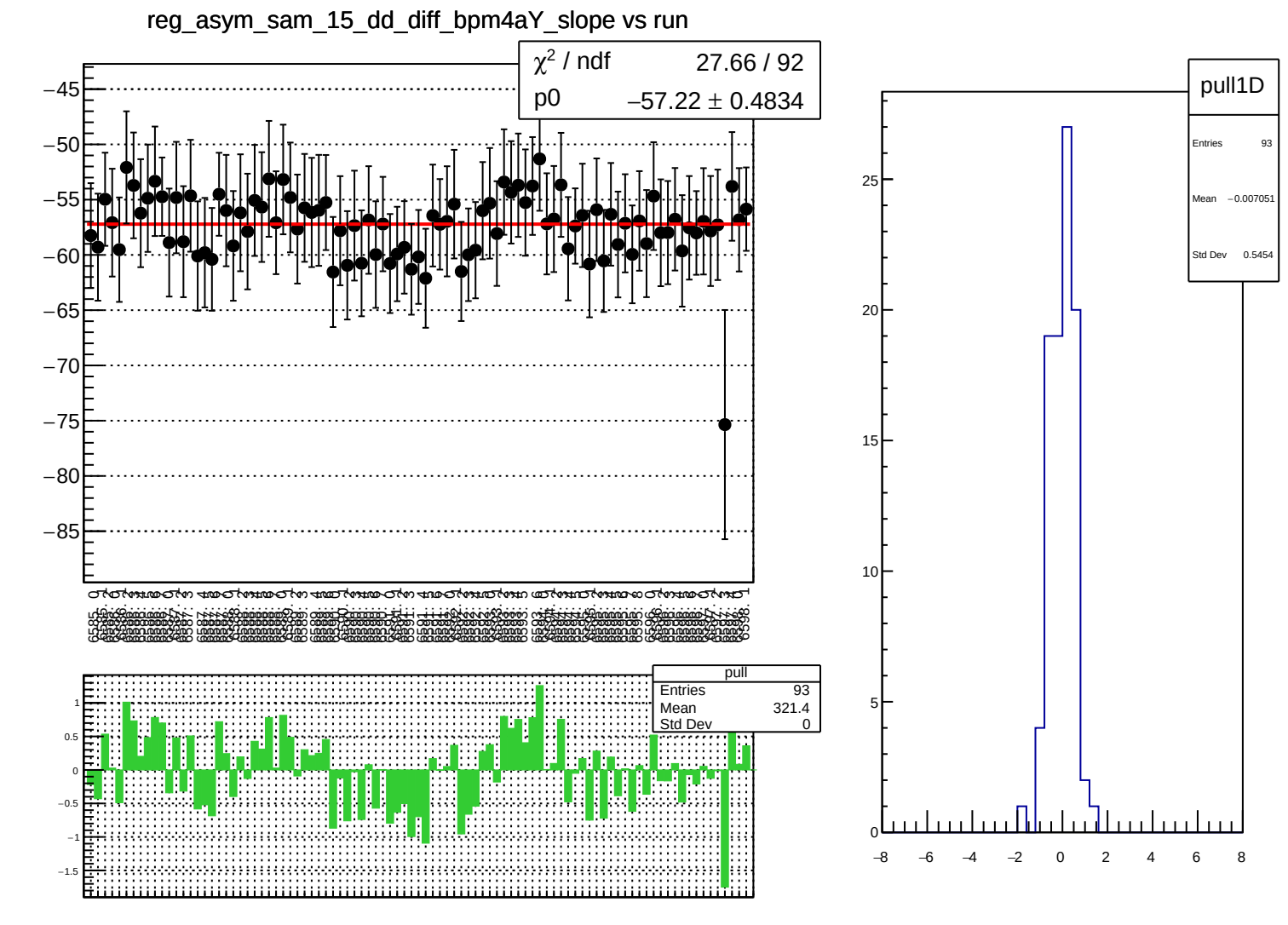

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 143.9 / 92
p0 3.607 ± 0.3474
pull
Entries 93
Mean 94.3
Std Dev 62.06

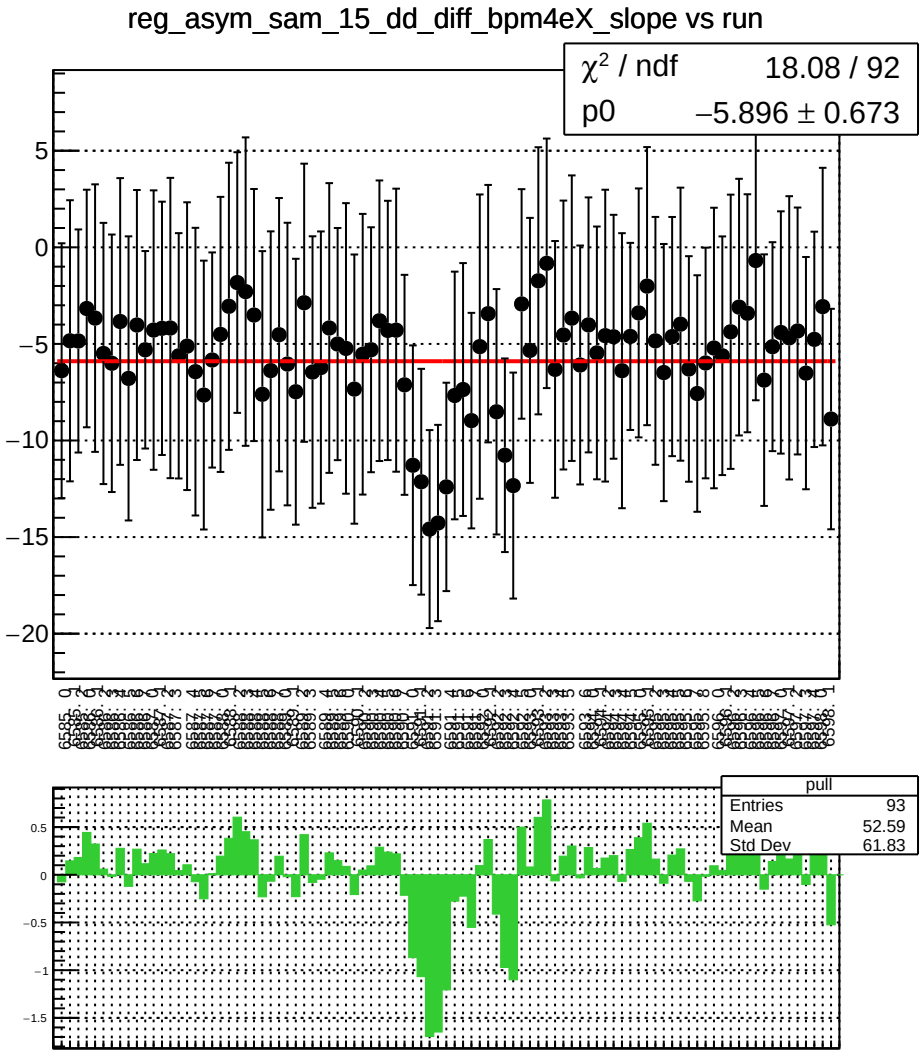

pull1D
Entries 93
Mean −0.05664
Std Dev 1.243

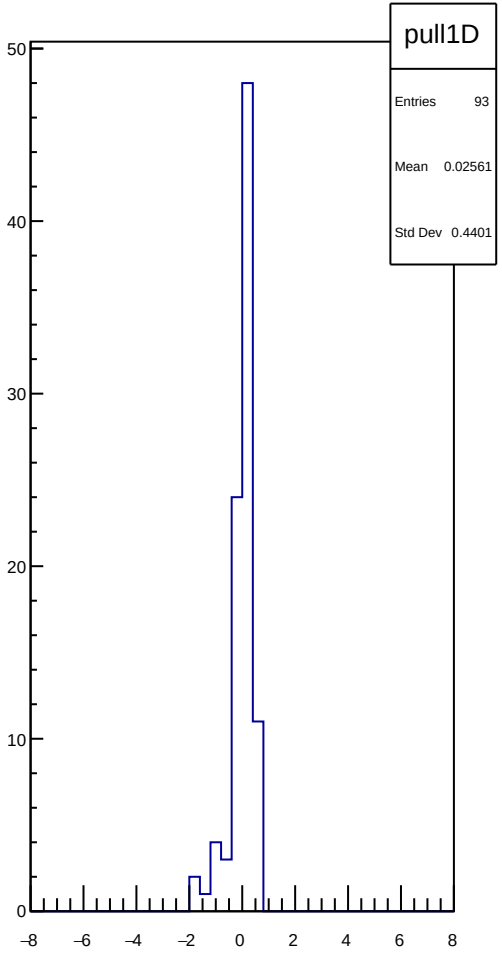

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 117 / 92
p0 53.69 ± 0.295
pull
Entries 93
Mean 489.4
Std Dev 0
pull1D
Entries 93
Mean 0.004893
Std Dev 1.122

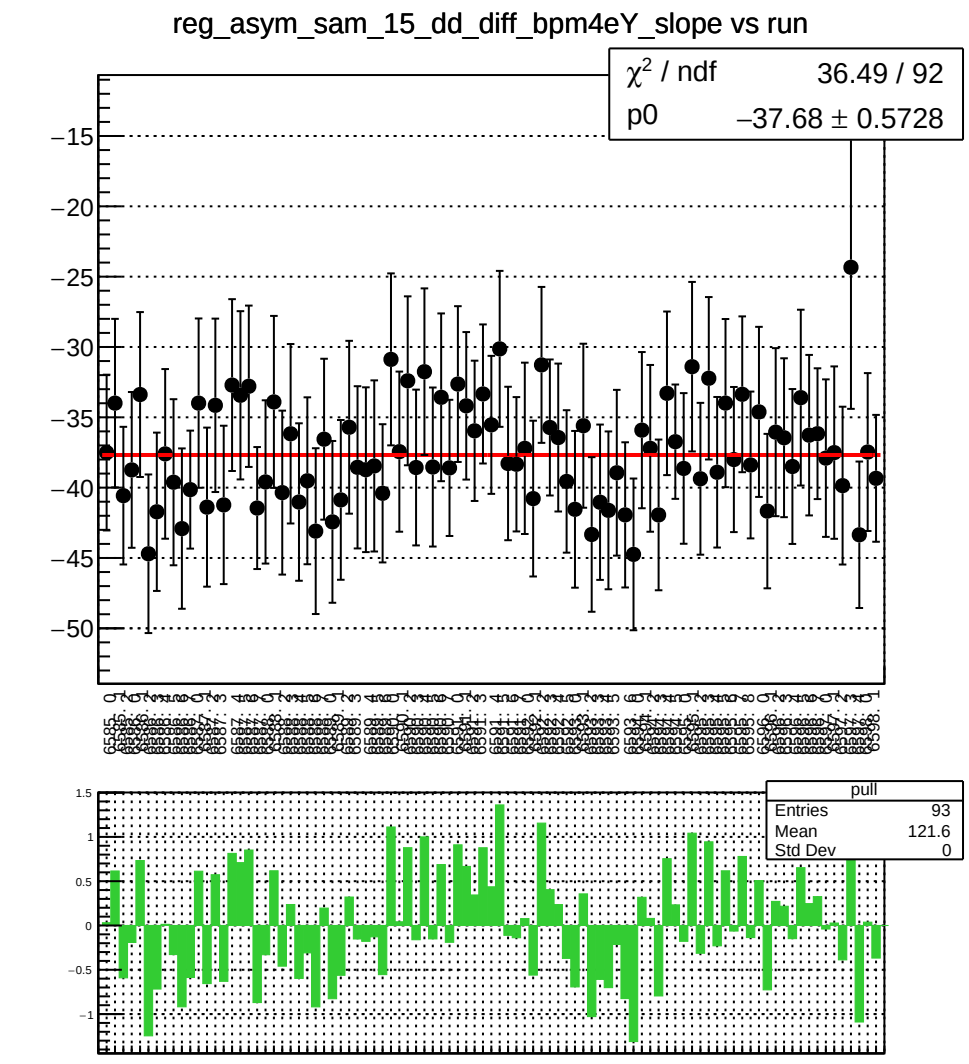

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 17.56 / 92
p0 0.1341± 0.01416
pull
Entries 93
Mean −202.3
Std Dev 0
pull1D
Entries 93
Mean −0.01154
Std Dev 0.4344

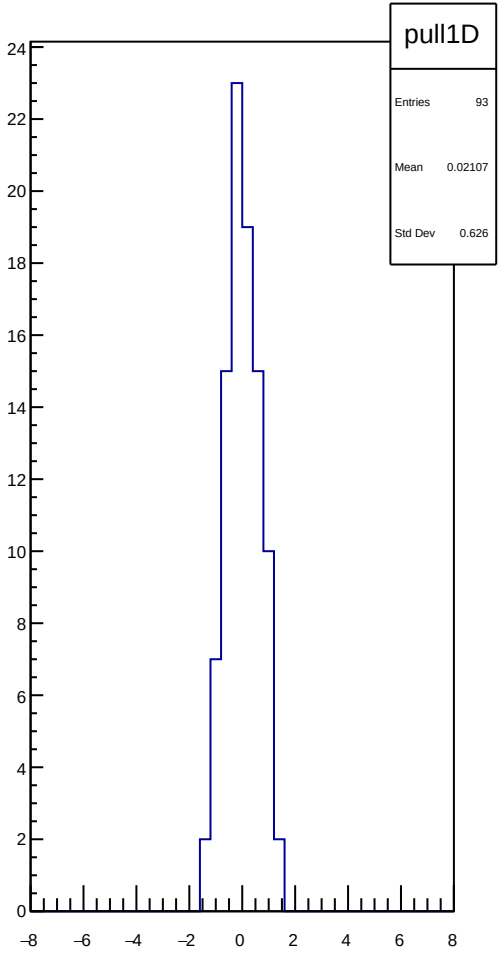

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 18.2 / 92
p0 −0.6506 ± 0.6559
pull
Entries 93
Mean 45.17
Std Dev 60.56
pull1D
Entries 93
Mean −0.02507
Std Dev 0.4417

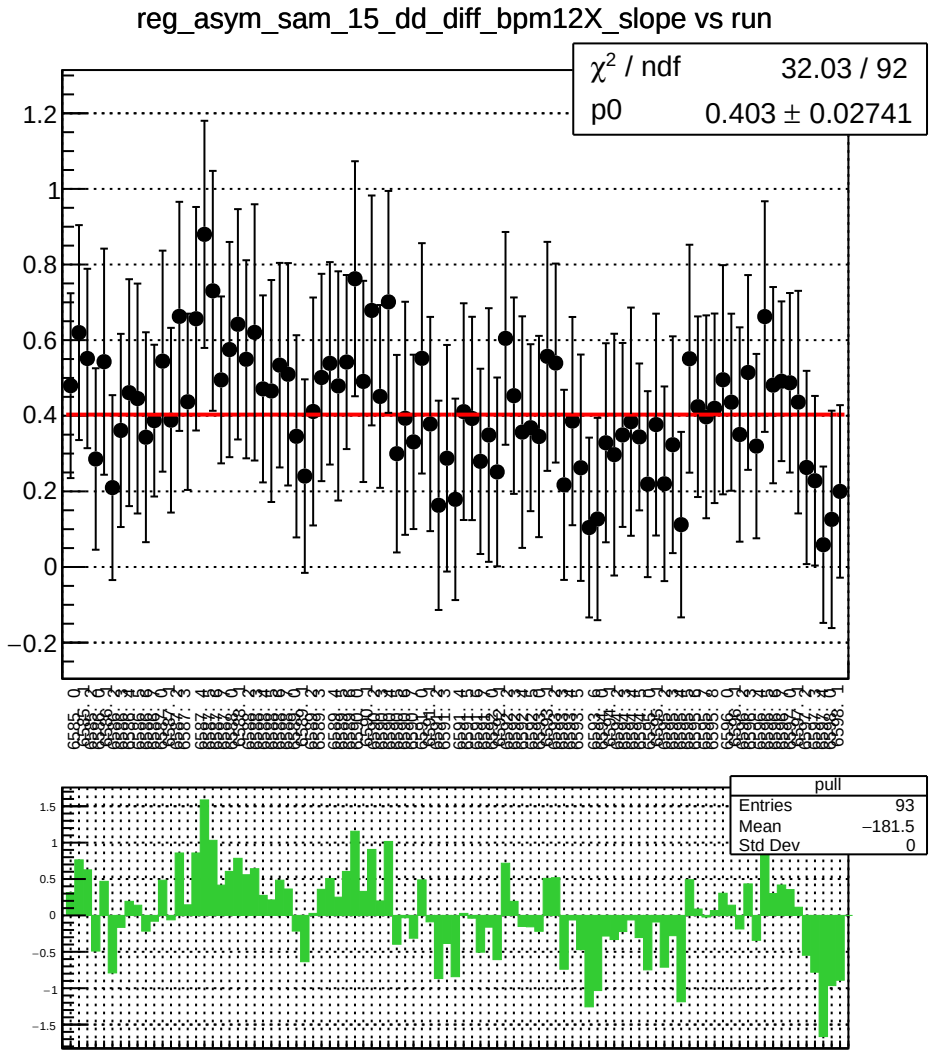

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.66 / 92
p0 −57.22 ± 0.4834
pull
Entries 93
Mean 321.4
Std Dev 0
pull1D
Entries 93
Mean −0.007051
Std Dev 0.5454

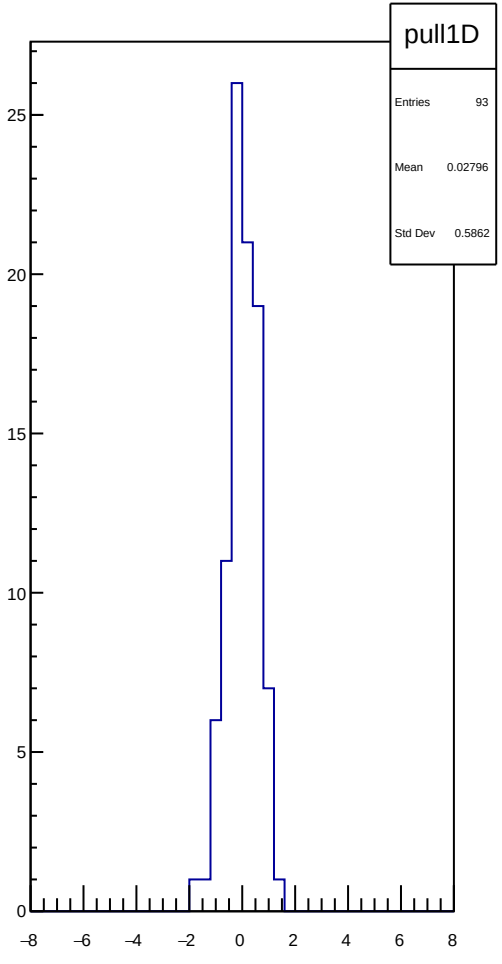

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.08 / 92
p0 −5.896 ± 0.673
pull
Entries 93
Mean 52.59
Std Dev 61.83

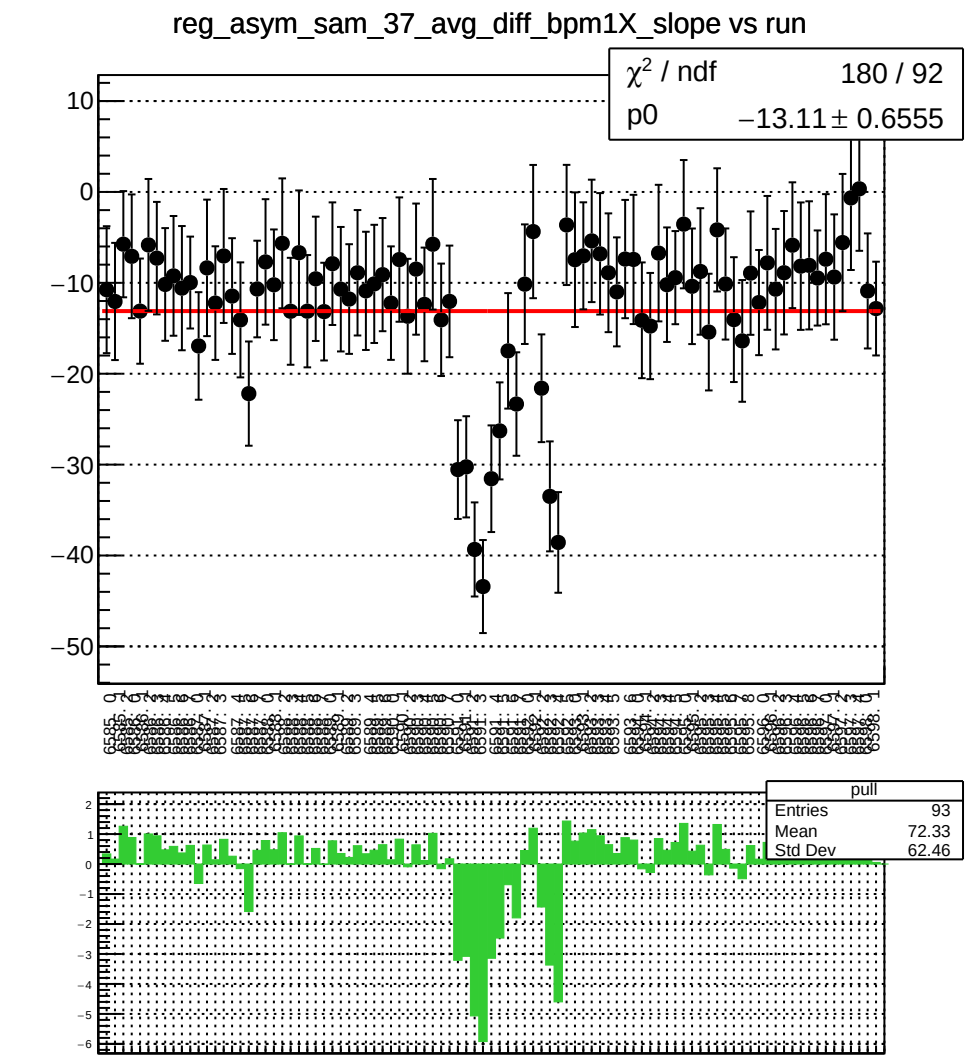

pull1D
Entries 93
Mean 0.02561
Std Dev 0.4401

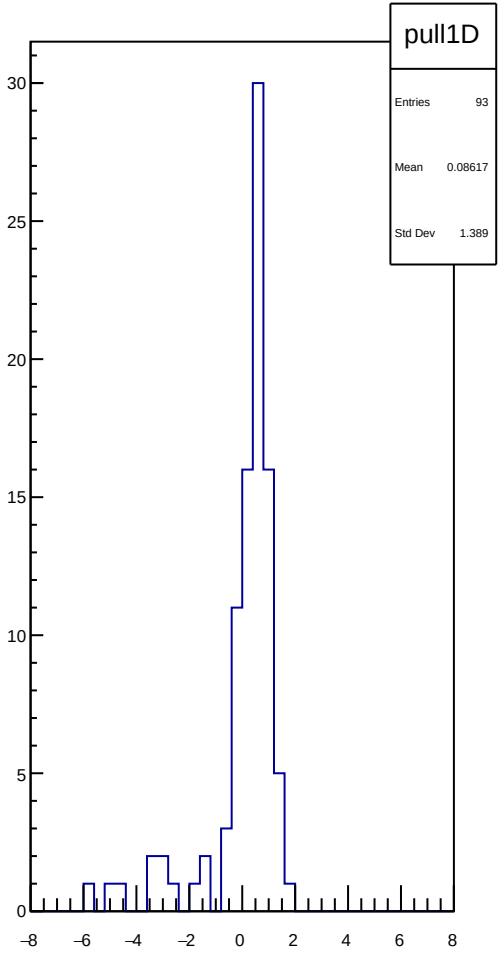

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.49 / 92
p0 −37.68 ± 0.5728
pull
Entries 93
Mean 121.6
Std Dev 0

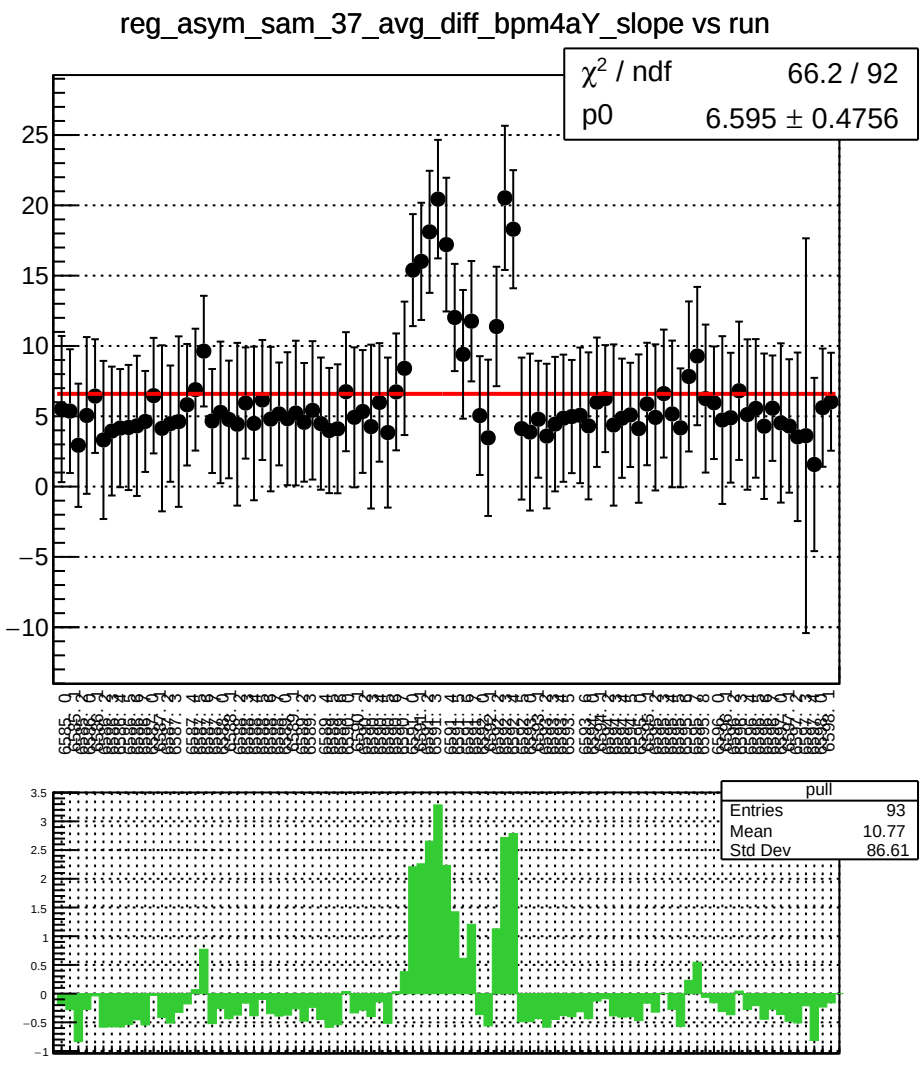

pull1D
Entries 93
Mean 0.02107
Std Dev 0.626

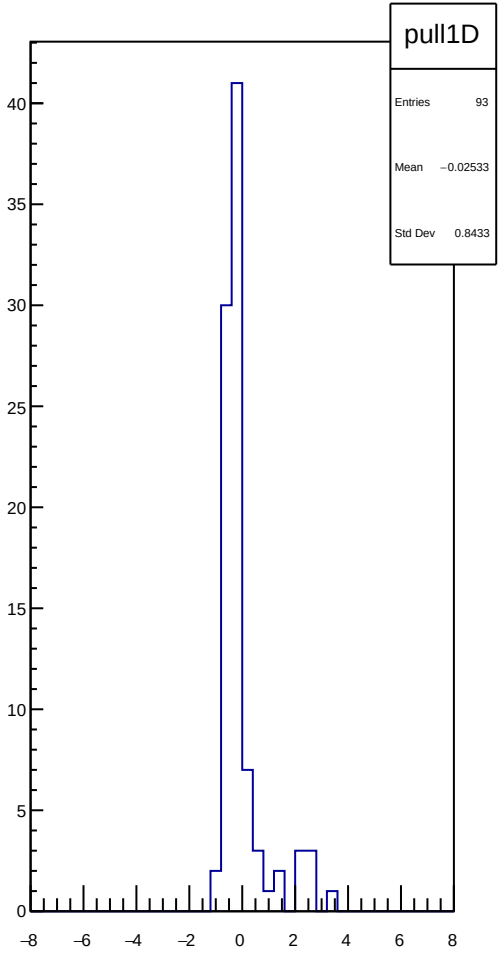

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 32.03 / 92
p0 0.403 ± 0.02741
pull
Entries 93
Mean −181.5
Std Dev 0

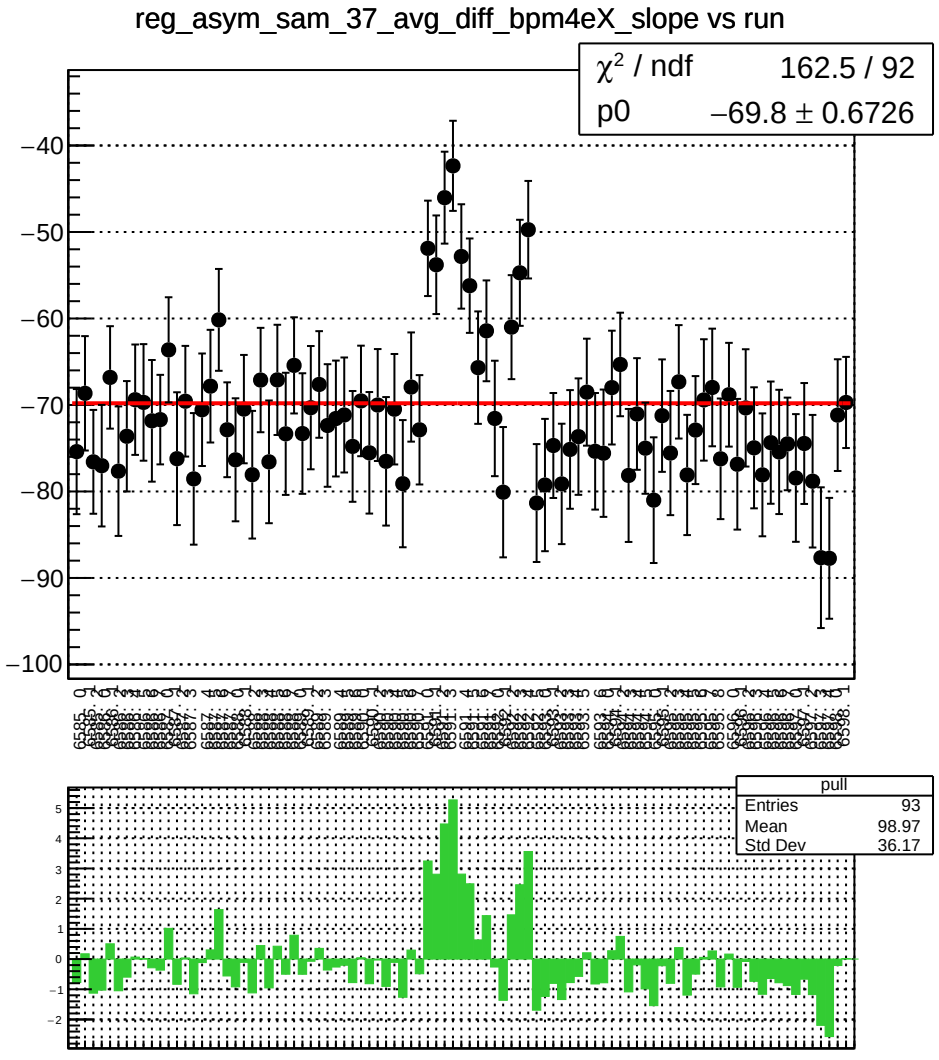

pull1D
Entries 93
Mean 0.02796
Std Dev 0.5862

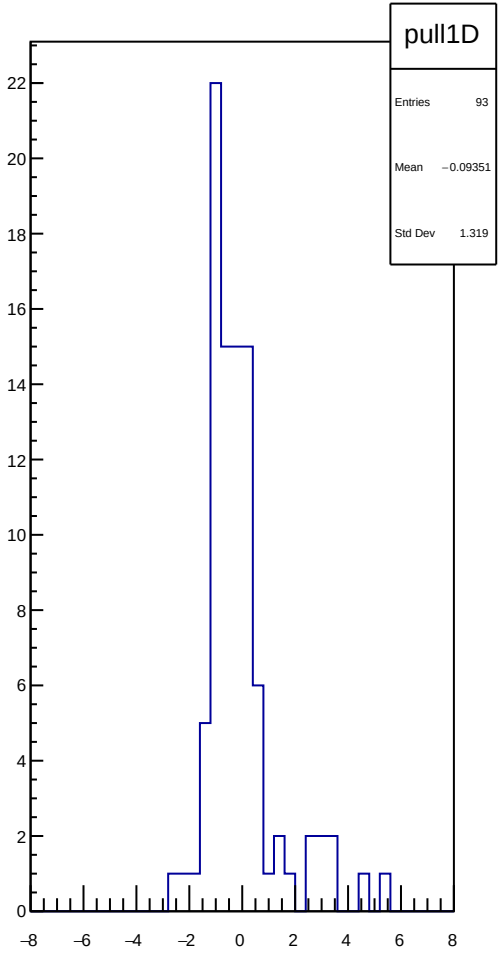

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 180 / 92
p0 −13.11 ± 0.6555
pull
Entries 93
Mean 72.33
Std Dev 62.46

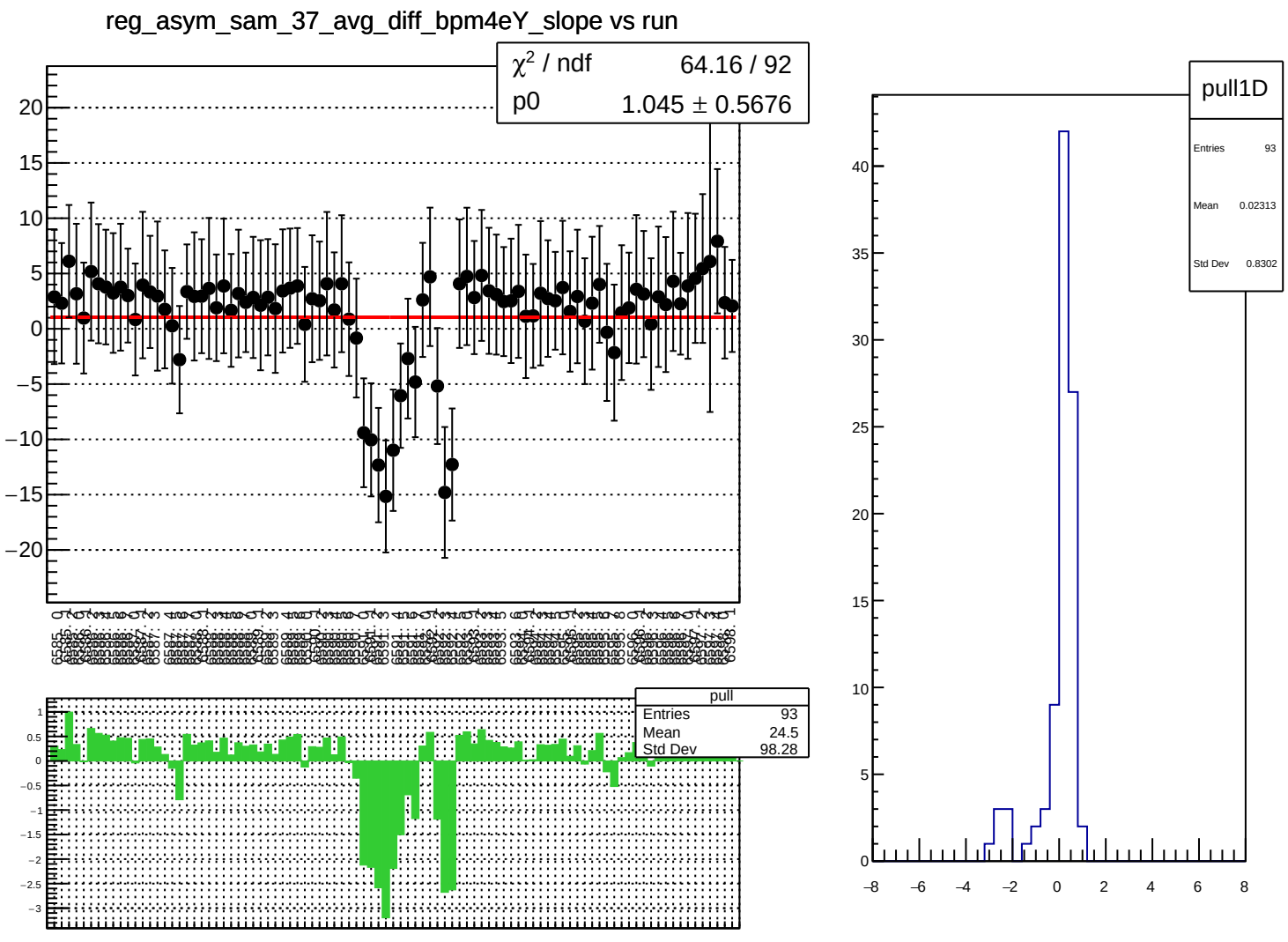

pull1D
Entries 93
Mean 0.08617
Std Dev 1.389

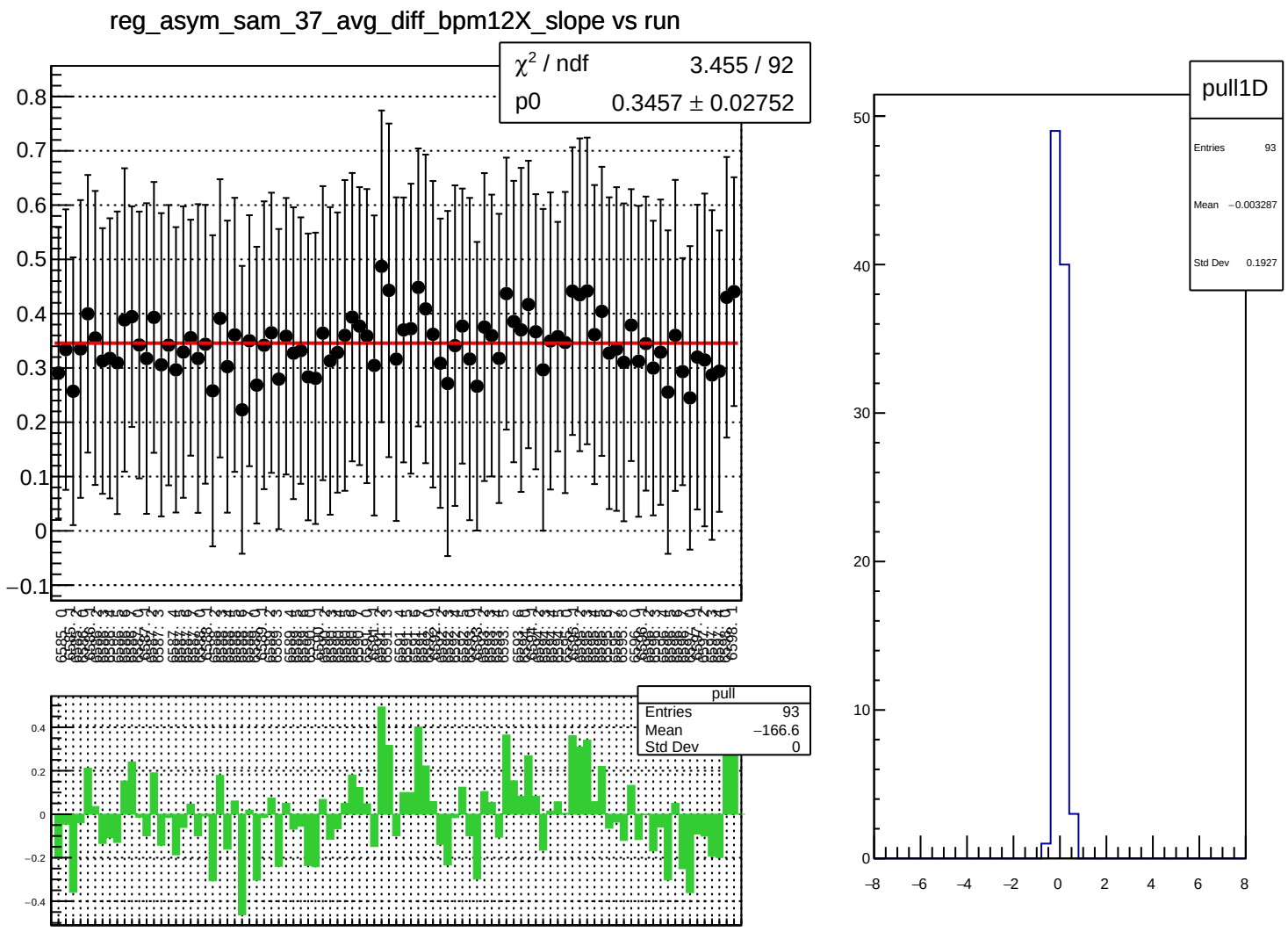

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 66.2 / 92
p0 6.595 ± 0.4756
pull
Entries 93
Mean 10.77
Std Dev 86.61

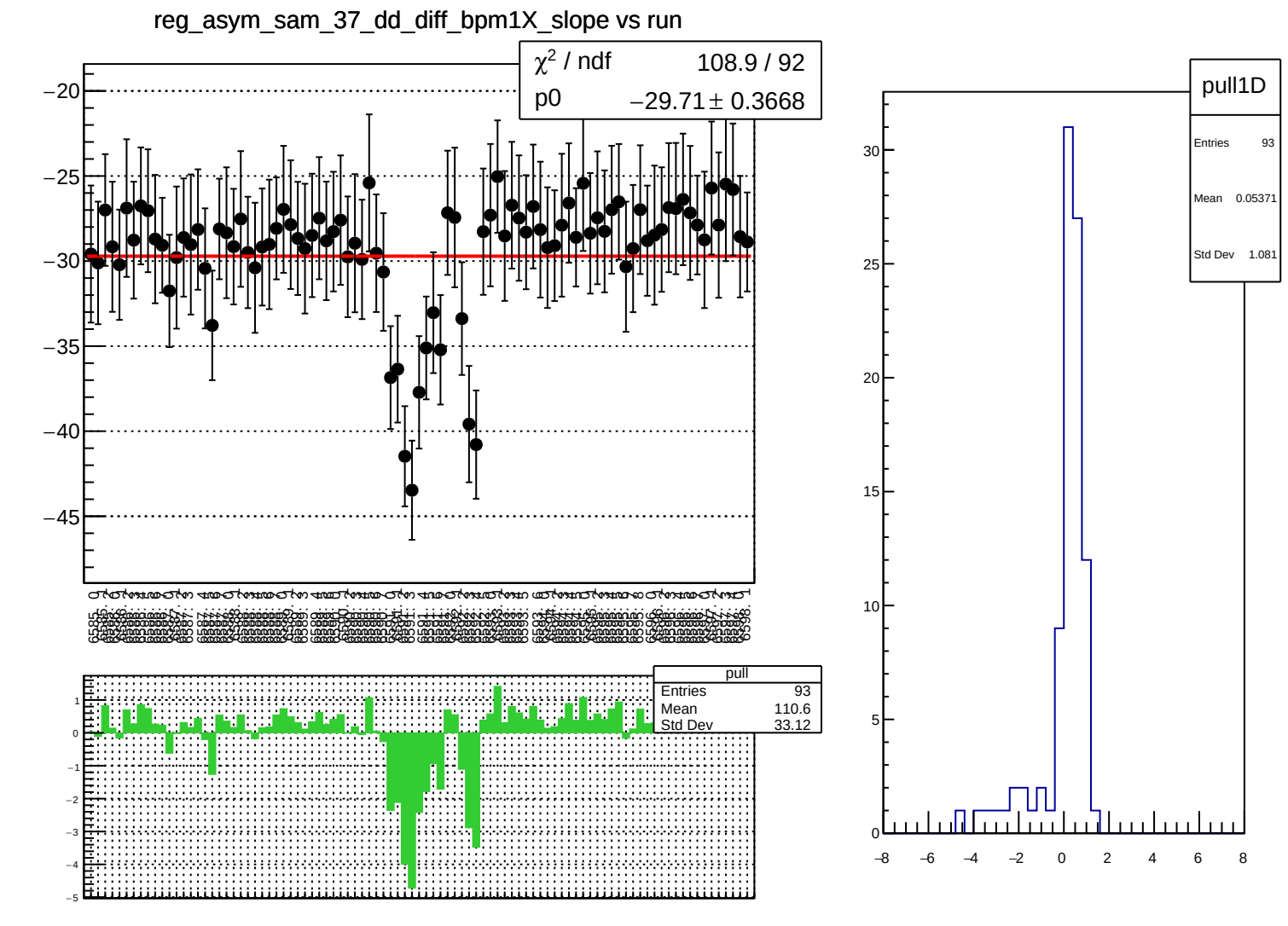

pull1D
Entries 93
Mean −0.02533
Std Dev 0.8433

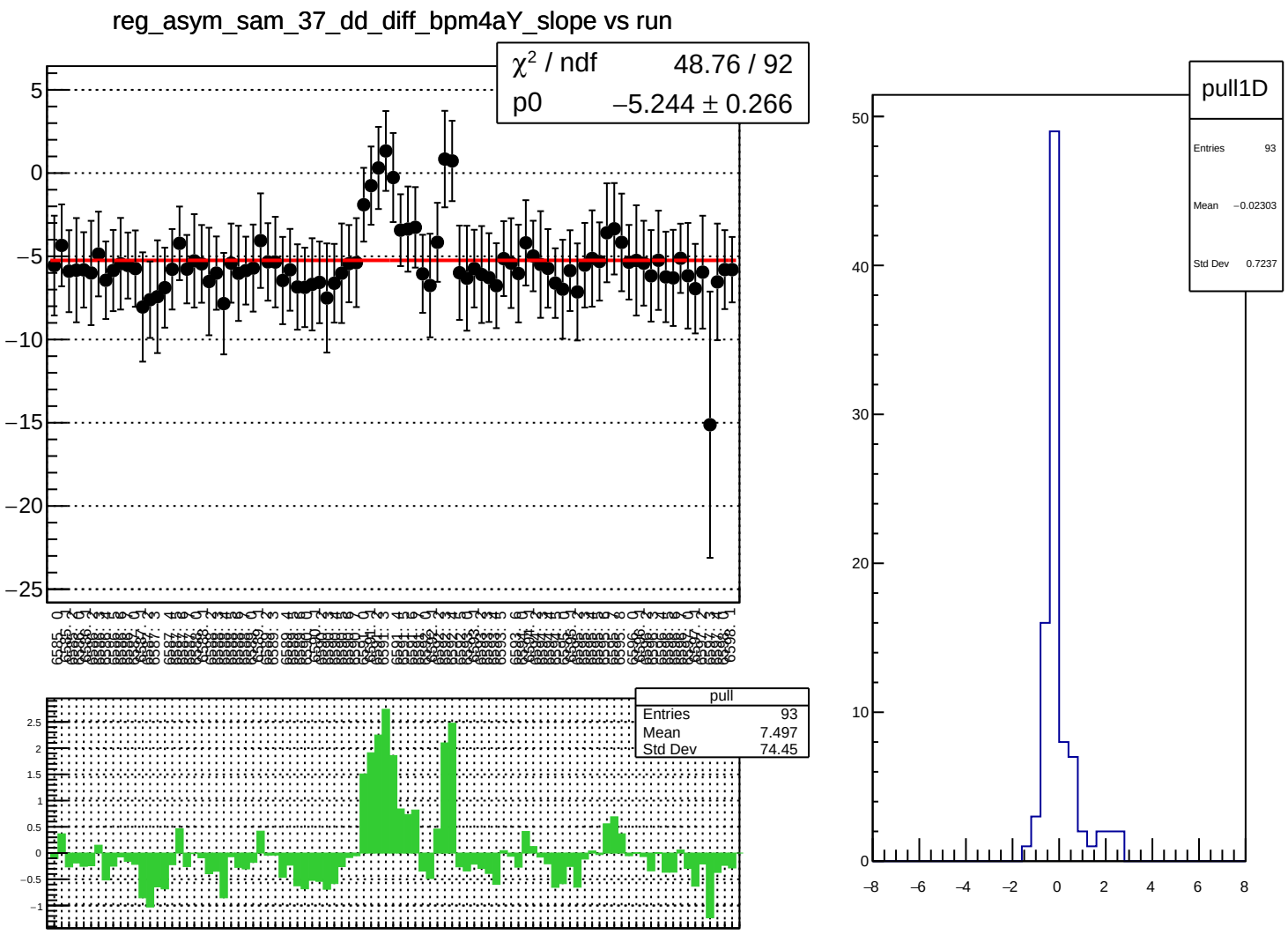

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 162.5 / 92
p0 −69.8 ± 0.6726
pull
Entries 93
Mean 98.97
Std Dev 36.17

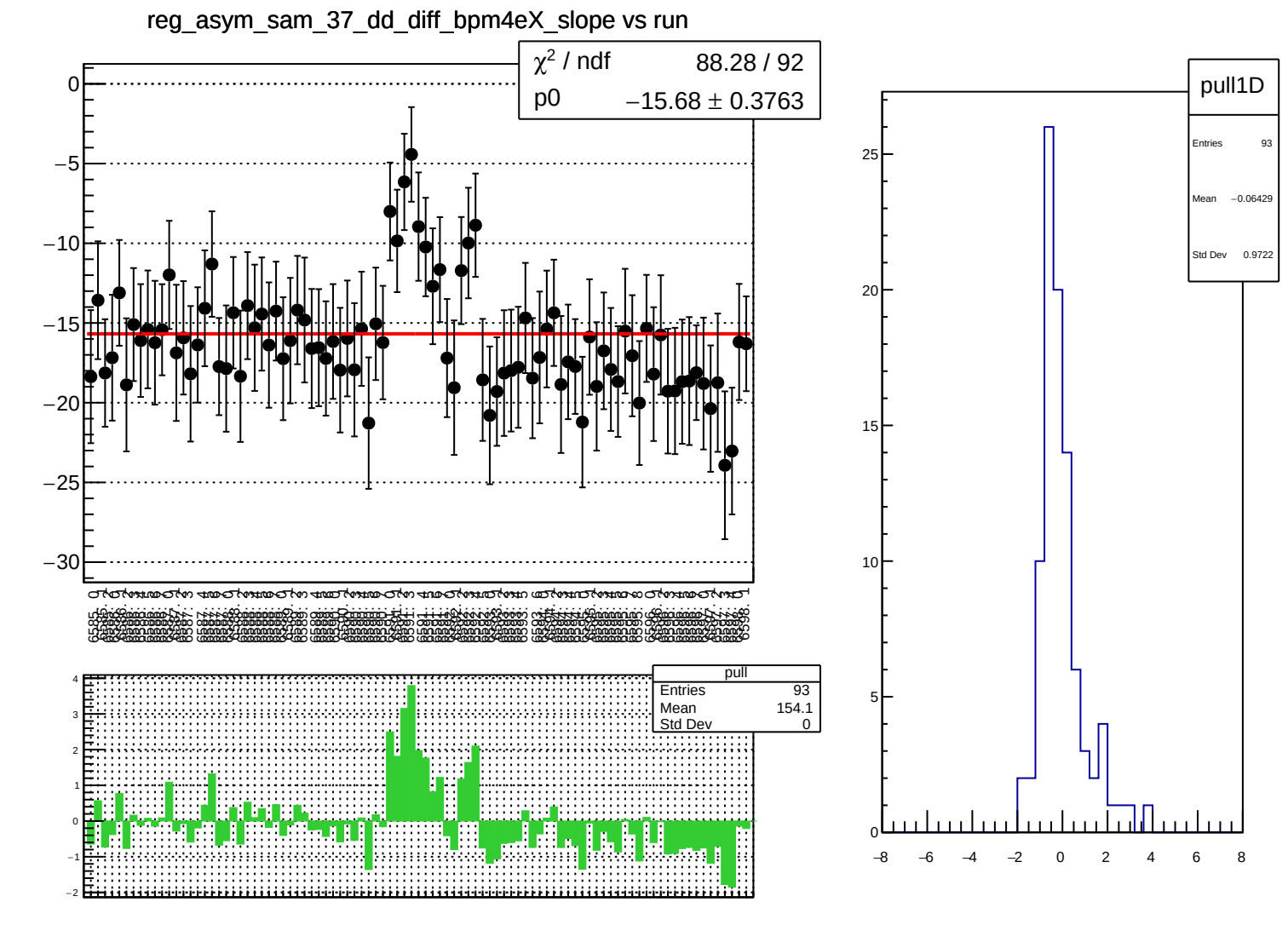

pull1D
Entries 93
Mean −0.09351
Std Dev 1.319

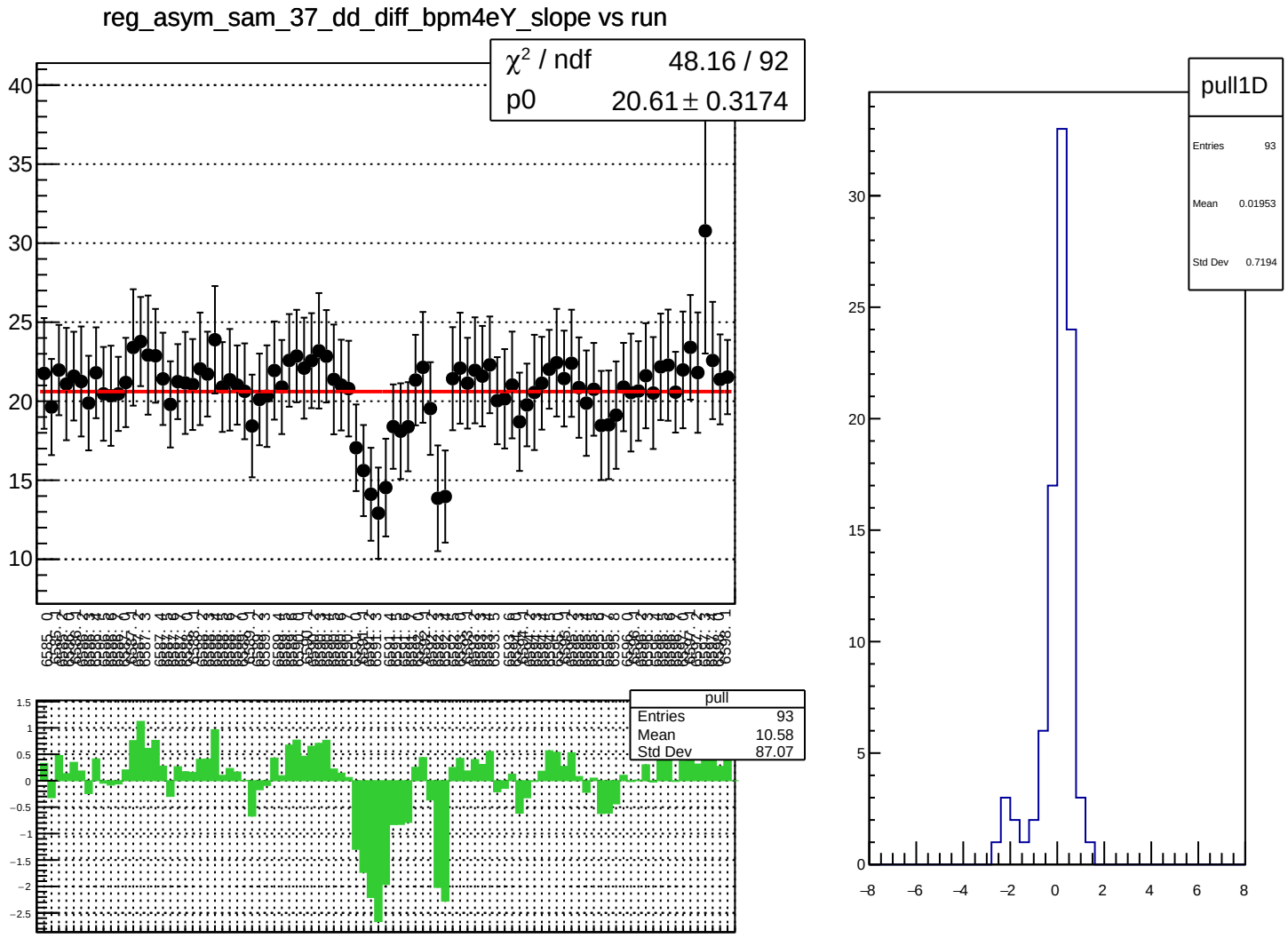

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.16 / 92
p0 1.045 ± 0.5676
pull
Entries 93
Mean 24.5
Std Dev 98.28
pull1D
Entries 93
Mean 0.02313
Std Dev 0.8302

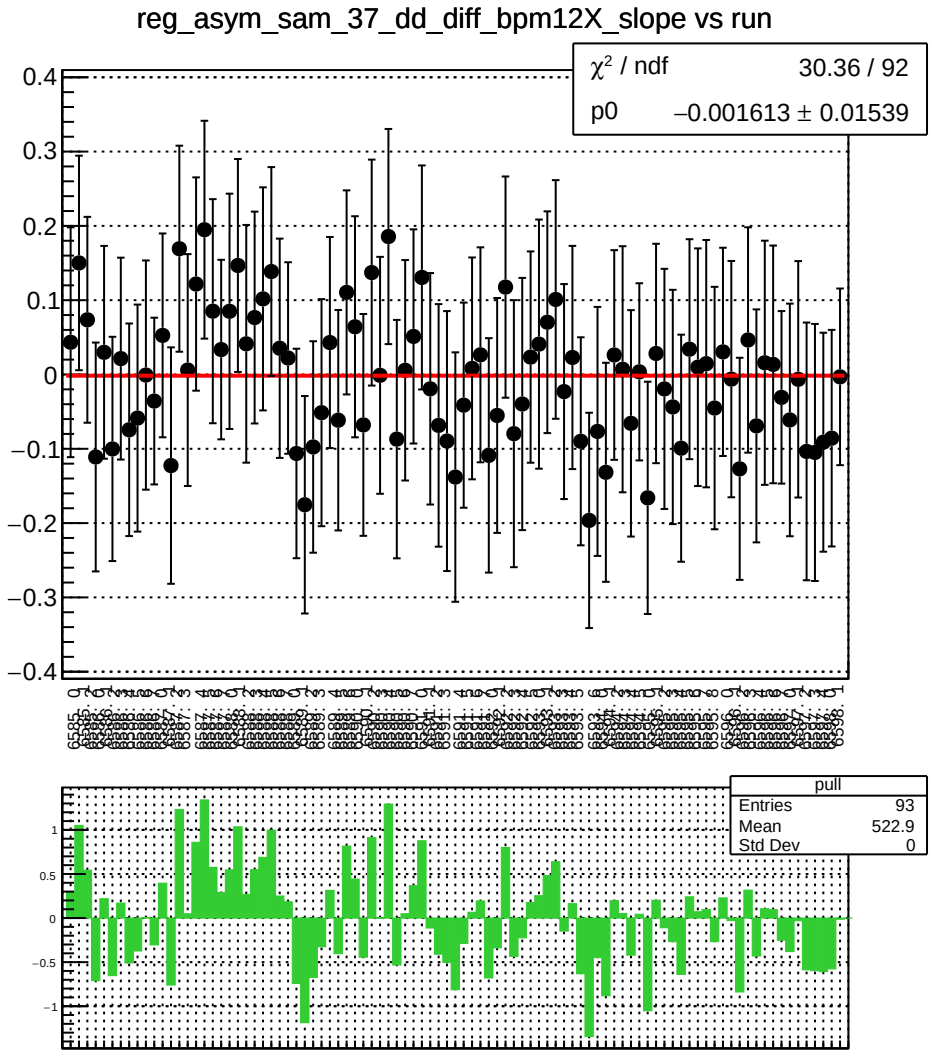

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 3.455 / 92
p0 0.3457 ± 0.02752
pull
Entries 93
Mean −166.6
Std Dev 0
pull1D
Entries 93
Mean −0.003287
Std Dev 0.1927

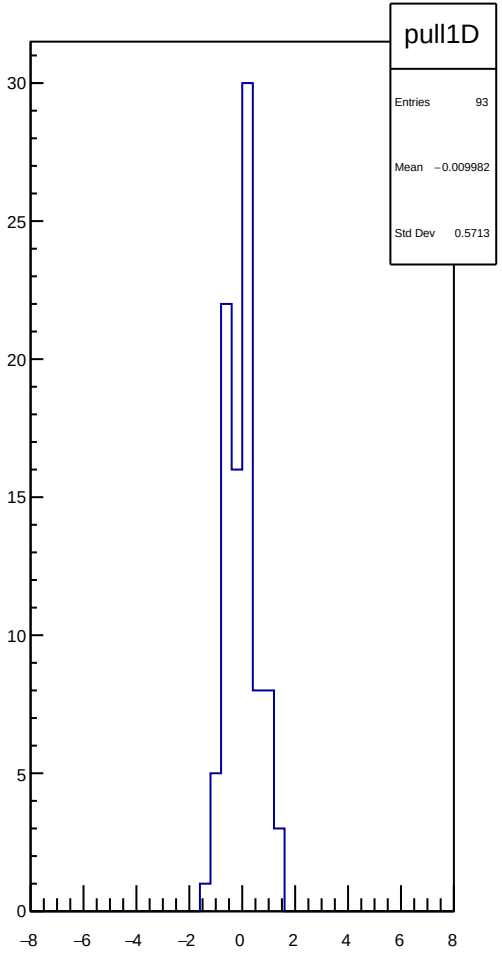

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 108.9 / 92
p0 −29.71 ± 0.3668
pull
Entries 93
Mean 110.6
Std Dev 33.12
pull1D
Entries 93
Mean 0.05371
Std Dev 1.081

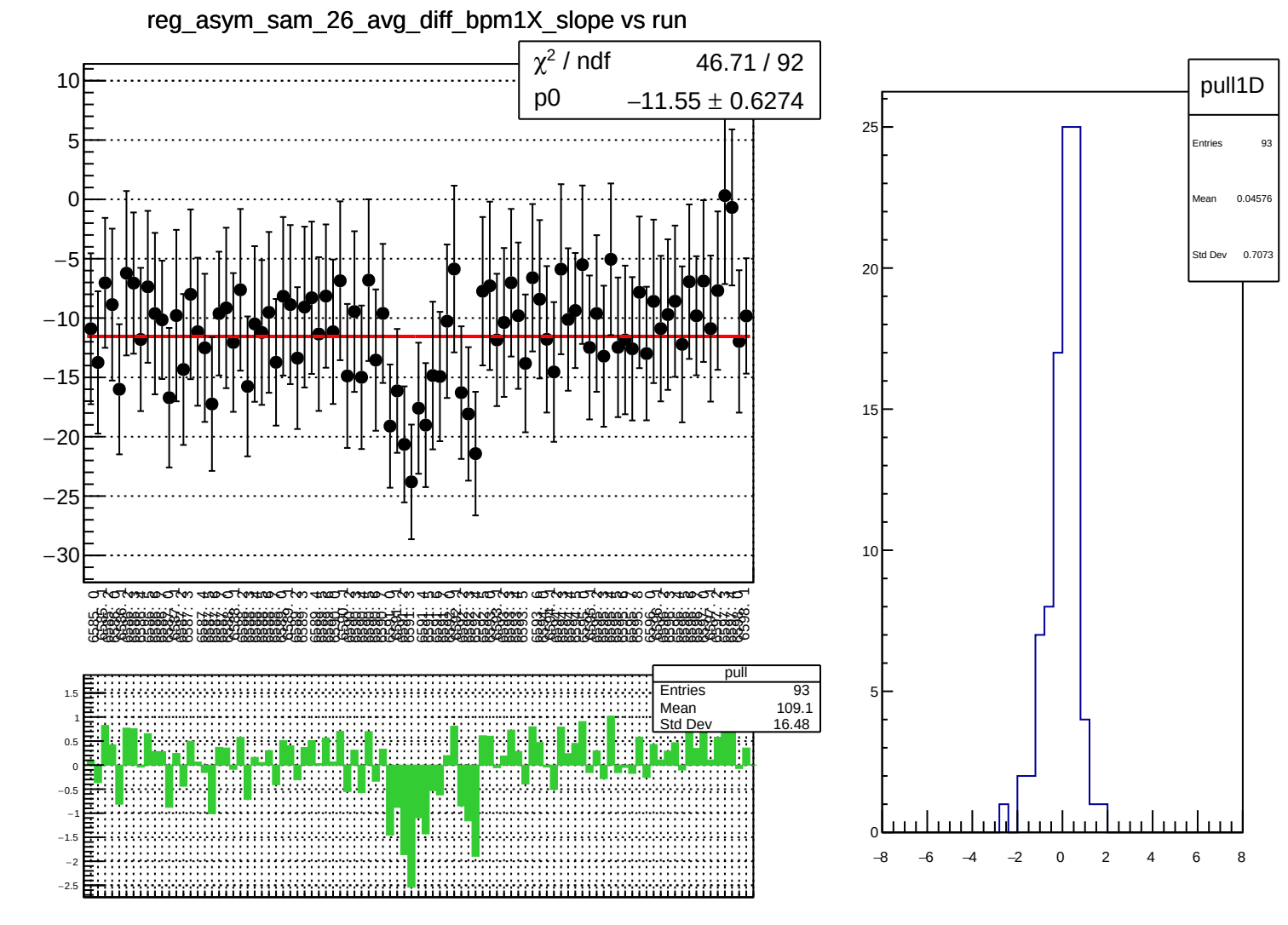

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.76 / 92
p0 −5.244 ± 0.266
pull
Entries 93
Mean 7.497
Std Dev 74.45
pull1D
Entries 93
Mean −0.02303
Std Dev 0.7237

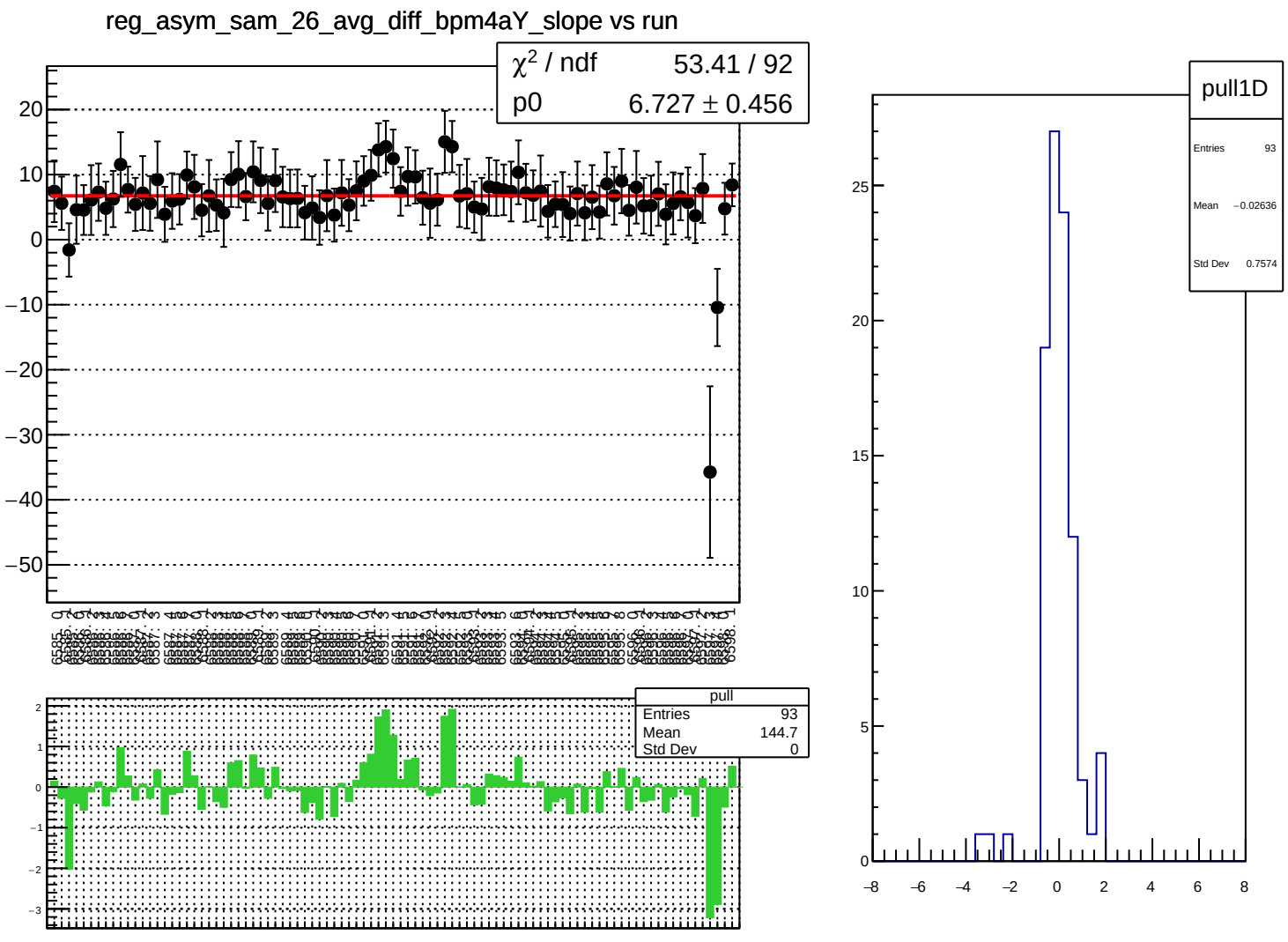

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.28 / 92
p0 −15.68 ± 0.3763
pull
Entries 93
Mean 154.1
Std Dev 0
pull1D
Entries 93
Mean −0.06429
Std Dev 0.9722

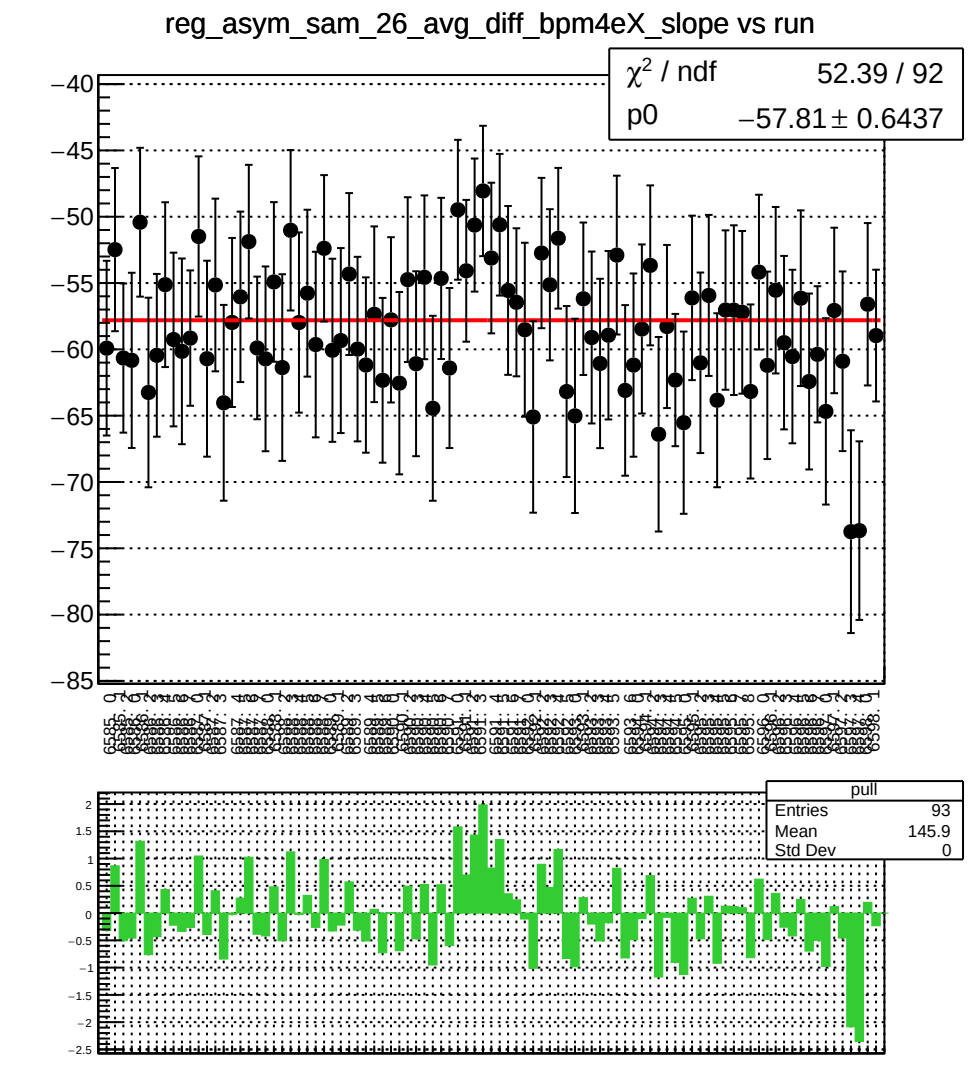

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.16 / 92
p0 20.61 ± 0.3174
pull
Entries 93
Mean 10.58
Std Dev 87.07
pull1D
Entries 93
Mean 0.01953
Std Dev 0.7194

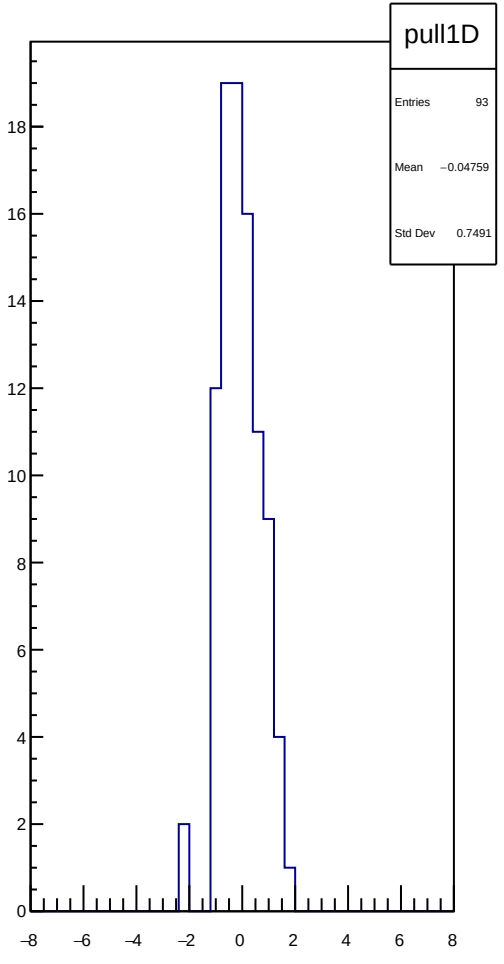

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 30.36 / 92
p0 −0.001613 ± 0.01539
pull
Entries 93
Mean 522.9
Std Dev 0

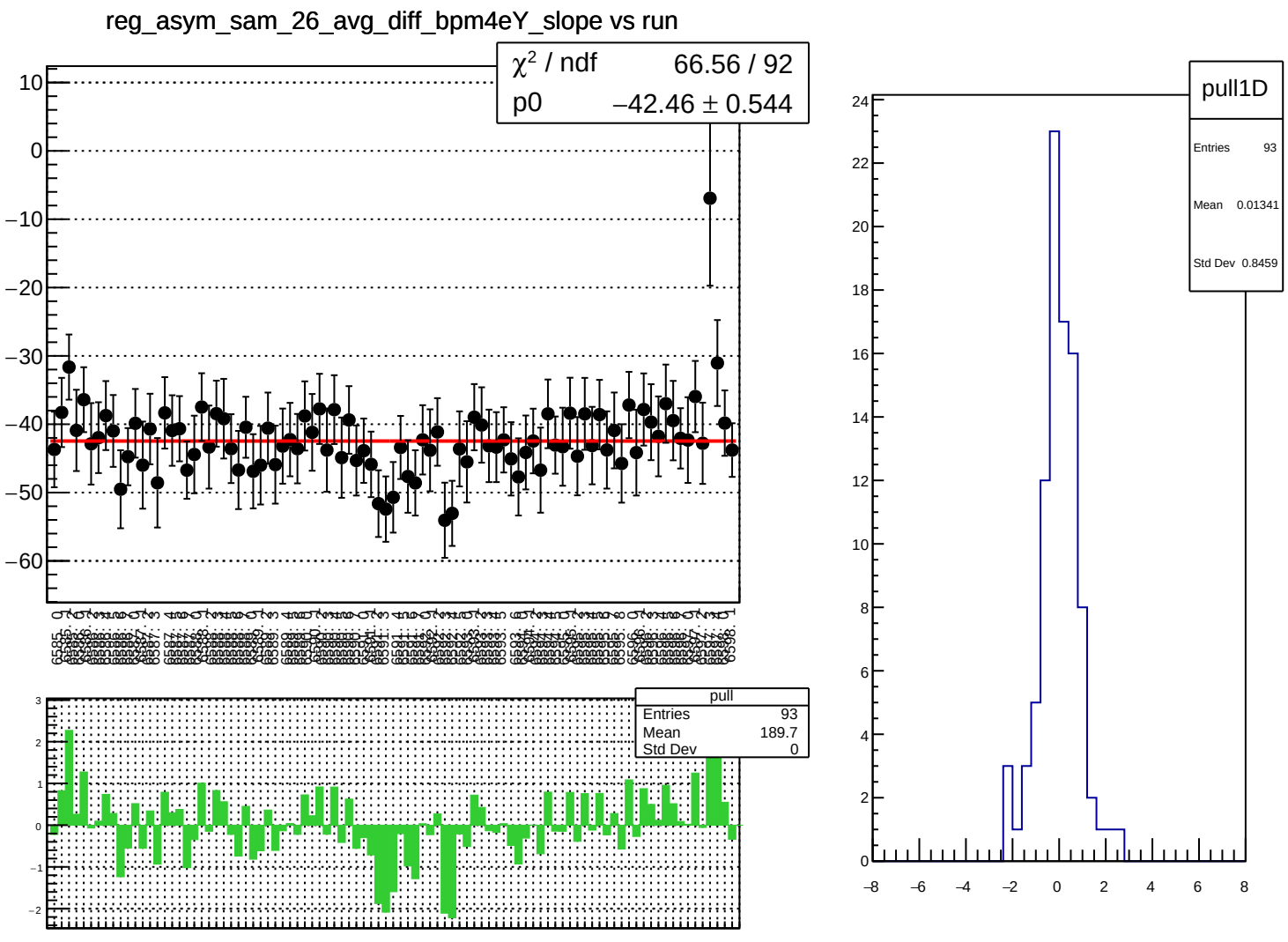

pull1D
Entries 93
Mean −0.009982
Std Dev 0.5713

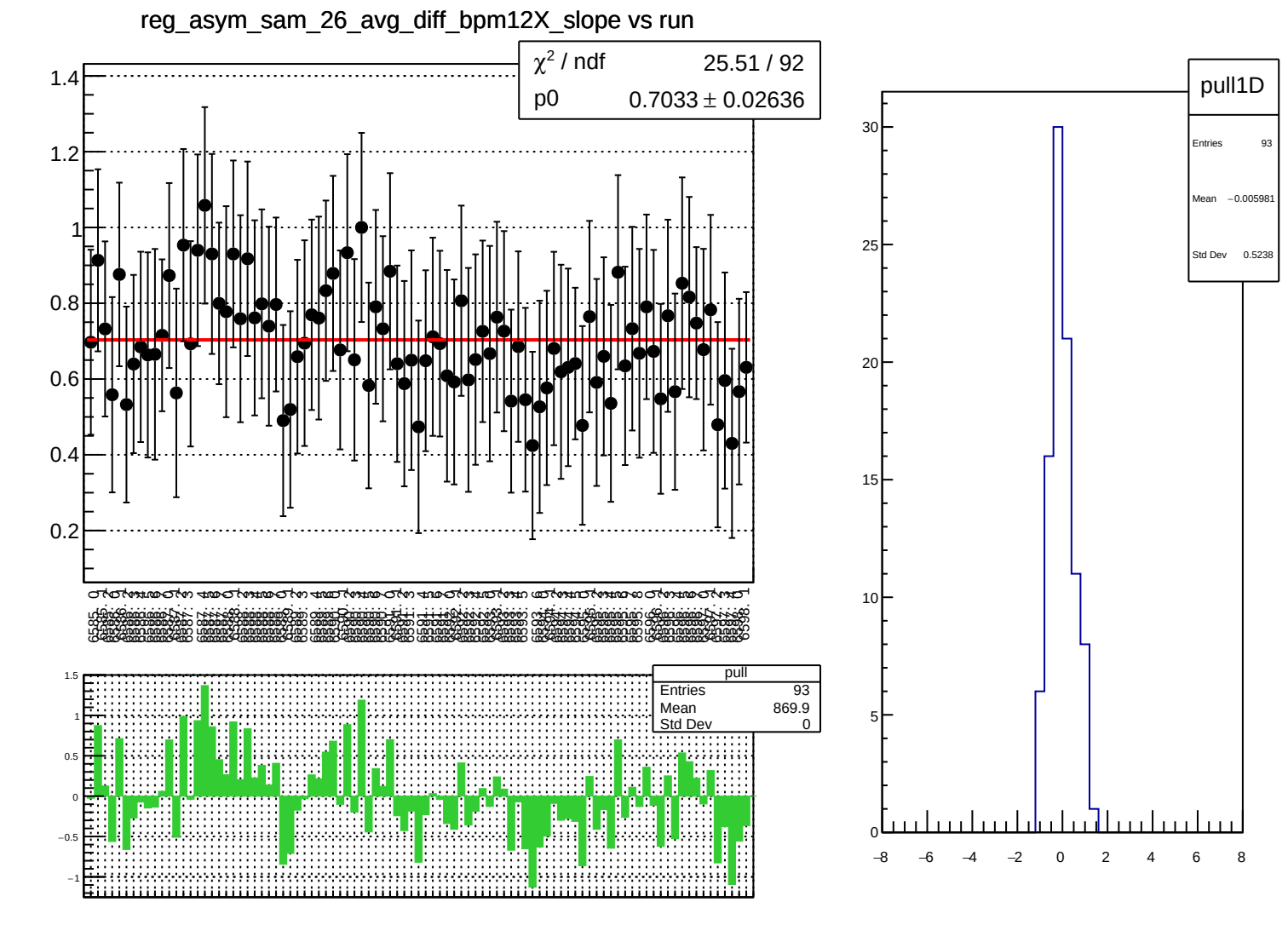

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 46.71 / 92
p0 −11.55 ± 0.6274
pull
Entries 93
Mean 109.1
Std Dev 16.48
pull1D
Entries 93
Mean 0.04576
Std Dev 0.7073

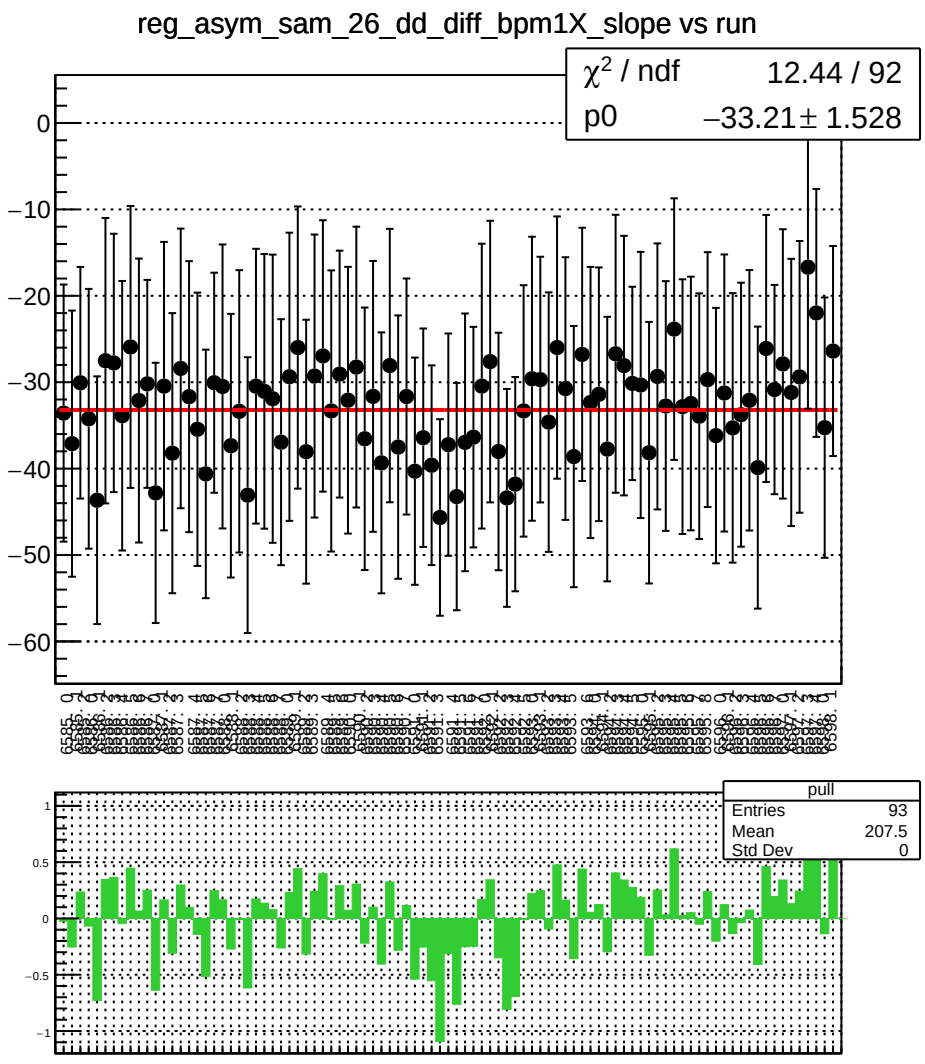

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.41 / 92
p0 6.727 ± 0.456
pull
Entries 93
Mean 144.7
Std Dev 0
pull1D
Entries 93
Mean −0.02636
Std Dev 0.7574

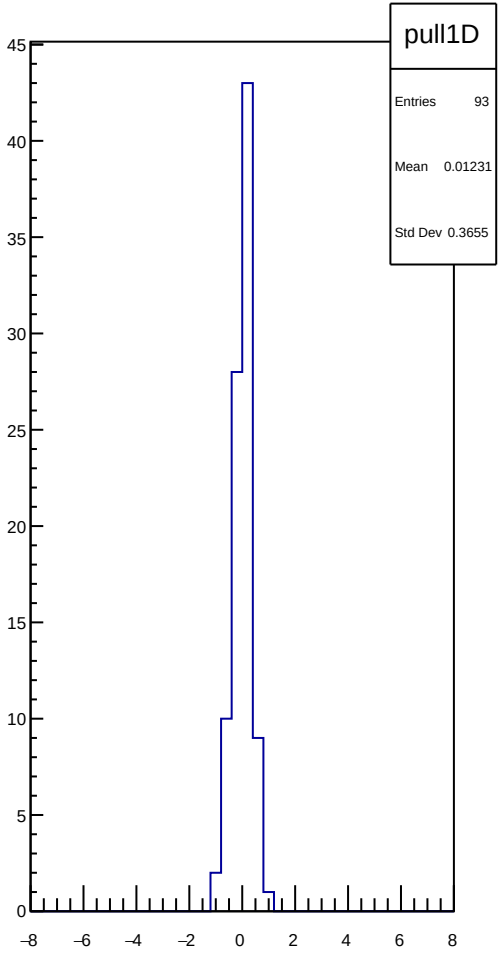

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.39 / 92
p0 −57.81 ± 0.6437
pull
Entries 93
Mean 145.9
Std Dev 0

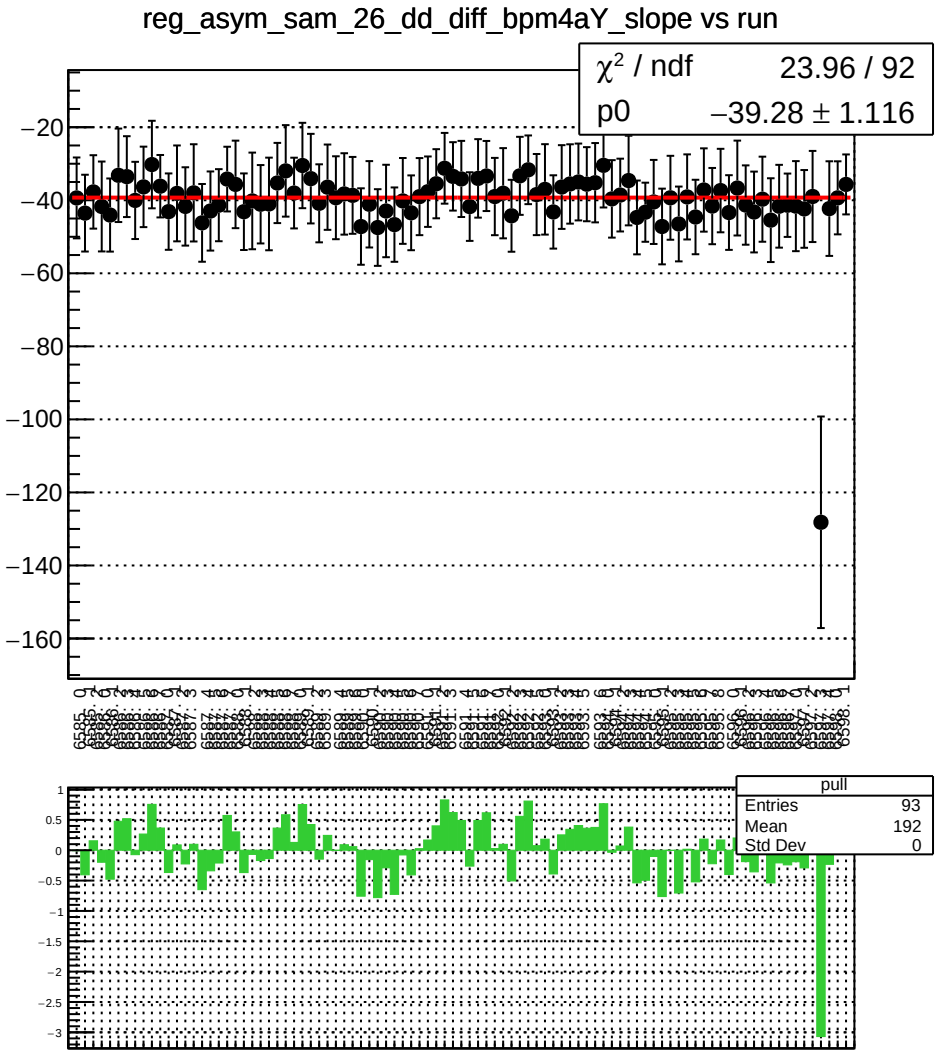

pull1D
Entries 93
Mean −0.04759
Std Dev 0.7491

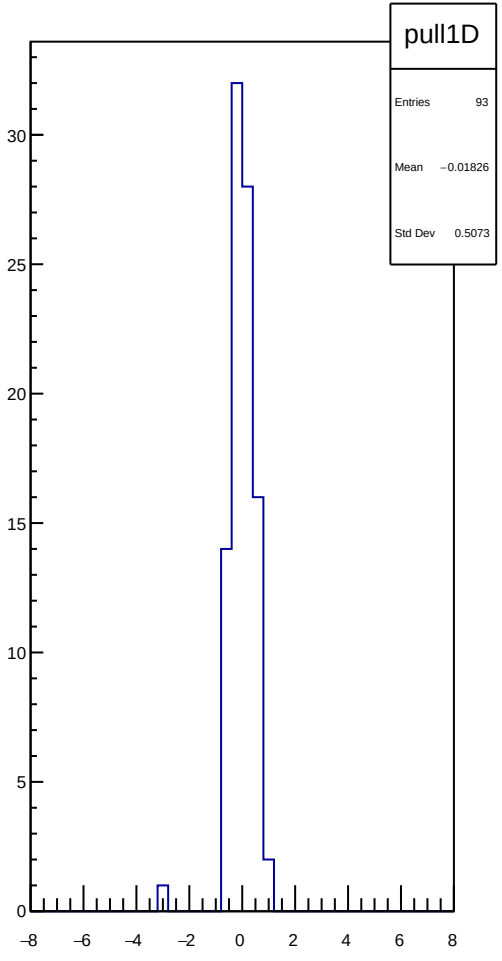

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 66.56 / 92
p0 −42.46 ± 0.544
pull
Entries 93
Mean 189.7
Std Dev 0
pull1D
Entries 93
Mean 0.01341
Std Dev 0.8459

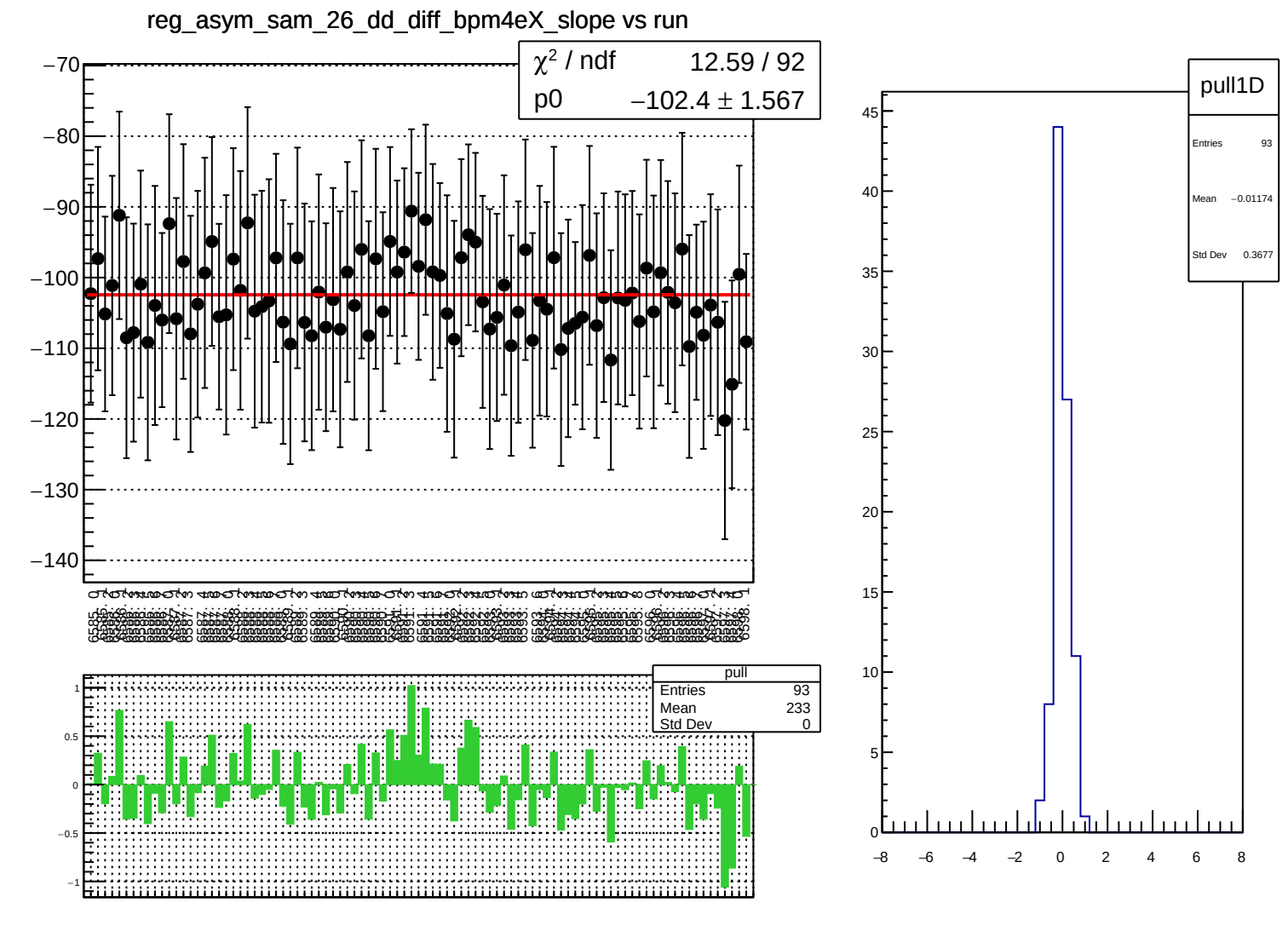

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 25.51 / 92
p0 0.7033 ± 0.02636
pull
Entries 93
Mean 869.9
Std Dev 0
pull1D
Entries 93
Mean −0.005981
Std Dev 0.5238

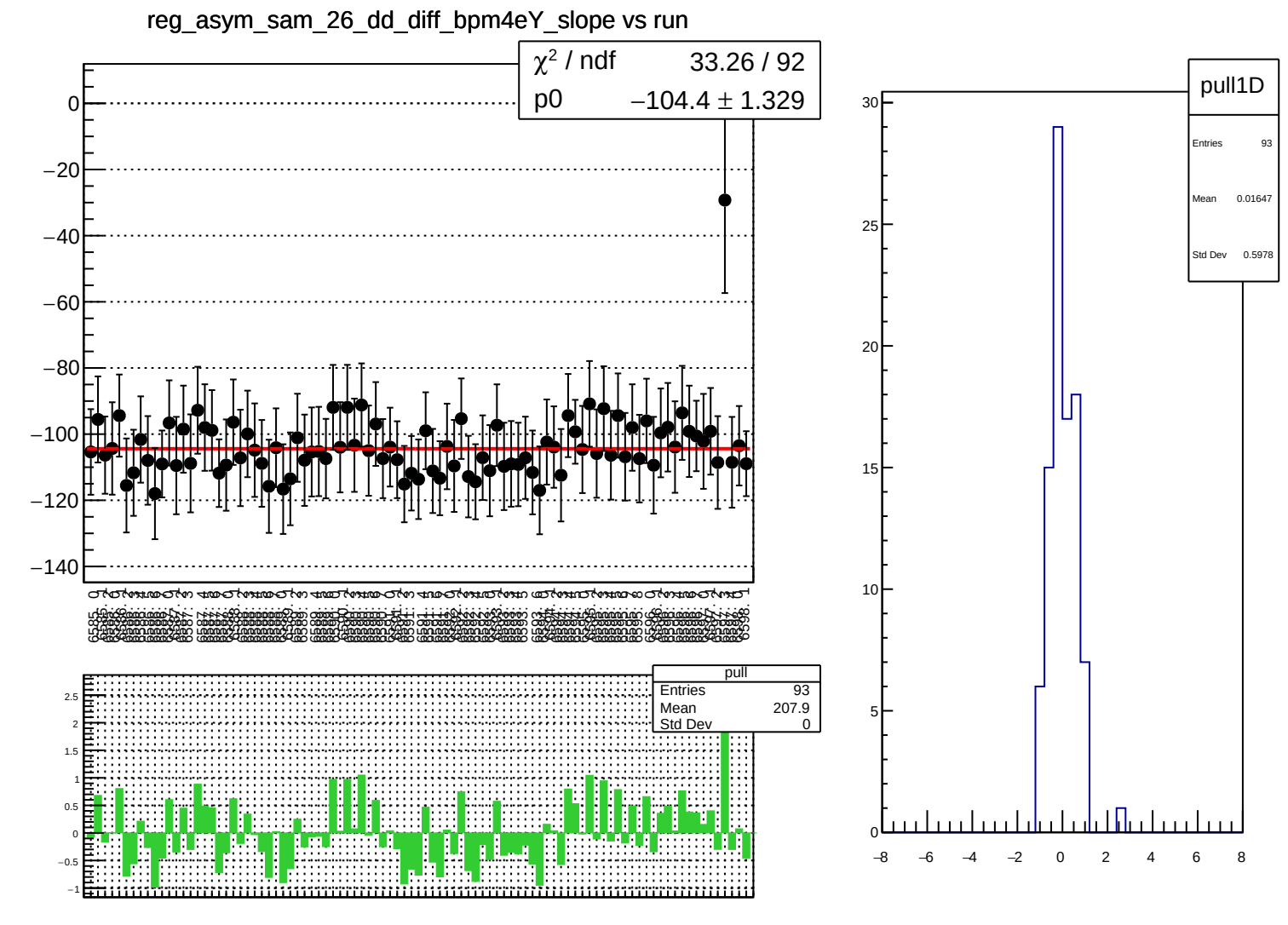

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 12.44 / 92
p0 −33.21 ± 1.528
pull
Entries 93
Mean 207.5
Std Dev 0

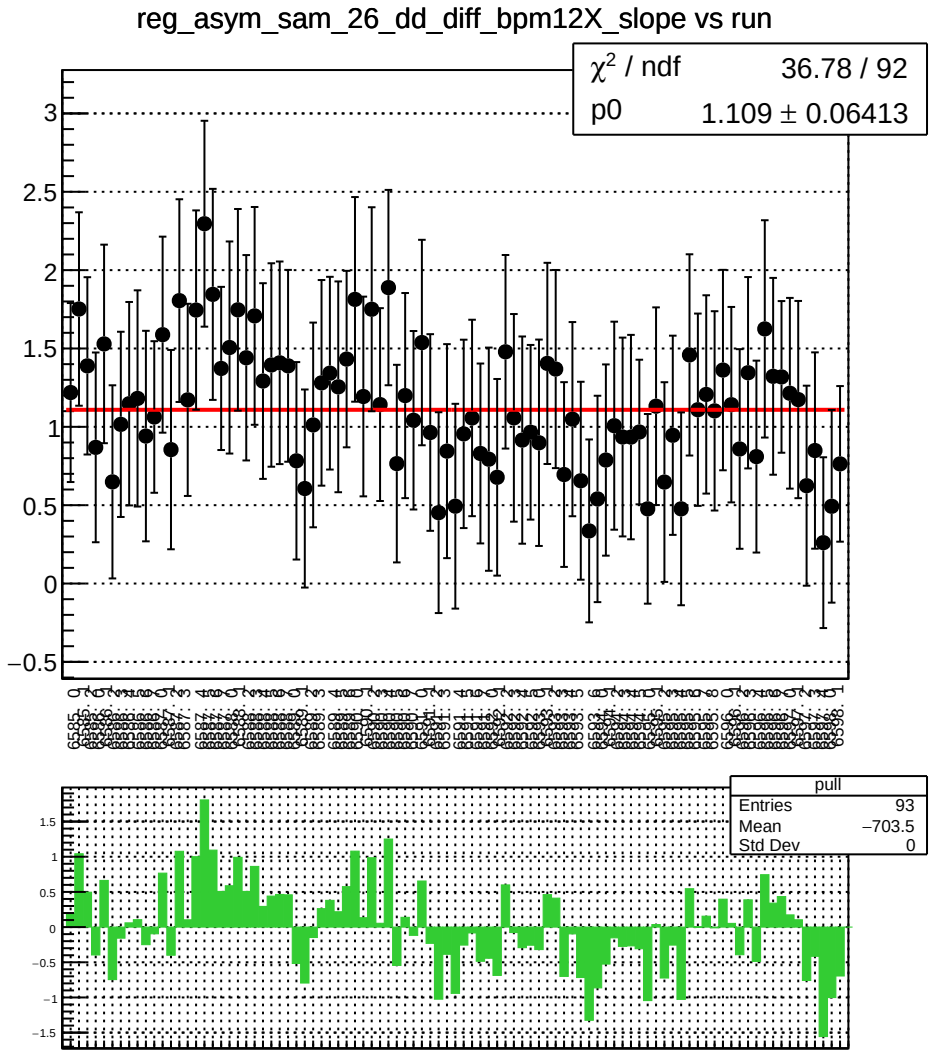

pull1D
Entries 93
Mean 0.01231
Std Dev 0.3655

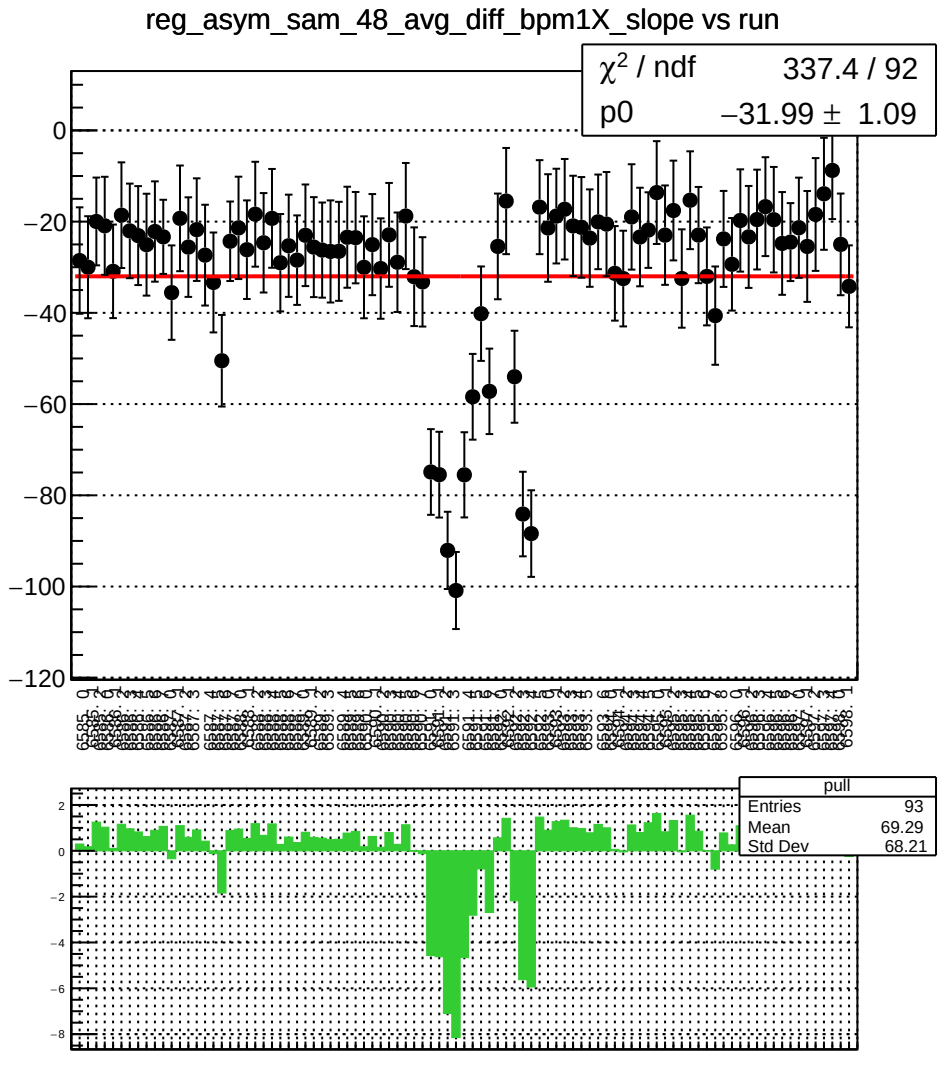

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.96 / 92
p0 −39.28 ± 1.116
pull
Entries 93
Mean 192
Std Dev 0

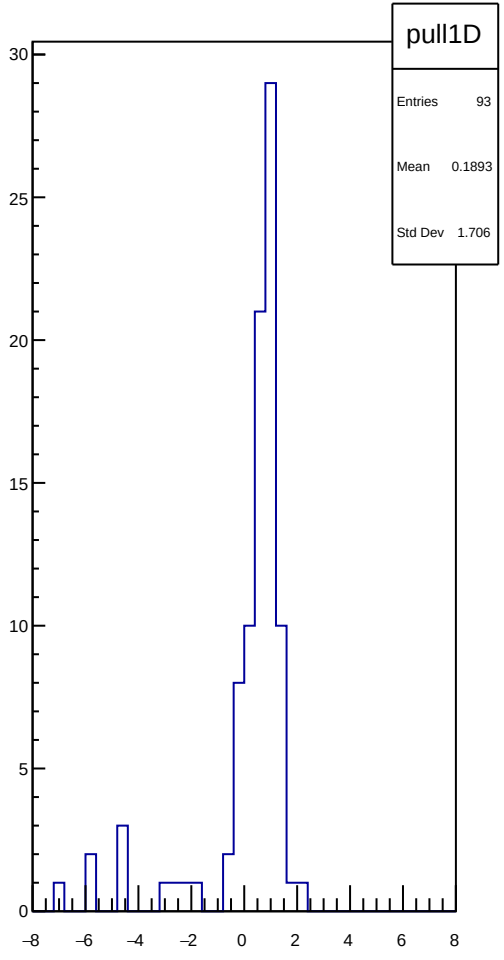

pull1D
Entries 93
Mean −0.01826
Std Dev 0.5073

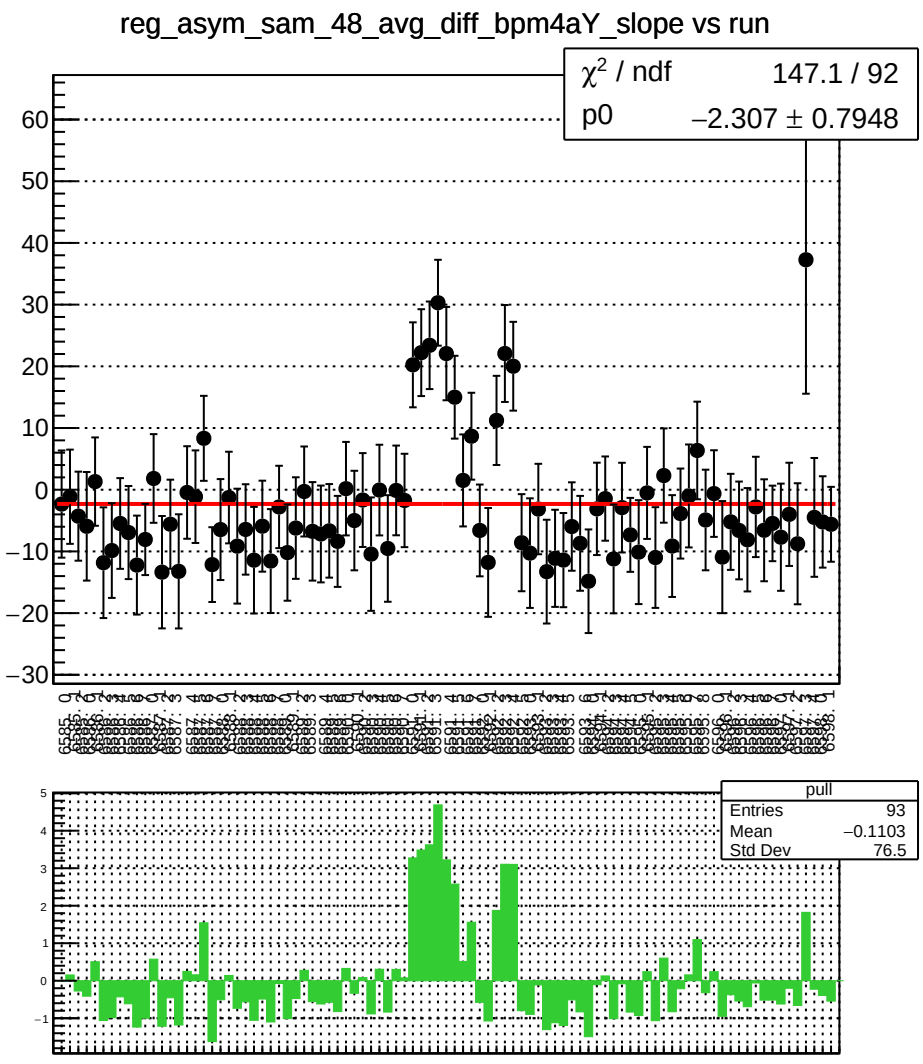

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.59 / 92
p0 −102.4 ± 1.567
pull
Entries 93
Mean 233
Std Dev 0
pull1D
Entries 93
Mean −0.01174
Std Dev 0.3677

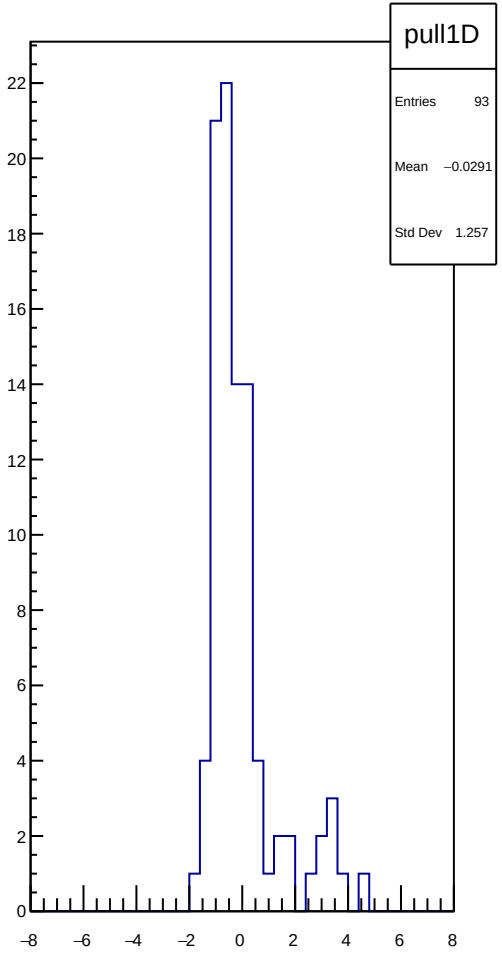

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.26 / 92
p0 −104.4 ± 1.329
pull
Entries 93
Mean 207.9
Std Dev 0
pull1D
Entries 93
Mean 0.01647
Std Dev 0.5978

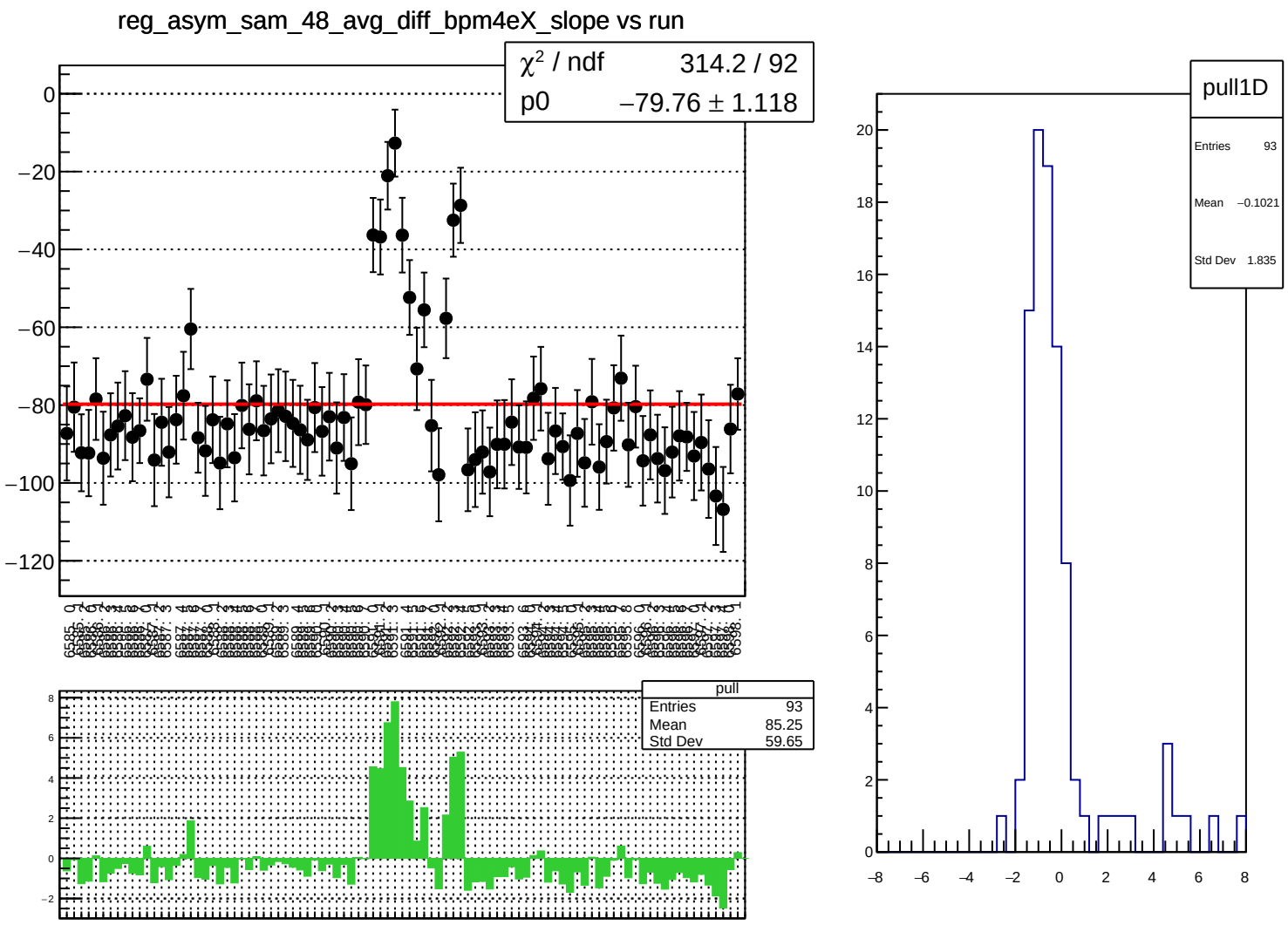

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 36.78 / 92
p0 1.109 ± 0.06413
pull
Entries 93
Mean −703.5
Std Dev 0
pull1D
Entries 93
Mean 0.009147
Std Dev 0.6288

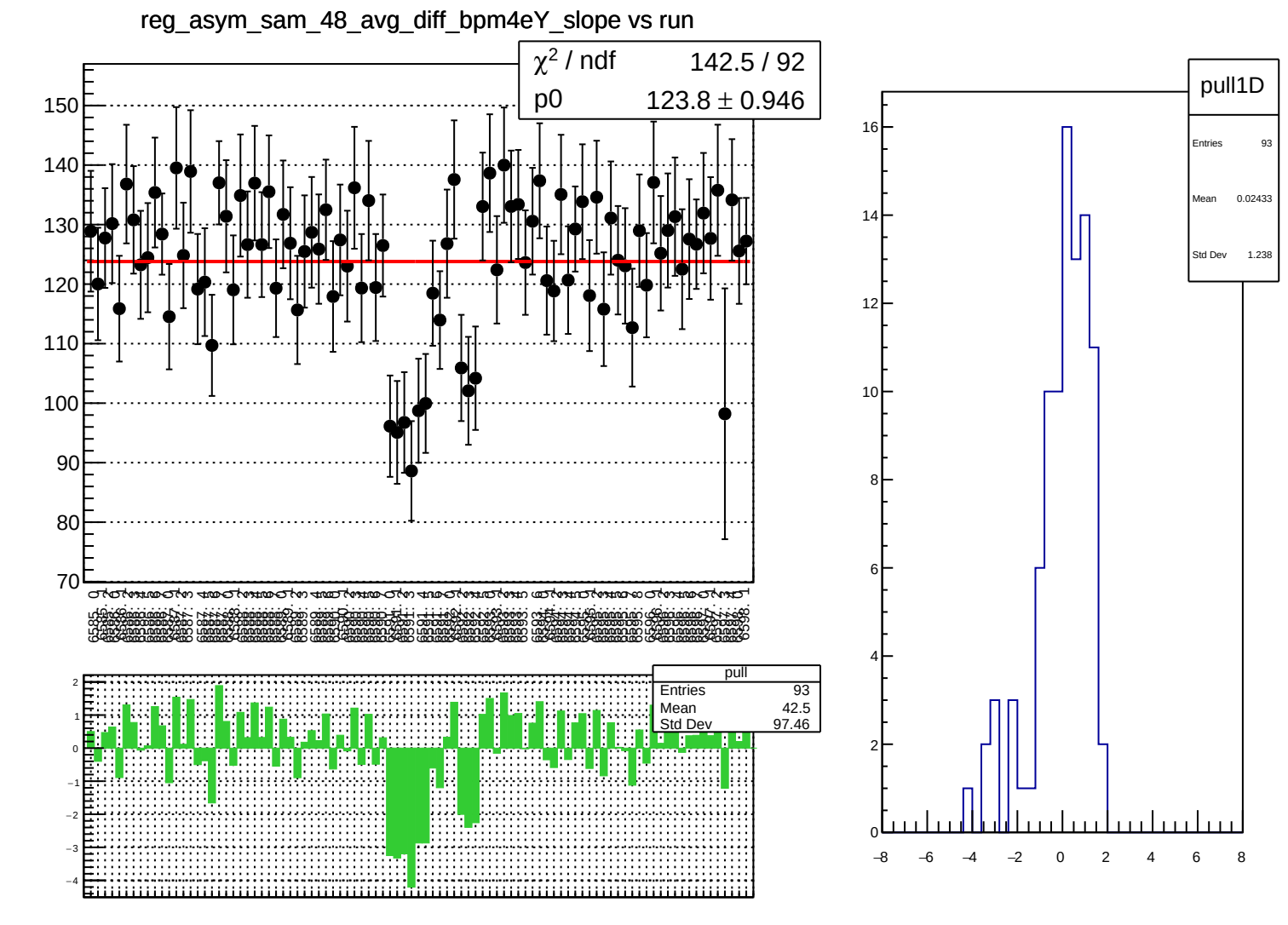

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 337.4 / 92
p0 −31.99 ± 1.09
0
−20
−40
−60
−80
−100
−120
pull
Entries 93
Mean 69.29
Std Dev 68.21
2
0
−2
−4
−6
−8

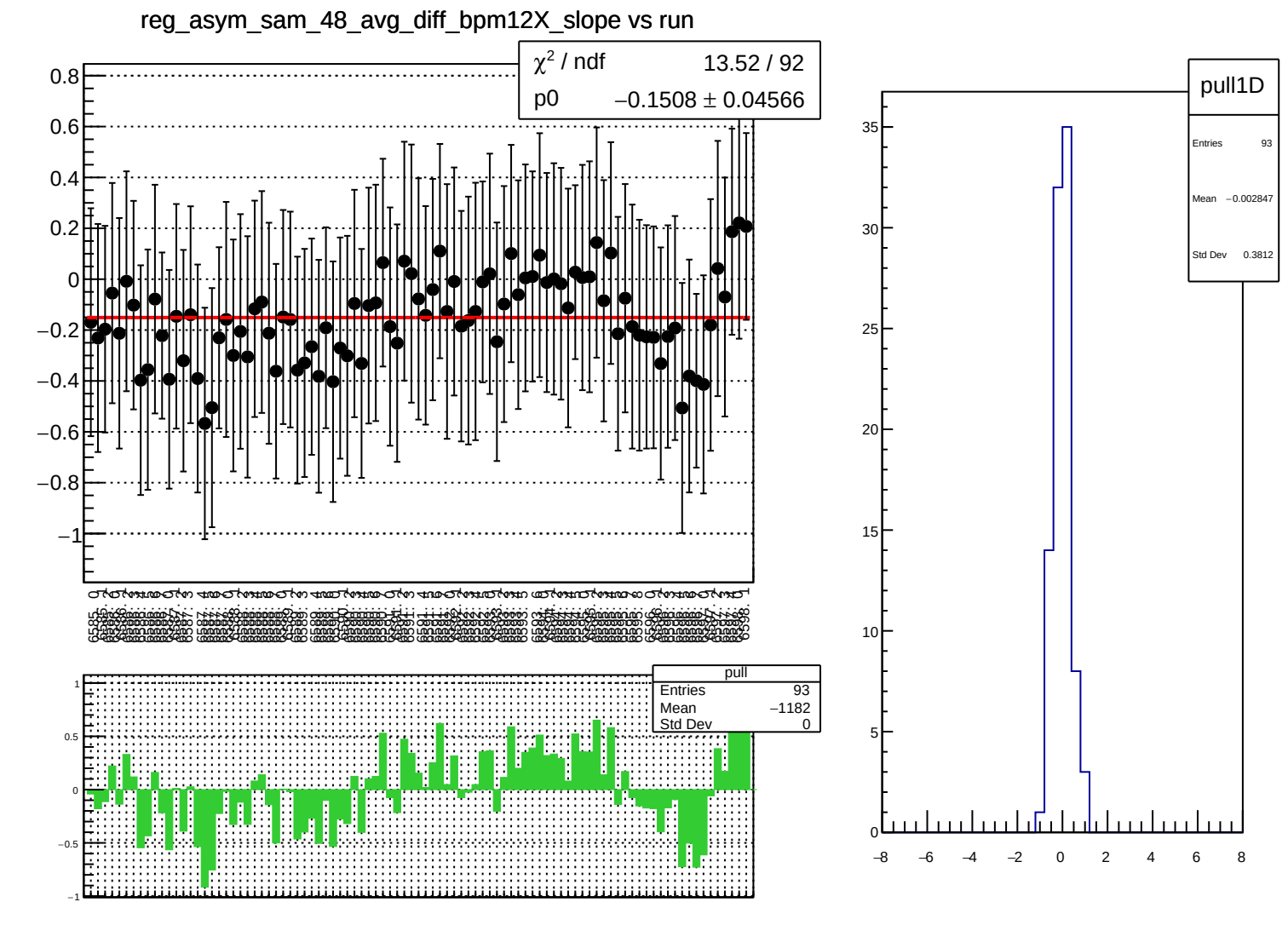

pull1D
Entries 93
Mean 0.1893
Std Dev 1.706
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

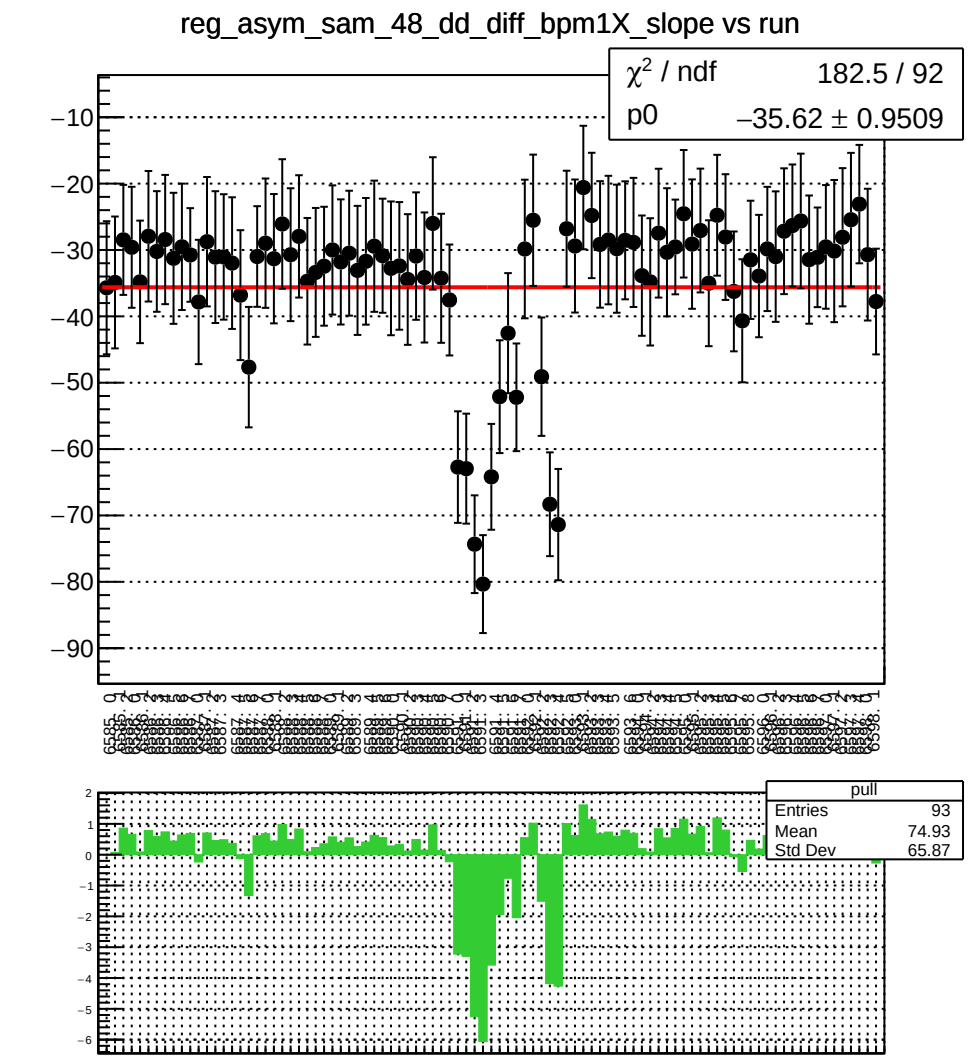

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 147.1 / 92
p0 −2.307 ± 0.7948
pull
Entries 93
Mean −0.1103
Std Dev 76.5

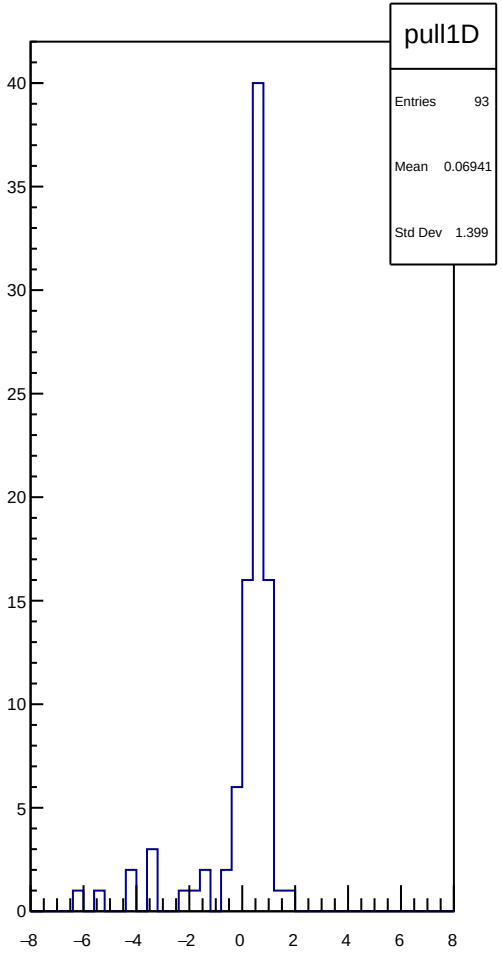

pull1D
Entries 93
Mean −0.0291
Std Dev 1.257

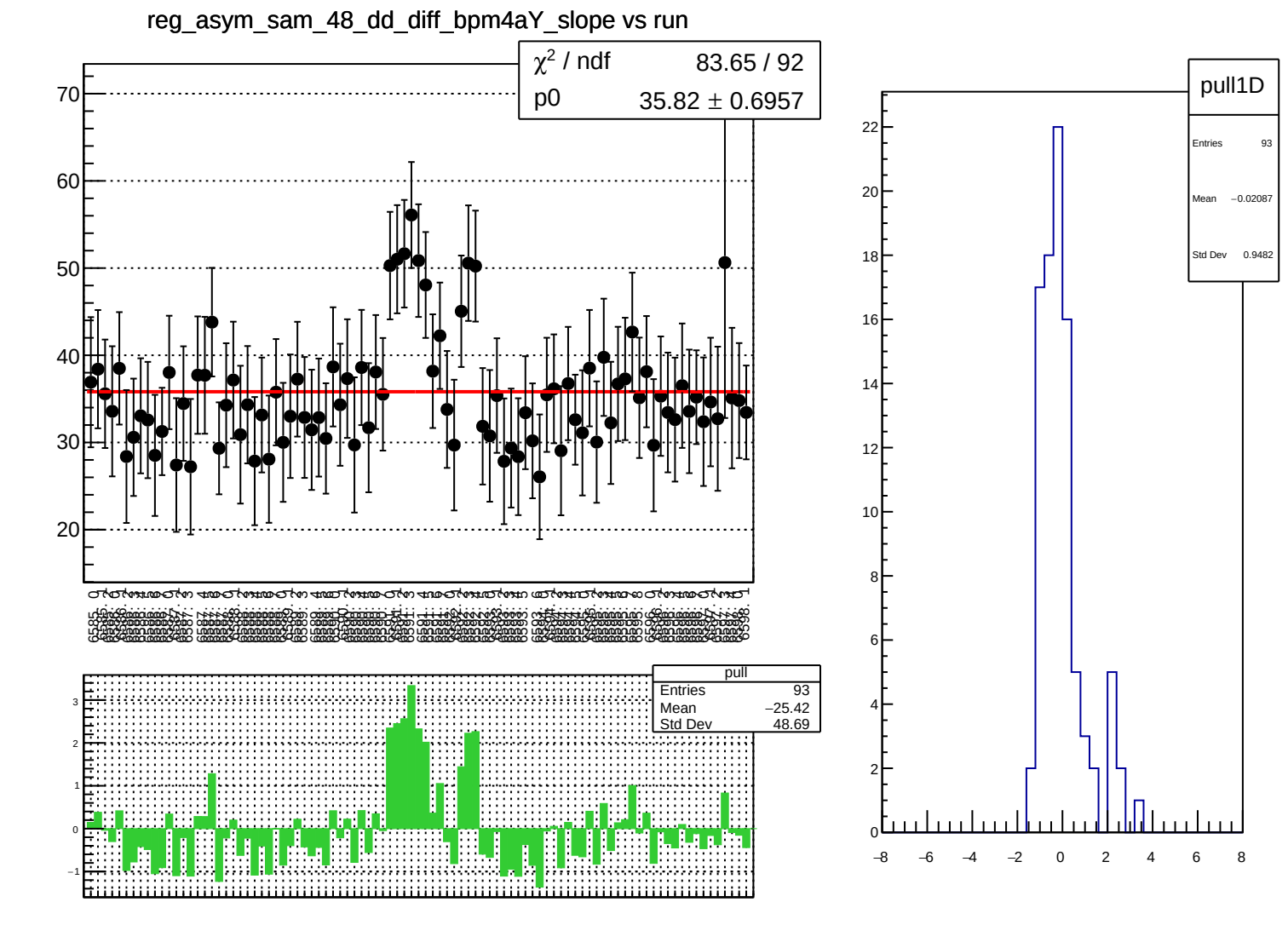

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 314.2 / 92
p0 −79.76 ± 1.118
pull
Entries 93
Mean 85.25
Std Dev 59.65
pull1D
Entries 93
Mean −0.1021
Std Dev 1.835

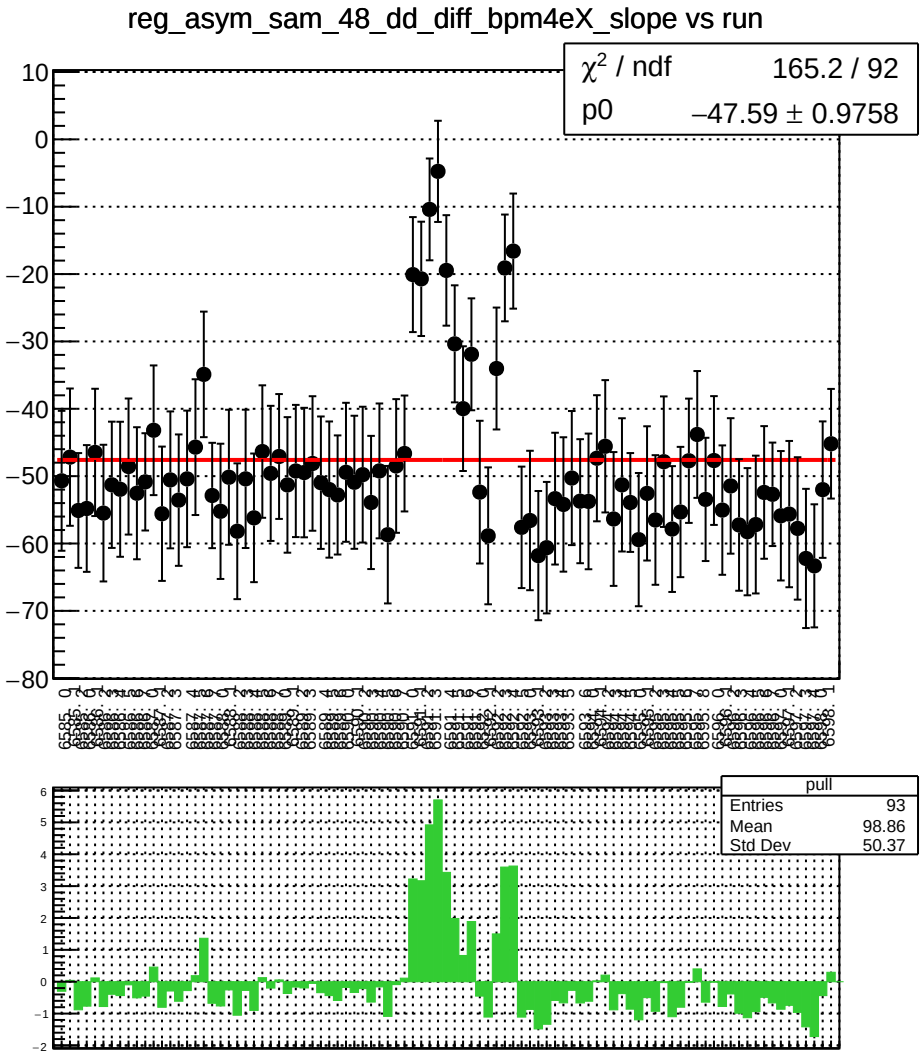

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 142.5 / 92
p0 123.8 ± 0.946
150
140
130
120
110
100
90
80
70
pull
Entries 93
Mean 42.5
Std Dev 97.46
2
1
0
−1
−2
−3
−4
pull1D
Entries 93
Mean 0.02433
Std Dev 1.238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

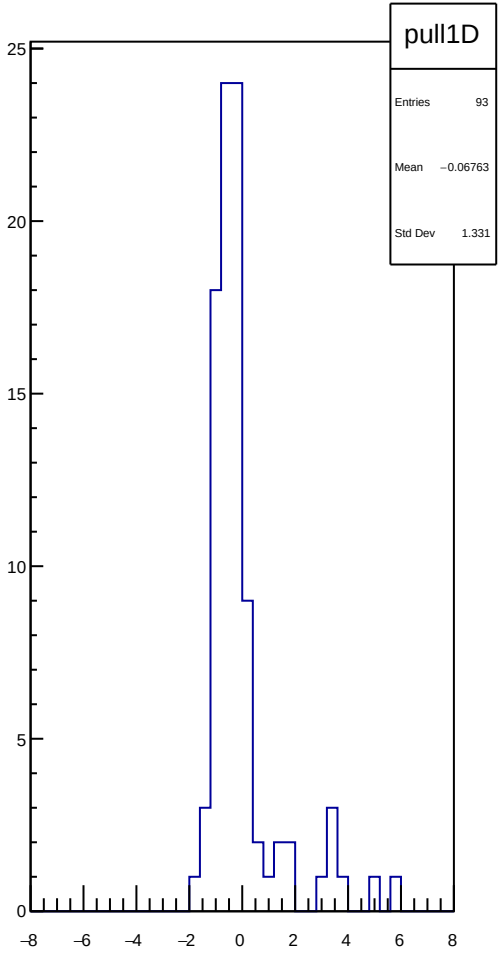

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 13.52 / 92
p0 −0.1508 ± 0.04566
pull
Entries 93
Mean −1182
Std Dev 0
pull1D
Entries 93
Mean −0.002847
Std Dev 0.3812

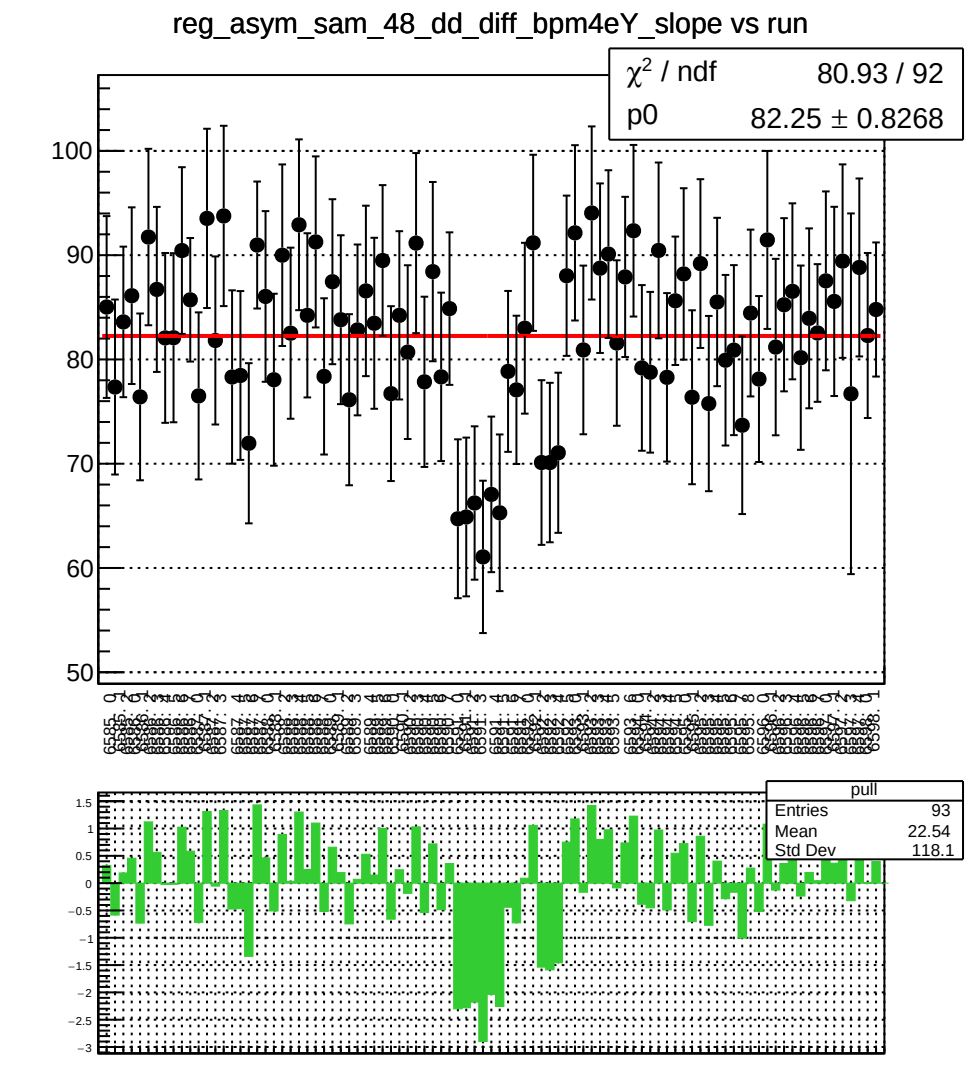

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 182.5 / 92
p0 −35.62 ± 0.9509
pull
Entries 93
Mean 74.93
Std Dev 65.87

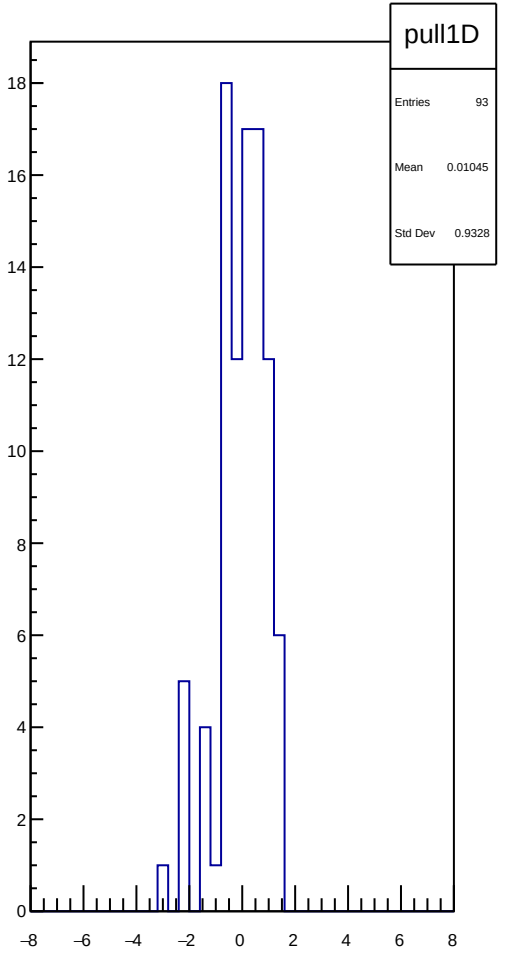

pull1D
Entries 93
Mean 0.06941
Std Dev 1.399

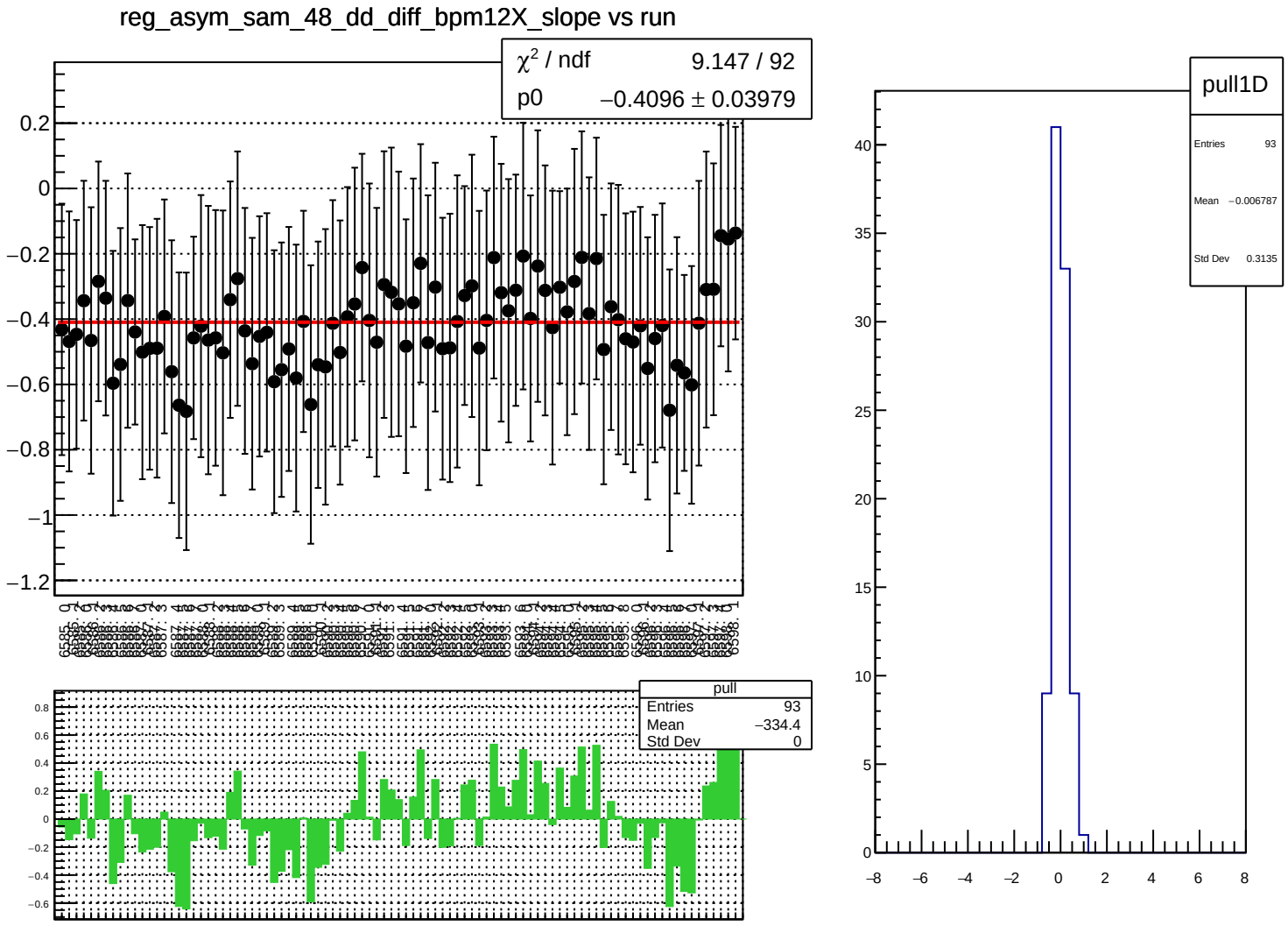

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 83.65 / 92
p0 35.82 ± 0.6957
pull
Entries 93
Mean −25.42
Std Dev 48.69
pull1D
Entries 93
Mean −0.02087
Std Dev 0.9482

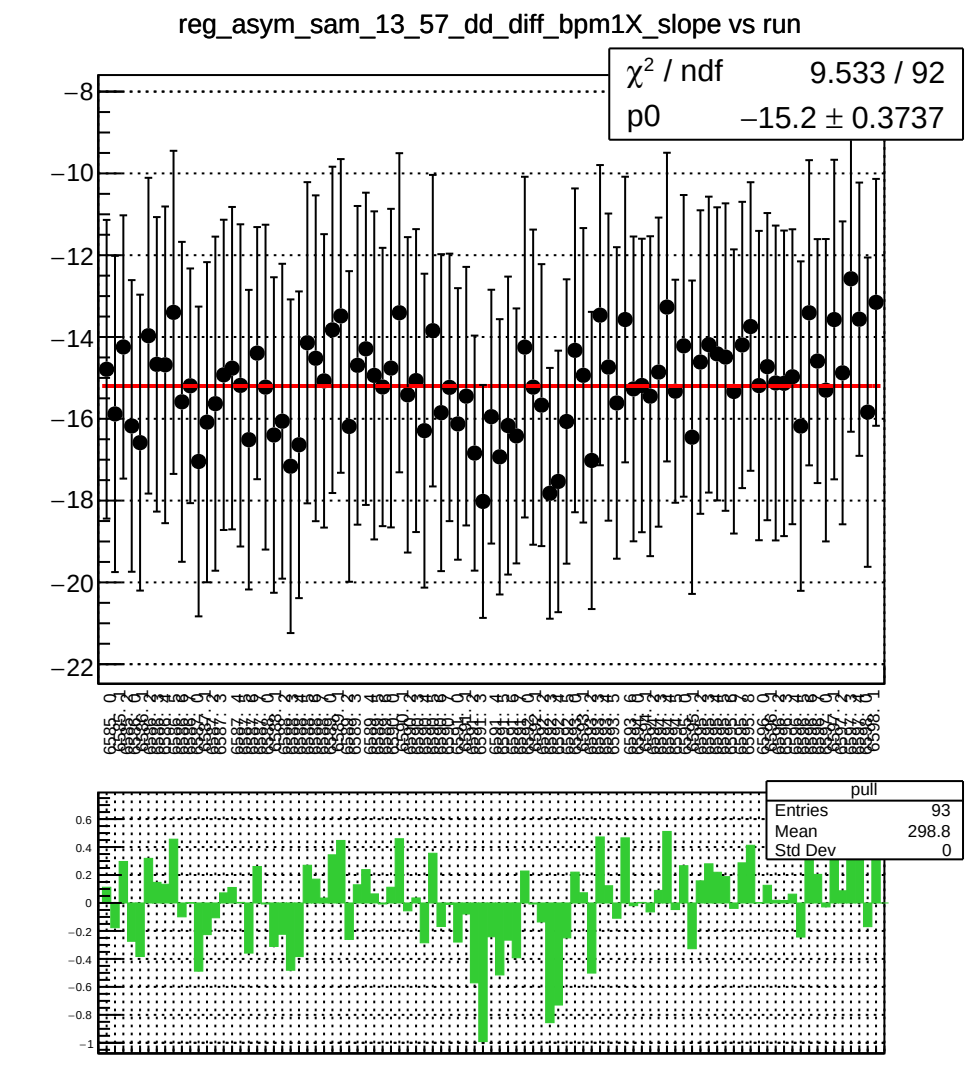

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 165.2 / 92
p0 −47.59 ± 0.9758
pull
Entries 93
Mean 98.86
Std Dev 50.37

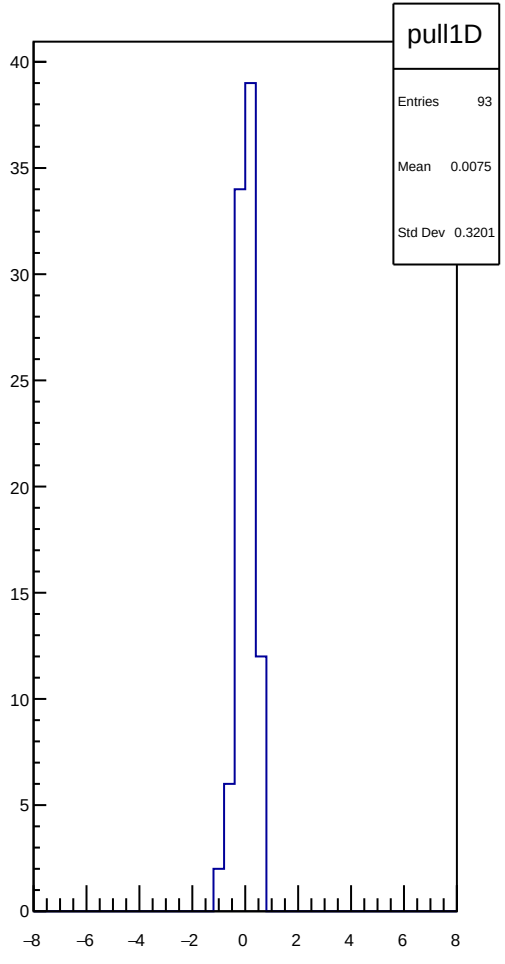

pull1D
Entries 93
Mean −0.06763
Std Dev 1.331

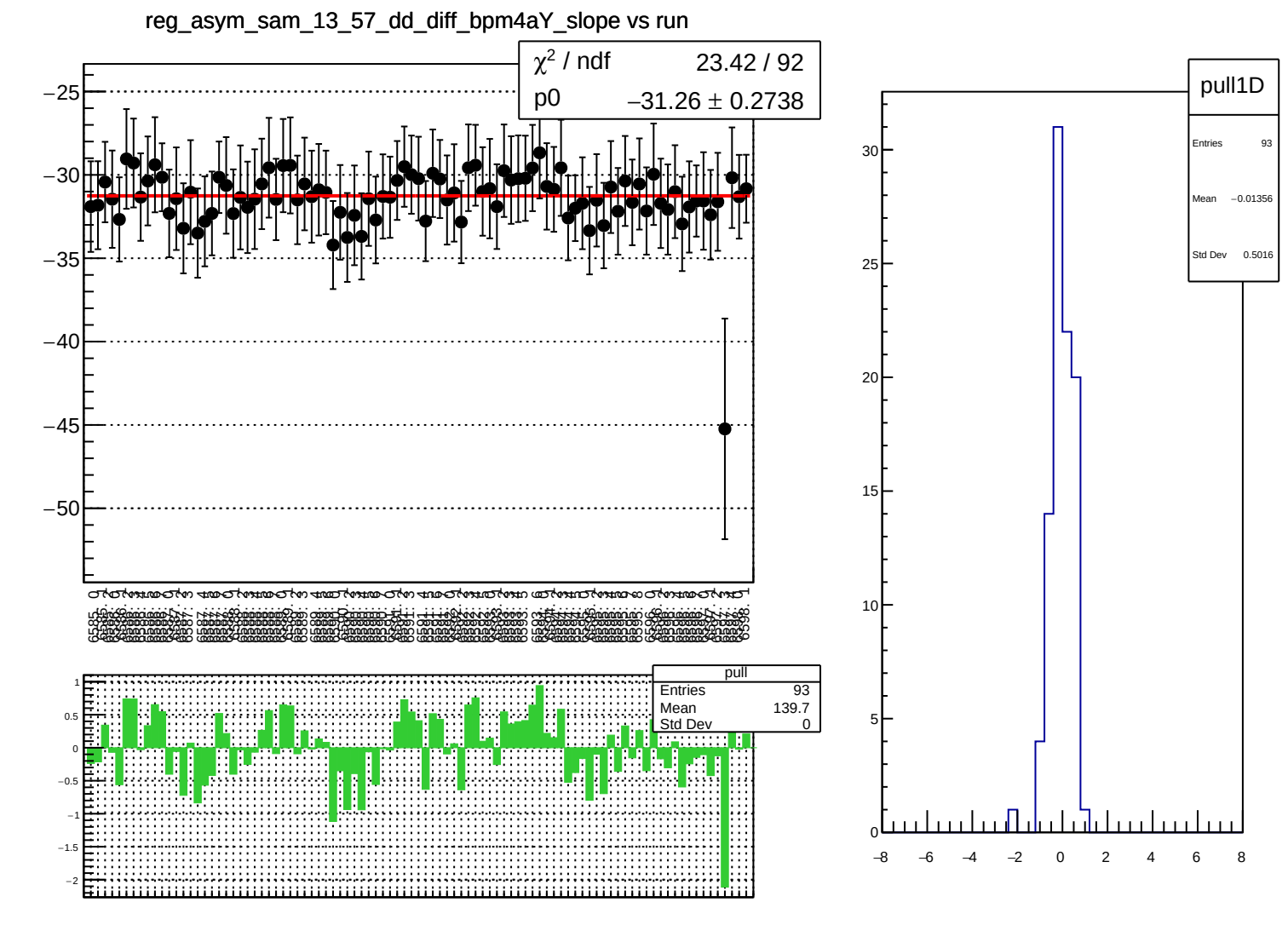

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.93 / 92
p0 82.25 ± 0.8268
pull
Entries 93
Mean 22.54
Std Dev 118.1

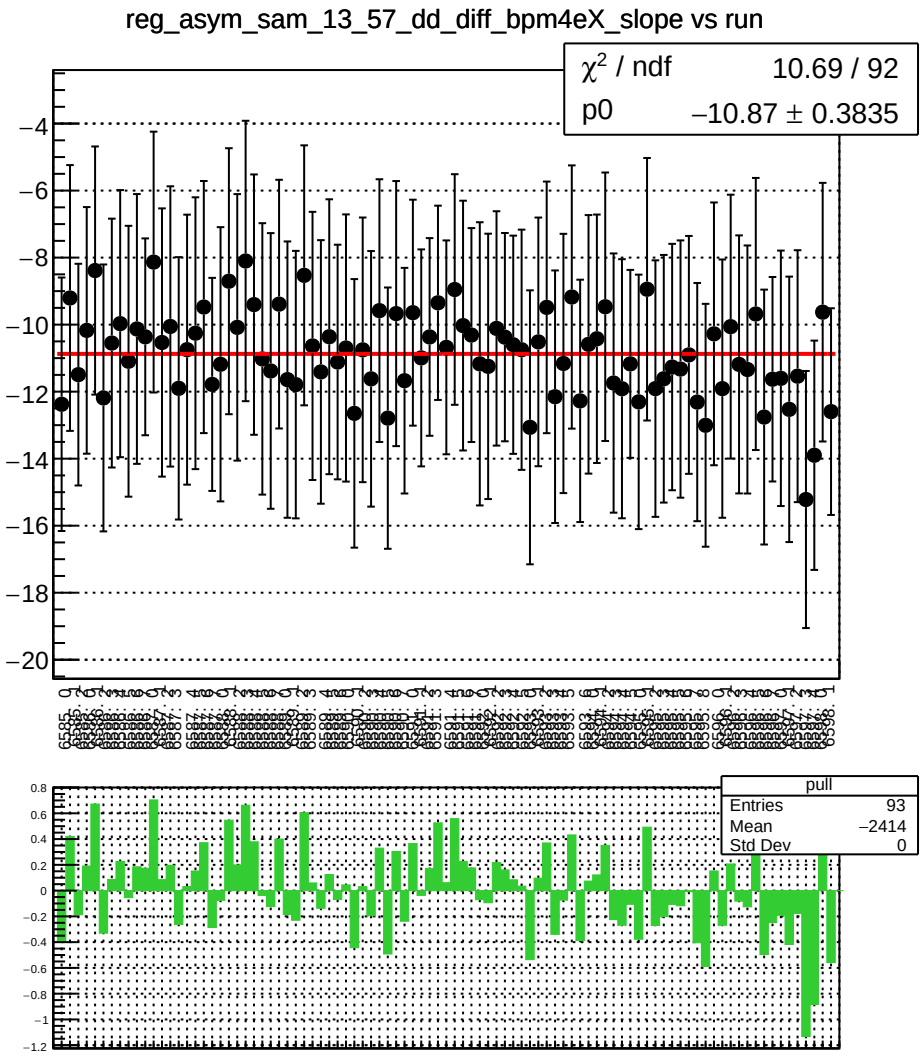

pull1D
Entries 93
Mean 0.01045
Std Dev 0.9328

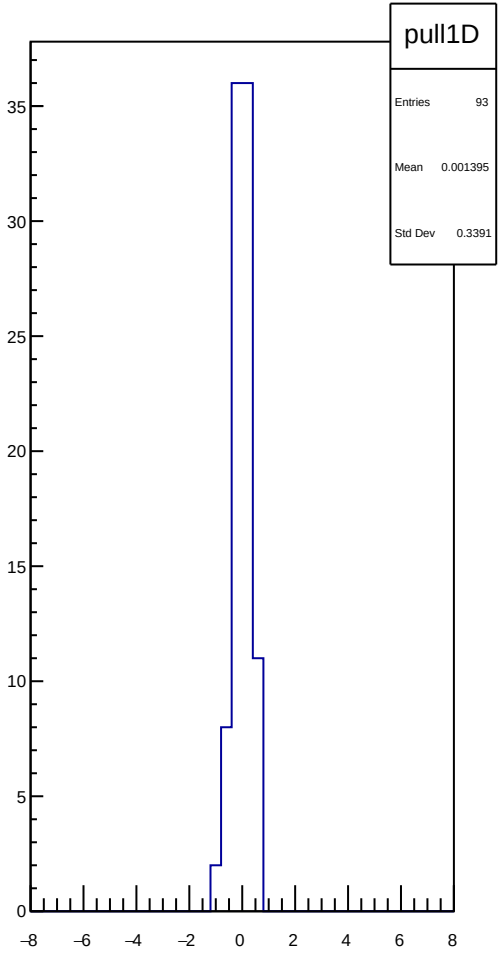

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.147 / 92
p0 −0.4096 ± 0.03979
pull
Entries 93
Mean −334.4
Std Dev 0
pull1D
Entries 93
Mean −0.006787
Std Dev 0.3135

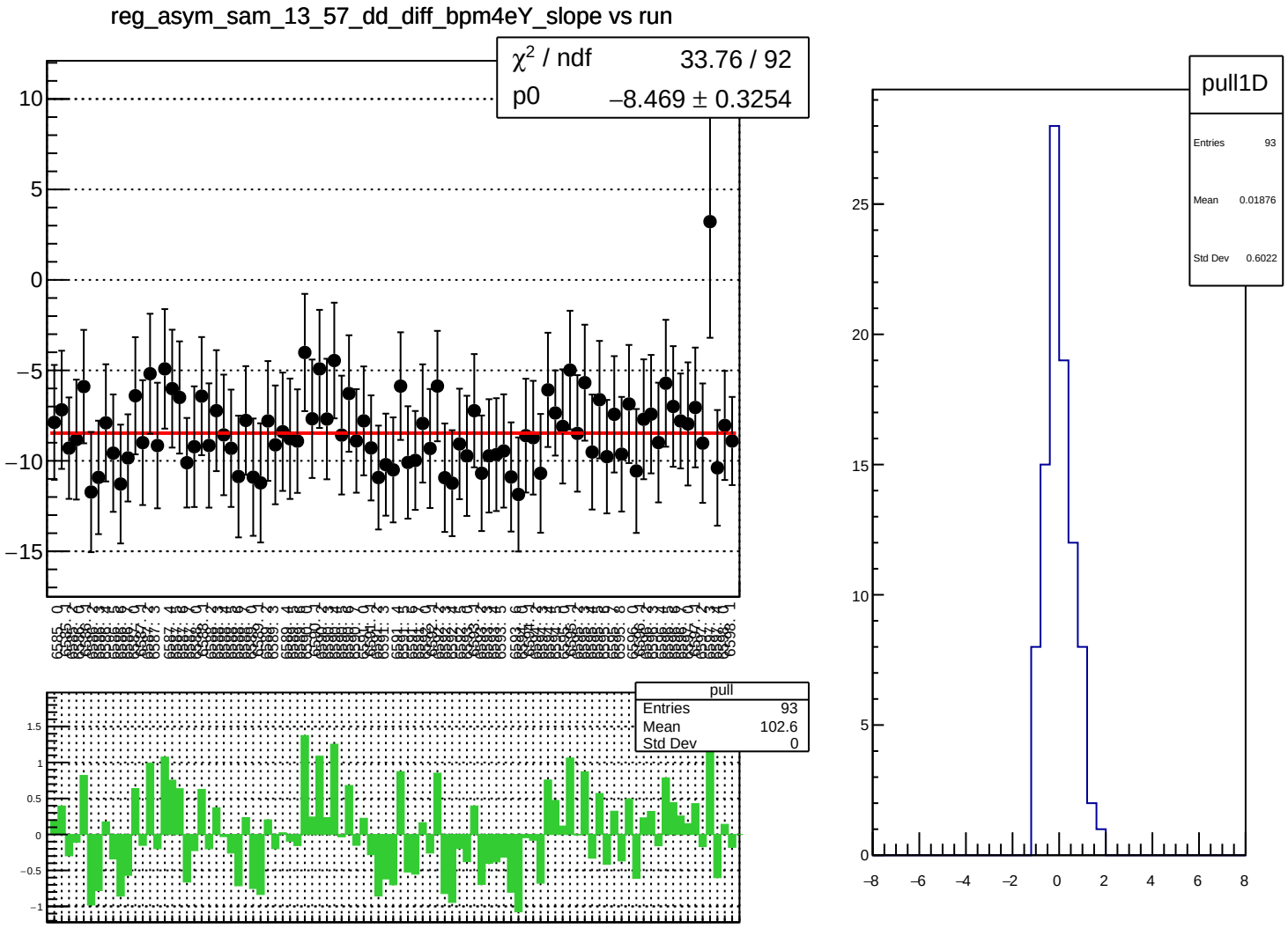

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 9.533 / 92
p0 −15.2 ± 0.3737
pull
Entries 93
Mean 298.8
Std Dev 0

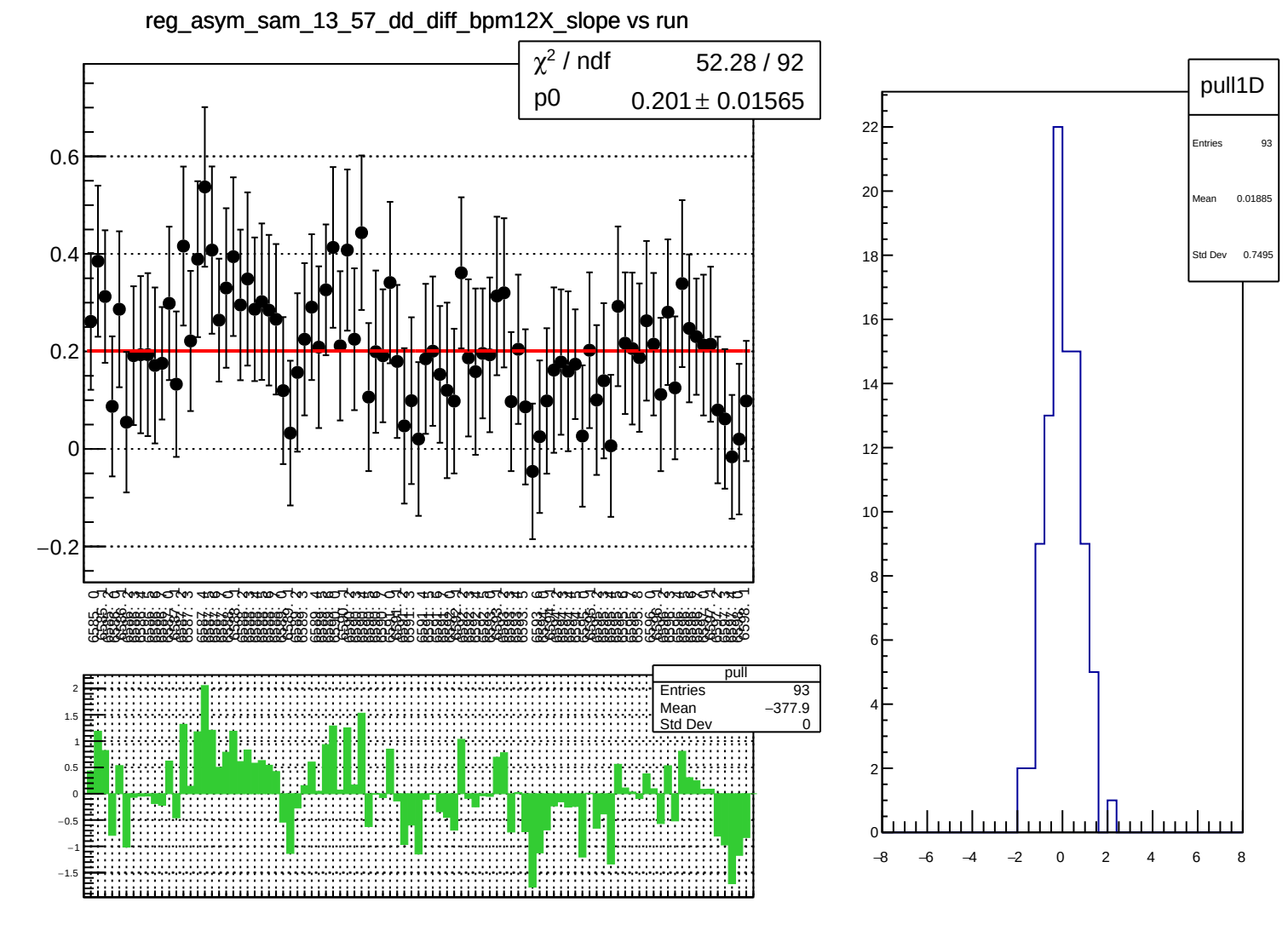

pull1D
Entries 93
Mean 0.0075
Std Dev 0.3201

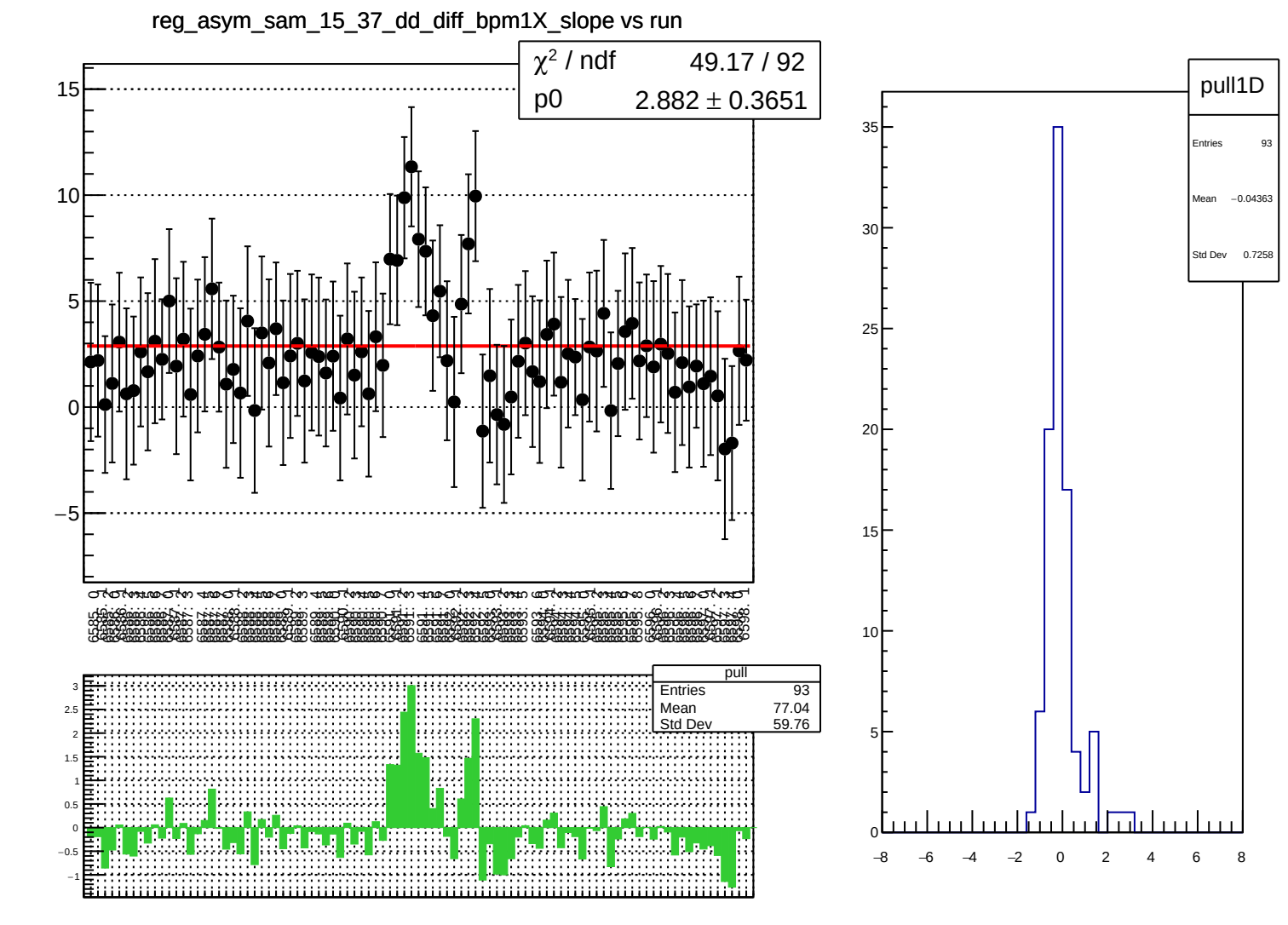

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.42 / 92
p0 −31.26 ± 0.2738
−25
−30
−35
−40
−45
−50
pull
Entries 93
Mean 139.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01356
Std Dev 0.5016
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

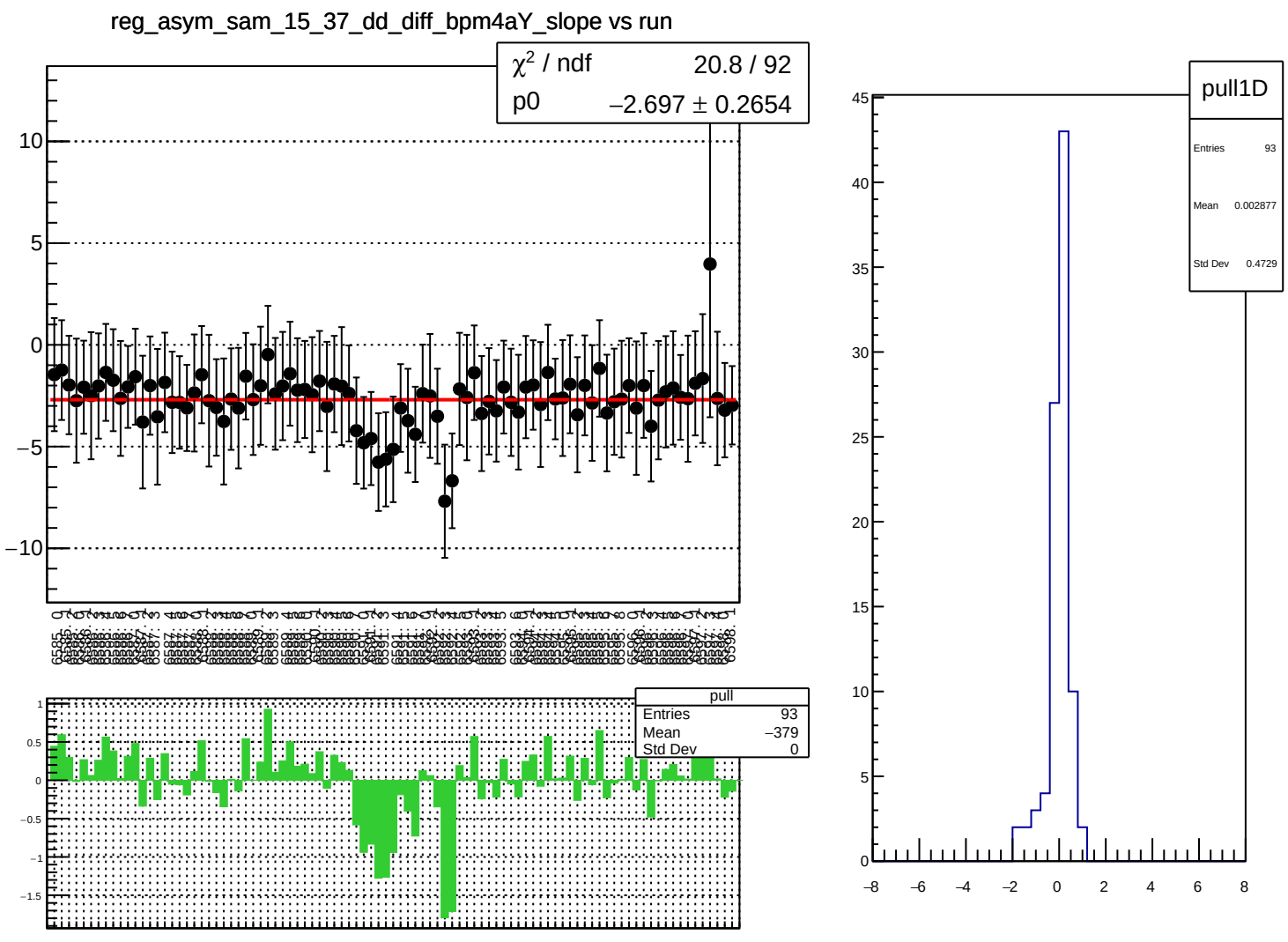

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.69 / 92
p0 −10.87 ± 0.3835
pull
Entries 93
Mean −2414
Std Dev 0

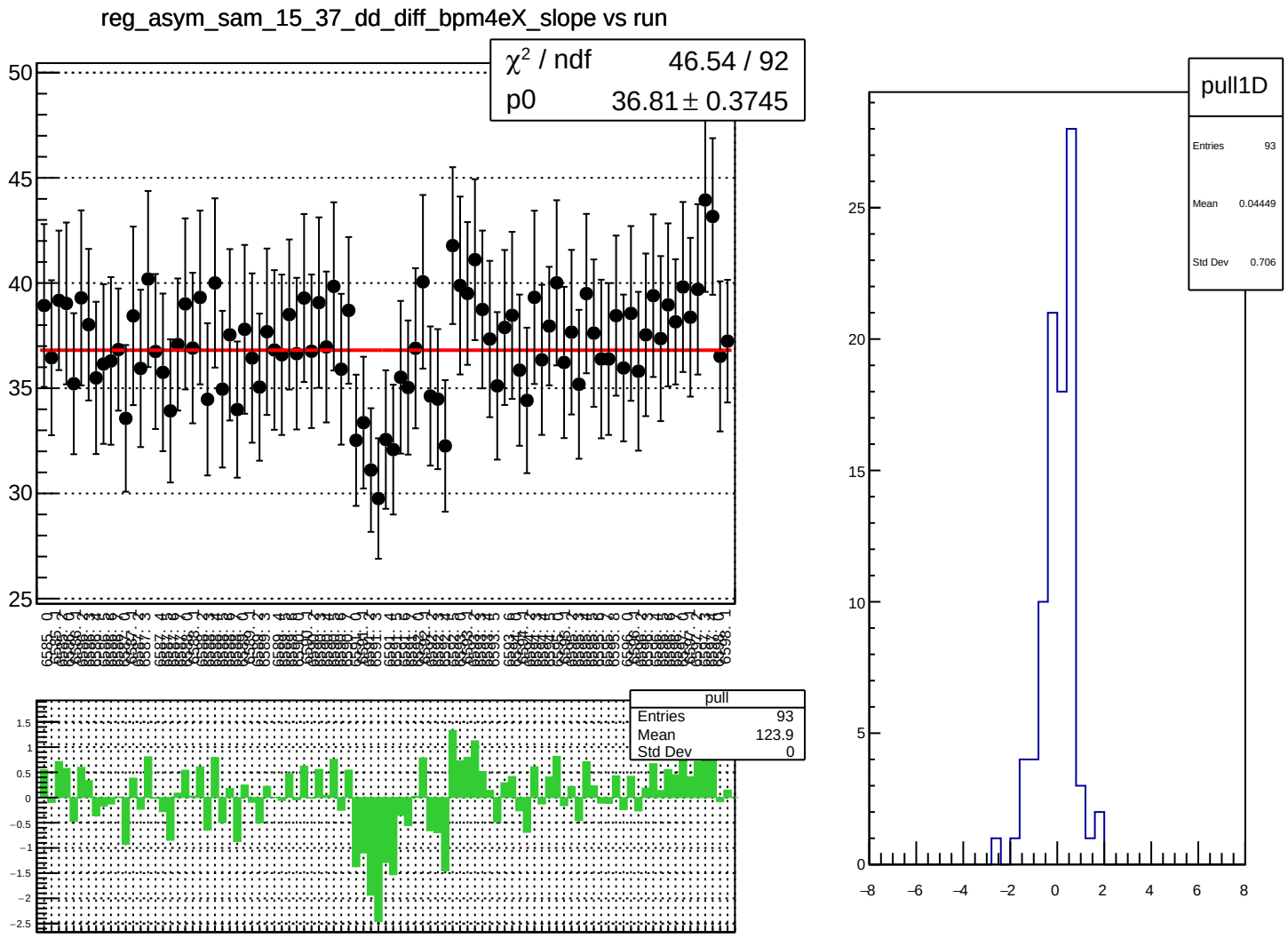

pull1D
Entries 93
Mean 0.001395
Std Dev 0.3391

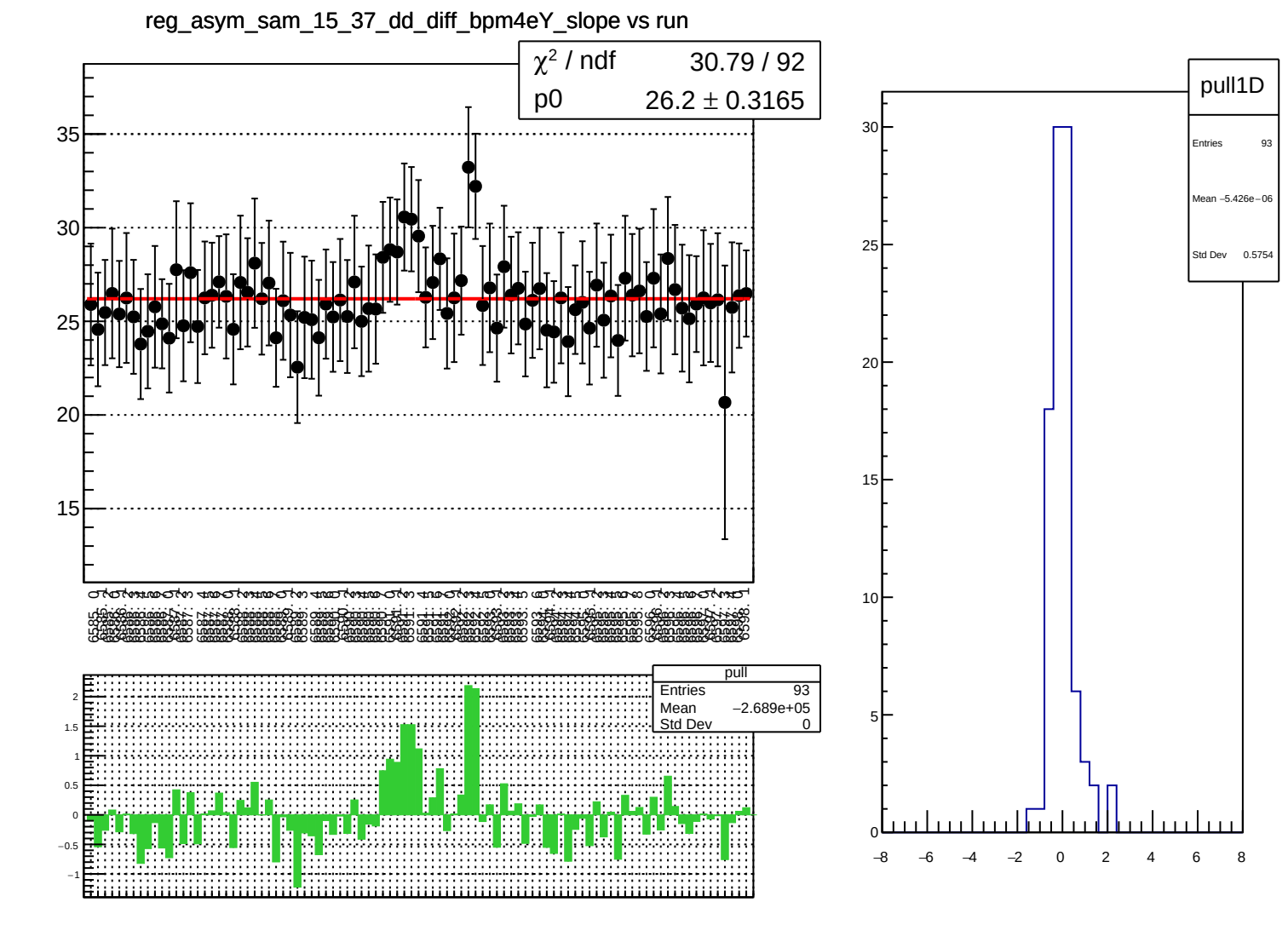

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.76 / 92
p0 −8.469 ± 0.3254
pull
Entries 93
Mean 102.6
Std Dev 0
pull1D
Entries 93
Mean 0.01876
Std Dev 0.6022

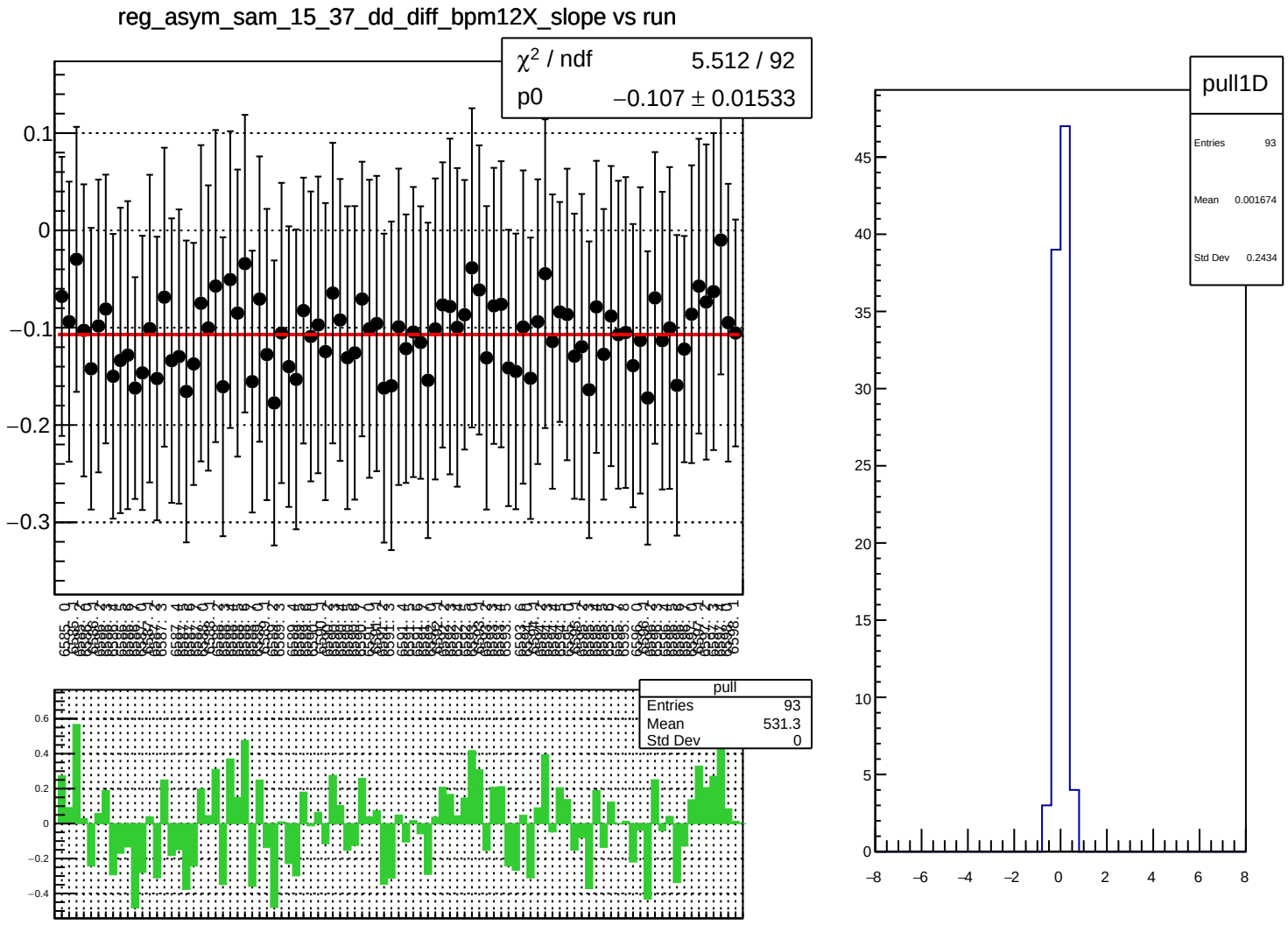

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 52.28 / 92
p0 0.201 ± 0.01565
pull
Entries 93
Mean −377.9
Std Dev 0
pull1D
Entries 93
Mean 0.01885
Std Dev 0.7495

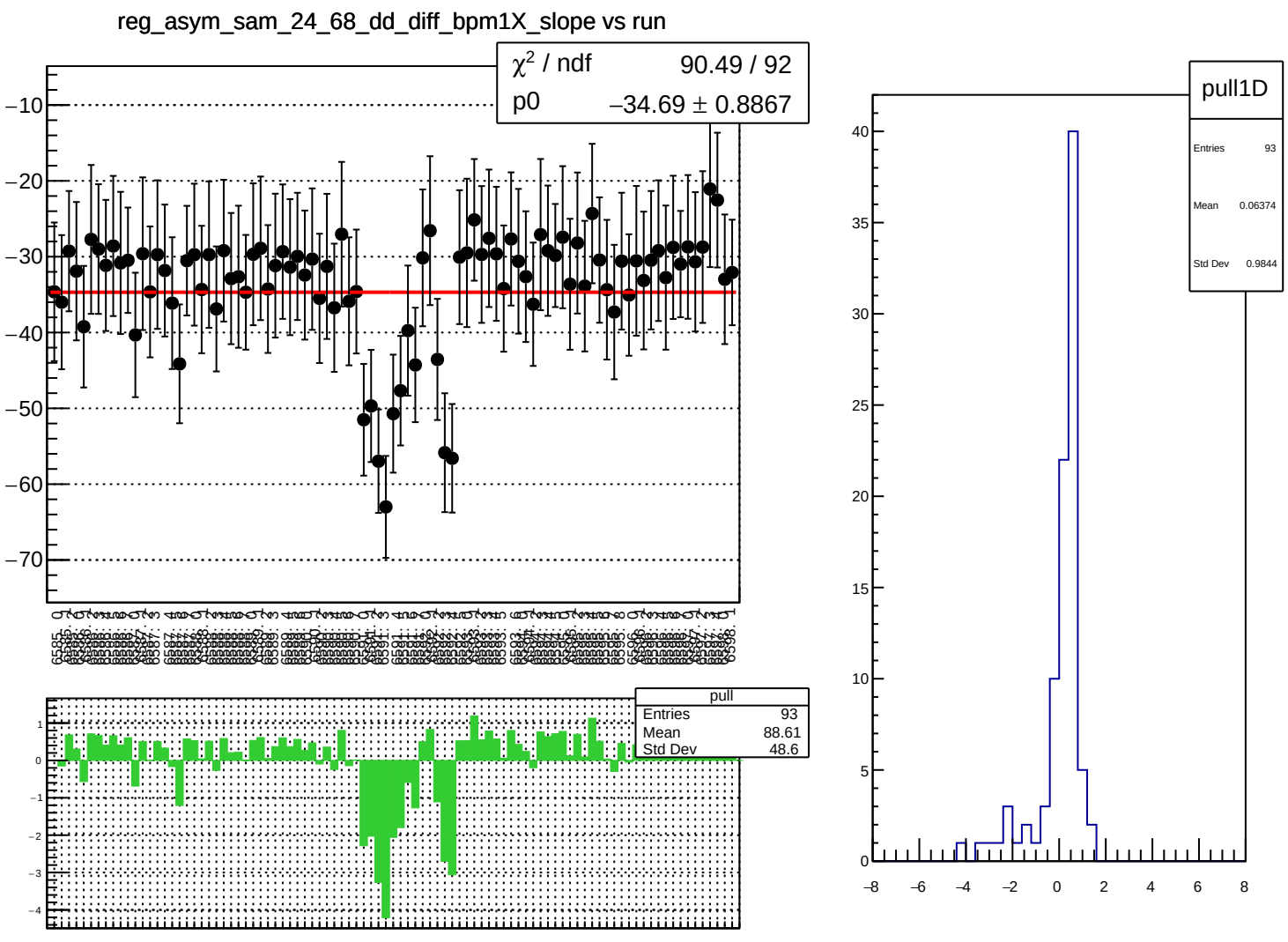

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 49.17 / 92
p0 2.882 ± 0.3651
pull
Entries 93
Mean 77.04
Std Dev 59.76
pull1D
Entries 93
Mean −0.04363
Std Dev 0.7258

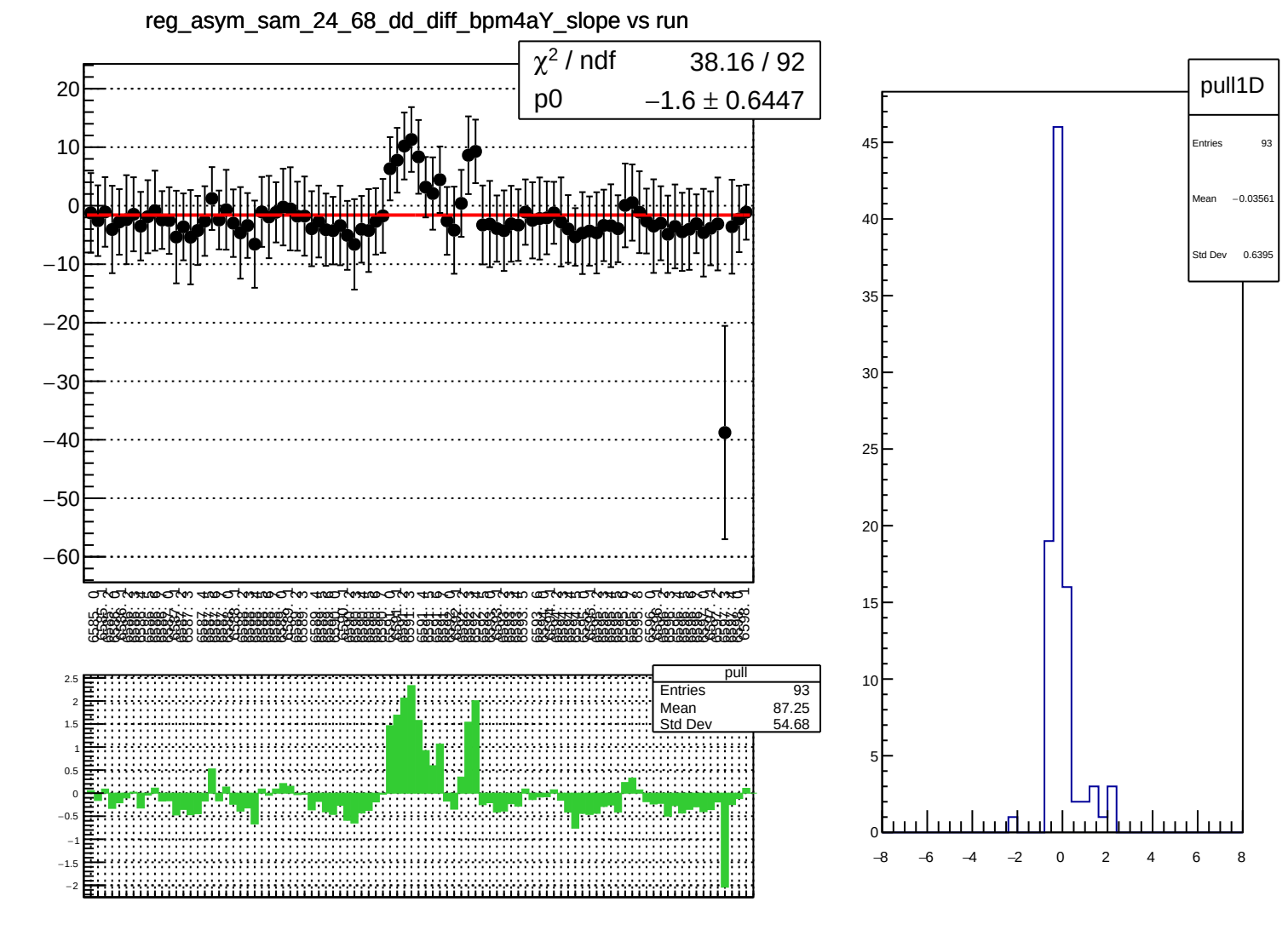

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.8 / 92
p0 −2.697 ± 0.2654
pull
Entries 93
Mean −379
Std Dev 0
pull1D
Entries 93
Mean 0.002877
Std Dev 0.4729

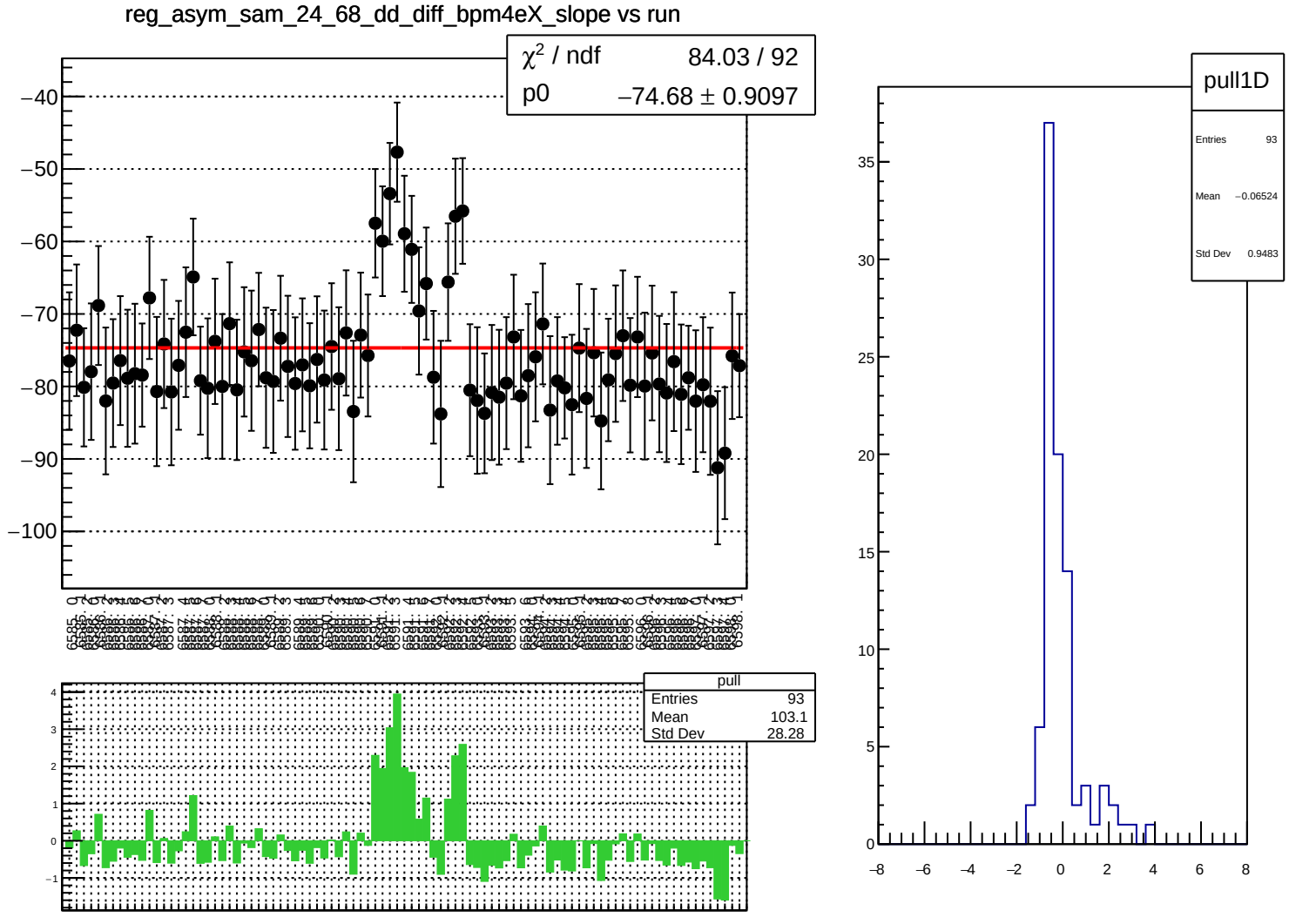

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.54 / 92
p0 36.81 ± 0.3745
pull
Entries 93
Mean 123.9
Std Dev 0
pull1D
Entries 93
Mean 0.04449
Std Dev 0.706

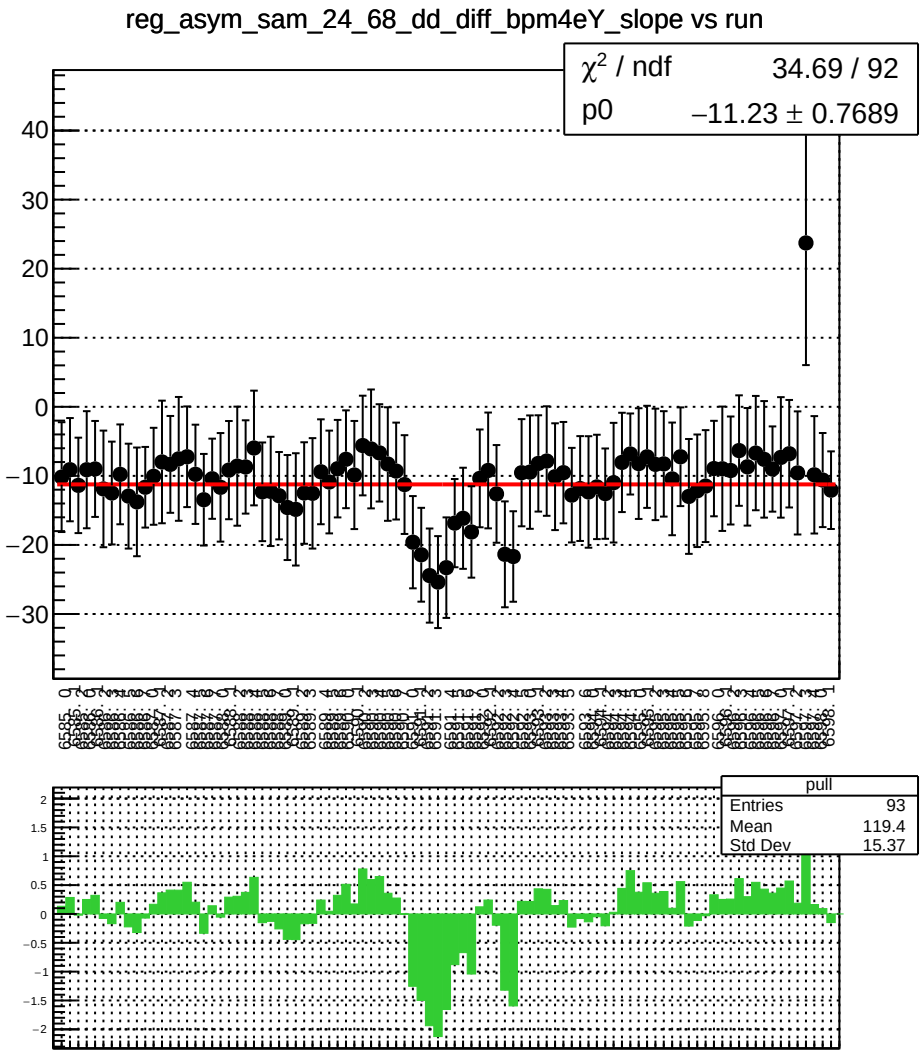

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.79 / 92
p0 26.2 ± 0.3165
pull
Entries 93
Mean −2.689e+05
Std Dev 0
pull1D
Entries 93
Mean −5.426e−06
Std Dev 0.5754

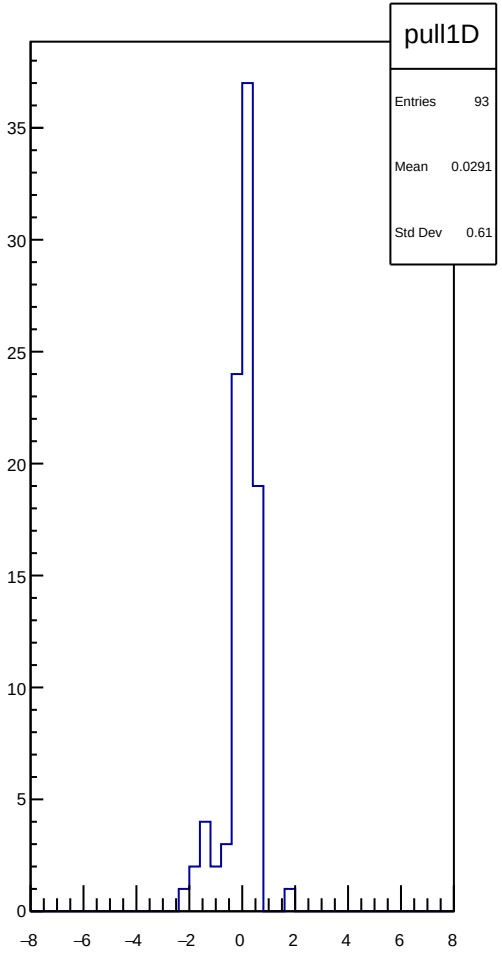

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.512 / 92
p0 −0.107 ± 0.01533
pull
Entries 93
Mean 531.3
Std Dev 0
pull1D
Entries 93
Mean 0.001674
Std Dev 0.2434

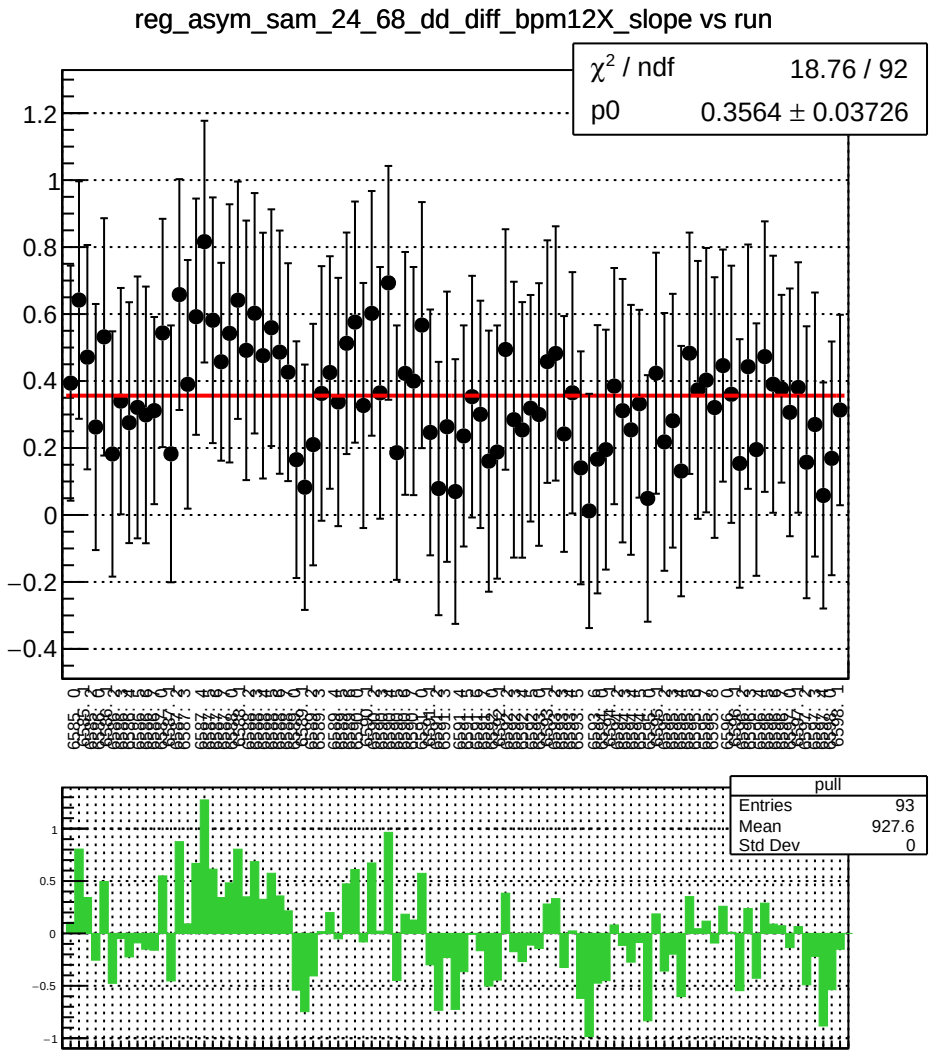

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 90.49 / 92
p0 −34.69 ± 0.8867
pull
Entries 93
Mean 88.61
Std Dev 48.6
pull1D
Entries 93
Mean 0.06374
Std Dev 0.9844

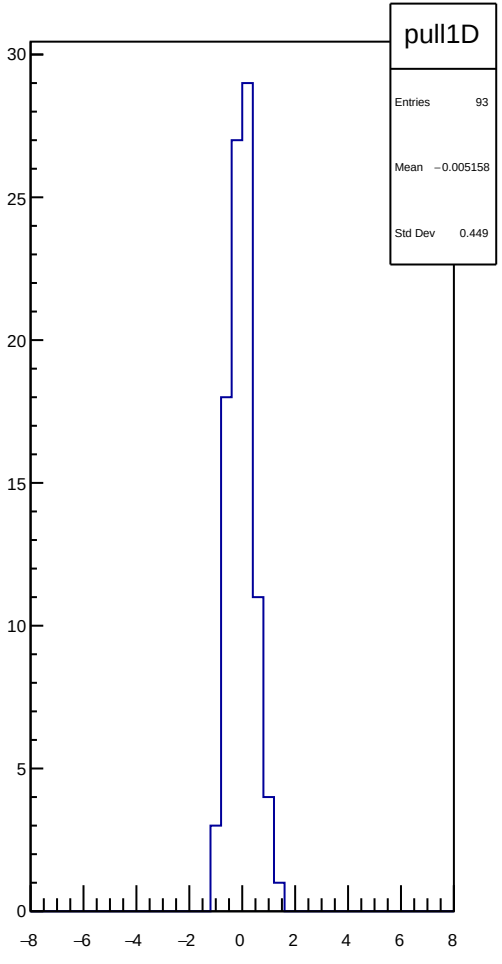

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.16 / 92
p0 −1.6 ± 0.6447
pull
Entries 93
Mean 87.25
Std Dev 54.68
pull1D
Entries 93
Mean −0.03561
Std Dev 0.6395

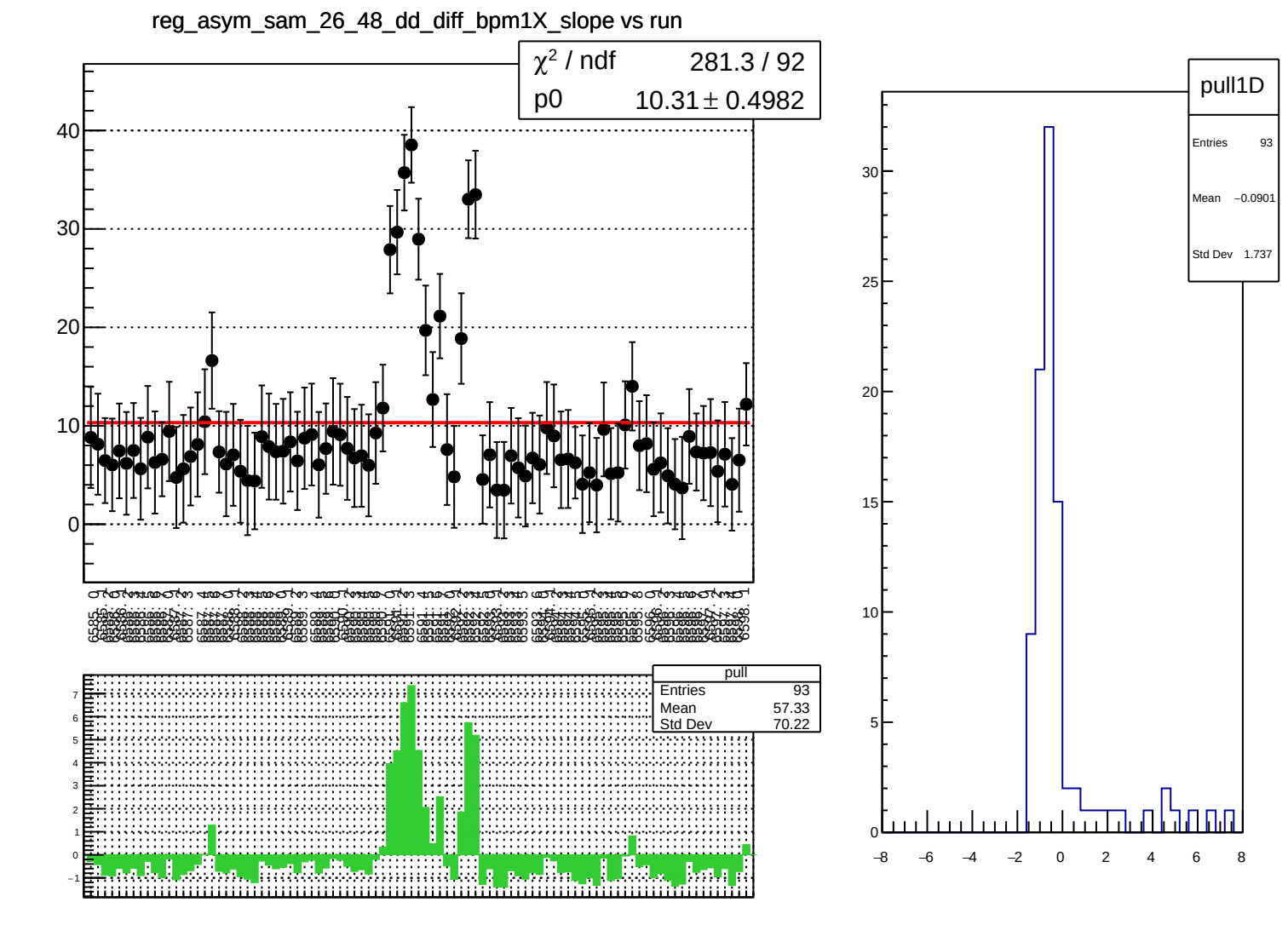

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.03 / 92
p0 −74.68 ± 0.9097
−40
−50
−60
−70
−80
−90
−100
pull
Entries 93
Mean 103.1
Std Dev 28.28
4
3
2
1
0
−1
pull1D
Entries 93
Mean −0.06524
Std Dev 0.9483
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

