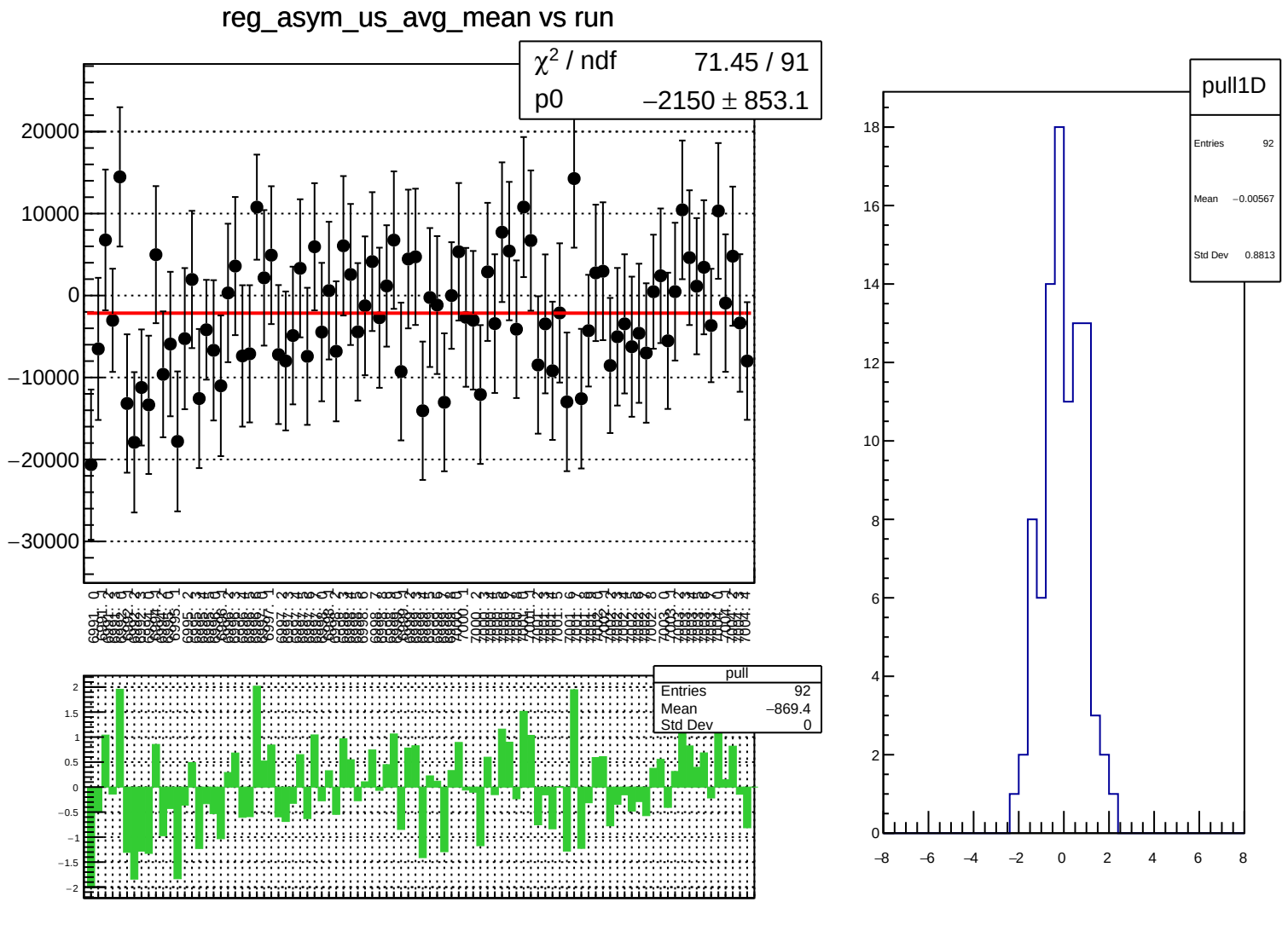
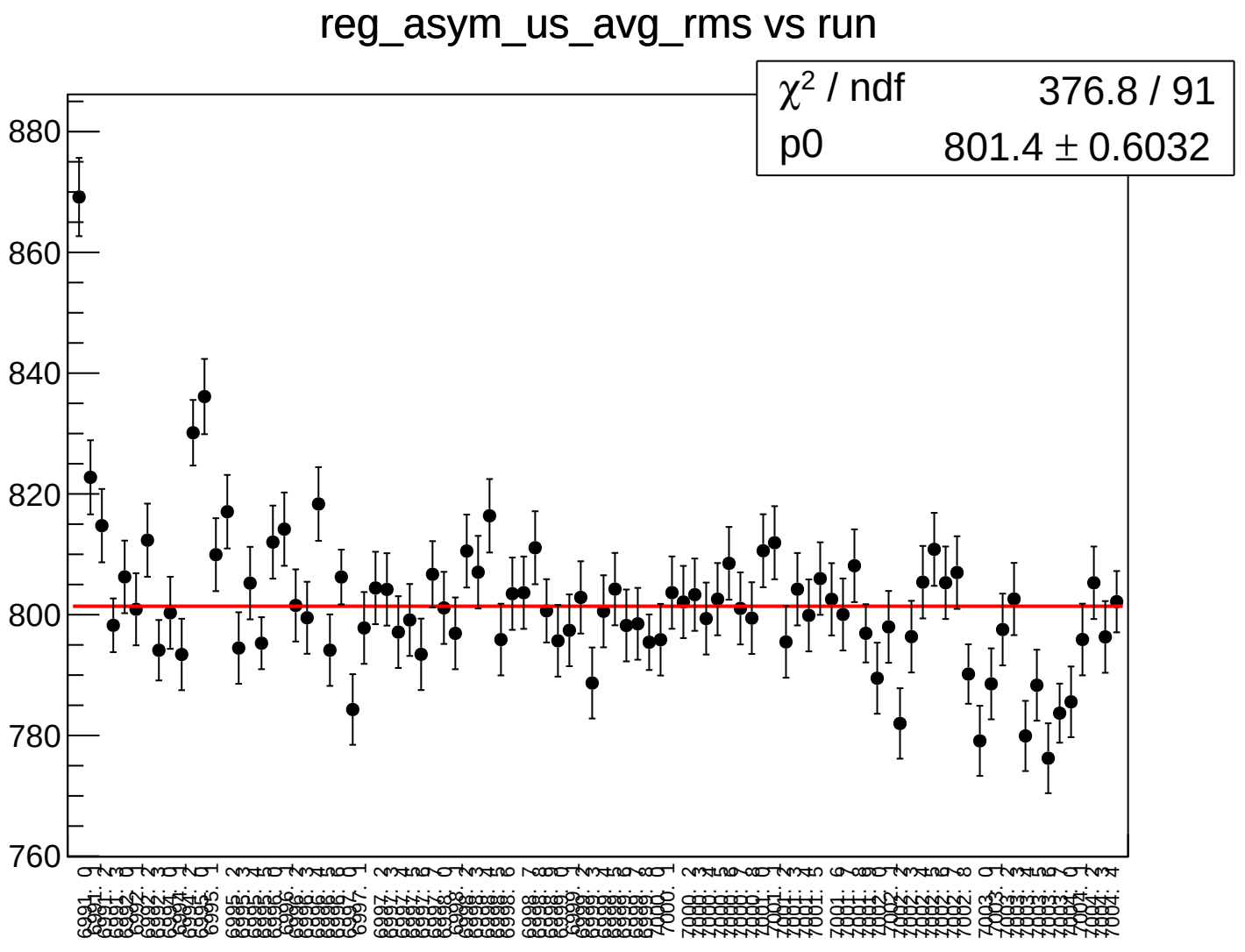
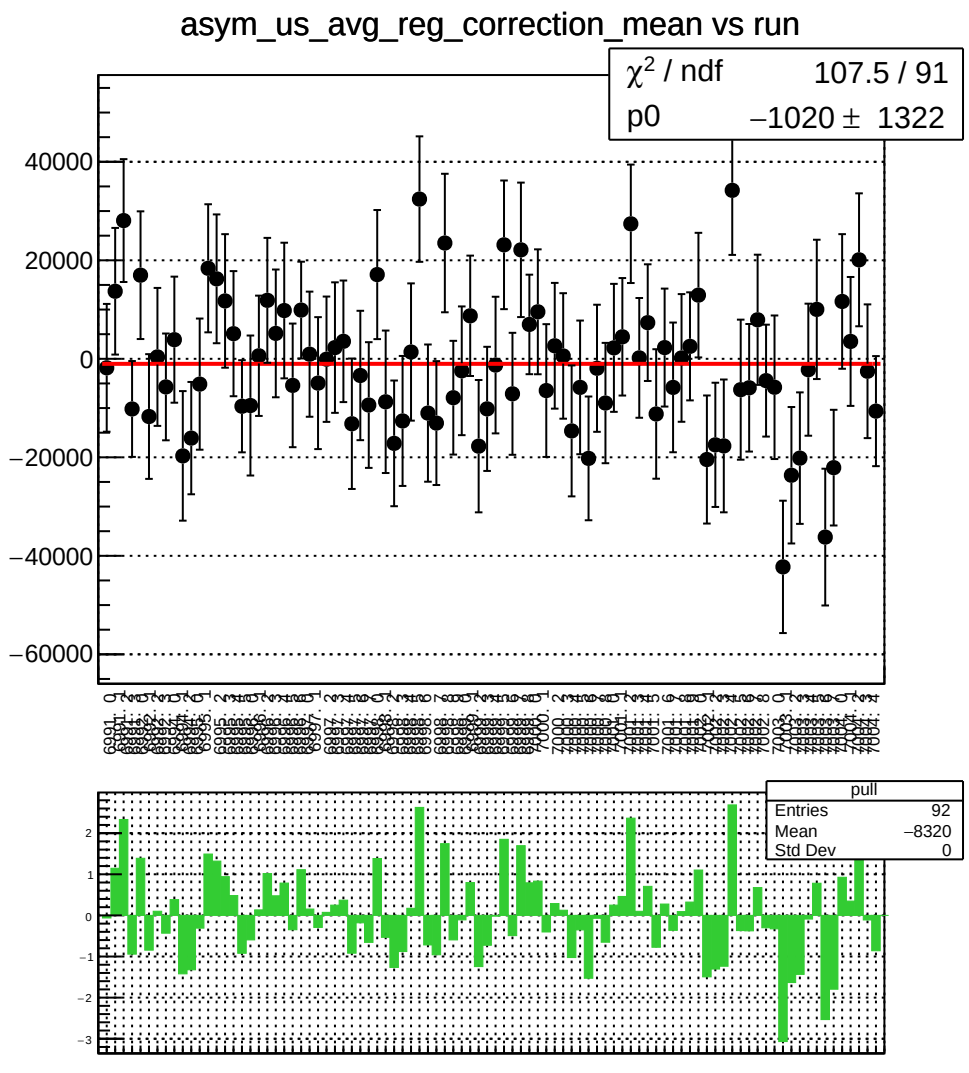
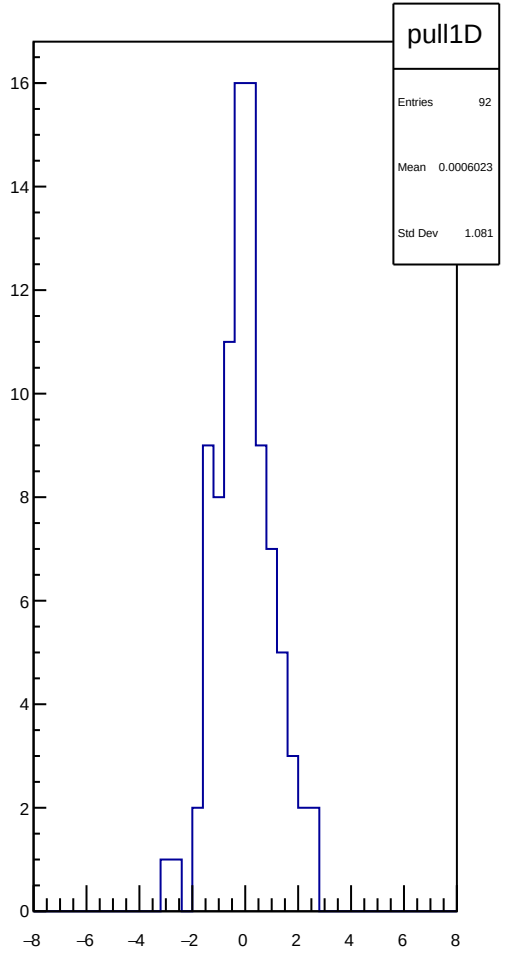
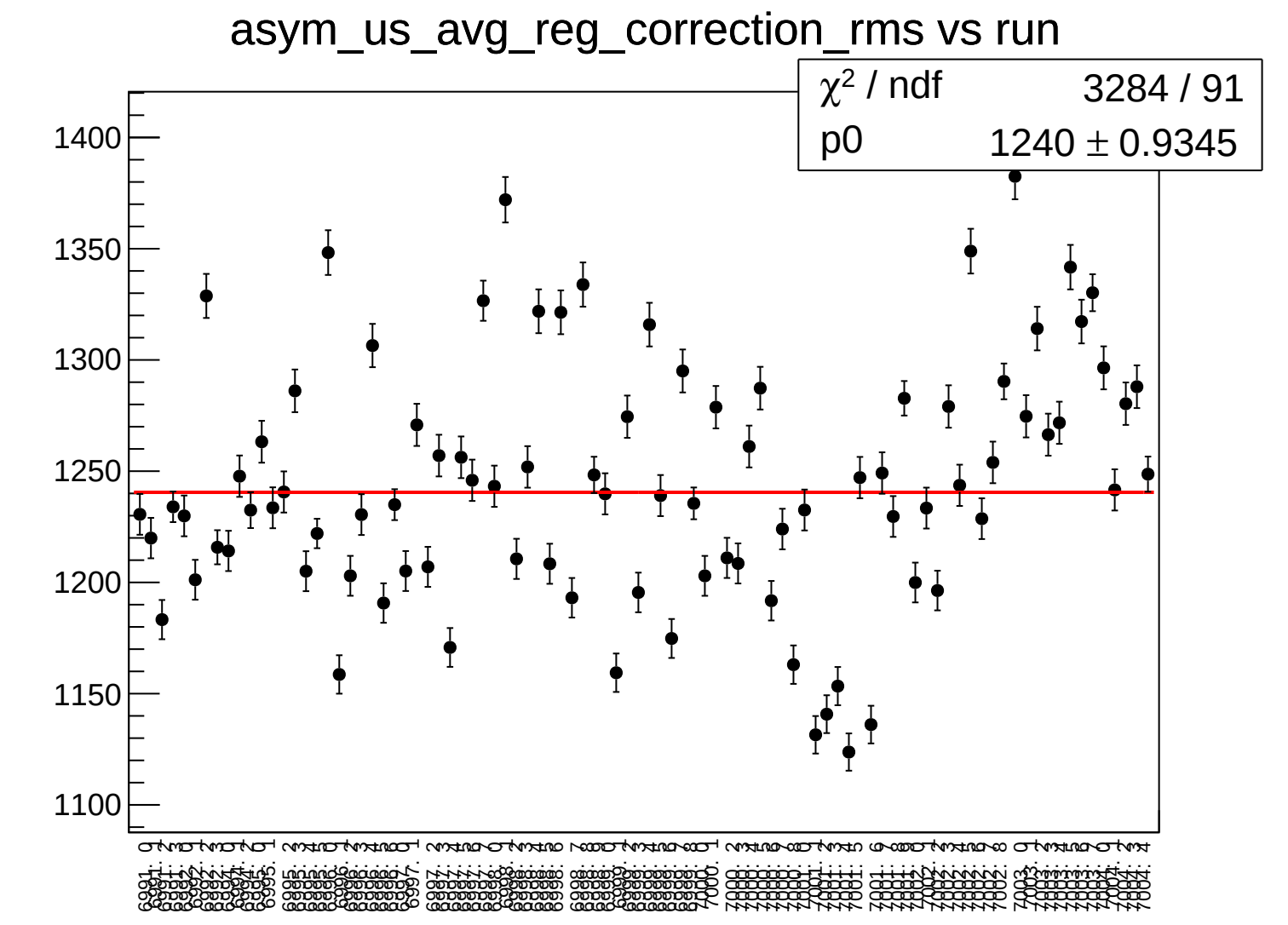
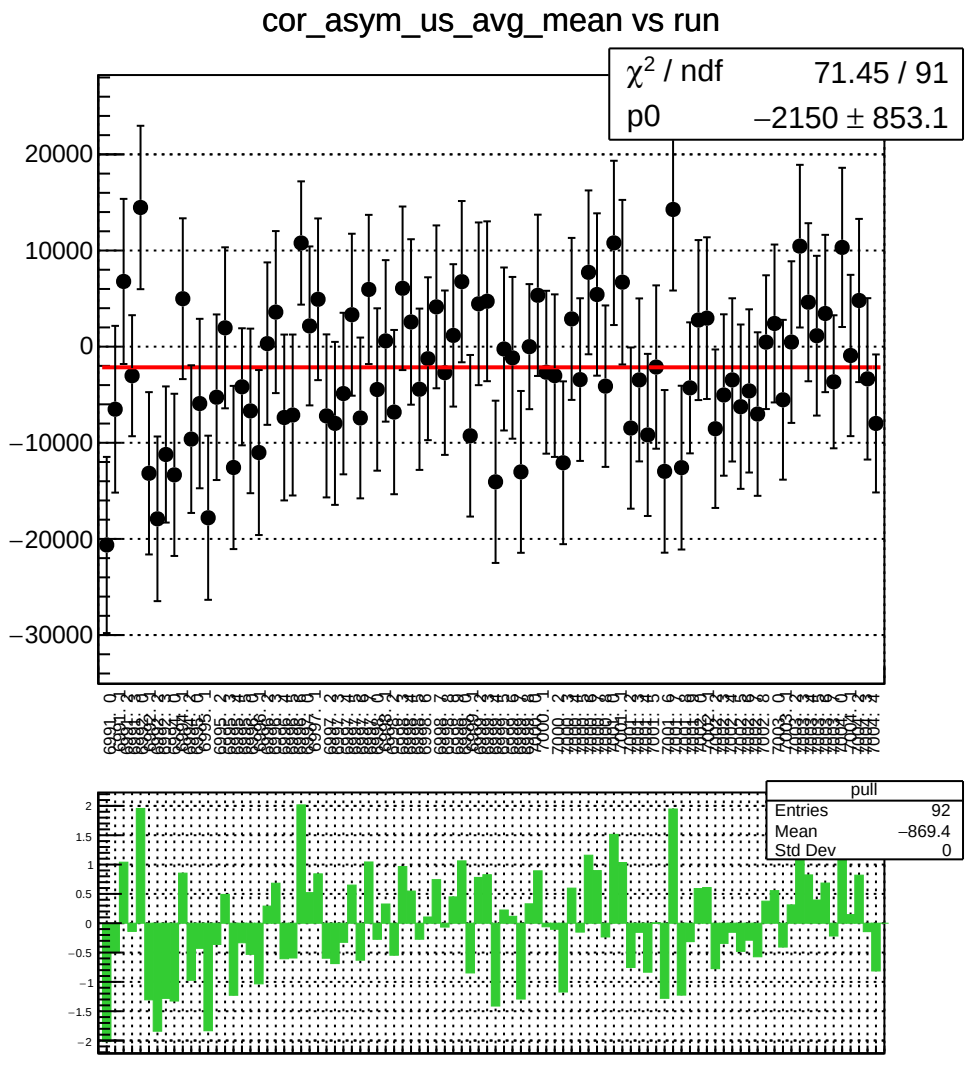

reg_asym_us_avg_mean vs run
χ² / ndf 71.45 / 91
p0 −2150 ± 853.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −869.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.00567
Std Dev 0.8813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

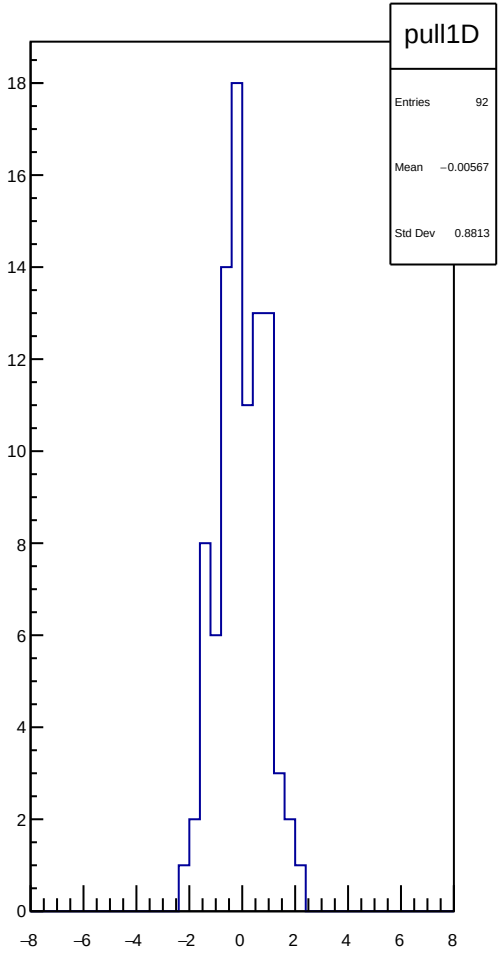

reg_asym_us_avg_rms vs run
χ^2 / ndf 376.8 / 91
p0 801.4 ± 0.6032
880
860
840
820
800
780
760

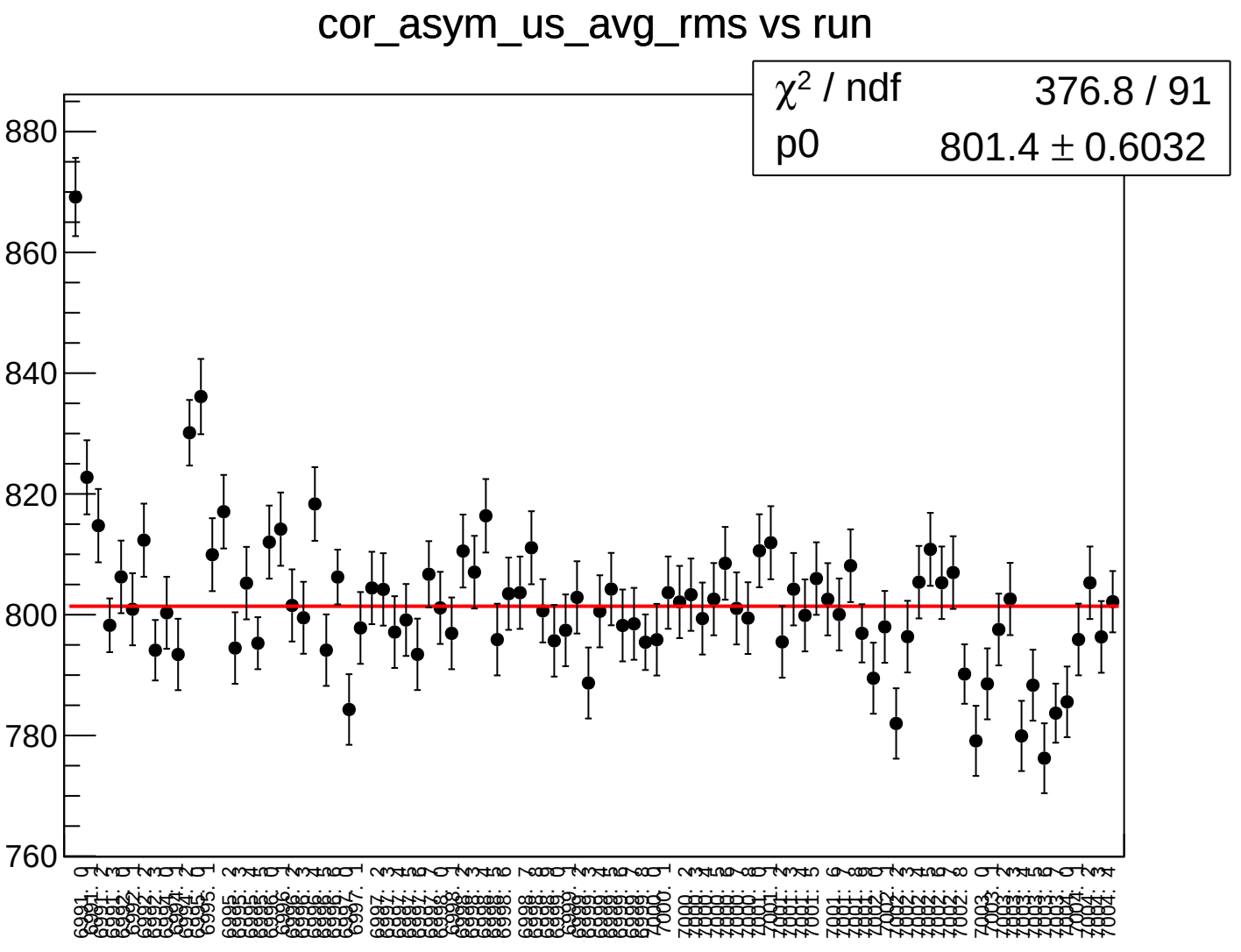

asym_us_avg_reg_correction_mean vs run
χ² / ndf 107.5 / 91
p0 −1020 ± 1322
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −8320
Std Dev 0
2
1
0
−1
−2
−3

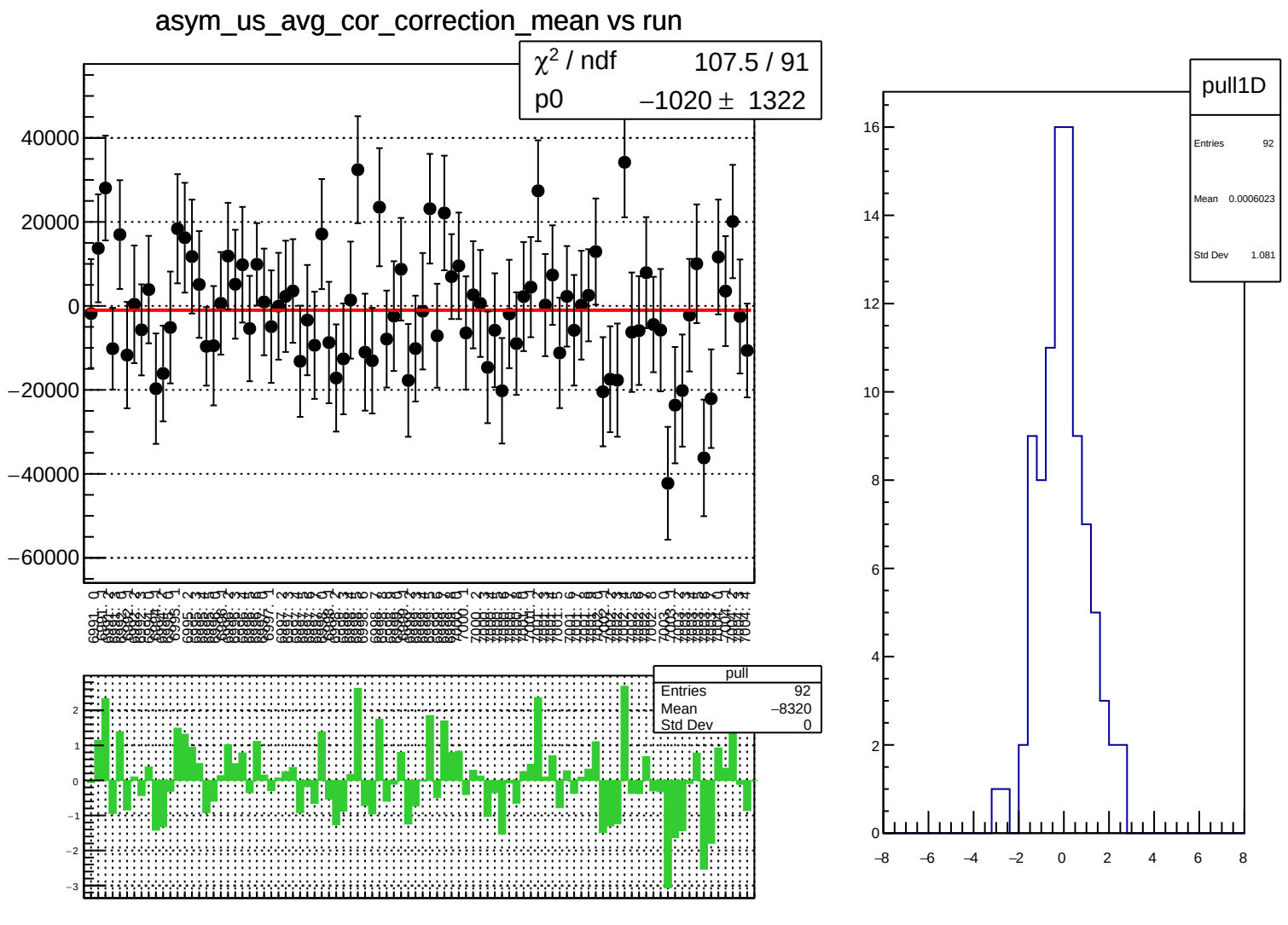

pull1D
Entries 92
Mean 0.0006023
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

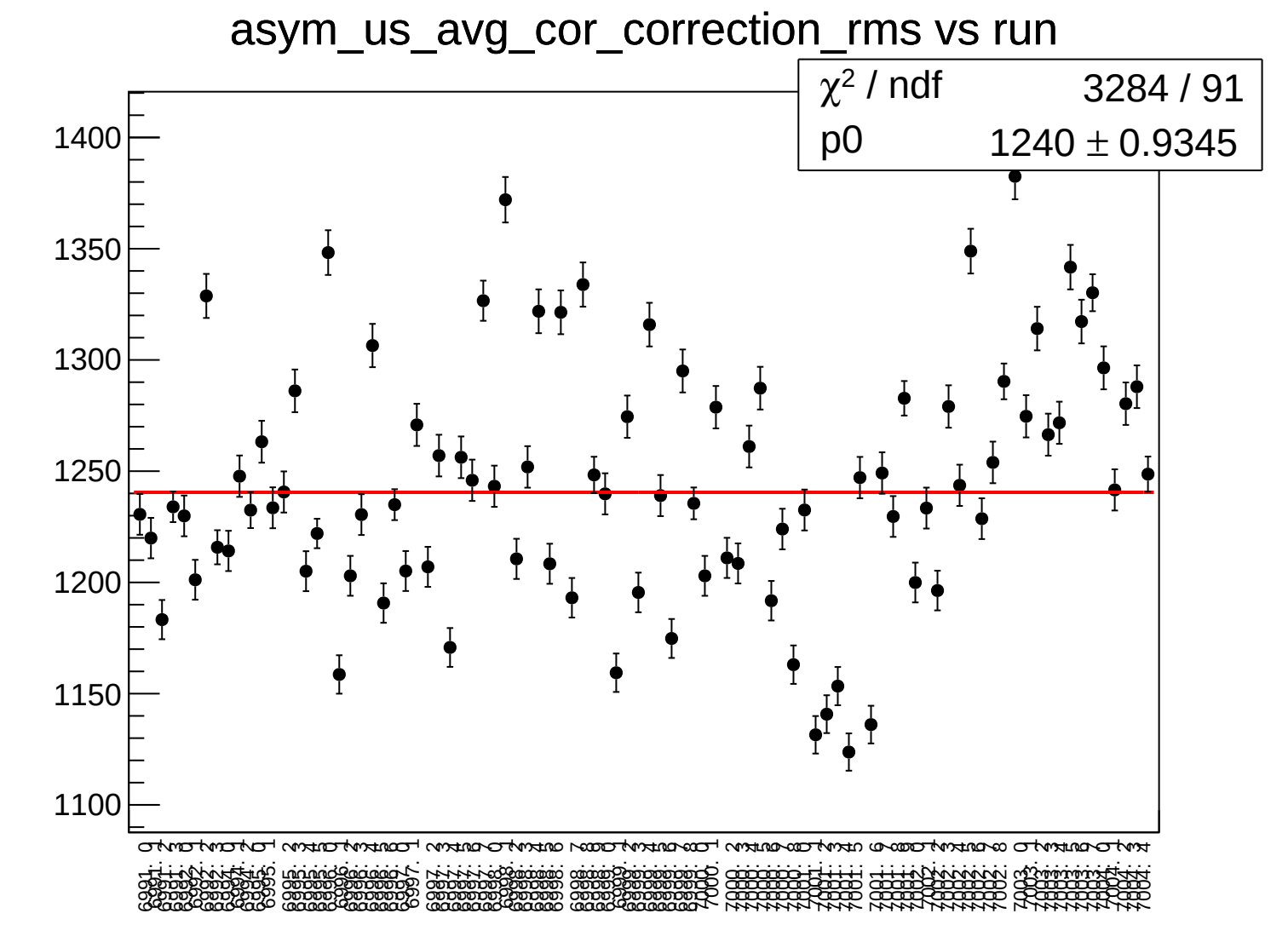

asym_us_avg_reg_correction_rms vs run
χ² / ndf 3284 / 91
p0 1240 ± 0.9345
1400
1350
1300
1250
1200
1150
1100

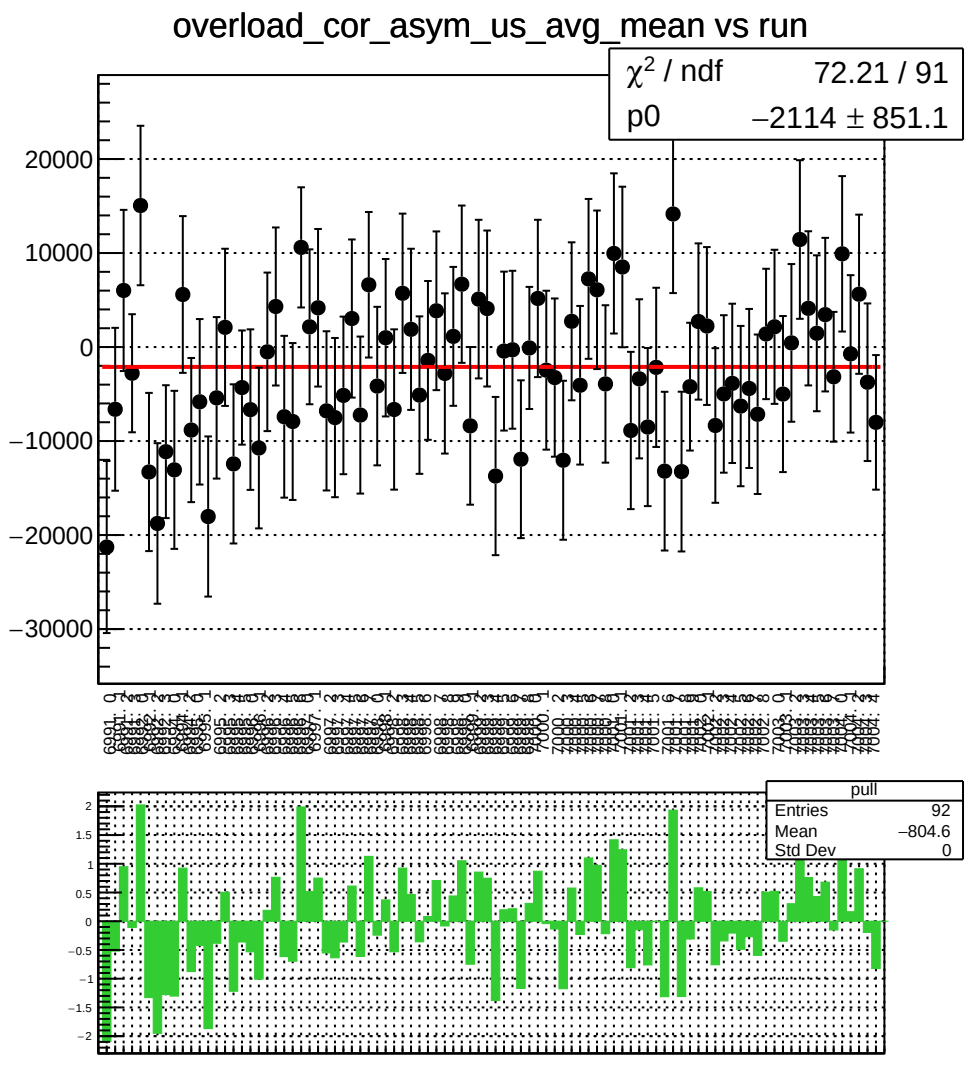

cor_asym_us_avg_mean vs run
χ² / ndf 71.45 / 91
p0 −2150 ± 853.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −869.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

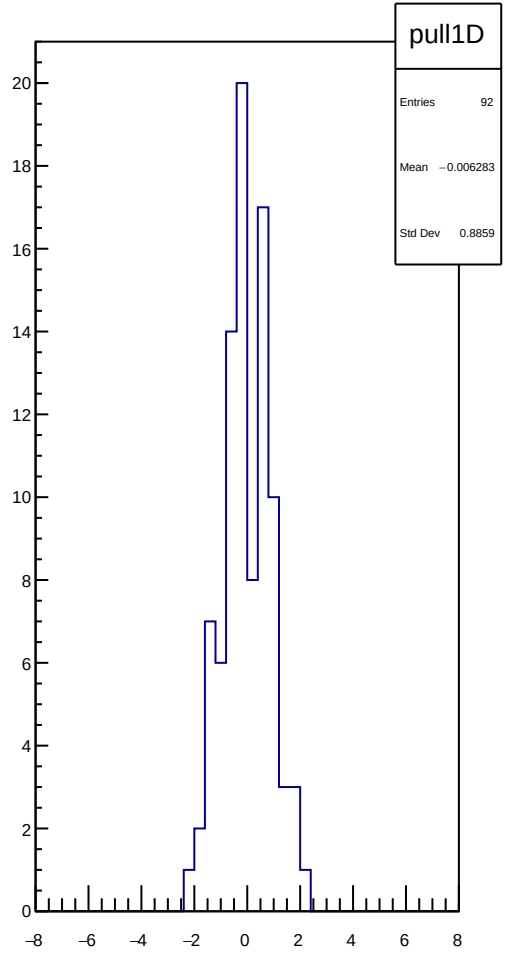

pull1D
Entries 92
Mean −0.00567
Std Dev 0.8813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

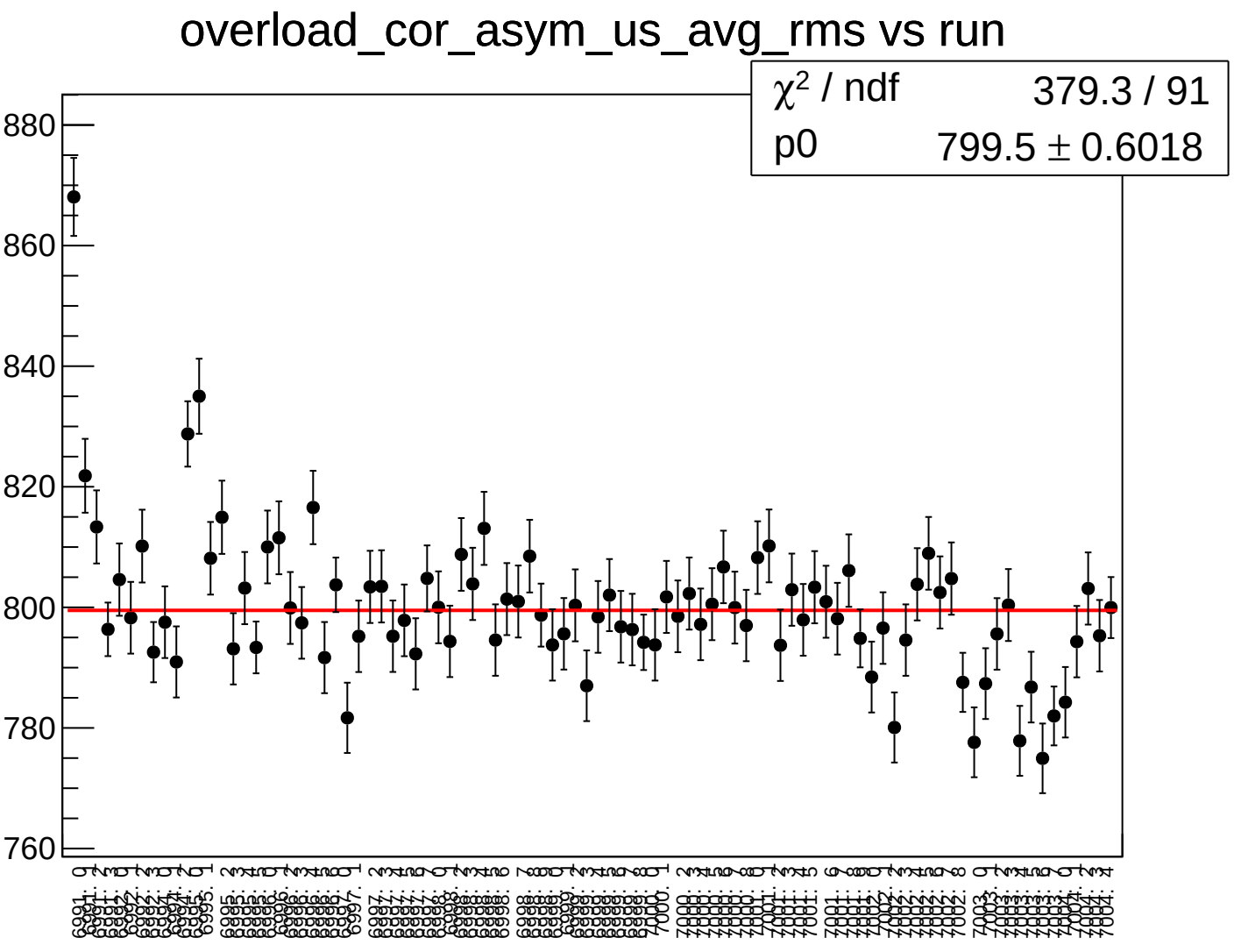

cor_asym_us_avg_rms vs run
χ² / ndf 376.8 / 91
p0 801.4 ± 0.6032
880
860
840
820
800
780
760

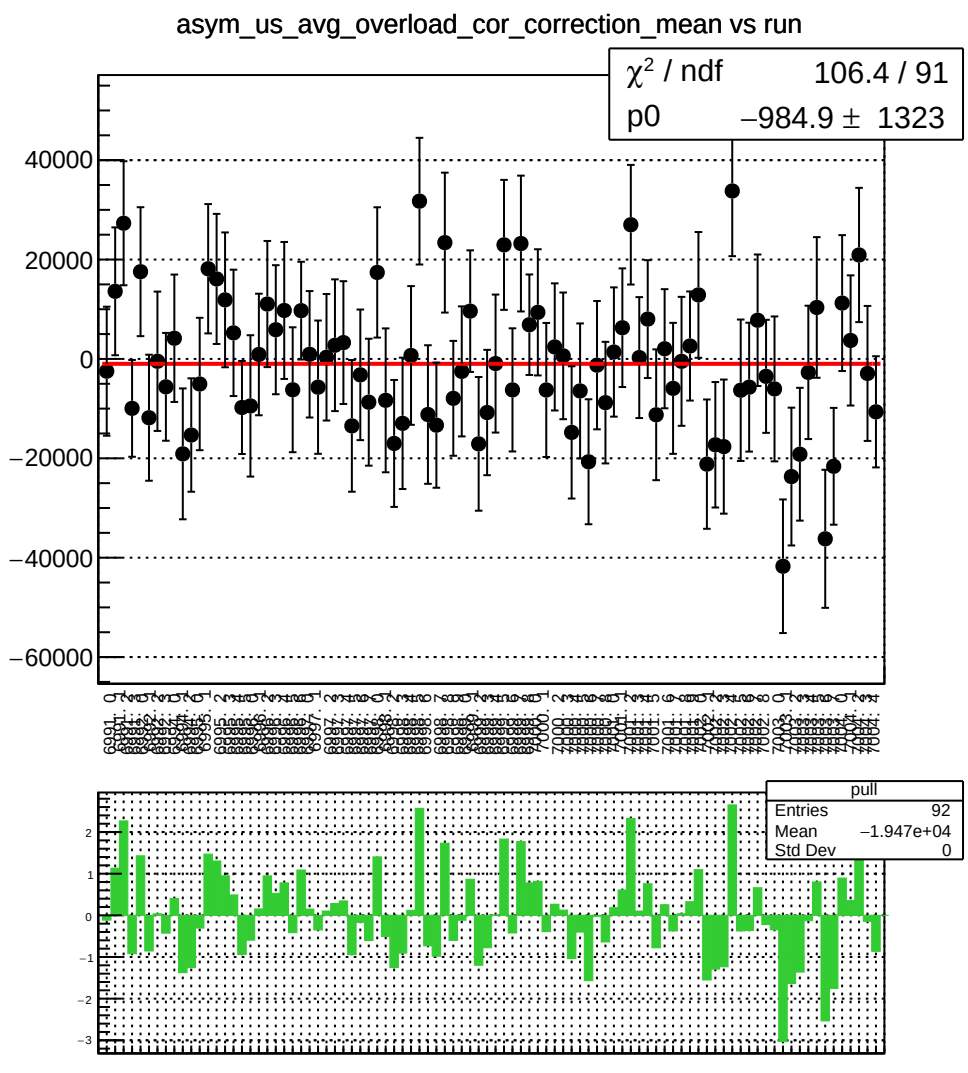

asym_us_avg_cor_correction_mean vs run
χ² / ndf 107.5 / 91
p0 −1020 ± 1322
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −8320
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0006023
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

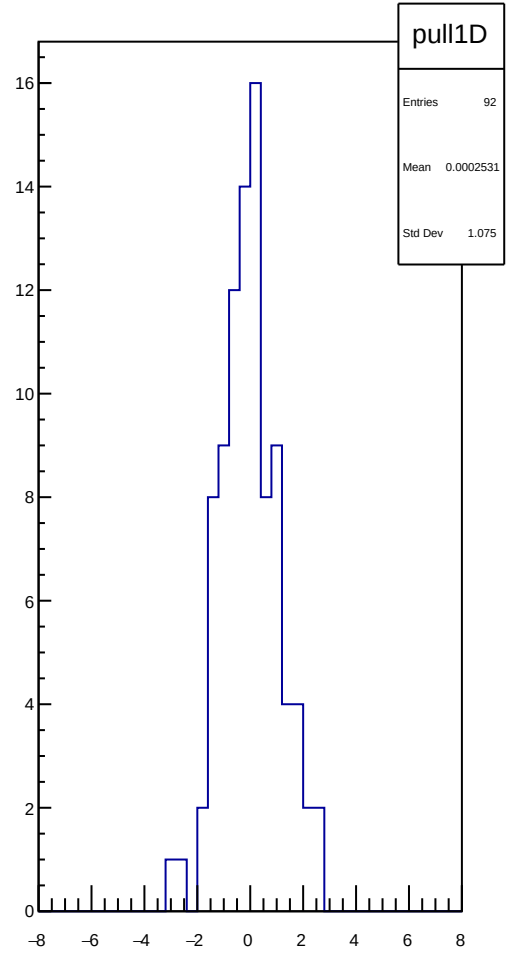

asym_us_avg_cor_correction_rms vs run
χ² / ndf 3284 / 91
p0 1240 ± 0.9345
1400
1350
1300
1250
1200
1150
1100

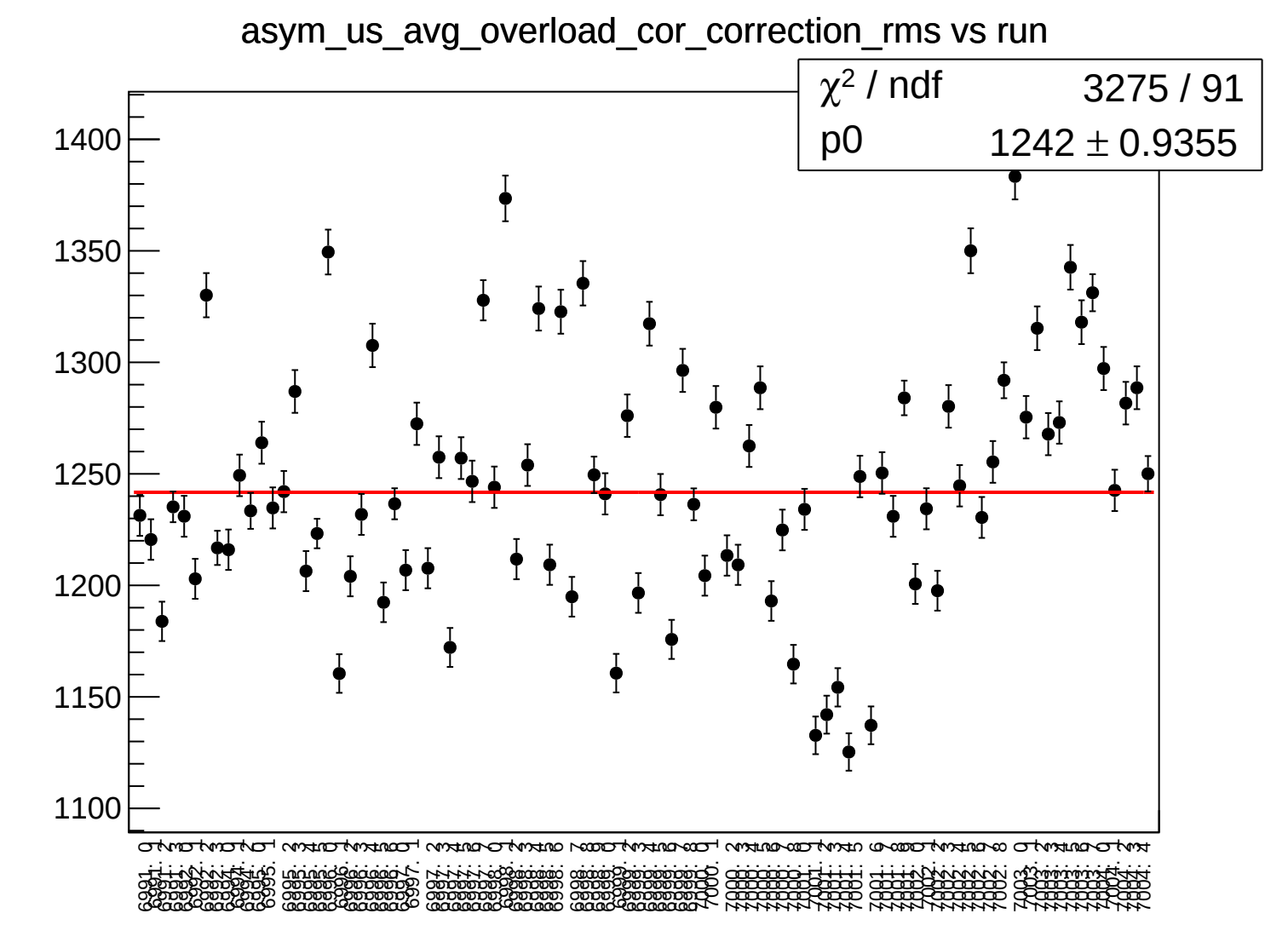

overload_cor_asym_us_avg_mean vs run
χ² / ndf 72.21 / 91
p0 −2114 ± 851.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −804.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

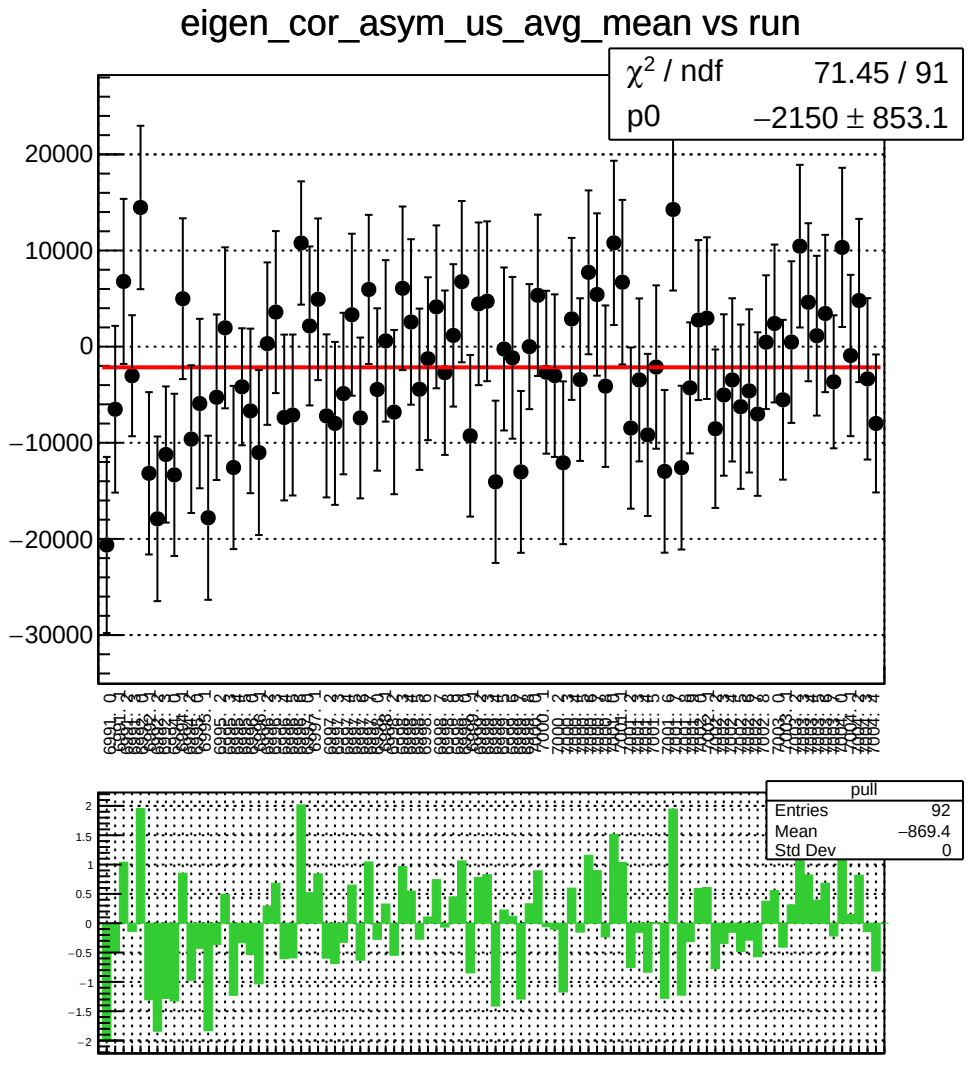

pull1D
Entries 92
Mean −0.006283
Std Dev 0.8859
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

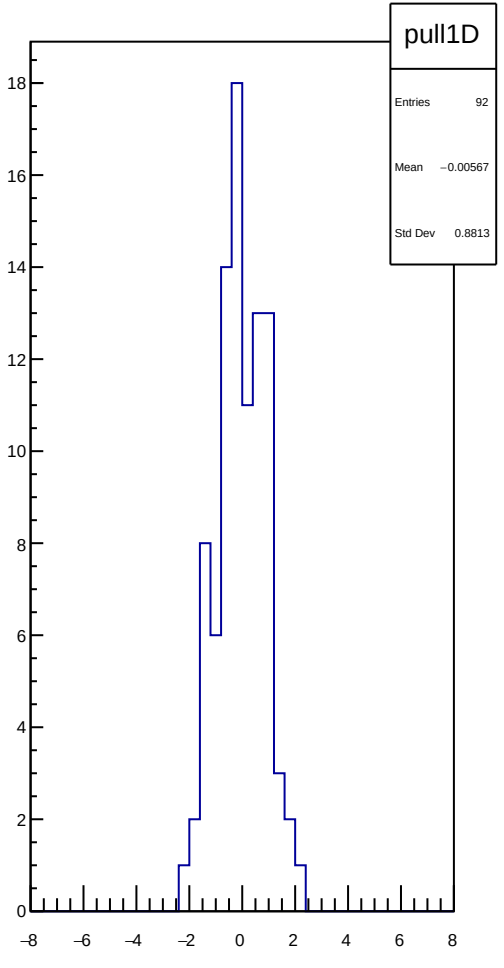

overload_cor_asym_us_avg_rms vs run
χ² / ndf 379.3 / 91
p0 799.5 ± 0.6018
880
860
840
820
800
780
760

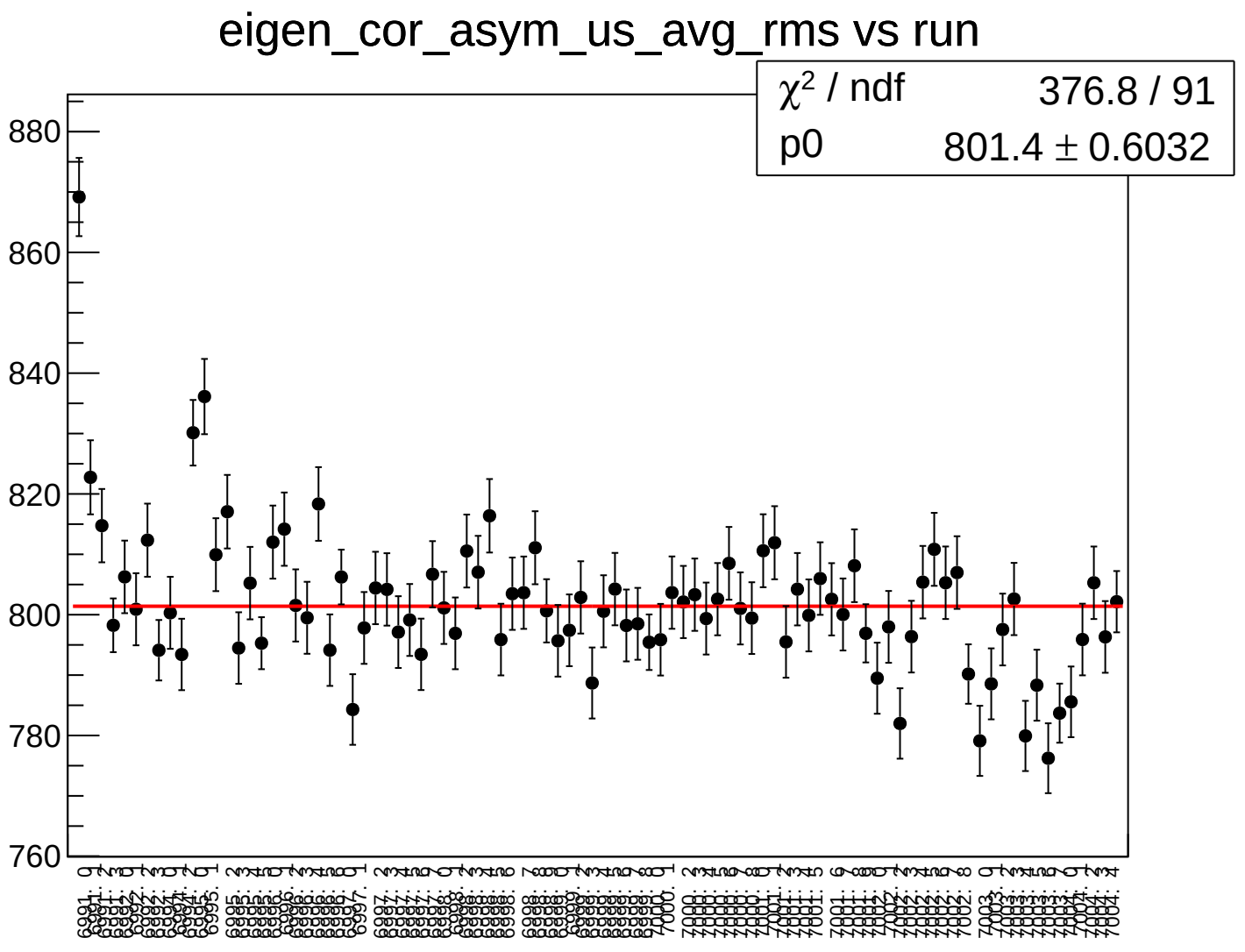

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 106.4 / 91
p0 −984.9 ± 1323
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1.947e+04
Std Dev 0
2
1
0
−1
−2
−3

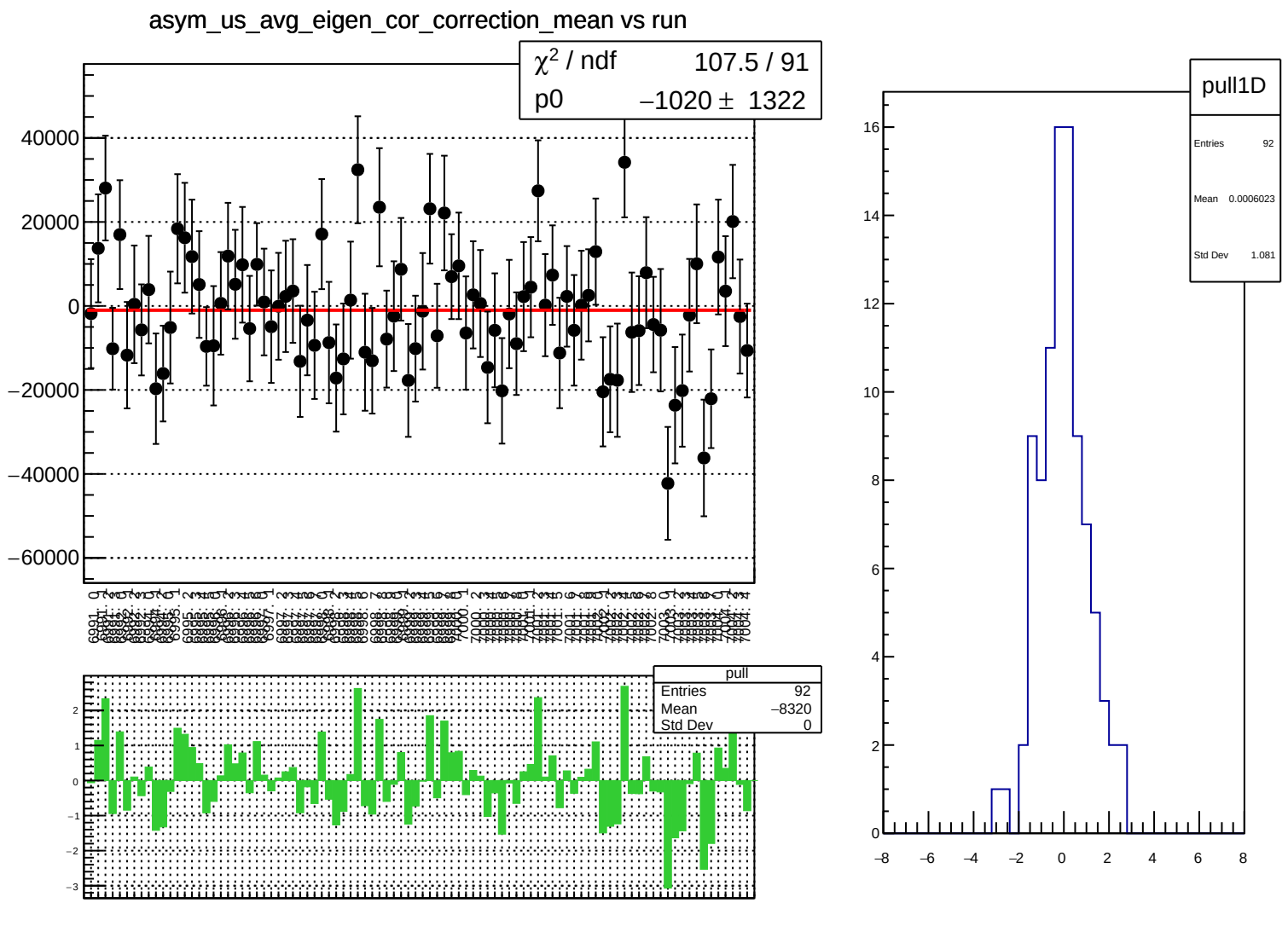

pull1D
Entries 92
Mean 0.0002531
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

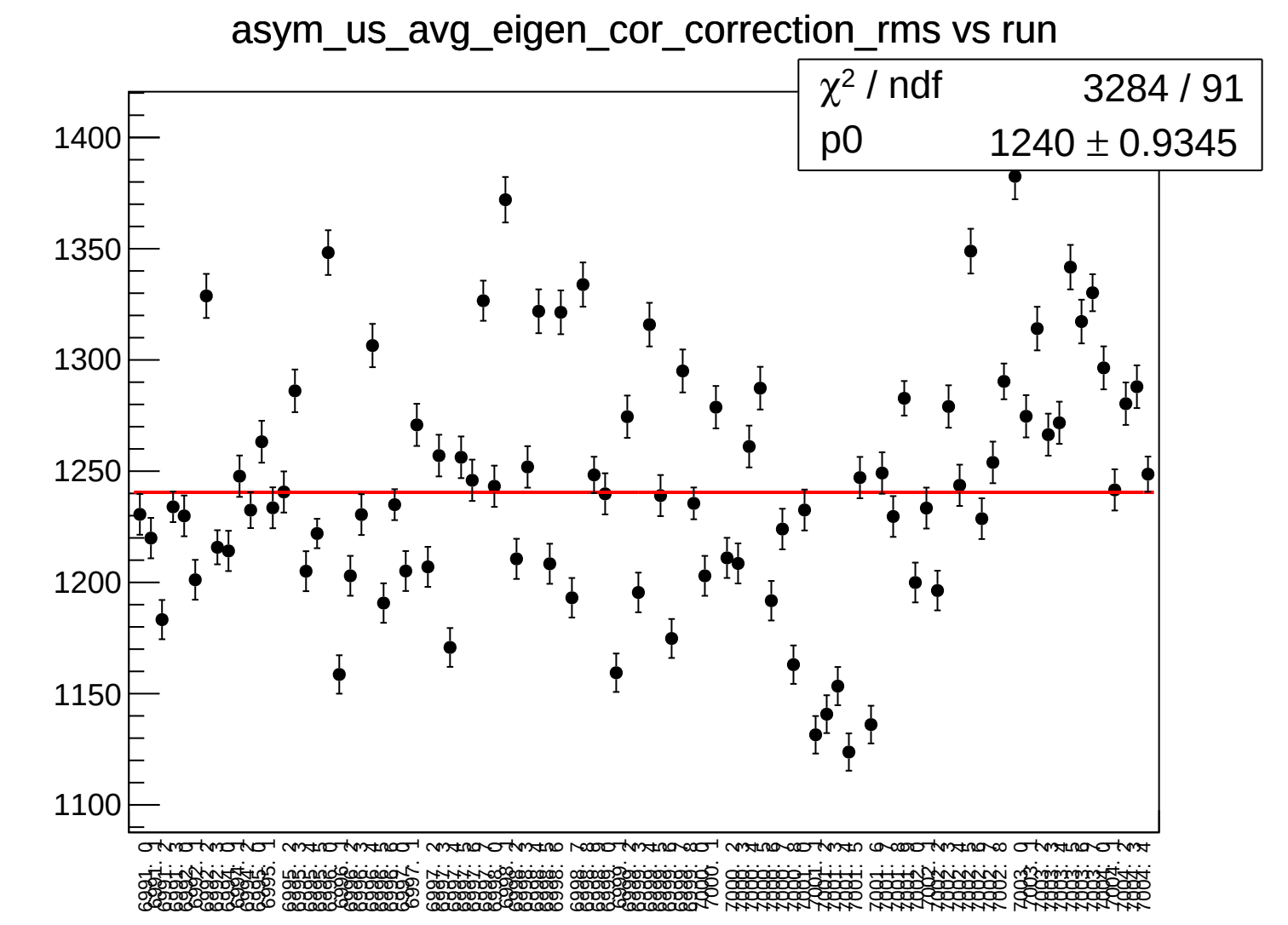

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 3275 / 91
p0 1242 ± 0.9355
1400
1350
1300
1250
1200
1150
1100

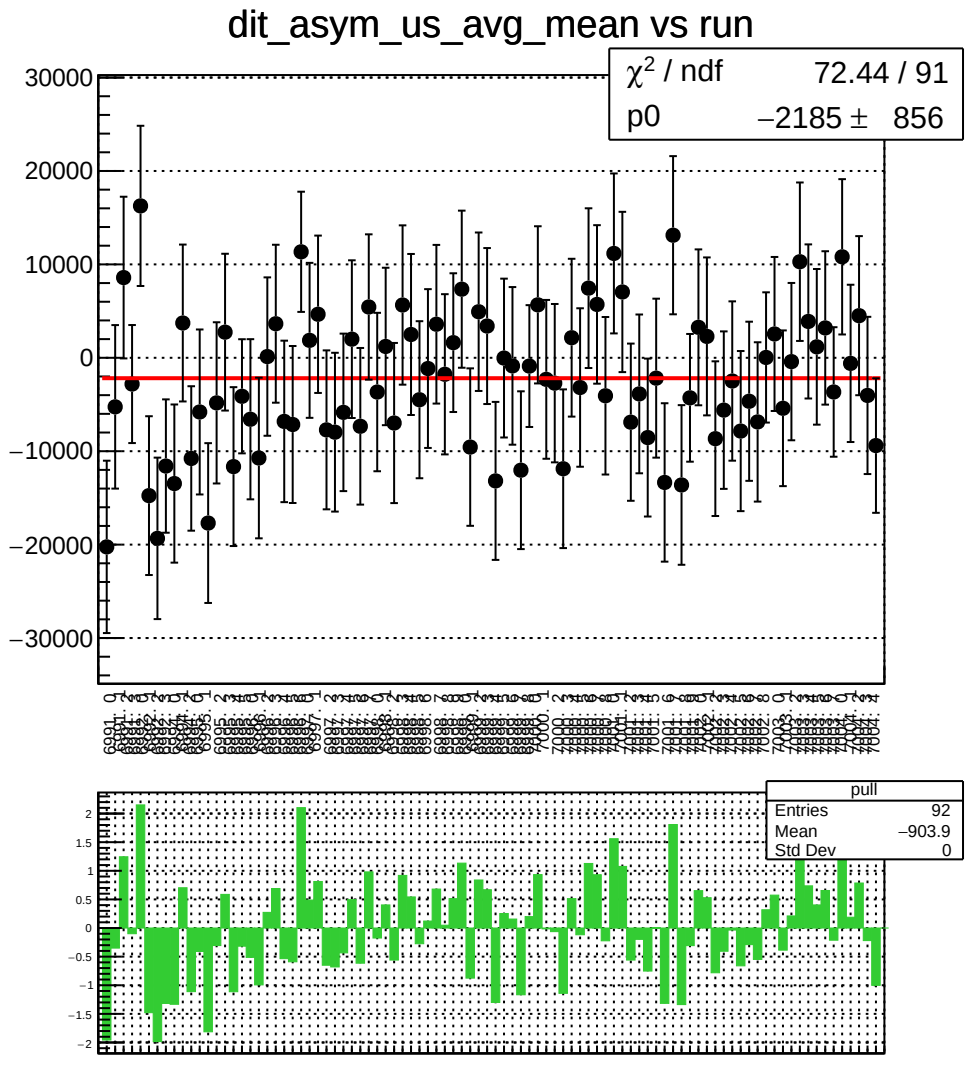

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 71.45 / 91
p0 −2150 ± 853.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −869.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

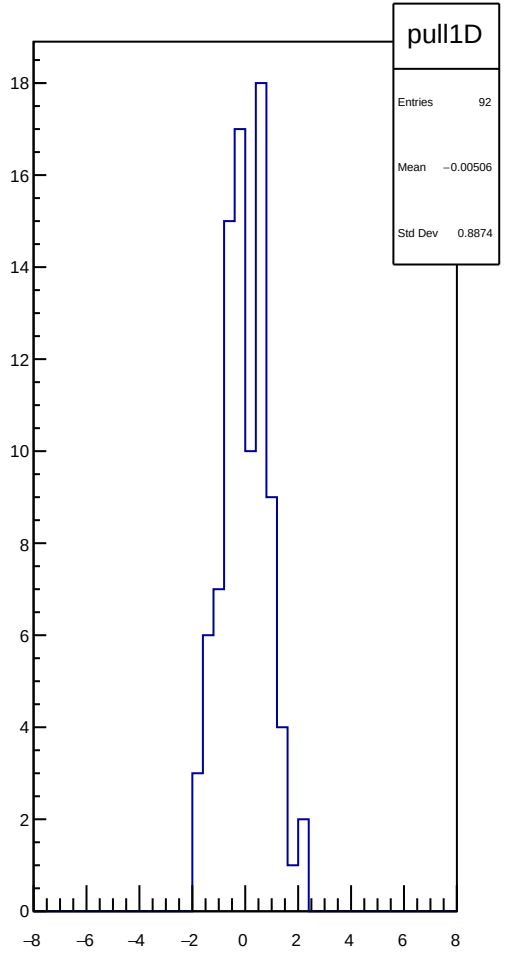

pull1D
Entries 92
Mean −0.00567
Std Dev 0.8813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

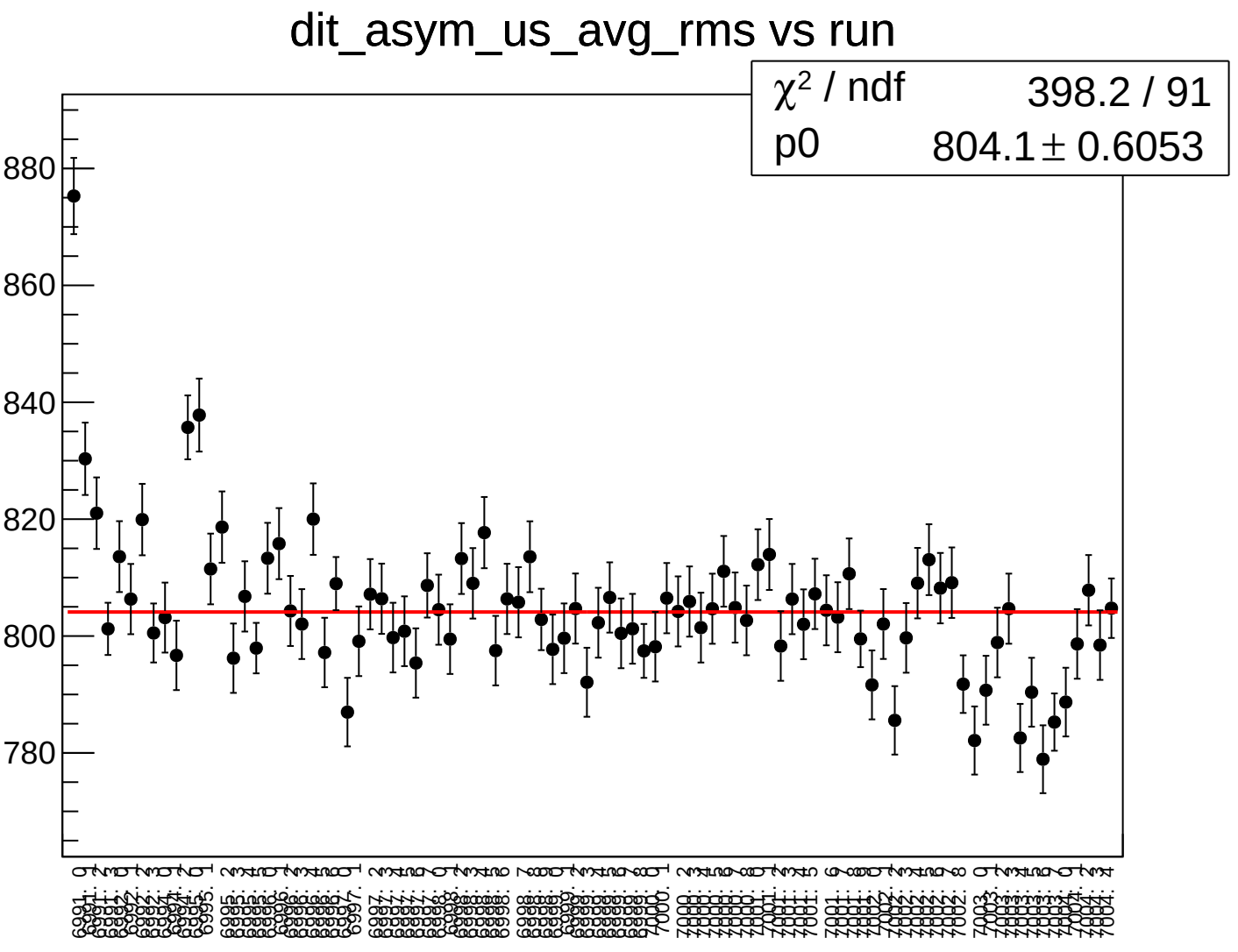

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 376.8 / 91
p0 801.4 ± 0.6032
880
860
840
820
800
780
760

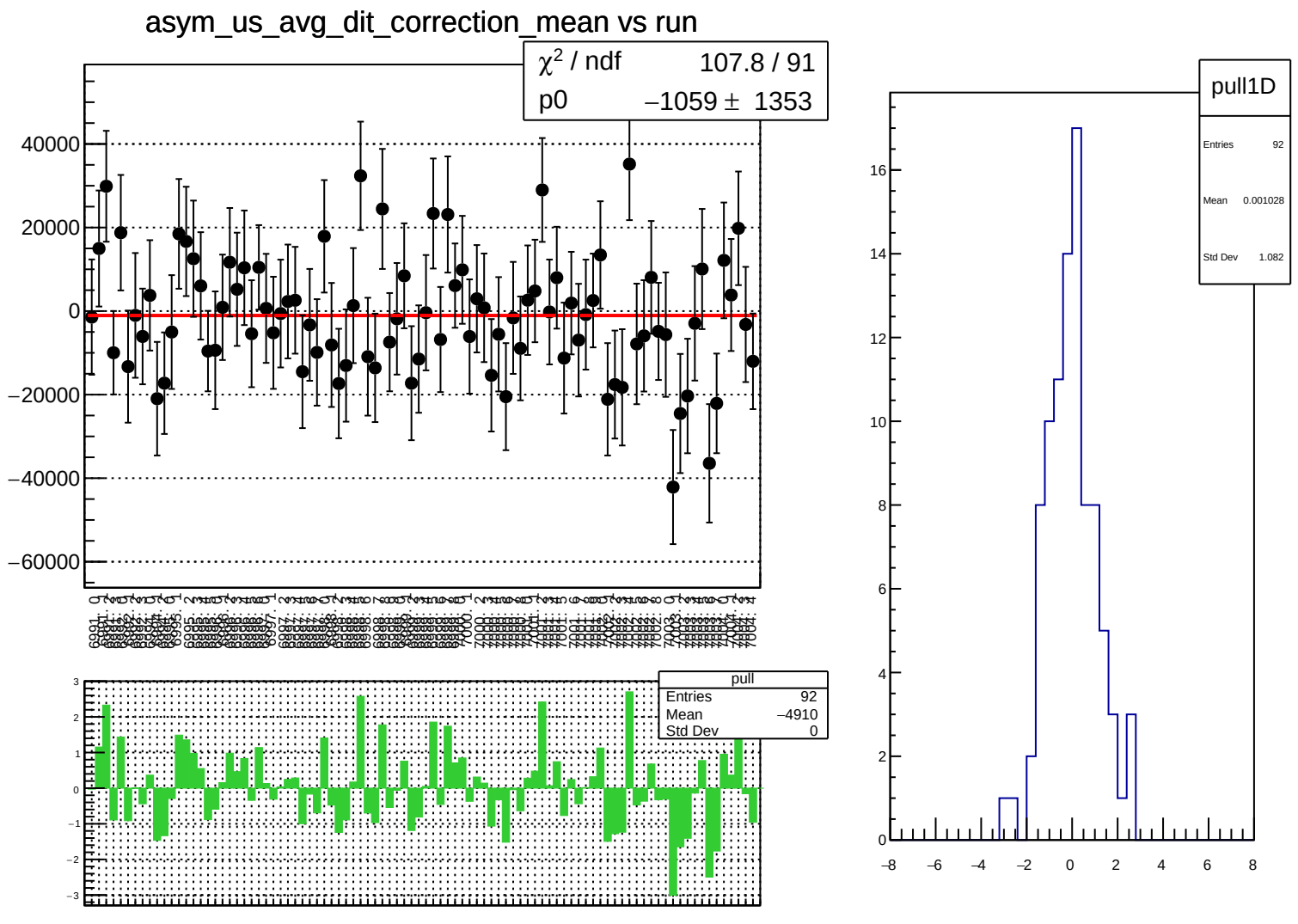

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 107.5 / 91
p0 −1020 ± 1322
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −8320
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0006023
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

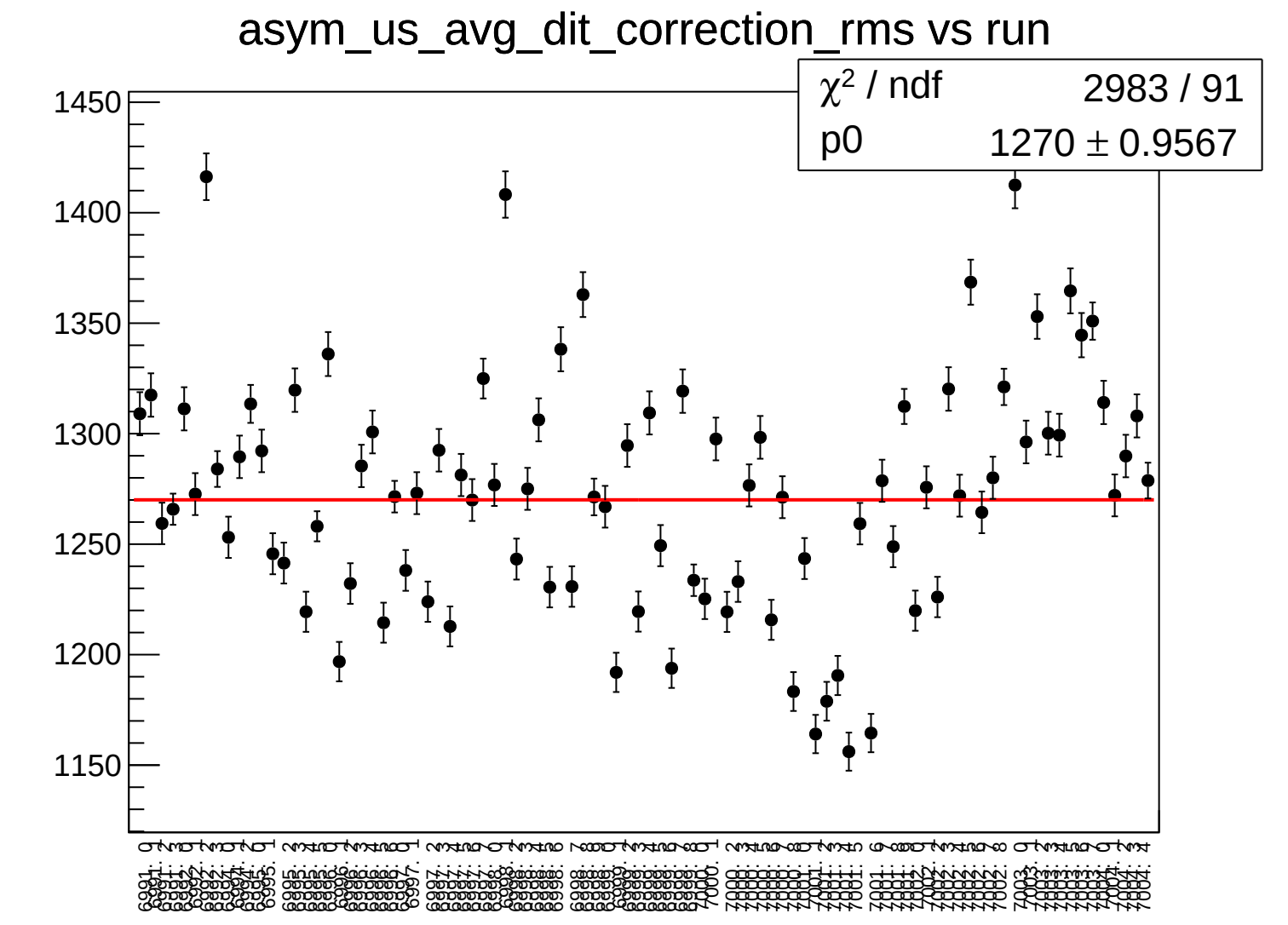

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 3284 / 91
p0 1240 ± 0.9345
1400
1350
1300
1250
1200
1150
1100

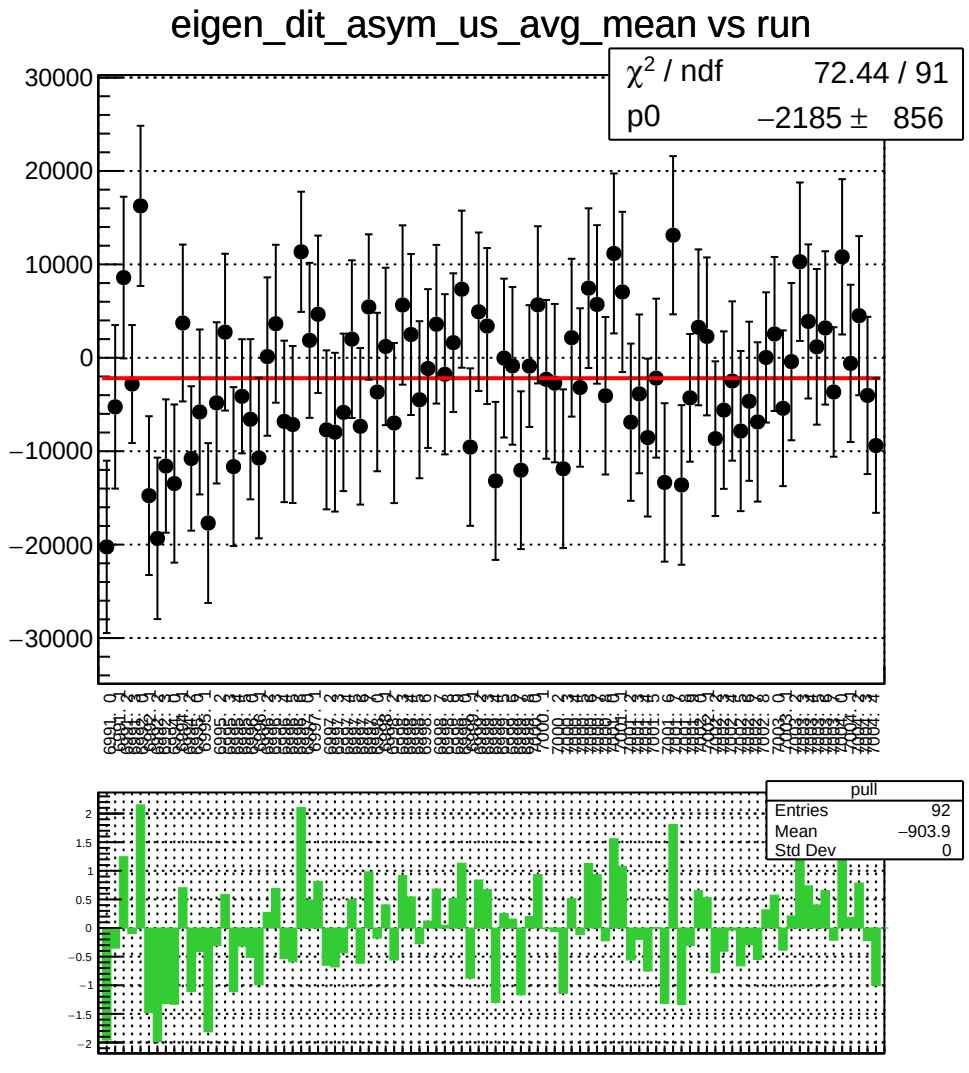

dit_asym_us_avg_mean vs run
χ² / ndf 72.44 / 91
p0 −2185 ± 856
pull
Entries 92
Mean −903.9
Std Dev 0

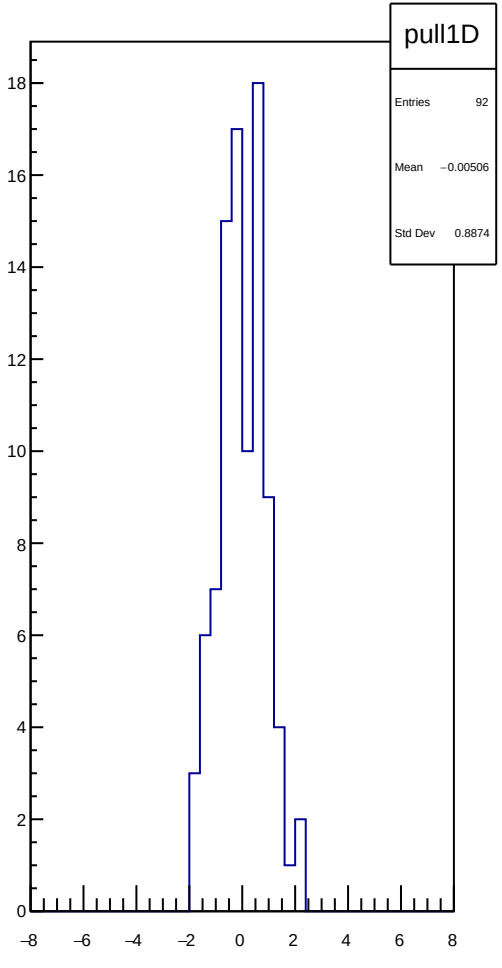

pull1D
Entries 92
Mean −0.00506
Std Dev 0.8874

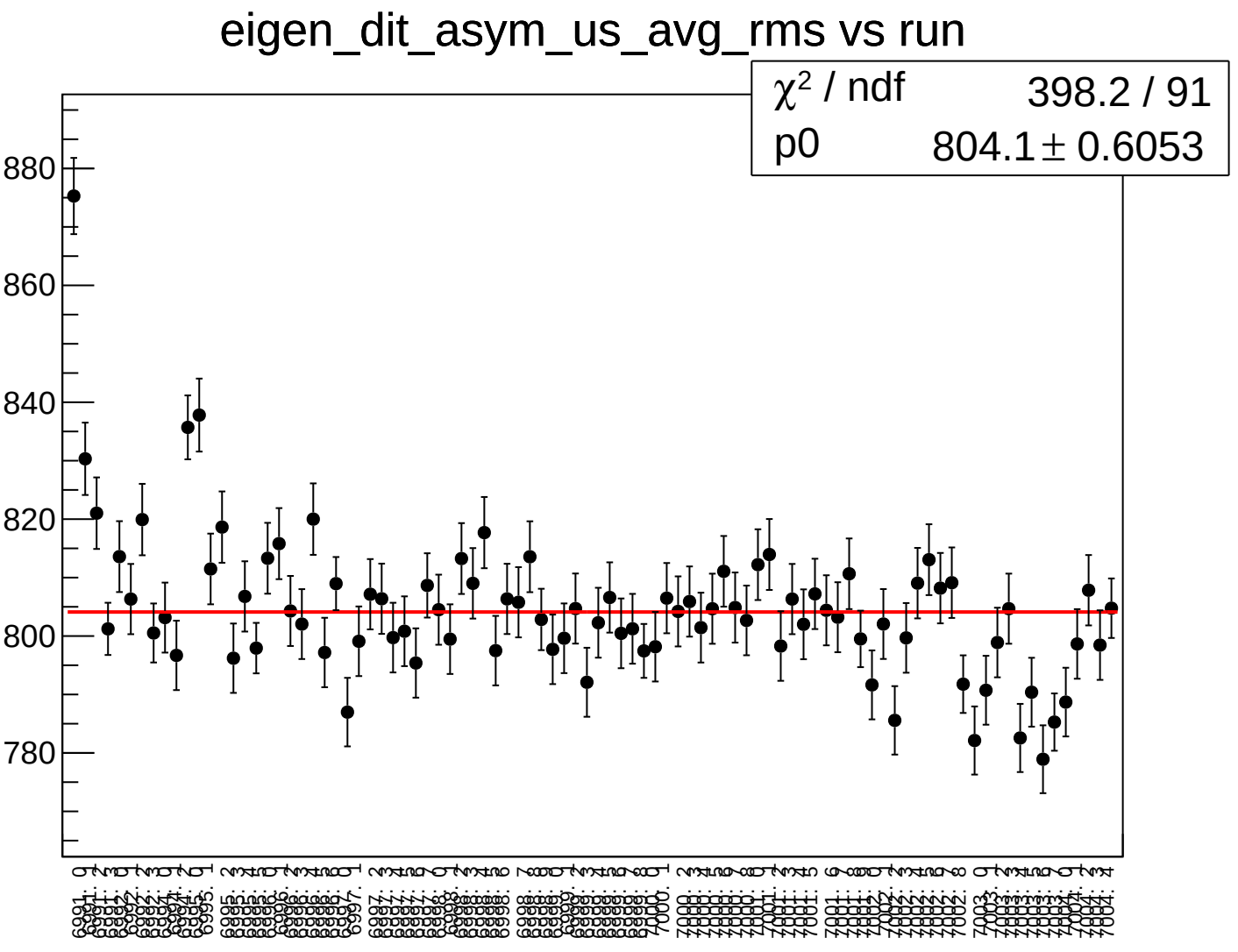

dit_asym_us_avg_rms vs run
χ² / ndf 398.2 / 91
p0 804.1 ± 0.6053
880
860
840
820
800
780

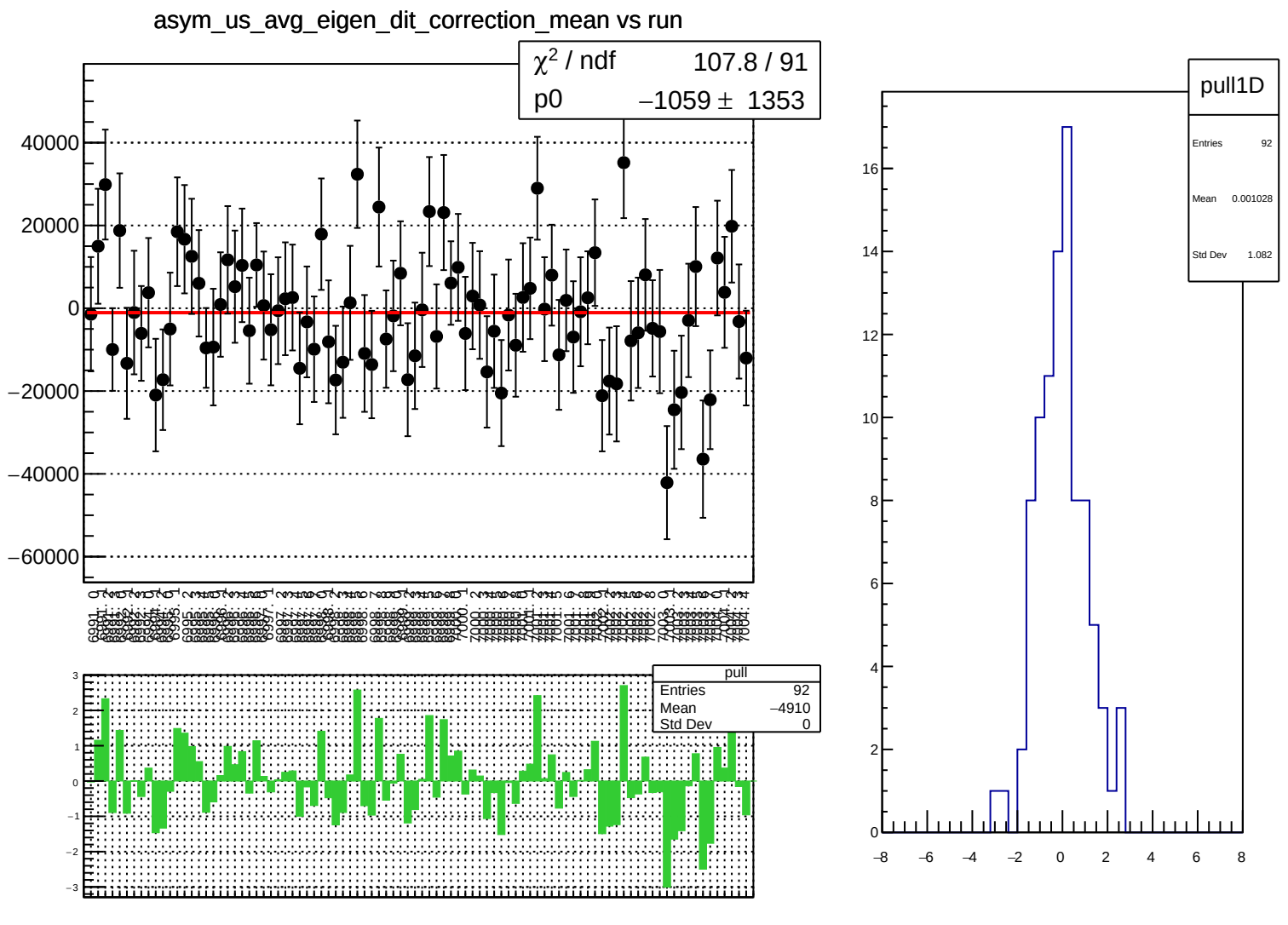

asym_us_avg_dit_correction_mean vs run
χ² / ndf 107.8 / 91
p0 −1059 ± 1353
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −4910
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.001028
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

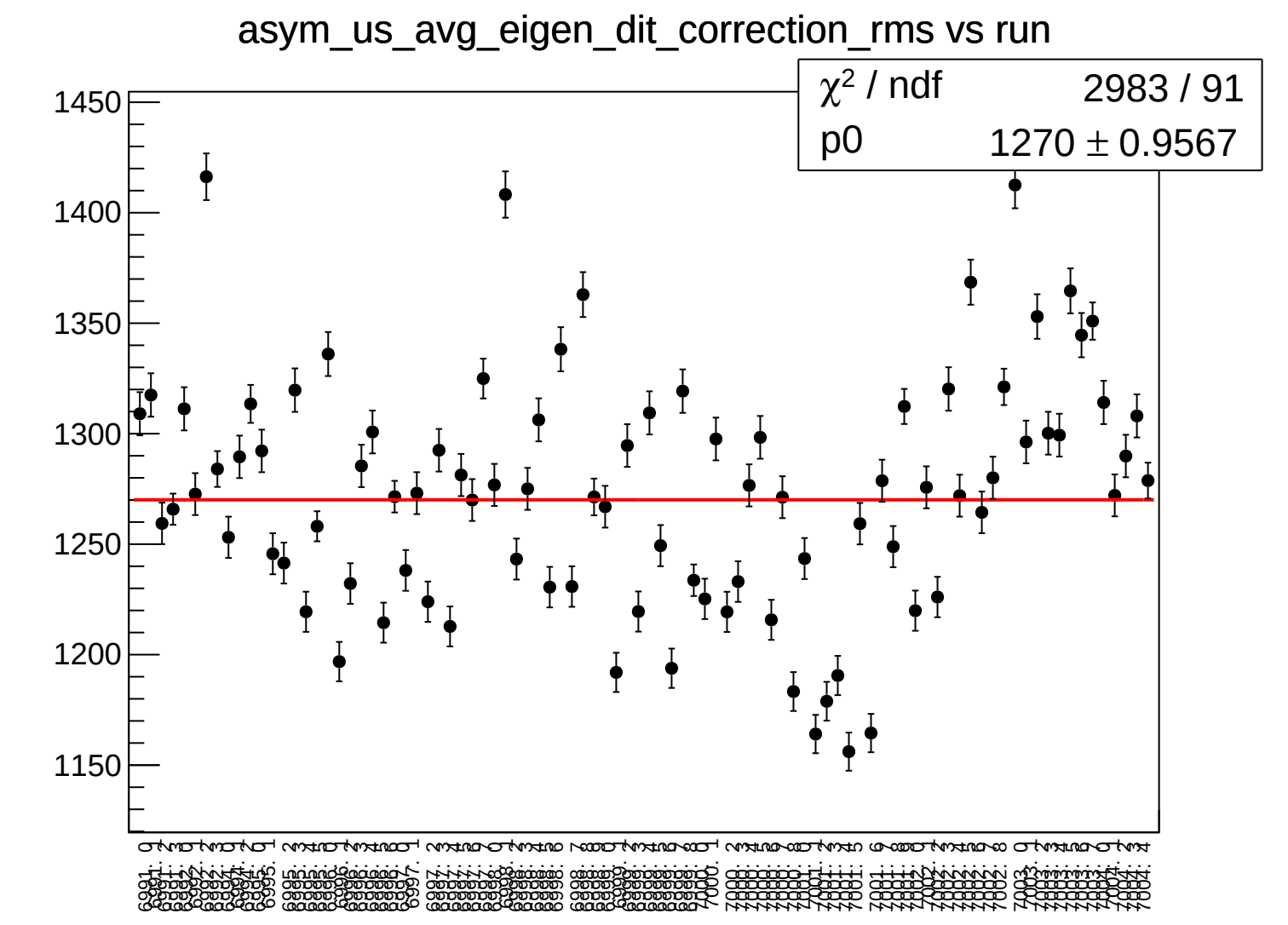

asym_us_avg_dit_correction_rms vs run
χ² / ndf 2983 / 91
p0 1270 ± 0.9567
1450
1400
1350
1300
1250
1200
1150

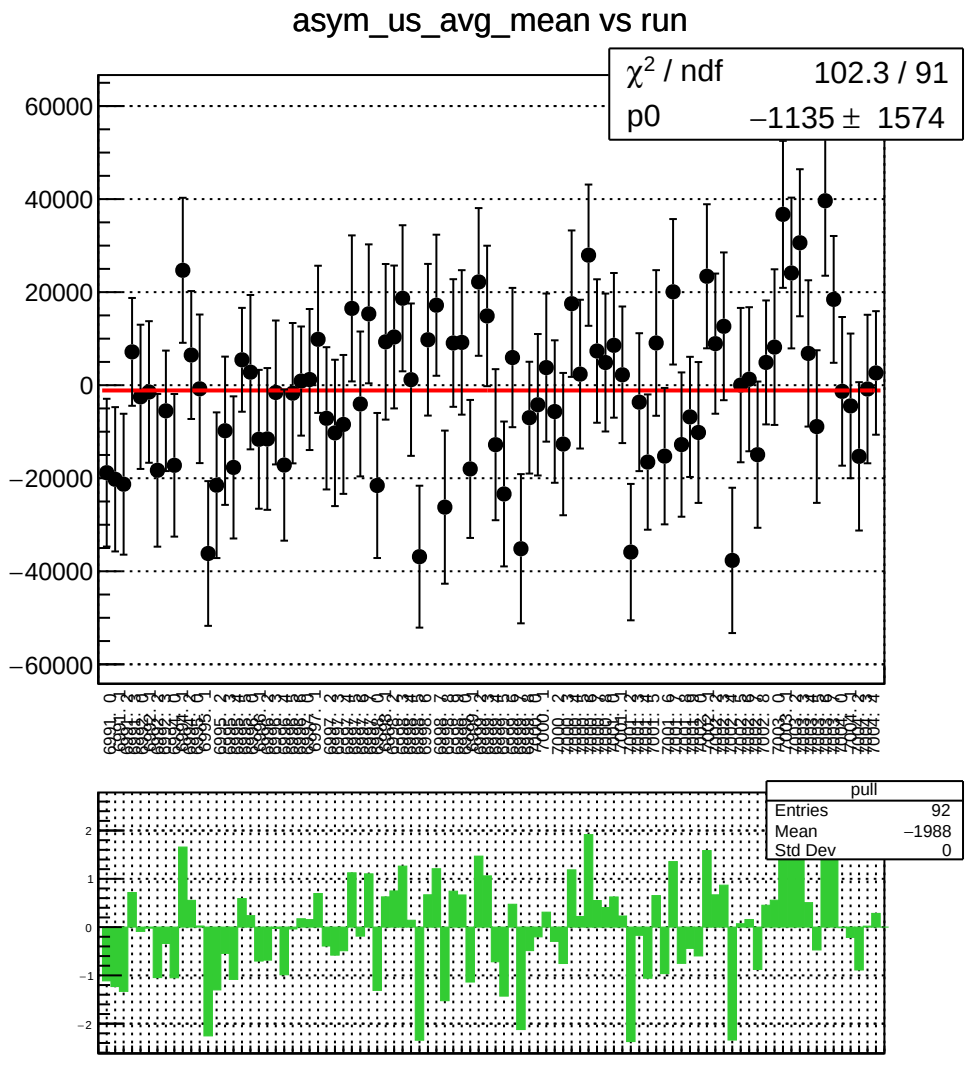

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 72.44 / 91
p0 −2185 ± 856
pull
Entries 92
Mean −903.9
Std Dev 0

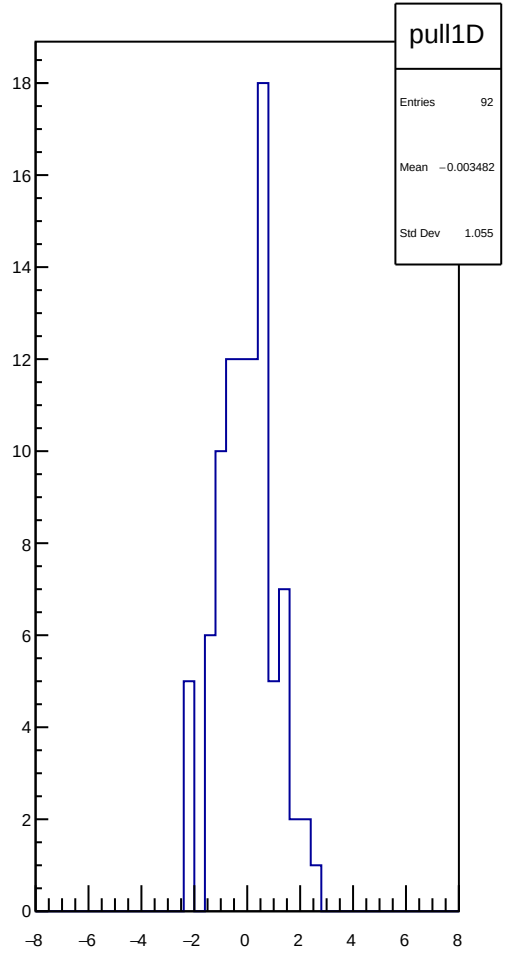

pull1D
Entries 92
Mean −0.00506
Std Dev 0.8874

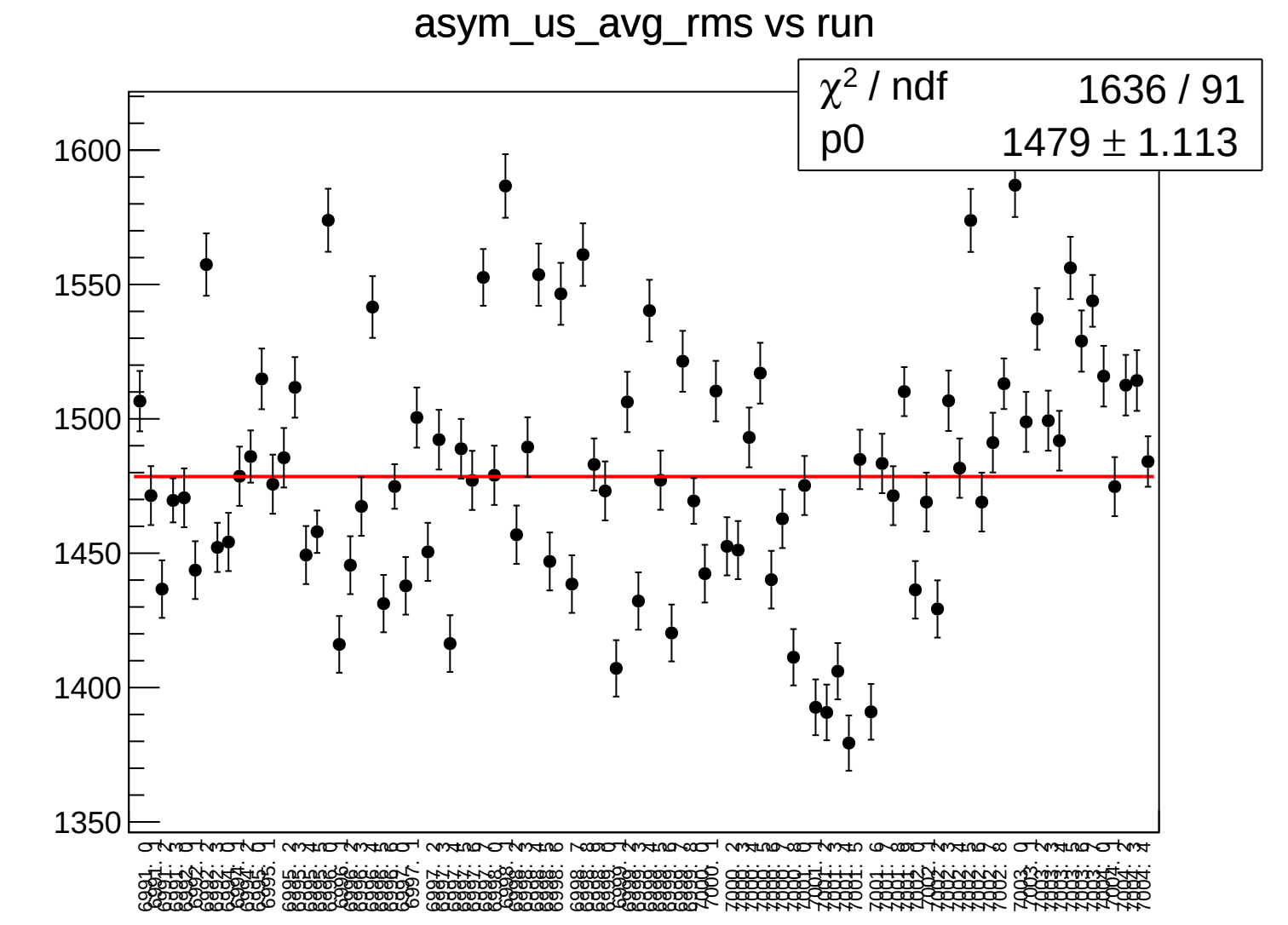

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 398.2 / 91
p0 804.1 ± 0.6053
880
860
840
820
800
780

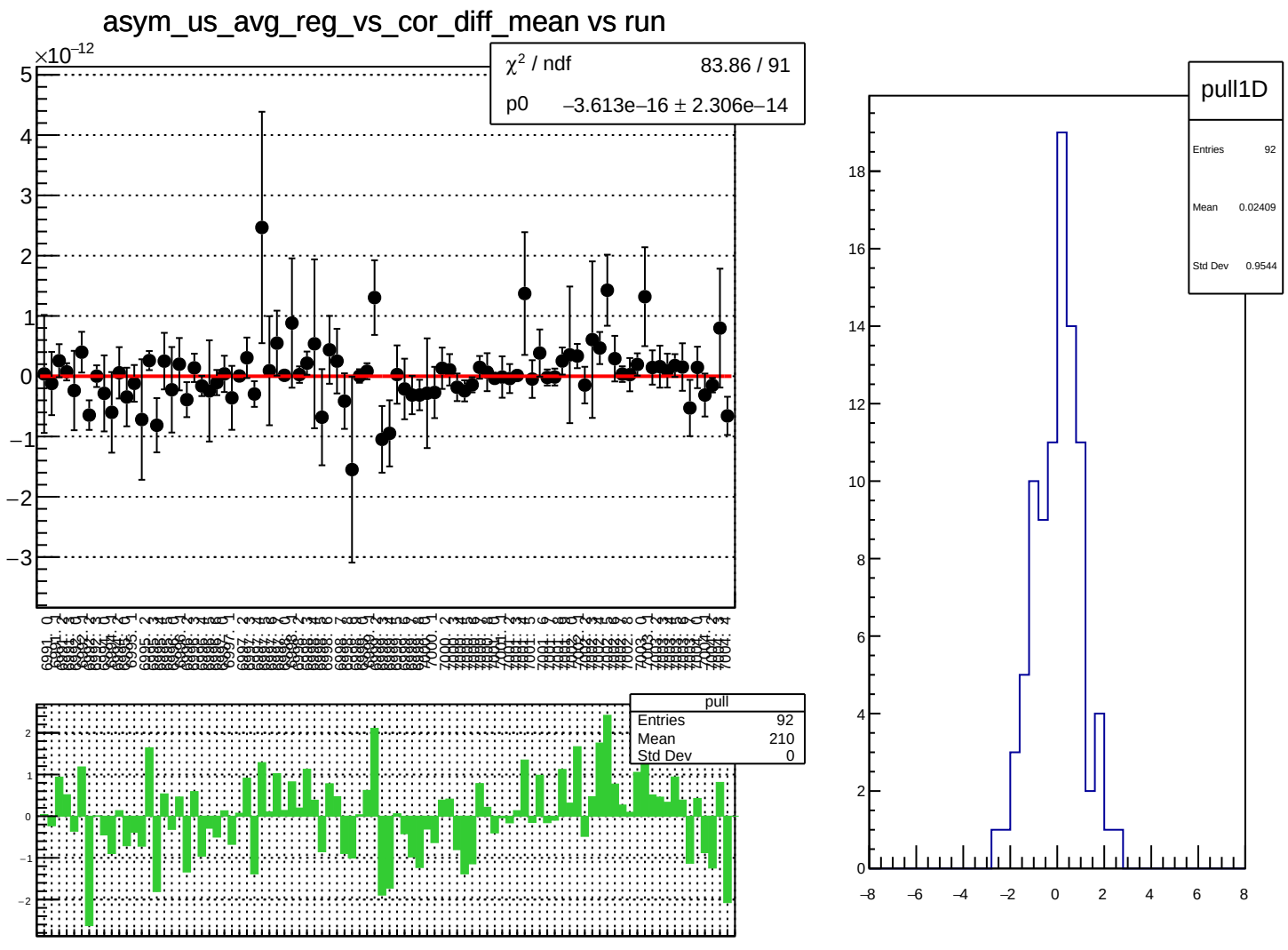

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 107.8 / 91
p0 −1059 ± 1353
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −4910
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.001028
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

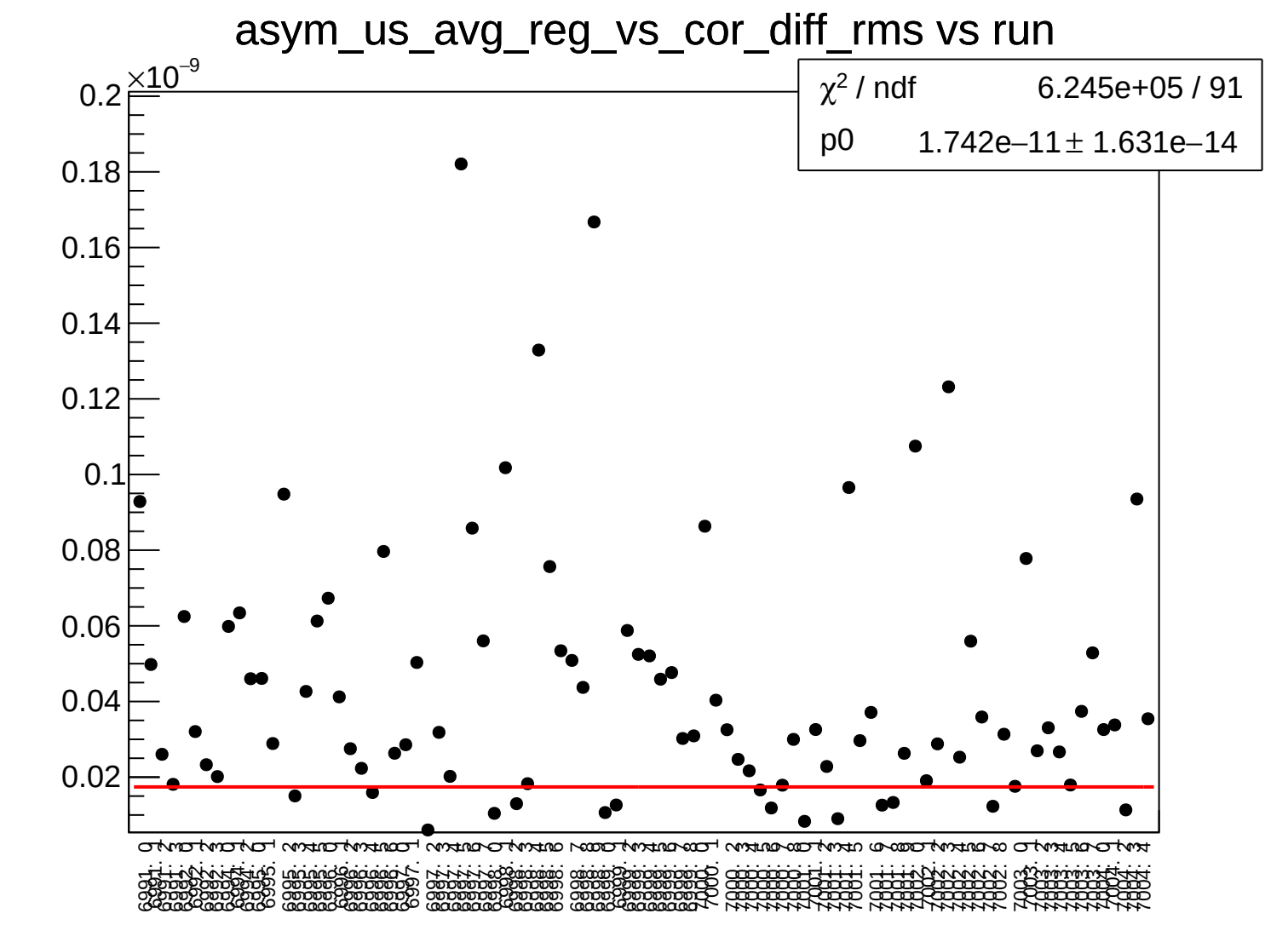

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 2983 / 91
p0 1270 ± 0.9567
1450
1400
1350
1300
1250
1200
1150

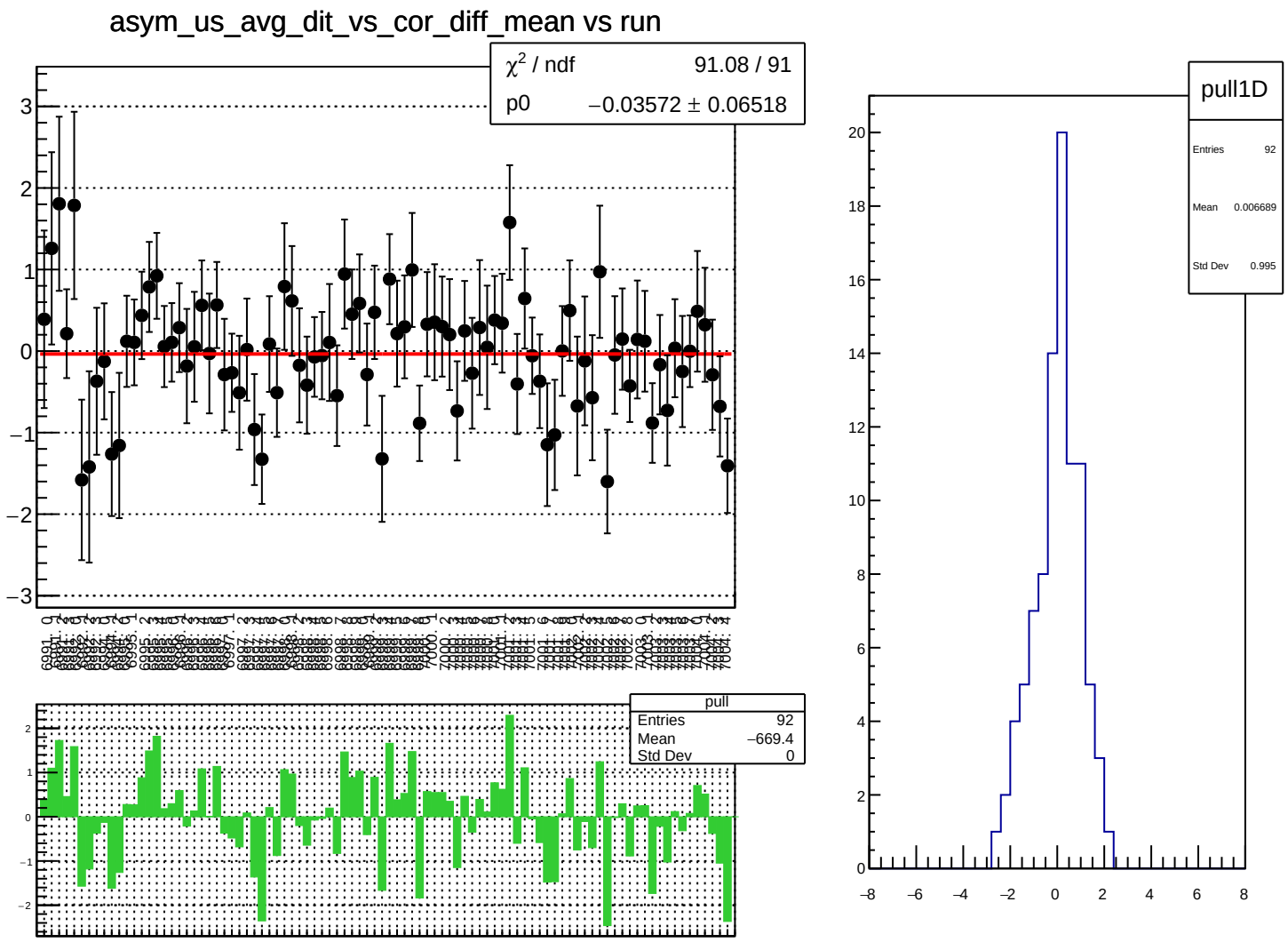

asym_us_avg_mean vs run
χ² / ndf 102.3 / 91
p0 −1135 ± 1574
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1988
Std Dev 0
2
1
0
−1
−2

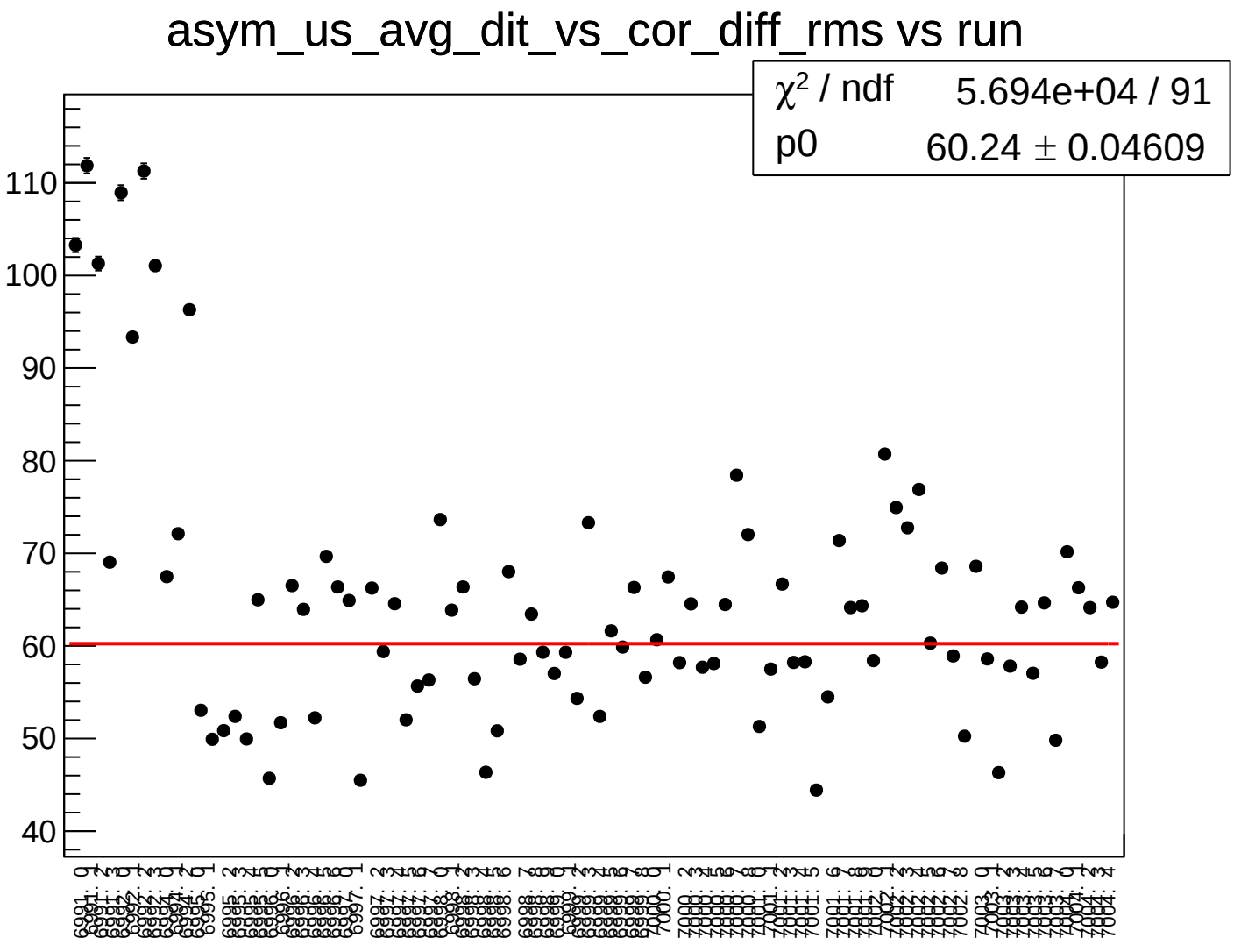

pull1D
Entries 92
Mean −0.003482
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

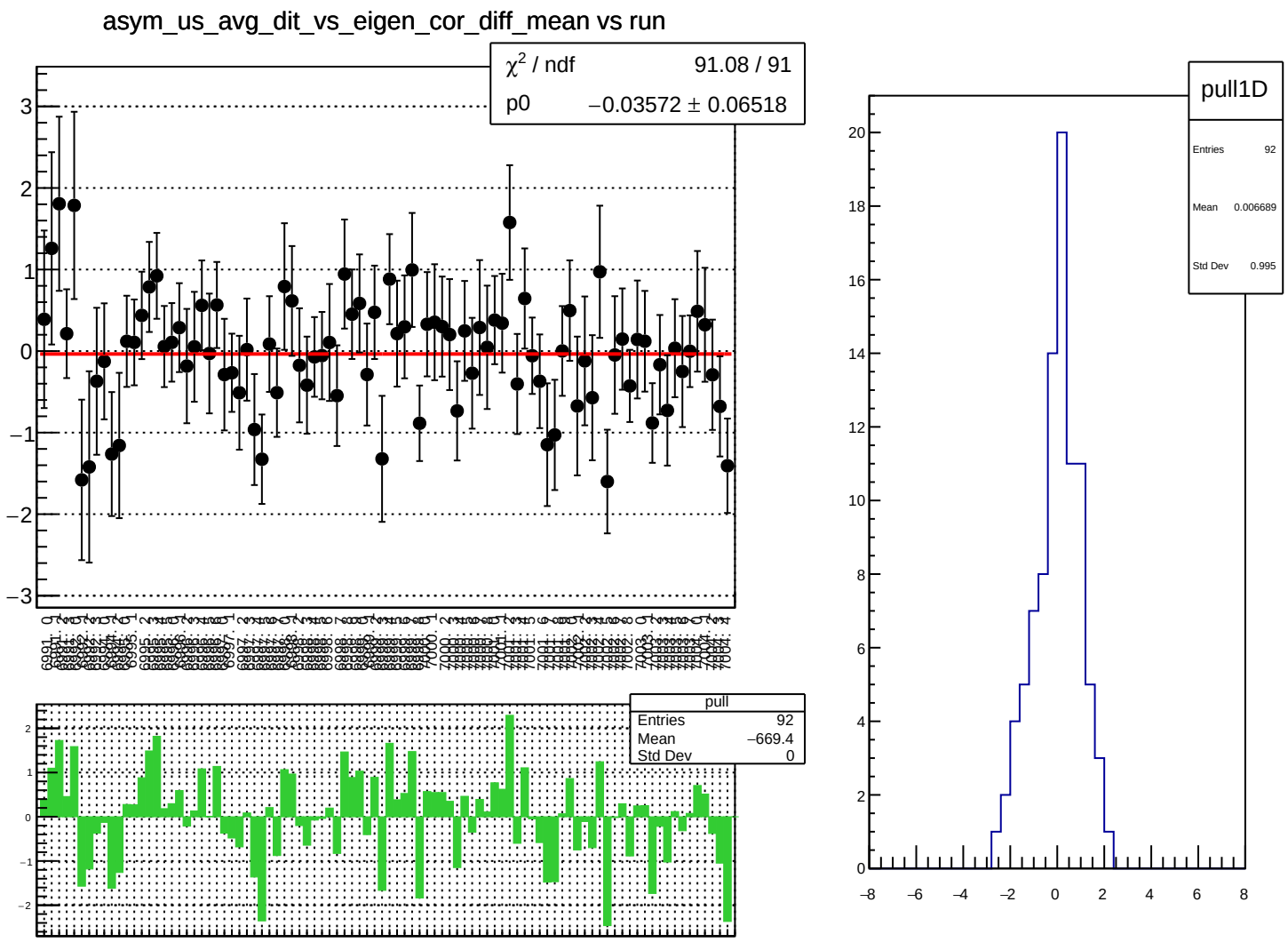

asym_us_avg_rms vs run
χ² / ndf 1636 / 91
p0 1479 ± 1.113
1600
1550
1500
1450
1400
1350

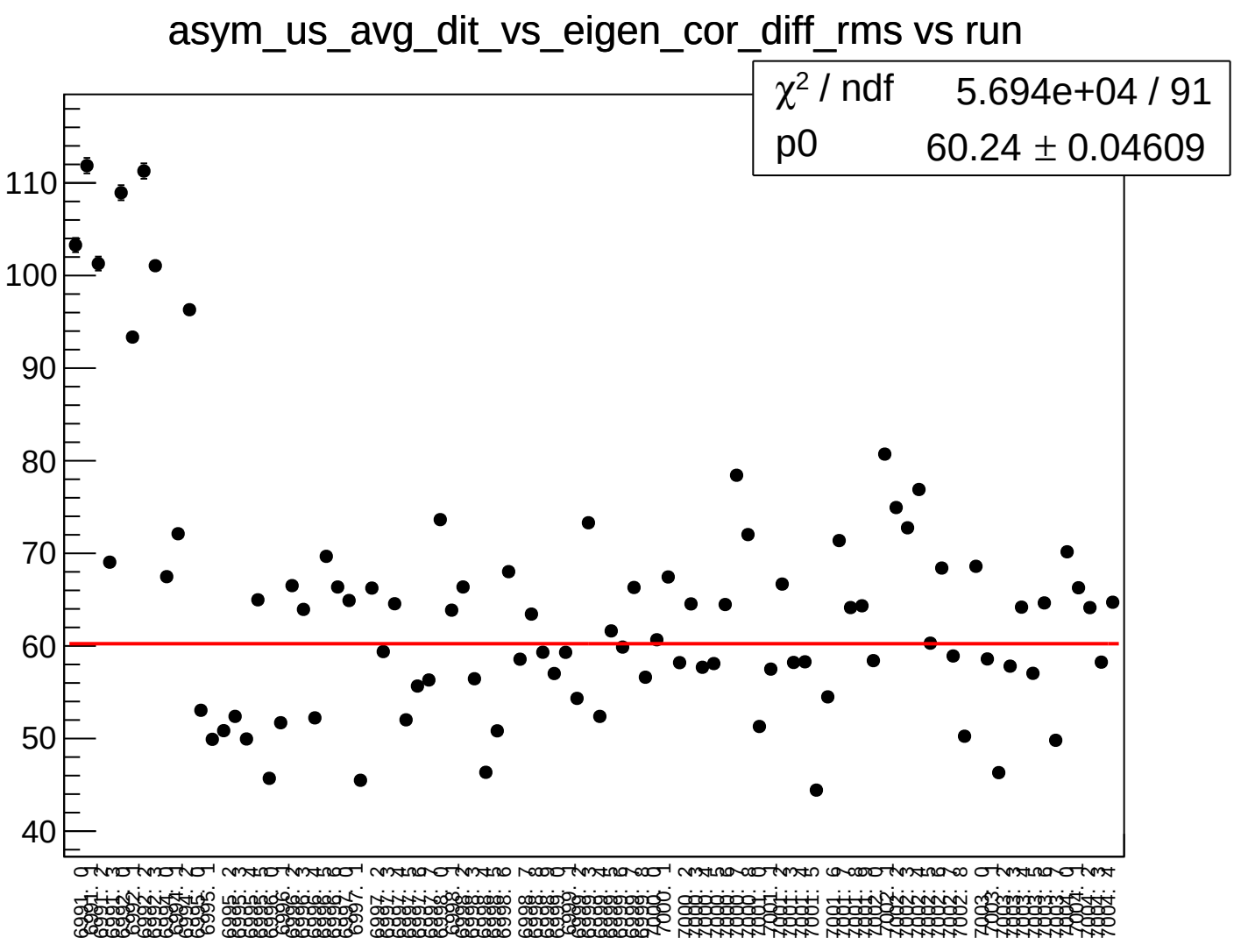

asym_us_avg_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 83.86 / 91
p0 −3.613e−16 ± 2.306e−14
pull
Entries 92
Mean 210
Std Dev 0
pull1D
Entries 92
Mean 0.02409
Std Dev 0.9544

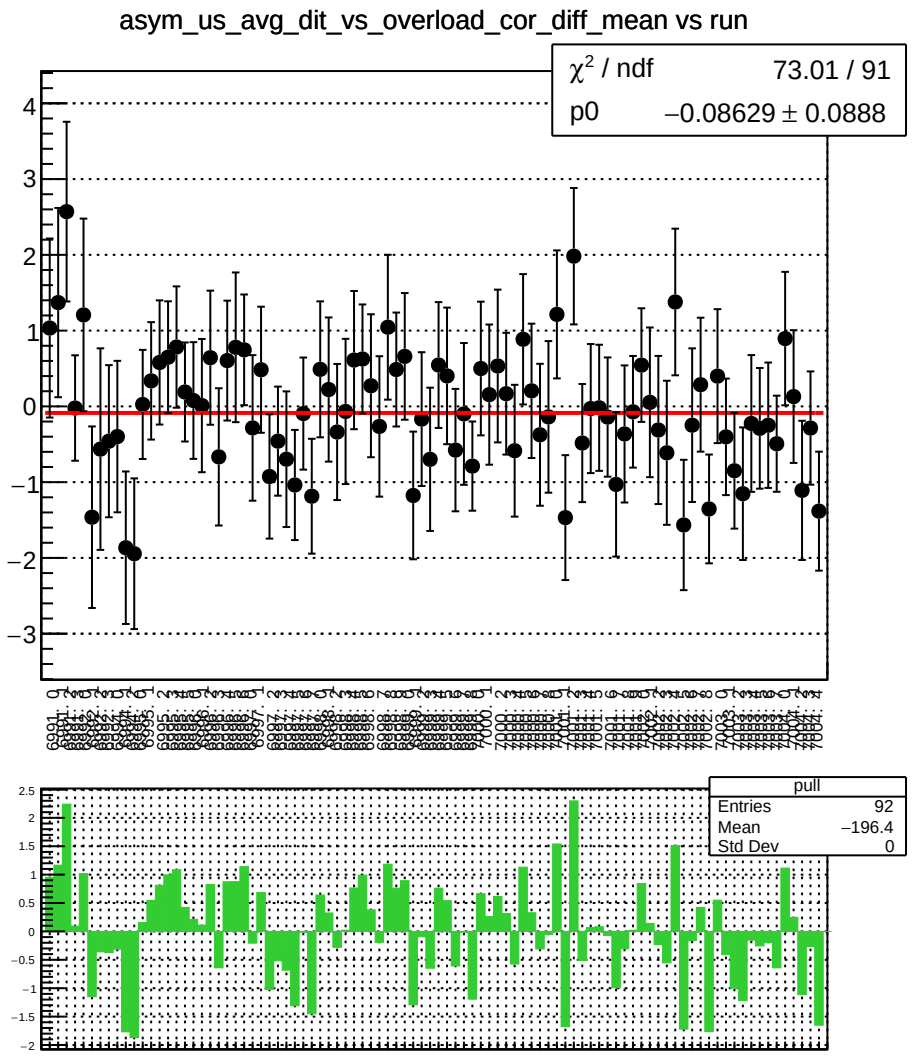

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.245e+05 / 91
p0 1.742e−11 ± 1.631e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

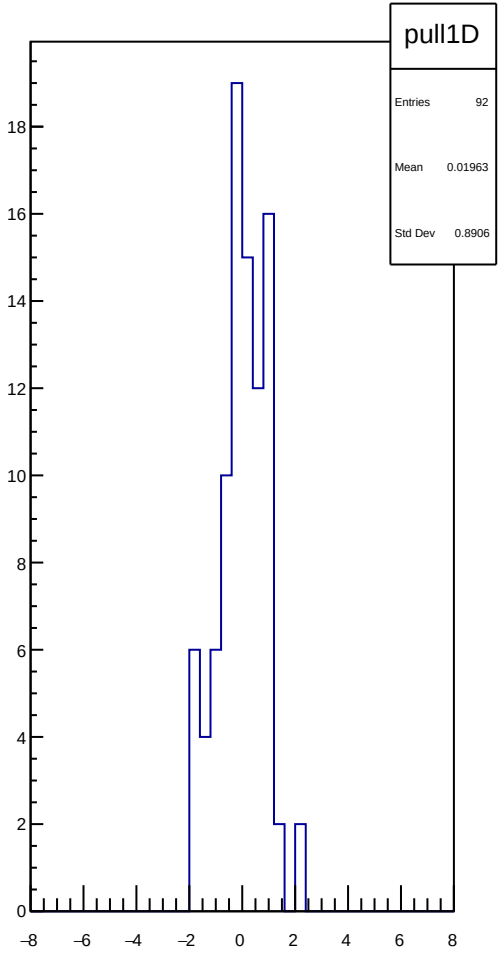

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.08 / 91
p0 −0.03572 ± 0.06518
pull
Entries 92
Mean −669.4
Std Dev 0
pull1D
Entries 92
Mean 0.006689
Std Dev 0.995

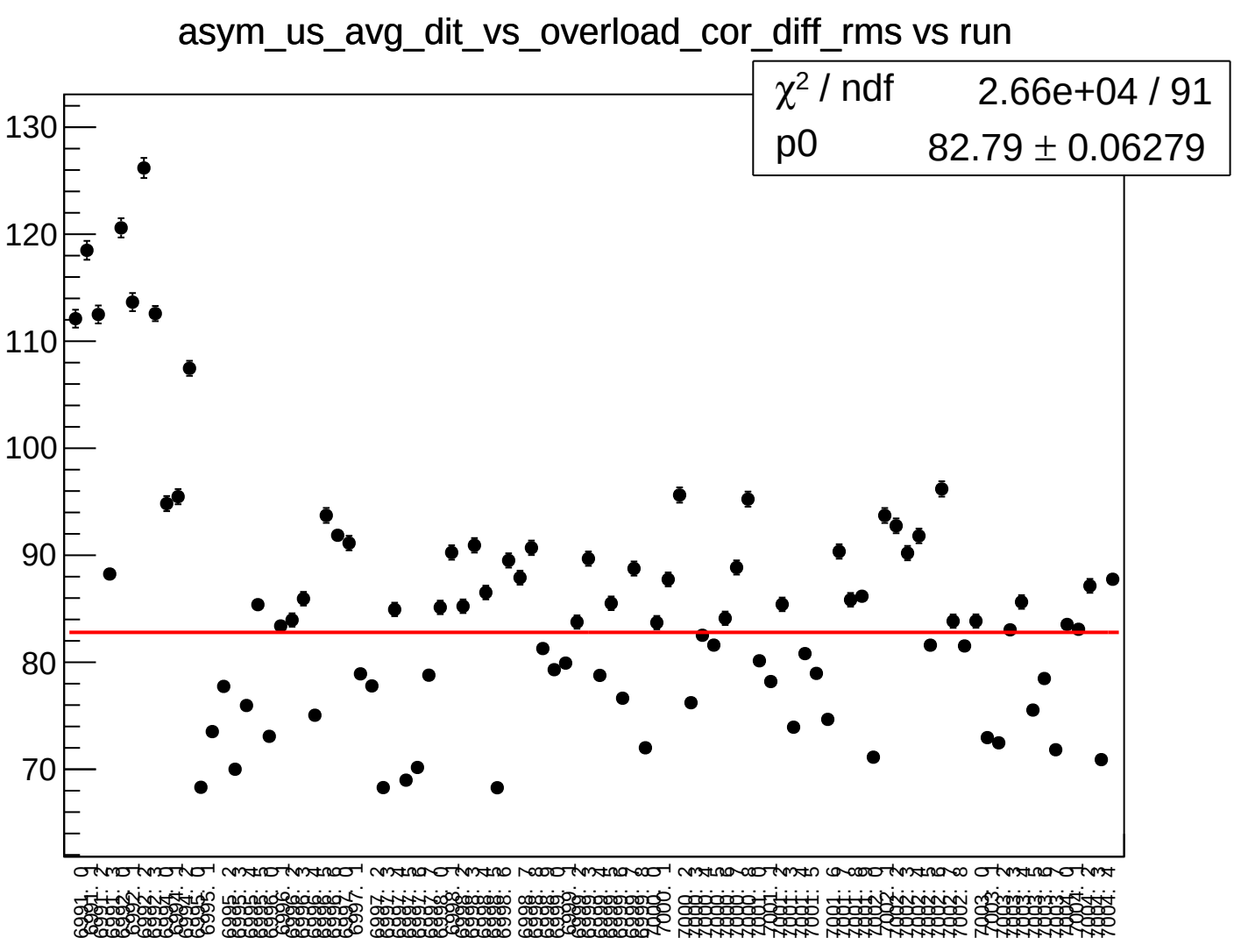

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.694e+04 / 91
p0 60.24 ± 0.04609
110
100
90
80
70
60
50
40

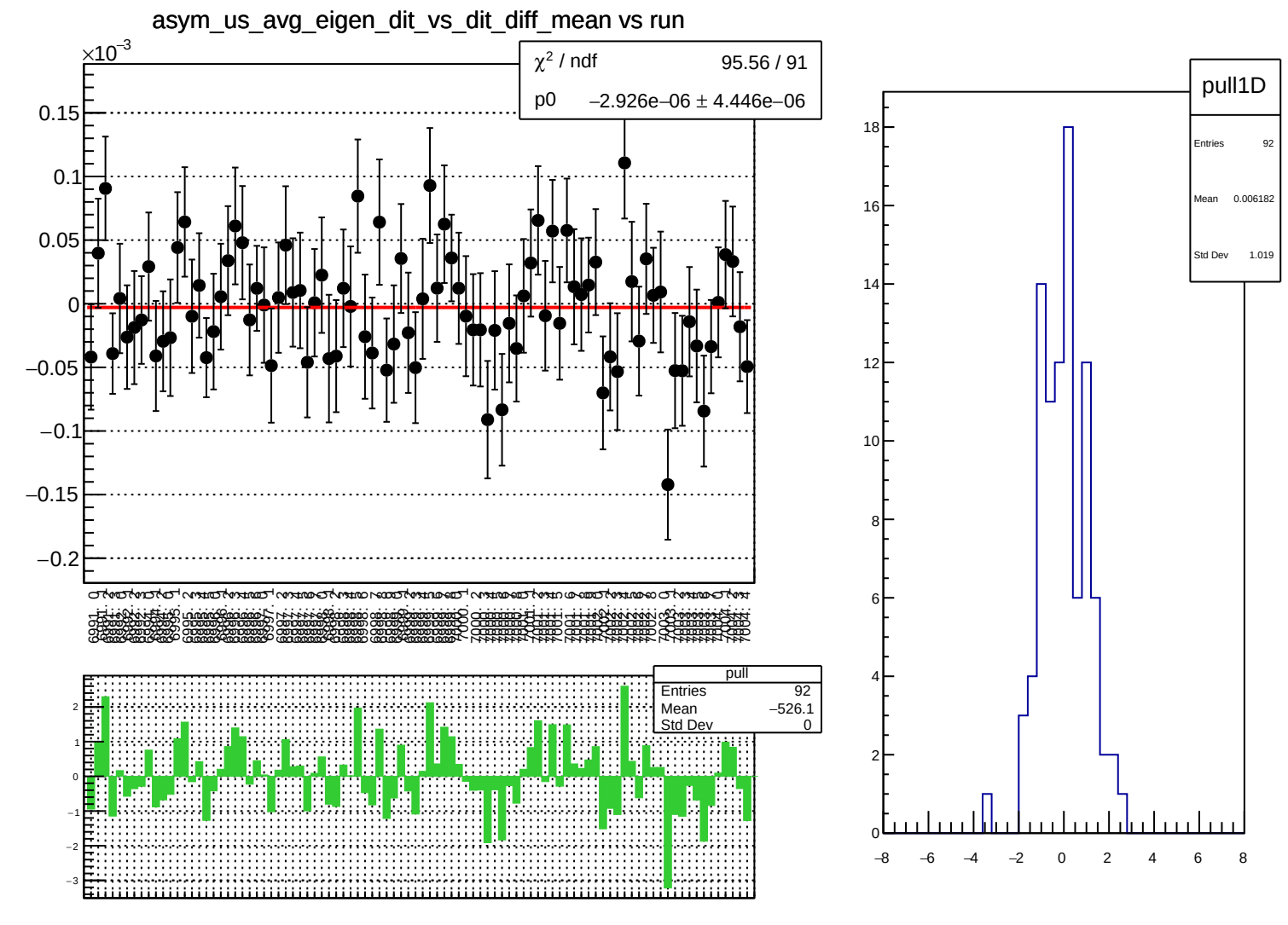

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.08 / 91
p0 −0.03572 ± 0.06518
pull
Entries 92
Mean −669.4
Std Dev 0
pull1D
Entries 92
Mean 0.006689
Std Dev 0.995

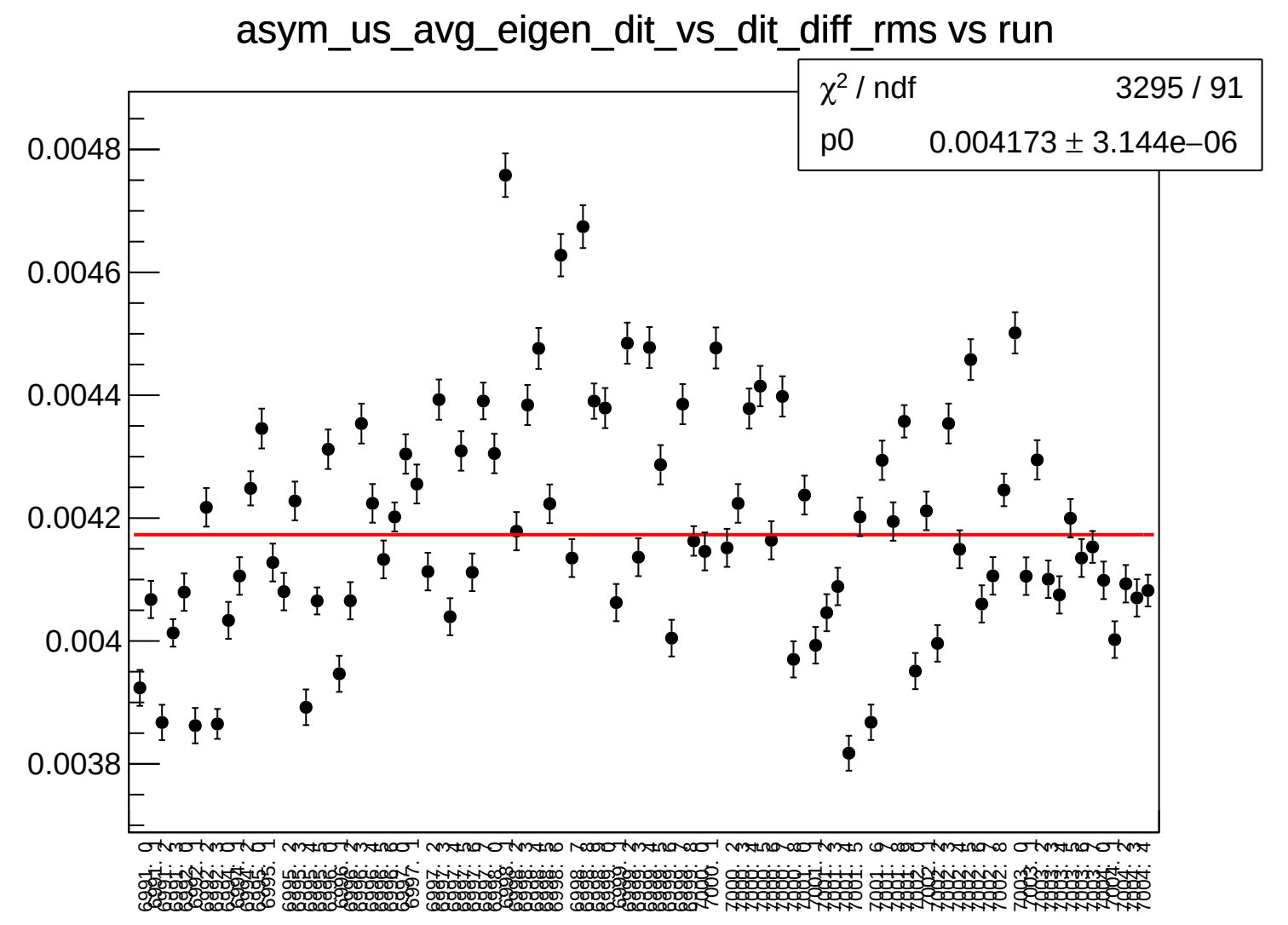

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.694e+04 / 91
p0 60.24 ± 0.04609
110
100
90
80
70
60
50
40

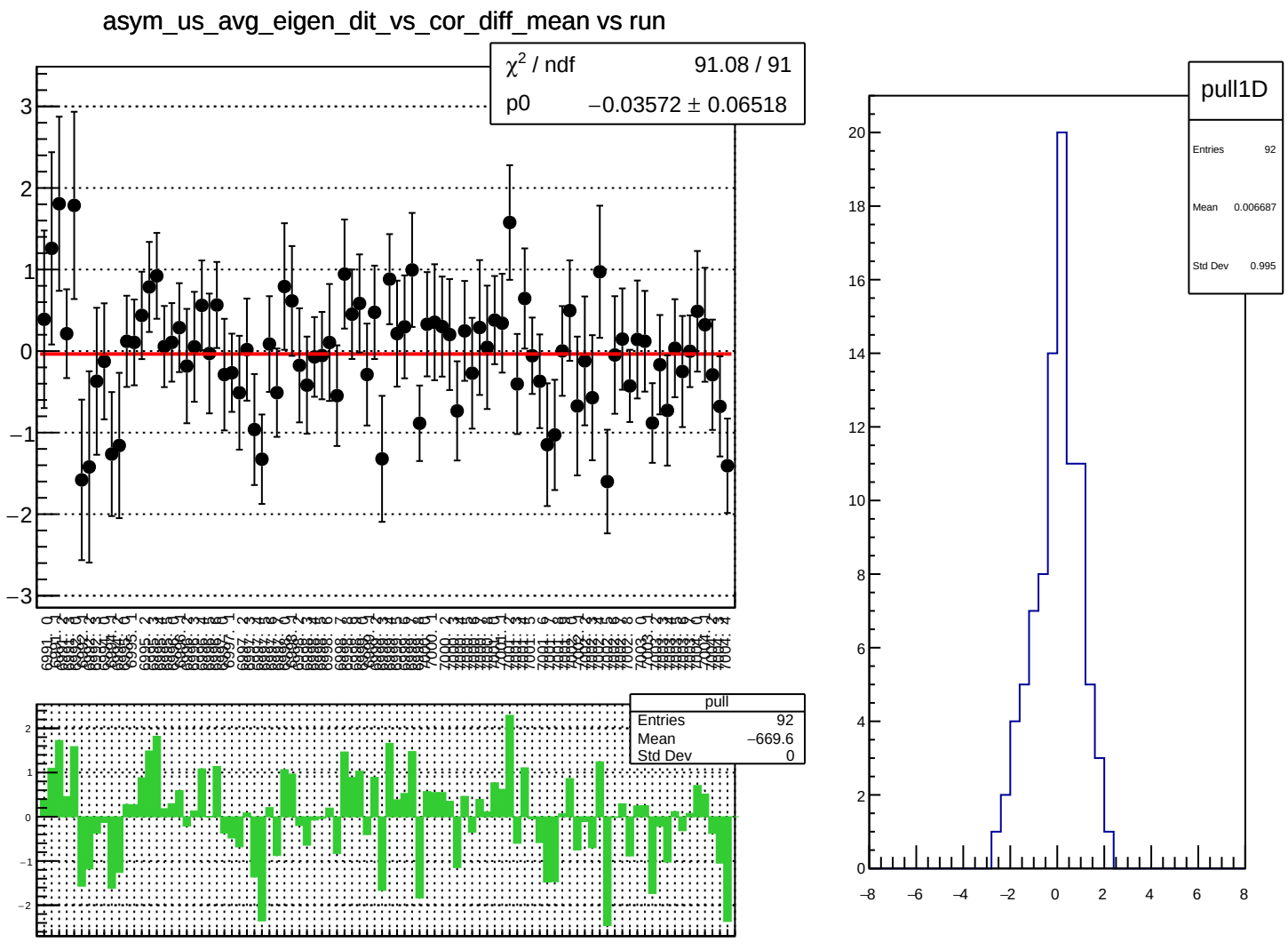

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 73.01 / 91
p0 −0.08629 ± 0.0888
pull
Entries 92
Mean −196.4
Std Dev 0

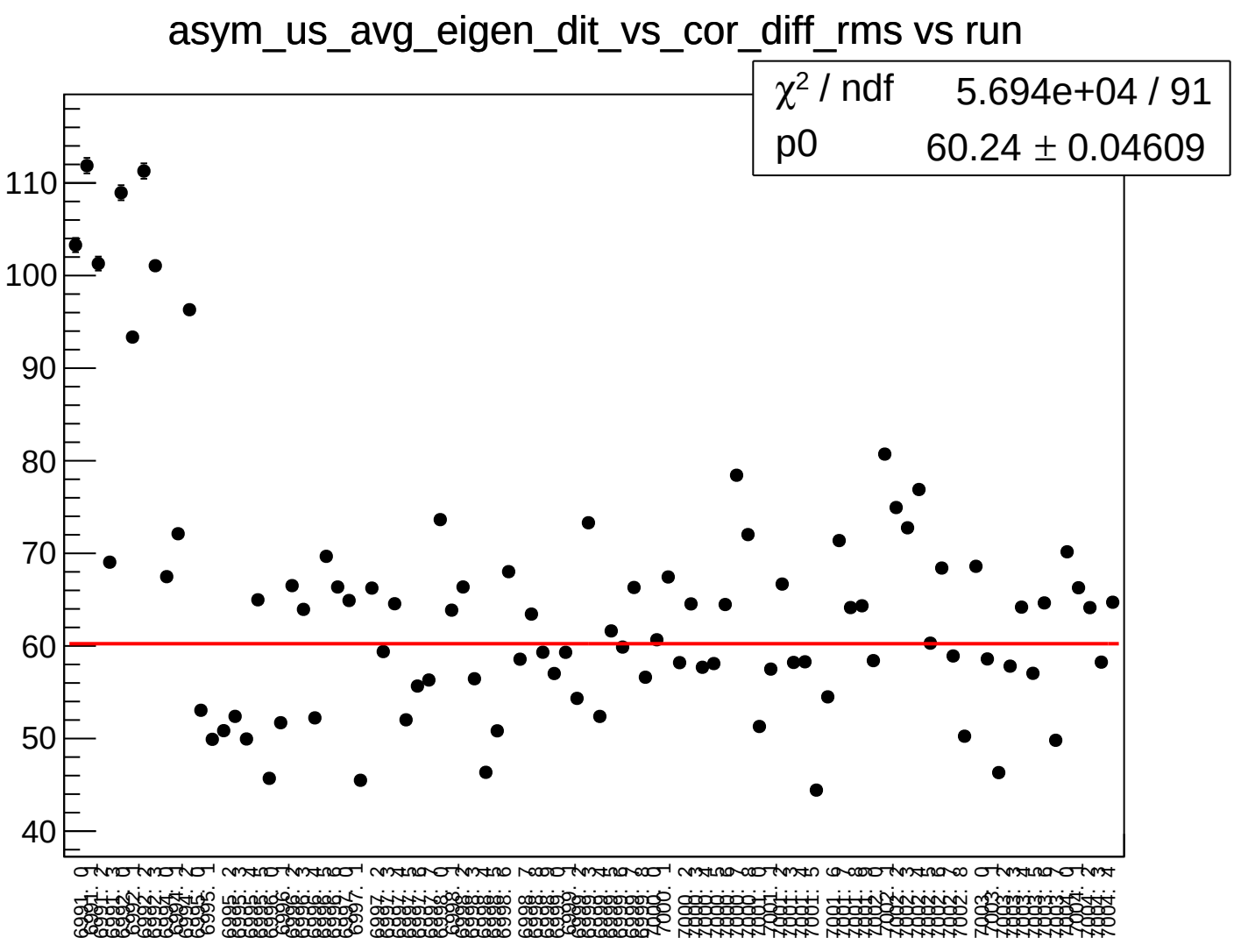

pull1D
Entries 92
Mean 0.01963
Std Dev 0.8906

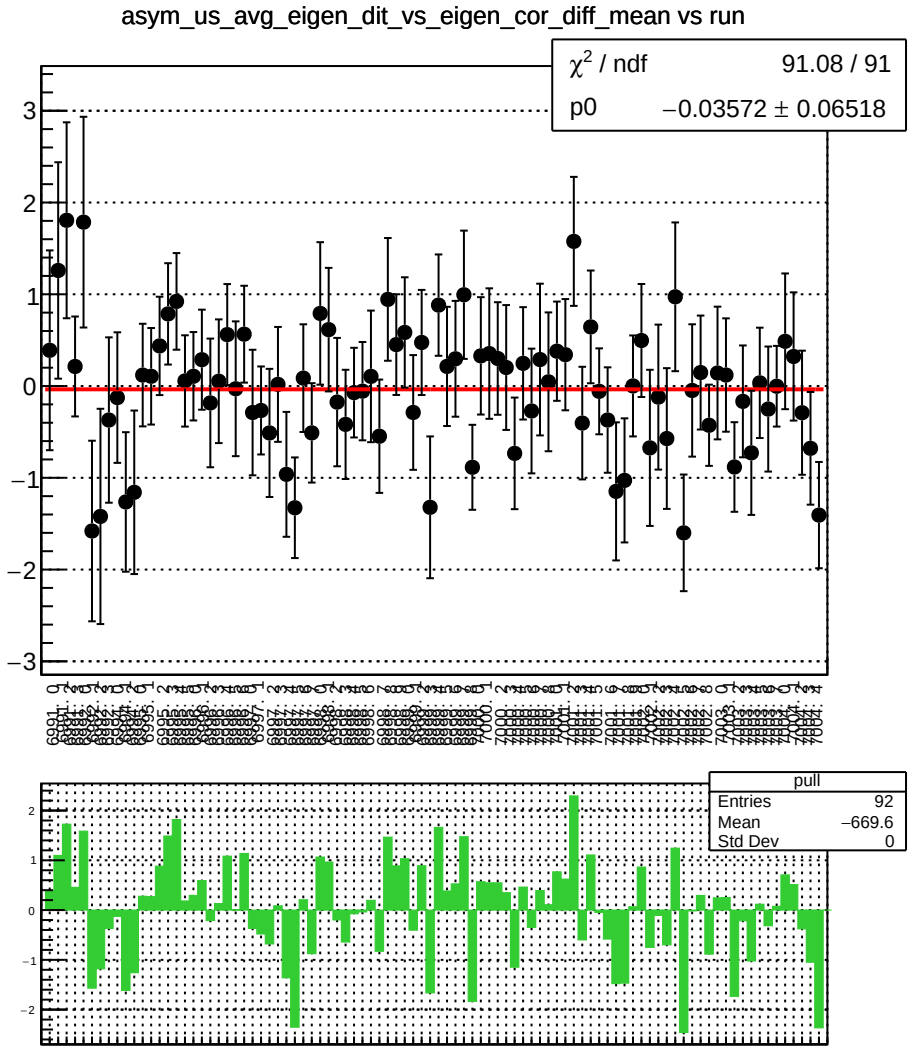

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.66e+04 / 91
p0 82.79 ± 0.06279
130
120
110
100
90
80
70

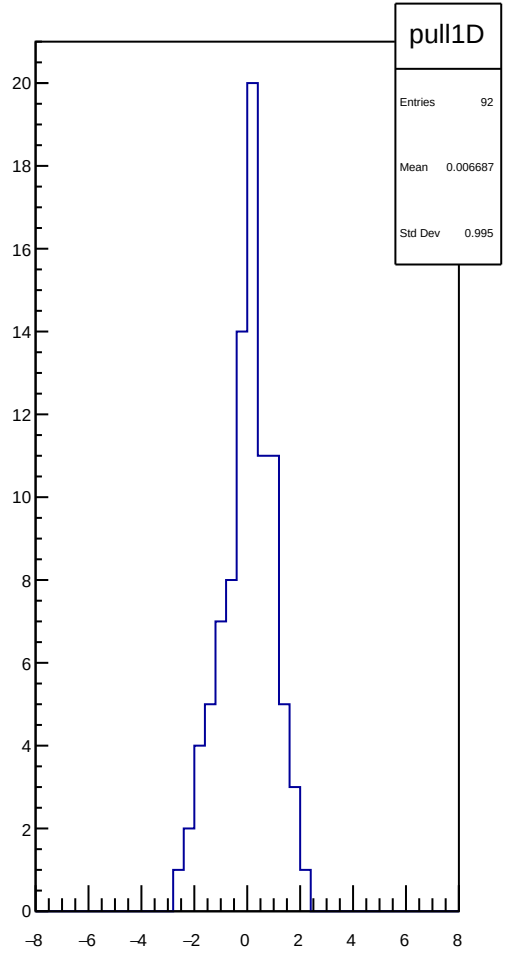

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.56 / 91
p0 −2.926e−06 ± 4.446e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 92
Mean −526.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.006182
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

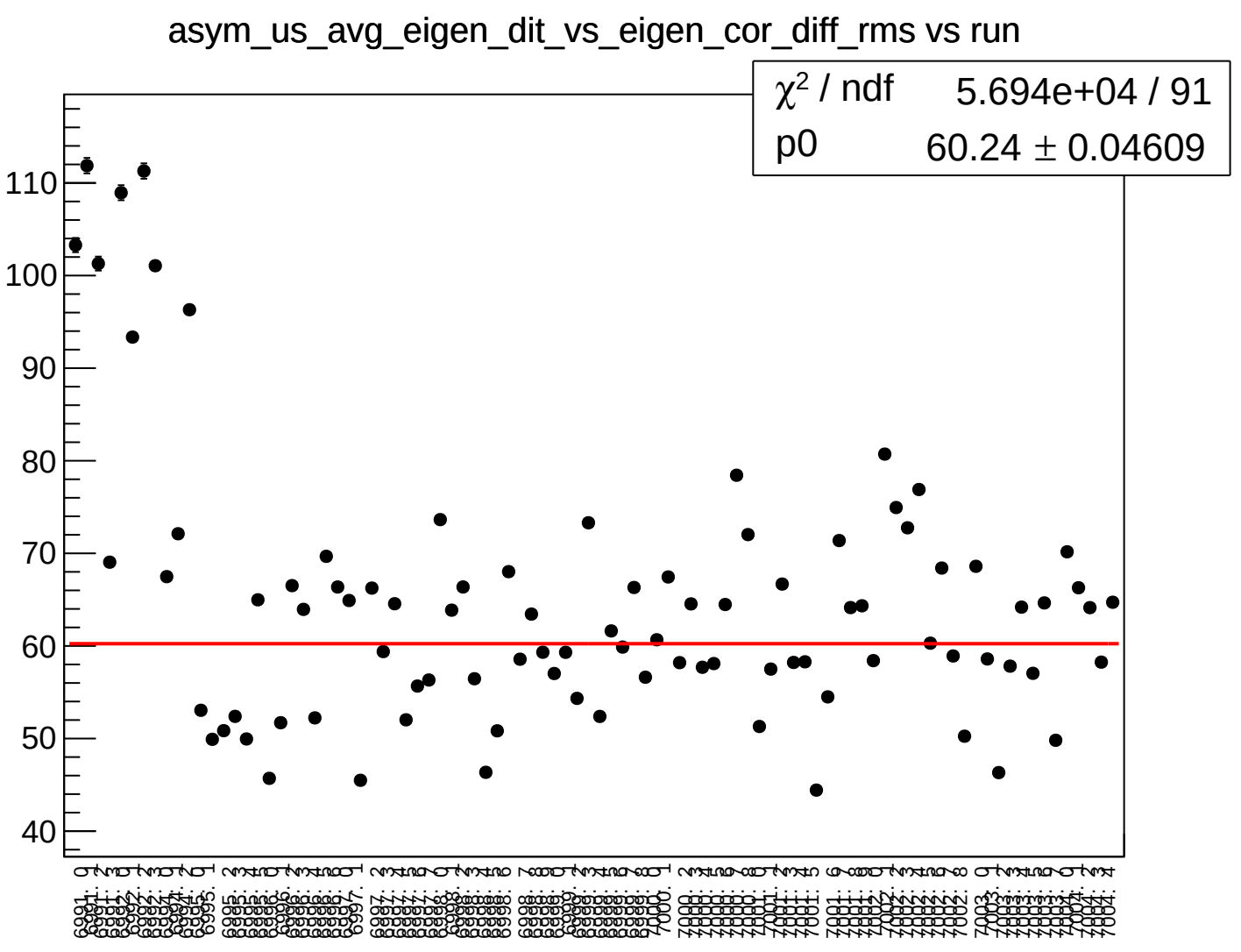

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3295 / 91
p0 0.004173 ± 3.144e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

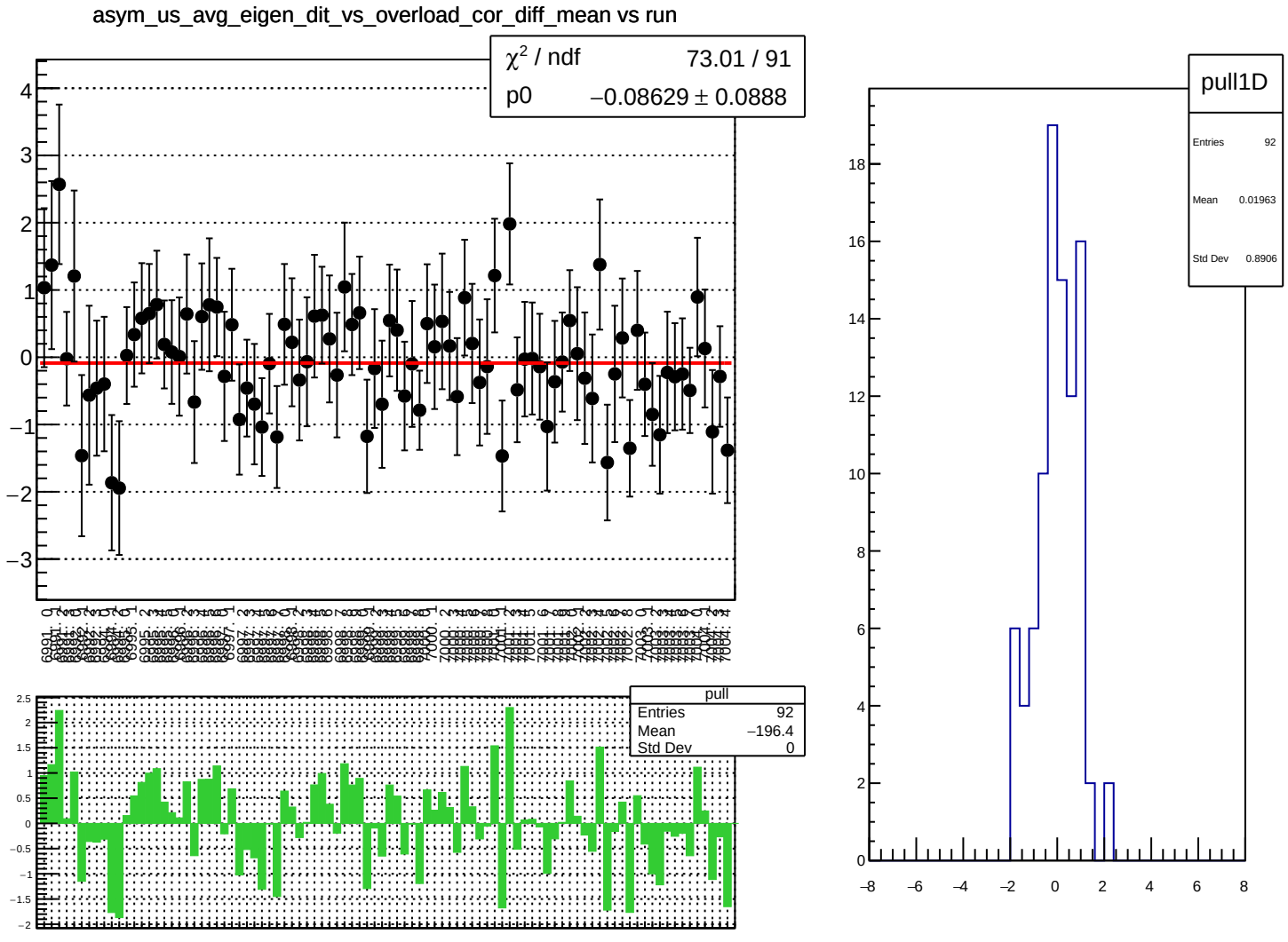

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.08 / 91
p0 −0.03572 ± 0.06518
pull
Entries 92
Mean −669.6
Std Dev 0
pull1D
Entries 92
Mean 0.006687
Std Dev 0.995

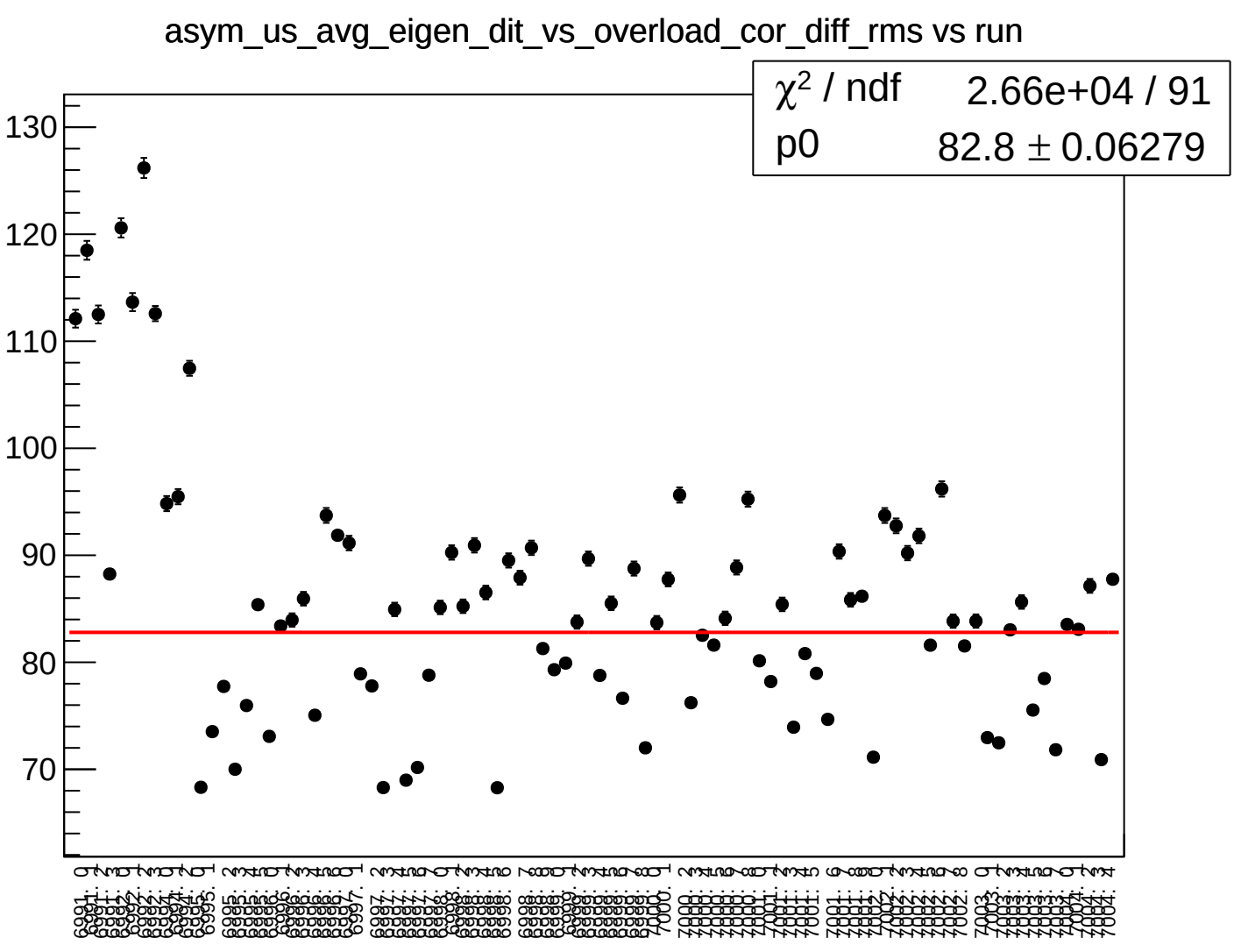

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.694e+04 / 91
p0 60.24 ± 0.04609
110
100
90
80
70
60
50
40

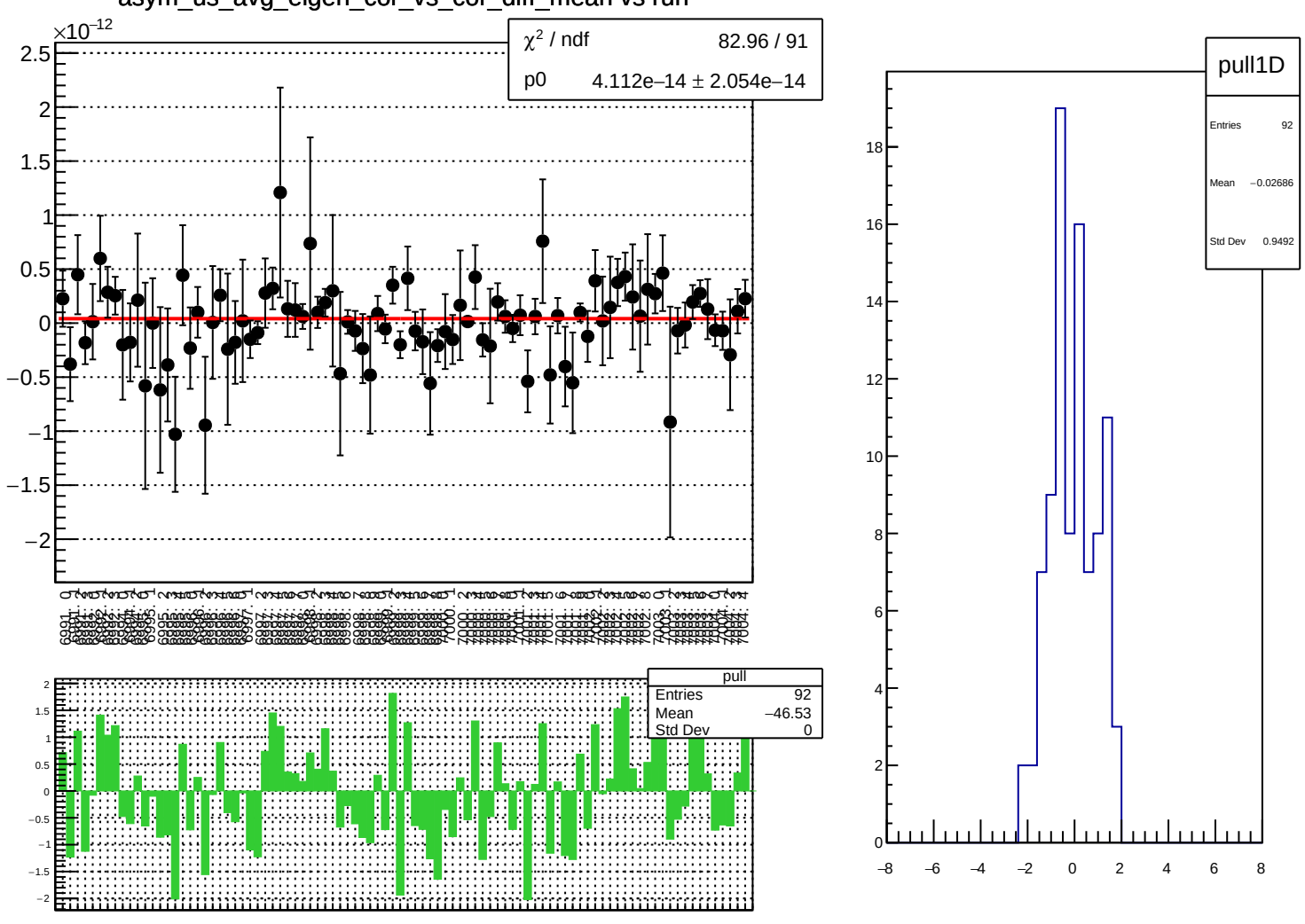

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.08 / 91
p0 −0.03572 ± 0.06518
pull
Entries 92
Mean −669.6
Std Dev 0

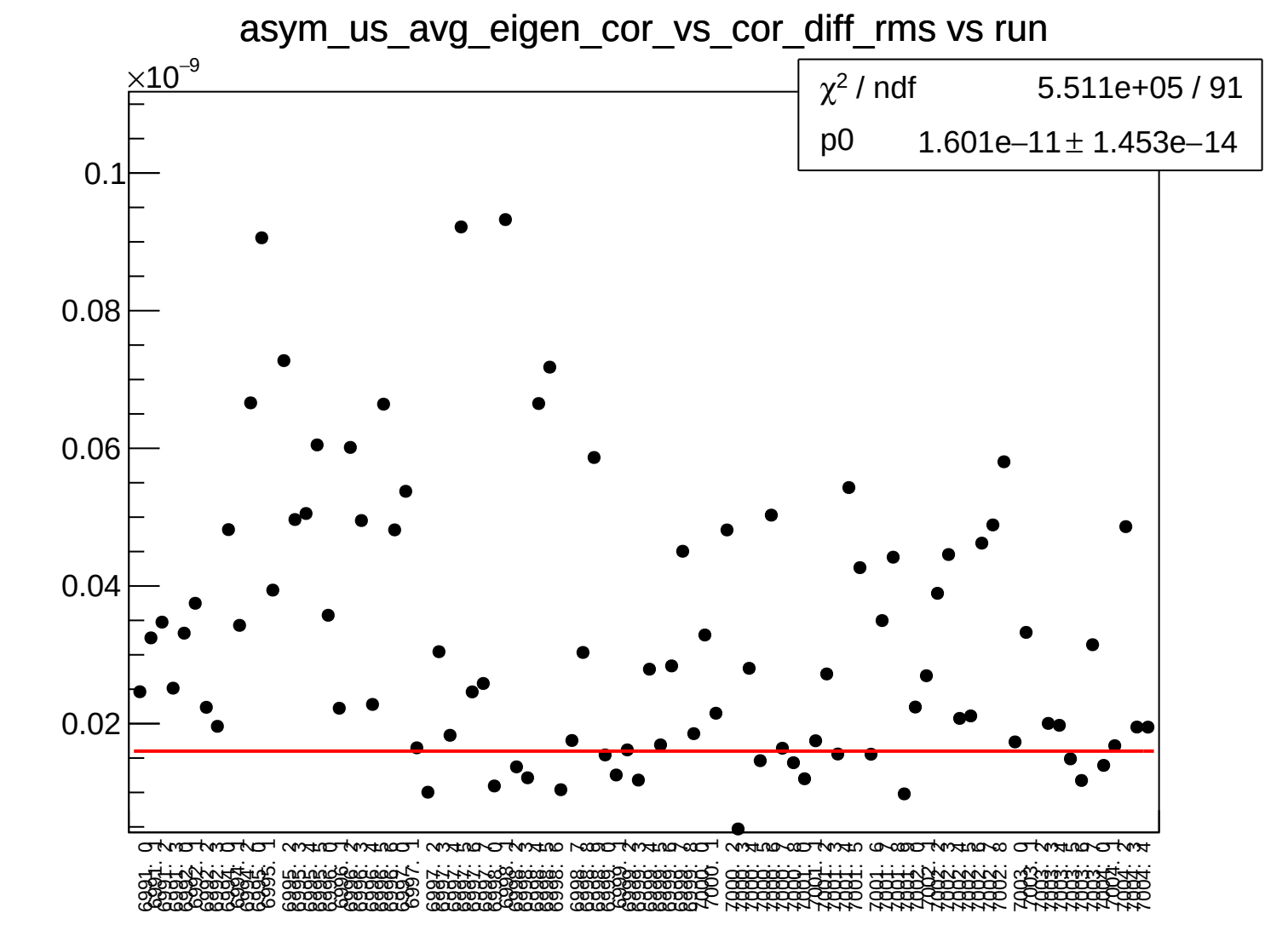

pull1D
Entries 92
Mean 0.006687
Std Dev 0.995

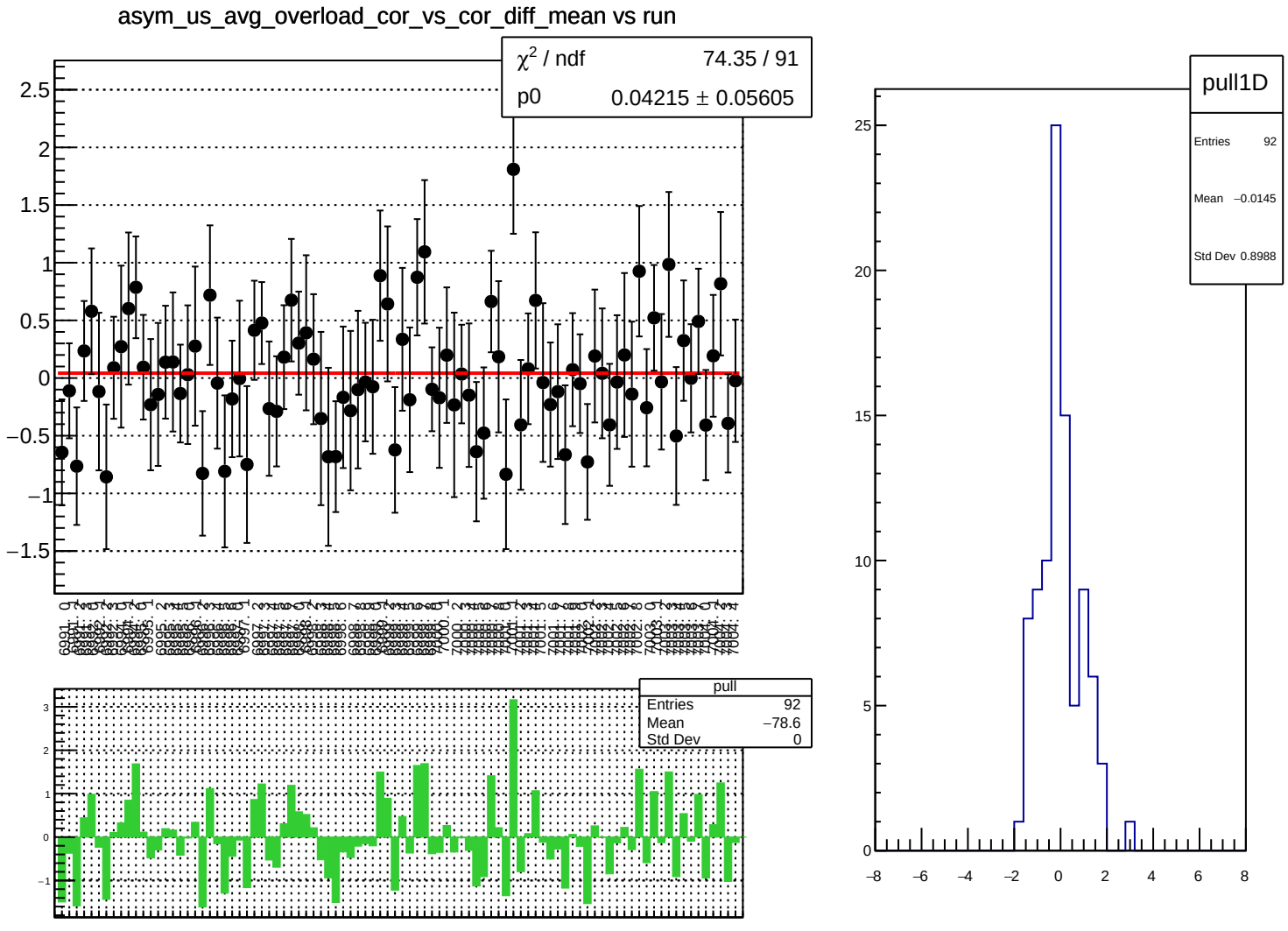

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.694e+04 / 91
p0 60.24 ± 0.04609
110
100
90
80
70
60
50
40

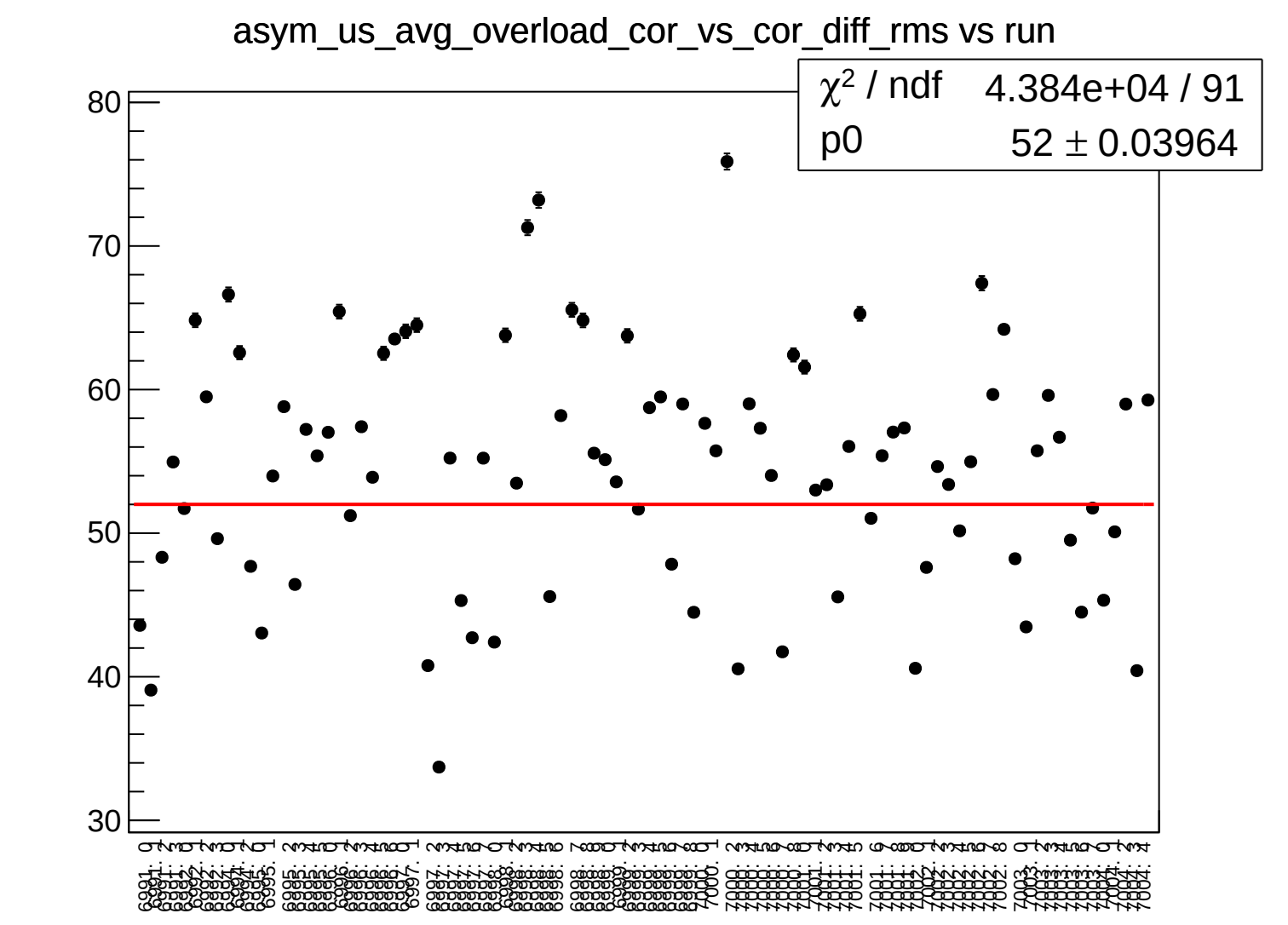

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 73.01 / 91
p0 −0.08629 ± 0.0888
pull
Entries 92
Mean −196.4
Std Dev 0
pull1D
Entries 92
Mean 0.01963
Std Dev 0.8906

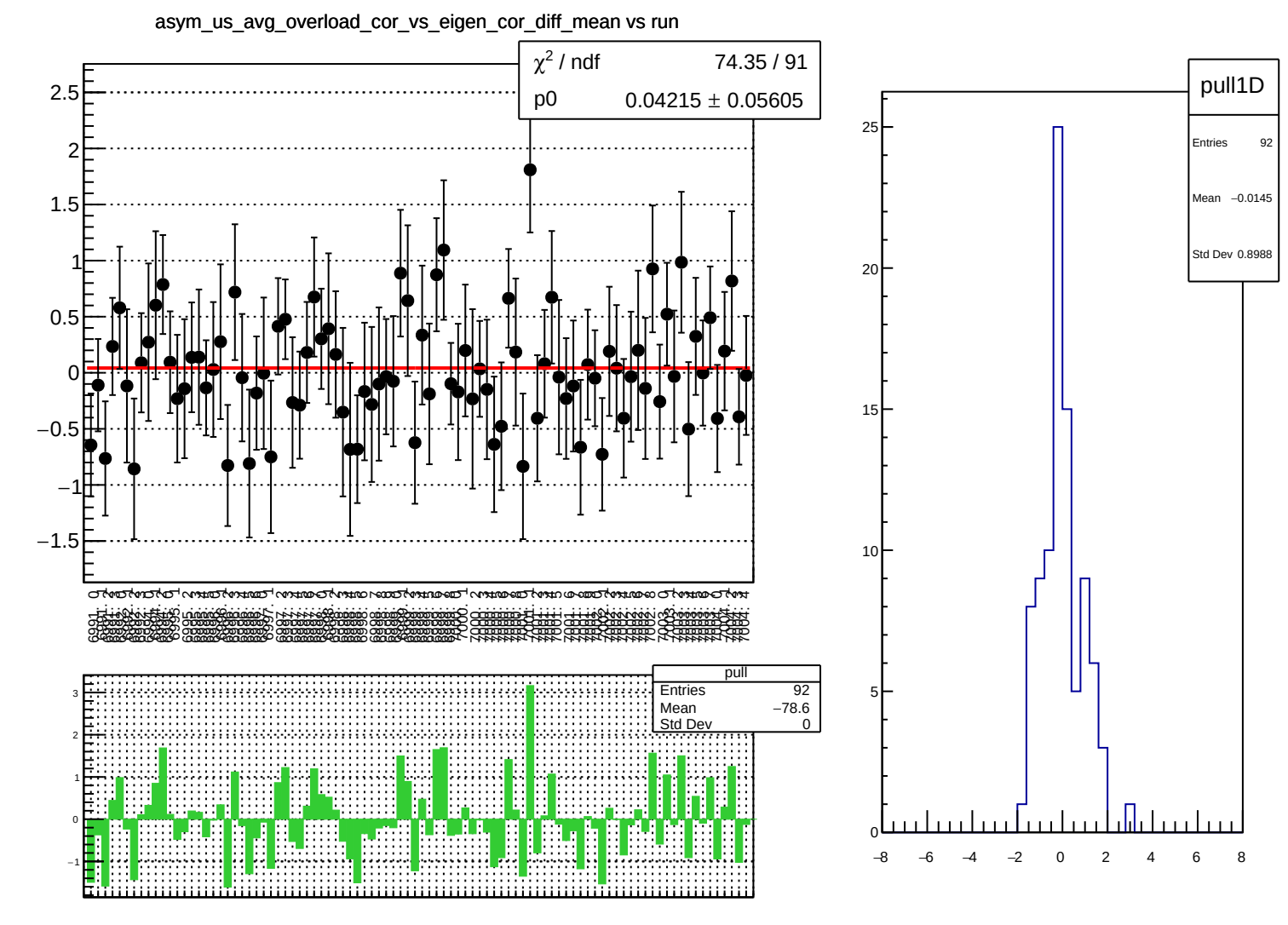

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.66e+04 / 91
p0 82.8 ± 0.06279
130
120
110
100
90
80
70

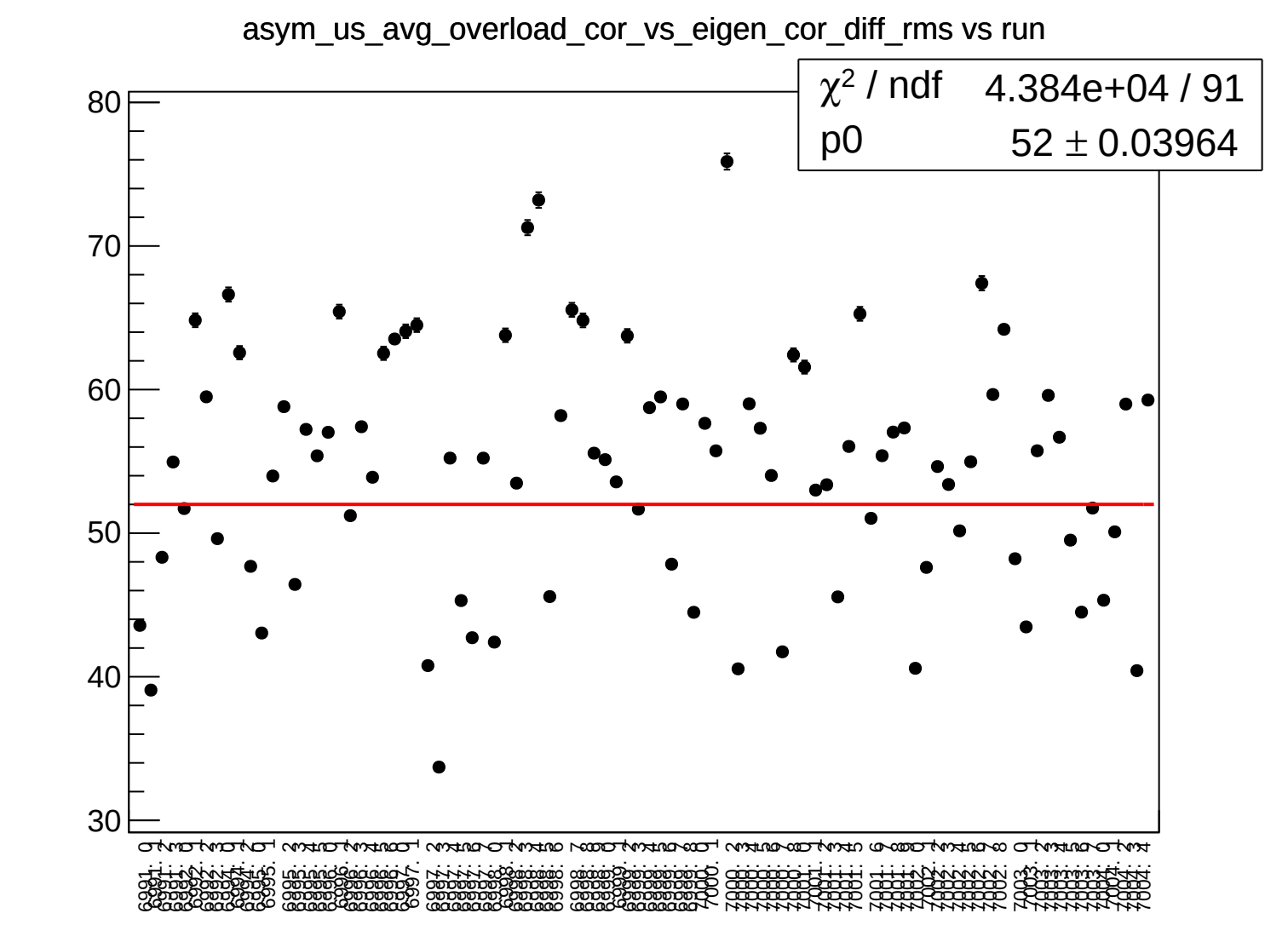

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.96 / 91
p0 4.112e−14 ± 2.054e−14
pull
Entries 92
Mean −46.53
Std Dev 0
pull1D
Entries 92
Mean −0.02686
Std Dev 0.9492

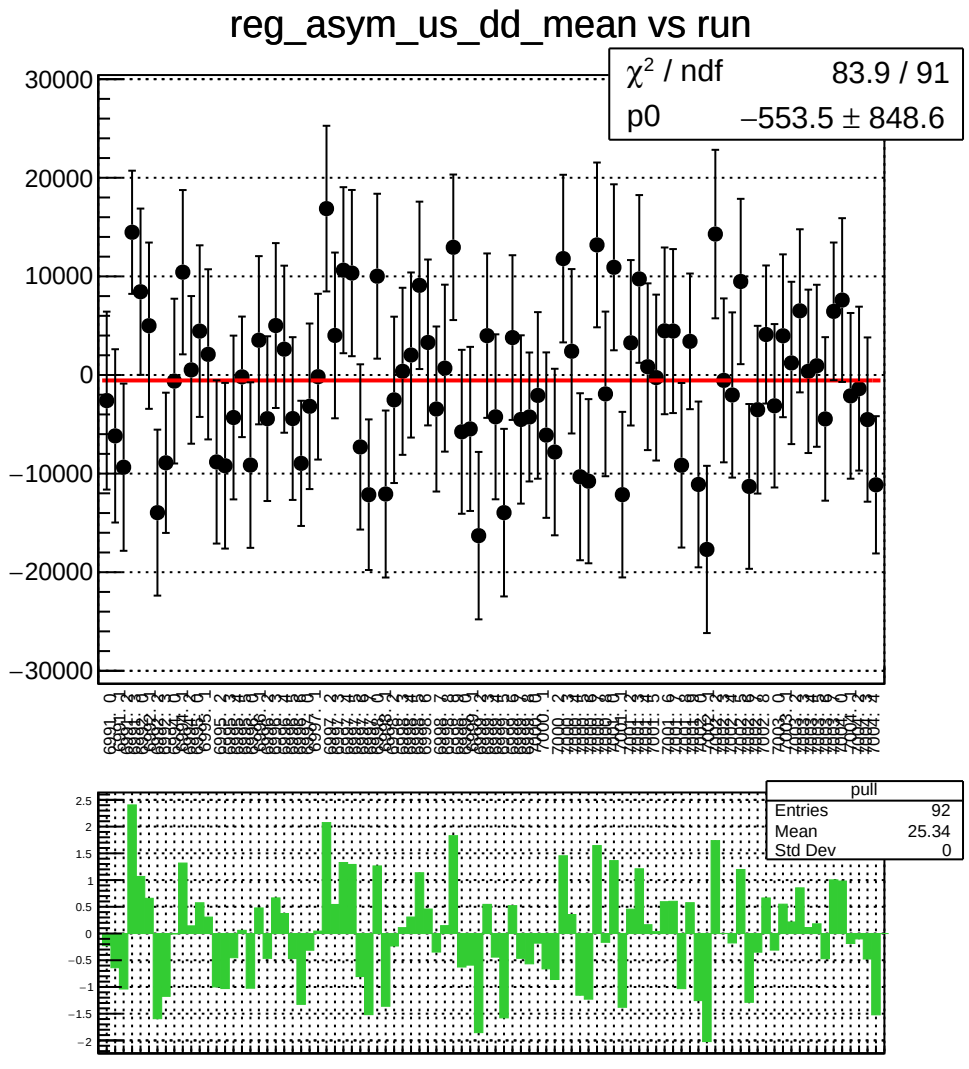

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.511e+05 / 91
p0 1.601e−11 ± 1.453e−14
0.1
0.08
0.06
0.04
0.02

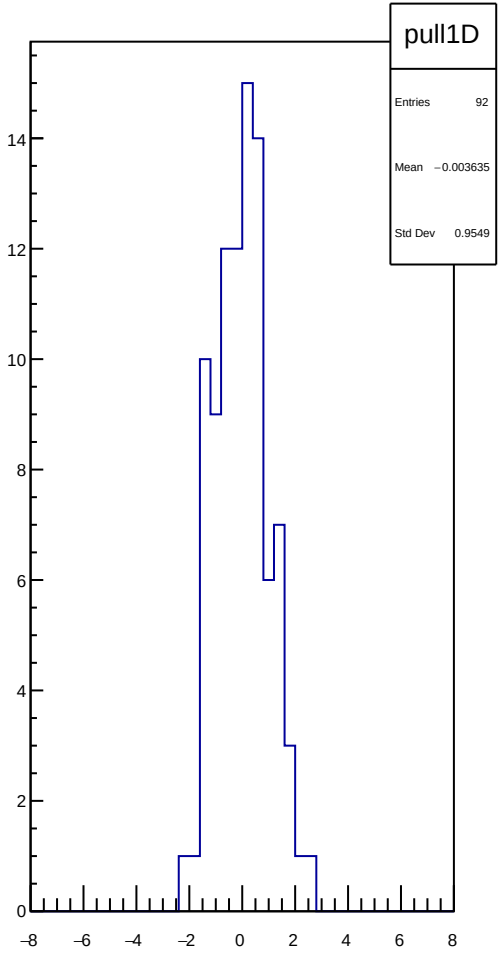

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 74.35 / 91
p0 0.04215 ± 0.05605
pull
Entries 92
Mean −78.6
Std Dev 0
pull1D
Entries 92
Mean −0.0145
Std Dev 0.8988

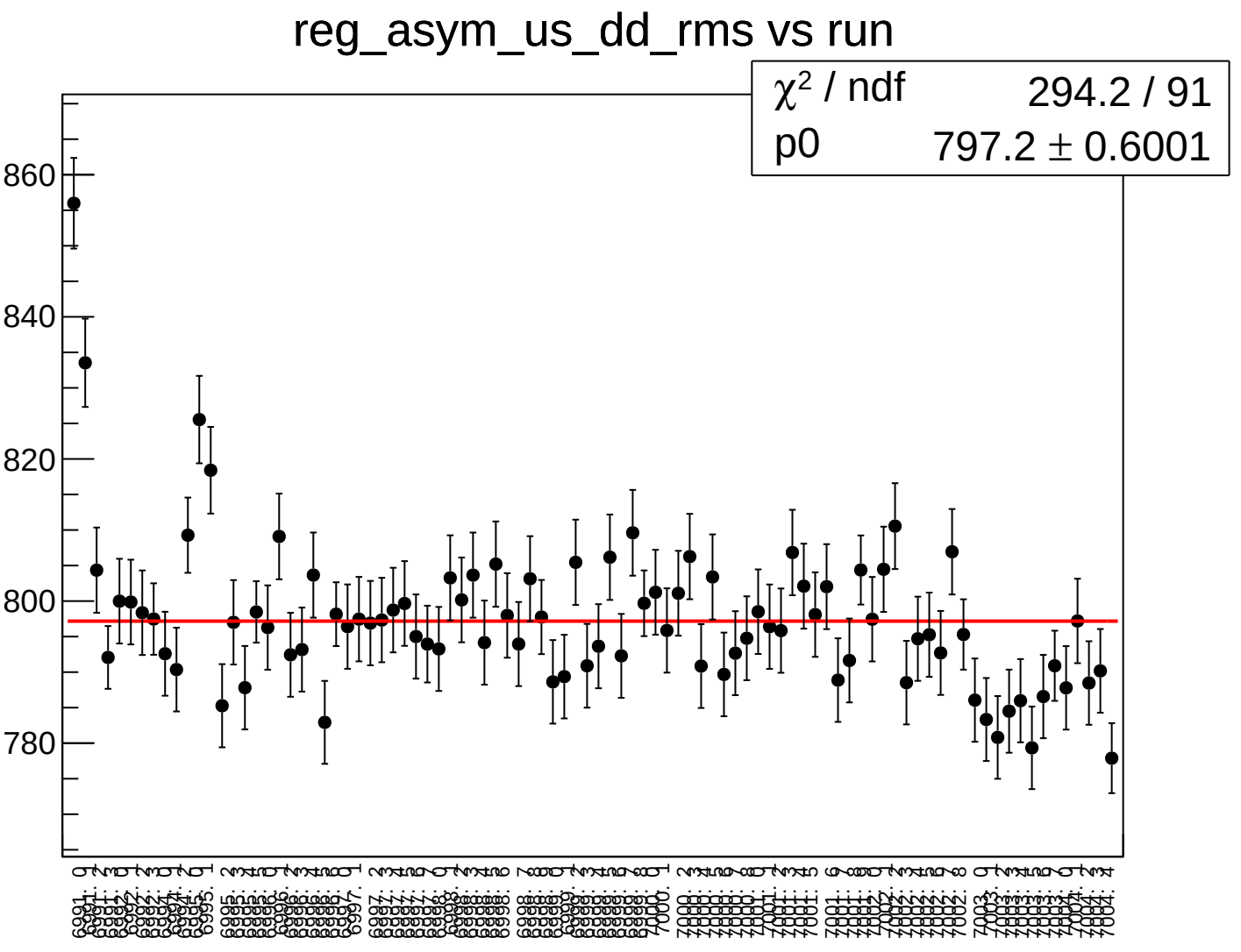

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.384e+04 / 91
p0 52 ± 0.03964
80
70
60
50
40
30

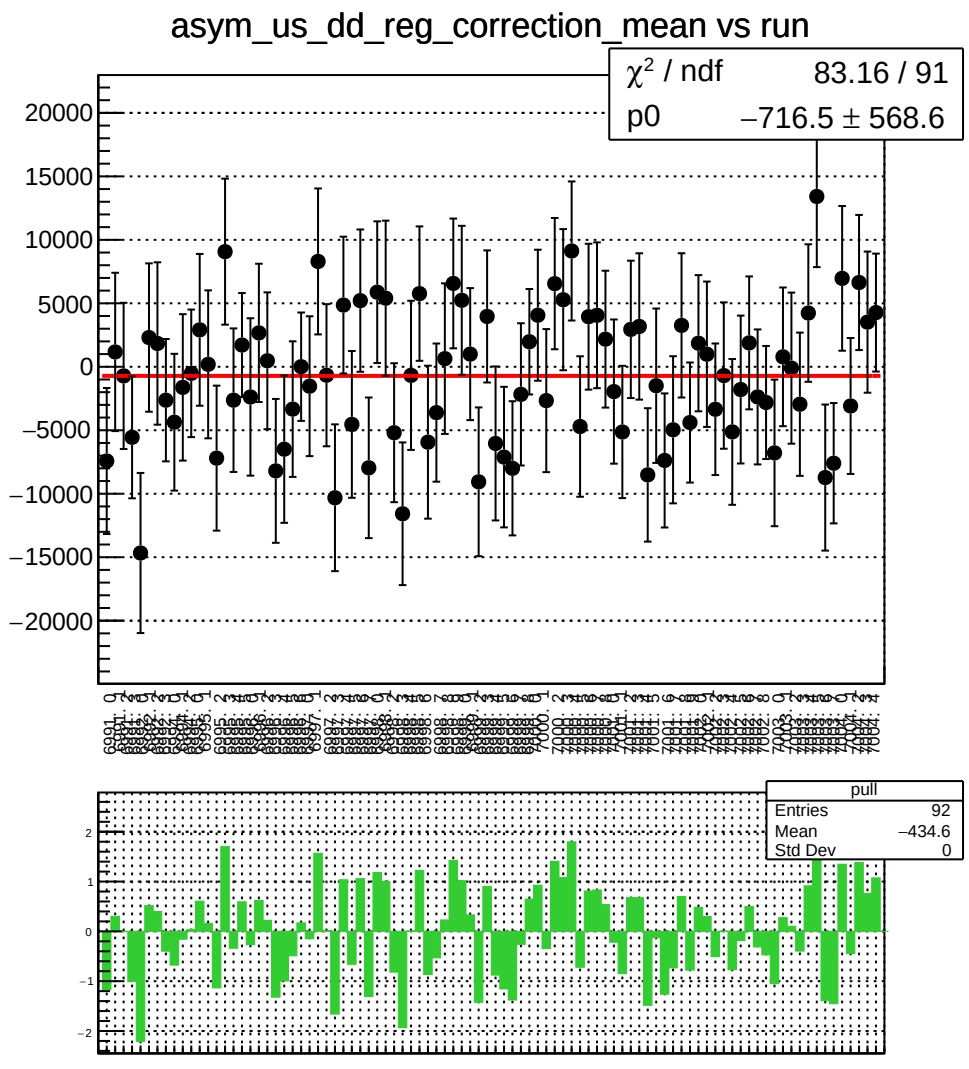

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.35 / 91
p0 0.04215 ± 0.05605
pull
Entries 92
Mean −78.6
Std Dev 0
pull1D
Entries 92
Mean −0.0145
Std Dev 0.8988

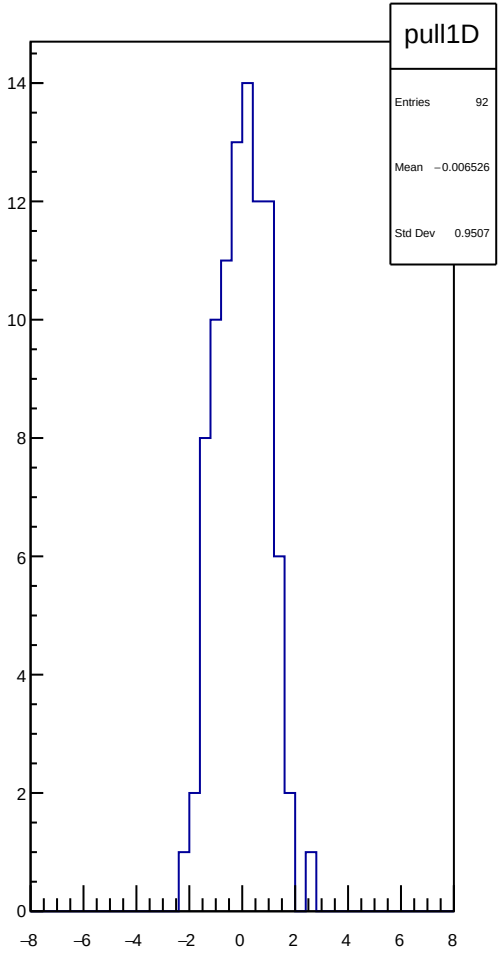

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.384e+04 / 91
p0 52 ± 0.03964
80
70
60
50
40
30

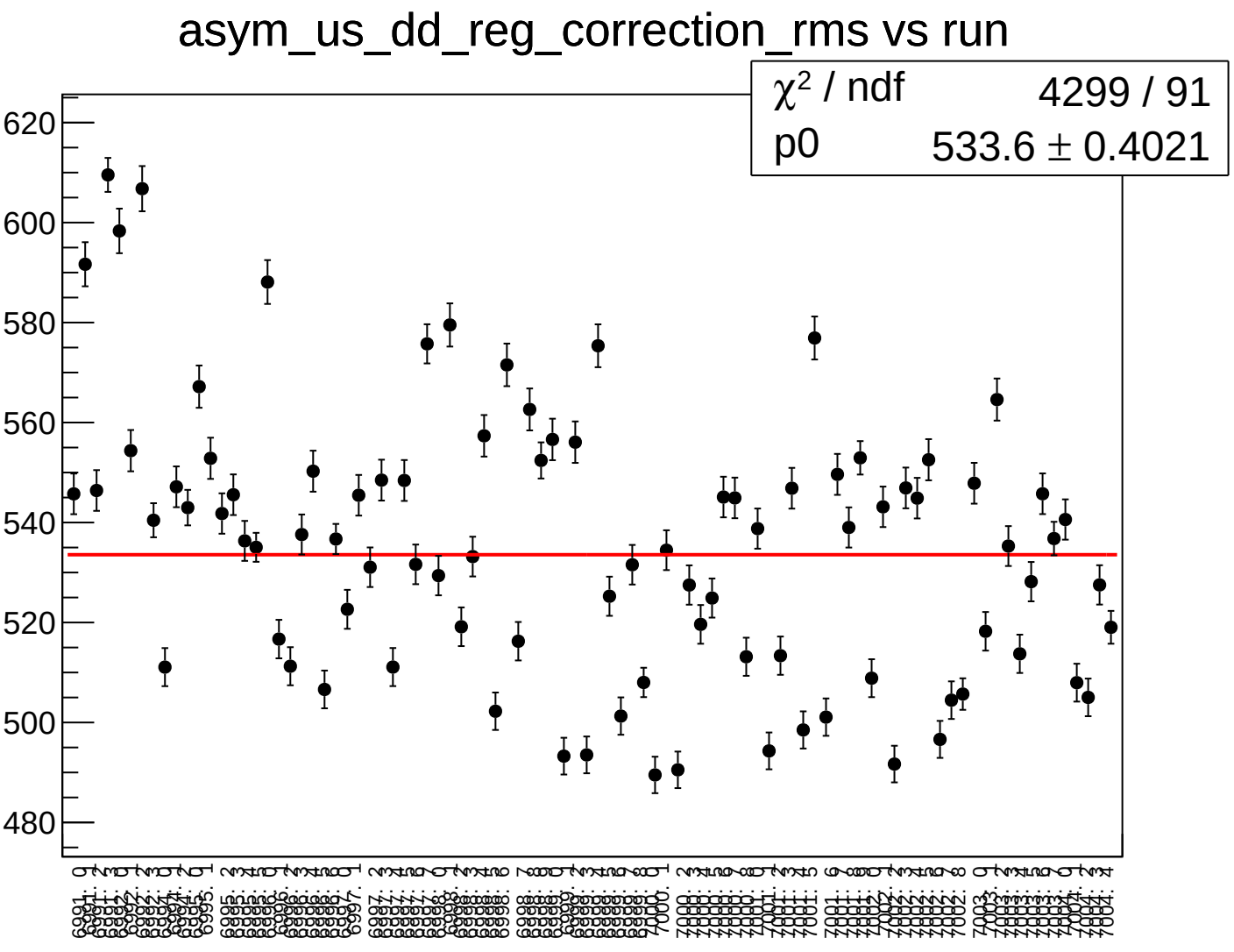

reg_asym_us_dd_mean vs run
χ² / ndf 83.9 / 91
p0 −553.5 ± 848.6
pull
Entries 92
Mean 25.34
Std Dev 0

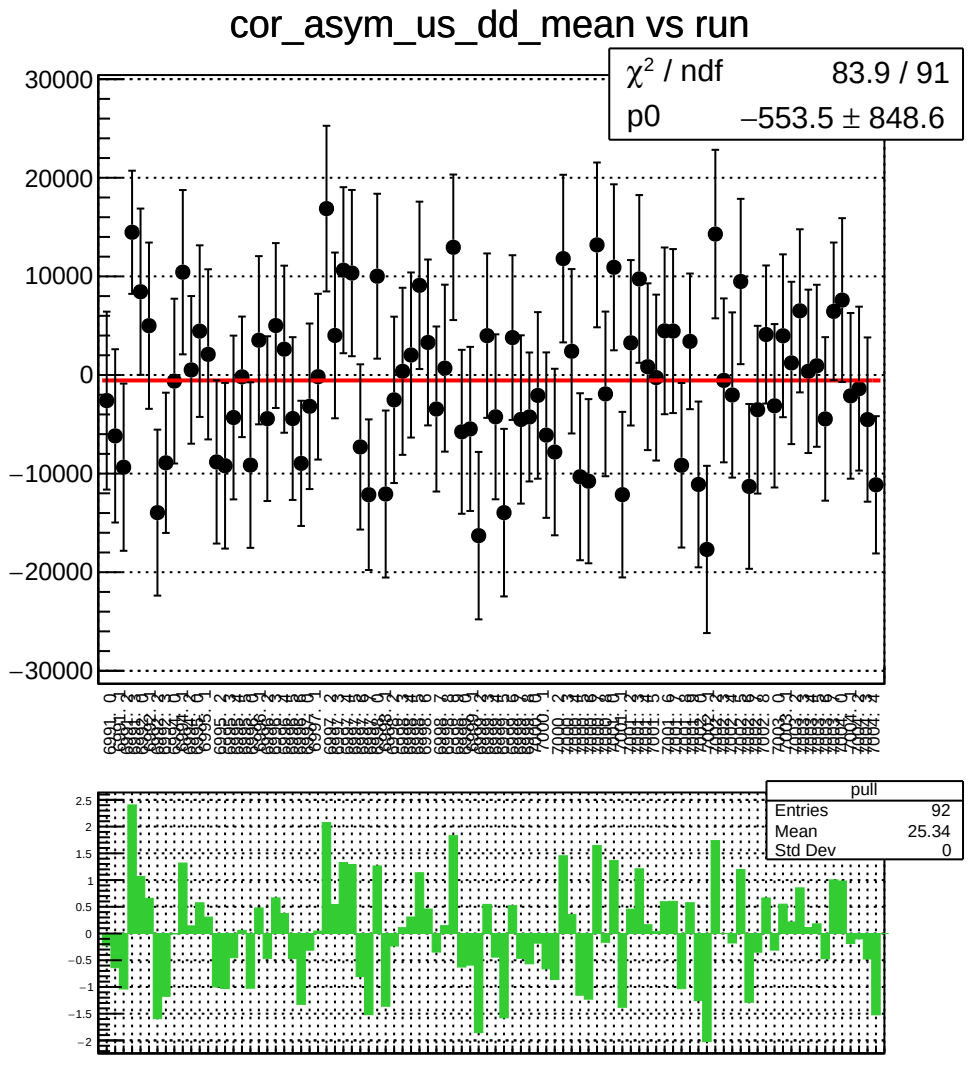

pull1D
Entries 92
Mean −0.003635
Std Dev 0.9549

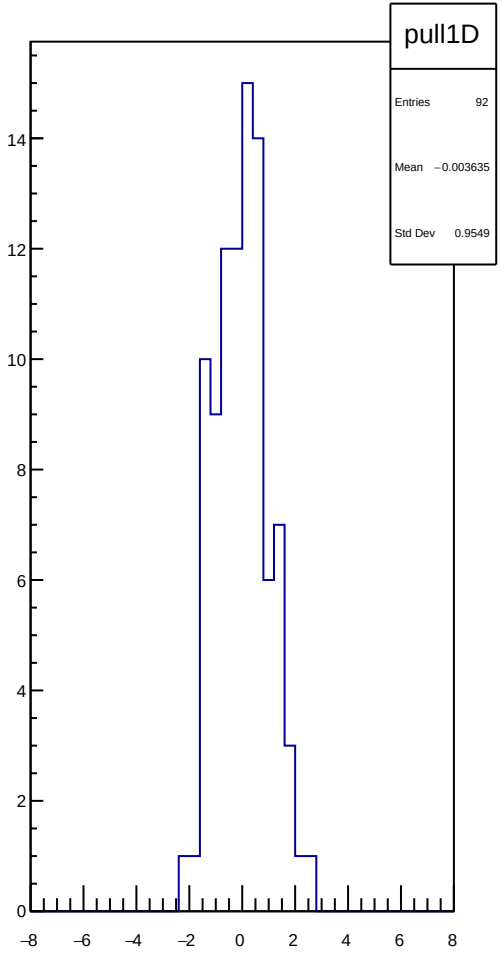

reg_asym_us_dd_rms vs run
χ² / ndf 294.2 / 91
p0 797.2 ± 0.6001
860
840
820
800
780

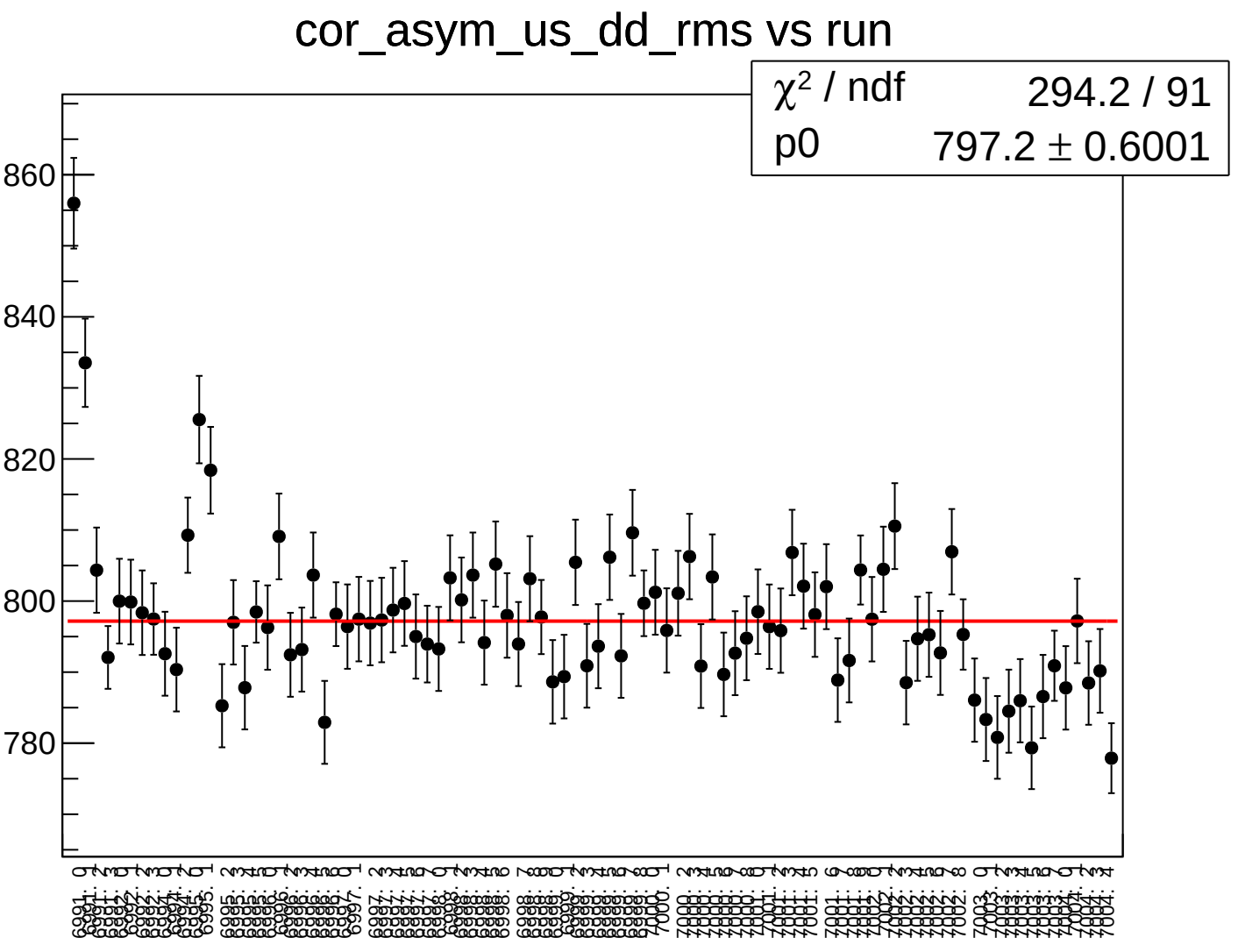

asym_us_dd_reg_correction_mean vs run
χ² / ndf 83.16 / 91
p0 −716.5 ± 568.6
pull
Entries 92
Mean −434.6
Std Dev 0

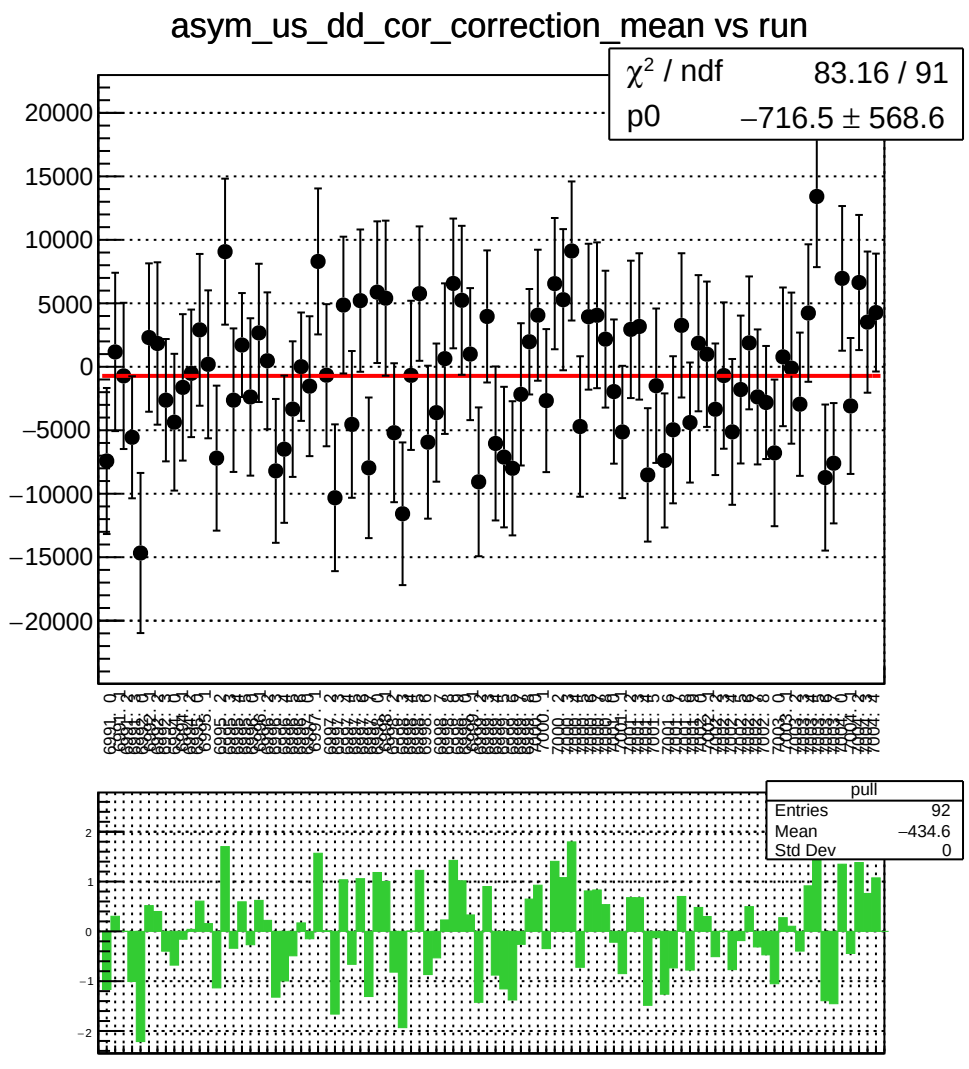

pull1D
Entries 92
Mean −0.006526
Std Dev 0.9507

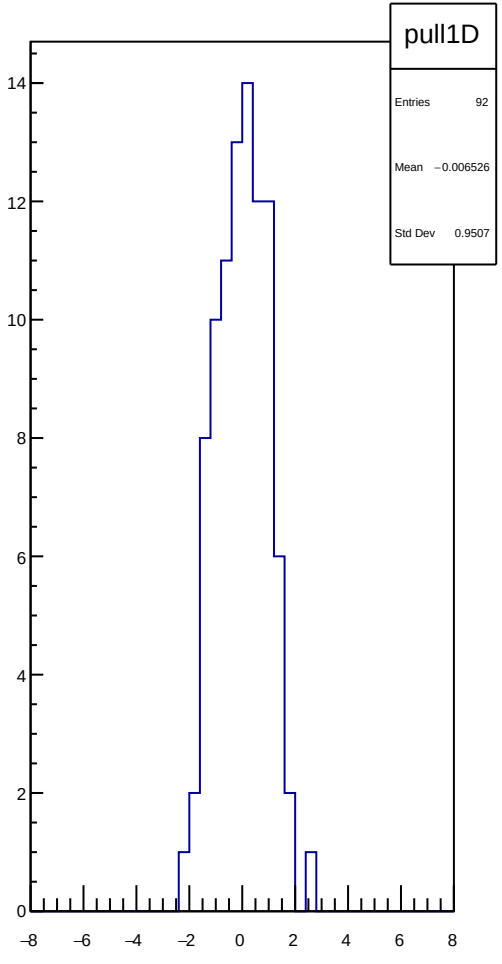

asym_us_dd_reg_correction_rms vs run
χ² / ndf 4299 / 91
p0 533.6 ± 0.4021
620
600
580
560
540
520
500
480