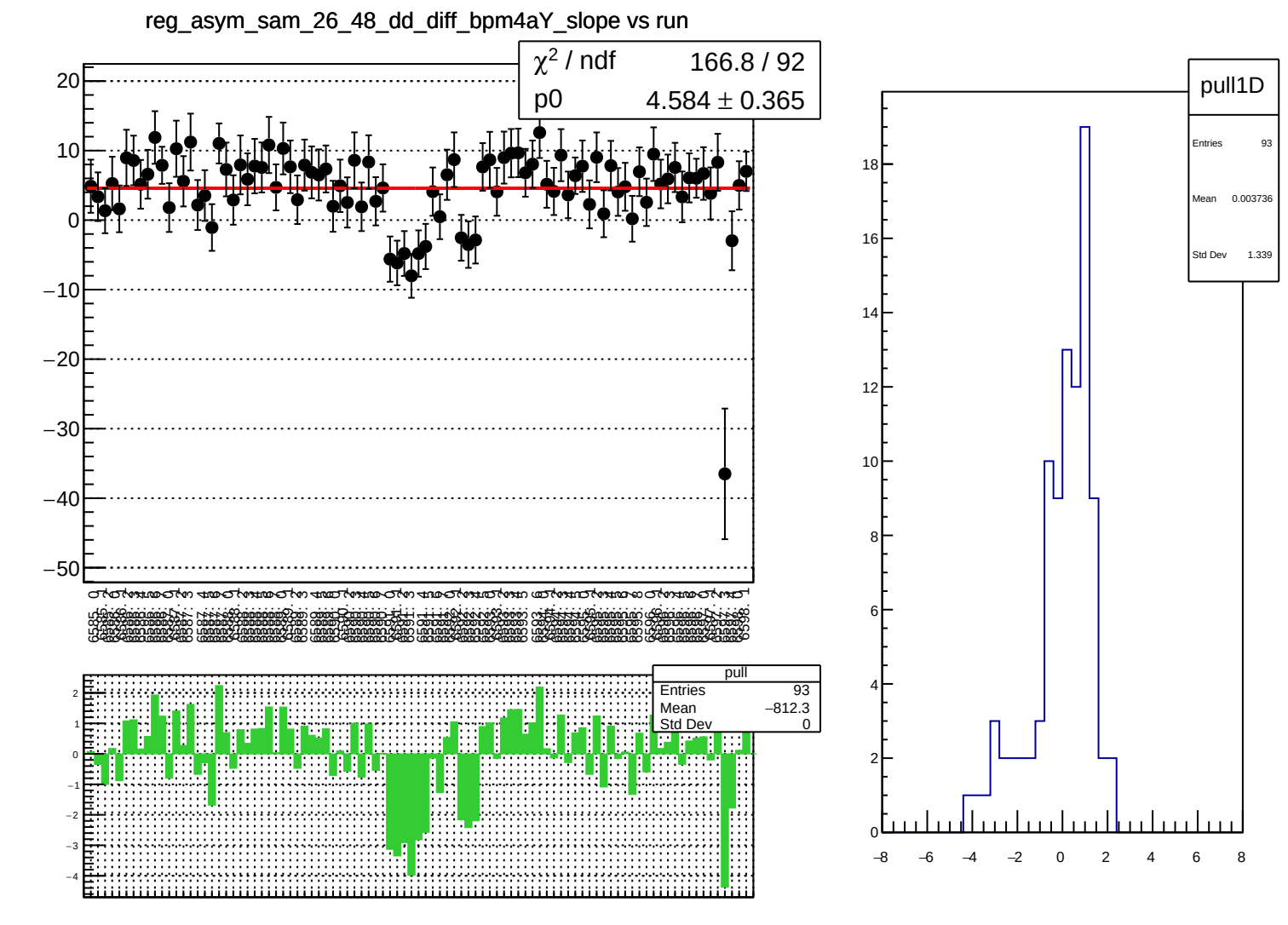

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.69 / 92
p0 −11.23 ± 0.7689
pull
Entries 93
Mean 119.4
Std Dev 15.37

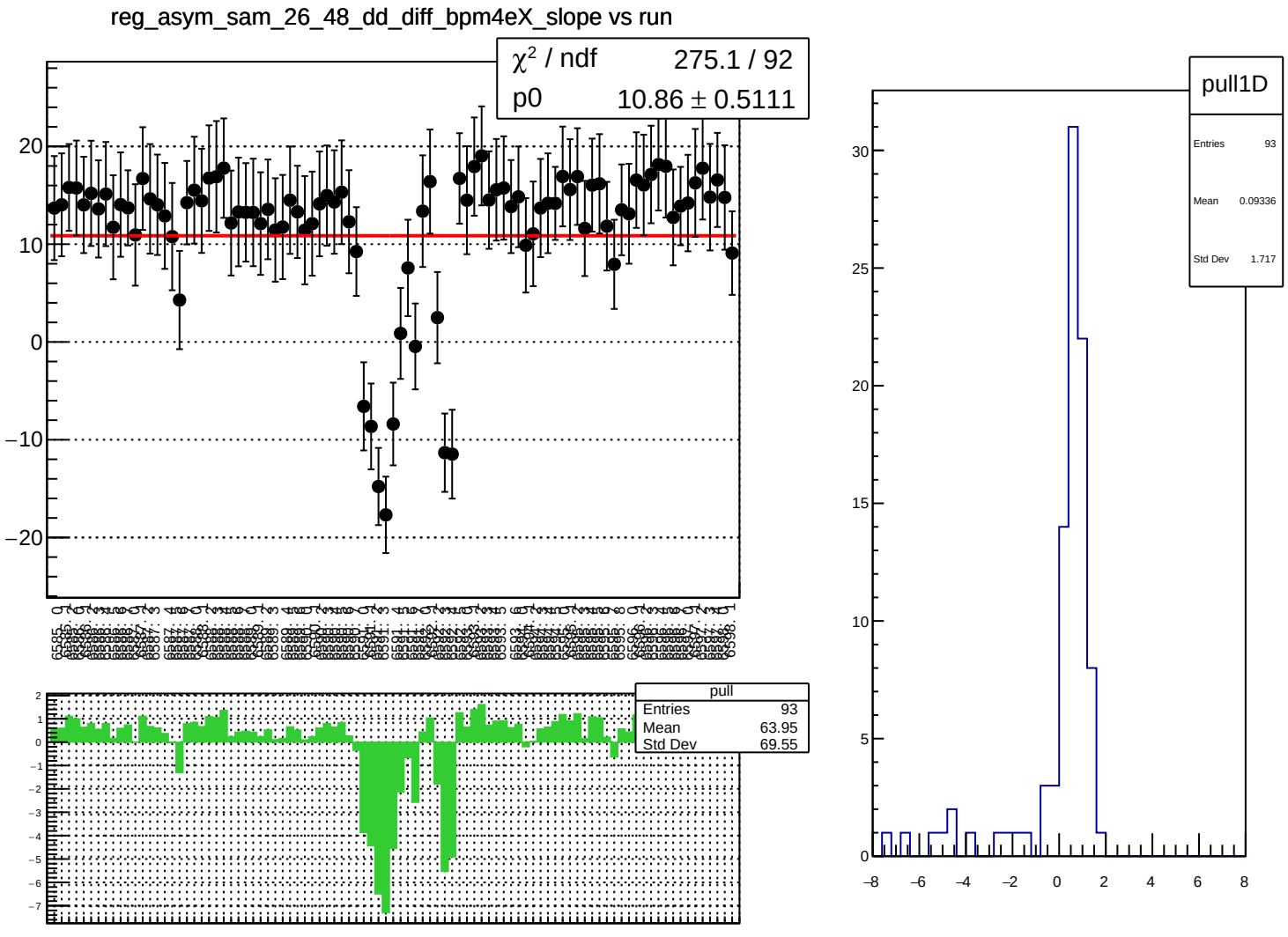

pull1D
Entries 93
Mean 0.0291
Std Dev 0.61

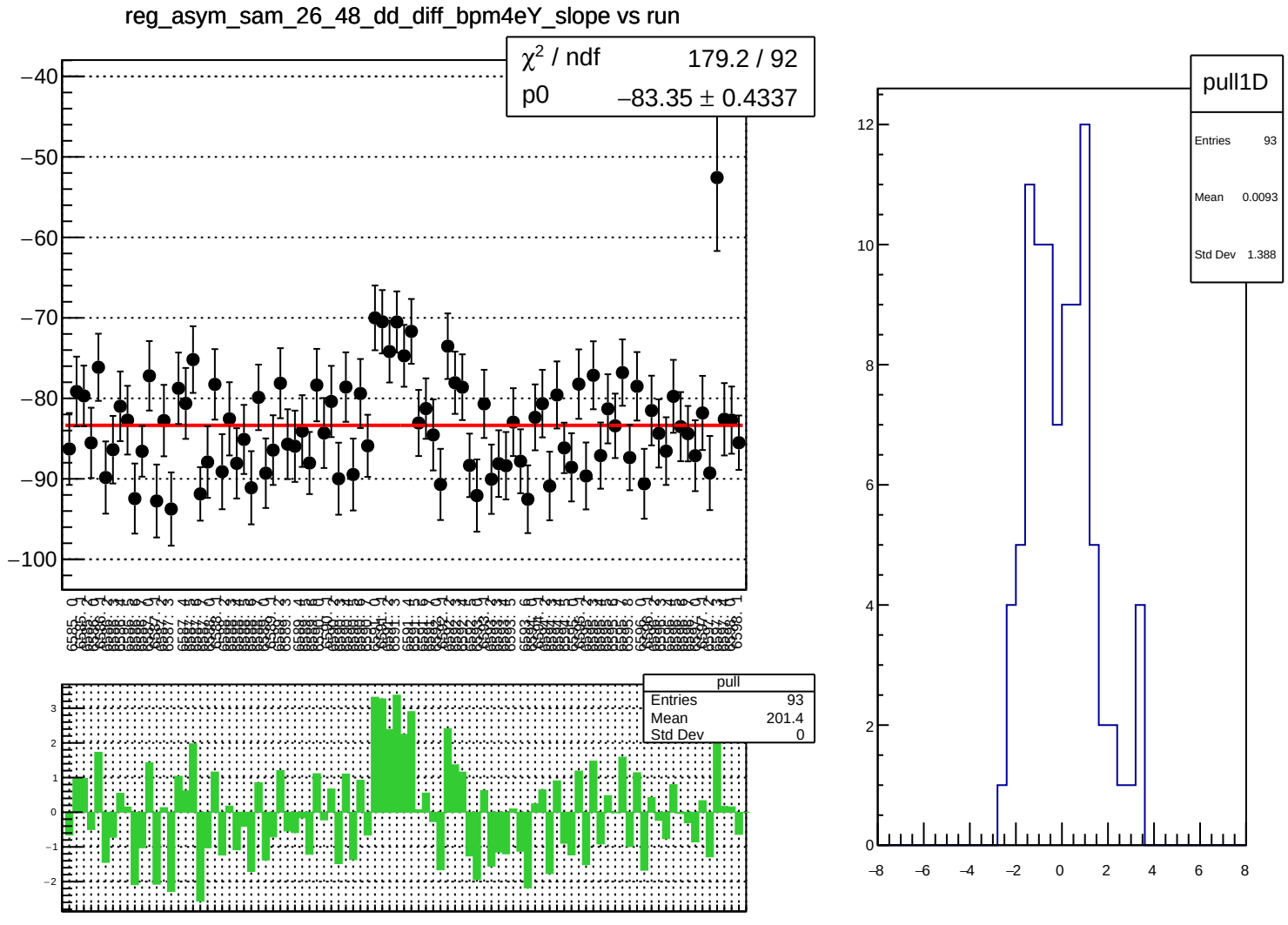

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 18.76 / 92
p0 0.3564 ± 0.03726
pull
Entries 93
Mean 927.6
Std Dev 0

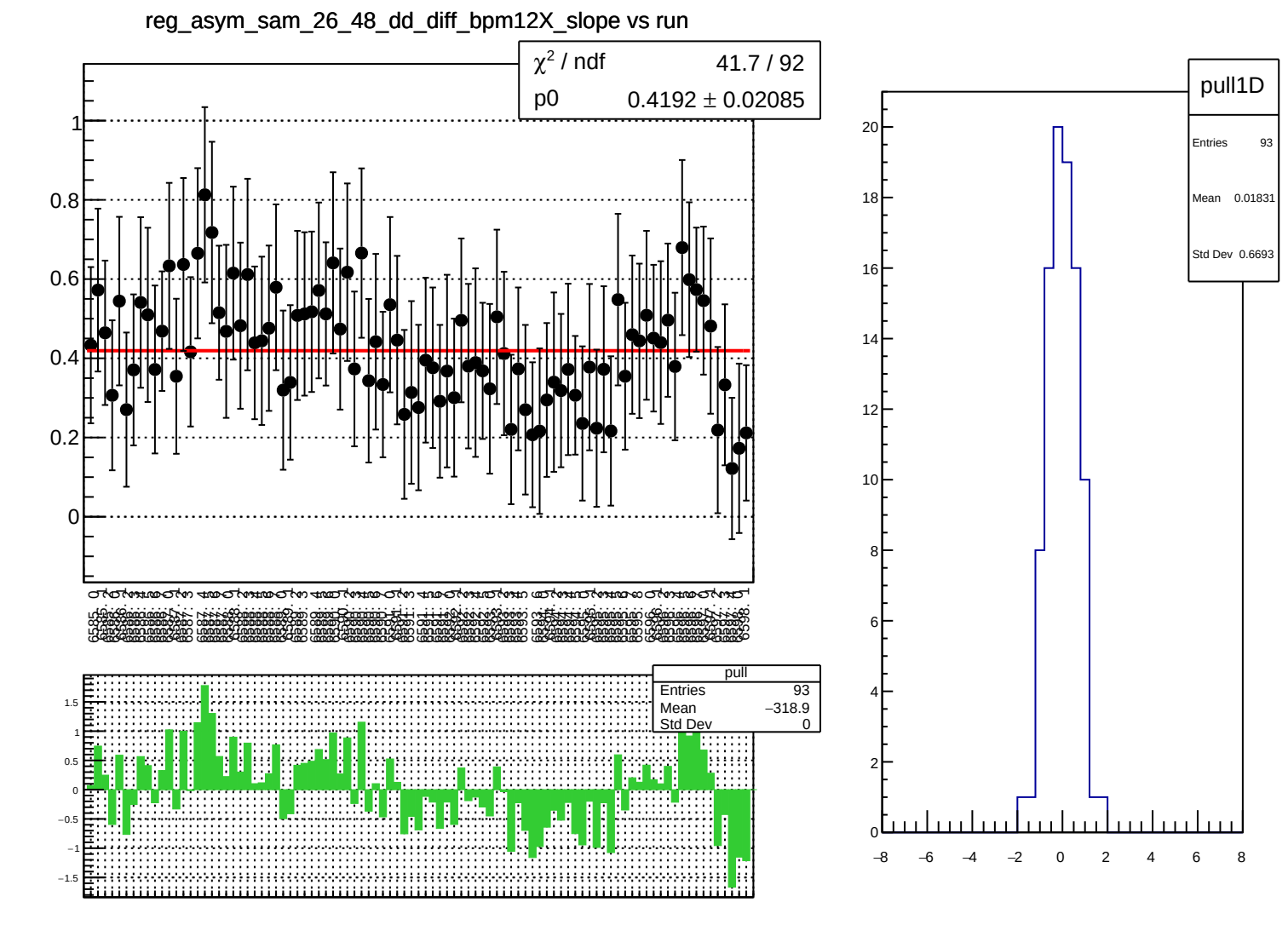

pull1D
Entries 93
Mean −0.005158
Std Dev 0.449

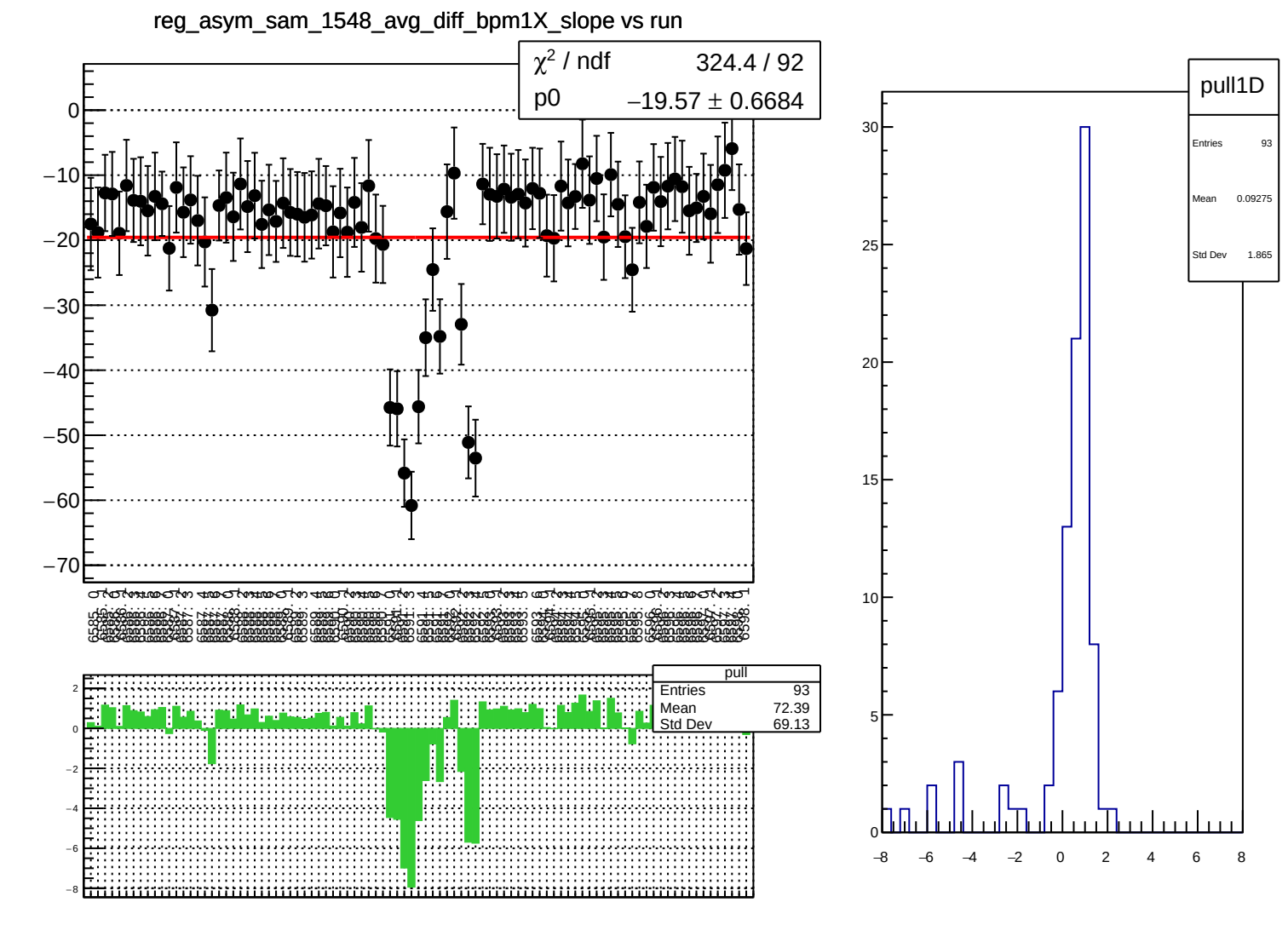

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 281.3 / 92
p0 10.31 ± 0.4982
pull
Entries 93
Mean 57.33
Std Dev 70.22
pull1D
Entries 93
Mean −0.0901
Std Dev 1.737

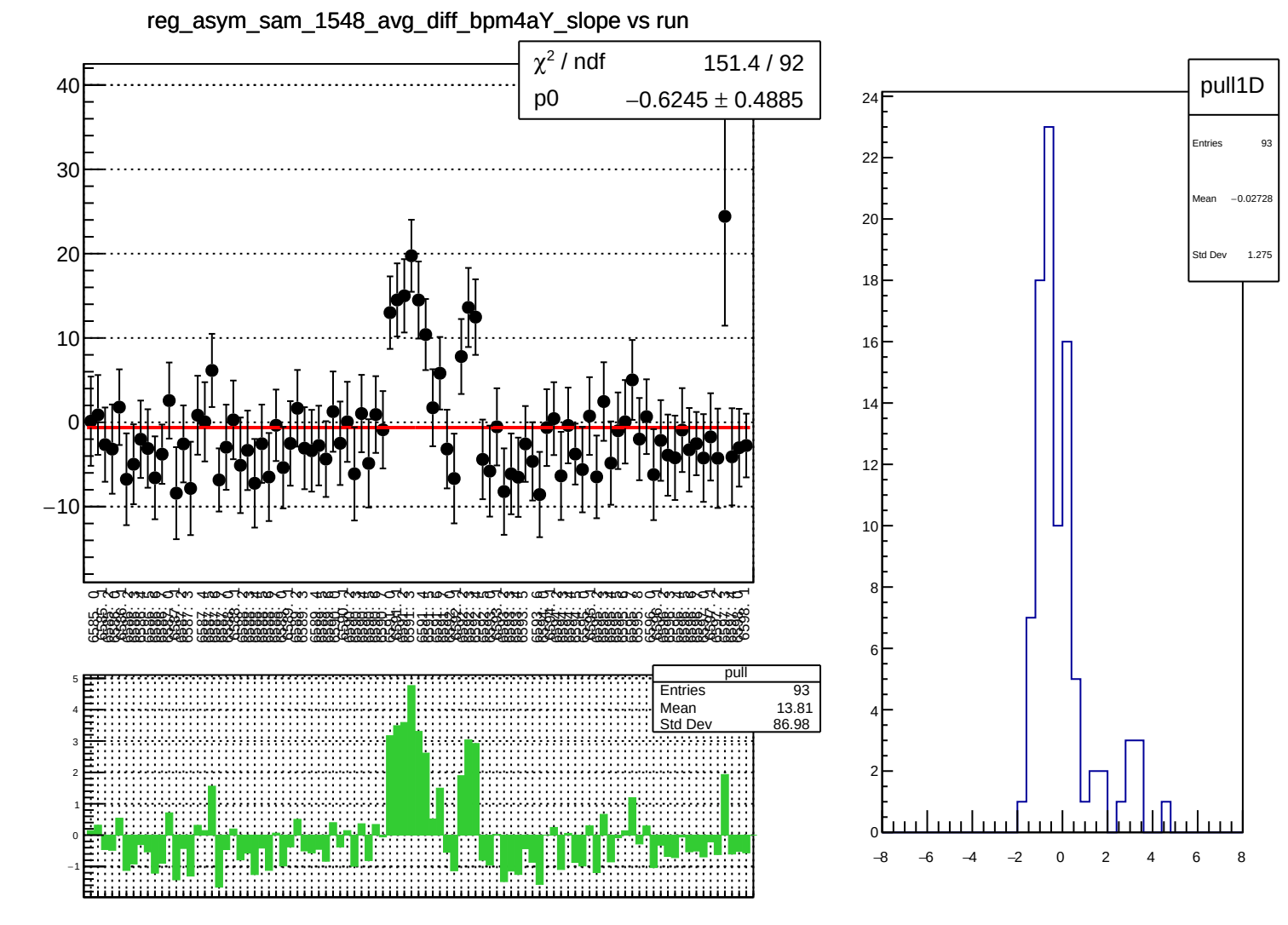

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 166.8 / 92
p0 4.584 ± 0.365
pull
Entries 93
Mean −812.3
Std Dev 0
pull1D
Entries 93
Mean 0.003736
Std Dev 1.339

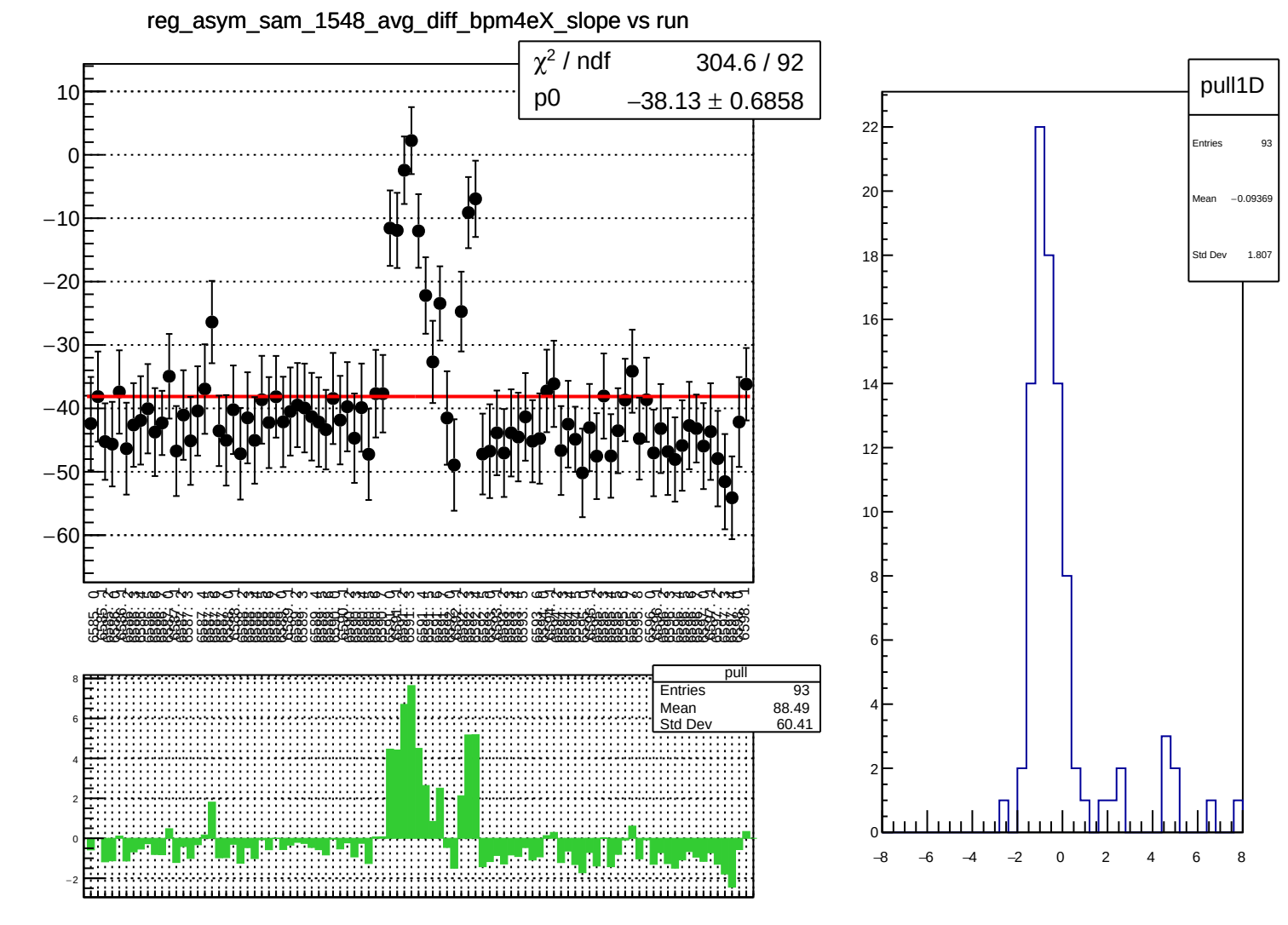

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 275.1 / 92
p0 10.86 ± 0.5111
20
10
0
−10
−20
pull
Entries 93
Mean 63.95
Std Dev 69.55
2
1
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 93
Mean 0.09336
Std Dev 1.717
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

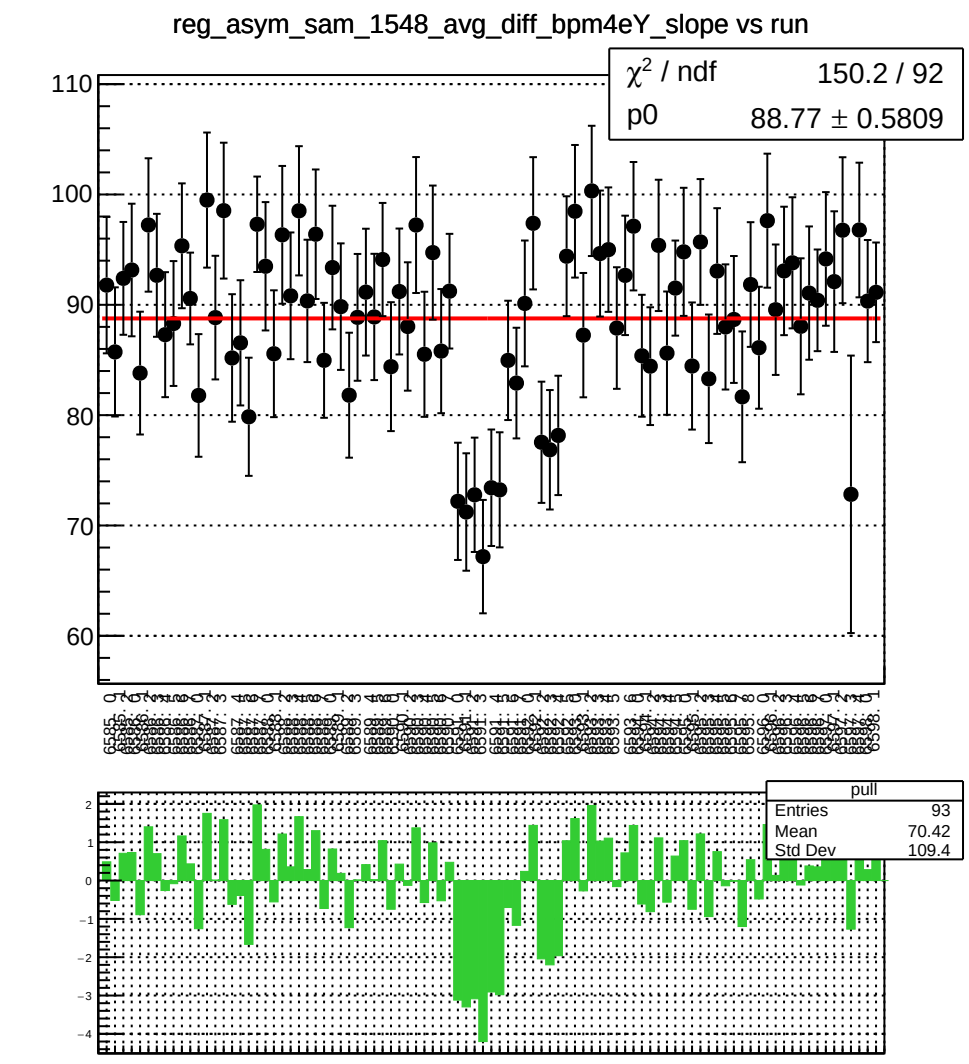

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 179.2 / 92
p0 −83.35 ± 0.4337
pull
Entries 93
Mean 201.4
Std Dev 0
pull1D
Entries 93
Mean 0.0093
Std Dev 1.388

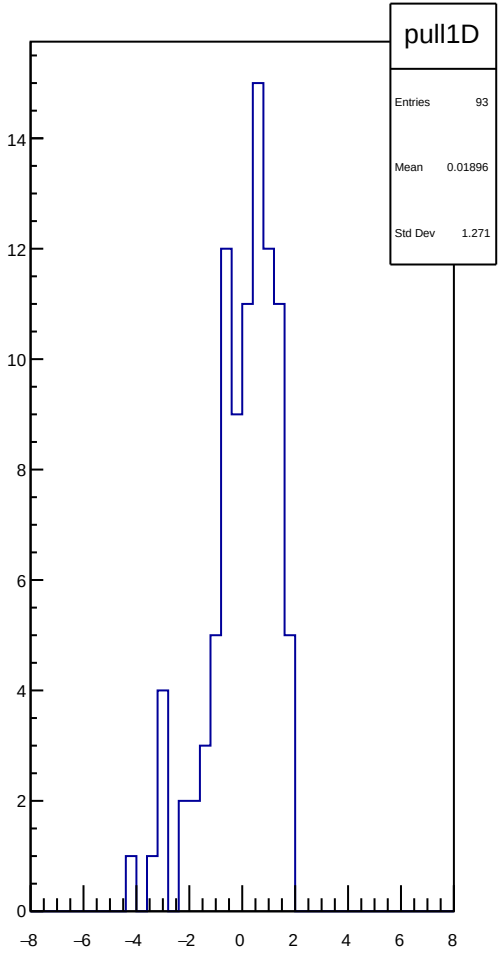

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 41.7 / 92
p0 0.4192 ± 0.02085
pull
Entries 93
Mean −318.9
Std Dev 0
pull1D
Entries 93
Mean 0.01831
Std Dev 0.6693

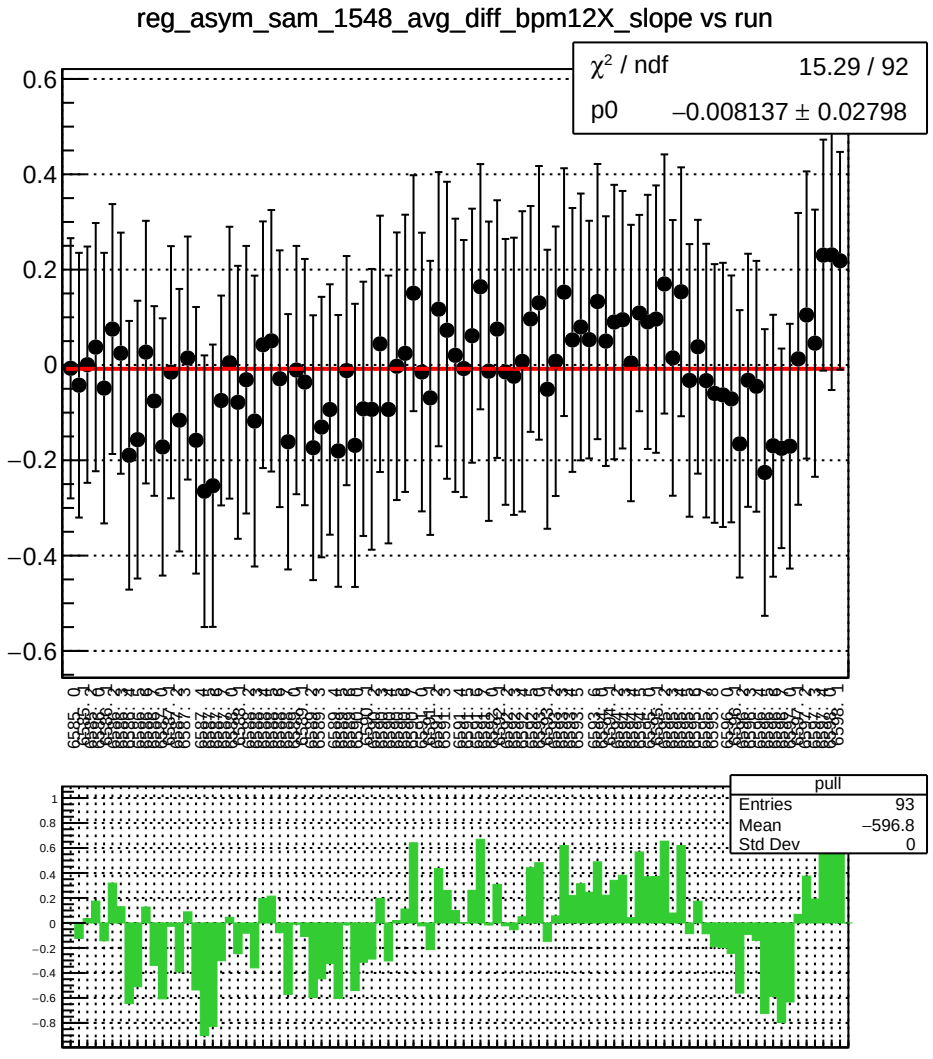

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 324.4 / 92
p0 −19.57 ± 0.6684
pull
Entries 93
Mean 72.39
Std Dev 69.13
pull1D
Entries 93
Mean 0.09275
Std Dev 1.865

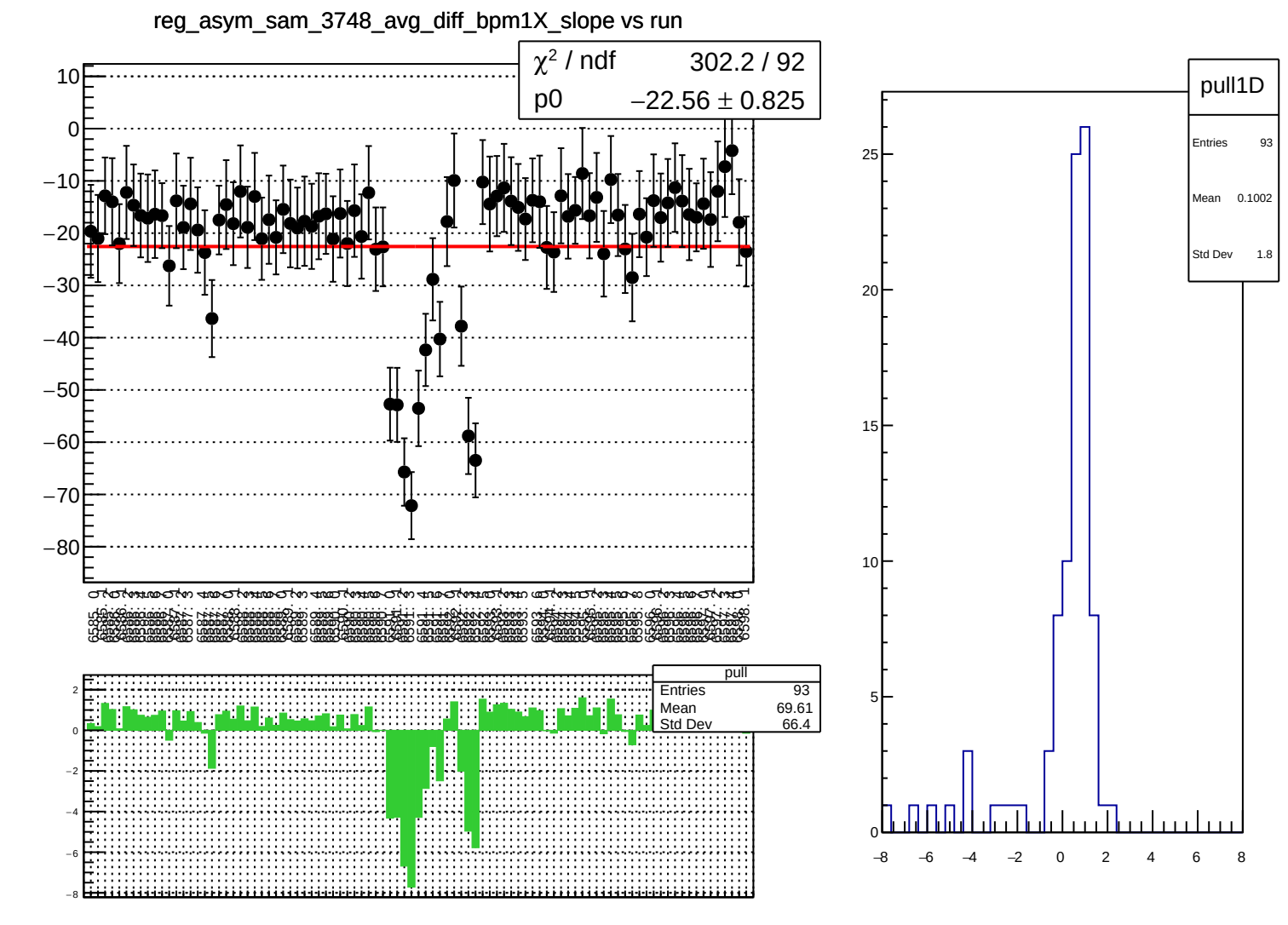

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 151.4 / 92
p0 −0.6245 ± 0.4885
pull
Entries 93
Mean 13.81
Std Dev 86.98
pull1D
Entries 93
Mean −0.02728
Std Dev 1.275

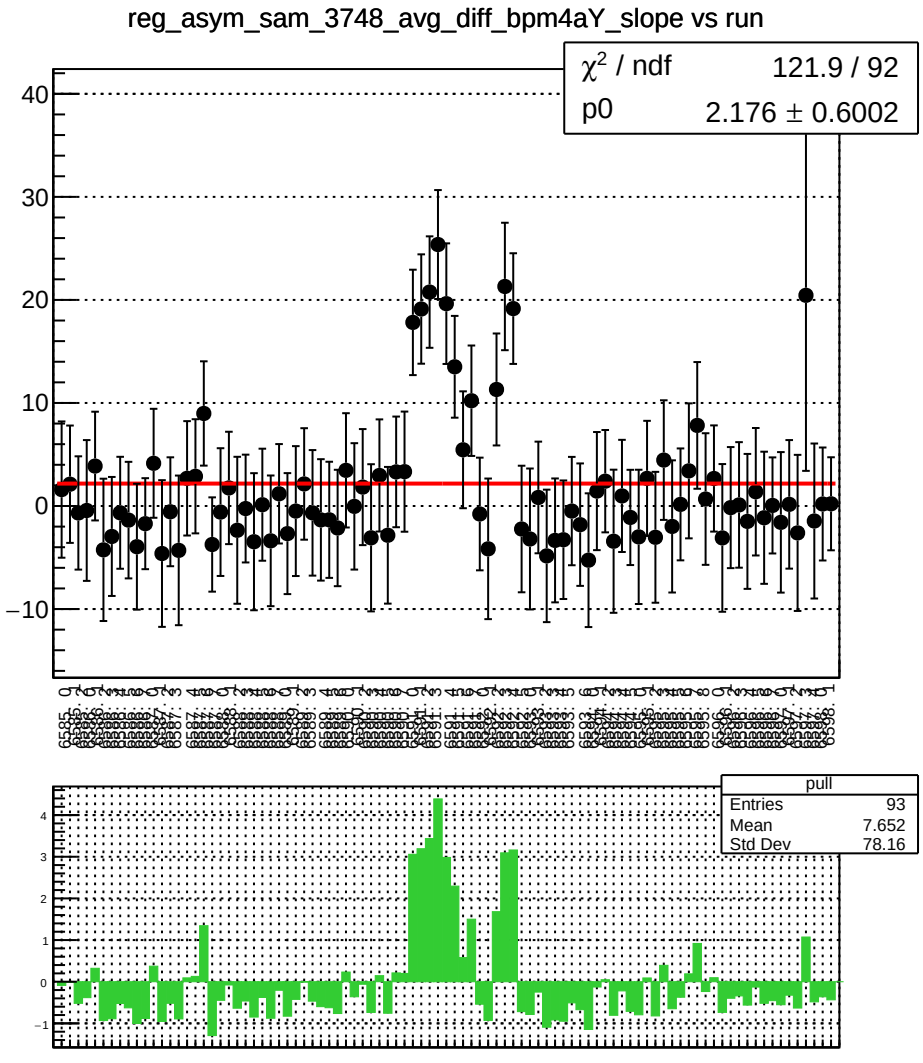

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 304.6 / 92
p0 −38.13 ± 0.6858
pull
Entries 93
Mean 88.49
Std Dev 60.41
pull1D
Entries 93
Mean −0.09369
Std Dev 1.807

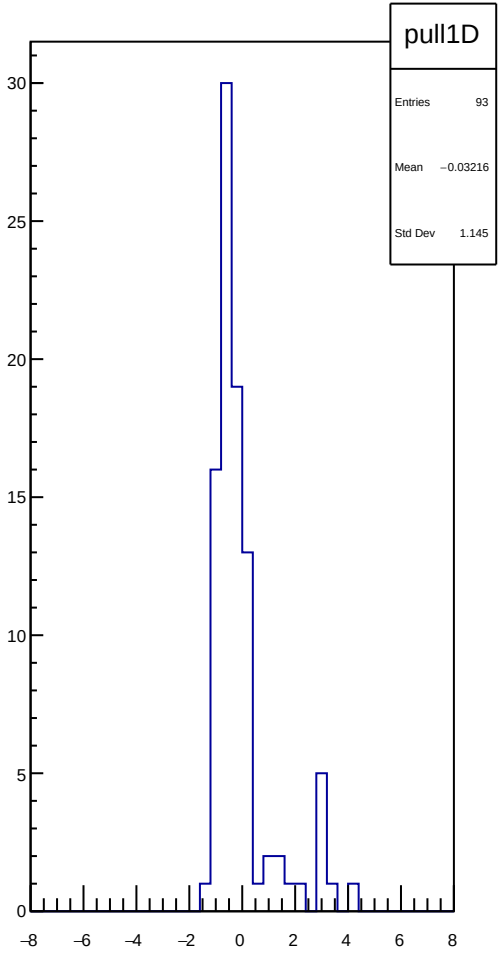

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 150.2 / 92
p0 88.77 ± 0.5809
pull
Entries 93
Mean 70.42
Std Dev 109.4

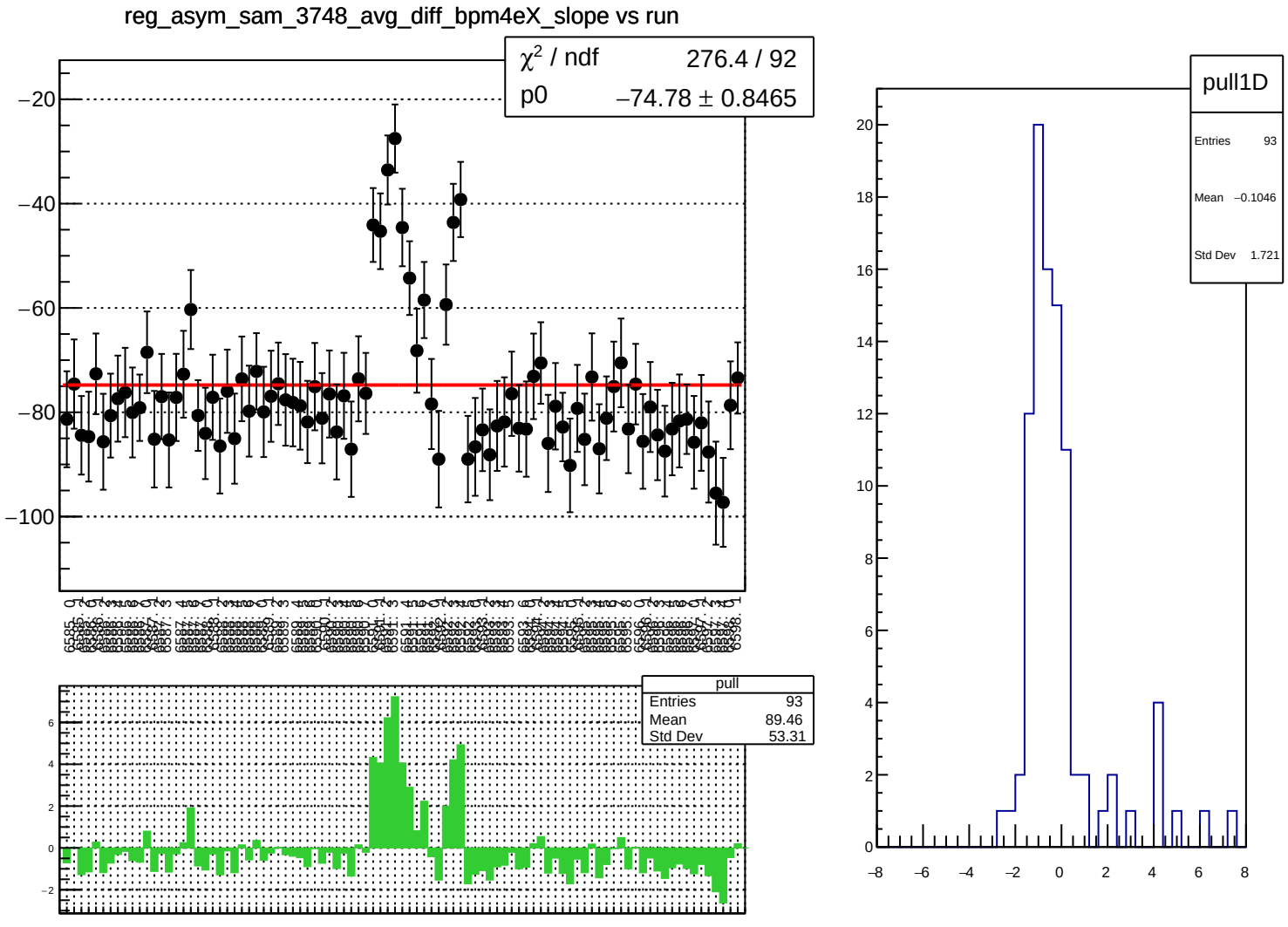

pull1D
Entries 93
Mean 0.01896
Std Dev 1.271

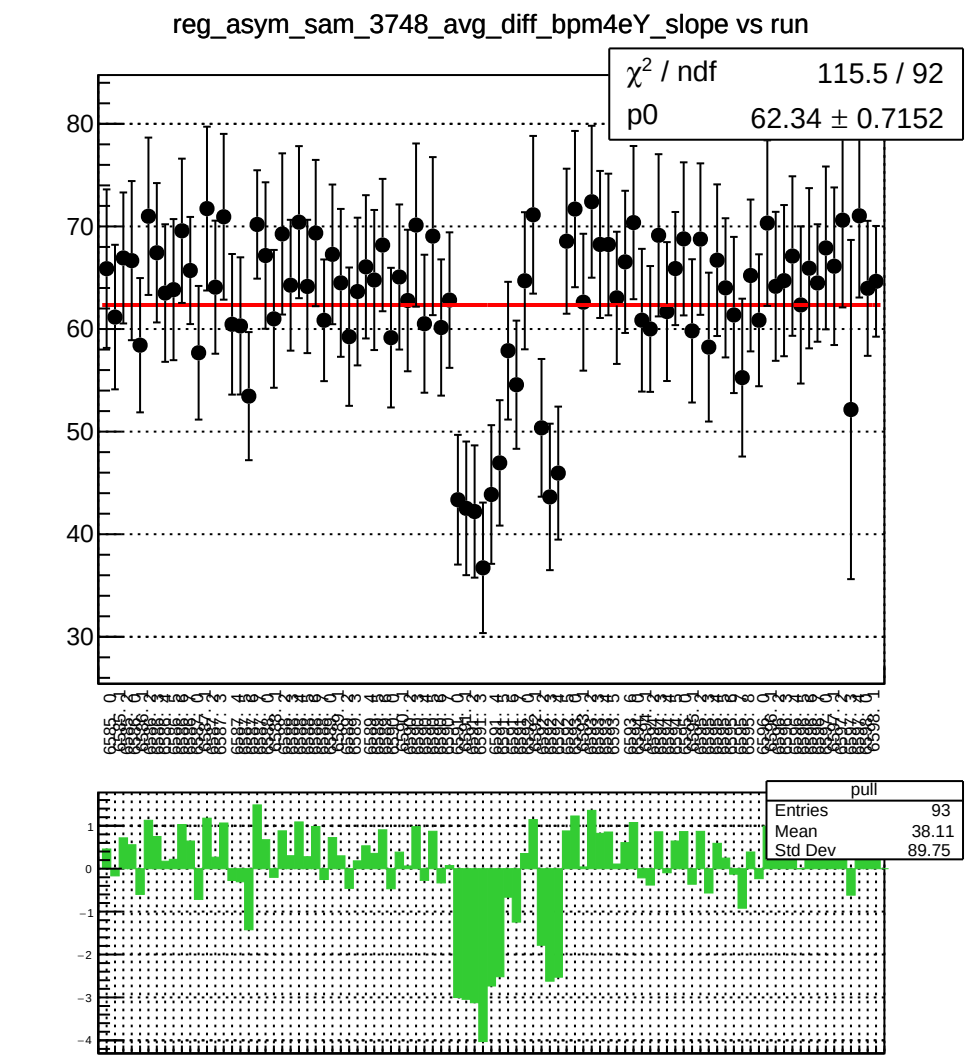

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 15.29 / 92
p0 −0.008137 ± 0.02798
pull
Entries 93
Mean −596.8
Std Dev 0
pull1D
Entries 93
Mean −0.005528
Std Dev 0.4054

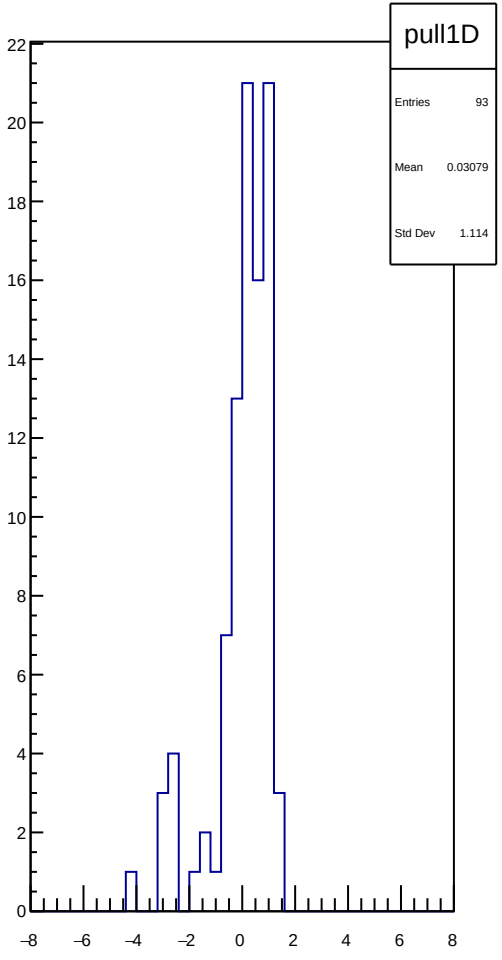

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 302.2 / 92
p0 −22.56 ± 0.825
pull
Entries 93
Mean 69.61
Std Dev 66.4
pull1D
Entries 93
Mean 0.1002
Std Dev 1.8

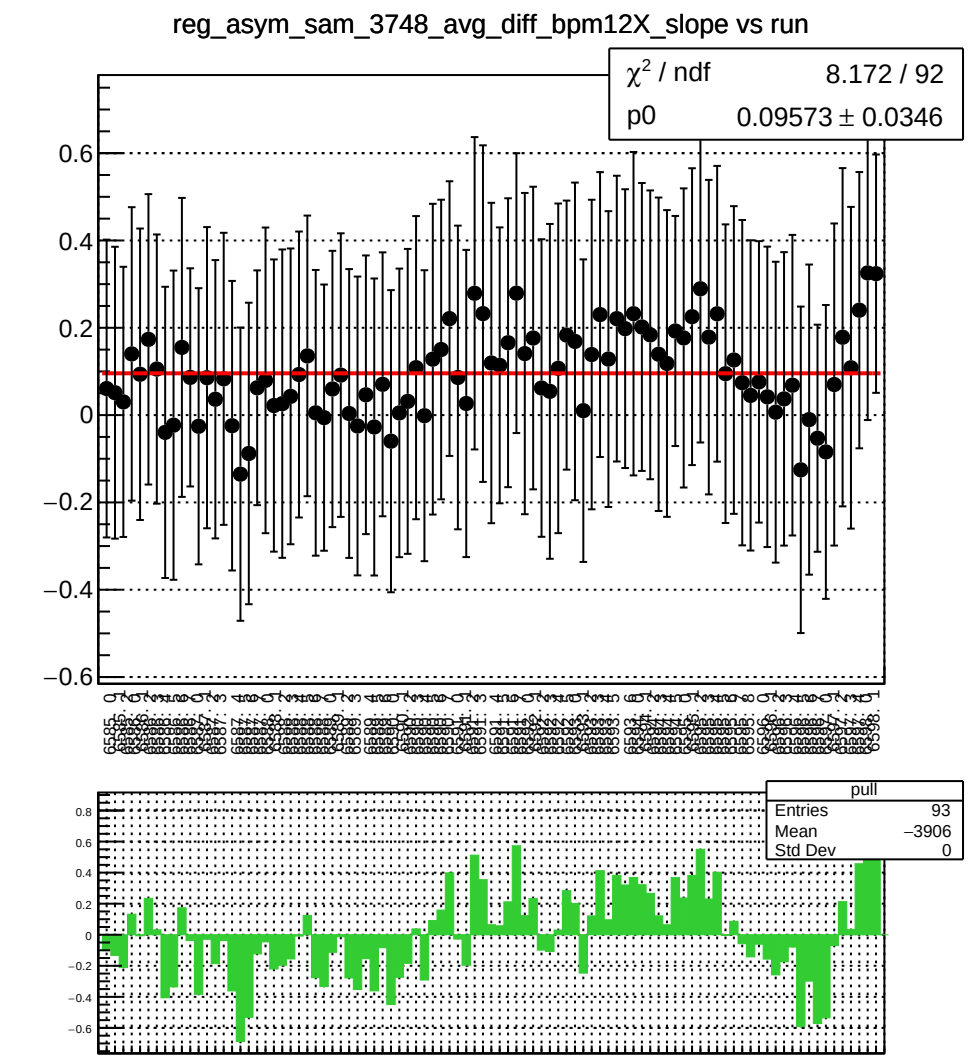

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 121.9 / 92
p0 2.176 ± 0.6002
pull
Entries 93
Mean 7.652
Std Dev 78.16

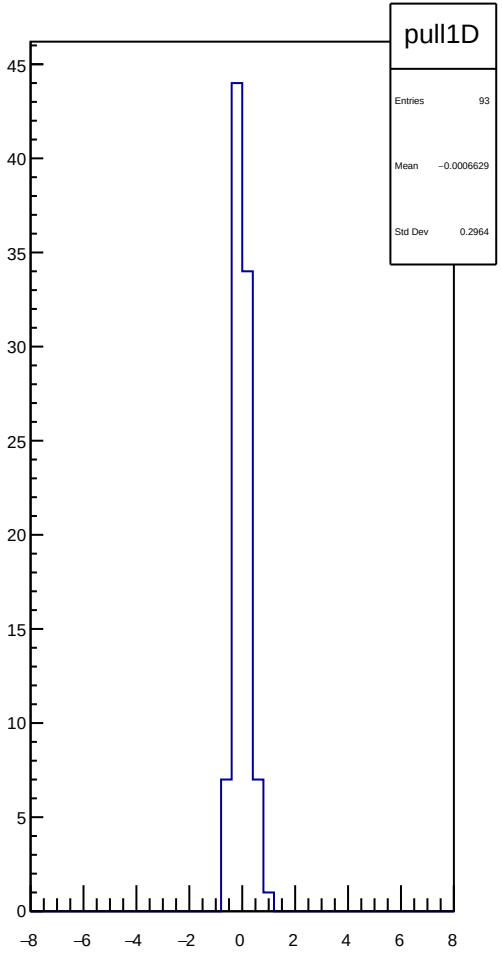

pull1D
Entries 93
Mean −0.03216
Std Dev 1.145

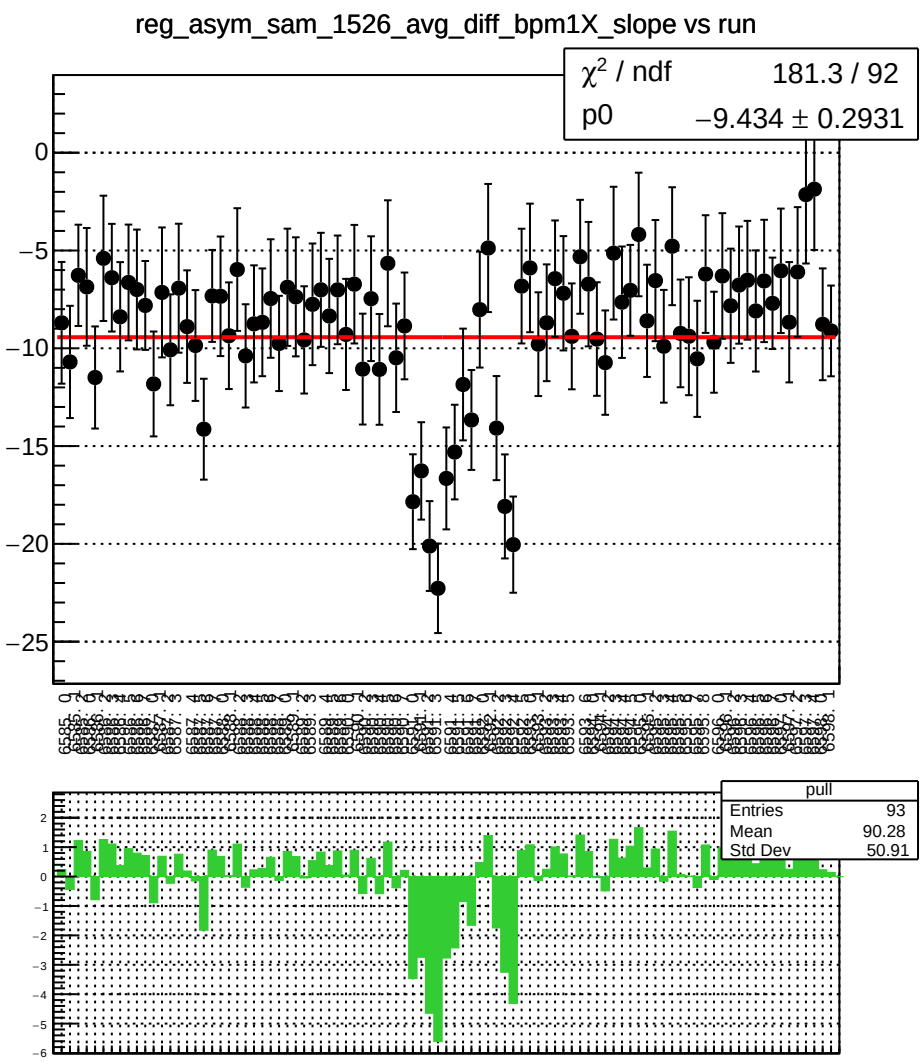

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 276.4 / 92
p0 −74.78 ± 0.8465
−20
−40
−60
−80
−100
pull
Entries 93
Mean 89.46
Std Dev 53.31
6
4
2
0
−2
pull1D
Entries 93
Mean −0.1046
Std Dev 1.721
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

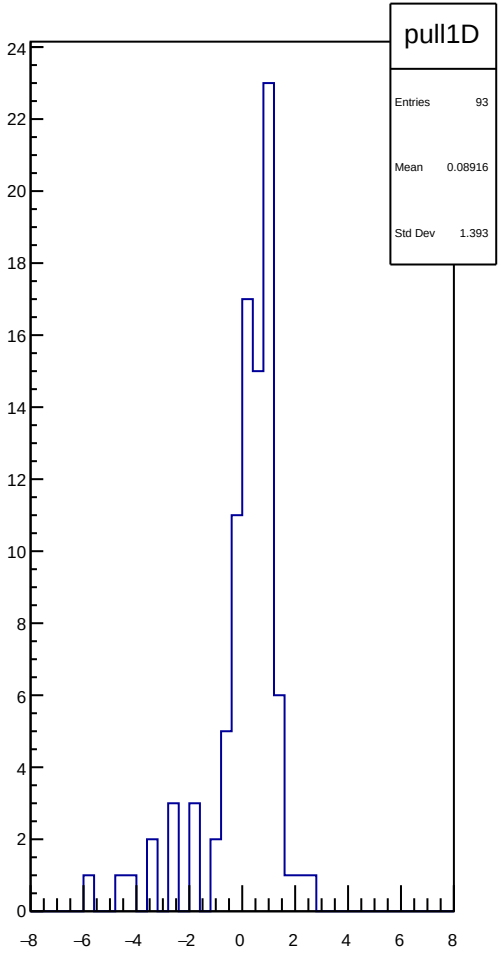

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 115.5 / 92
p0 62.34 ± 0.7152
pull
Entries 93
Mean 38.11
Std Dev 89.75

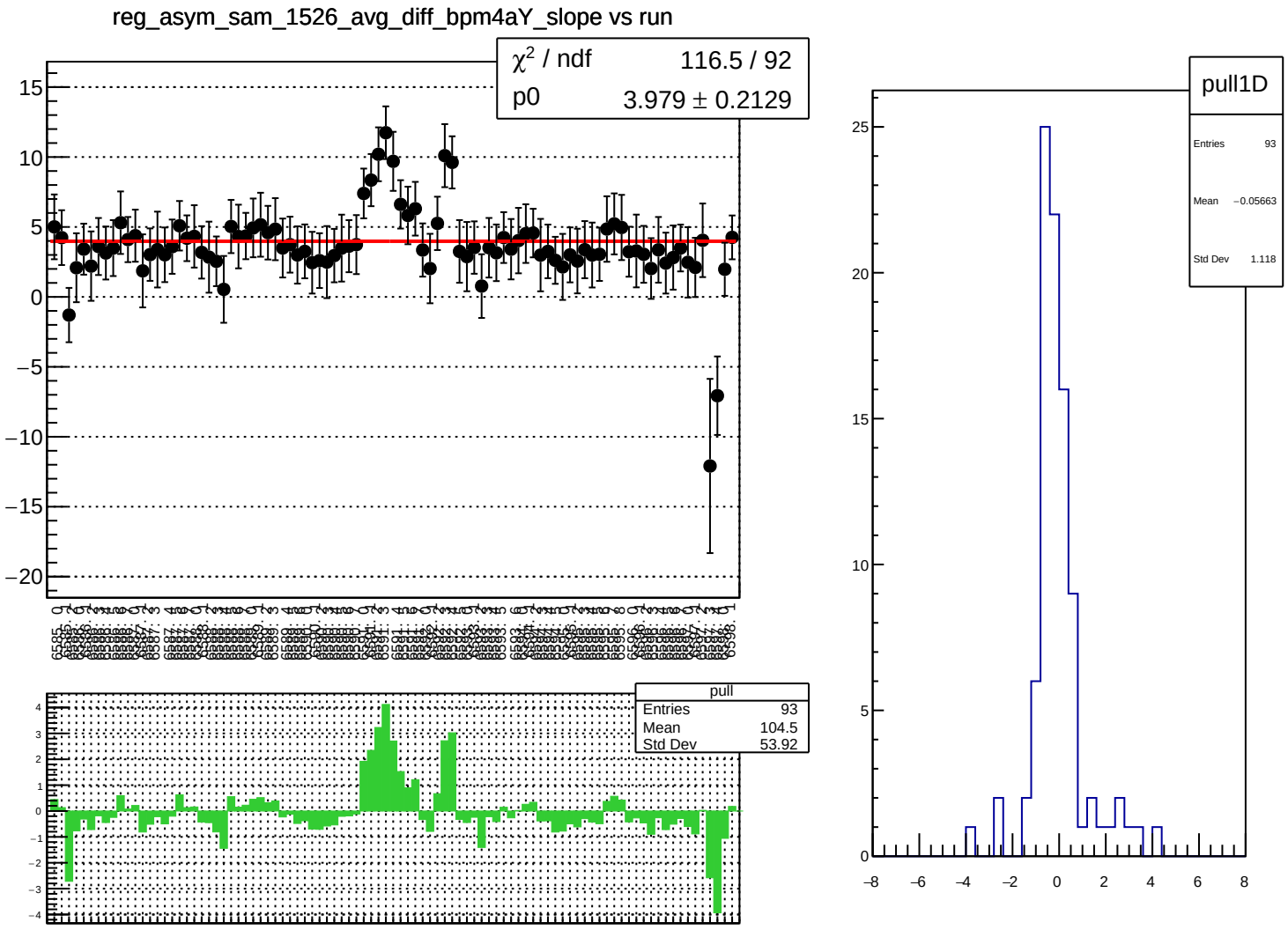

pull1D
Entries 93
Mean 0.03079
Std Dev 1.114

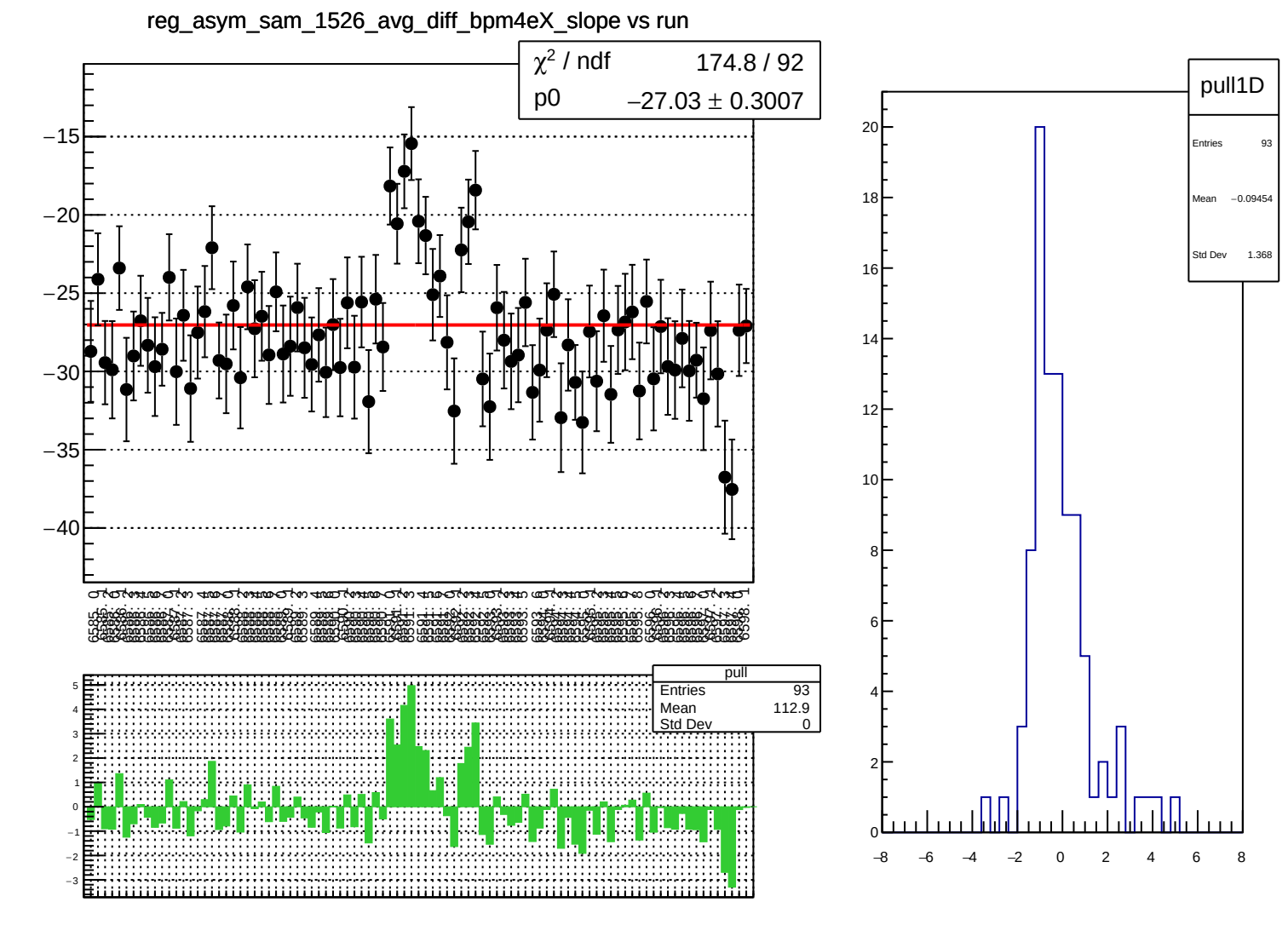

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 8.172 / 92
p0 0.09573 ± 0.0346
pull
Entries 93
Mean −3906
Std Dev 0

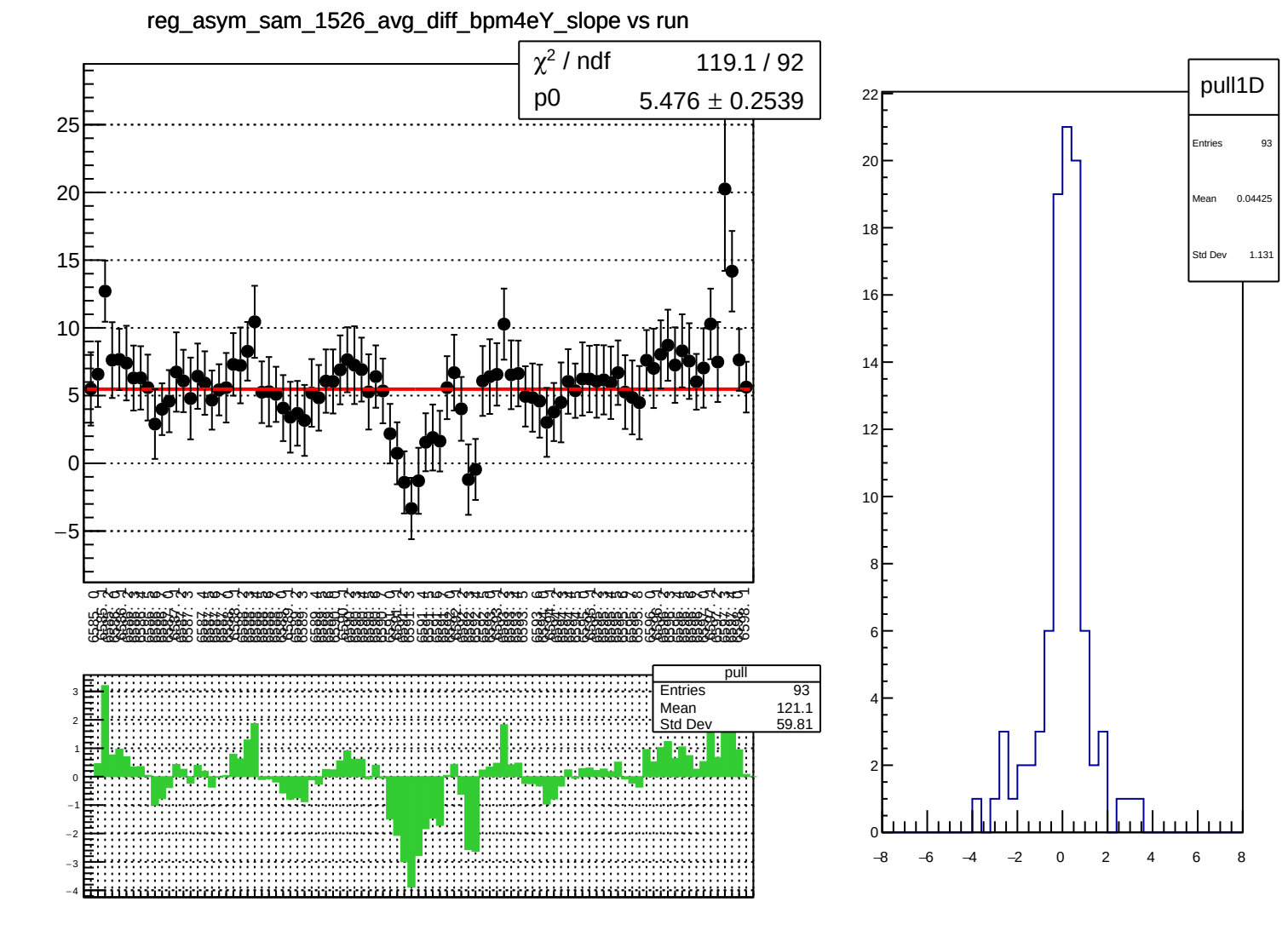

pull1D
Entries 93
Mean −0.0006629
Std Dev 0.2964

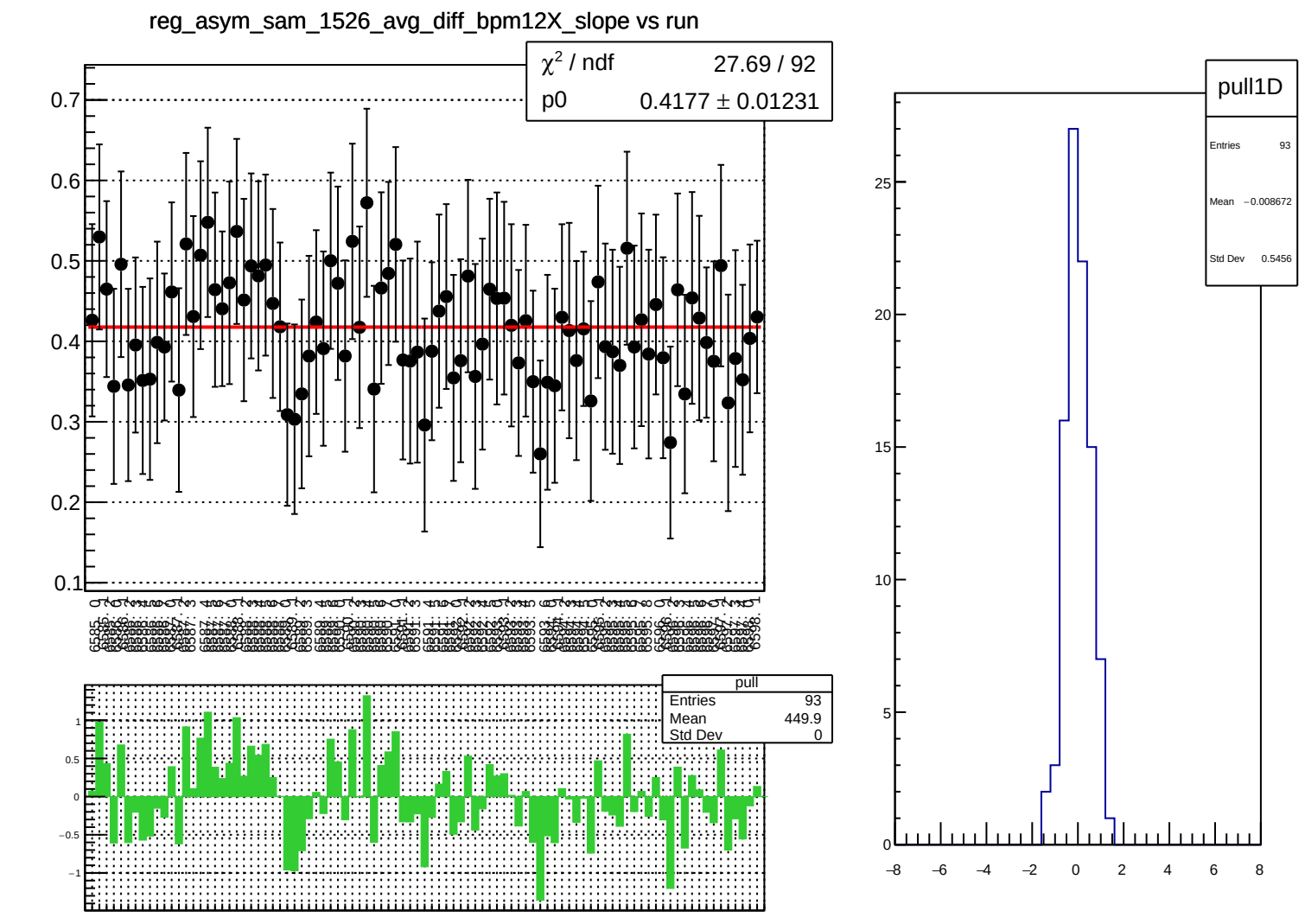

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 181.3 / 92
p0 −9.434 ± 0.2931
pull
Entries 93
Mean 90.28
Std Dev 50.91

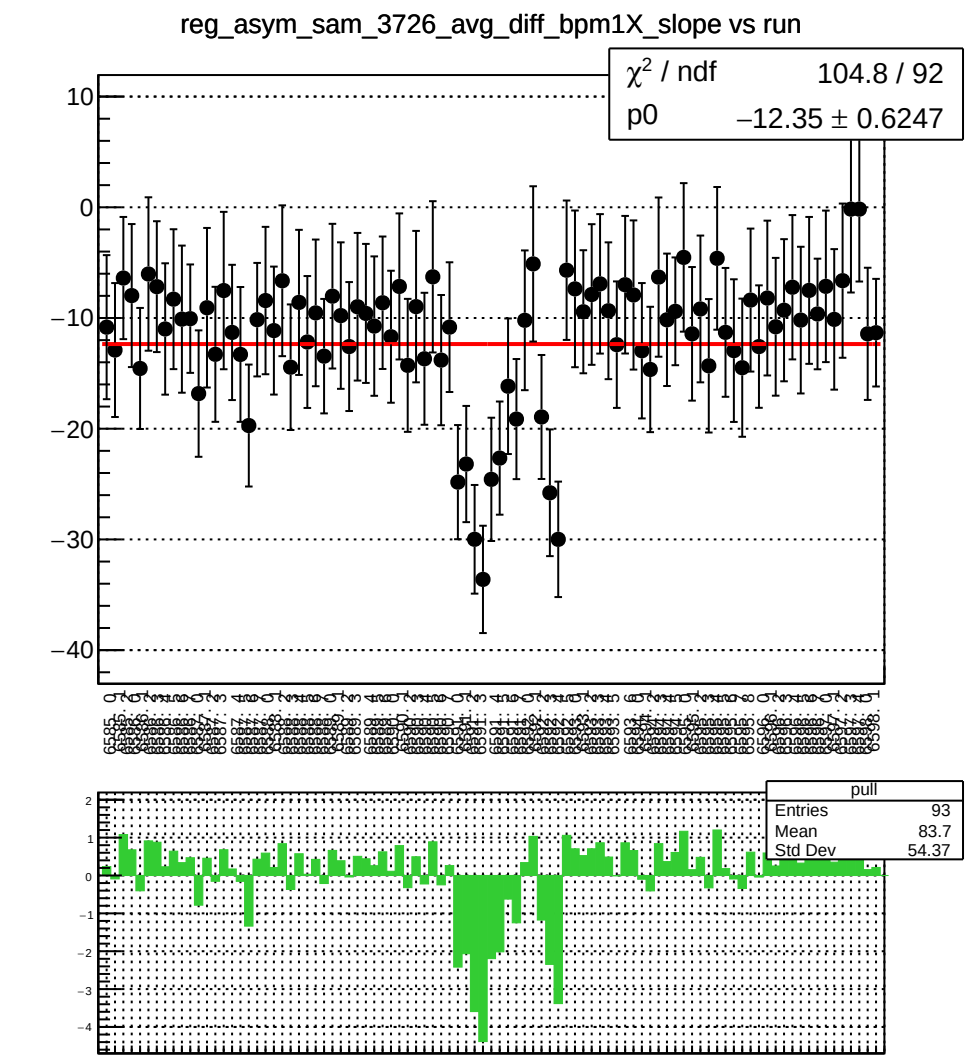

pull1D
Entries 93
Mean 0.08916
Std Dev 1.393

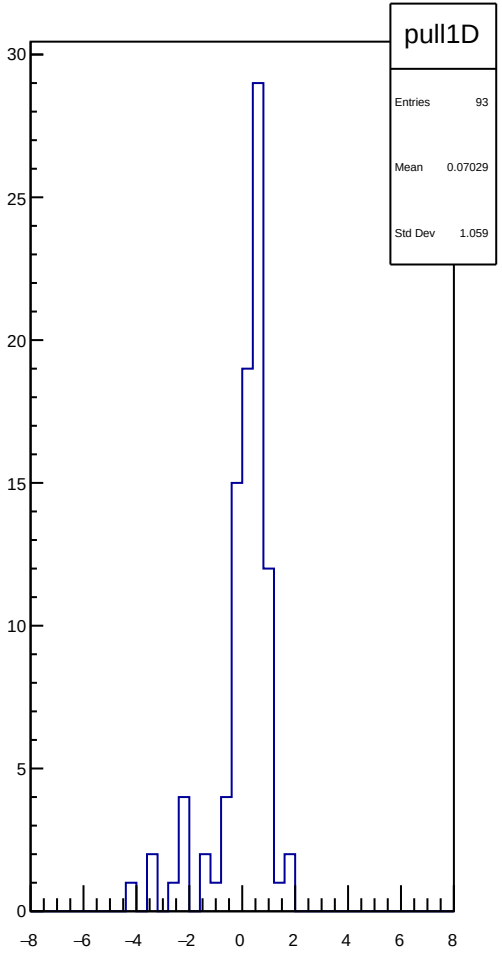

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.5 / 92
p0 3.979 ± 0.2129
pull
Entries 93
Mean 104.5
Std Dev 53.92
pull1D
Entries 93
Mean −0.05663
Std Dev 1.118

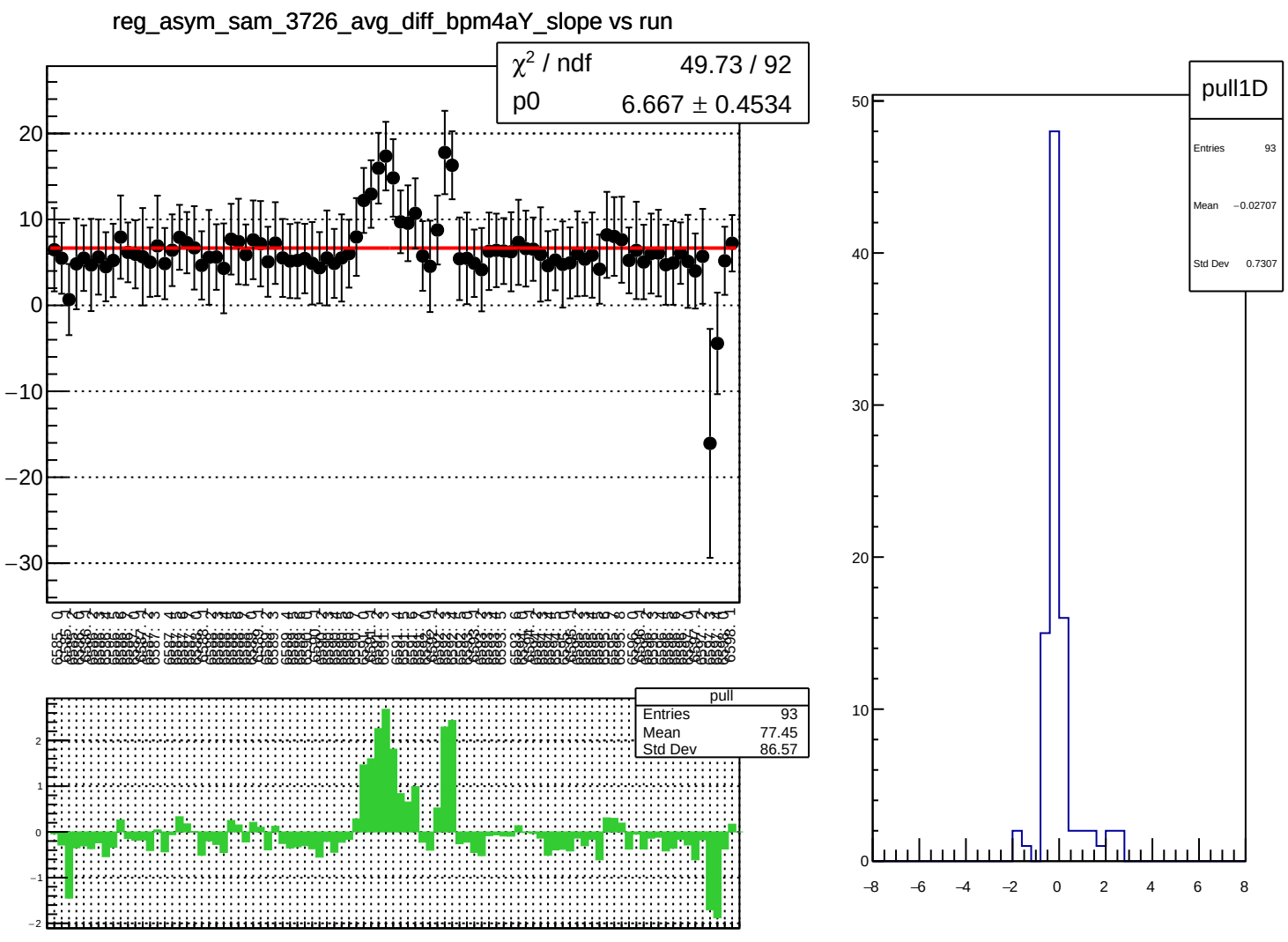

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 174.8 / 92
p0 −27.03 ± 0.3007
pull
Entries 93
Mean 112.9
Std Dev 0
pull1D
Entries 93
Mean −0.09454
Std Dev 1.368

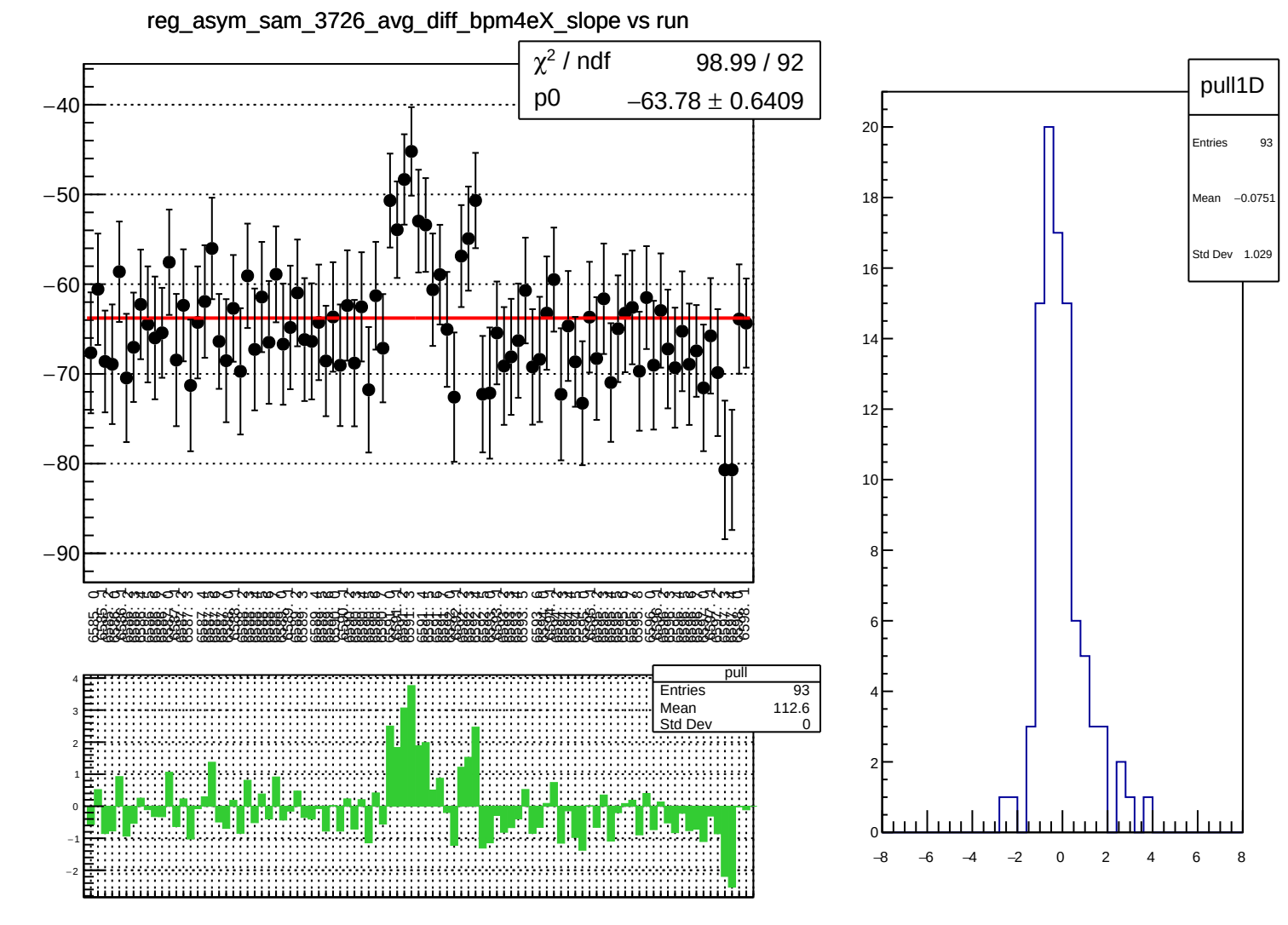

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 119.1 / 92
p0 5.476 ± 0.2539
pull
Entries 93
Mean 121.1
Std Dev 59.81
pull1D
Entries 93
Mean 0.04425
Std Dev 1.131

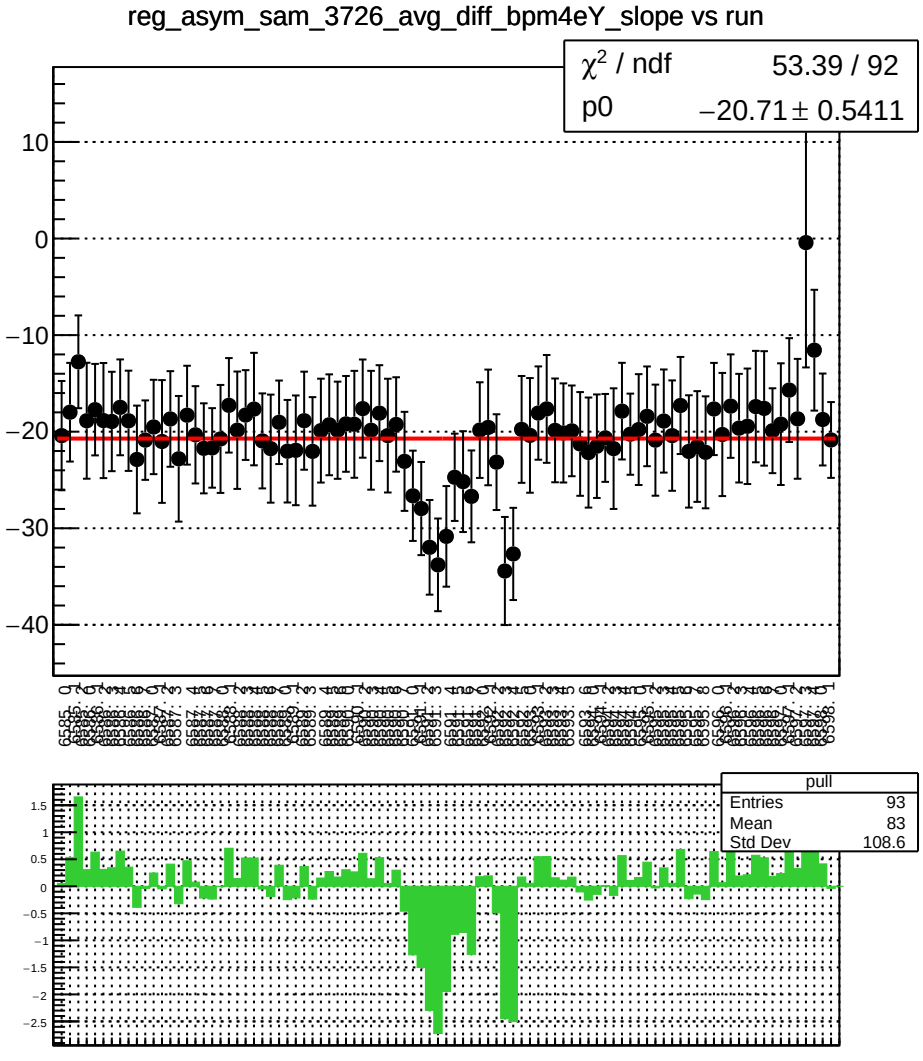

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 27.69 / 92
p0 0.4177 ± 0.01231
pull
Entries 93
Mean 449.9
Std Dev 0
pull1D
Entries 93
Mean −0.008672
Std Dev 0.5456

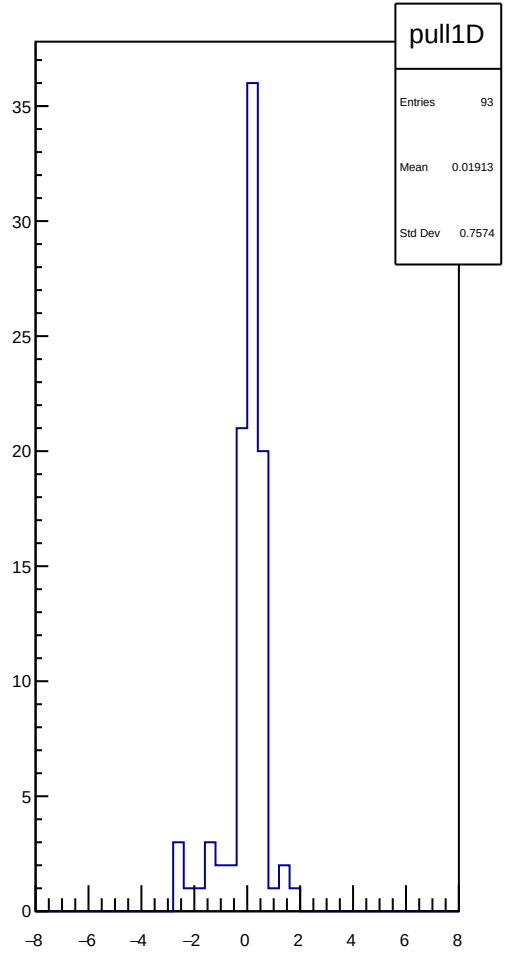

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 104.8 / 92
p0 −12.35 ± 0.6247
pull
Entries 93
Mean 83.7
Std Dev 54.37

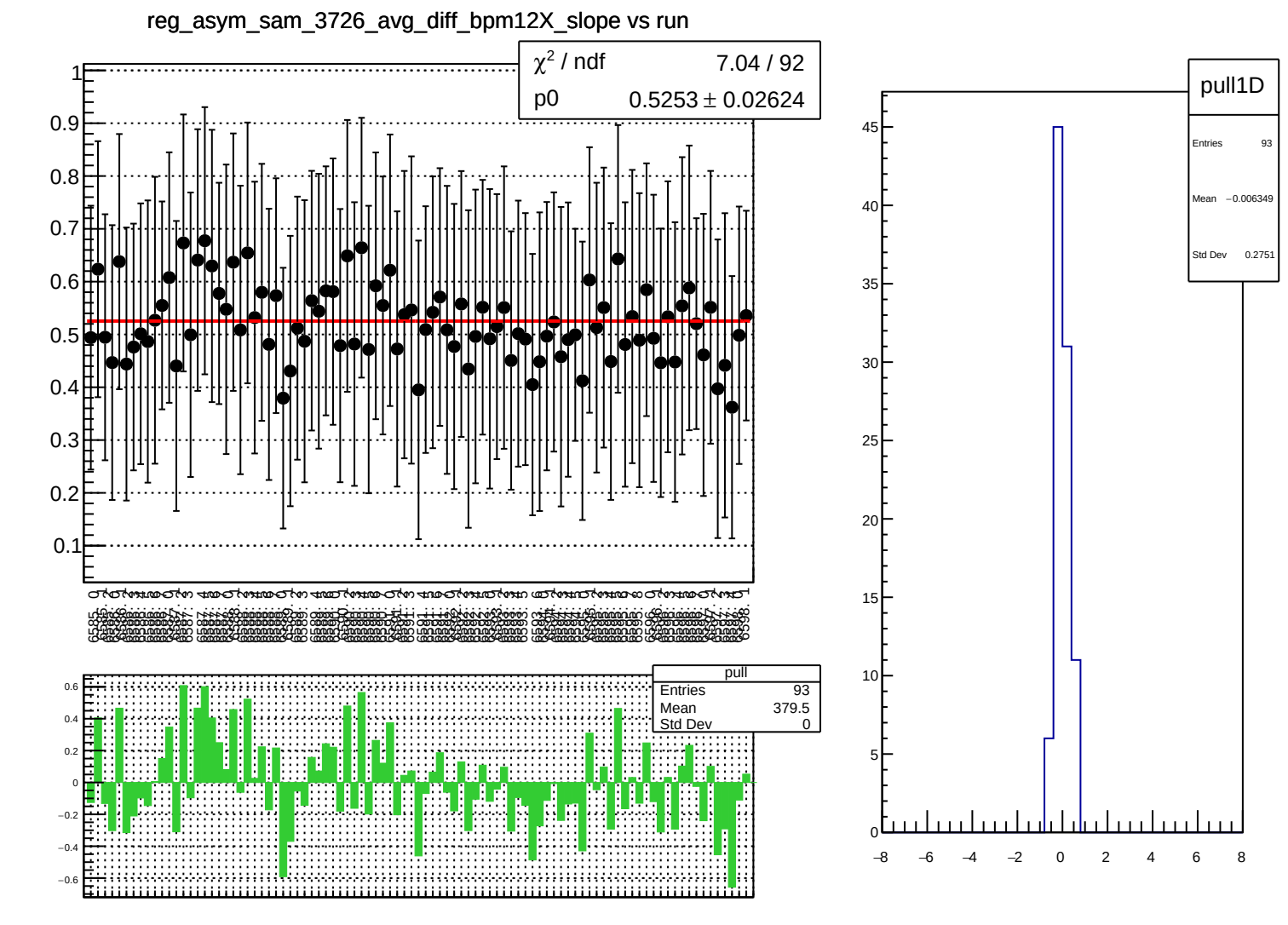

pull1D
Entries 93
Mean 0.07029
Std Dev 1.059

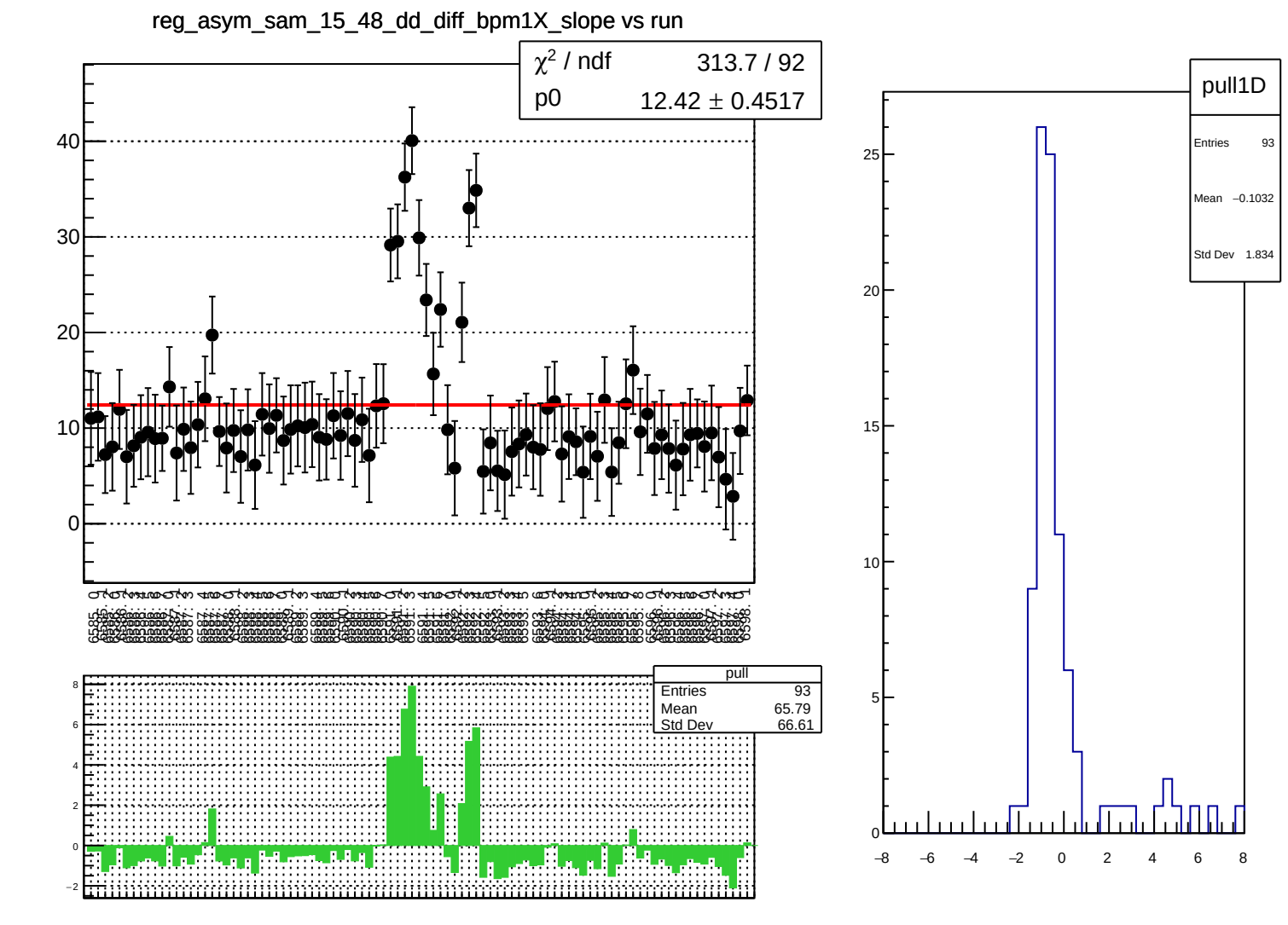

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.73 / 92
p0 6.667 ± 0.4534
pull
Entries 93
Mean 77.45
Std Dev 86.57
pull1D
Entries 93
Mean −0.02707
Std Dev 0.7307

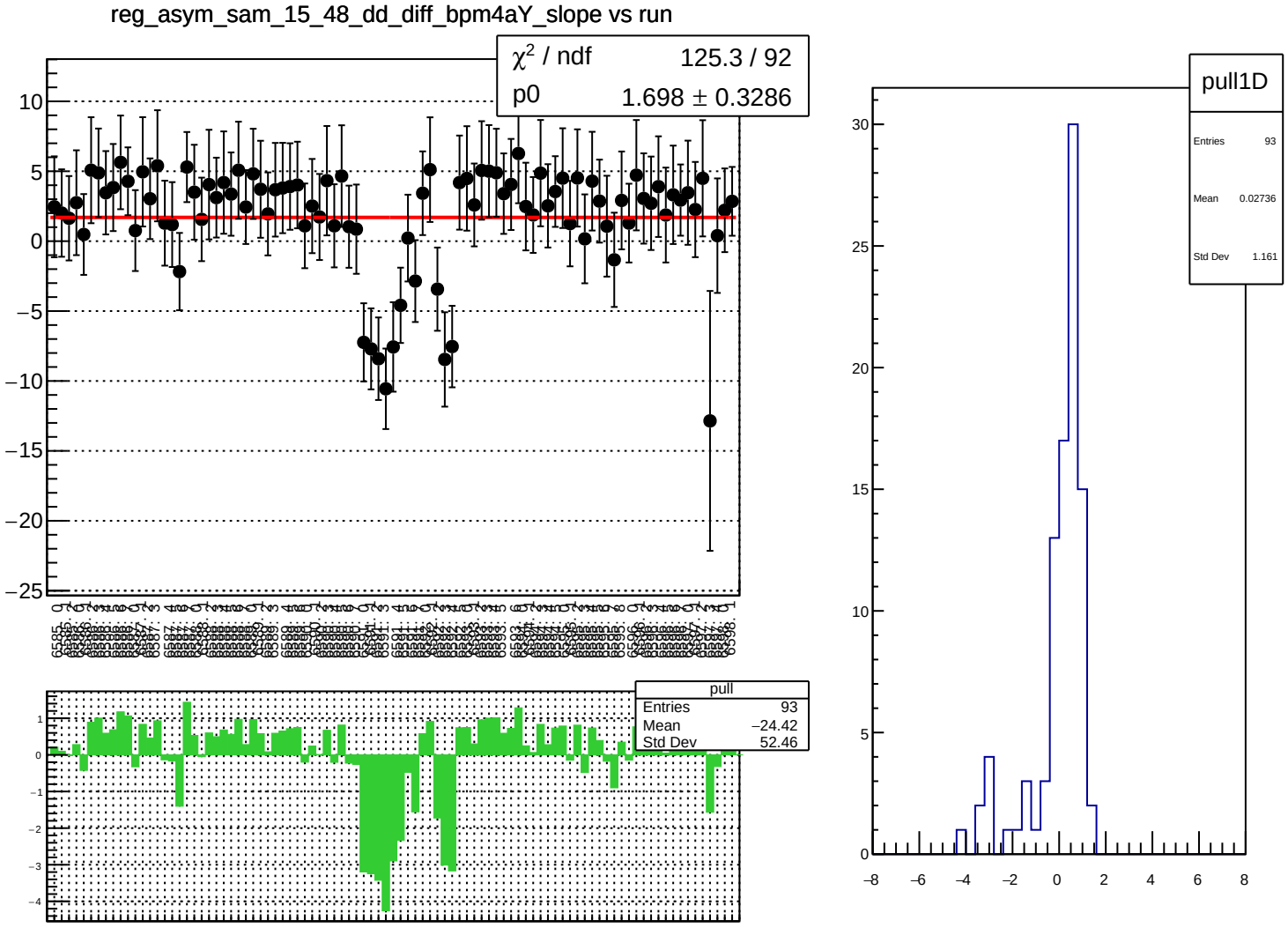

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.99 / 92
p0 −63.78 ± 0.6409
pull
Entries 93
Mean 112.6
Std Dev 0
pull1D
Entries 93
Mean −0.0751
Std Dev 1.029

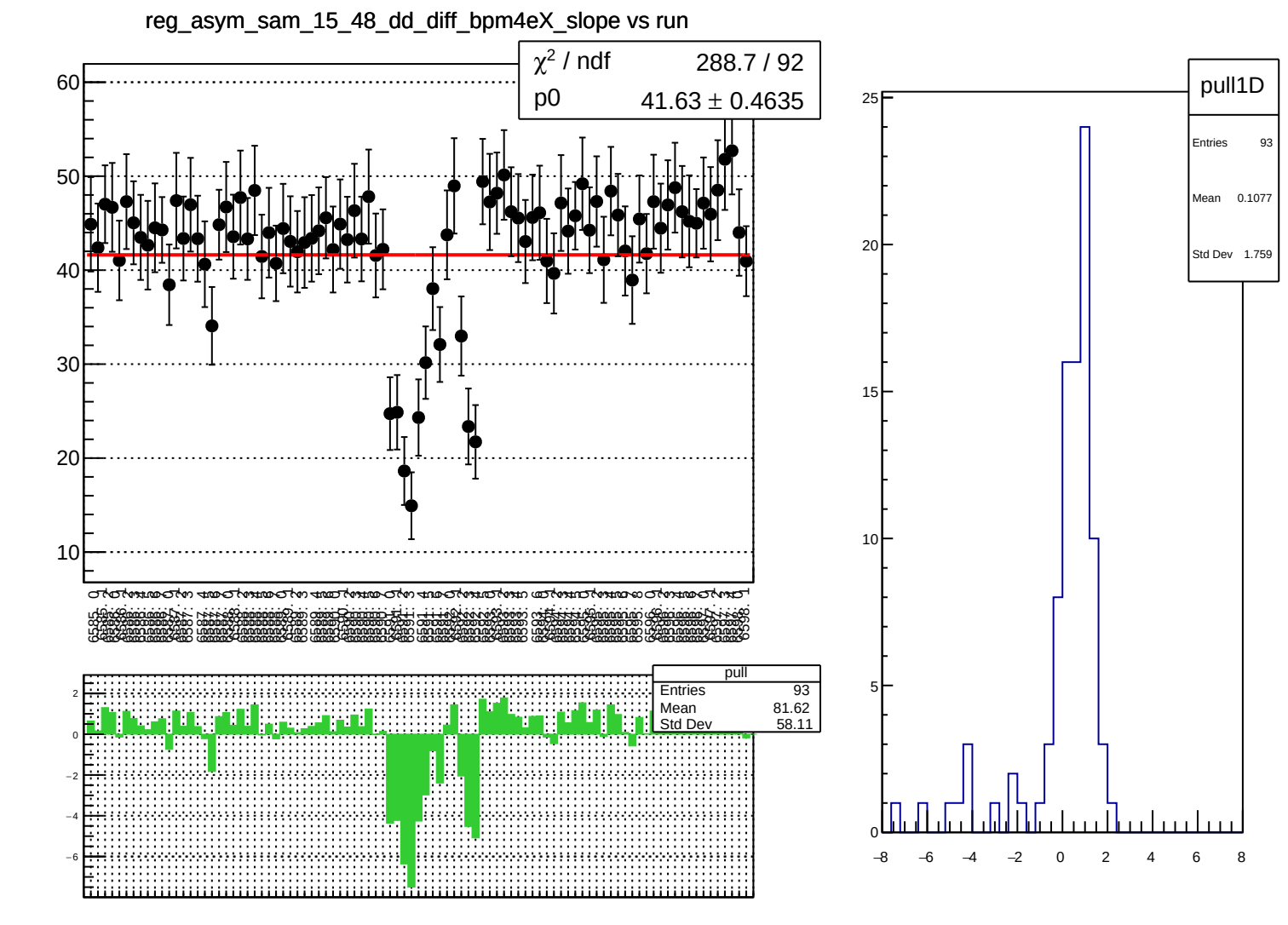

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.39 / 92
p0 −20.71 ± 0.5411
pull
Entries 93
Mean 83
Std Dev 108.6

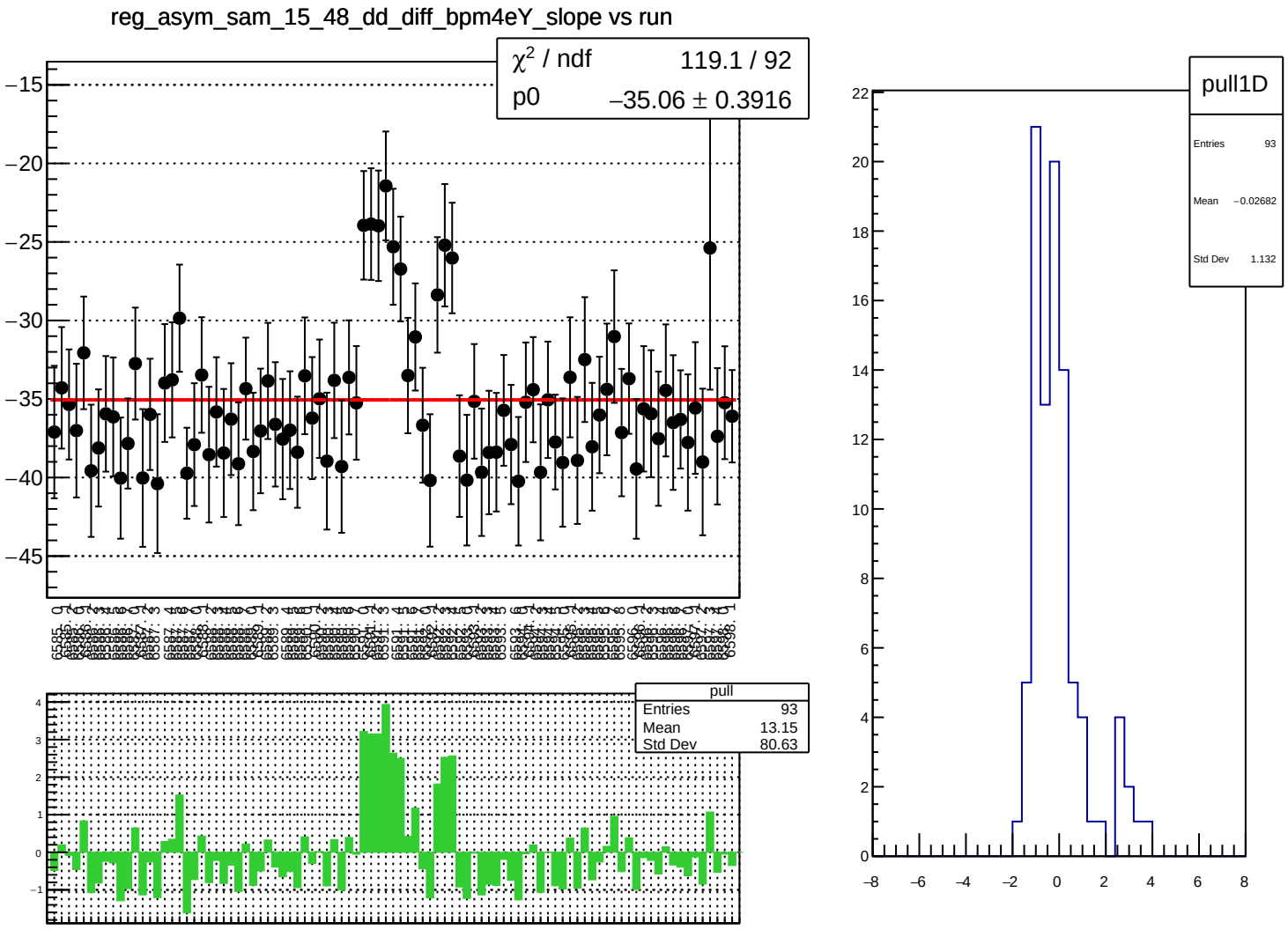

pull1D
Entries 93
Mean 0.01913
Std Dev 0.7574

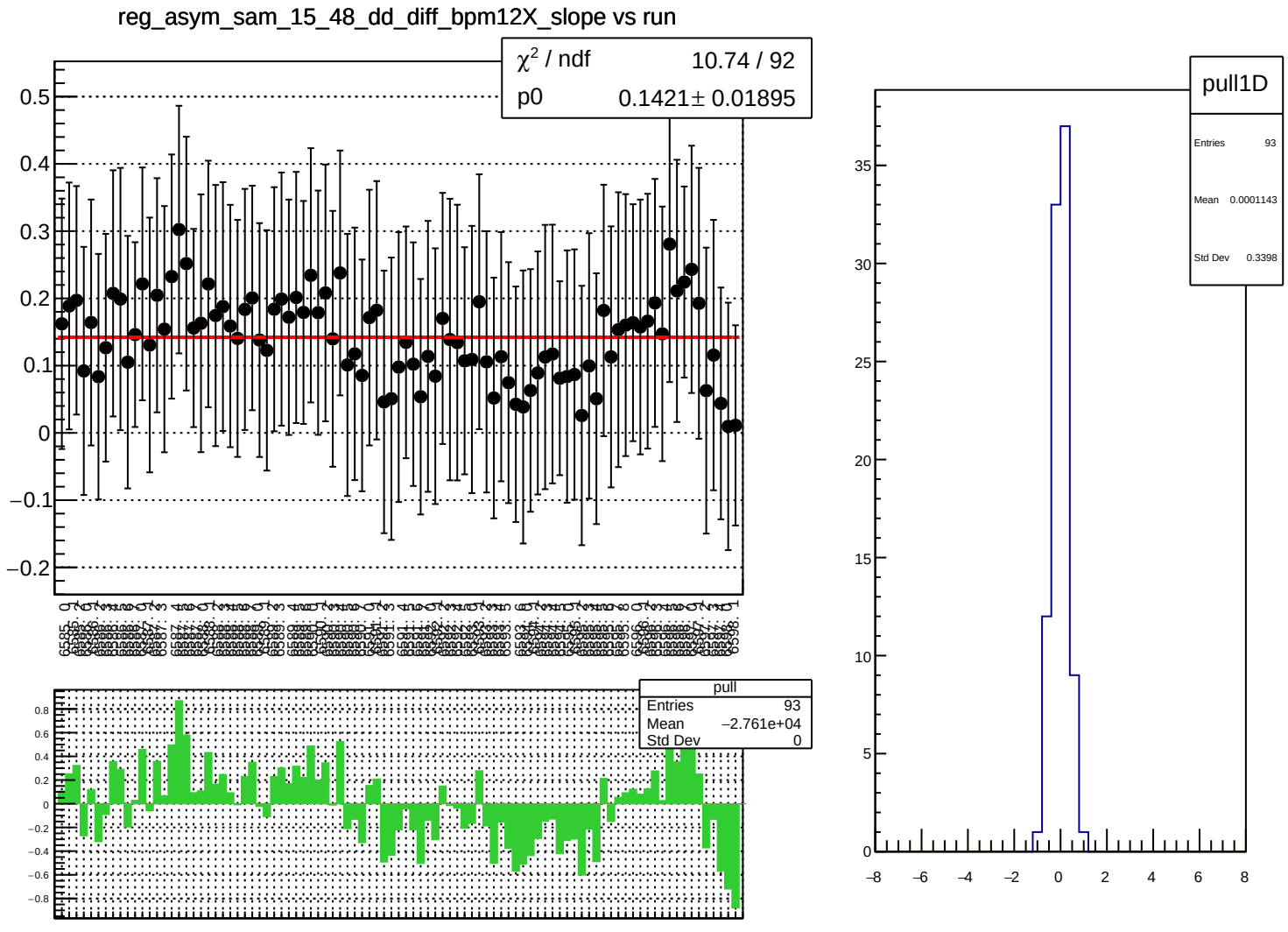

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 7.04 / 92
p0 0.5253 ± 0.02624
pull
Entries 93
Mean 379.5
Std Dev 0
pull1D
Entries 93
Mean −0.006349
Std Dev 0.2751

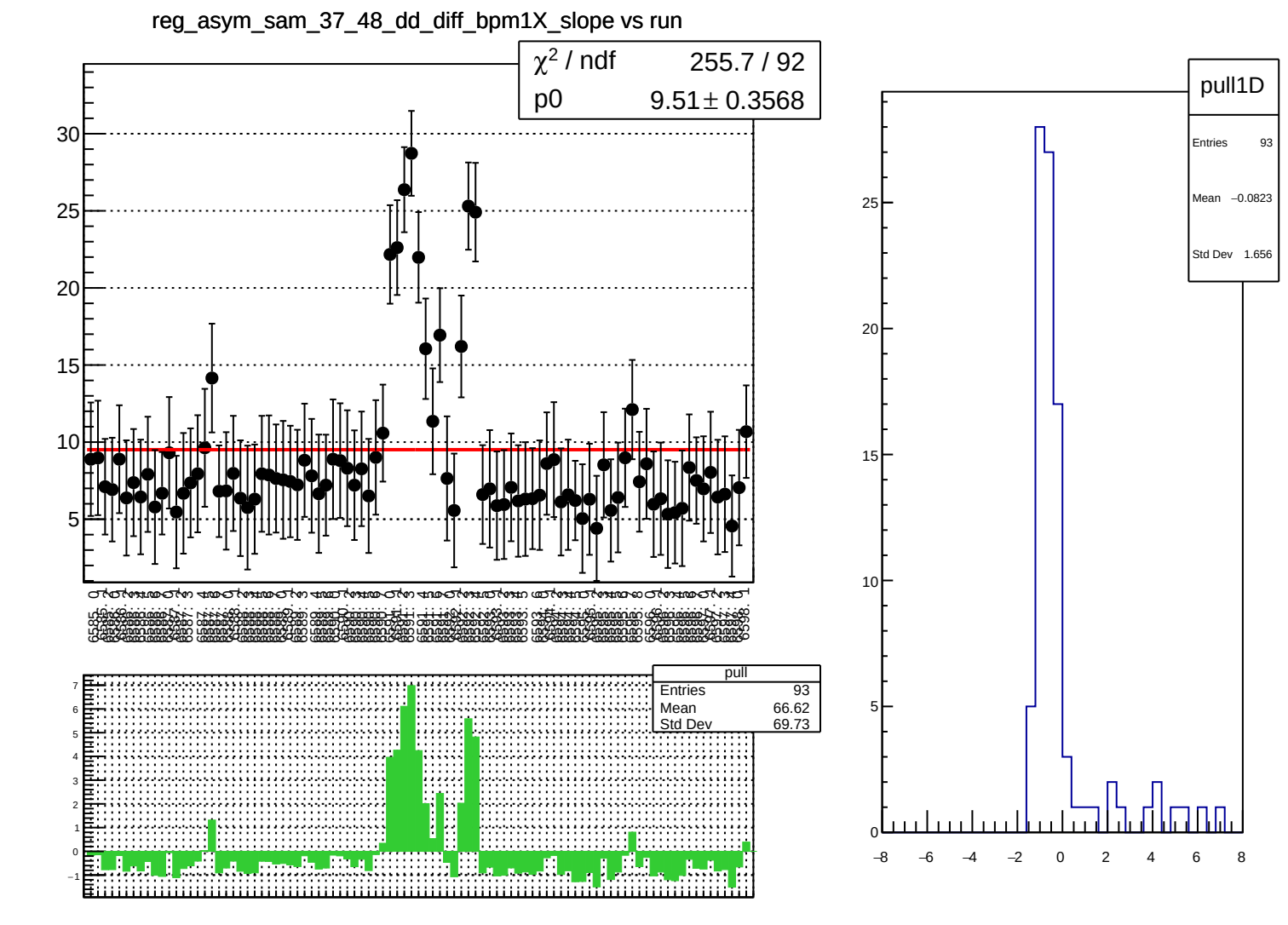

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 313.7 / 92
p0 12.42 ± 0.4517
pull
Entries 93
Mean 65.79
Std Dev 66.61
pull1D
Entries 93
Mean −0.1032
Std Dev 1.834

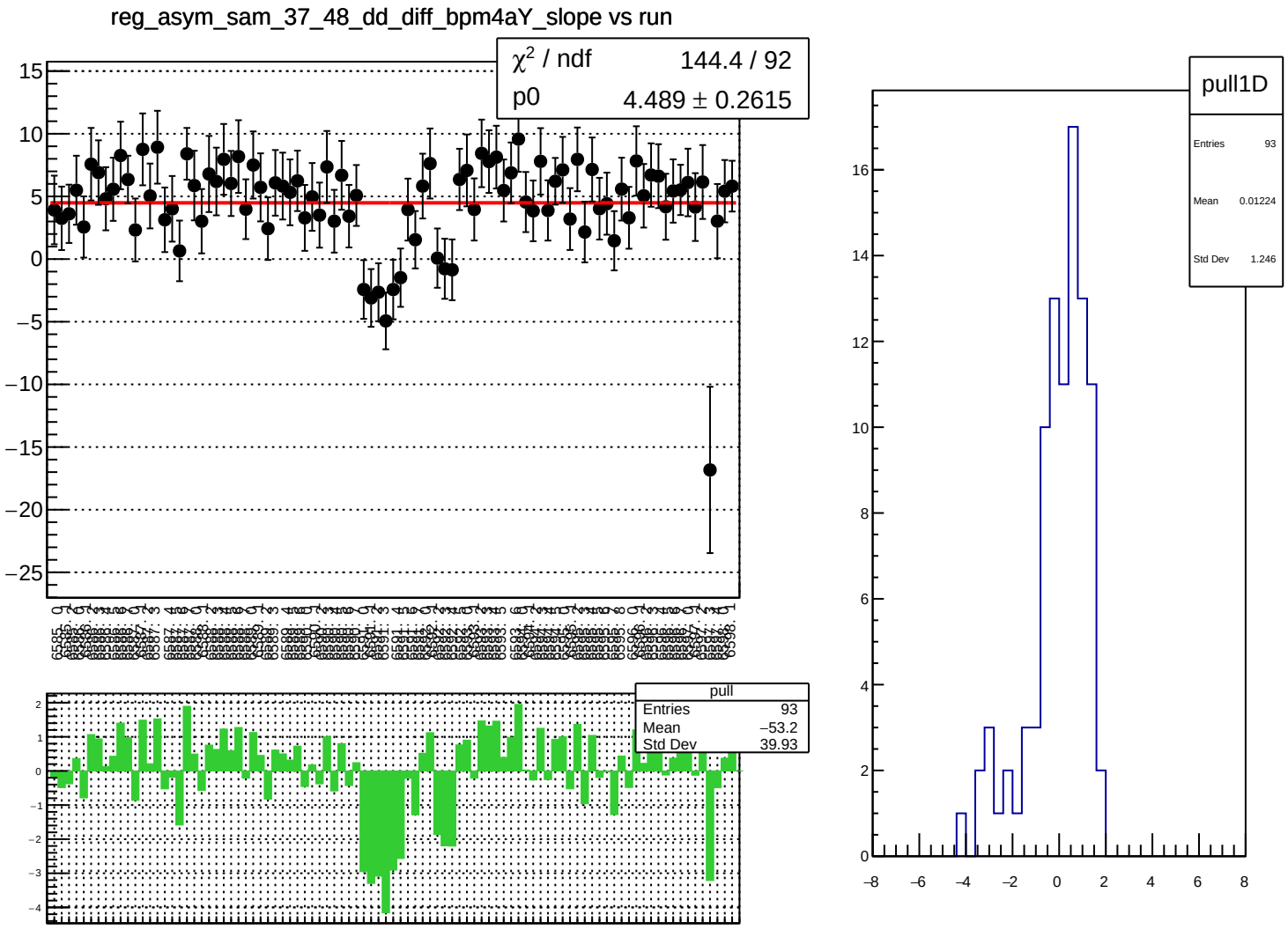

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 125.3 / 92
p0 1.698 ± 0.3286
pull
Entries 93
Mean −24.42
Std Dev 52.46
pull1D
Entries 93
Mean 0.02736
Std Dev 1.161

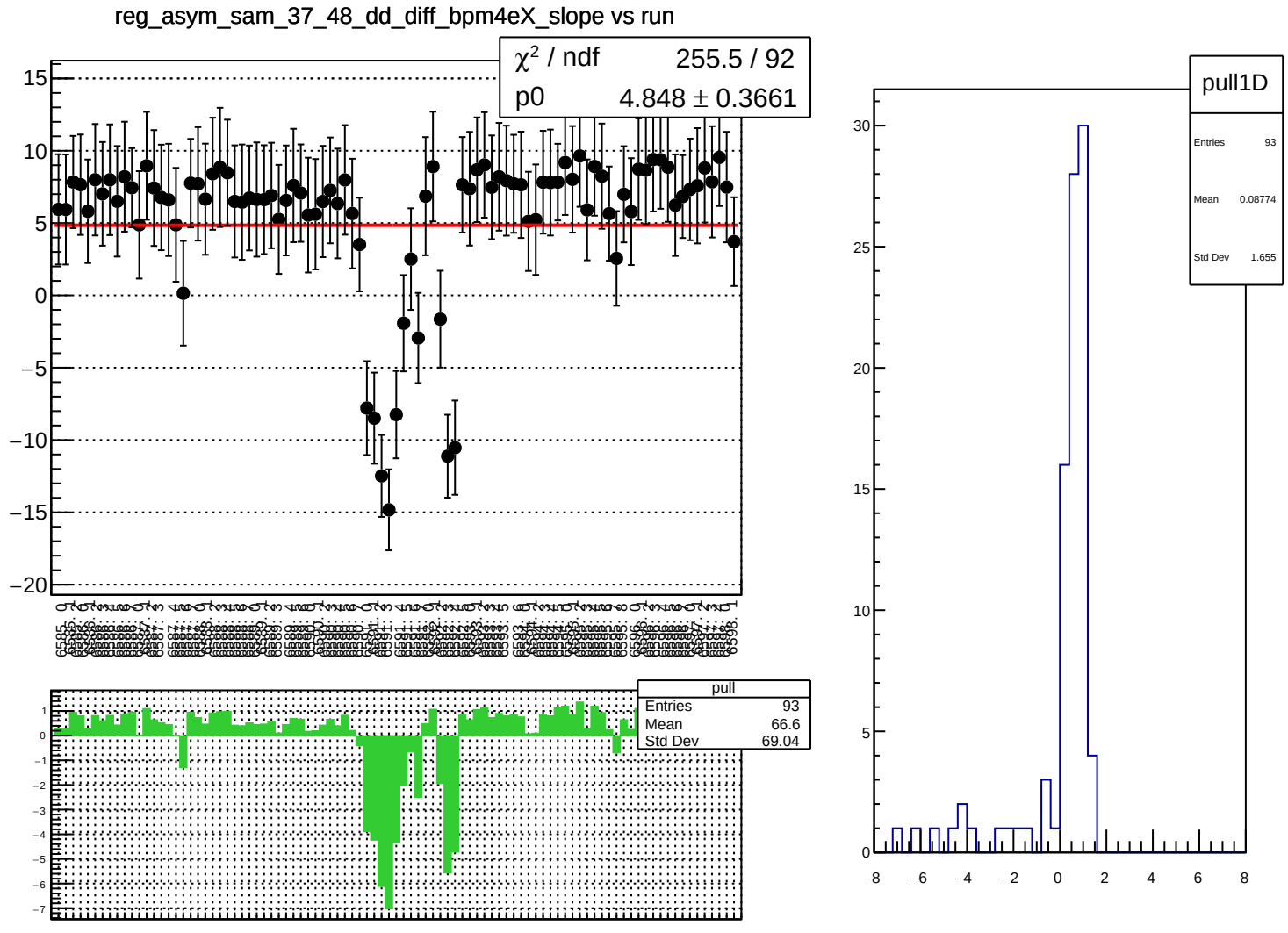

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 288.7 / 92
p0 41.63 ± 0.4635
pull
Entries 93
Mean 81.62
Std Dev 58.11
pull1D
Entries 93
Mean 0.1077
Std Dev 1.759

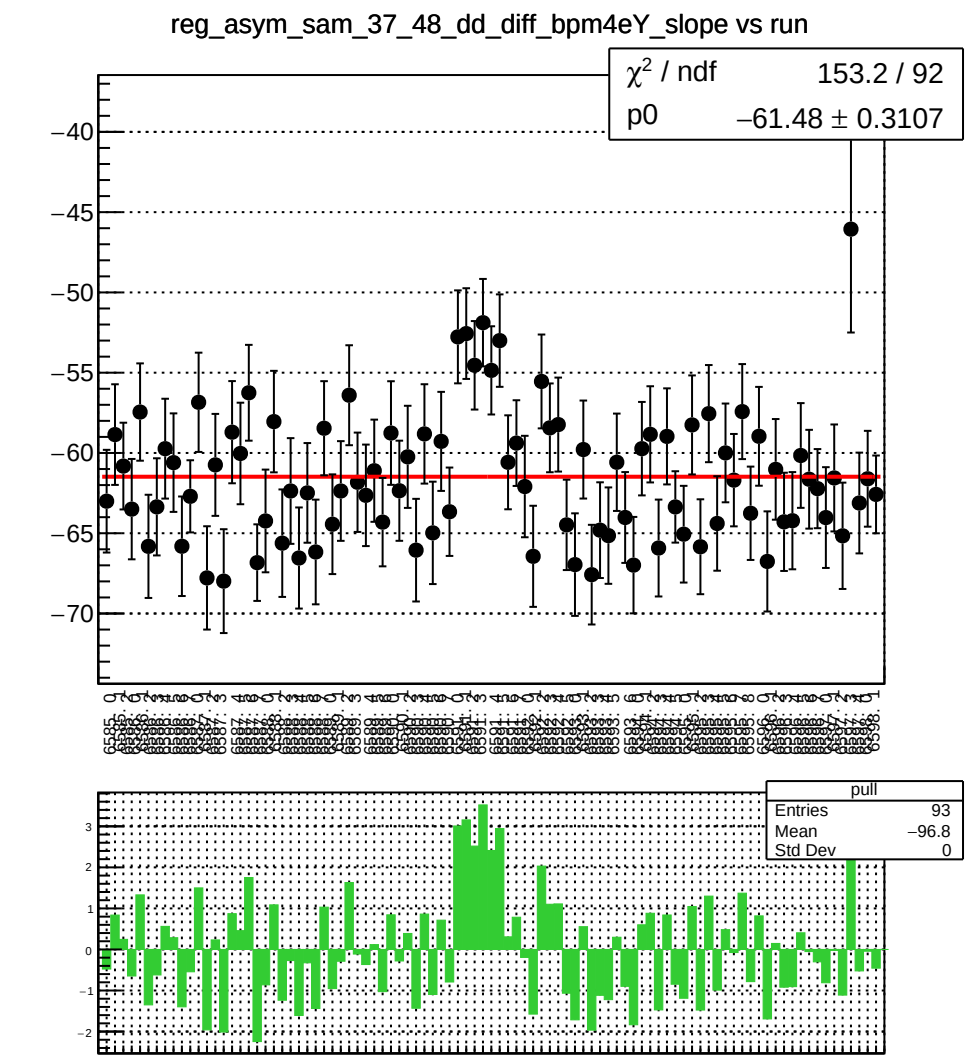

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 119.1 / 92
p0 −35.06 ± 0.3916
pull
Entries 93
Mean 13.15
Std Dev 80.63
pull1D
Entries 93
Mean −0.02682
Std Dev 1.132

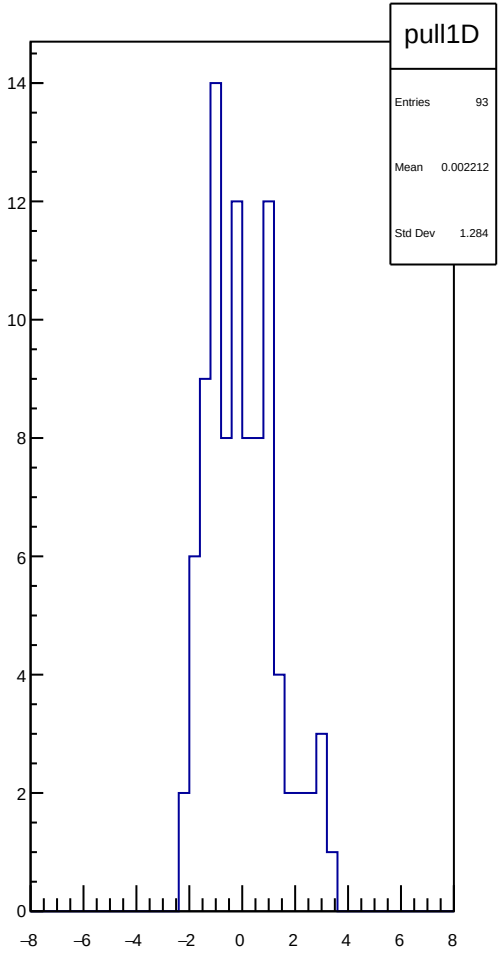

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.74 / 92
p0 0.1421± 0.01895
pull
Entries 93
Mean −2.761e+04
Std Dev 0
pull1D
Entries 93
Mean 0.0001143
Std Dev 0.3398

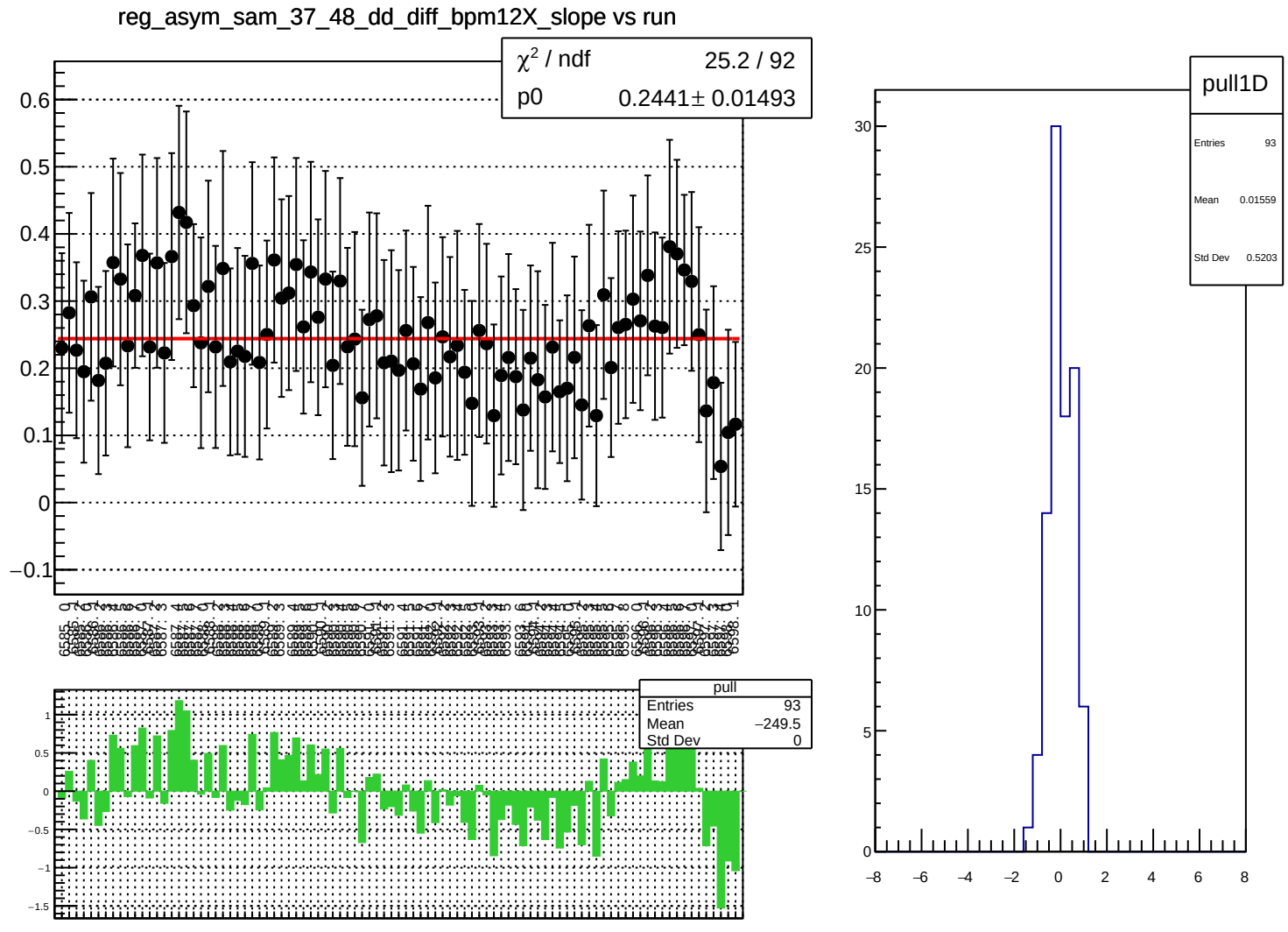

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 255.7 / 92
p0 9.51 ± 0.3568
pull
Entries 93
Mean 66.62
Std Dev 69.73
pull1D
Entries 93
Mean −0.0823
Std Dev 1.656

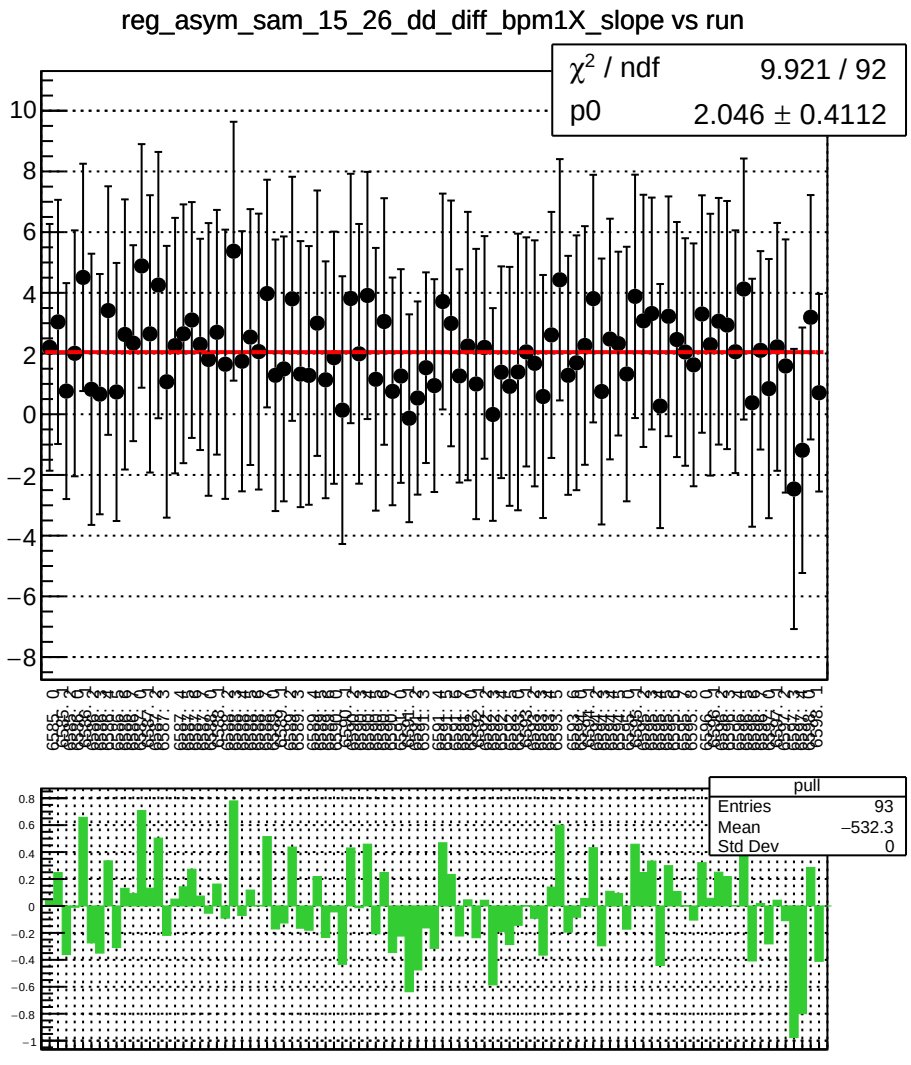

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 144.4 / 92
p0 4.489 ± 0.2615
pull
Entries 93
Mean −53.2
Std Dev 39.93
pull1D
Entries 93
Mean 0.01224
Std Dev 1.246

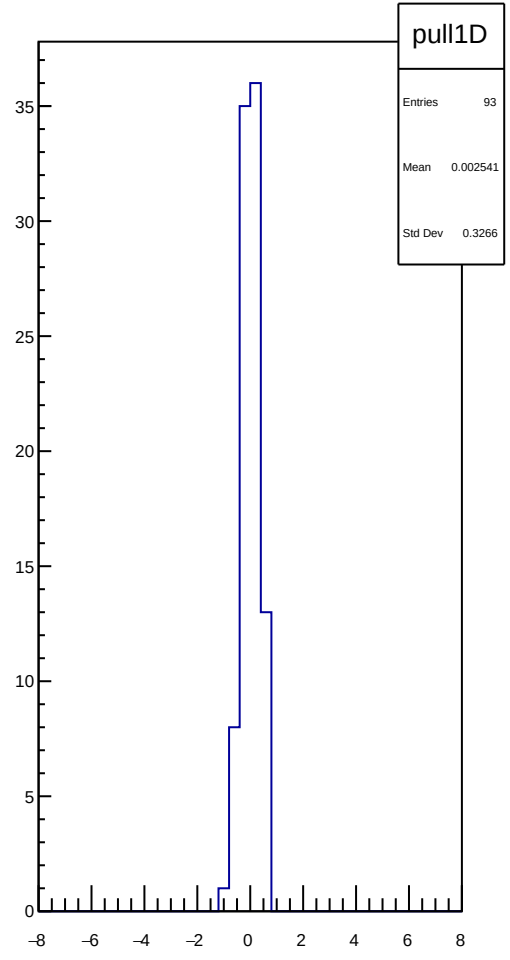

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 255.5 / 92
p0 4.848 ± 0.3661
pull
Entries 93
Mean 66.6
Std Dev 69.04
pull1D
Entries 93
Mean 0.08774
Std Dev 1.655

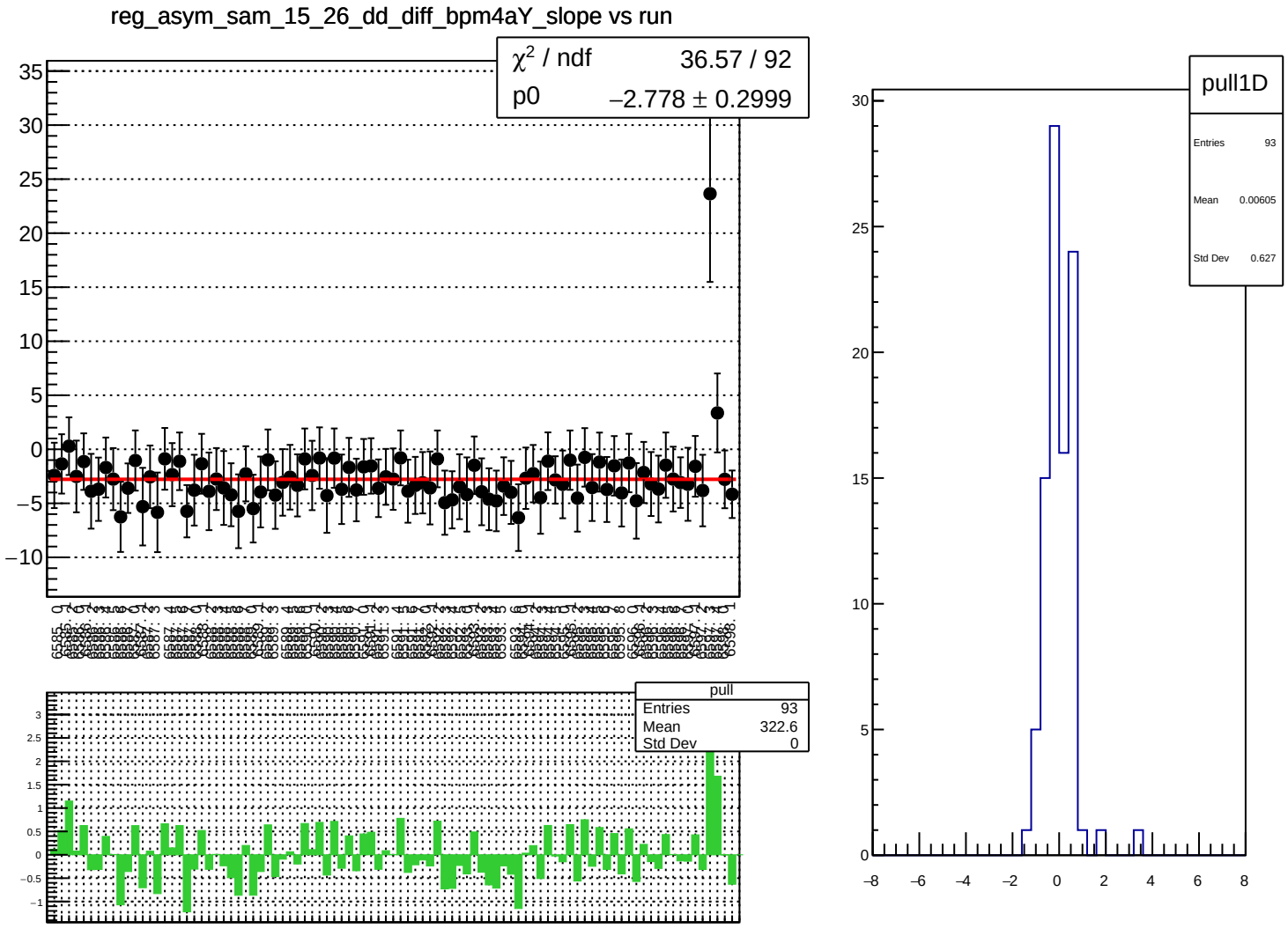

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 153.2 / 92
p0 −61.48 ± 0.3107
−40
−45
−50
−55
−60
−65
−70
pull
Entries 93
Mean −96.8
Std Dev 0
3
2
1
0
−1
−2

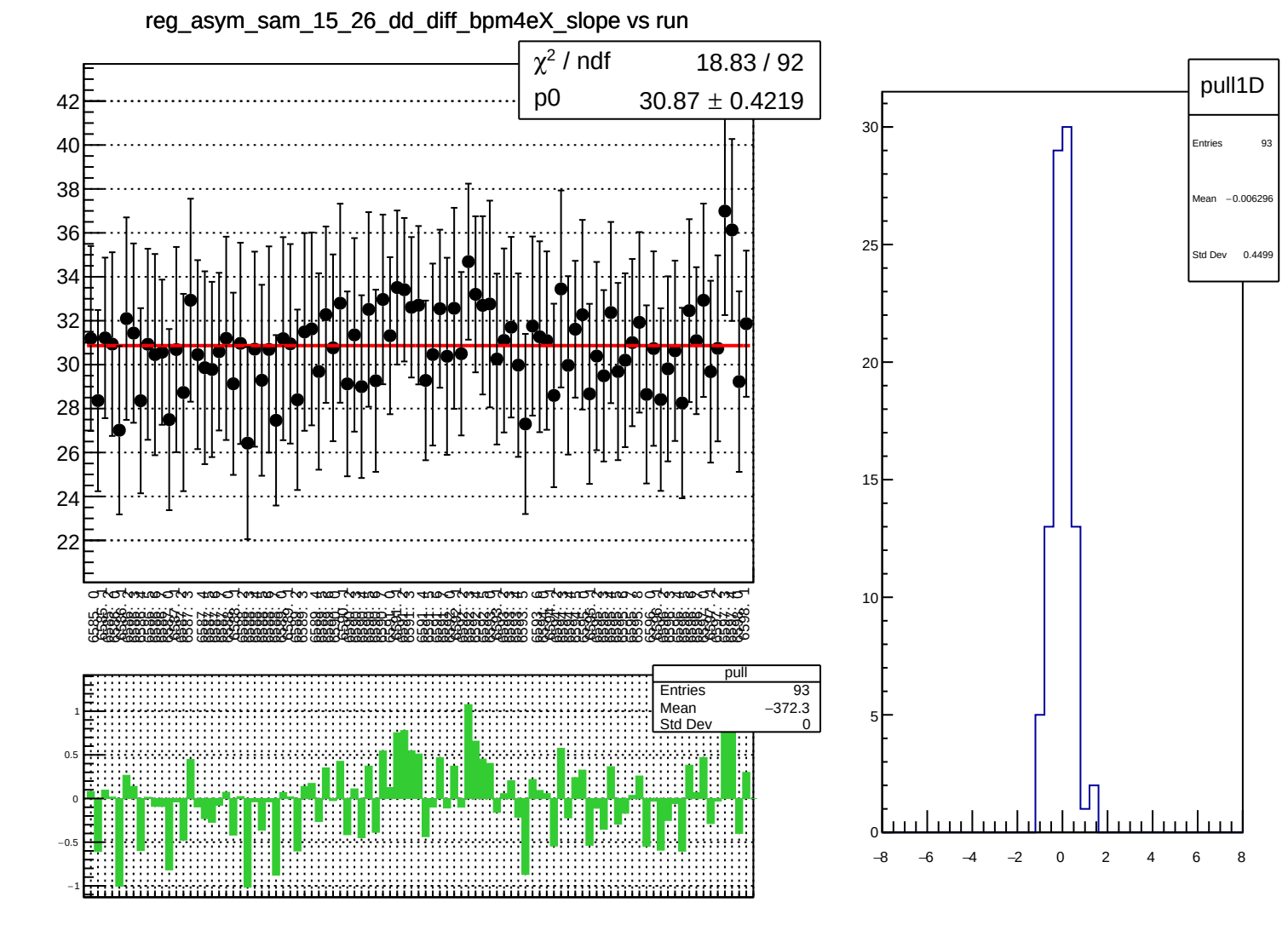

pull1D
Entries 93
Mean 0.002212
Std Dev 1.284
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

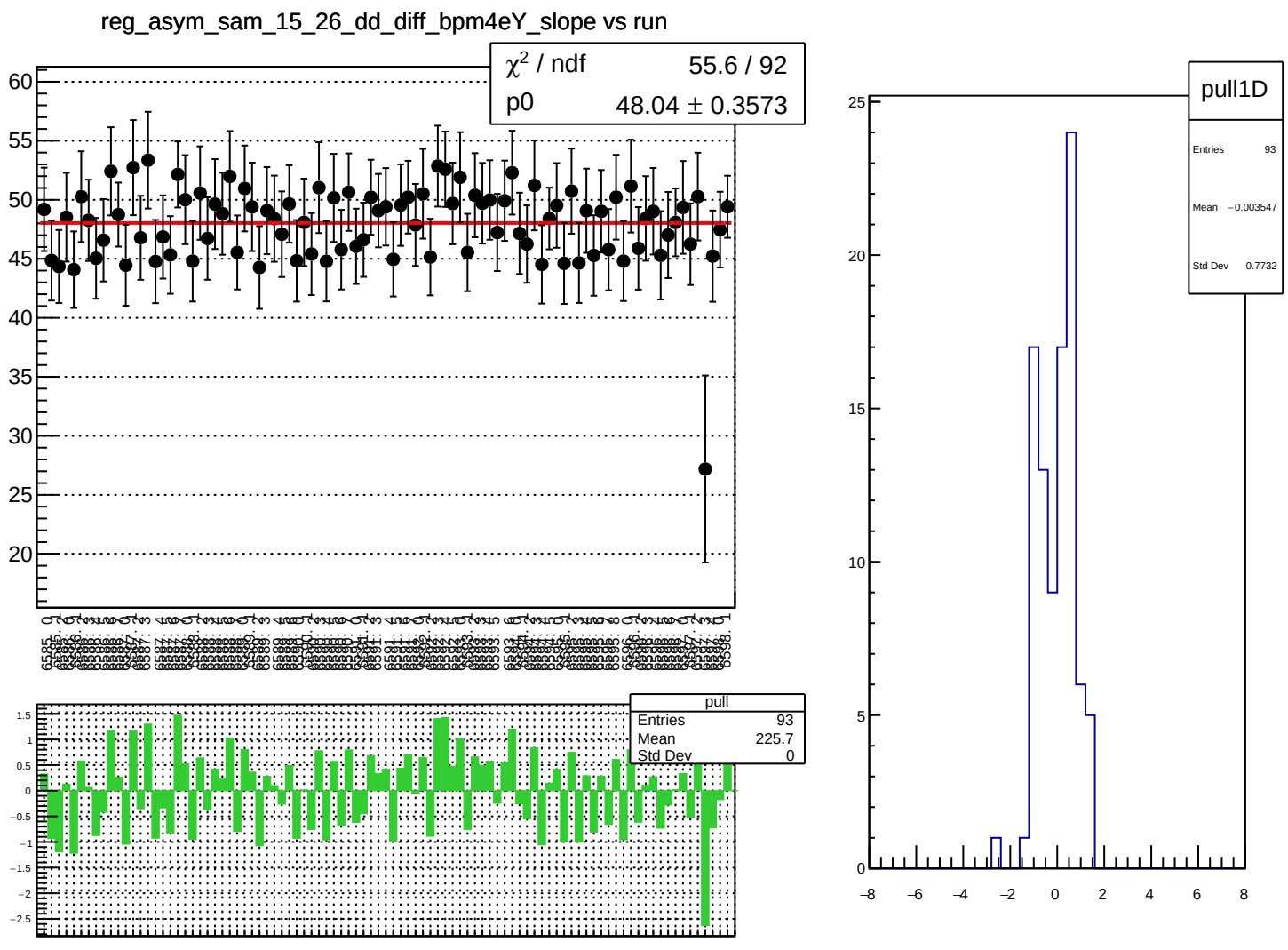

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 25.2 / 92
p0 0.2441± 0.01493
pull
Entries 93
Mean −249.5
Std Dev 0
pull1D
Entries 93
Mean 0.01559
Std Dev 0.5203

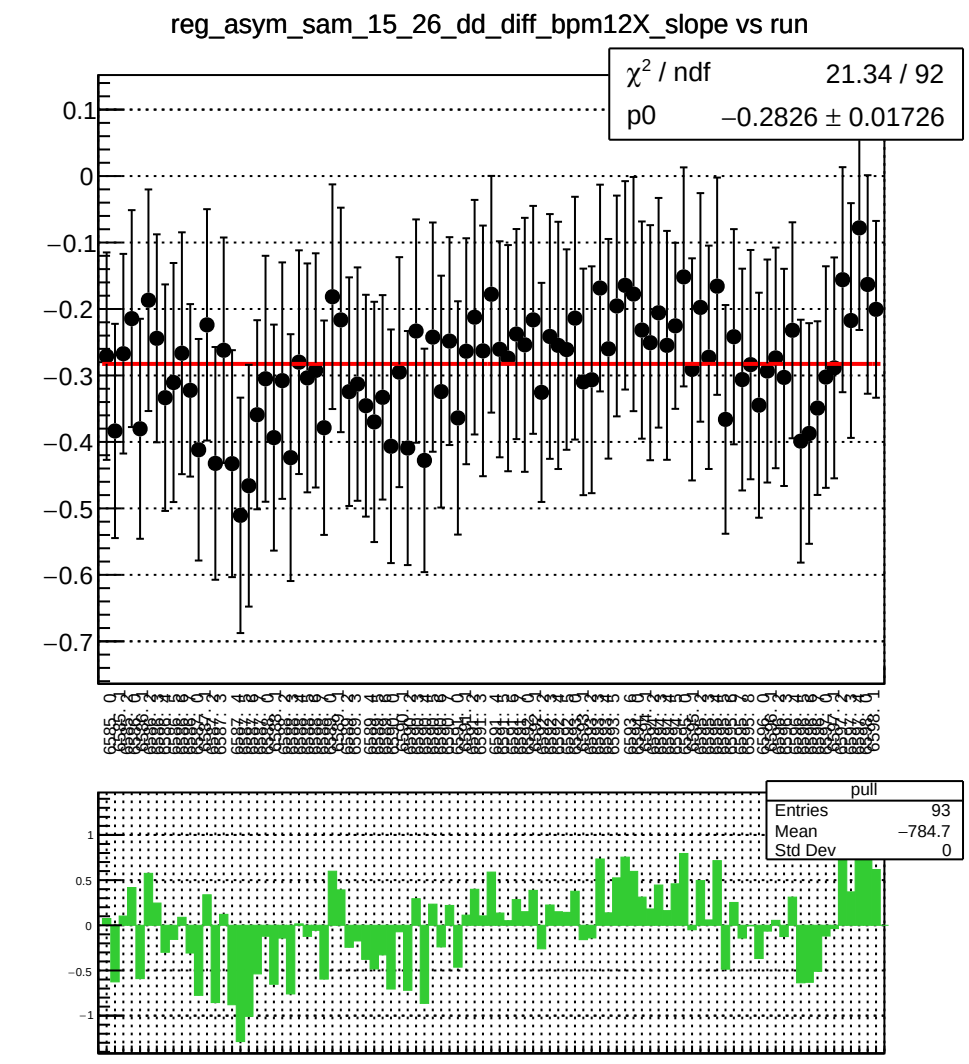

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 9.921 / 92
p0 2.046 ± 0.4112
pull
Entries 93
Mean −532.3
Std Dev 0

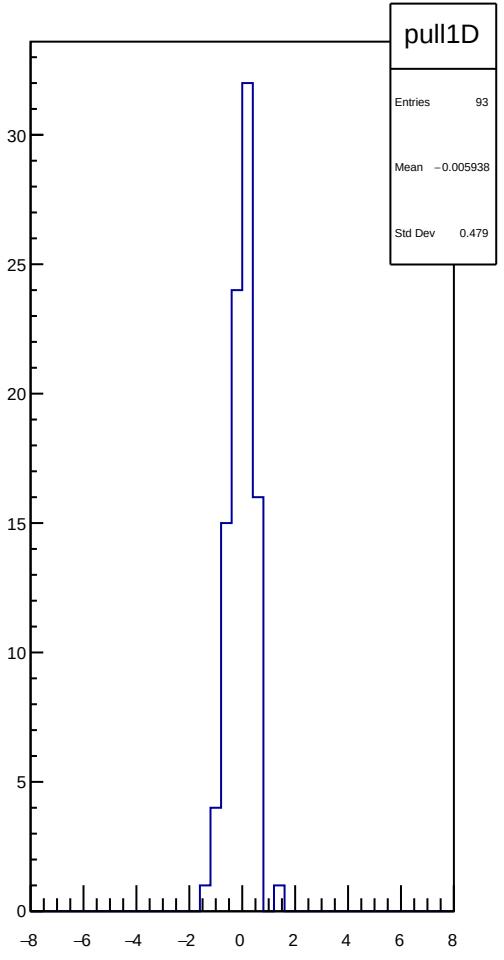

pull1D
Entries 93
Mean 0.002541
Std Dev 0.3266

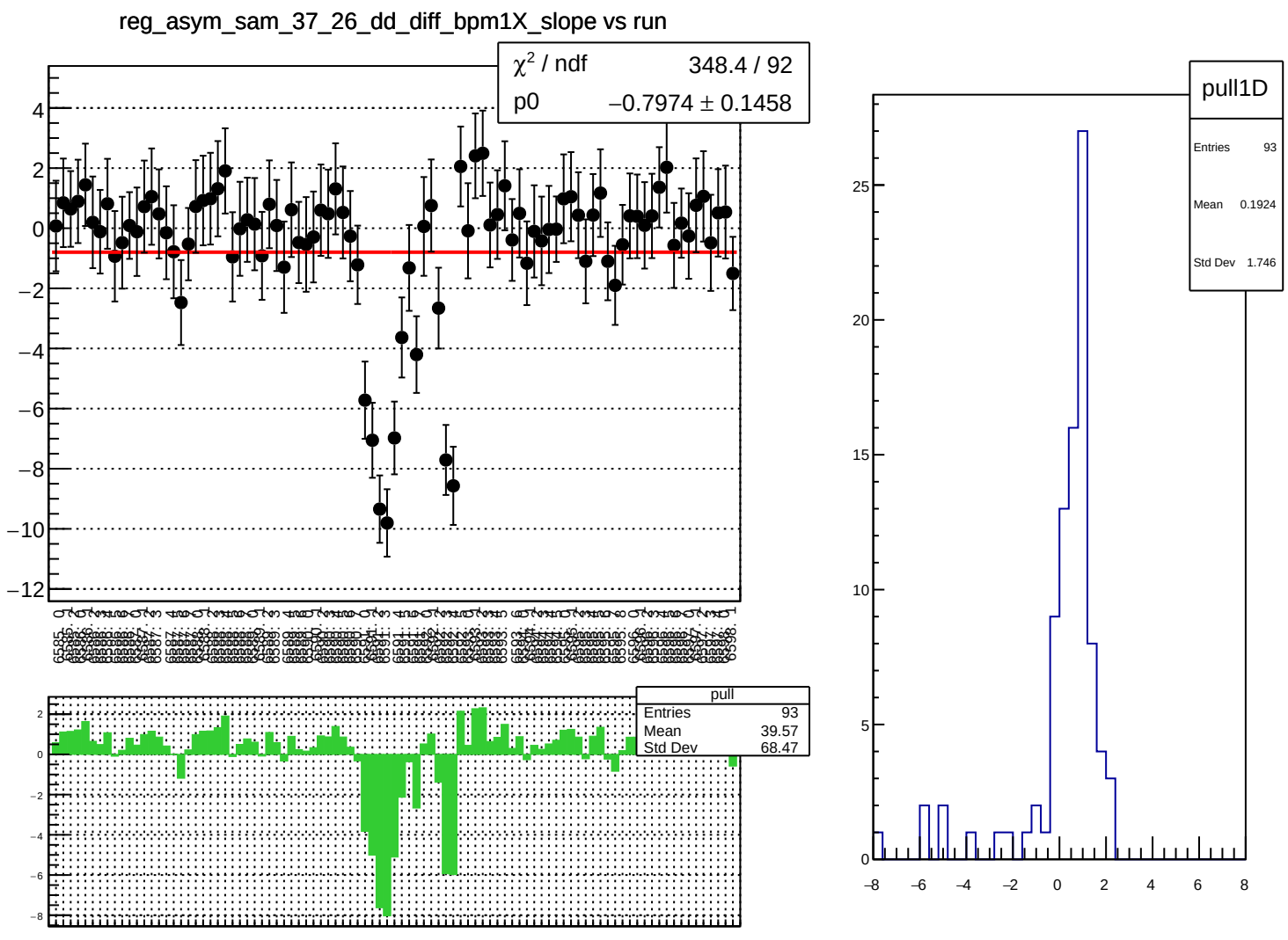

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.57 / 92
p0 −2.778 ± 0.2999
pull
Entries 93
Mean 322.6
Std Dev 0
pull1D
Entries 93
Mean 0.00605
Std Dev 0.627

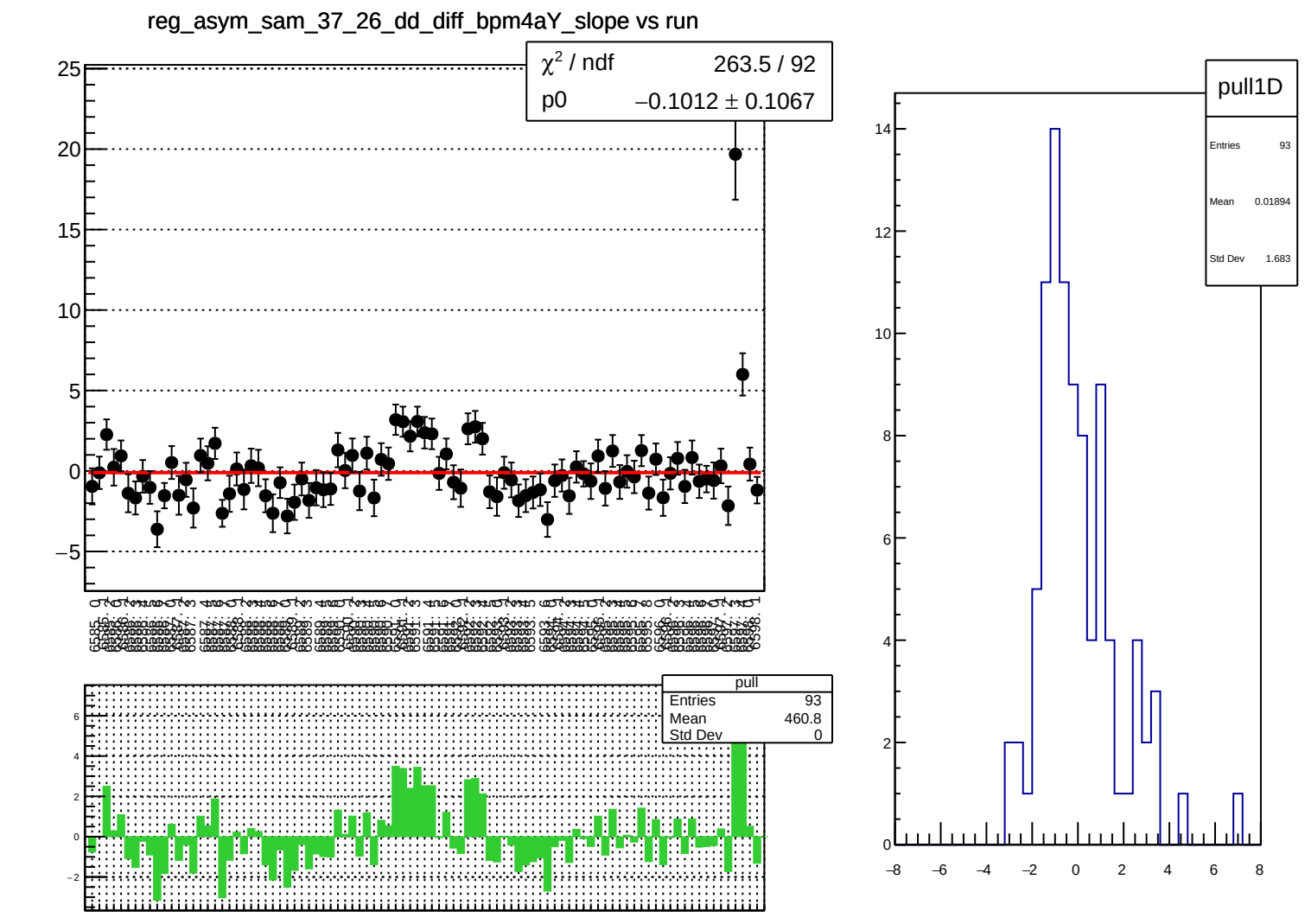

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.83 / 92
p0 30.87 ± 0.4219
pull
Entries 93
Mean −372.3
Std Dev 0
pull1D
Entries 93
Mean −0.006296
Std Dev 0.4499

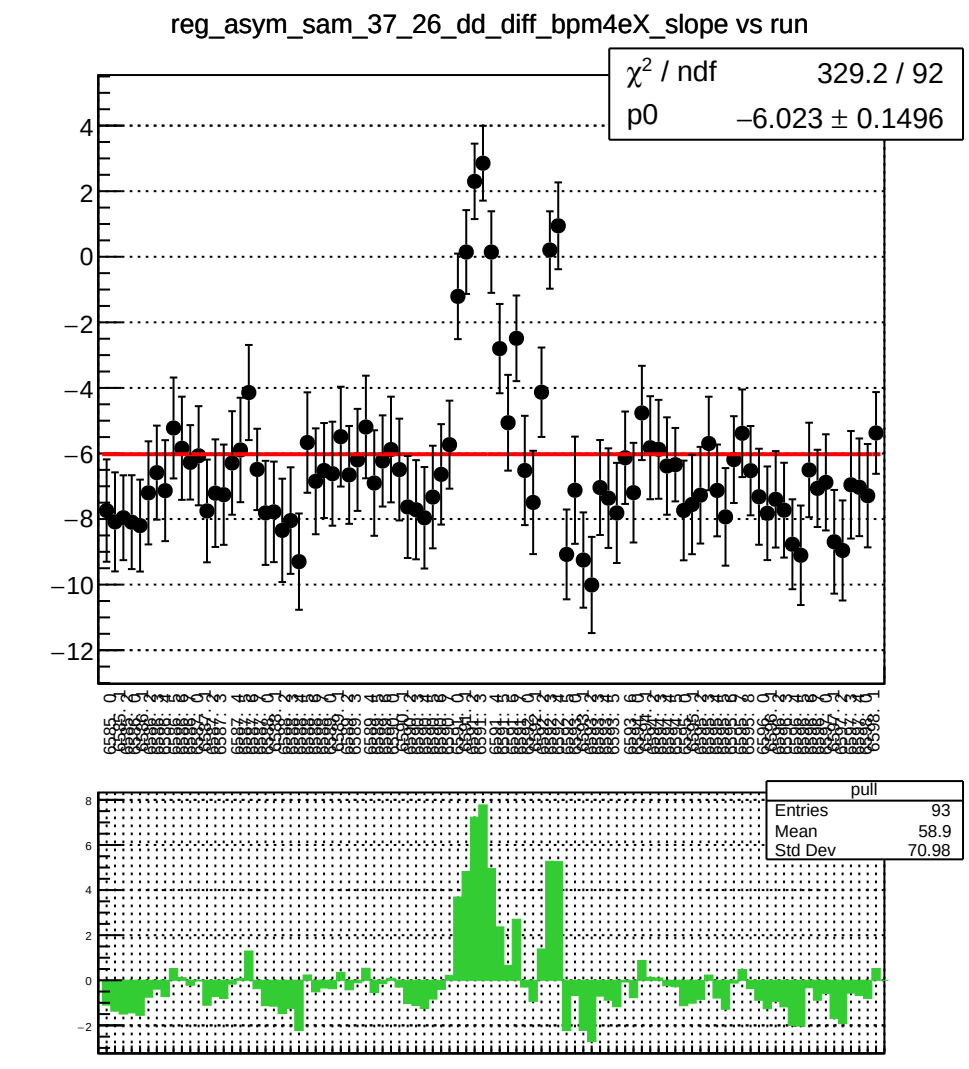

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.6 / 92
p0 48.04 ± 0.3573
pull
Entries 93
Mean 225.7
Std Dev 0
pull1D
Entries 93
Mean −0.003547
Std Dev 0.7732

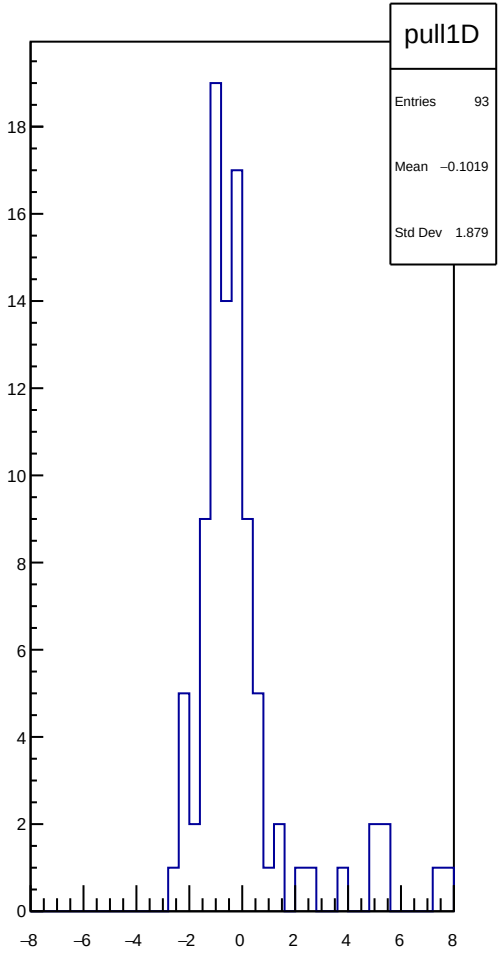

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 21.34 / 92
p0 −0.2826 ± 0.01726
pull
Entries 93
Mean −784.7
Std Dev 0

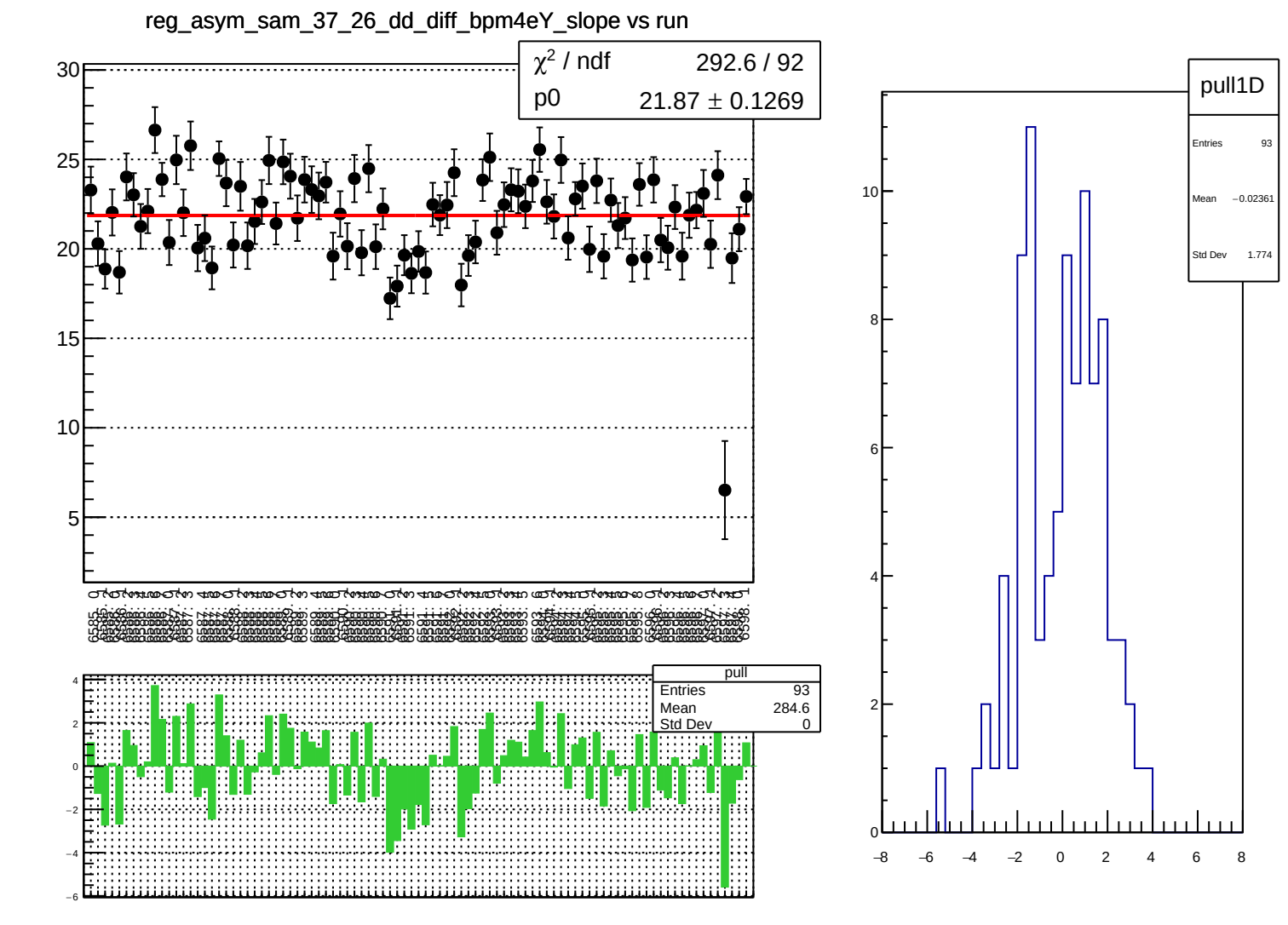

pull1D
Entries 93
Mean −0.005938
Std Dev 0.479

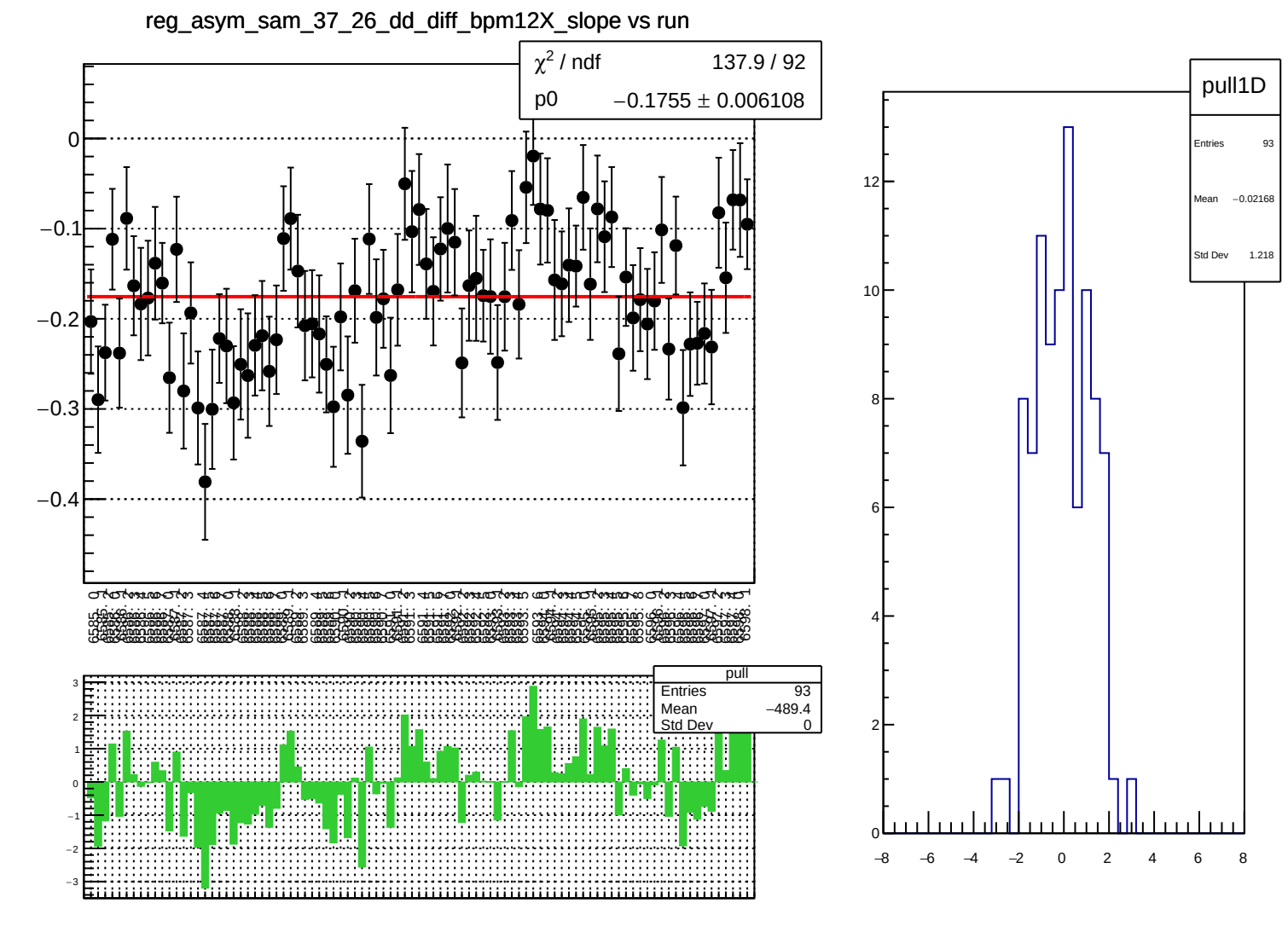

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 348.4 / 92
p0 −0.7974 ± 0.1458
pull
Entries 93
Mean 39.57
Std Dev 68.47
pull1D
Entries 93
Mean 0.1924
Std Dev 1.746

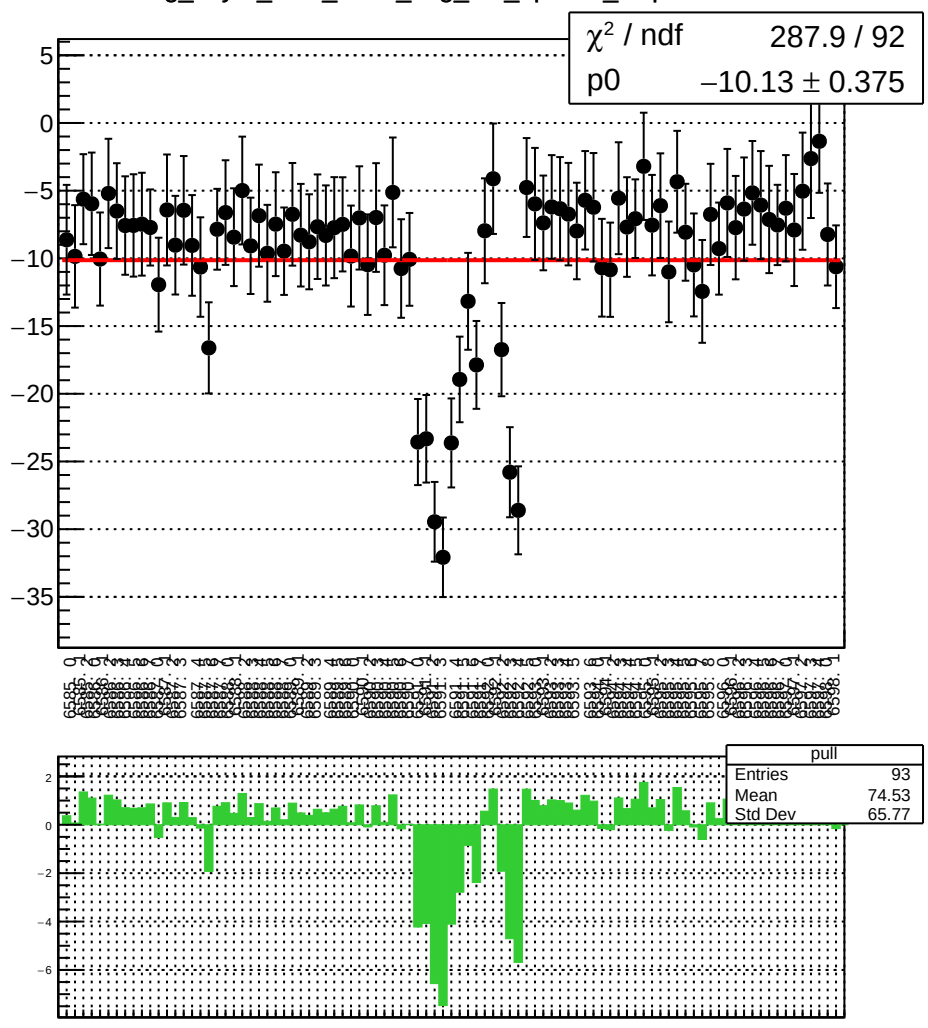

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 263.5 / 92
p0 −0.1012 ± 0.1067
pull
Entries 93
Mean 460.8
Std Dev 0
pull1D
Entries 93
Mean 0.01894
Std Dev 1.683

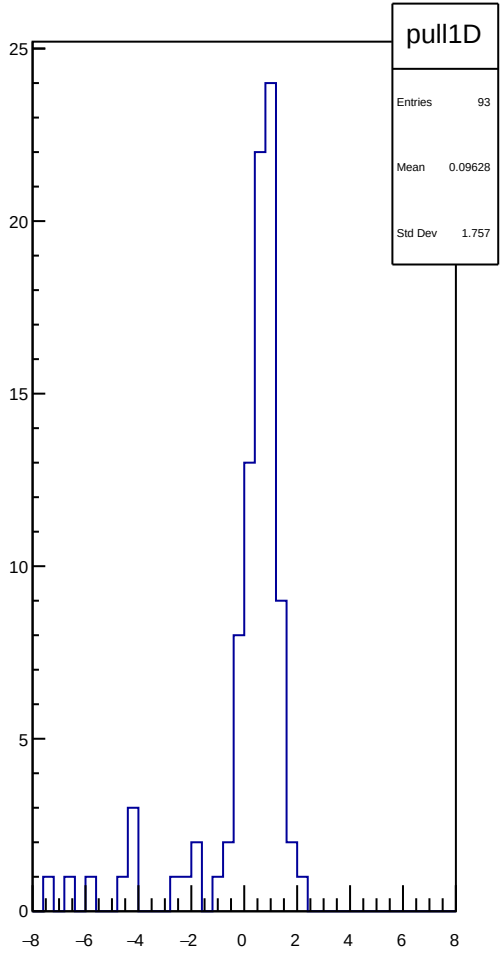

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 329.2 / 92
p0 −6.023 ± 0.1496
pull
Entries 93
Mean 58.9
Std Dev 70.98

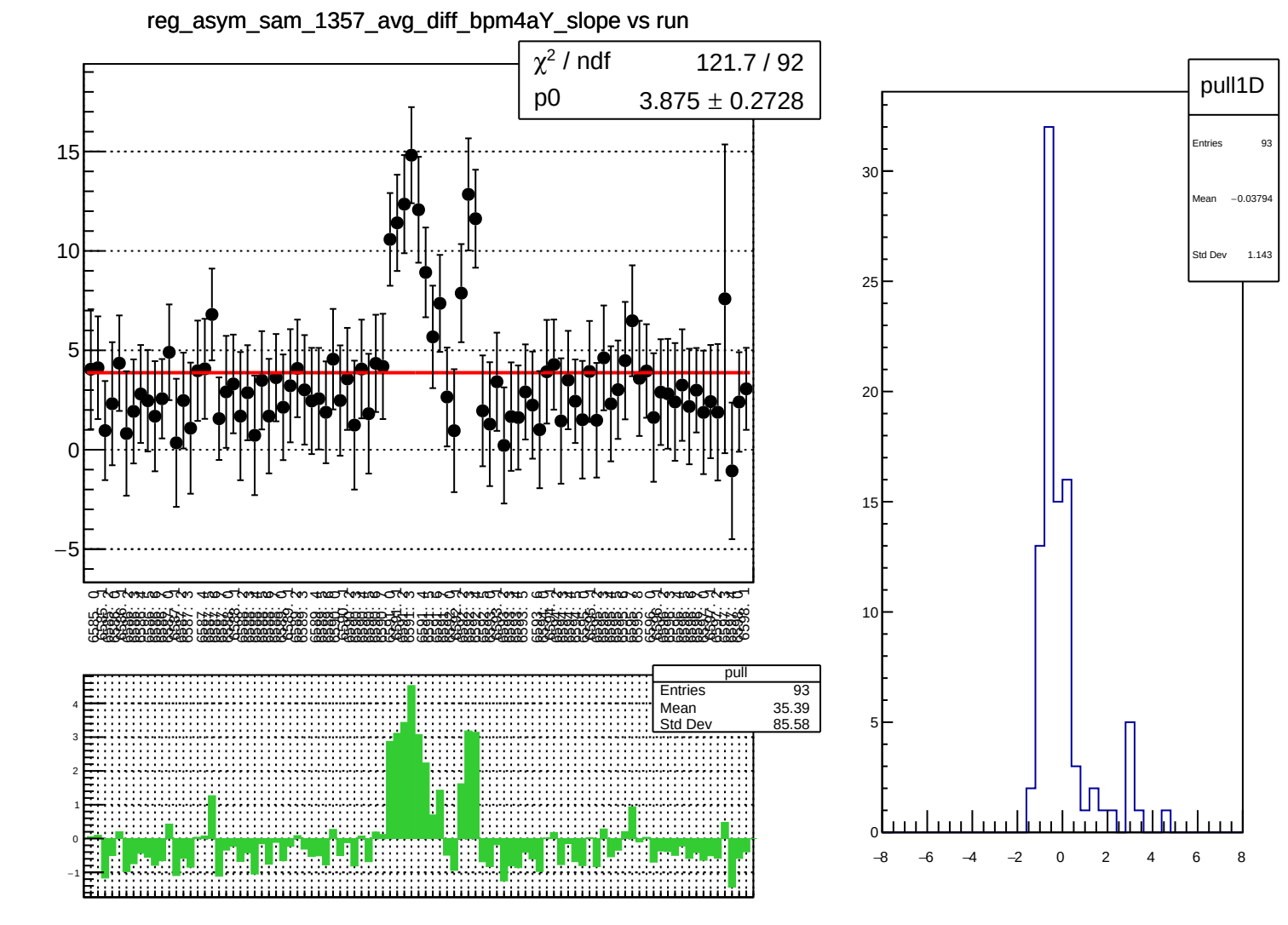

pull1D
Entries 93
Mean −0.1019
Std Dev 1.879

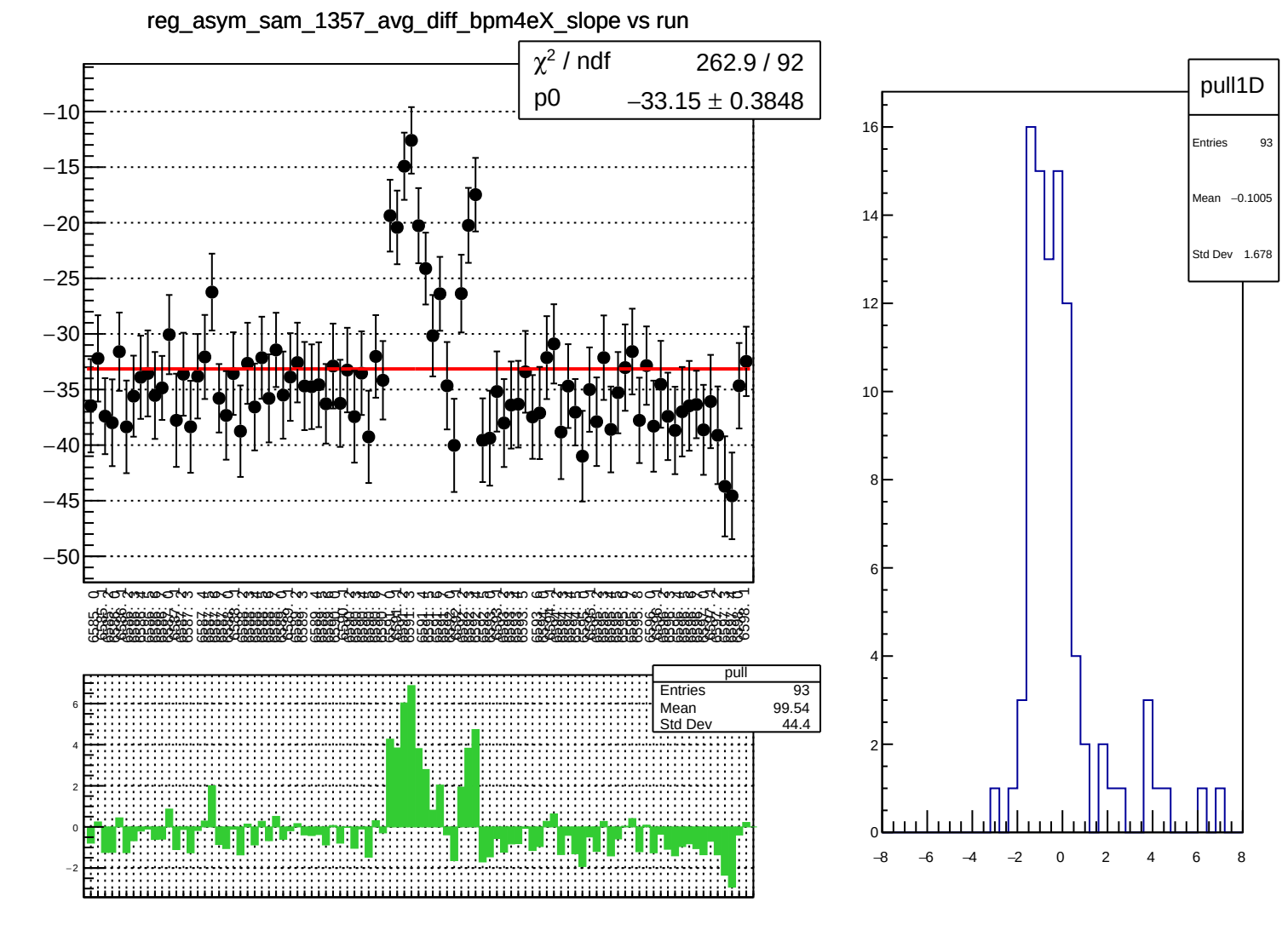

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 292.6 / 92
p0 21.87 ± 0.1269
pull
Entries 93
Mean 284.6
Std Dev 0
pull1D
Entries 93
Mean −0.02361
Std Dev 1.774

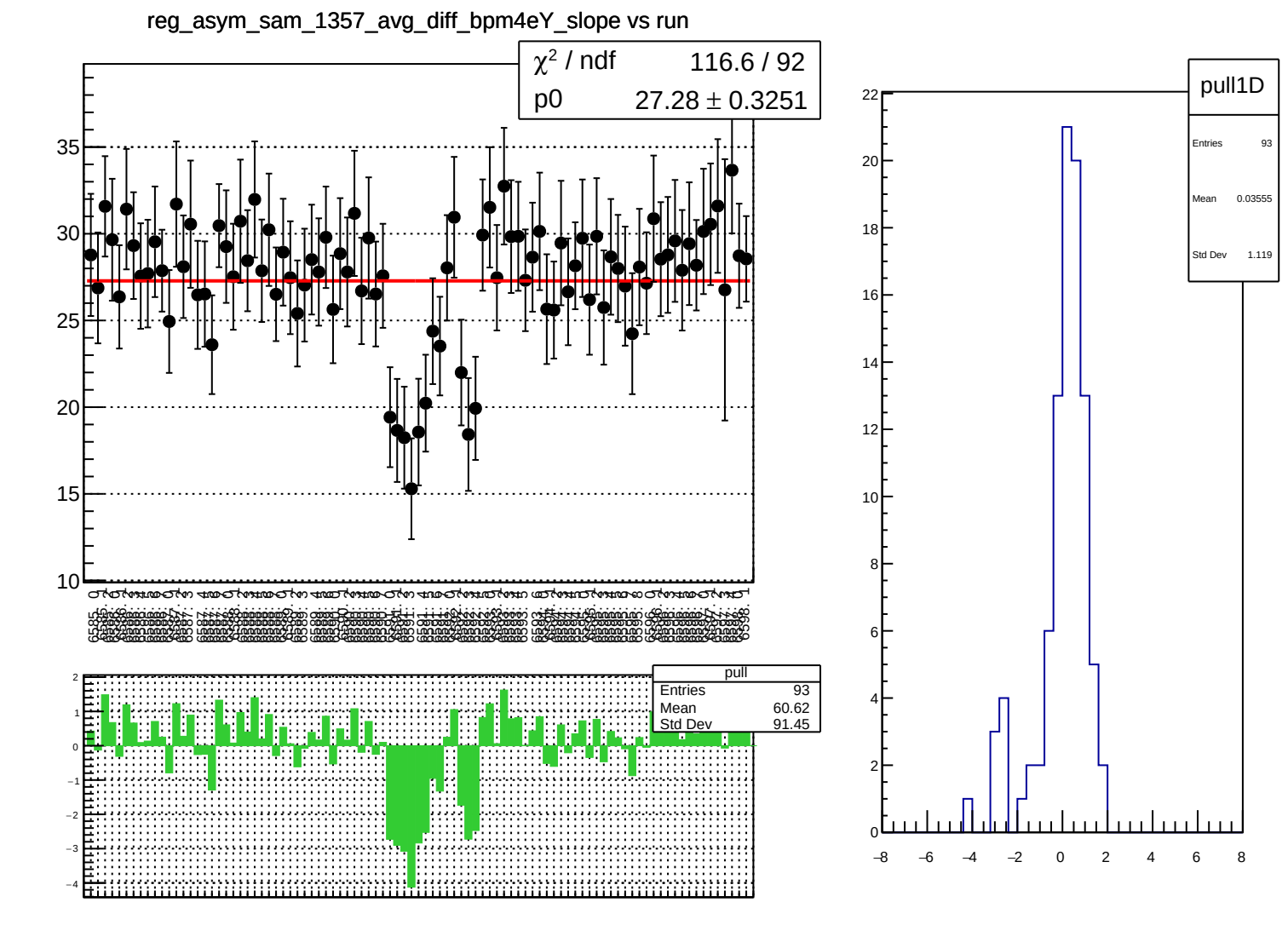

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 137.9 / 92
p0 −0.1755 ± 0.006108
pull
Entries 93
Mean −489.4
Std Dev 0
pull1D
Entries 93
Mean −0.02168
Std Dev 1.218

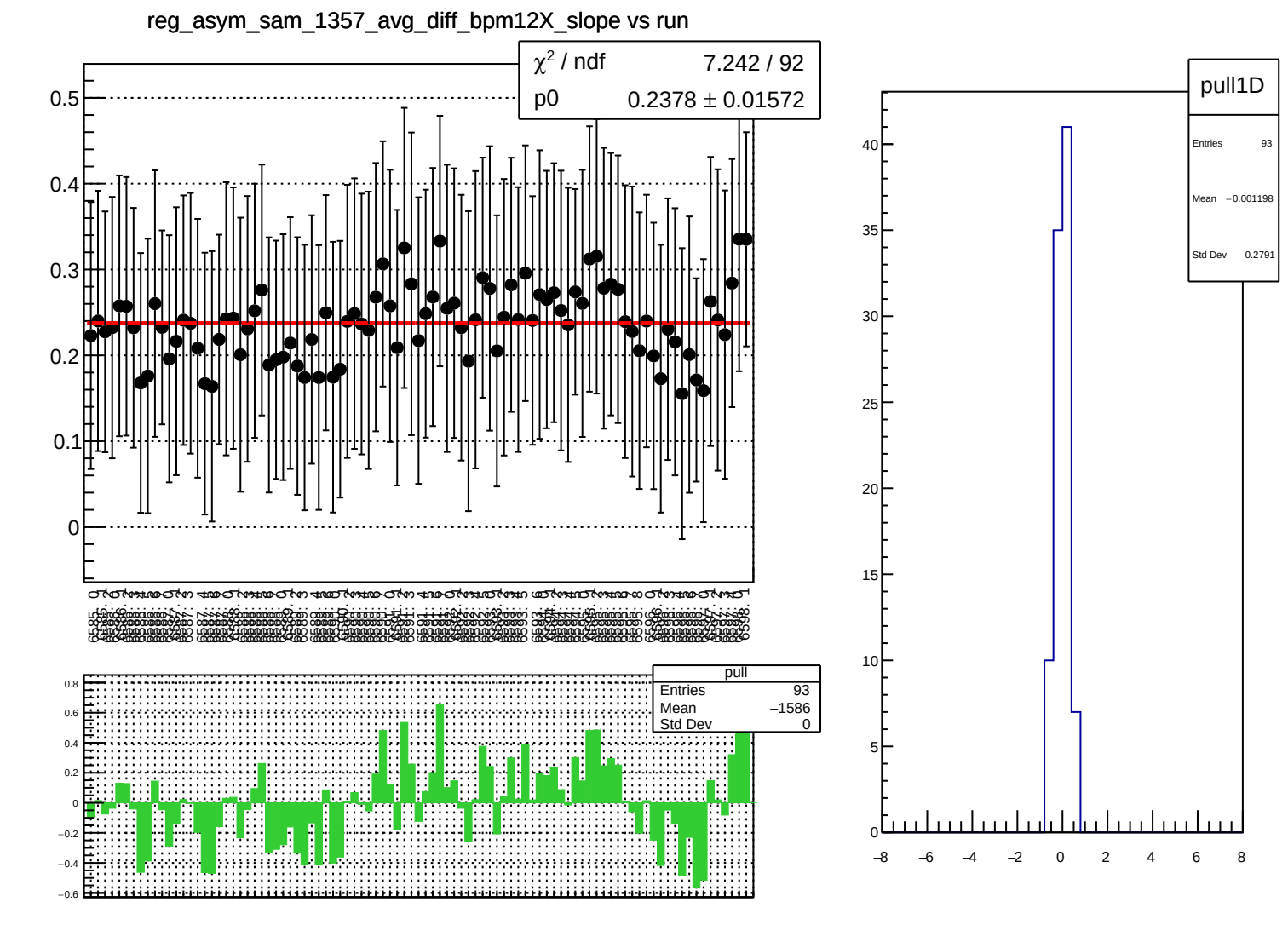

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 287.9 / 92
p0 −10.13 ± 0.375
pull
Entries 93
Mean 74.53
Std Dev 65.77

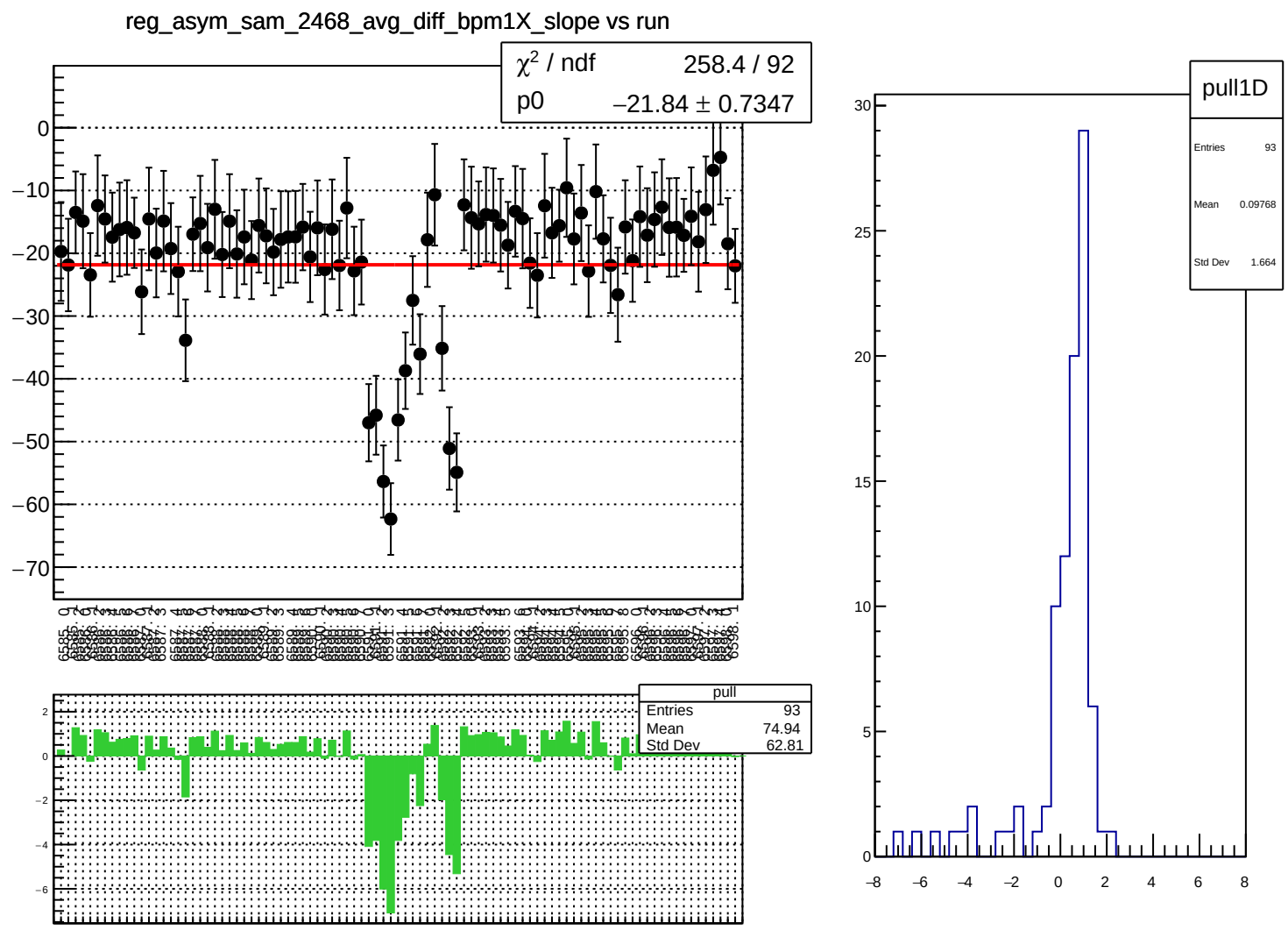

pull1D
Entries 93
Mean 0.09628
Std Dev 1.757

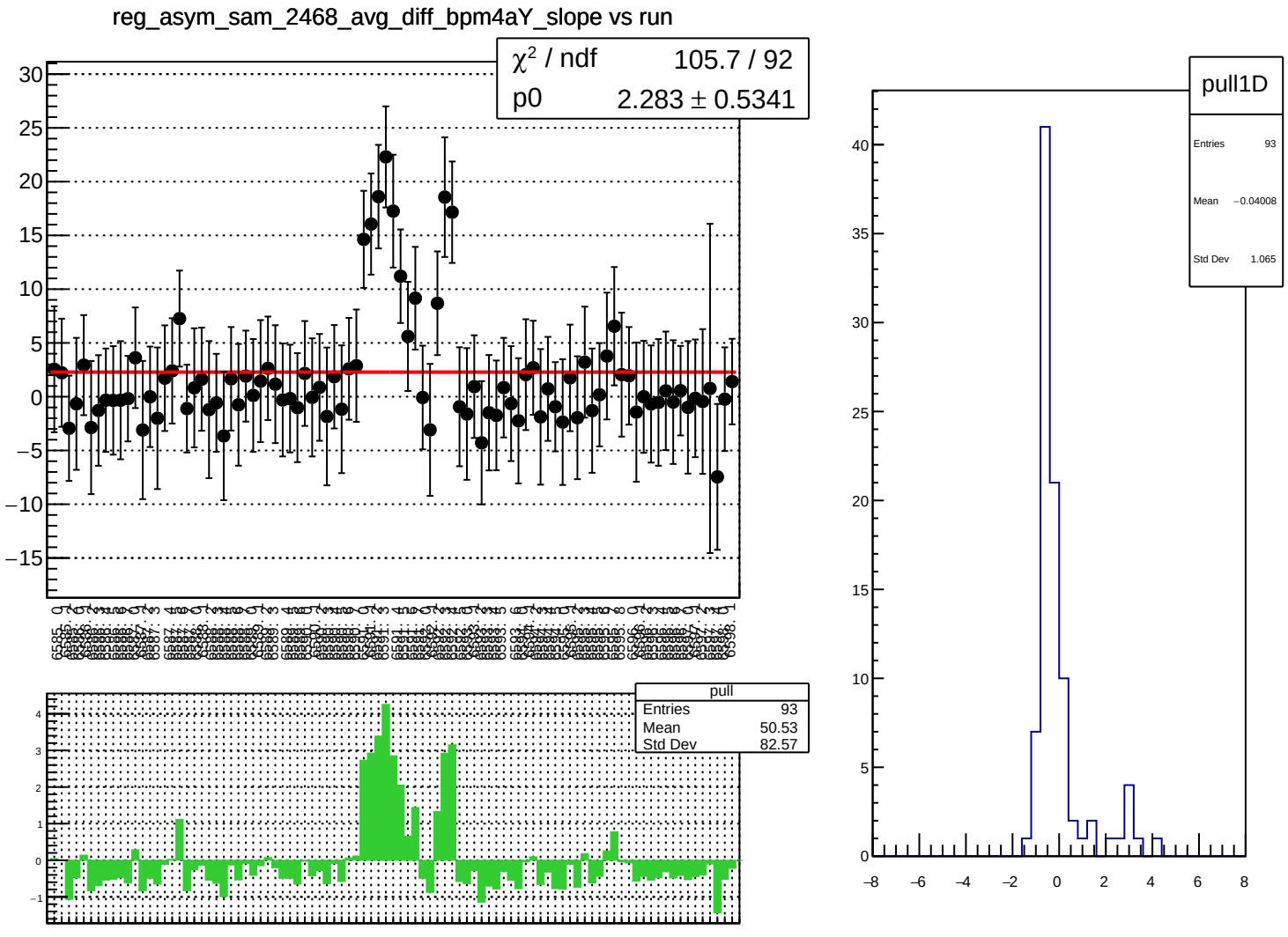

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 121.7 / 92
p0 3.875 ± 0.2728
pull
Entries 93
Mean 35.39
Std Dev 85.58
pull1D
Entries 93
Mean −0.03794
Std Dev 1.143

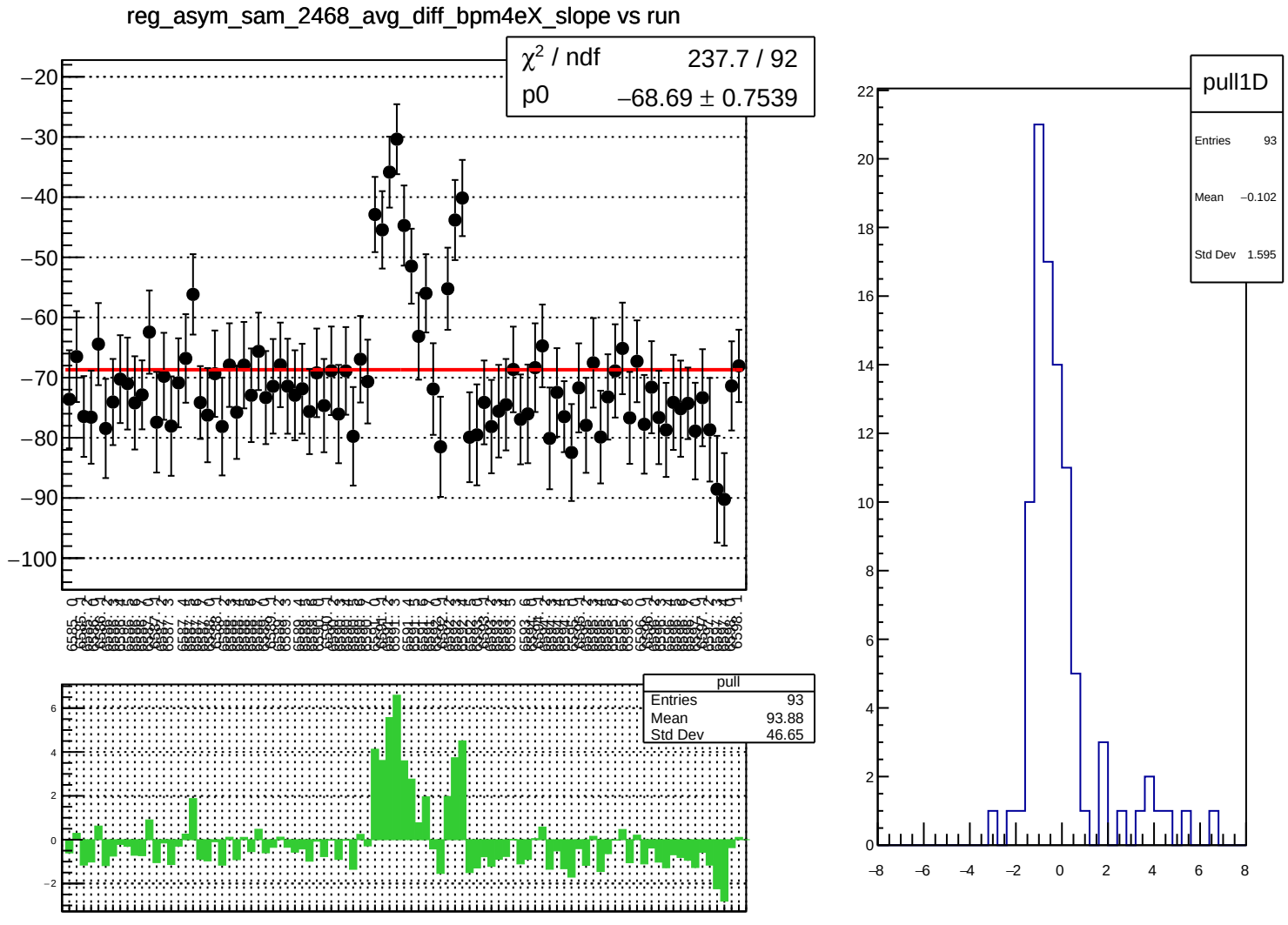

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 262.9 / 92
p0 −33.15 ± 0.3848
pull
Entries 93
Mean 99.54
Std Dev 44.4
pull1D
Entries 93
Mean −0.1005
Std Dev 1.678