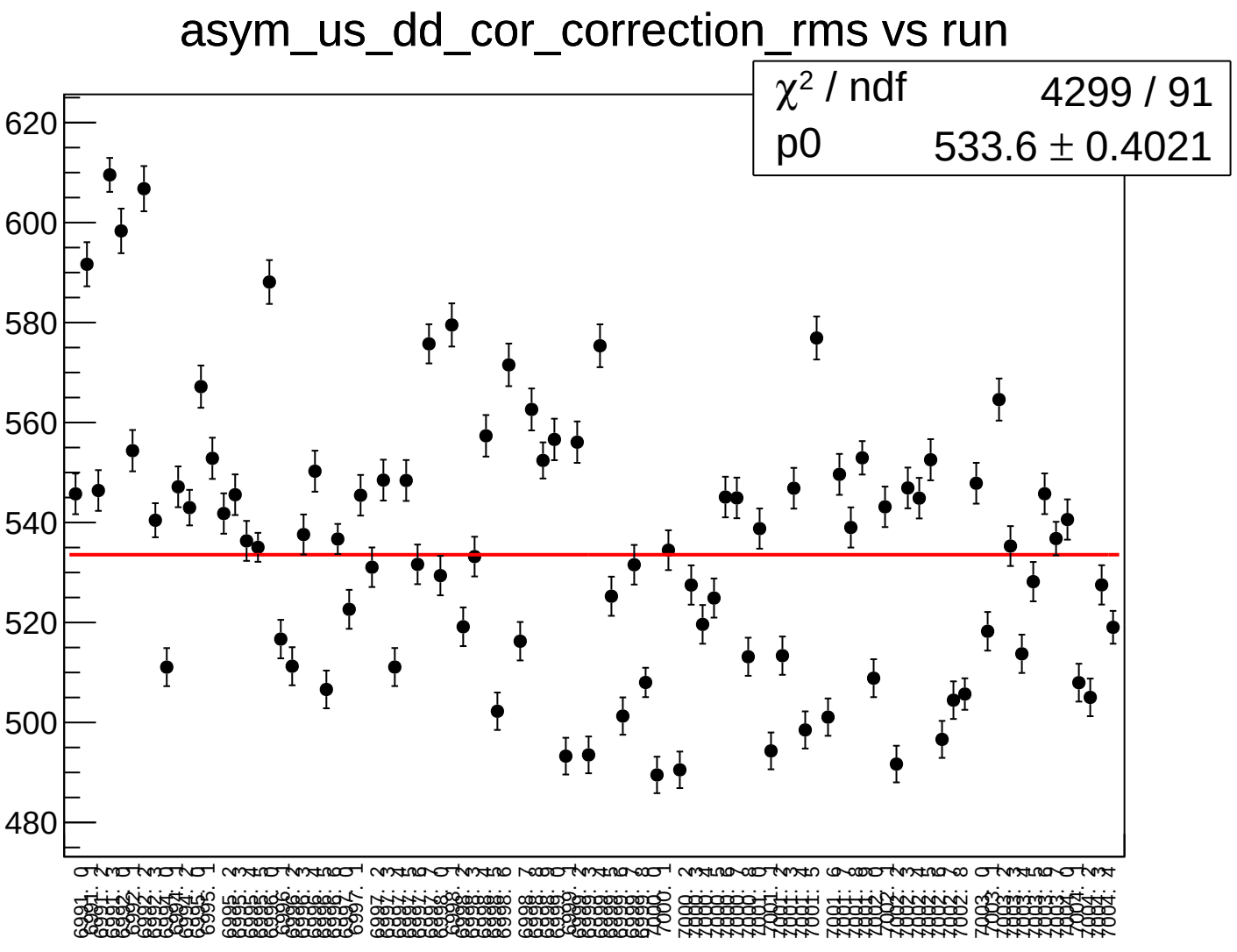

cor_asym_us_dd_mean vs run
χ² / ndf 83.9 / 91
p0 −553.5 ± 848.6
pull
Entries 92
Mean 25.34
Std Dev 0

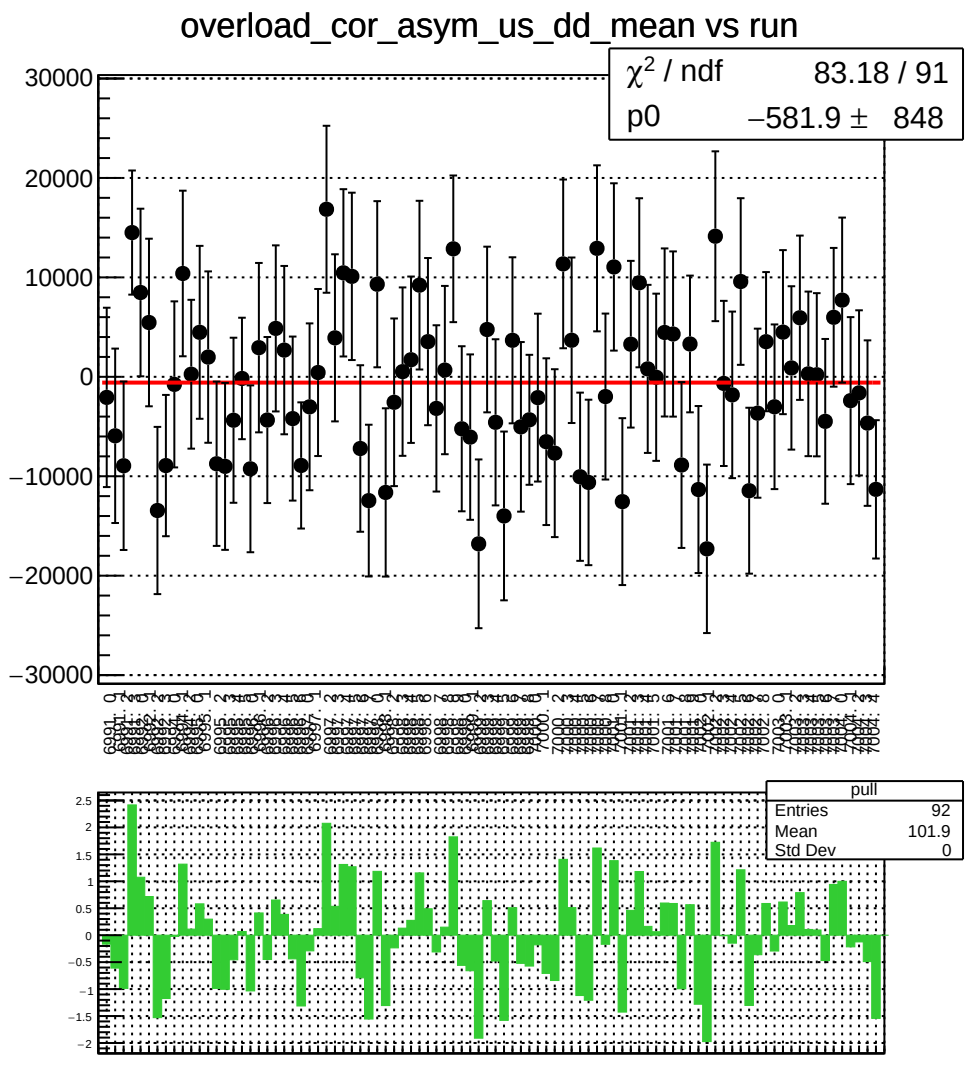

pull1D
Entries 92
Mean −0.003635
Std Dev 0.9549

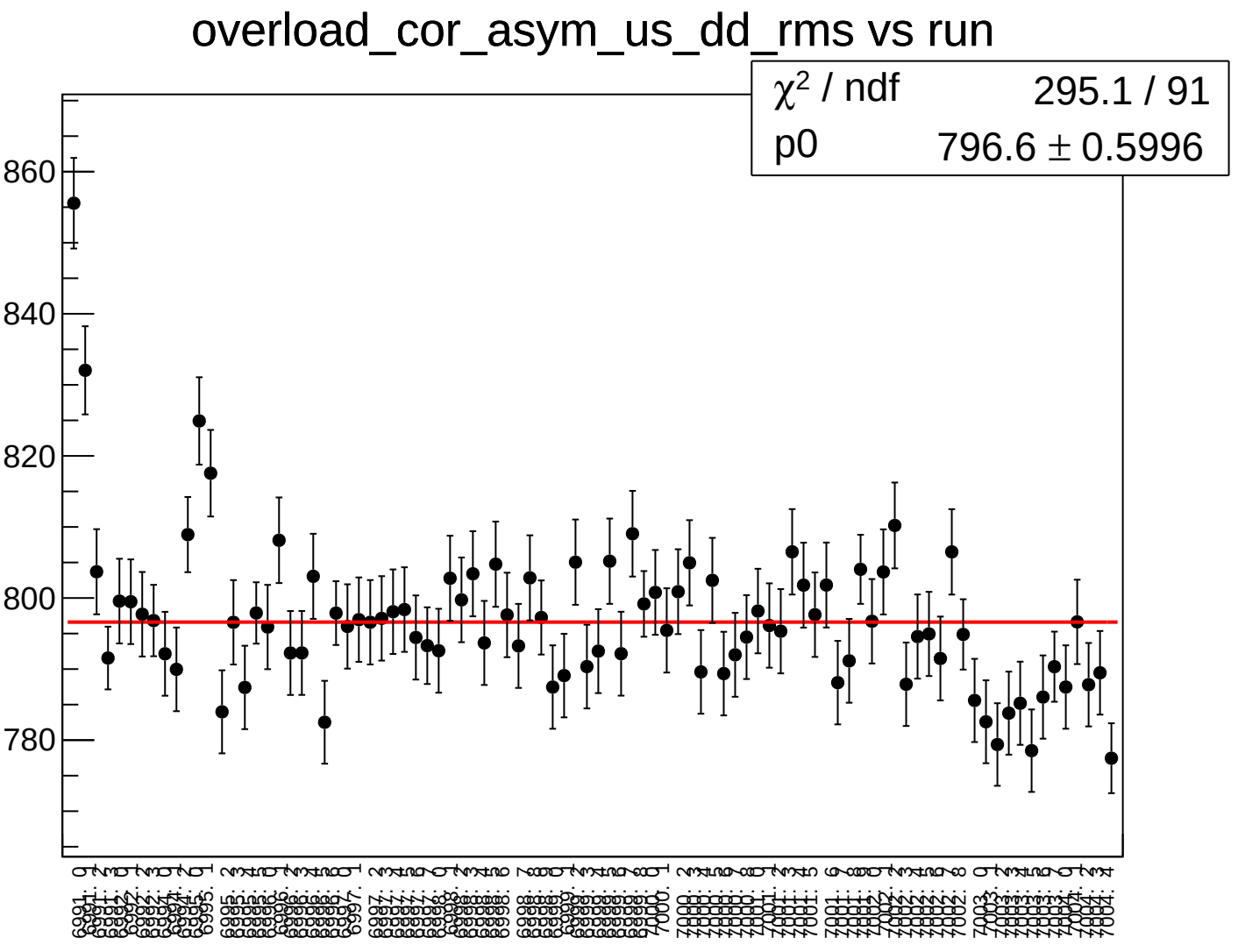

cor_asym_us_dd_rms vs run
χ² / ndf 294.2 / 91
p0 797.2 ± 0.6001
860
840
820
800
780

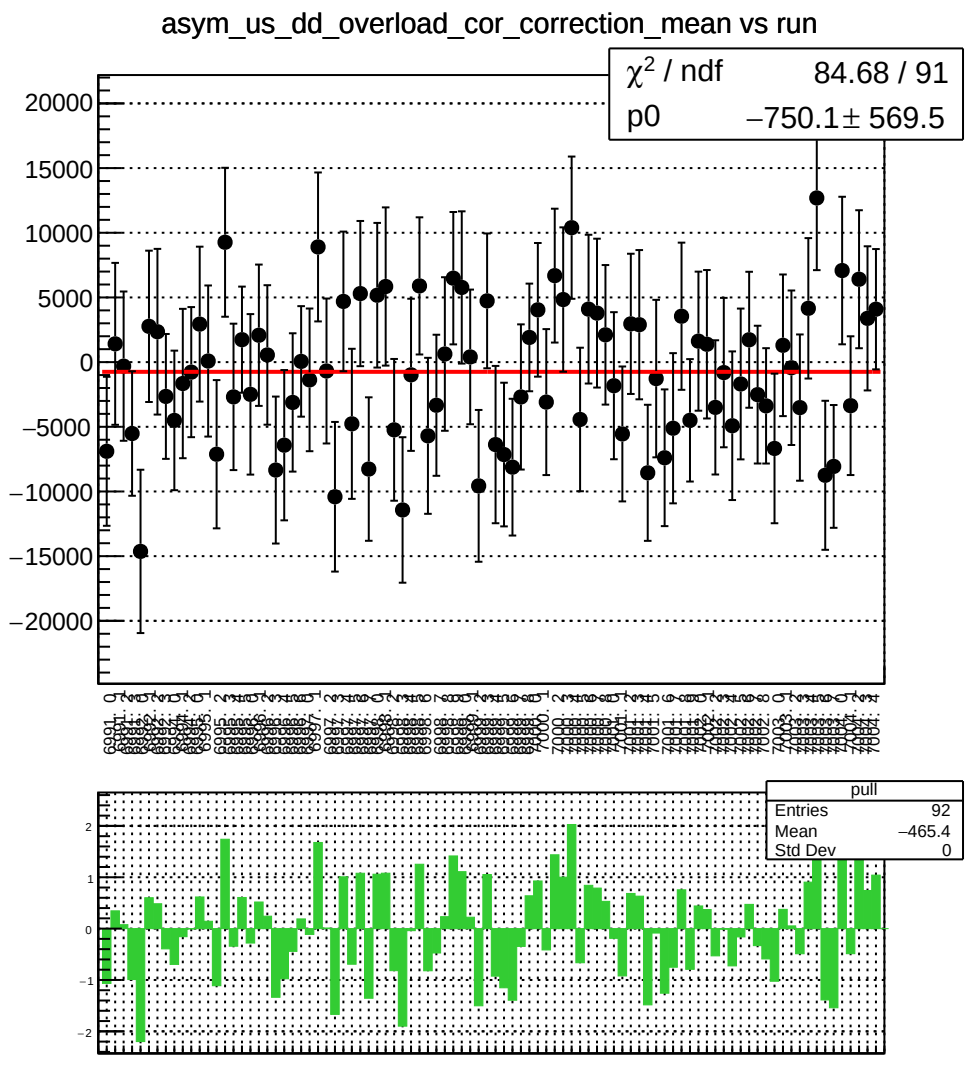

asym_us_dd_cor_correction_mean vs run
χ² / ndf 83.16 / 91
p0 −716.5 ± 568.6
pull
Entries 92
Mean −434.6
Std Dev 0

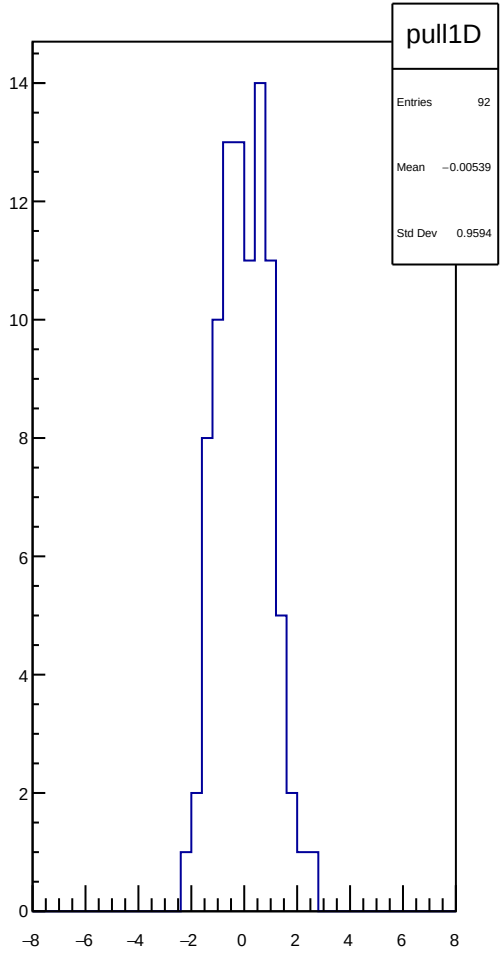

pull1D
Entries 92
Mean −0.006526
Std Dev 0.9507

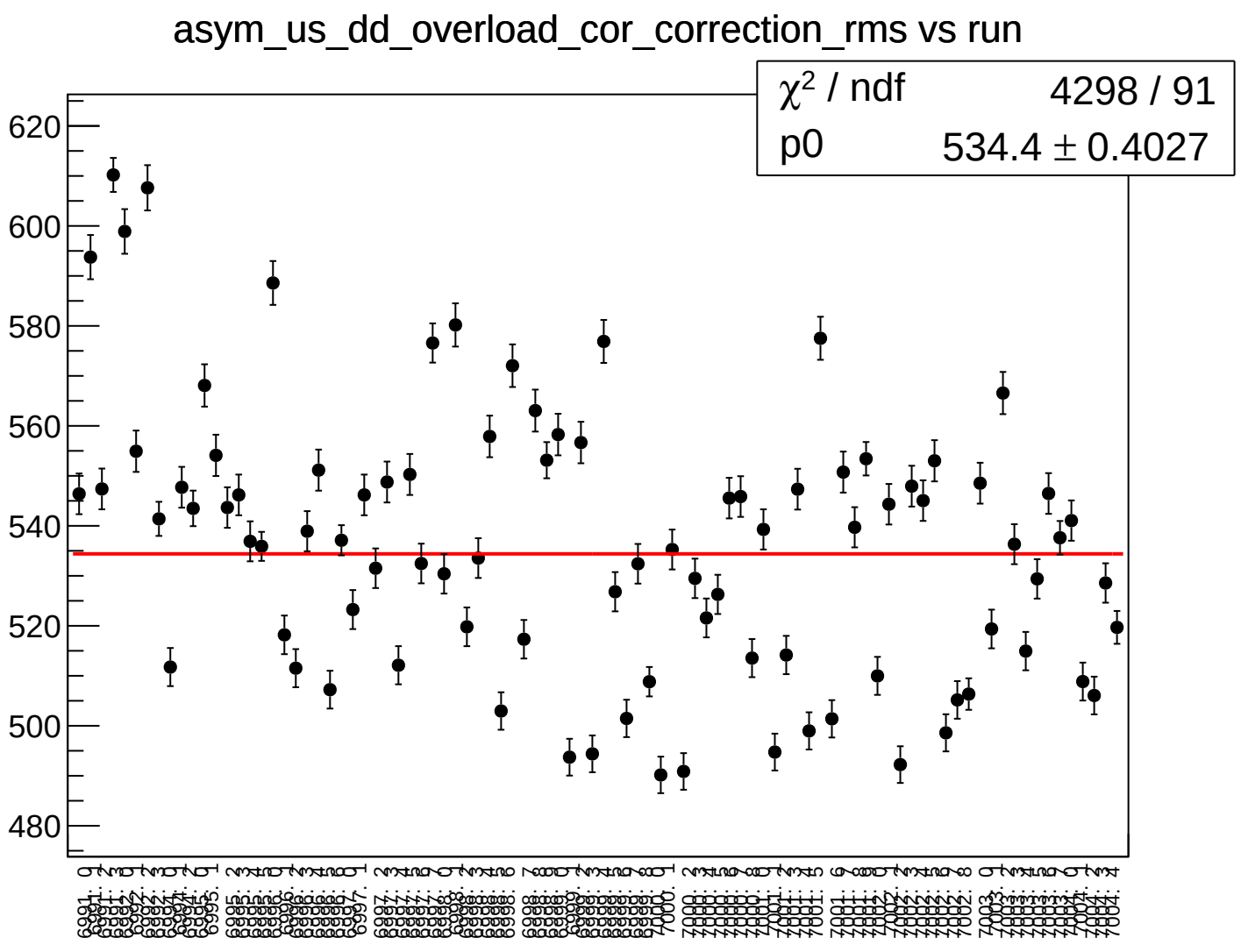

asym_us_dd_cor_correction_rms vs run
χ² / ndf 4299 / 91
p0 533.6 ± 0.4021
620
600
580
560
540
520
500
480

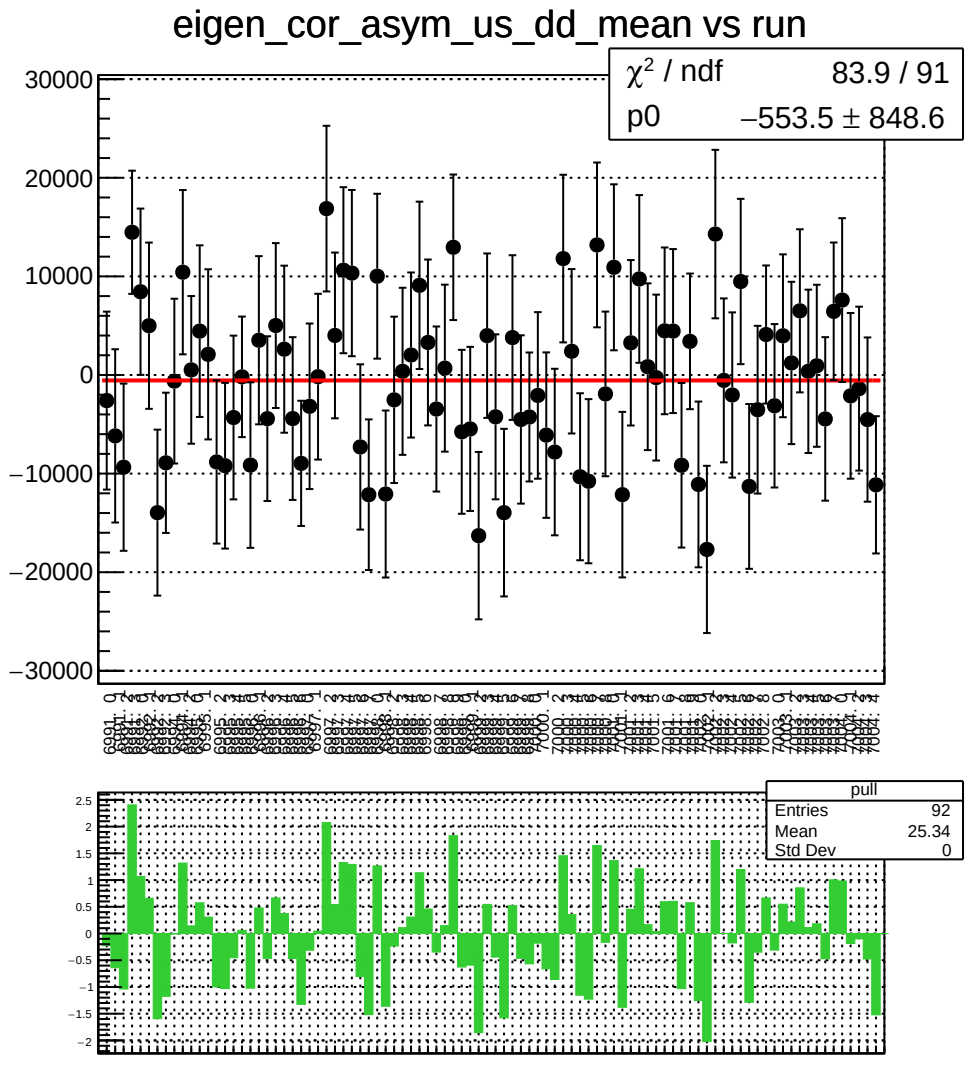

overload_cor_asym_us_dd_mean vs run
χ² / ndf 83.18 / 91
p0 −581.9 ± 848
pull
Entries 92
Mean 101.9
Std Dev 0
pull1D
Entries 92
Mean −0.003187
Std Dev 0.9509

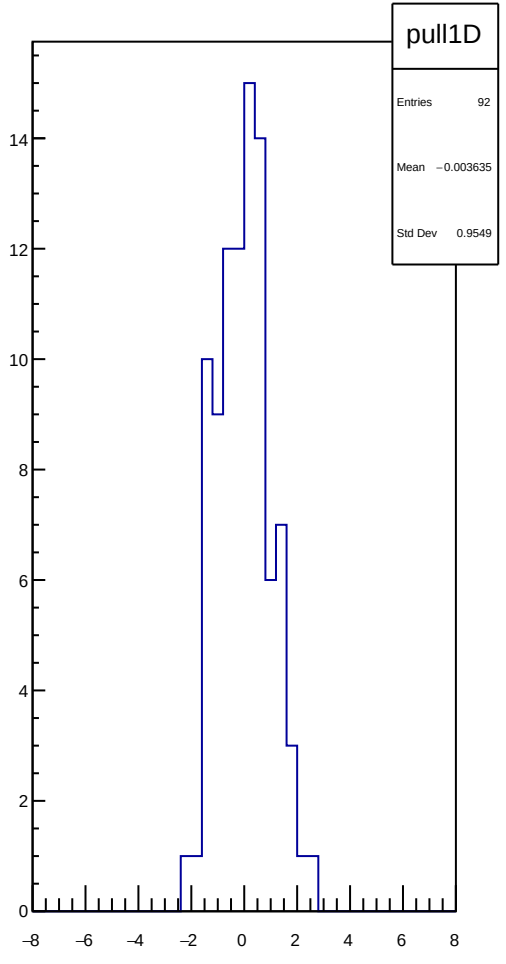

overload_cor_asym_us_dd_rms vs run
χ² / ndf 295.1 / 91
p0 796.6 ± 0.5996
860
840
820
800
780

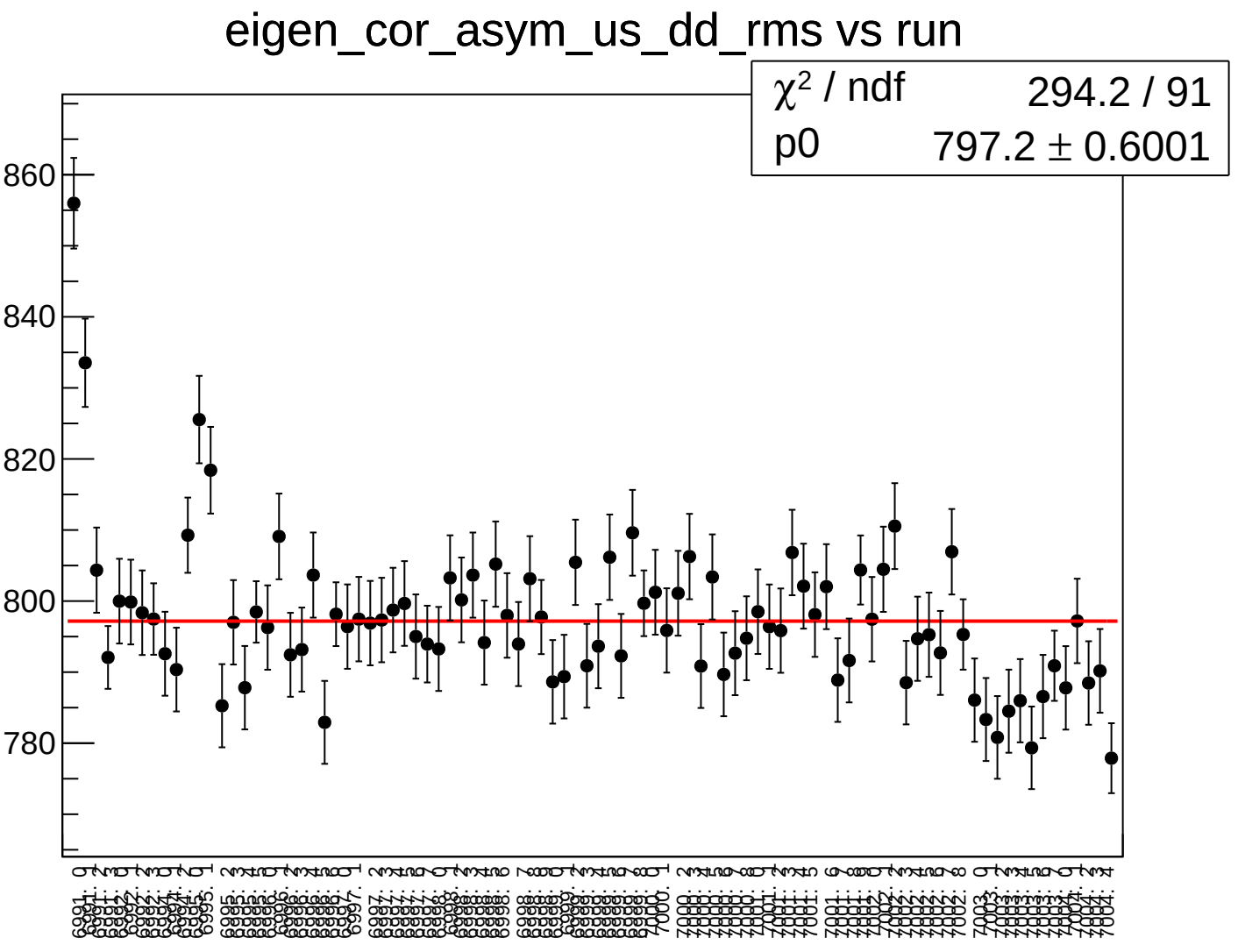

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 84.68 / 91
p0 −750.1 ± 569.5
pull
Entries 92
Mean −465.4
Std Dev 0

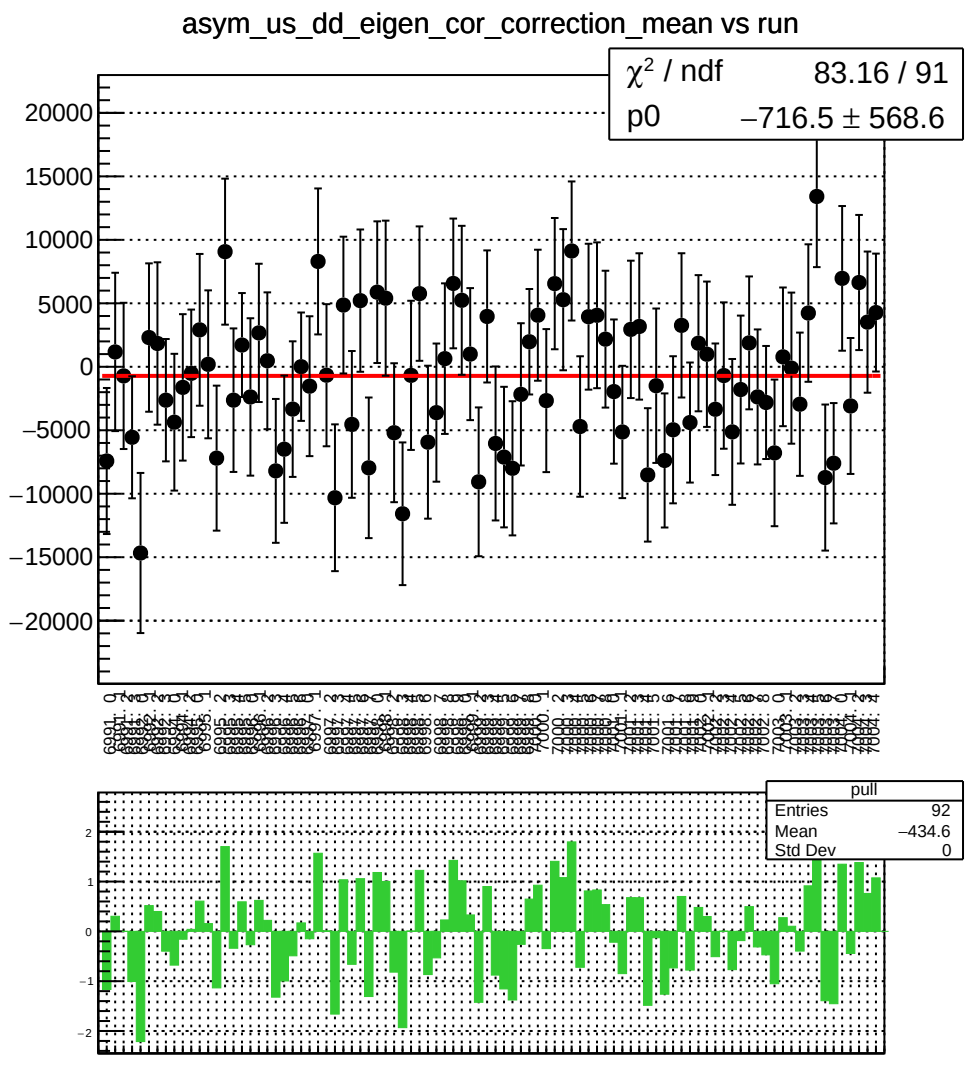

pull1D
Entries 92
Mean −0.00539
Std Dev 0.9594

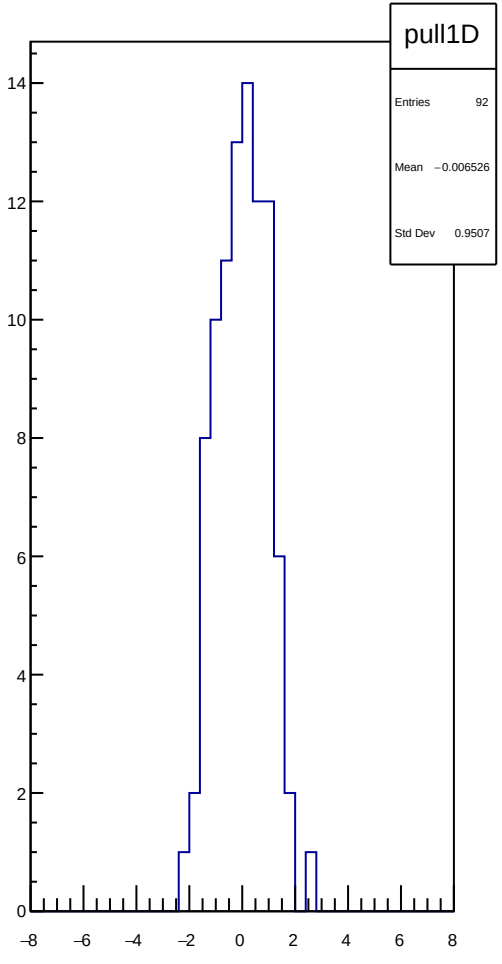

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 4298 / 91
p0 534.4 ± 0.4027
620
600
580
560
540
520
500
480

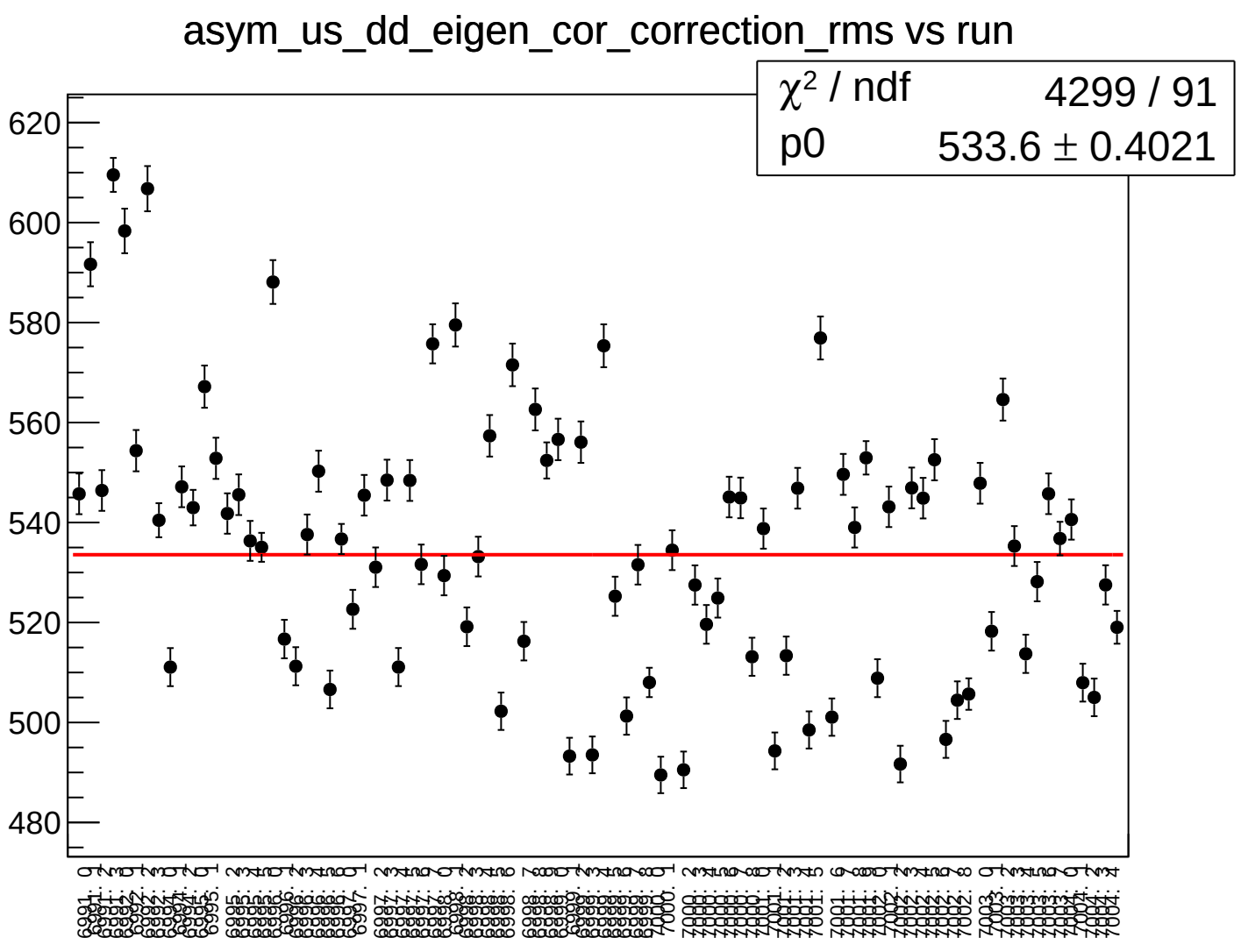

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 83.9 / 91
p0 −553.5 ± 848.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 25.34
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

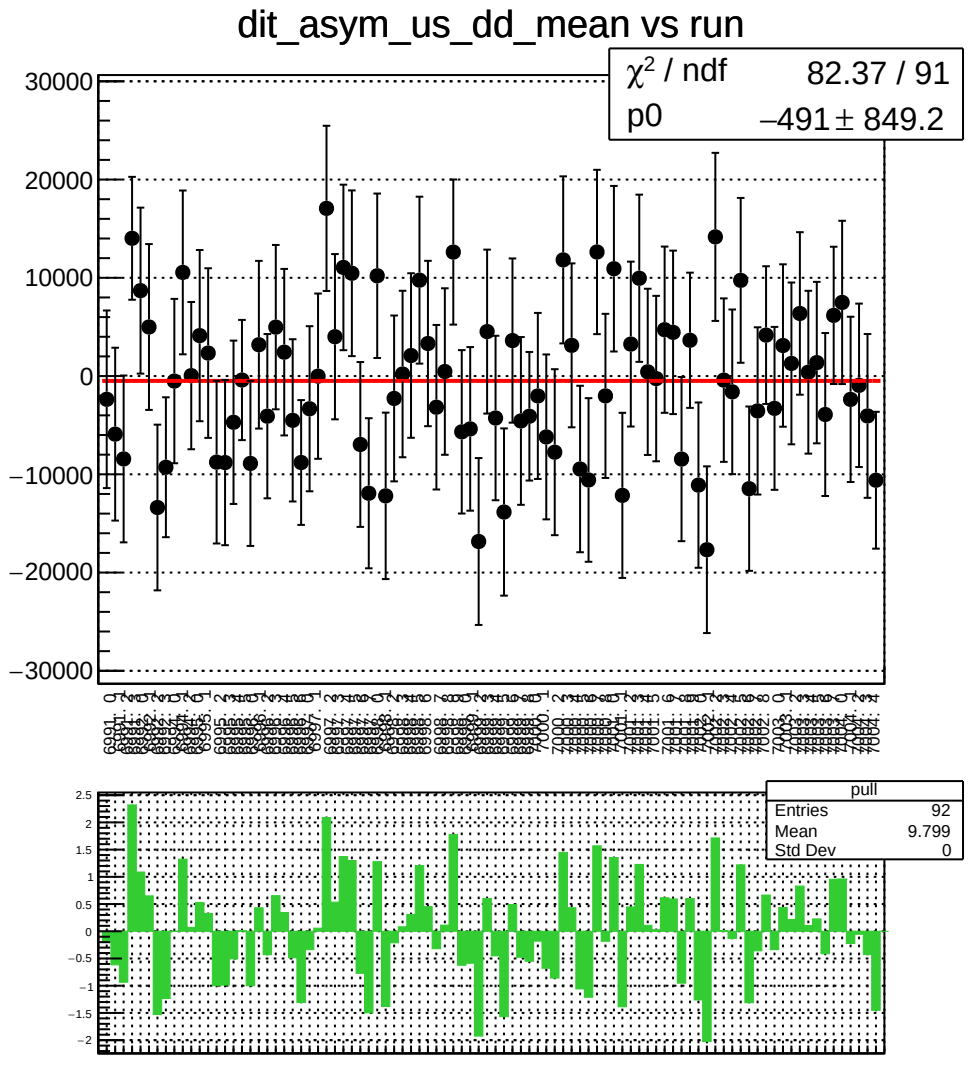

pull1D
Entries 92
Mean −0.003635
Std Dev 0.9549
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

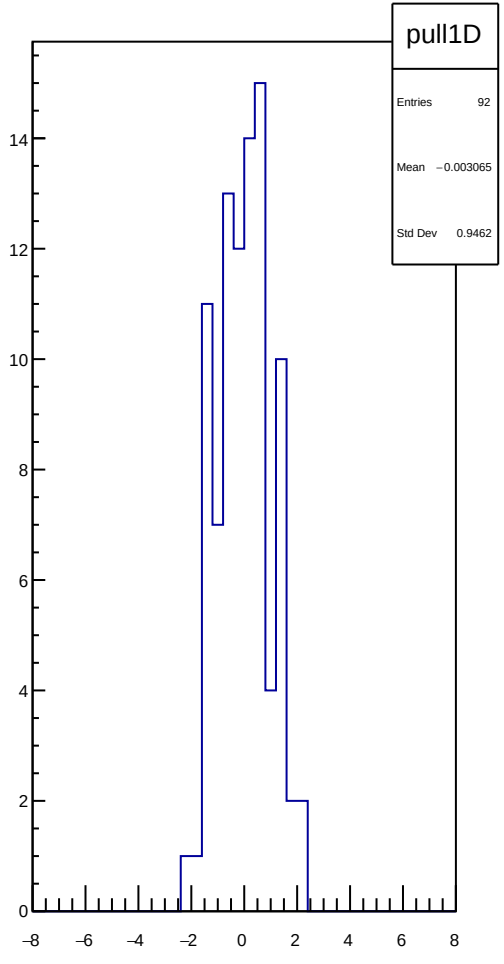

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 294.2 / 91
p0 797.2 ± 0.6001
860
840
820
800
780

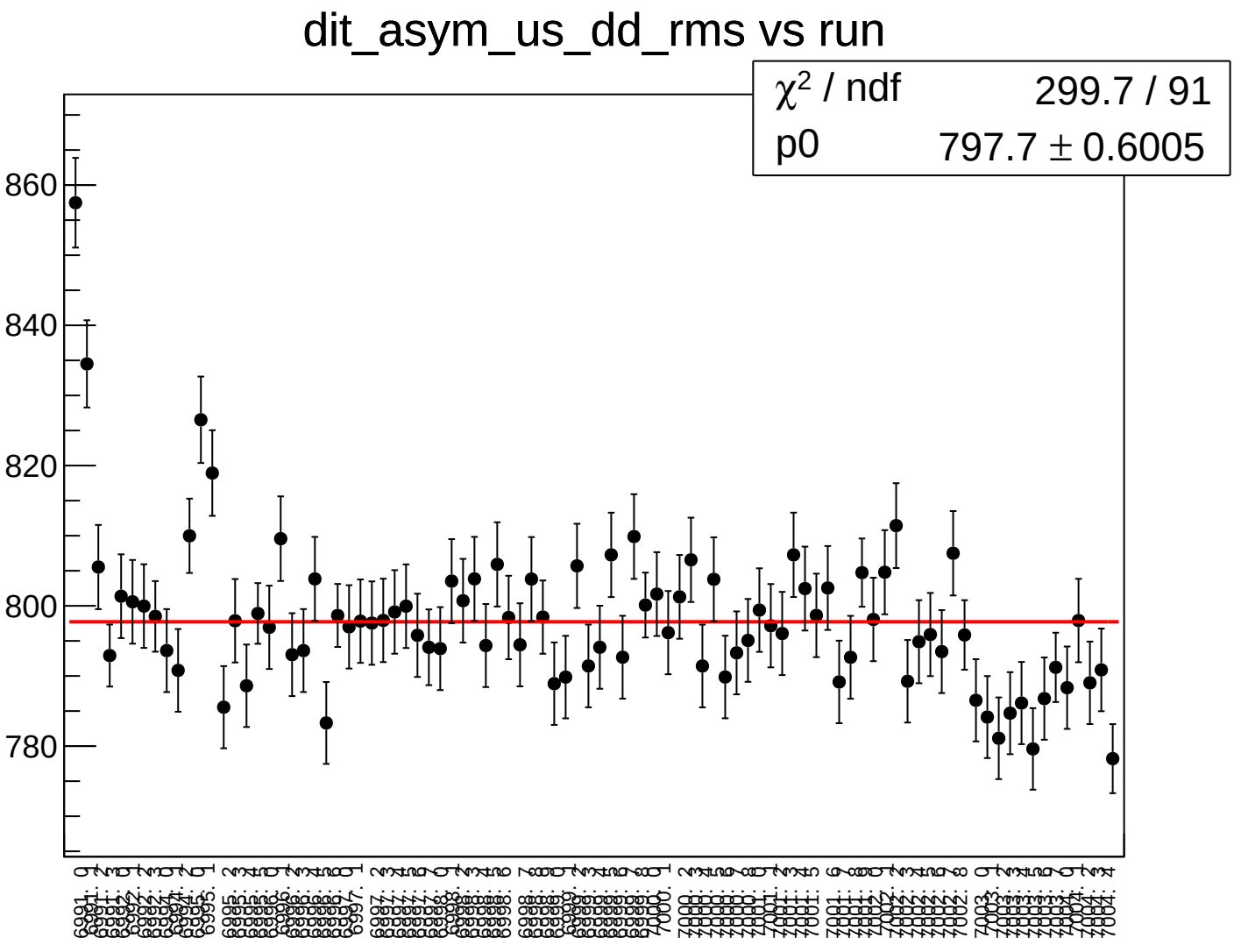

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.16 / 91
p0 −716.5 ± 568.6
pull
Entries 92
Mean −434.6
Std Dev 0

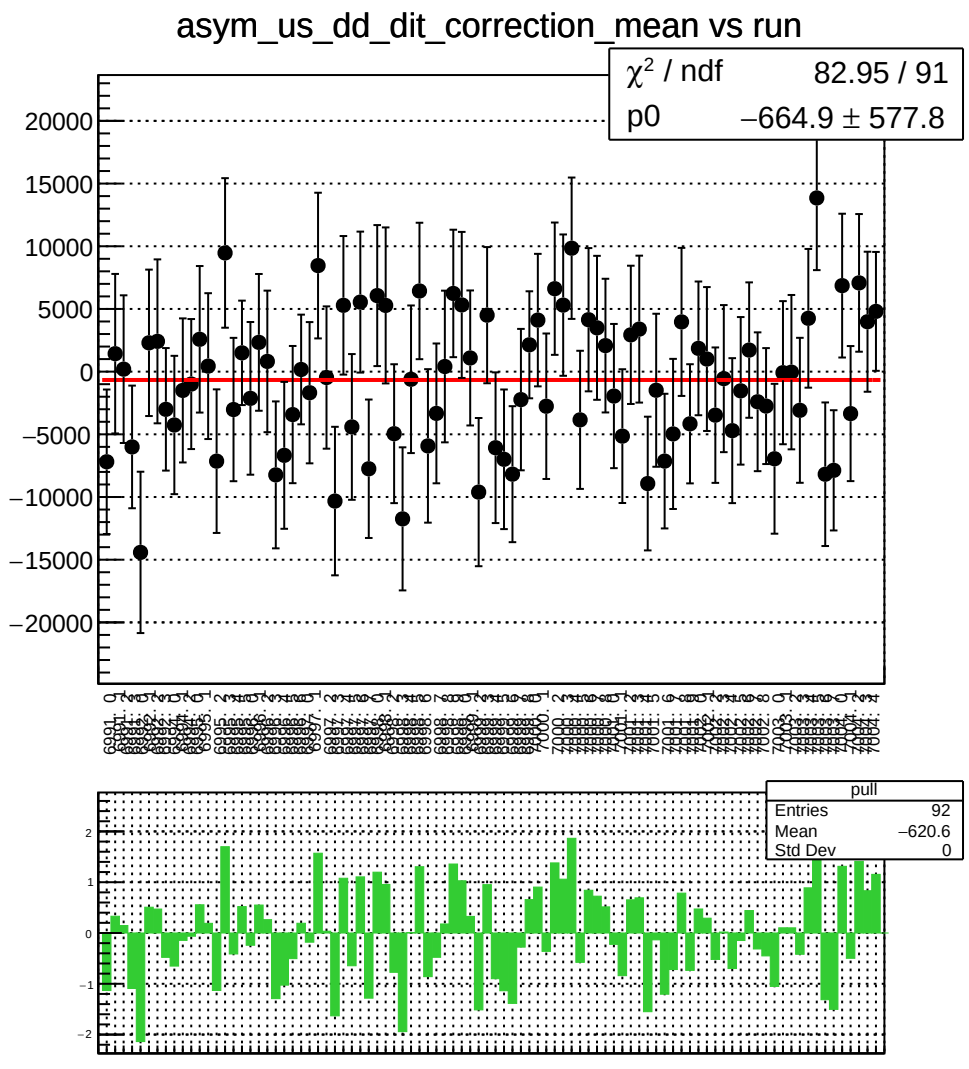

pull1D
Entries 92
Mean −0.006526
Std Dev 0.9507

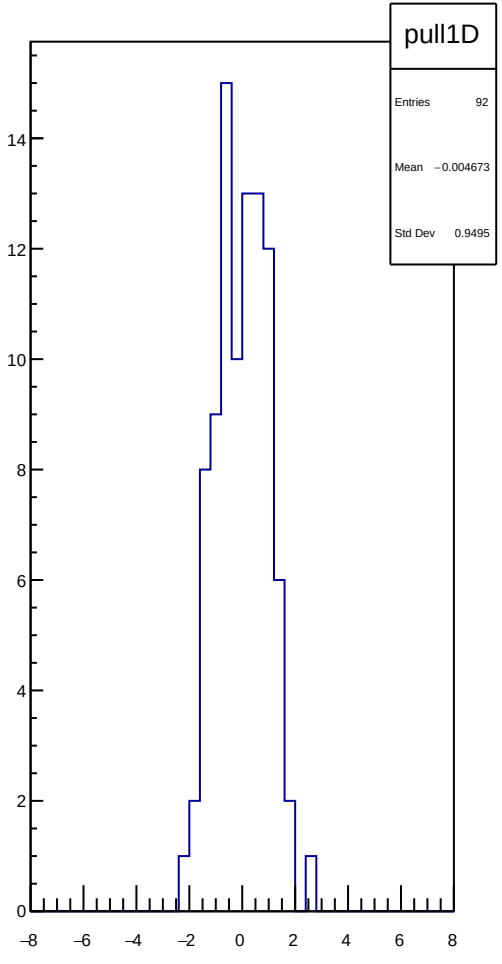

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 4299 / 91
p0 533.6 ± 0.4021
620
600
580
560
540
520
500
480

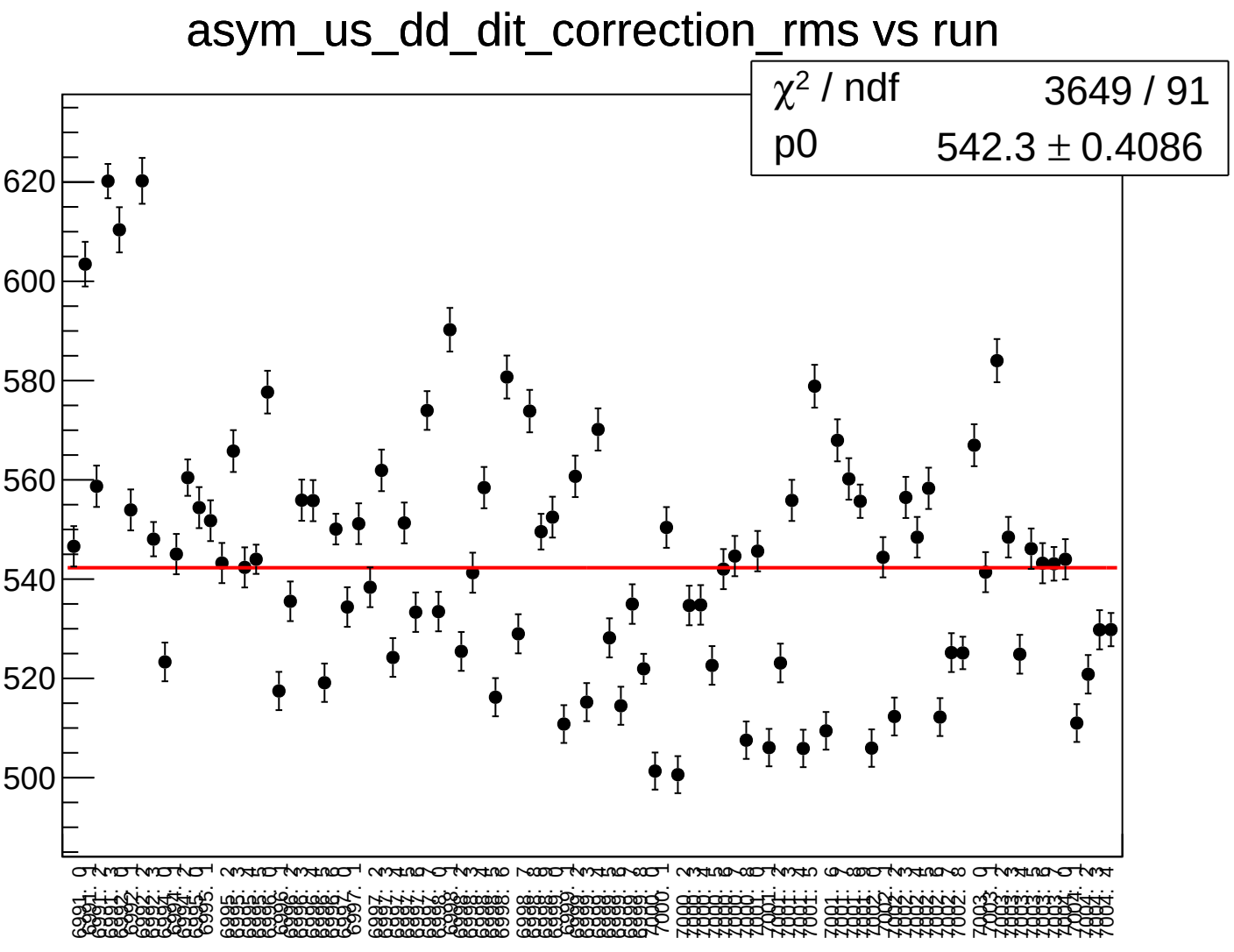

dit_asym_us_dd_mean vs run
χ² / ndf 82.37 / 91
p0 −491 ± 849.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 9.799
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

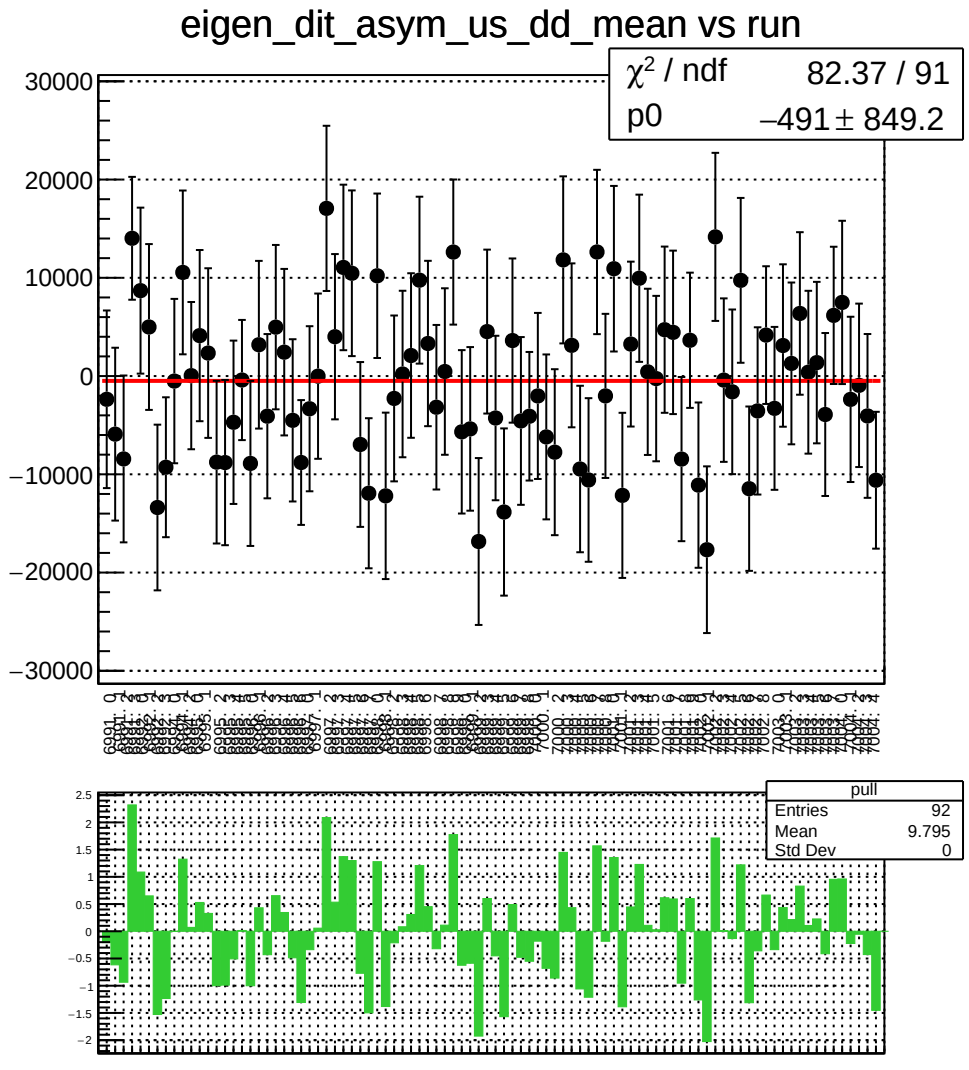

pull1D
Entries 92
Mean −0.003065
Std Dev 0.9462
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

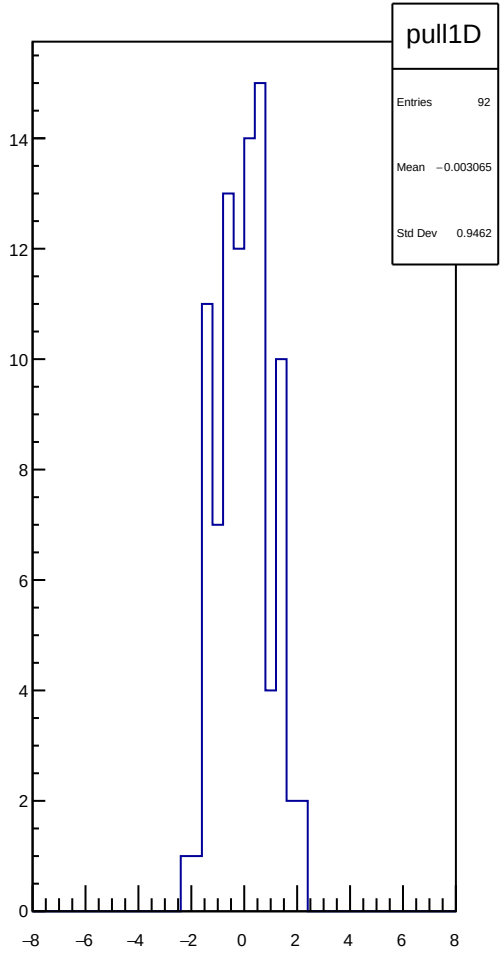

dit_asym_us_dd_rms vs run
χ² / ndf 299.7 / 91
p0 797.7 ± 0.6005
860
840
820
800
780

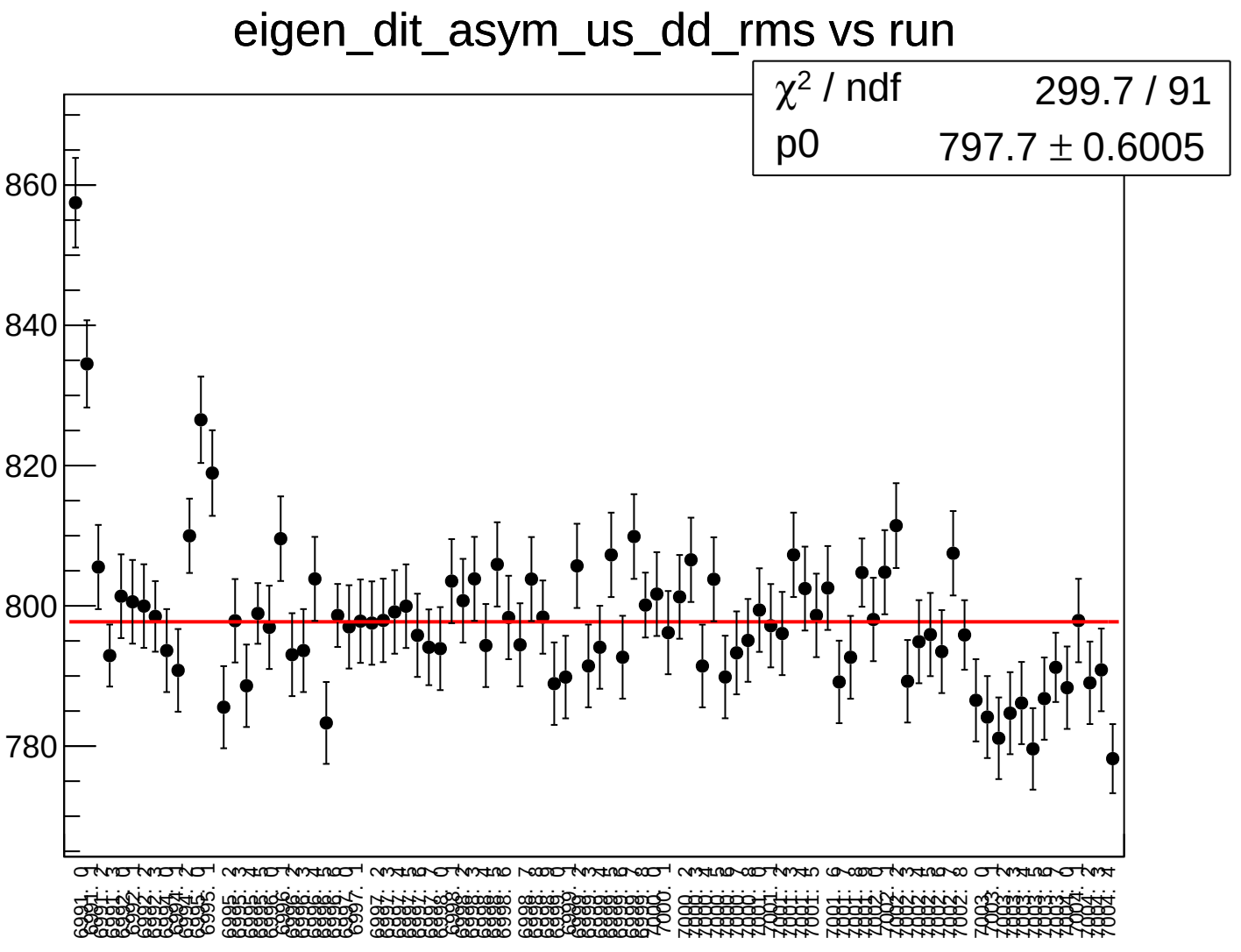

asym_us_dd_dit_correction_mean vs run
χ² / ndf 82.95 / 91
p0 −664.9 ± 577.8
pull
Entries 92
Mean −620.6
Std Dev 0

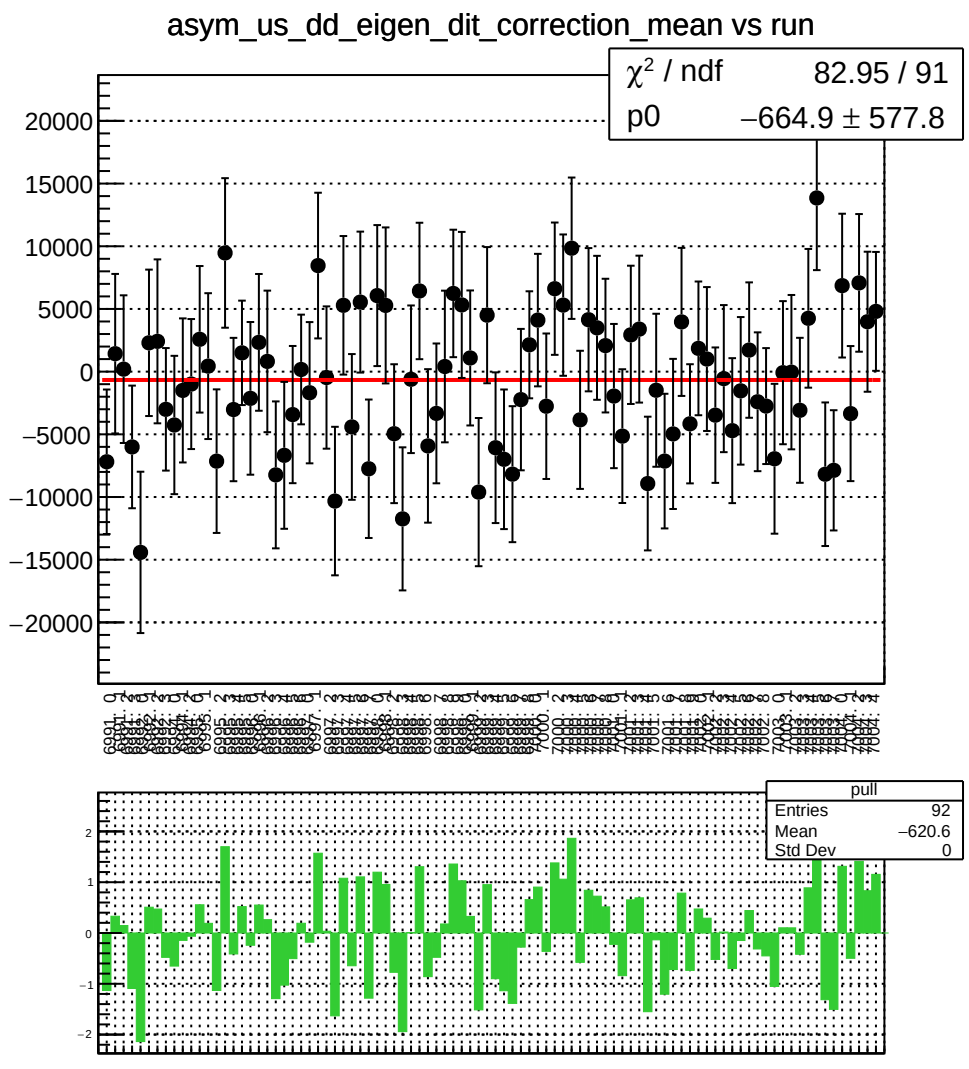

pull1D
Entries 92
Mean −0.004673
Std Dev 0.9495

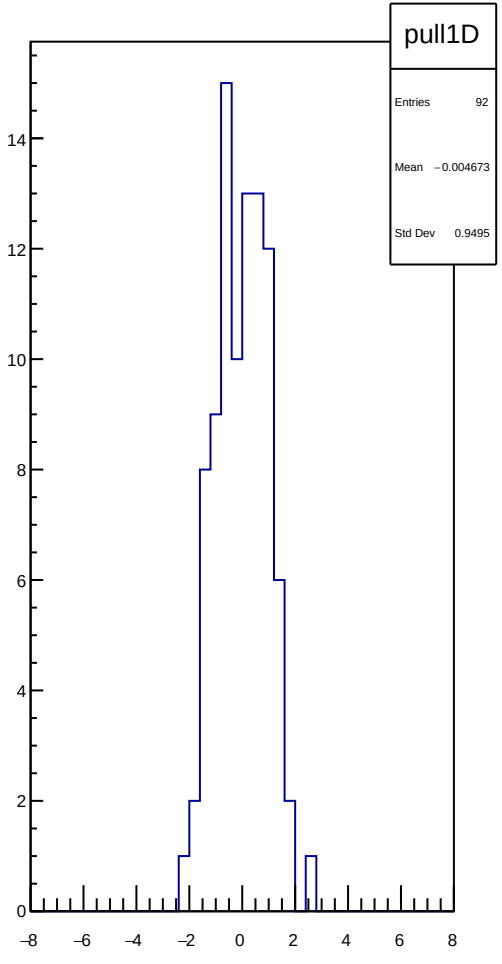

asym_us_dd_dit_correction_rms vs run
χ² / ndf 3649 / 91
p0 542.3 ± 0.4086
620
600
580
560
540
520
500

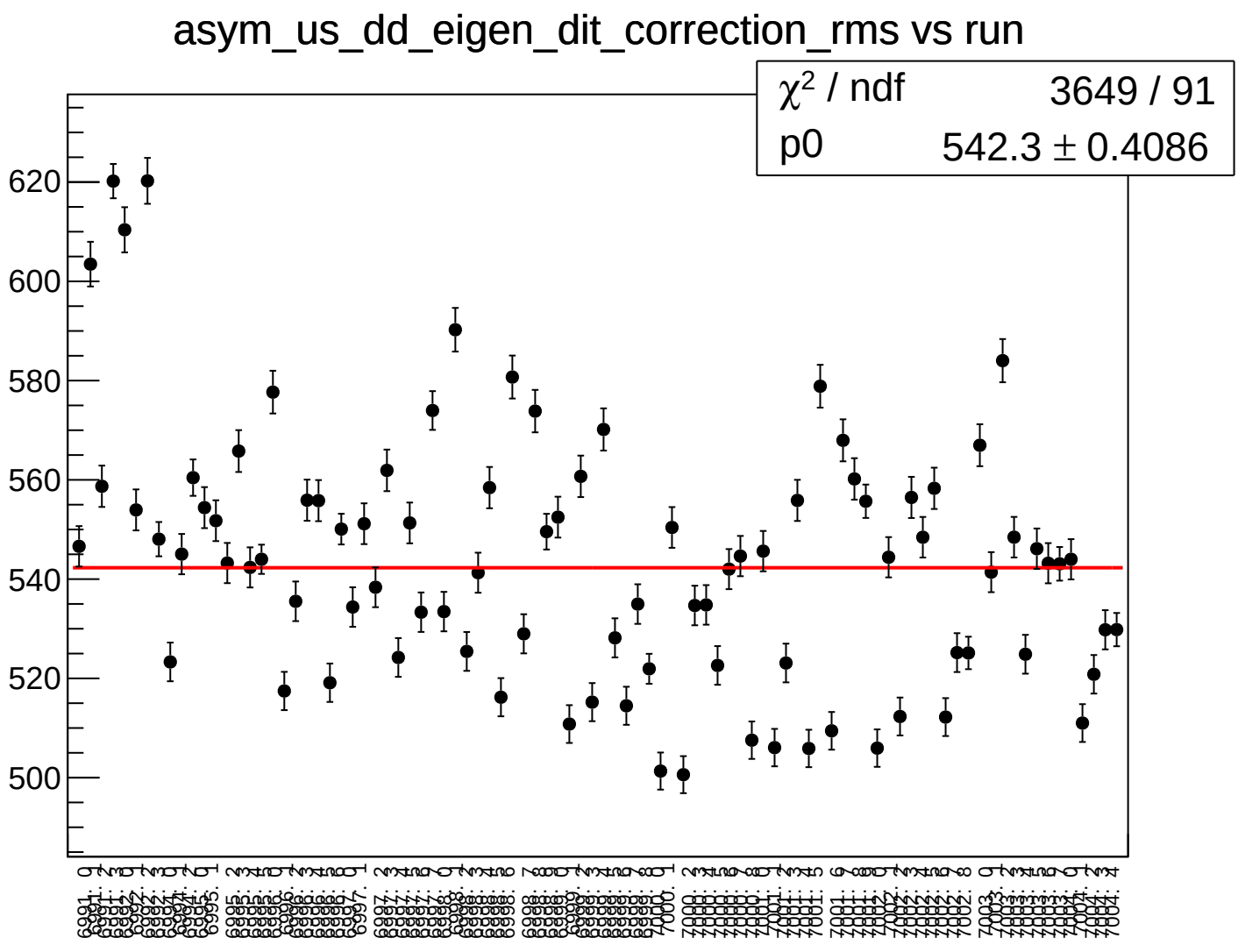

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 82.37 / 91
p0 −491 ± 849.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 9.795
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

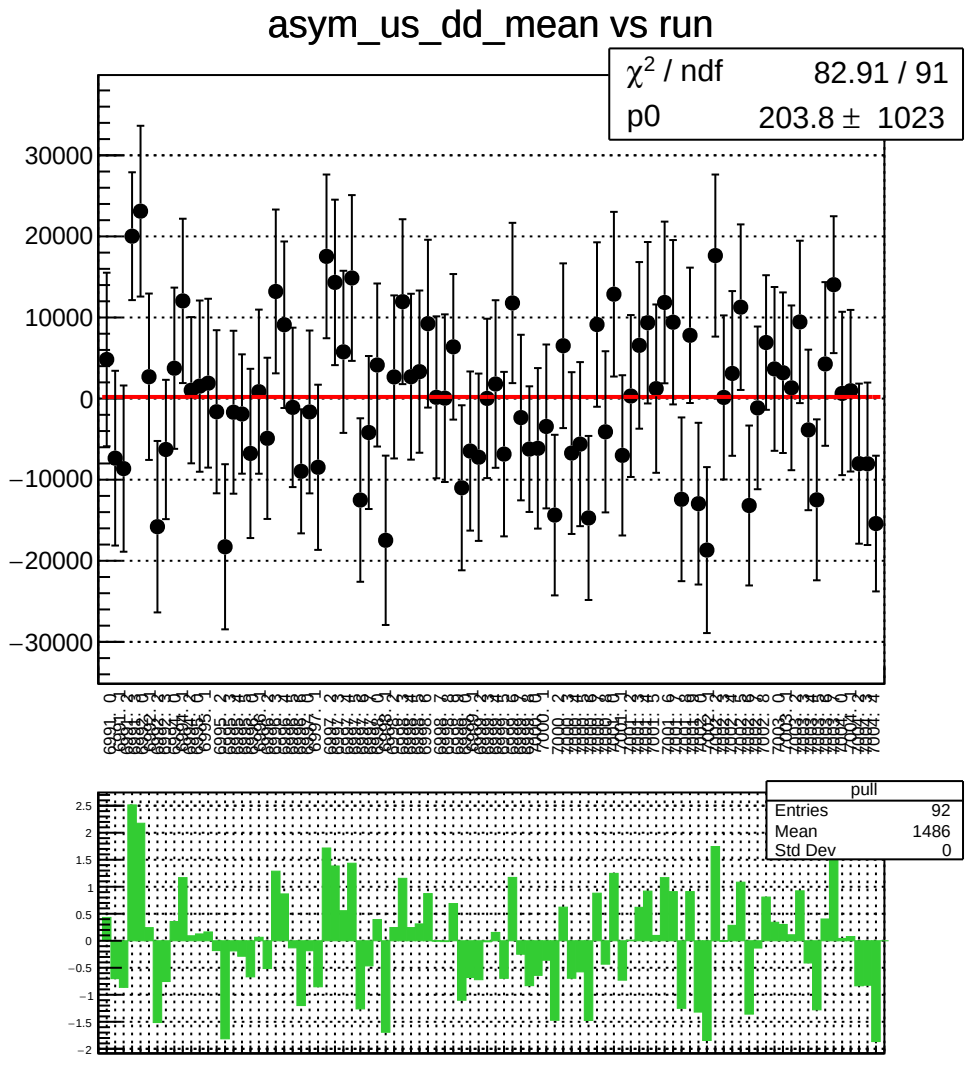

pull1D
Entries 92
Mean −0.003065
Std Dev 0.9462
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

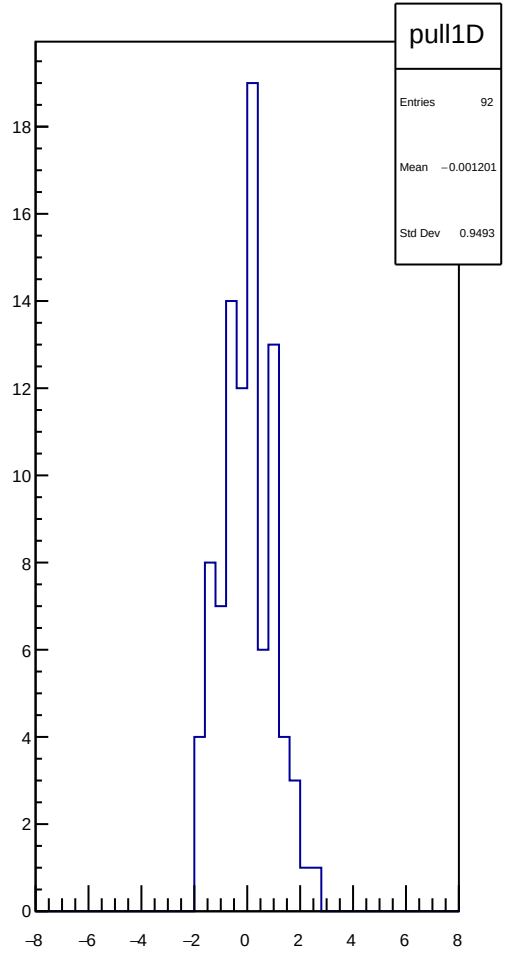

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 299.7 / 91
p0 797.7 ± 0.6005
860
840
820
800
780

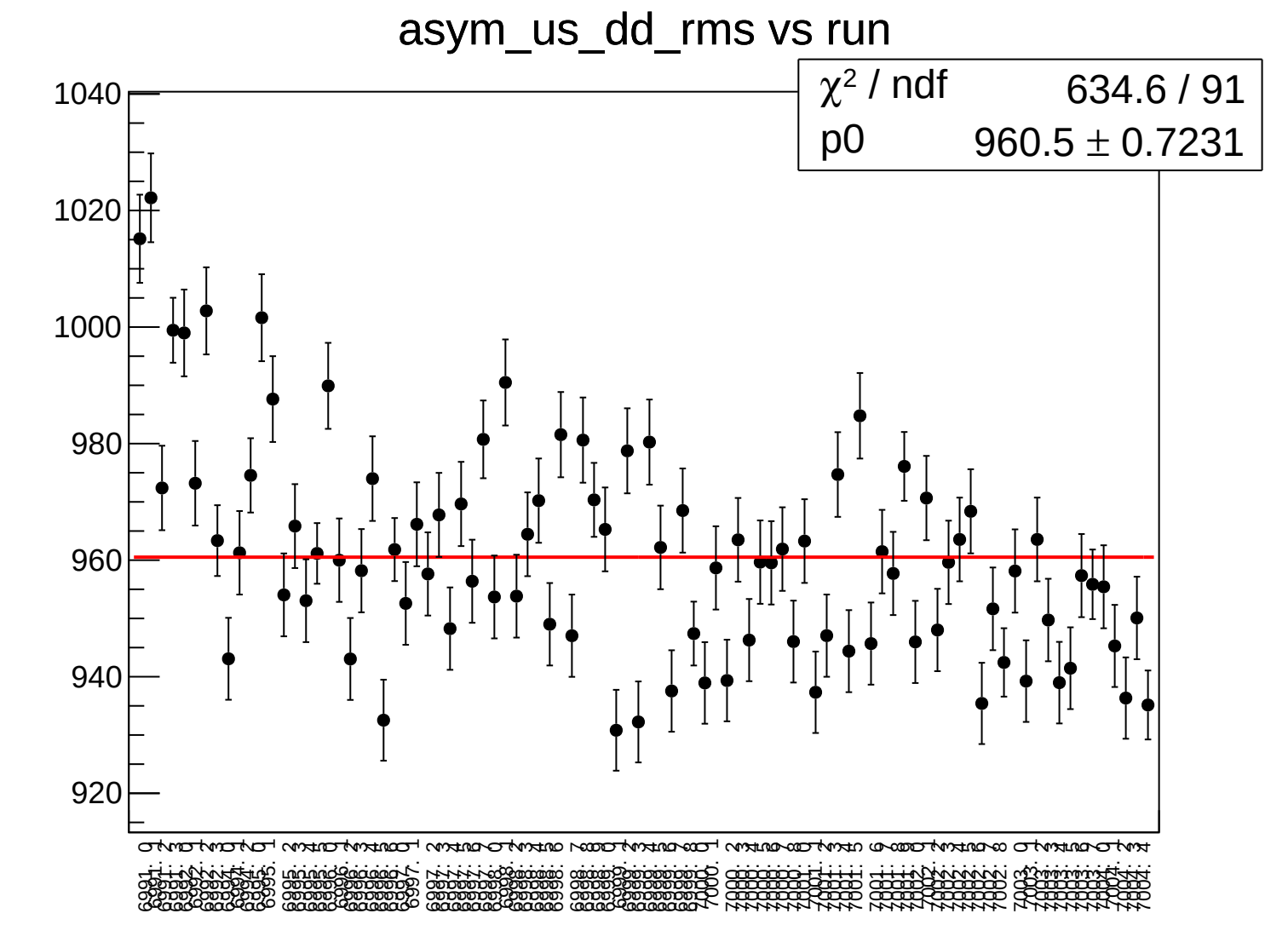

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.95 / 91
p0 −664.9 ± 577.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −620.6
Std Dev 0
2
1
0
−1
−2

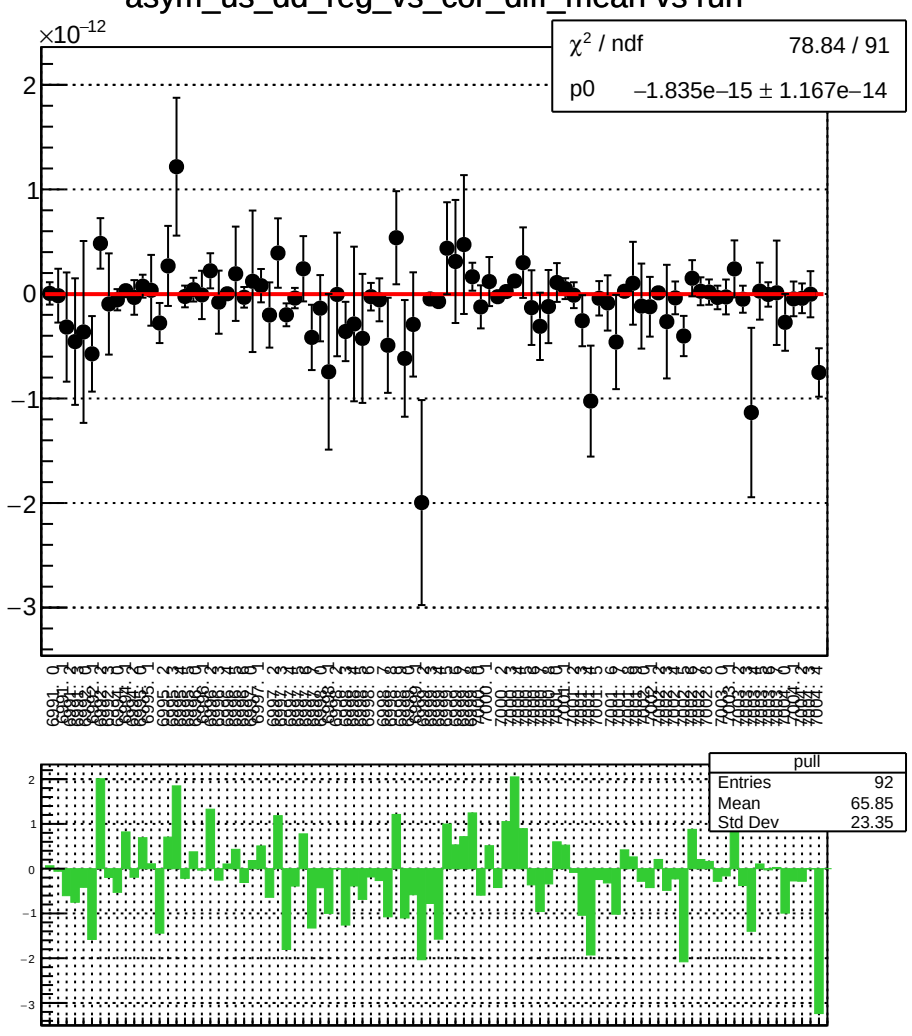

pull1D
Entries 92
Mean −0.004673
Std Dev 0.9495
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

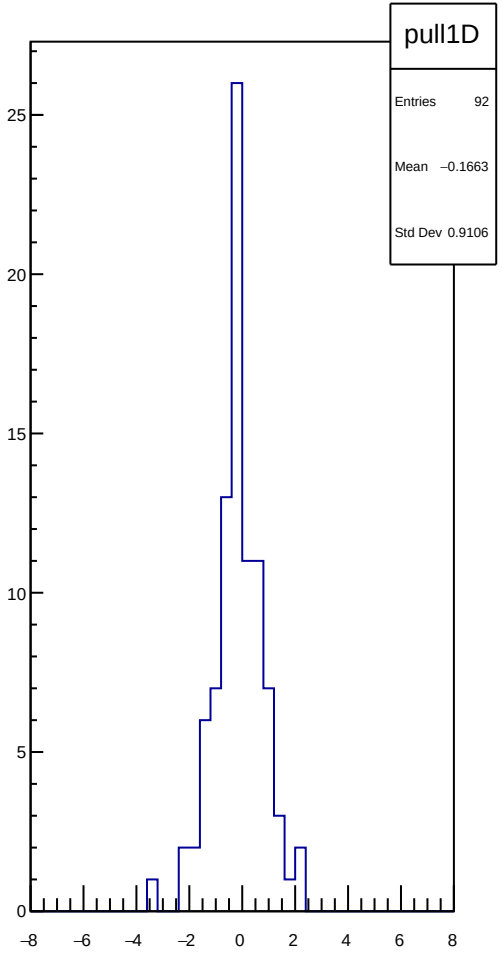

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 3649 / 91
p0 542.3 ± 0.4086
620
600
580
560
540
520
500

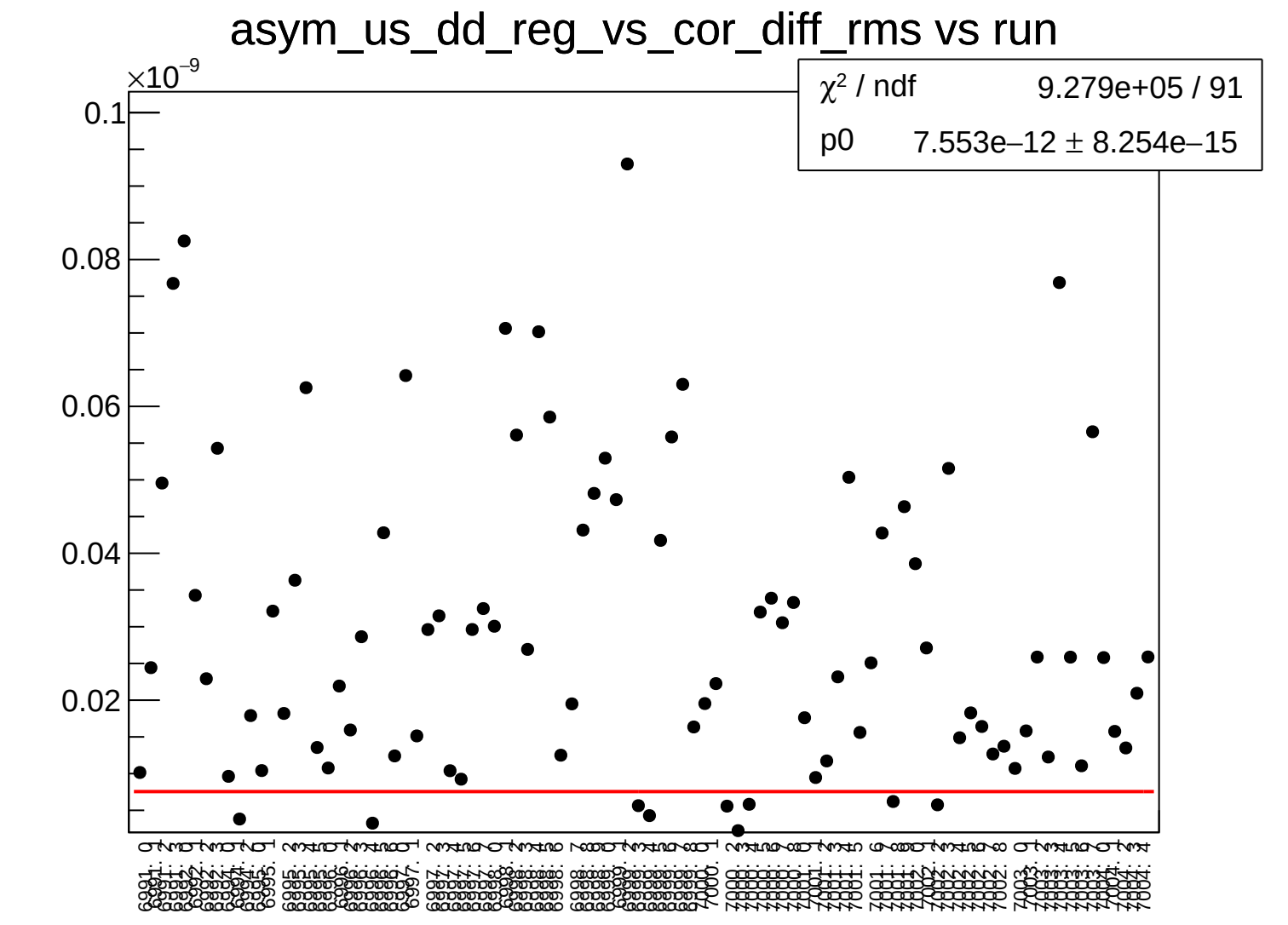

asym_us_dd_mean vs run
χ² / ndf 82.91 / 91
p0 203.8 ± 1023
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 1486
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

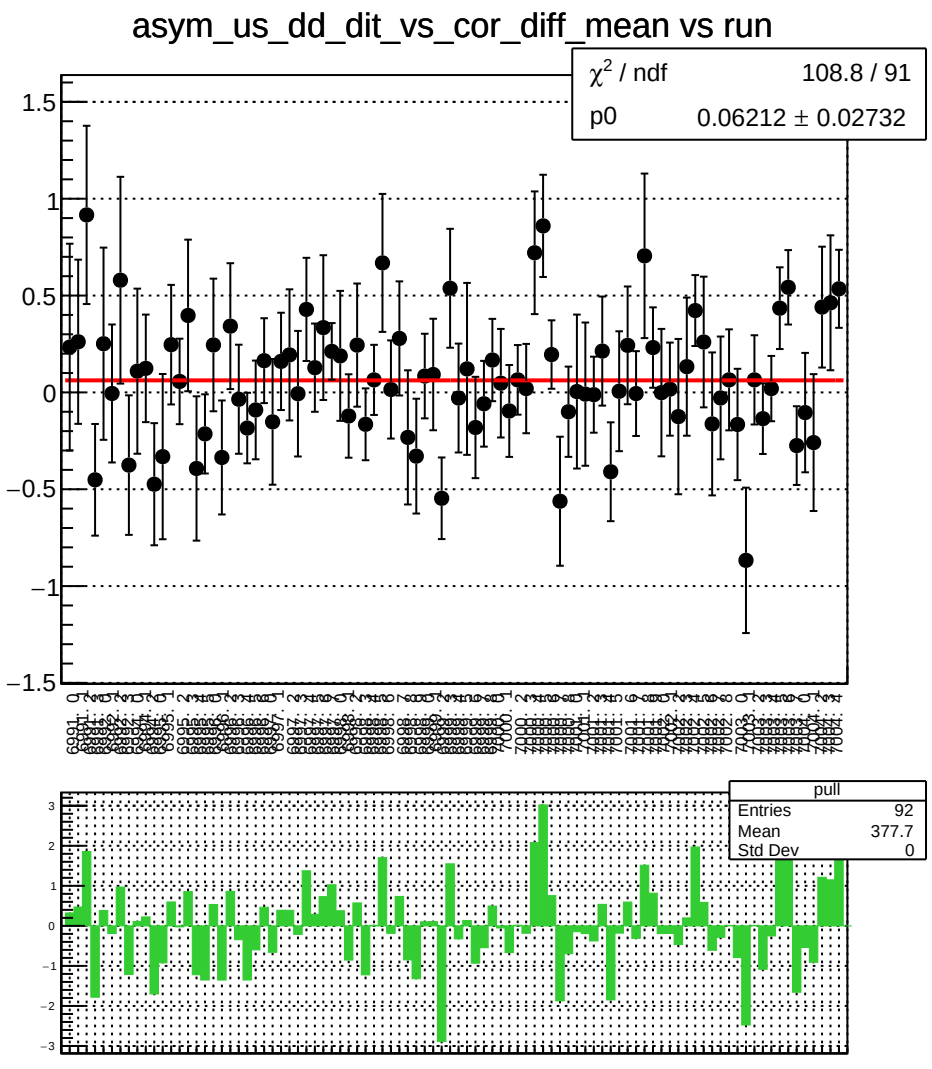

pull1D
Entries 92
Mean −0.001201
Std Dev 0.9493
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

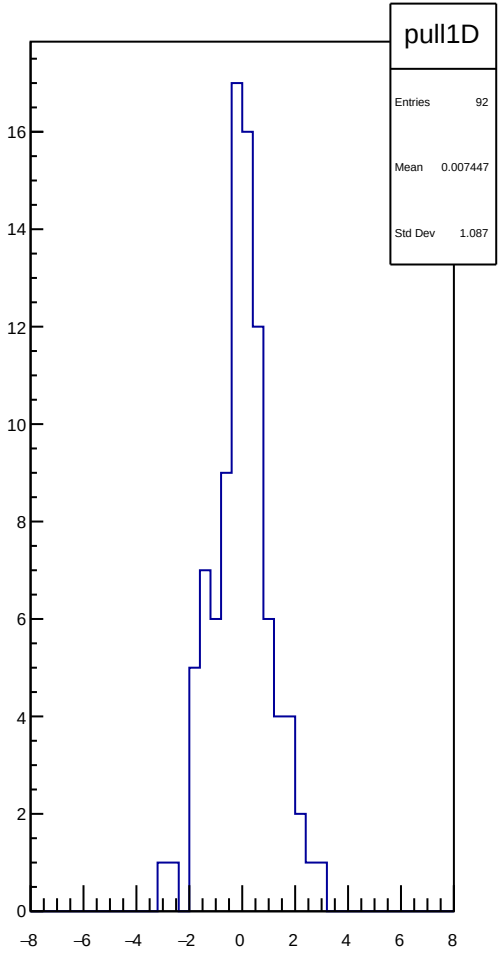

asym_us_dd_rms vs run
χ² / ndf 634.6 / 91
p0 960.5 ± 0.7231
1040
1020
1000
980
960
940
920

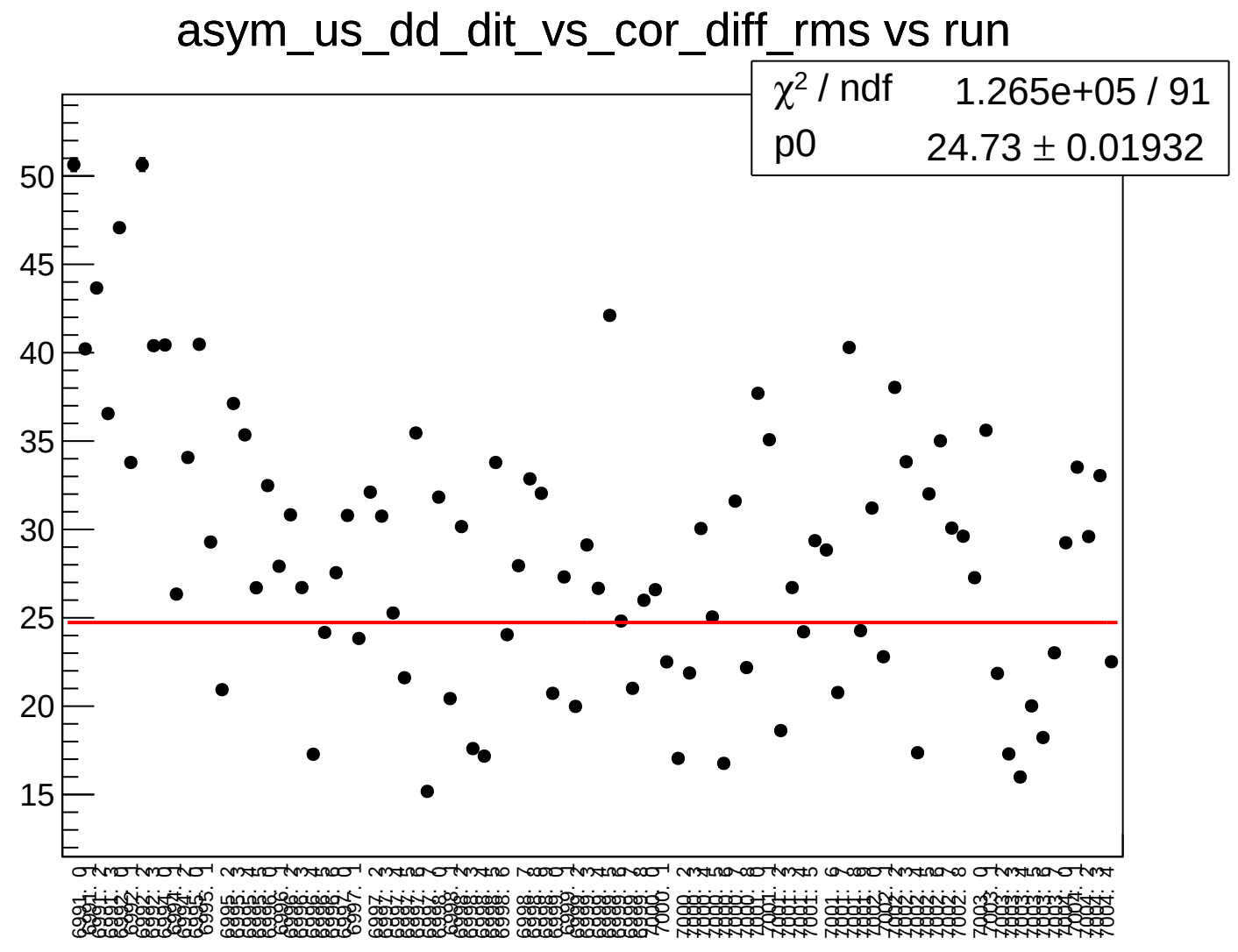

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.84 / 91
p0 −1.835e−15 ± 1.167e−14
pull
Entries 92
Mean 65.85
Std Dev 23.35

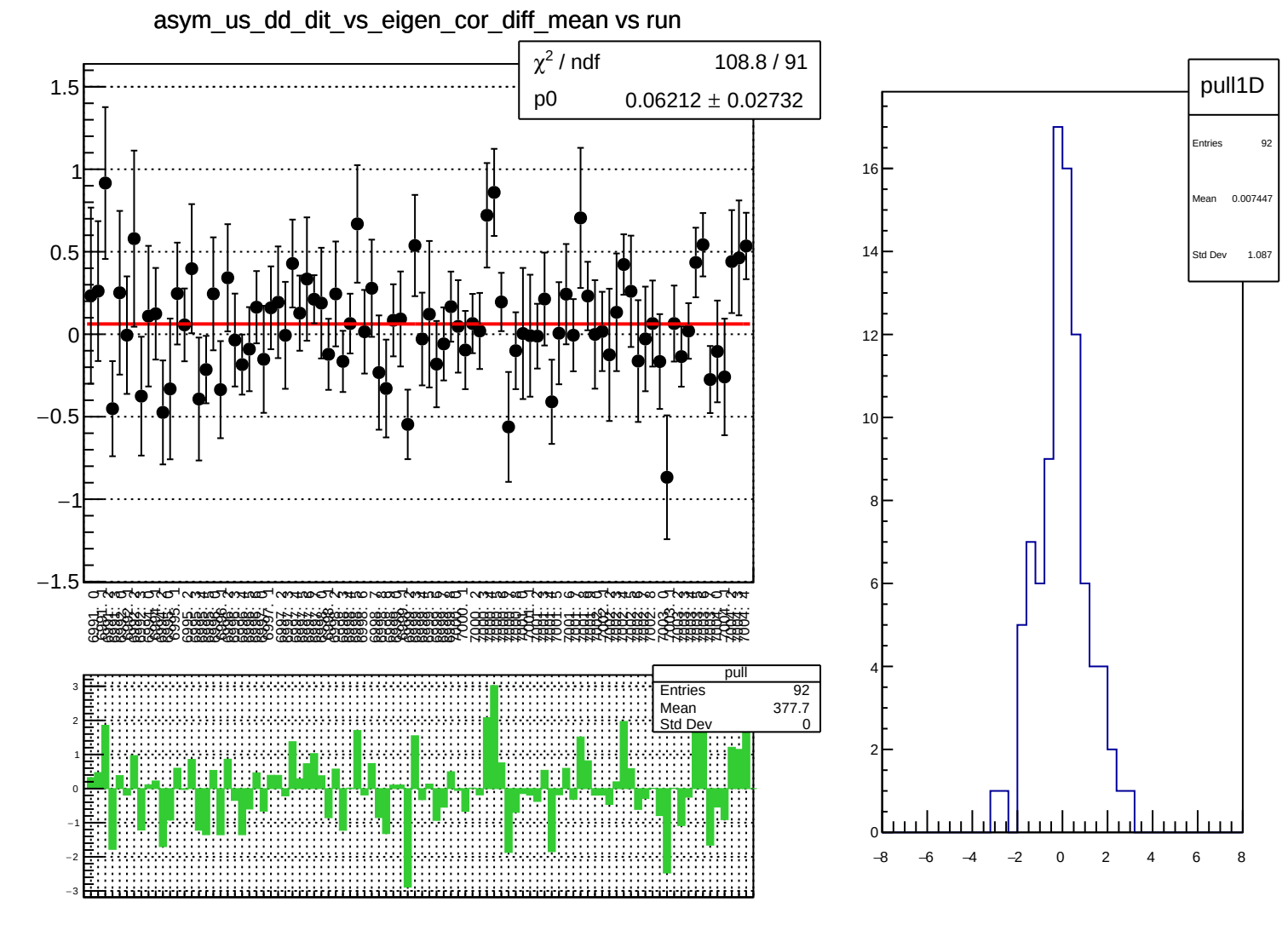

pull1D
Entries 92
Mean −0.1663
Std Dev 0.9106

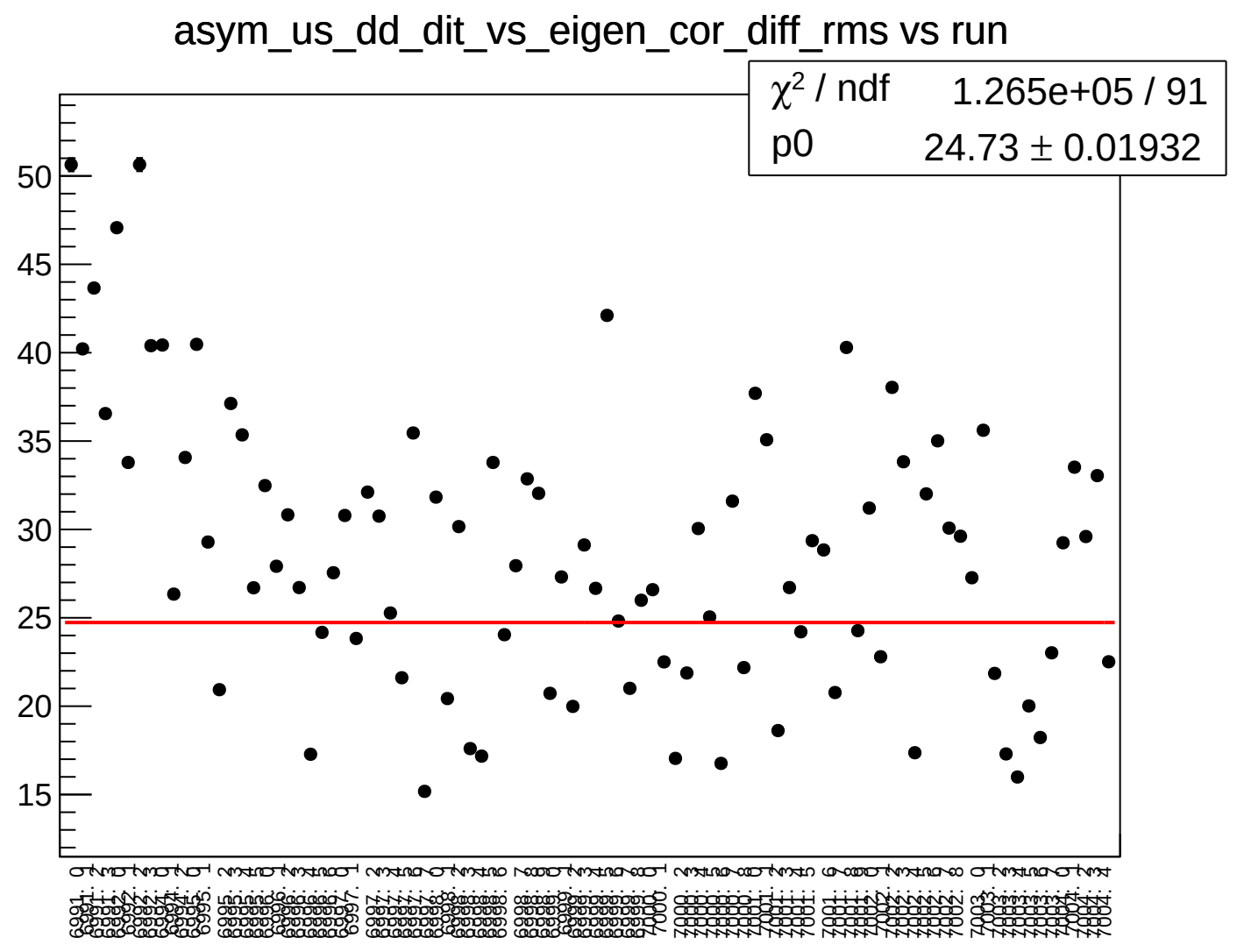

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 9.279e+05 / 91
p0 7.553e−12 ± 8.254e−15

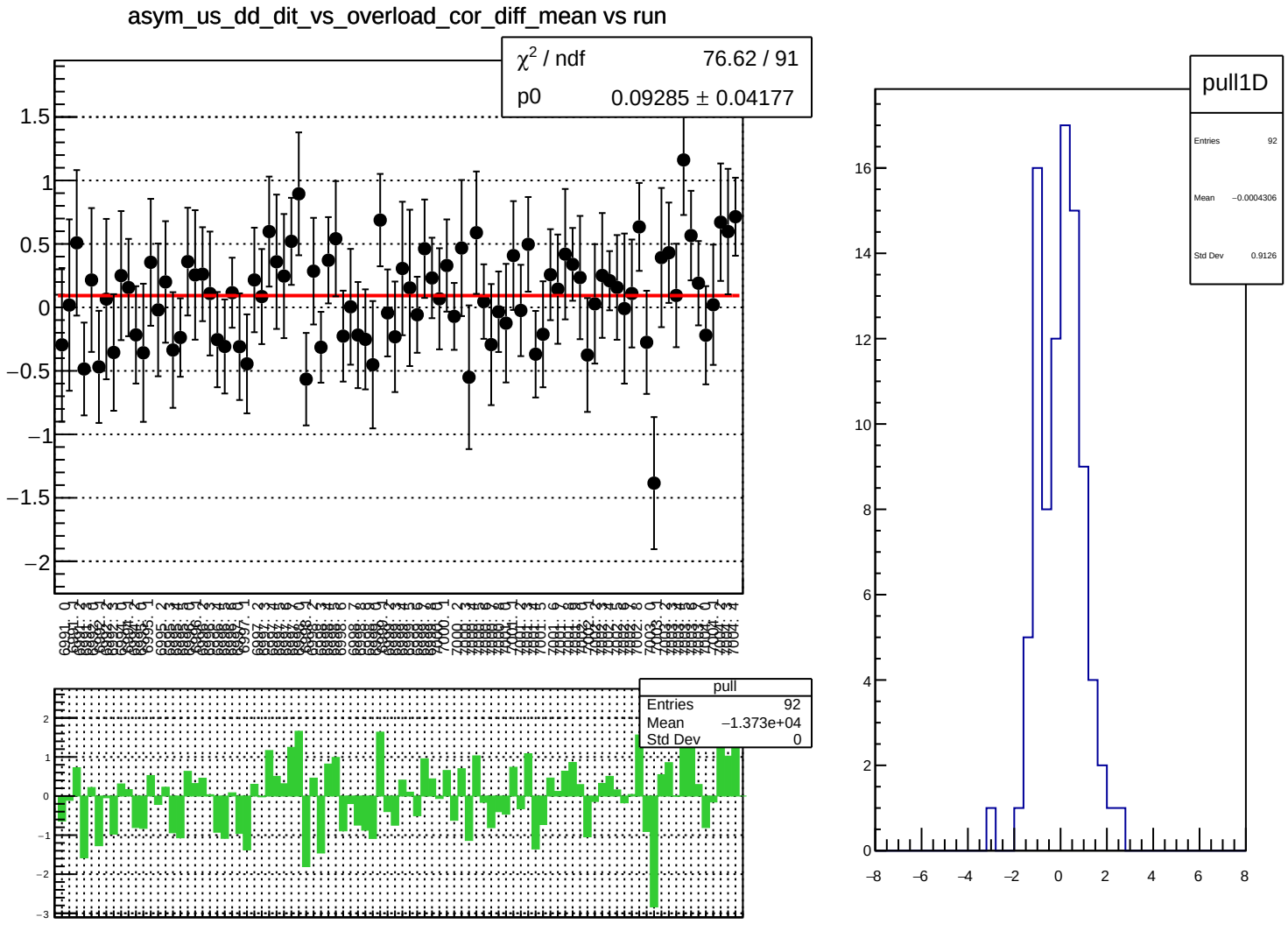

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 91
p0 0.06212 ± 0.02732
pull
Entries 92
Mean 377.7
Std Dev 0

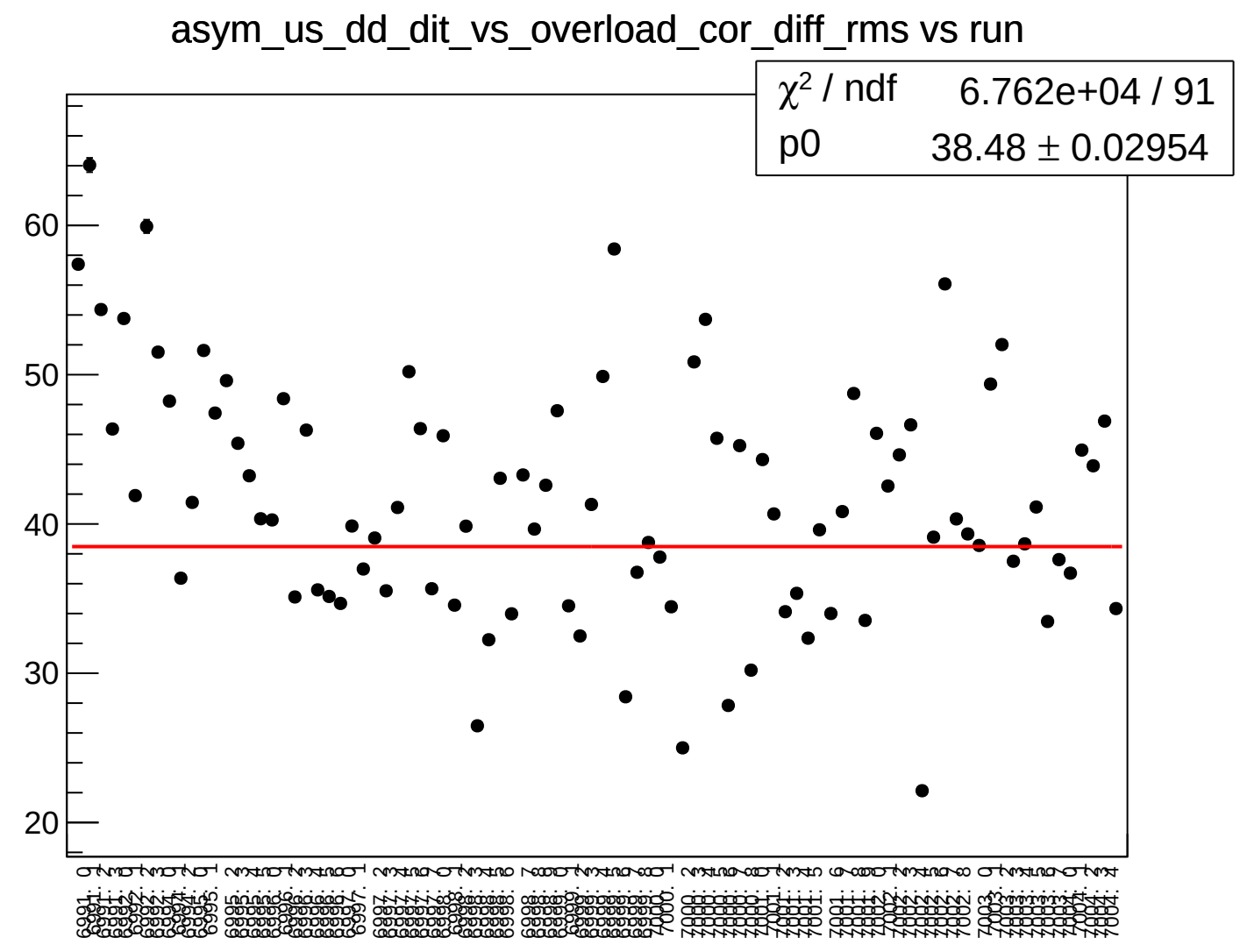

pull1D
Entries 92
Mean 0.007447
Std Dev 1.087

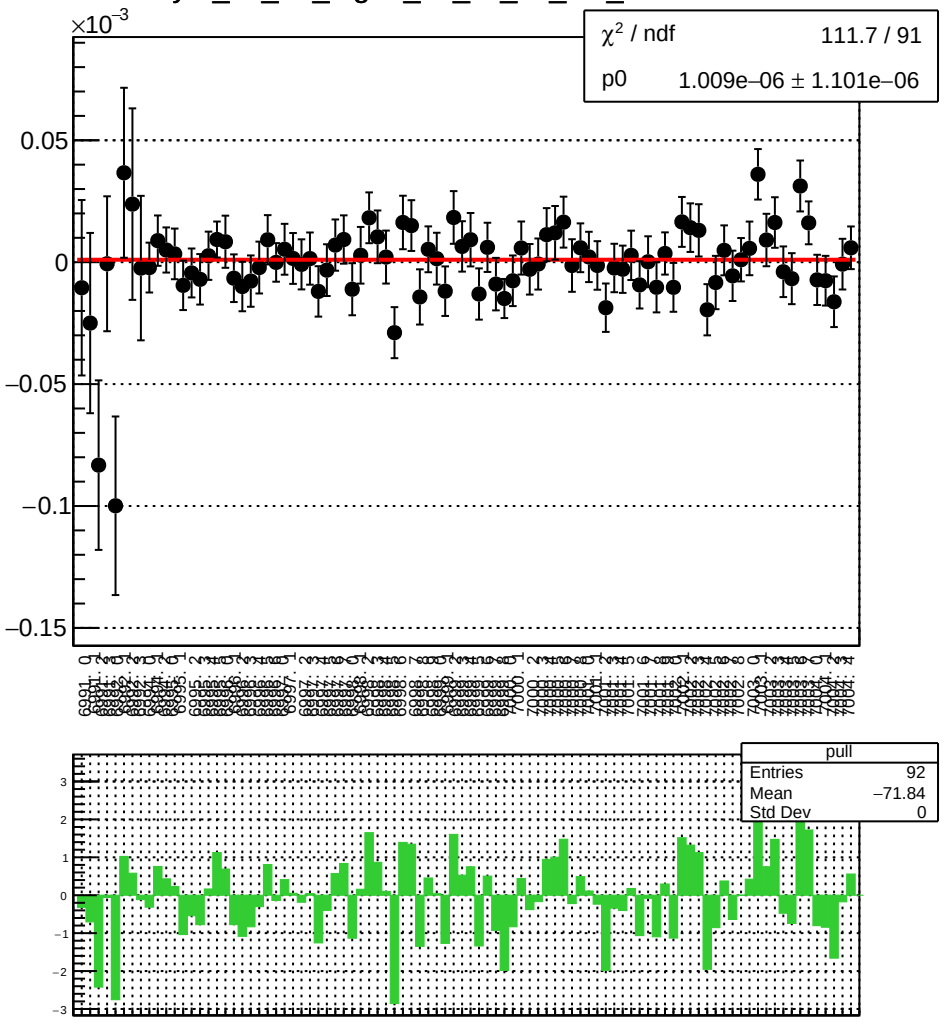

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.265e+05 / 91
p0 24.73 ± 0.01932
50
45
40
35
30
25
20
15

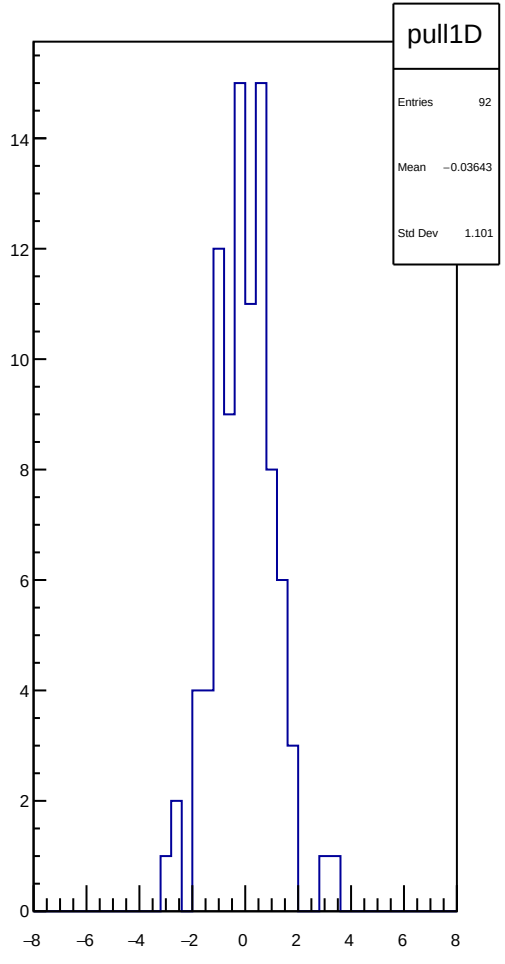

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.8 / 91
p0 0.06212 ± 0.02732
pull
Entries 92
Mean 377.7
Std Dev 0
pull1D
Entries 92
Mean 0.007447
Std Dev 1.087

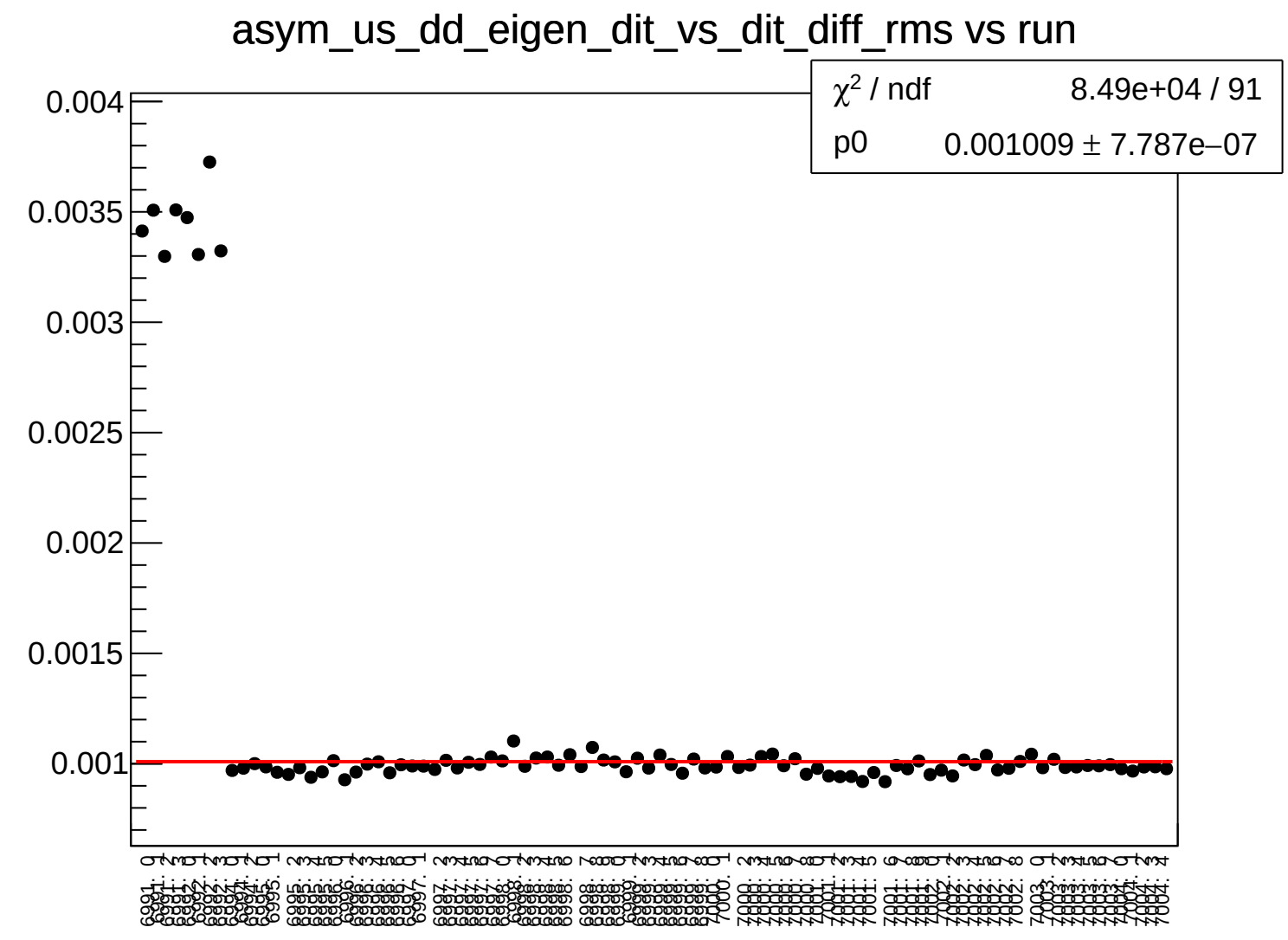

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.265e+05 / 91
p0 24.73 ± 0.01932
50
45
40
35
30
25
20
15

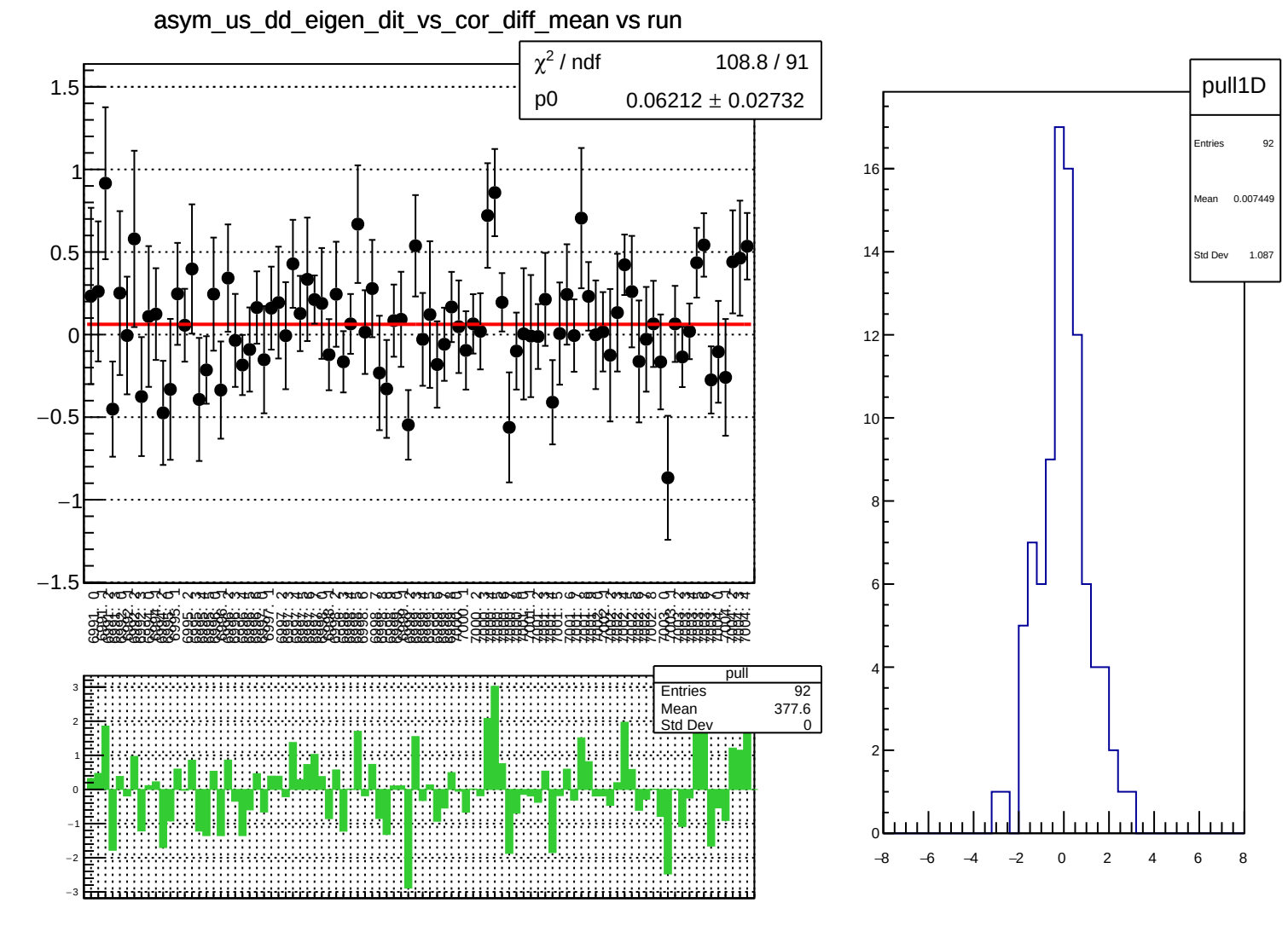

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 76.62 / 91
p0 0.09285 ± 0.04177
pull
Entries 92
Mean −1.373e+04
Std Dev 0
pull1D
Entries 92
Mean −0.0004306
Std Dev 0.9126

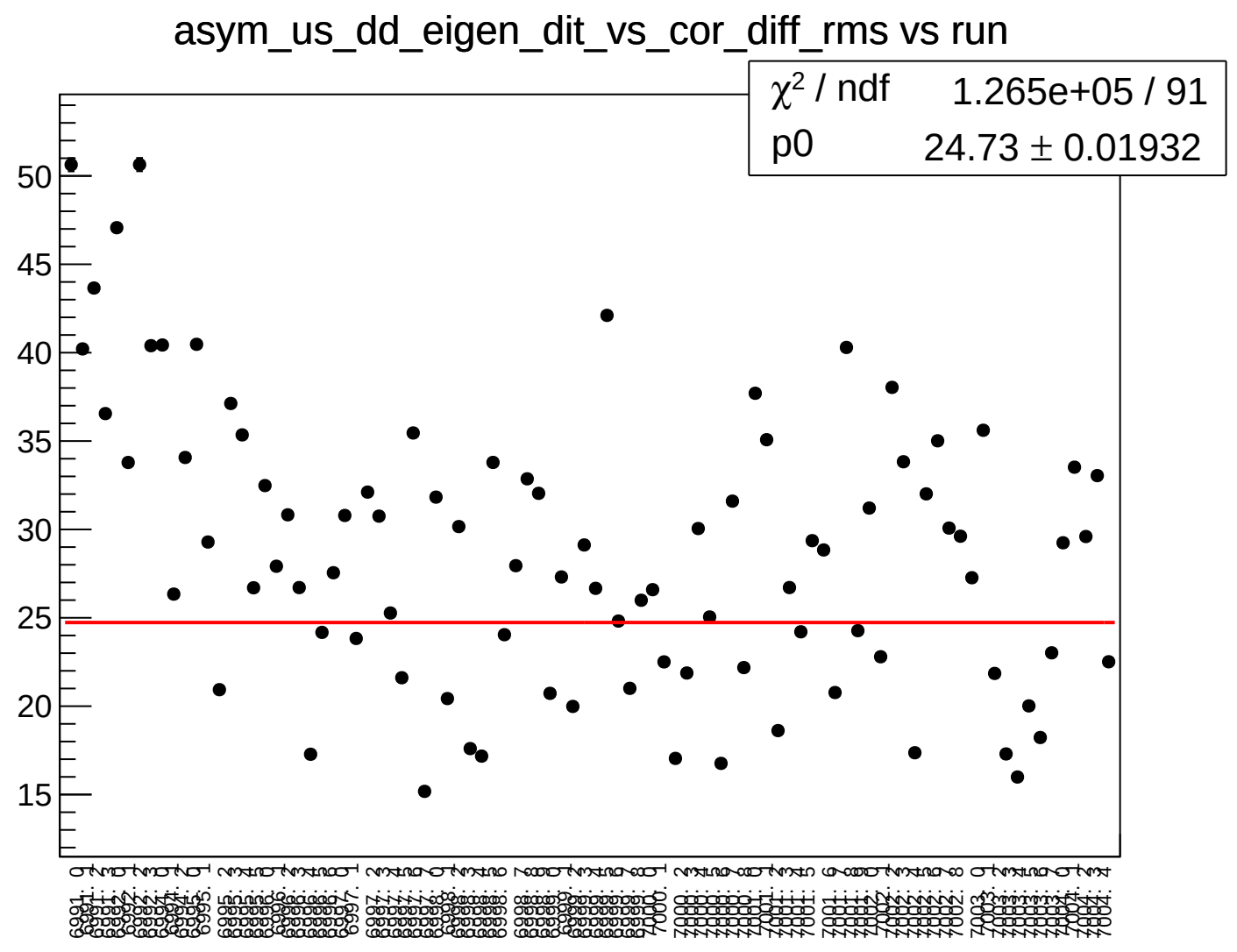

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.762e+04 / 91
p0 38.48 ± 0.02954
60
50
40
30
20

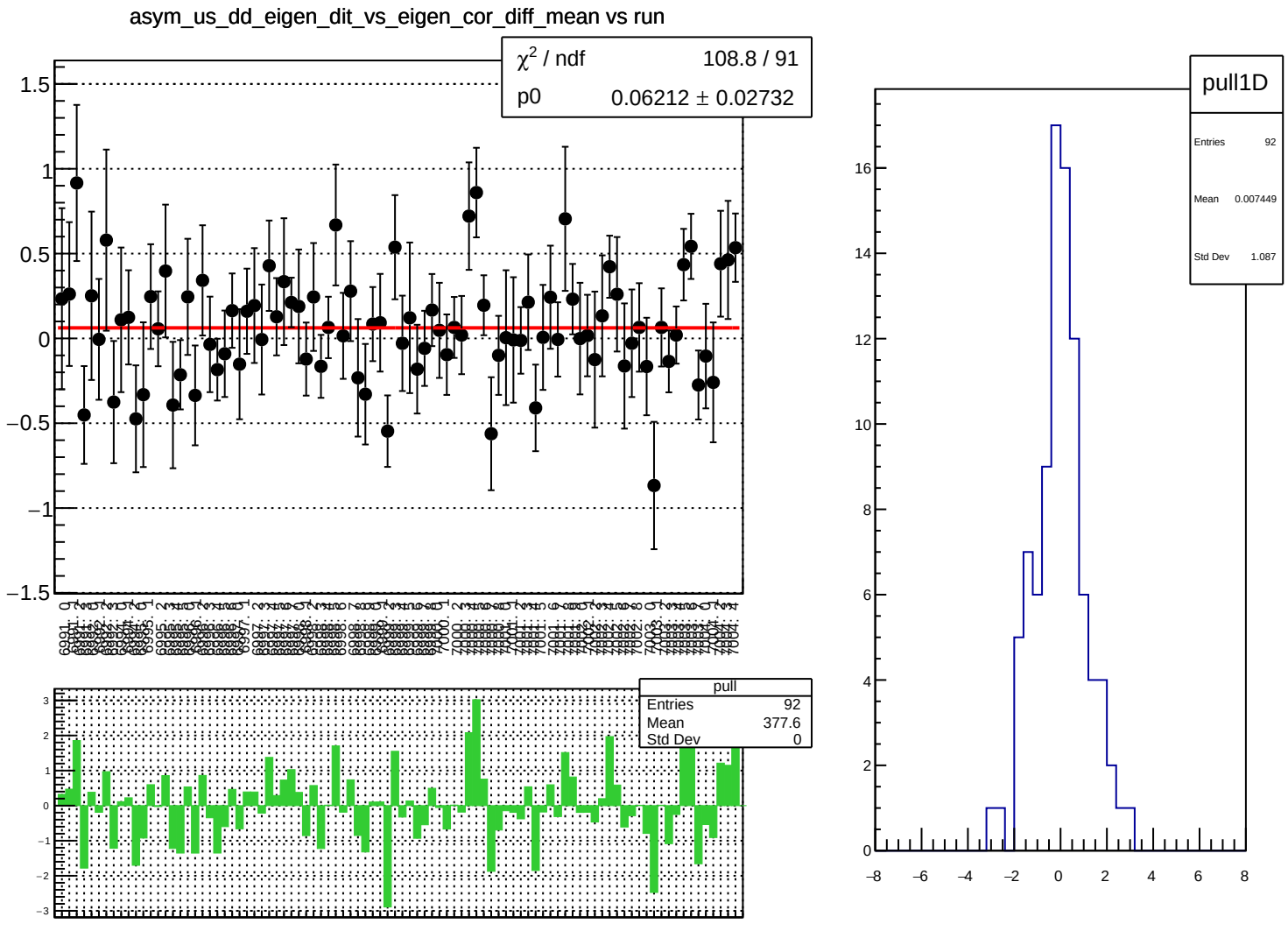

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.7 / 91
p0 1.009e−06 ± 1.101e−06
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −71.84
Std Dev 0
3
2
1
0
−1
−2
−3

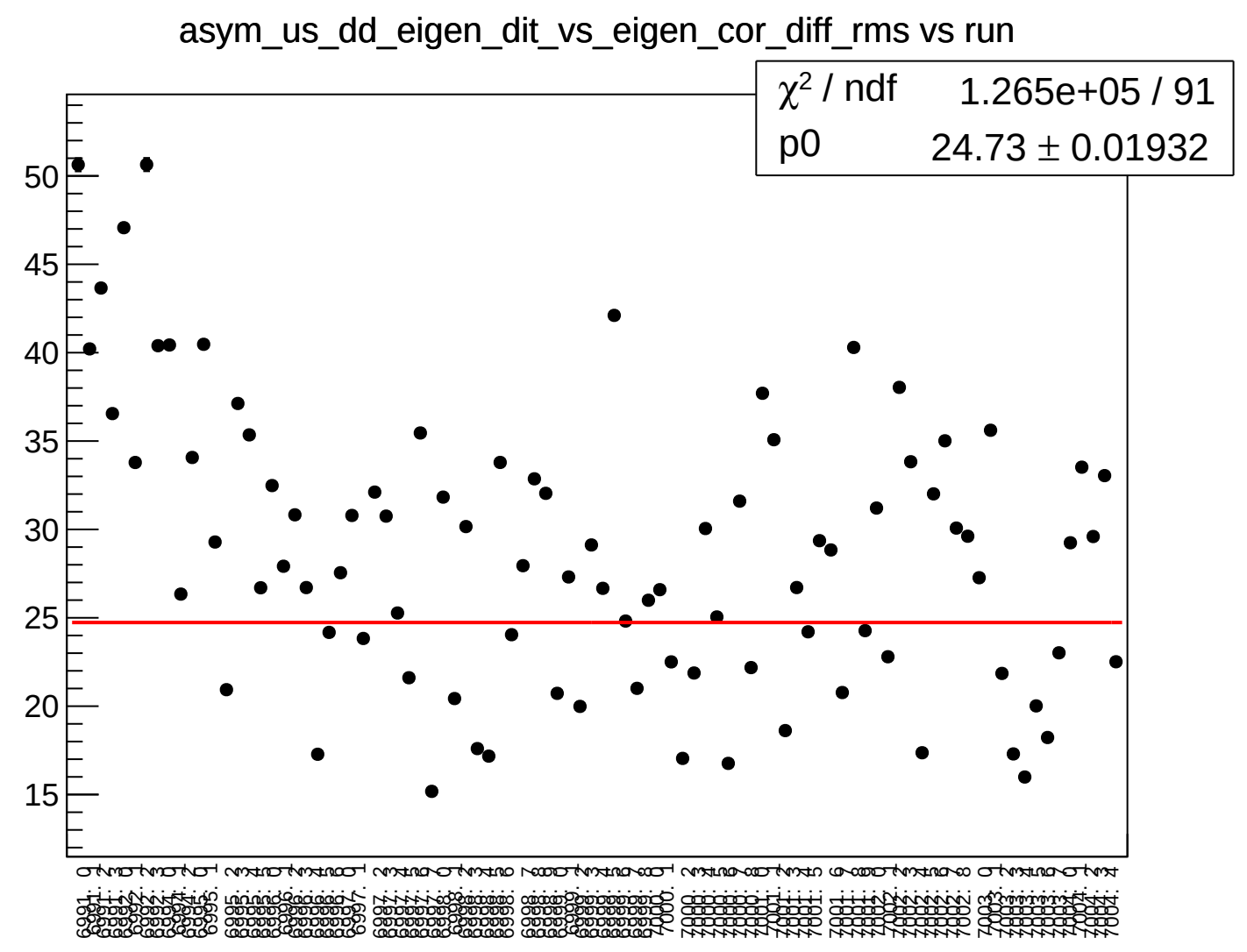

pull1D
Entries 92
Mean −0.03643
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

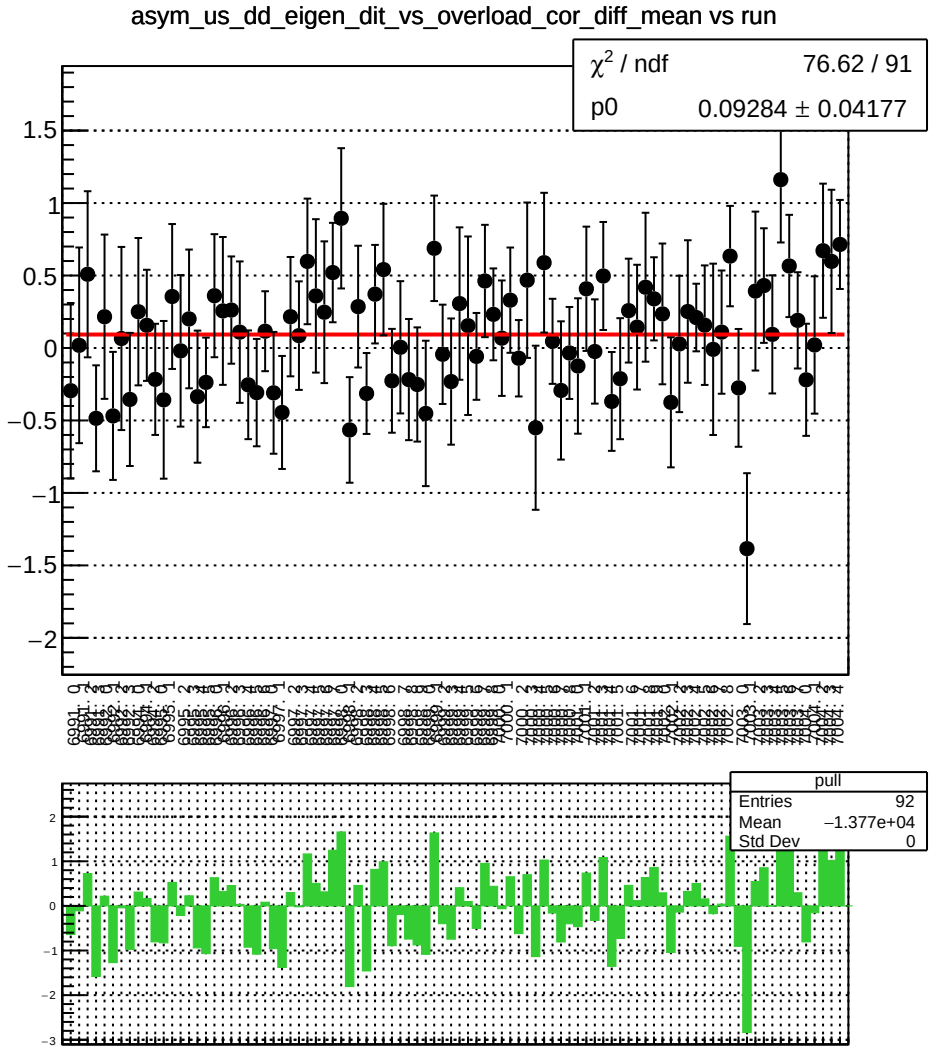

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.49e+04 / 91
p0 0.001009 ± 7.787e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

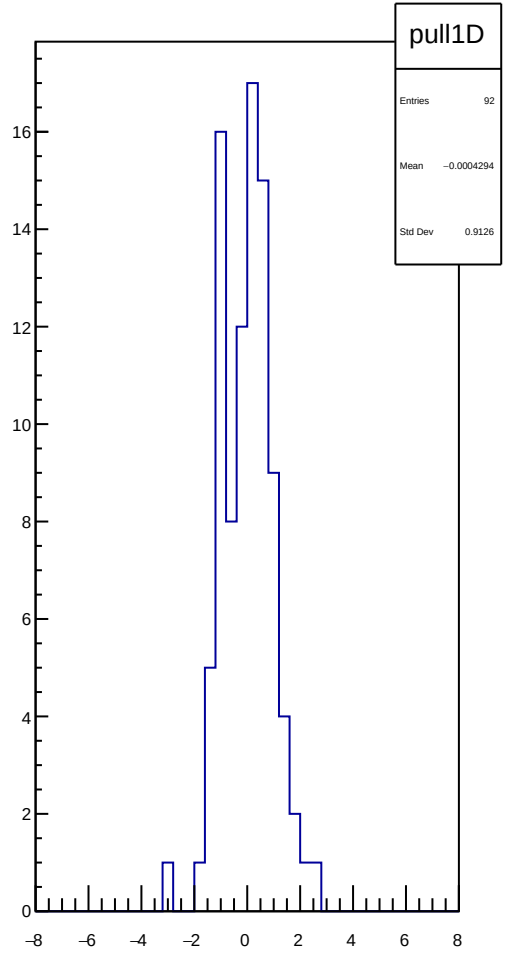

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 91
p0 0.06212 ± 0.02732
pull
Entries 92
Mean 377.6
Std Dev 0
pull1D
Entries 92
Mean 0.007449
Std Dev 1.087

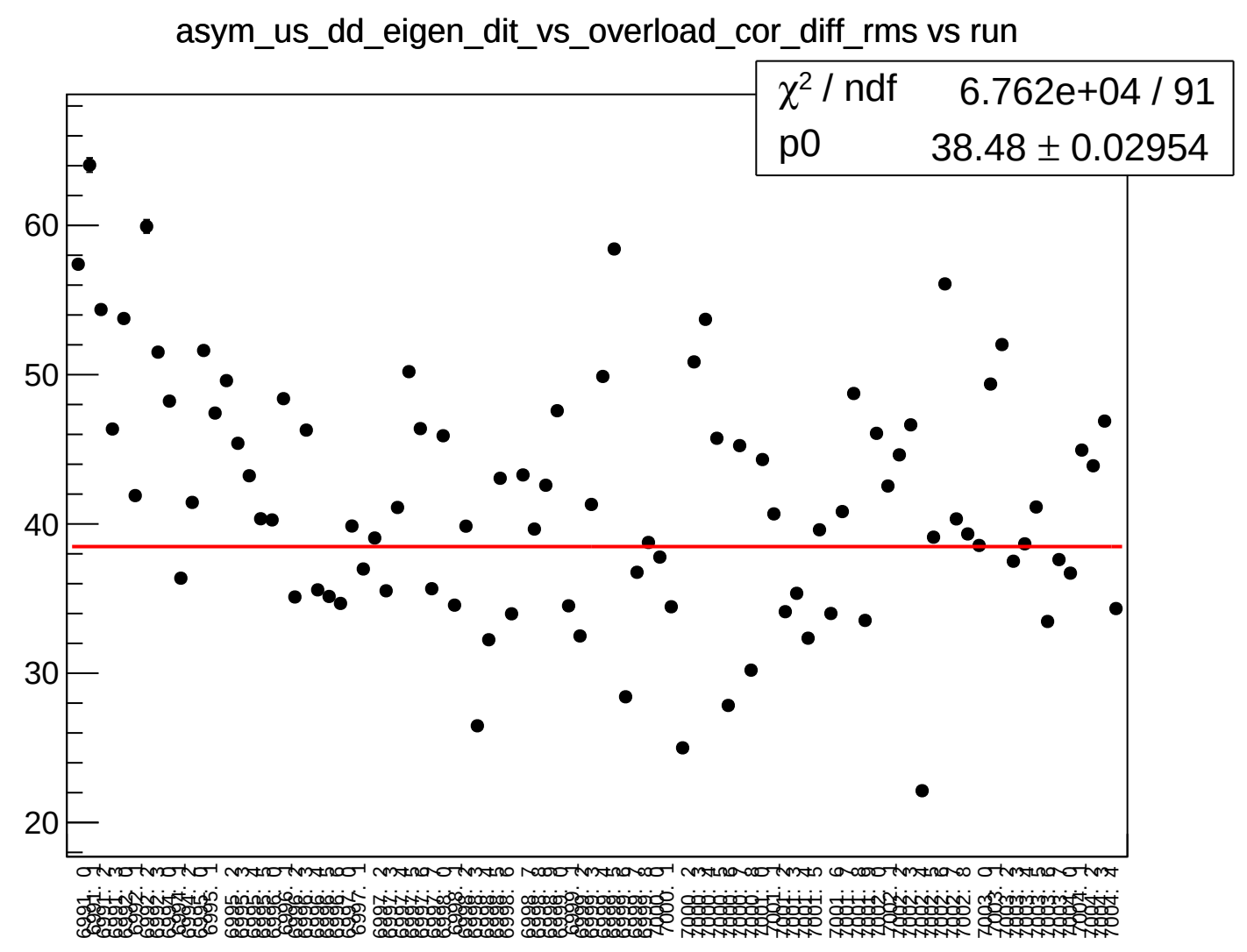

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.265e+05 / 91
p0 24.73 ± 0.01932
50
45
40
35
30
25
20
15

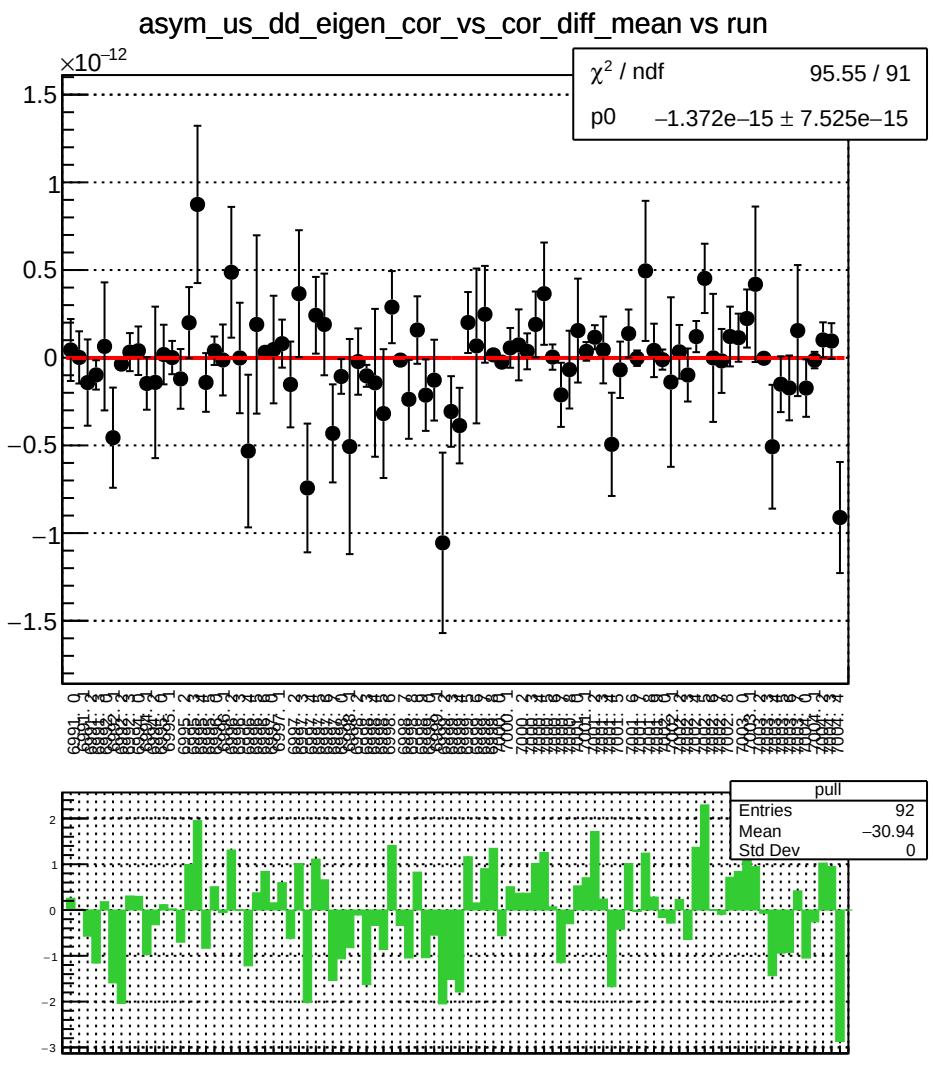

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.8 / 91
p0 0.06212 ± 0.02732
pull
Entries 92
Mean 377.6
Std Dev 0
pull1D
Entries 92
Mean 0.007449
Std Dev 1.087

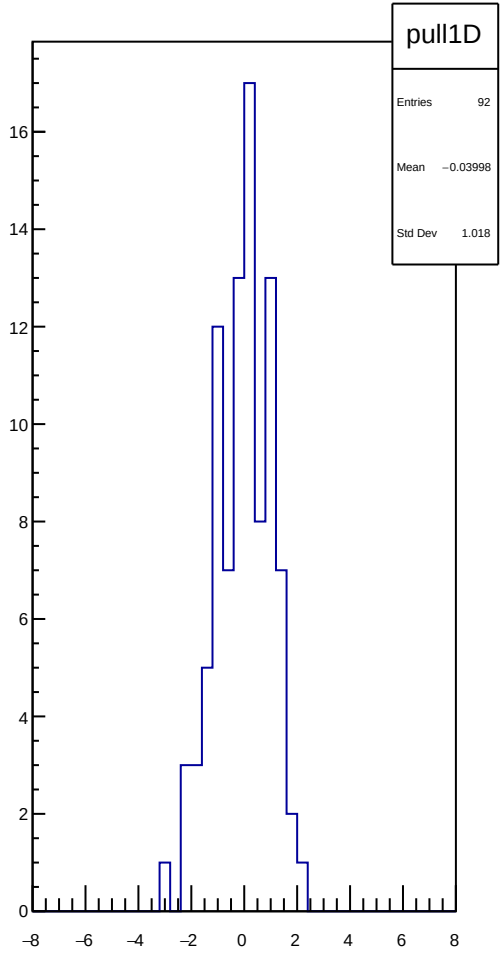

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.265e+05 / 91
p0 24.73 ± 0.01932
50
45
40
35
30
25
20
15

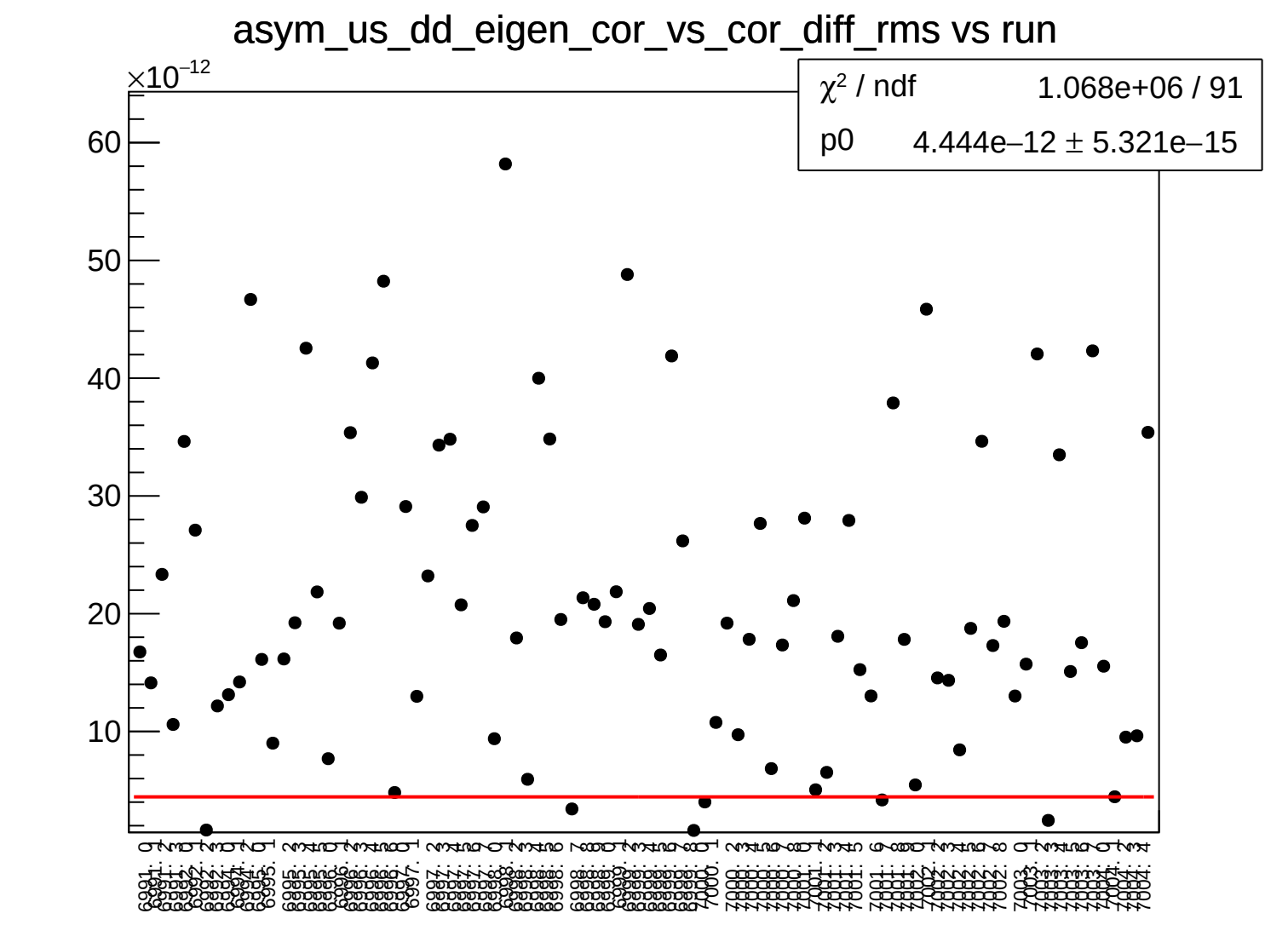

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 76.62 / 91
p0 0.09284 ± 0.04177
pull
Entries 92
Mean −1.377e+04
Std Dev 0

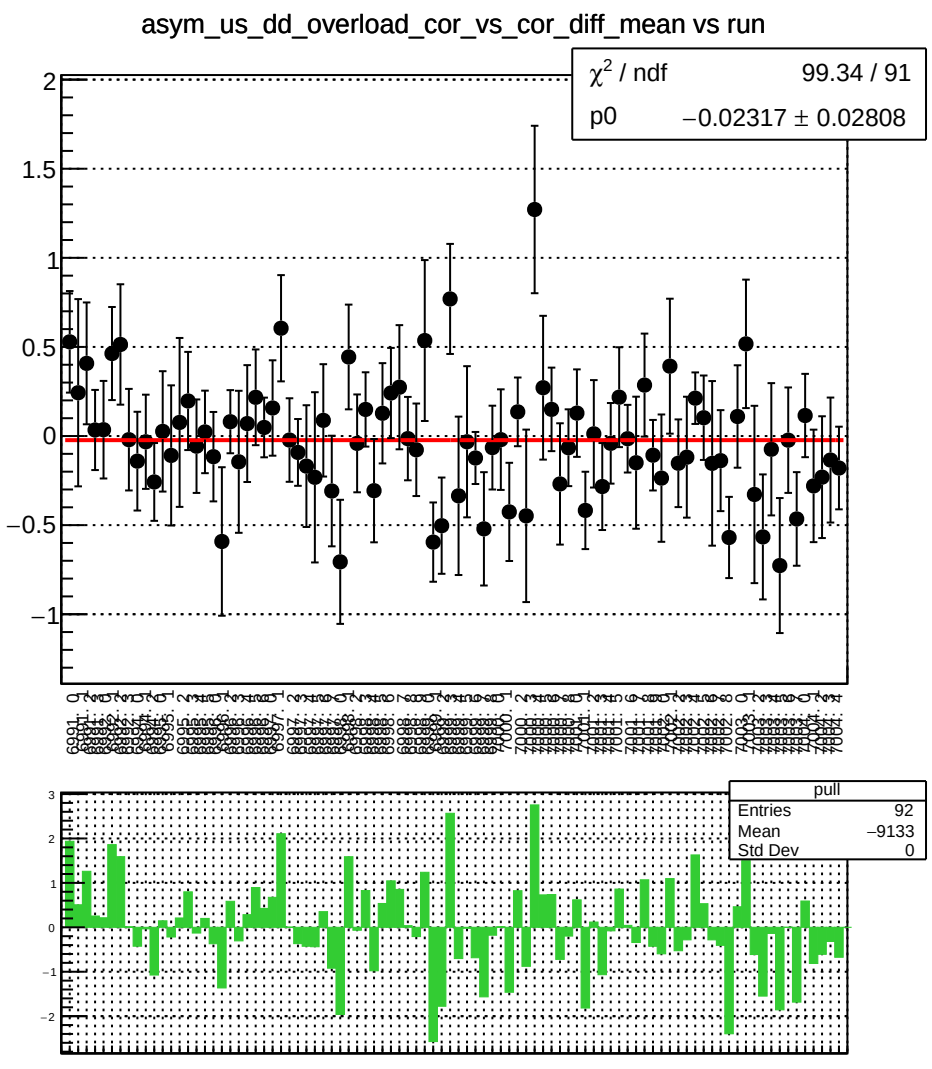

pull1D
Entries 92
Mean −0.0004294
Std Dev 0.9126

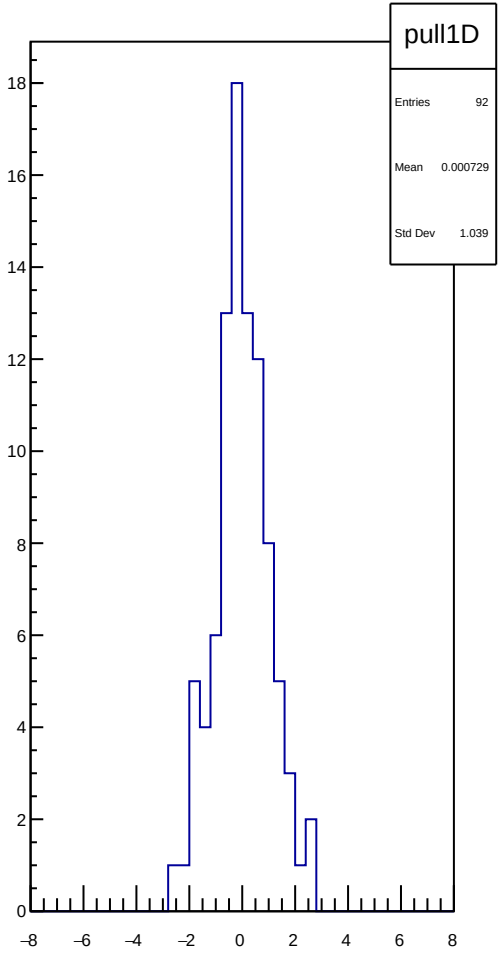

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.762e+04 / 91
p0 38.48 ± 0.02954
60
50
40
30
20

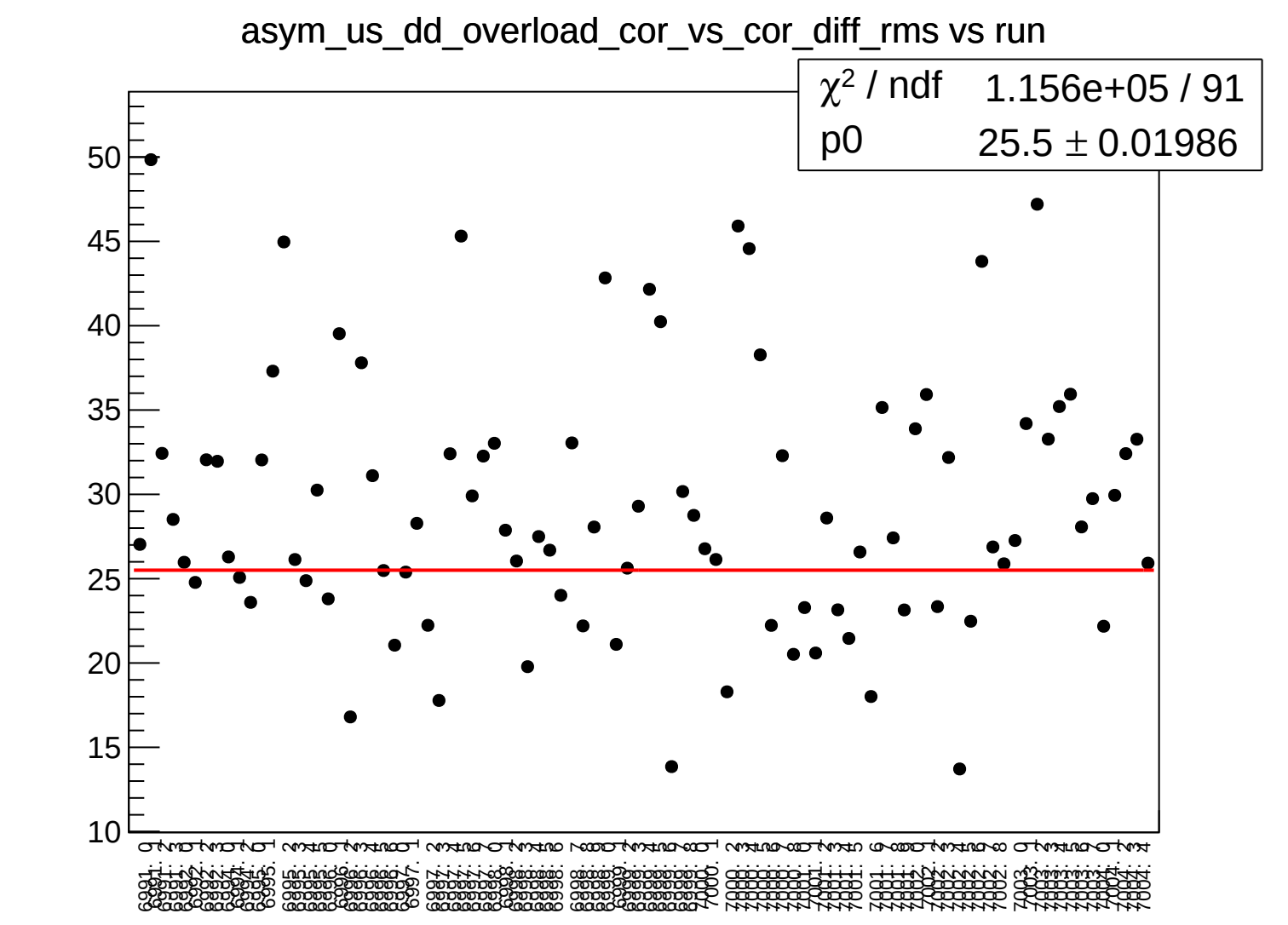

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.55 / 91
p0 −1.372e−15 ± 7.525e−15
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 92
Mean −30.94
Std Dev 0
2
1
0
−1
−2
−3

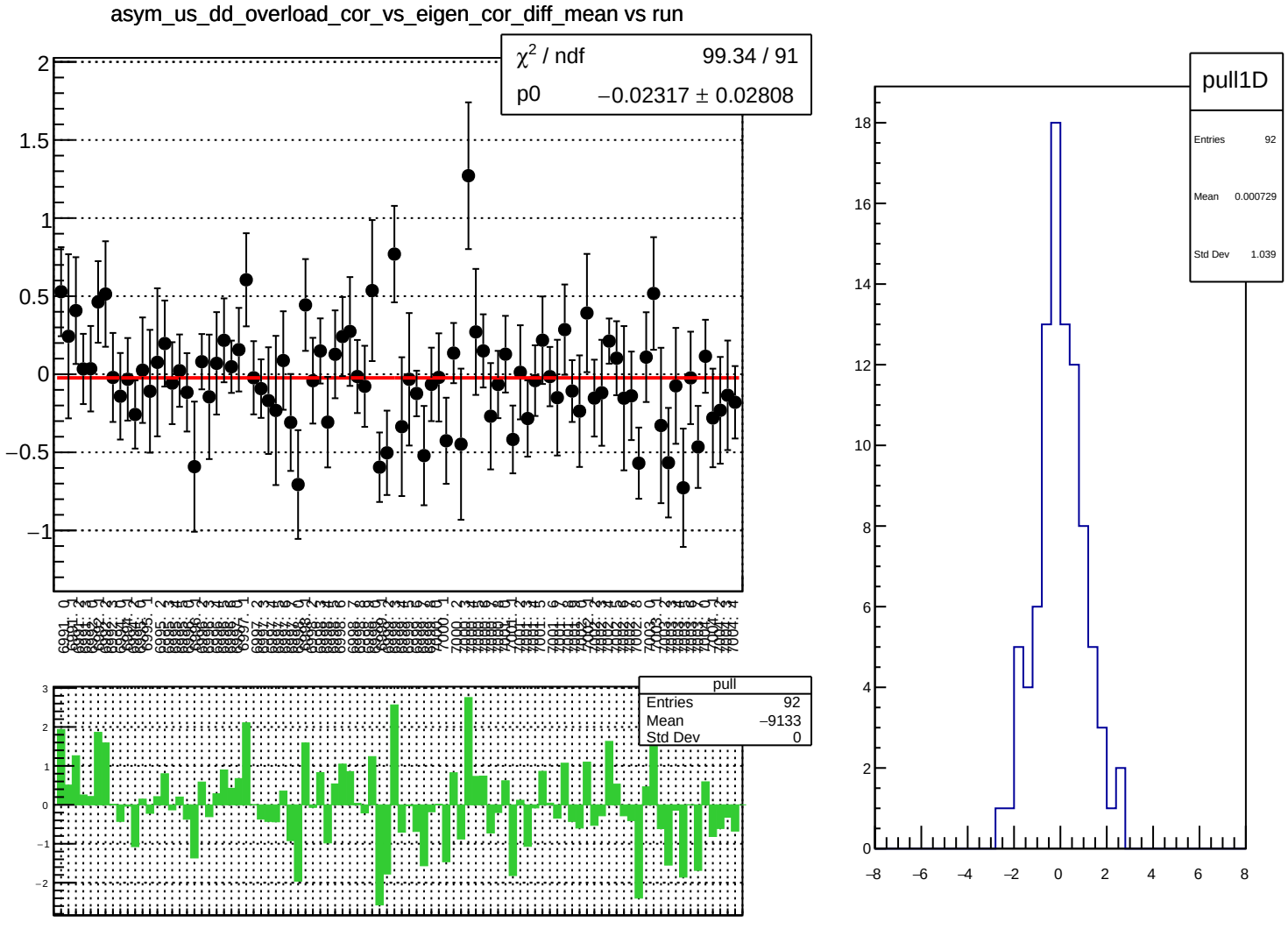

pull1D
Entries 92
Mean −0.03998
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

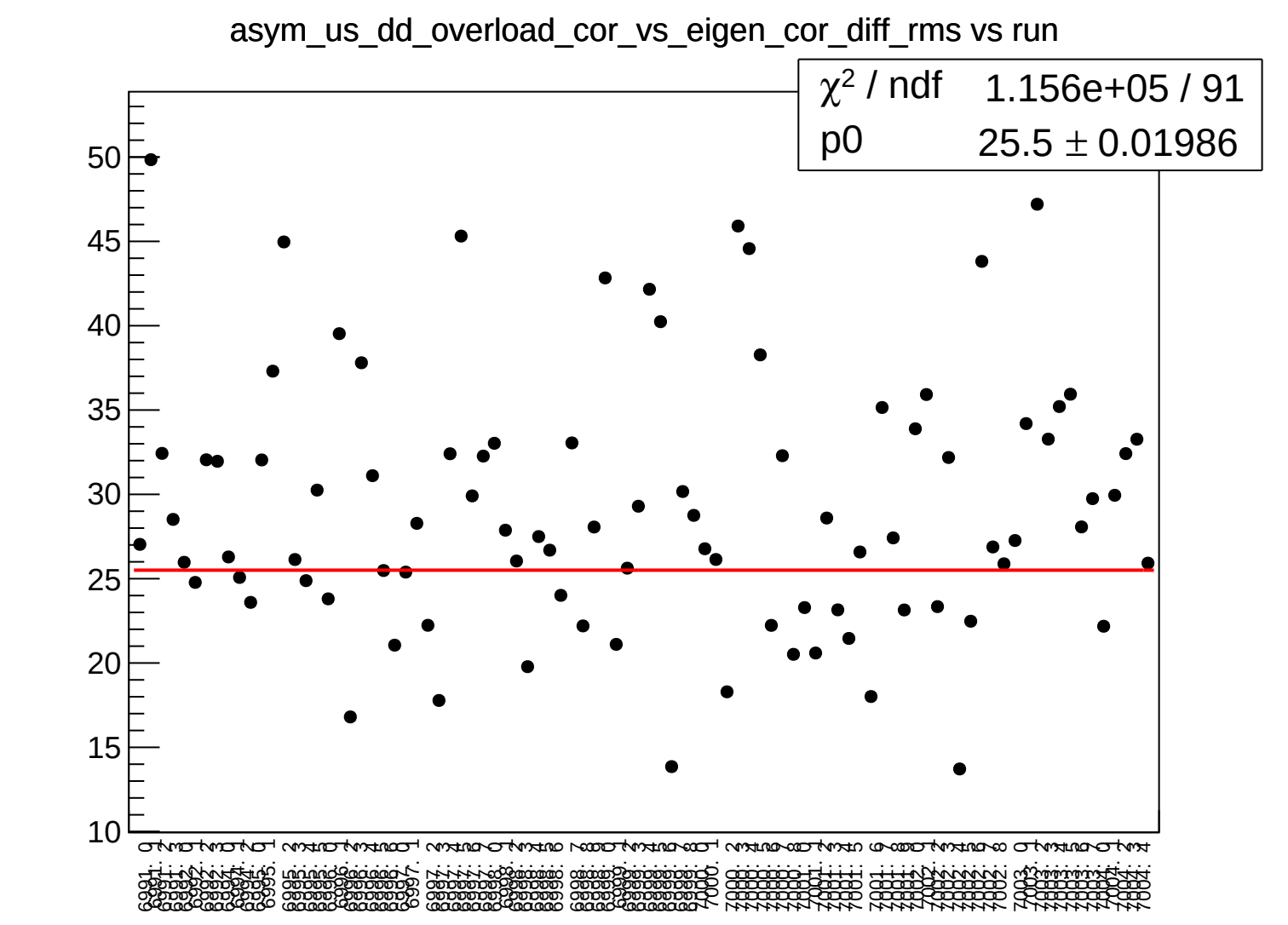

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.068e+06 / 91
p0 4.444e−12 ± 5.321e−15
60
50
40
30
20
10

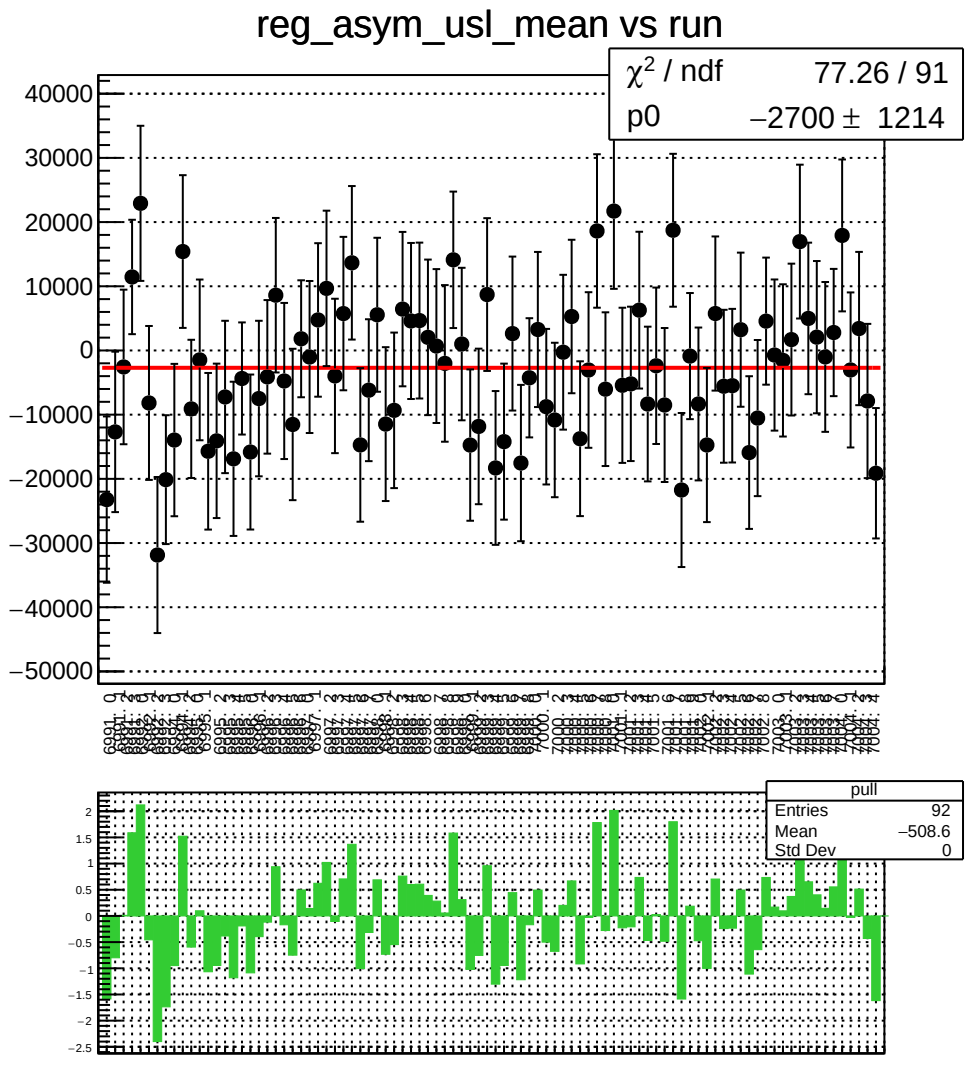

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 99.34 / 91
p0 −0.02317 ± 0.02808
pull
Entries 92
Mean −9133
Std Dev 0

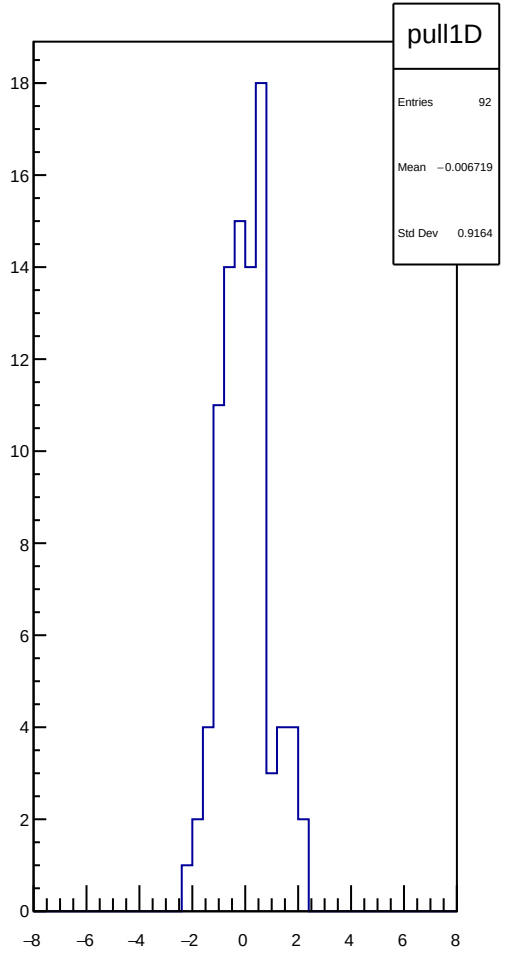

pull1D
Entries 92
Mean 0.000729
Std Dev 1.039

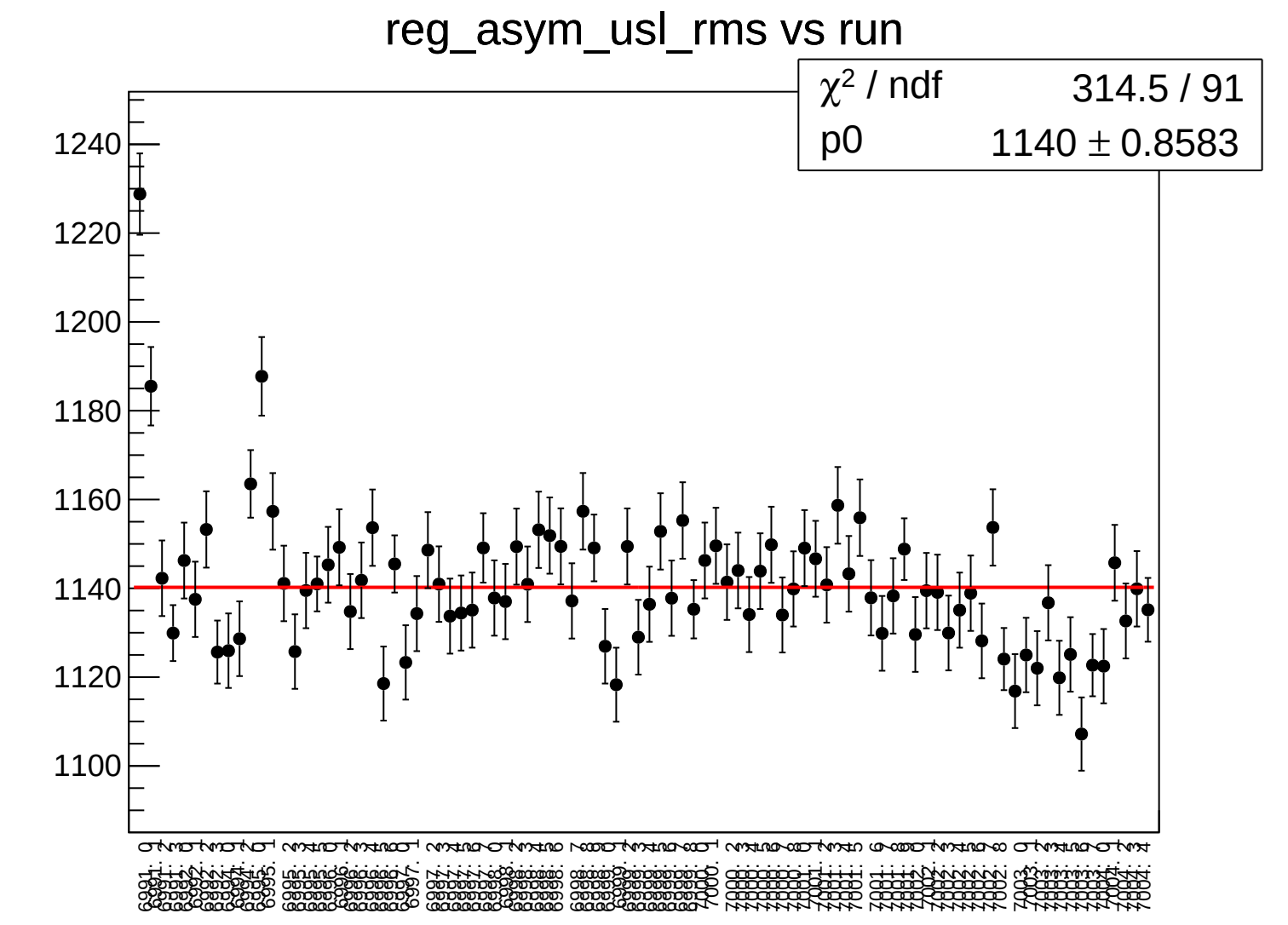

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.156e+05 / 91
p0 25.5 ± 0.01986
50
45
40
35
30
25
20
15
10

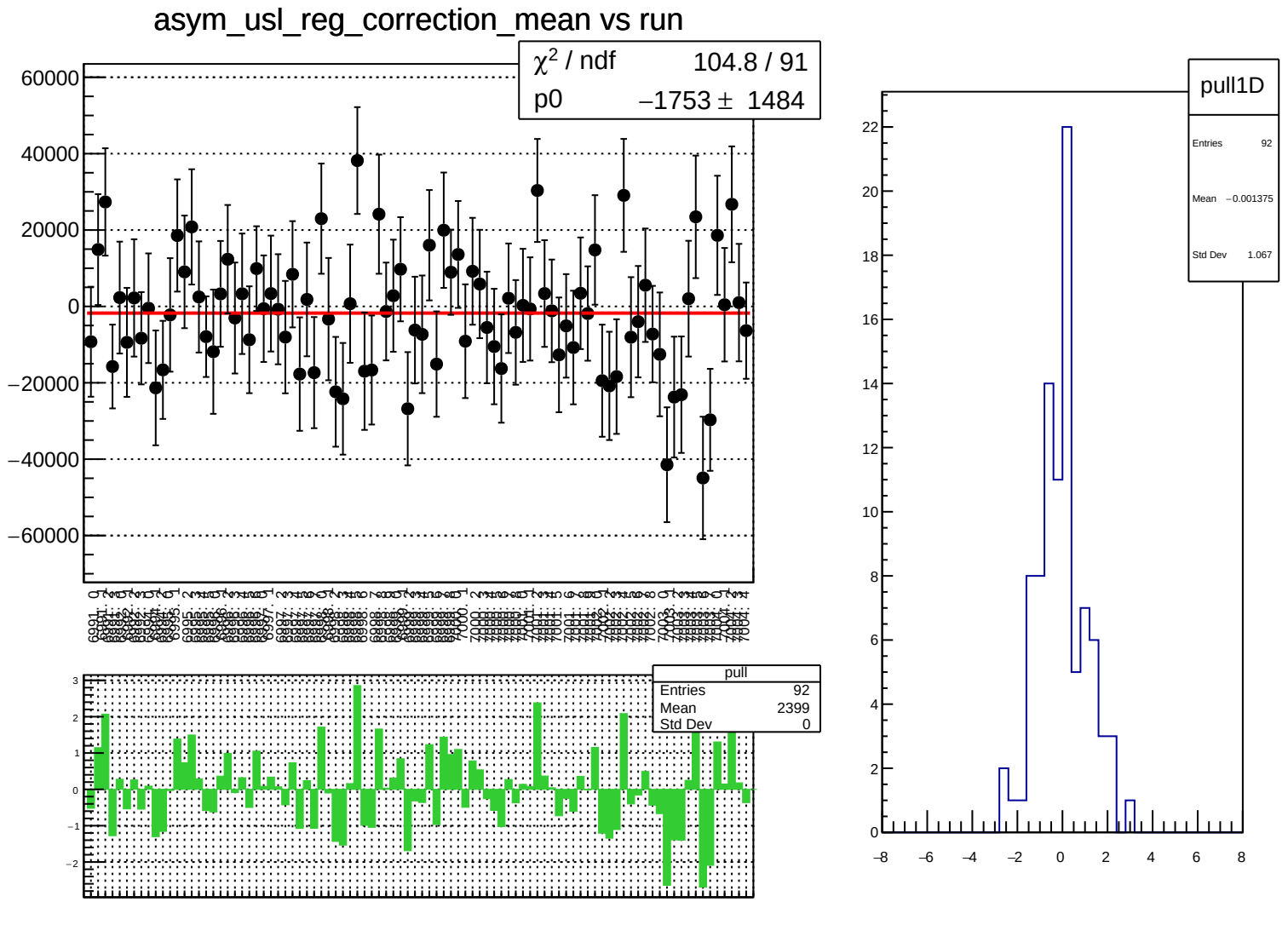

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.34 / 91
p0 −0.02317 ± 0.02808
pull
Entries 92
Mean −9133
Std Dev 0
pull1D
Entries 92
Mean 0.000729
Std Dev 1.039

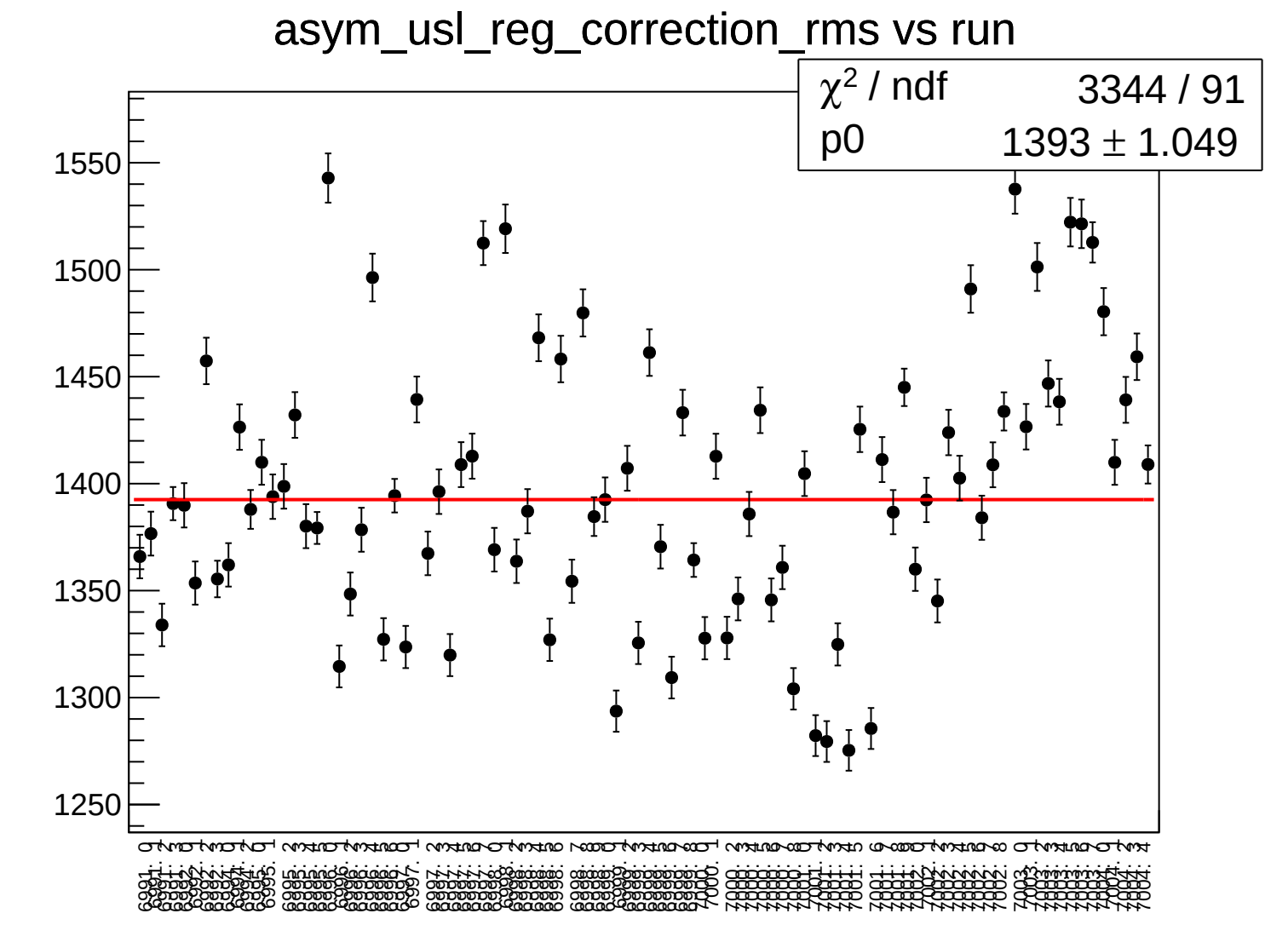

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.156e+05 / 91
p0 25.5 ± 0.01986
50
45
40
35
30
25
20
15
10

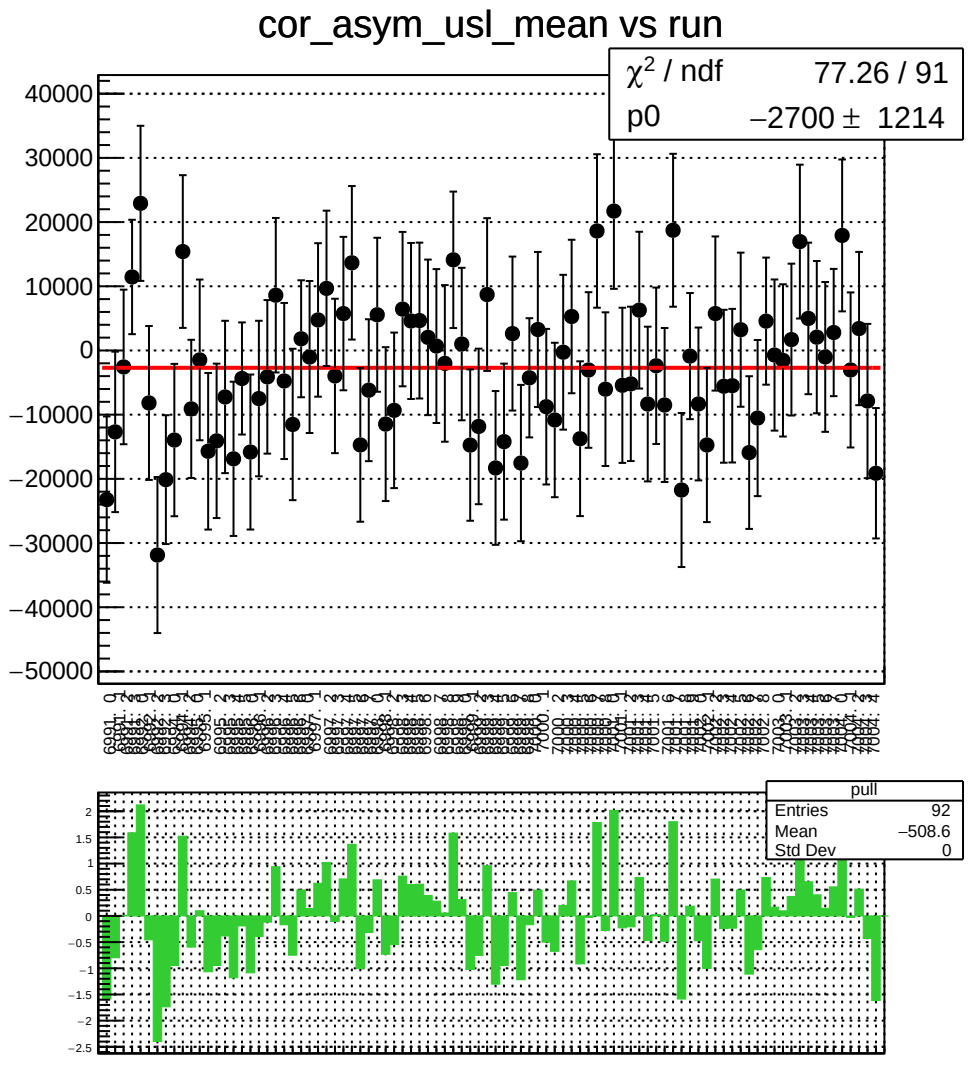

reg_asym_usl_mean vs run
χ² / ndf 77.26 / 91
p0 −2700 ± 1214
pull
Entries 92
Mean −508.6
Std Dev 0

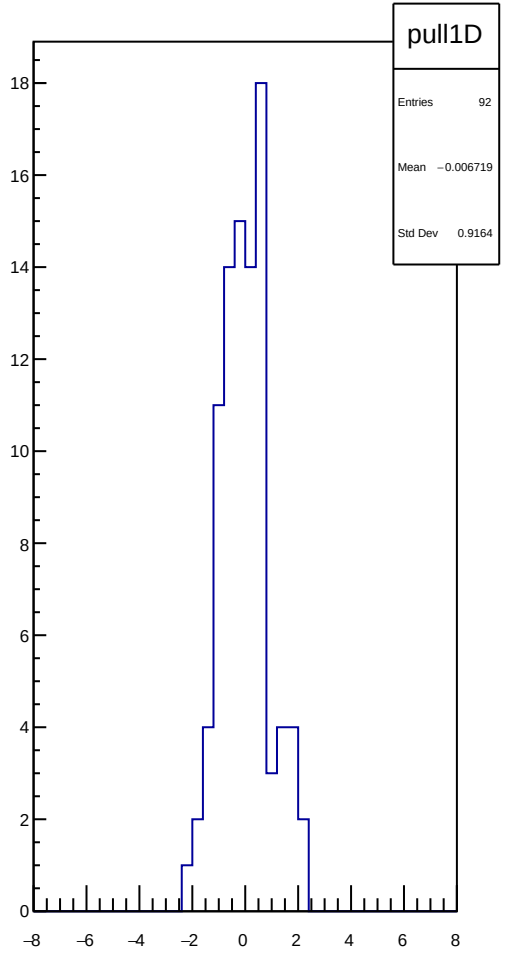

pull1D
Entries 92
Mean −0.006719
Std Dev 0.9164

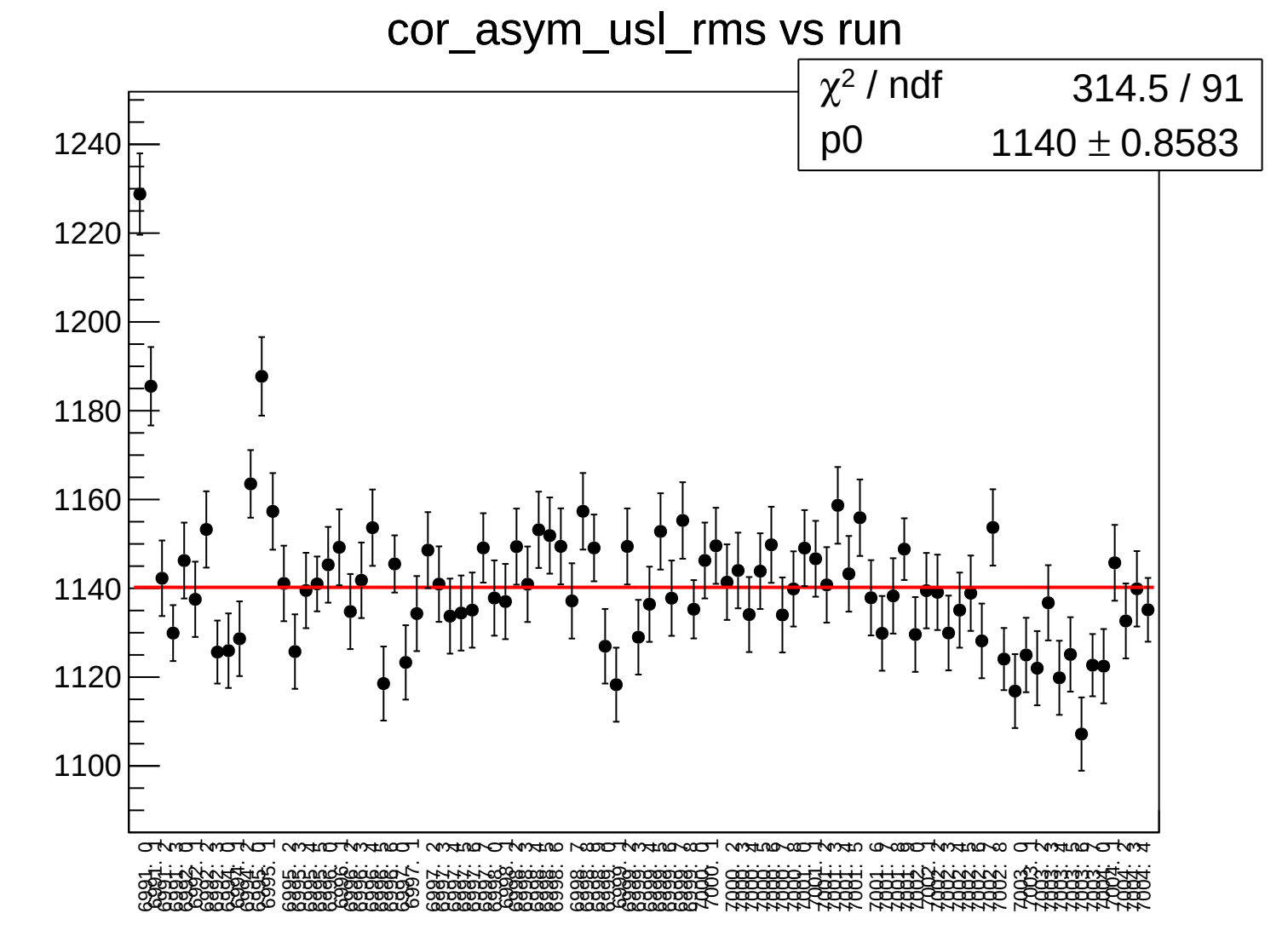

reg_asym_usl_rms vs run
χ² / ndf 314.5 / 91
p0 1140 ± 0.8583
1240
1220
1200
1180
1160
1140
1120
1100

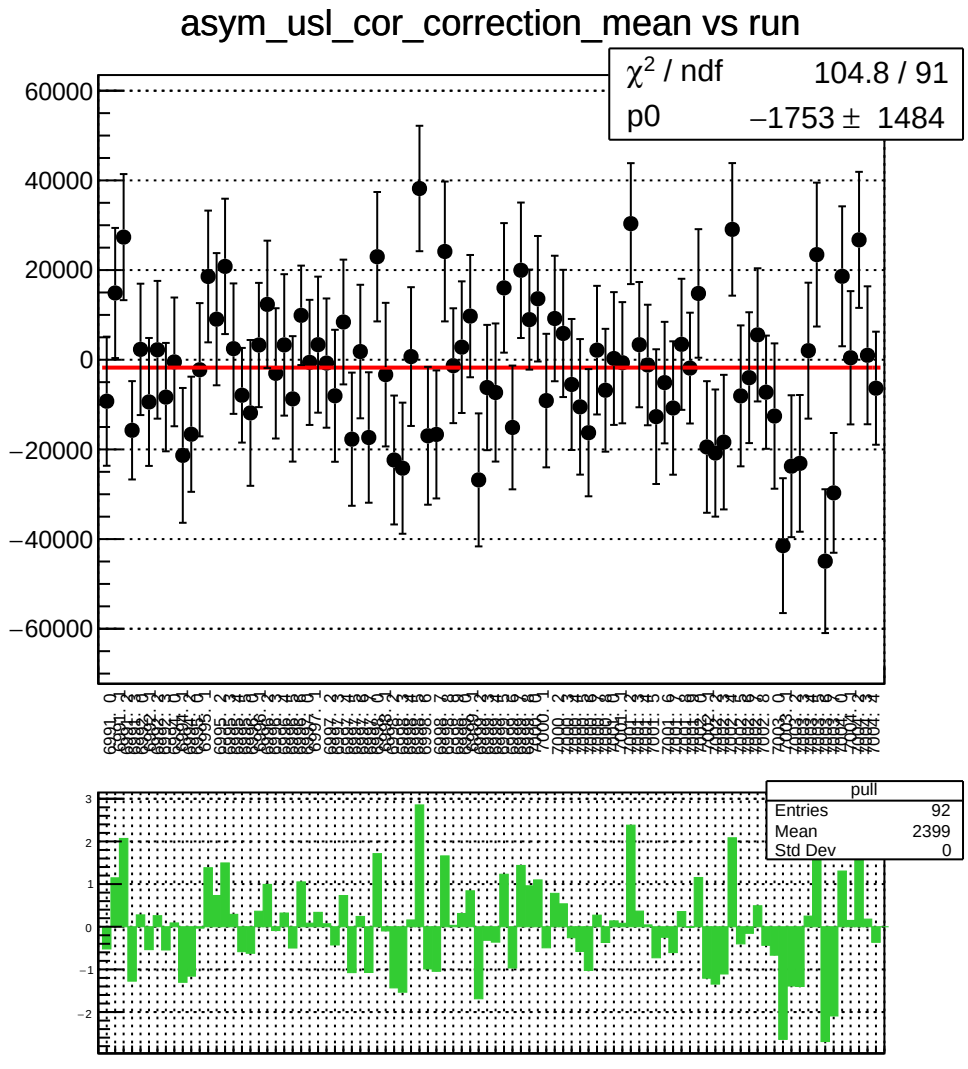

asym_usl_reg_correction_mean vs run
χ² / ndf 104.8 / 91
p0 −1753 ± 1484
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 2399
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001375
Std Dev 1.067
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

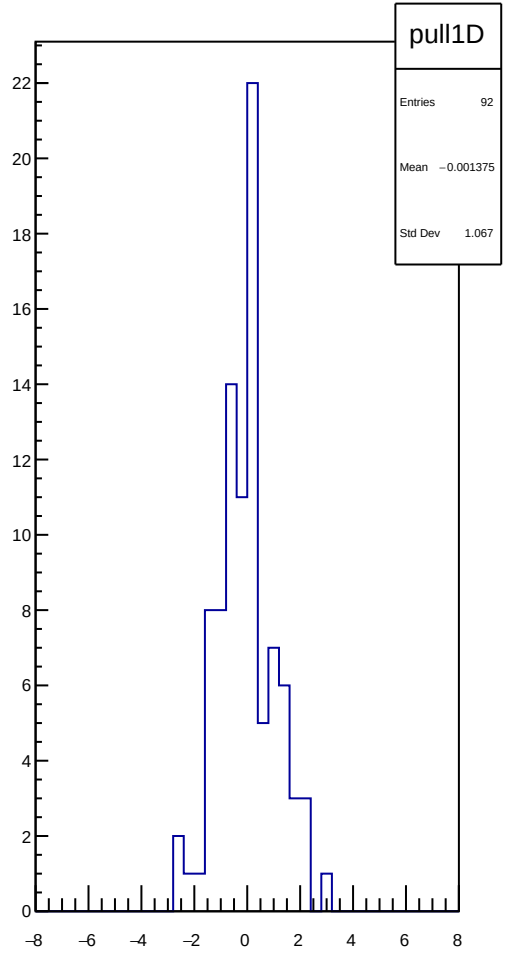

asym_usl_reg_correction_rms vs run
χ² / ndf 3344 / 91
p0 1393 ± 1.049
1550
1500
1450
1400
1350
1300
1250

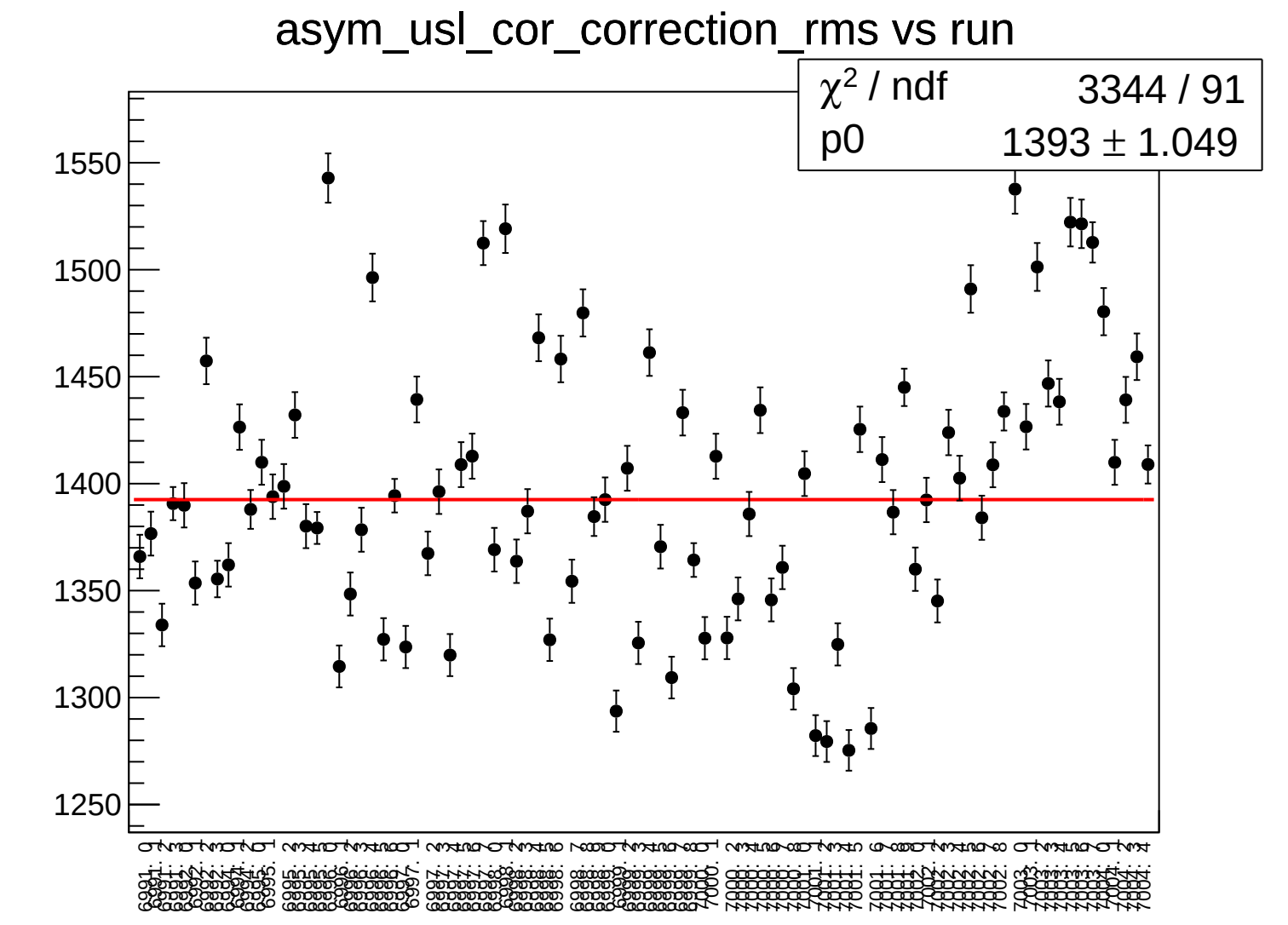

cor_asym_usl_mean vs run
χ² / ndf 77.26 / 91
p0 −2700 ± 1214
pull
Entries 92
Mean −508.6
Std Dev 0

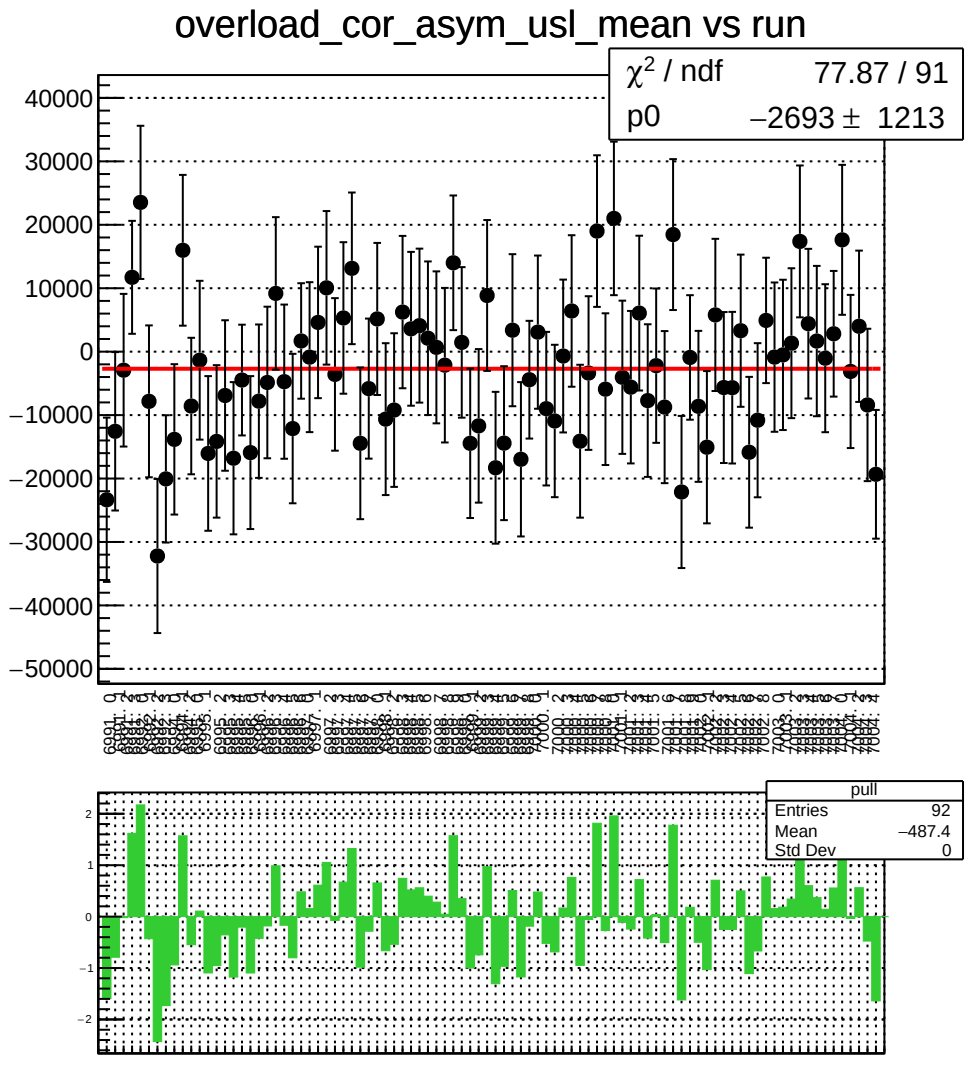

pull1D
Entries 92
Mean −0.006719
Std Dev 0.9164

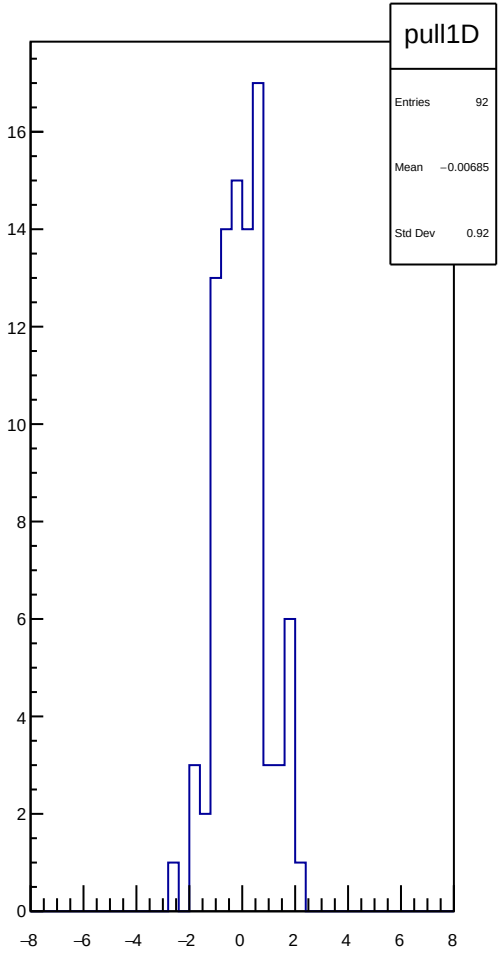

cor_asym_usl_rms vs run
χ² / ndf 314.5 / 91
p0 1140 ± 0.8583
1240
1220
1200
1180
1160
1140
1120
1100

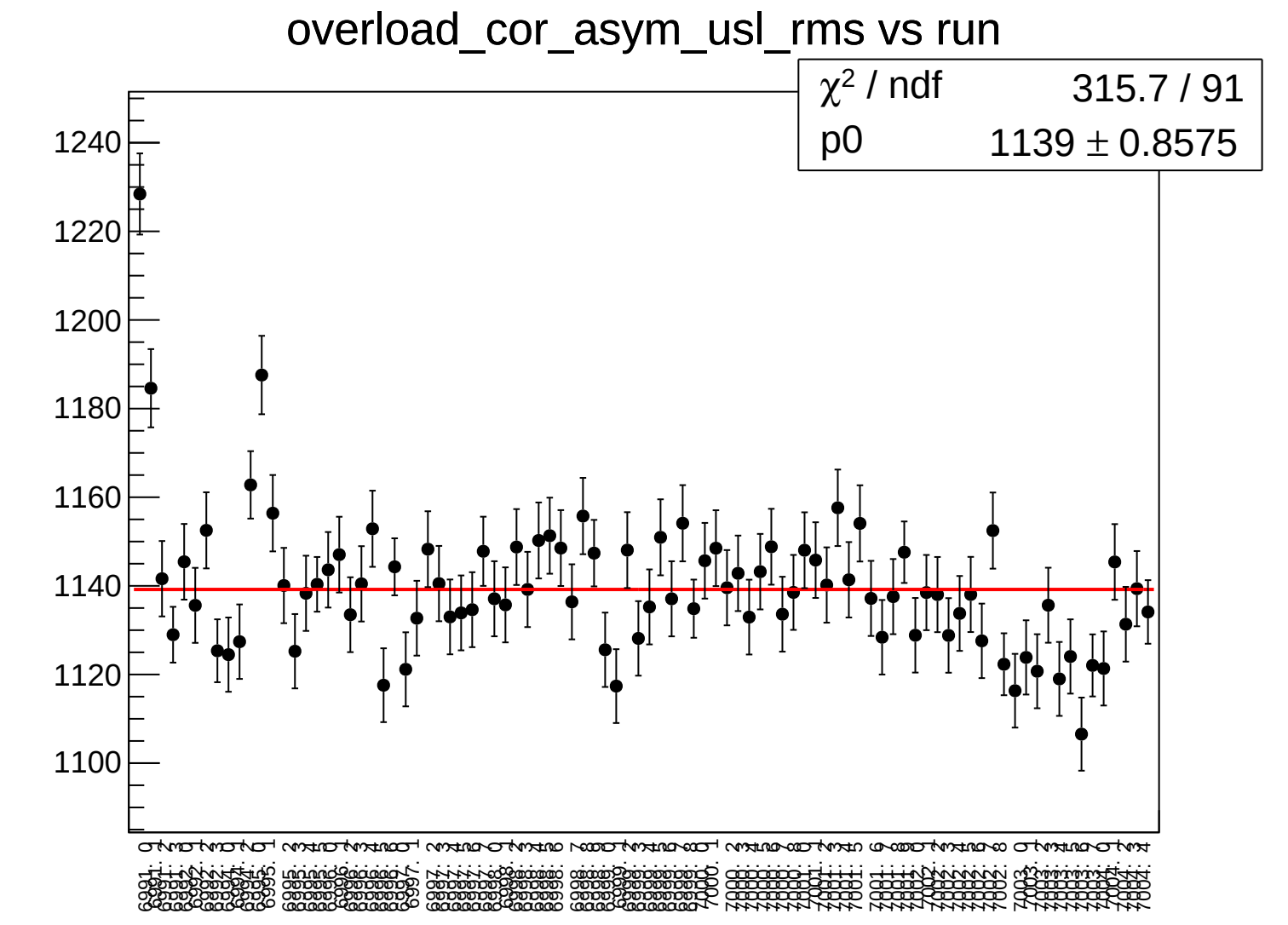

asym_usl_cor_correction_mean vs run
χ² / ndf 104.8 / 91
p0 −1753 ± 1484
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 2399
Std Dev 0
3
2
1
0
−1
−2

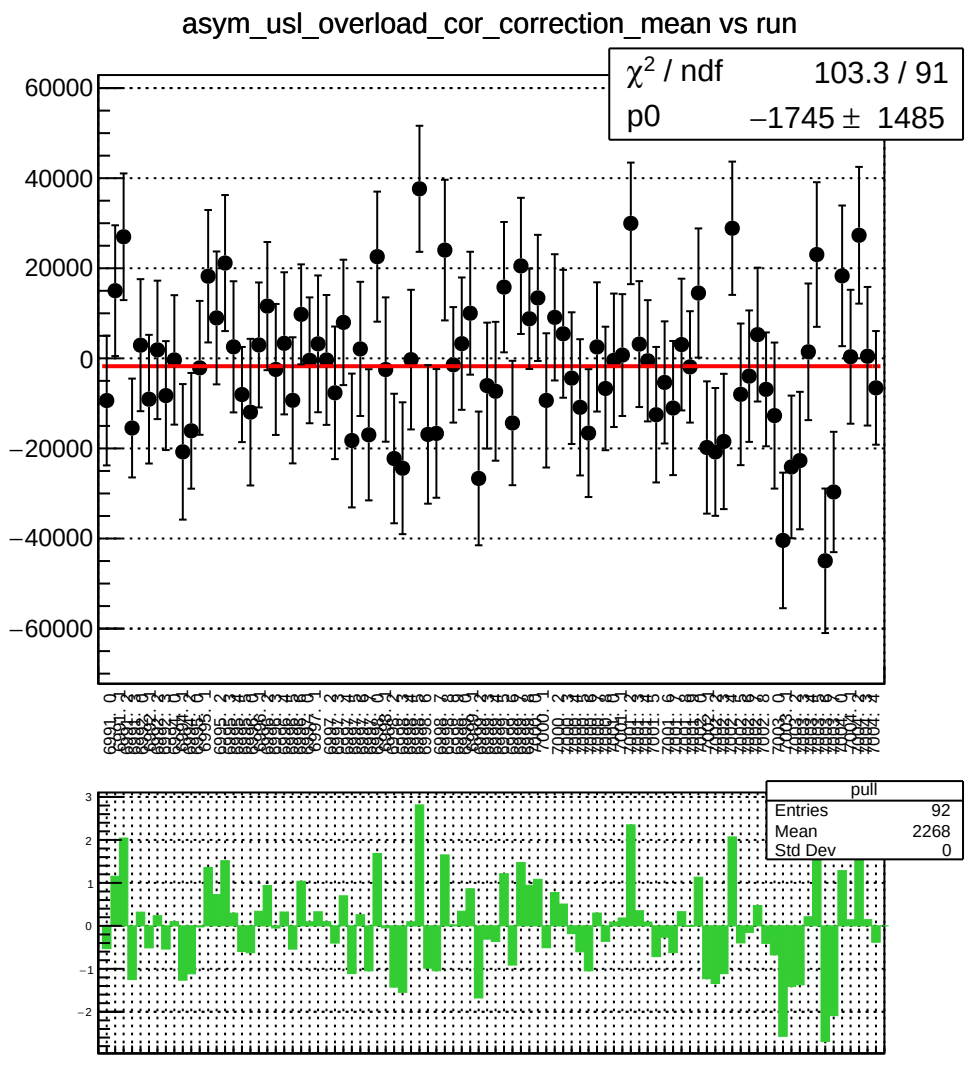

pull1D
Entries 92
Mean −0.001375
Std Dev 1.067
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

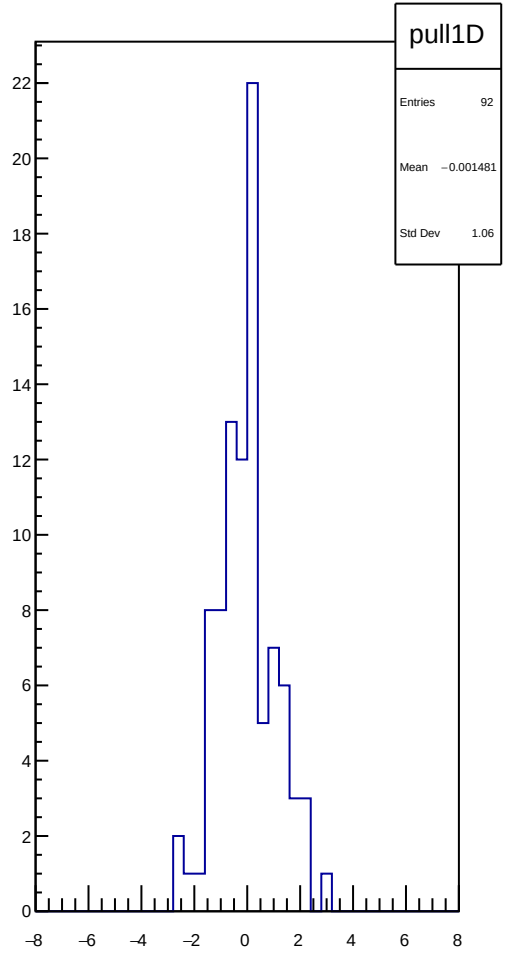

asym_usl_cor_correction_rms vs run
χ² / ndf 3344 / 91
p0 1393 ± 1.049
1550
1500
1450
1400
1350
1300
1250

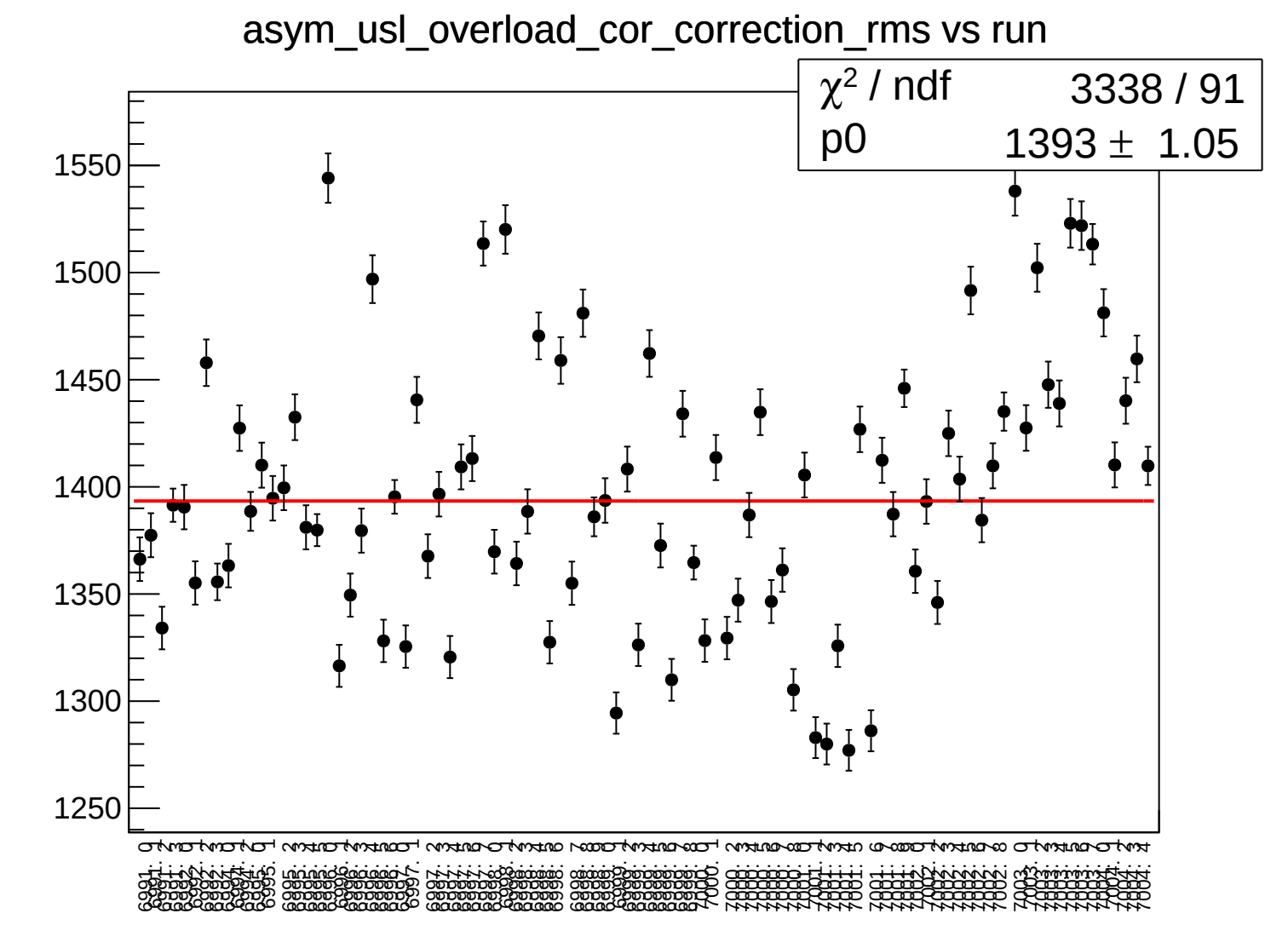

overload_cor_asym_usl_mean vs run
χ² / ndf 77.87 / 91
p0 −2693 ± 1213
pull
Entries 92
Mean −487.4
Std Dev 0

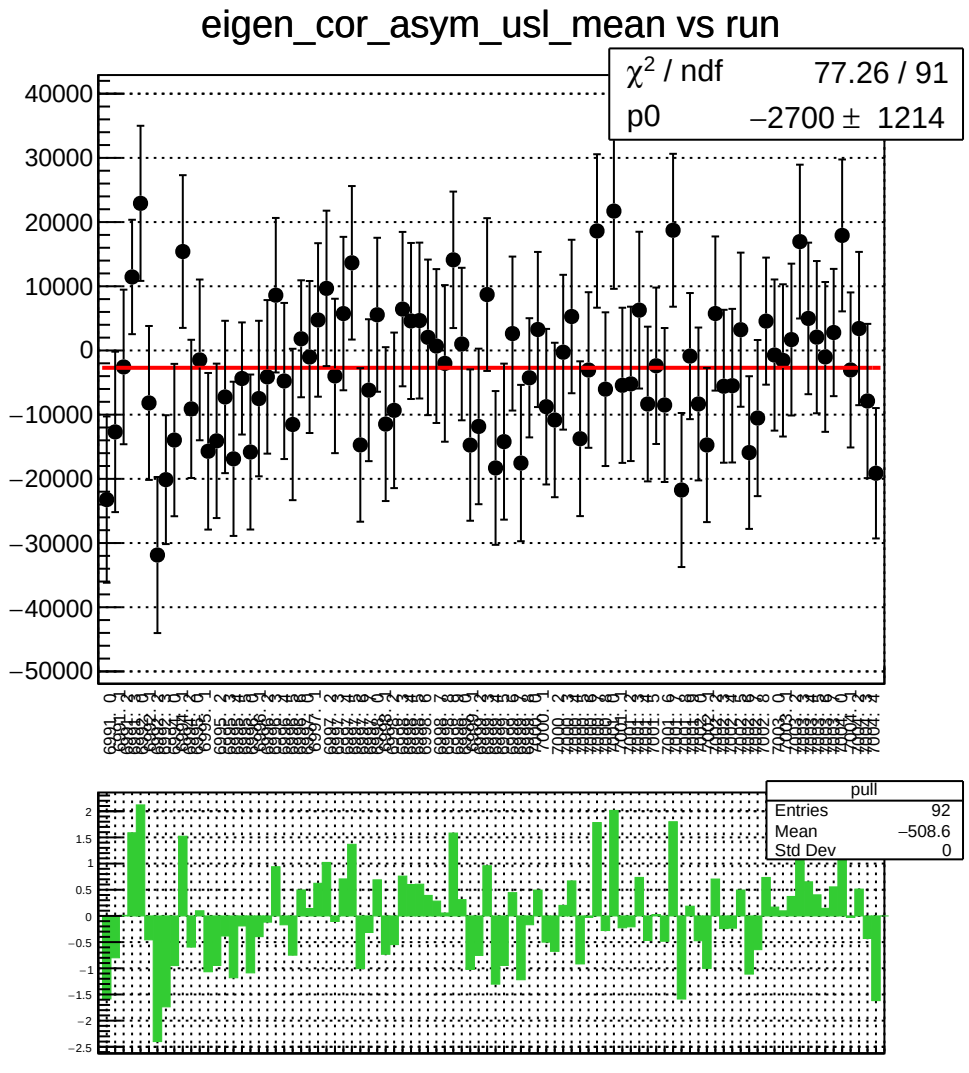

pull1D
Entries 92
Mean −0.00685
Std Dev 0.92

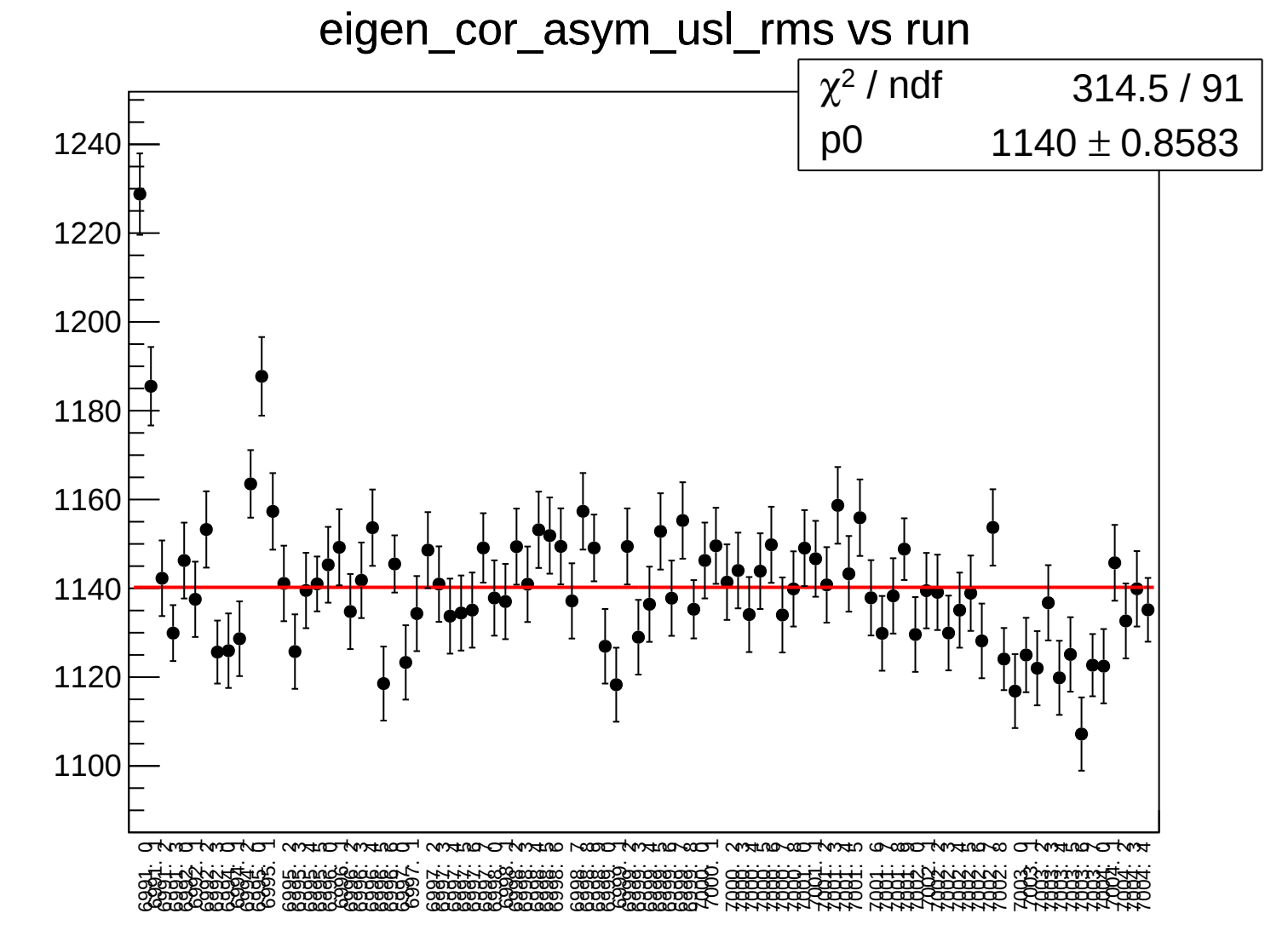

overload_cor_asym_usl_rms vs run
χ² / ndf 315.7 / 91
p0 1139 ± 0.8575
1240
1220
1200
1180
1160
1140
1120
1100