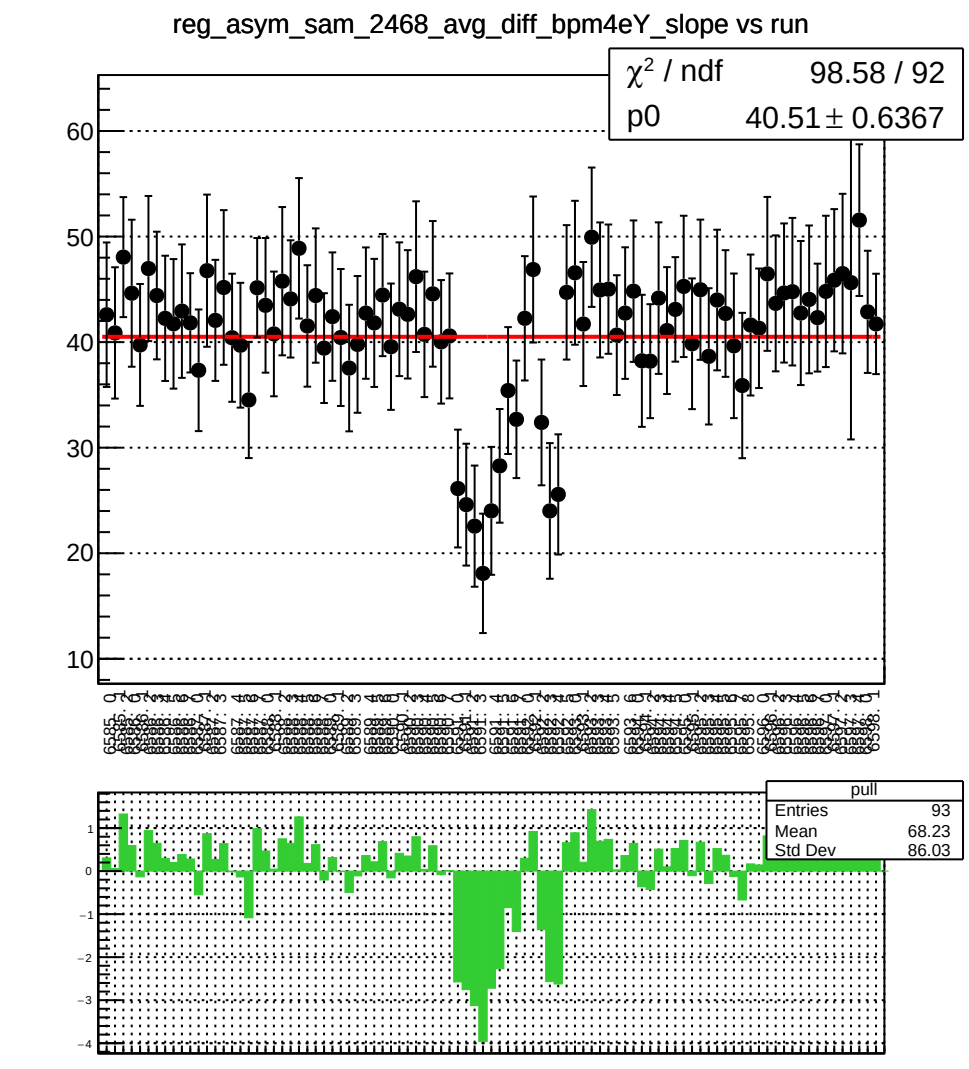

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 116.6 / 92
p0 27.28 ± 0.3251
pull
Entries 93
Mean 60.62
Std Dev 91.45
pull1D
Entries 93
Mean 0.03555
Std Dev 1.119

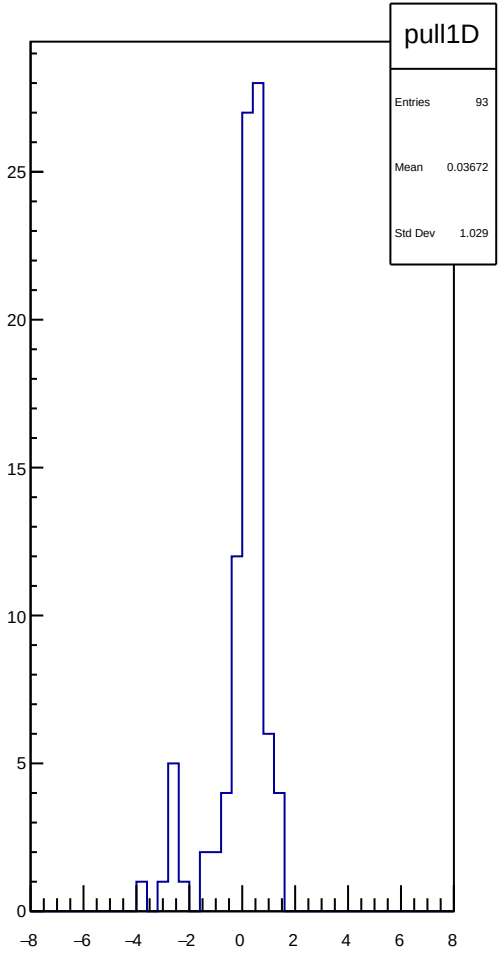

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 7.242 / 92
p0 0.2378 ± 0.01572
pull
Entries 93
Mean −1586
Std Dev 0
pull1D
Entries 93
Mean −0.001198
Std Dev 0.2791

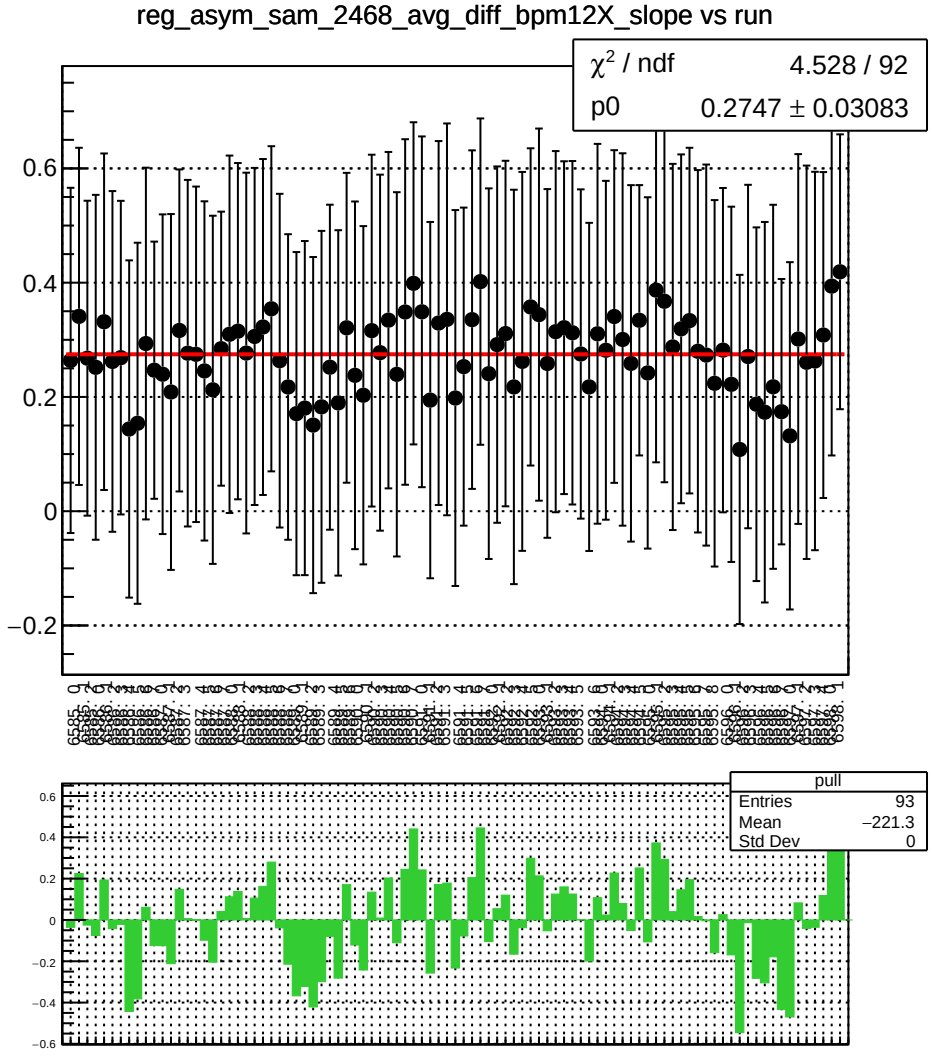

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 258.4 / 92
p0 −21.84 ± 0.7347
pull
Entries 93
Mean 74.94
Std Dev 62.81
pull1D
Entries 93
Mean 0.09768
Std Dev 1.664

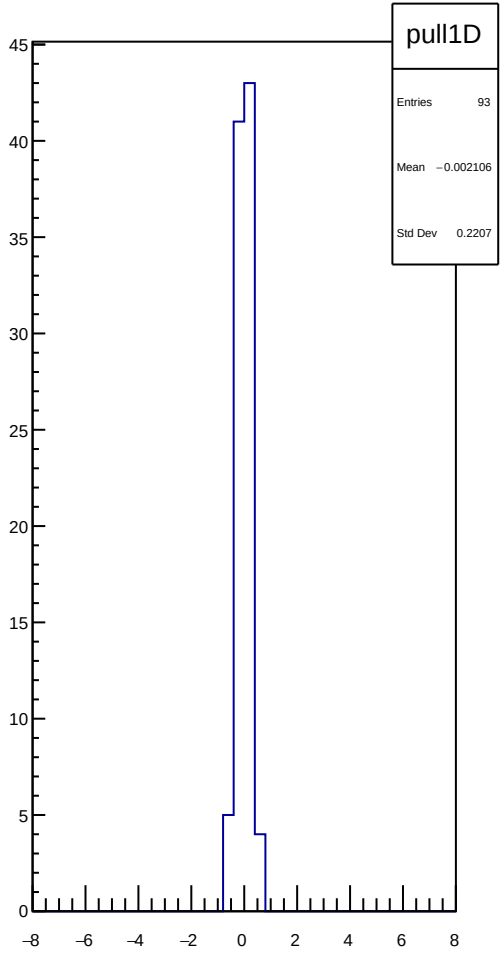

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 105.7 / 92
p0 2.283 ± 0.5341
pull
Entries 93
Mean 50.53
Std Dev 82.57
pull1D
Entries 93
Mean −0.04008
Std Dev 1.065

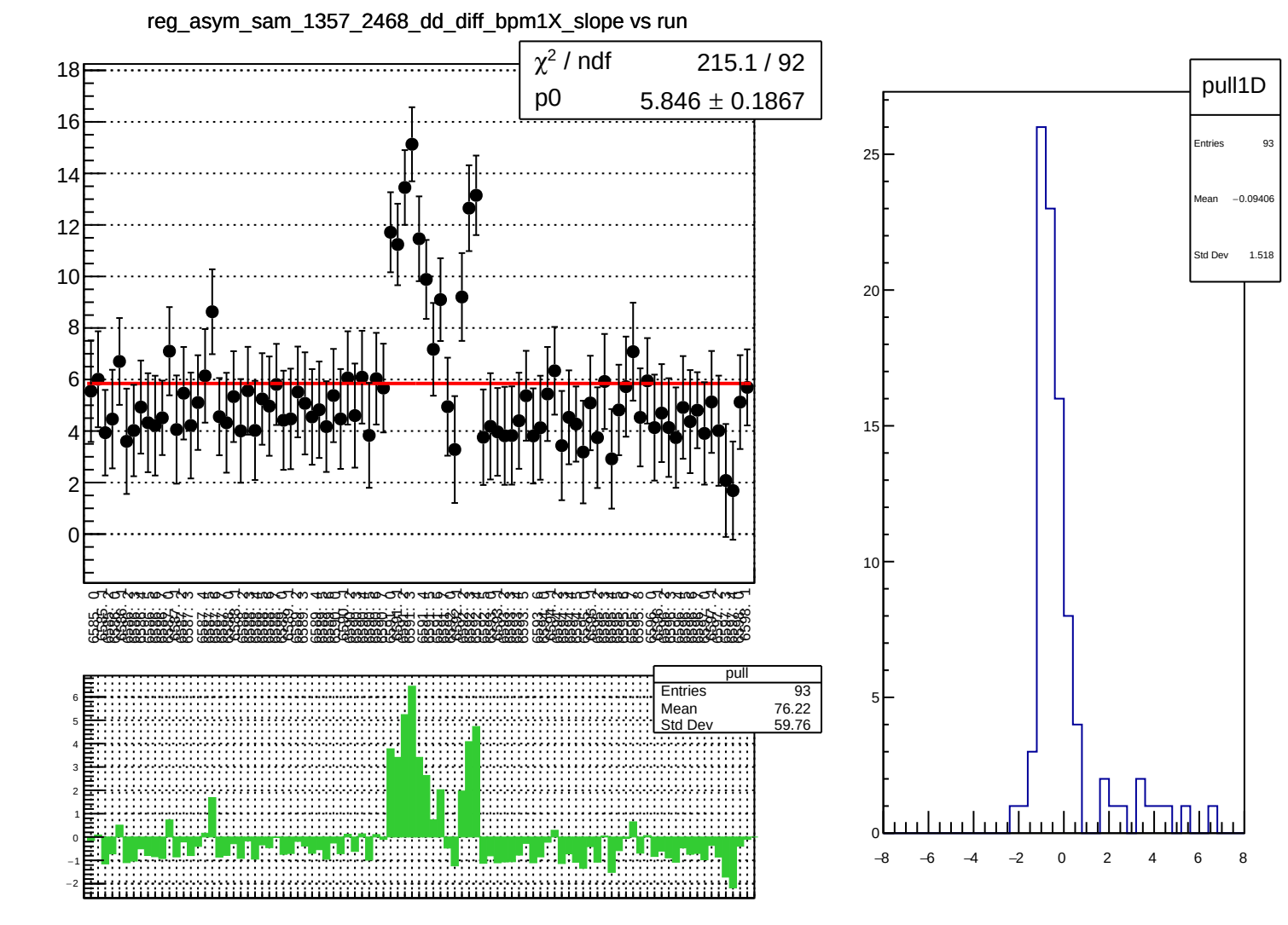

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 237.7 / 92
p0 −68.69 ± 0.7539
pull
Entries 93
Mean 93.88
Std Dev 46.65
pull1D
Entries 93
Mean −0.102
Std Dev 1.595

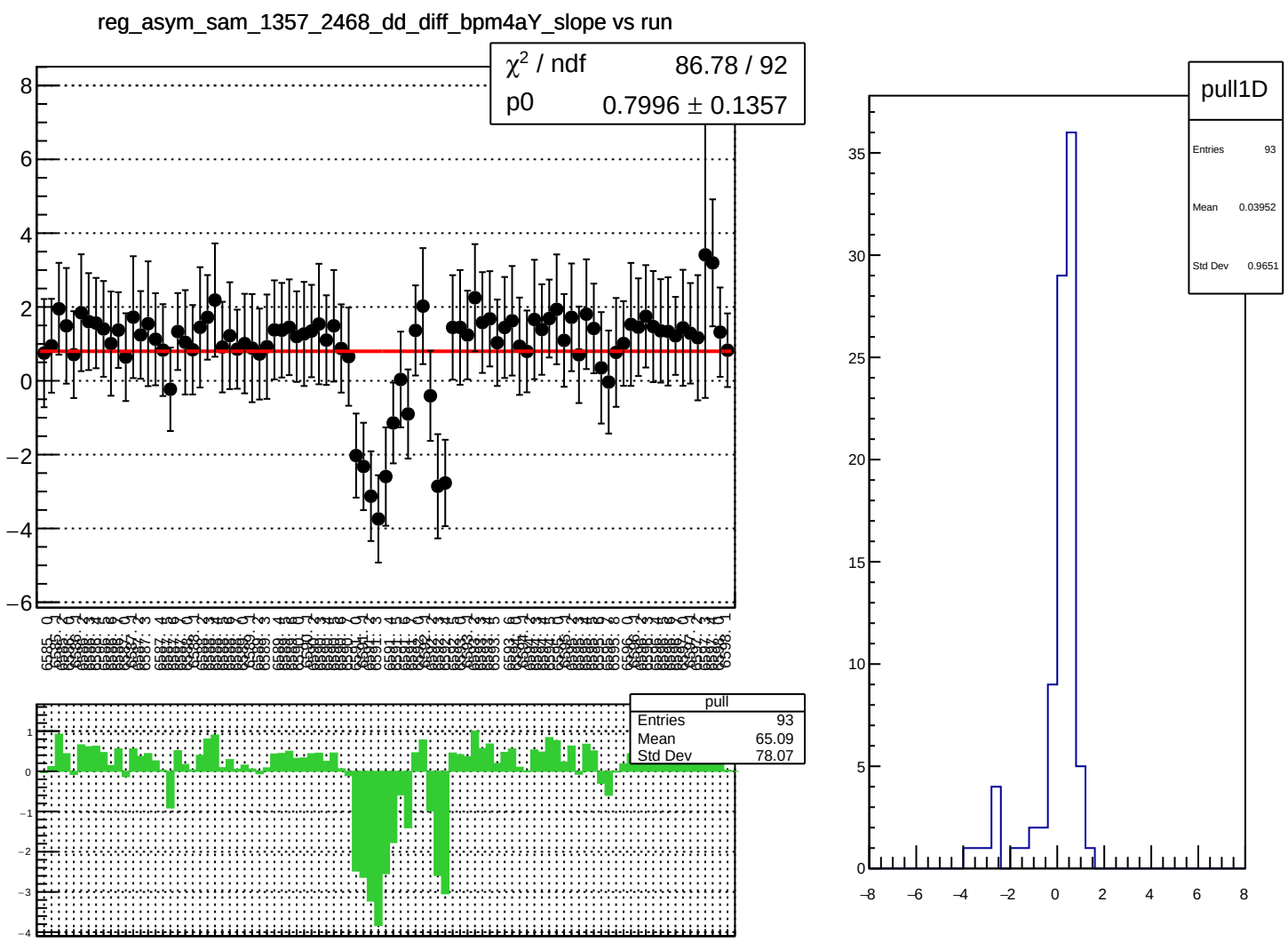

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.58 / 92
p0 40.51 ± 0.6367
pull
Entries 93
Mean 68.23
Std Dev 86.03

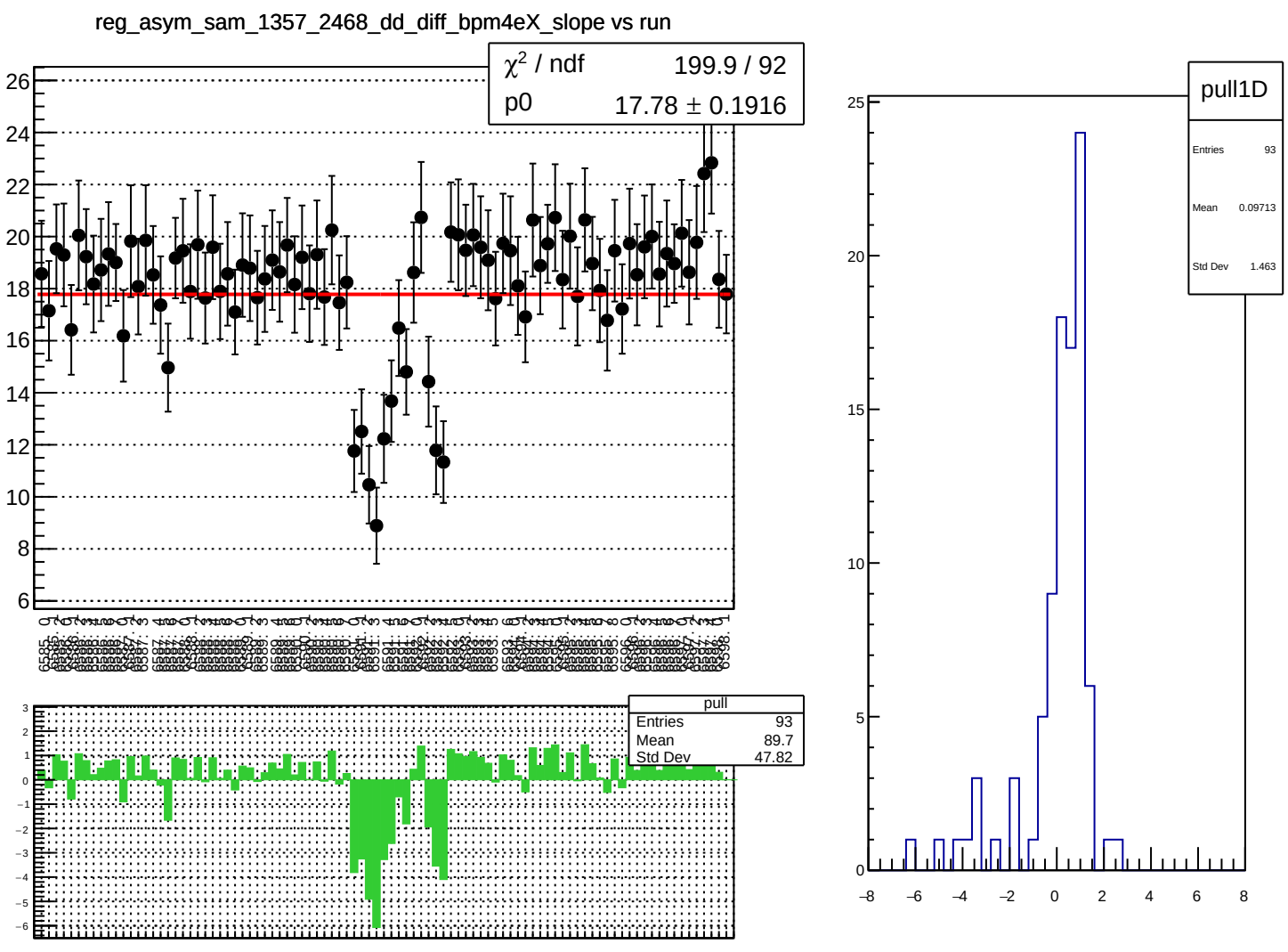

pull1D
Entries 93
Mean 0.03672
Std Dev 1.029

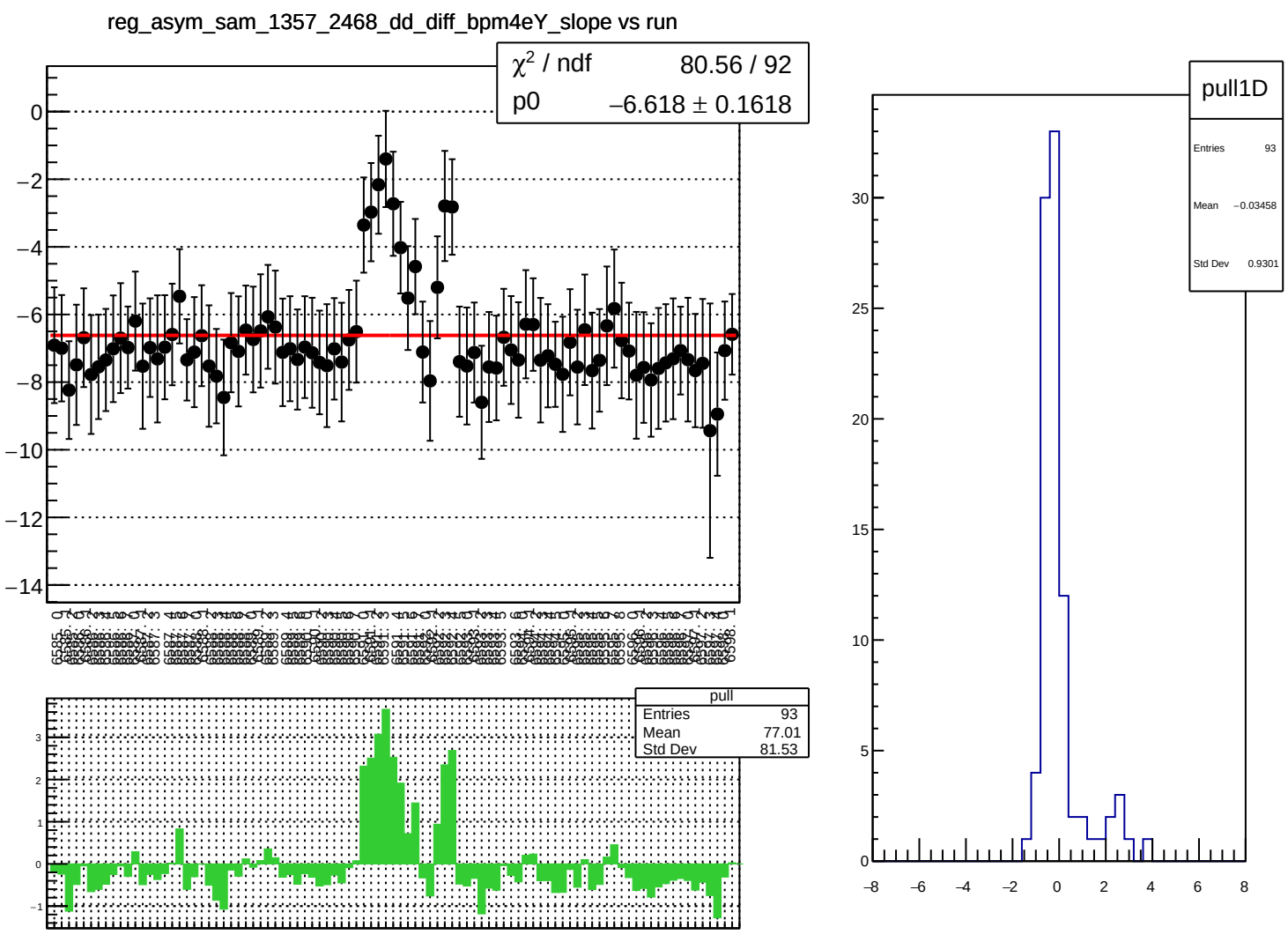

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 4.528 / 92
p0 0.2747 ± 0.03083
pull
Entries 93
Mean −221.3
Std Dev 0

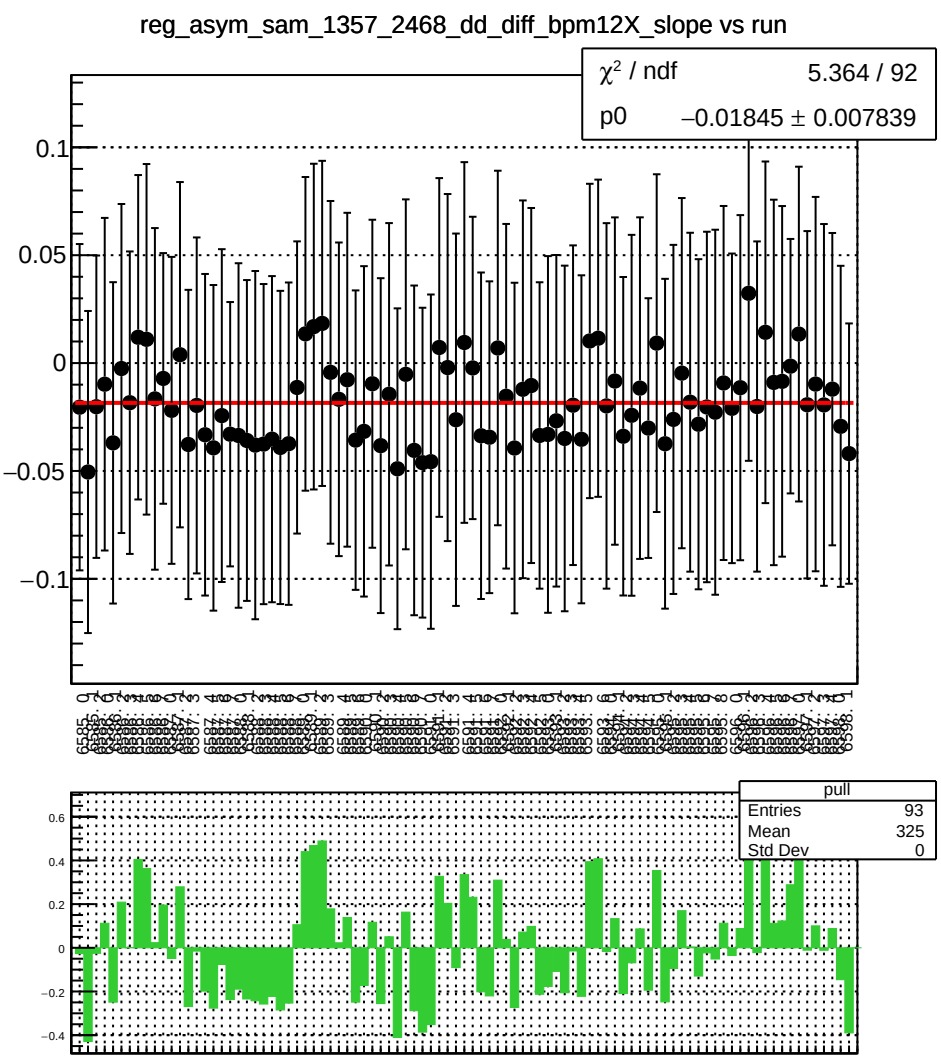

pull1D
Entries 93
Mean −0.002106
Std Dev 0.2207

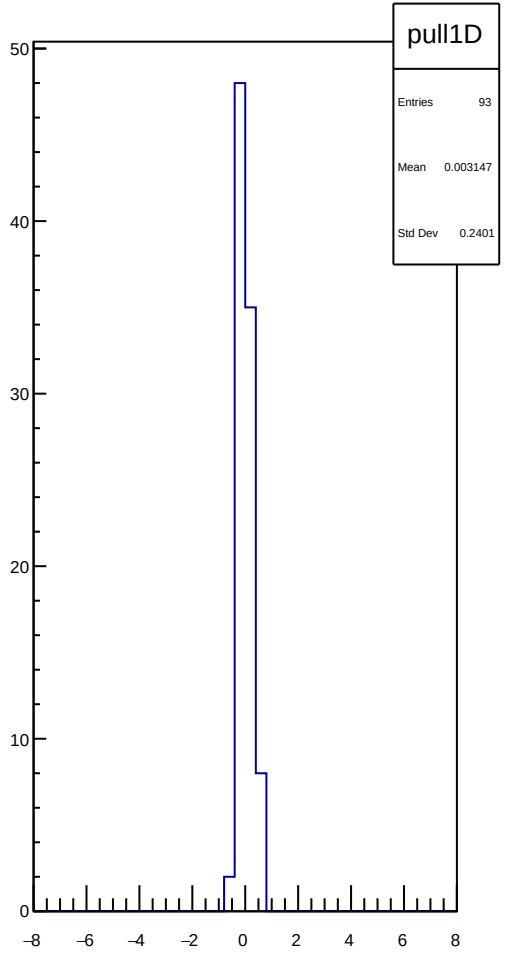

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 215.1 / 92
p0 5.846 ± 0.1867
pull
Entries 93
Mean 76.22
Std Dev 59.76
pull1D
Entries 93
Mean −0.09406
Std Dev 1.518

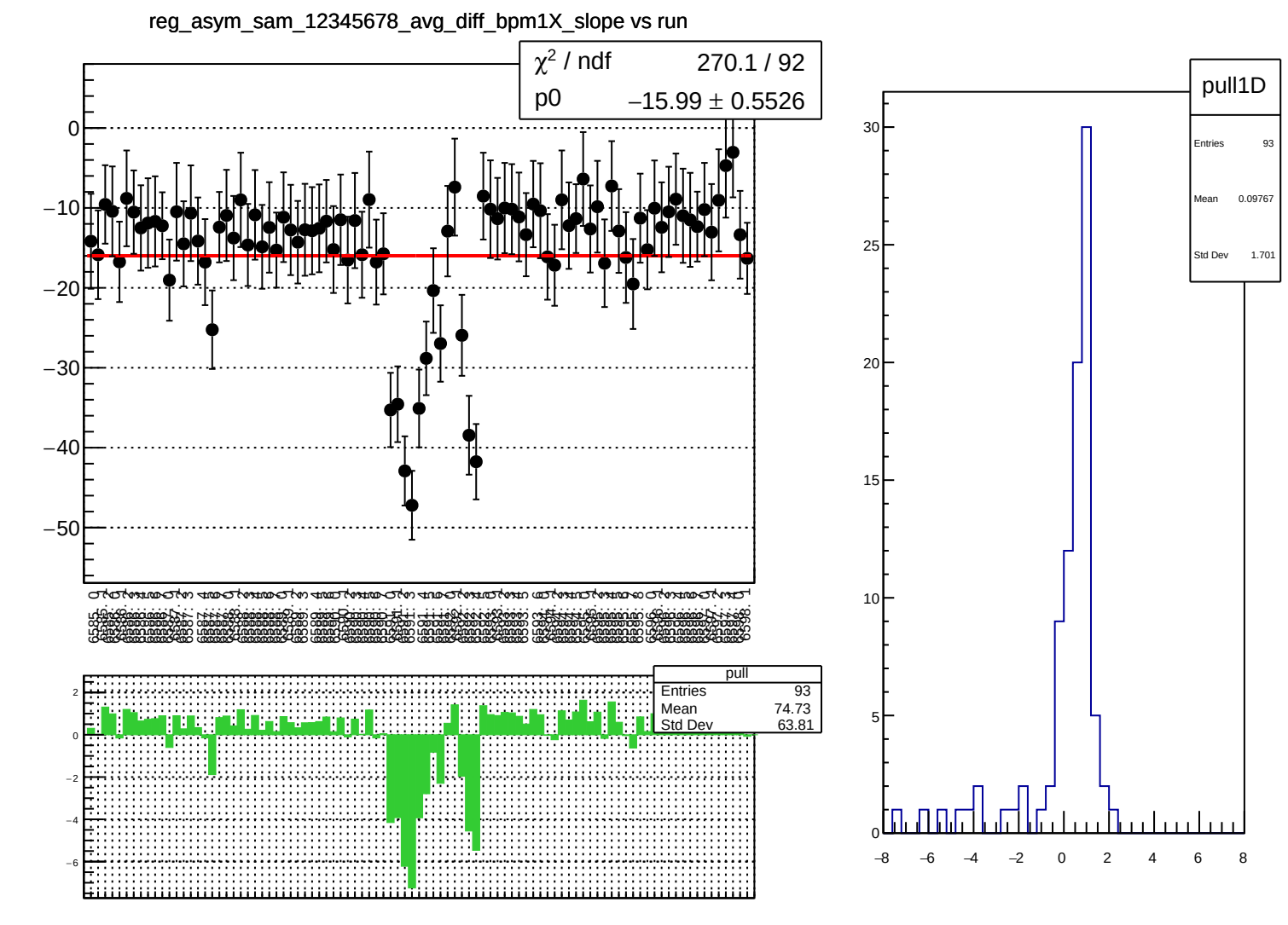

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.78 / 92
p0 0.7996 ± 0.1357
pull
Entries 93
Mean 65.09
Std Dev 78.07
pull1D
Entries 93
Mean 0.03952
Std Dev 0.9651

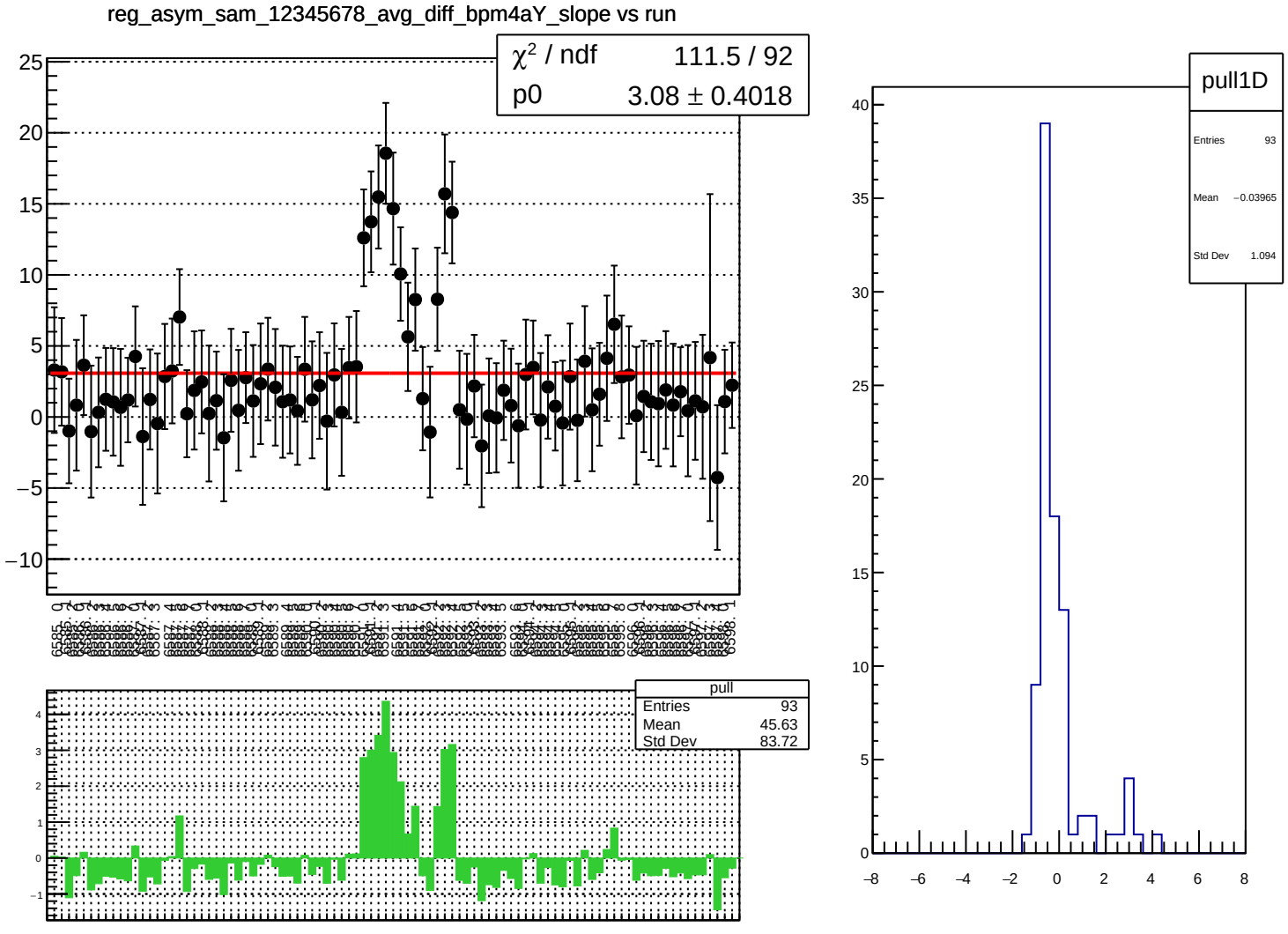

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 199.9 / 92
p0 17.78 ± 0.1916
pull
Entries 93
Mean 89.7
Std Dev 47.82
pull1D
Entries 93
Mean 0.09713
Std Dev 1.463

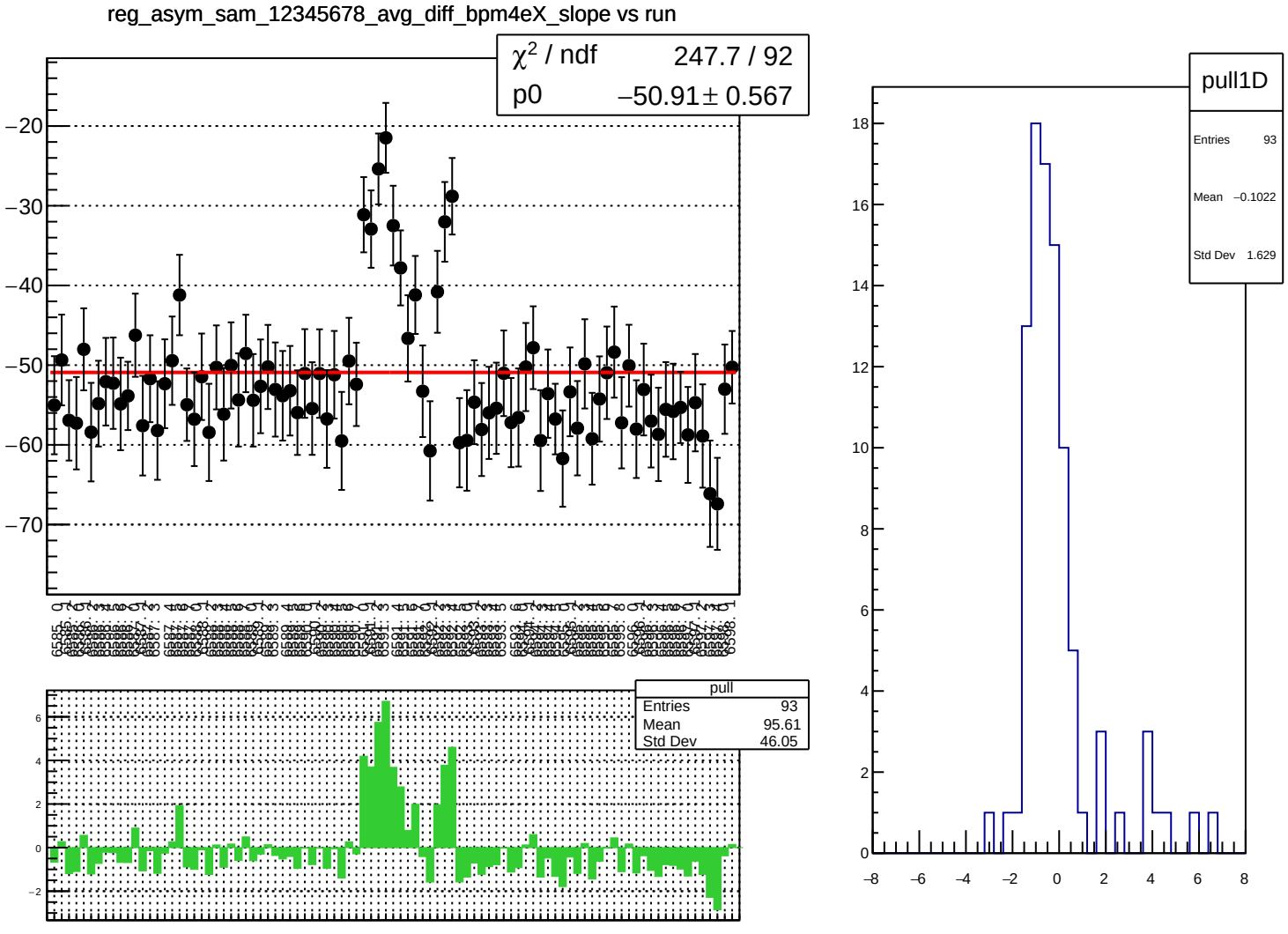

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.56 / 92
p0 −6.618 ± 0.1618
pull
Entries 93
Mean 77.01
Std Dev 81.53
pull1D
Entries 93
Mean −0.03458
Std Dev 0.9301

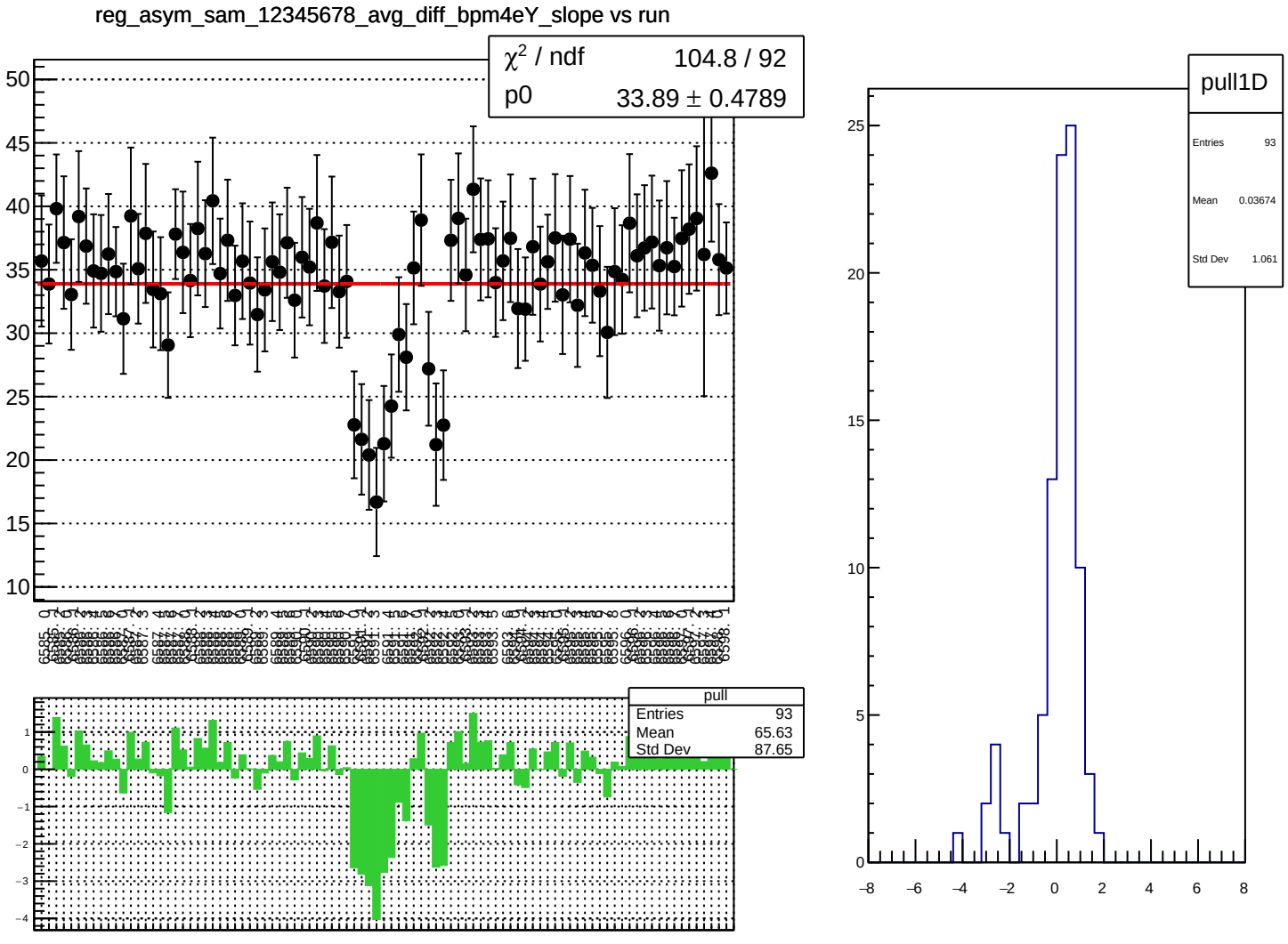

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 5.364 / 92
p0 −0.01845 ± 0.007839
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 325
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

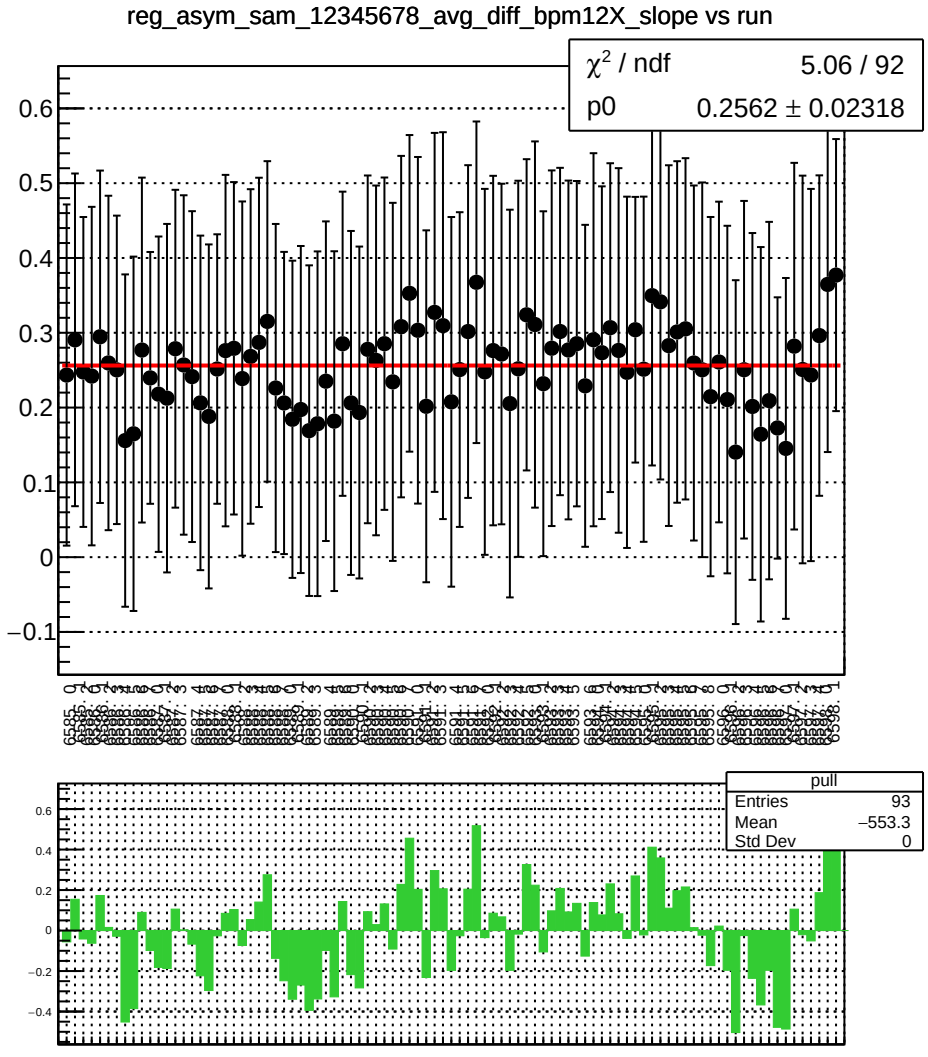

pull1D
Entries 93
Mean 0.003147
Std Dev 0.2401
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

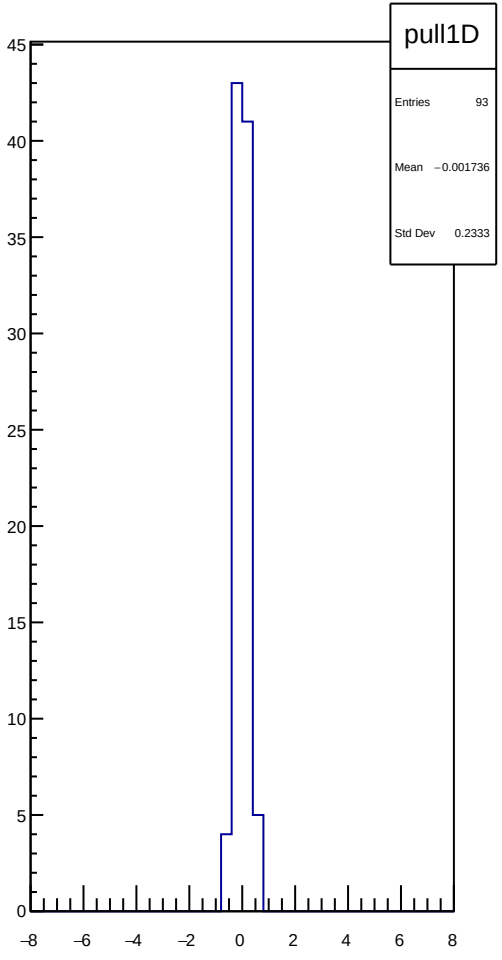

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 270.1 / 92
p0 −15.99 ± 0.5526
pull
Entries 93
Mean 74.73
Std Dev 63.81
pull1D
Entries 93
Mean 0.09767
Std Dev 1.701

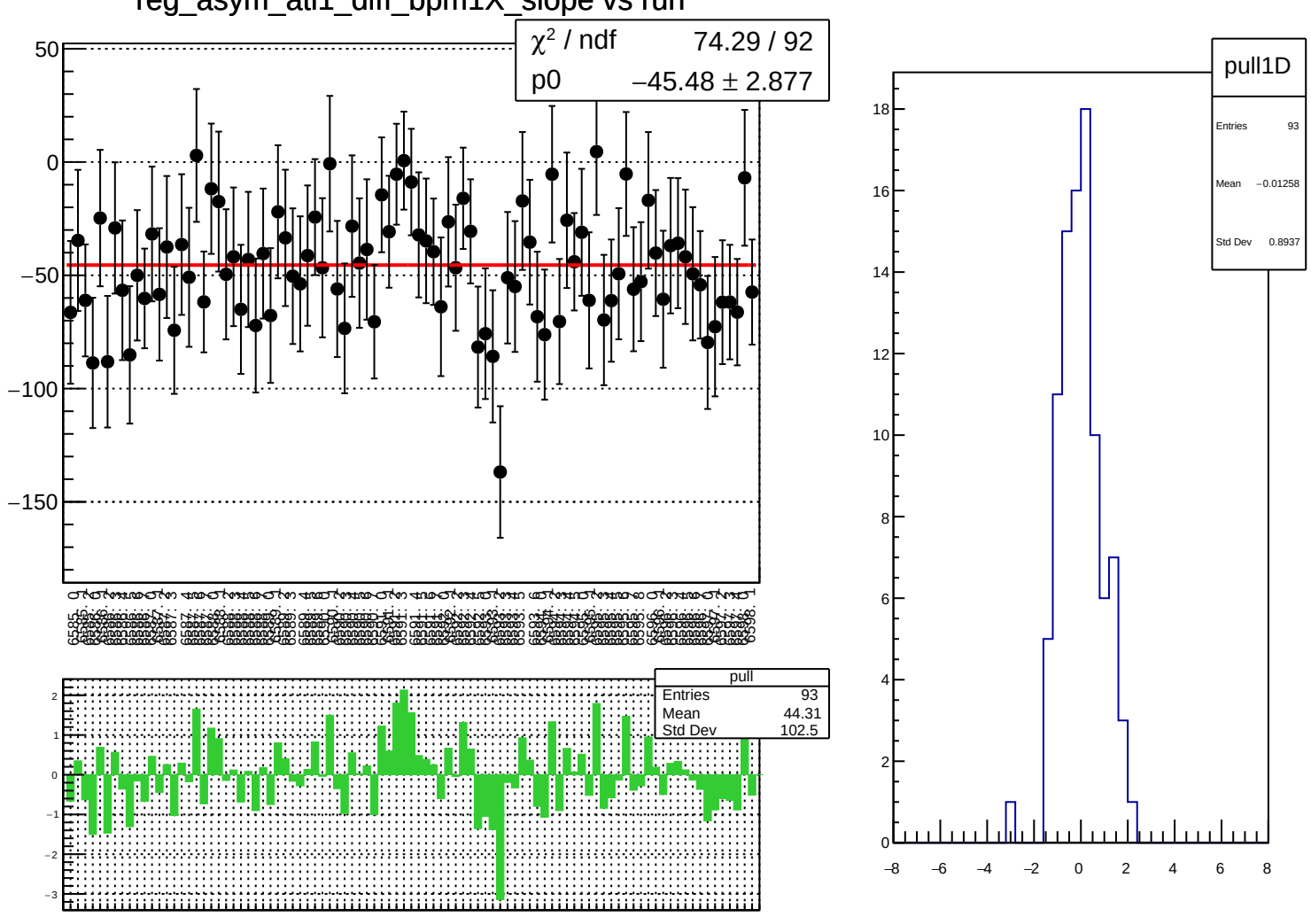

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 111.5 / 92
p0 3.08 ± 0.4018
pull
Entries 93
Mean 45.63
Std Dev 83.72
pull1D
Entries 93
Mean −0.03965
Std Dev 1.094

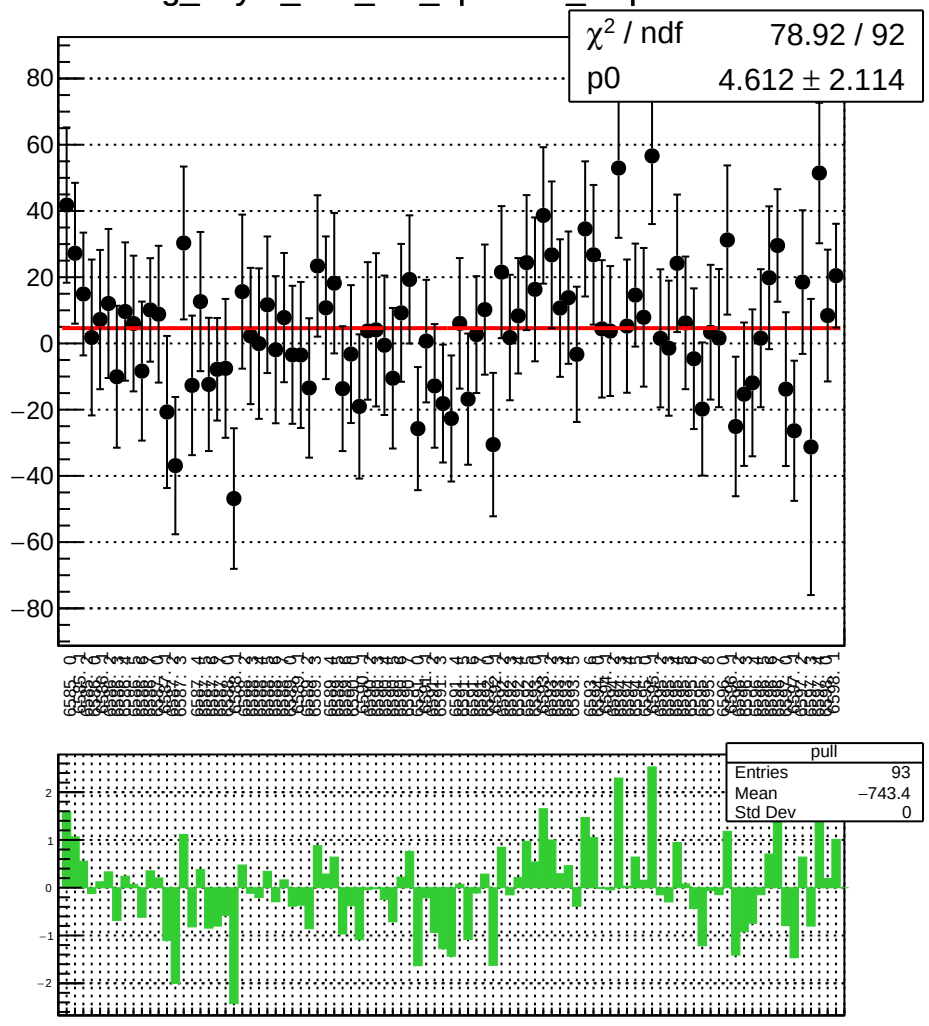

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 247.7 / 92
p0 −50.91 ± 0.567
−20
−30
−40
−50
−60
−70
pull
Entries 93
Mean 95.61
Std Dev 46.05
6
4
2
0
−2
pull1D
Entries 93
Mean −0.1022
Std Dev 1.629
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

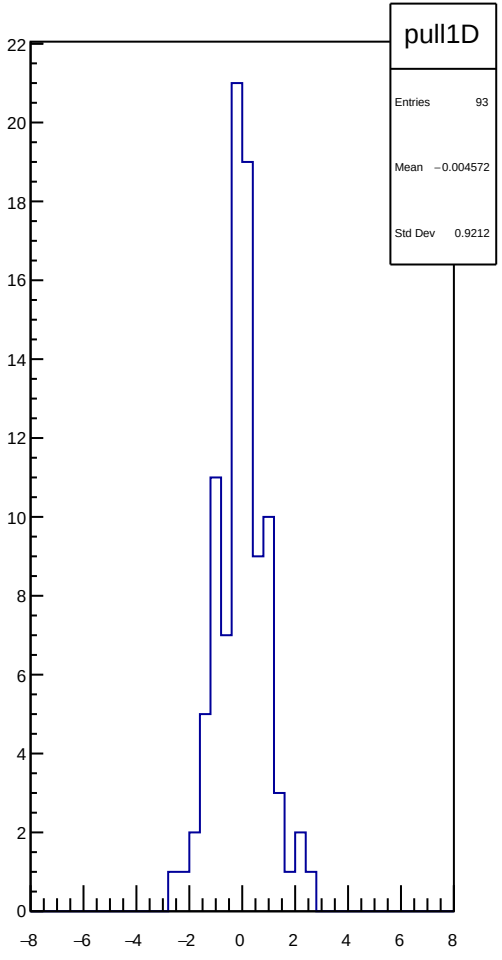

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 104.8 / 92
p0 33.89 ± 0.4789
pull
Entries 93
Mean 65.63
Std Dev 87.65
pull1D
Entries 93
Mean 0.03674
Std Dev 1.061

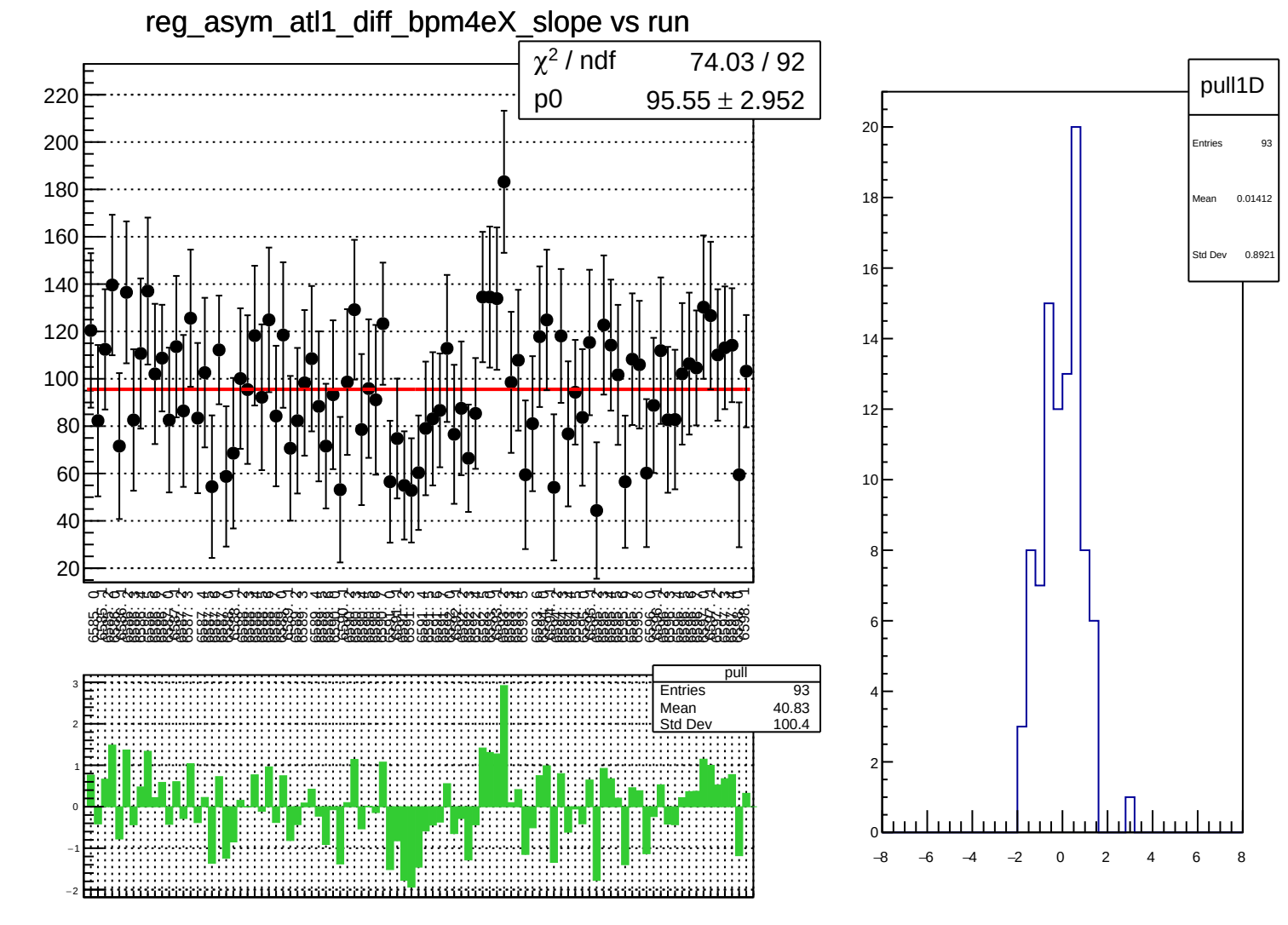

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 5.06 / 92
p0 0.2562 ± 0.02318
pull
Entries 93
Mean −553.3
Std Dev 0

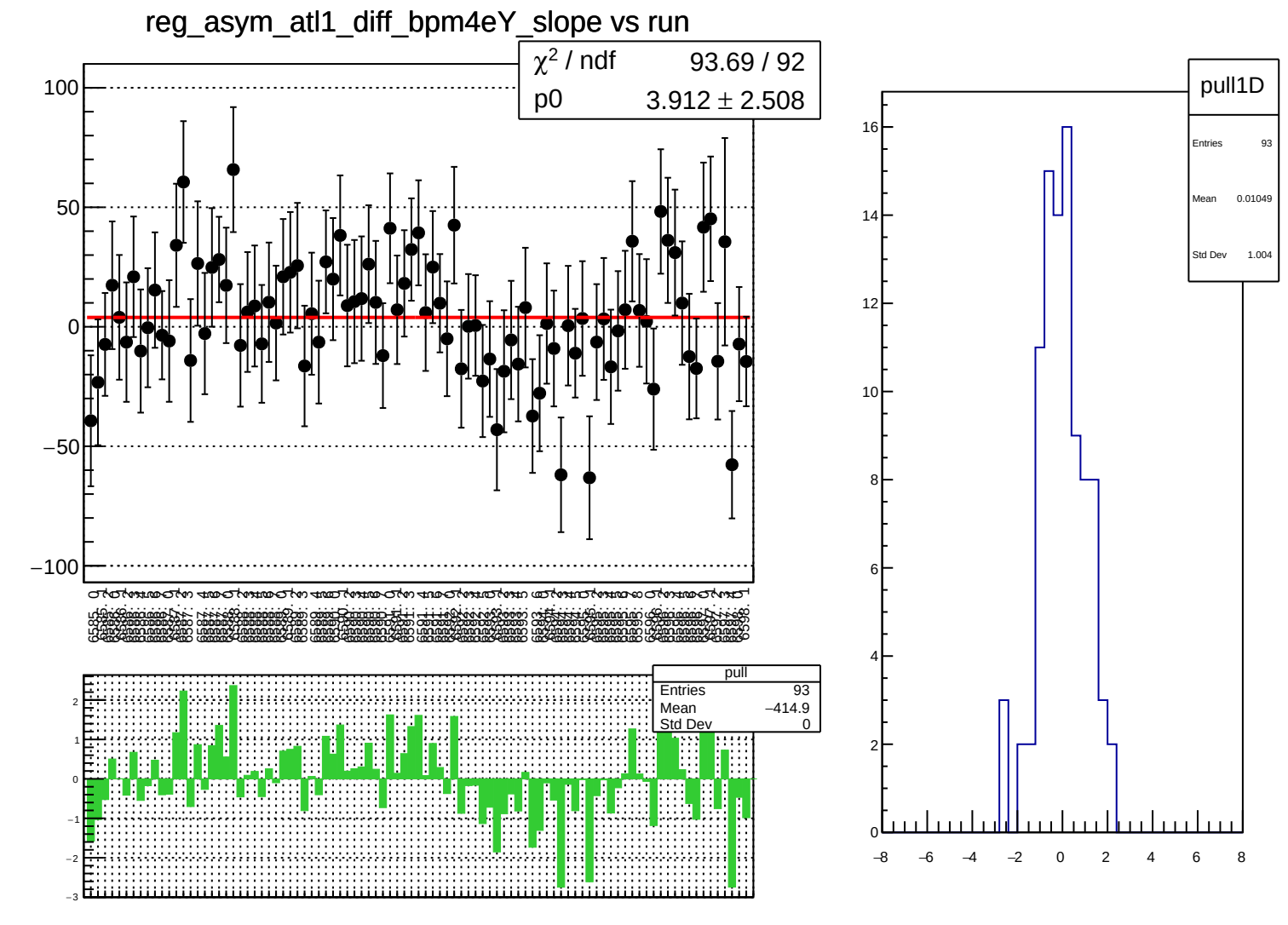

pull1D
Entries 93
Mean −0.001736
Std Dev 0.2333

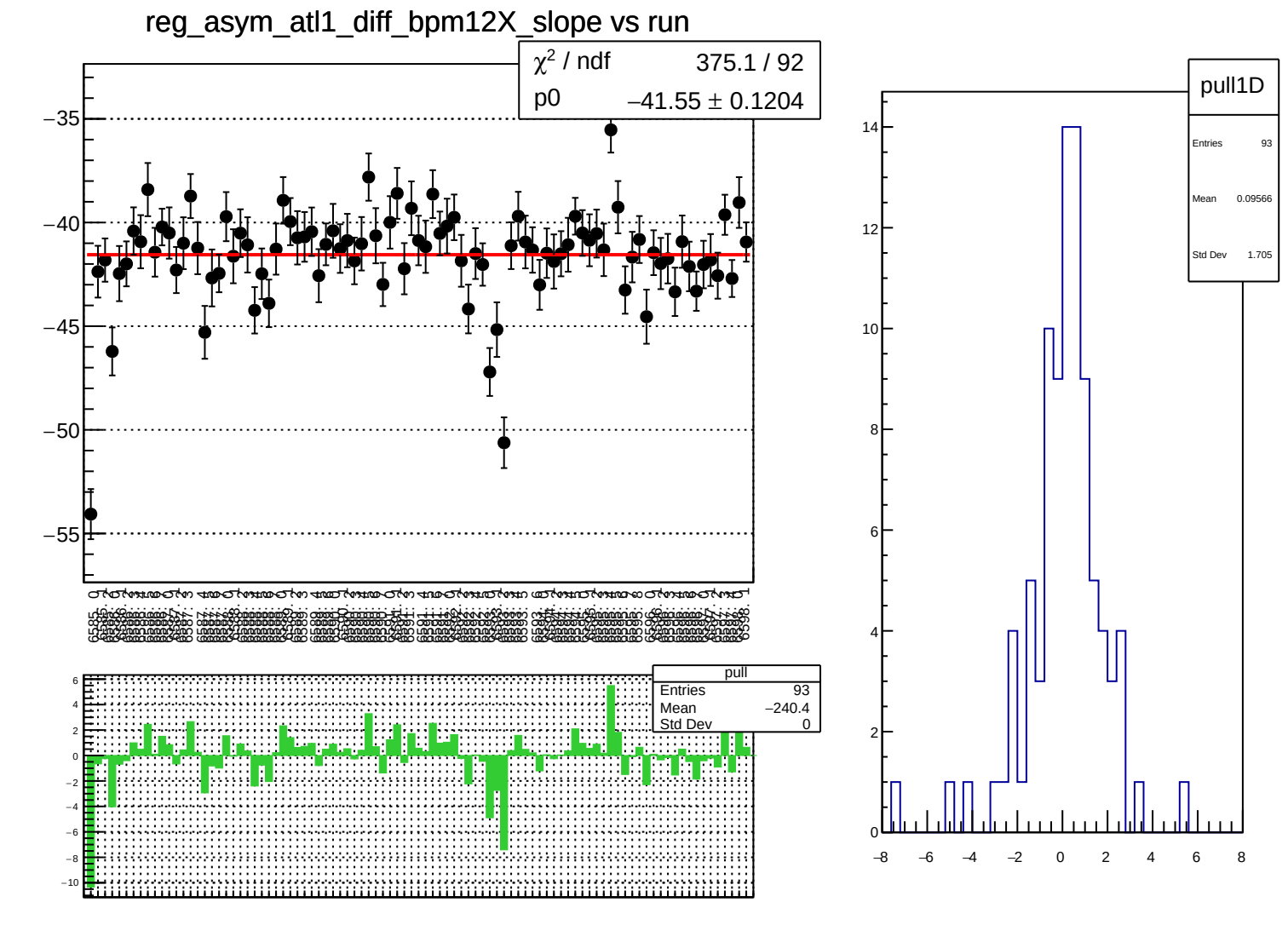

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 74.29 / 92
p0 −45.48 ± 2.877
pull
Entries 93
Mean 44.31
Std Dev 102.5
pull1D
Entries 93
Mean −0.01258
Std Dev 0.8937

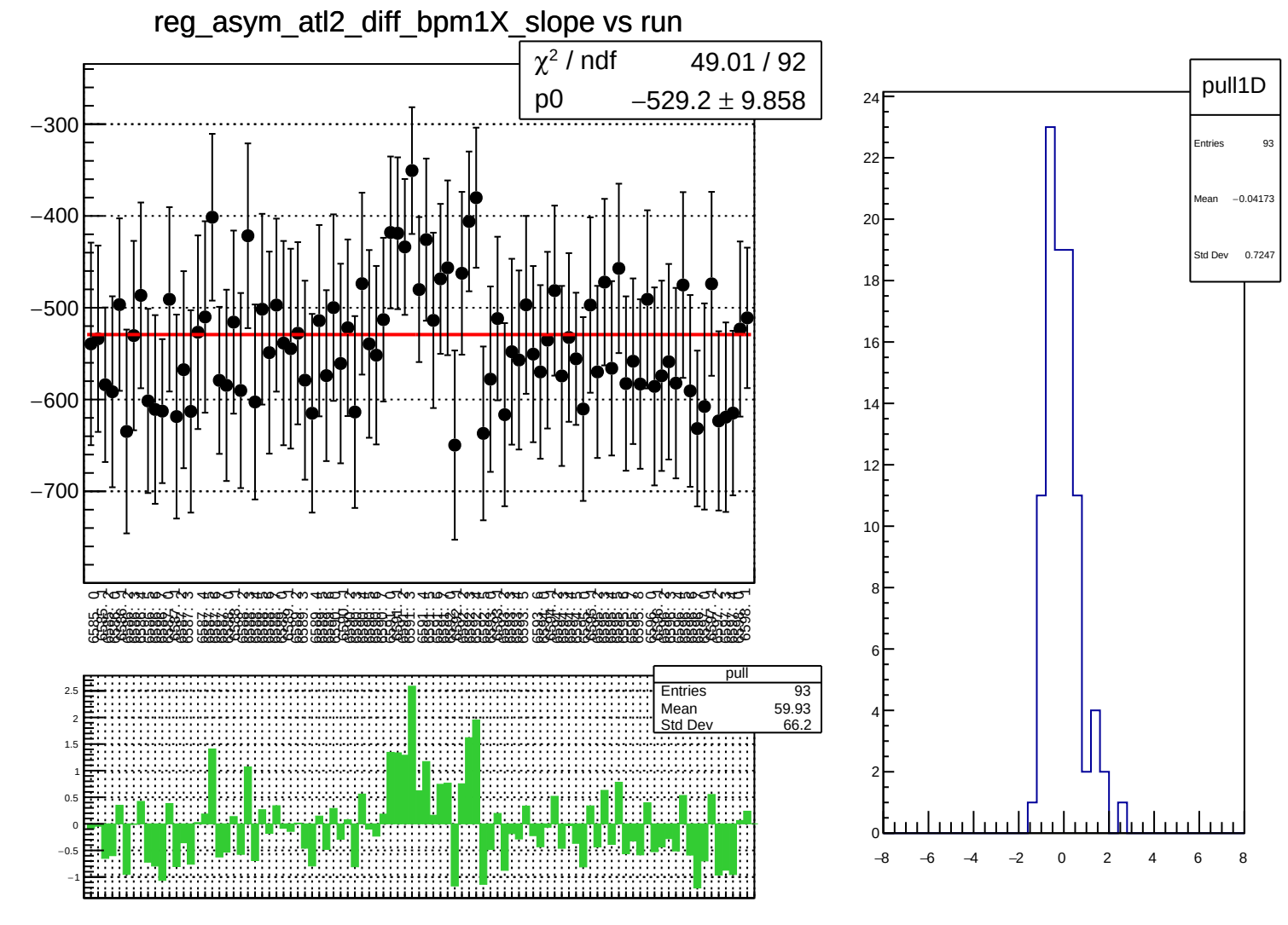

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 78.92 / 92
p0 4.612 ± 2.114
pull
Entries 93
Mean −743.4
Std Dev 0

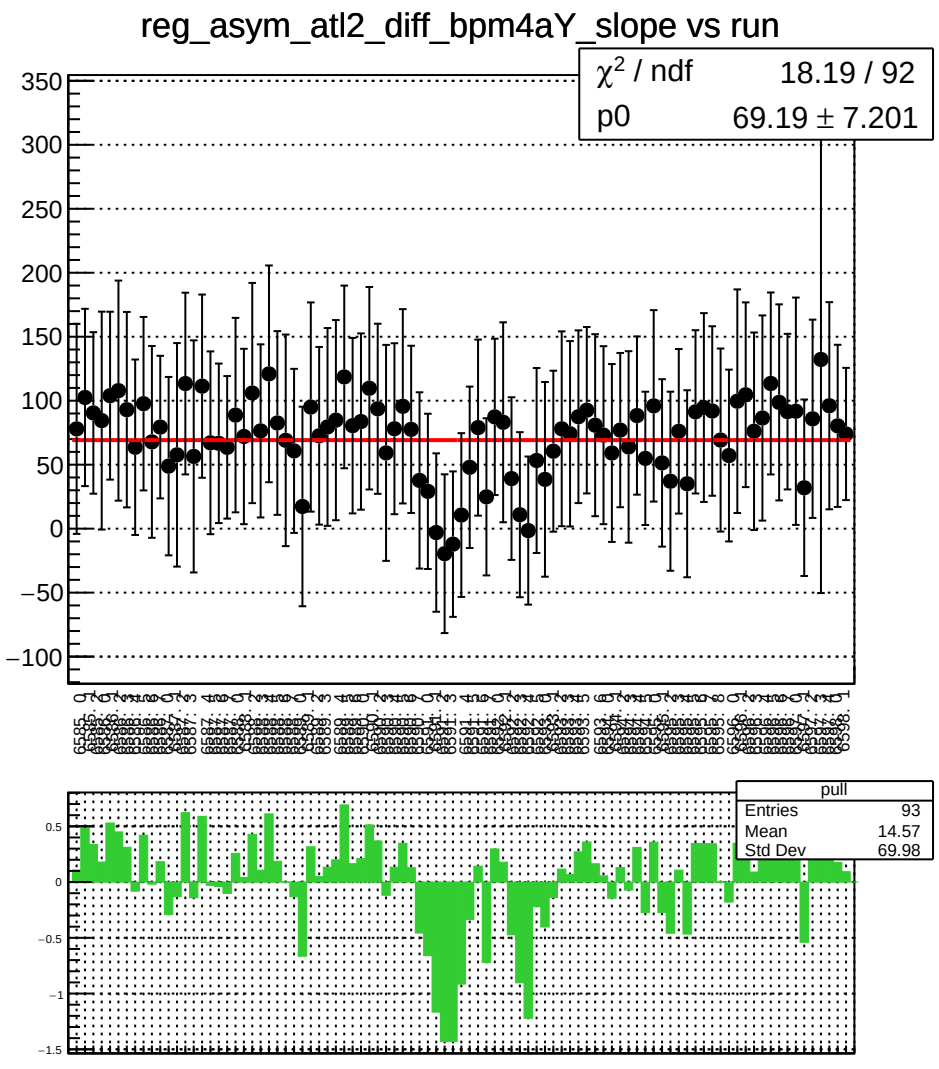

pull1D
Entries 93
Mean −0.004572
Std Dev 0.9212

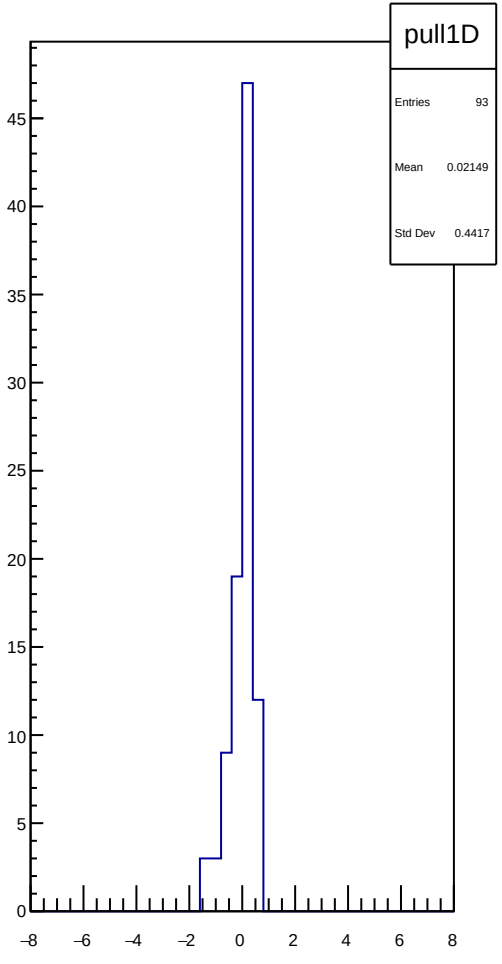

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 74.03 / 92
p0 95.55 ± 2.952
pull
Entries 93
Mean 40.83
Std Dev 100.4
pull1D
Entries 93
Mean 0.01412
Std Dev 0.8921

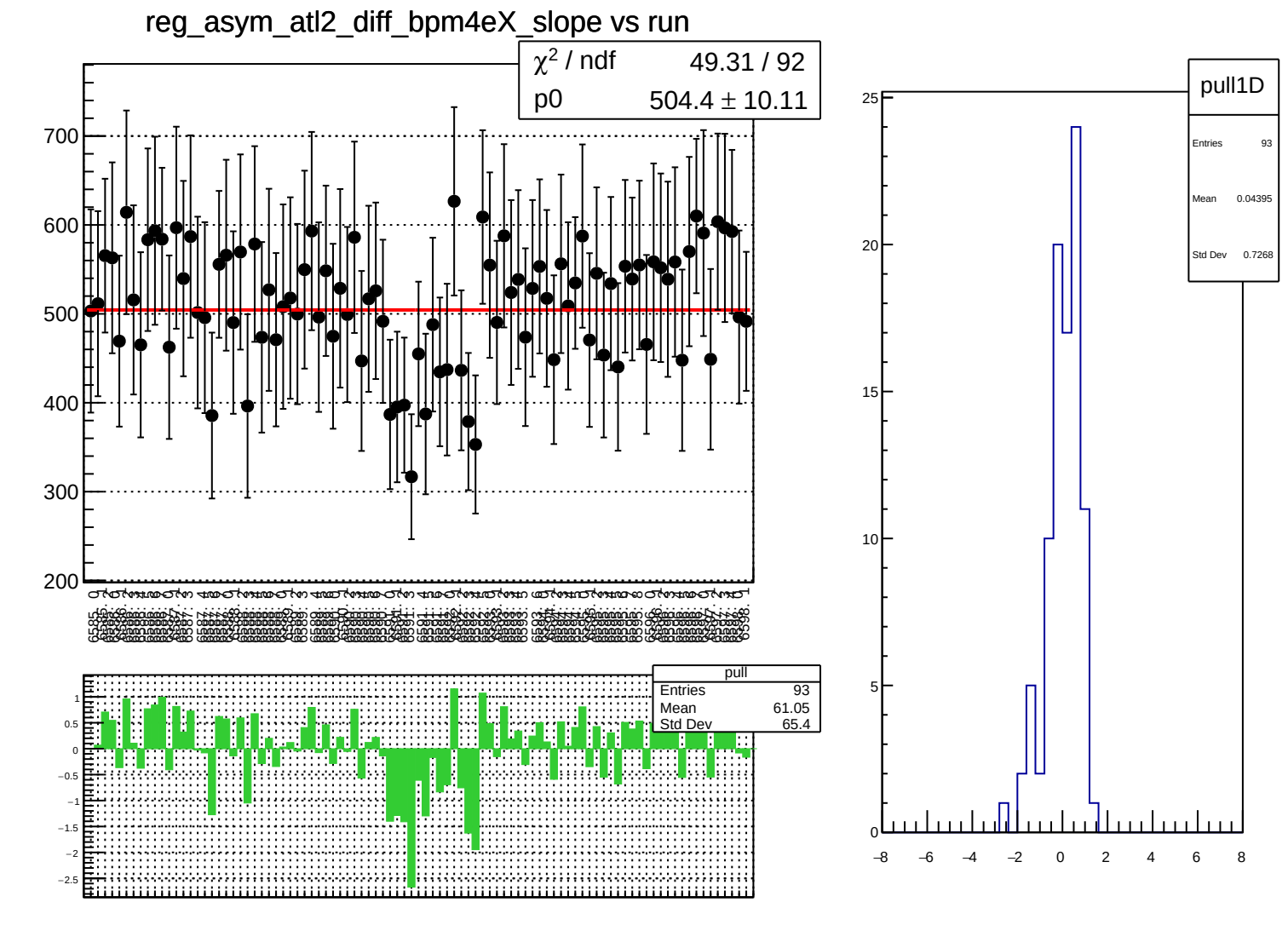

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 93.69 / 92
p0 3.912 ± 2.508
pull
Entries 93
Mean −414.9
Std Dev 0
pull1D
Entries 93
Mean 0.01049
Std Dev 1.004

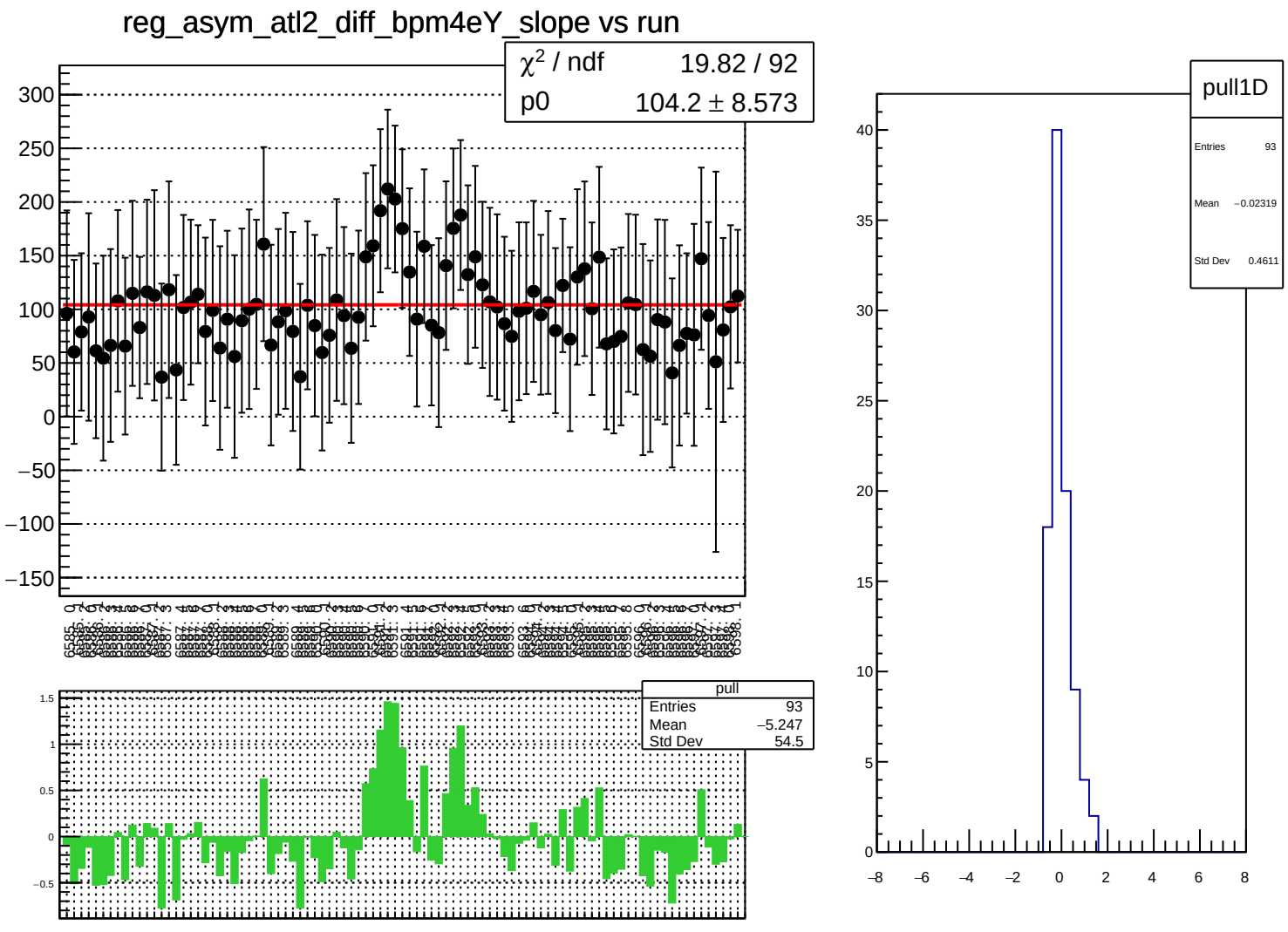

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 375.1 / 92
p0 −41.55 ± 0.1204
pull
Entries 93
Mean −240.4
Std Dev 0
pull1D
Entries 93
Mean 0.09566
Std Dev 1.705

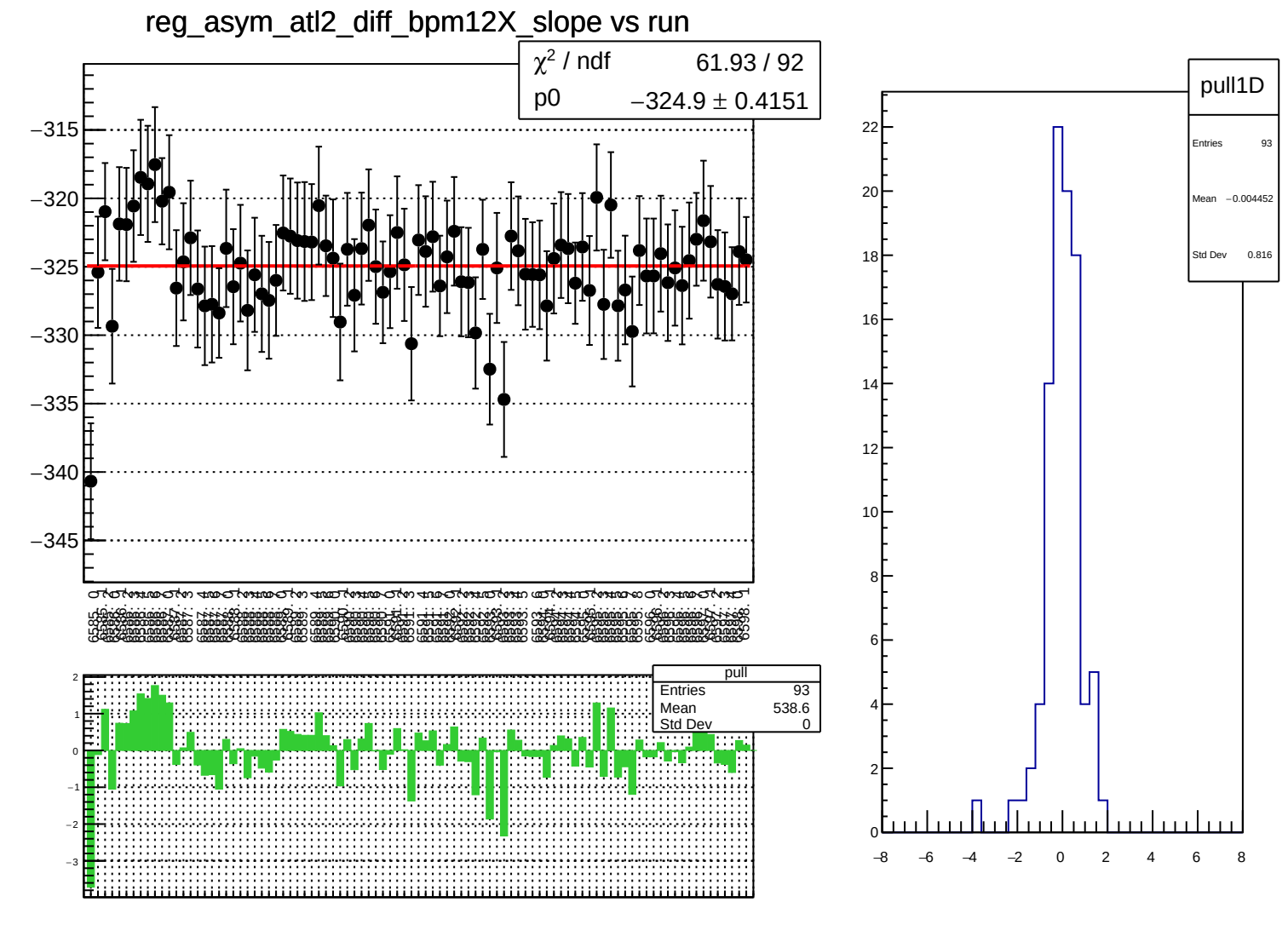

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 49.01 / 92
p0 −529.2 ± 9.858
−300
−400
−500
−600
−700
pull
Entries 93
Mean 59.93
Std Dev 66.2
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.04173
Std Dev 0.7247
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

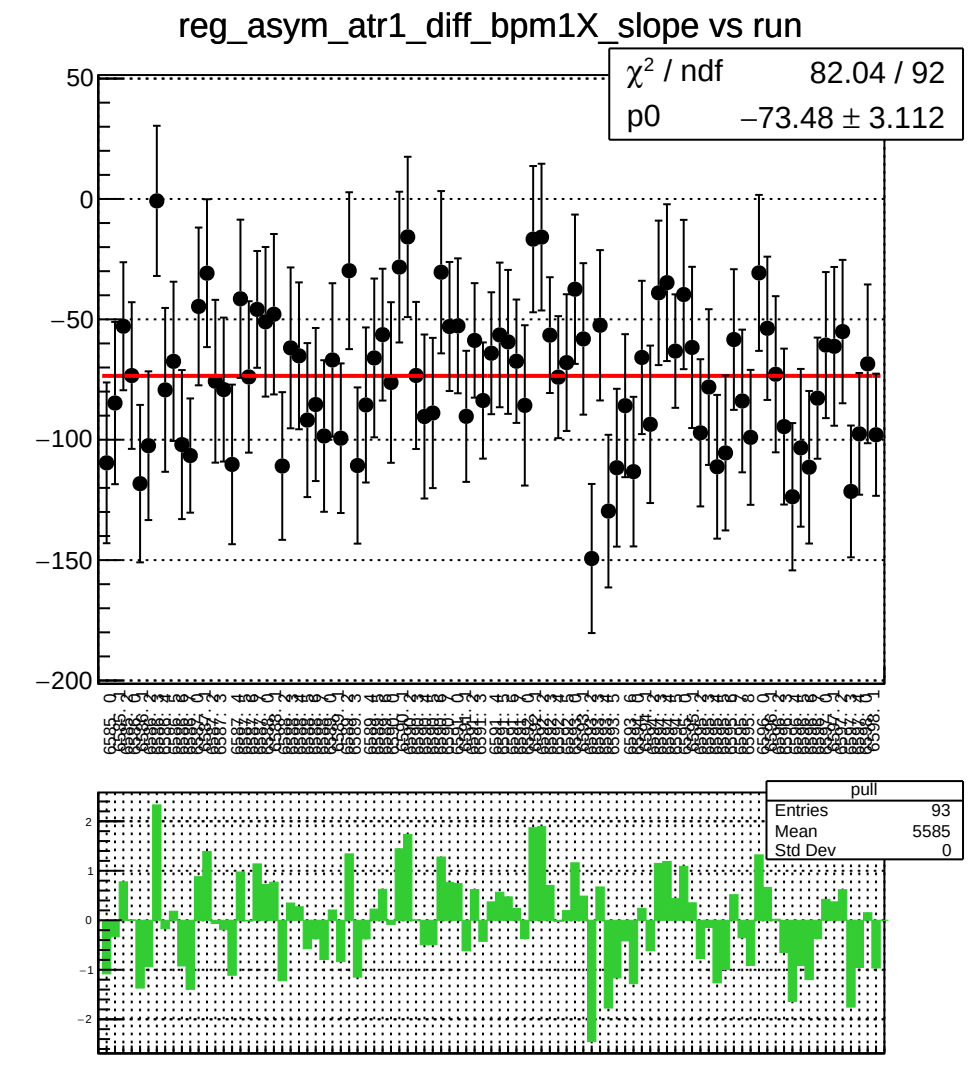

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 18.19 / 92
p0 69.19 ± 7.201
pull
Entries 93
Mean 14.57
Std Dev 69.98

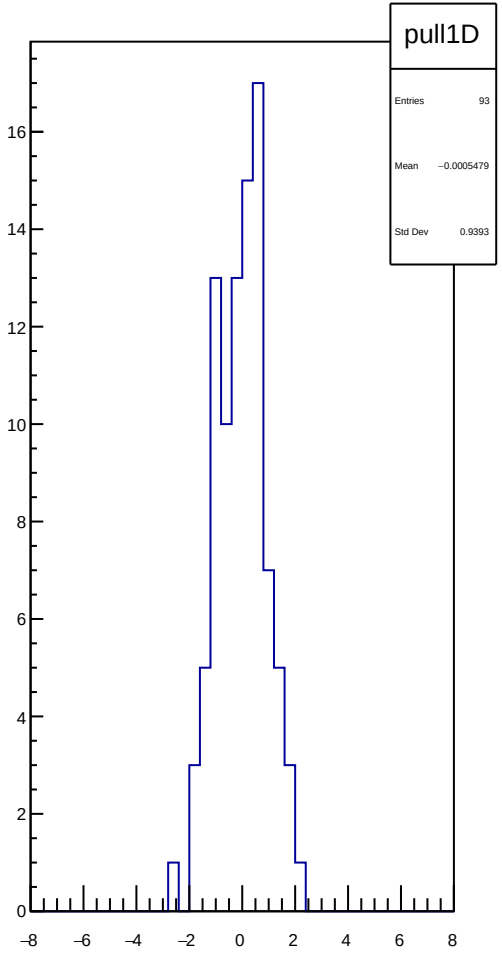

pull1D
Entries 93
Mean 0.02149
Std Dev 0.4417

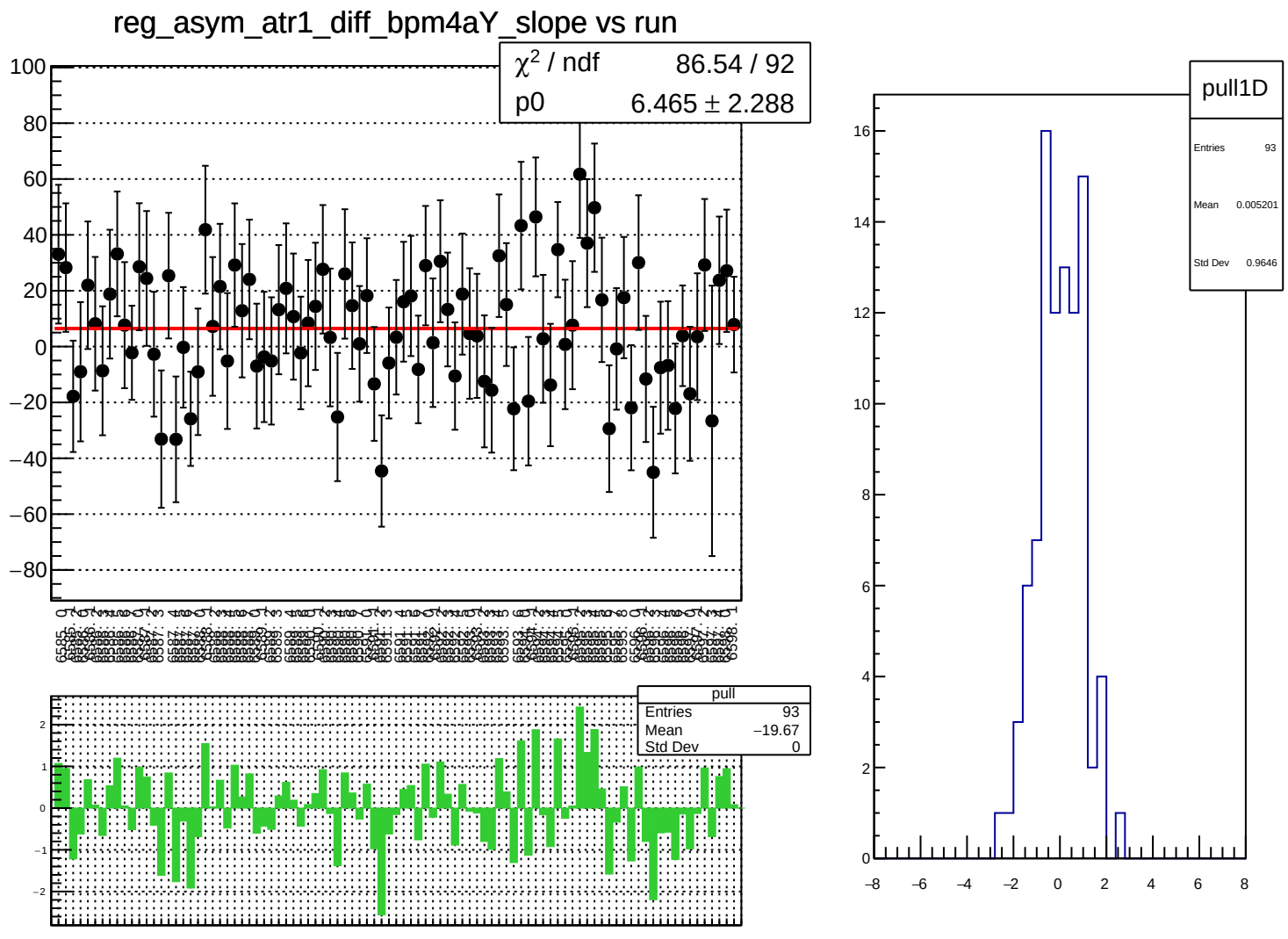

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 49.31 / 92
p0 504.4 ± 10.11
700
600
500
400
300
200
pull
Entries 93
Mean 61.05
Std Dev 65.4
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.04395
Std Dev 0.7268
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

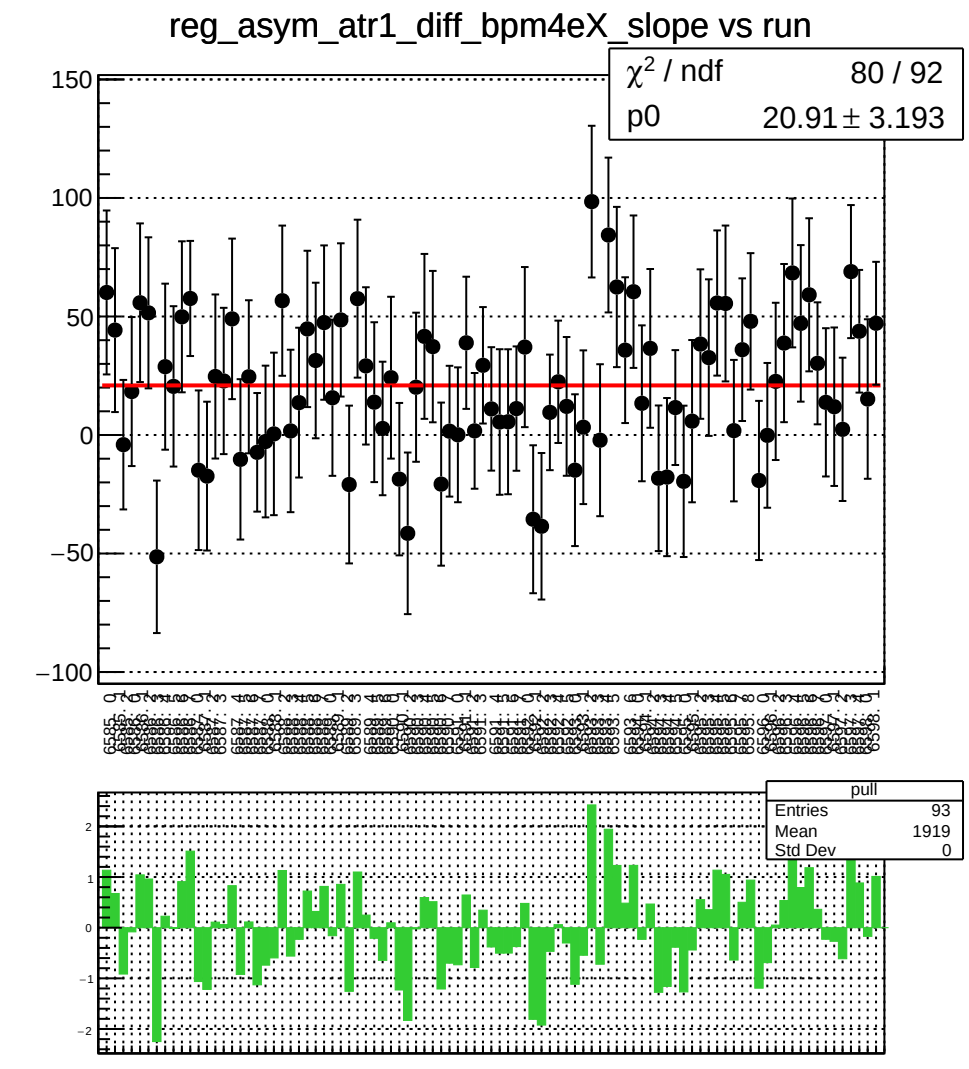

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 19.82 / 92
p0 104.2 ± 8.573
300
250
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −5.247
Std Dev 54.5
1.5
1
0.5
0
−0.5
pull1D
Entries 93
Mean −0.02319
Std Dev 0.4611
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

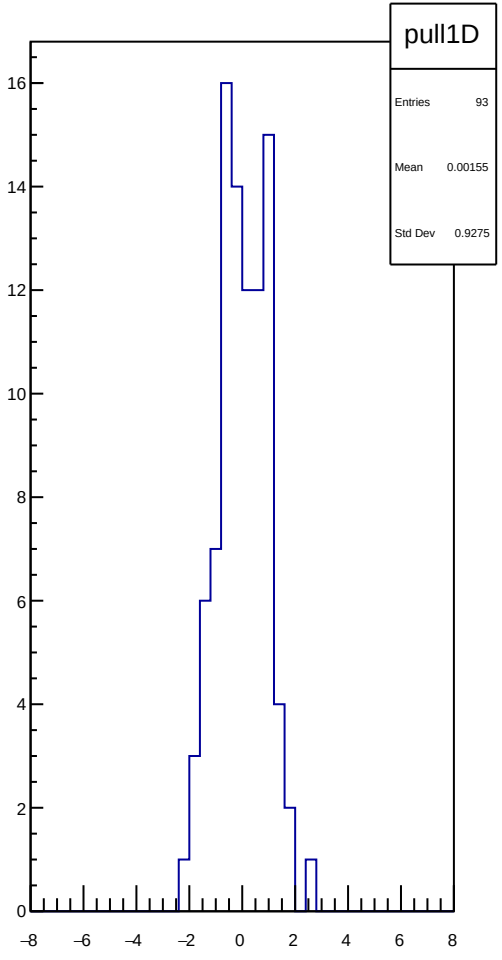

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 61.93 / 92
p0 −324.9 ± 0.4151
pull
Entries 93
Mean 538.6
Std Dev 0
pull1D
Entries 93
Mean −0.004452
Std Dev 0.816

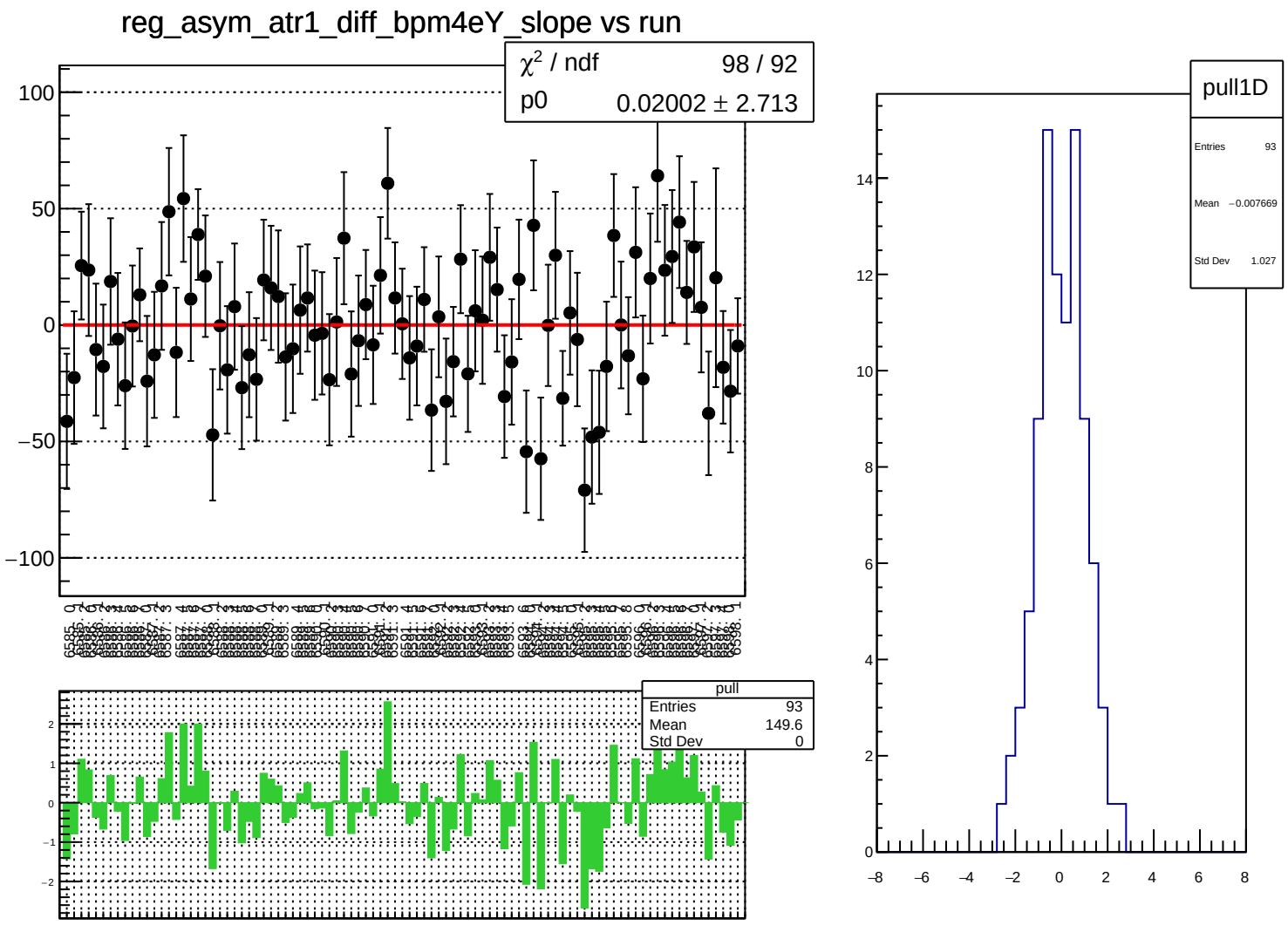

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 82.04 / 92
p0 −73.48 ± 3.112
pull
Entries 93
Mean 5585
Std Dev 0

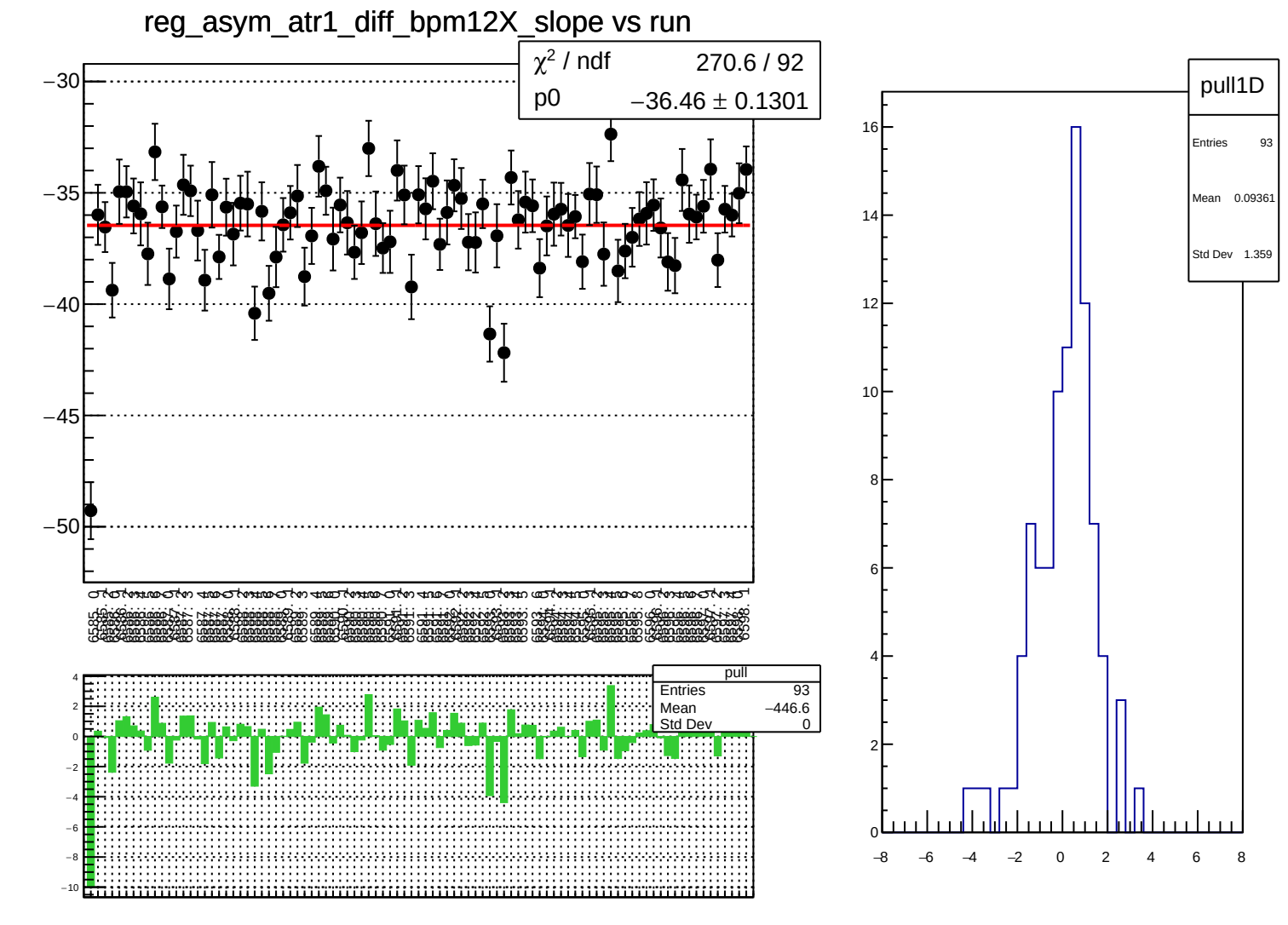

pull1D
Entries 93
Mean −0.0005479
Std Dev 0.9393

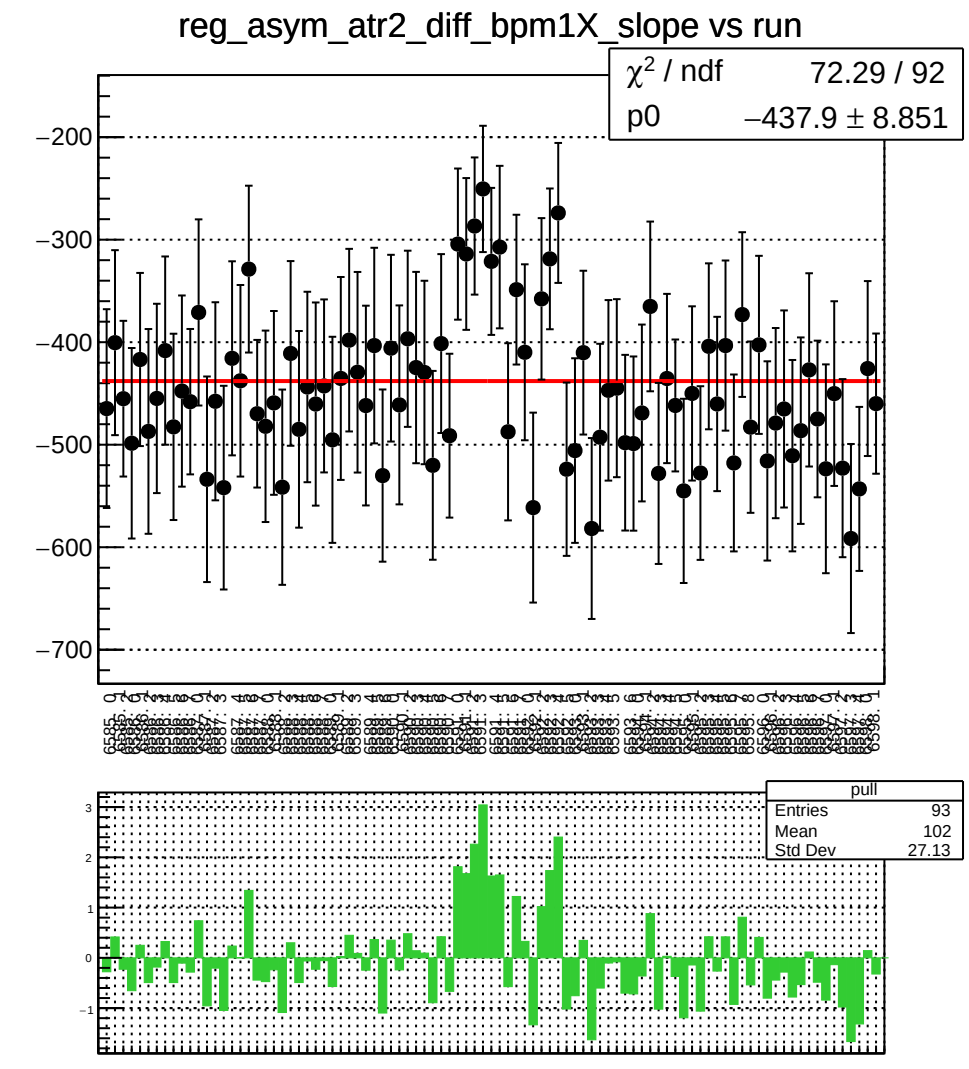

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 86.54 / 92
p0 6.465 ± 2.288
pull
Entries 93
Mean −19.67
Std Dev 0
pull1D
Entries 93
Mean 0.005201
Std Dev 0.9646

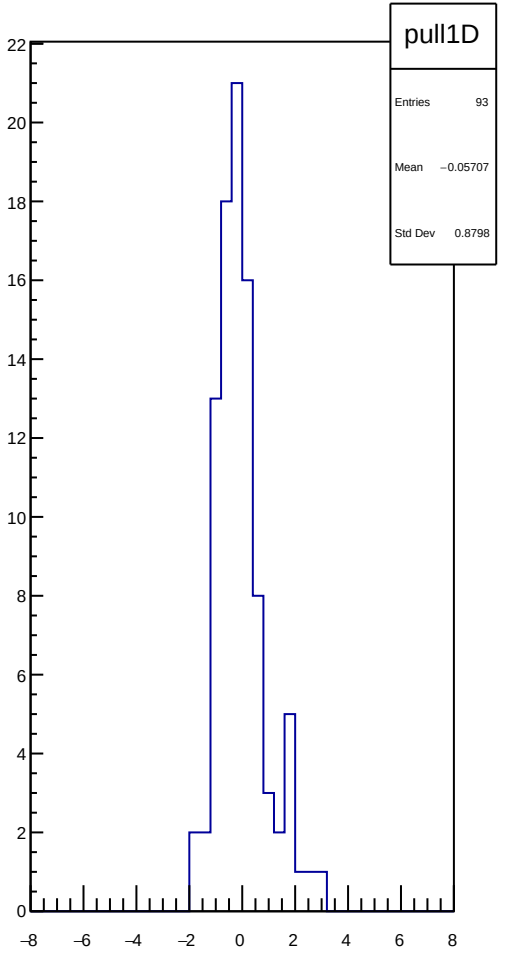

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 80 / 92
p0 20.91 ± 3.193
150
100
50
0
−50
−100
pull
Entries 93
Mean 1919
Std Dev 0
2
1
0
−1
−2

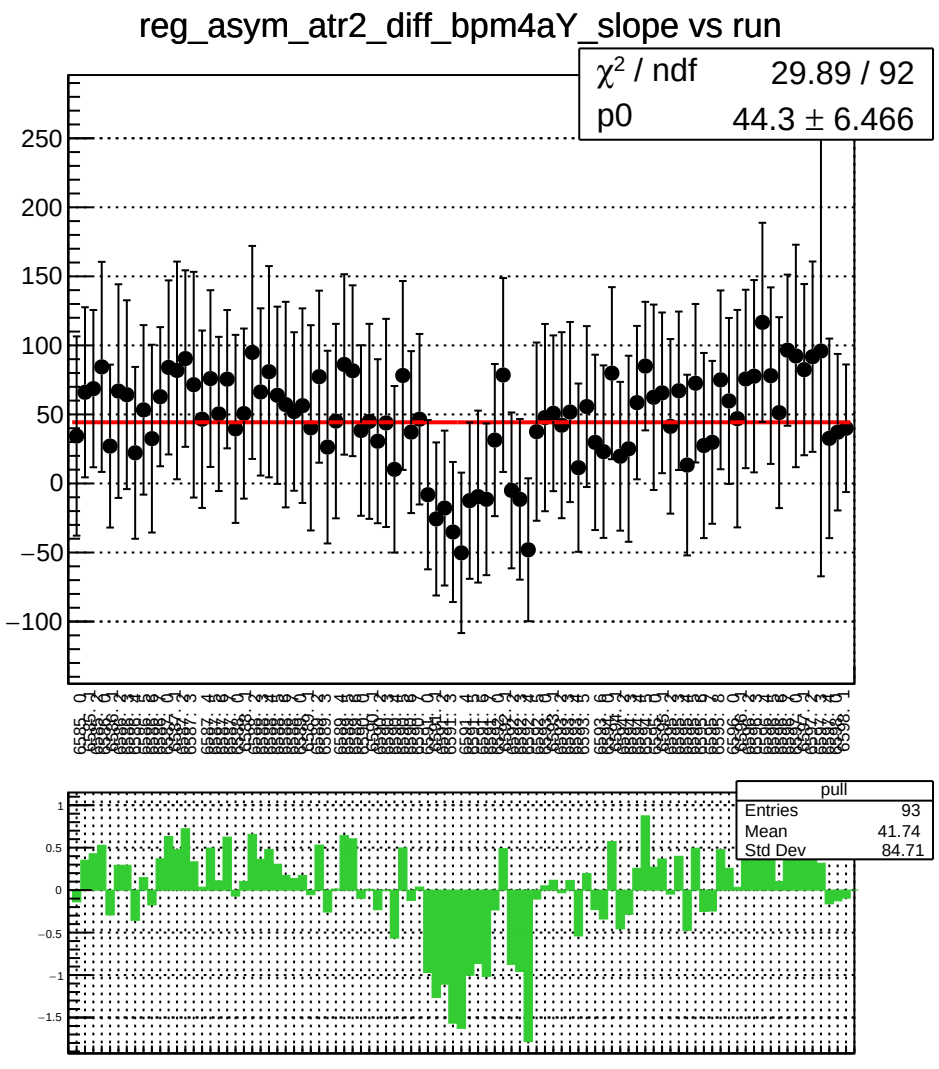

pull1D
Entries 93
Mean 0.00155
Std Dev 0.9275
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

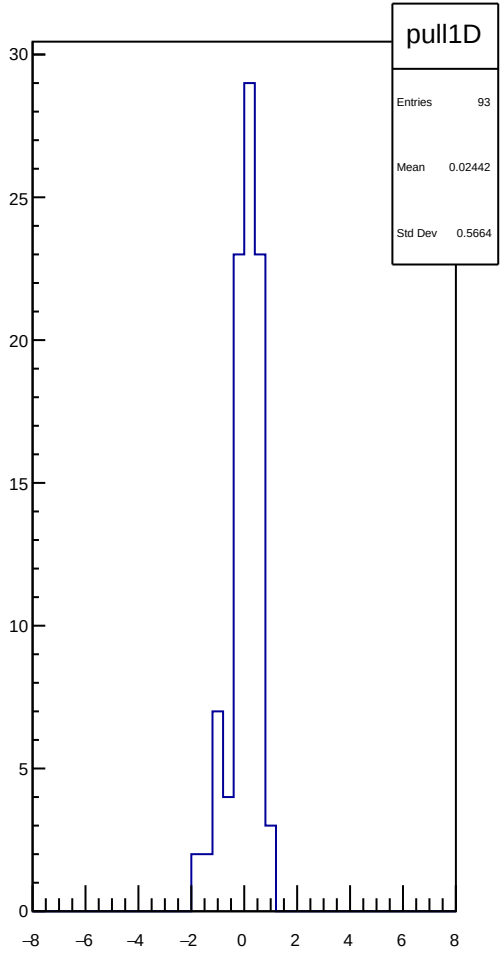

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 98 / 92
p0 0.02002 ± 2.713
pull
Entries 93
Mean 149.6
Std Dev 0
pull1D
Entries 93
Mean −0.007669
Std Dev 1.027

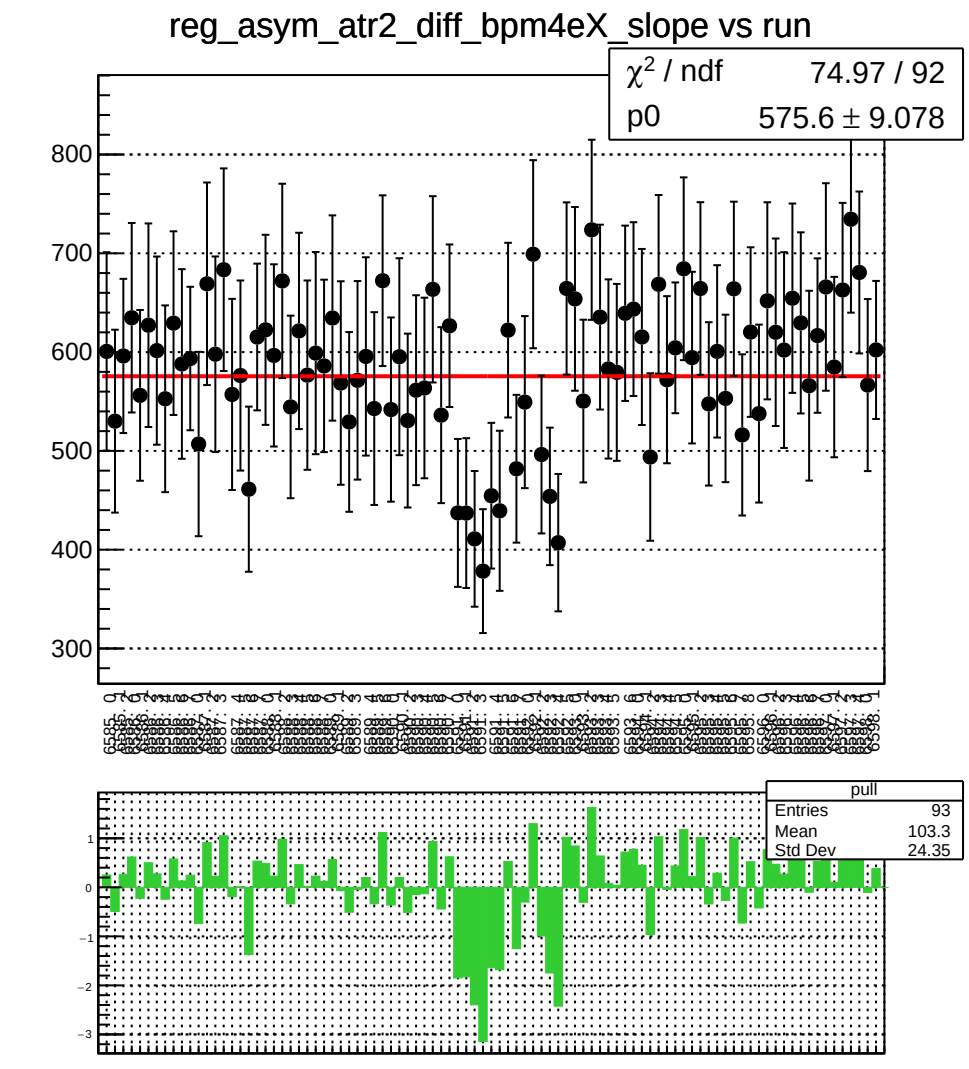

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 270.6 / 92
p0 −36.46 ± 0.1301
pull
Entries 93
Mean −446.6
Std Dev 0
pull1D
Entries 93
Mean 0.09361
Std Dev 1.359

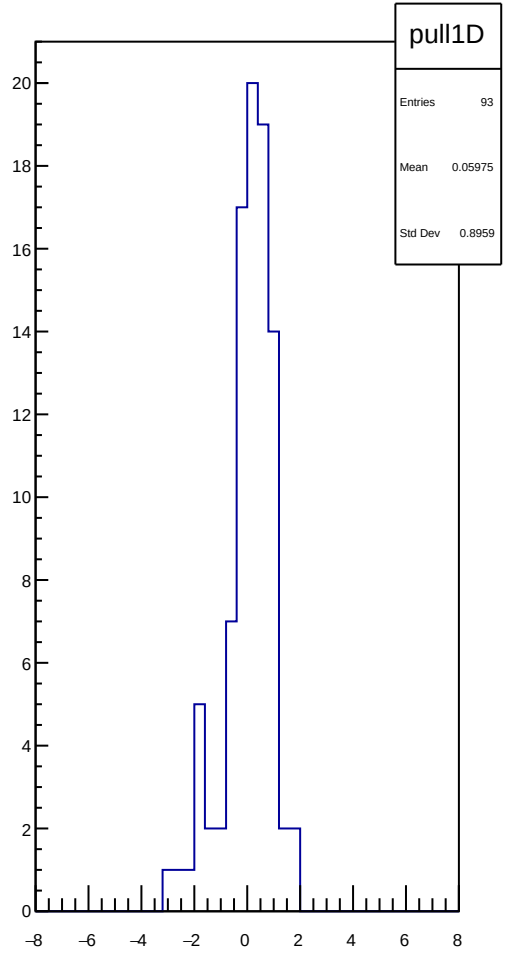

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 72.29 / 92
p0 −437.9 ± 8.851
−200
−300
−400
−500
−600
−700
pull
Entries 93
Mean 102
Std Dev 27.13
3
2
1
0
−1

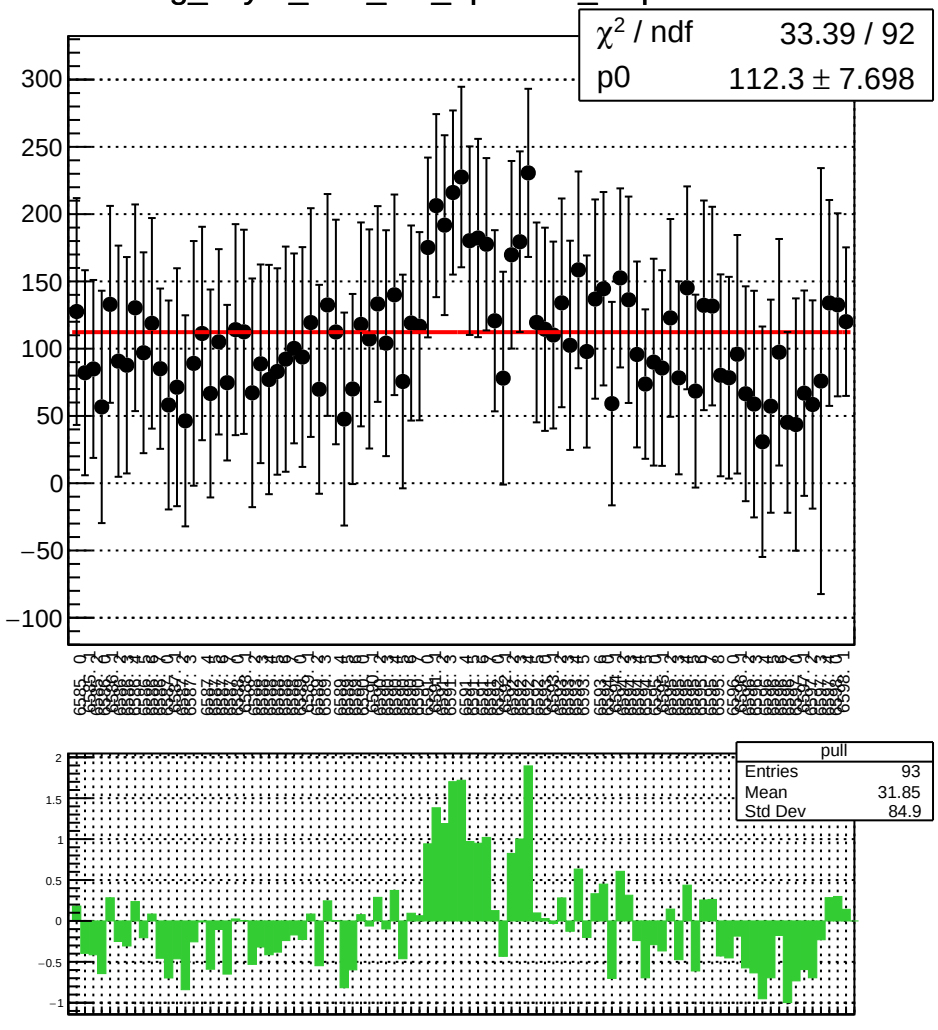

pull1D
Entries 93
Mean −0.05707
Std Dev 0.8798
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

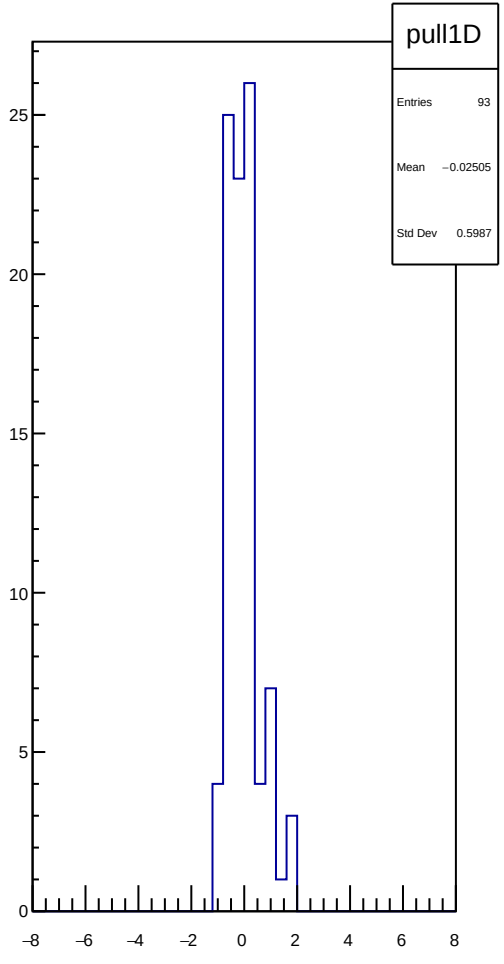

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 29.89 / 92
p0 44.3 ± 6.466
250
200
150
100
50
0
−50
−100
pull
Entries 93
Mean 41.74
Std Dev 84.71
1
0.5
0
−0.5
−1
−1.5

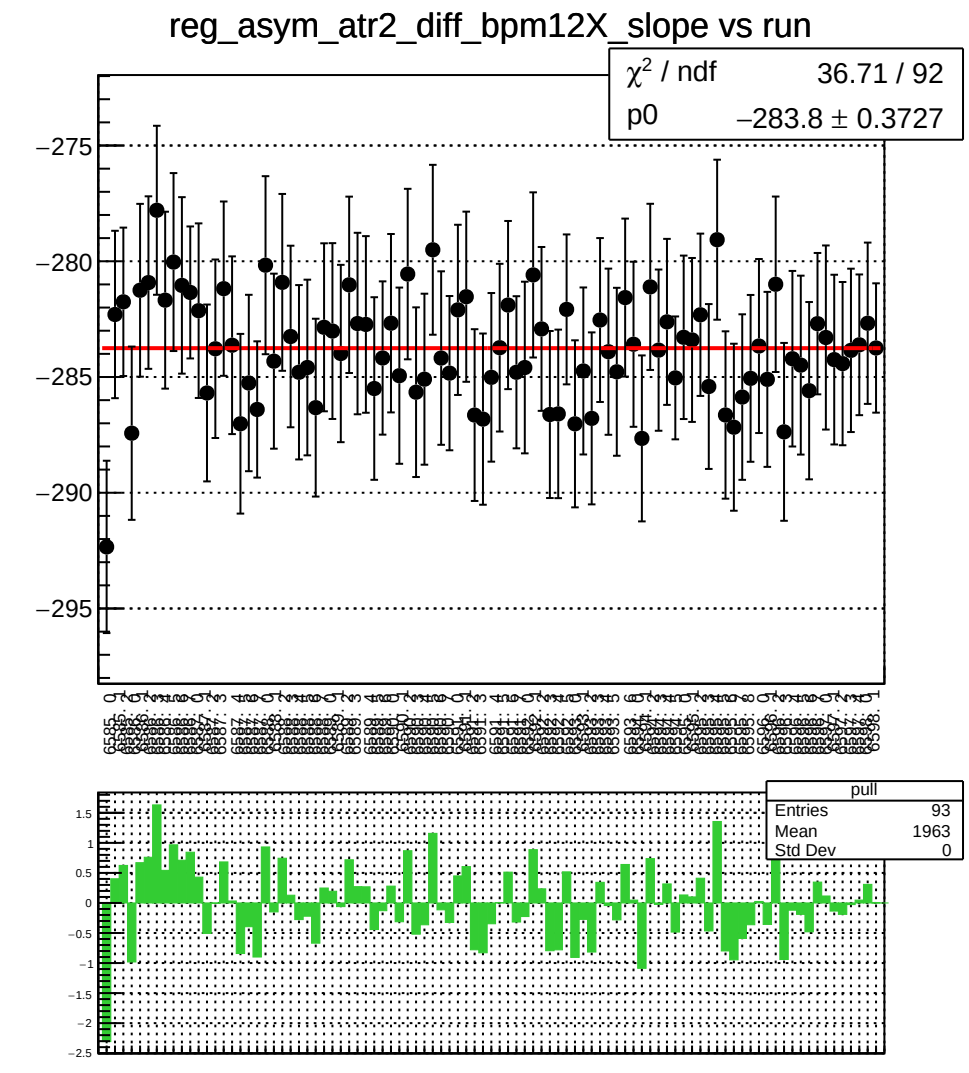

pull1D
Entries 93
Mean 0.02442
Std Dev 0.5664
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

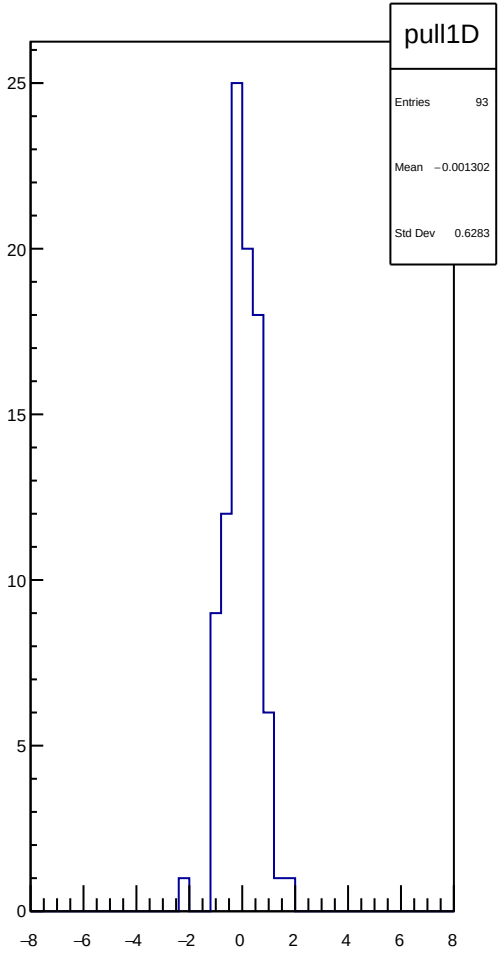

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 74.97 / 92
p0 575.6 ± 9.078
800
700
600
500
400
300
pull
Entries 93
Mean 103.3
Std Dev 24.35
1
0
−1
−2
−3

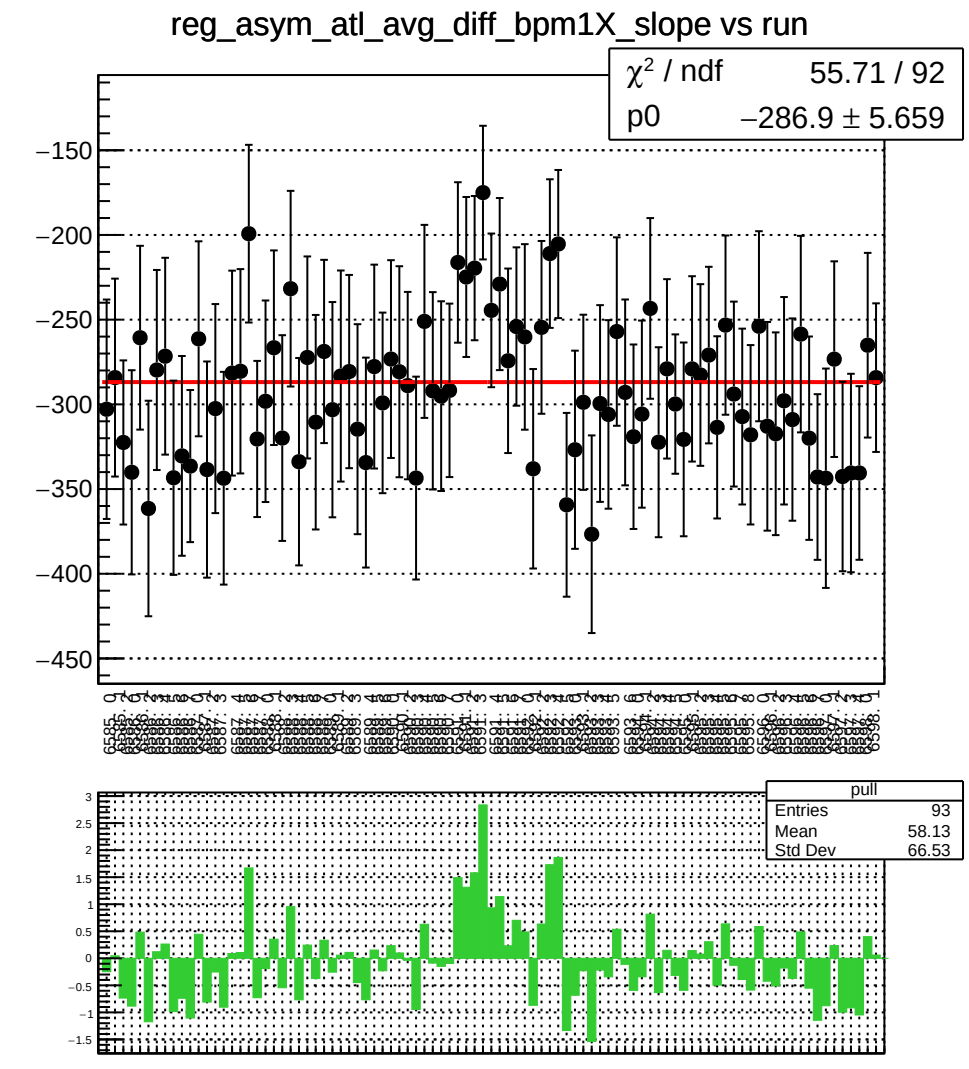

pull1D
Entries 93
Mean 0.05975
Std Dev 0.8959
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

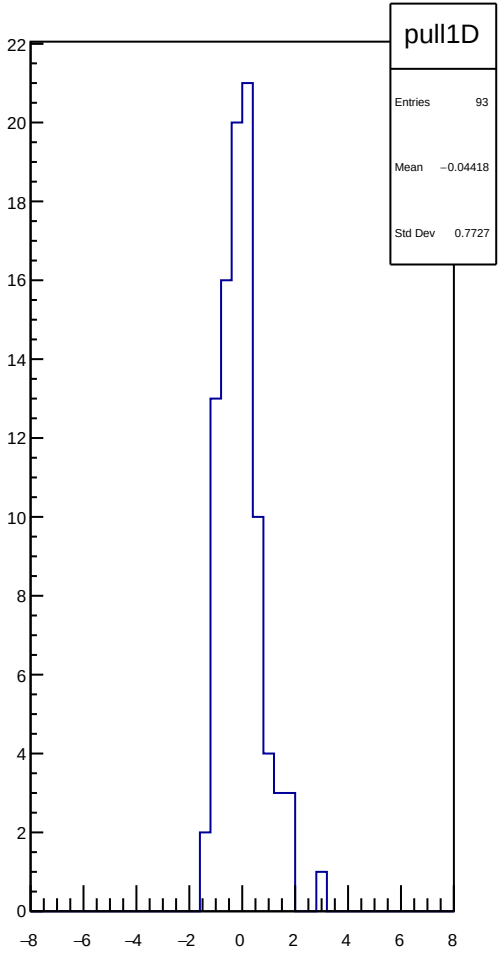

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 33.39 / 92
p0 112.3 ± 7.698
pull
Entries 93
Mean 31.85
Std Dev 84.9

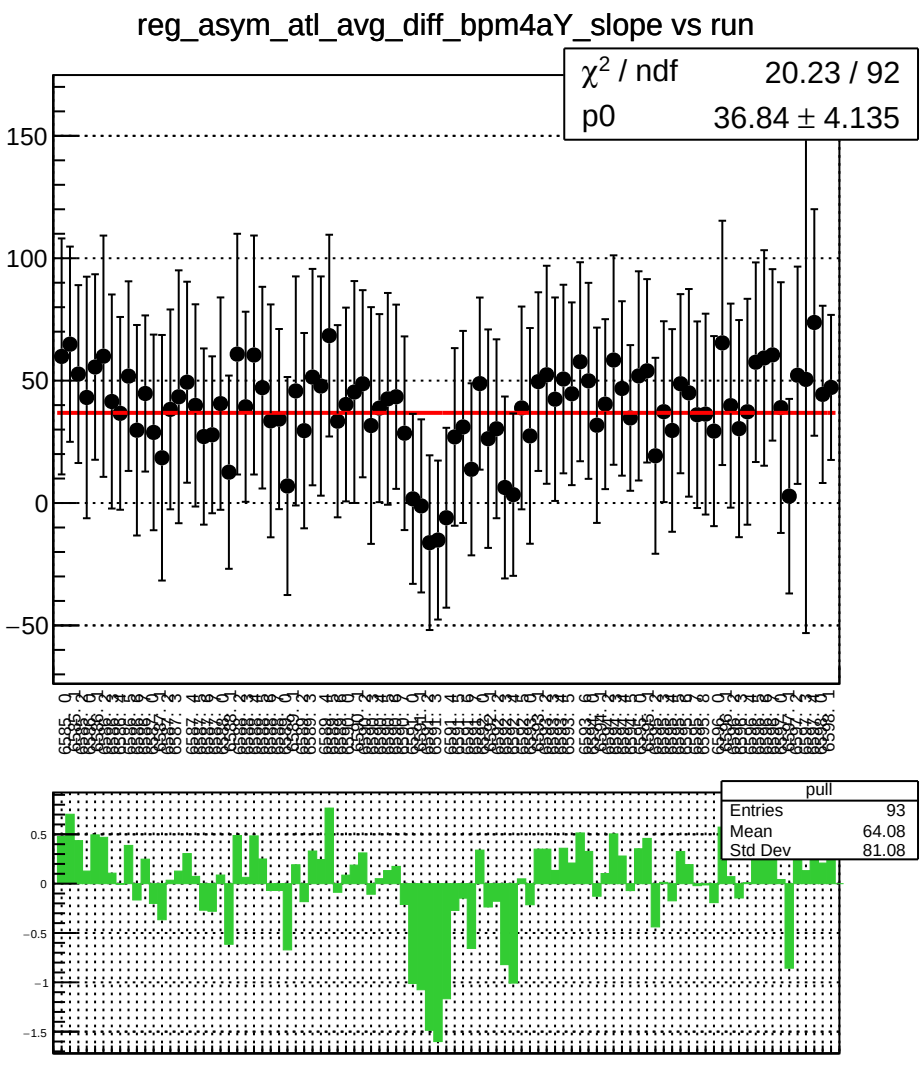

pull1D
Entries 93
Mean −0.02505
Std Dev 0.5987

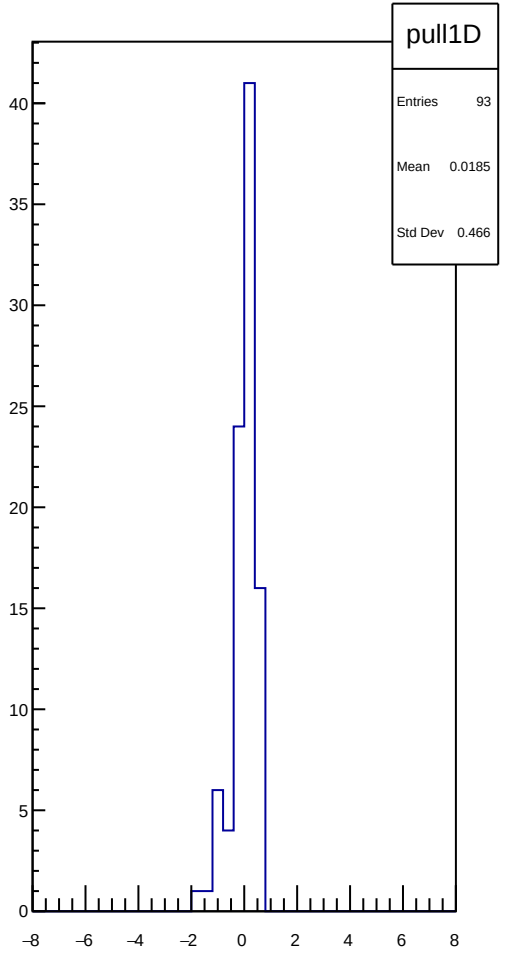

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 36.71 / 92
p0 −283.8 ± 0.3727
−275
−280
−285
−290
−295
pull
Entries 93
Mean 1963
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

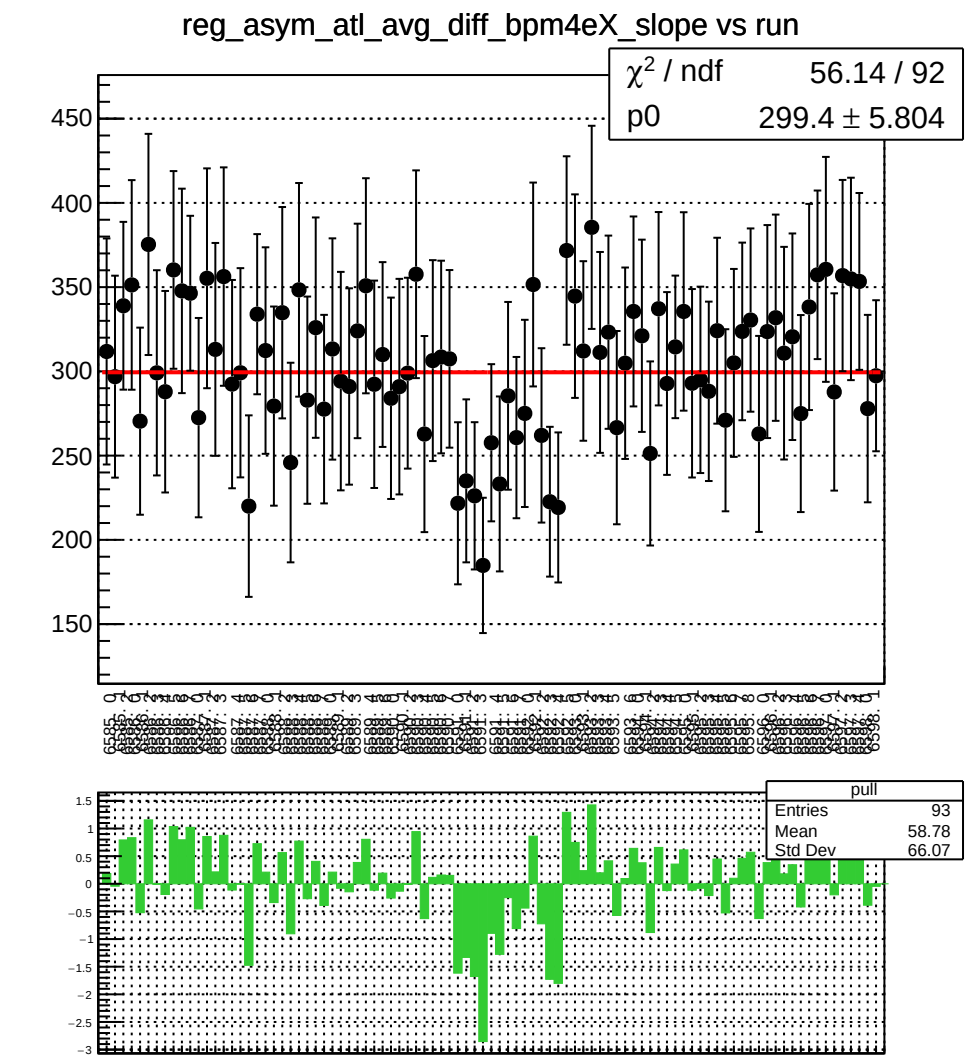

pull1D
Entries 93
Mean −0.001302
Std Dev 0.6283
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

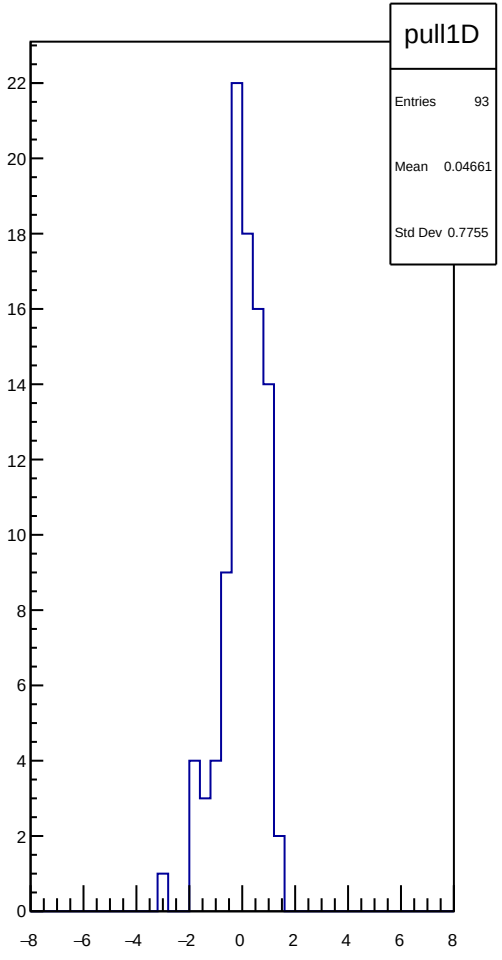

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 55.71 / 92
p0 −286.9 ± 5.659
pull
Entries 93
Mean 58.13
Std Dev 66.53

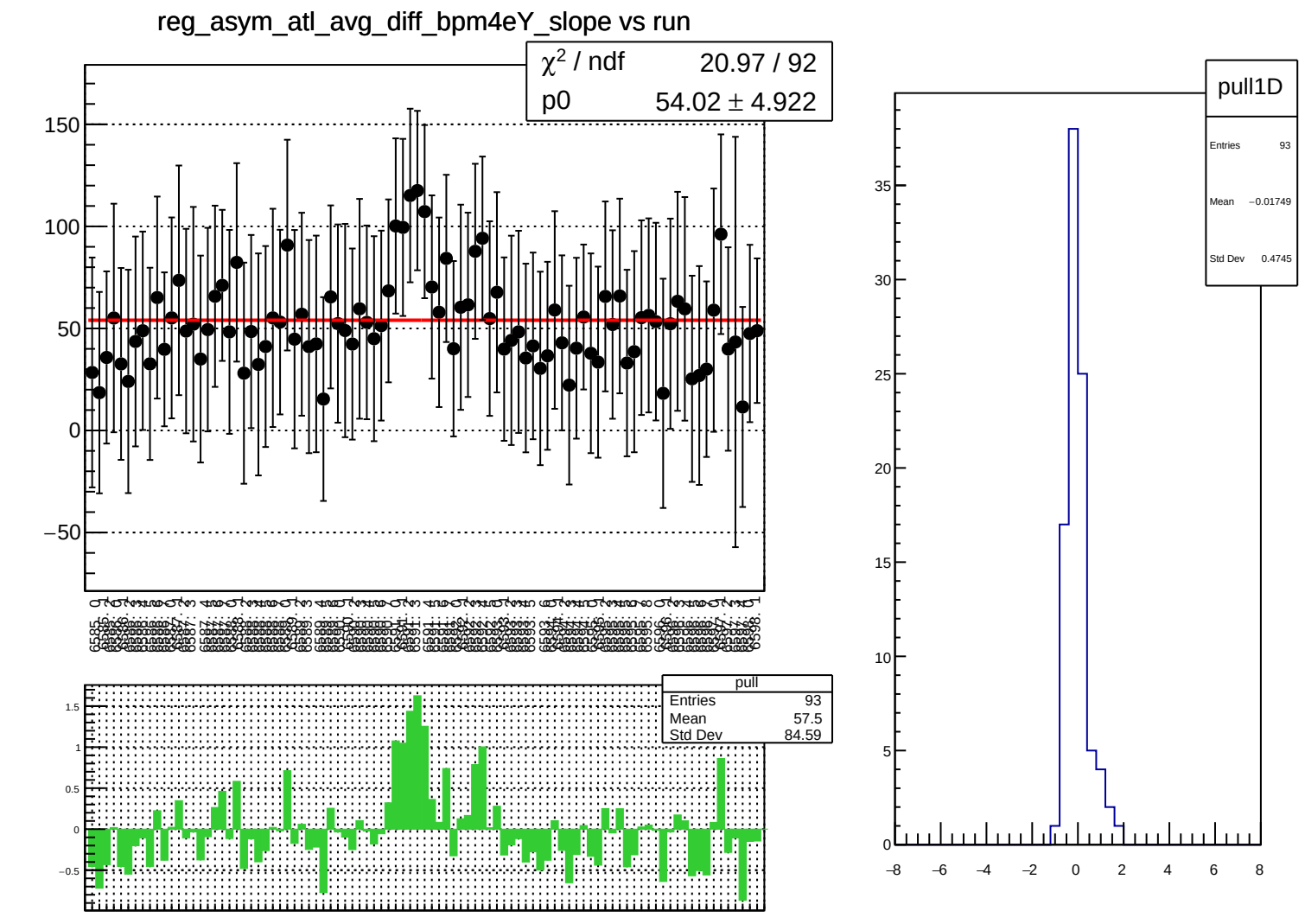

pull1D
Entries 93
Mean −0.04418
Std Dev 0.7727

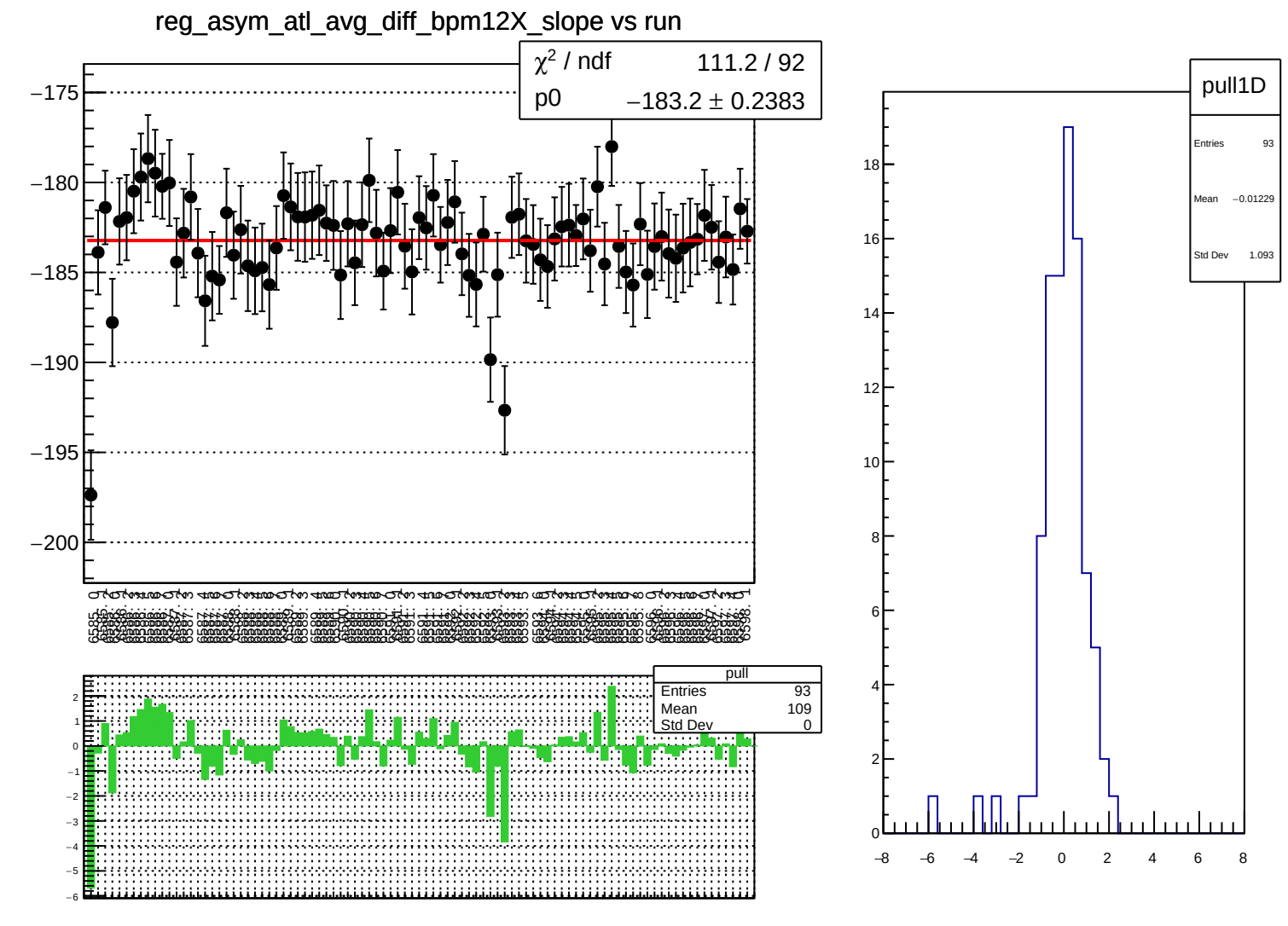

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.23 / 92
p0 36.84 ± 4.135
150
100
50
0
−50
pull
Entries 93
Mean 64.08
Std Dev 81.08
0.5
0
−0.5
−1
−1.5

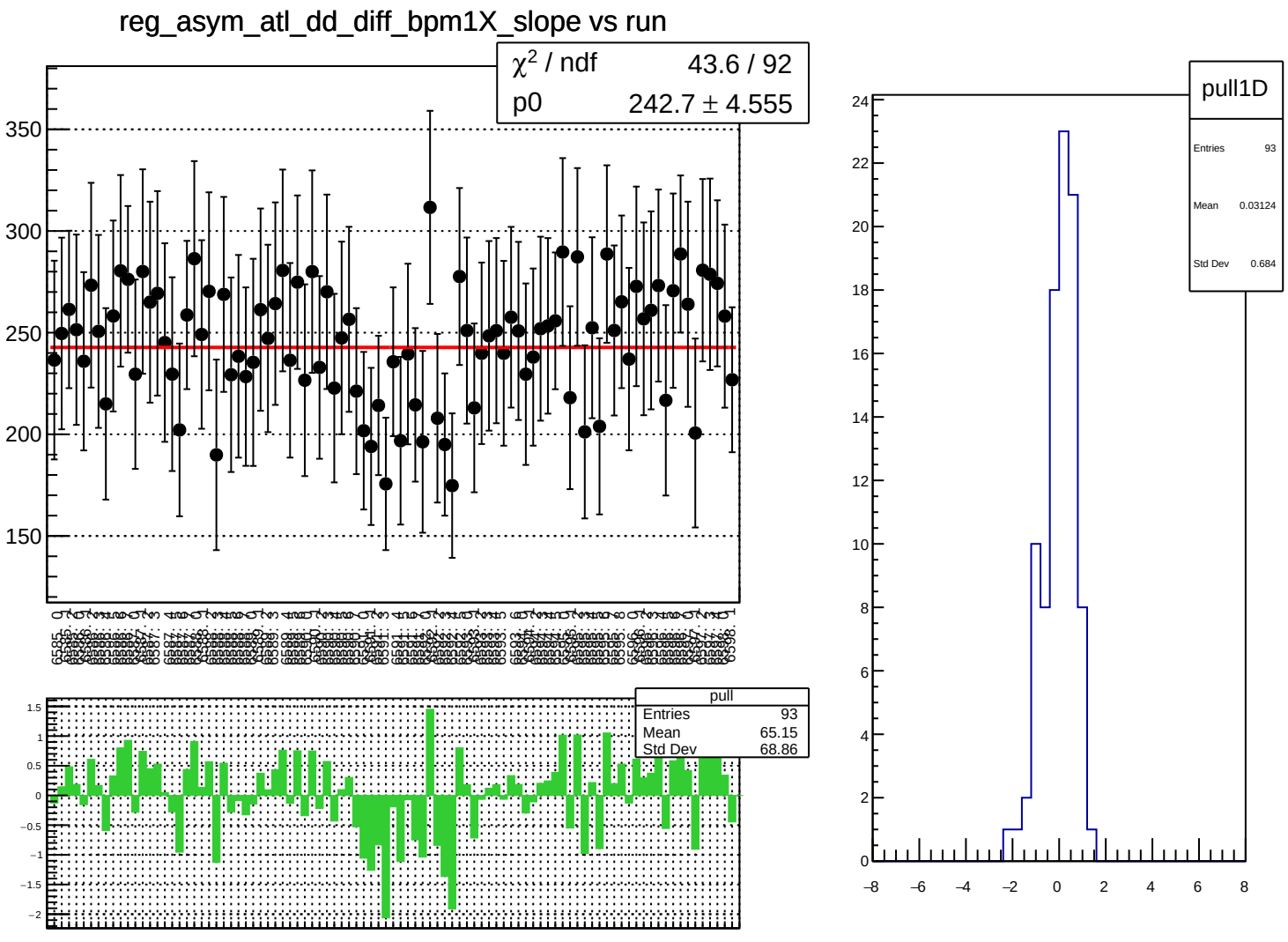

pull1D
Entries 93
Mean 0.0185
Std Dev 0.466
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

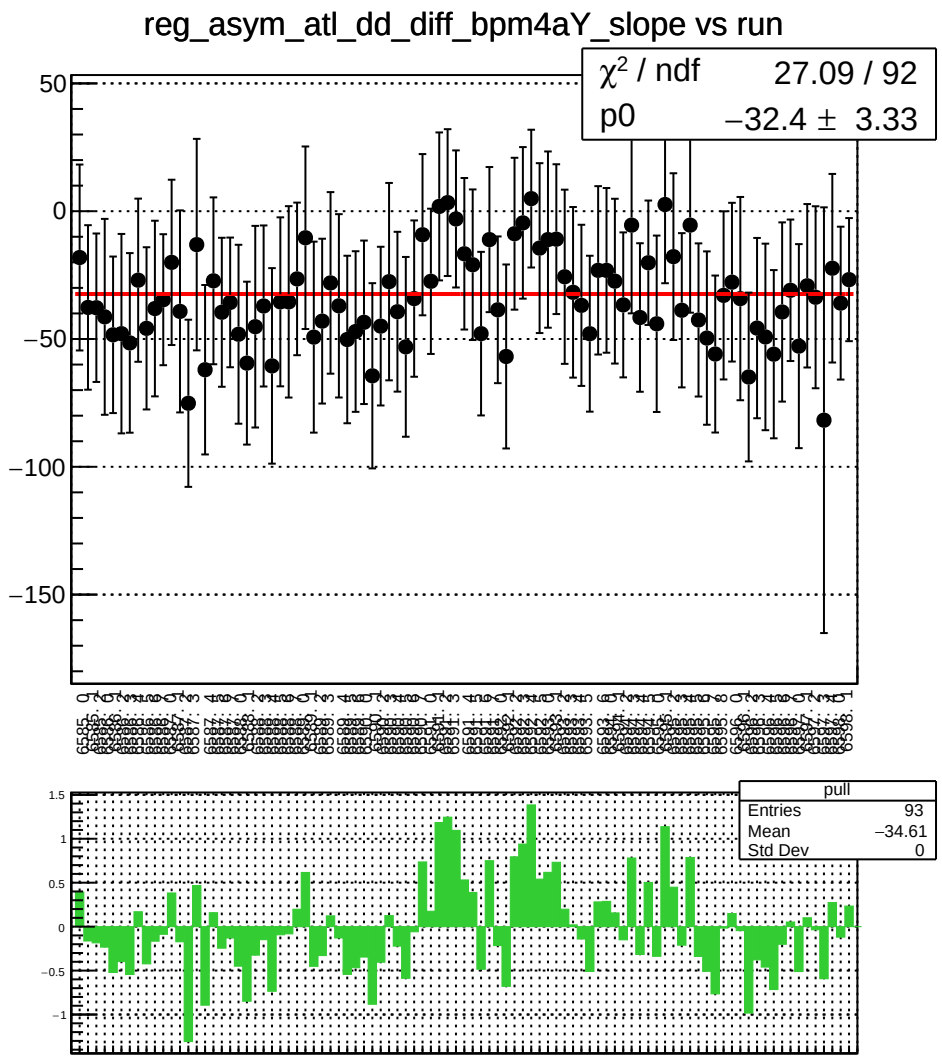

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.14 / 92
p0 299.4 ± 5.804
pull
Entries 93
Mean 58.78
Std Dev 66.07

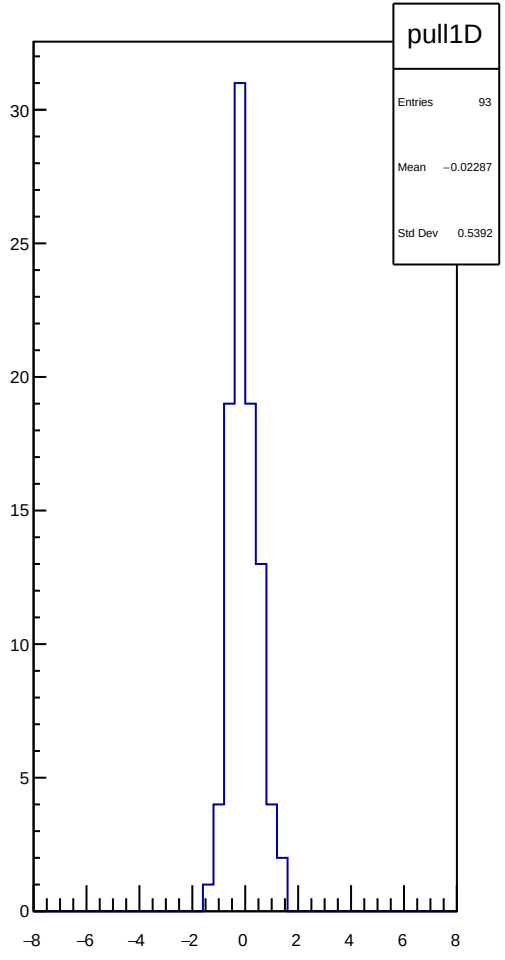

pull1D
Entries 93
Mean 0.04661
Std Dev 0.7755

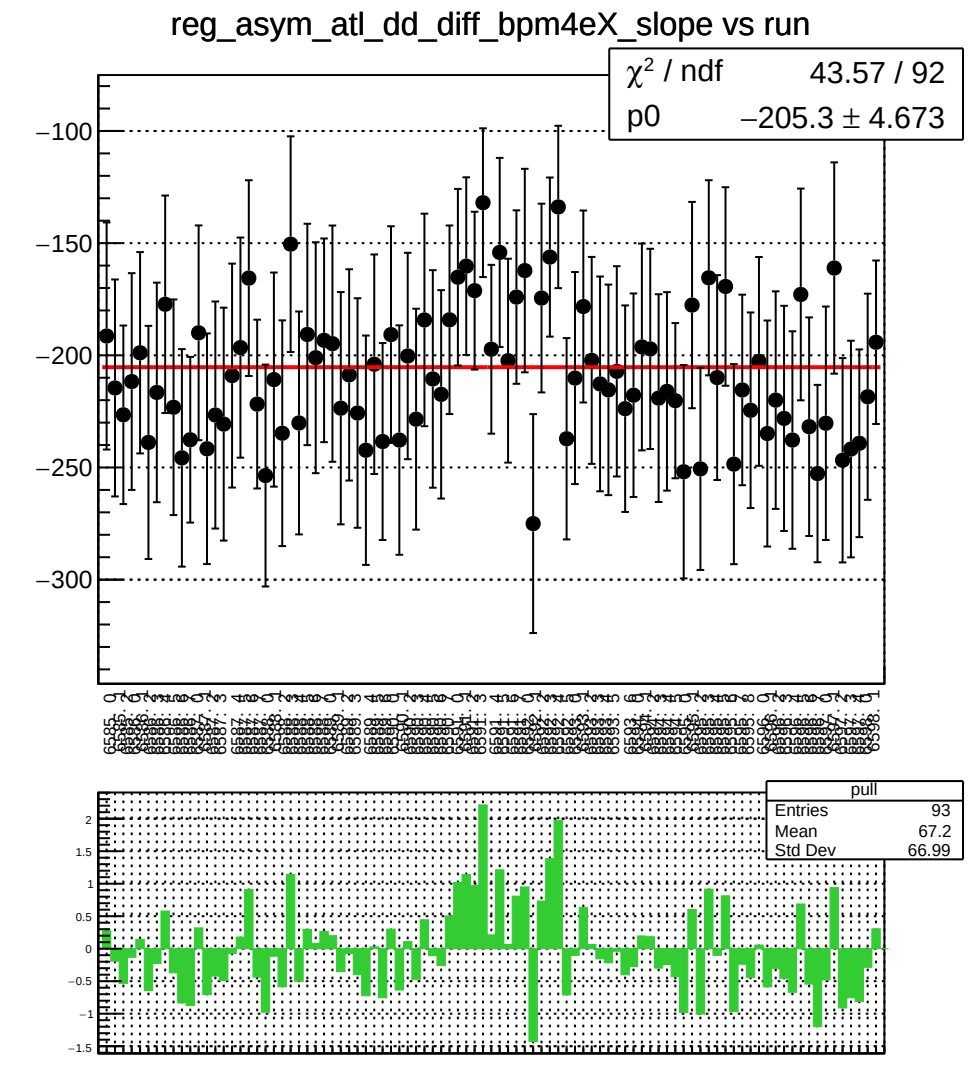

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.97 / 92
p0 54.02 ± 4.922
150
100
50
0
−50
pull
Entries 93
Mean 57.5
Std Dev 84.59
1.5
1
0.5
0
−0.5
pull1D
Entries 93
Mean −0.01749
Std Dev 0.4745
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

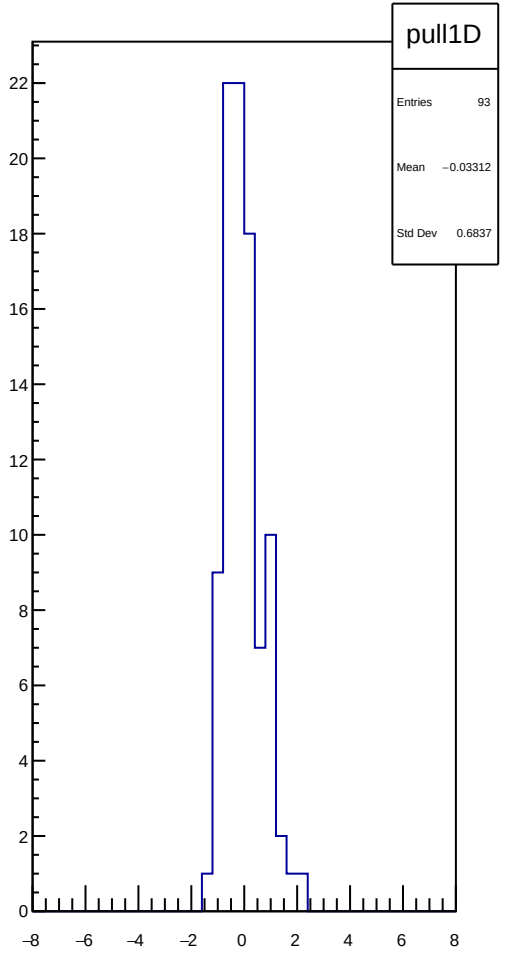

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 111.2 / 92
p0 −183.2 ± 0.2383
−175
−180
−185
−190
−195
−200
pull
Entries 93
Mean 109
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 93
Mean −0.01229
Std Dev 1.093
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

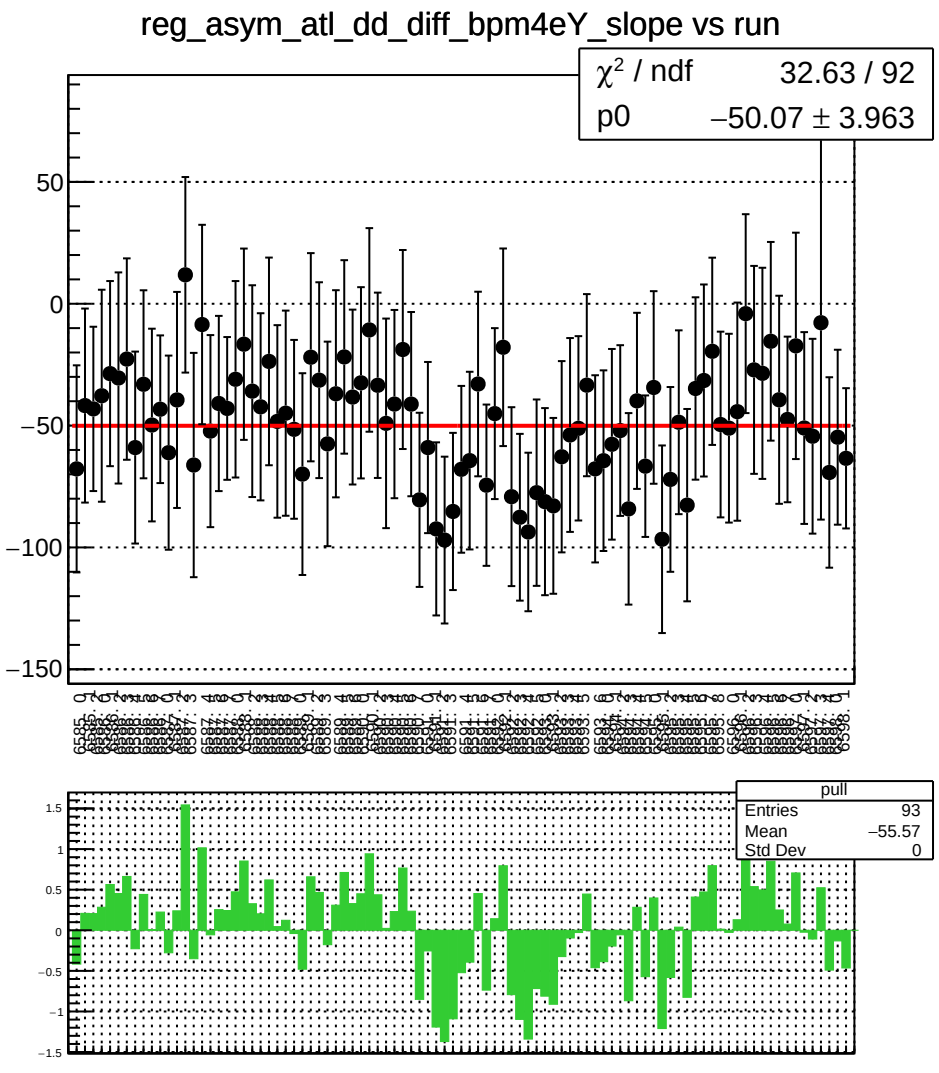

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 43.6 / 92
p0 242.7 ± 4.555
350
300
250
200
150
pull
Entries 93
Mean 65.15
Std Dev 68.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.03124
Std Dev 0.684
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

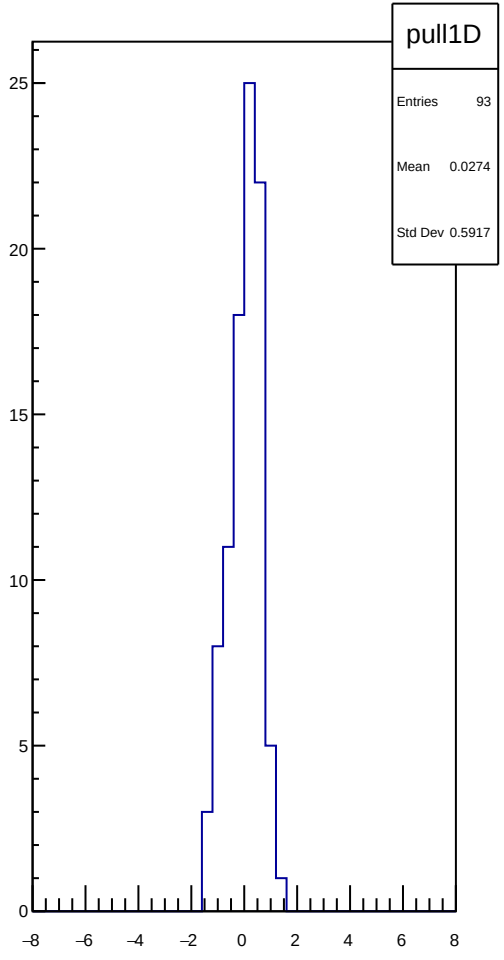

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.09 / 92
p0 −32.4 ± 3.33
50
0
−50
−100
−150
pull
Entries 93
Mean −34.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1

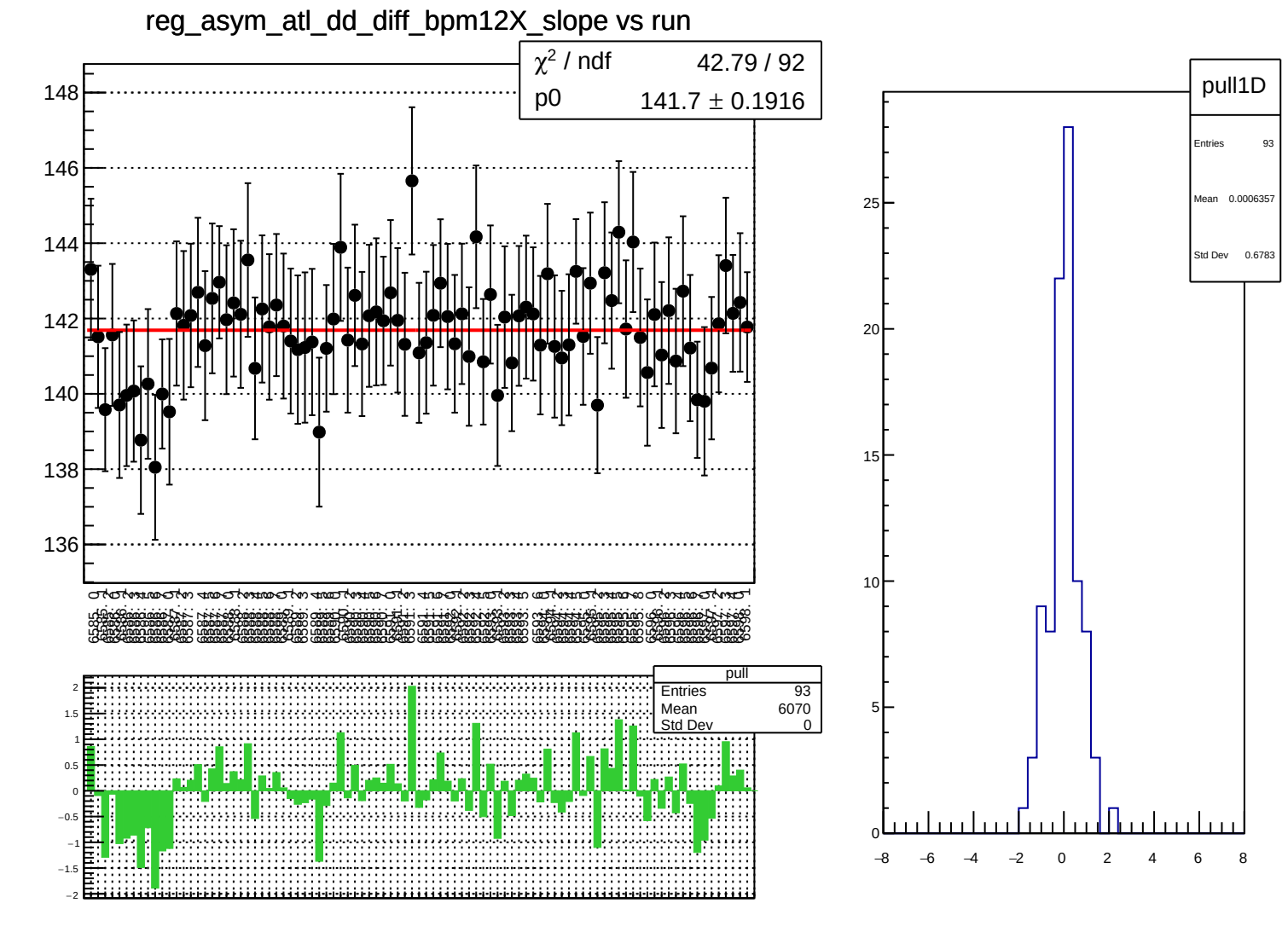

pull1D
Entries 93
Mean −0.02287
Std Dev 0.5392
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

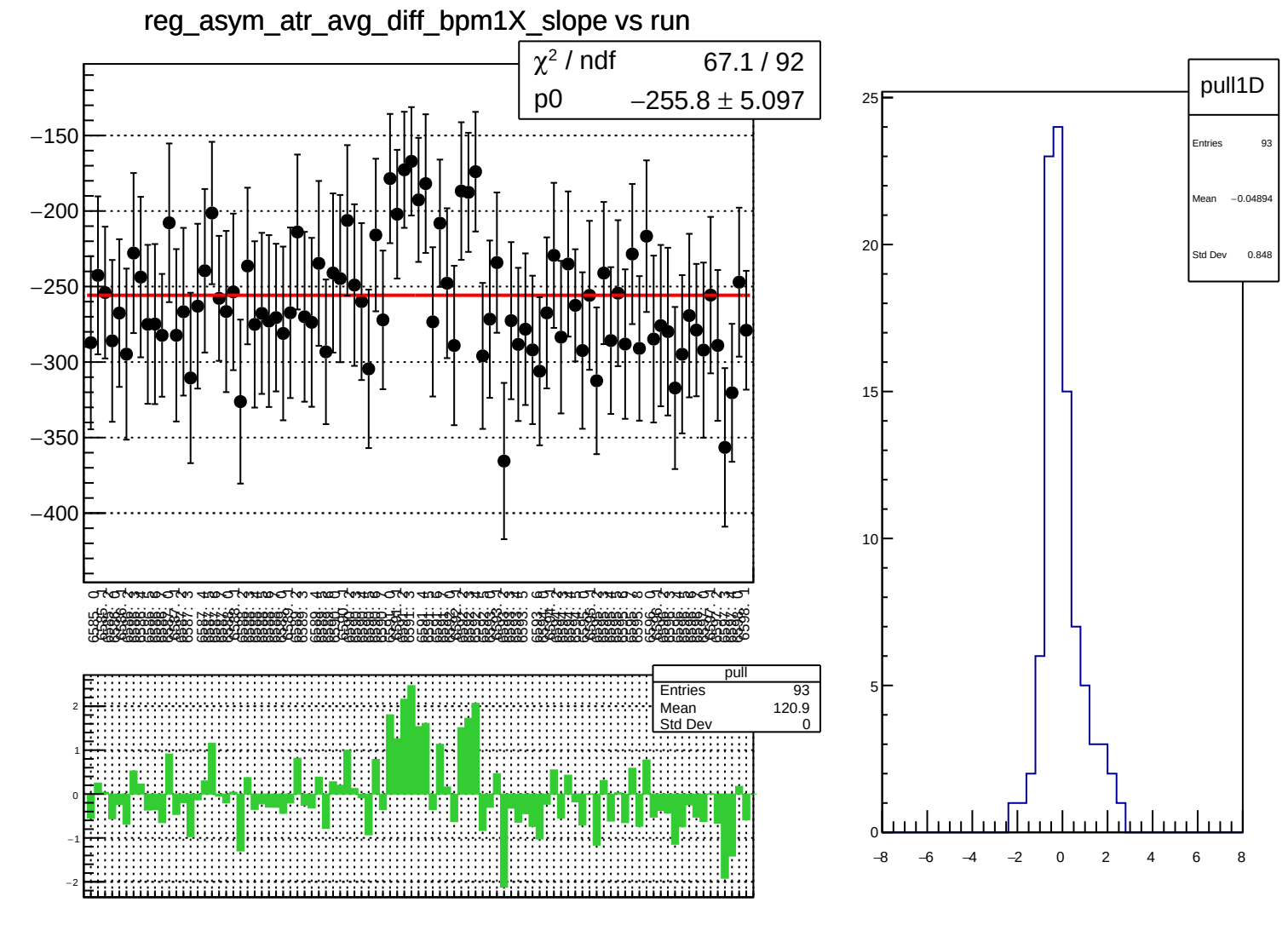

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 43.57 / 92
p0 −205.3 ± 4.673
−100
−150
−200
−250
−300
pull
Entries 93
Mean 67.2
Std Dev 66.99
2
1.5
1
0.5
0
−0.5
−1
−1.5

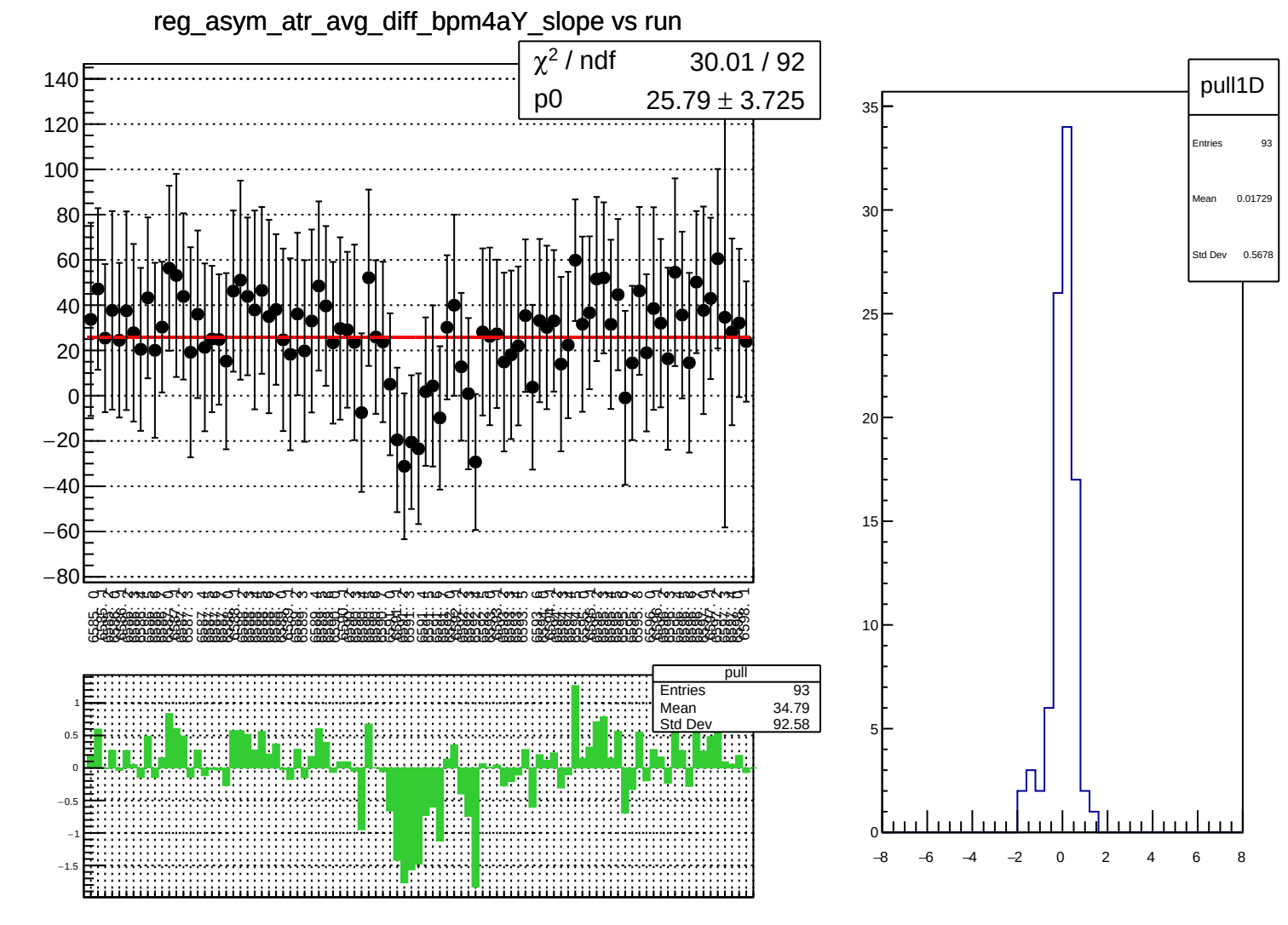

pull1D
Entries 93
Mean −0.03312
Std Dev 0.6837
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

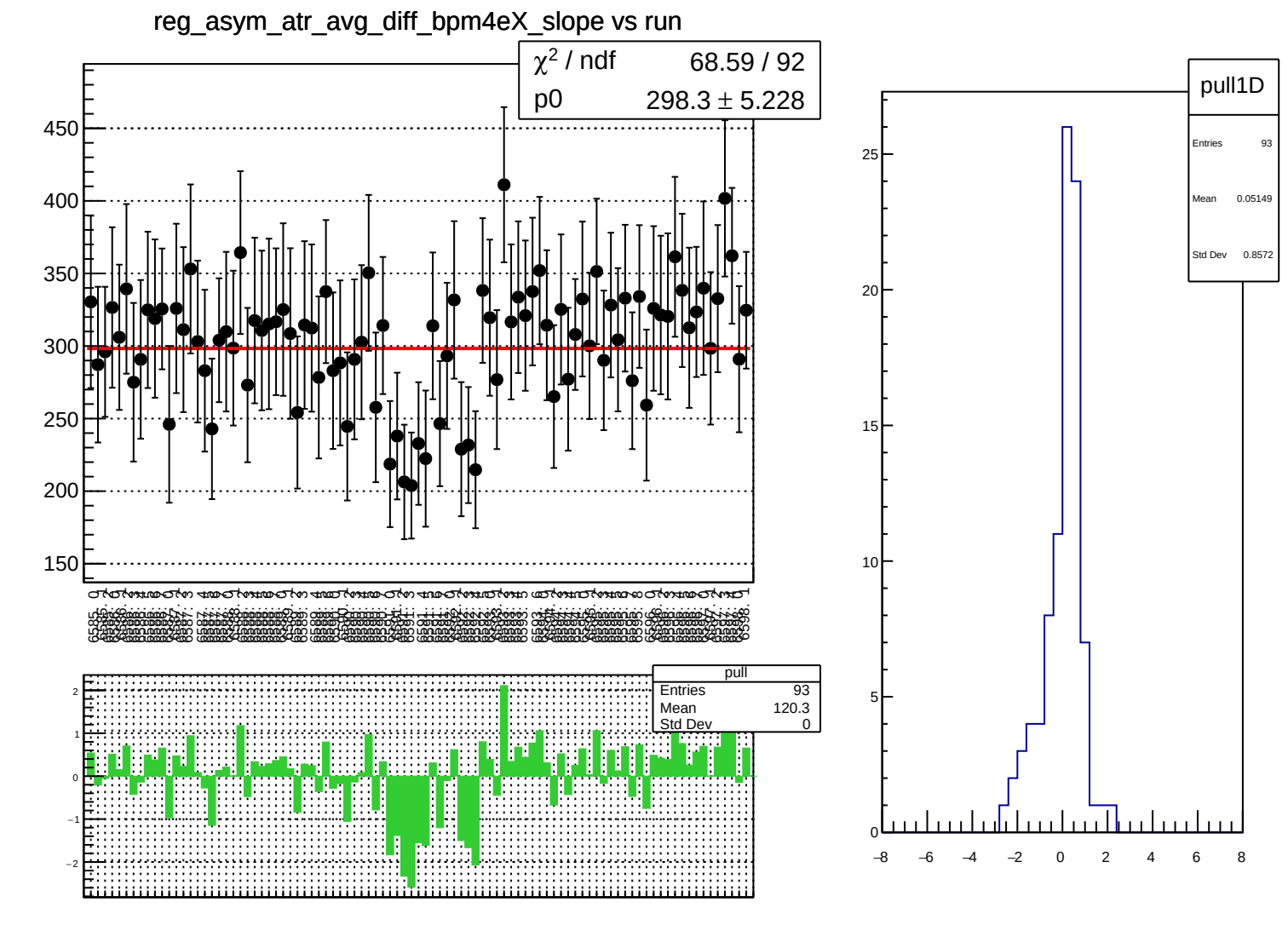

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.63 / 92
p0 −50.07 ± 3.963
50
0
−50
−100
−150
pull
Entries 93
Mean −55.57
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

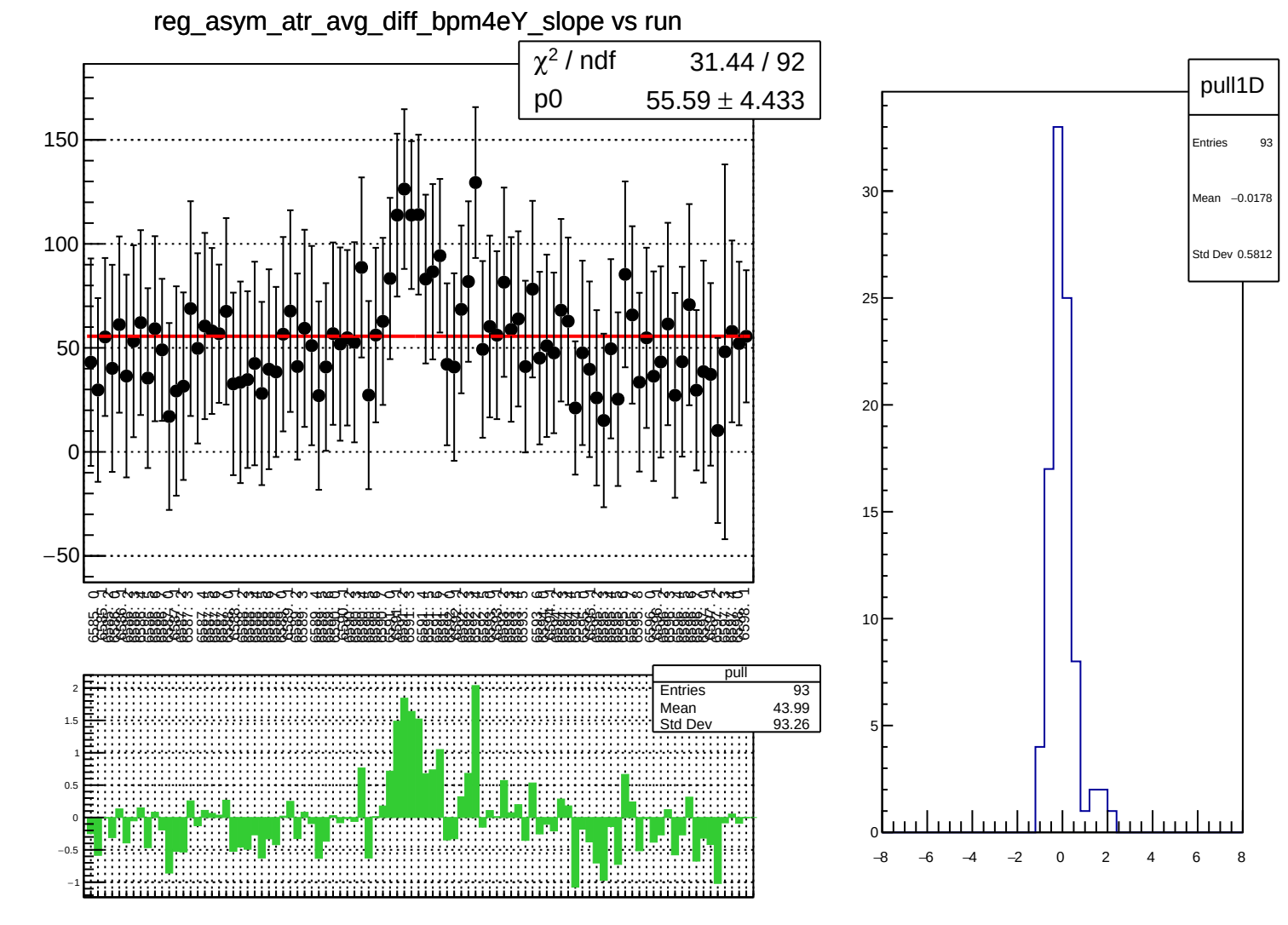

pull1D
Entries 93
Mean 0.0274
Std Dev 0.5917
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

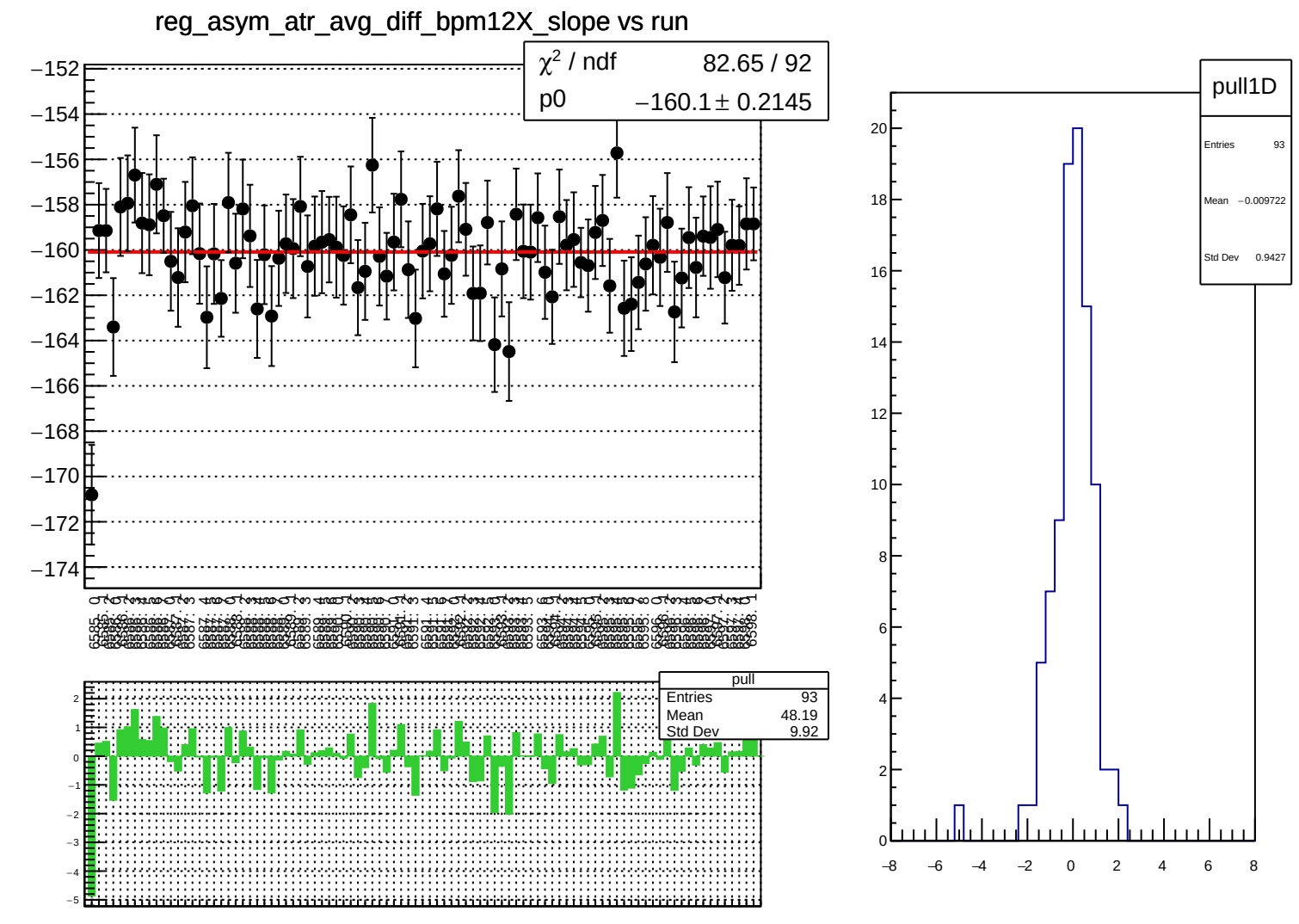

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 42.79 / 92
p0 141.7 ± 0.1916
148
146
144
142
140
138
136
pull
Entries 93
Mean 6070
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.0006357
Std Dev 0.6783
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

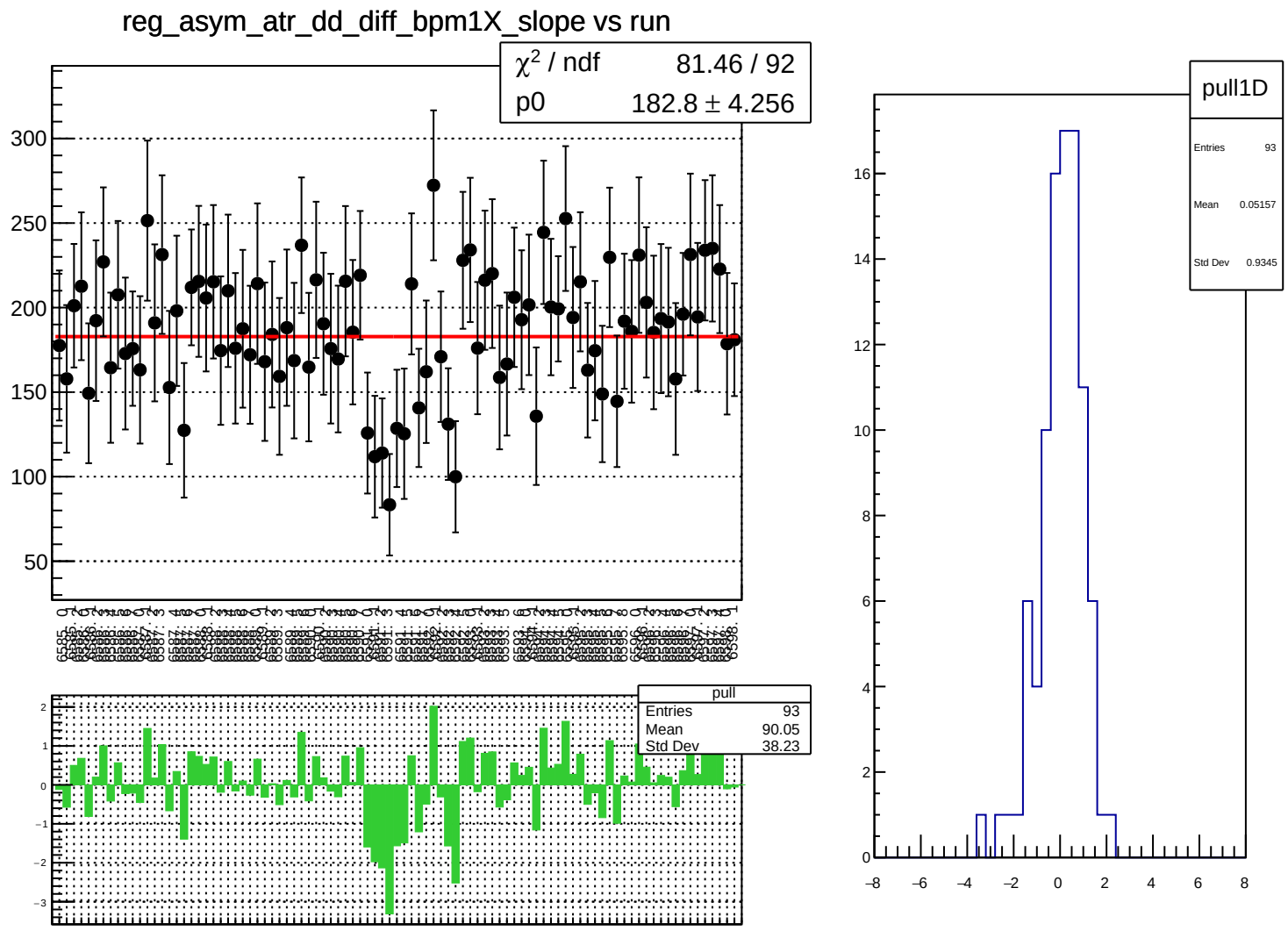

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 67.1 / 92
p0 −255.8 ± 5.097
−150
−200
−250
−300
−350
−400
pull
Entries 93
Mean 120.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.04894
Std Dev 0.848
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

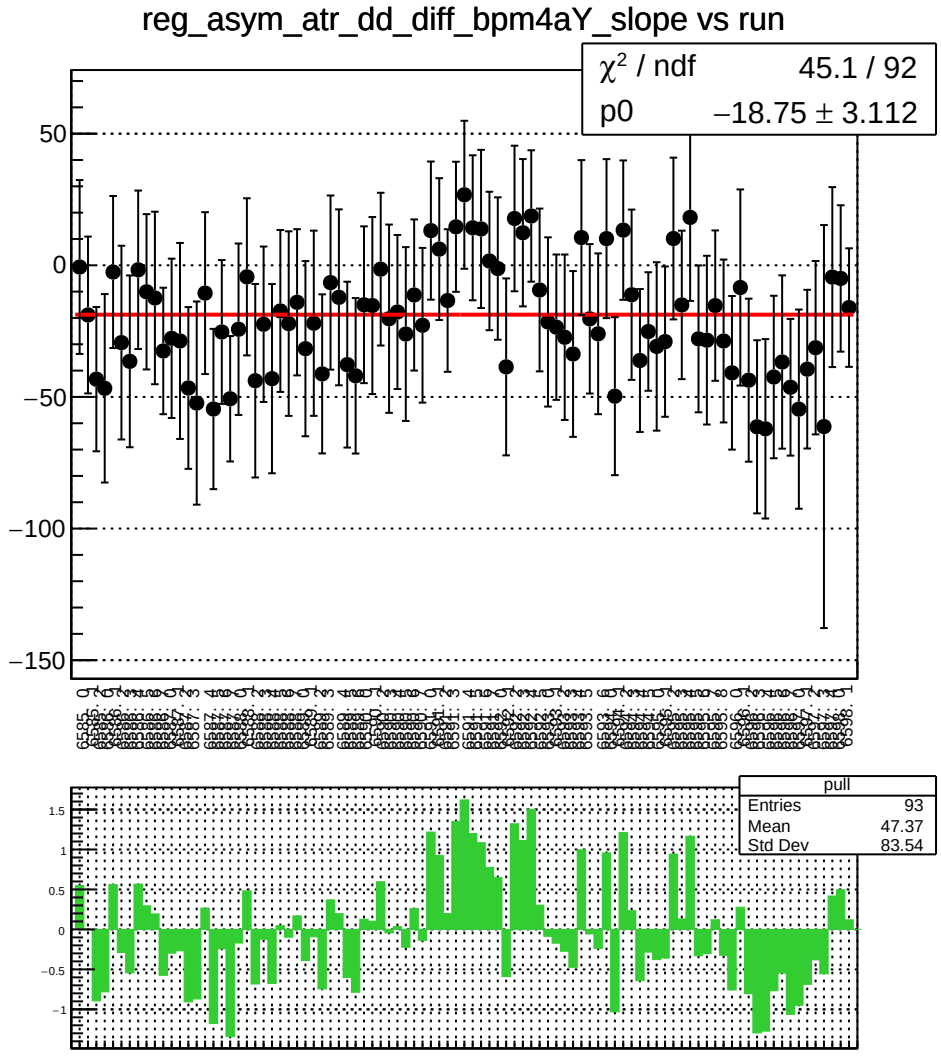

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.01 / 92
p0 25.79 ± 3.725
pull
Entries 93
Mean 34.79
Std Dev 92.58
pull1D
Entries 93
Mean 0.01729
Std Dev 0.5678

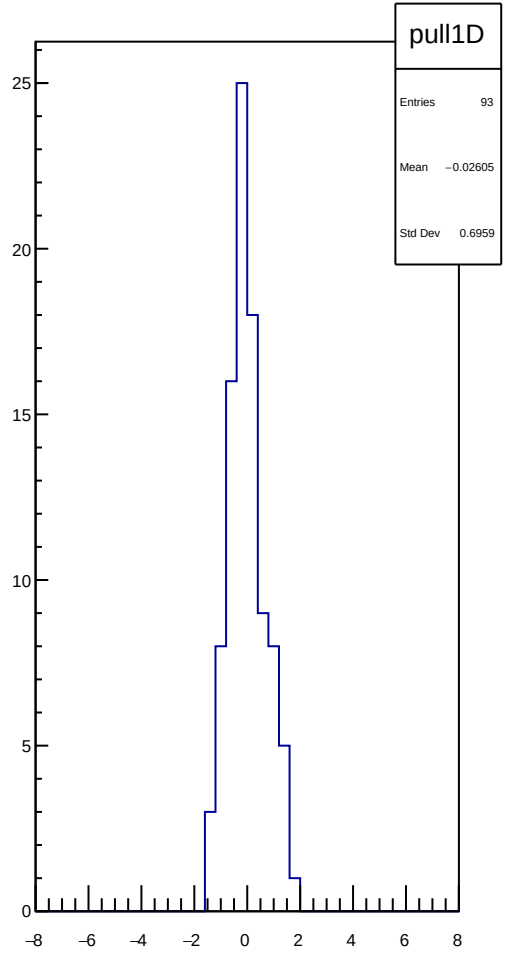

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.59 / 92
p0 298.3 ± 5.228
pull
Entries 93
Mean 120.3
Std Dev 0
pull1D
Entries 93
Mean 0.05149
Std Dev 0.8572

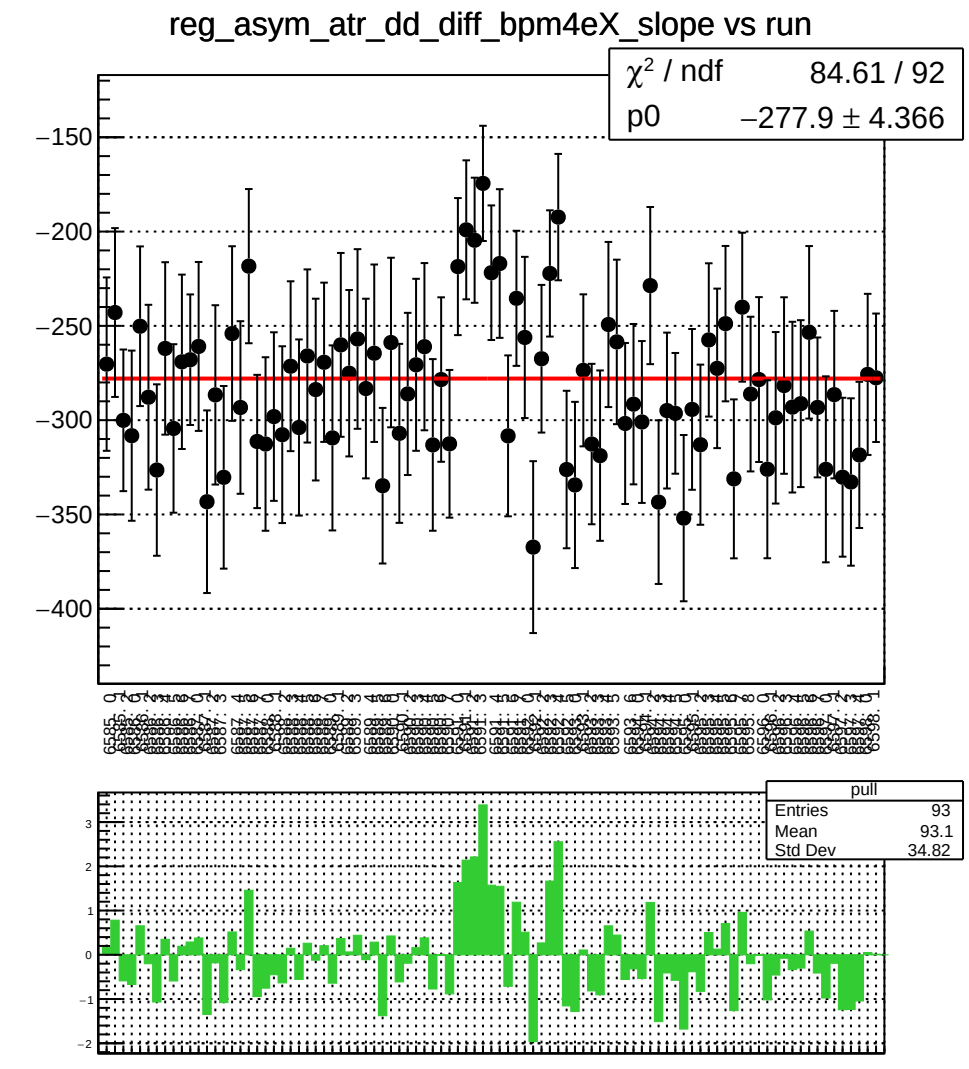

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.44 / 92
p0 55.59 ± 4.433
150
100
50
0
−50
pull
Entries 93
Mean 43.99
Std Dev 93.26
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.0178
Std Dev 0.5812
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