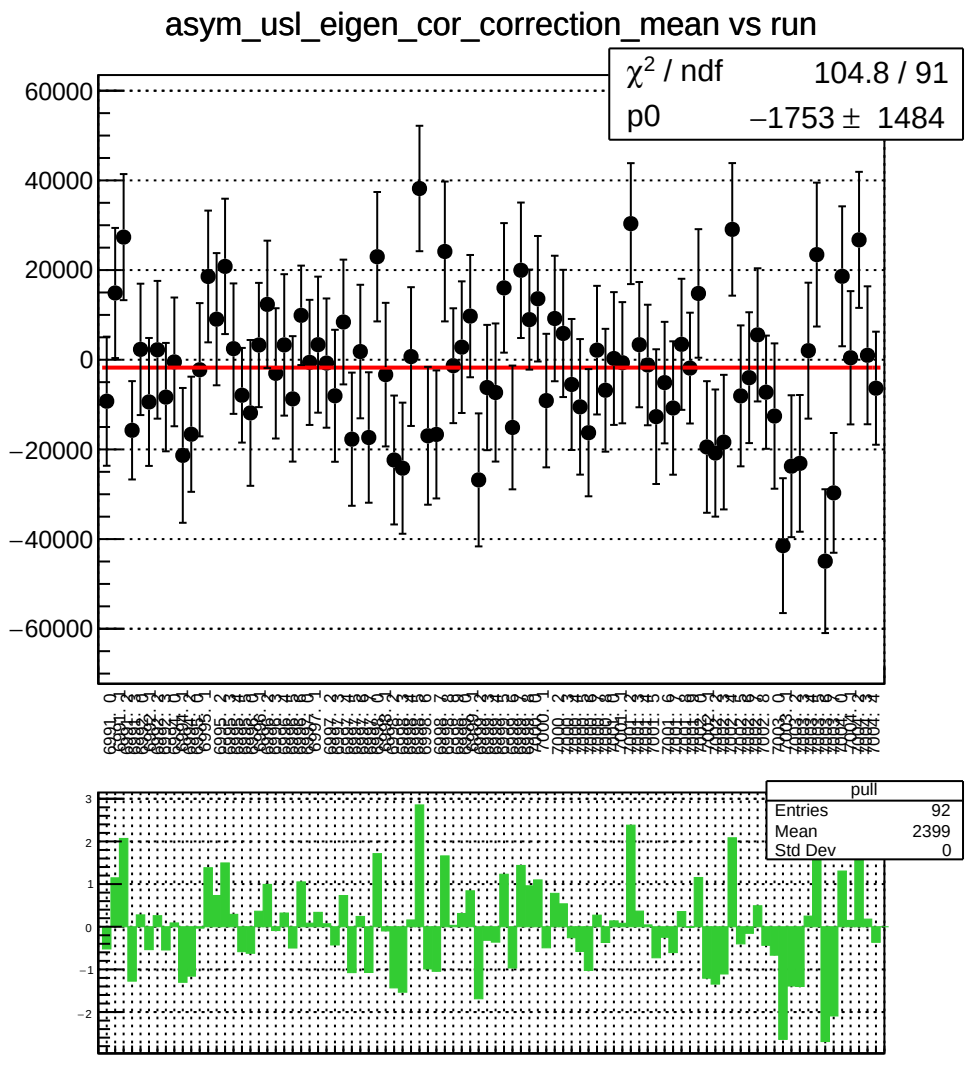

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 103.3 / 91
p0 −1745 ± 1485
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 2268
Std Dev 0
3
2
1
0
−1
−2

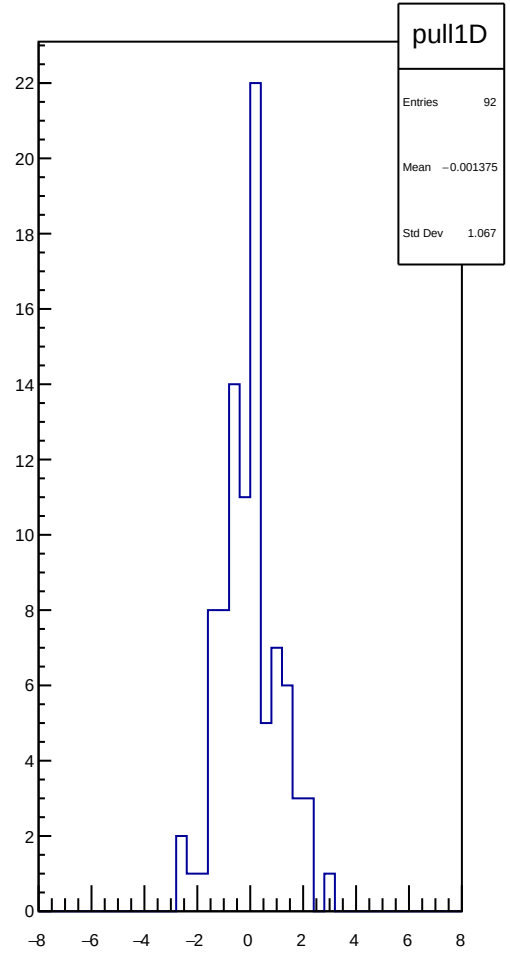

pull1D
Entries 92
Mean −0.001481
Std Dev 1.06
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

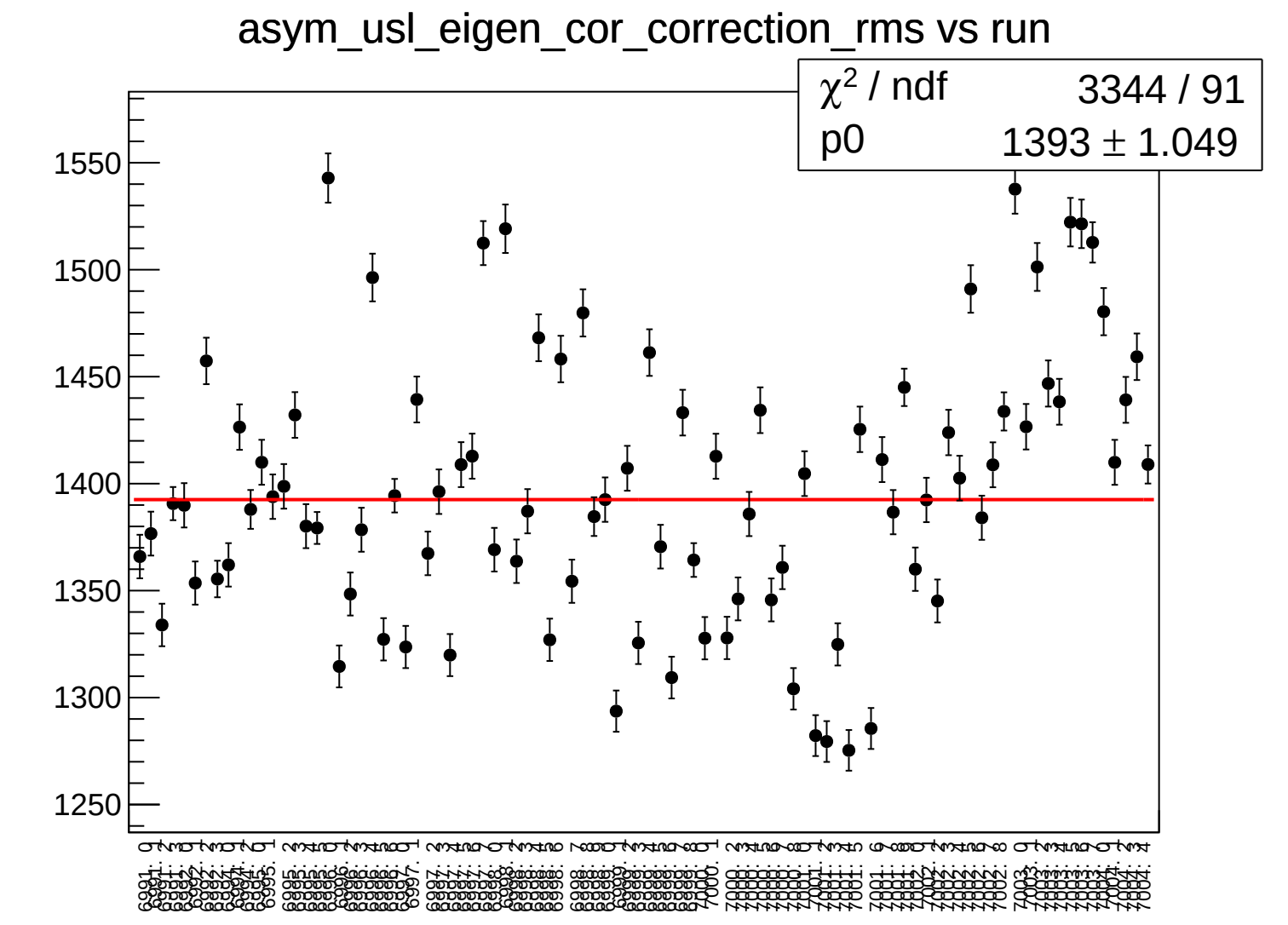

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 3338 / 91
p0 1393 ± 1.05
1550
1500
1450
1400
1350
1300
1250

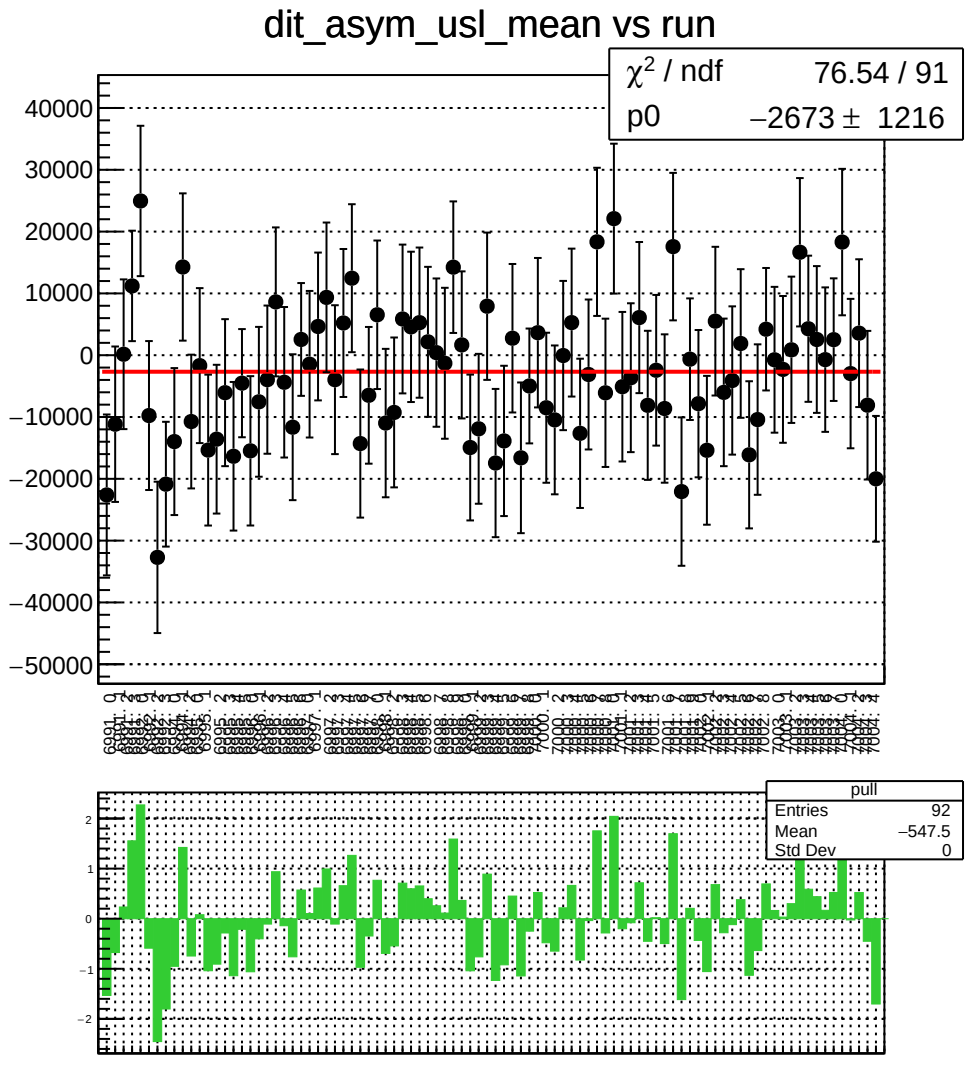

eigen_cor_asym_usl_mean vs run
χ² / ndf 77.26 / 91
p0 −2700 ± 1214
pull
Entries 92
Mean −508.6
Std Dev 0
pull1D
Entries 92
Mean −0.006719
Std Dev 0.9164

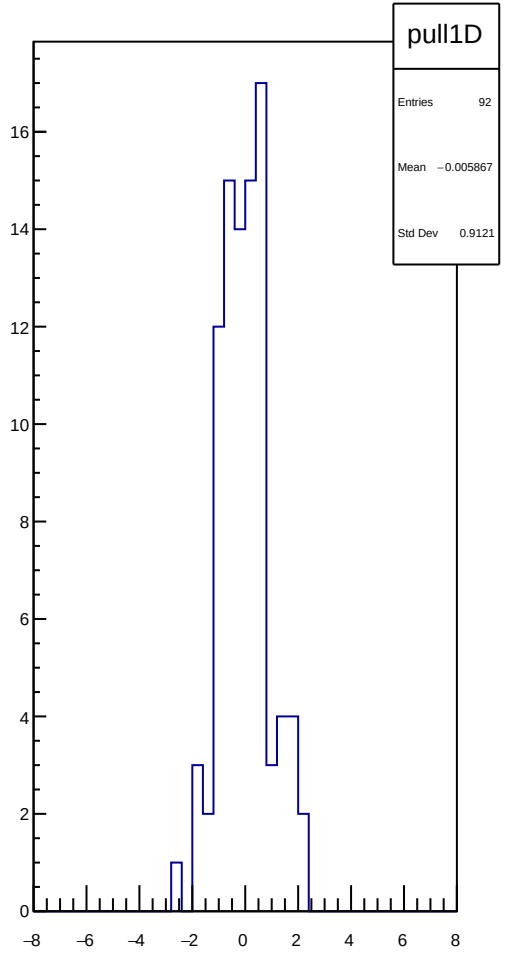

eigen_cor_asym_usl_rms vs run
χ² / ndf 314.5 / 91
p0 1140 ± 0.8583
1240
1220
1200
1180
1160
1140
1120
1100

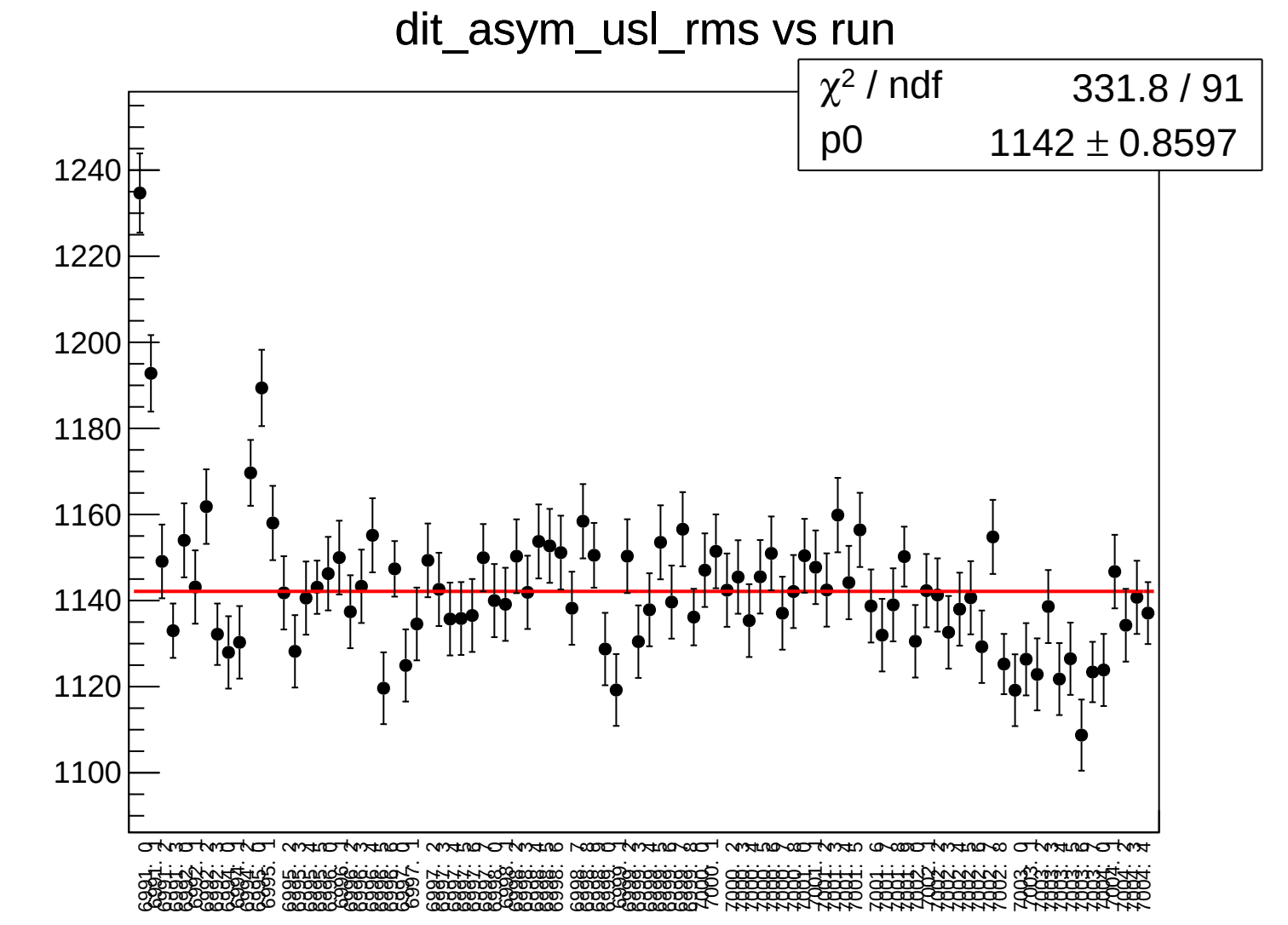

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 104.8 / 91
p0 −1753 ± 1484
pull
Entries 92
Mean 2399
Std Dev 0

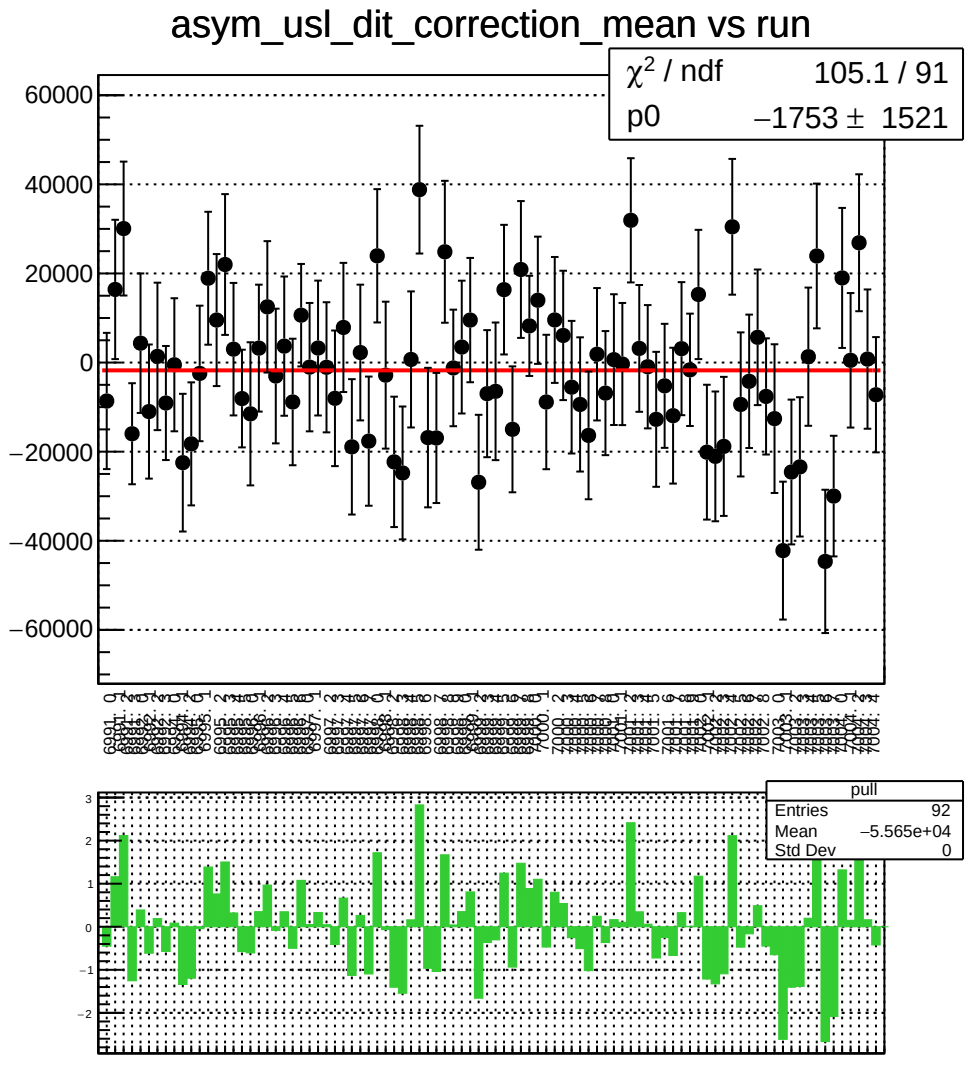

pull1D
Entries 92
Mean −0.001375
Std Dev 1.067

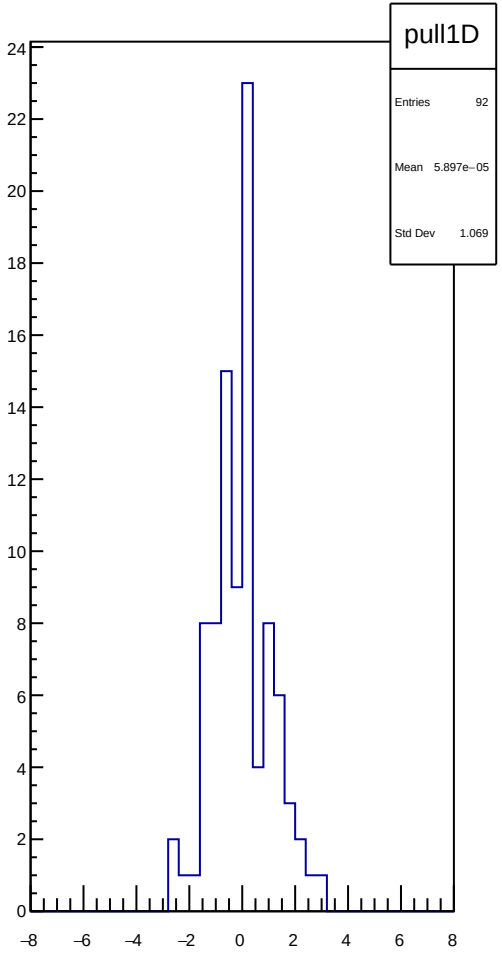

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 3344 / 91
p0 1393 ± 1.049
1550
1500
1450
1400
1350
1300
1250

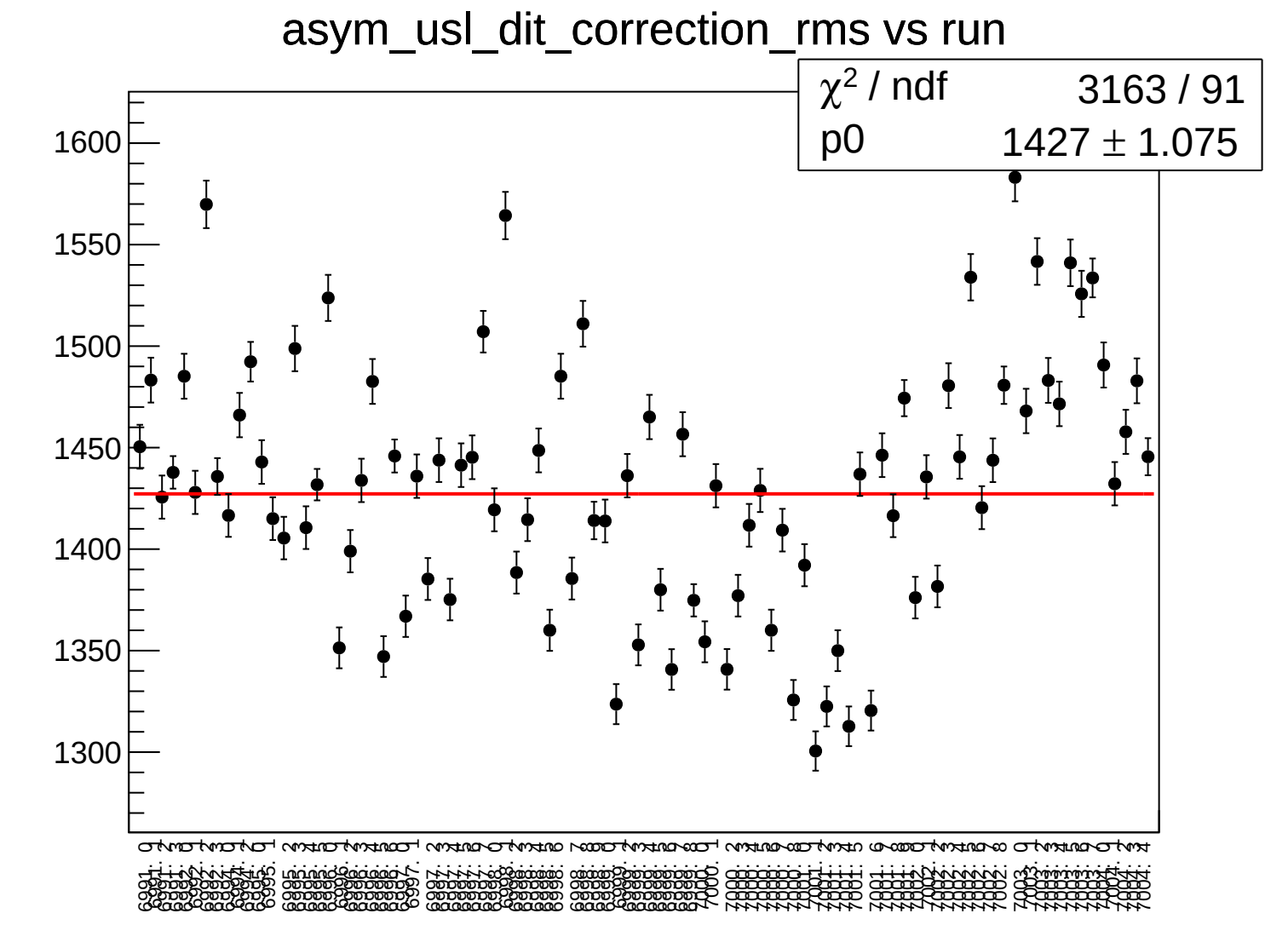

dit_asym_usl_mean vs run
χ² / ndf 76.54 / 91
p0 −2673 ± 1216
pull
Entries 92
Mean −547.5
Std Dev 0

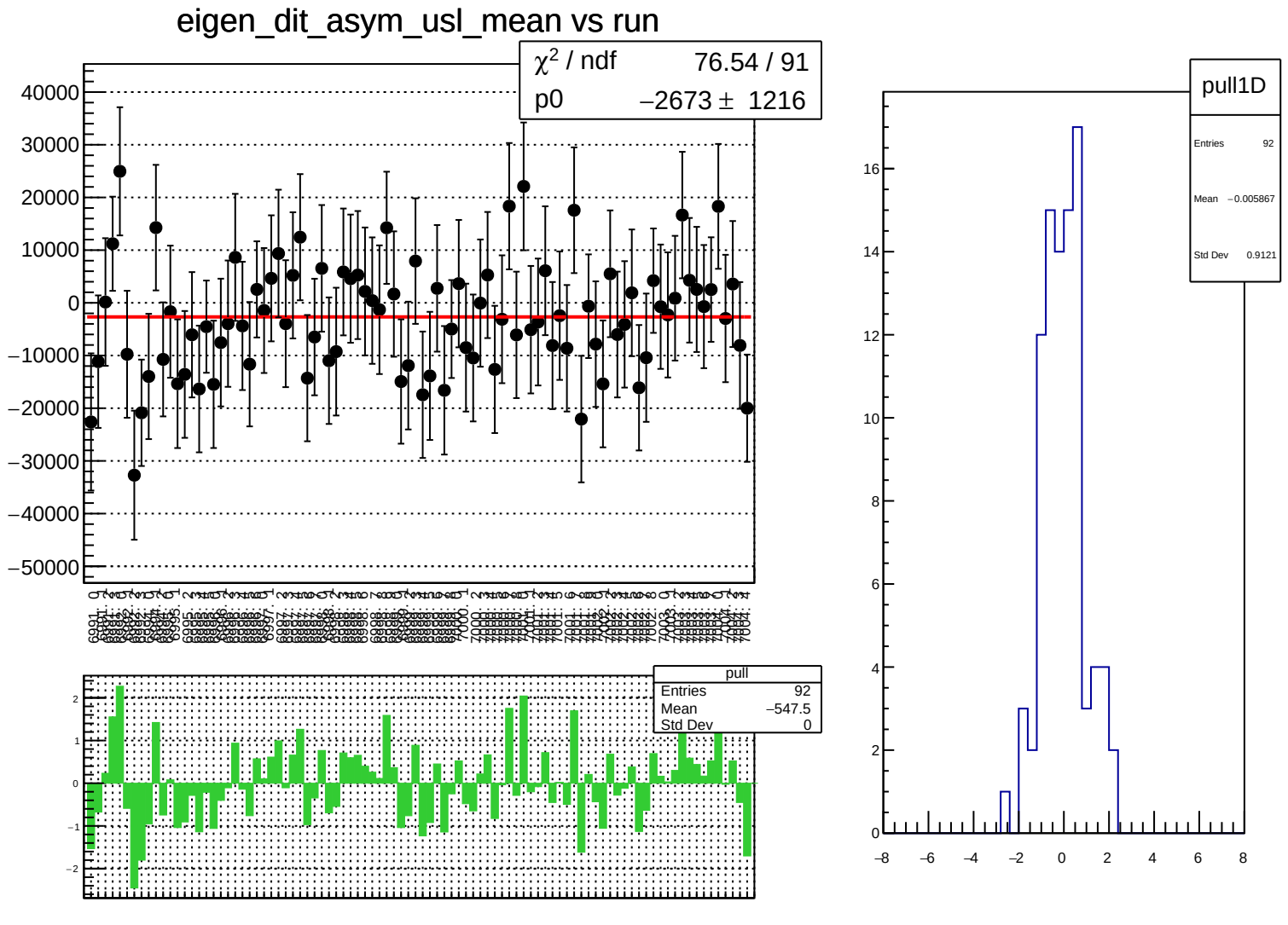

pull1D
Entries 92
Mean −0.005867
Std Dev 0.9121

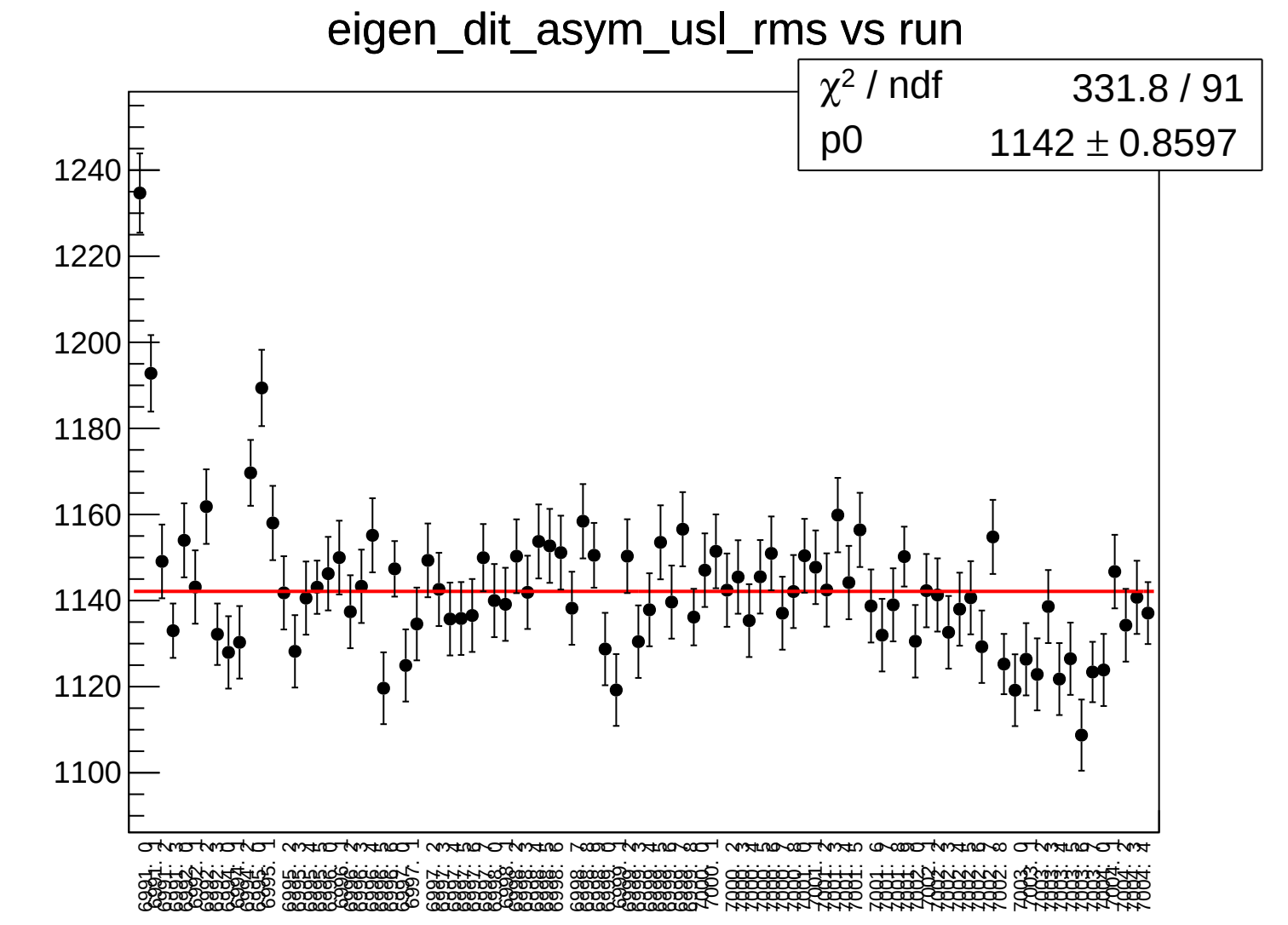

dit_asym_usl_rms vs run
χ² / ndf 331.8 / 91
p0 1142 ± 0.8597
1240
1220
1200
1180
1160
1140
1120
1100

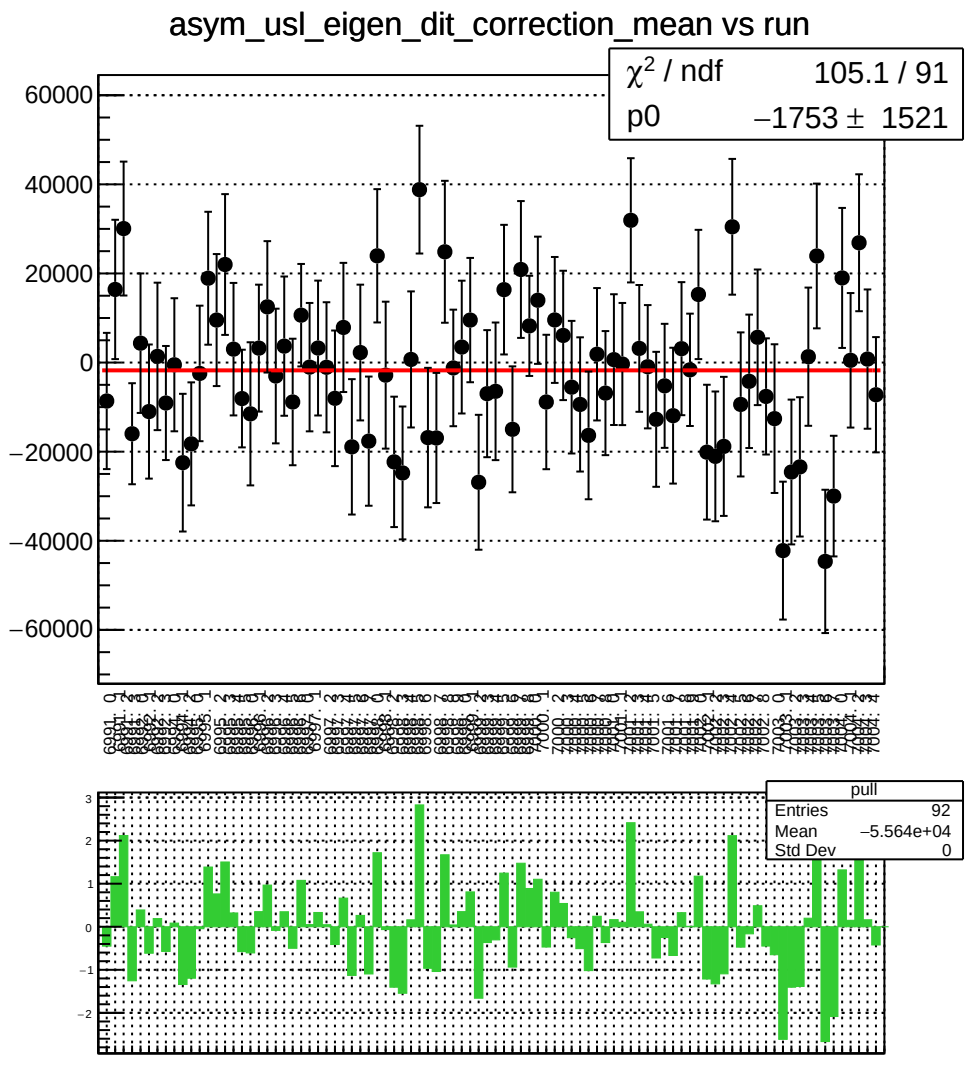

asym_usl_dit_correction_mean vs run
χ² / ndf 105.1 / 91
p0 −1753 ± 1521
pull
Entries 92
Mean −5.565e+04
Std Dev 0

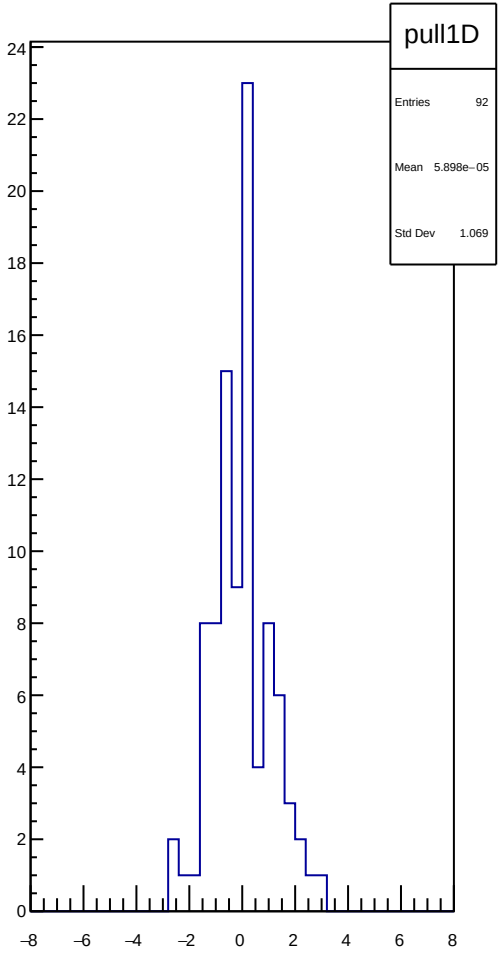

pull1D
Entries 92
Mean 5.897e−05
Std Dev 1.069

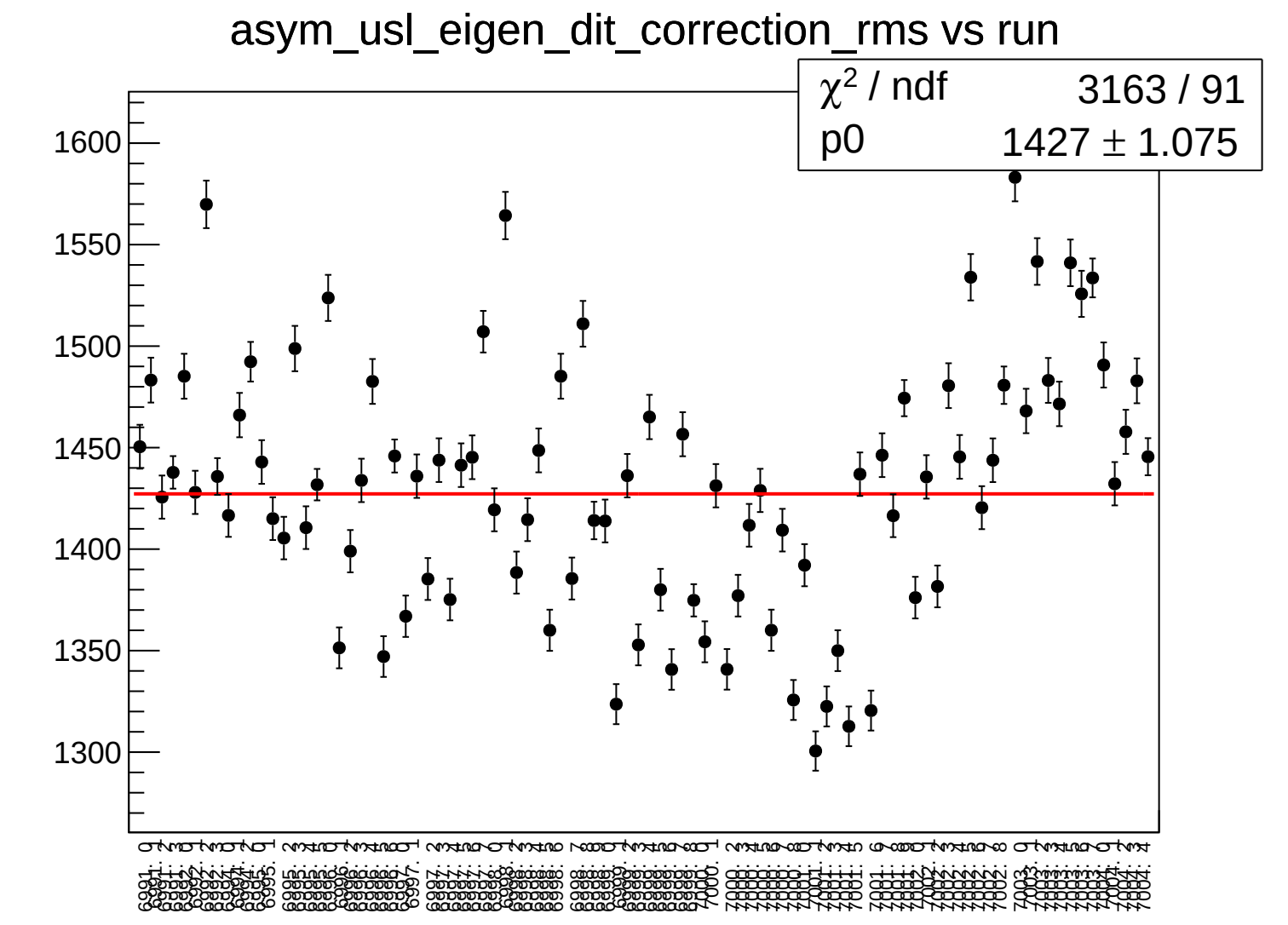

asym_usl_dit_correction_rms vs run
χ² / ndf 3163 / 91
p0 1427 ± 1.075
1600
1550
1500
1450
1400
1350
1300

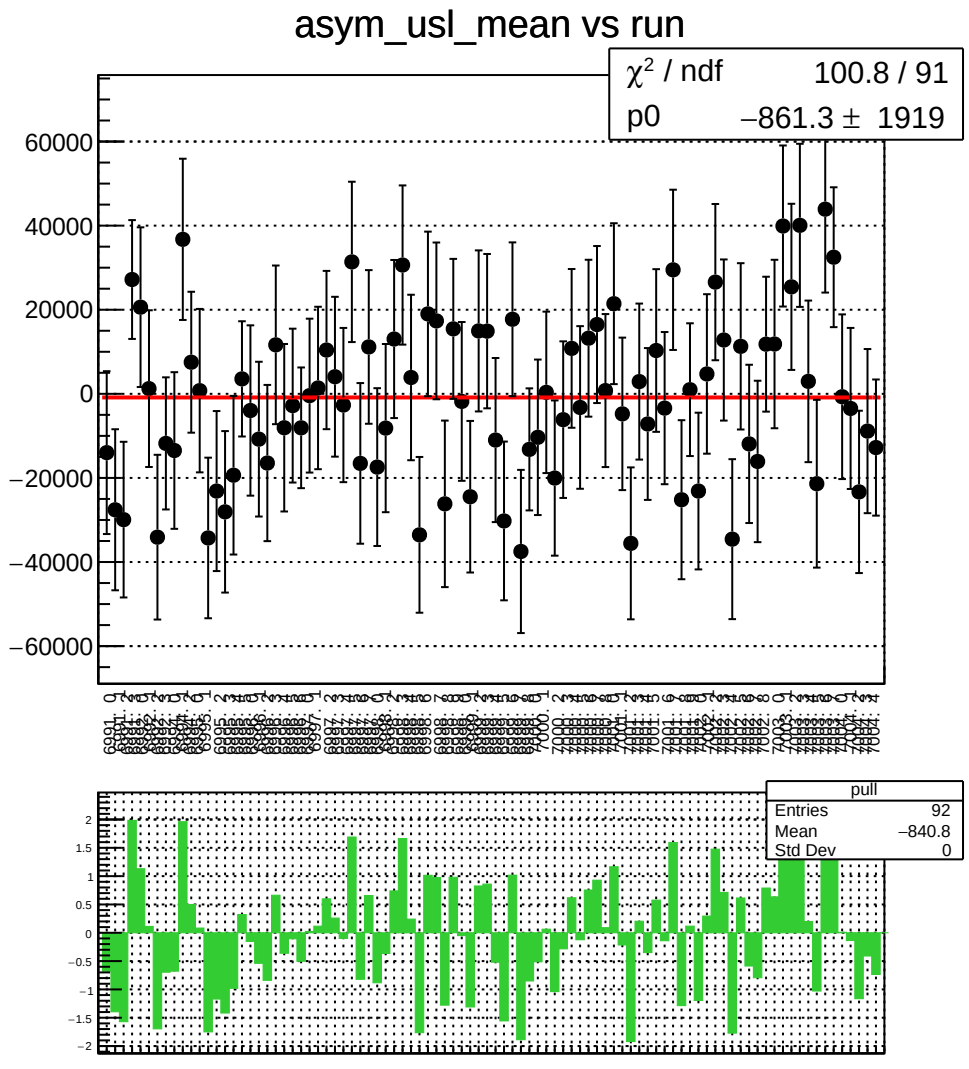

eigen_dit_asym_usl_mean vs run
χ² / ndf 76.54 / 91
p0 −2673 ± 1216
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 92
Mean −547.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.005867
Std Dev 0.9121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

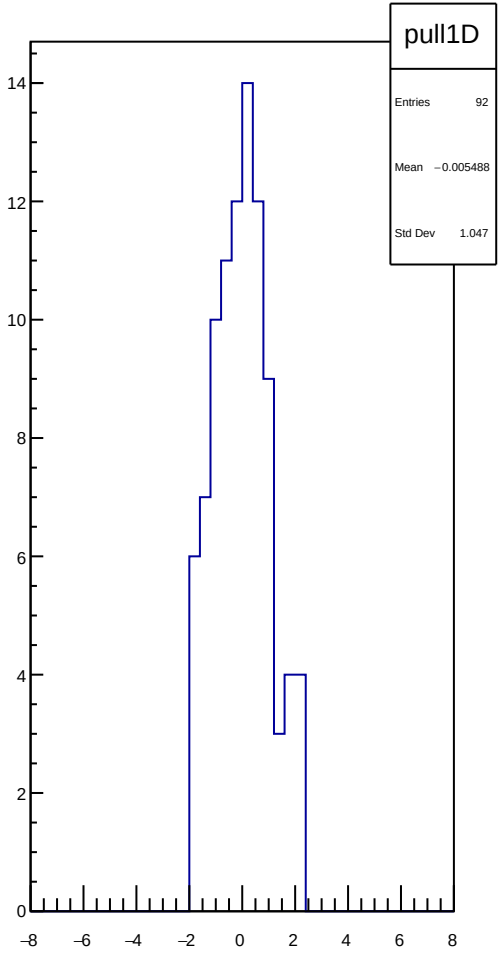

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 331.8 / 91
p0 1142 ± 0.8597
1240
1220
1200
1180
1160
1140
1120
1100

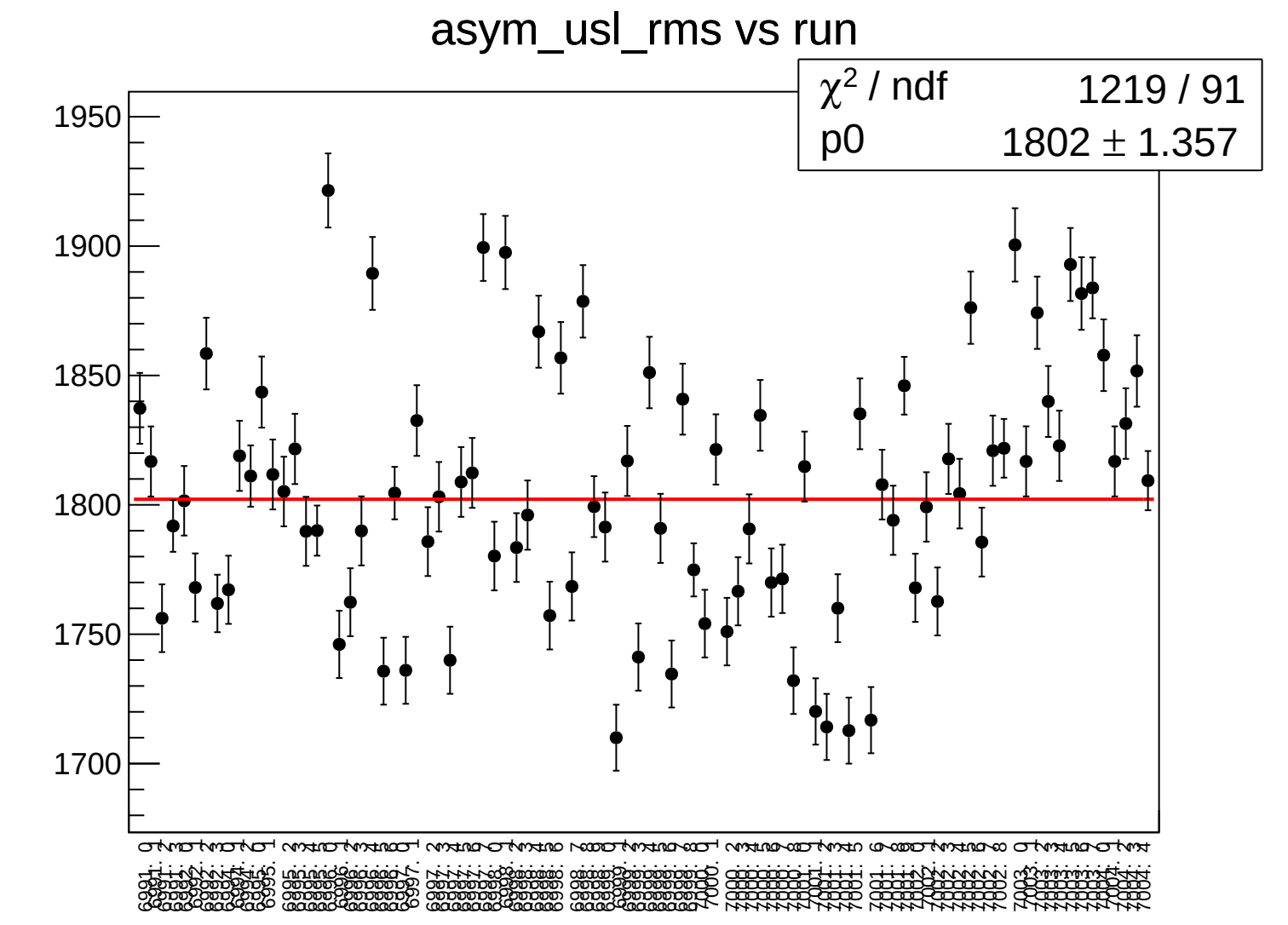

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 105.1 / 91
p0 −1753 ± 1521
pull
Entries 92
Mean −5.564e+04
Std Dev 0

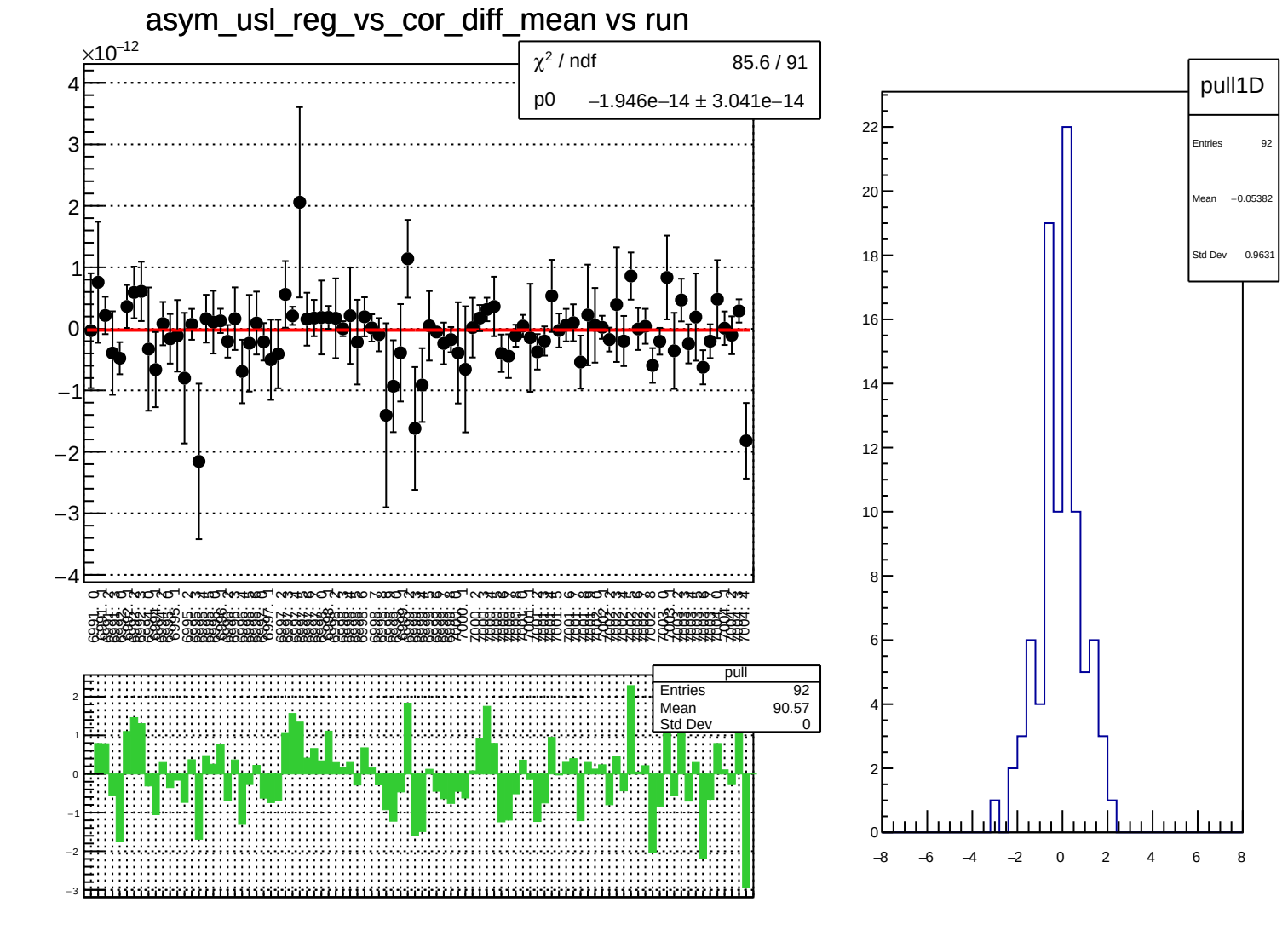

pull1D
Entries 92
Mean 5.898e−05
Std Dev 1.069

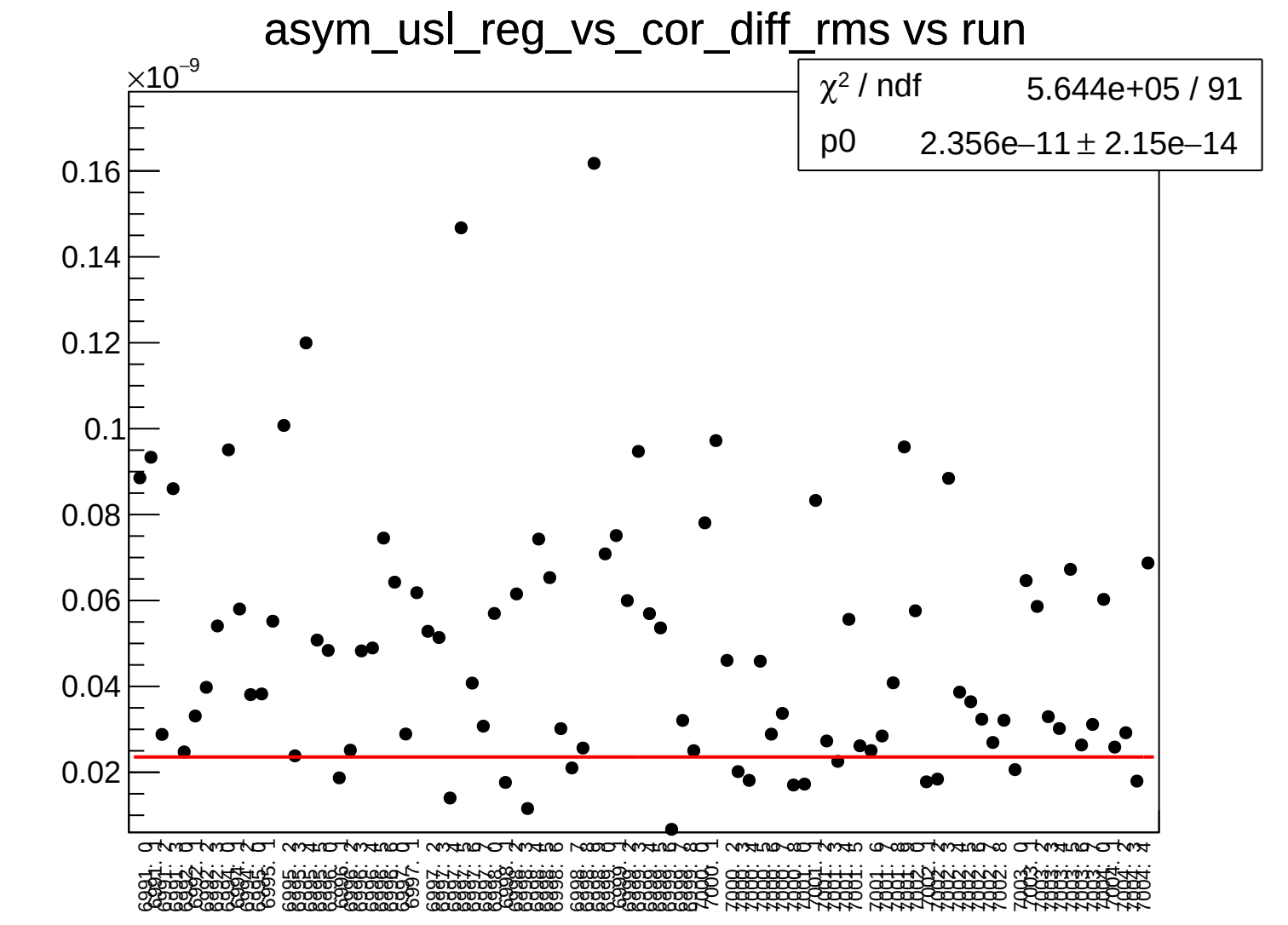

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 3163 / 91
p0 1427 ± 1.075
1600
1550
1500
1450
1400
1350
1300

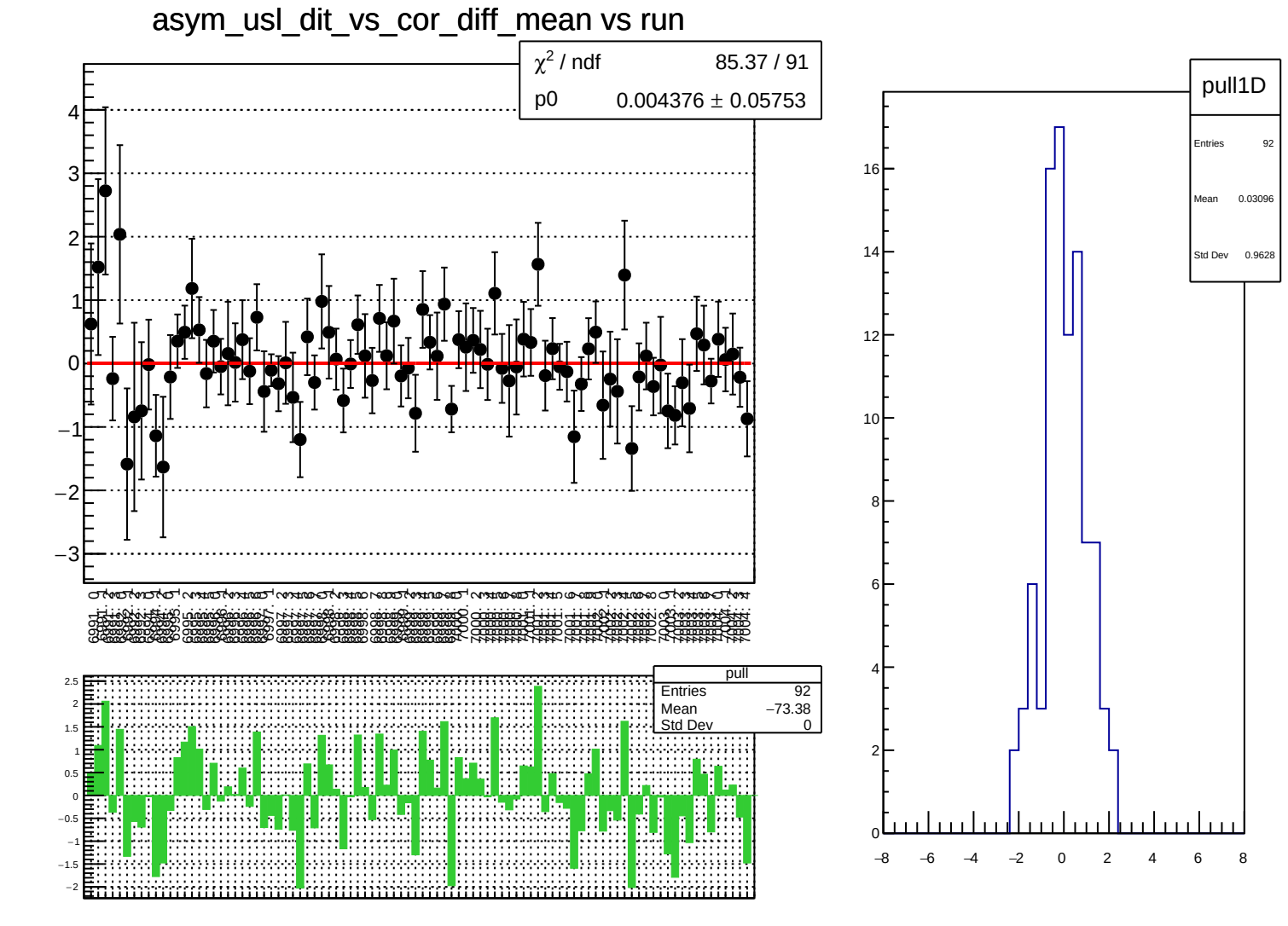

asym_usl_mean vs run
χ² / ndf 100.8 / 91
p0 −861.3 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −840.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

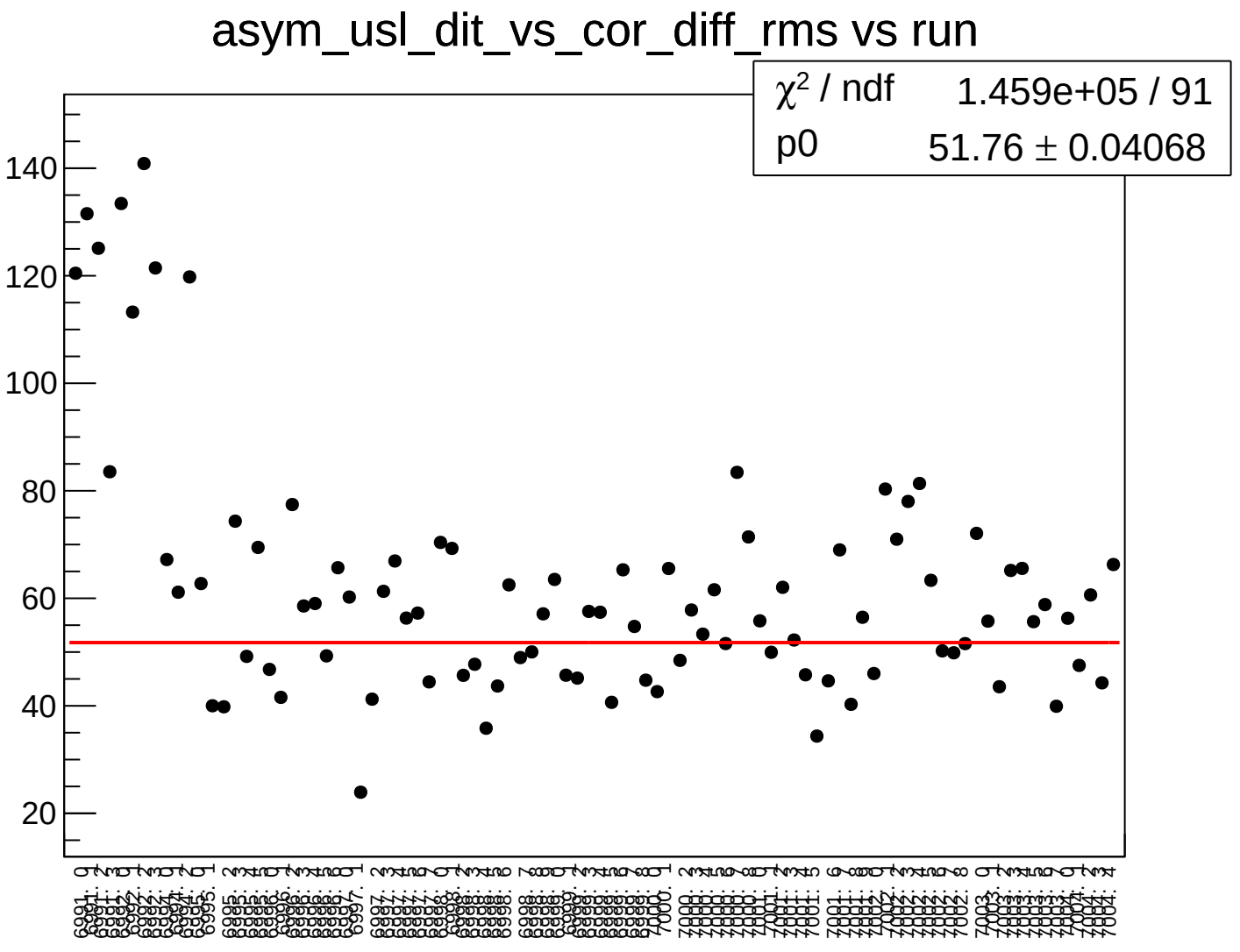

pull1D
Entries 92
Mean −0.005488
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

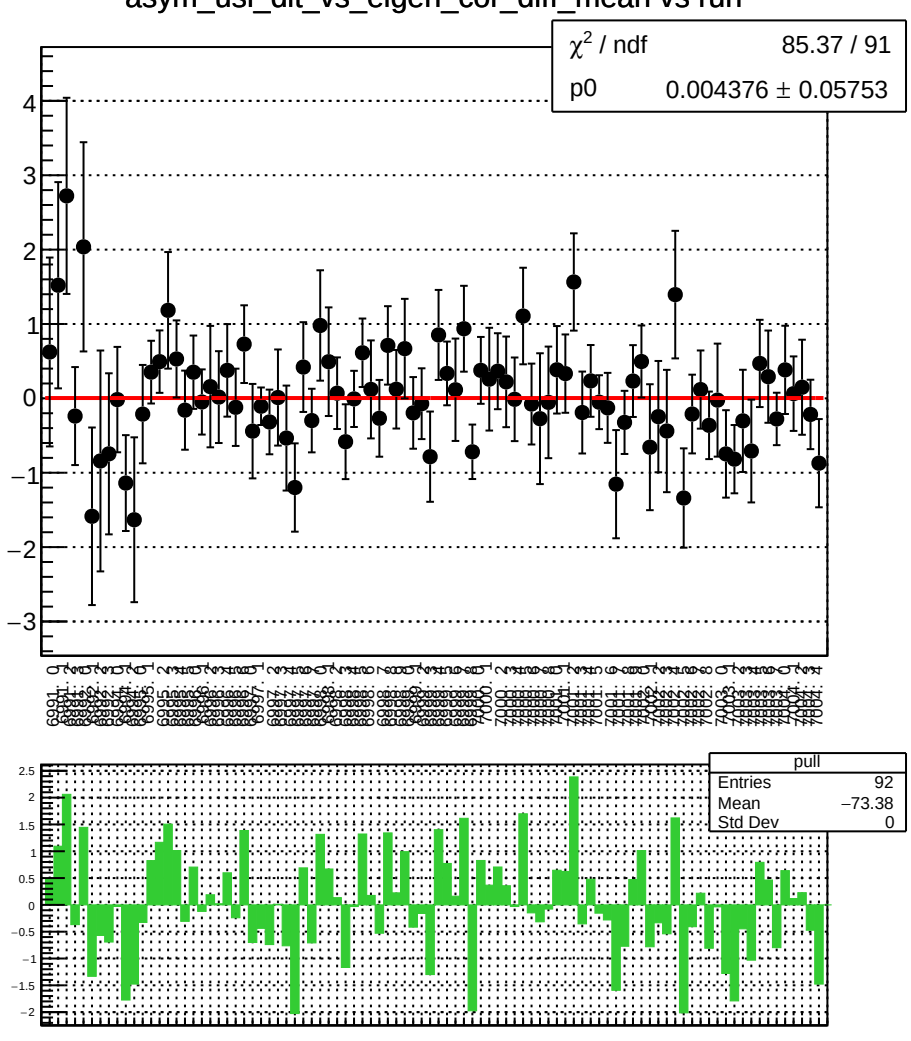

asym_usl_rms vs run
χ² / ndf 1219 / 91
p0 1802 ± 1.357
1950
1900
1850
1800
1750
1700

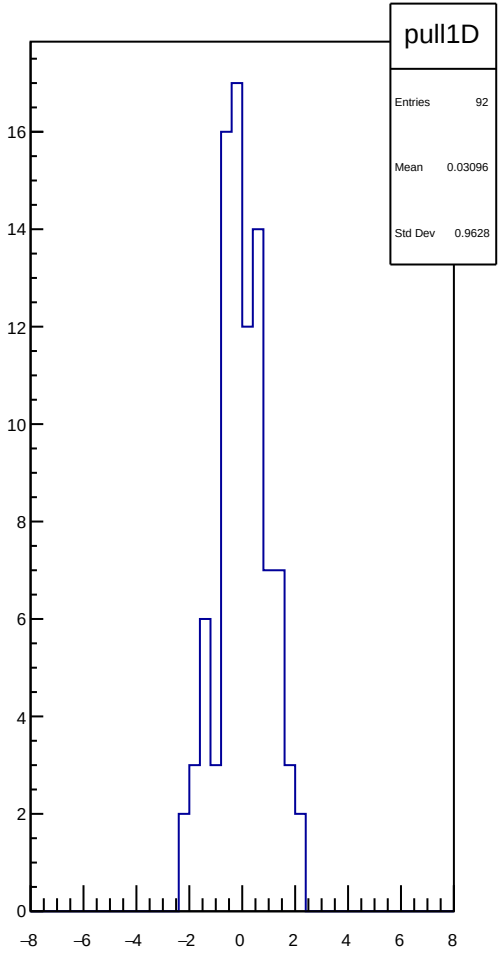

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.6 / 91
p0 −1.946e−14 ± 3.041e−14
pull
Entries 92
Mean 90.57
Std Dev 0
pull1D
Entries 92
Mean −0.05382
Std Dev 0.9631

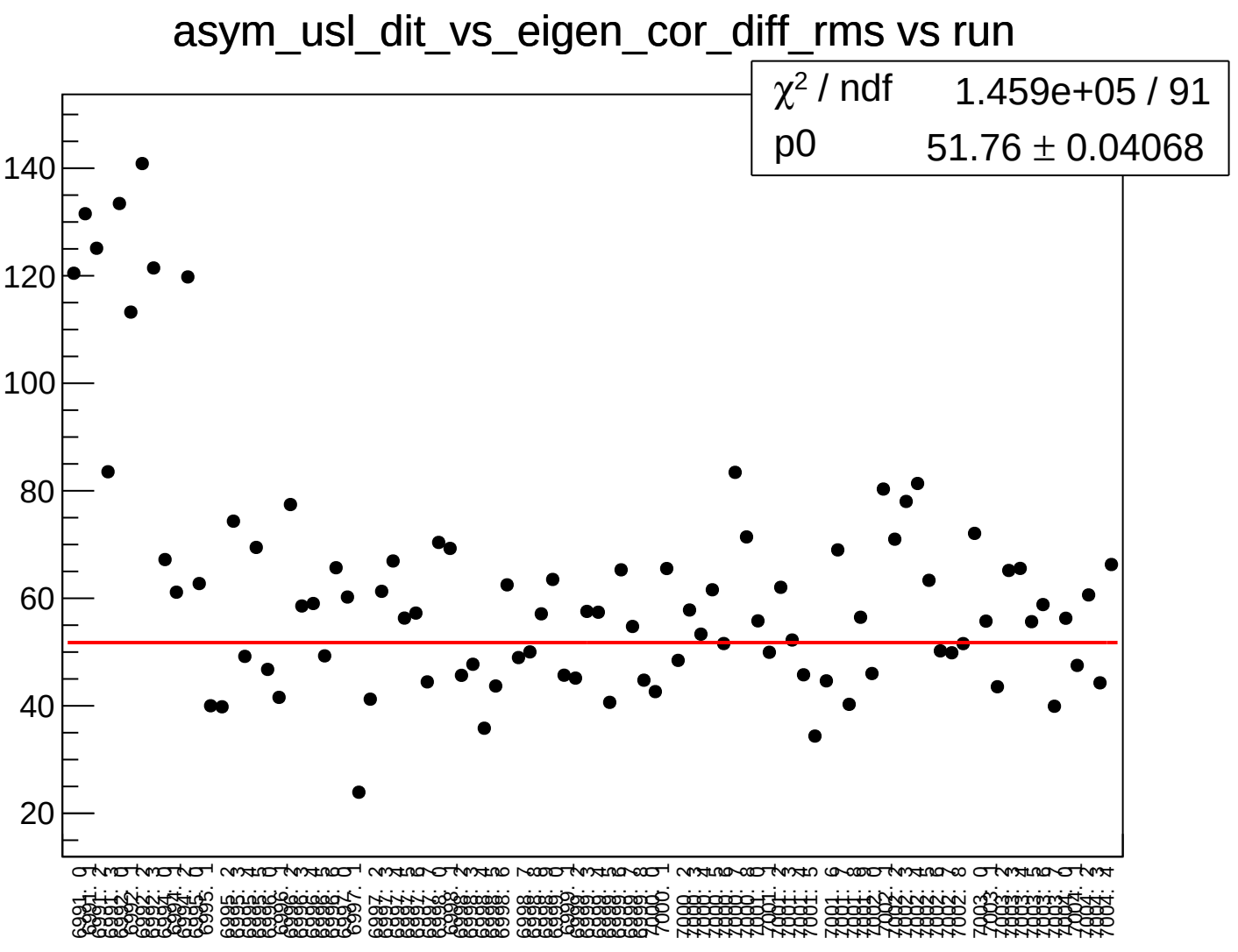

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.644e+05 / 91
p0 2.356e−11 ± 2.15e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

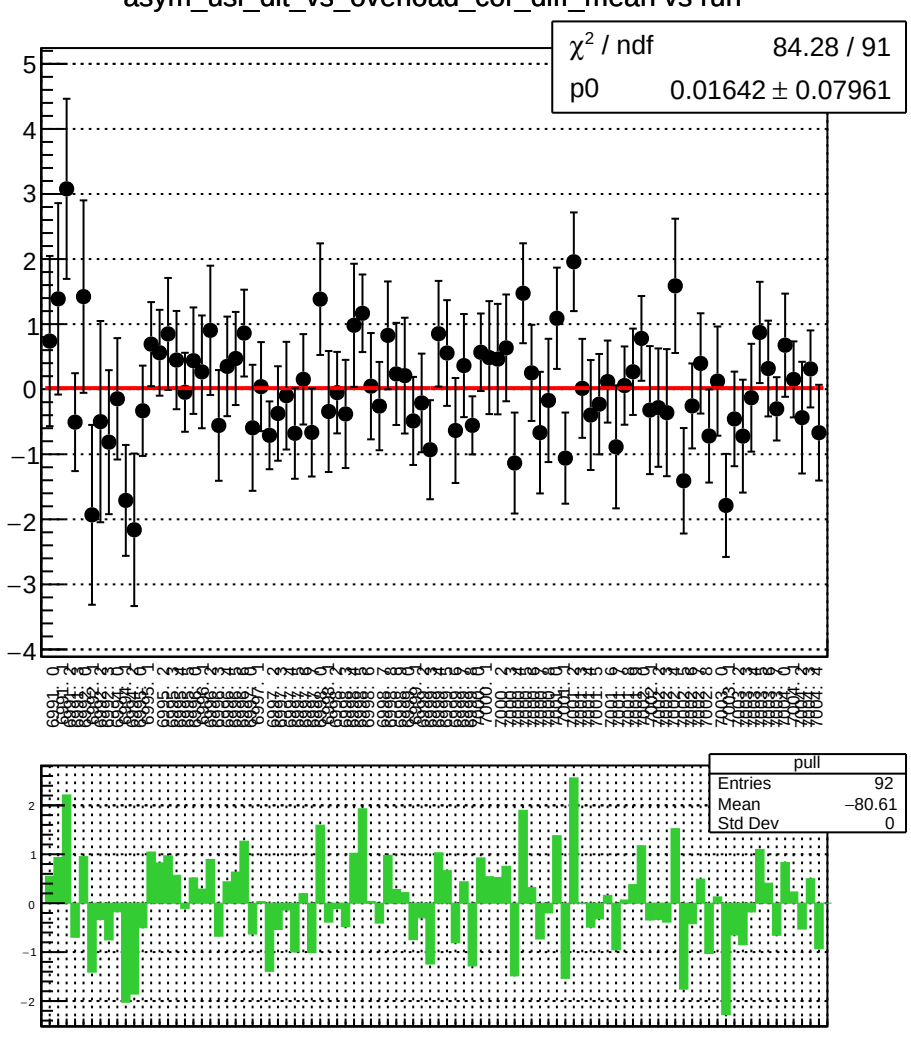

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 85.37 / 91
p0 0.004376 ± 0.05753
pull
Entries 92
Mean −73.38
Std Dev 0
pull1D
Entries 92
Mean 0.03096
Std Dev 0.9628

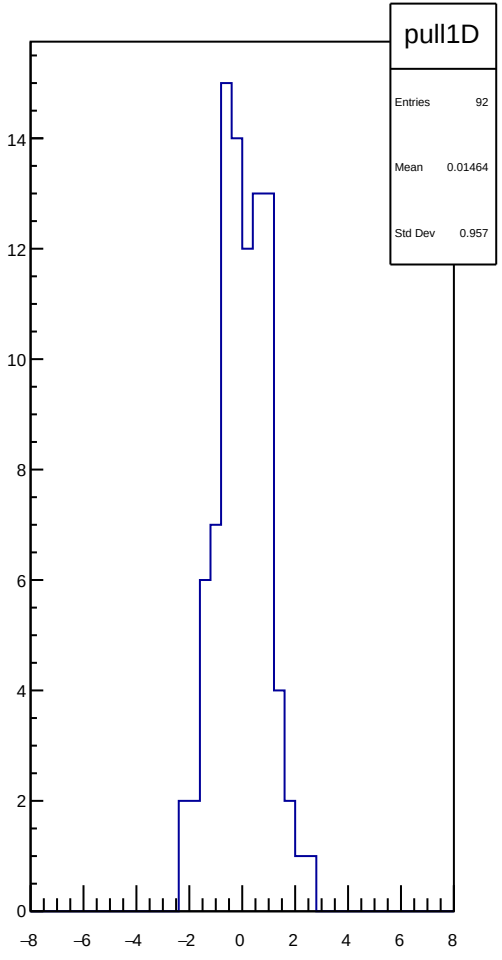

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.459e+05 / 91
p0 51.76 ± 0.04068
140
120
100
80
60
40
20

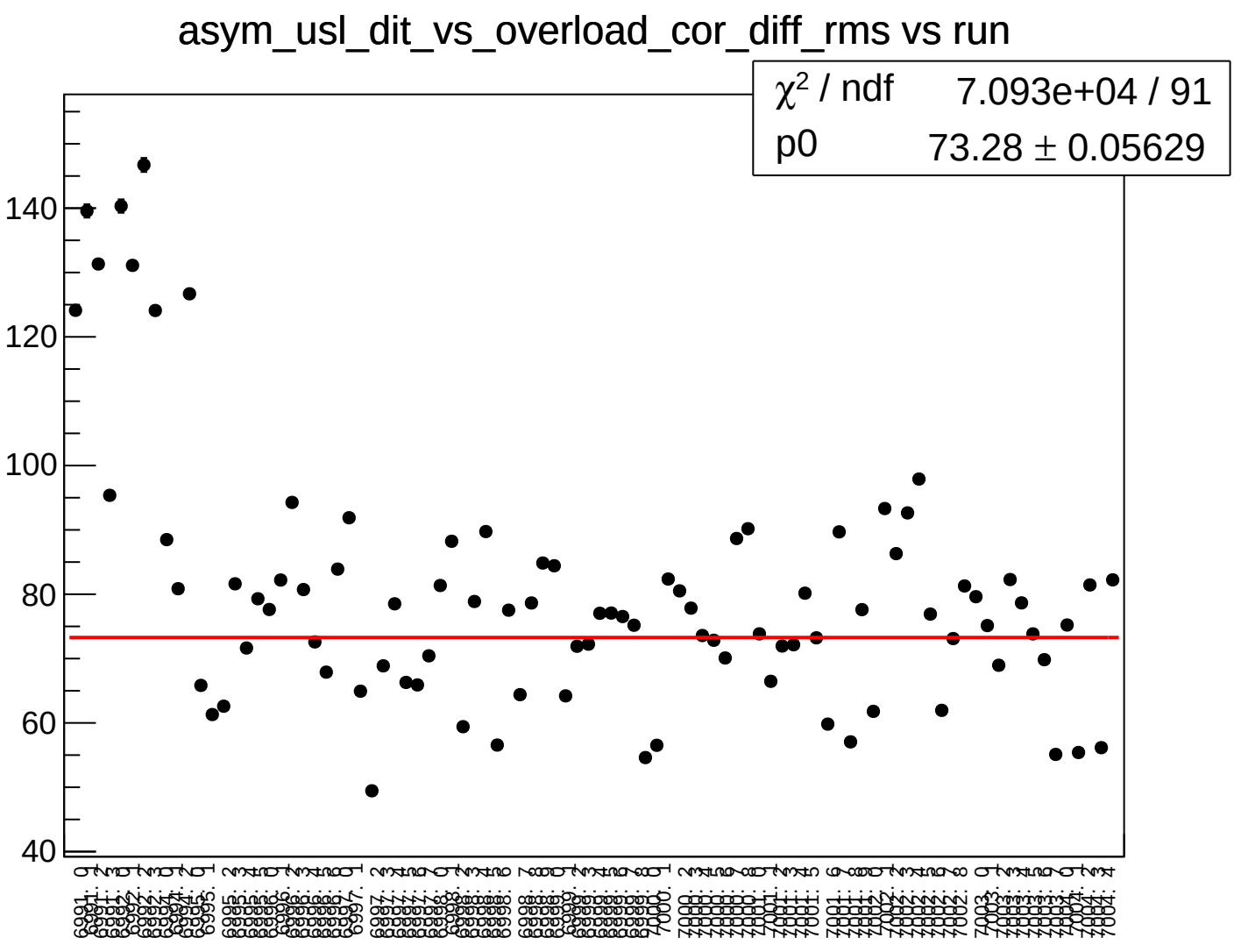

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.37 / 91
p0 0.004376 ± 0.05753
pull
Entries 92
Mean −73.38
Std Dev 0

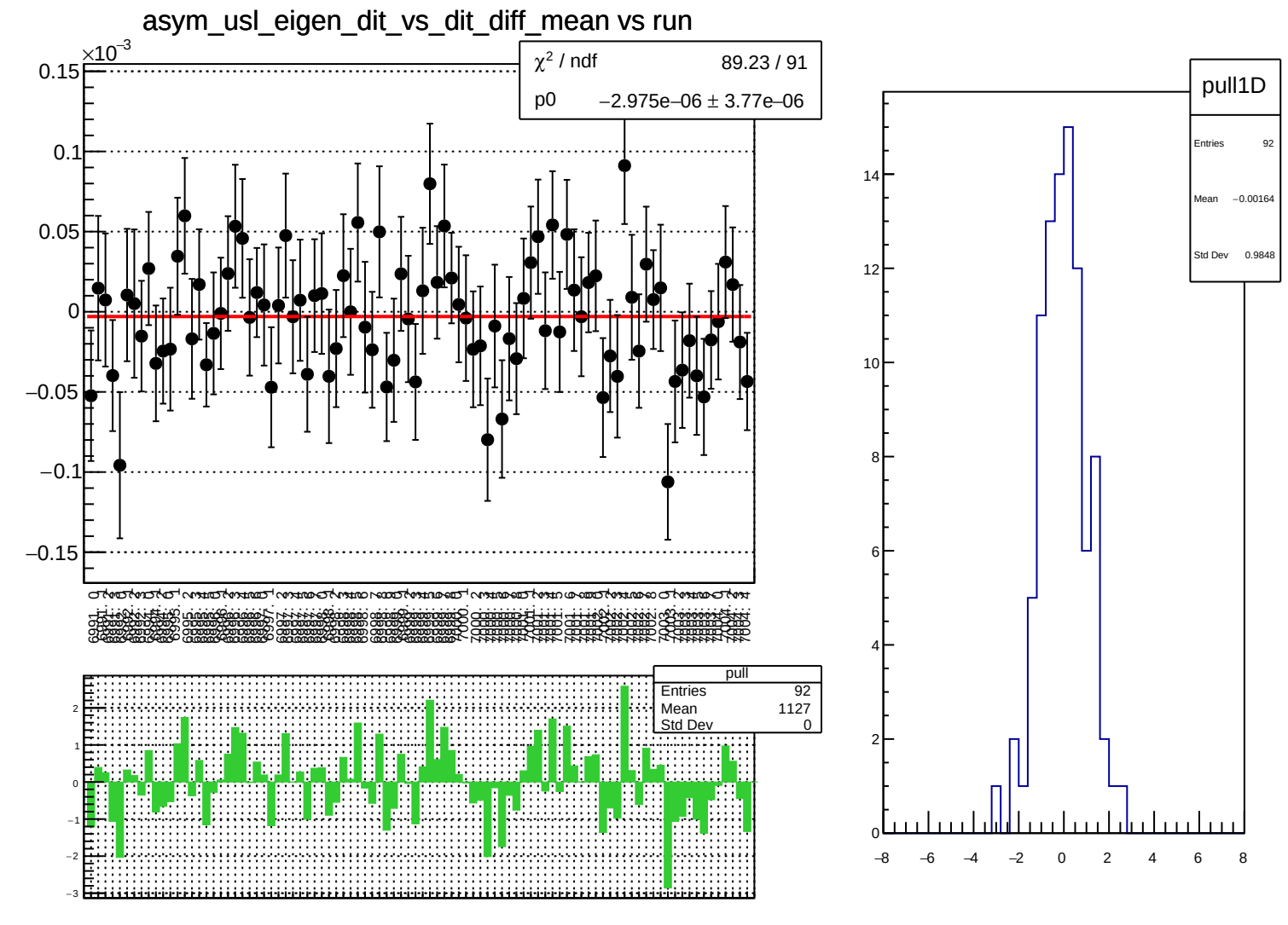

pull1D
Entries 92
Mean 0.03096
Std Dev 0.9628

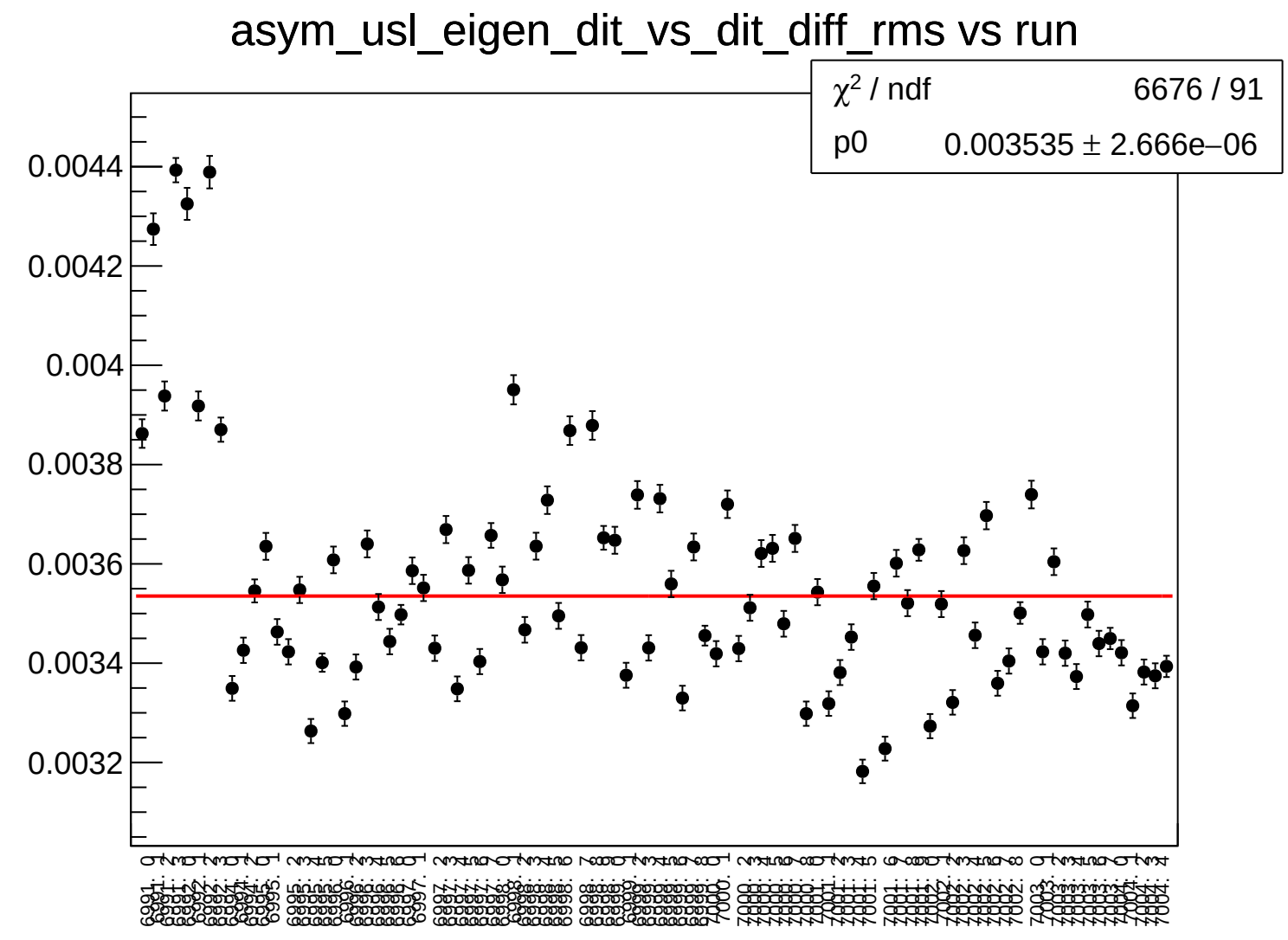

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.459e+05 / 91
p0 51.76 ± 0.04068
140
120
100
80
60
40
20

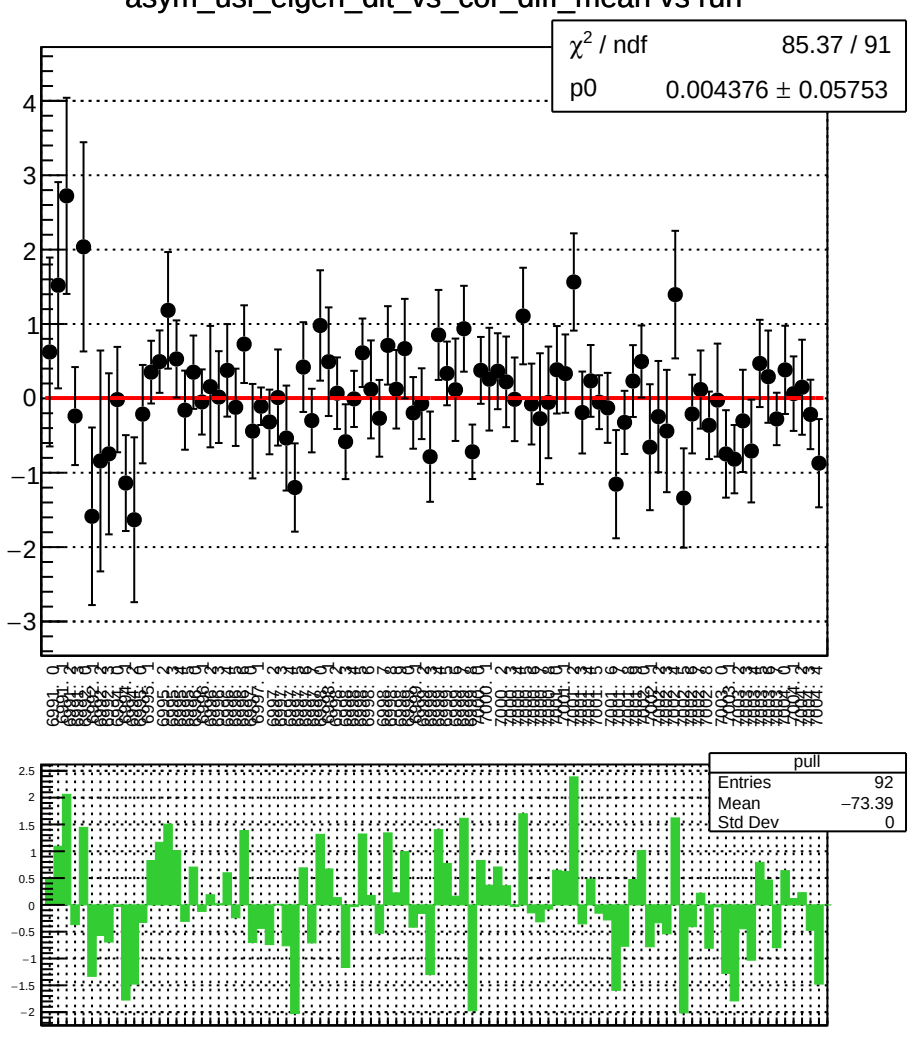

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.28 / 91
p0 0.01642 ± 0.07961
pull
Entries 92
Mean −80.61
Std Dev 0

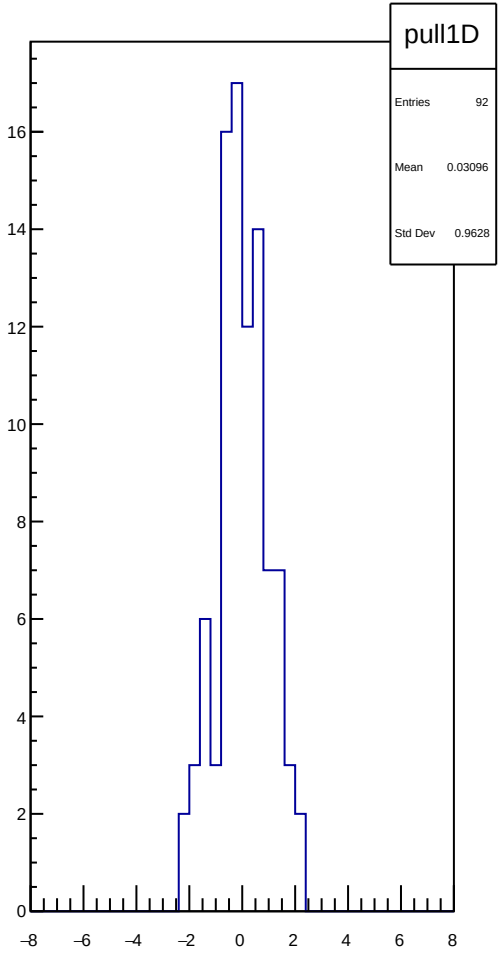

pull1D
Entries 92
Mean 0.01464
Std Dev 0.957

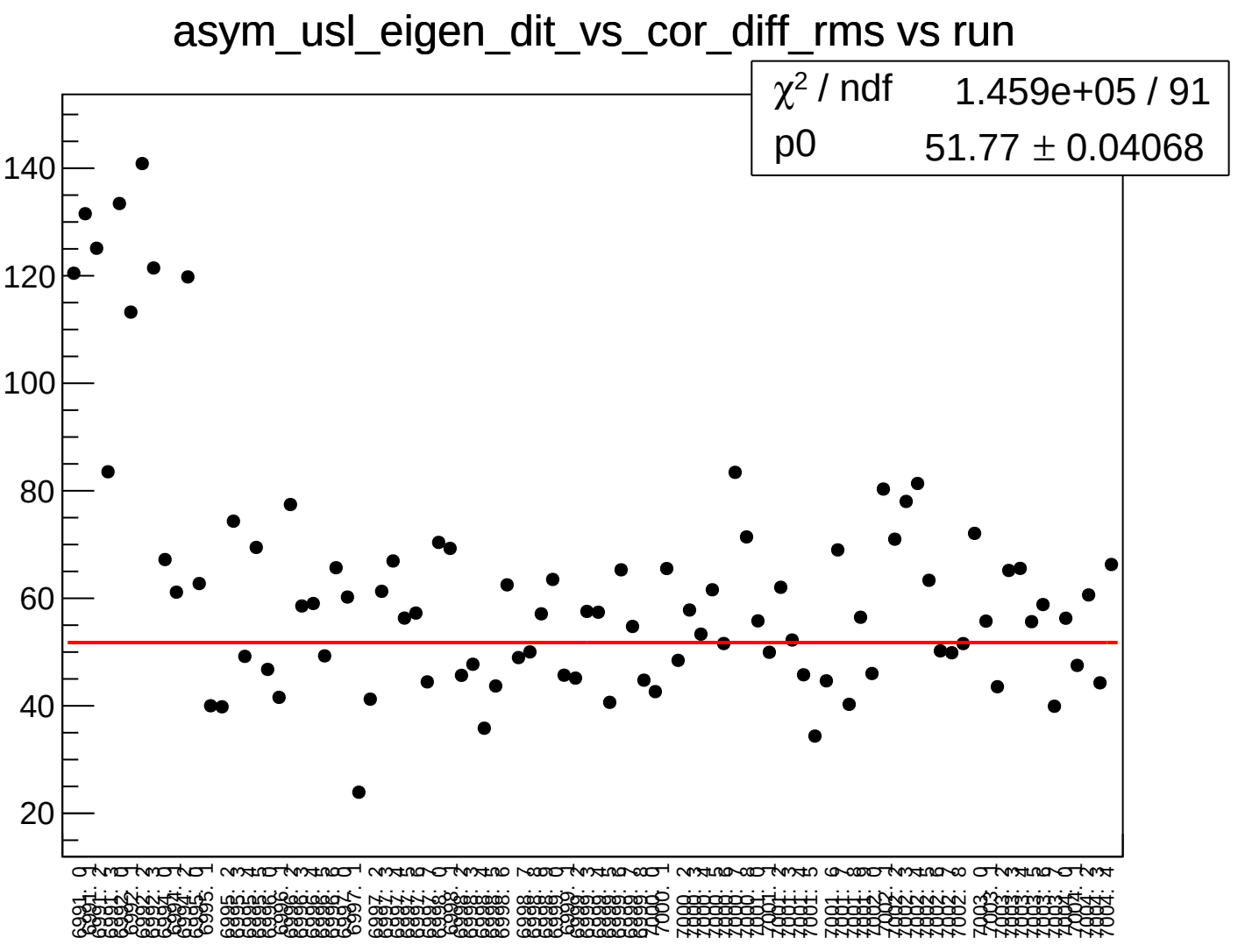

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.093e+04 / 91
p0 73.28 ± 0.05629
140
120
100
80
60
40

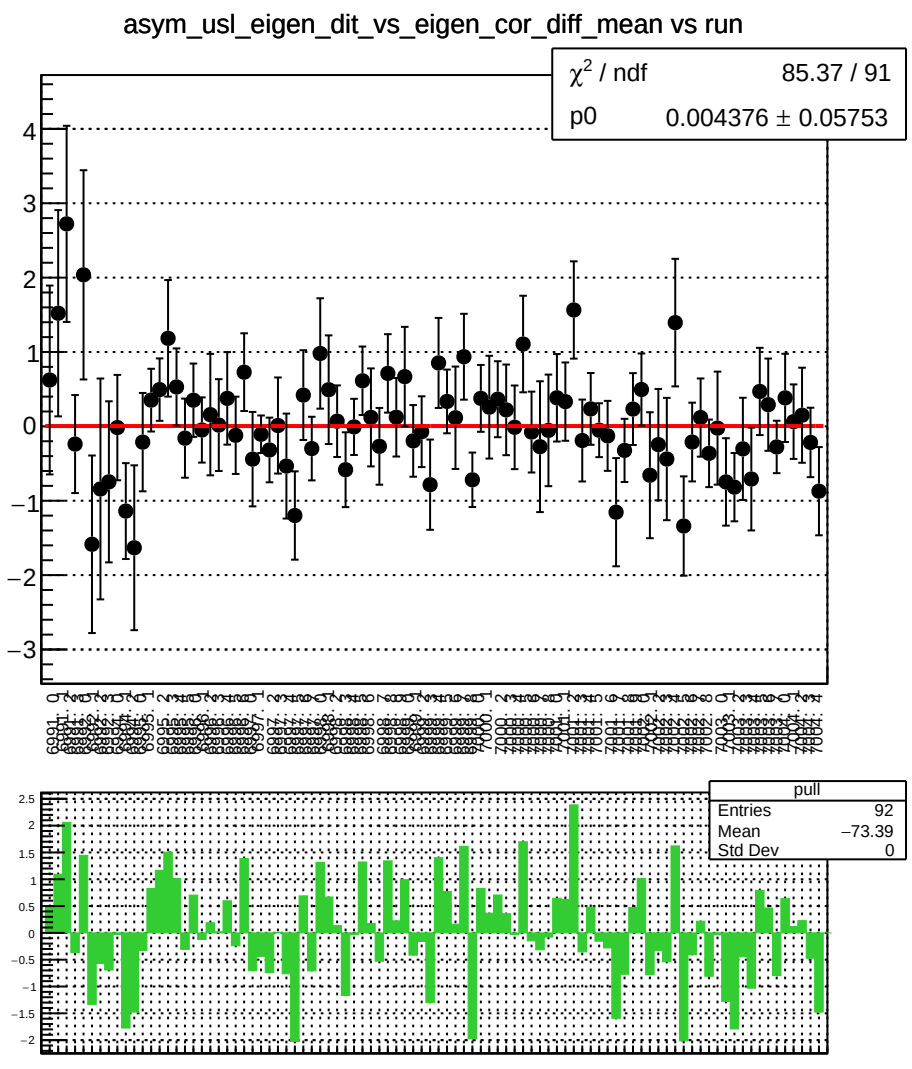

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.23 / 91
p0 −2.975e−06 ± 3.77e−06
pull
Entries 92
Mean 1127
Std Dev 0
pull1D
Entries 92
Mean −0.00164
Std Dev 0.9848

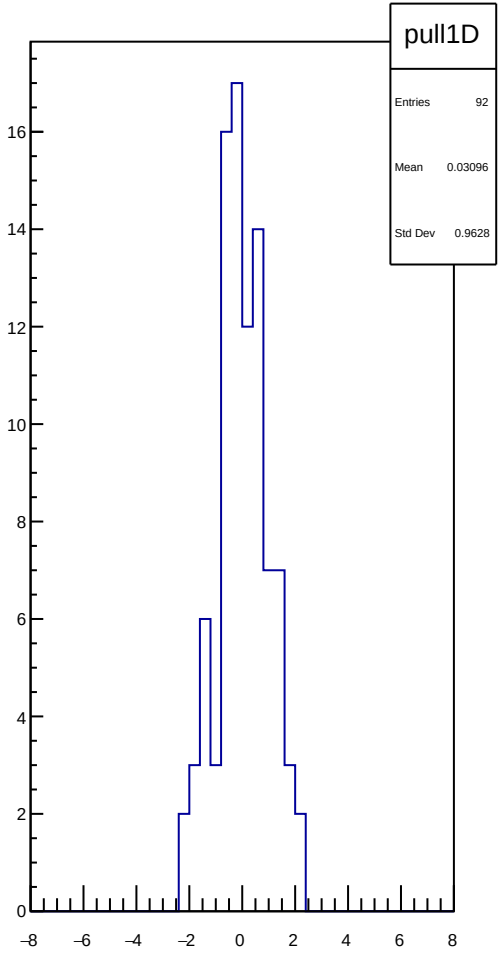

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6676 / 91
p0 0.003535 ± 2.666e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

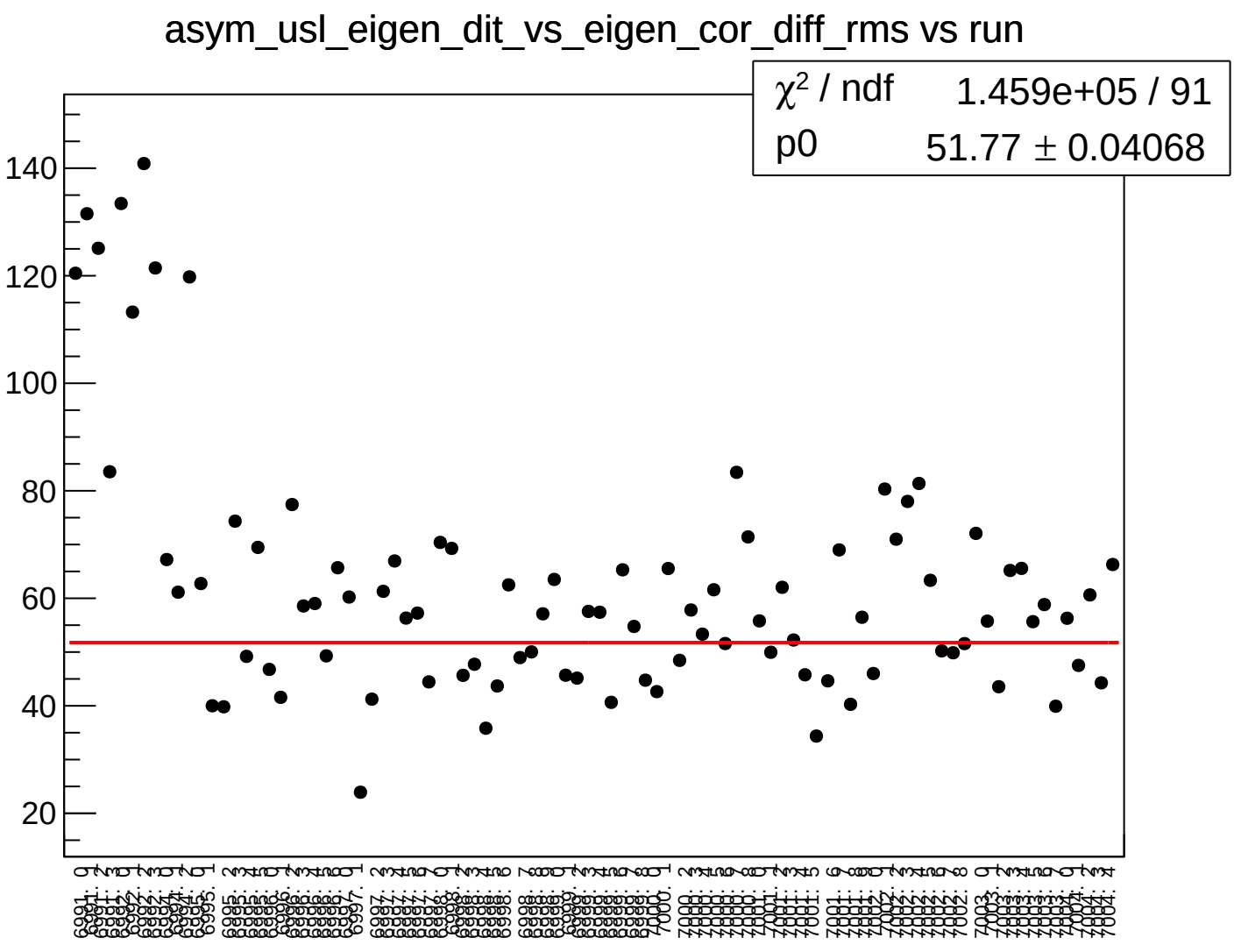

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.37 / 91
p0 0.004376 ± 0.05753
pull
Entries 92
Mean −73.39
Std Dev 0

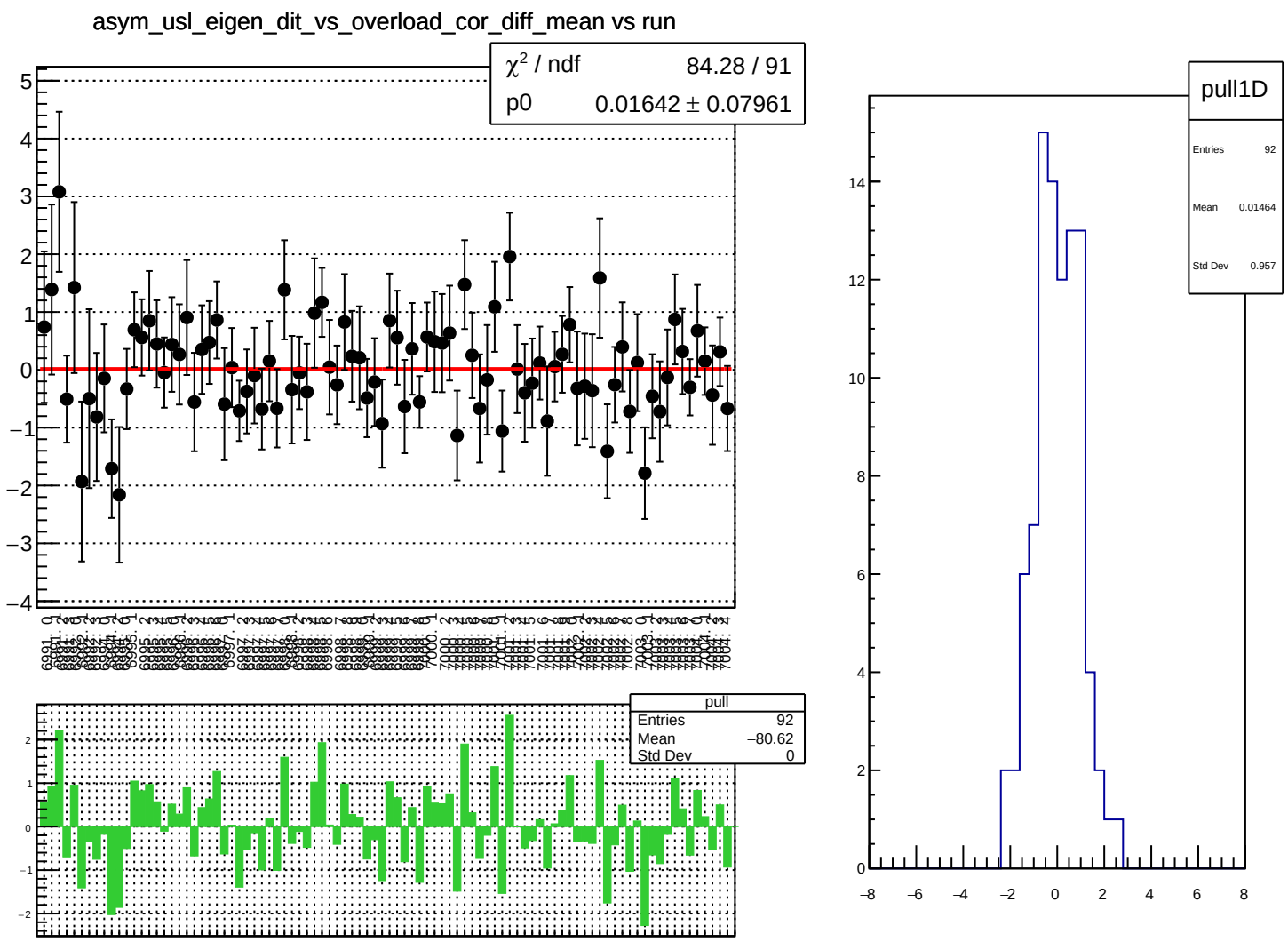

pull1D
Entries 92
Mean 0.03096
Std Dev 0.9628

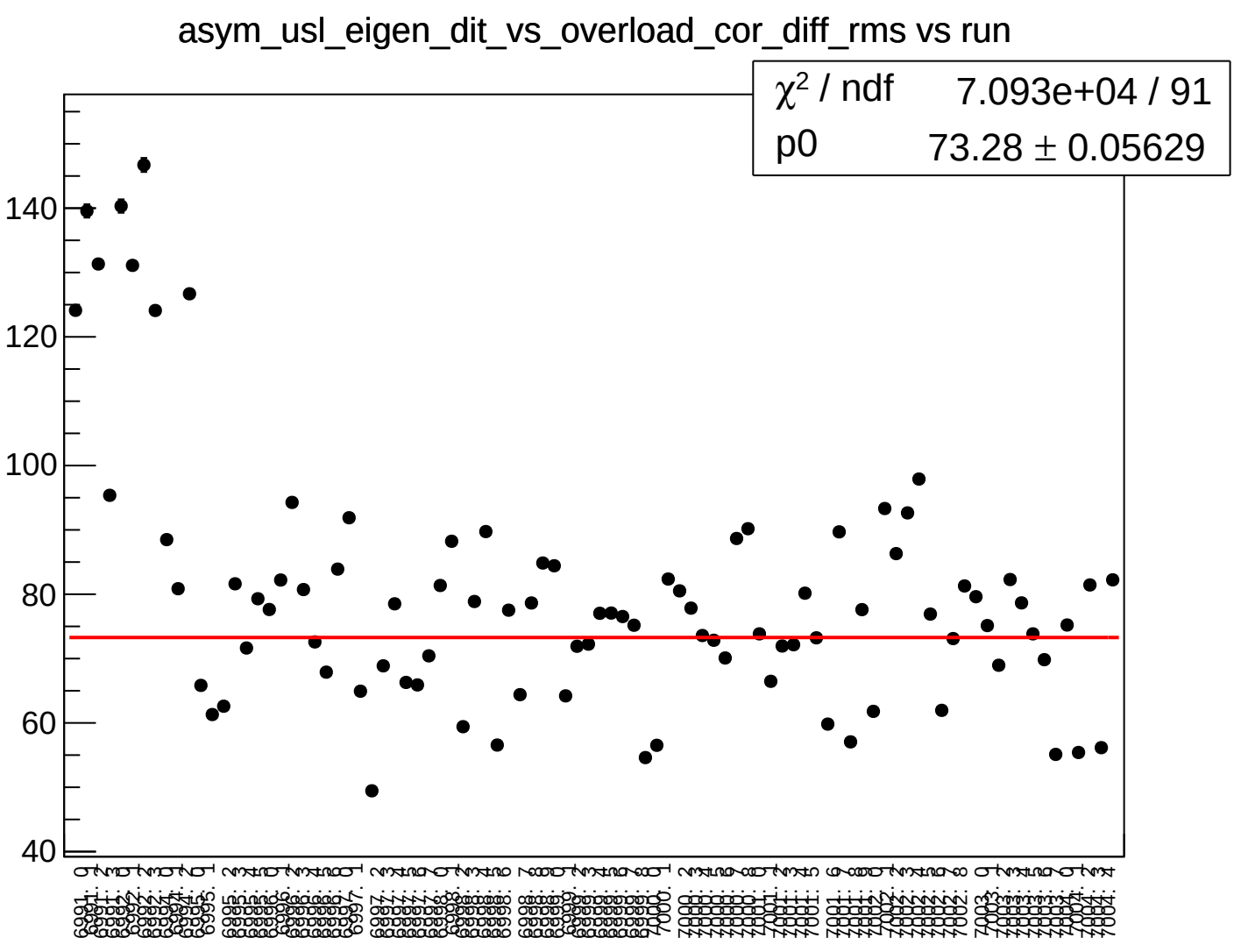

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.459e+05 / 91
p0 51.77 ± 0.04068
140
120
100
80
60
40
20

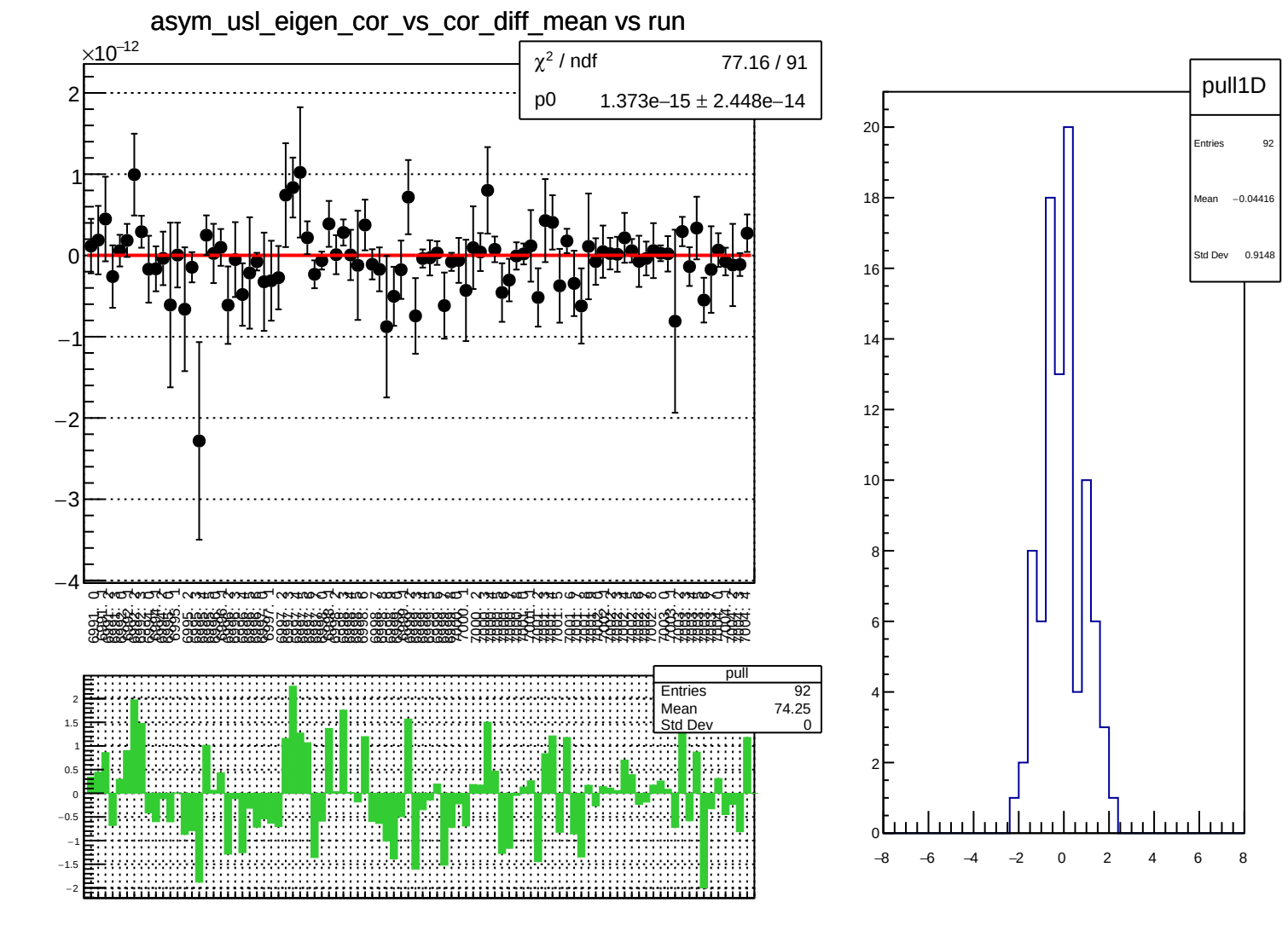

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.37 / 91
p0 0.004376 ± 0.05753
pull
Entries 92
Mean −73.39
Std Dev 0

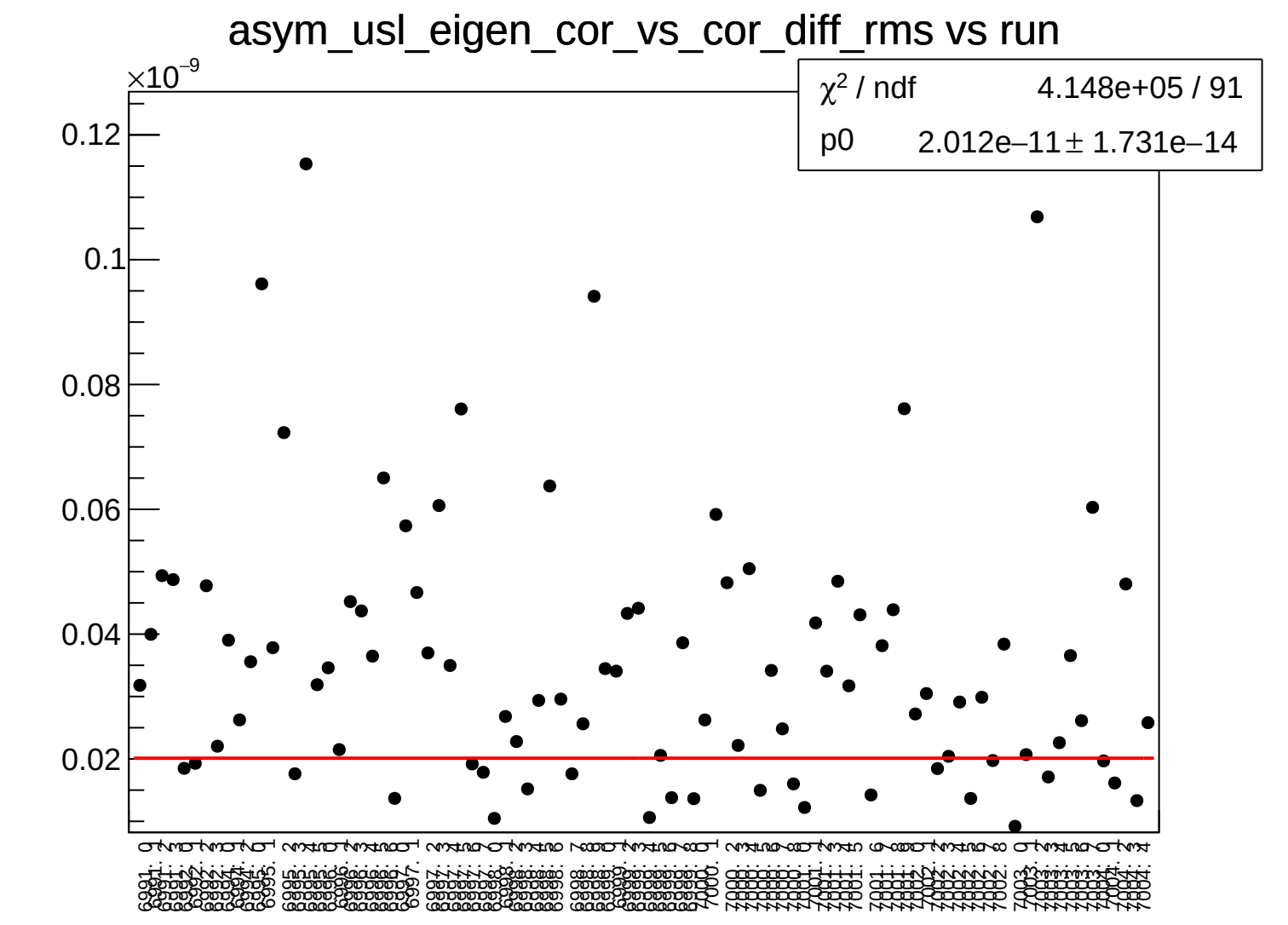

pull1D
Entries 92
Mean 0.03096
Std Dev 0.9628

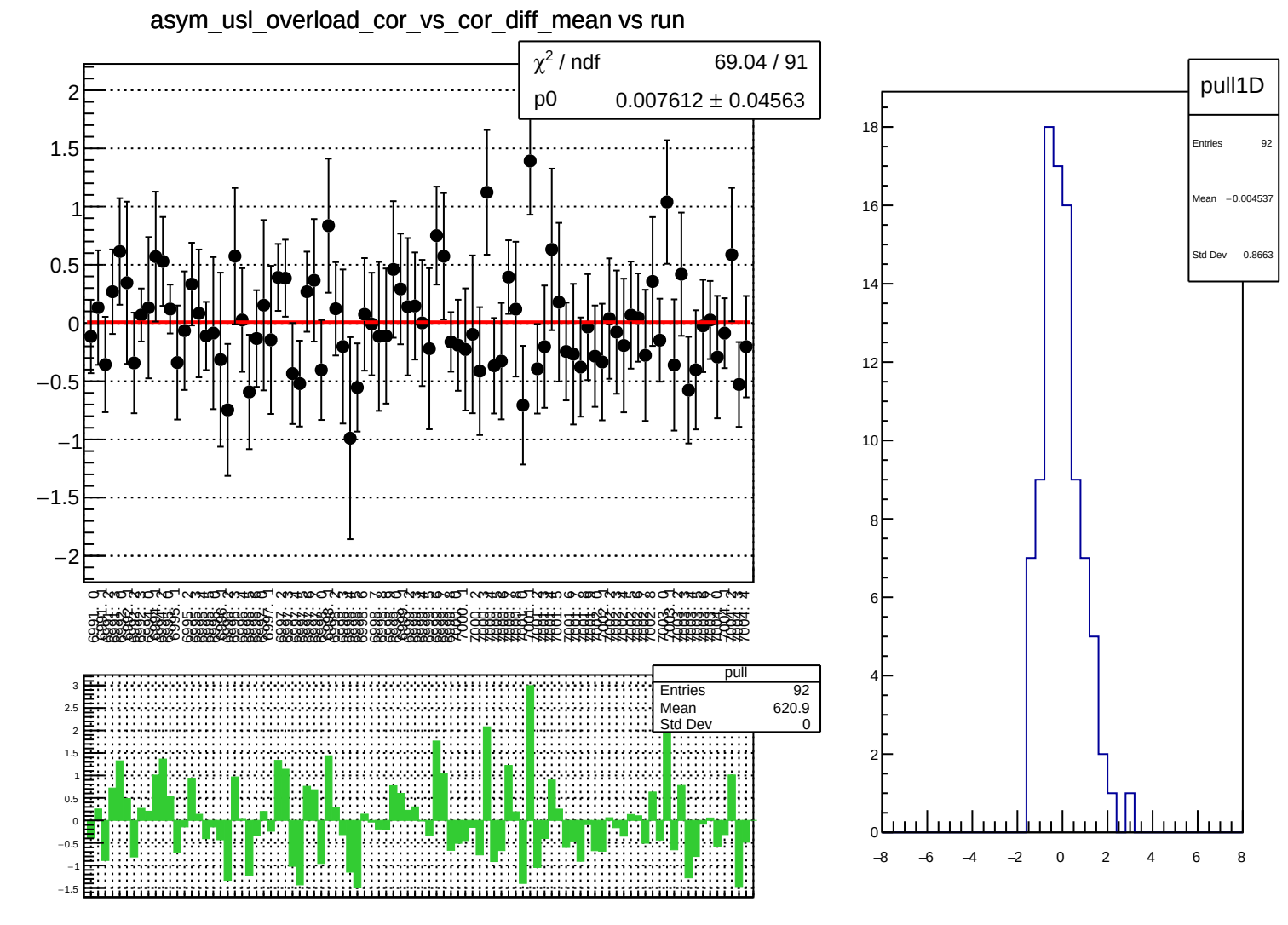

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.459e+05 / 91
p0 51.77 ± 0.04068
140
120
100
80
60
40
20

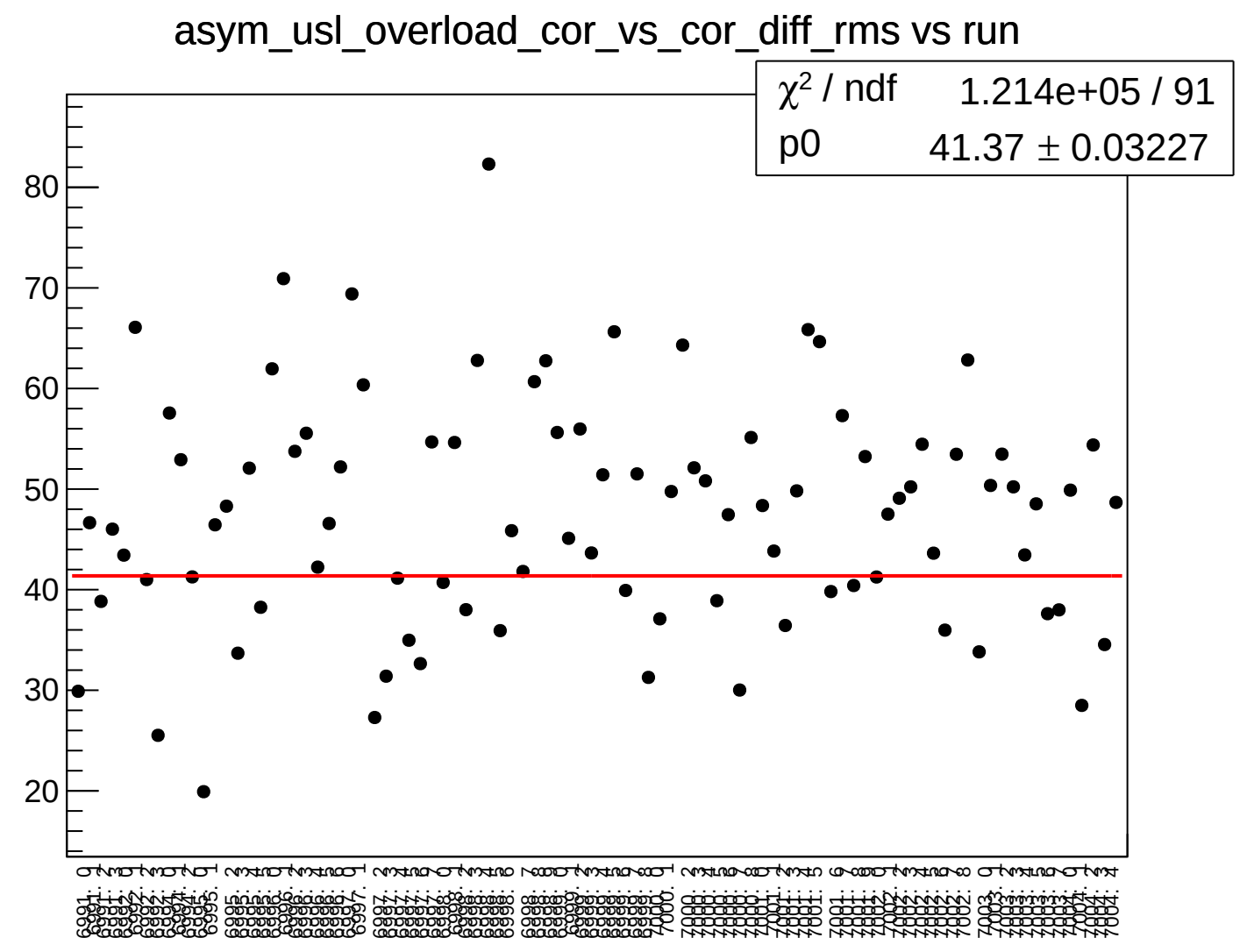

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.28 / 91
p0 0.01642 ± 0.07961
pull
Entries 92
Mean −80.62
Std Dev 0
pull1D
Entries 92
Mean 0.01464
Std Dev 0.957

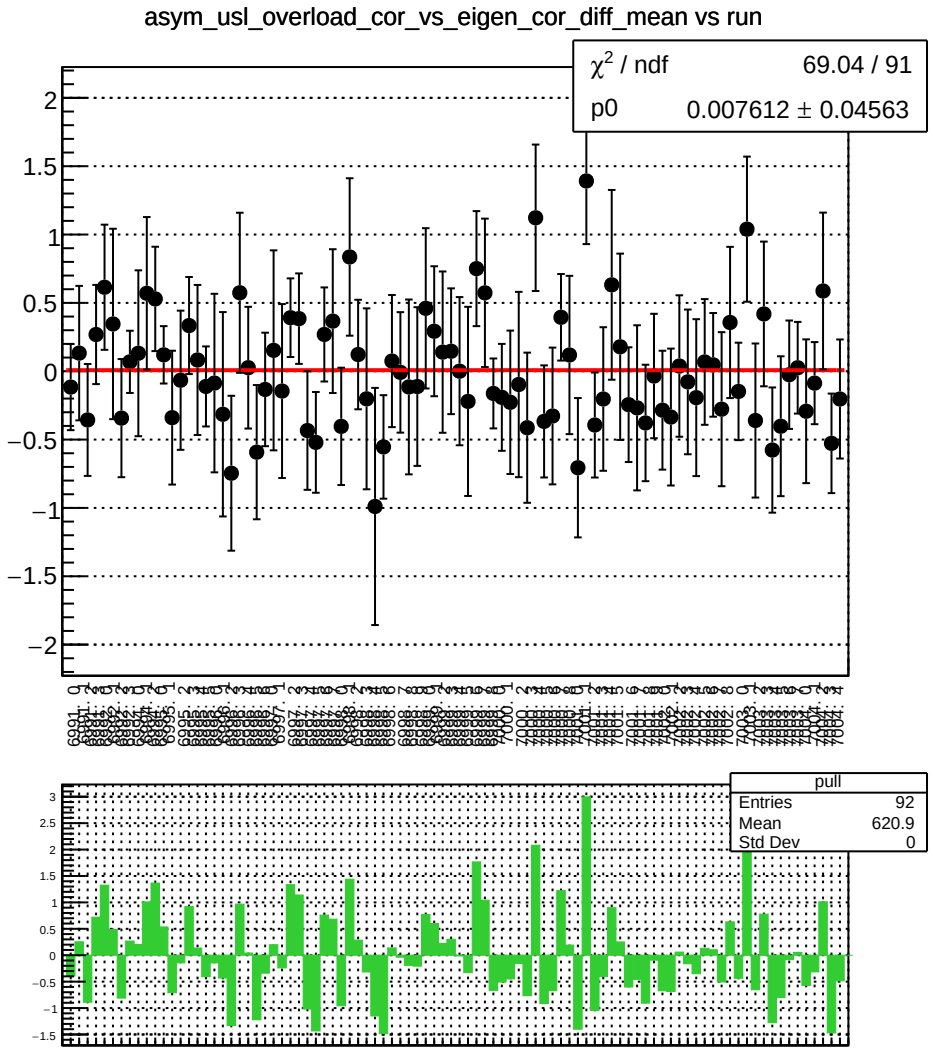

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.093e+04 / 91
p0 73.28 ± 0.05629
140
120
100
80
60
40

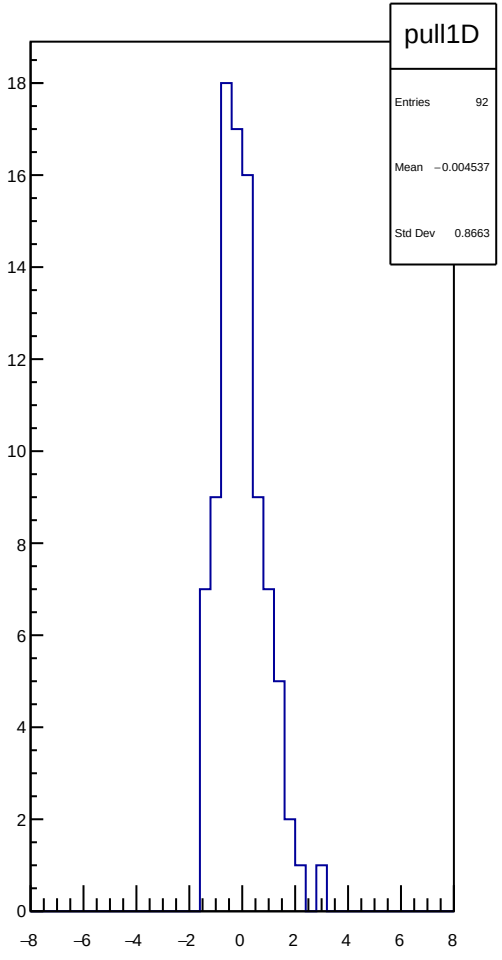

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.16 / 91
p0 1.373e−15 ± 2.448e−14
pull
Entries 92
Mean 74.25
Std Dev 0
pull1D
Entries 92
Mean −0.04416
Std Dev 0.9148

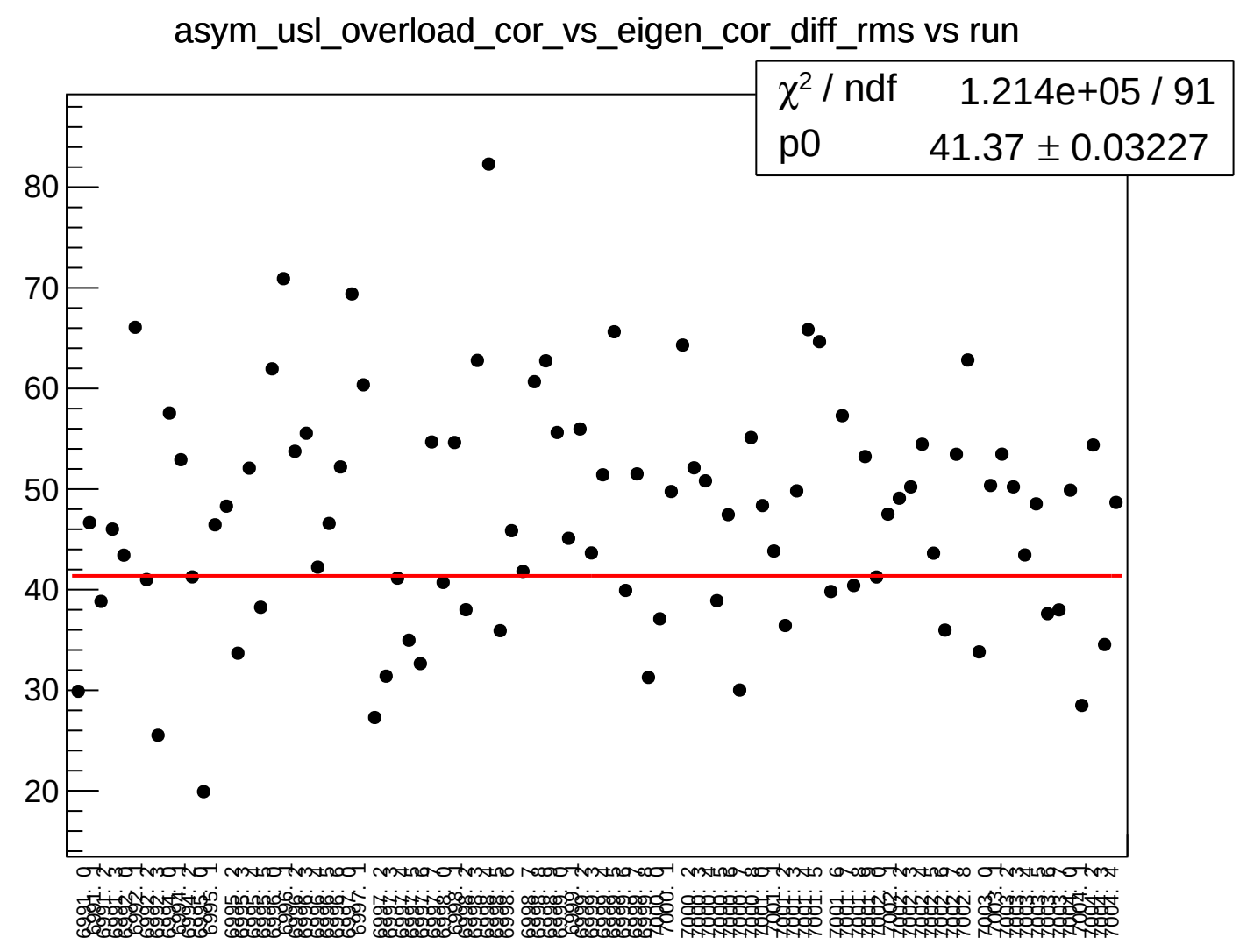

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.148e+05 / 91
p0 2.012e−11 ± 1.731e−14
0.12
0.1
0.08
0.06
0.04
0.02

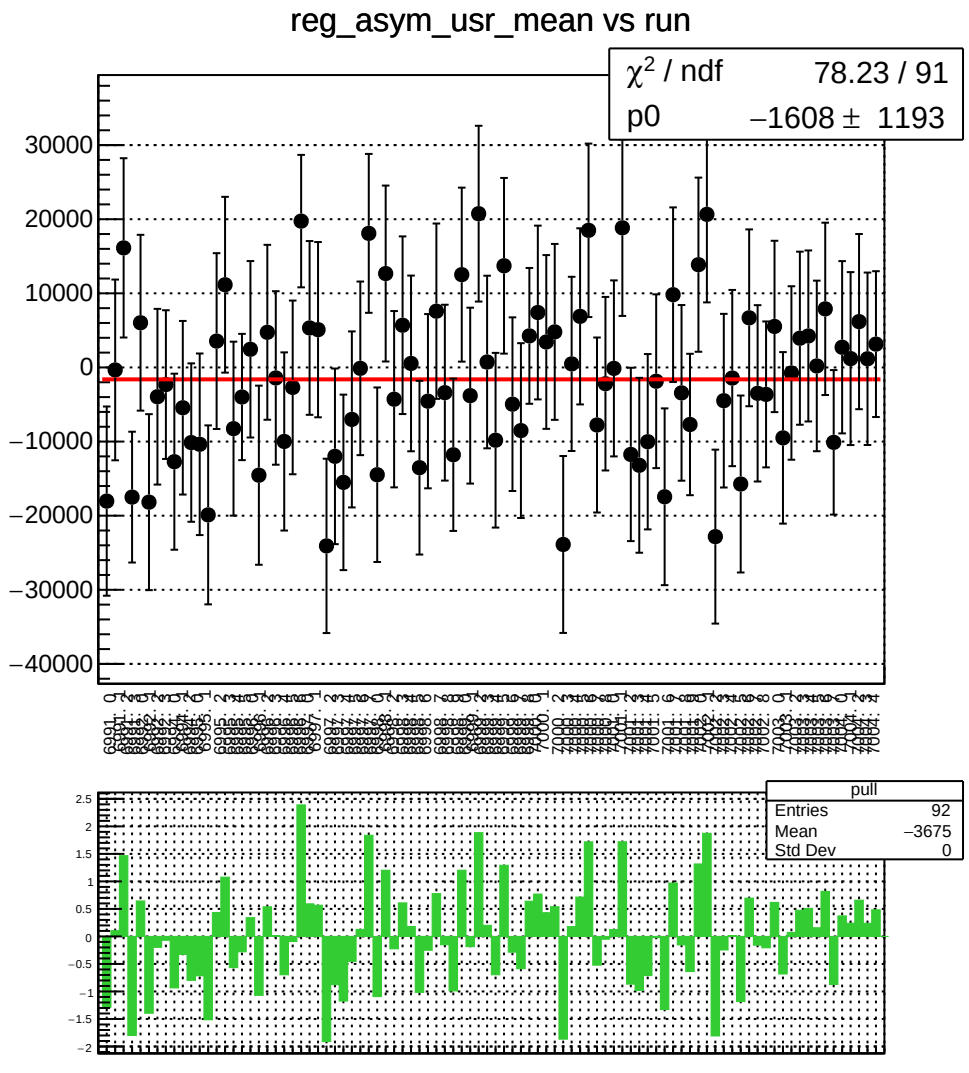

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 69.04 / 91
p0 0.007612 ± 0.04563
pull
Entries 92
Mean 620.9
Std Dev 0
pull1D
Entries 92
Mean −0.004537
Std Dev 0.8663

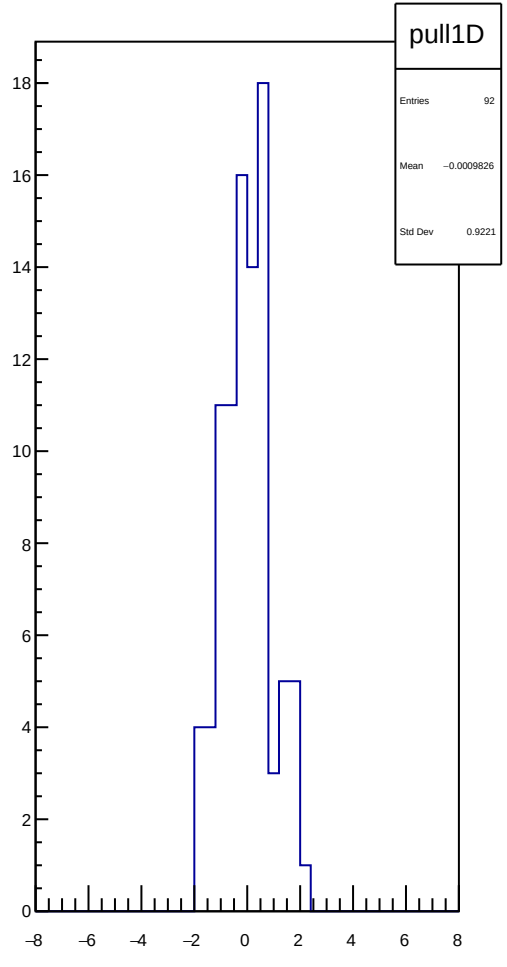

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.214e+05 / 91
p0 41.37 ± 0.03227
80
70
60
50
40
30
20

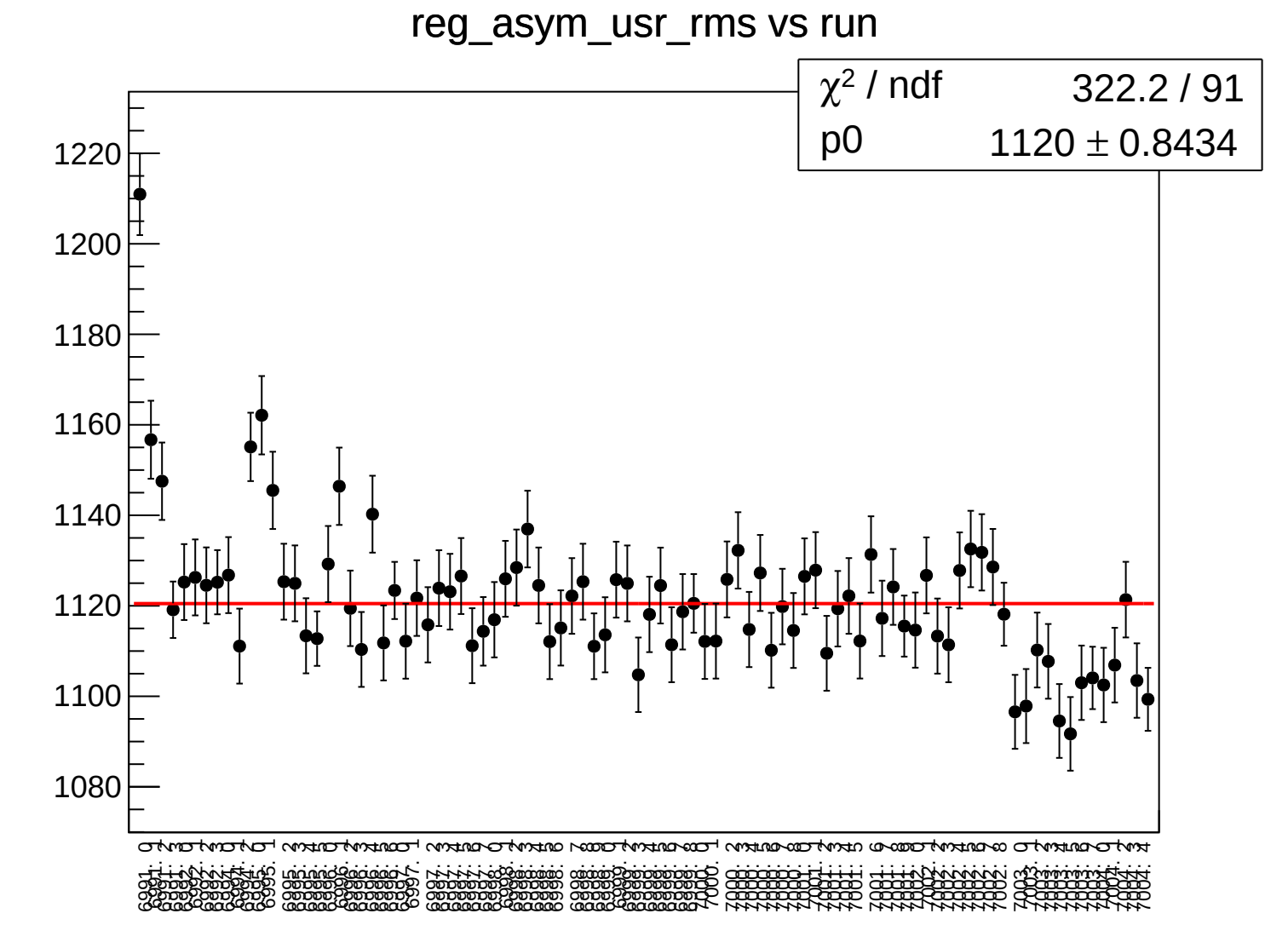

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.04 / 91
p0 0.007612 ± 0.04563
pull
Entries 92
Mean 620.9
Std Dev 0

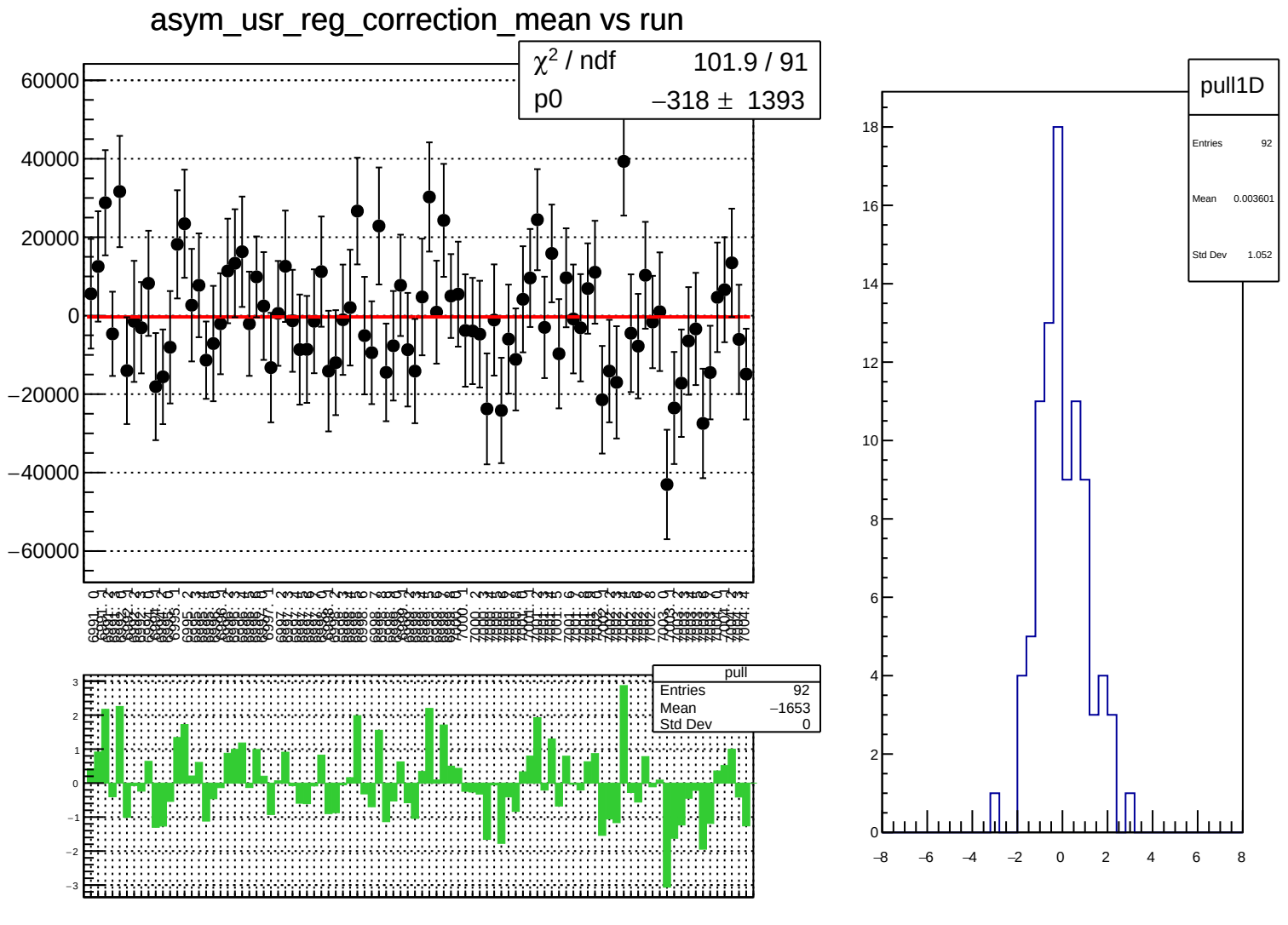

pull1D
Entries 92
Mean −0.004537
Std Dev 0.8663

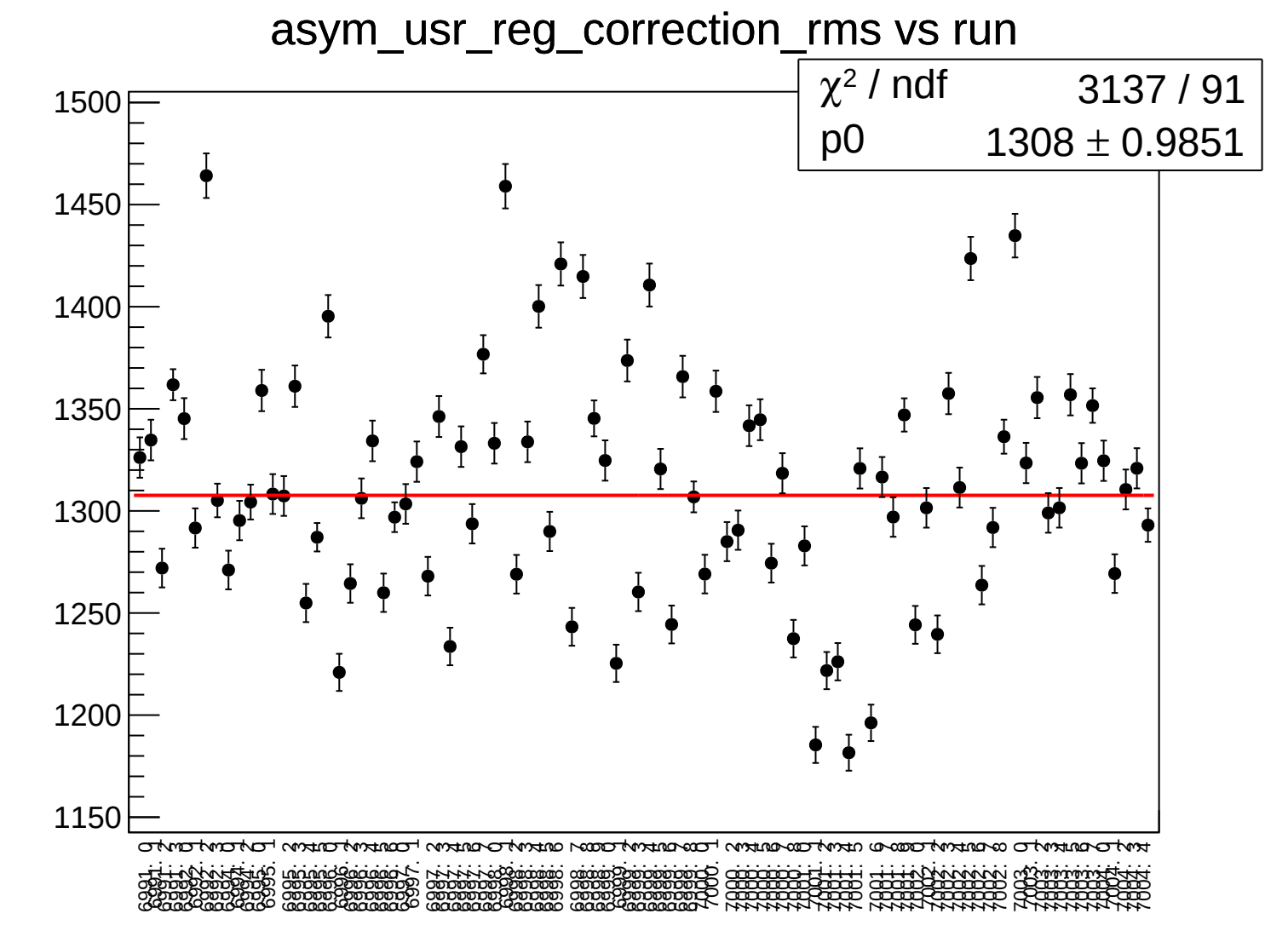

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.214e+05 / 91
p0 41.37 ± 0.03227
80
70
60
50
40
30
20

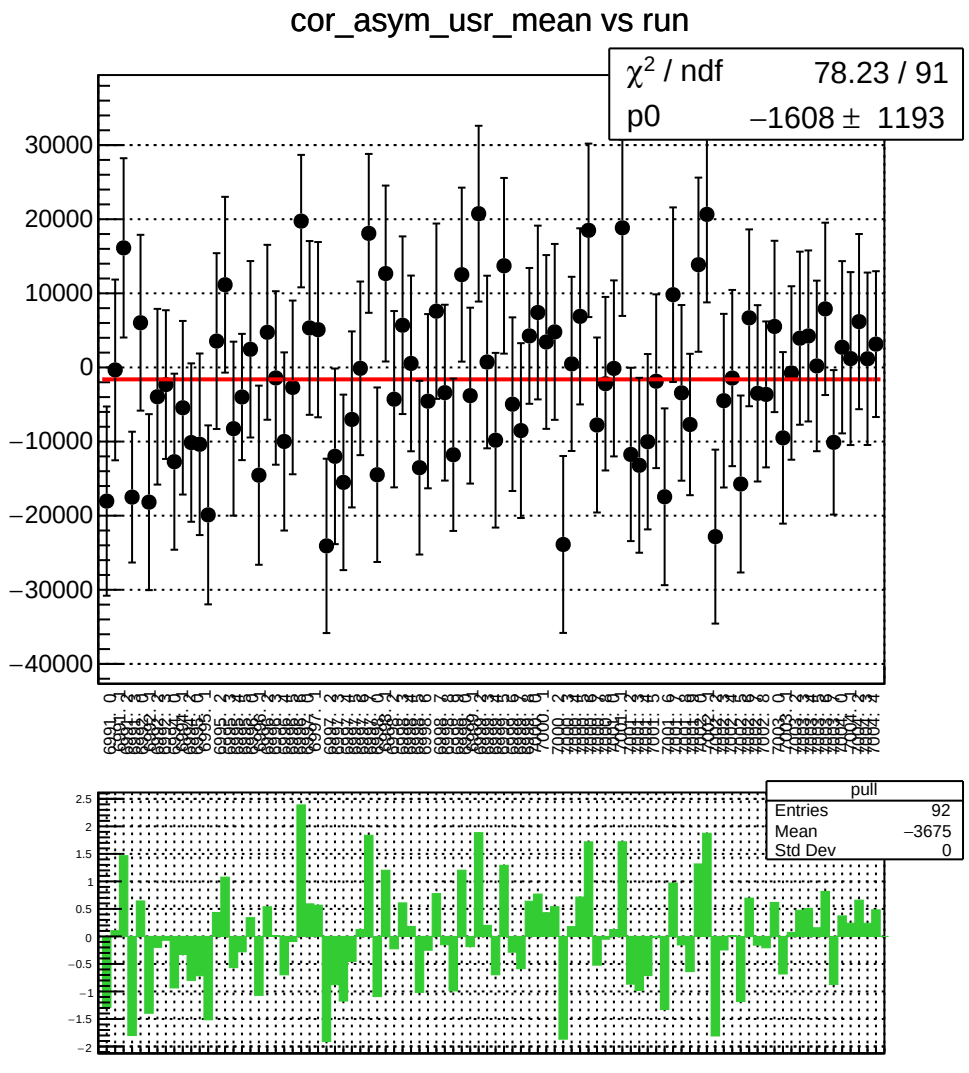

reg_asym_usr_mean vs run
χ² / ndf 78.23 / 91
p0 −1608 ± 1193
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −3675
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

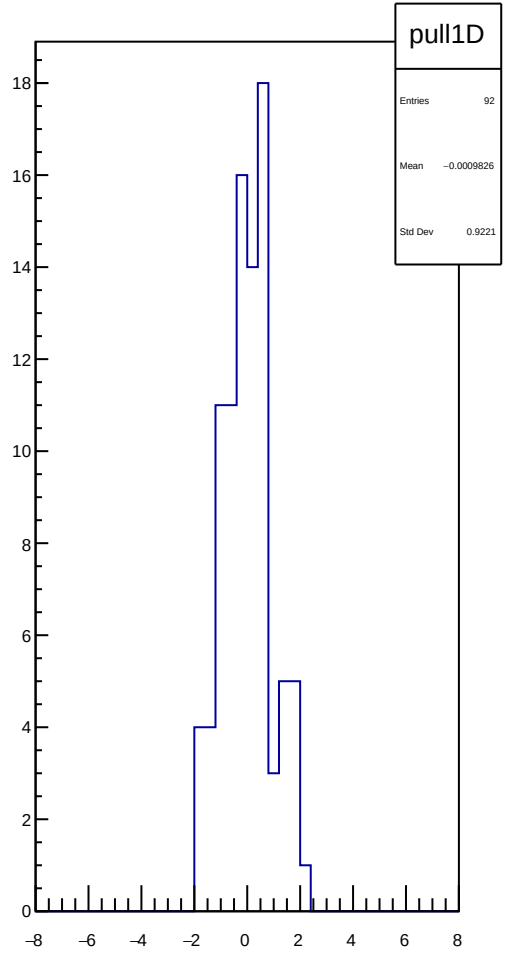

pull1D
Entries 92
Mean −0.0009826
Std Dev 0.9221
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

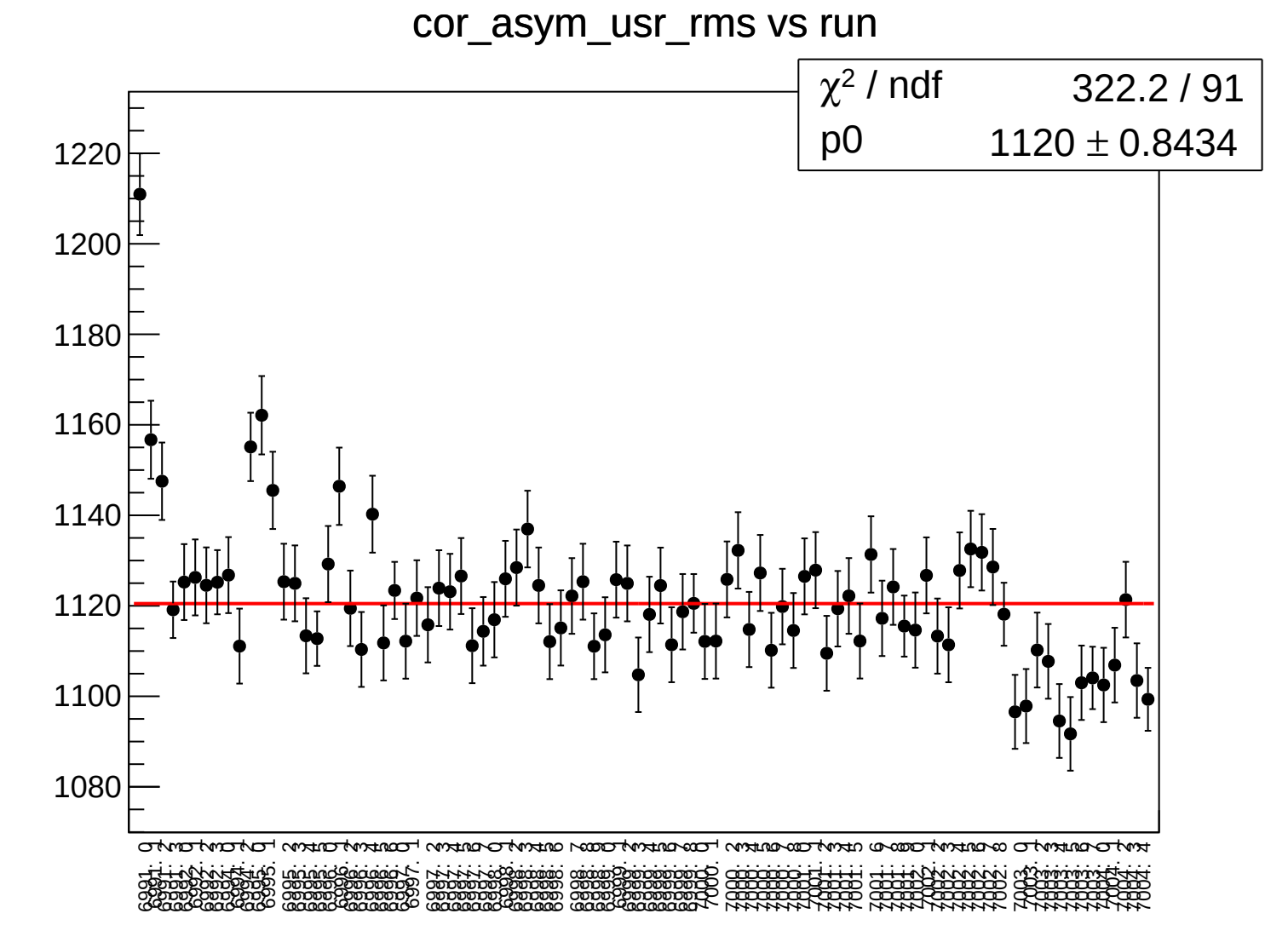

reg_asym_usr_rms vs run
χ² / ndf 322.2 / 91
p0 1120 ± 0.8434
1220
1200
1180
1160
1140
1120
1100
1080

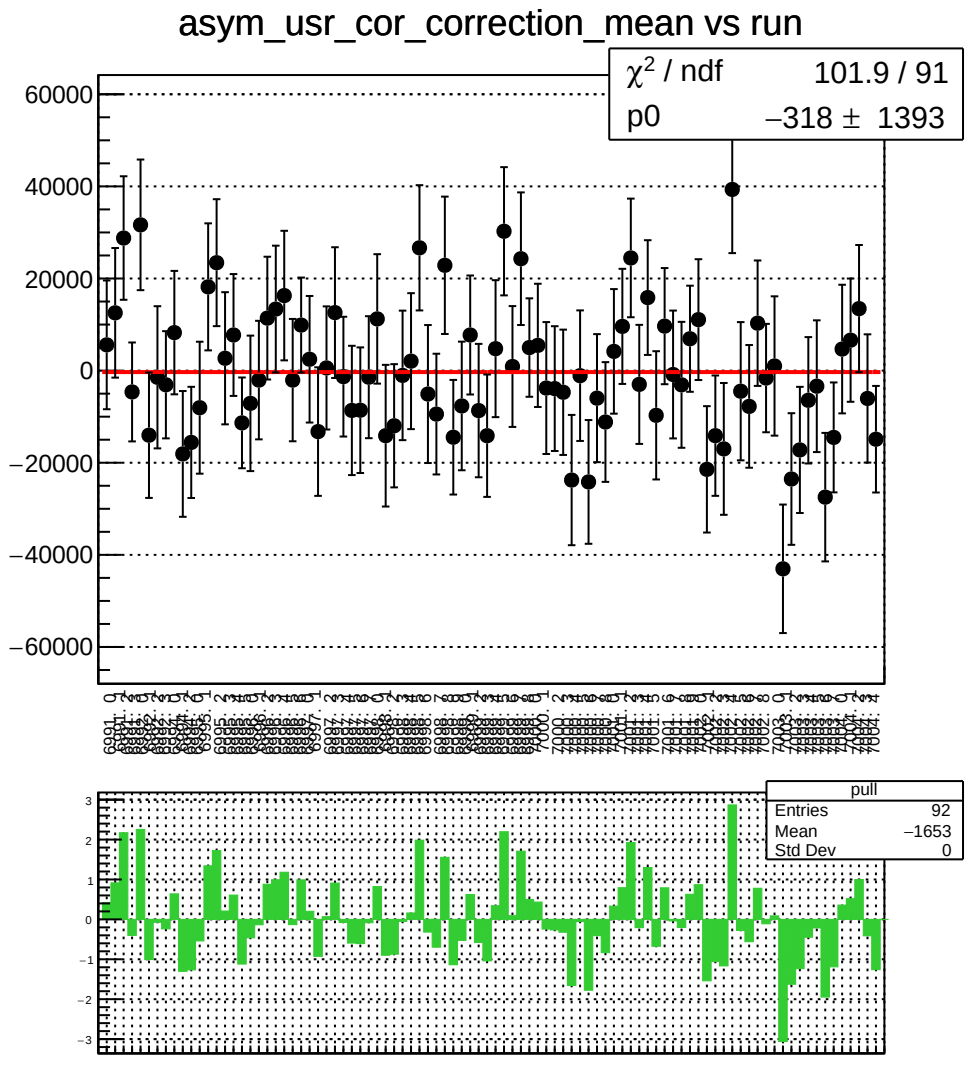

asym_usr_reg_correction_mean vs run
χ² / ndf 101.9 / 91
p0 −318 ± 1393
pull
Entries 92
Mean −1653
Std Dev 0
pull1D
Entries 92
Mean 0.003601
Std Dev 1.052

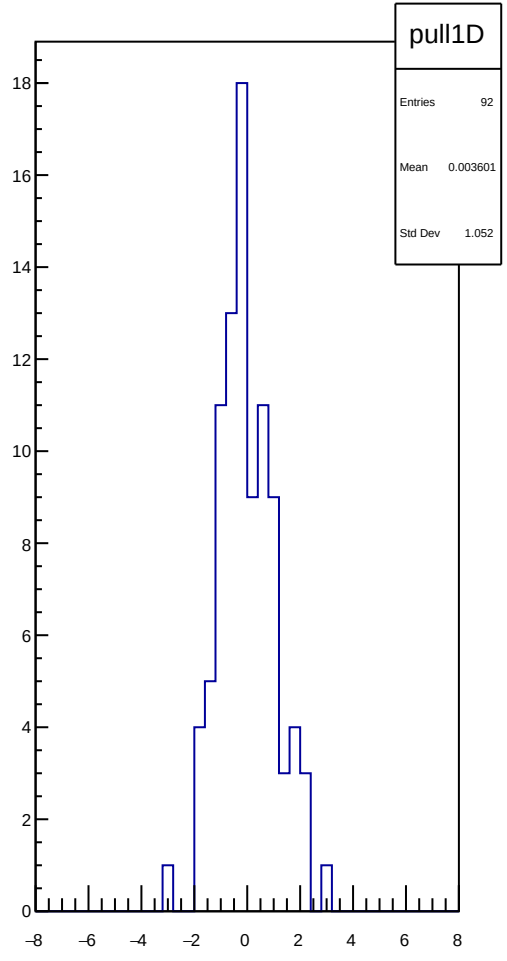

asym_usr_reg_correction_rms vs run
χ² / ndf 3137 / 91
p0 1308 ± 0.9851
1500
1450
1400
1350
1300
1250
1200
1150

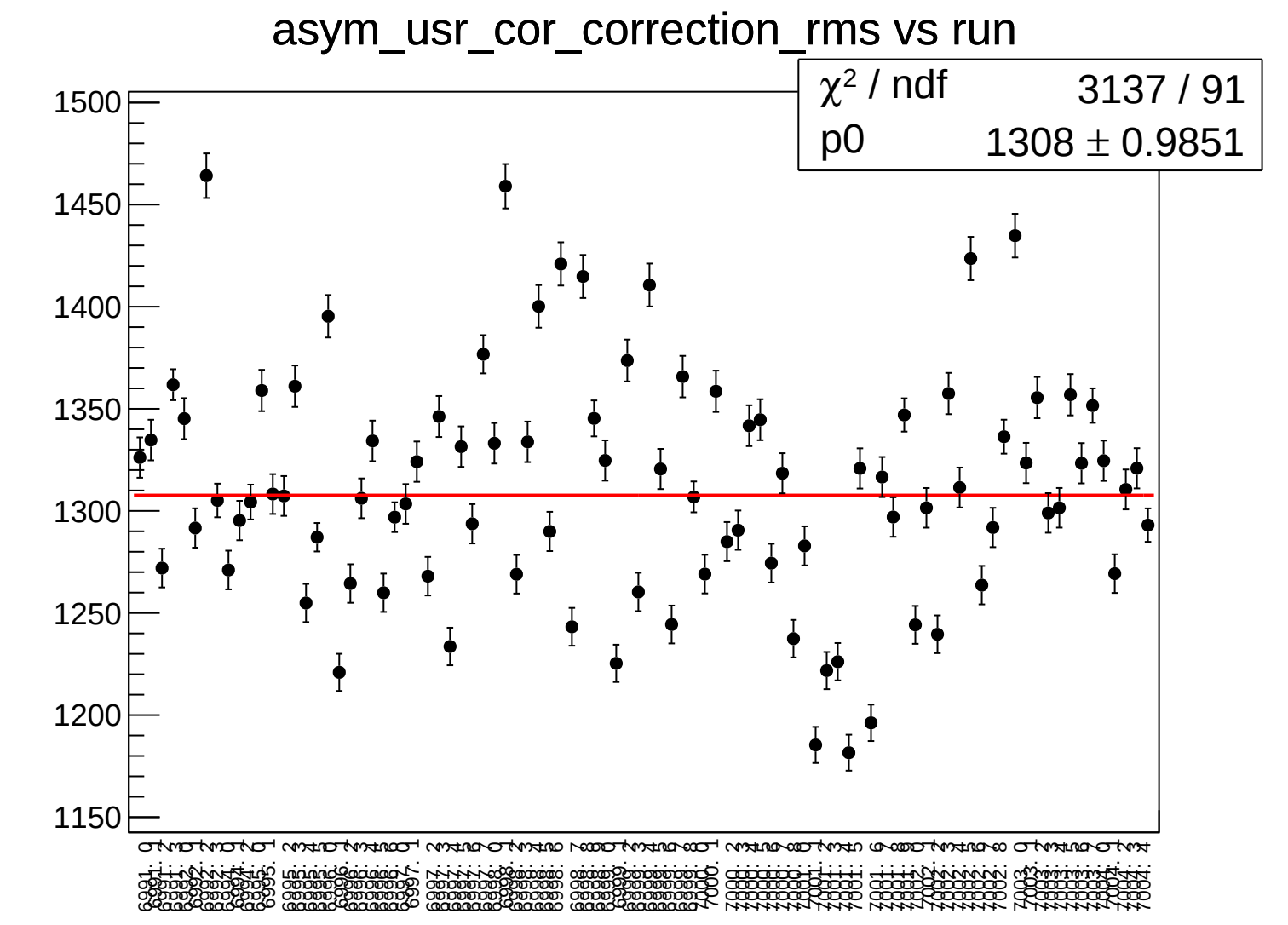

cor_asym_usr_mean vs run
χ² / ndf 78.23 / 91
p0 −1608 ± 1193
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −3675
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

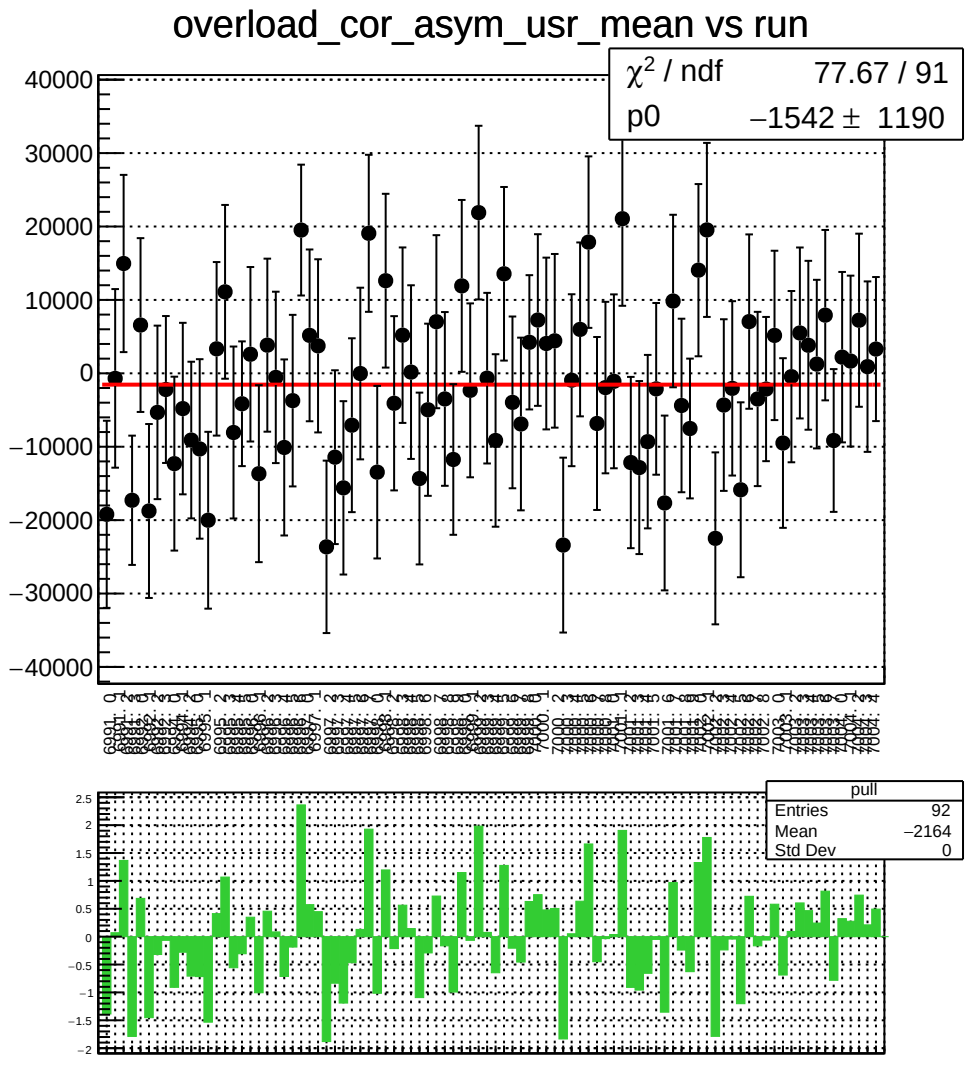

pull1D
Entries 92
Mean −0.0009826
Std Dev 0.9221
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

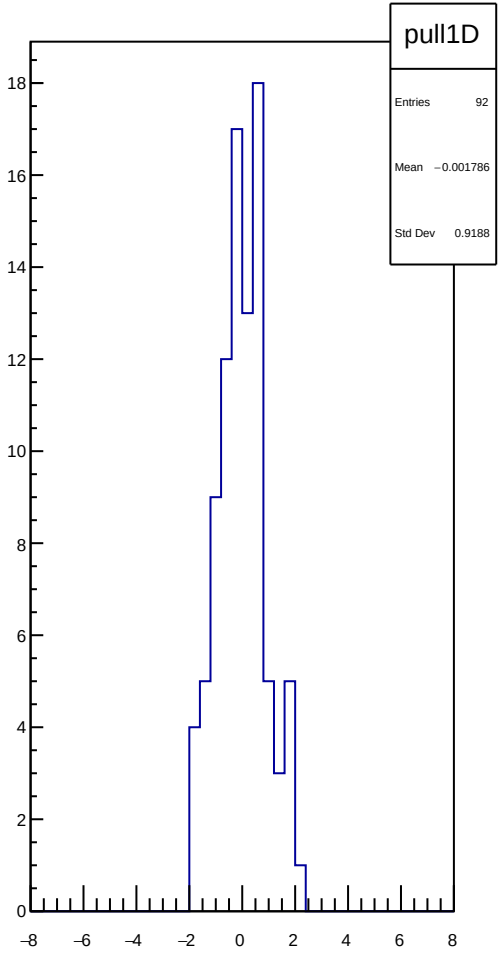

cor_asym_usr_rms vs run
χ² / ndf 322.2 / 91
p0 1120 ± 0.8434
1220
1200
1180
1160
1140
1120
1100
1080

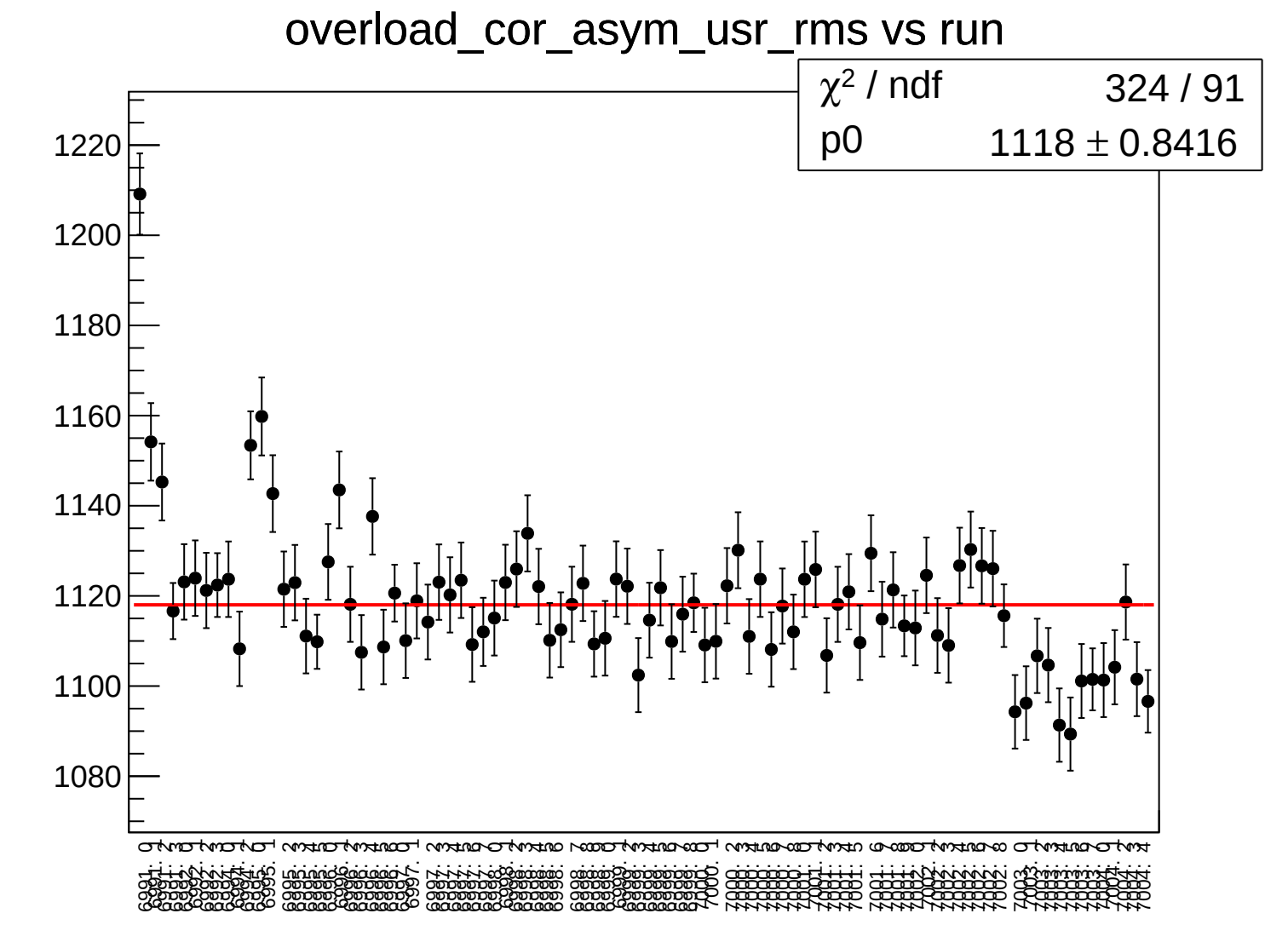

asym_usr_cor_correction_mean vs run
χ² / ndf 101.9 / 91
p0 −318 ± 1393
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1653
Std Dev 0
3
2
1
0
−1
−2
−3

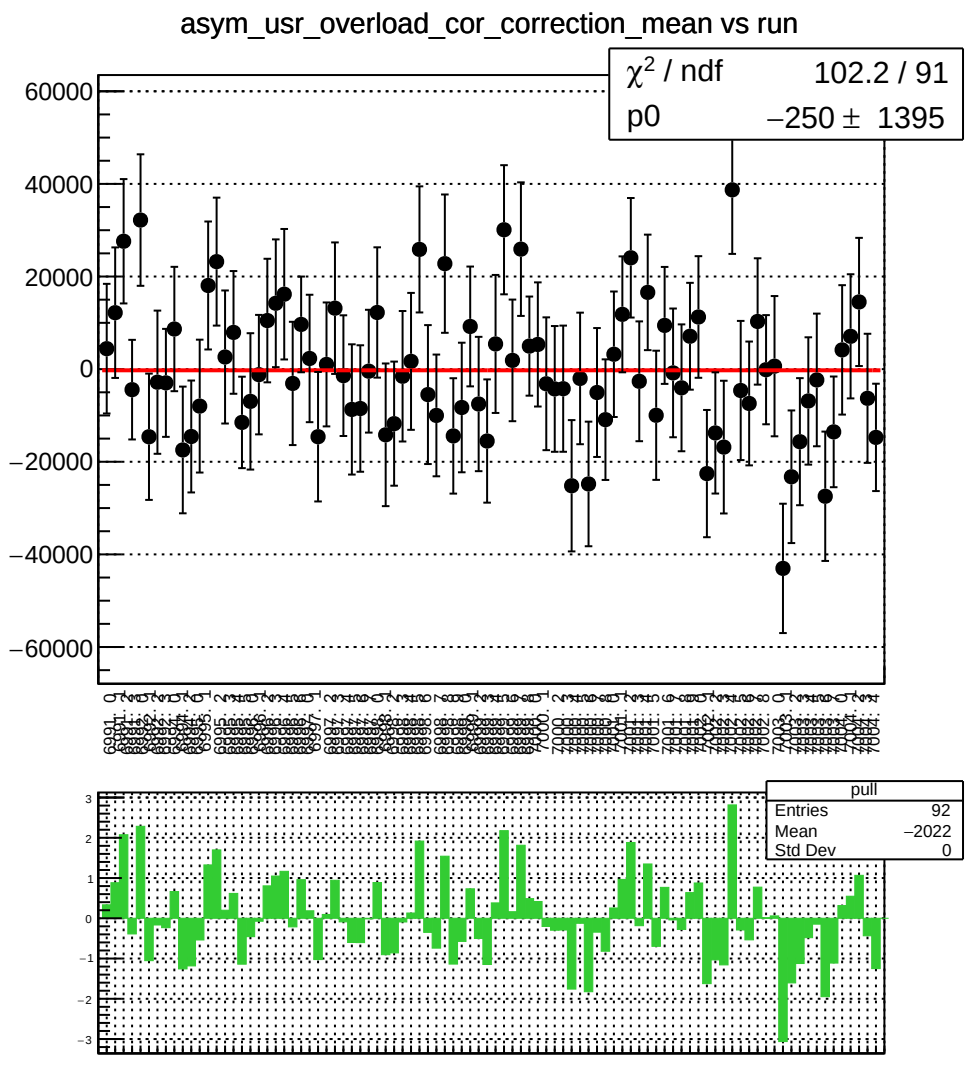

pull1D
Entries 92
Mean 0.003601
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

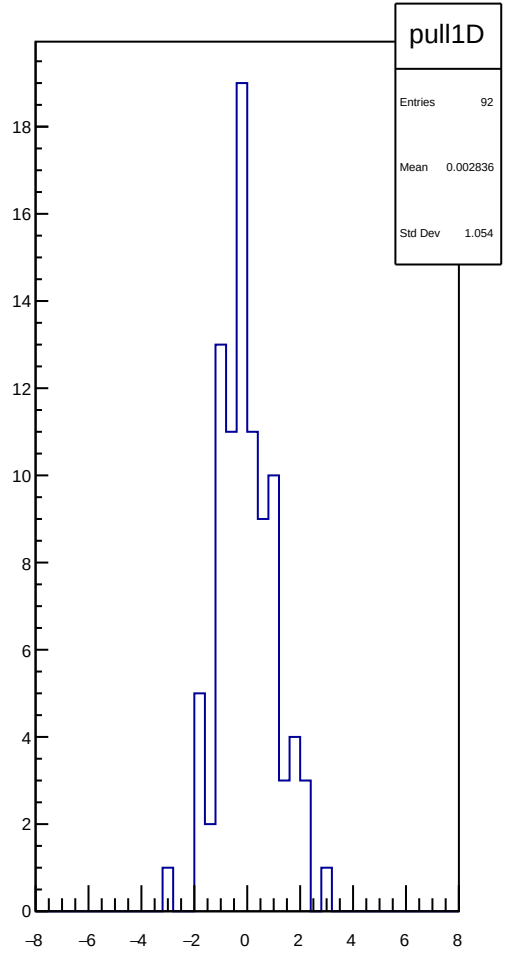

asym_usr_cor_correction_rms vs run
χ² / ndf 3137 / 91
p0 1308 ± 0.9851
1500
1450
1400
1350
1300
1250
1200
1150

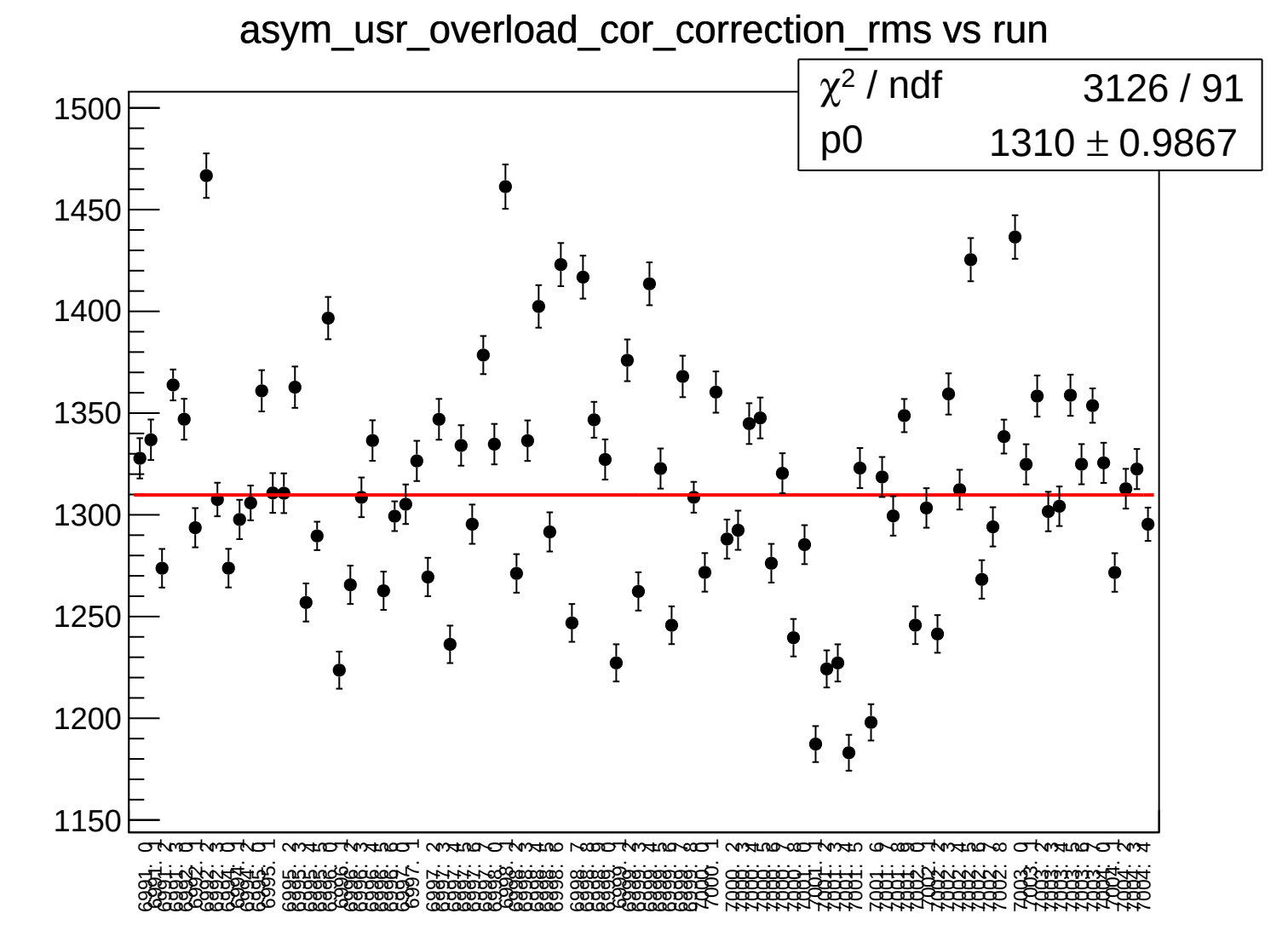

overload_cor_asym_usr_mean vs run
χ² / ndf 77.67 / 91
p0 −1542 ± 1190
pull
Entries 92
Mean −2164
Std Dev 0

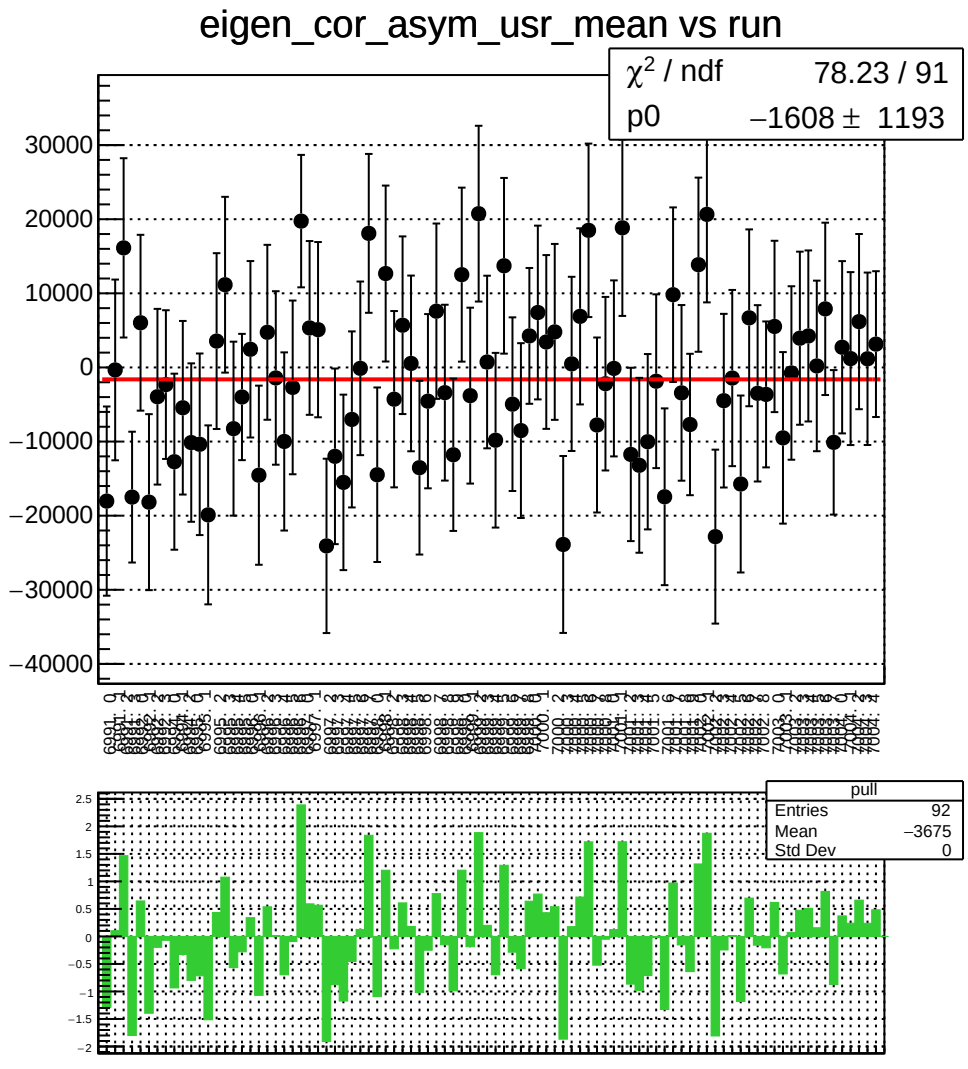

pull1D
Entries 92
Mean −0.001786
Std Dev 0.9188

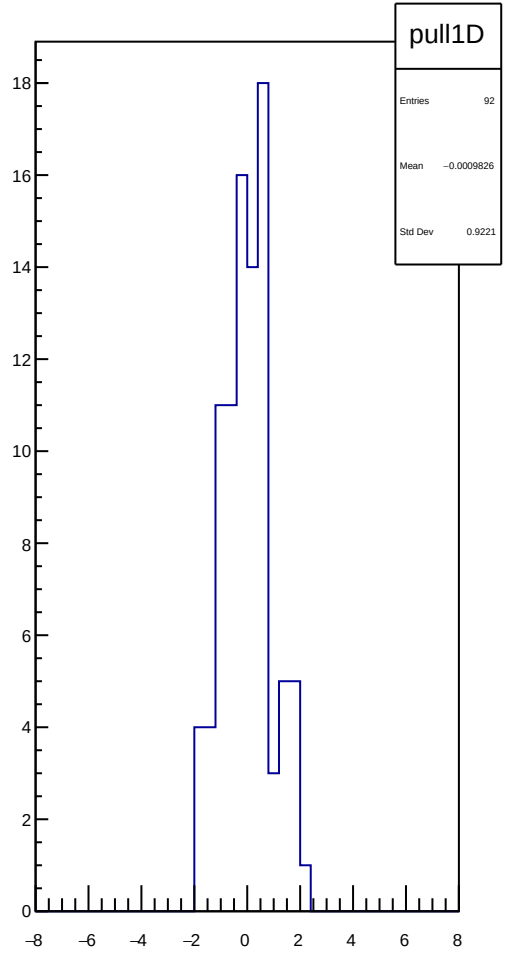

overload_cor_asym_usr_rms vs run
χ² / ndf 324 / 91
p0 1118 ± 0.8416
1220
1200
1180
1160
1140
1120
1100
1080

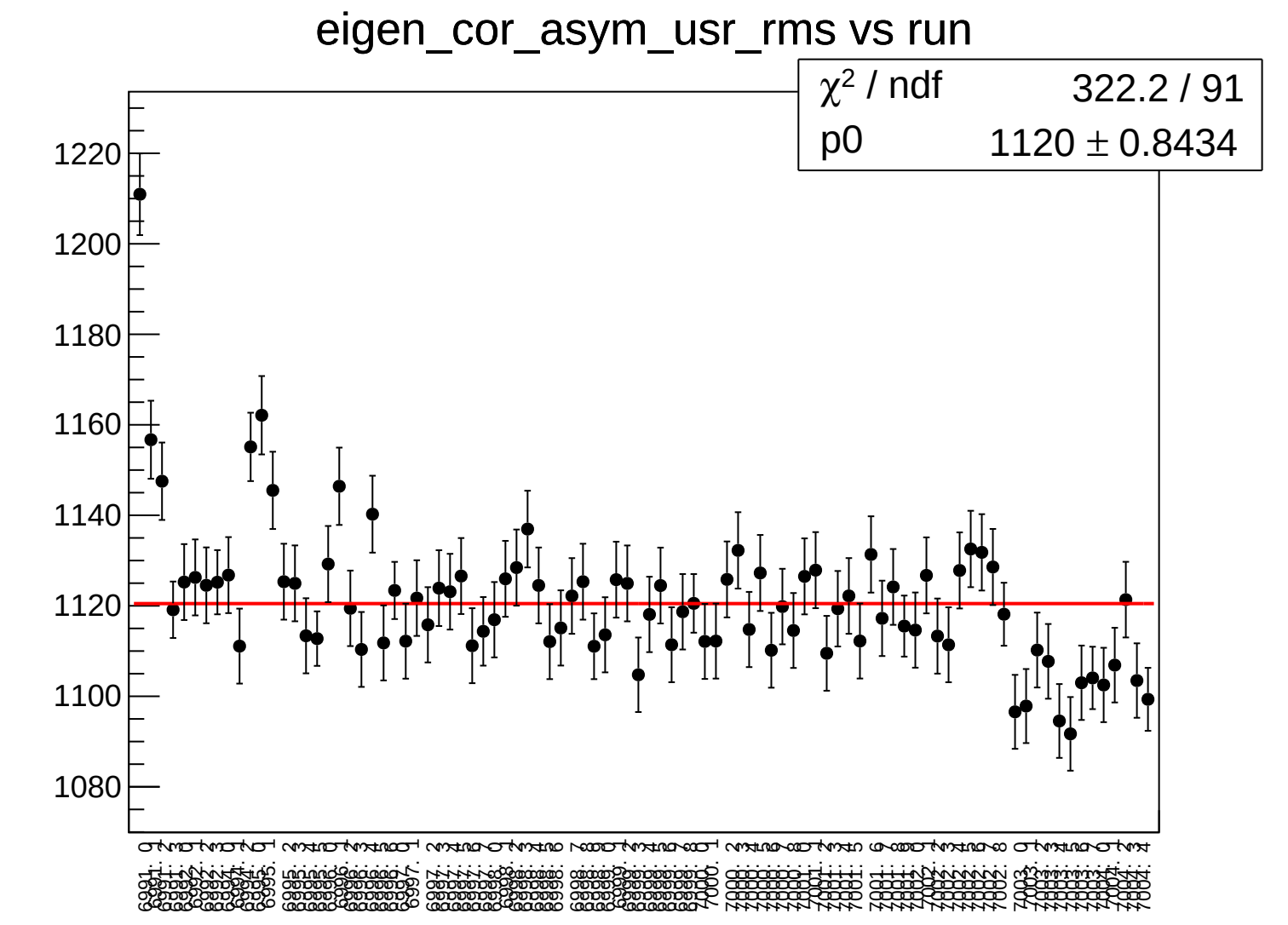

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 102.2 / 91
p0 −250 ± 1395
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2022
Std Dev 0
3
2
1
0
−1
−2
−3

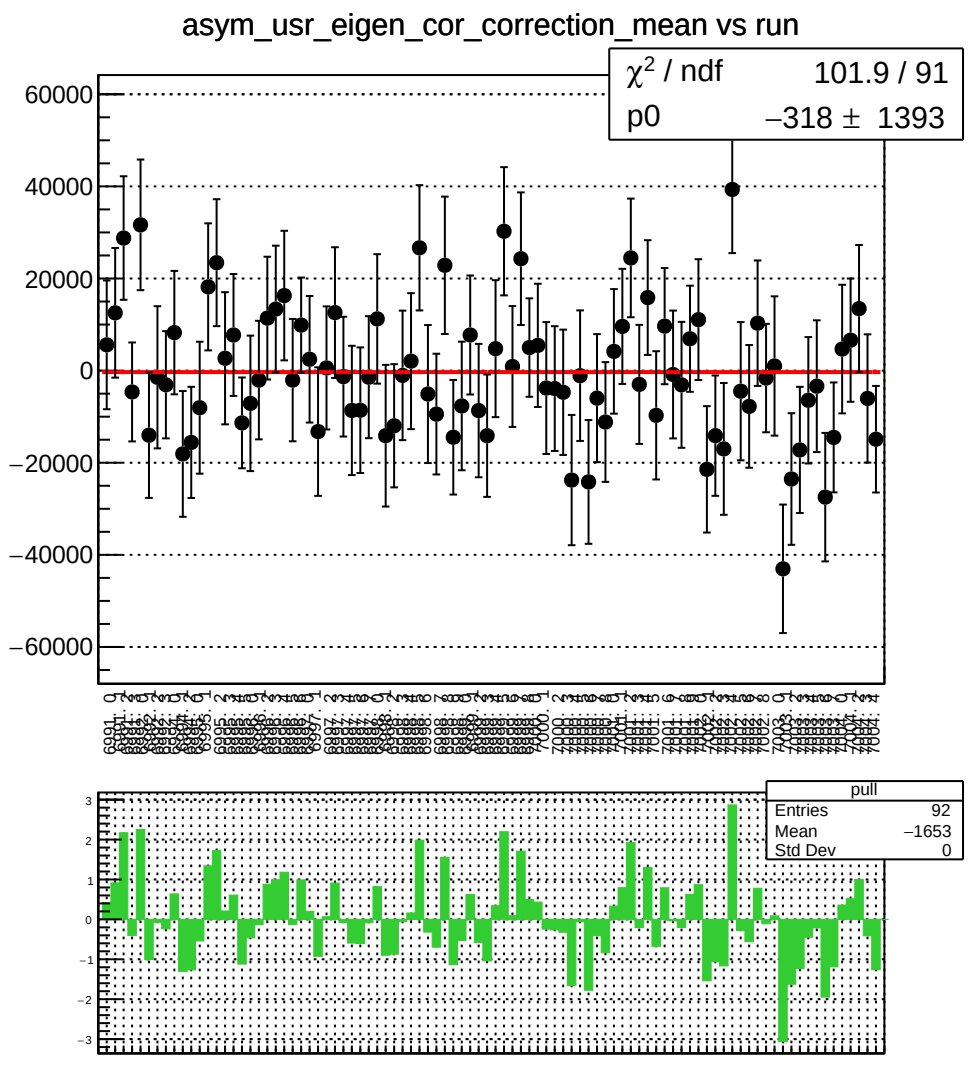

pull1D
Entries 92
Mean 0.002836
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

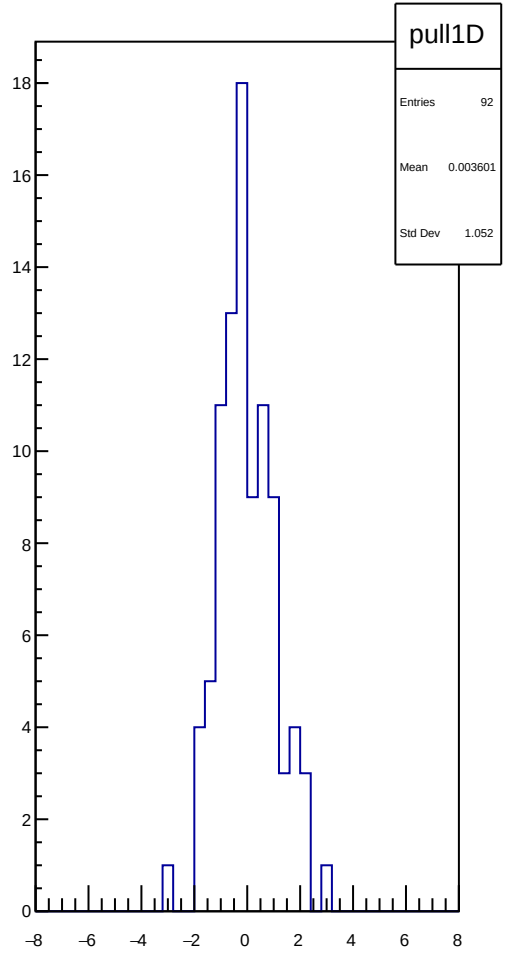

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 3126 / 91
p0 1310 ± 0.9867
1500
1450
1400
1350
1300
1250
1200
1150

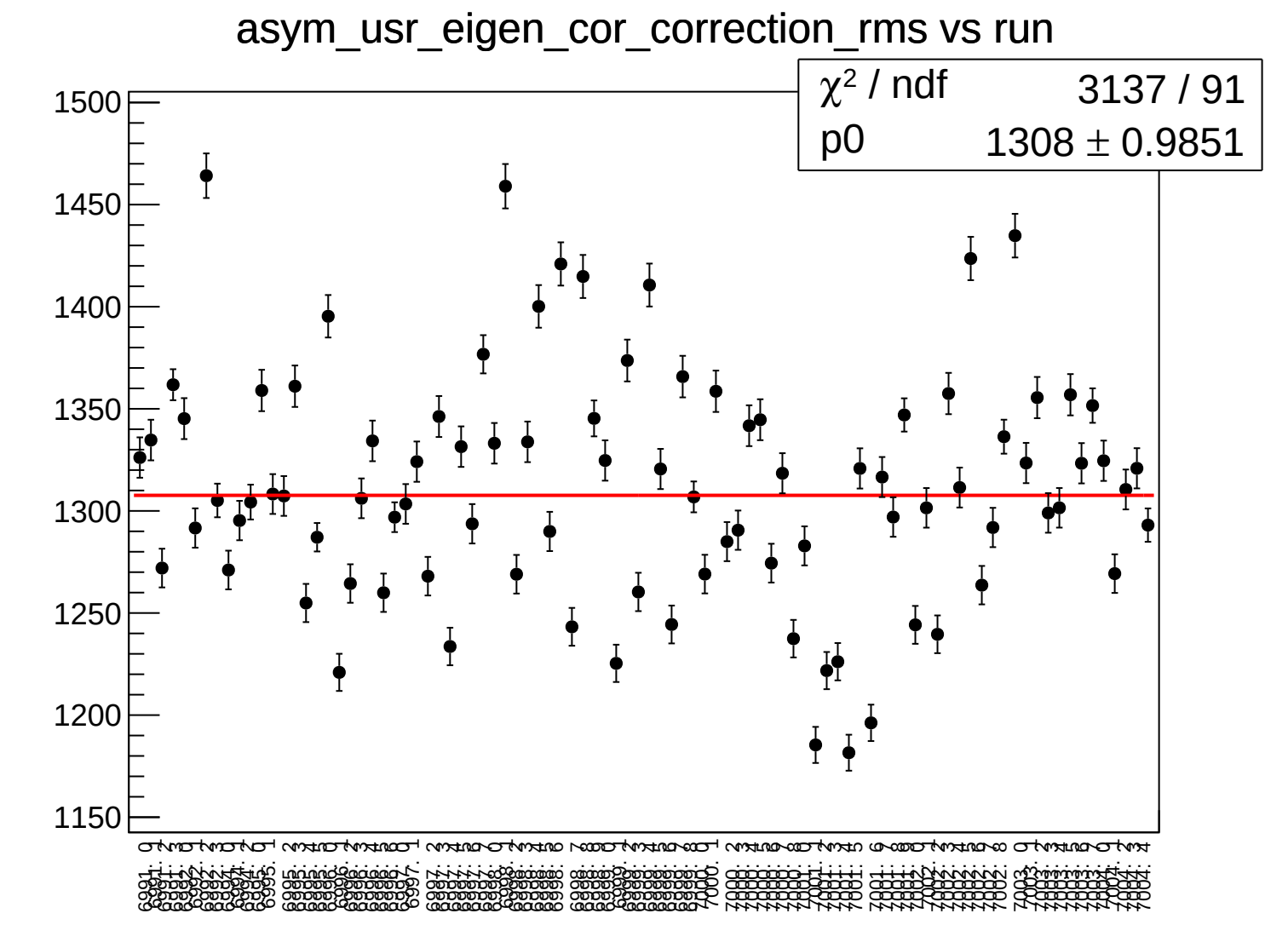

eigen_cor_asym_usr_mean vs run
χ² / ndf 78.23 / 91
p0 −1608 ± 1193
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −3675
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

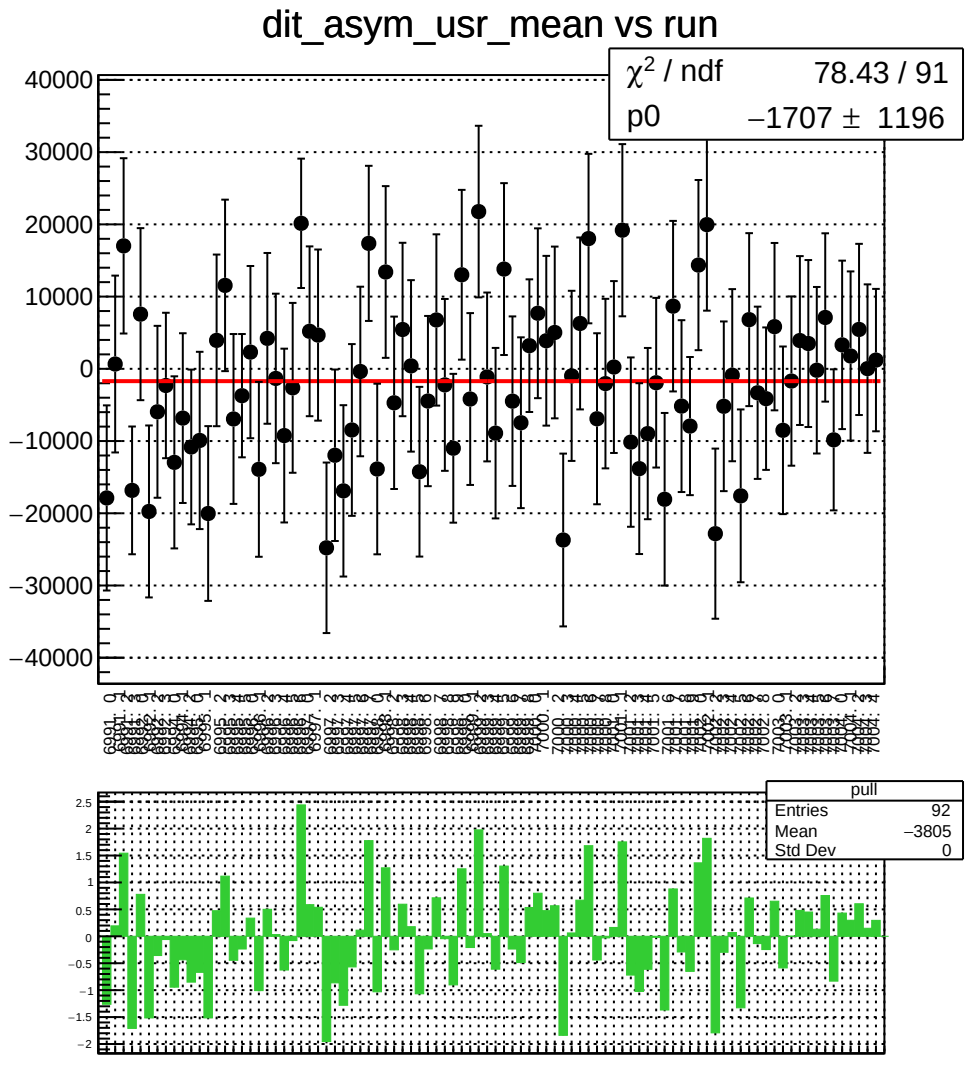

pull1D
Entries 92
Mean −0.0009826
Std Dev 0.9221
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

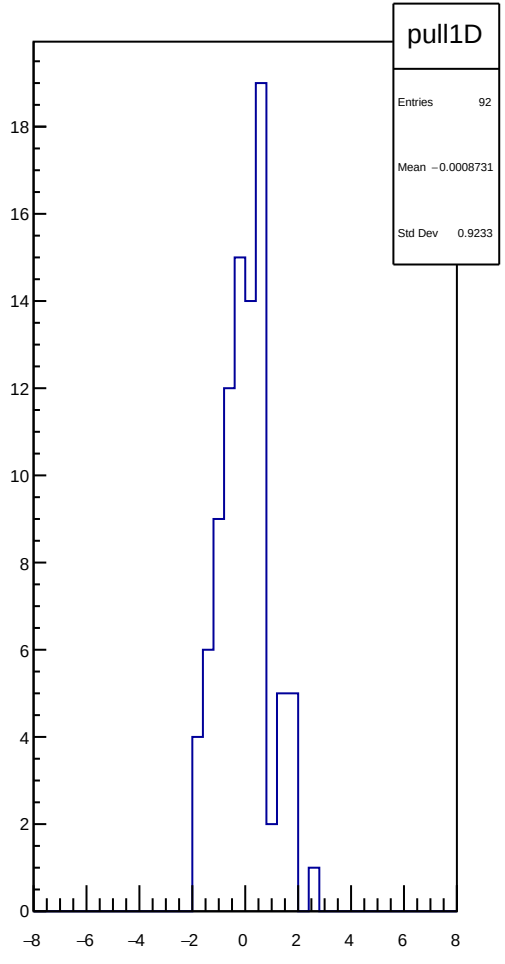

eigen_cor_asym_usr_rms vs run
χ² / ndf 322.2 / 91
p0 1120 ± 0.8434
1220
1200
1180
1160
1140
1120
1100
1080

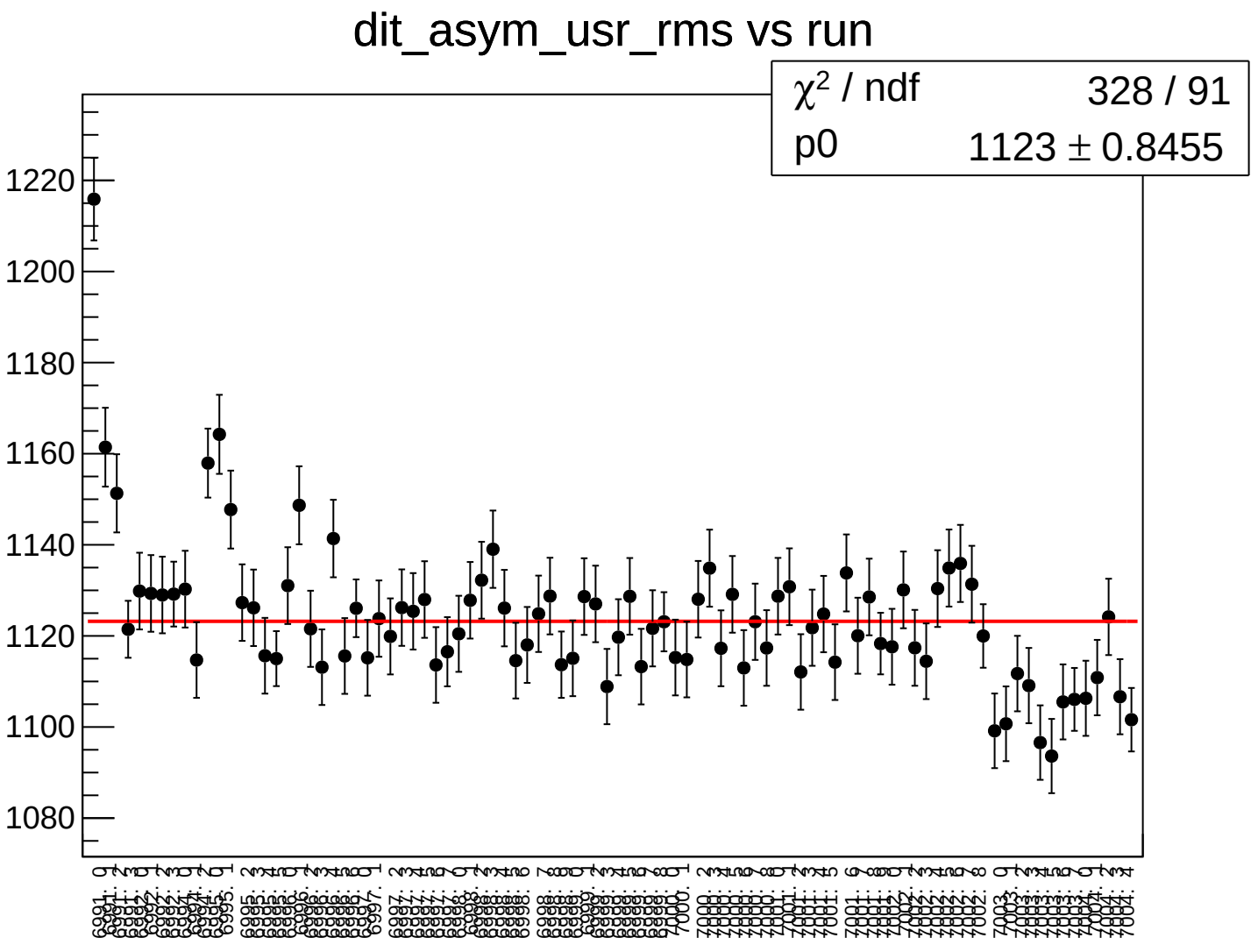

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 101.9 / 91
p0 −318 ± 1393
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1653
Std Dev 0
3
2
1
0
−1
−2
−3

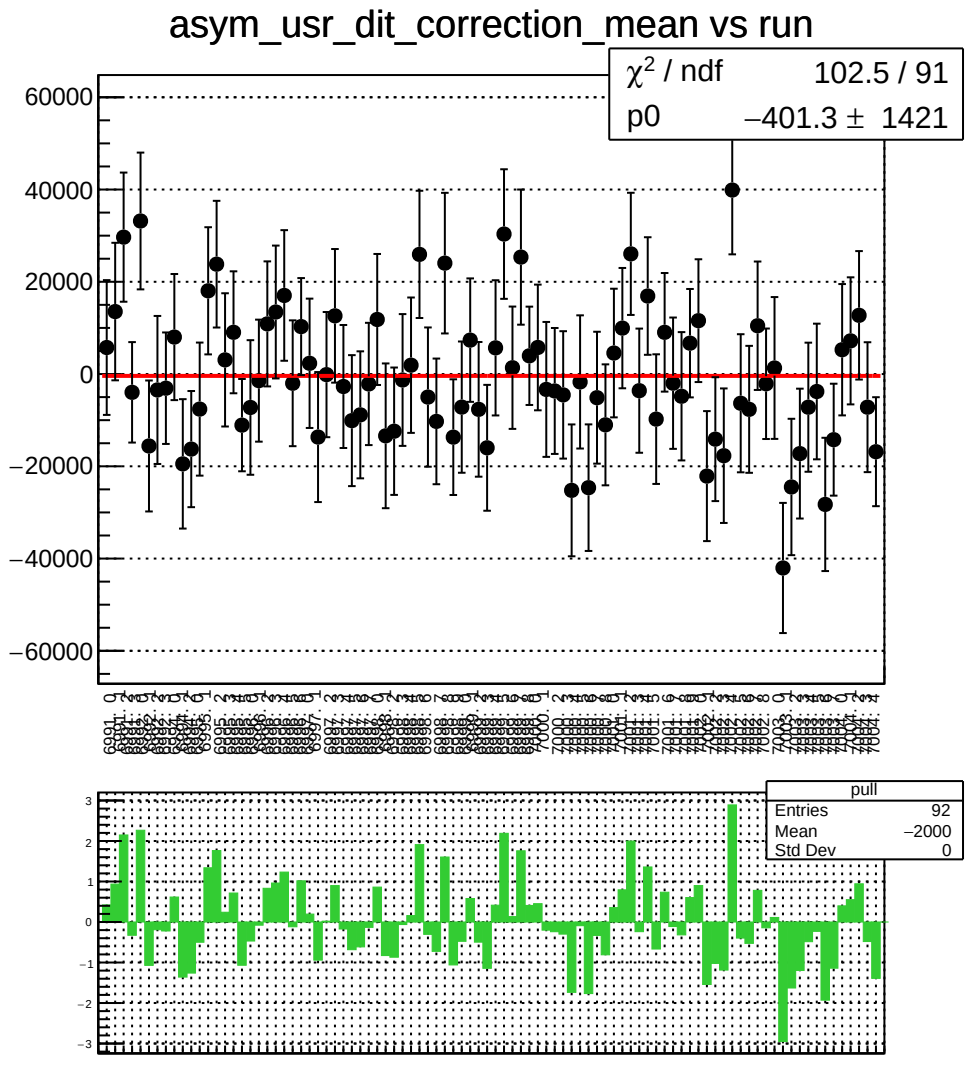

pull1D
Entries 92
Mean 0.003601
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