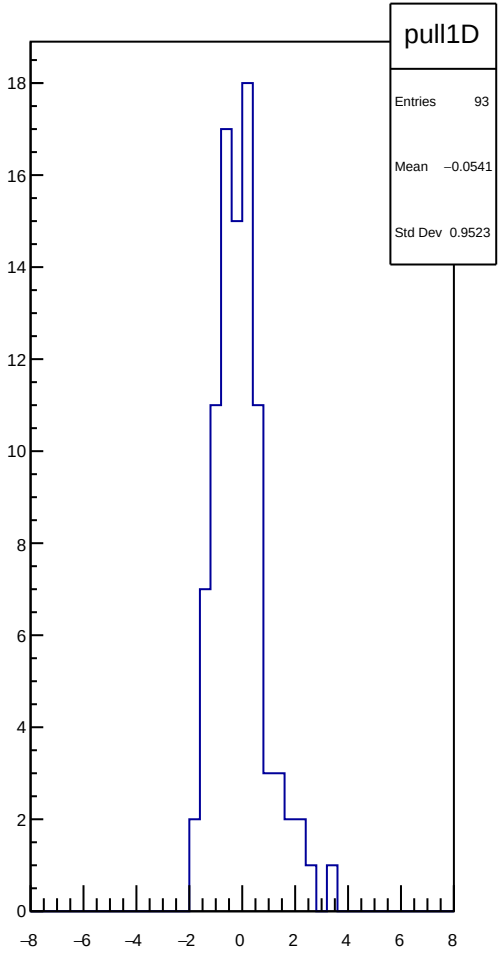

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 82.65 / 92
p0 −160.1 ± 0.2145
pull
Entries 93
Mean 48.19
Std Dev 9.92
pull1D
Entries 93
Mean −0.009722
Std Dev 0.9427

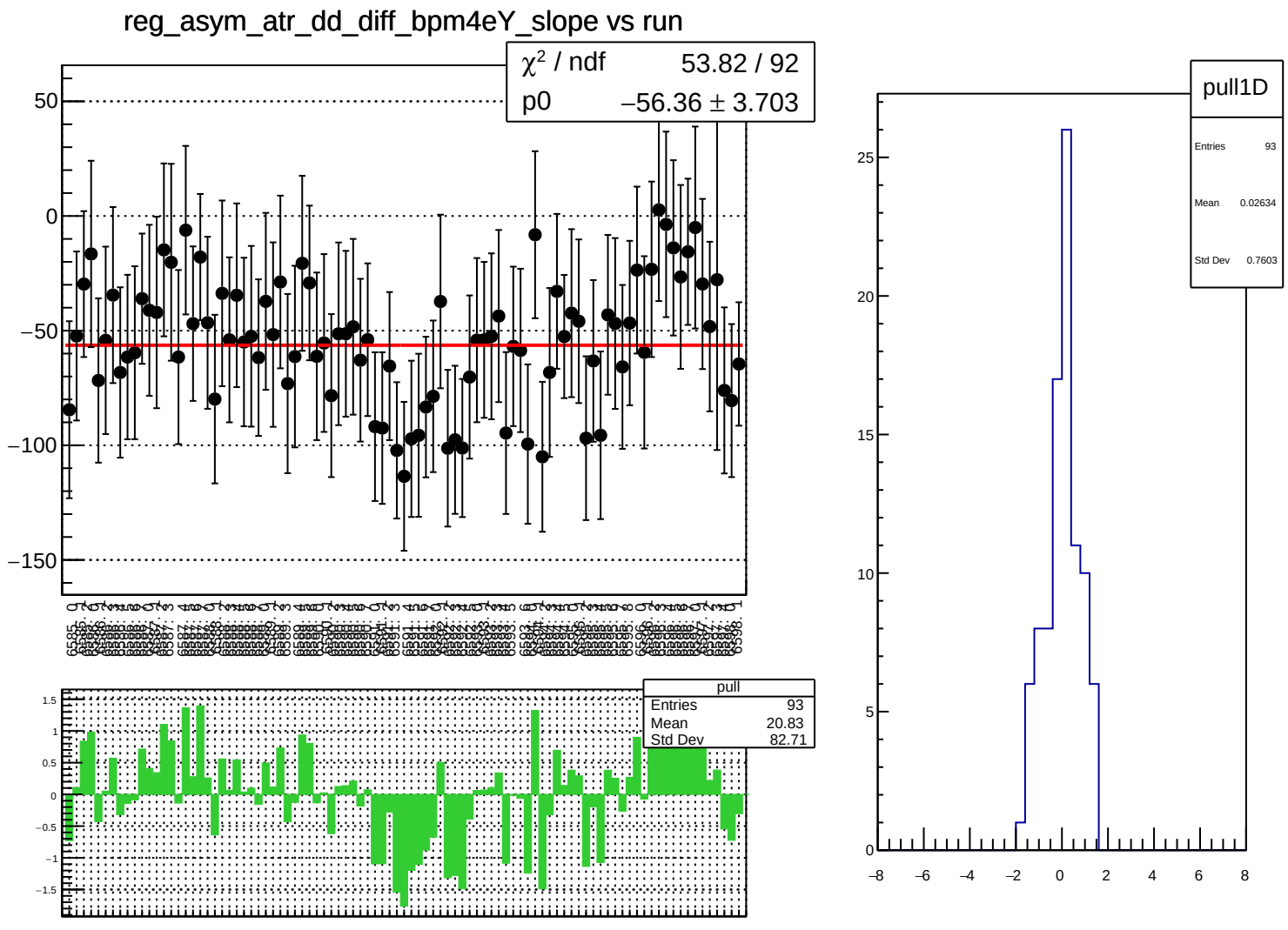

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 81.46 / 92
p0 182.8 ± 4.256
300
250
200
150
100
50
pull
Entries 93
Mean 90.05
Std Dev 38.23
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.05157
Std Dev 0.9345
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

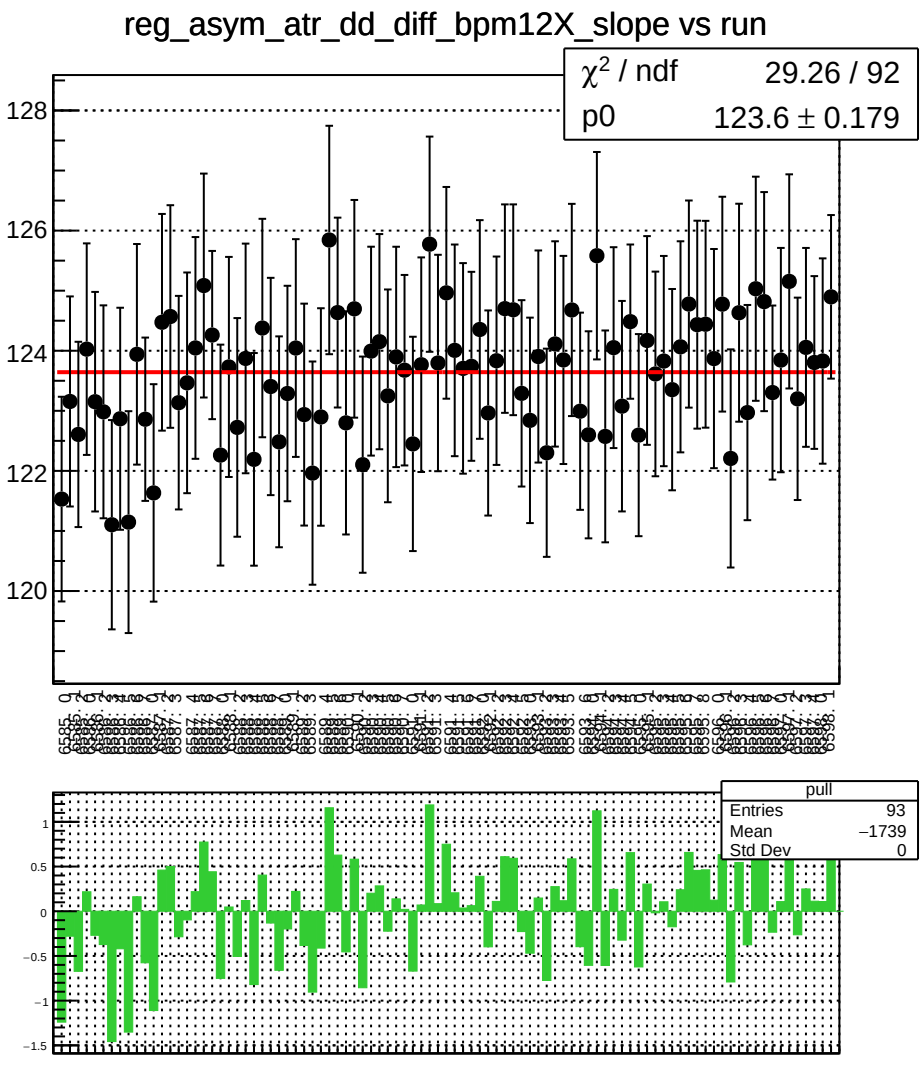

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.1 / 92
p0 −18.75 ± 3.112
50
0
−50
−100
−150
pull
Entries 93
Mean 47.37
Std Dev 83.54
1.5
1
0.5
0
−0.5
−1

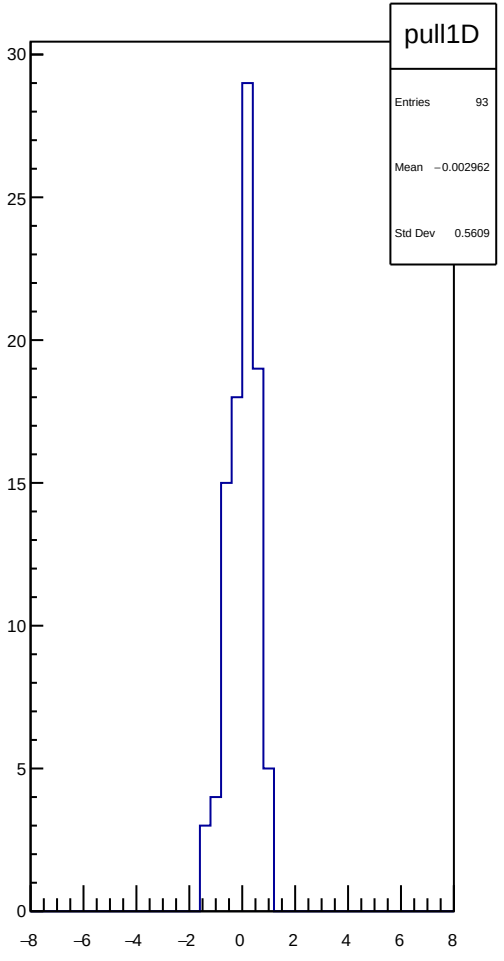

pull1D
Entries 93
Mean −0.02605
Std Dev 0.6959
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

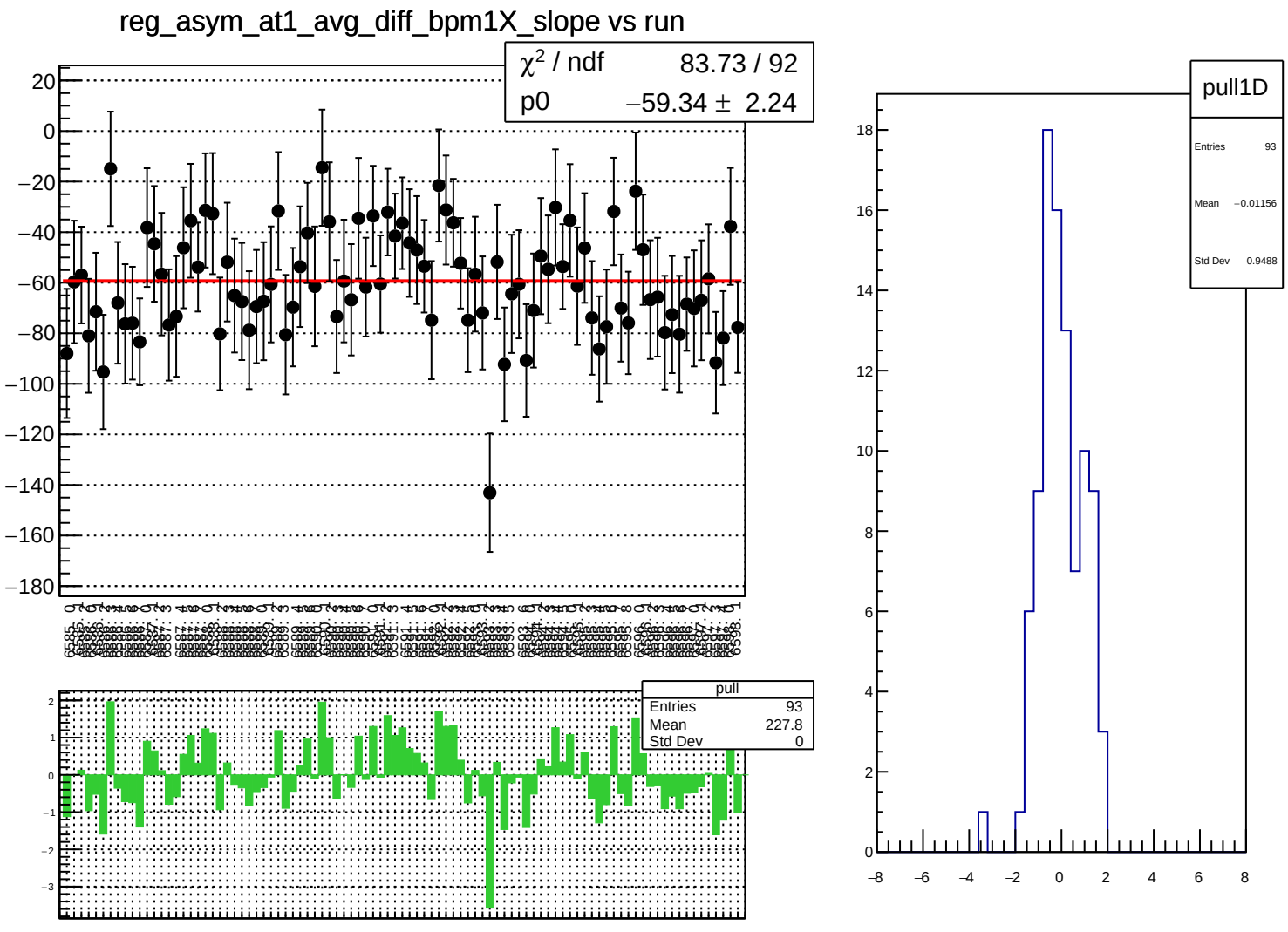

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.61 / 92
p0 −277.9 ± 4.366
pull
Entries 93
Mean 93.1
Std Dev 34.82

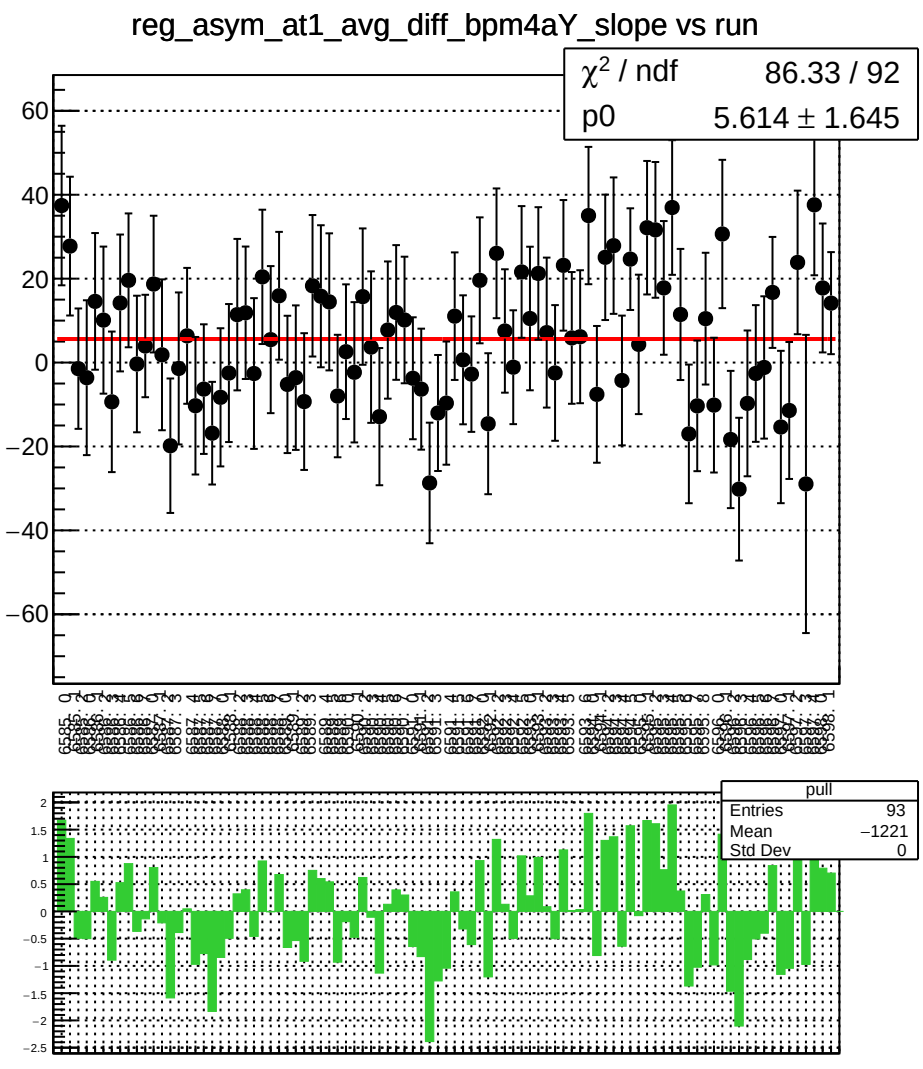

pull1D
Entries 93
Mean −0.0541
Std Dev 0.9523

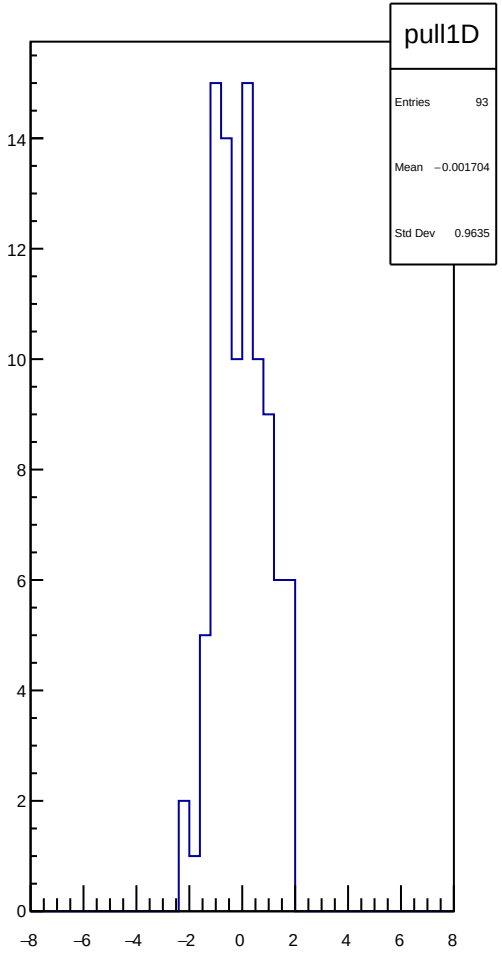

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.82 / 92
p0 −56.36 ± 3.703
50
0
−50
−100
−150
pull
Entries 93
Mean 20.83
Std Dev 82.71
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.02634
Std Dev 0.7603
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

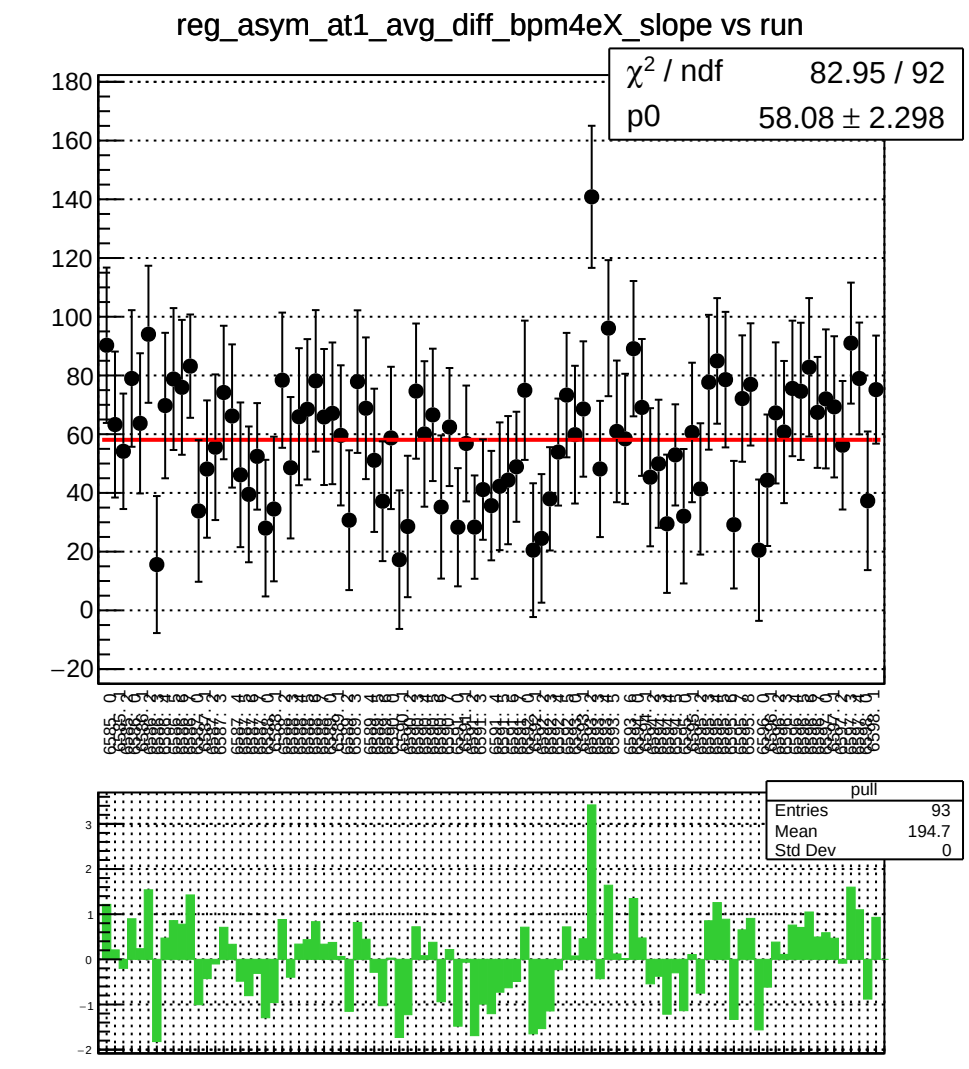

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 29.26 / 92
p0 123.6 ± 0.179
128
126
124
122
120
pull
Entries 93
Mean −1739
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

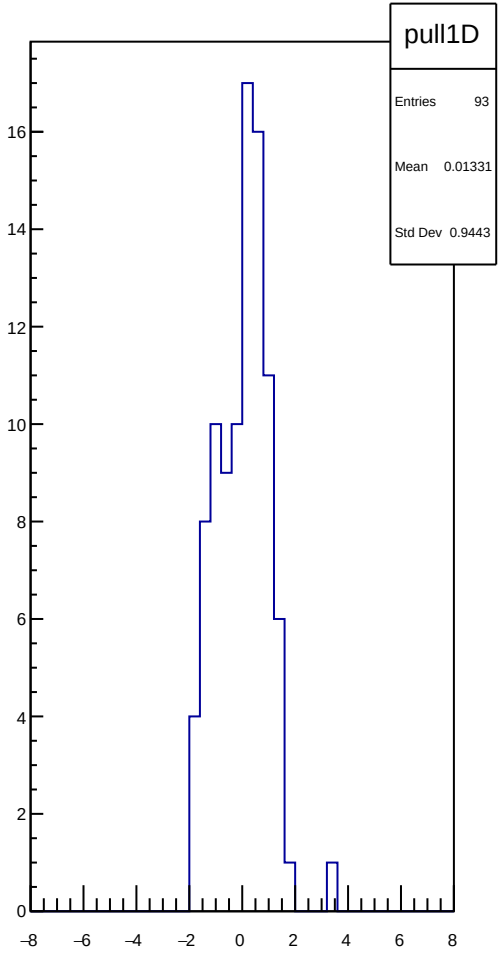

pull1D
Entries 93
Mean −0.002962
Std Dev 0.5609
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

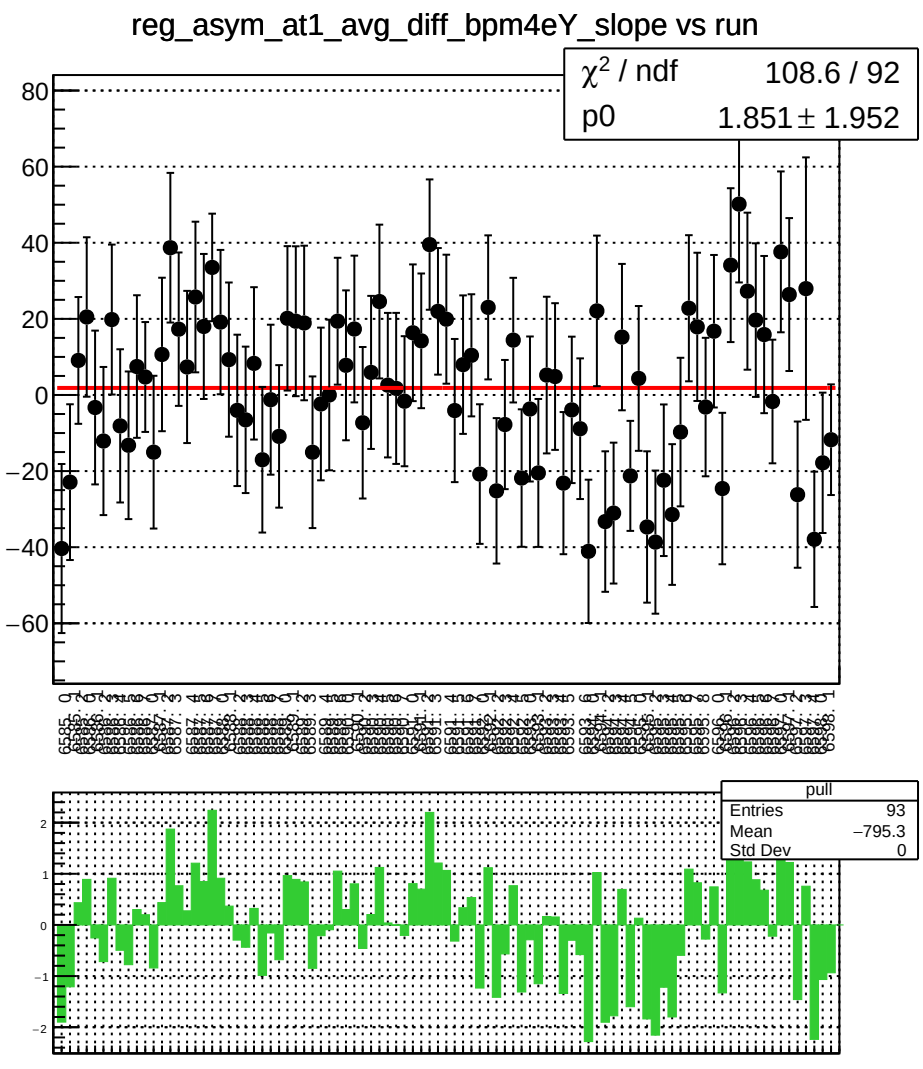

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 83.73 / 92
p0 −59.34 ± 2.24
pull
Entries 93
Mean 227.8
Std Dev 0
pull1D
Entries 93
Mean −0.01156
Std Dev 0.9488

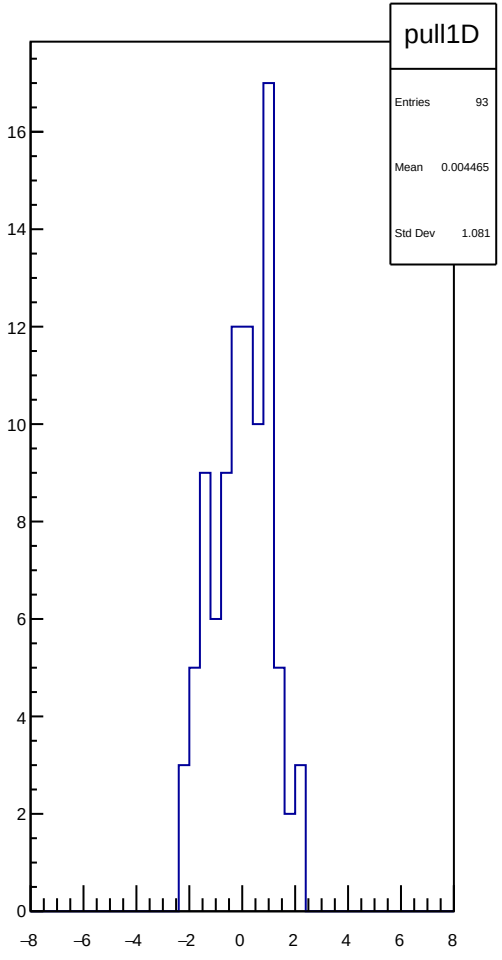

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 86.33 / 92
p0 5.614 ± 1.645
pull
Entries 93
Mean −1221
Std Dev 0

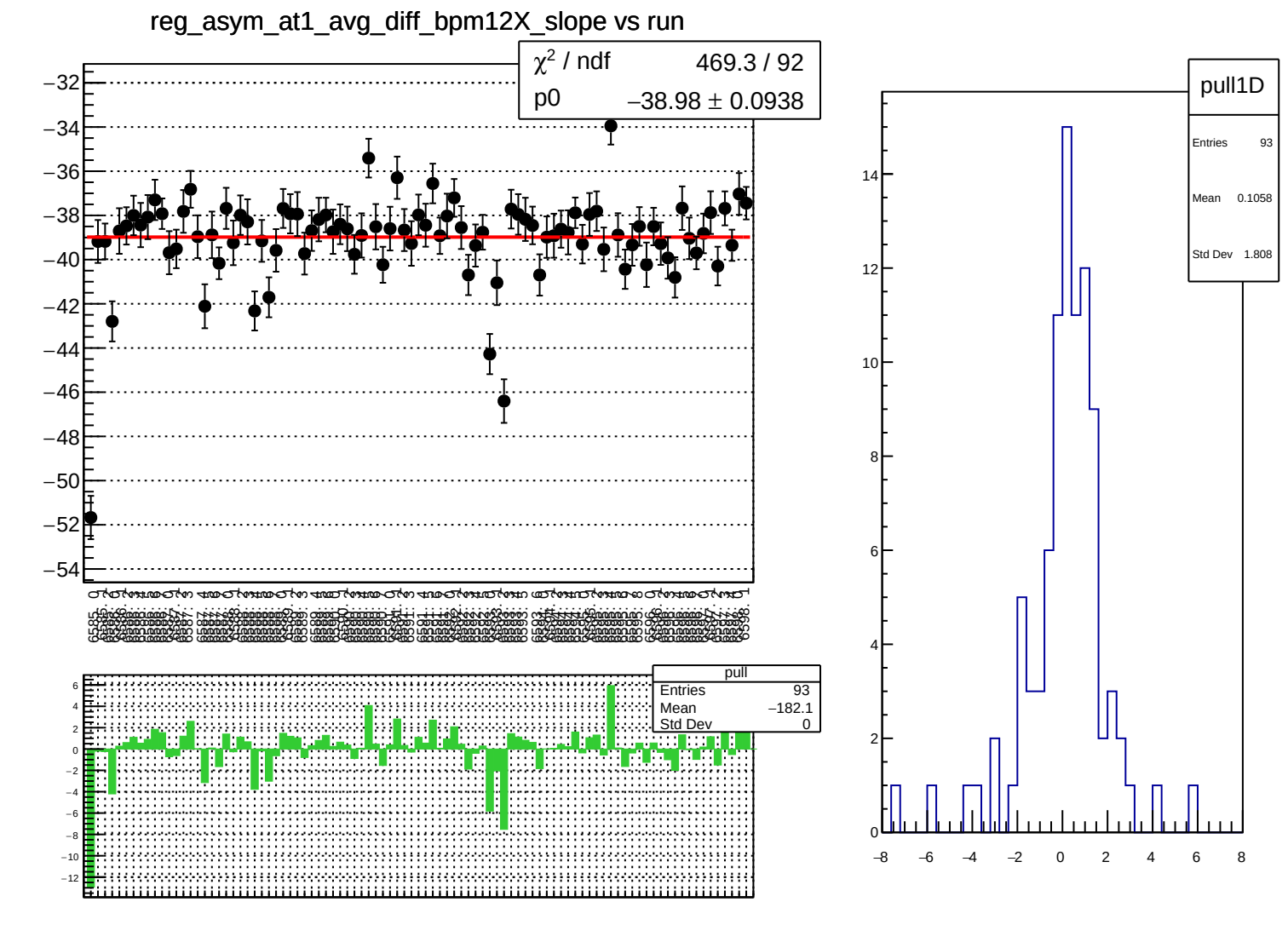

pull1D
Entries 93
Mean −0.001704
Std Dev 0.9635

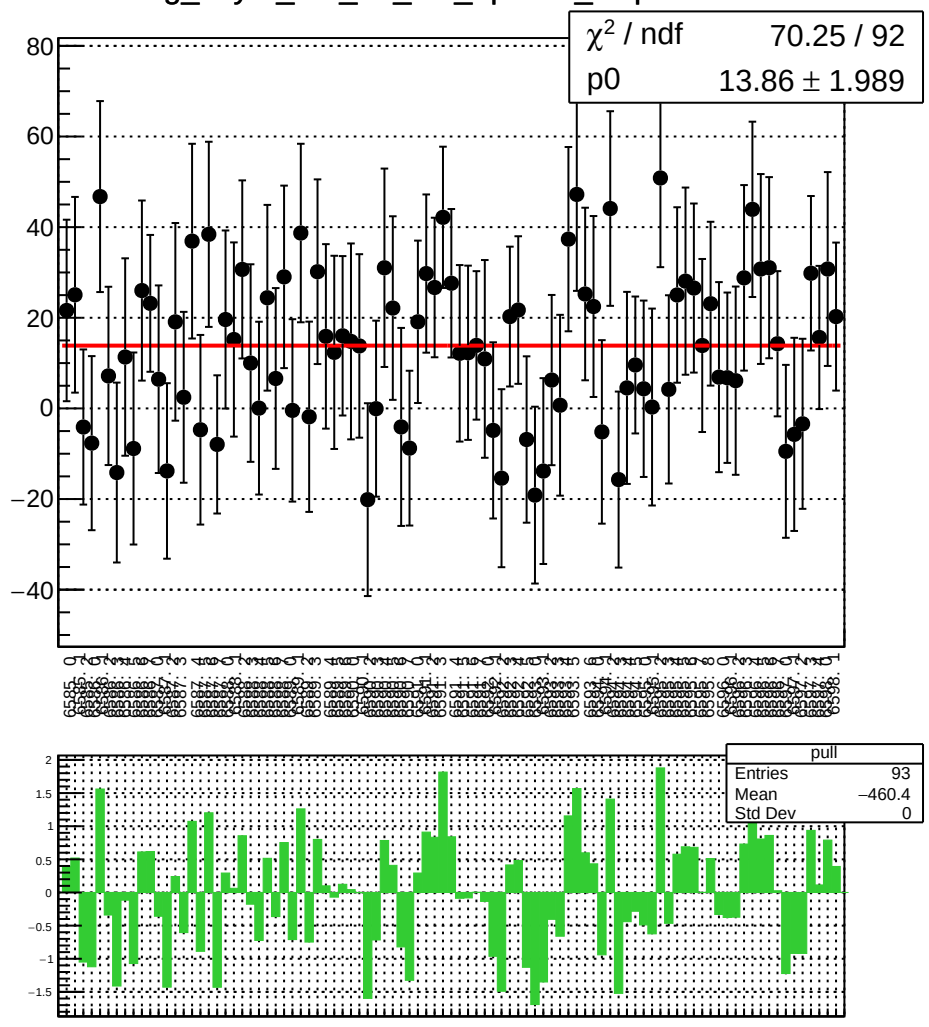

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 82.95 / 92
p0 58.08 ± 2.298
pull
Entries 93
Mean 194.7
Std Dev 0

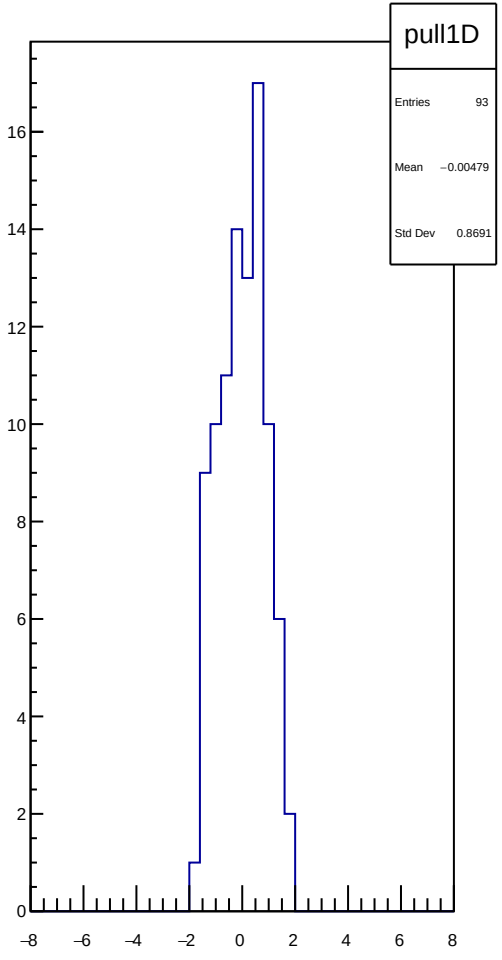

pull1D
Entries 93
Mean 0.01331
Std Dev 0.9443

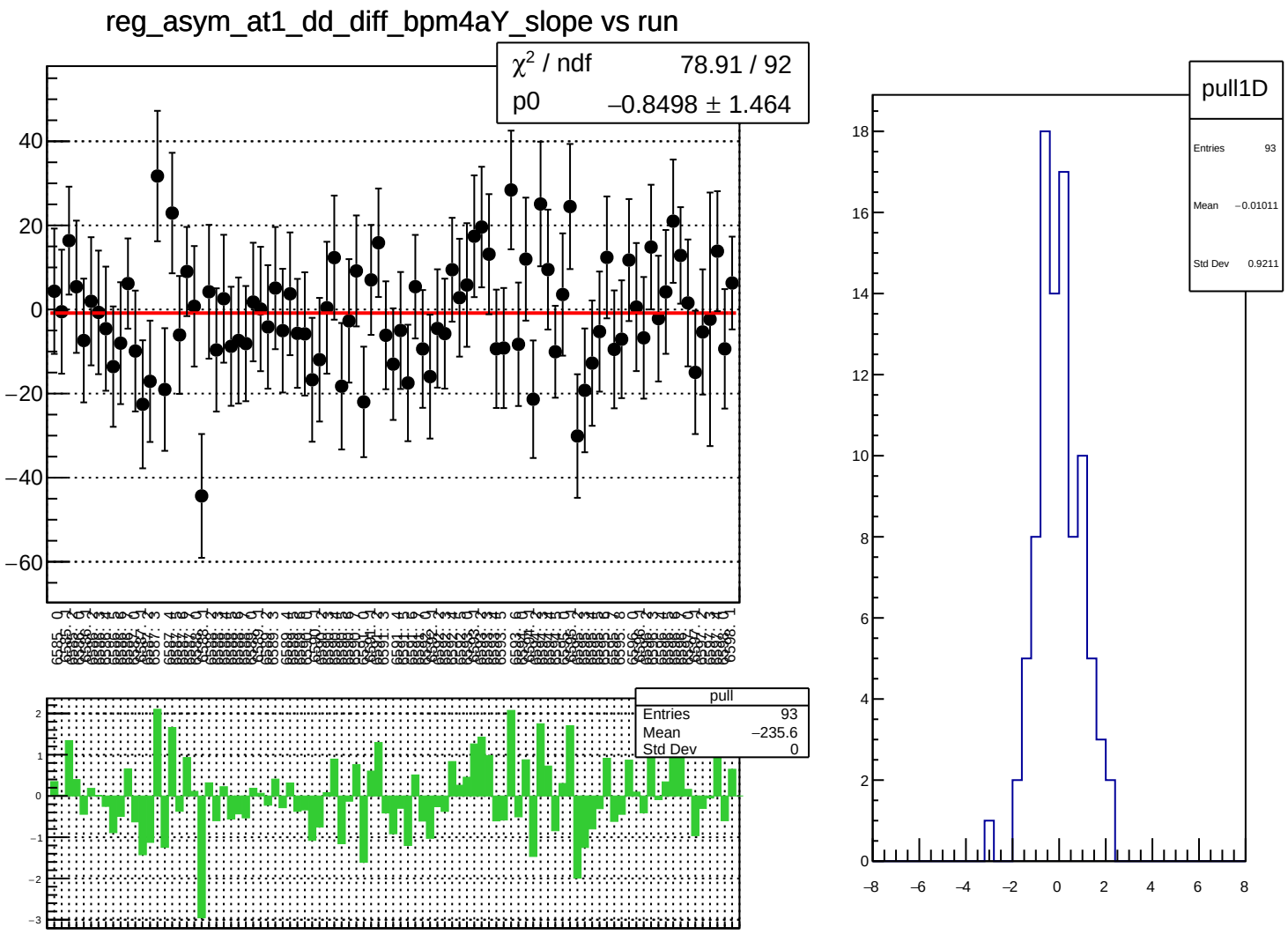

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 108.6 / 92
p0 1.851 ± 1.952
pull
Entries 93
Mean −795.3
Std Dev 0

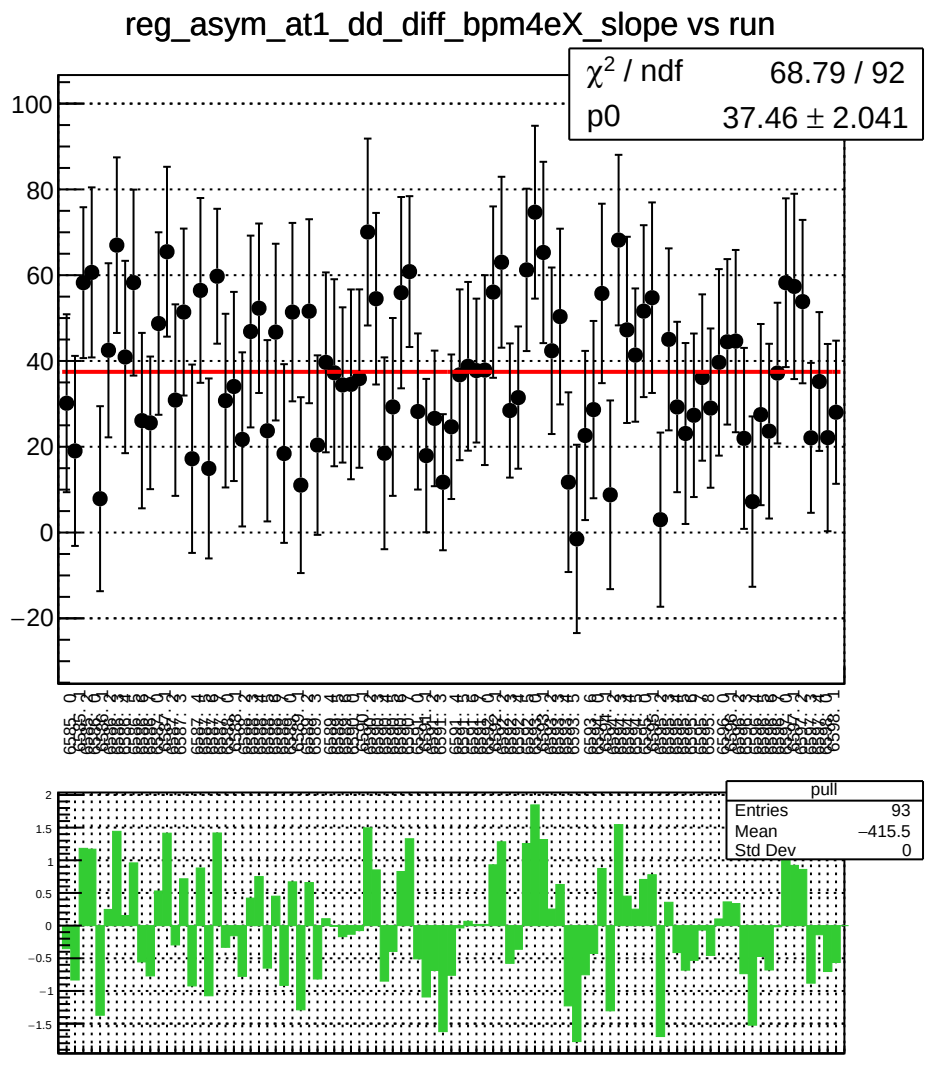

pull1D
Entries 93
Mean 0.004465
Std Dev 1.081

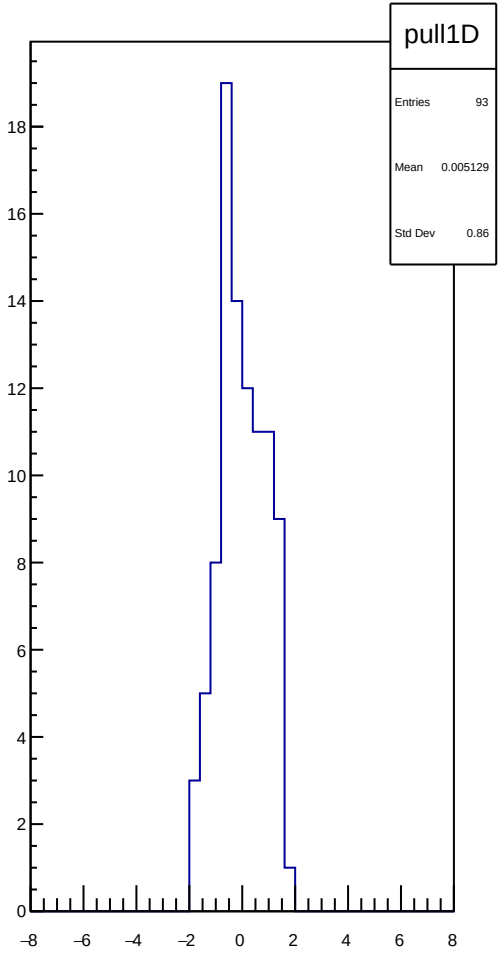

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 469.3 / 92
p0 −38.98 ± 0.0938
pull
Entries 93
Mean −182.1
Std Dev 0
pull1D
Entries 93
Mean 0.1058
Std Dev 1.808

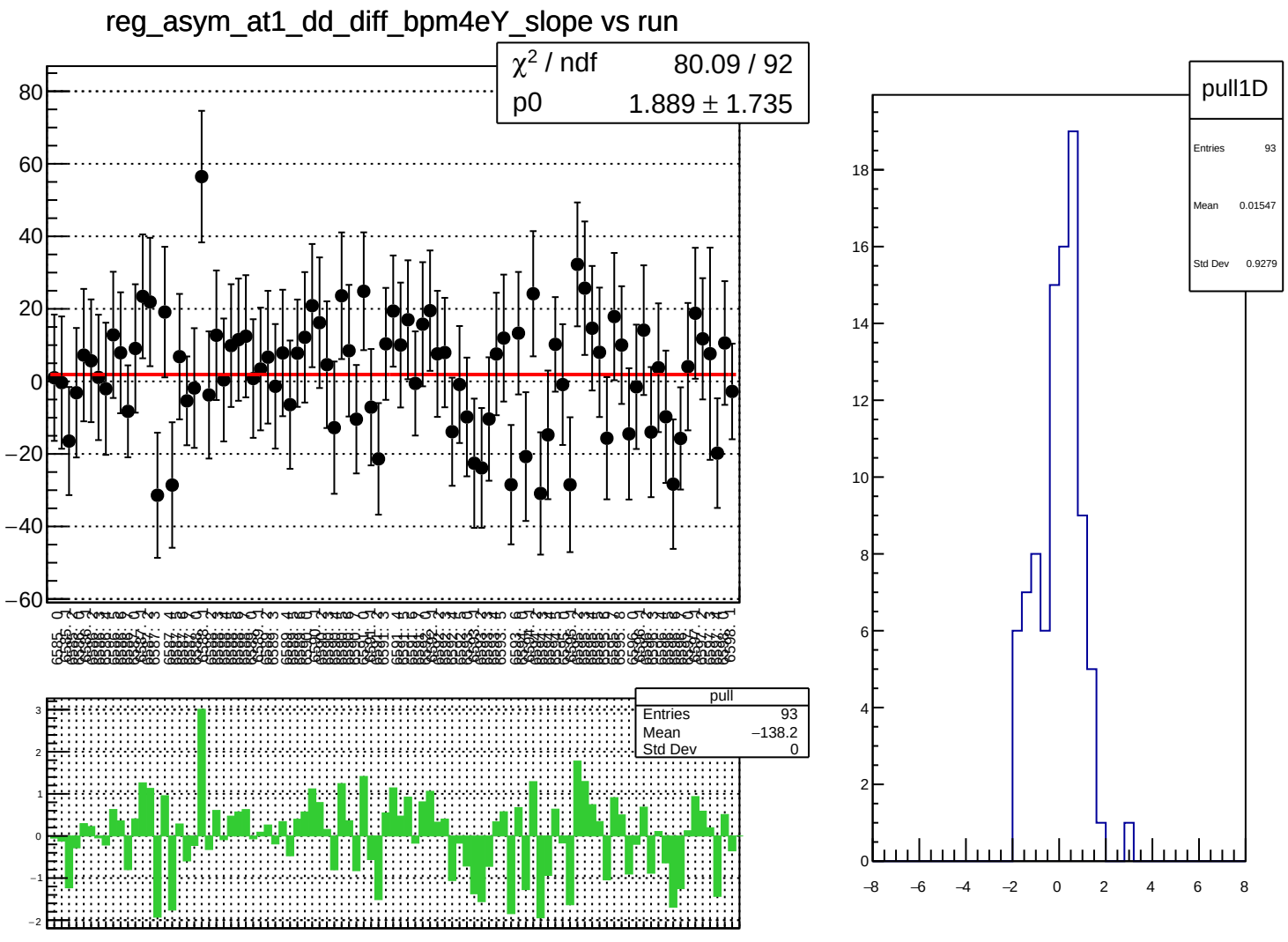

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 70.25 / 92
p0 13.86 ± 1.989
pull
Entries 93
Mean −460.4
Std Dev 0

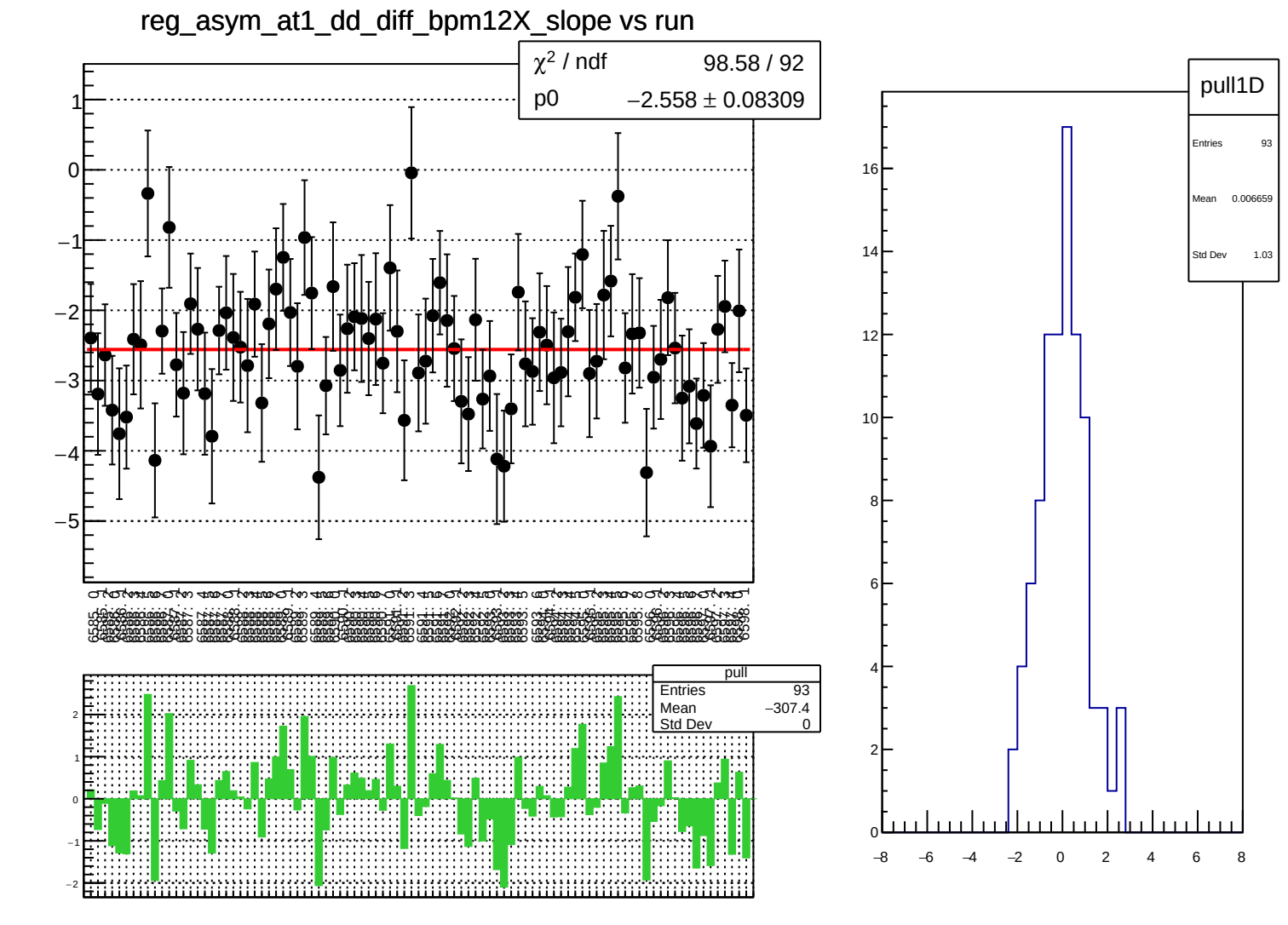

pull1D
Entries 93
Mean −0.00479
Std Dev 0.8691

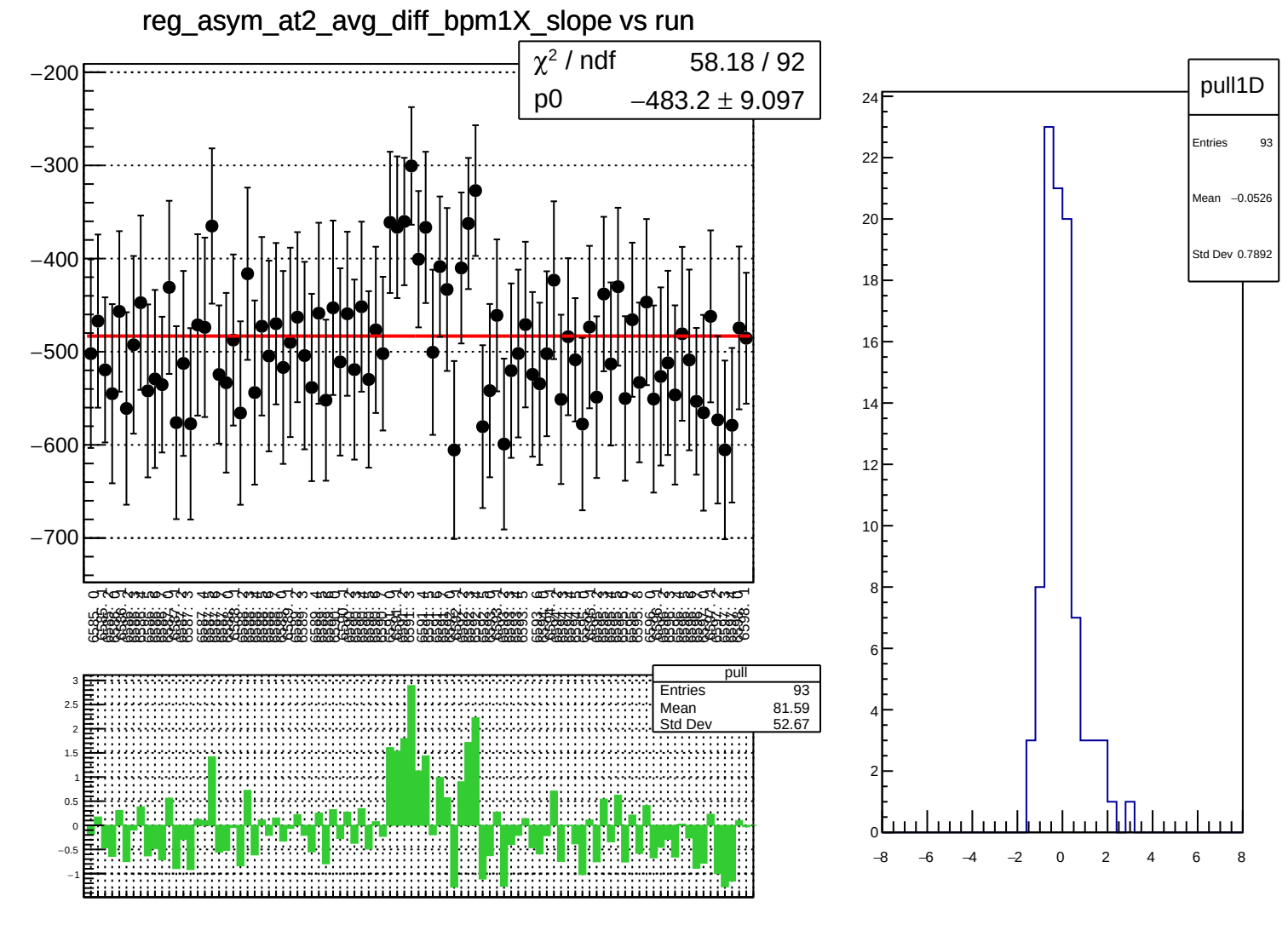

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.91 / 92
p0 −0.8498 ± 1.464
pull
Entries 93
Mean −235.6
Std Dev 0
pull1D
Entries 93
Mean −0.01011
Std Dev 0.9211

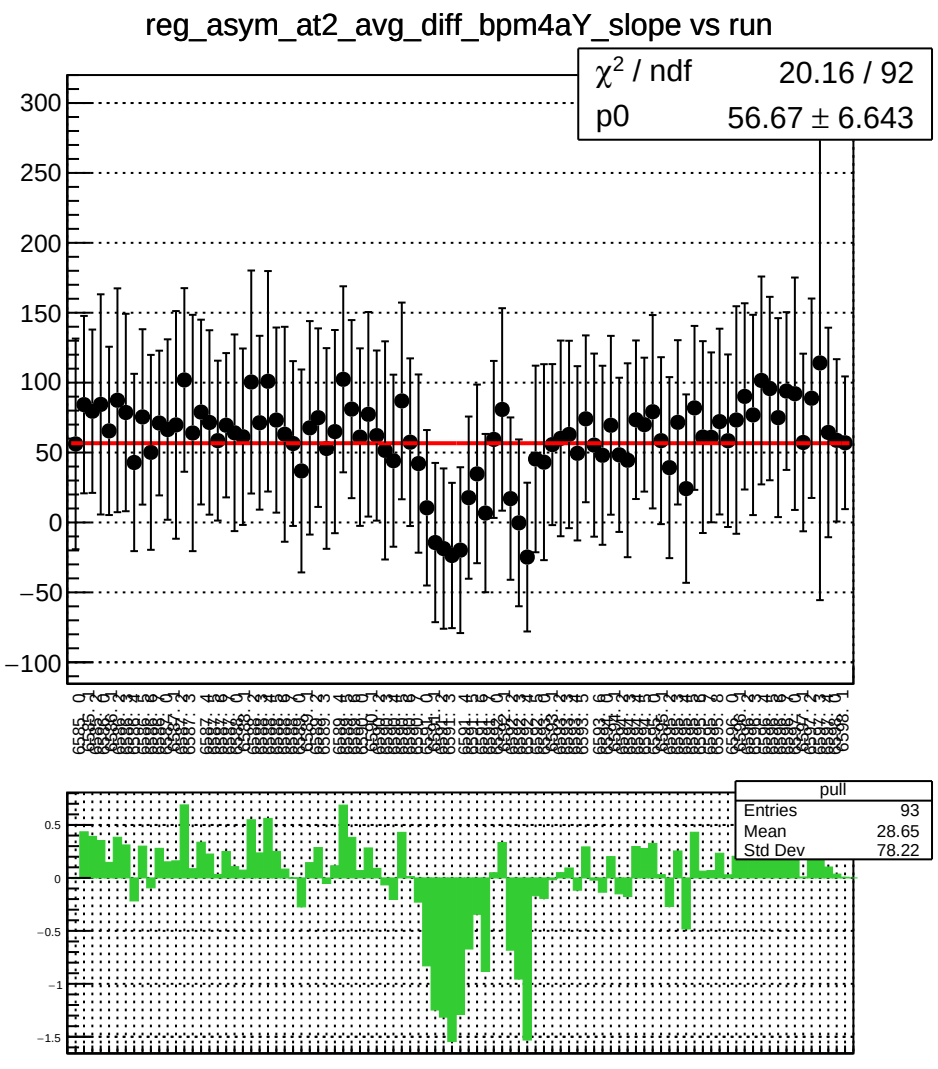

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.79 / 92
p0 37.46 ± 2.041
pull
Entries 93
Mean −415.5
Std Dev 0

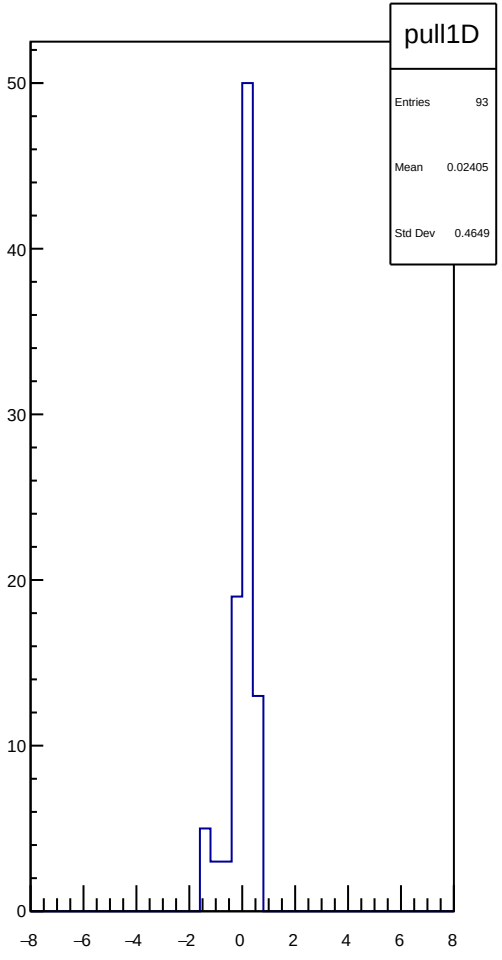

pull1D
Entries 93
Mean 0.005129
Std Dev 0.86

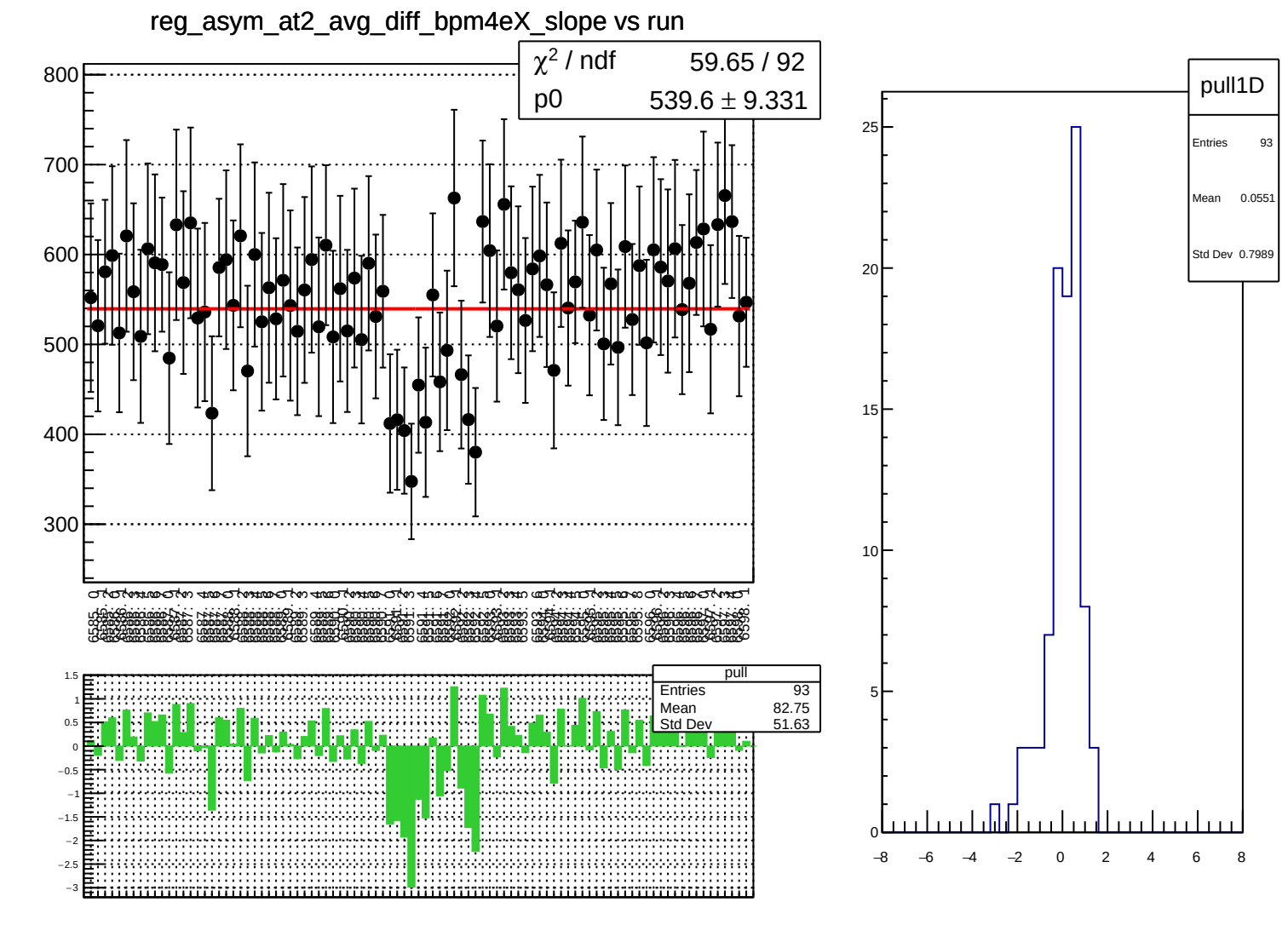

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.09 / 92
p0 1.889 ± 1.735
pull
Entries 93
Mean −138.2
Std Dev 0
pull1D
Entries 93
Mean 0.01547
Std Dev 0.9279

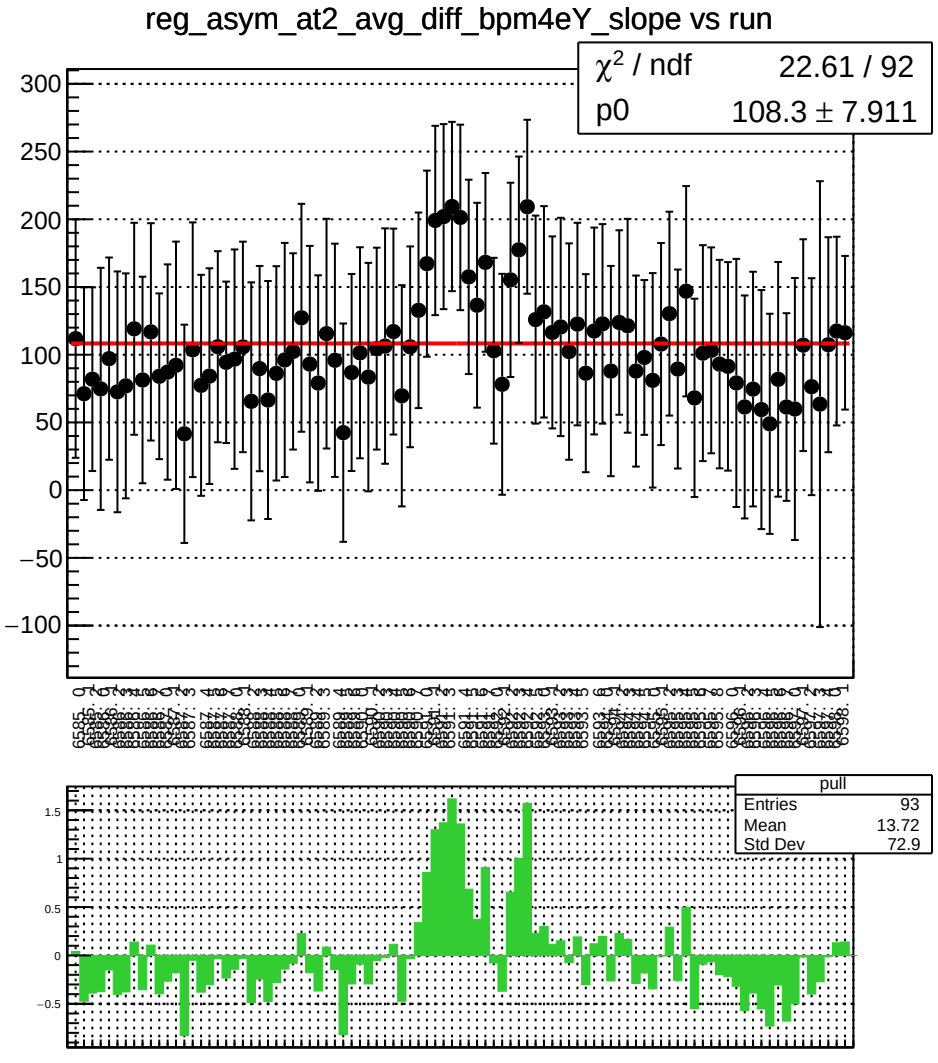

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 98.58 / 92
p0 −2.558 ± 0.08309
pull
Entries 93
Mean −307.4
Std Dev 0
pull1D
Entries 93
Mean 0.006659
Std Dev 1.03

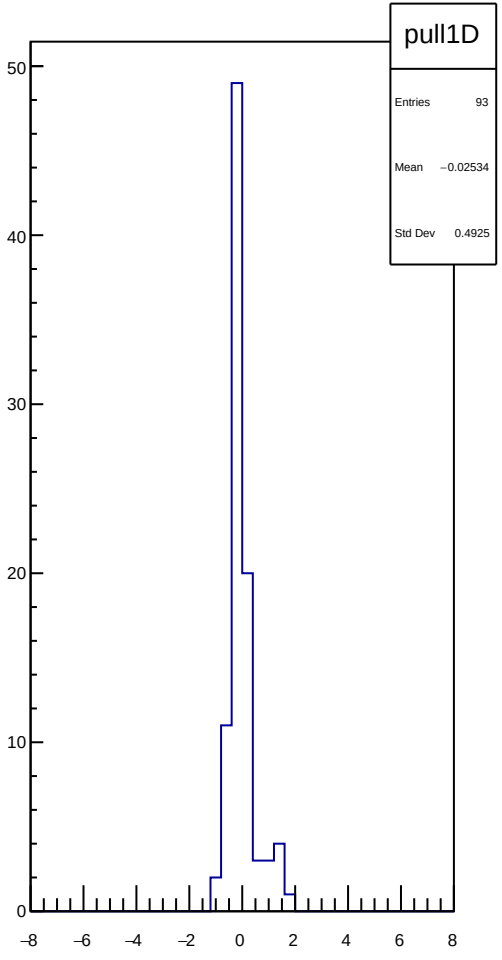

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 58.18 / 92
p0 −483.2 ± 9.097
pull
Entries 93
Mean 81.59
Std Dev 52.67
pull1D
Entries 93
Mean −0.0526
Std Dev 0.7892

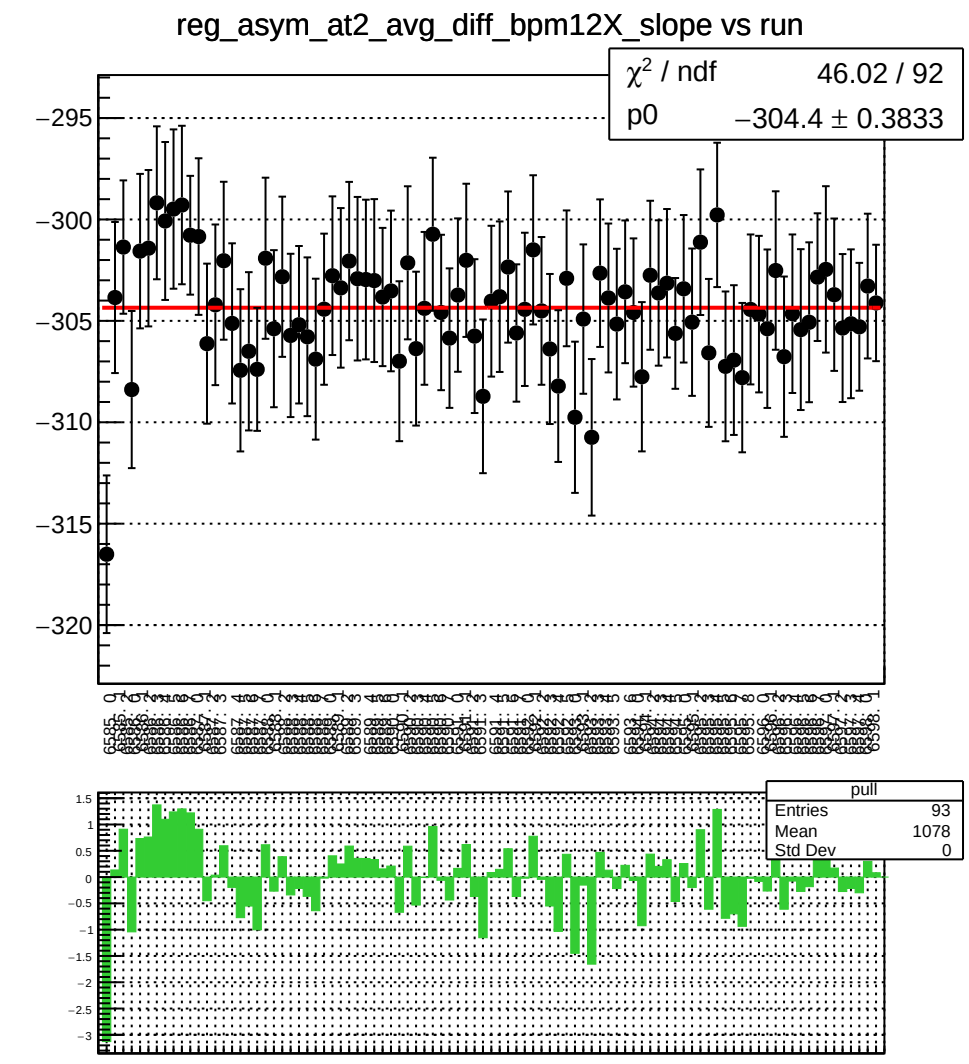

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.16 / 92
p0 56.67 ± 6.643
pull
Entries 93
Mean 28.65
Std Dev 78.22

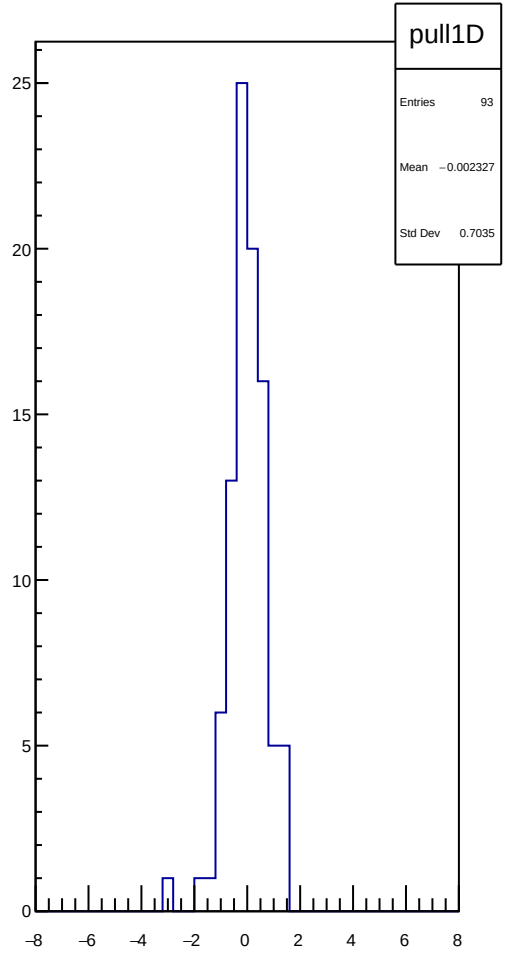

pull1D
Entries 93
Mean 0.02405
Std Dev 0.4649

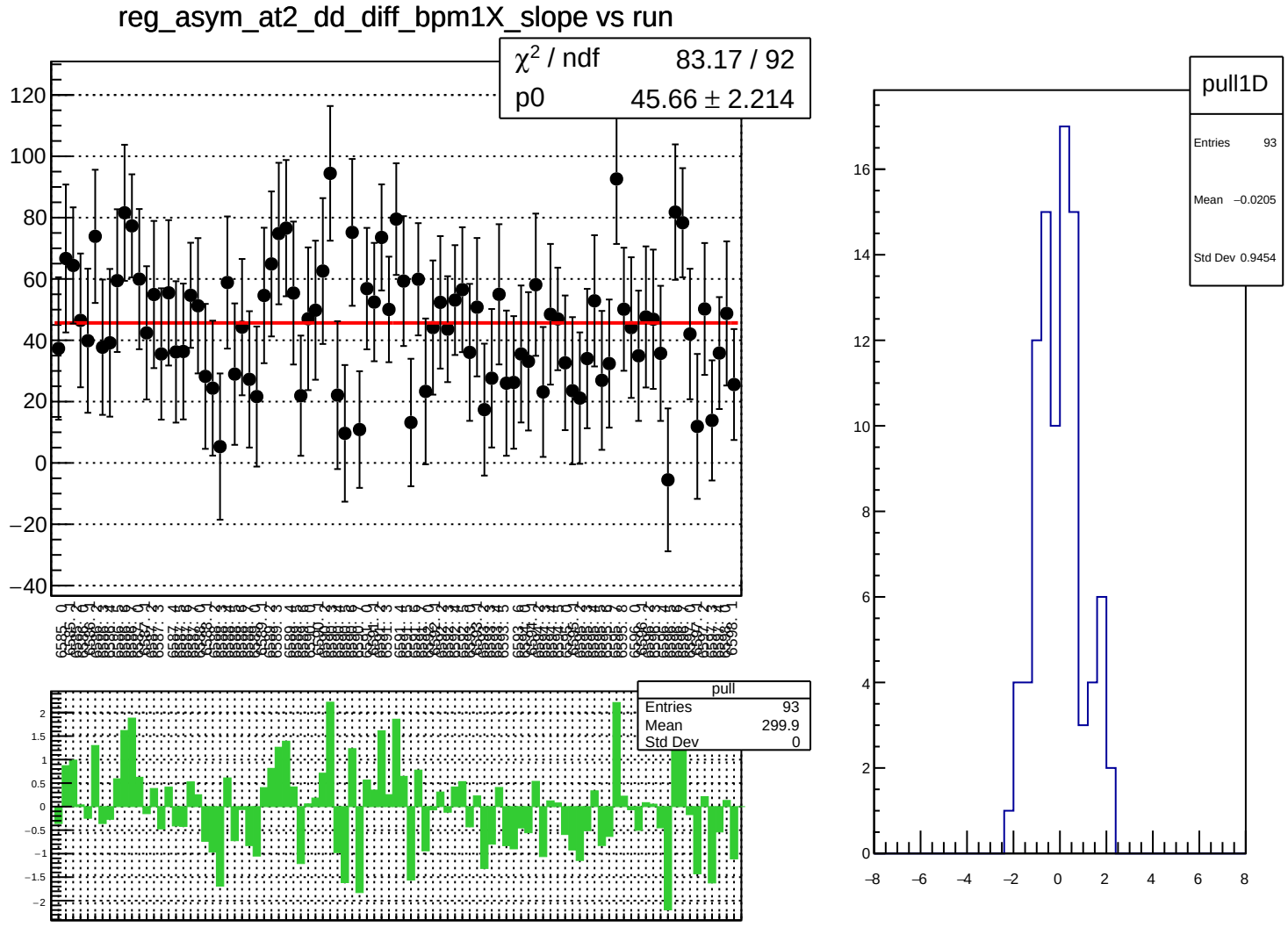

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 59.65 / 92
p0 539.6 ± 9.331
800
700
600
500
400
300
pull
Entries 93
Mean 82.75
Std Dev 51.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 93
Mean 0.0551
Std Dev 0.7989
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

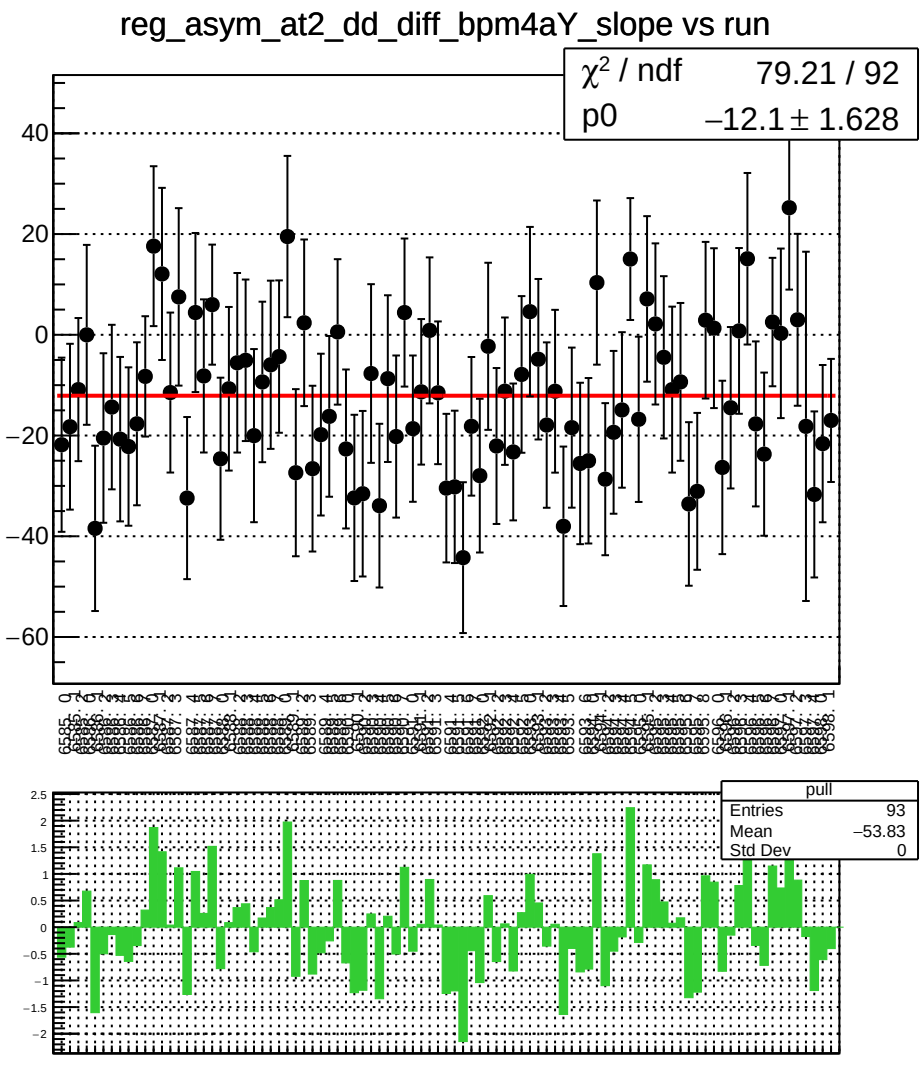

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.61 / 92
p0 108.3 ± 7.911
pull
Entries 93
Mean 13.72
Std Dev 72.9

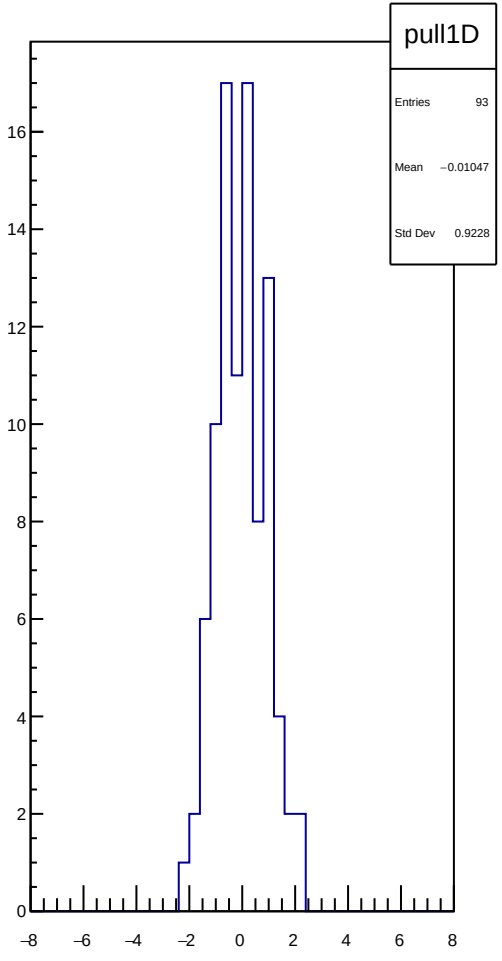

pull1D
Entries 93
Mean −0.02534
Std Dev 0.4925

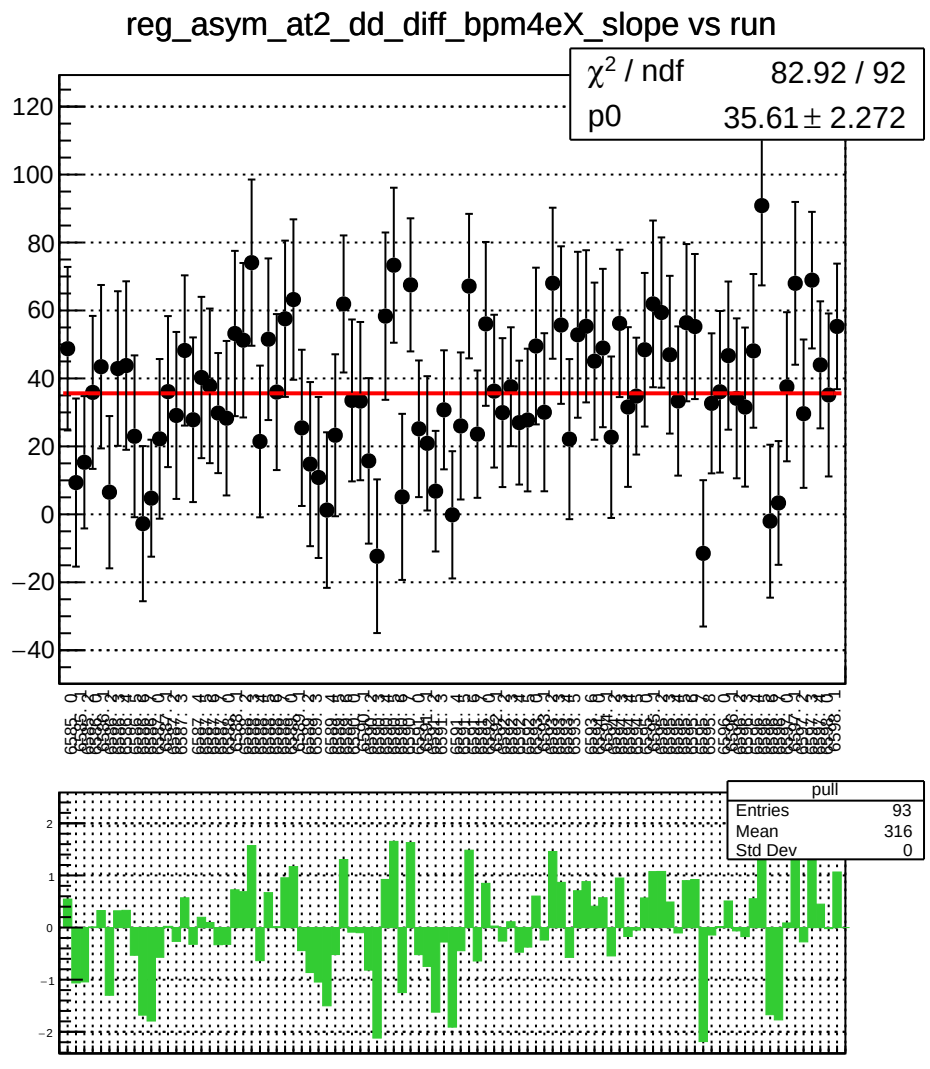

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 46.02 / 92
p0 −304.4 ± 0.3833
−295
−300
−305
−310
−315
−320
pull
Entries 93
Mean 1078
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

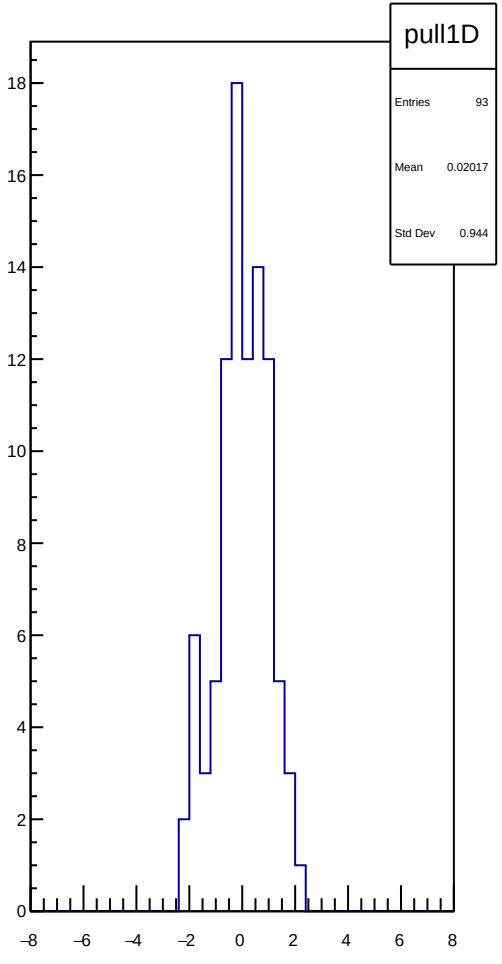

pull1D
Entries 93
Mean −0.002327
Std Dev 0.7035
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

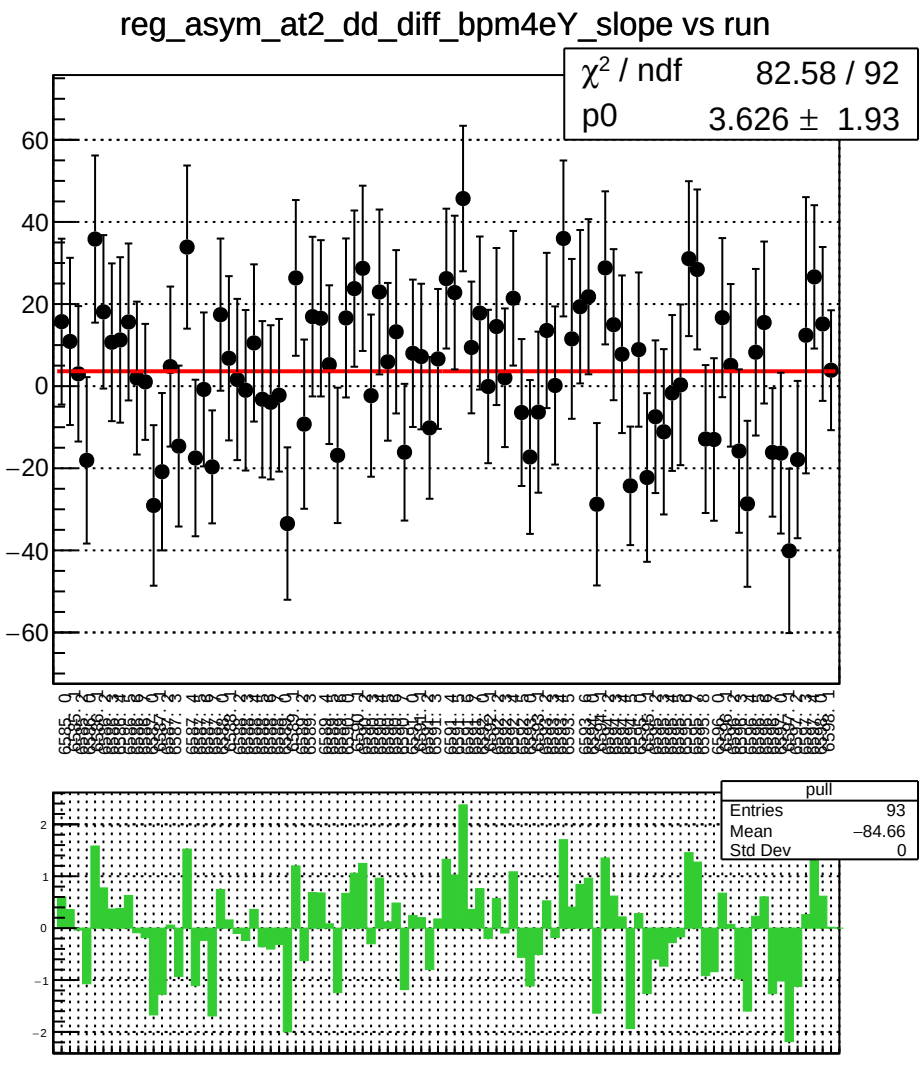

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 83.17 / 92
p0 45.66 ± 2.214
pull
Entries 93
Mean 299.9
Std Dev 0
pull1D
Entries 93
Mean −0.0205
Std Dev 0.9454

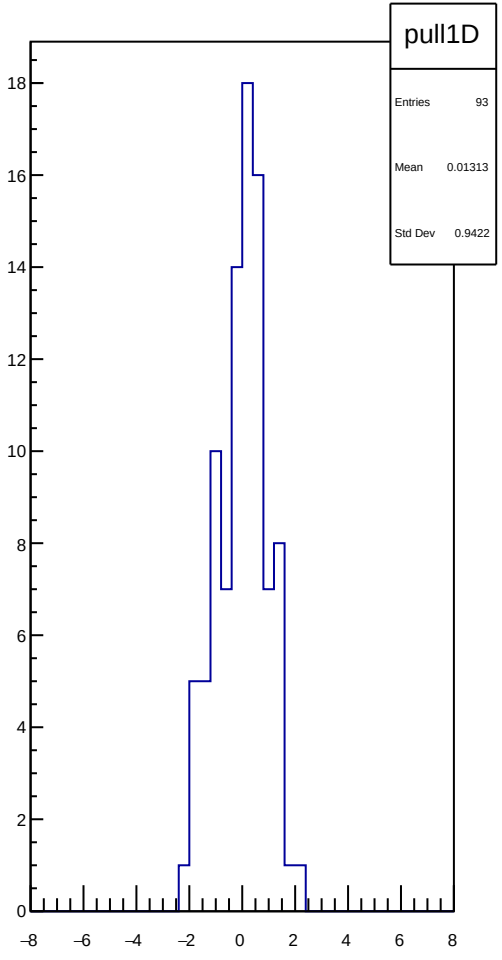

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.21 / 92
p0 −12.1 ± 1.628
pull
Entries 93
Mean −53.83
Std Dev 0

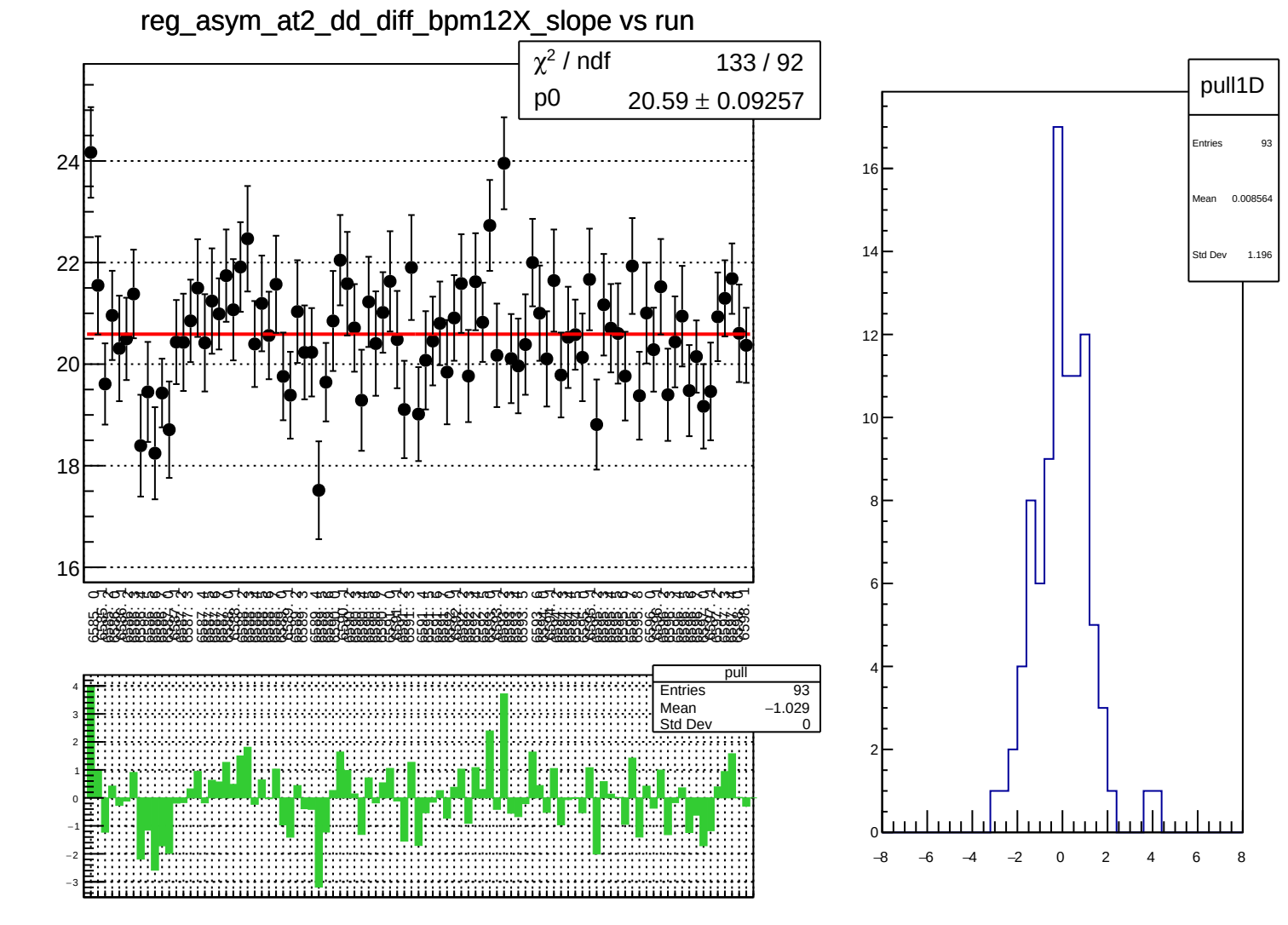

pull1D
Entries 93
Mean −0.01047
Std Dev 0.9228

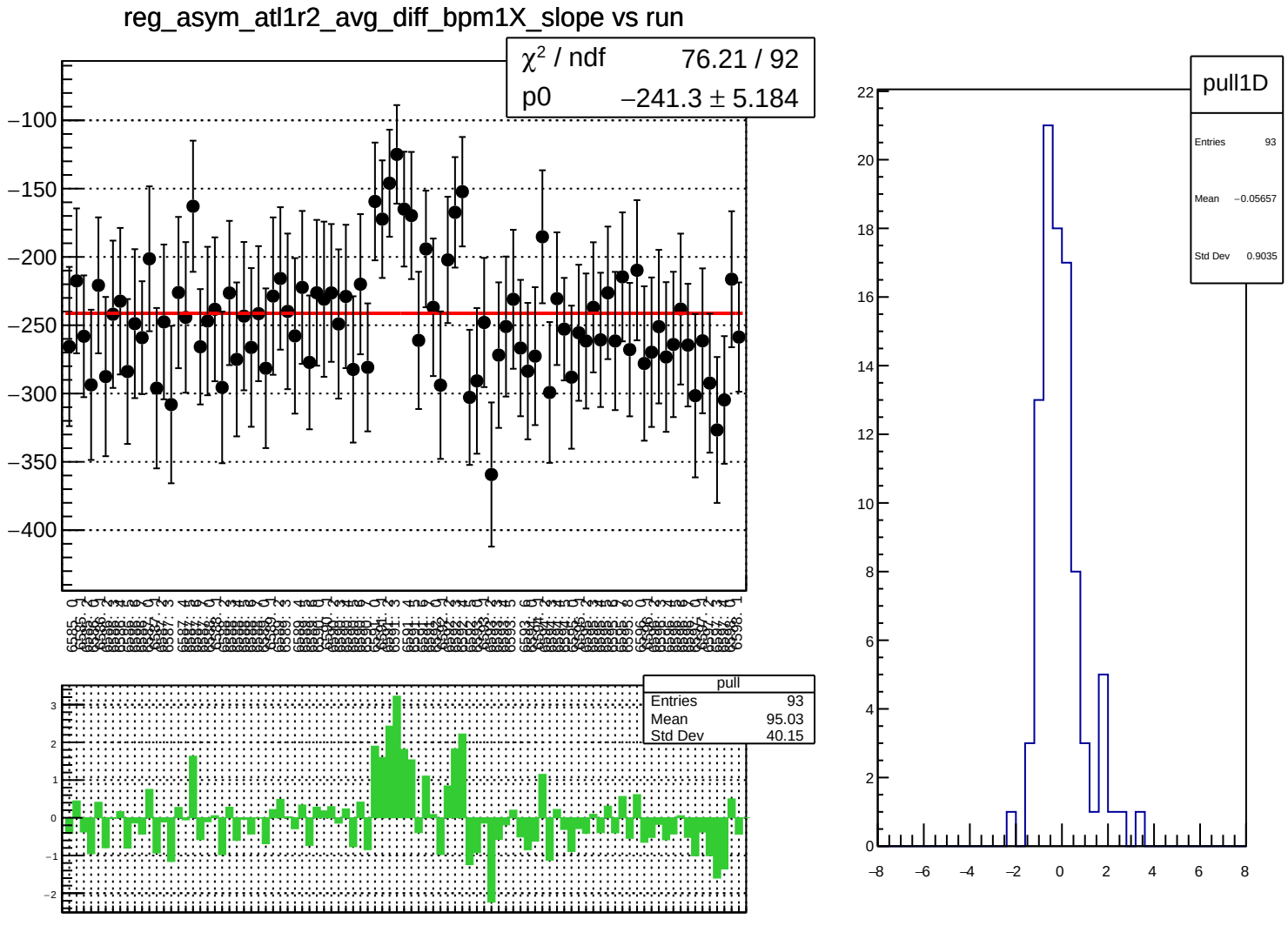

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.92 / 92
p0 35.61 ± 2.272
pull
Entries 93
Mean 316
Std Dev 0

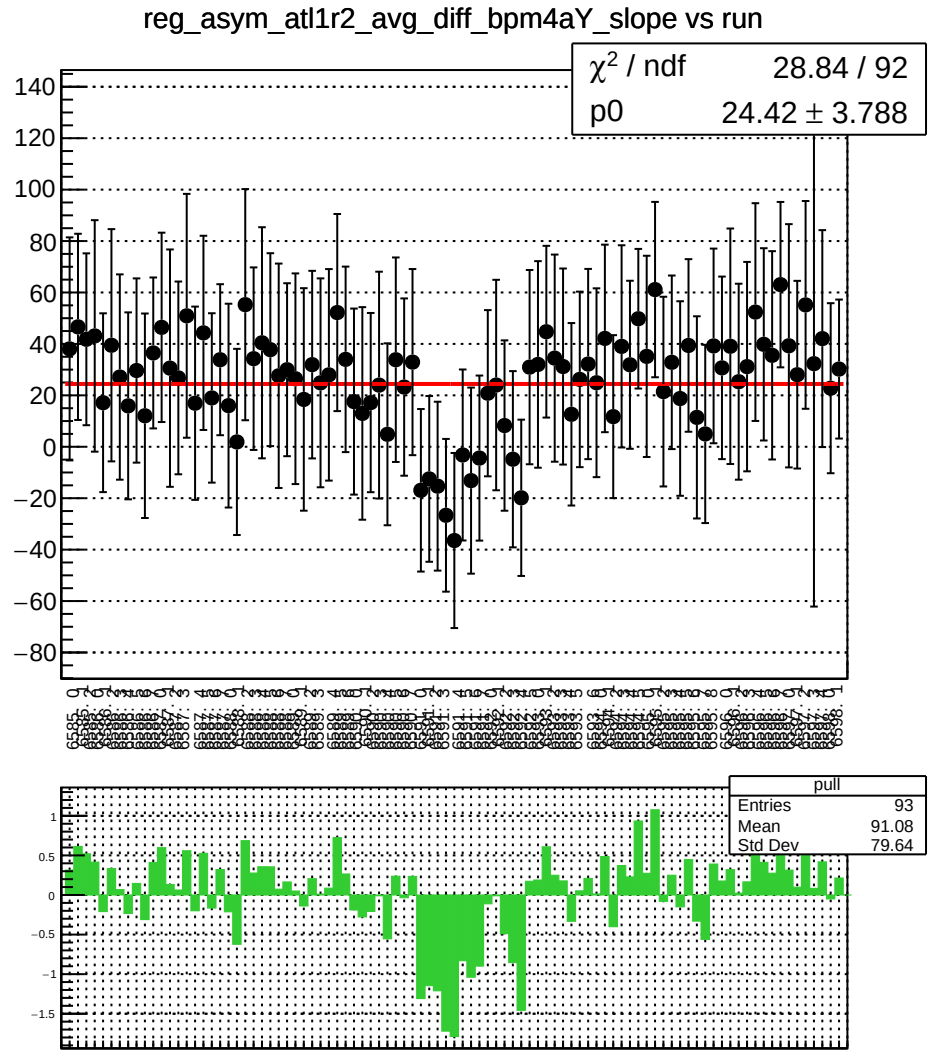

pull1D
Entries 93
Mean 0.02017
Std Dev 0.944

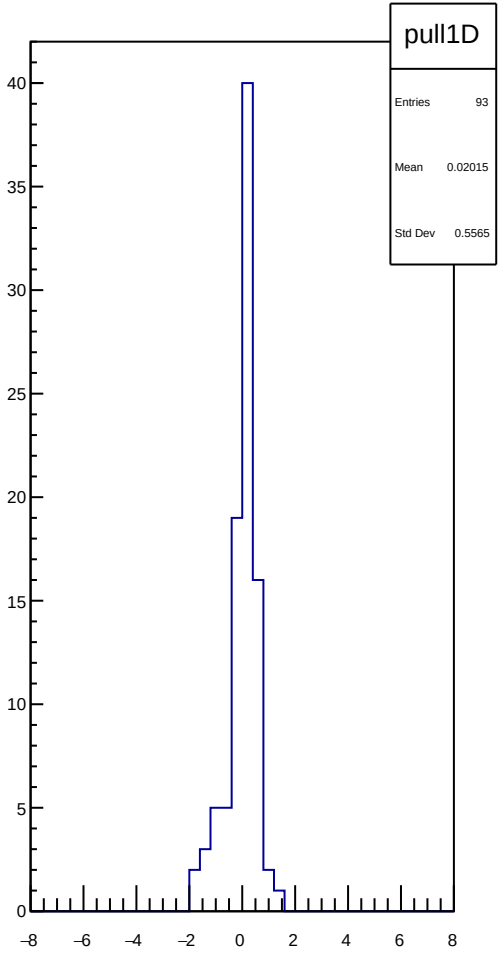

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.58 / 92
p0 3.626 ± 1.93
pull
Entries 93
Mean −84.66
Std Dev 0

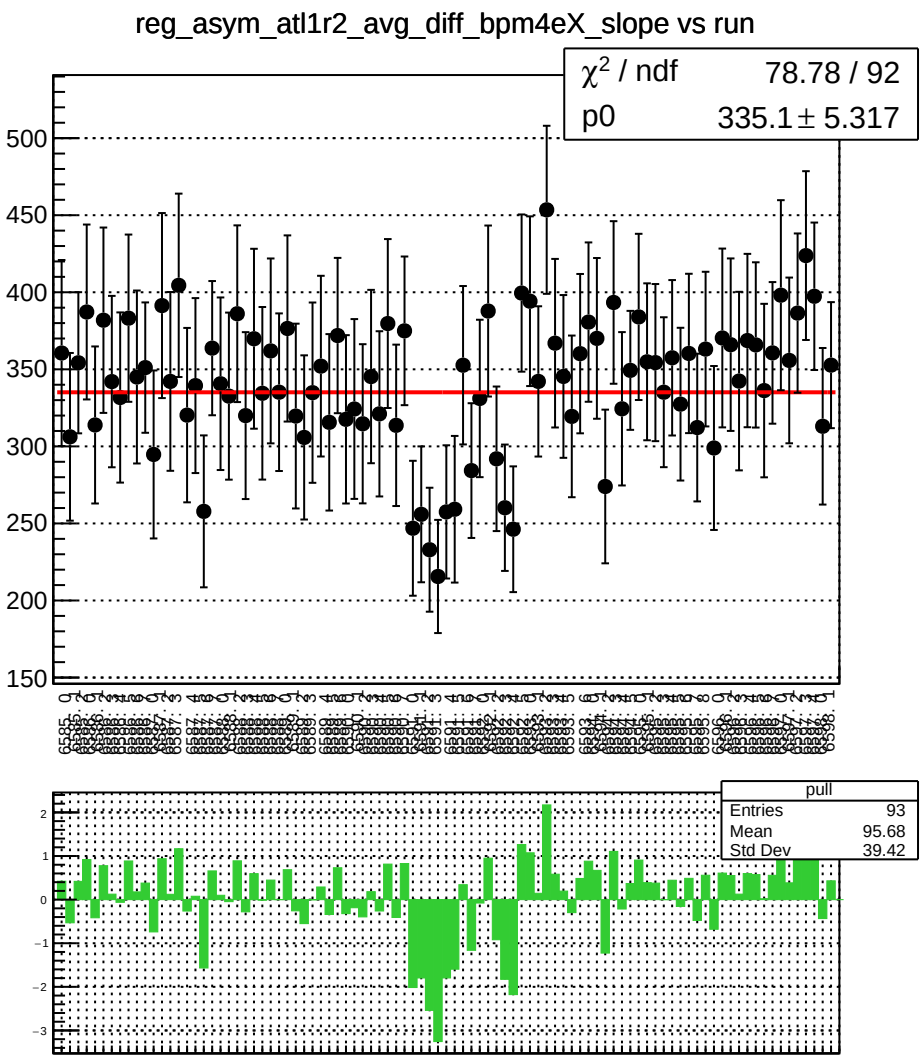

pull1D
Entries 93
Mean 0.01313
Std Dev 0.9422

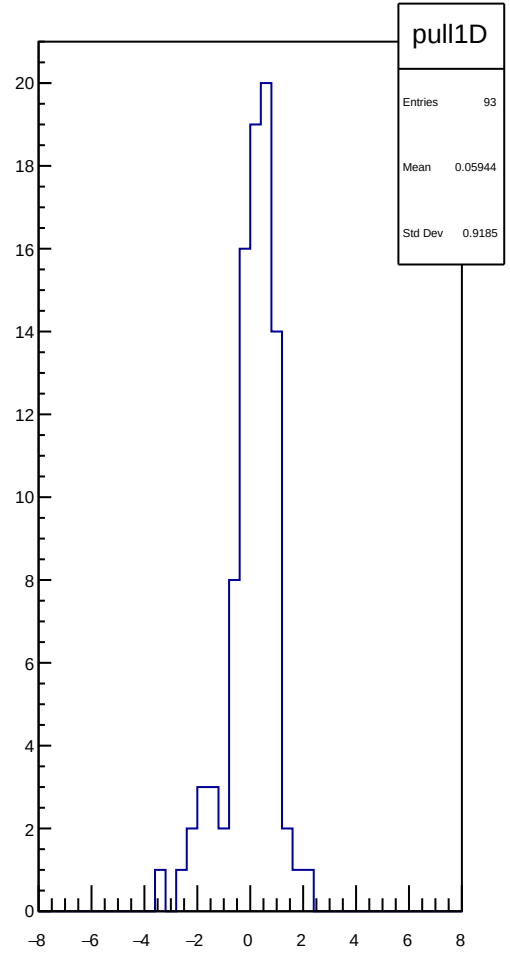

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 133 / 92
p0 20.59 ± 0.09257
pull
Entries 93
Mean −1.029
Std Dev 0
pull1D
Entries 93
Mean 0.008564
Std Dev 1.196

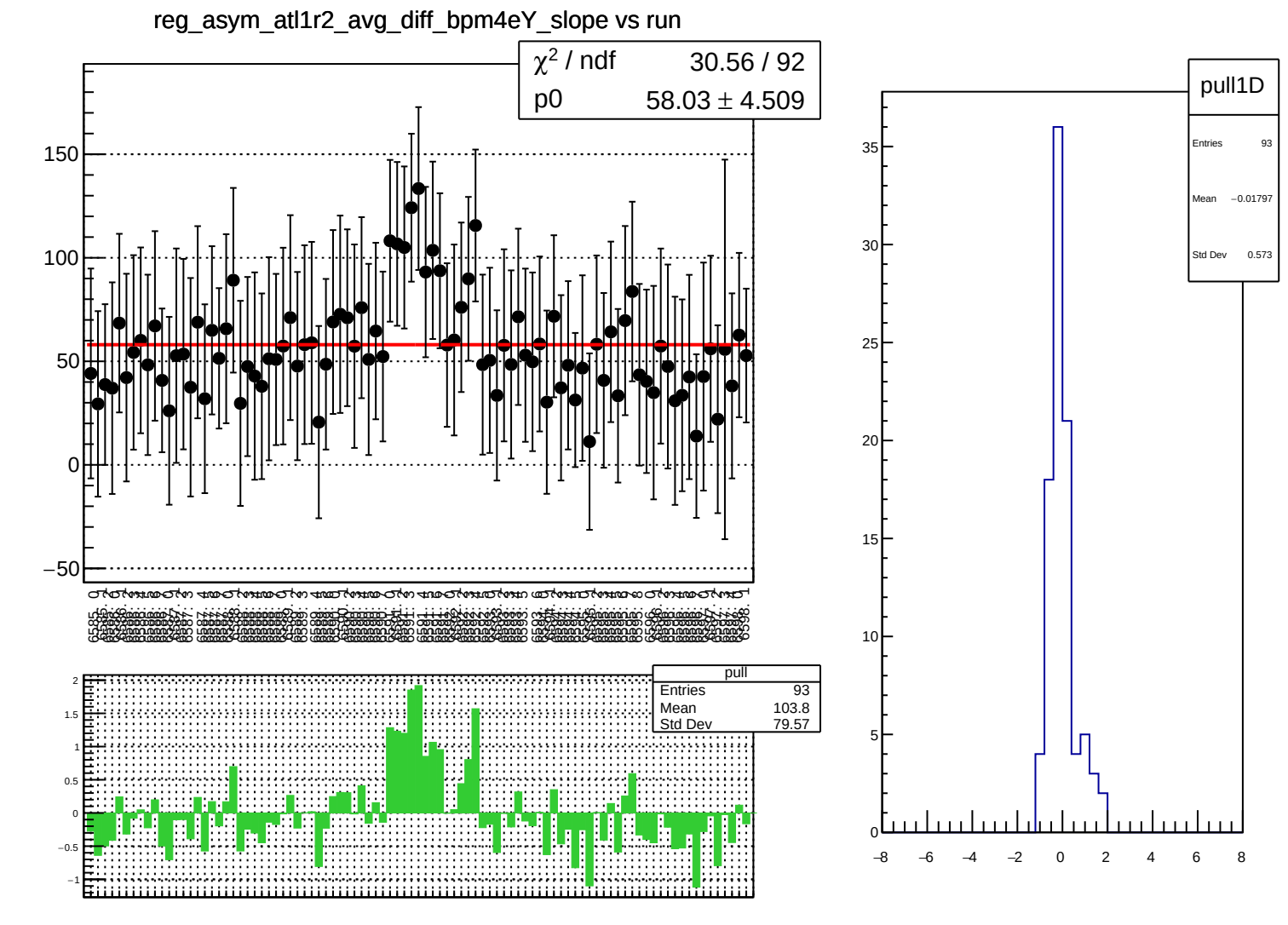

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 76.21 / 92
p0 −241.3 ± 5.184
−100
−150
−200
−250
−300
−350
−400
pull
Entries 93
Mean 95.03
Std Dev 40.15
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05657
Std Dev 0.9035
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

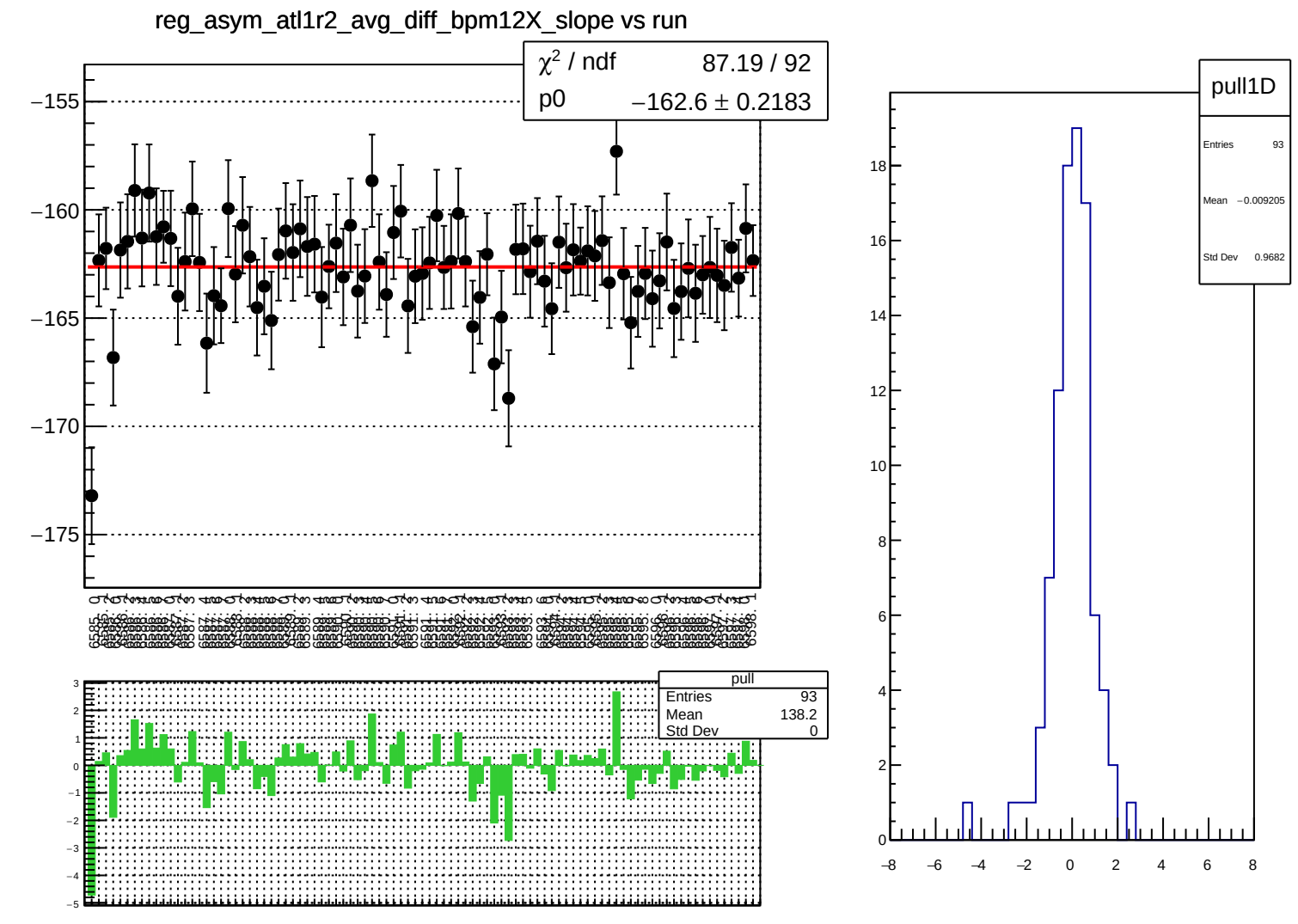

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.84 / 92
p0 24.42 ± 3.788
pull
Entries 93
Mean 91.08
Std Dev 79.64

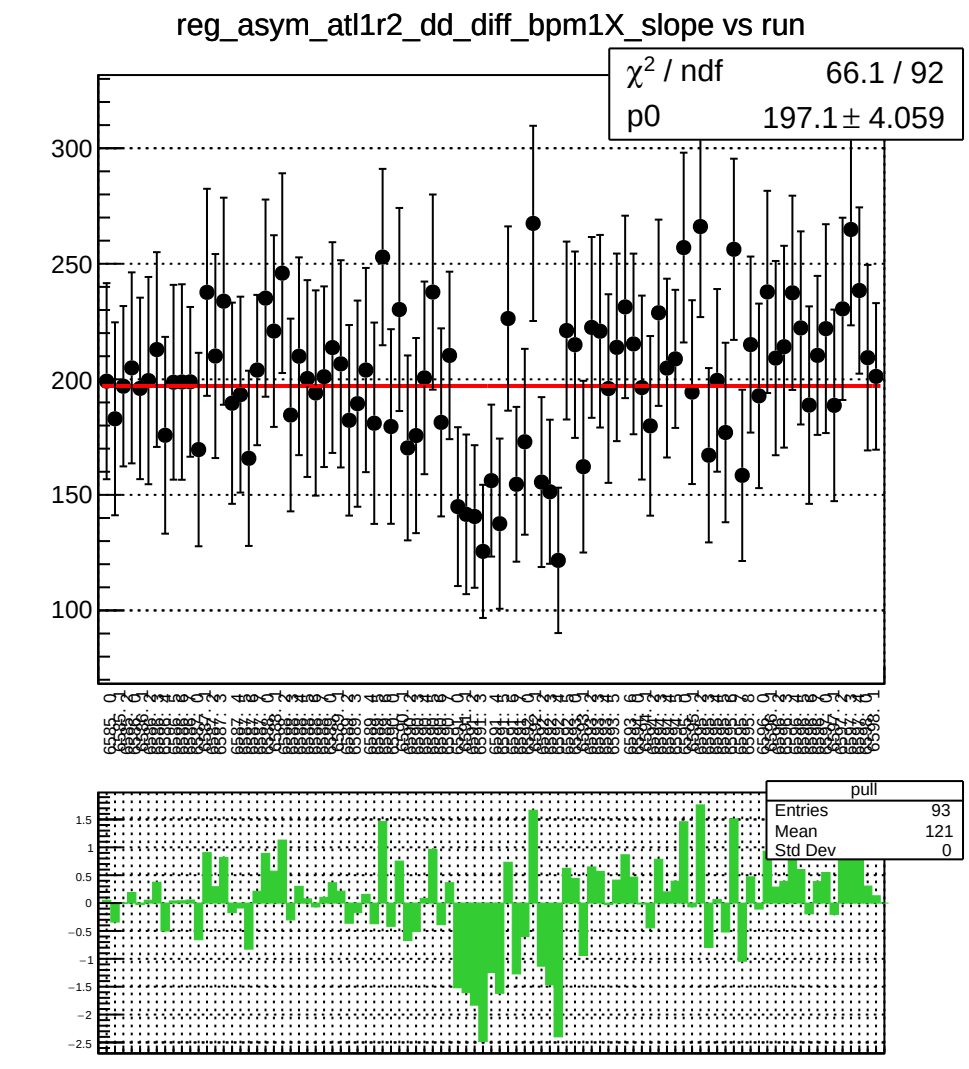

pull1D
Entries 93
Mean 0.02015
Std Dev 0.5565

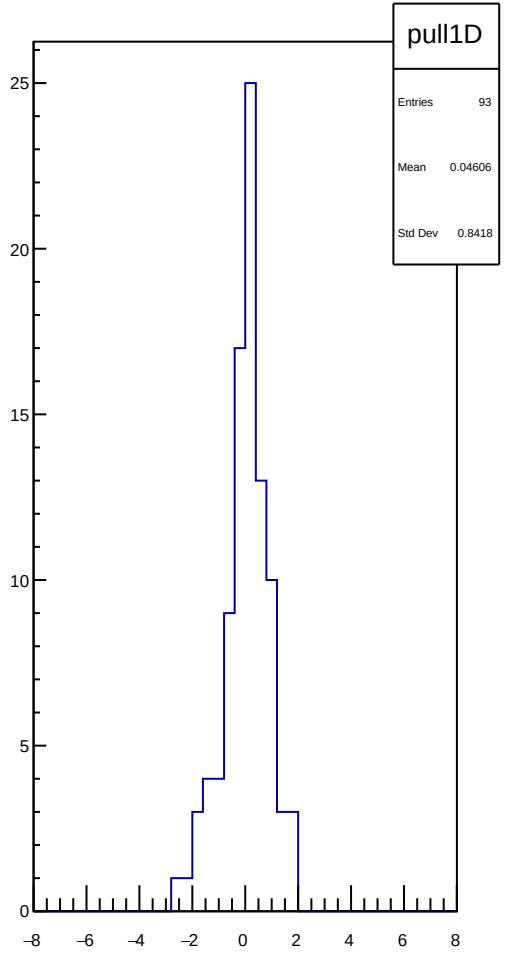

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.78 / 92
p0 335.1 ± 5.317
pull
Entries 93
Mean 95.68
Std Dev 39.42

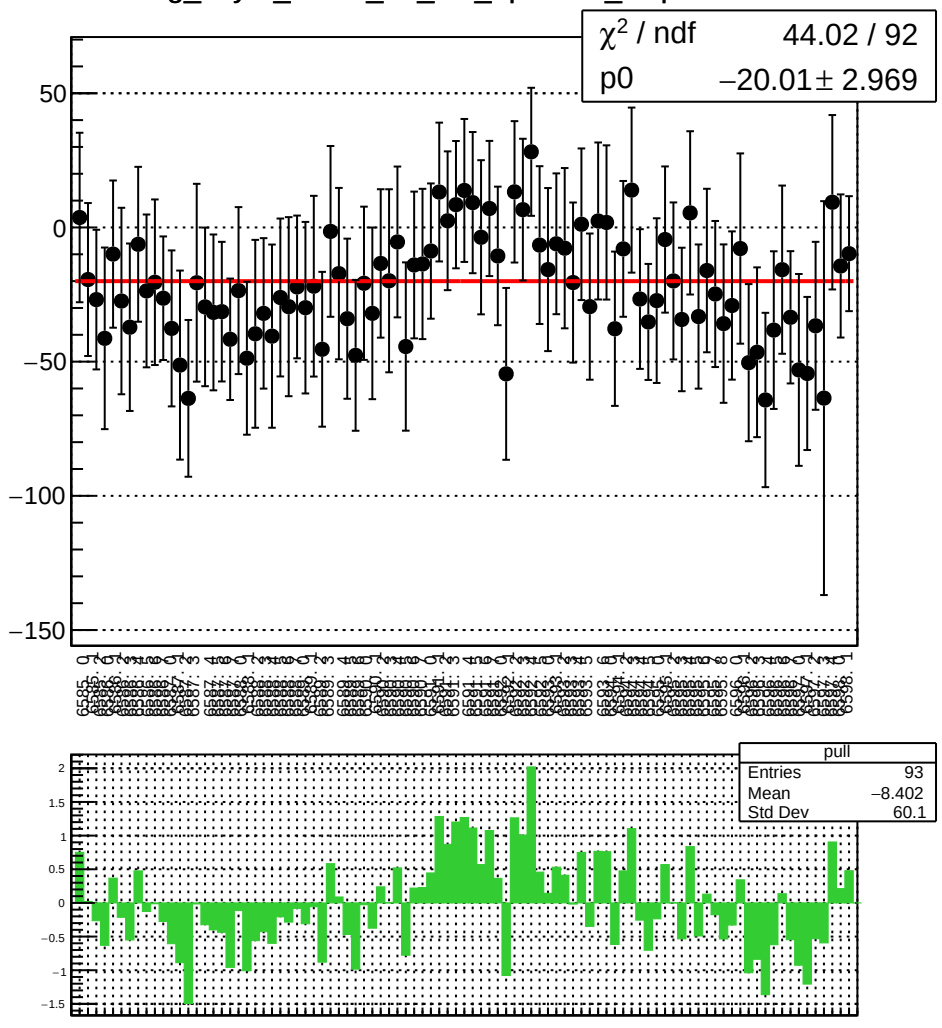

pull1D
Entries 93
Mean 0.05944
Std Dev 0.9185

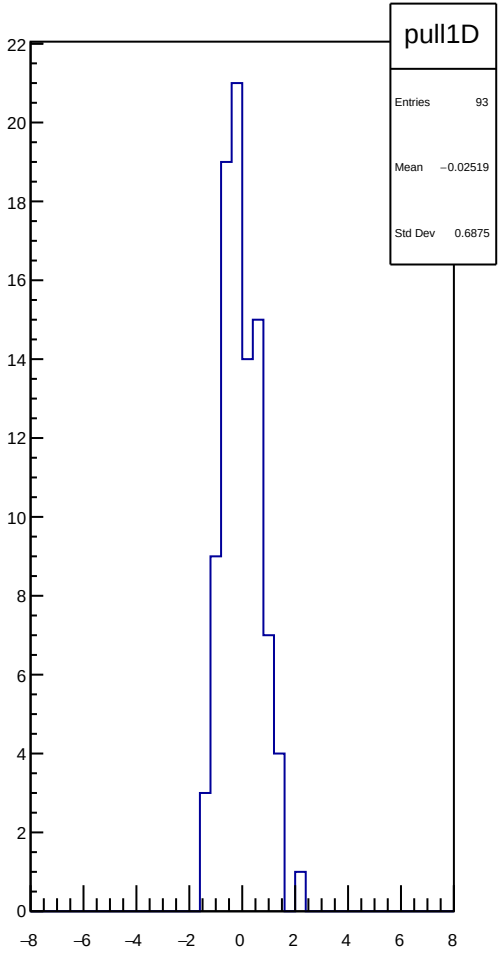

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.56 / 92
p0 58.03 ± 4.509
150
100
50
0
−50
pull
Entries 93
Mean 103.8
Std Dev 79.57
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.01797
Std Dev 0.573
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

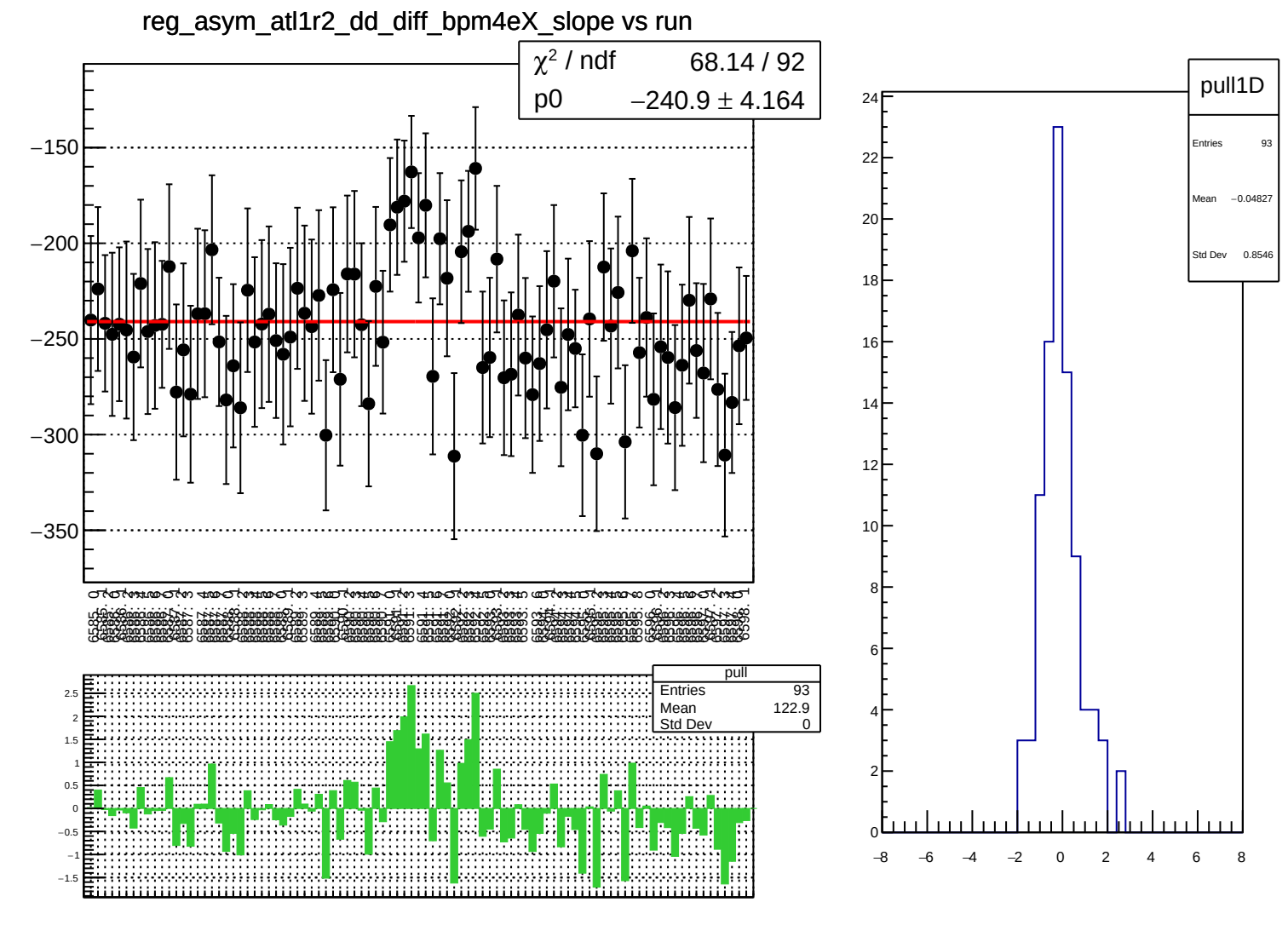

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 87.19 / 92
p0 −162.6 ± 0.2183
−155
−160
−165
−170
−175
pull
Entries 93
Mean 138.2
Std Dev 0
pull1D
Entries 93
Mean −0.009205
Std Dev 0.9682

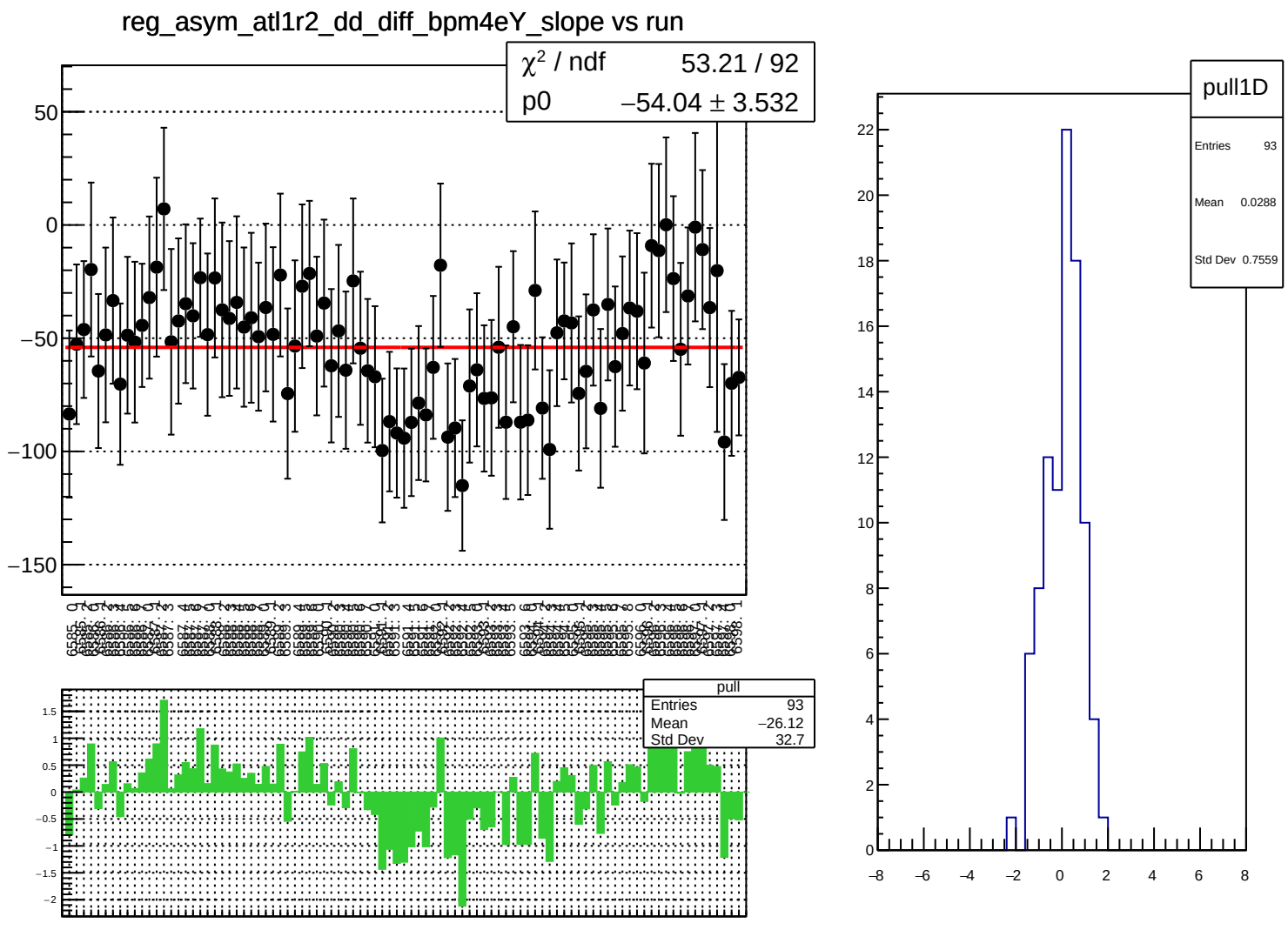

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 66.1 / 92
p0 197.1 ± 4.059
300
250
200
150
100
pull
Entries 93
Mean 121
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

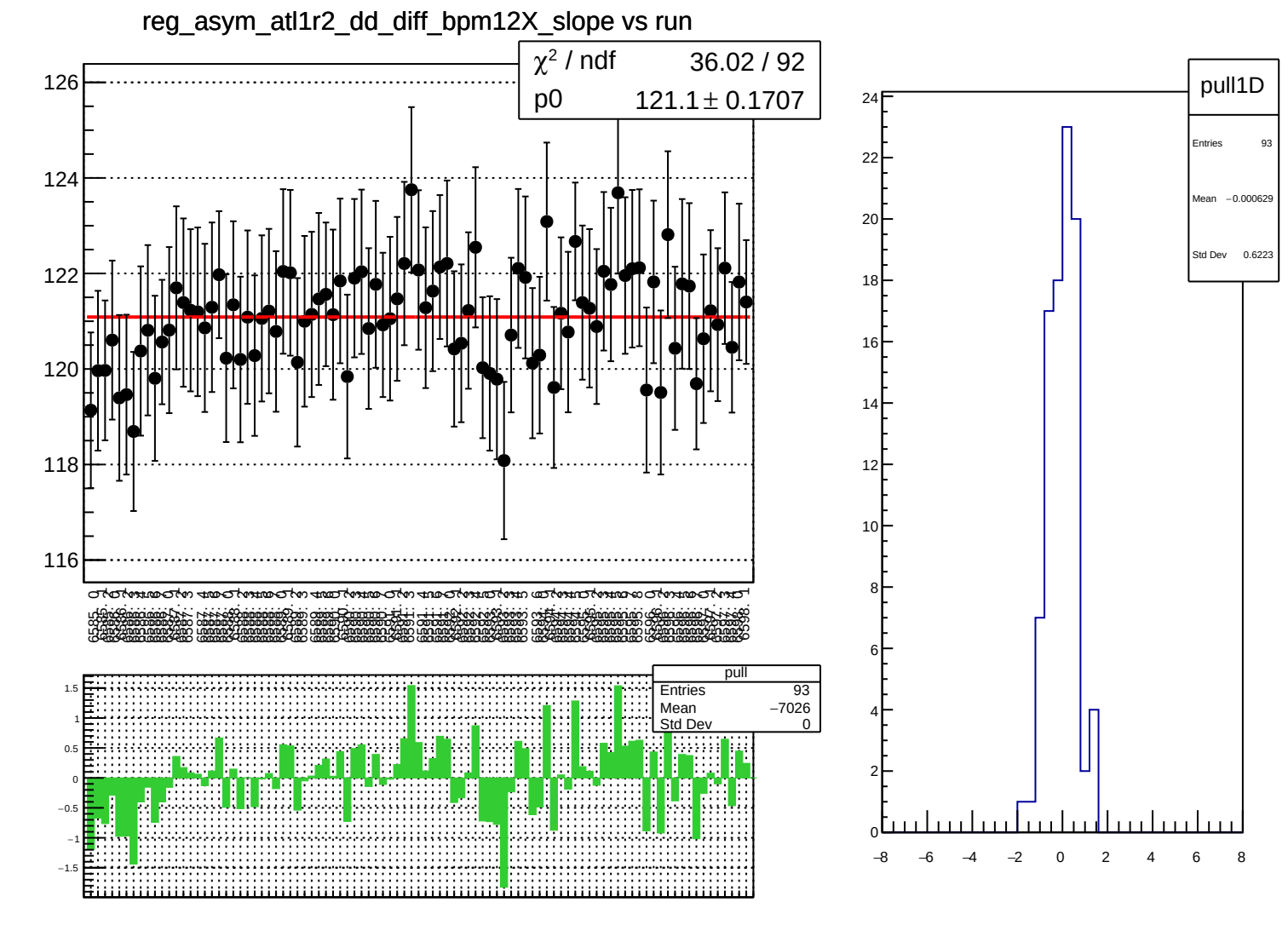

pull1D
Entries 93
Mean 0.04606
Std Dev 0.8418
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

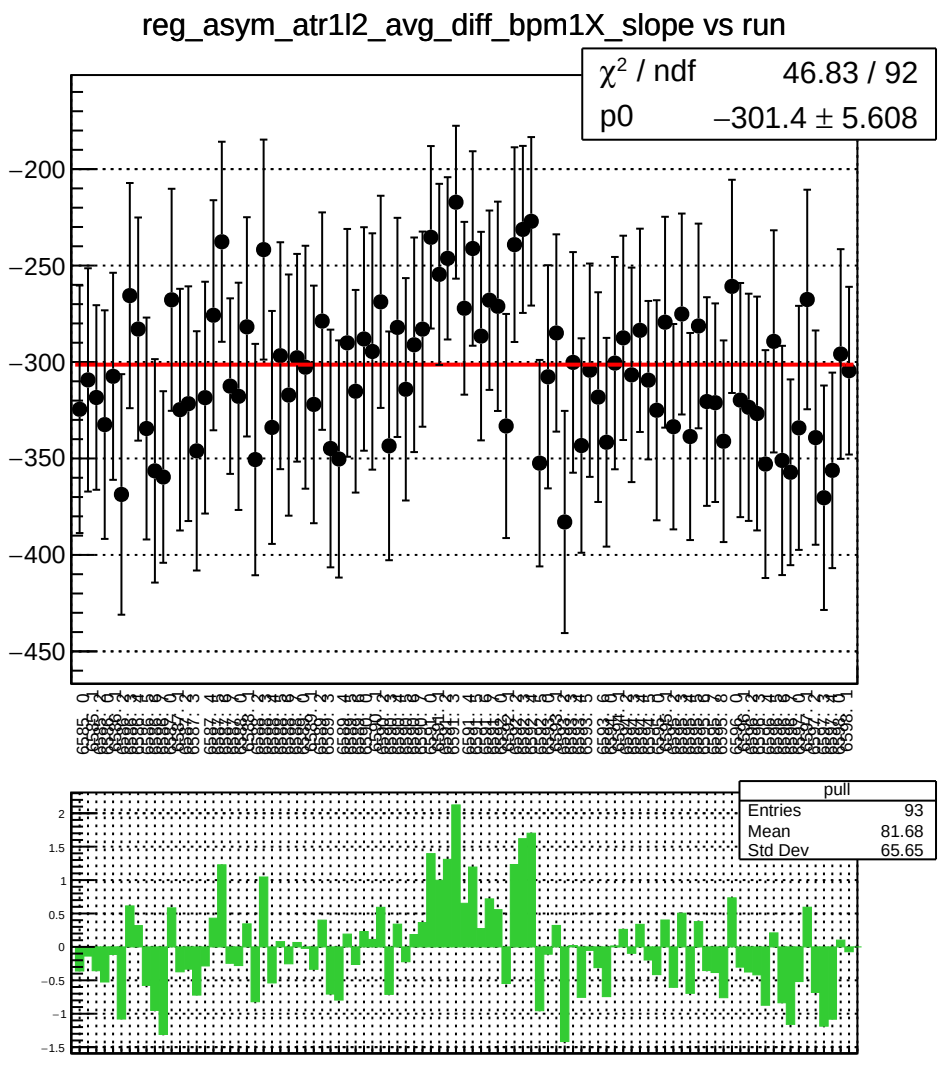

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.02 / 92
p0 −20.01± 2.969
50
0
−50
−100
−150
pull
Entries 93
Mean −8.402
Std Dev 60.1
2
1.5
1
0.5
0
−0.5
−1
−1.5

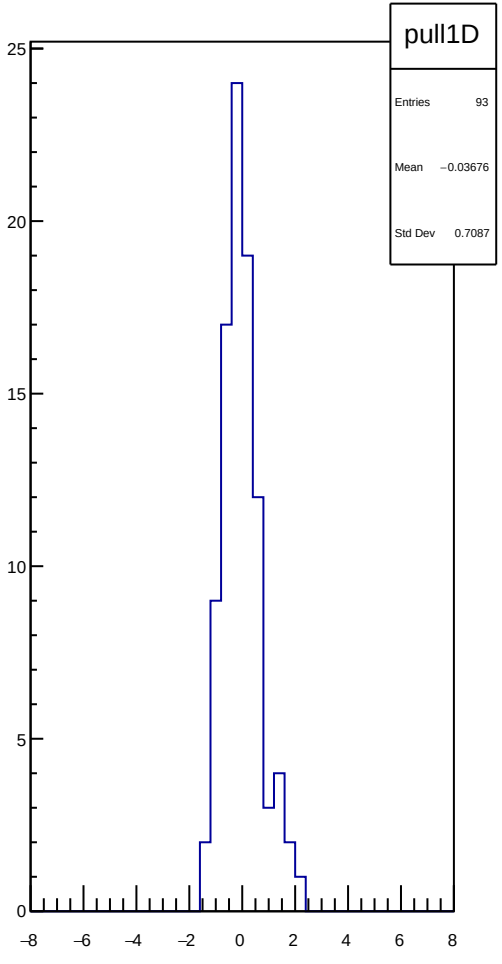

pull1D
Entries 93
Mean −0.02519
Std Dev 0.6875
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

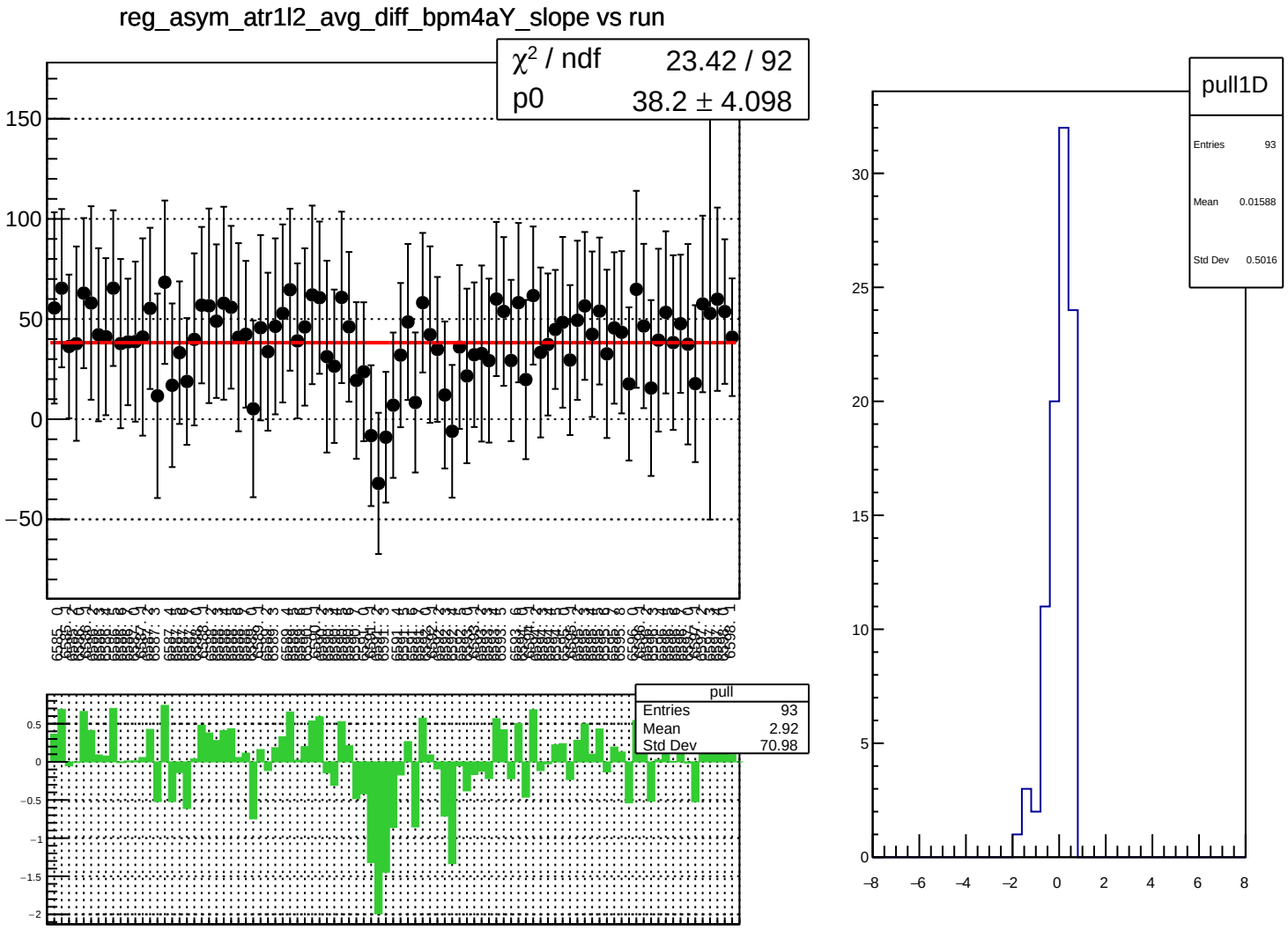

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.14 / 92
p0 −240.9 ± 4.164
−150
−200
−250
−300
−350
pull
Entries 93
Mean 122.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.04827
Std Dev 0.8546
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

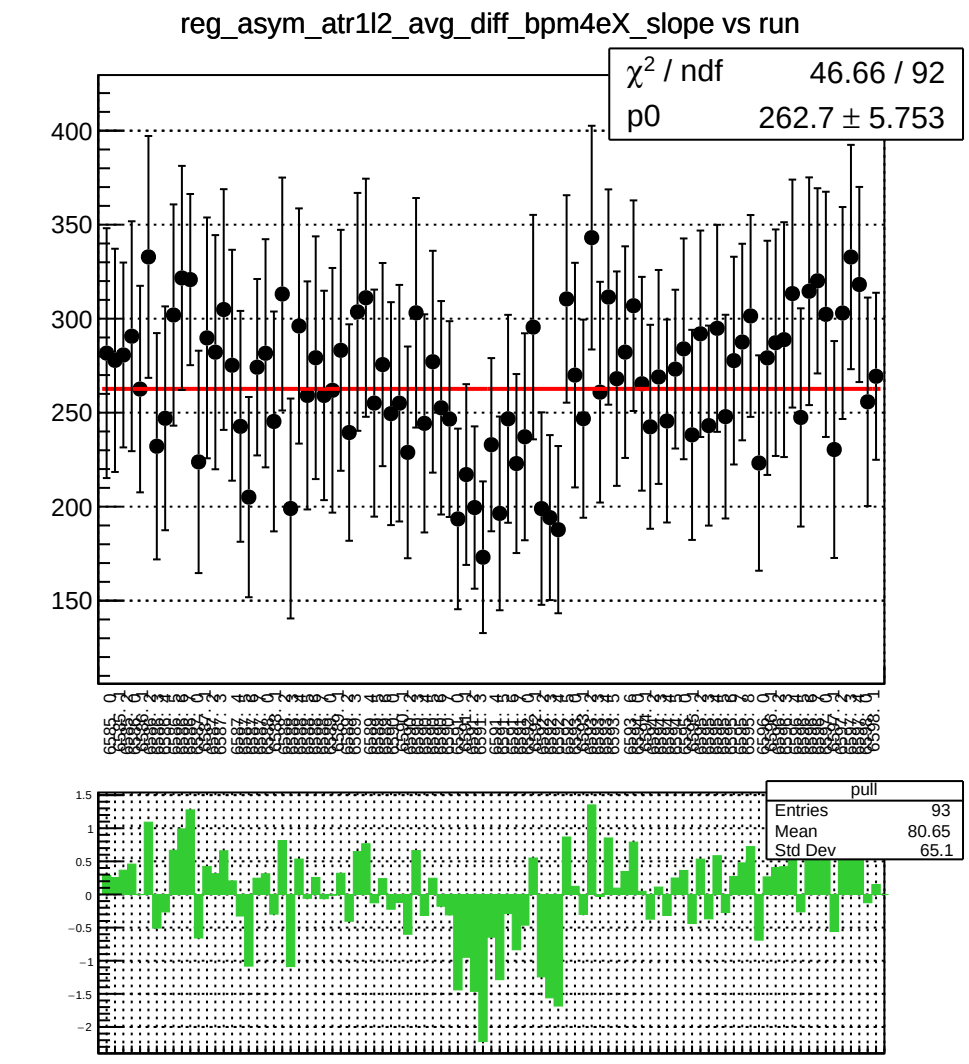

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.21 / 92
p0 −54.04 ± 3.532
50
0
−50
−100
−150
pull
Entries 93
Mean −26.12
Std Dev 32.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.0288
Std Dev 0.7559
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

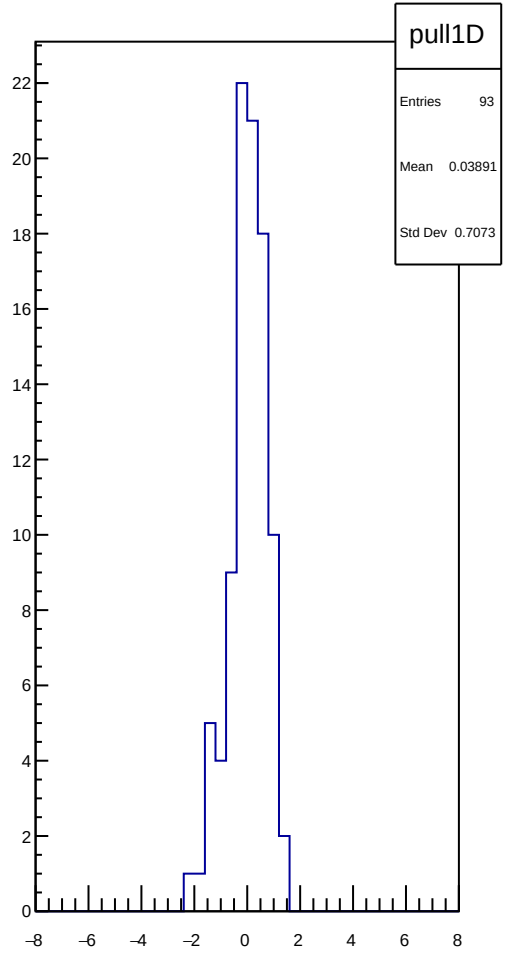

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 36.02 / 92
p0 121.1 ± 0.1707
126
124
122
120
118
116
pull
Entries 93
Mean −7026
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.000629
Std Dev 0.6223
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

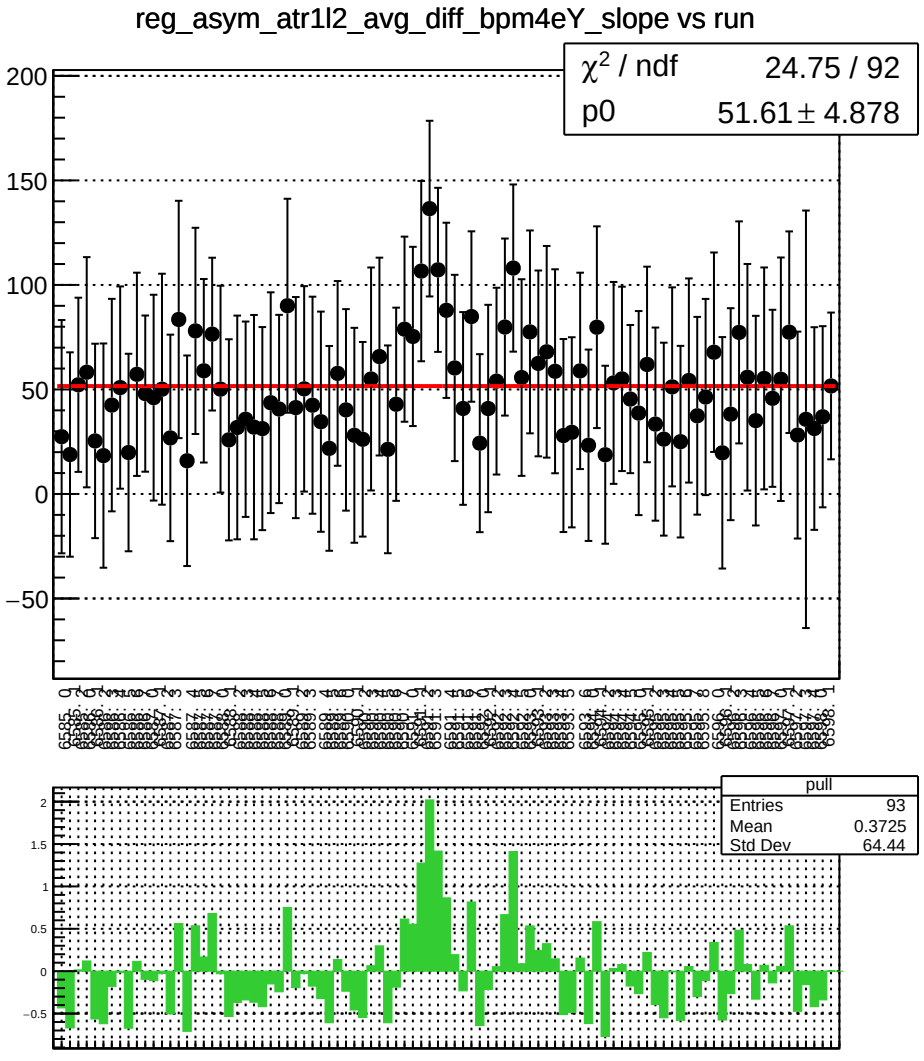

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 46.83 / 92
p0 −301.4 ± 5.608
pull
Entries 93
Mean 81.68
Std Dev 65.65

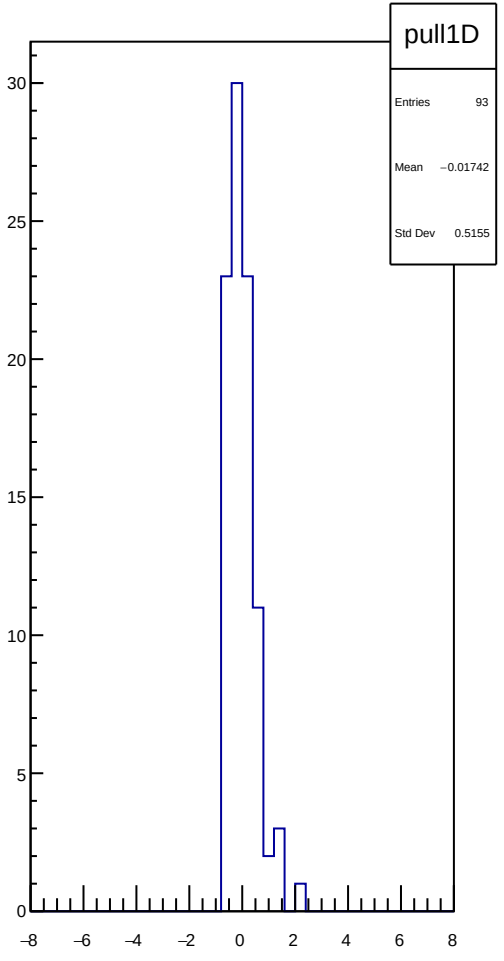

pull1D
Entries 93
Mean −0.03676
Std Dev 0.7087

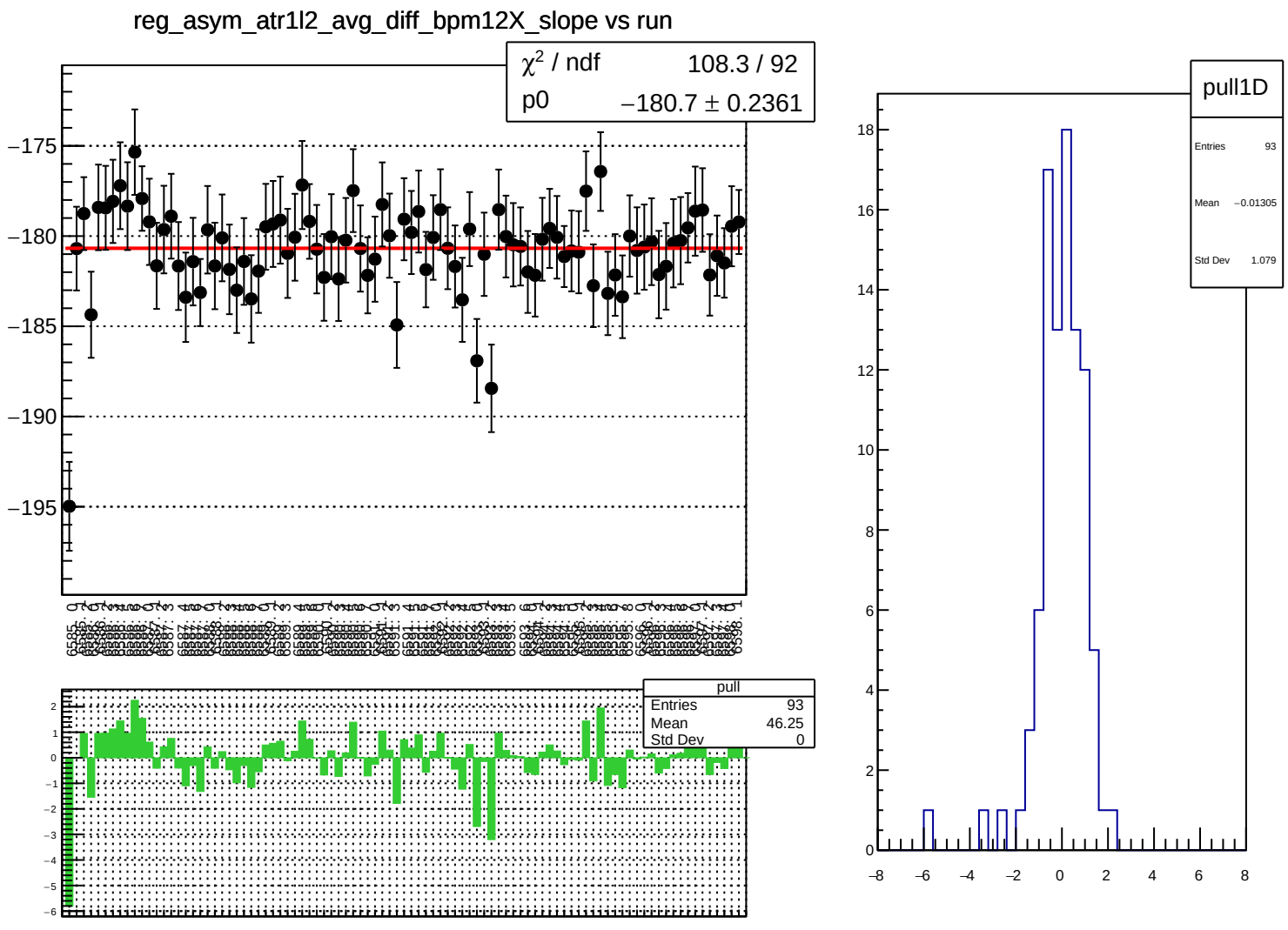

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.42 / 92
p0 38.2 ± 4.098
150
100
50
0
−50
pull
Entries 93
Mean 2.92
Std Dev 70.98
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.01588
Std Dev 0.5016
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

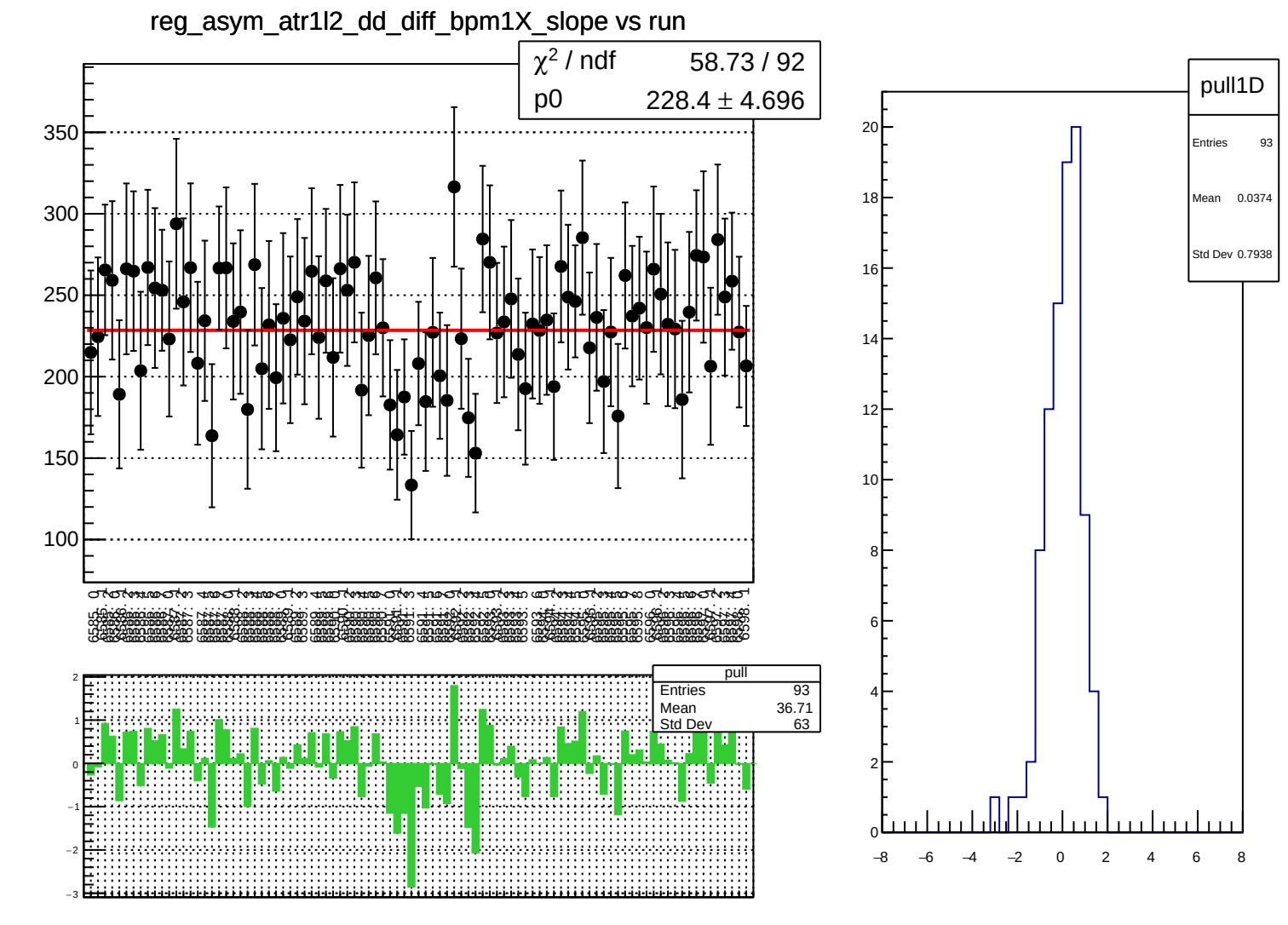

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.66 / 92
p0 262.7 ± 5.753
400
350
300
250
200
150
pull
Entries 93
Mean 80.65
Std Dev 65.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

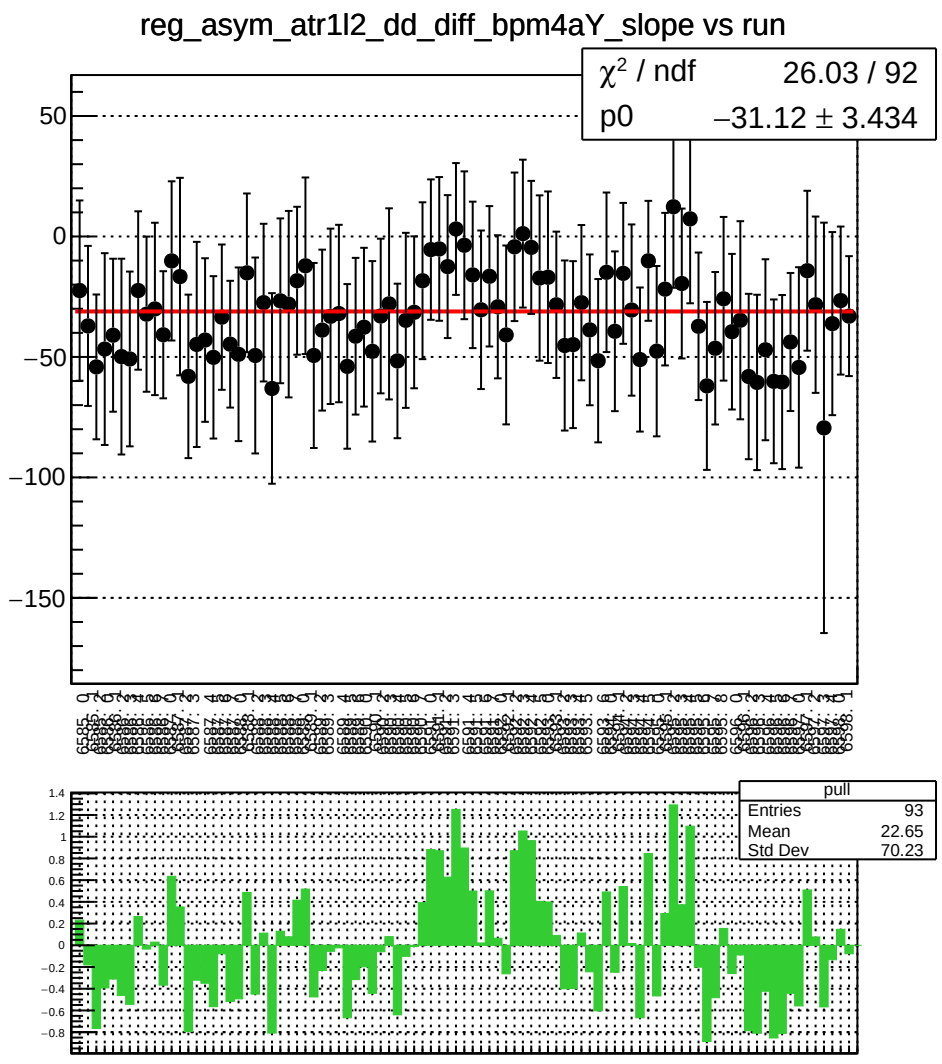

pull1D
Entries 93
Mean 0.03891
Std Dev 0.7073
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

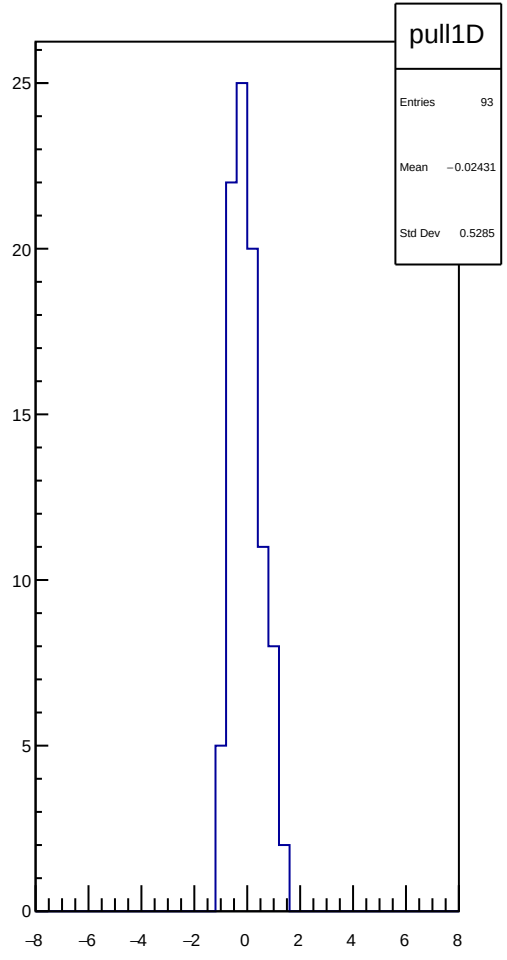

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.75 / 92
p0 51.61 ± 4.878
pull
Entries 93
Mean 0.3725
Std Dev 64.44

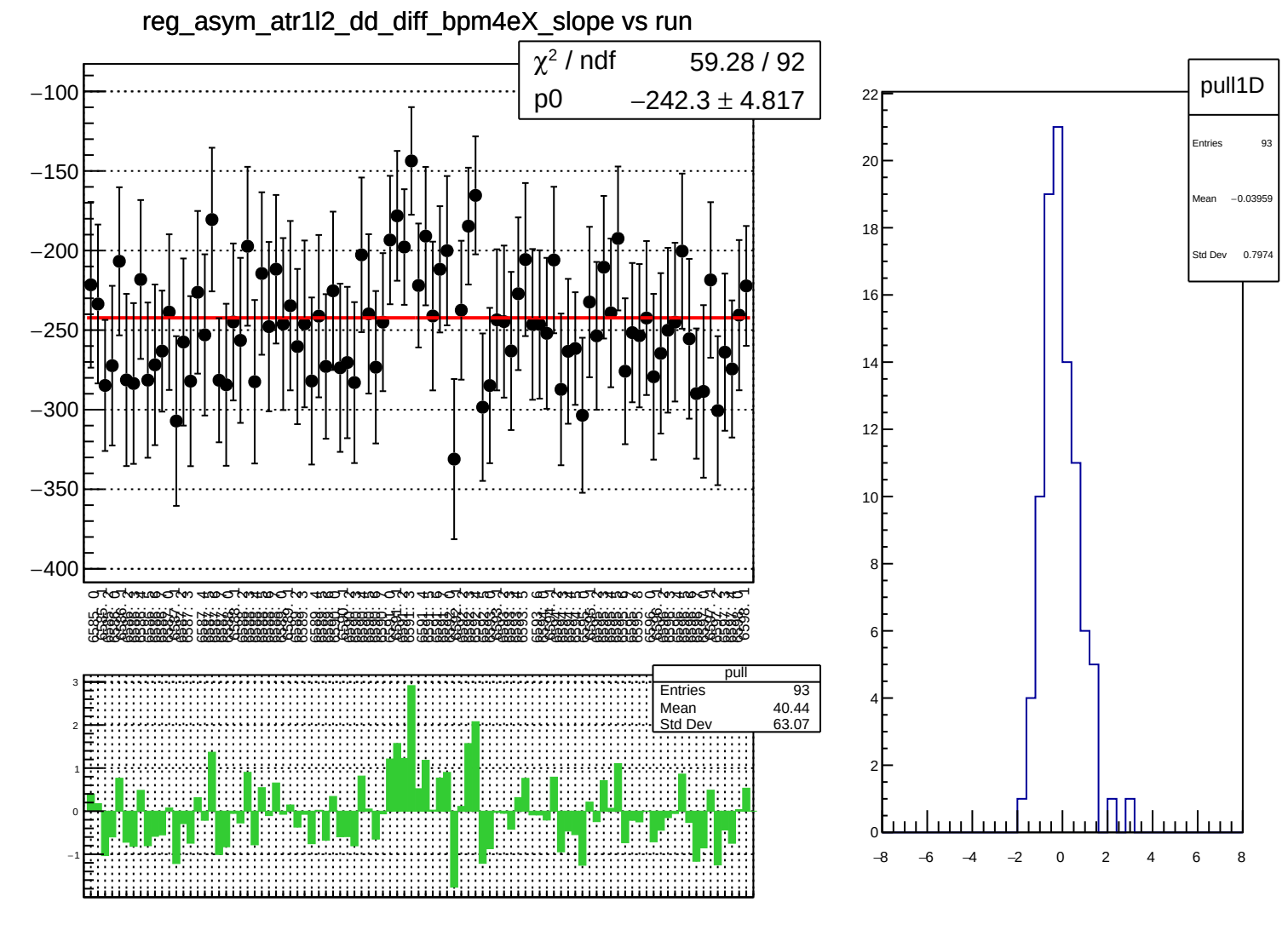

pull1D
Entries 93
Mean −0.01742
Std Dev 0.5155

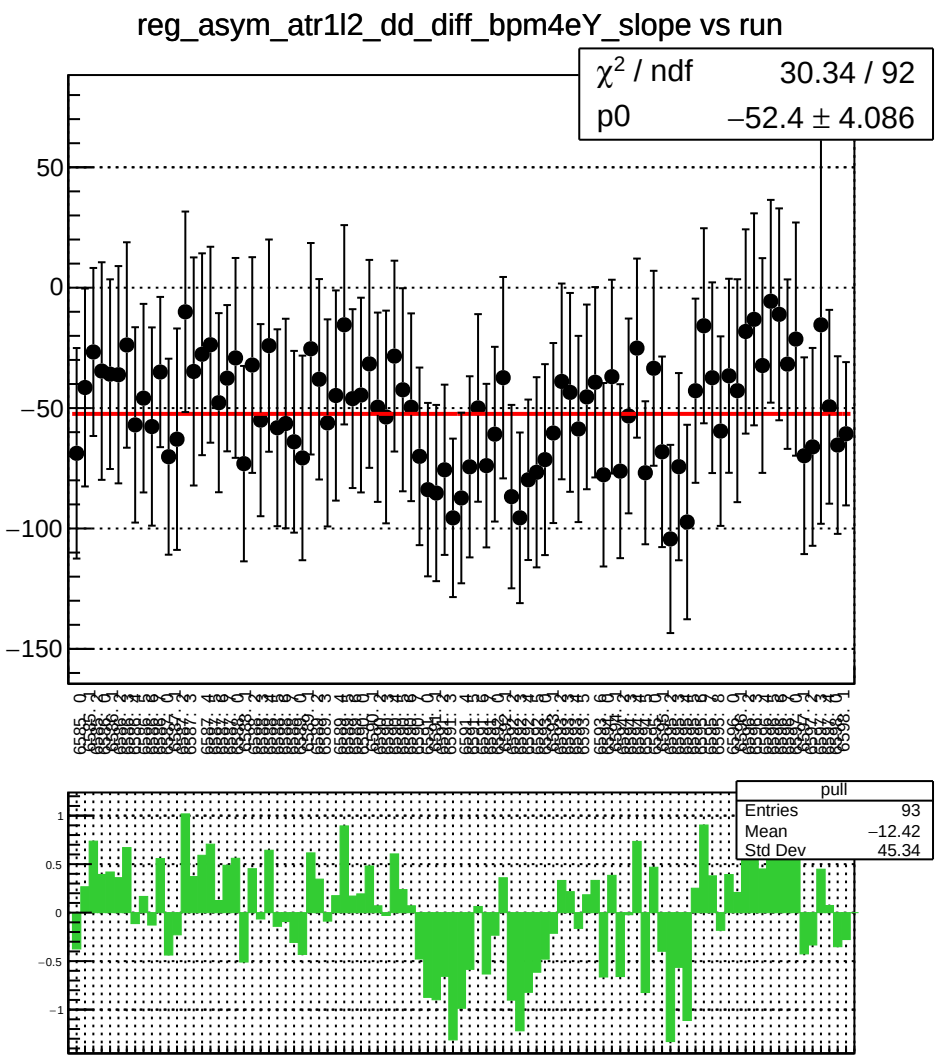

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 108.3 / 92
p0 −180.7 ± 0.2361
−175
−180
−185
−190
−195
pull
Entries 93
Mean 46.25
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 93
Mean −0.01305
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

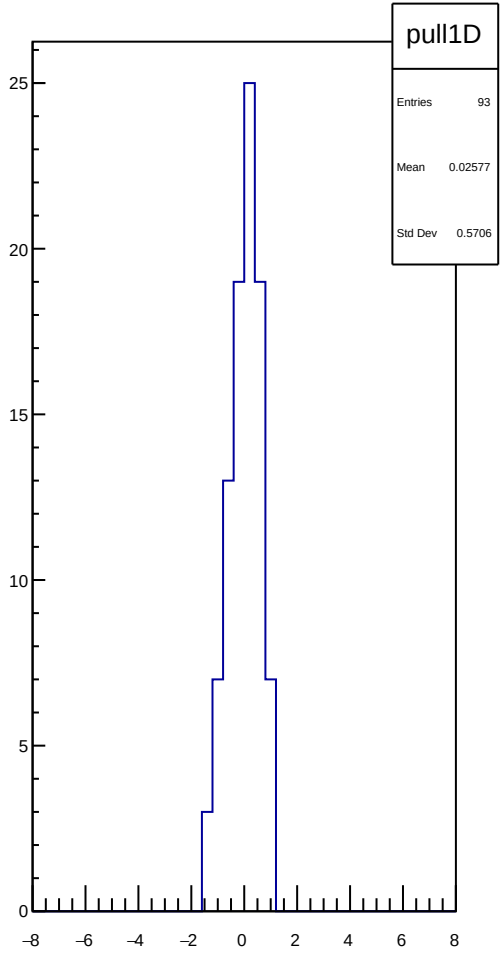

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 58.73 / 92
p0 228.4 ± 4.696
350
300
250
200
150
100
pull
Entries 93
Mean 36.71
Std Dev 63
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.0374
Std Dev 0.7938
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

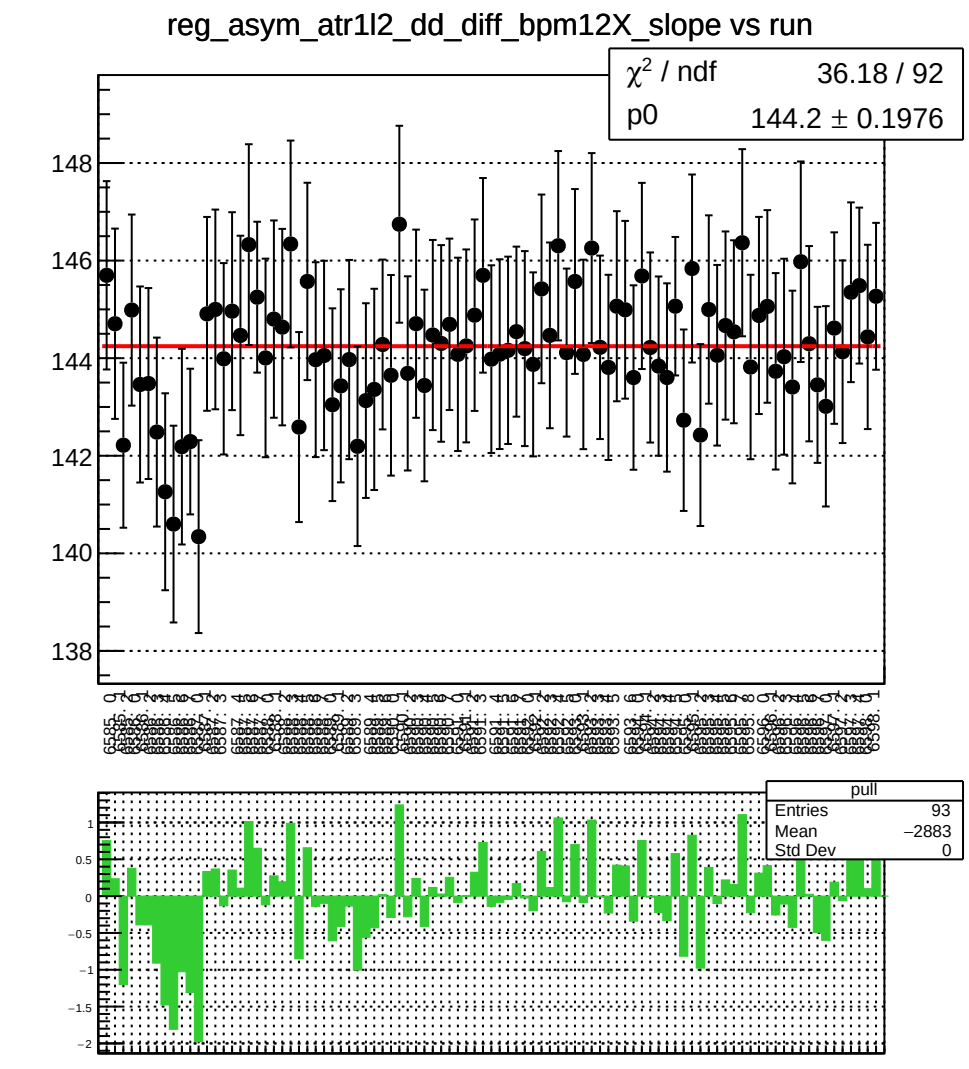

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.03 / 92
p0 −31.12 ± 3.434
50
0
−50
−100
−150
pull
Entries 93
Mean 22.65
Std Dev 70.23
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

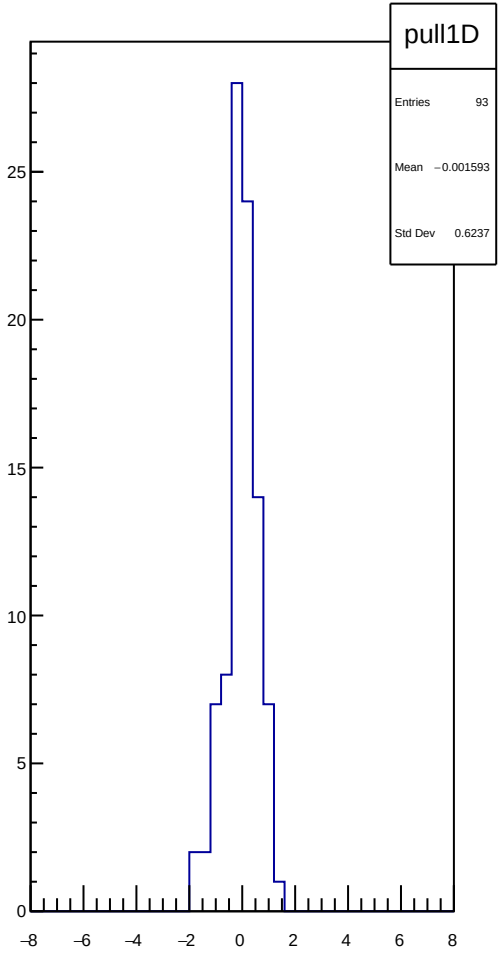

pull1D
Entries 93
Mean −0.02431
Std Dev 0.5285
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

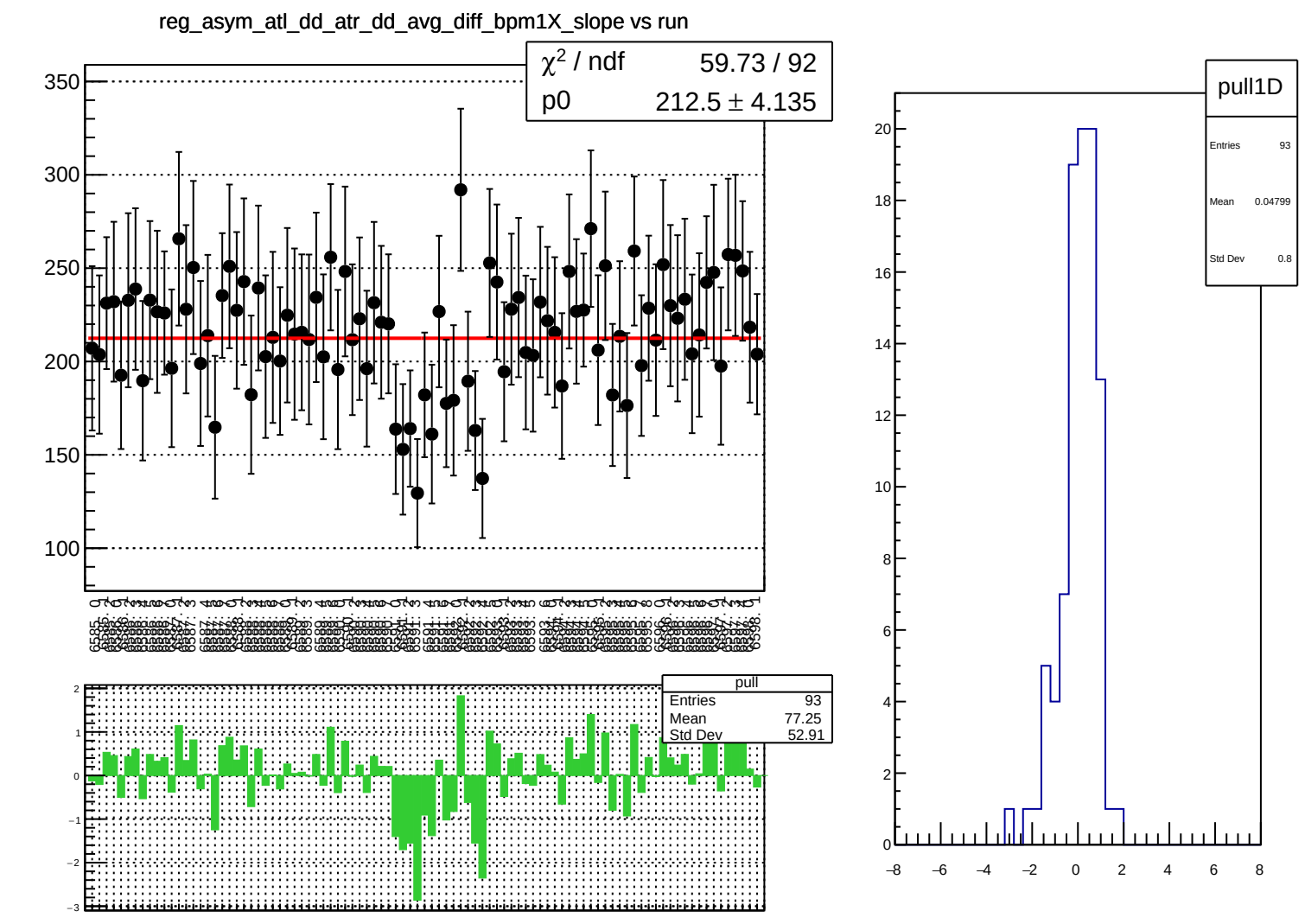

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.28 / 92
p0 −242.3 ± 4.817
−100
−150
−200
−250
−300
−350
−400
pull
Entries 93
Mean 40.44
Std Dev 63.07
3
2
1
0
−1
pull1D
Entries 93
Mean −0.03959
Std Dev 0.7974
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

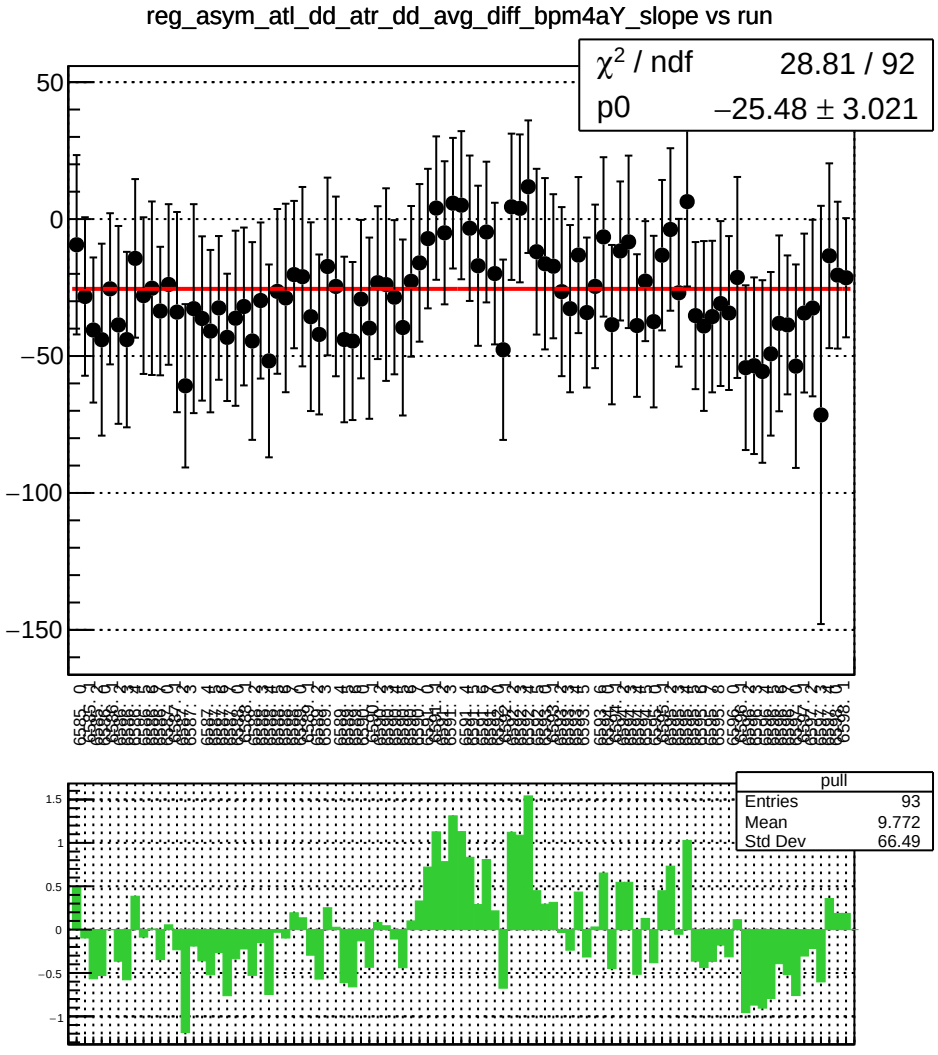

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.34 / 92
p0 −52.4 ± 4.086
50
0
−50
−100
−150
pull
Entries 93
Mean −12.42
Std Dev 45.34
1
0.5
0
−0.5
−1

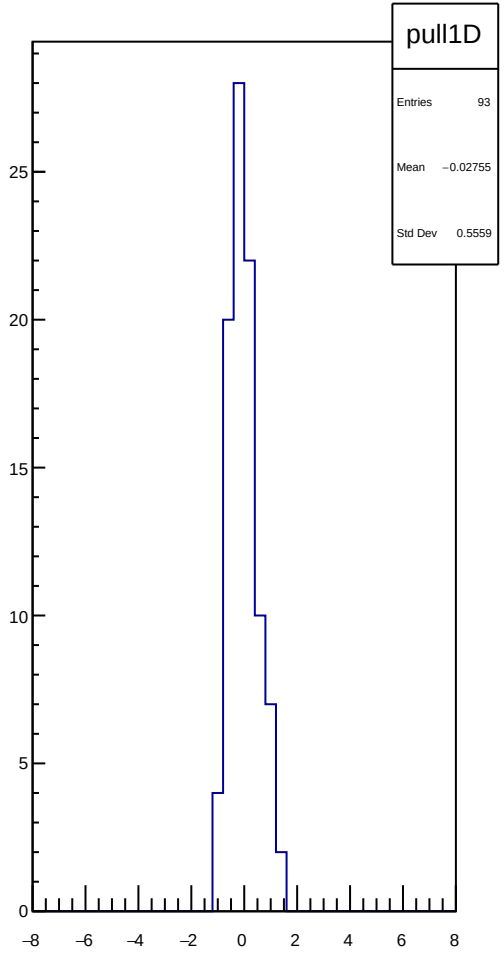

pull1D
Entries 93
Mean 0.02577
Std Dev 0.5706
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

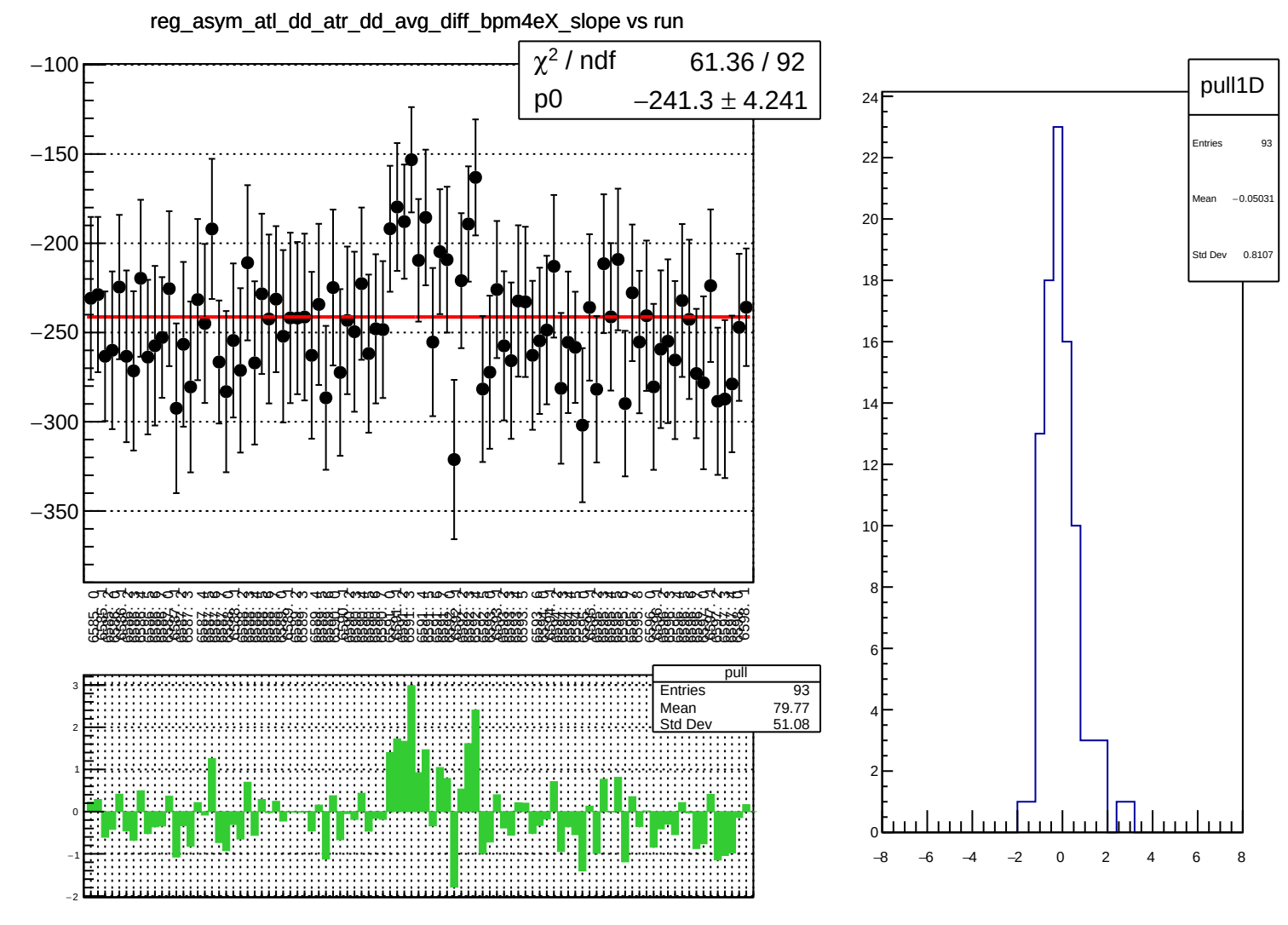

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 36.18 / 92
p0 144.2 ± 0.1976
148
146
144
142
140
138
pull
Entries 93
Mean −2883
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

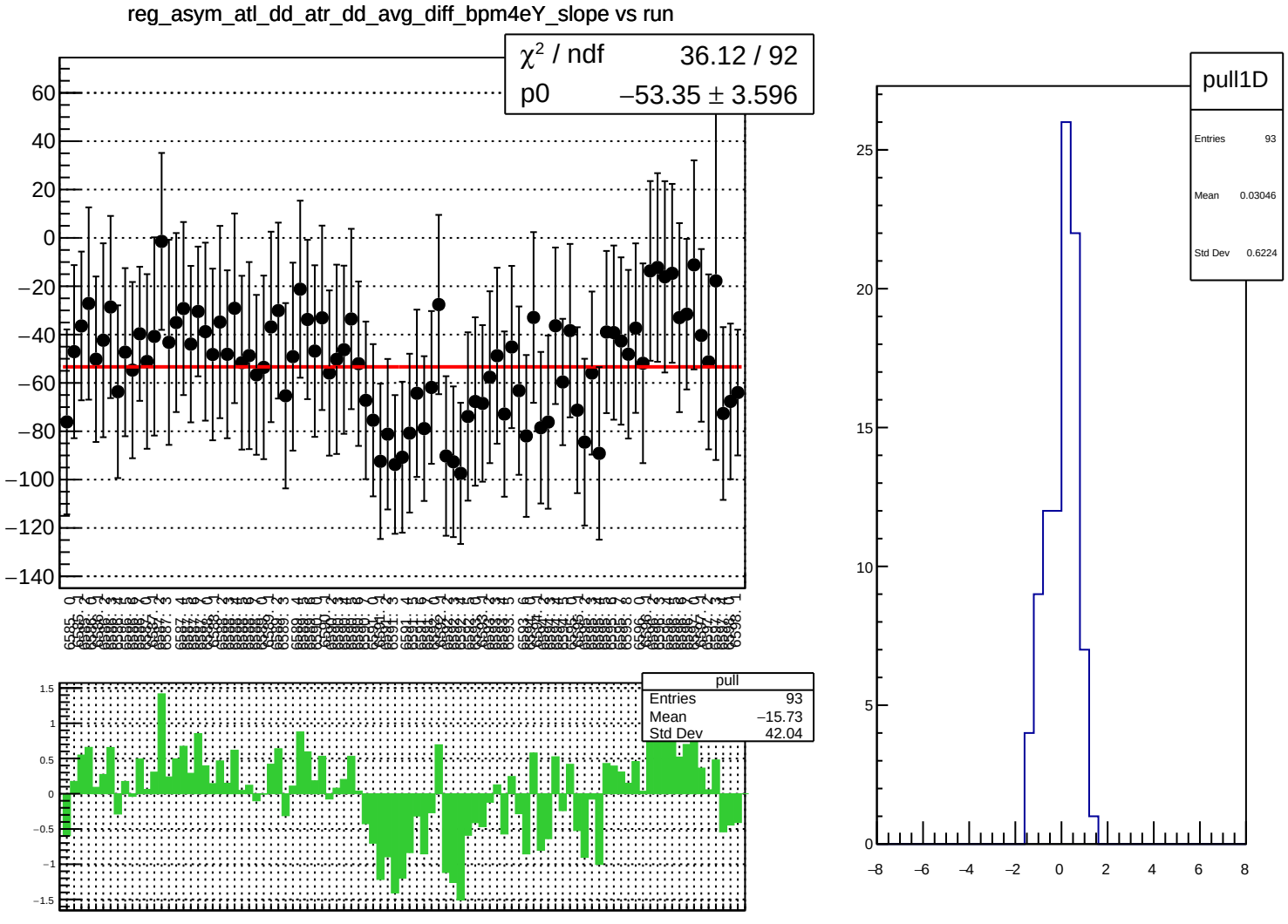

pull1D
Entries 93
Mean −0.001593
Std Dev 0.6237
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

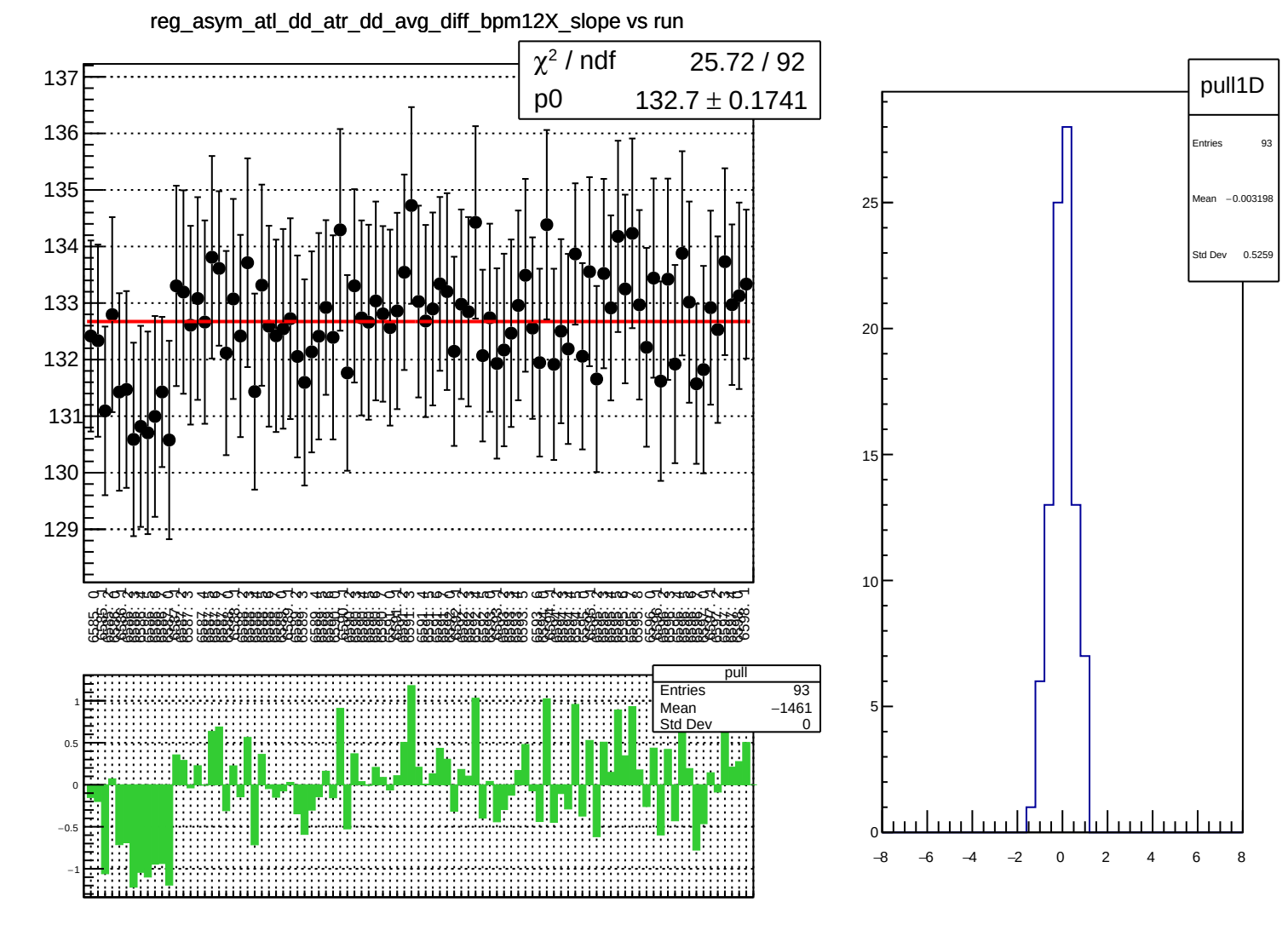

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 59.73 / 92
p0 212.5 ± 4.135
350
300
250
200
150
100
pull
Entries 93
Mean 77.25
Std Dev 52.91
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.04799
Std Dev 0.8
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

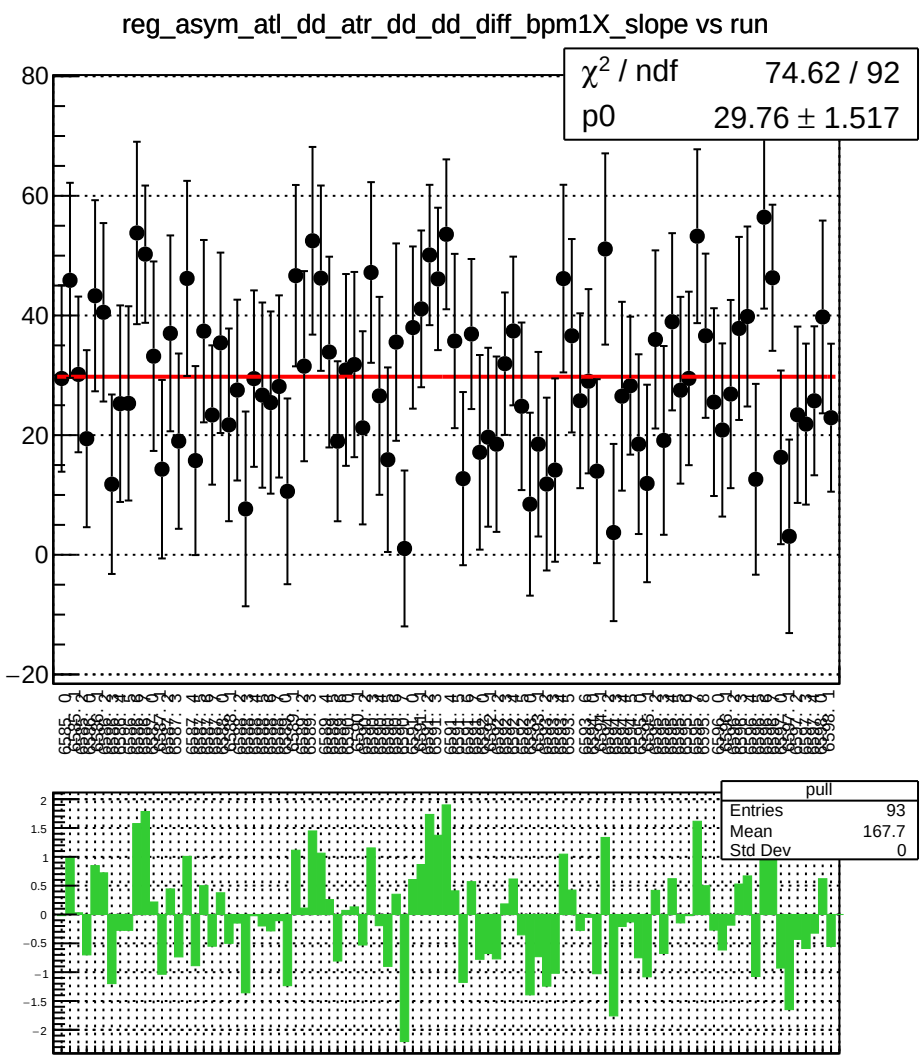

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.81 / 92
p0 −25.48 ± 3.021
50
0
−50
−100
−150
pull
Entries 93
Mean 9.772
Std Dev 66.49
1.5
1
0.5
0
−0.5
−1

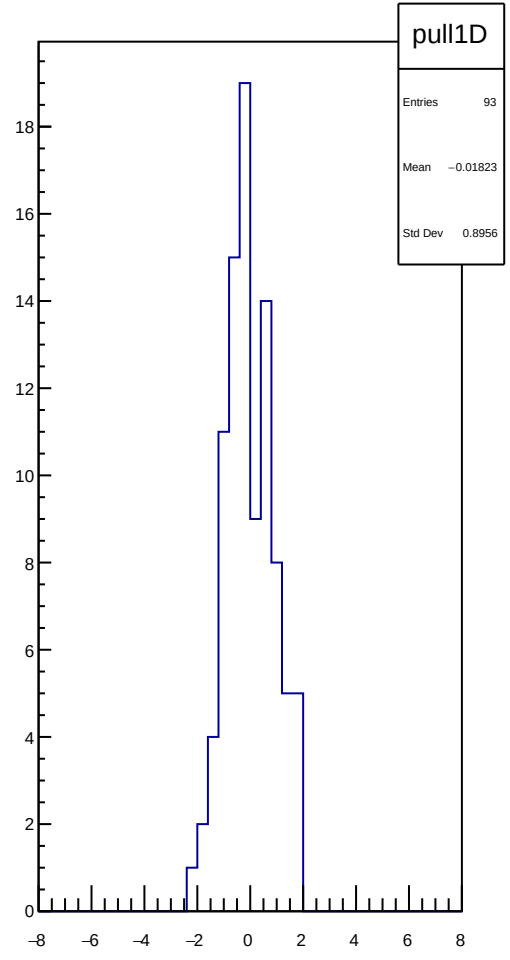

pull1D
Entries 93
Mean −0.02755
Std Dev 0.5559
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