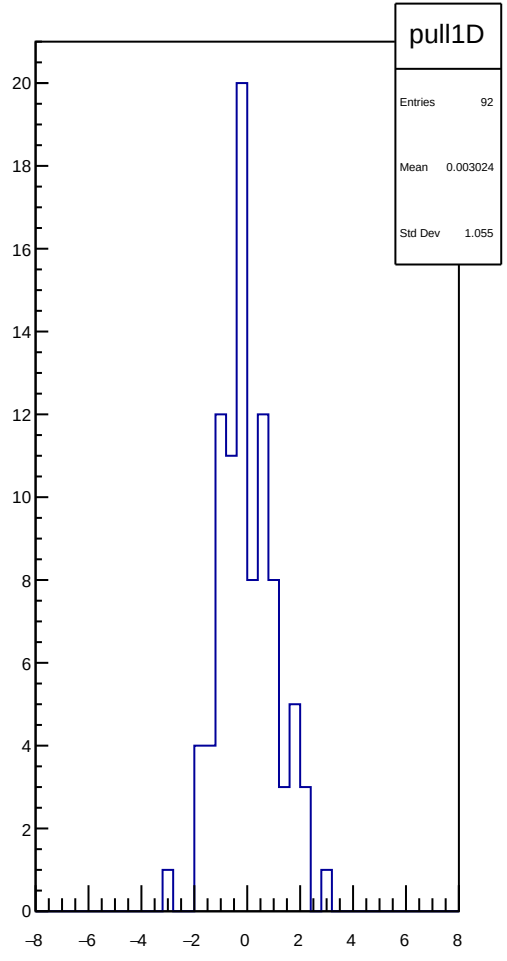

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 3137 / 91
p0 1308 ± 0.9851
1500
1450
1400
1350
1300
1250
1200
1150

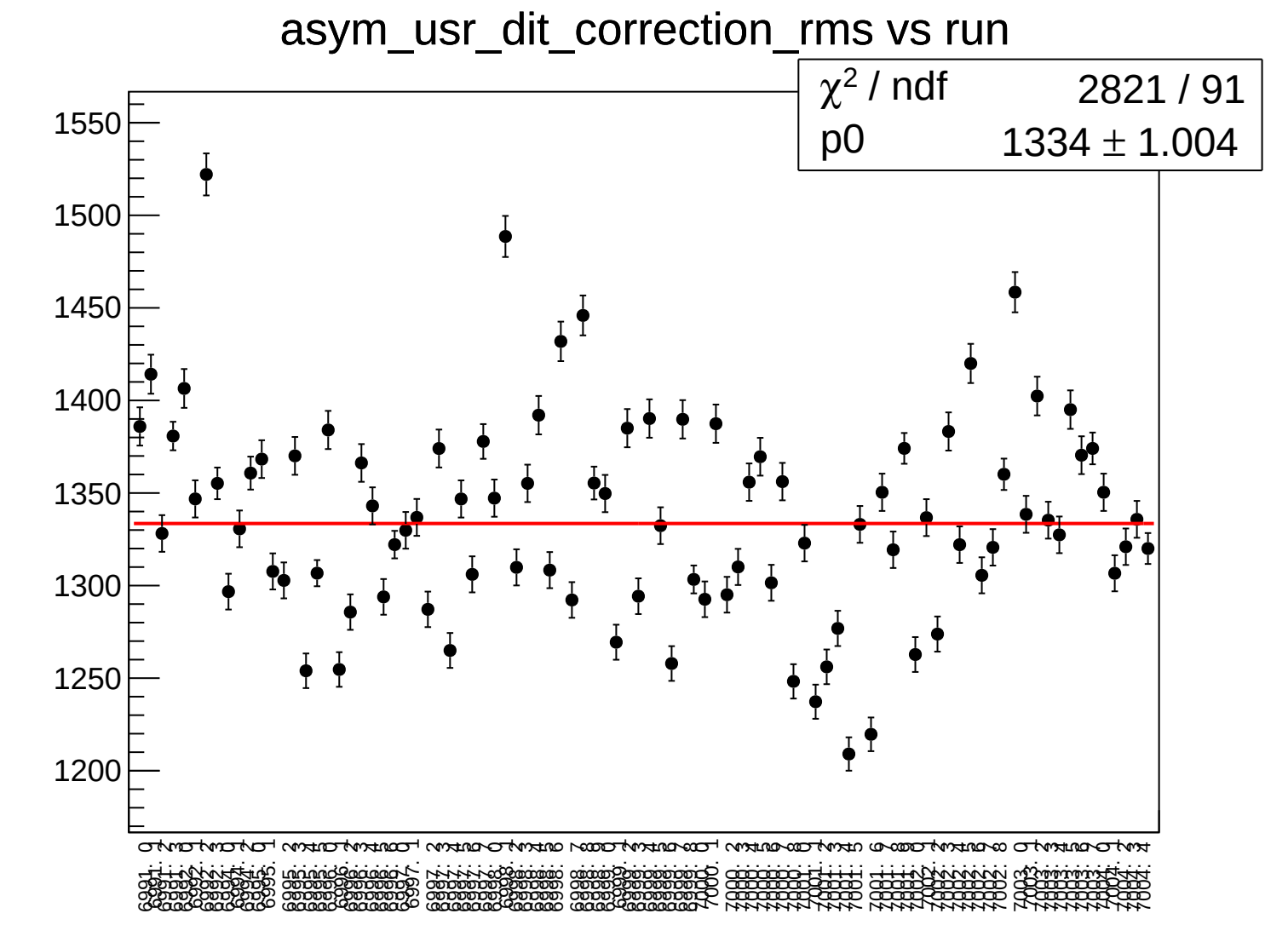

dit_asym_usr_mean vs run
χ² / ndf 78.43 / 91
p0 −1707 ± 1196
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −3805
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

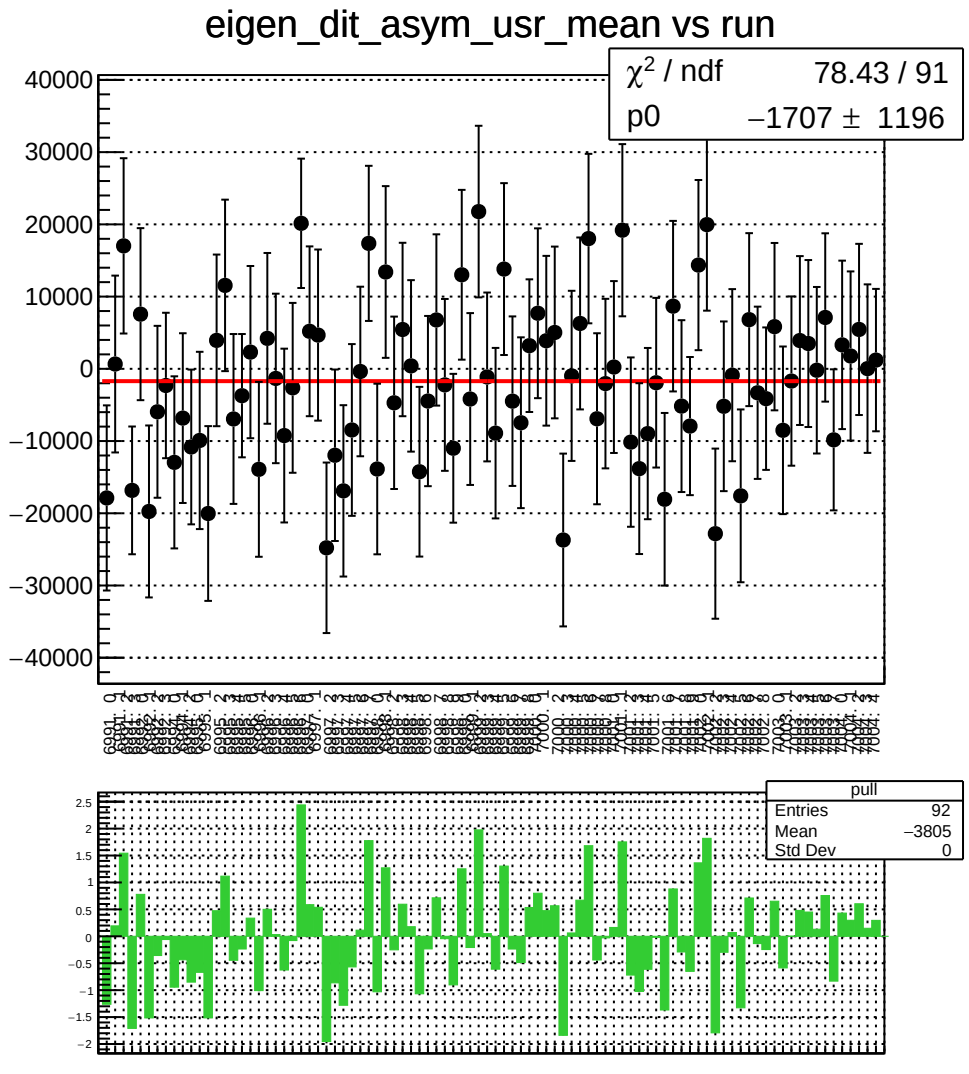

pull1D
Entries 92
Mean −0.0008731
Std Dev 0.9233
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

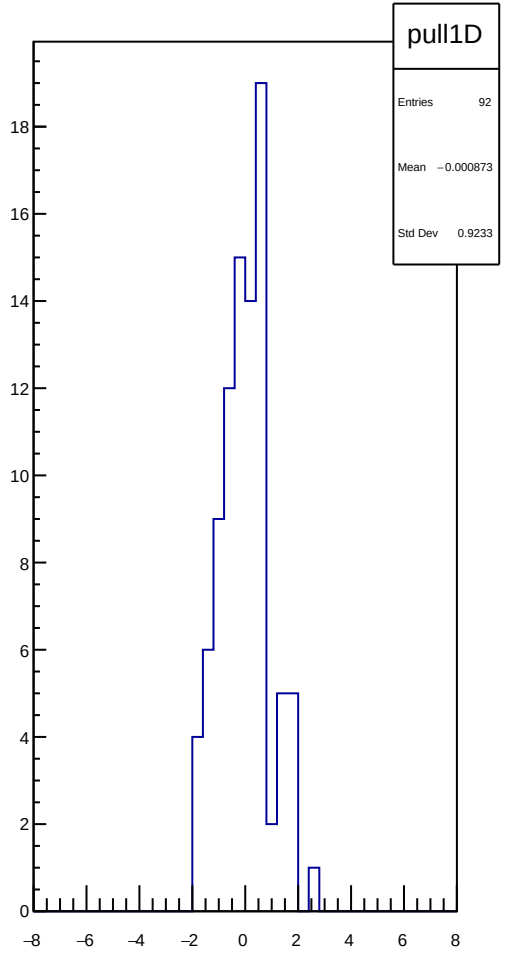

dit_asym_usr_rms vs run
χ² / ndf 328 / 91
p0 1123 ± 0.8455
1220
1200
1180
1160
1140
1120
1100
1080

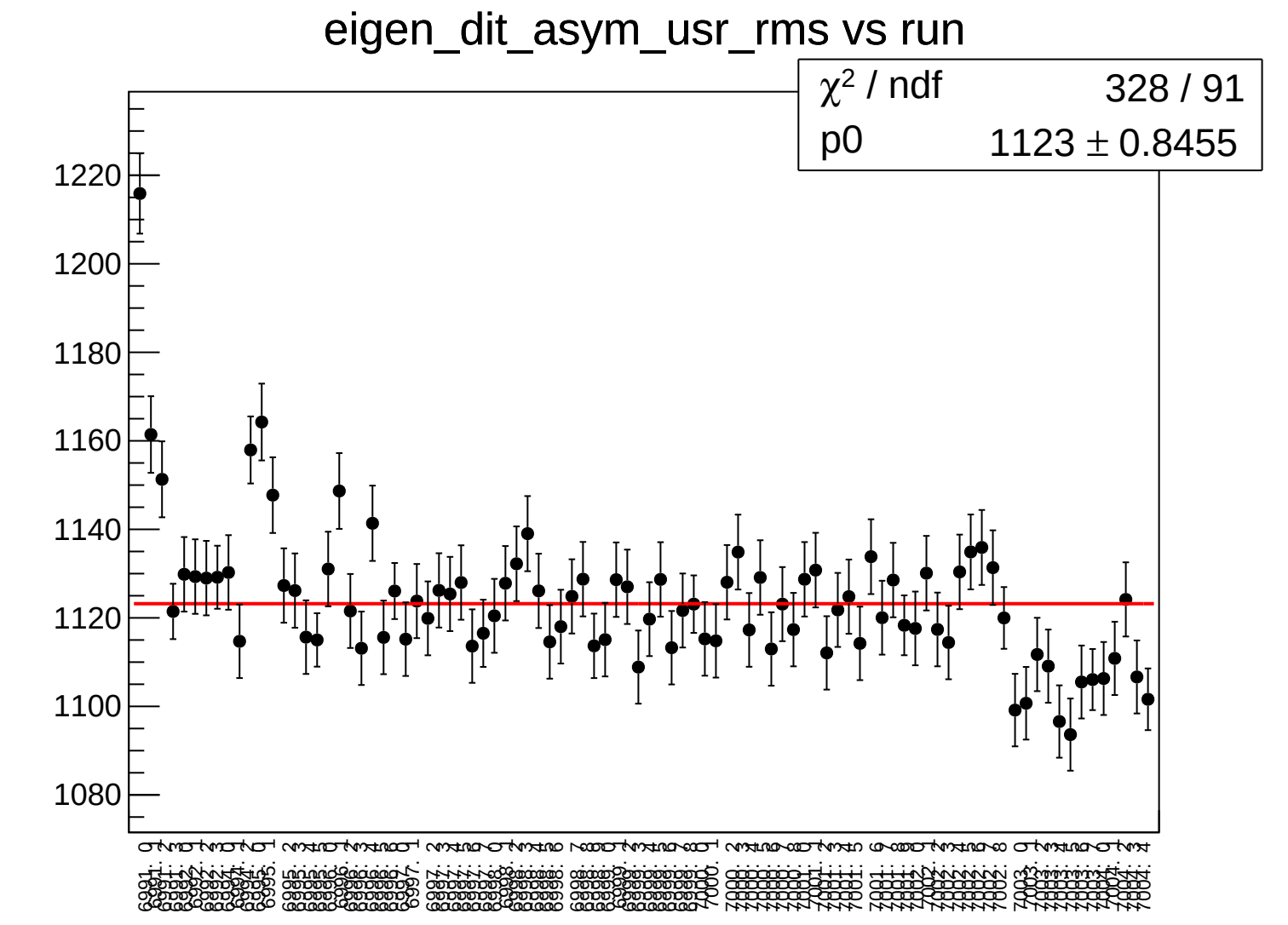

asym_usr_dit_correction_mean vs run
χ² / ndf 102.5 / 91
p0 −401.3 ± 1421
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2000
Std Dev 0
3
2
1
0
−1
−2
−3

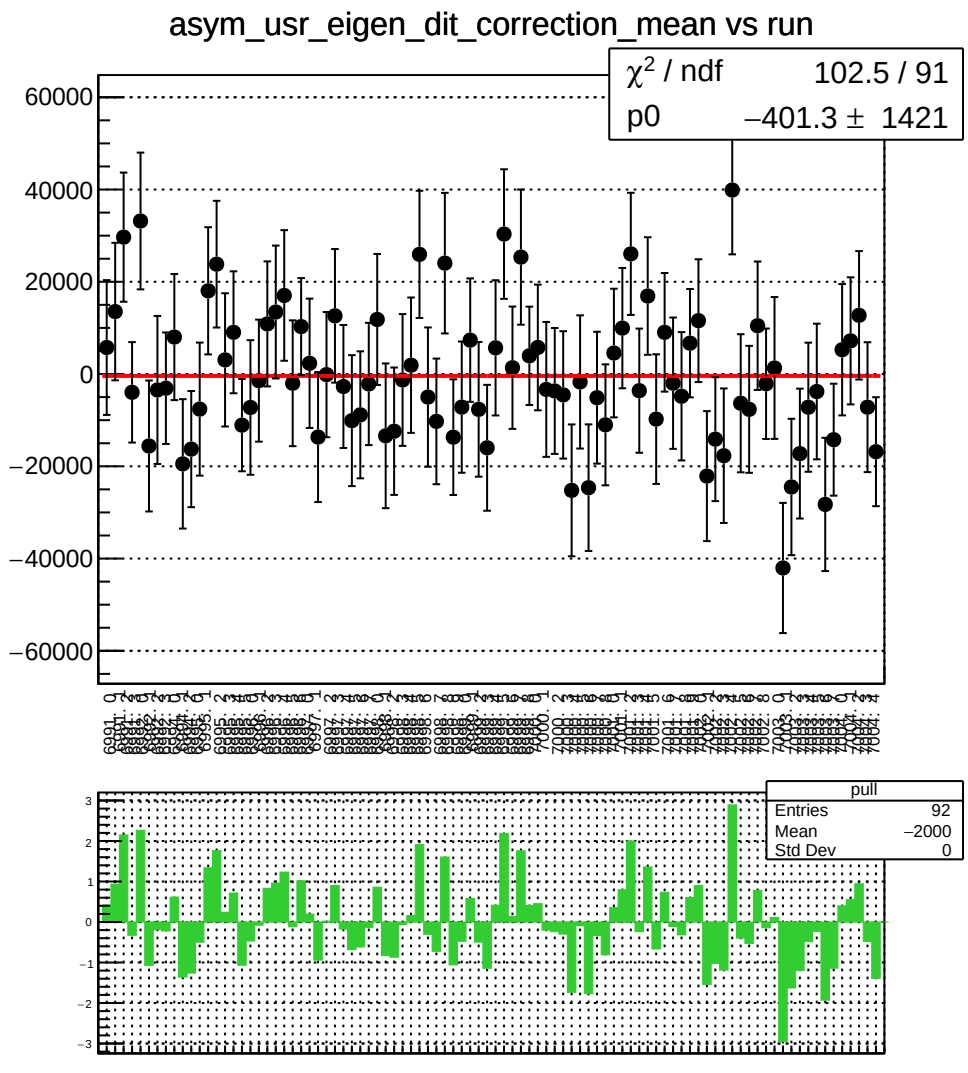

pull1D
Entries 92
Mean 0.003024
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

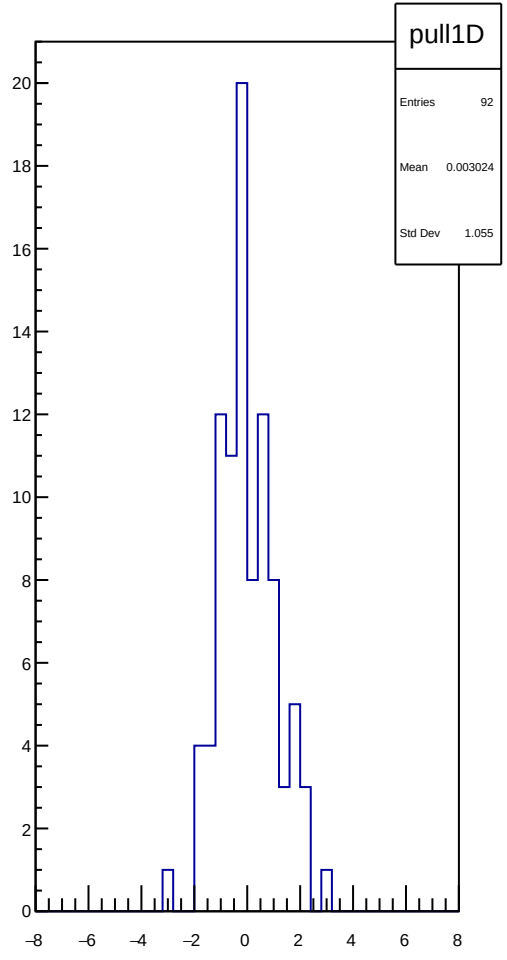

asym_usr_dit_correction_rms vs run
χ² / ndf 2821 / 91
p0 1334 ± 1.004
1550
1500
1450
1400
1350
1300
1250
1200

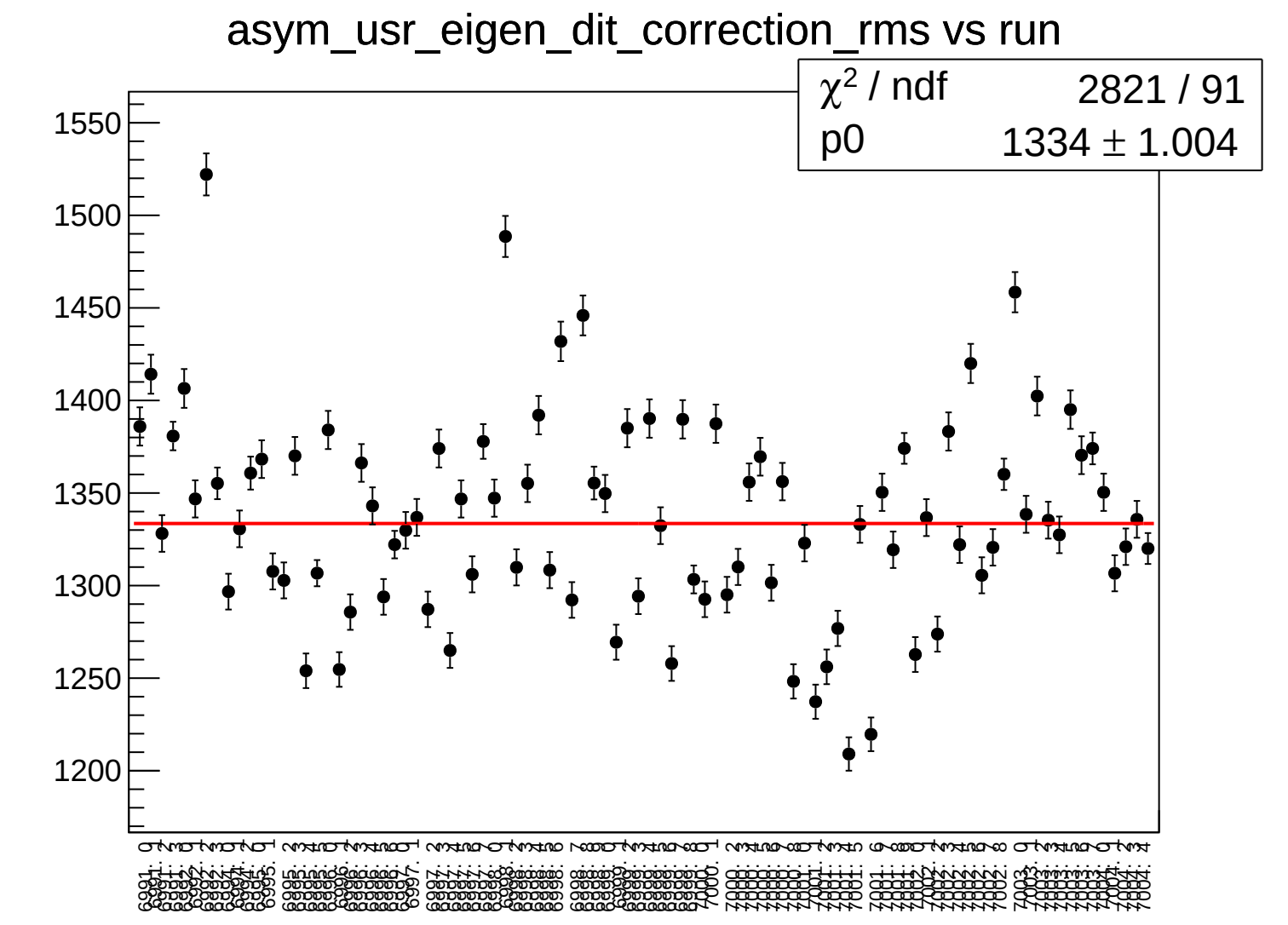

eigen_dit_asym_usr_mean vs run
χ² / ndf 78.43 / 91
p0 −1707 ± 1196
pull
Entries 92
Mean −3805
Std Dev 0

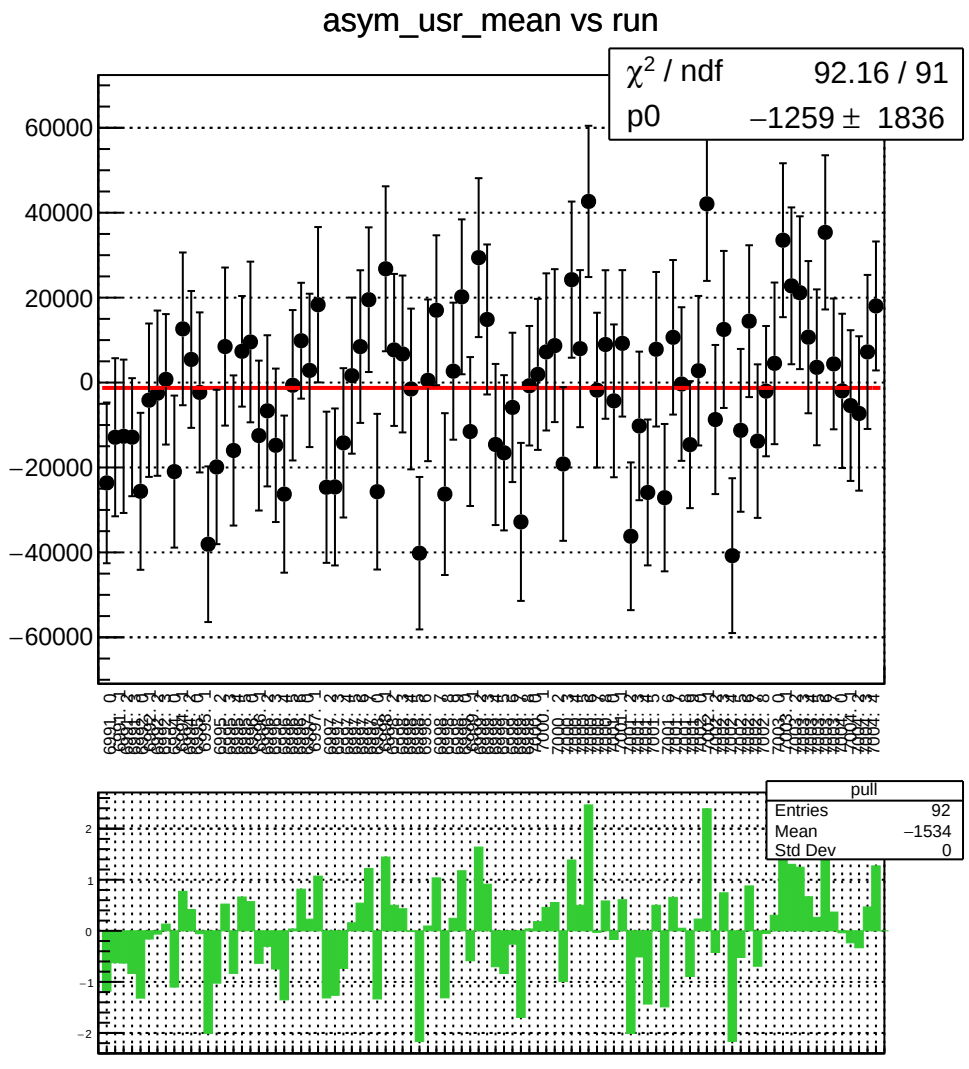

pull1D
Entries 92
Mean −0.000873
Std Dev 0.9233

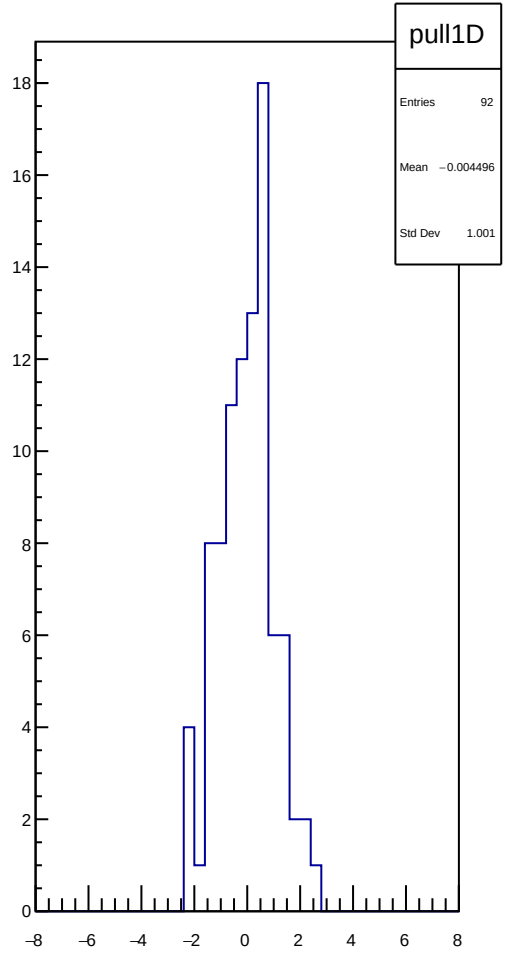

eigen_dit_asym_usr_rms vs run
χ² / ndf 328 / 91
p0 1123 ± 0.8455
1220
1200
1180
1160
1140
1120
1100
1080


asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 102.5 / 91
p0 −401.3 ± 1421
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2000
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 92
Mean 0.003024
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2821 / 91
p0 1334 ± 1.004
1550
1500
1450
1400
1350
1300
1250
1200


asym_usr_mean vs run
χ² / ndf 92.16 / 91
p0 −1259 ± 1836
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1534
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean −0.004496
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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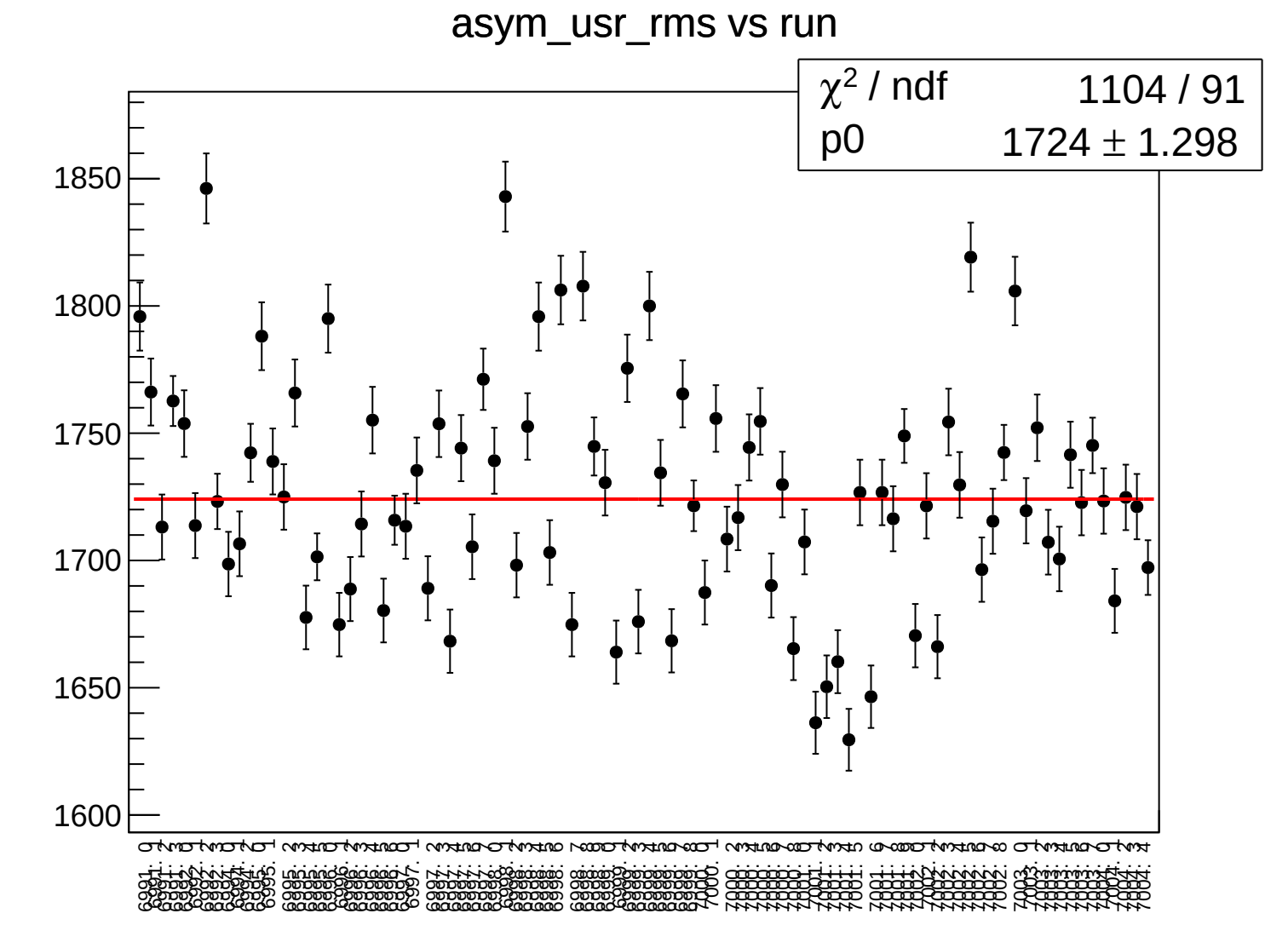
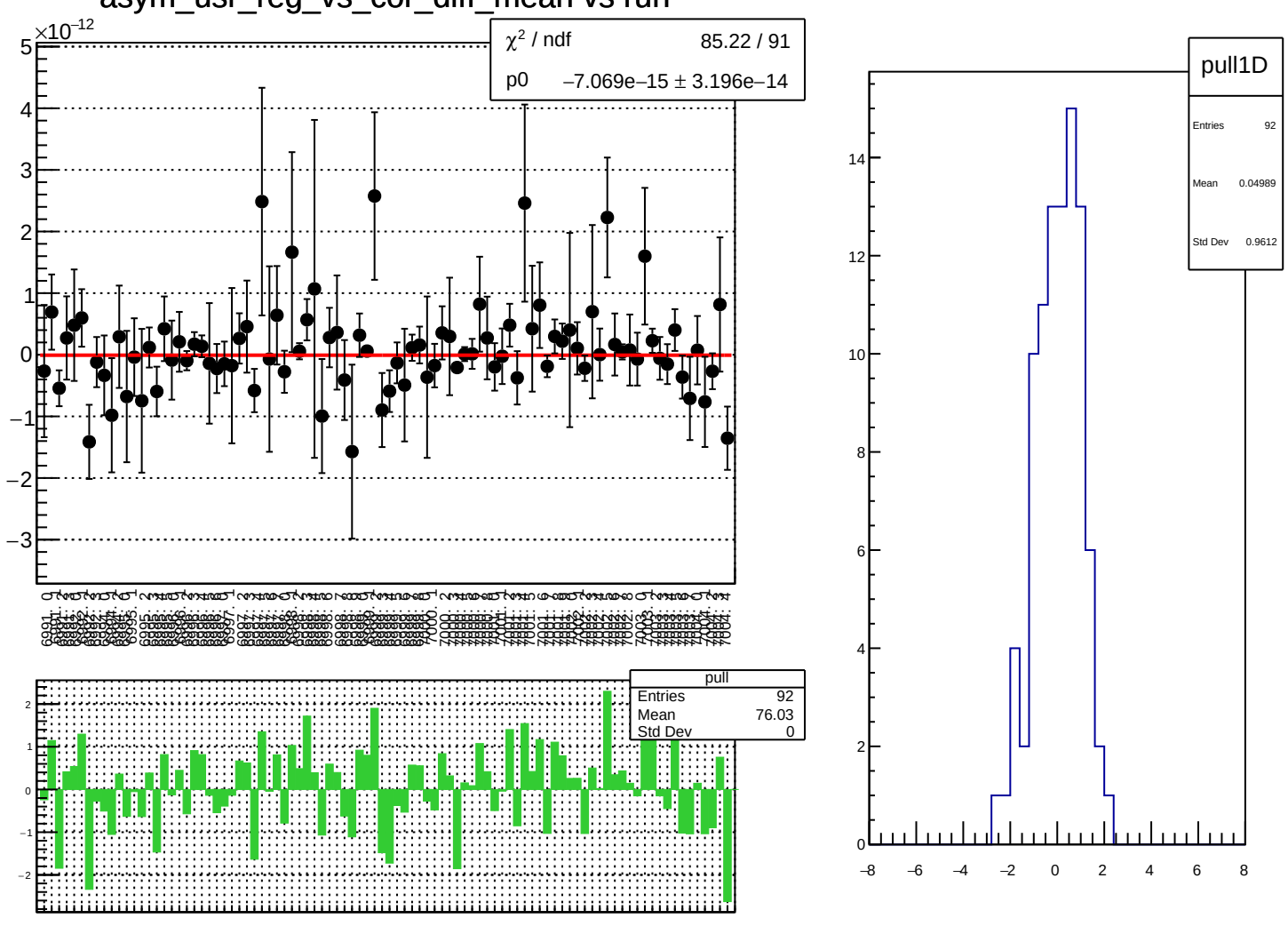
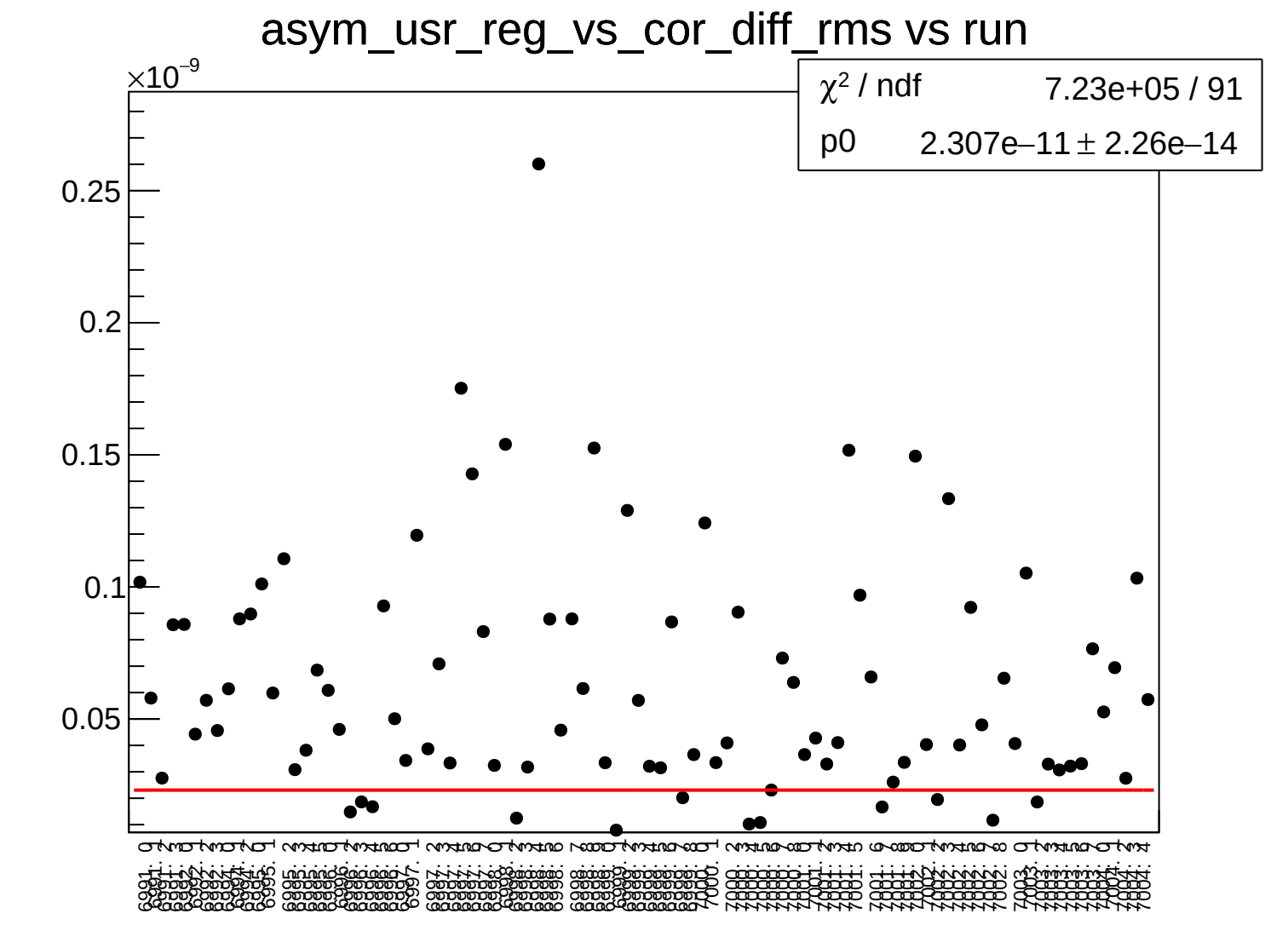
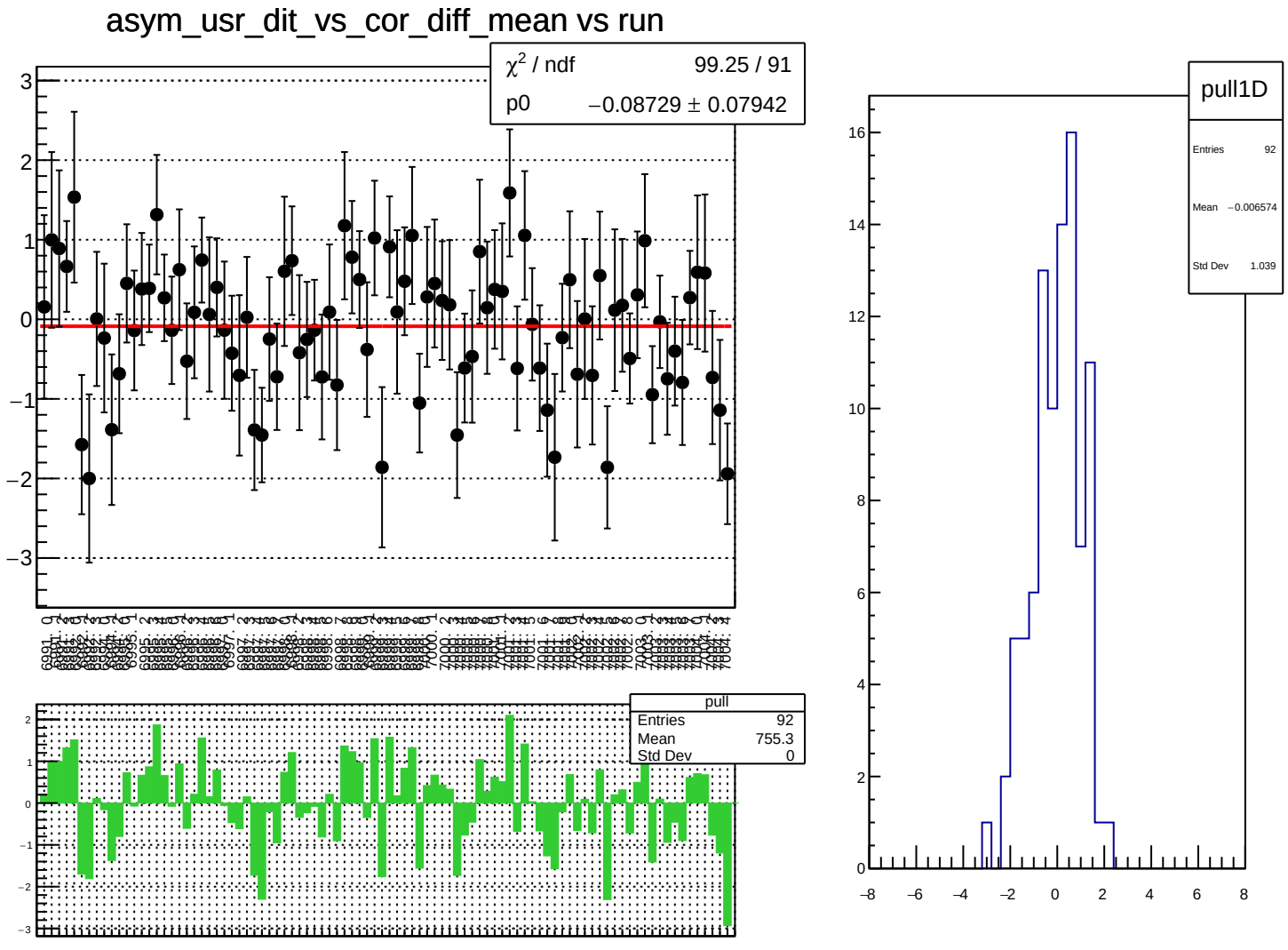
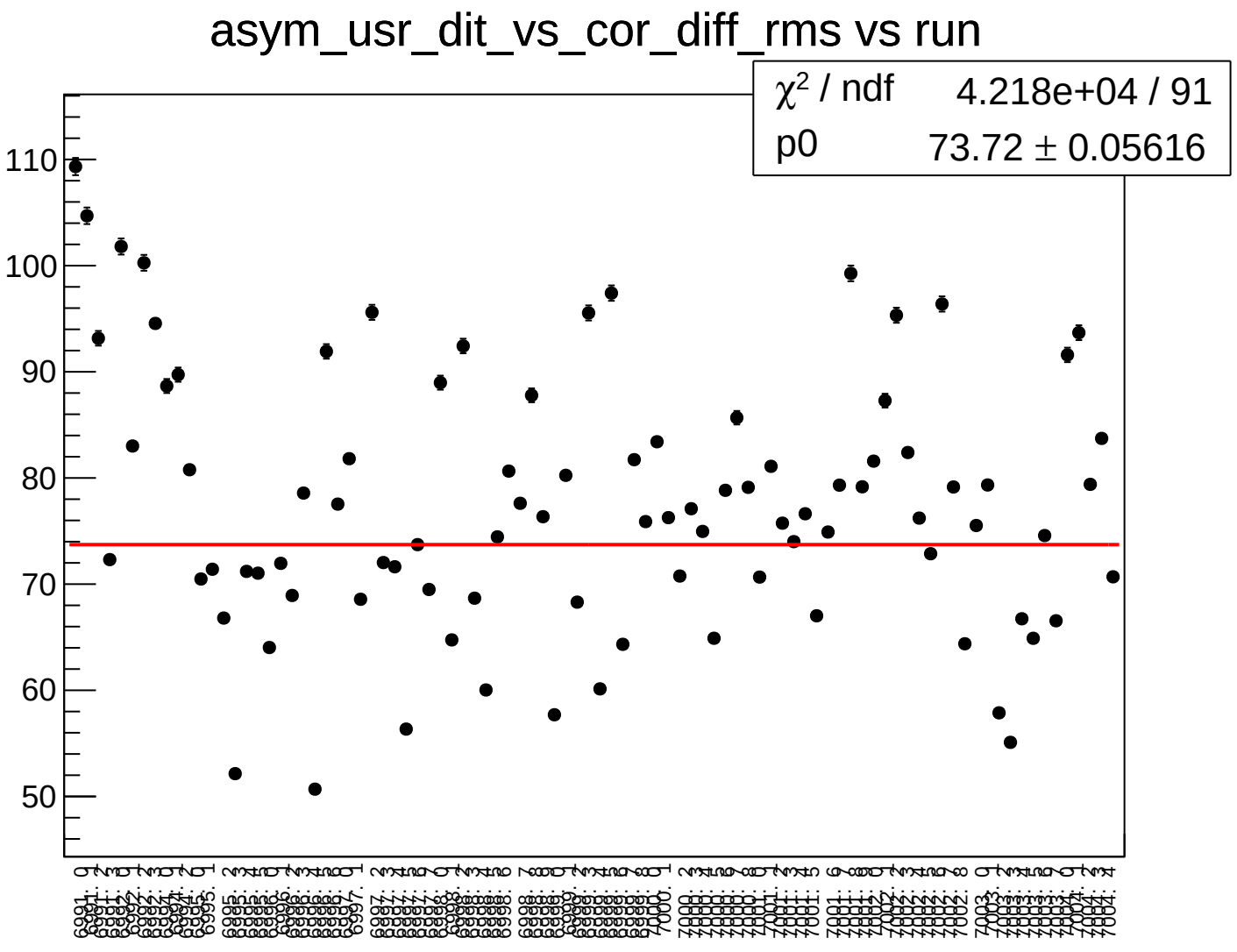
0
2
4
6
8

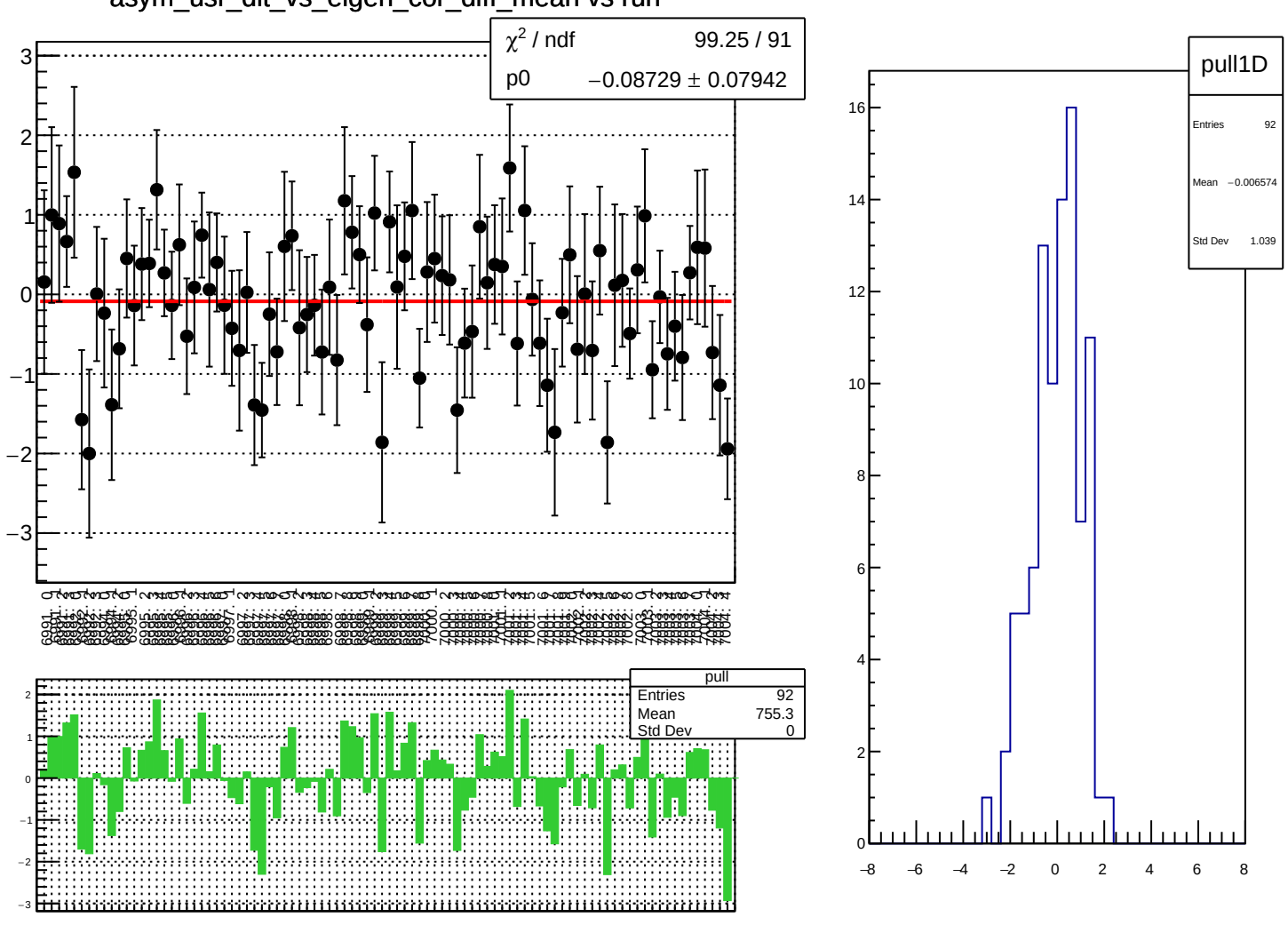

asym_usr_rms vs run
χ² / ndf 1104 / 91
p0 1724 ± 1.298
1850
1800
1750
1700
1650
1600

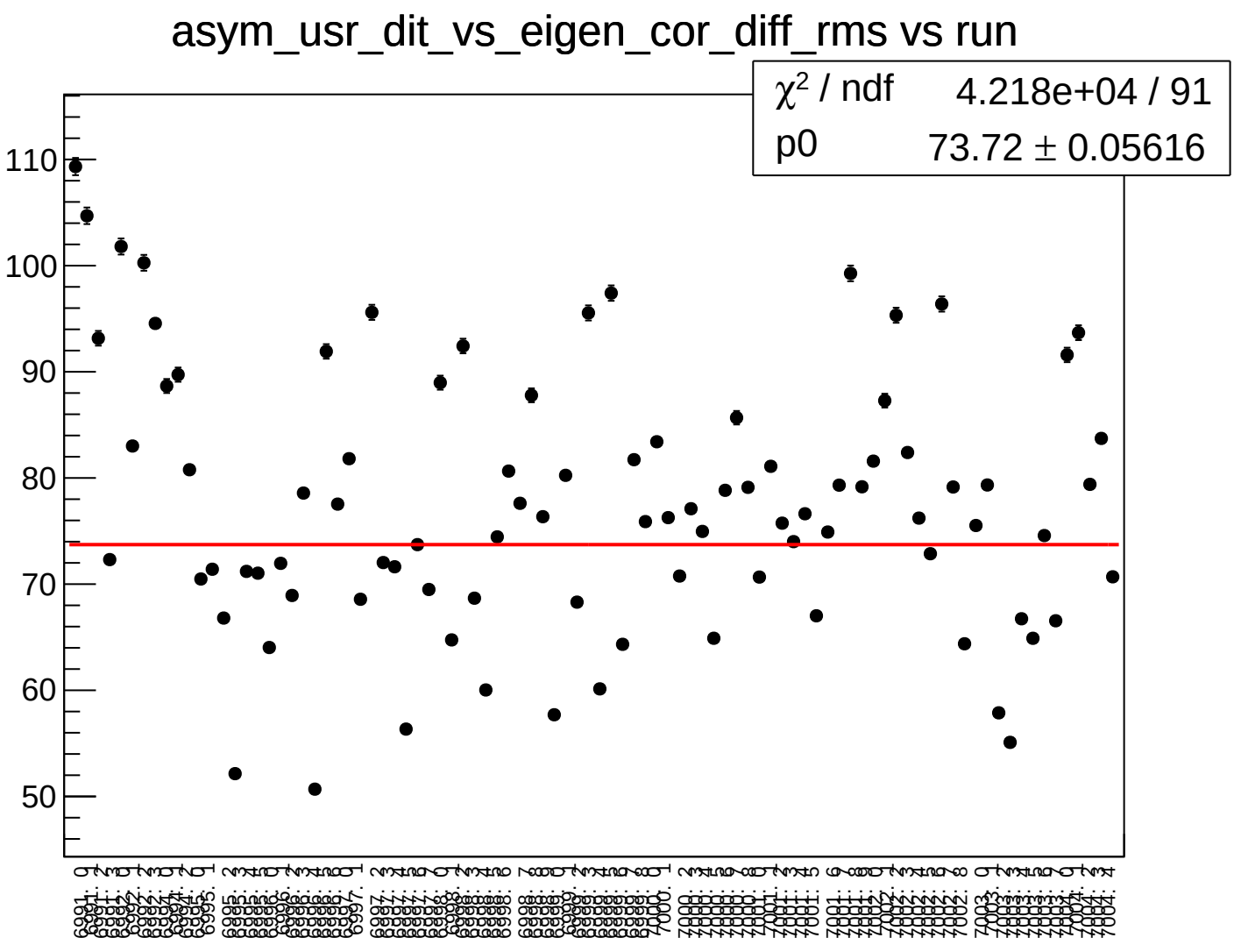

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.22 / 91
p0 −7.069e−15 ± 3.196e−14
pull
Entries 92
Mean 76.03
Std Dev 0
pull1D
Entries 92
Mean 0.04989
Std Dev 0.9612

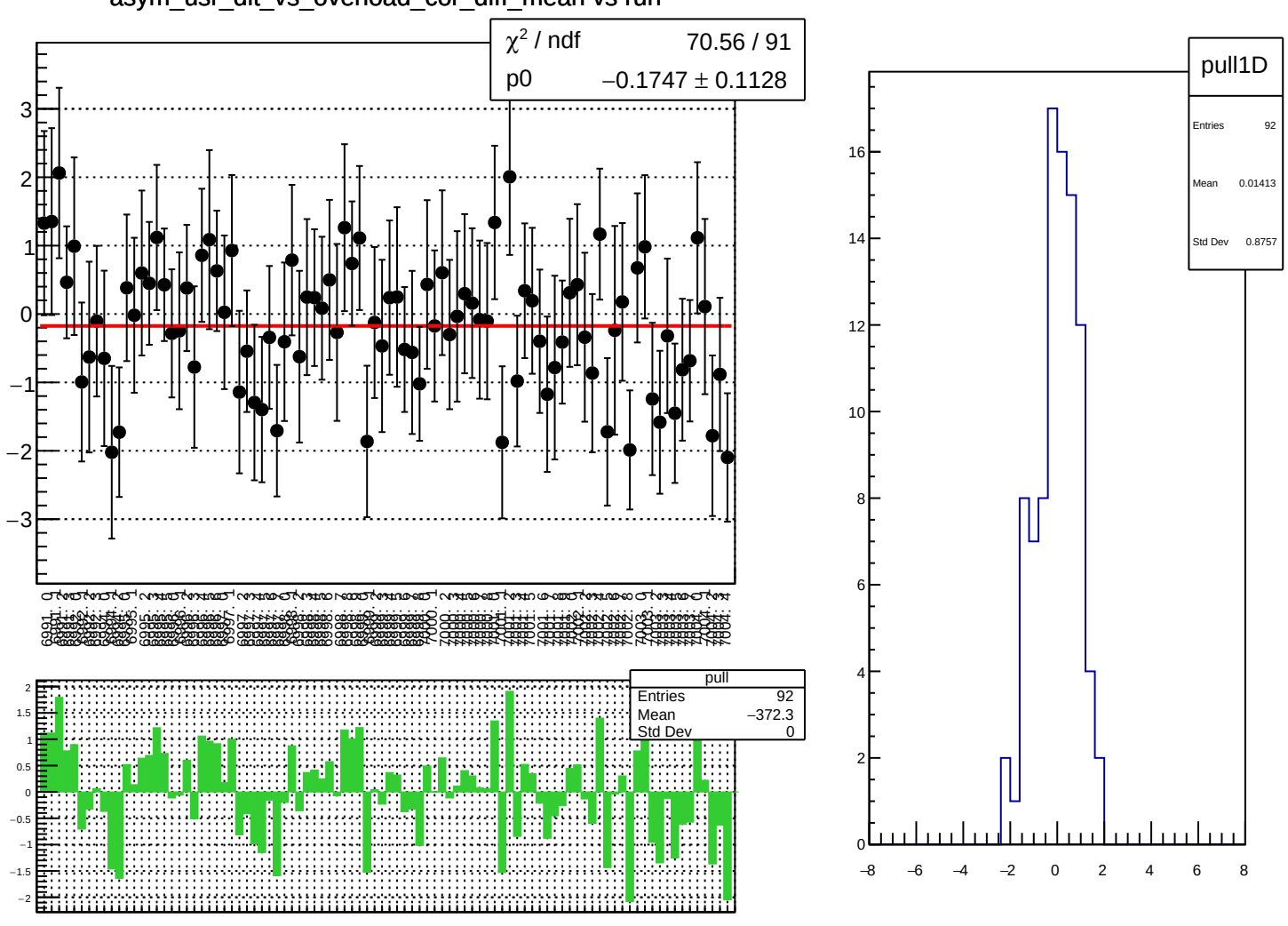

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.23e+05 / 91
p0 2.307e−11 ± 2.26e−14
0.25
0.2
0.15
0.1
0.05

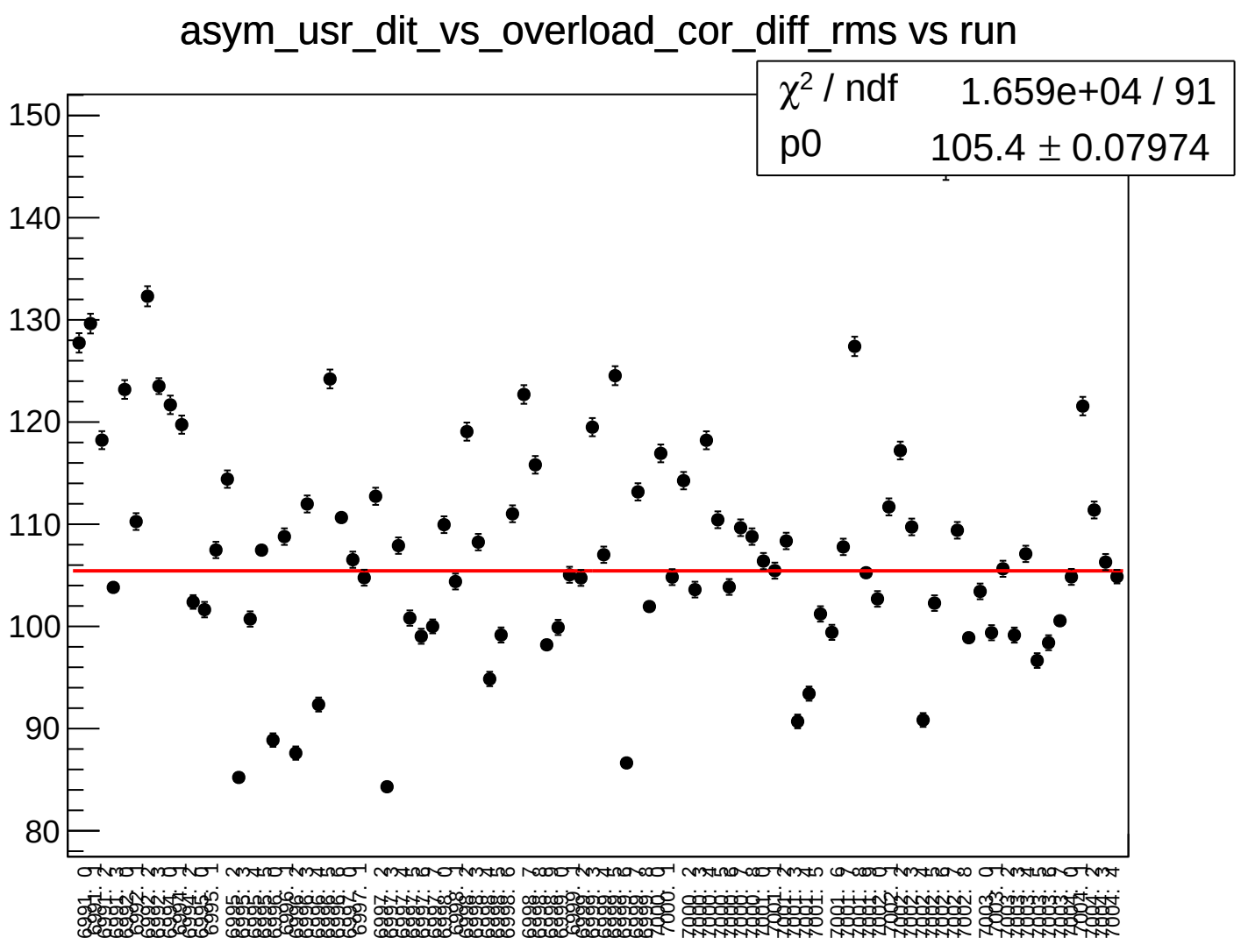

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 99.25 / 91
p0 −0.08729 ± 0.07942
pull
Entries 92
Mean 755.3
Std Dev 0
pull1D
Entries 92
Mean −0.006574
Std Dev 1.039

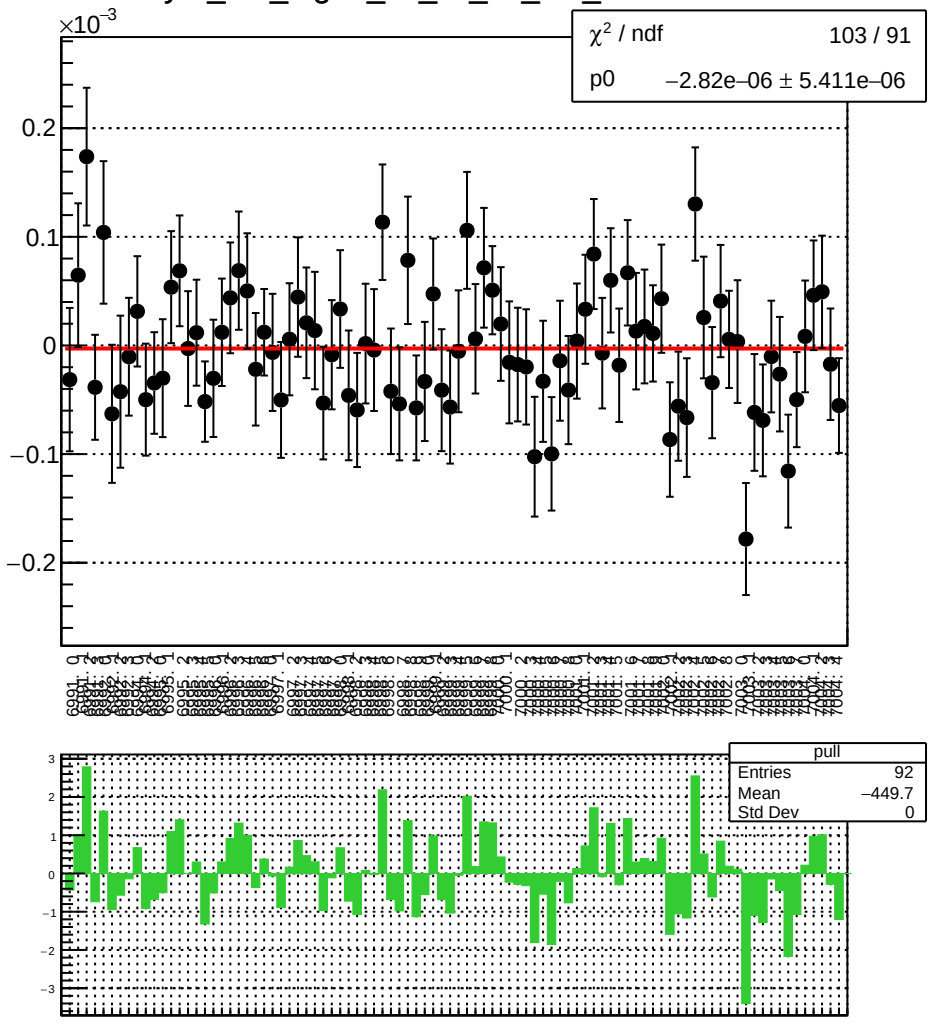

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 4.218e+04 / 91
p0 73.72 ± 0.05616
110
100
90
80
70
60
50

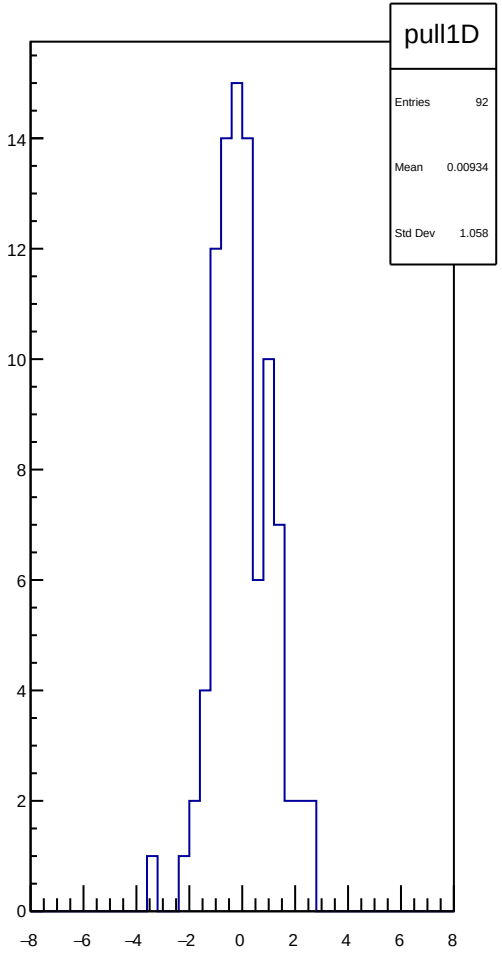

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.25 / 91
p0 −0.08729 ± 0.07942
pull
Entries 92
Mean 755.3
Std Dev 0
pull1D
Entries 92
Mean −0.006574
Std Dev 1.039

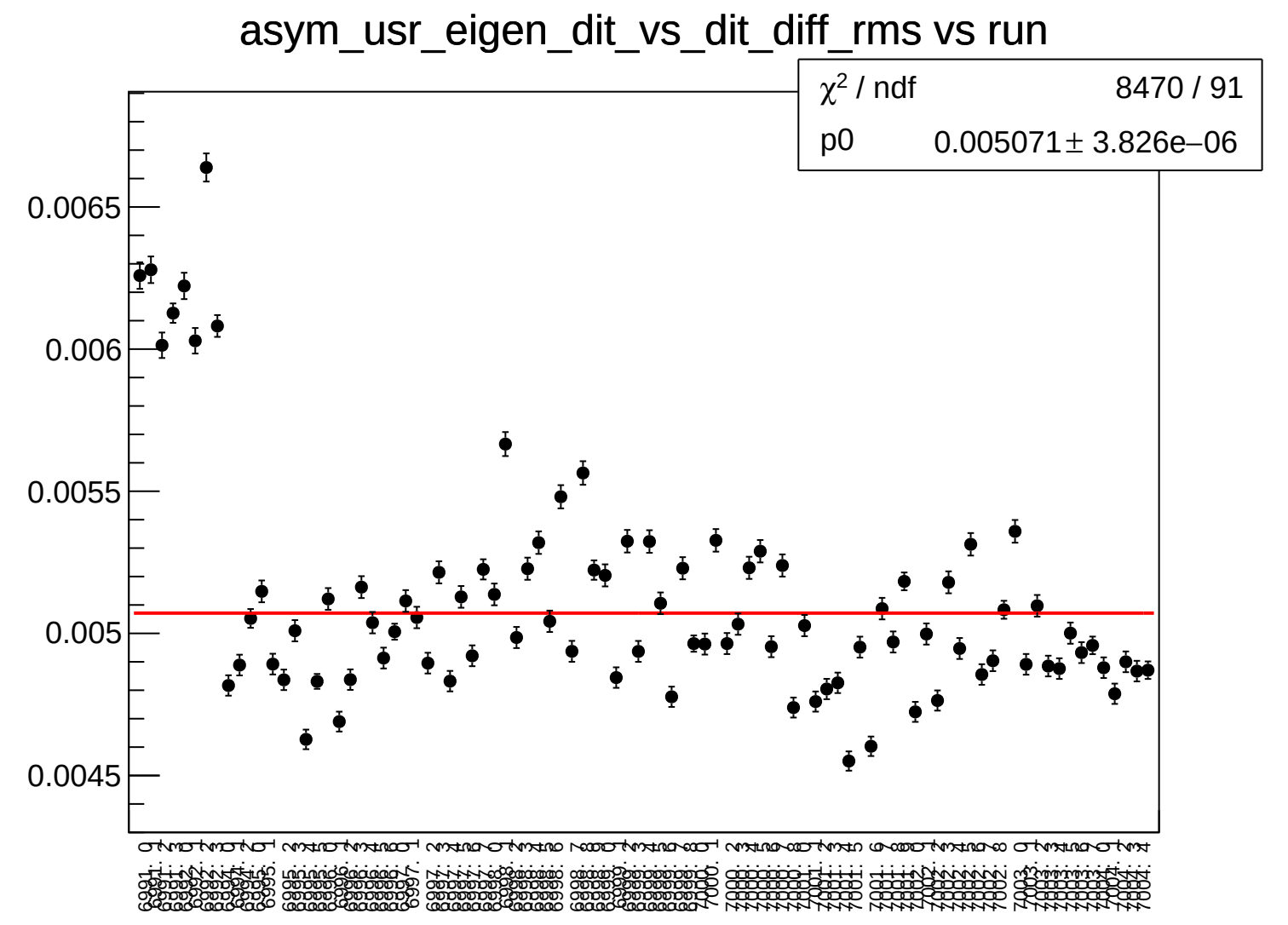

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.218e+04 / 91
p0 73.72 ± 0.05616
110
100
90
80
70
60
50

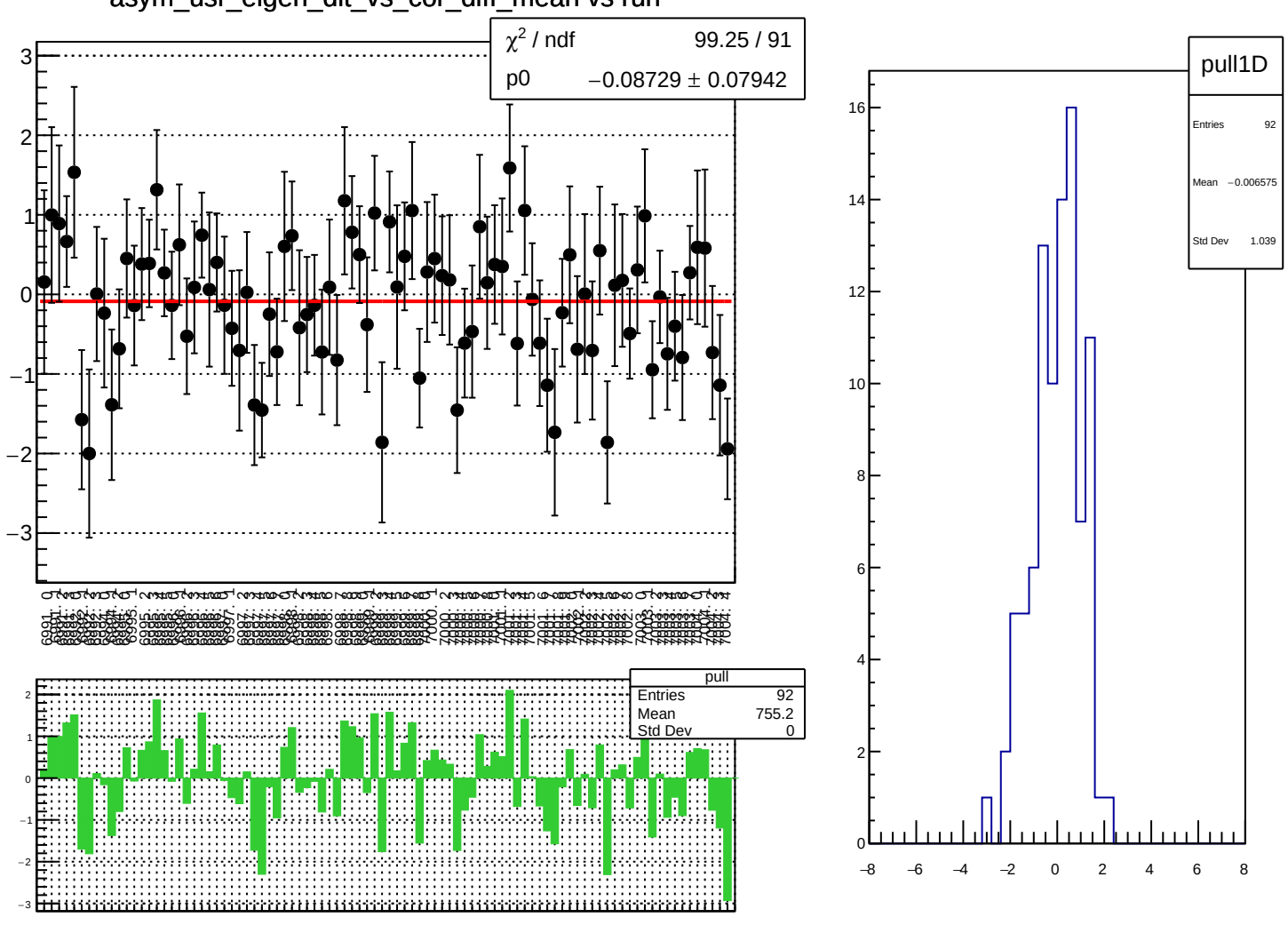

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 70.56 / 91
p0 −0.1747 ± 0.1128
pull
Entries 92
Mean −372.3
Std Dev 0
pull1D
Entries 92
Mean 0.01413
Std Dev 0.8757

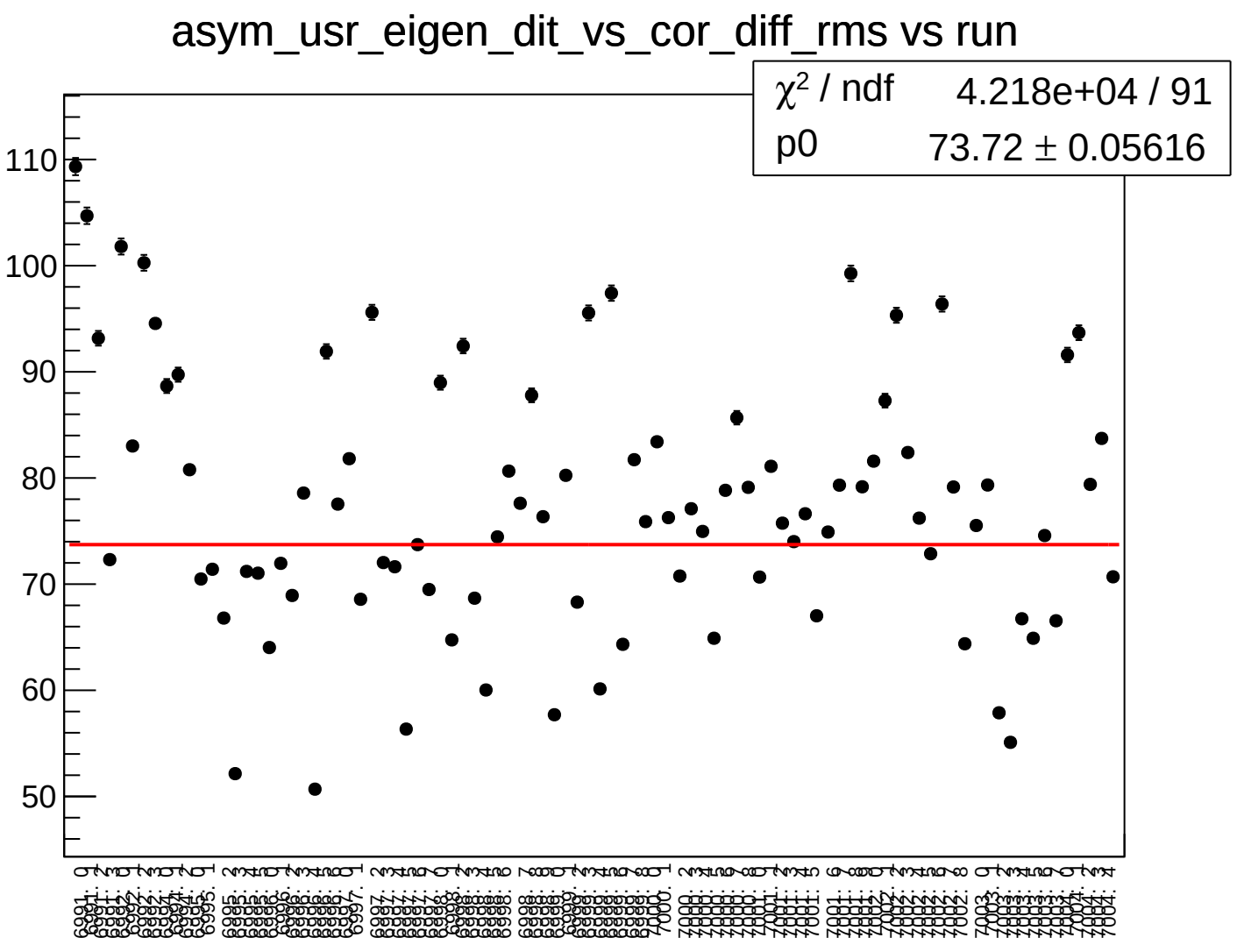

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.659e+04 / 91
p0 105.4 ± 0.07974
150
140
130
120
110
100
90
80

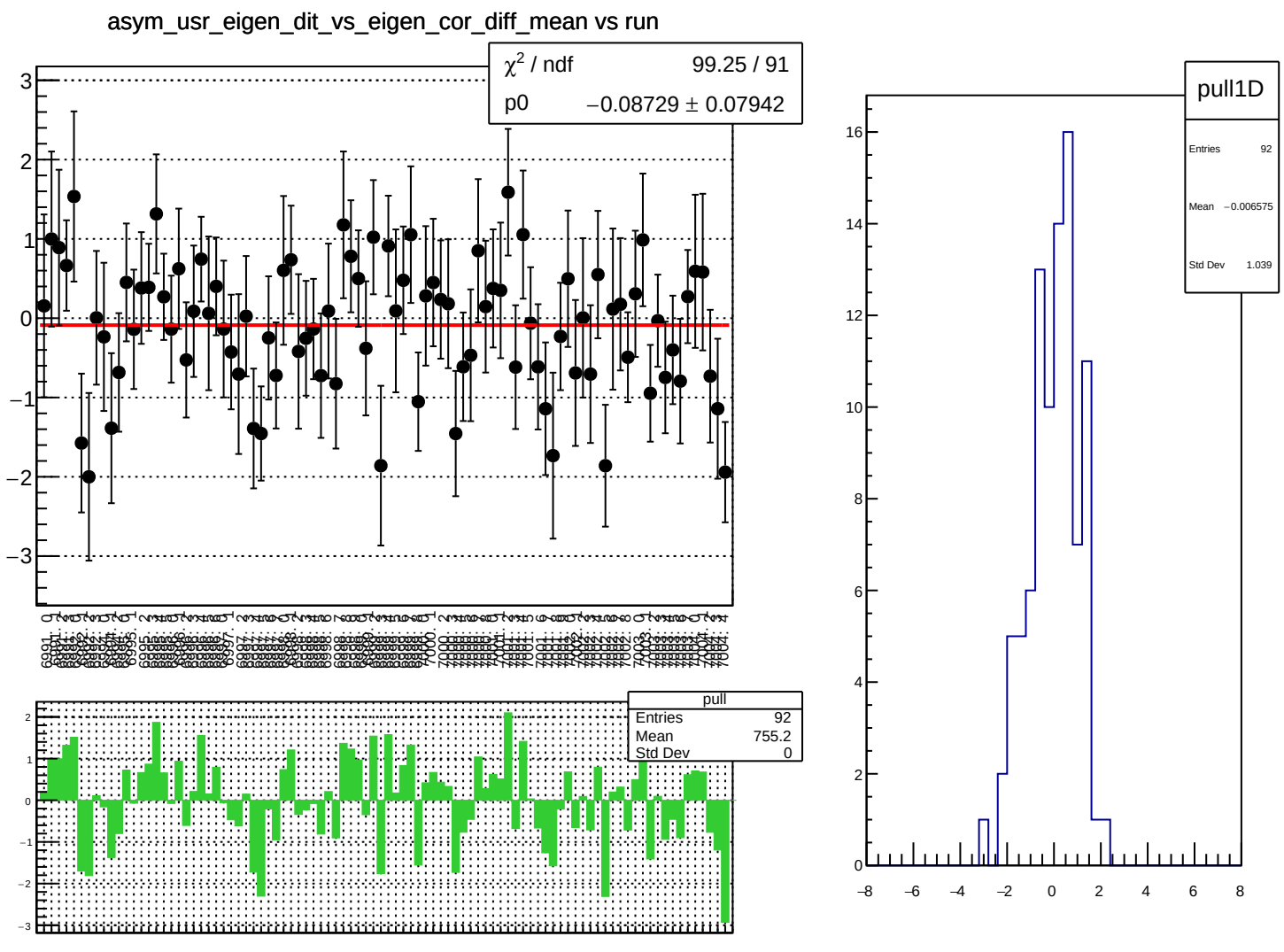

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103 / 91
p0 −2.82e−06 ± 5.411e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean −449.7
Std Dev 0
3
2
1
0
−1
−2
−3

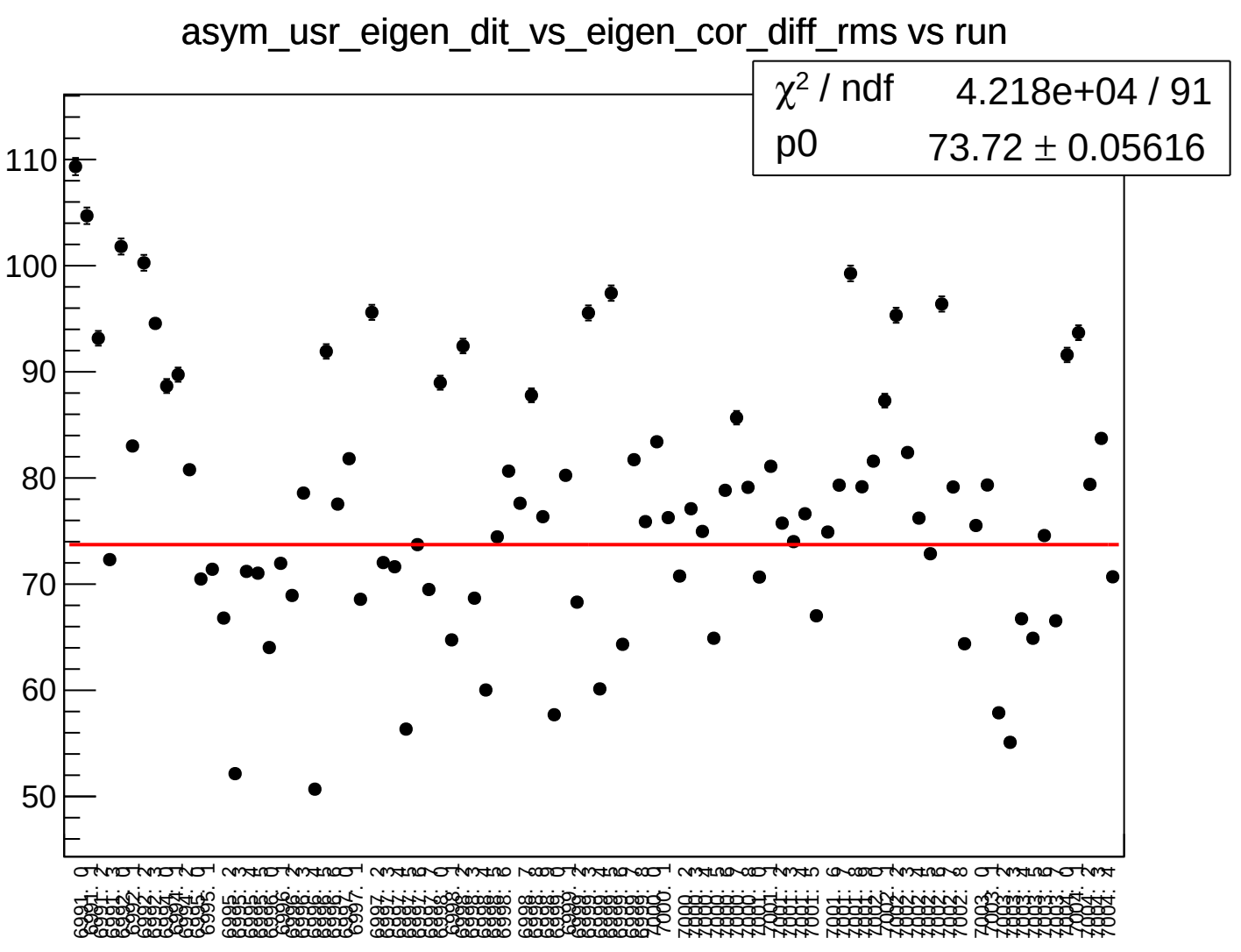

pull1D
Entries 92
Mean 0.00934
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

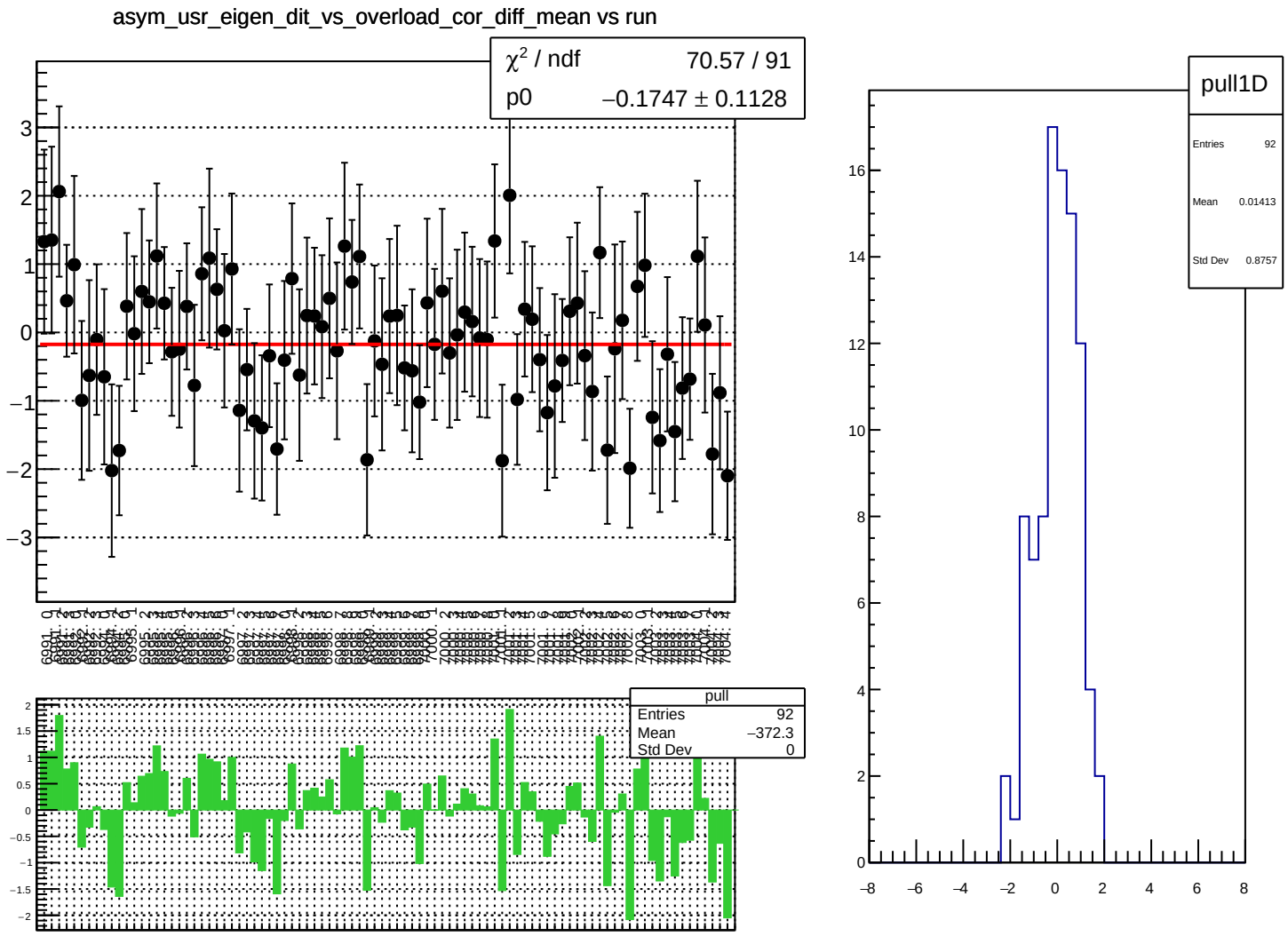

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8470 / 91
p0 0.005071 ± 3.826e−06
0.0065
0.006
0.0055
0.005
0.0045

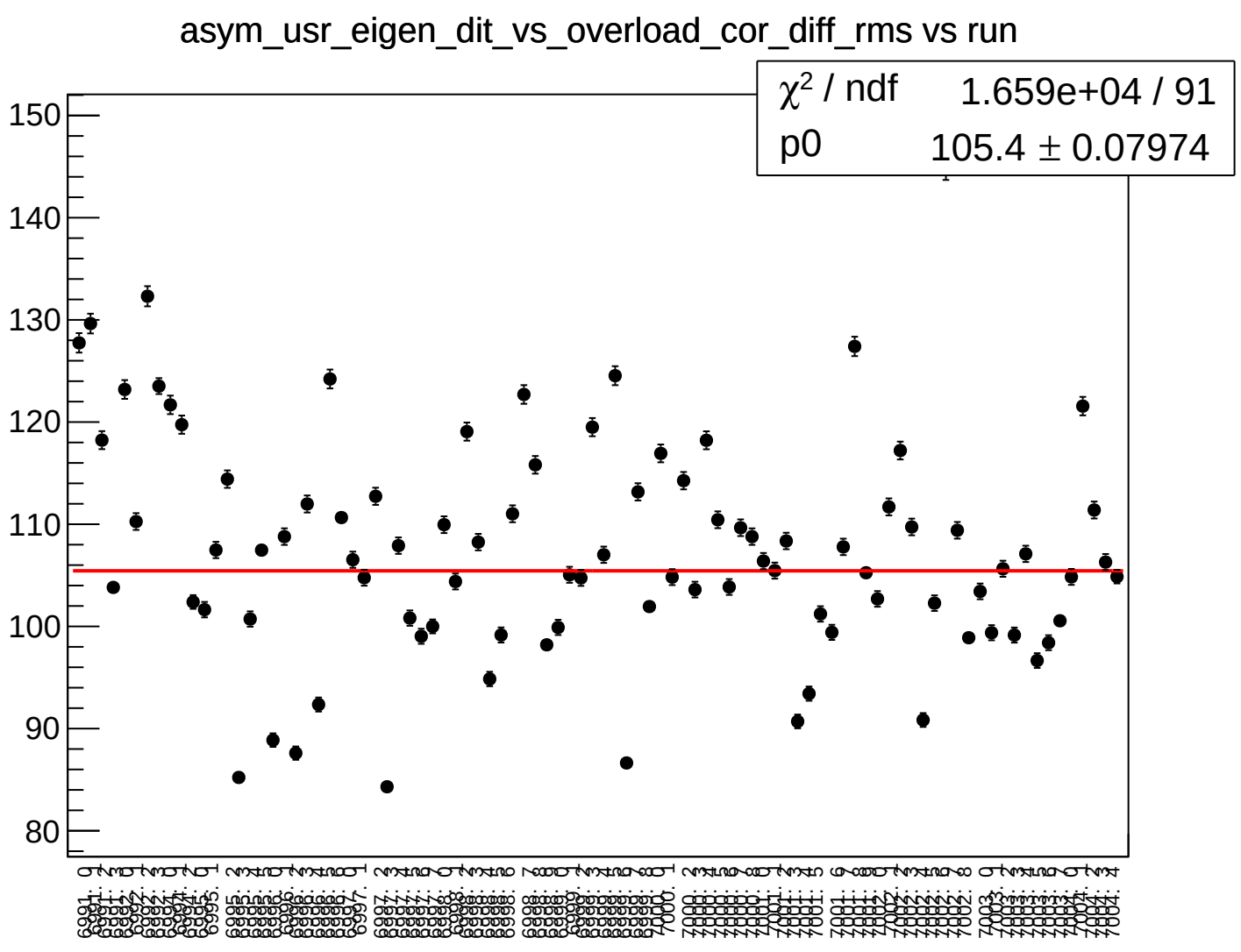

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.25 / 91
p0 −0.08729 ± 0.07942
pull
Entries 92
Mean 755.2
Std Dev 0
pull1D
Entries 92
Mean −0.006575
Std Dev 1.039

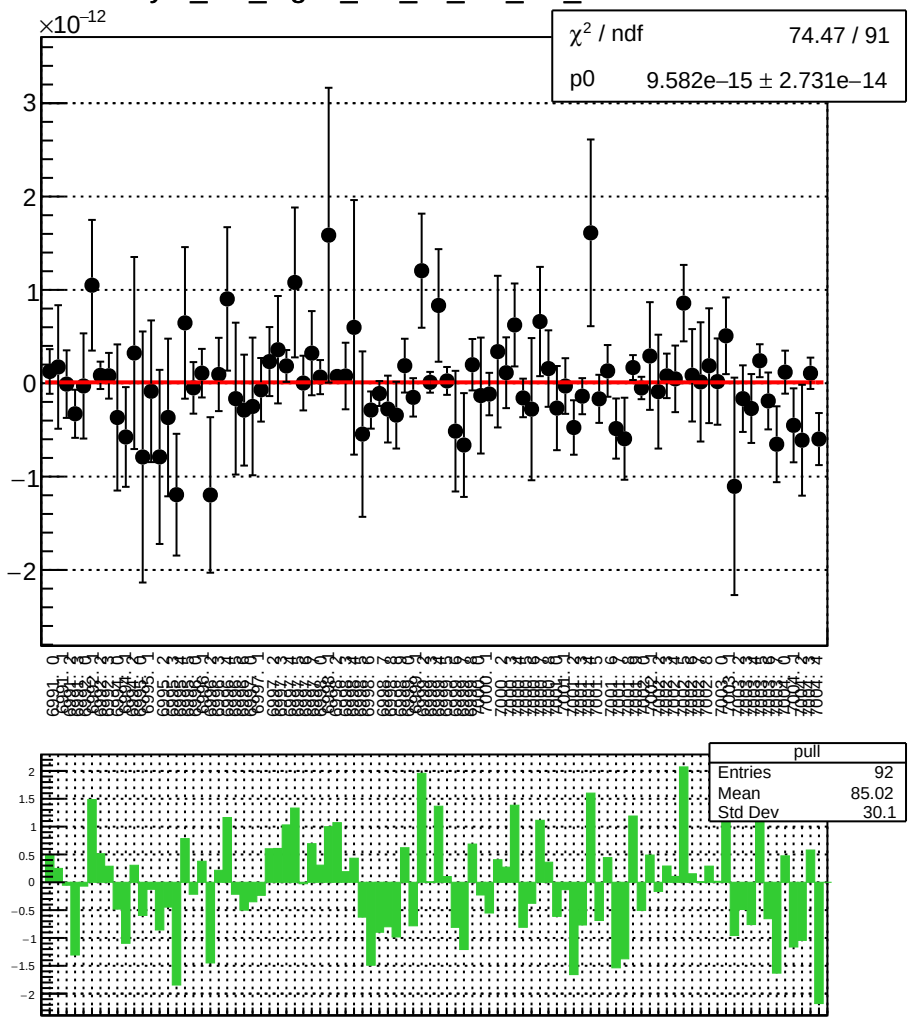

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.218e+04 / 91
p0 73.72 ± 0.05616
110
100
90
80
70
60
50

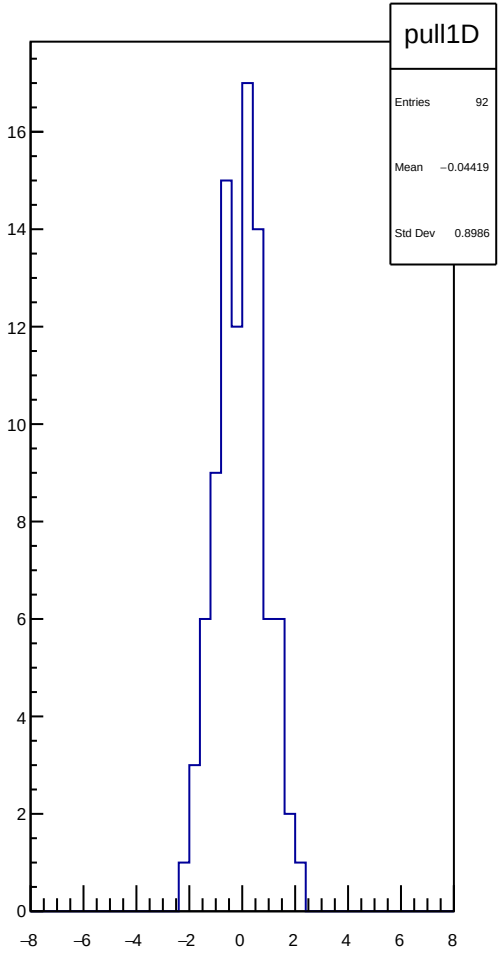

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.25 / 91
p0 −0.08729 ± 0.07942
pull
Entries 92
Mean 755.2
Std Dev 0
pull1D
Entries 92
Mean −0.006575
Std Dev 1.039

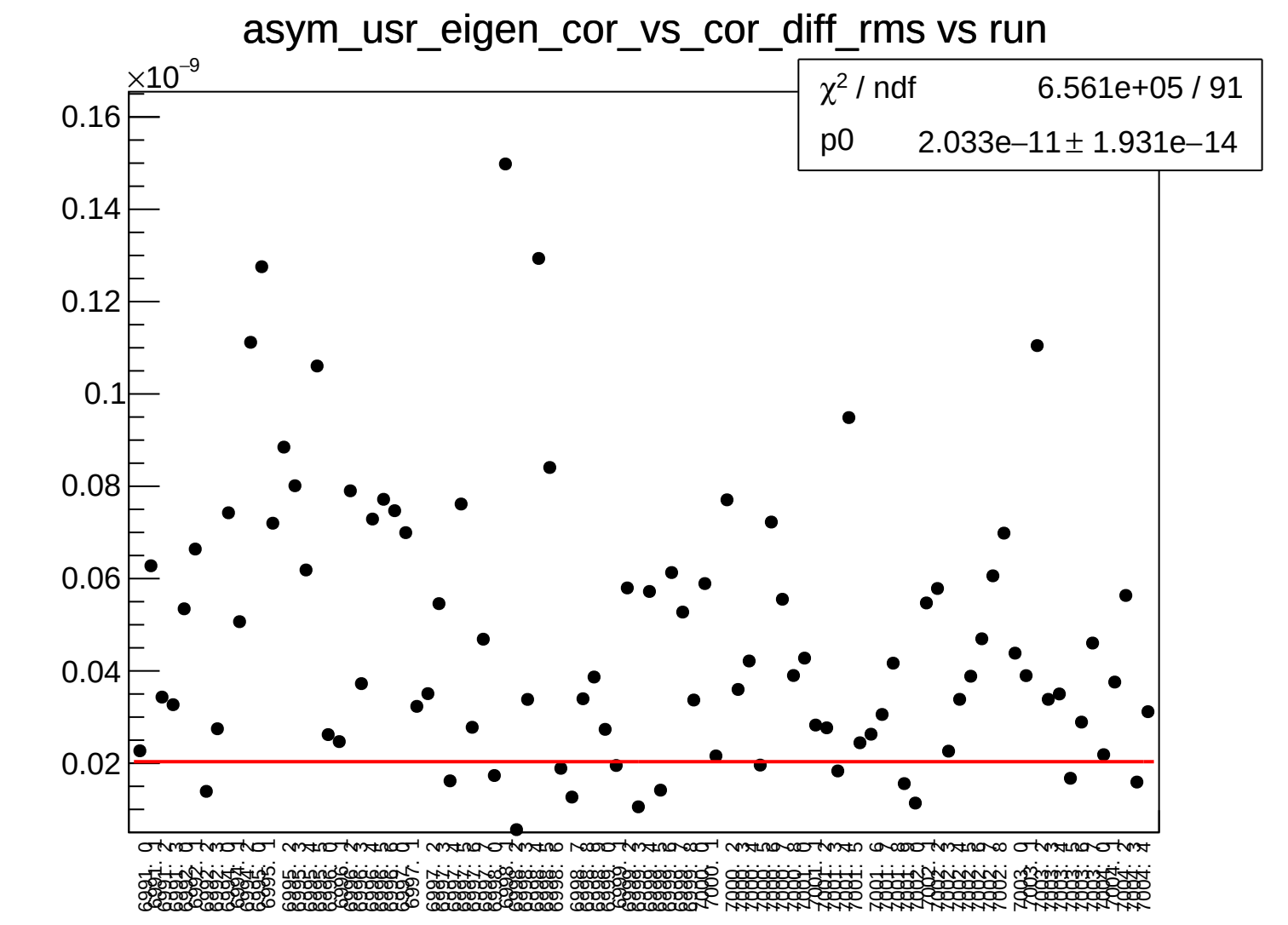

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.218e+04 / 91
p0 73.72 ± 0.05616
110
100
90
80
70
60
50

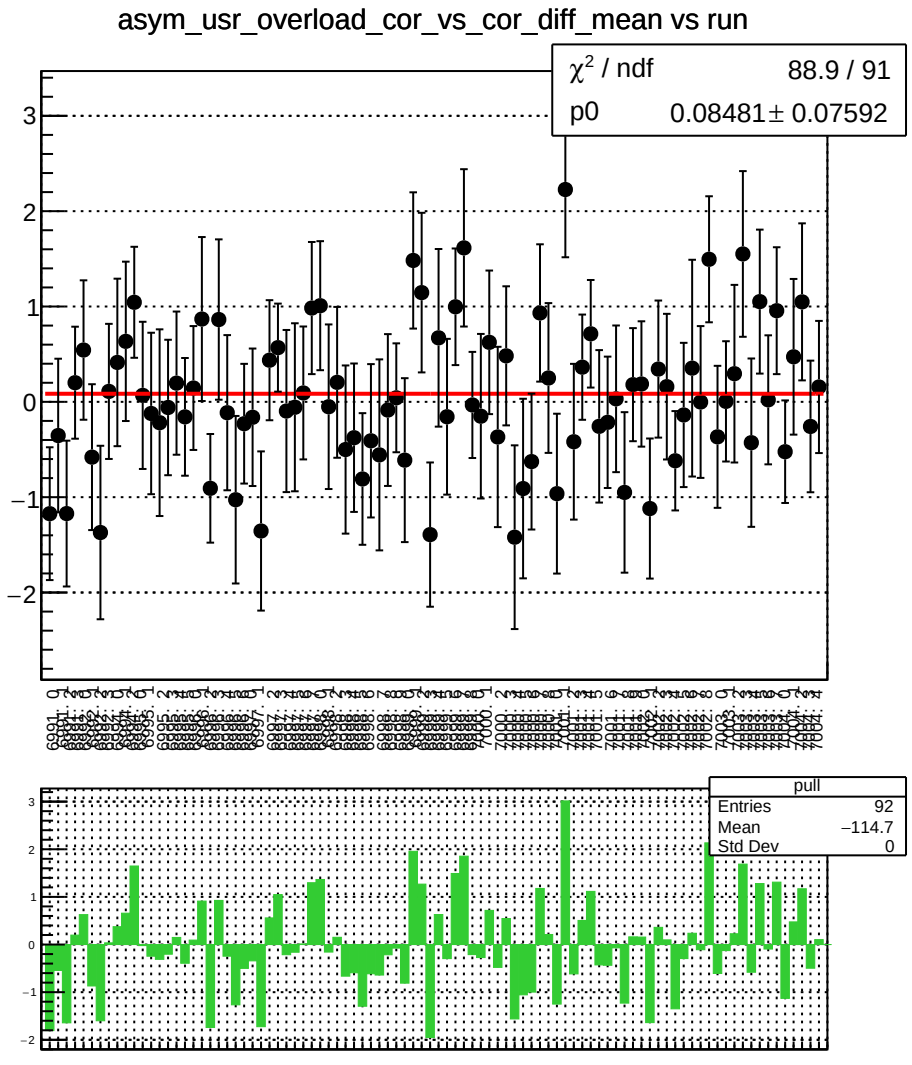

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 70.57 / 91
p0 −0.1747 ± 0.1128
pull
Entries 92
Mean −372.3
Std Dev 0
pull1D
Entries 92
Mean 0.01413
Std Dev 0.8757

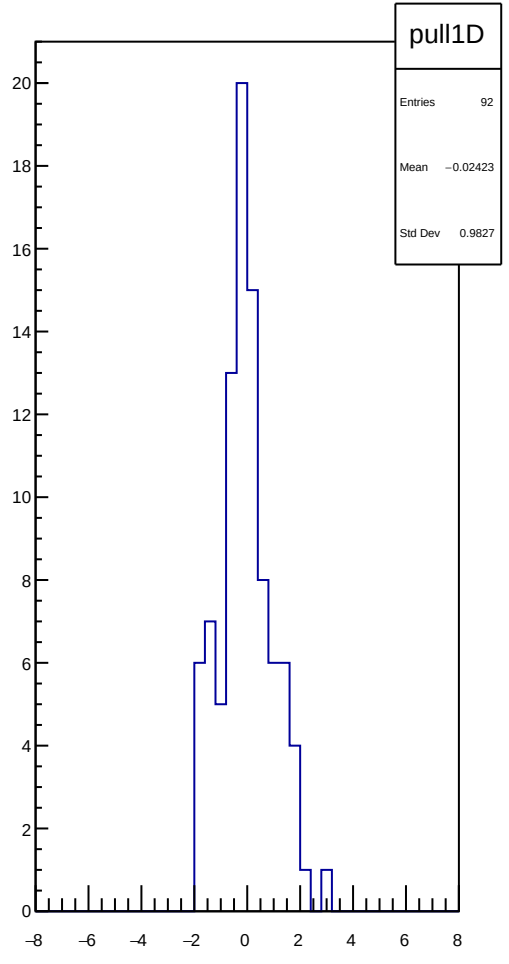

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.659e+04 / 91
p0 105.4 ± 0.07974
150
140
130
120
110
100
90
80

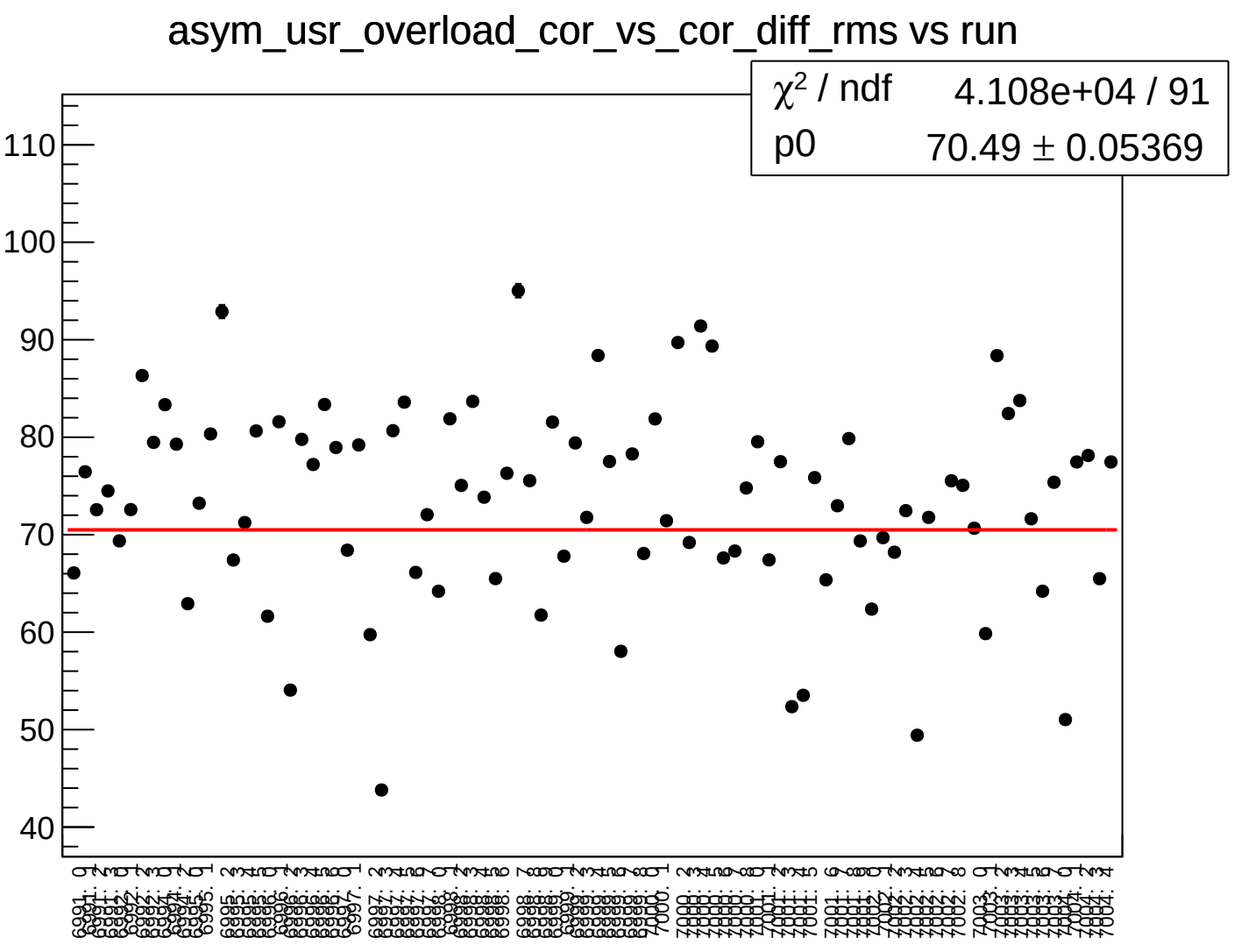

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.47 / 91
p0 9.582e−15 ± 2.731e−14
pull
Entries 92
Mean 85.02
Std Dev 30.1

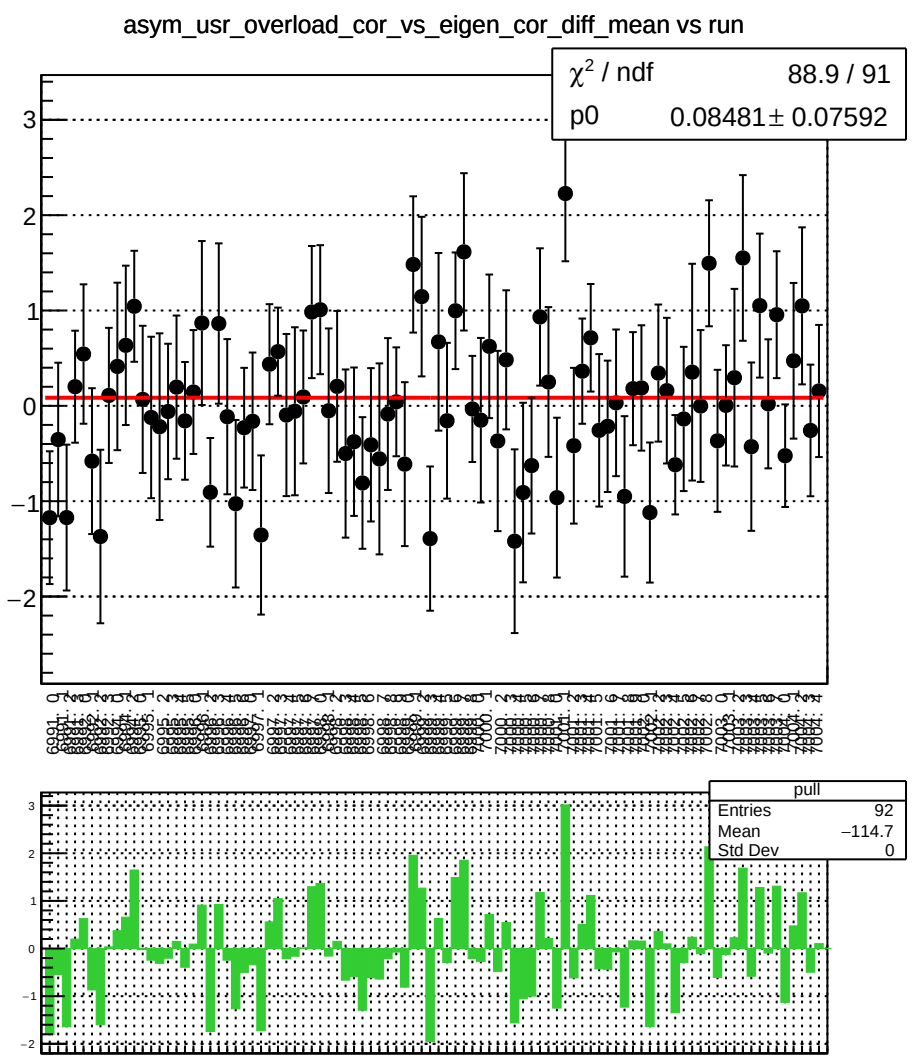

pull1D
Entries 92
Mean −0.04419
Std Dev 0.8986

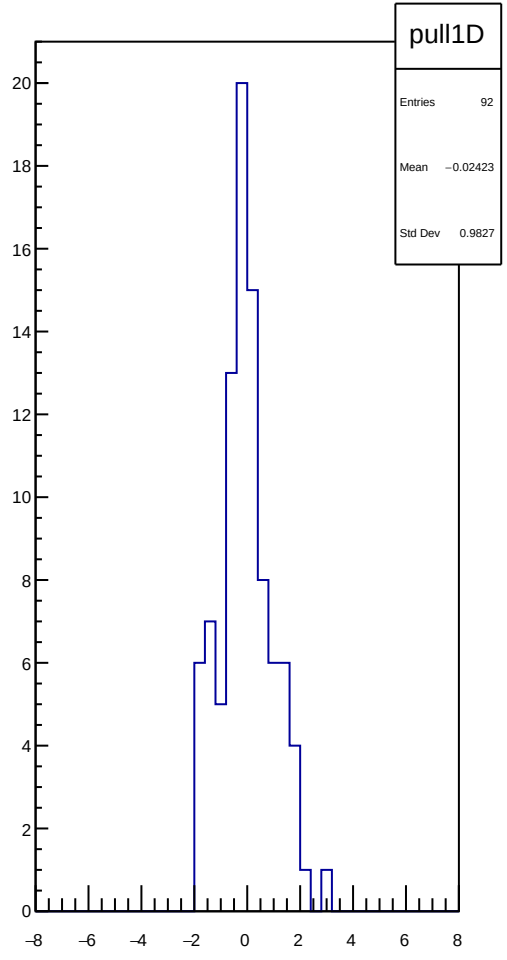

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.561e+05 / 91
p0 2.033e−11 ± 1.931e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

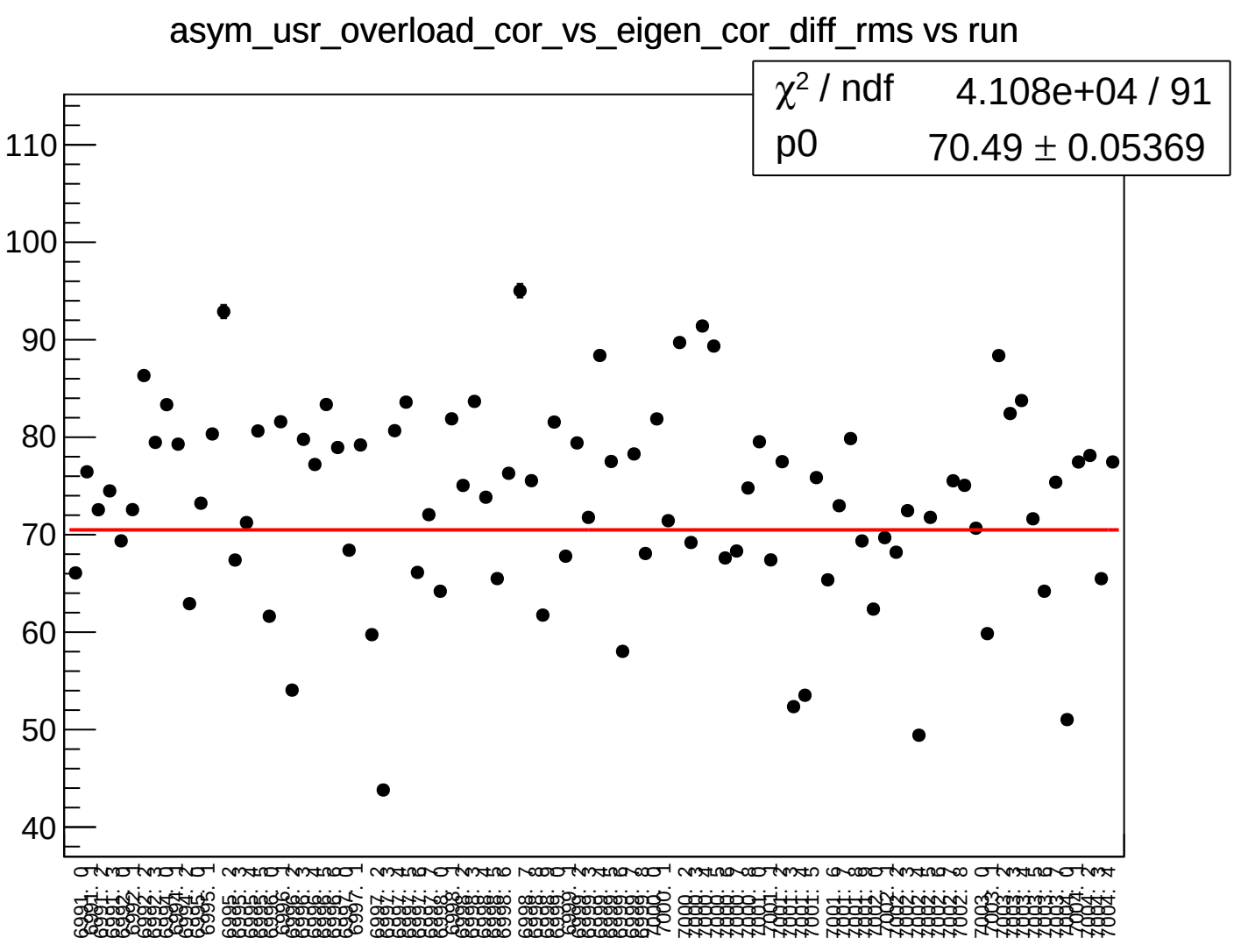

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 88.9 / 91
p0 0.08481 ± 0.07592
pull
Entries 92
Mean −114.7
Std Dev 0

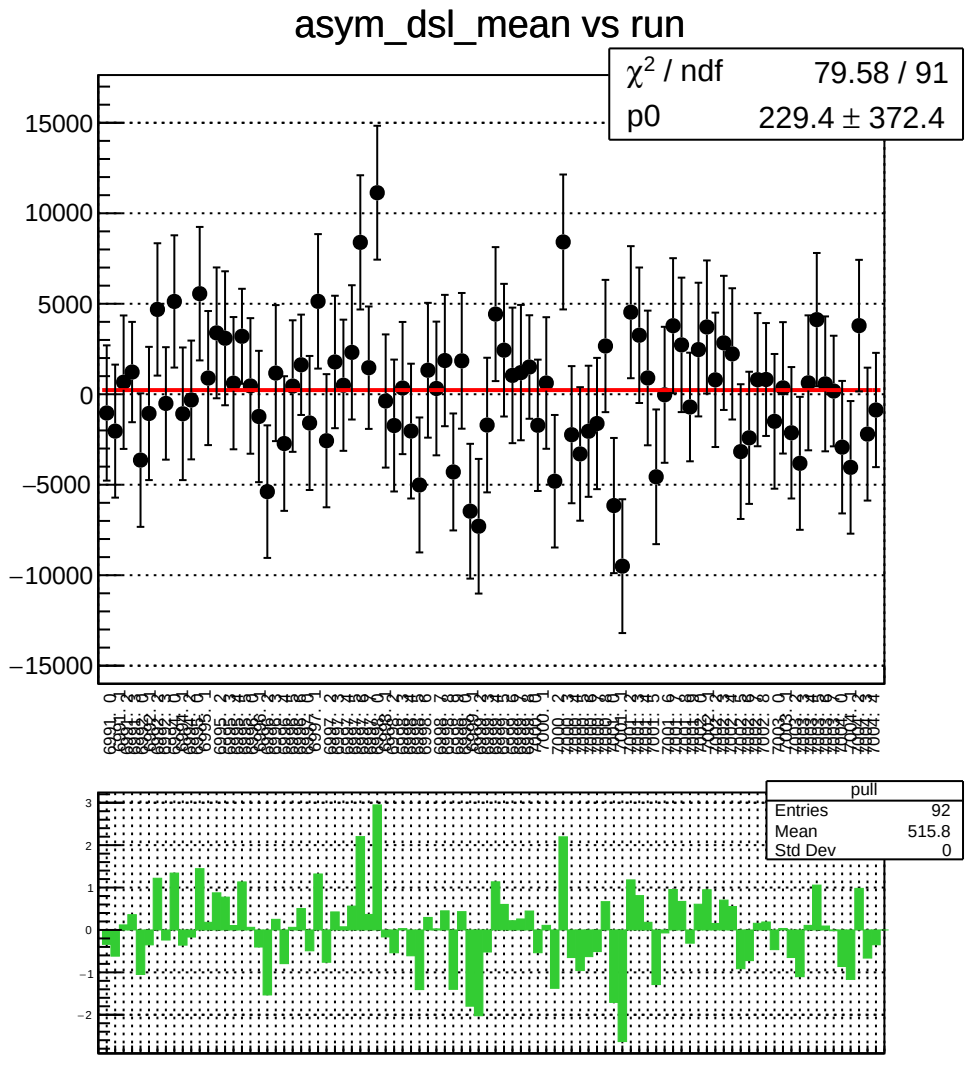

pull1D
Entries 92
Mean −0.02423
Std Dev 0.9827

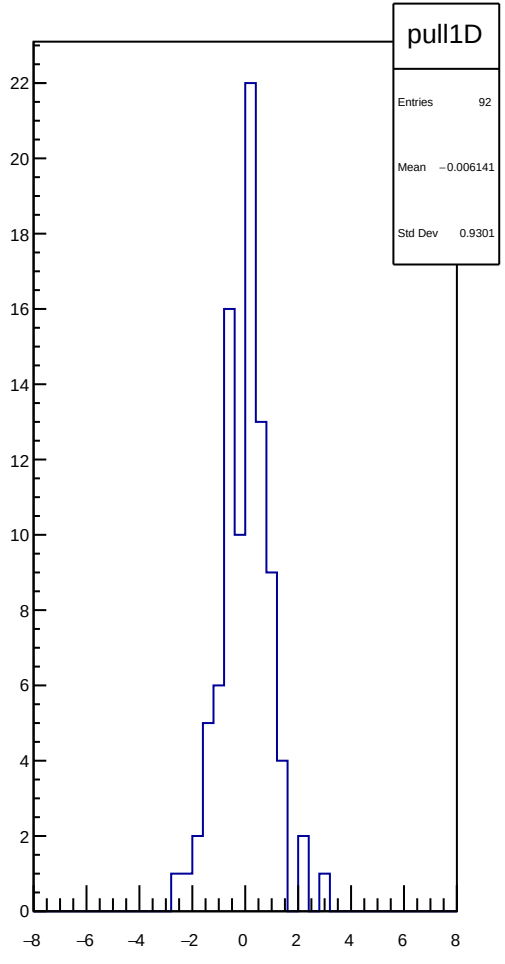

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 4.108e+04 / 91
p0 70.49 ± 0.05369
110
100
90
80
70
60
50
40

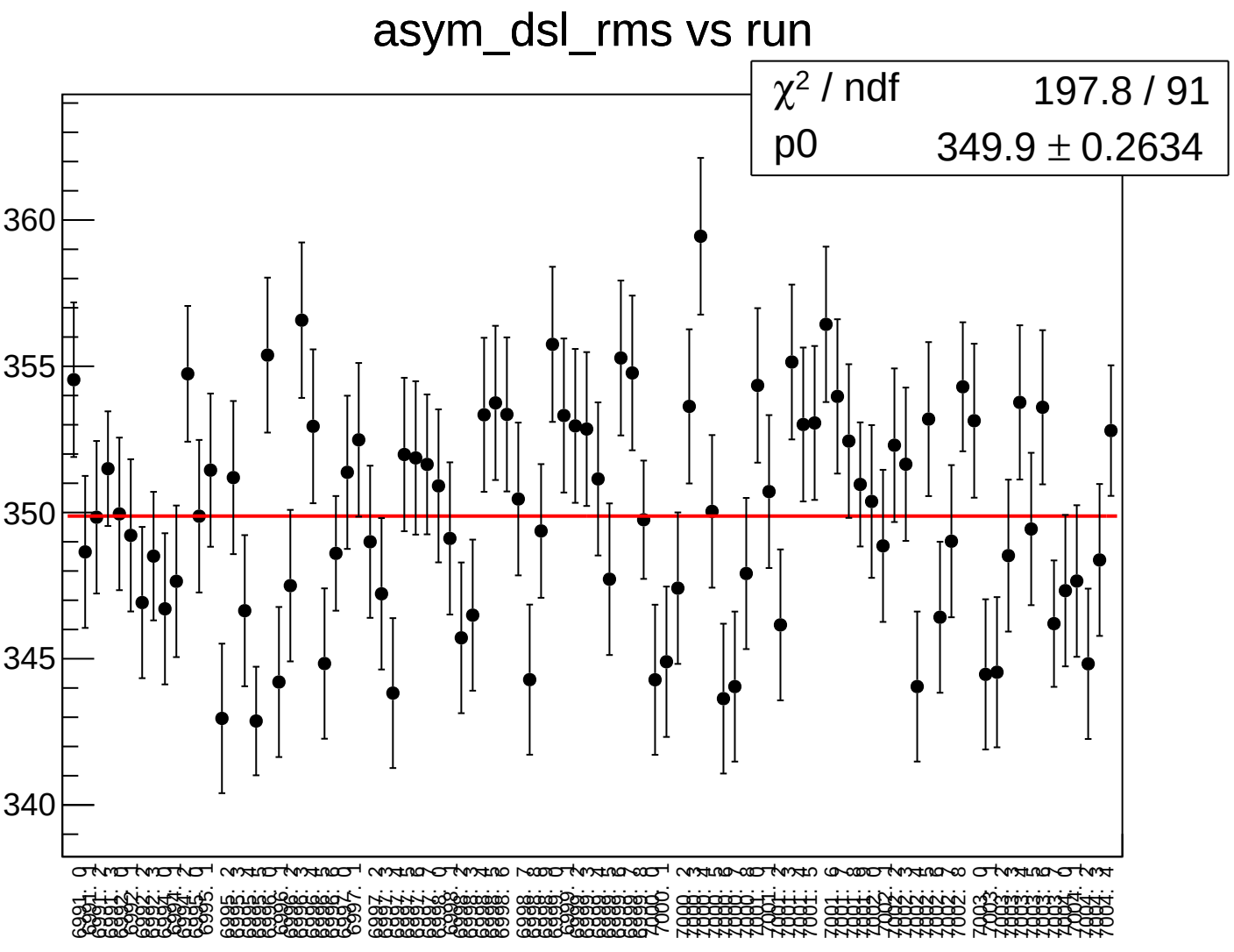

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.9 / 91
p0 0.08481 ± 0.07592
pull
Entries 92
Mean −114.7
Std Dev 0

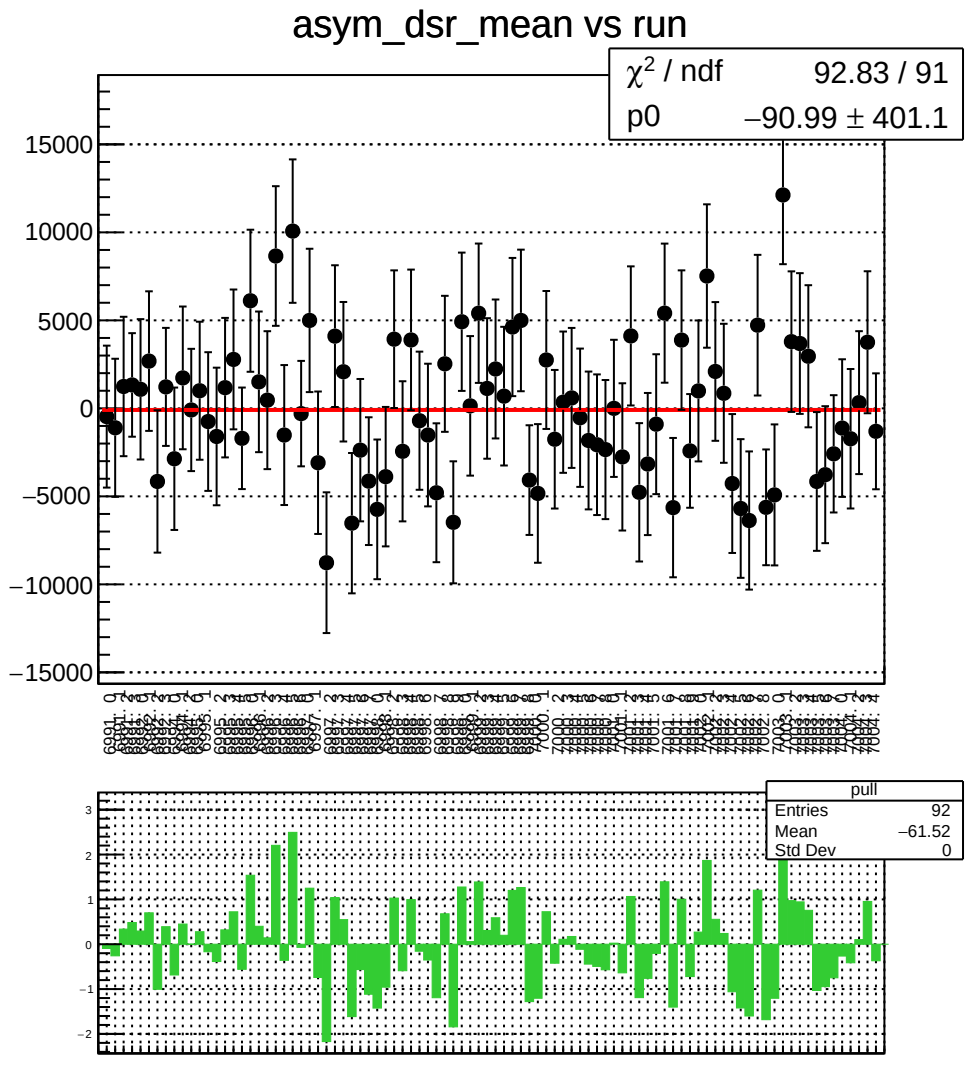

pull1D
Entries 92
Mean −0.02423
Std Dev 0.9827

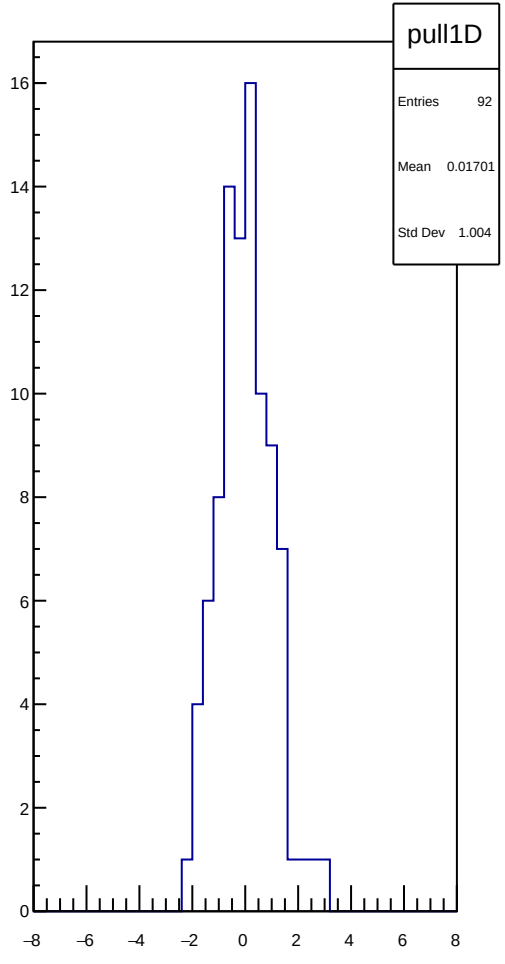

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.108e+04 / 91
p0 70.49 ± 0.05369
110
100
90
80
70
60
50
40

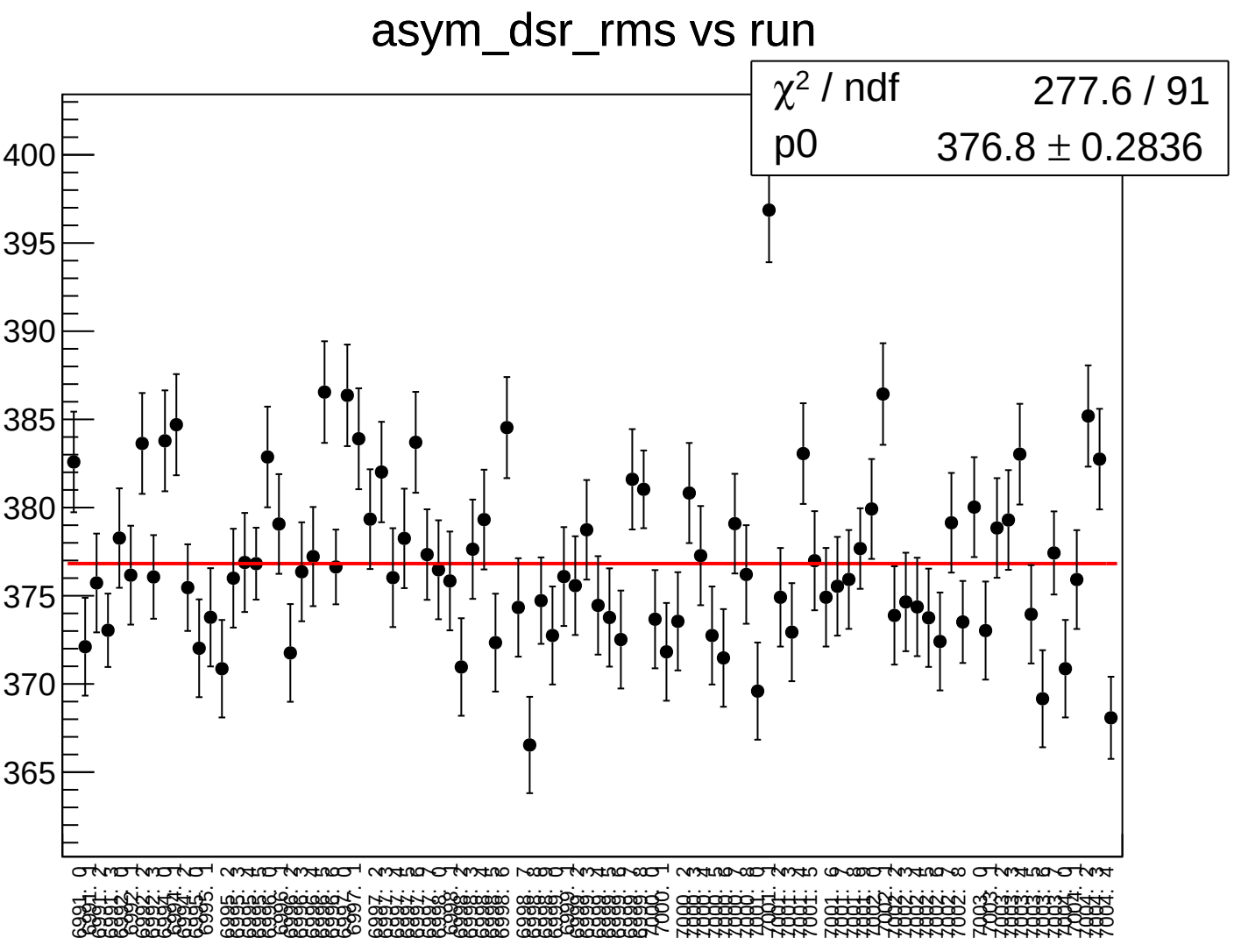

asym_dsl_mean vs run
χ² / ndf 79.58 / 91
p0 229.4 ± 372.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 515.8
Std Dev 0
3
2
1
0
−1
−2

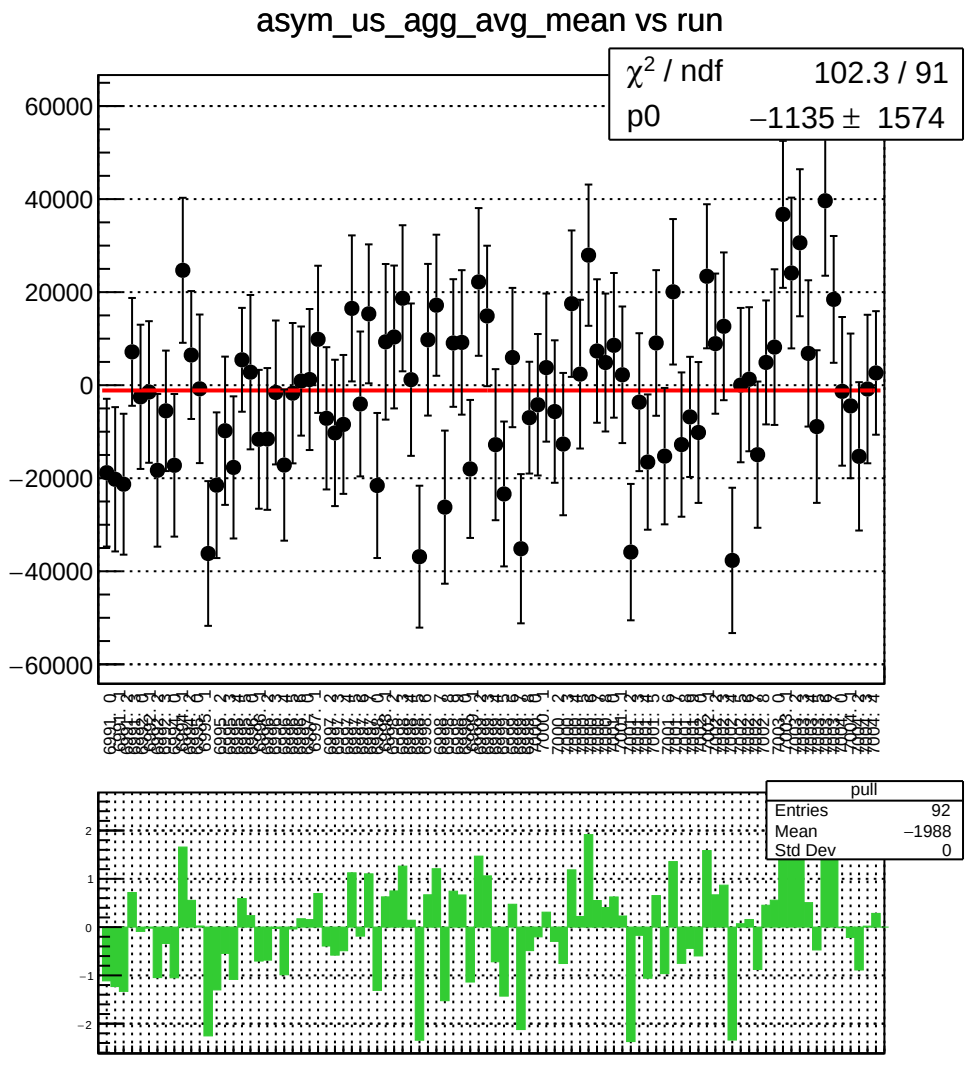

pull1D
Entries 92
Mean −0.006141
Std Dev 0.9301
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

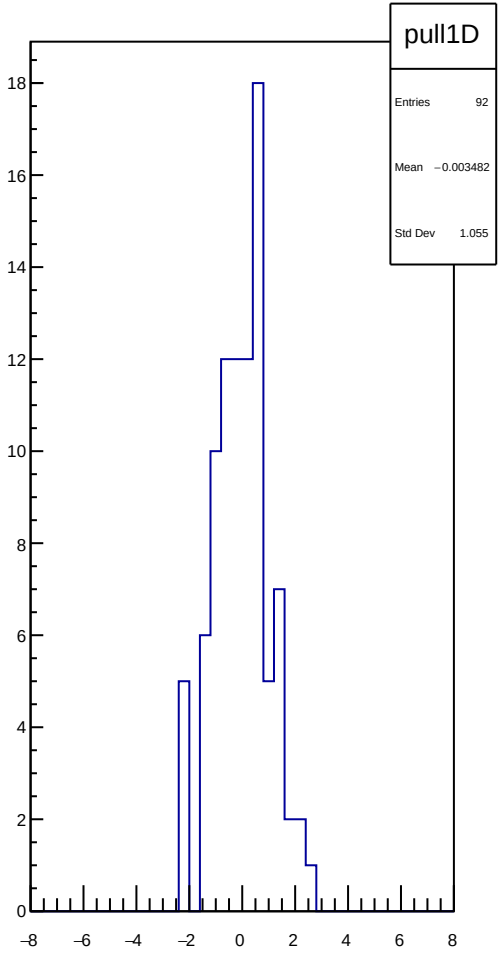

asym_dsl_rms vs run
χ^2 / ndf 197.8 / 91
p0 349.9 ± 0.2634
360
355
350
345
340

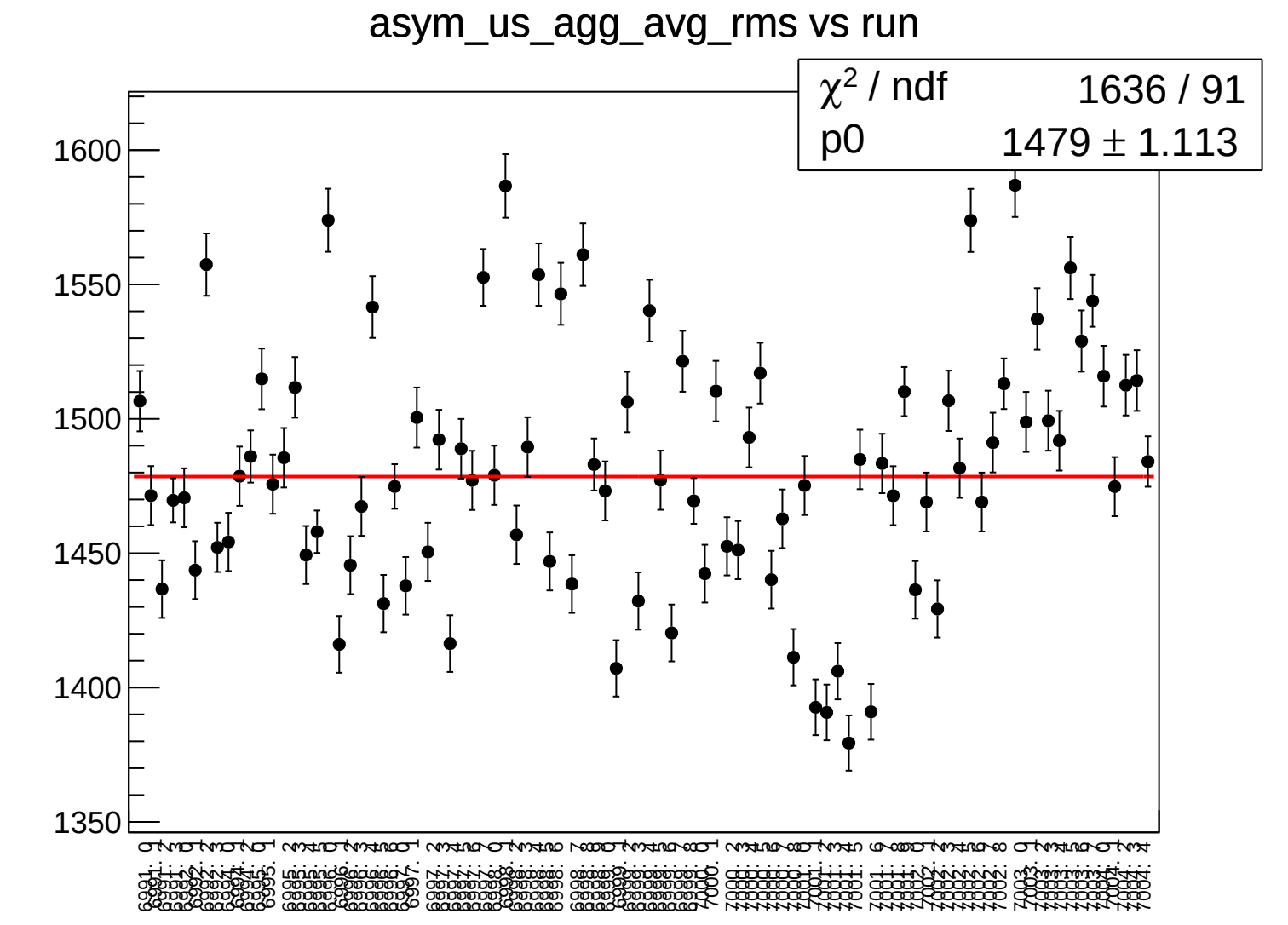

asym_dsr_mean vs run
χ² / ndf 92.83 / 91
p0 −90.99 ± 401.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −61.52
Std Dev 0
3
2
1
0
−1
−2

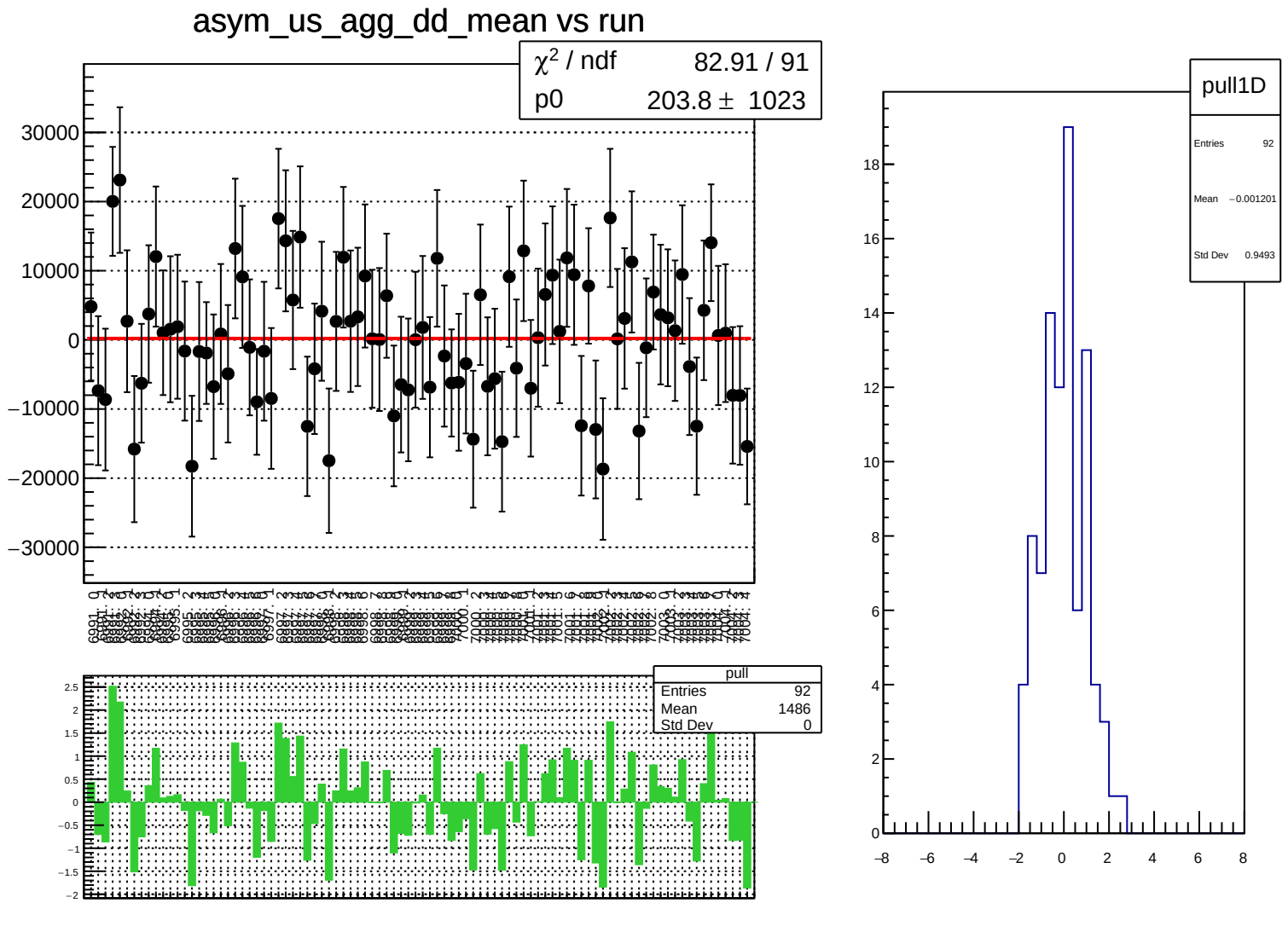

pull1D
Entries 92
Mean 0.01701
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

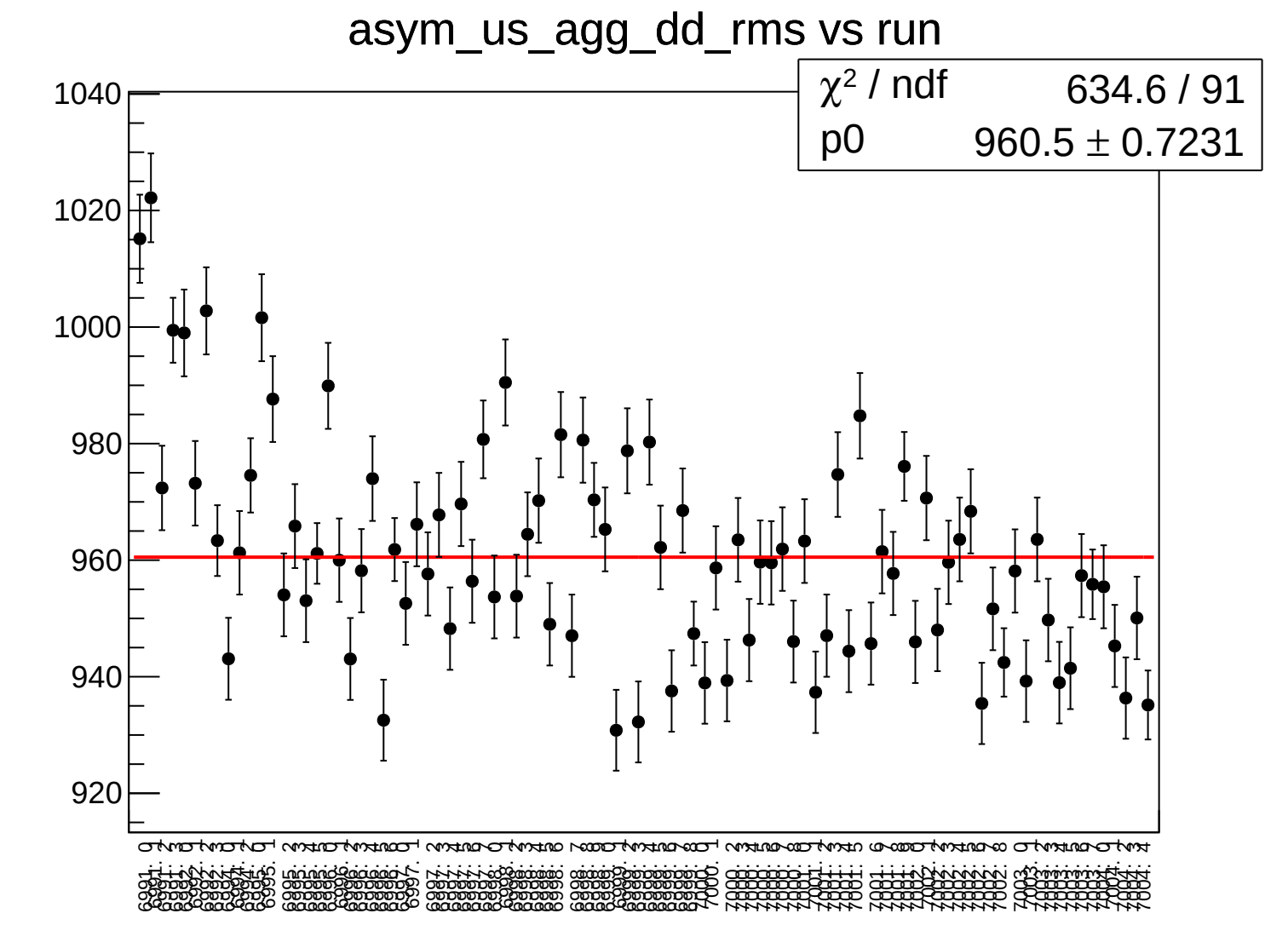

asym_dsr_rms vs run
χ² / ndf 277.6 / 91
p0 376.8 ± 0.2836
400
395
390
385
380
375
370
365

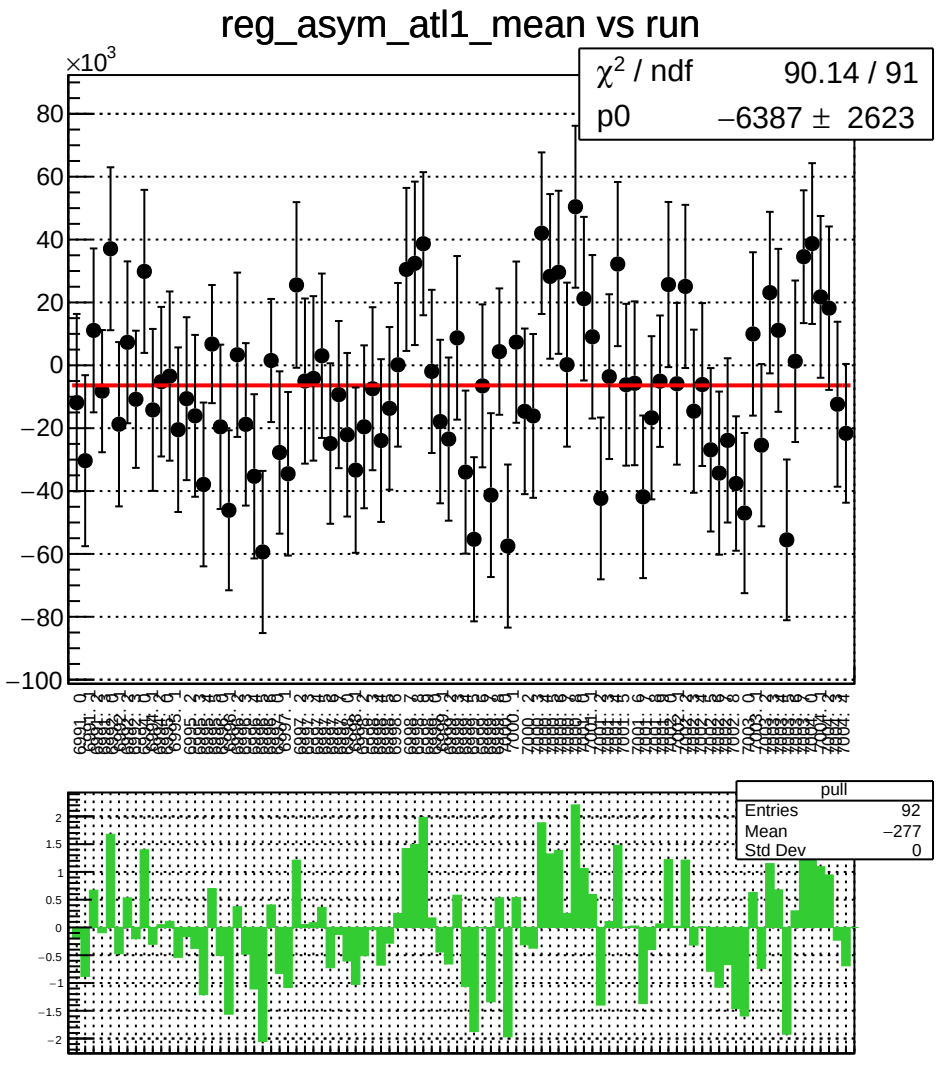

asym_us_agg_avg_mean vs run
χ² / ndf 102.3 / 91
p0 −1135 ± 1574
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1988
Std Dev 0
2
1
0
−1
−2

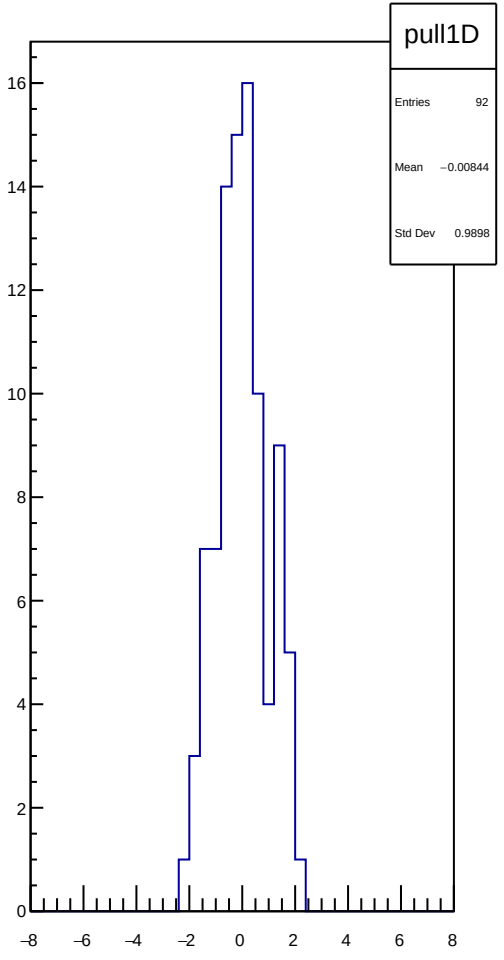

pull1D
Entries 92
Mean −0.003482
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

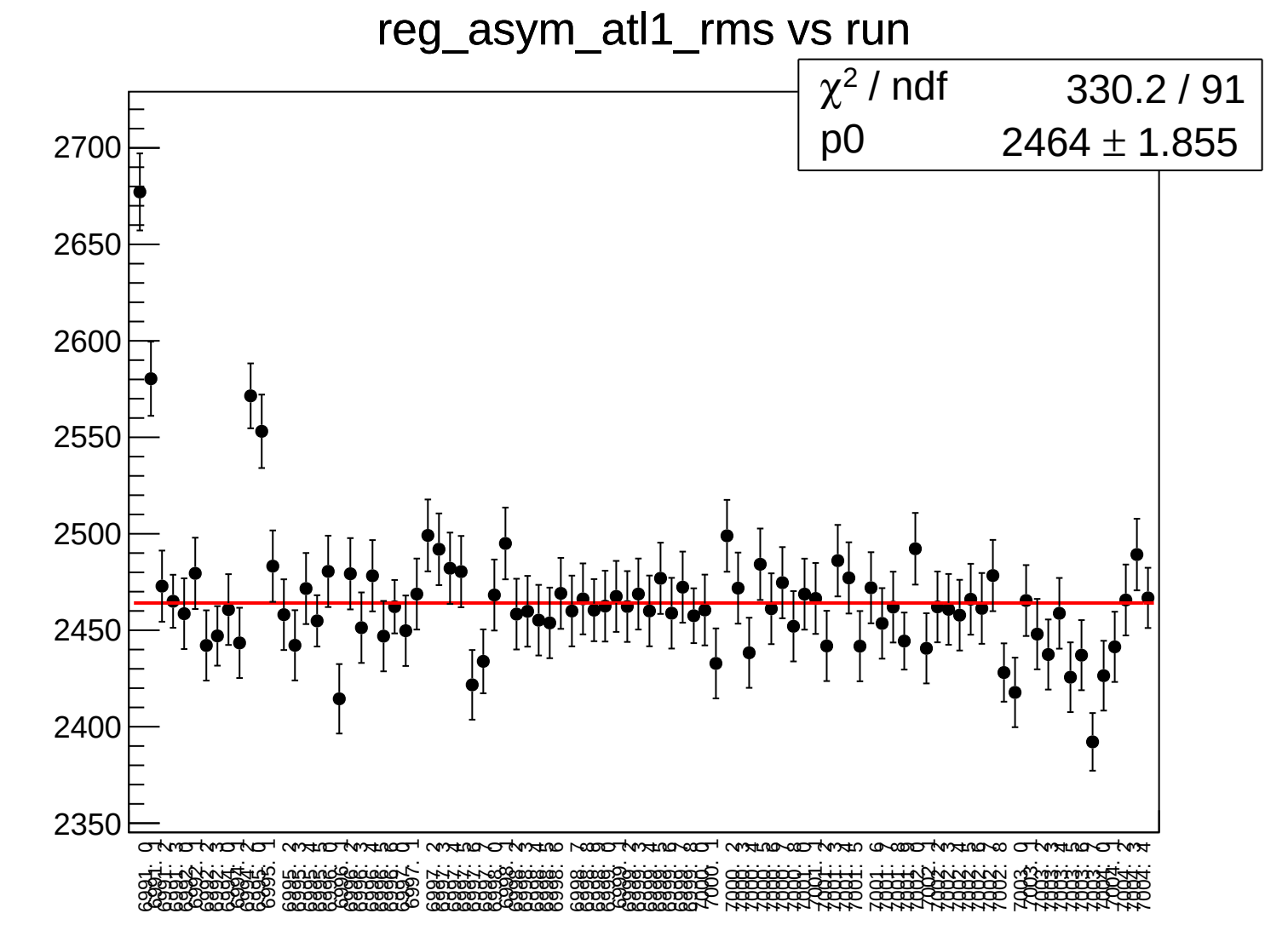

asym_us_agg_avg_rms vs run
χ² / ndf 1636 / 91
p0 1479 ± 1.113
1600
1550
1500
1450
1400
1350

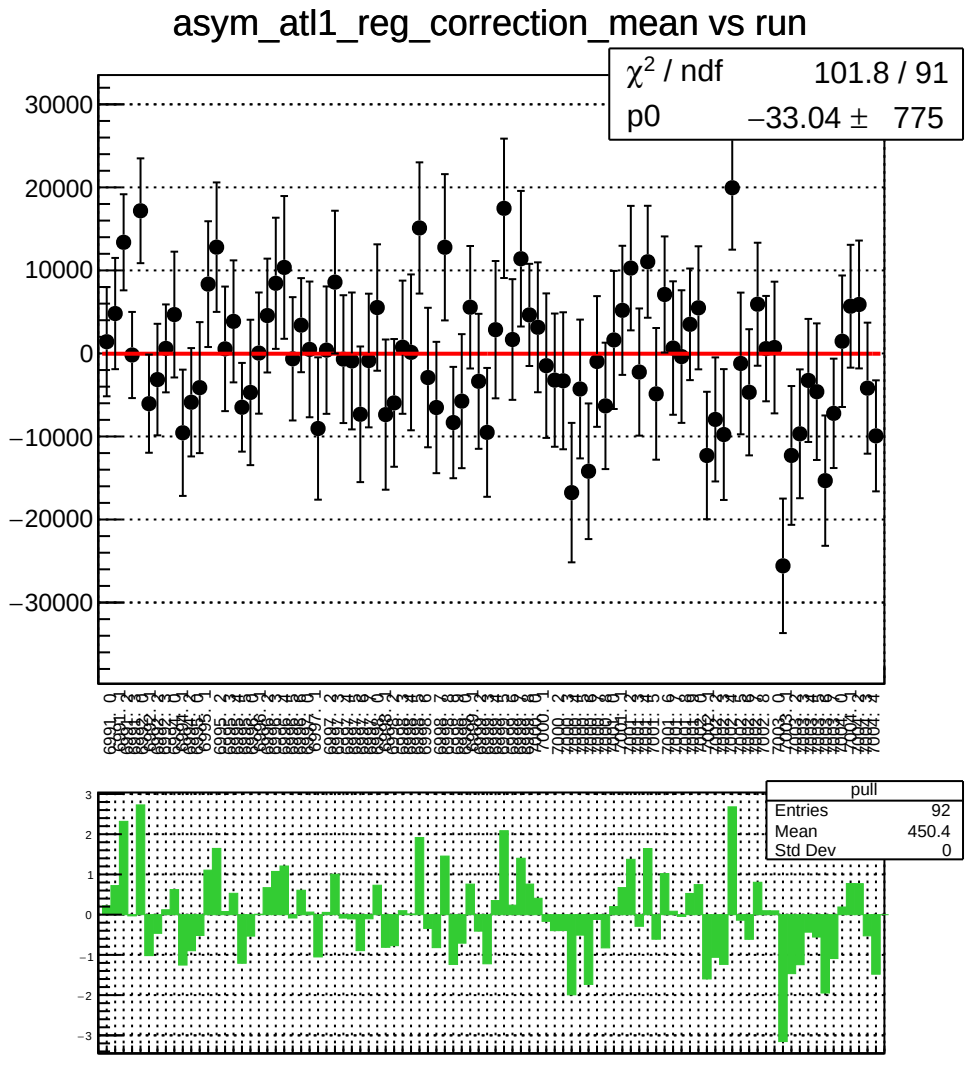

asym_us_agg_dd_mean vs run
χ² / ndf 82.91 / 91
p0 203.8 ± 1023
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 1486
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.001201
Std Dev 0.9493
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

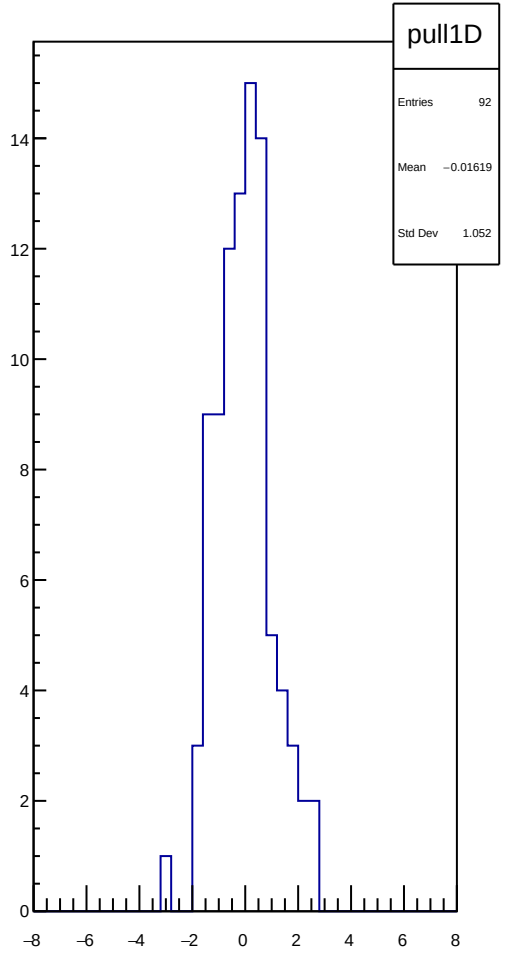

asym_us_agg_dd_rms vs run
χ² / ndf 634.6 / 91
p0 960.5 ± 0.7231
1040
1020
1000
980
960
940
920

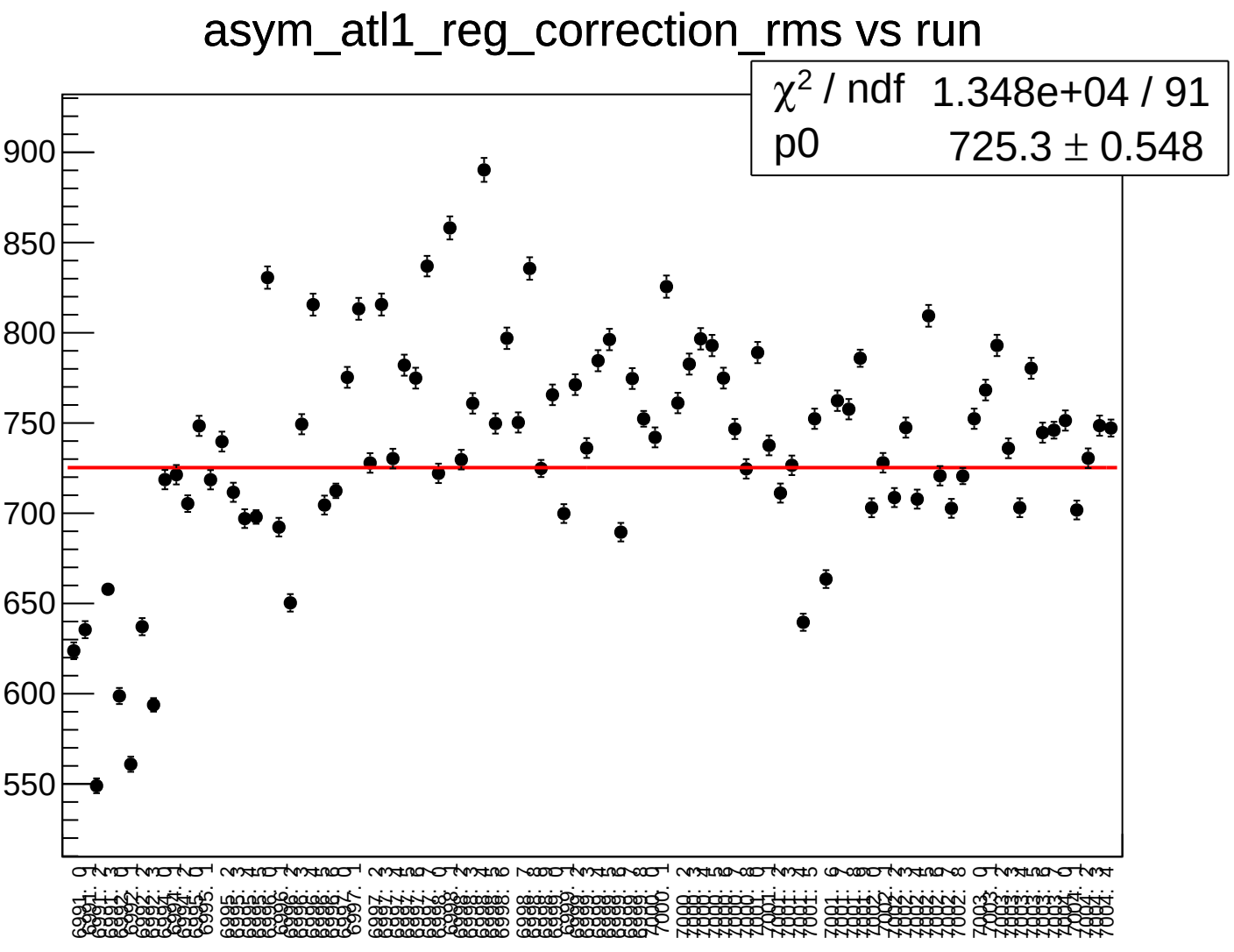

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 90.14 / 91
p0 −6387 ± 2623
pull
Entries 92
Mean −277
Std Dev 0

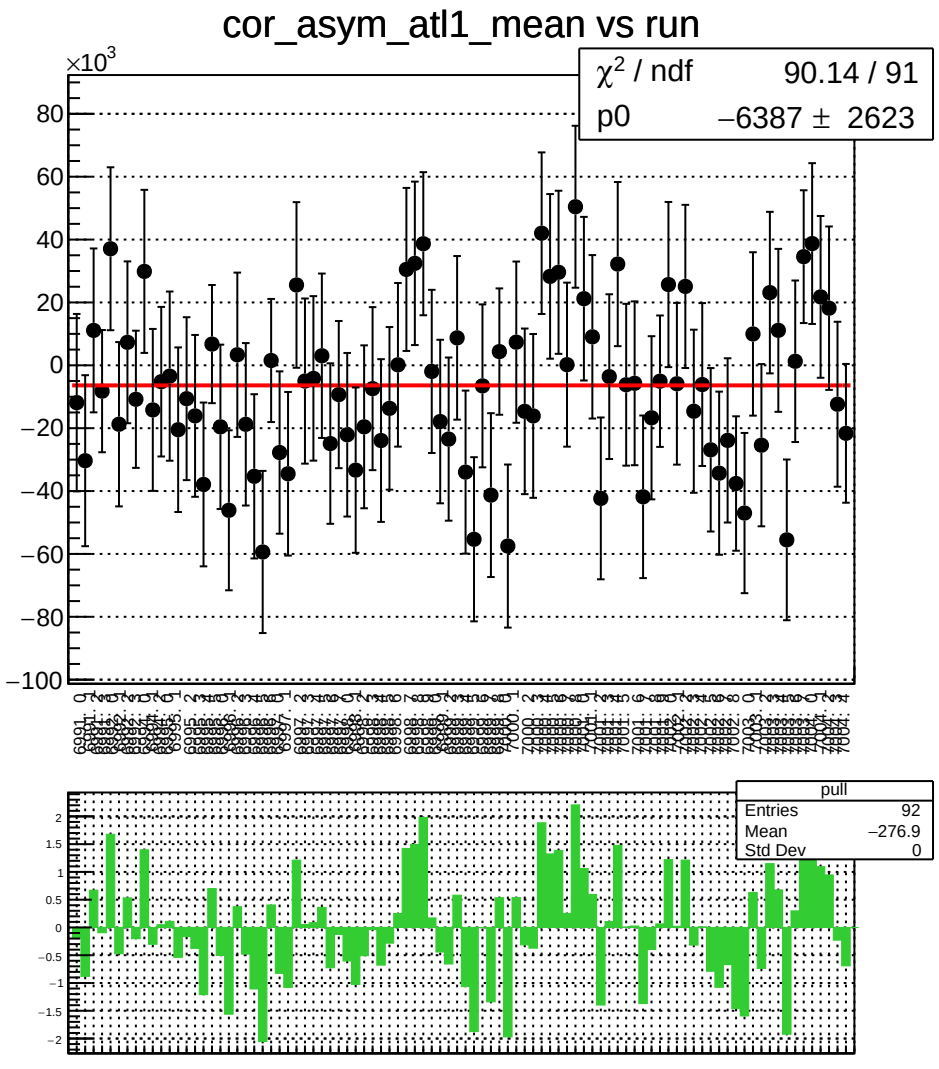

pull1D
Entries 92
Mean −0.00844
Std Dev 0.9898

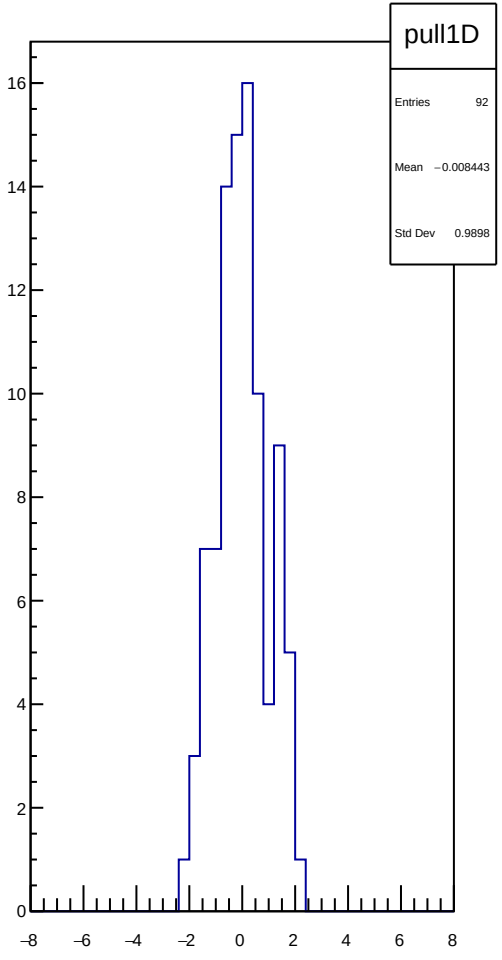

reg_asym_atl1_rms vs run
χ^2 / ndf 330.2 / 91
p0 2464 ± 1.855
2700
2650
2600
2550
2500
2450
2400
2350

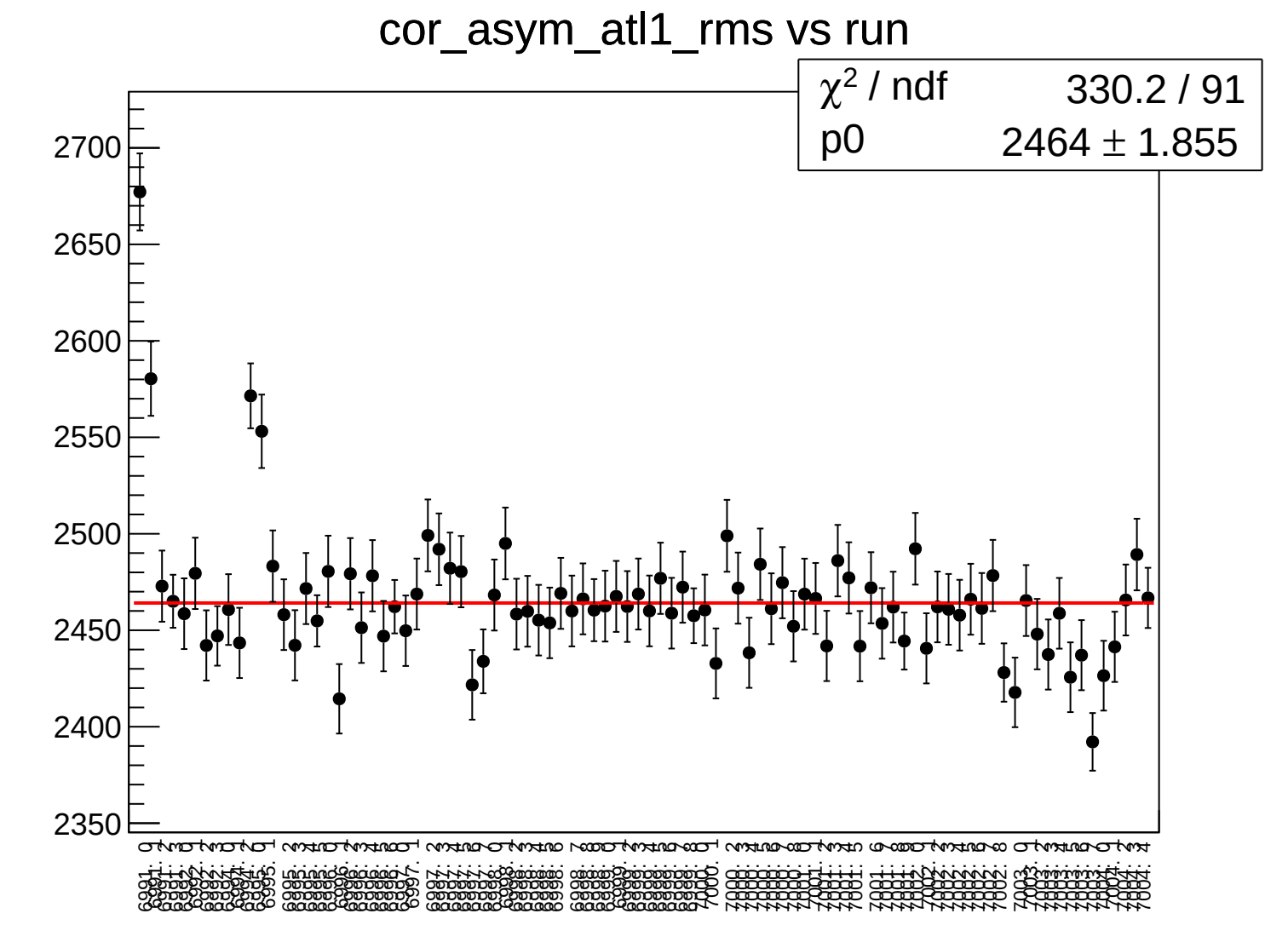

asym_atl1_reg_correction_mean vs run
χ² / ndf 101.8 / 91
p0 −33.04 ± 775
pull
Entries 92
Mean 450.4
Std Dev 0

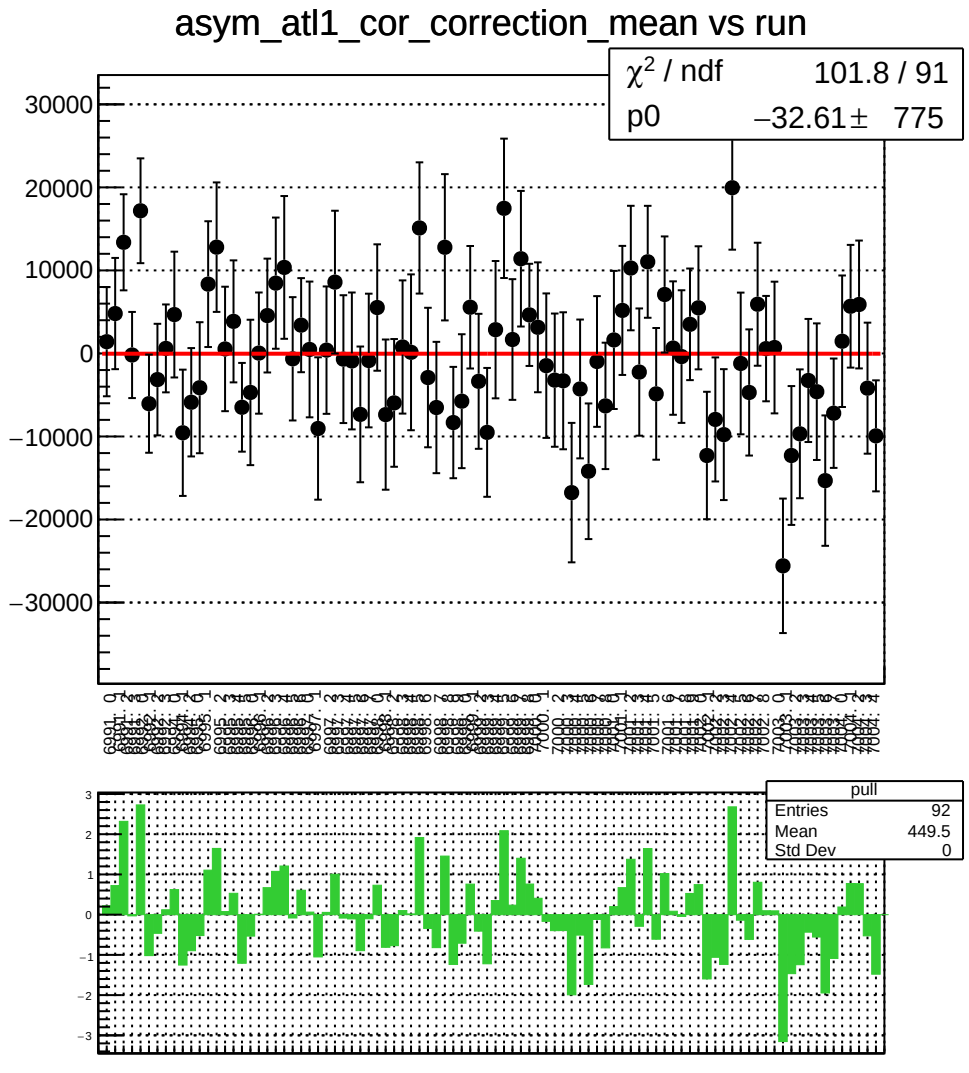

pull1D
Entries 92
Mean −0.01619
Std Dev 1.052

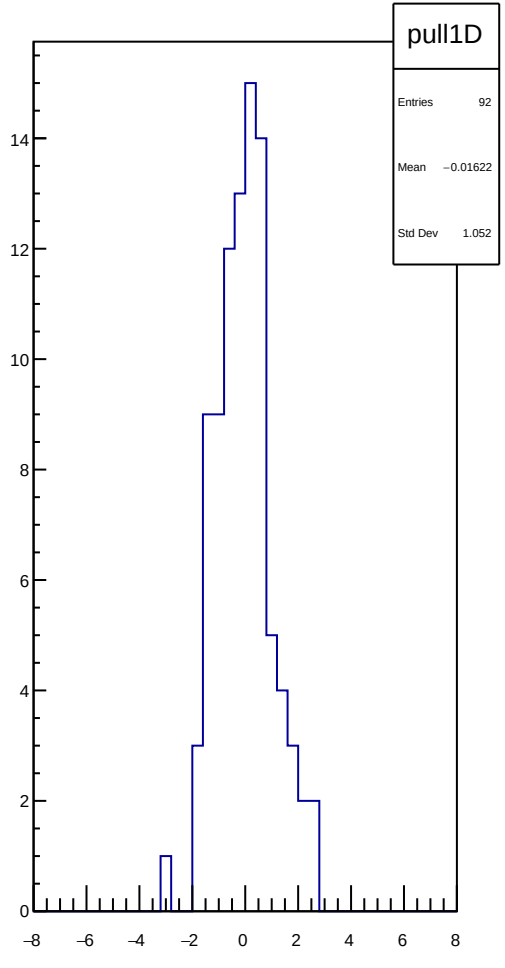

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.348e+04 / 91
p0 725.3 ± 0.548
900
850
800
750
700
650
600
550

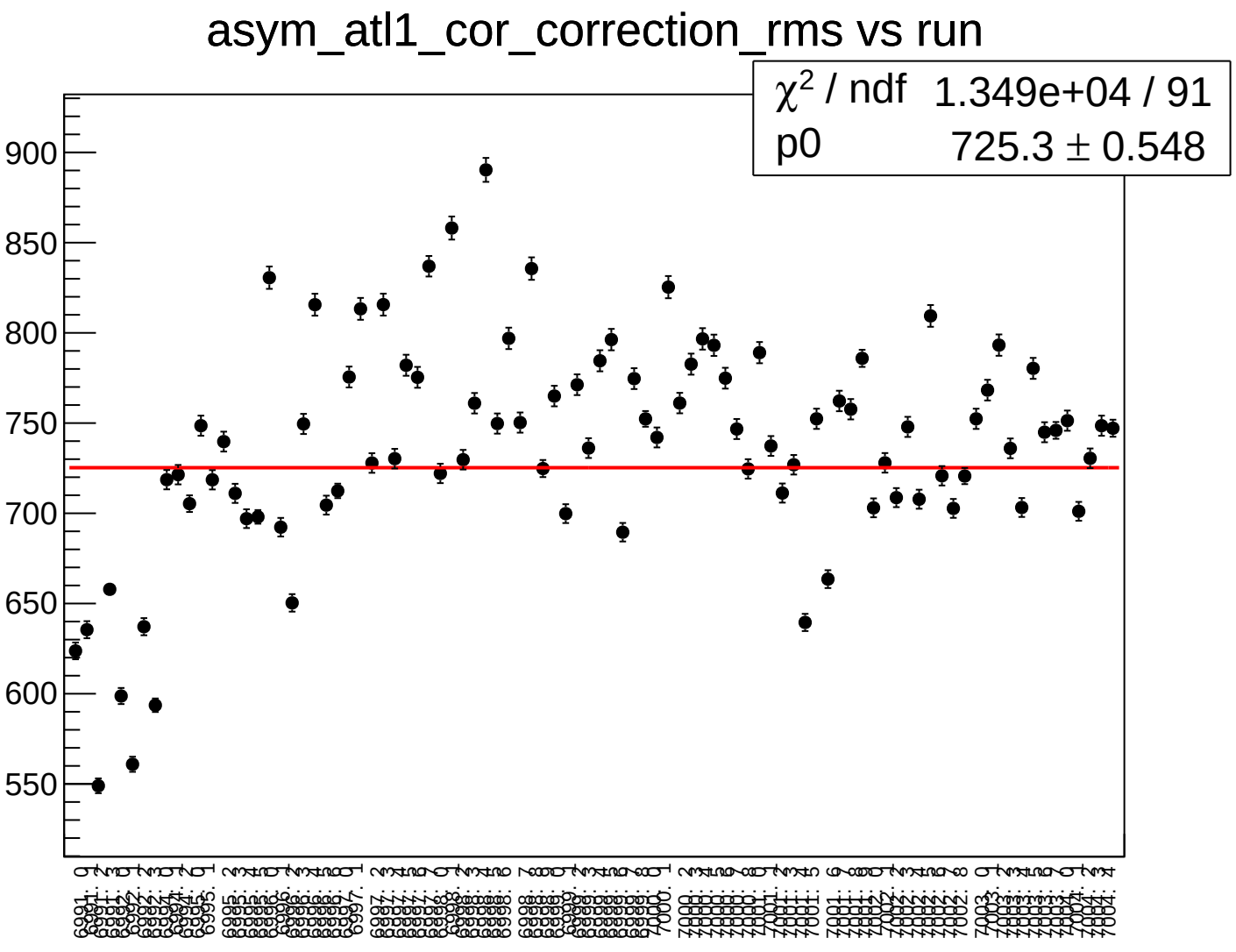

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 90.14 / 91
p0 −6387 ± 2623
pull
Entries 92
Mean −276.9
Std Dev 0

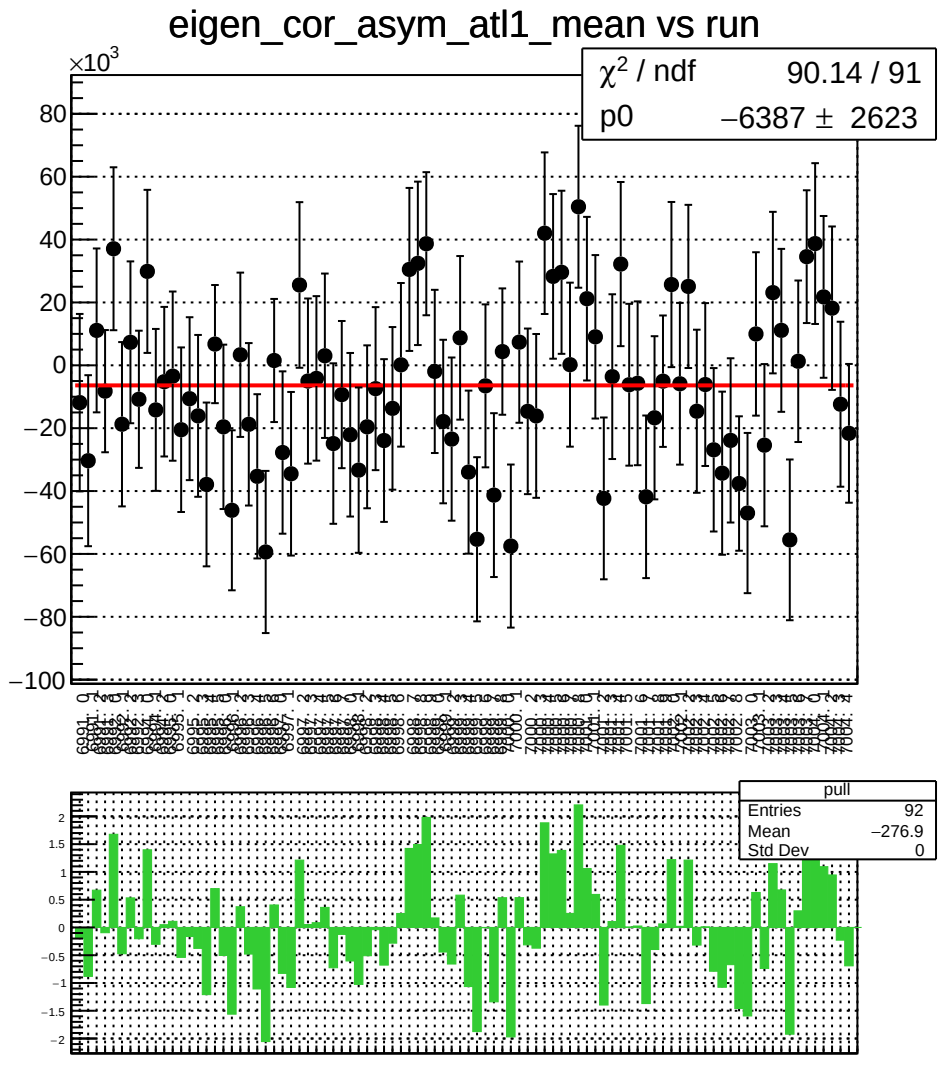

pull1D
Entries 92
Mean −0.008443
Std Dev 0.9898

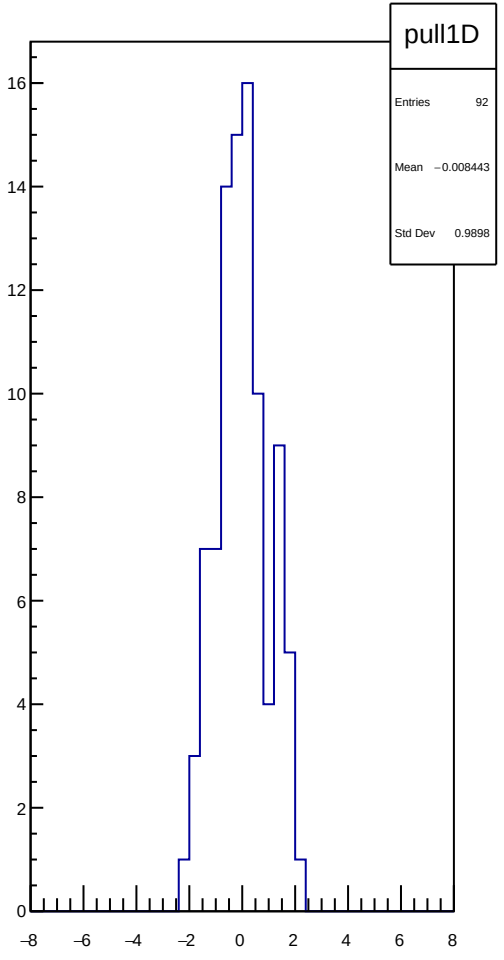

cor_asym_atl1_rms vs run
χ² / ndf 330.2 / 91
p0 2464 ± 1.855
2700
2650
2600
2550
2500
2450
2400
2350

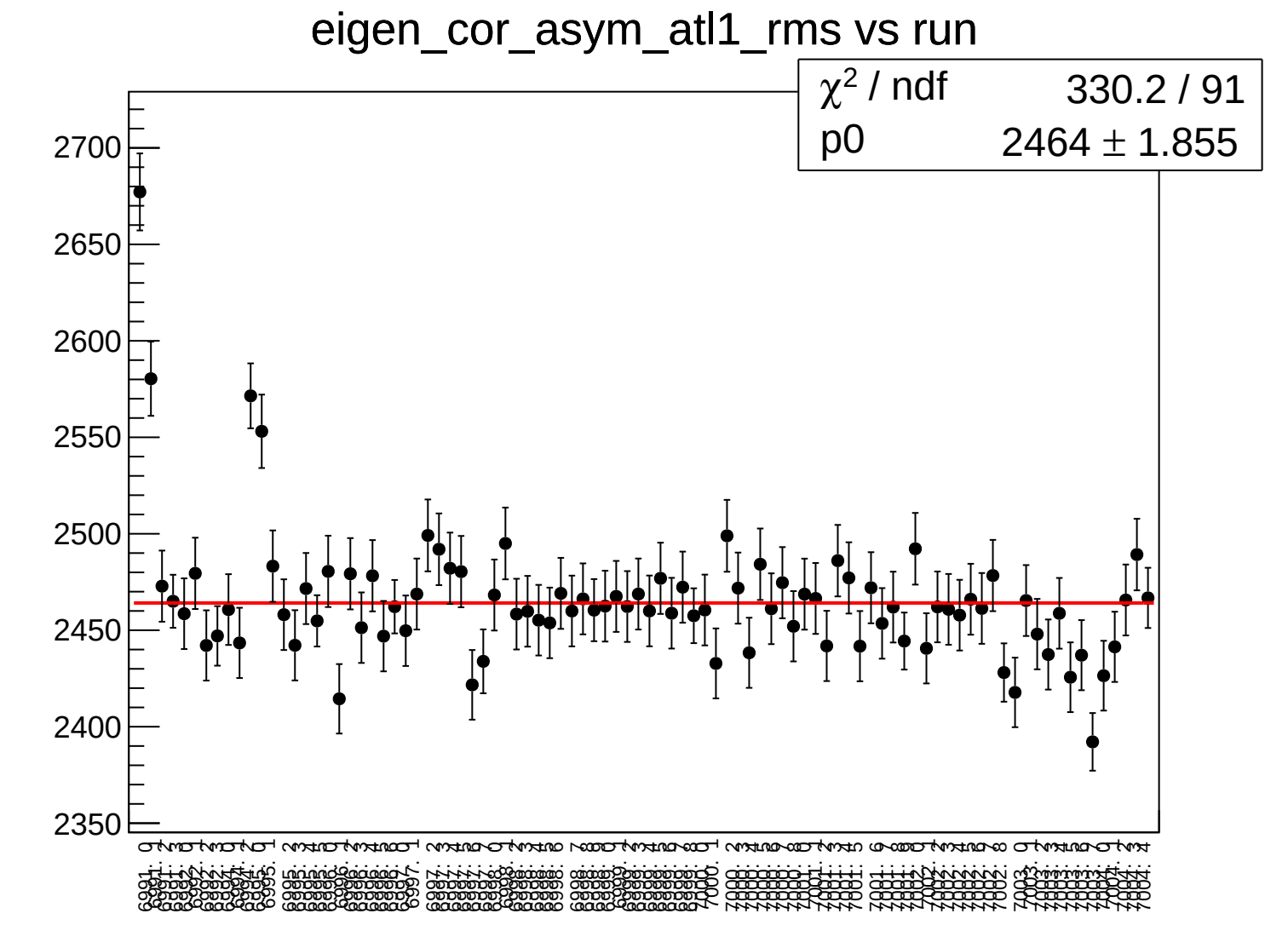

asym_atl1_cor_correction_mean vs run
χ² / ndf 101.8 / 91
p0 −32.61± 775
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 449.5
Std Dev 0
3
2
1
0
−1
−2
−3

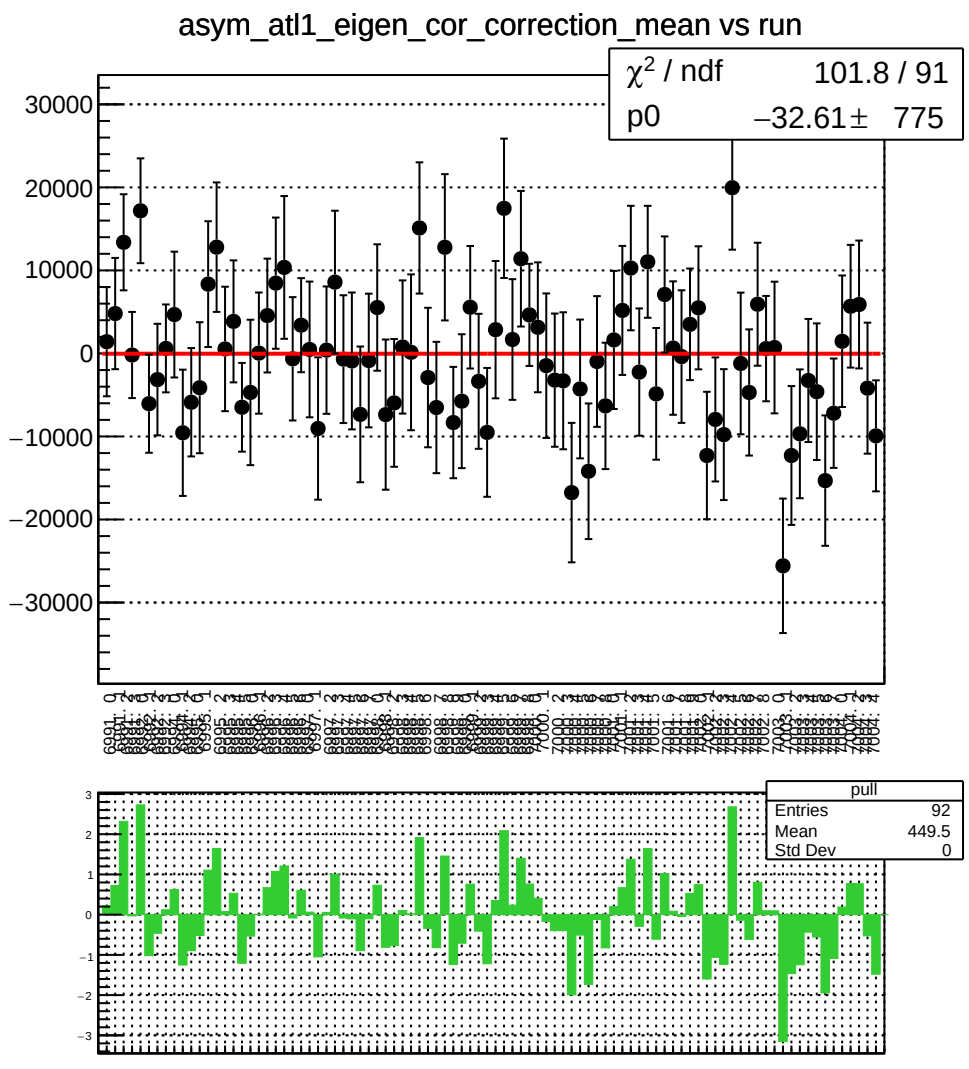

pull1D
Entries 92
Mean −0.01622
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

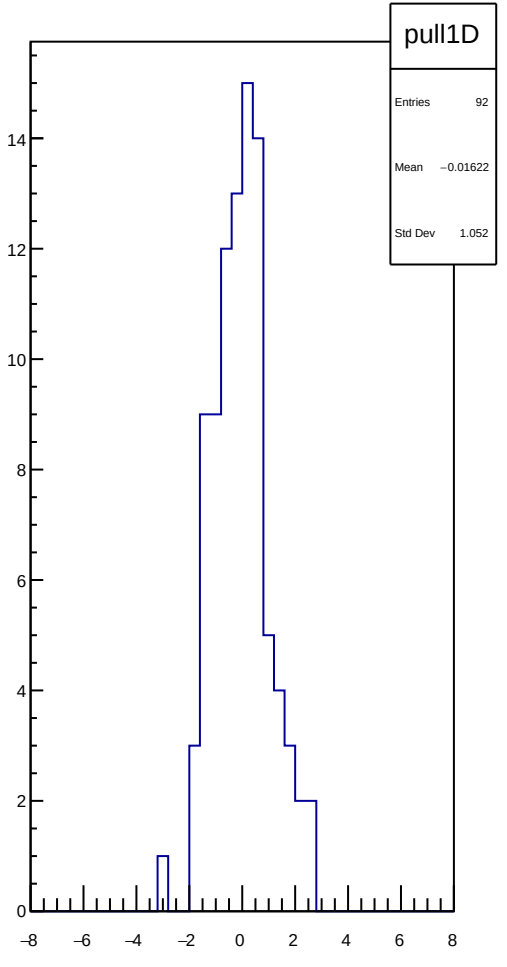

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.349e+04 / 91
p0 725.3 ± 0.548
900
850
800
750
700
650
600
550

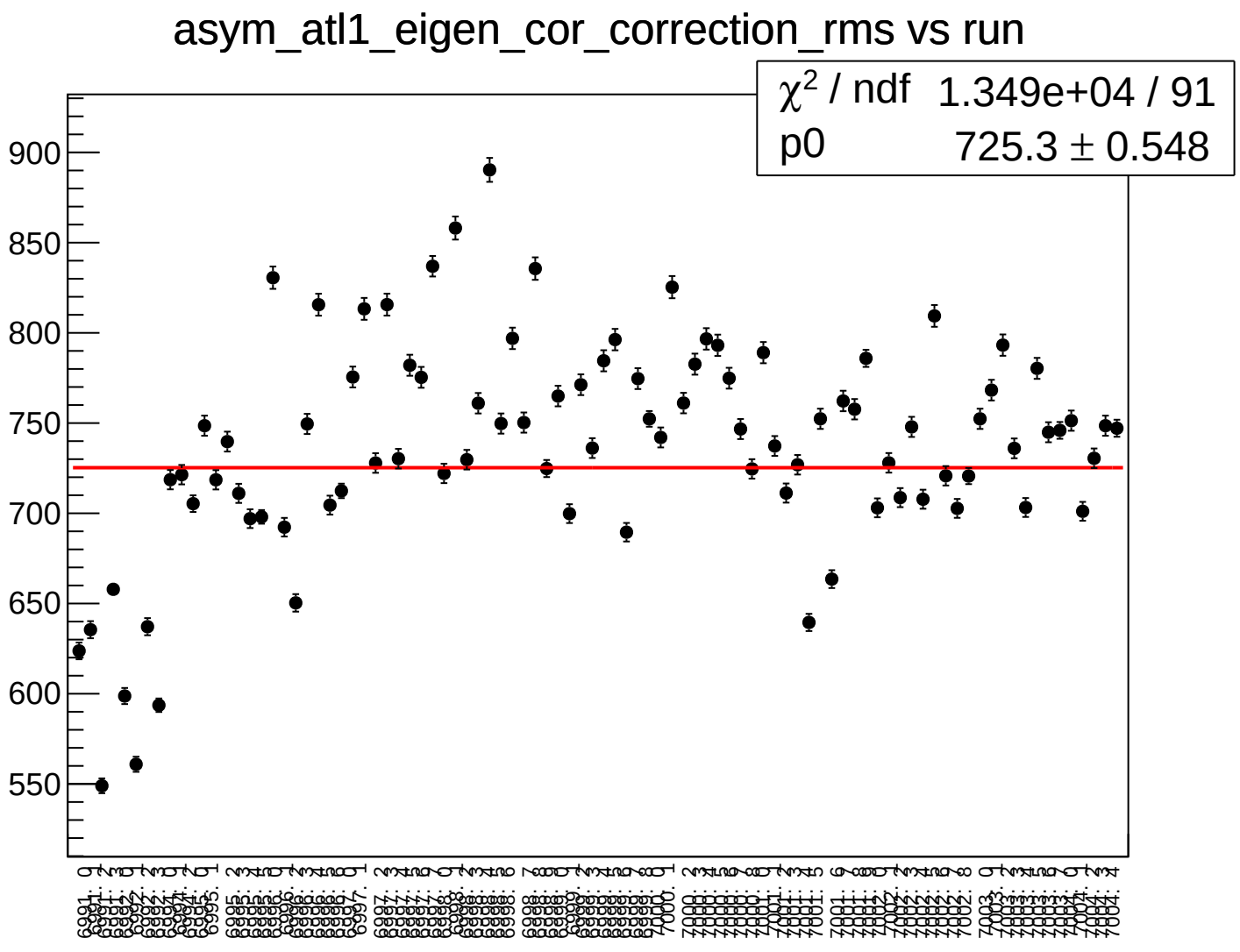

eigen_cor_asym_atl1_mean vs run
χ² / ndf 90.14 / 91
p0 −6387 ± 2623
×10³
pull
Entries 92
Mean −276.9
Std Dev 0

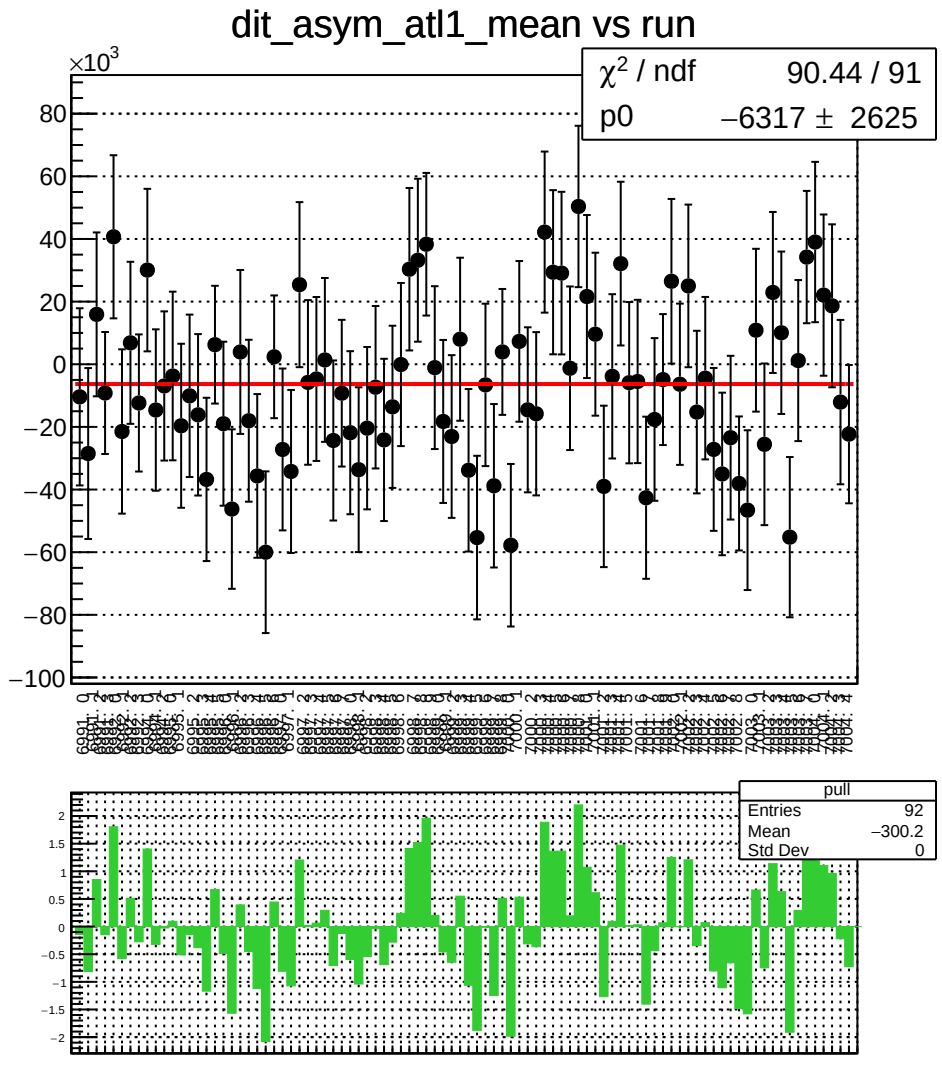

pull1D
Entries 92
Mean −0.008443
Std Dev 0.9898

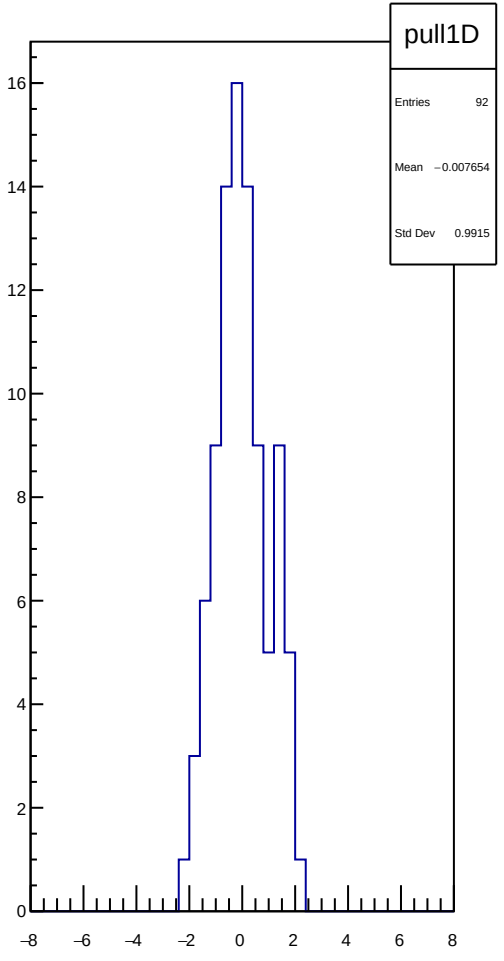

eigen_cor_asym_atl1_rms vs run
χ² / ndf 330.2 / 91
p0 2464 ± 1.855
2700
2650
2600
2550
2500
2450
2400
2350

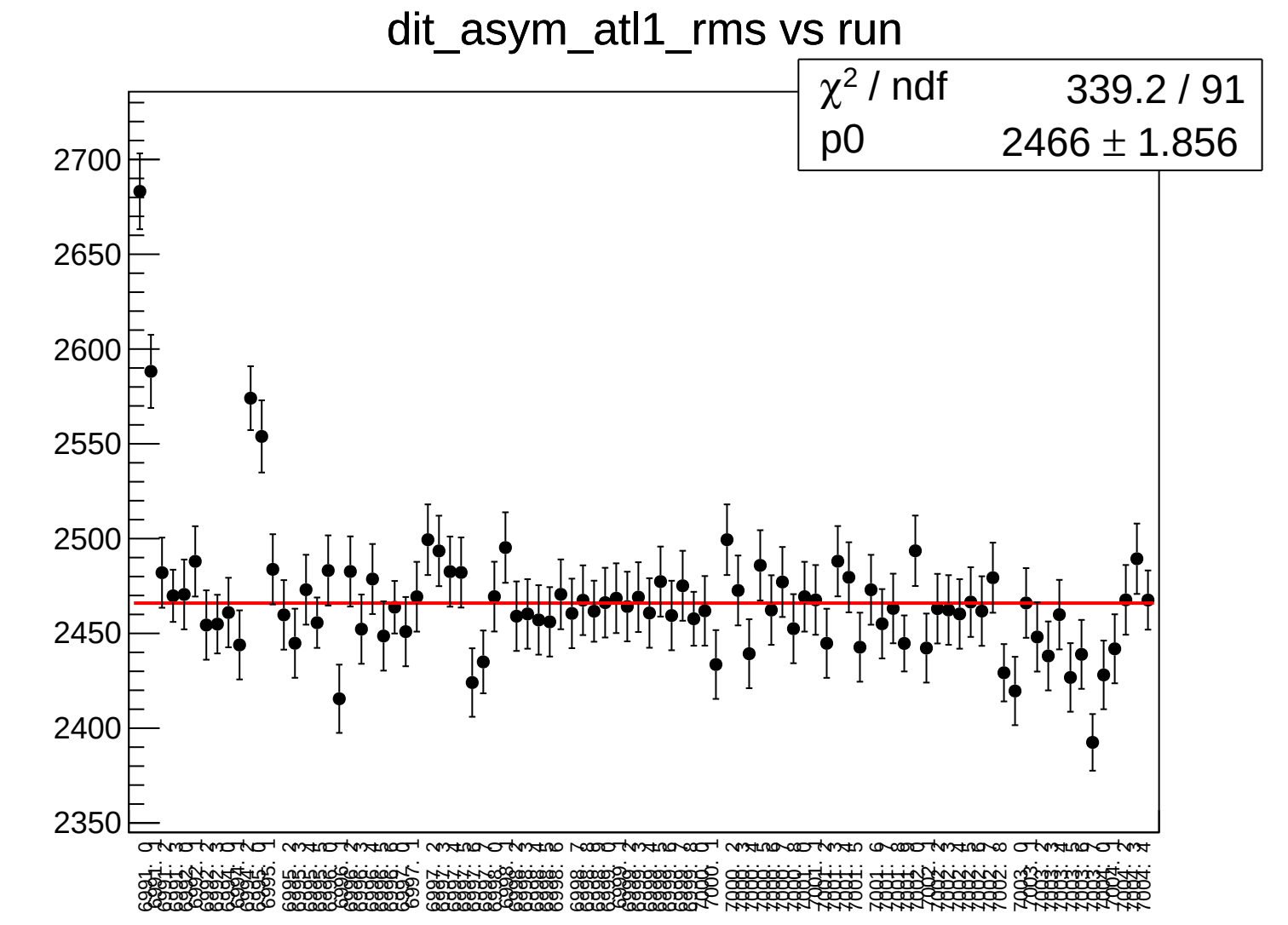

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 101.8 / 91
p0 −32.61 ± 775
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 449.5
Std Dev 0
3
2
1
0
−1
−2
−3

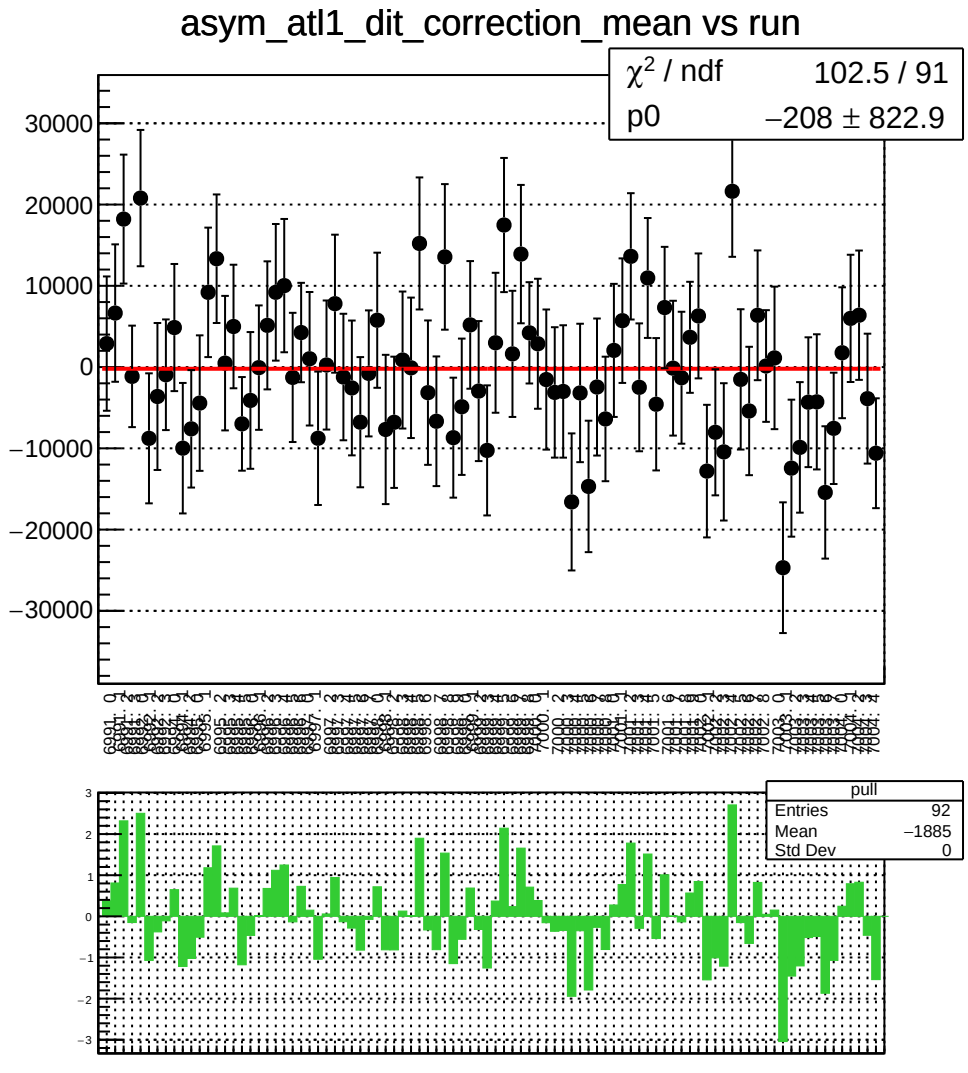

pull1D
Entries 92
Mean −0.01622
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

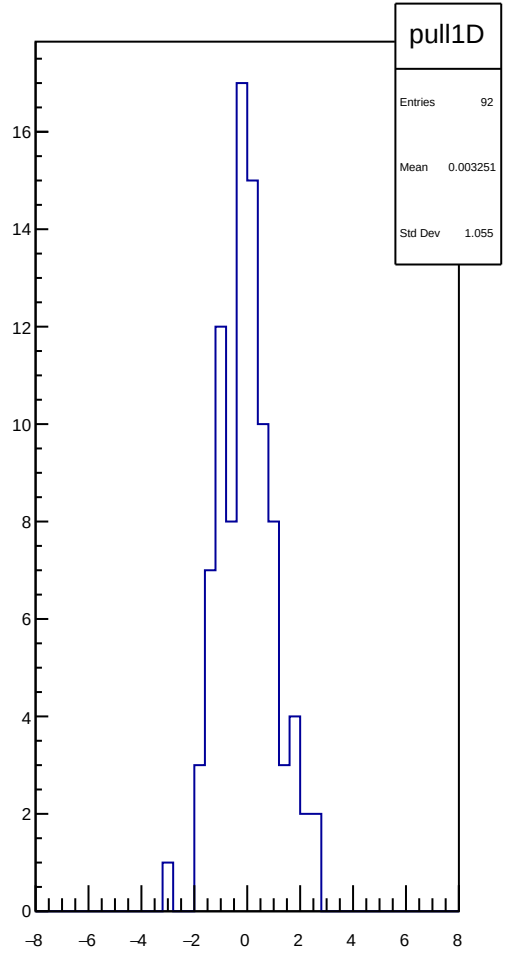

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.349e+04 / 91
p0 725.3 ± 0.548
900
850
800
750
700
650
600
550

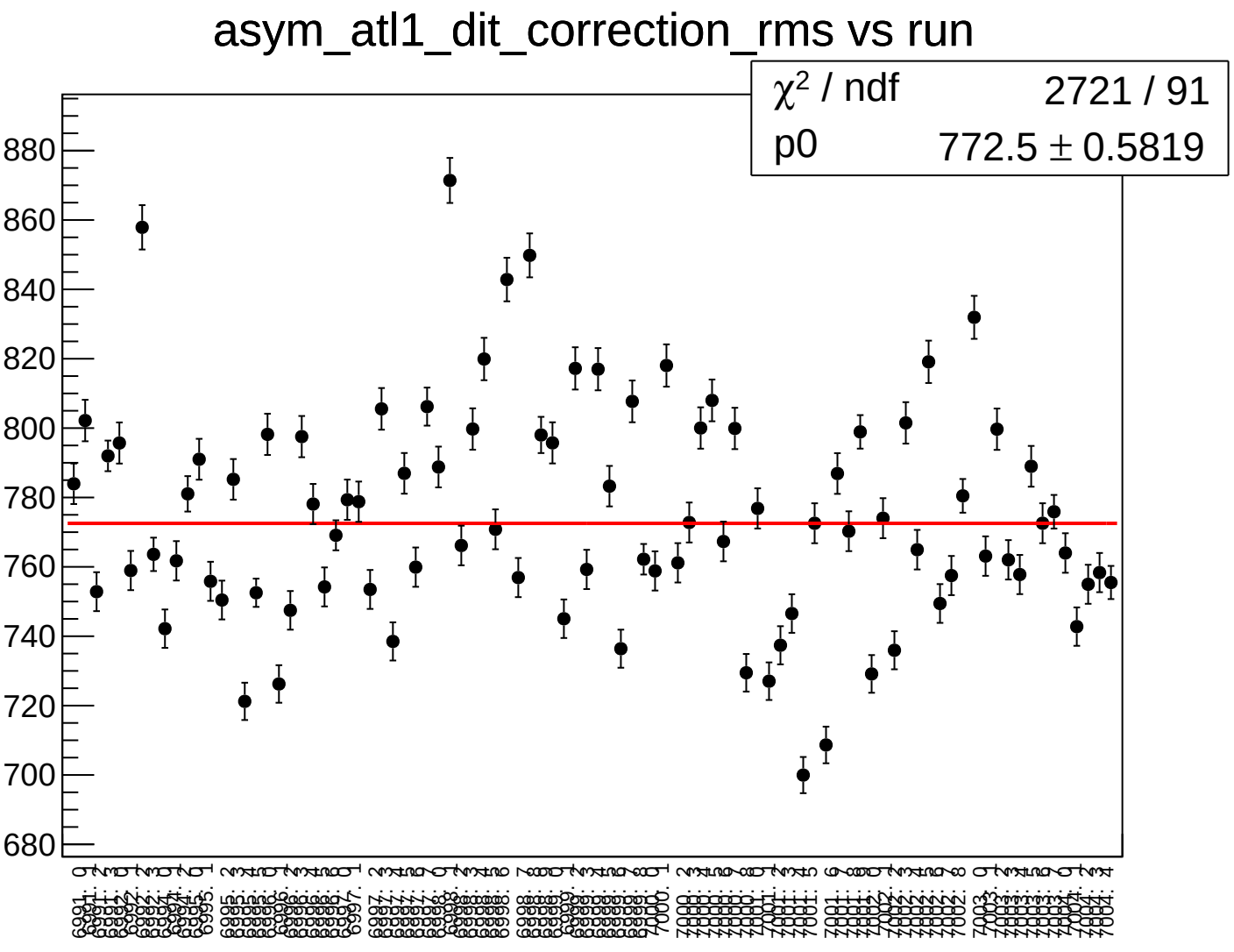

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 90.44 / 91
p0 −6317 ± 2625
pull
Entries 92
Mean −300.2
Std Dev 0