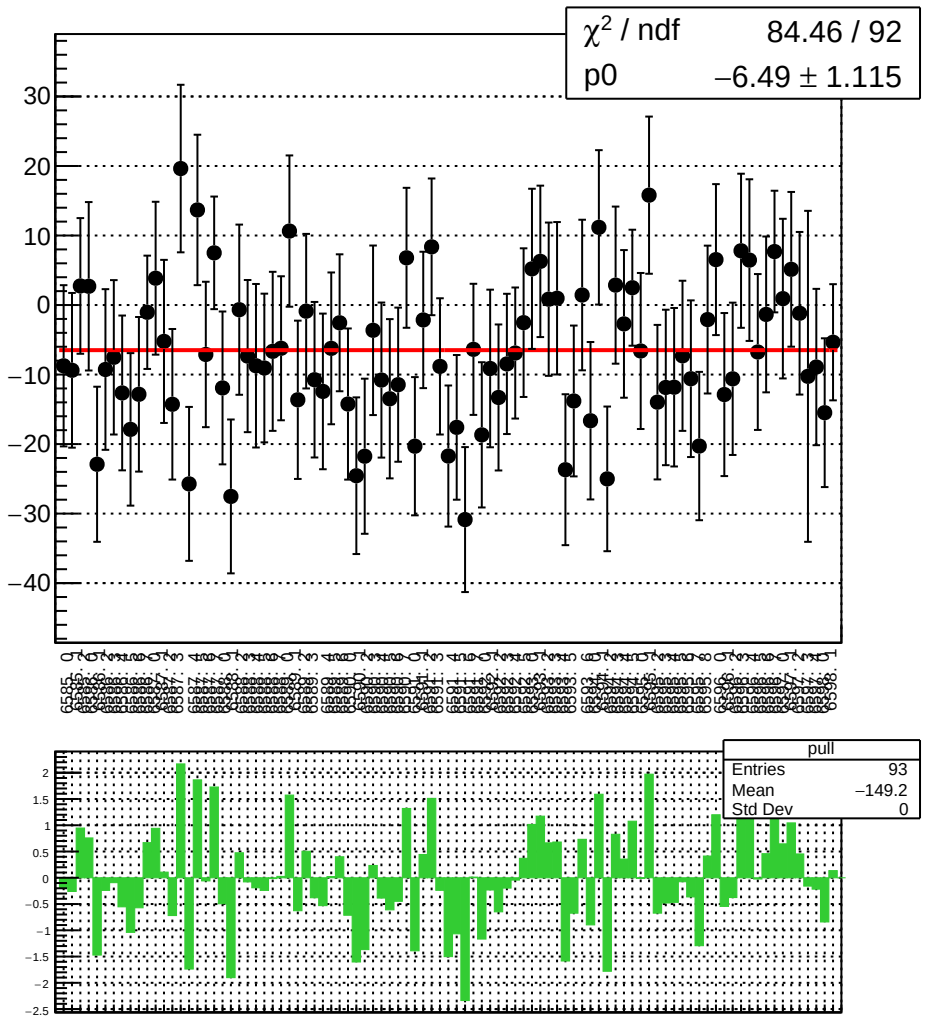

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.36 / 92
p0 −241.3 ± 4.241
−100
−150
−200
−250
−300
−350
pull
Entries 93
Mean 79.77
Std Dev 51.08
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05031
Std Dev 0.8107
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

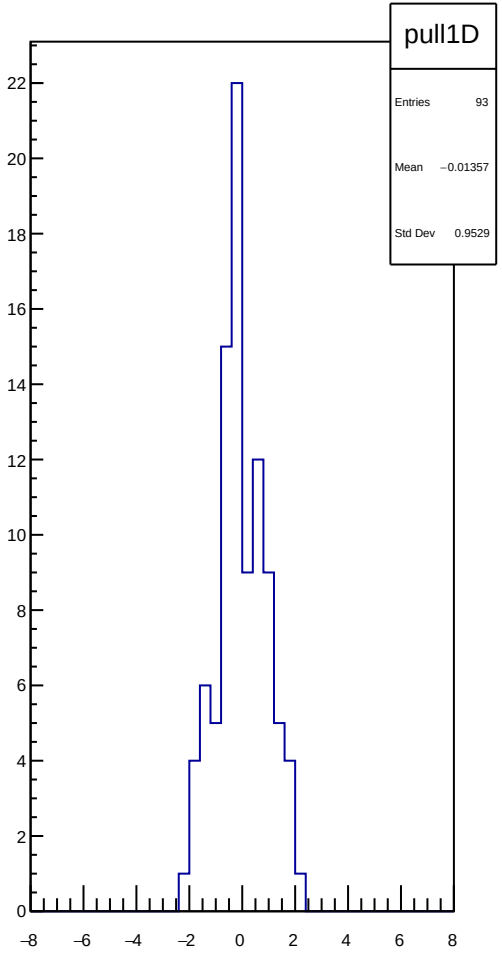

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.12 / 92
p0 −53.35 ± 3.596
pull
Entries 93
Mean −15.73
Std Dev 42.04
pull1D
Entries 93
Mean 0.03046
Std Dev 0.6224

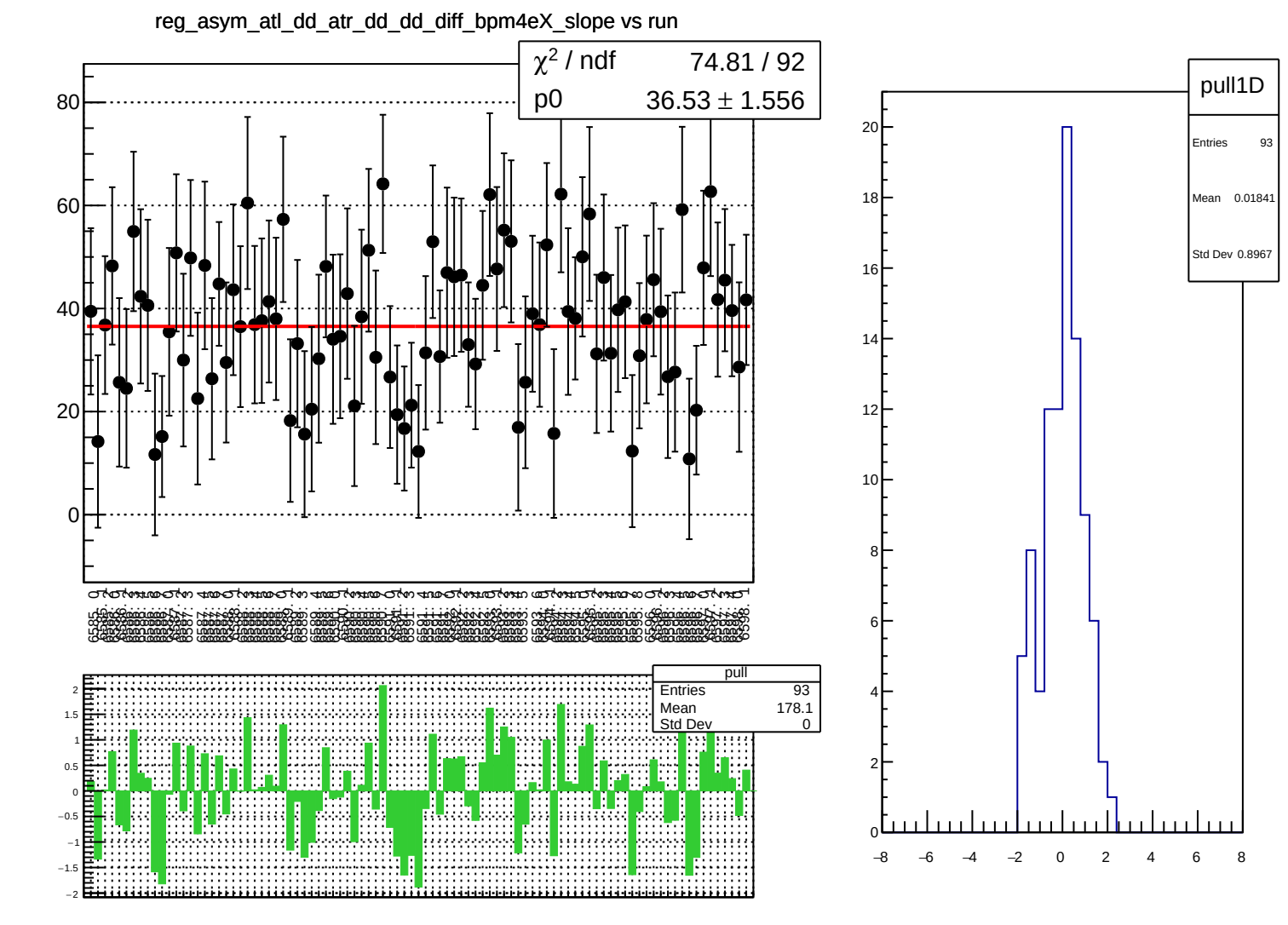

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 25.72 / 92
p0 132.7 ± 0.1741
pull
Entries 93
Mean −1461
Std Dev 0
pull1D
Entries 93
Mean −0.003198
Std Dev 0.5259

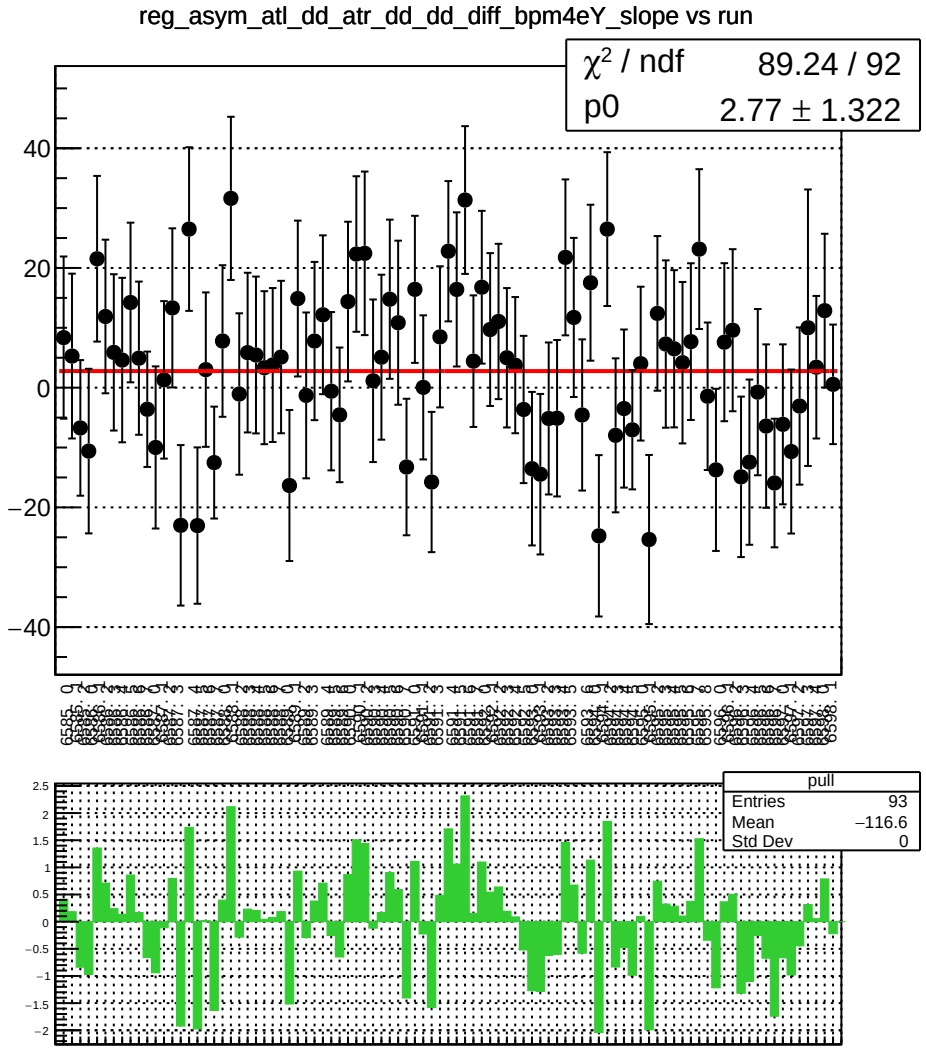

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 74.62 / 92
p0 29.76 ± 1.517
pull
Entries 93
Mean 167.7
Std Dev 0

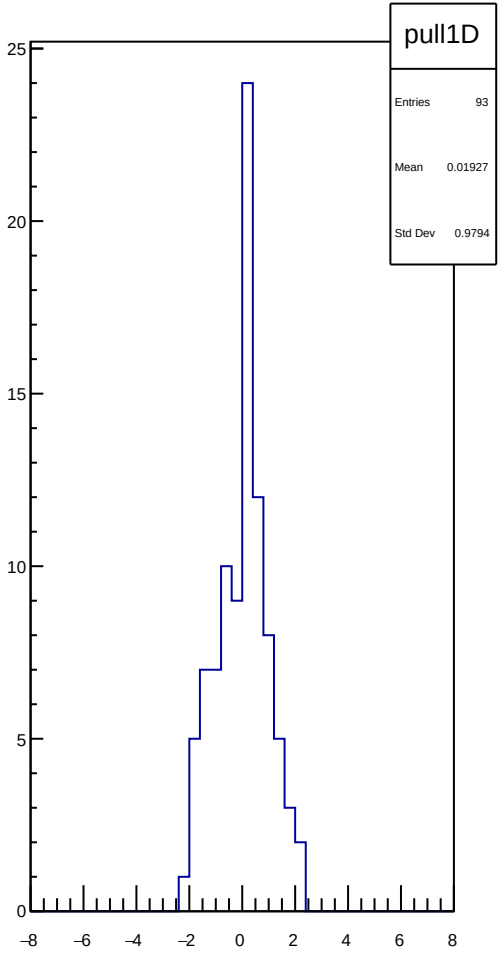

pull1D
Entries 93
Mean −0.01823
Std Dev 0.8956

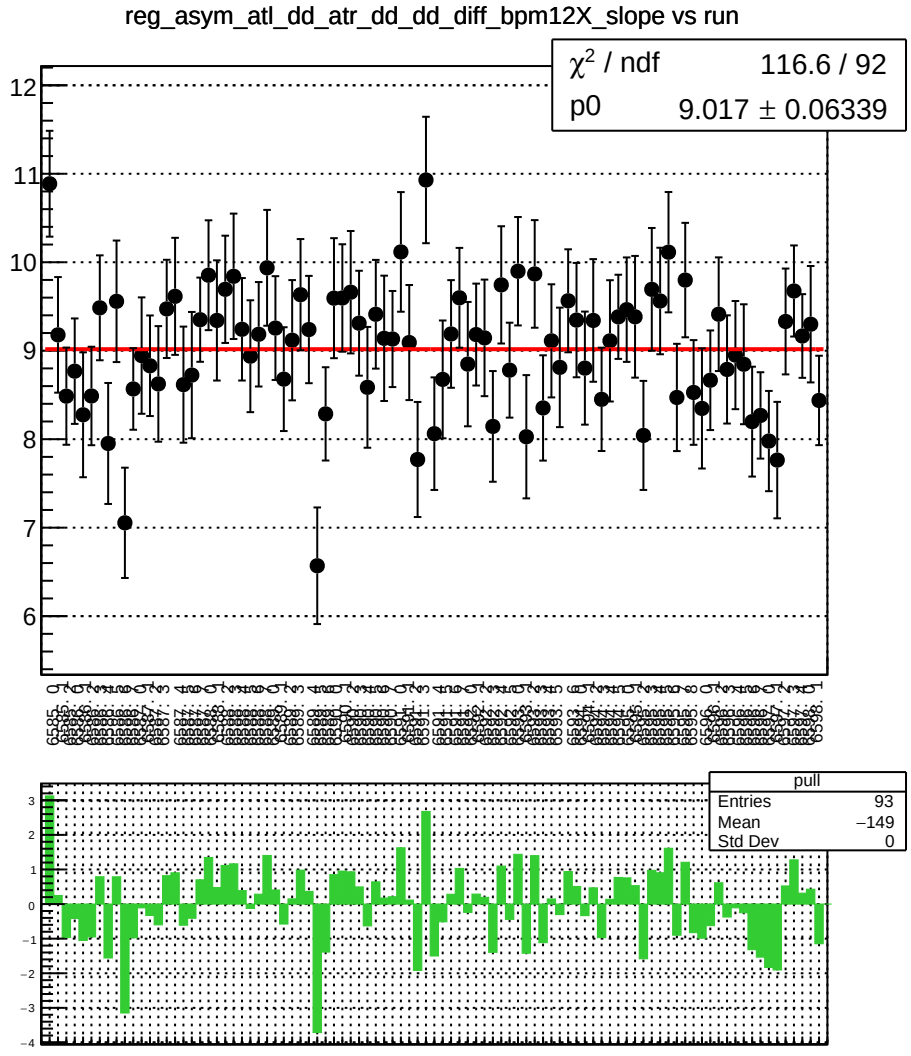

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.46 / 92
p0 −6.49 ± 1.115
pull
Entries 93
Mean −149.2
Std Dev 0

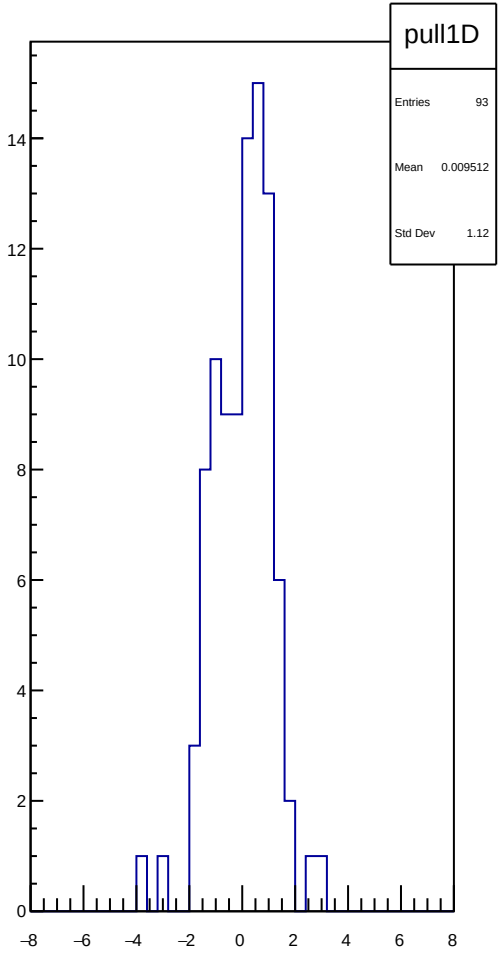

pull1D
Entries 93
Mean −0.01357
Std Dev 0.9529

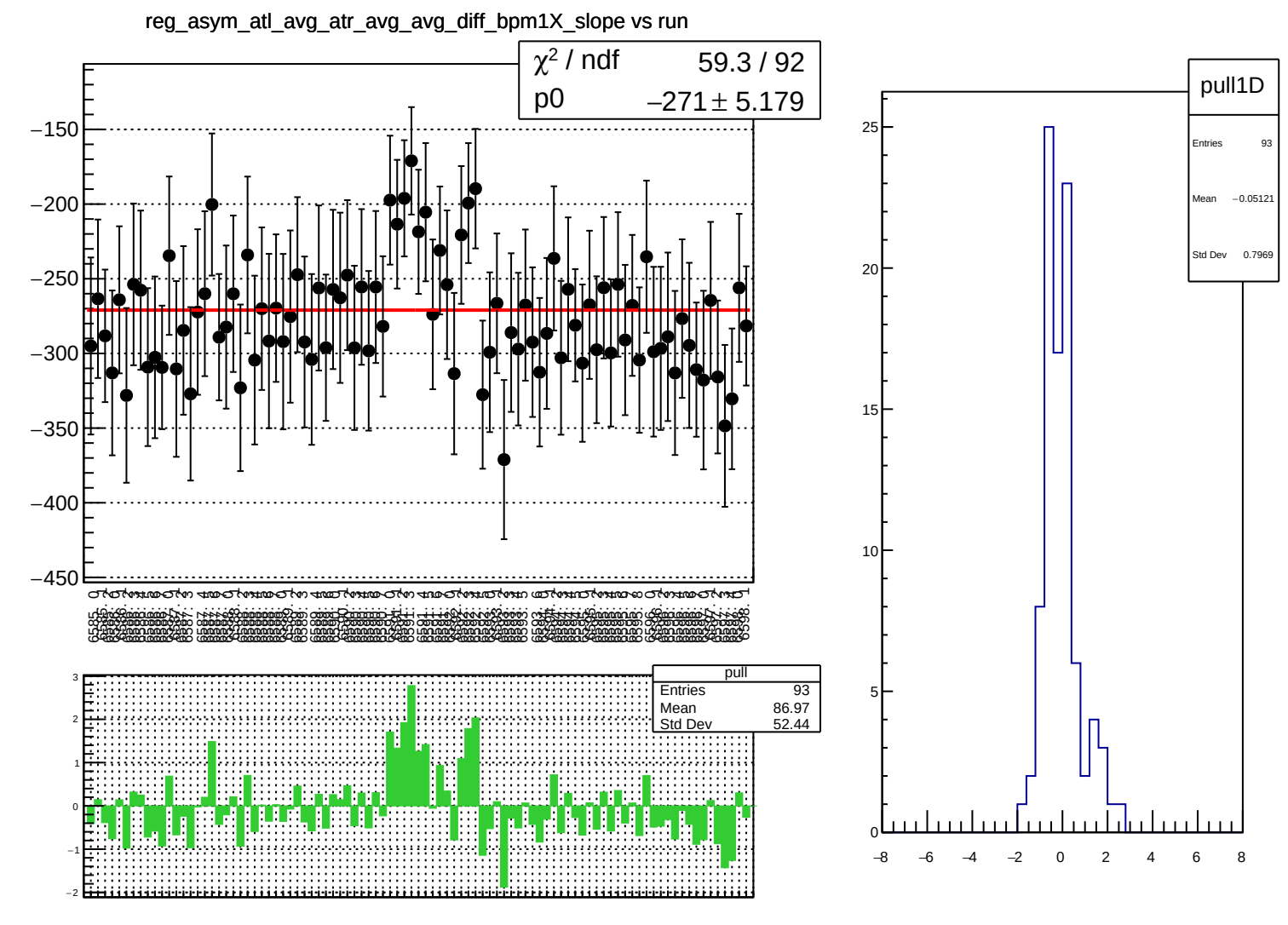

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.81 / 92
p0 36.53 ± 1.556
pull
Entries 93
Mean 178.1
Std Dev 0
pull1D
Entries 93
Mean 0.01841
Std Dev 0.8967

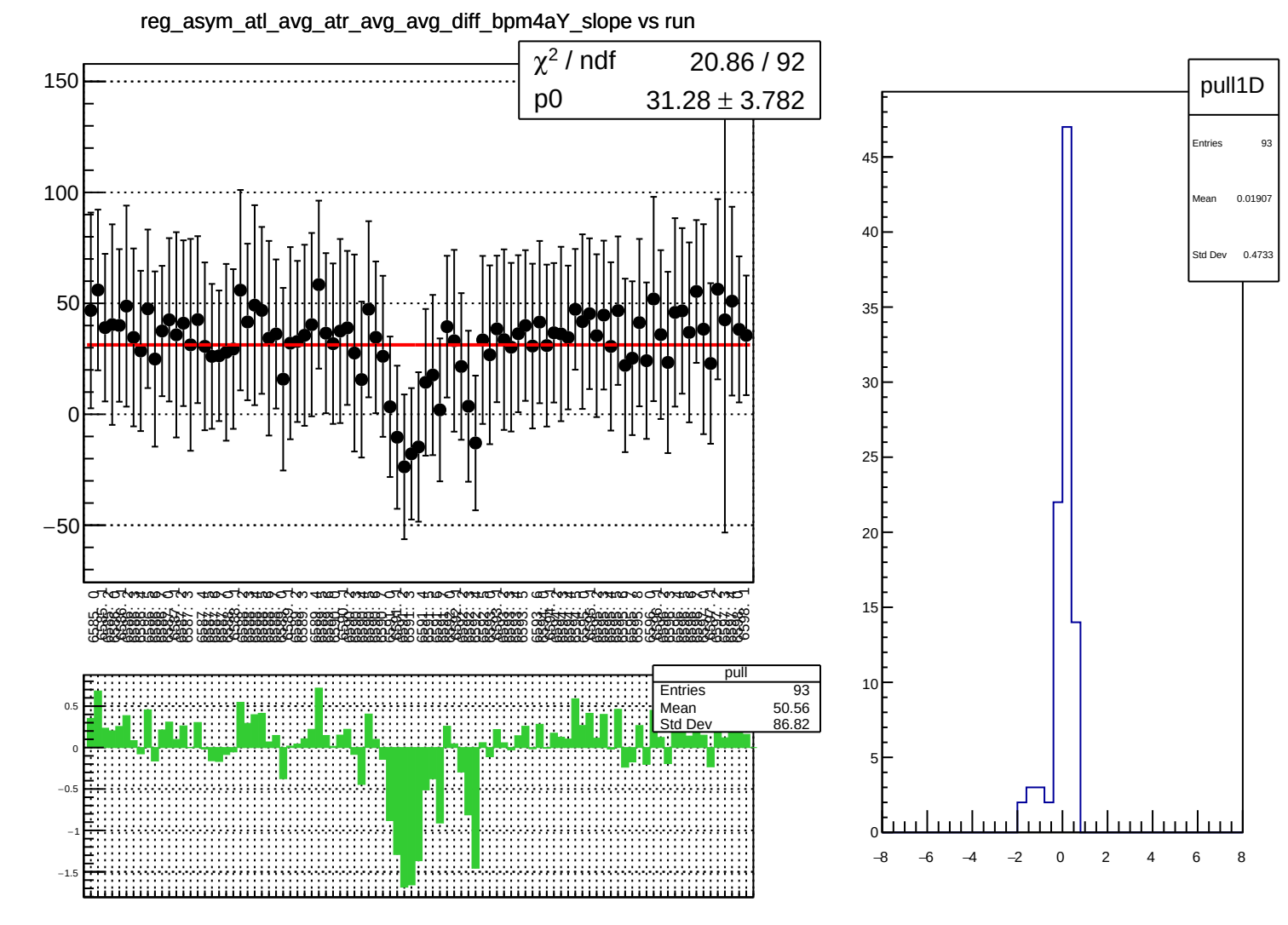

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.24 / 92
p0 2.77 ± 1.322
pull
Entries 93
Mean −116.6
Std Dev 0

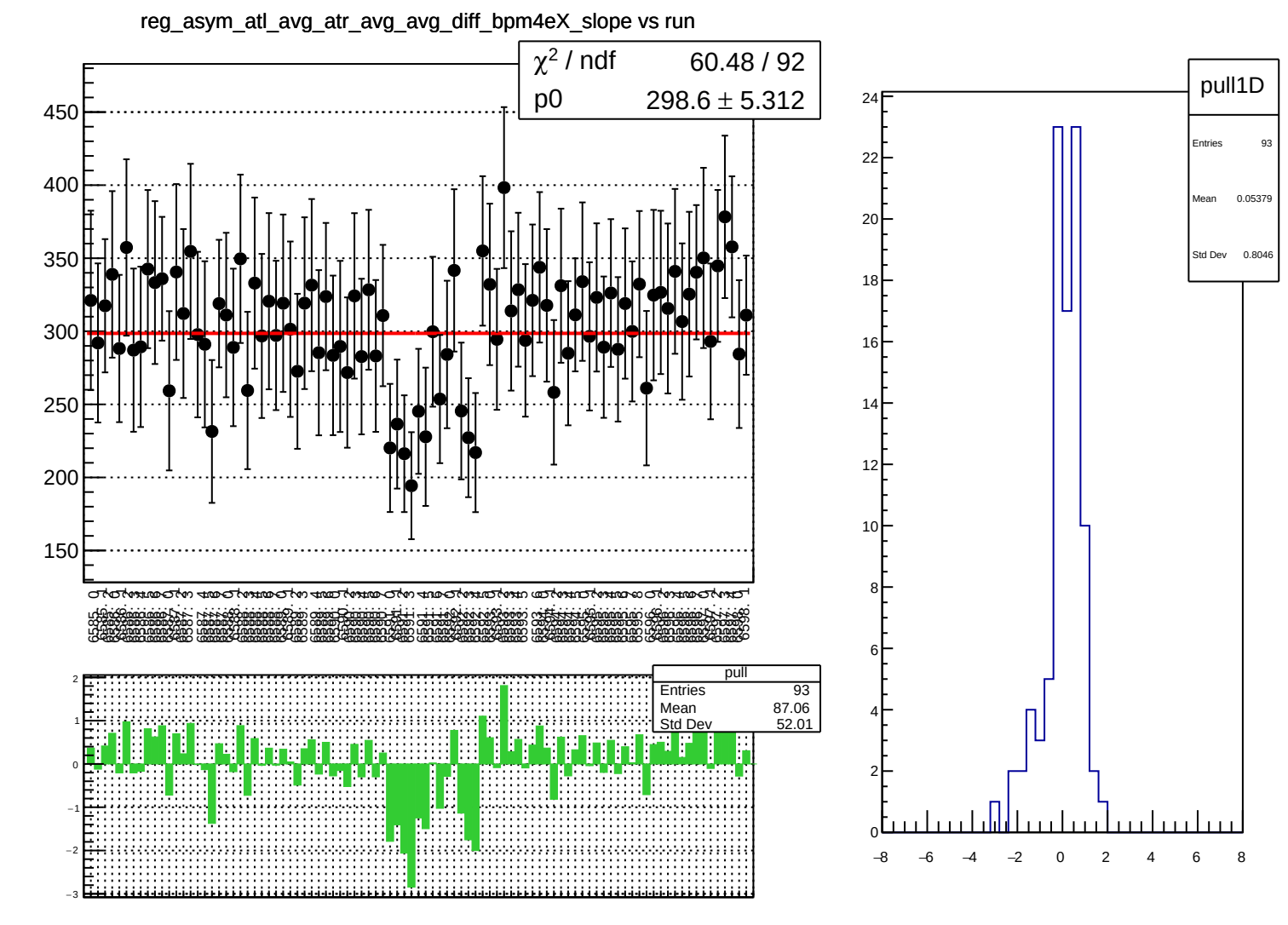

pull1D
Entries 93
Mean 0.01927
Std Dev 0.9794

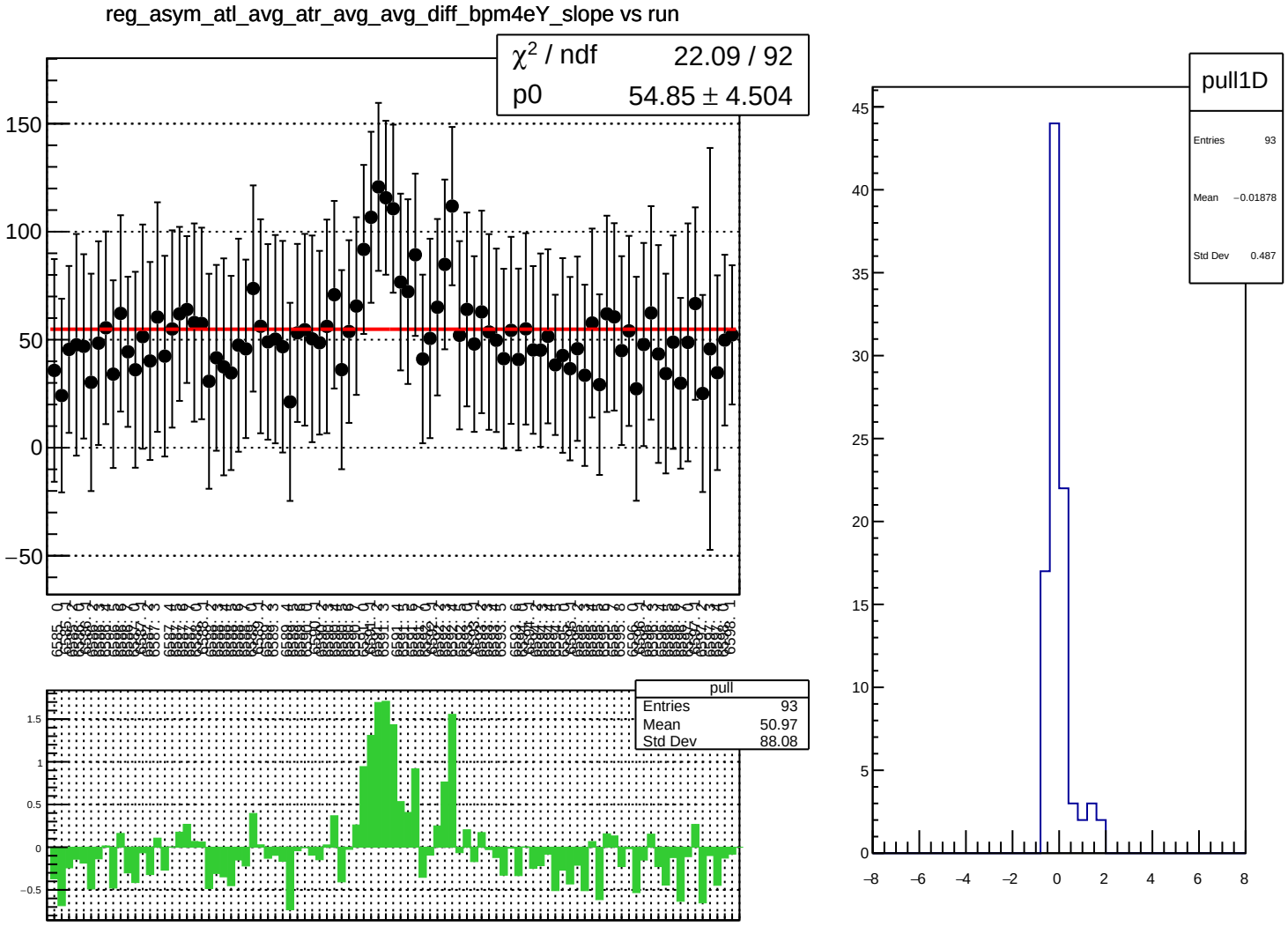

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 116.6 / 92
p0 9.017 ± 0.06339
pull
Entries 93
Mean −149
Std Dev 0

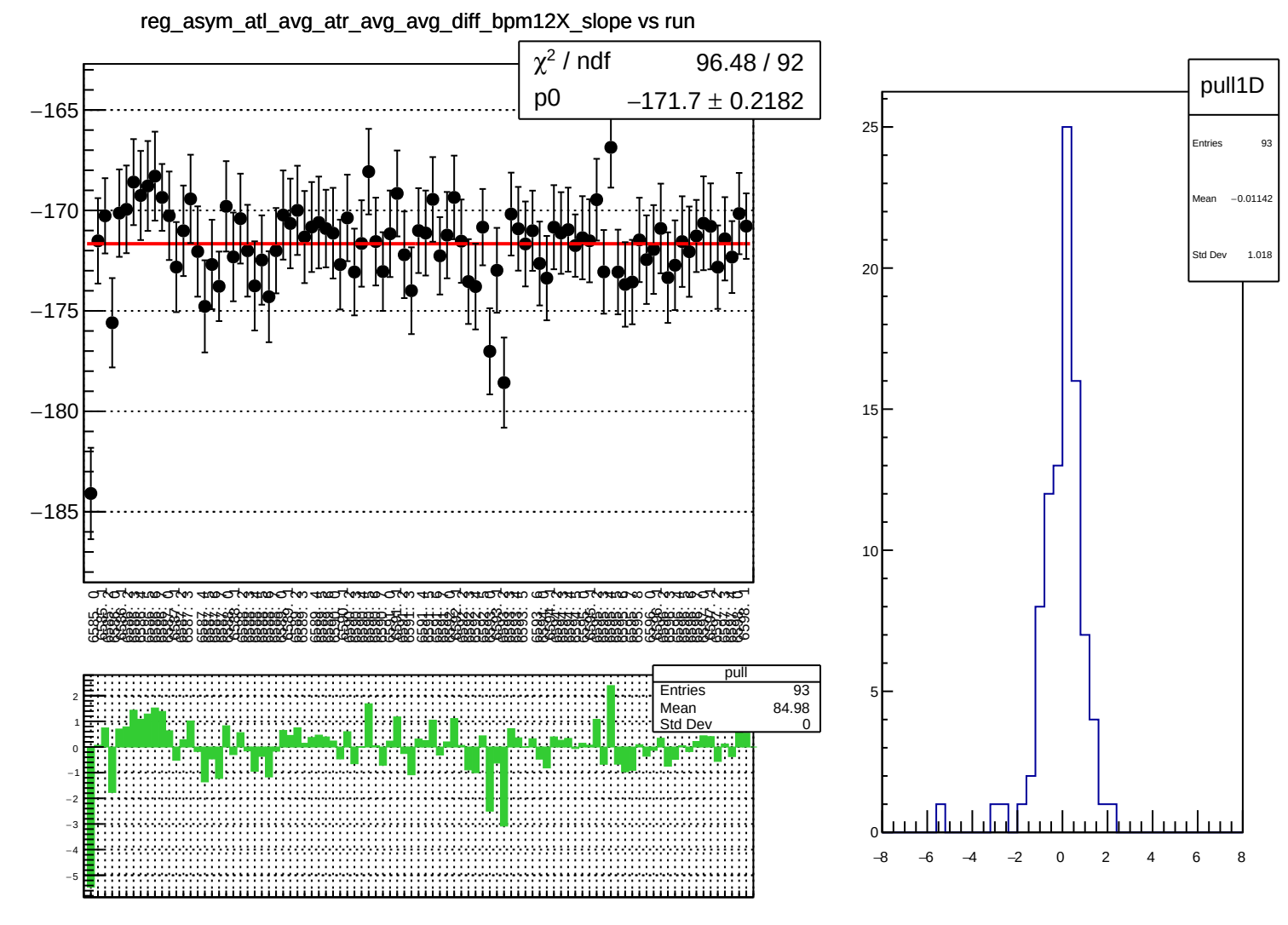

pull1D
Entries 93
Mean 0.009512
Std Dev 1.12

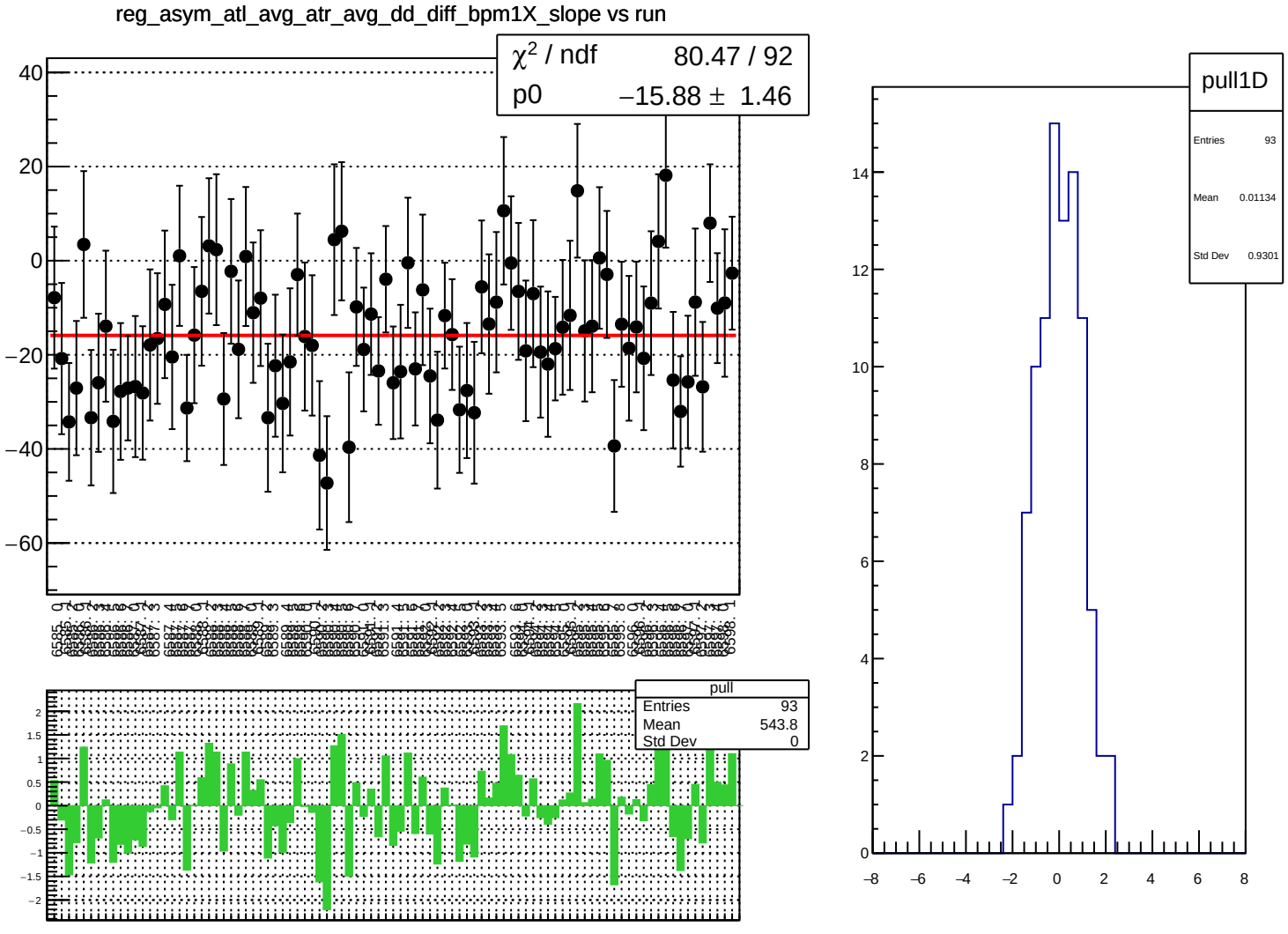

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 59.3 / 92
p0 −271 ± 5.179
pull
Entries 93
Mean 86.97
Std Dev 52.44
pull1D
Entries 93
Mean −0.05121
Std Dev 0.7969

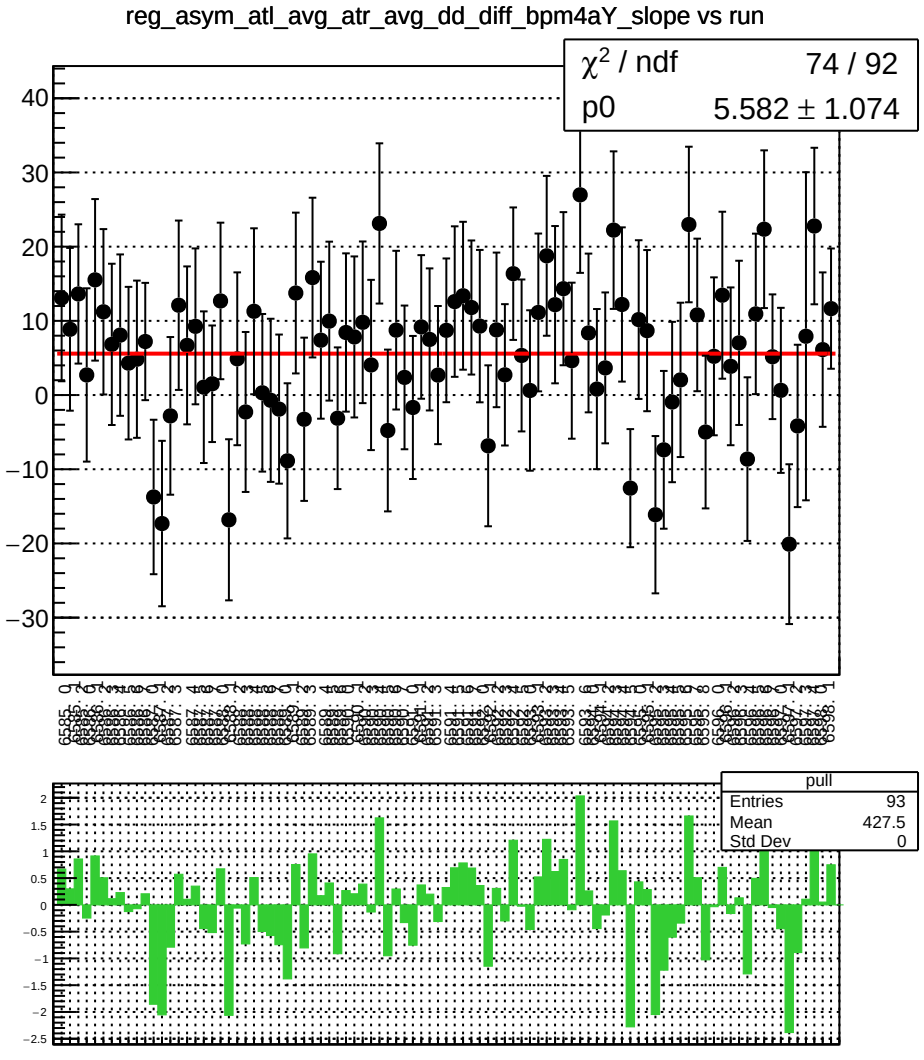

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.86 / 92
p0 31.28 ± 3.782
150
100
50
0
−50
pull
Entries 93
Mean 50.56
Std Dev 86.82
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.01907
Std Dev 0.4733
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

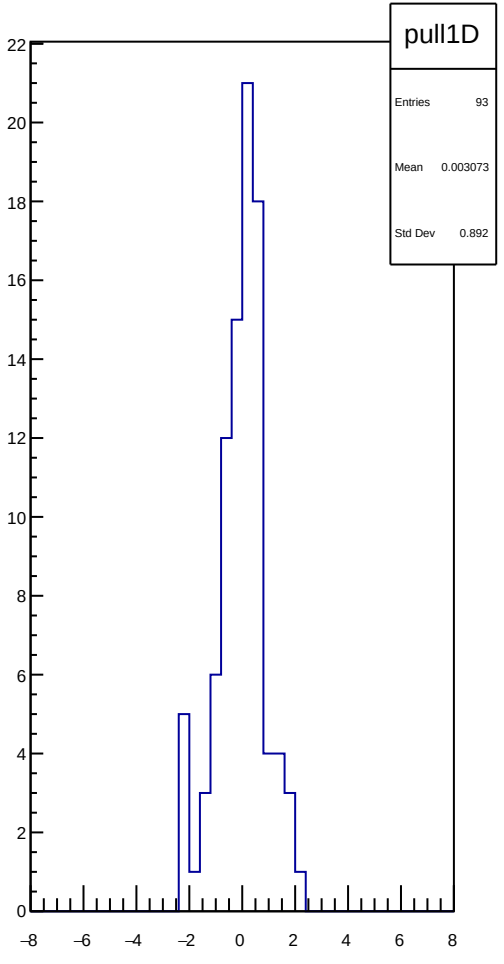

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.48 / 92
p0 298.6 ± 5.312
pull
Entries 93
Mean 87.06
Std Dev 52.01
pull1D
Entries 93
Mean 0.05379
Std Dev 0.8046

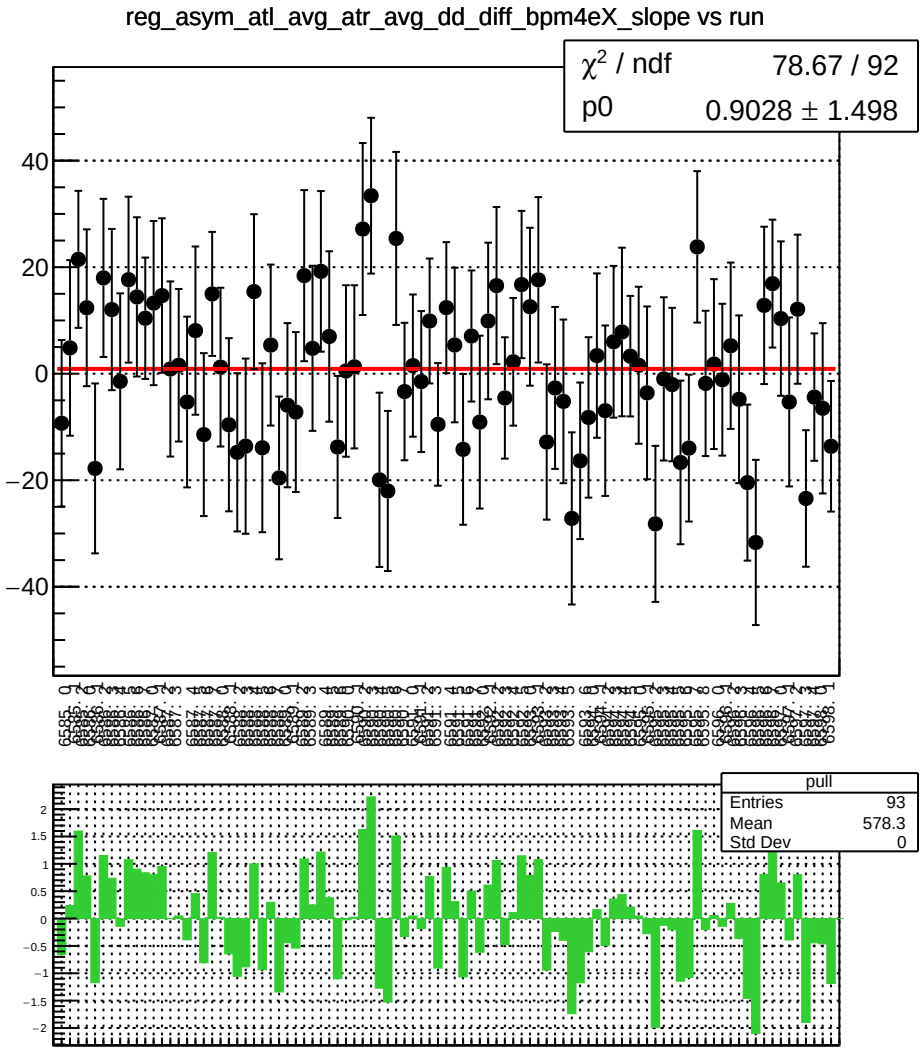

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.09 / 92
p0 54.85 ± 4.504
150
100
50
0
−50
pull
Entries 93
Mean 50.97
Std Dev 88.08
1.5
1
0.5
0
−0.5
pull1D
Entries 93
Mean −0.01878
Std Dev 0.487
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

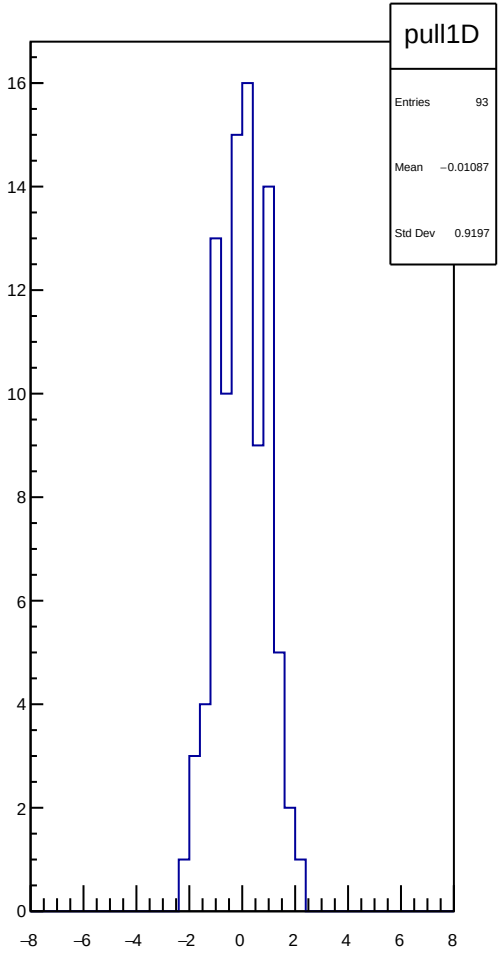

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 96.48 / 92
p0 −171.7 ± 0.2182
−165
−170
−175
−180
−185
pull
Entries 93
Mean 84.98
Std Dev 0
pull1D
Entries 93
Mean −0.01142
Std Dev 1.018

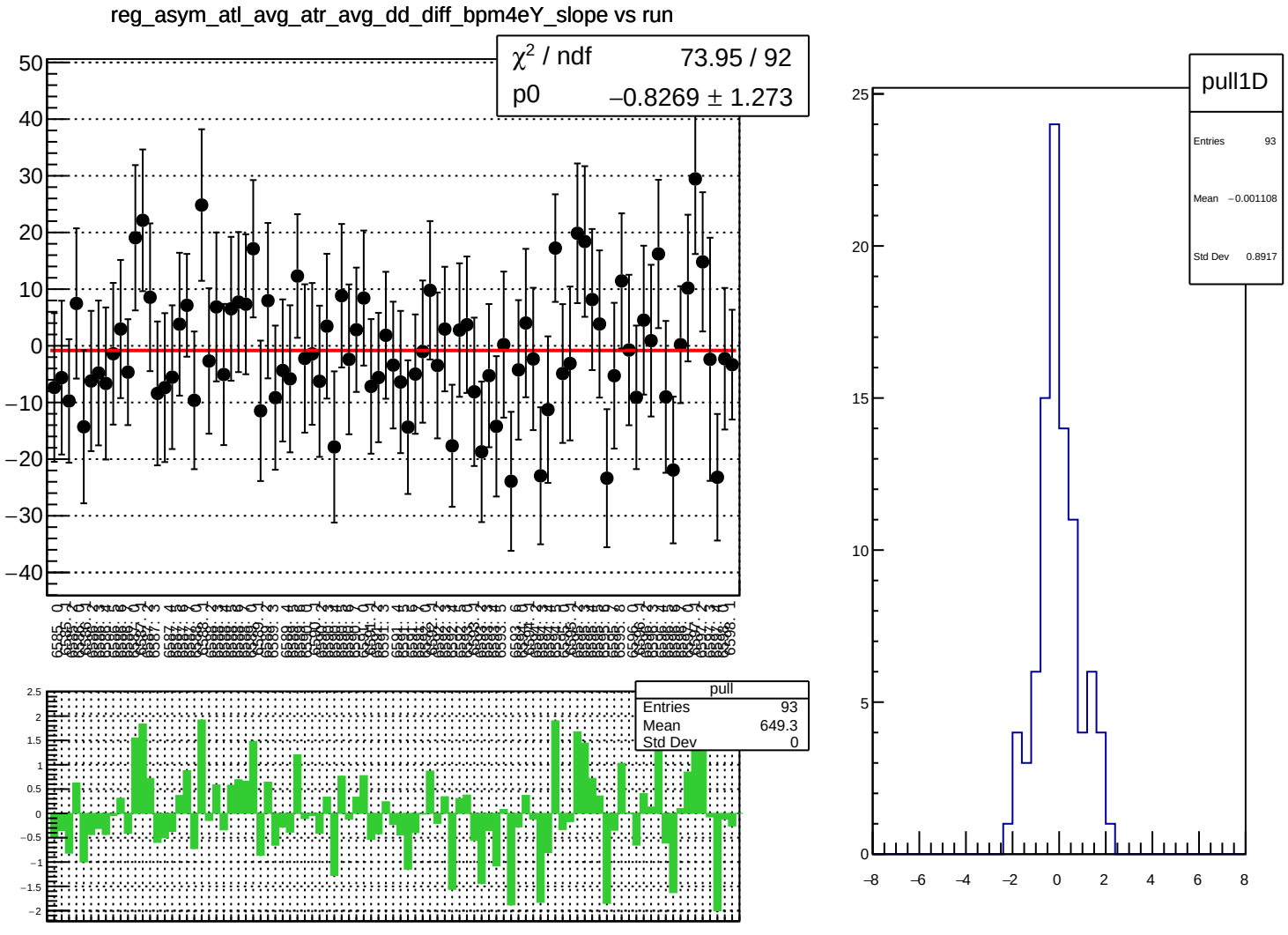

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 80.47 / 92
p0 −15.88 ± 1.46
pull
Entries 93
Mean 543.8
Std Dev 0
pull1D
Entries 93
Mean 0.01134
Std Dev 0.9301

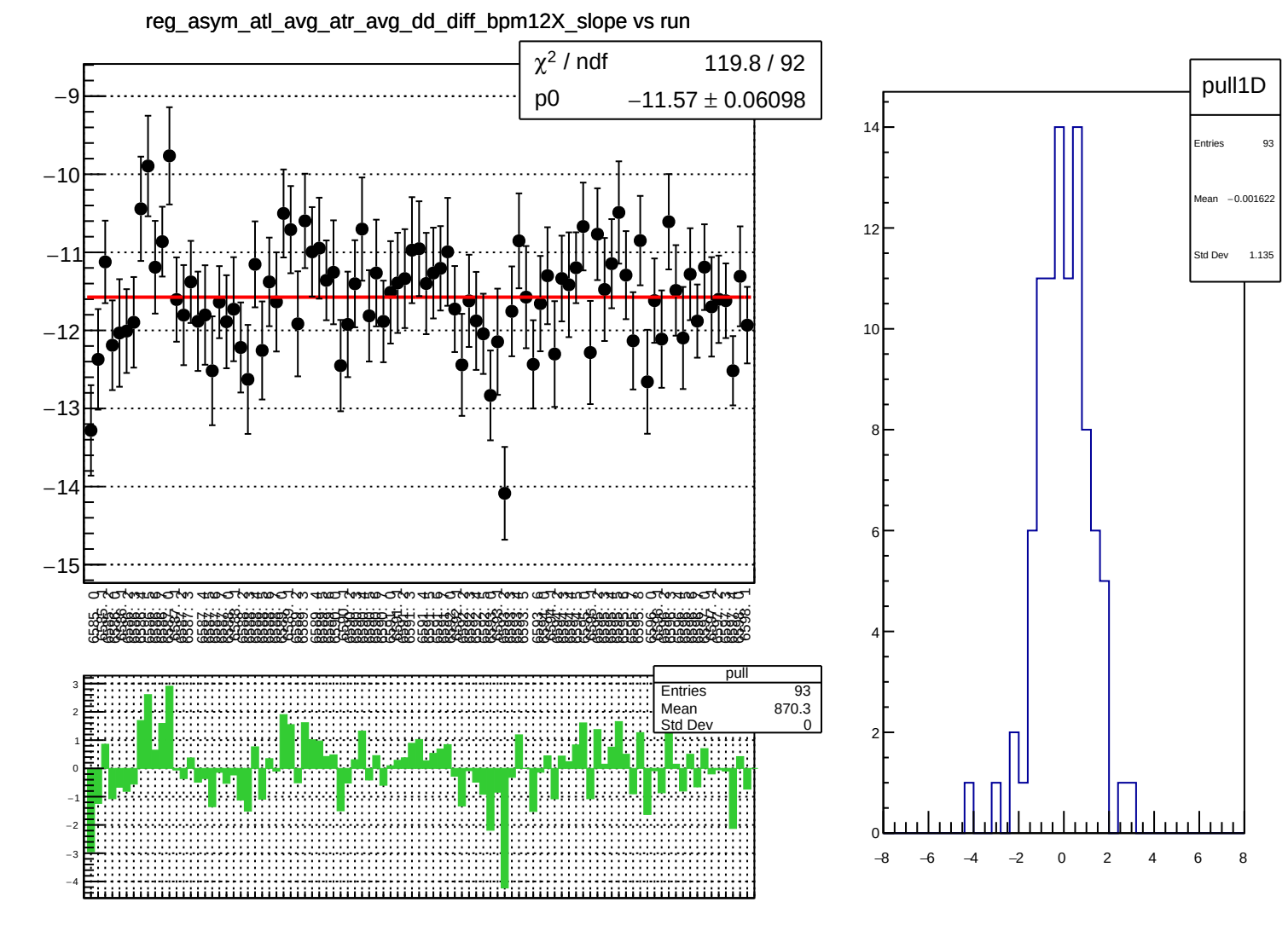

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 74 / 92
p0 5.582 ± 1.074
pull
Entries 93
Mean 427.5
Std Dev 0

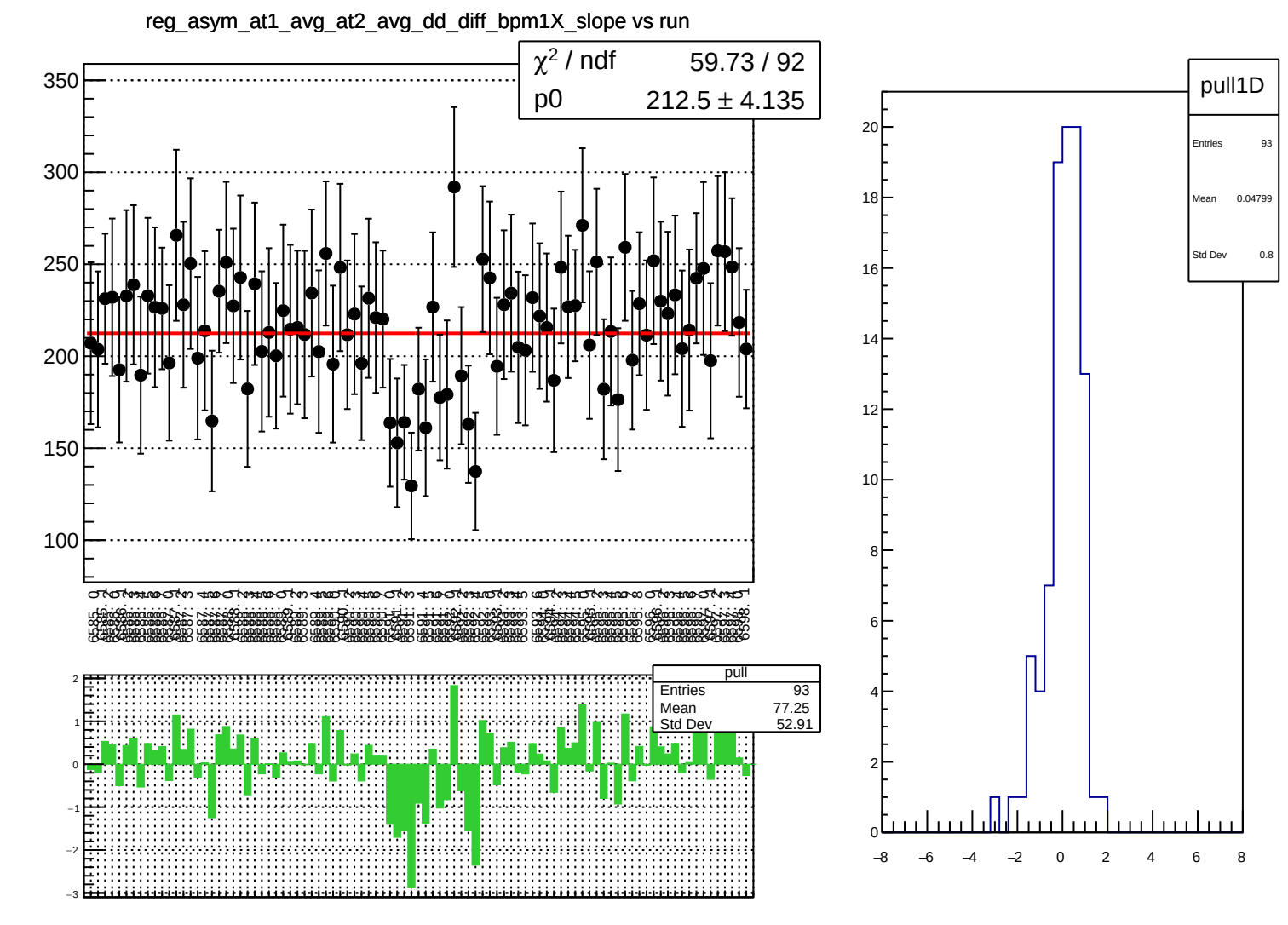

pull1D
Entries 93
Mean 0.003073
Std Dev 0.892

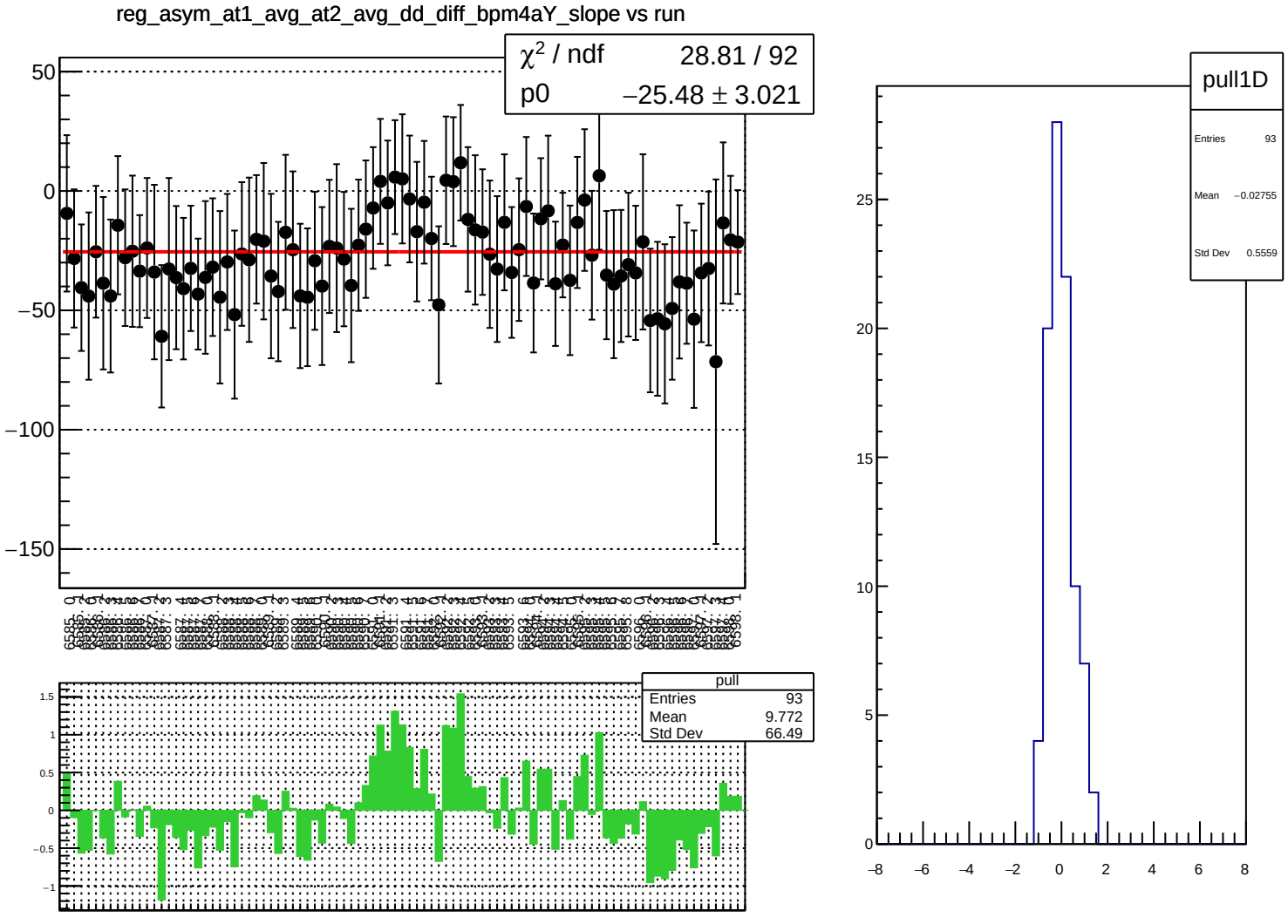

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.67 / 92
p0 0.9028 ± 1.498
40
20
0
−20
−40
pull
Entries 93
Mean 578.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

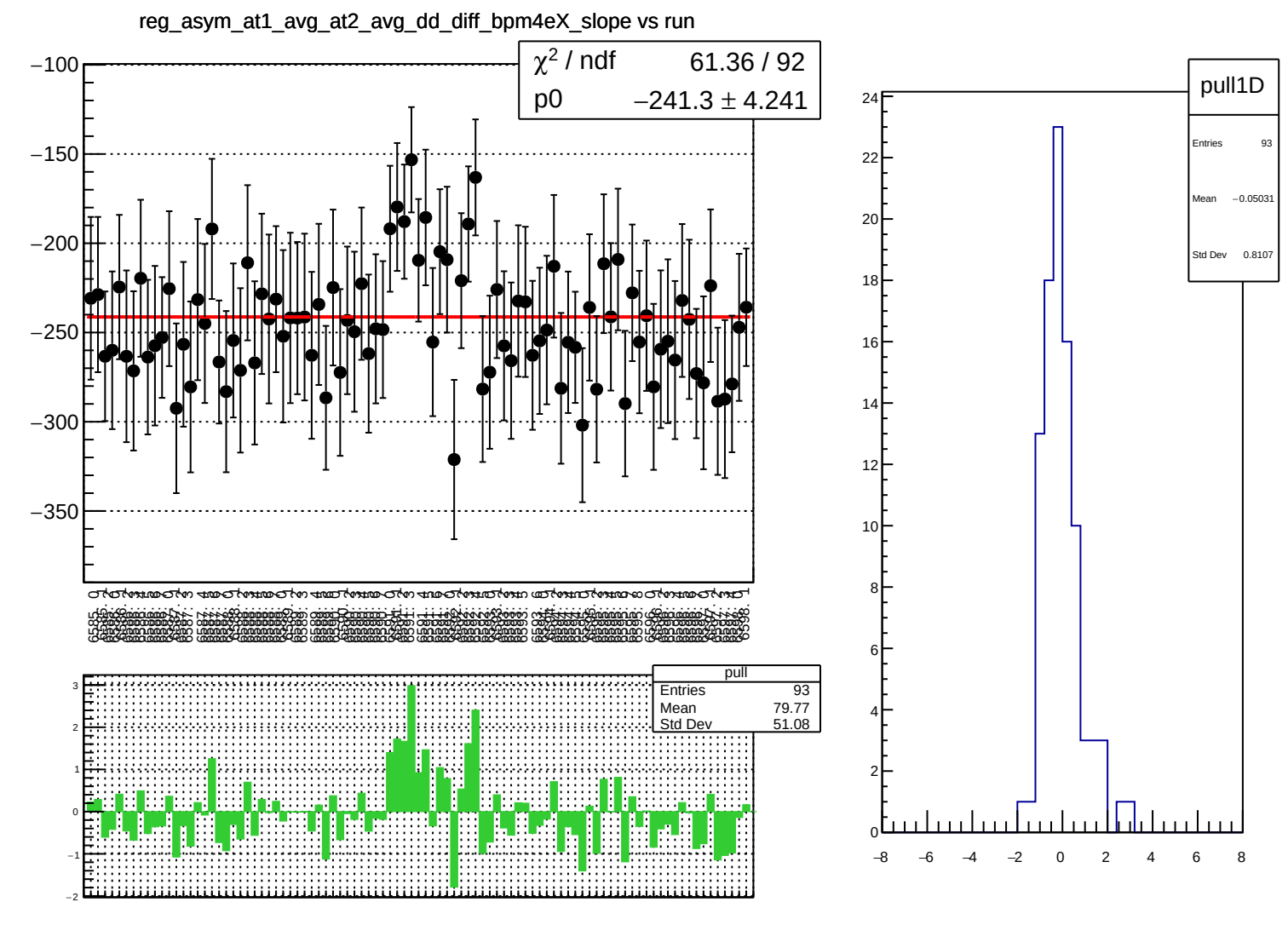

pull1D
Entries 93
Mean −0.01087
Std Dev 0.9197
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

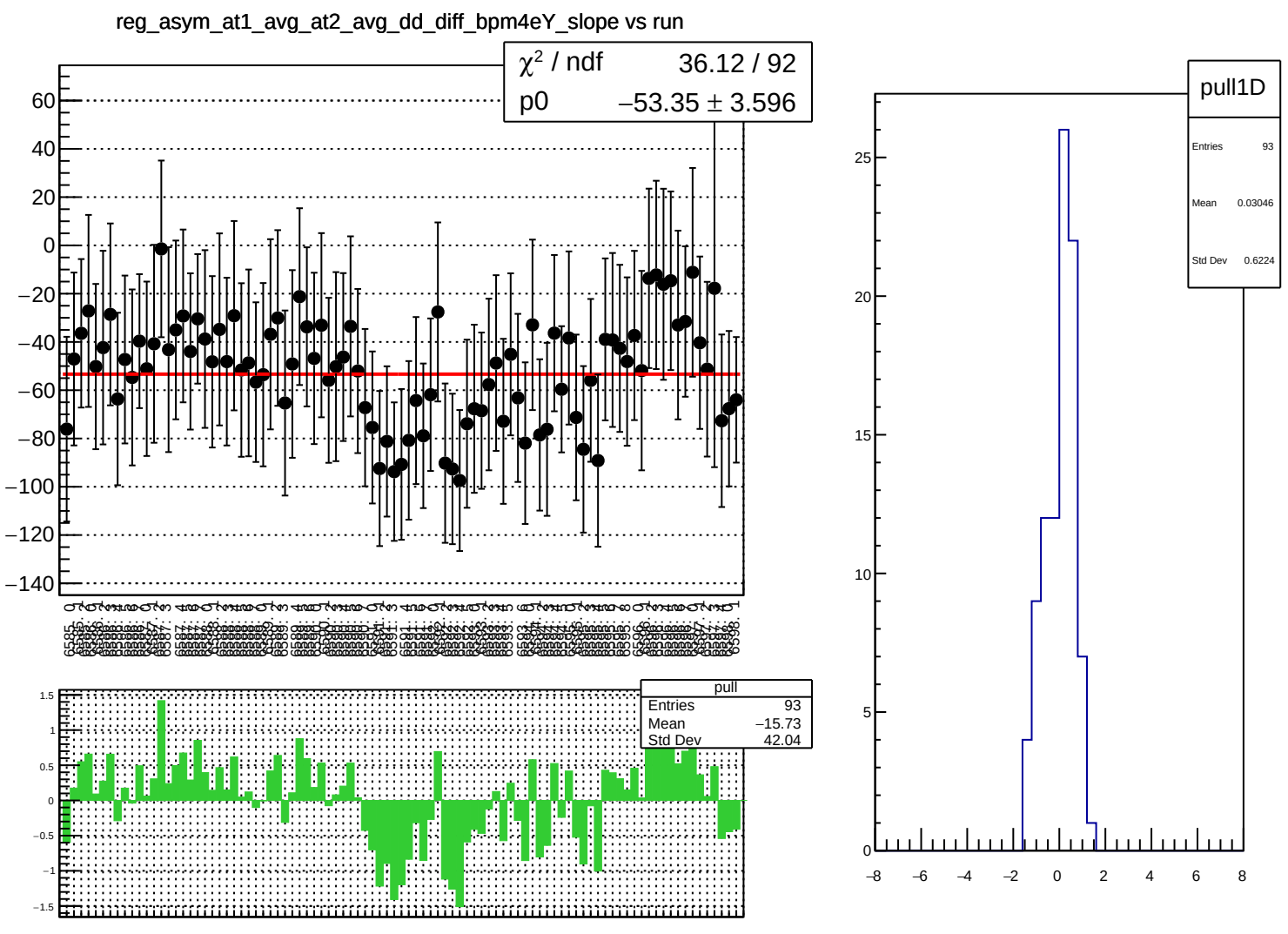

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.95 / 92
p0 −0.8269 ± 1.273
pull
Entries 93
Mean 649.3
Std Dev 0
pull1D
Entries 93
Mean −0.001108
Std Dev 0.8917

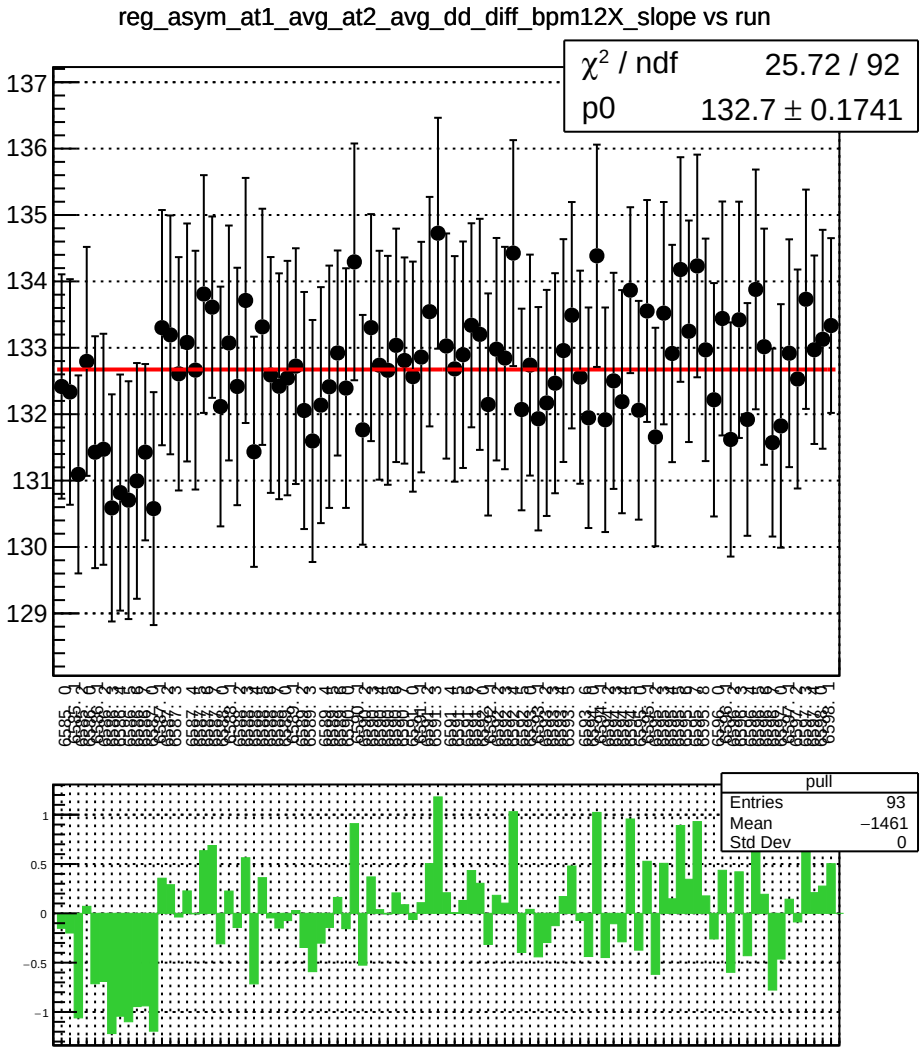

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 119.8 / 92
p0 −11.57 ± 0.06098
pull
Entries 93
Mean 870.3
Std Dev 0
pull1D
Entries 93
Mean −0.001622
Std Dev 1.135

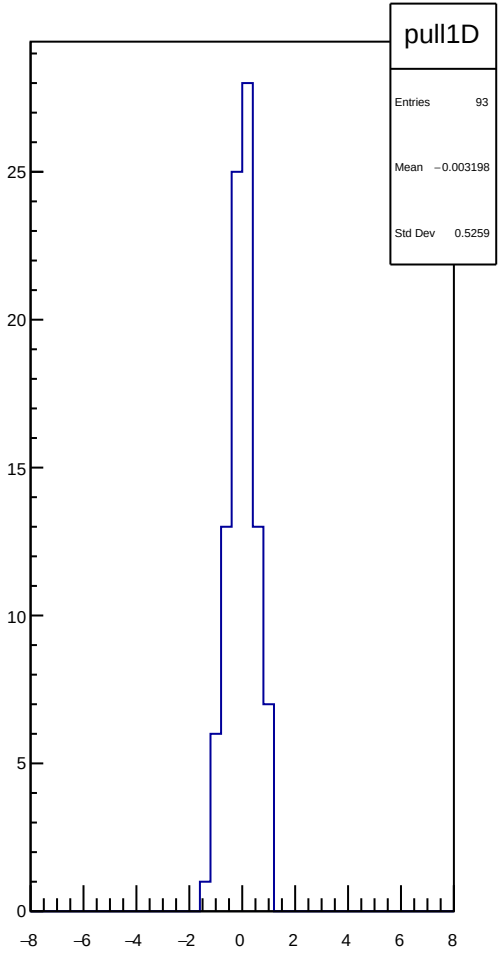

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 59.73 / 92
p0 212.5 ± 4.135
350
300
250
200
150
100
pull
Entries 93
Mean 77.25
Std Dev 52.91
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.04799
Std Dev 0.8
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

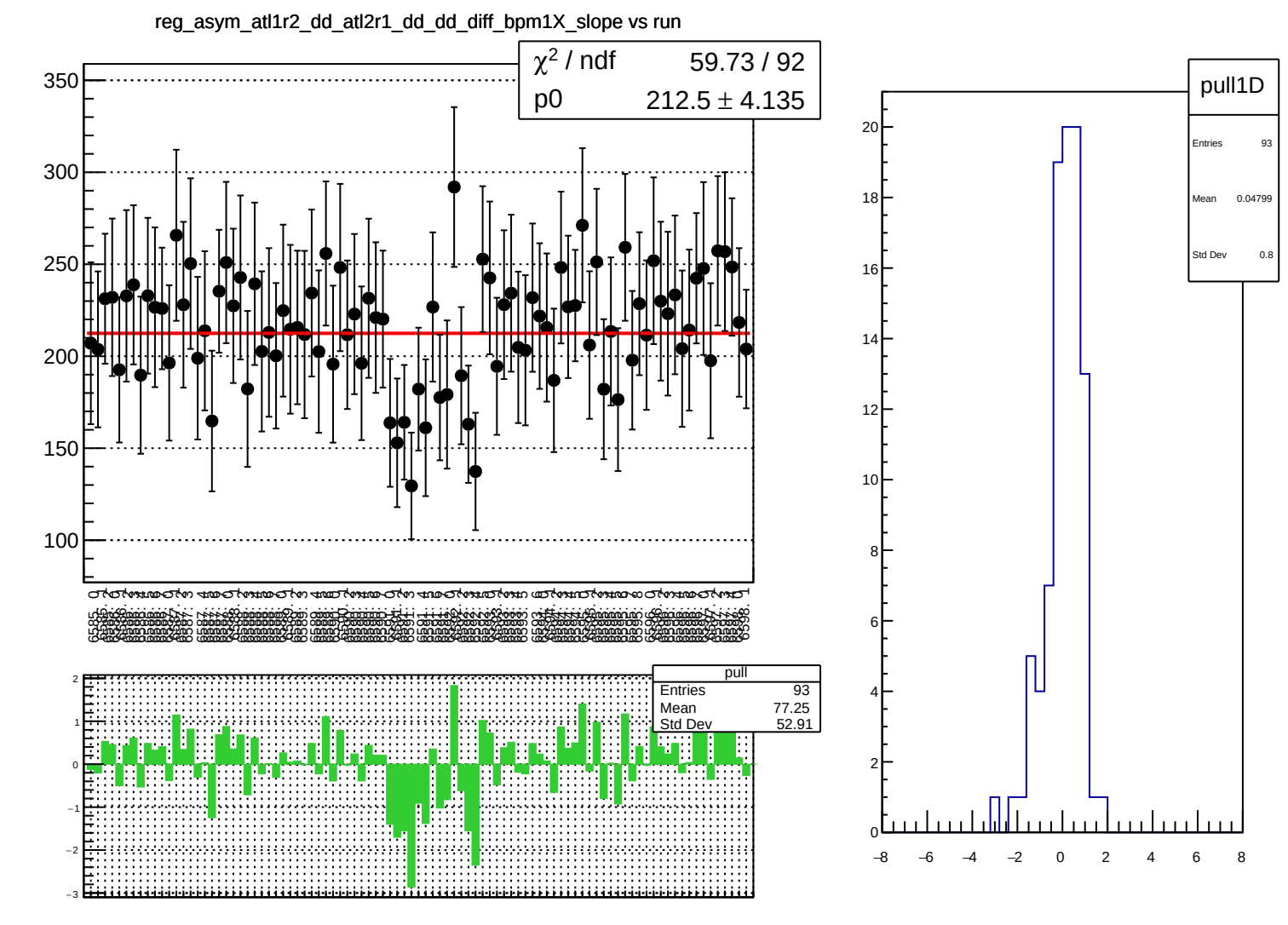

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.81 / 92
p0 −25.48 ± 3.021
50
0
−50
−100
−150
pull
Entries 93
Mean 9.772
Std Dev 66.49
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.02755
Std Dev 0.5559
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

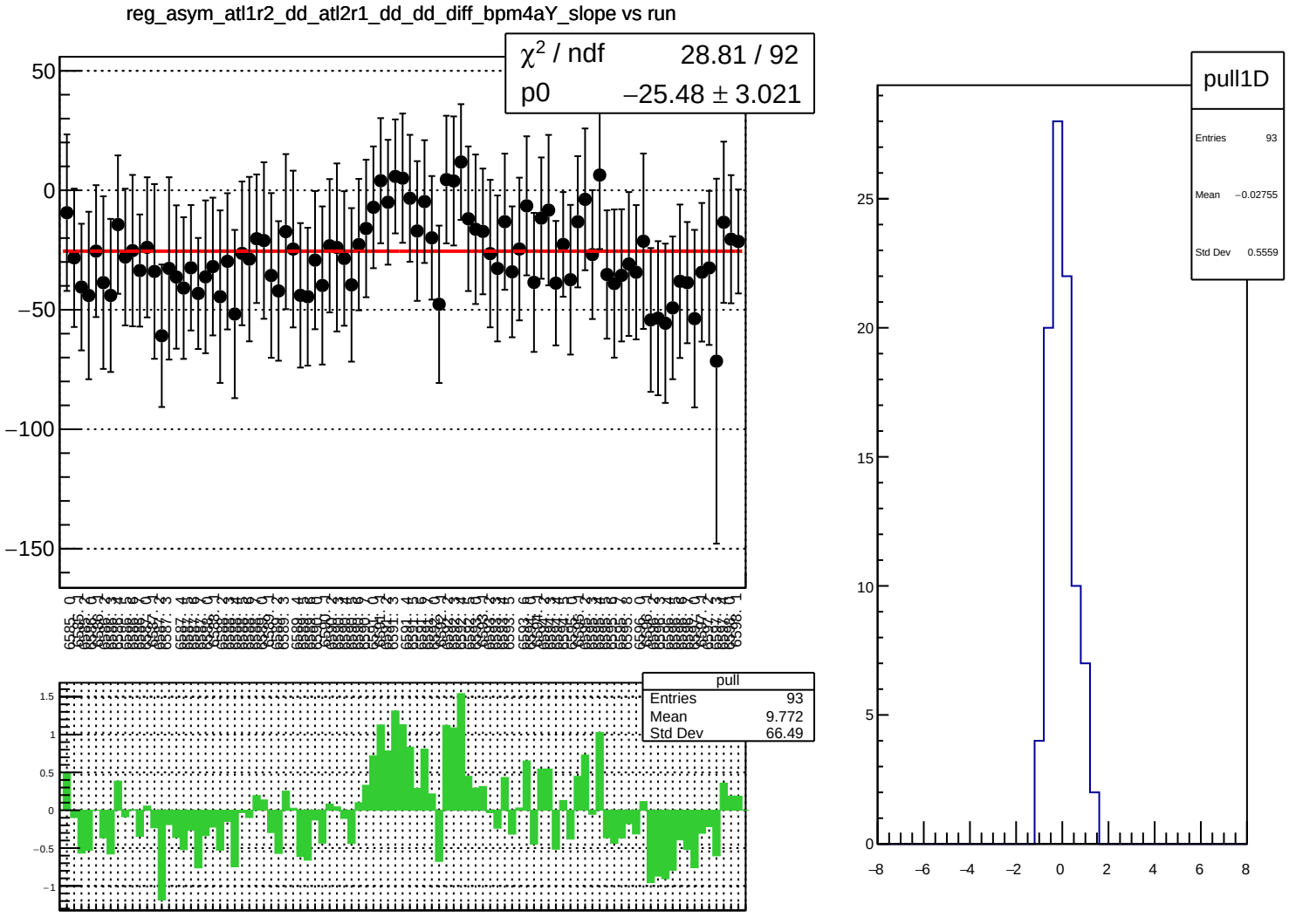

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.36 / 92
p0 −241.3 ± 4.241
−100
−150
−200
−250
−300
−350
pull
Entries 93
Mean 79.77
Std Dev 51.08
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05031
Std Dev 0.8107
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

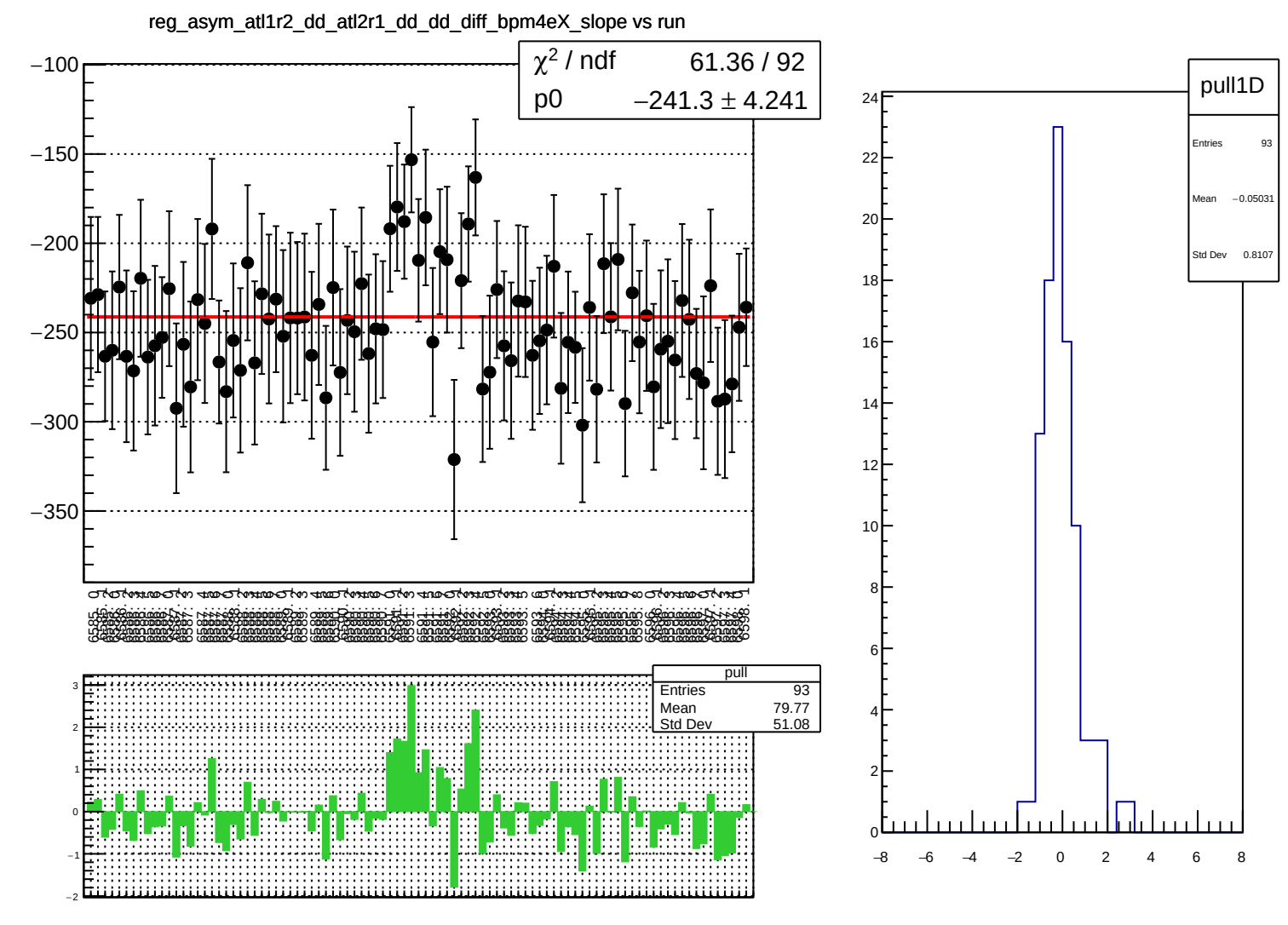

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.12 / 92
p0 −53.35 ± 3.596
pull
Entries 93
Mean −15.73
Std Dev 42.04
pull1D
Entries 93
Mean 0.03046
Std Dev 0.6224

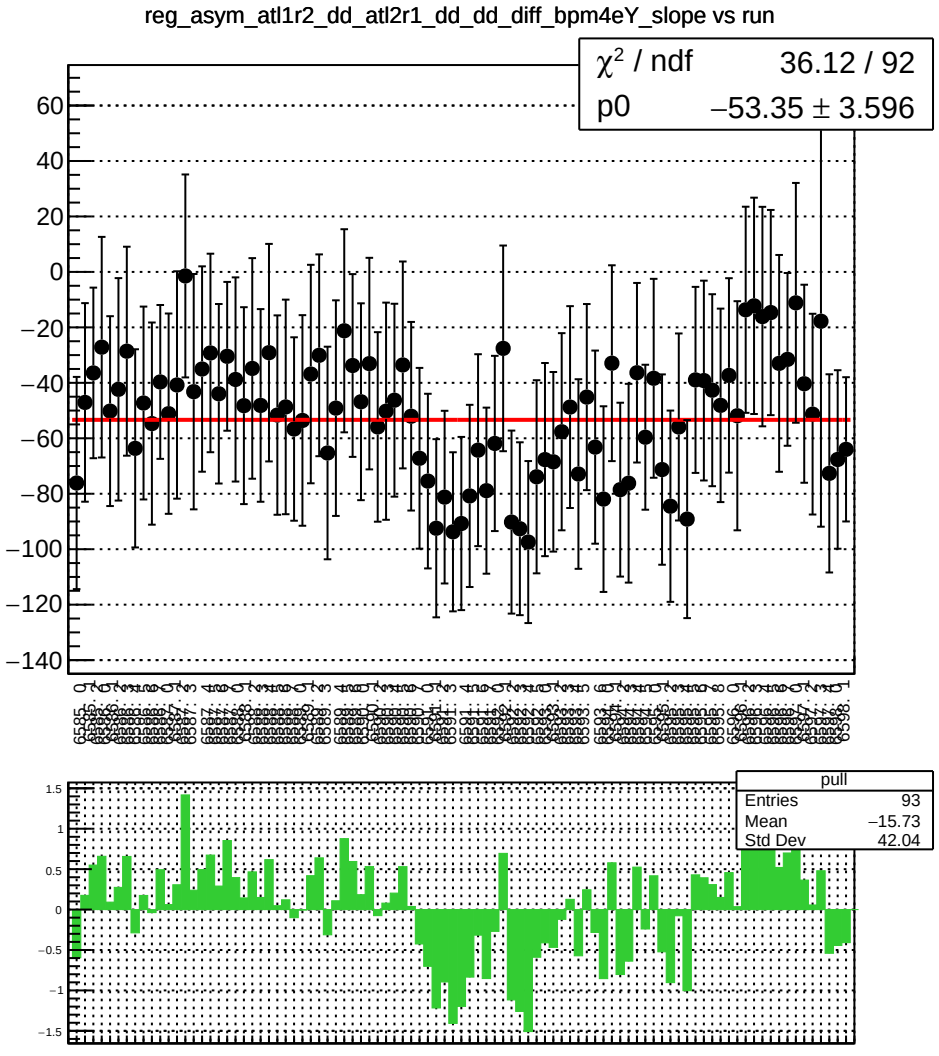

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 25.72 / 92
p0 132.7 ± 0.1741
pull
Entries 93
Mean −1461
Std Dev 0

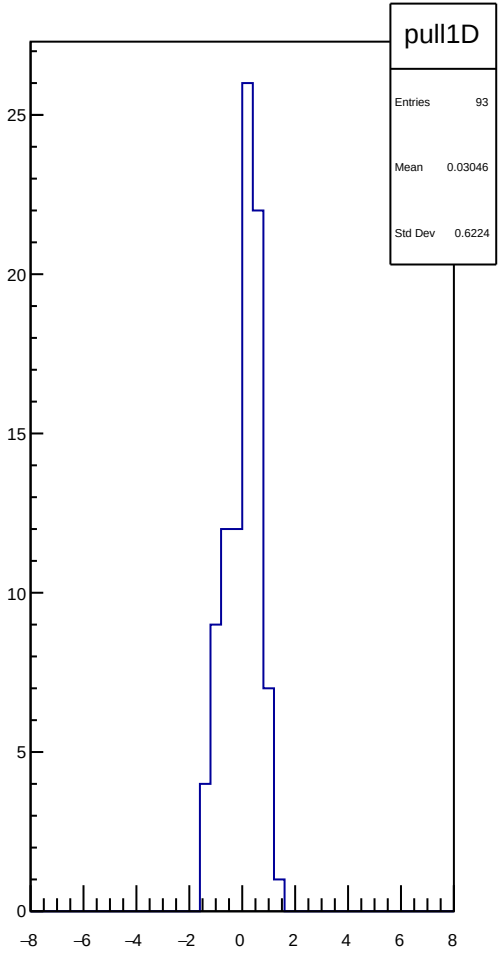

pull1D
Entries 93
Mean −0.003198
Std Dev 0.5259

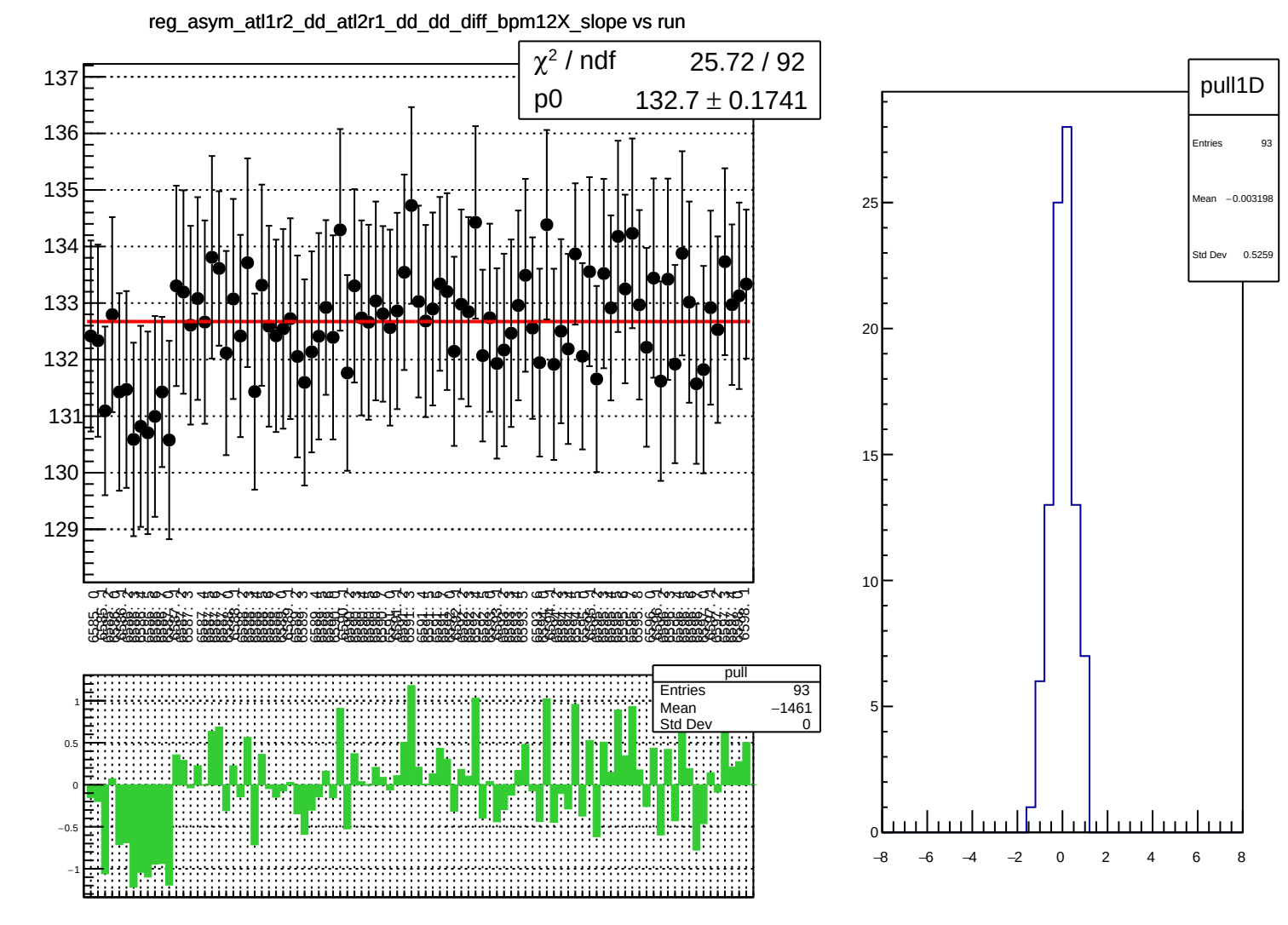

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 59.73 / 92
p0 212.5 ± 4.135
350
300
250
200
150
100
pull
Entries 93
Mean 77.25
Std Dev 52.91
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.04799
Std Dev 0.8
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

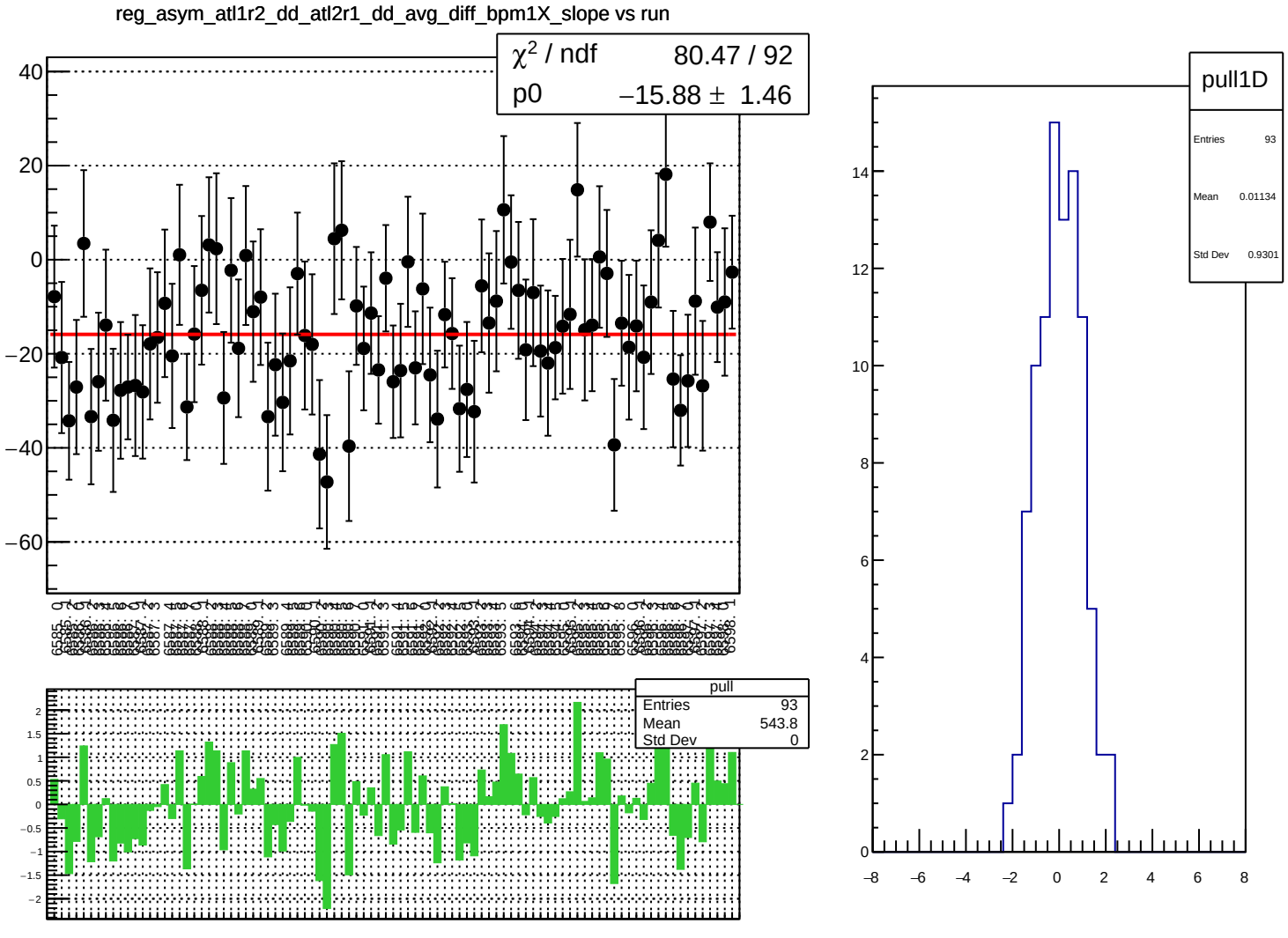

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.81 / 92
p0 −25.48 ± 3.021
50
0
−50
−100
−150
pull
Entries 93
Mean 9.772
Std Dev 66.49
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.02755
Std Dev 0.5559
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

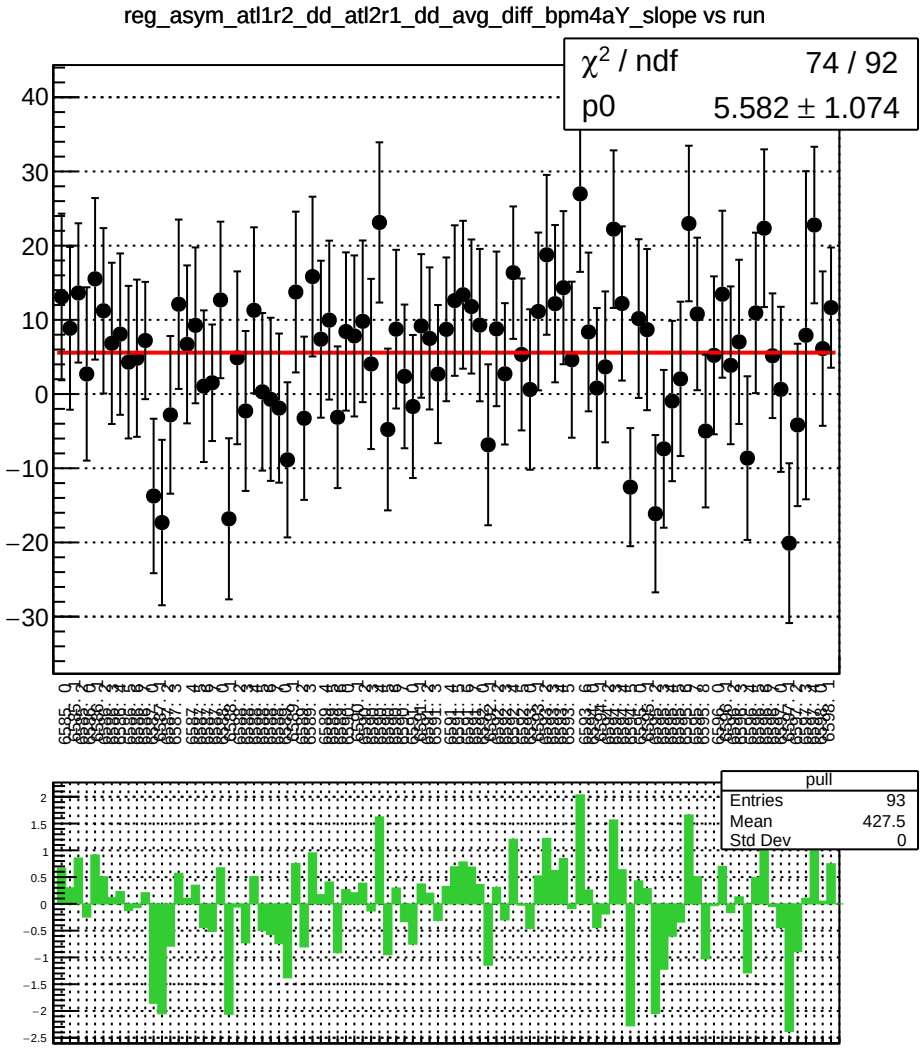

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.36 / 92
p0 −241.3 ± 4.241
pull
Entries 93
Mean 79.77
Std Dev 51.08
pull1D
Entries 93
Mean −0.05031
Std Dev 0.8107

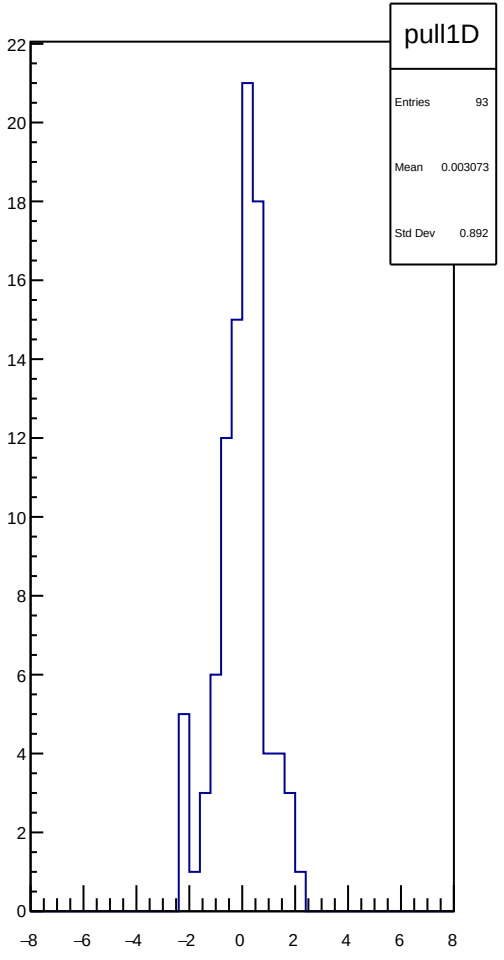

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.12 / 92
p0 −53.35 ± 3.596
pull
Entries 93
Mean −15.73
Std Dev 42.04

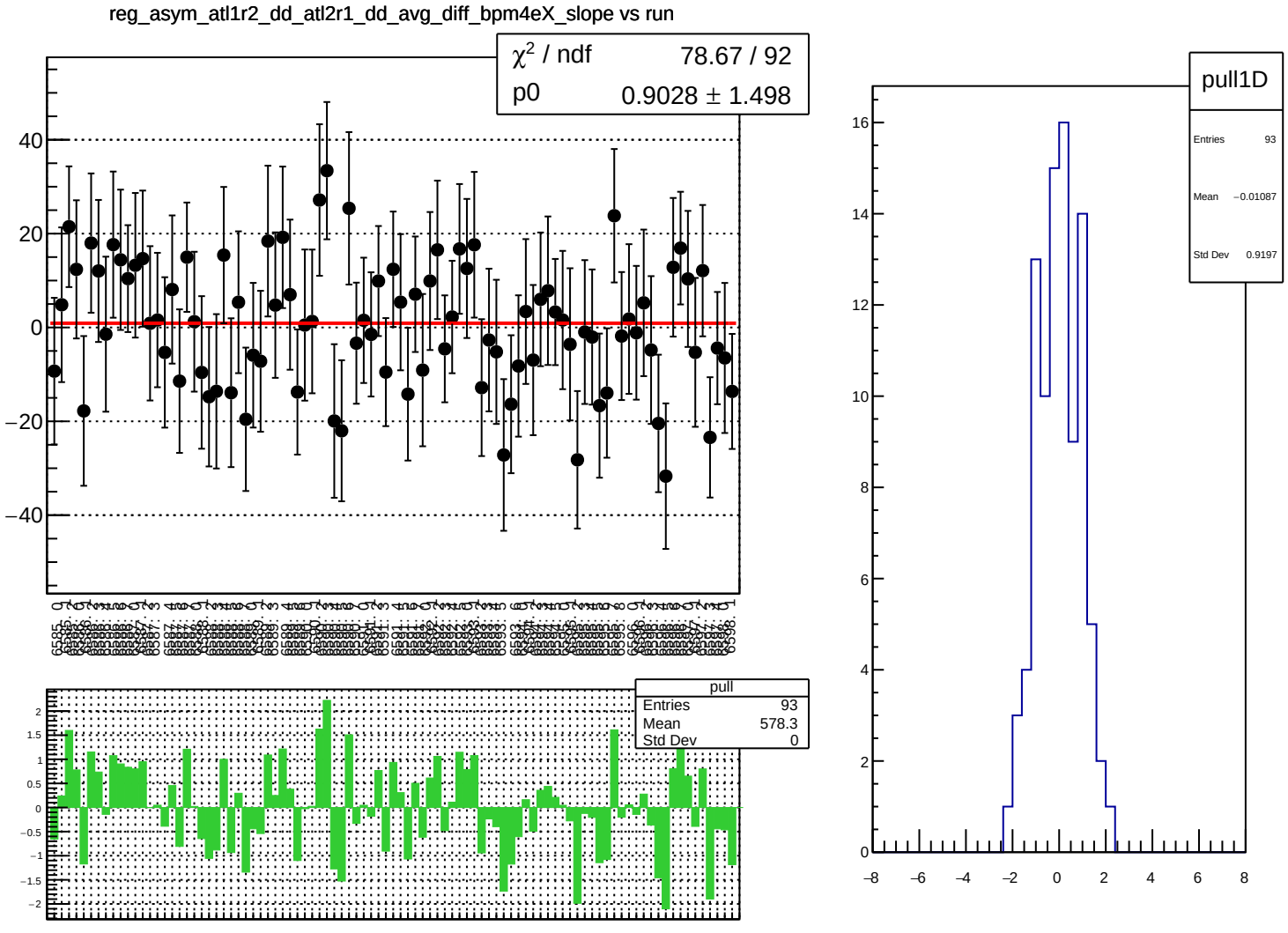

pull1D
Entries 93
Mean 0.03046
Std Dev 0.6224


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 25.72 / 92
p0 132.7 ± 0.1741
137
136
135
134
133
132
131
130
129
pull
Entries 93
Mean −1461
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.003198
Std Dev 0.5259
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 80.47 / 92
p0 −15.88 ± 1.46
pull
Entries 93
Mean 543.8
Std Dev 0
pull1D
Entries 93
Mean 0.01134
Std Dev 0.9301


reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 74 / 92
p0 5.582 ± 1.074
pull
Entries 93
Mean 427.5
Std Dev 0


pull1D
Entries 93
Mean 0.003073
Std Dev 0.892


reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 78.67 / 92
p0 0.9028 ± 1.498
40
20
0
−20
−40
pull
Entries 93
Mean 578.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01087
Std Dev 0.9197
16
14
12
10
8
6
4
2
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−4
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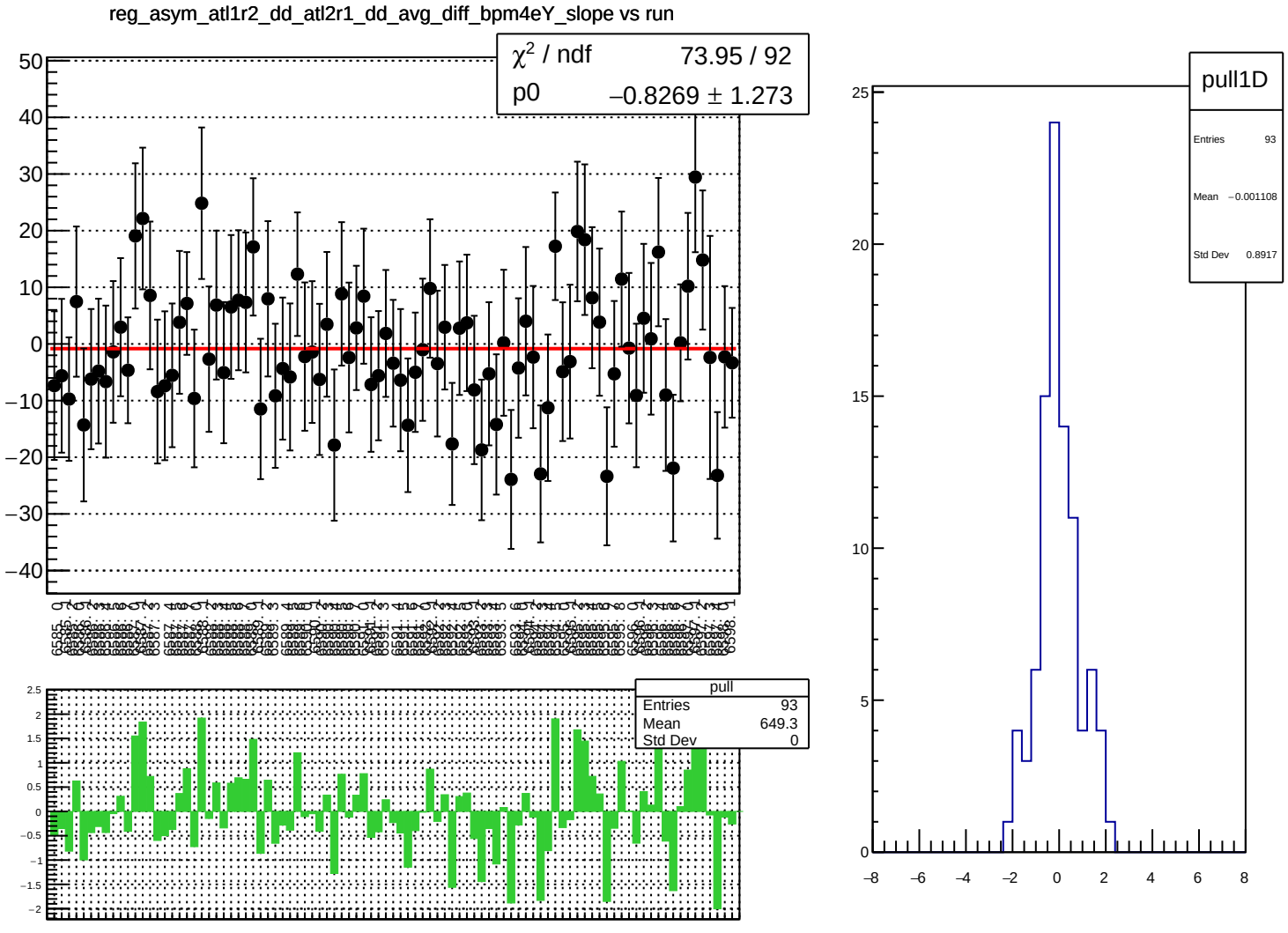
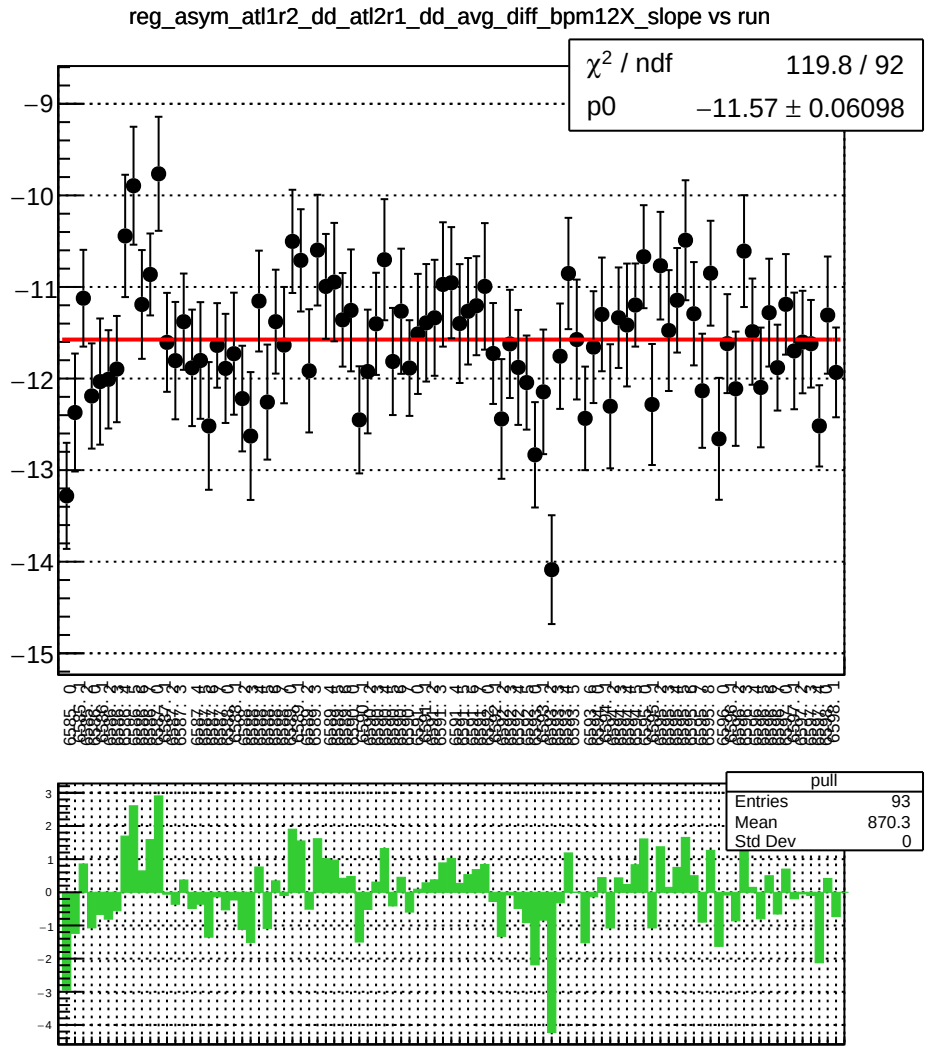
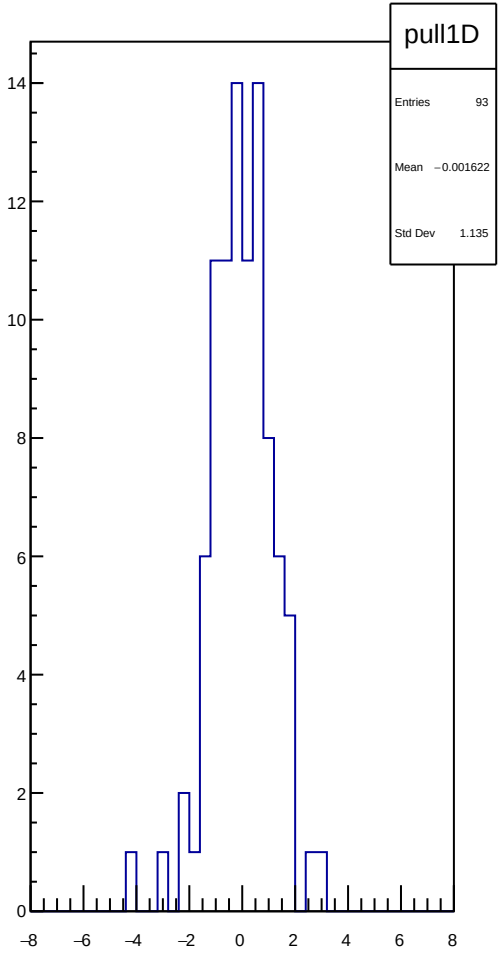
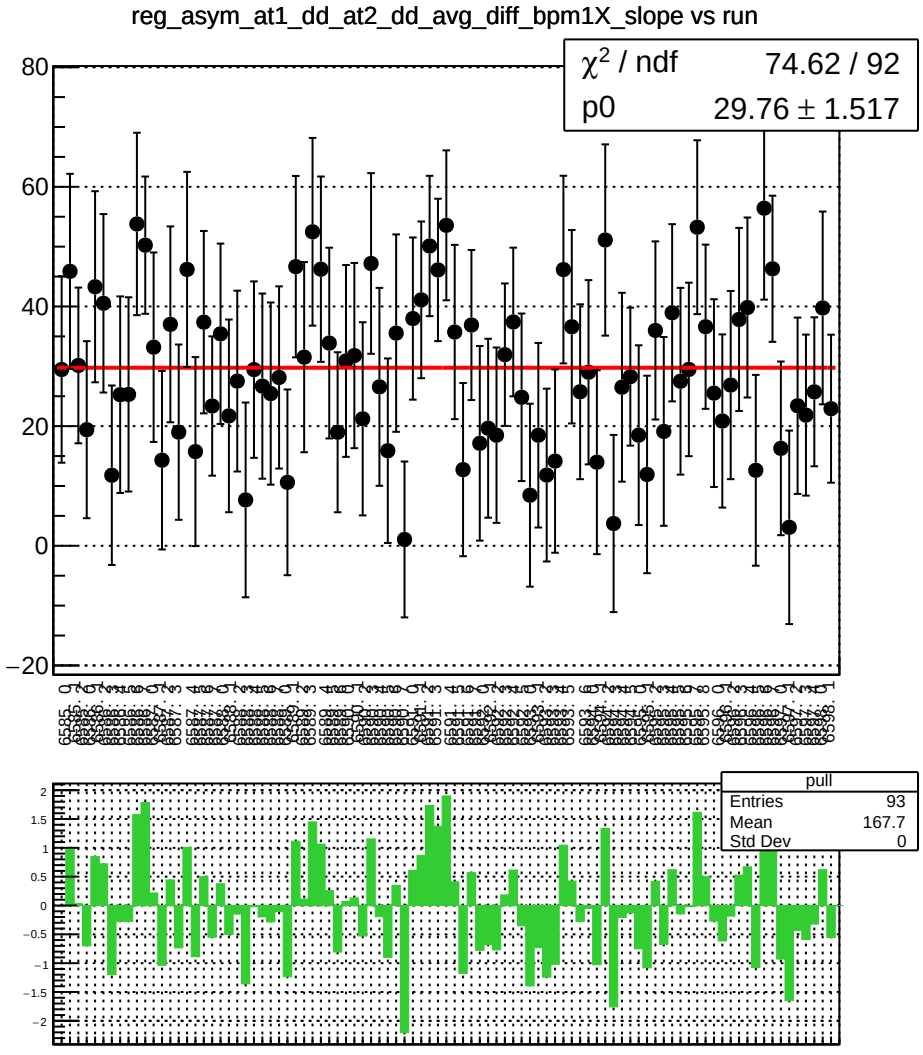
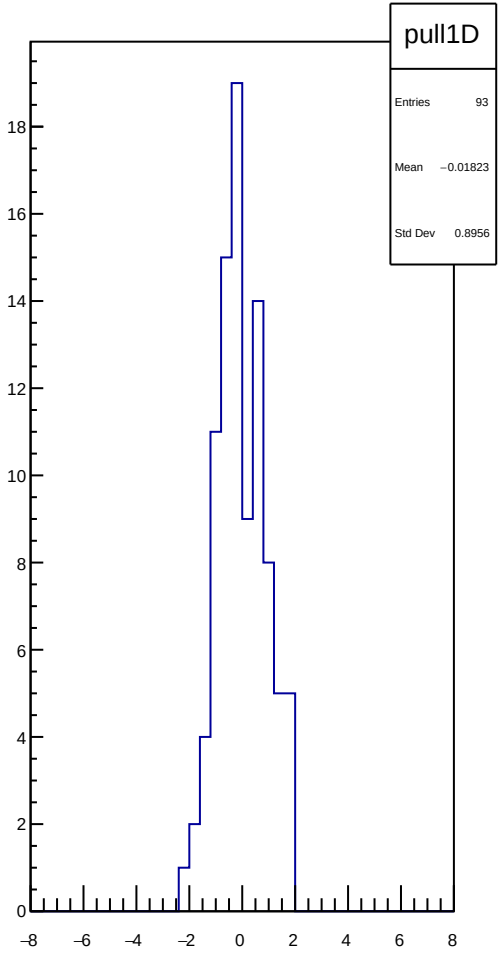
2
4
6
8

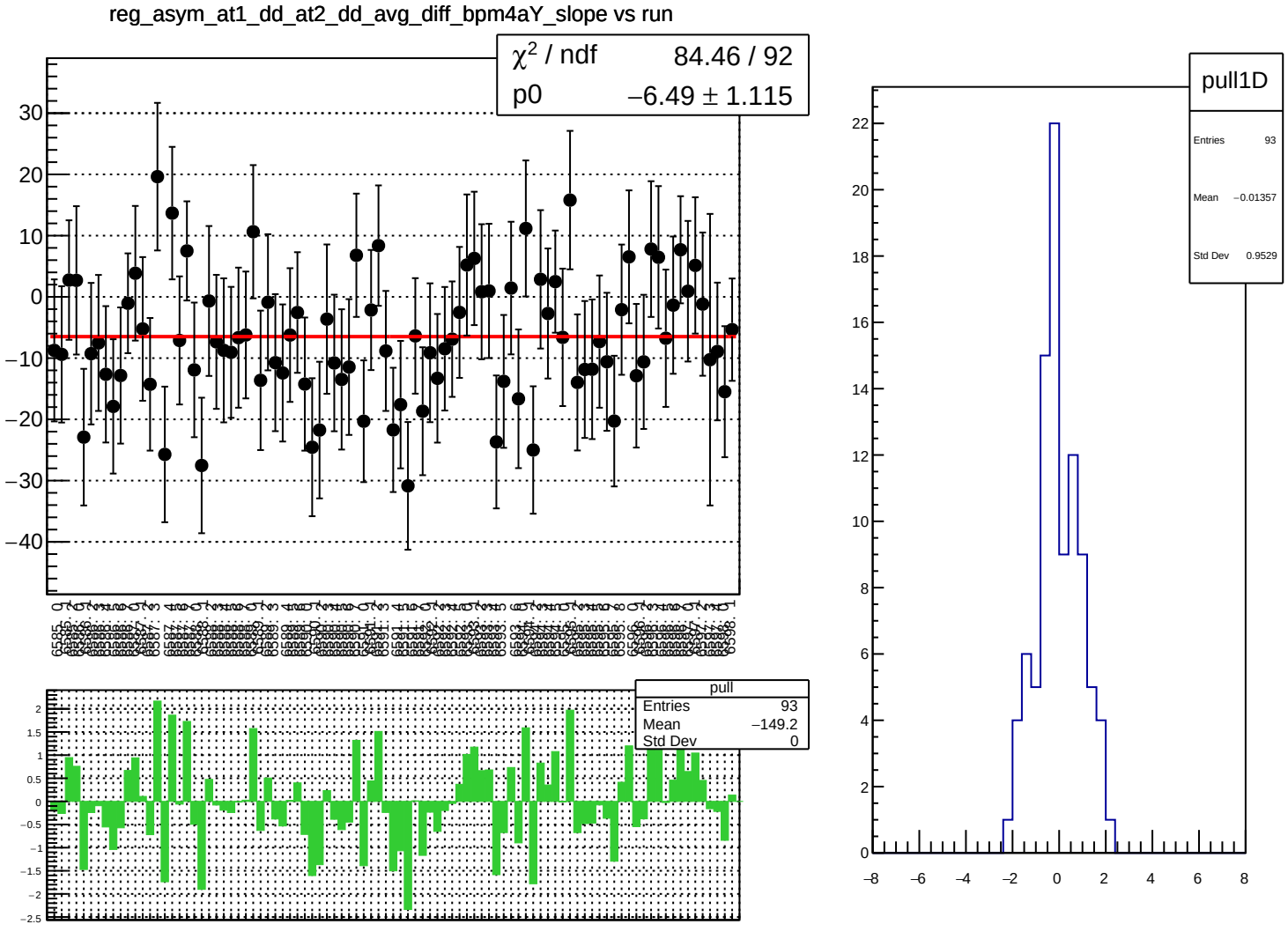

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.95 / 92
p0 −0.8269 ± 1.273
pull
Entries 93
Mean 649.3
Std Dev 0
pull1D
Entries 93
Mean −0.001108
Std Dev 0.8917

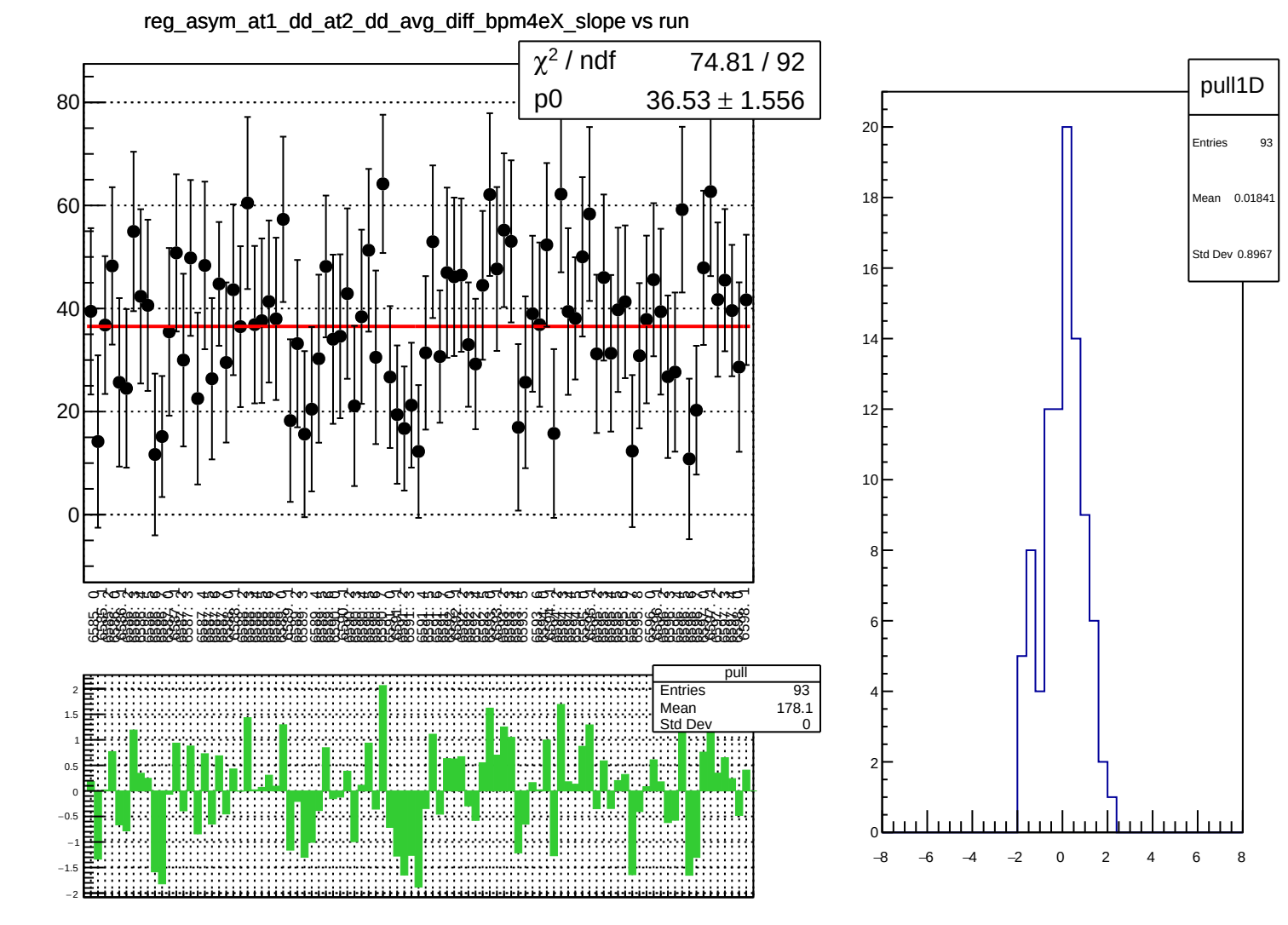

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 119.8 / 92
p0 −11.57 ± 0.06098
pull
Entries 93
Mean 870.3
Std Dev 0

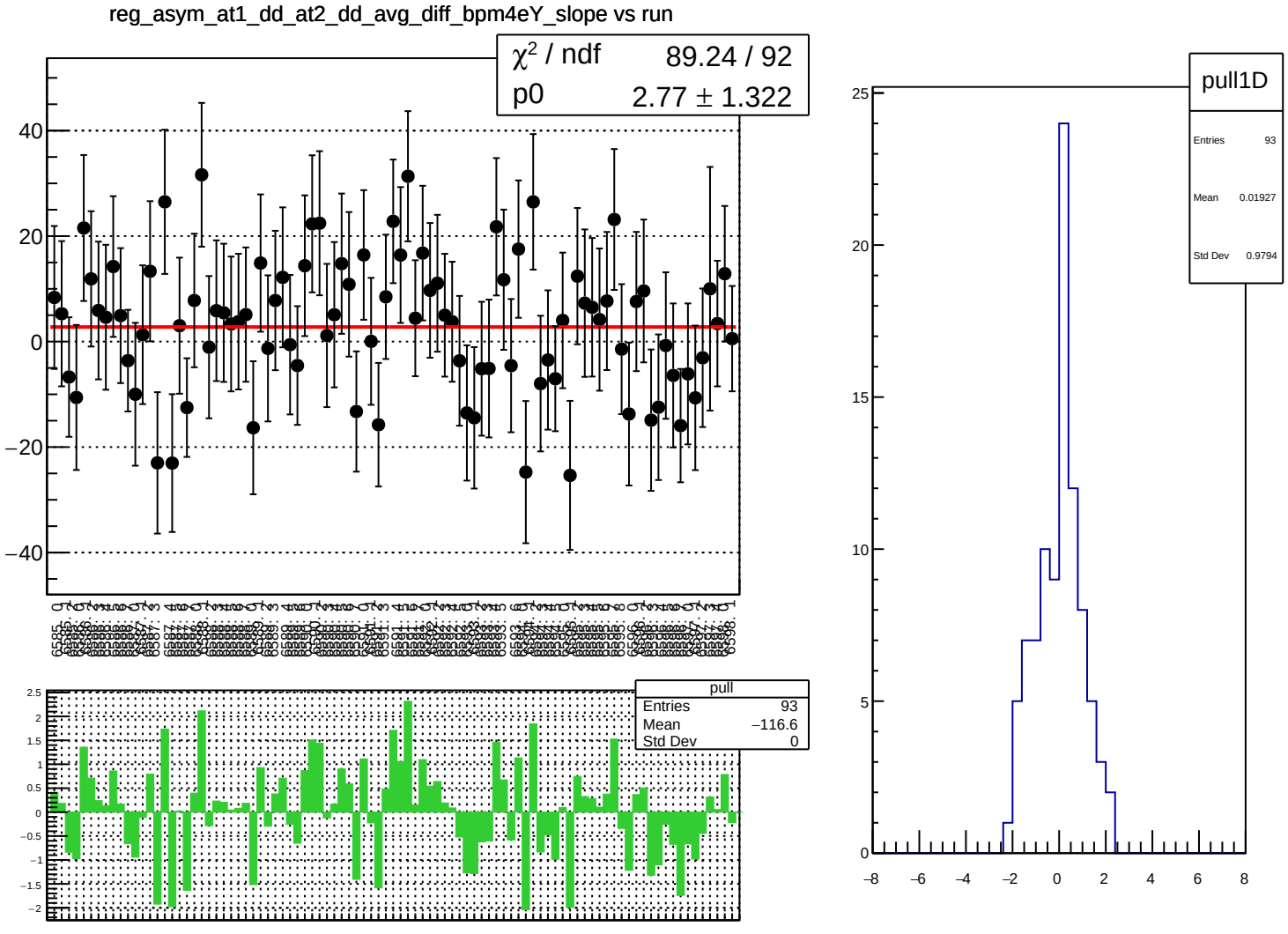

pull1D
Entries 93
Mean −0.001622
Std Dev 1.135

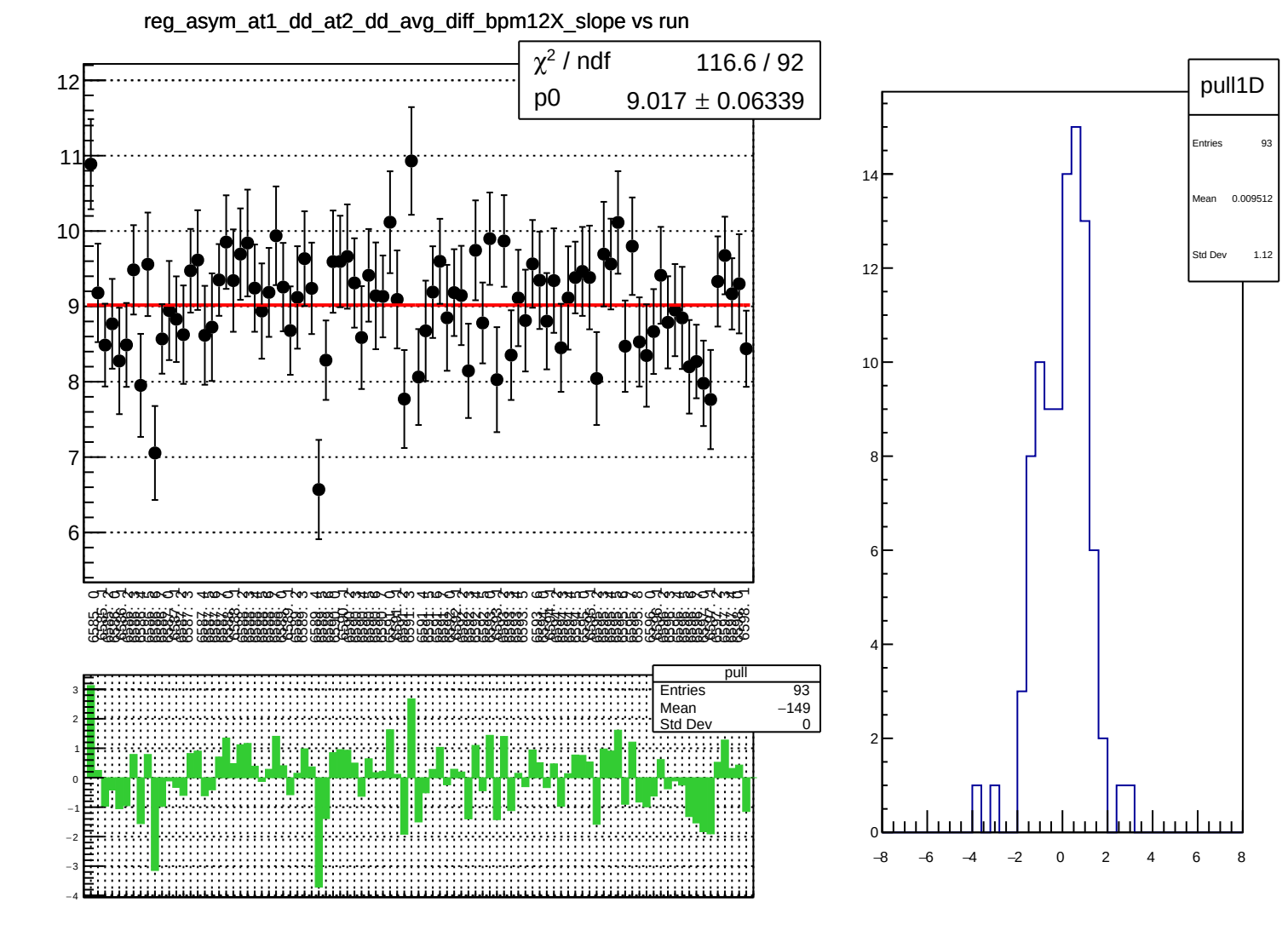

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 74.62 / 92
p0 29.76 ± 1.517
pull
Entries 93
Mean 167.7
Std Dev 0

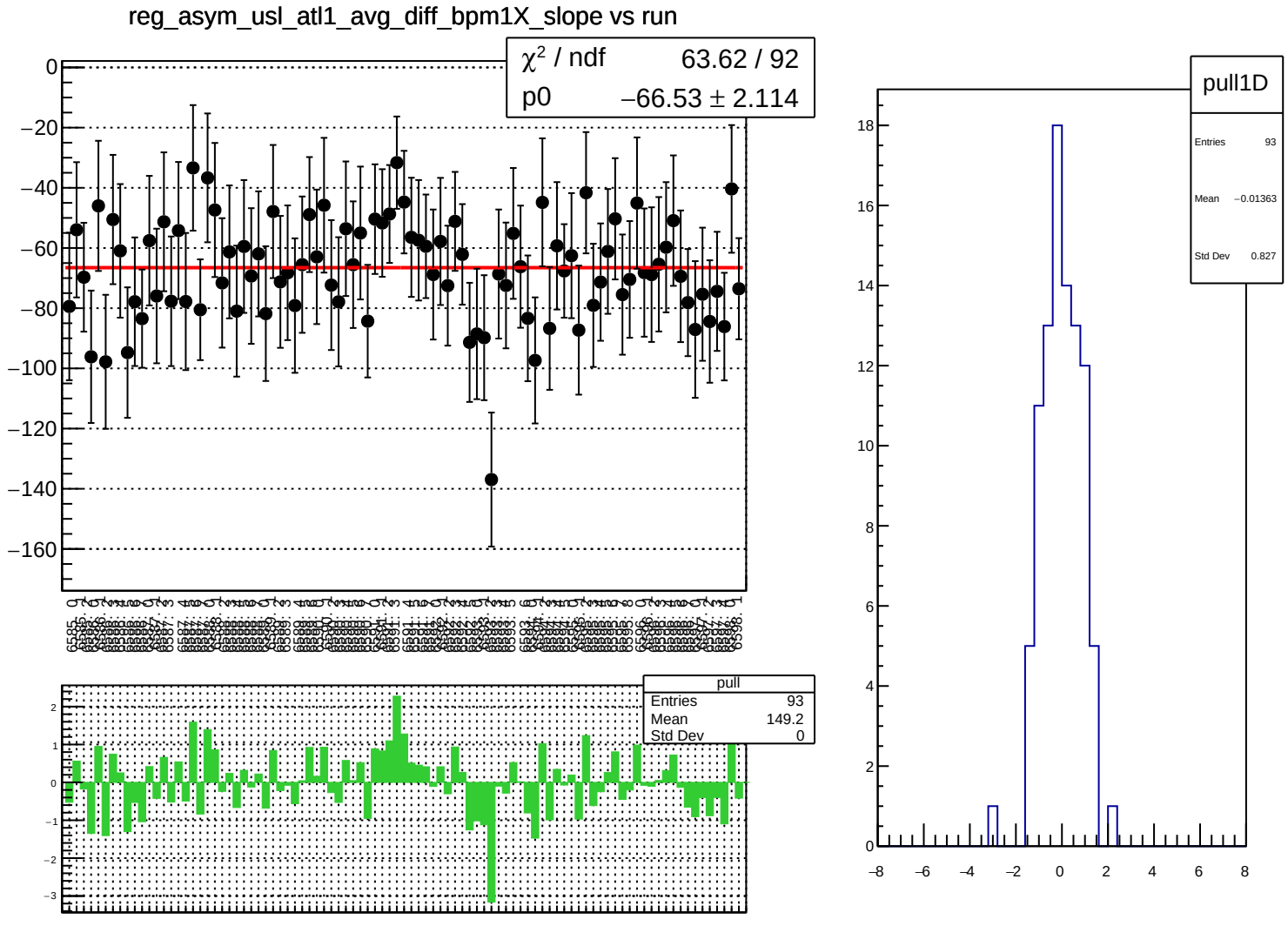

pull1D
Entries 93
Mean −0.01823
Std Dev 0.8956

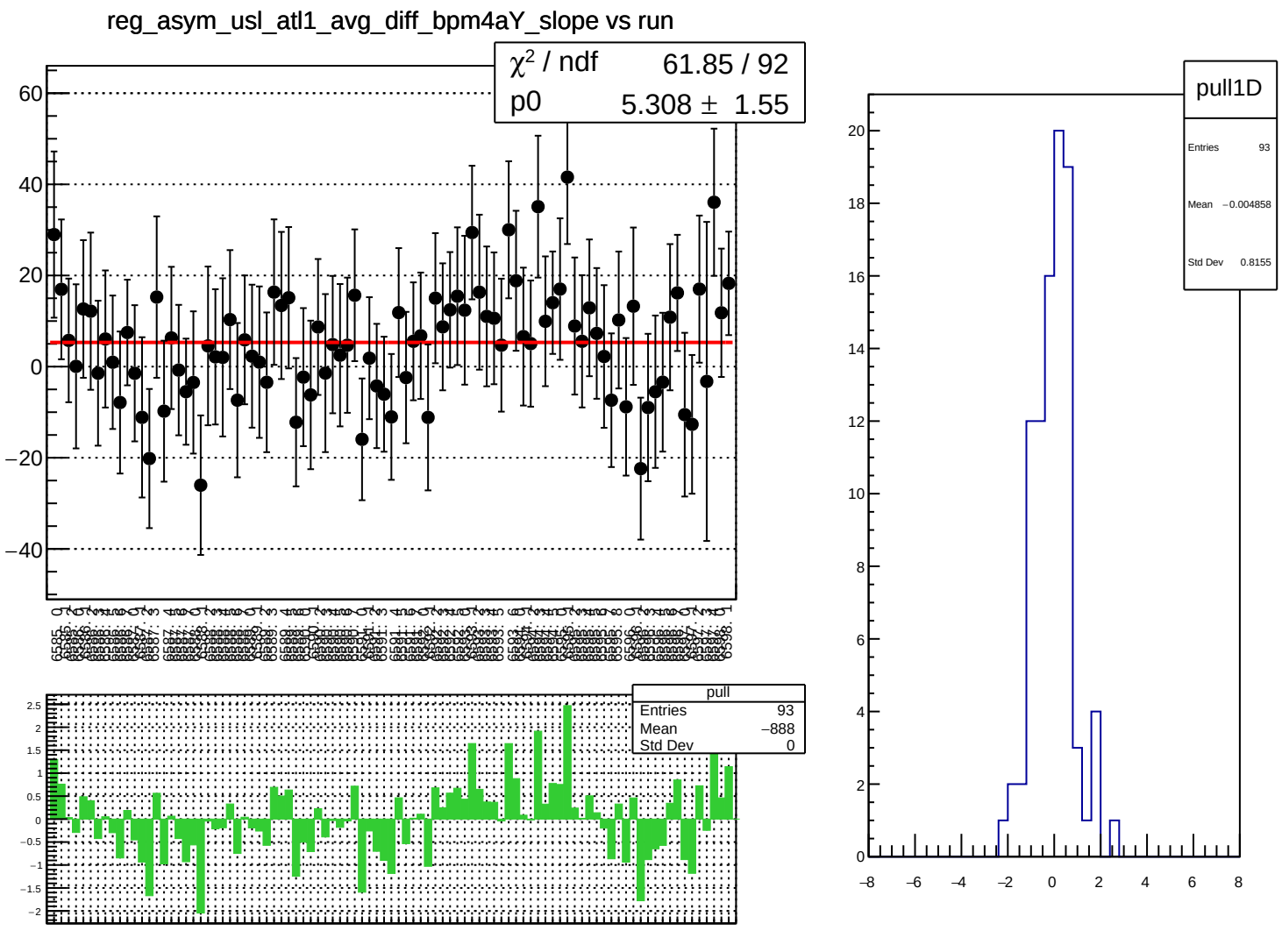

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.46 / 92
p0 −6.49 ± 1.115
pull
Entries 93
Mean −149.2
Std Dev 0
pull1D
Entries 93
Mean −0.01357
Std Dev 0.9529

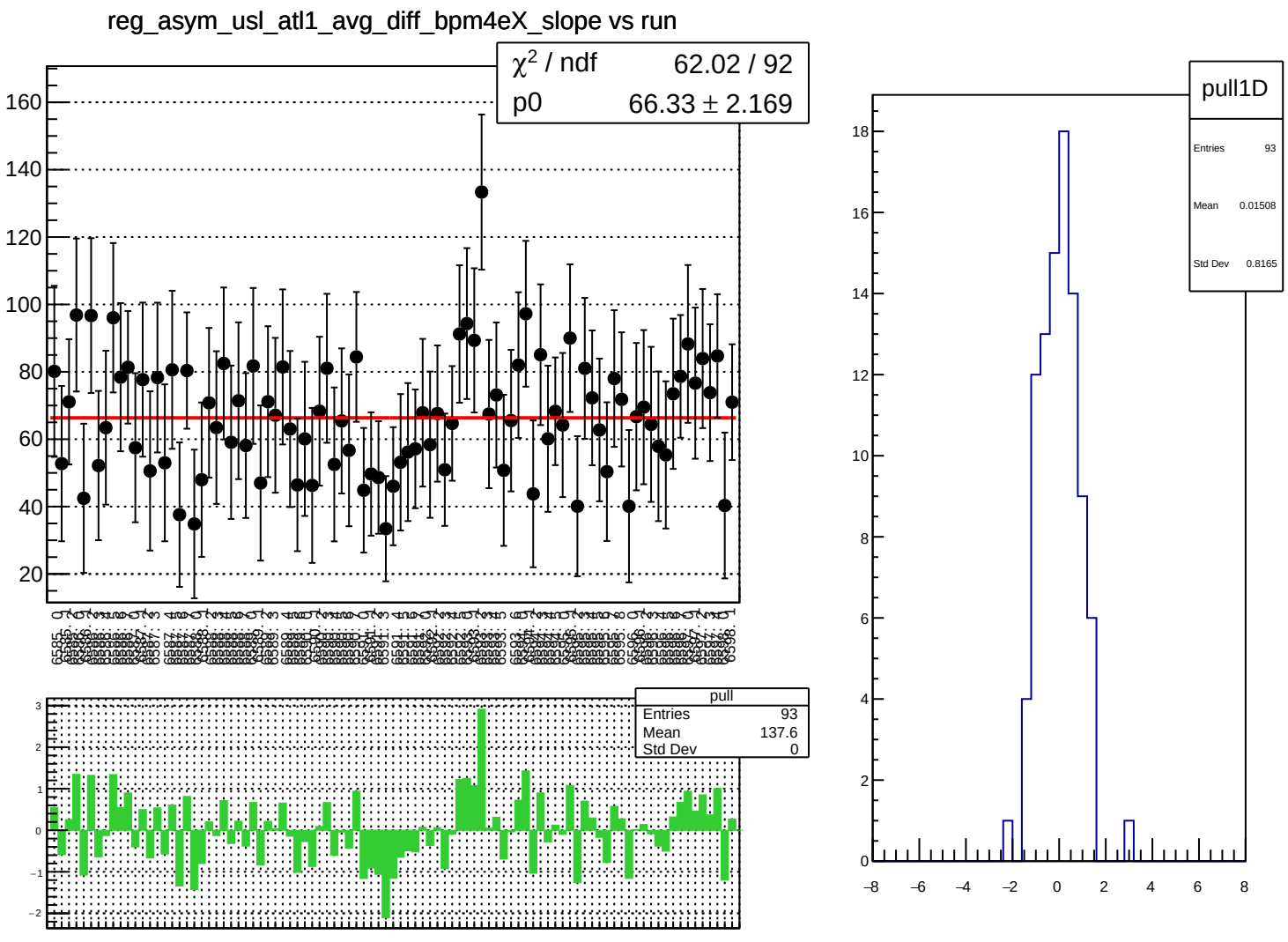

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.81 / 92
p0 36.53 ± 1.556
pull
Entries 93
Mean 178.1
Std Dev 0
pull1D
Entries 93
Mean 0.01841
Std Dev 0.8967

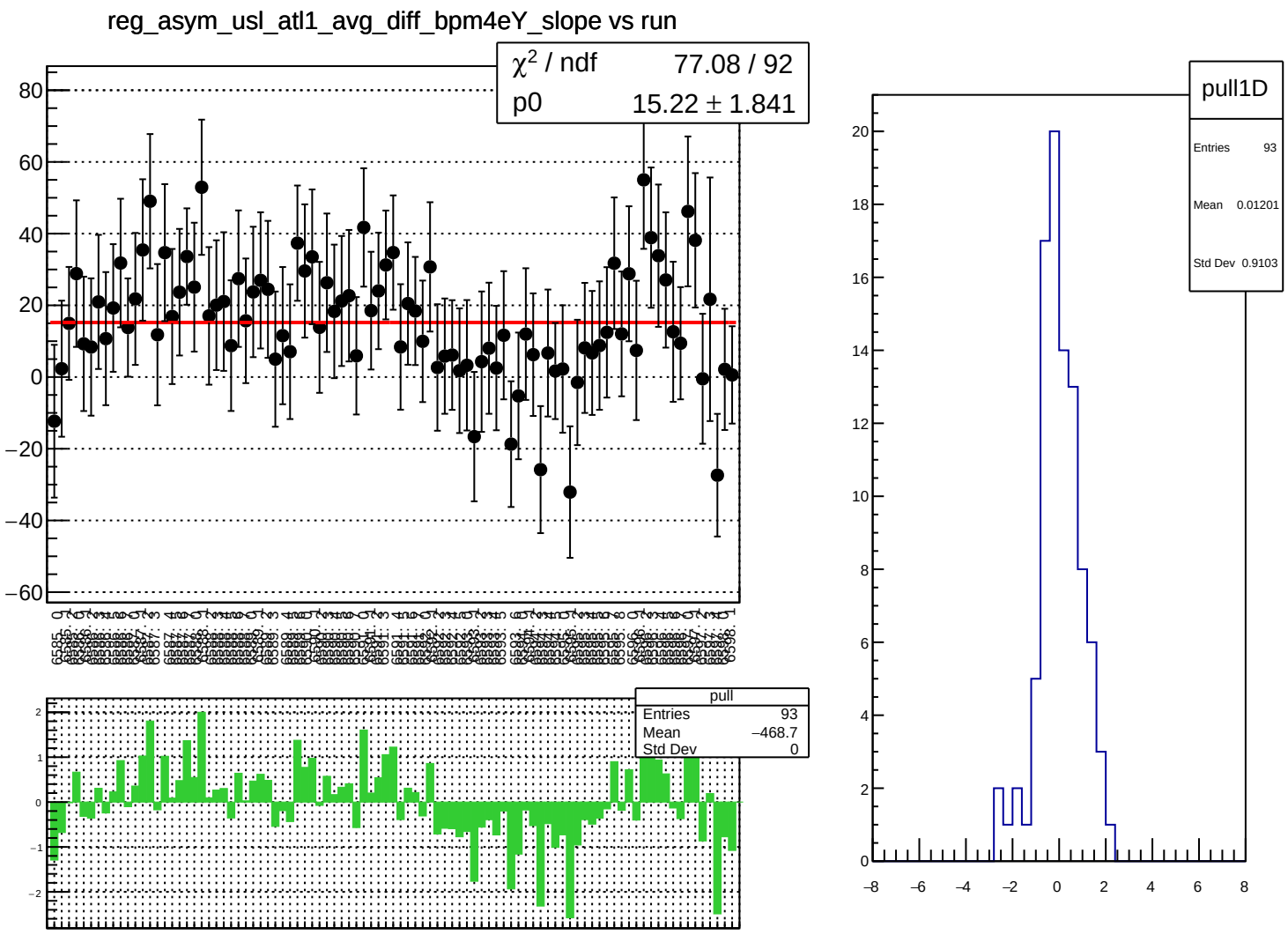

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.24 / 92
p0 2.77 ± 1.322
40
20
0
−20
−40
pull
Entries 93
Mean −116.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.01927
Std Dev 0.9794
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

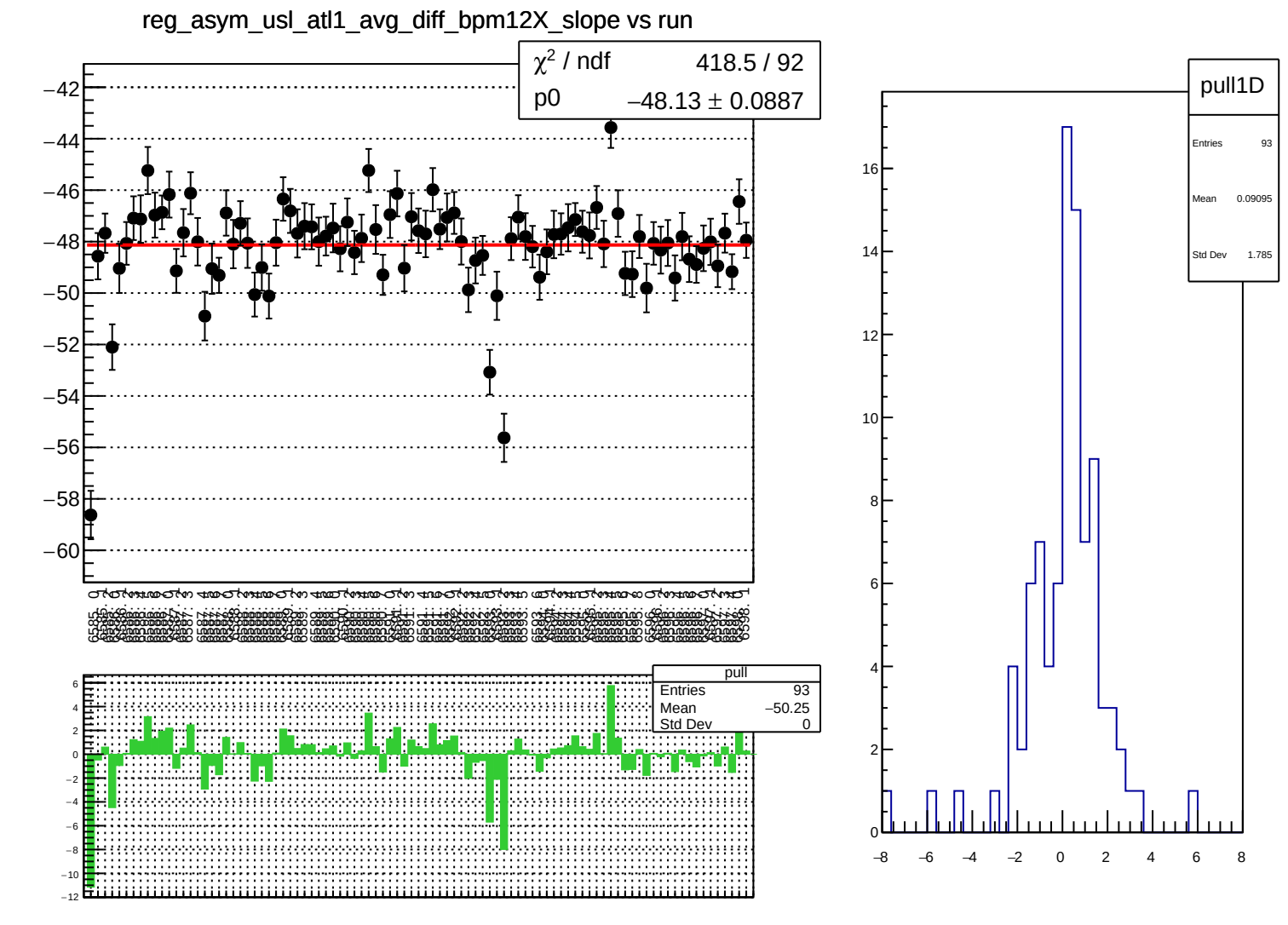

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 116.6 / 92
p0 9.017 ± 0.06339
pull
Entries 93
Mean −149
Std Dev 0
pull1D
Entries 93
Mean 0.009512
Std Dev 1.12

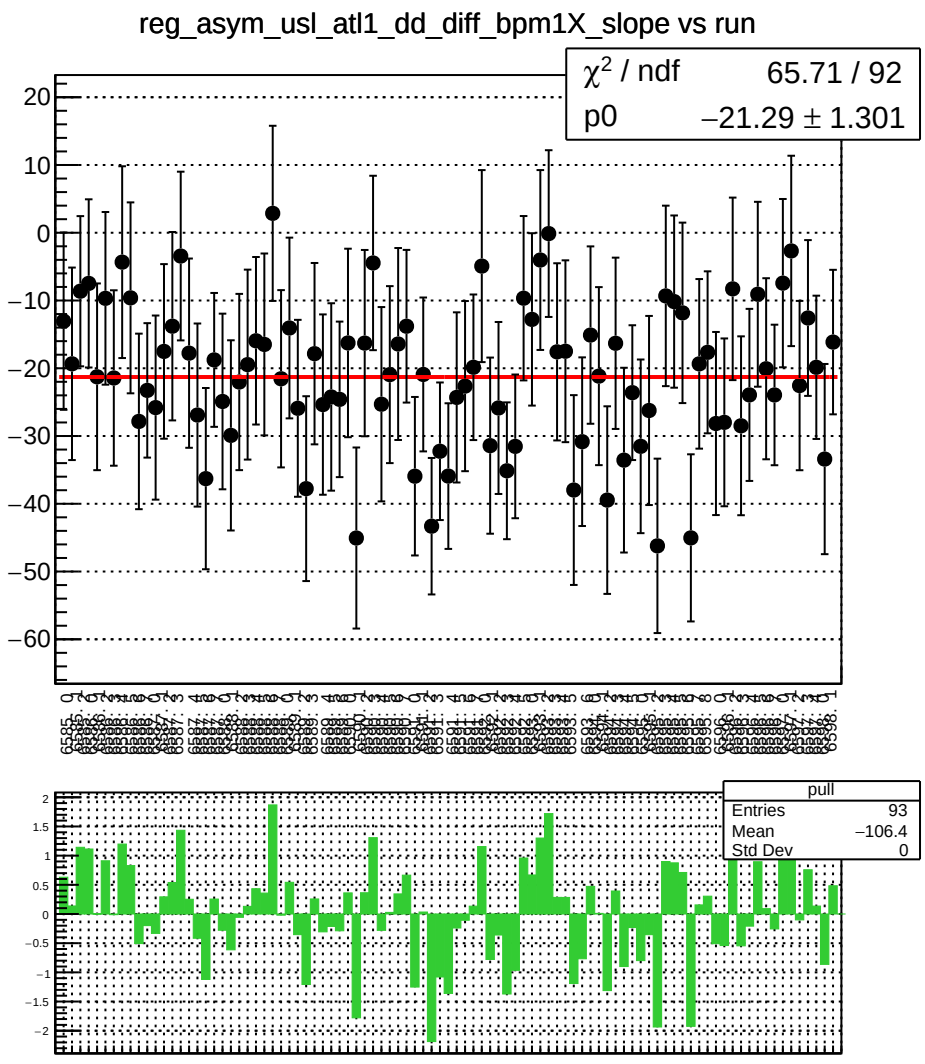

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 63.62 / 92
p0 −66.53 ± 2.114
pull
Entries 93
Mean 149.2
Std Dev 0
pull1D
Entries 93
Mean −0.01363
Std Dev 0.827

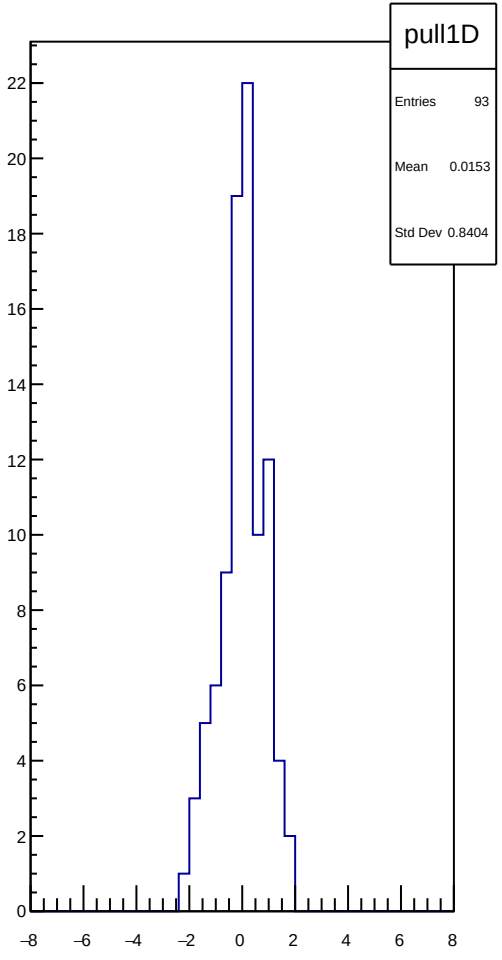

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.85 / 92
p0 5.308 ± 1.55
pull
Entries 93
Mean −888
Std Dev 0
pull1D
Entries 93
Mean −0.004858
Std Dev 0.8155

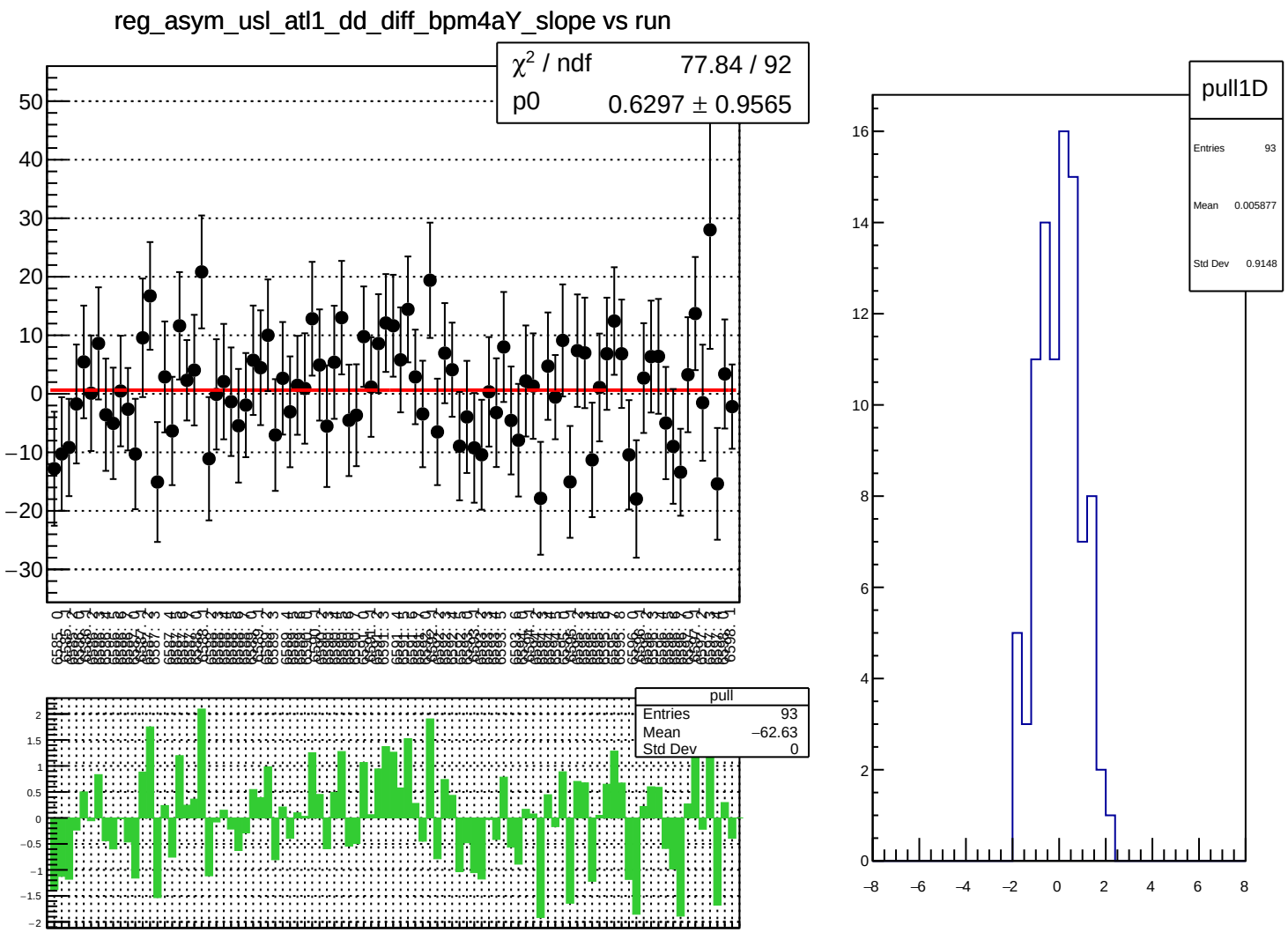

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.02 / 92
p0 66.33 ± 2.169
pull
Entries 93
Mean 137.6
Std Dev 0
pull1D
Entries 93
Mean 0.01508
Std Dev 0.8165

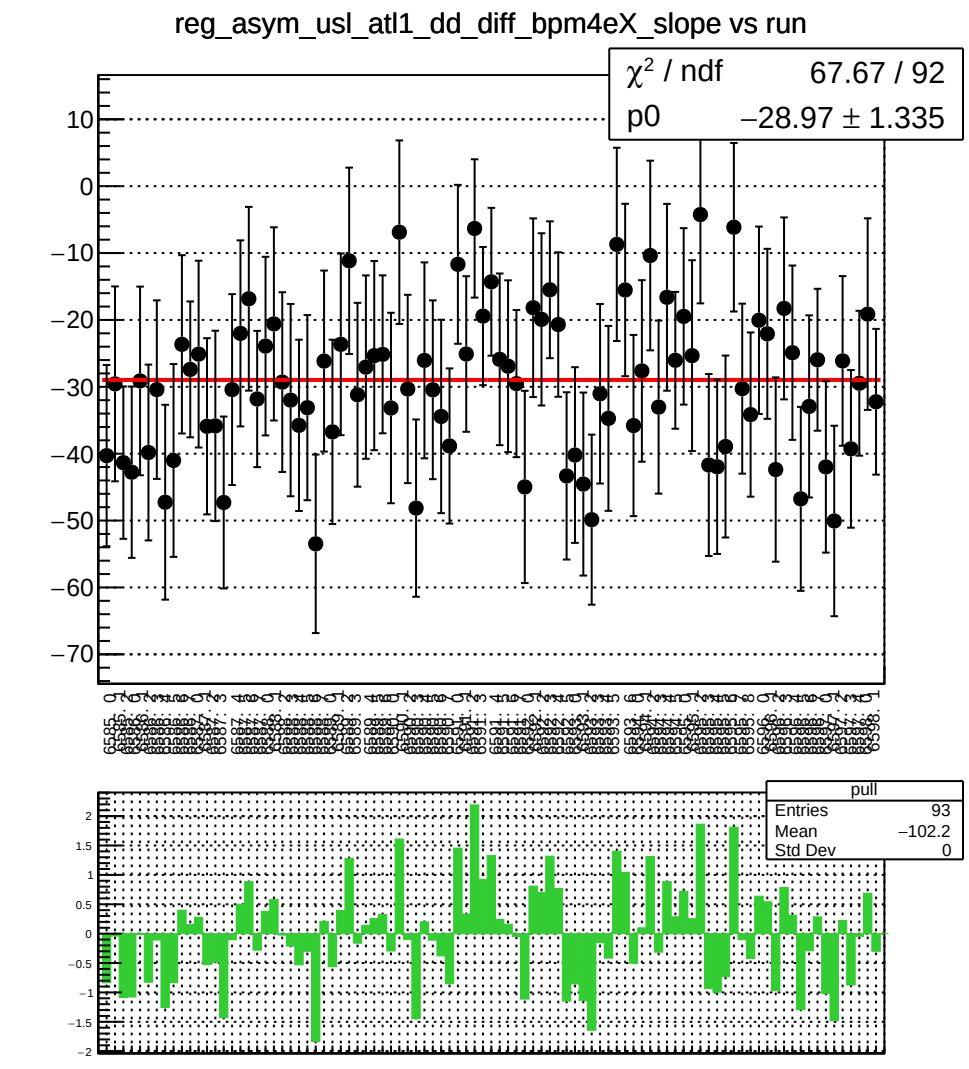

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.08 / 92
p0 15.22 ± 1.841
pull
Entries 93
Mean −468.7
Std Dev 0
pull1D
Entries 93
Mean 0.01201
Std Dev 0.9103

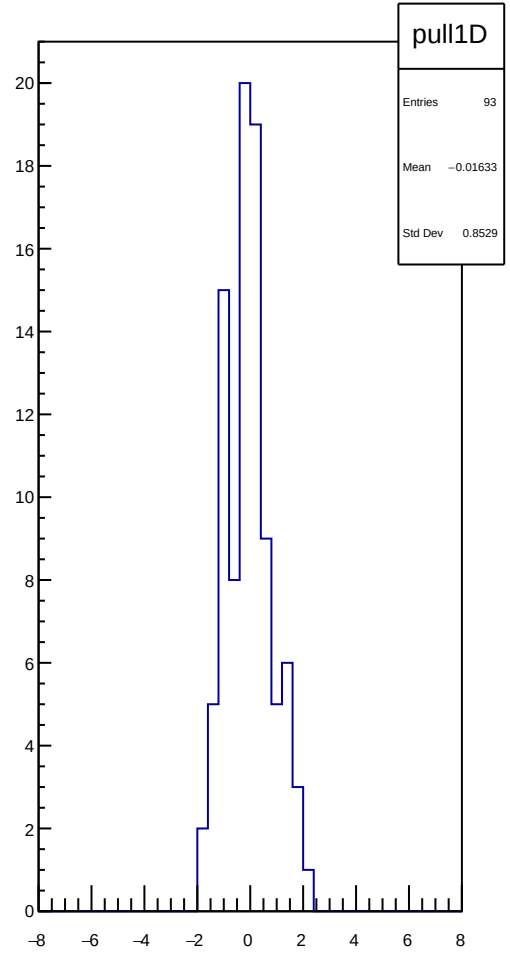

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 418.5 / 92
p0 −48.13 ± 0.0887
pull
Entries 93
Mean −50.25
Std Dev 0
pull1D
Entries 93
Mean 0.09095
Std Dev 1.785

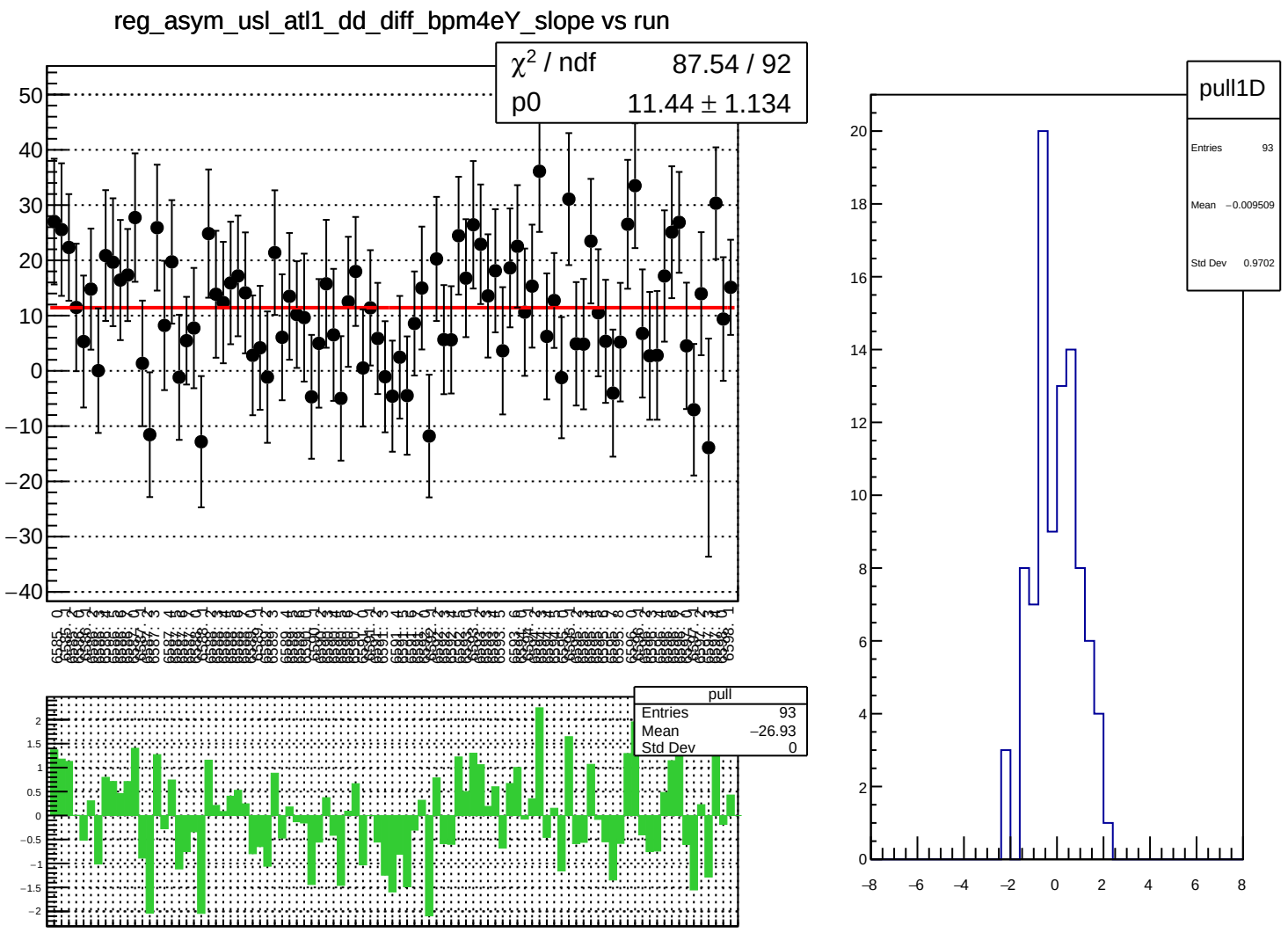

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 65.71 / 92
p0 −21.29 ± 1.301
pull
Entries 93
Mean −106.4
Std Dev 0

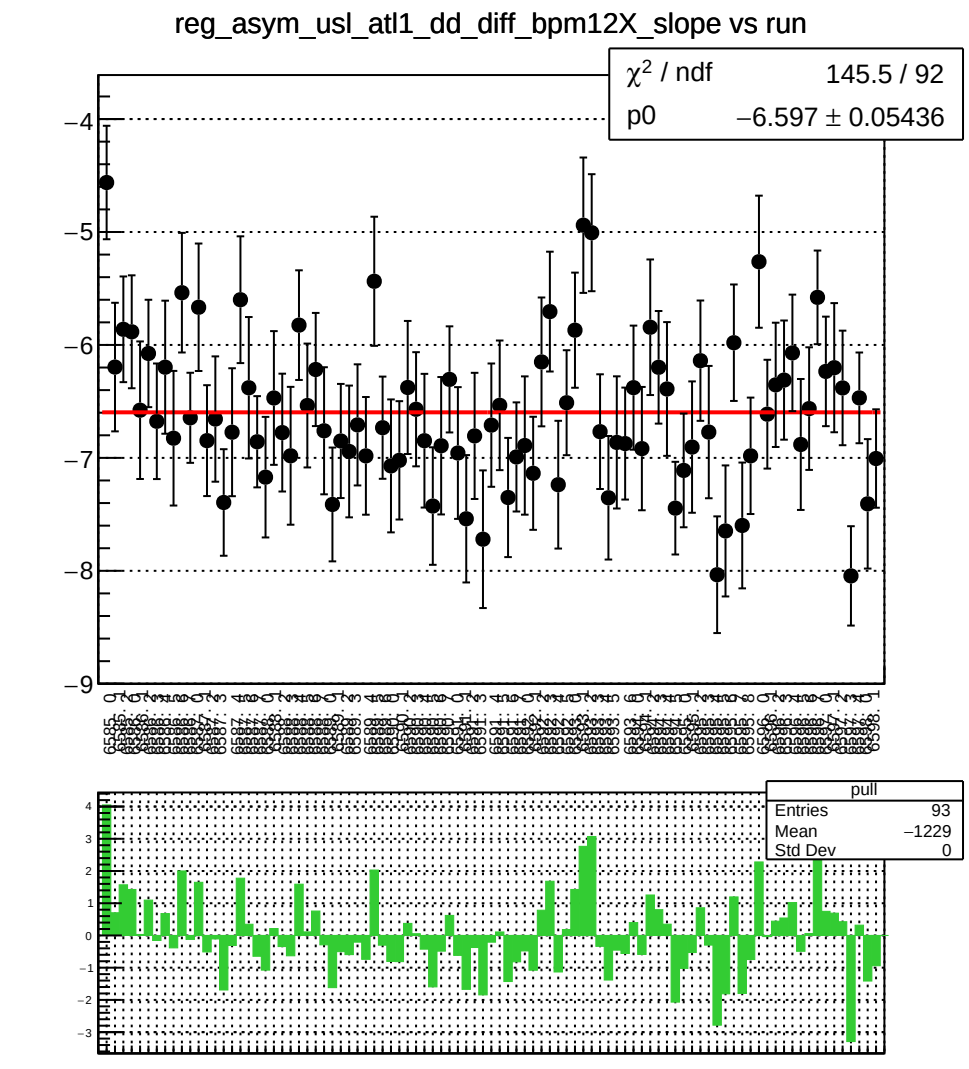

pull1D
Entries 93
Mean 0.0153
Std Dev 0.8404

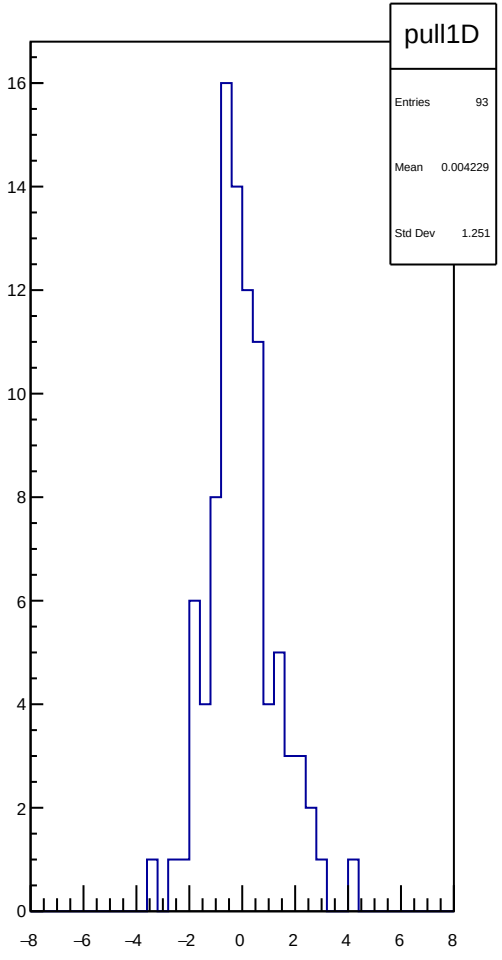

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.84 / 92
p0 0.6297 ± 0.9565
pull
Entries 93
Mean −62.63
Std Dev 0
pull1D
Entries 93
Mean 0.005877
Std Dev 0.9148

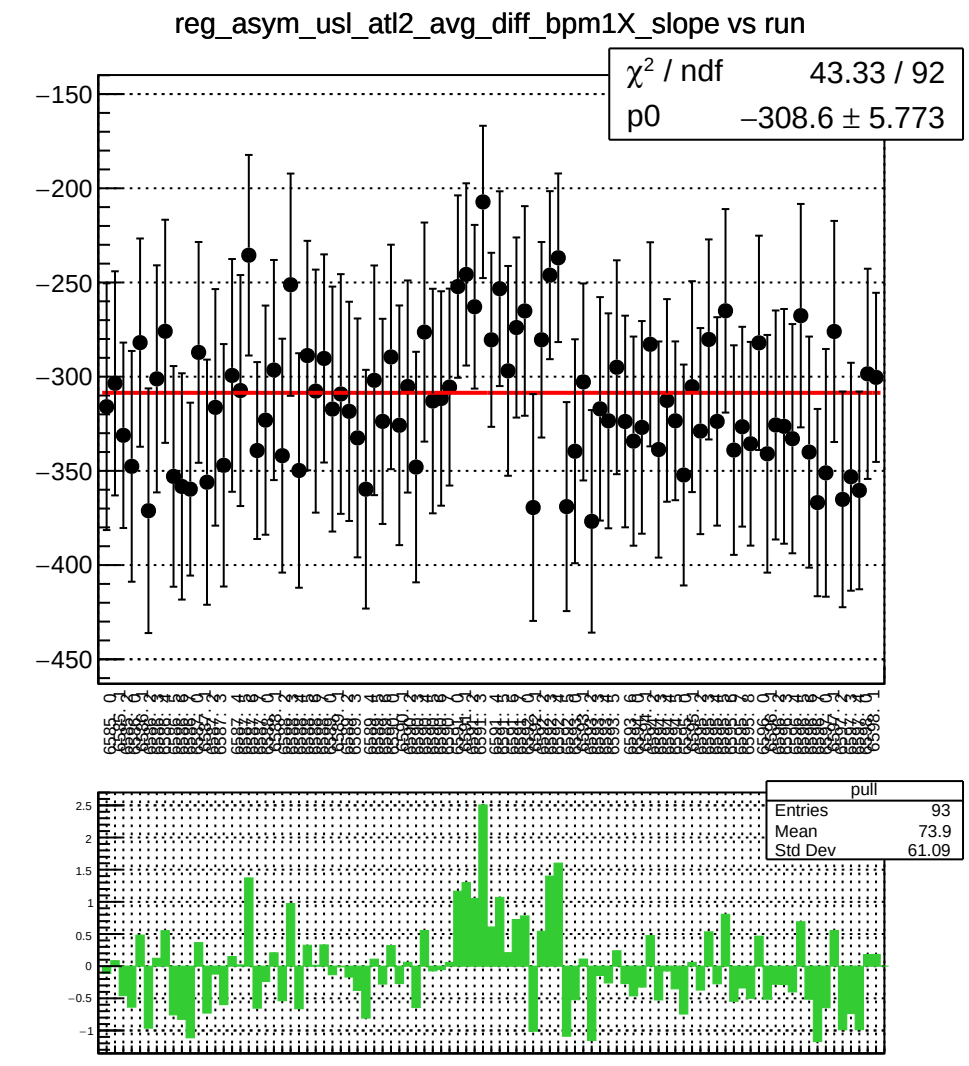

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.67 / 92
p0 −28.97 ± 1.335
pull
Entries 93
Mean −102.2
Std Dev 0

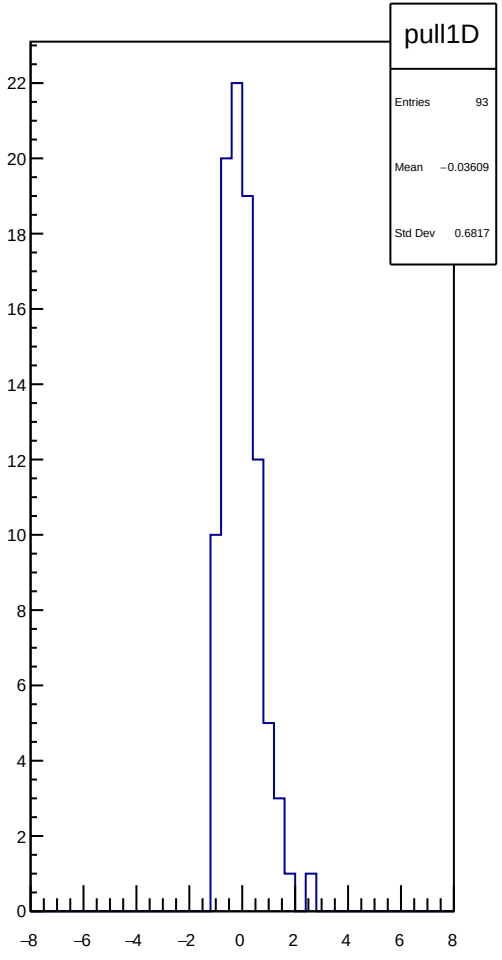

pull1D
Entries 93
Mean −0.01633
Std Dev 0.8529

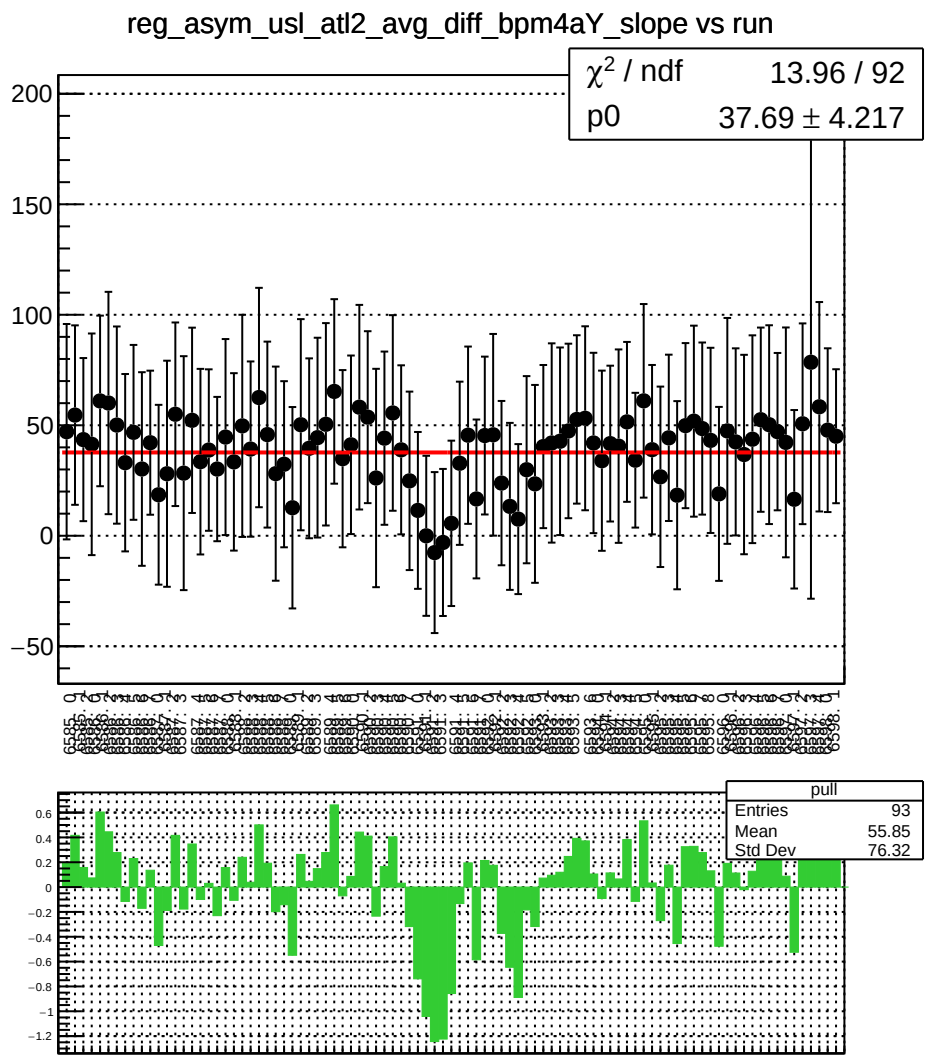

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 87.54 / 92
p0 11.44 ± 1.134
pull
Entries 93
Mean −26.93
Std Dev 0
pull1D
Entries 93
Mean −0.009509
Std Dev 0.9702

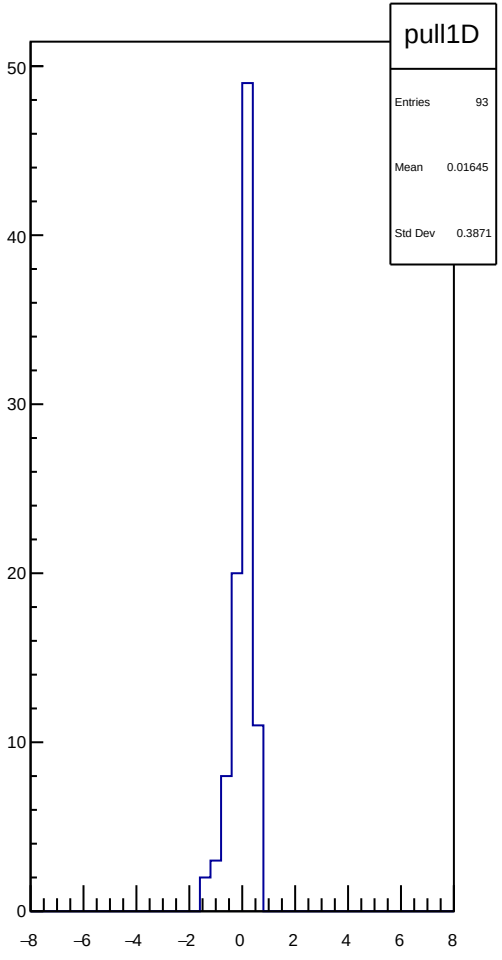

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 145.5 / 92
p0 −6.597 ± 0.05436
pull
Entries 93
Mean −1229
Std Dev 0

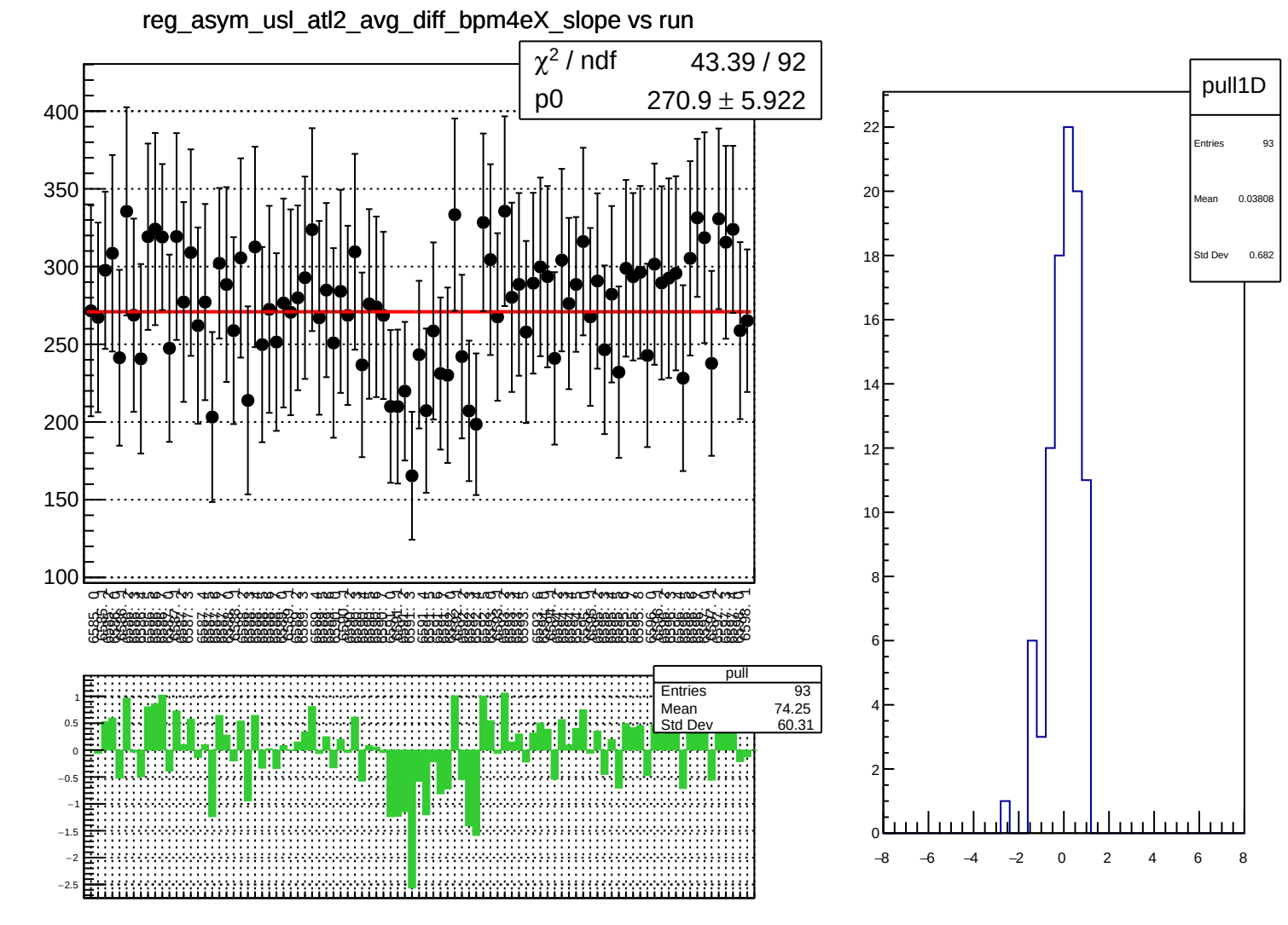

pull1D
Entries 93
Mean 0.004229
Std Dev 1.251

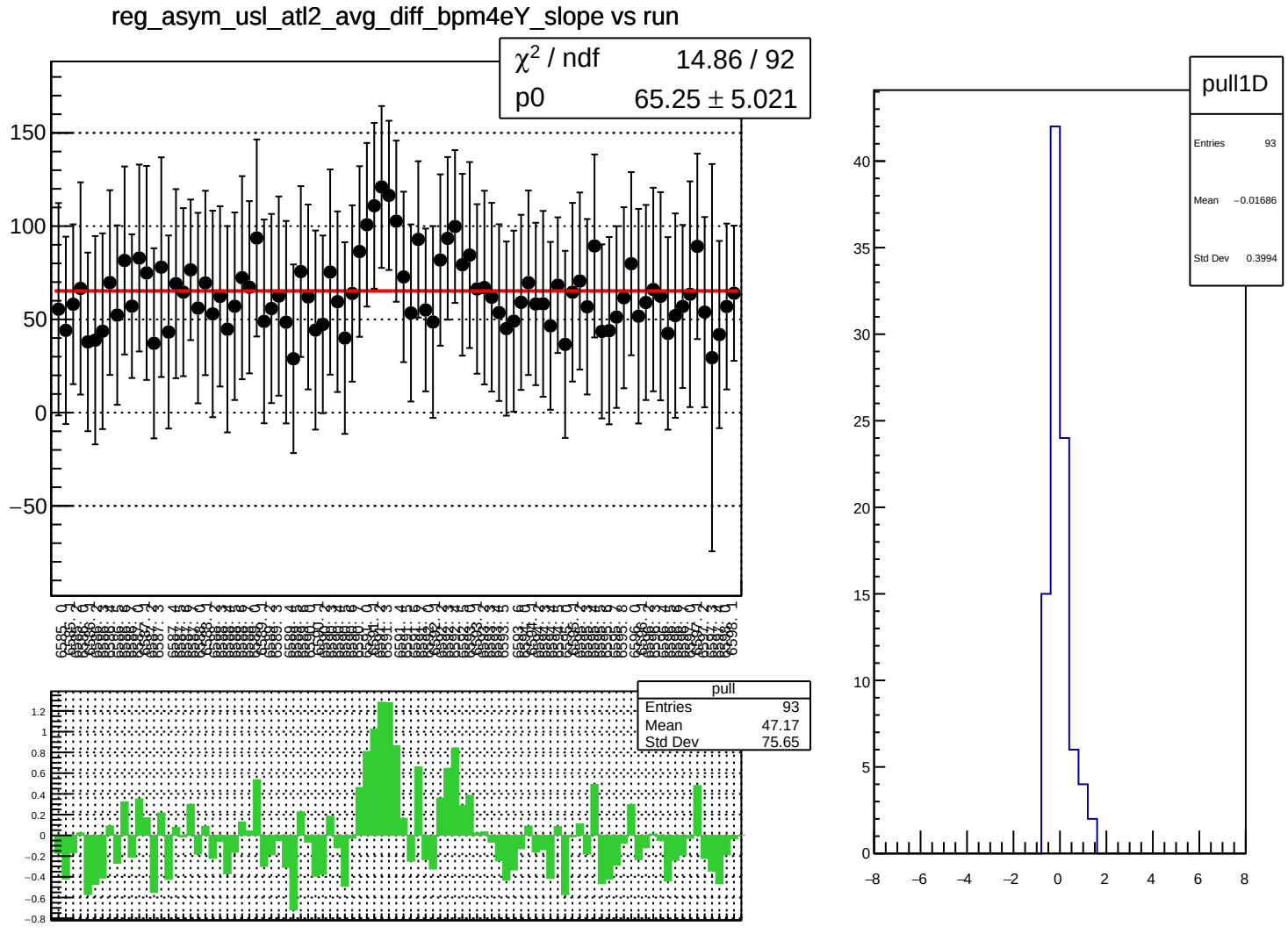

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 43.33 / 92
p0 −308.6 ± 5.773
−150
−200
−250
−300
−350
−400
−450
pull
Entries 93
Mean 73.9
Std Dev 61.09
2.5
2
1.5
1
0.5
0
−0.5
−1

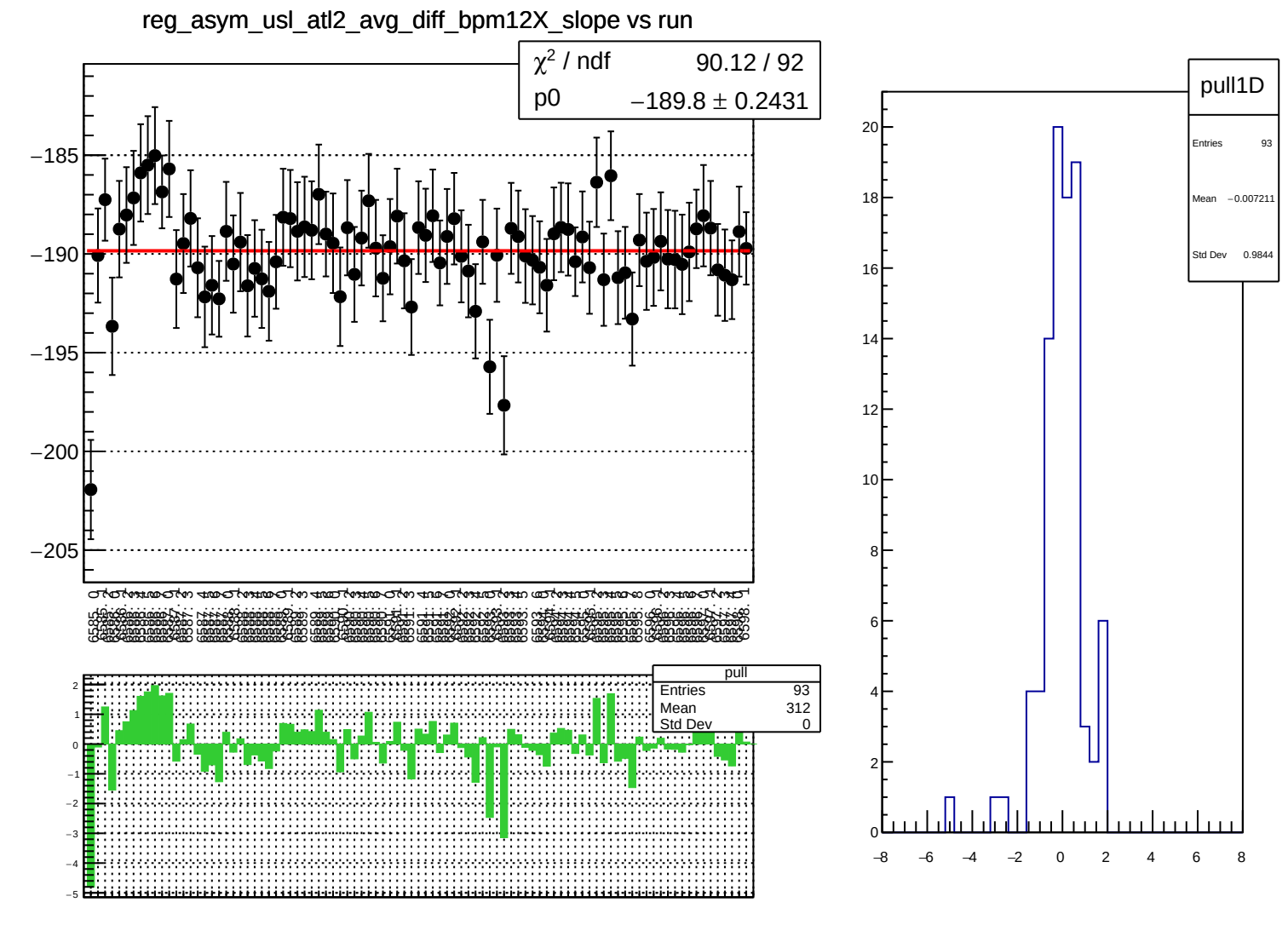

pull1D
Entries 93
Mean −0.03609
Std Dev 0.6817
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

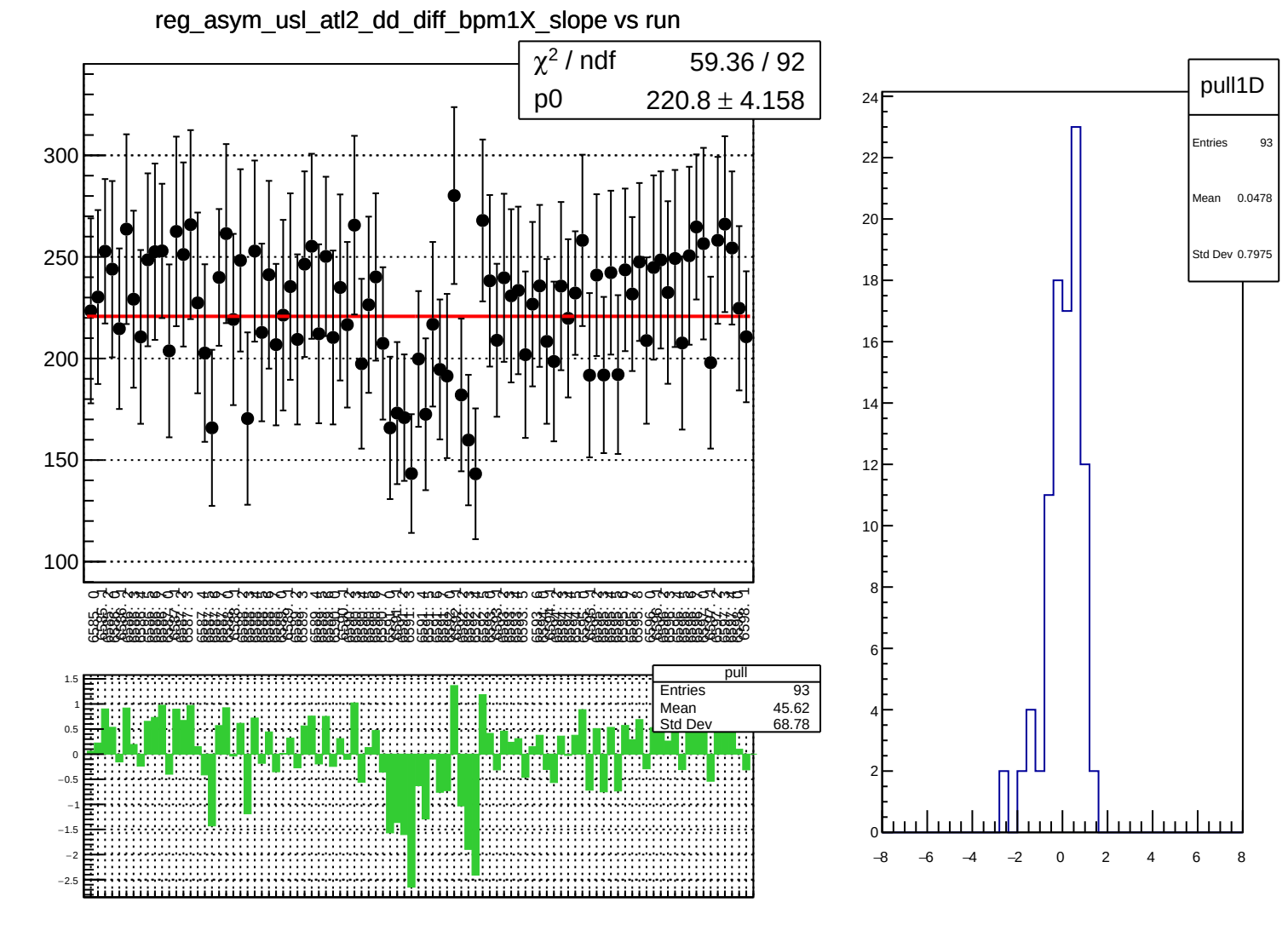

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.96 / 92
p0 37.69 ± 4.217
pull
Entries 93
Mean 55.85
Std Dev 76.32

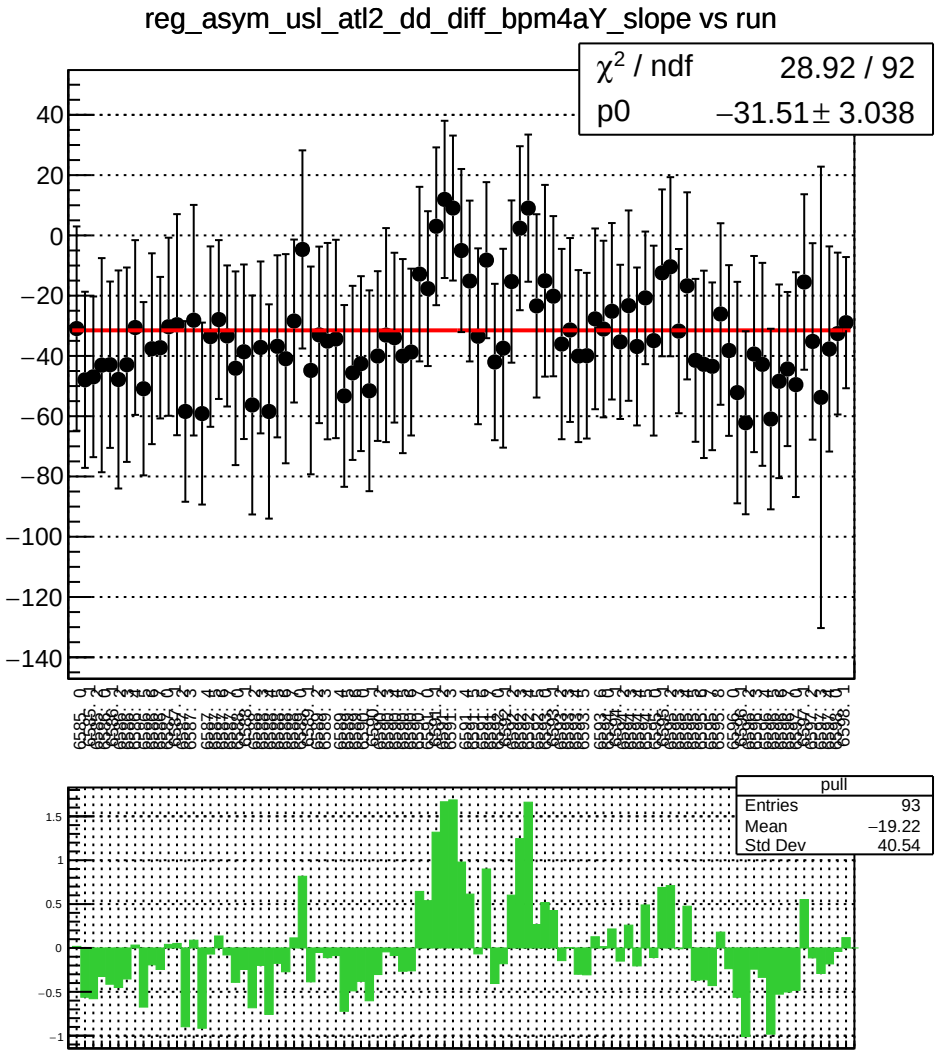

pull1D
Entries 93
Mean 0.01645
Std Dev 0.3871

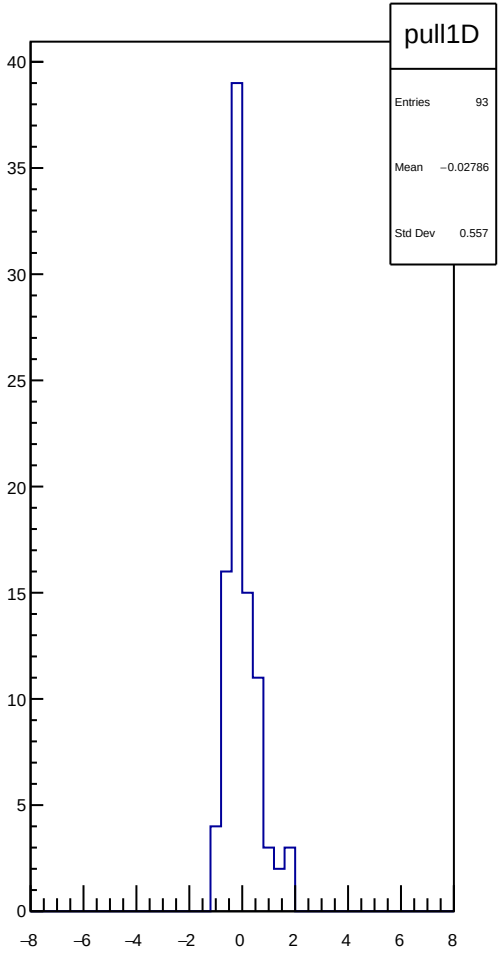

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.39 / 92
p0 270.9 ± 5.922
pull
Entries 93
Mean 74.25
Std Dev 60.31
pull1D
Entries 93
Mean 0.03808
Std Dev 0.682