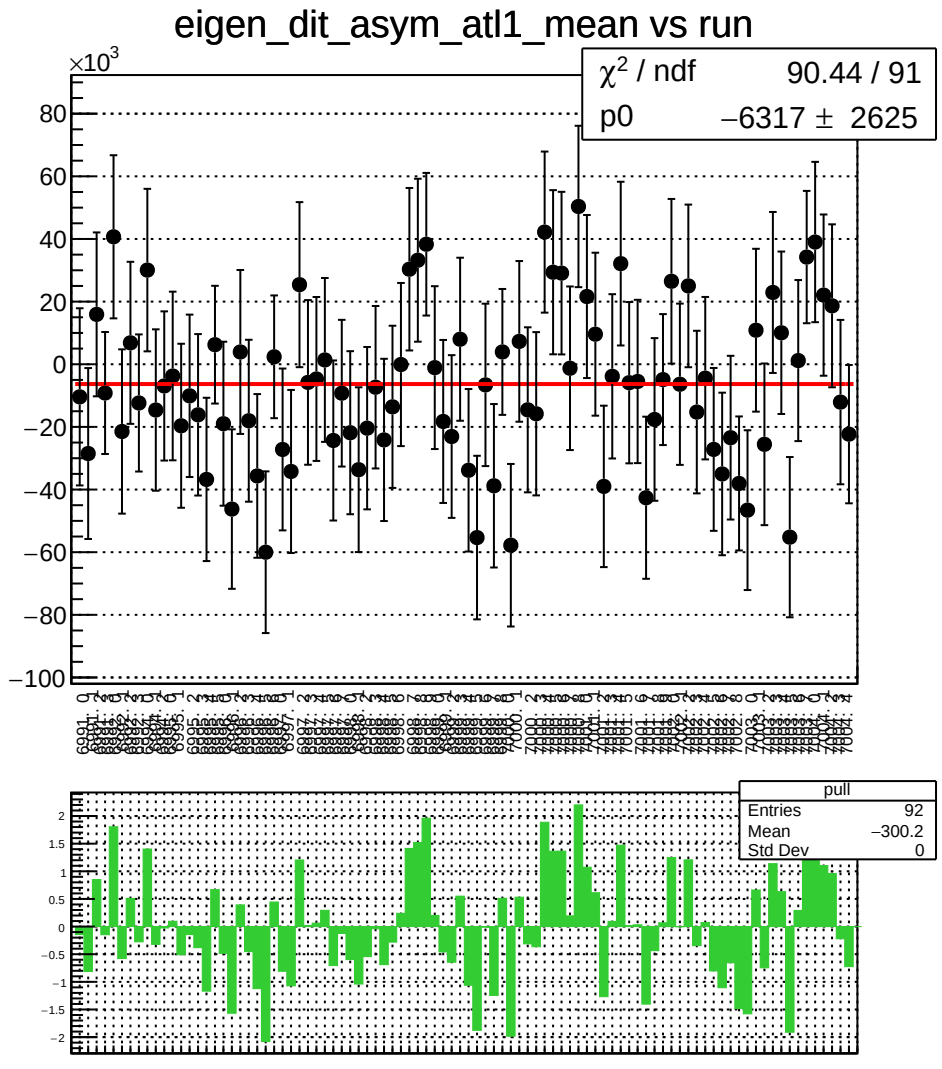

pull1D
Entries 92
Mean −0.007654
Std Dev 0.9915

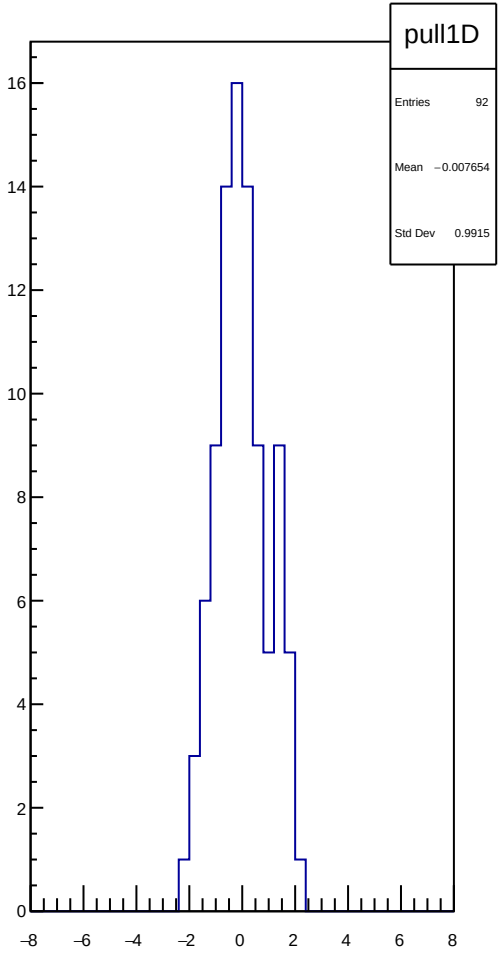

dit_asym_atl1_rms vs run
χ² / ndf 339.2 / 91
p0 2466 ± 1.856
2700
2650
2600
2550
2500
2450
2400
2350

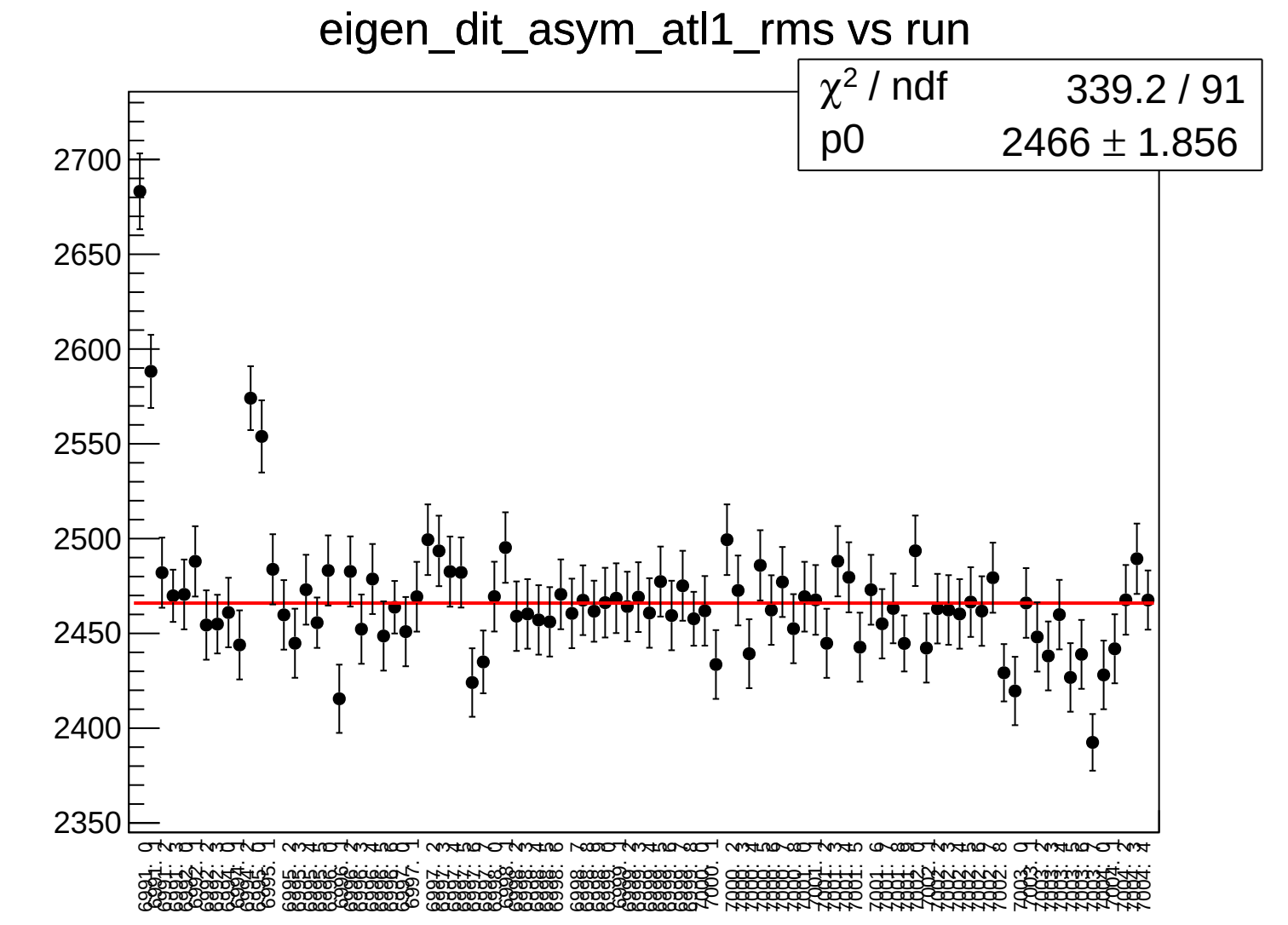

asym_atl1_dit_correction_mean vs run
χ² / ndf 102.5 / 91
p0 −208 ± 822.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1885
Std Dev 0
3
2
1
0
−1
−2
−3

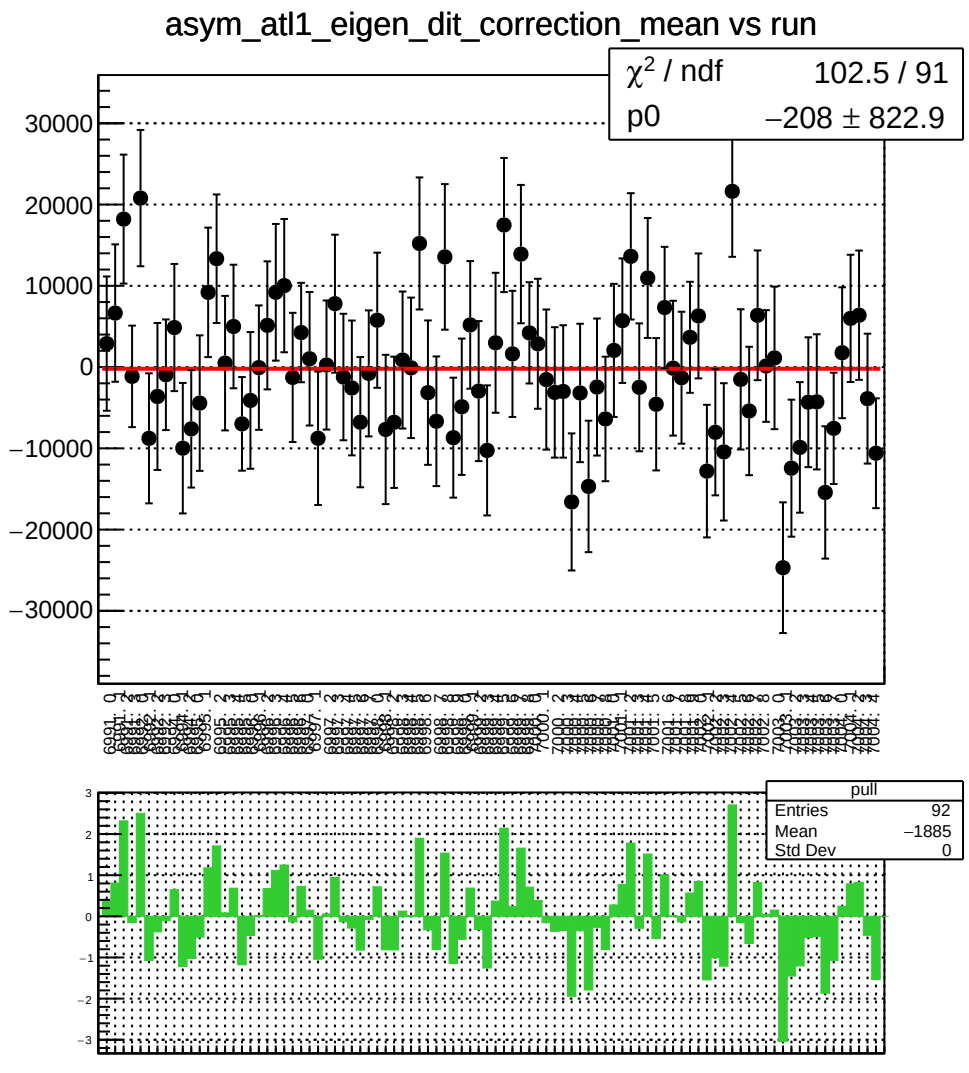

pull1D
Entries 92
Mean 0.003251
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

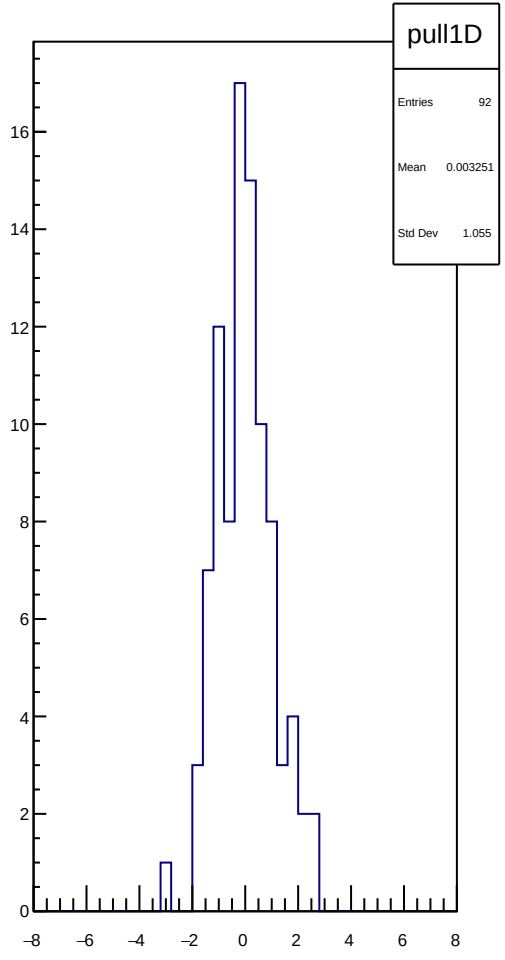

asym_atl1_dit_correction_rms vs run
χ² / ndf 2721 / 91
p0 772.5 ± 0.5819
880
860
840
820
800
780
760
740
720
700
680

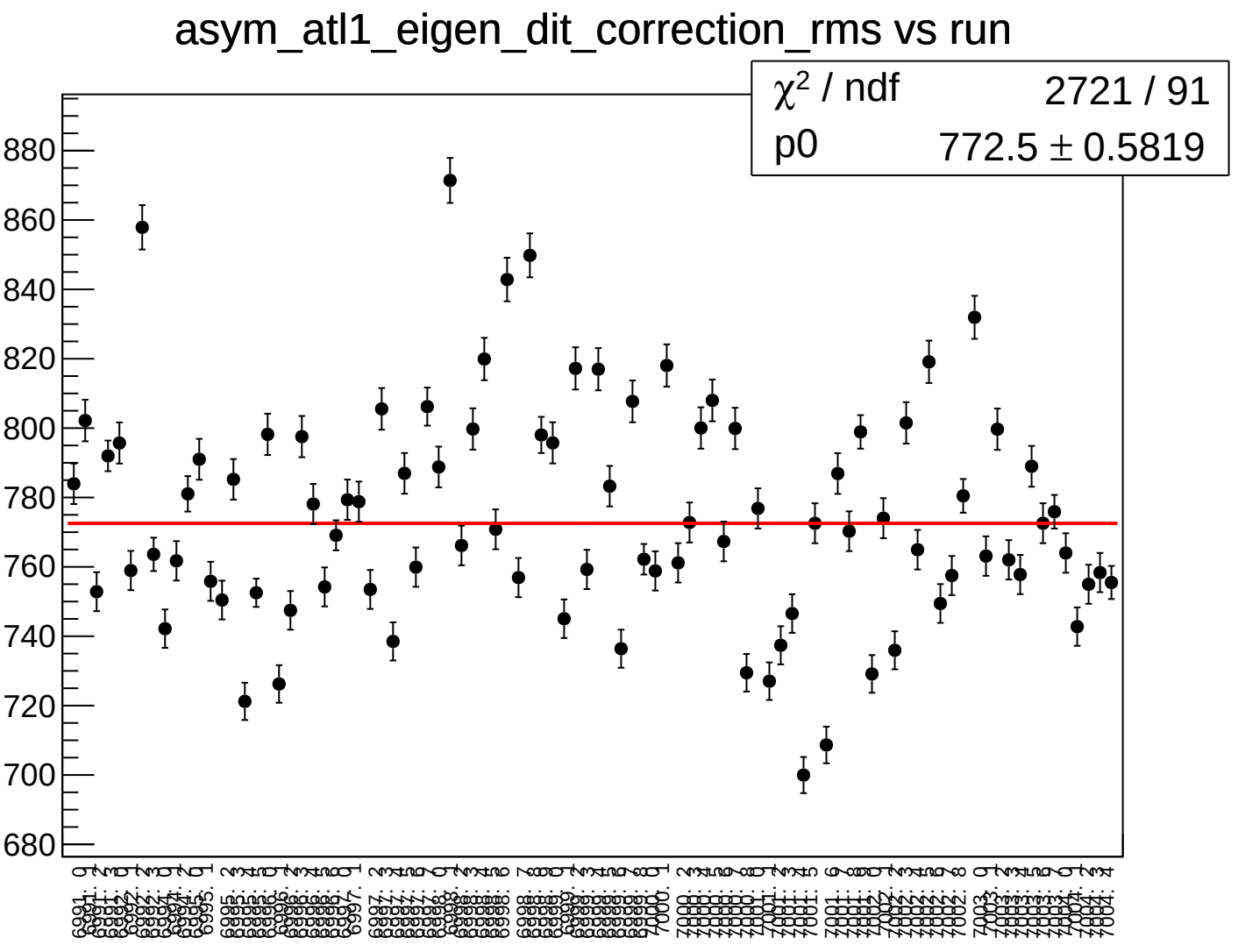

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 90.44 / 91
p0 −6317 ± 2625
pull
Entries 92
Mean −300.2
Std Dev 0

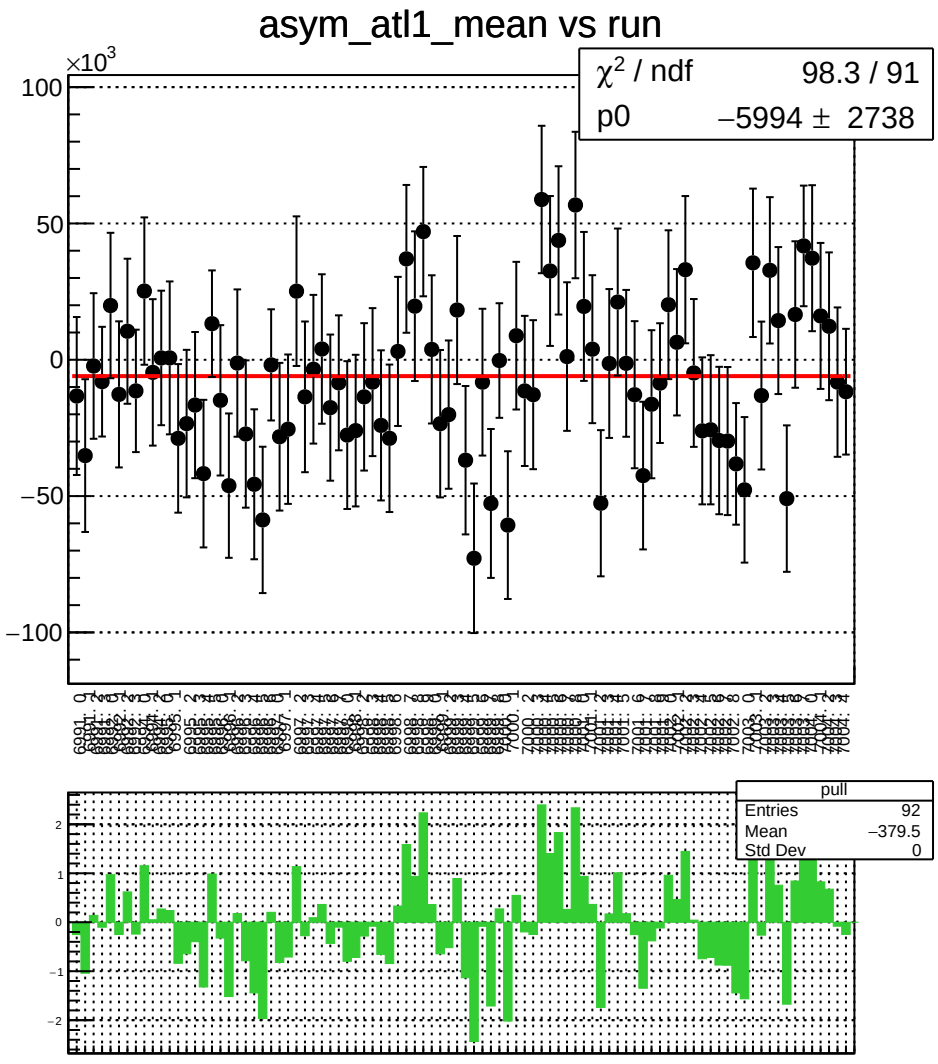

pull1D
Entries 92
Mean −0.007654
Std Dev 0.9915

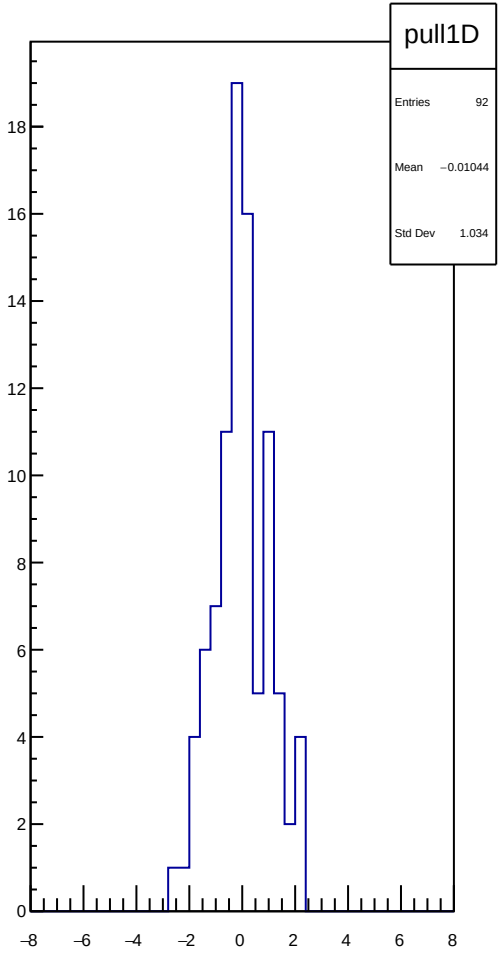

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 339.2 / 91
p0 2466 ± 1.856
2700
2650
2600
2550
2500
2450
2400
2350

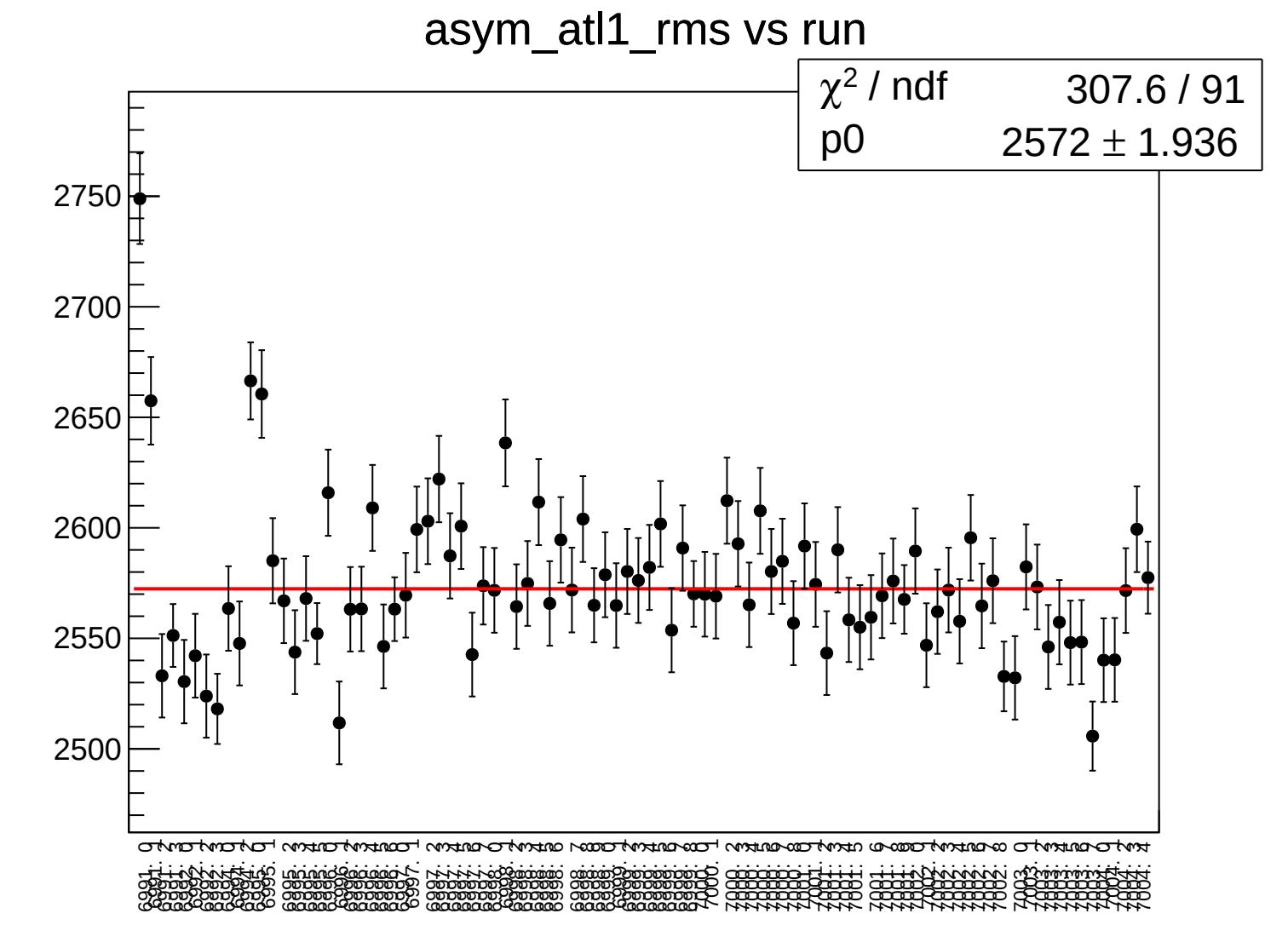

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 102.5 / 91
p0 −208 ± 822.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1885
Std Dev 0
3
2
1
0
−1
−2
−3

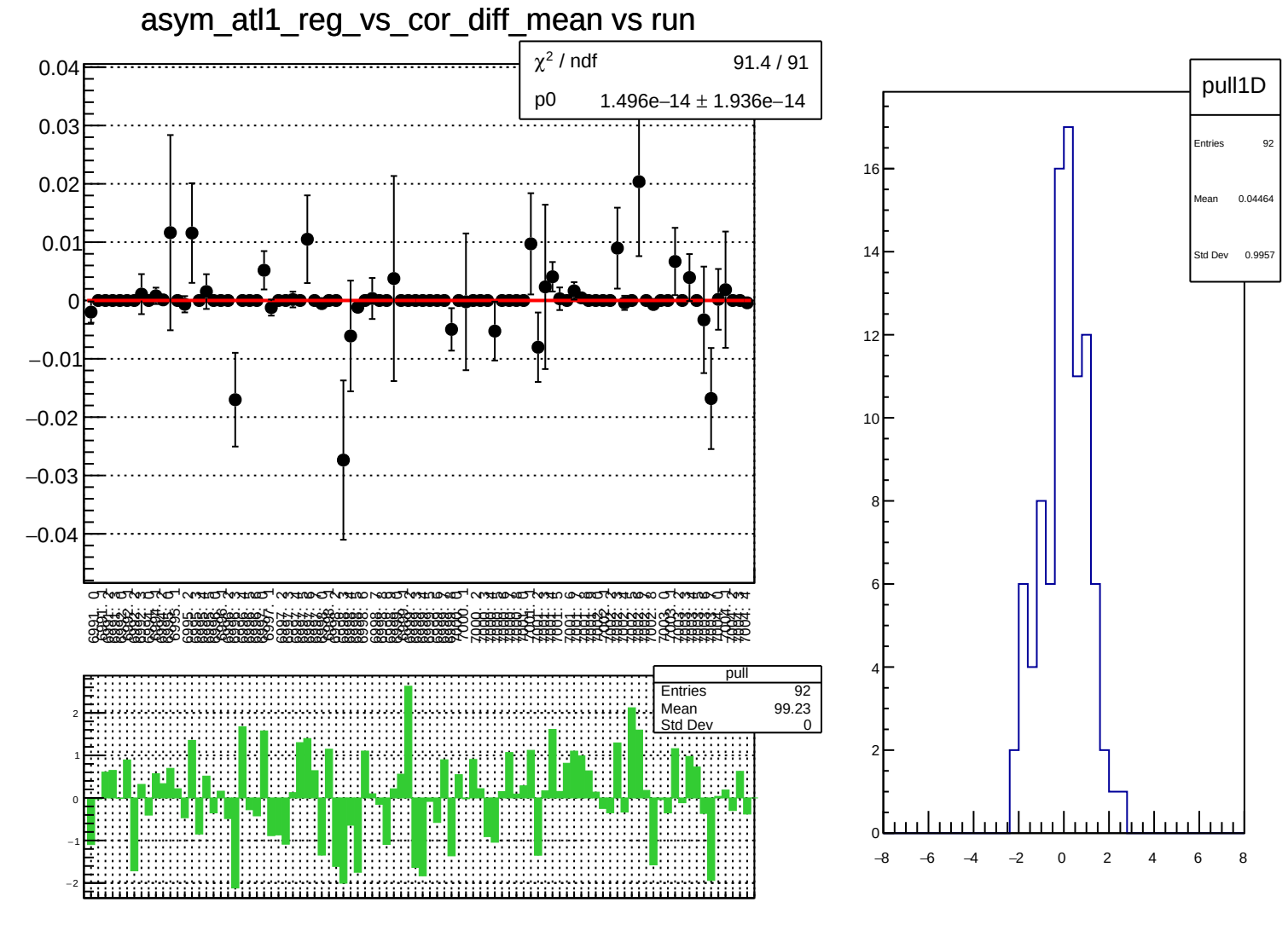

pull1D
Entries 92
Mean 0.003251
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

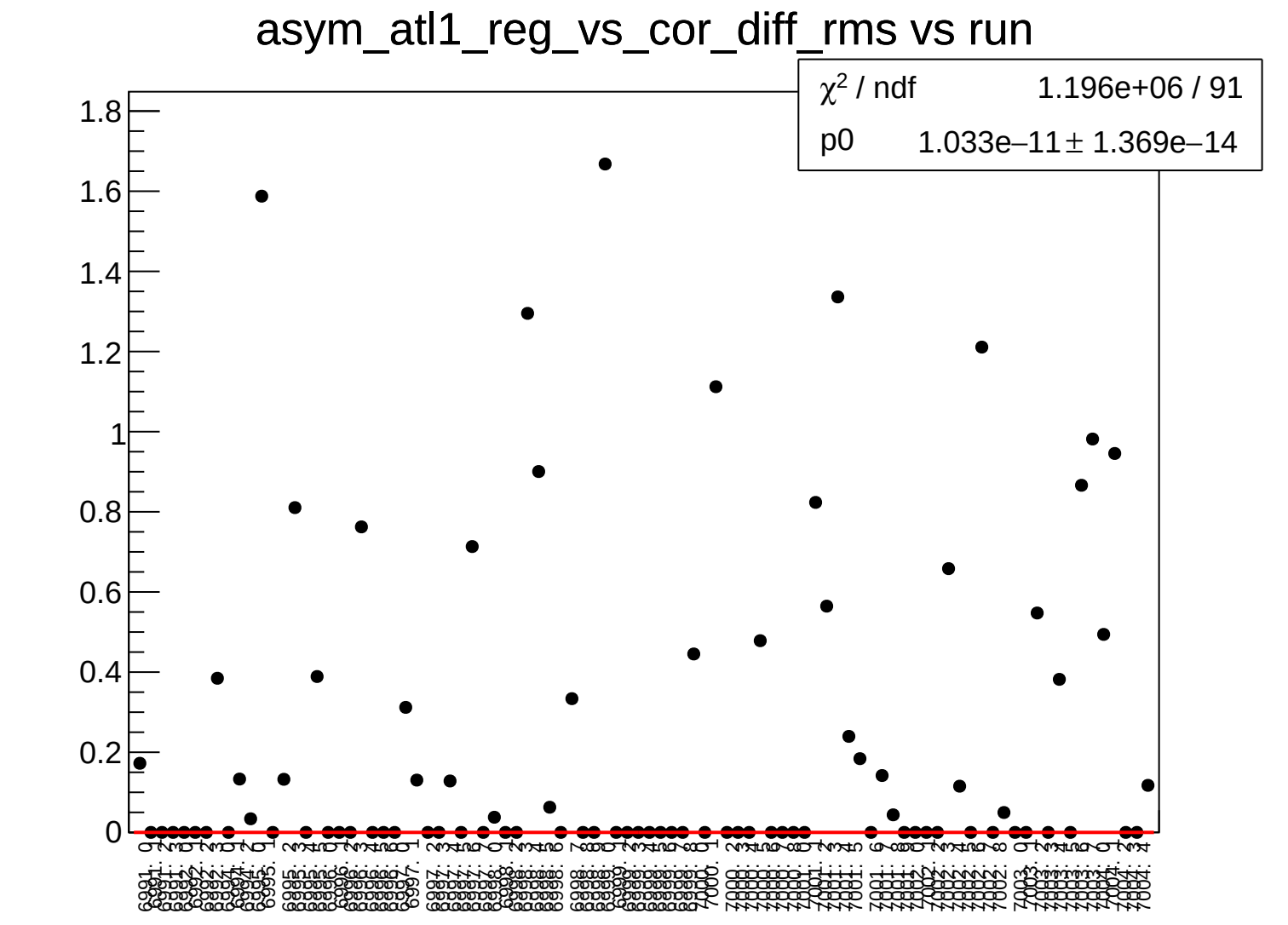

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2721 / 91
p0 772.5 ± 0.5819
880
860
840
820
800
780
760
740
720
700
680

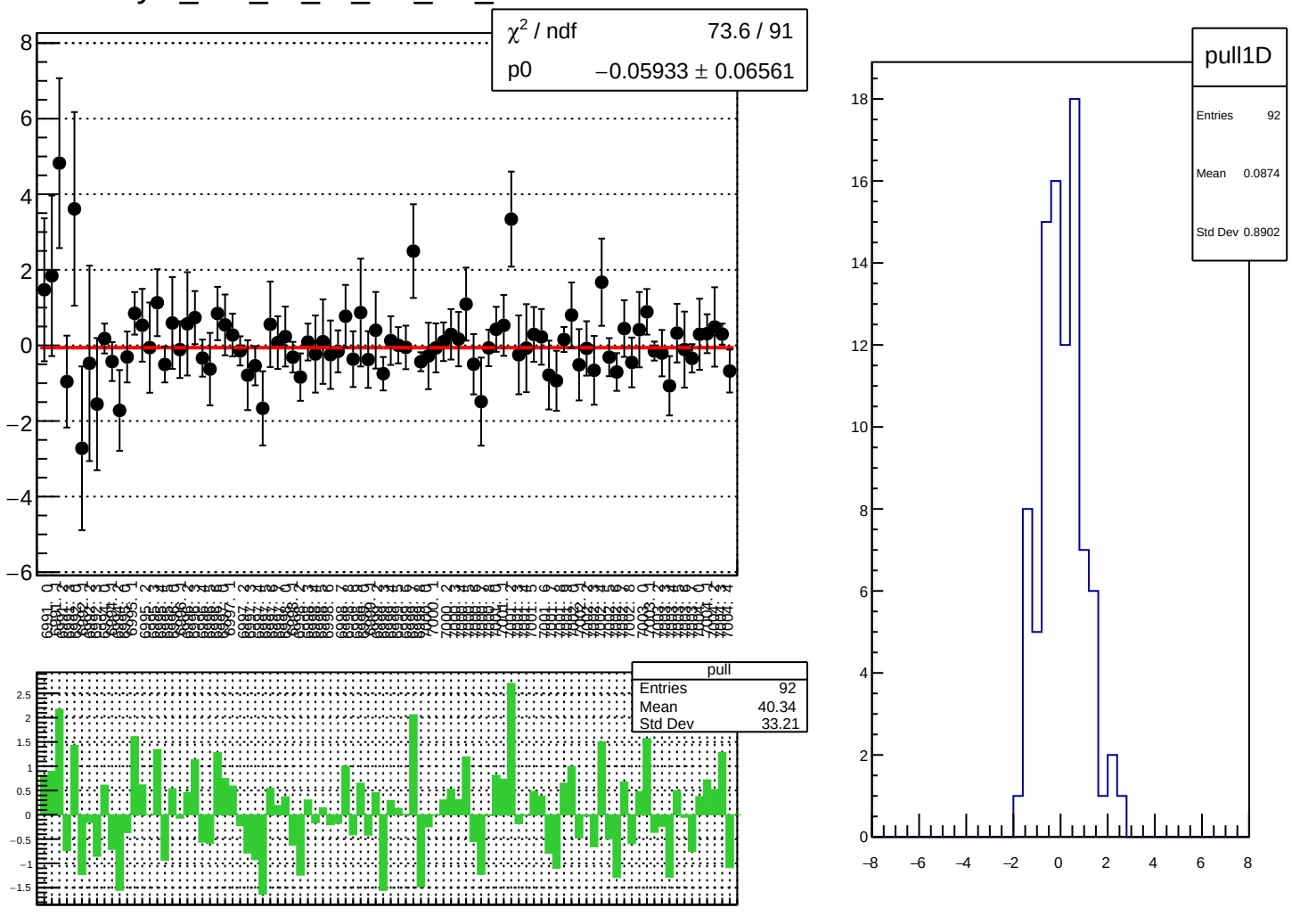

asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 98.3 / 91
p0 −5994 ± 2738
pull
Entries 92
Mean −379.5
Std Dev 0
2
1
0
−1
−2

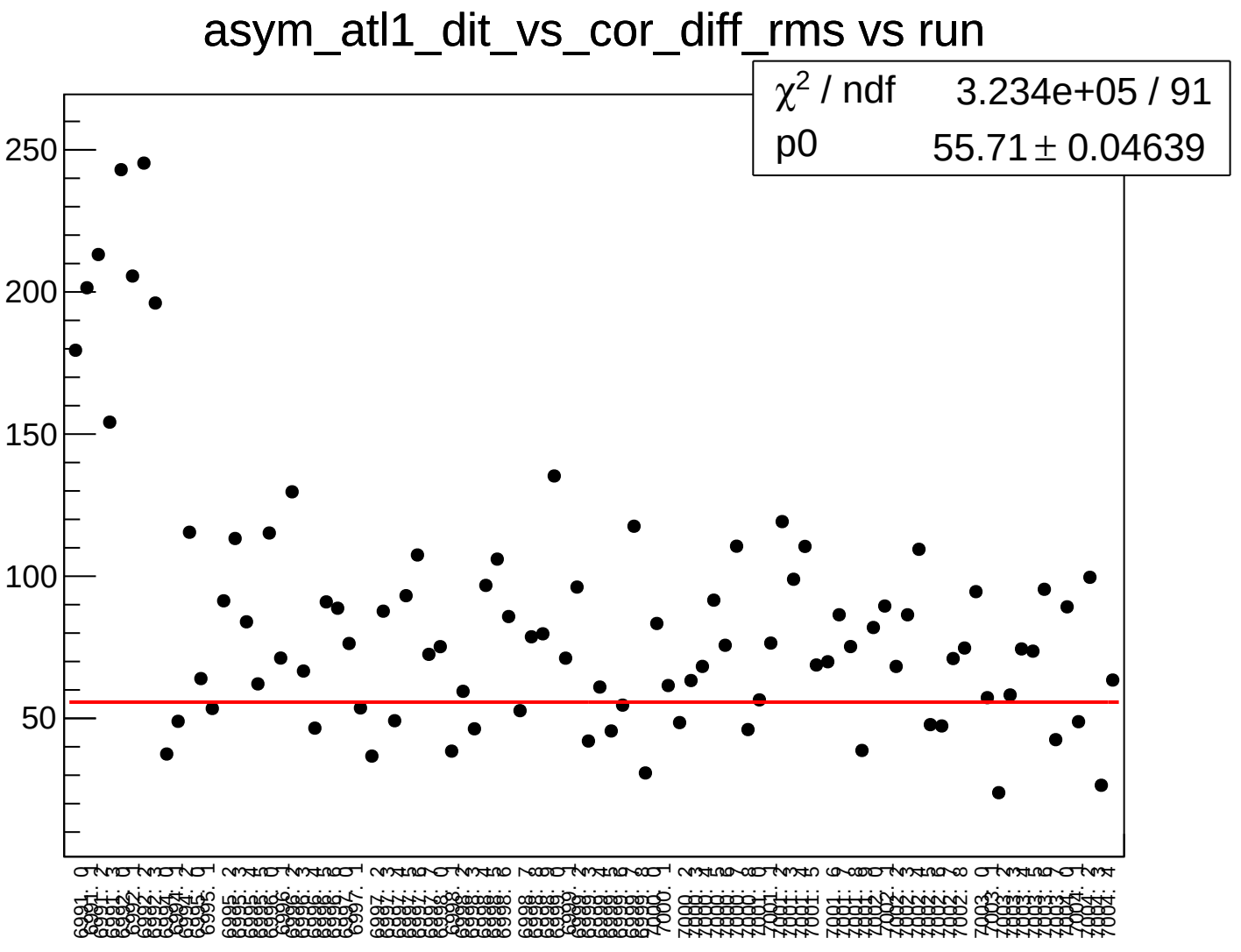

pull1D
Entries 92
Mean −0.01044
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

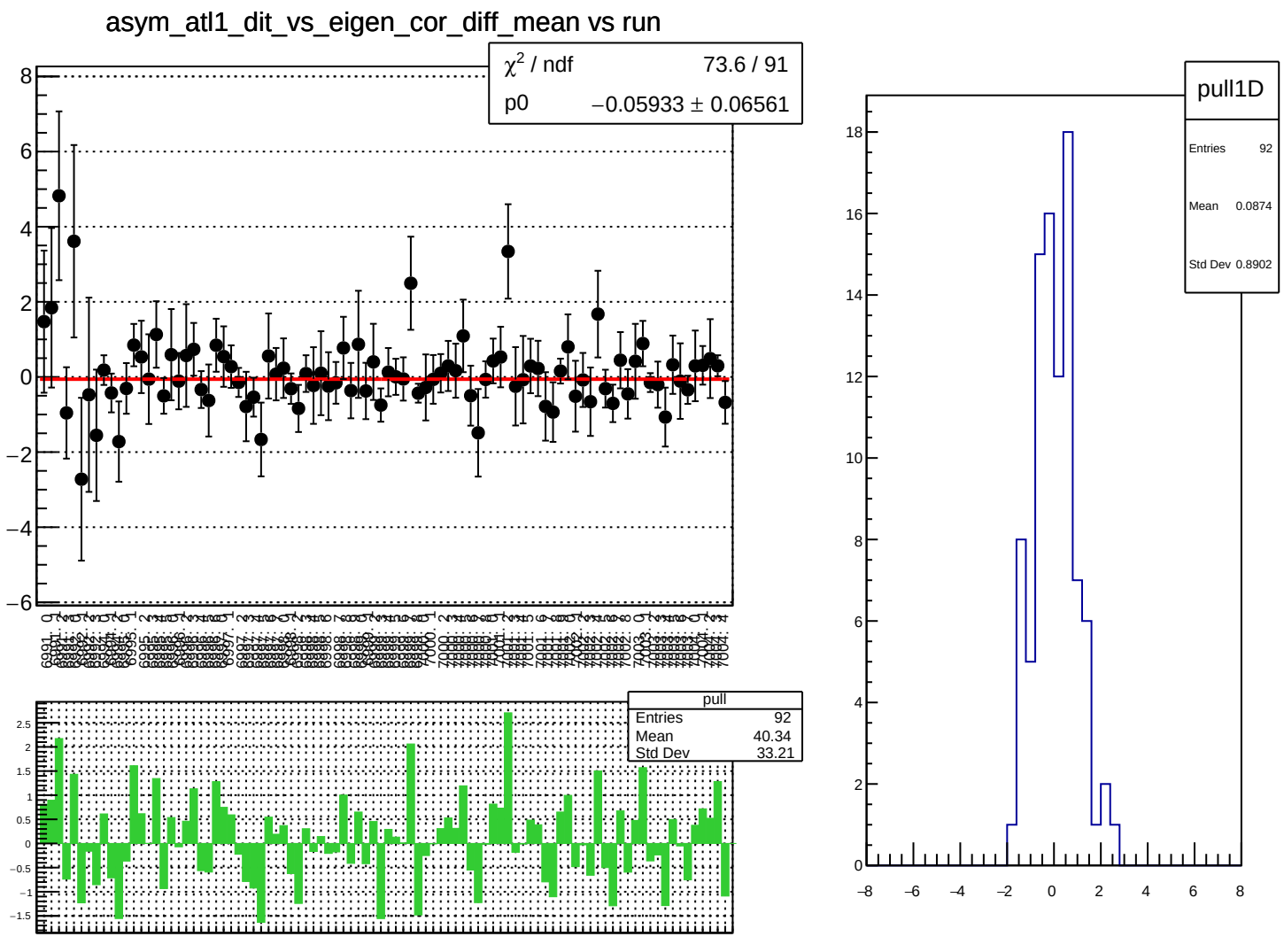

asym_atl1_rms vs run
χ² / ndf 307.6 / 91
p0 2572 ± 1.936
2750
2700
2650
2600
2550
2500

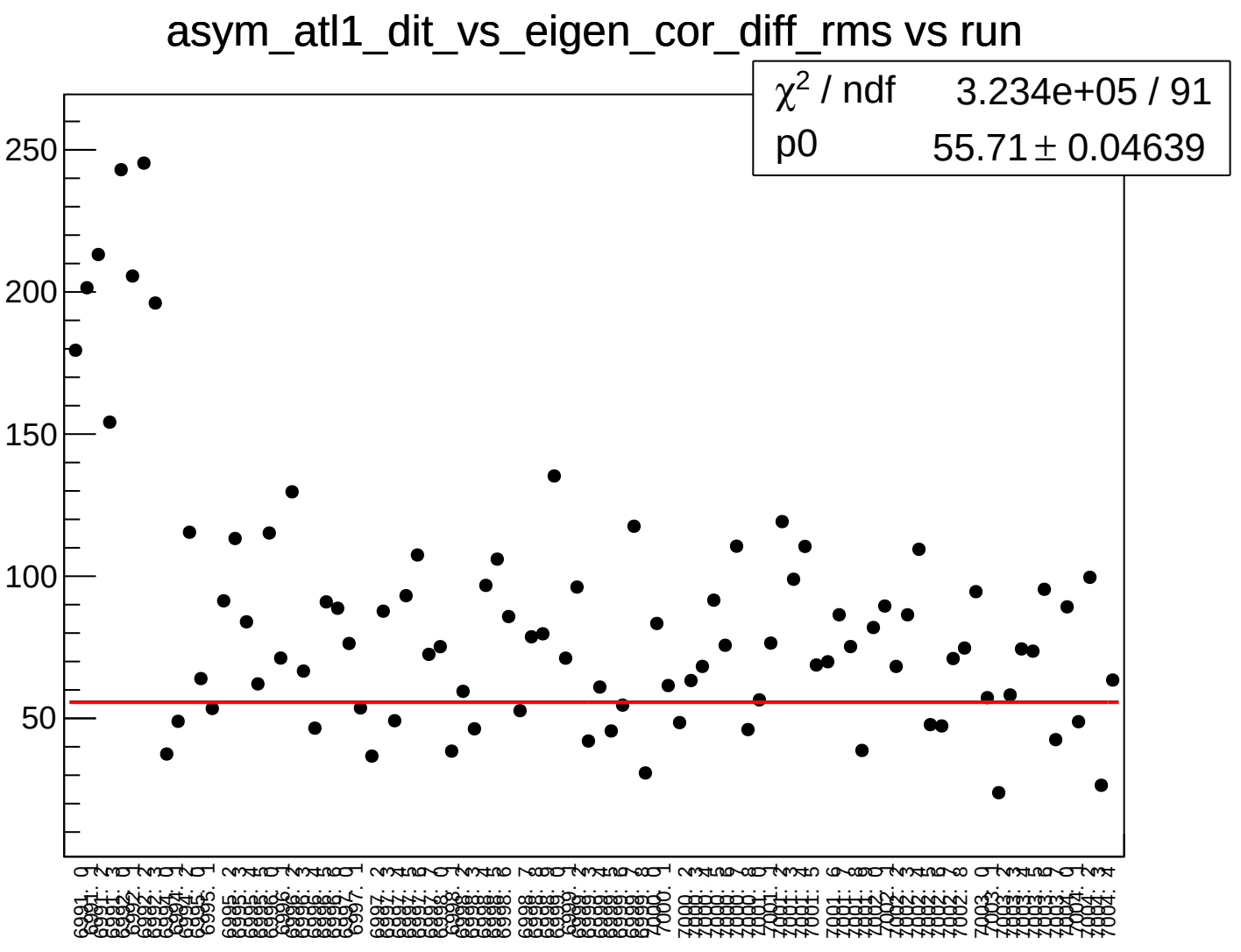

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 91.4 / 91
p0 1.496e−14 ± 1.936e−14
pull
Entries 92
Mean 99.23
Std Dev 0
pull1D
Entries 92
Mean 0.04464
Std Dev 0.9957

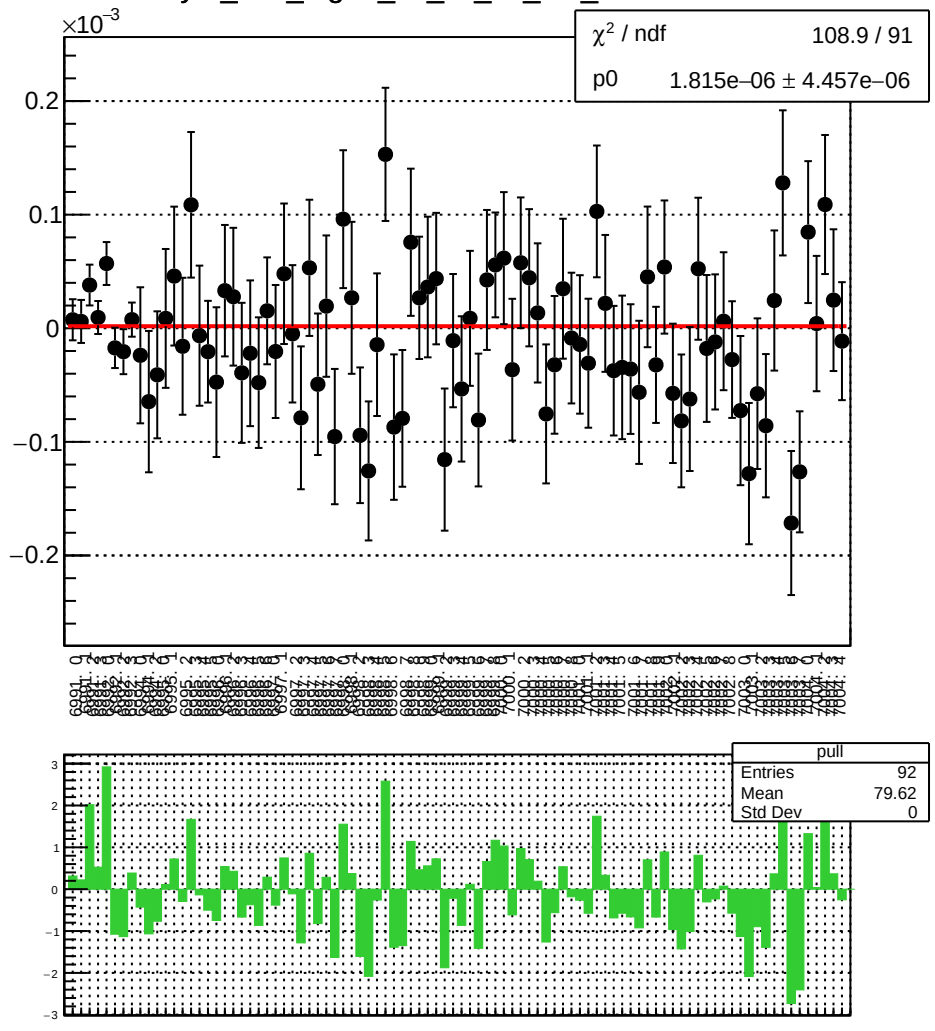

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.196e+06 / 91
p0 1.033e−11 ± 1.369e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

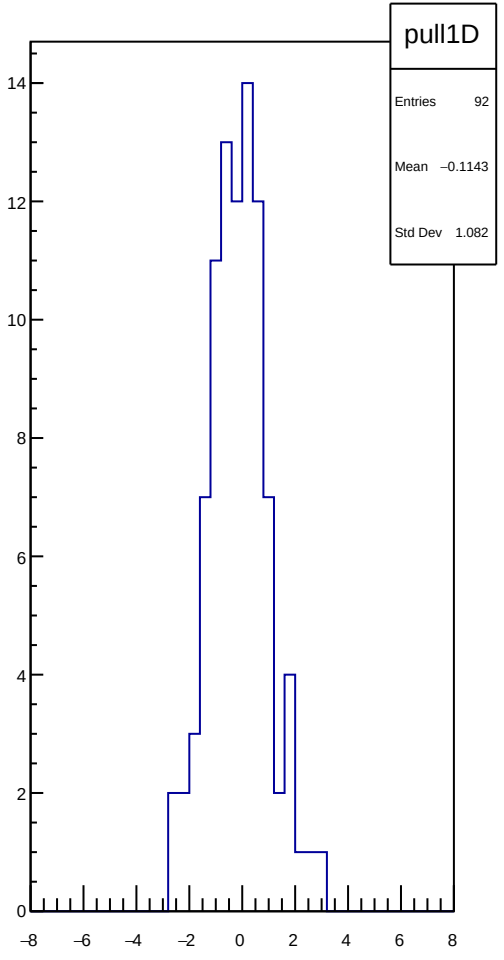

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 73.6 / 91
p0 −0.05933 ± 0.06561
pull
Entries 92
Mean 40.34
Std Dev 33.21
pull1D
Entries 92
Mean 0.0874
Std Dev 0.8902

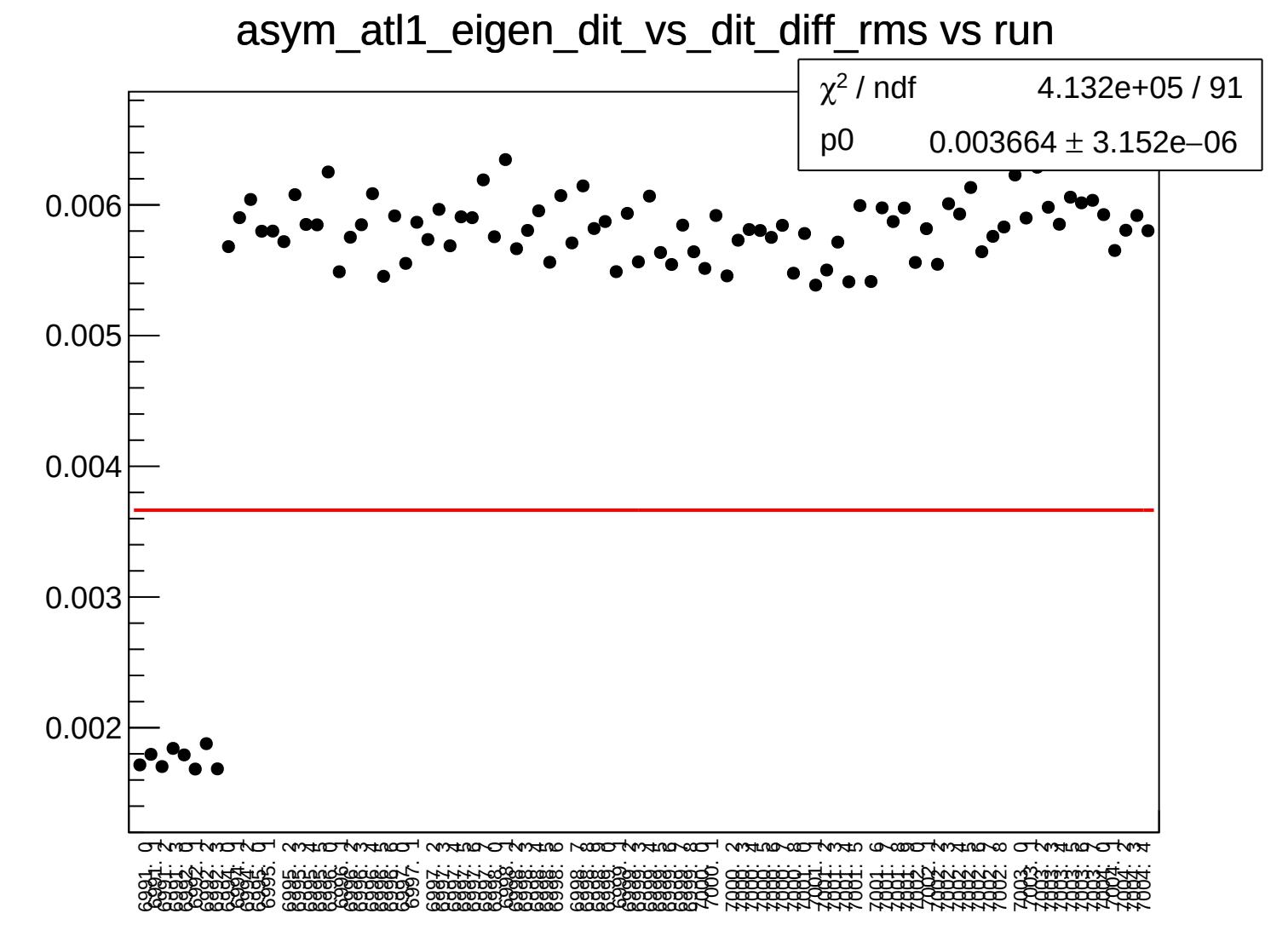

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.234e+05 / 91
p0 55.71 ± 0.04639
250
200
150
100
50

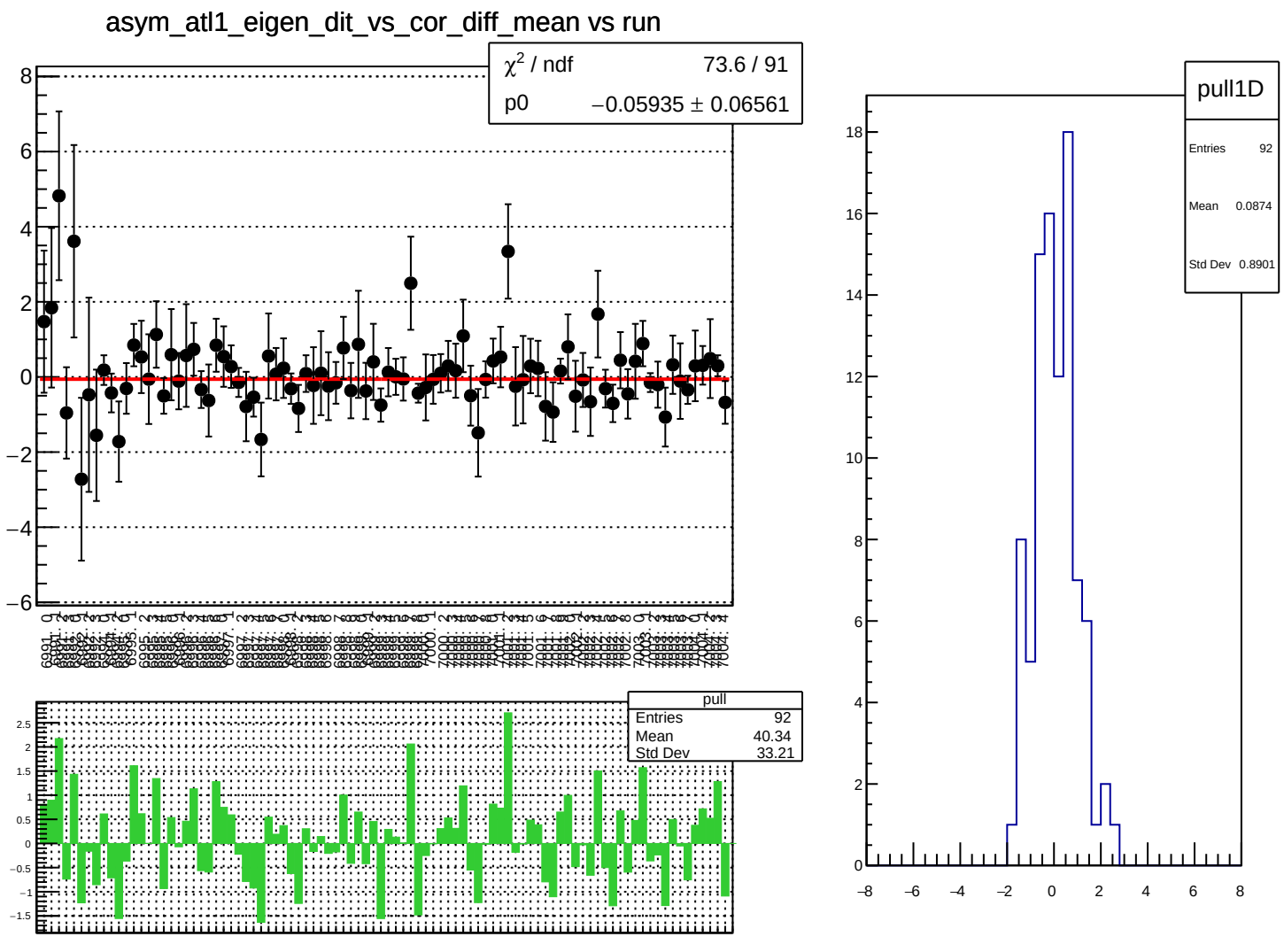

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.6 / 91
p0 −0.05933 ± 0.06561
pull
Entries 92
Mean 40.34
Std Dev 33.21
pull1D
Entries 92
Mean 0.0874
Std Dev 0.8902

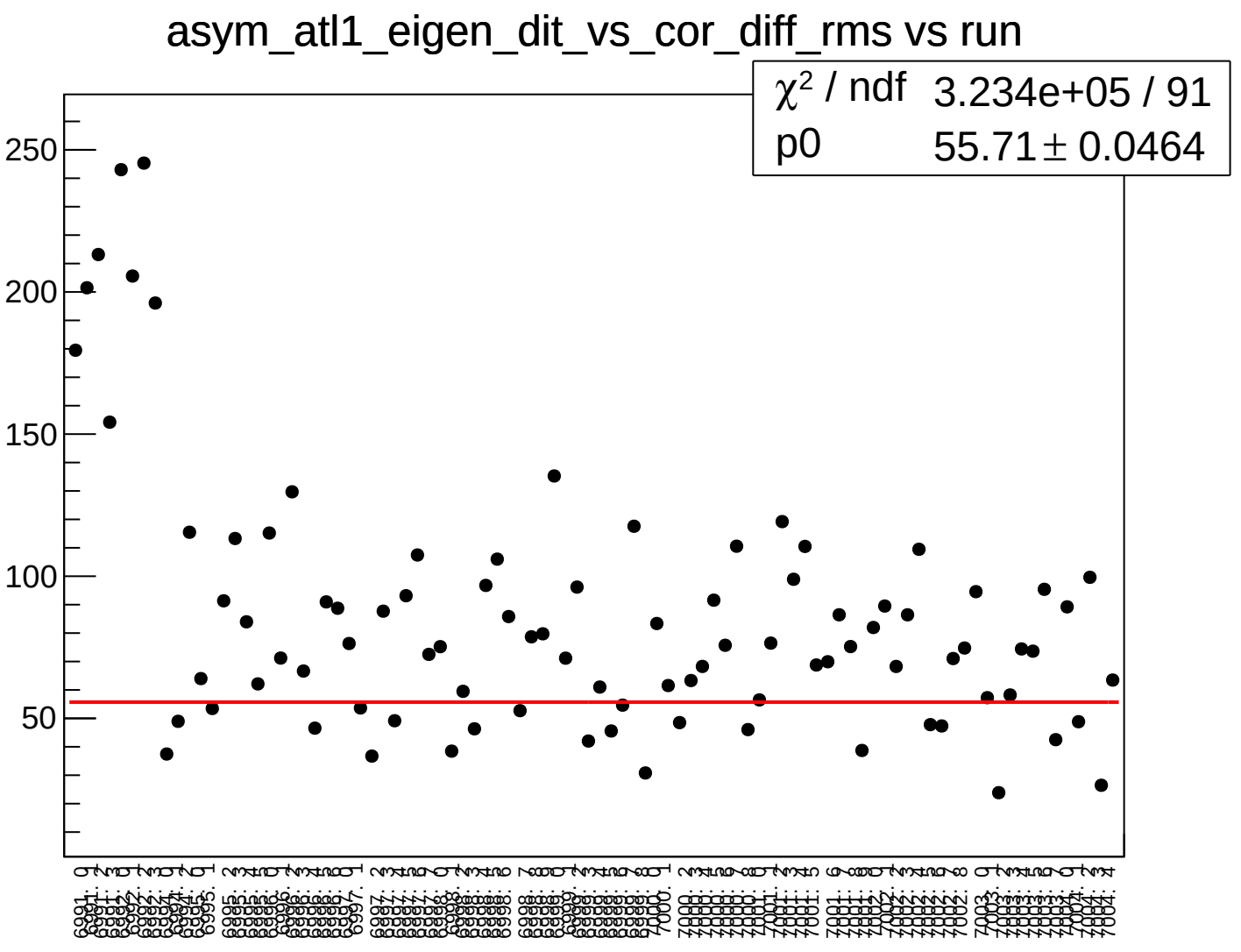

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.234e+05 / 91
p0 55.71 ± 0.04639
250
200
150
100
50

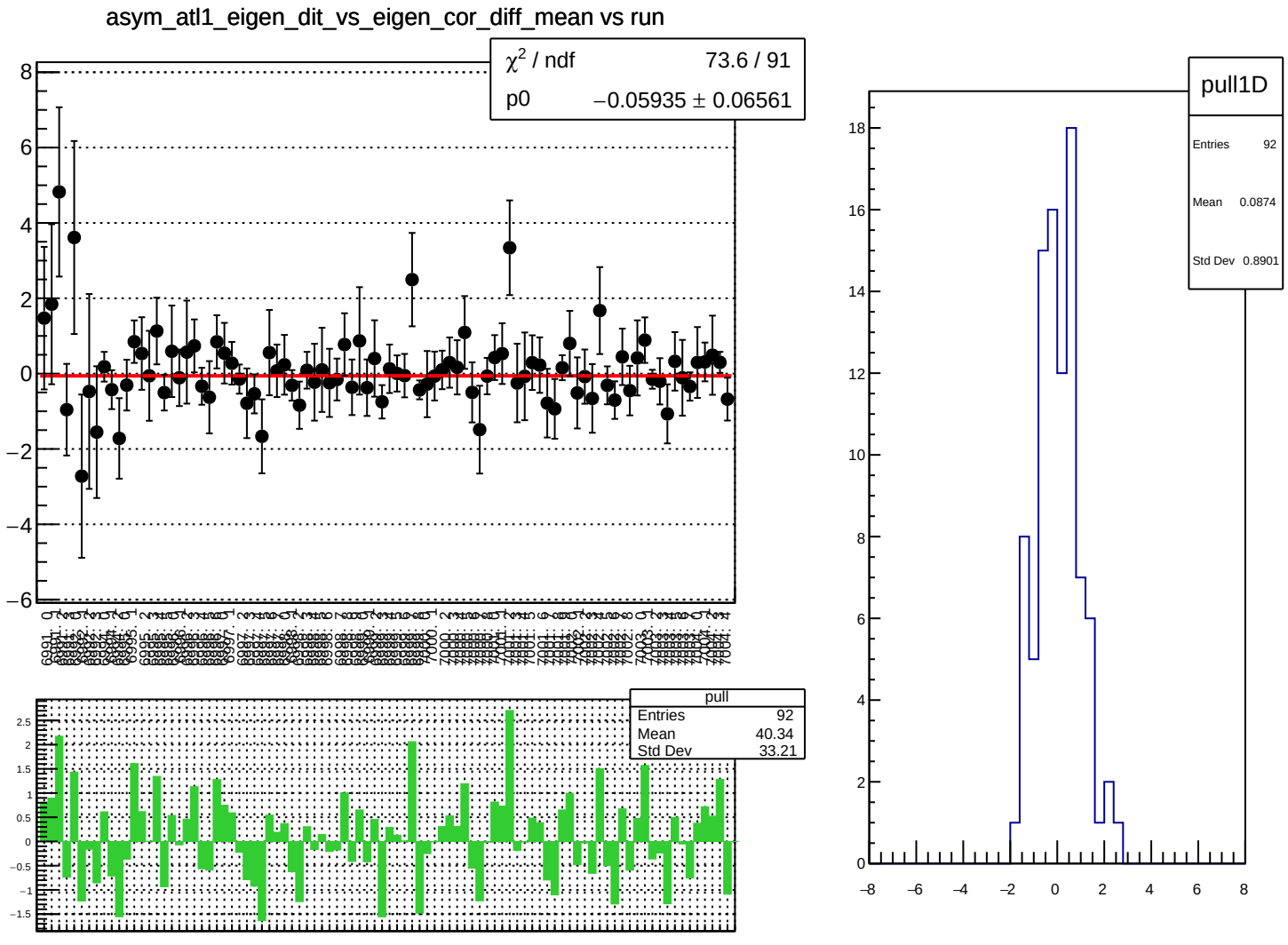

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.9 / 91
p0 1.815e−06 ± 4.457e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean 79.62
Std Dev 0
3
2
1
0
−1
−2
−3

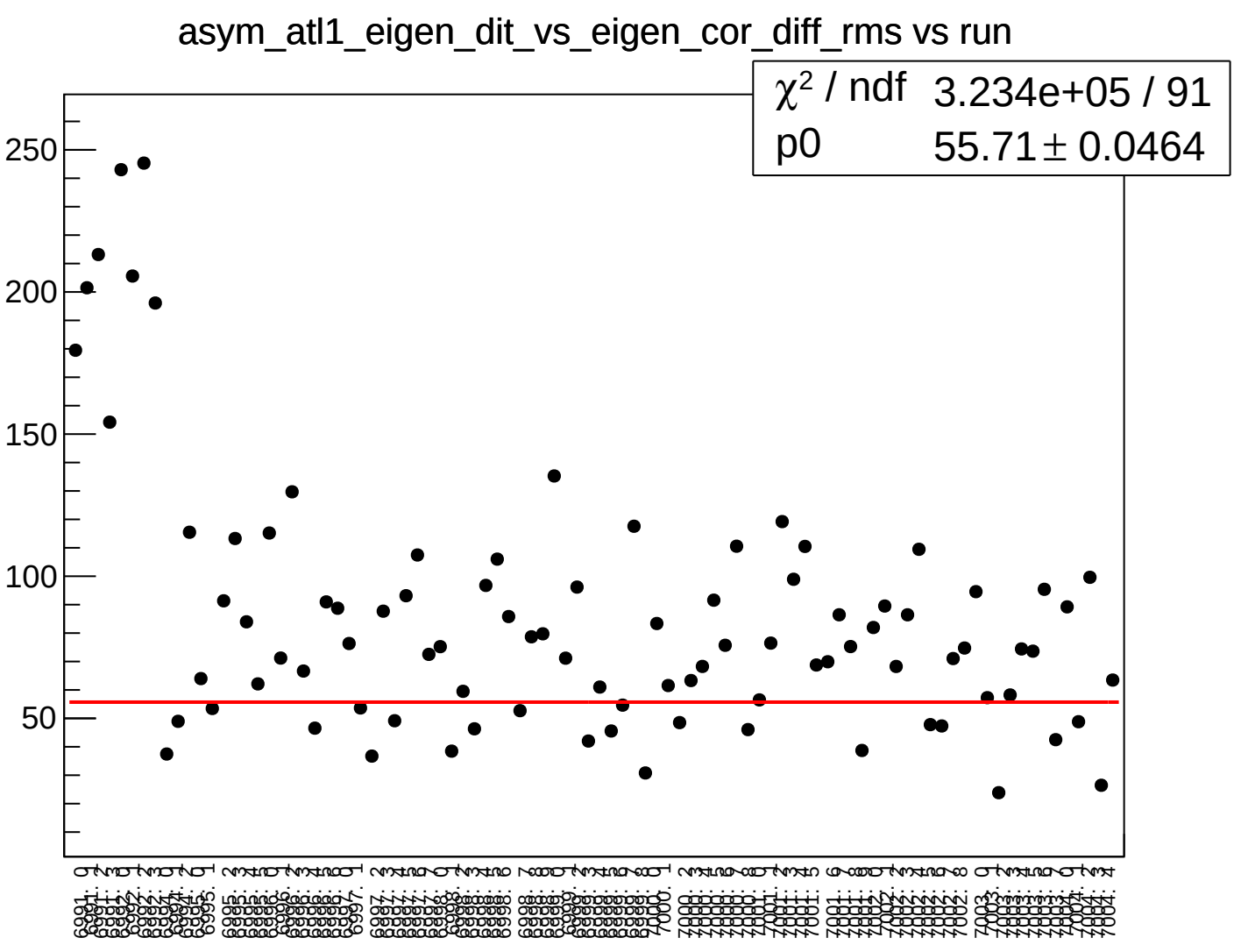

pull1D
Entries 92
Mean −0.1143
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

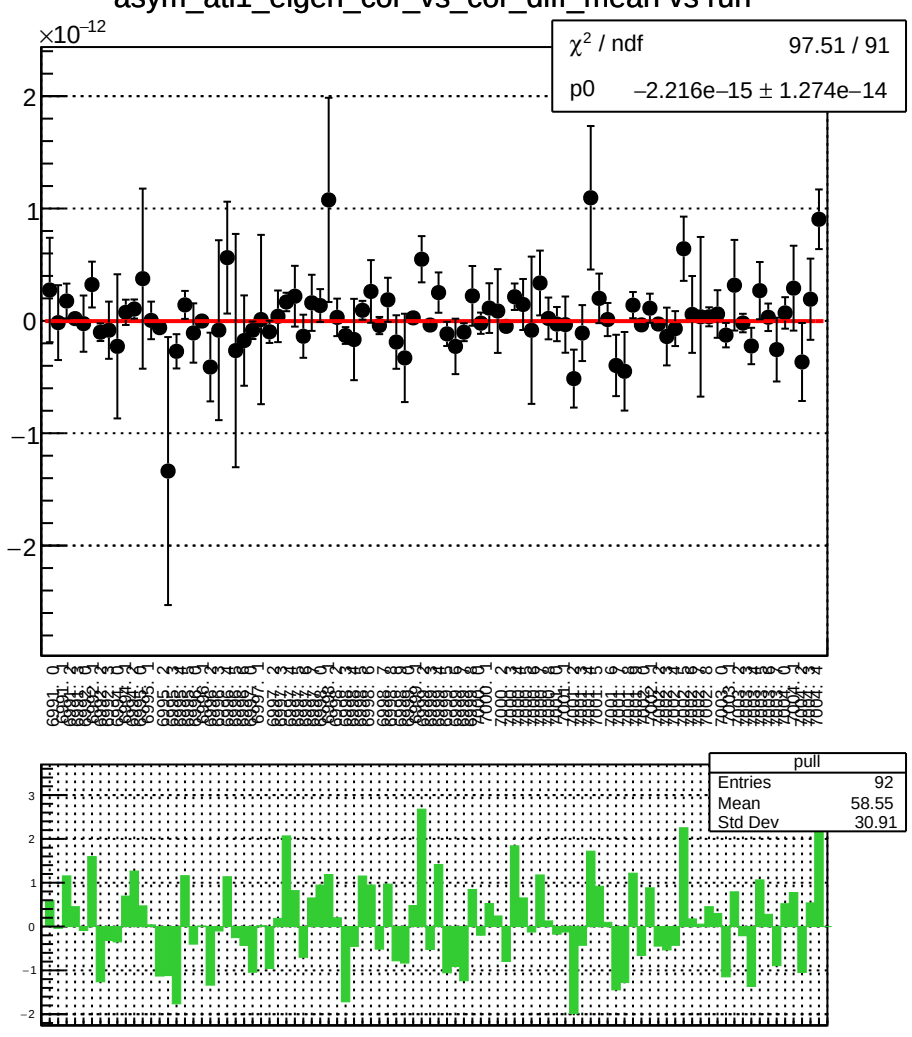

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.132e+05 / 91
p0 0.003664 ± 3.152e−06
0.006
0.005
0.004
0.003
0.002

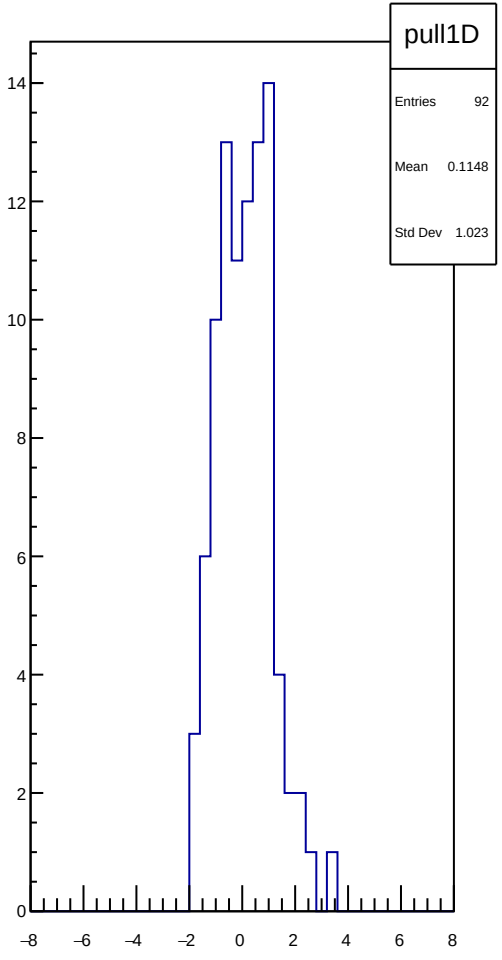

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.6 / 91
p0 −0.05935 ± 0.06561
pull
Entries 92
Mean 40.34
Std Dev 33.21
pull1D
Entries 92
Mean 0.0874
Std Dev 0.8901

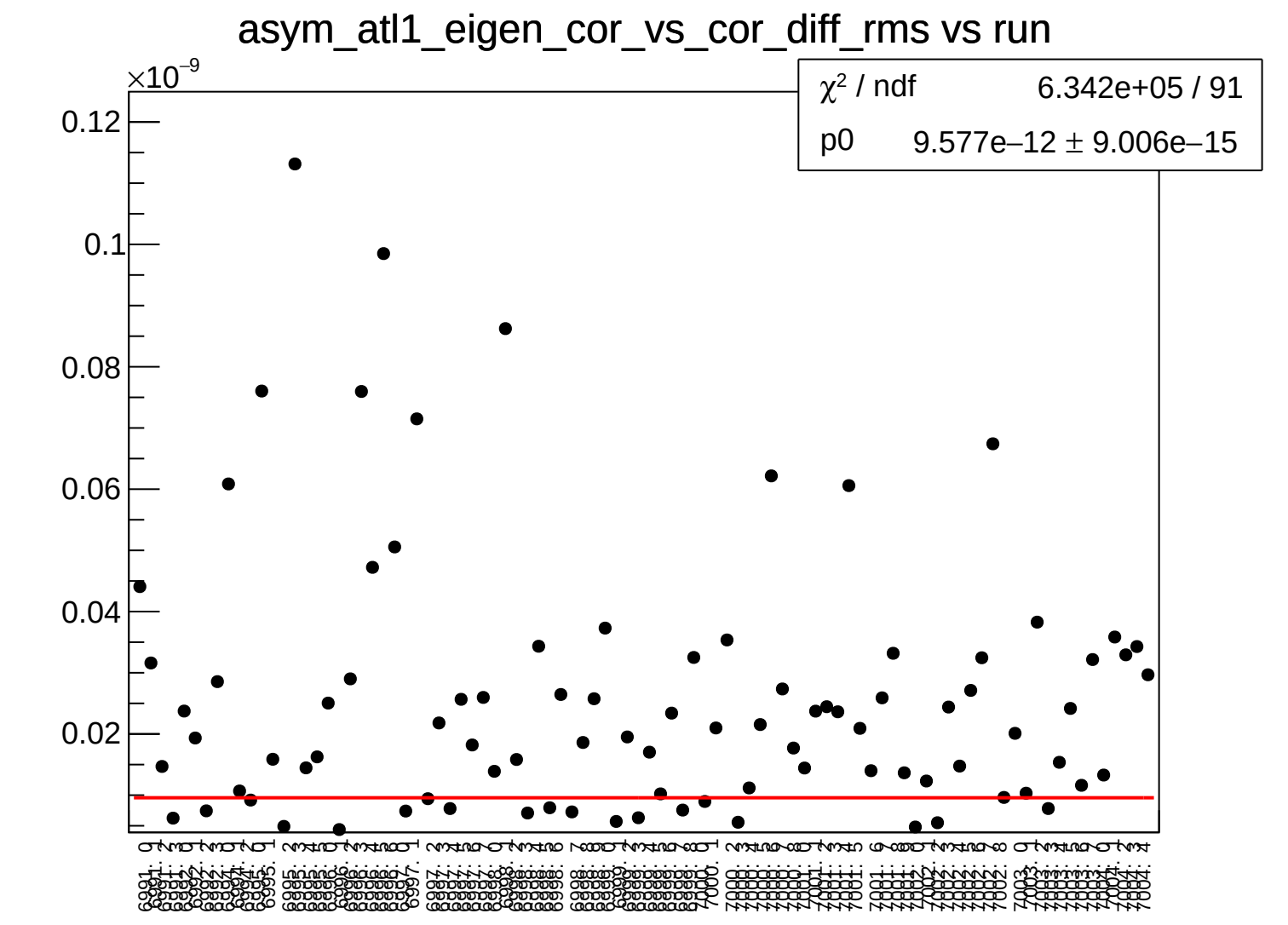

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.234e+05 / 91
p0 55.71 ± 0.0464
250
200
150
100
50

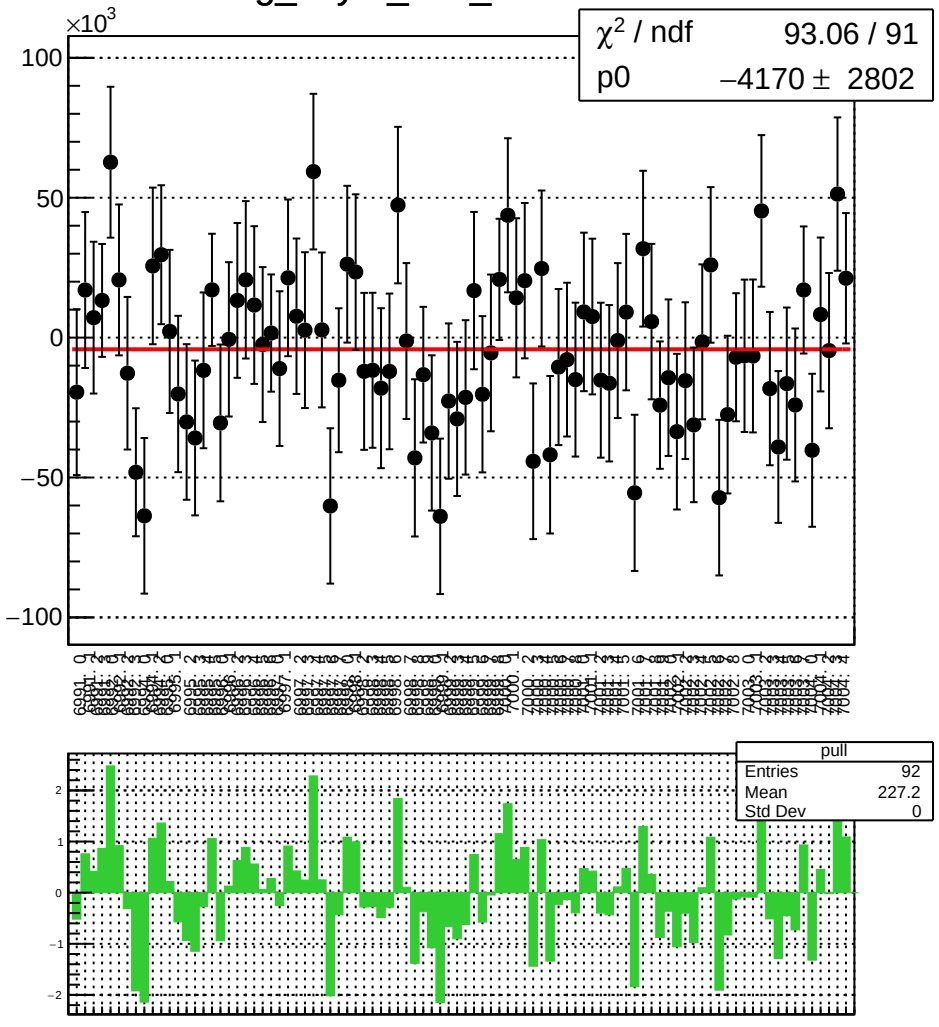

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.6 / 91
p0 −0.05935 ± 0.06561
pull
Entries 92
Mean 40.34
Std Dev 33.21
pull1D
Entries 92
Mean 0.0874
Std Dev 0.8901

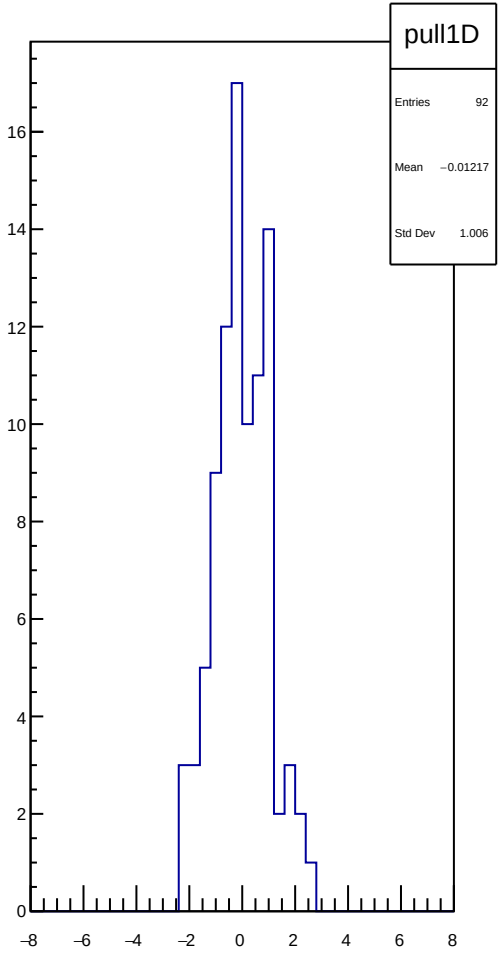

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.234e+05 / 91
p0 55.71 ± 0.0464
250
200
150
100
50

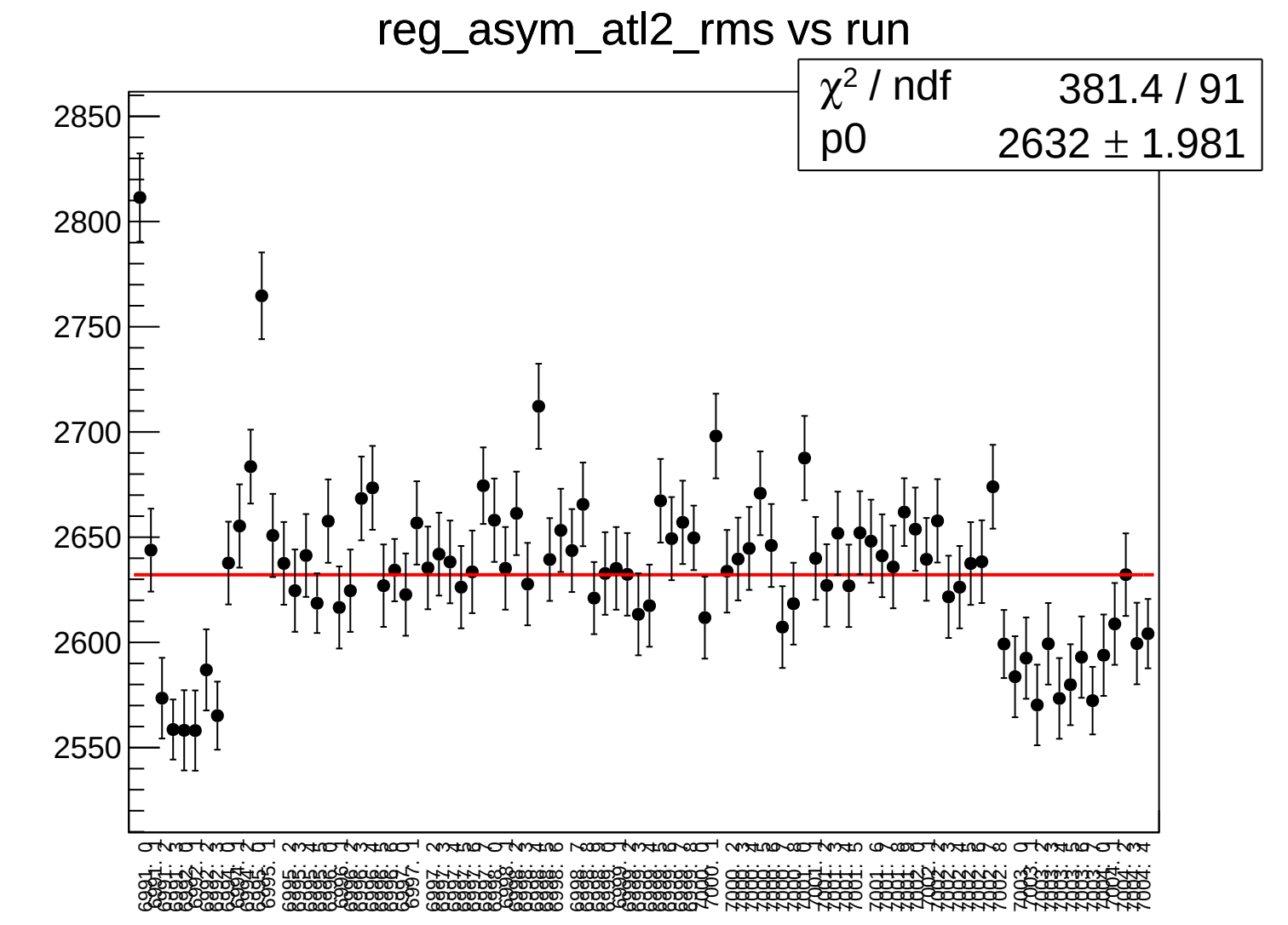

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.51 / 91
p0 −2.216e−15 ± 1.274e−14
pull
Entries 92
Mean 58.55
Std Dev 30.91

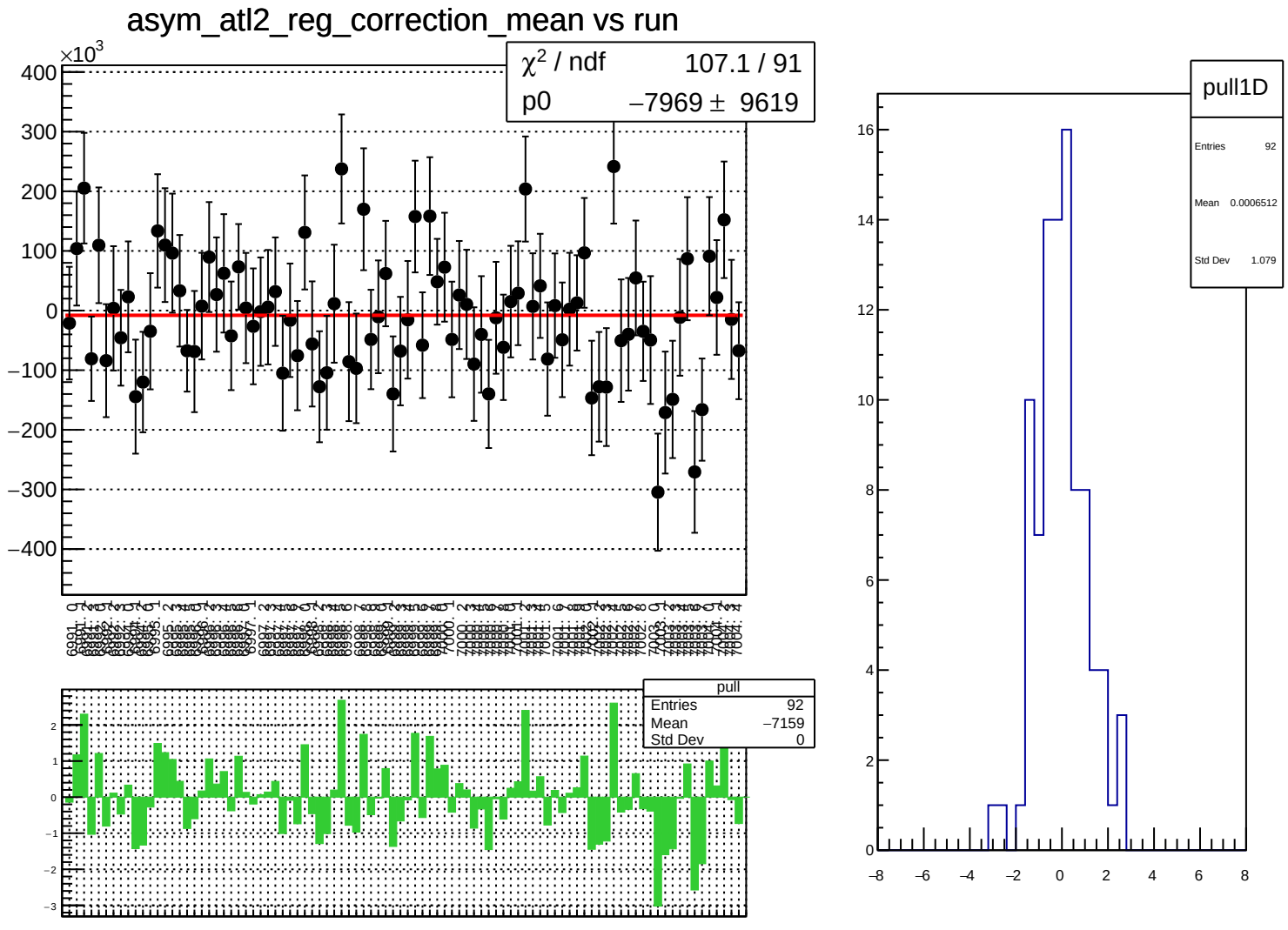

pull1D
Entries 92
Mean 0.1148
Std Dev 1.023

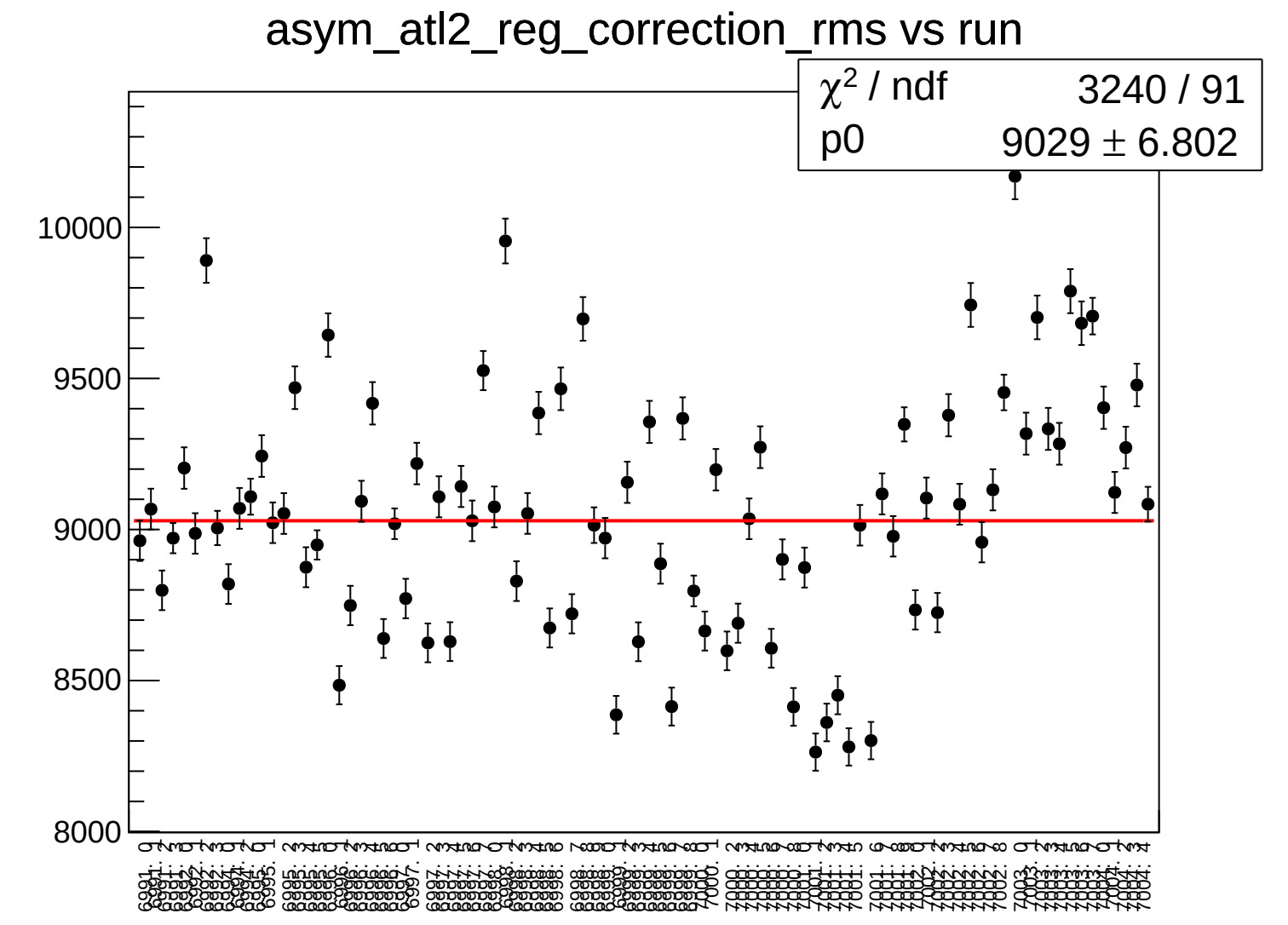

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 6.342e+05 / 91
p0 9.577e−12 ± 9.006e−15

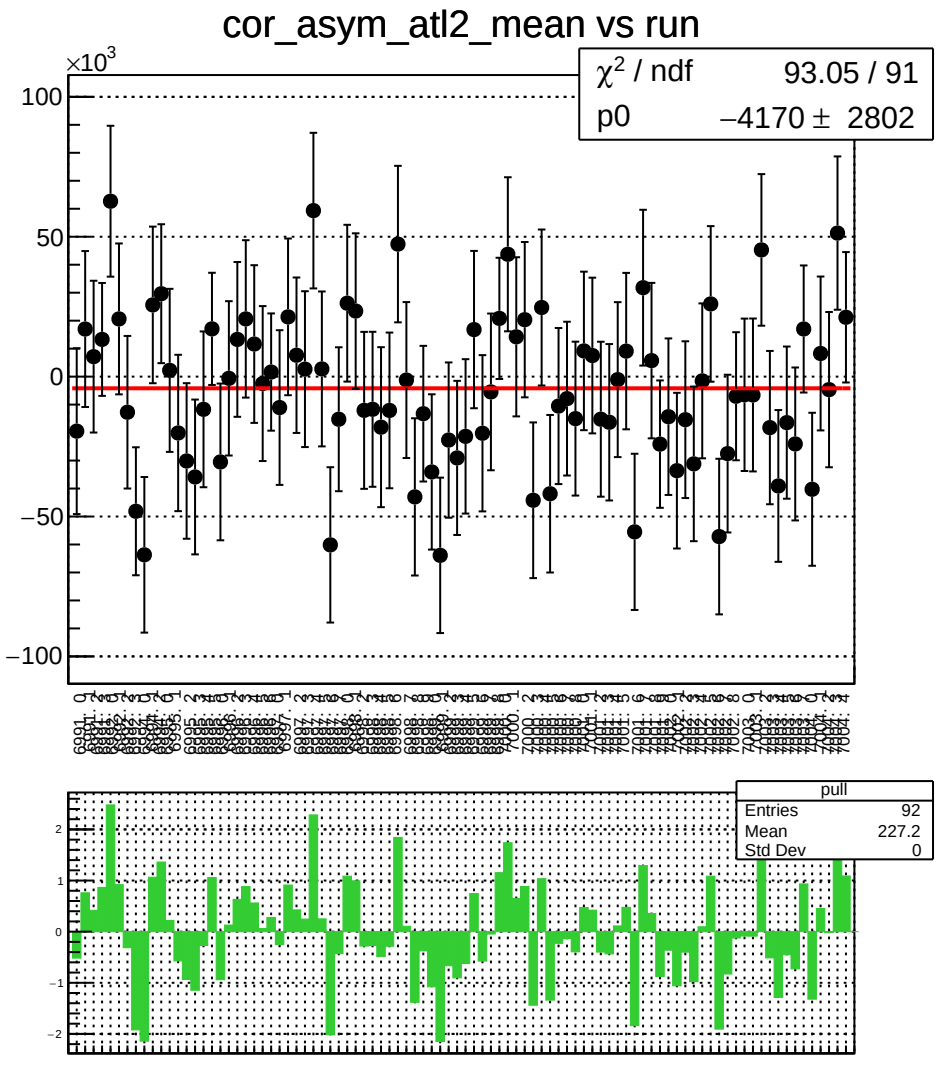

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 93.06 / 91
p0 −4170 ± 2802
100
50
0
−50
−100
pull
Entries 92
Mean 227.2
Std Dev 0
2
1
0
−1
−2

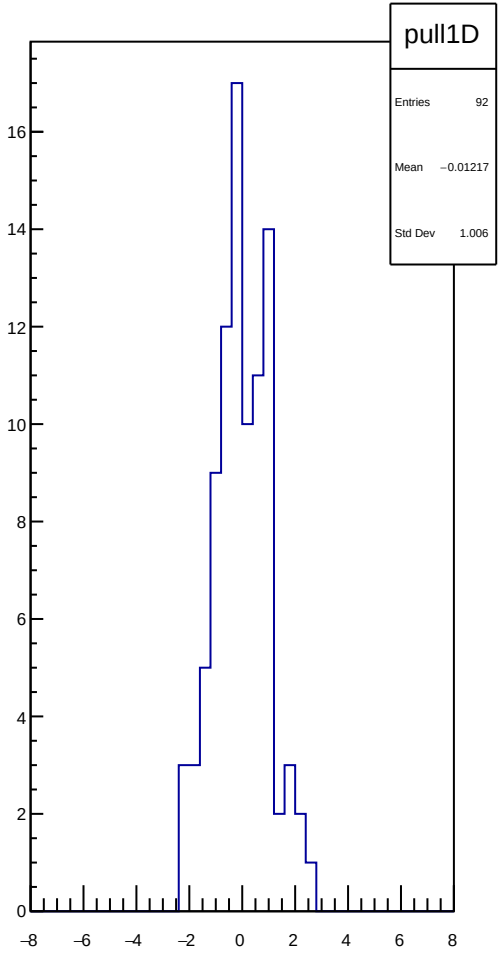

pull1D
Entries 92
Mean −0.01217
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

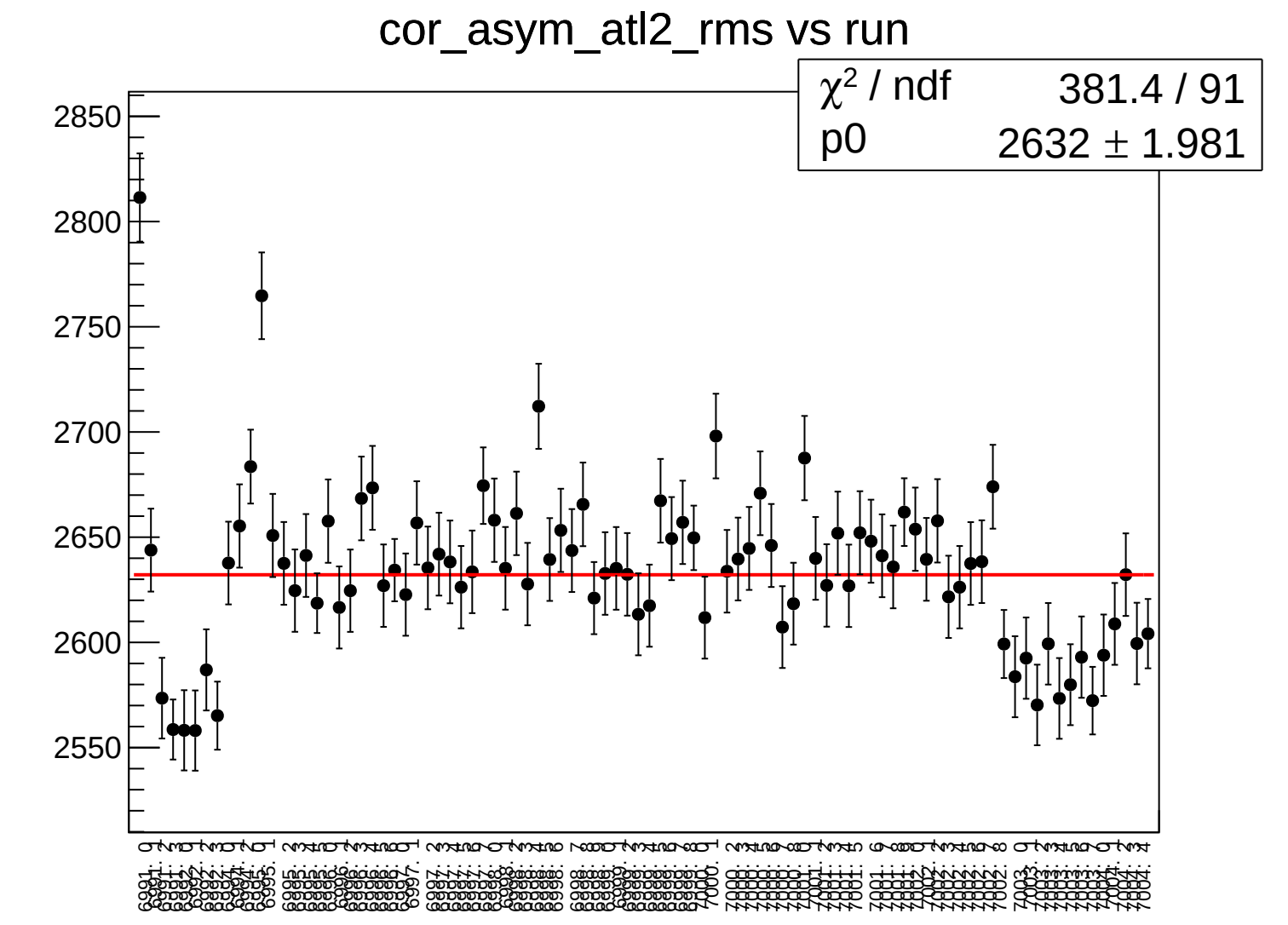

reg_asym_atl2_rms vs run
χ² / ndf 381.4 / 91
p0 2632 ± 1.981
2850
2800
2750
2700
2650
2600
2550

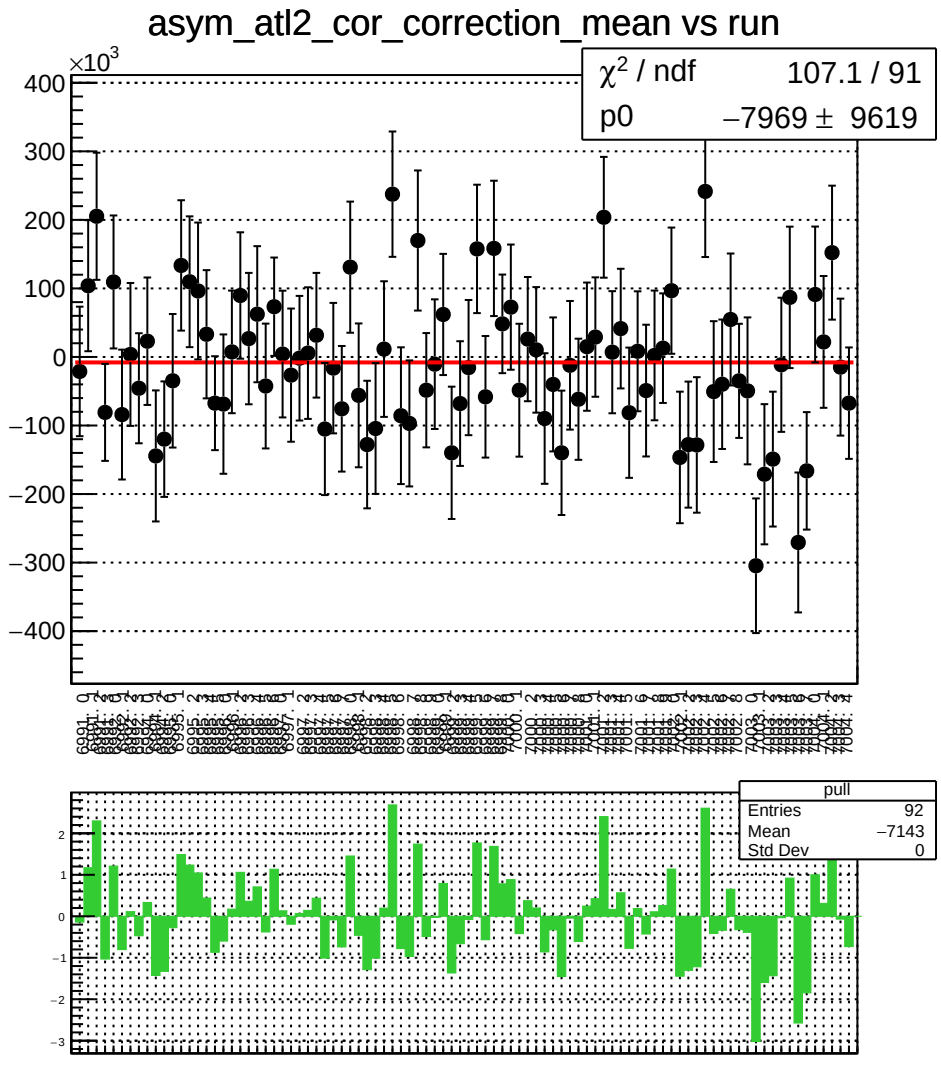

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 107.1 / 91
p0 −7969 ± 9619
pull
Entries 92
Mean −7159
Std Dev 0
pull1D
Entries 92
Mean 0.0006512
Std Dev 1.079

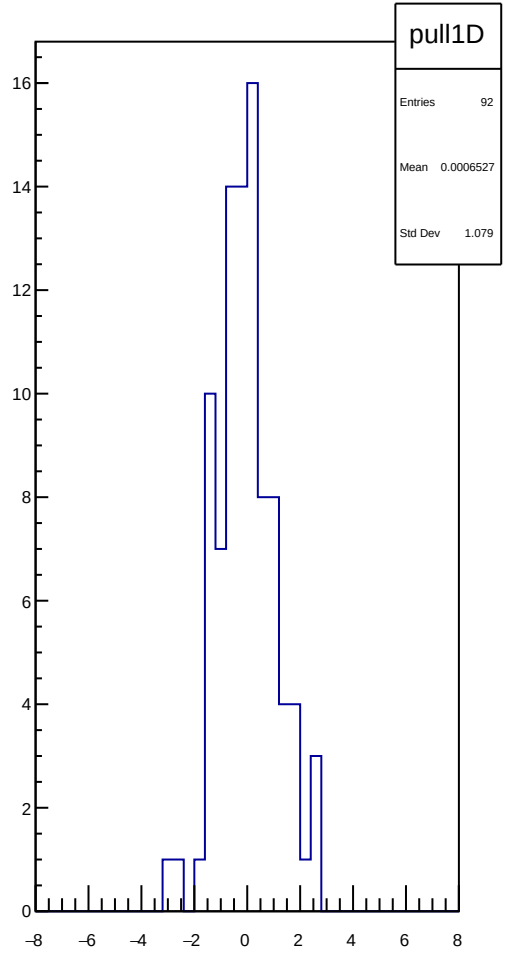

asym_atl2_reg_correction_rms vs run
χ² / ndf 3240 / 91
p0 9029 ± 6.802
10000
9500
9000
8500
8000

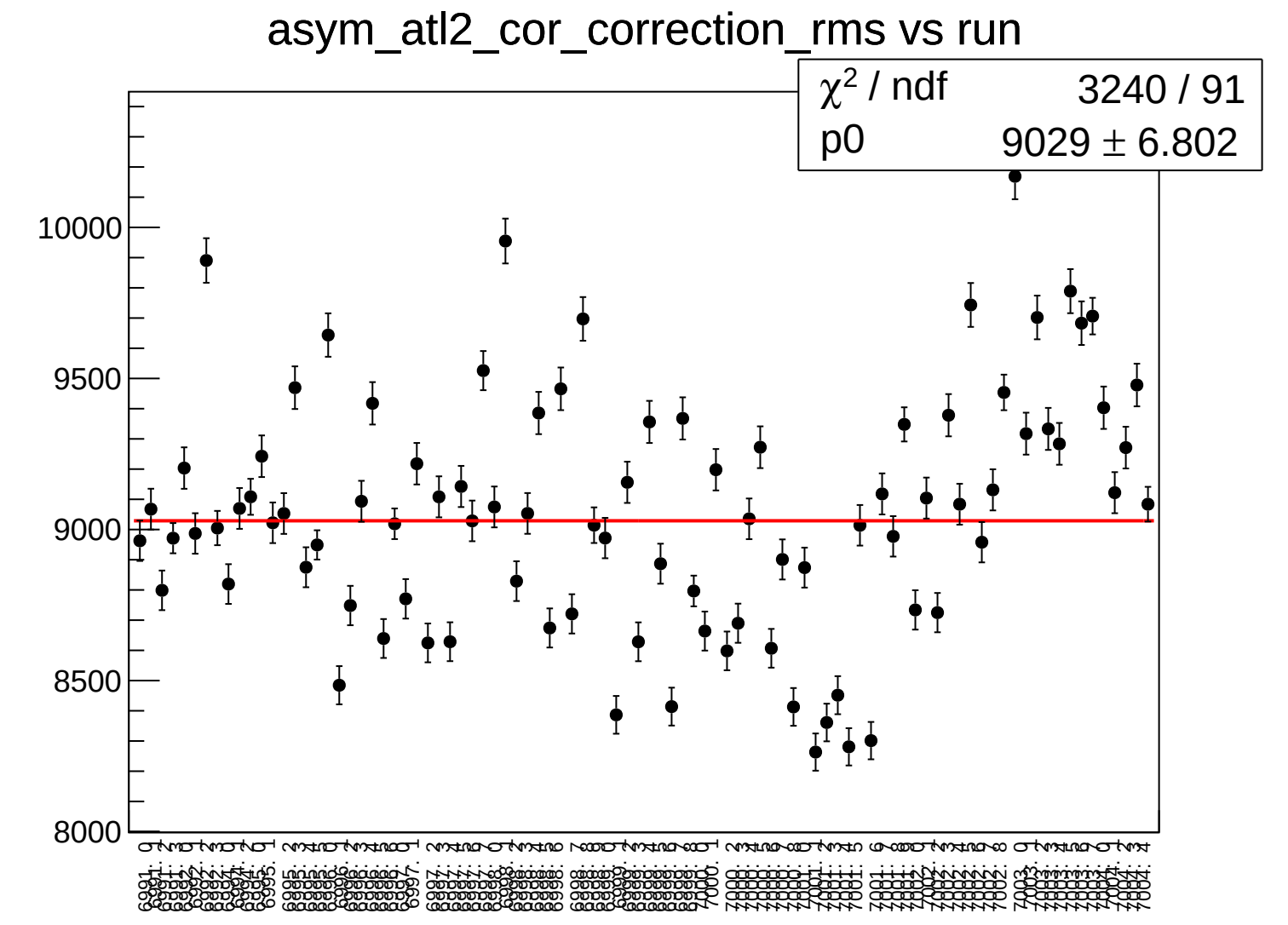

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 93.05 / 91
p0 −4170 ± 2802
100
50
0
−50
−100
pull
Entries 92
Mean 227.2
Std Dev 0
2
1
0
−1
−2

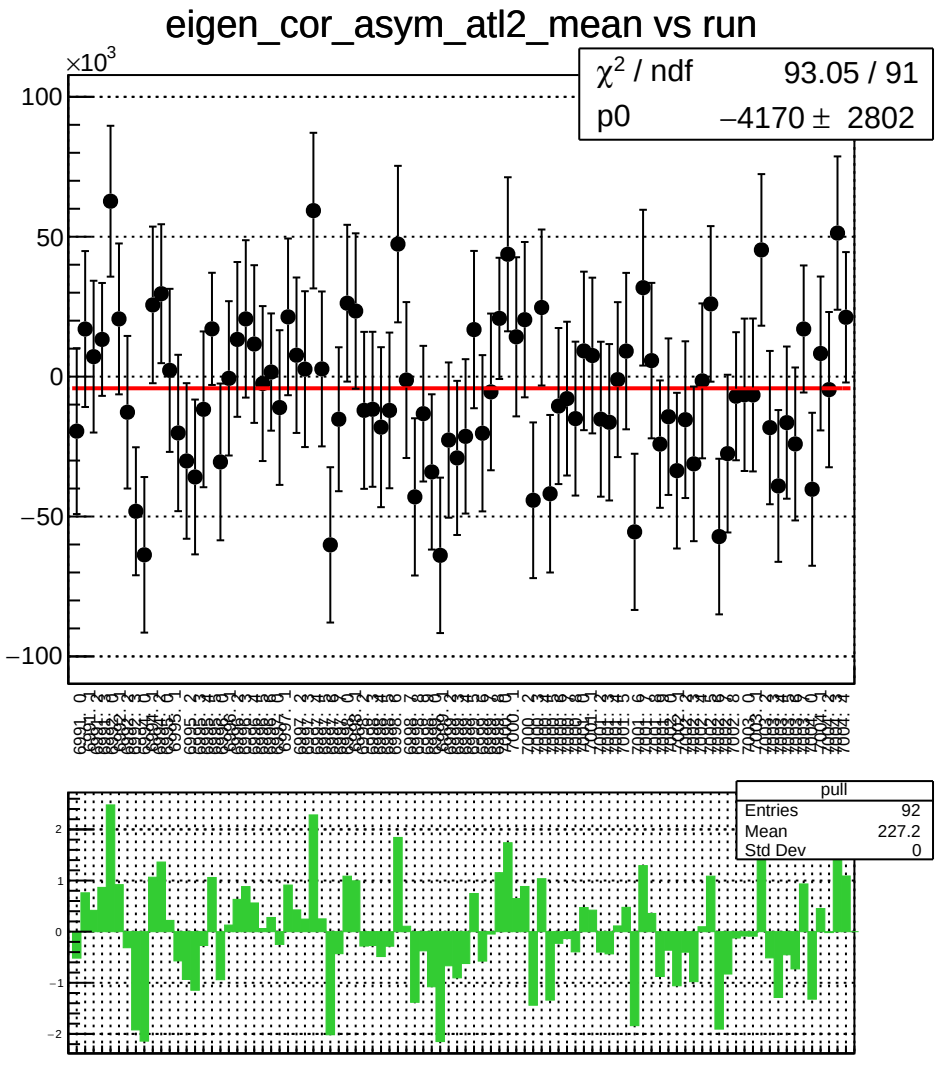

pull1D
Entries 92
Mean −0.01217
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

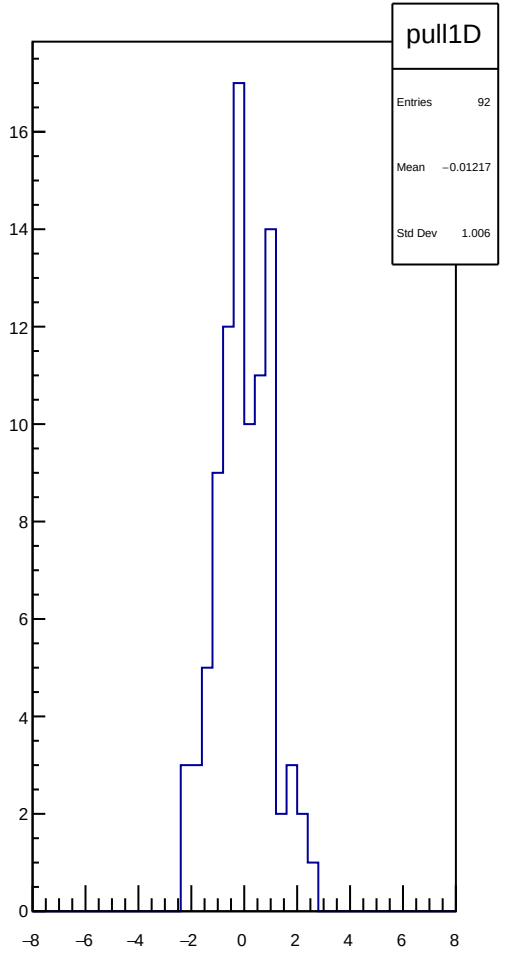

cor_asym_atl2_rms vs run
χ^2 / ndf 381.4 / 91
p0 2632 ± 1.981
2850
2800
2750
2700
2650
2600
2550

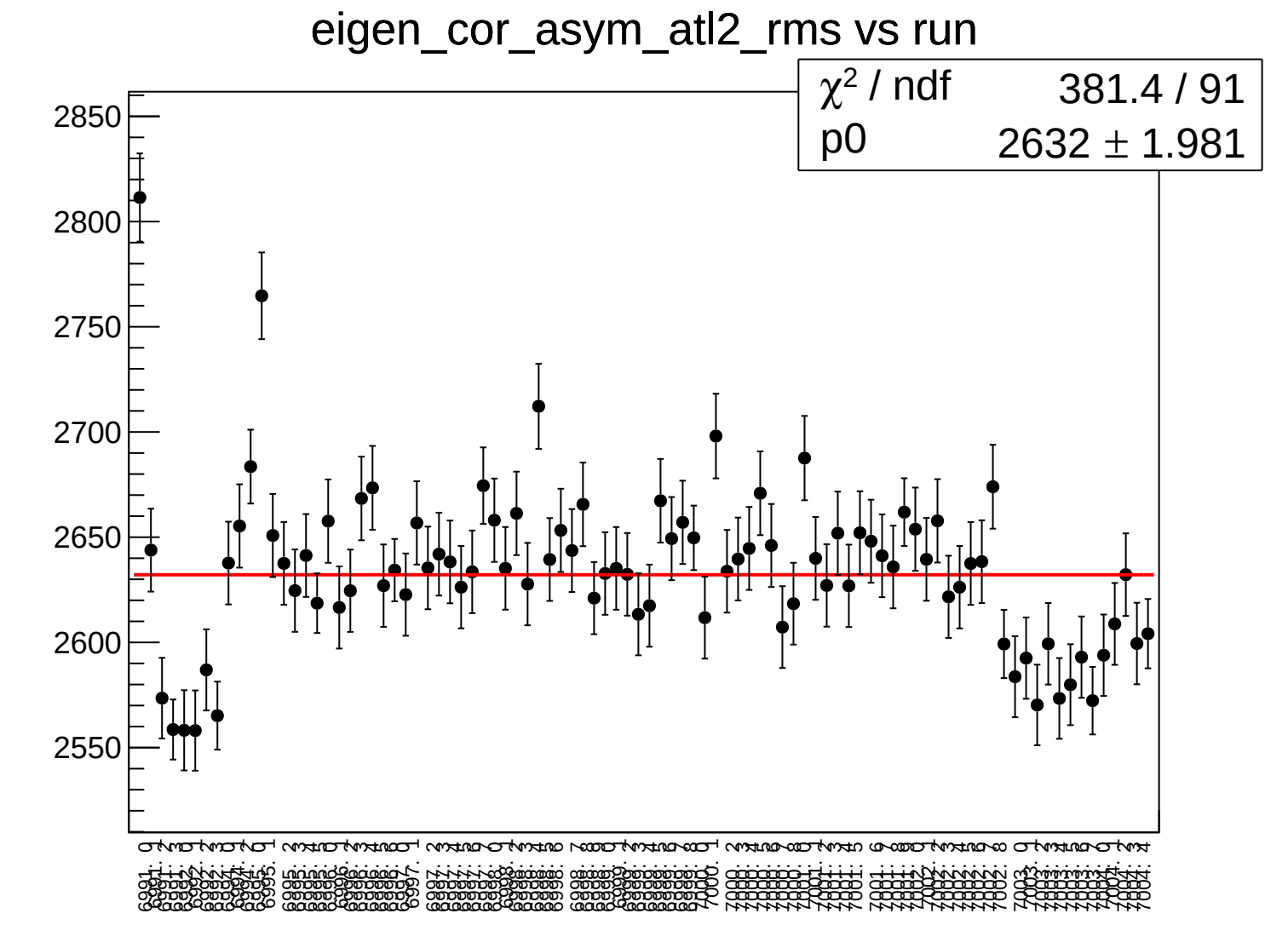

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 107.1 / 91
p0 −7969 ± 9619
pull
Entries 92
Mean −7143
Std Dev 0

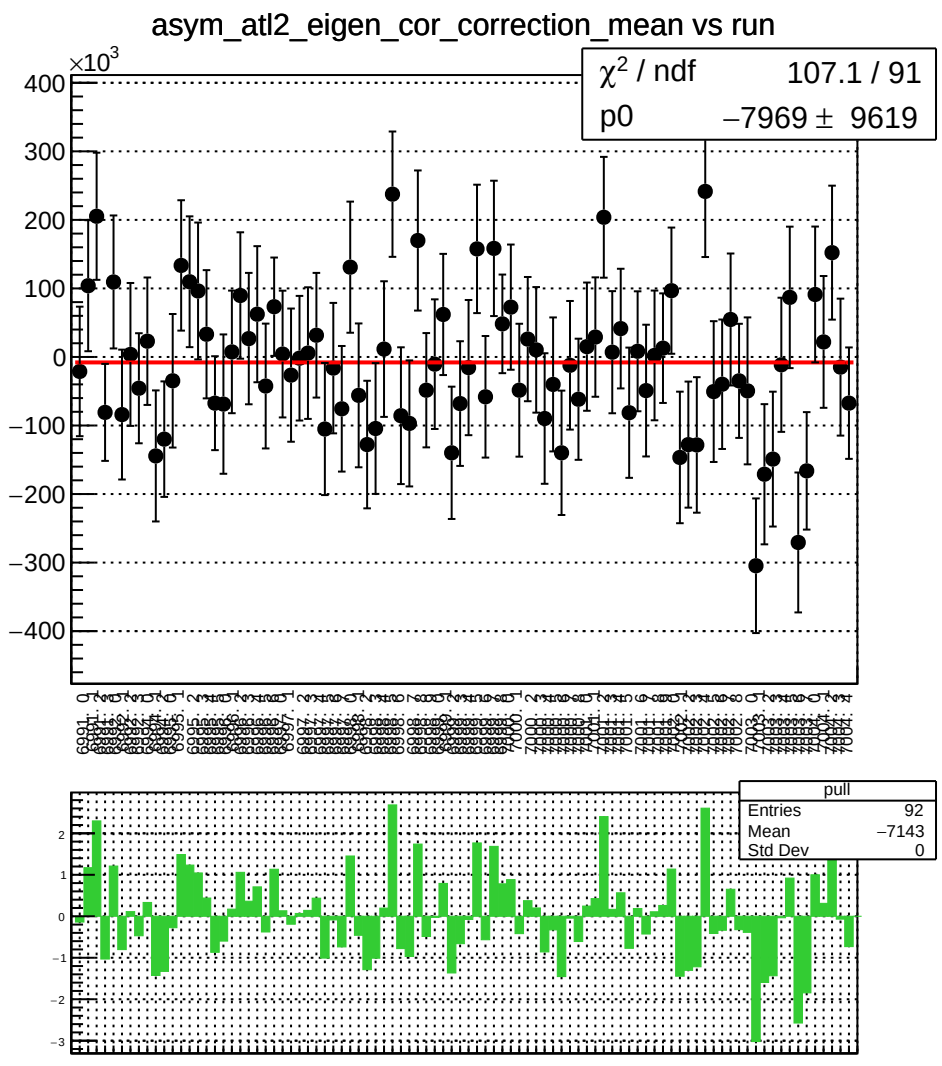

pull1D
Entries 92
Mean 0.0006527
Std Dev 1.079

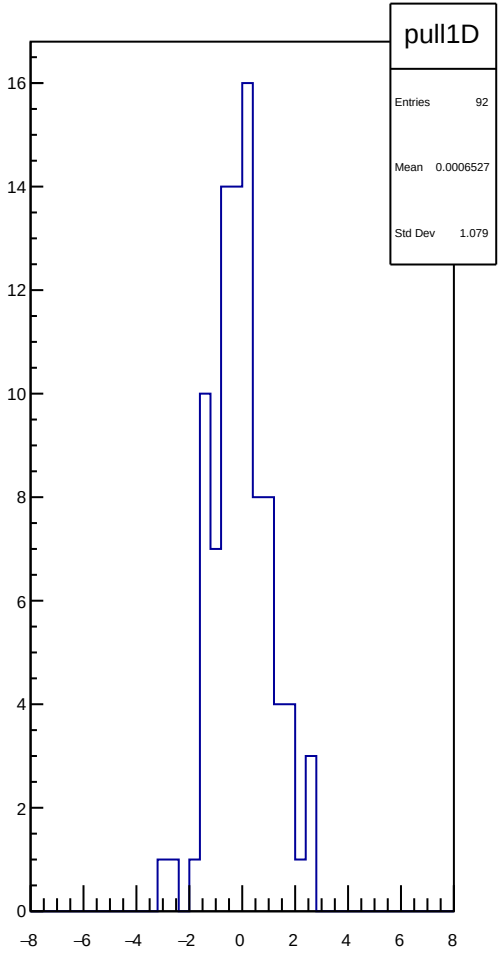

asym_atl2_cor_correction_rms vs run
χ² / ndf 3240 / 91
p0 9029 ± 6.802
10000
9500
9000
8500
8000

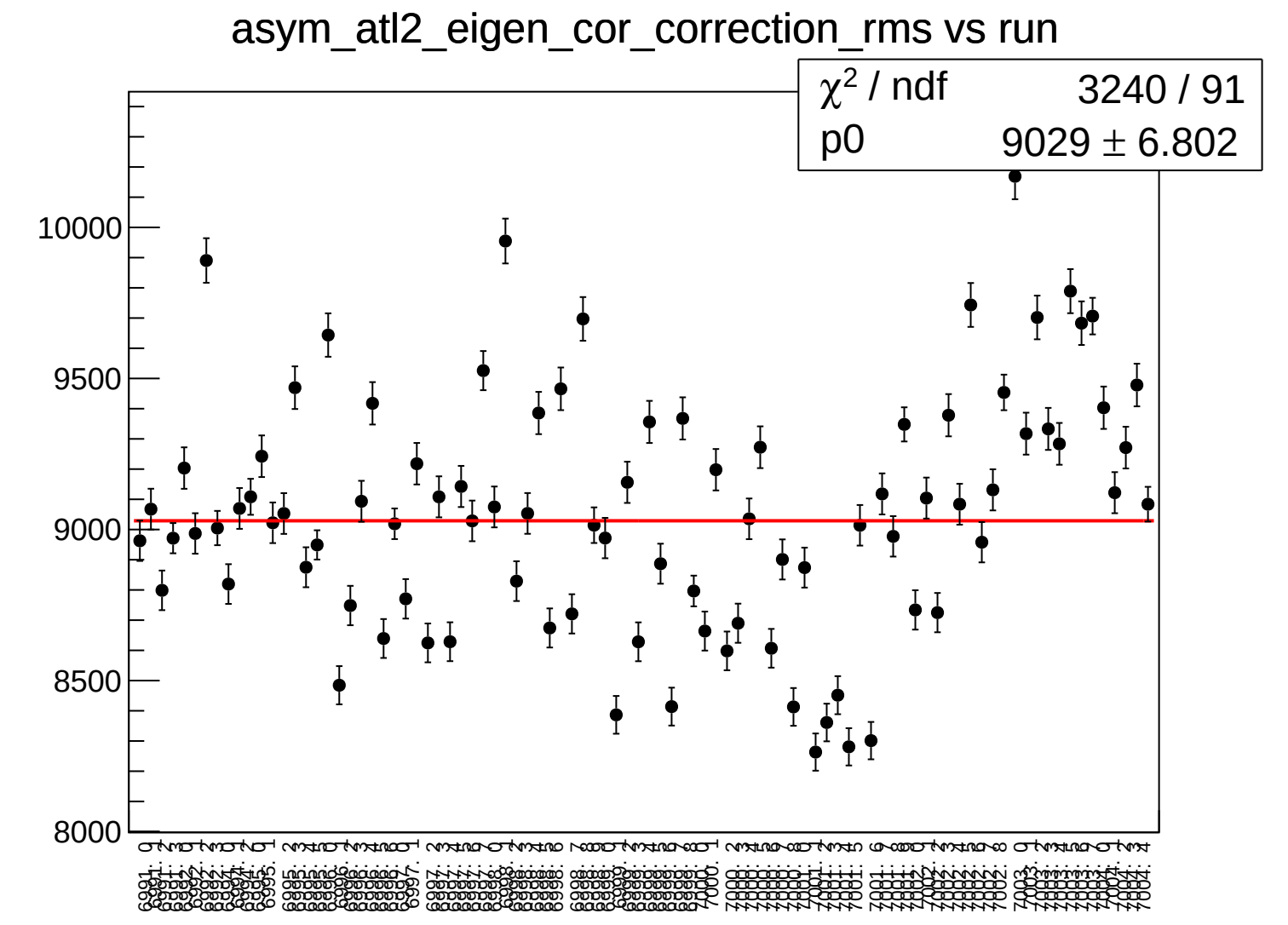

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 93.05 / 91
p0 −4170 ± 2802
100
50
0
−50
−100
pull
Entries 92
Mean 227.2
Std Dev 0
2
1
0
−1
−2

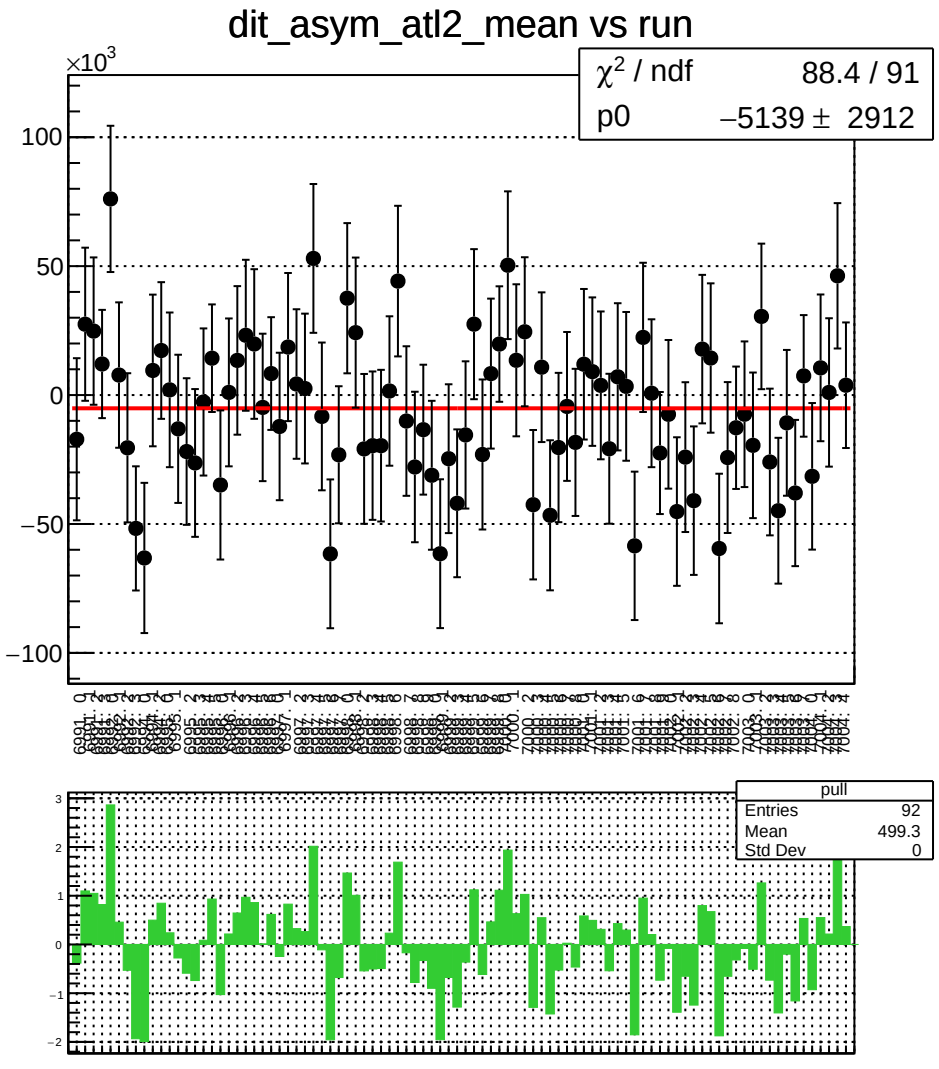

pull1D
Entries 92
Mean −0.01217
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

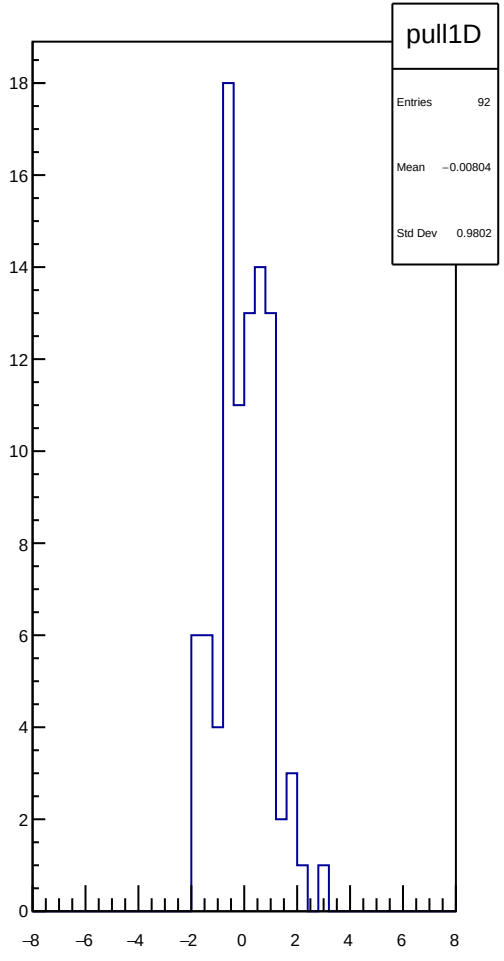

eigen_cor_asym_atl2_rms vs run
χ² / ndf 381.4 / 91
p0 2632 ± 1.981
2850
2800
2750
2700
2650
2600
2550

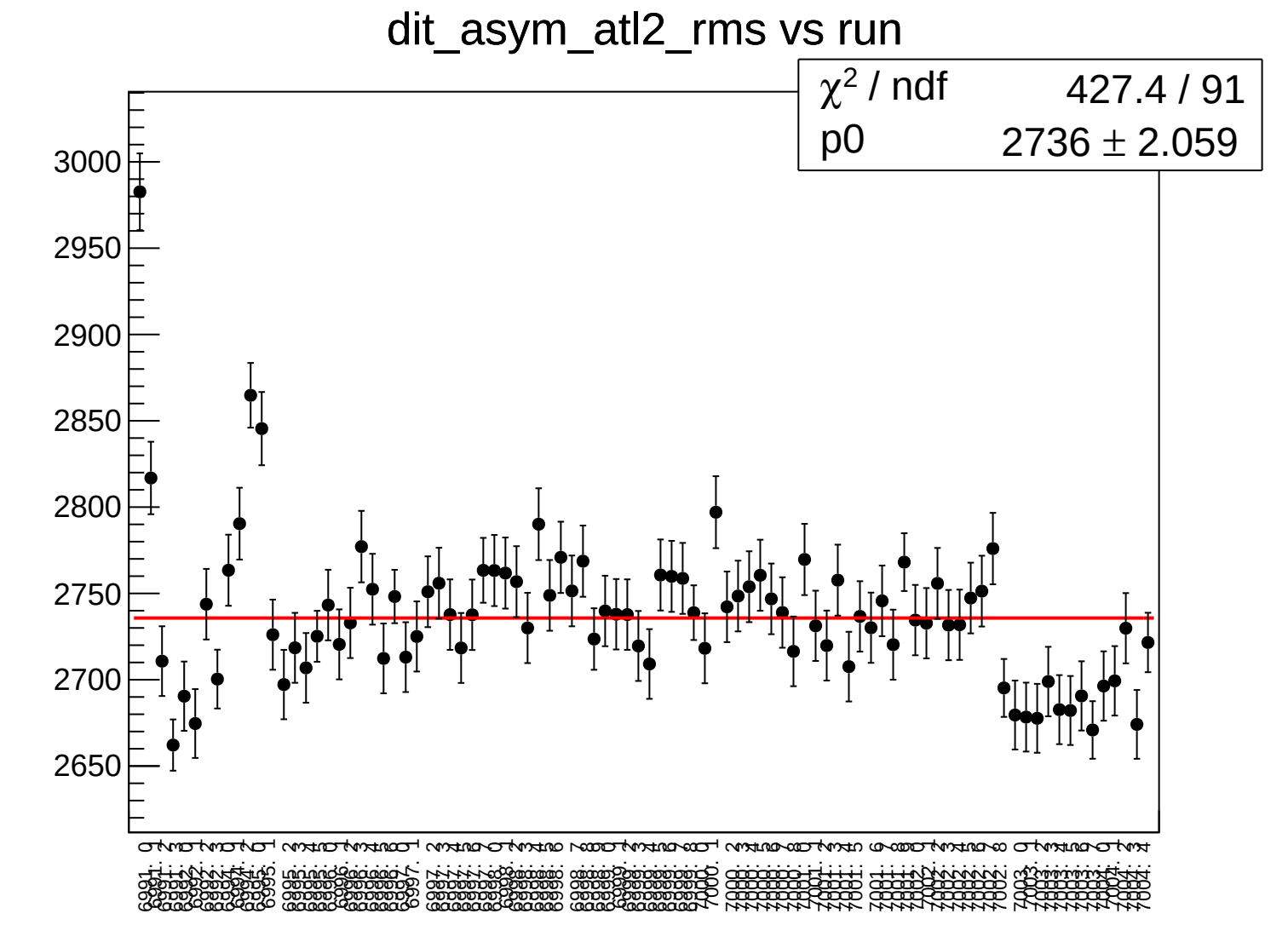

asym_atl2_eigen_cor_correction_mean vs run
χ² / ndf 107.1 / 91
p0 −7969 ± 9619
×10³
pull
Entries 92
Mean −7143
Std Dev 0

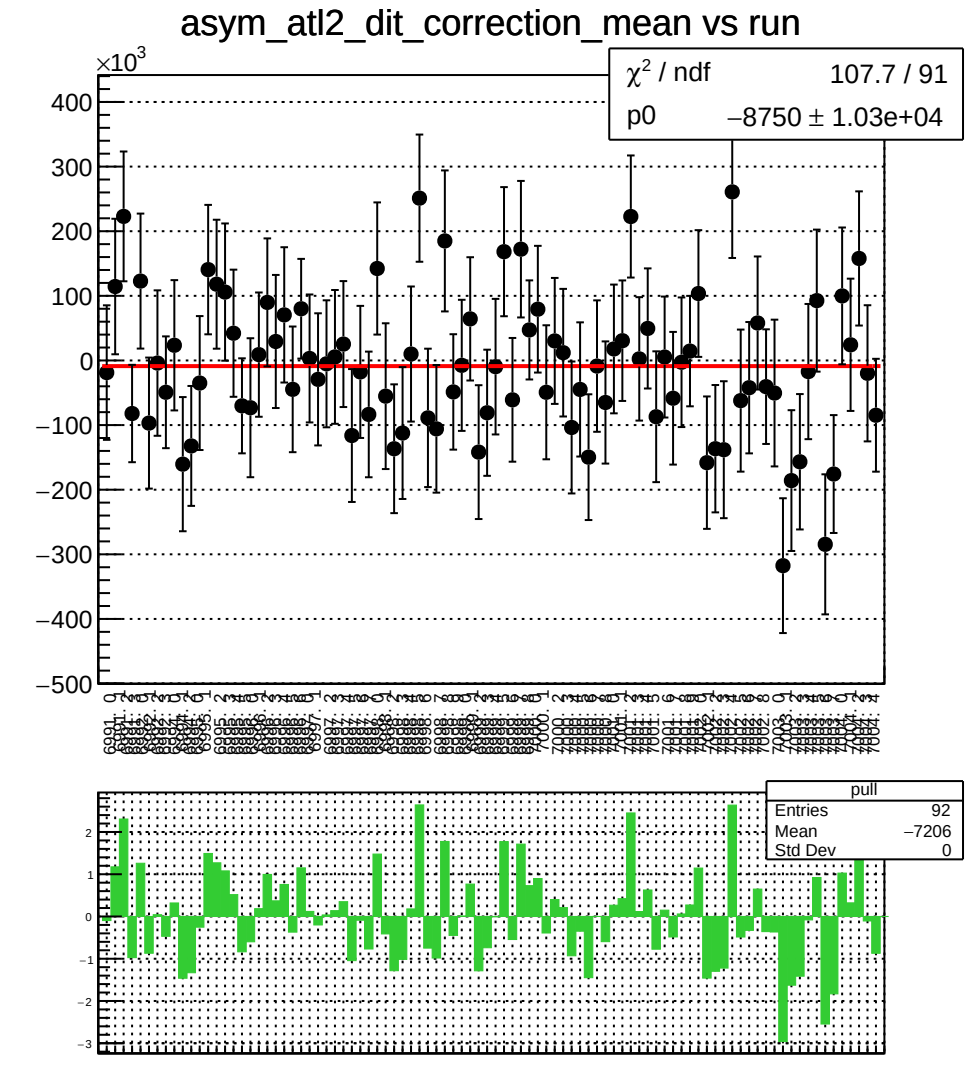

pull1D
Entries 92
Mean 0.0006527
Std Dev 1.079

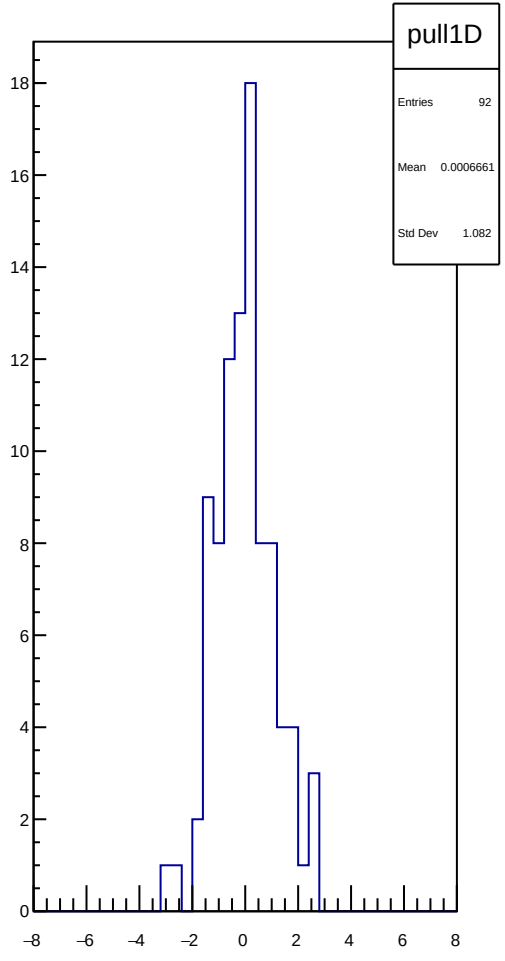

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 3240 / 91
p0 9029 ± 6.802
10000
9500
9000
8500
8000

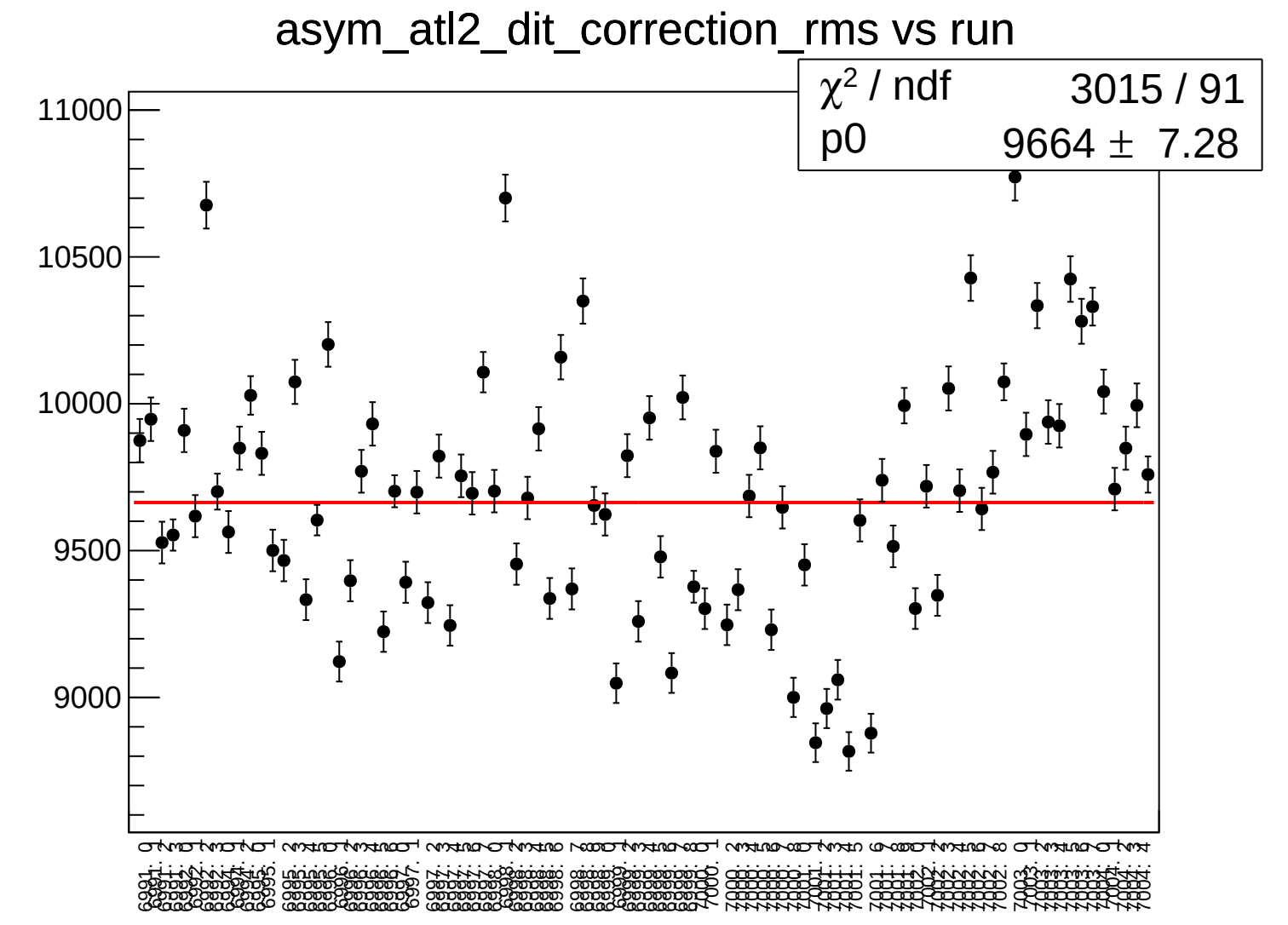

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 88.4 / 91
p0 −5139 ± 2912
100
50
0
−50
−100
pull
Entries 92
Mean 499.3
Std Dev 0
3
2
1
0
−1
−2

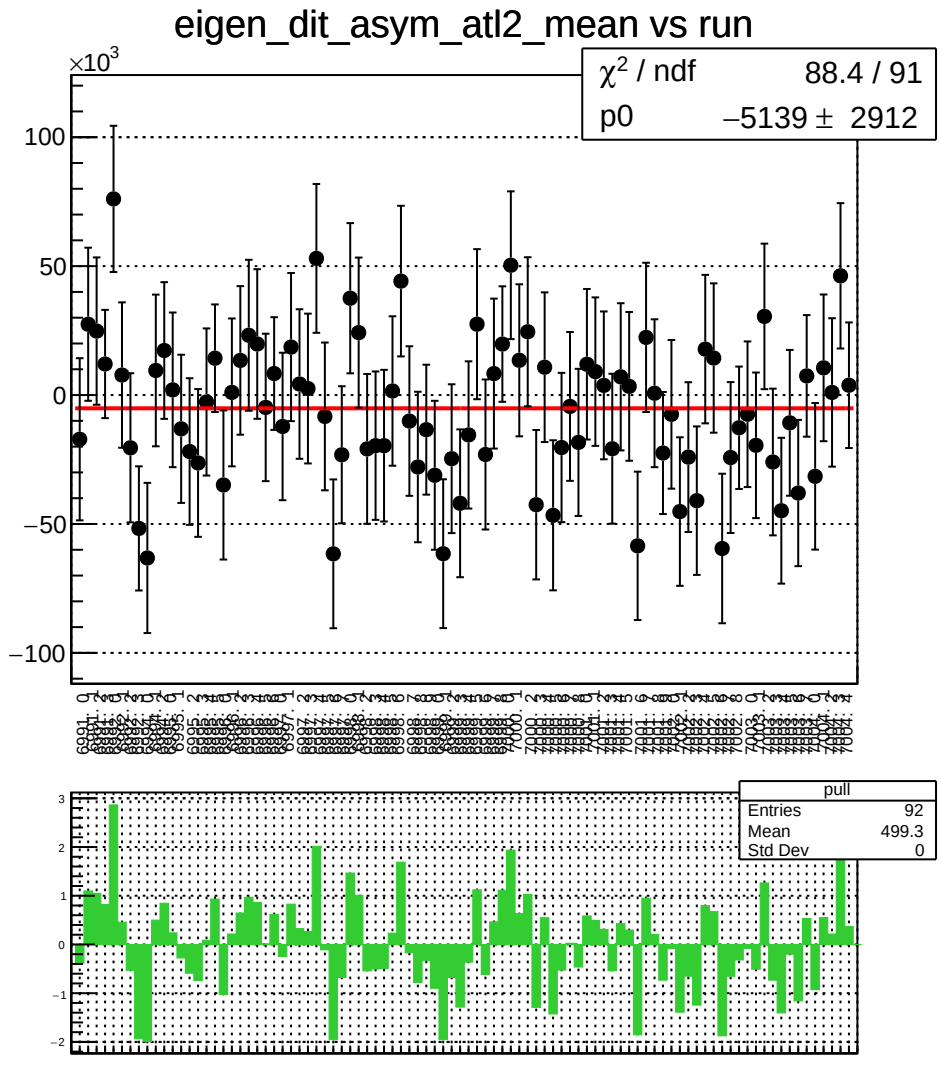

pull1D
Entries 92
Mean −0.00804
Std Dev 0.9802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

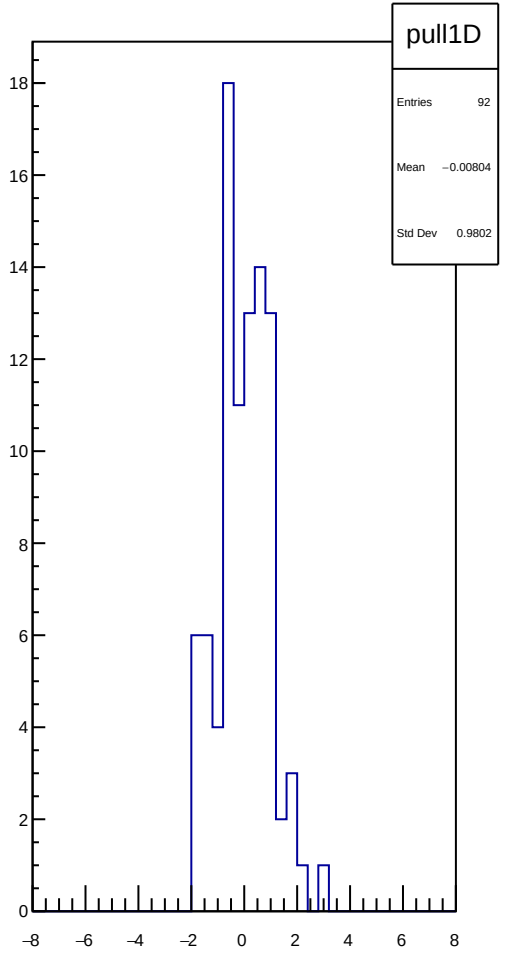

dit_asym_atl2_rms vs run
χ² / ndf 427.4 / 91
p0 2736 ± 2.059
3000
2950
2900
2850
2800
2750
2700
2650

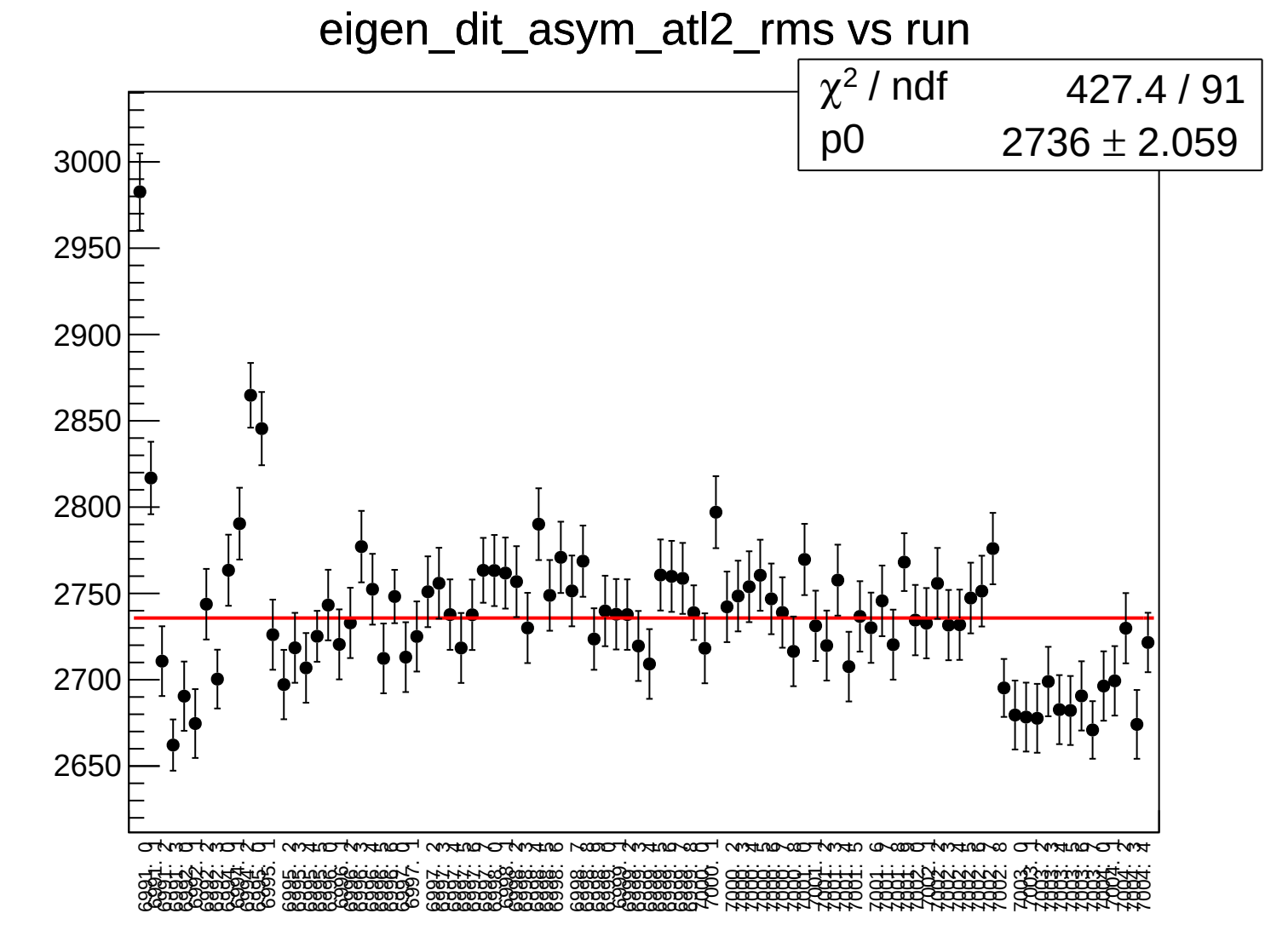

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 107.7 / 91
p0 −8750 ± 1.03e+04
pull
Entries 92
Mean −7206
Std Dev 0

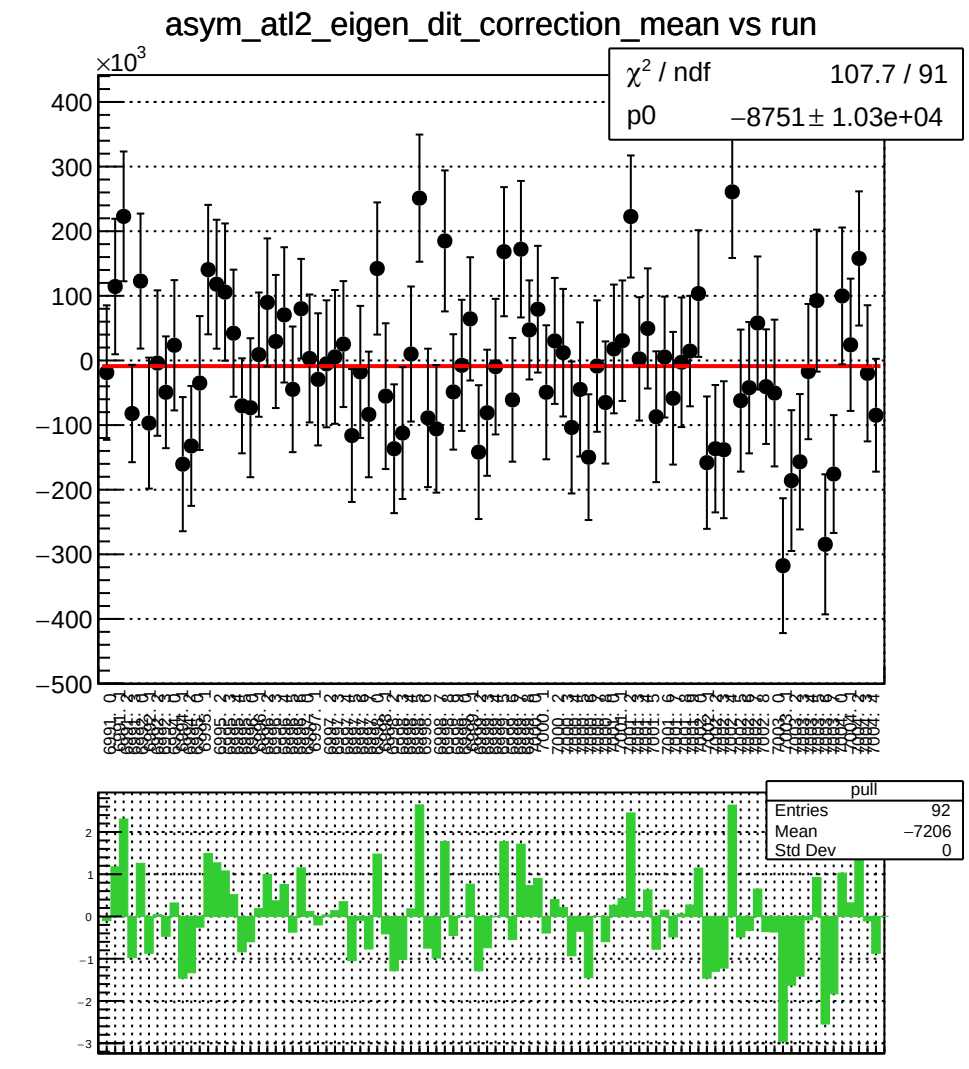

pull1D
Entries 92
Mean 0.0006661
Std Dev 1.082

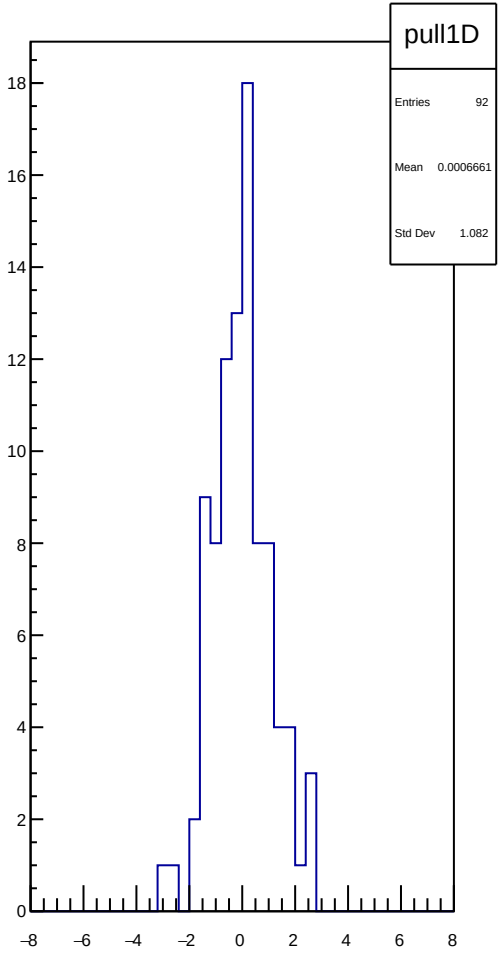

asym_atl2_dit_correction_rms vs run
χ² / ndf 3015 / 91
p0 9664 ± 7.28
11000
10500
10000
9500
9000

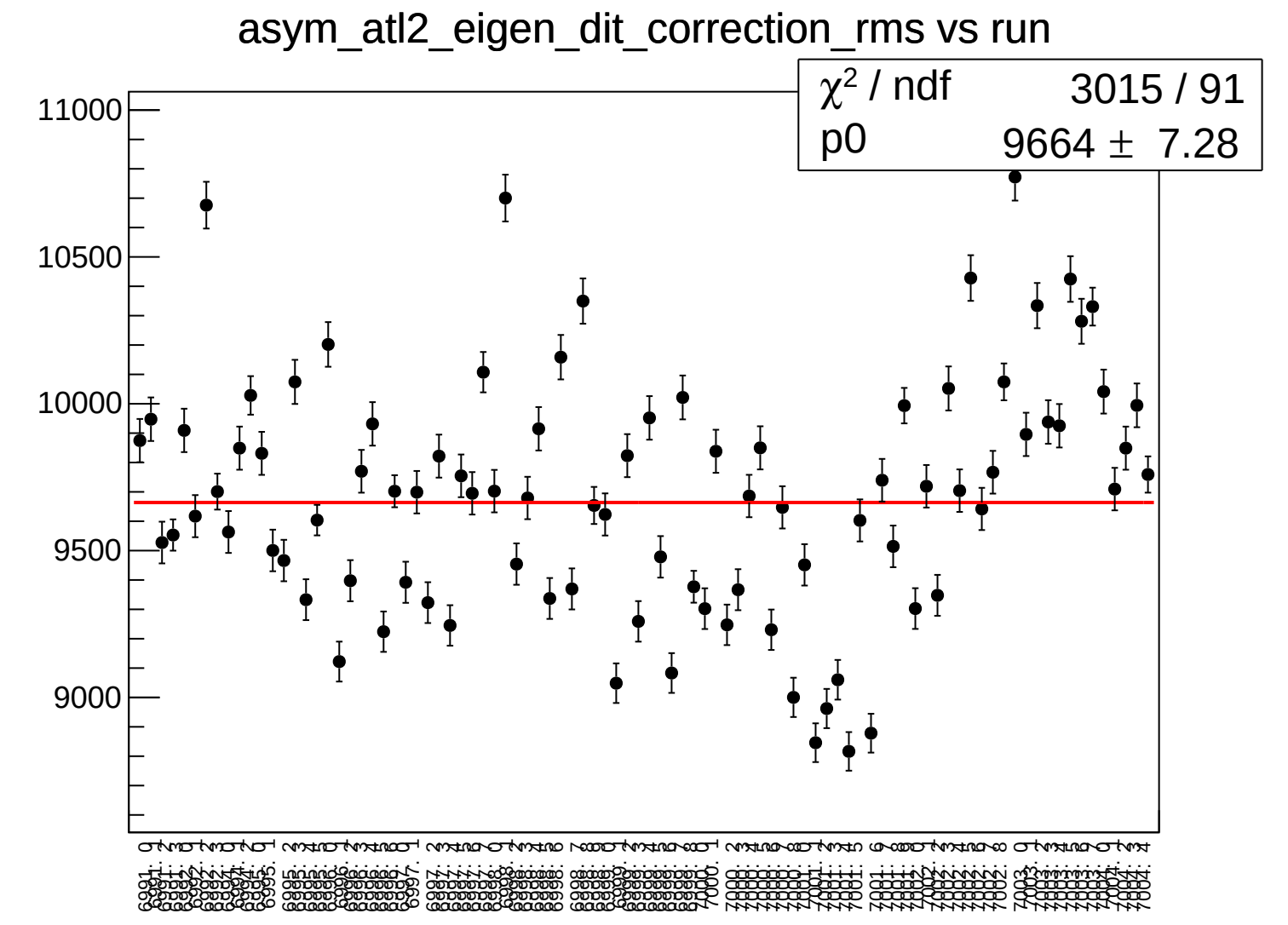

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 88.4 / 91
p0 −5139 ± 2912
100
50
0
−50
−100
pull
Entries 92
Mean 499.3
Std Dev 0
3
2
1
0
−1
−2

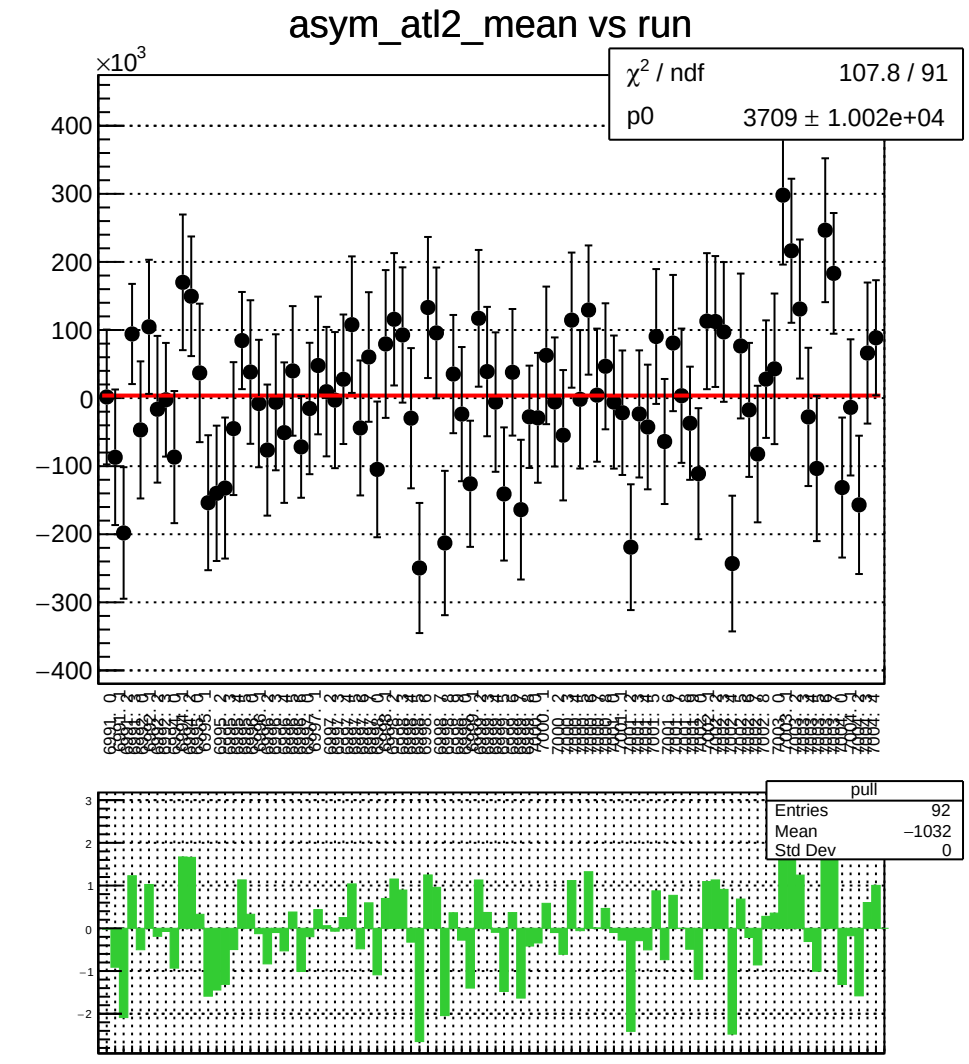

pull1D
Entries 92
Mean −0.00804
Std Dev 0.9802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

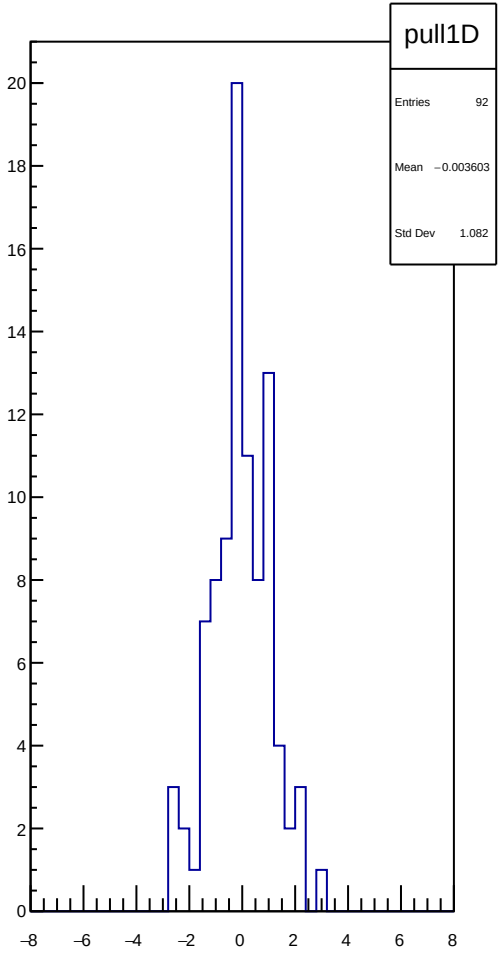

eigen_dit_asym_atl2_rms vs run
χ² / ndf 427.4 / 91
p0 2736 ± 2.059
3000
2950
2900
2850
2800
2750
2700
2650

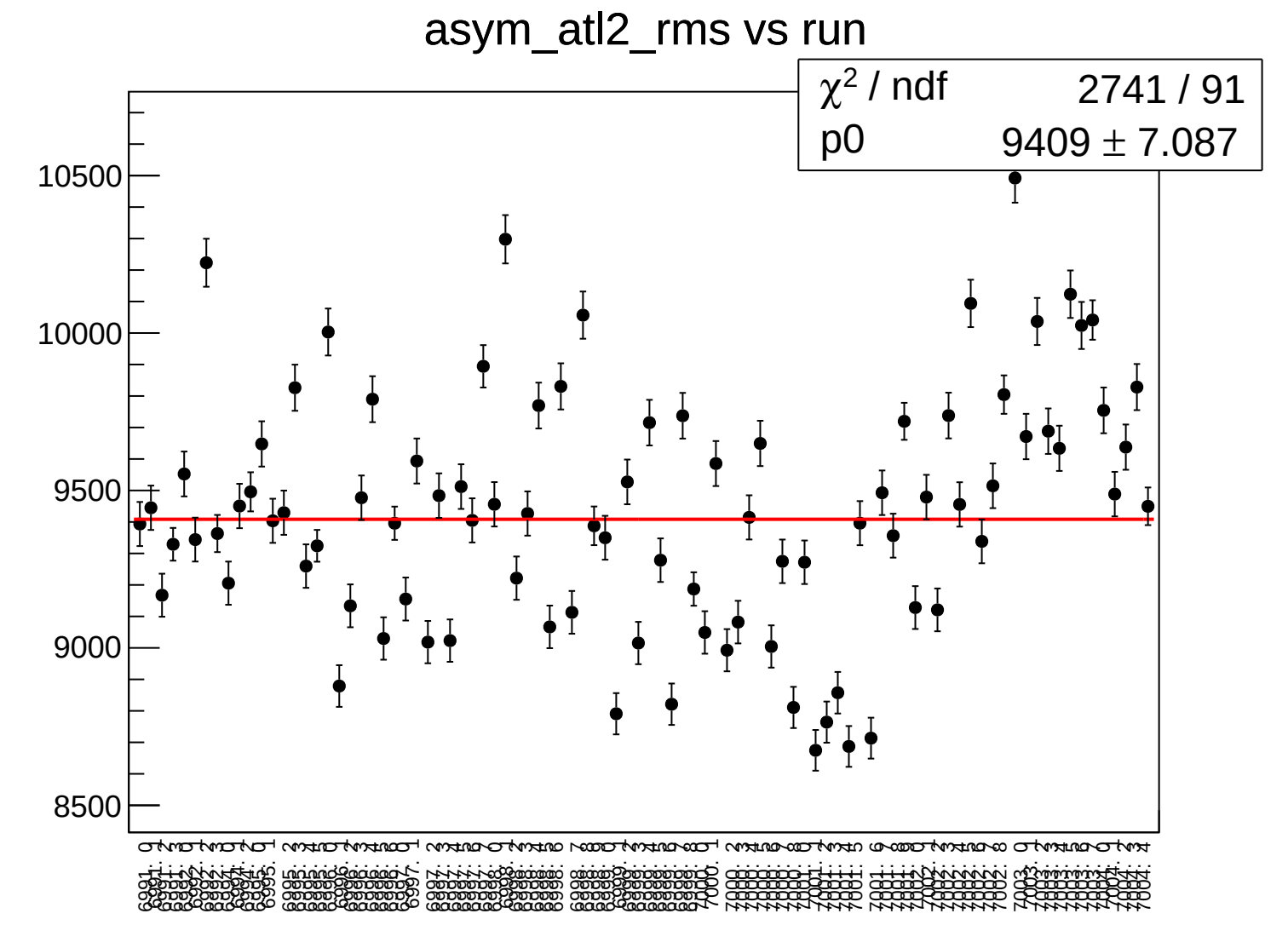

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.7 / 91
p0 −8751 ± 1.03e+04
pull
Entries 92
Mean −7206
Std Dev 0

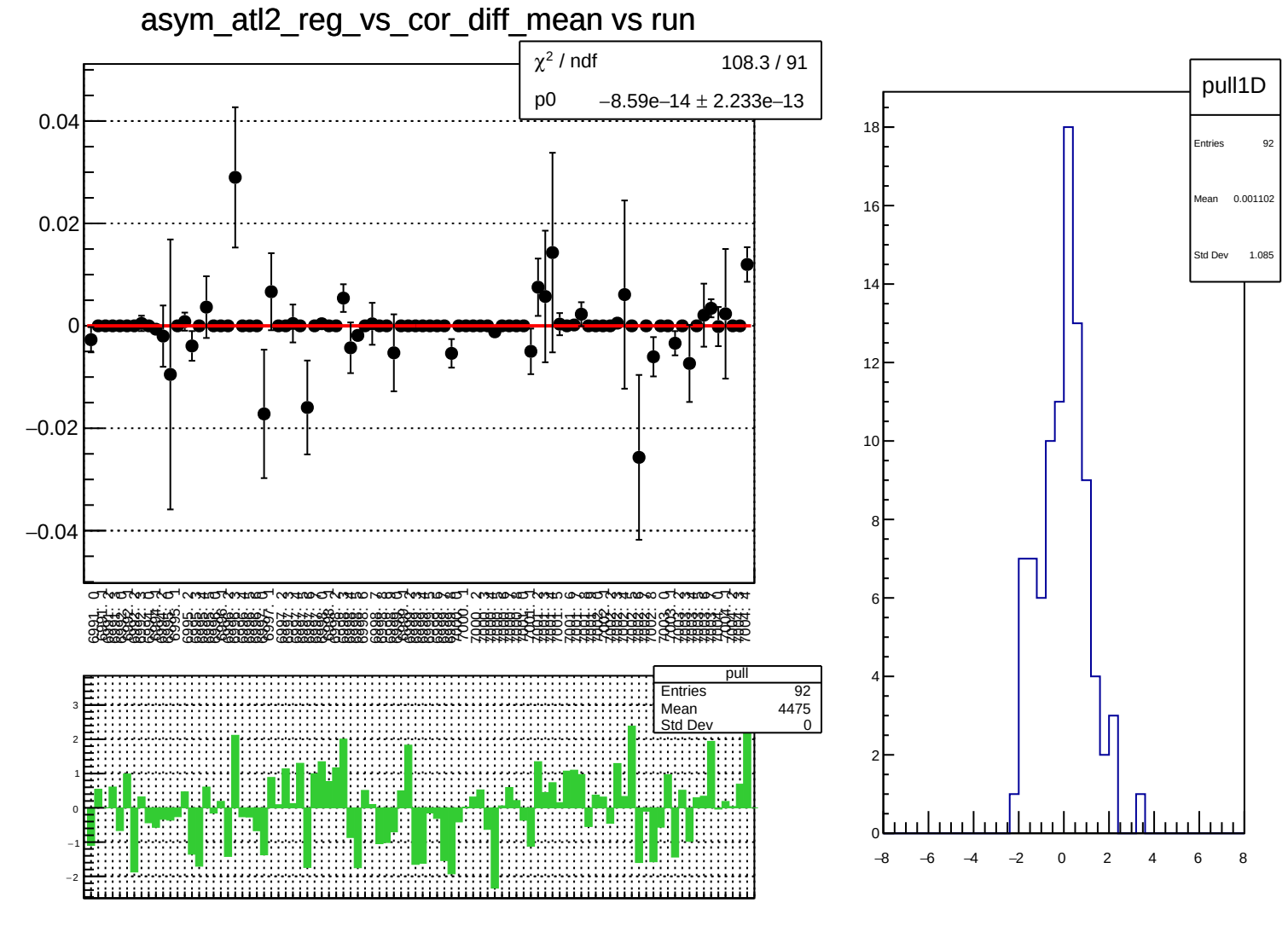

pull1D
Entries 92
Mean 0.0006661
Std Dev 1.082

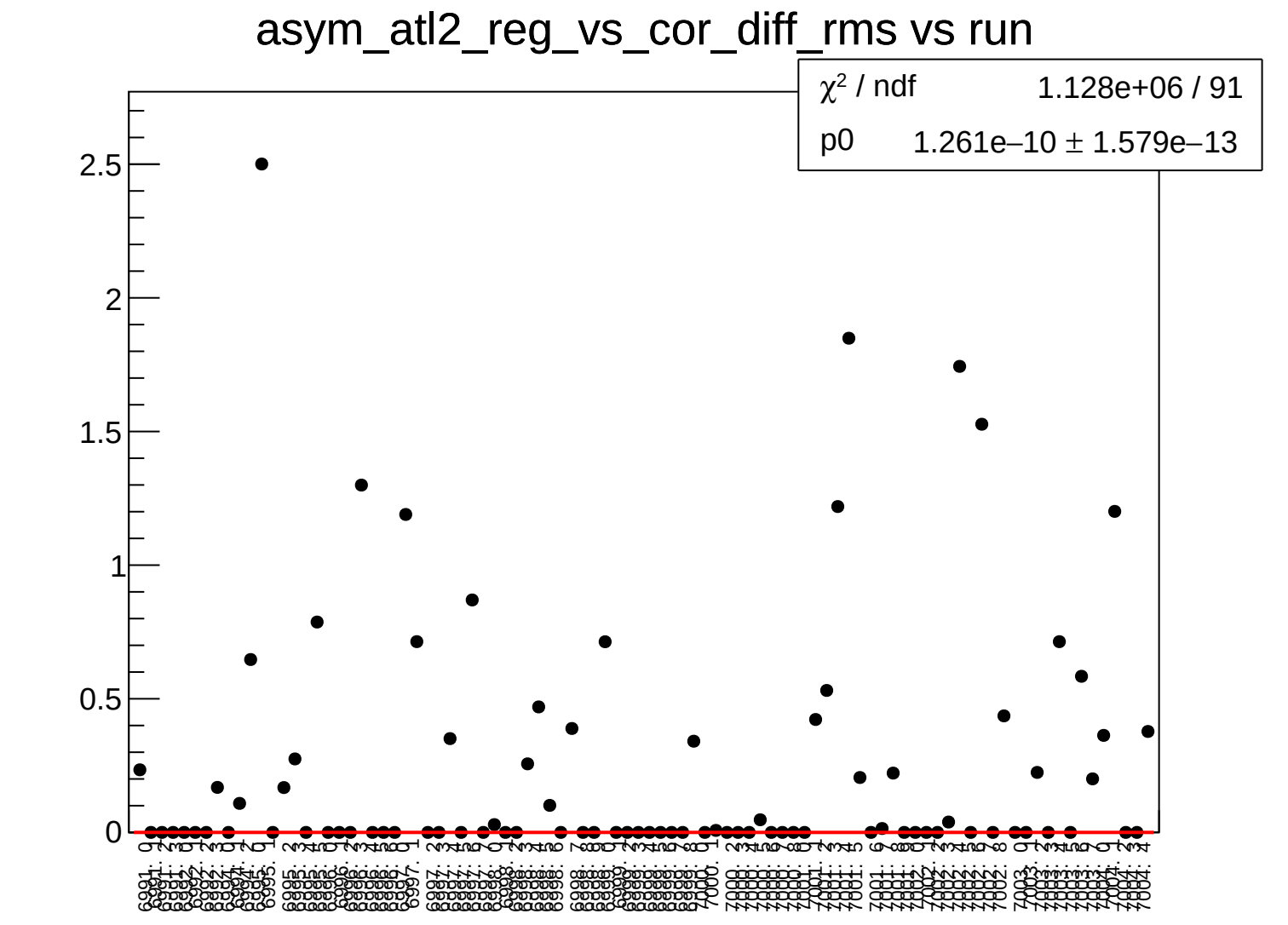

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 3015 / 91
p0 9664 ± 7.28
11000
10500
10000
9500
9000

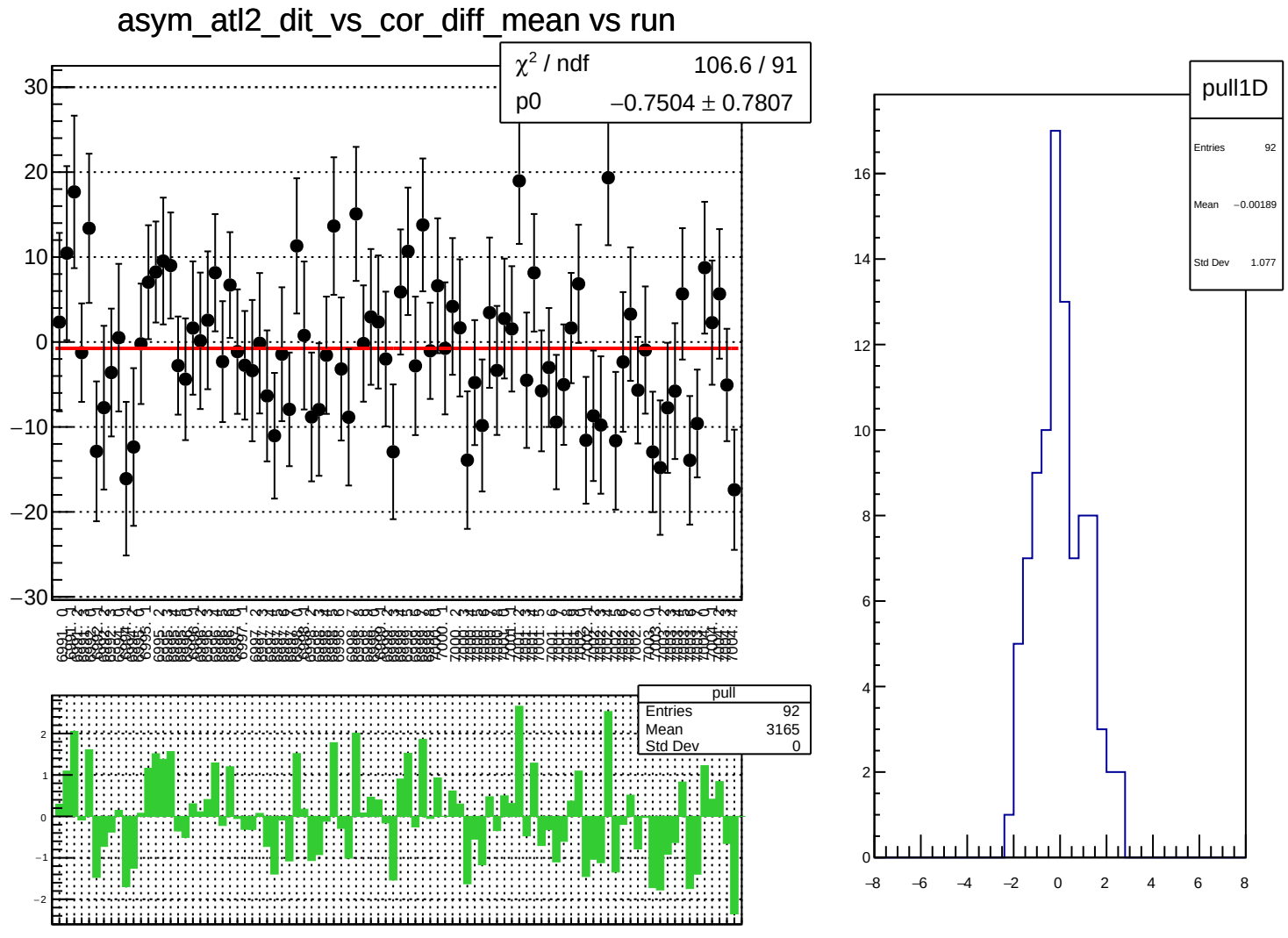

asym_atl2_mean vs run
×10^3
χ² / ndf 107.8 / 91
p0 3709 ± 1.002e+04
pull
Entries 92
Mean −1032
Std Dev 0

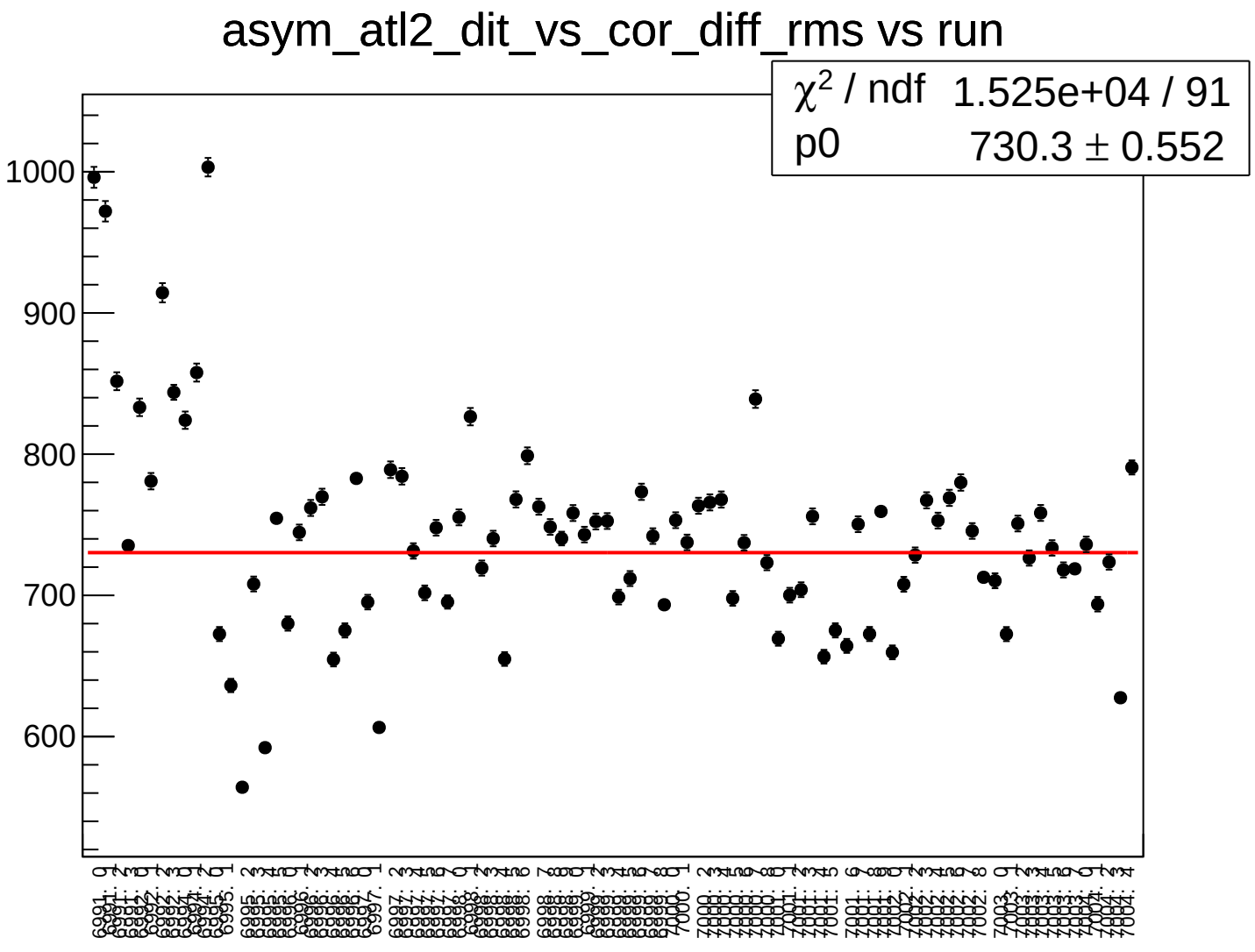

pull1D
Entries 92
Mean −0.003603
Std Dev 1.082

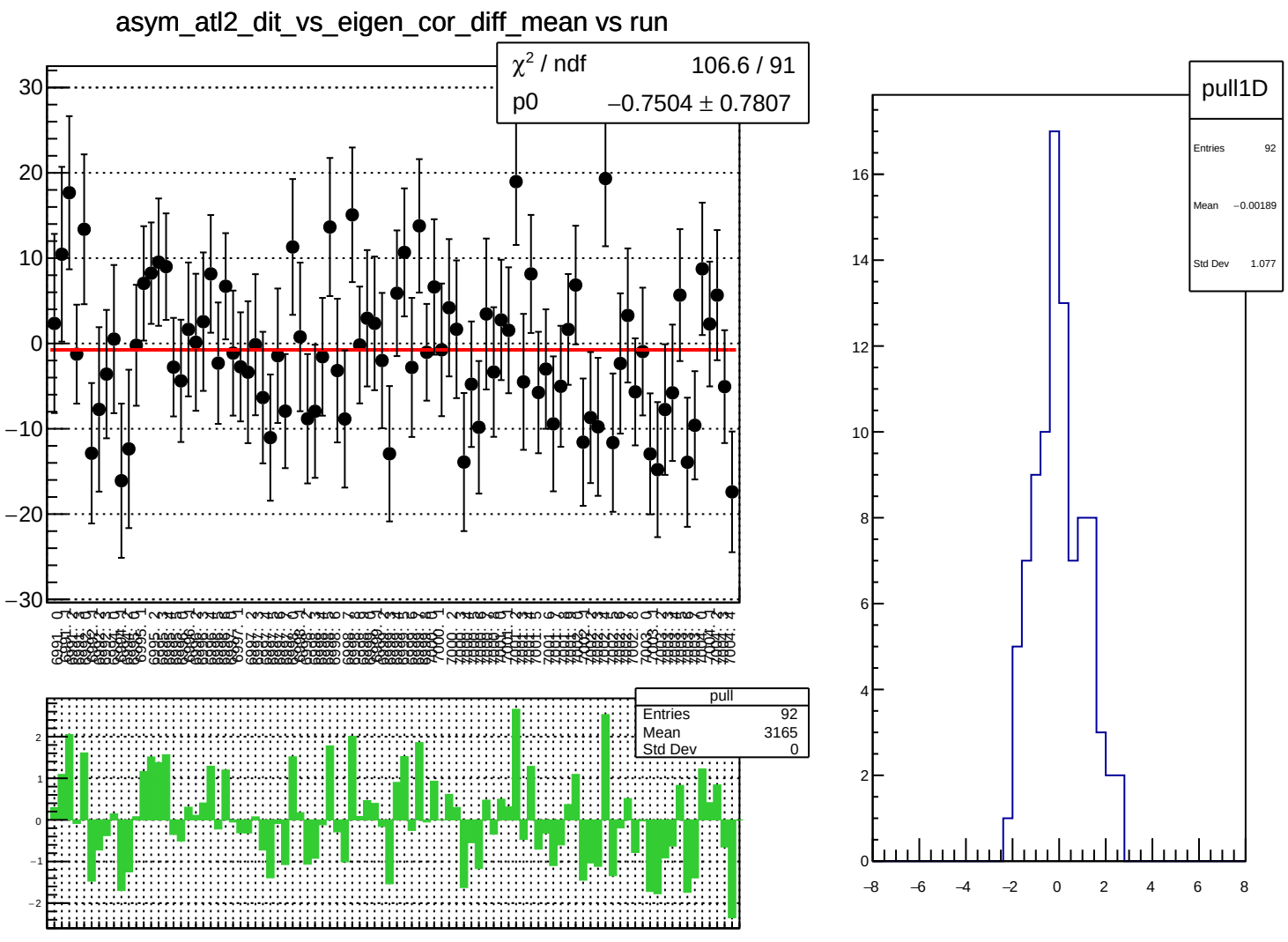

asym_atl2_rms vs run
χ² / ndf 2741 / 91
p0 9409 ± 7.087
10500
10000
9500
9000
8500

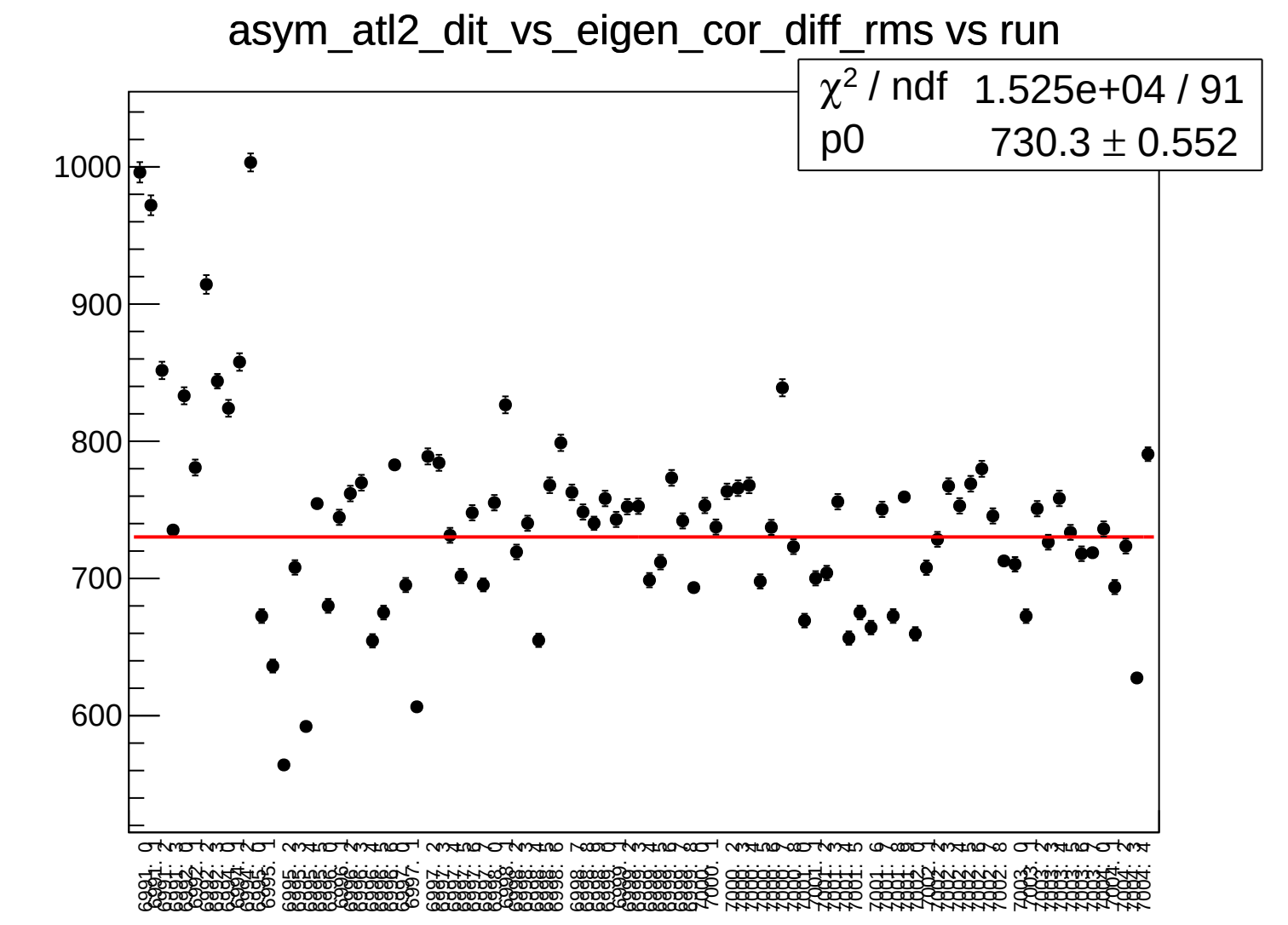

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 91
p0 −8.59e−14 ± 2.233e−13
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean 4475
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001102
Std Dev 1.085
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

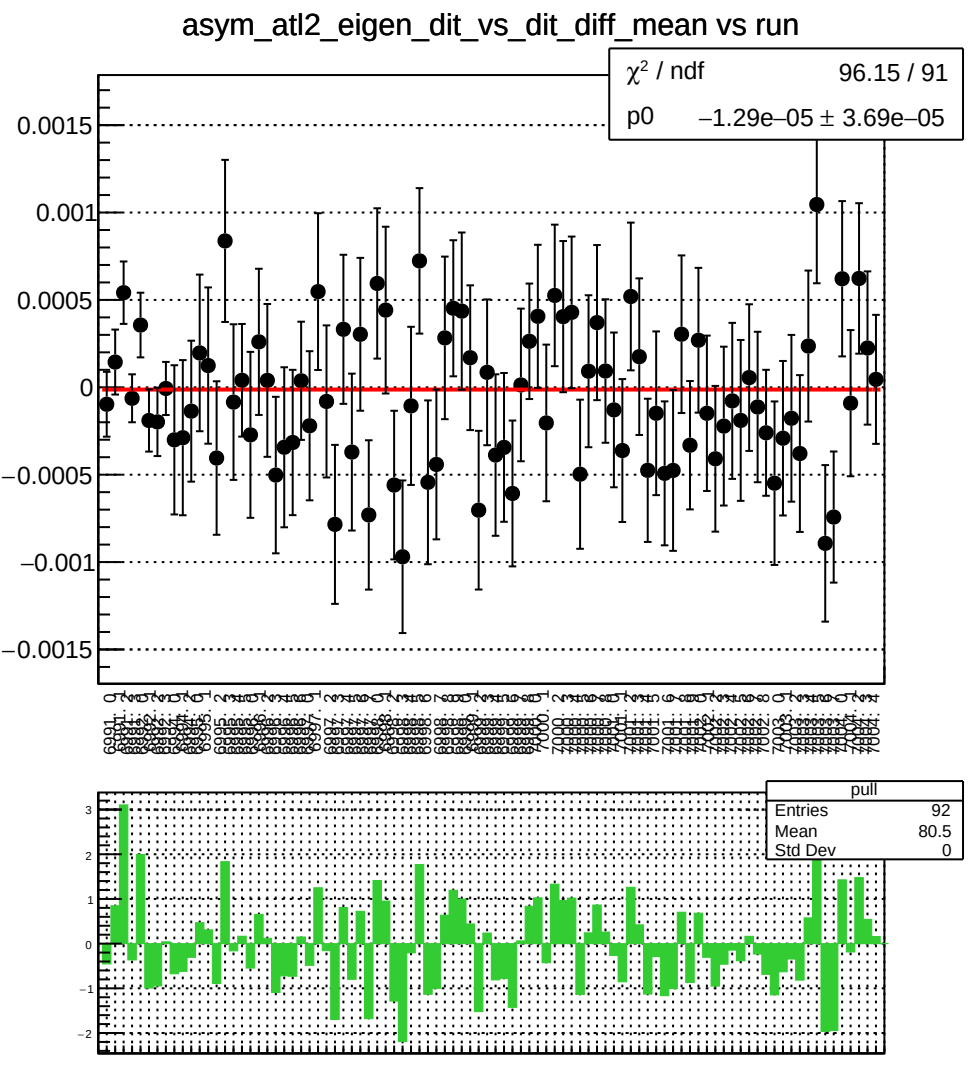

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.128e+06 / 91
p0 1.261e−10 ± 1.579e−13
2.5
2
1.5
1
0.5
0

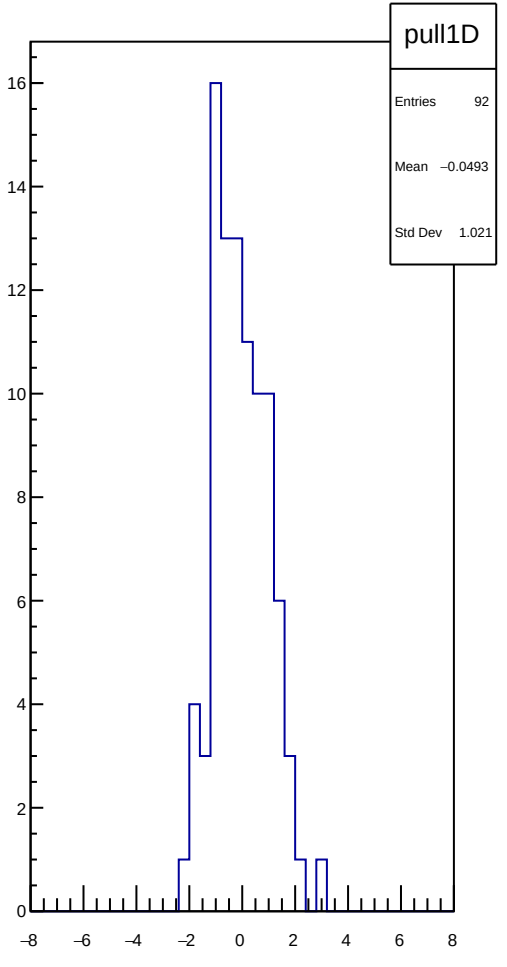

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 91
p0 −0.7504 ± 0.7807
pull
Entries 92
Mean 3165
Std Dev 0
pull1D
Entries 92
Mean −0.00189
Std Dev 1.077

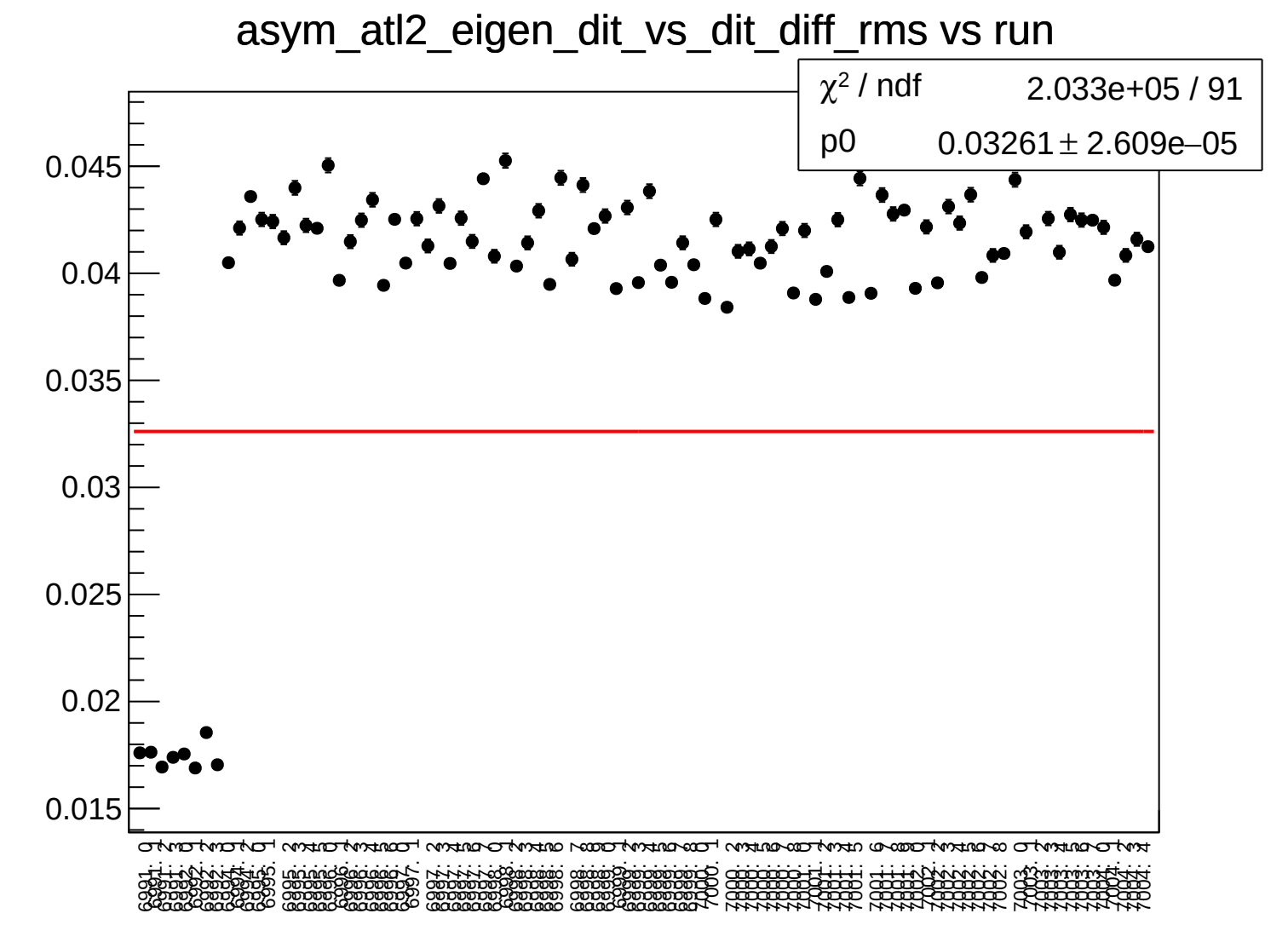

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.525e+04 / 91
p0 730.3 ± 0.552
1000
900
800
700
600

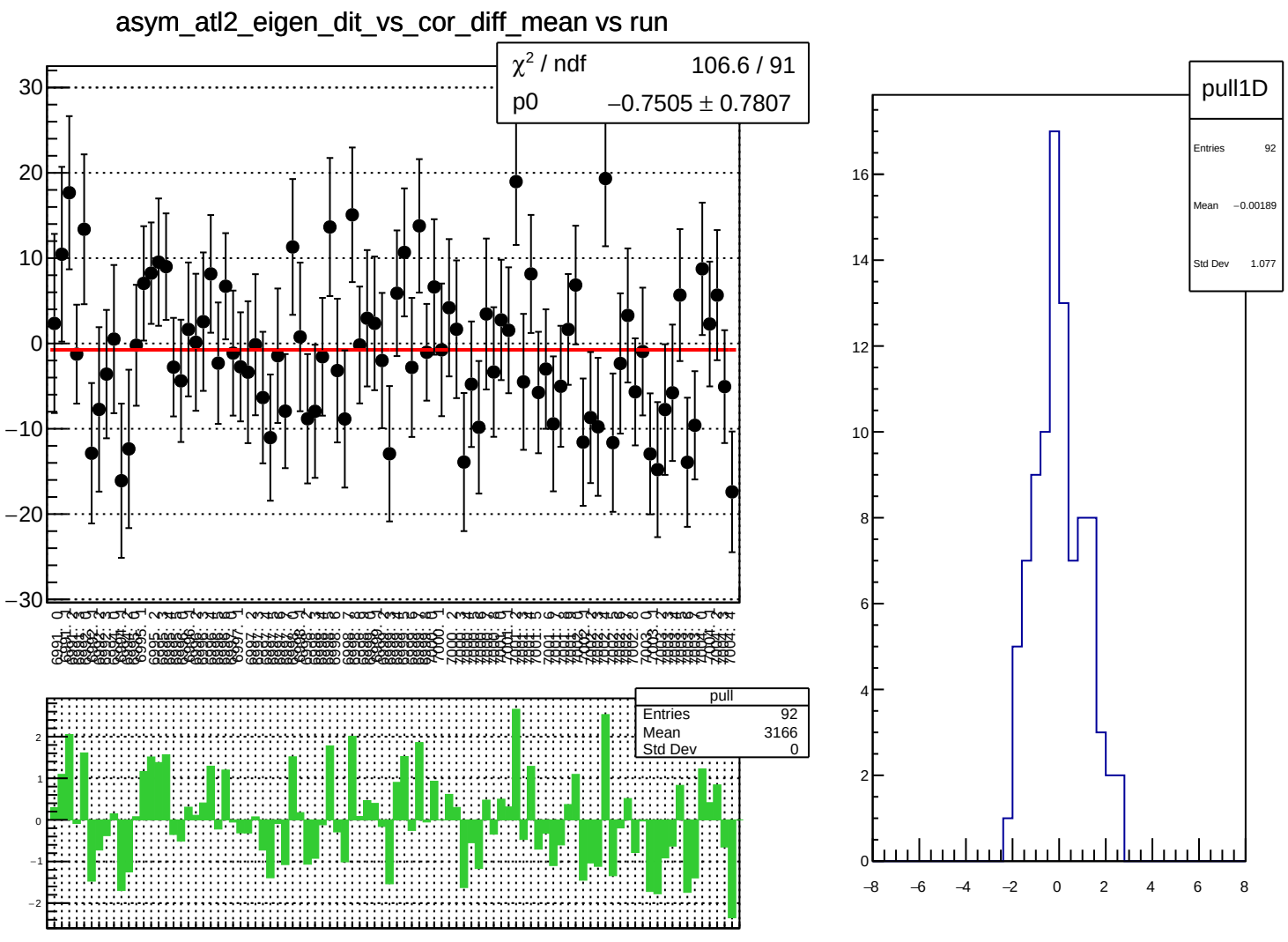

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 91
p0 −0.7504 ± 0.7807
pull
Entries 92
Mean 3165
Std Dev 0
pull1D
Entries 92
Mean −0.00189
Std Dev 1.077

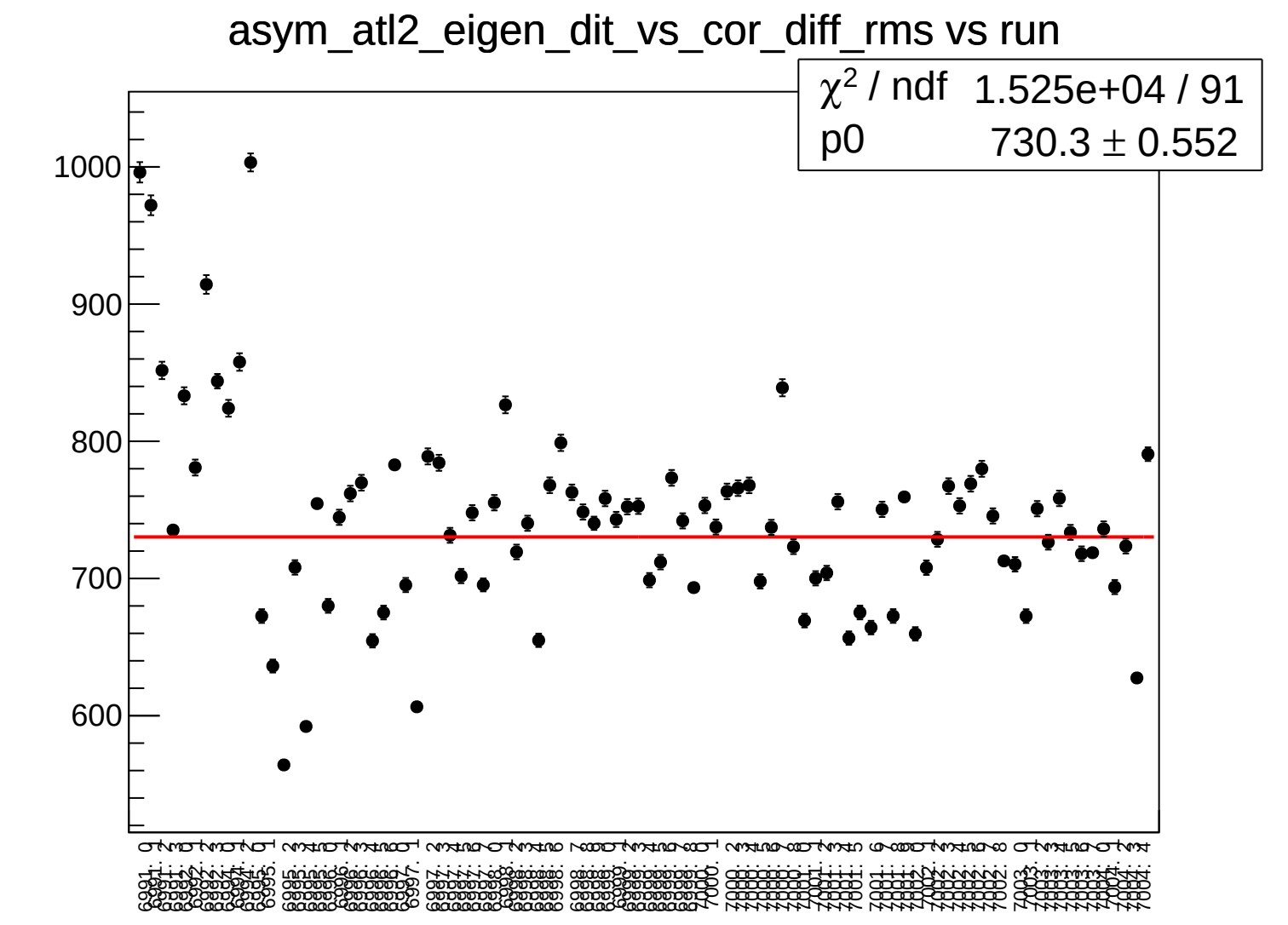

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.525e+04 / 91
p0 730.3 ± 0.552
1000
900
800
700
600

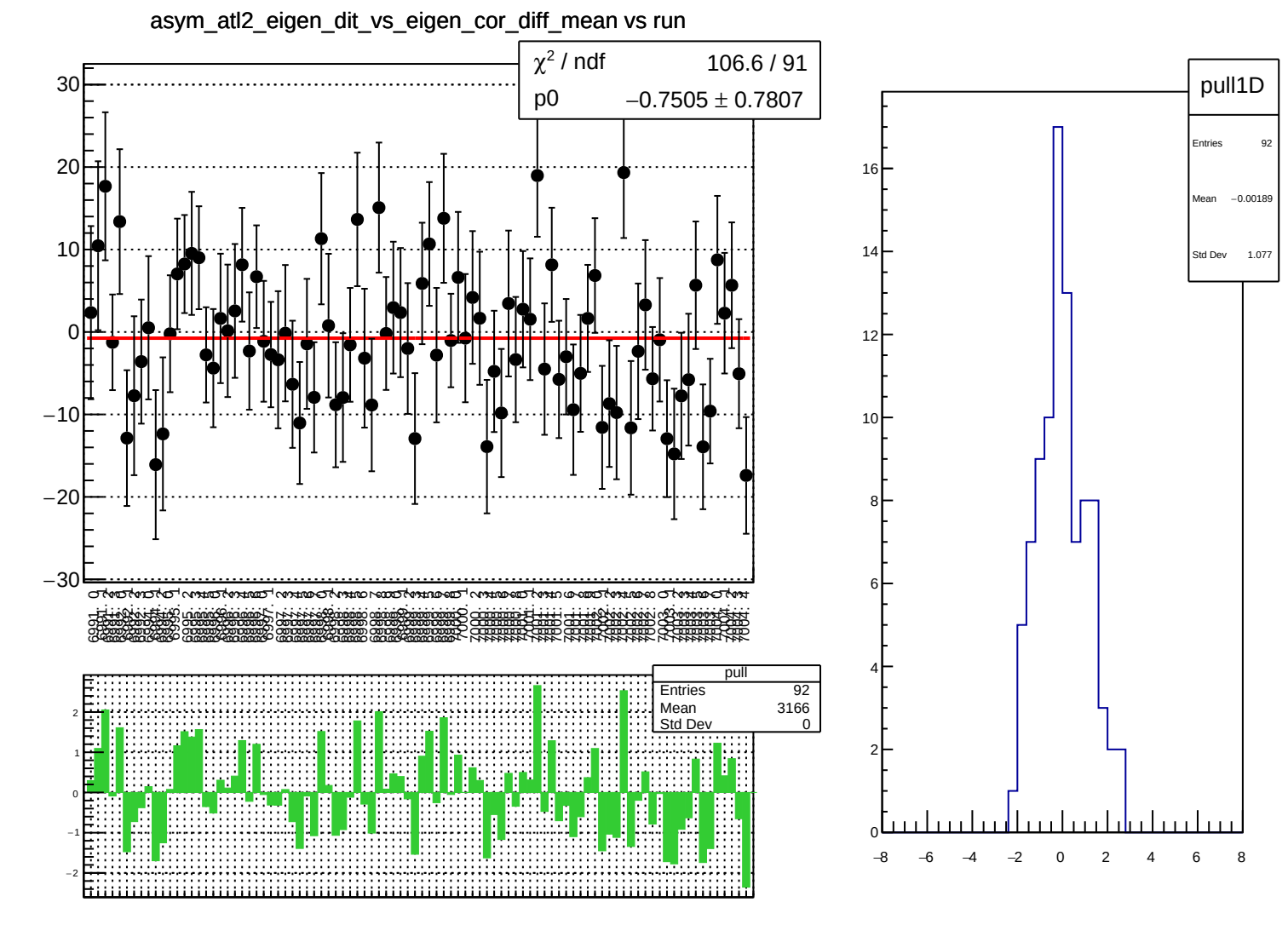

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 96.15 / 91
p0 −1.29e−05 ± 3.69e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 80.5
Std Dev 0
3
2
1
0
−1
−2

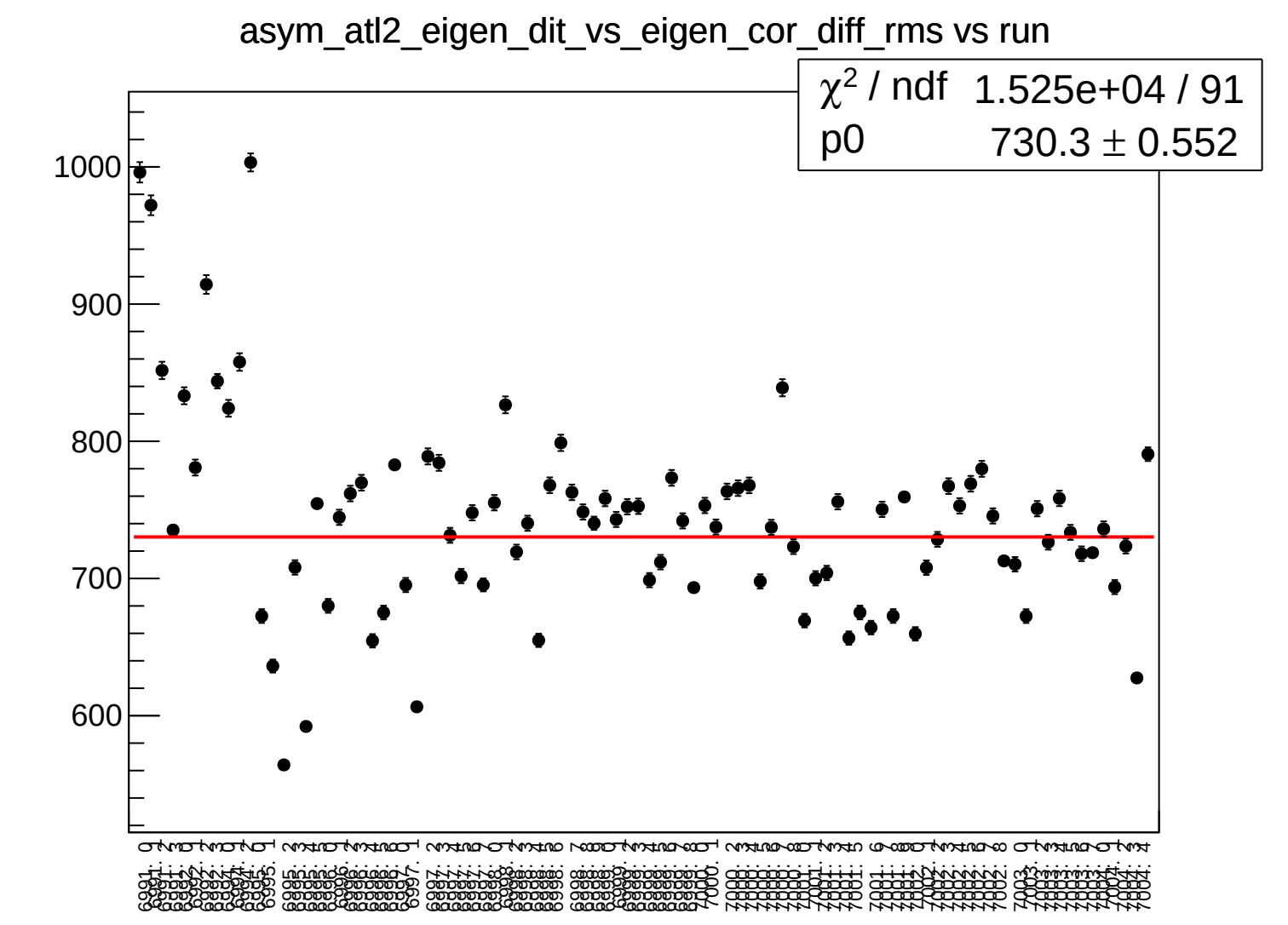

pull1D
Entries 92
Mean −0.0493
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

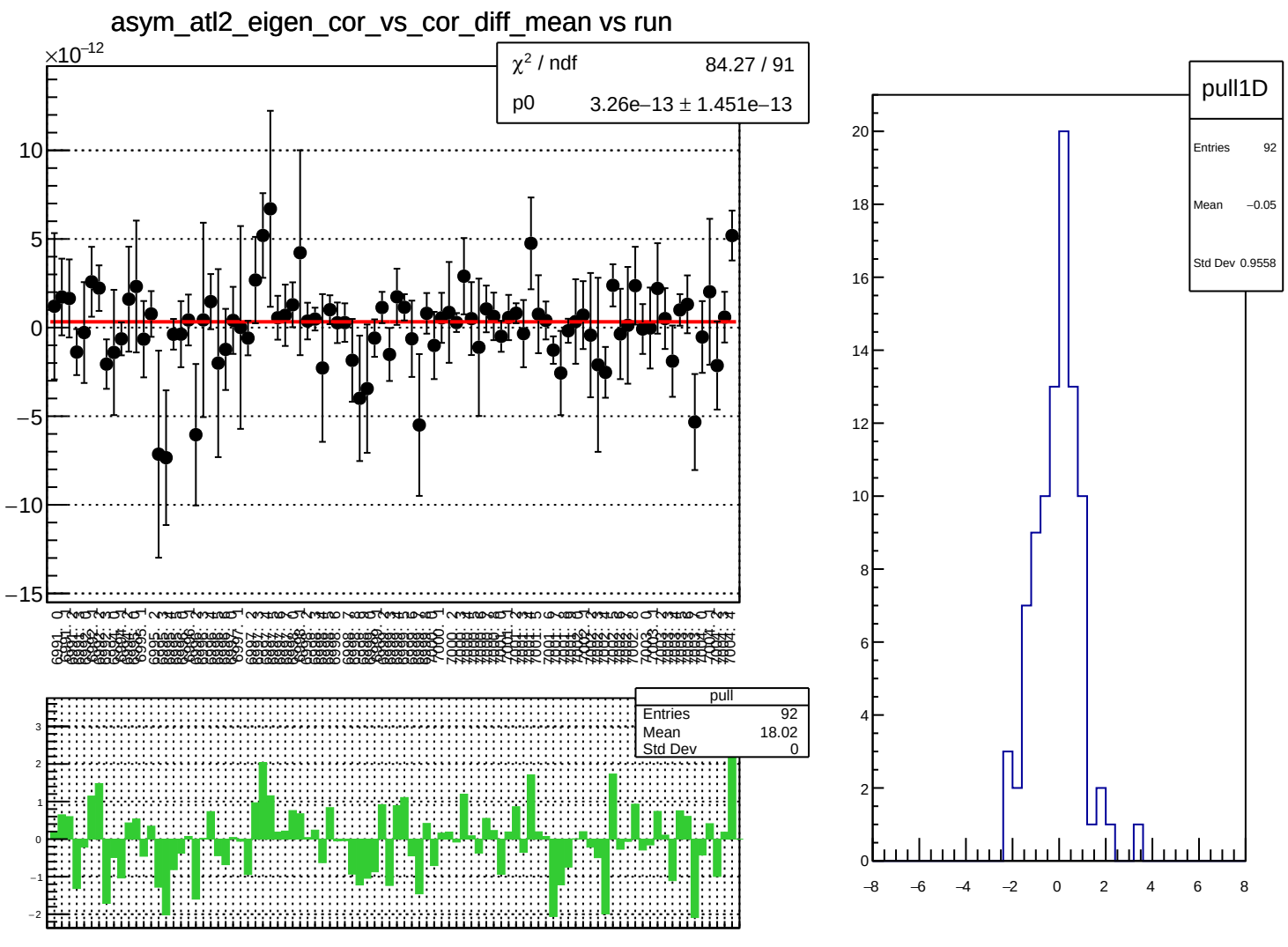

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.033e+05 / 91
p0 0.03261 ± 2.609e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

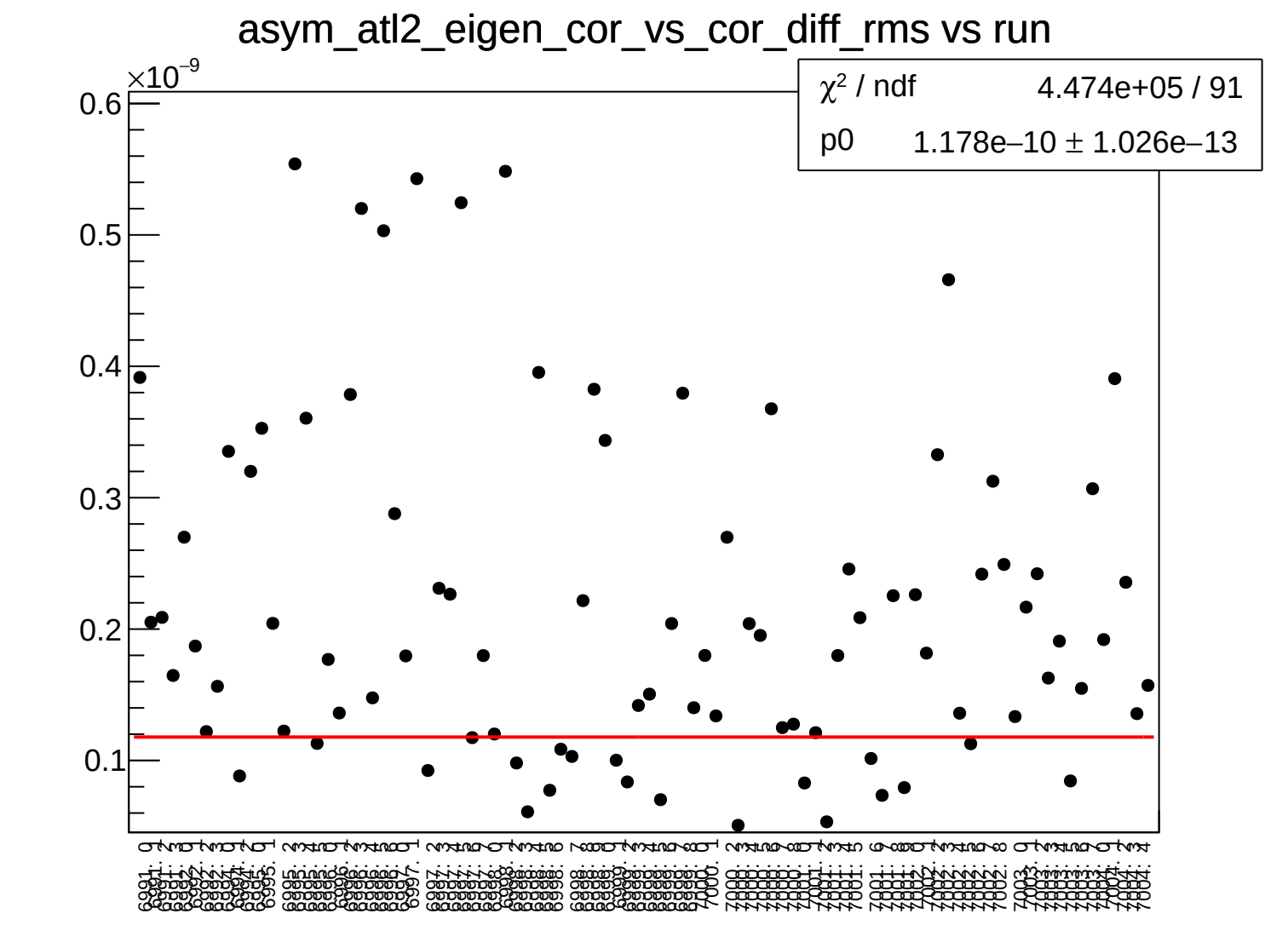

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 91
p0 −0.7505 ± 0.7807
pull
Entries 92
Mean 3166
Std Dev 0
pull1D
Entries 92
Mean −0.00189
Std Dev 1.077

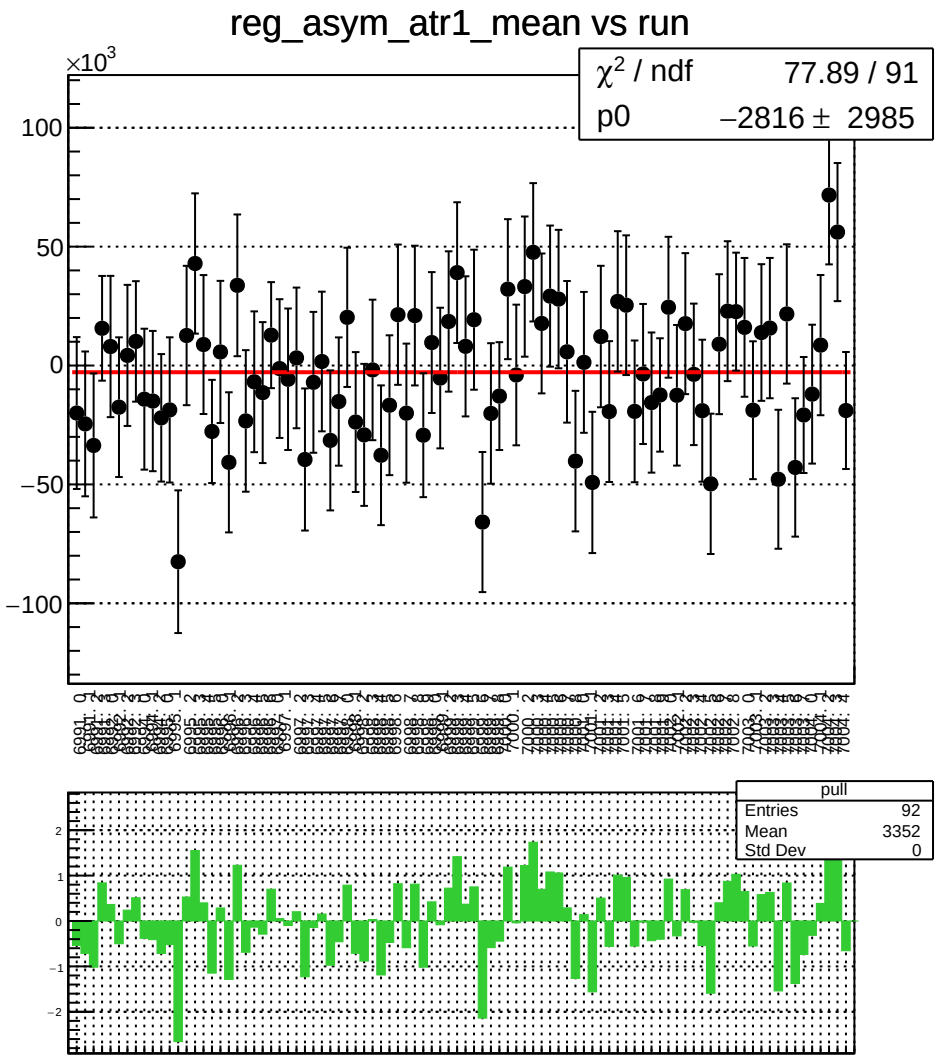

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.525e+04 / 91
p0 730.3 ± 0.552
1000
900
800
700
600

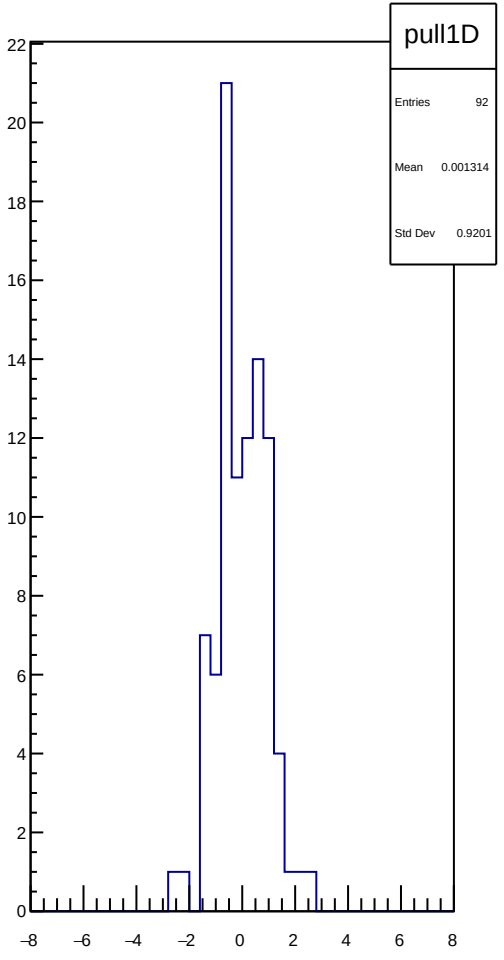

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 91
p0 −0.7505 ± 0.7807
pull
Entries 92
Mean 3166
Std Dev 0
pull1D
Entries 92
Mean −0.00189
Std Dev 1.077

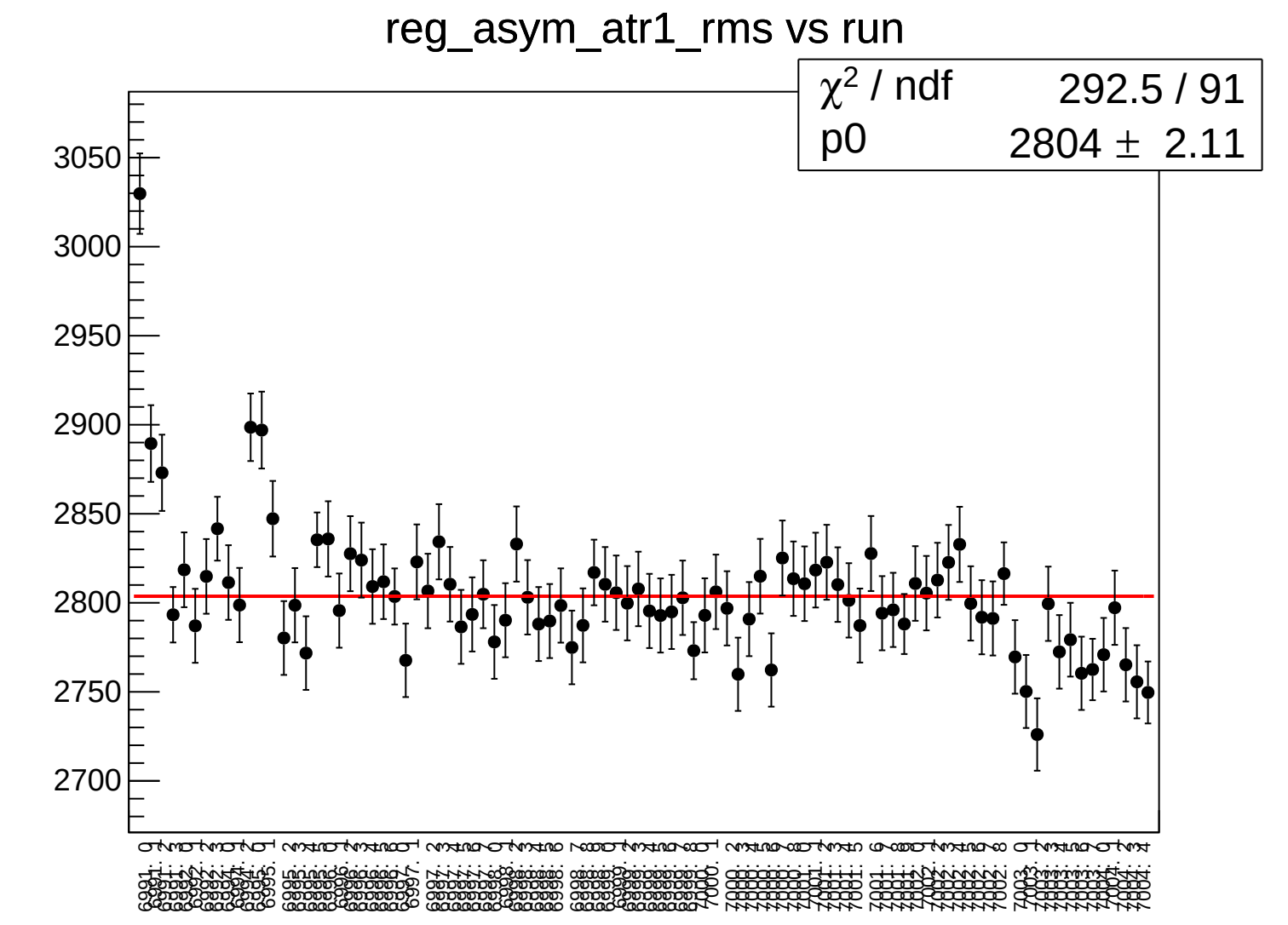

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.525e+04 / 91
p0 730.3 ± 0.552
1000
900
800
700
600

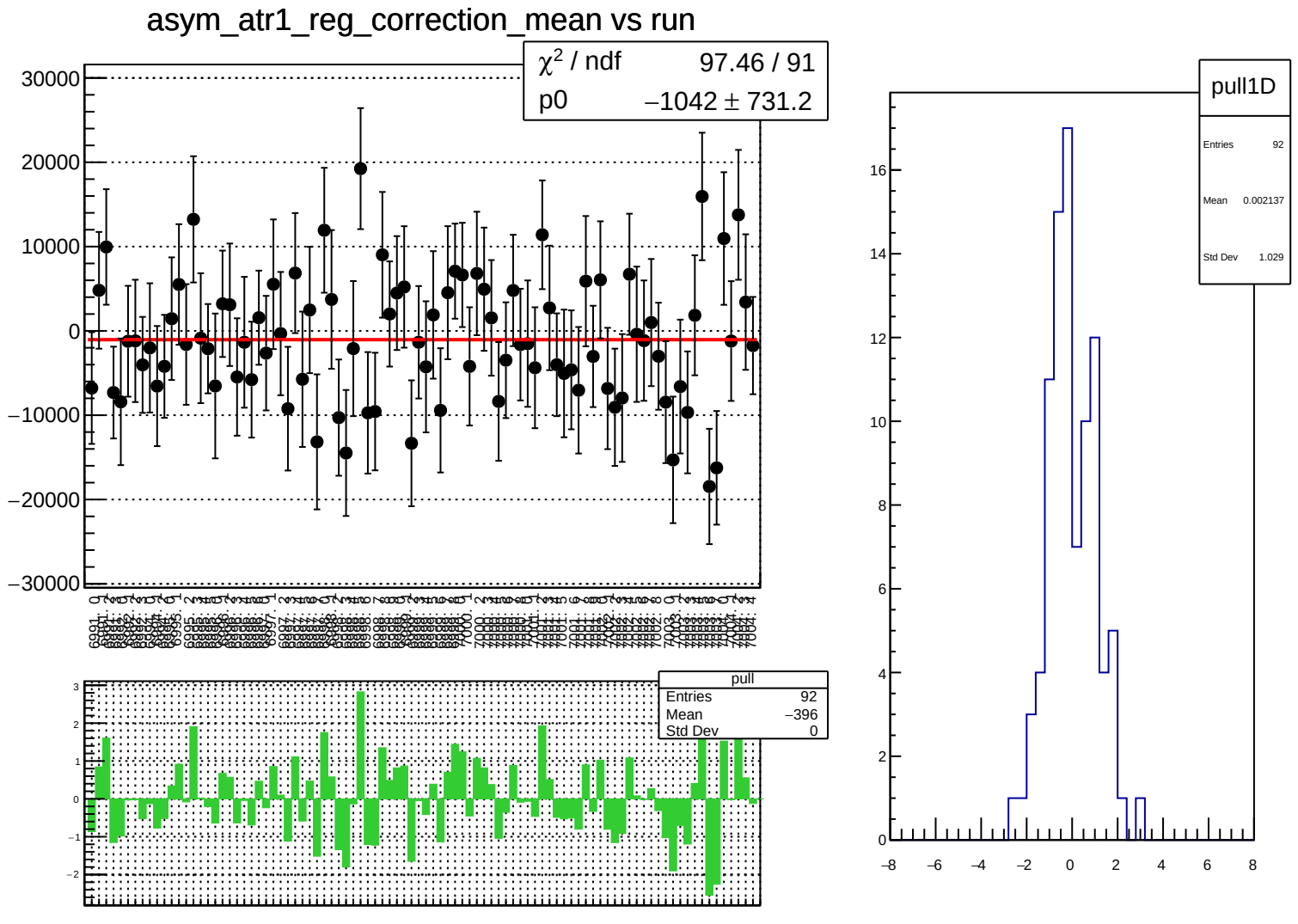

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.27 / 91
p0 3.26e−13 ± 1.451e−13
10
5
0
−5
−10
−15
pull
Entries 92
Mean 18.02
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.05
Std Dev 0.9558
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

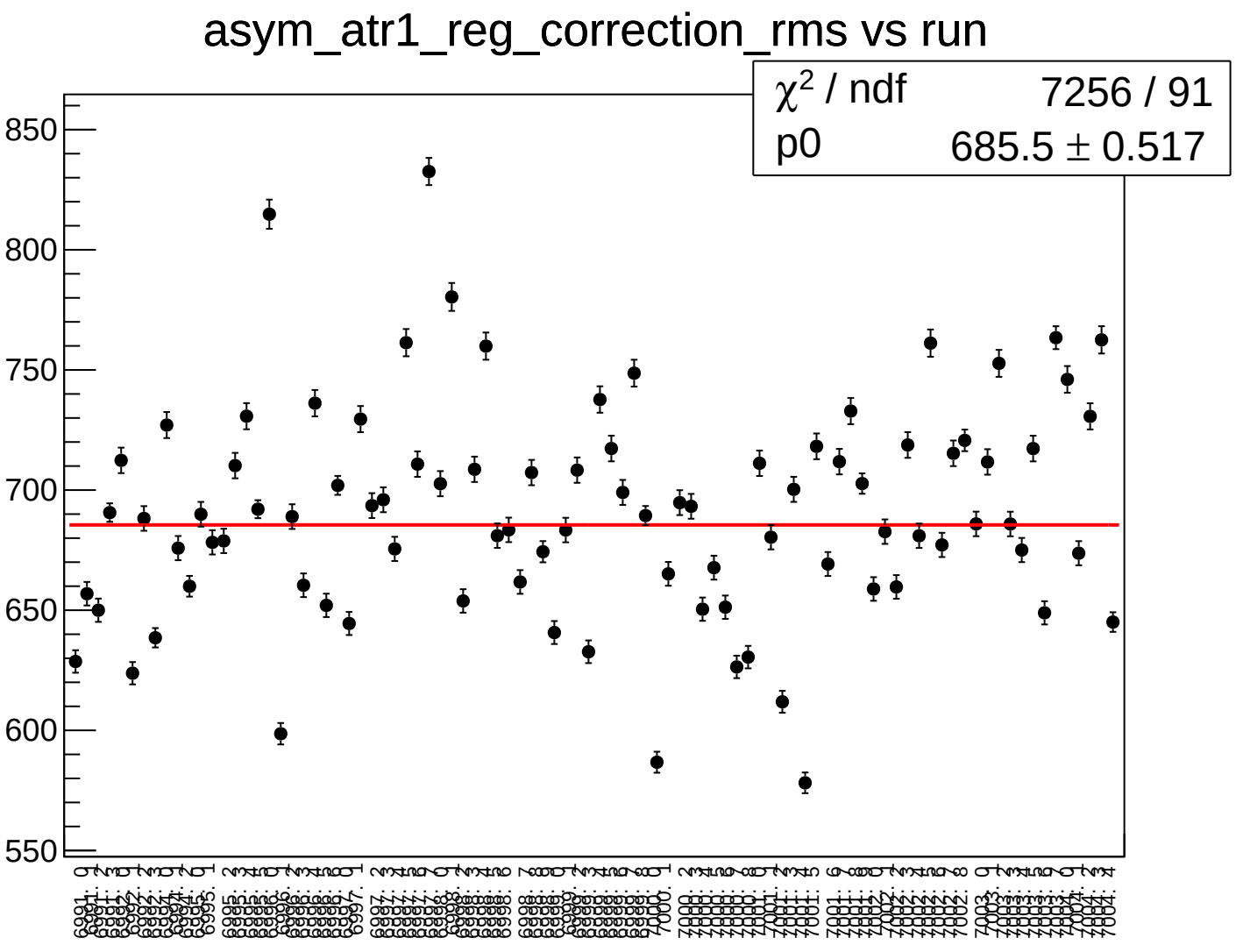

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 4.474e+05 / 91
p0 1.178e−10 ± 1.026e−13

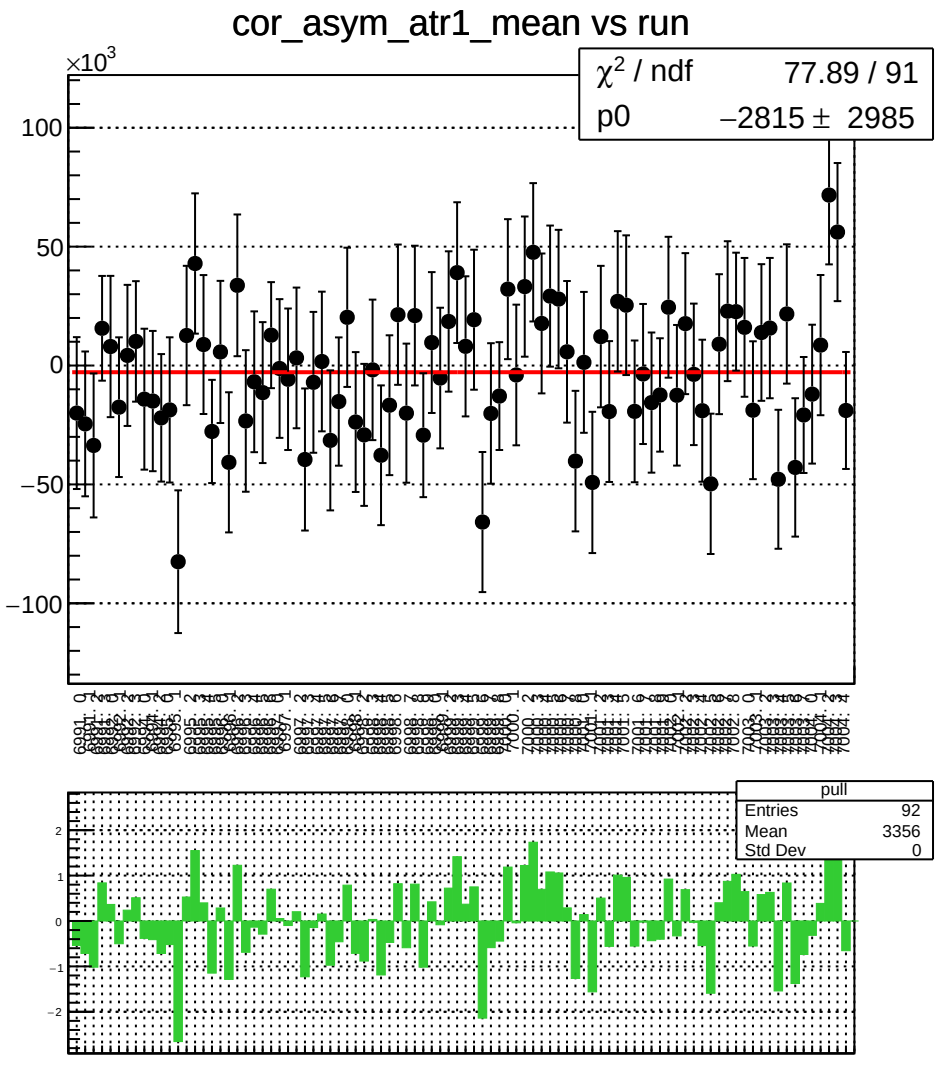

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 77.89 / 91
p0 −2816 ± 2985
100
50
0
−50
−100
pull
Entries 92
Mean 3352
Std Dev 0
2
1
0
−1
−2

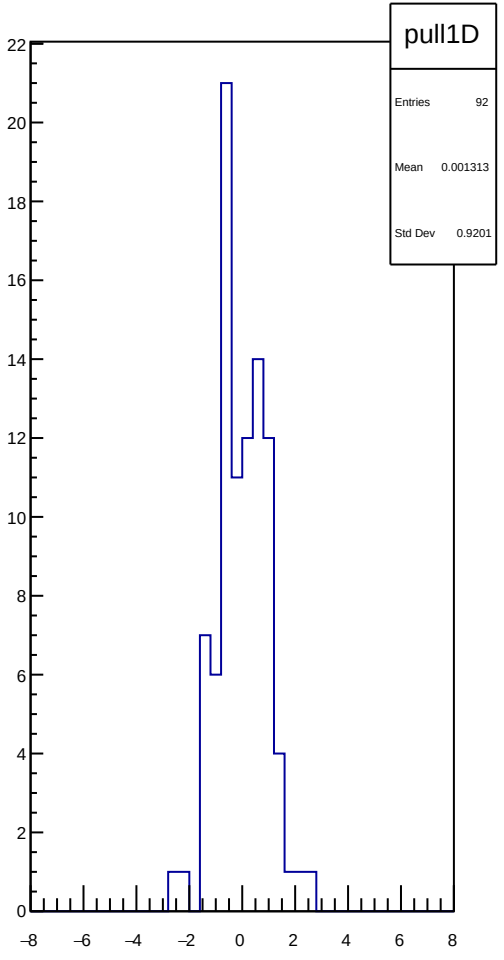

pull1D
Entries 92
Mean 0.001314
Std Dev 0.9201
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

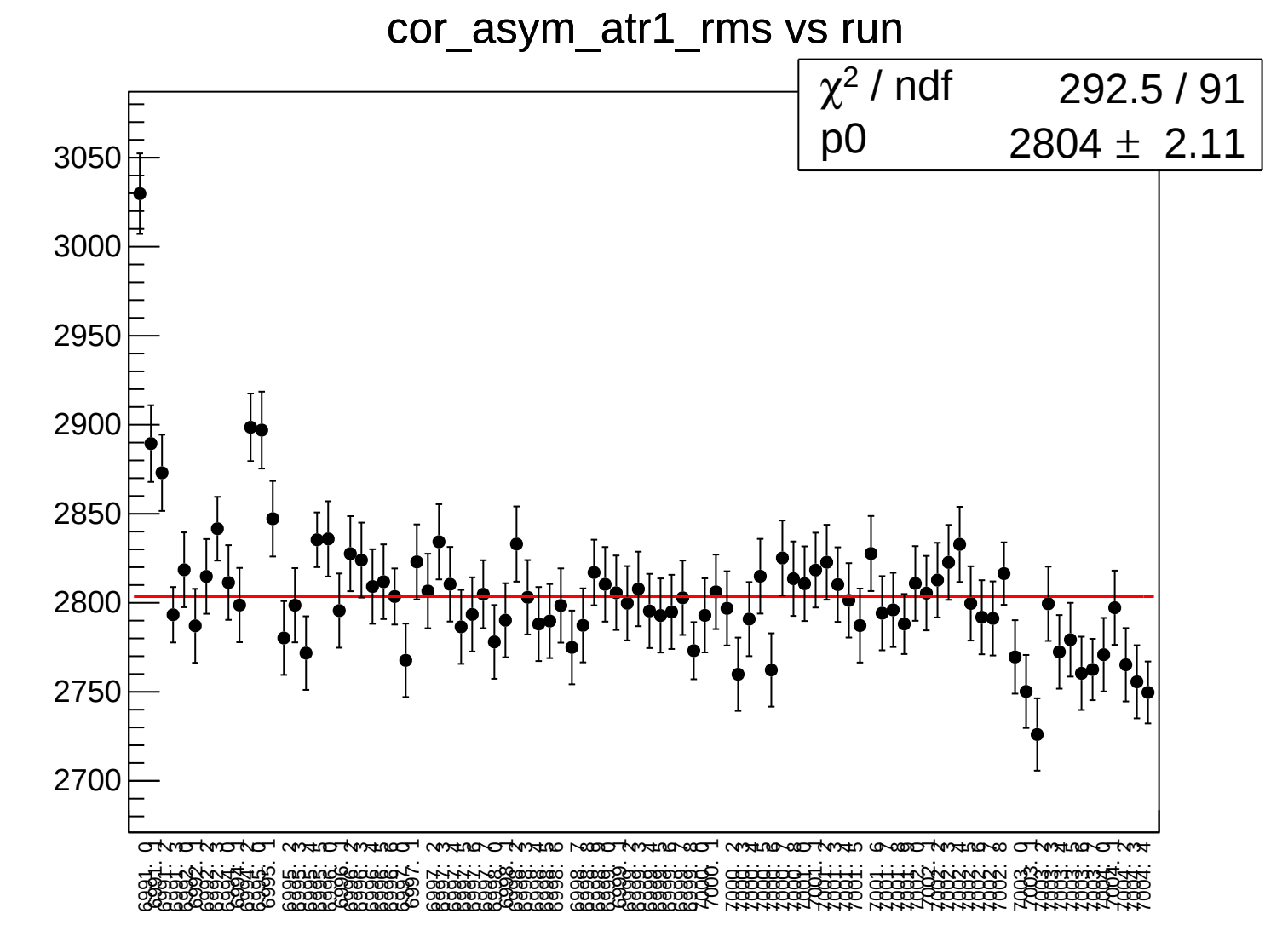

reg_asym_atr1_rms vs run
χ² / ndf 292.5 / 91
p0 2804 ± 2.11
3050
3000
2950
2900
2850
2800
2750
2700

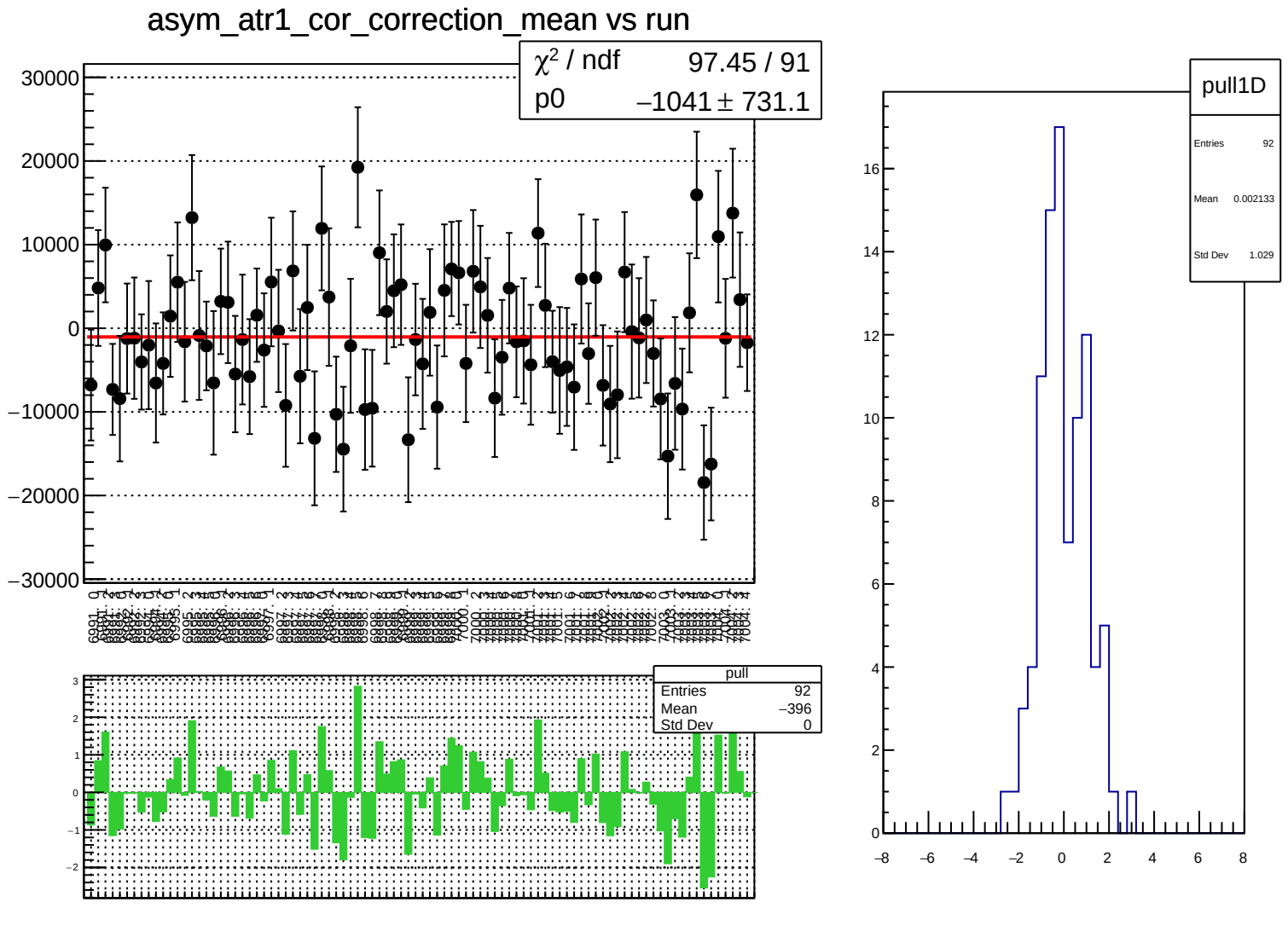

asym_atr1_reg_correction_mean vs run
χ² / ndf 97.46 / 91
p0 −1042 ± 731.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −396
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002137
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

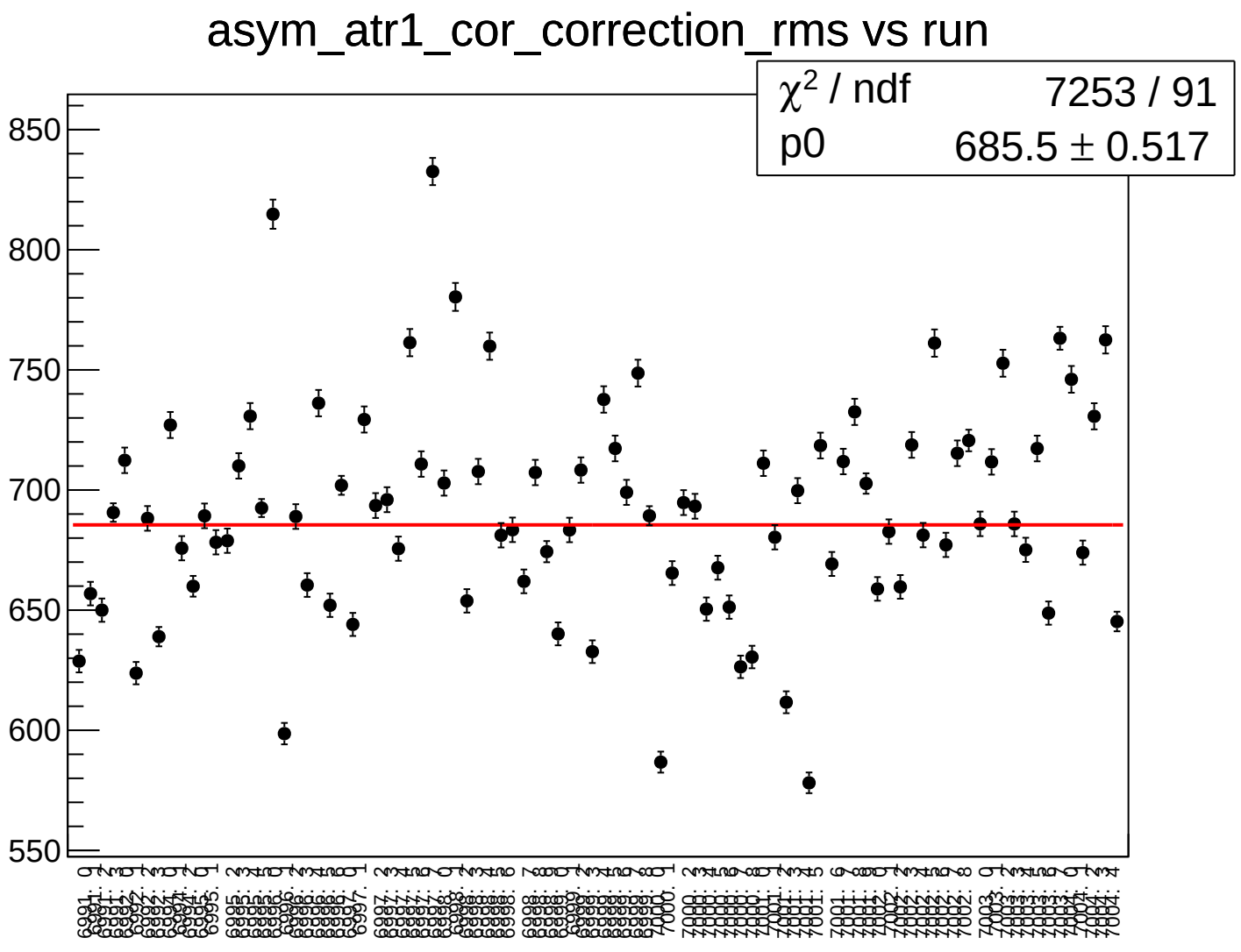

asym_atr1_reg_correction_rms vs run
χ² / ndf 7256 / 91
p0 685.5 ± 0.517
850
800
750
700
650
600
550

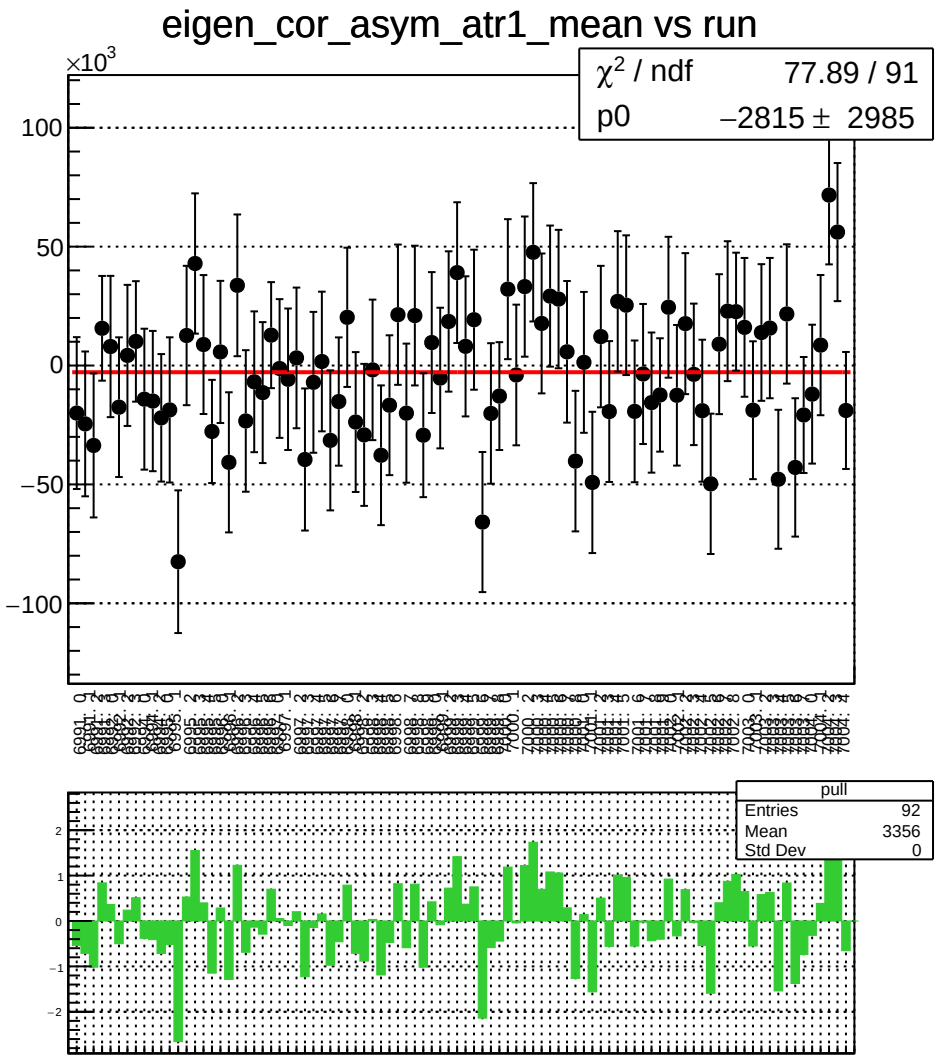

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 77.89 / 91
p0 −2815 ± 2985
100
50
0
−50
−100
pull
Entries 92
Mean 3356
Std Dev 0
2
1
0
−1
−2

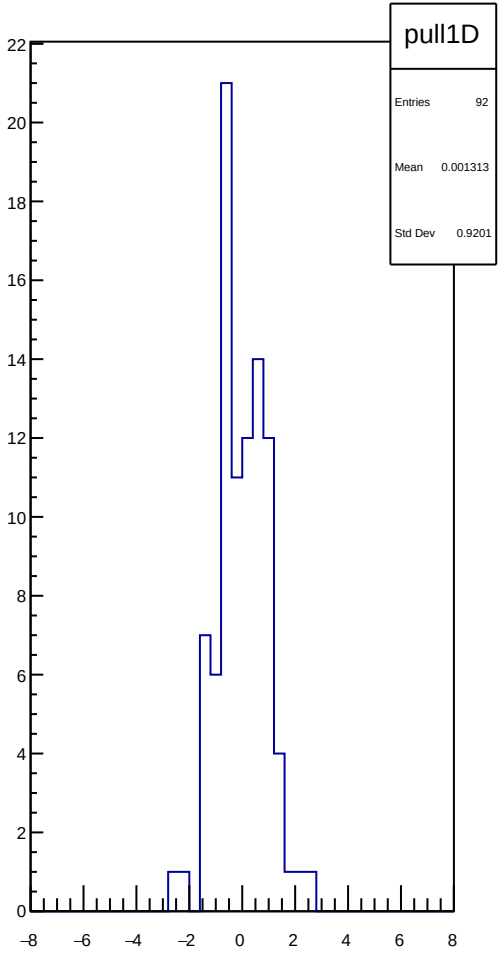

pull1D
Entries 92
Mean 0.001313
Std Dev 0.9201
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

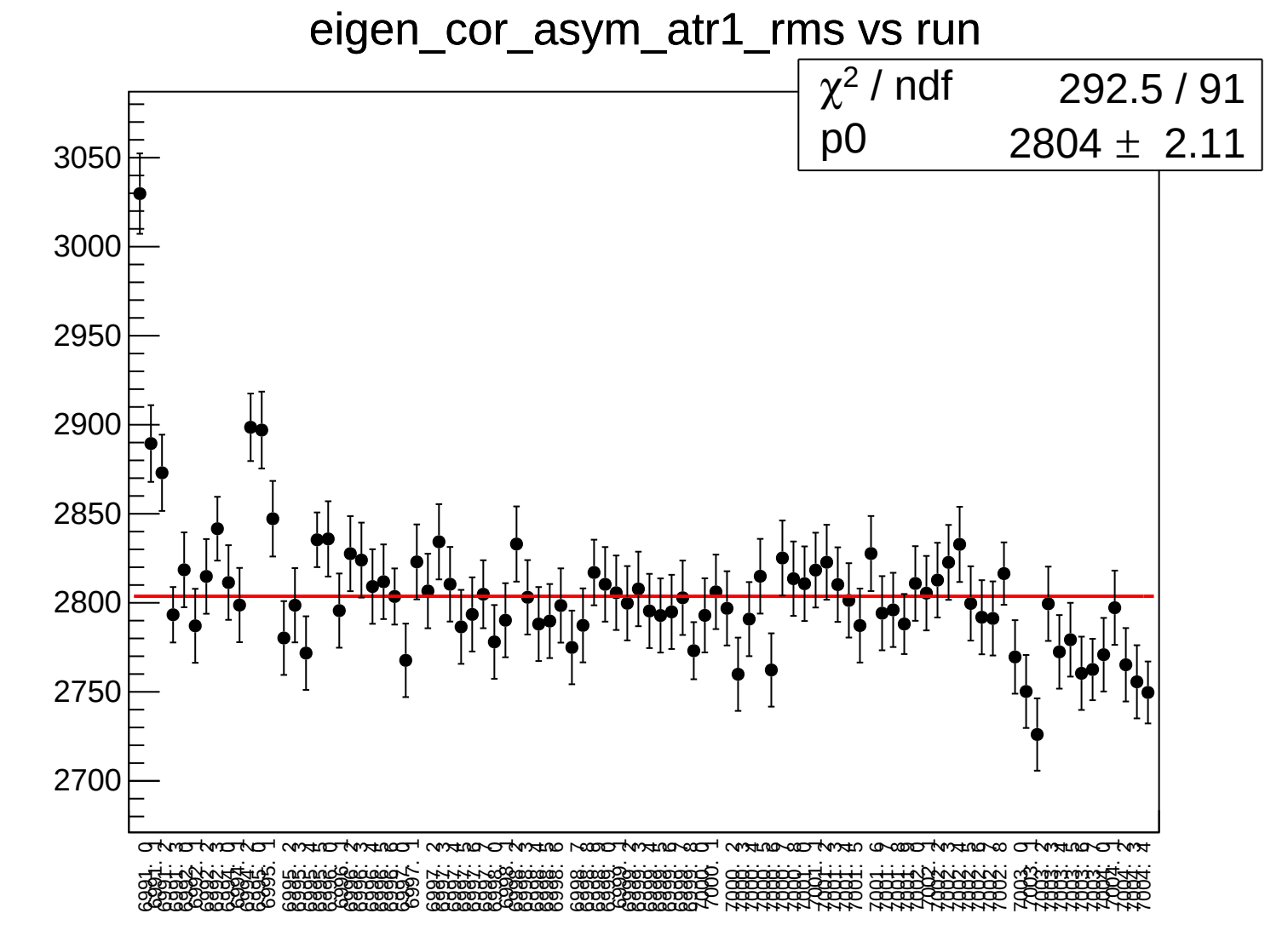

cor_asym_atr1_rms vs run
χ² / ndf 292.5 / 91
p0 2804 ± 2.11
3050
3000
2950
2900
2850
2800
2750
2700

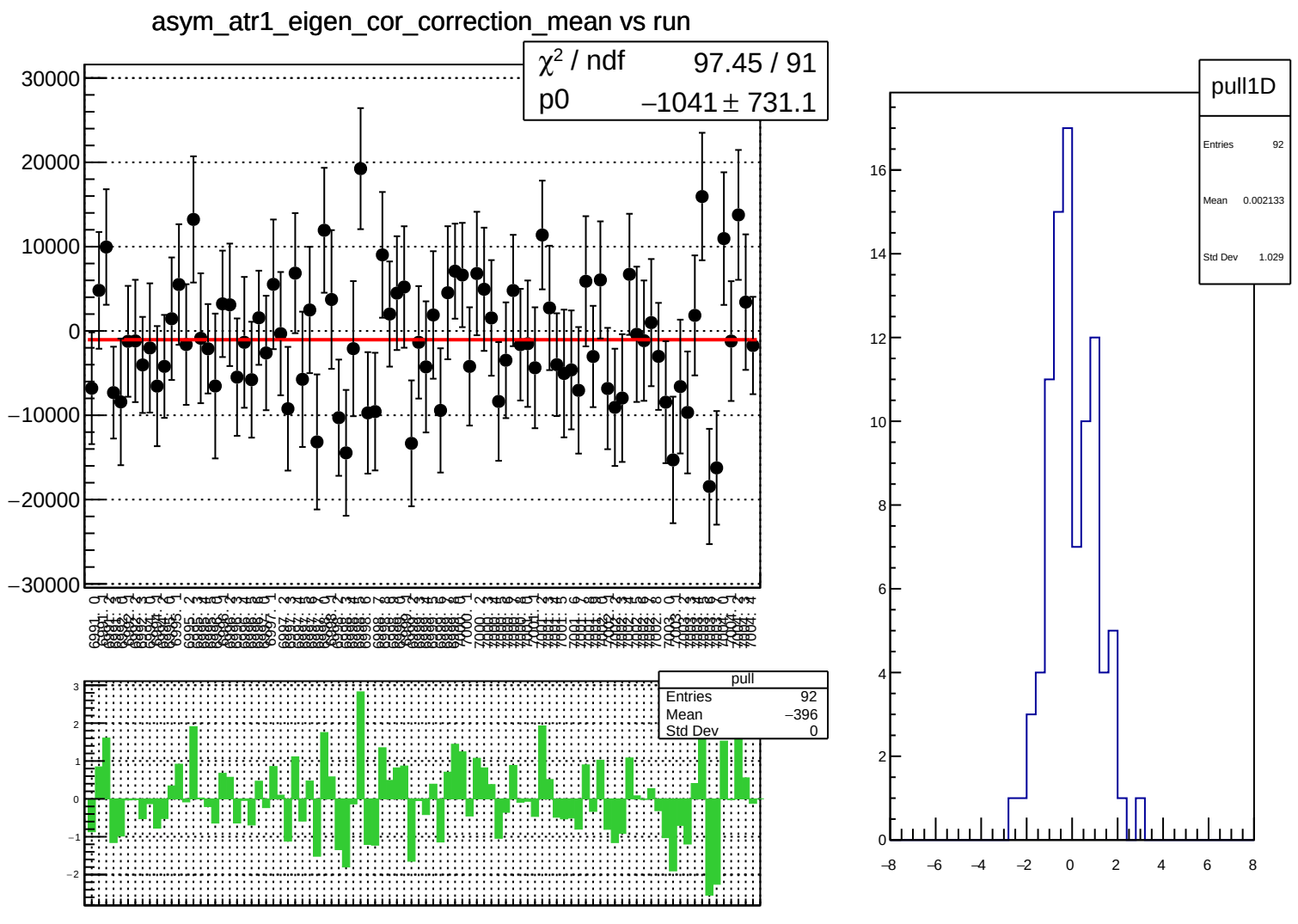

asym_atr1_cor_correction_mean vs run
χ² / ndf 97.45 / 91
p0 −1041 ± 731.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −396
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002133
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

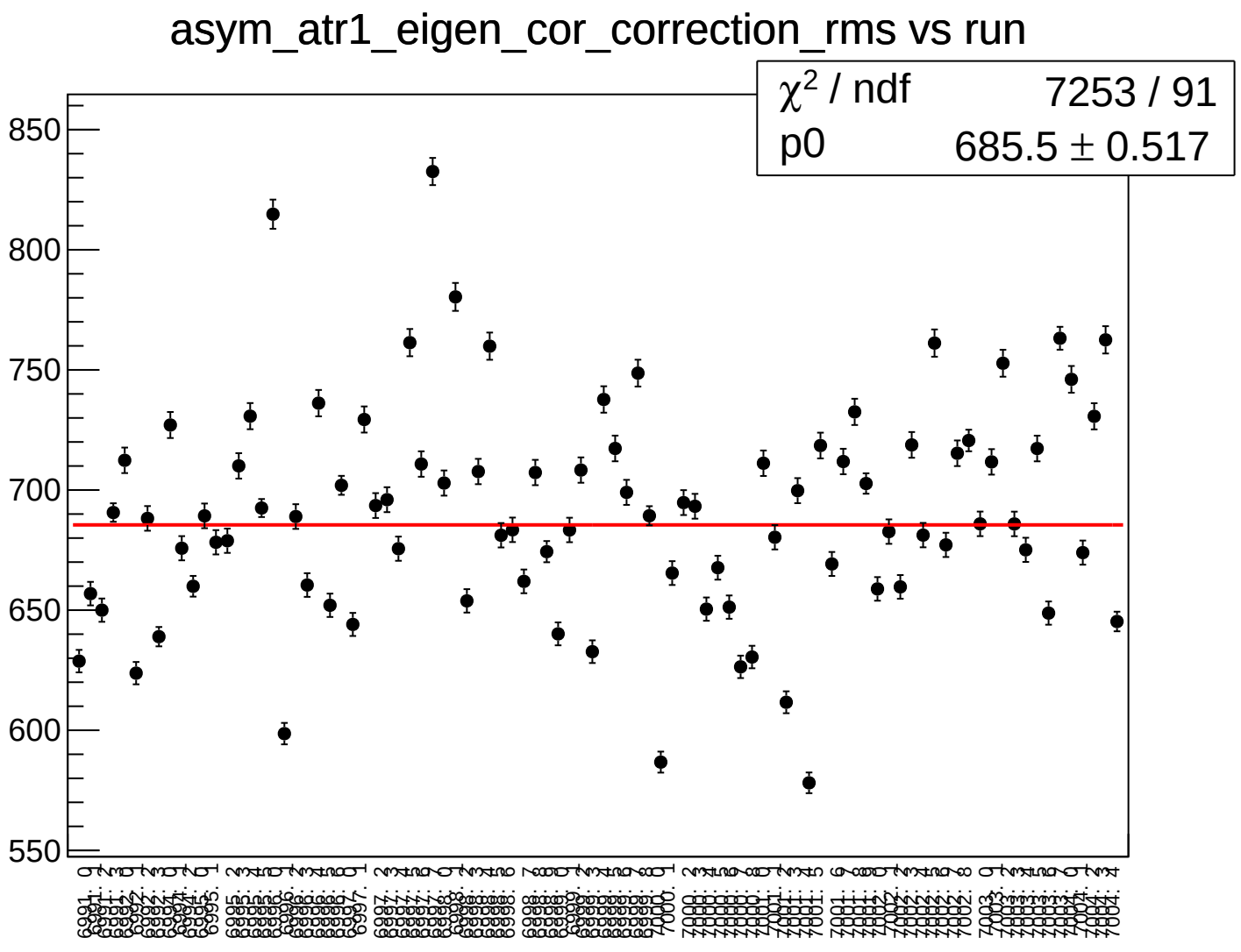

asym_atr1_cor_correction_rms vs run
χ² / ndf 7253 / 91
p0 685.5 ± 0.517
850
800
750
700
650
600
550

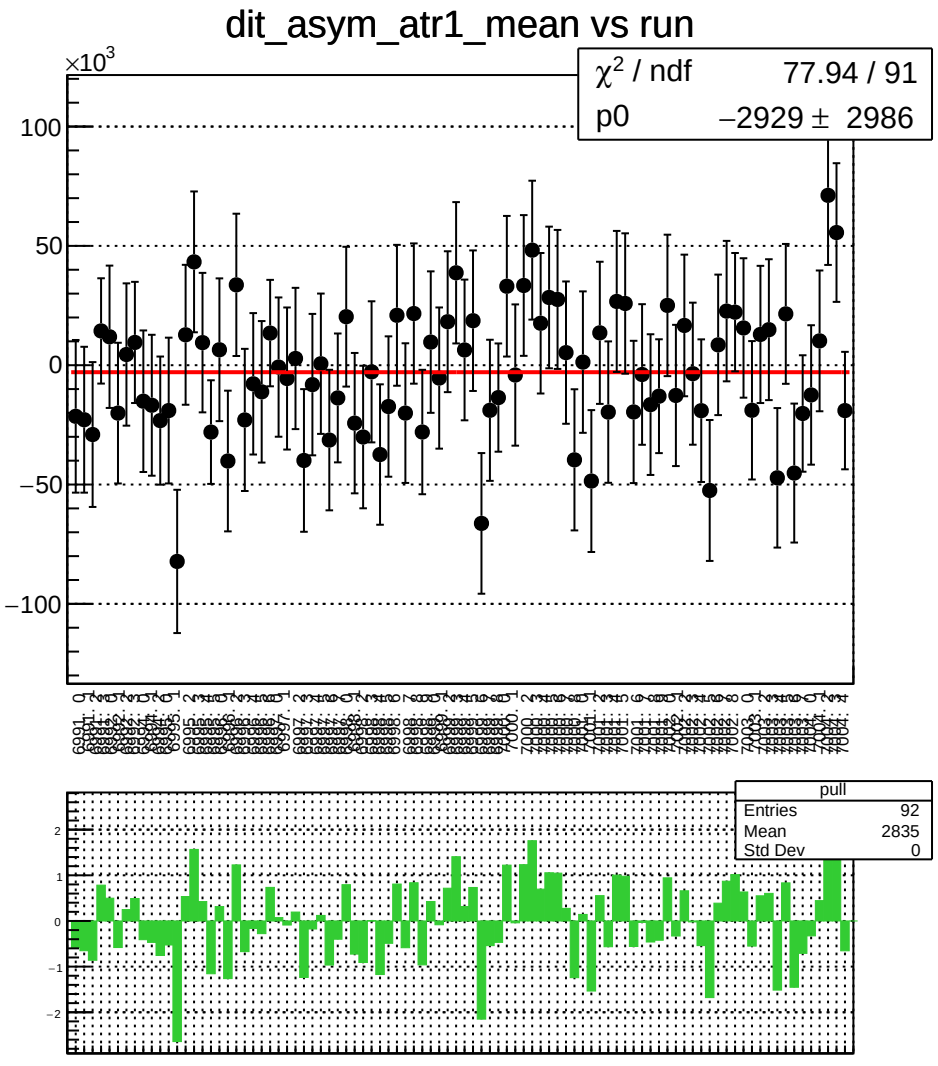

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 77.89 / 91
p0 −2815 ± 2985
100
50
0
−50
−100
pull
Entries 92
Mean 3356
Std Dev 0
2
1
0
−1
−2

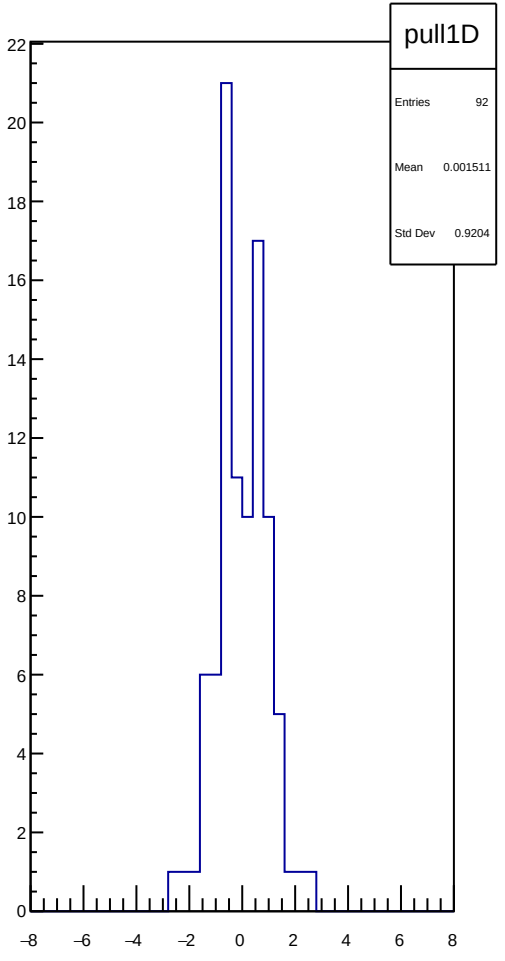

pull1D
Entries 92
Mean 0.001313
Std Dev 0.9201
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

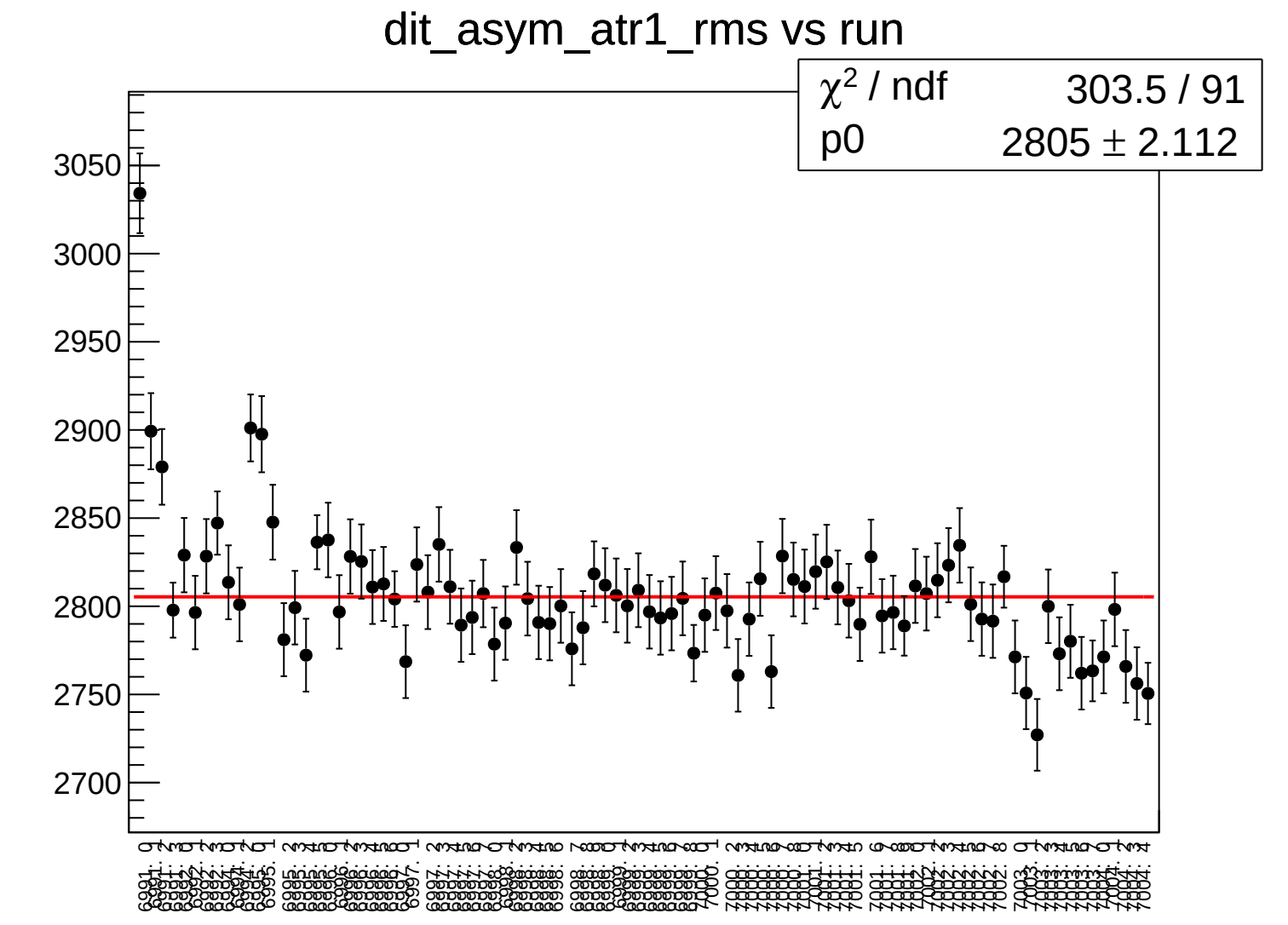

eigen_cor_asym_atr1_rms vs run
χ² / ndf 292.5 / 91
p0 2804 ± 2.11
3050
3000
2950
2900
2850
2800
2750
2700

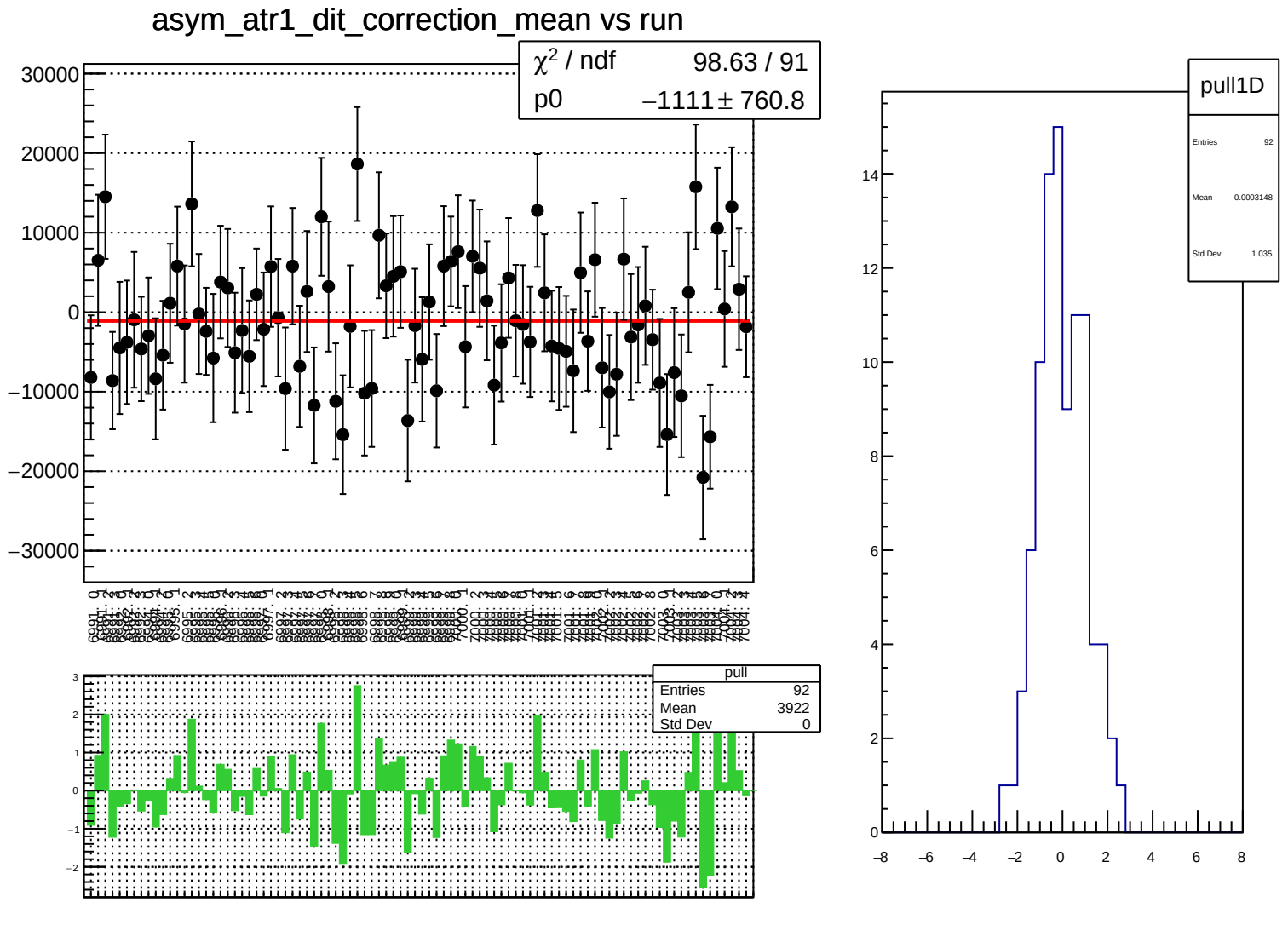

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 97.45 / 91
p0 −1041 ± 731.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −396
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002133
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

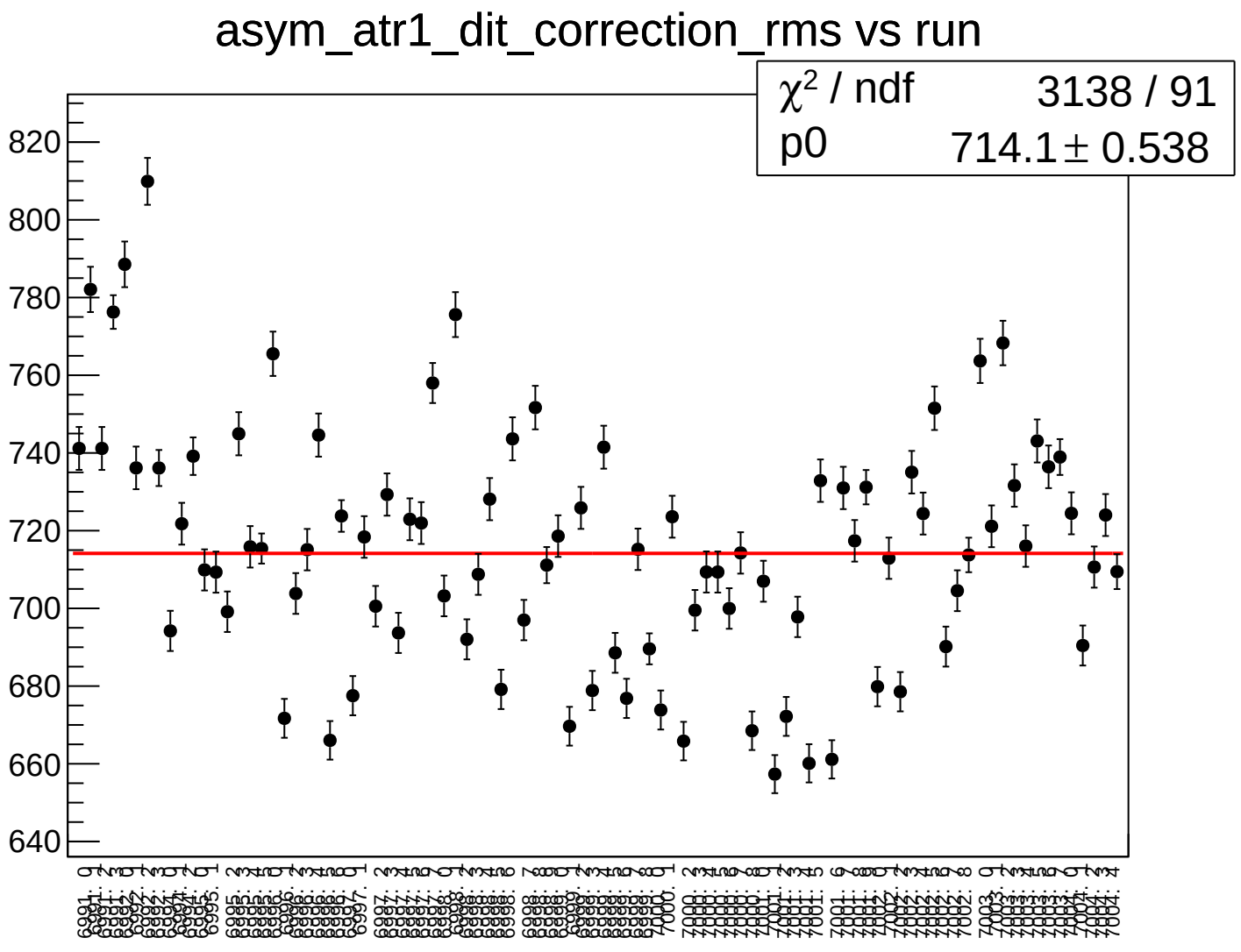

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 7253 / 91
p0 685.5 ± 0.517
850
800
750
700
650
600
550

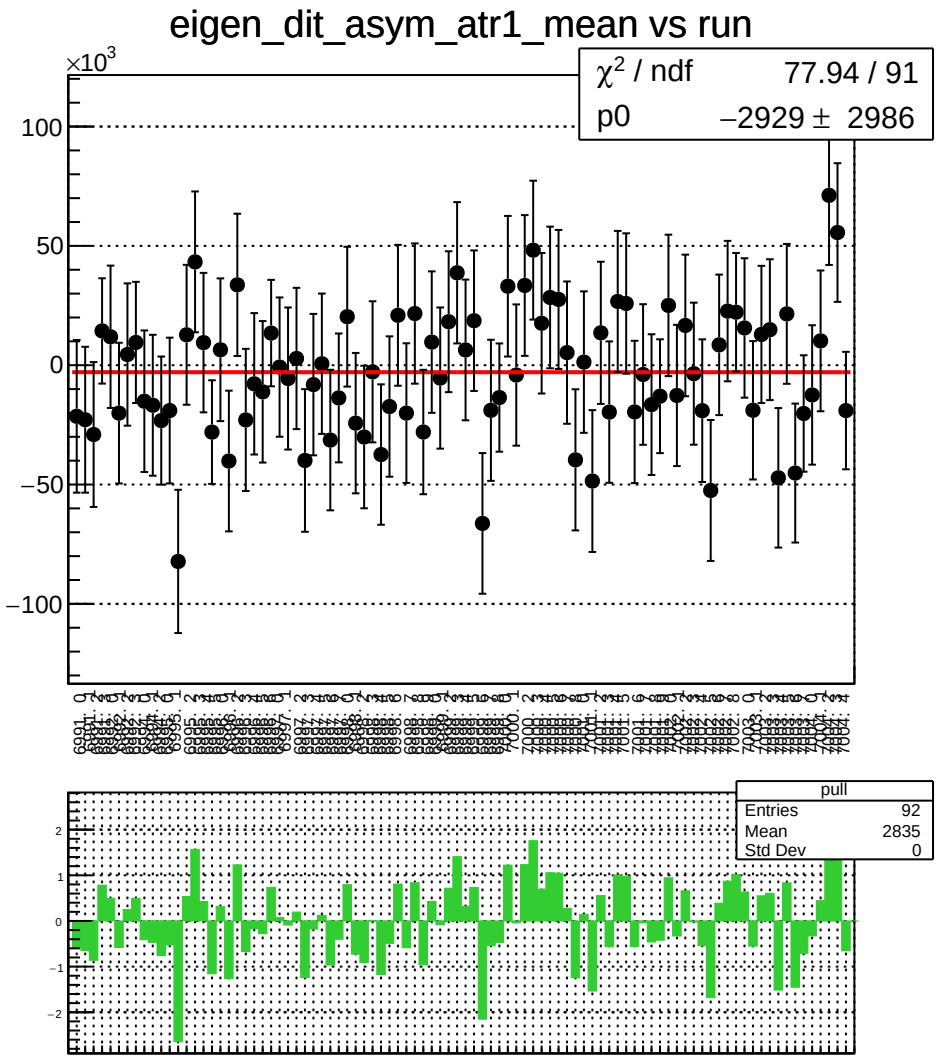

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 77.94 / 91
p0 −2929 ± 2986
100
50
0
−50
−100
pull
Entries 92
Mean 2835
Std Dev 0
2
1
0
−1
−2

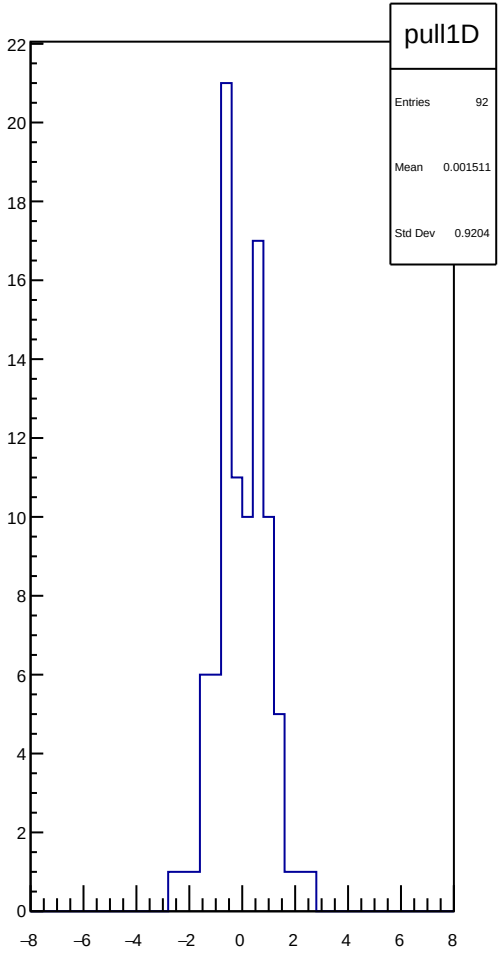

pull1D
Entries 92
Mean 0.001511
Std Dev 0.9204
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

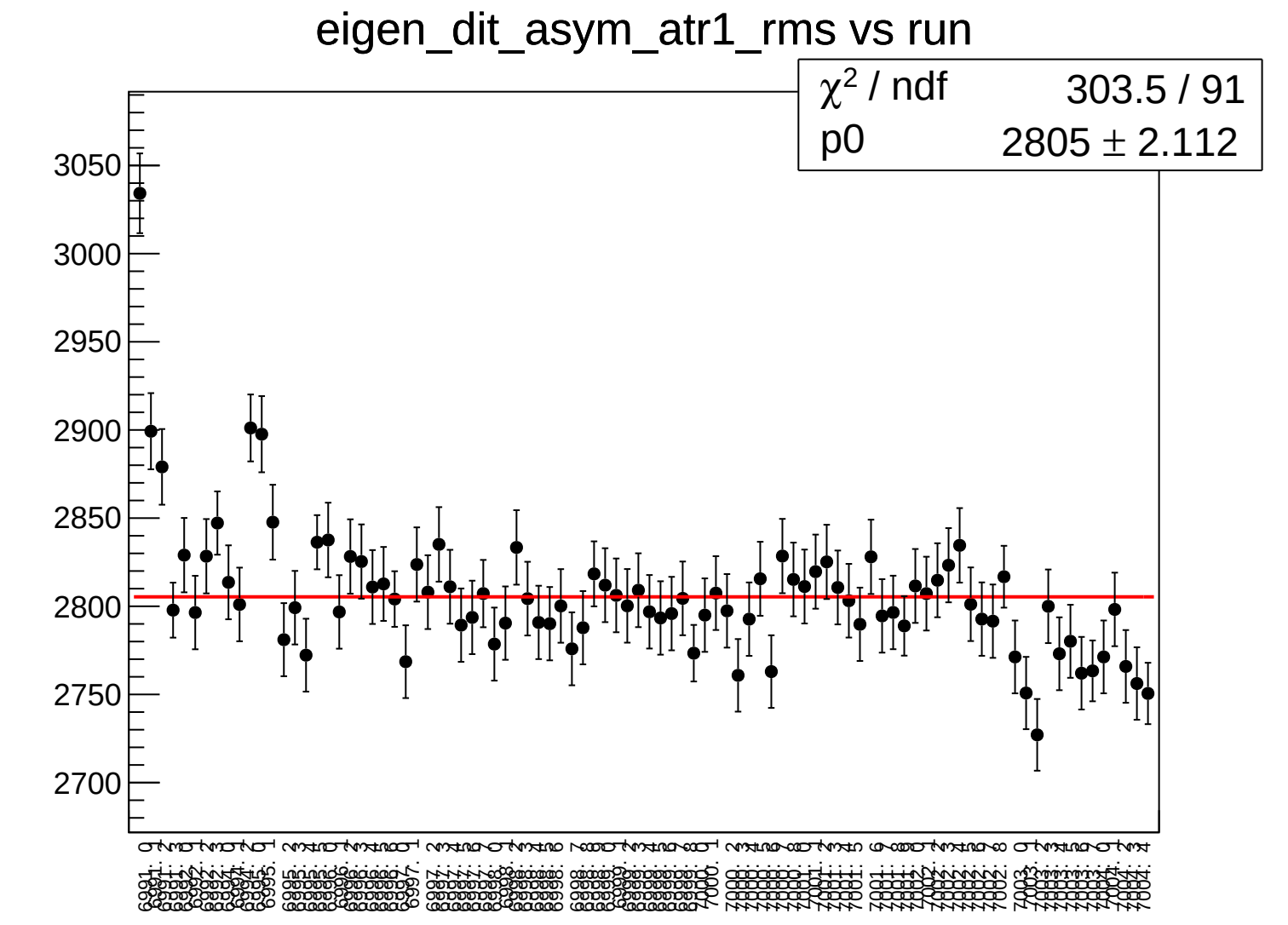

dit_asym_atr1_rms vs run
χ² / ndf 303.5 / 91
p0 2805 ± 2.112
3050
3000
2950
2900
2850
2800
2750
2700

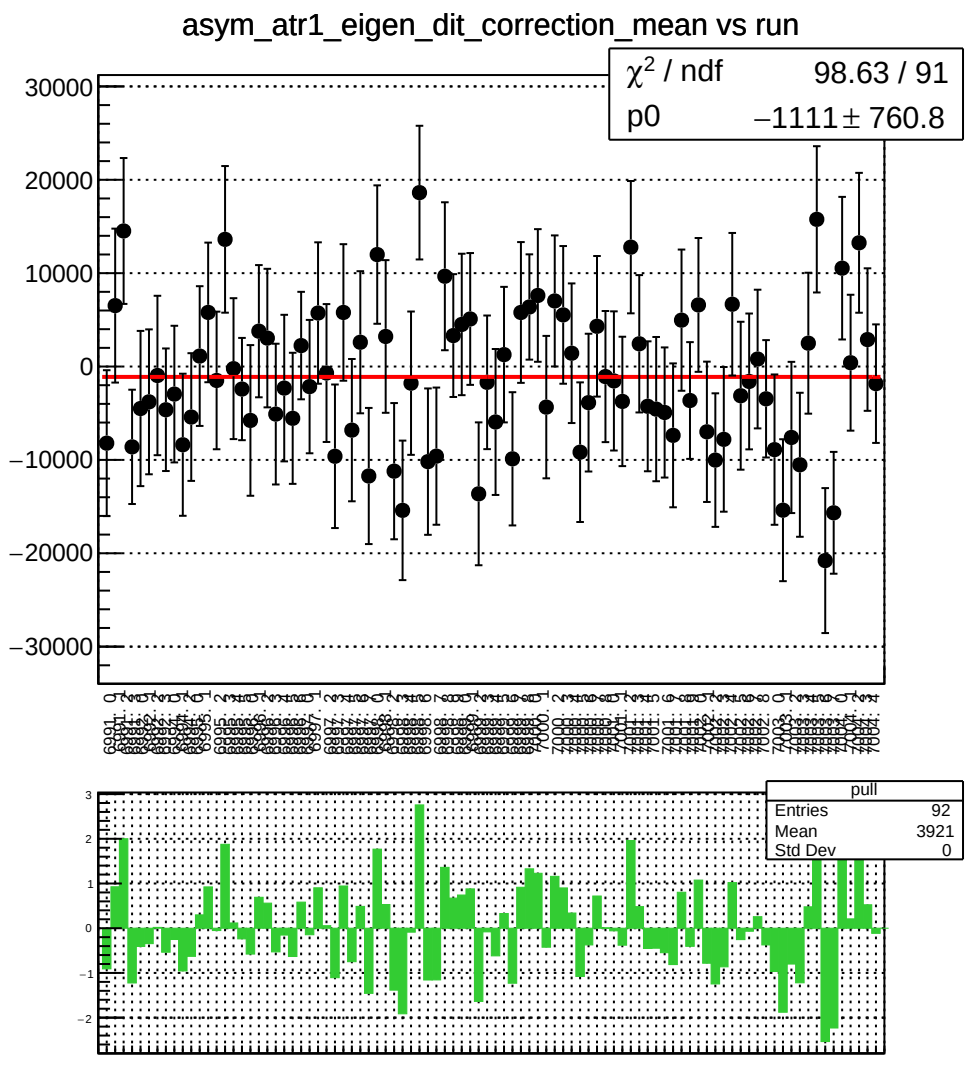

asym_atr1_dit_correction_mean vs run
χ² / ndf 98.63 / 91
p0 −1111 ± 760.8
pull
Entries 92
Mean 3922
Std Dev 0
pull1D
Entries 92
Mean −0.0003148
Std Dev 1.035

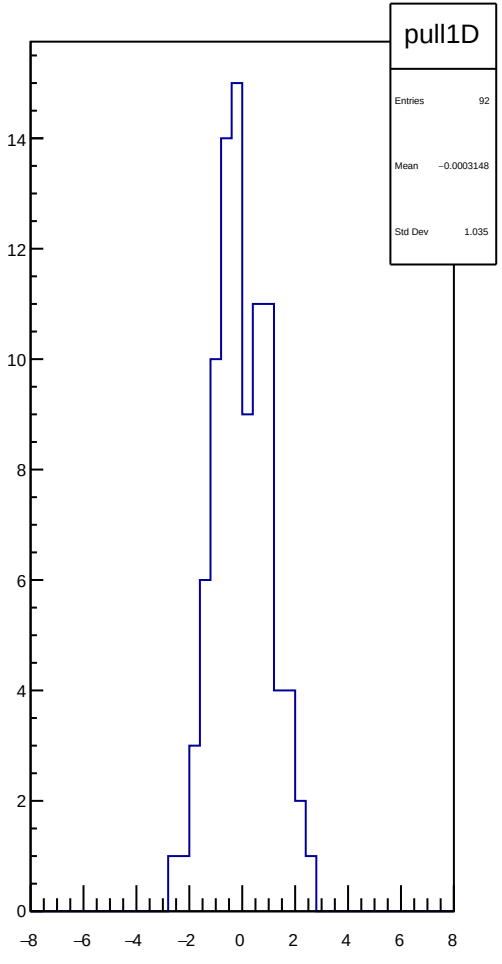

asym_atr1_dit_correction_rms vs run
χ² / ndf 3138 / 91
p0 714.1 ± 0.538
820
800
780
760
740
720
700
680
660
640

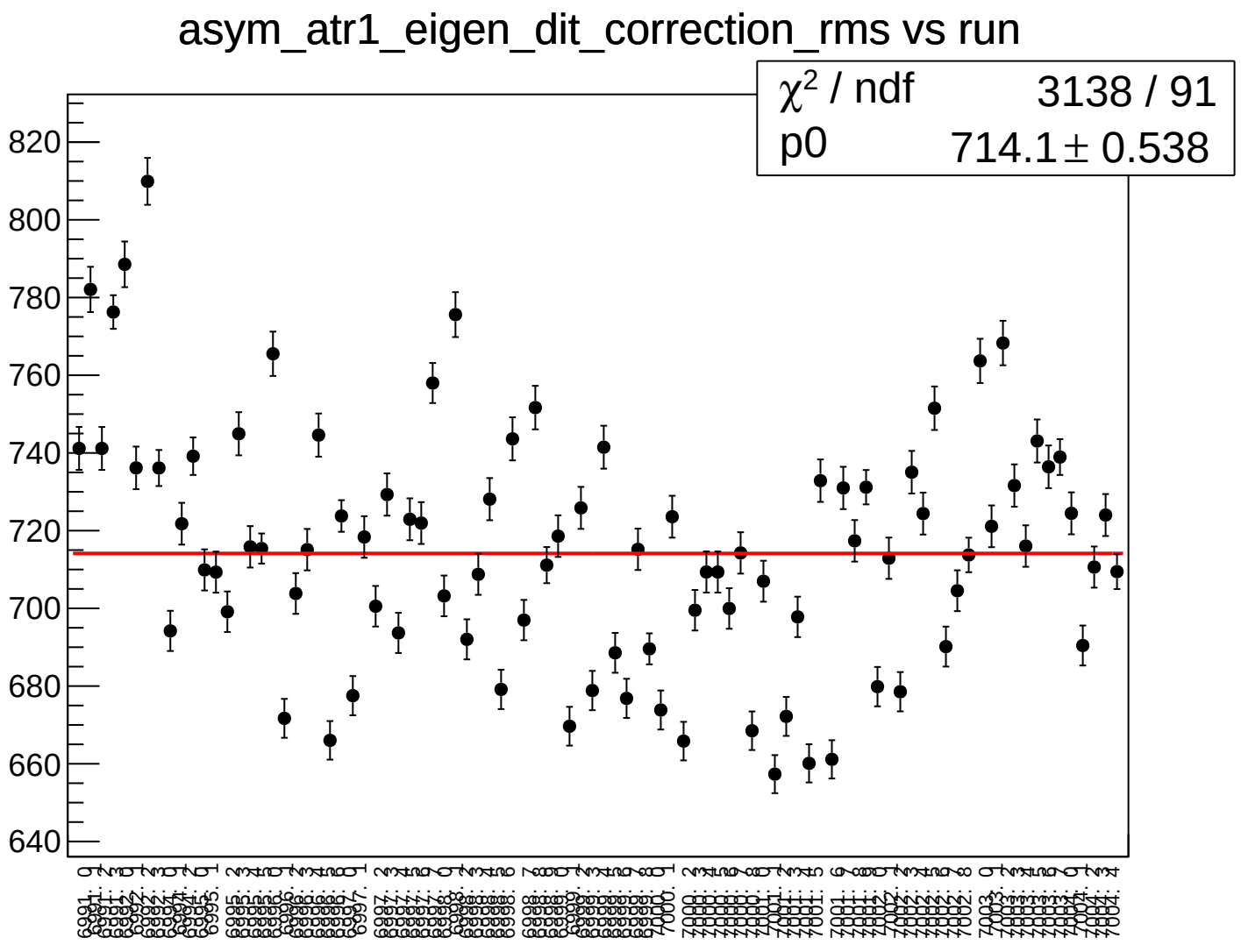

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 77.94 / 91
p0 −2929 ± 2986
100
50
0
−50
−100
pull
Entries 92
Mean 2835
Std Dev 0
2
1
0
−1
−2

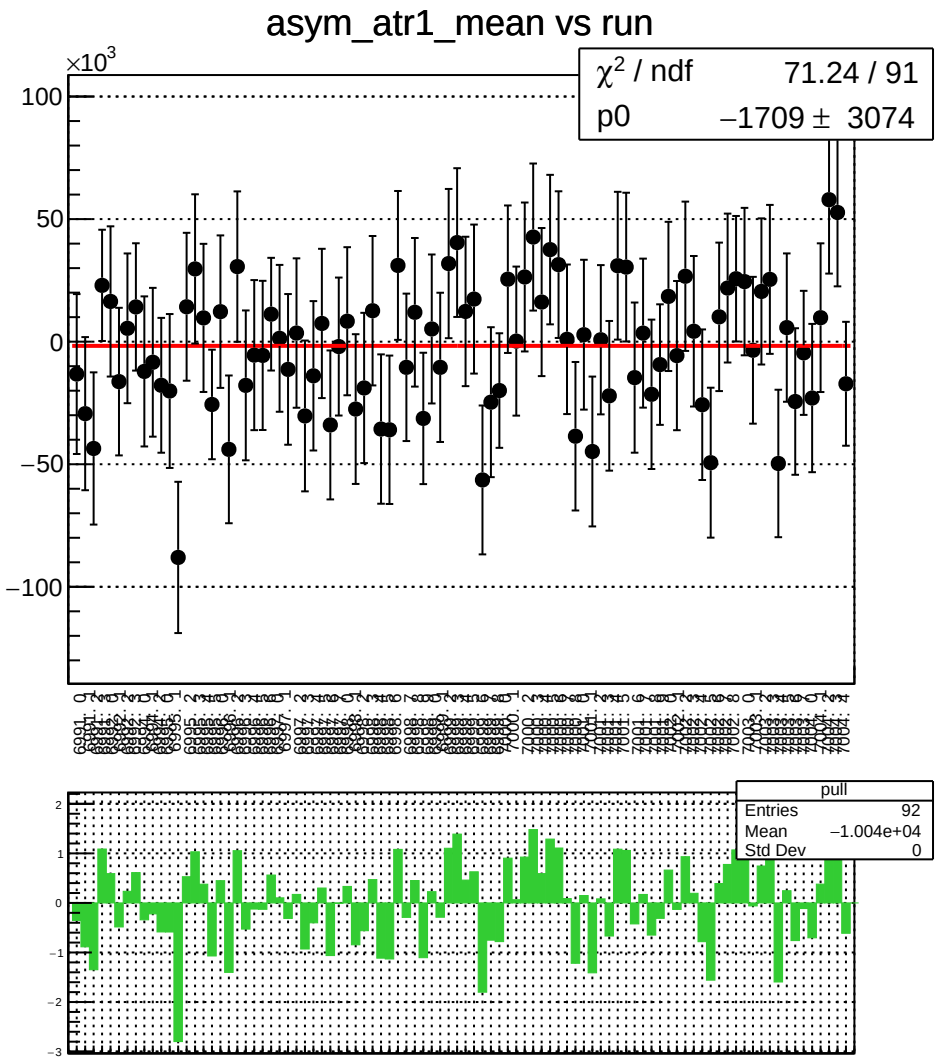

pull1D
Entries 92
Mean 0.001511
Std Dev 0.9204
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

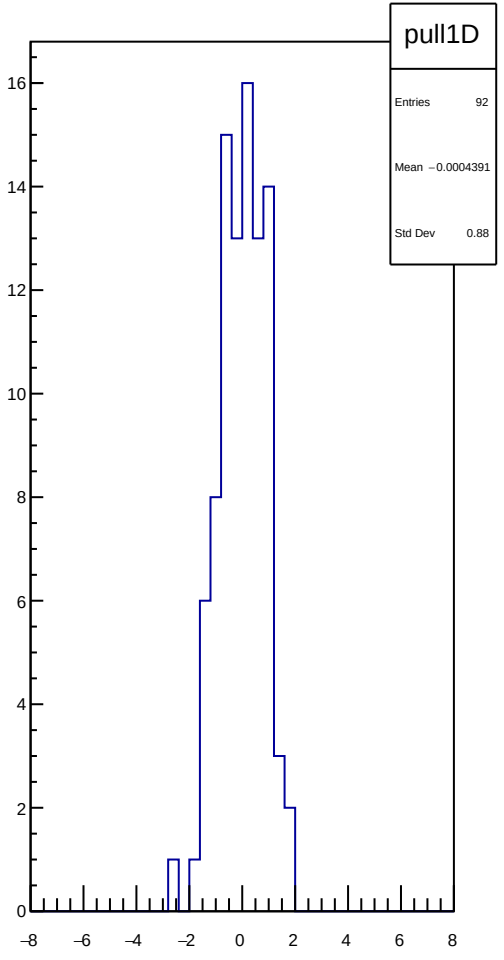

eigen_dit_asym_atr1_rms vs run
χ² / ndf 303.5 / 91
p0 2805 ± 2.112
3050
3000
2950
2900
2850
2800
2750
2700

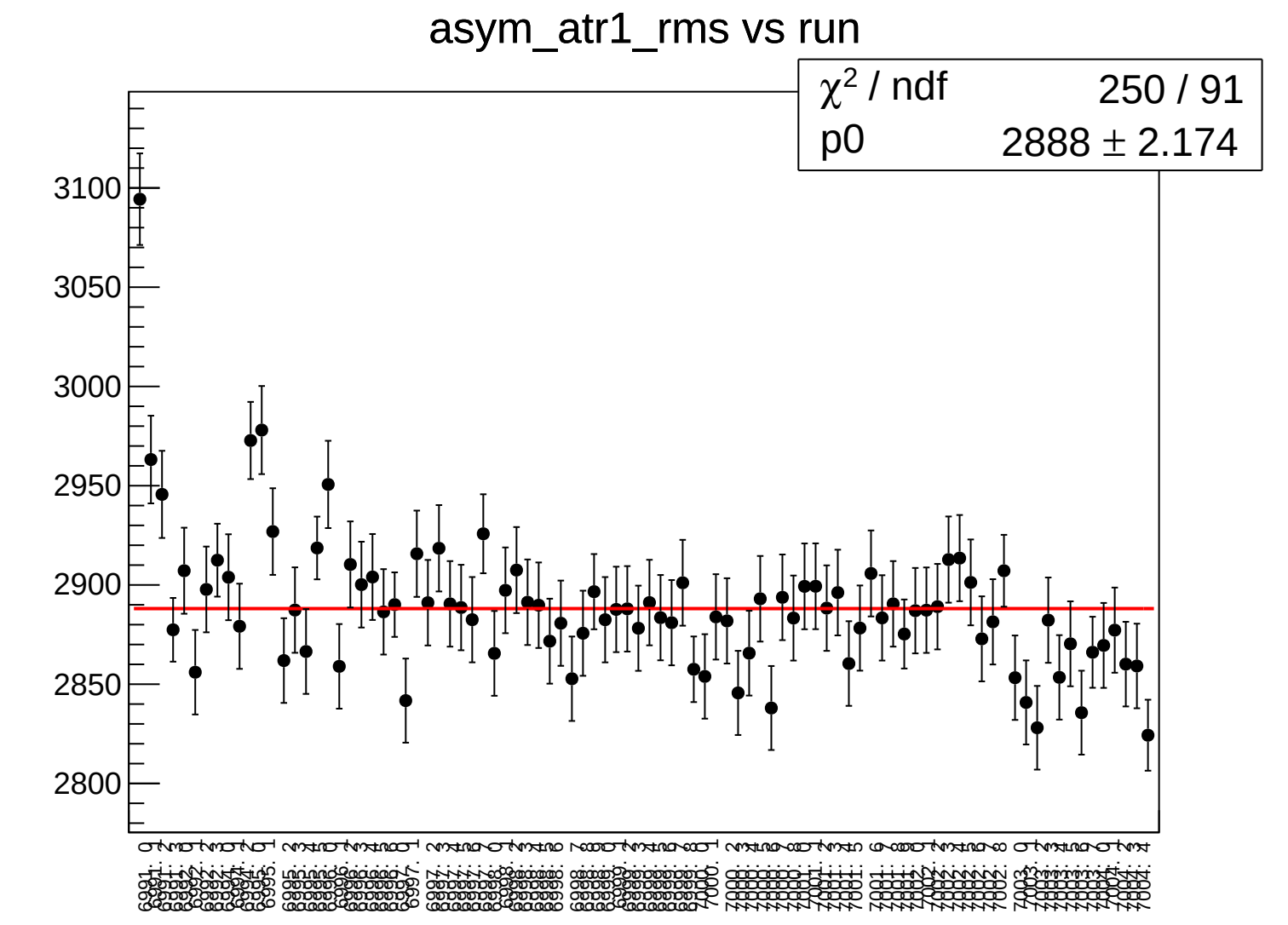

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 98.63 / 91
p0 −1111 ± 760.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 3921
Std Dev 0
3
2
1
0
−1
−2

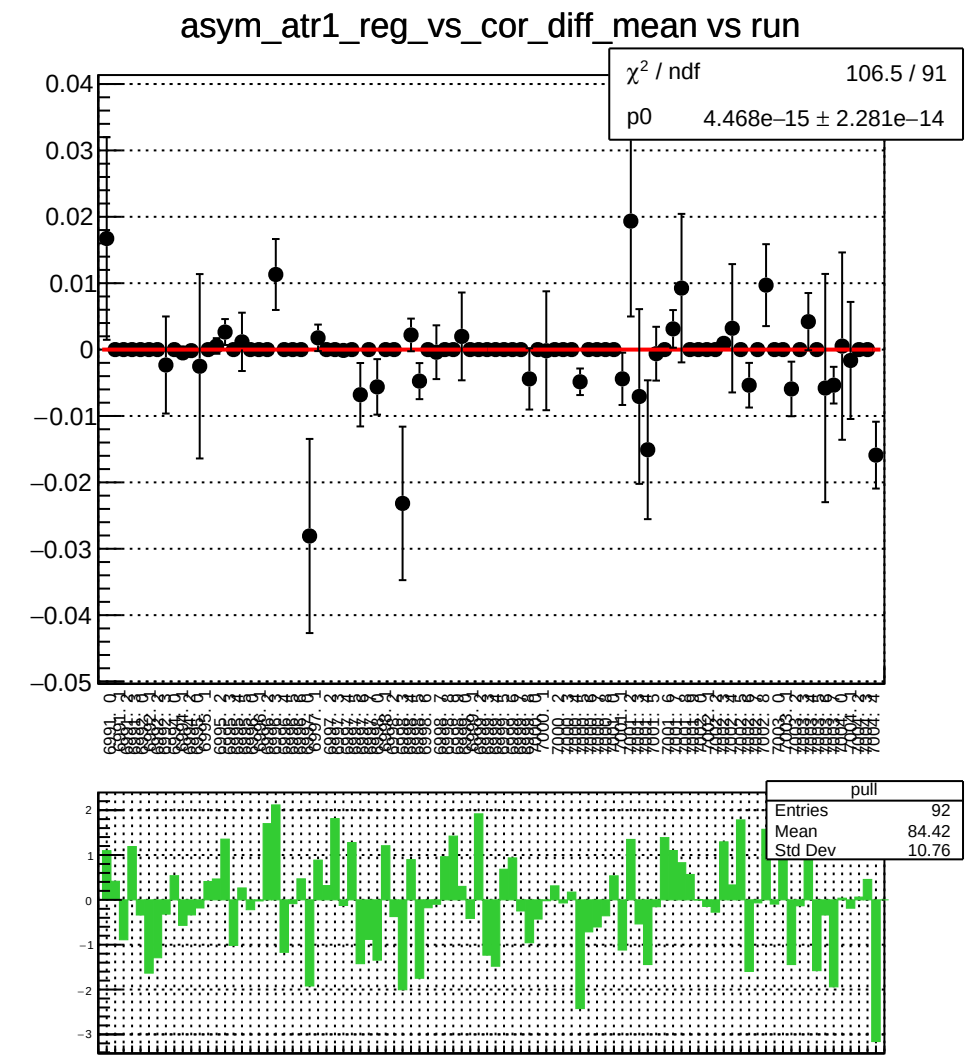

pull1D
Entries 92
Mean −0.0003148
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

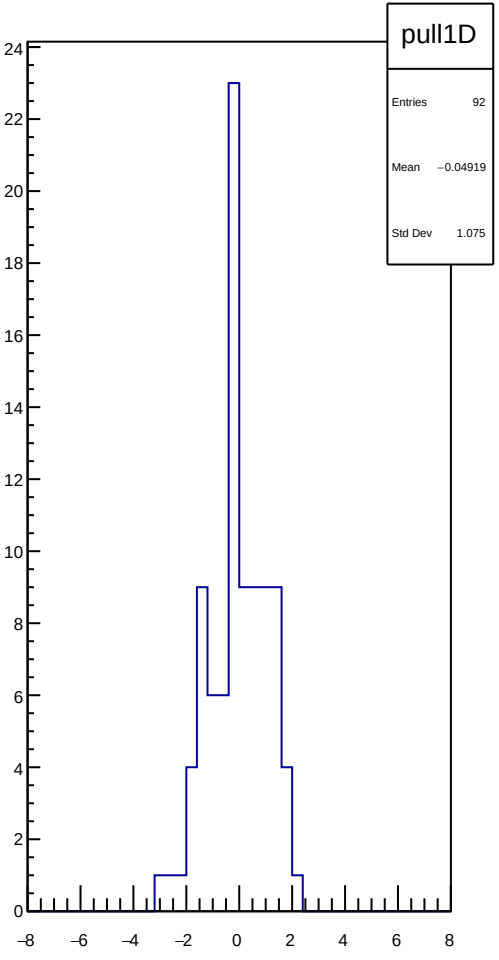

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 3138 / 91
p0 714.1 ± 0.538
820
800
780
760
740
720
700
680
660
640

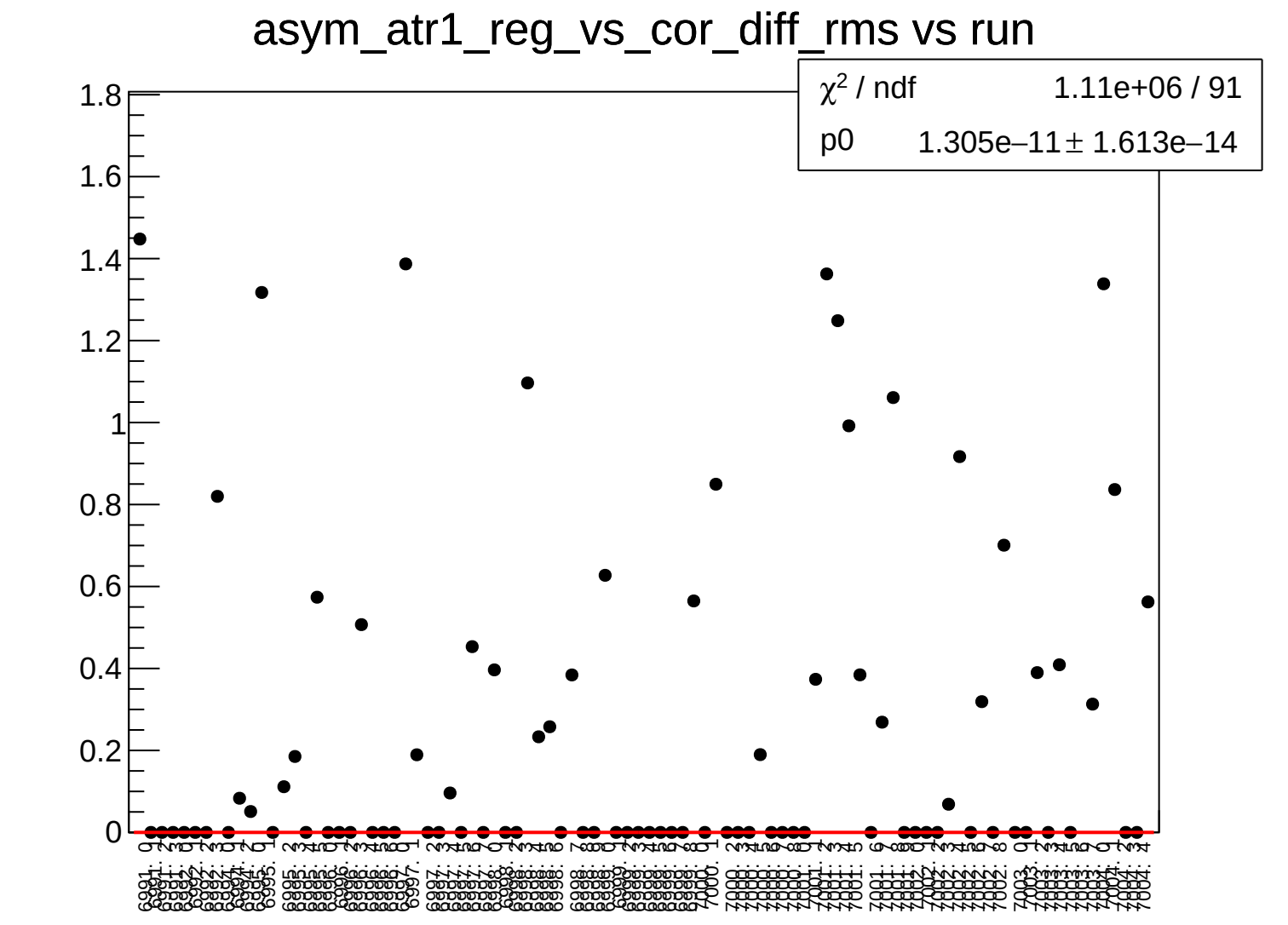

asym_atr1_mean vs run
×10^3
χ² / ndf 71.24 / 91
p0 −1709 ± 3074
100
50
0
−50
−100
pull
Entries 92
Mean −1.004e+04
Std Dev 0
2
1
0
−1
−2
−3

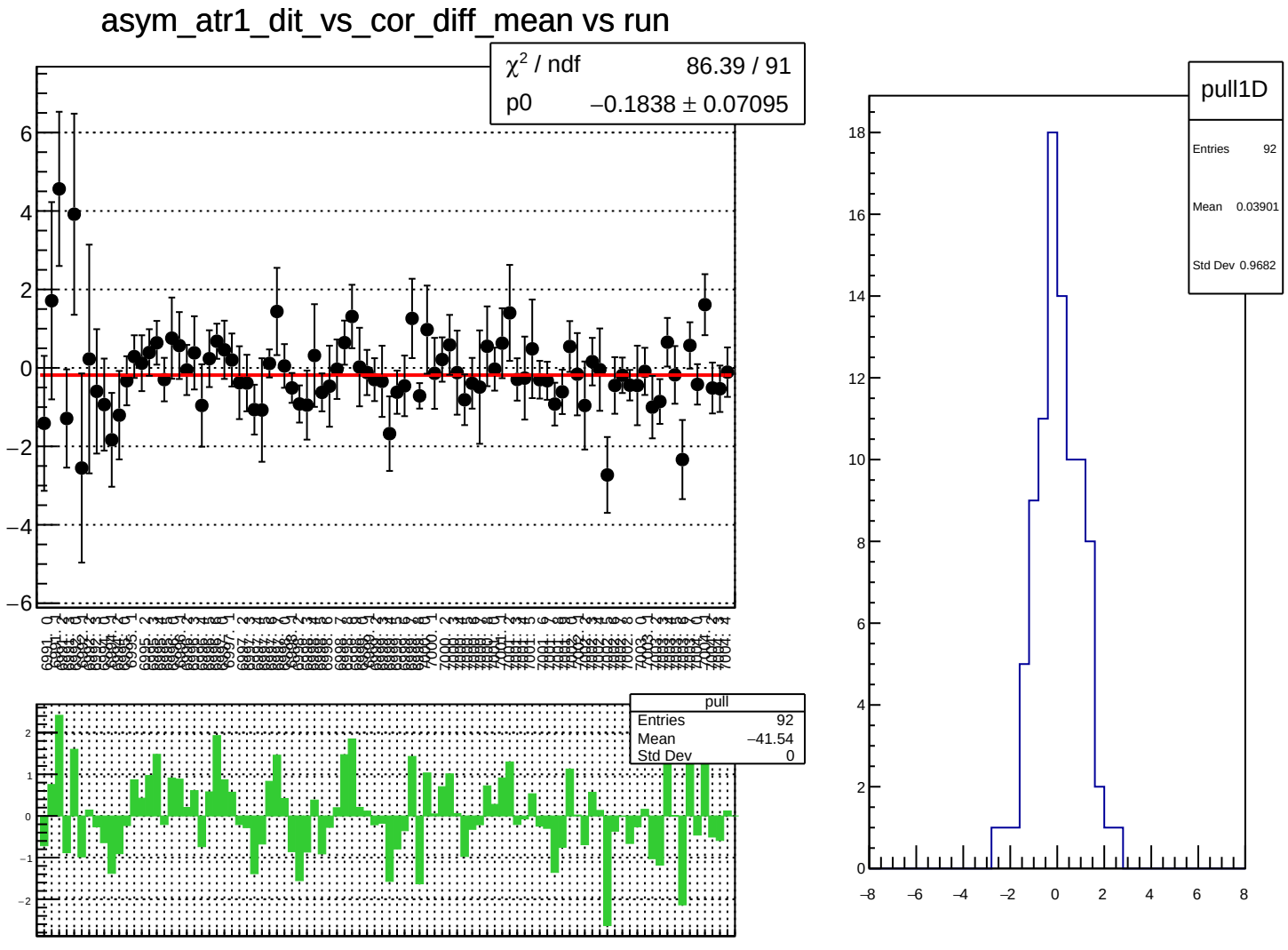

pull1D
Entries 92
Mean −0.0004391
Std Dev 0.88
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

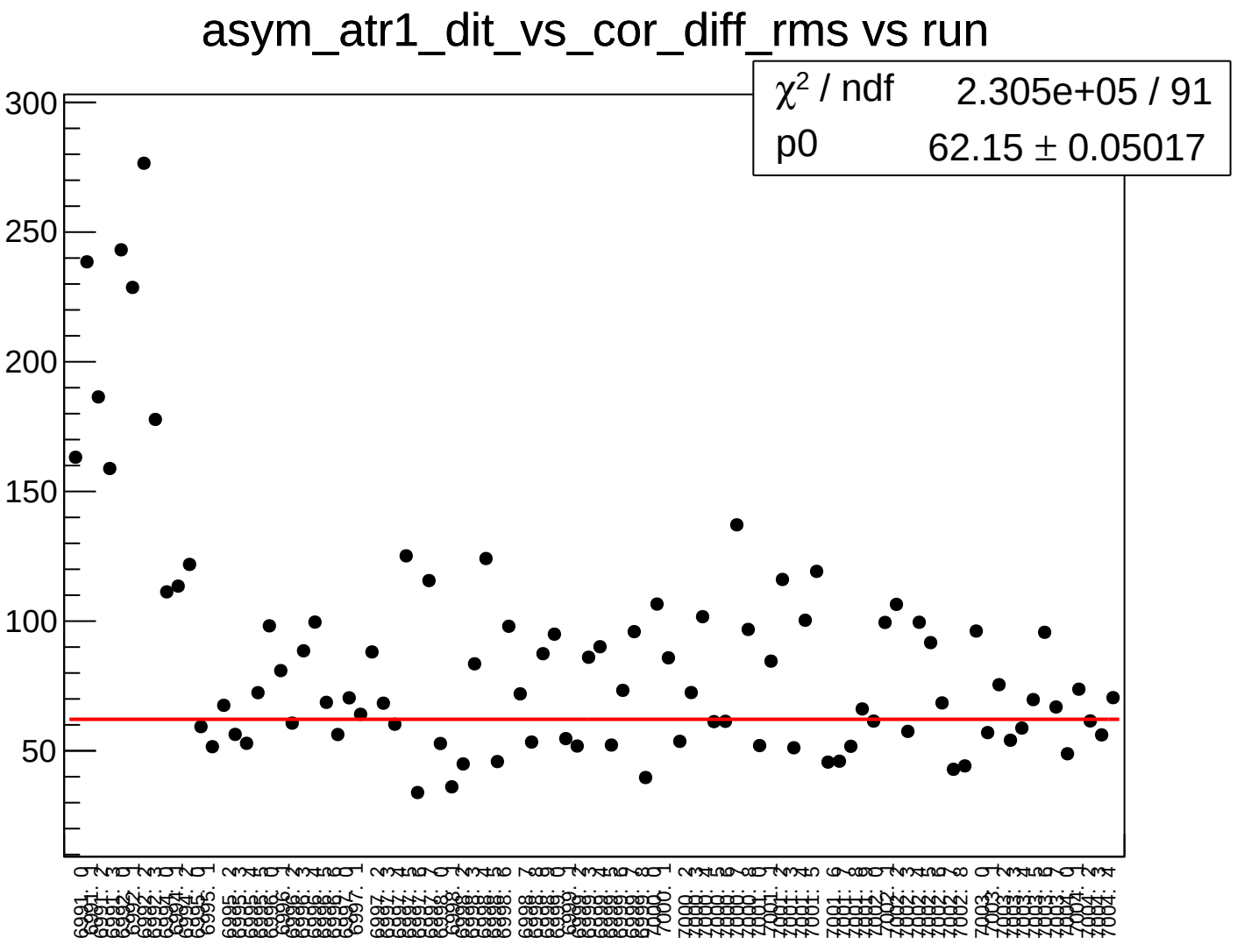

asym_atr1_rms vs run
χ² / ndf 250 / 91
p0 2888 ± 2.174
3100
3050
3000
2950
2900
2850
2800

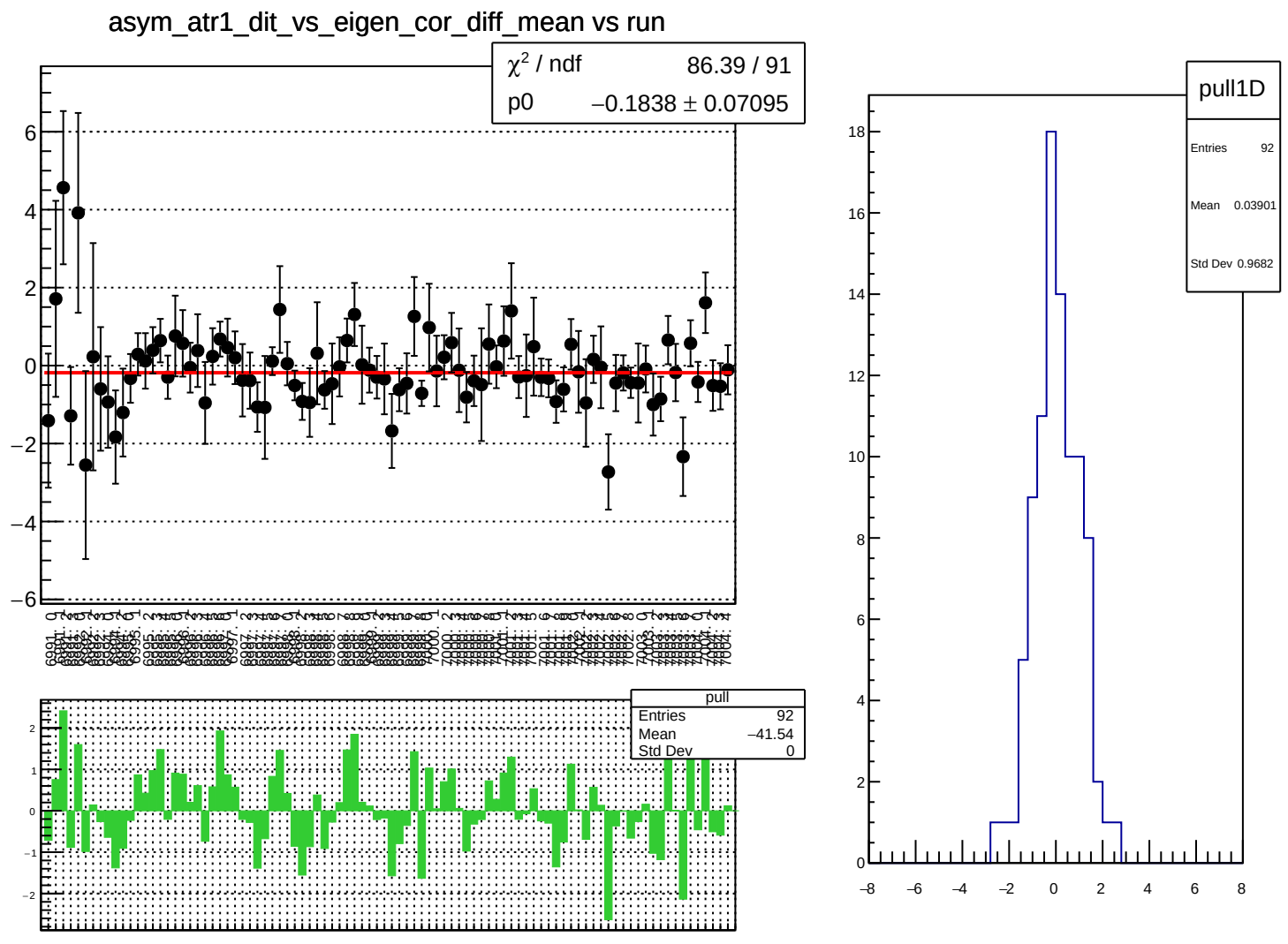

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 91
p0 4.468e−15 ± 2.281e−14
pull
Entries 92
Mean 84.42
Std Dev 10.76

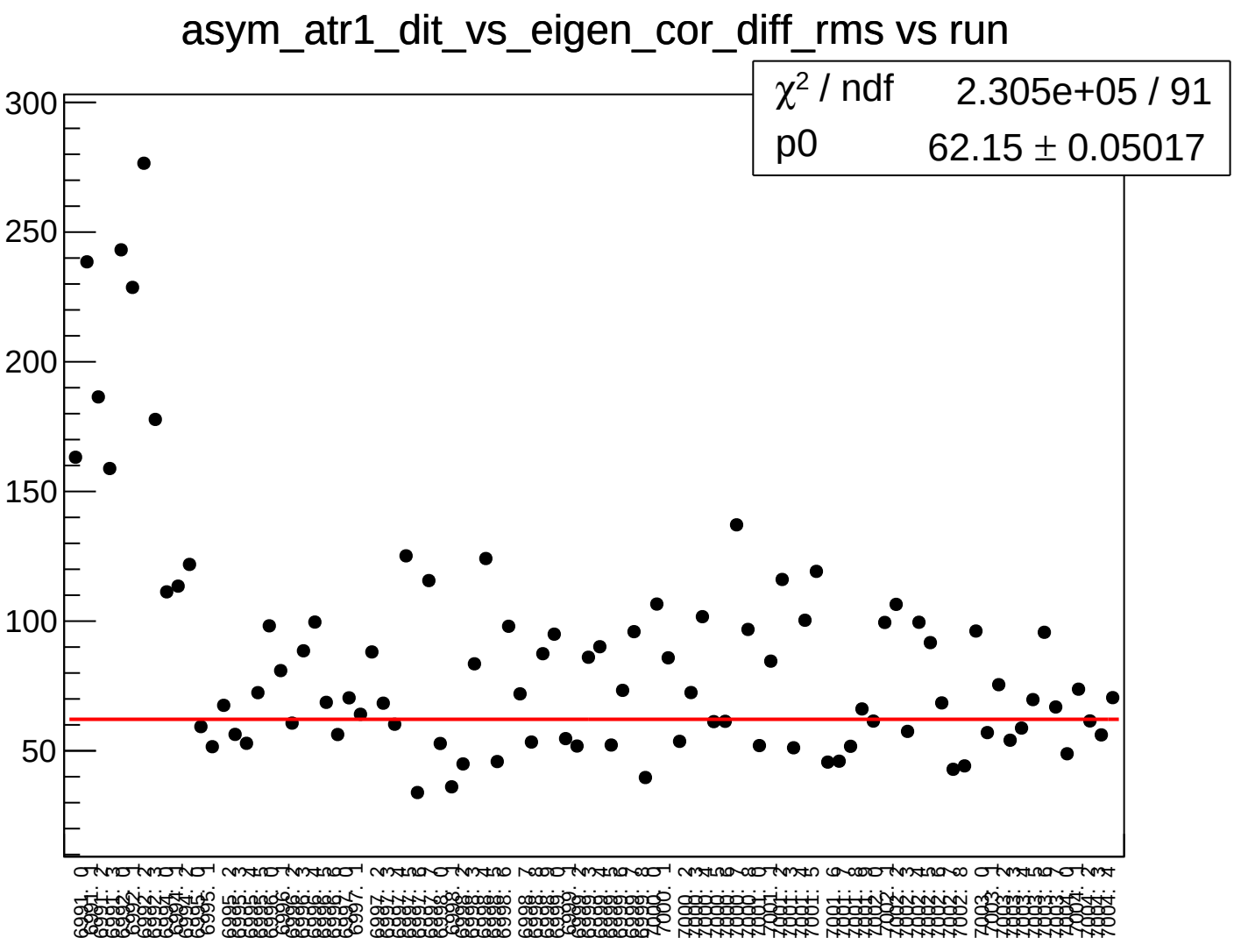

pull1D
Entries 92
Mean −0.04919
Std Dev 1.075

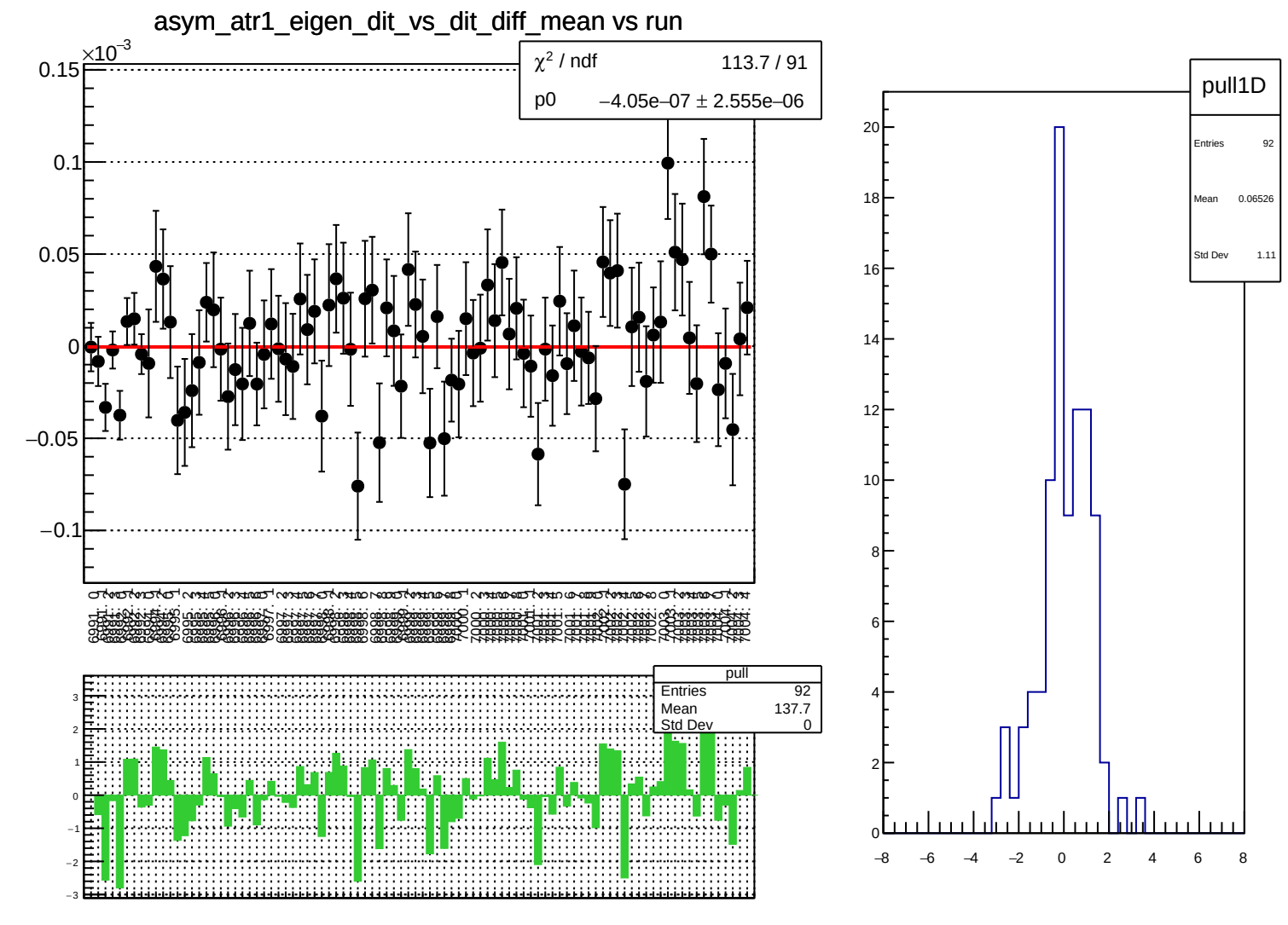

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.11e+06 / 91
p0 1.305e−11 ± 1.613e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

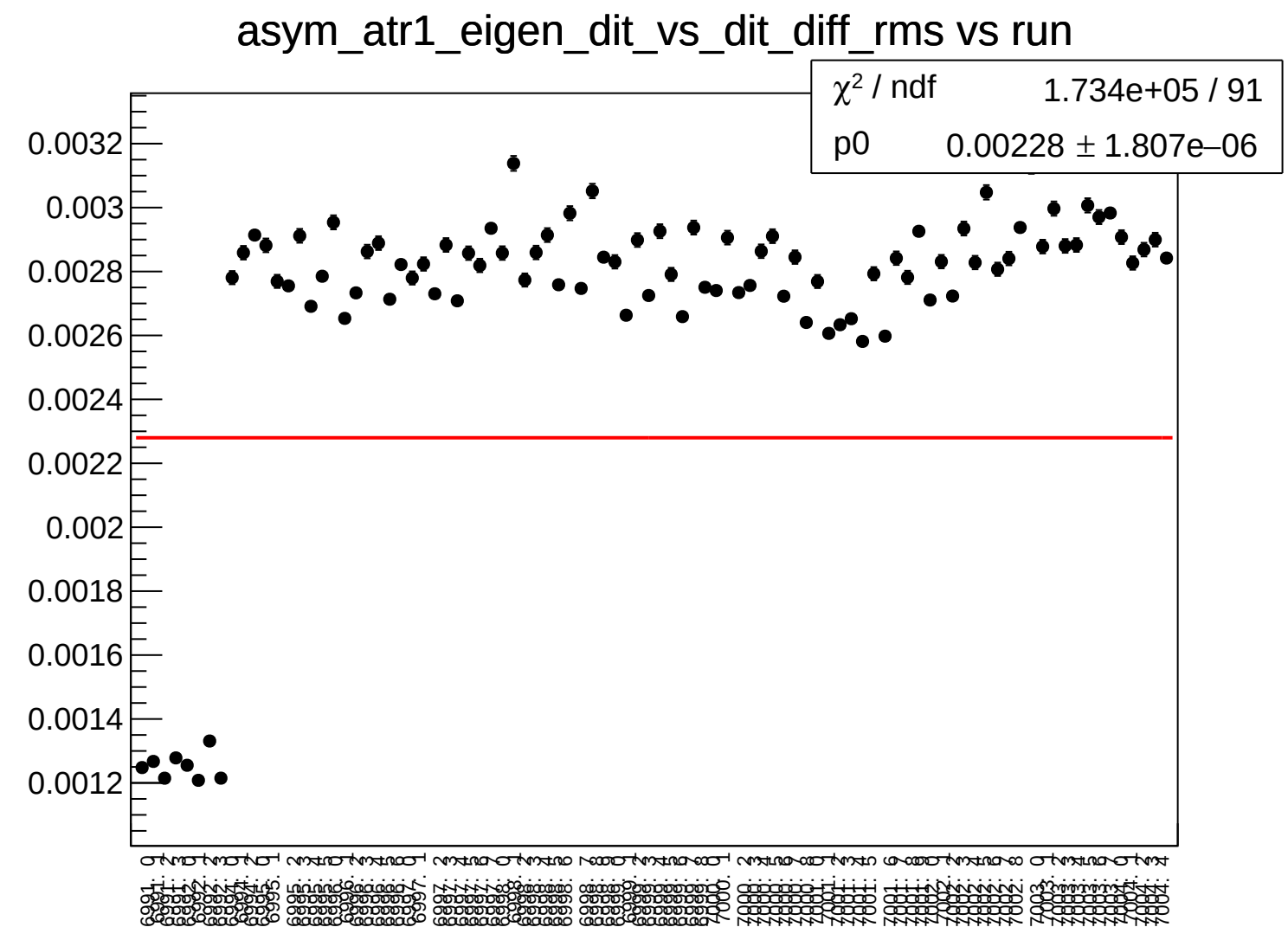

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 86.39 / 91
p0 −0.1838 ± 0.07095
pull
Entries 92
Mean −41.54
Std Dev 0
pull1D
Entries 92
Mean 0.03901
Std Dev 0.9682

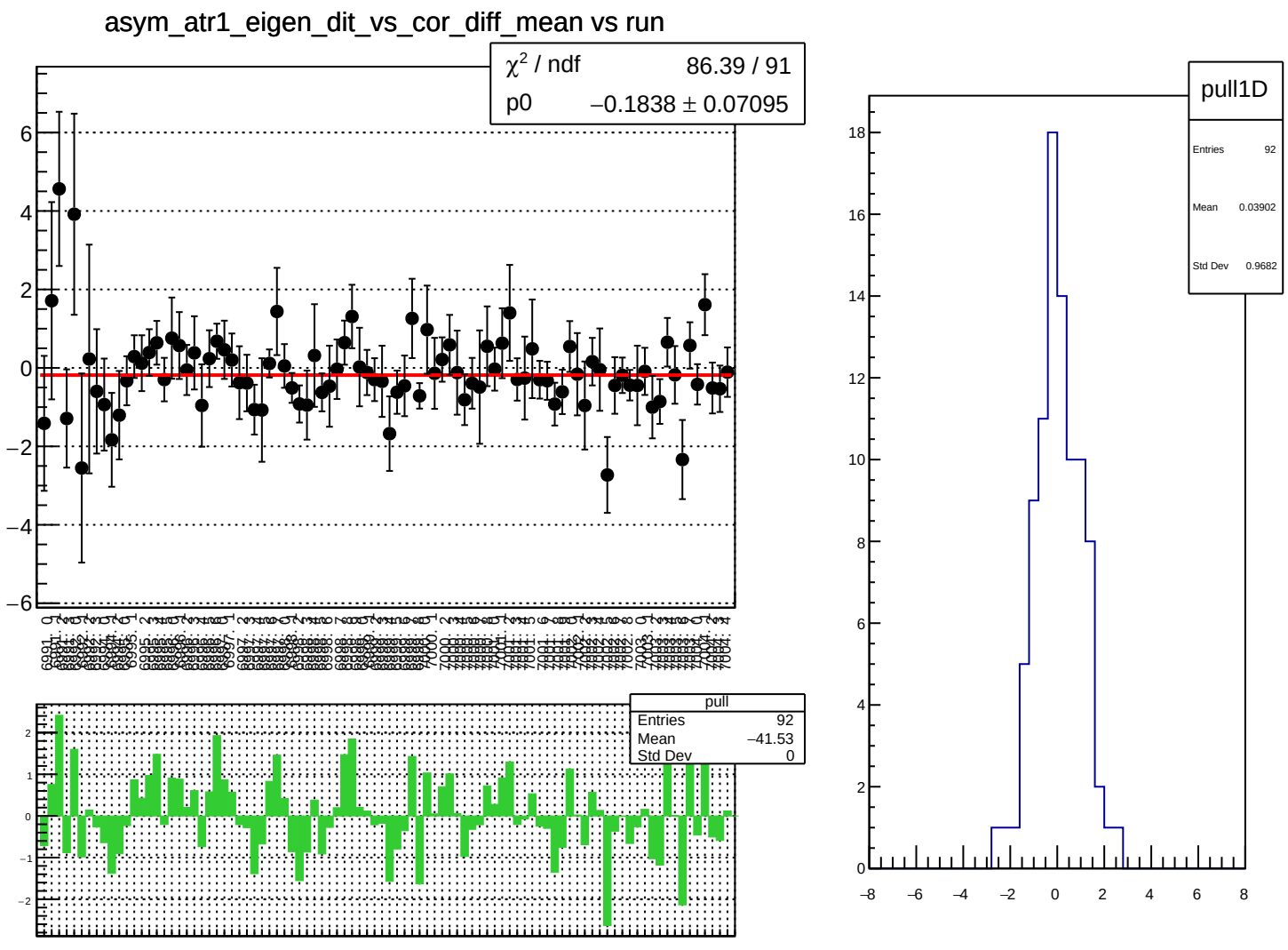

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.305e+05 / 91
p0 62.15 ± 0.05017
300
250
200
150
100
50

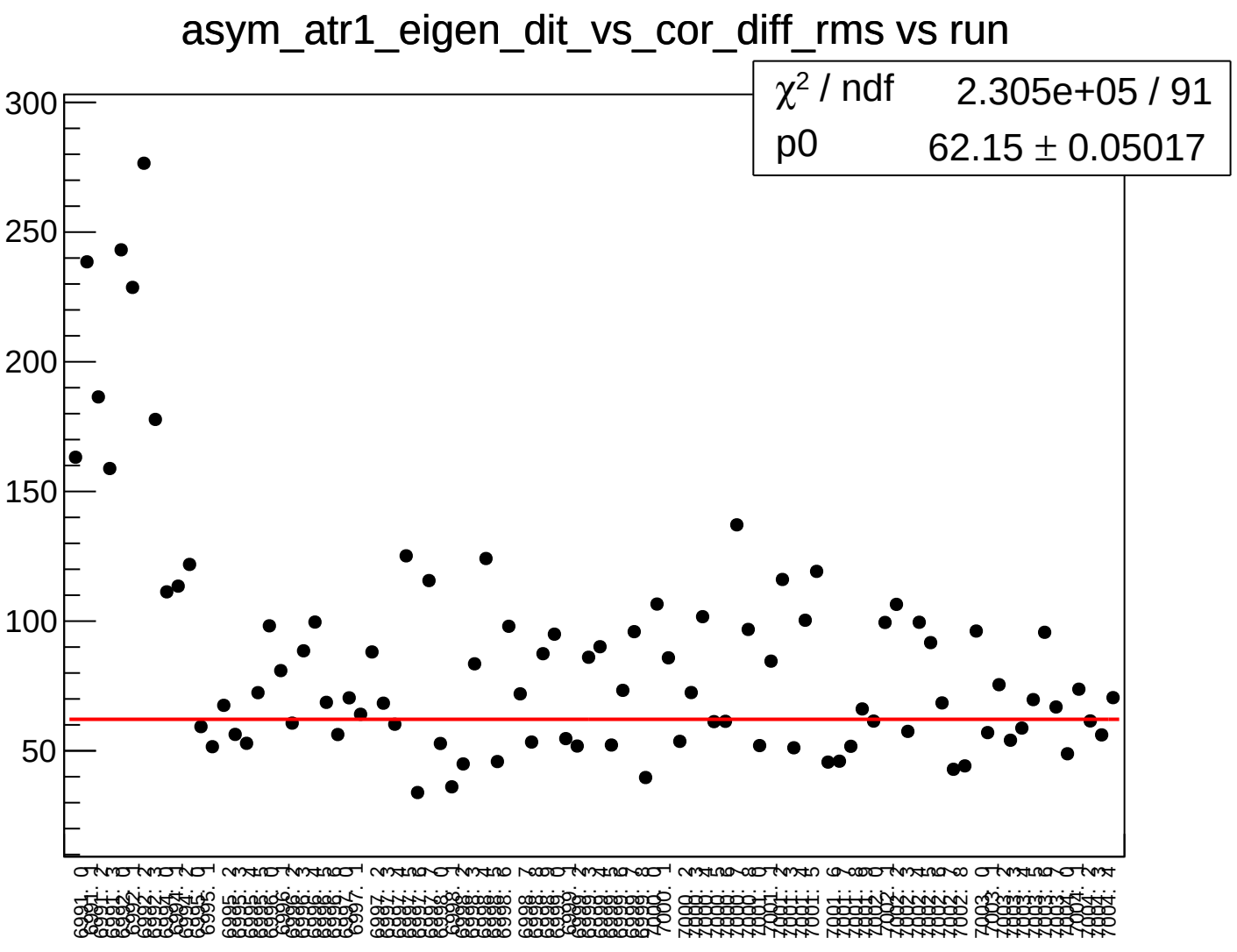

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.39 / 91
p0 −0.1838 ± 0.07095
pull
Entries 92
Mean −41.54
Std Dev 0
pull1D
Entries 92
Mean 0.03901
Std Dev 0.9682

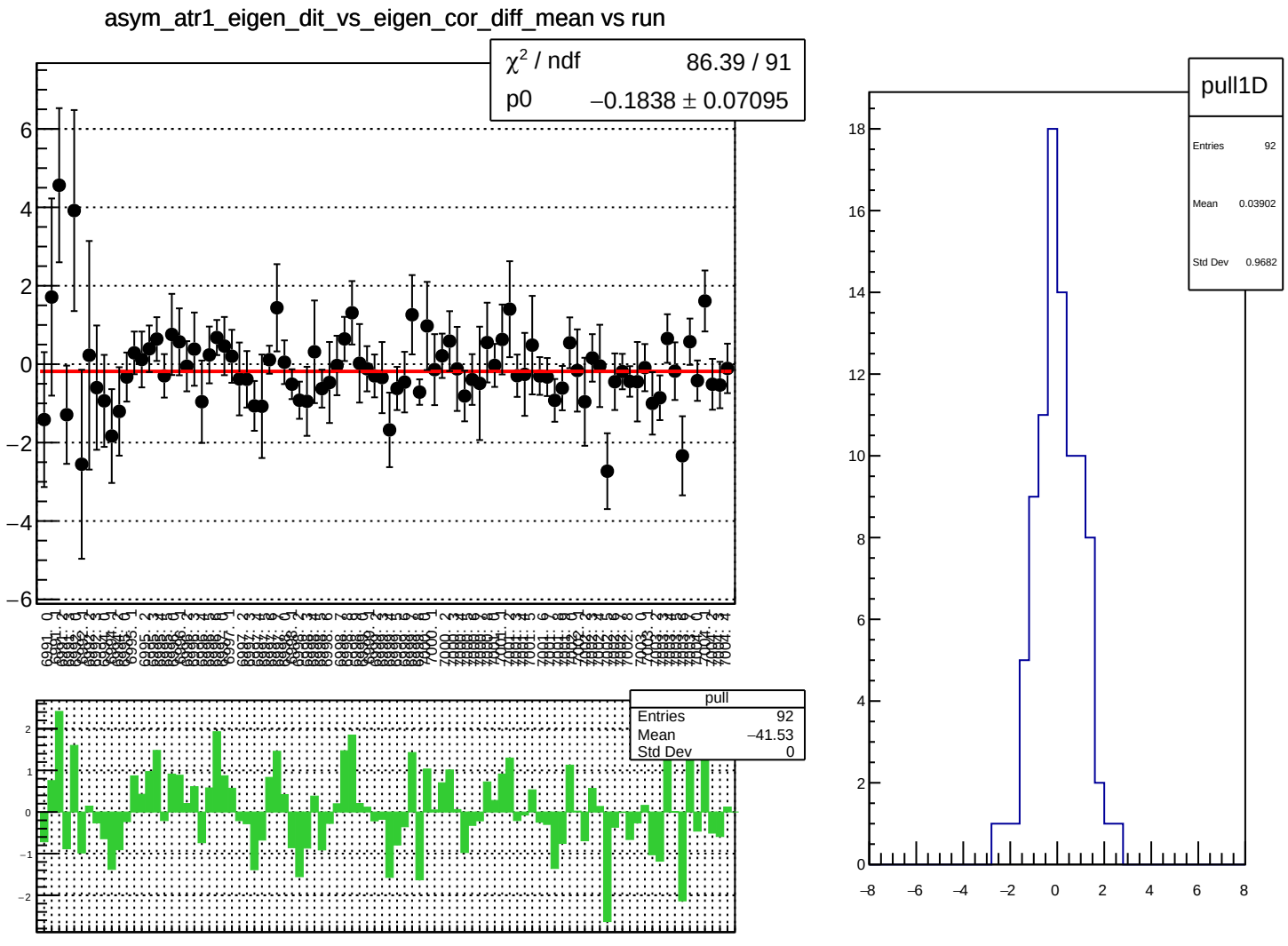

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.305e+05 / 91
p0 62.15 ± 0.05017
300
250
200
150
100
50

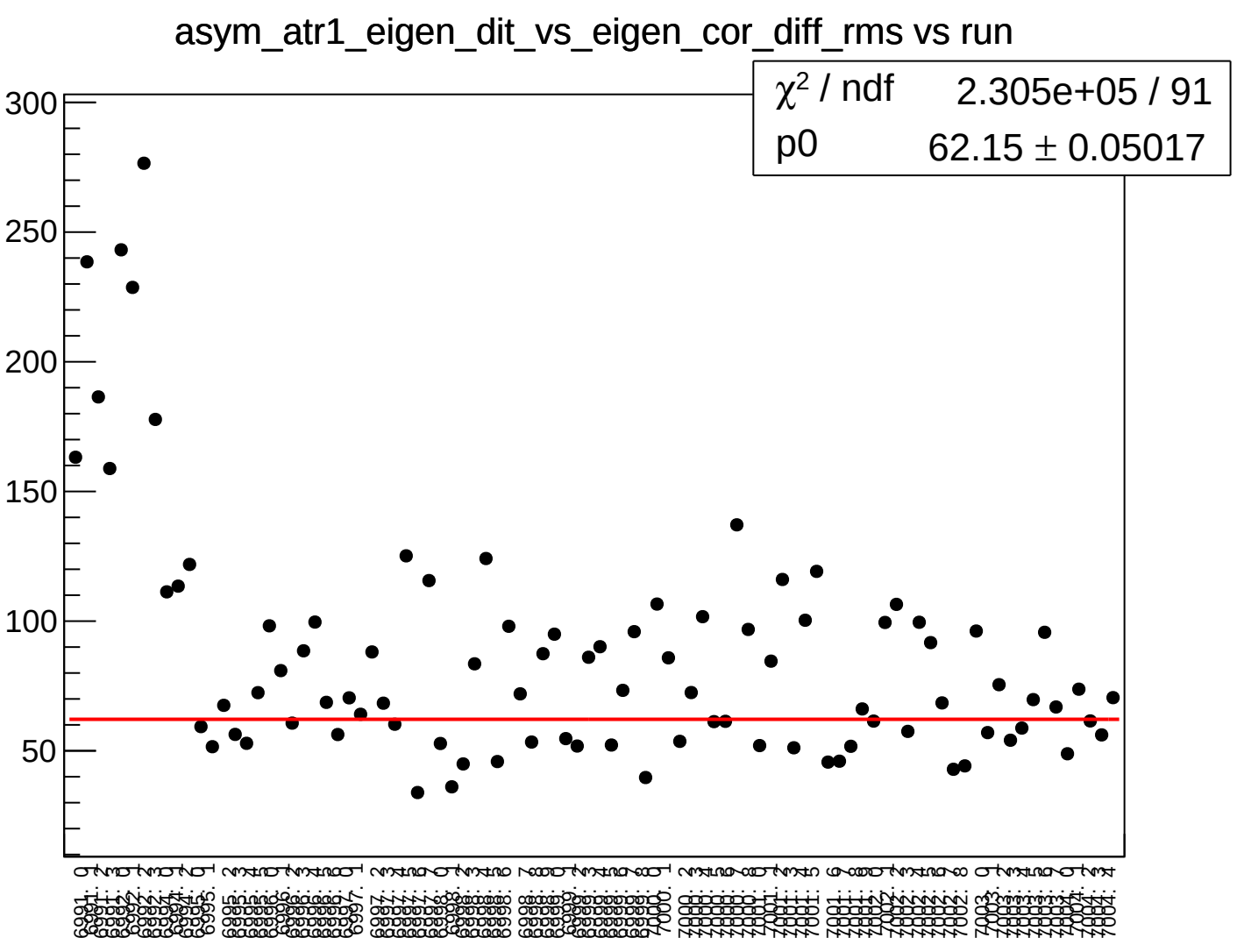

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.7 / 91
p0 −4.05e−07 ± 2.555e−06
pull
Entries 92
Mean 137.7
Std Dev 0
pull1D
Entries 92
Mean 0.06526
Std Dev 1.11

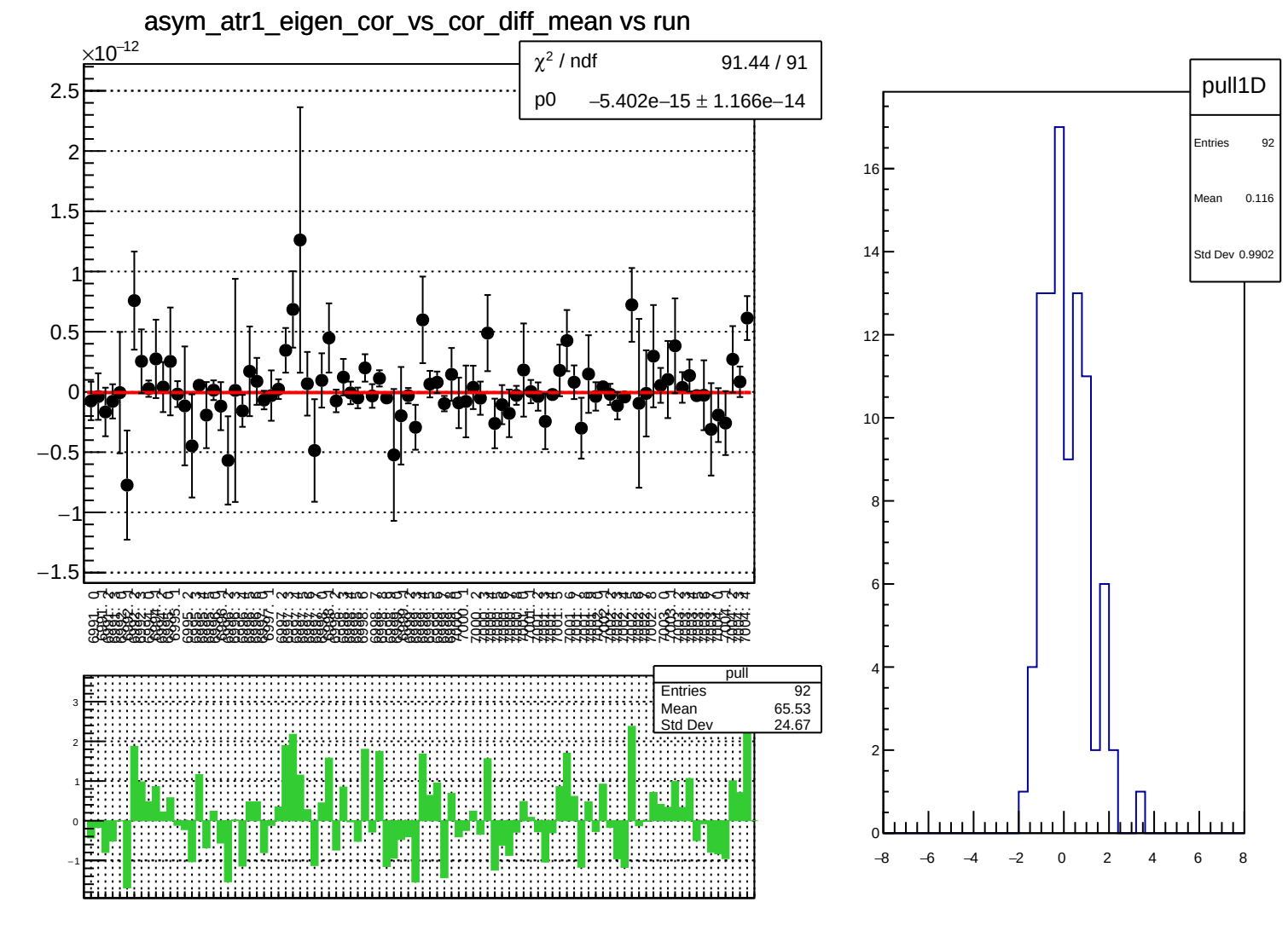

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.734e+05 / 91
p0 0.00228 ± 1.807e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

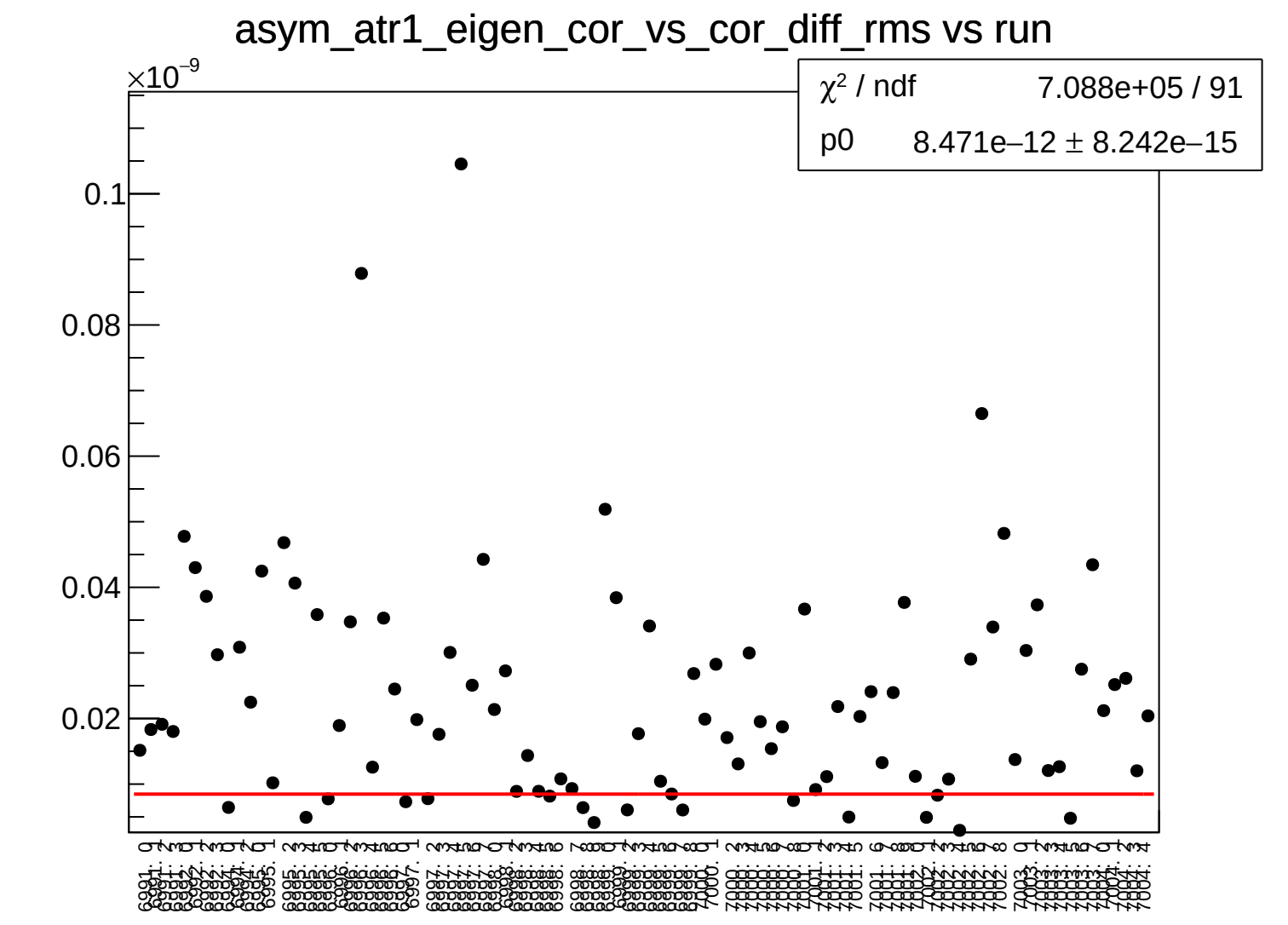

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.39 / 91
p0 −0.1838 ± 0.07095
pull
Entries 92
Mean −41.53
Std Dev 0
pull1D
Entries 92
Mean 0.03902
Std Dev 0.9682

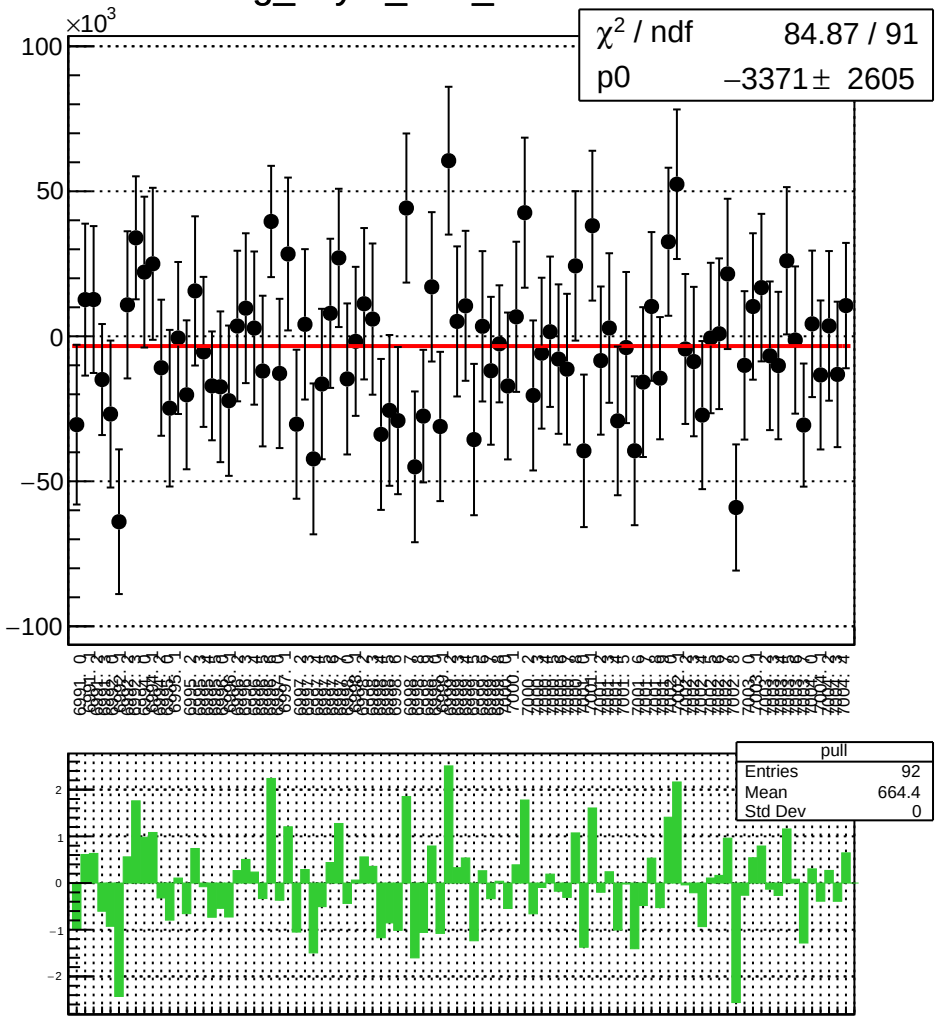

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.305e+05 / 91
p0 62.15 ± 0.05017
300
250
200
150
100
50

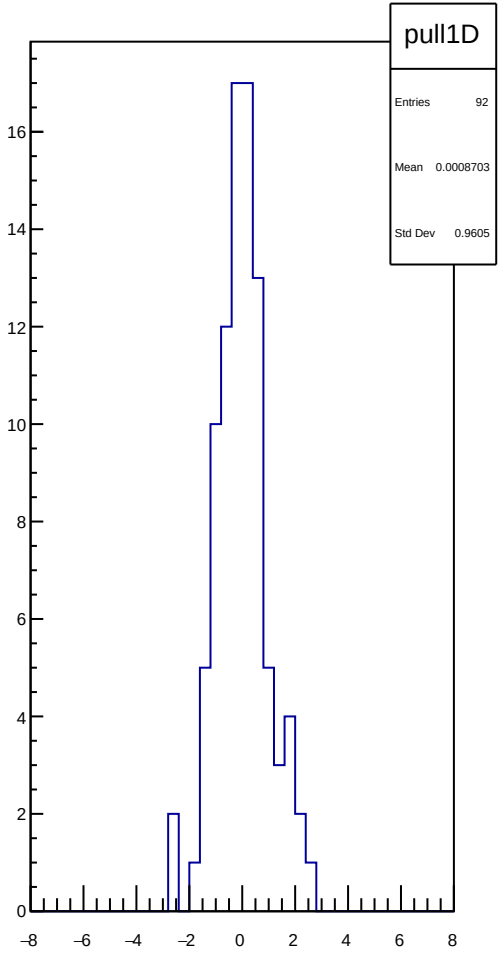

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.39 / 91
p0 −0.1838 ± 0.07095
pull
Entries 92
Mean −41.53
Std Dev 0
pull1D
Entries 92
Mean 0.03902
Std Dev 0.9682

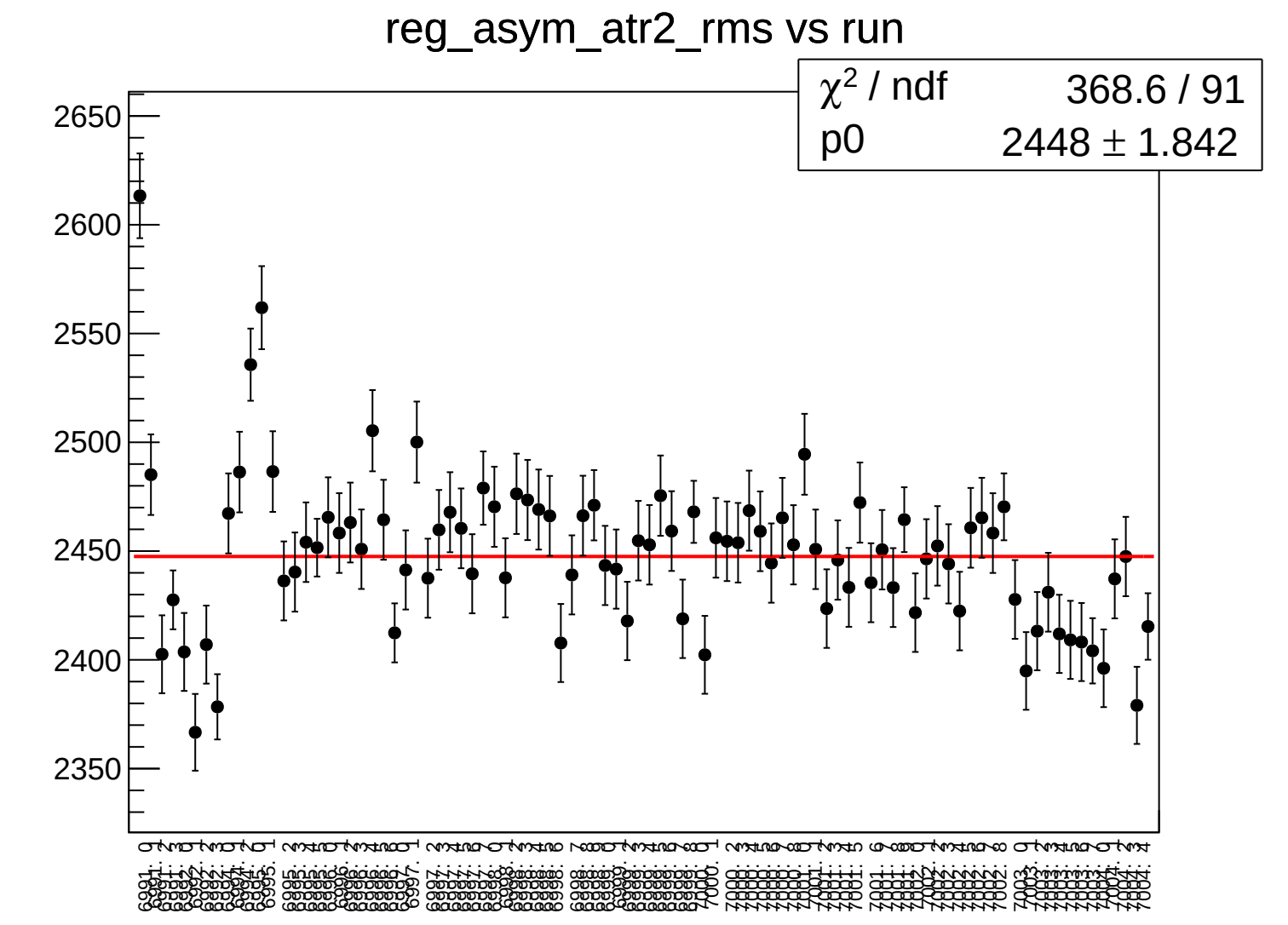

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.305e+05 / 91
p0 62.15 ± 0.05017
300
250
200
150
100
50

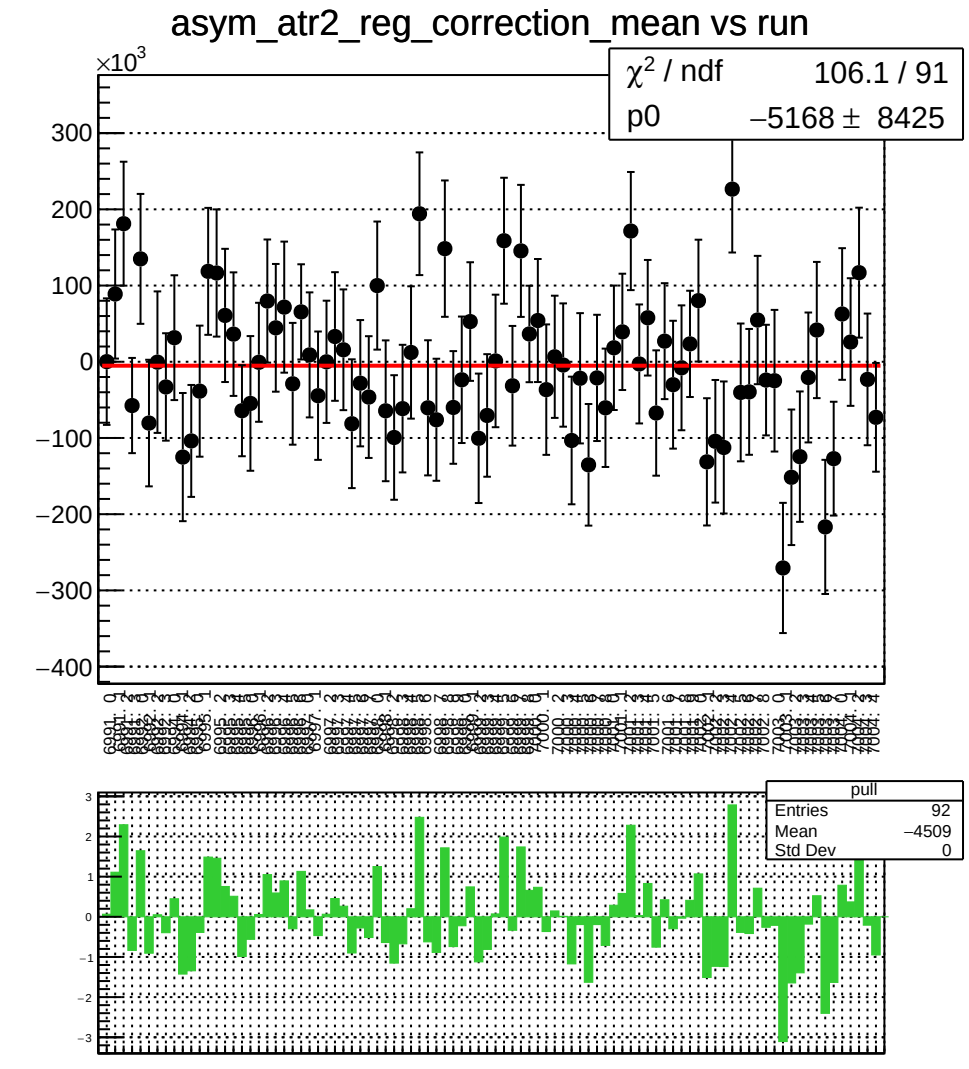

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.44 / 91
p0 −5.402e−15 ± 1.166e−14
pull
Entries 92
Mean 65.53
Std Dev 24.67
pull1D
Entries 92
Mean 0.116
Std Dev 0.9902

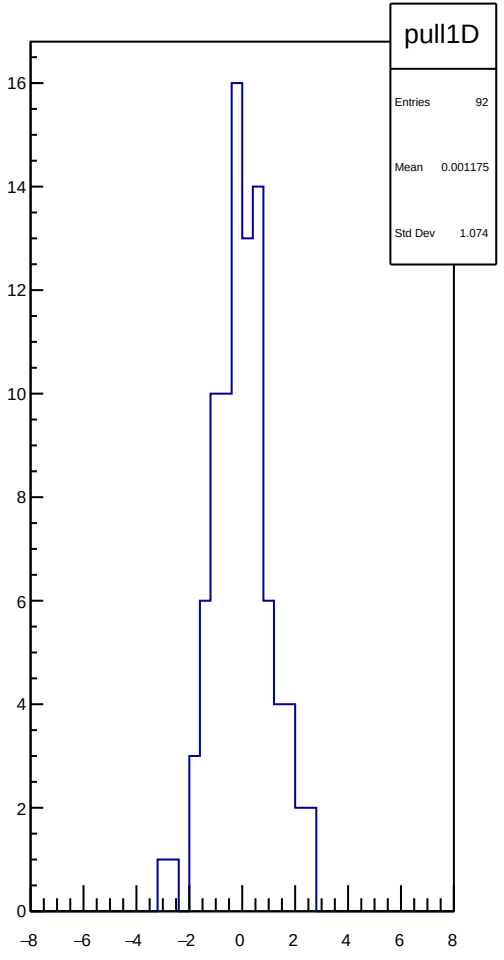

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.088e+05 / 91
p0 8.471e−12 ± 8.242e−15
0.1
0.08
0.06
0.04
0.02

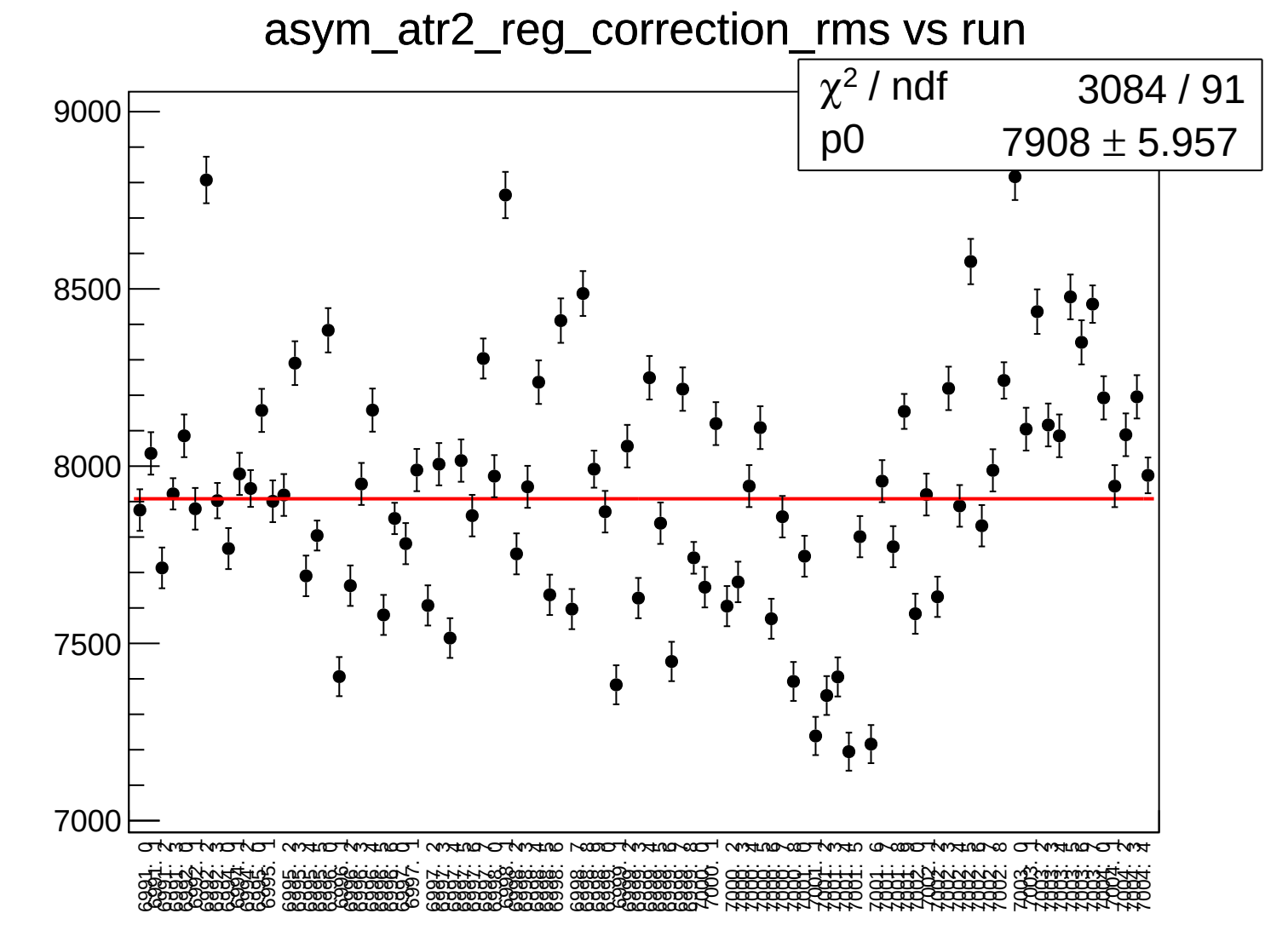

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 84.87 / 91
p0 −3371 ± 2605
pull
Entries 92
Mean 664.4
Std Dev 0

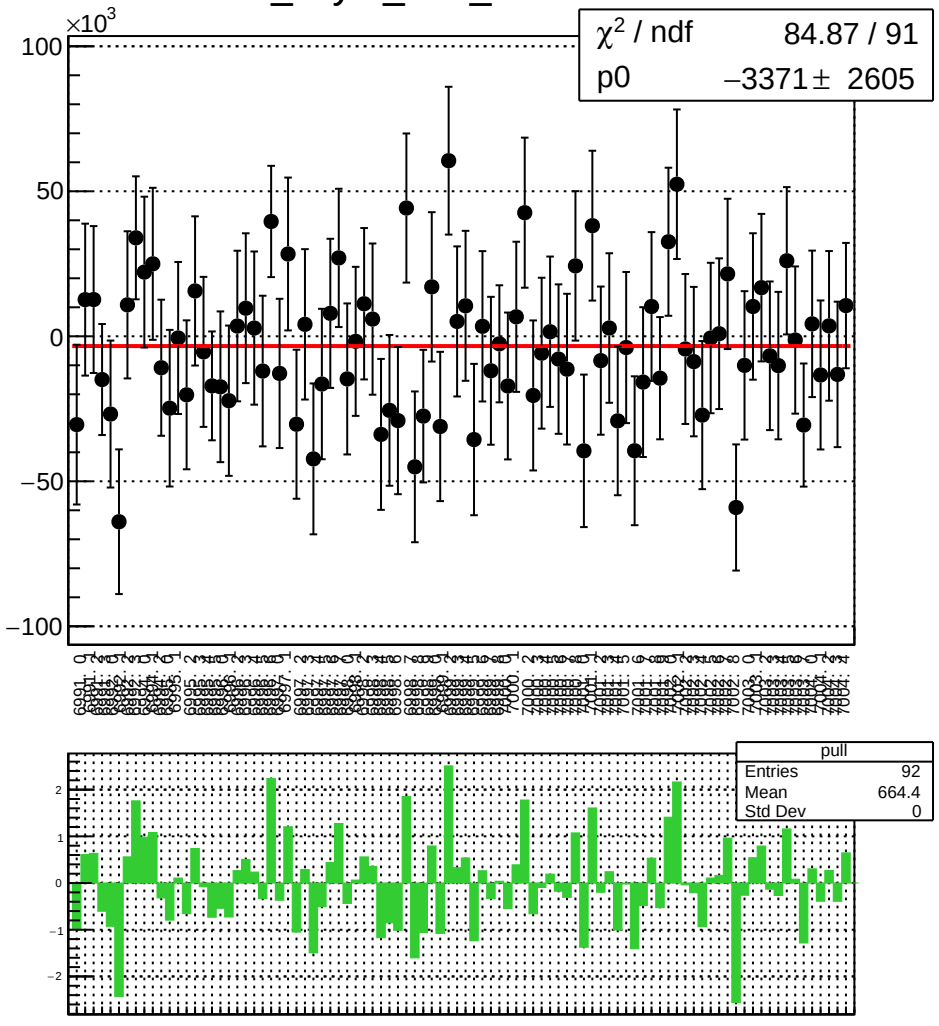

pull1D
Entries 92
Mean 0.0008703
Std Dev 0.9605

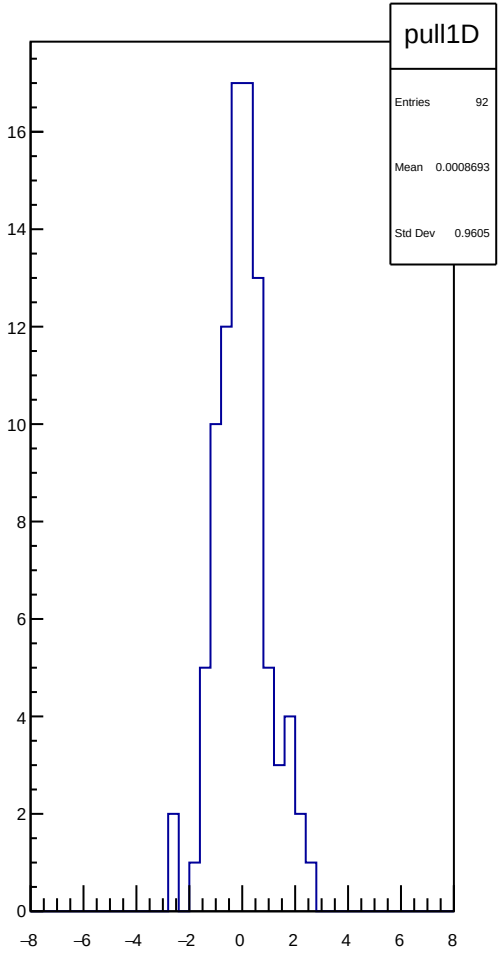

reg_asym_atr2_rms vs run
χ² / ndf 368.6 / 91
p0 2448 ± 1.842
2650
2600
2550
2500
2450
2400
2350

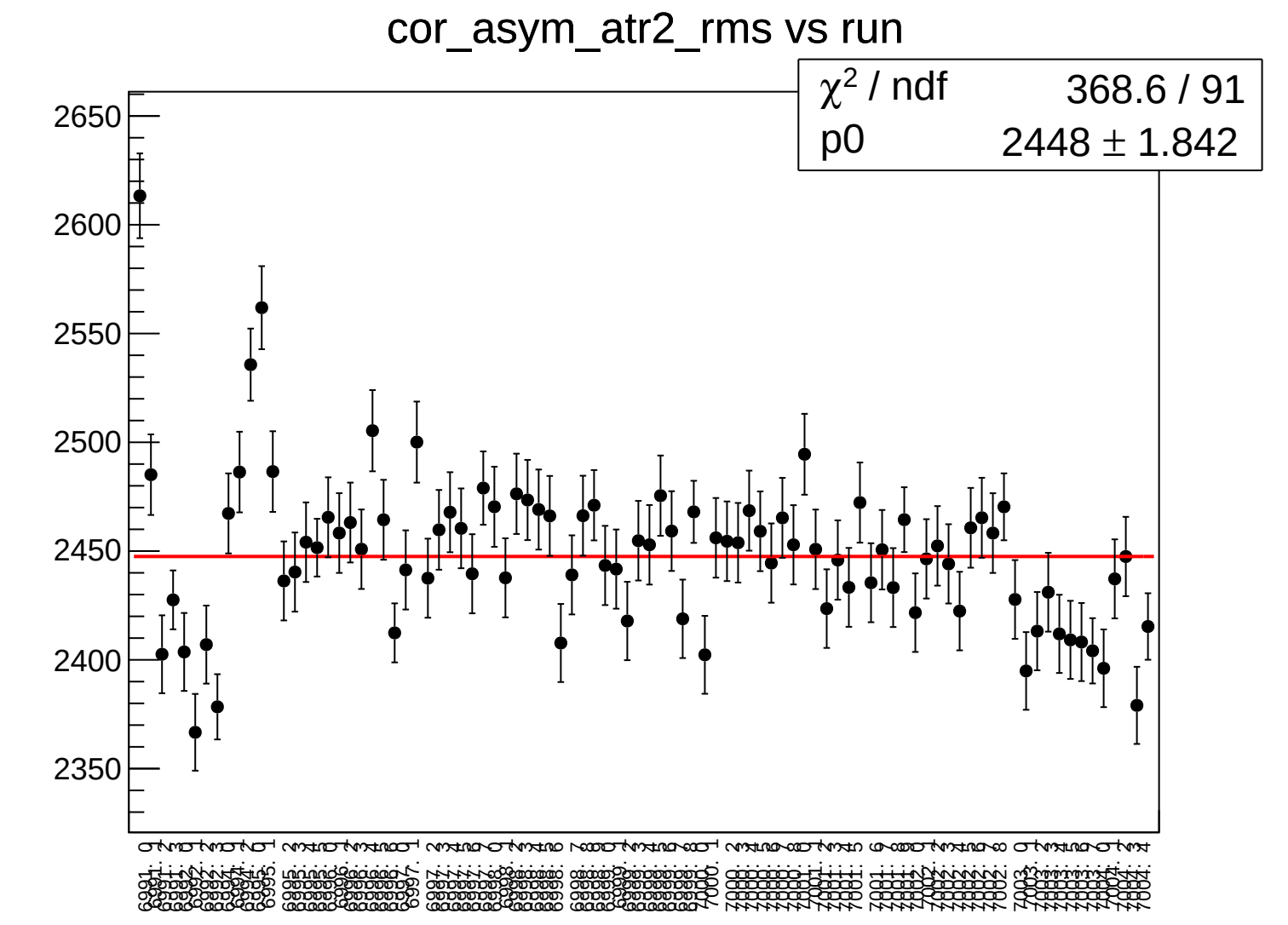

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 106.1 / 91
p0 −5168 ± 8425
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −4509
Std Dev 0
3
2
1
0
−1
−2
−3

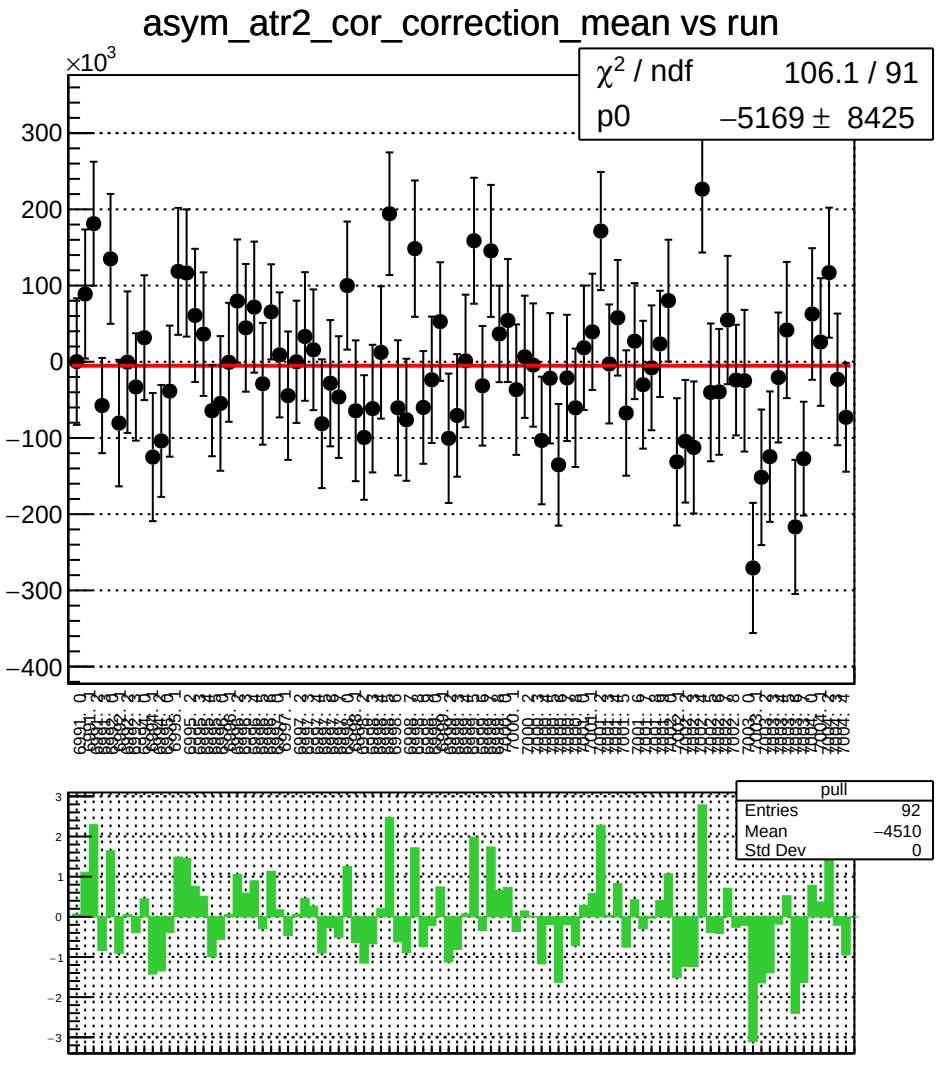

pull1D
Entries 92
Mean 0.001175
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

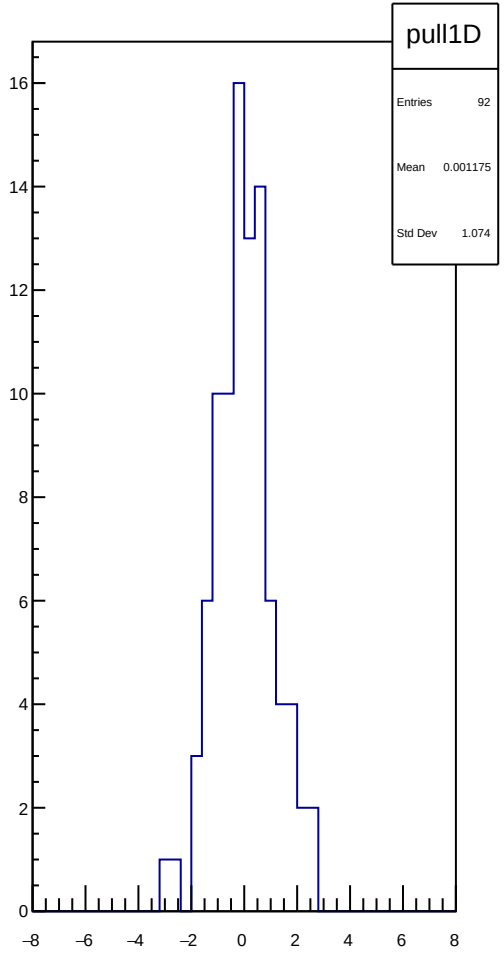

asym_atr2_reg_correction_rms vs run
χ² / ndf 3084 / 91
p0 7908 ± 5.957
9000
8500
8000
7500
7000

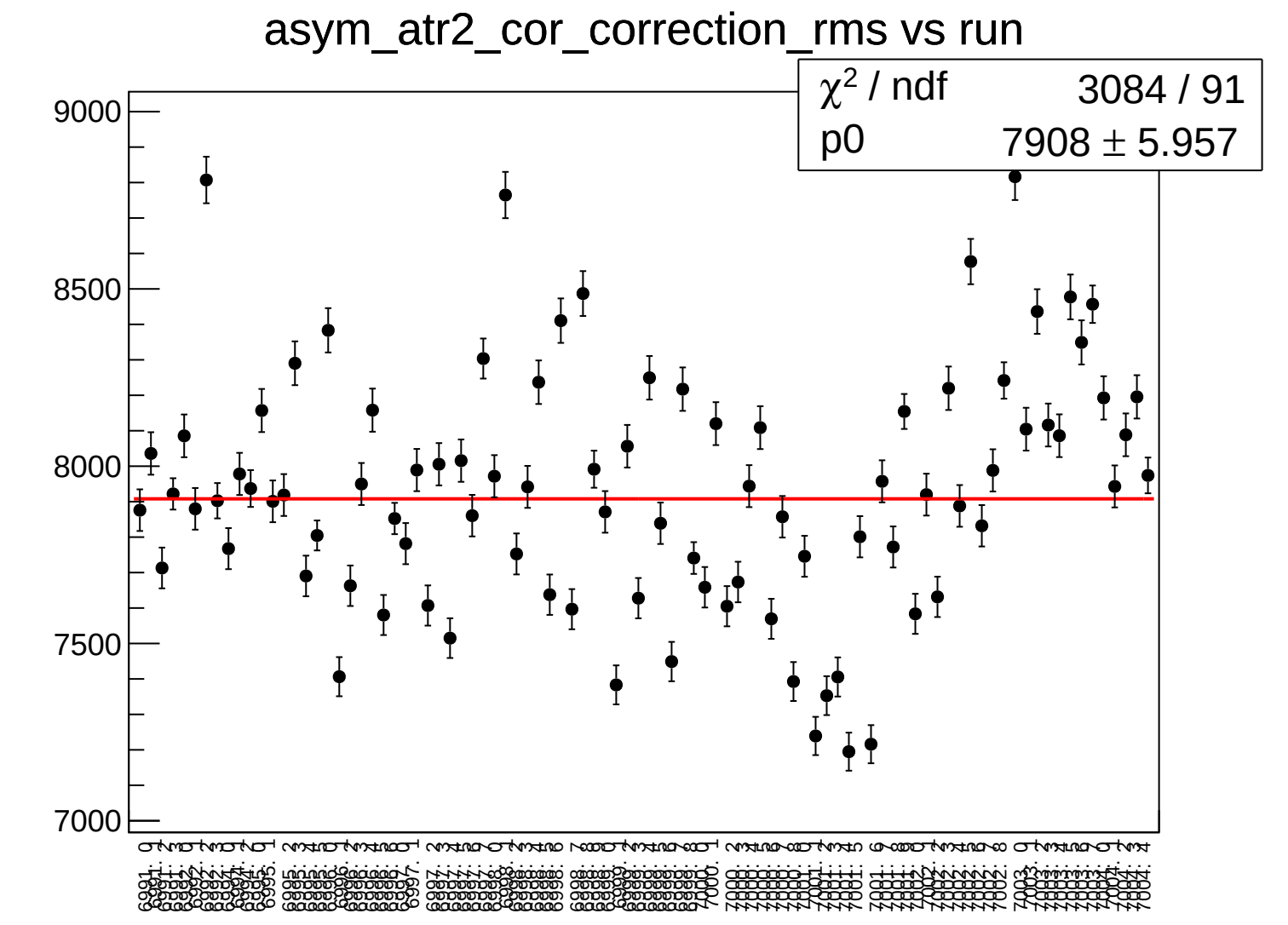

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 84.87 / 91
p0 −3371 ± 2605
pull
Entries 92
Mean 664.4
Std Dev 0

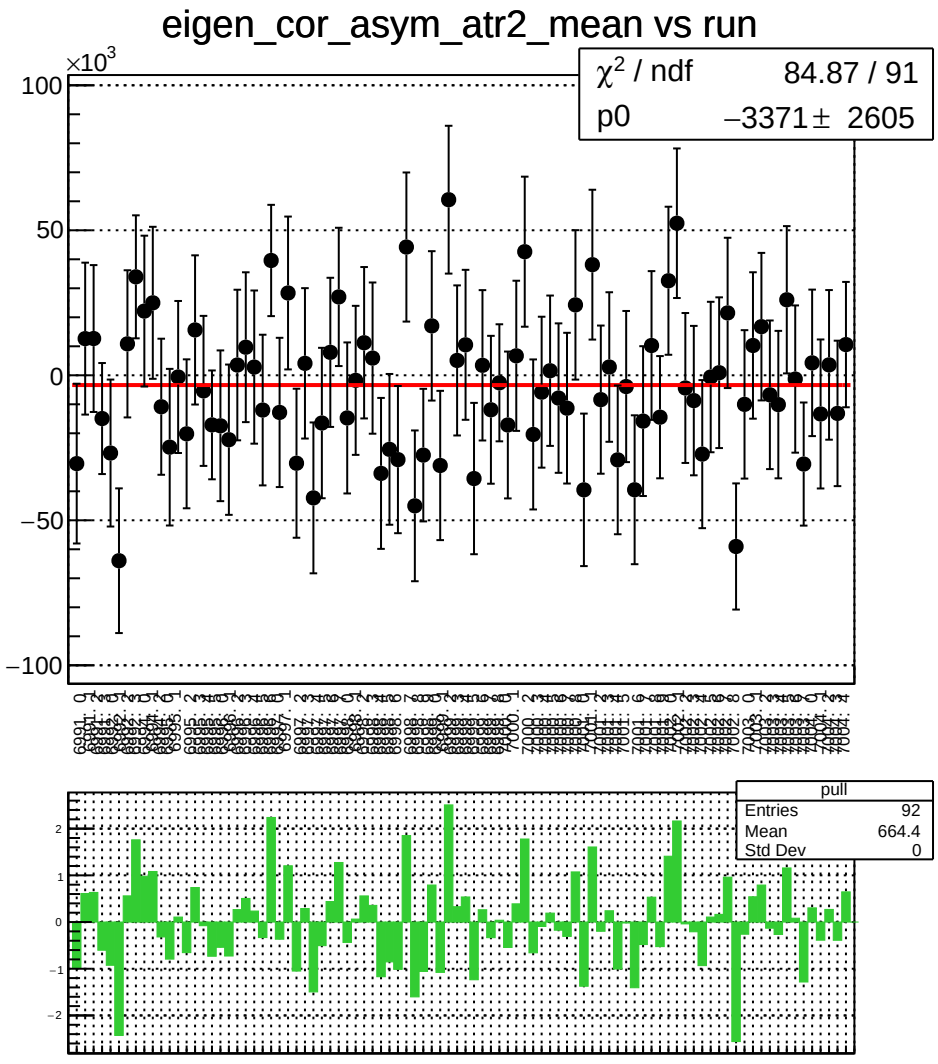

pull1D
Entries 92
Mean 0.0008693
Std Dev 0.9605

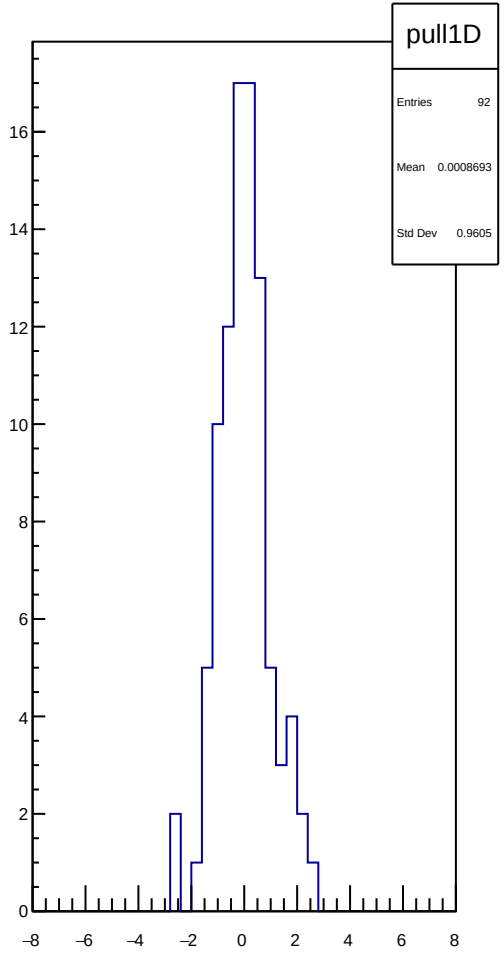

cor_asym_atr2_rms vs run
χ² / ndf 368.6 / 91
p0 2448 ± 1.842
2650
2600
2550
2500
2450
2400
2350

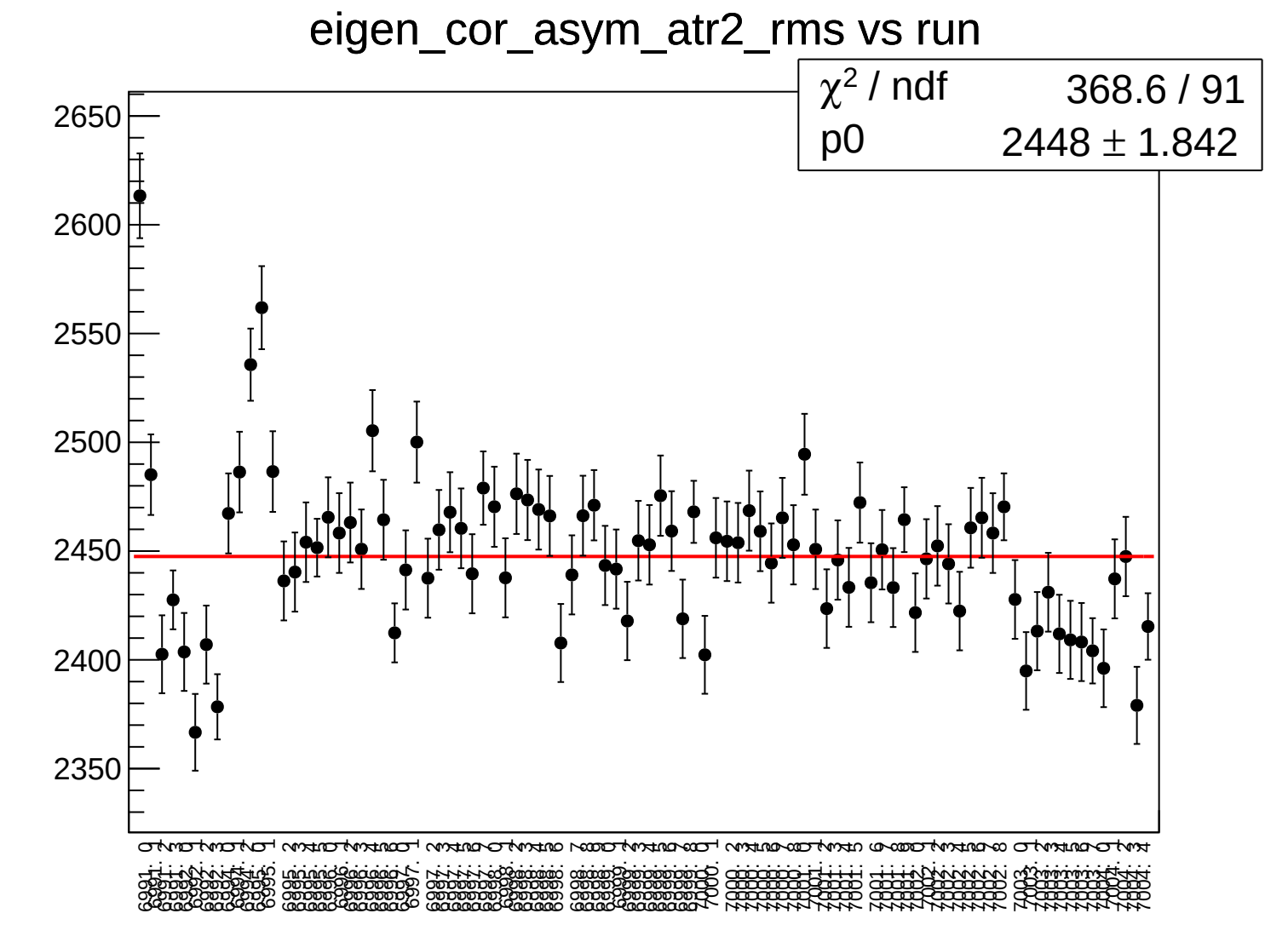

asym_atr2_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.1 / 91
p0 −5169 ± 8425
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −4510
Std Dev 0
3
2
1
0
−1
−2
−3

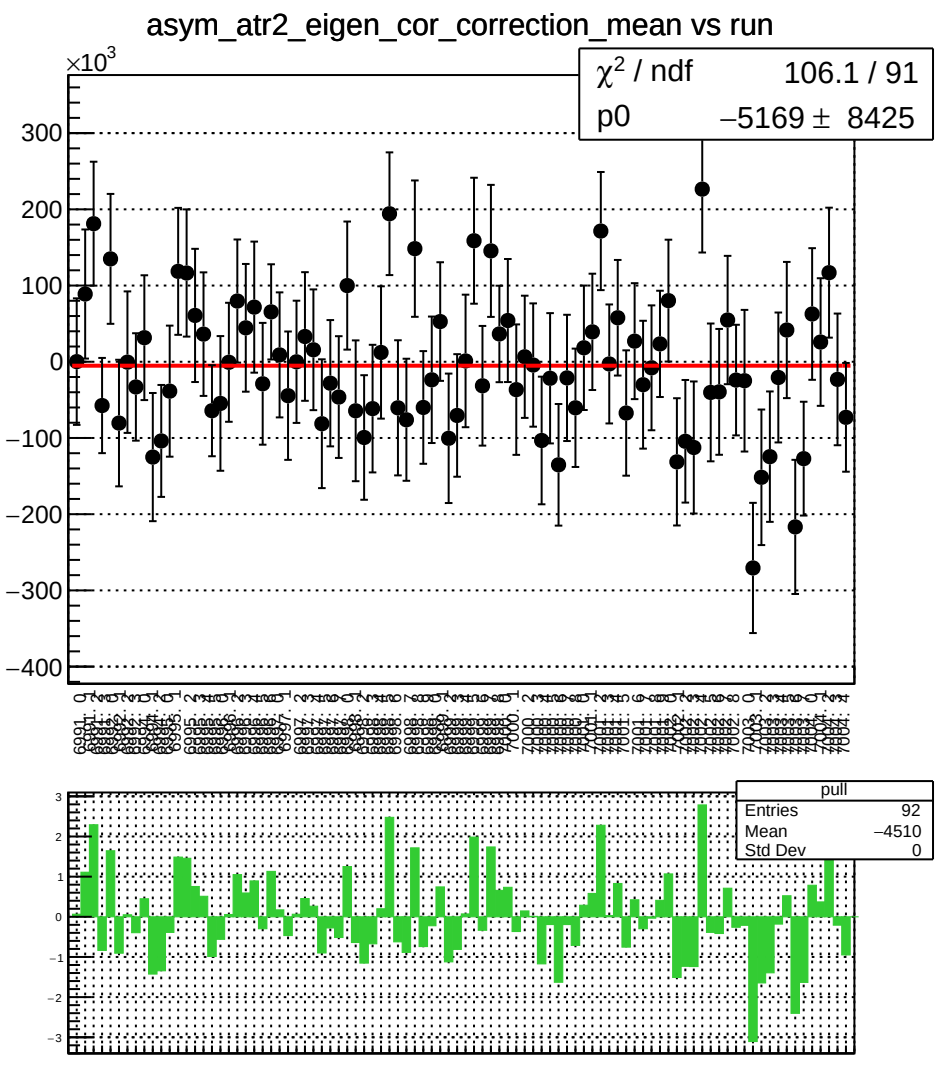

pull1D
Entries 92
Mean 0.001175
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

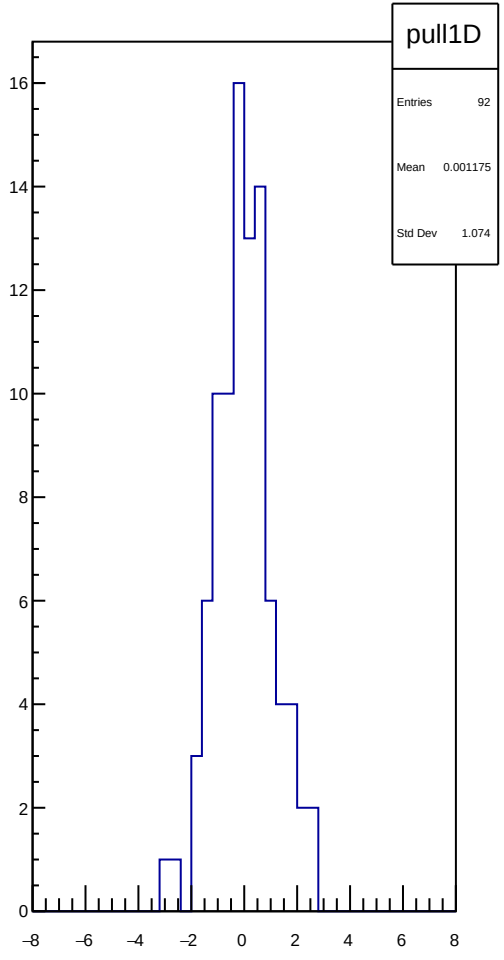

asym_atr2_cor_correction_rms vs run
χ² / ndf 3084 / 91
p0 7908 ± 5.957
9000
8500
8000
7500
7000

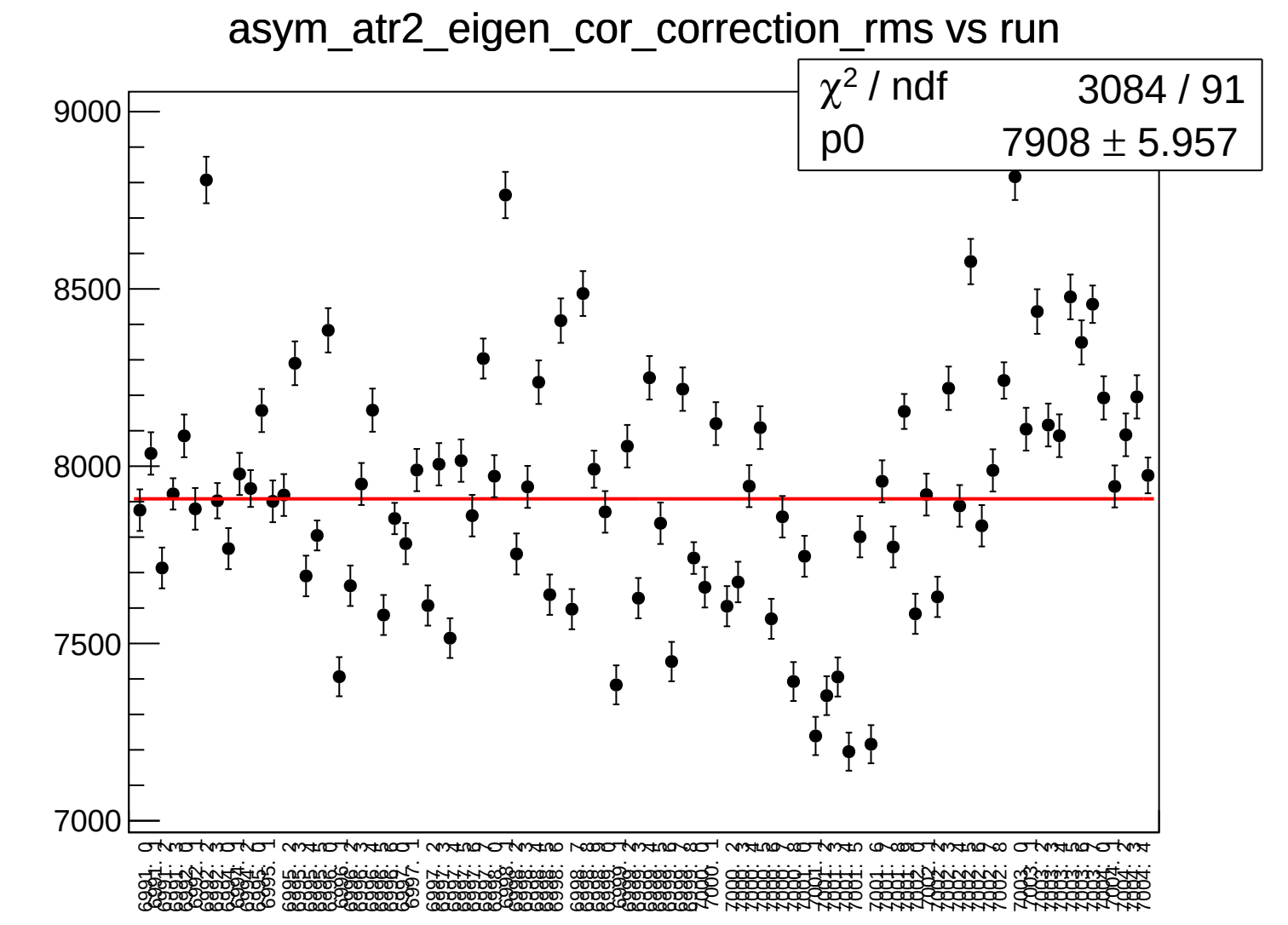

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 84.87 / 91
p0 −3371 ± 2605
100
50
0
−50
−100
pull
Entries 92
Mean 664.4
Std Dev 0
2
1
0
−1
−2

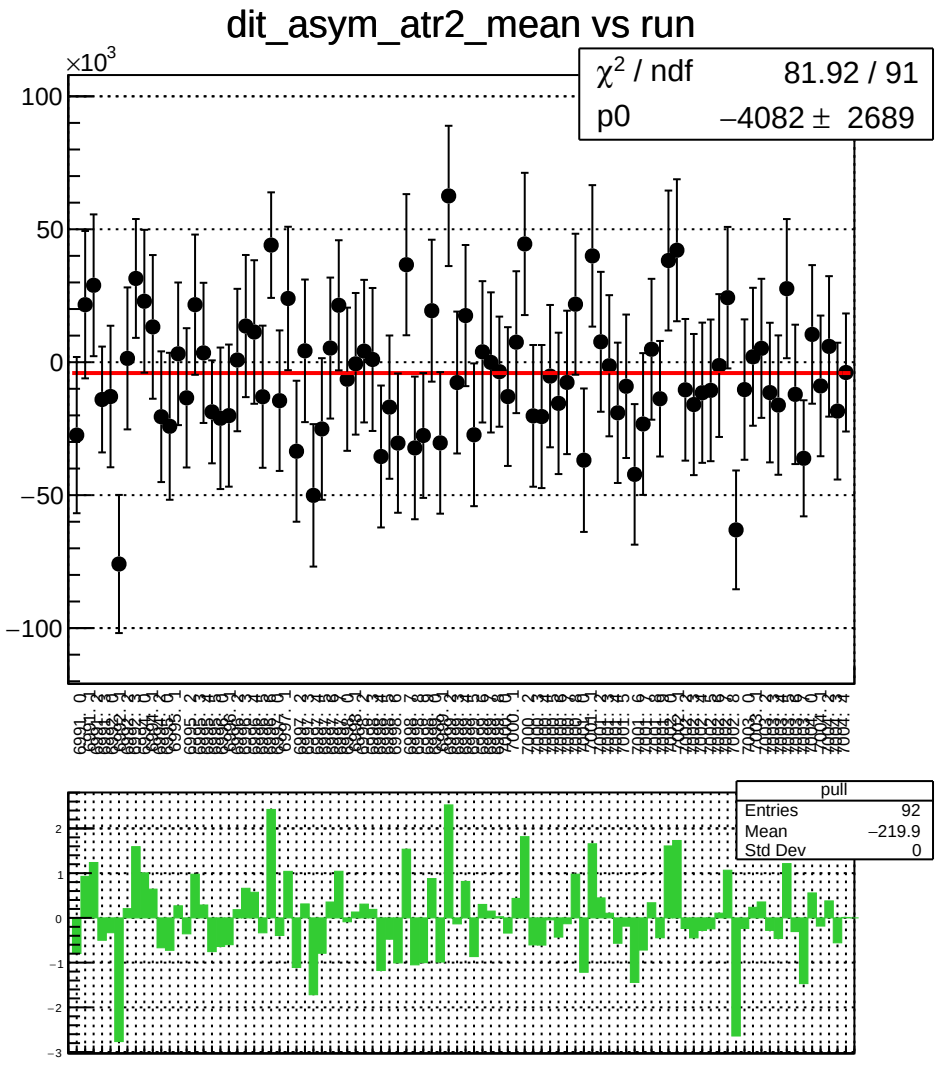

pull1D
Entries 92
Mean 0.0008693
Std Dev 0.9605
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

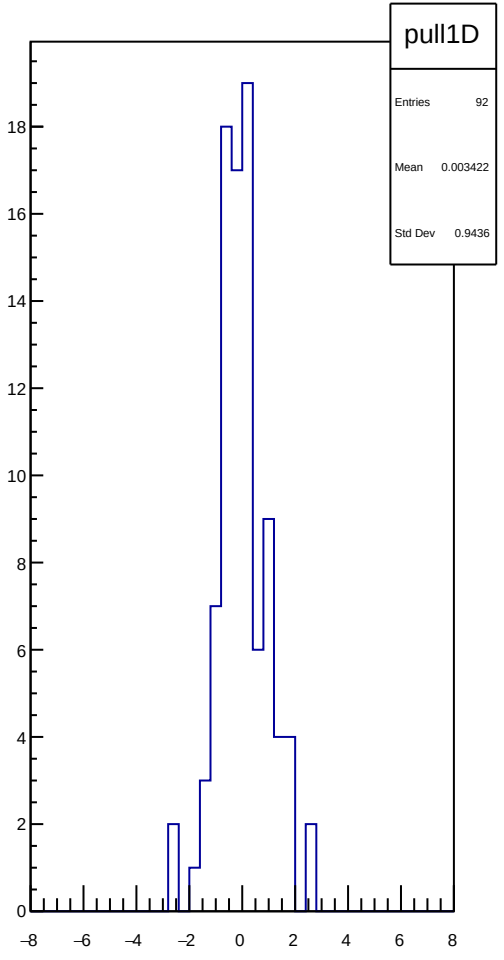

eigen_cor_asym_atr2_rms vs run
χ² / ndf 368.6 / 91
p0 2448 ± 1.842
2650
2600
2550
2500
2450
2400
2350

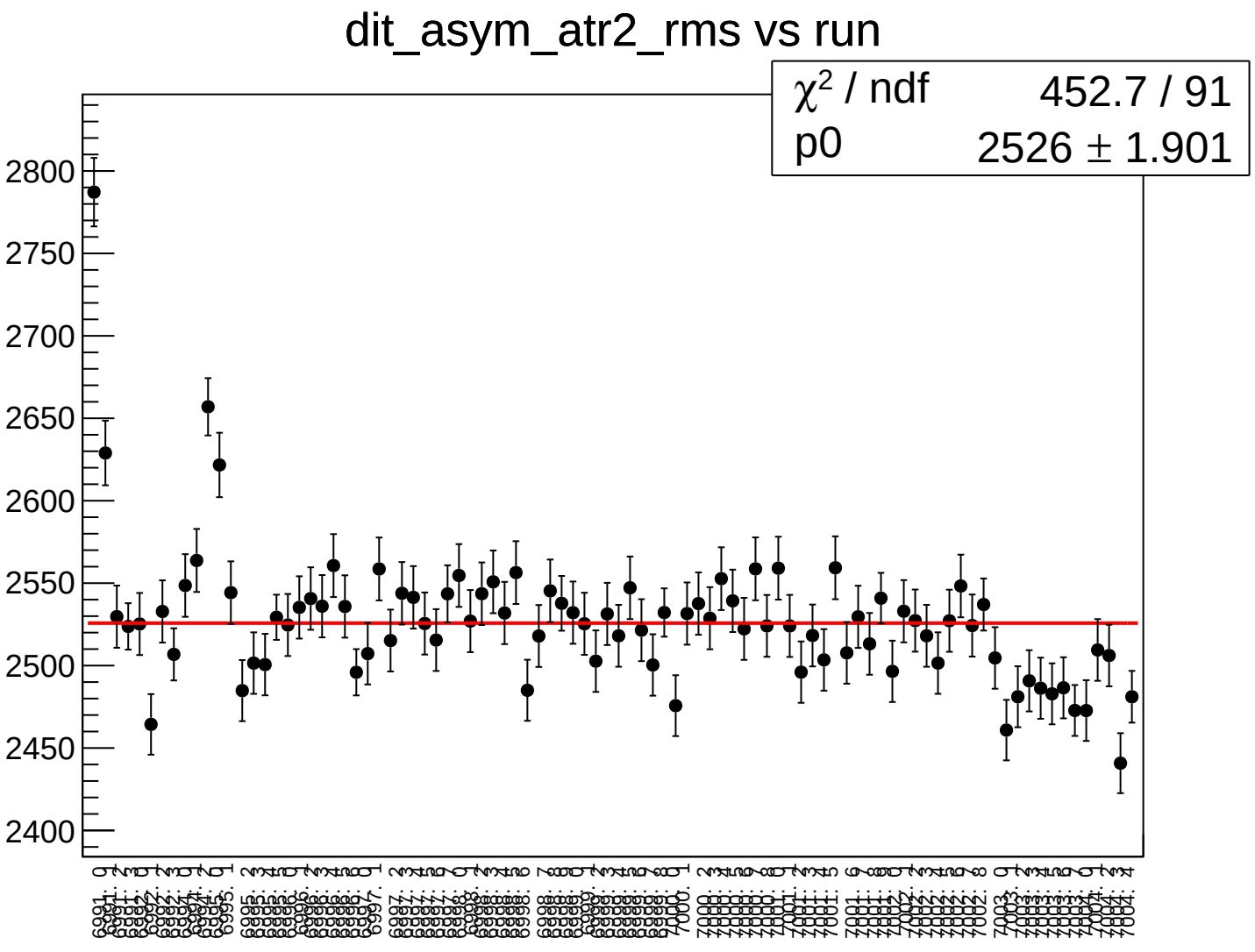

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.1 / 91
p0 −5169 ± 8425
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −4510
Std Dev 0
3
2
1
0
−1
−2
−3

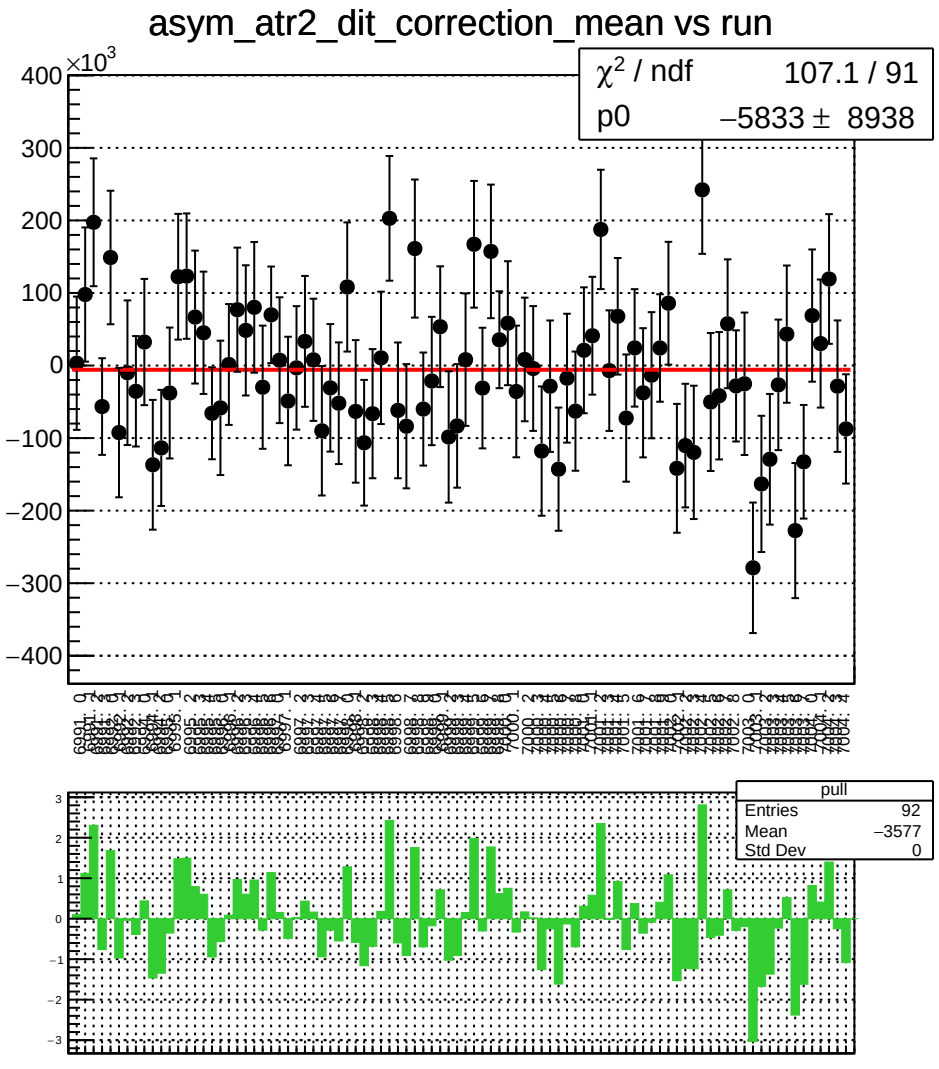

pull1D
Entries 92
Mean 0.001175
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

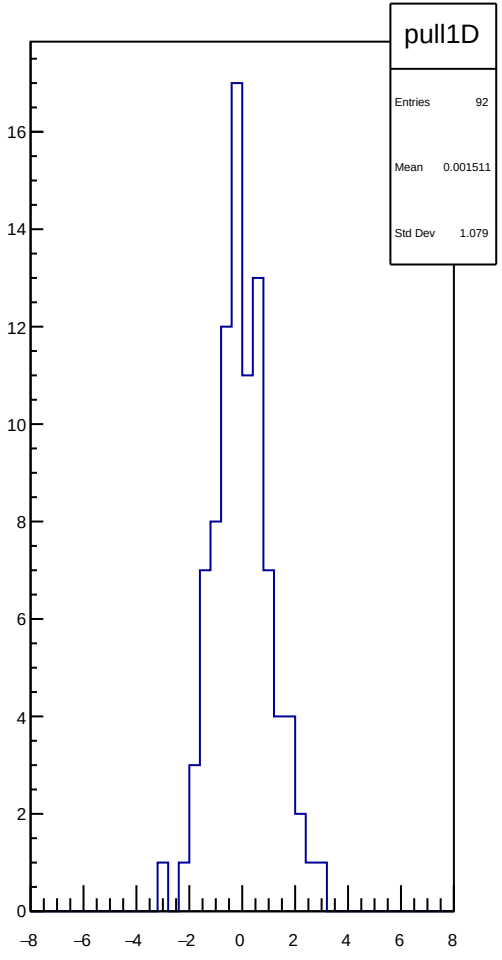

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 3084 / 91
p0 7908 ± 5.957
9000
8500
8000
7500
7000

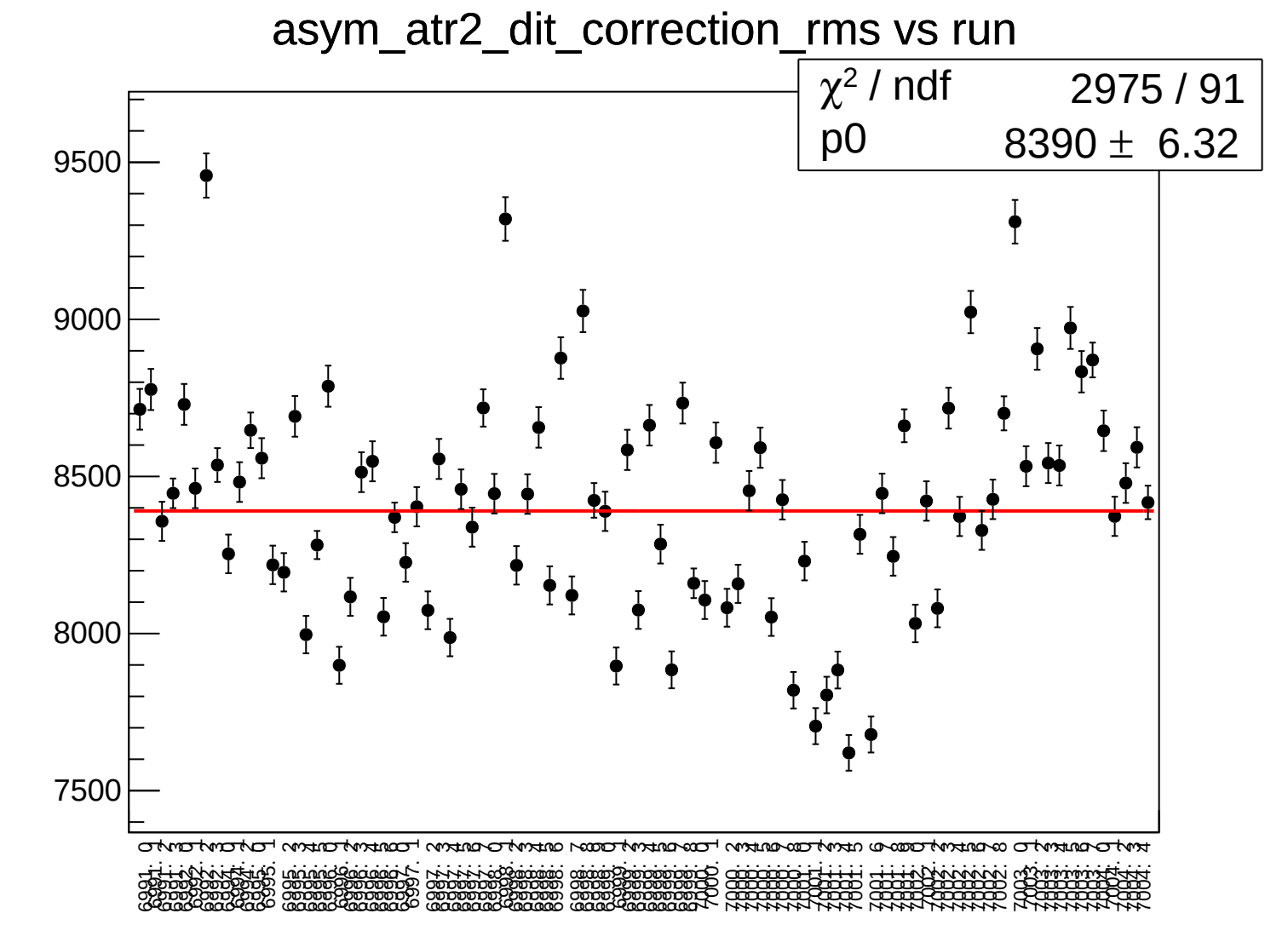

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 81.92 / 91
p0 −4082 ± 2689
100
50
0
−50
−100
pull
Entries 92
Mean −219.9
Std Dev 0
2
1
0
−1
−2
−3

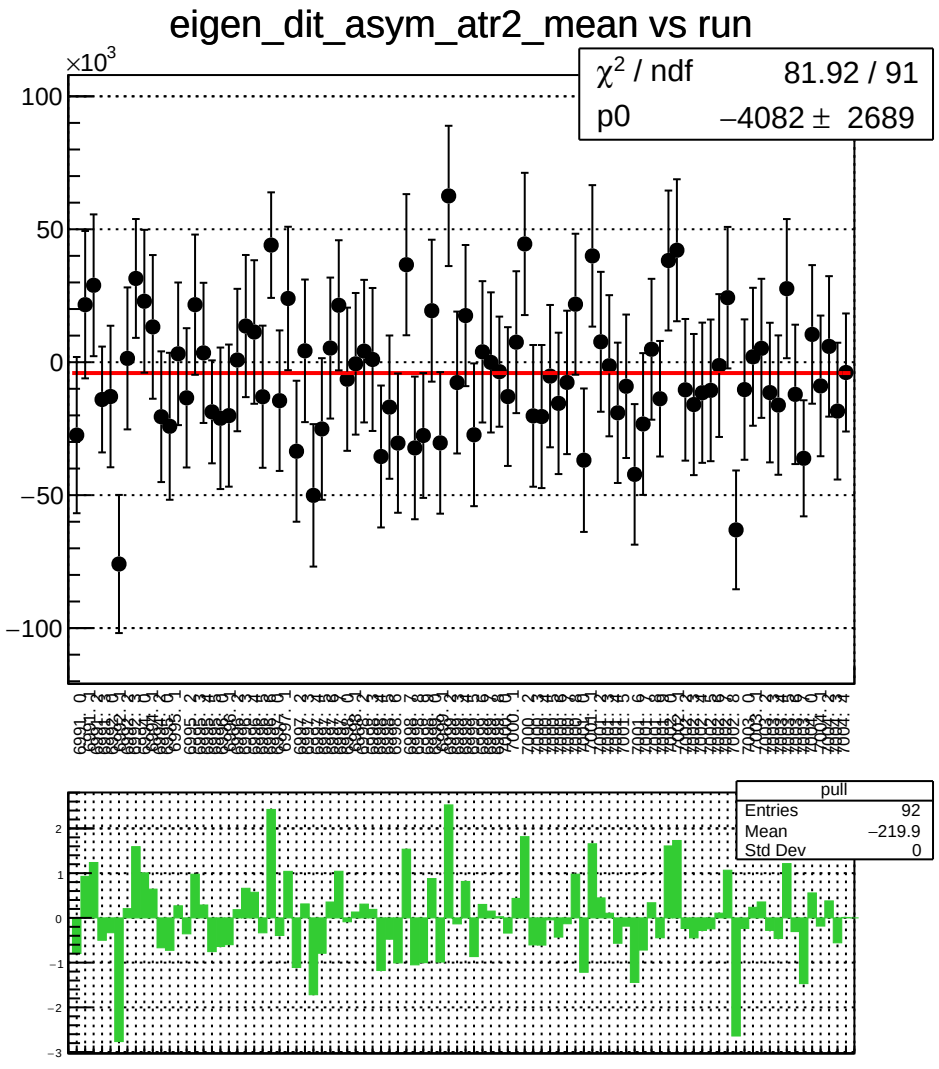

pull1D
Entries 92
Mean 0.003422
Std Dev 0.9436
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

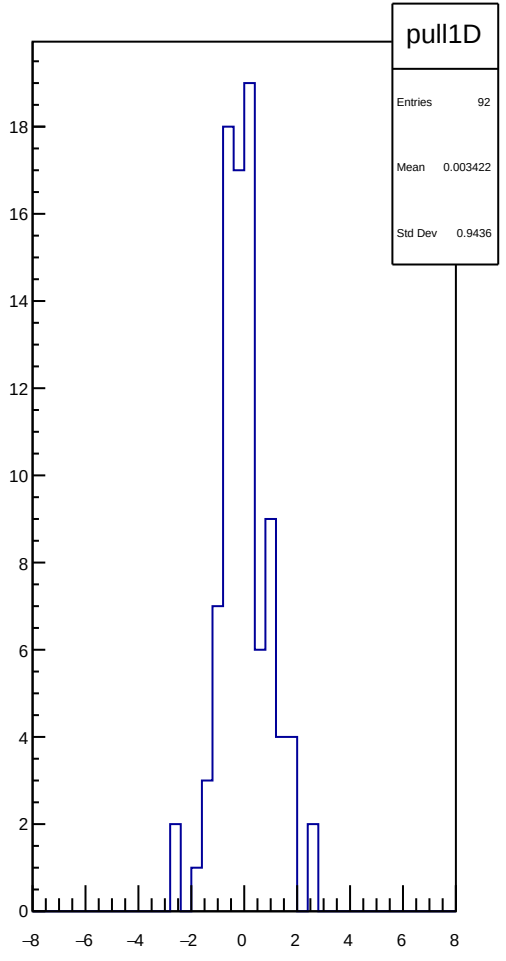

dit_asym_atr2_rms vs run
χ² / ndf 452.7 / 91
p0 2526 ± 1.901
2800
2750
2700
2650
2600
2550
2500
2450
2400

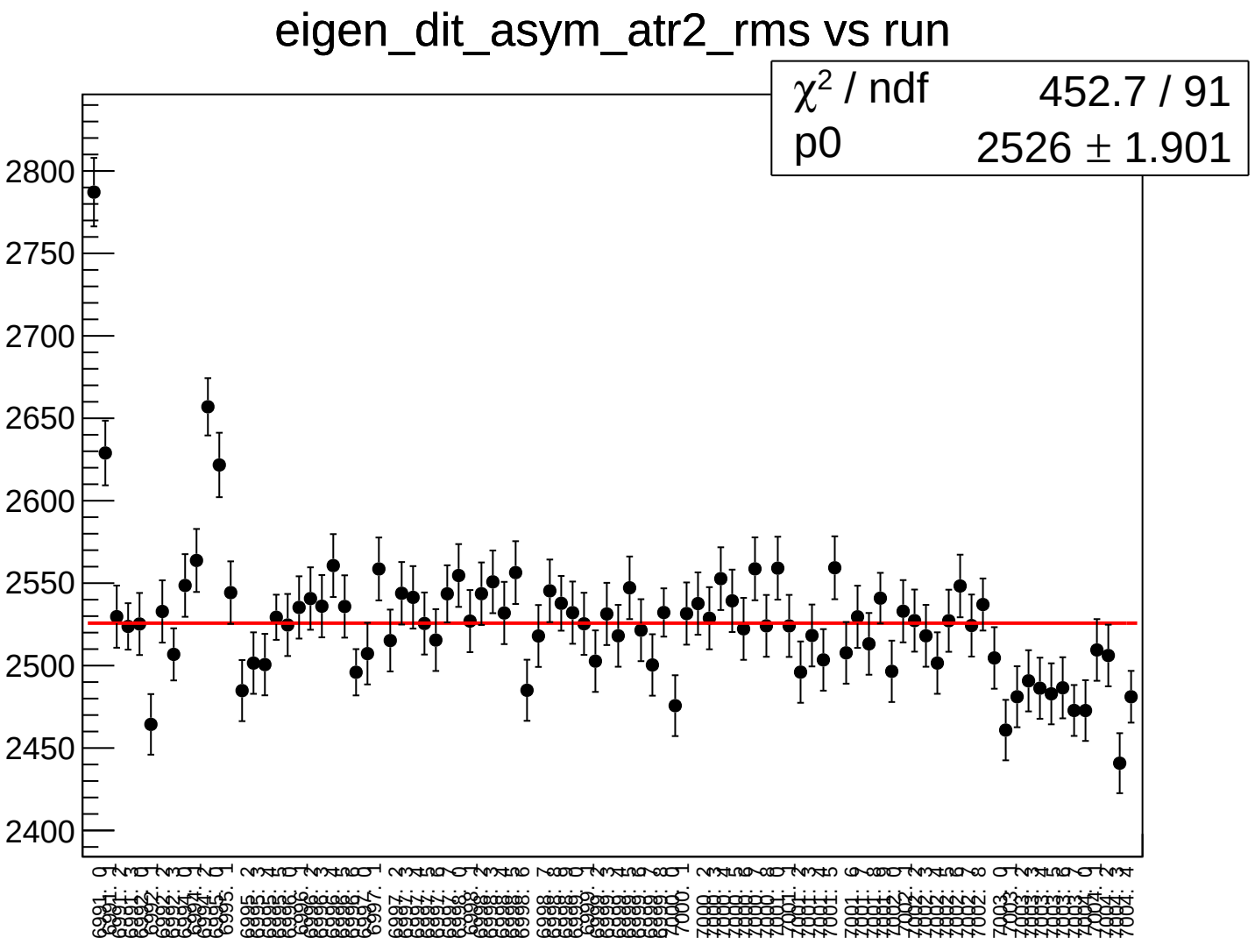

asym_atr2_dit_correction_mean vs run
χ² / ndf 107.1 / 91
p0 −5833 ± 8938
×10³
pull
Entries 92
Mean −3577
Std Dev 0