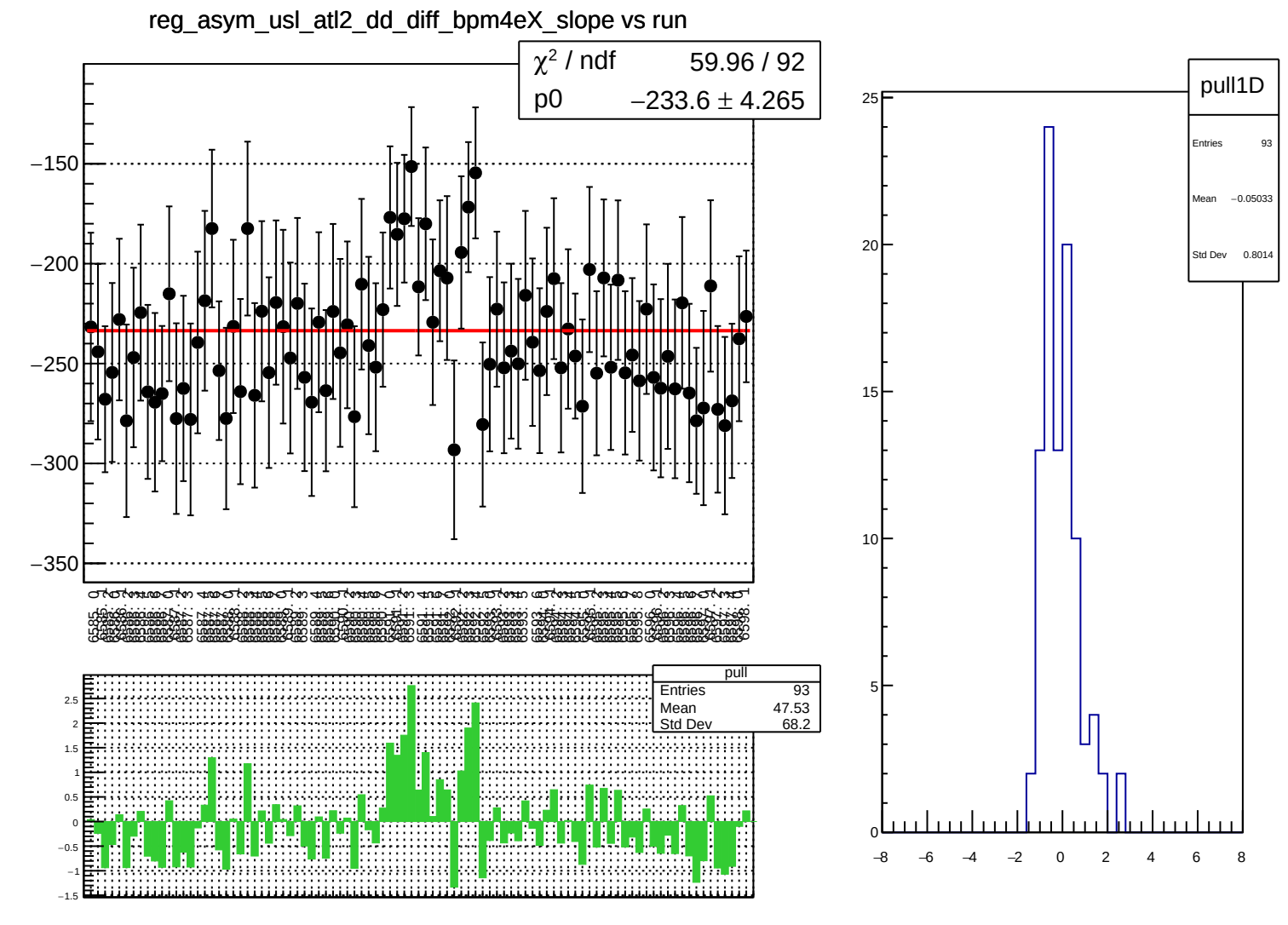

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.86 / 92
p0 65.25 ± 5.021
150
100
50
0
−50
pull
Entries 93
Mean 47.17
Std Dev 75.65
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean −0.01686
Std Dev 0.3994
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

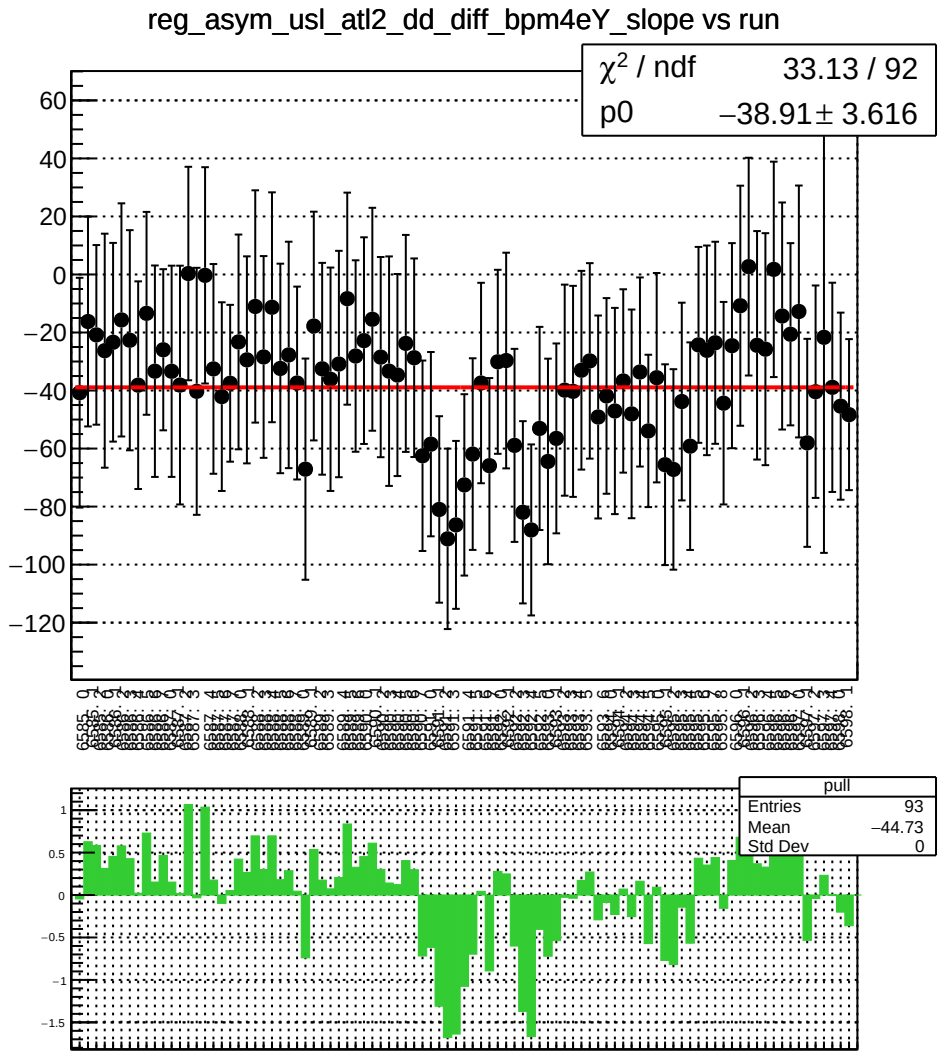

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 90.12 / 92
p0 −189.8 ± 0.2431
−185
−190
−195
−200
−205
pull
Entries 93
Mean 312
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 93
Mean −0.007211
Std Dev 0.9844
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

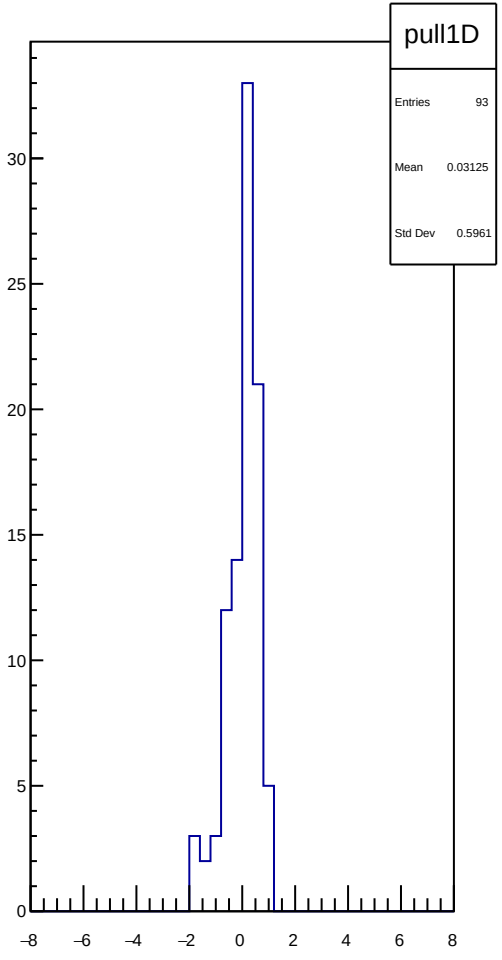

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 59.36 / 92
p0 220.8 ± 4.158
300
250
200
150
100
pull
Entries 93
Mean 45.62
Std Dev 68.78
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.0478
Std Dev 0.7975
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

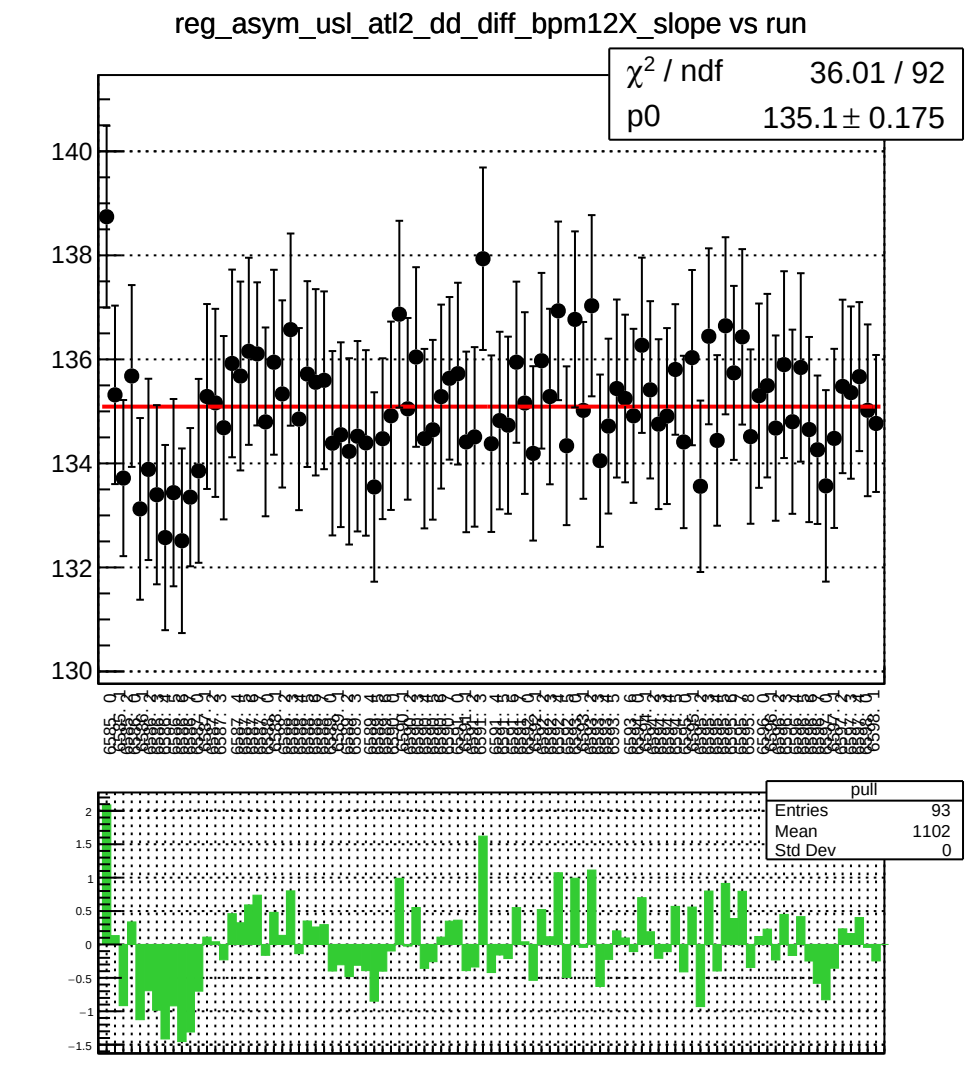

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.92 / 92
p0 −31.51 ± 3.038
pull
Entries 93
Mean −19.22
Std Dev 40.54

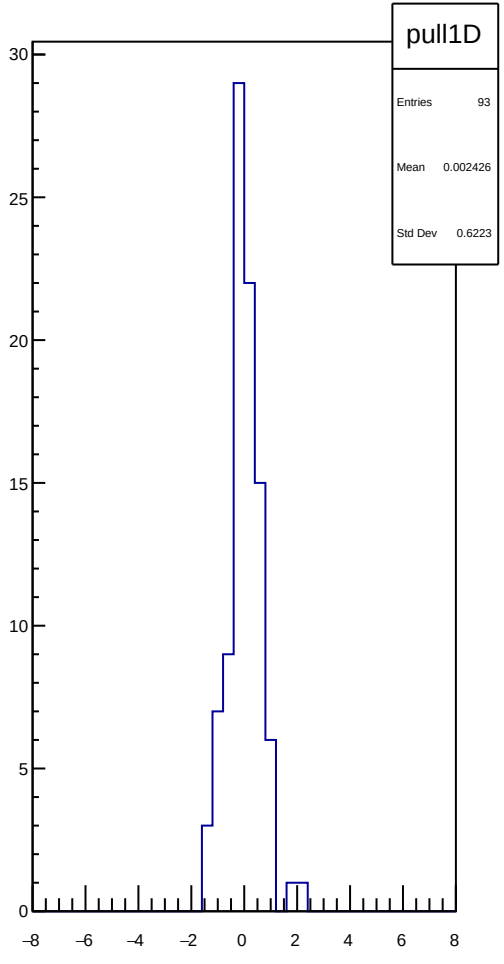

pull1D
Entries 93
Mean −0.02786
Std Dev 0.557

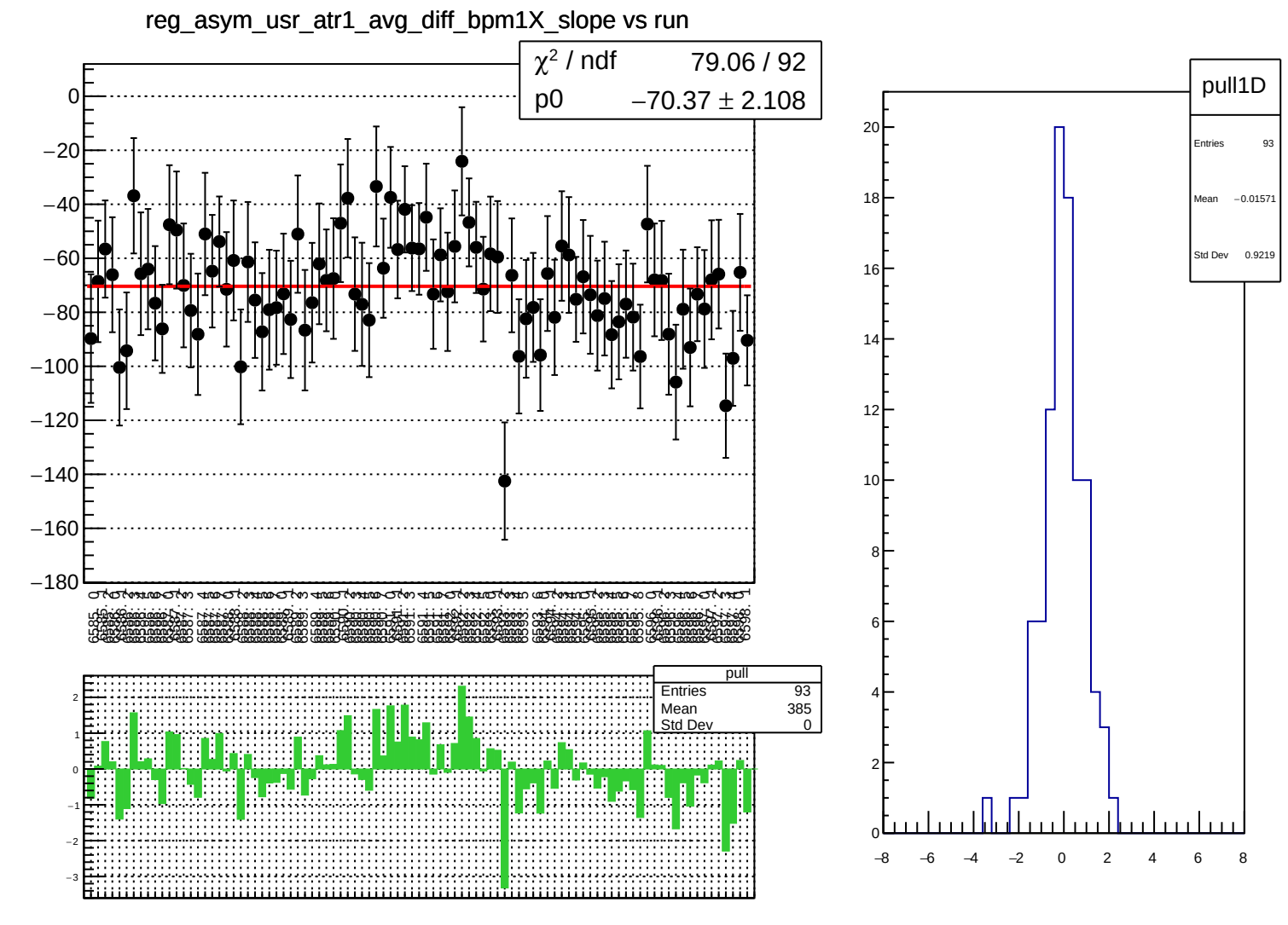

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.96 / 92
p0 −233.6 ± 4.265
−150
−200
−250
−300
−350
pull
Entries 93
Mean 47.53
Std Dev 68.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.05033
Std Dev 0.8014
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

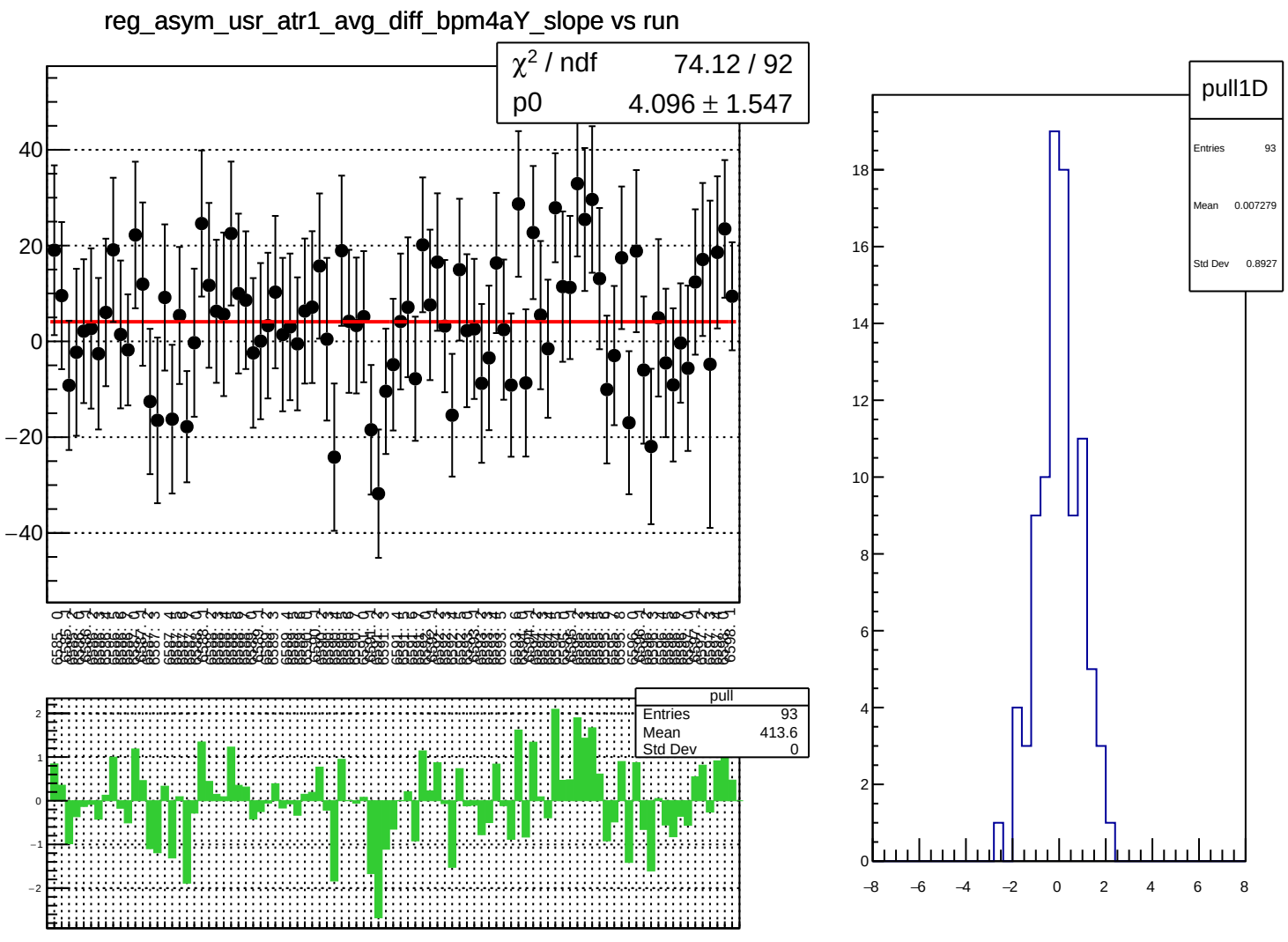

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.13 / 92
p0 −38.91 ± 3.616
pull
Entries 93
Mean −44.73
Std Dev 0

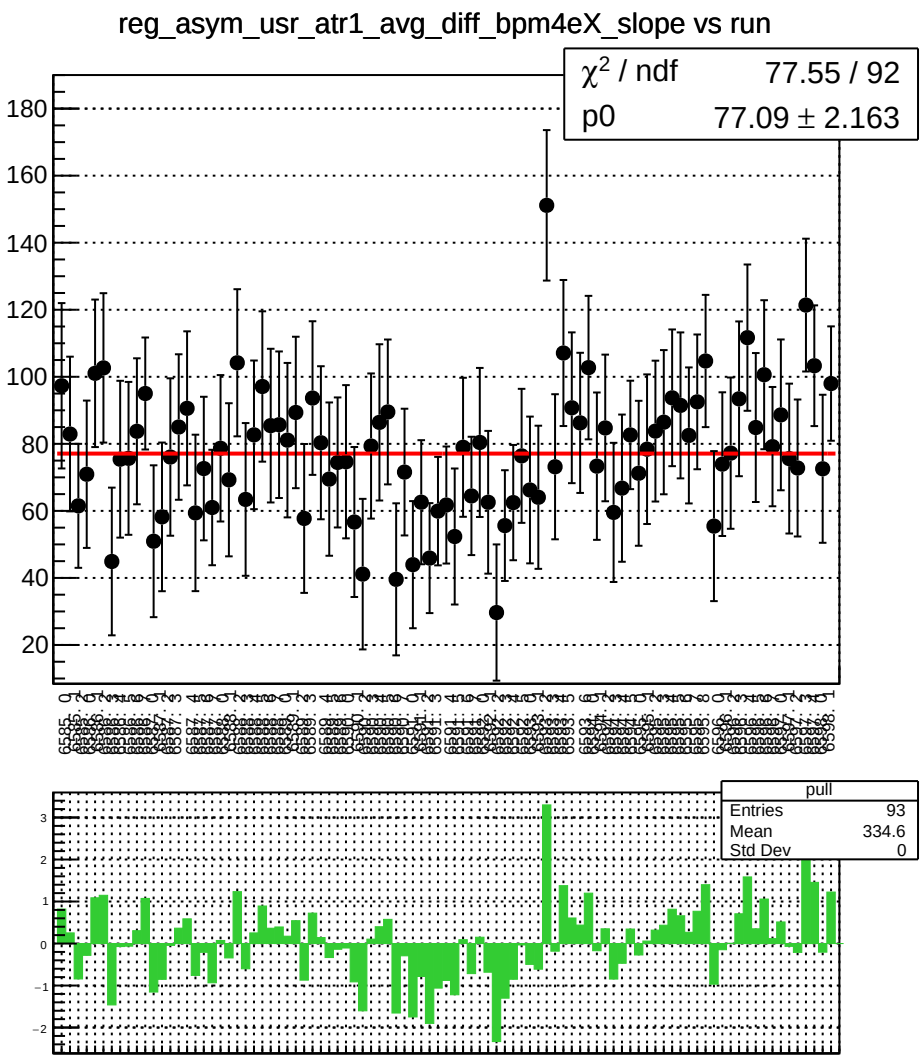

pull1D
Entries 93
Mean 0.03125
Std Dev 0.5961

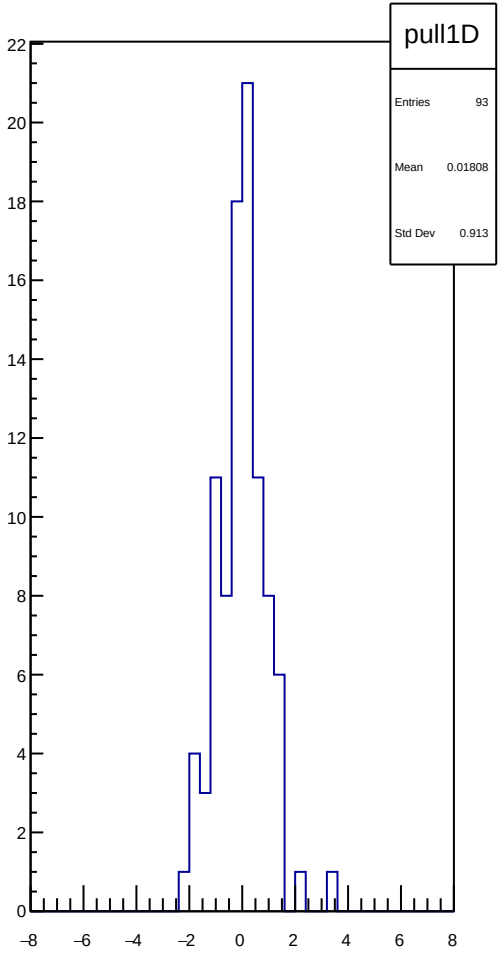

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 36.01 / 92
p0 135.1 ± 0.175
140
138
136
134
132
130
pull
Entries 93
Mean 1102
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

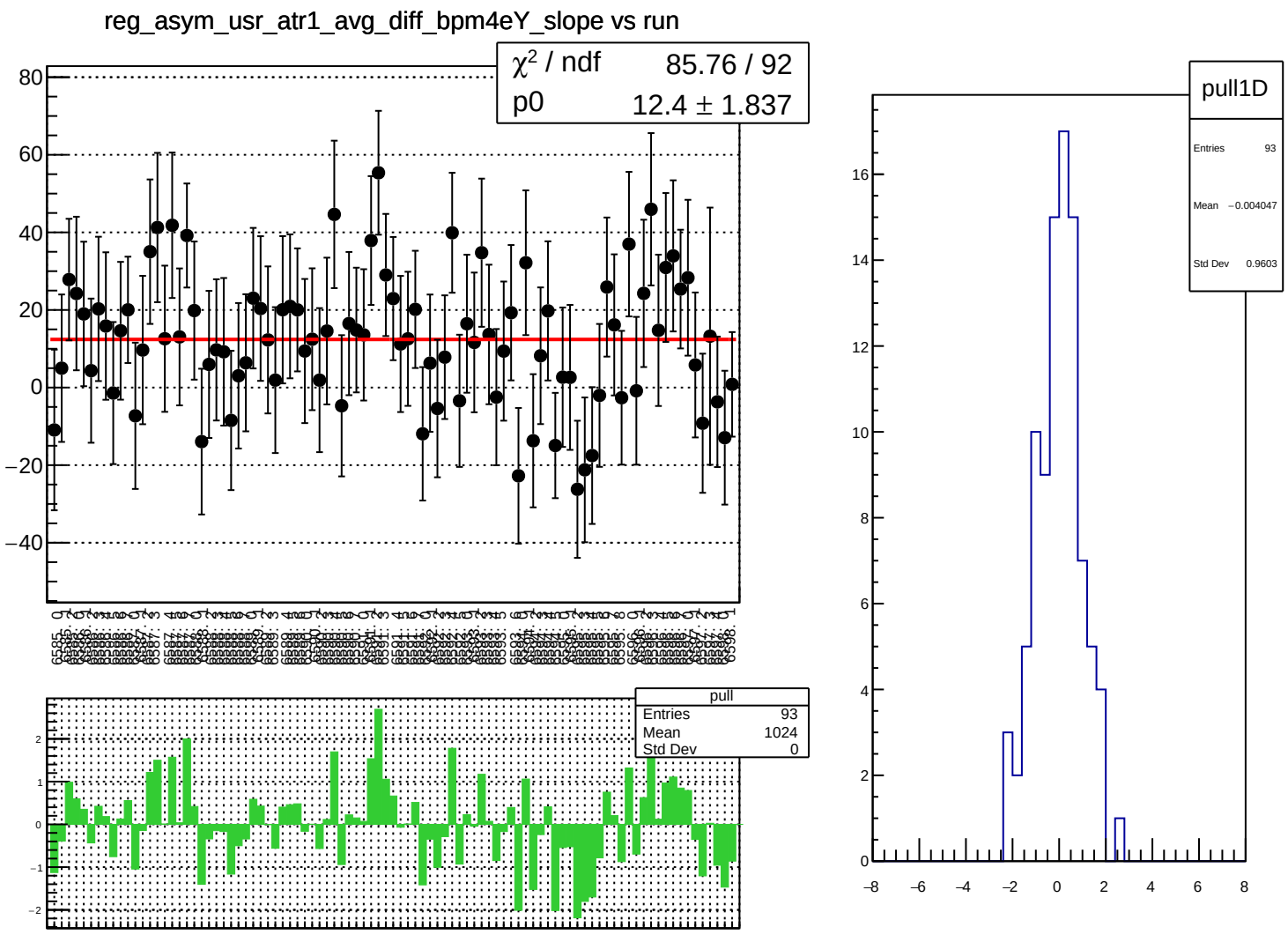

pull1D
Entries 93
Mean 0.002426
Std Dev 0.6223
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

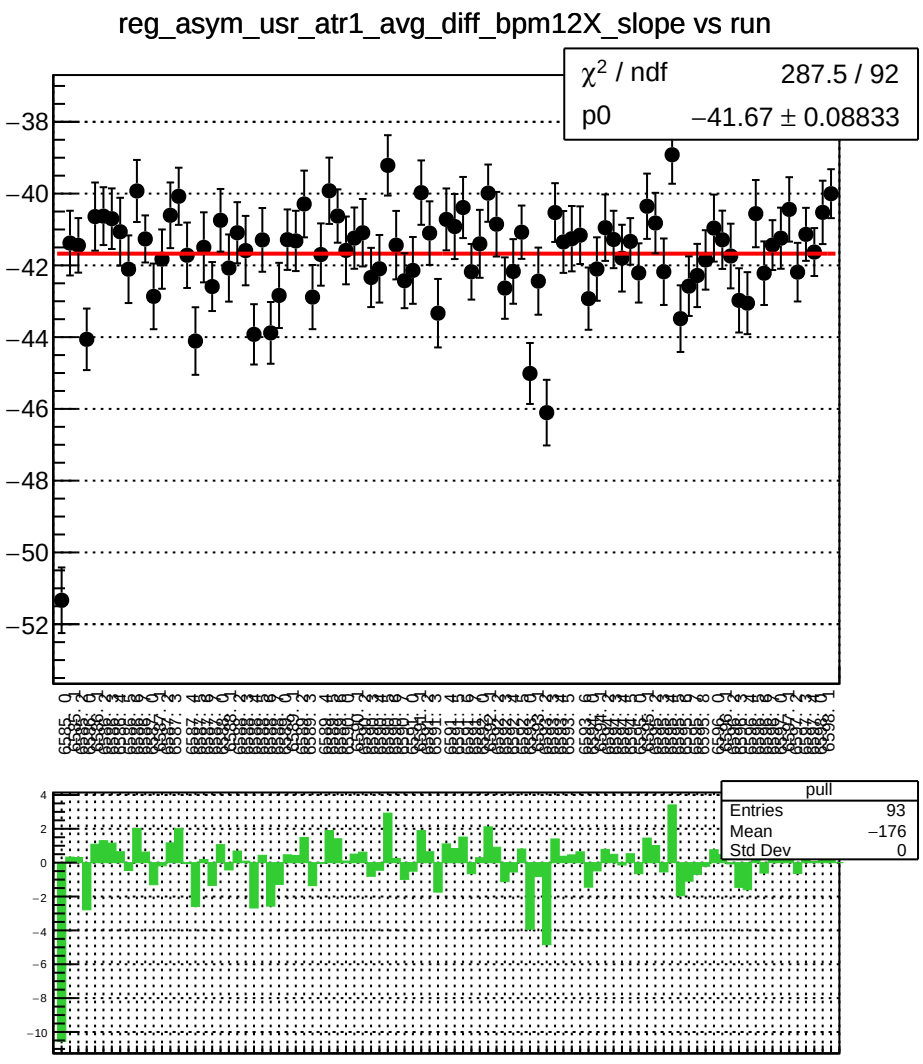

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 79.06 / 92
p0 −70.37 ± 2.108
pull
Entries 93
Mean 385
Std Dev 0
pull1D
Entries 93
Mean −0.01571
Std Dev 0.9219

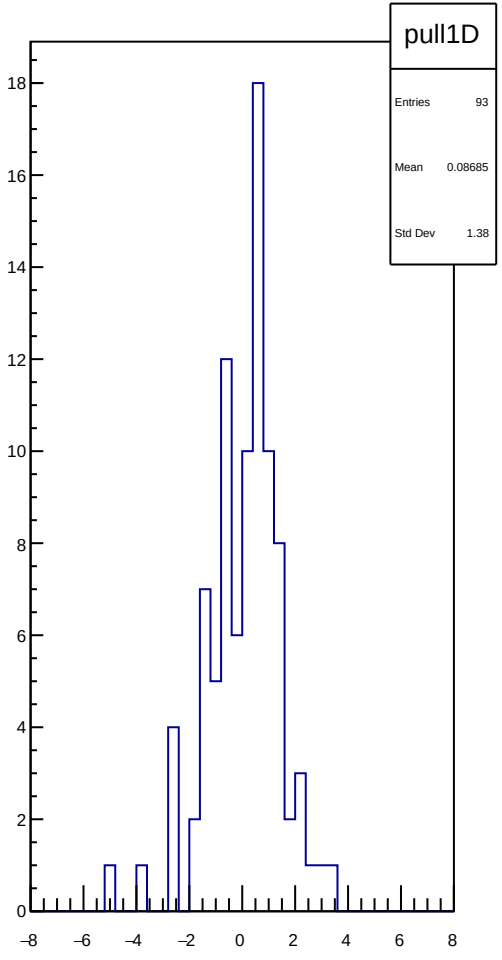

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.12 / 92
p0 4.096 ± 1.547
pull
Entries 93
Mean 413.6
Std Dev 0
pull1D
Entries 93
Mean 0.007279
Std Dev 0.8927

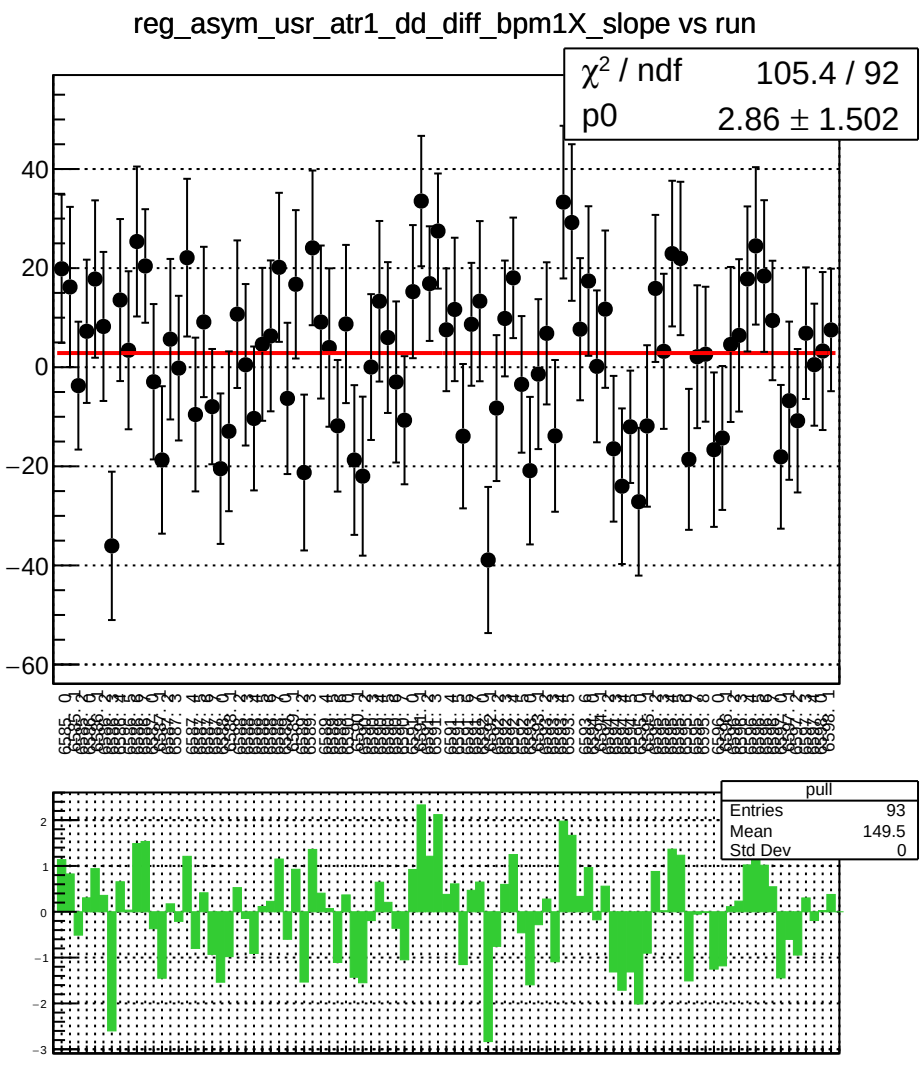

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.55 / 92
p0 77.09 ± 2.163
pull
Entries 93
Mean 334.6
Std Dev 0

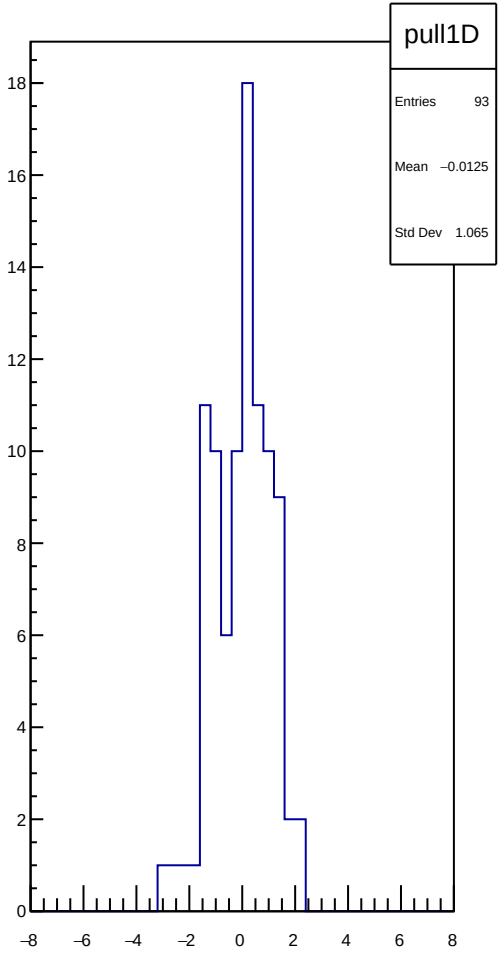

pull1D
Entries 93
Mean 0.01808
Std Dev 0.913

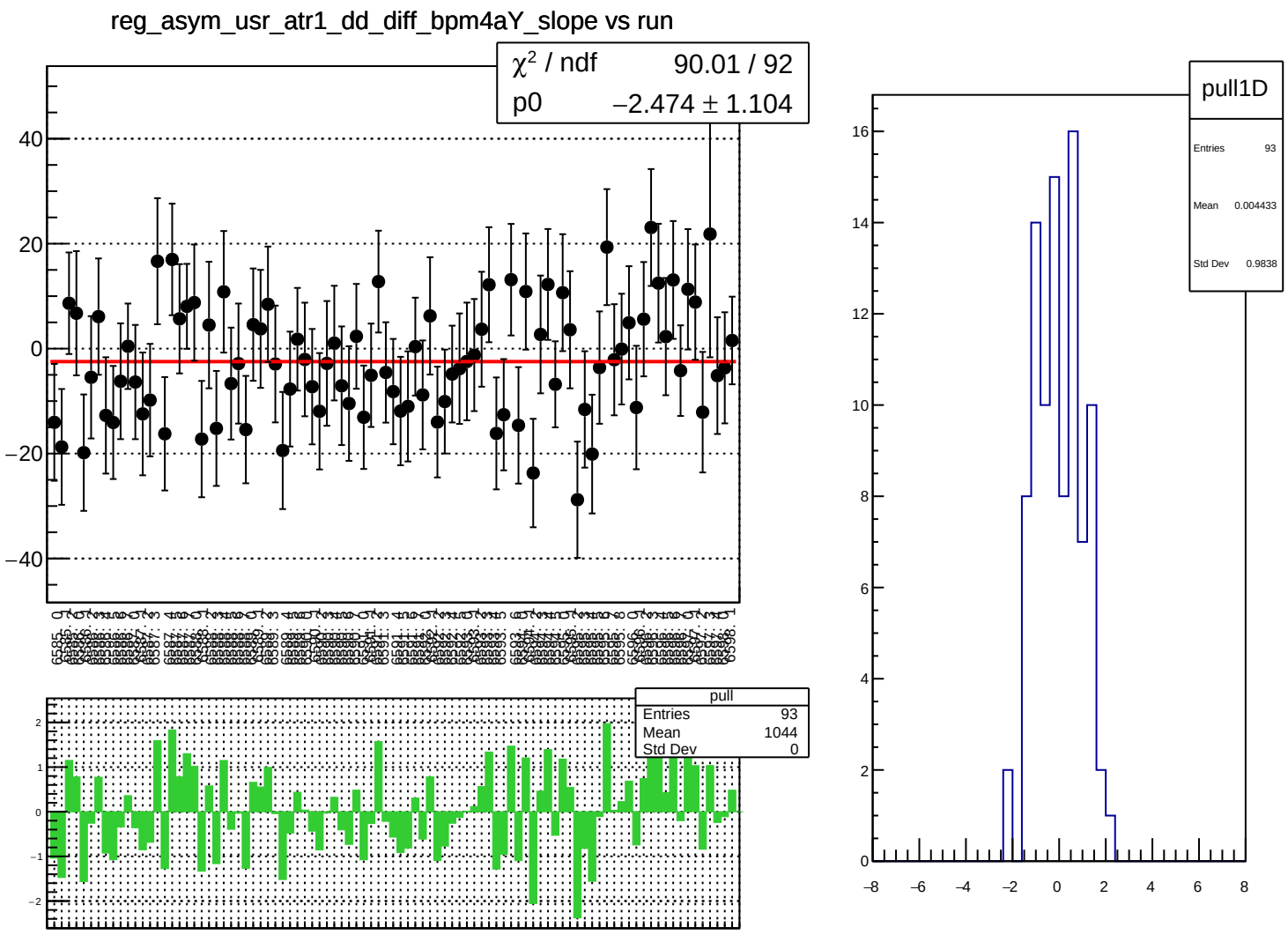

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.76 / 92
p0 12.4 ± 1.837
pull
Entries 93
Mean 1024
Std Dev 0
pull1D
Entries 93
Mean −0.004047
Std Dev 0.9603

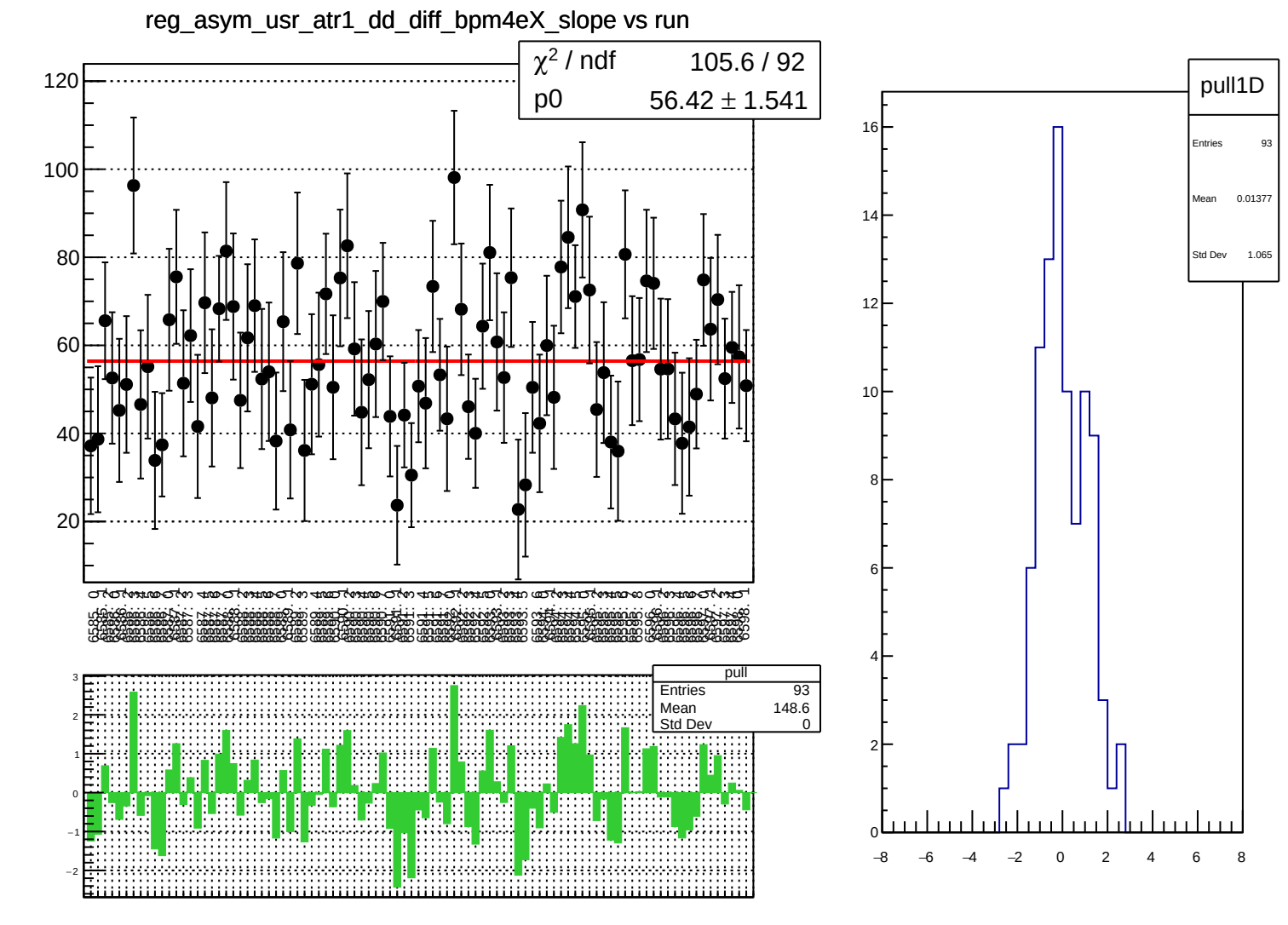

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 287.5 / 92
p0 −41.67 ± 0.08833
pull
Entries 93
Mean −176
Std Dev 0

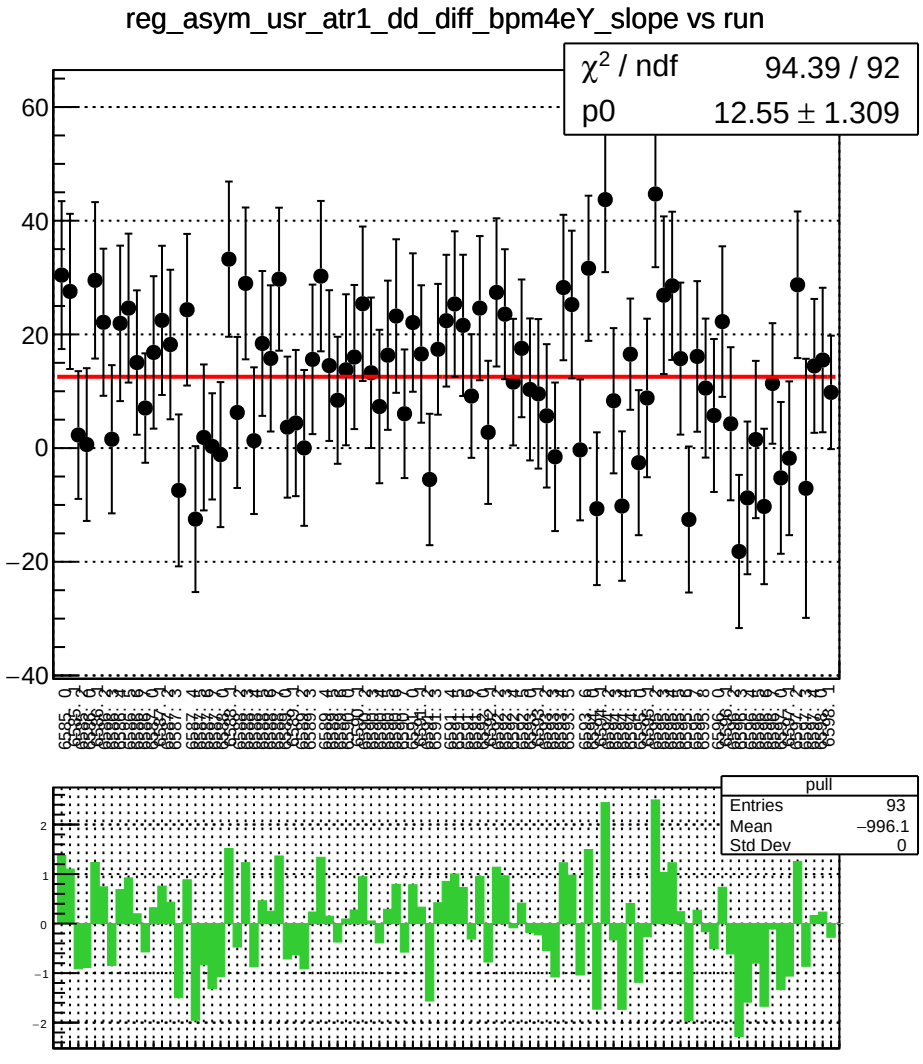

pull1D
Entries 93
Mean 0.08685
Std Dev 1.38

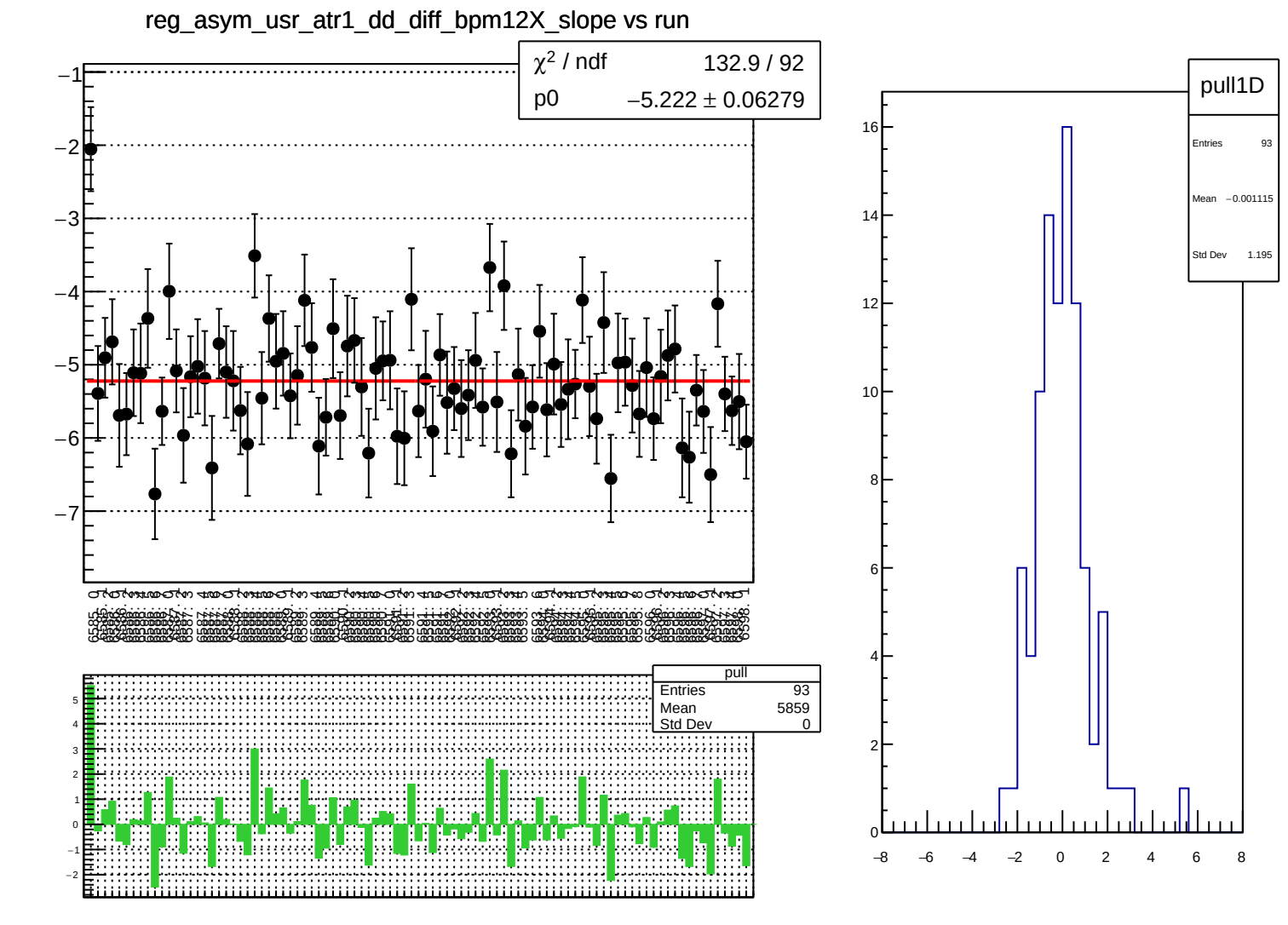

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 105.4 / 92
p0 2.86 ± 1.502
pull
Entries 93
Mean 149.5
Std Dev 0

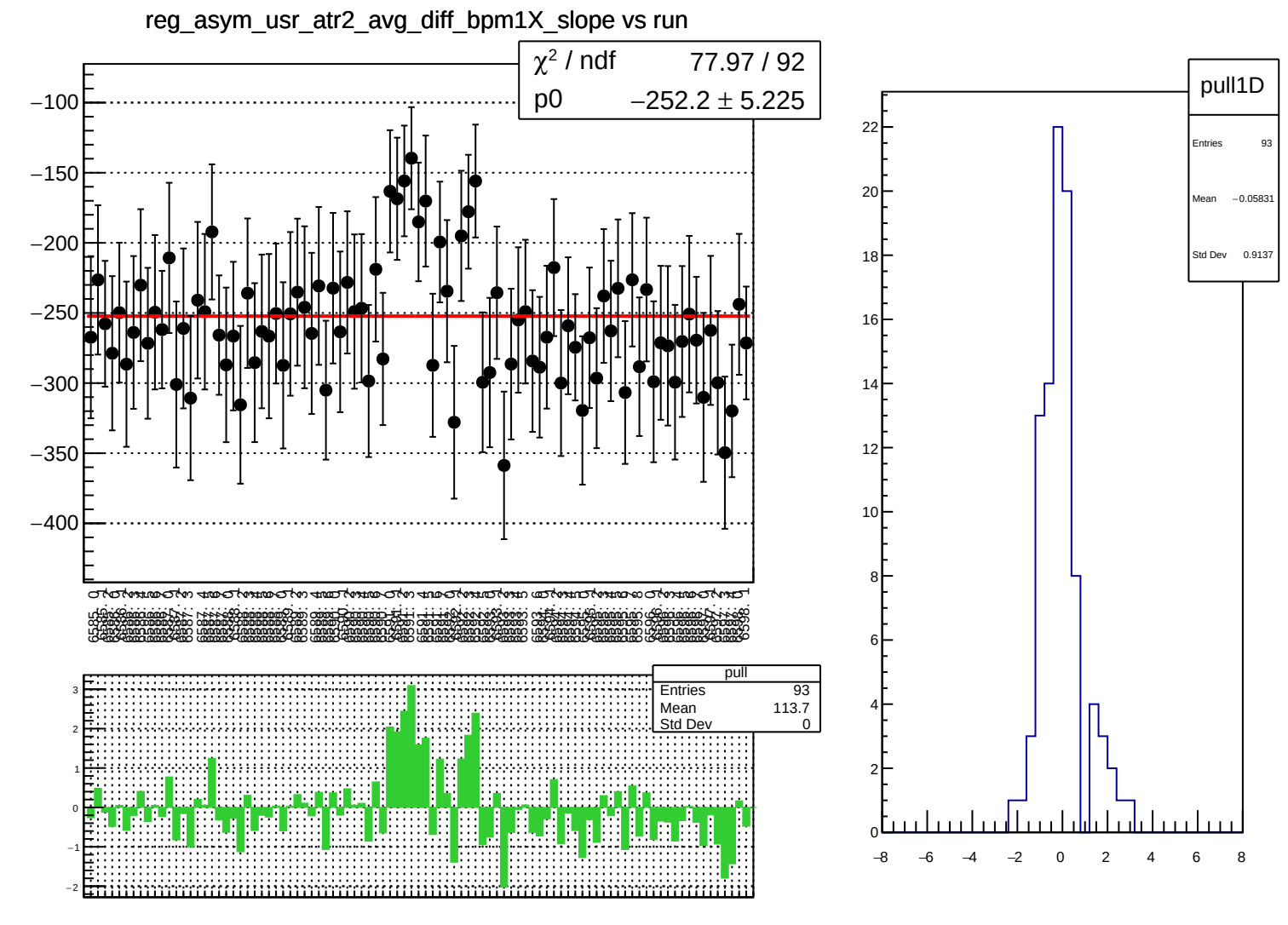

pull1D
Entries 93
Mean −0.0125
Std Dev 1.065

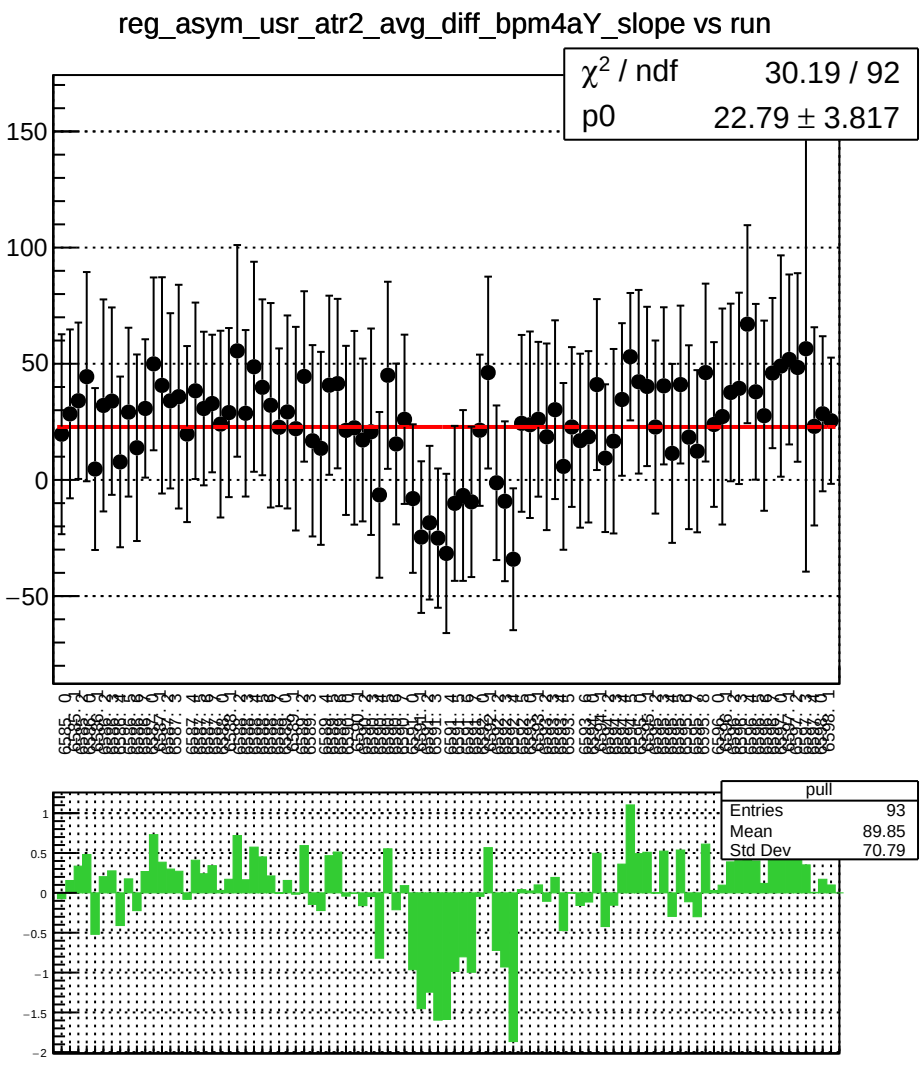

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.01 / 92
p0 −2.474 ± 1.104
40
20
0
−20
−40
pull
Entries 93
Mean 1044
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.004433
Std Dev 0.9838
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

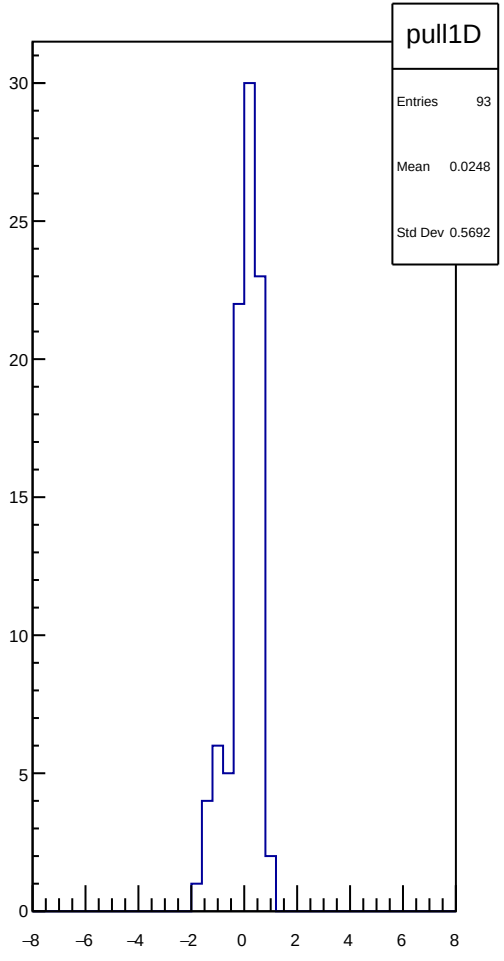

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.6 / 92
p0 56.42 ± 1.541
pull
Entries 93
Mean 148.6
Std Dev 0
pull1D
Entries 93
Mean 0.01377
Std Dev 1.065

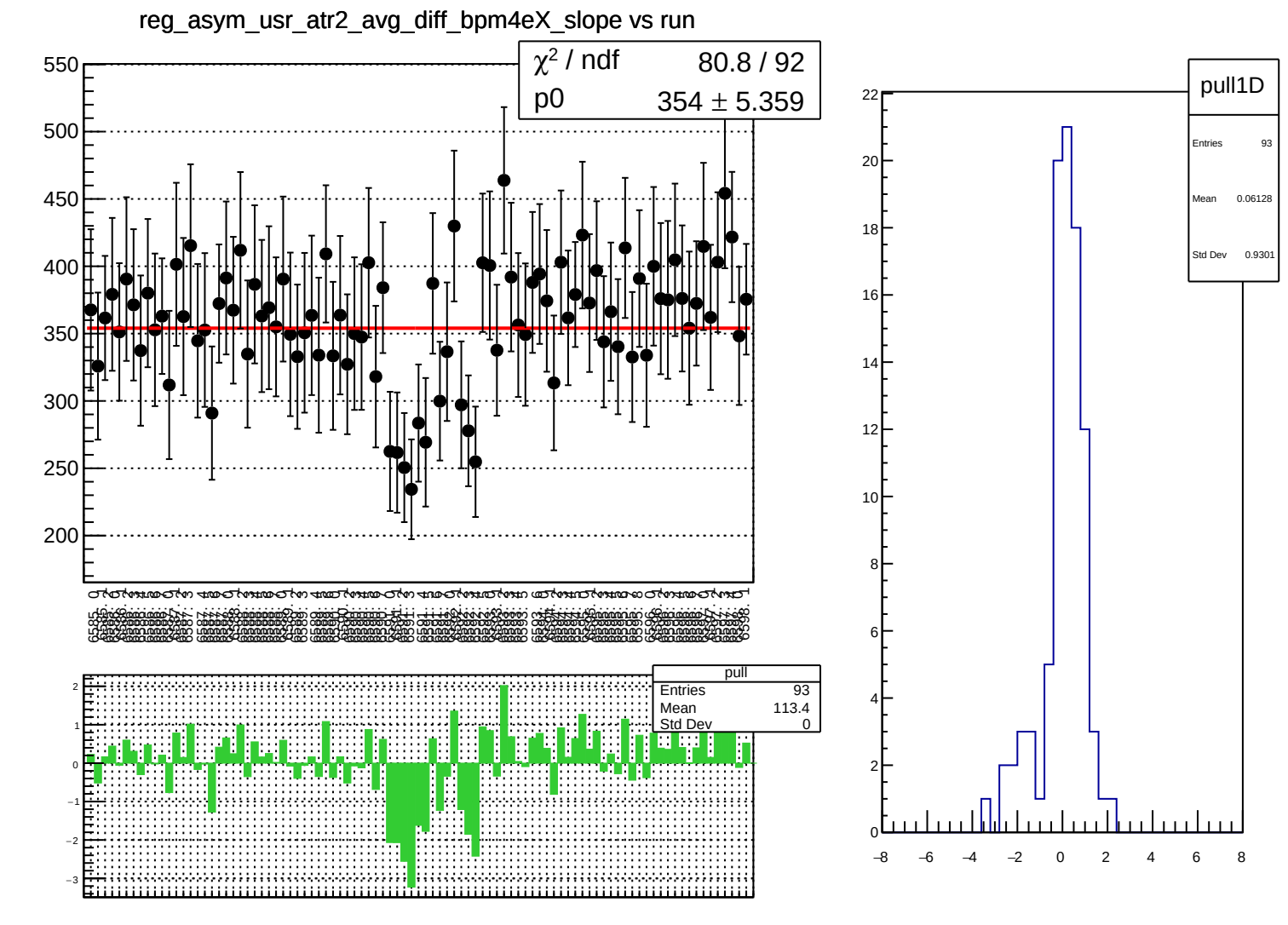

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 94.39 / 92
p0 12.55 ± 1.309
pull
Entries 93
Mean −996.1
Std Dev 0
pull1D
Entries 93
Mean 0.003677
Std Dev 1.007

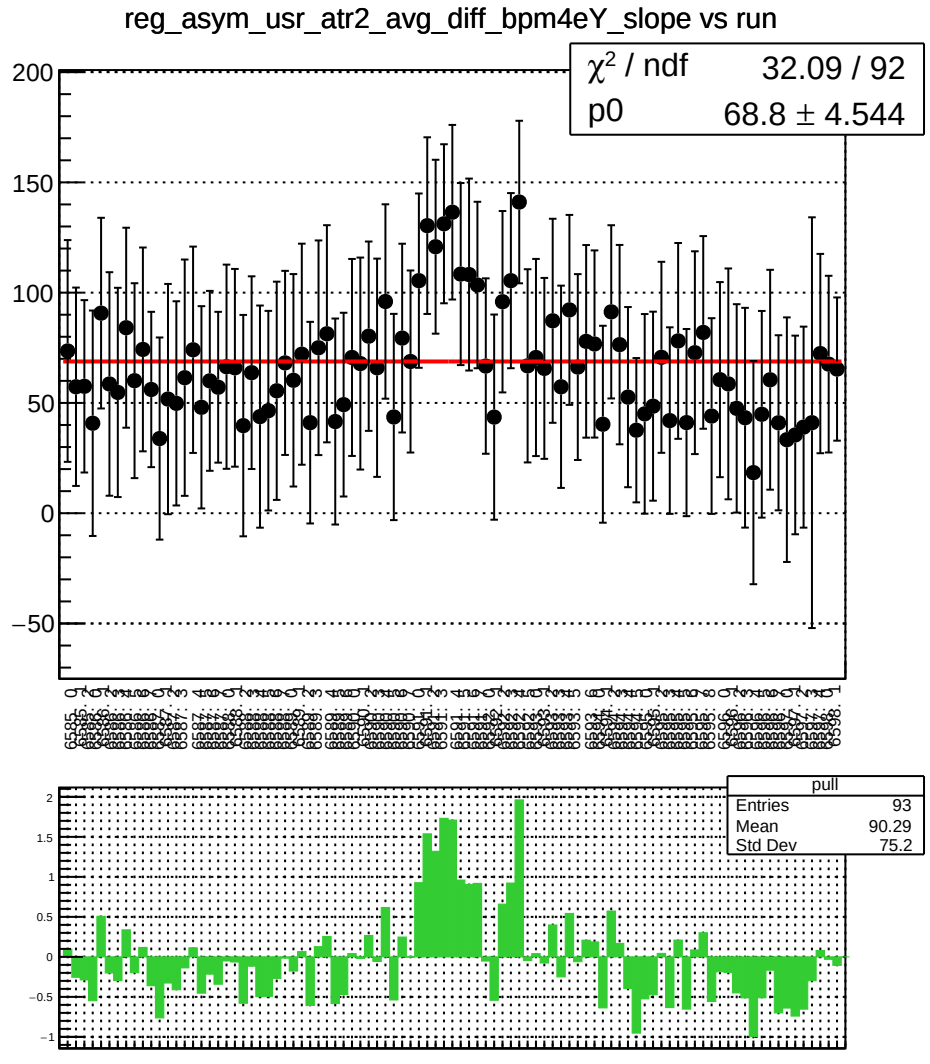

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 132.9 / 92
p0 −5.222 ± 0.06279
pull
Entries 93
Mean 5859
Std Dev 0
pull1D
Entries 93
Mean −0.001115
Std Dev 1.195

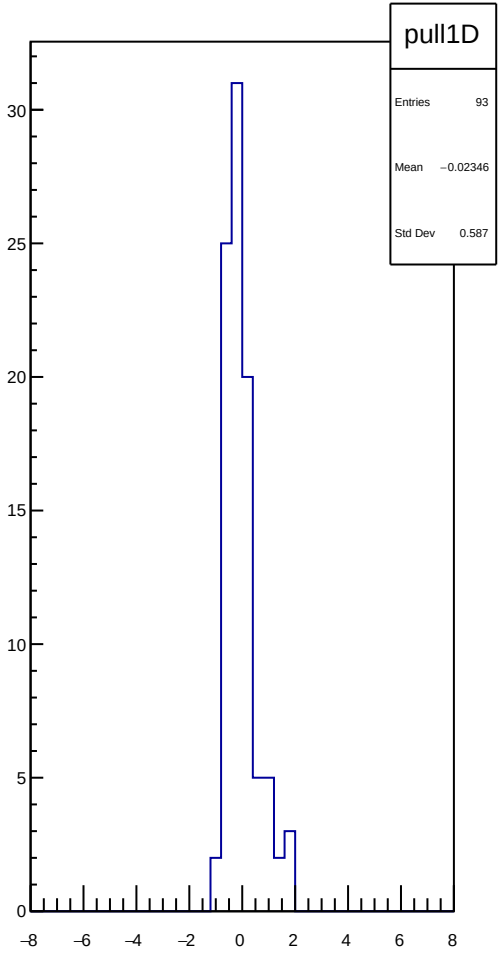

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 77.97 / 92
p0 −252.2 ± 5.225
−100
−150
−200
−250
−300
−350
−400
pull
Entries 93
Mean 113.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05831
Std Dev 0.9137
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

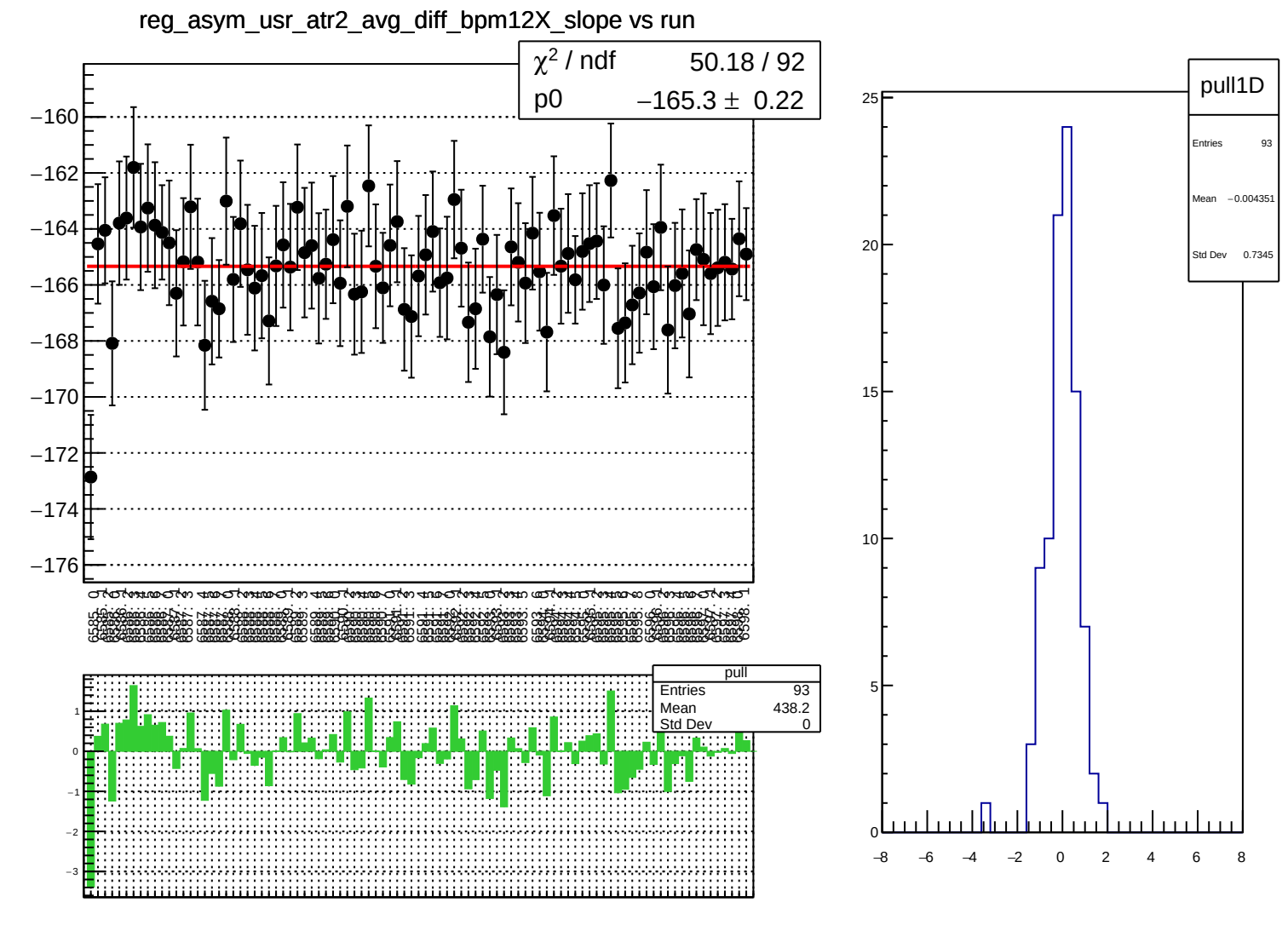

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.19 / 92
p0 22.79 ± 3.817
150
100
50
0
−50
pull
Entries 93
Mean 89.85
Std Dev 70.79
1
0.5
0
−0.5
−1
−1.5
−2

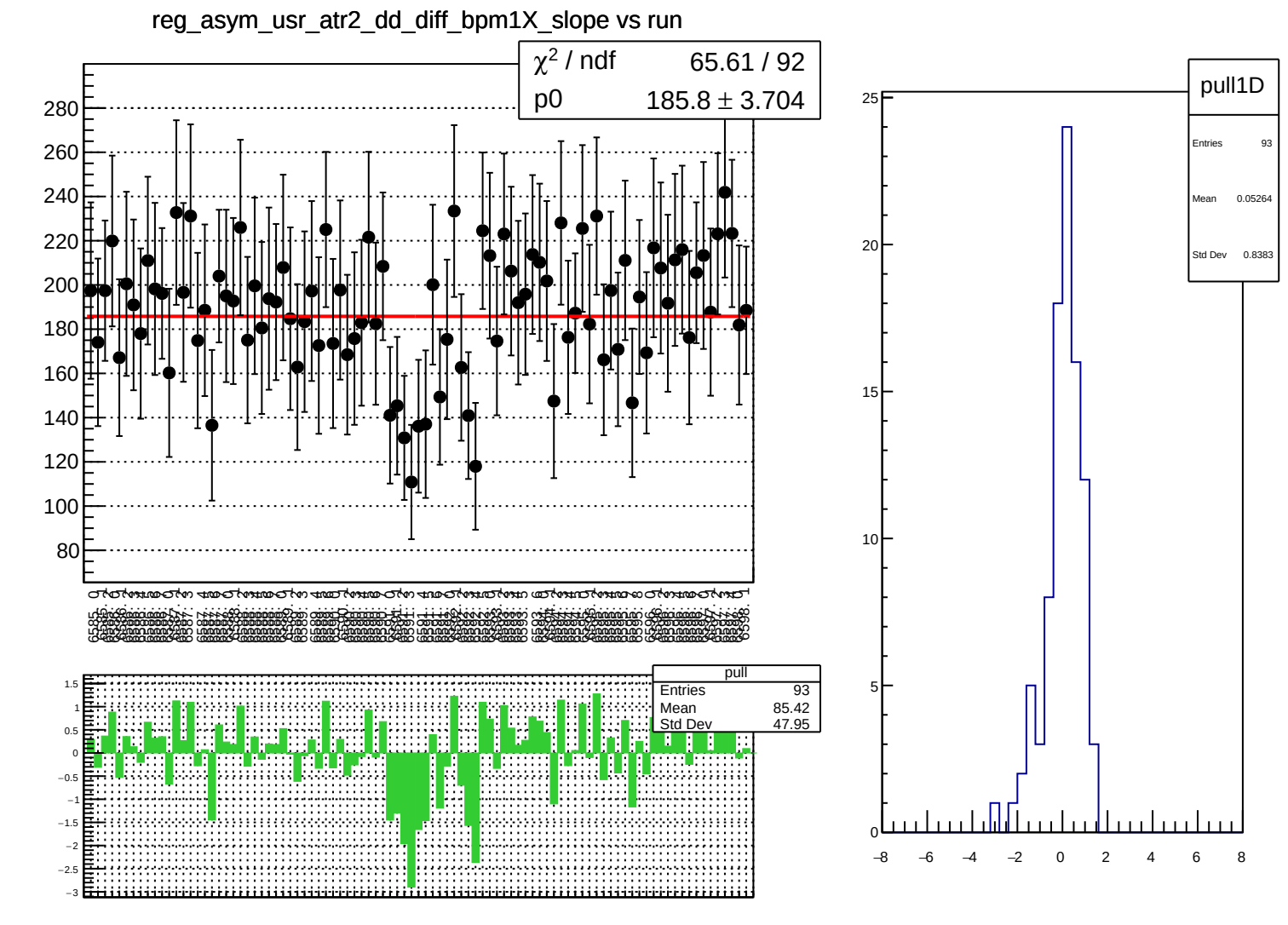

pull1D
Entries 93
Mean 0.0248
Std Dev 0.5692
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

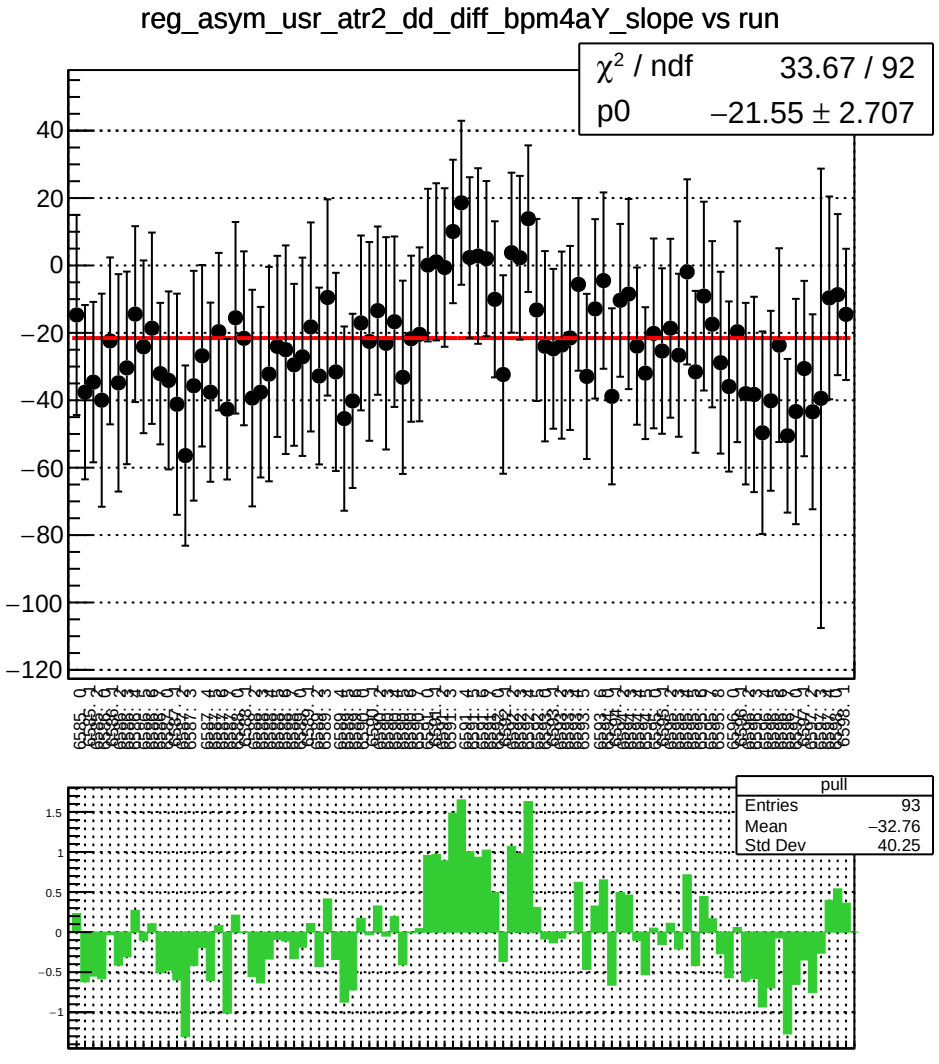

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.8 / 92
p0 354 ± 5.359
pull
Entries 93
Mean 113.4
Std Dev 0
pull1D
Entries 93
Mean 0.06128
Std Dev 0.9301

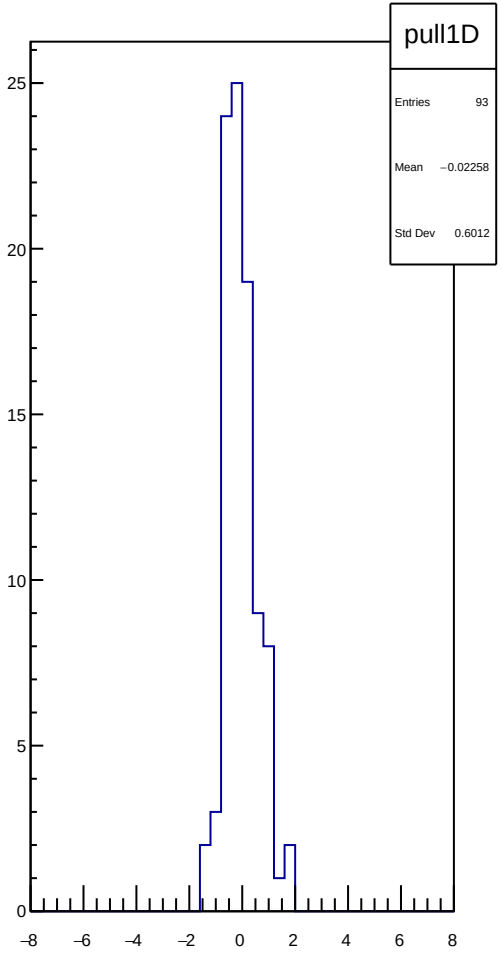

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.09 / 92
p0 68.8 ± 4.544
200
150
100
50
0
−50
pull
Entries 93
Mean 90.29
Std Dev 75.2
2
1.5
1
0.5
0
−0.5
−1

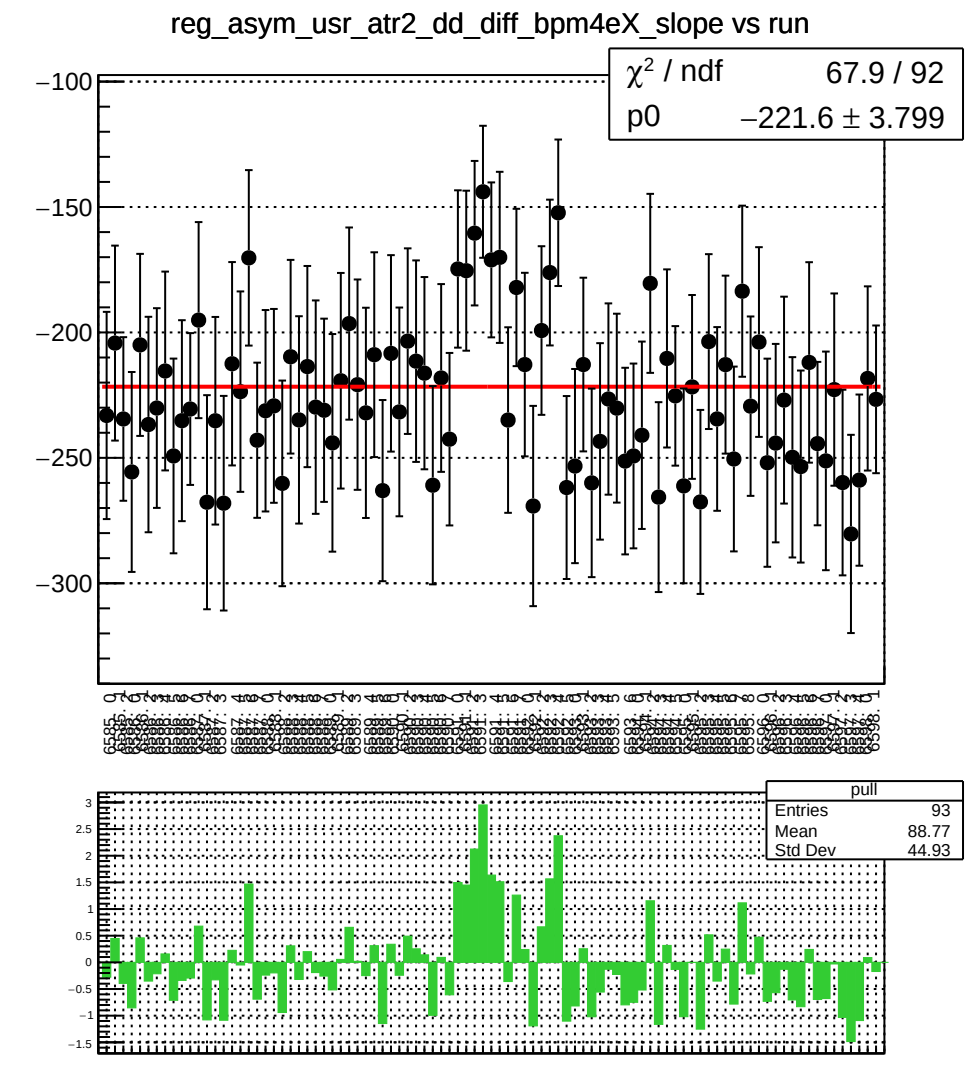

pull1D
Entries 93
Mean −0.02346
Std Dev 0.587
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

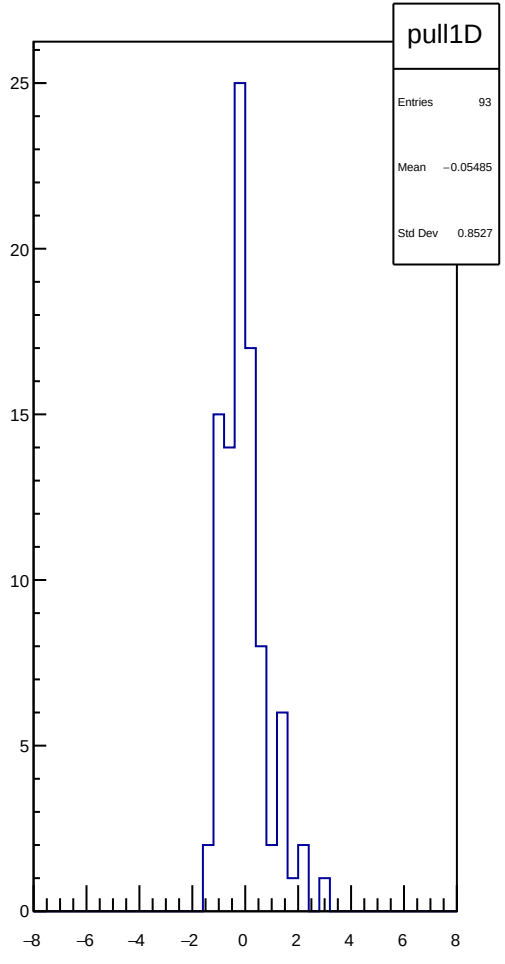

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 50.18 / 92
p0 −165.3 ± 0.22
pull
Entries 93
Mean 438.2
Std Dev 0
pull1D
Entries 93
Mean −0.004351
Std Dev 0.7345

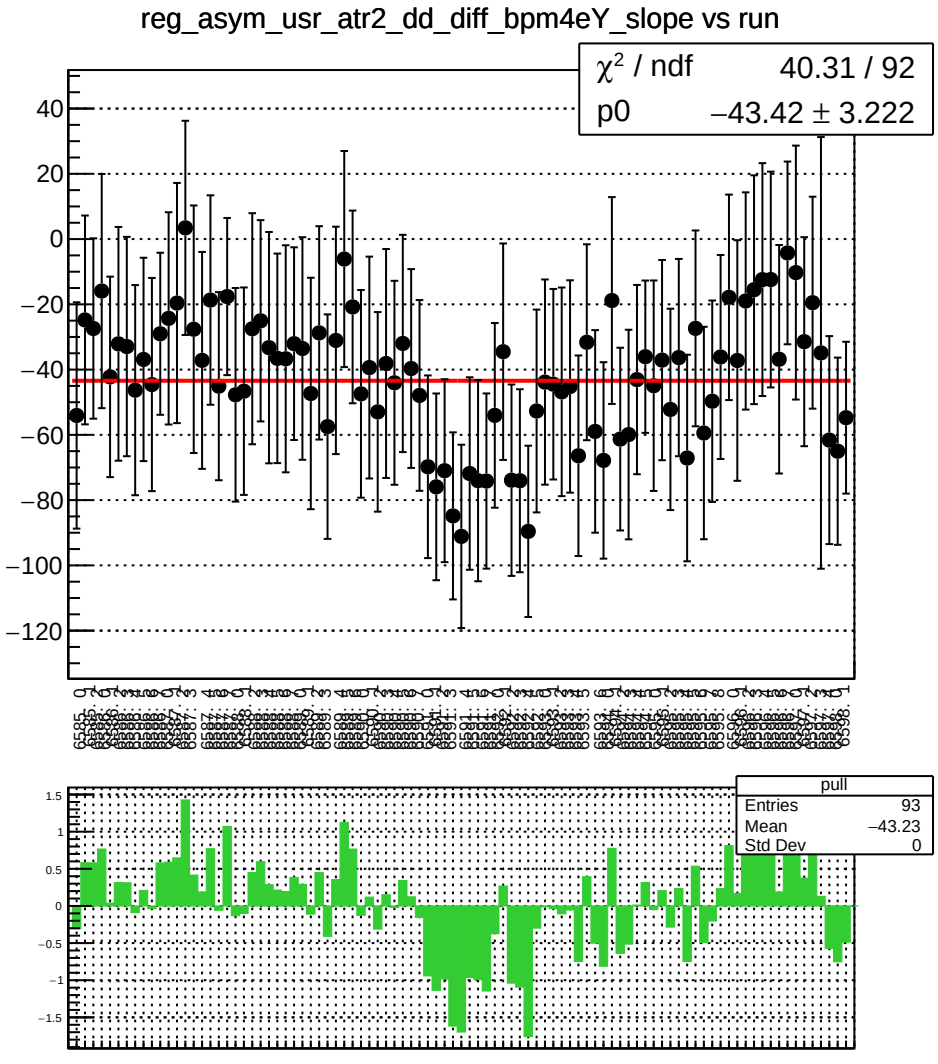

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 65.61 / 92
p0 185.8 ± 3.704
pull
Entries 93
Mean 85.42
Std Dev 47.95
pull1D
Entries 93
Mean 0.05264
Std Dev 0.8383

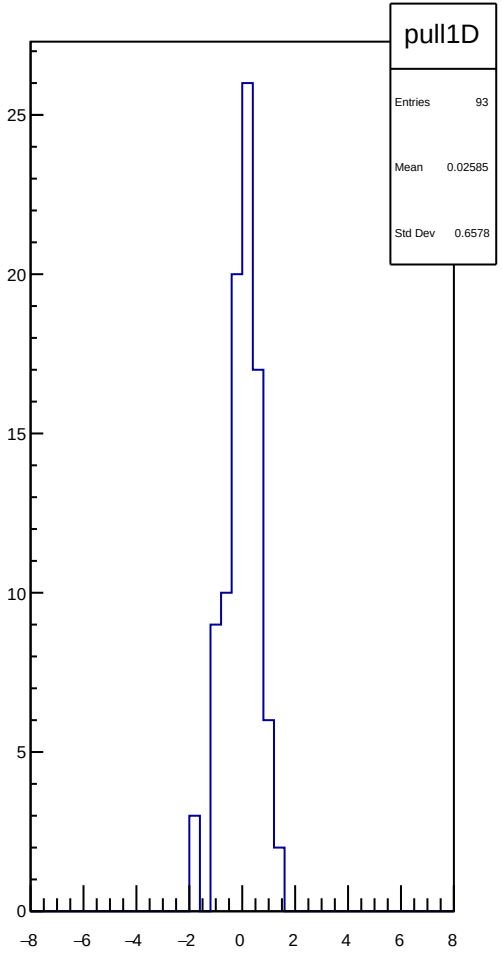

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.67 / 92
p0 −21.55 ± 2.707
pull
Entries 93
Mean −32.76
Std Dev 40.25

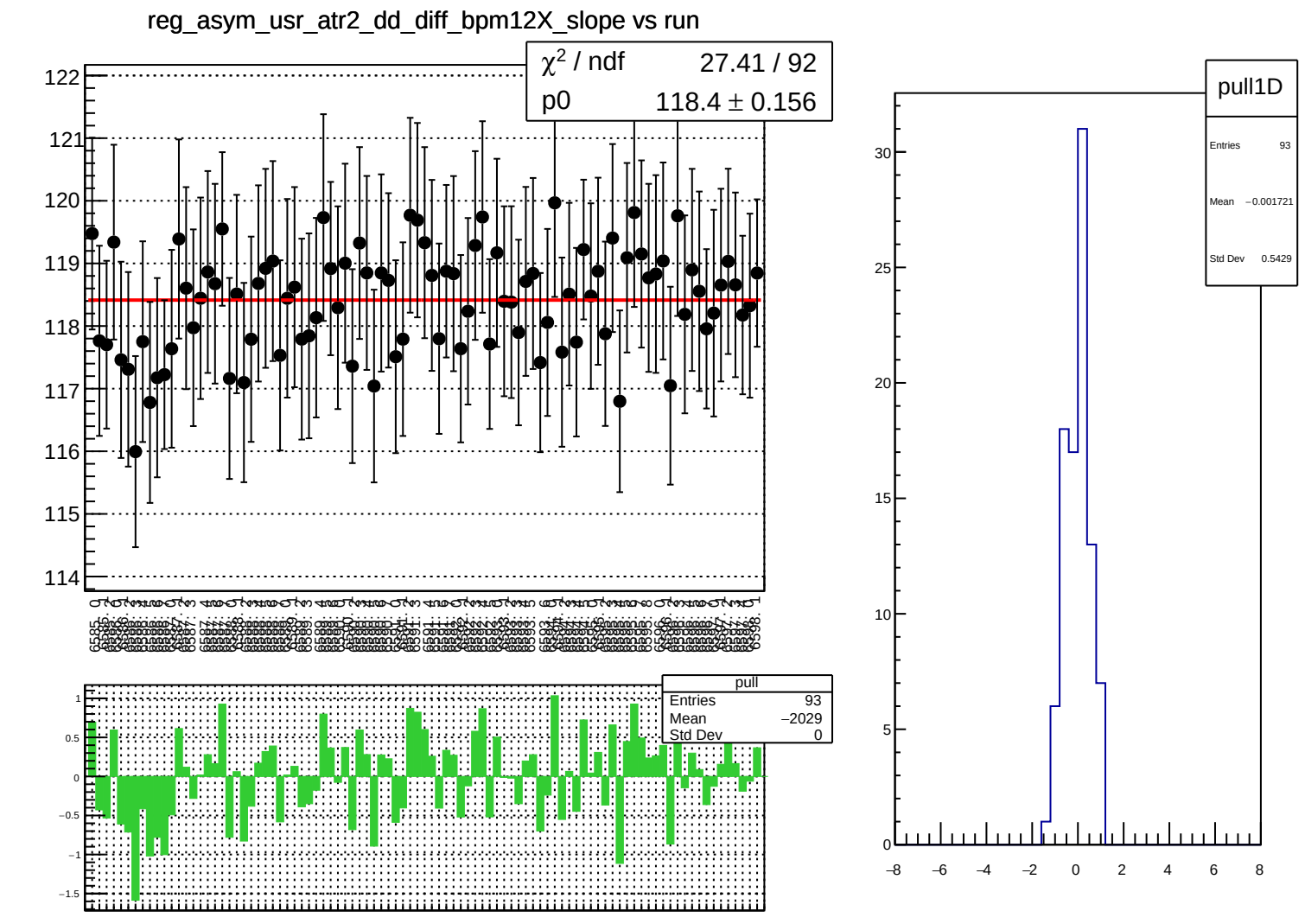

pull1D
Entries 93
Mean −0.02258
Std Dev 0.6012

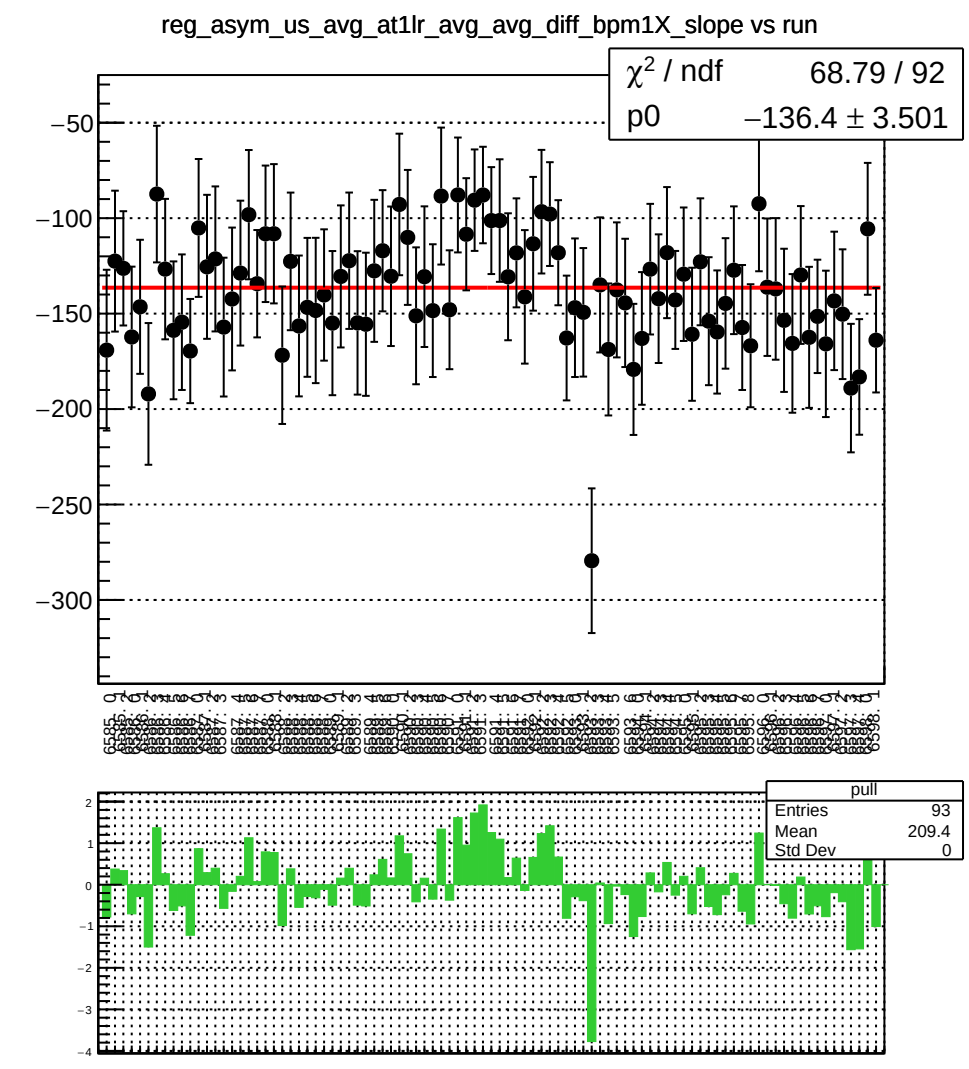

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.9 / 92
p0 −221.6 ± 3.799
−100
−150
−200
−250
−300
pull
Entries 93
Mean 88.77
Std Dev 44.93
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

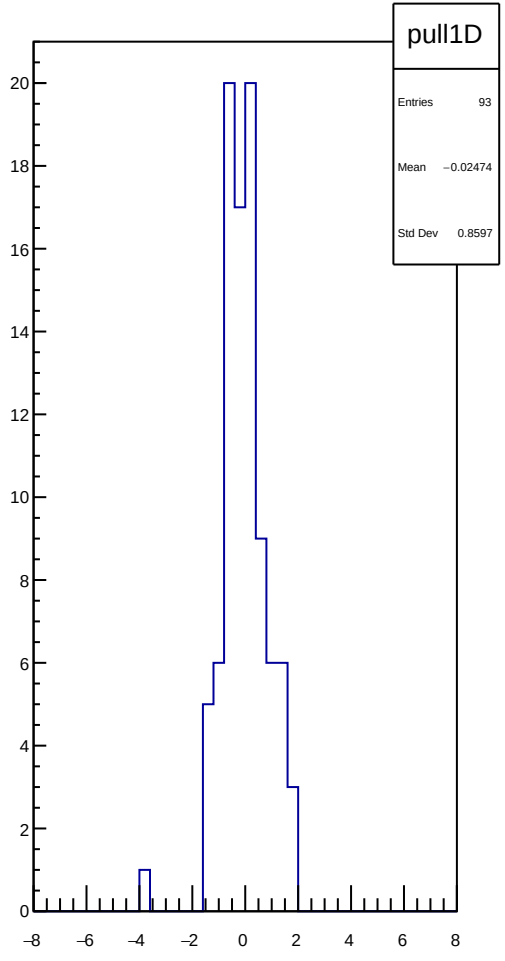

pull1D
Entries 93
Mean −0.05485
Std Dev 0.8527
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

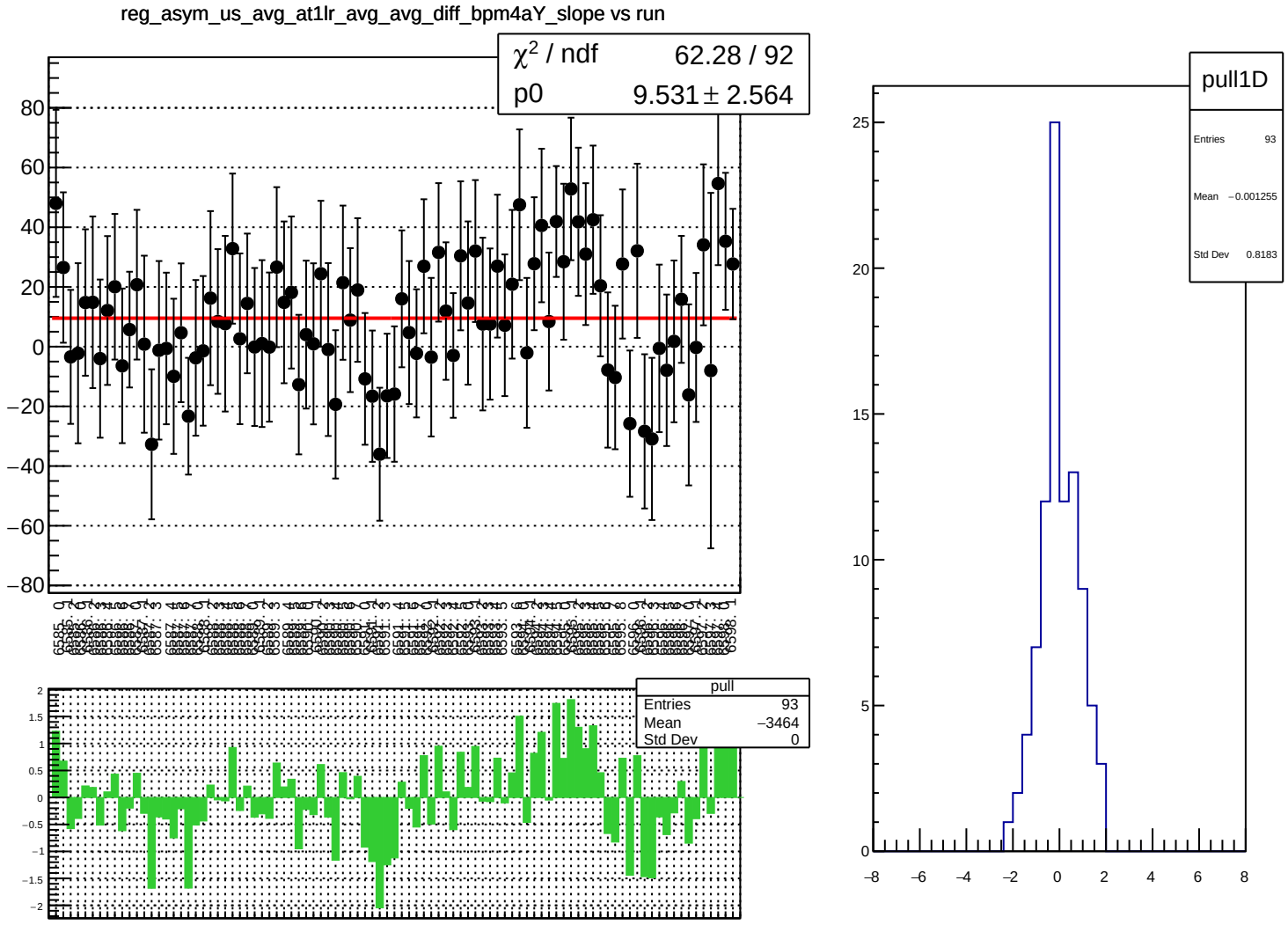

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.31 / 92
p0 −43.42 ± 3.222
pull
Entries 93
Mean −43.23
Std Dev 0

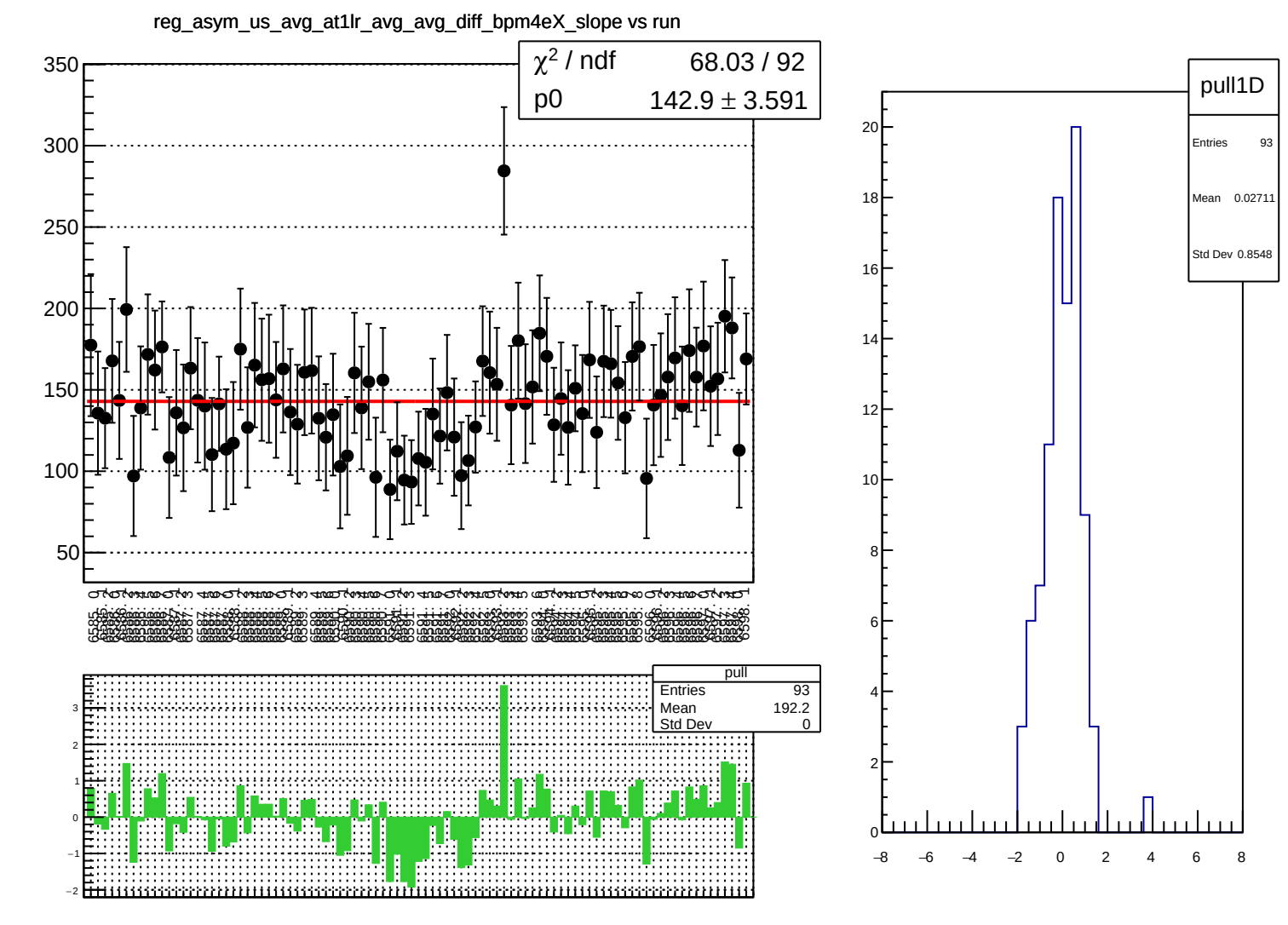

pull1D
Entries 93
Mean 0.02585
Std Dev 0.6578

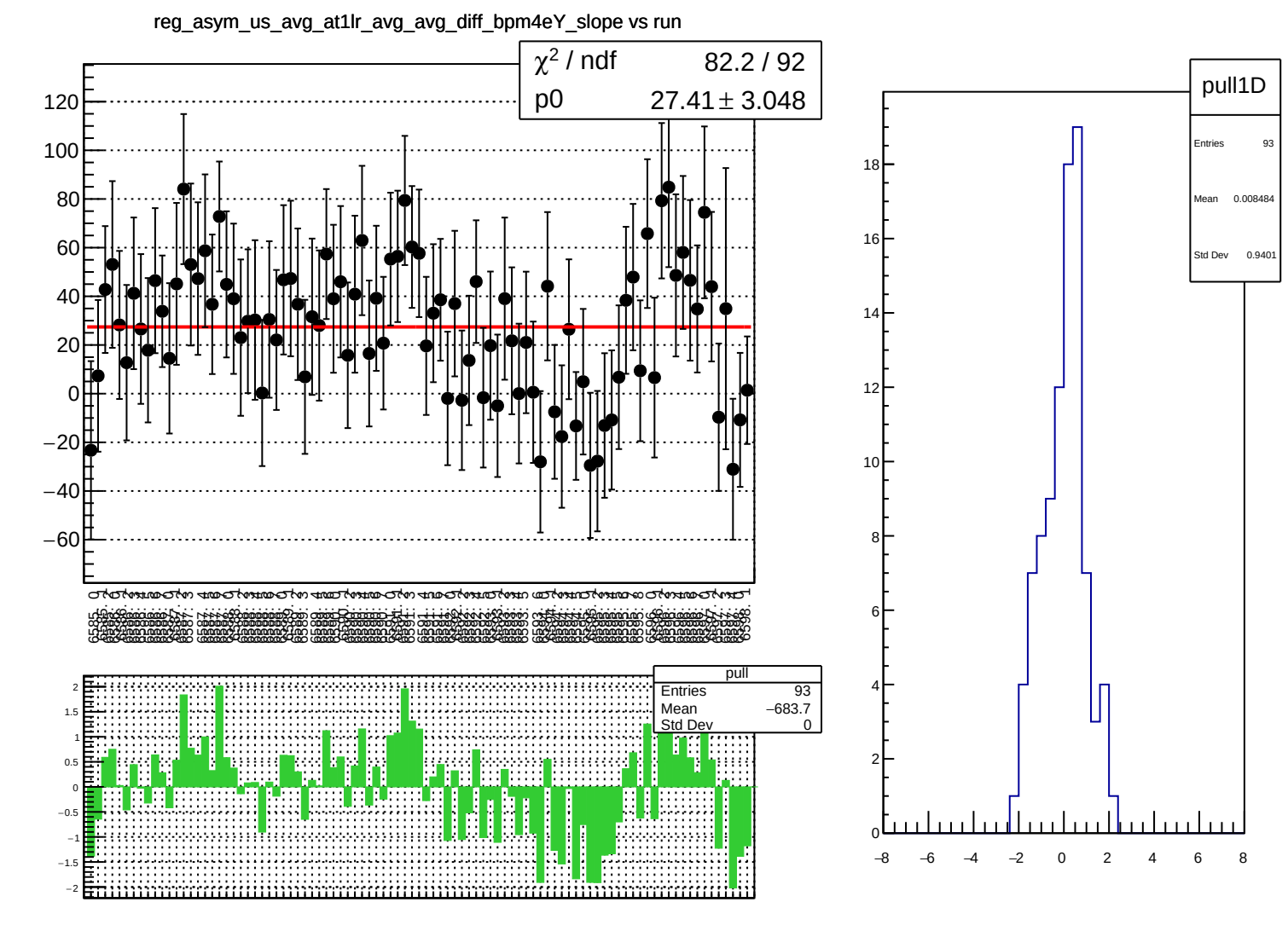

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 27.41 / 92
p0 118.4 ± 0.156
pull
Entries 93
Mean −2029
Std Dev 0
pull1D
Entries 93
Mean −0.001721
Std Dev 0.5429

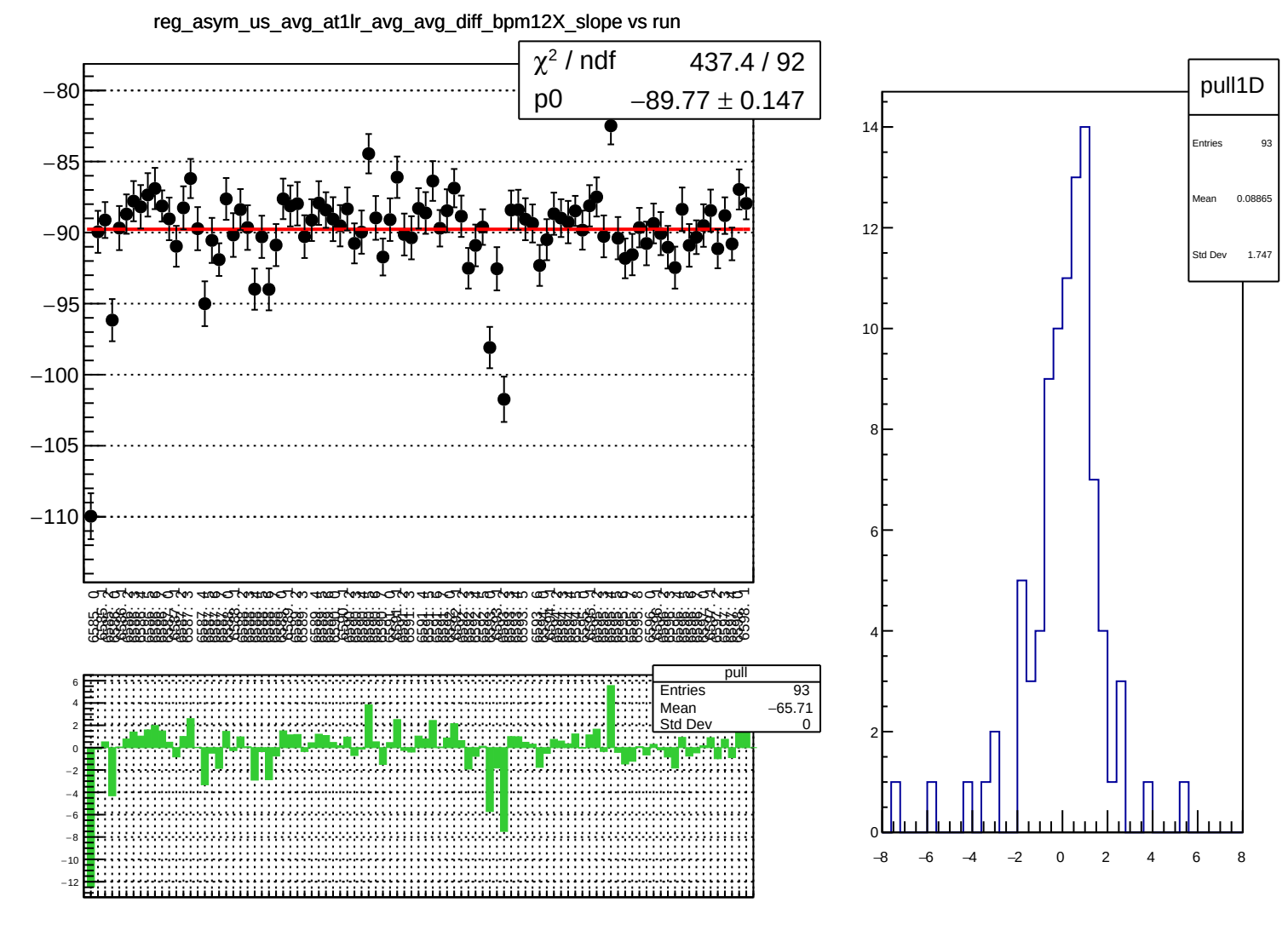

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 68.79 / 92
p0 −136.4 ± 3.501
−50
−100
−150
−200
−250
−300
pull
Entries 93
Mean 209.4
Std Dev 0
2
1
0
−1
−2
−3
−4

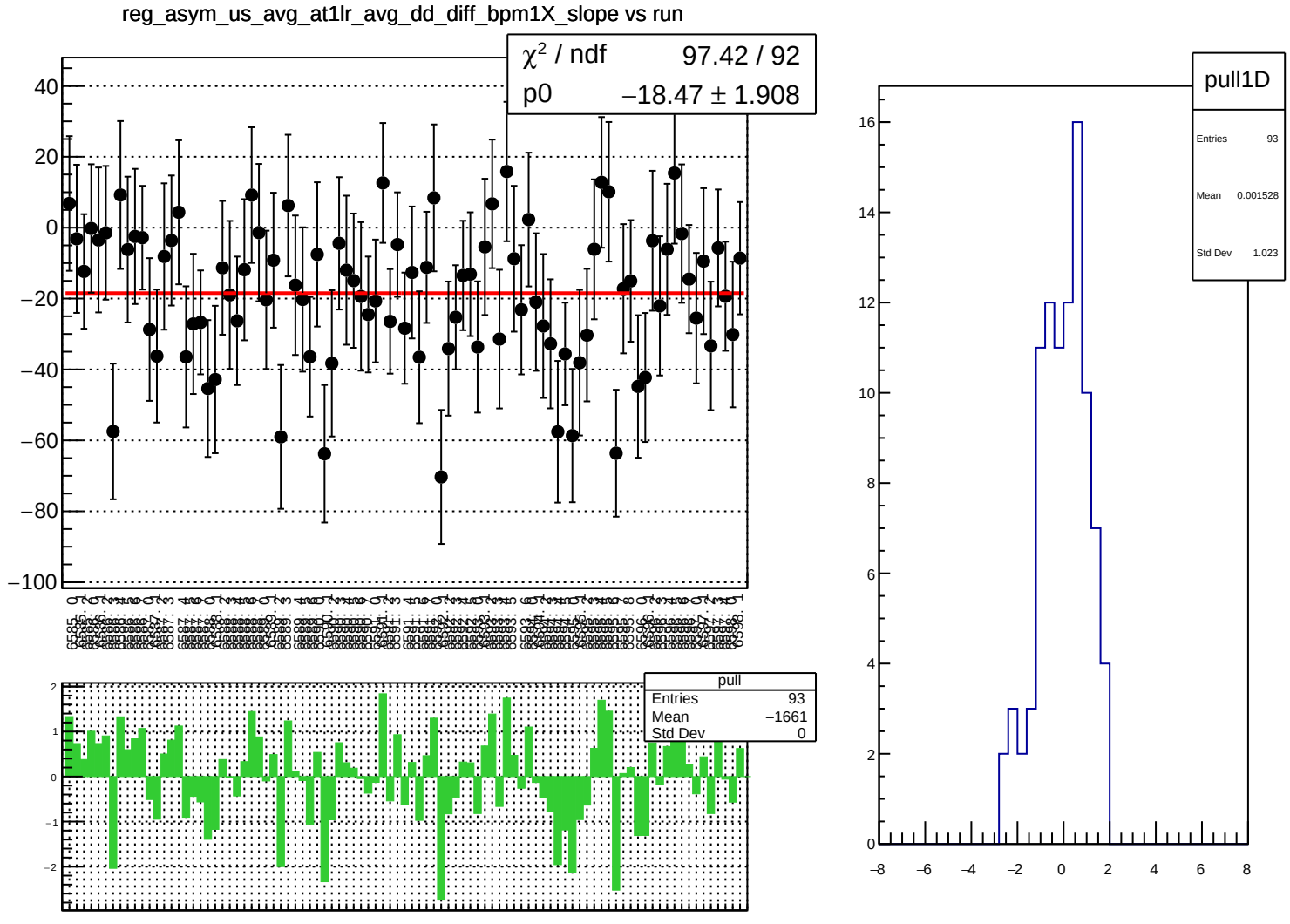

pull1D
Entries 93
Mean −0.02474
Std Dev 0.8597
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

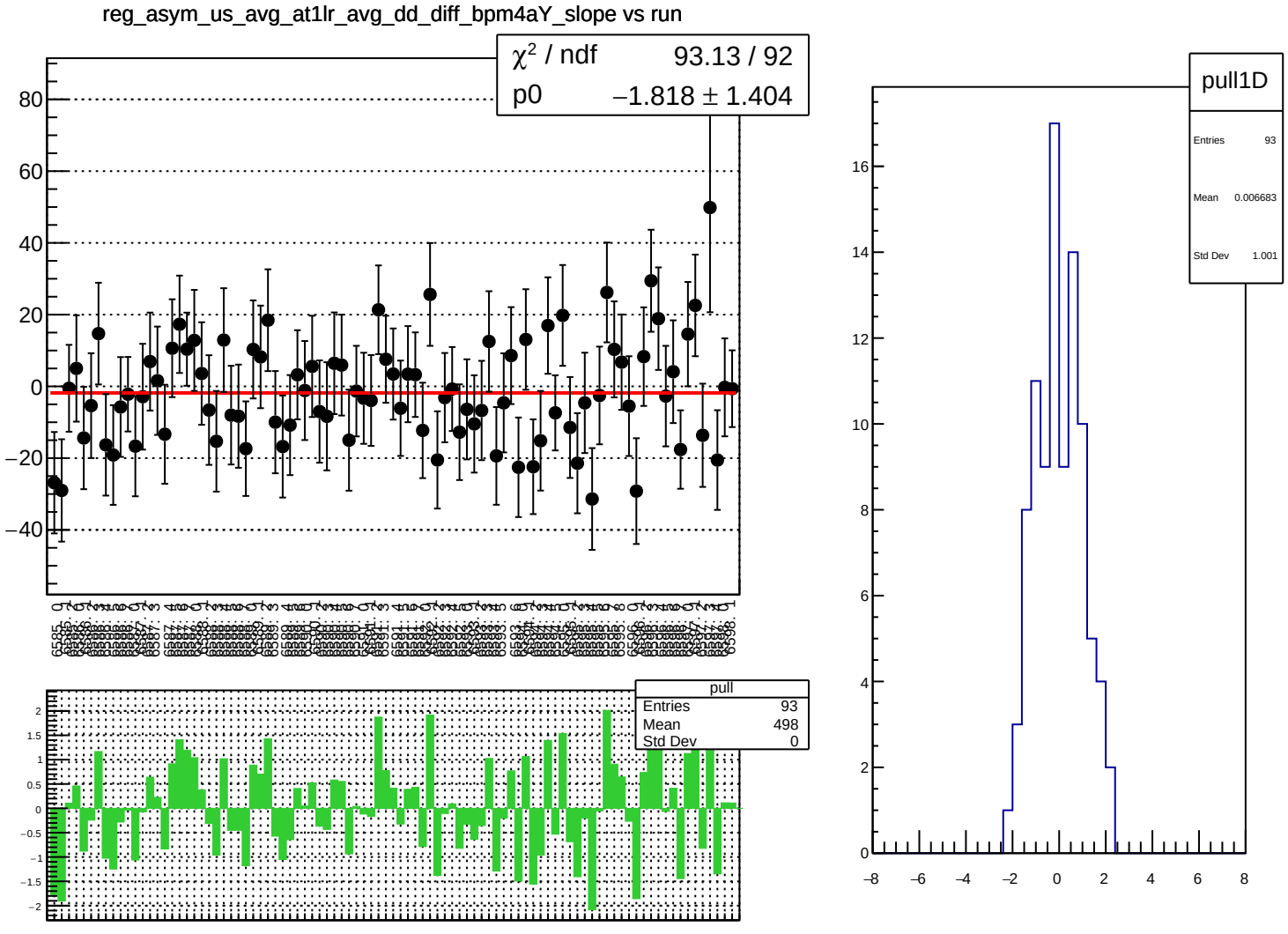

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.28 / 92
p0 9.531 ± 2.564
pull
Entries 93
Mean −3464
Std Dev 0
pull1D
Entries 93
Mean −0.001255
Std Dev 0.8183

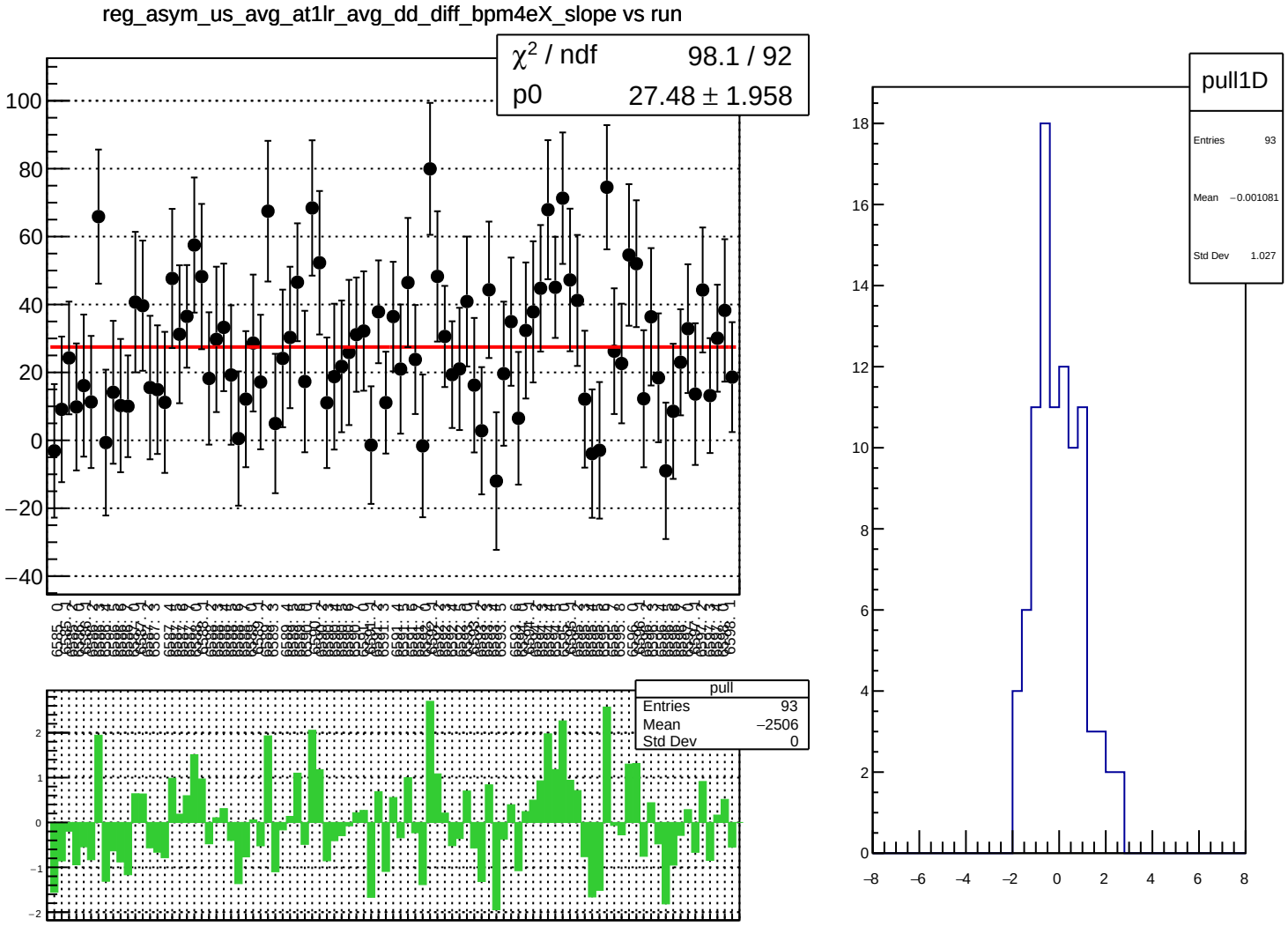

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.03 / 92
p0 142.9 ± 3.591
pull
Entries 93
Mean 192.2
Std Dev 0
pull1D
Entries 93
Mean 0.02711
Std Dev 0.8548

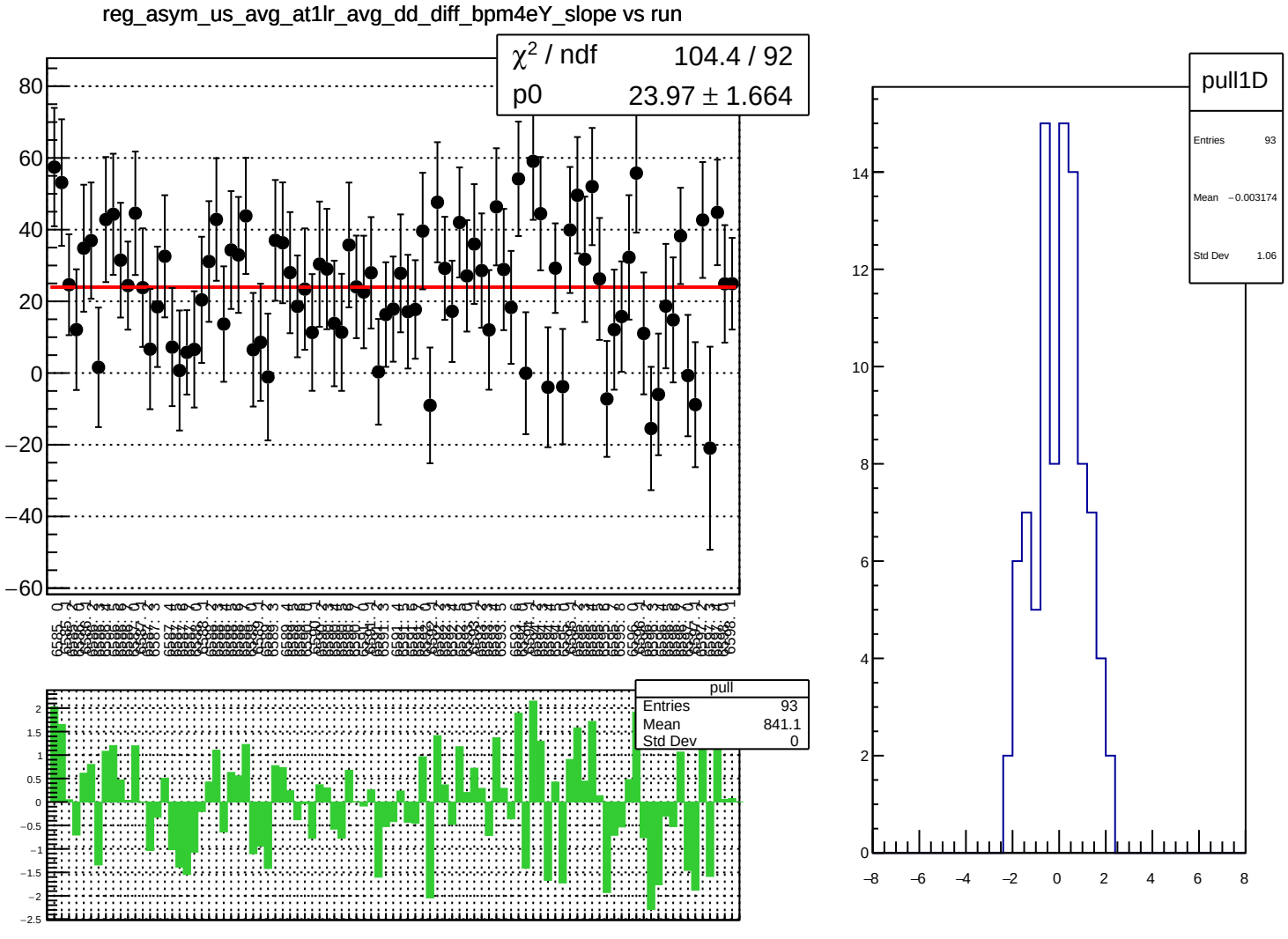

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.2 / 92
p0 27.41 ± 3.048
pull
Entries 93
Mean −683.7
Std Dev 0
pull1D
Entries 93
Mean 0.008484
Std Dev 0.9401

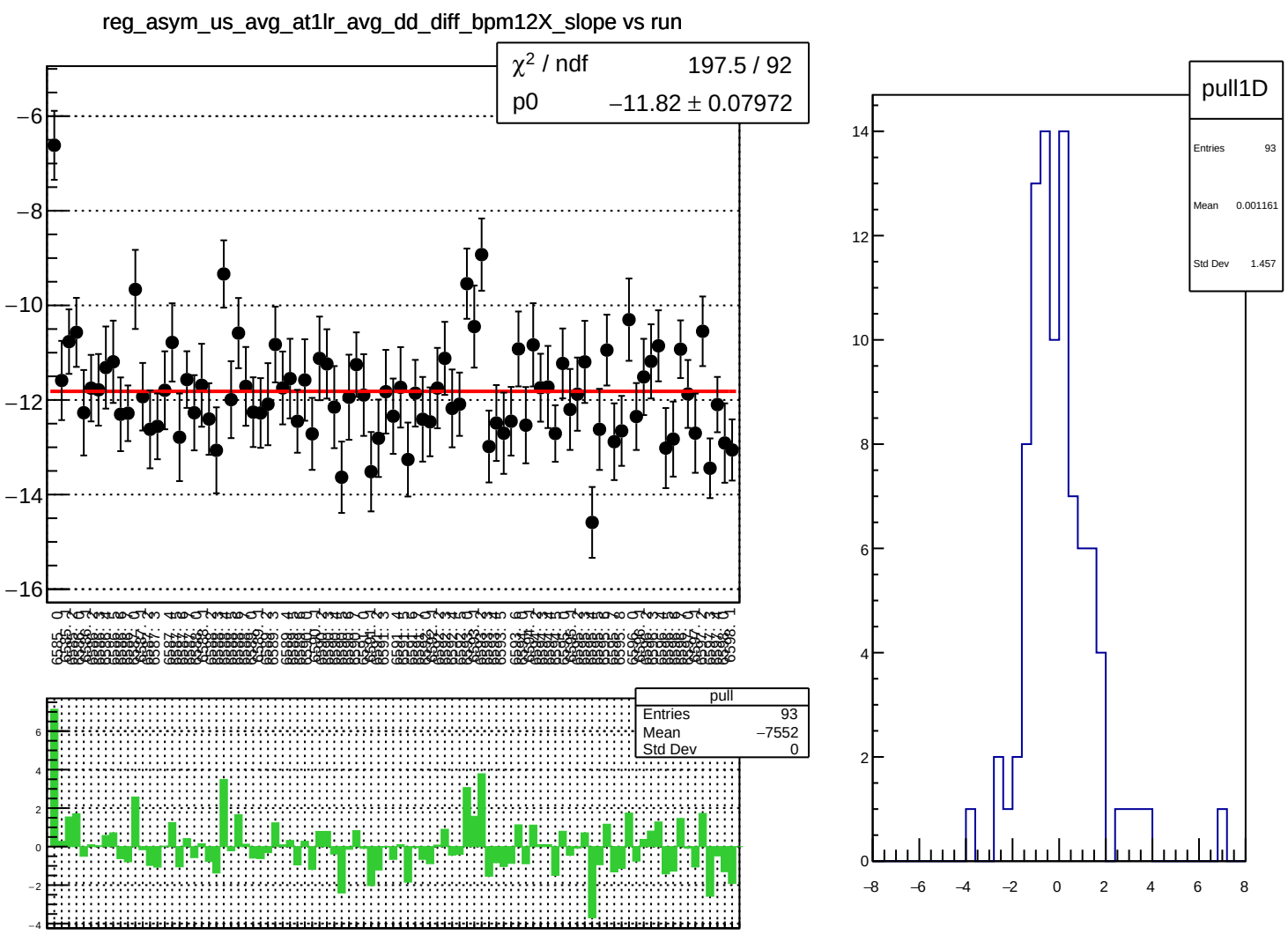

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 437.4 / 92
p0 −89.77 ± 0.147
−80
−85
−90
−95
−100
−105
−110
pull
Entries 93
Mean −65.71
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 93
Mean 0.08865
Std Dev 1.747
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

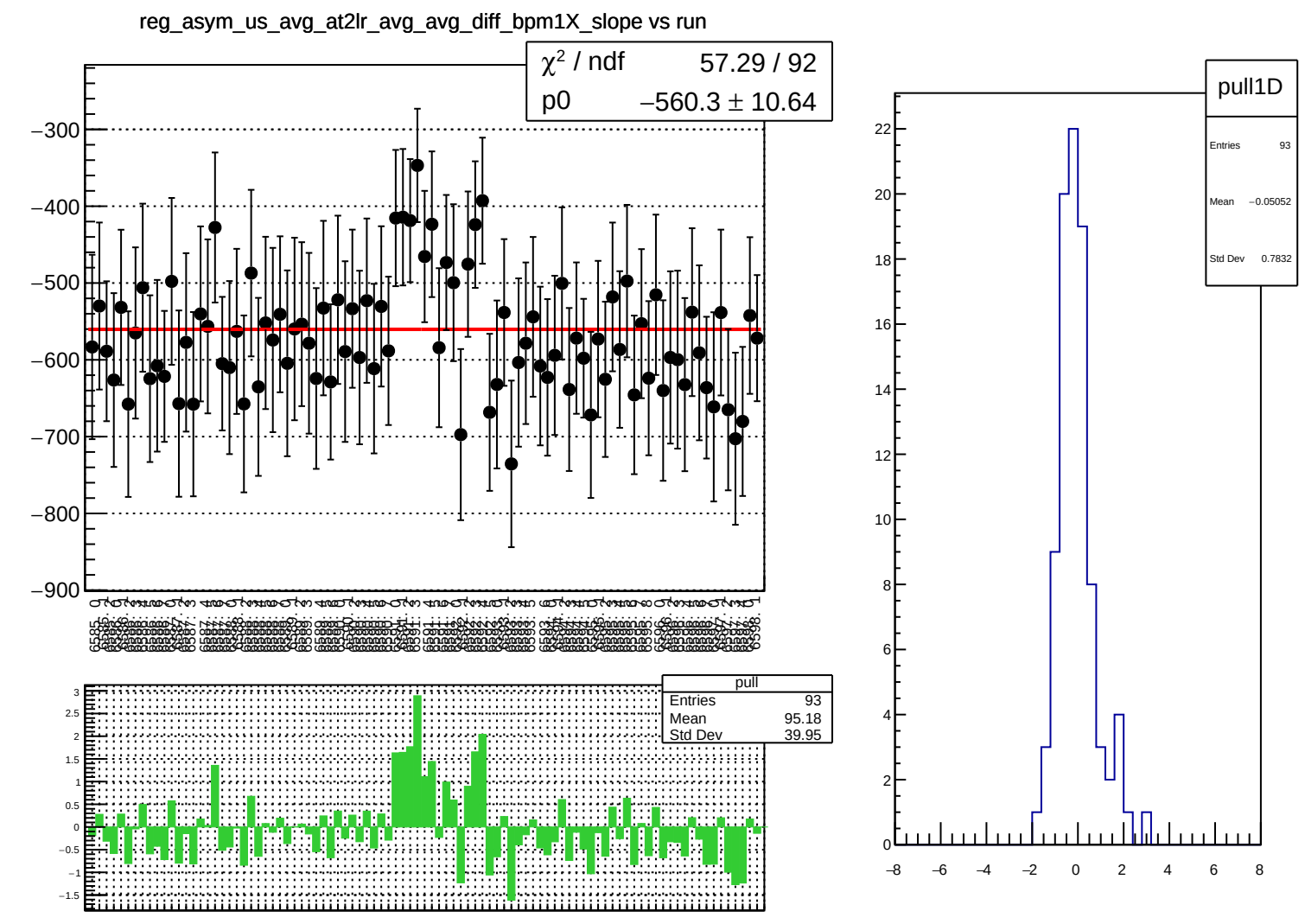

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 97.42 / 92
p0 −18.47 ± 1.908
pull
Entries 93
Mean −1661
Std Dev 0
pull1D
Entries 93
Mean 0.001528
Std Dev 1.023

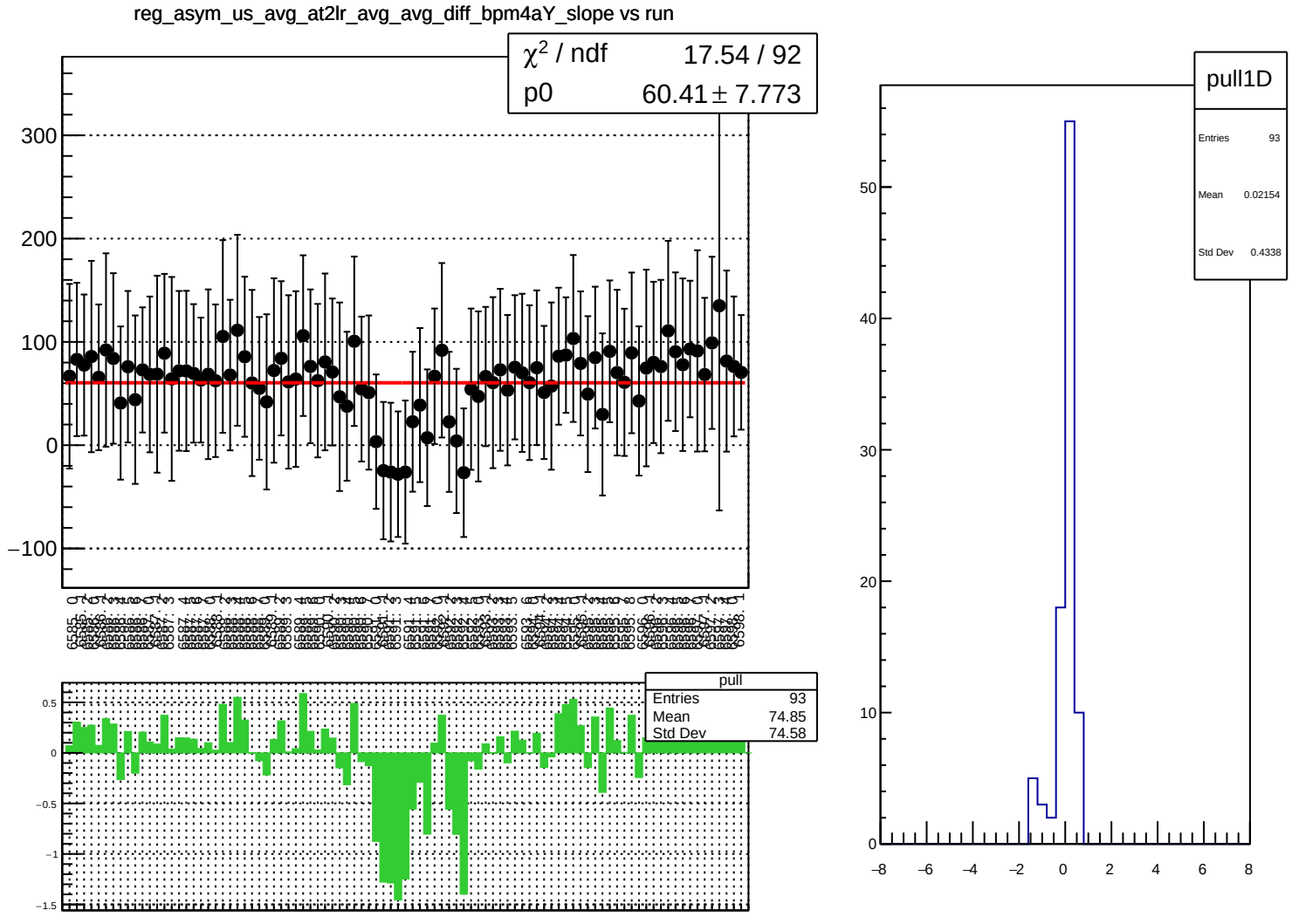

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.13 / 92
p0 −1.818 ± 1.404
pull
Entries 93
Mean 498
Std Dev 0
pull1D
Entries 93
Mean 0.006683
Std Dev 1.001

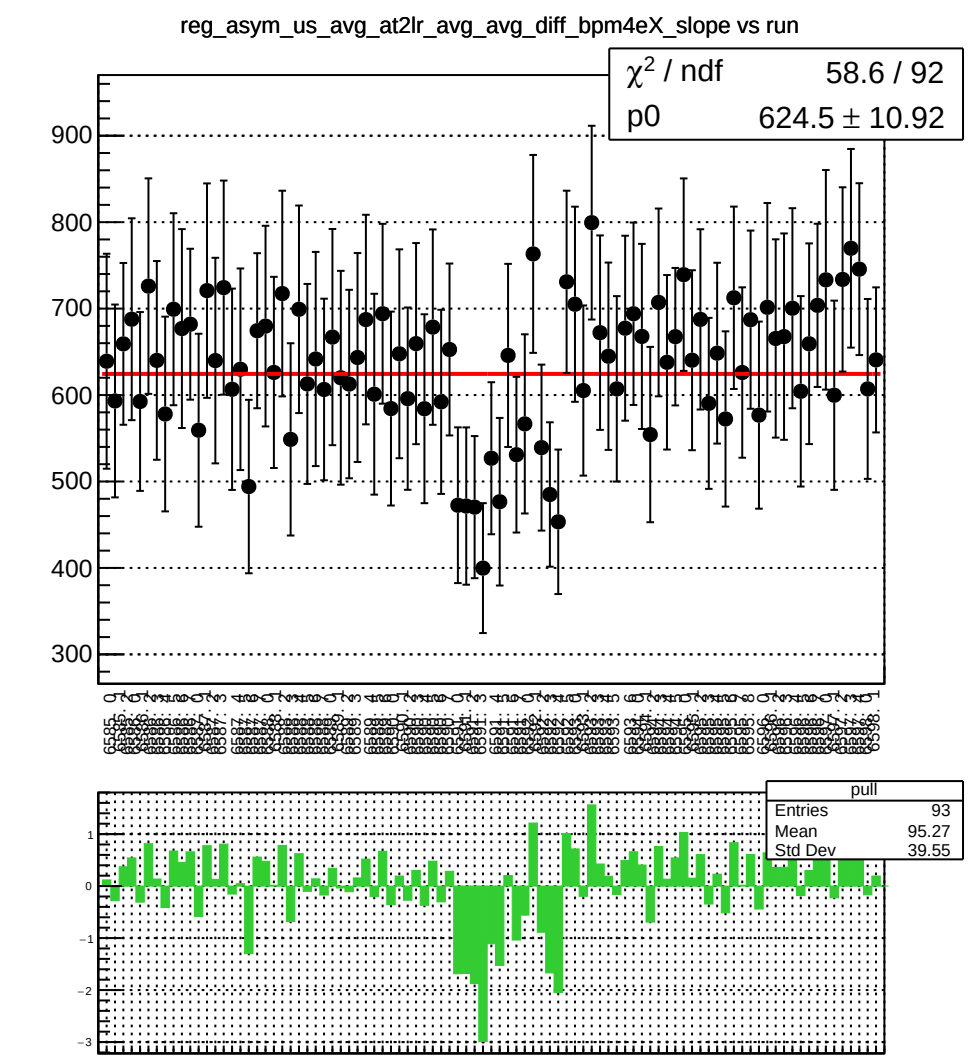

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.1 / 92
p0 27.48 ± 1.958
pull
Entries 93
Mean −2506
Std Dev 0
pull1D
Entries 93
Mean −0.001081
Std Dev 1.027

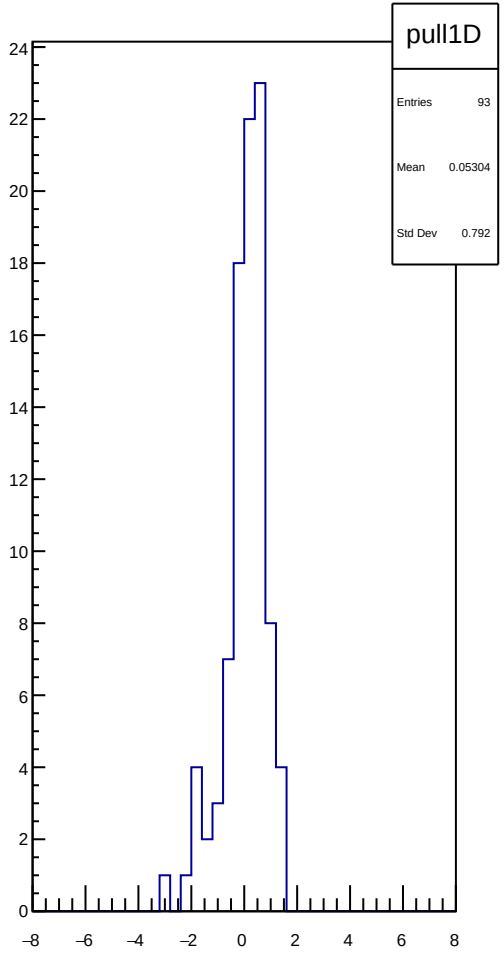

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 104.4 / 92
p0 23.97 ± 1.664
pull
Entries 93
Mean 841.1
Std Dev 0
pull1D
Entries 93
Mean −0.003174
Std Dev 1.06

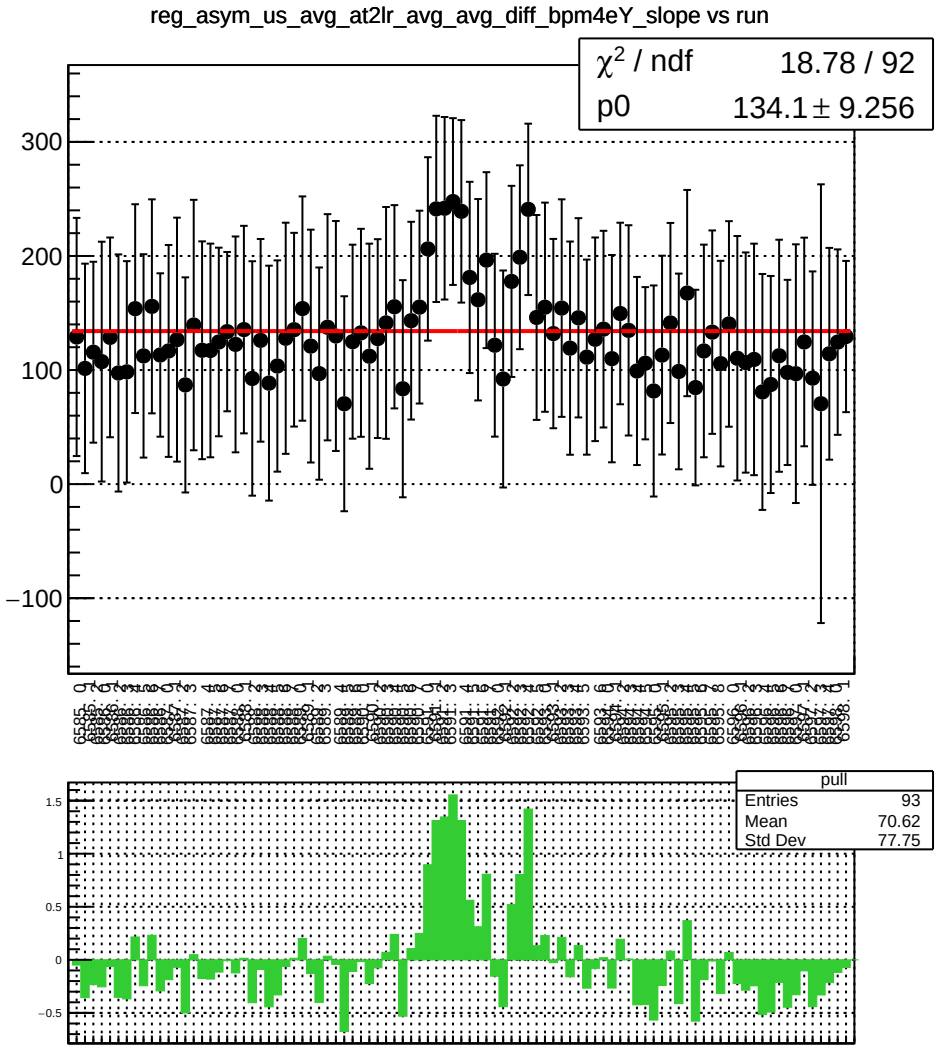

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 197.5 / 92
p0 −11.82 ± 0.07972
pull
Entries 93
Mean −7552
Std Dev 0
pull1D
Entries 93
Mean 0.001161
Std Dev 1.457

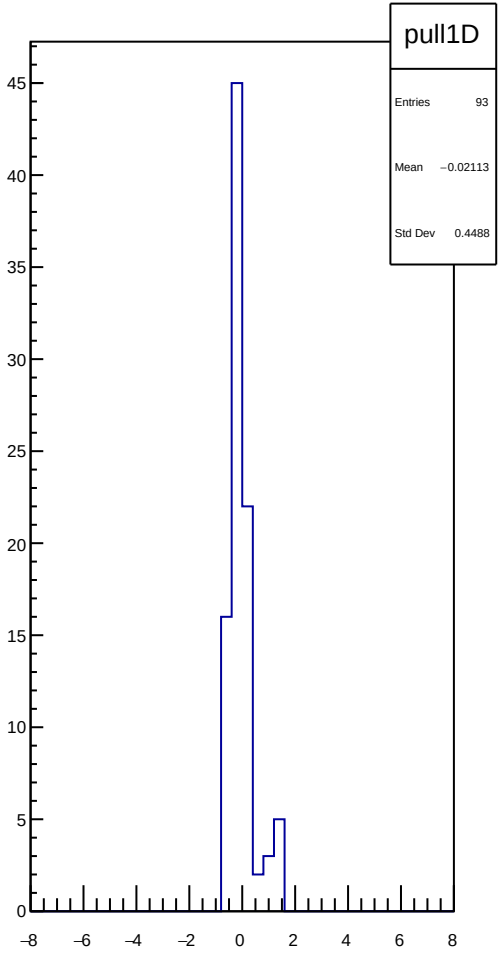

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 57.29 / 92
p0 −560.3 ± 10.64
−300
−400
−500
−600
−700
−800
−900
pull
Entries 93
Mean 95.18
Std Dev 39.95
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.05052
Std Dev 0.7832
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

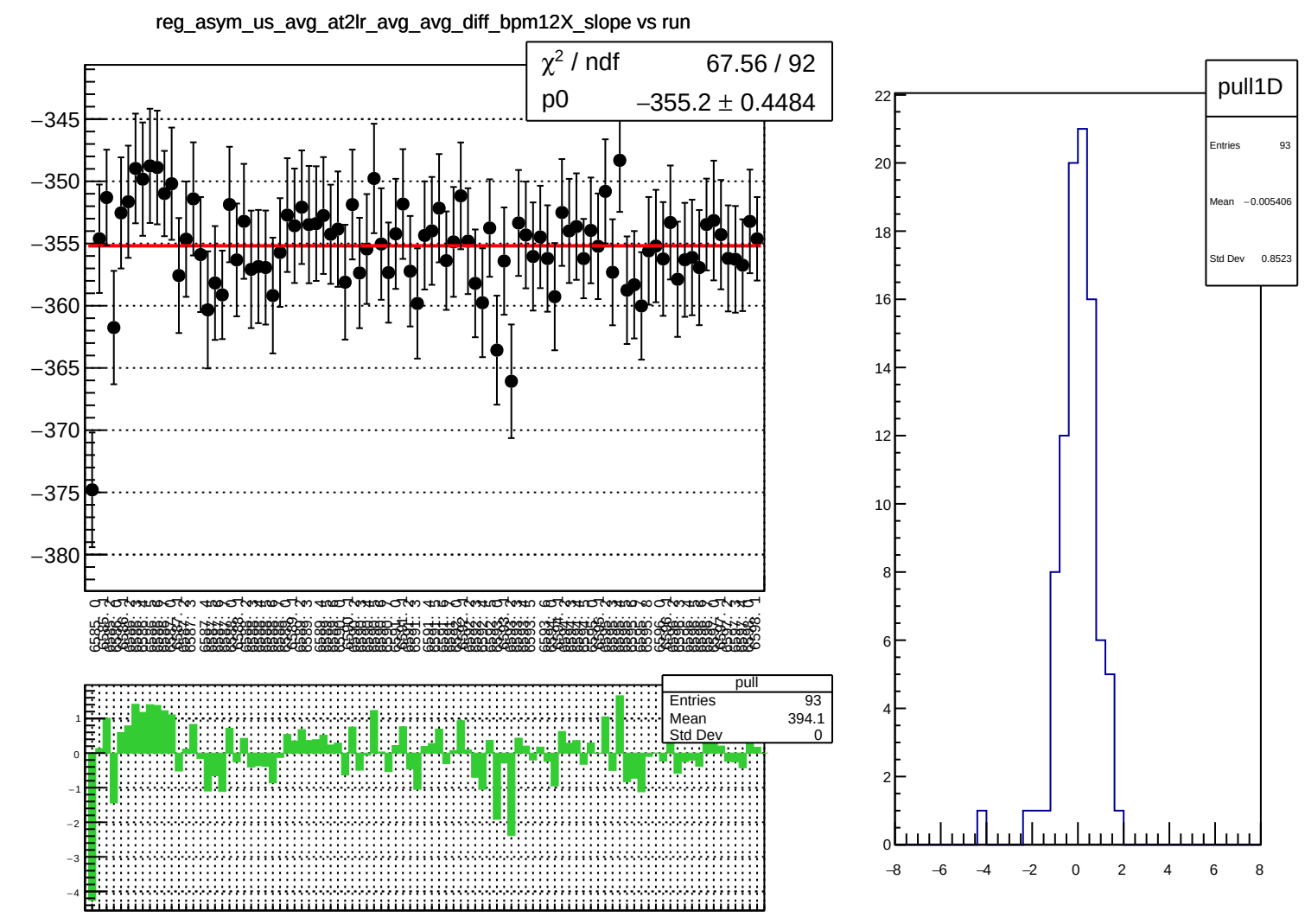

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.54 / 92
p0 60.41 ± 7.773
300
200
100
0
−100
pull
Entries 93
Mean 74.85
Std Dev 74.58
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.02154
Std Dev 0.4338
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

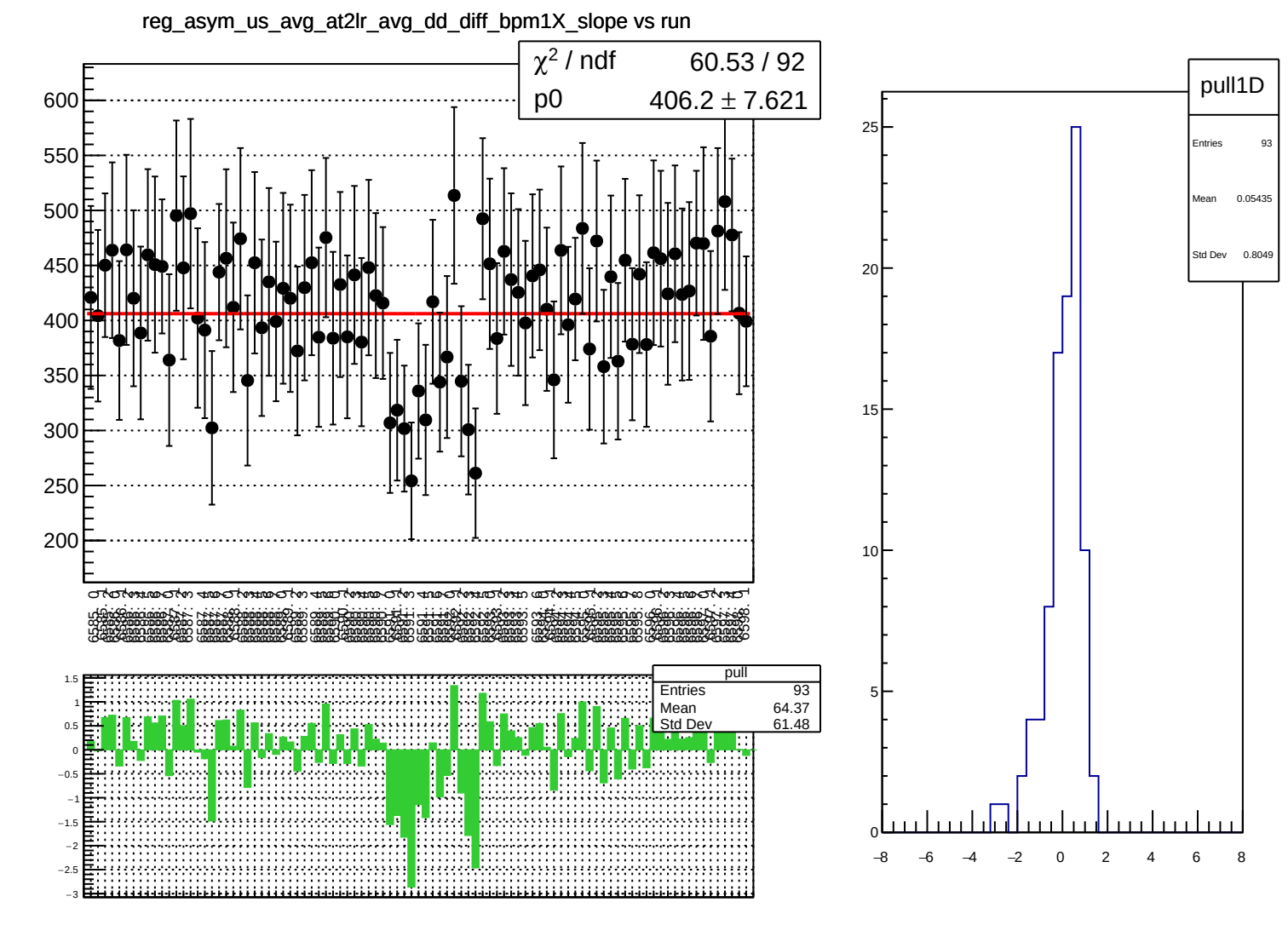

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.6 / 92
p0 624.5 ± 10.92
900
800
700
600
500
400
300
pull
Entries 93
Mean 95.27
Std Dev 39.55
1
0
−1
−2
−3

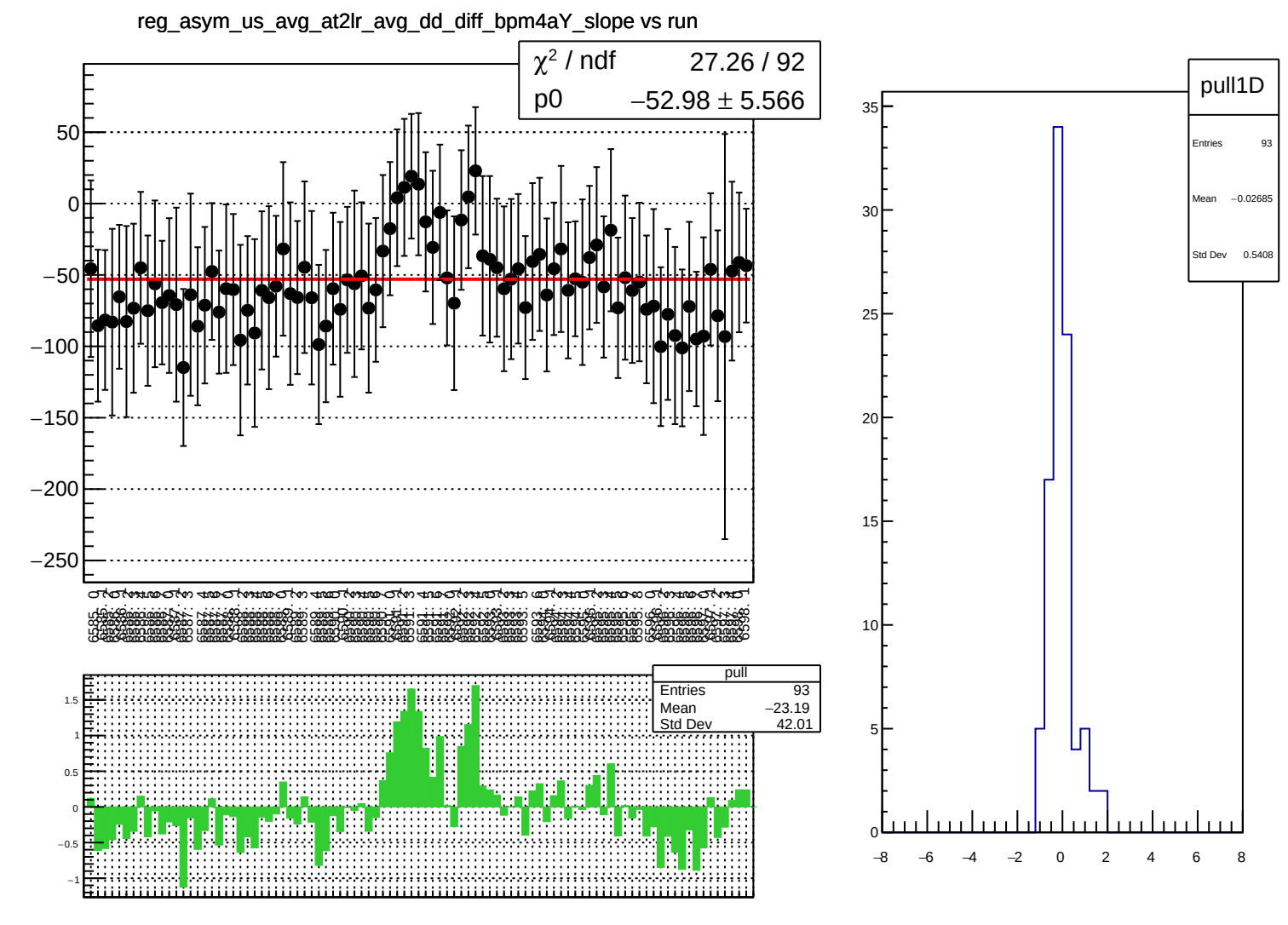

pull1D
Entries 93
Mean 0.05304
Std Dev 0.792
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

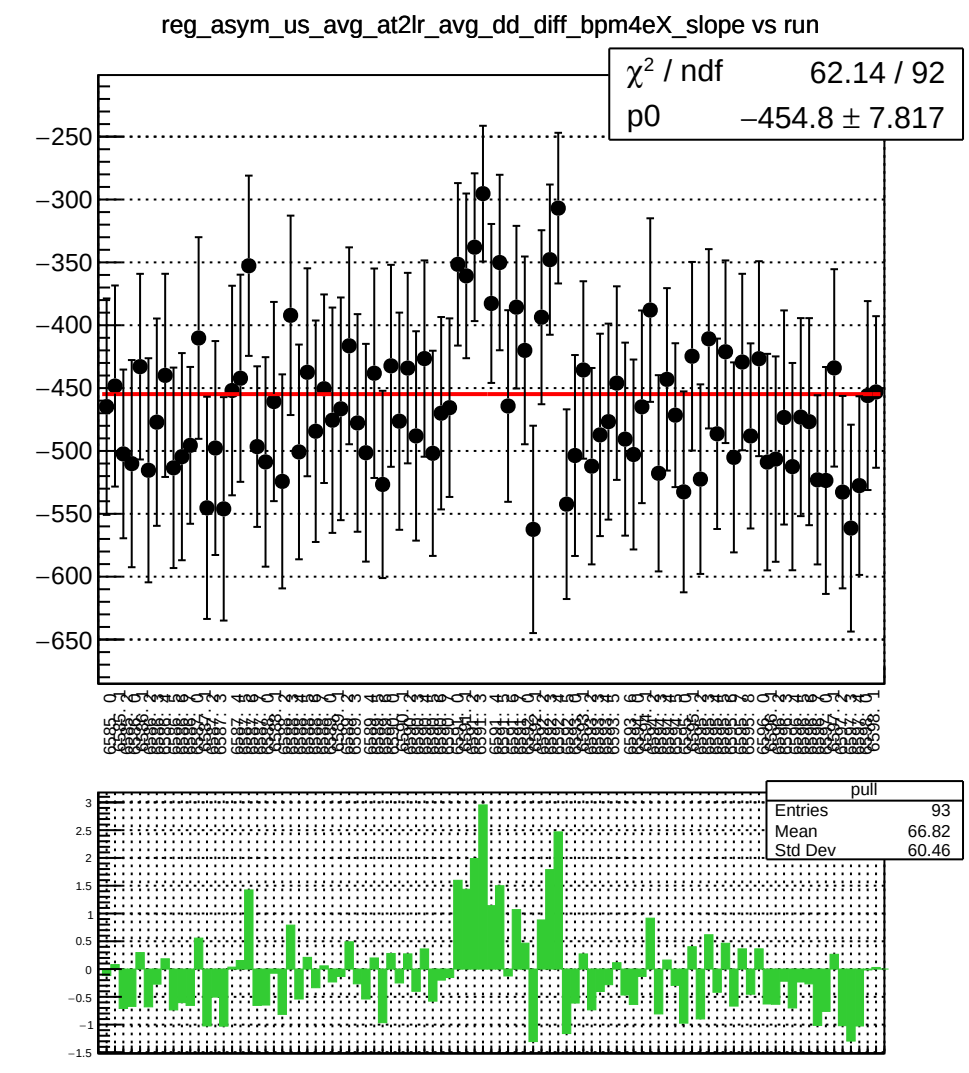

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.78 / 92
p0 134.1 ± 9.256
300
200
100
0
−100
pull
Entries 93
Mean 70.62
Std Dev 77.75
1.5
1
0.5
0
−0.5

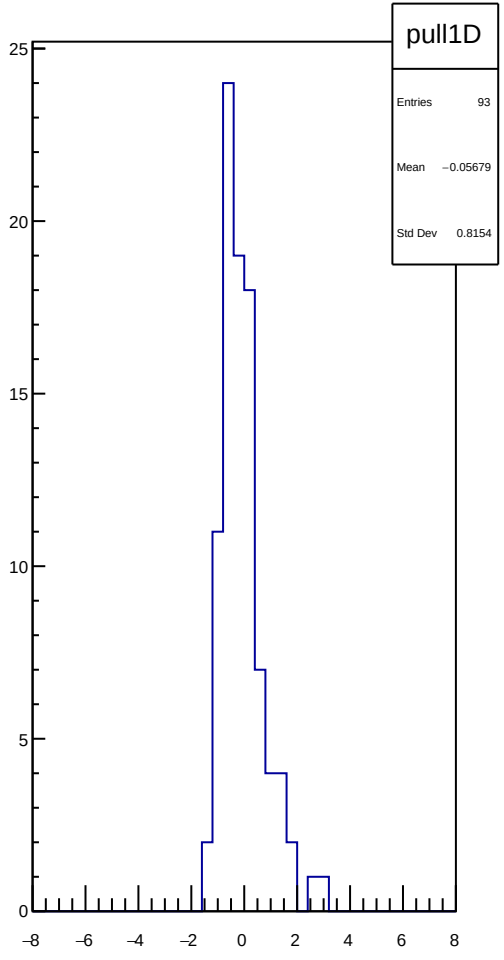

pull1D
Entries 93
Mean −0.02113
Std Dev 0.4488
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

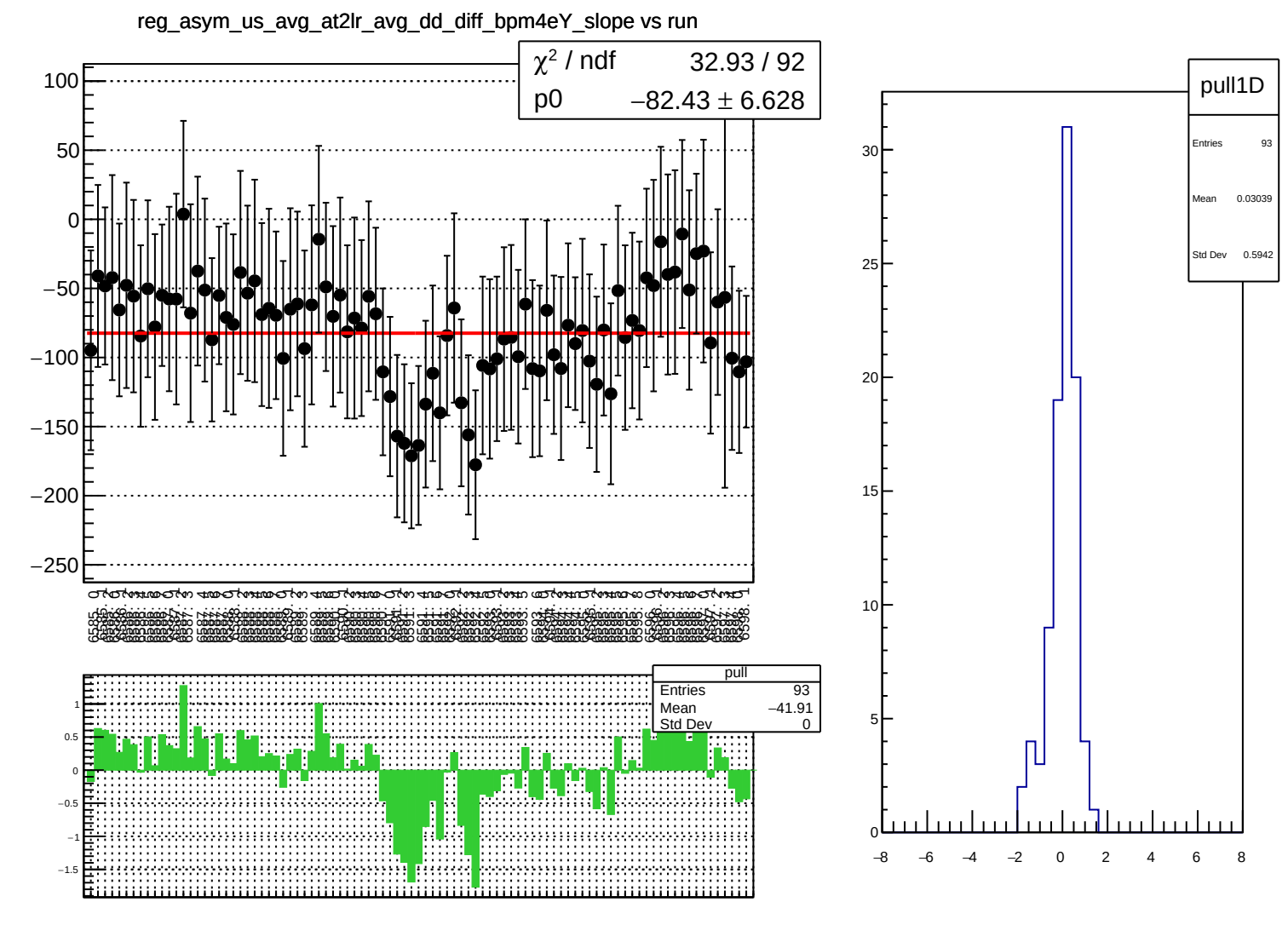

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 67.56 / 92
p0 −355.2 ± 0.4484
pull
Entries 93
Mean 394.1
Std Dev 0
pull1D
Entries 93
Mean −0.005406
Std Dev 0.8523

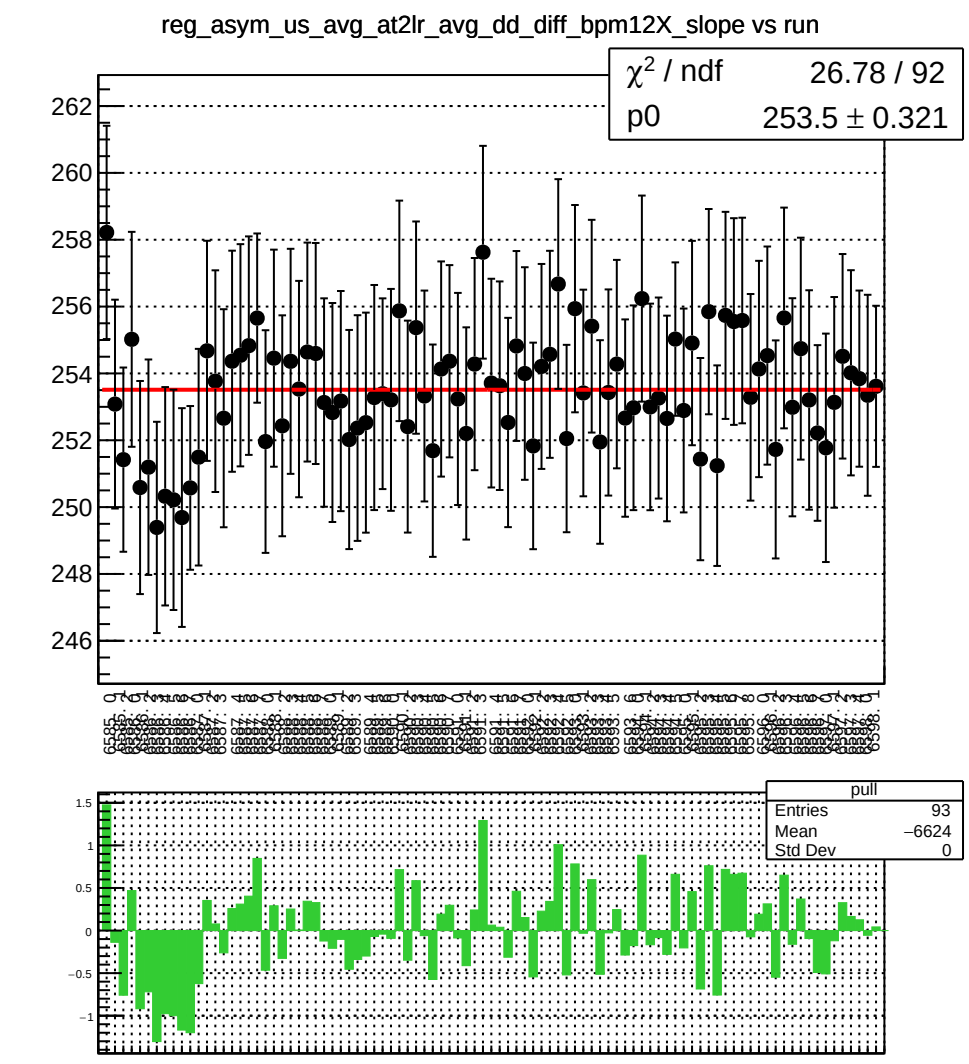

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 60.53 / 92
p0 406.2 ± 7.621
pull
Entries 93
Mean 64.37
Std Dev 61.48
pull1D
Entries 93
Mean 0.05435
Std Dev 0.8049

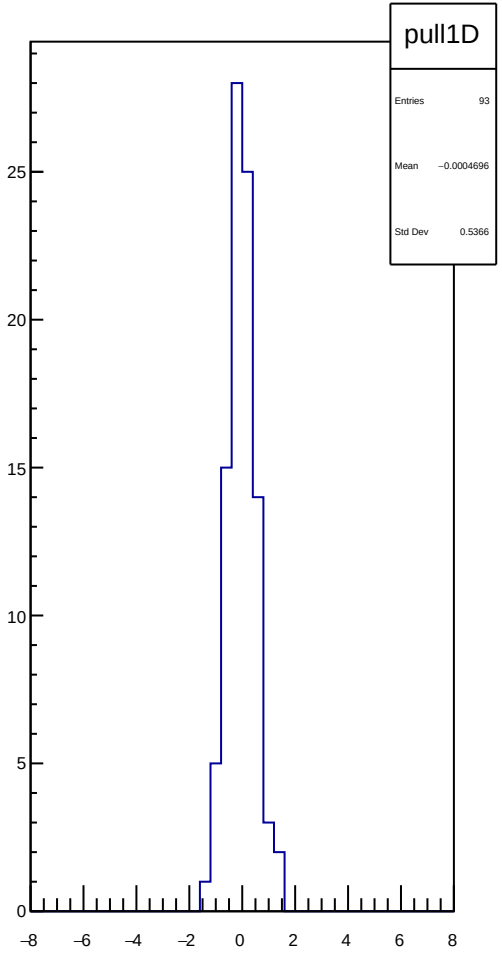

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.26 / 92
p0 −52.98 ± 5.566
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −23.19
Std Dev 42.01
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.02685
Std Dev 0.5408
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

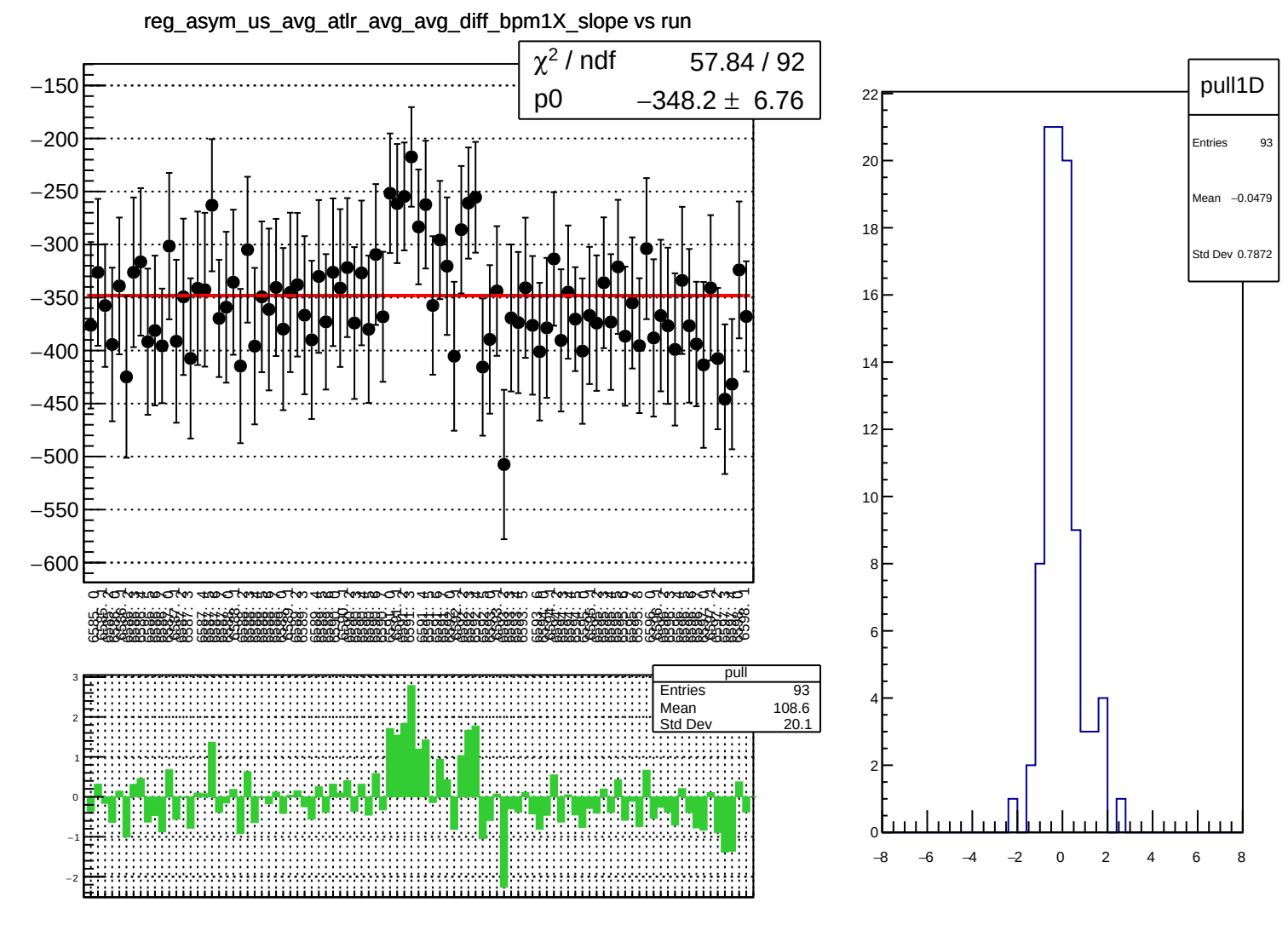

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.14 / 92
p0 −454.8 ± 7.817
−250
−300
−350
−400
−450
−500
−550
−600
−650
pull
Entries 93
Mean 66.82
Std Dev 60.46
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

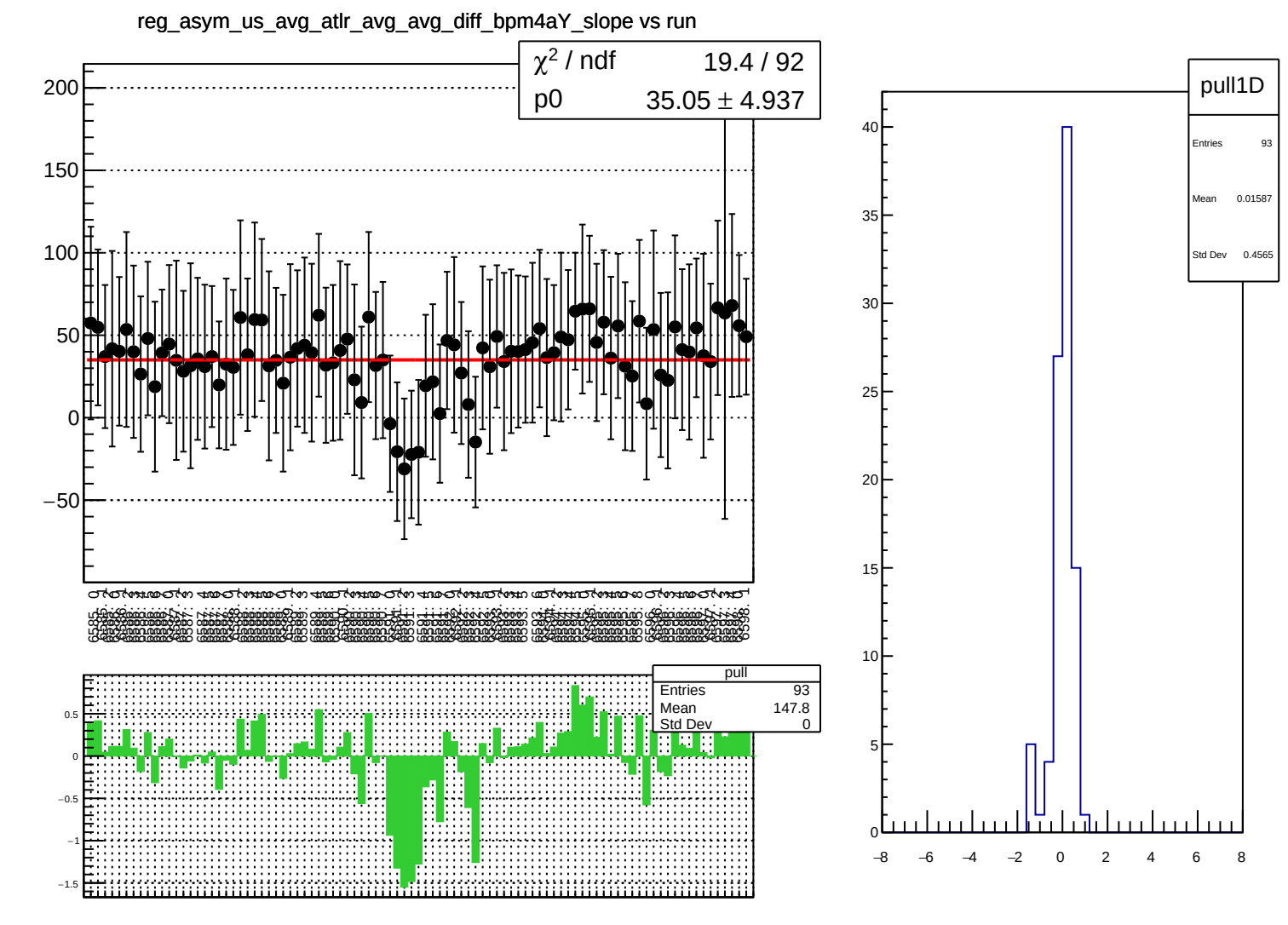

pull1D
Entries 93
Mean −0.05679
Std Dev 0.8154
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

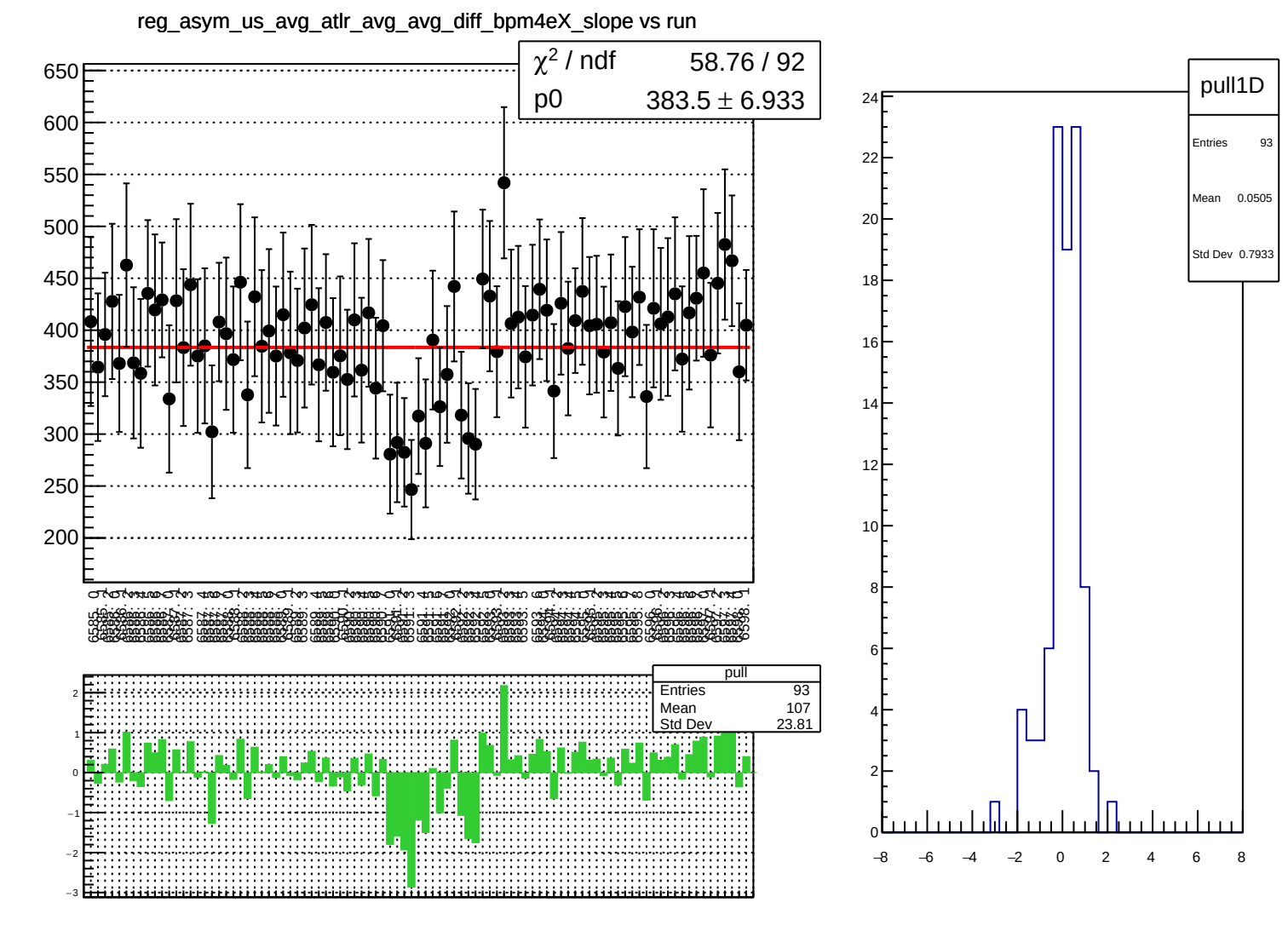

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.93 / 92
p0 −82.43 ± 6.628
pull
Entries 93
Mean −41.91
Std Dev 0
pull1D
Entries 93
Mean 0.03039
Std Dev 0.5942

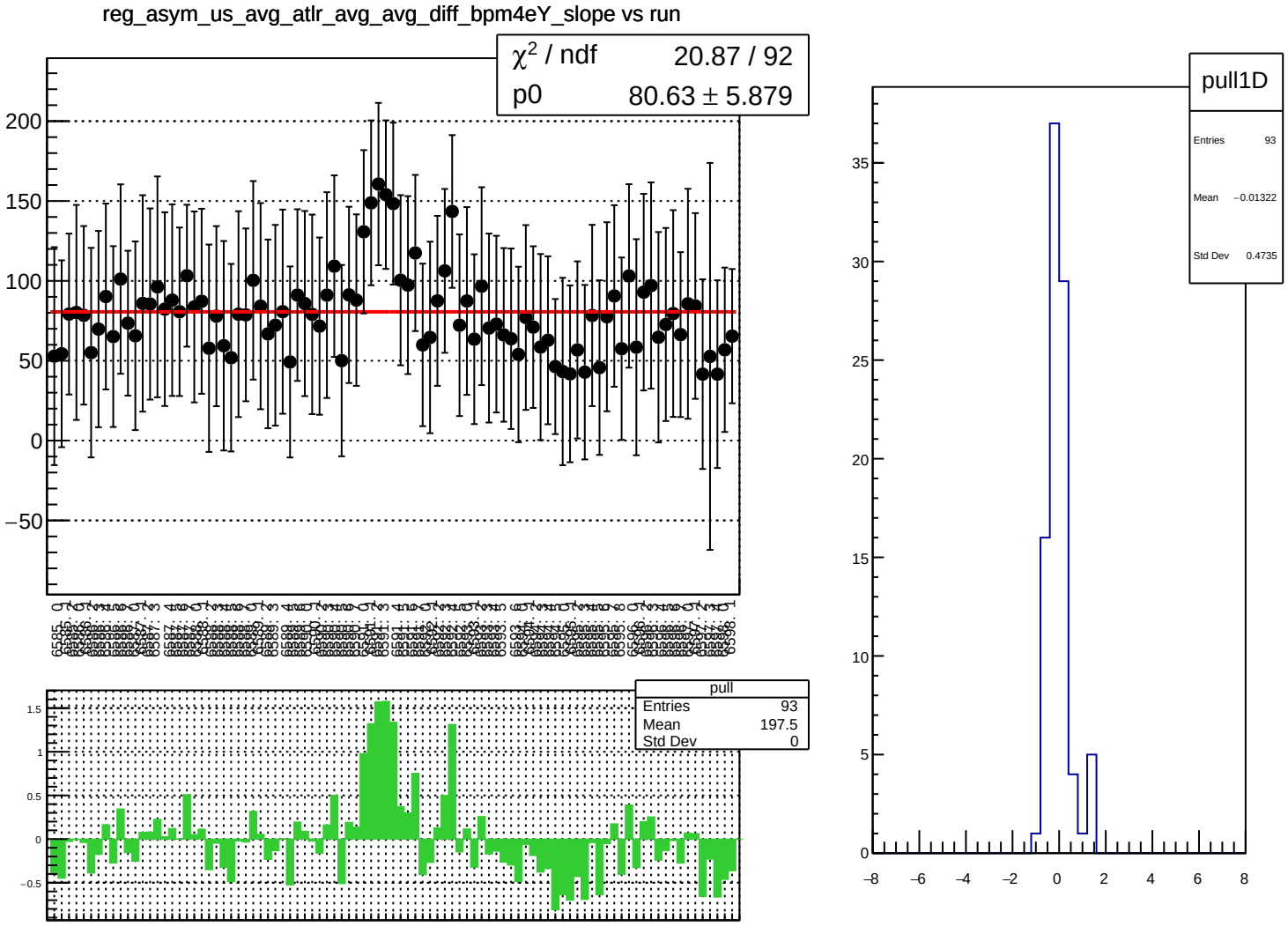

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 26.78 / 92
p0 253.5 ± 0.321
pull
Entries 93
Mean −6624
Std Dev 0

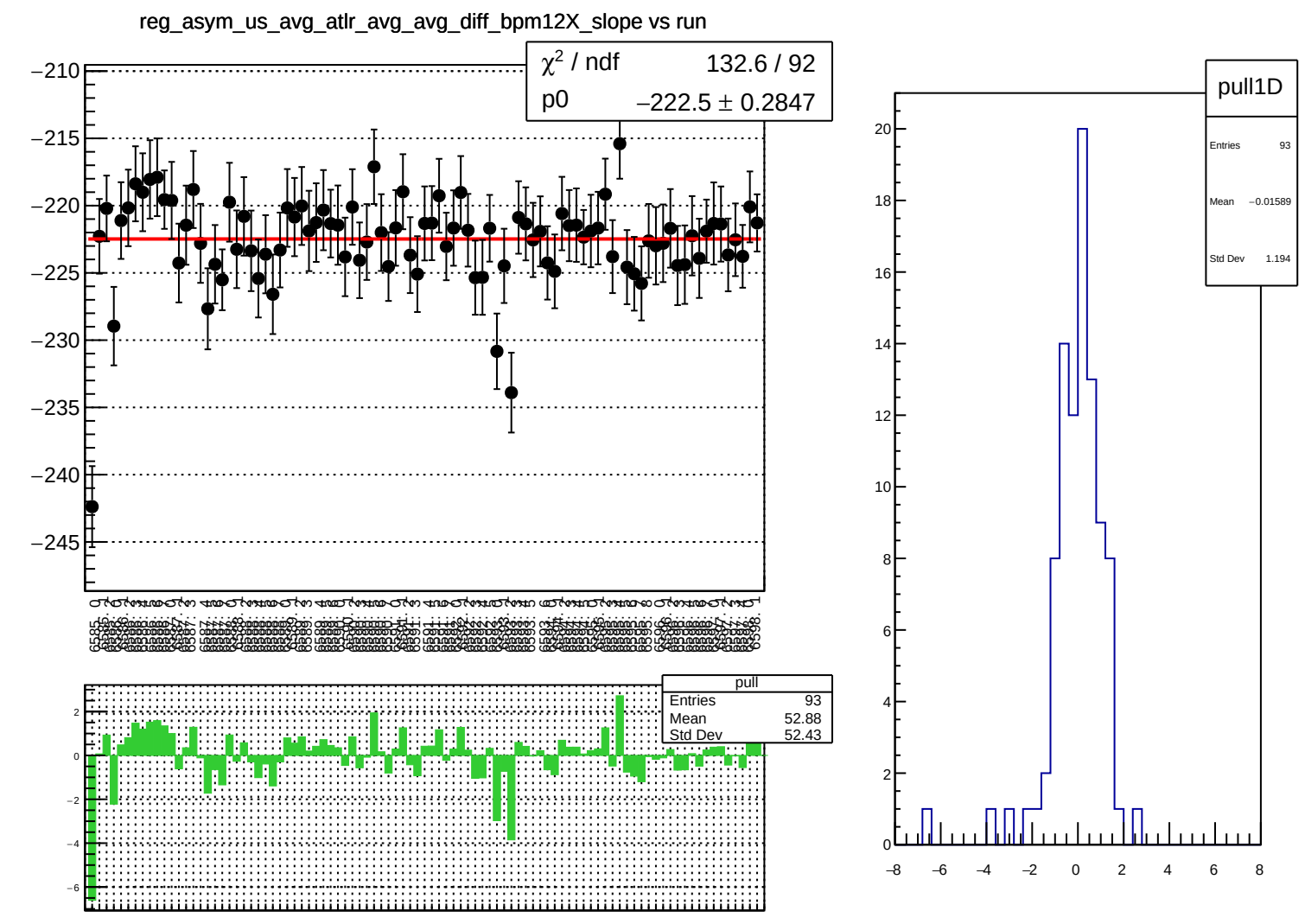

pull1D
Entries 93
Mean −0.0004696
Std Dev 0.5366

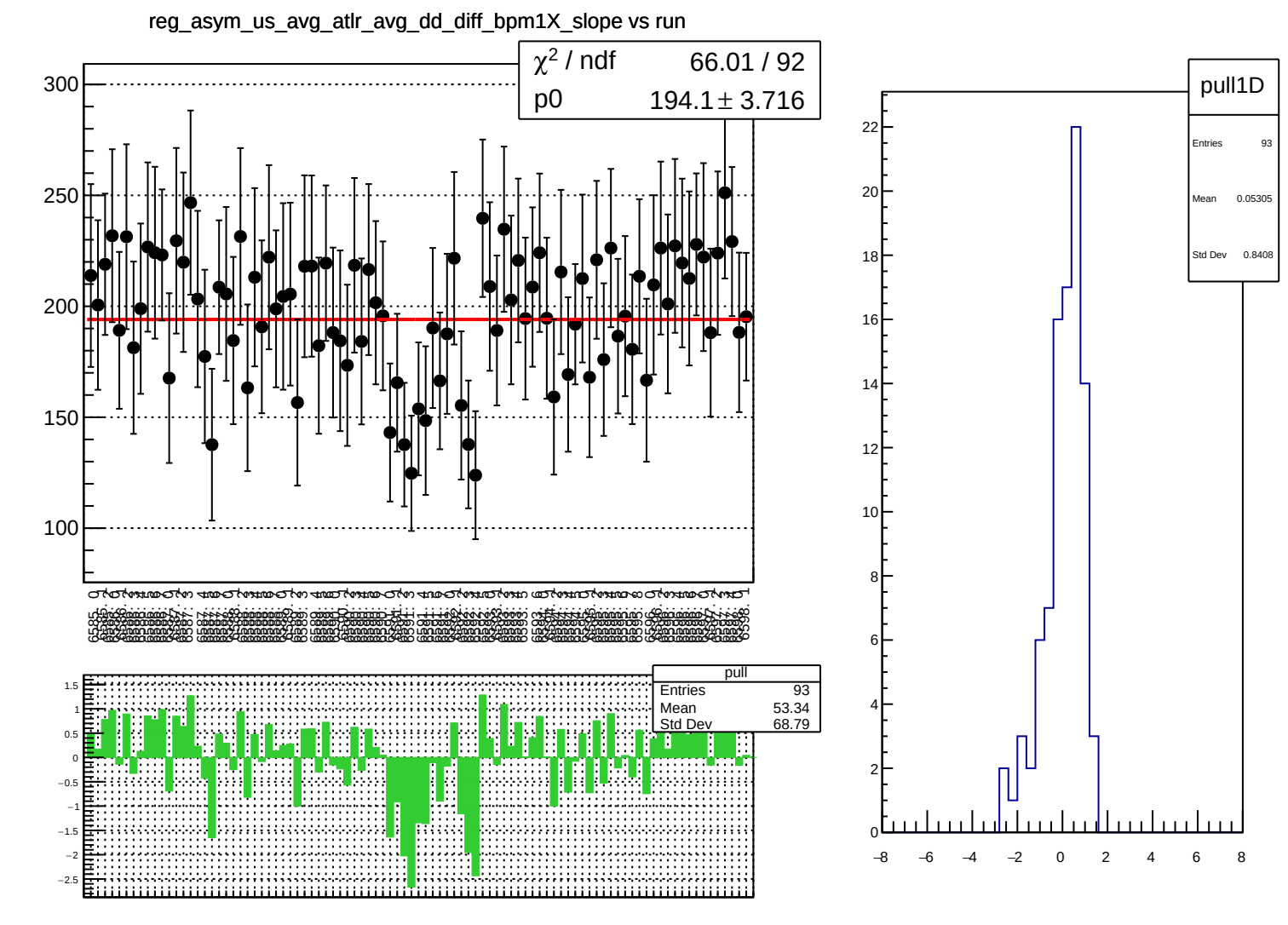

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 57.84 / 92
p0 −348.2 ± 6.76
pull
Entries 93
Mean 108.6
Std Dev 20.1
pull1D
Entries 93
Mean −0.0479
Std Dev 0.7872

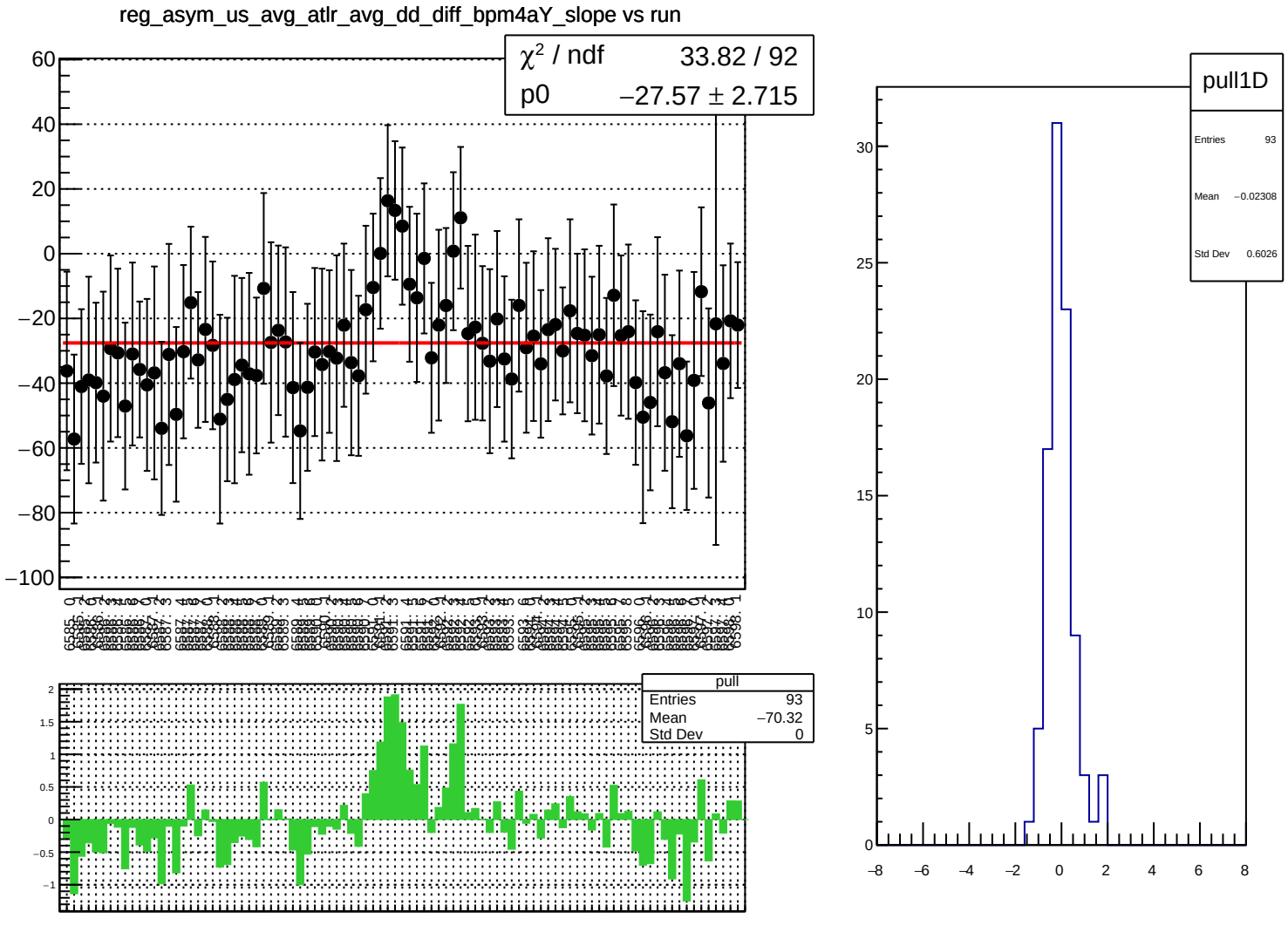

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.4 / 92
p0 35.05 ± 4.937
pull
Entries 93
Mean 147.8
Std Dev 0
pull1D
Entries 93
Mean 0.01587
Std Dev 0.4565

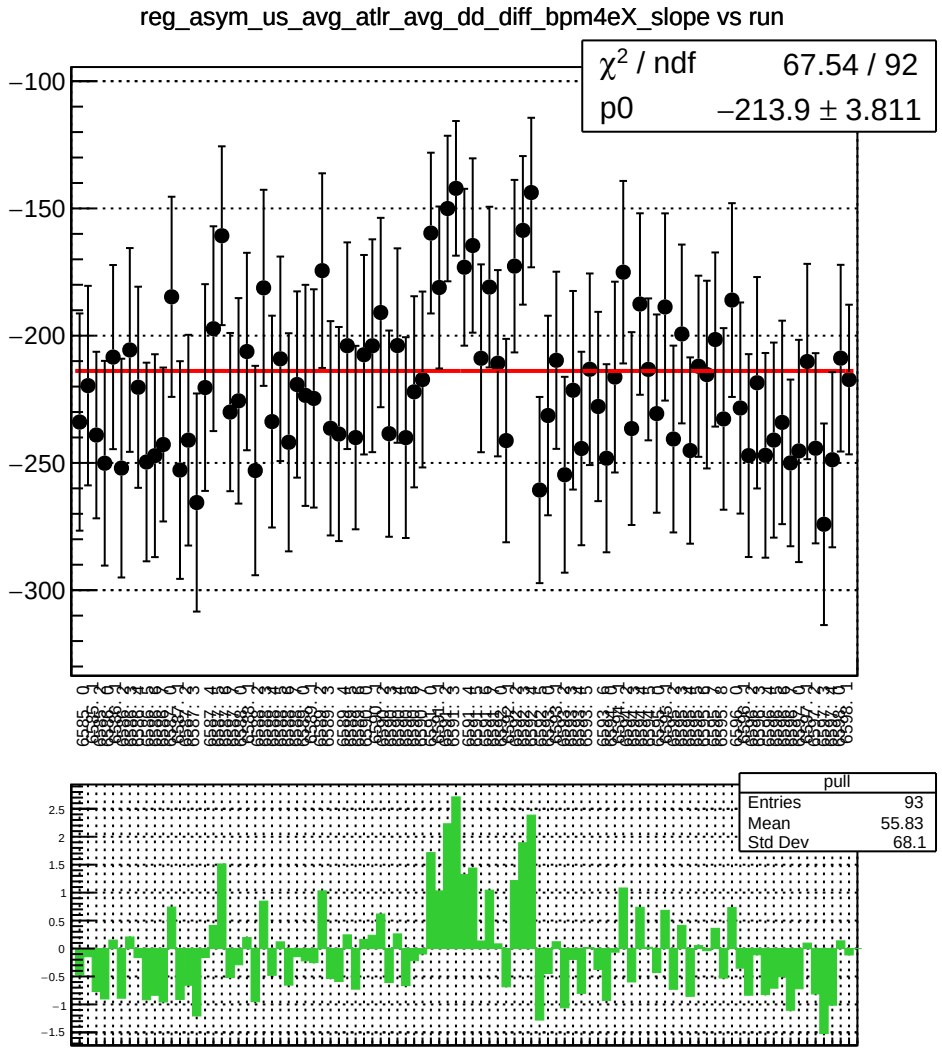

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.76 / 92
p0 383.5 ± 6.933
650
600
550
500
450
400
350
300
250
200
pull
Entries 93
Mean 107
Std Dev 23.81
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.0505
Std Dev 0.7933
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

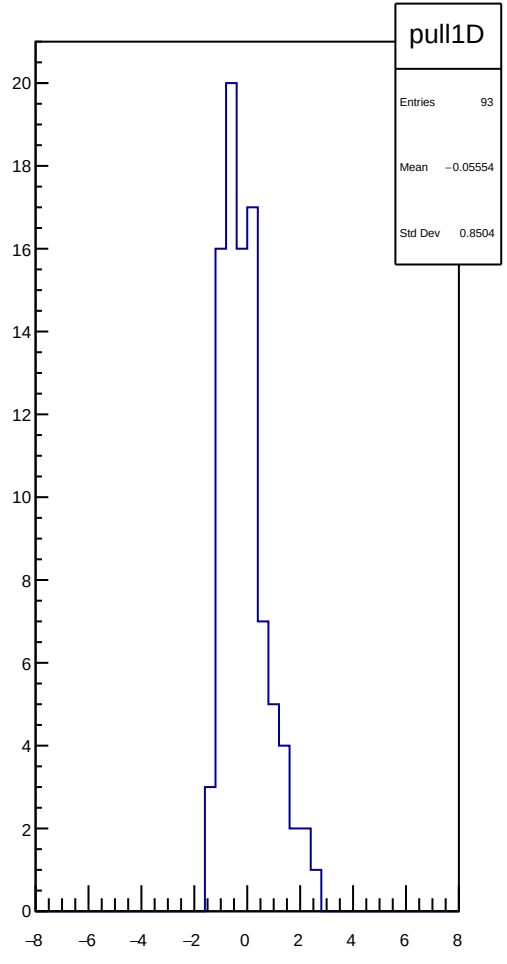

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.87 / 92
p0 80.63 ± 5.879
200
150
100
50
0
−50
pull
Entries 93
Mean 197.5
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 93
Mean −0.01322
Std Dev 0.4735
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