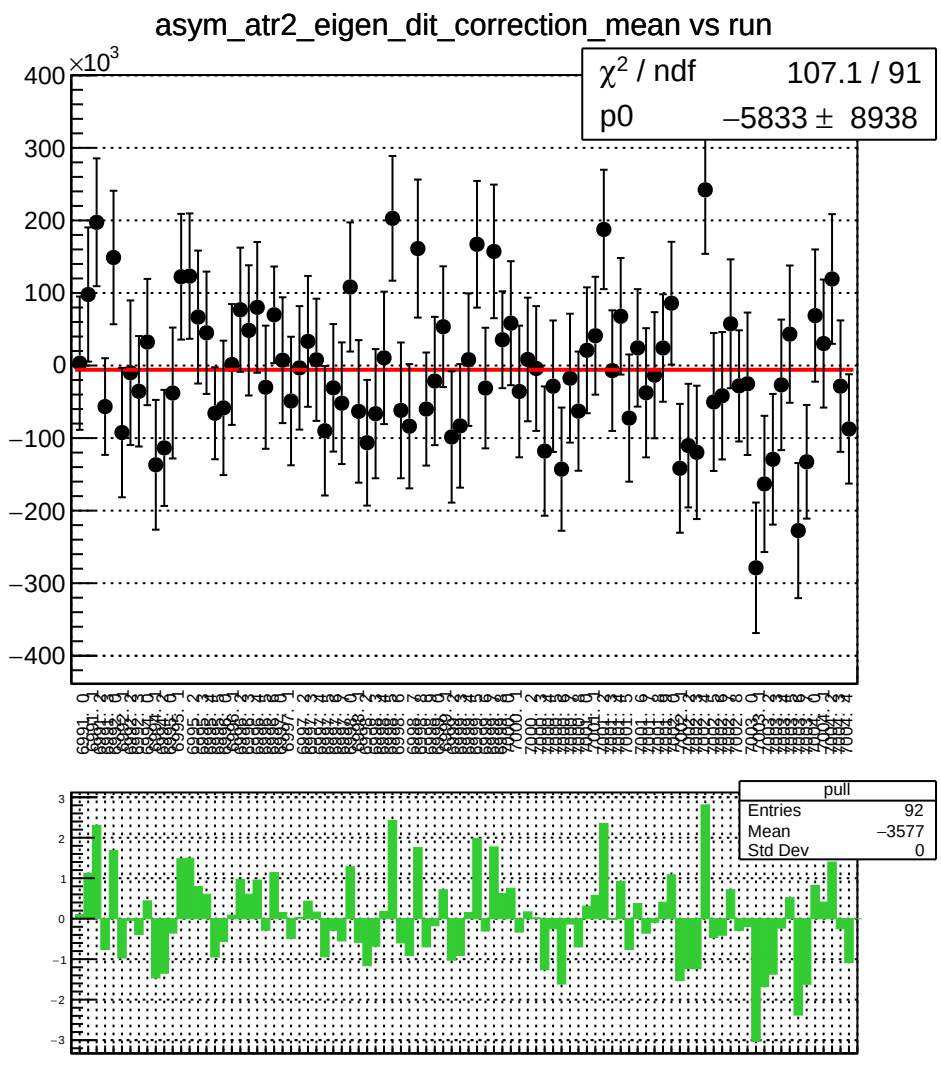

pull1D
Entries 92
Mean 0.001511
Std Dev 1.079

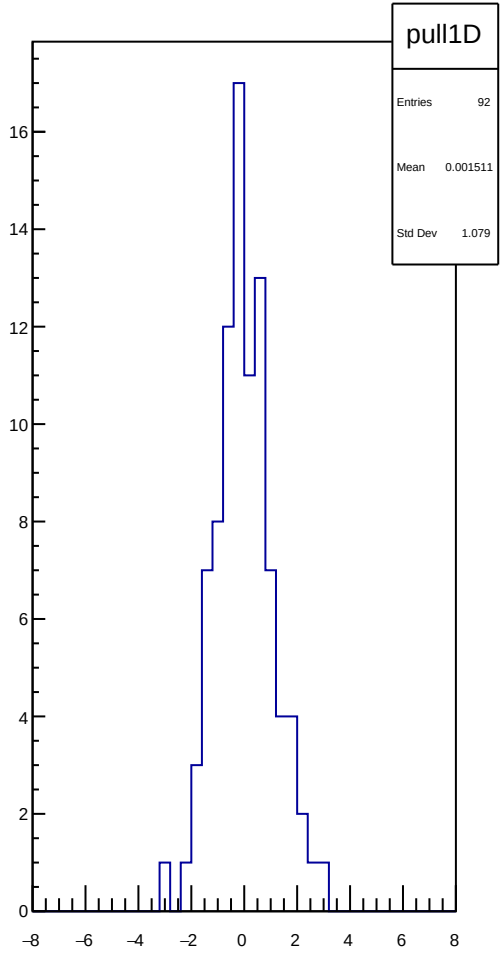

asym_atr2_dit_correction_rms vs run
χ² / ndf 2975 / 91
p0 8390 ± 6.32
9500
9000
8500
8000
7500

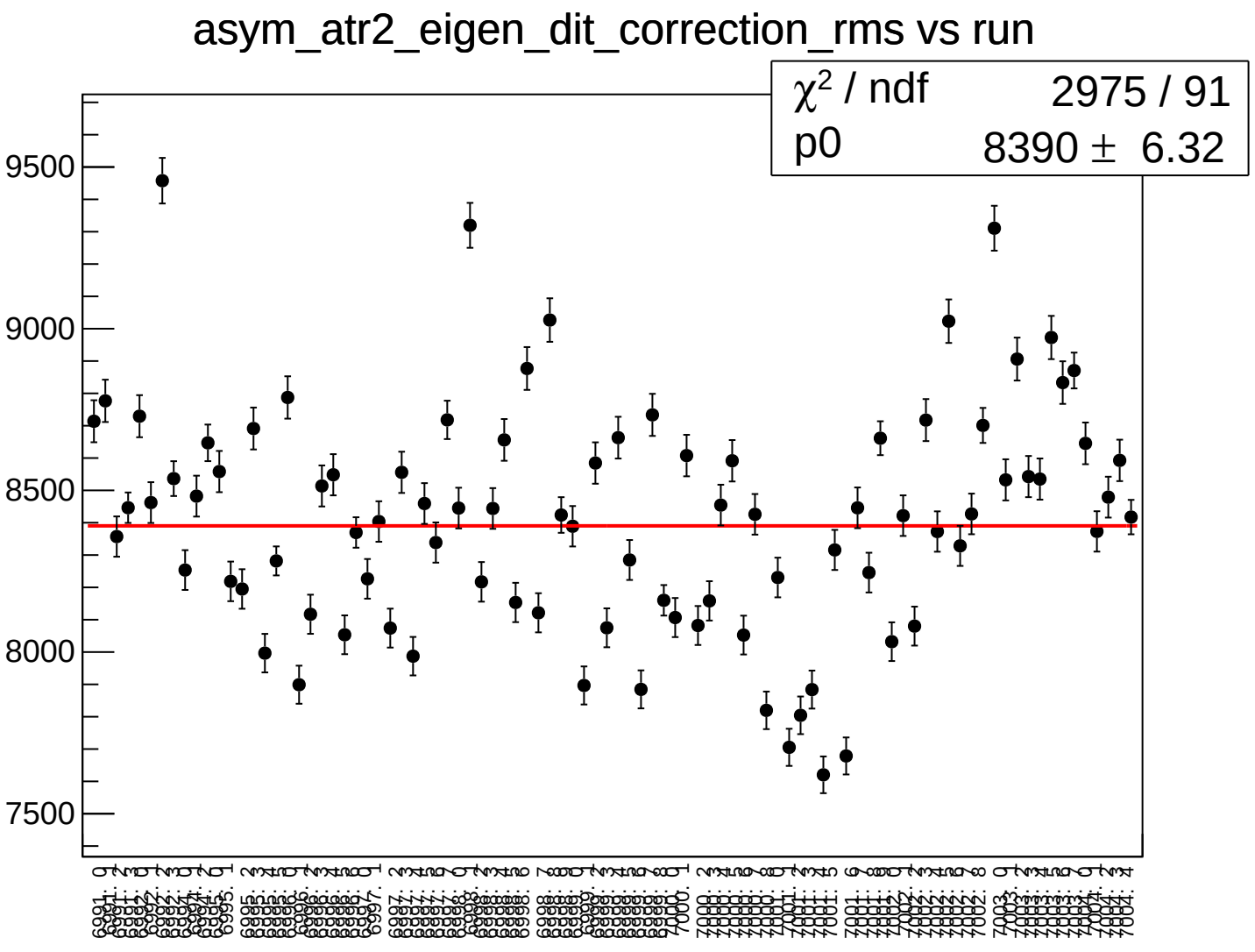

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 81.92 / 91
p0 −4082 ± 2689
100
50
0
−50
−100
pull
Entries 92
Mean −219.9
Std Dev 0
2
1
0
−1
−2
−3

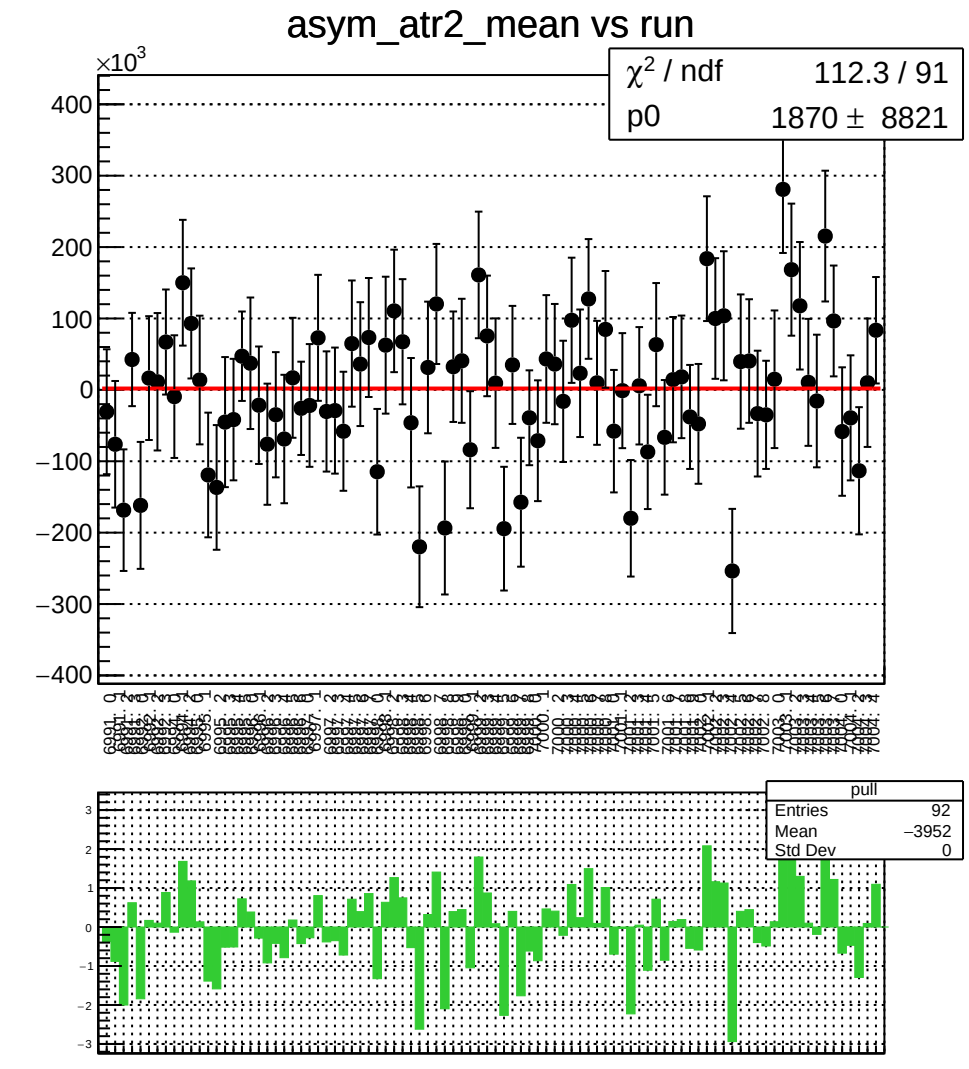

pull1D
Entries 92
Mean 0.003422
Std Dev 0.9436
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

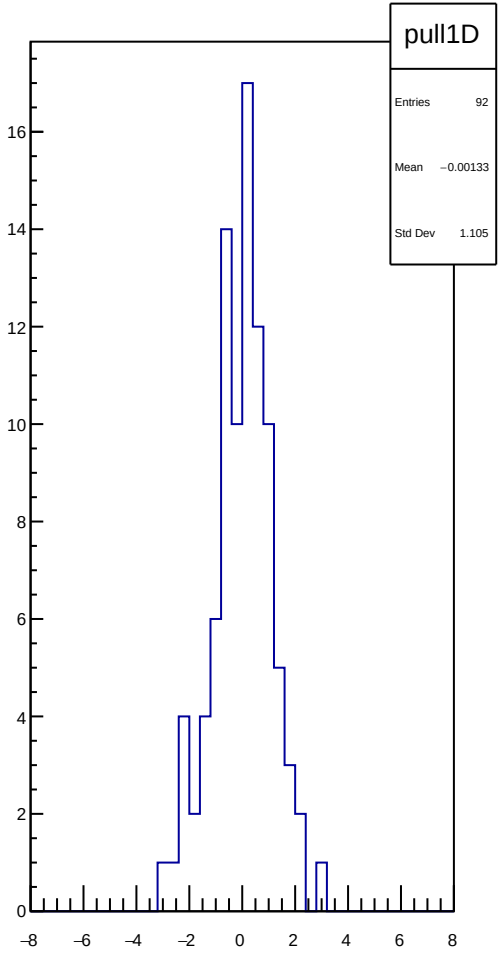

eigen_dit_asym_atr2_rms vs run
χ² / ndf 452.7 / 91
p0 2526 ± 1.901
2800
2750
2700
2650
2600
2550
2500
2450
2400

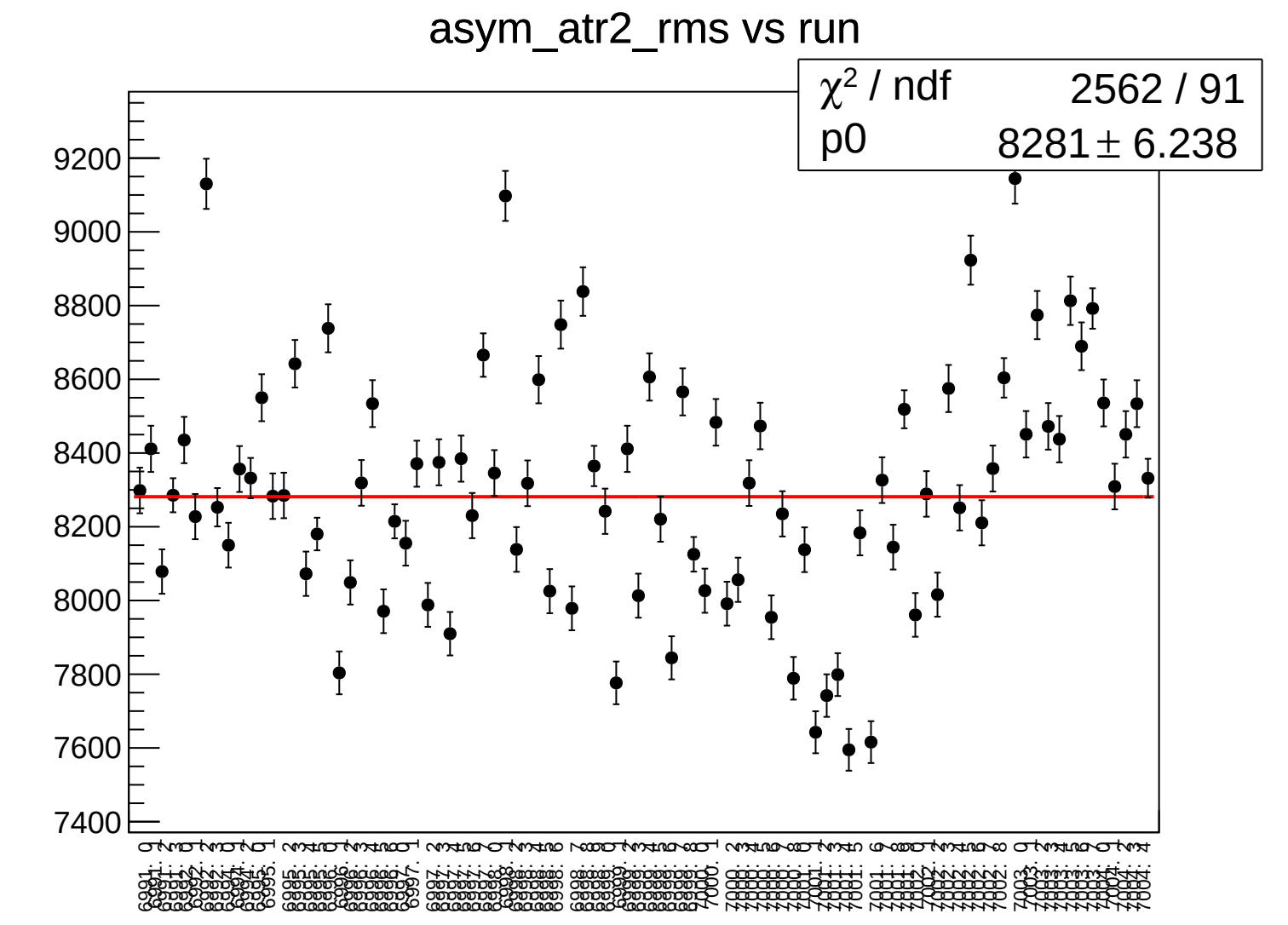

asym_atr2_eigen_dit_correction_mean vs run
χ² / ndf 107.1 / 91
p0 −5833 ± 8938
pull
Entries 92
Mean −3577
Std Dev 0

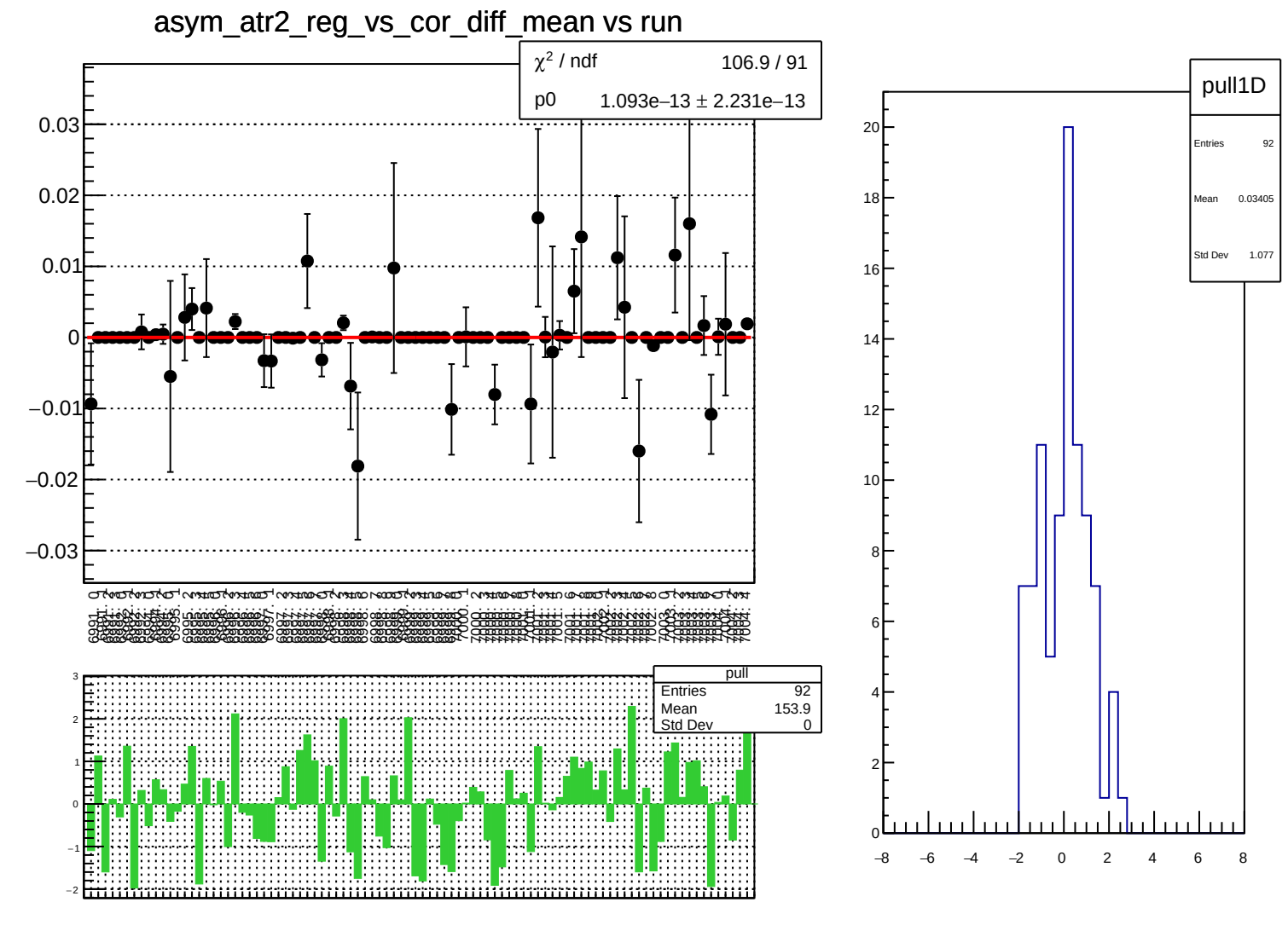

pull1D
Entries 92
Mean 0.001511
Std Dev 1.079

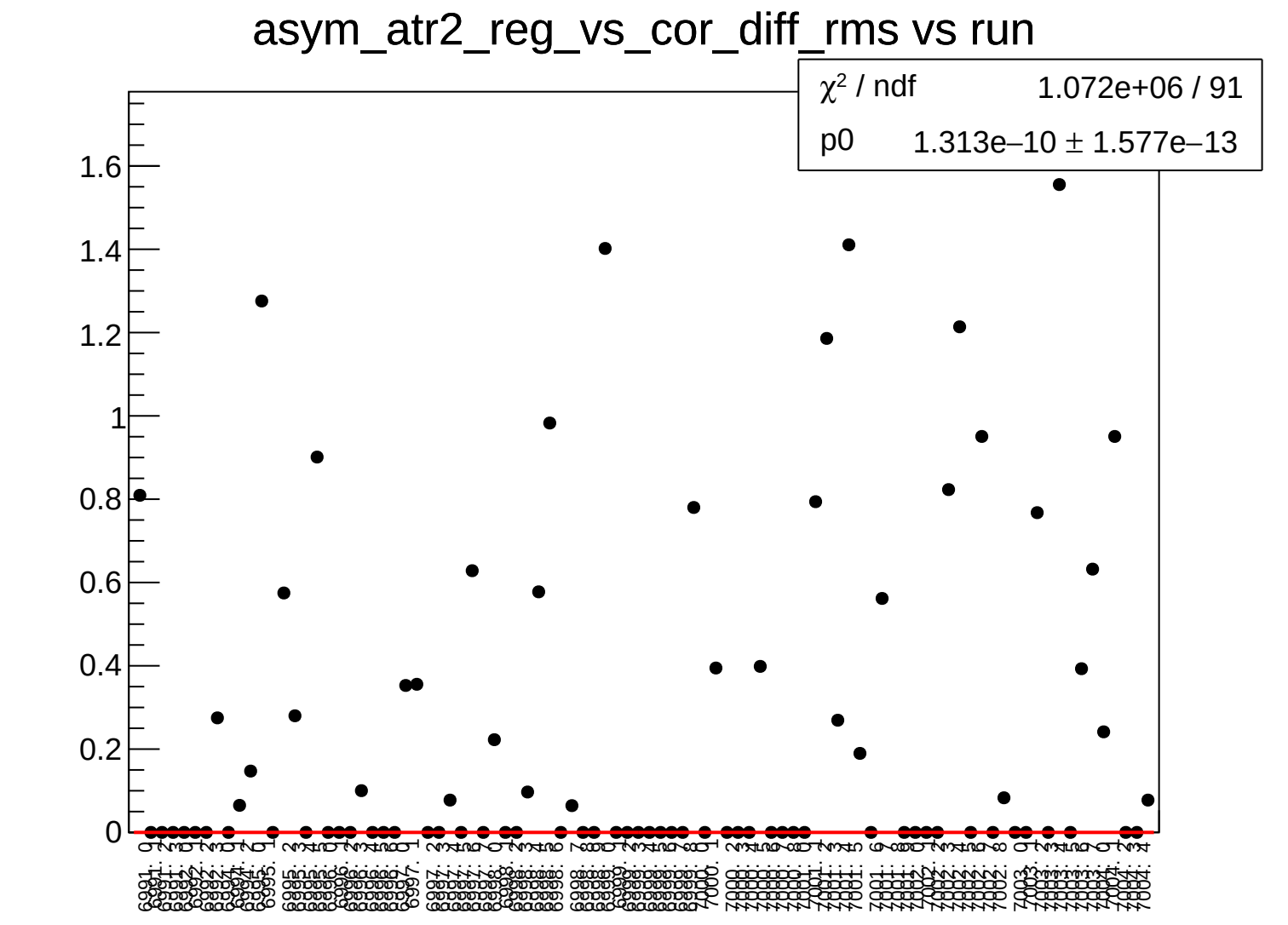

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 2975 / 91
p0 8390 ± 6.32
9500
9000
8500
8000
7500

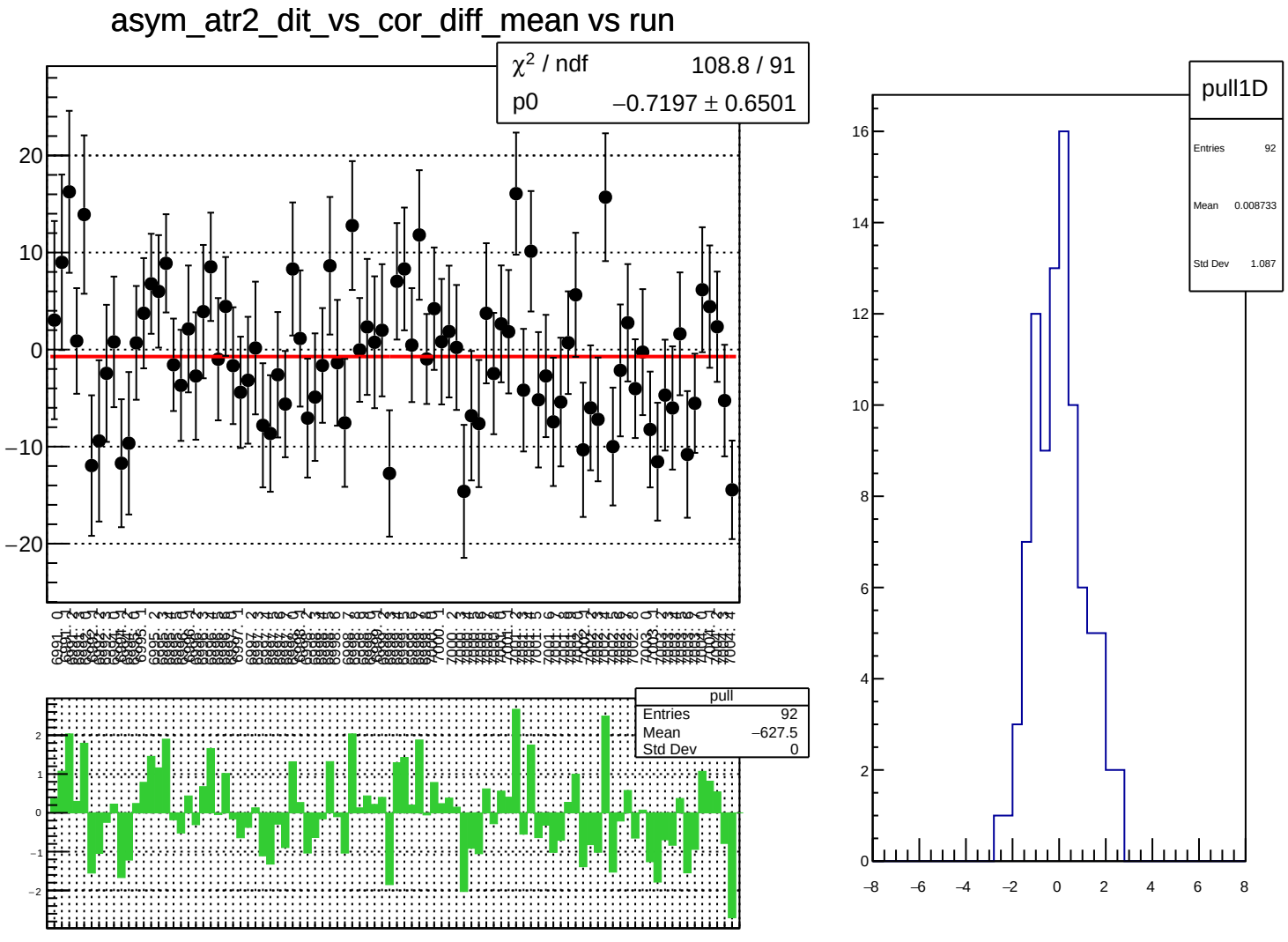

asym_atr2_mean vs run
×10^3
χ² / ndf 112.3 / 91
p0 1870 ± 8821
pull
Entries 92
Mean −3952
Std Dev 0

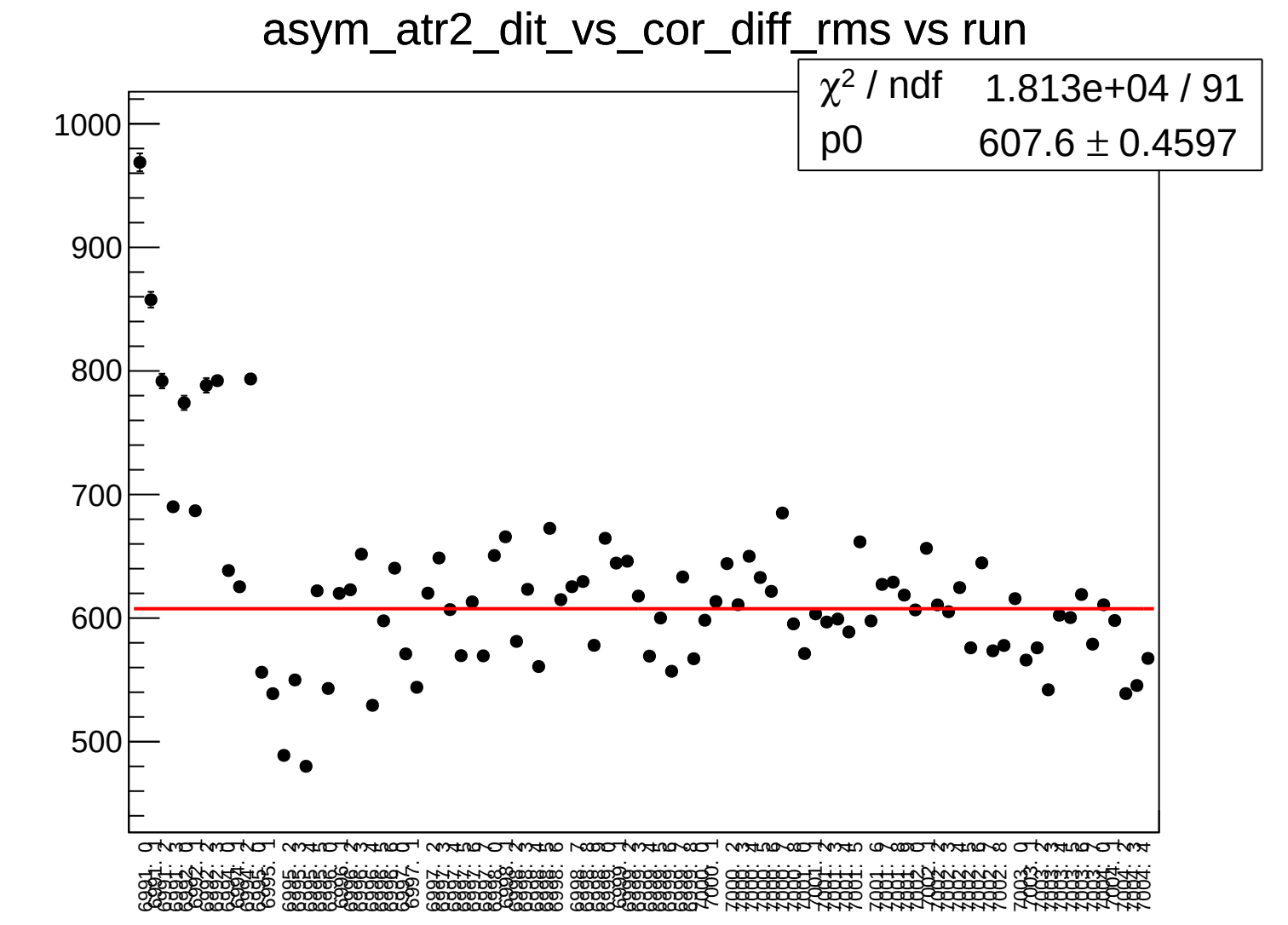

pull1D
Entries 92
Mean −0.00133
Std Dev 1.105

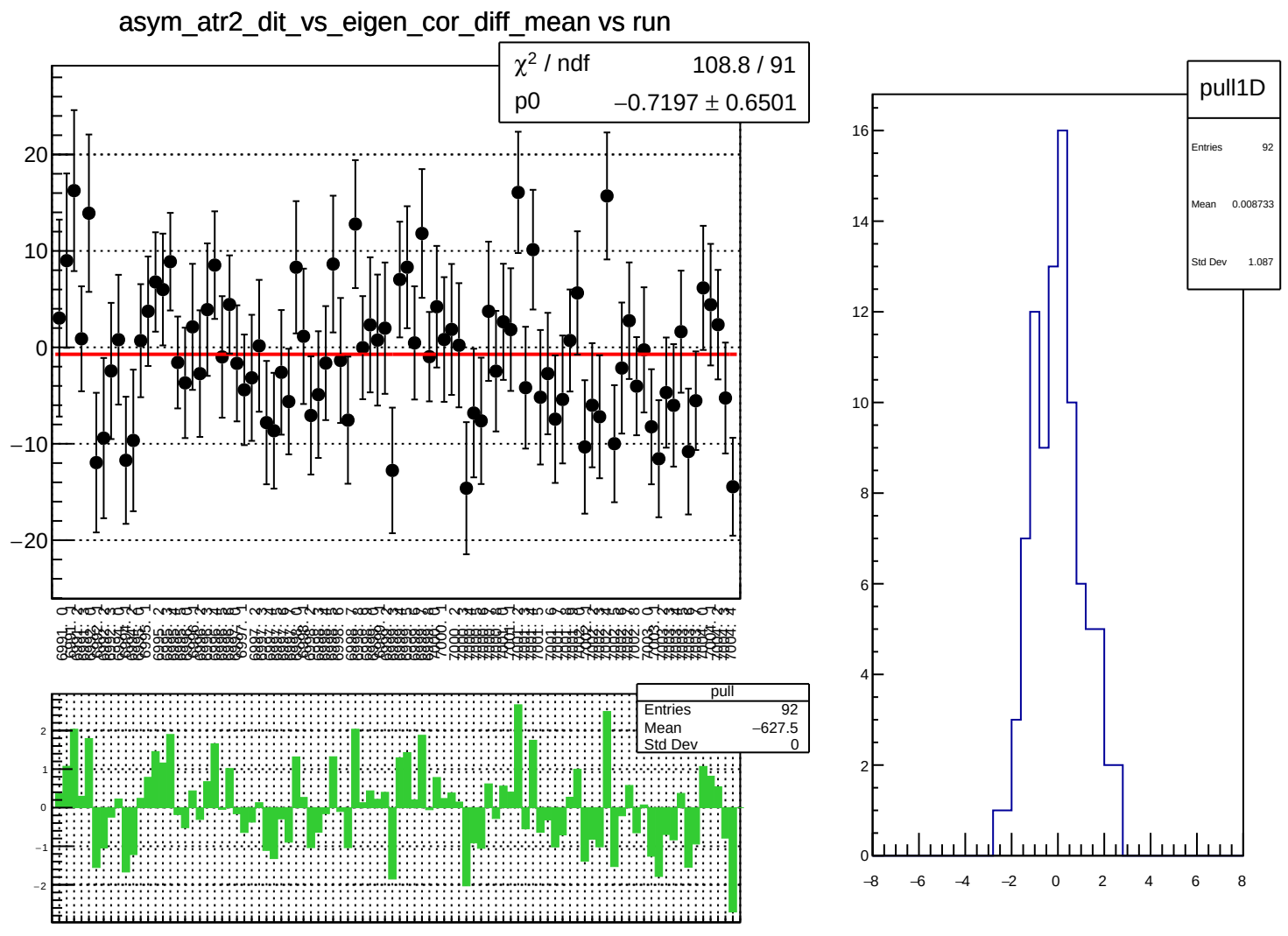

asym_atr2_rms vs run
χ² / ndf 2562 / 91
p0 8281 ± 6.238
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

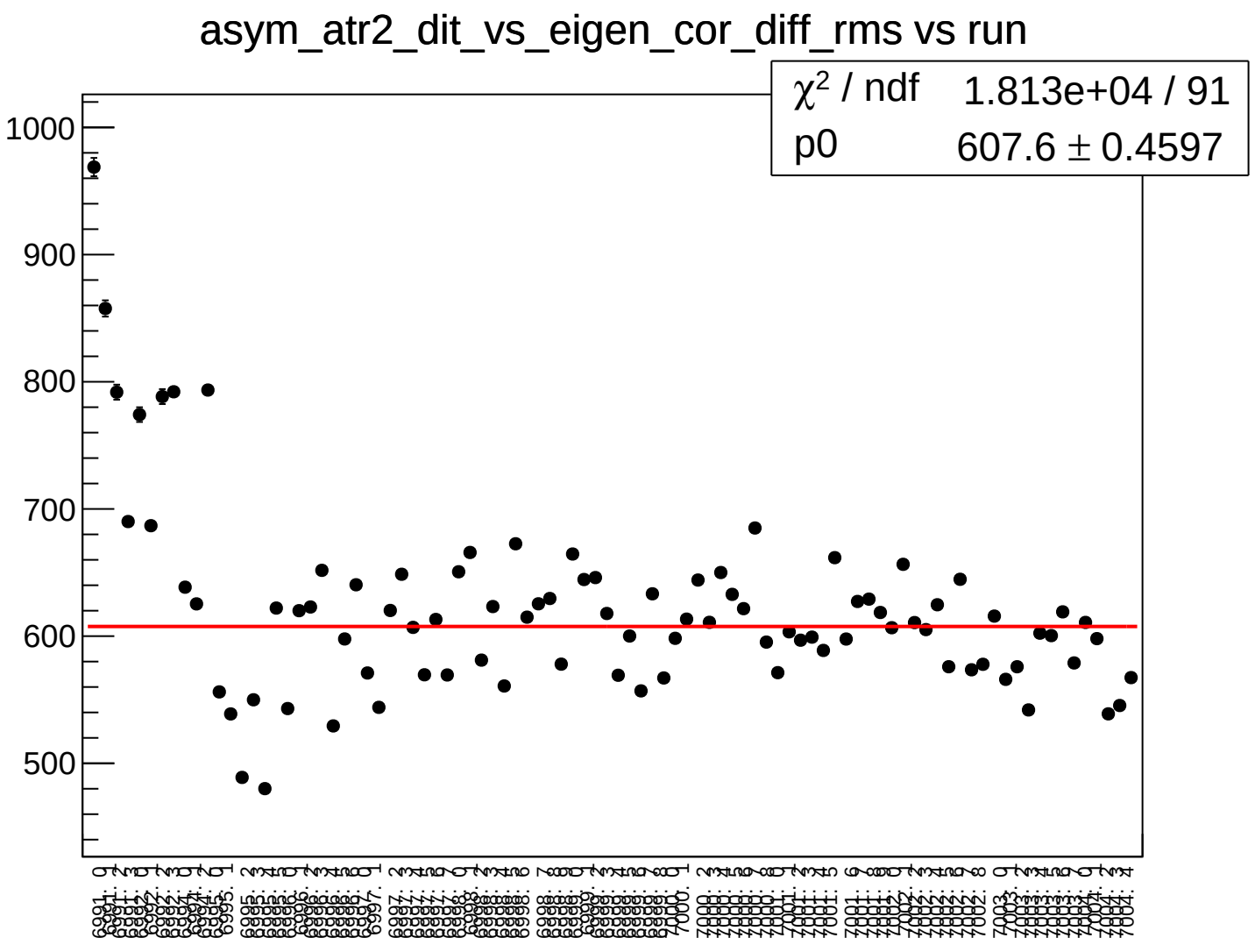

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 91
p0 1.093e−13 ± 2.231e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 153.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.03405
Std Dev 1.077
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

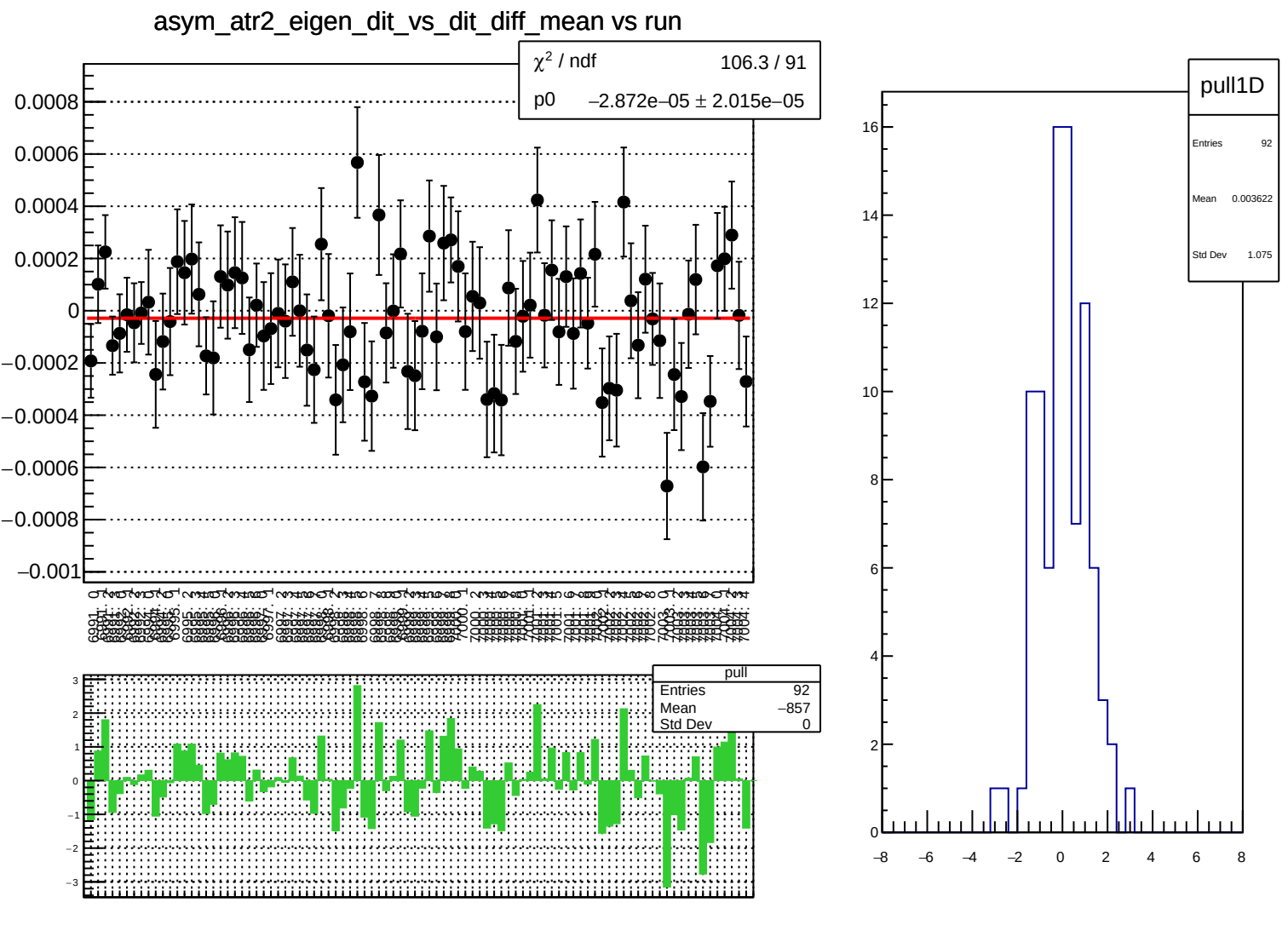

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.072e+06 / 91
p0 1.313e−10 ± 1.577e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

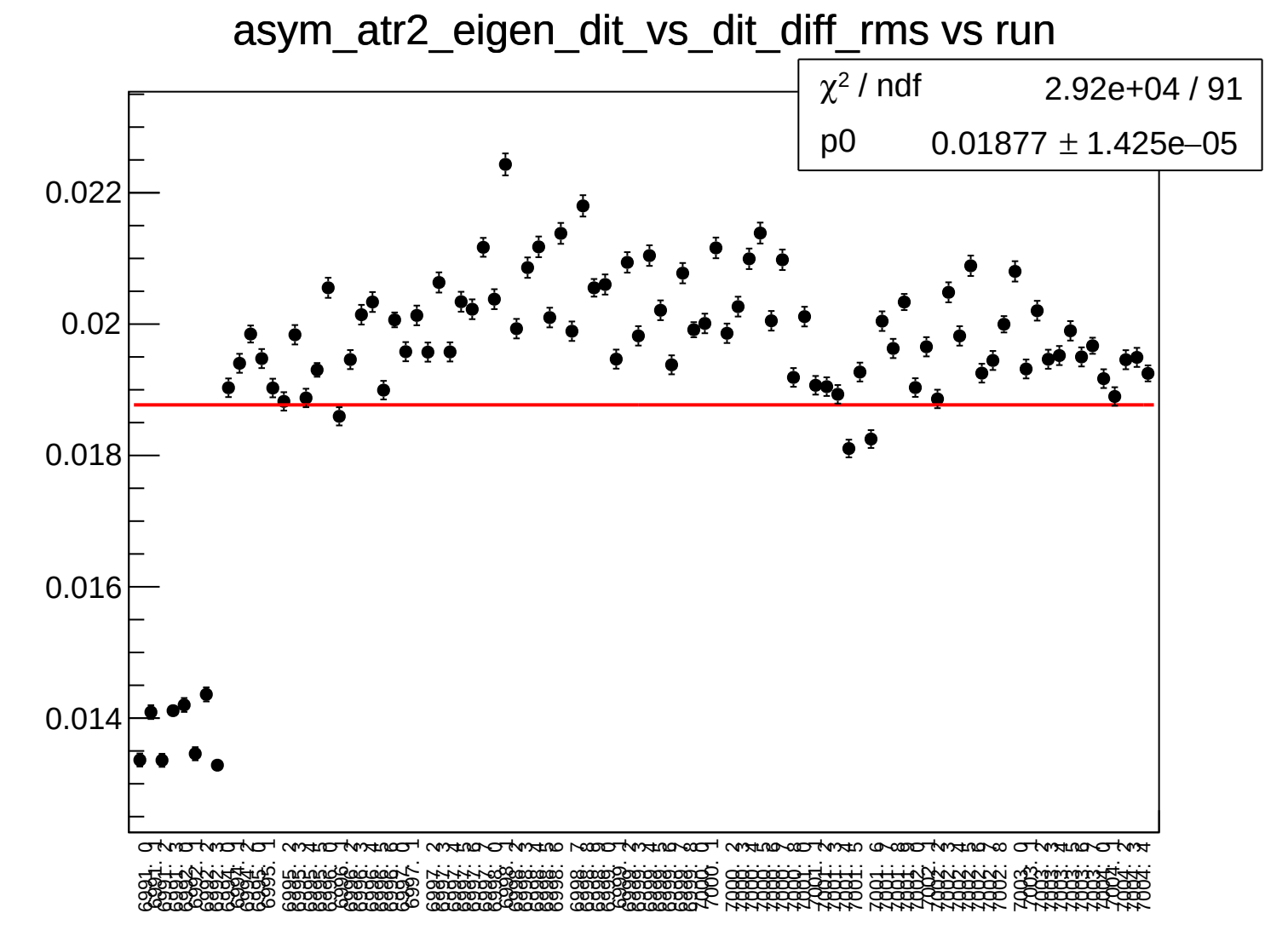

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 91
p0 −0.7197 ± 0.6501
pull
Entries 92
Mean −627.5
Std Dev 0
pull1D
Entries 92
Mean 0.008733
Std Dev 1.087

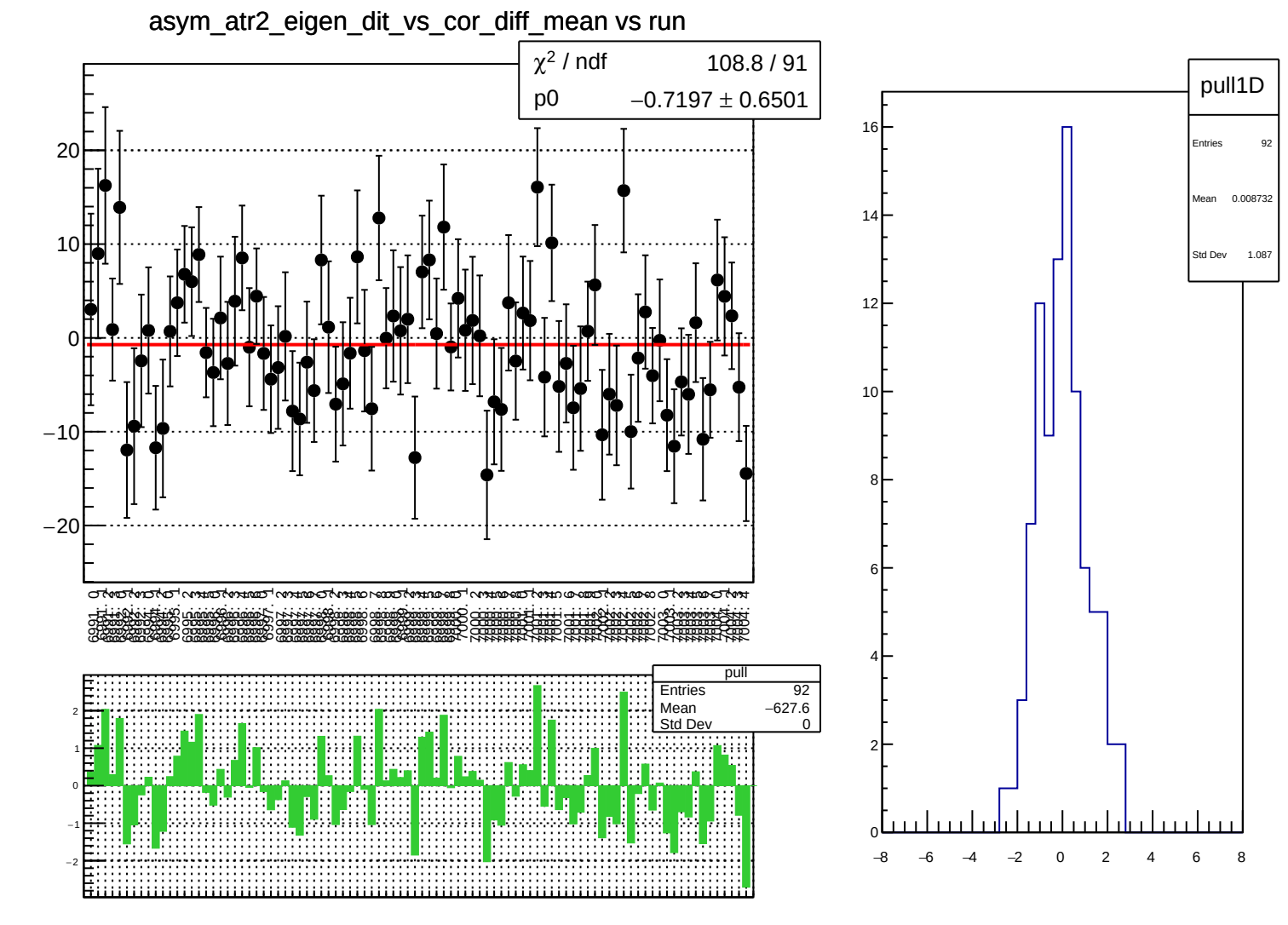

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.813e+04 / 91
p0 607.6 ± 0.4597
1000
900
800
700
600
500

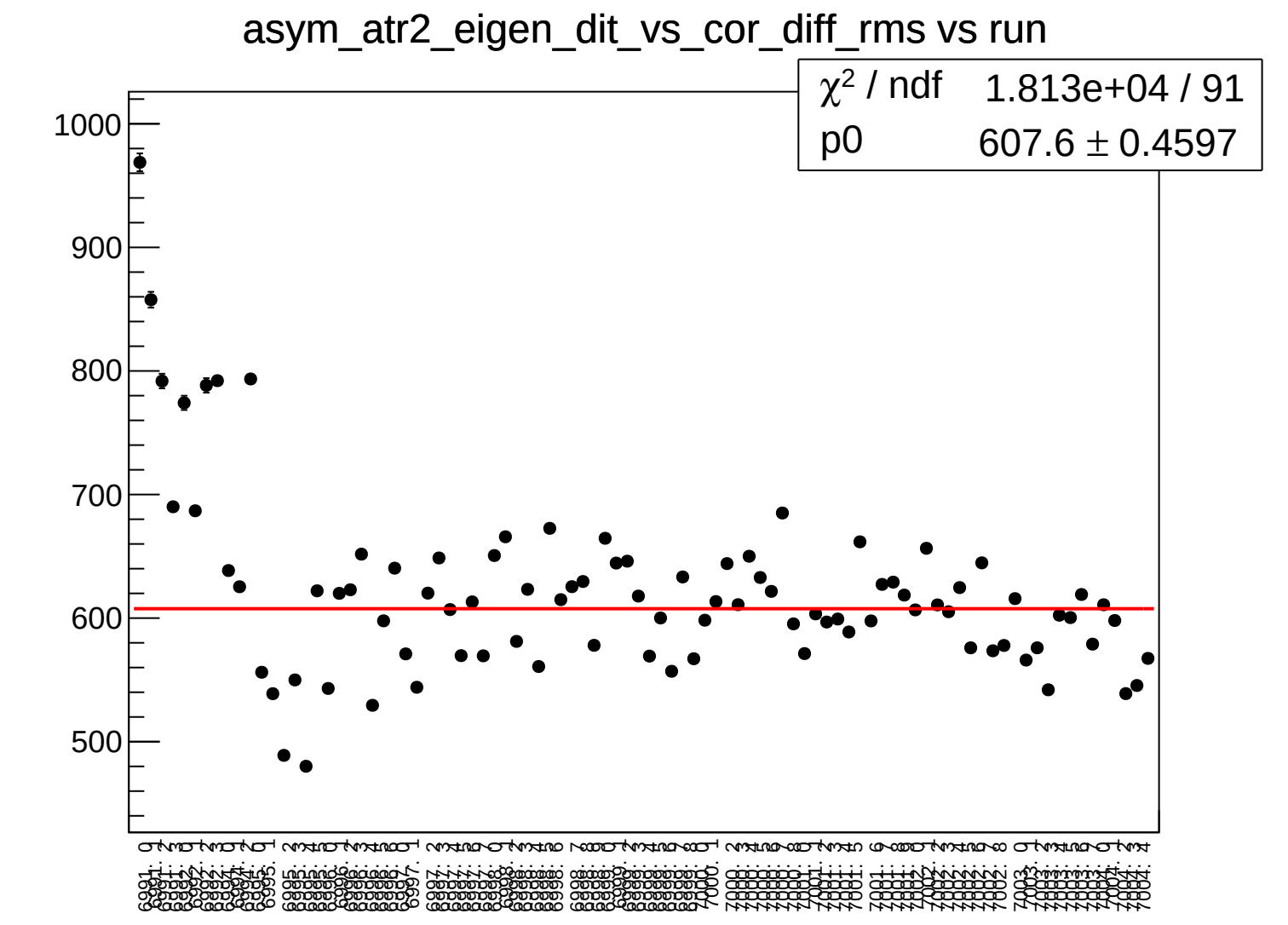

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.8 / 91
p0 −0.7197 ± 0.6501
pull
Entries 92
Mean −627.5
Std Dev 0
pull1D
Entries 92
Mean 0.008733
Std Dev 1.087

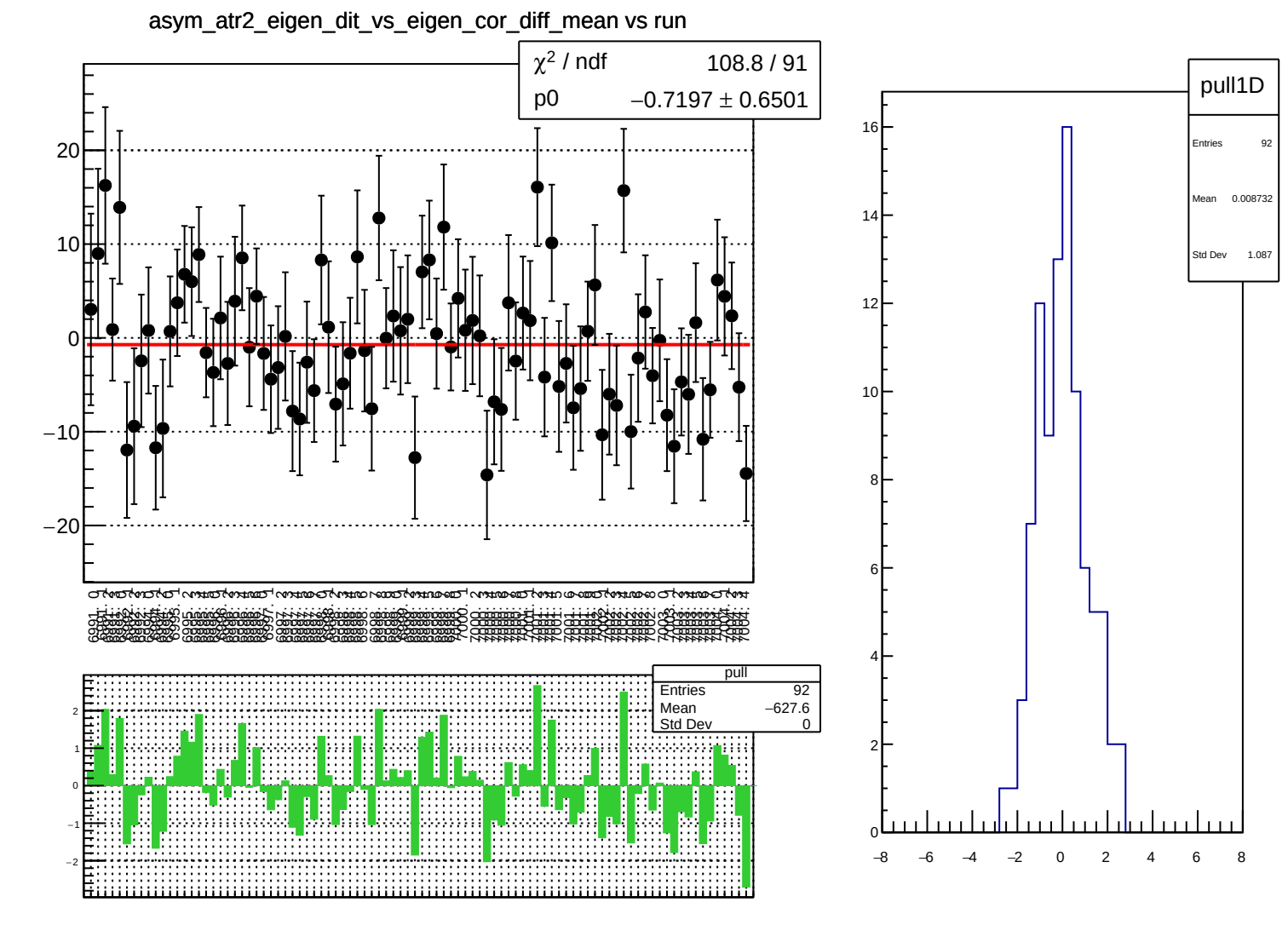

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.813e+04 / 91
p0 607.6 ± 0.4597
1000
900
800
700
600
500

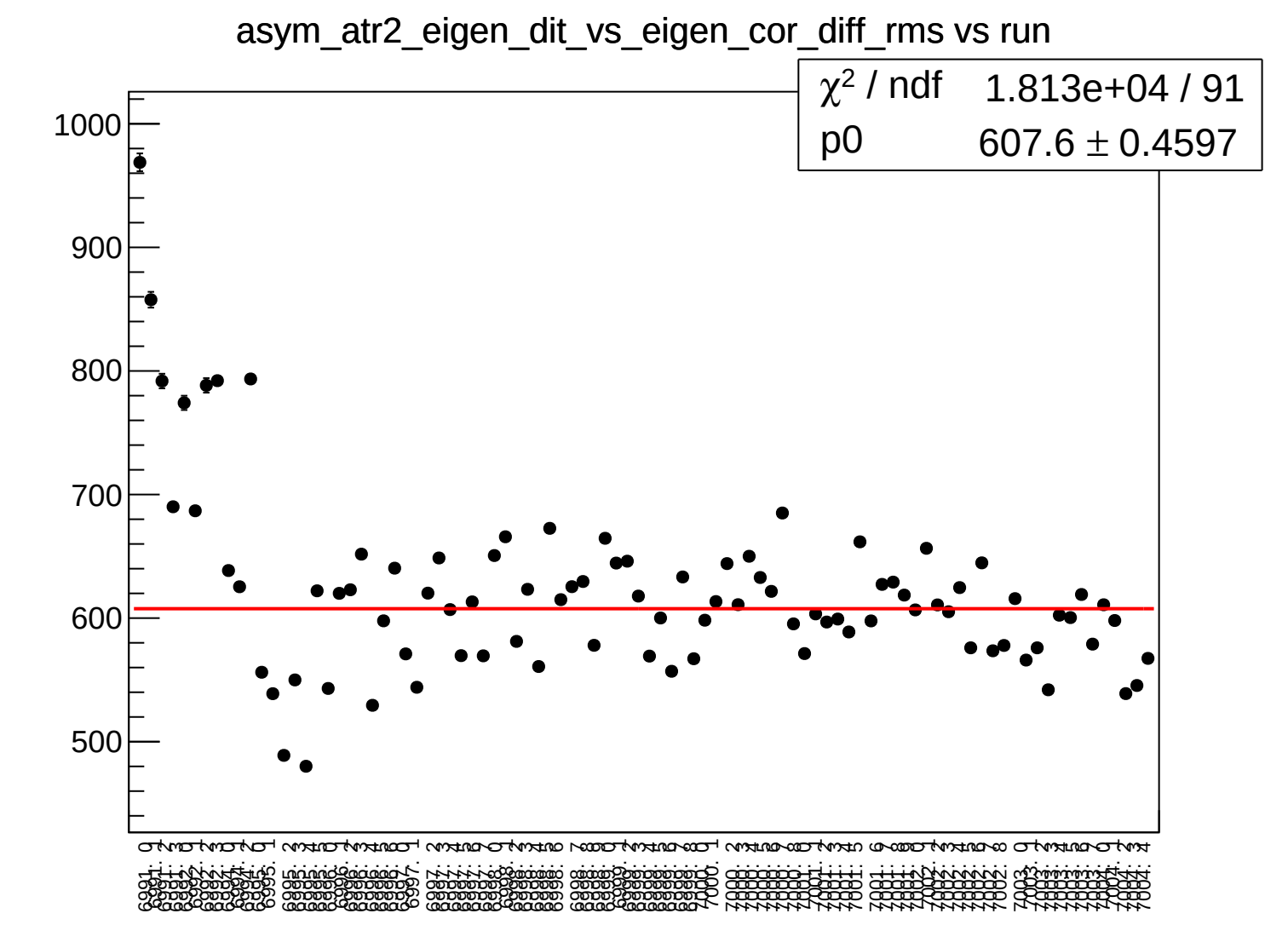

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 106.3 / 91
p0 −2.872e−05 ± 2.015e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 92
Mean −857
Std Dev 0
pull1D
Entries 92
Mean 0.003622
Std Dev 1.075

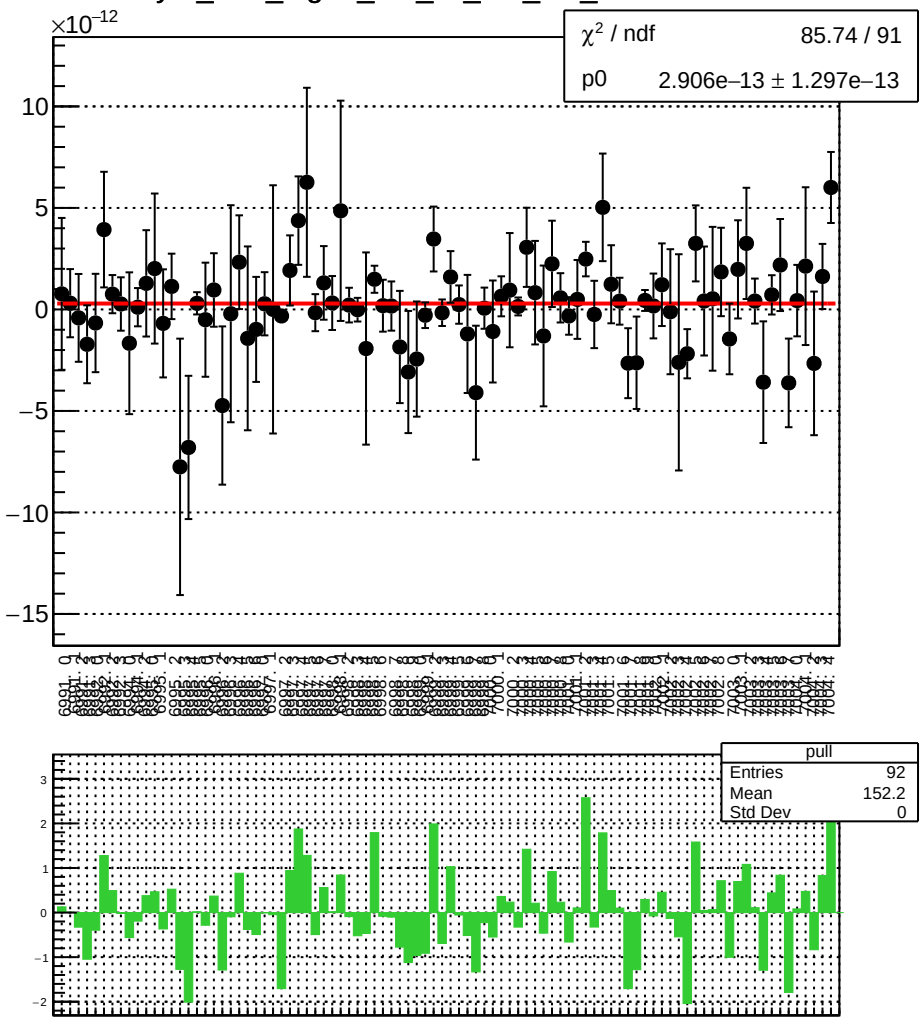

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.92e+04 / 91
p0 0.01877 ± 1.425e−05
0.022
0.02
0.018
0.016
0.014

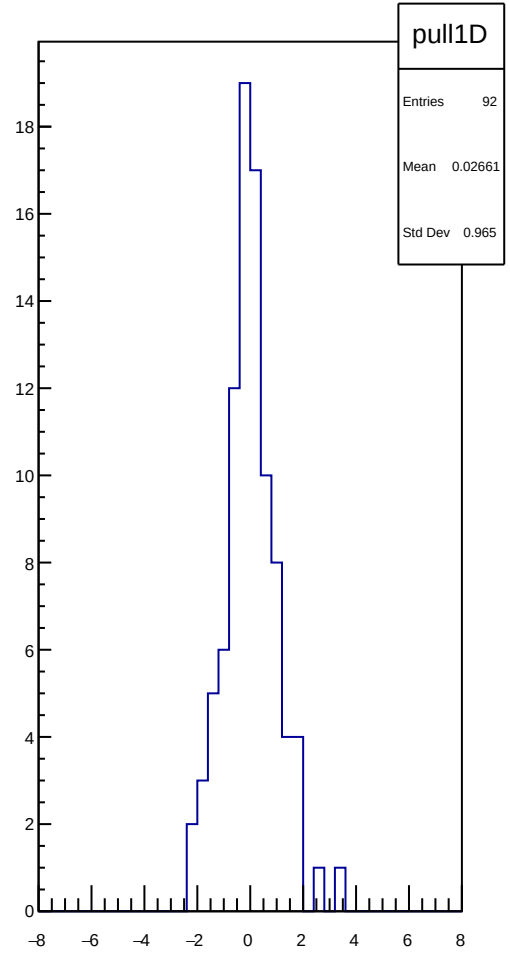

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.8 / 91
p0 −0.7197 ± 0.6501
pull
Entries 92
Mean −627.6
Std Dev 0
pull1D
Entries 92
Mean 0.008732
Std Dev 1.087

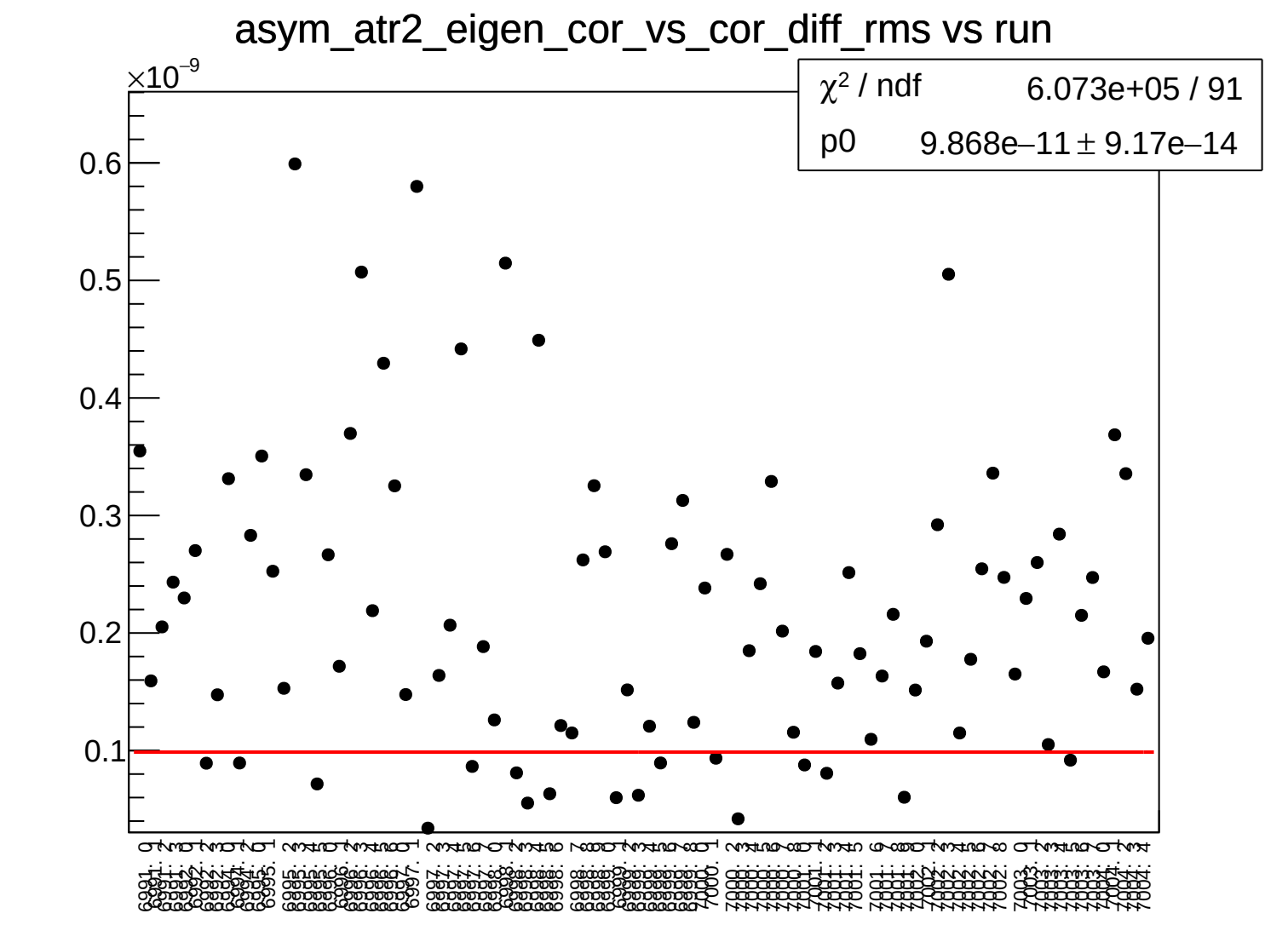

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.813e+04 / 91
p0 607.6 ± 0.4597
1000
900
800
700
600
500

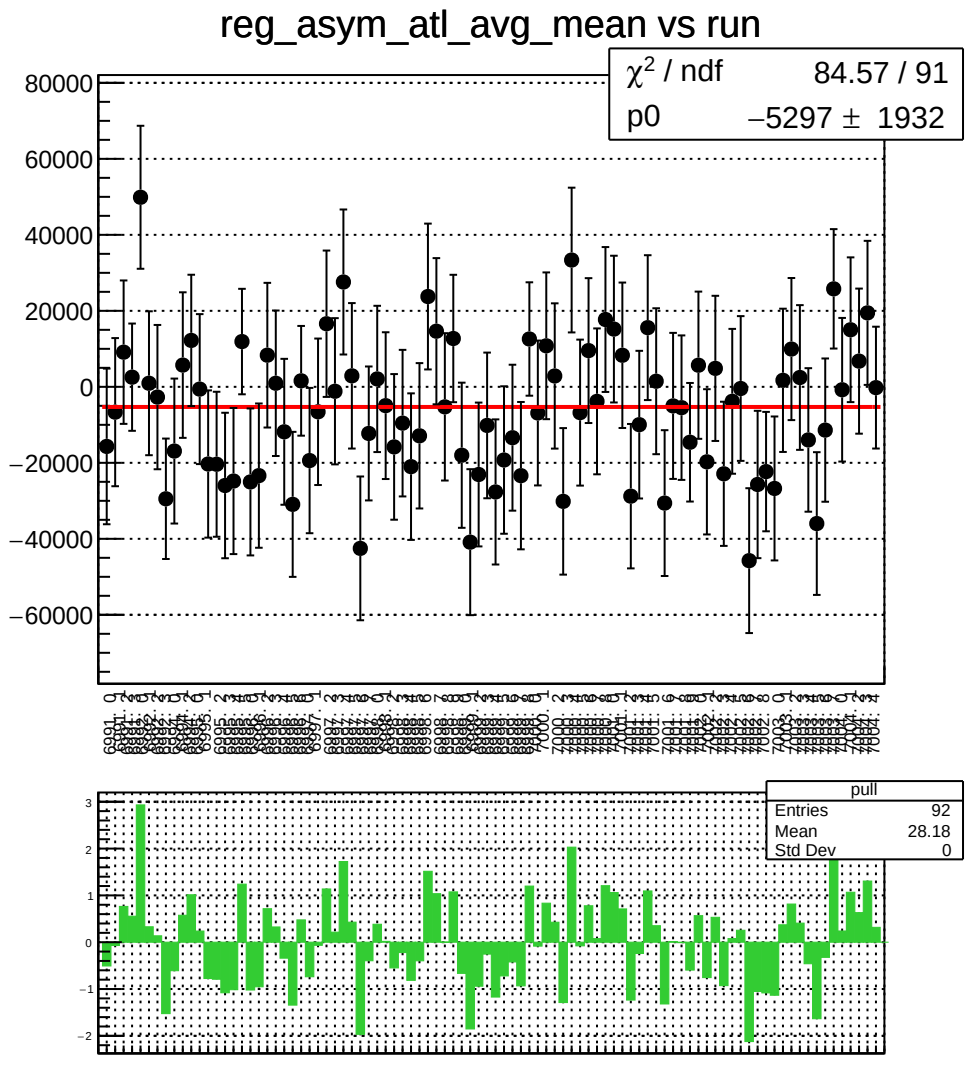

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.8 / 91
p0 −0.7197 ± 0.6501
20
10
0
−10
−20
pull
Entries 92
Mean −627.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.008732
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

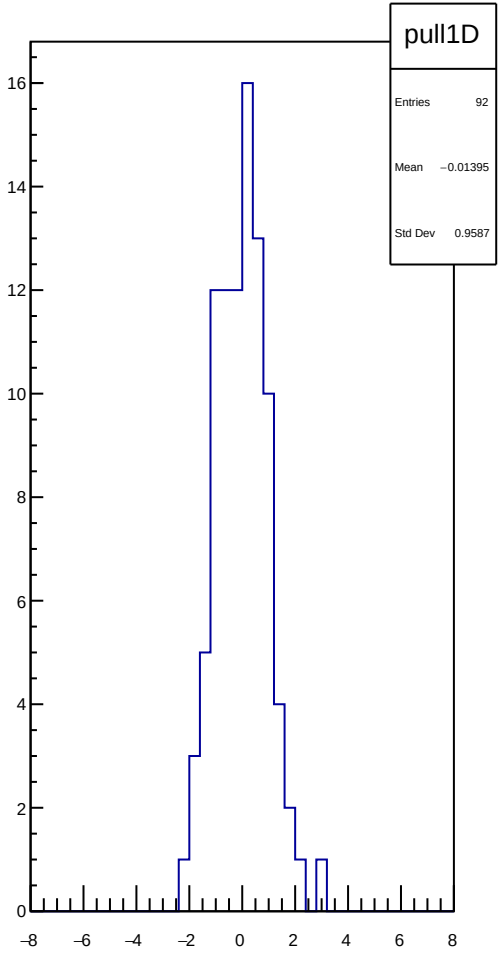

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.813e+04 / 91
p0 607.6 ± 0.4597
1000
900
800
700
600
500

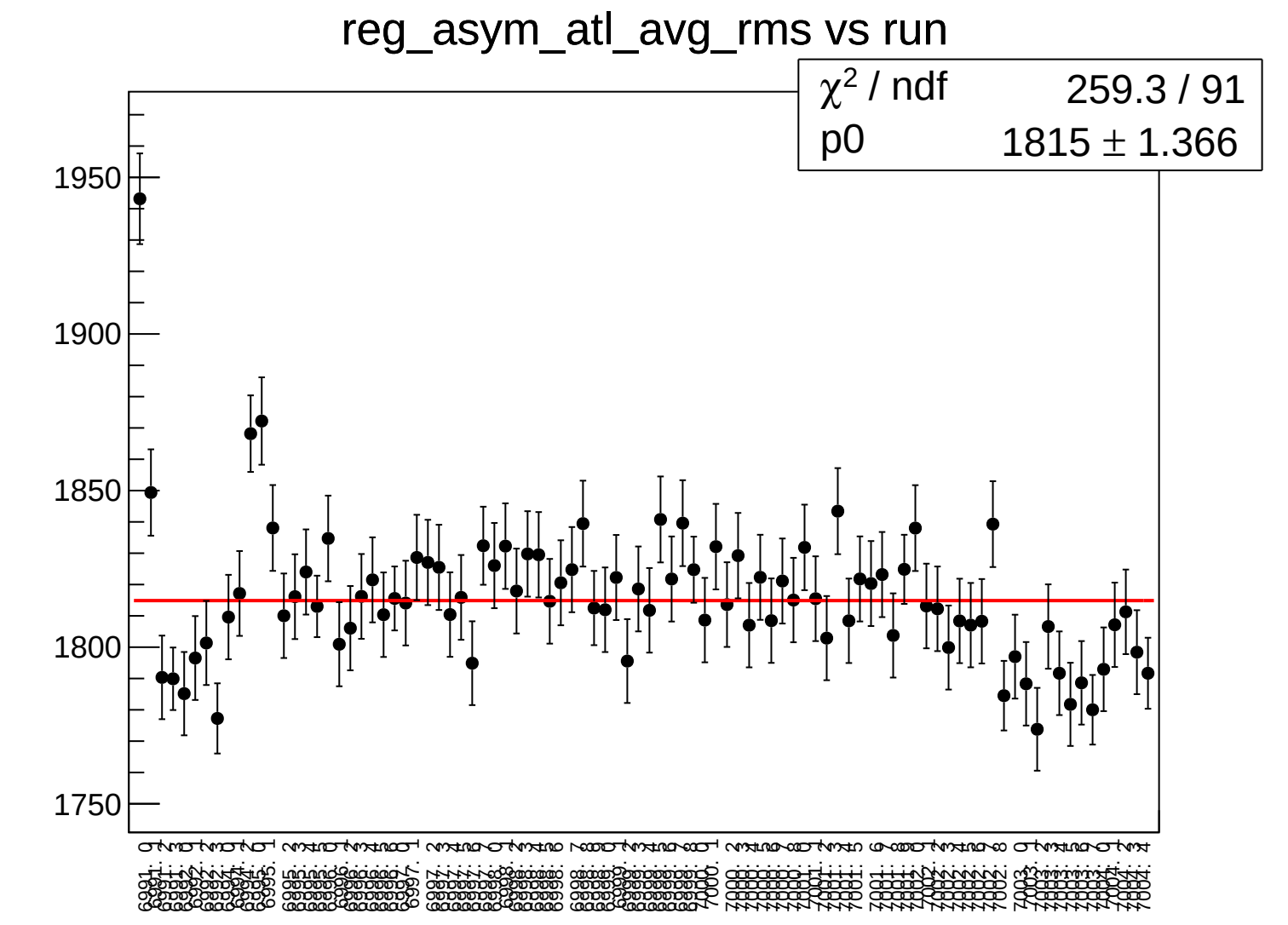

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.74 / 91
p0 2.906e−13 ± 1.297e−13
pull
Entries 92
Mean 152.2
Std Dev 0

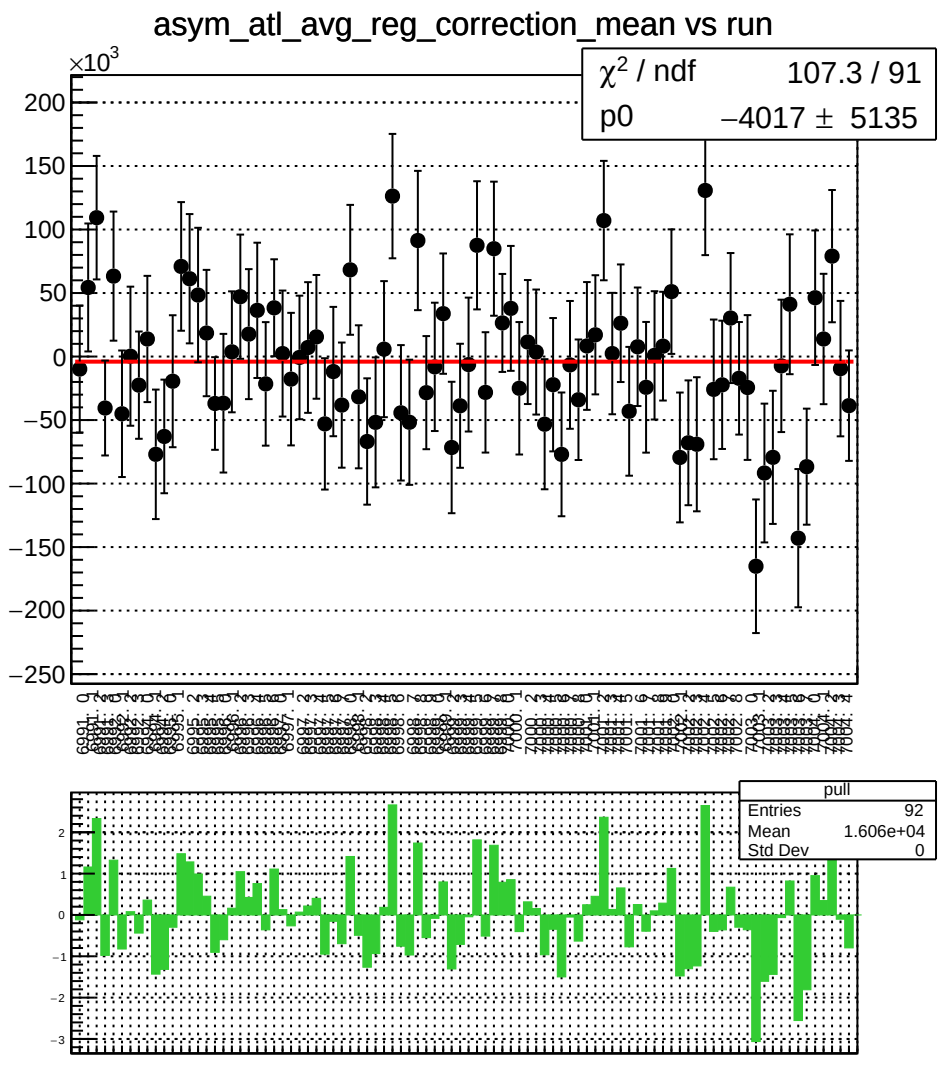

pull1D
Entries 92
Mean 0.02661
Std Dev 0.965

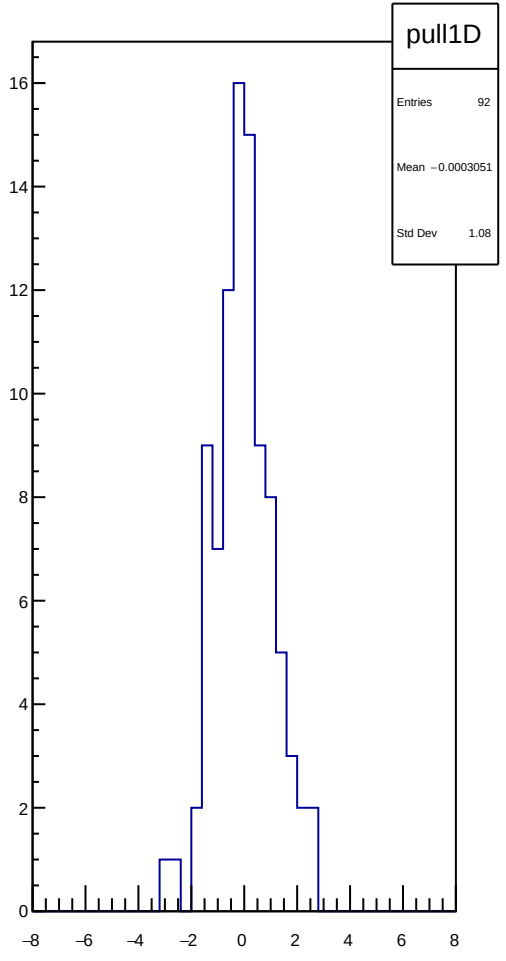

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.073e+05 / 91
p0 9.868e−11 ± 9.17e−14
0.6
0.5
0.4
0.3
0.2
0.1

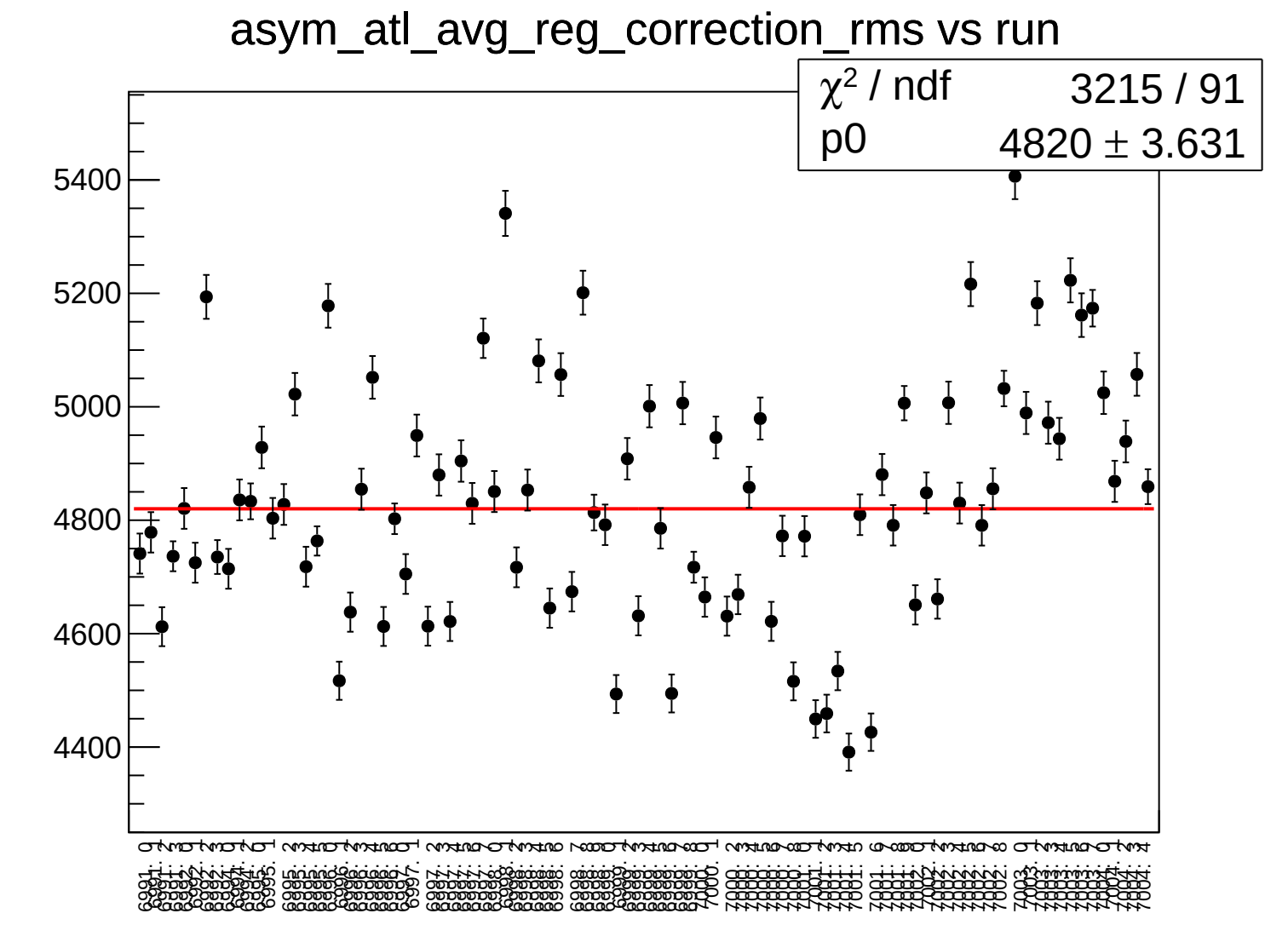

reg_asym_atl_avg_mean vs run
χ² / ndf 84.57 / 91
p0 −5297 ± 1932
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 28.18
Std Dev 0
3
2
1
0
−1
−2

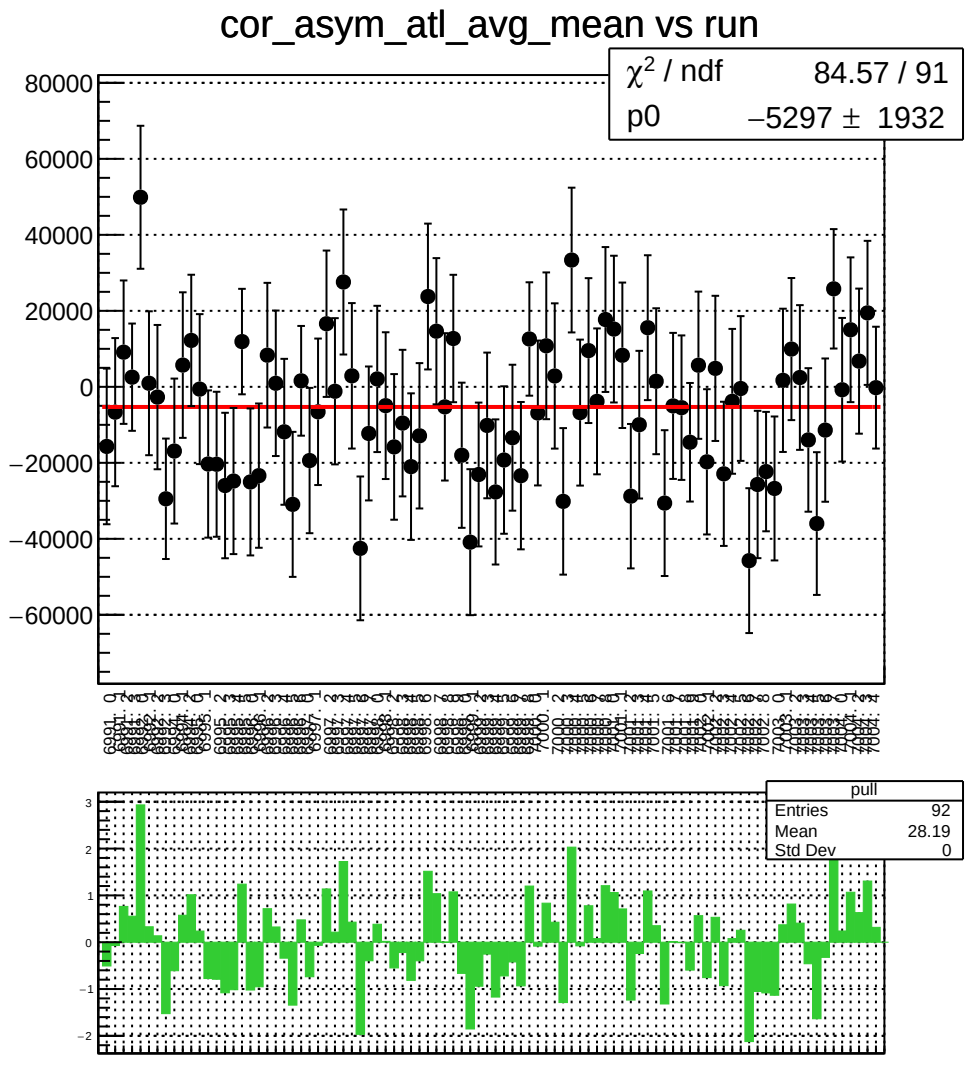

pull1D
Entries 92
Mean −0.01395
Std Dev 0.9587
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

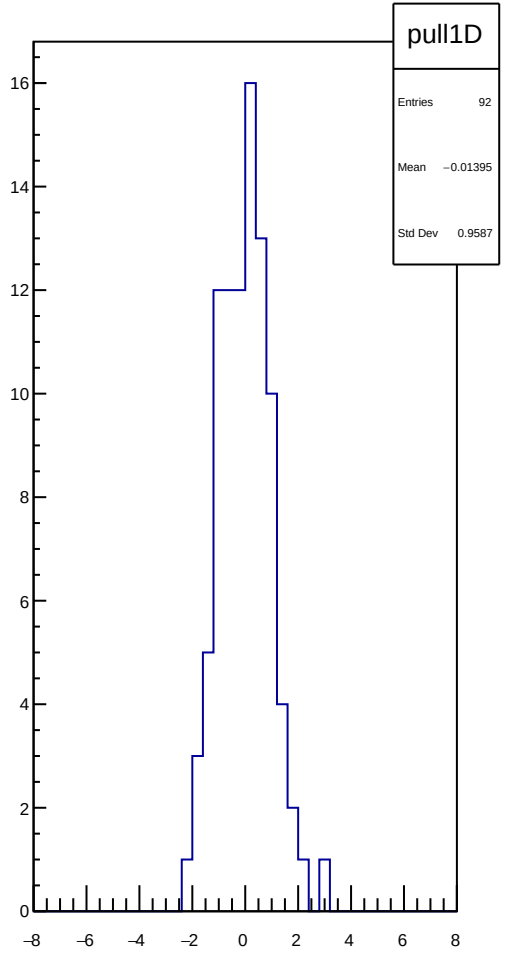

reg_asym_atl_avg_rms vs run
χ^2 / ndf 259.3 / 91
p0 1815 ± 1.366
1950
1900
1850
1800
1750

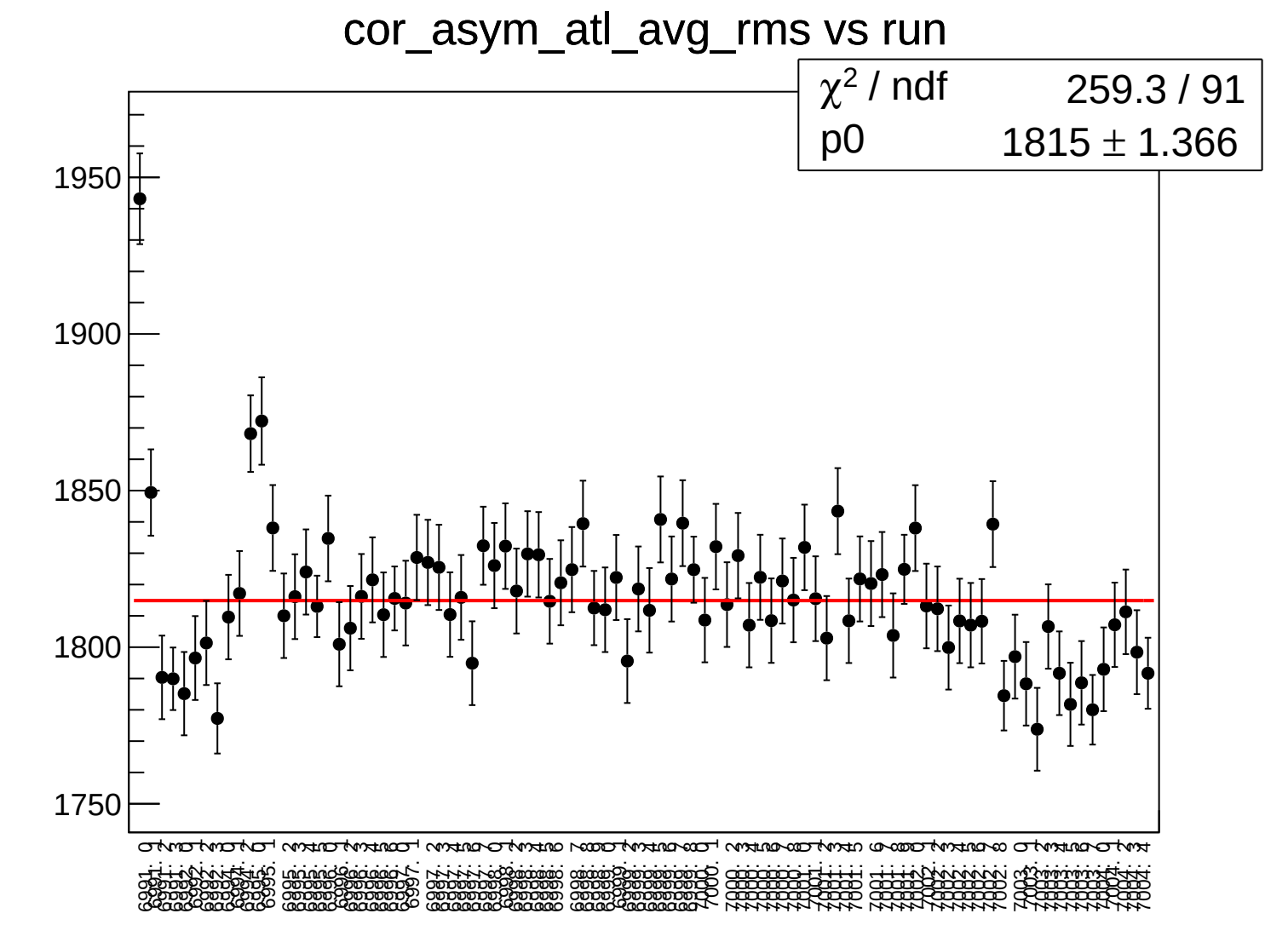

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 −4017 ± 5135
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 92
Mean 1.606e+04
Std Dev 0
2
1
0
−1
−2
−3

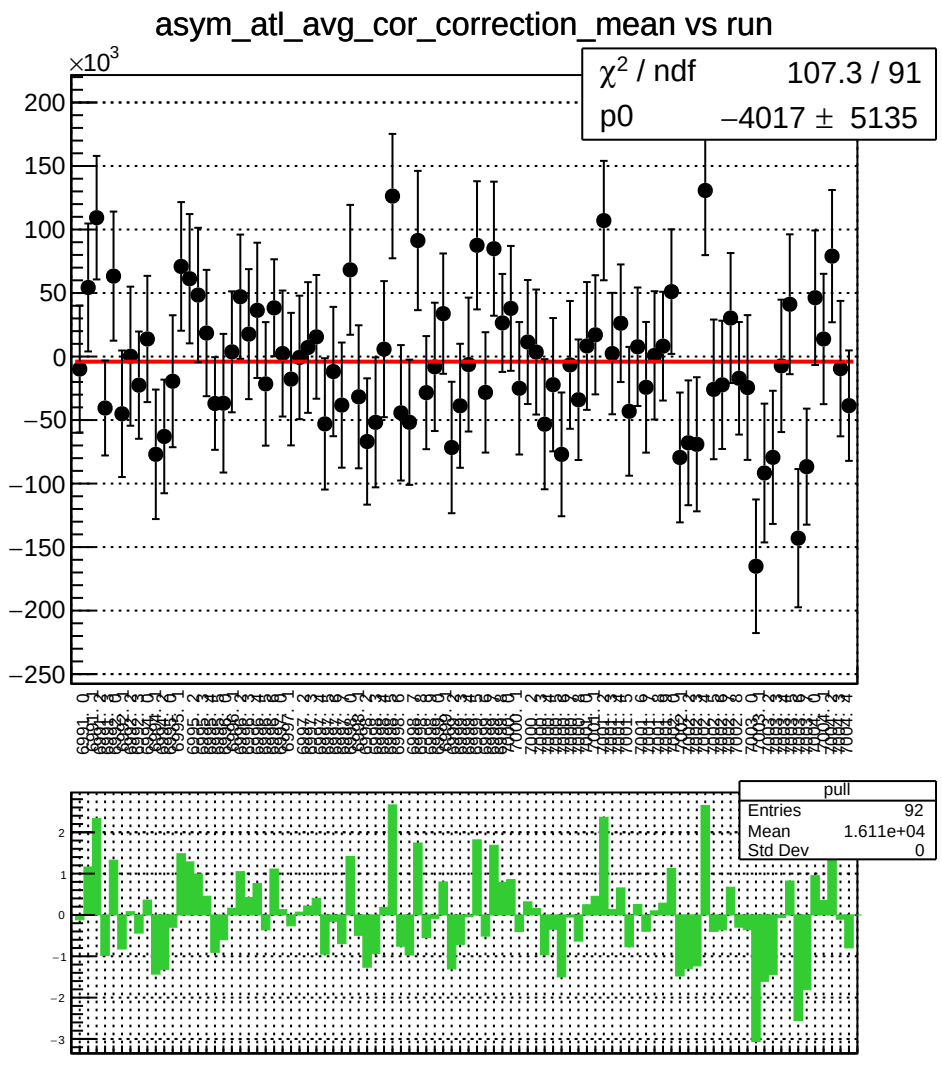

pull1D
Entries 92
Mean −0.0003051
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

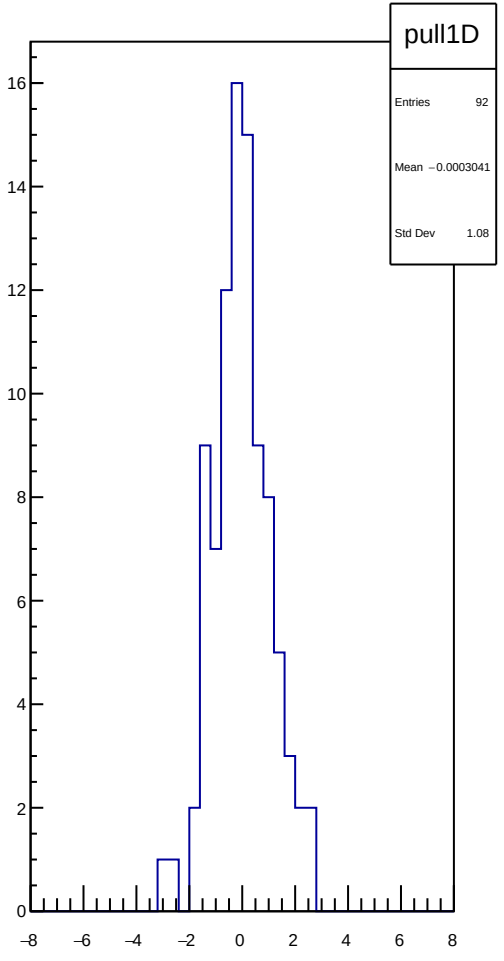

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 3215 / 91
p0 4820 ± 3.631
5400
5200
5000
4800
4600
4400

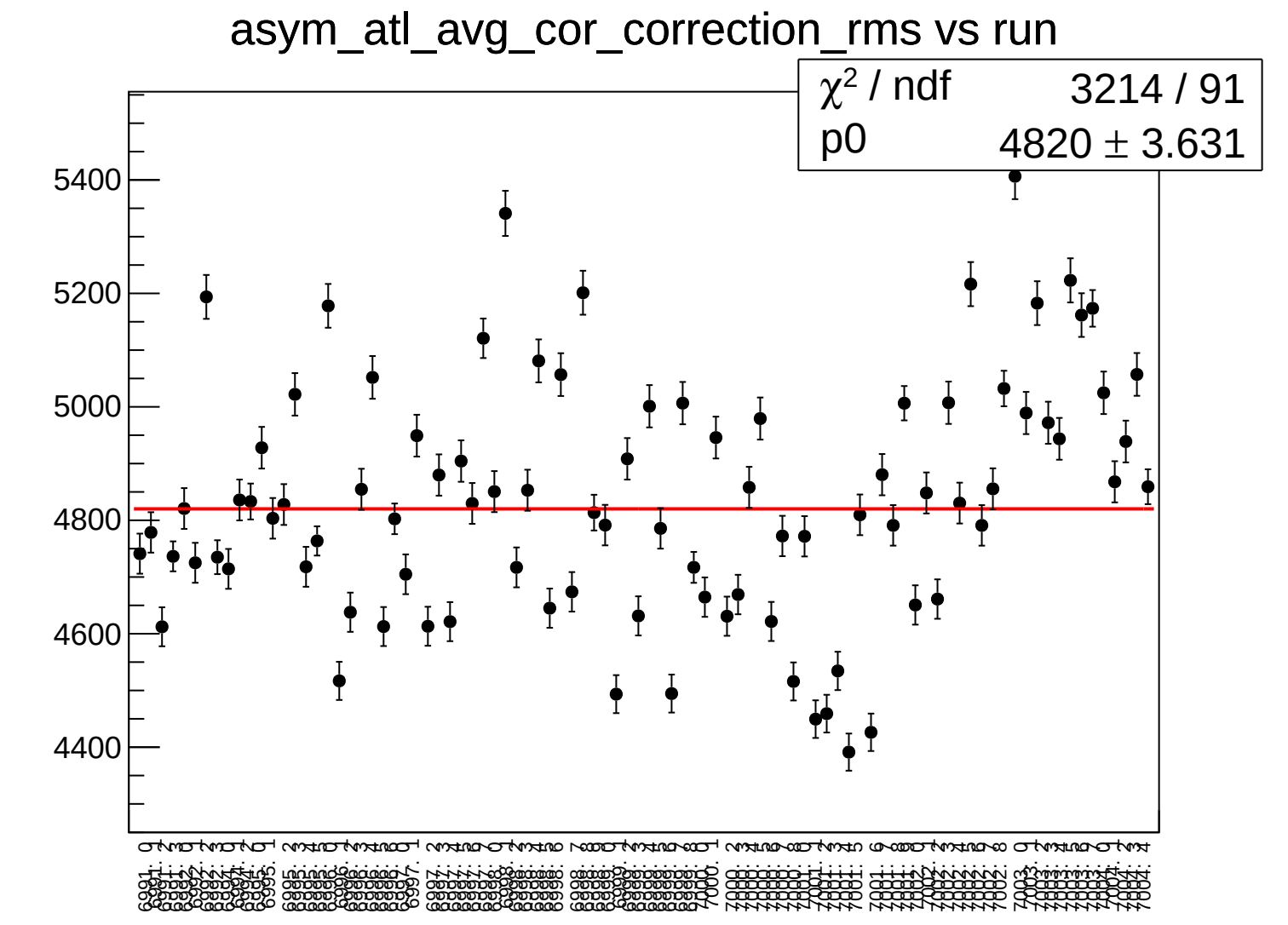

cor_asym_atl_avg_mean vs run
χ² / ndf 84.57 / 91
p0 −5297 ± 1932
pull
Entries 92
Mean 28.19
Std Dev 0

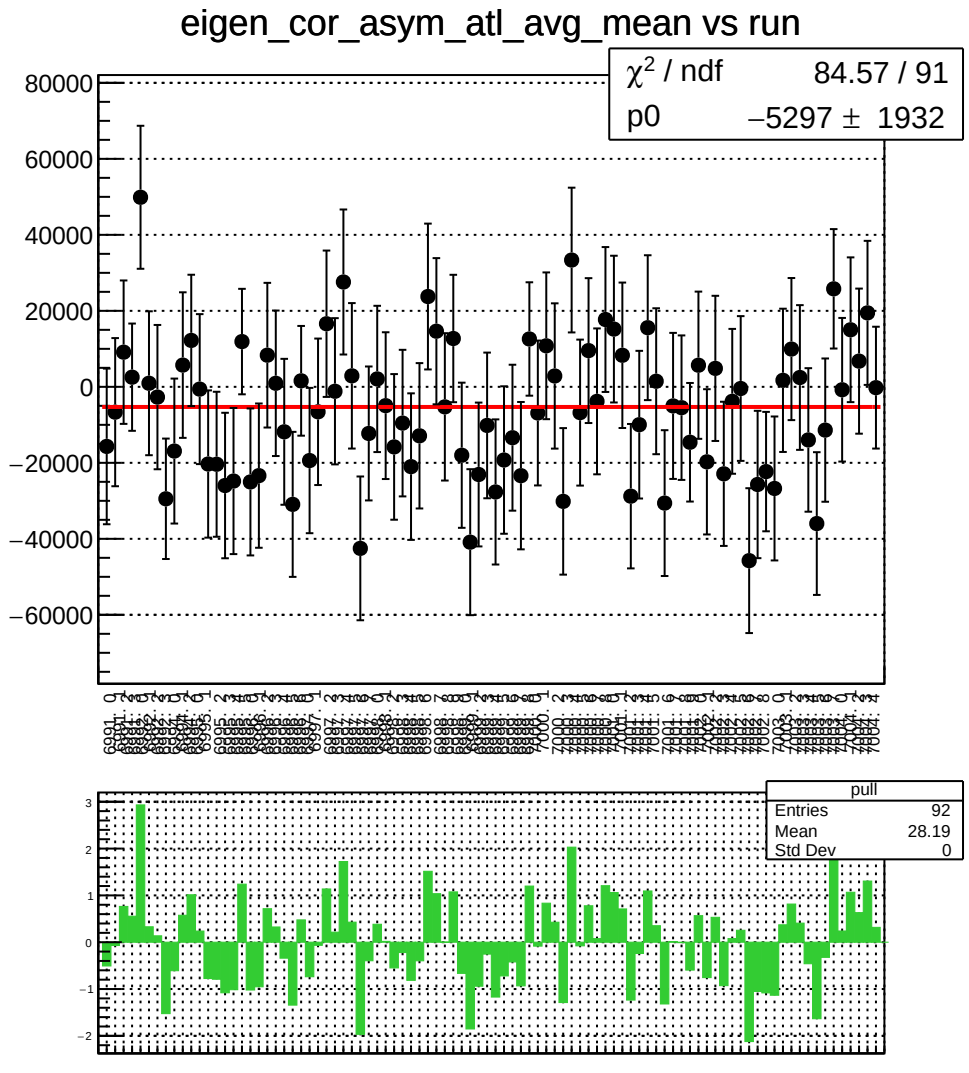

pull1D
Entries 92
Mean −0.01395
Std Dev 0.9587

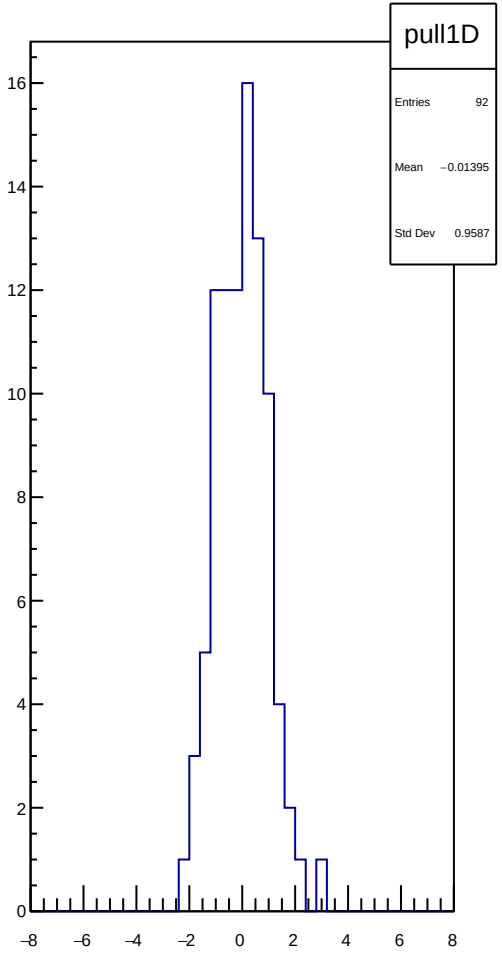

cor_asym_atl_avg_rms vs run
χ² / ndf 259.3 / 91
p0 1815 ± 1.366
1950
1900
1850
1800
1750

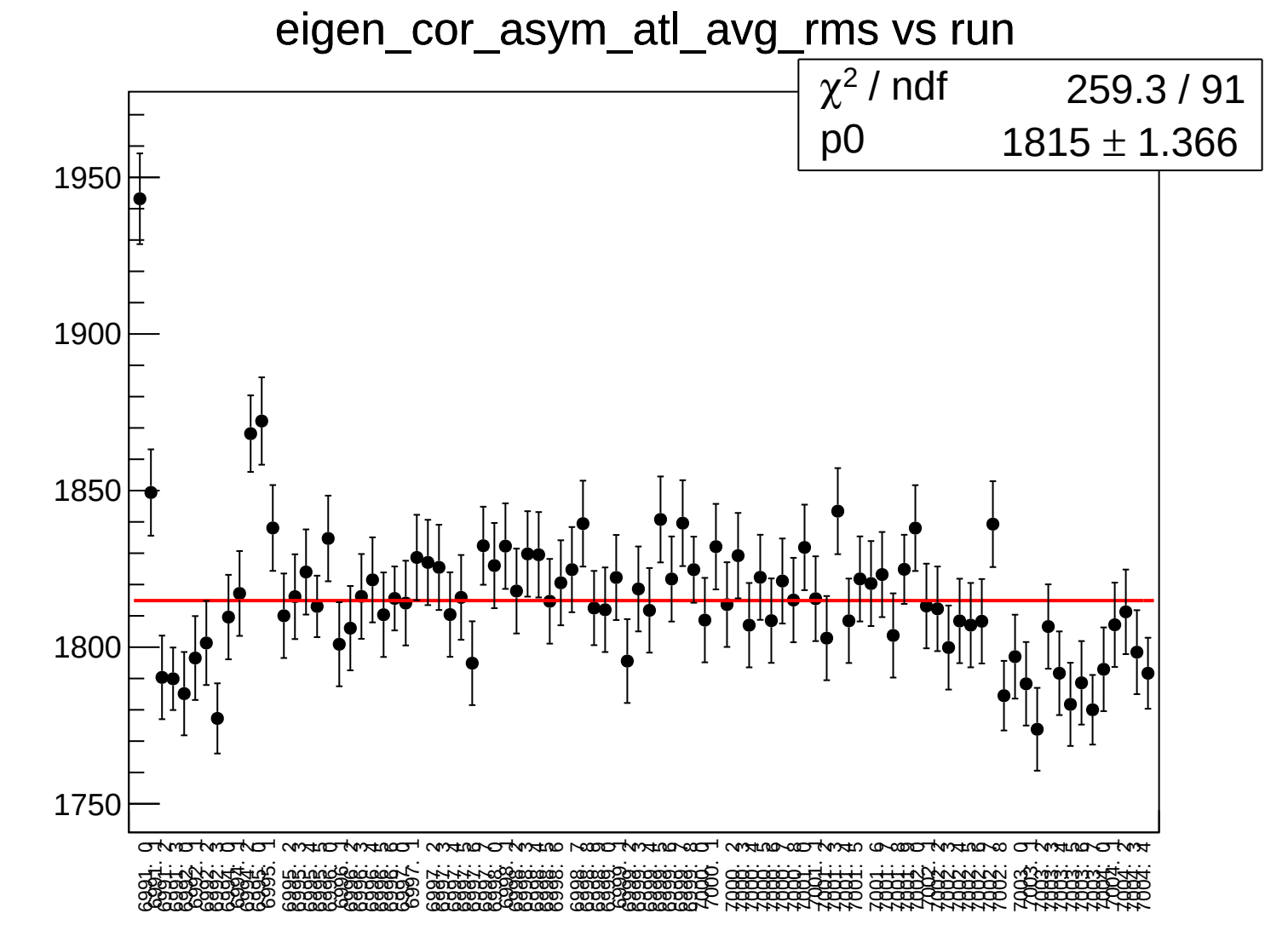

asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.3 / 91
p0 −4017 ± 5135
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 92
Mean 1.611e+04
Std Dev 0
2
1
0
−1
−2
−3

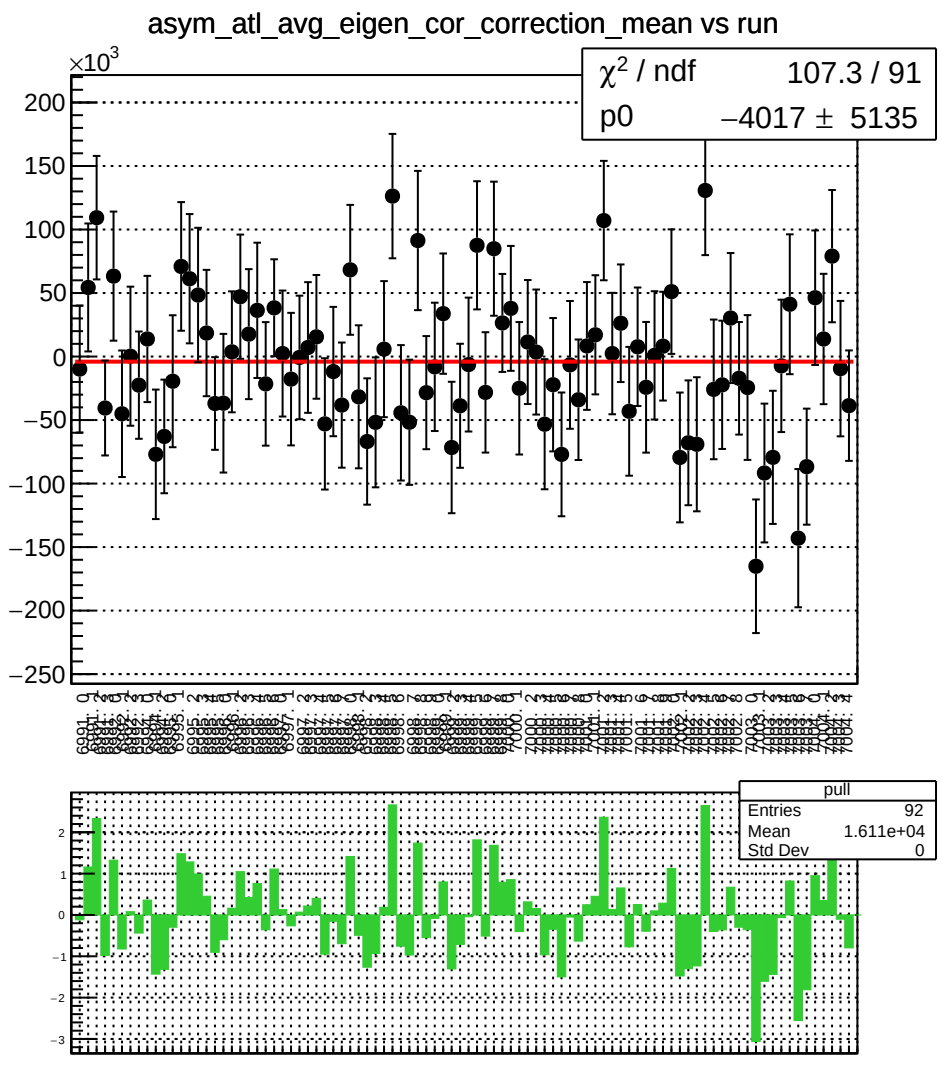

pull1D
Entries 92
Mean −0.0003041
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

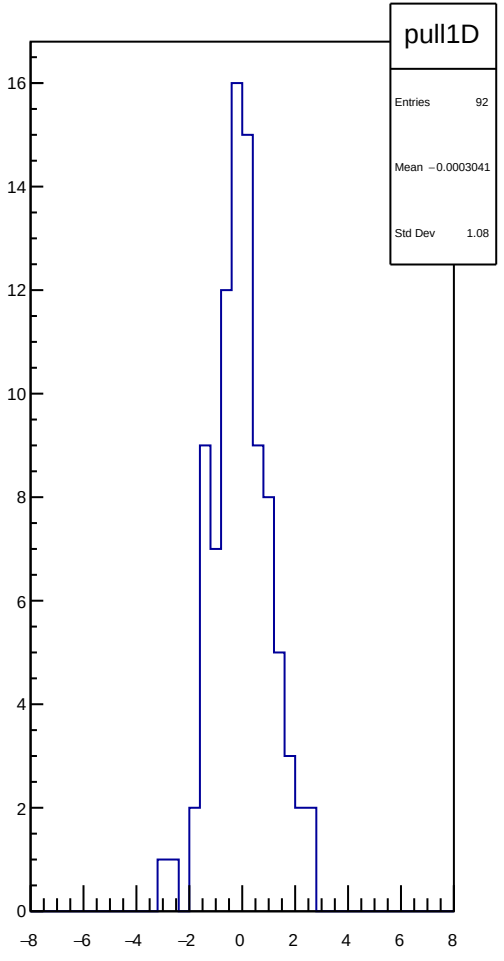

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 3214 / 91
p0 4820 ± 3.631
5400
5200
5000
4800
4600
4400

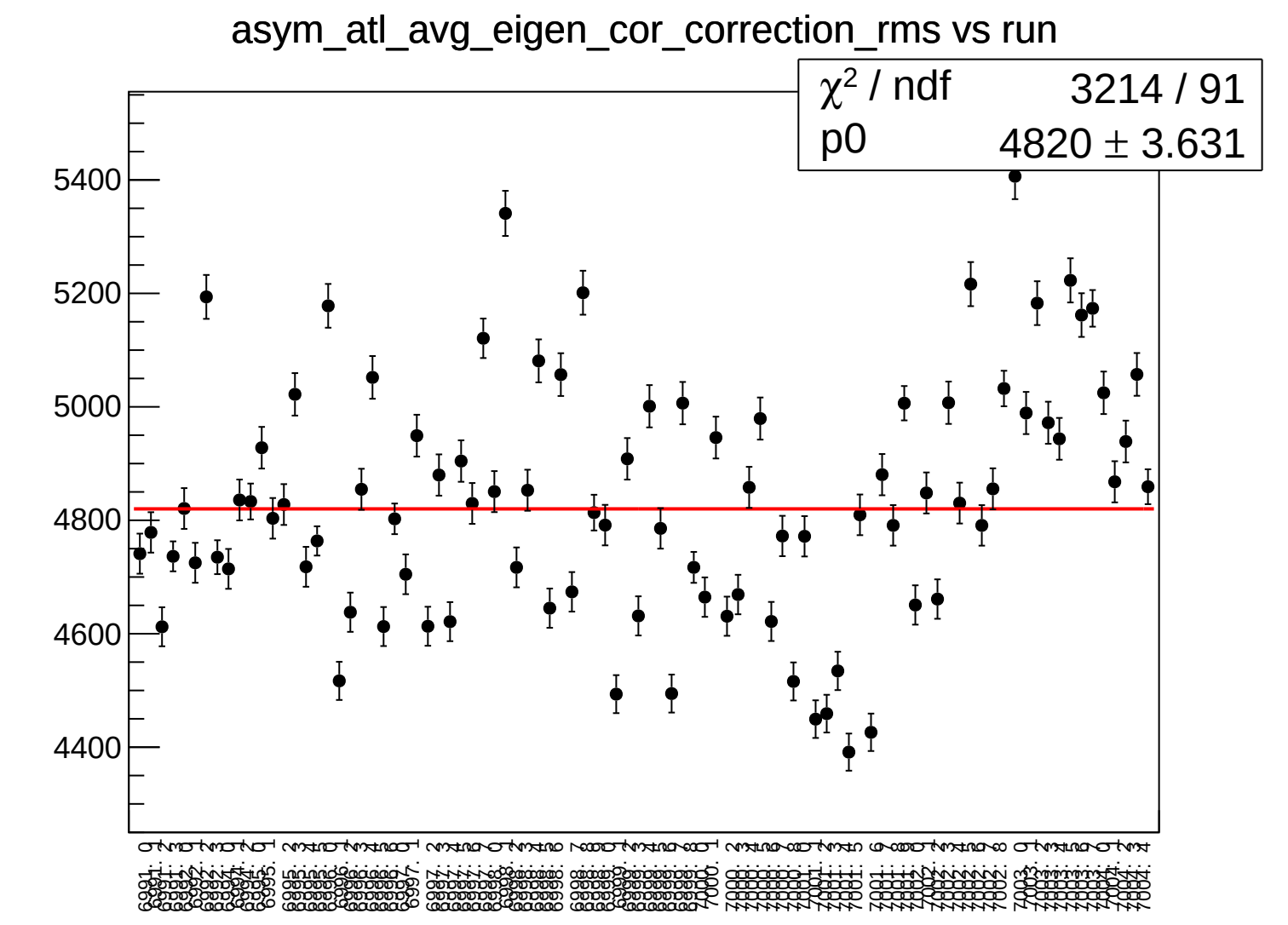

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 84.57 / 91
p0 −5297 ± 1932
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 28.19
Std Dev 0
3
2
1
0
−1
−2

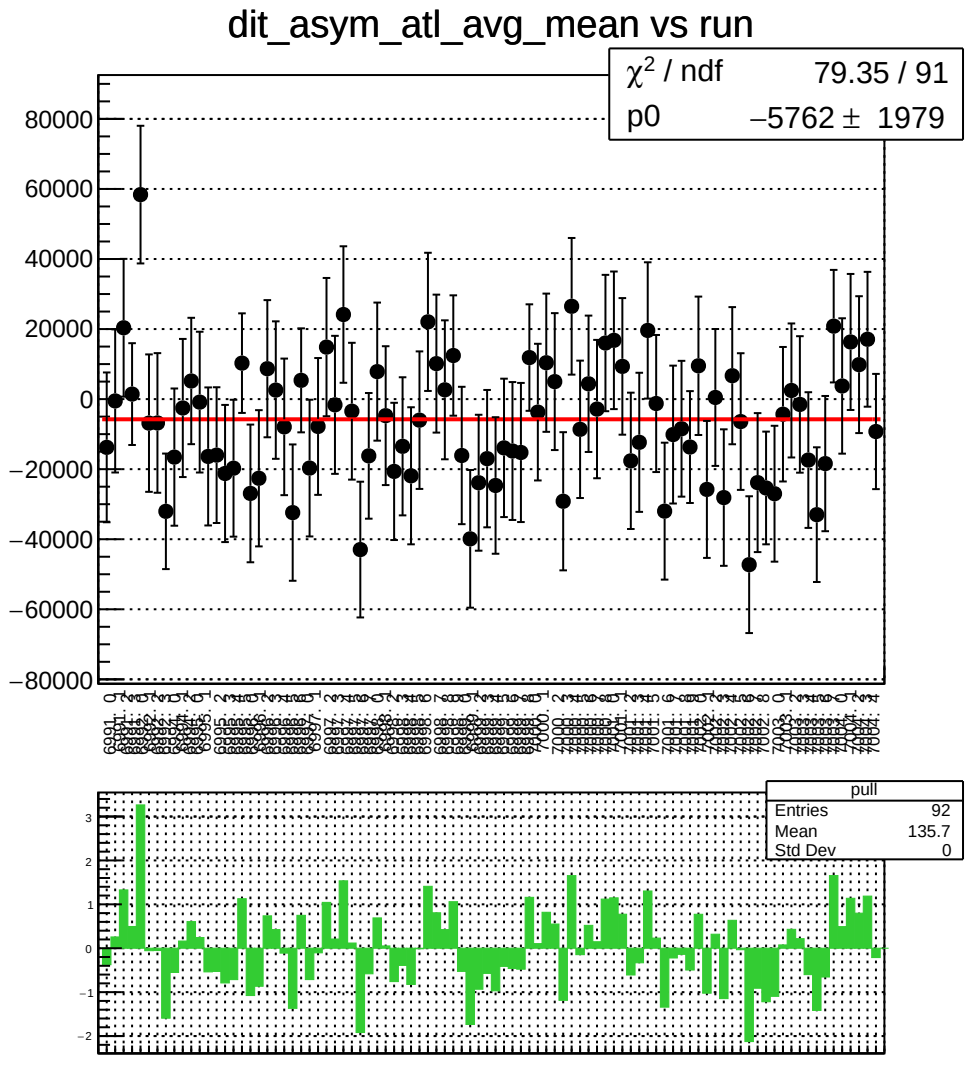

pull1D
Entries 92
Mean −0.01395
Std Dev 0.9587
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

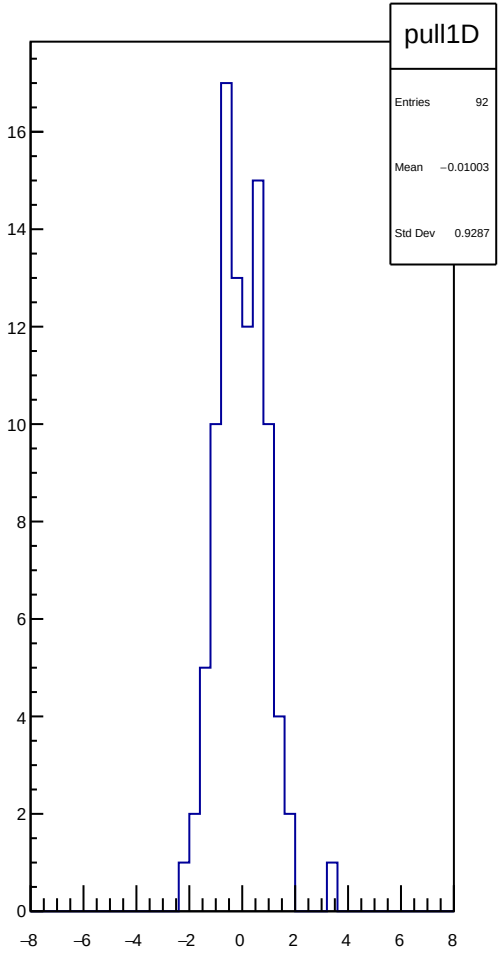

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 259.3 / 91
p0 1815 ± 1.366
1950
1900
1850
1800
1750

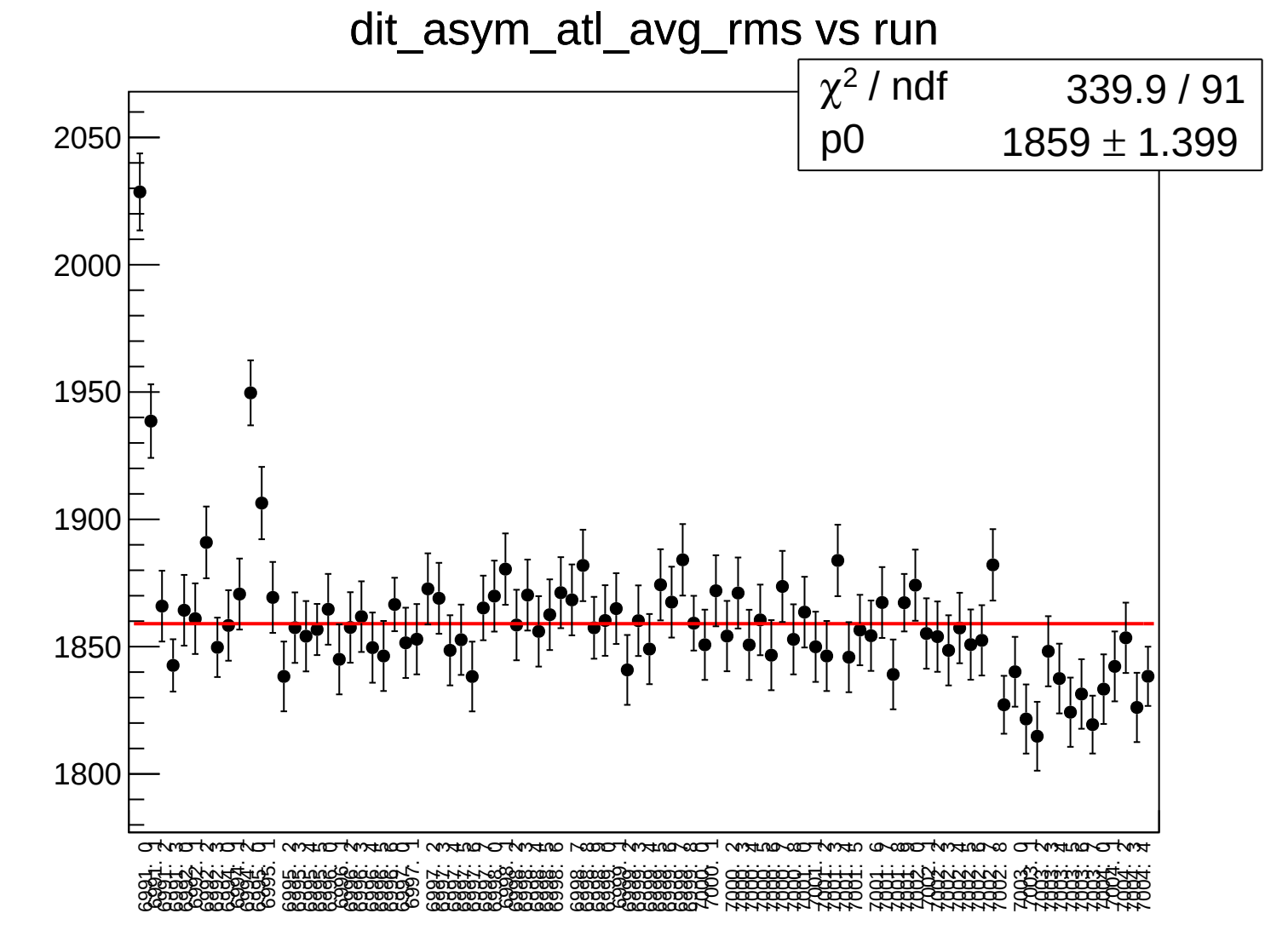

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 −4017 ± 5135
pull
Entries 92
Mean 1.611e+04
Std Dev 0

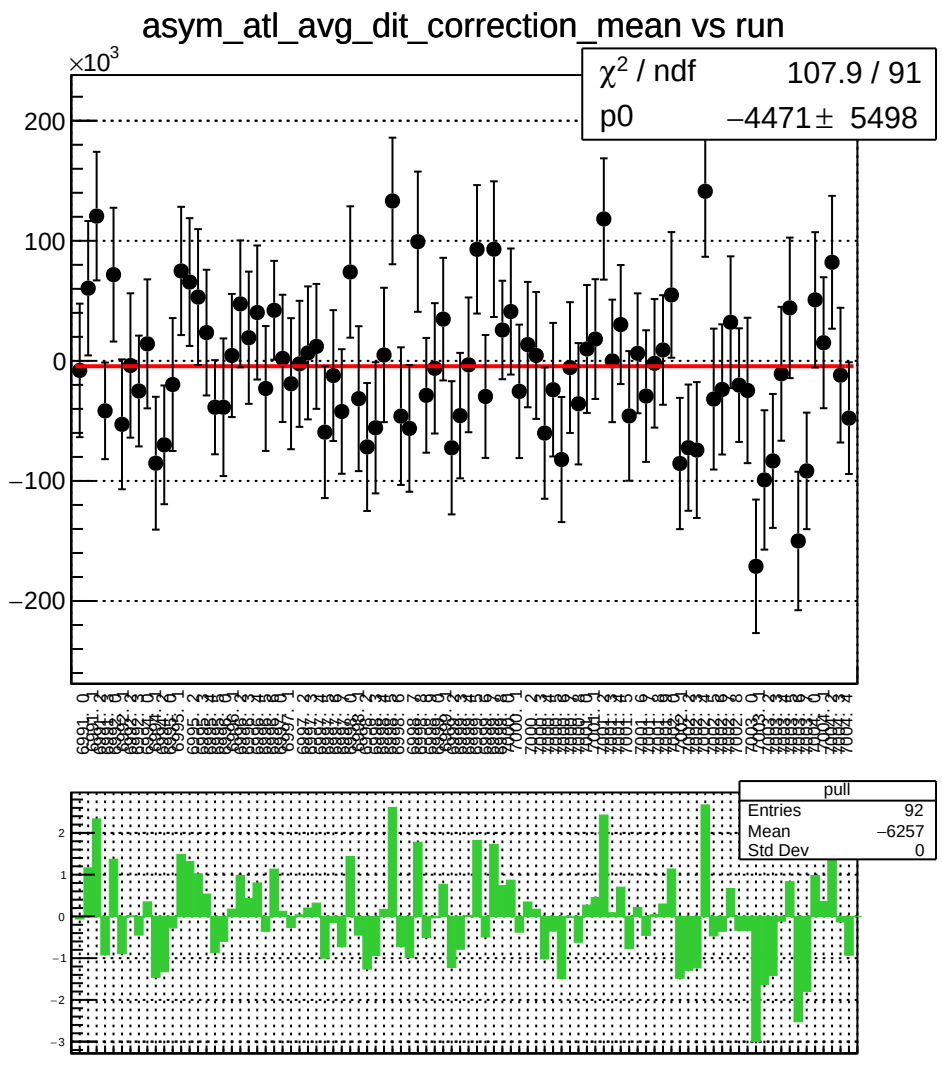

pull1D
Entries 92
Mean −0.0003041
Std Dev 1.08

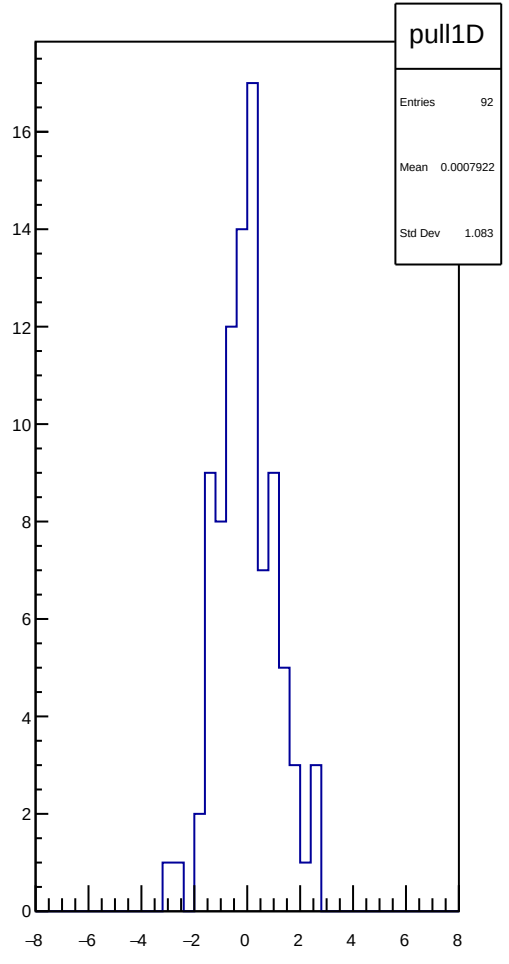

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 3214 / 91
p0 4820 ± 3.631
5400
5200
5000
4800
4600
4400

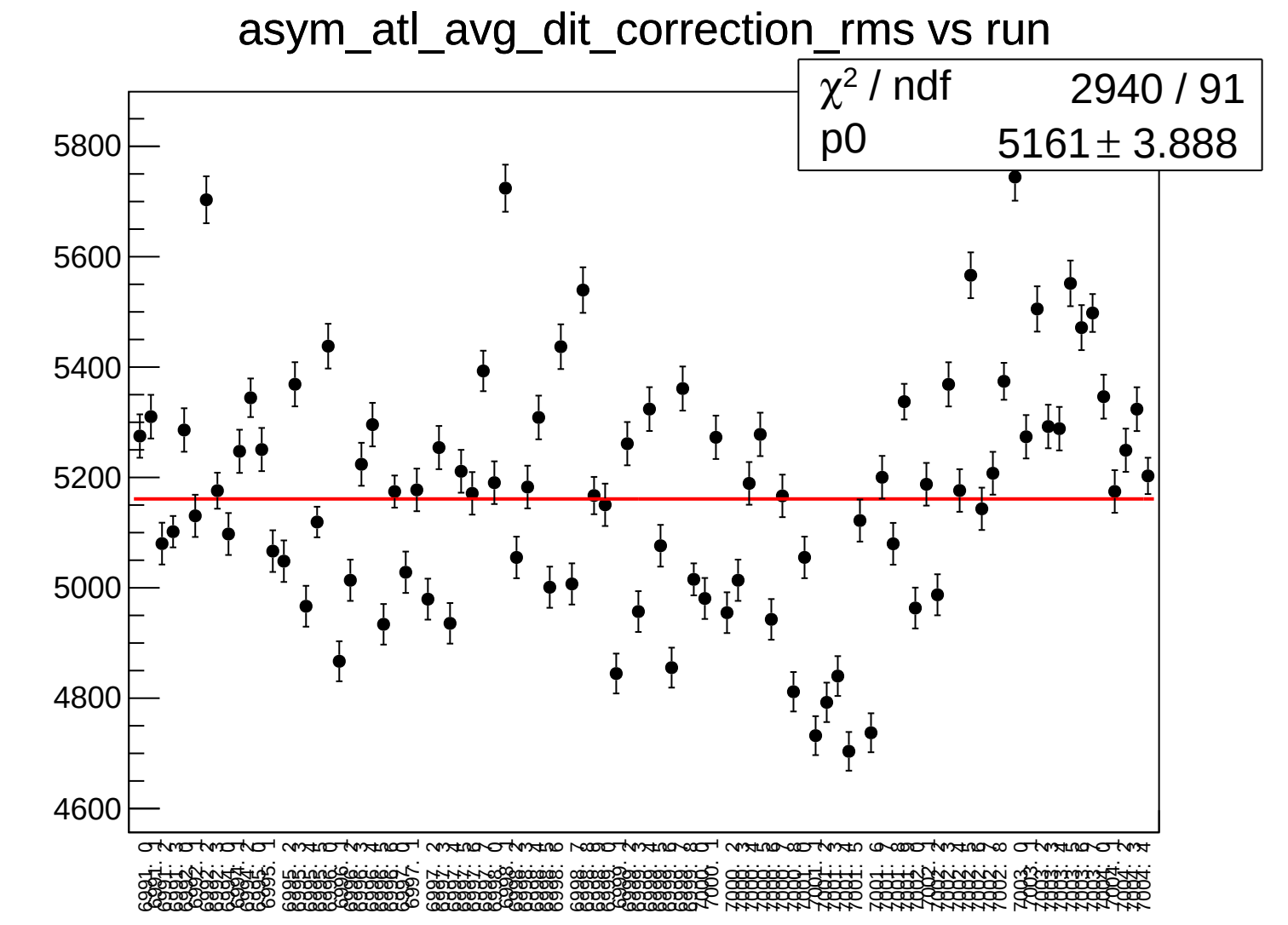

dit_asym_atl_avg_mean vs run
χ² / ndf 79.35 / 91
p0 −5762 ± 1979
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 135.7
Std Dev 0
3
2
1
0
−1
−2

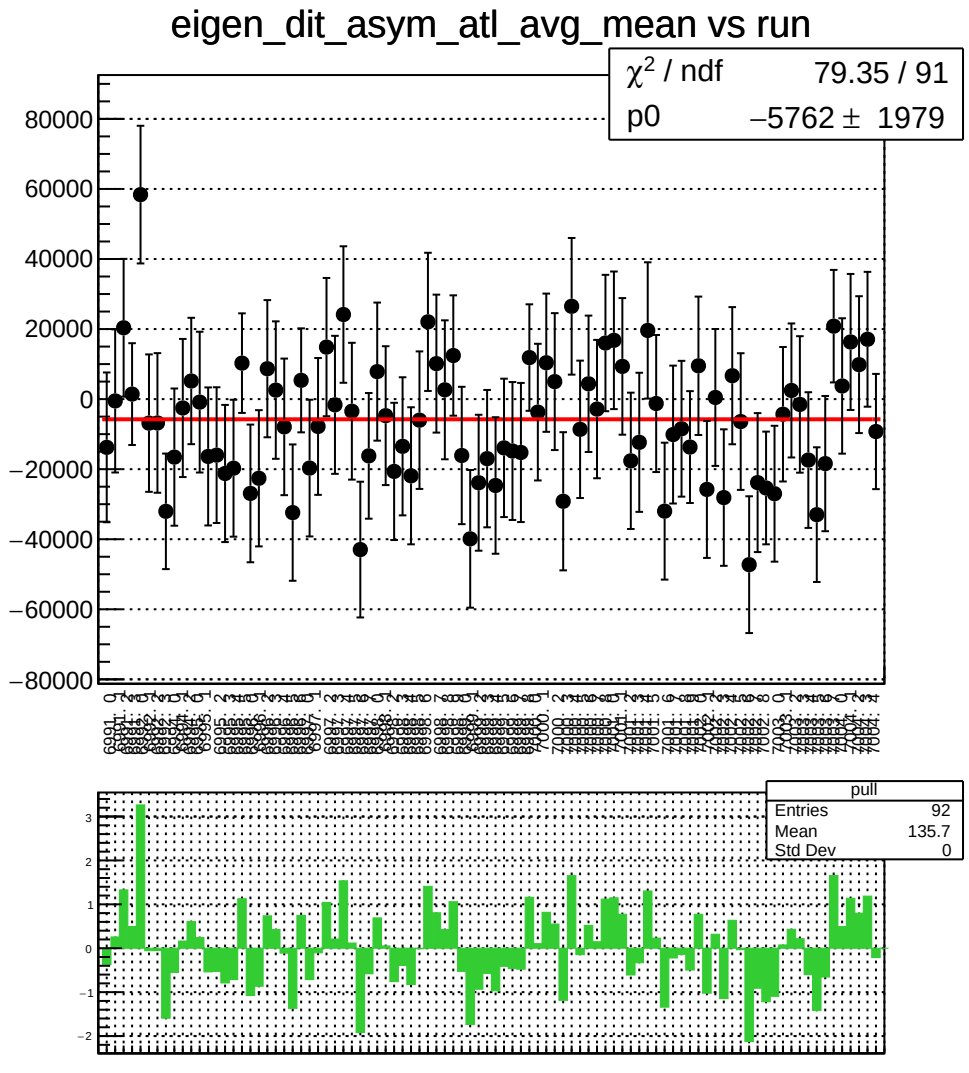

pull1D
Entries 92
Mean −0.01003
Std Dev 0.9287
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

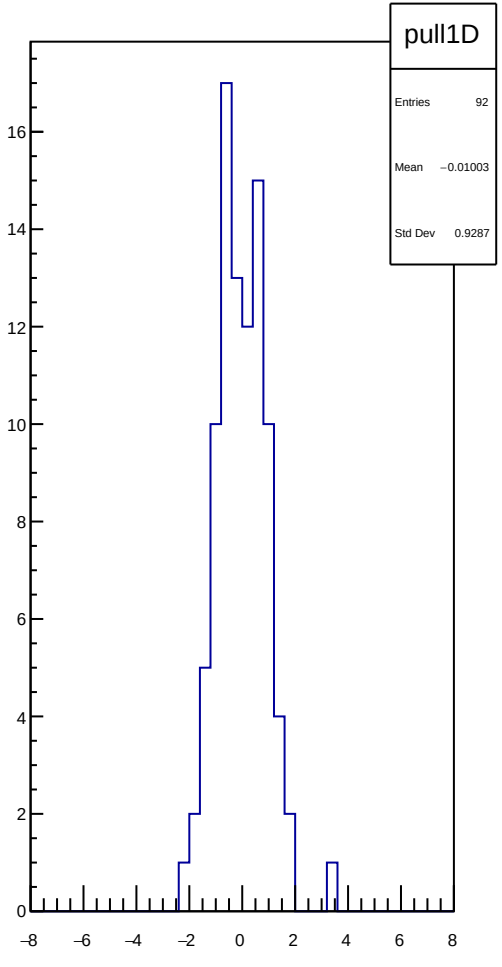

dit_asym_atl_avg_rms vs run
χ² / ndf 339.9 / 91
p0 1859 ± 1.399
2050
2000
1950
1900
1850
1800

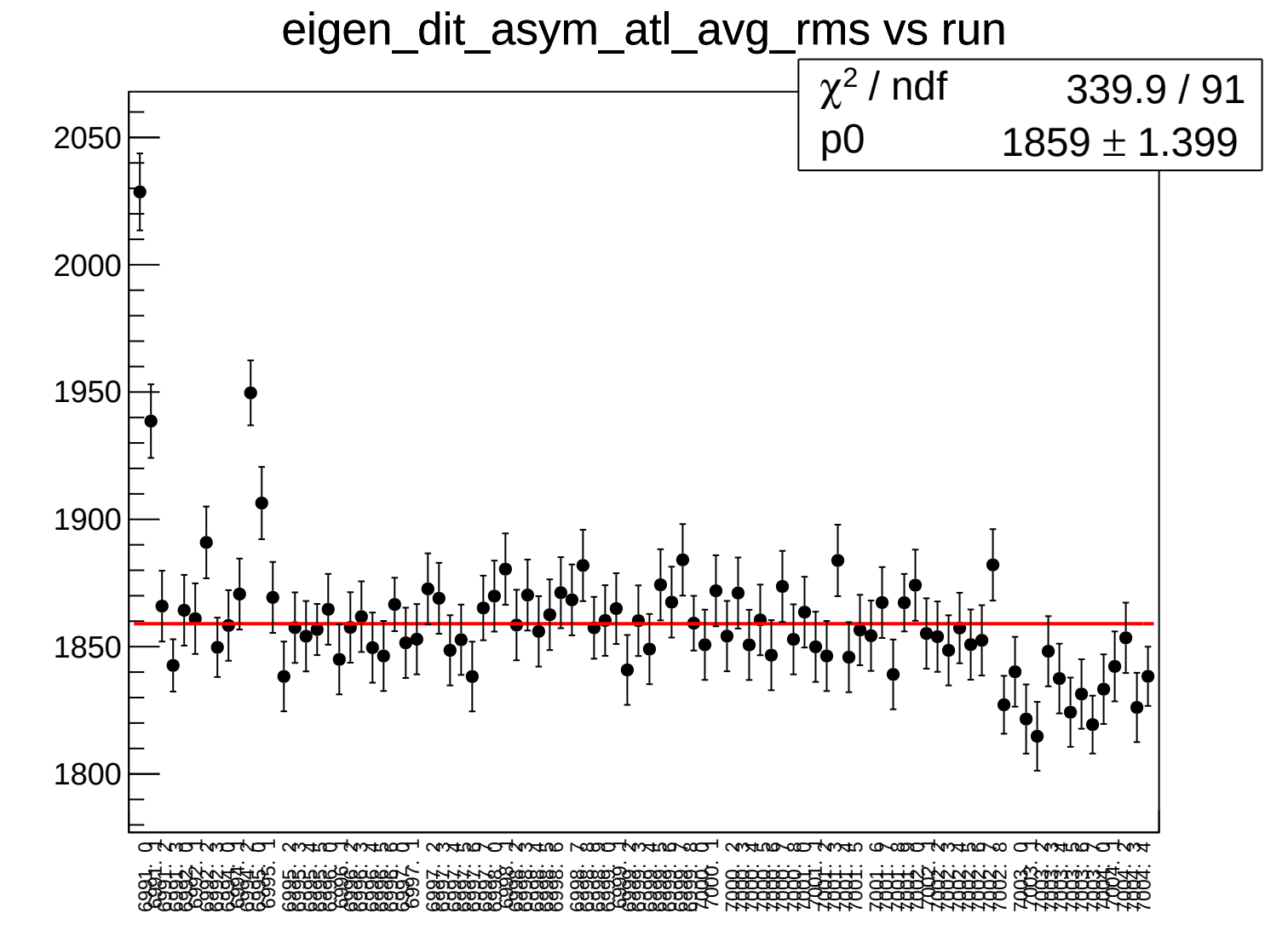

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 91
p0 −4471 ± 5498
200
100
0
−100
−200
pull
Entries 92
Mean −6257
Std Dev 0
2
1
0
−1
−2
−3

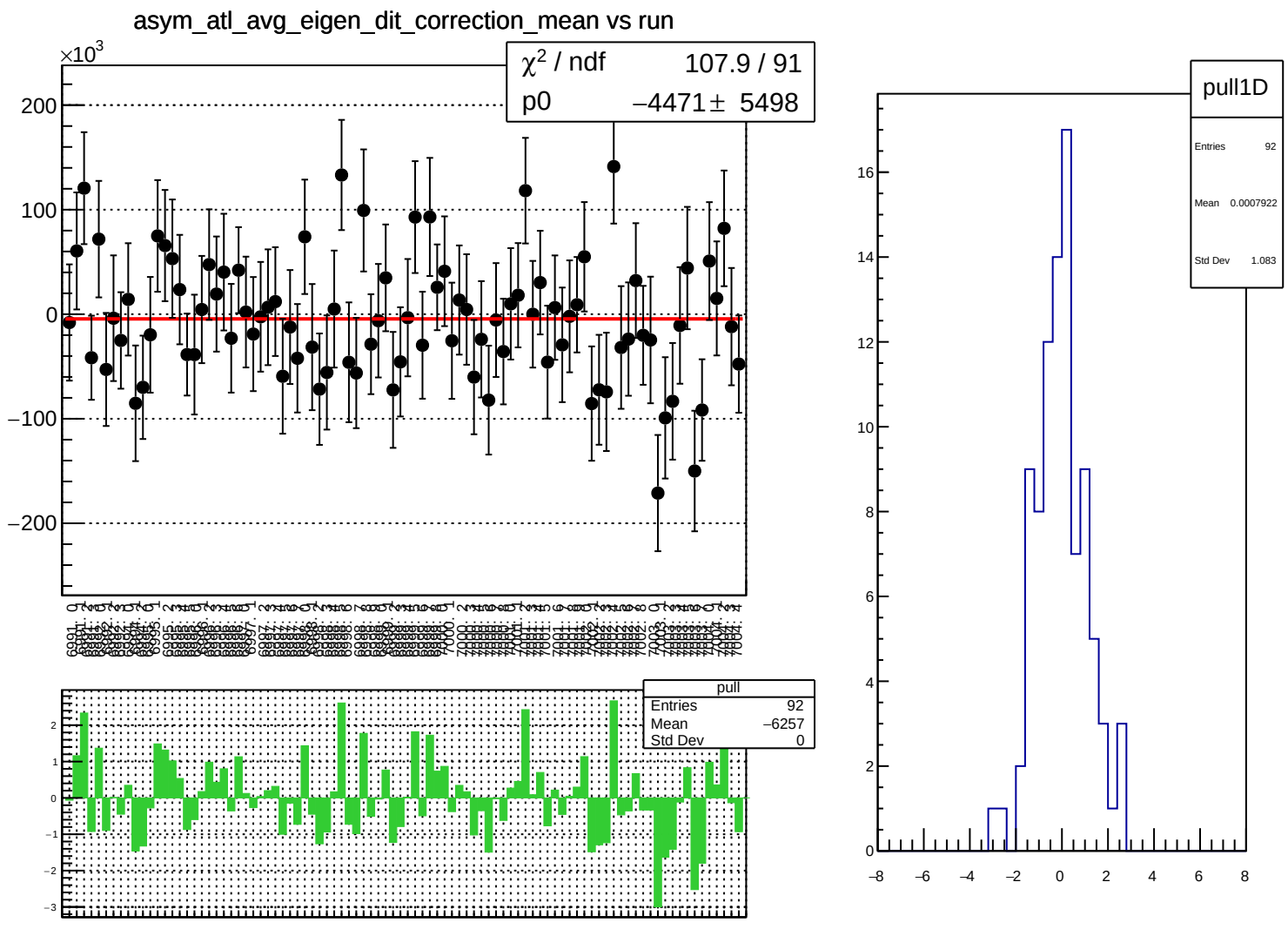

pull1D
Entries 92
Mean 0.0007922
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

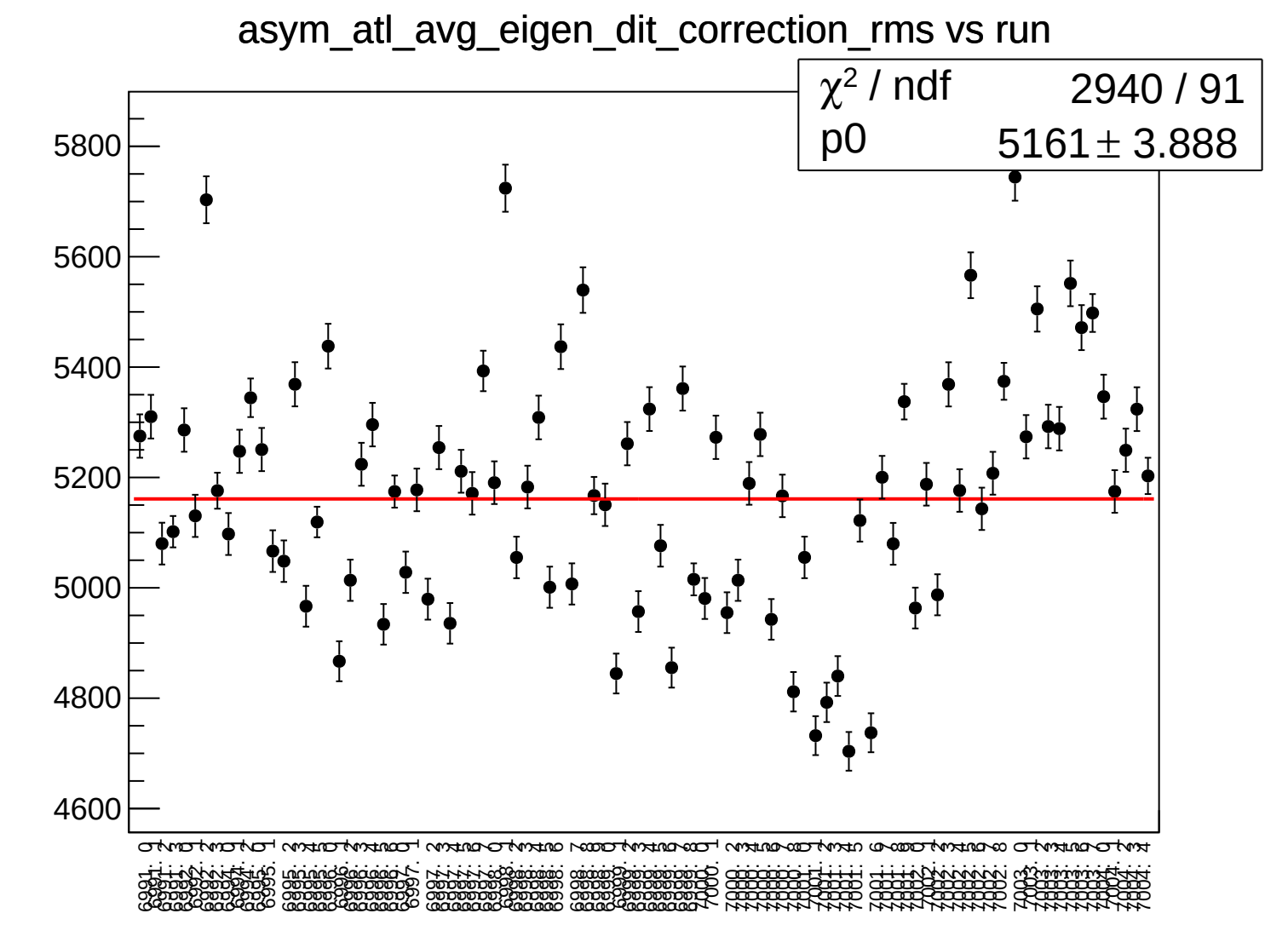

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 2940 / 91
p0 5161 ± 3.888
5800
5600
5400
5200
5000
4800
4600

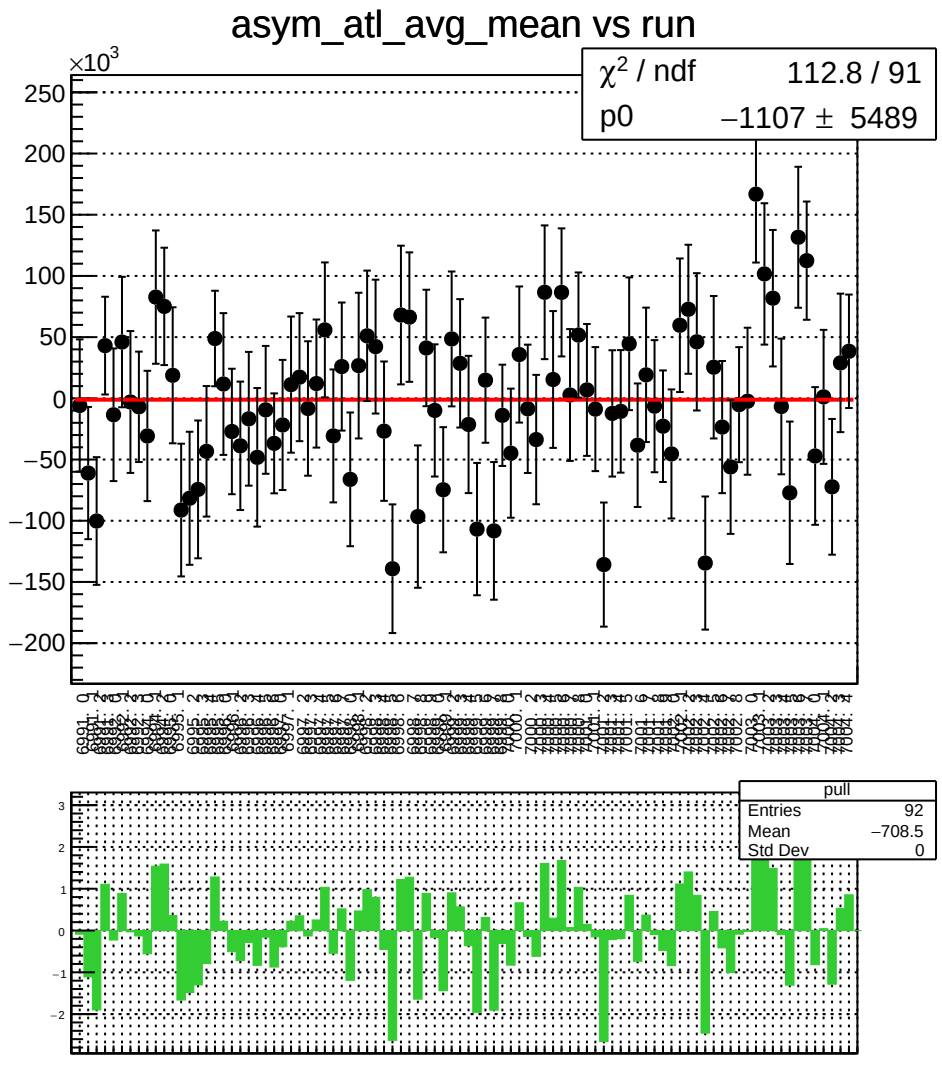

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 79.35 / 91
p0 −5762 ± 1979
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 135.7
Std Dev 0
3
2
1
0
−1
−2

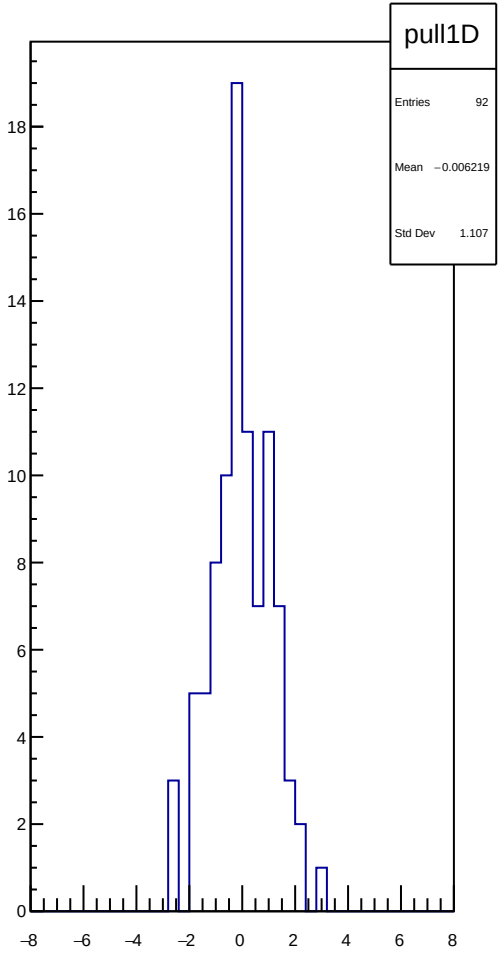

pull1D
Entries 92
Mean −0.01003
Std Dev 0.9287
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

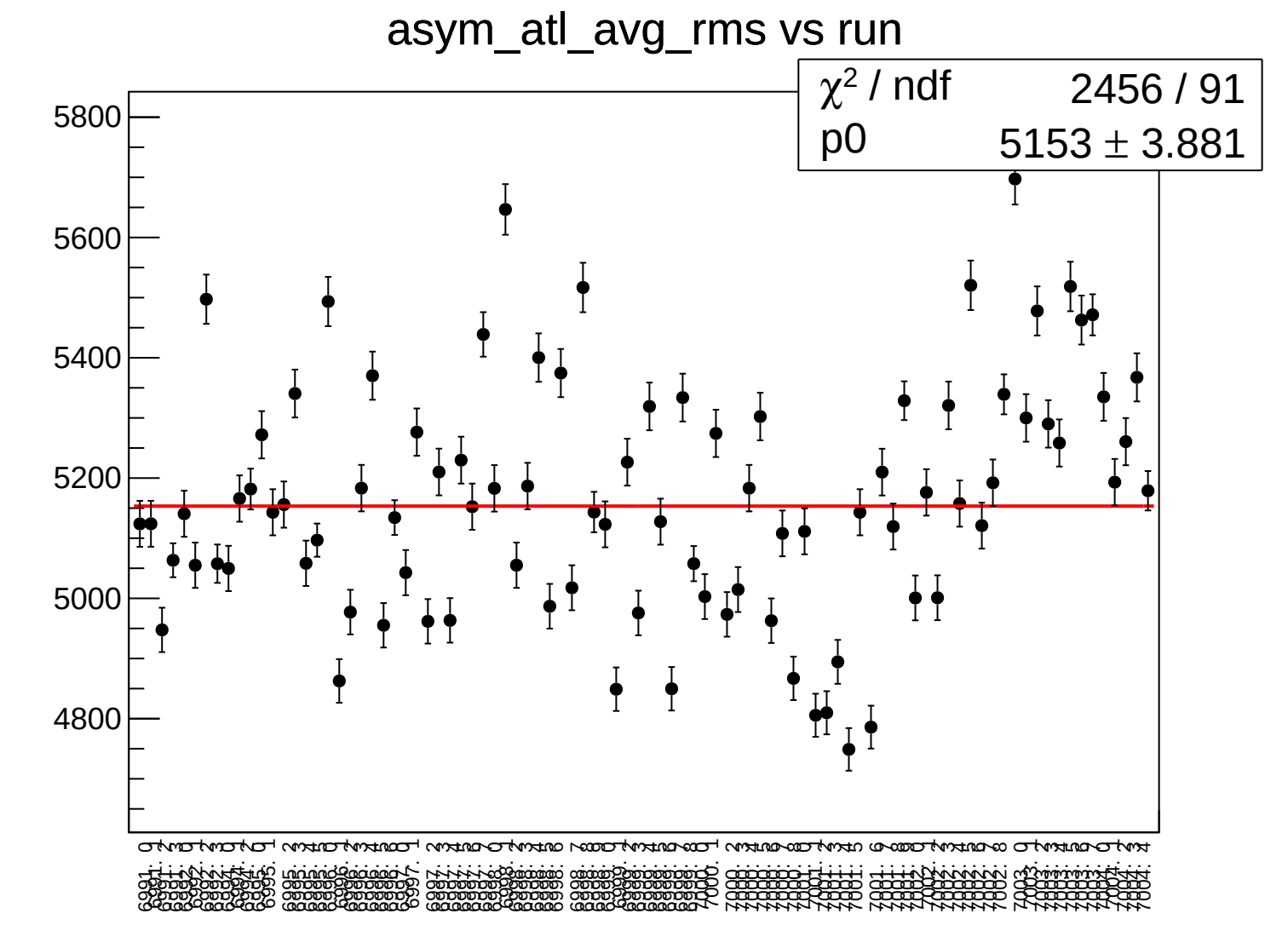

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 339.9 / 91
p0 1859 ± 1.399
2050
2000
1950
1900
1850
1800

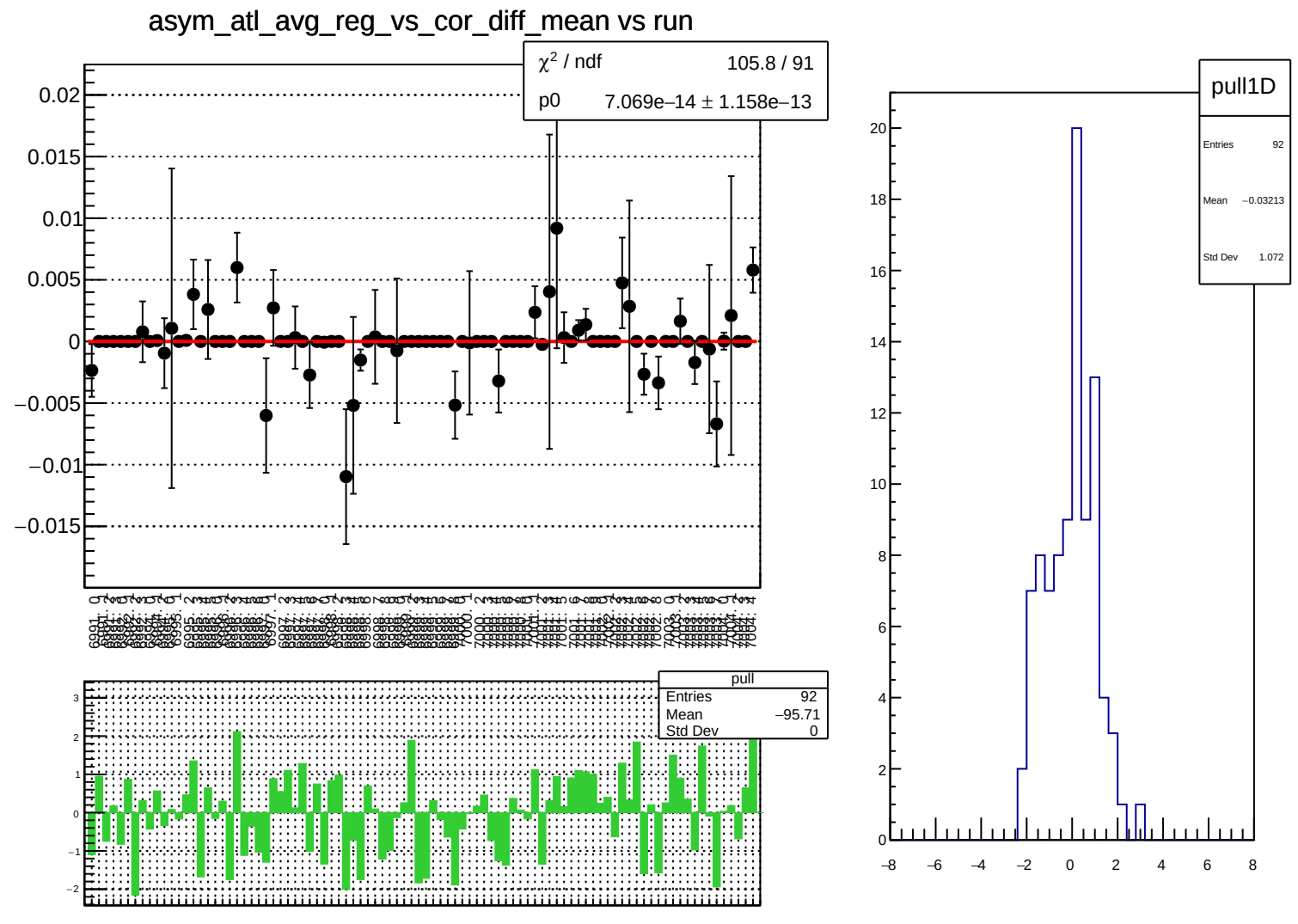

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.9 / 91
p0 −4471 ± 5498
200
100
0
−100
−200
pull
Entries 92
Mean −6257
Std Dev 0
pull1D
Entries 92
Mean 0.0007922
Std Dev 1.083

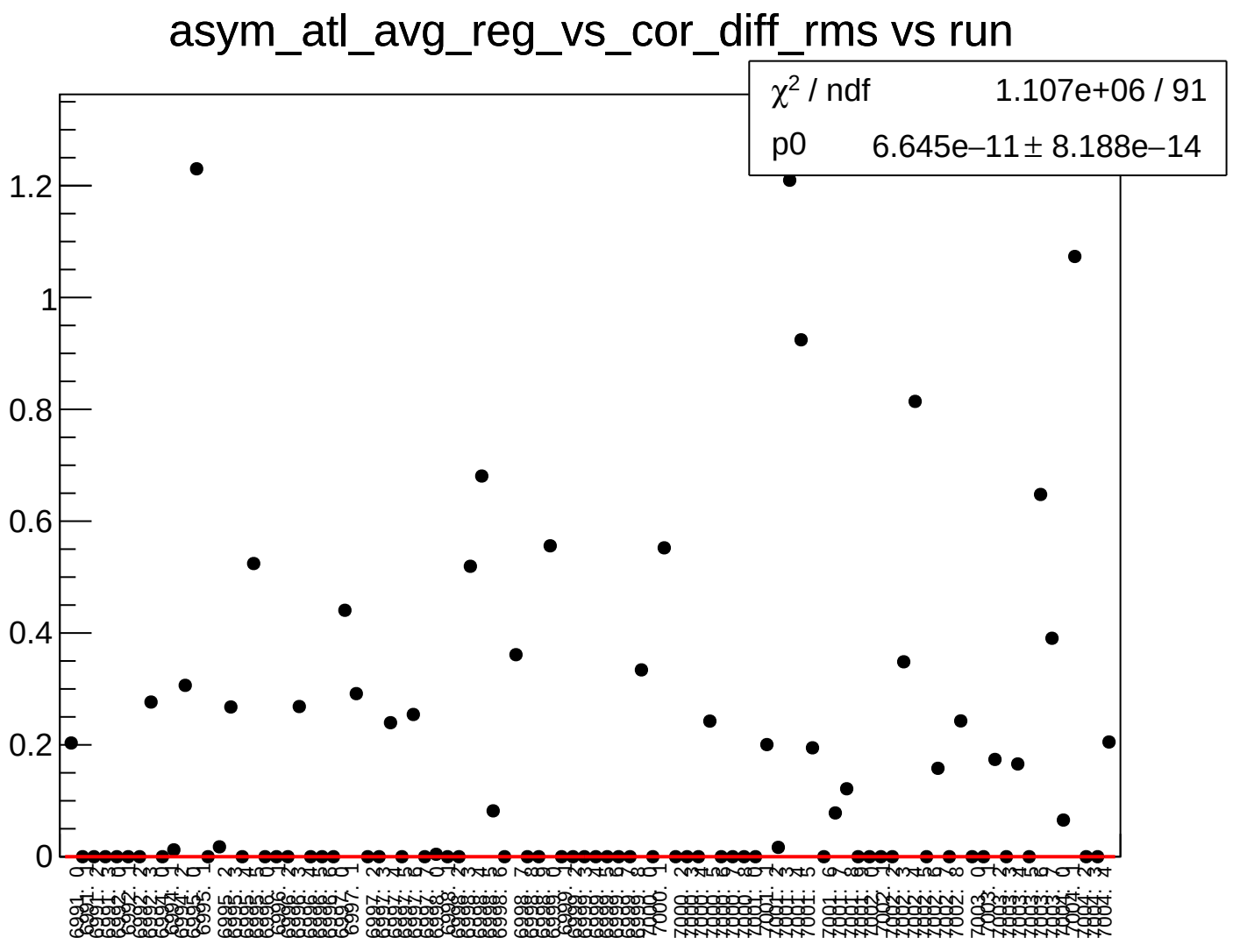

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 2940 / 91
p0 5161 ± 3.888
5800
5600
5400
5200
5000
4800
4600

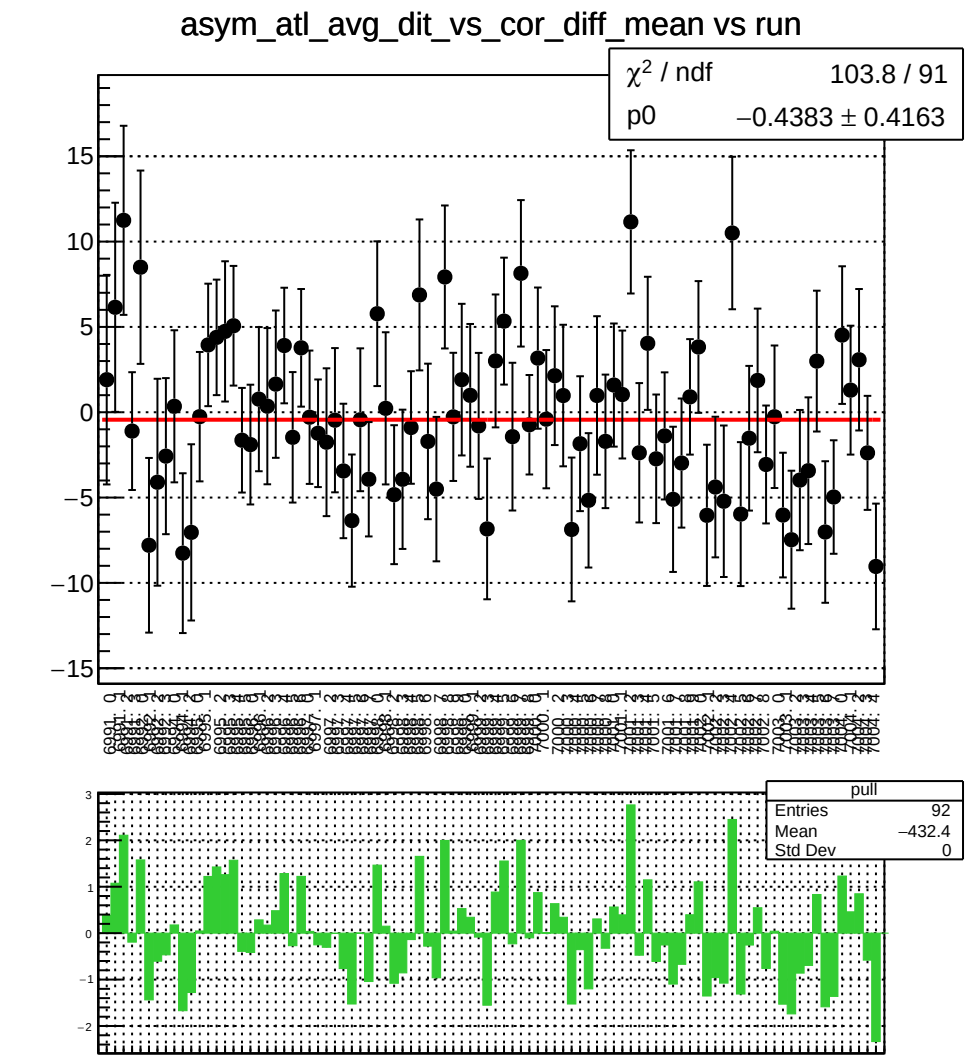

asym_atl_avg_mean vs run
×10^3
χ² / ndf 112.8 / 91
p0 −1107 ± 5489
pull
Entries 92
Mean −708.5
Std Dev 0

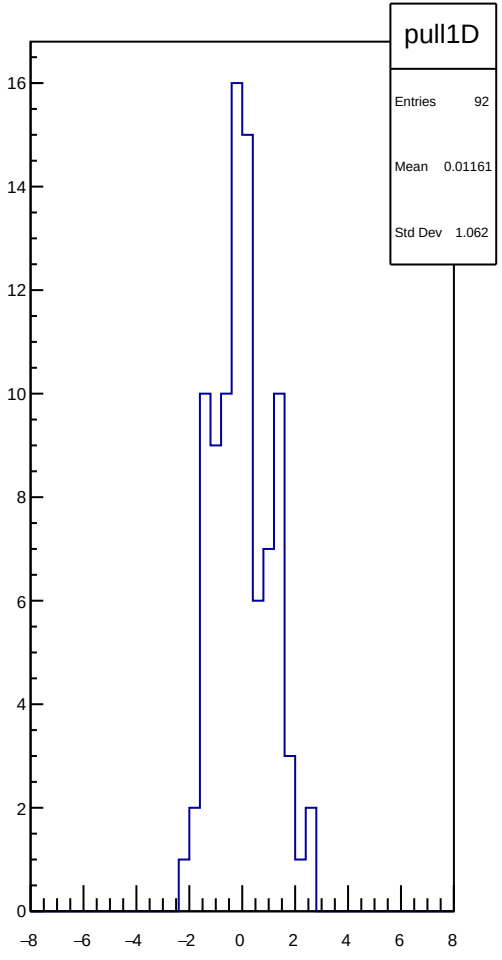

pull1D
Entries 92
Mean −0.006219
Std Dev 1.107

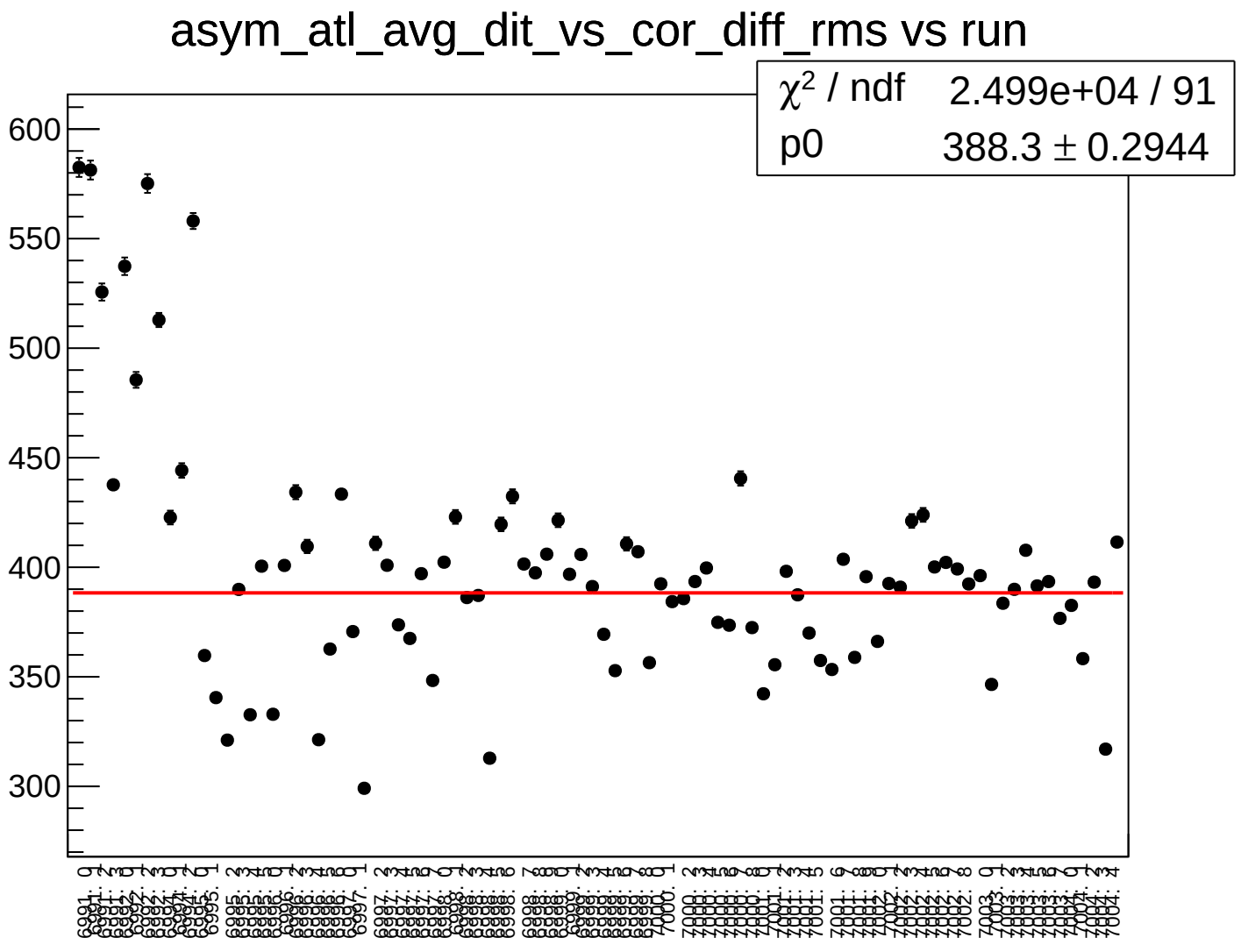

asym_atl_avg_rms vs run
χ² / ndf 2456 / 91
p0 5153 ± 3.881
5800
5600
5400
5200
5000
4800

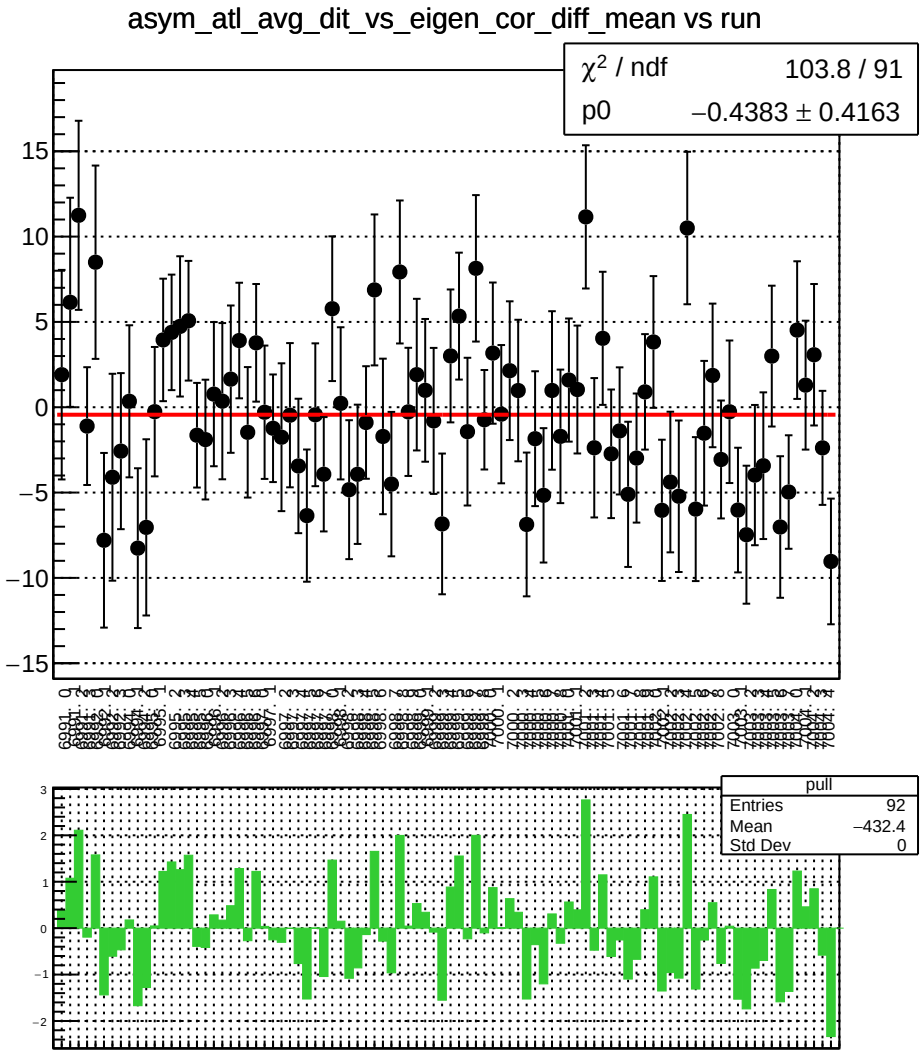

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 91
p0 7.069e−14 ± 1.158e−13
pull
Entries 92
Mean −95.71
Std Dev 0
pull1D
Entries 92
Mean −0.03213
Std Dev 1.072

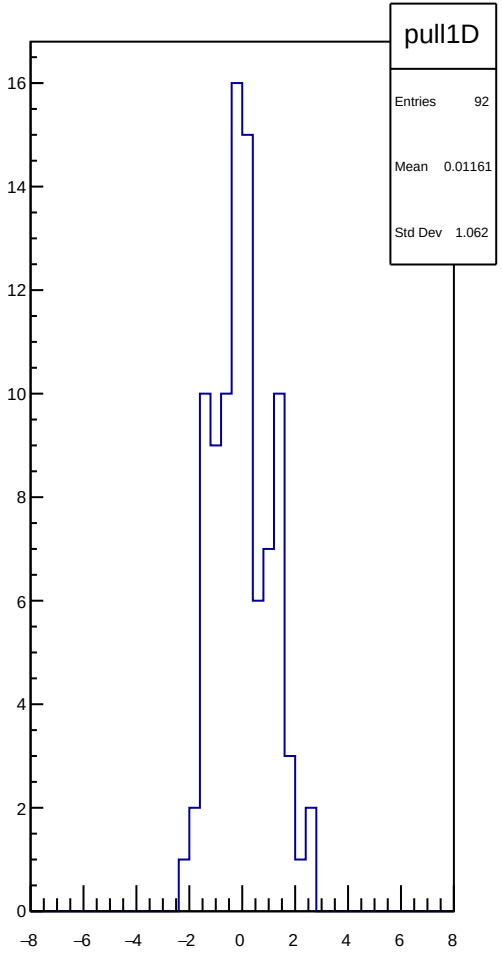

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 91
p0 6.645e−11 ± 8.188e−14
1.2
1
0.8
0.6
0.4
0.2
0

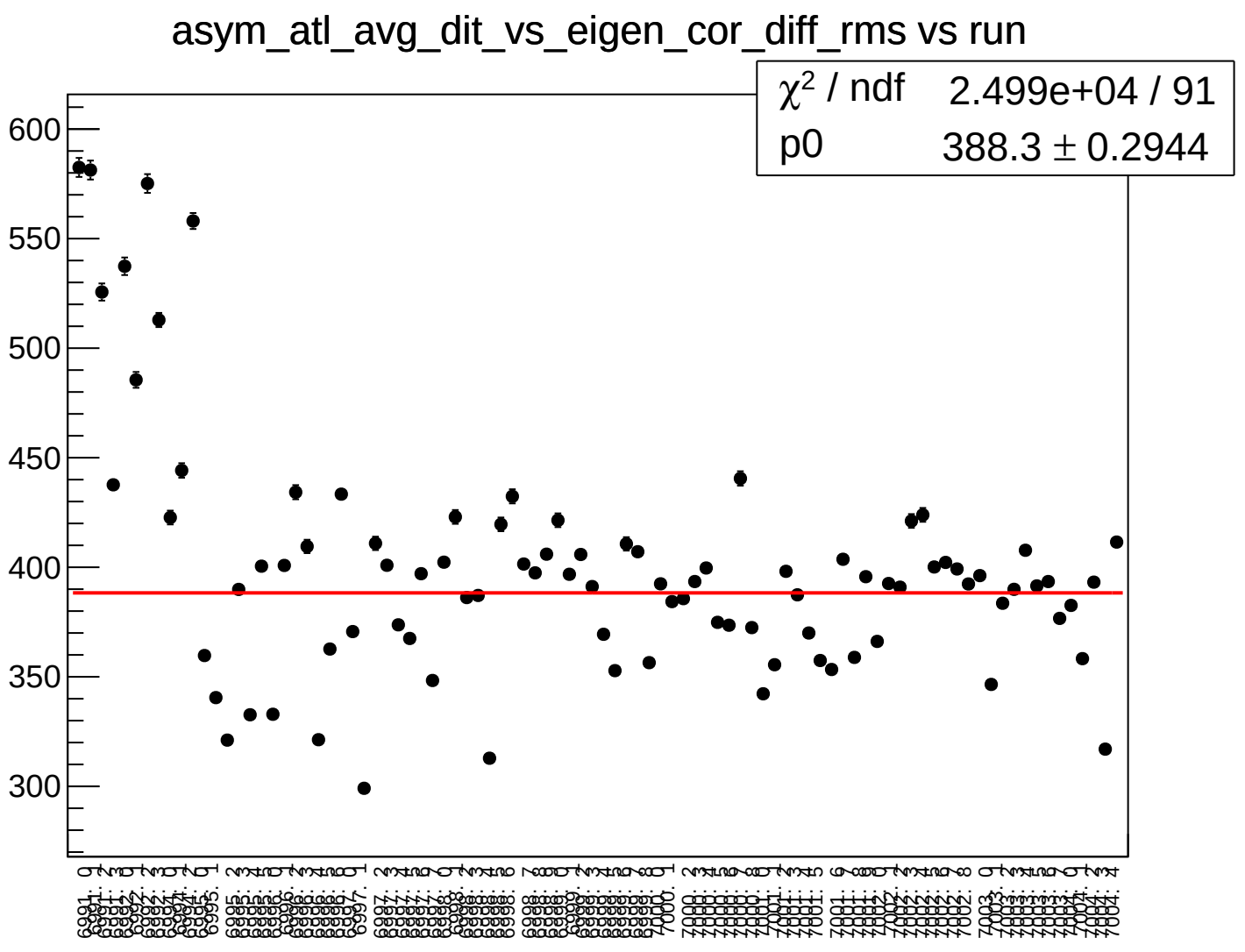

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 91
p0 −0.4383 ± 0.4163
pull
Entries 92
Mean −432.4
Std Dev 0

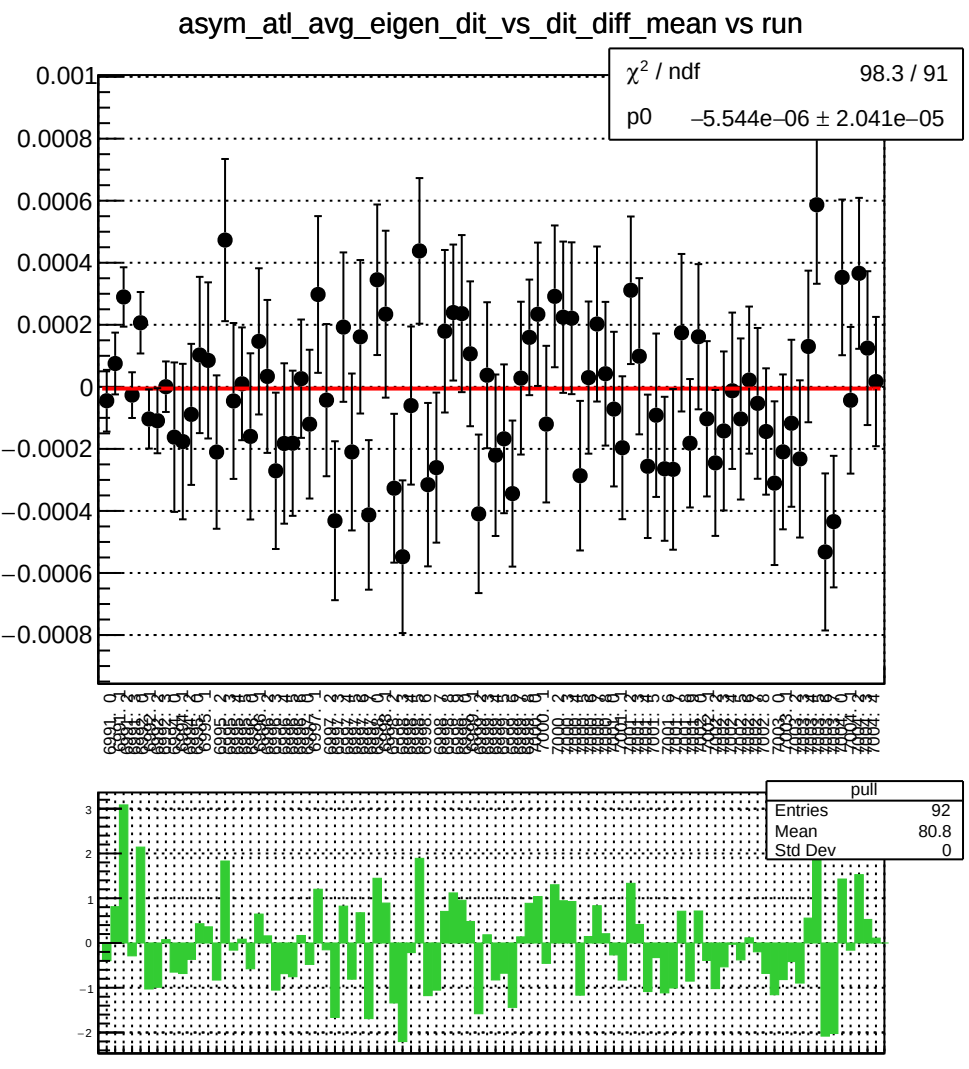

pull1D
Entries 92
Mean 0.01161
Std Dev 1.062

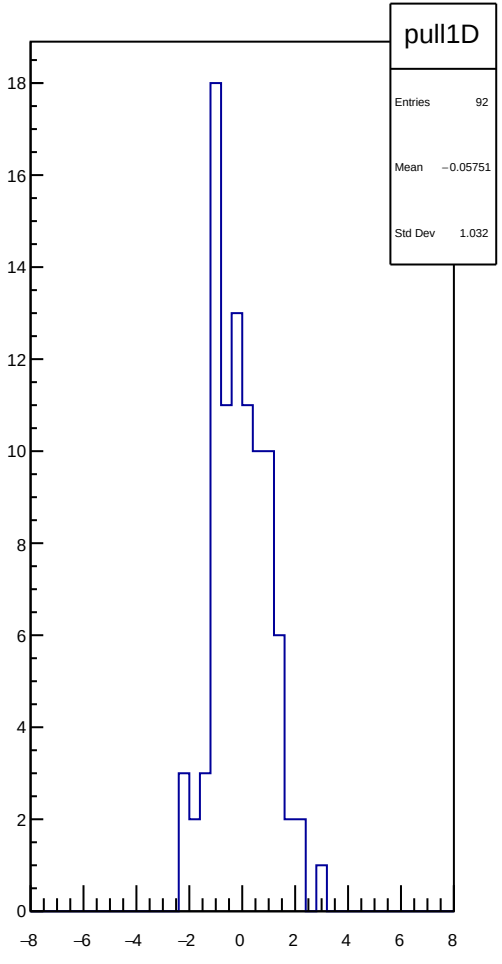

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.499e+04 / 91
p0 388.3 ± 0.2944
600
550
500
450
400
350
300

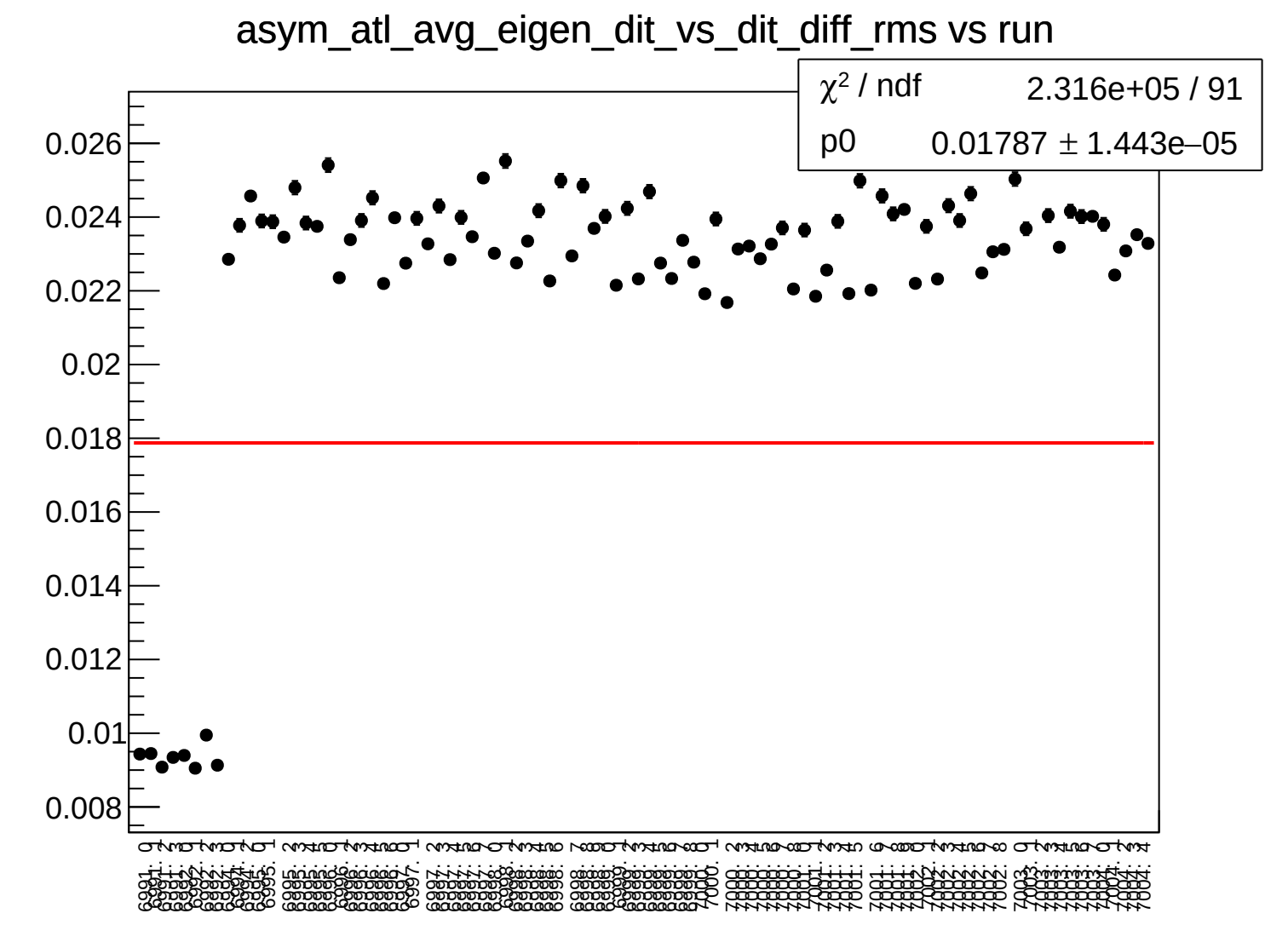

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 91
p0 −0.4383 ± 0.4163
pull
Entries 92
Mean −432.4
Std Dev 0

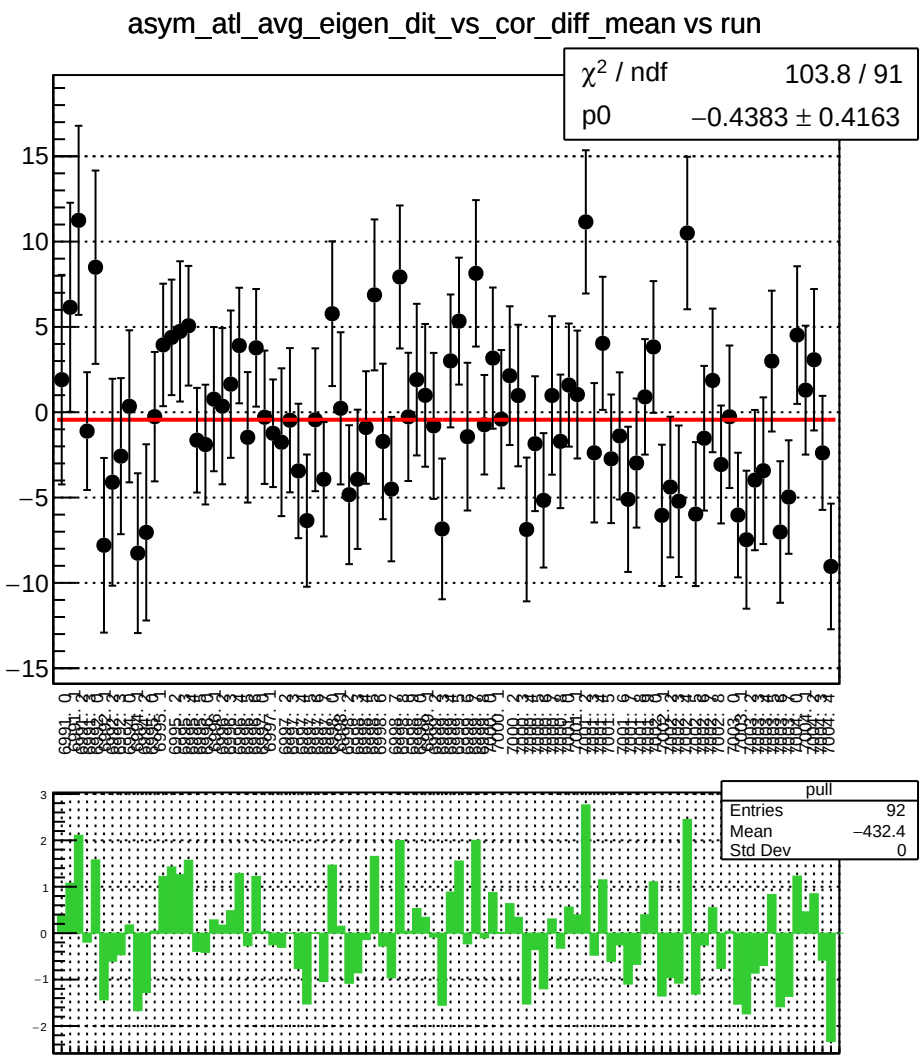

pull1D
Entries 92
Mean 0.01161
Std Dev 1.062

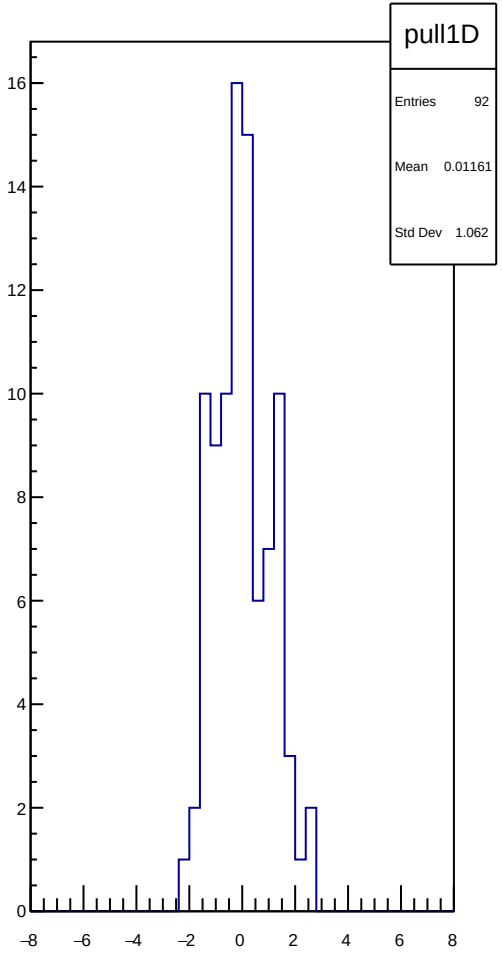

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.499e+04 / 91
p0 388.3 ± 0.2944
600
550
500
450
400
350
300

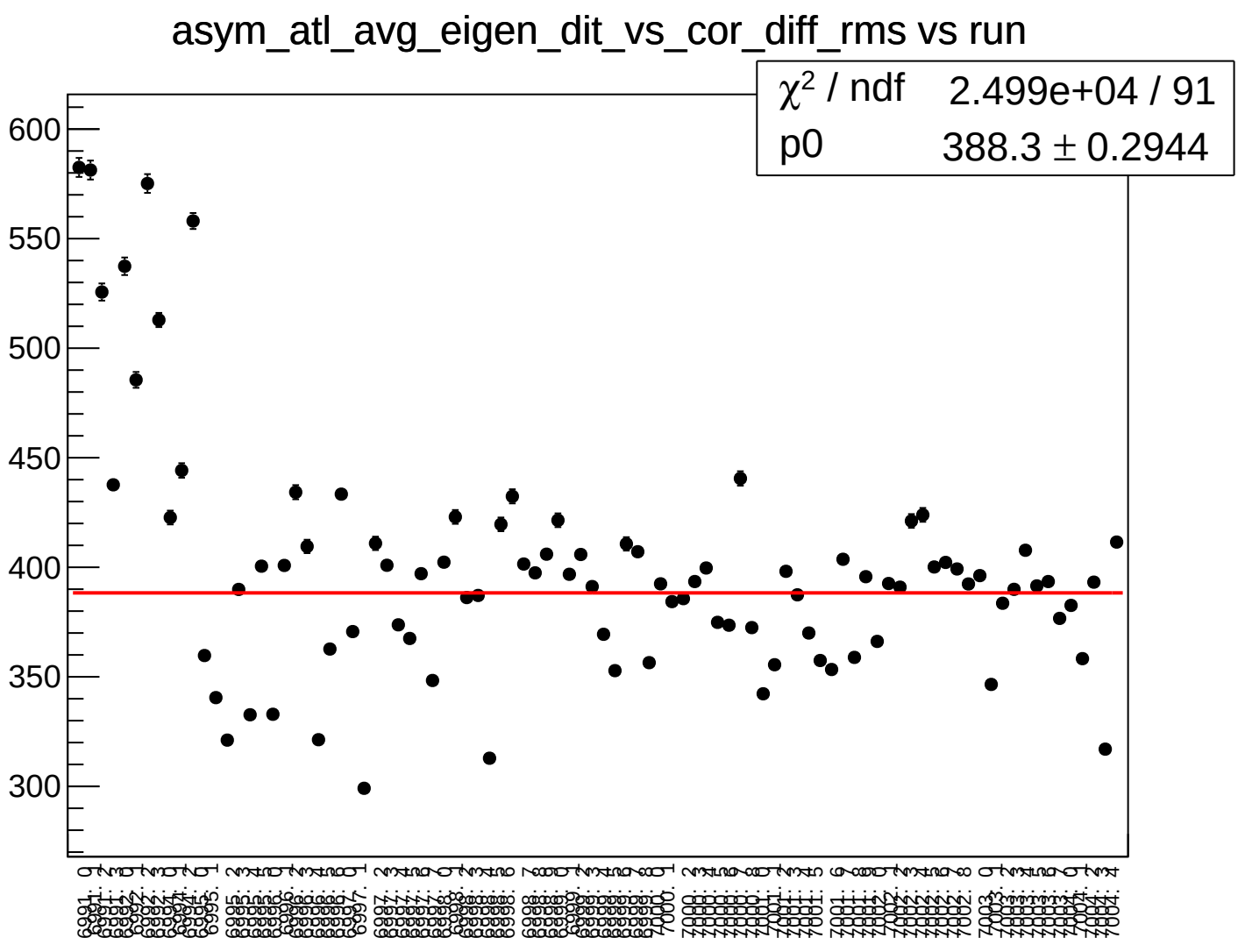

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 98.3 / 91
p0 −5.544e−06 ± 2.041e−05
pull
Entries 92
Mean 80.8
Std Dev 0

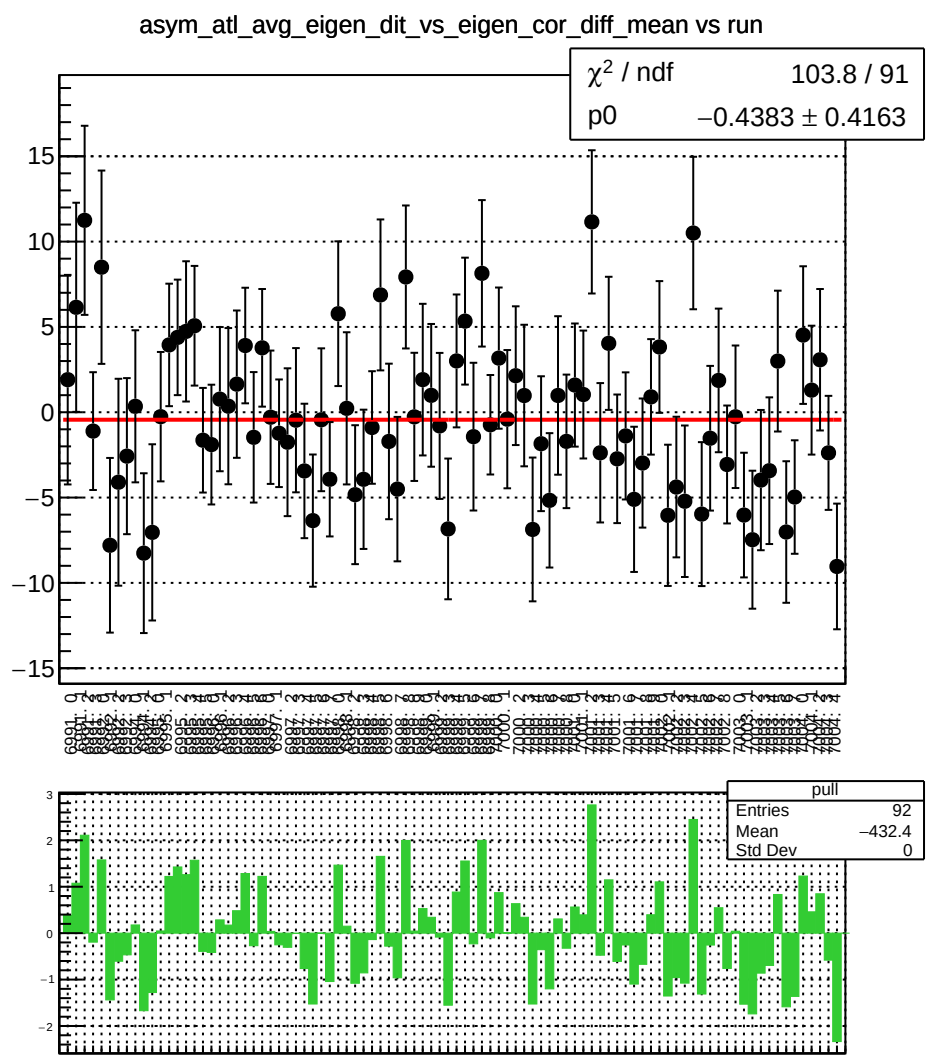

pull1D
Entries 92
Mean −0.05751
Std Dev 1.032

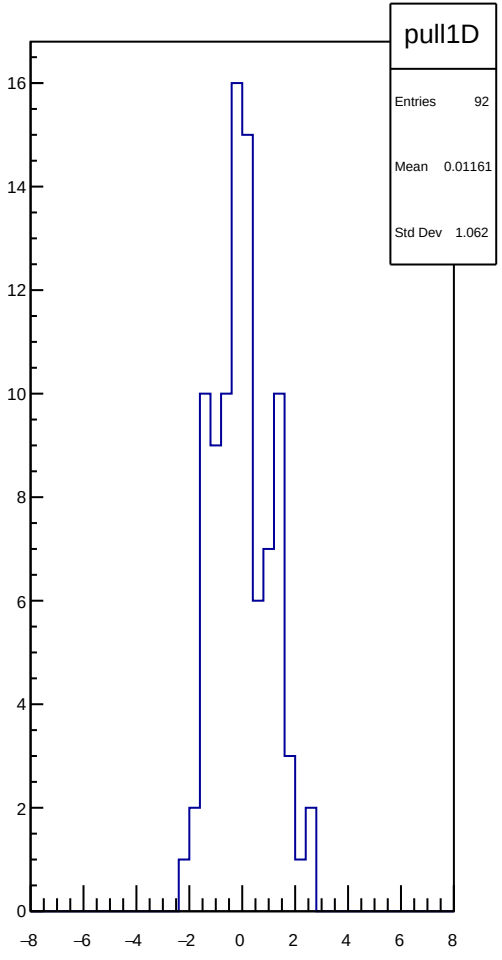

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.316e+05 / 91
p0 0.01787 ± 1.443e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

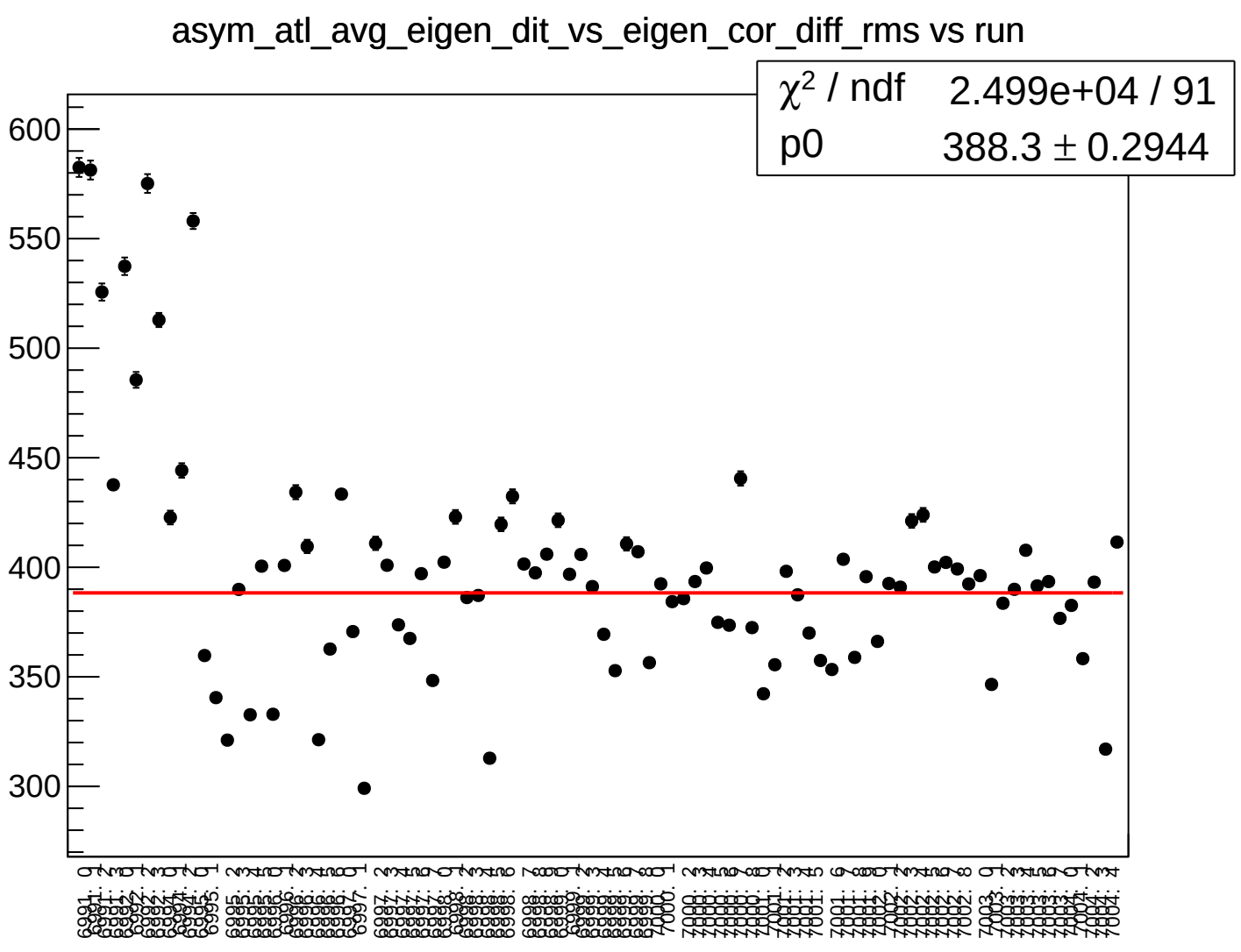

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 91
p0 −0.4383 ± 0.4163
pull
Entries 92
Mean −432.4
Std Dev 0

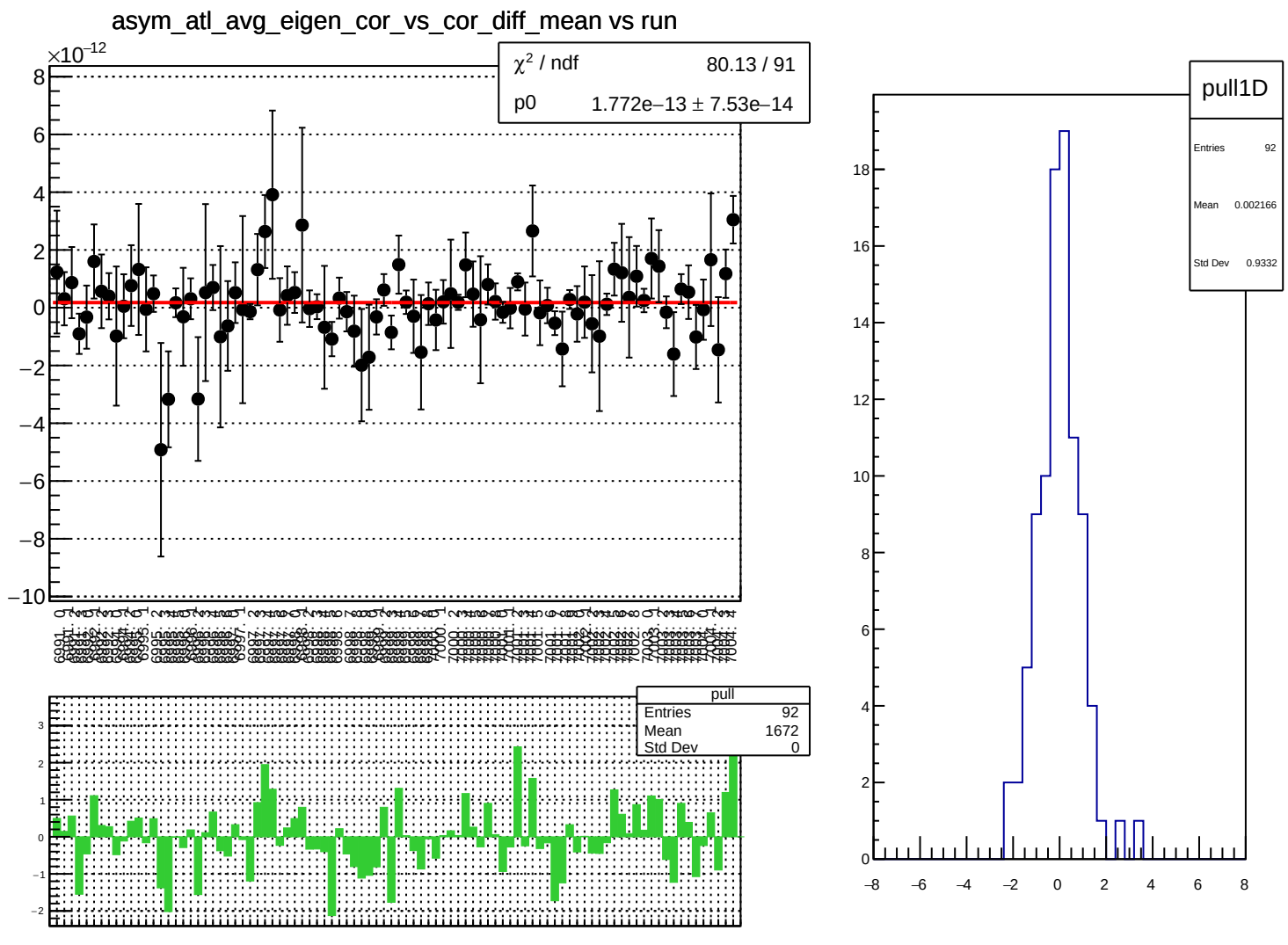

pull1D
Entries 92
Mean 0.01161
Std Dev 1.062

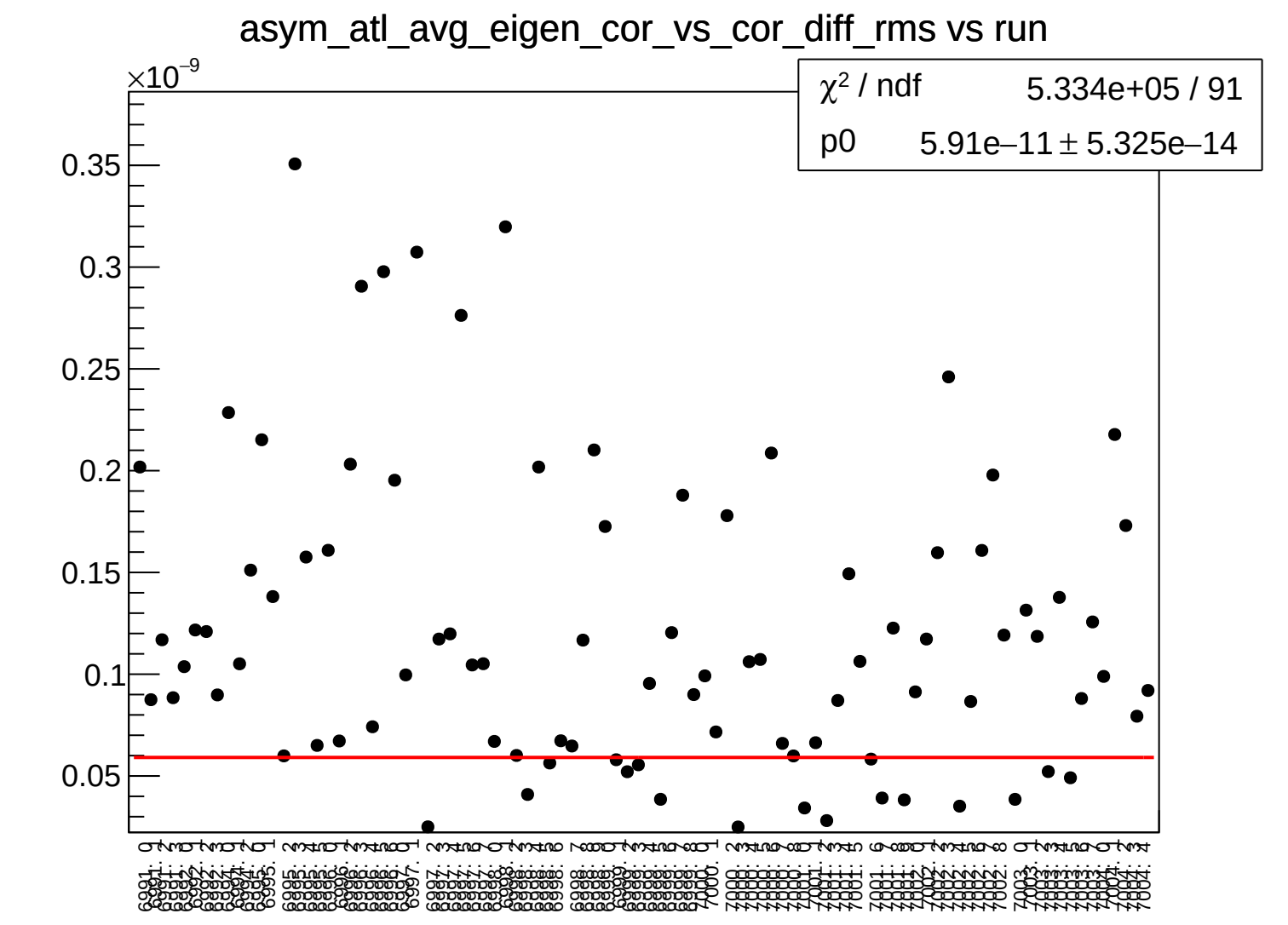

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.499e+04 / 91
p0 388.3 ± 0.2944
600
550
500
450
400
350
300