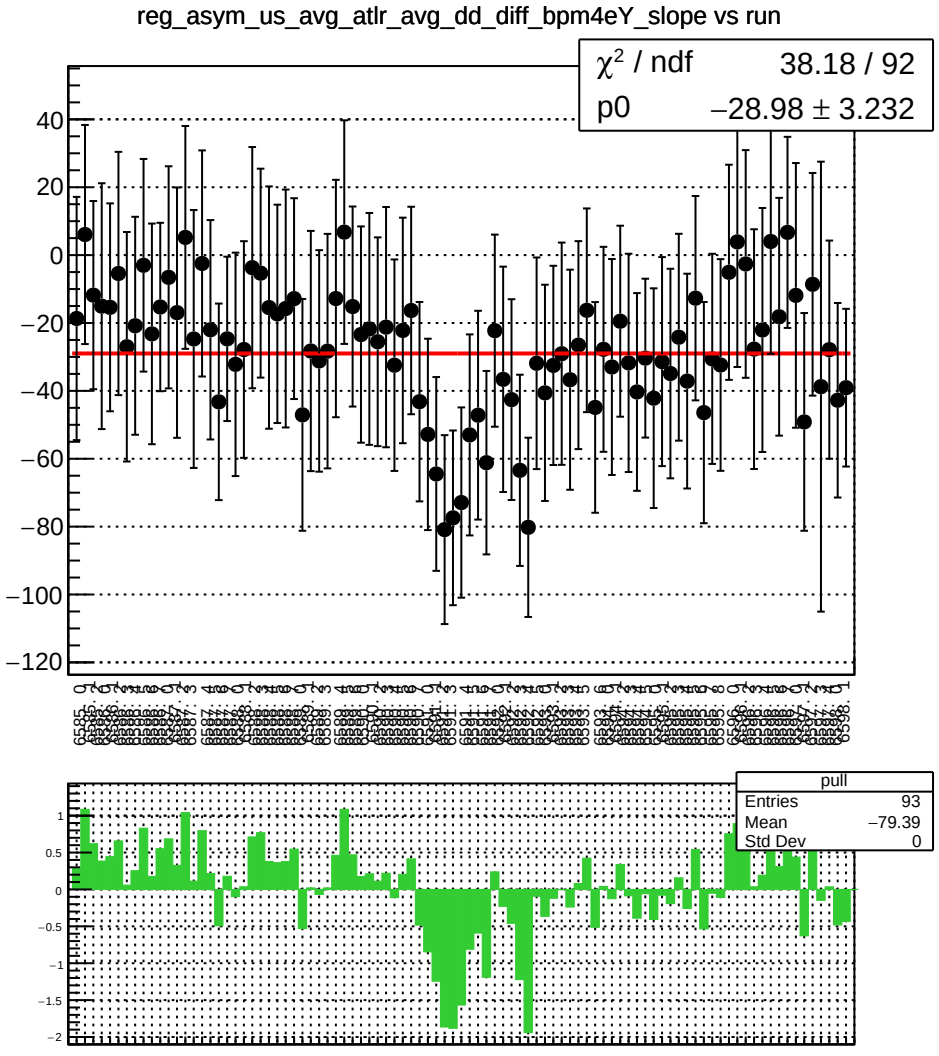

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 132.6 / 92
p0 −222.5 ± 0.2847
pull
Entries 93
Mean 52.88
Std Dev 52.43
pull1D
Entries 93
Mean −0.01589
Std Dev 1.194

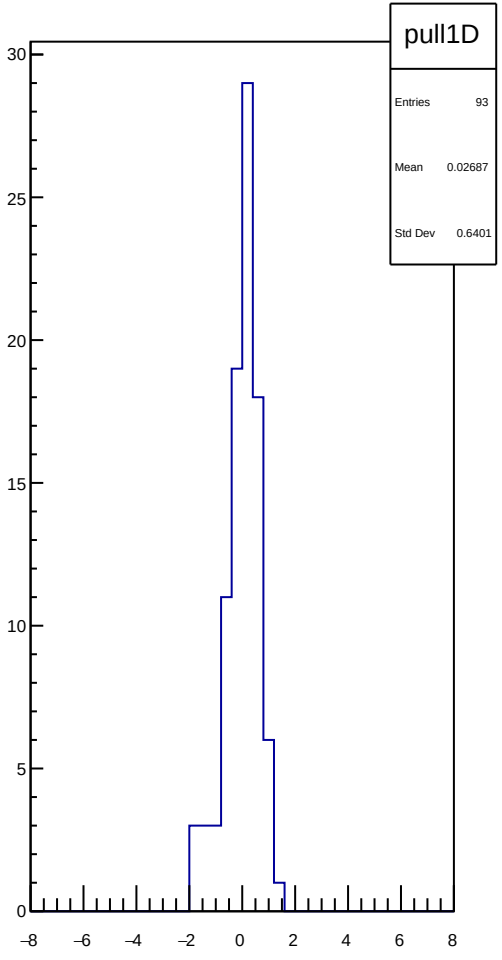

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 66.01 / 92
p0 194.1 ± 3.716
300
250
200
150
100
pull
Entries 93
Mean 53.34
Std Dev 68.79
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.05305
Std Dev 0.8408
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

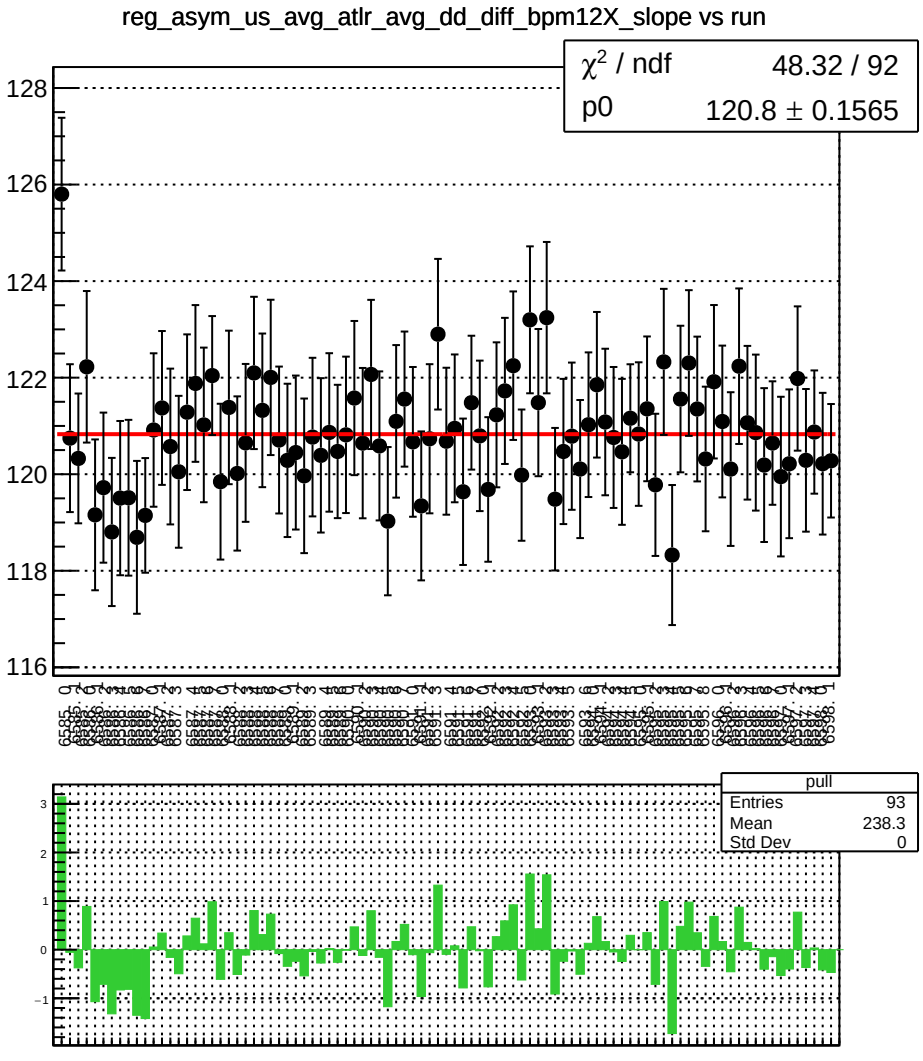

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.82 / 92
p0 −27.57 ± 2.715
pull
Entries 93
Mean −70.32
Std Dev 0
pull1D
Entries 93
Mean −0.02308
Std Dev 0.6026

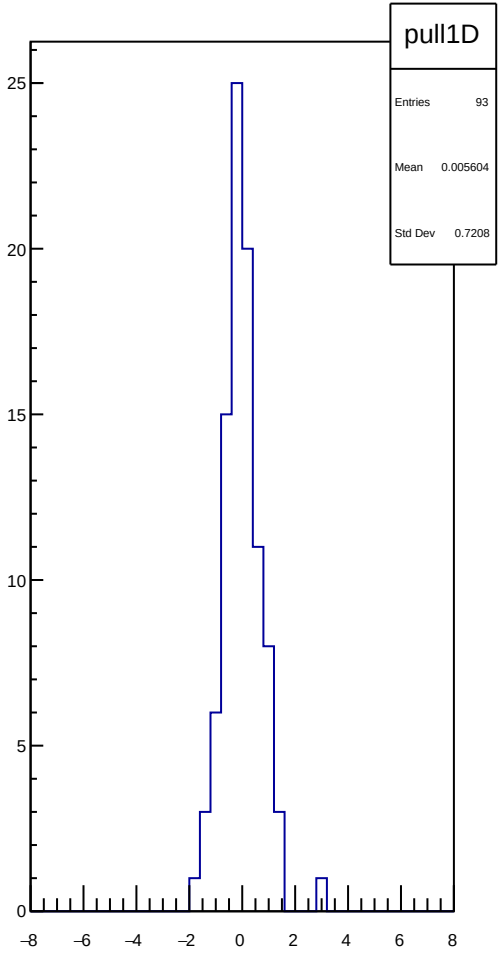

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.54 / 92
p0 −213.9 ± 3.811
−100
−150
−200
−250
−300
pull
Entries 93
Mean 55.83
Std Dev 68.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

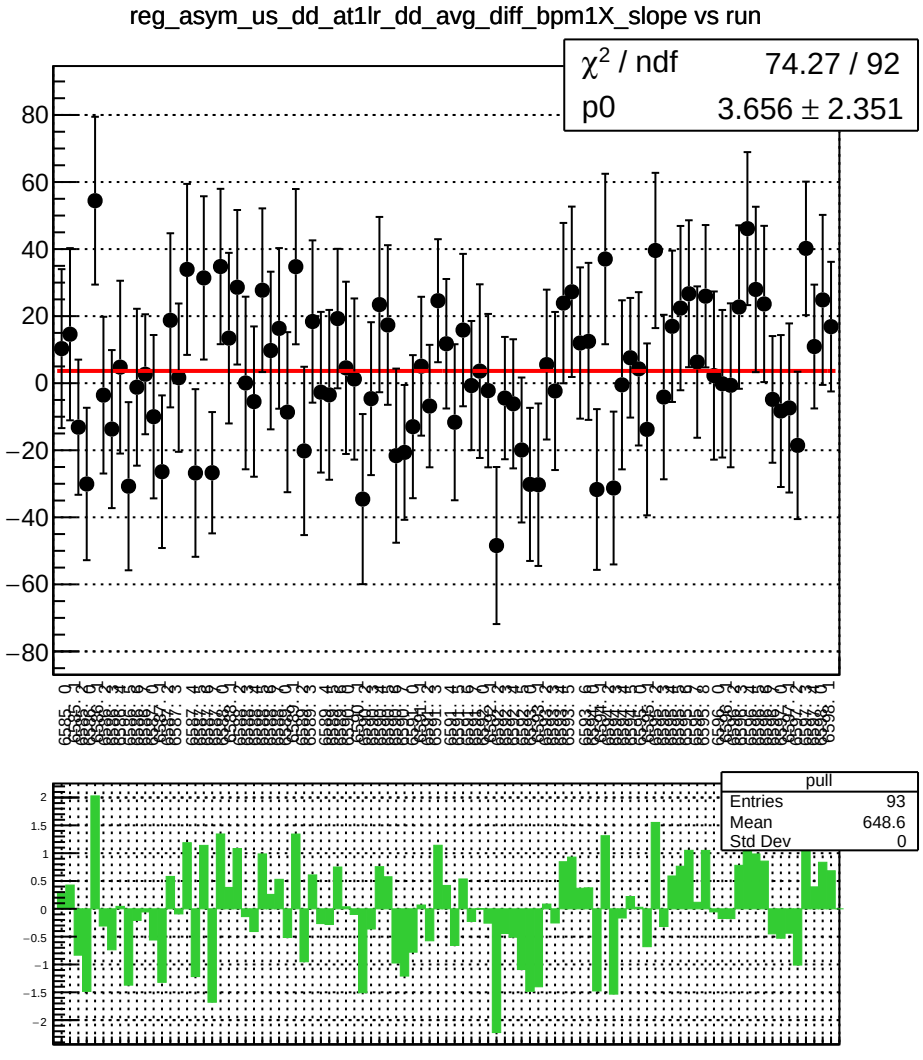

pull1D
Entries 93
Mean −0.05554
Std Dev 0.8504
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

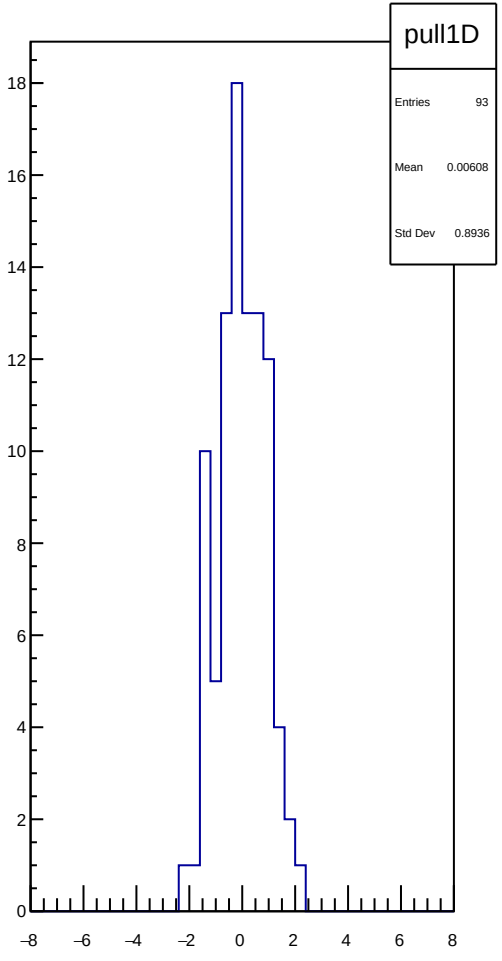

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.18 / 92
p0 −28.98 ± 3.232
pull
Entries 93
Mean −79.39
Std Dev 0

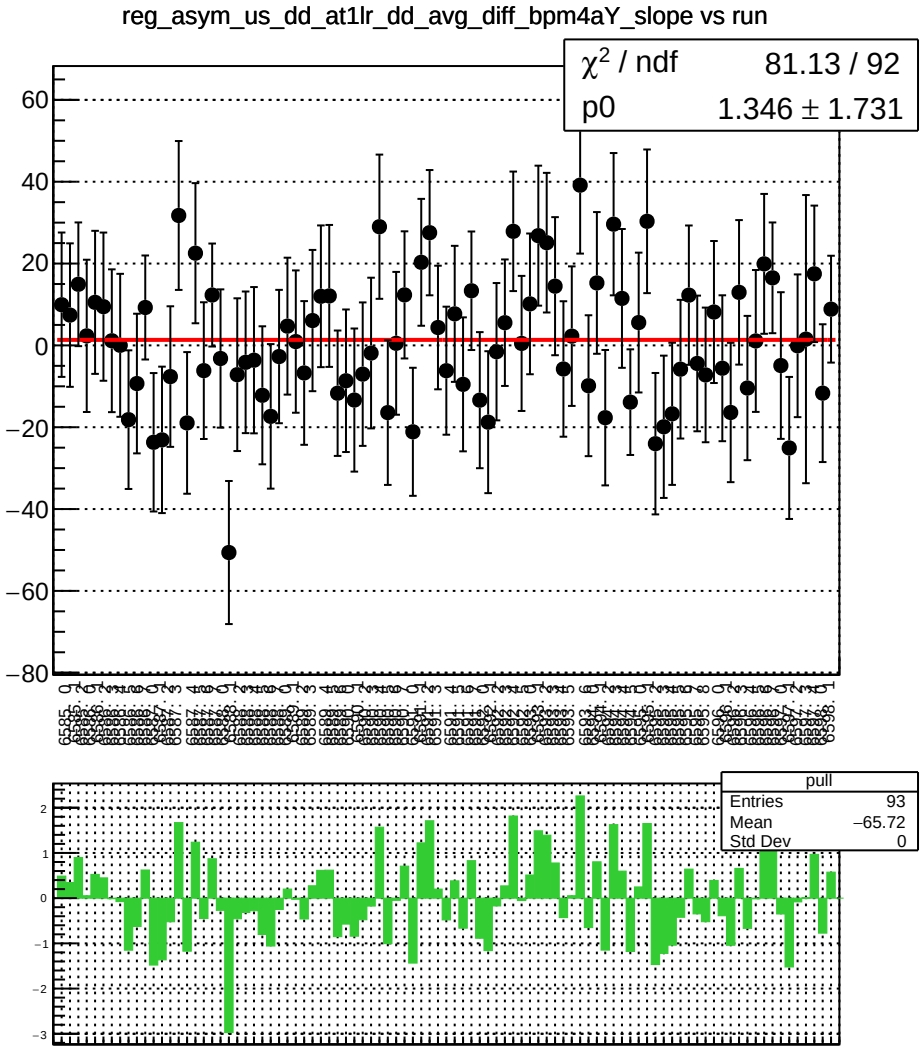

pull1D
Entries 93
Mean 0.02687
Std Dev 0.6401

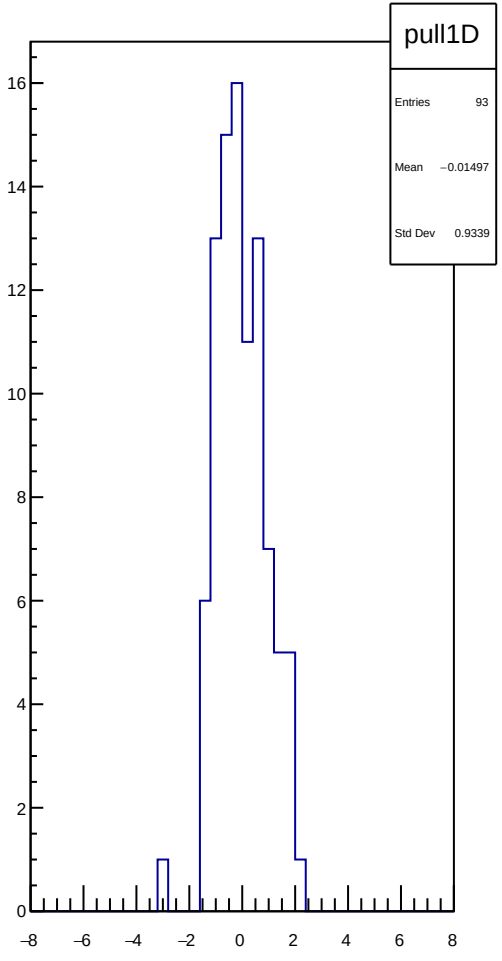

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 48.32 / 92
p0 120.8 ± 0.1565
128
126
124
122
120
118
116
pull
Entries 93
Mean 238.3
Std Dev 0
3
2
1
0
−1

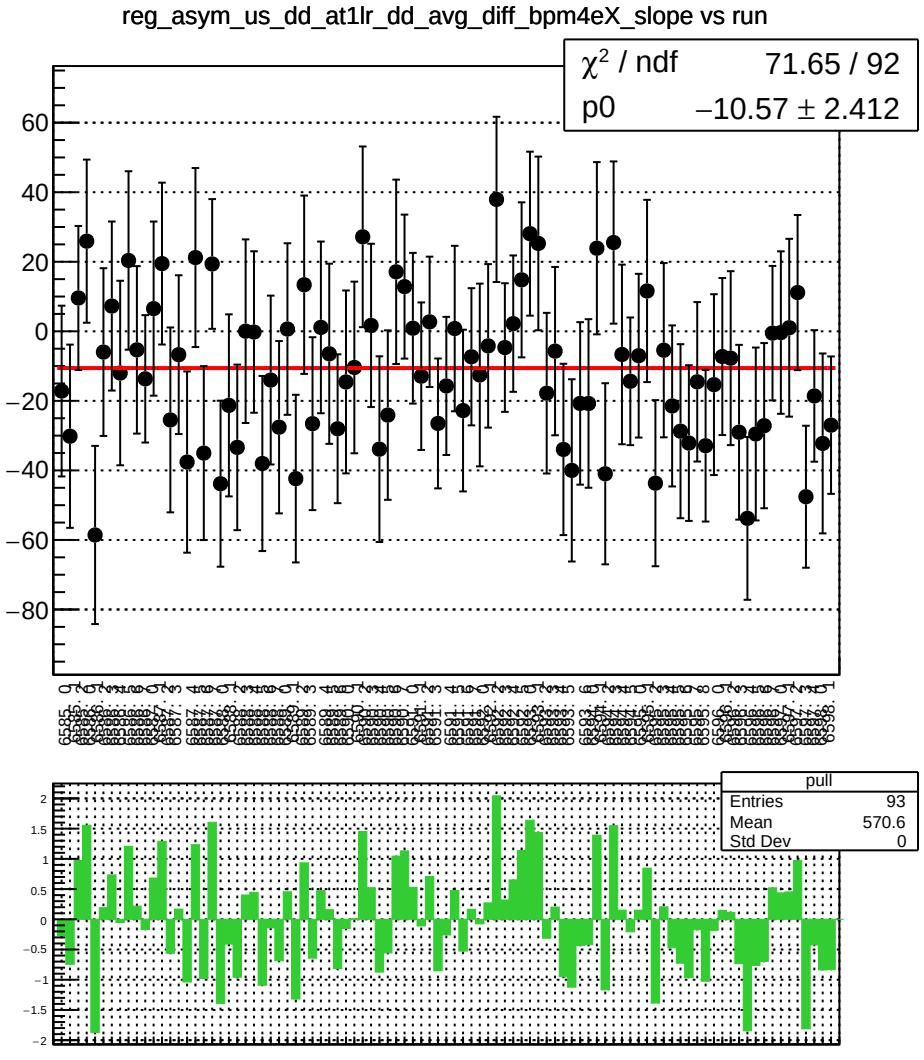

pull1D
Entries 93
Mean 0.005604
Std Dev 0.7208
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

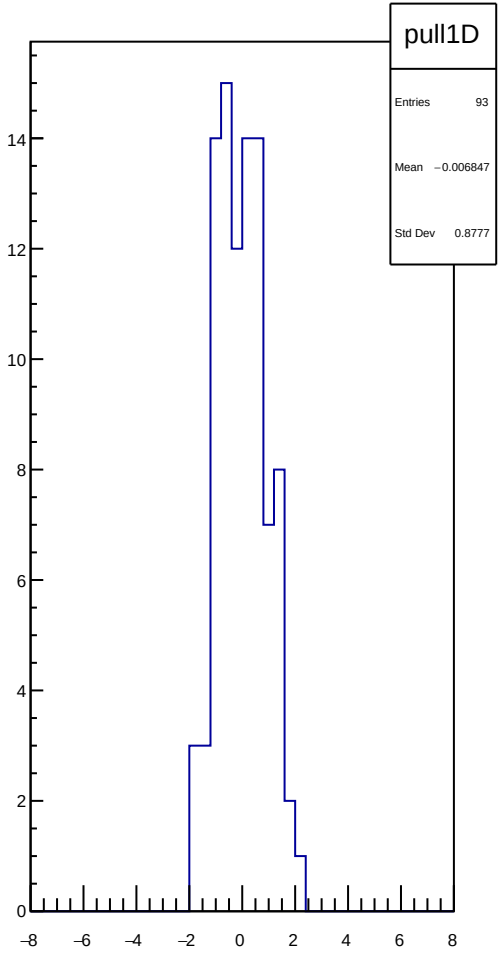

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 74.27 / 92
p0 3.656 ± 2.351
pull
Entries 93
Mean 648.6
Std Dev 0

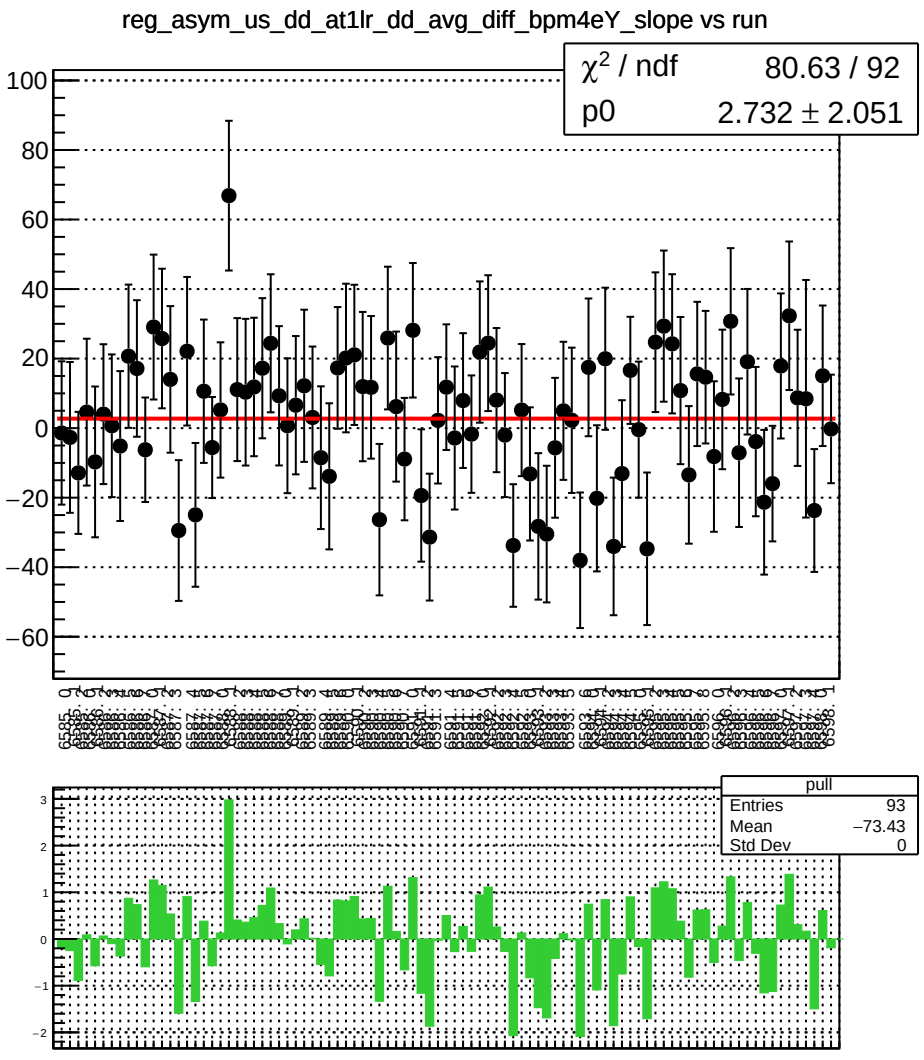

pull1D
Entries 93
Mean 0.00608
Std Dev 0.8936

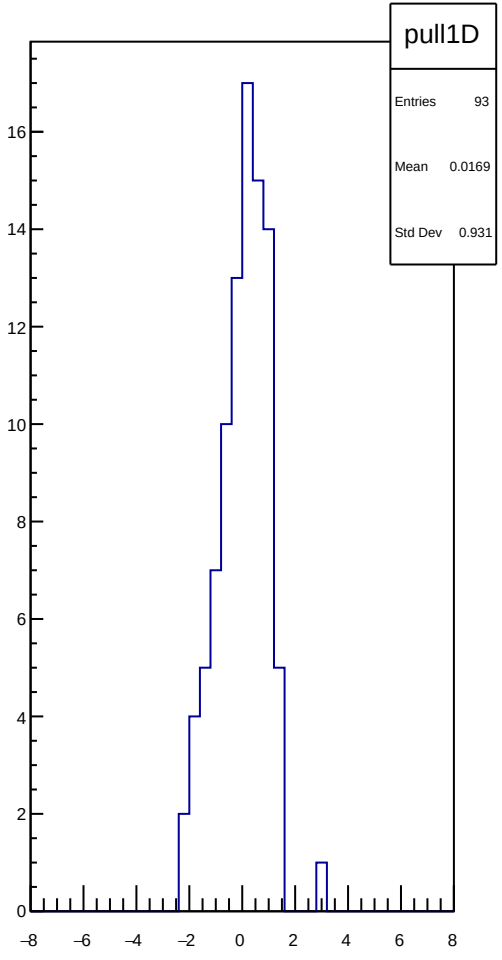

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.13 / 92
p0 1.346 ± 1.731
pull
Entries 93
Mean −65.72
Std Dev 0

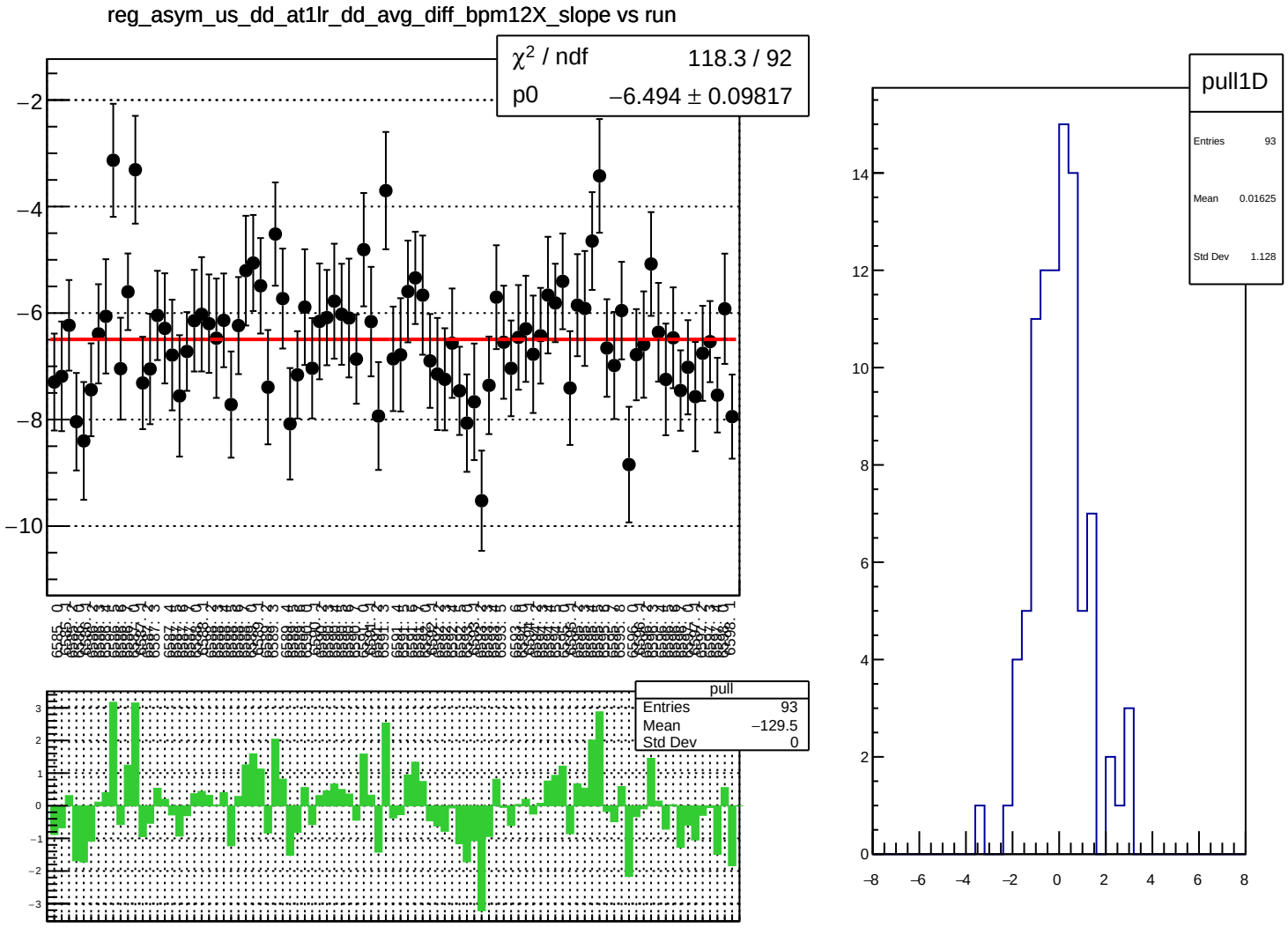

pull1D
Entries 93
Mean −0.01497
Std Dev 0.9339

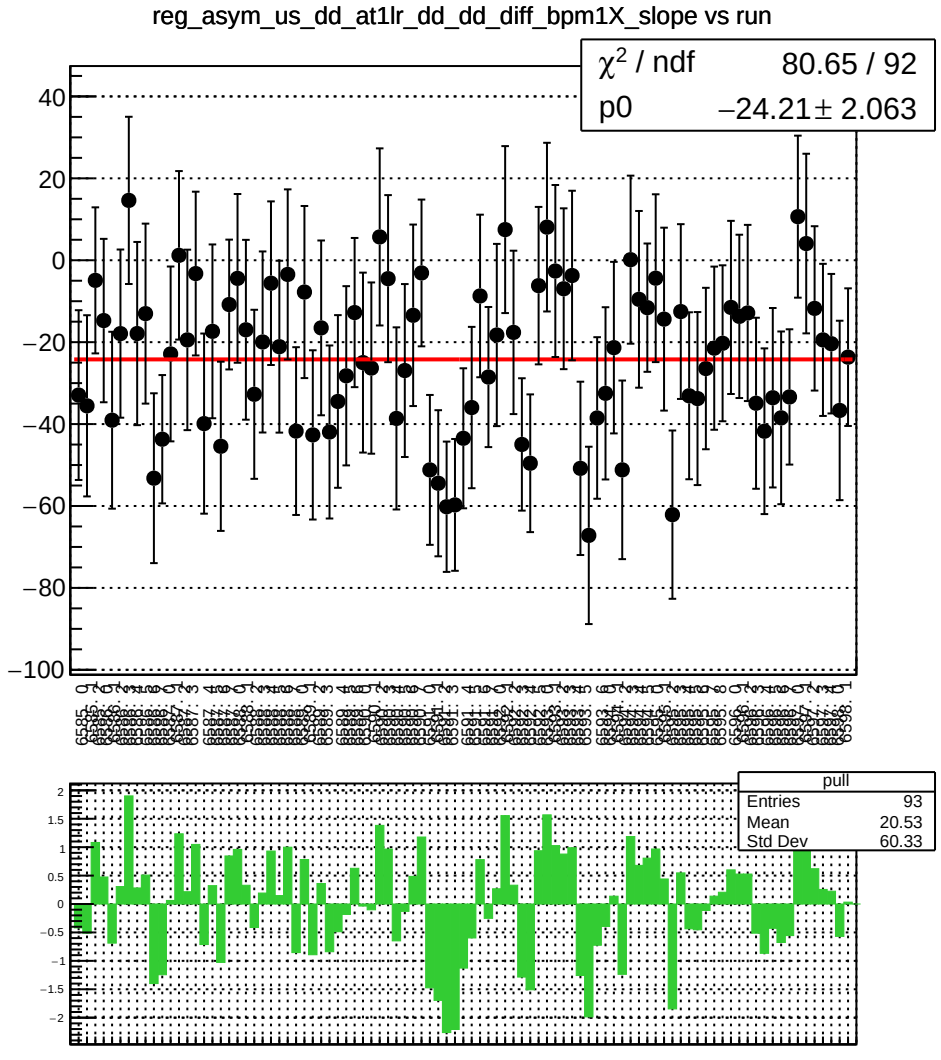

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.65 / 92
p0 −10.57 ± 2.412
pull
Entries 93
Mean 570.6
Std Dev 0

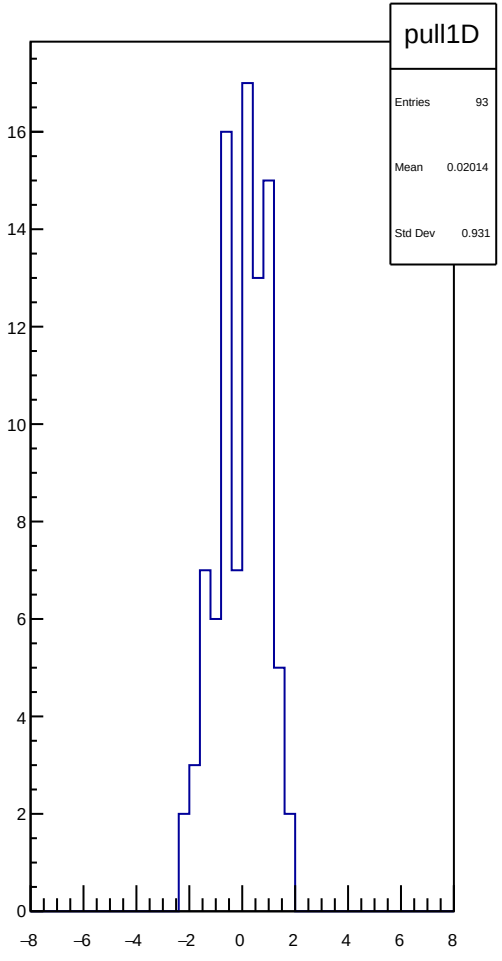

pull1D
Entries 93
Mean −0.006847
Std Dev 0.8777

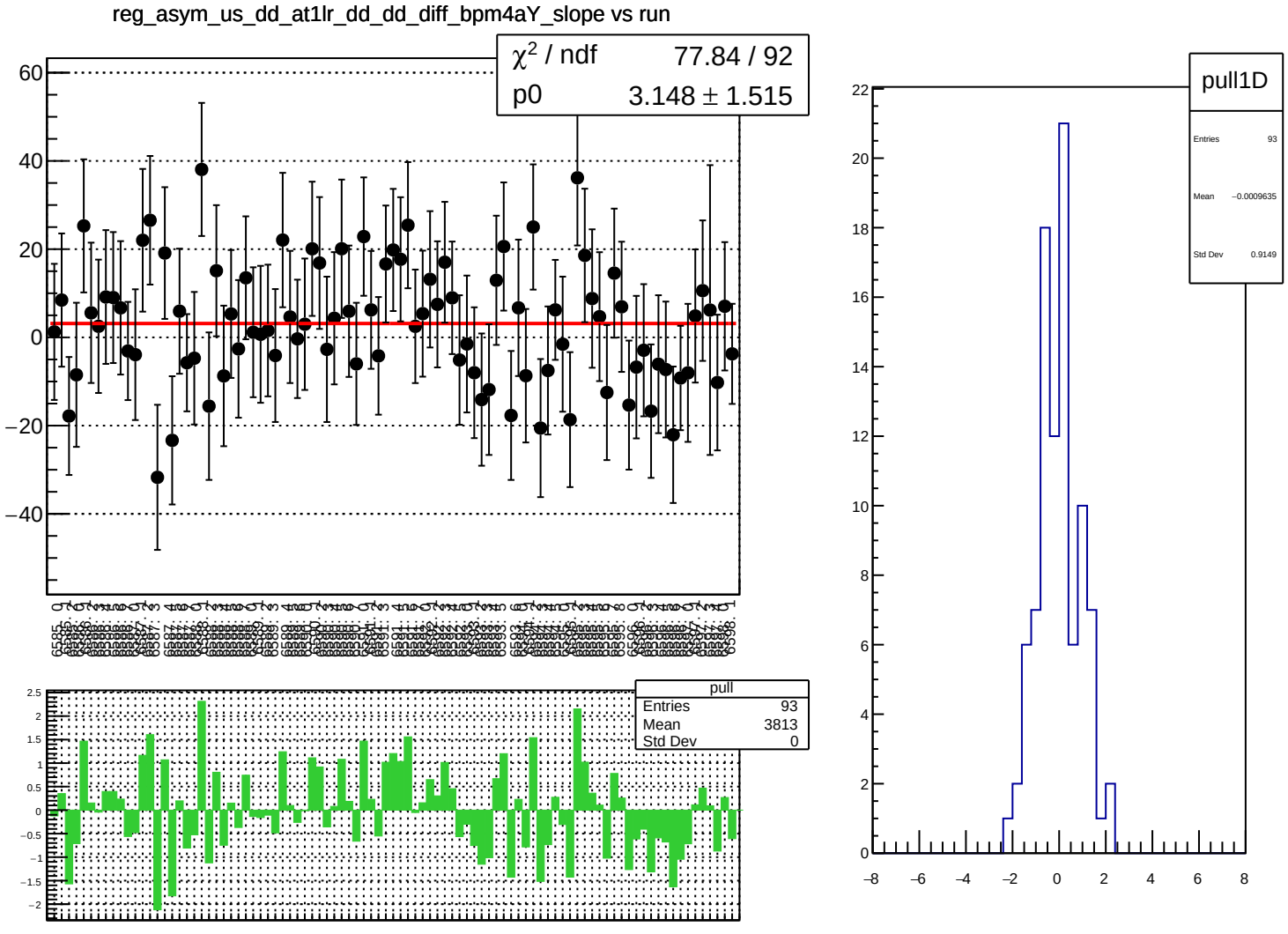

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 80.63 / 92
p0 2.732 ± 2.051
pull
Entries 93
Mean −73.43
Std Dev 0

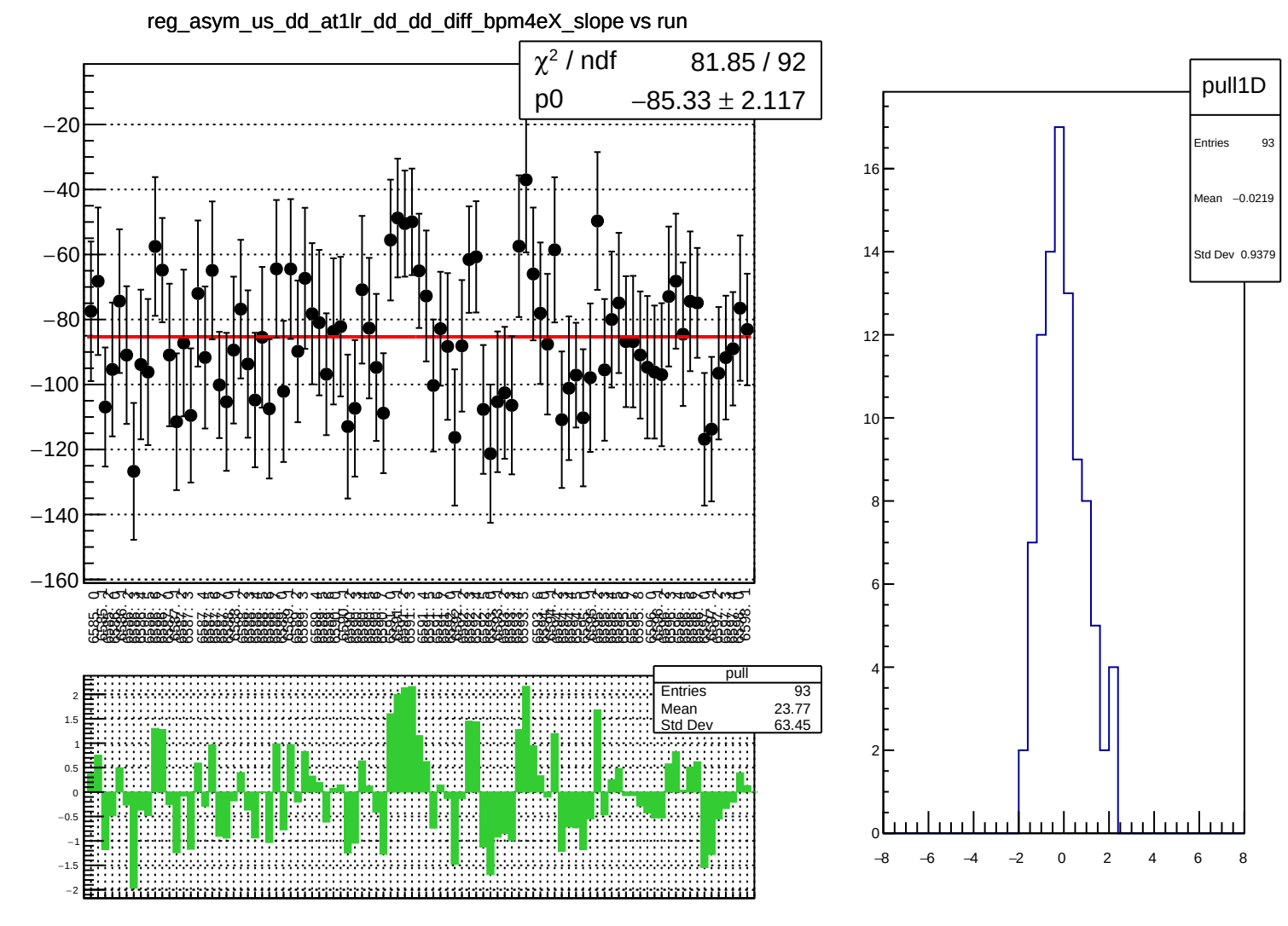

pull1D
Entries 93
Mean 0.0169
Std Dev 0.931

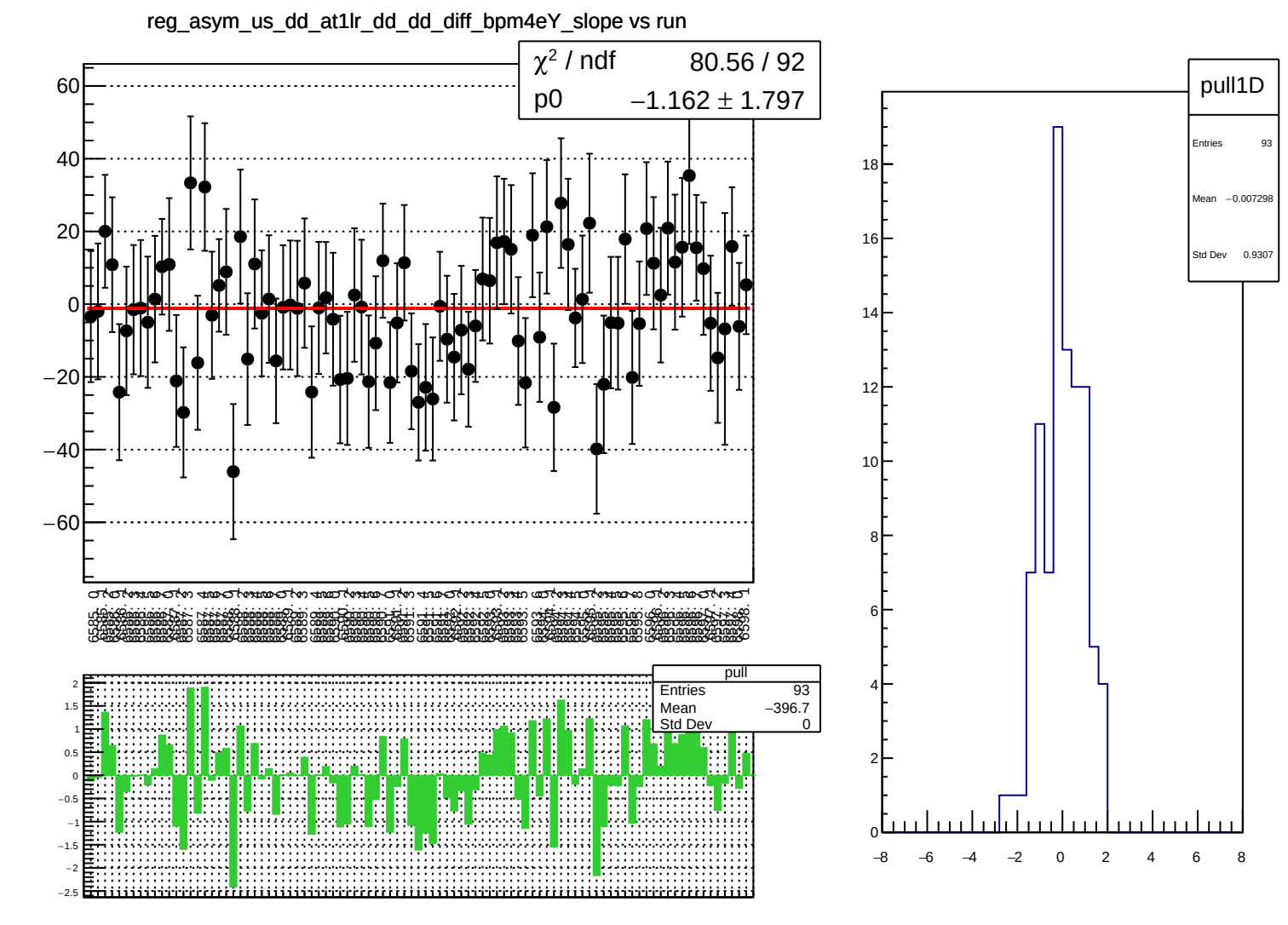

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 118.3 / 92
p0 −6.494 ± 0.09817
−2
−4
−6
−8
−10
pull
Entries 93
Mean −129.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01625
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

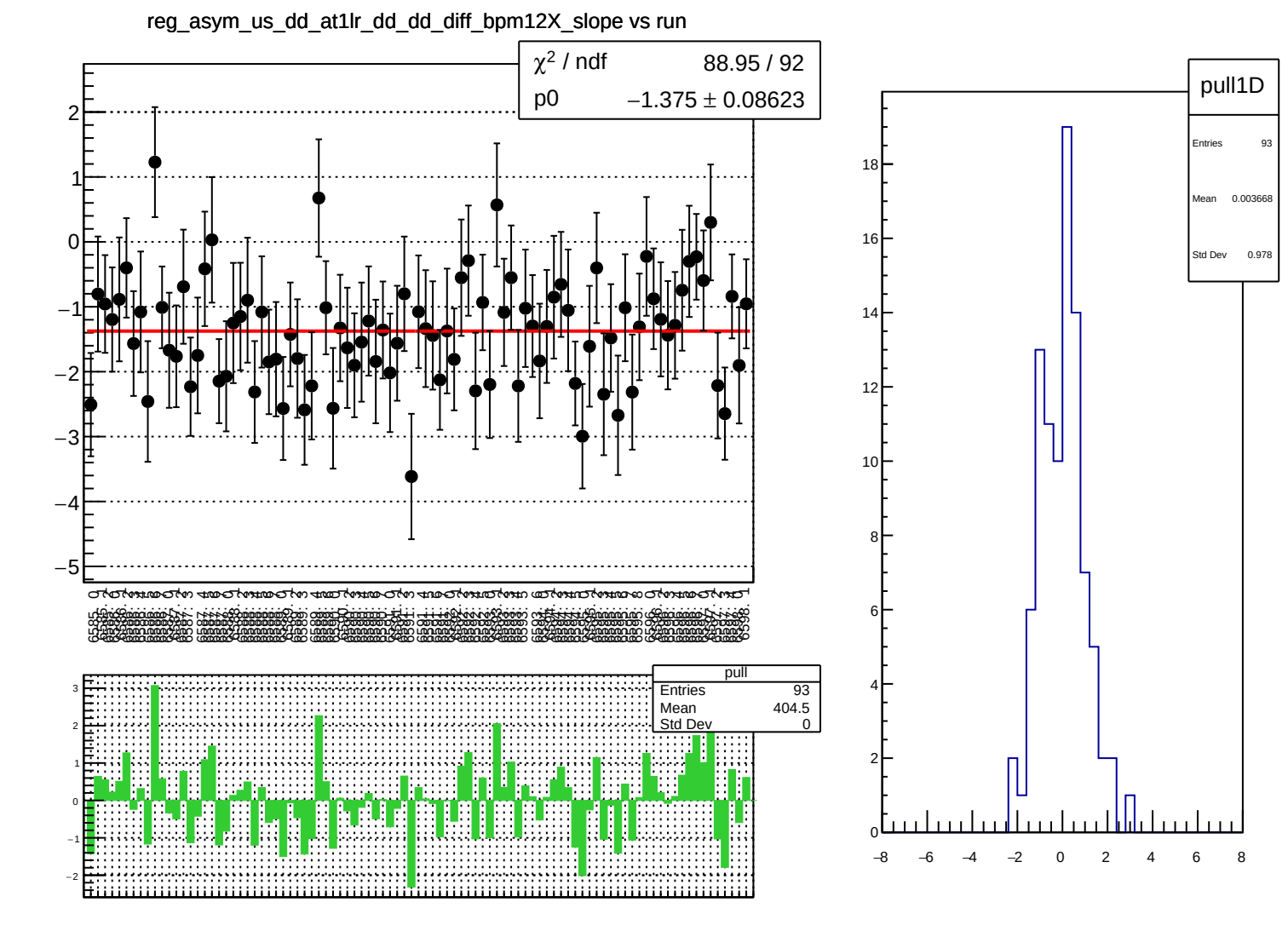

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 80.65 / 92
p0 −24.21 ± 2.063
pull
Entries 93
Mean 20.53
Std Dev 60.33

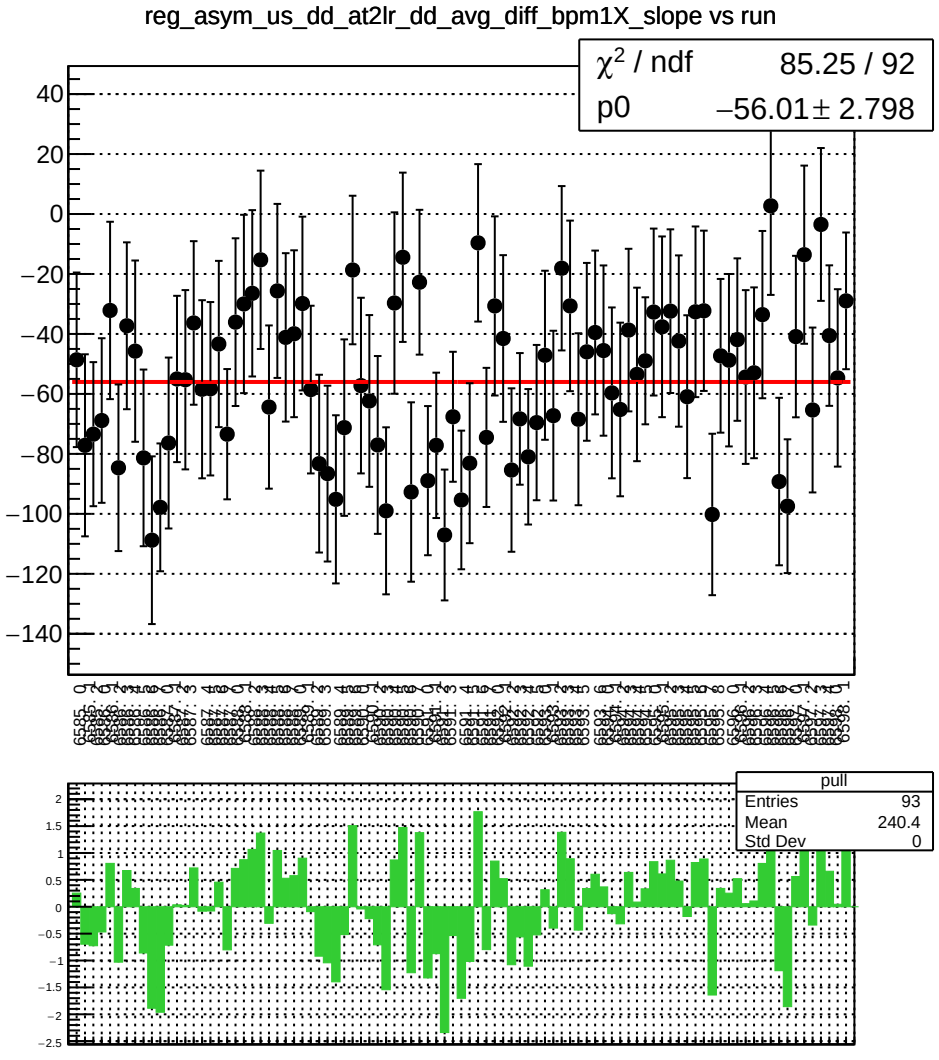

pull1D
Entries 93
Mean 0.02014
Std Dev 0.931

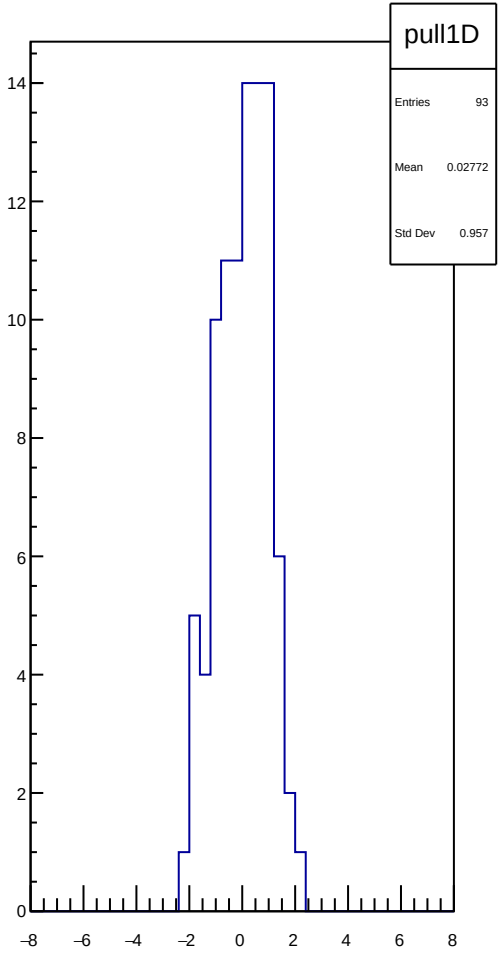

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.84 / 92
p0 3.148 ± 1.515
pull
Entries 93
Mean 3813
Std Dev 0
pull1D
Entries 93
Mean −0.0009635
Std Dev 0.9149

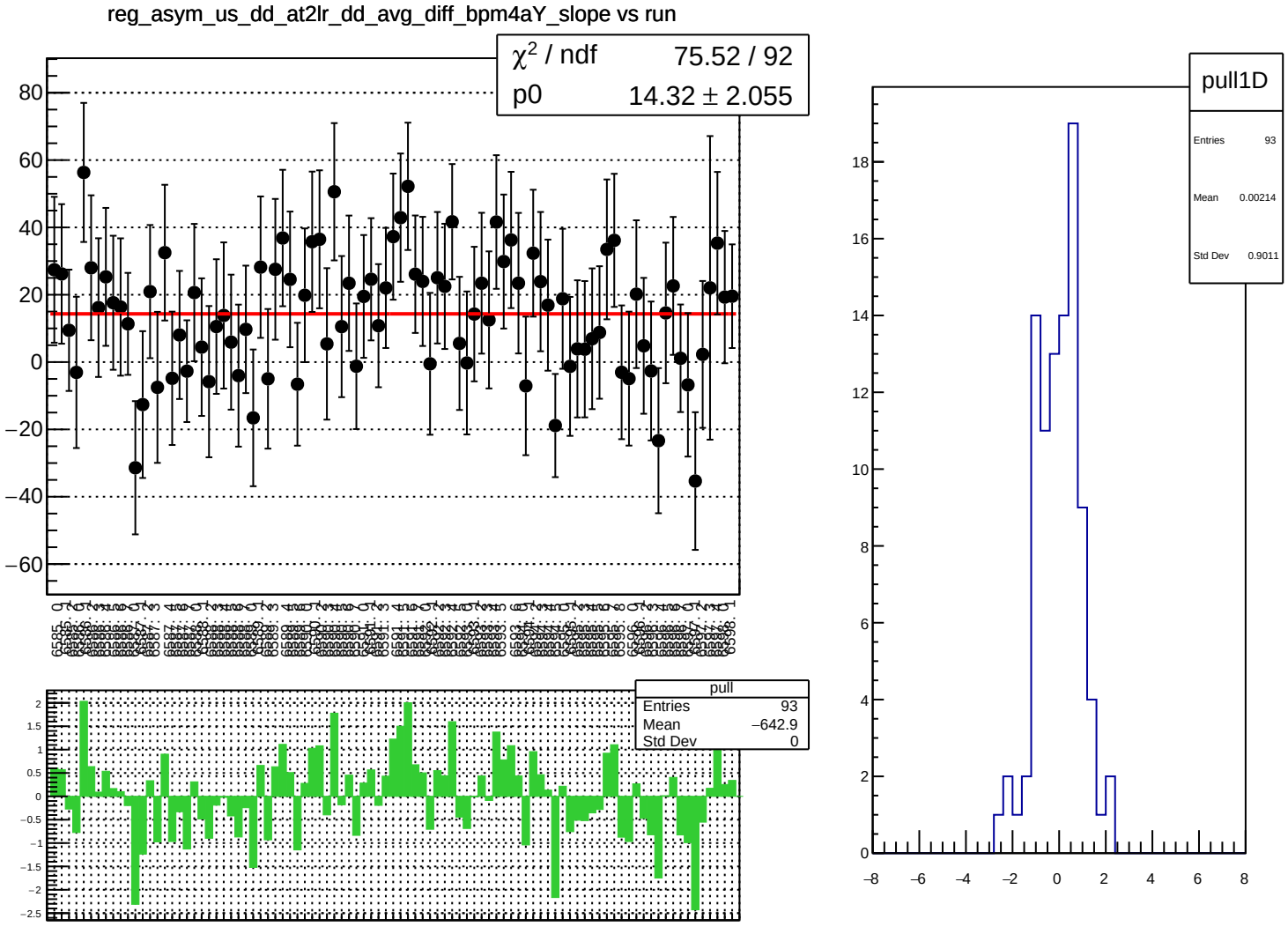

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.85 / 92
p0 −85.33 ± 2.117
pull
Entries 93
Mean 23.77
Std Dev 63.45
pull1D
Entries 93
Mean −0.0219
Std Dev 0.9379

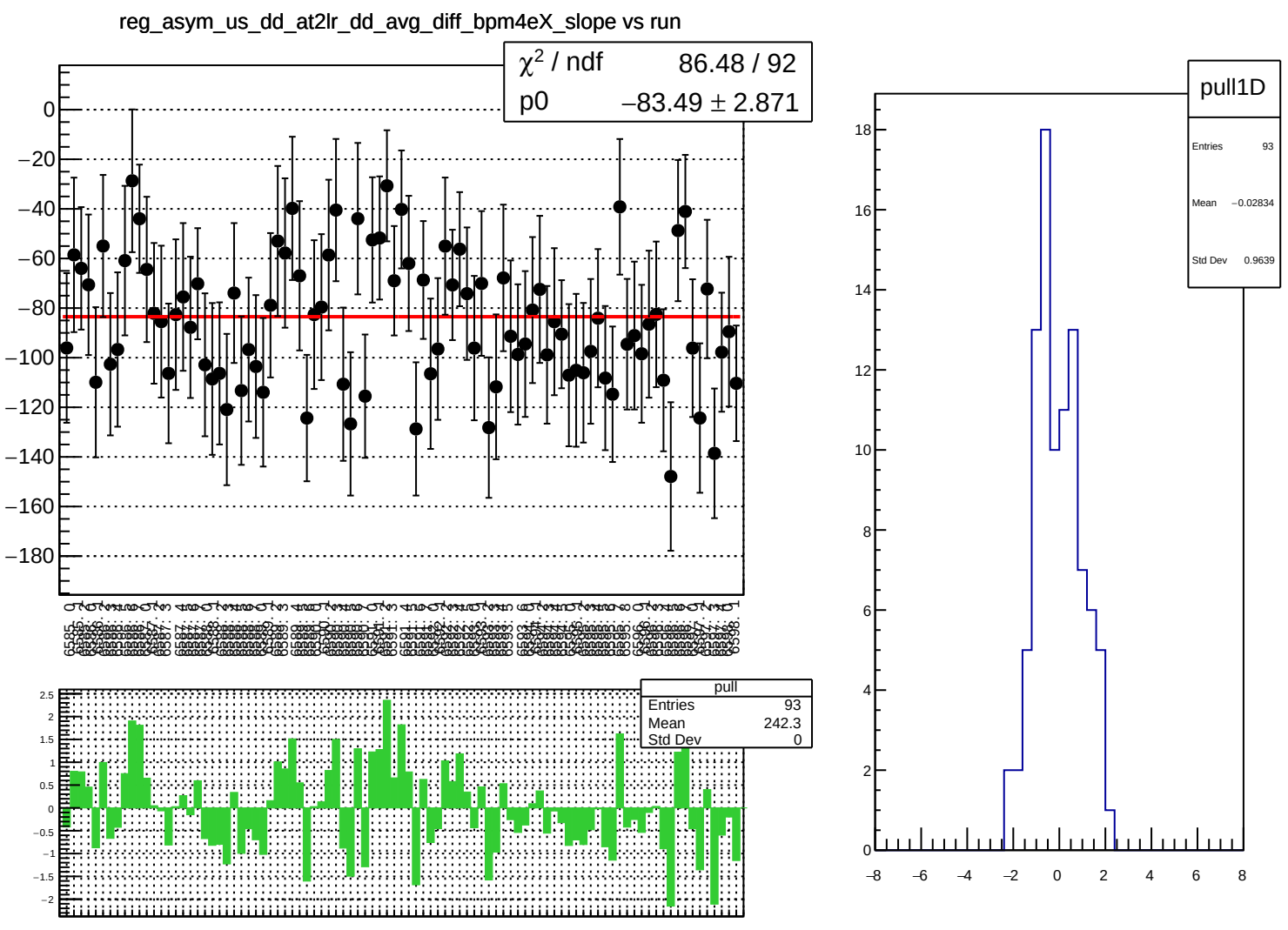

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.56 / 92
p0 −1.162 ± 1.797
pull
Entries 93
Mean −396.7
Std Dev 0
pull1D
Entries 93
Mean −0.007298
Std Dev 0.9307

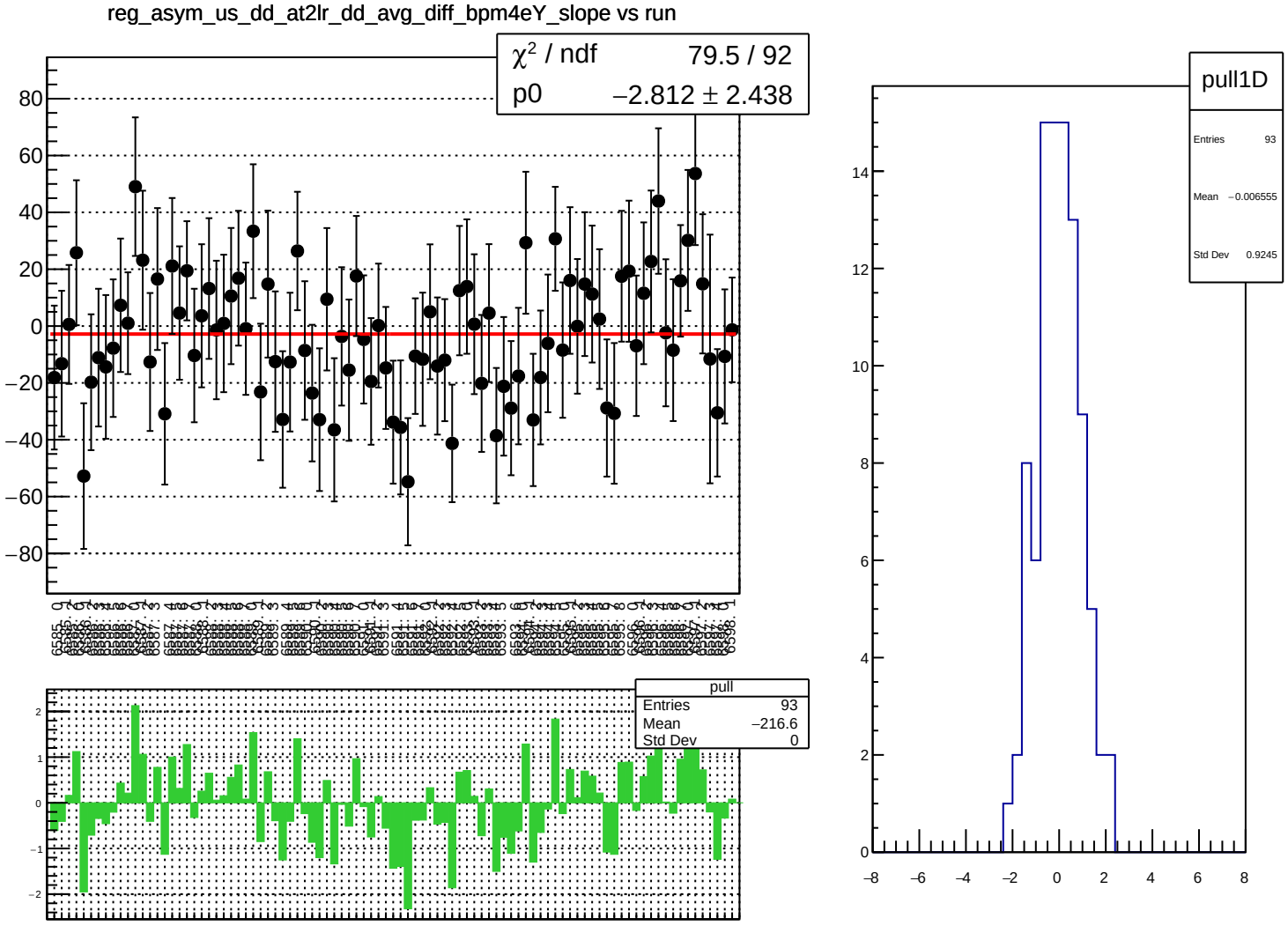

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 88.95 / 92
p0 −1.375 ± 0.08623
pull
Entries 93
Mean 404.5
Std Dev 0
pull1D
Entries 93
Mean 0.003668
Std Dev 0.978

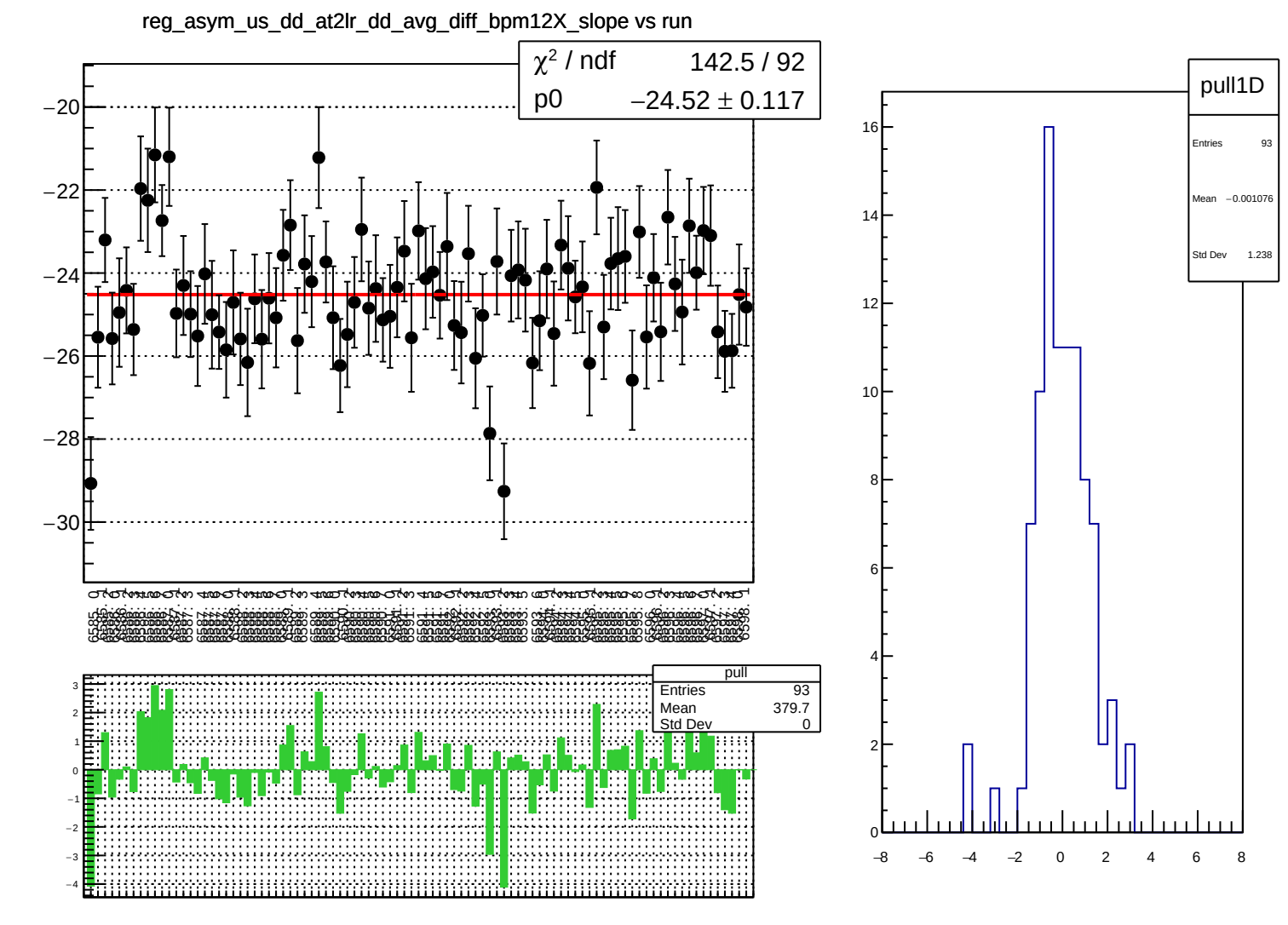

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 85.25 / 92
p0 −56.01 ± 2.798
pull
Entries 93
Mean 240.4
Std Dev 0

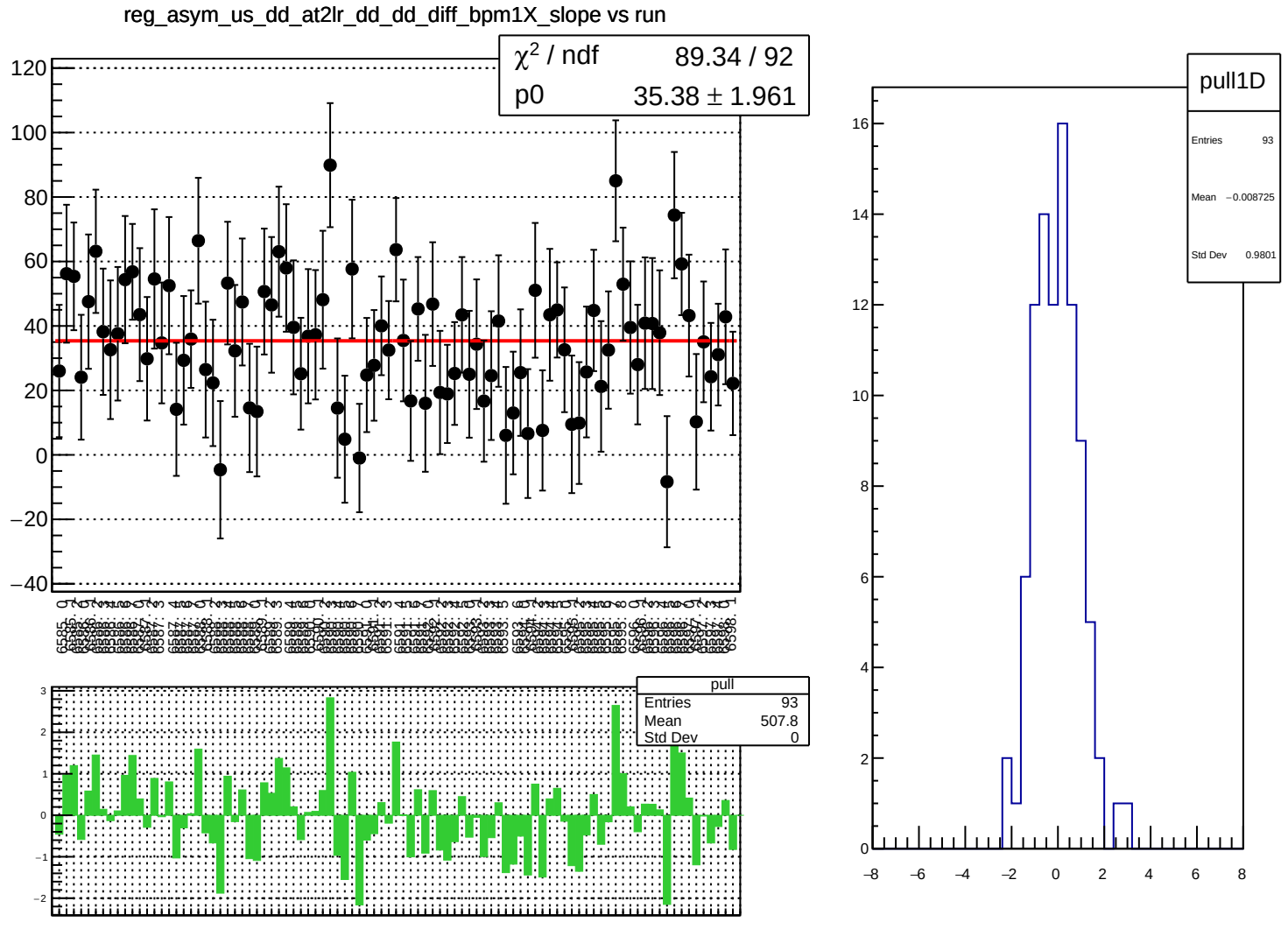

pull1D
Entries 93
Mean 0.02772
Std Dev 0.957

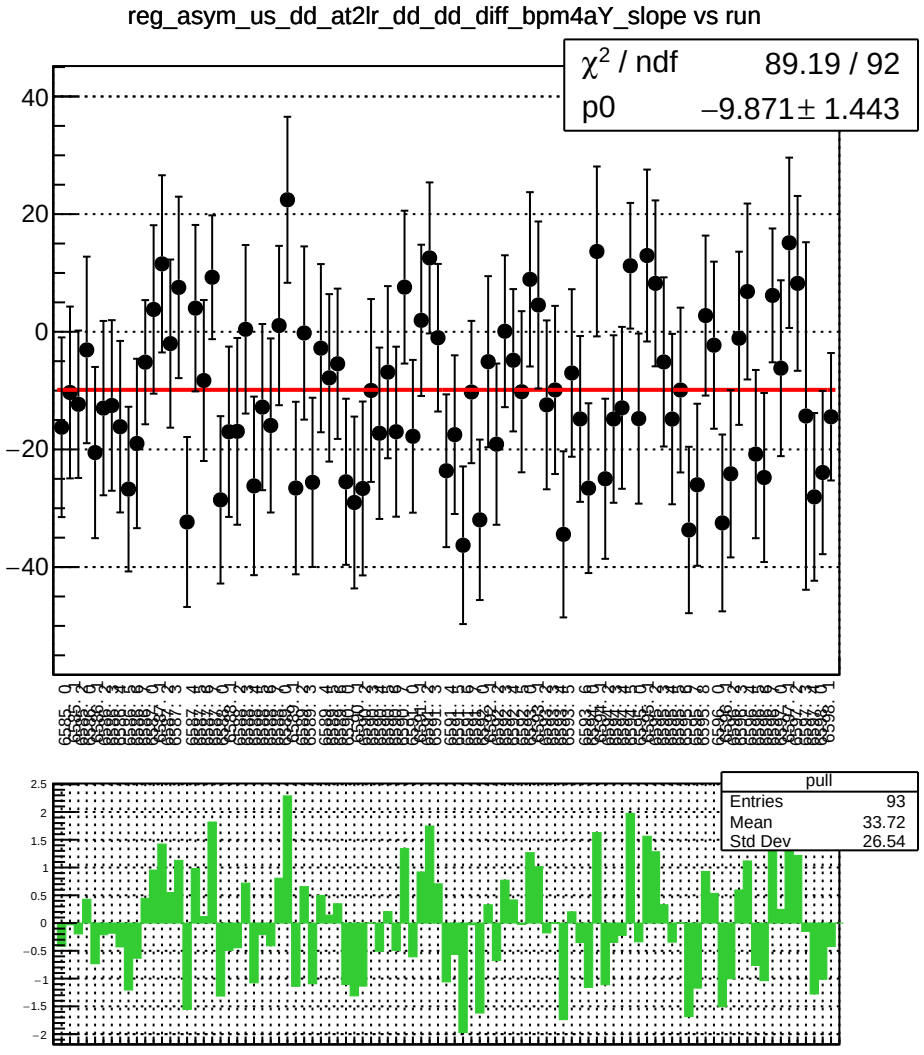

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.52 / 92
p0 14.32 ± 2.055
pull
Entries 93
Mean −642.9
Std Dev 0
pull1D
Entries 93
Mean 0.00214
Std Dev 0.9011

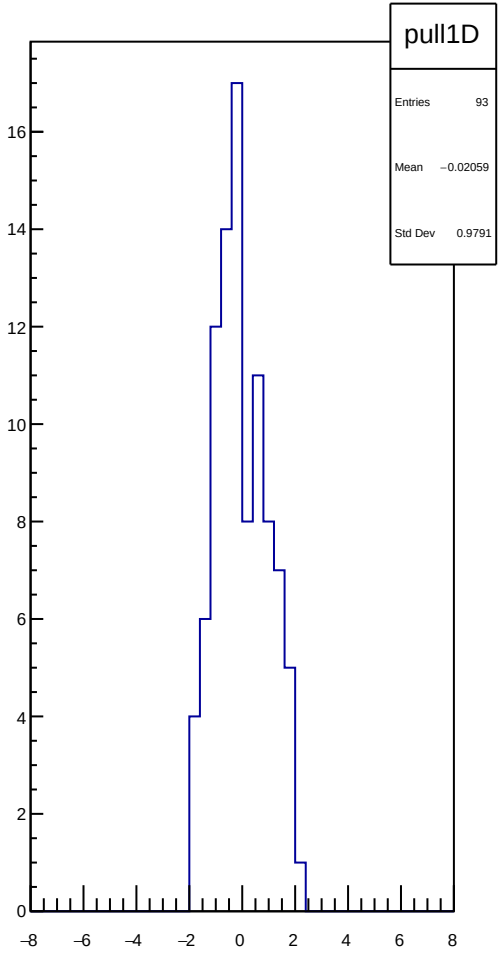

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 86.48 / 92
p0 −83.49 ± 2.871
pull
Entries 93
Mean 242.3
Std Dev 0
pull1D
Entries 93
Mean −0.02834
Std Dev 0.9639

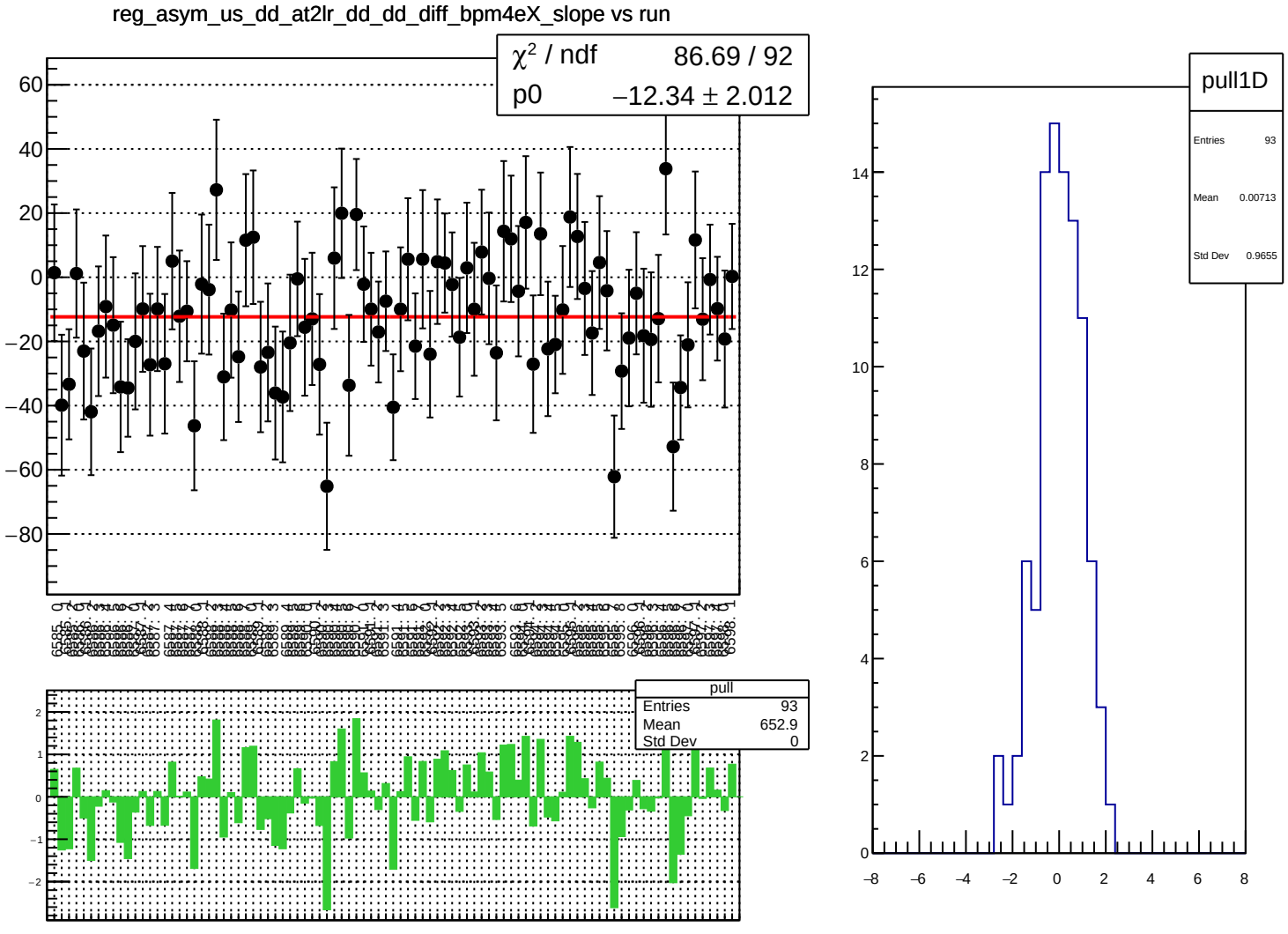

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.5 / 92
p0 −2.812 ± 2.438
pull
Entries 93
Mean −216.6
Std Dev 0
pull1D
Entries 93
Mean −0.006555
Std Dev 0.9245

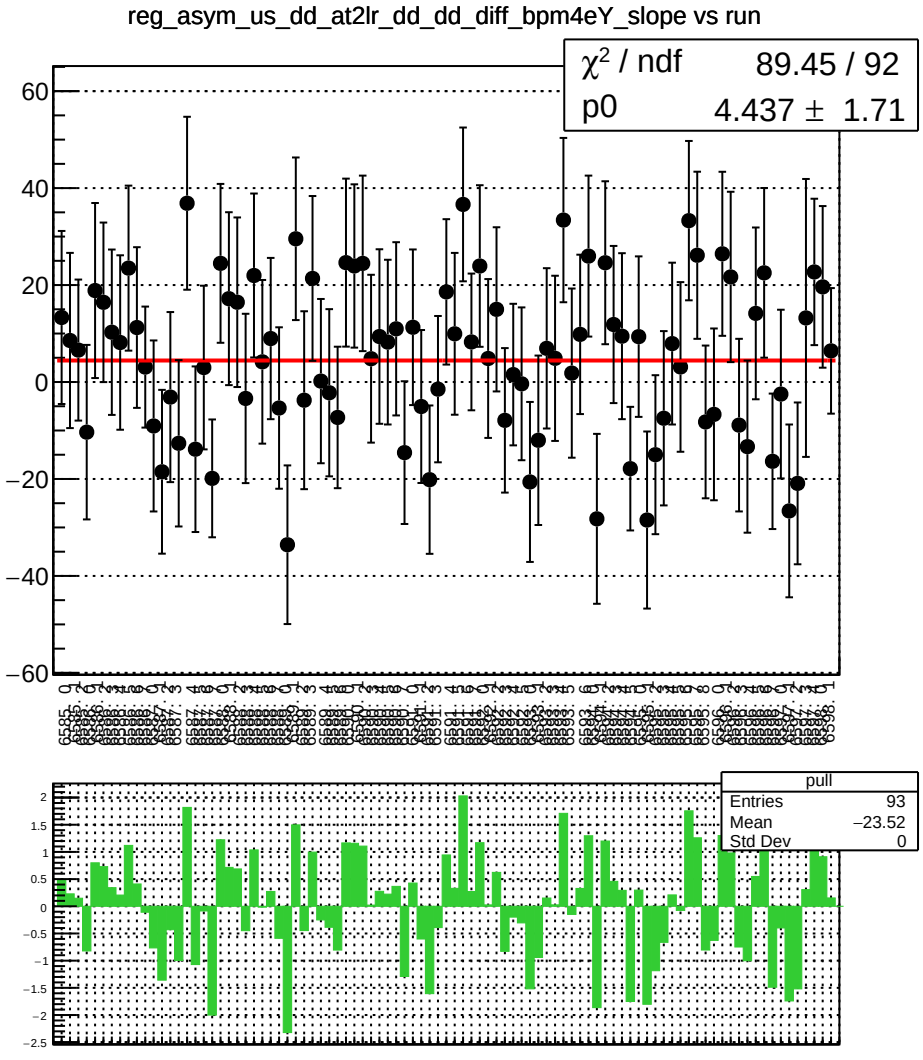

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 142.5 / 92
p0 −24.52 ± 0.117
−20
−22
−24
−26
−28
−30
pull
Entries 93
Mean 379.7
Std Dev 0
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 93
Mean −0.001076
Std Dev 1.238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

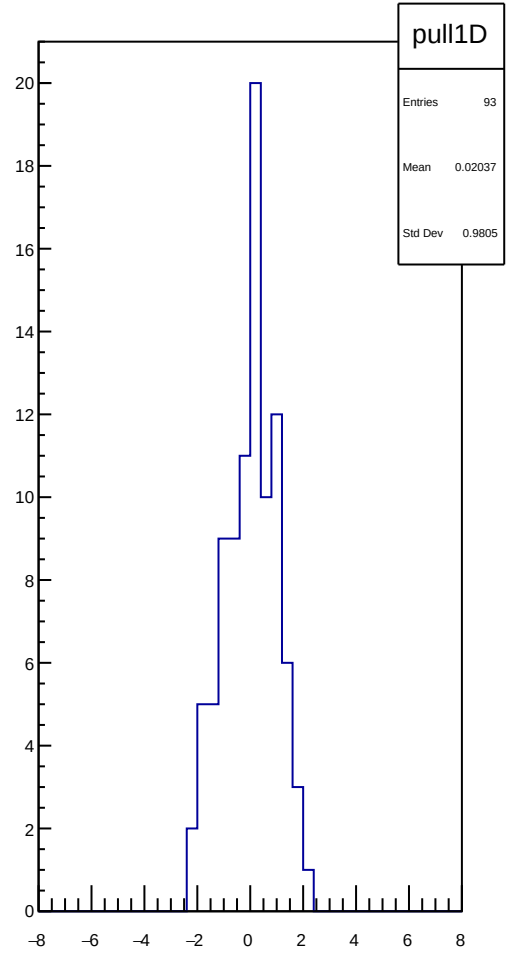

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 89.34 / 92
p0 35.38 ± 1.961
pull
Entries 93
Mean 507.8
Std Dev 0
pull1D
Entries 93
Mean −0.008725
Std Dev 0.9801

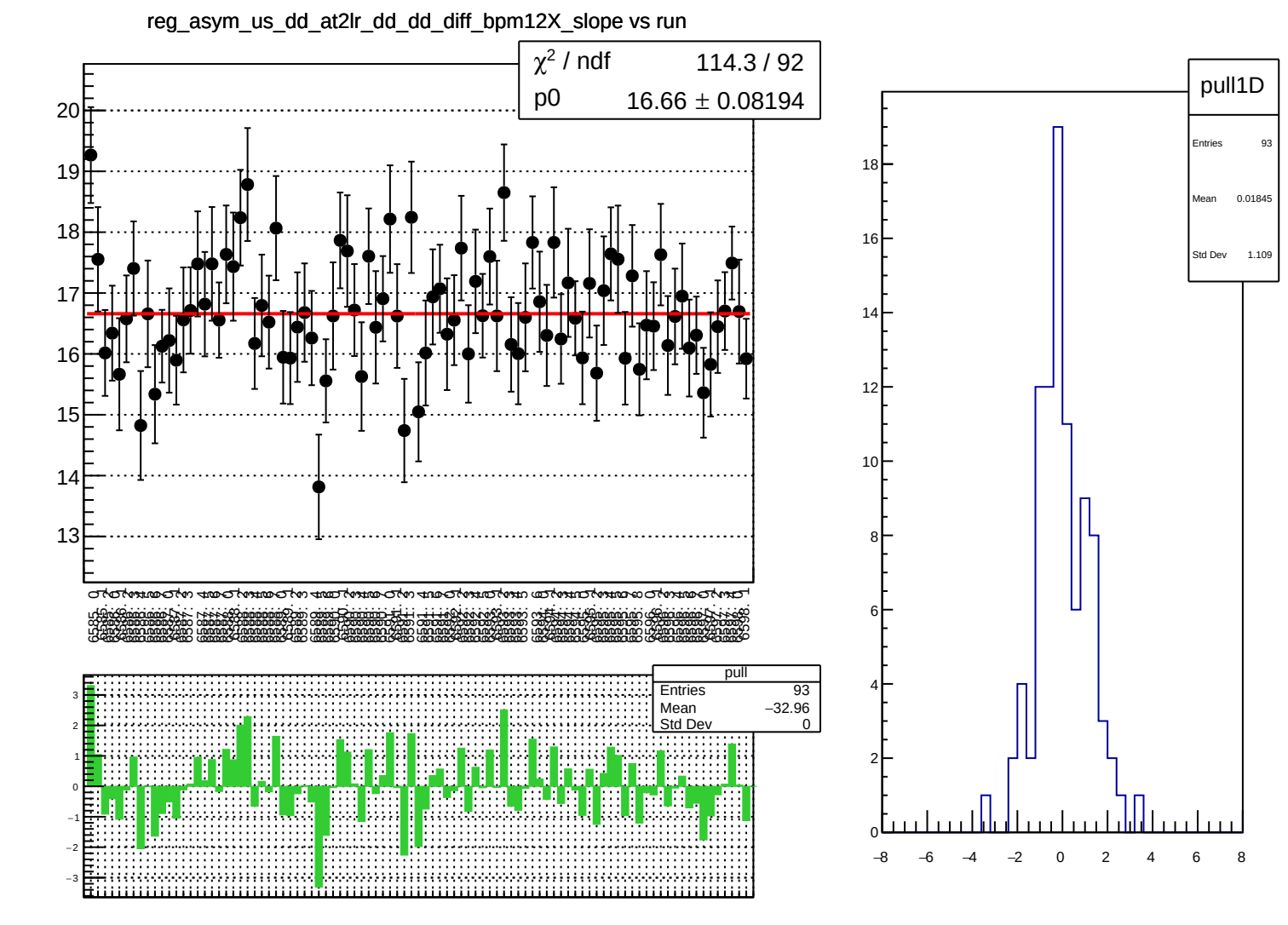

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.19 / 92
p0 −9.871 ± 1.443
pull
Entries 93
Mean 33.72
Std Dev 26.54

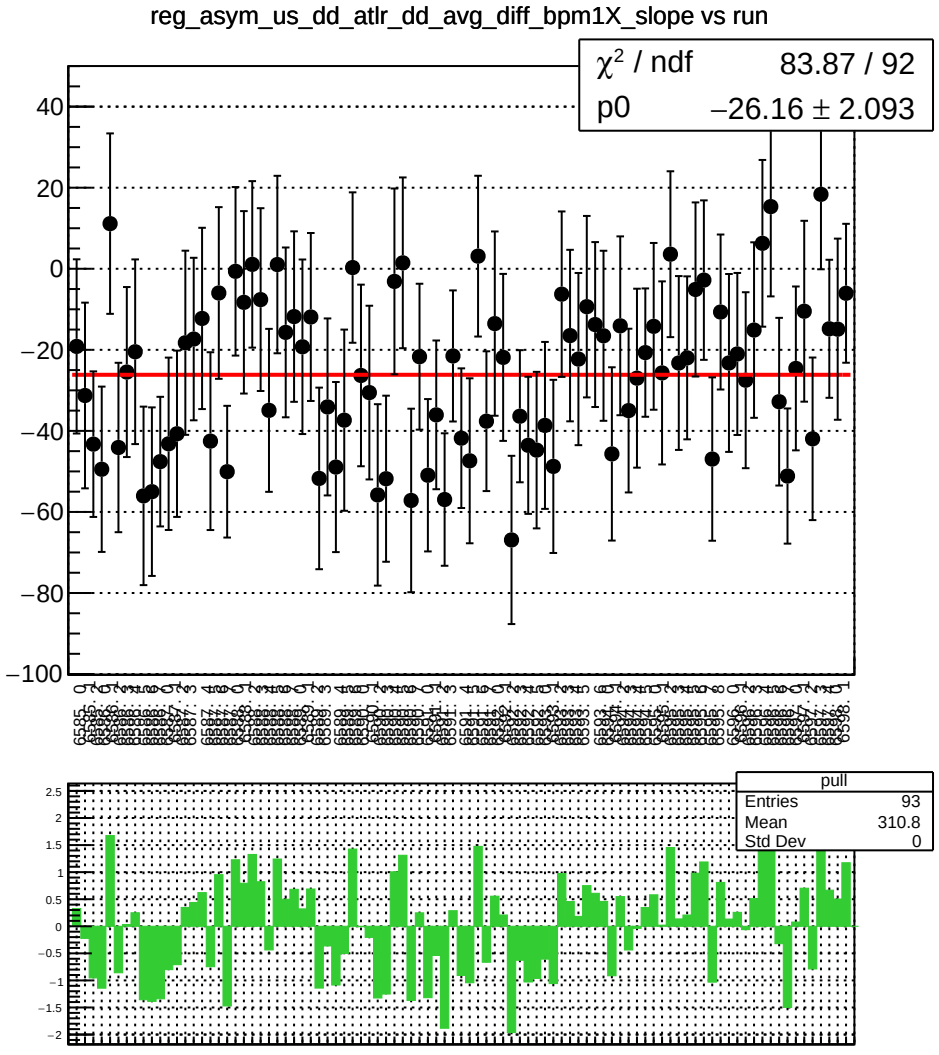

pull1D
Entries 93
Mean −0.02059
Std Dev 0.9791

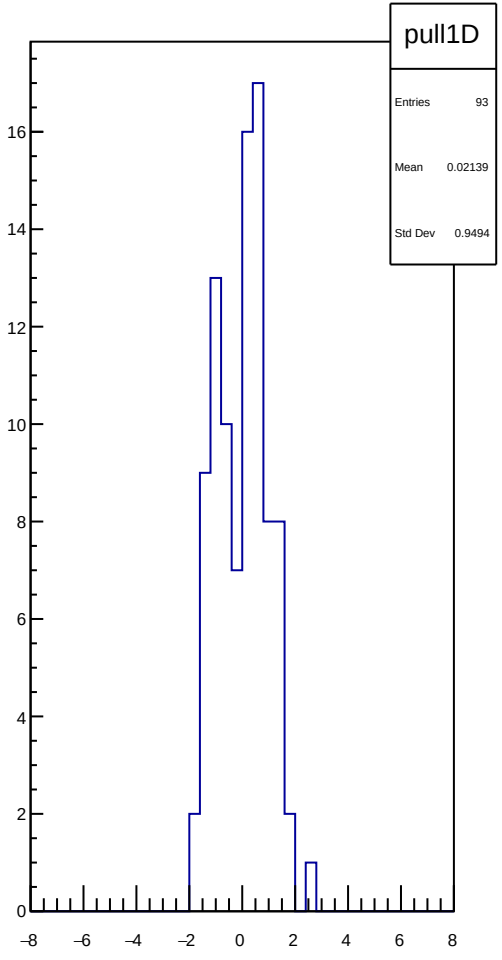

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.69 / 92
p0 −12.34 ± 2.012
pull
Entries 93
Mean 652.9
Std Dev 0
pull1D
Entries 93
Mean 0.00713
Std Dev 0.9655

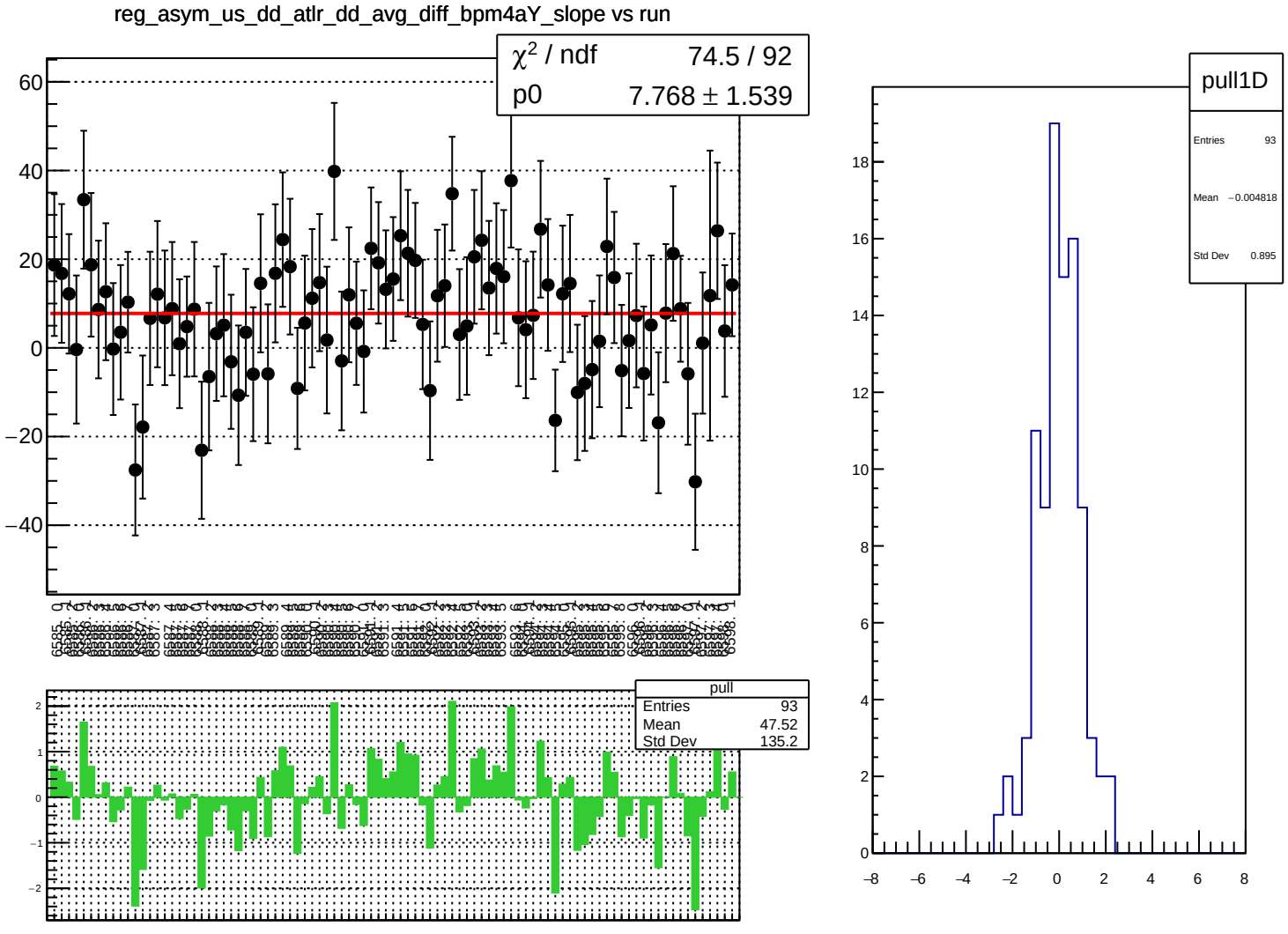

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.45 / 92
p0 4.437 ± 1.71
pull
Entries 93
Mean −23.52
Std Dev 0

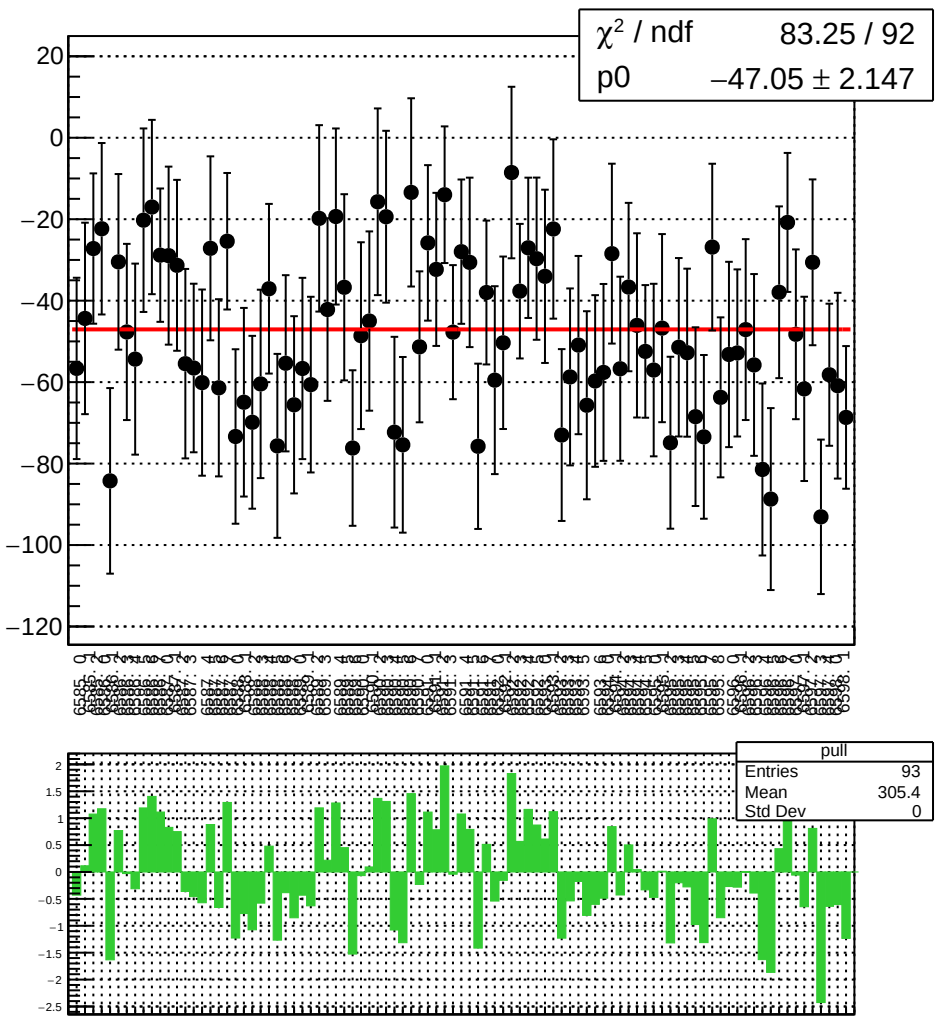

pull1D
Entries 93
Mean 0.02037
Std Dev 0.9805

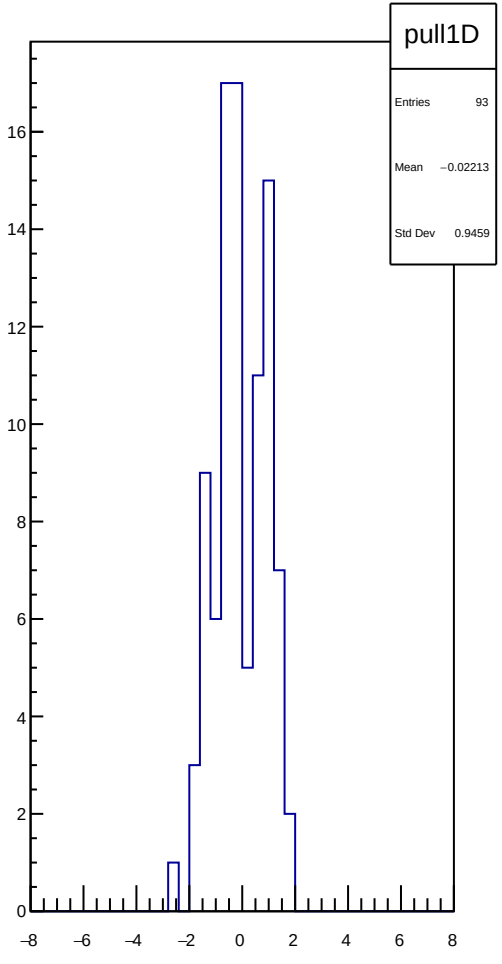

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 114.3 / 92
p0 16.66 ± 0.08194
pull
Entries 93
Mean −32.96
Std Dev 0
pull1D
Entries 93
Mean 0.01845
Std Dev 1.109

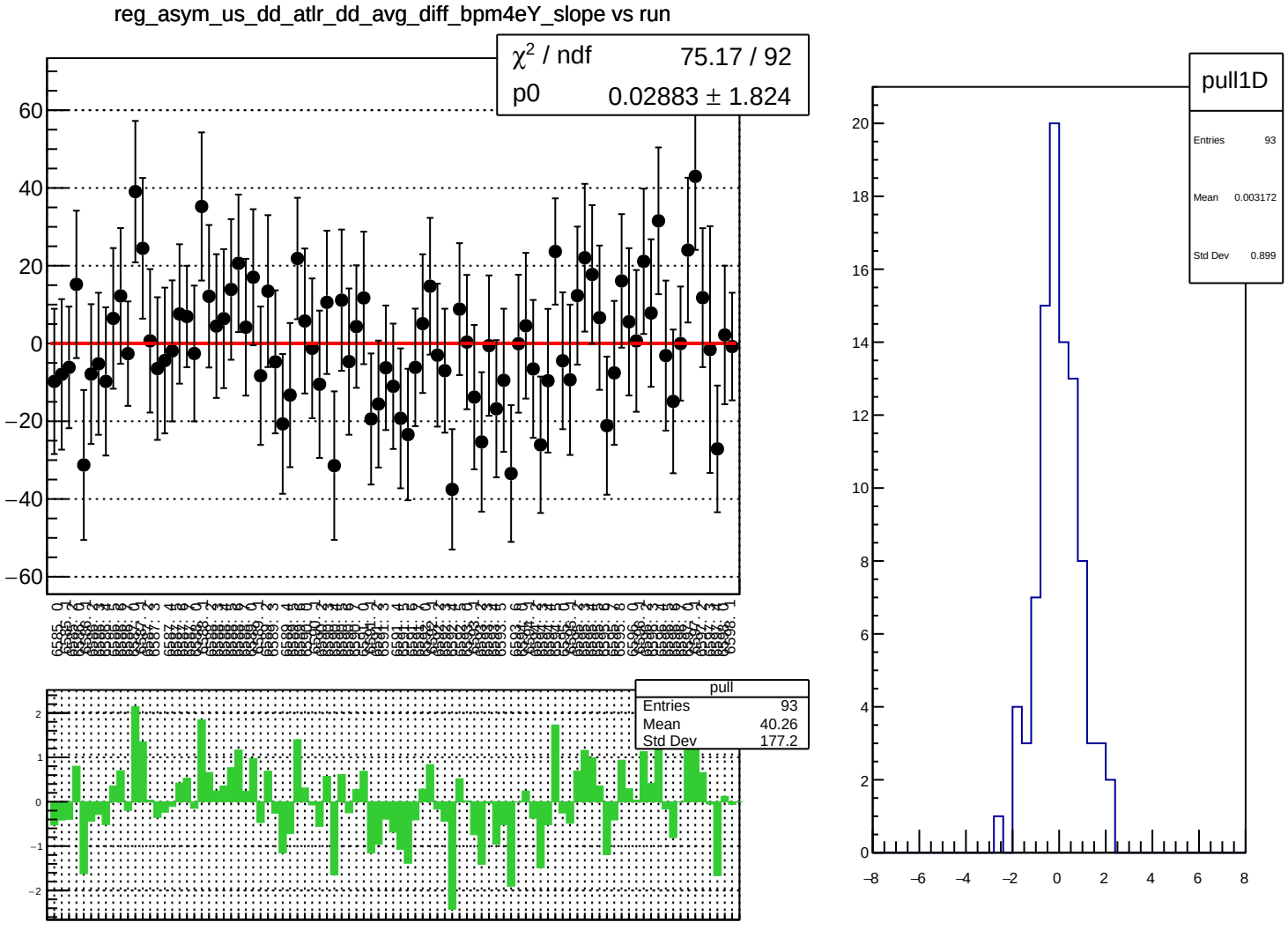

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 83.87 / 92
p0 −26.16 ± 2.093
pull
Entries 93
Mean 310.8
Std Dev 0

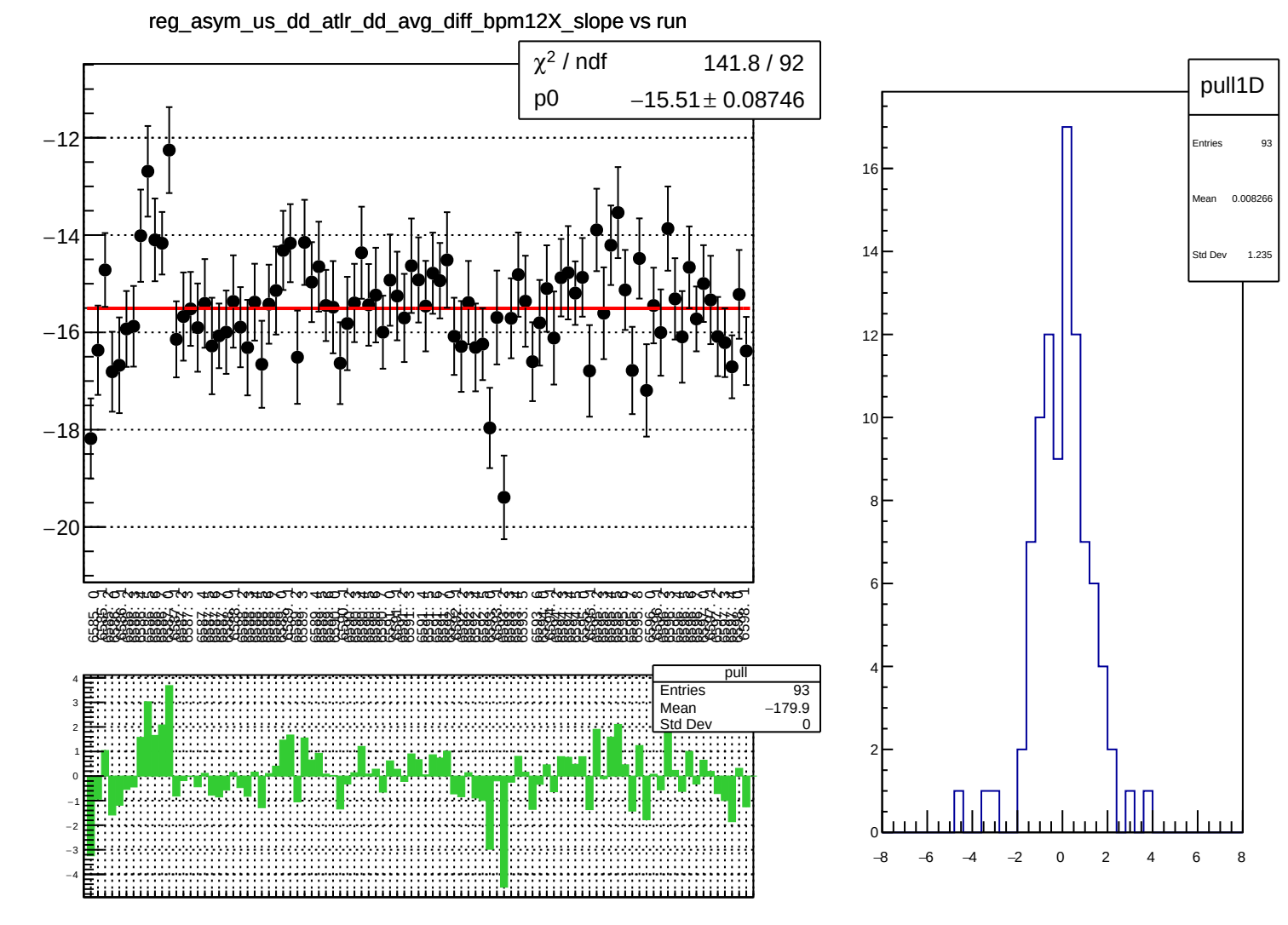

pull1D
Entries 93
Mean 0.02139
Std Dev 0.9494

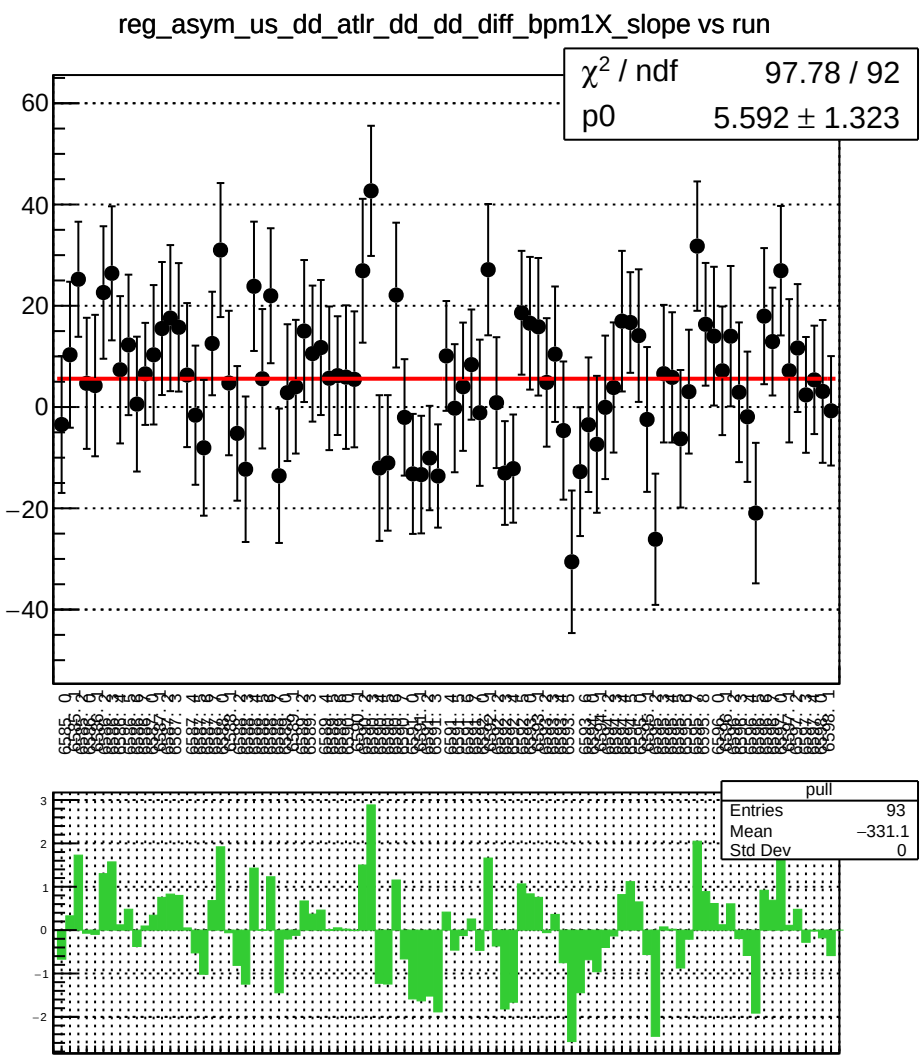

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.5 / 92
p0 7.768 ± 1.539
pull
Entries 93
Mean 47.52
Std Dev 135.2
pull1D
Entries 93
Mean −0.004818
Std Dev 0.895

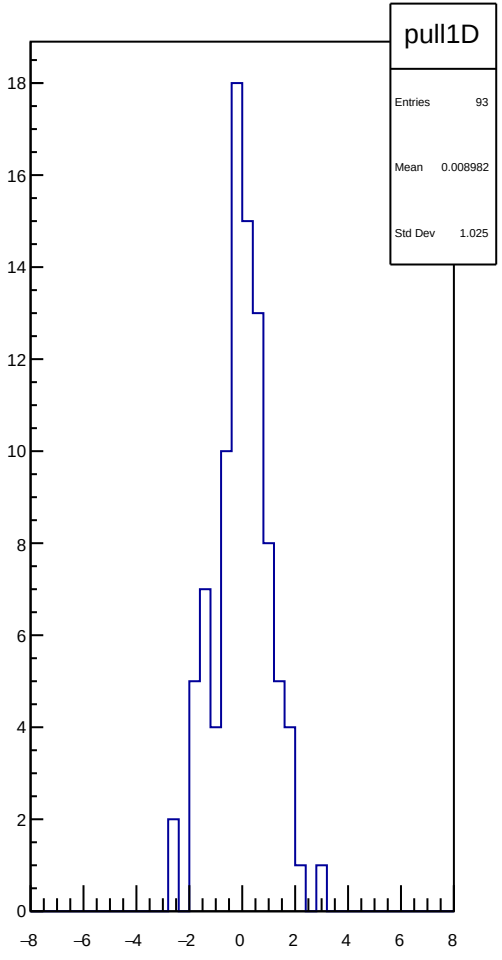

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.25 / 92
p0 −47.05 ± 2.147
pull
Entries 93
Mean 305.4
Std Dev 0

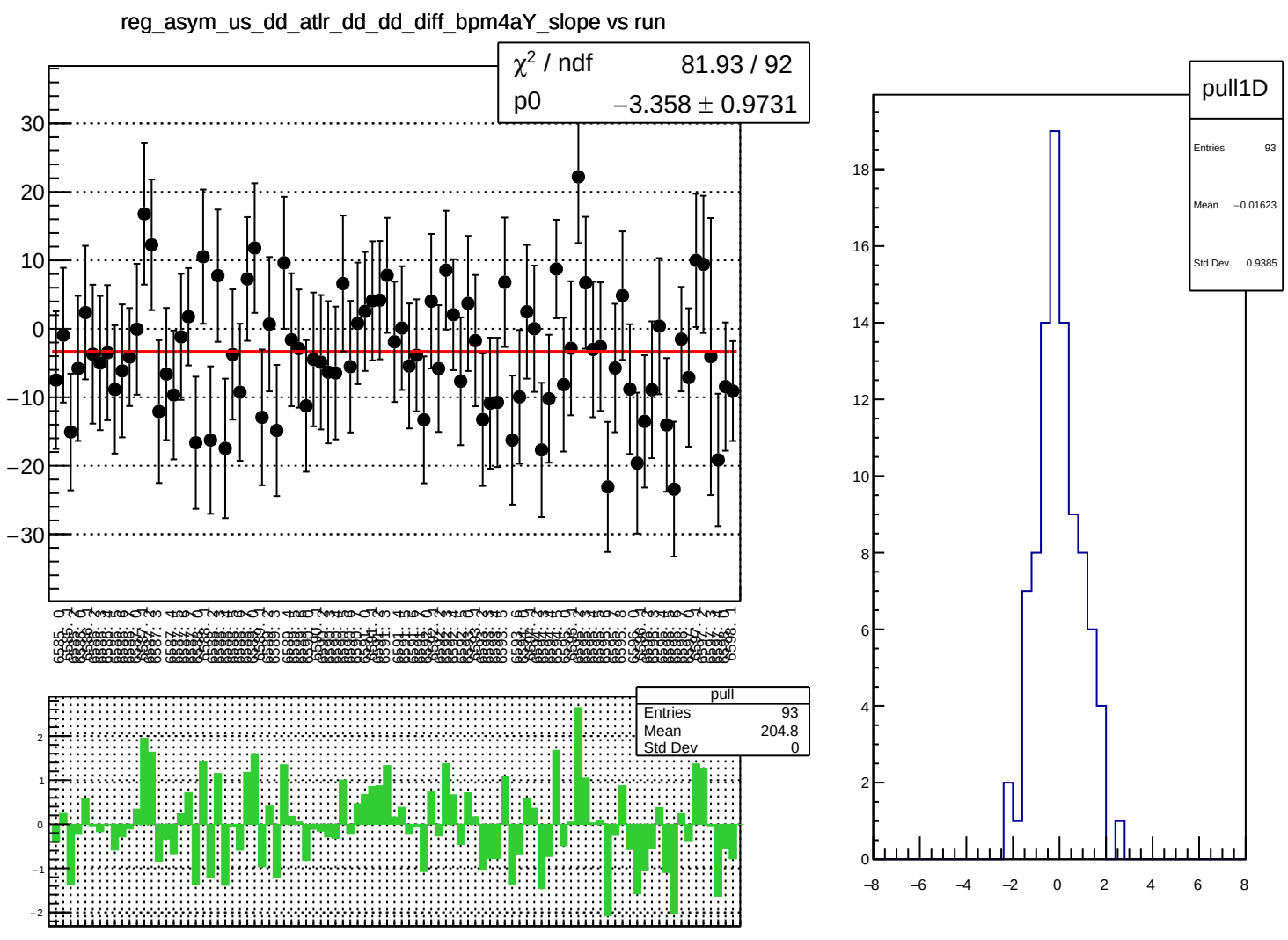

pull1D
Entries 93
Mean −0.02213
Std Dev 0.9459

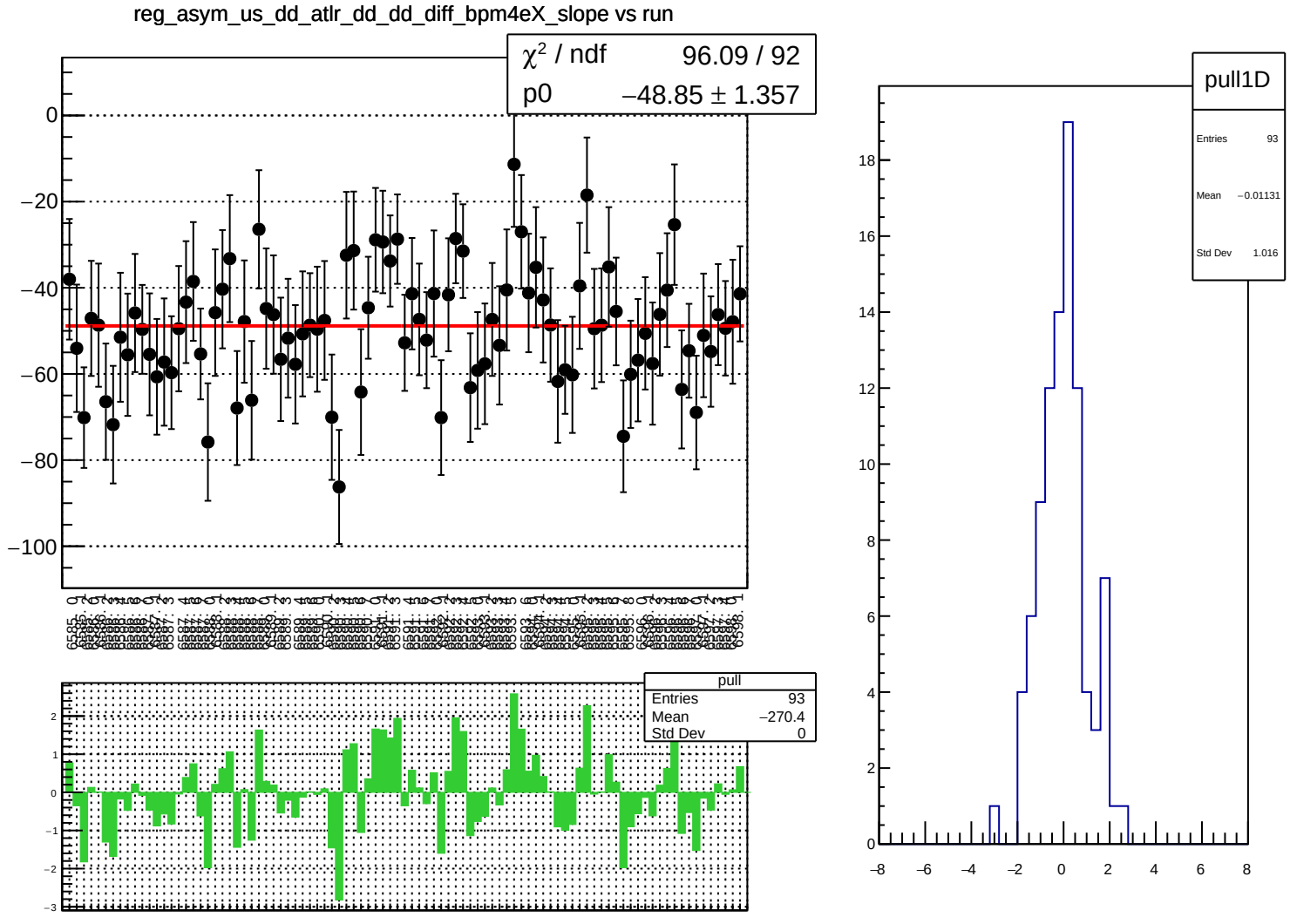

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.17 / 92
p0 0.02883 ± 1.824
pull
Entries 93
Mean 40.26
Std Dev 177.2
pull1D
Entries 93
Mean 0.003172
Std Dev 0.899

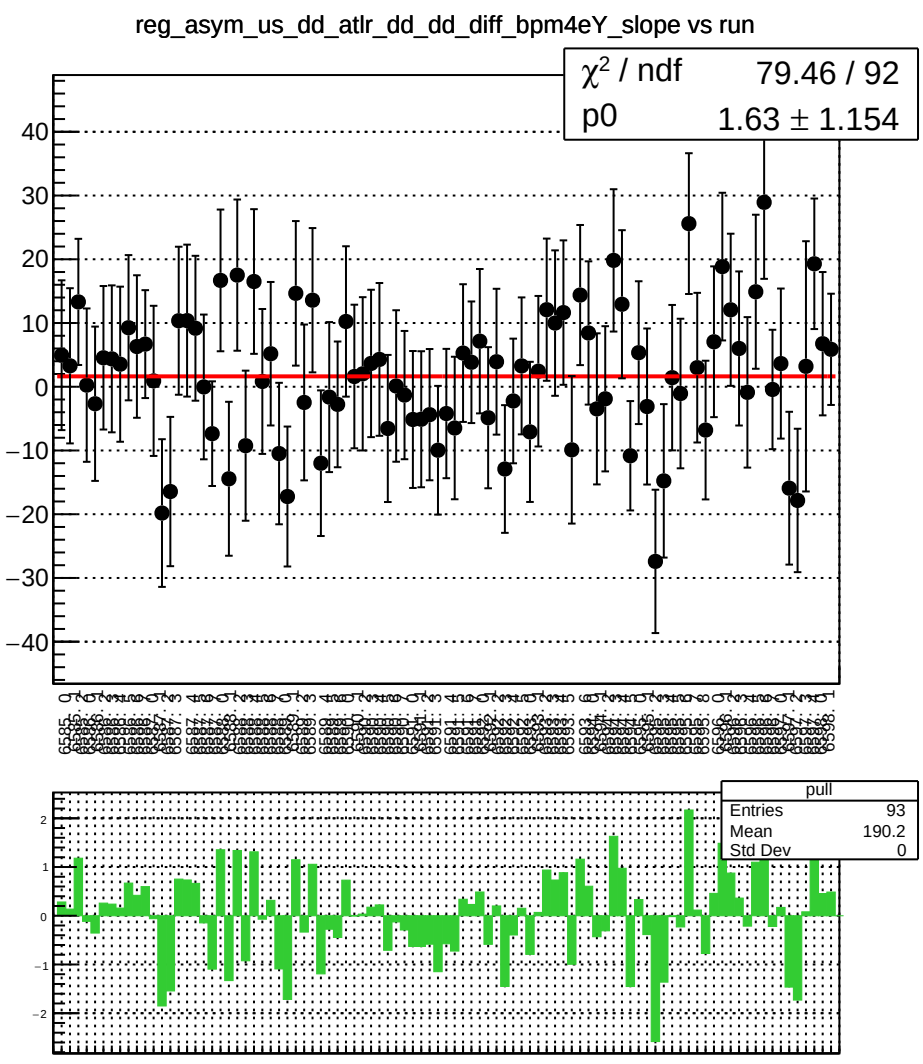

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 141.8 / 92
p0 −15.51 ± 0.08746
−12
−14
−16
−18
−20
pull
Entries 93
Mean −179.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 93
Mean 0.008266
Std Dev 1.235
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

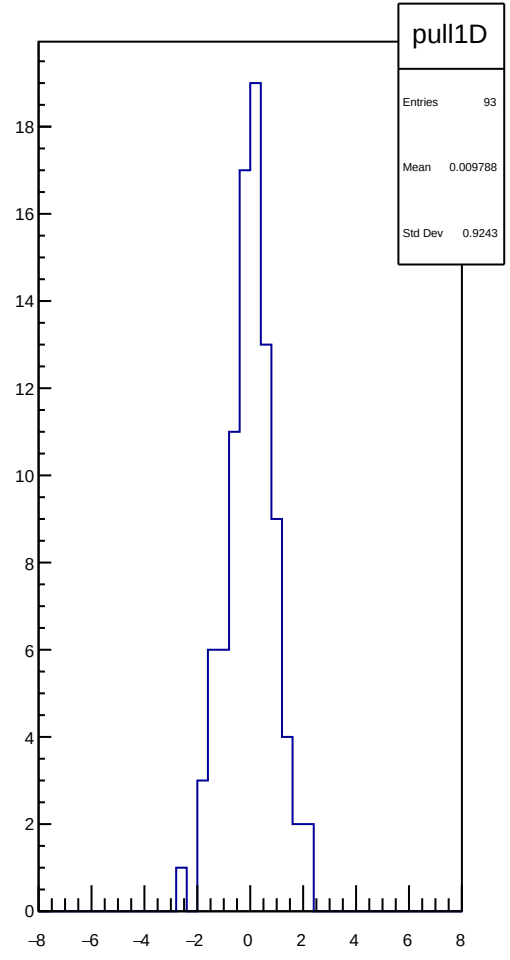

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 97.78 / 92
p0 5.592 ± 1.323
pull
Entries 93
Mean −331.1
Std Dev 0

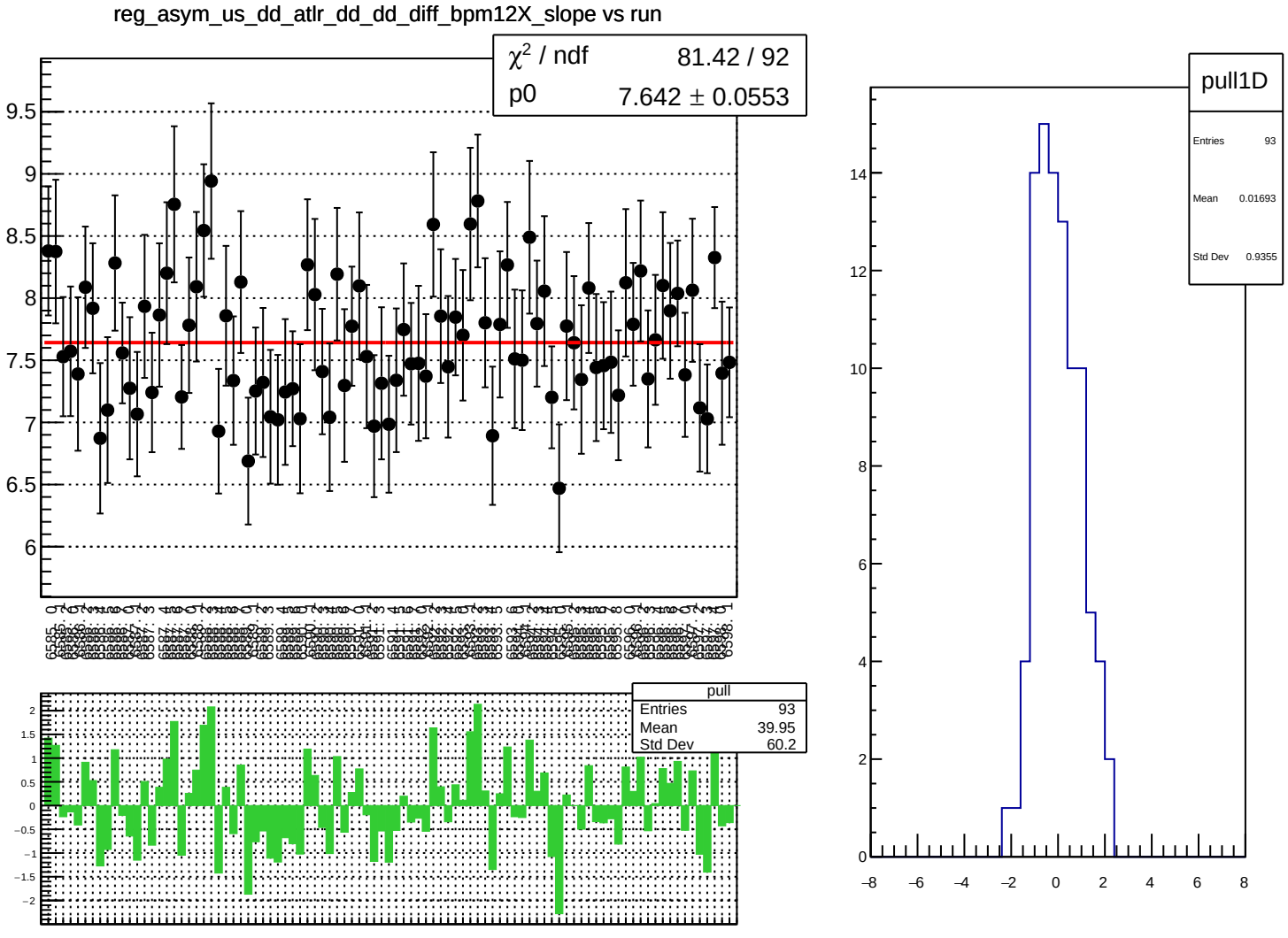

pull1D
Entries 93
Mean 0.008982
Std Dev 1.025

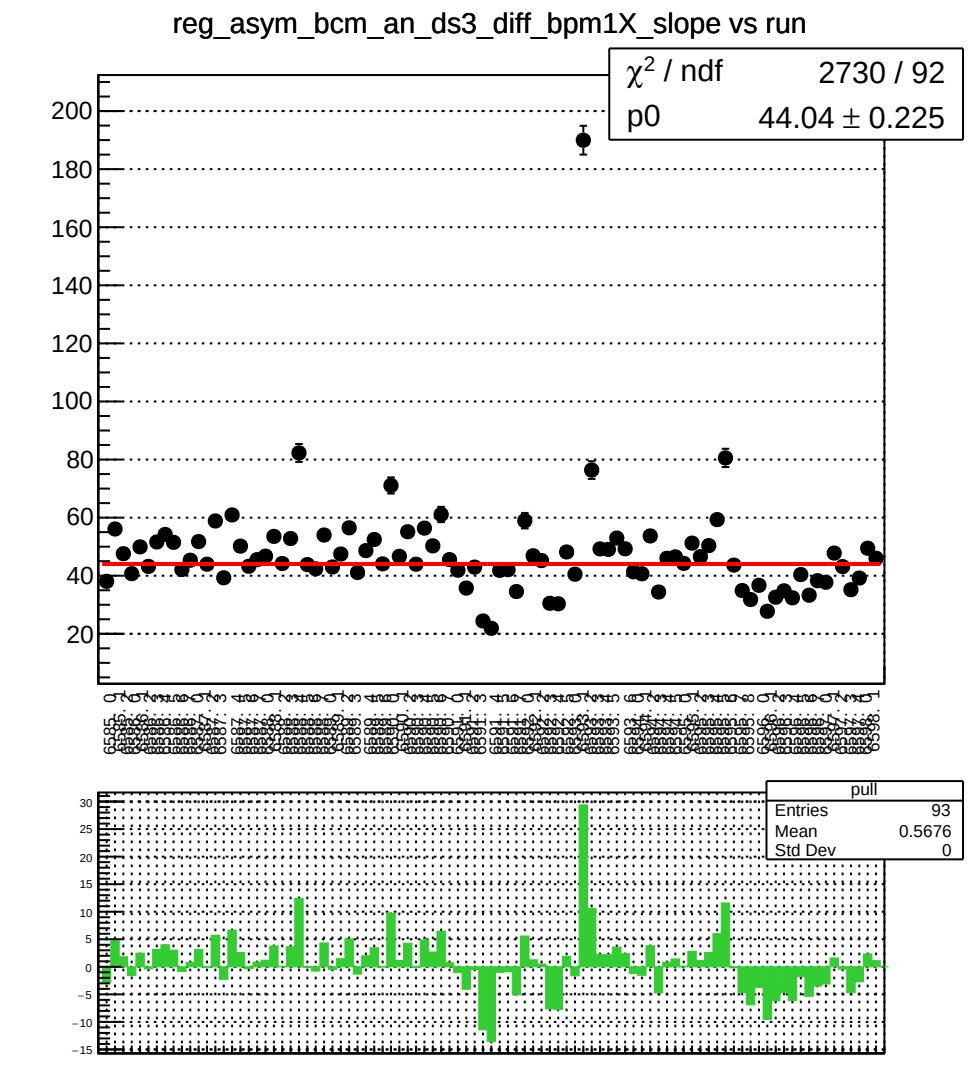

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.93 / 92
p0 −3.358 ± 0.9731
pull
Entries 93
Mean 204.8
Std Dev 0
pull1D
Entries 93
Mean −0.01623
Std Dev 0.9385

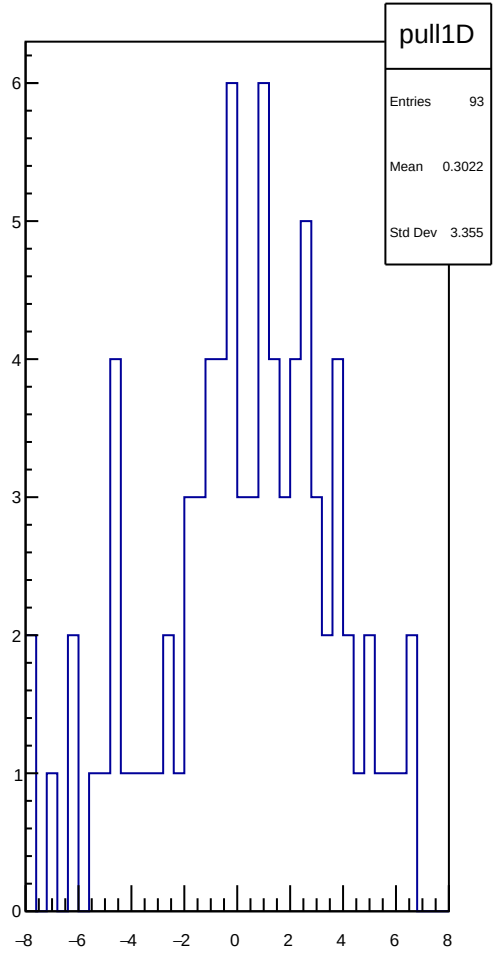

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.09 / 92
p0 −48.85 ± 1.357
pull
Entries 93
Mean −270.4
Std Dev 0
pull1D
Entries 93
Mean −0.01131
Std Dev 1.016

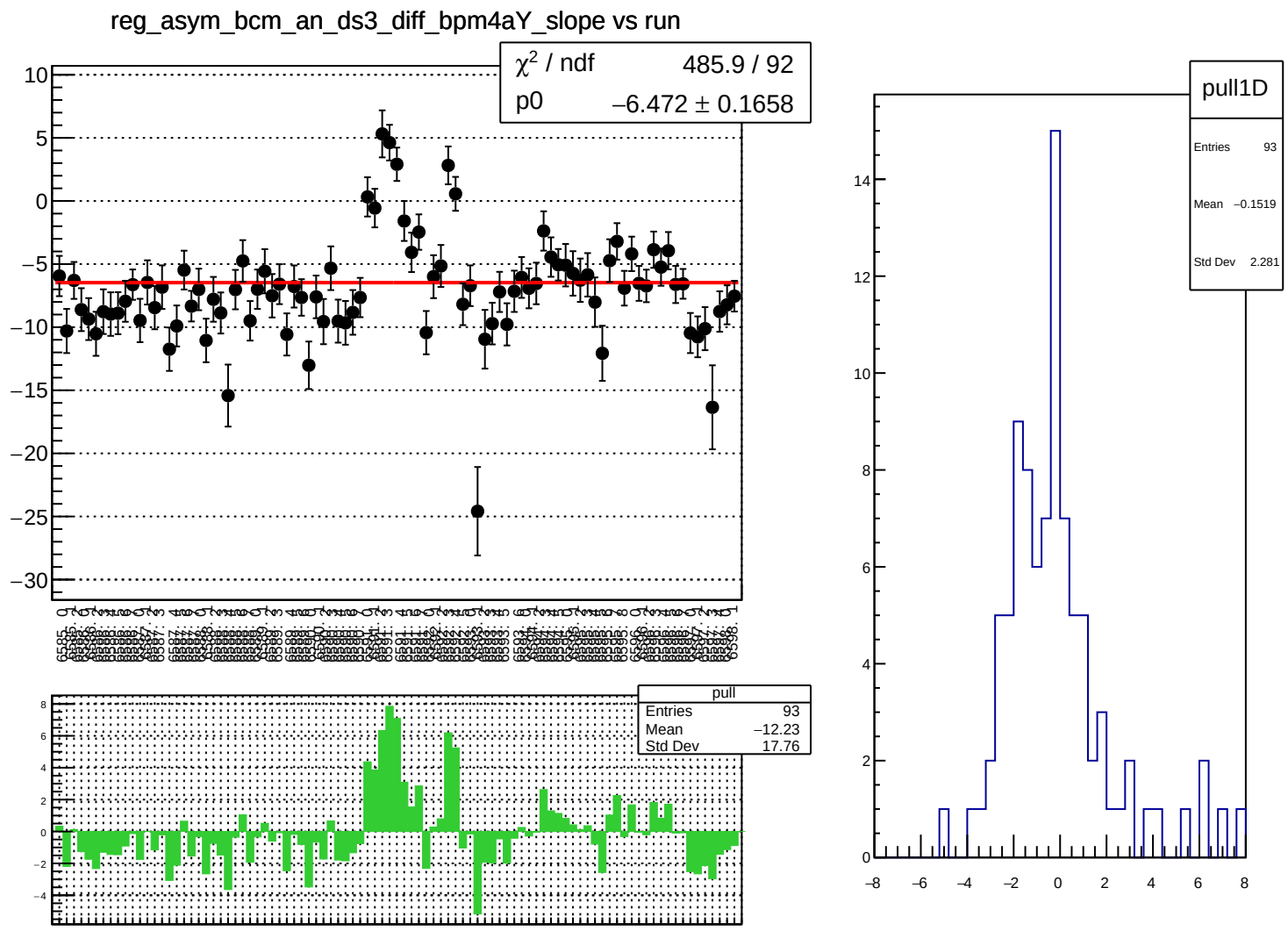

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.46 / 92
p0 1.63 ± 1.154
pull
Entries 93
Mean 190.2
Std Dev 0

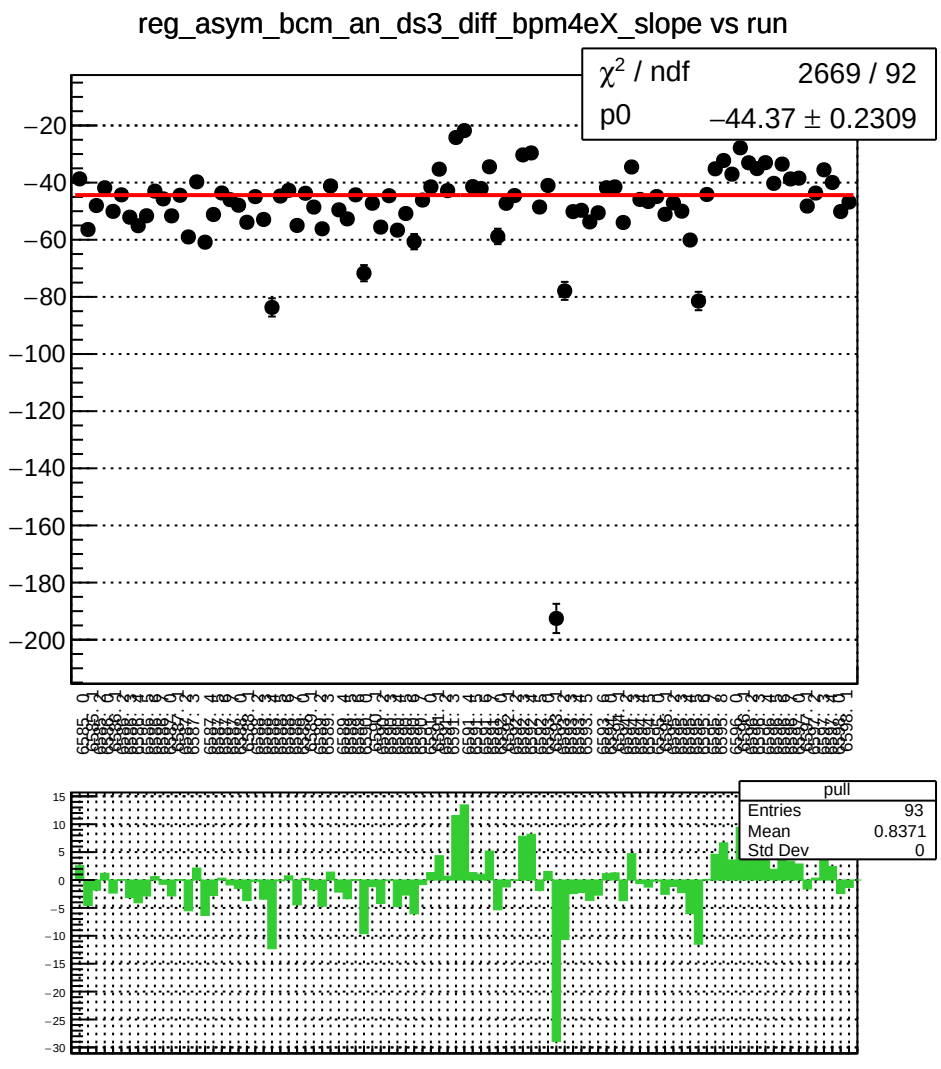

pull1D
Entries 93
Mean 0.009788
Std Dev 0.9243

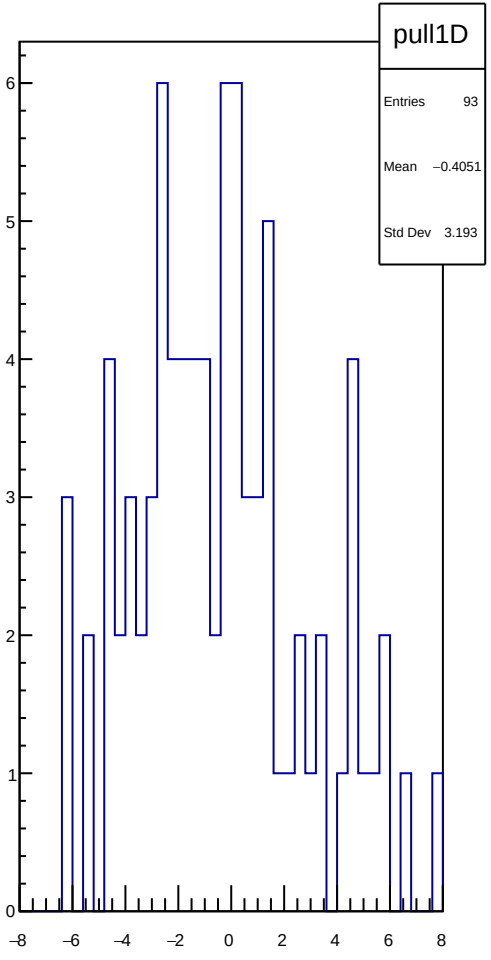

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 81.42 / 92
p0 7.642 ± 0.0553
pull
Entries 93
Mean 39.95
Std Dev 60.2
pull1D
Entries 93
Mean 0.01693
Std Dev 0.9355

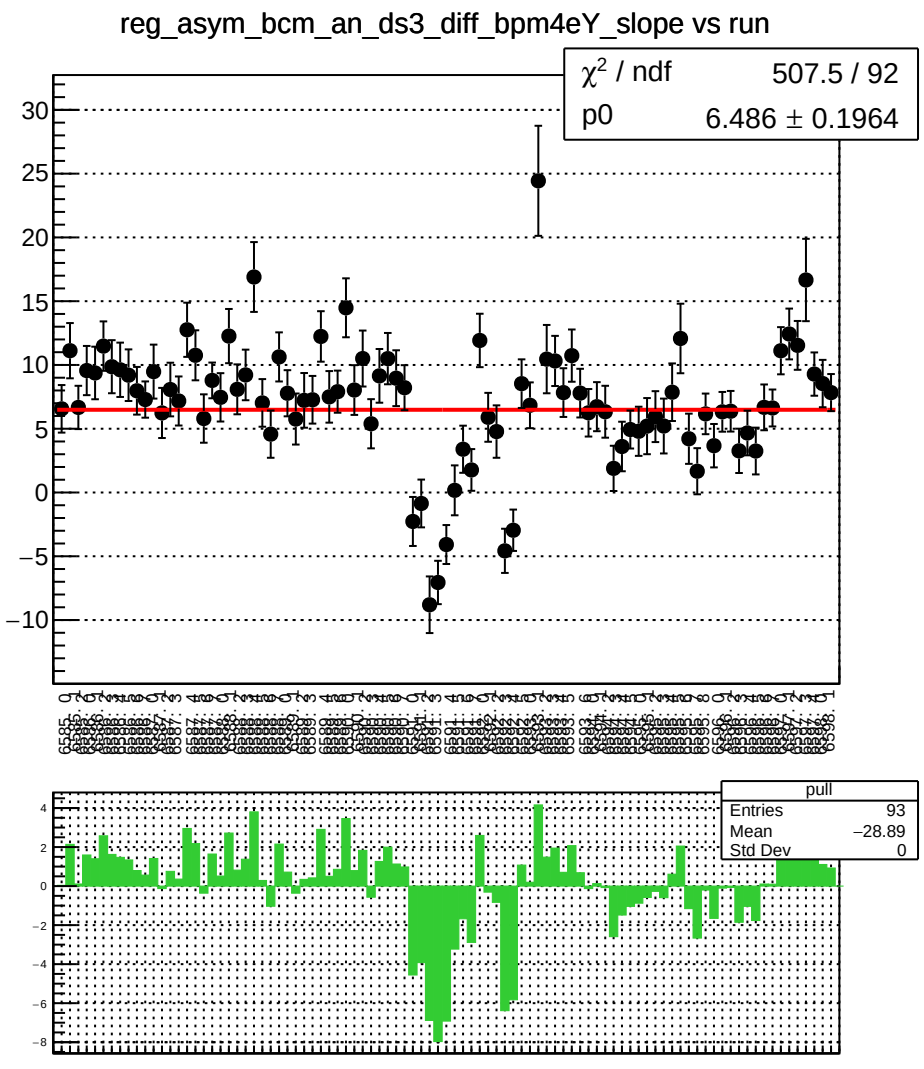

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 2730 / 92
p0 44.04 ± 0.225
pull
Entries 93
Mean 0.5676
Std Dev 0

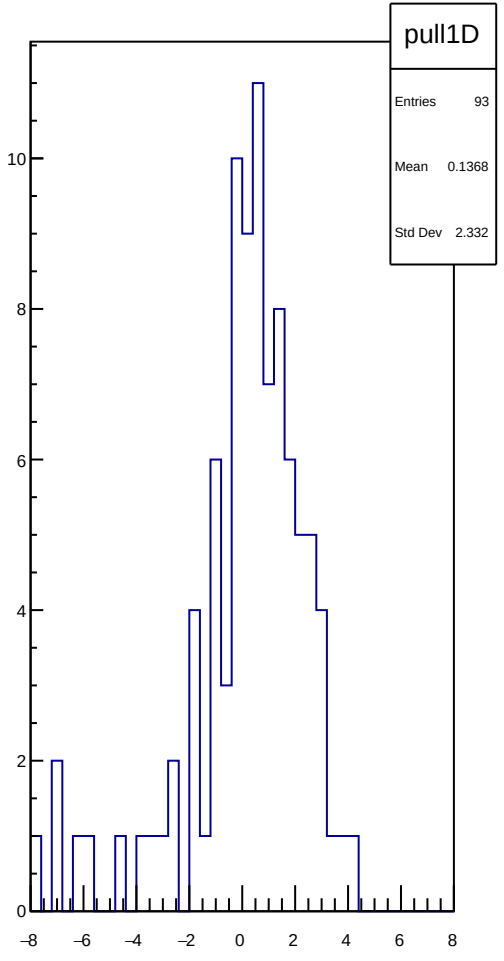

pull1D
Entries 93
Mean 0.3022
Std Dev 3.355

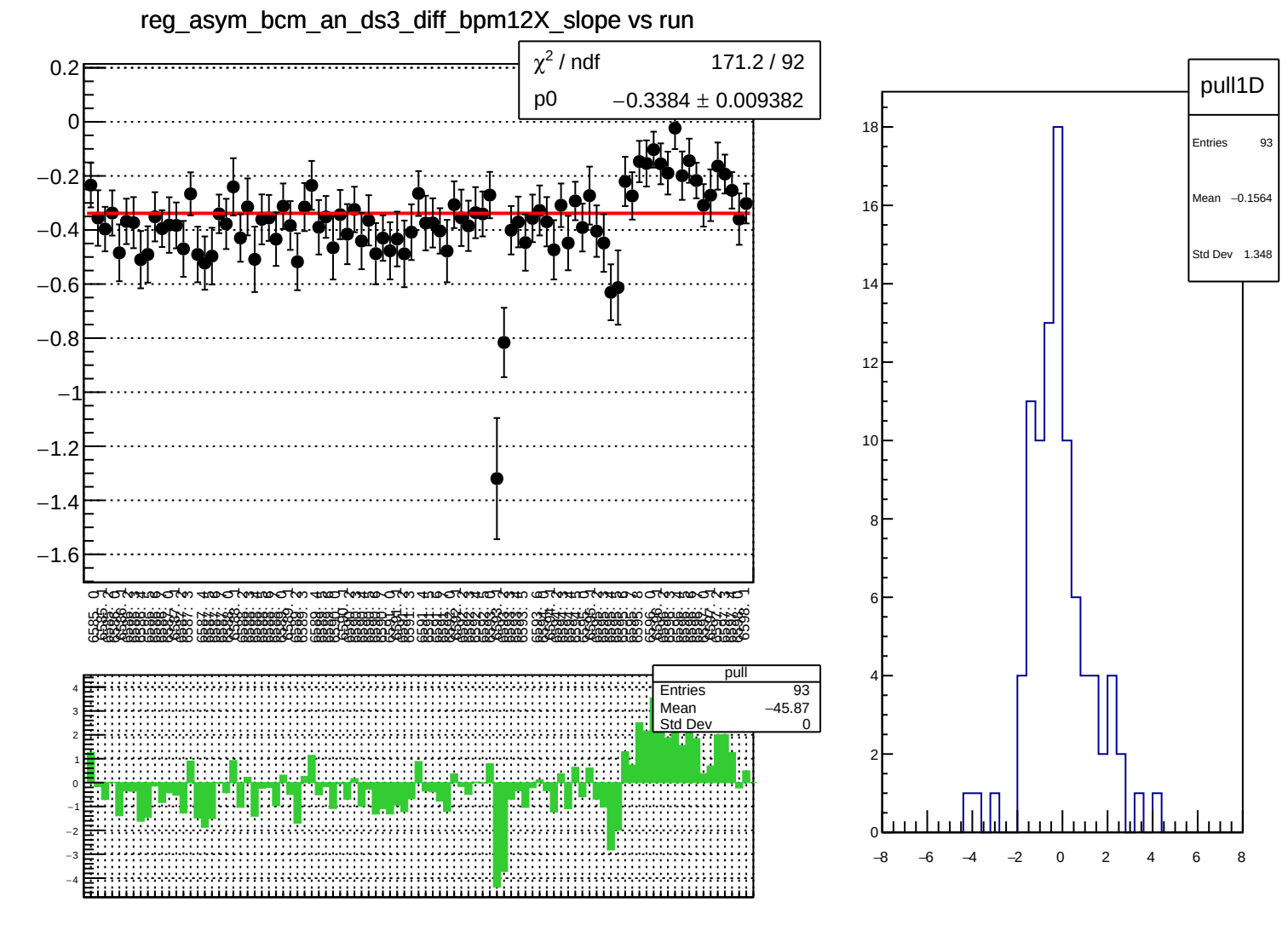

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 485.9 / 92
p0 −6.472 ± 0.1658
pull
Entries 93
Mean −12.23
Std Dev 17.76
pull1D
Entries 93
Mean −0.1519
Std Dev 2.281

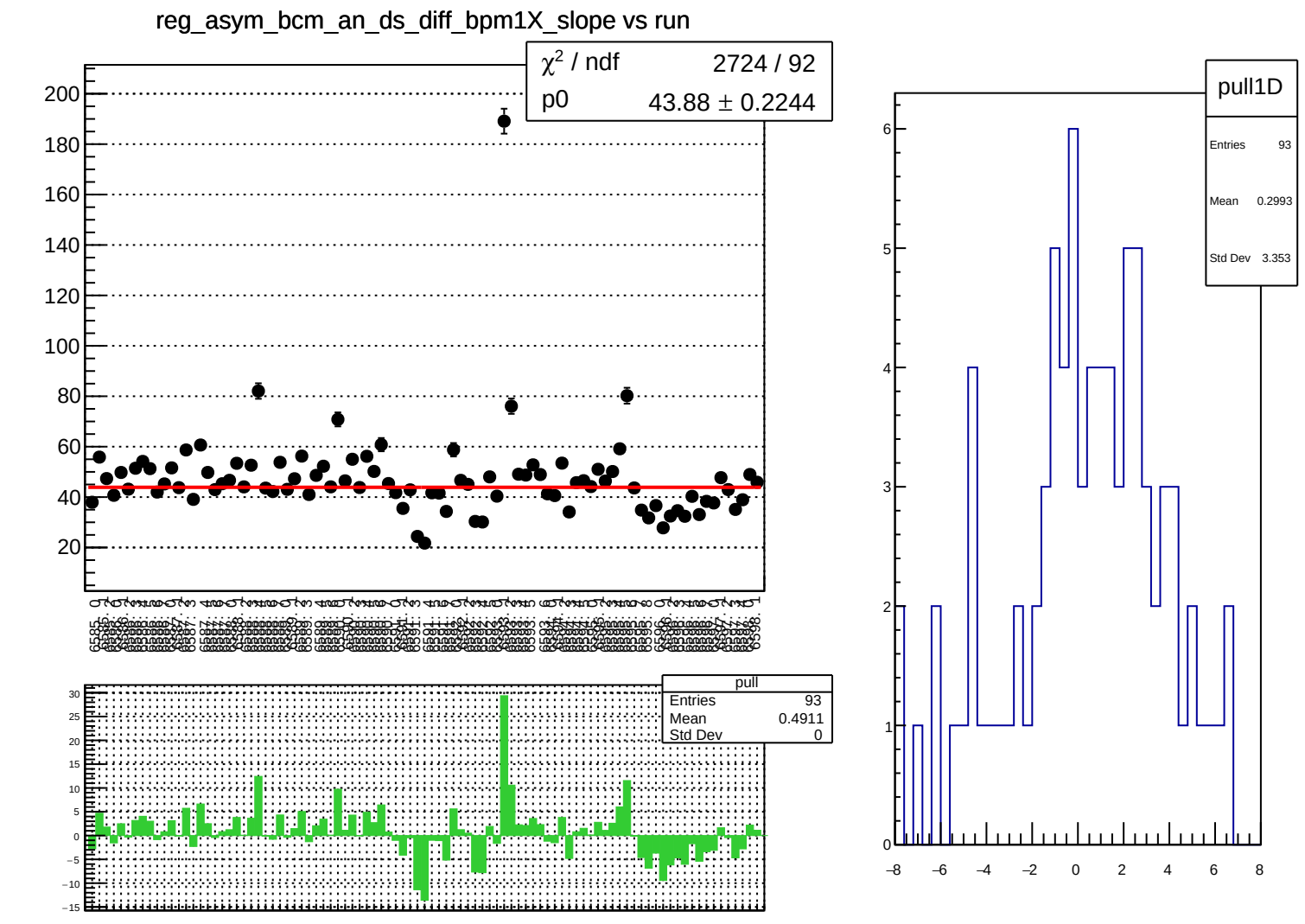

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2669 / 92
p0 −44.37 ± 0.2309
pull
Entries 93
Mean 0.8371
Std Dev 0

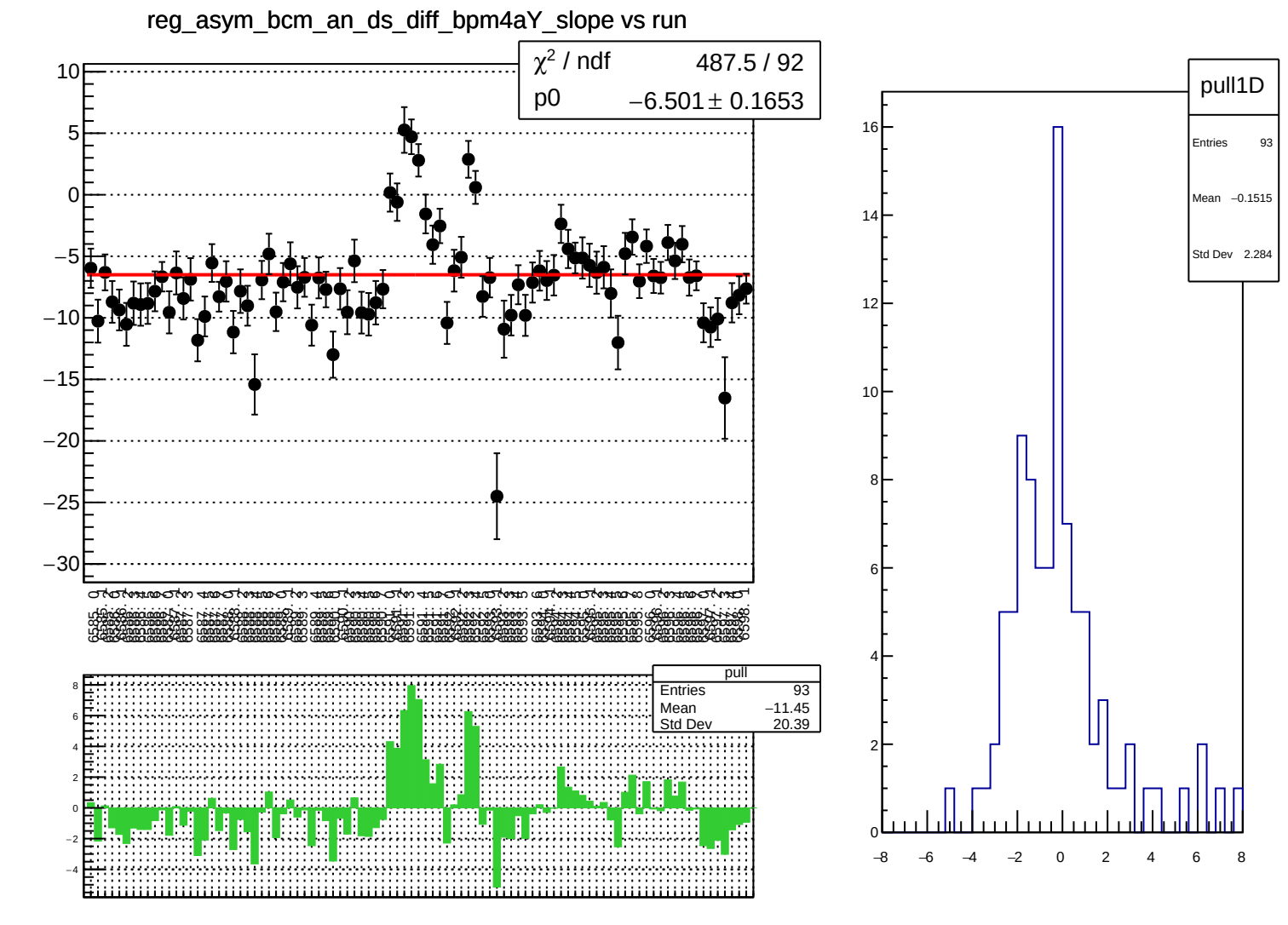

pull1D
Entries 93
Mean −0.4051
Std Dev 3.193

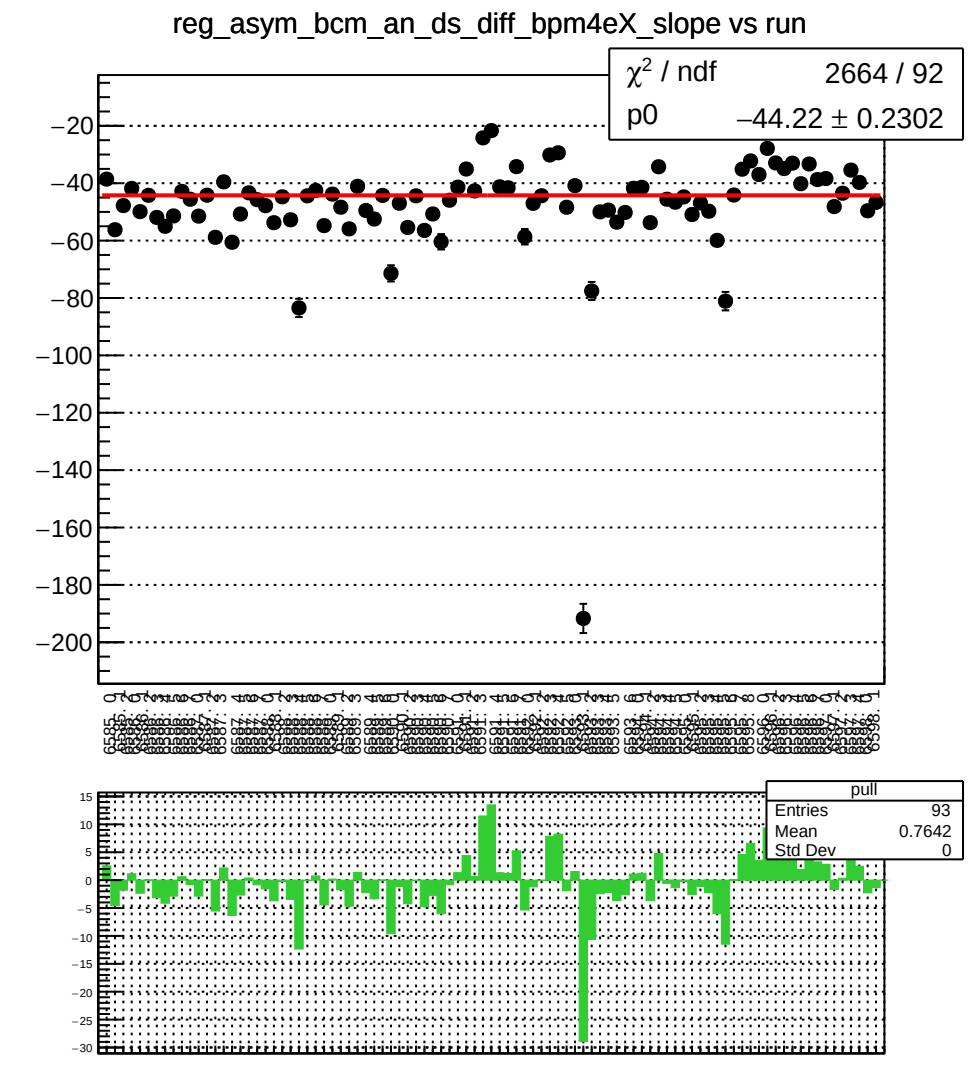

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 507.5 / 92
p0 6.486 ± 0.1964
pull
Entries 93
Mean −28.89
Std Dev 0

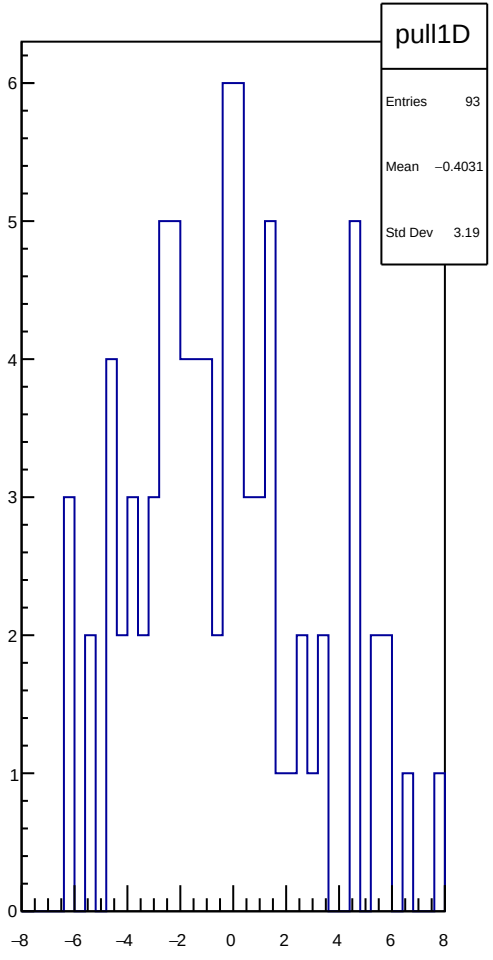

pull1D
Entries 93
Mean 0.1368
Std Dev 2.332

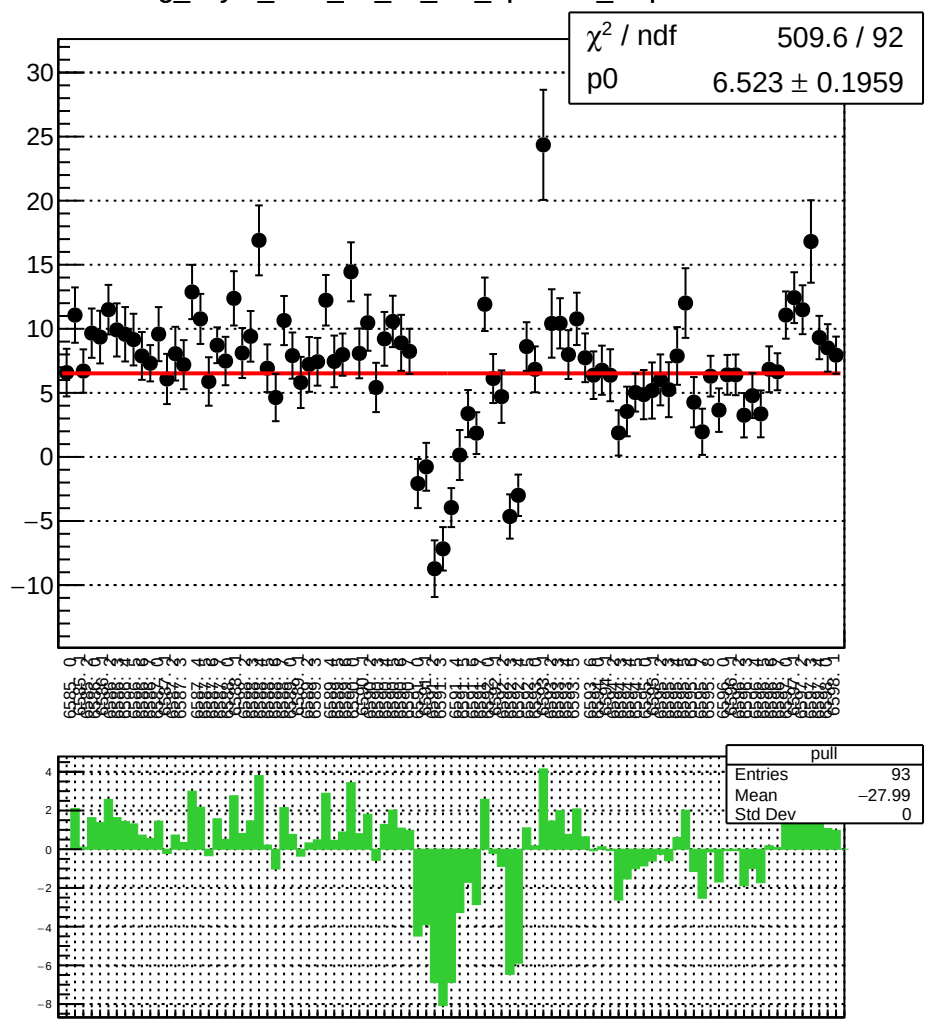

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 171.2 / 92
p0 −0.3384 ± 0.009382
pull
Entries 93
Mean −45.87
Std Dev 0
pull1D
Entries 93
Mean −0.1564
Std Dev 1.348

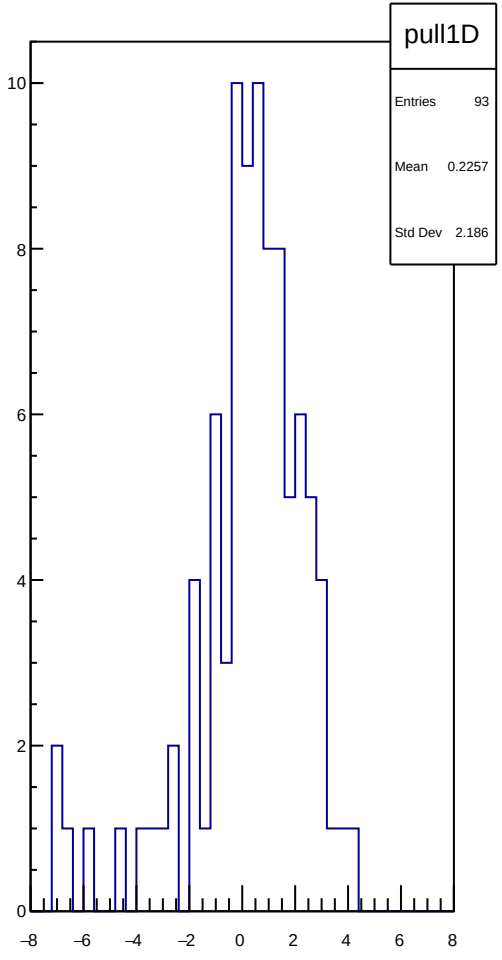

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 2724 / 92
p0 43.88 ± 0.2244
pull
Entries 93
Mean 0.4911
Std Dev 0
pull1D
Entries 93
Mean 0.2993
Std Dev 3.353

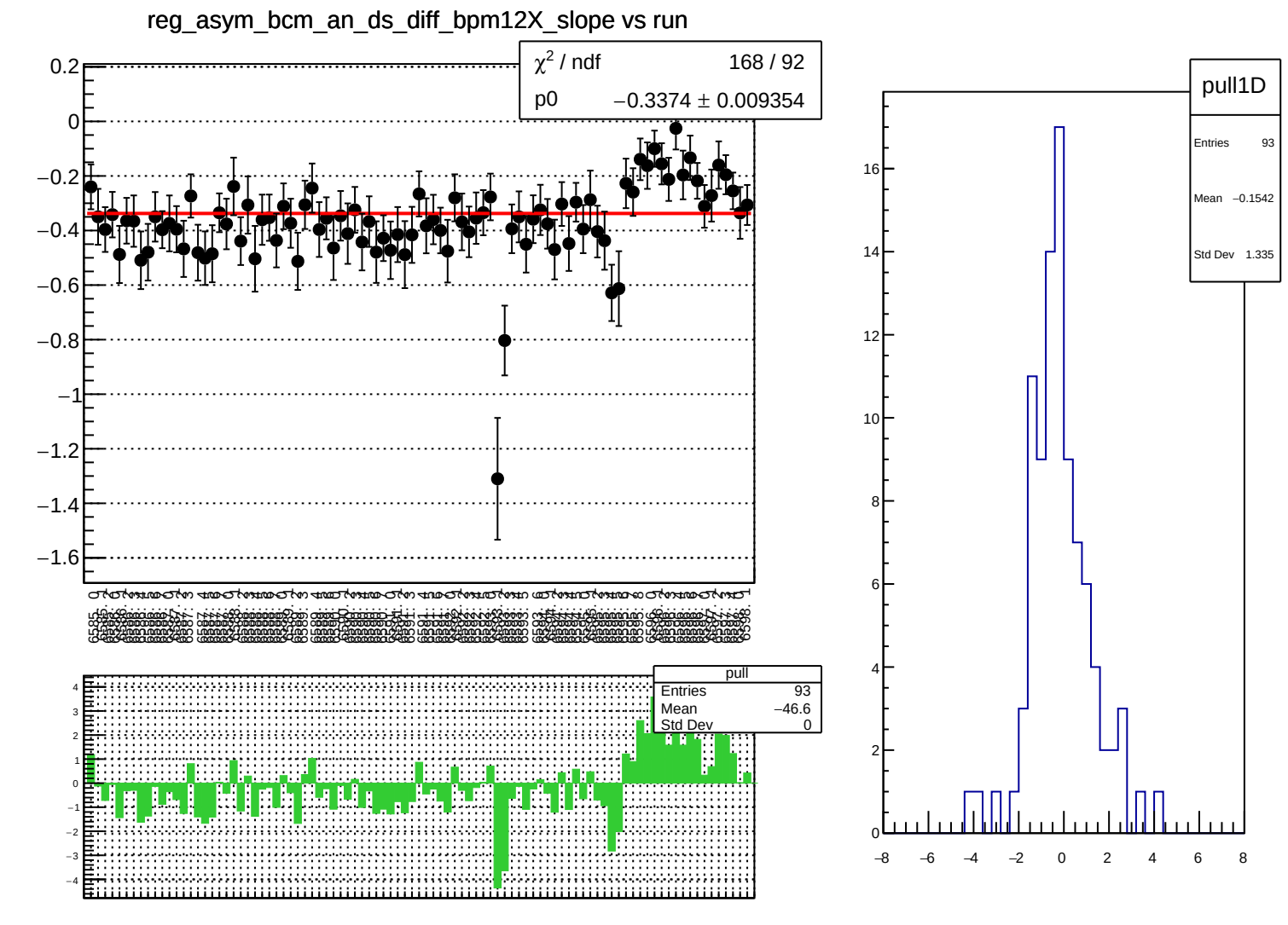

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 487.5 / 92
p0 −6.501 ± 0.1653
pull
Entries 93
Mean −11.45
Std Dev 20.39
pull1D
Entries 93
Mean −0.1515
Std Dev 2.284

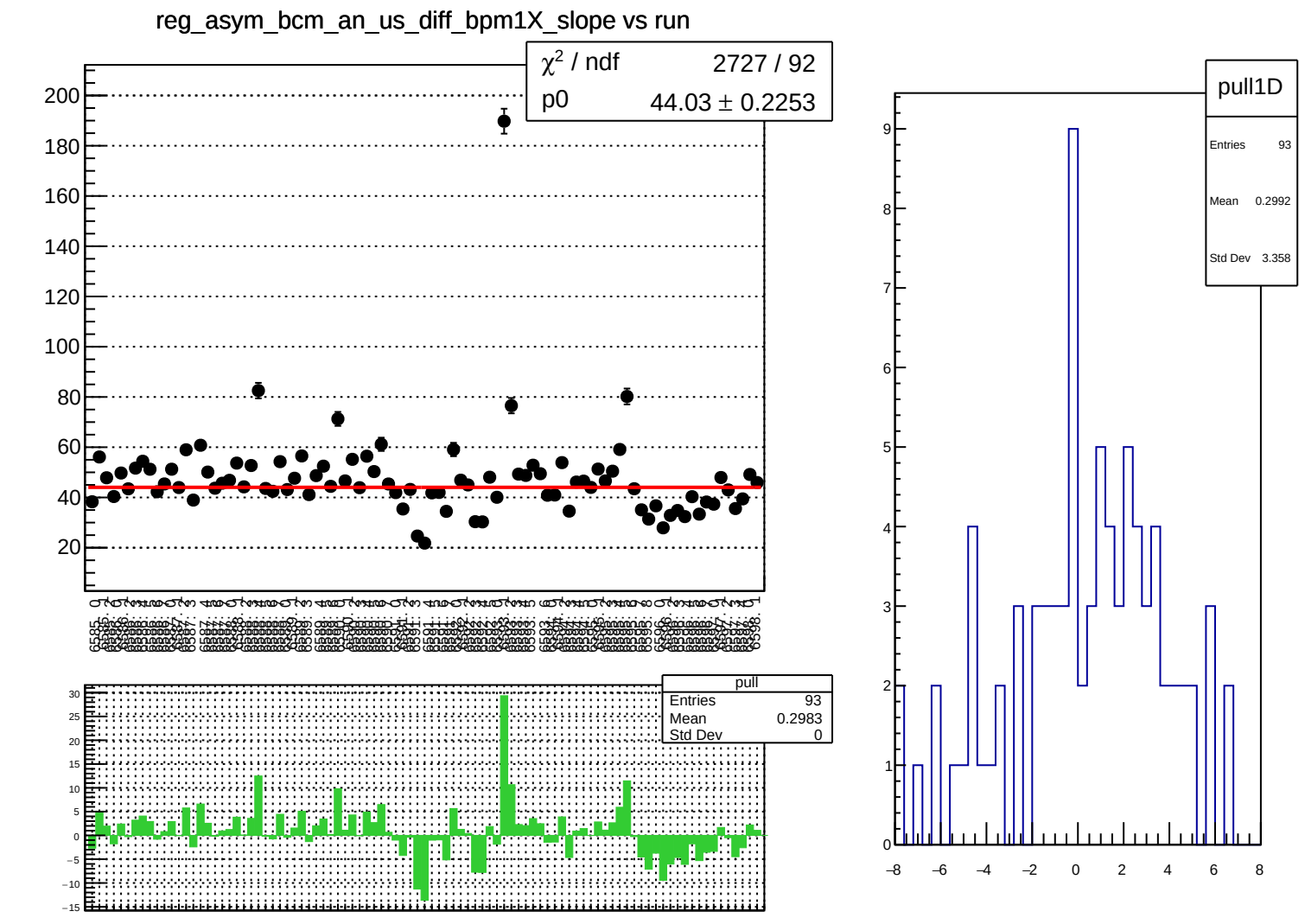

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2664 / 92
p0 −44.22 ± 0.2302
pull
Entries 93
Mean 0.7642
Std Dev 0

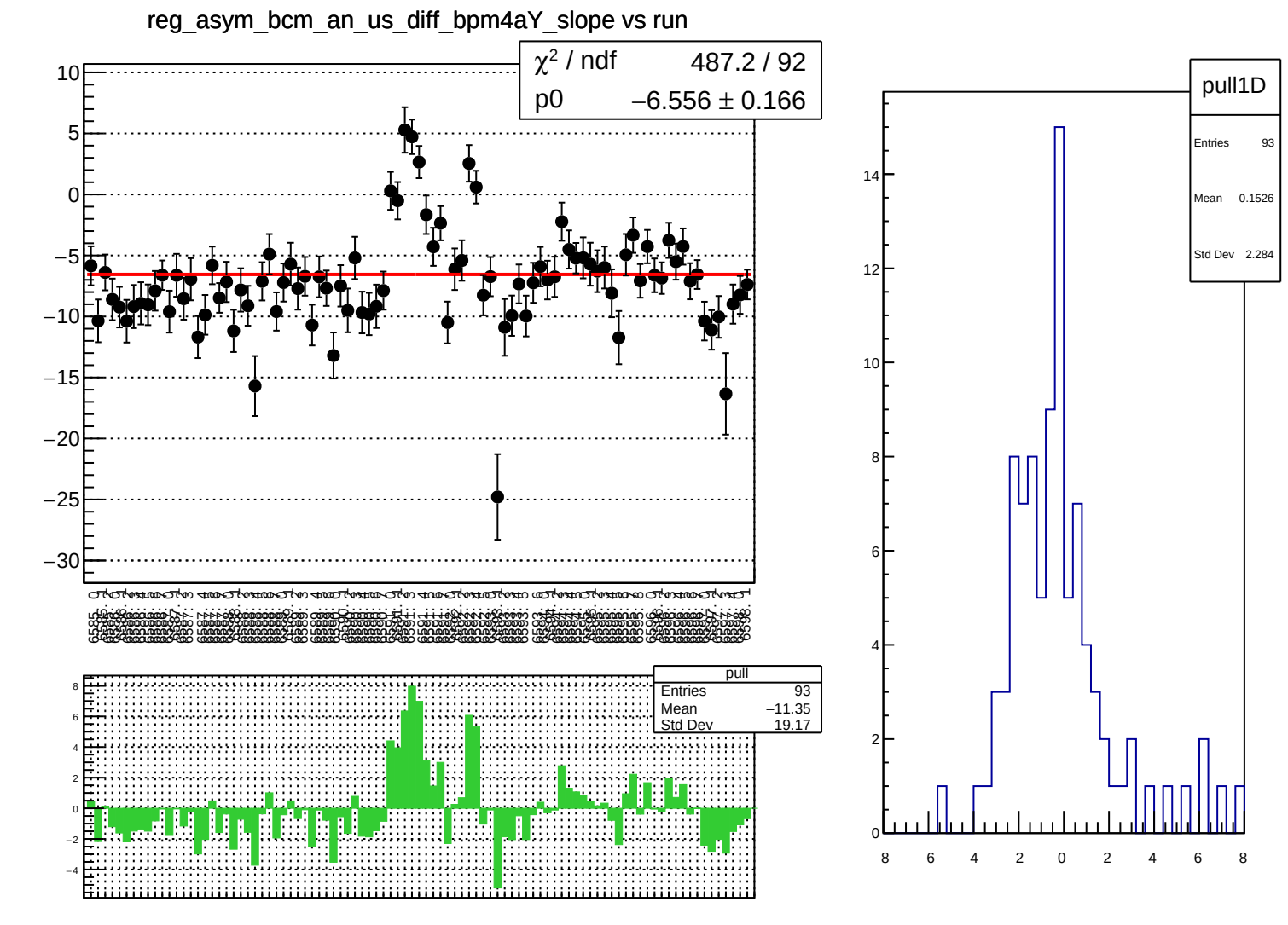

pull1D
Entries 93
Mean −0.4031
Std Dev 3.19

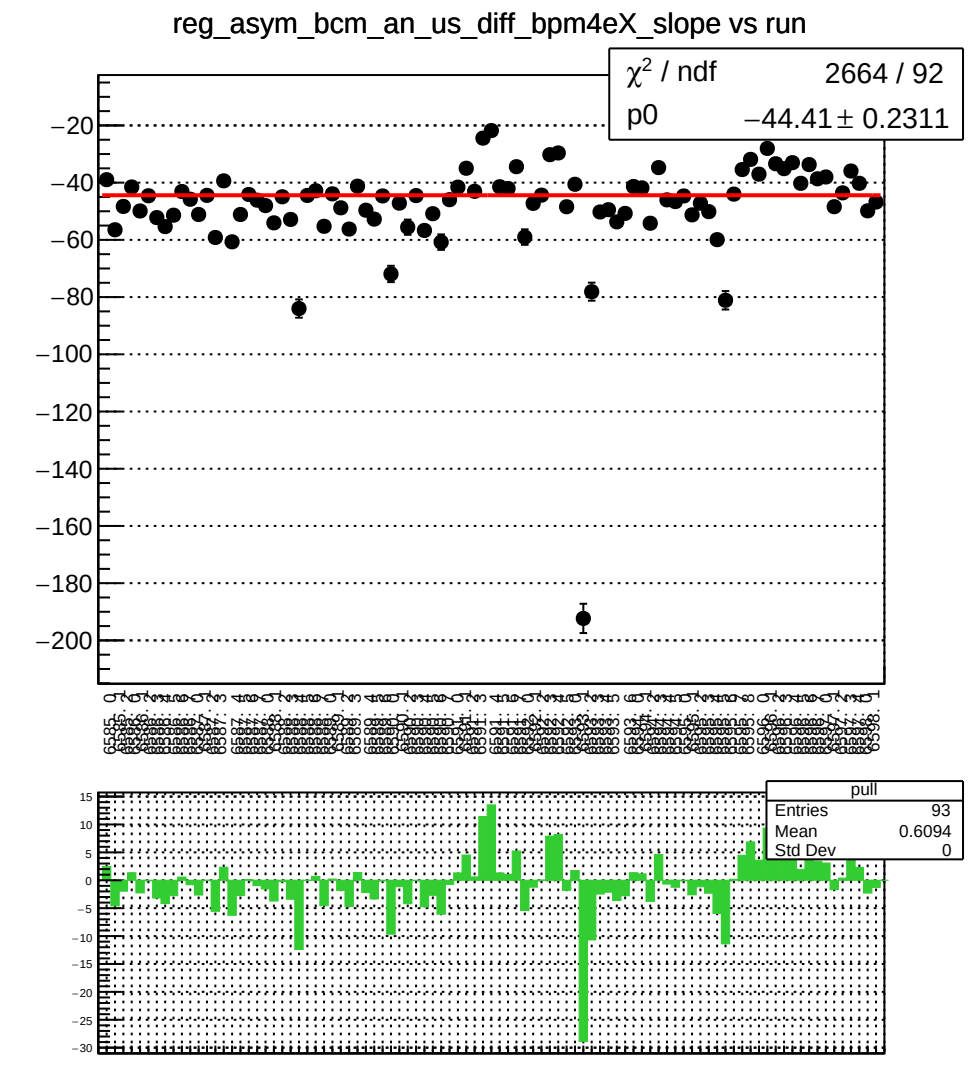

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 509.6 / 92
p0 6.523 ± 0.1959
pull
Entries 93
Mean −27.99
Std Dev 0

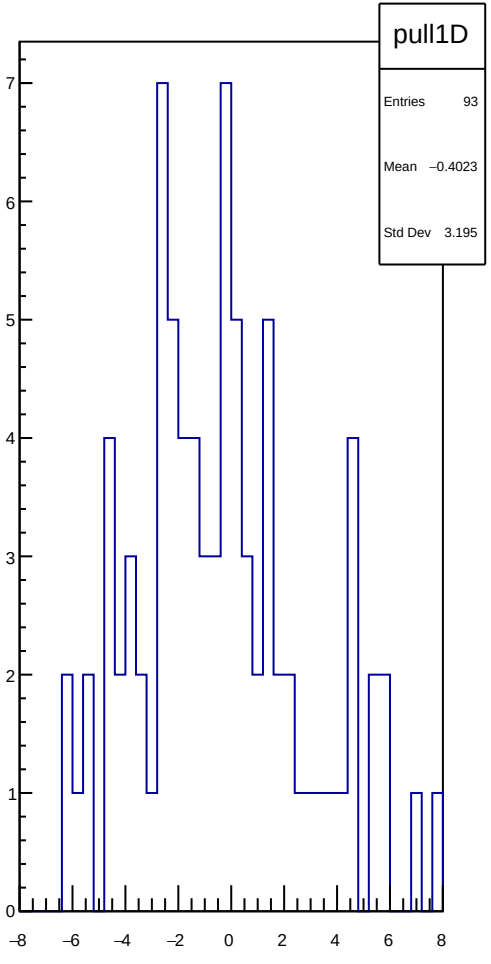

pull1D
Entries 93
Mean 0.2257
Std Dev 2.186

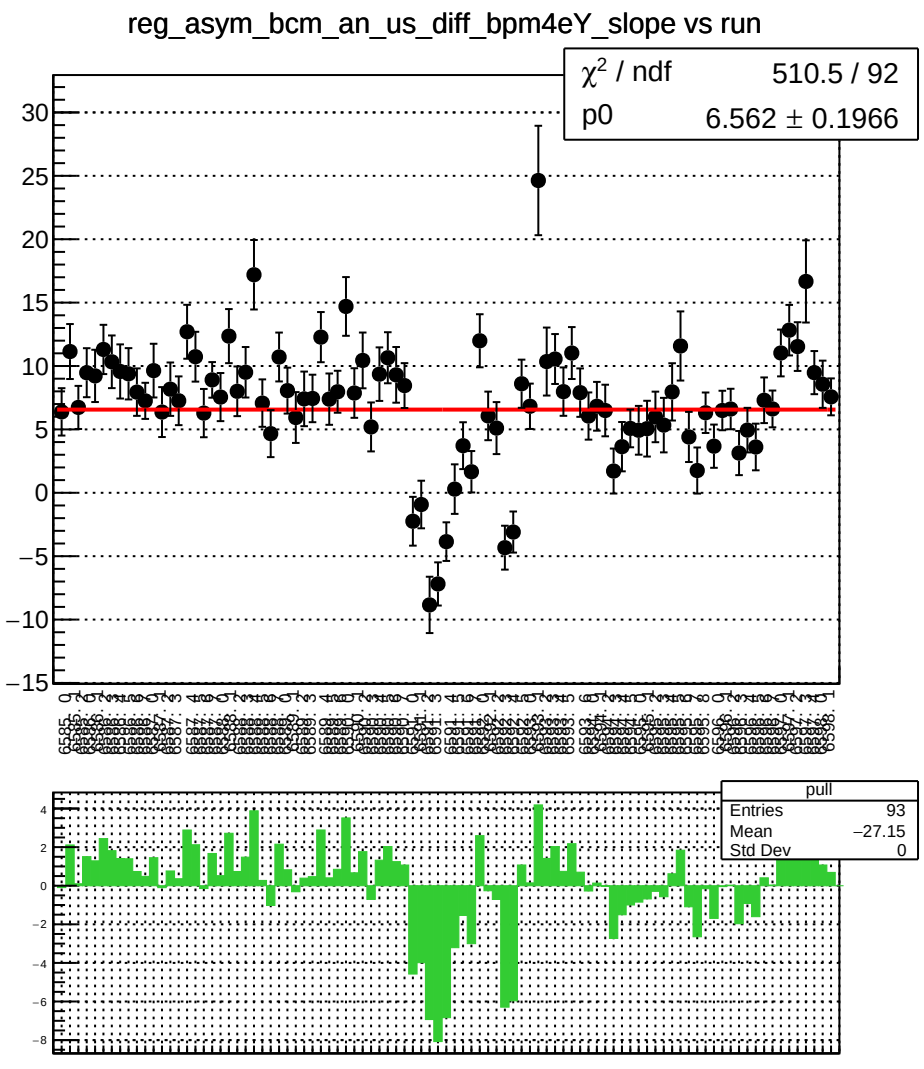

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 168 / 92
p0 −0.3374 ± 0.009354
pull
Entries 93
Mean −46.6
Std Dev 0
pull1D
Entries 93
Mean −0.1542
Std Dev 1.335

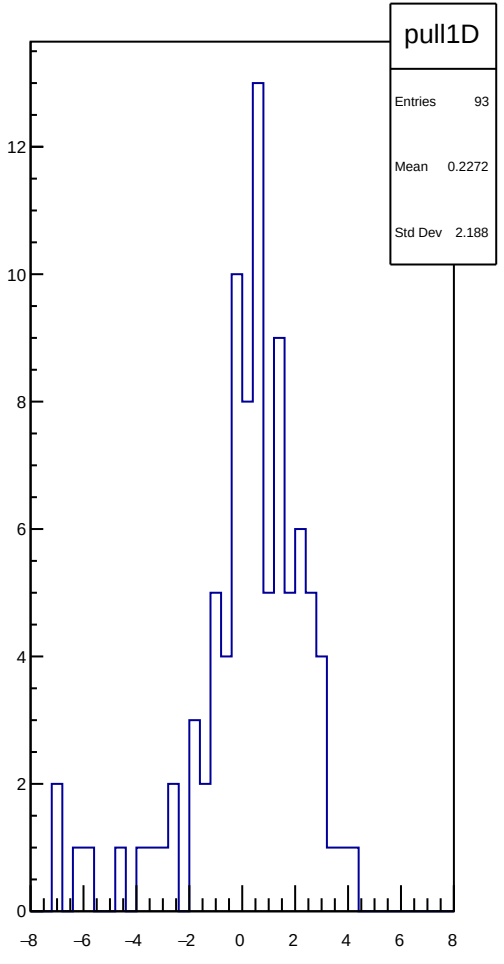

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 2727 / 92
p0 44.03 ± 0.2253
pull
Entries 93
Mean 0.2983
Std Dev 0
pull1D
Entries 93
Mean 0.2992
Std Dev 3.358

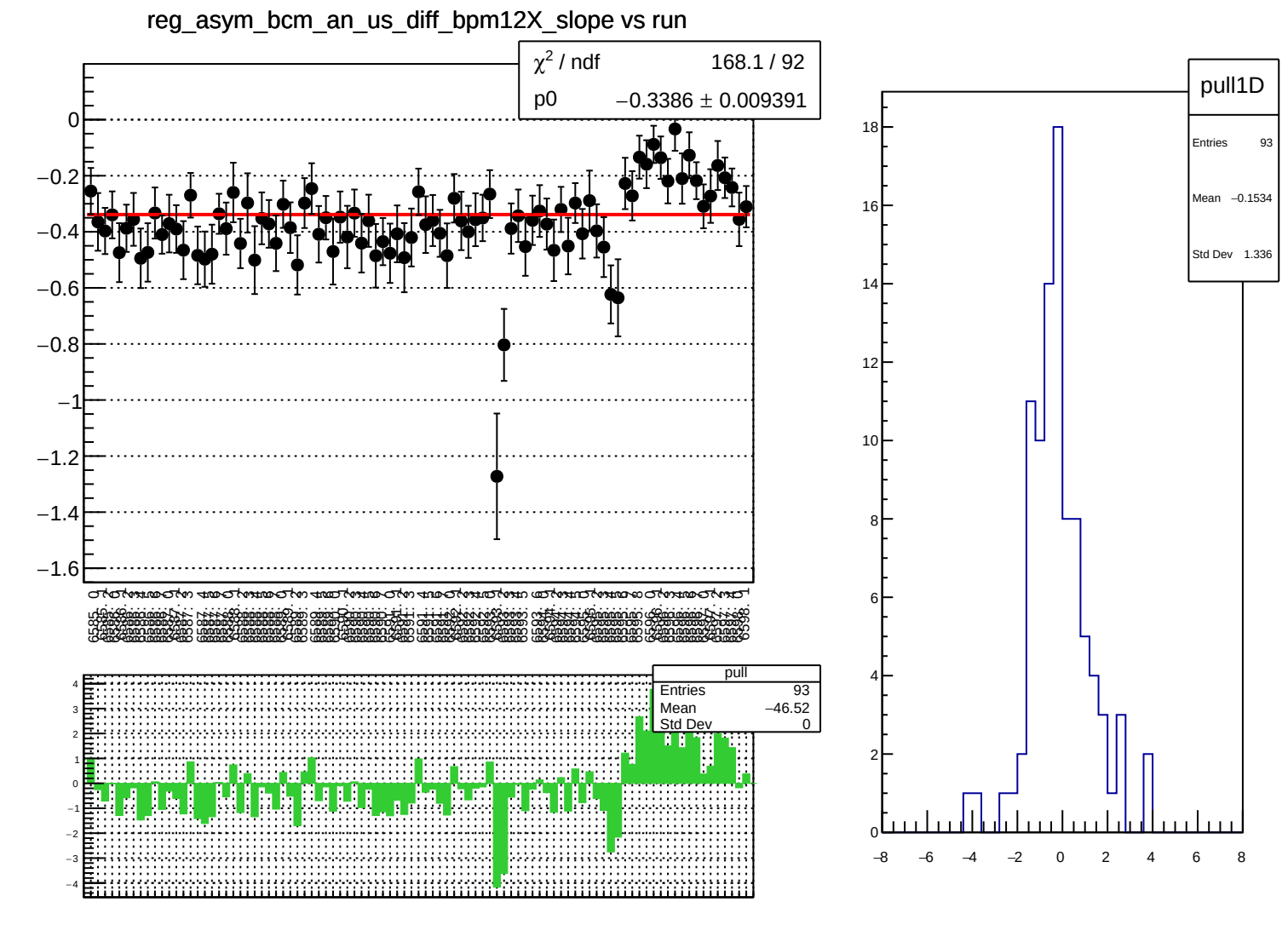

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 487.2 / 92
p0 −6.556 ± 0.166
pull
Entries 93
Mean −11.35
Std Dev 19.17
pull1D
Entries 93
Mean −0.1526
Std Dev 2.284

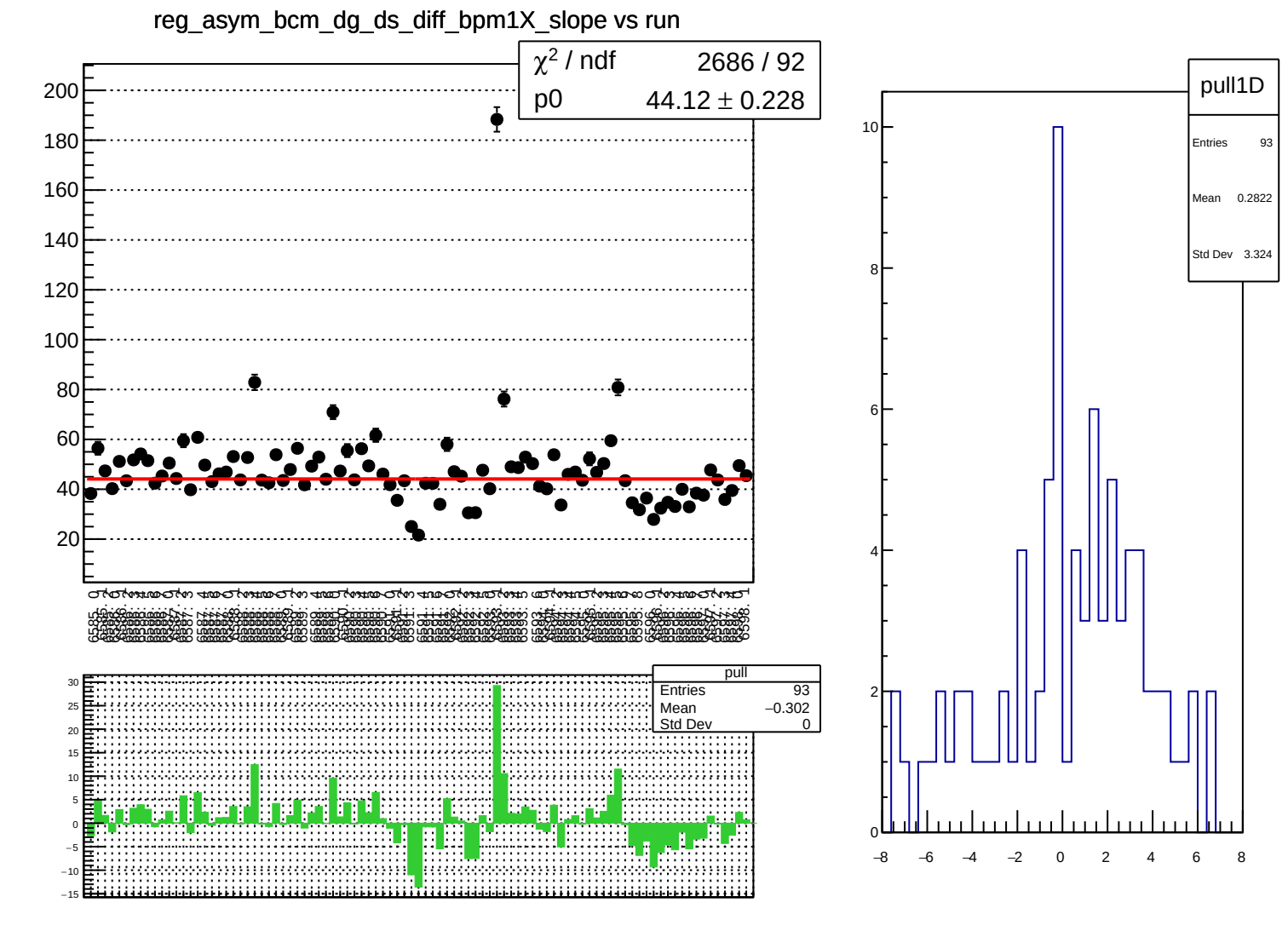

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2664 / 92
p0 −44.41 ± 0.2311
pull
Entries 93
Mean 0.6094
Std Dev 0

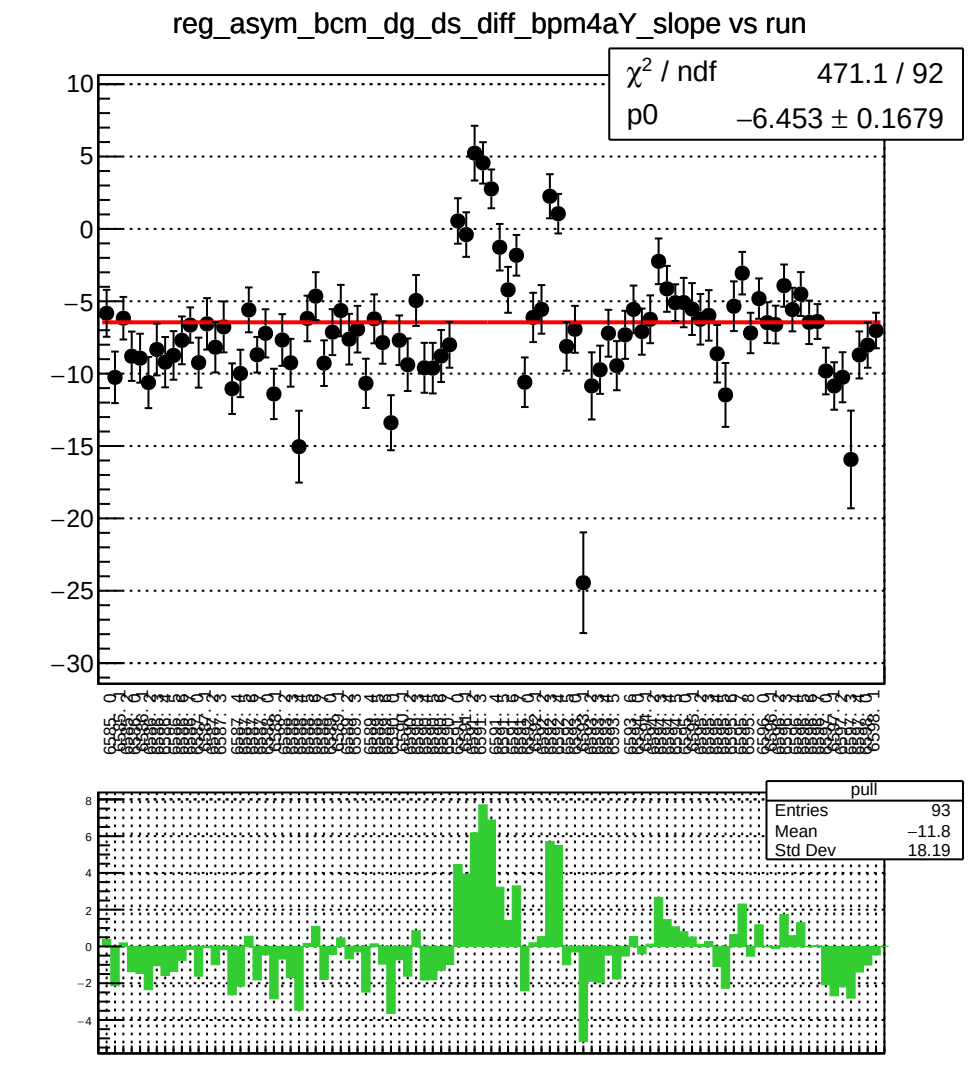

pull1D
Entries 93
Mean −0.4023
Std Dev 3.195

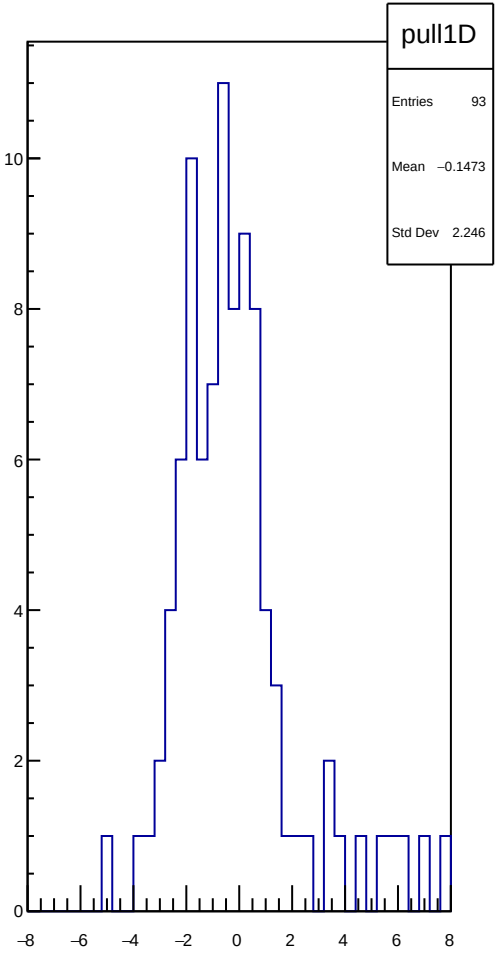

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 510.5 / 92
p0 6.562 ± 0.1966
pull
Entries 93
Mean −27.15
Std Dev 0

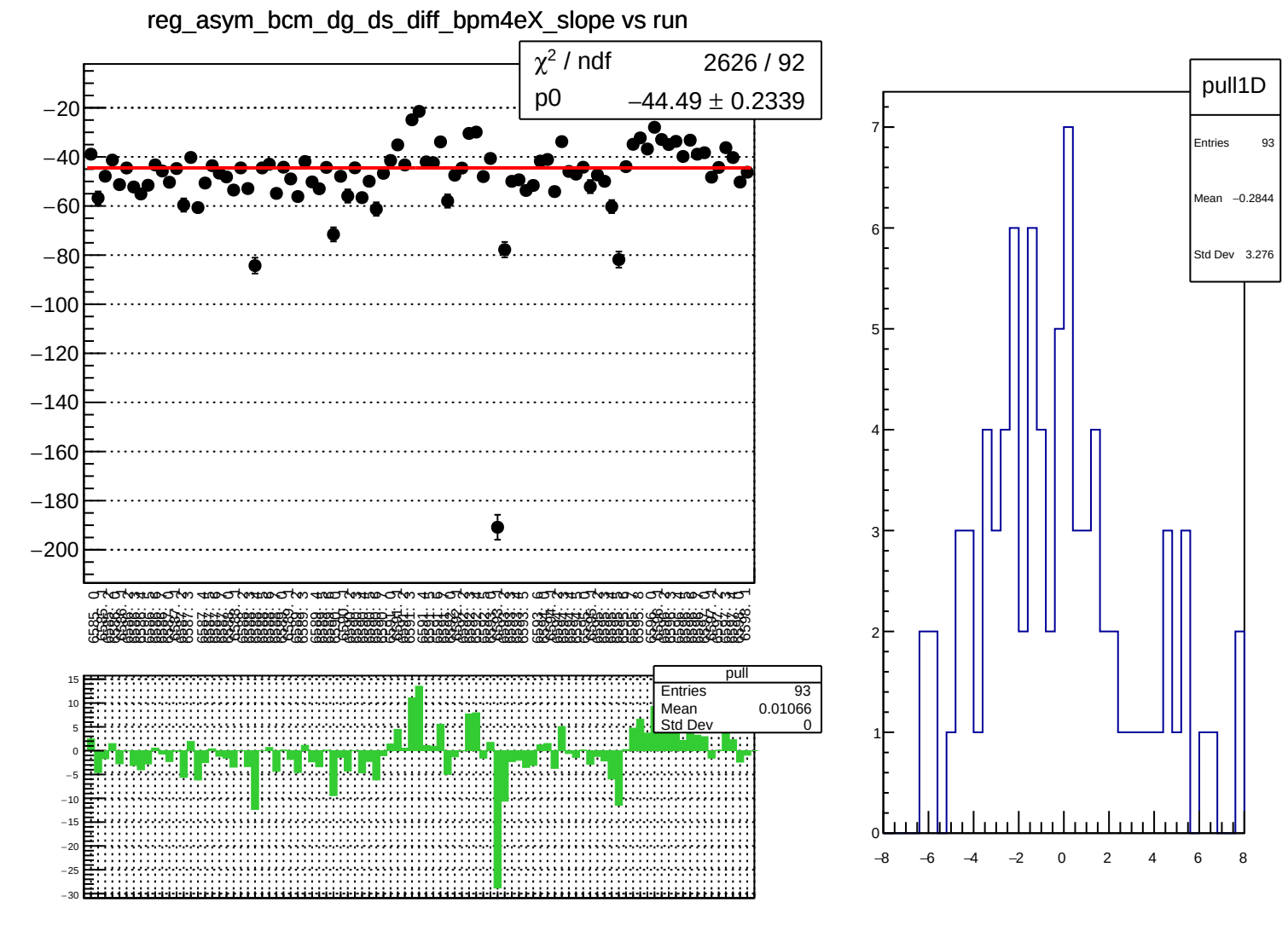

pull1D
Entries 93
Mean 0.2272
Std Dev 2.188

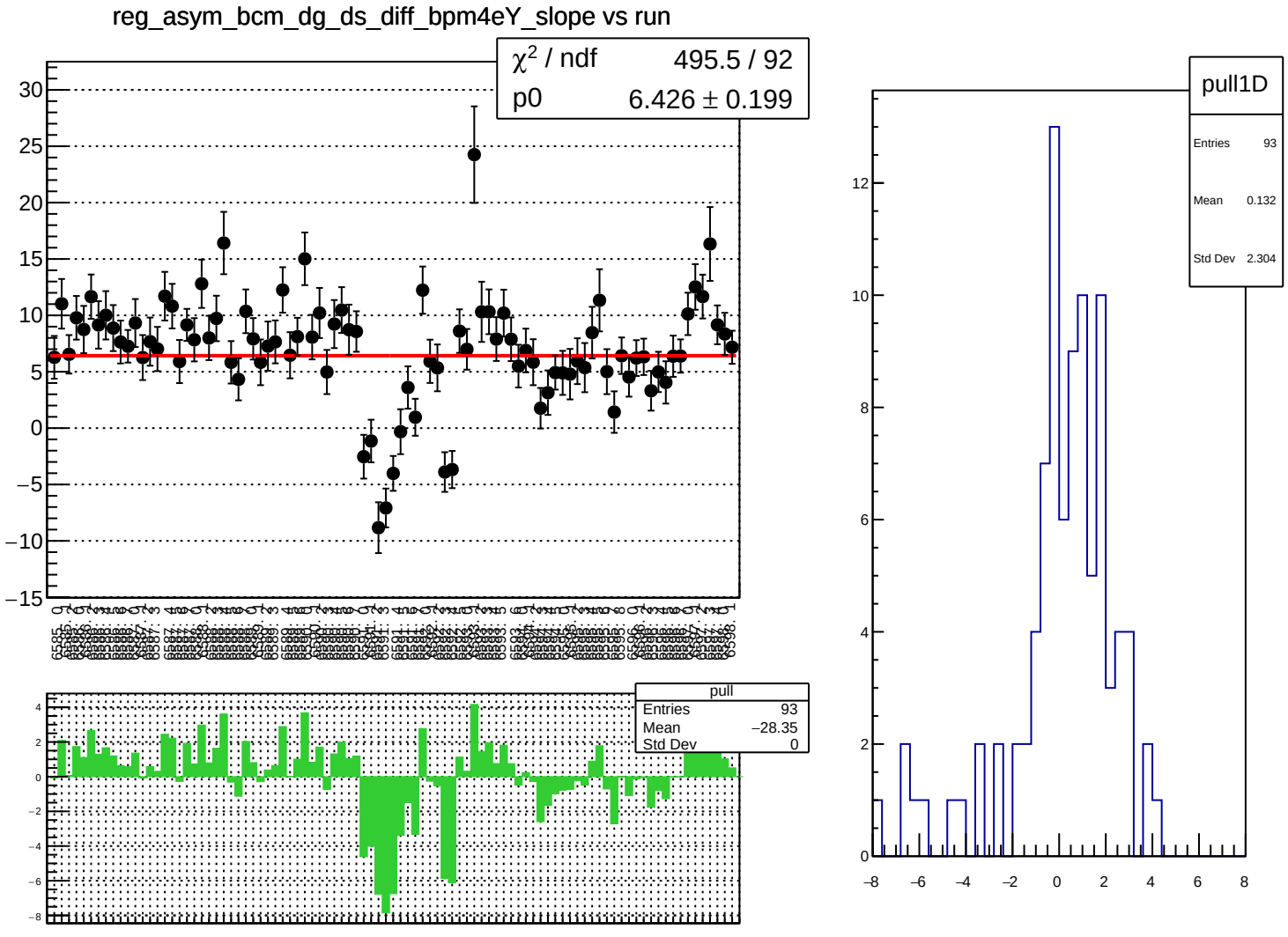

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 168.1 / 92
p0 −0.3386 ± 0.009391
pull
Entries 93
Mean −46.52
Std Dev 0
pull1D
Entries 93
Mean −0.1534
Std Dev 1.336

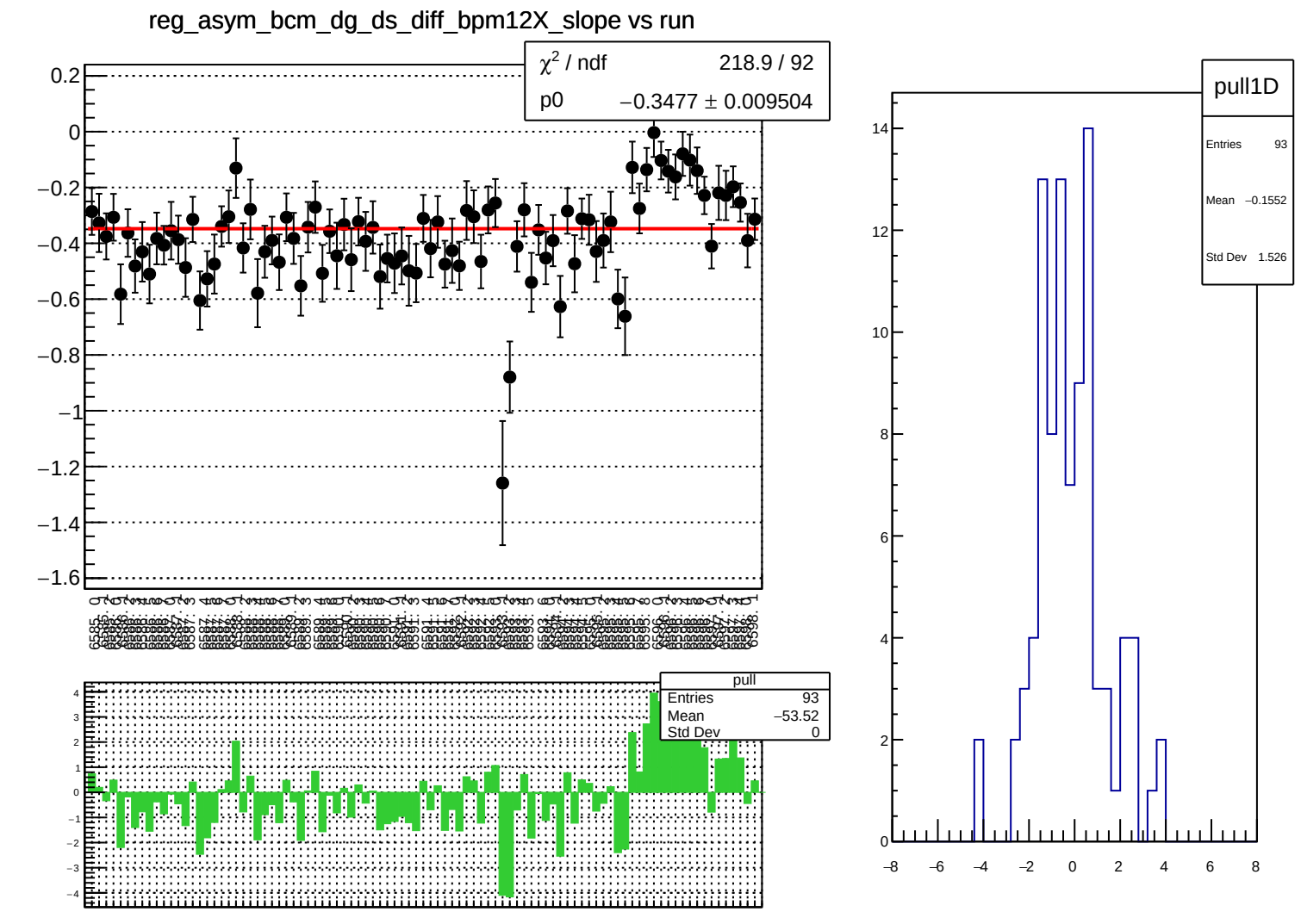

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 2686 / 92
p0 44.12 ± 0.228
pull
Entries 93
Mean −0.302
Std Dev 0
pull1D
Entries 93
Mean 0.2822
Std Dev 3.324

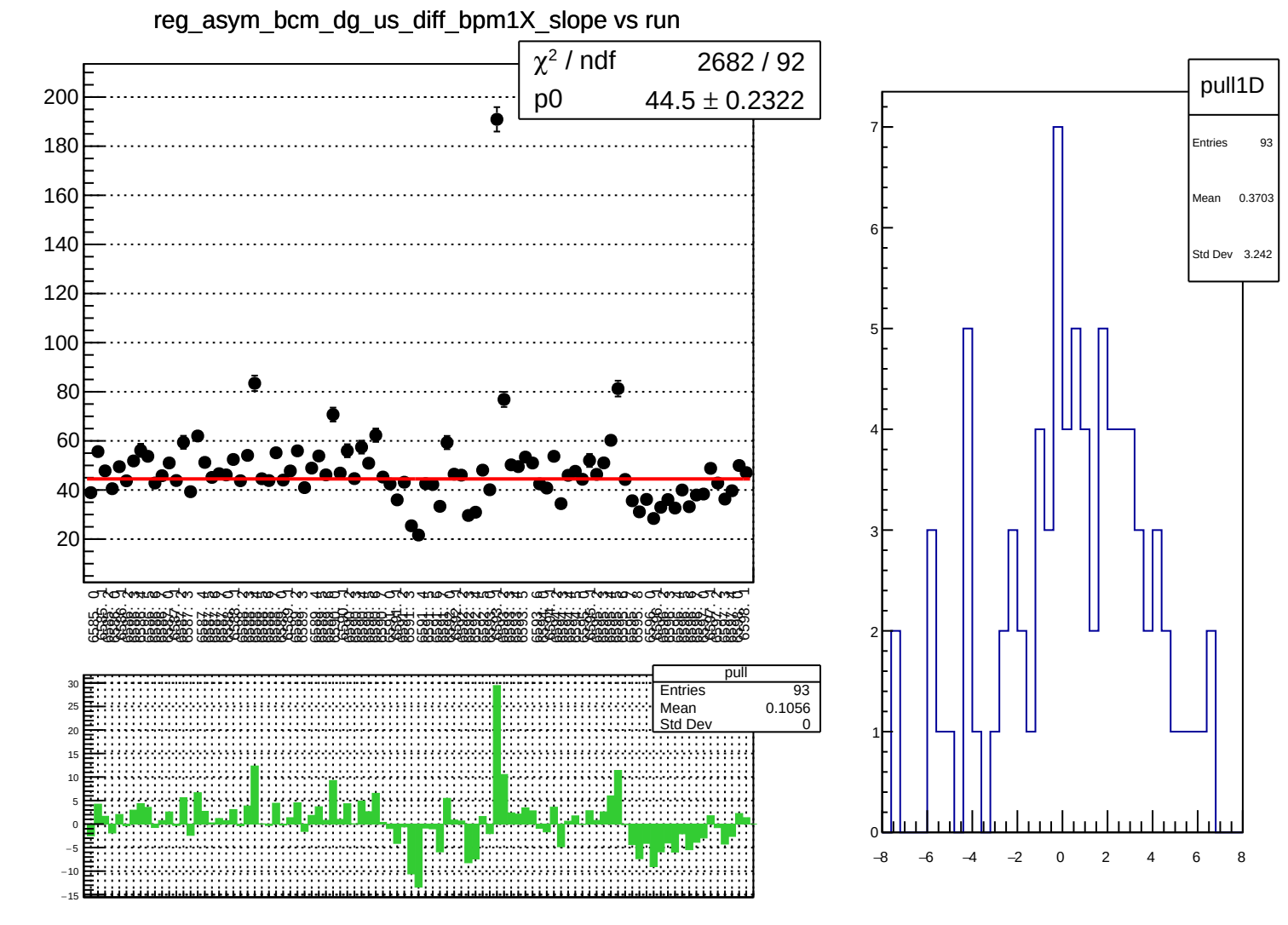

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 471.1 / 92
p0 −6.453 ± 0.1679
pull
Entries 93
Mean −11.8
Std Dev 18.19

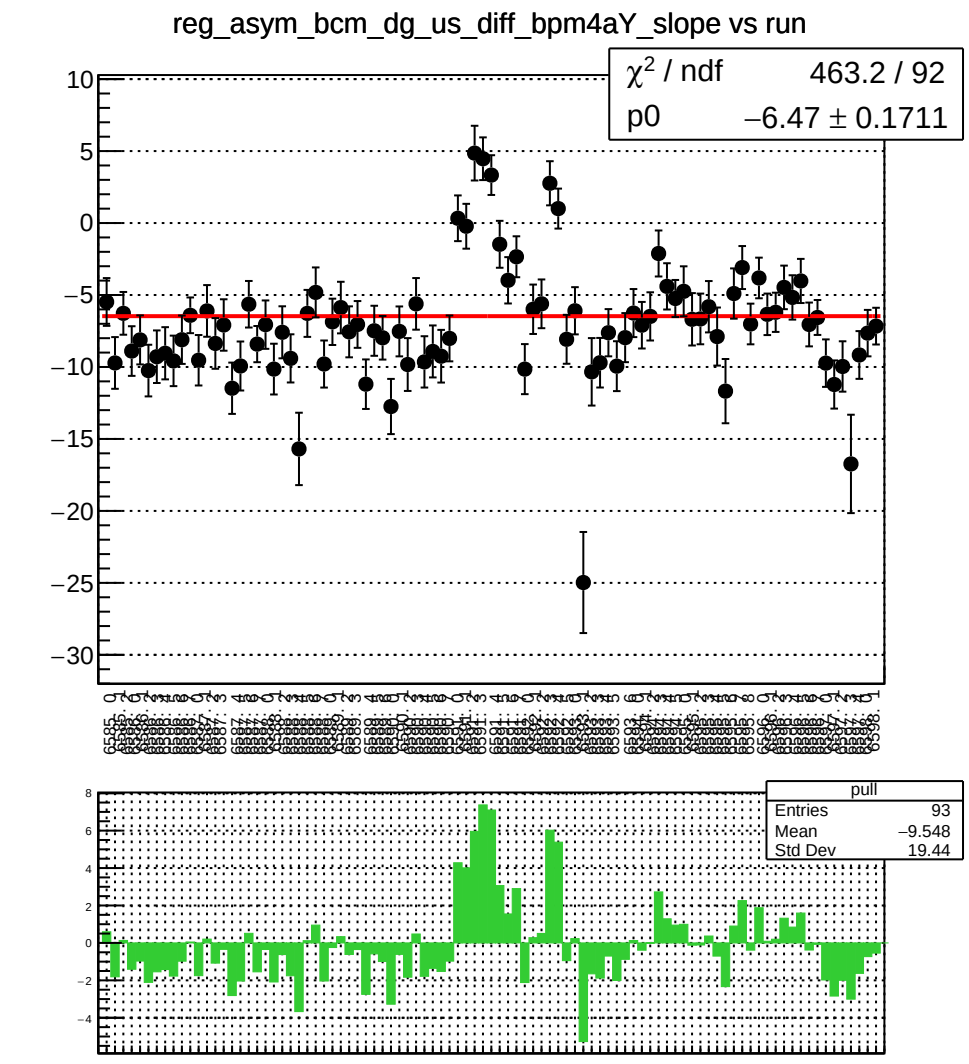

pull1D
Entries 93
Mean −0.1473
Std Dev 2.246

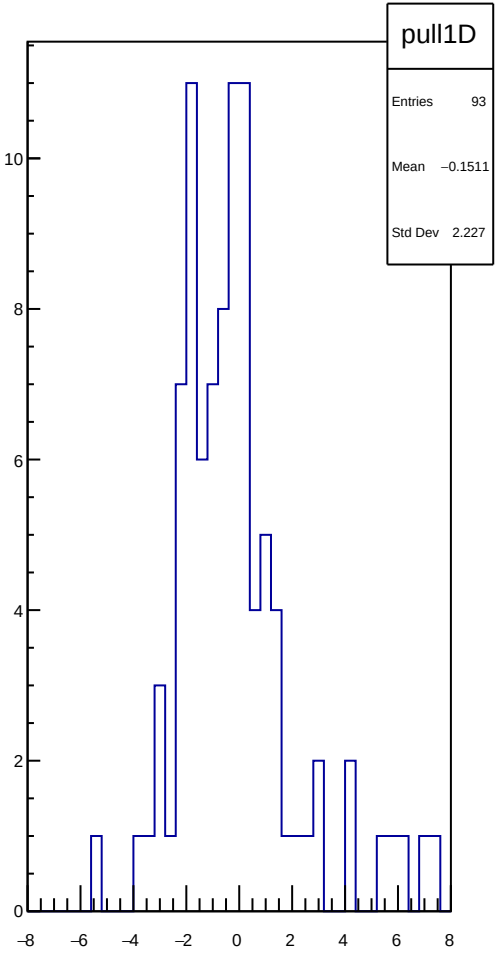

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 2626 / 92
p0 −44.49 ± 0.2339
pull
Entries 93
Mean 0.01066
Std Dev 0
pull1D
Entries 93
Mean −0.2844
Std Dev 3.276

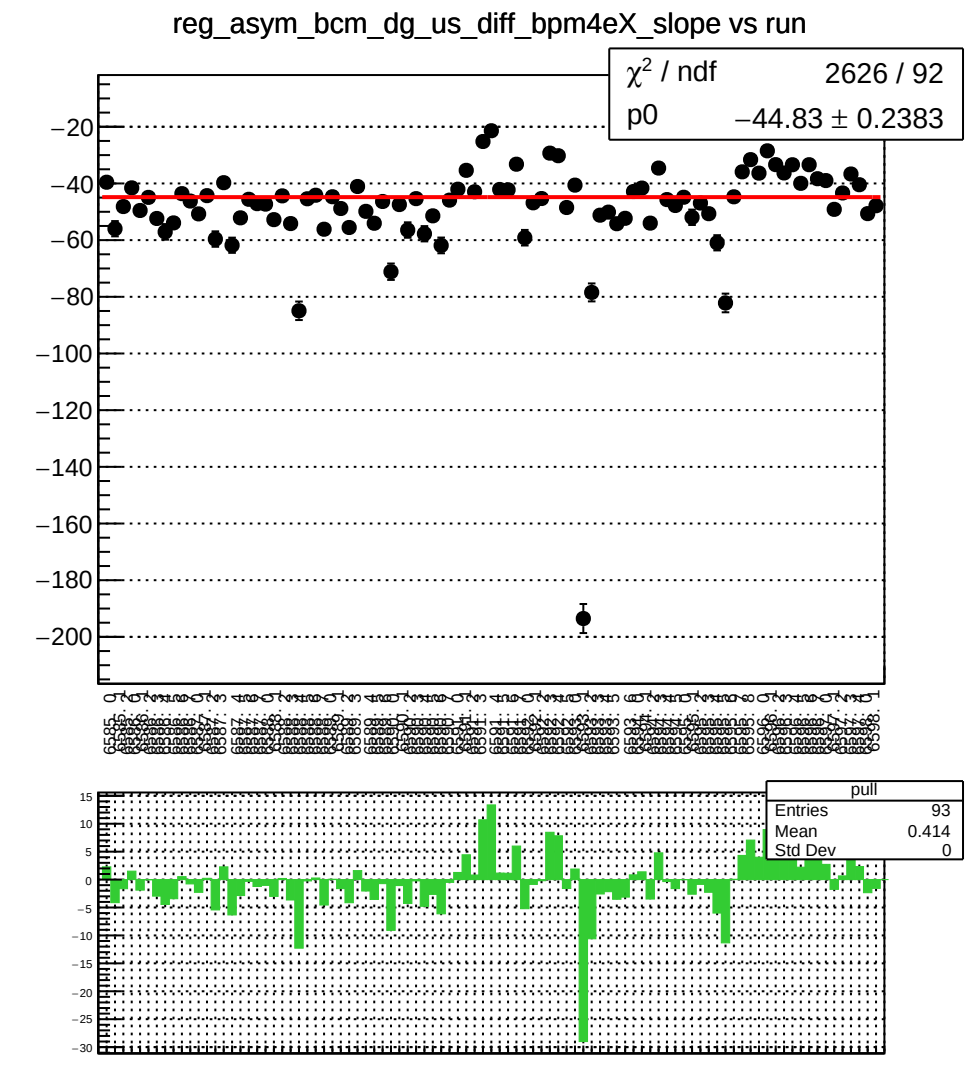

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 495.5 / 92
p0 6.426 ± 0.199
pull
Entries 93
Mean −28.35
Std Dev 0
pull1D
Entries 93
Mean 0.132
Std Dev 2.304

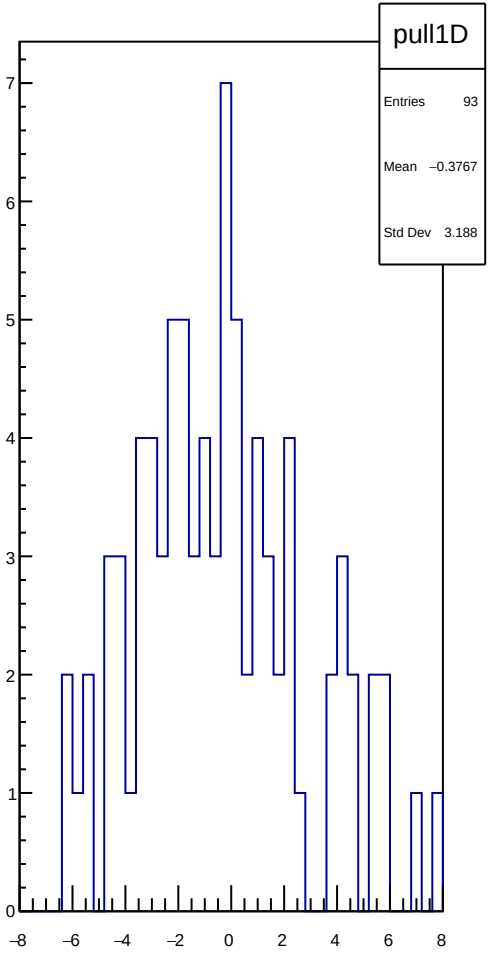

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 218.9 / 92
p0 −0.3477 ± 0.009504
pull
Entries 93
Mean −53.52
Std Dev 0
pull1D
Entries 93
Mean −0.1552
Std Dev 1.526

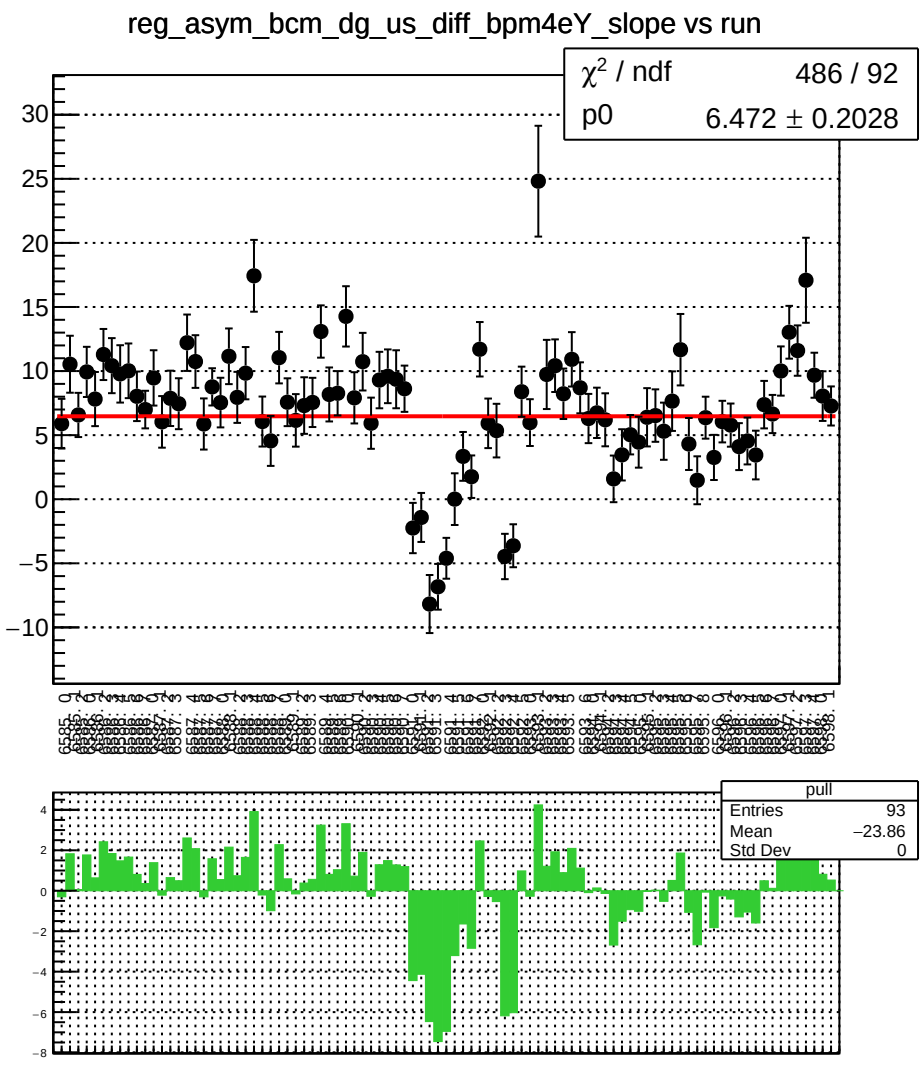

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 2682 / 92
p0 44.5 ± 0.2322
pull
Entries 93
Mean 0.1056
Std Dev 0
pull1D
Entries 93
Mean 0.3703
Std Dev 3.242

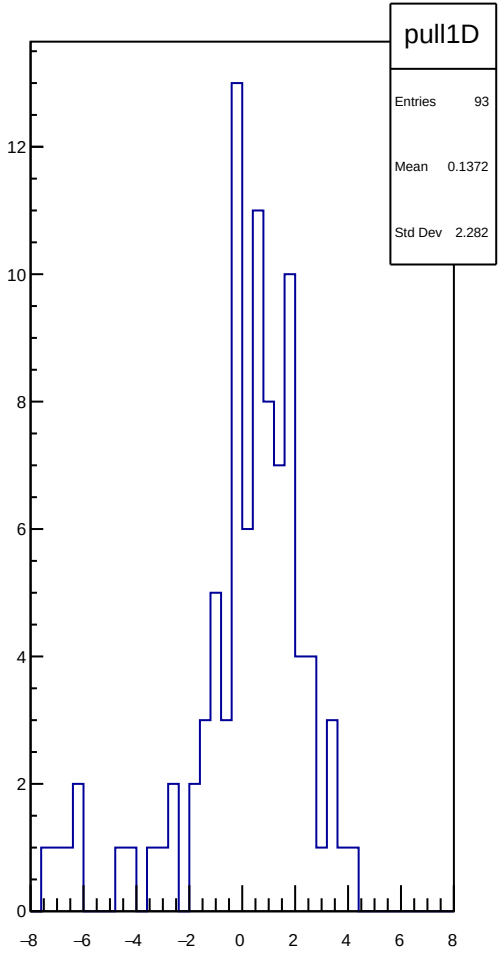

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 463.2 / 92
p0 −6.47 ± 0.1711
pull
Entries 93
Mean −9.548
Std Dev 19.44

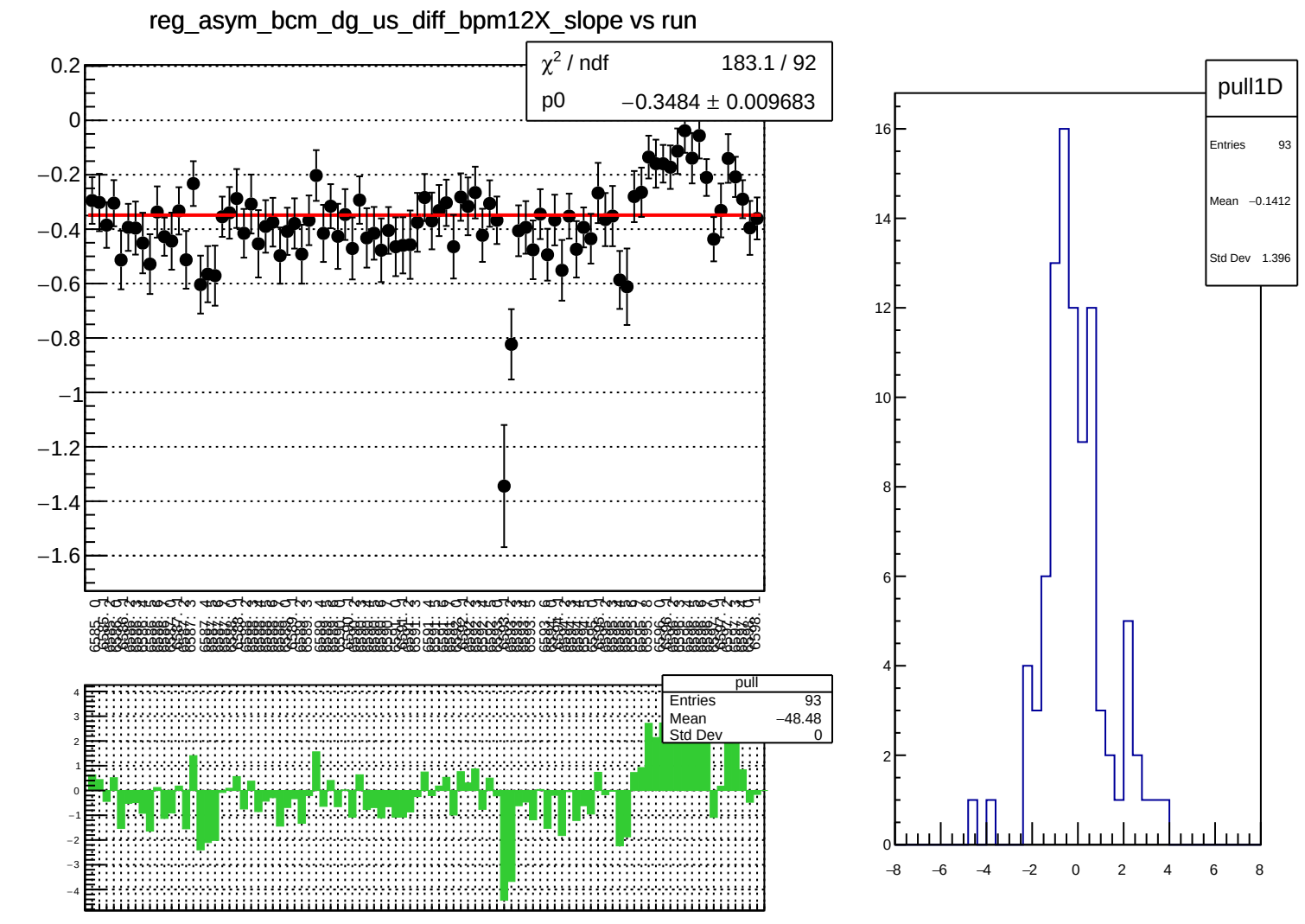

pull1D
Entries 93
Mean −0.1511
Std Dev 2.227

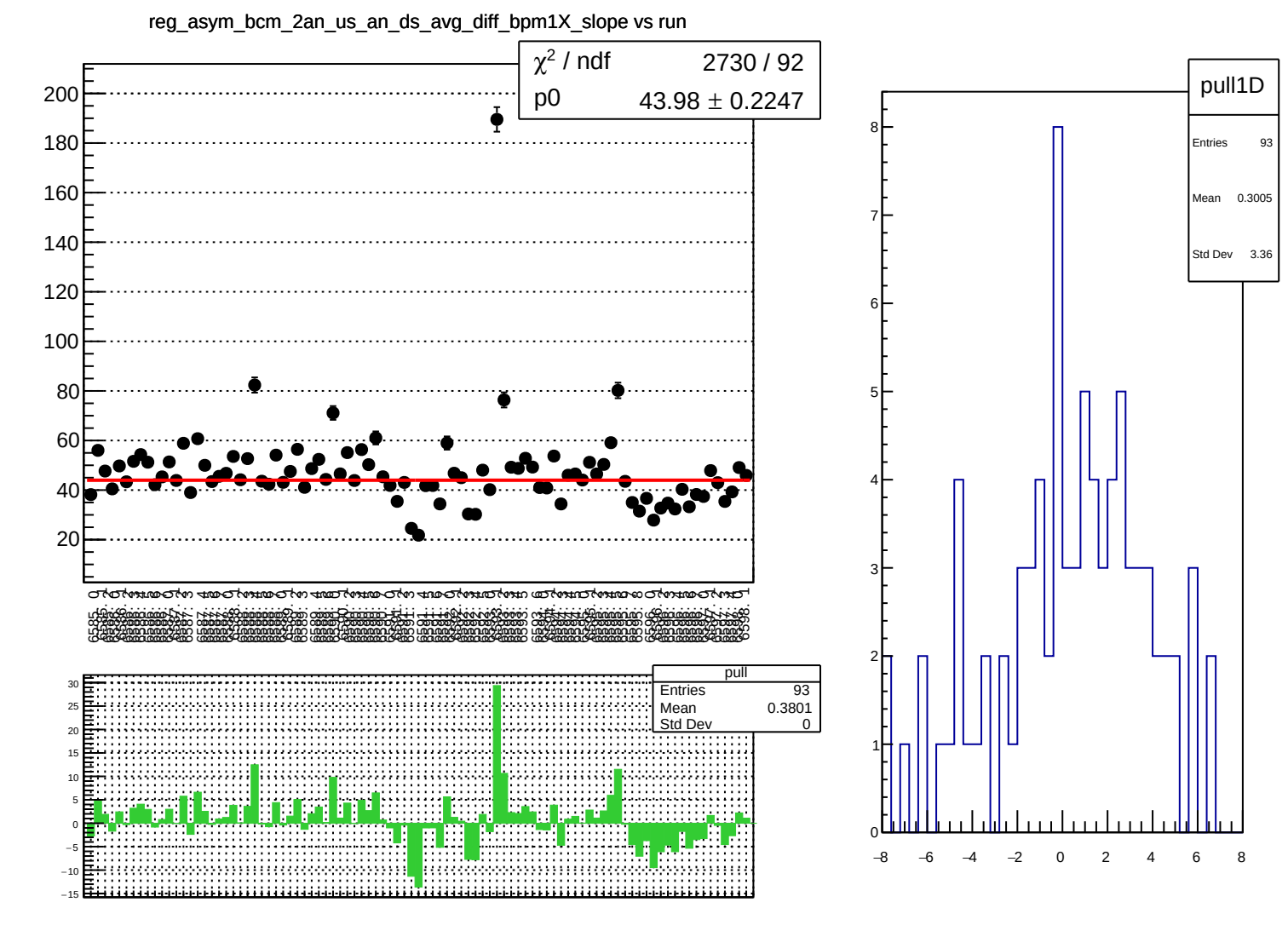

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 2626 / 92
p0 −44.83 ± 0.2383
pull
Entries 93
Mean 0.414
Std Dev 0

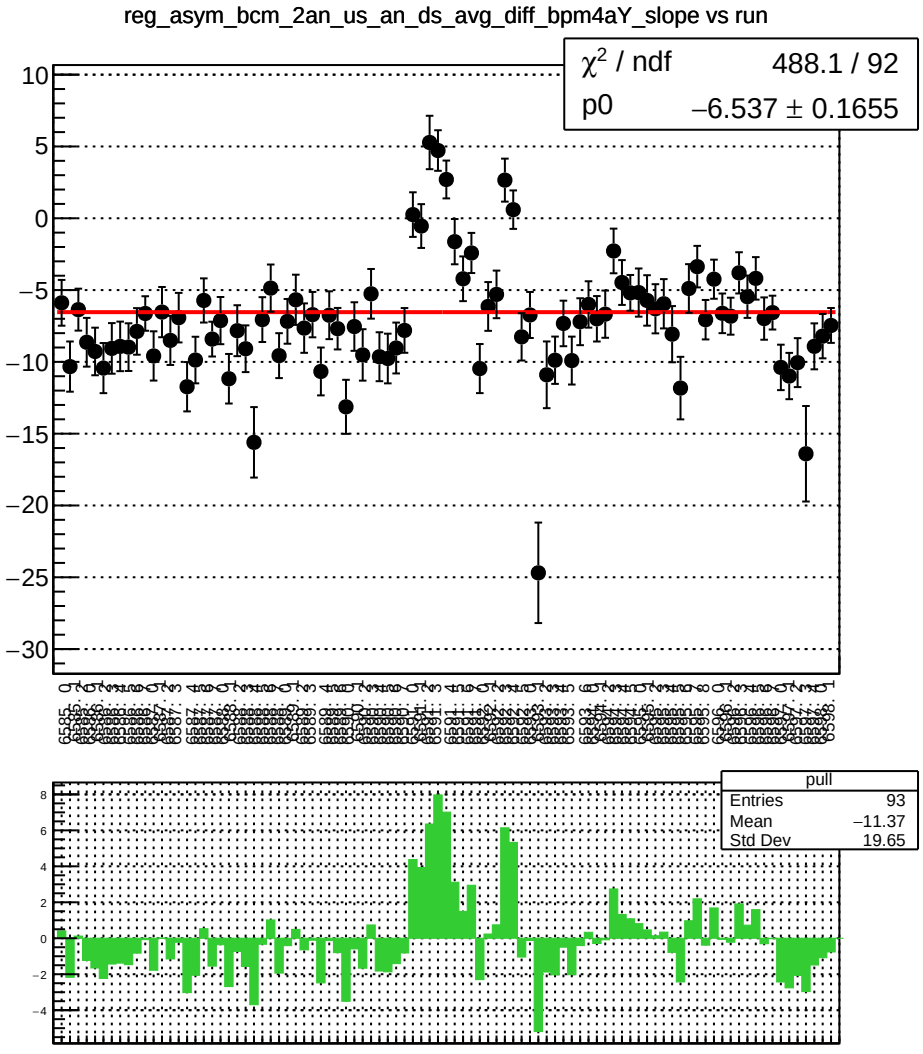

pull1D
Entries 93
Mean −0.3767
Std Dev 3.188

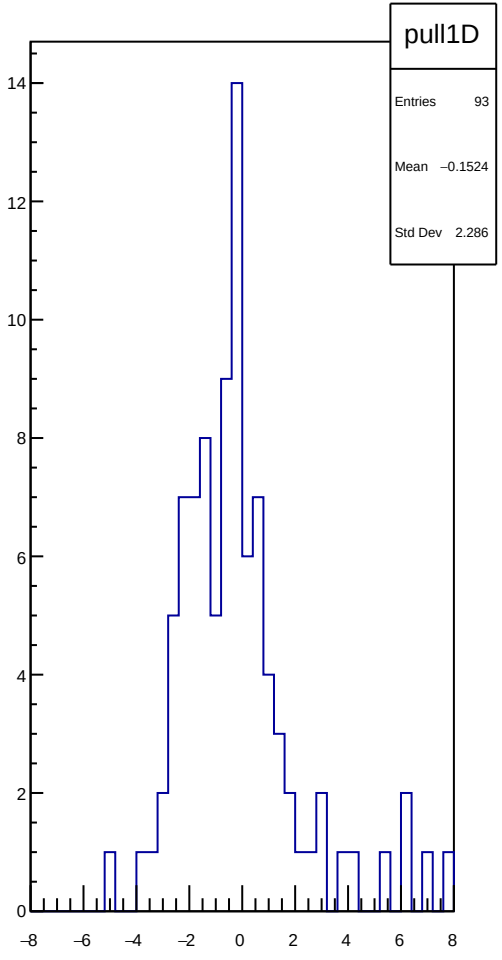

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 486 / 92
p0 6.472 ± 0.2028
pull
Entries 93
Mean −23.86
Std Dev 0

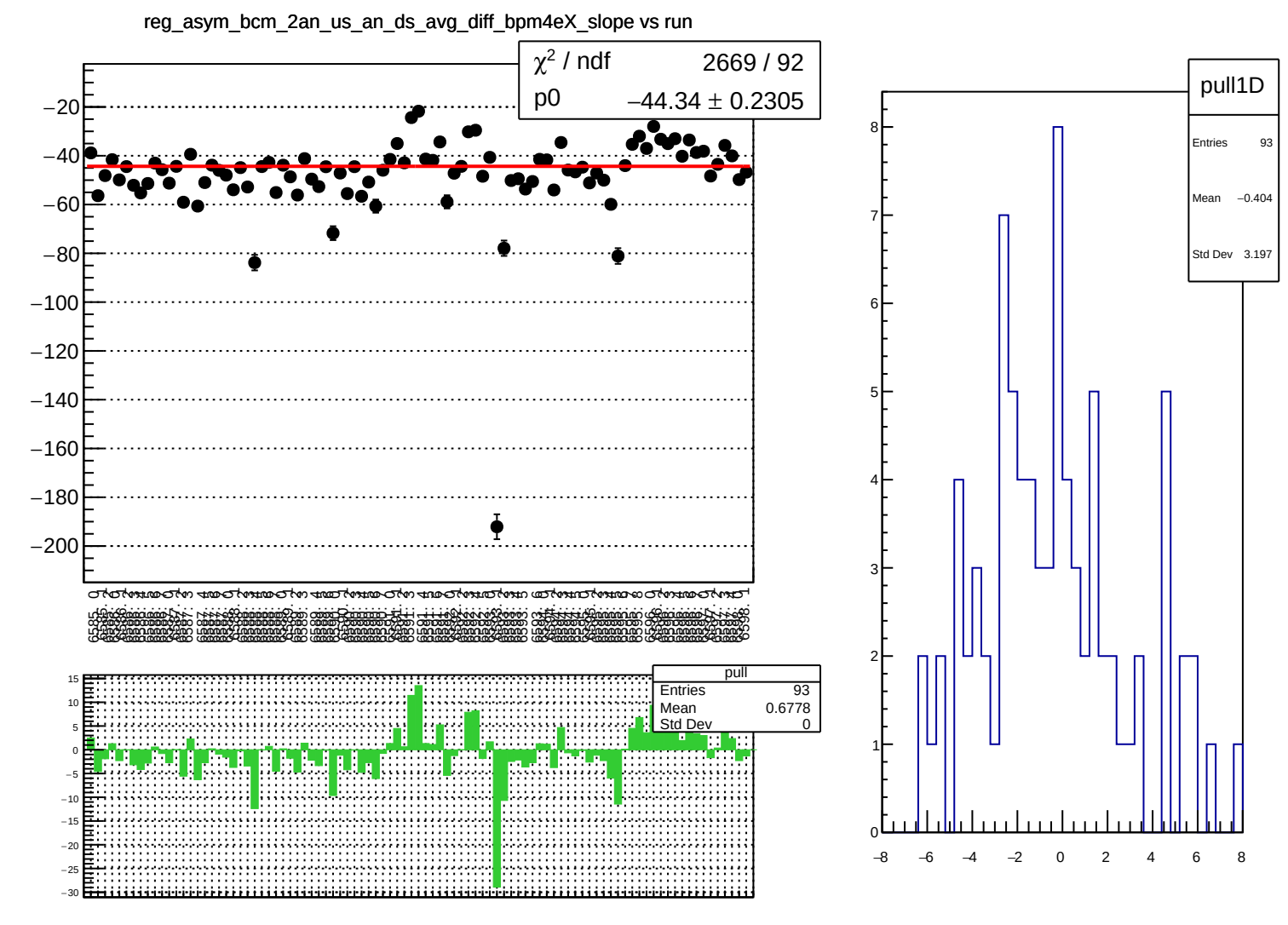

pull1D
Entries 93
Mean 0.1372
Std Dev 2.282

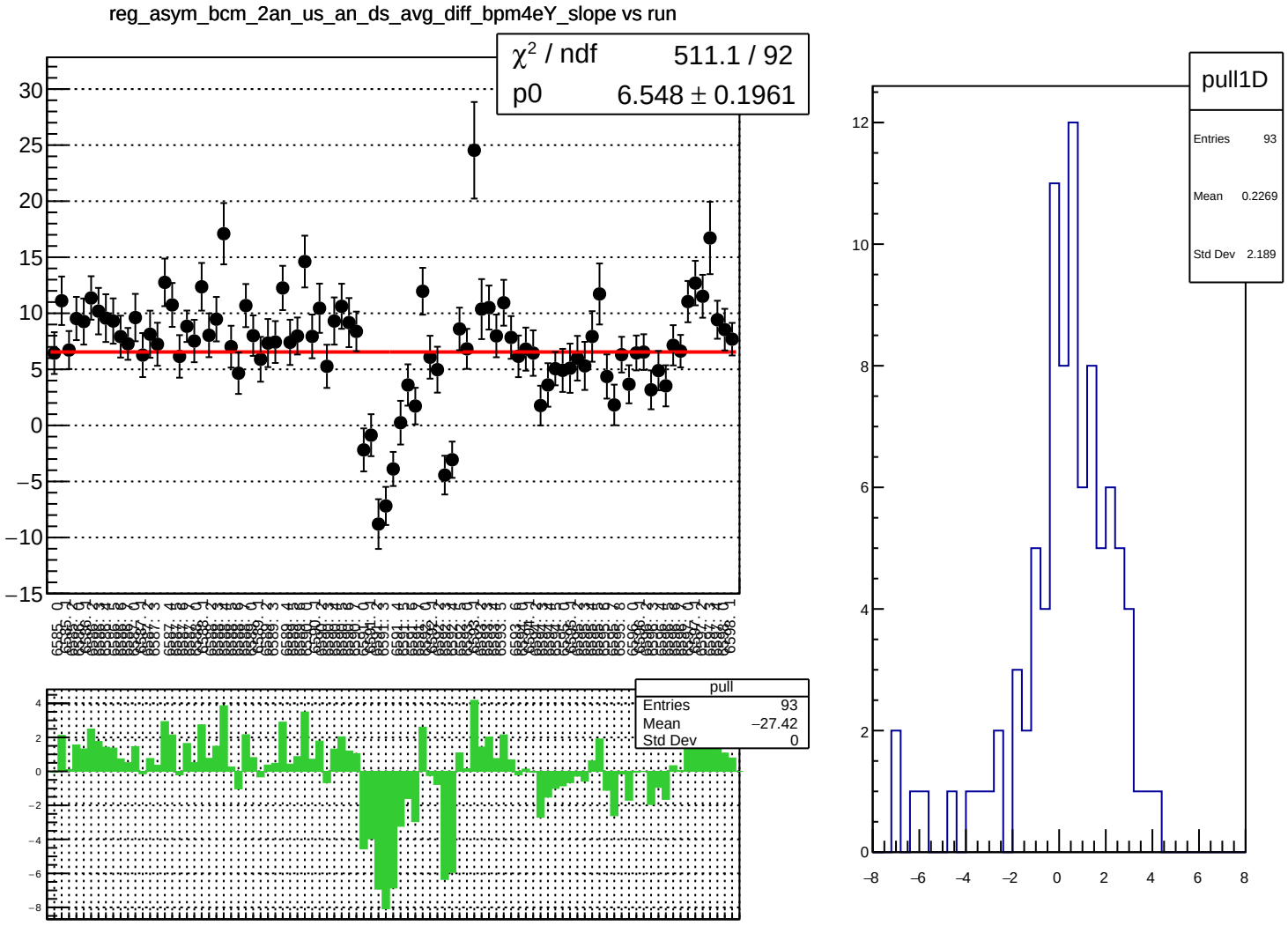

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 183.1 / 92
p0 −0.3484 ± 0.009683
pull
Entries 93
Mean −48.48
Std Dev 0
pull1D
Entries 93
Mean −0.1412
Std Dev 1.396

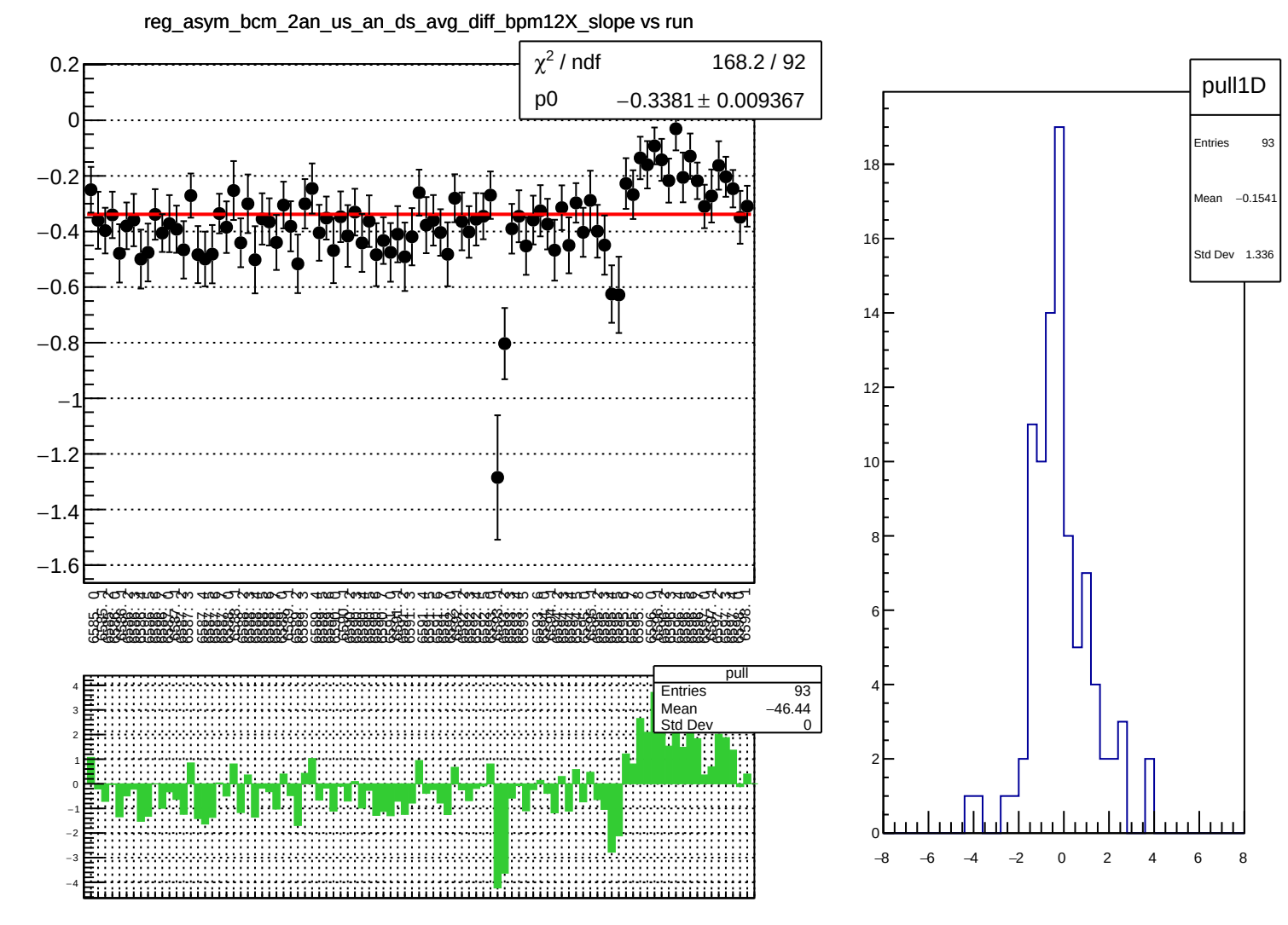

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 2730 / 92
p0 43.98 ± 0.2247
pull
Entries 93
Mean 0.3801
Std Dev 0
pull1D
Entries 93
Mean 0.3005
Std Dev 3.36

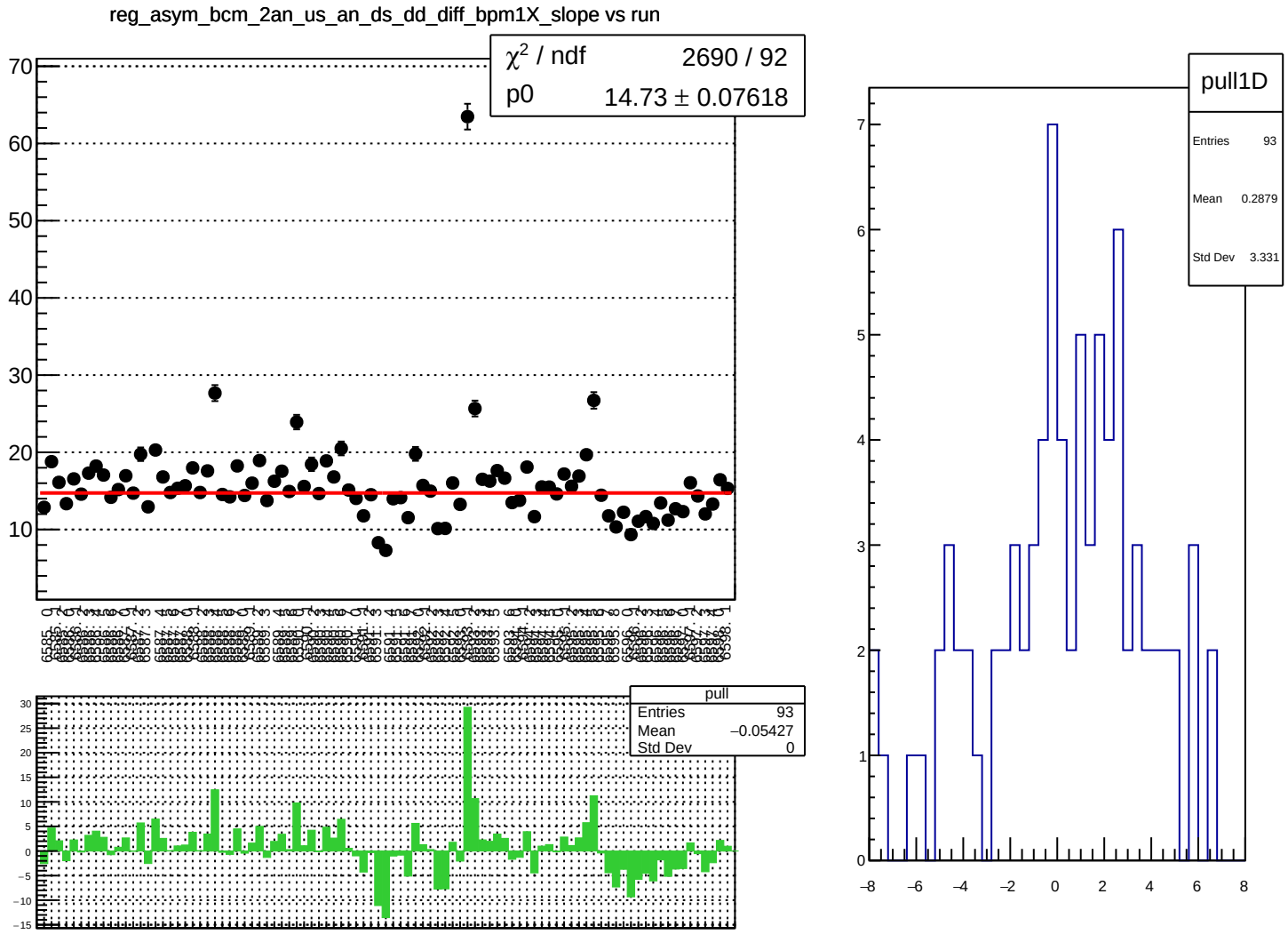

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 488.1 / 92
p0 −6.537 ± 0.1655
pull
Entries 93
Mean −11.37
Std Dev 19.65

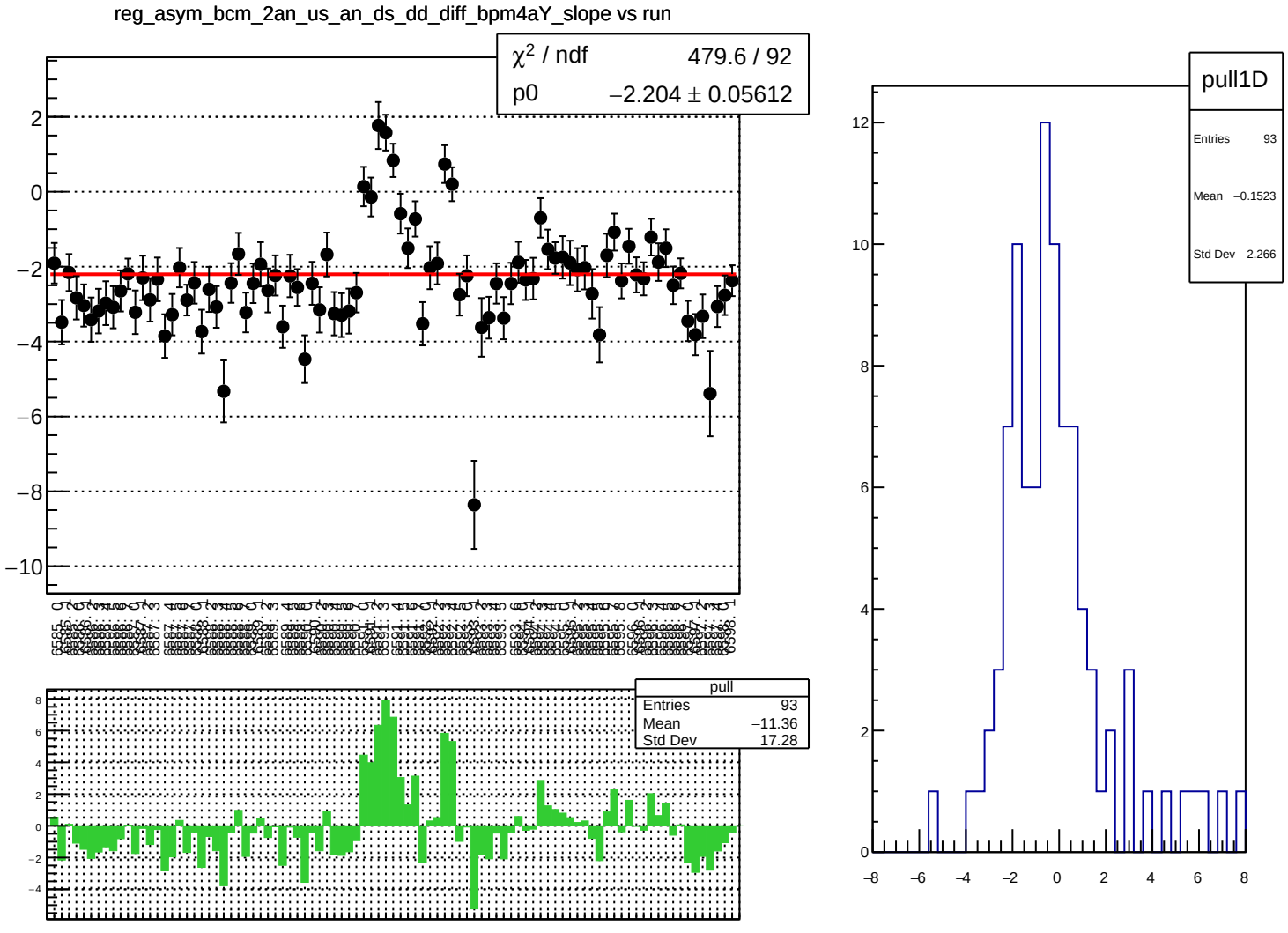

pull1D
Entries 93
Mean −0.1524
Std Dev 2.286

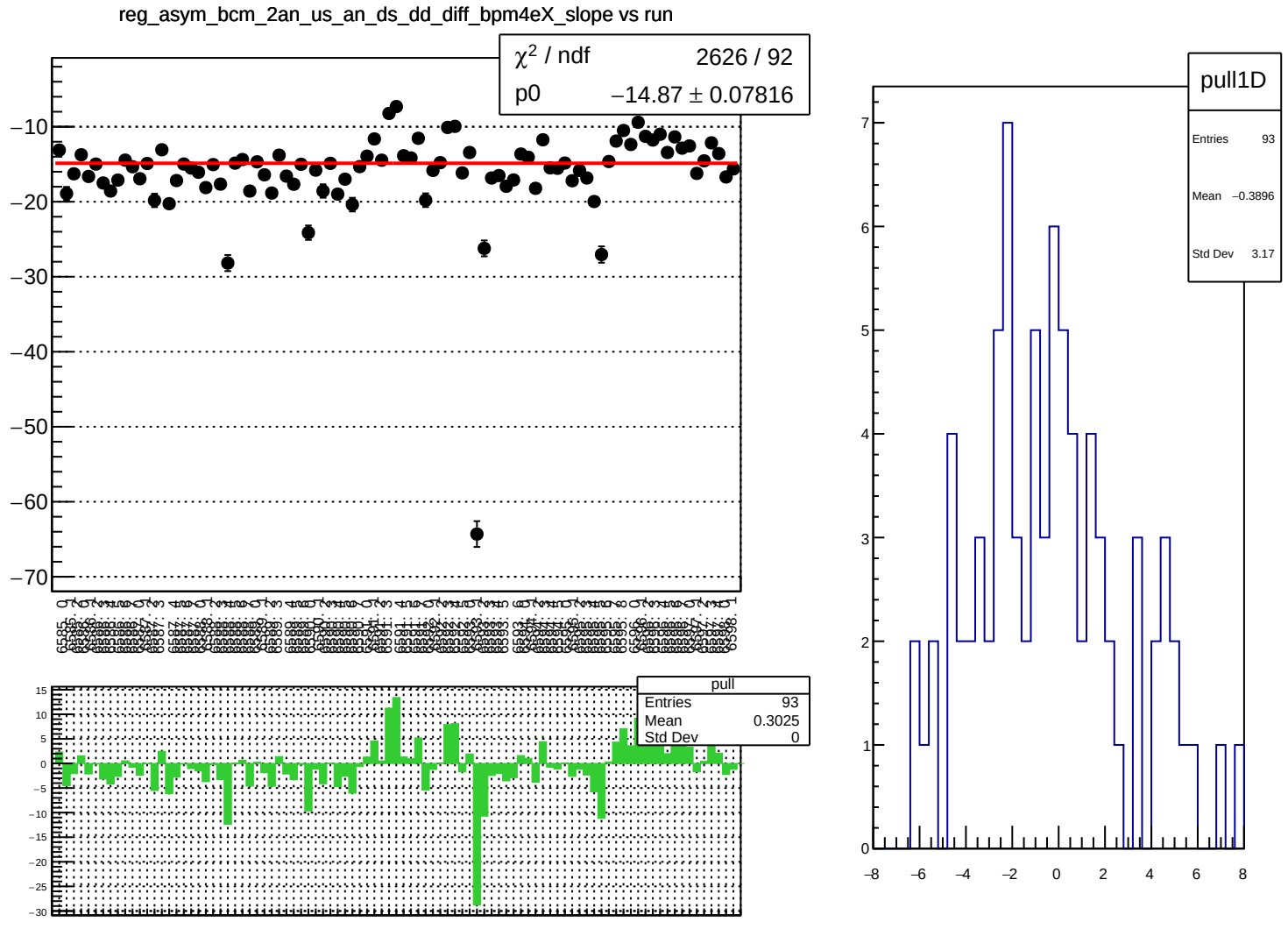

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 2669 / 92
p0 −44.34 ± 0.2305
pull
Entries 93
Mean 0.6778
Std Dev 0
pull1D
Entries 93
Mean −0.404
Std Dev 3.197

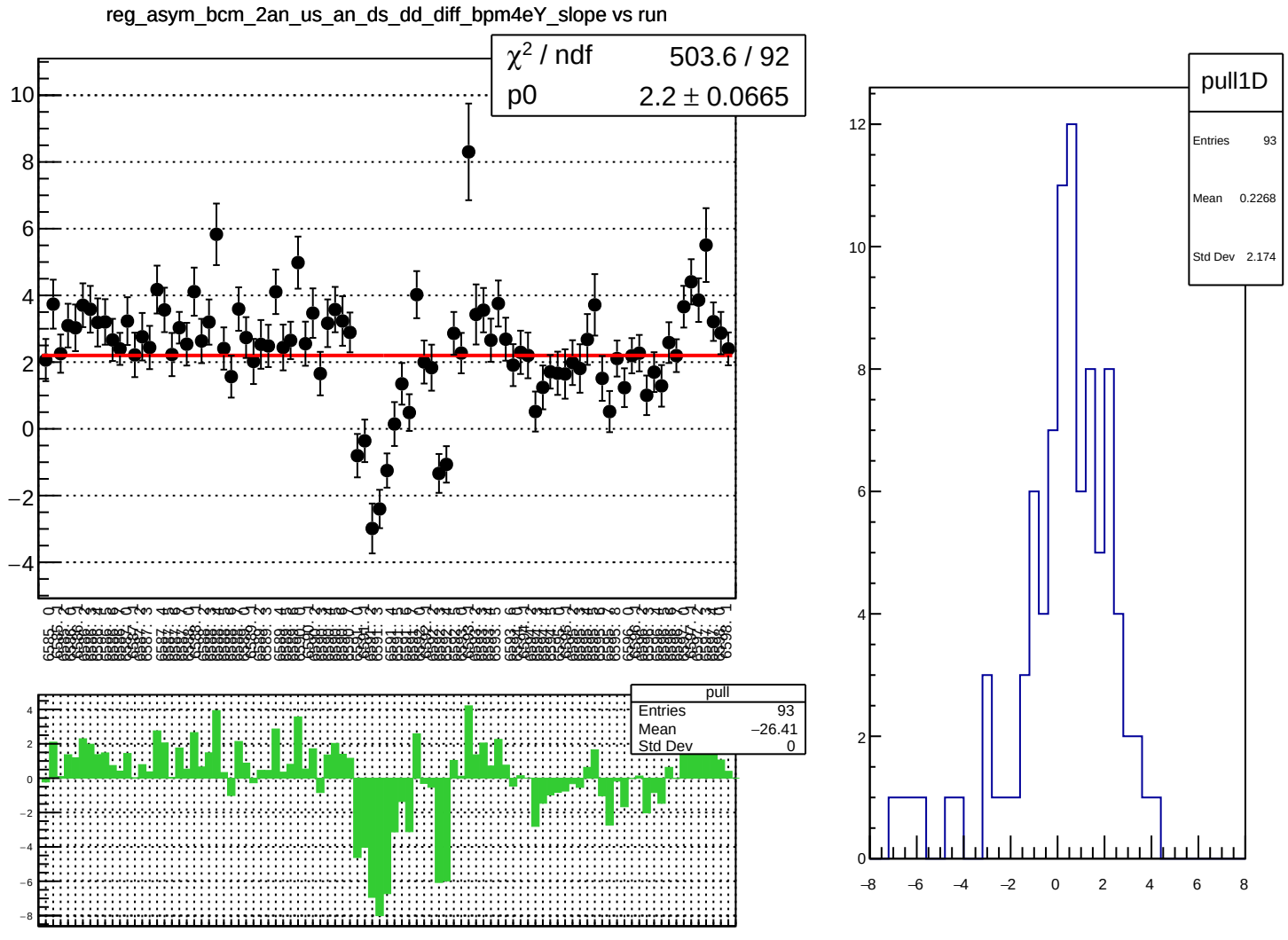

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 511.1 / 92
p0 6.548 ± 0.1961
pull
Entries 93
Mean −27.42
Std Dev 0
pull1D
Entries 93
Mean 0.2269
Std Dev 2.189

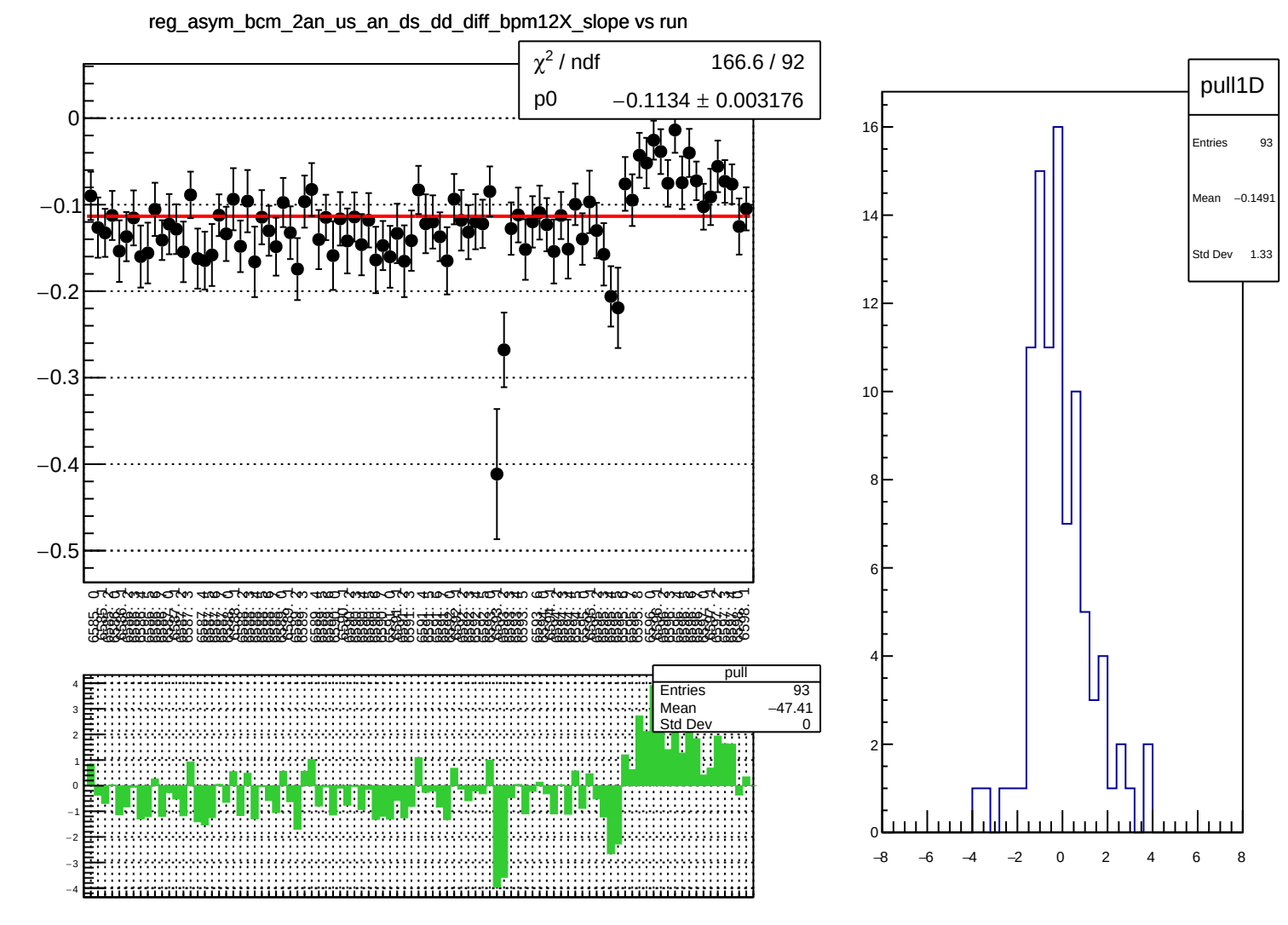

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 168.2 / 92
p0 −0.3381 ± 0.009367
pull
Entries 93
Mean −46.44
Std Dev 0
pull1D
Entries 93
Mean −0.1541
Std Dev 1.336

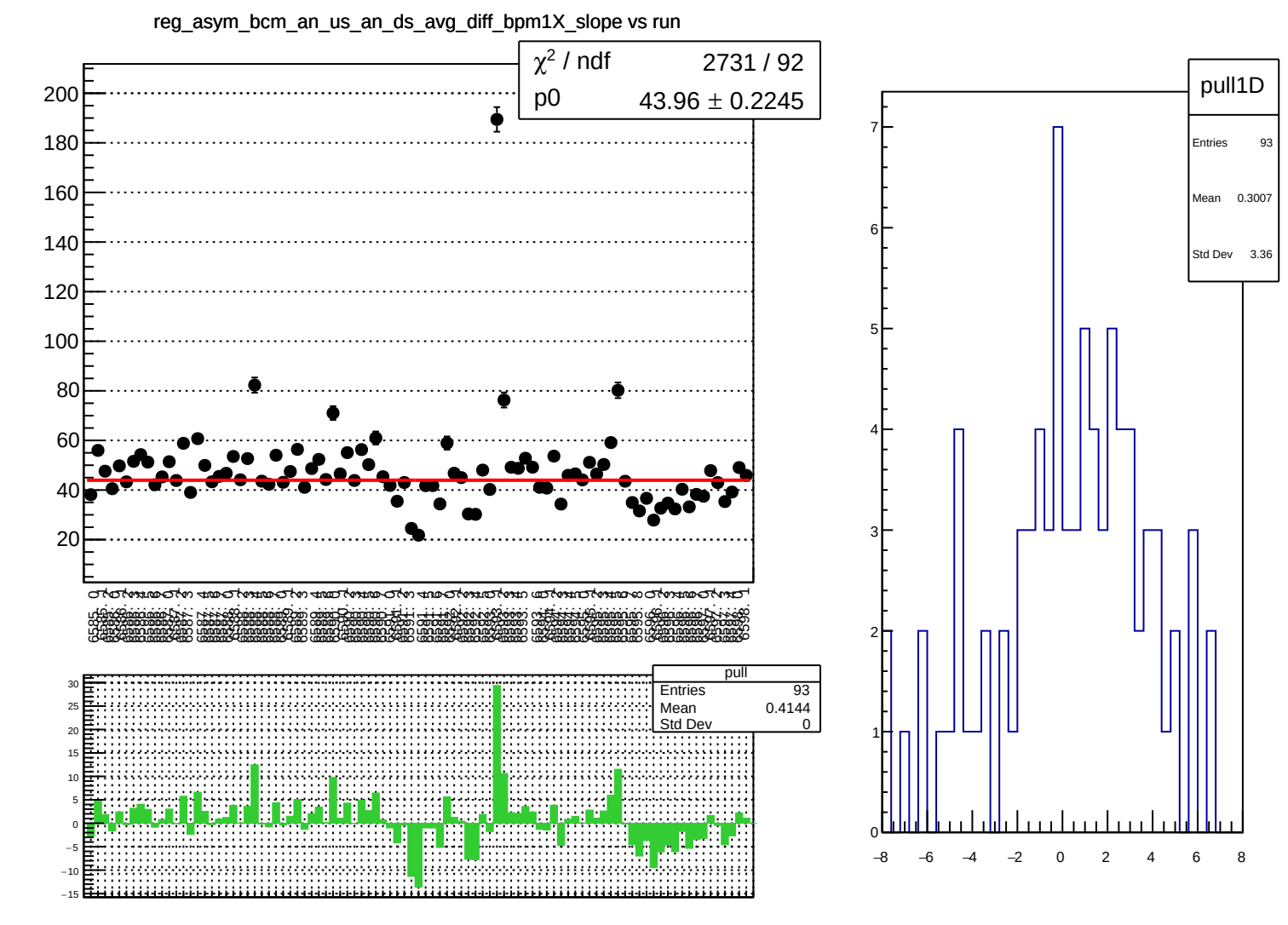

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 2690 / 92
p0 14.73 ± 0.07618
pull
Entries 93
Mean −0.05427
Std Dev 0
pull1D
Entries 93
Mean 0.2879
Std Dev 3.331

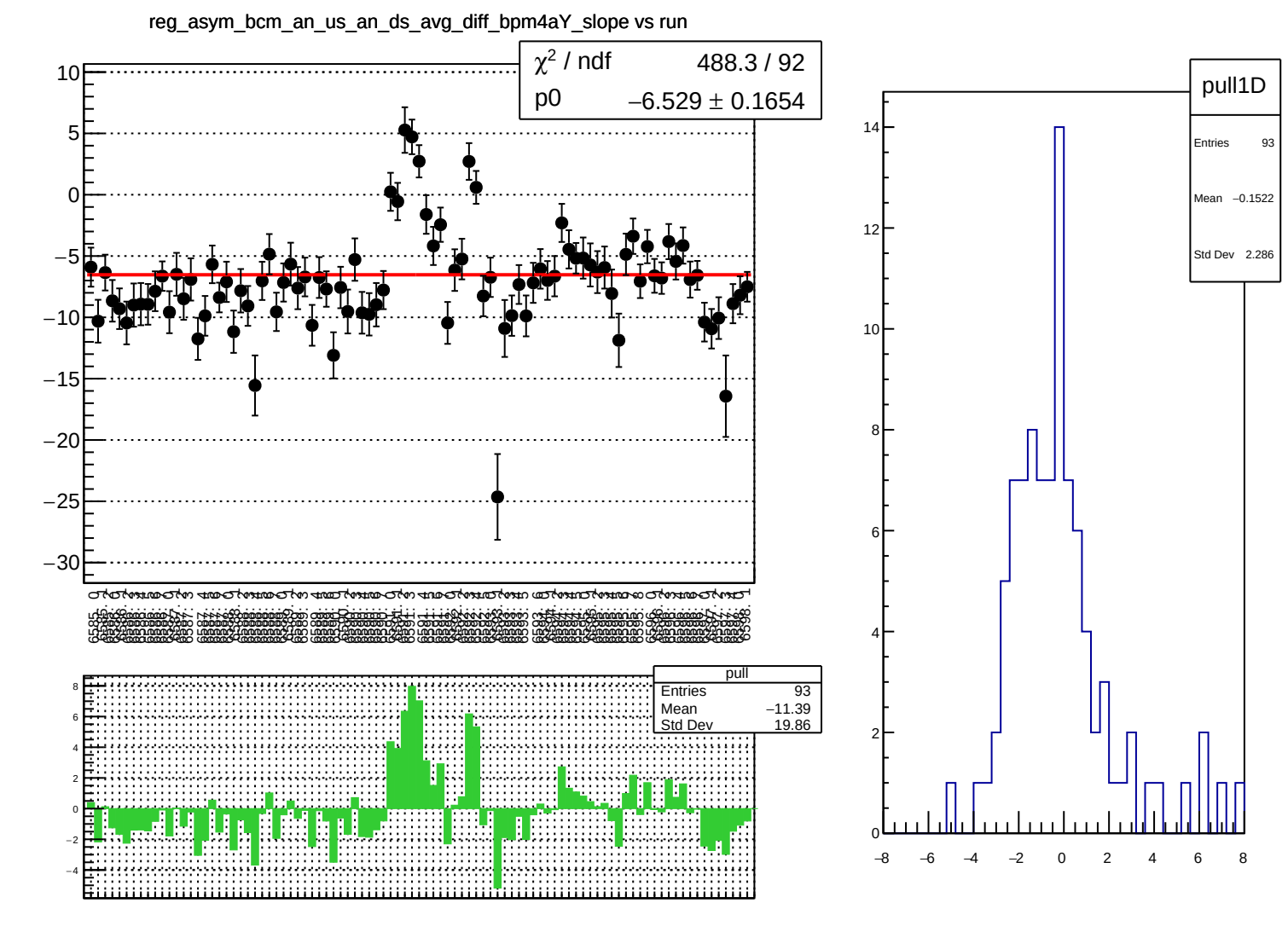

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 479.6 / 92
p0 −2.204 ± 0.05612
pull
Entries 93
Mean −11.36
Std Dev 17.28
pull1D
Entries 93
Mean −0.1523
Std Dev 2.266

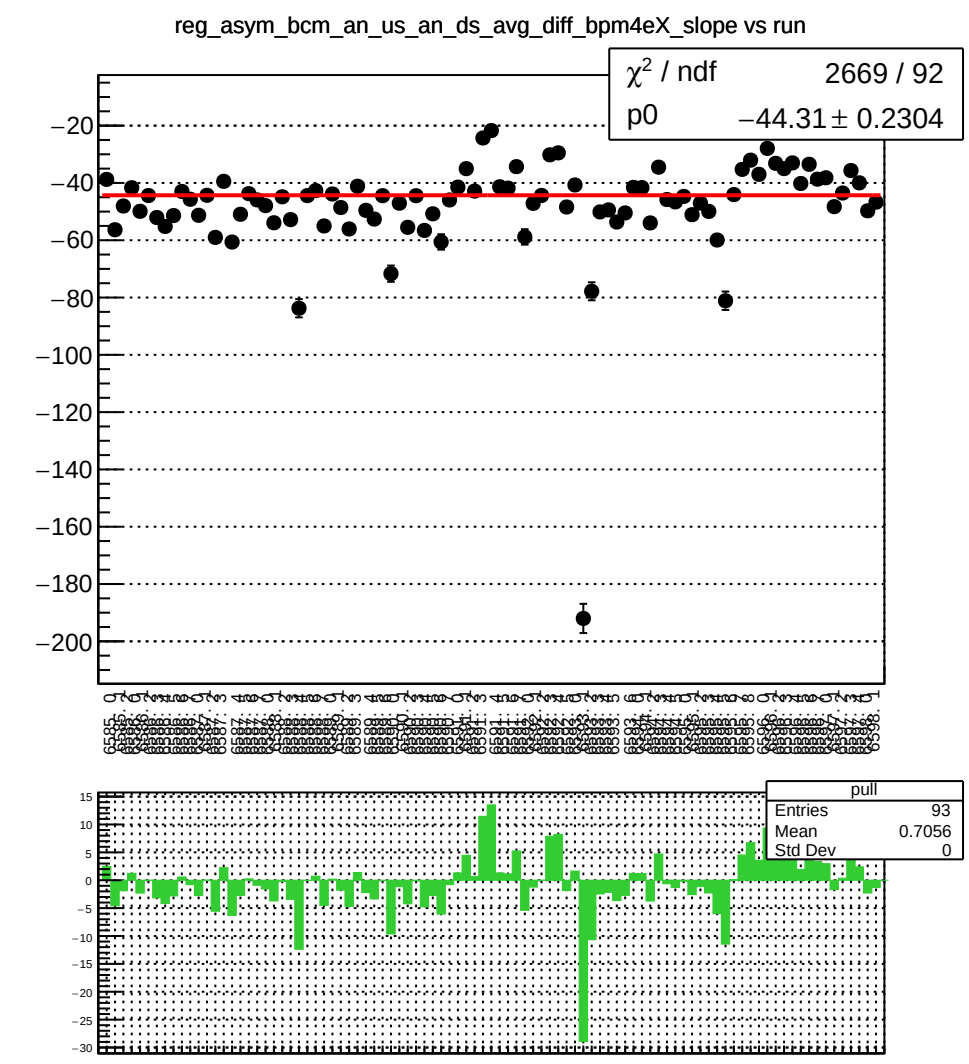

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 2626 / 92
p0 −14.87 ± 0.07816
pull
Entries 93
Mean 0.3025
Std Dev 0
pull1D
Entries 93
Mean −0.3896
Std Dev 3.17

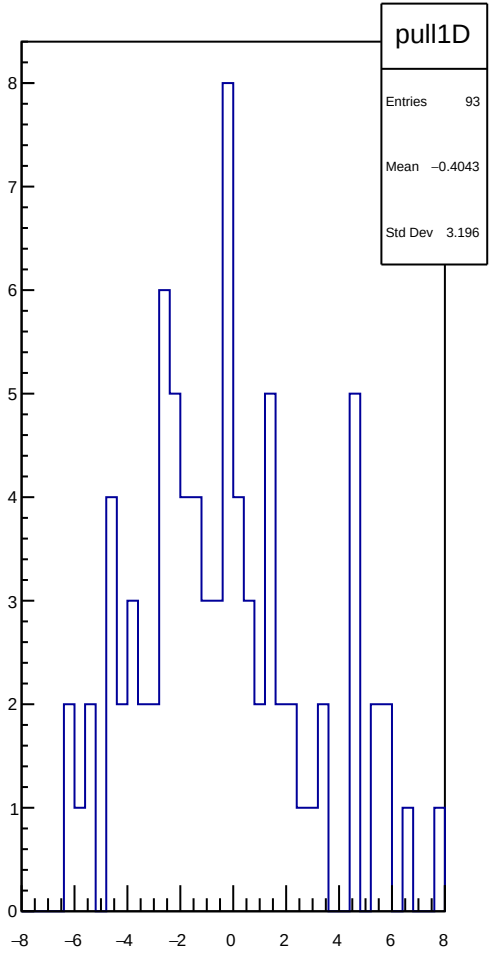

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 503.6 / 92
p0 2.2 ± 0.0665
pull
Entries 93
Mean −26.41
Std Dev 0
pull1D
Entries 93
Mean 0.2268
Std Dev 2.174

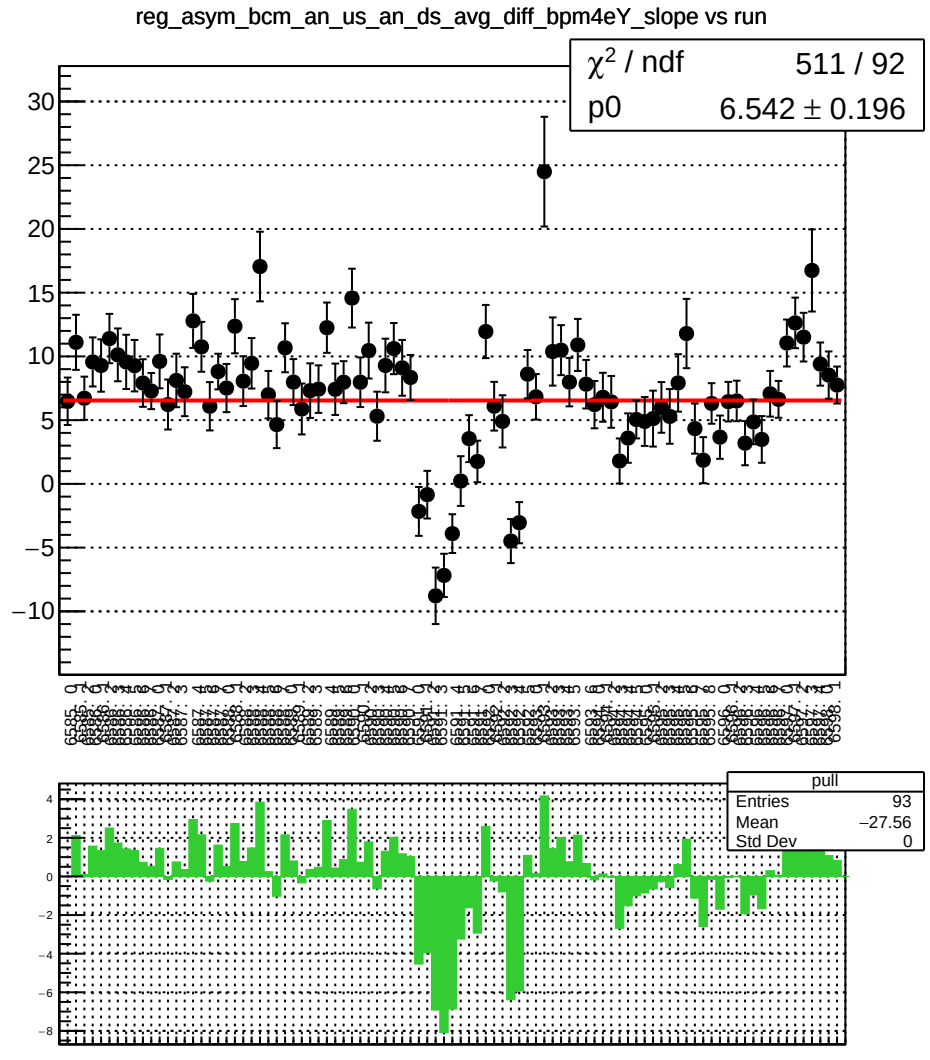

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 166.6 / 92
p0 −0.1134 ± 0.003176
pull
Entries 93
Mean −47.41
Std Dev 0
pull1D
Entries 93
Mean −0.1491
Std Dev 1.33

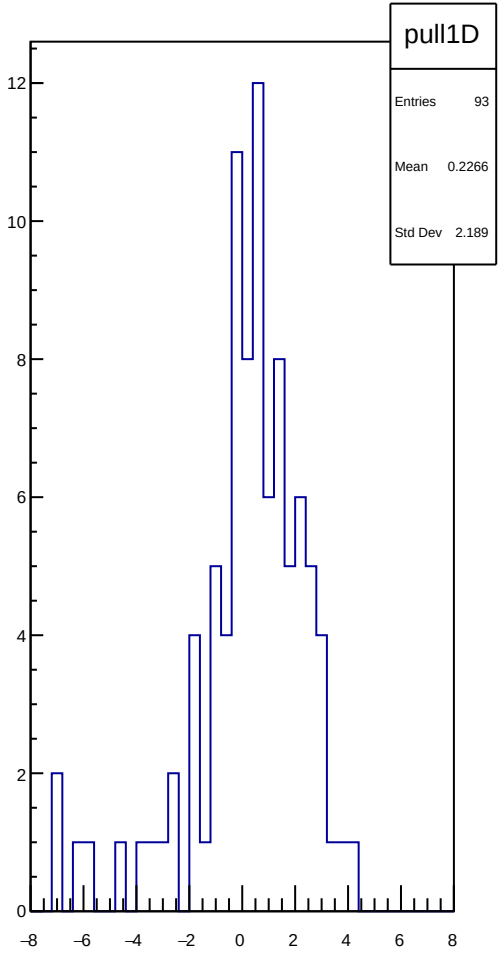

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 2731 / 92
p0 43.96 ± 0.2245
pull
Entries 93
Mean 0.4144
Std Dev 0
pull1D
Entries 93
Mean 0.3007
Std Dev 3.36

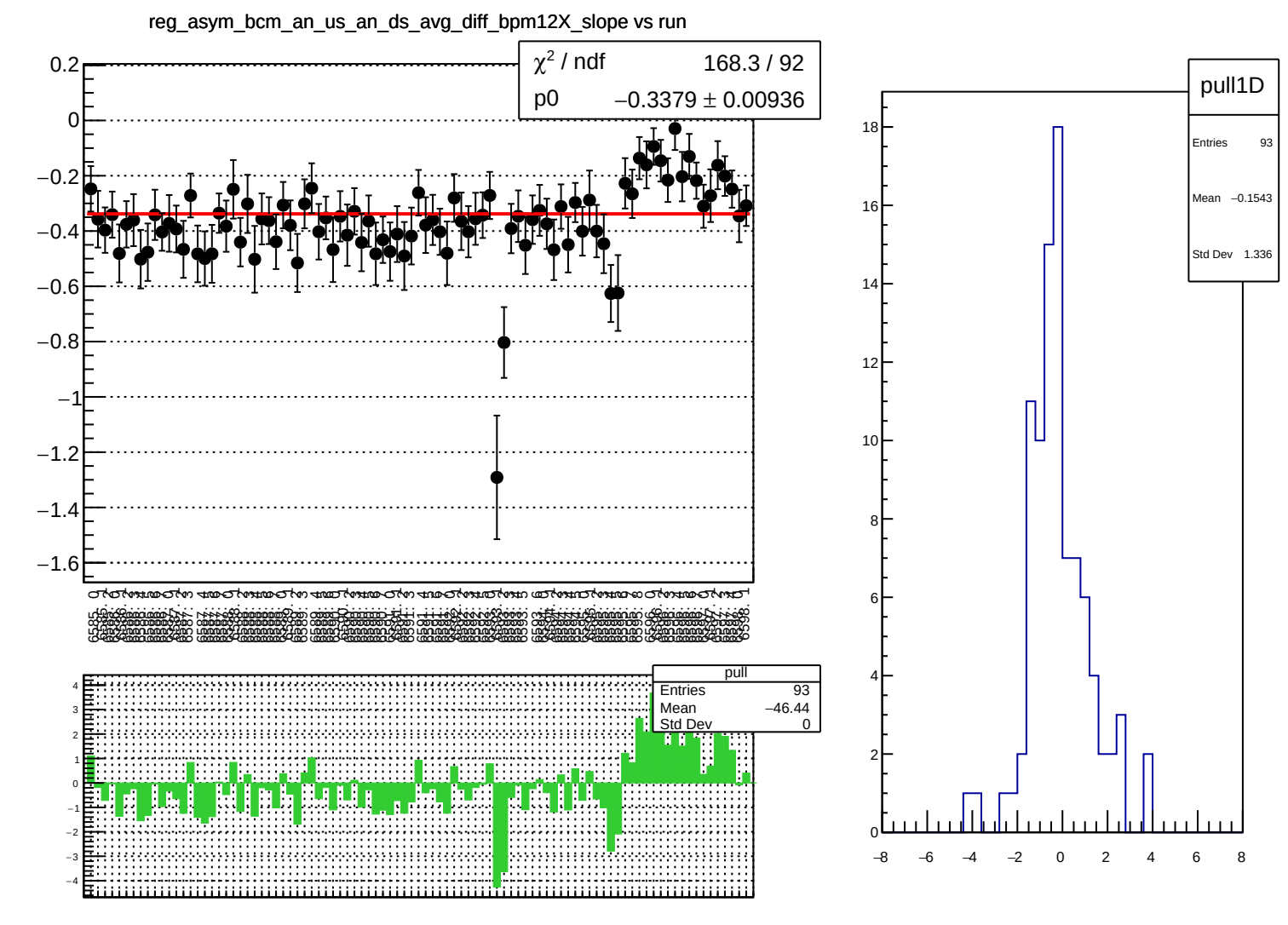

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 488.3 / 92
p0 −6.529 ± 0.1654
pull
Entries 93
Mean −11.39
Std Dev 19.86
pull1D
Entries 93
Mean −0.1522
Std Dev 2.286

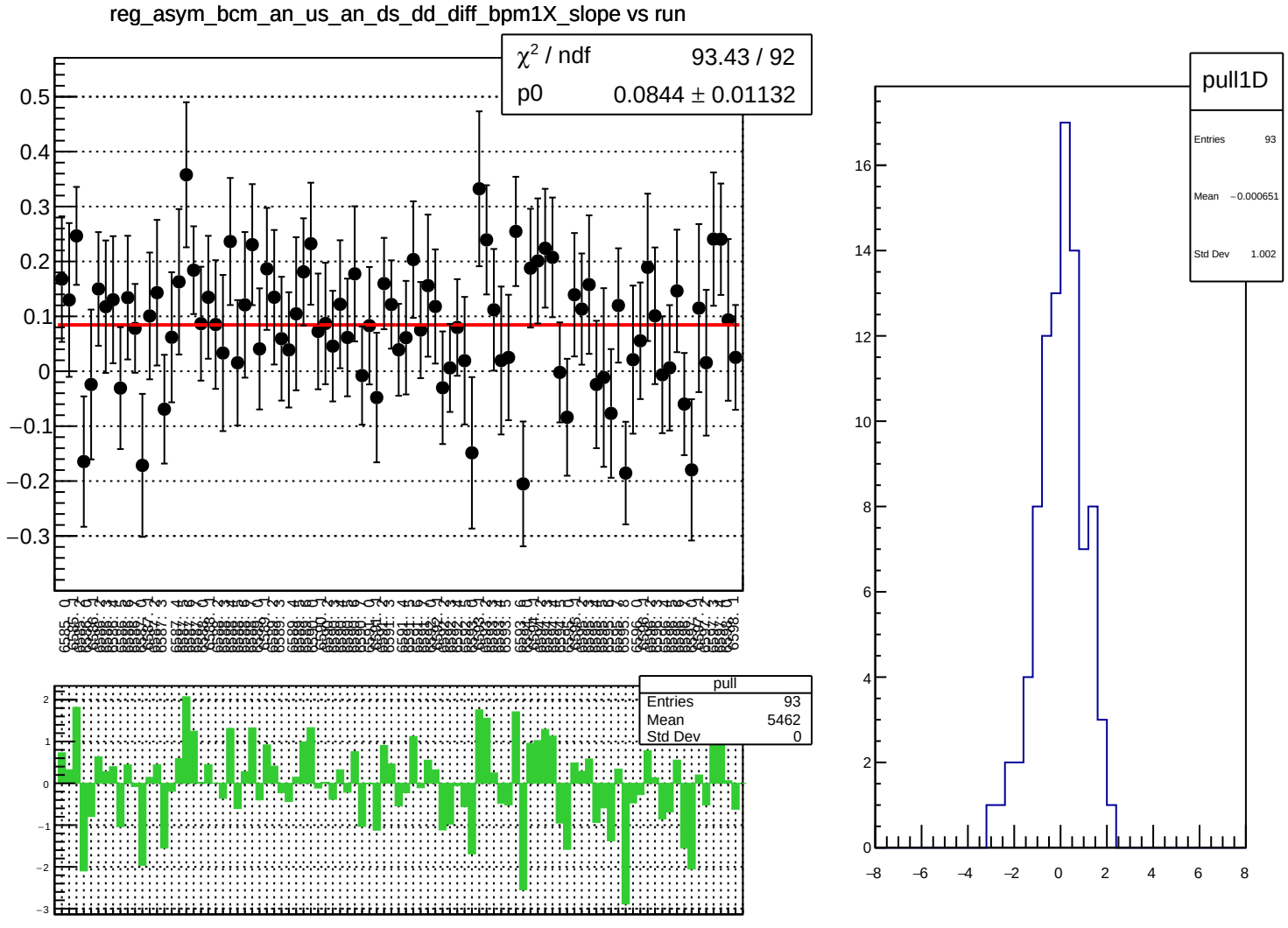

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 2669 / 92
p0 −44.31 ± 0.2304
pull
Entries 93
Mean 0.7056
Std Dev 0

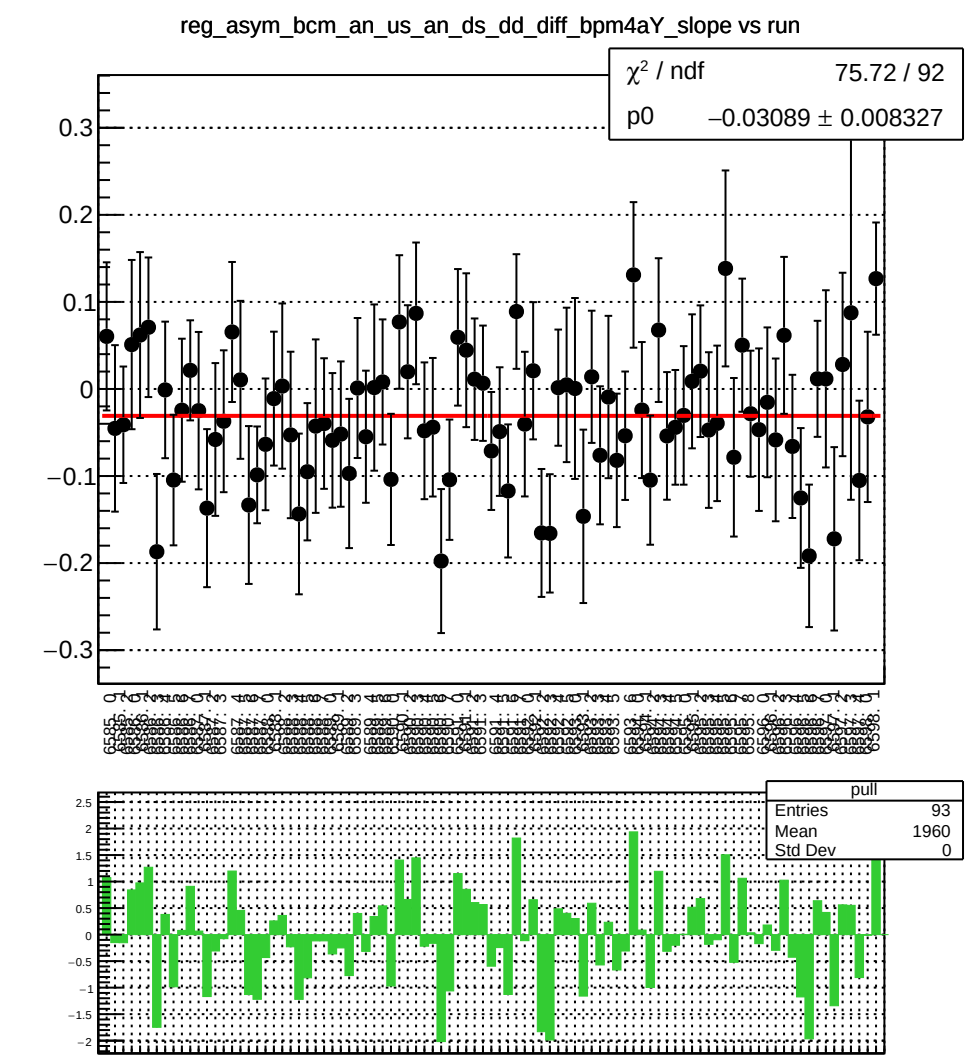

pull1D
Entries 93
Mean −0.4043
Std Dev 3.196

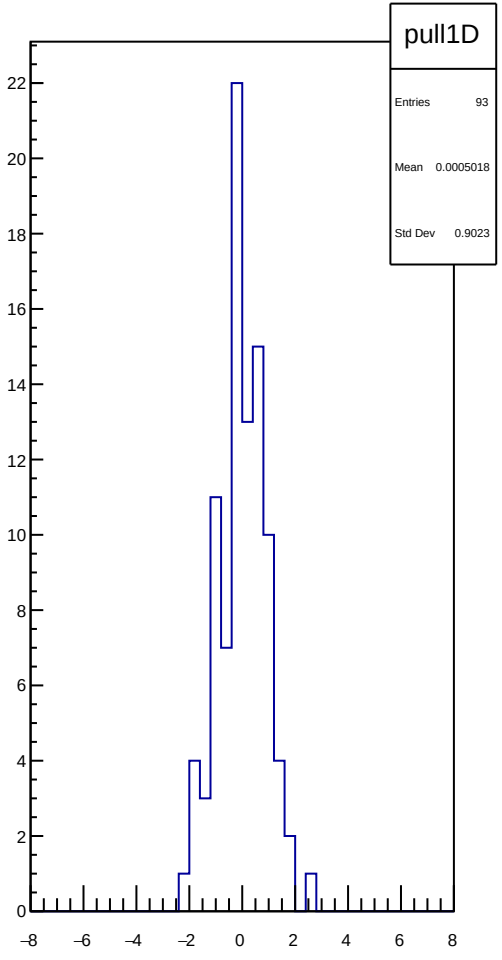

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 511 / 92
p0 6.542 ± 0.196
pull
Entries 93
Mean −27.56
Std Dev 0

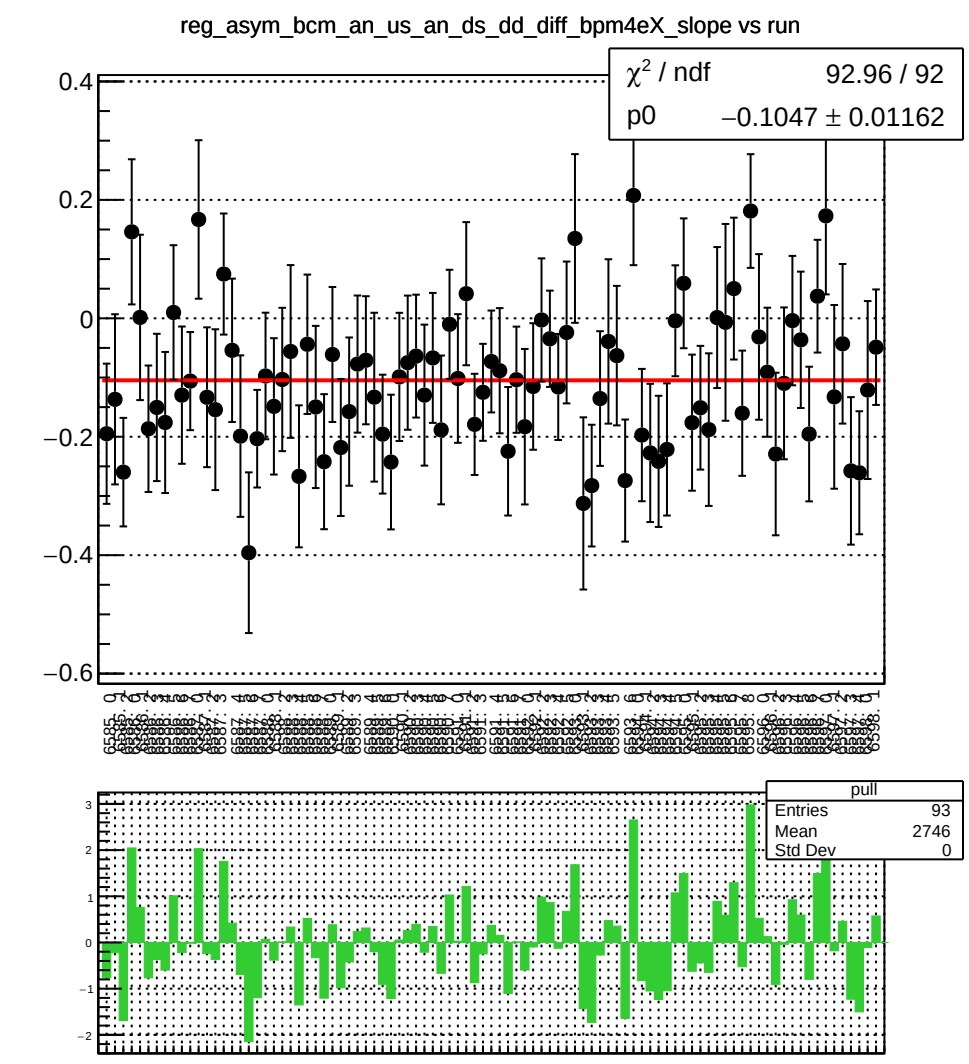

pull1D
Entries 93
Mean 0.2266
Std Dev 2.189

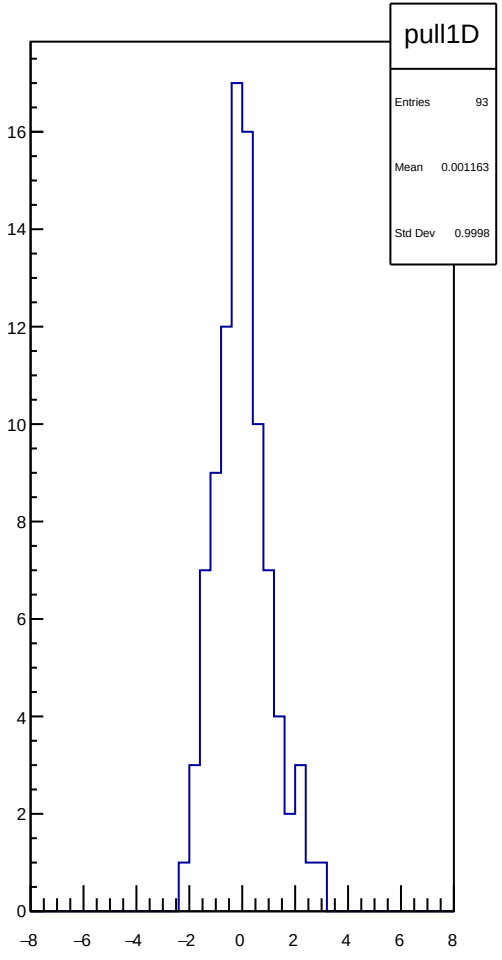

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 168.3 / 92
p0 −0.3379 ± 0.00936
pull
Entries 93
Mean −46.44
Std Dev 0
pull1D
Entries 93
Mean −0.1543
Std Dev 1.336

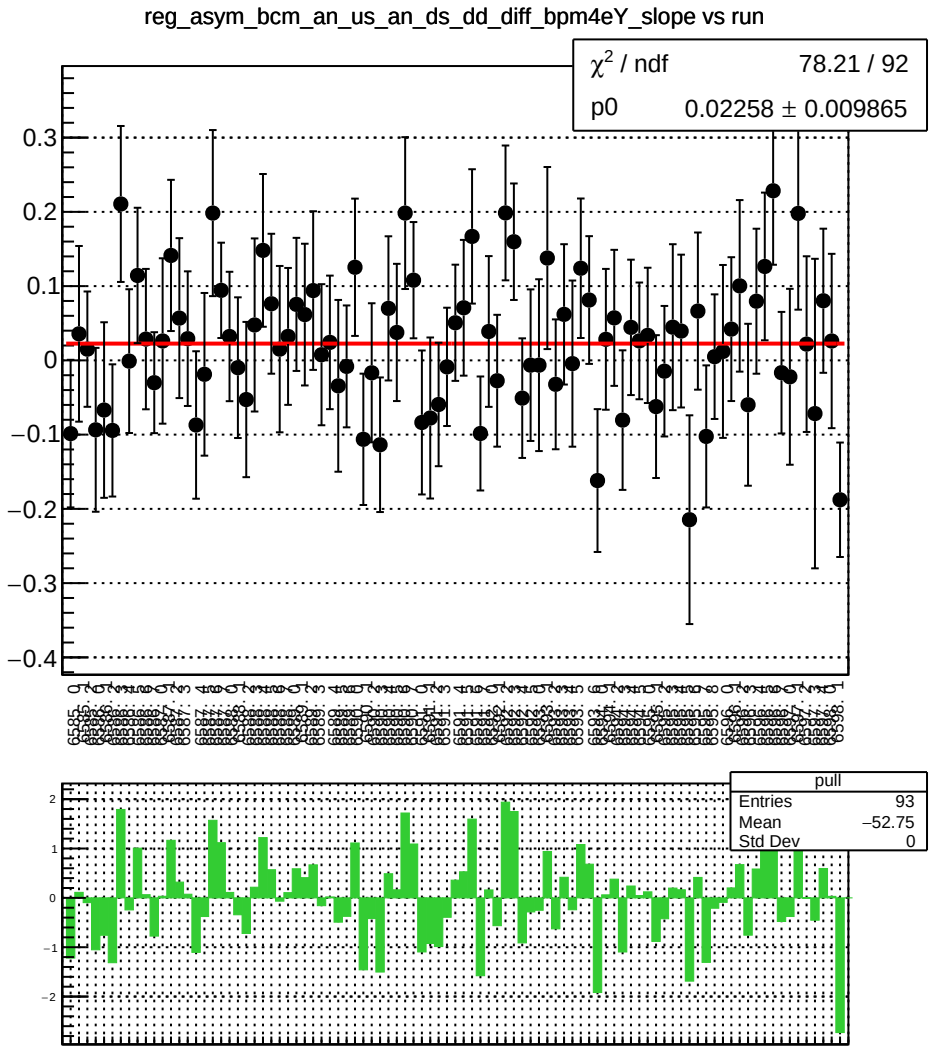

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 93.43 / 92
p0 0.0844 ± 0.01132
pull
Entries 93
Mean 5462
Std Dev 0
pull1D
Entries 93
Mean −0.000651
Std Dev 1.002

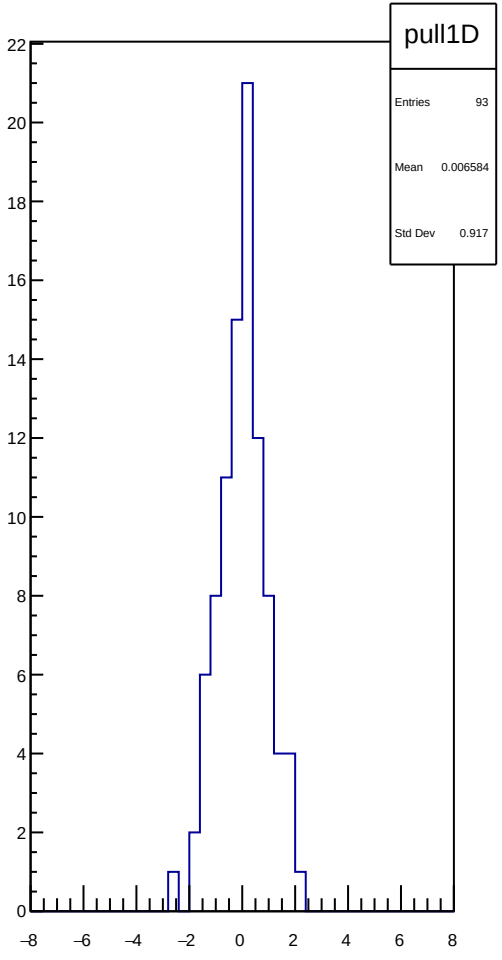

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.72 / 92
p0 −0.03089 ± 0.008327
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean 1960
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

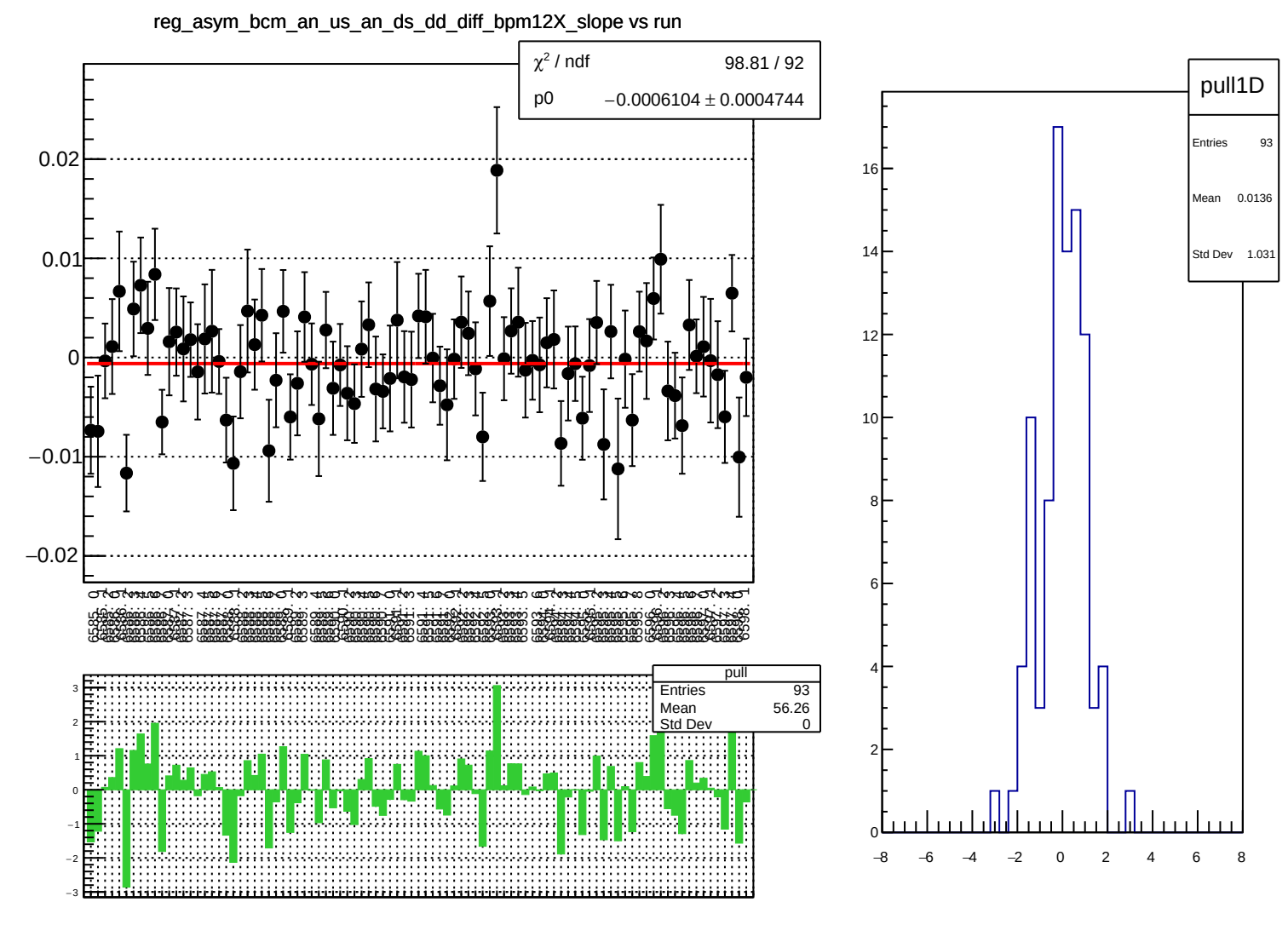

pull1D
Entries 93
Mean 0.0005018
Std Dev 0.9023
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

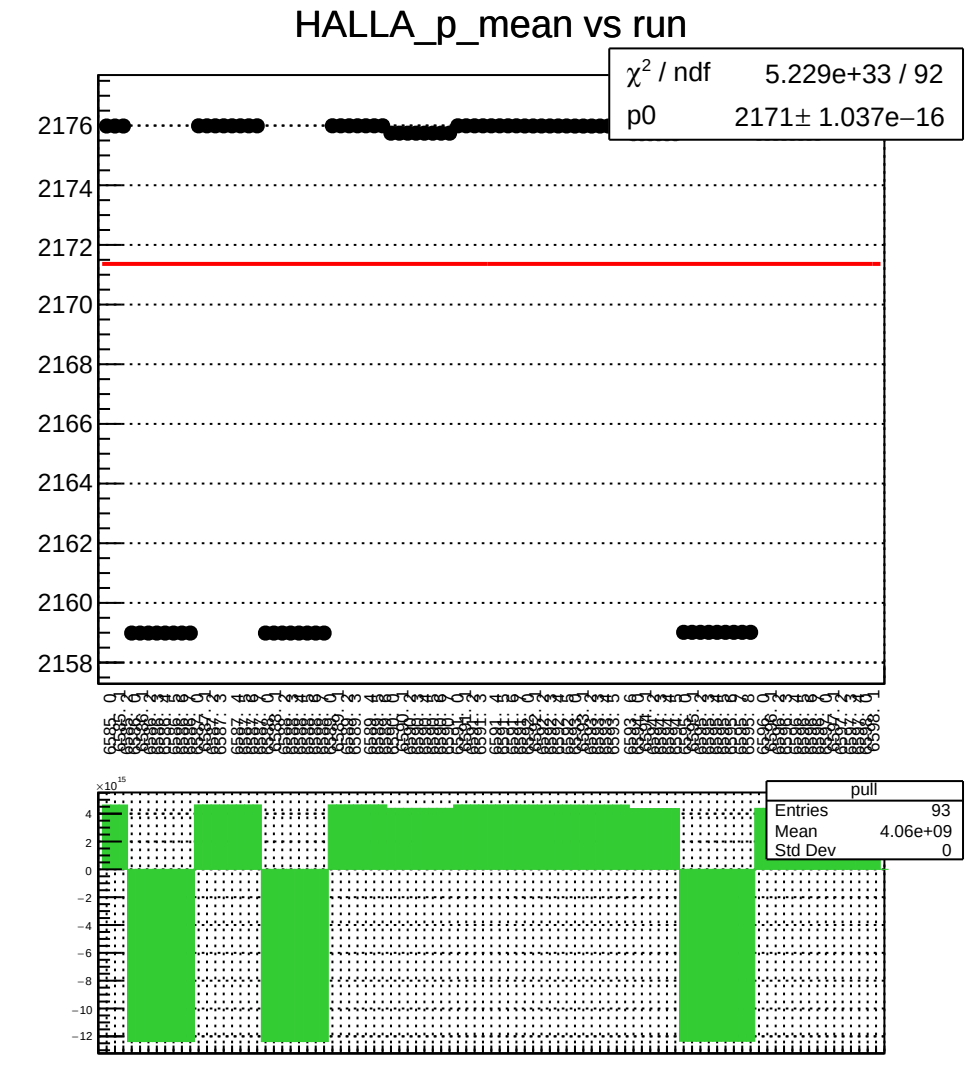

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.96 / 92
p0 −0.1047 ± 0.01162
pull
Entries 93
Mean 2746
Std Dev 0

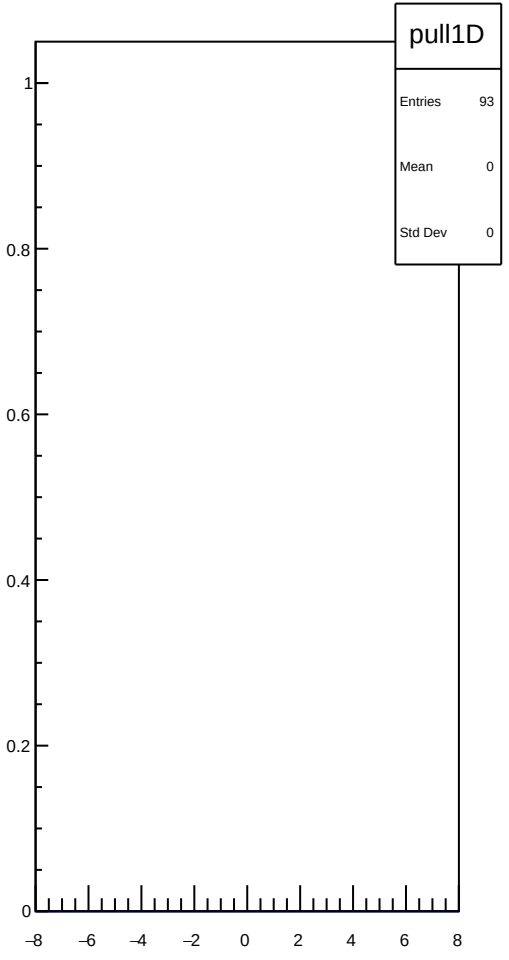

pull1D
Entries 93
Mean 0.001163
Std Dev 0.9998

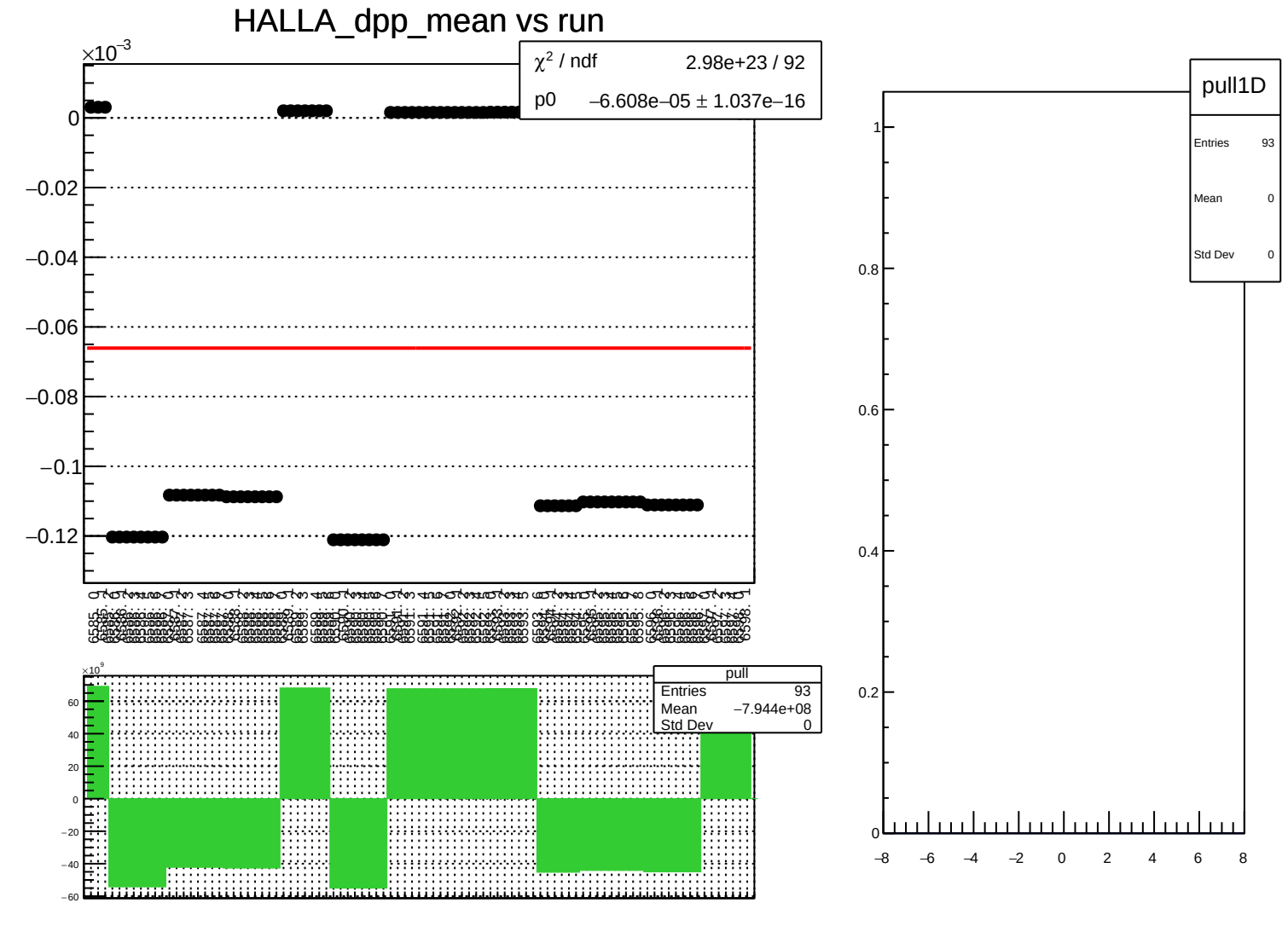

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.21 / 92
p0 0.02258 ± 0.009865
pull
Entries 93
Mean −52.75
Std Dev 0

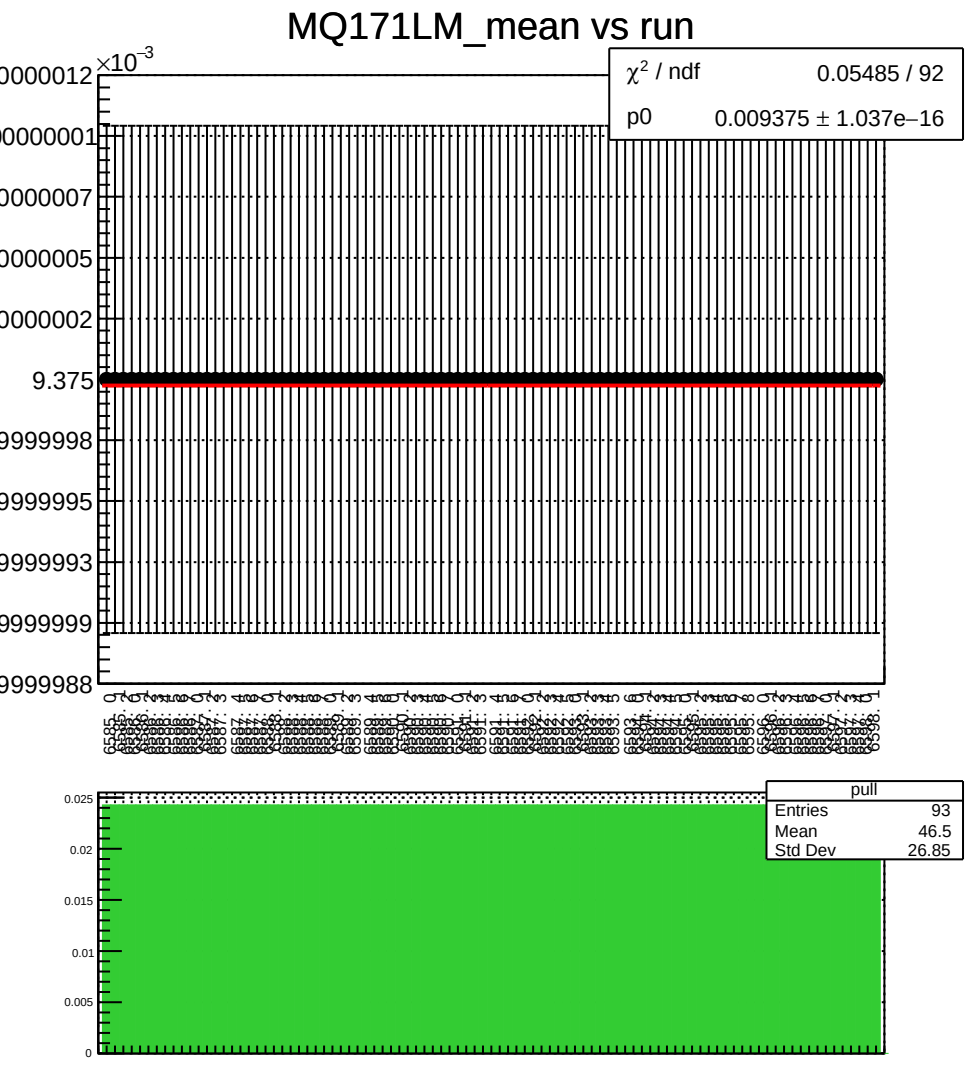

pull1D
Entries 93
Mean 0.006584
Std Dev 0.917

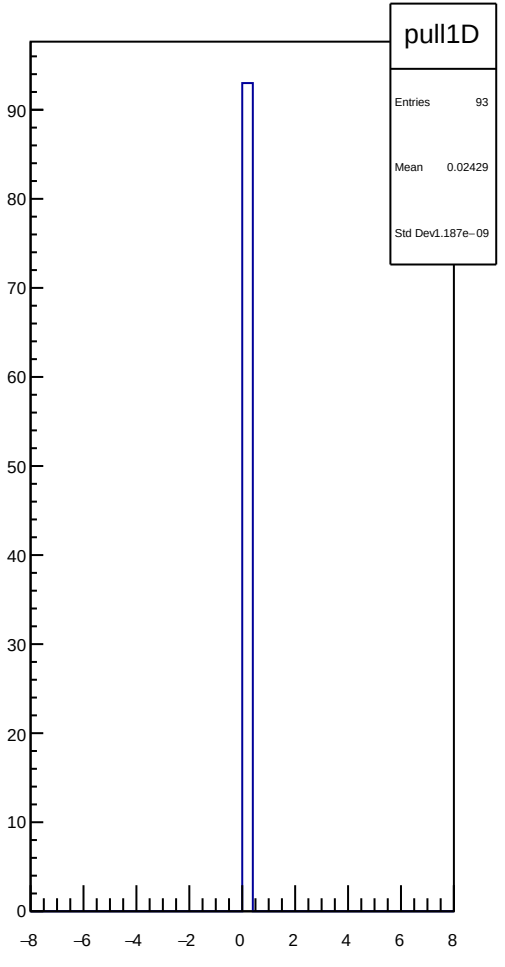

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 98.81 / 92
p0 −0.0006104 ± 0.0004744
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 56.26
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.0136
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

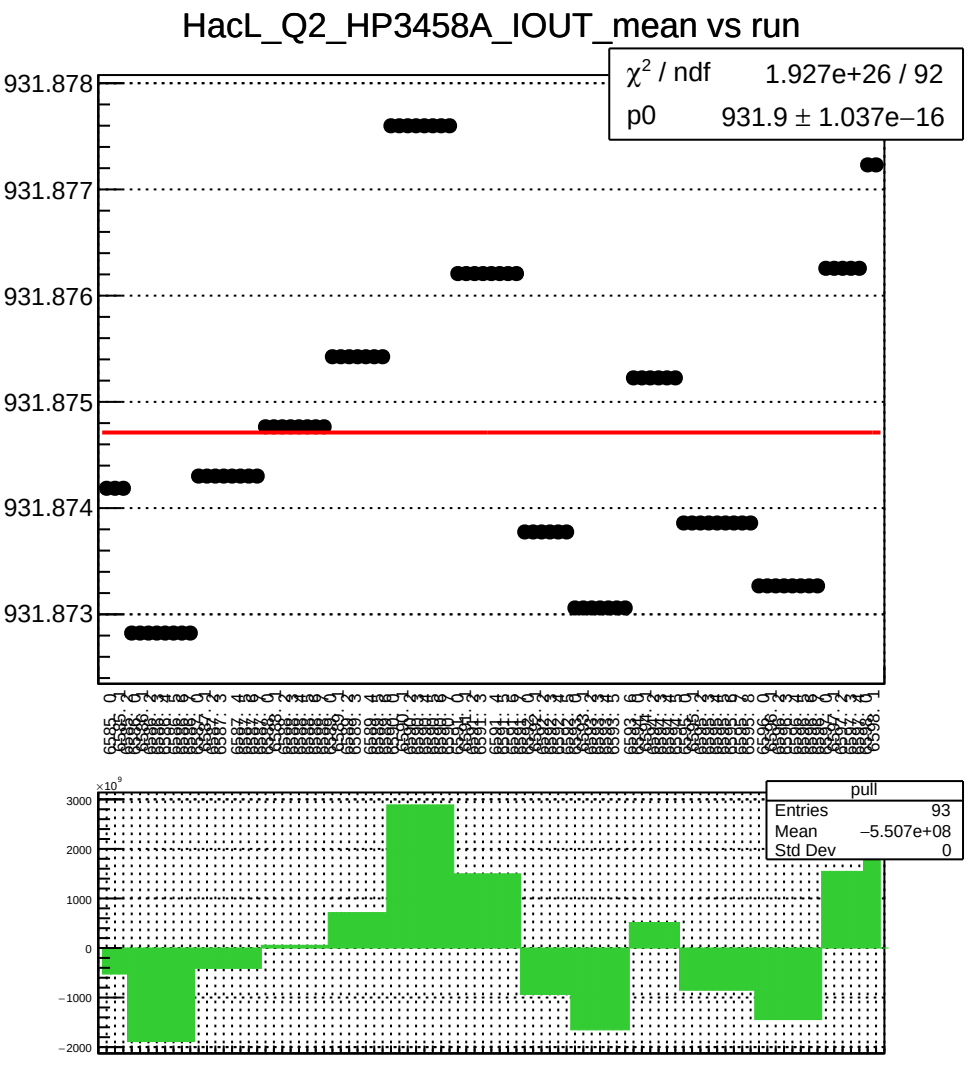

HALLA_p_mean vs run
χ² / ndf 5.229e+33 / 92
p0 2171± 1.037e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 93
Mean 4.06e+09
Std Dev 0
×10¹⁵
4
2
0
−2
−4
−6
−8
−10
−12

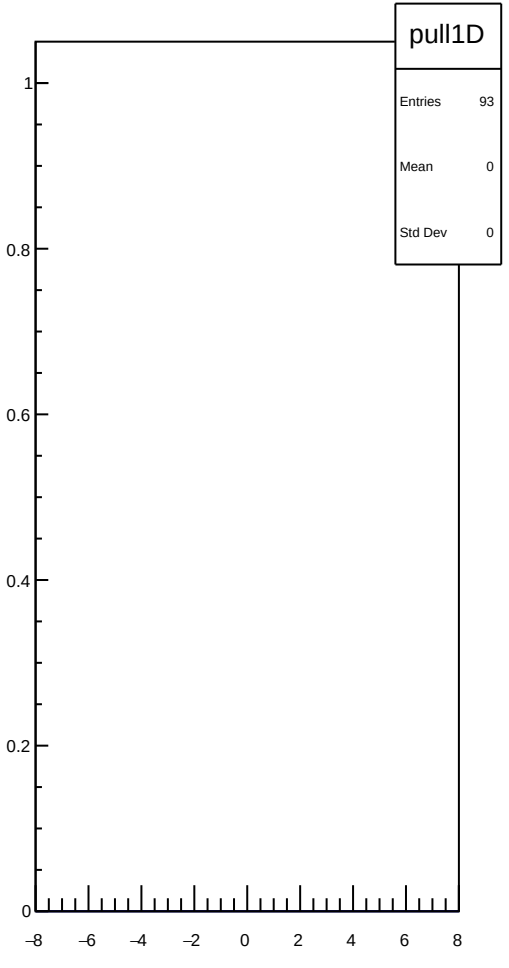

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

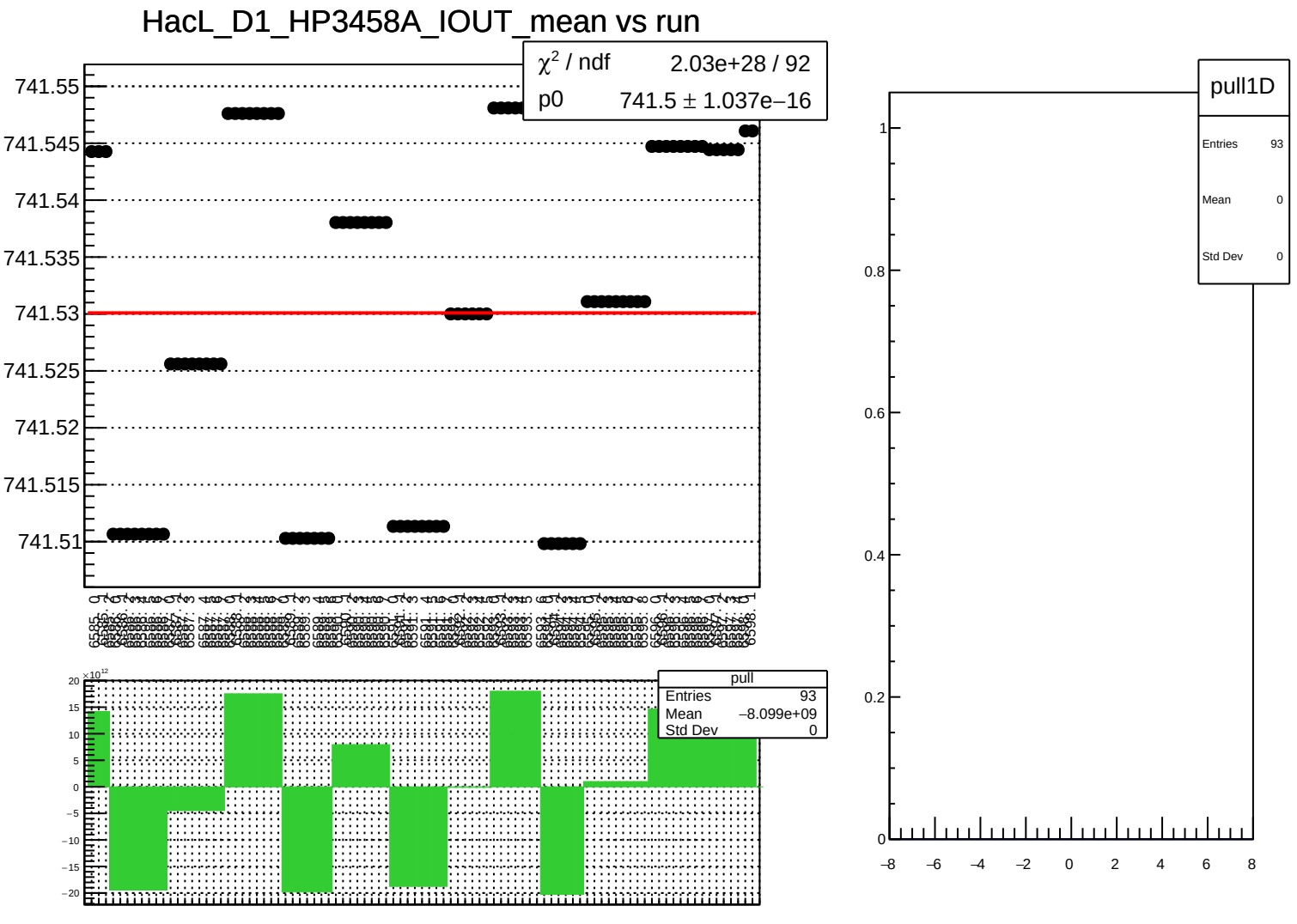

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.98e+23 / 92
p0 −6.608e−05 ± 1.037e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
60
40
20
0
−20
−40
−60
pull
Entries 93
Mean −7.944e+08
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

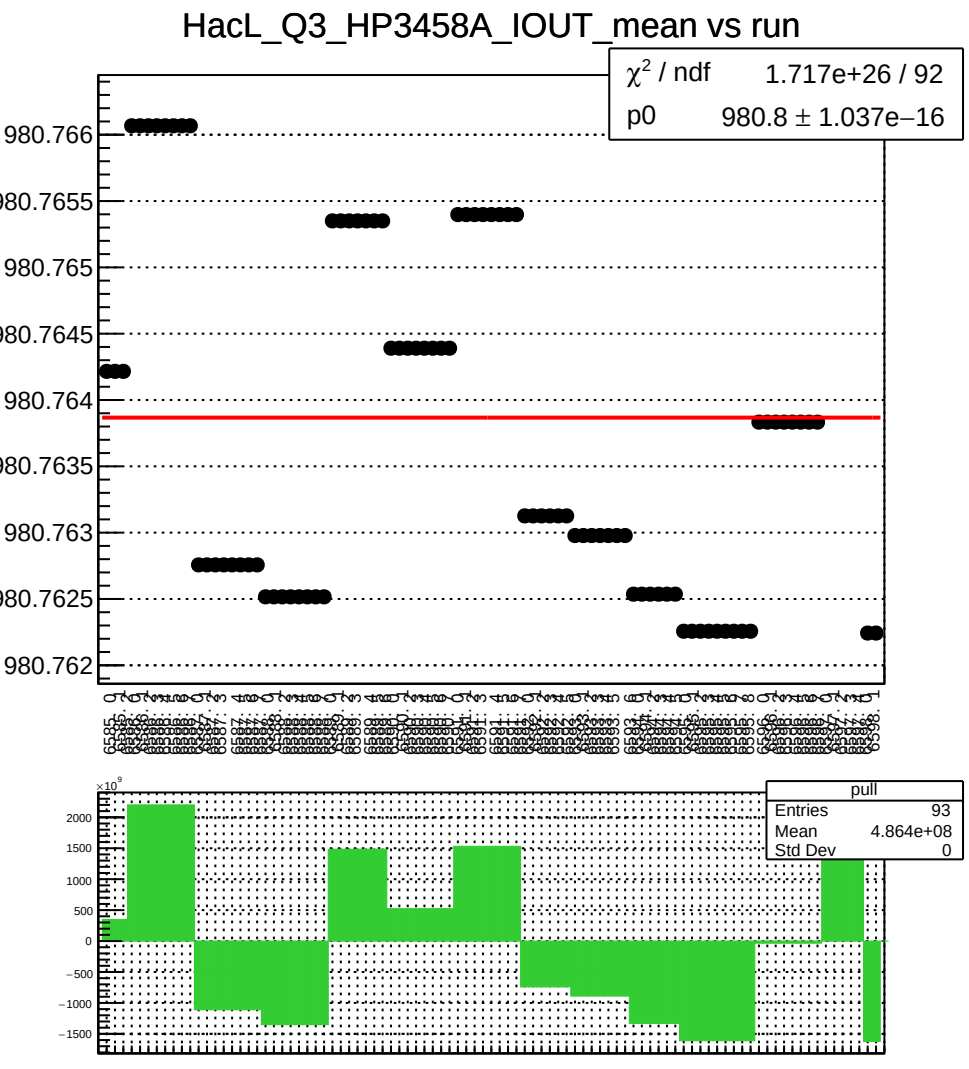

MQ171LM_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85

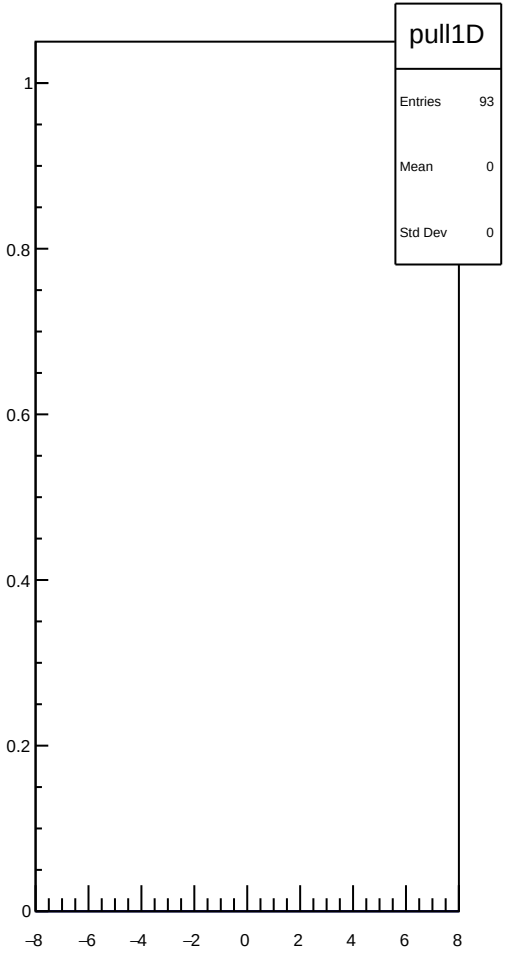

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

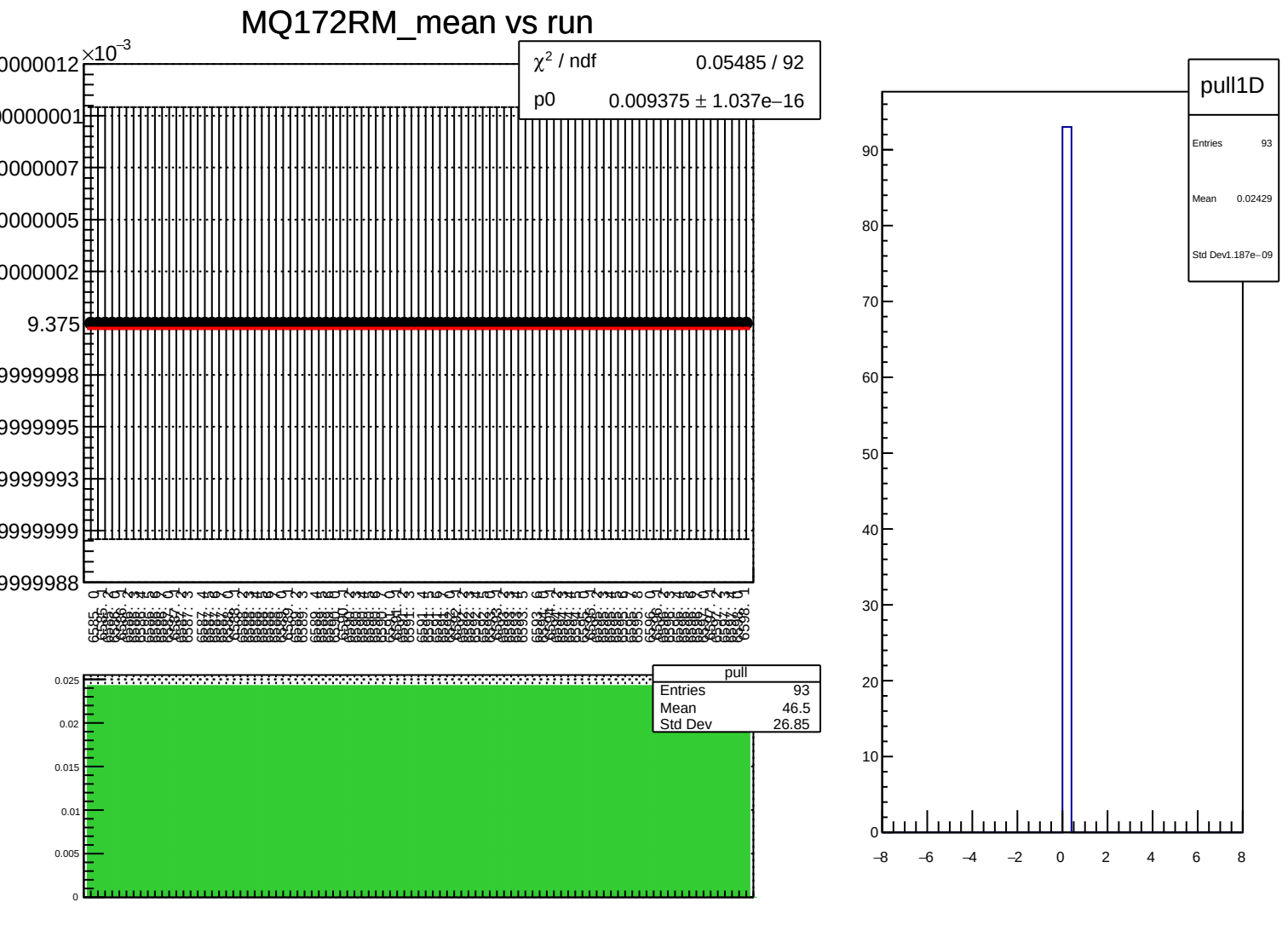

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.927e+26 / 92
p0 931.9 ± 1.037e−16
931.878
931.877
931.876
931.875
931.874
931.873
pull
Entries 93
Mean −5.507e+08
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000

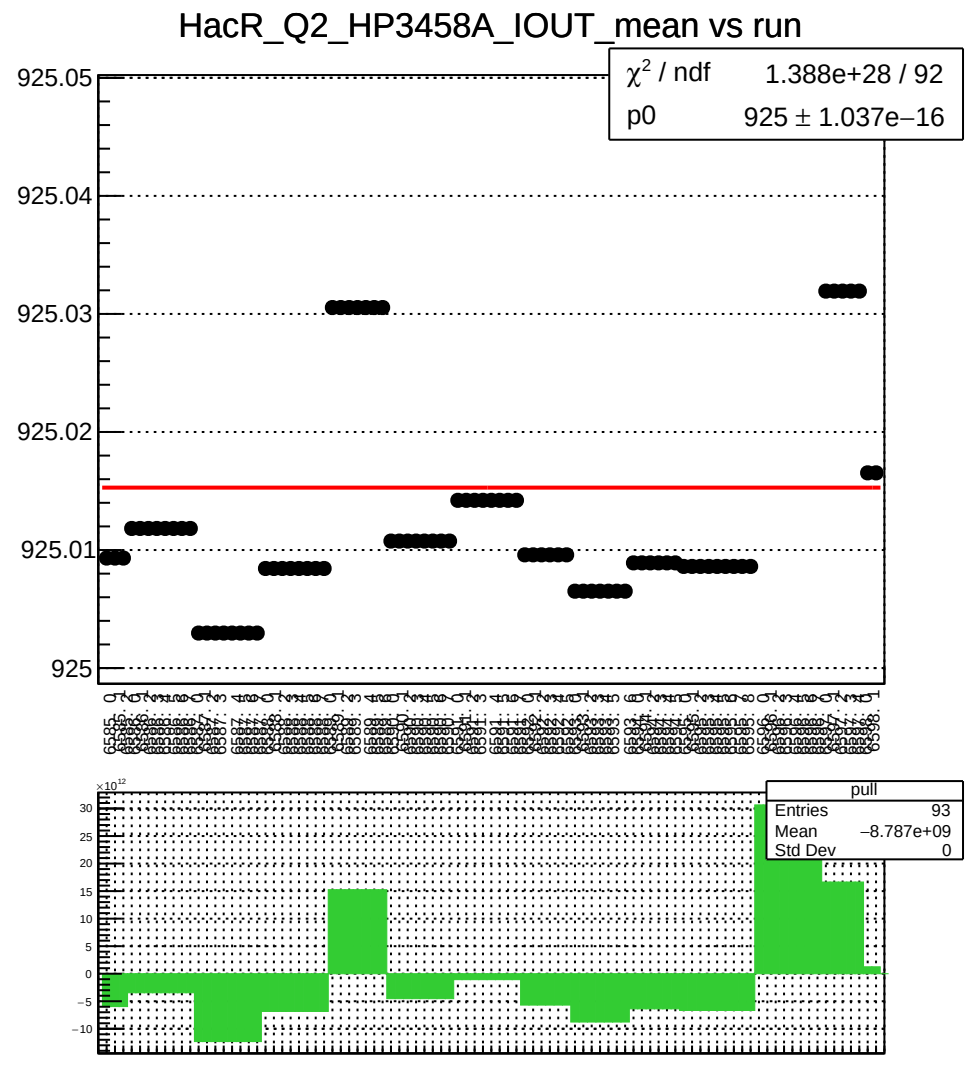

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

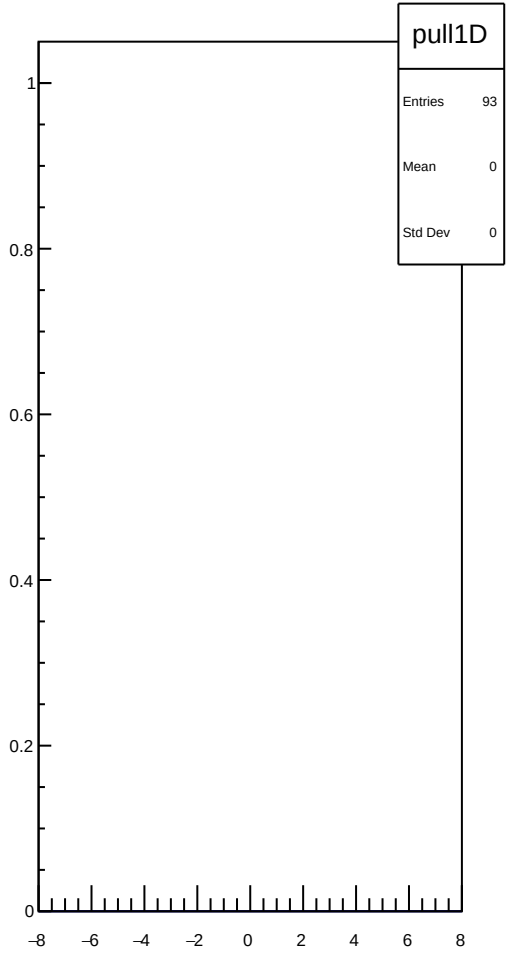

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.03e+28 / 92
p0 741.5 ± 1.037e−16
741.55
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
pull
Entries 93
Mean −8.099e+09
Std Dev 0
×10¹²
20
15
10
5
0
−5
−10
−15
−20
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

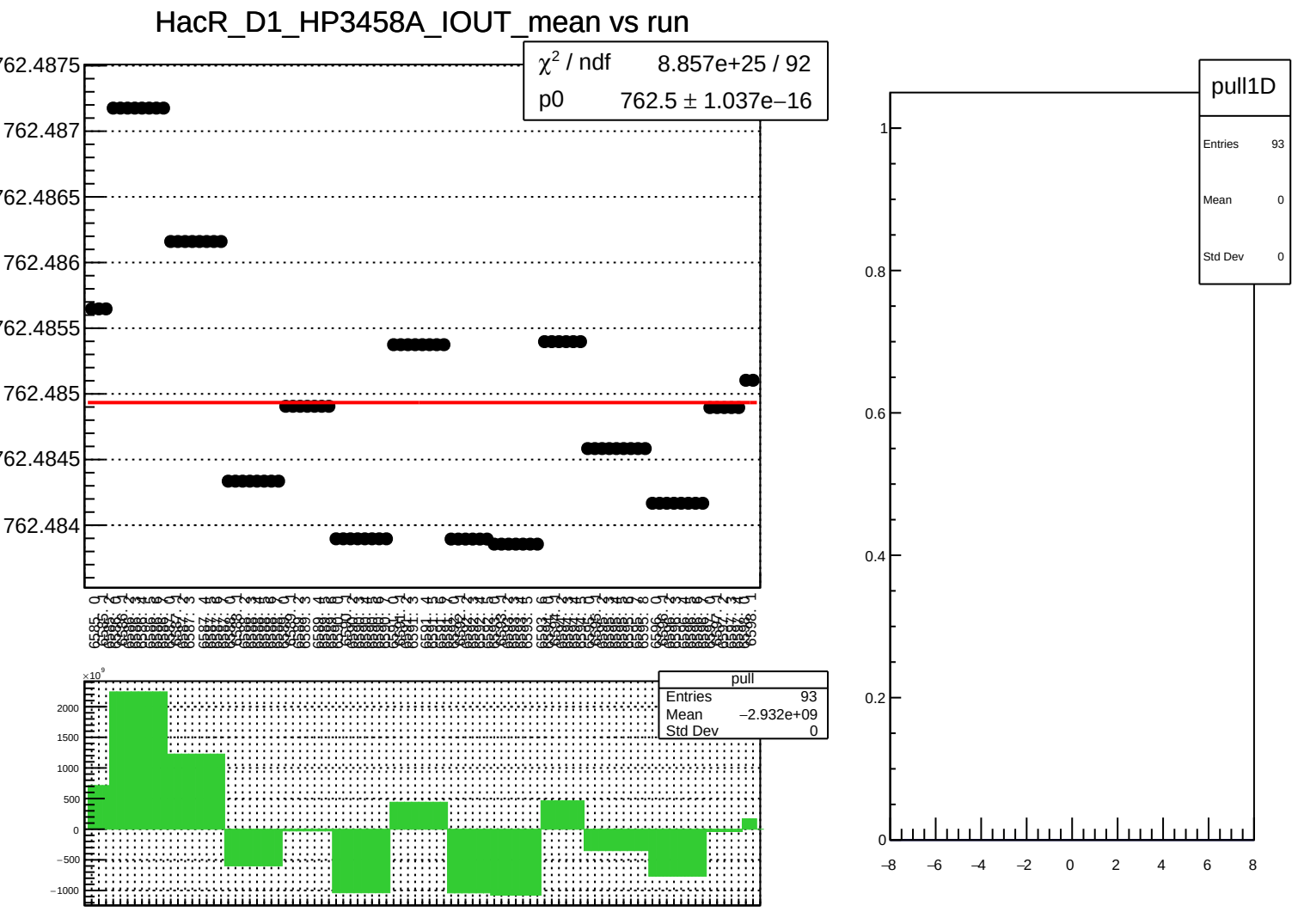

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.717e+26 / 92
p0 980.8 ± 1.037e−16
980.766
980.7655
980.765
980.7645
980.764
980.7635
980.763
980.7625
980.762
×10⁹
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 4.864e+08
Std Dev 0

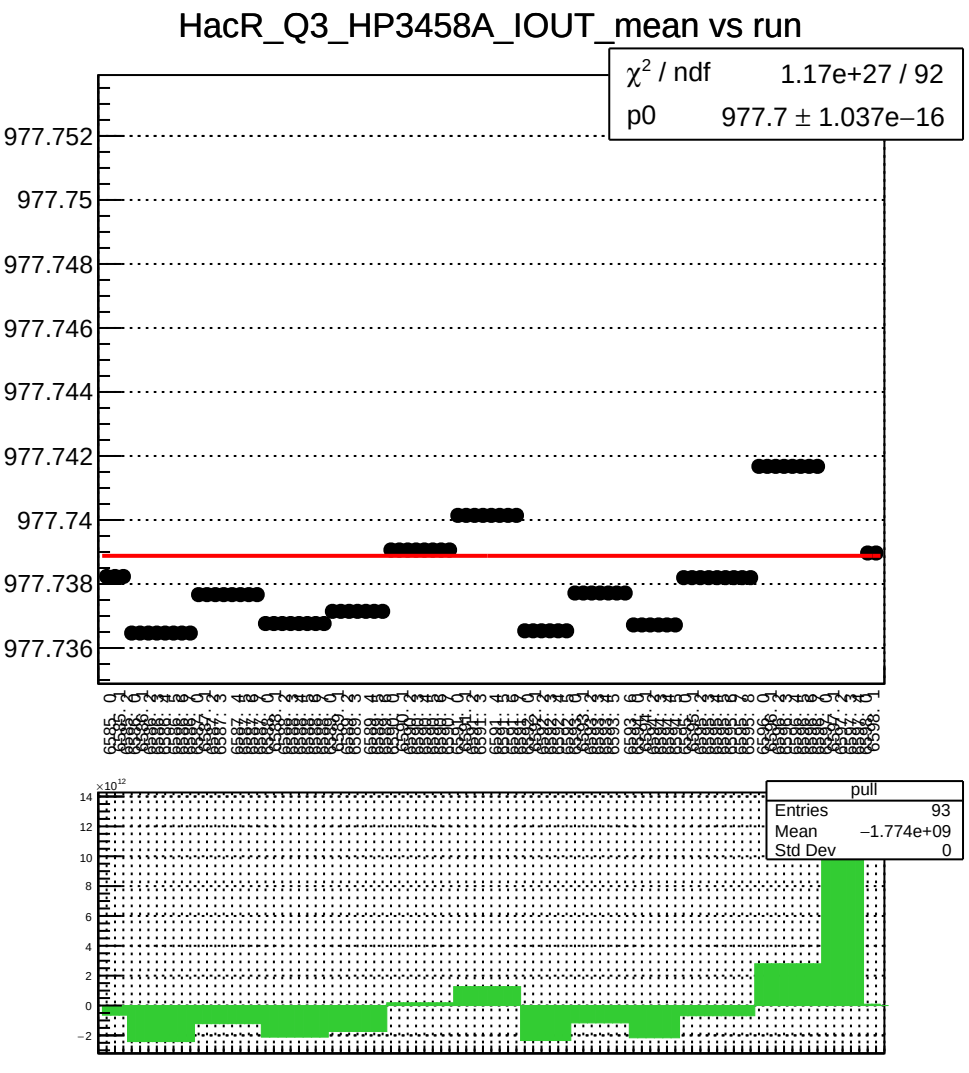

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

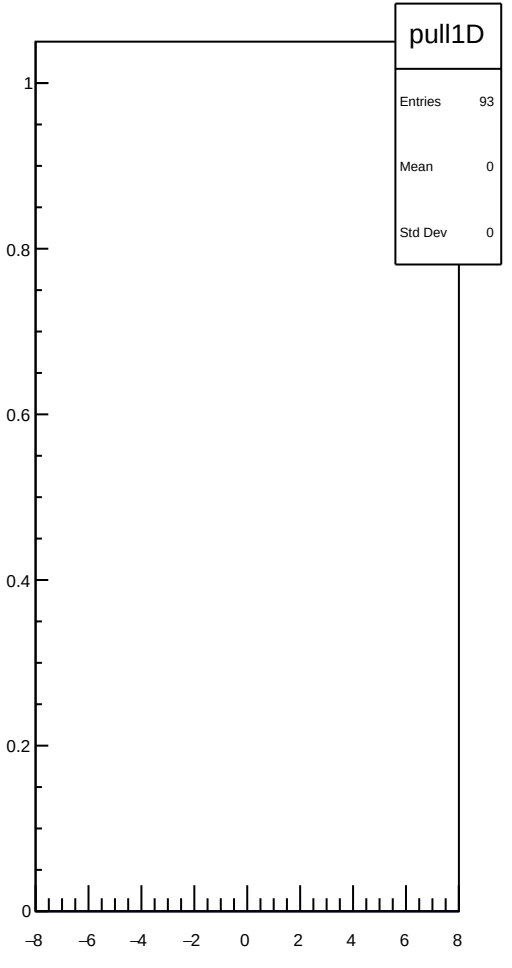

MQ172RM_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
9.375
pull
Entries 93
Mean 46.5
Std Dev 26.85
pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

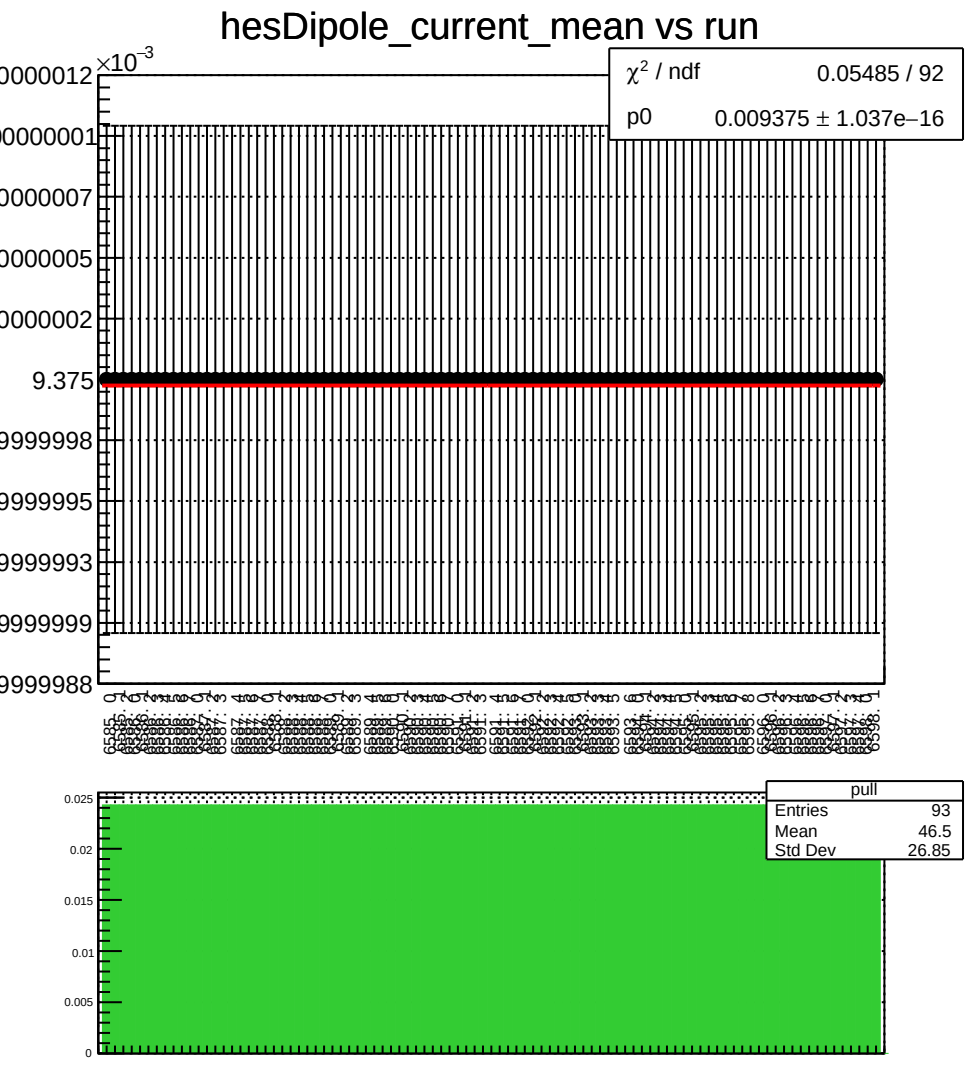

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.388e+28 / 92
p0 925 ± 1.037e−16
925.05
925.04
925.03
925.02
925.01
925
pull
Entries 93
Mean −8.787e+09
Std Dev 0
×10¹²
30
25
20
15
10
5
0
−5
−10

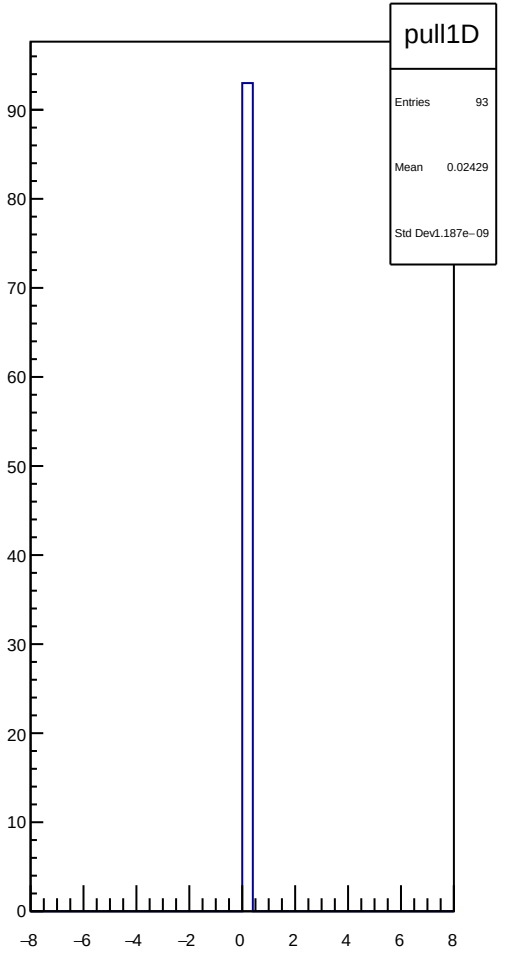

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

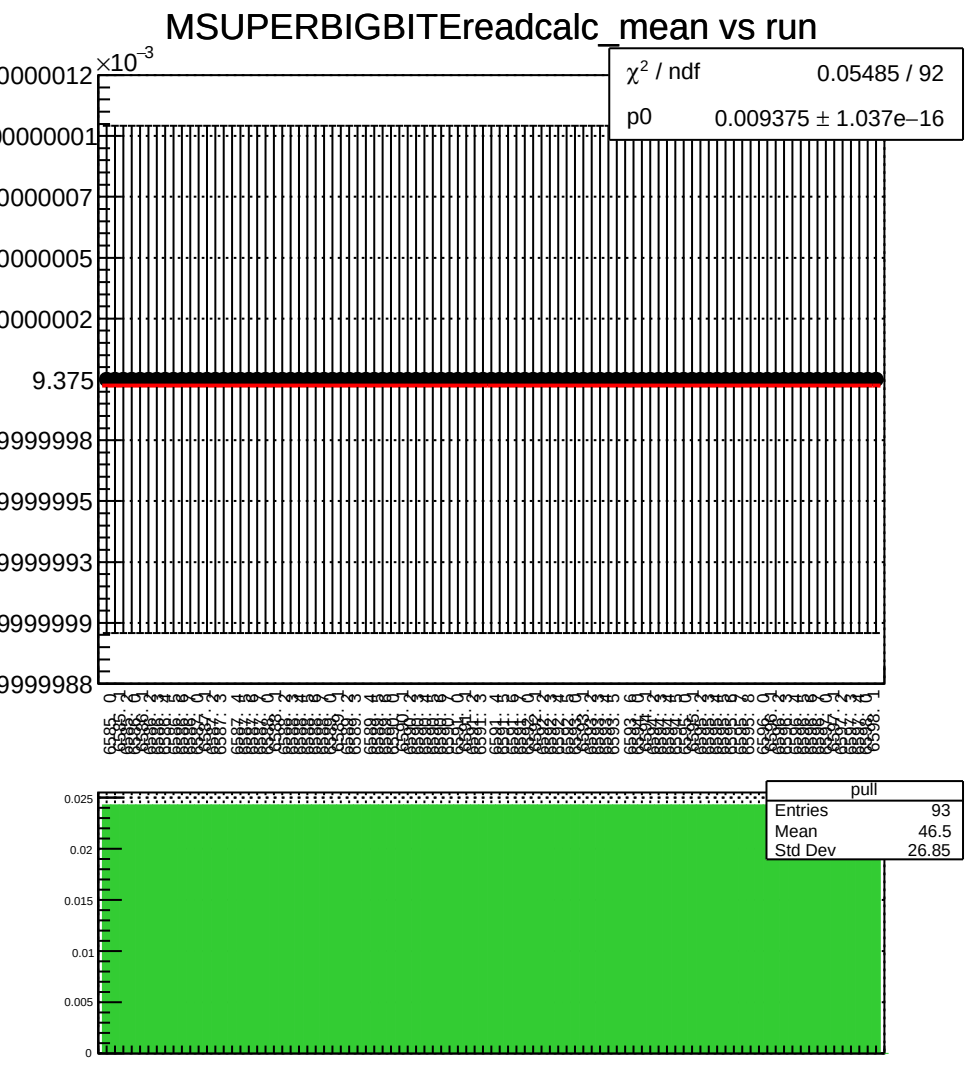

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.857e+25 / 92
p0 762.5 ± 1.037e−16
762.4875
762.487
762.4865
762.486
762.4855
762.485
762.4845
762.484
pull
Entries 93
Mean −2.932e+09
Std Dev 0
×10⁹
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

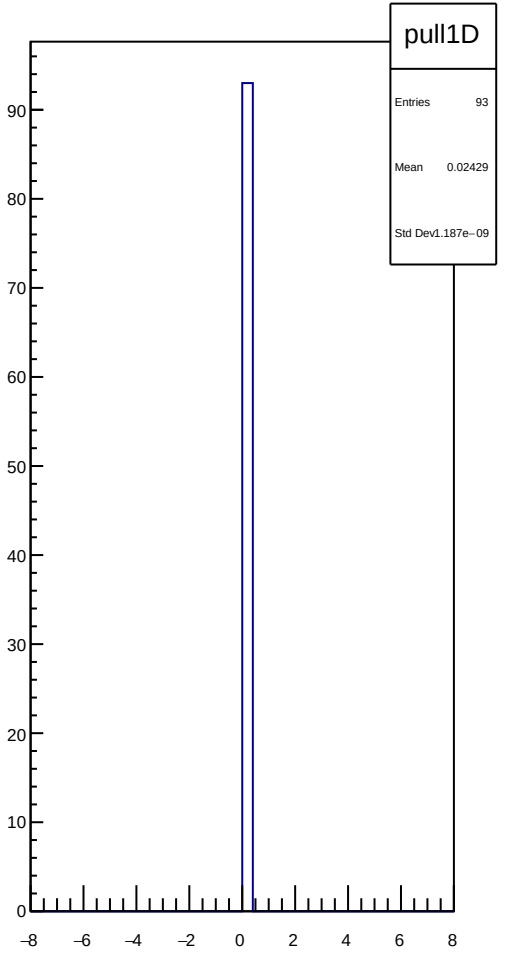

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.17e+27 / 92
p0 977.7 ± 1.037e−16
977.752
977.75
977.748
977.746
977.744
977.742
977.74
977.738
977.736
pull
Entries 93
Mean −1.774e+09
Std Dev 0
×10¹²
14
12
10
8
6
4
2
0
−2

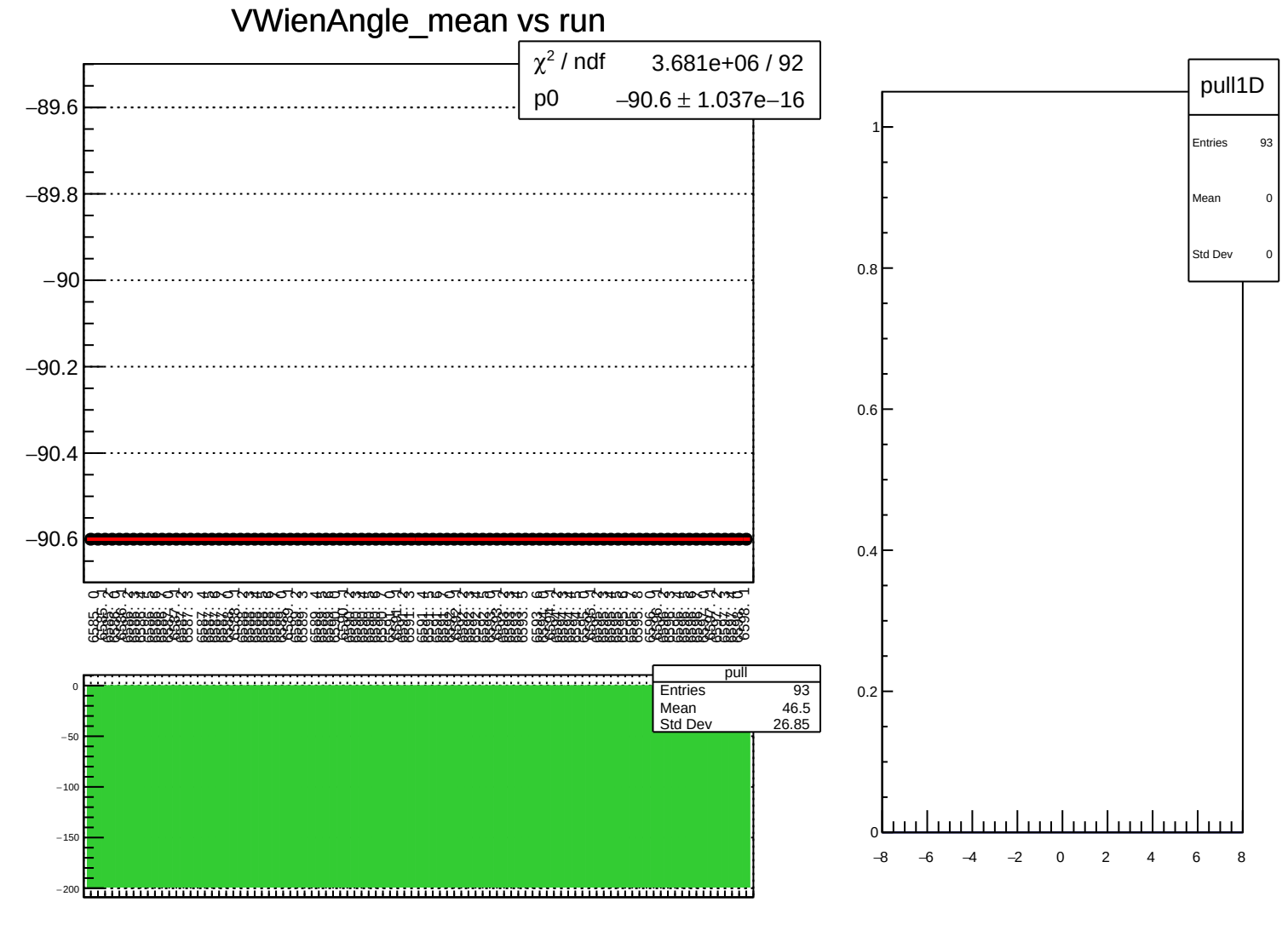

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

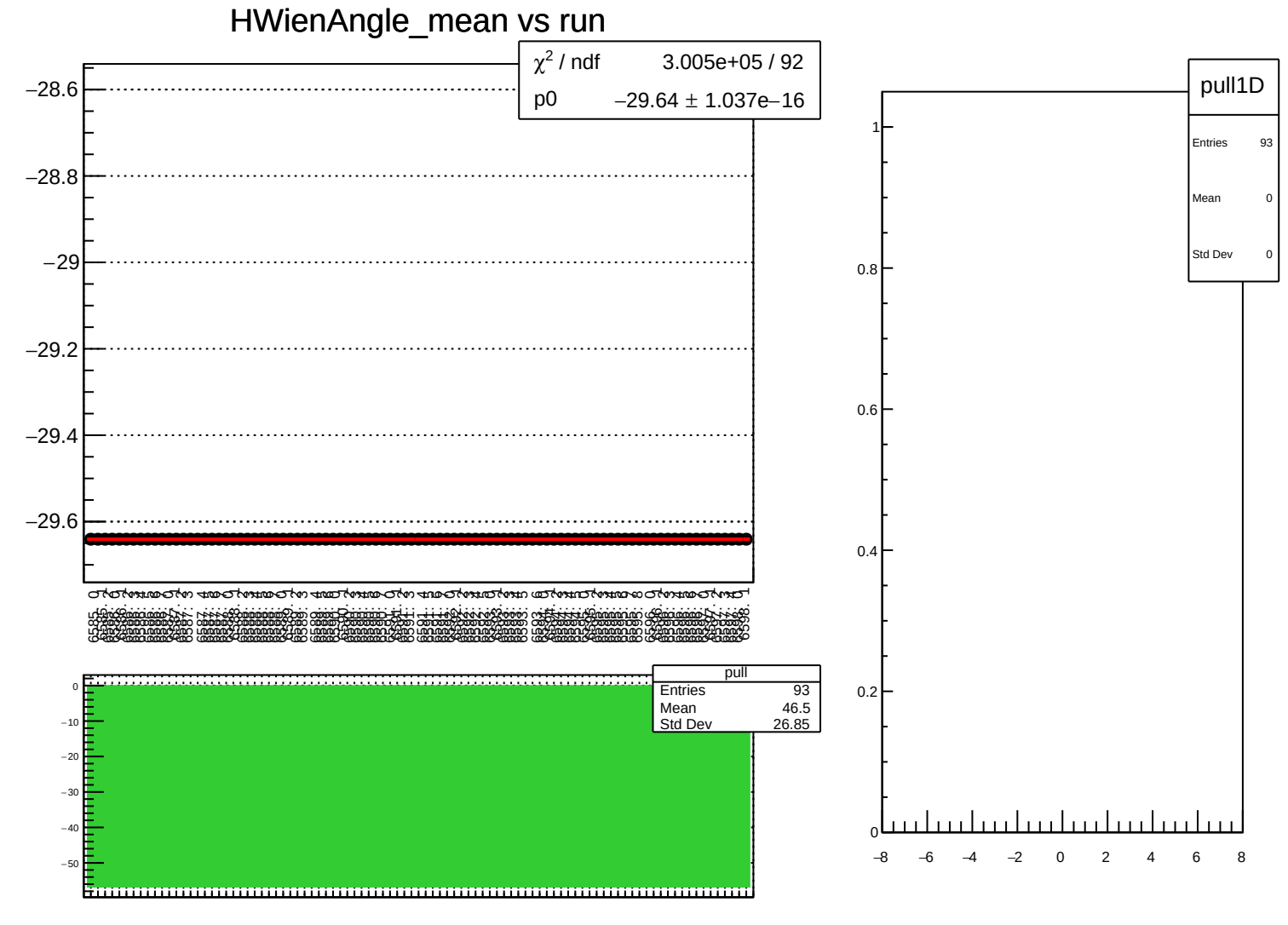

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
pull
Entries 93
Mean 46.5
Std Dev 26.85

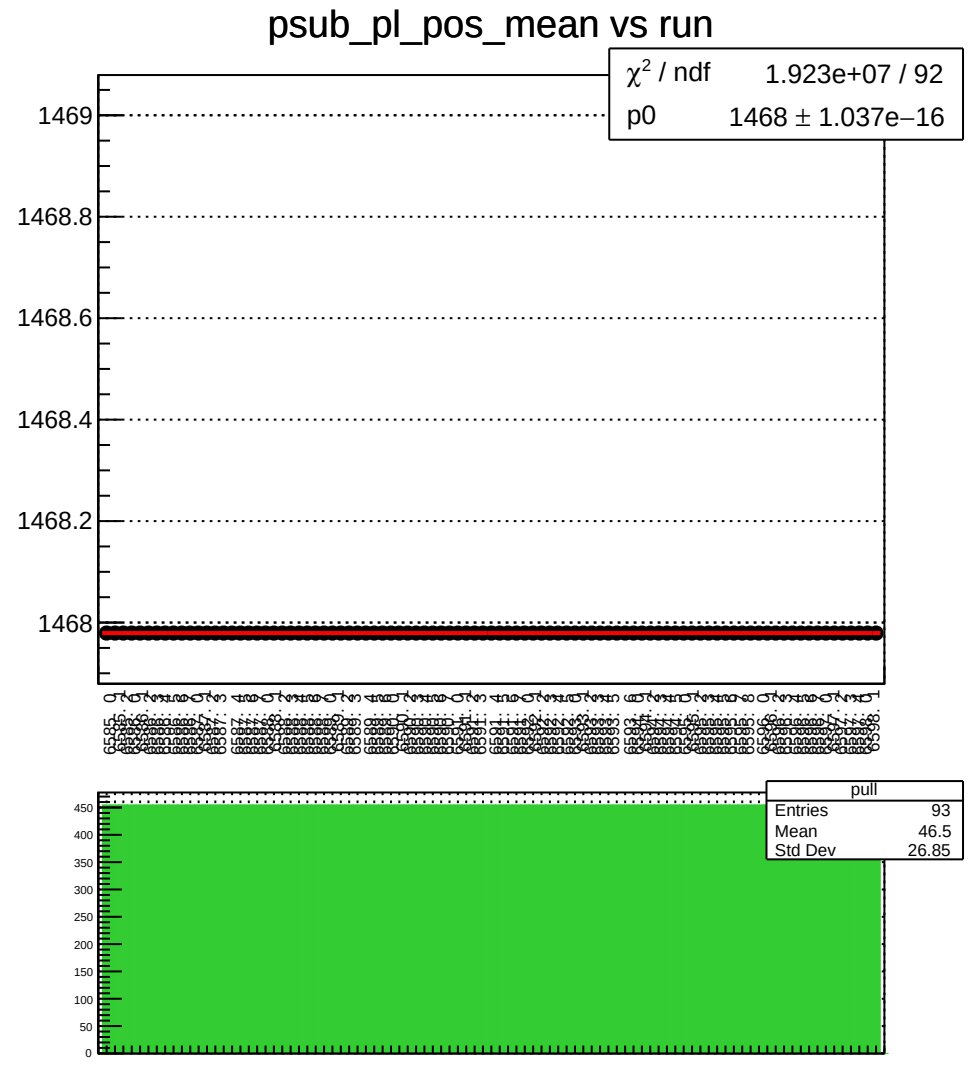

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

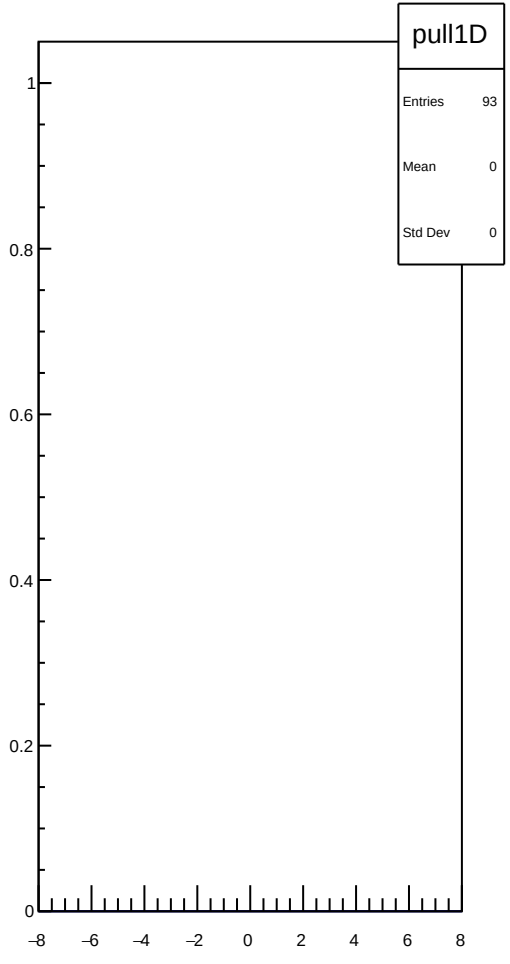

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
pull
Entries 93
Mean 46.5
Std Dev 26.85

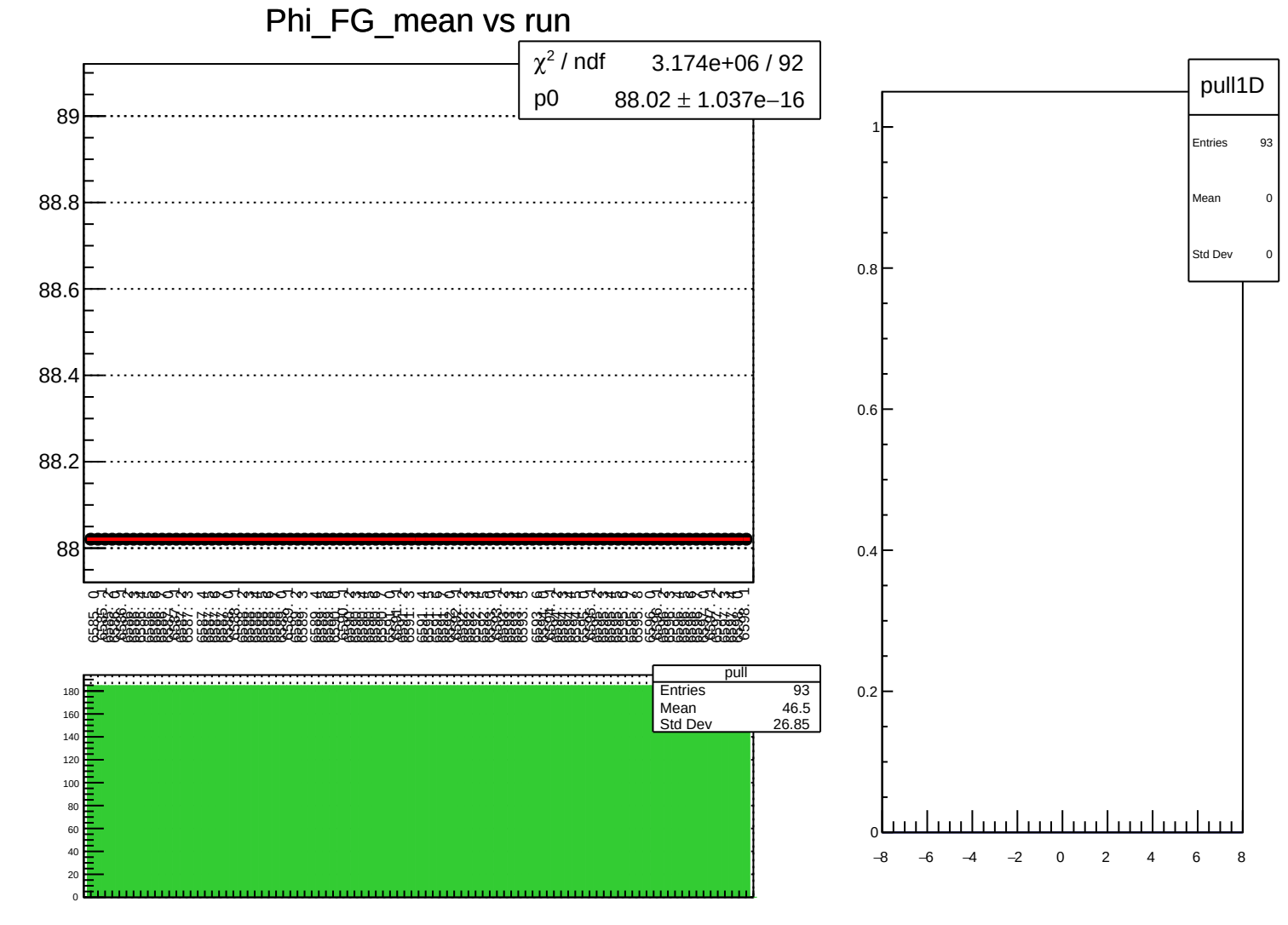

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

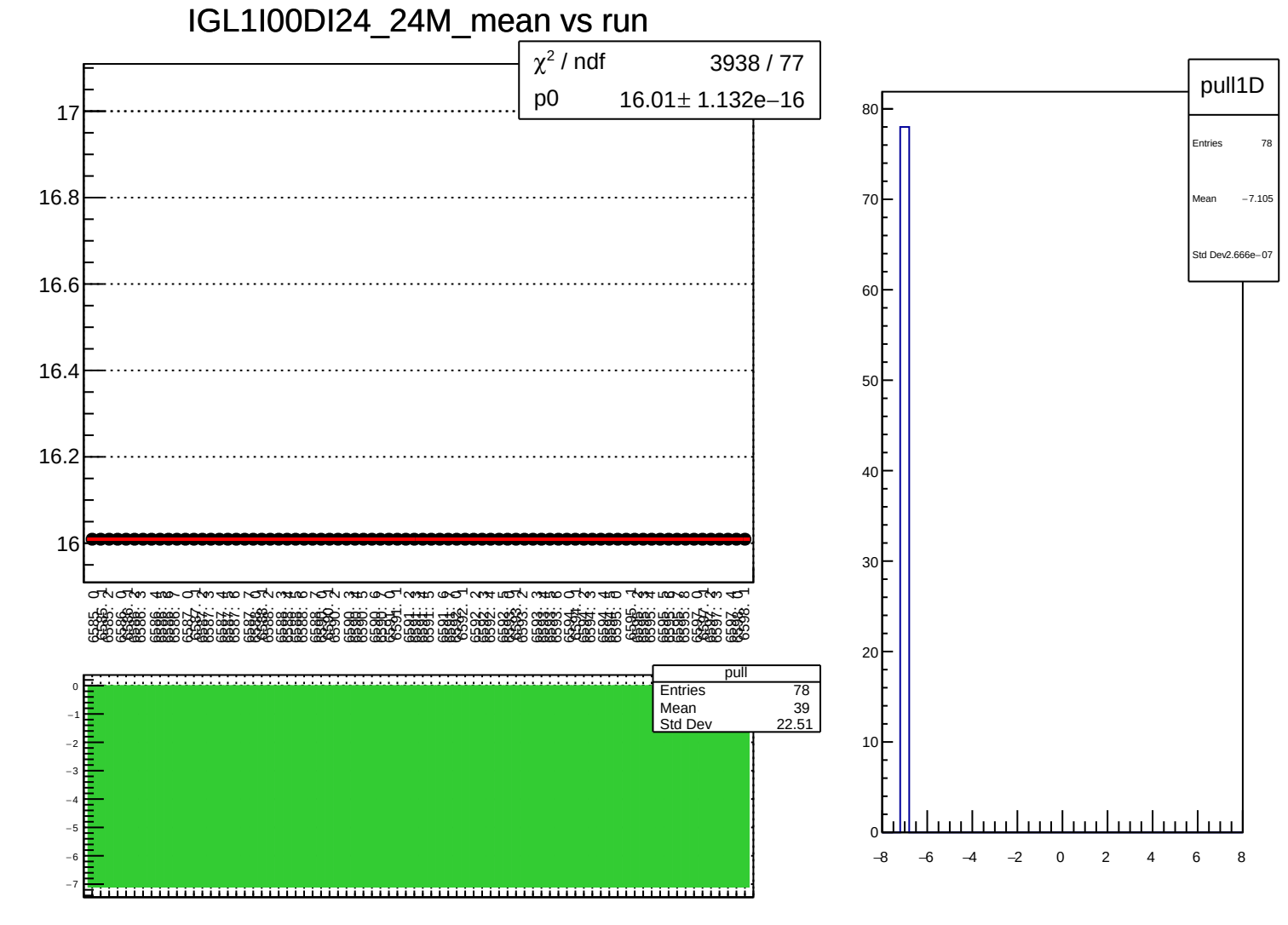

VWienAngle_mean vs run
χ² / ndf 3.681e+06 / 92
p0 −90.6 ± 1.037e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−50
−100
−150
−200
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

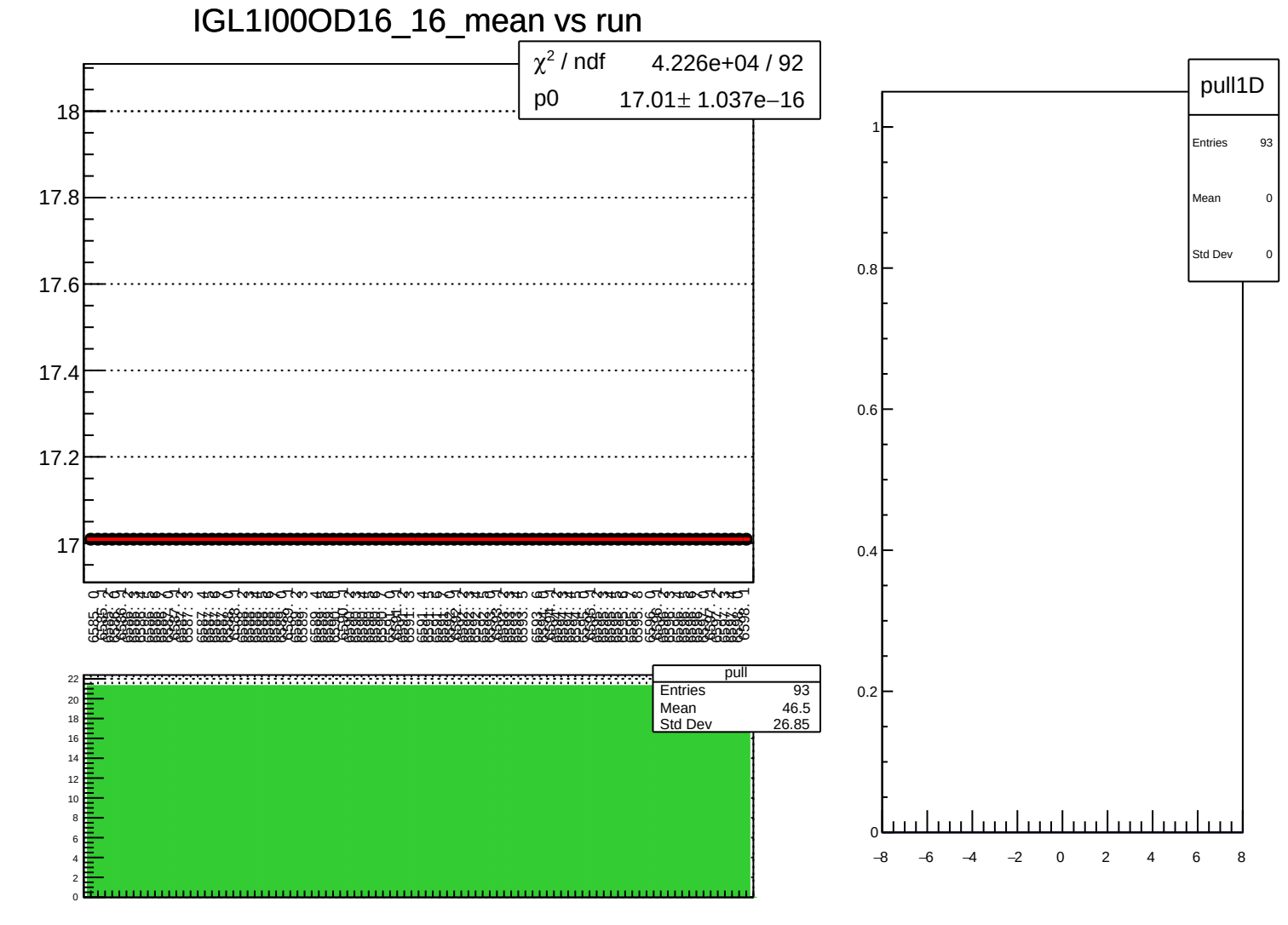

HWienAngle_mean vs run
χ² / ndf 3.005e+05 / 92
p0 −29.64 ± 1.037e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−10
−20
−30
−40
−50
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

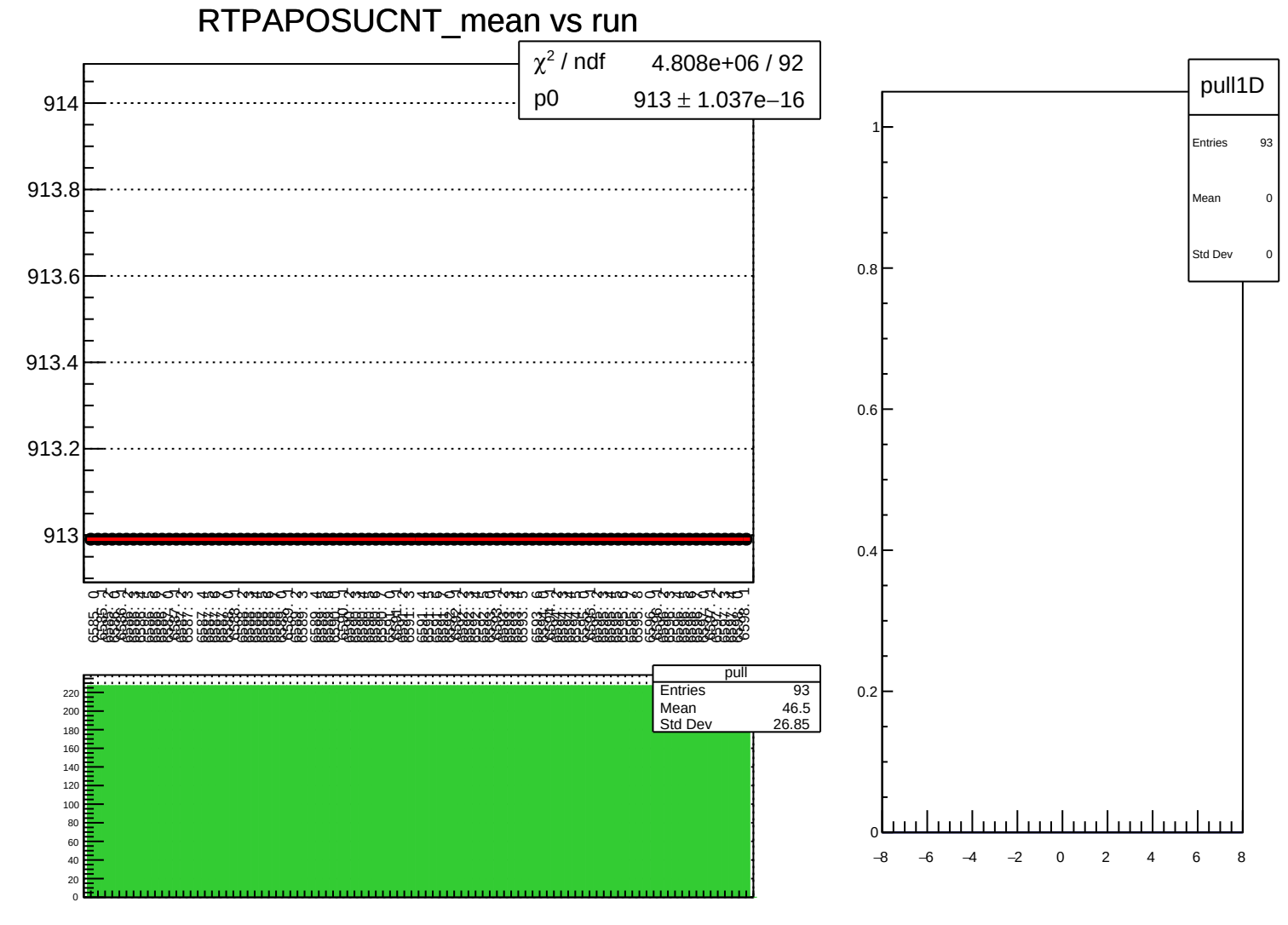

psub_pl_pos_mean vs run
χ² / ndf 1.923e+07 / 92
p0 1468 ± 1.037e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 93
Mean 46.5
Std Dev 26.85
450
400
350
300
250
200
150
100
50
0

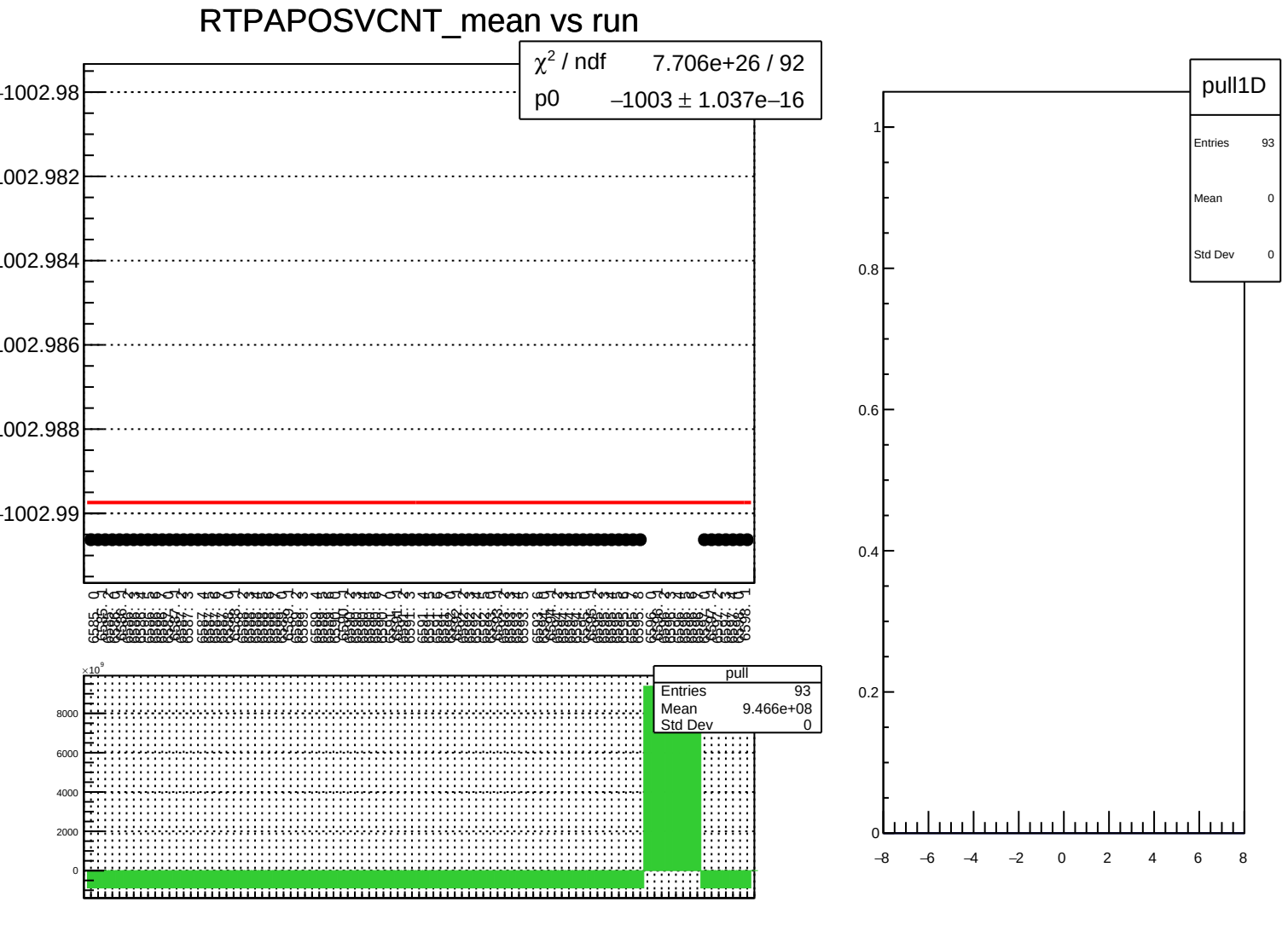

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

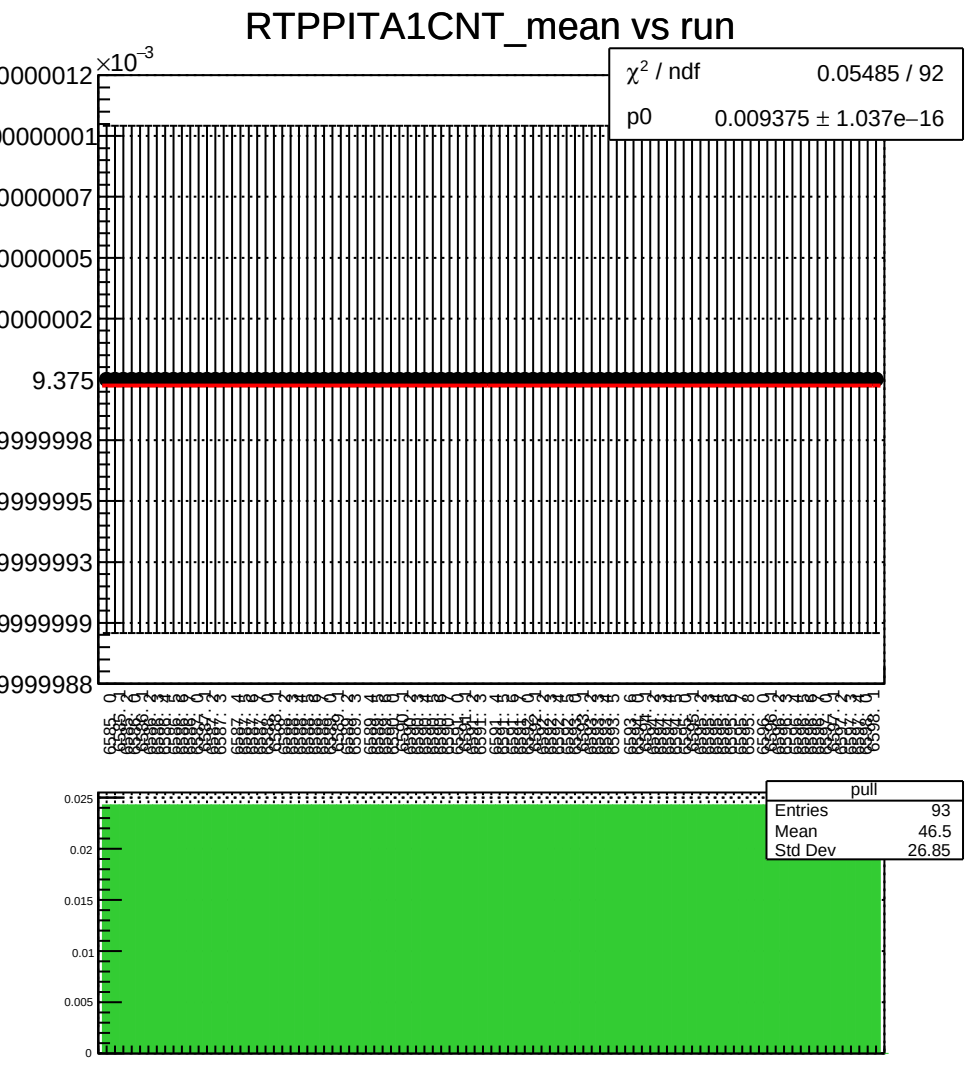

Phi_FG_mean vs run
χ² / ndf 3.174e+06 / 92
p0 88.02 ± 1.037e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 93
Mean 46.5
Std Dev 26.85
180
160
140
120
100
80
60
40
20
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

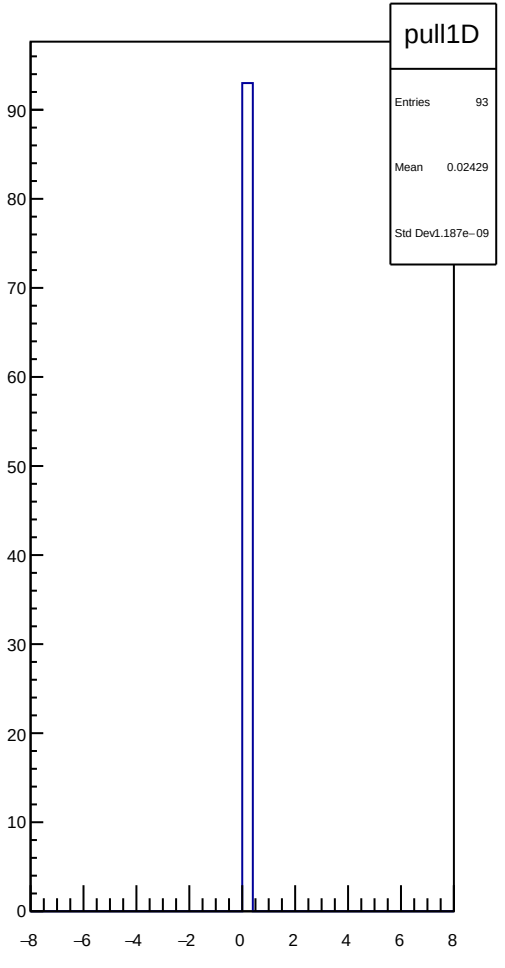

IGL1I00DI24_24M_mean vs run
χ² / ndf 3938 / 77
p0 16.01± 1.132e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 78
Mean 39
Std Dev 22.51
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 78
Mean −7.105
Std Dev 2.666e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

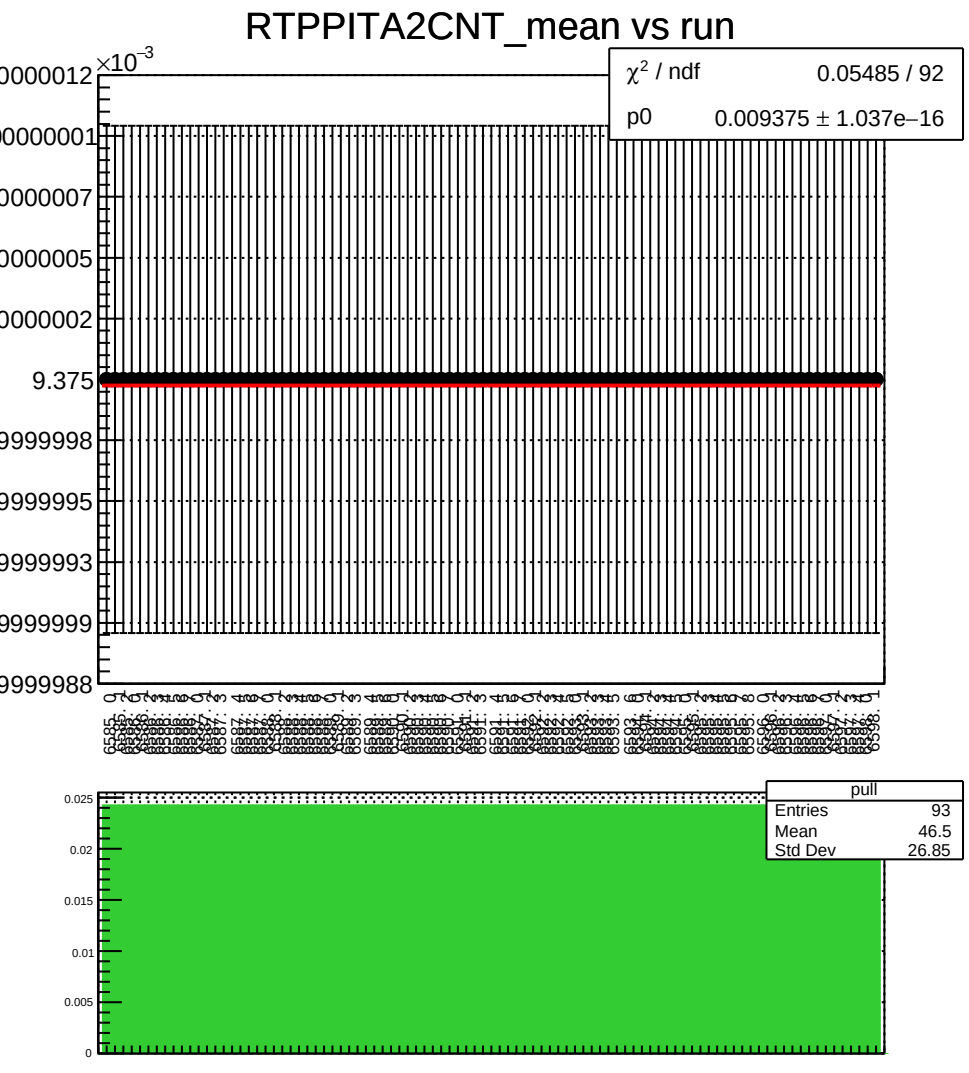

IGL1I00OD16_16_mean vs run
χ² / ndf 4.226e+04 / 92
p0 17.01± 1.037e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 93
Mean 46.5
Std Dev 26.85
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

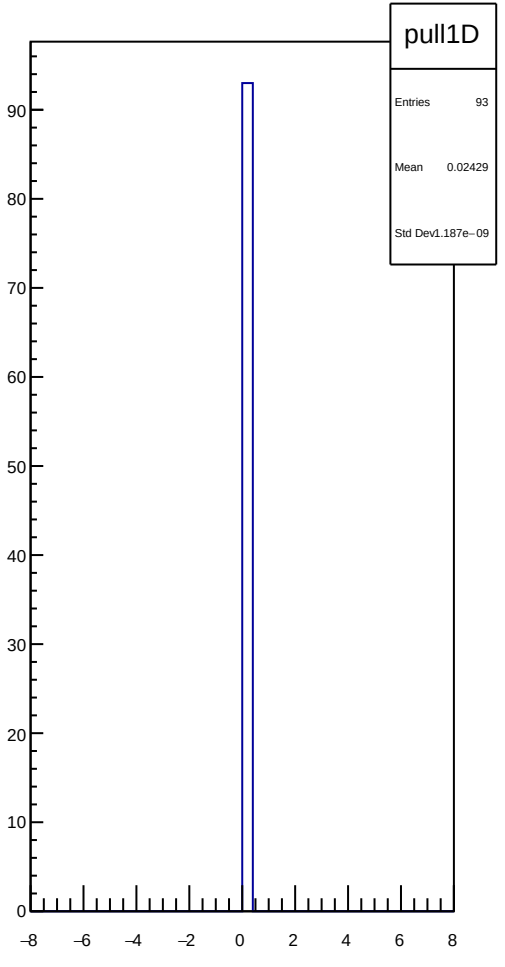

RTPAPOSUCNT_mean vs run
χ² / ndf 4.808e+06 / 92
p0 913 ± 1.037e−16
914
913.8
913.6
913.4
913.2
913
pull
Entries 93
Mean 46.5
Std Dev 26.85
220
200
180
160
140
120
100
80
60
40
20
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 7.706e+26 / 92
p0 −1003 ± 1.037e−16
−1002.98
−1002.982
−1002.984
−1002.986
−1002.988
−1002.99
pull
Entries 93
Mean 9.466e+08
Std Dev 0
×10⁹
8000
6000
4000
2000
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
9.375
pull
Entries 93
Mean 46.5
Std Dev 26.85


pull1D
Entries 93
Mean 0.02429
Std Dev 1.187e−09


RTPPITA2CNT_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85


pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09