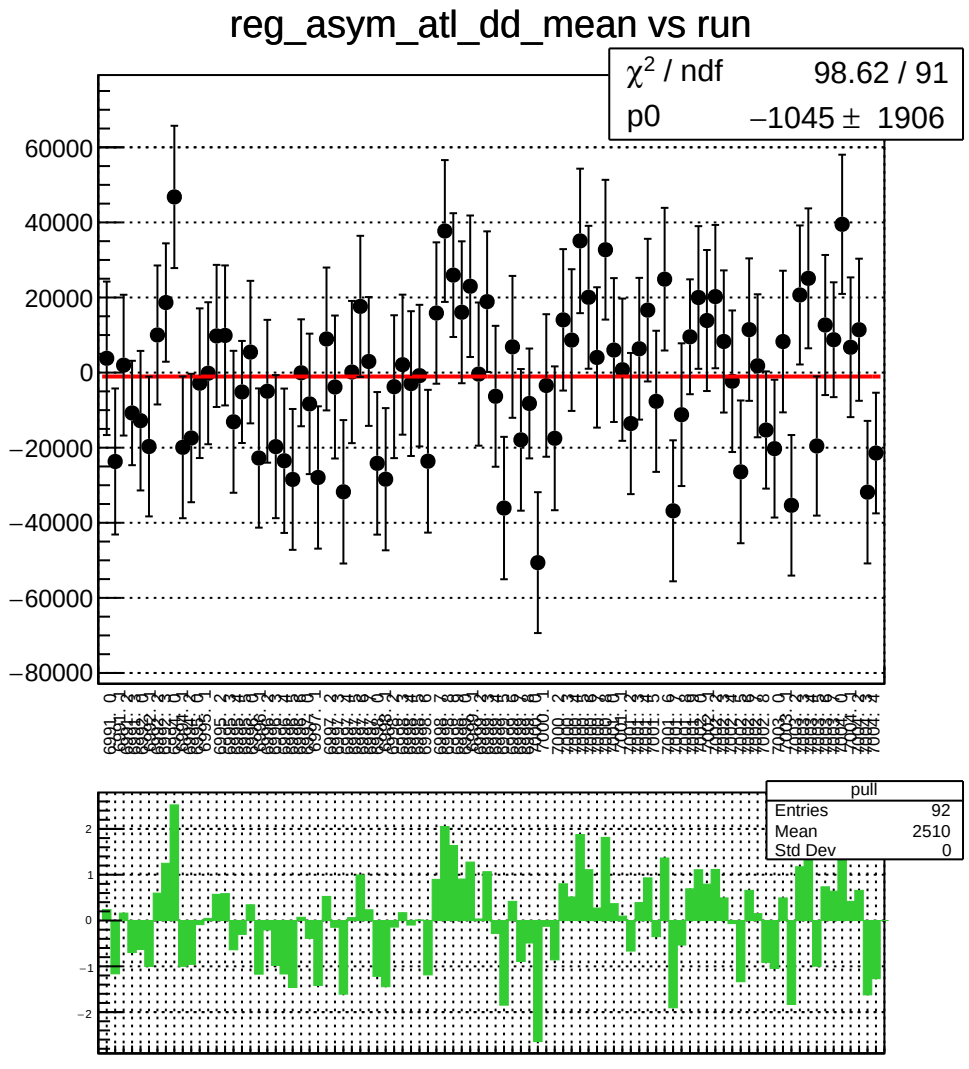

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.8 / 91
p0 −0.4383 ± 0.4163
pull
Entries 92
Mean −432.4
Std Dev 0

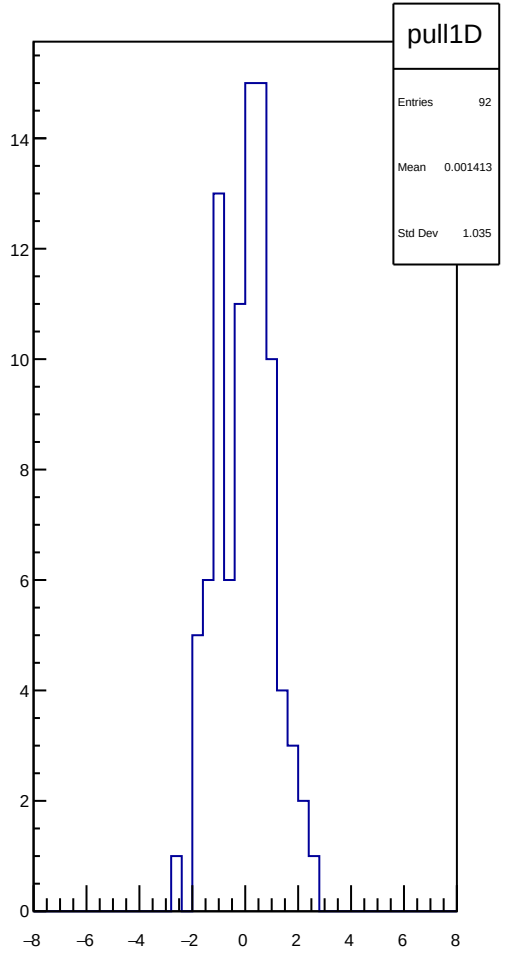

pull1D
Entries 92
Mean 0.01161
Std Dev 1.062

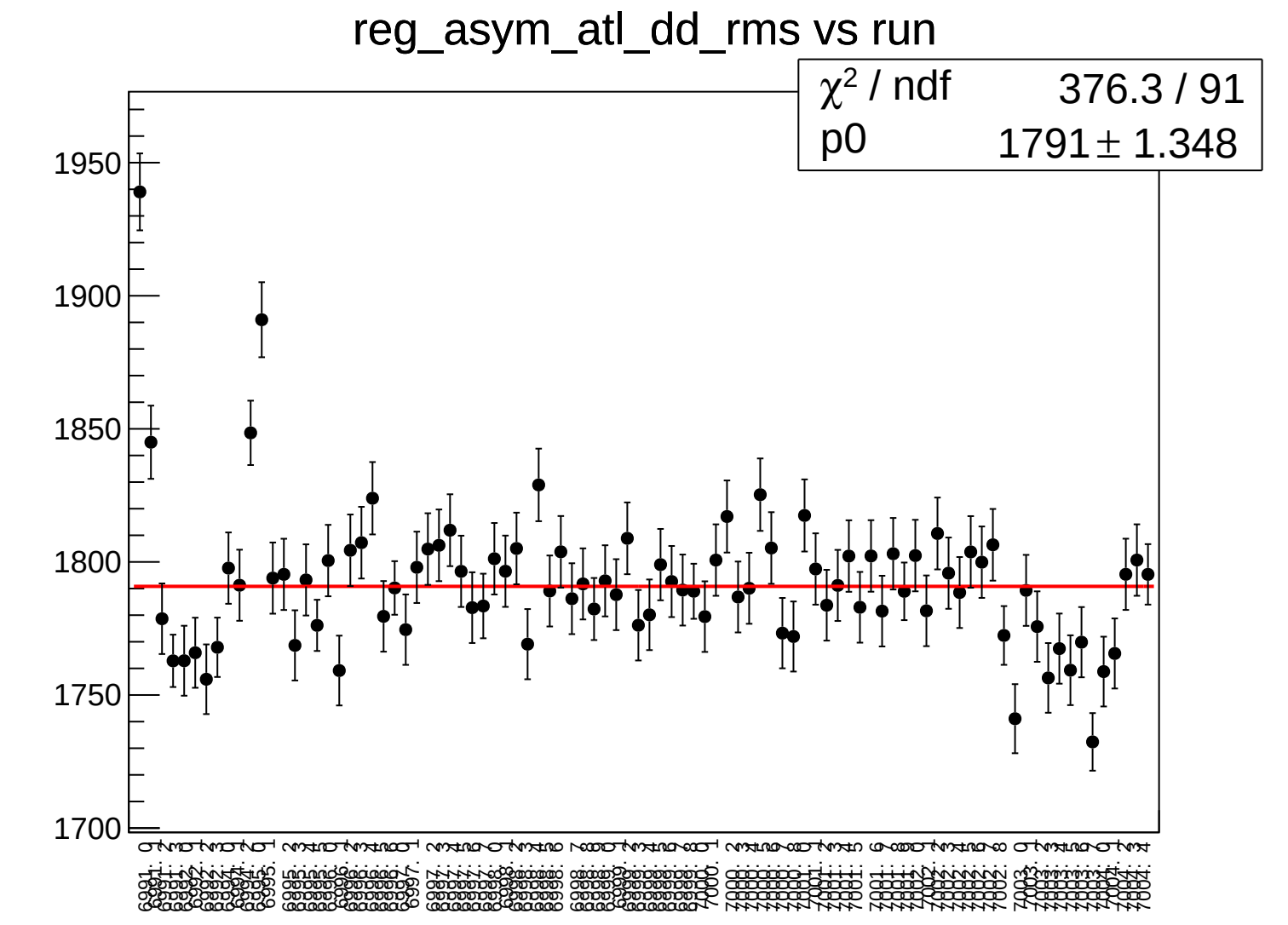

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.499e+04 / 91
p0 388.3 ± 0.2944
600
550
500
450
400
350
300

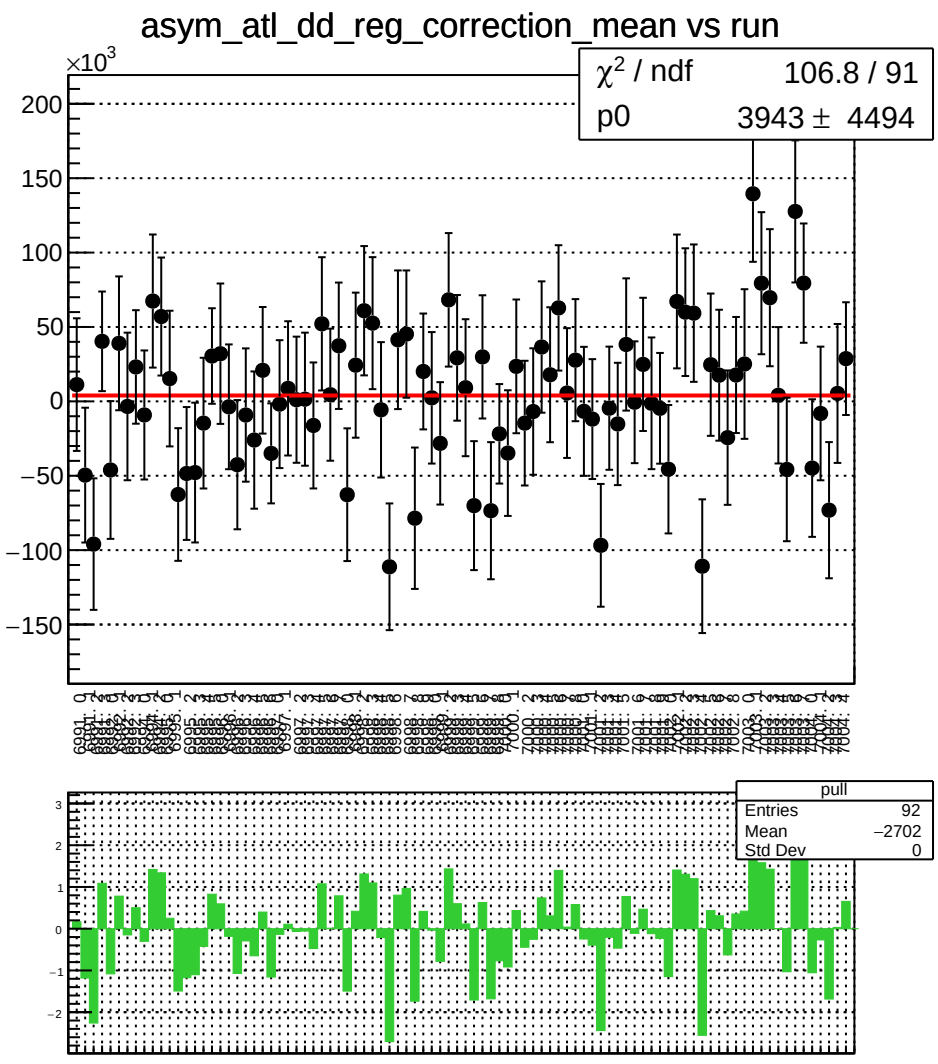

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.13 / 91
p0 1.772e−13 ± 7.53e−14
pull
Entries 92
Mean 1672
Std Dev 0
pull1D
Entries 92
Mean 0.002166
Std Dev 0.9332

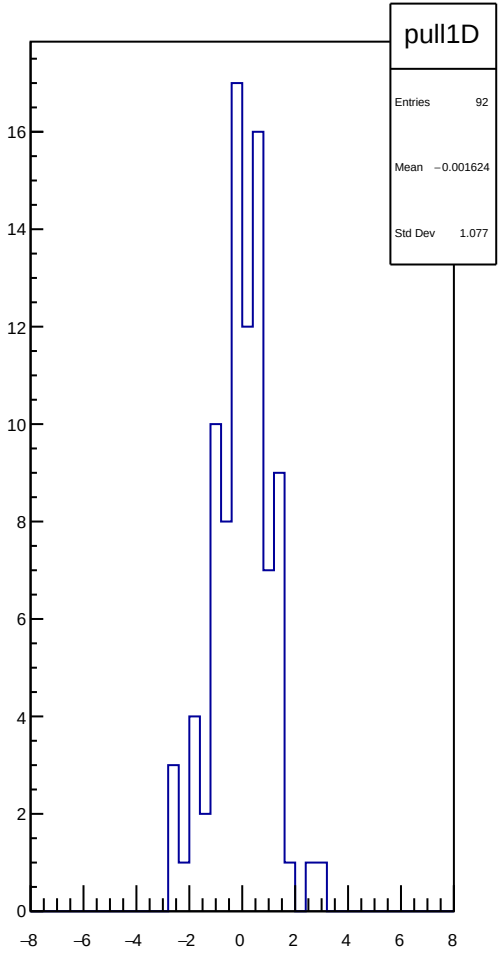

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.334e+05 / 91
p0 5.91e−11 ± 5.325e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

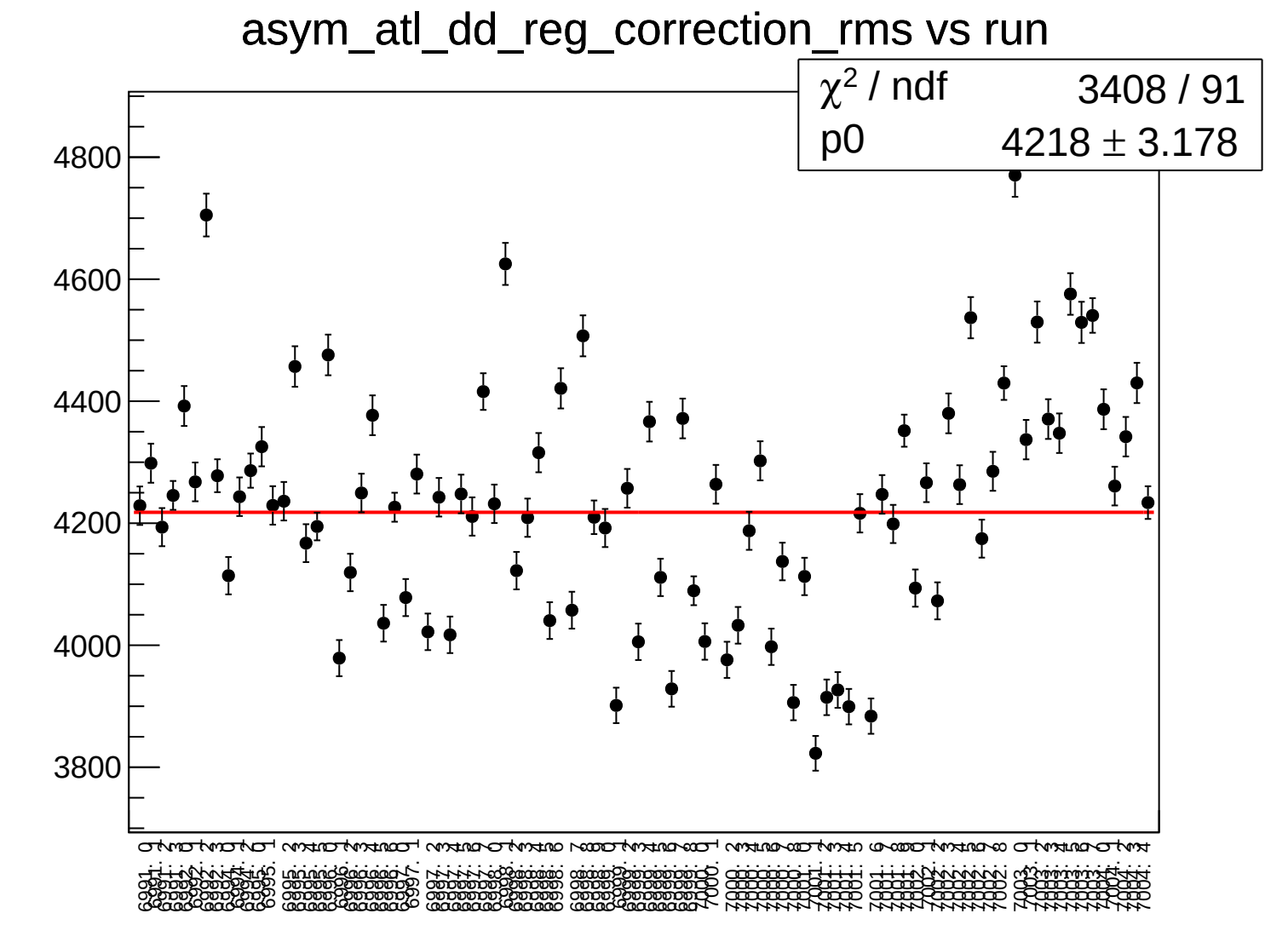

reg_asym_atl_dd_mean vs run
χ² / ndf 98.62 / 91
p0 −1045 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 2510
Std Dev 0
2
1
0
−1
−2

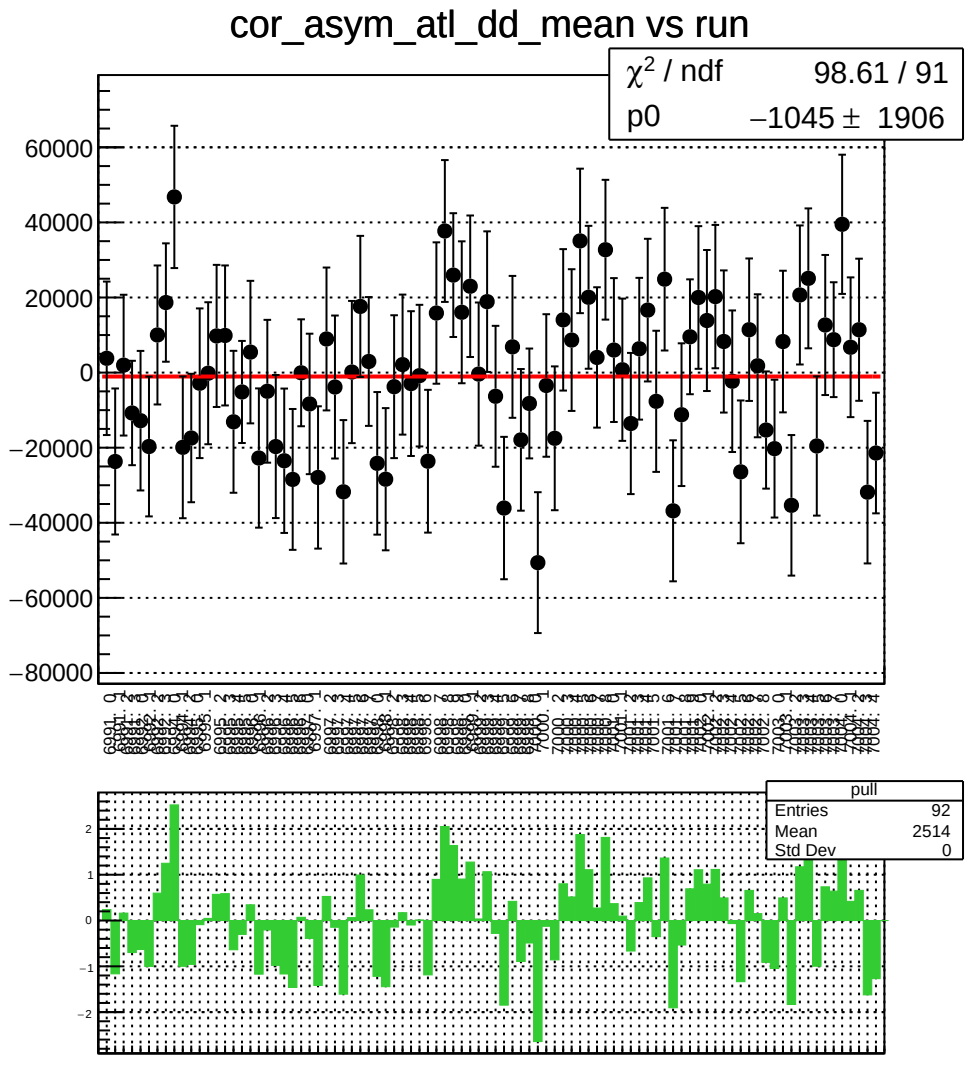

pull1D
Entries 92
Mean 0.001413
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

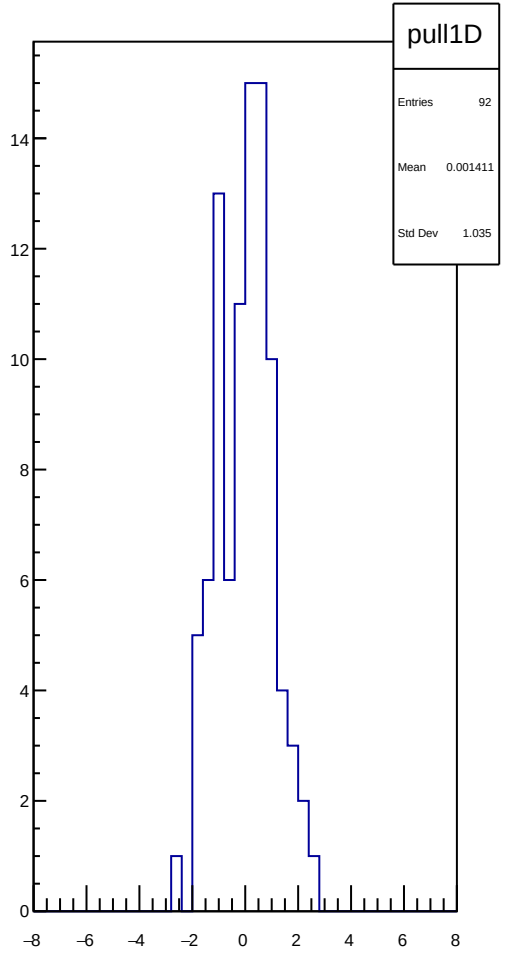

reg_asym_atl_dd_rms vs run
χ^2 / ndf 376.3 / 91
p0 1791 ± 1.348
1950
1900
1850
1800
1750
1700

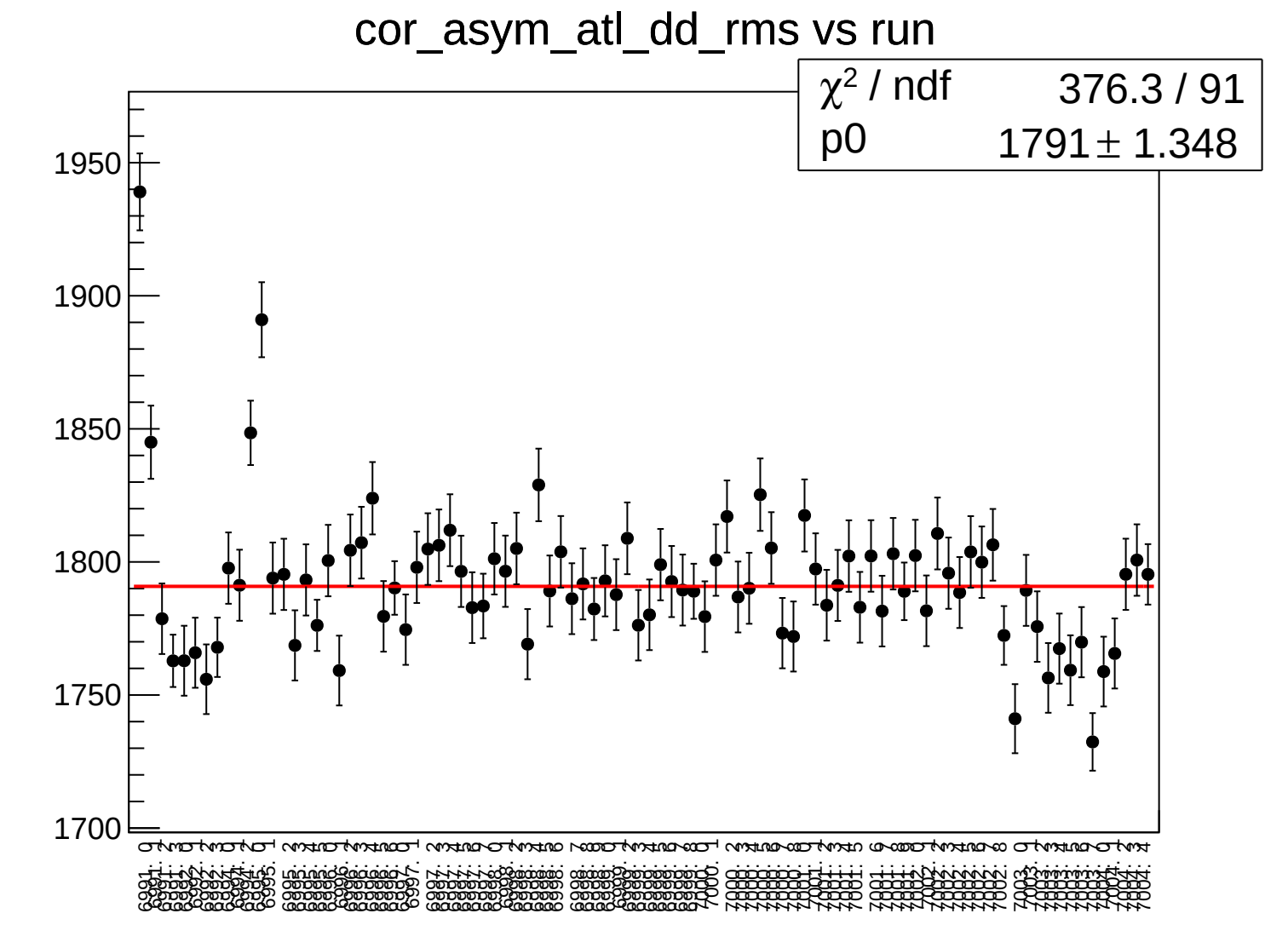

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106.8 / 91
p0 3943 ± 4494
pull
Entries 92
Mean −2702
Std Dev 0

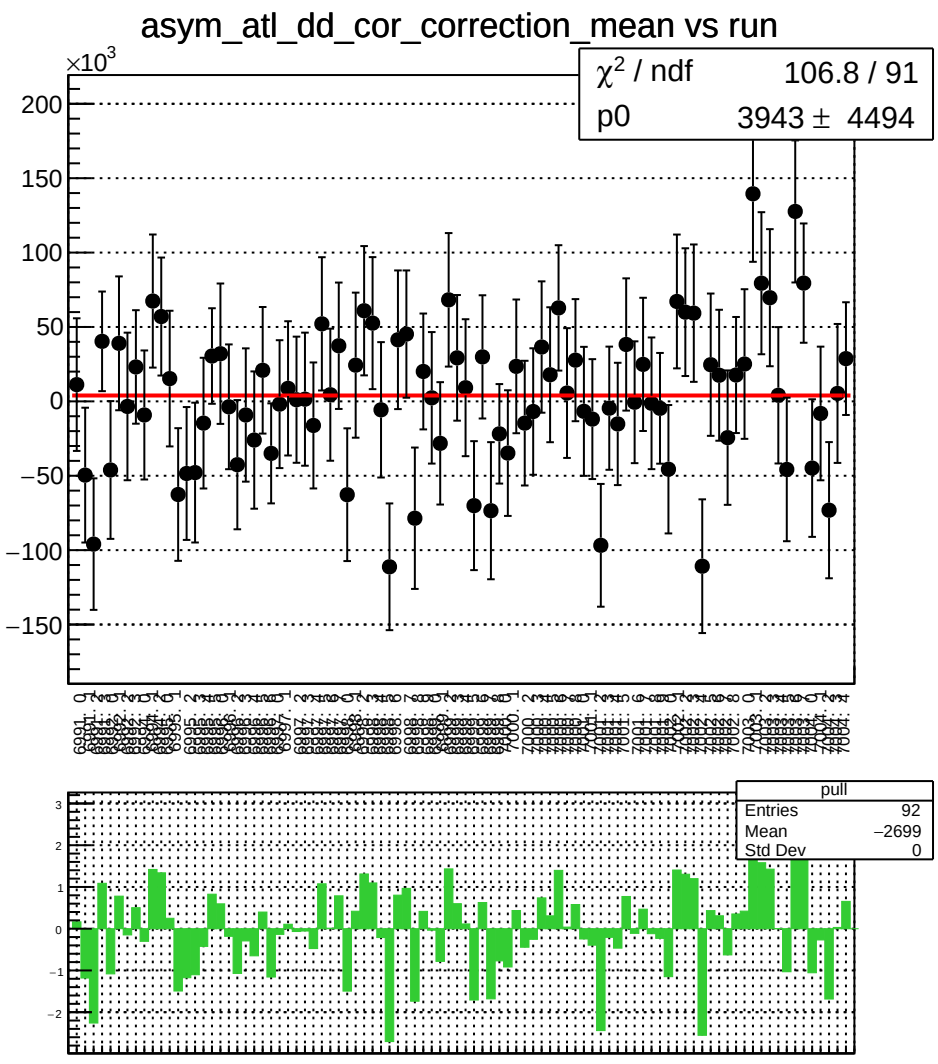

pull1D
Entries 92
Mean −0.001624
Std Dev 1.077

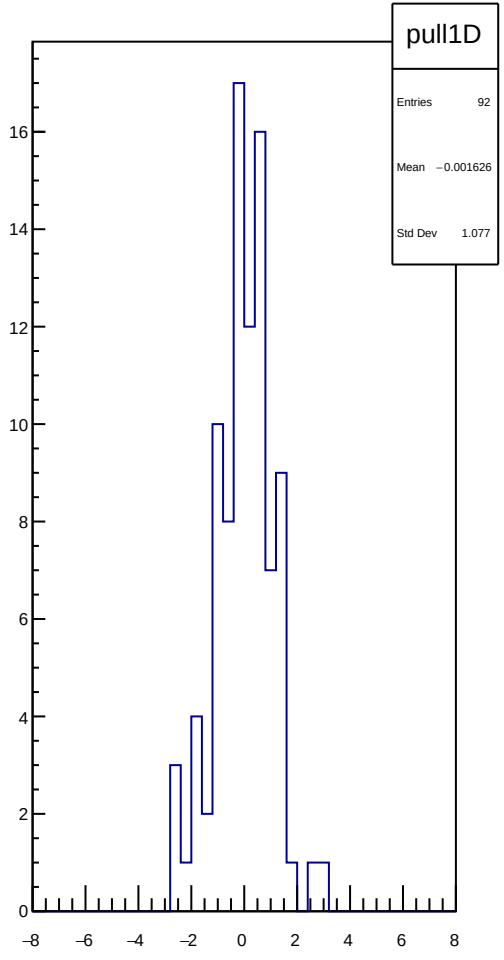

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 3408 / 91
p0 4218 ± 3.178
4800
4600
4400
4200
4000
3800

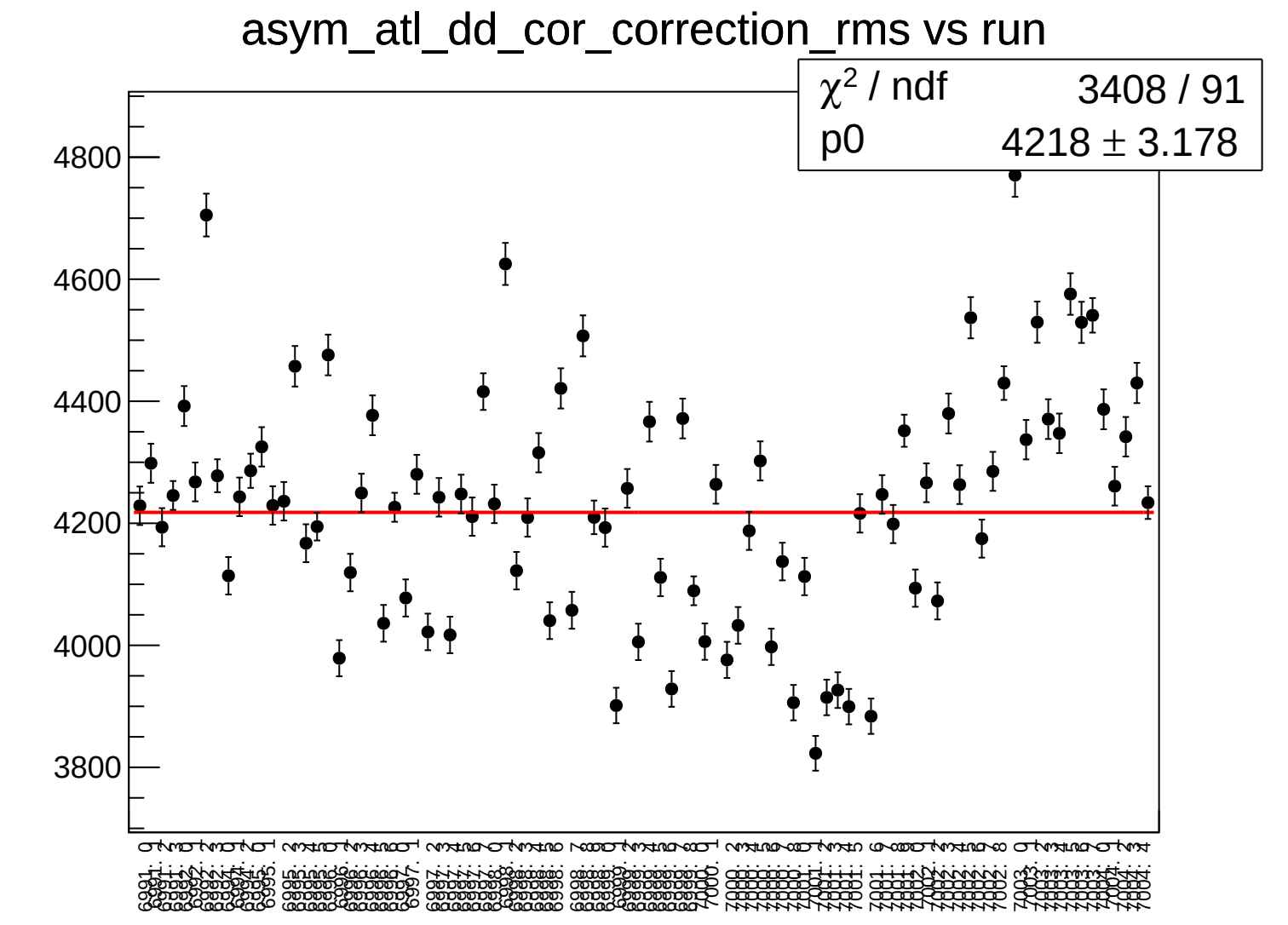

cor_asym_atl_dd_mean vs run
χ² / ndf 98.61 / 91
p0 −1045 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 2514
Std Dev 0
2
1
0
−1
−2

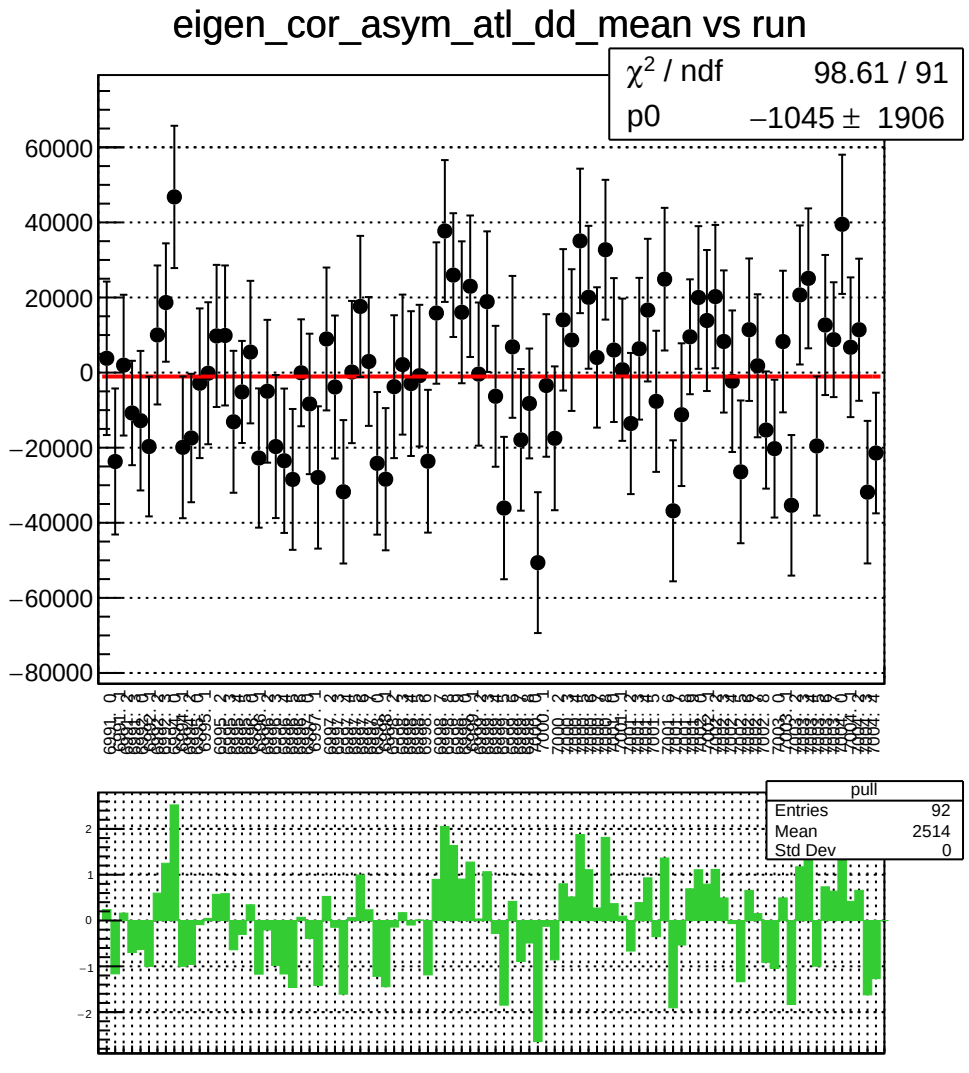

pull1D
Entries 92
Mean 0.001411
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

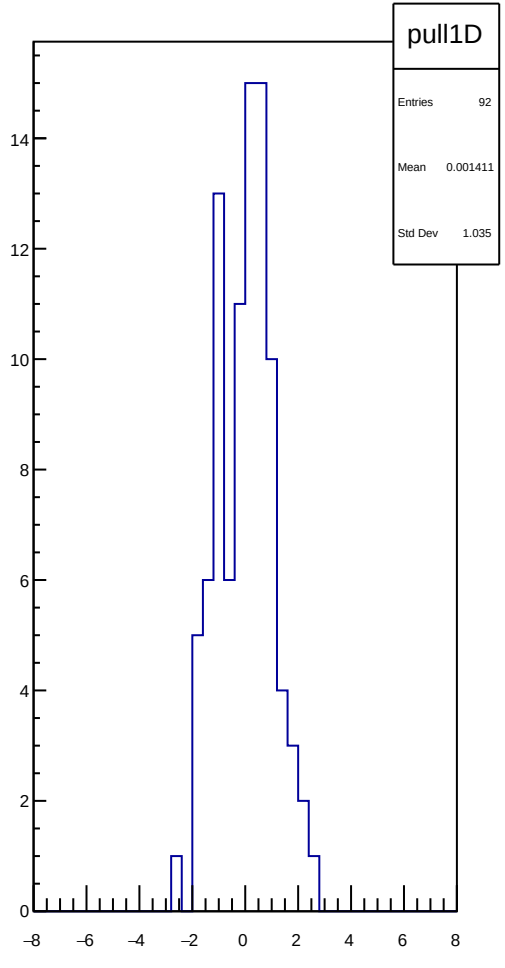

cor_asym_atl_dd_rms vs run
χ² / ndf 376.3 / 91
p0 1791 ± 1.348
1950
1900
1850
1800
1750
1700

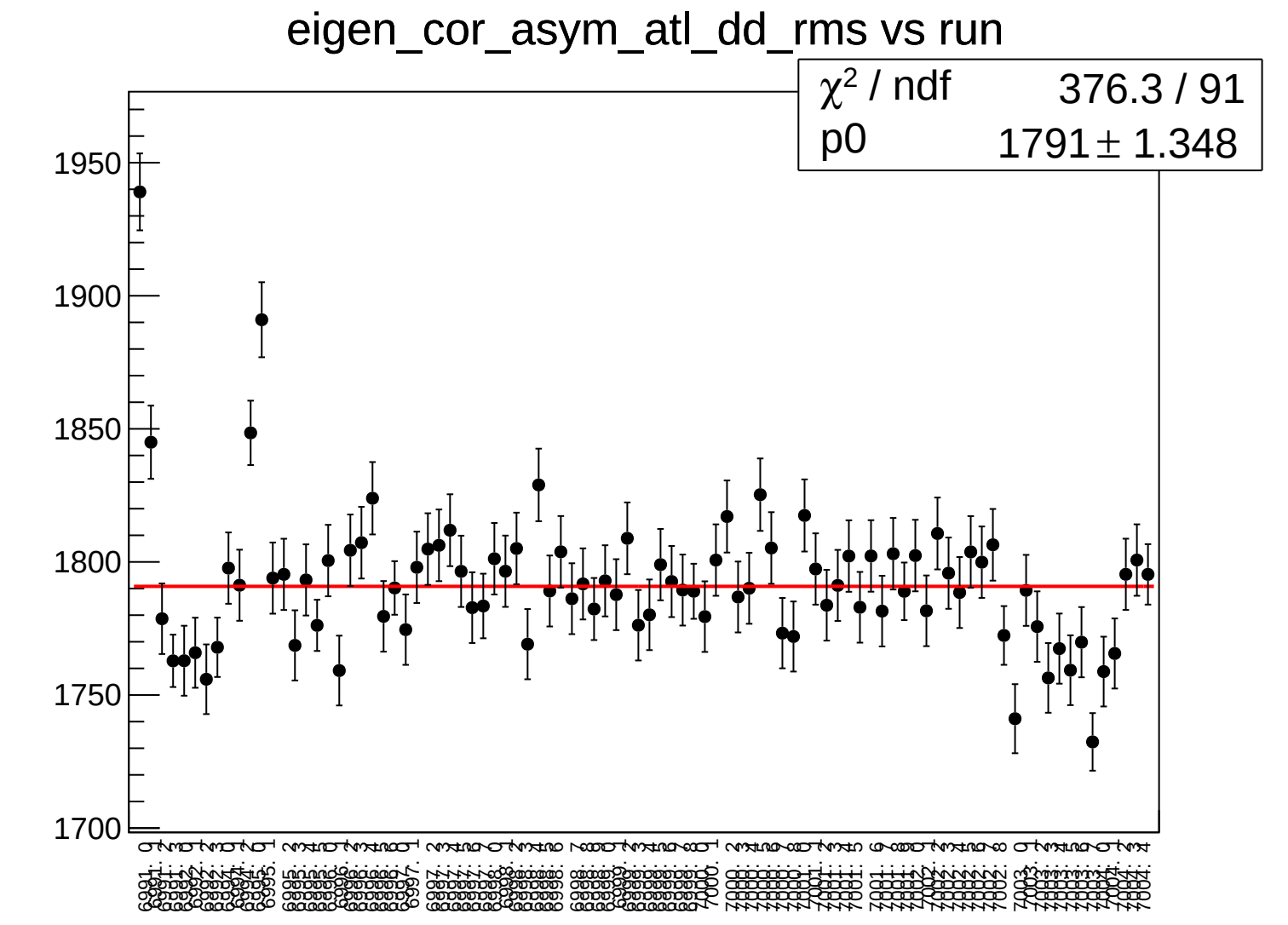

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 106.8 / 91
p0 3943 ± 4494
200
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −2699
Std Dev 0
3
2
1
0
−1
−2

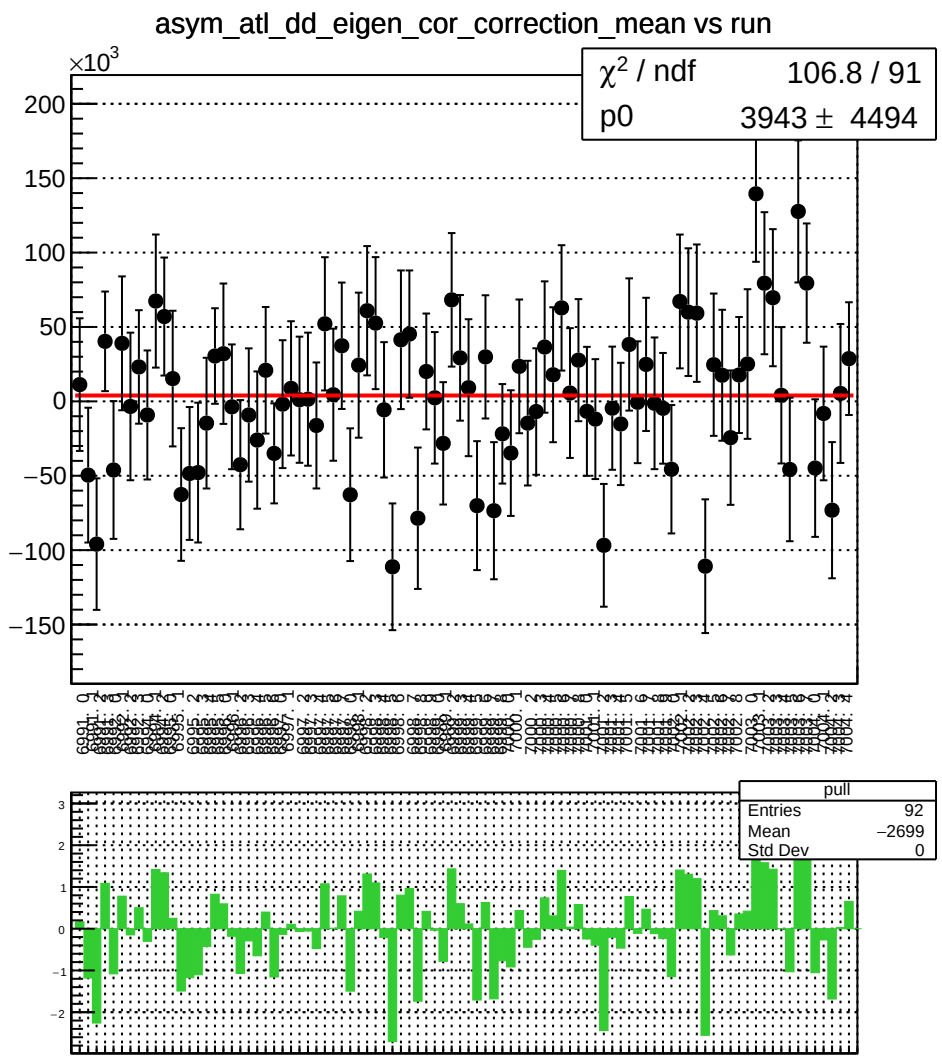

pull1D
Entries 92
Mean −0.001626
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

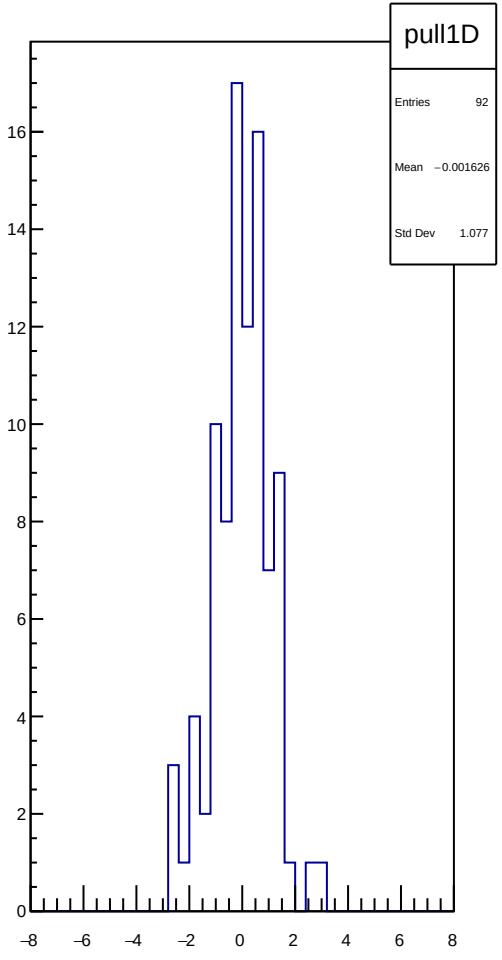

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 3408 / 91
p0 4218 ± 3.178
4800
4600
4400
4200
4000
3800

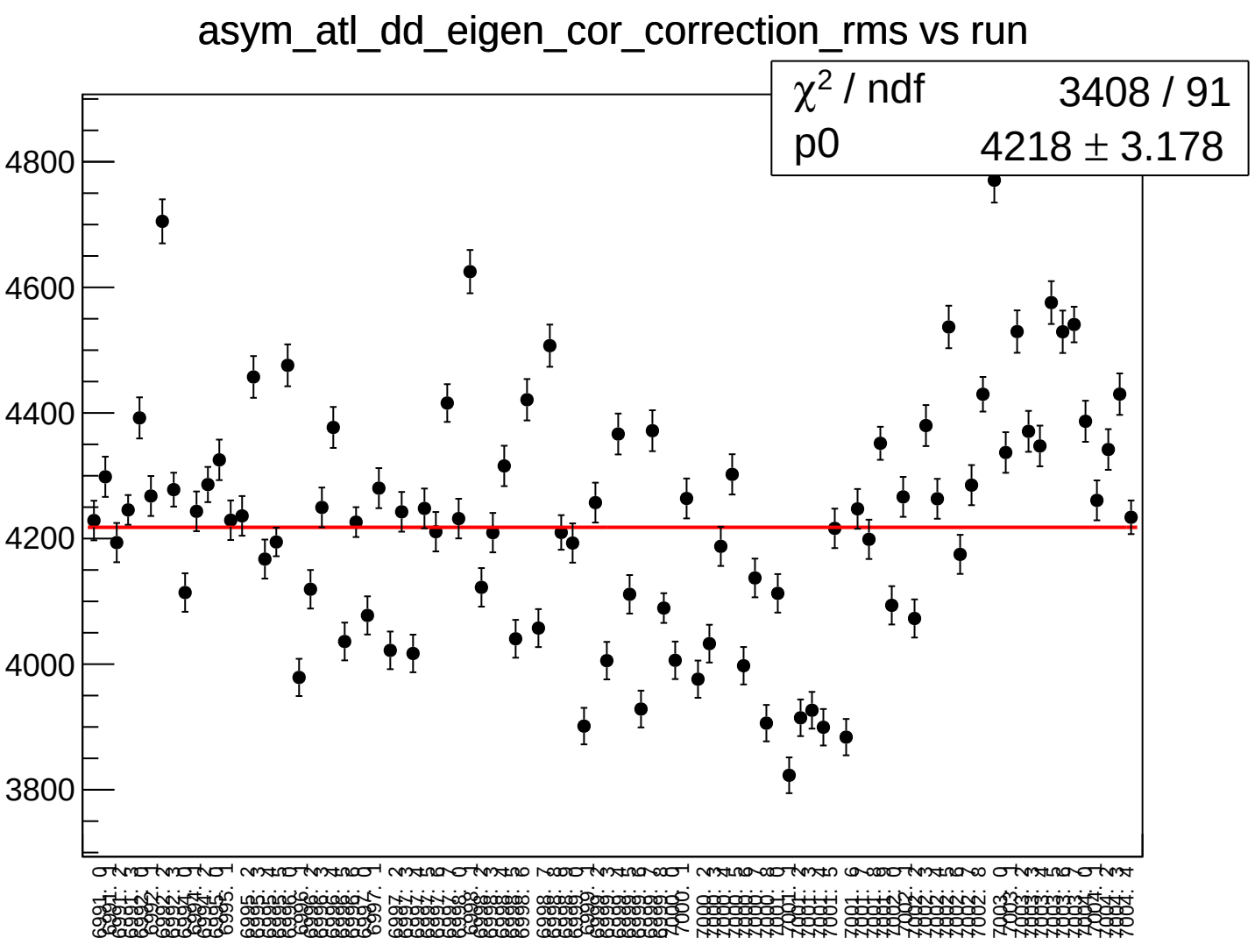

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 98.61 / 91
p0 −1045 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 2514
Std Dev 0
2
1
0
−1
−2

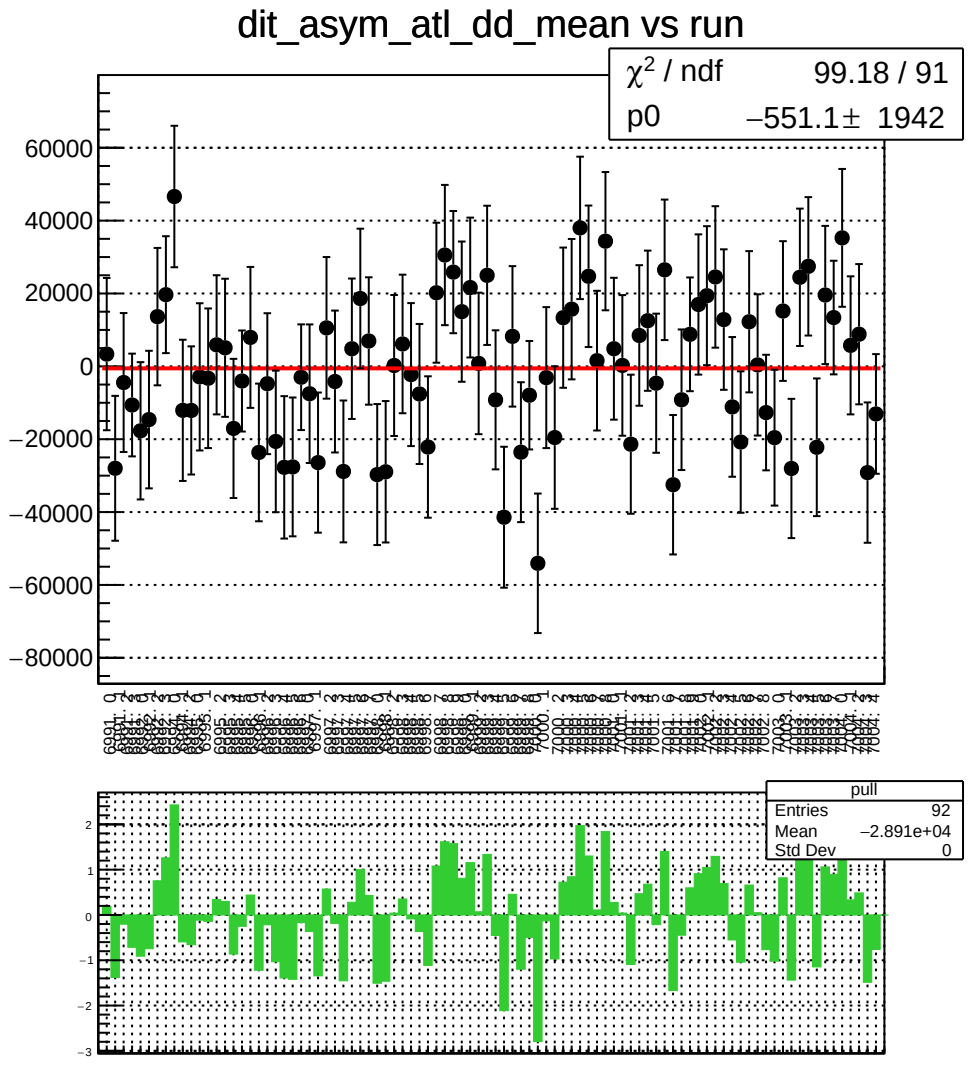

pull1D
Entries 92
Mean 0.001411
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

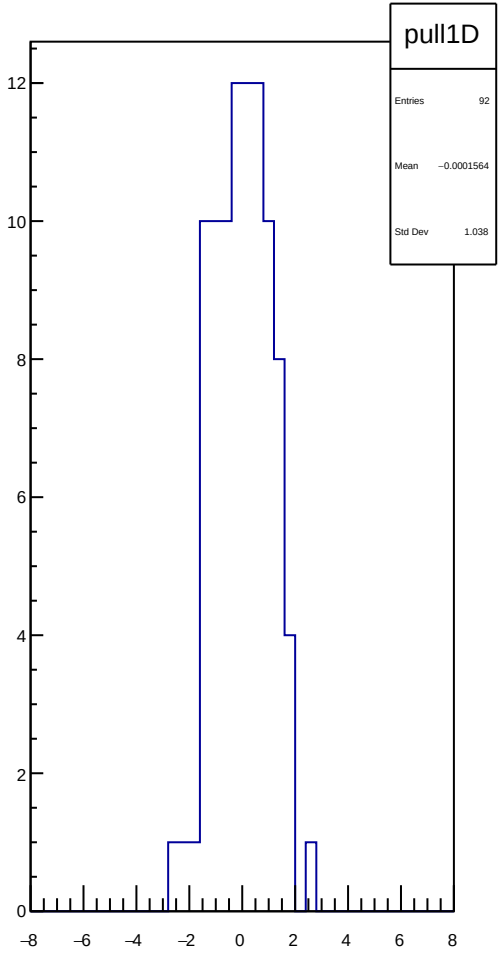

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 376.3 / 91
p0 1791 ± 1.348
1950
1900
1850
1800
1750
1700

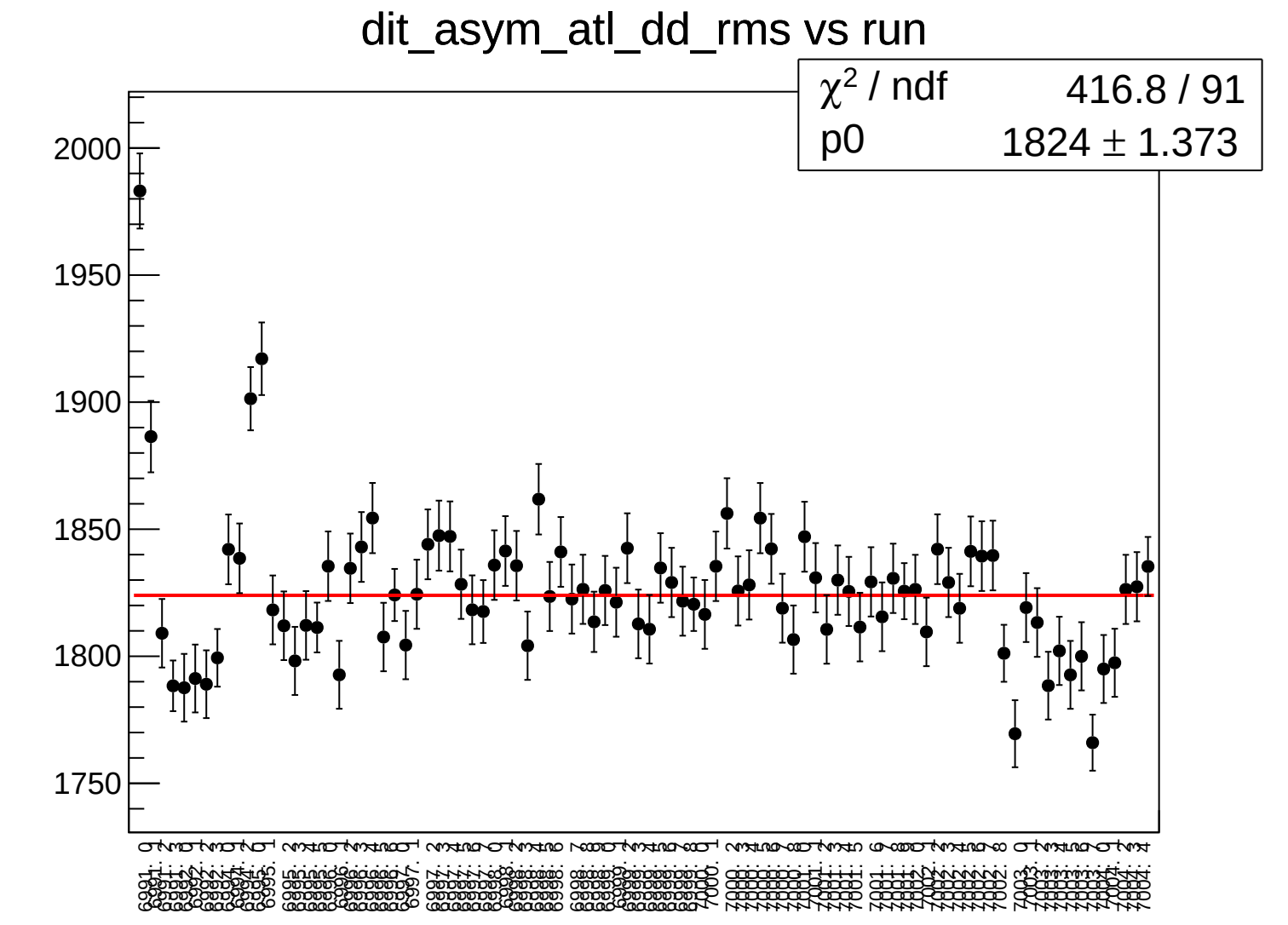

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.8 / 91
p0 3943 ± 4494
pull
Entries 92
Mean −2699
Std Dev 0

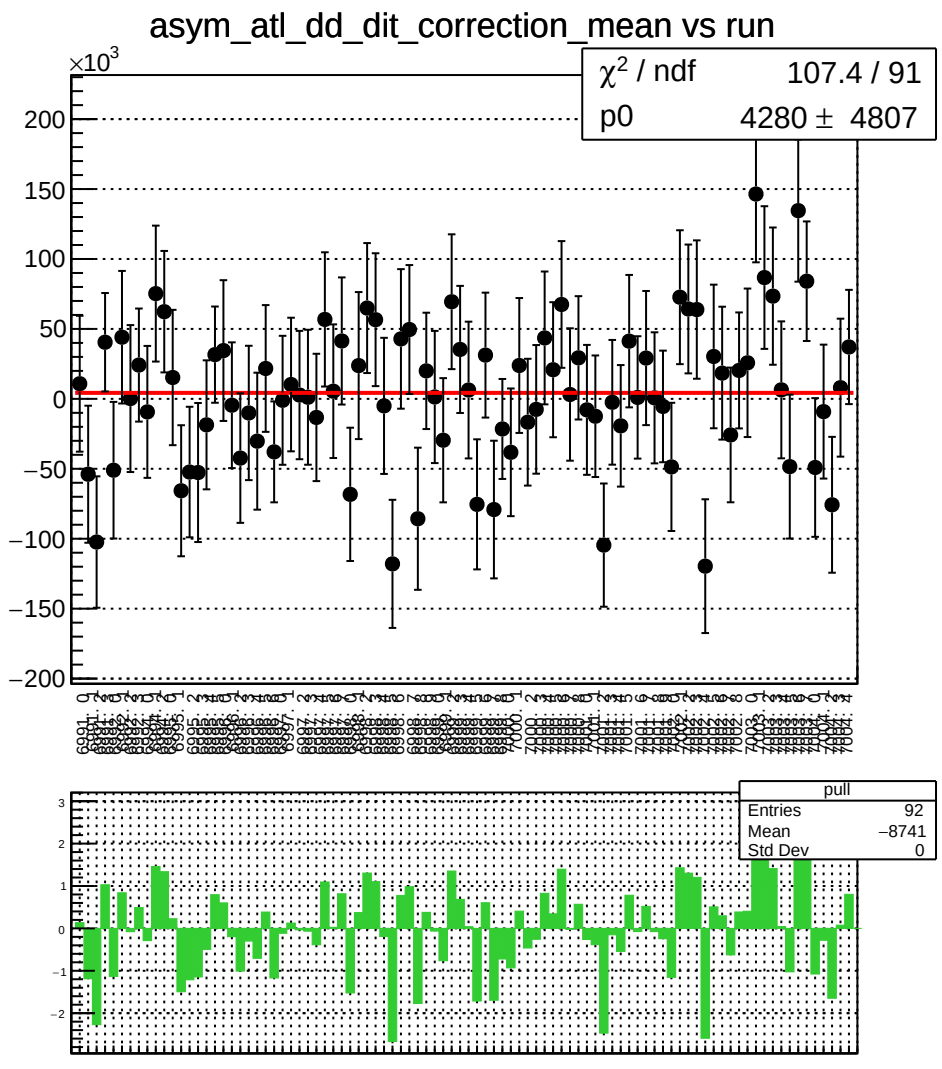

pull1D
Entries 92
Mean −0.001626
Std Dev 1.077

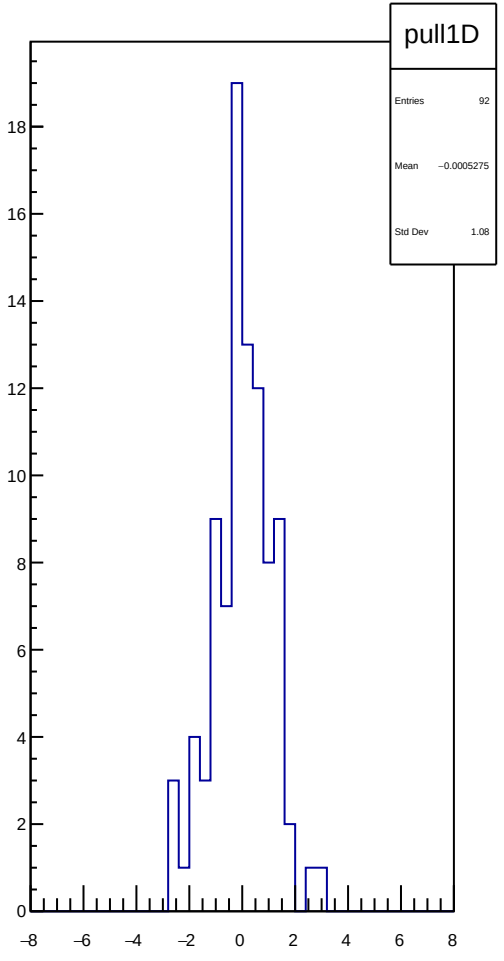

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 3408 / 91
p0 4218 ± 3.178
4800
4600
4400
4200
4000
3800

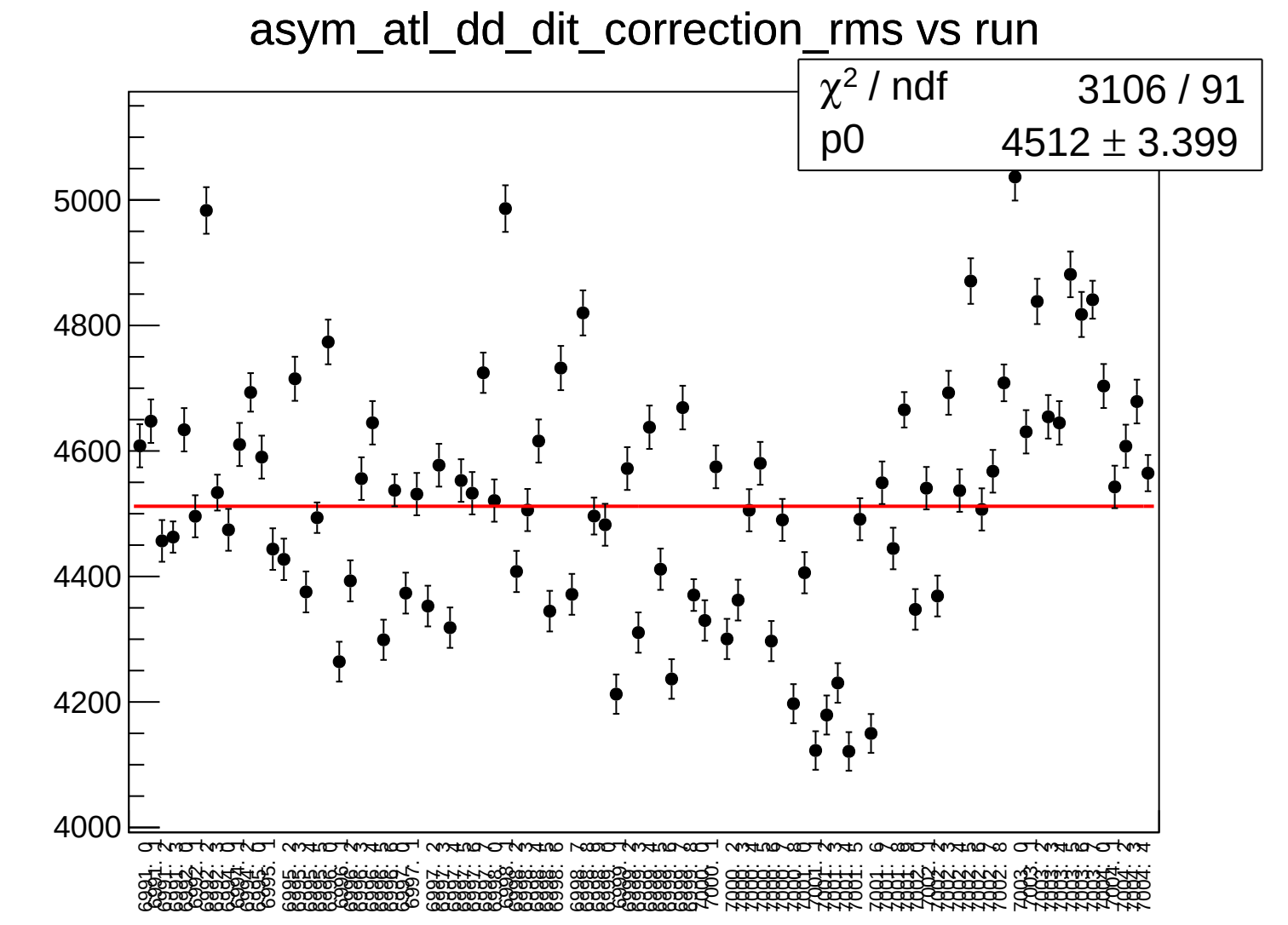

dit_asym_atl_dd_mean vs run
χ² / ndf 99.18 / 91
p0 −551.1± 1942
pull
Entries 92
Mean −2.891e+04
Std Dev 0

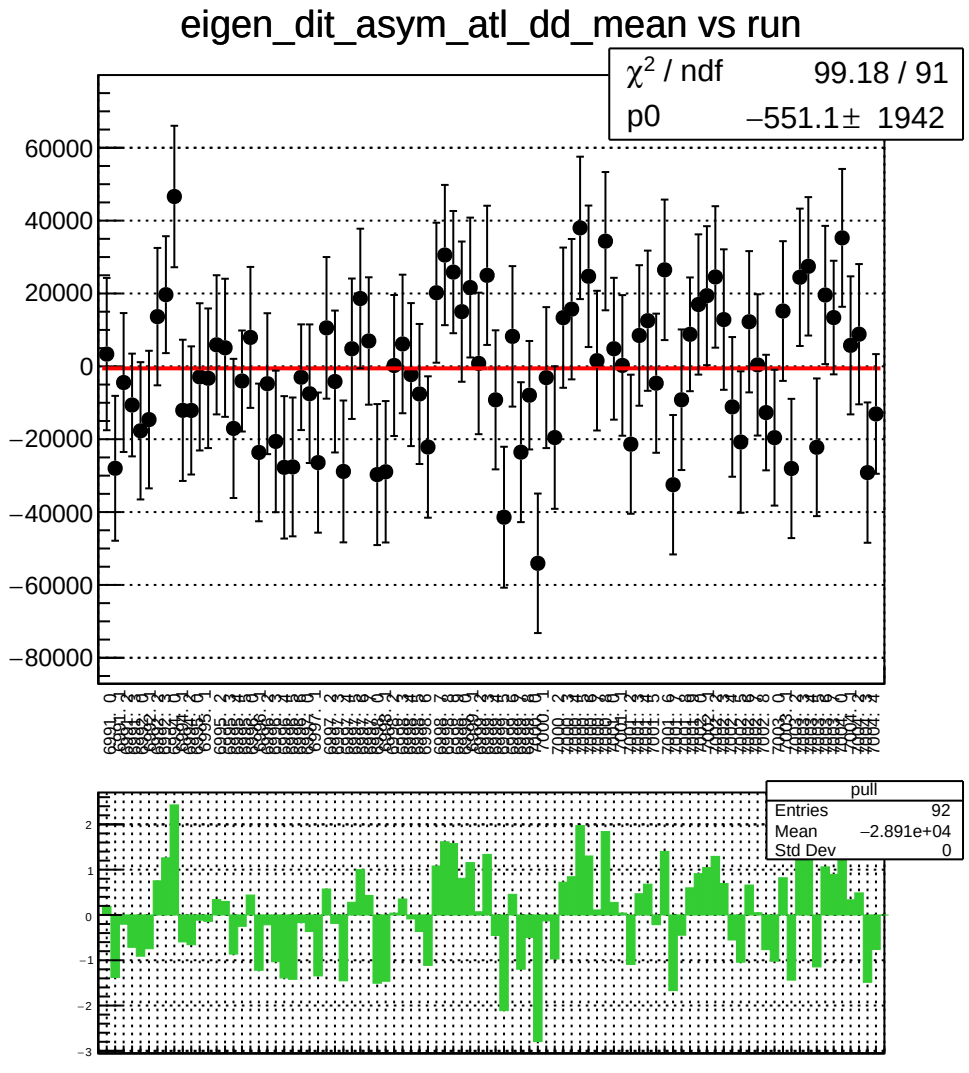

pull1D
Entries 92
Mean −0.0001564
Std Dev 1.038

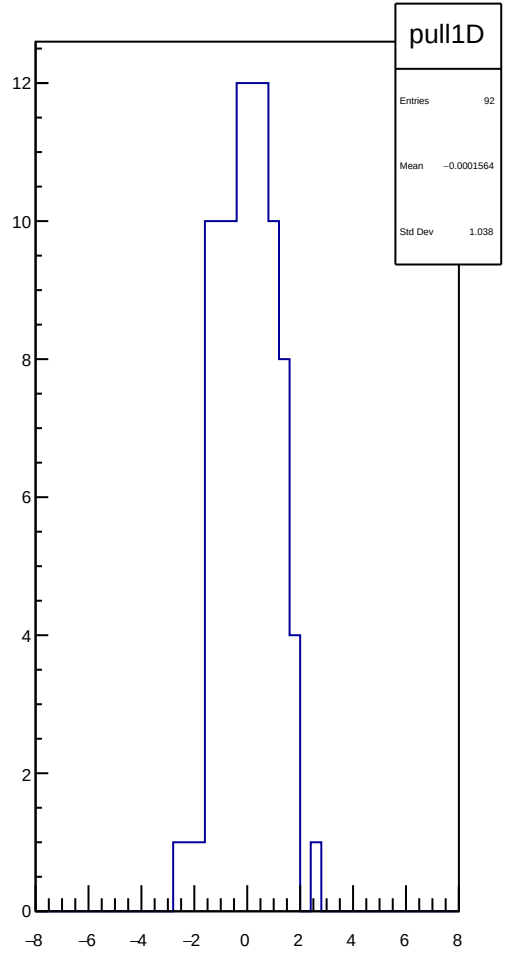

dit_asym_atl_dd_rms vs run
χ² / ndf 416.8 / 91
p0 1824 ± 1.373
2000
1950
1900
1850
1800
1750

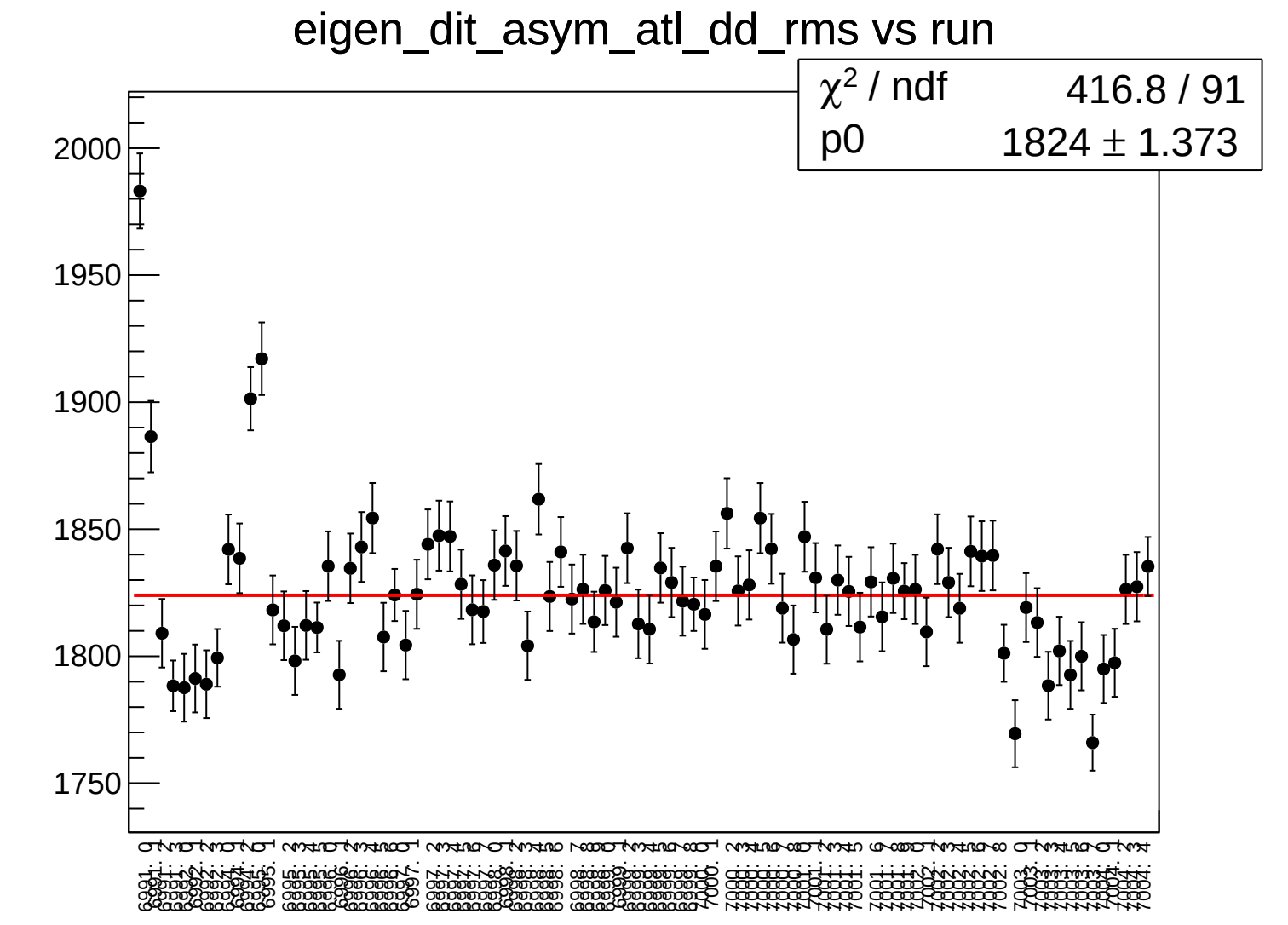

asym_atl_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.4 / 91
p0 4280 ± 4807
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −8741
Std Dev 0
3
2
1
0
−1
−2

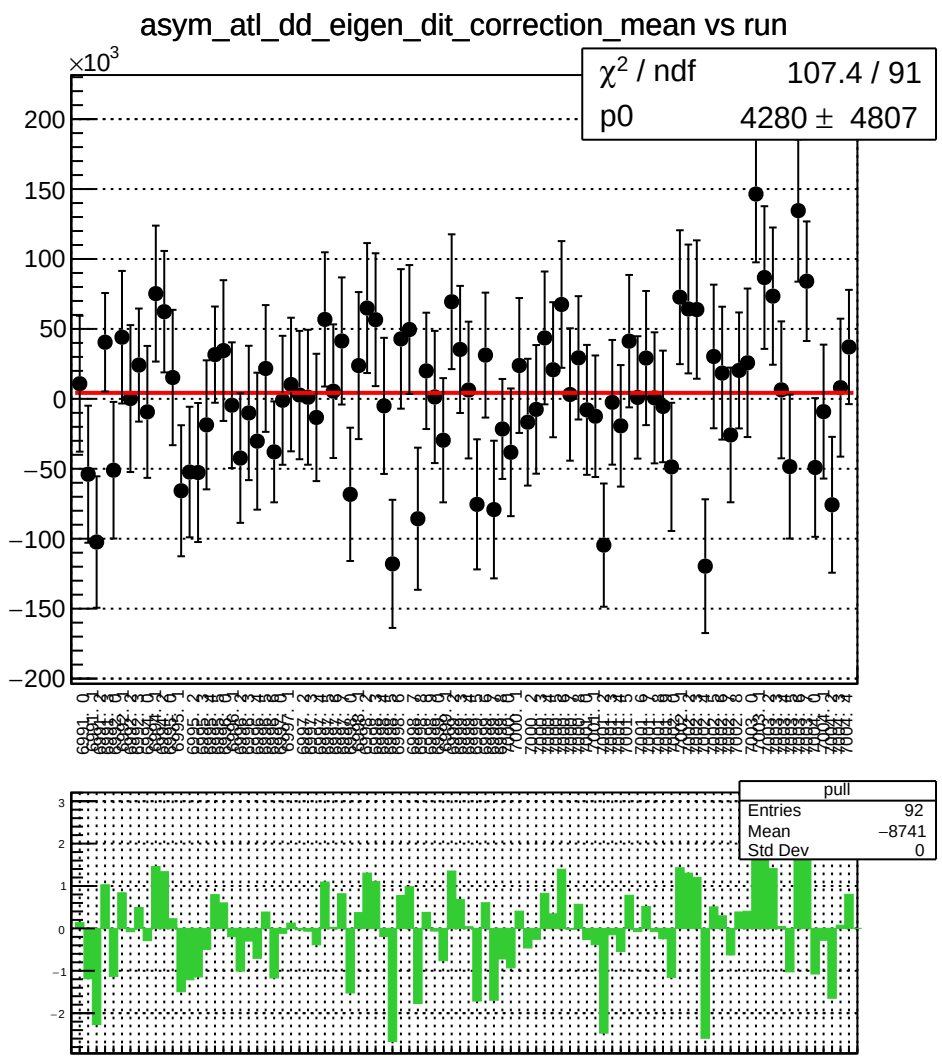

pull1D
Entries 92
Mean −0.0005275
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

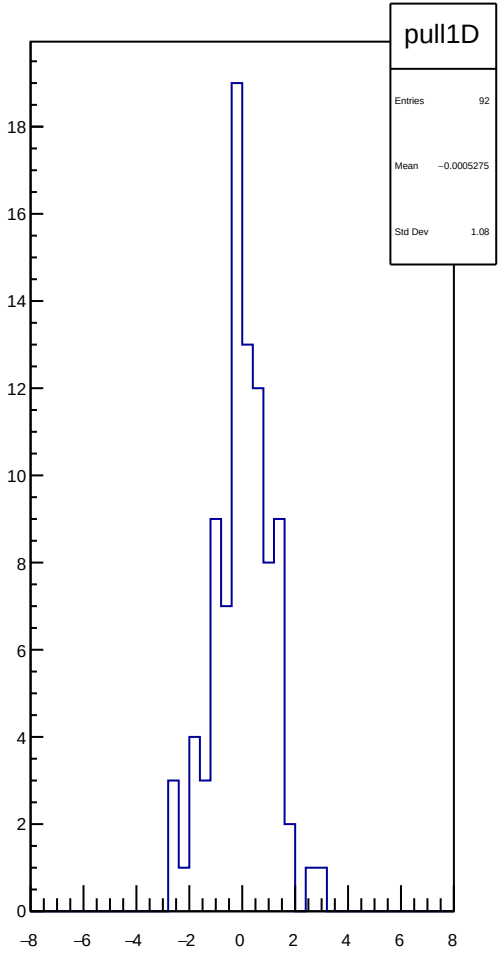

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 3106 / 91
p0 4512 ± 3.399
5000
4800
4600
4400
4200
4000

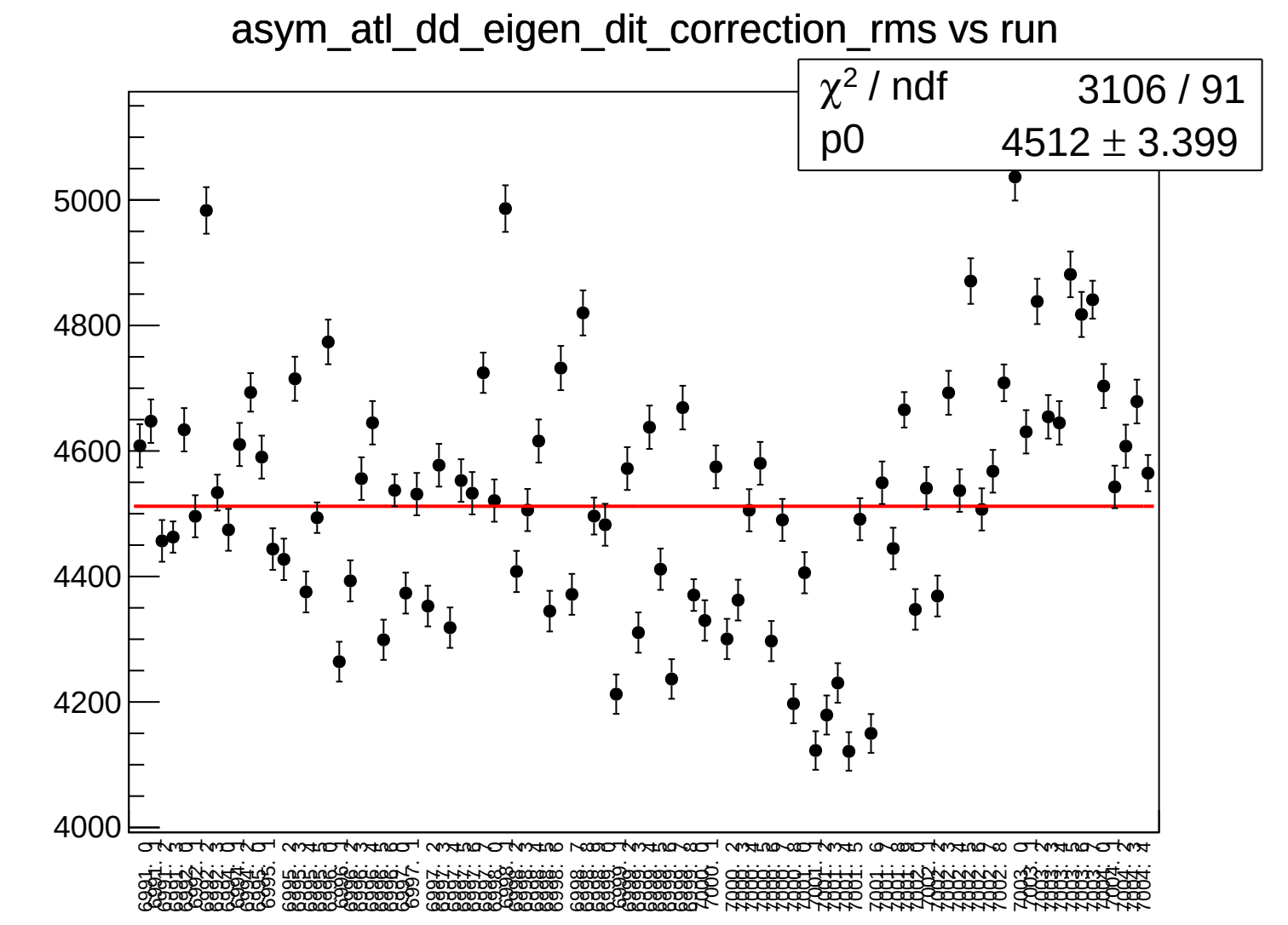

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 99.18 / 91
p0 −551.1± 1942
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −2.891e+04
Std Dev 0
2
1
0
−1
−2
−3

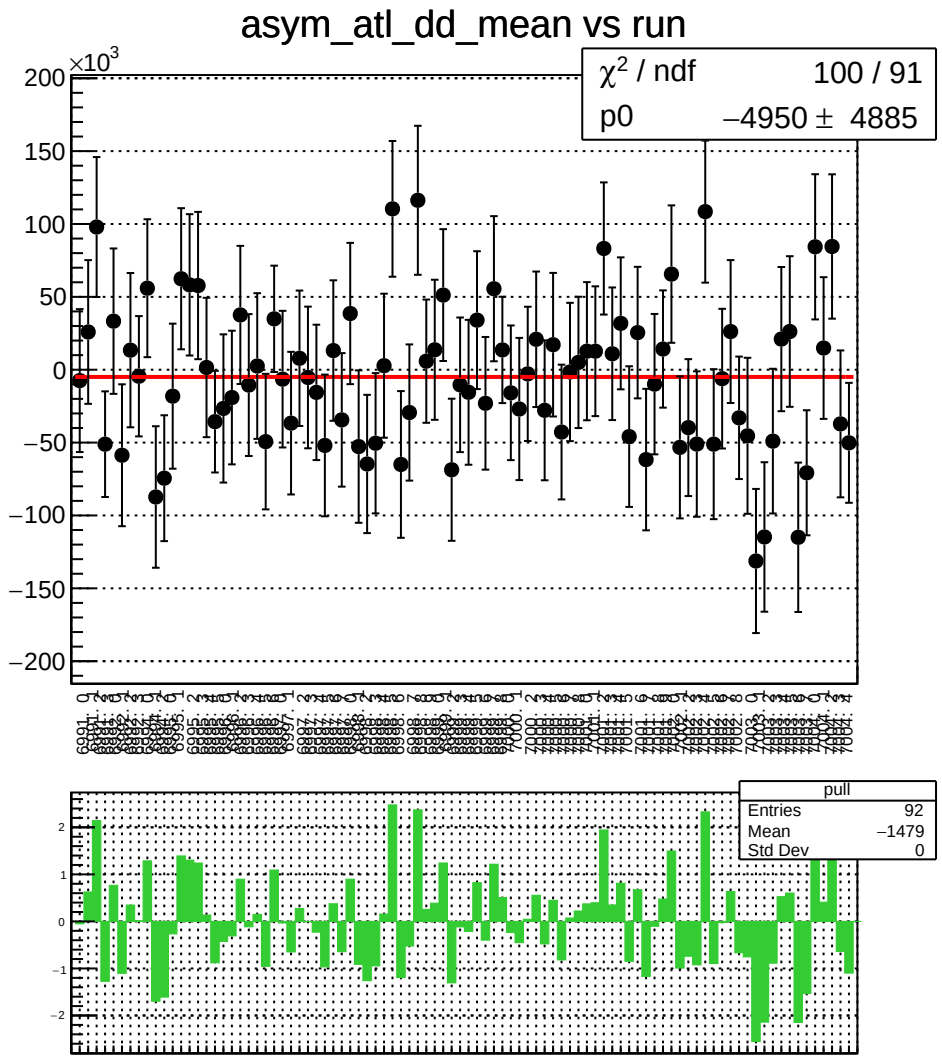

pull1D
Entries 92
Mean −0.0001564
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

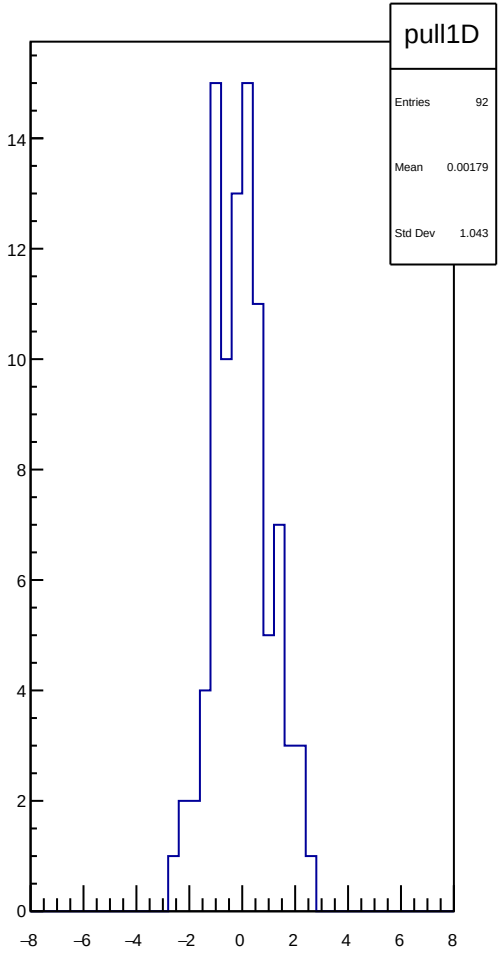

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 416.8 / 91
p0 1824 ± 1.373
2000
1950
1900
1850
1800
1750

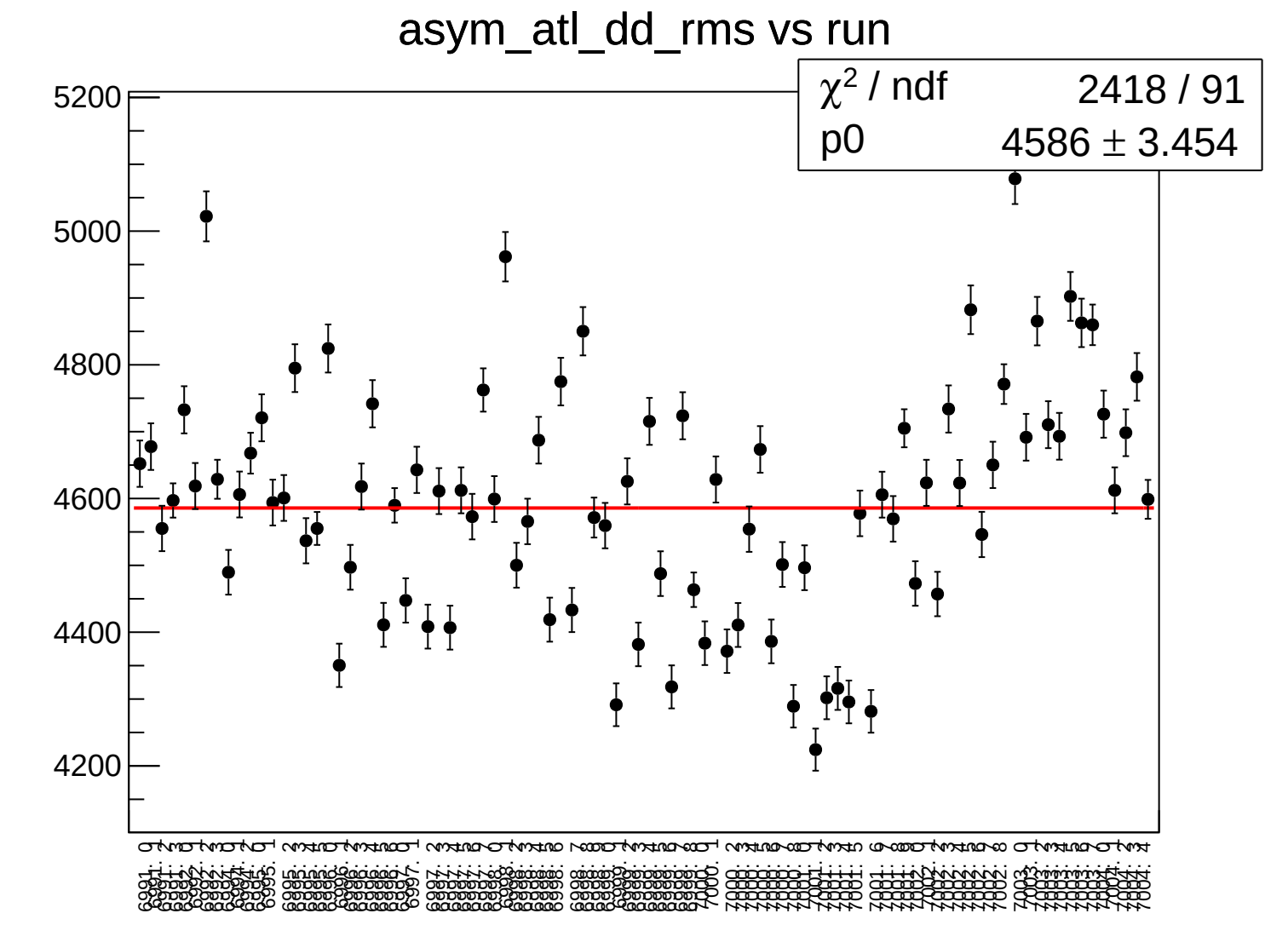

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.4 / 91
p0 4280 ± 4807
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −8741
Std Dev 0
3
2
1
0
−1
−2

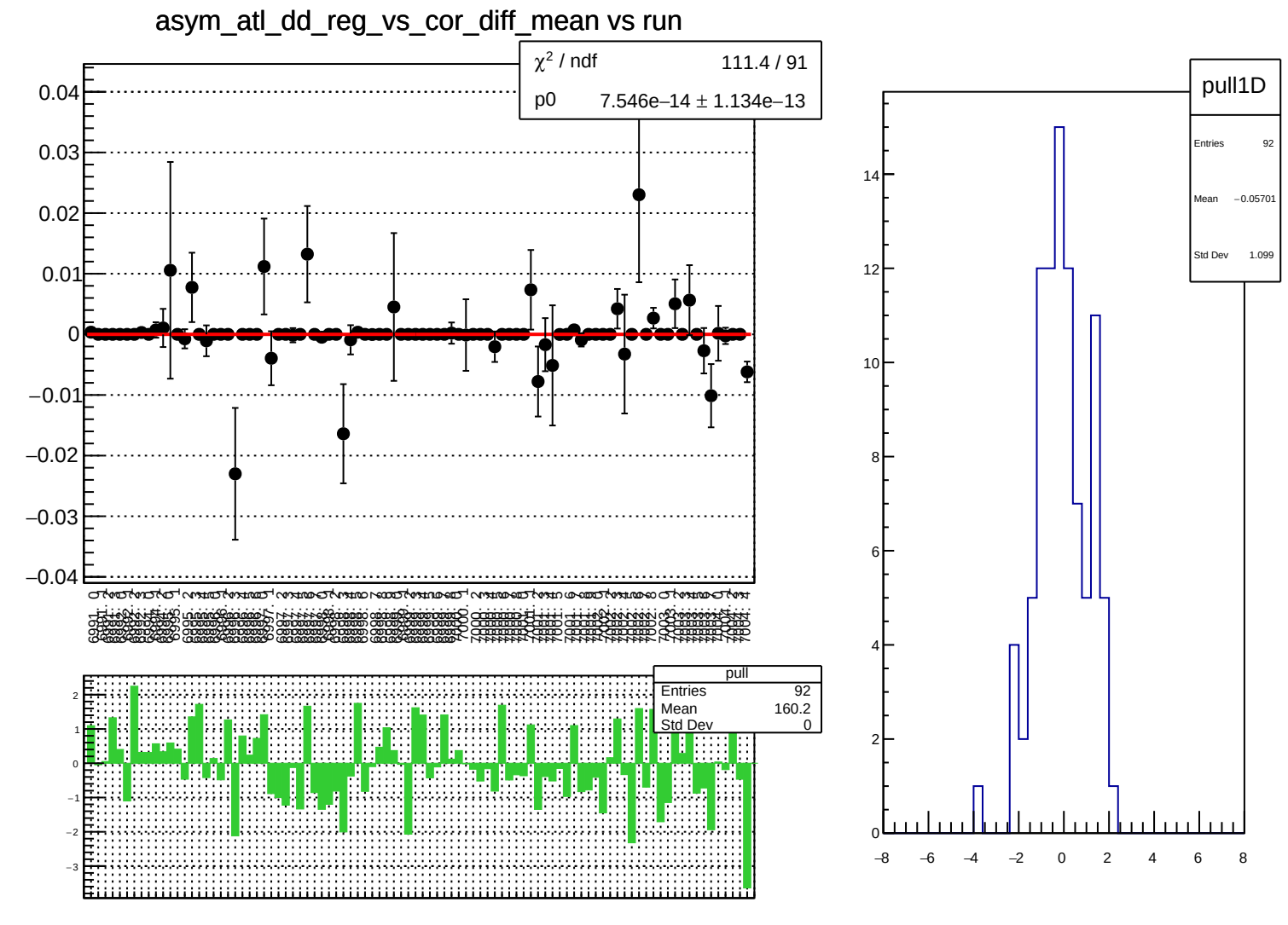

pull1D
Entries 92
Mean −0.0005275
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

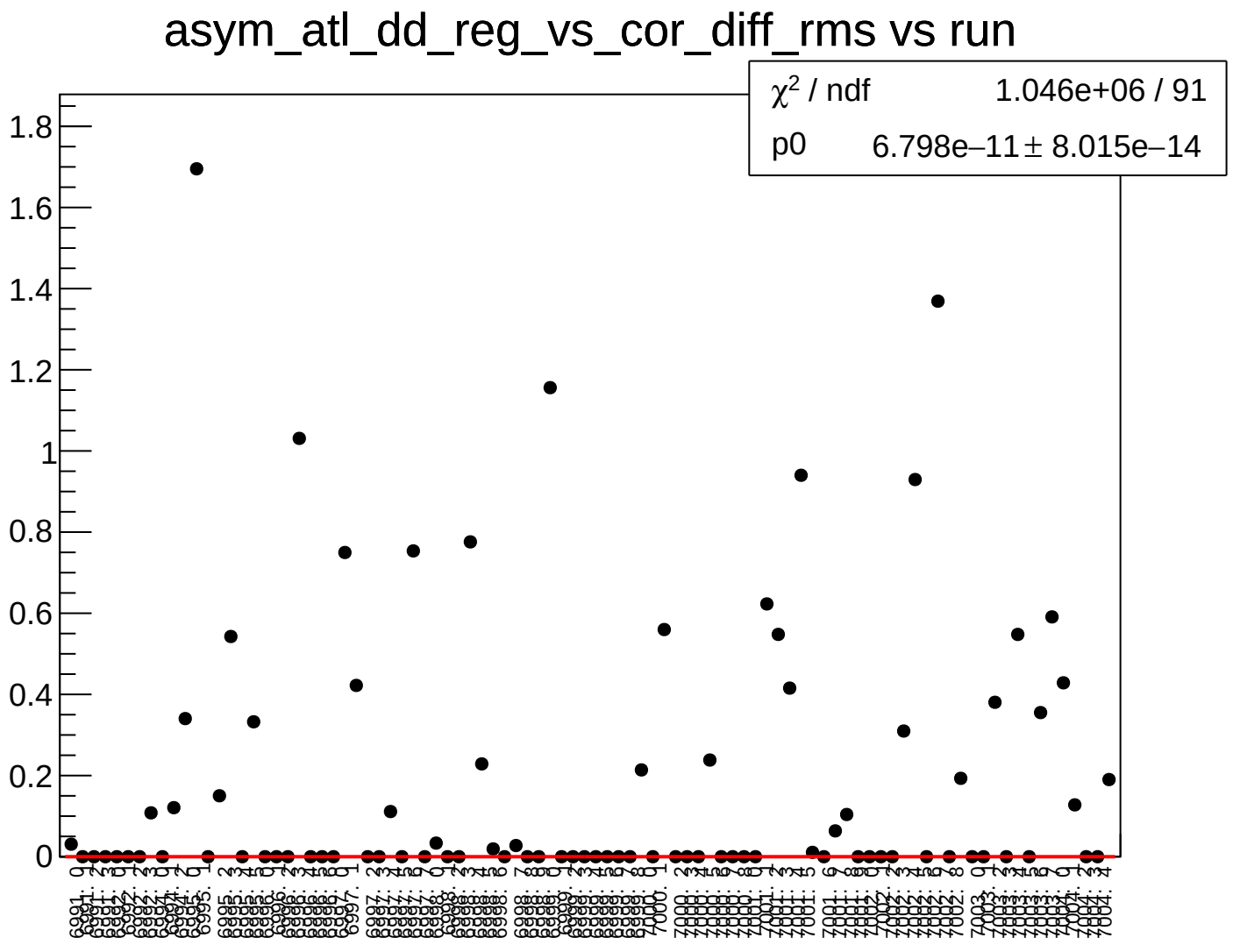

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 3106 / 91
p0 4512 ± 3.399
5000
4800
4600
4400
4200
4000

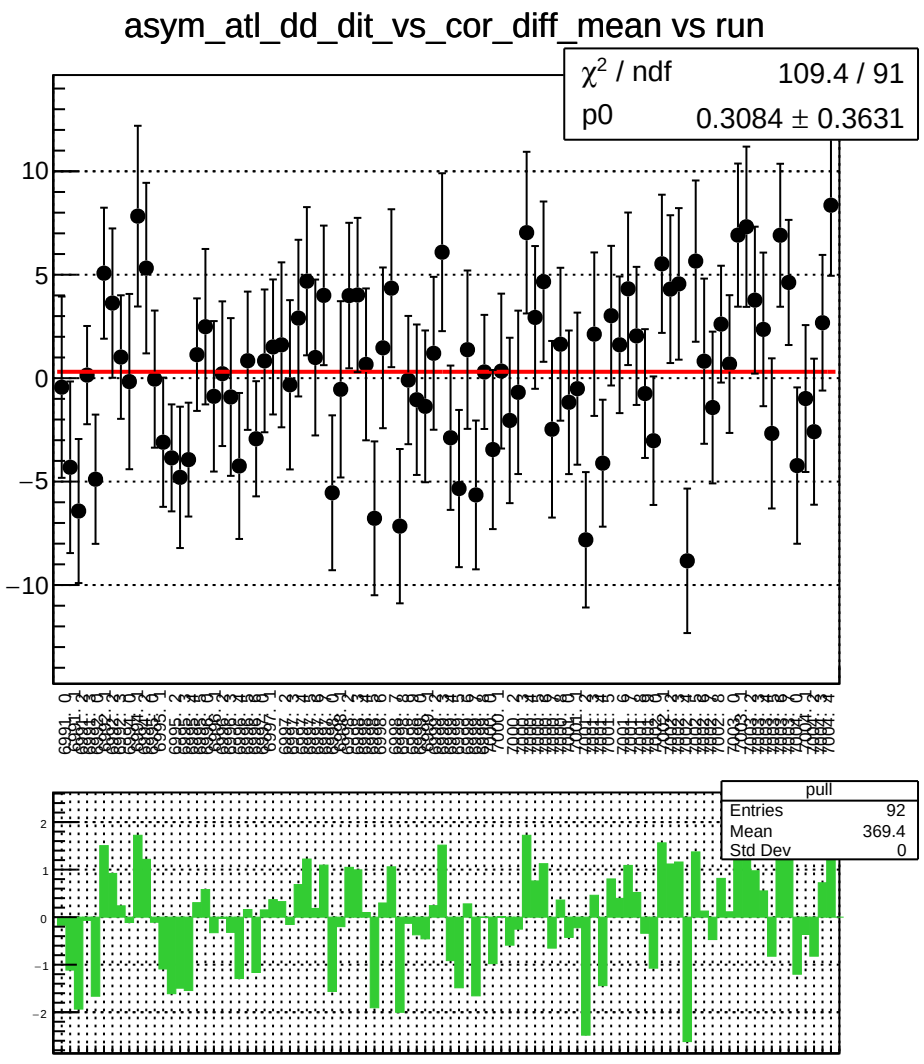

asym_atl_dd_mean vs run
×10^3
χ² / ndf 100 / 91
p0 −4950 ± 4885
pull
Entries 92
Mean −1479
Std Dev 0

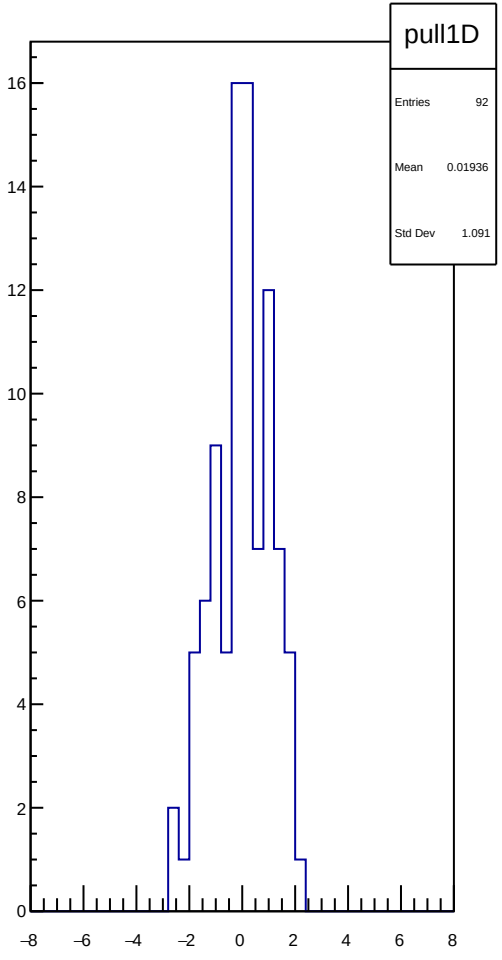

pull1D
Entries 92
Mean 0.00179
Std Dev 1.043

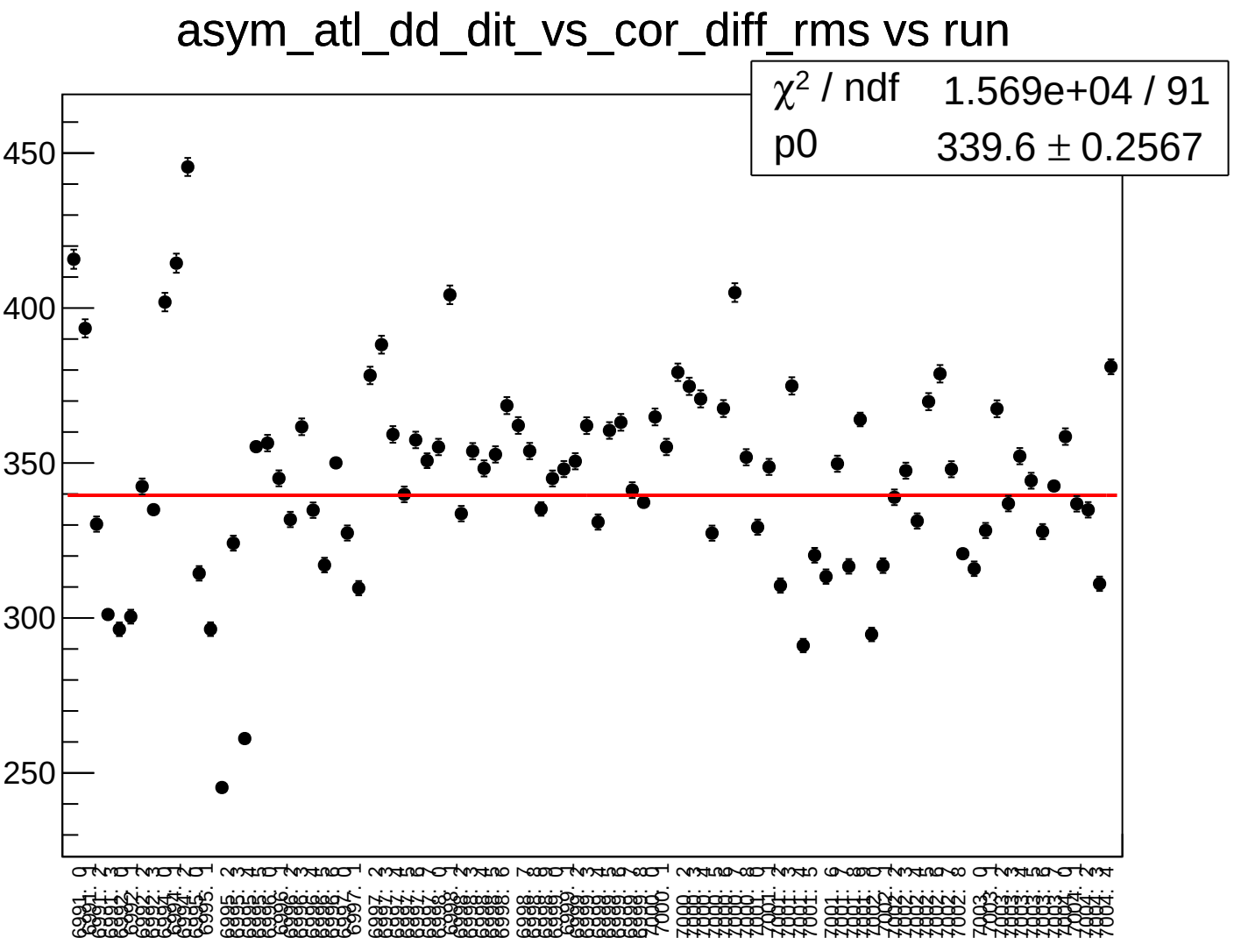

asym_atl_dd_rms vs run
χ^2 / ndf 2418 / 91
p0 4586 ± 3.454
5200
5000
4800
4600
4400
4200

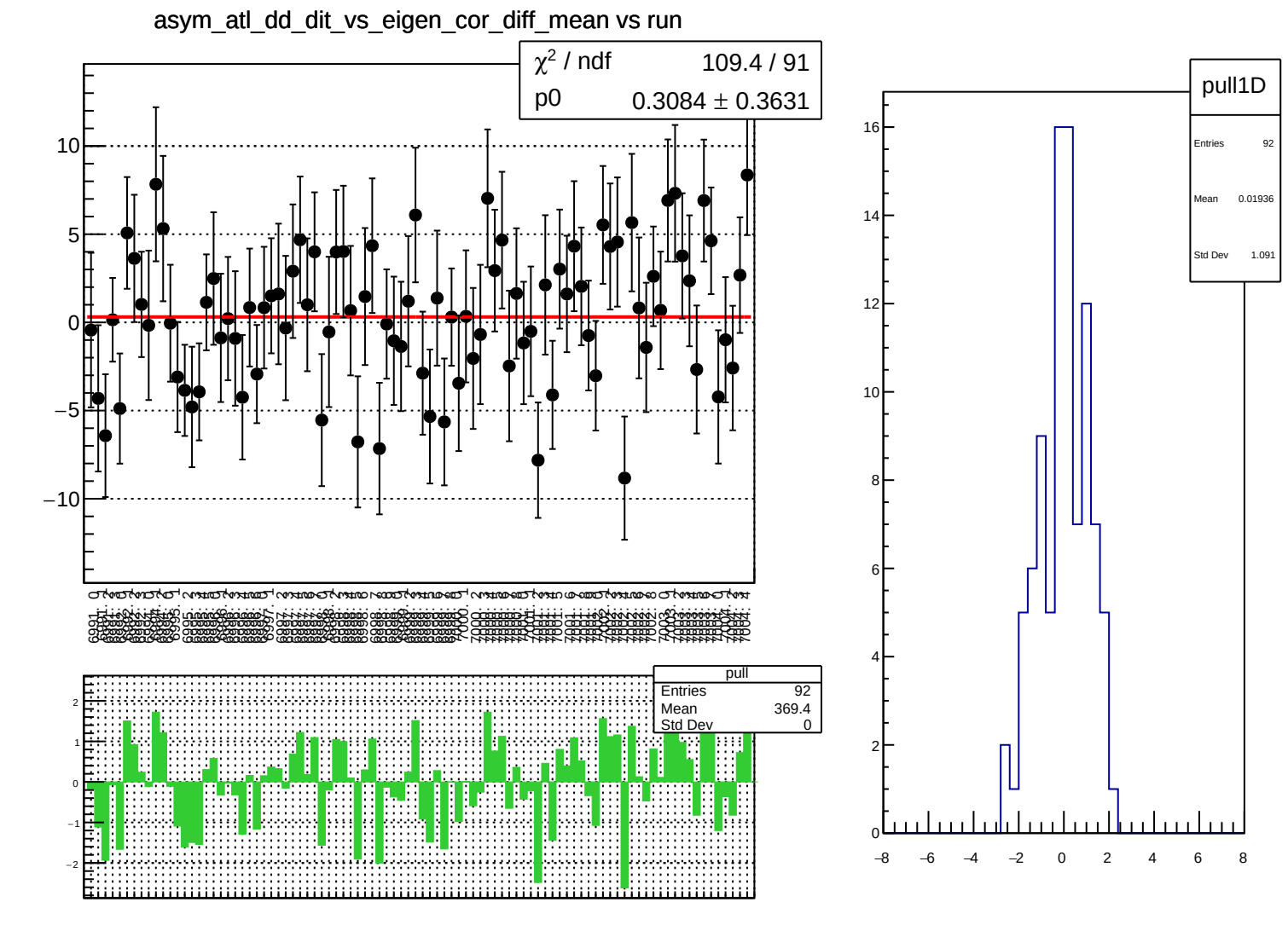

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.4 / 91
p0 7.546e−14 ± 1.134e−13
pull
Entries 92
Mean 160.2
Std Dev 0
pull1D
Entries 92
Mean −0.05701
Std Dev 1.099

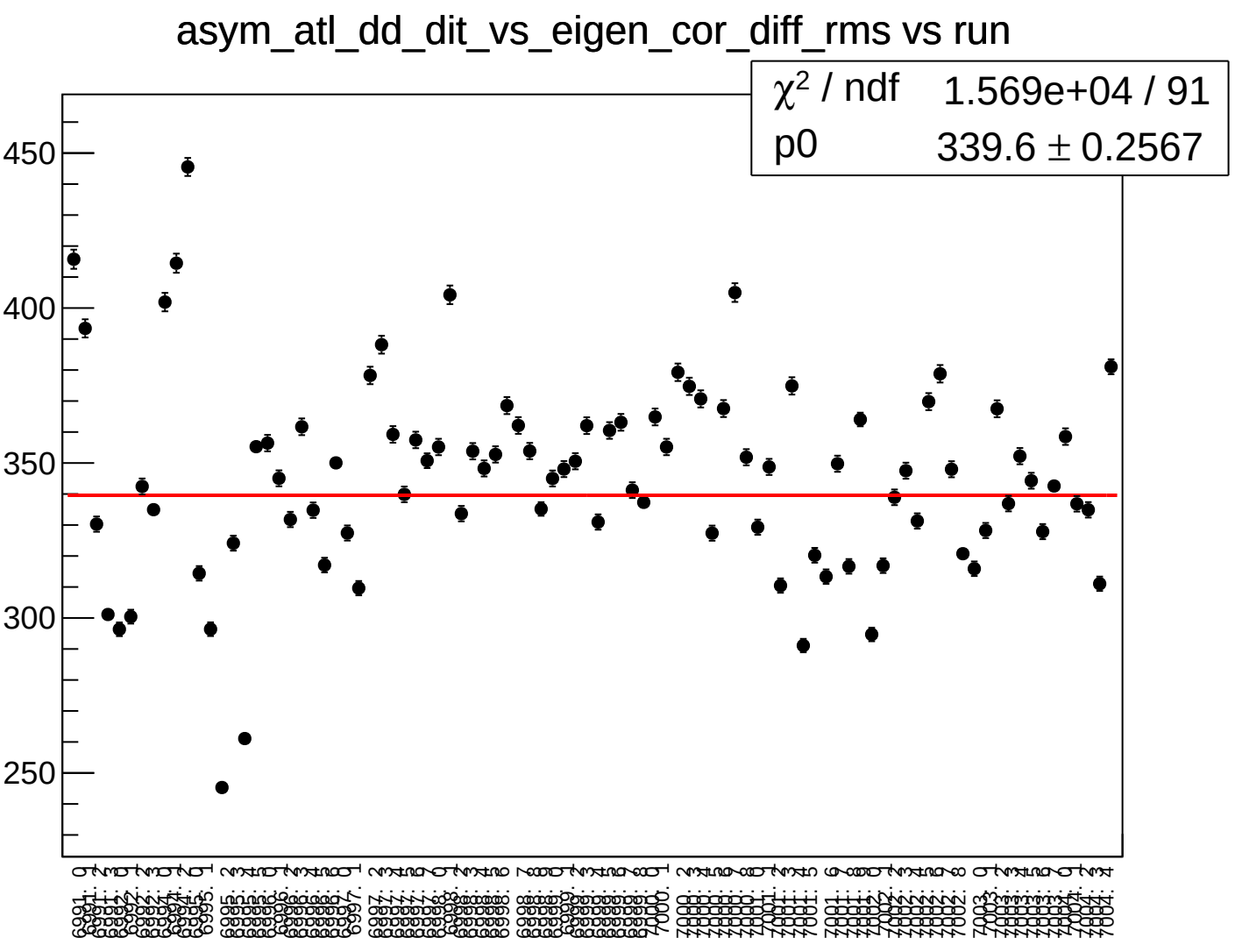

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.046e+06 / 91
p0 6.798e−11 ± 8.015e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

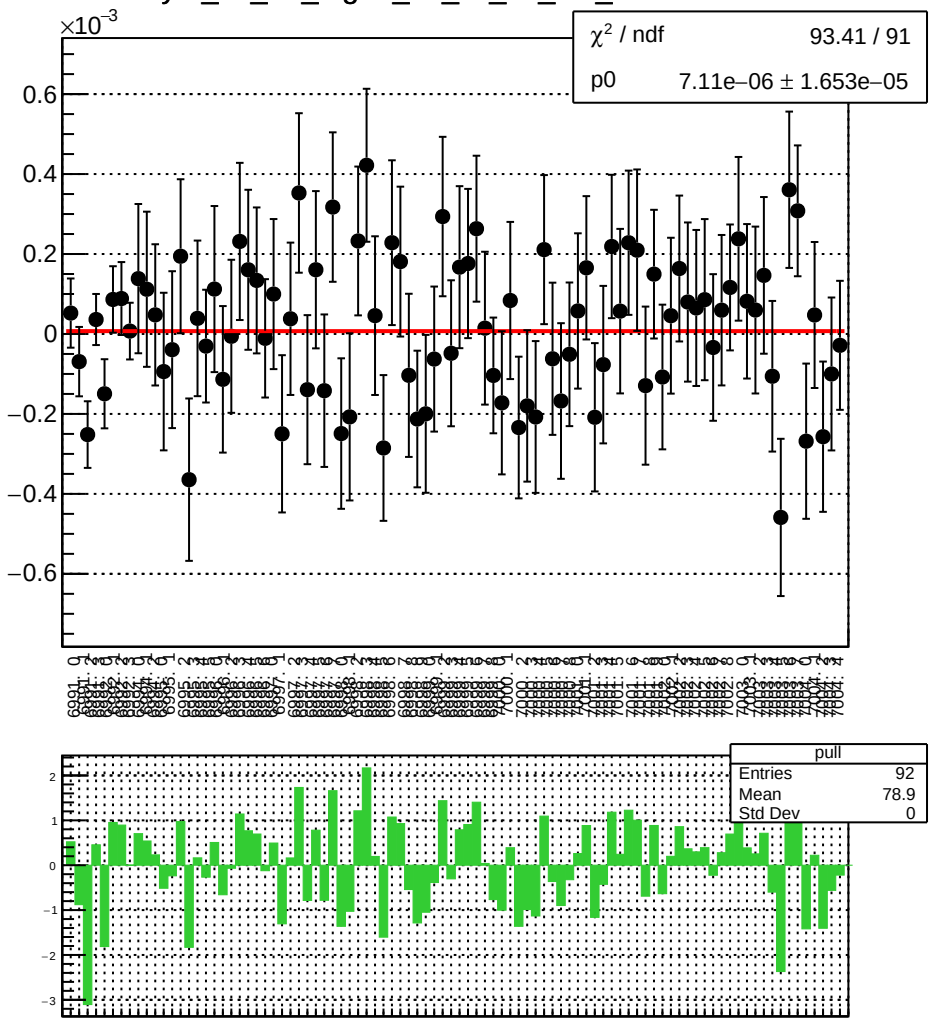

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 91
p0 0.3084 ± 0.3631
pull
Entries 92
Mean 369.4
Std Dev 0

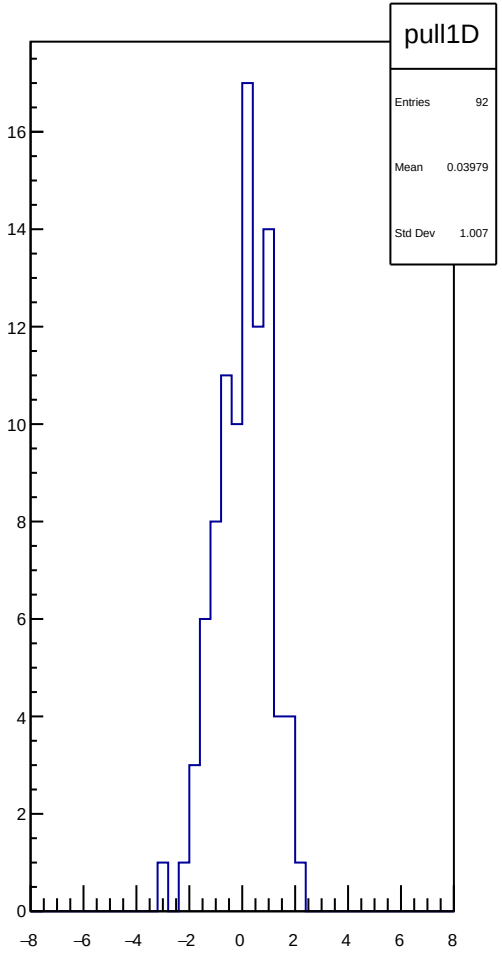

pull1D
Entries 92
Mean 0.01936
Std Dev 1.091

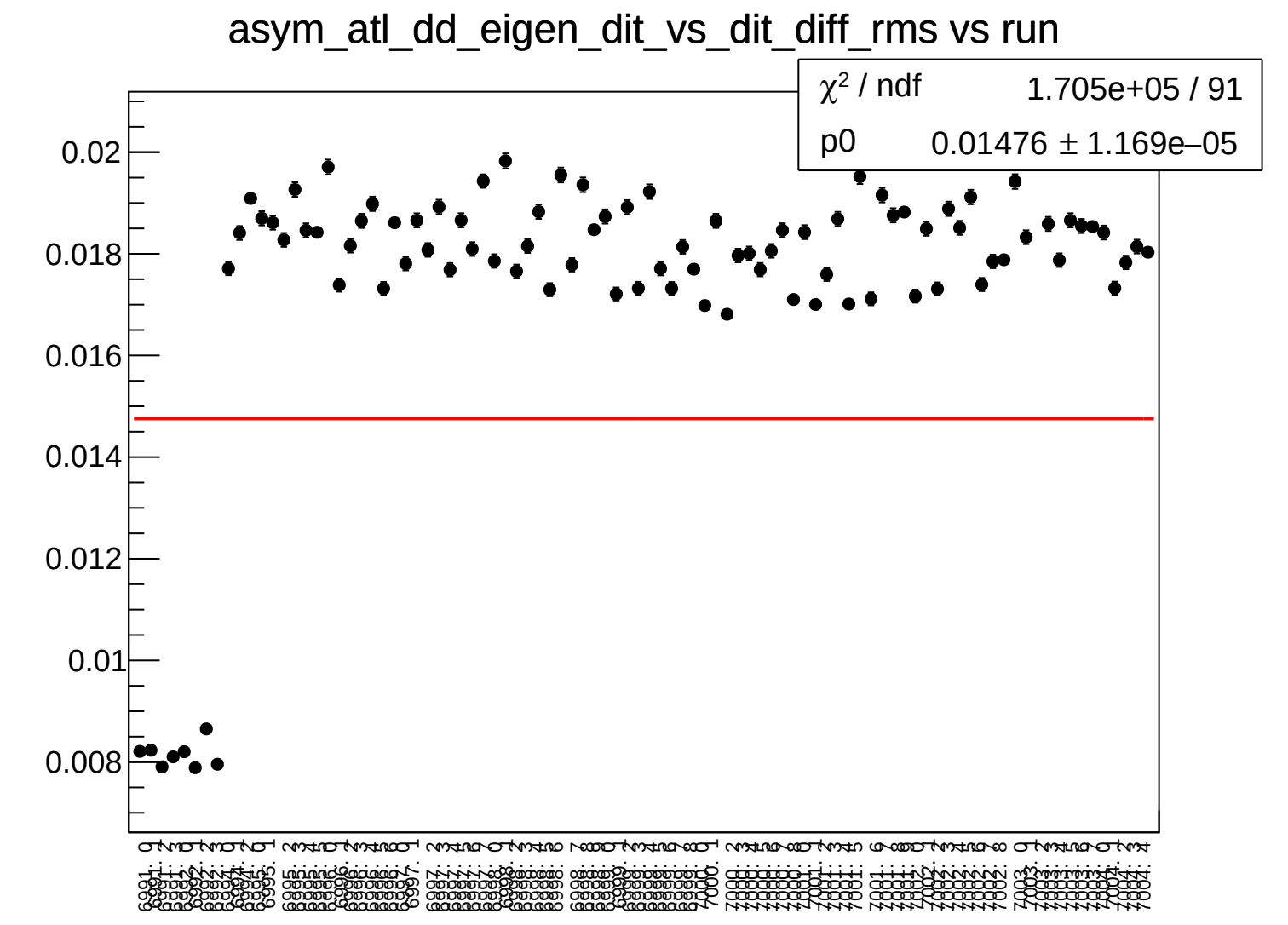

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.569e+04 / 91
p0 339.6 ± 0.2567
450
400
350
300
250

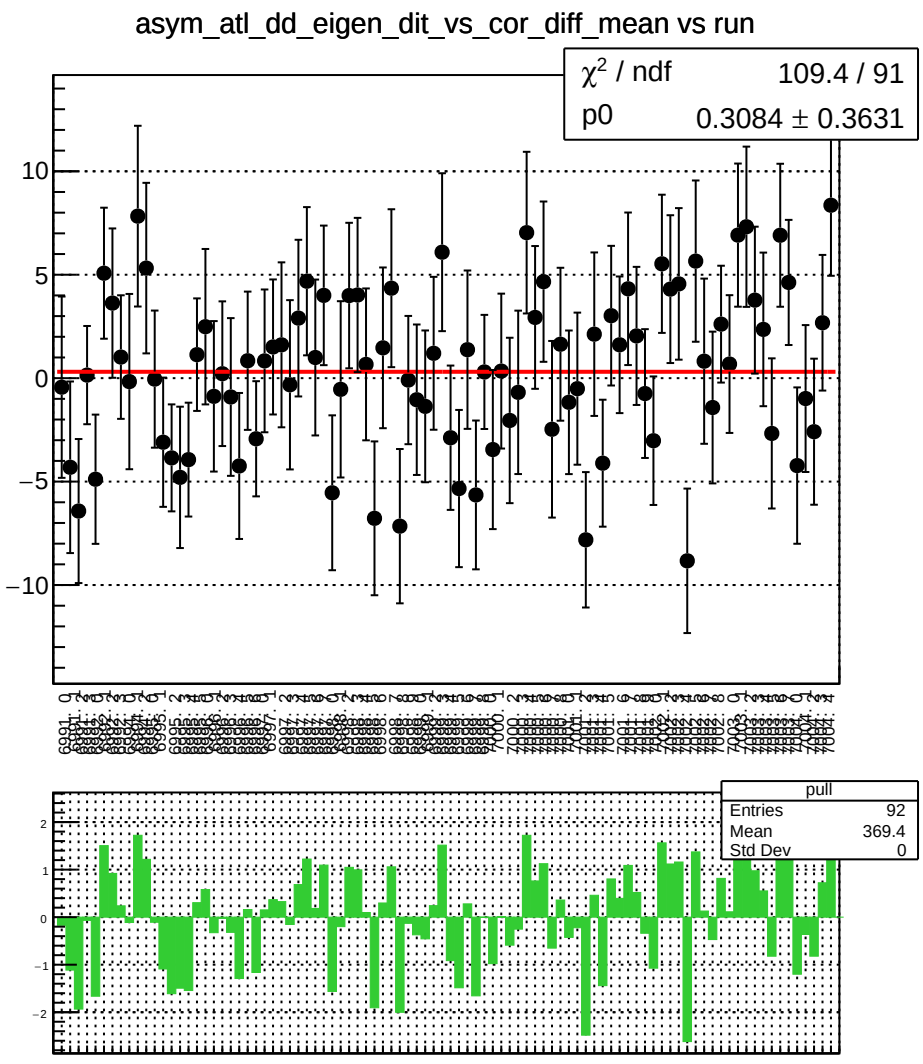

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.4 / 91
p0 0.3084 ± 0.3631
pull
Entries 92
Mean 369.4
Std Dev 0
pull1D
Entries 92
Mean 0.01936
Std Dev 1.091

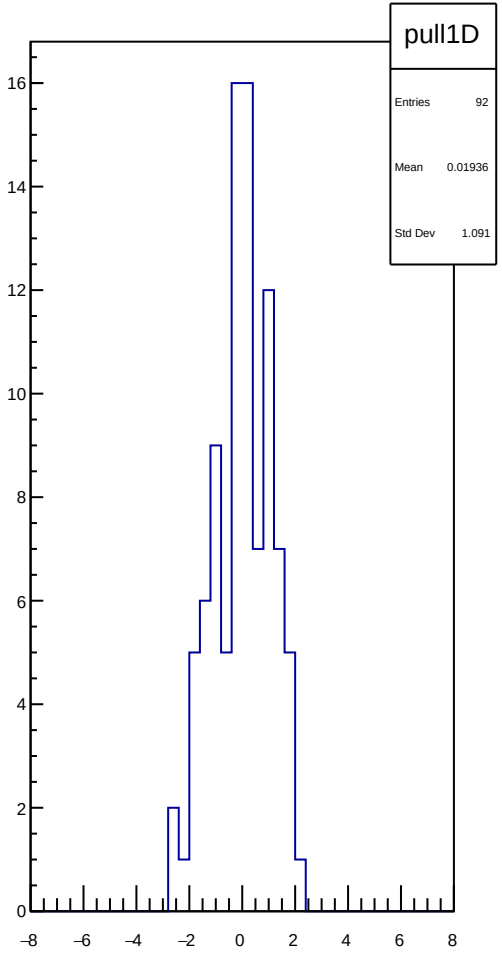

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.569e+04 / 91
p0 339.6 ± 0.2567
450
400
350
300
250

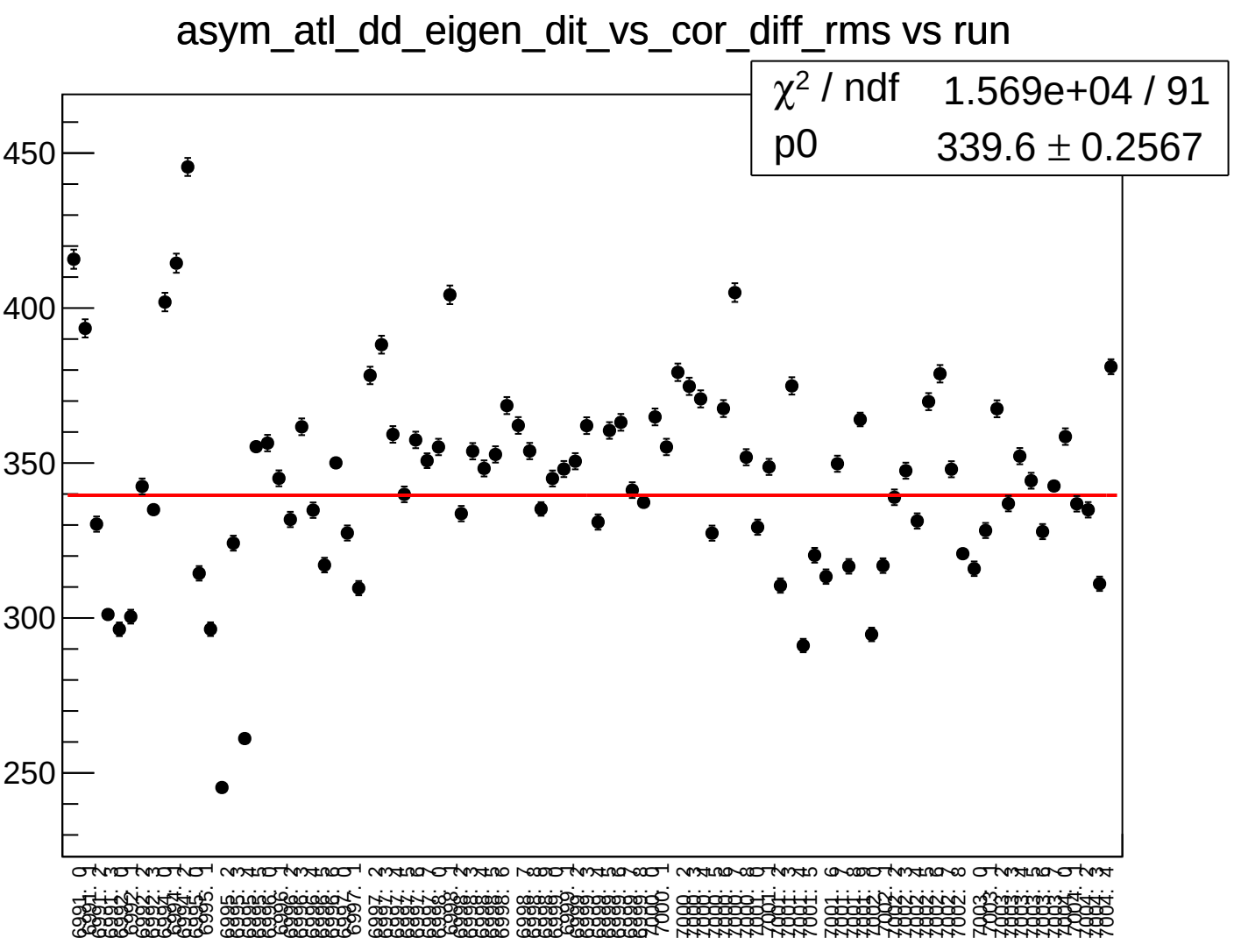

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.41 / 91
p0 7.11e−06 ± 1.653e−05
pull
Entries 92
Mean 78.9
Std Dev 0

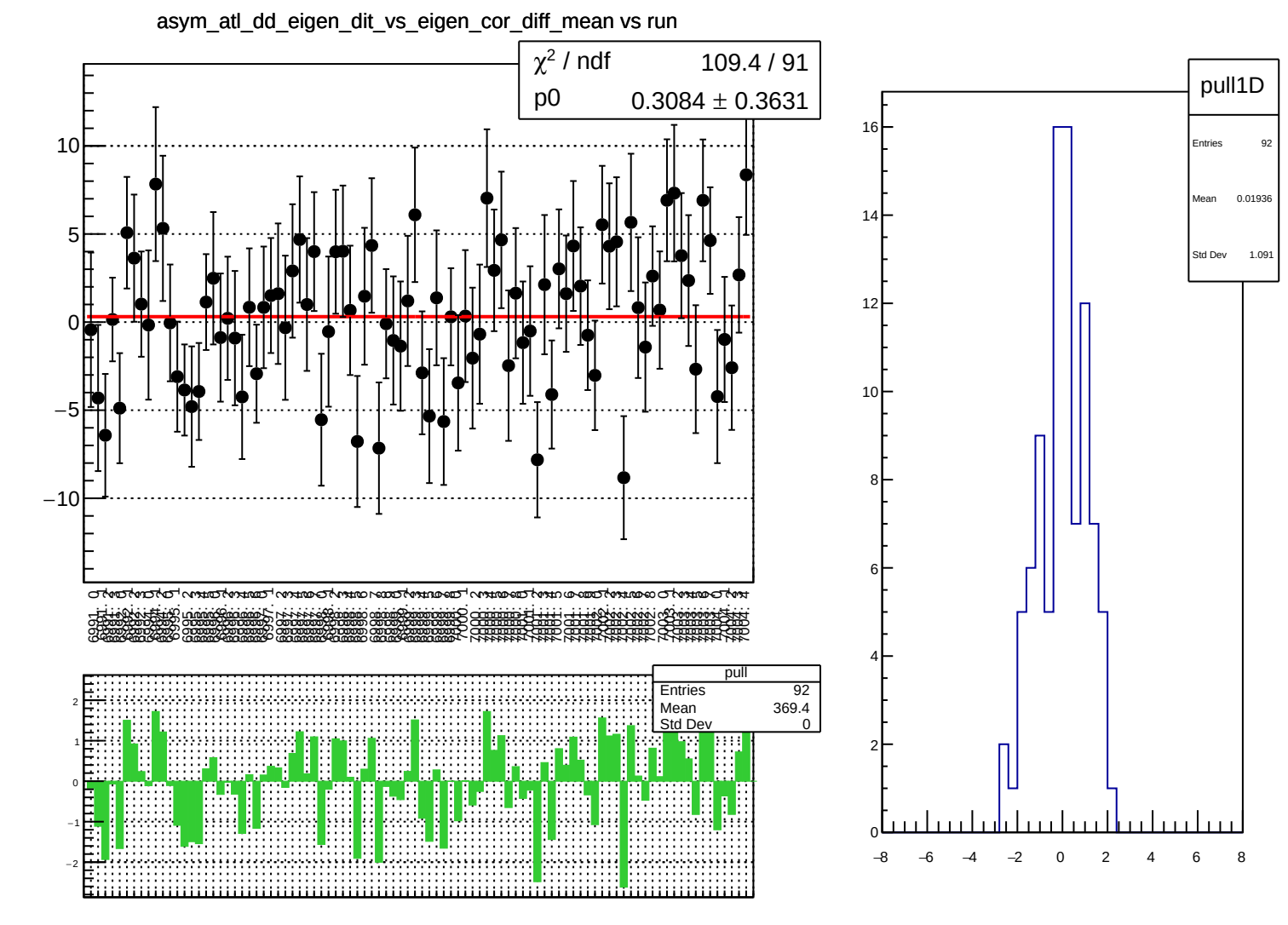

pull1D
Entries 92
Mean 0.03979
Std Dev 1.007

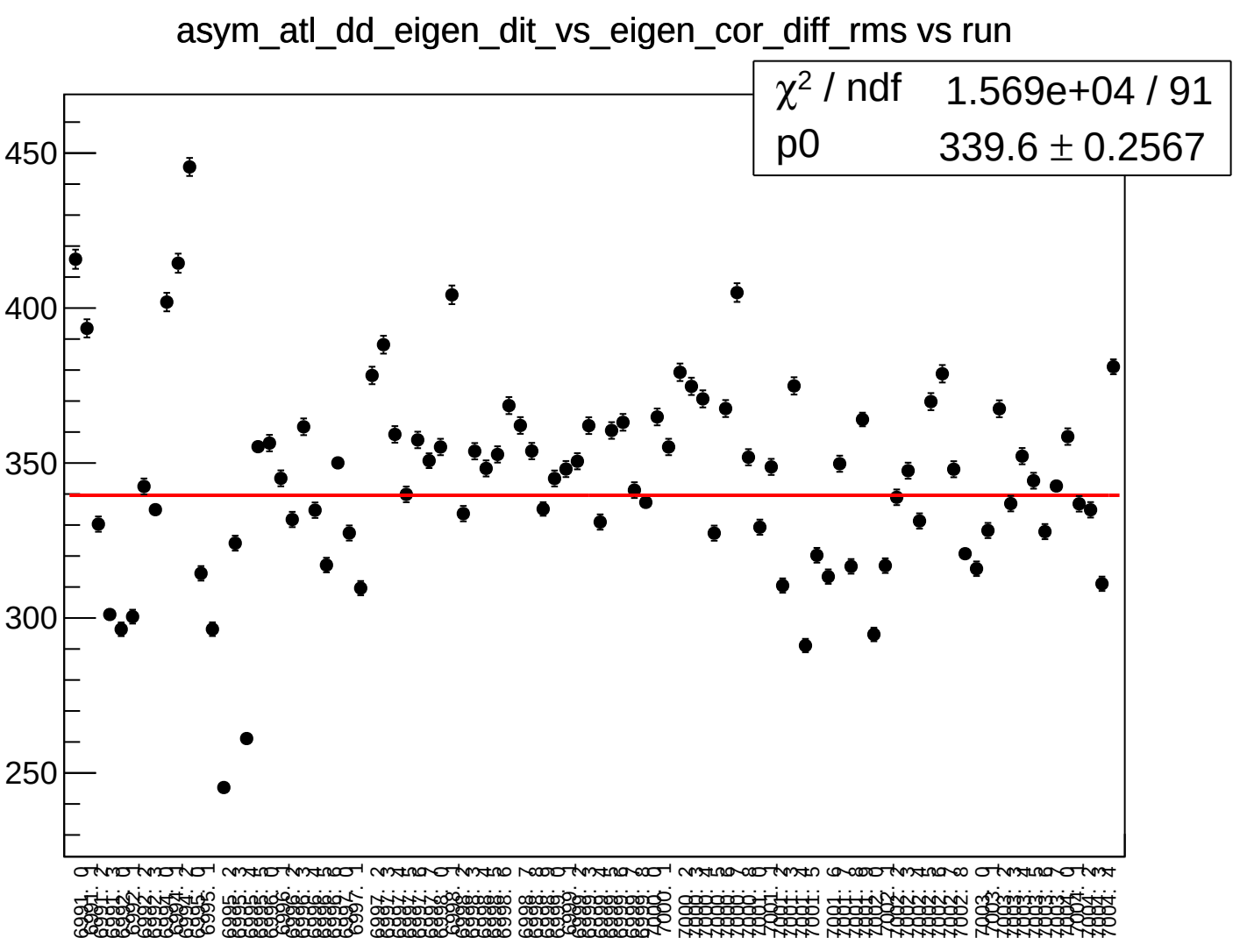

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.705e+05 / 91
p0 0.01476 ± 1.169e−05
0.02
0.018
0.016
0.014
0.012
0.01
0.008

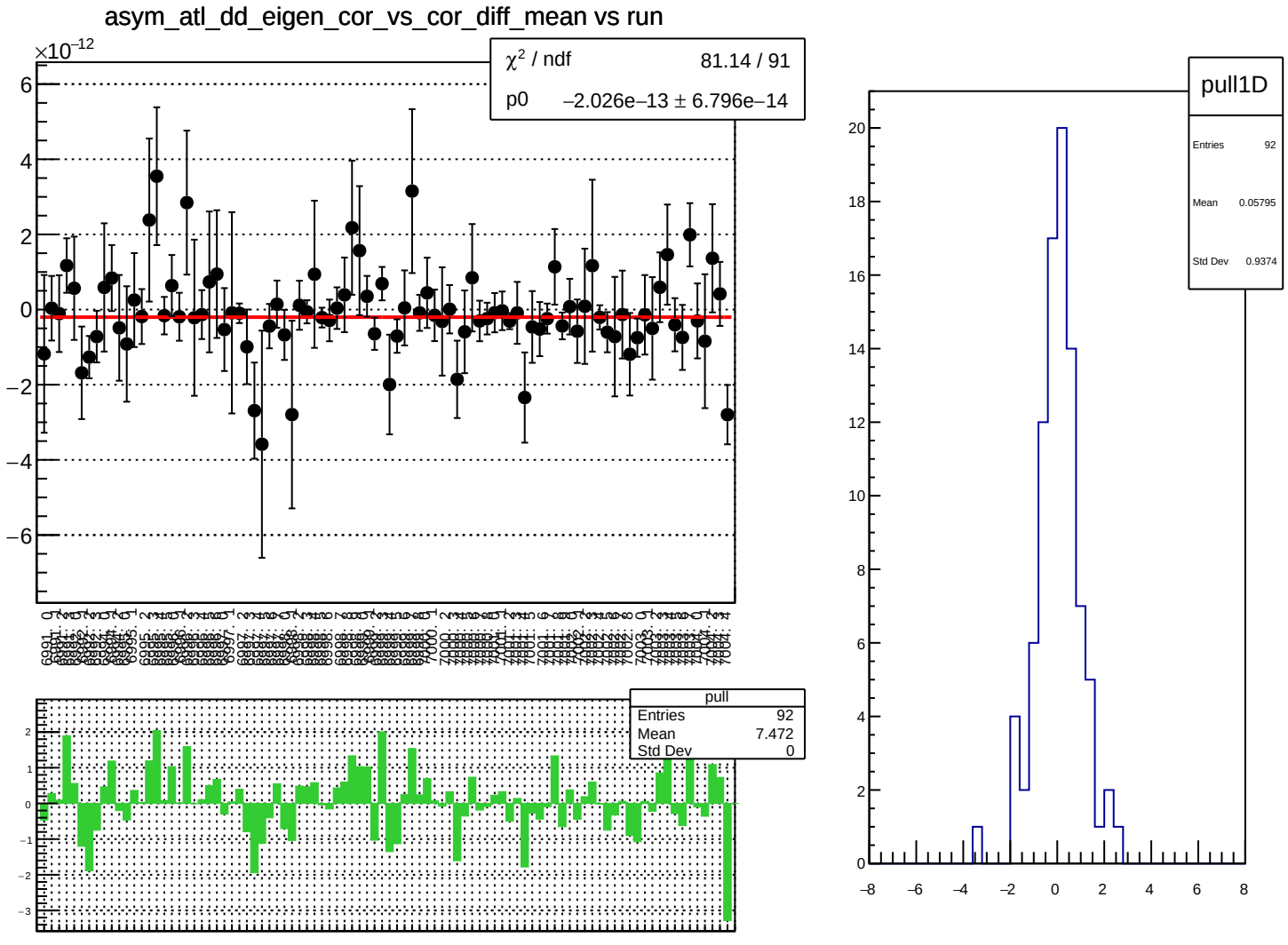

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 91
p0 0.3084 ± 0.3631
pull
Entries 92
Mean 369.4
Std Dev 0

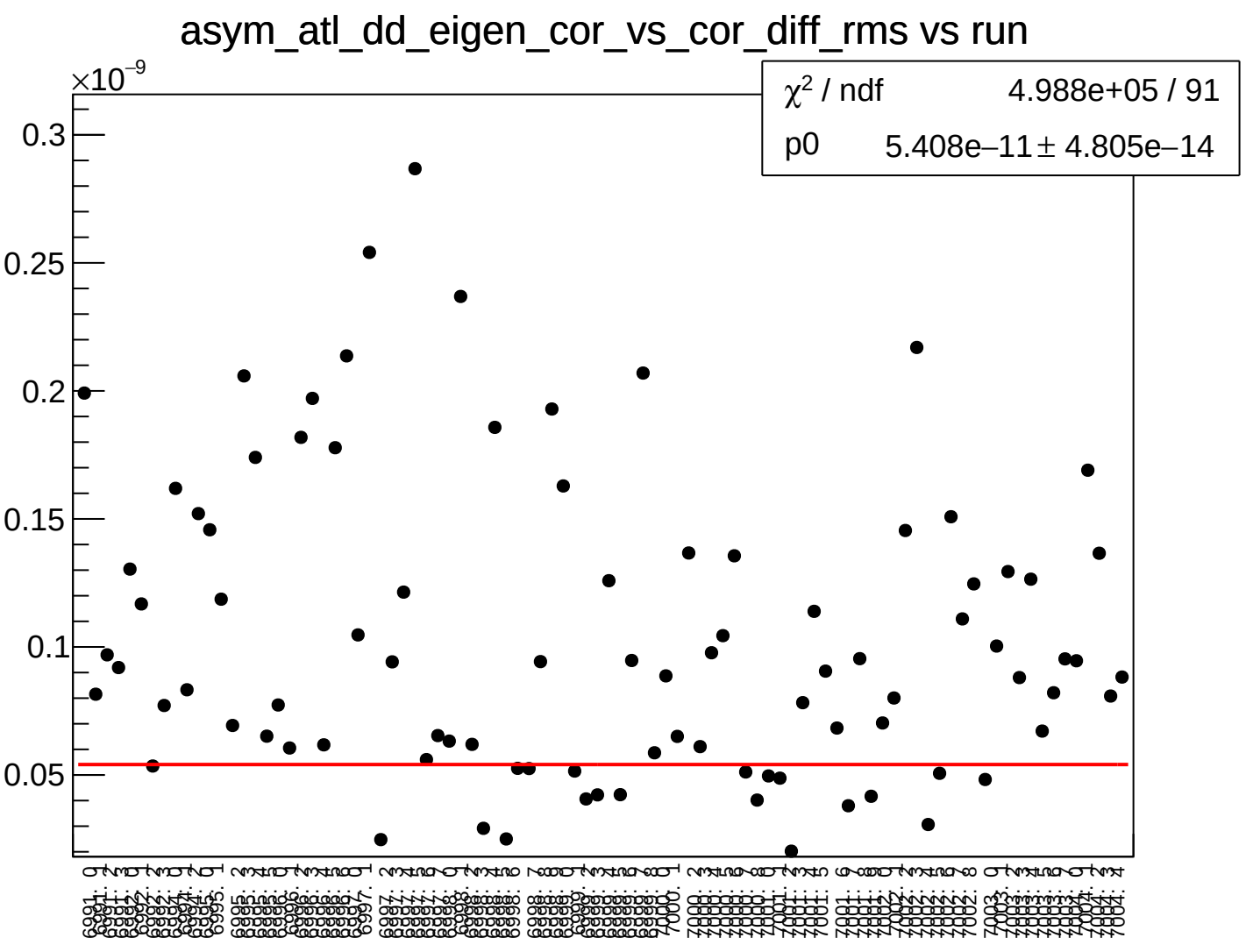

pull1D
Entries 92
Mean 0.01936
Std Dev 1.091

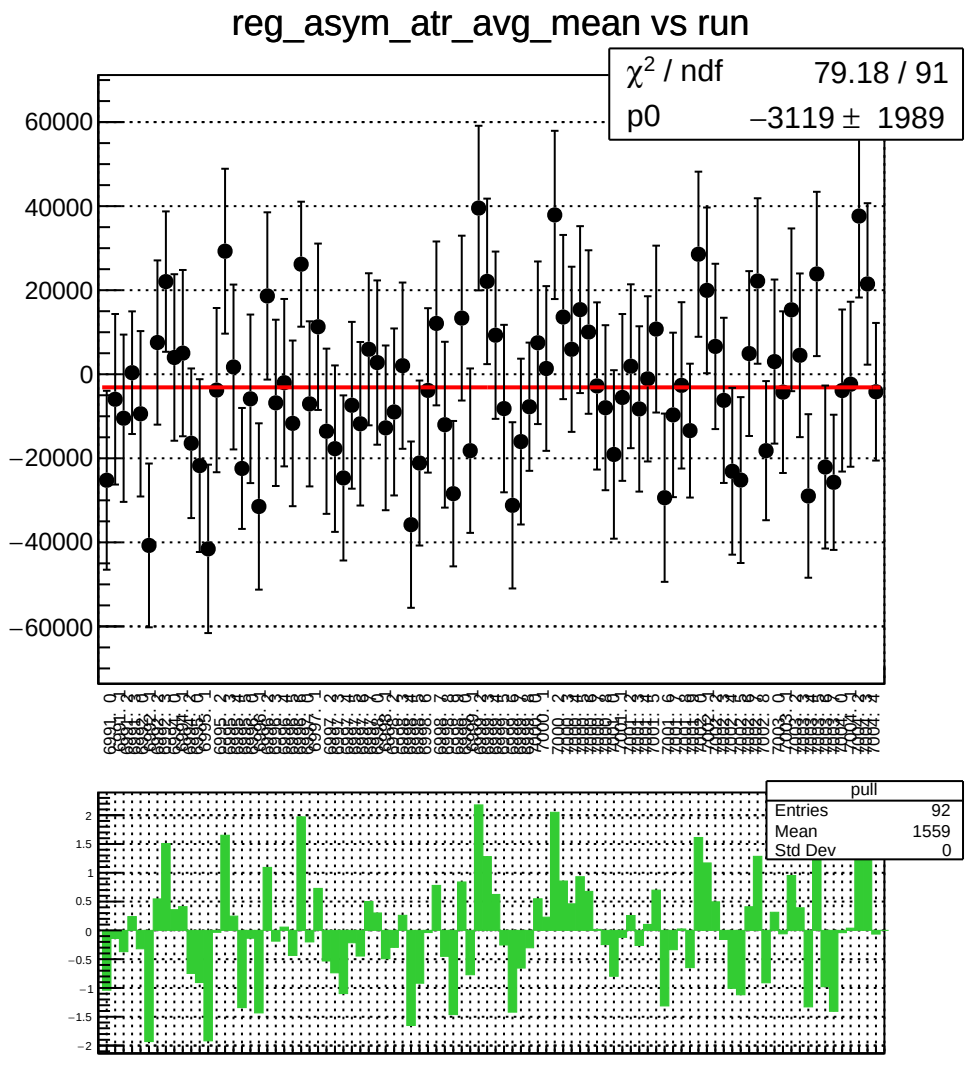

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.569e+04 / 91
p0 339.6 ± 0.2567
450
400
350
300
250

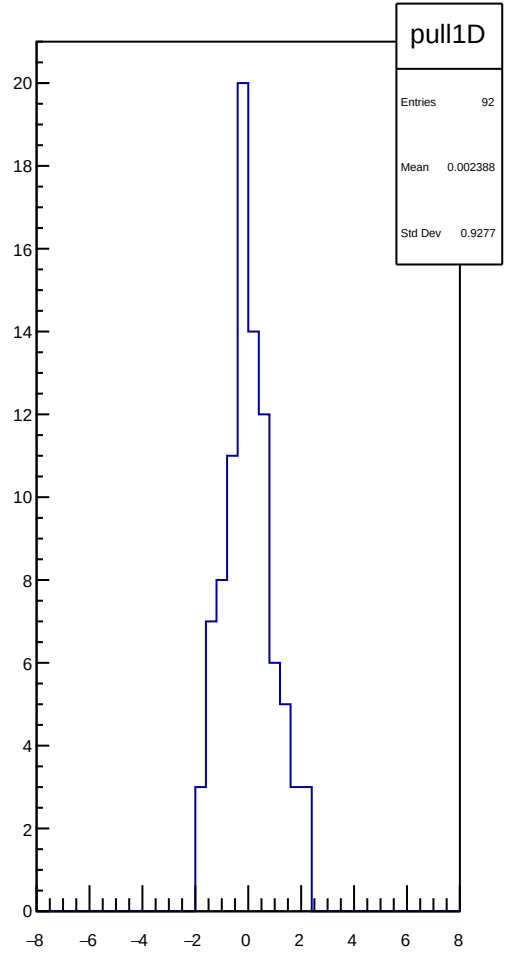

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.4 / 91
p0 0.3084 ± 0.3631
pull
Entries 92
Mean 369.4
Std Dev 0
pull1D
Entries 92
Mean 0.01936
Std Dev 1.091

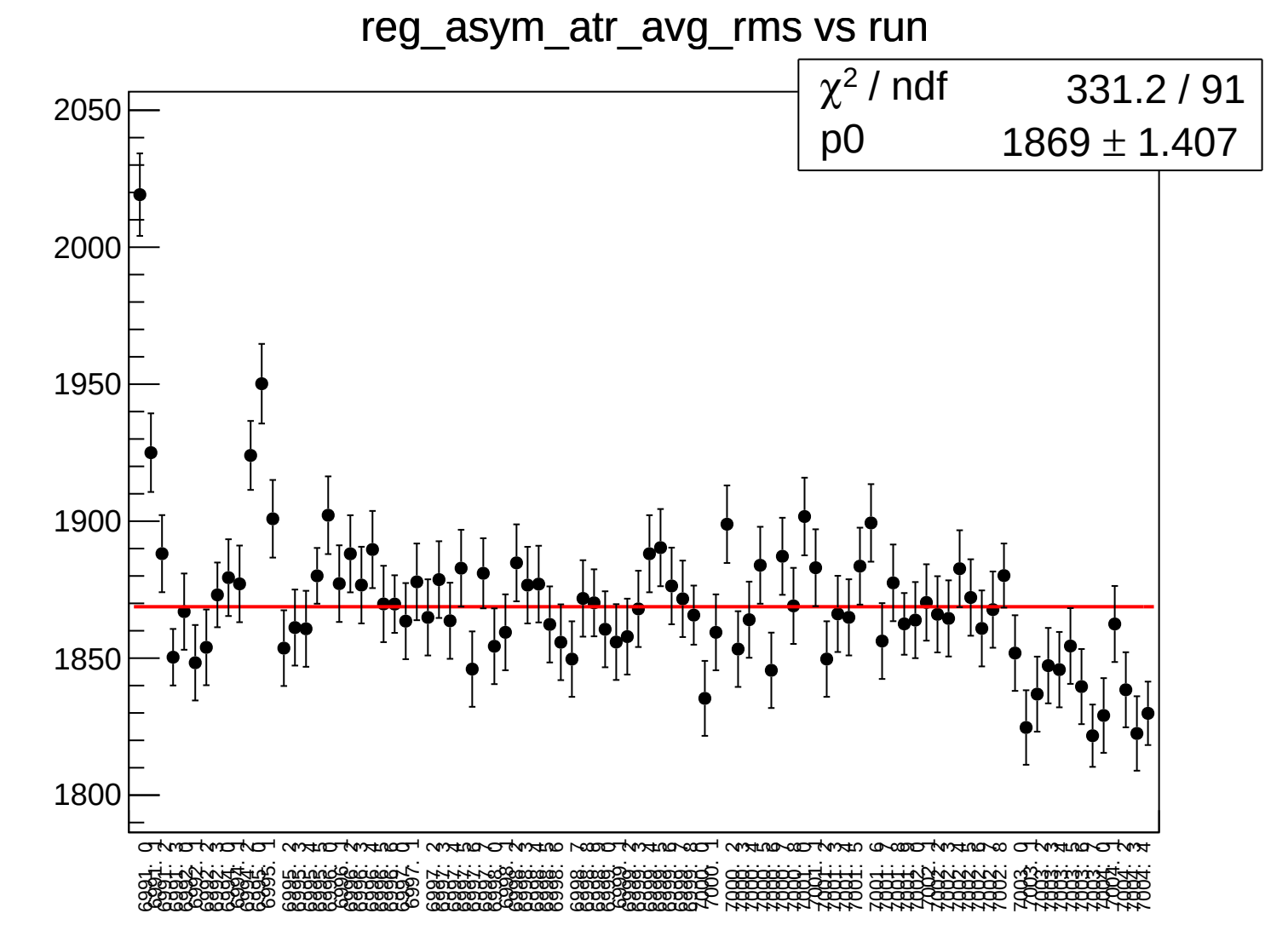

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.569e+04 / 91
p0 339.6 ± 0.2567
450
400
350
300
250

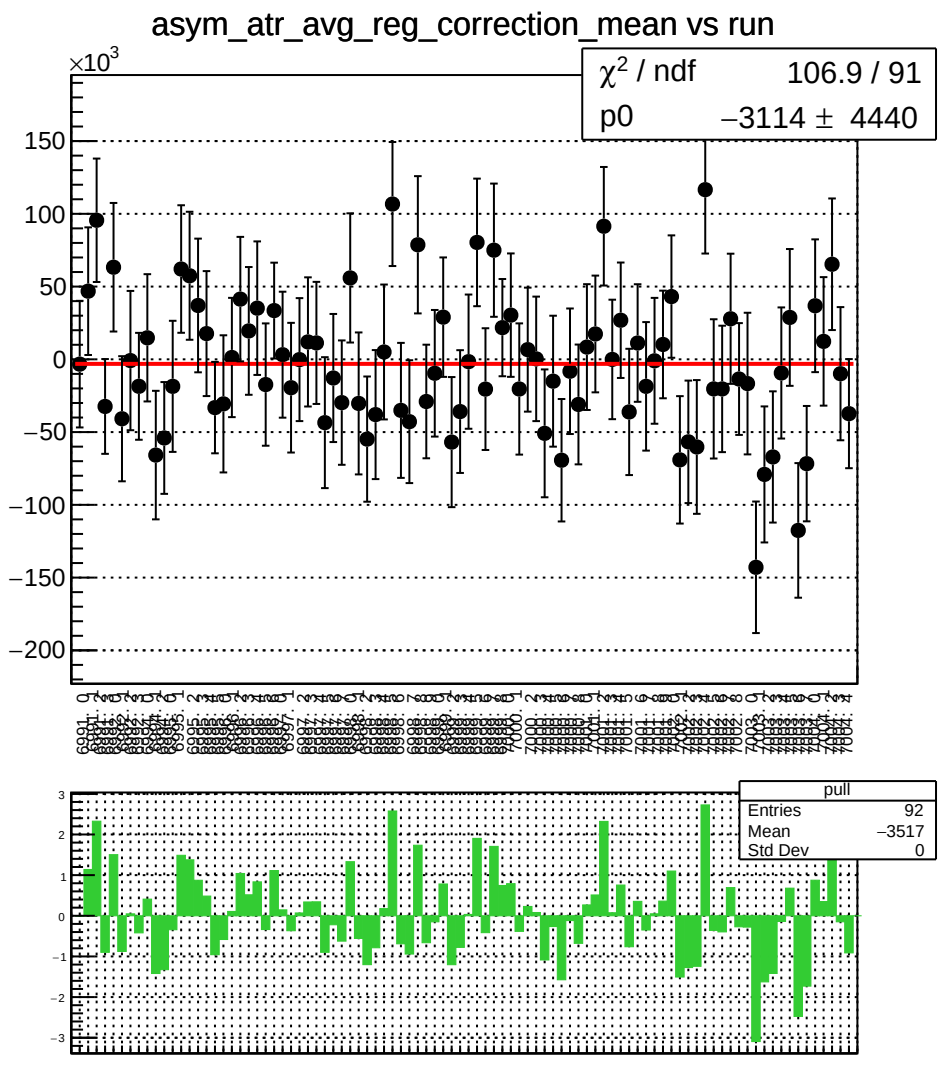

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.14 / 91
p0 −2.026e−13 ± 6.796e−14
pull
Entries 92
Mean 7.472
Std Dev 0
pull1D
Entries 92
Mean 0.05795
Std Dev 0.9374

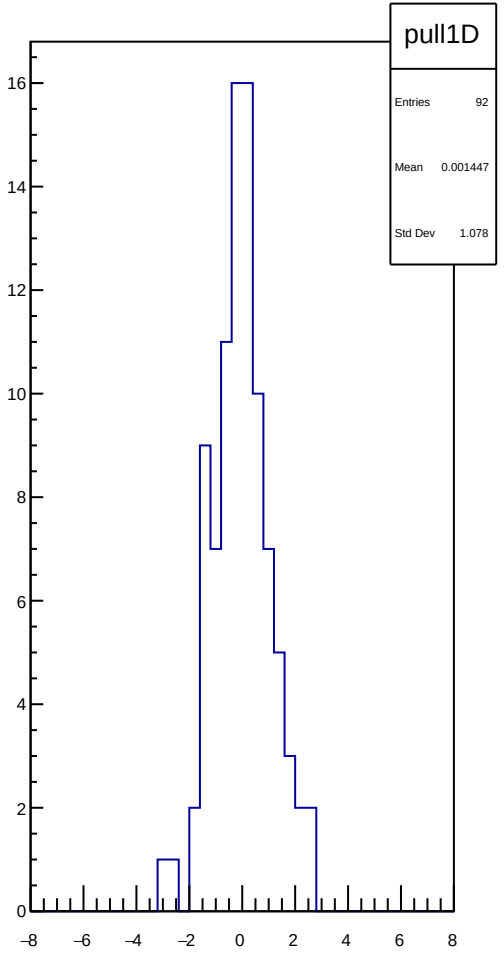

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.988e+05 / 91
p0 5.408e−11 ± 4.805e−14
0.3
0.25
0.2
0.15
0.1
0.05

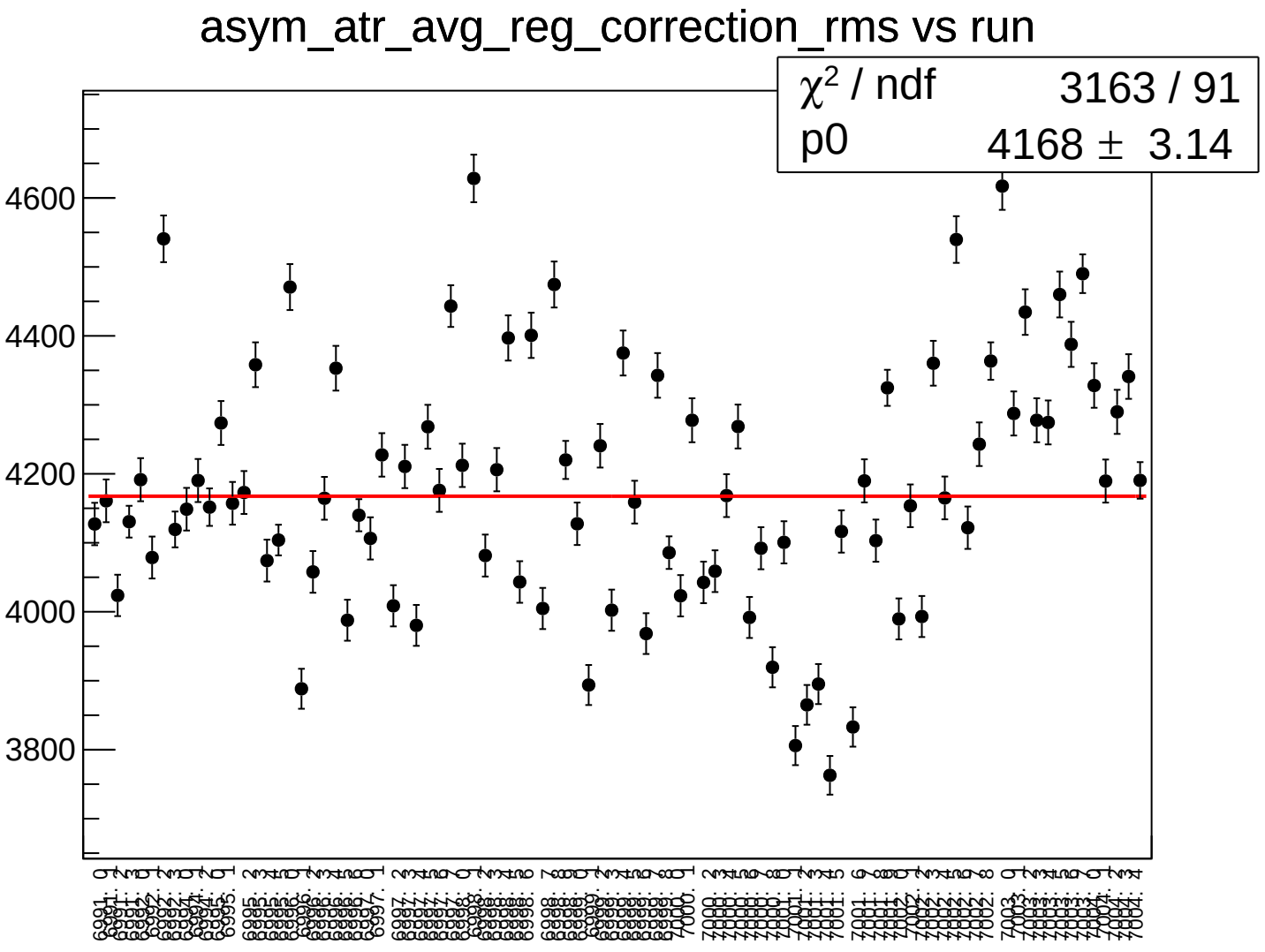

reg_asym_atr_avg_mean vs run
χ² / ndf 79.18 / 91
p0 −3119 ± 1989
pull
Entries 92
Mean 1559
Std Dev 0

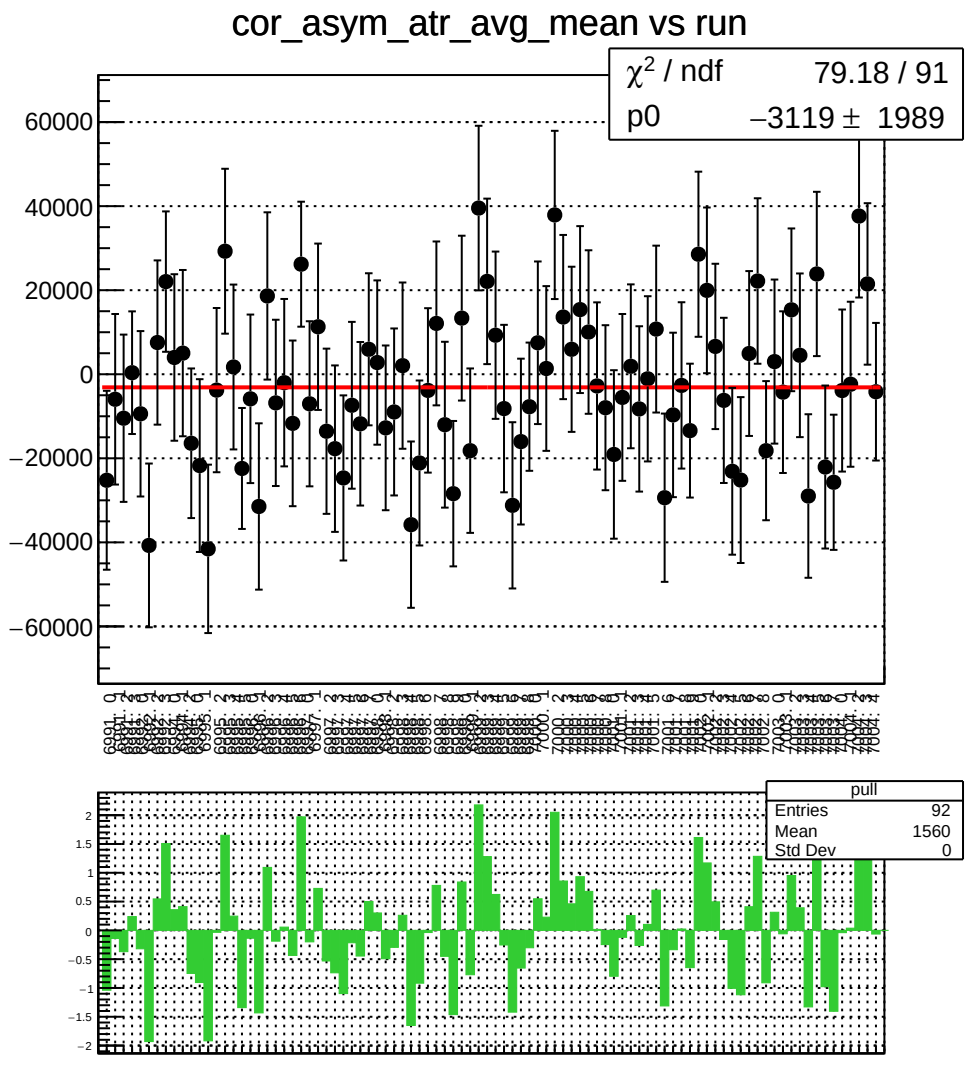

pull1D
Entries 92
Mean 0.002388
Std Dev 0.9277

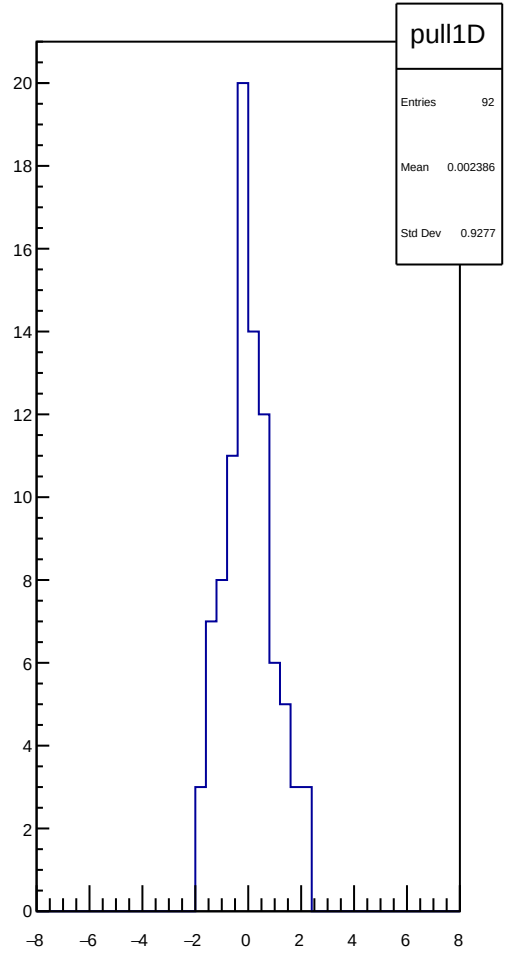

reg_asym_atr_avg_rms vs run
χ^2 / ndf 331.2 / 91
p0 1869 ± 1.407
2050
2000
1950
1900
1850
1800

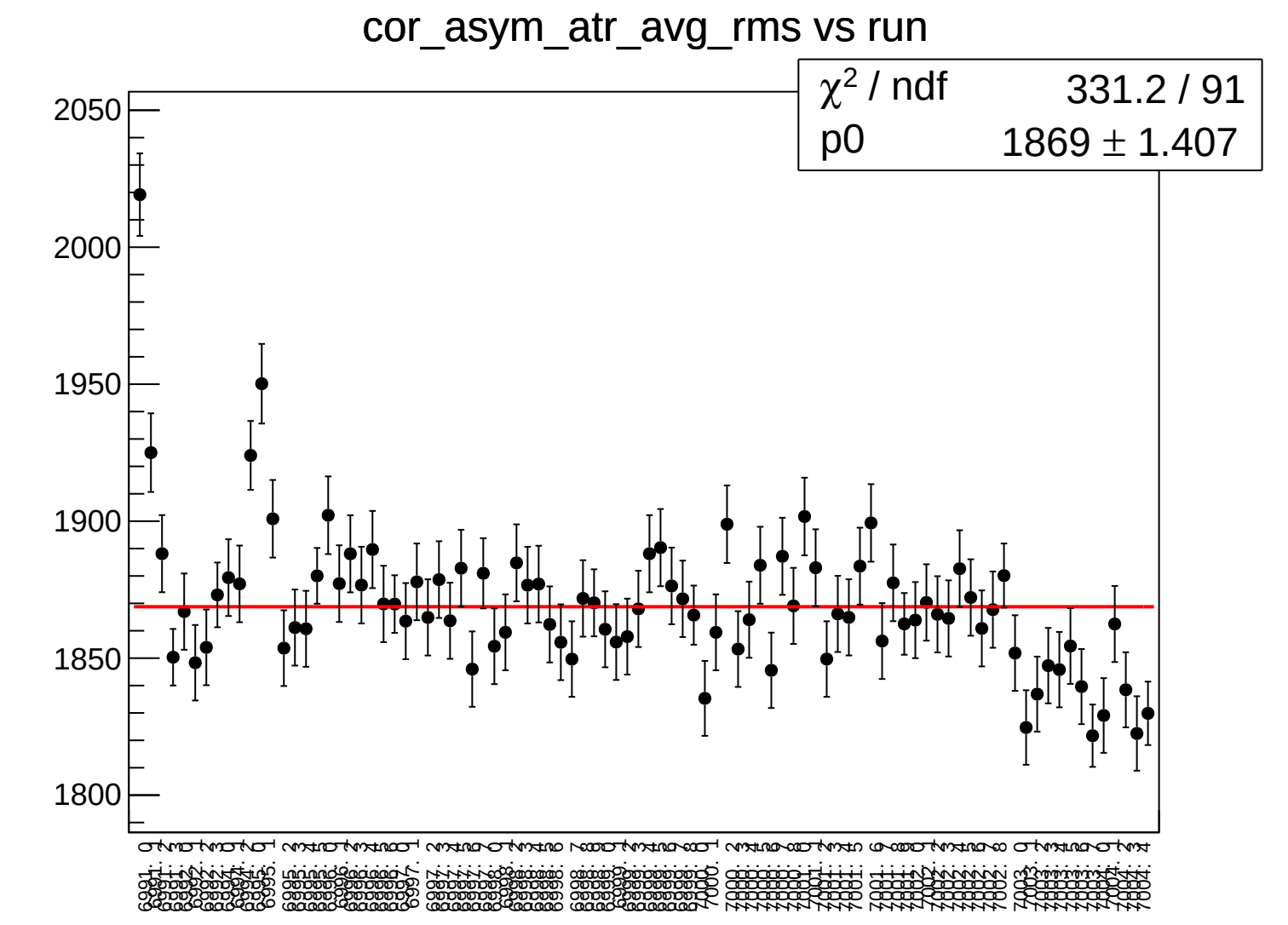

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 106.9 / 91
p0 −3114 ± 4440
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −3517
Std Dev 0
3
2
1
0
−1
−2
−3

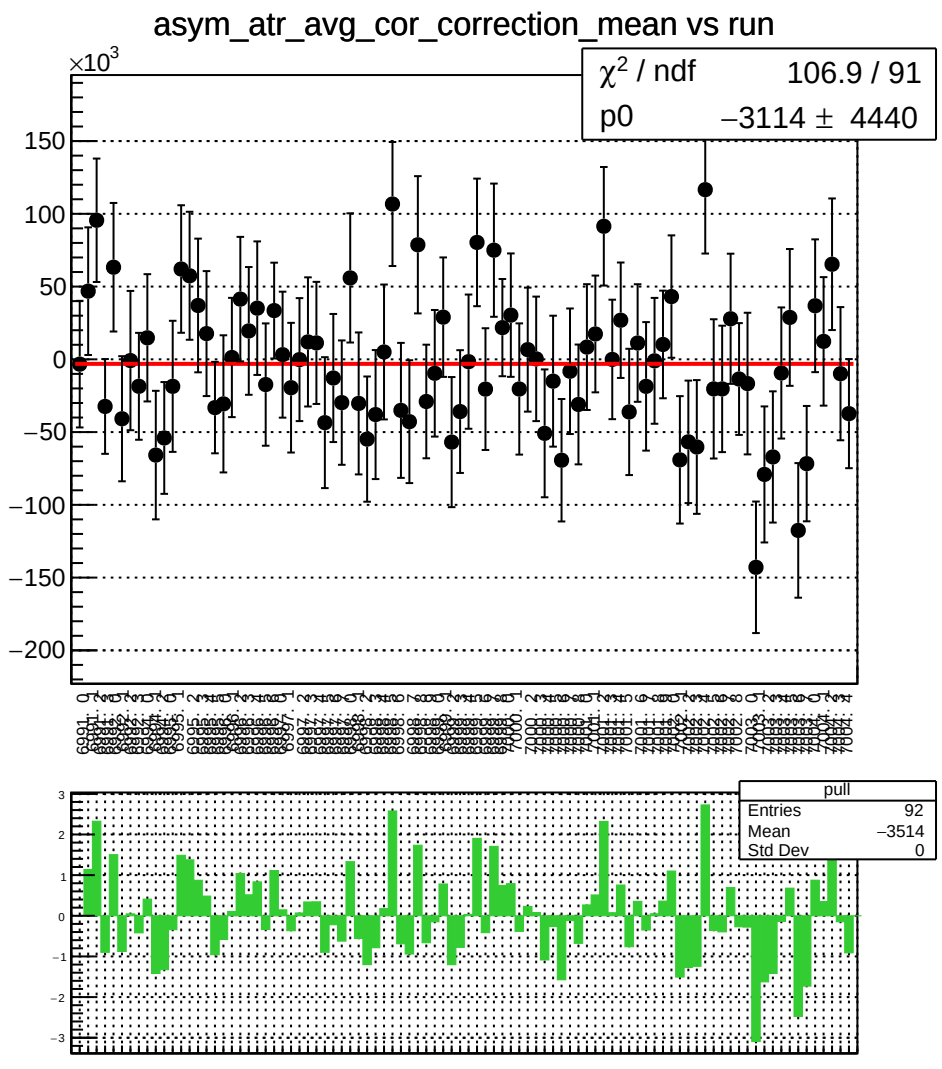

pull1D
Entries 92
Mean 0.001447
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

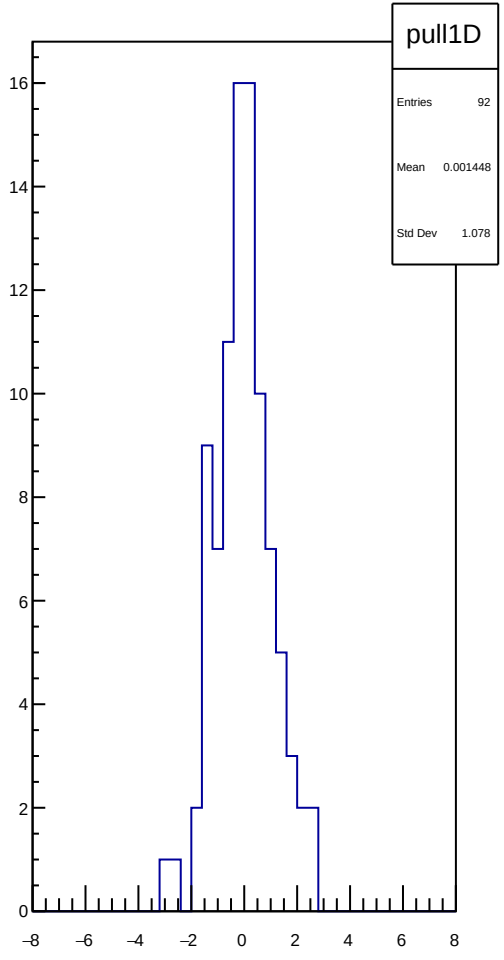

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 3163 / 91
p0 4168 ± 3.14
4600
4400
4200
4000
3800

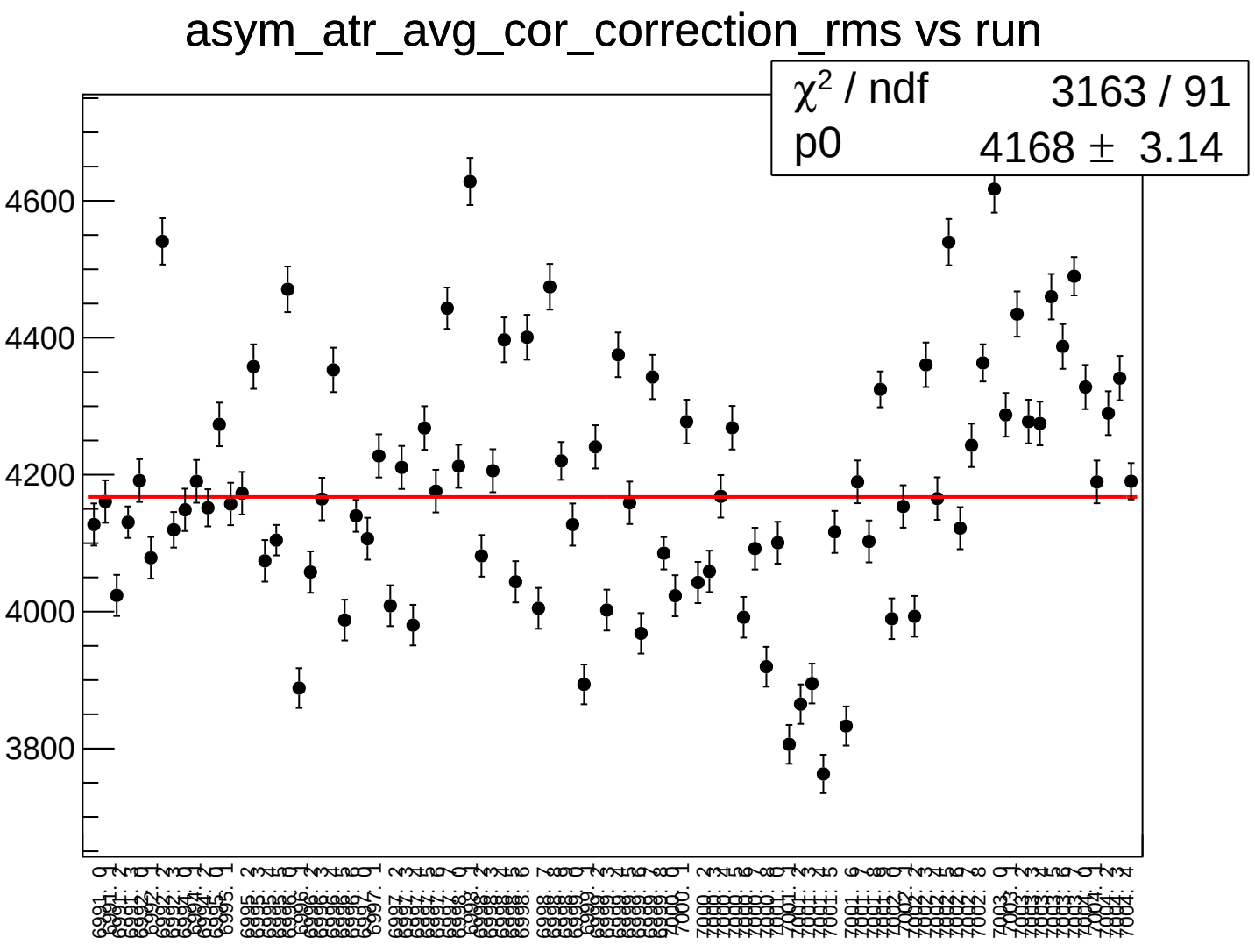

cor_asym_atr_avg_mean vs run
χ² / ndf 79.18 / 91
p0 −3119 ± 1989
pull
Entries 92
Mean 1560
Std Dev 0

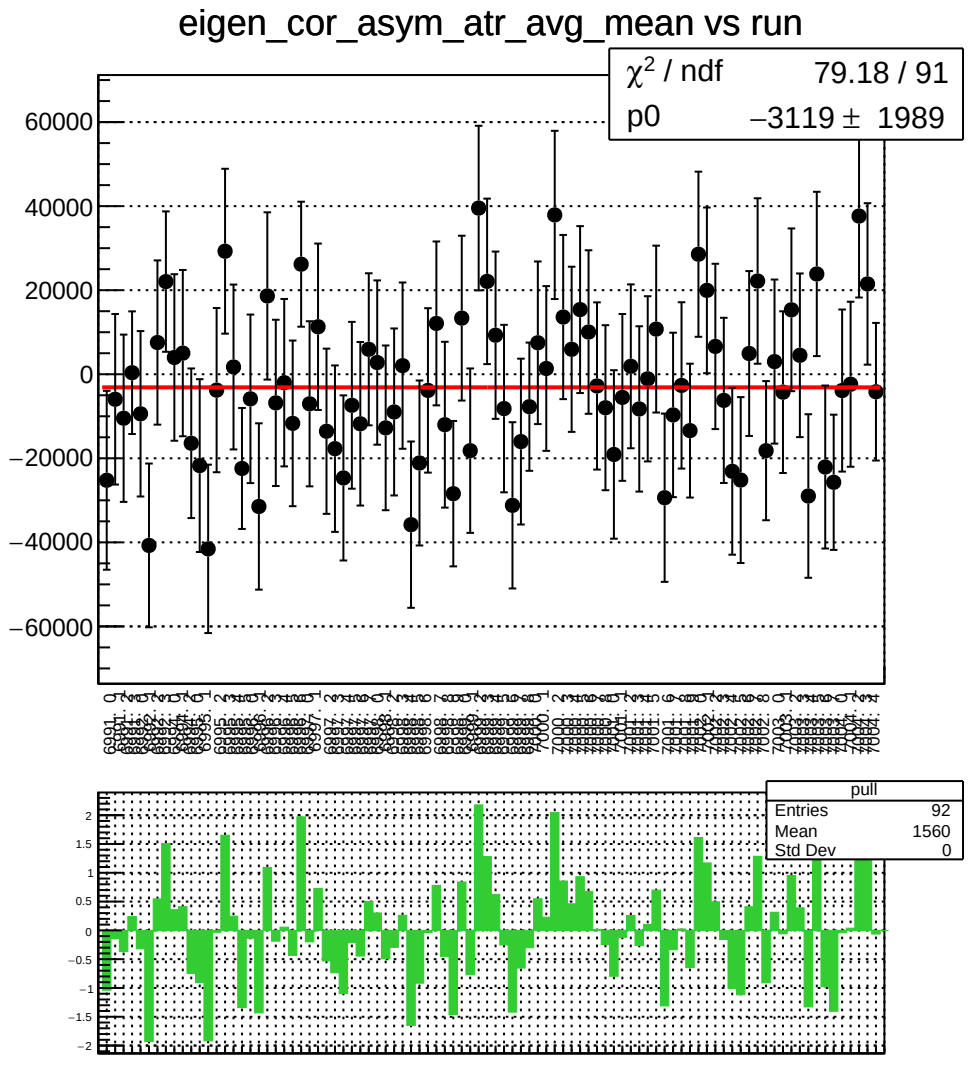

pull1D
Entries 92
Mean 0.002386
Std Dev 0.9277

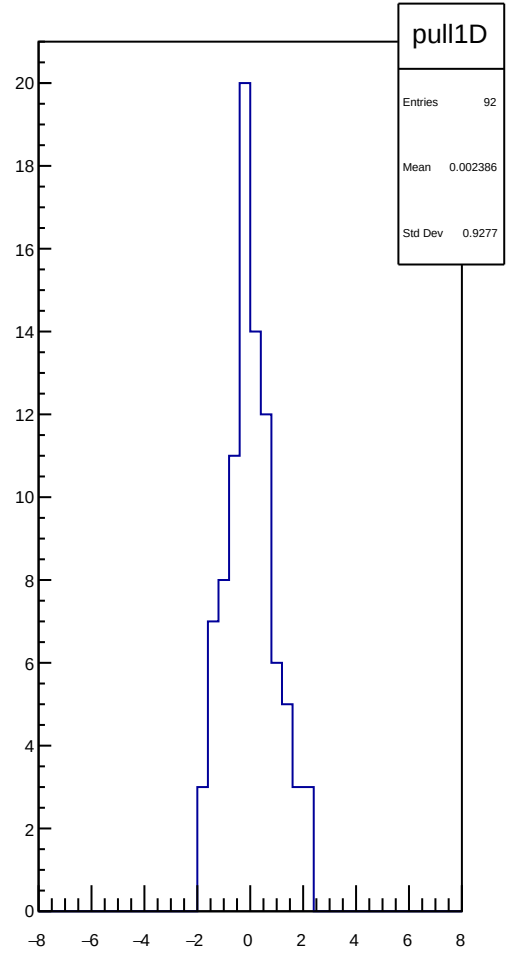

cor_asym_atr_avg_rms vs run
χ² / ndf 331.2 / 91
p0 1869 ± 1.407
2050
2000
1950
1900
1850
1800

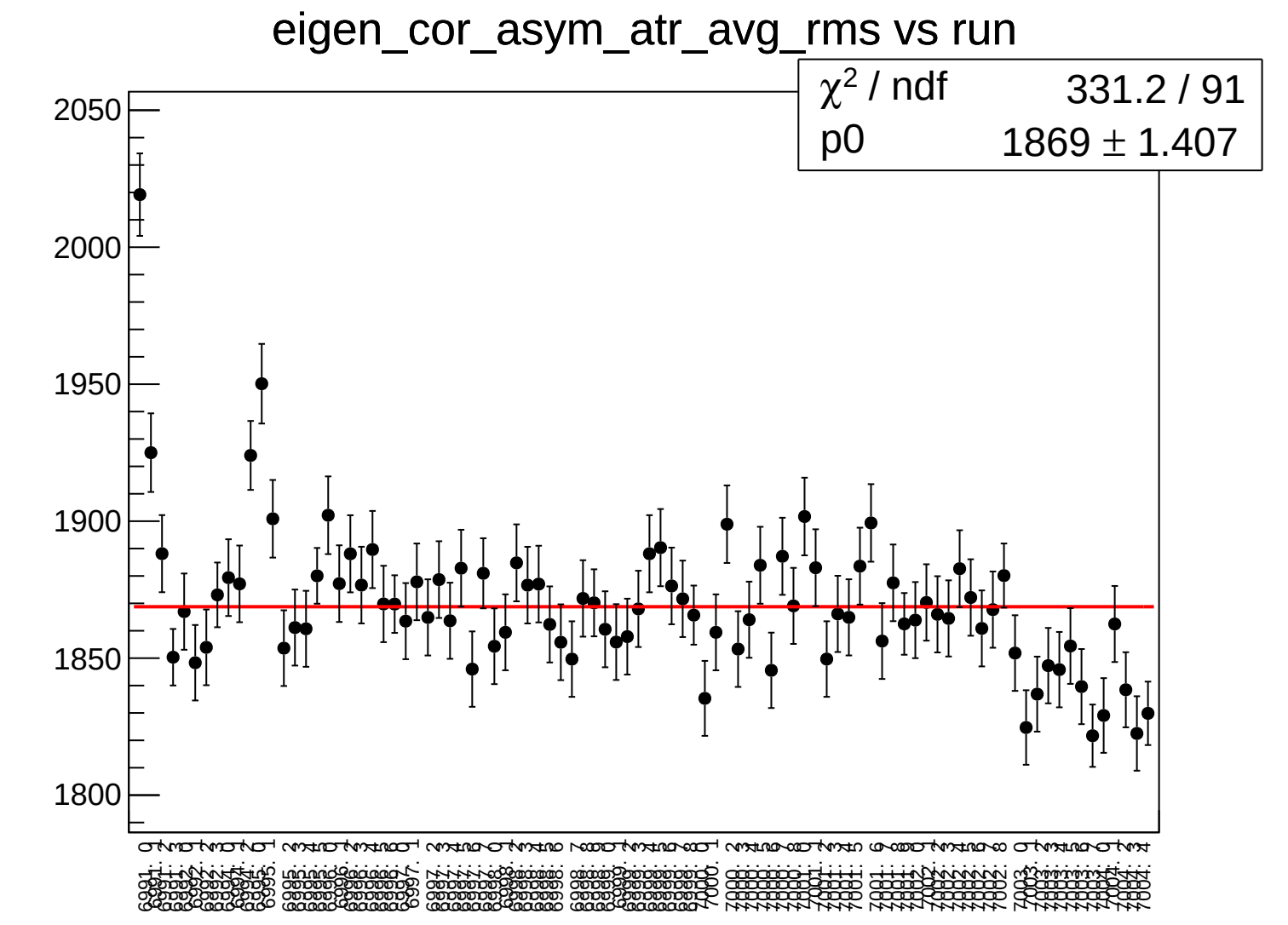

asym_atr_avg_cor_correction_mean vs run
χ^2 / ndf 106.9 / 91
p0 −3114 ± 4440
×10^3
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −3514
Std Dev 0
3
2
1
0
−1
−2
−3

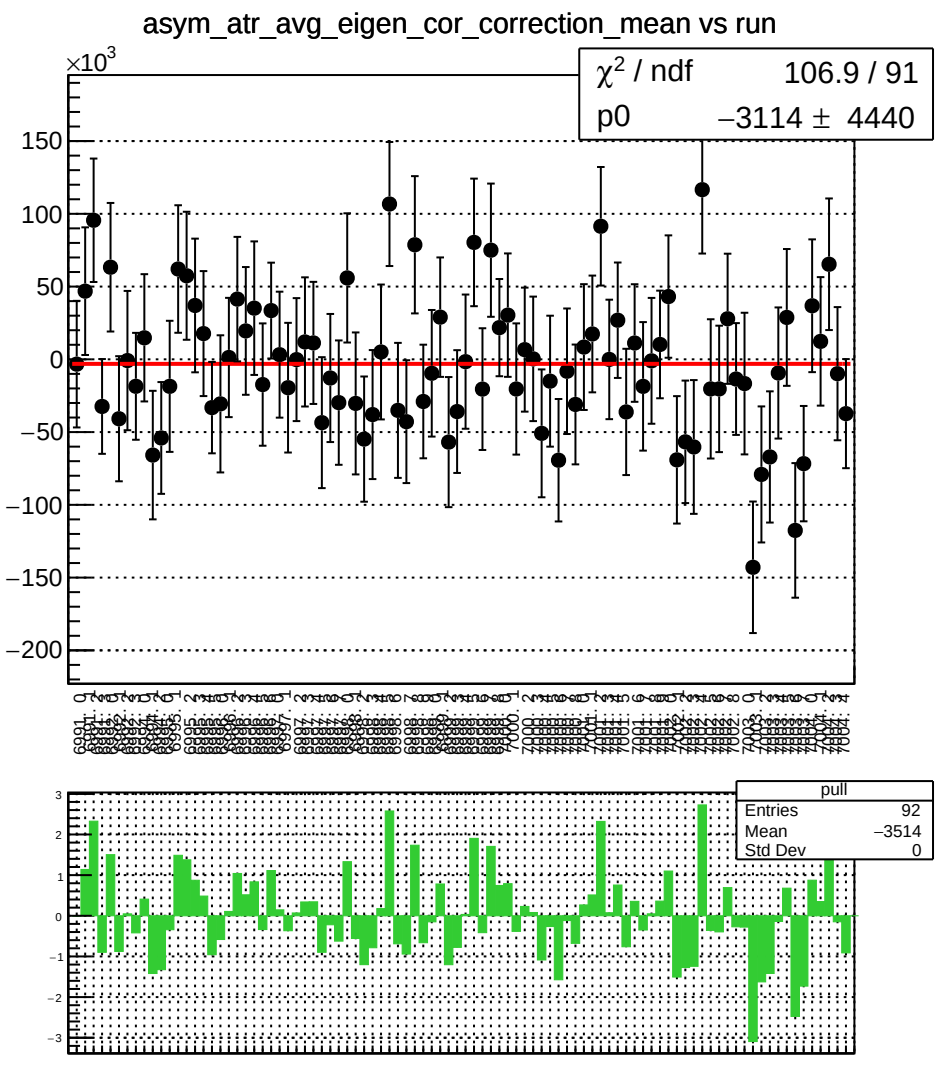

pull1D
Entries 92
Mean 0.001448
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

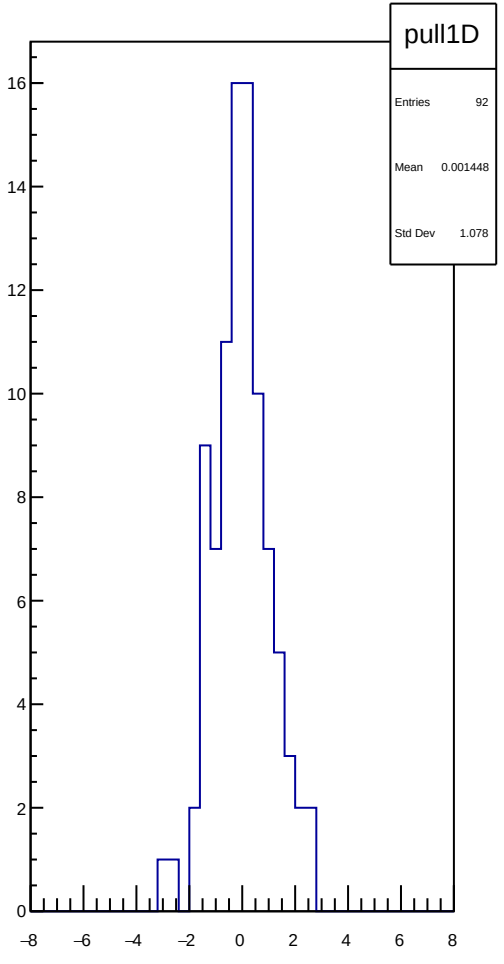

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 3163 / 91
p0 4168 ± 3.14
4600
4400
4200
4000
3800

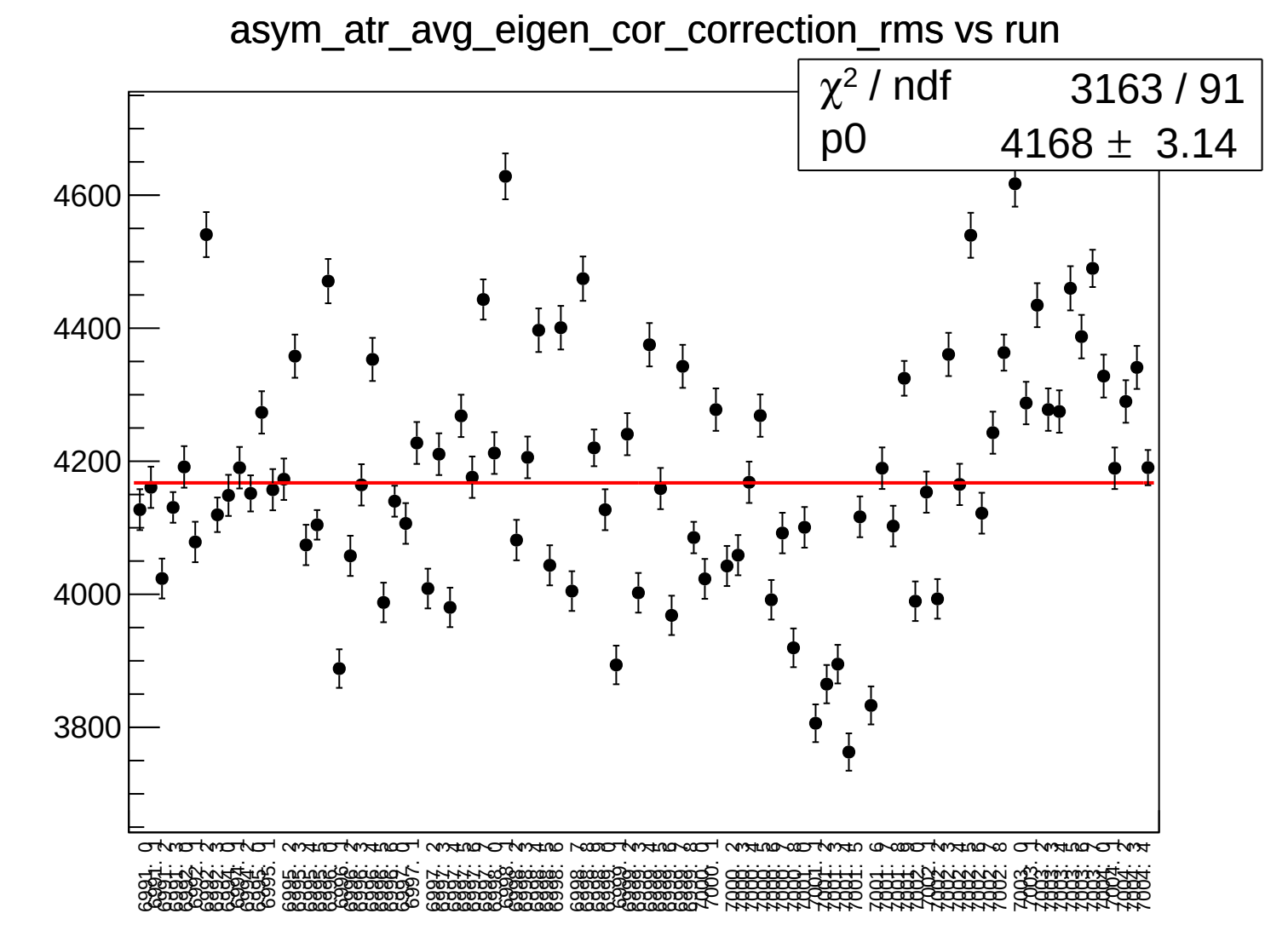

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 79.18 / 91
p0 −3119 ± 1989
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1560
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

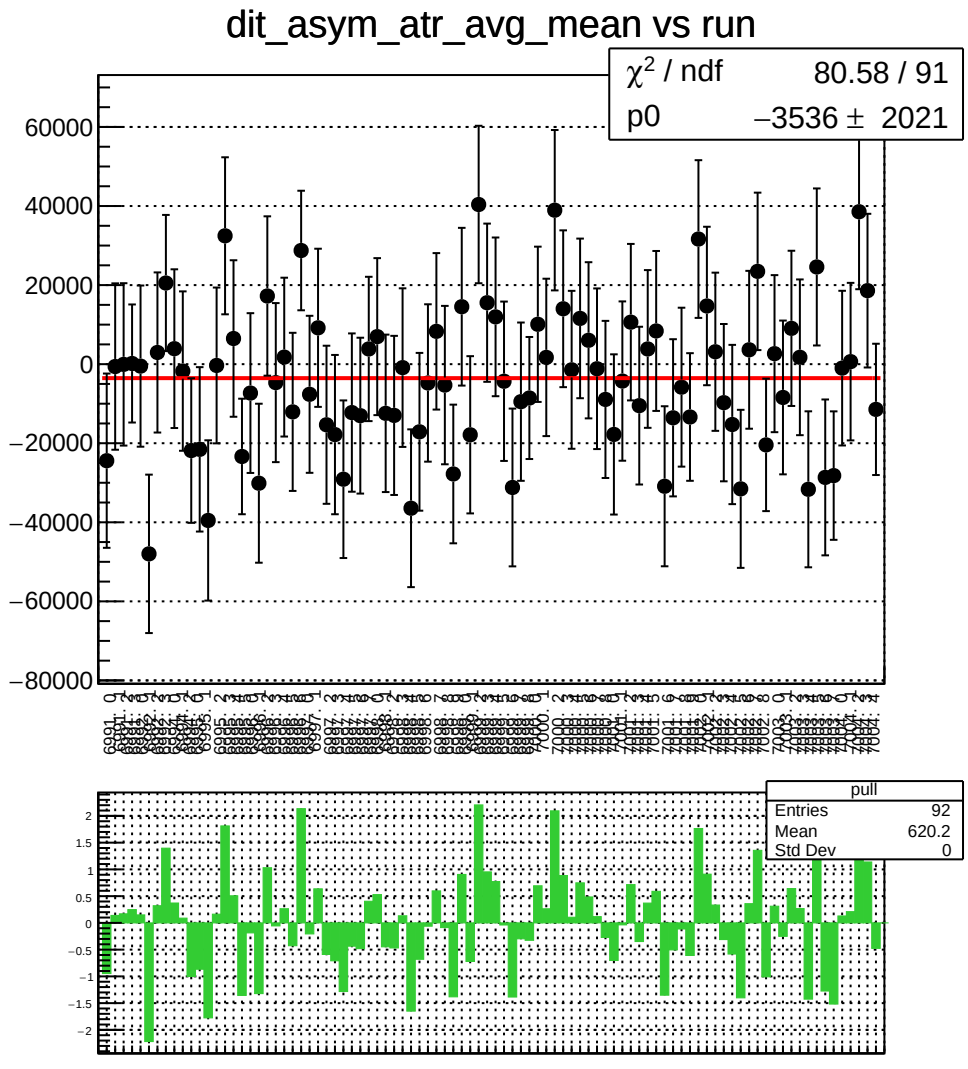

pull1D
Entries 92
Mean 0.002386
Std Dev 0.9277
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

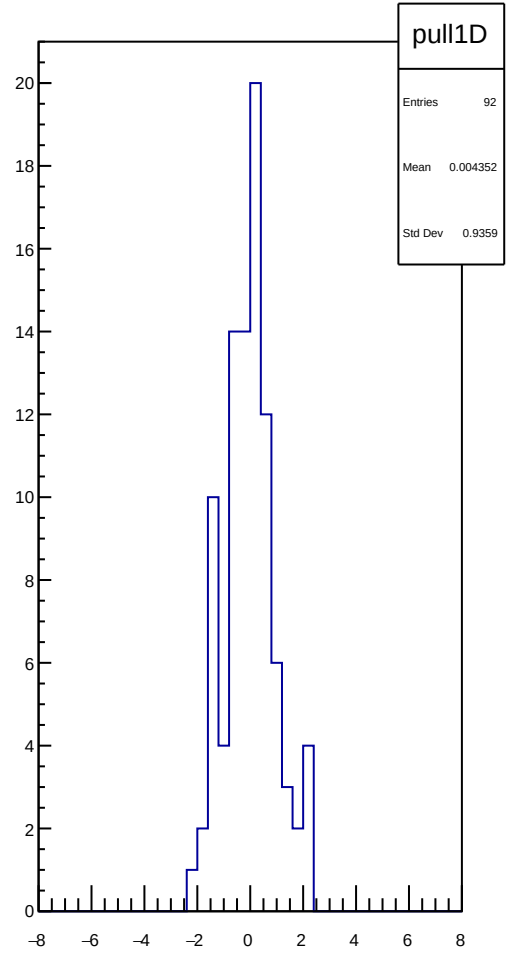

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 331.2 / 91
p0 1869 ± 1.407
2050
2000
1950
1900
1850
1800

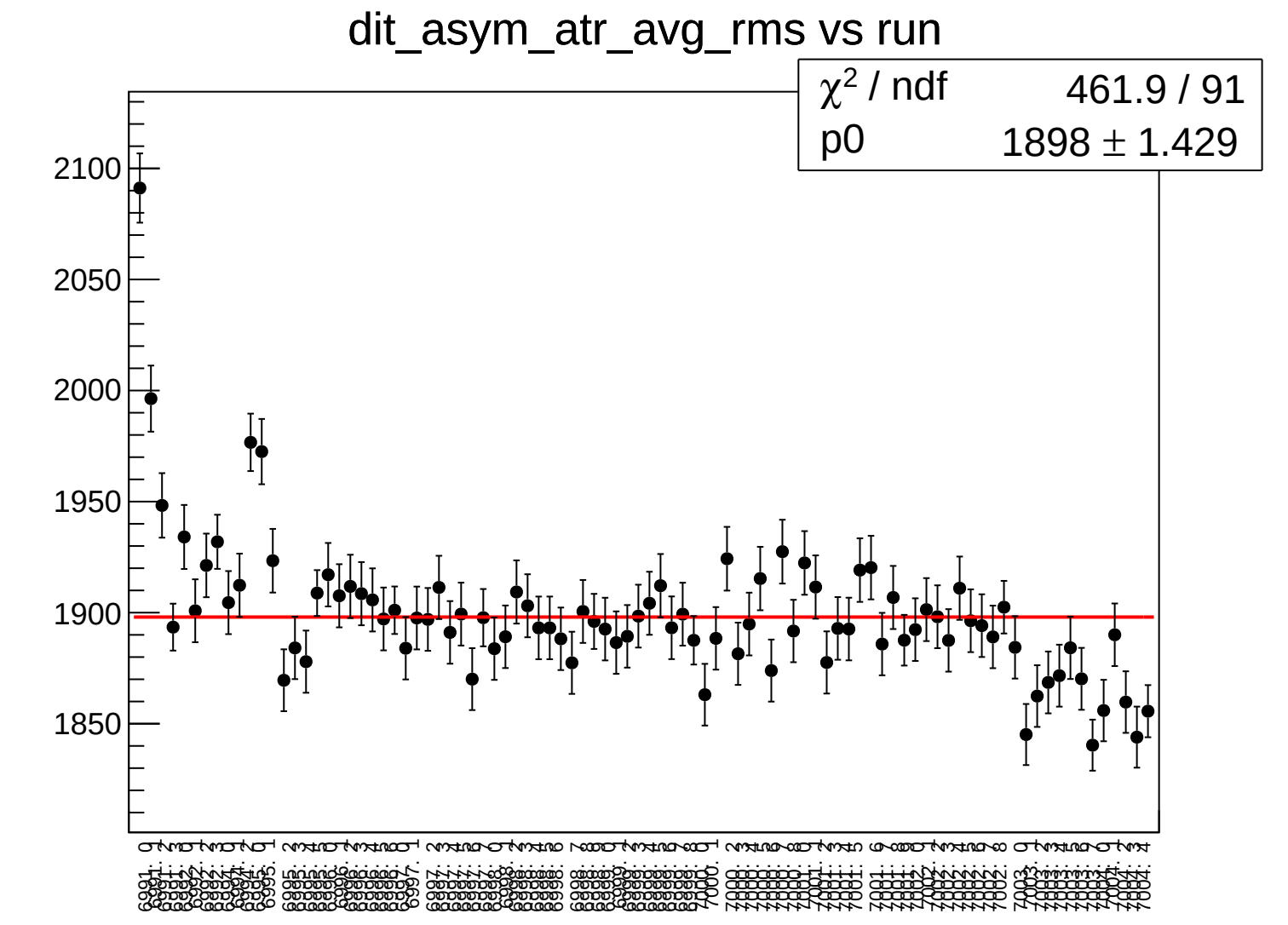

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.9 / 91
p0 −3114 ± 4440
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −3514
Std Dev 0
3
2
1
0
−1
−2
−3

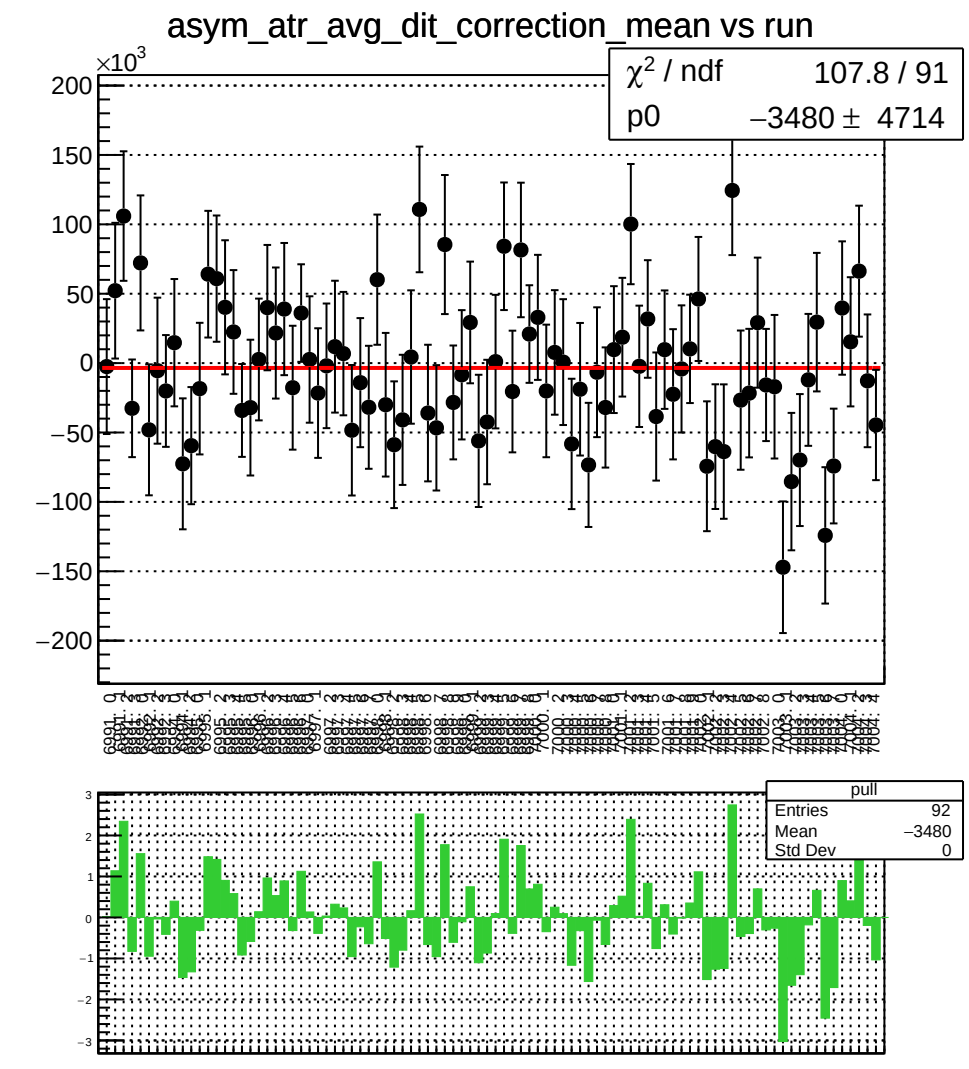

pull1D
Entries 92
Mean 0.001448
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

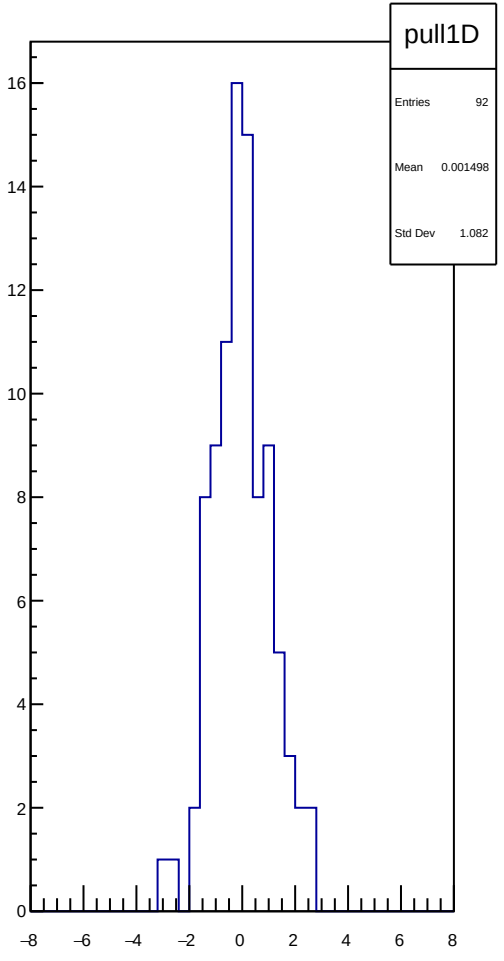

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 3163 / 91
p0 4168 ± 3.14
4600
4400
4200
4000
3800

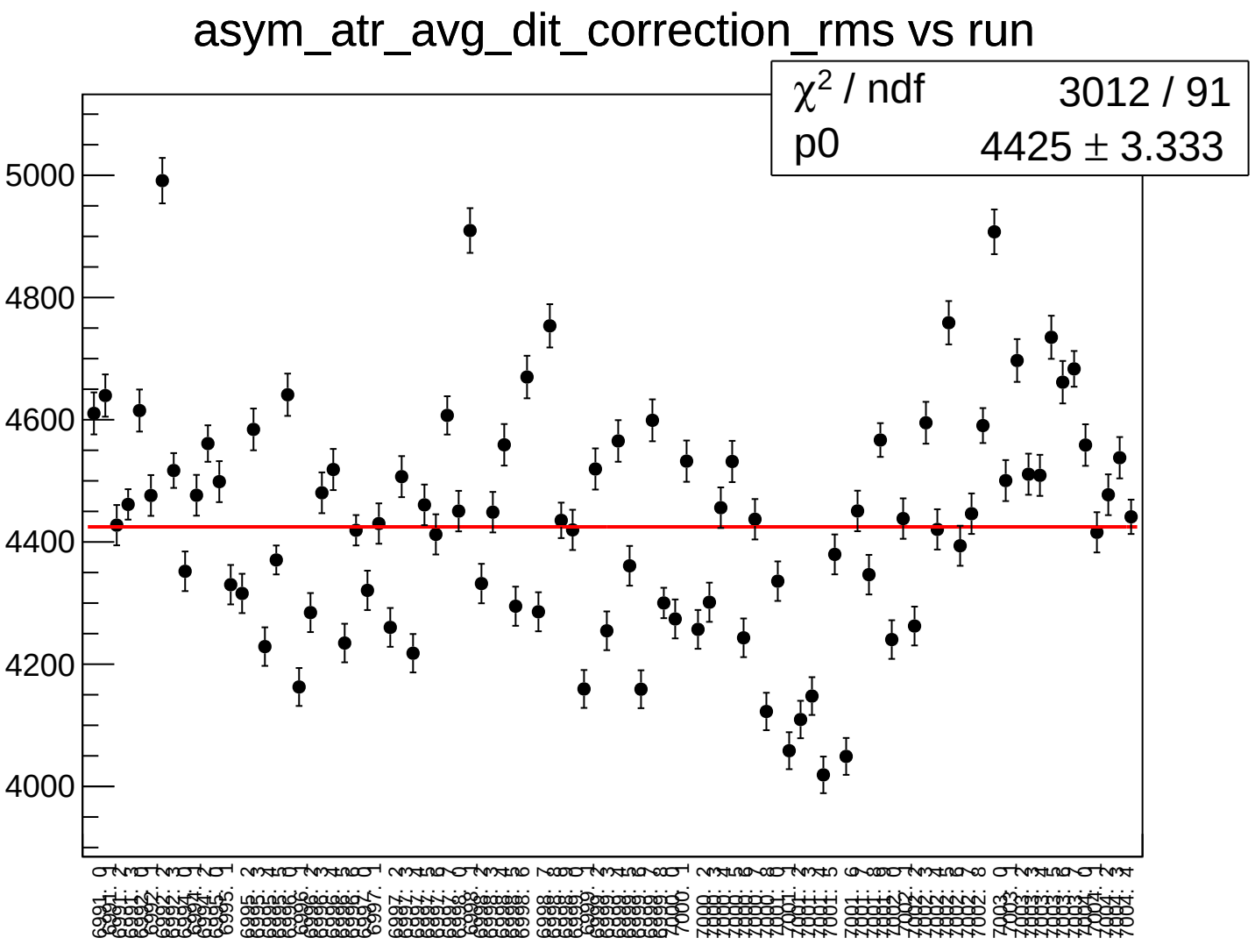

dit_asym_atr_avg_mean vs run
χ² / ndf 80.58 / 91
p0 −3536 ± 2021
pull
Entries 92
Mean 620.2
Std Dev 0

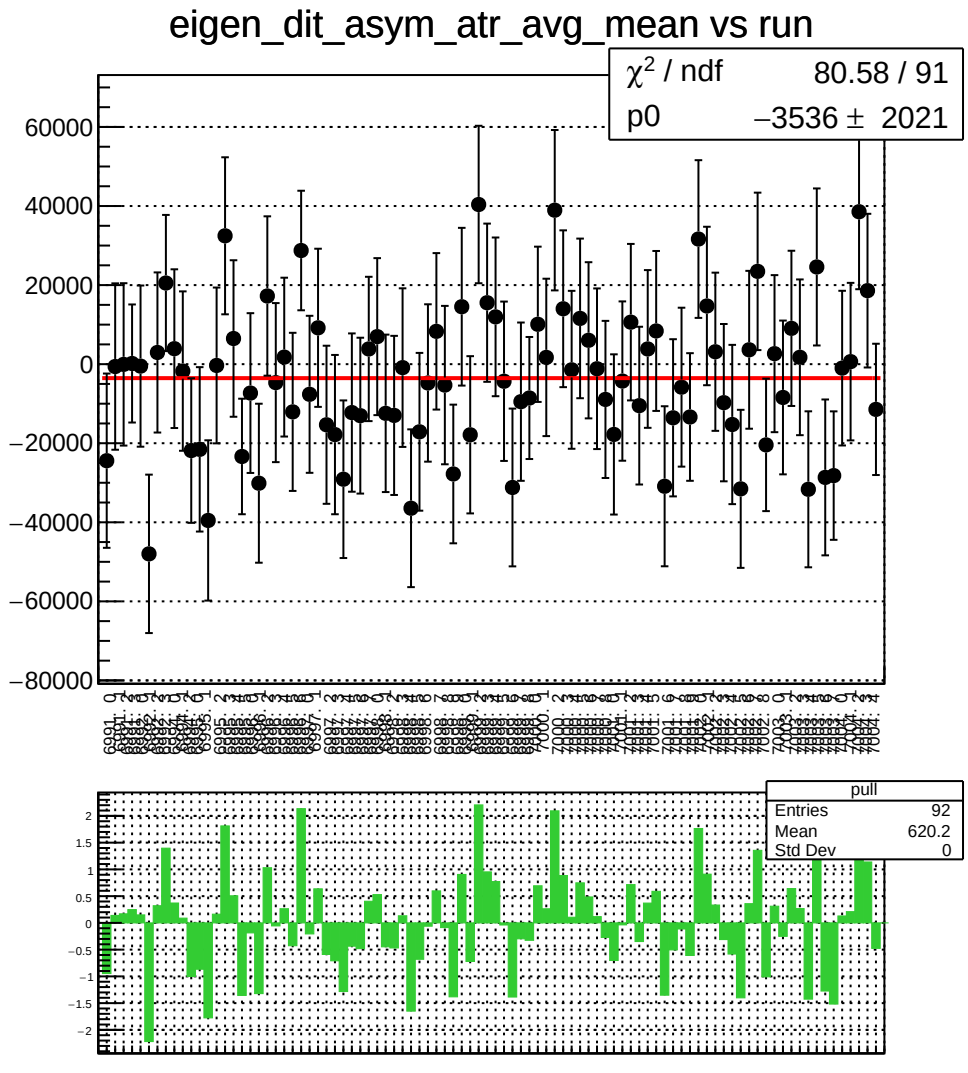

pull1D
Entries 92
Mean 0.004352
Std Dev 0.9359

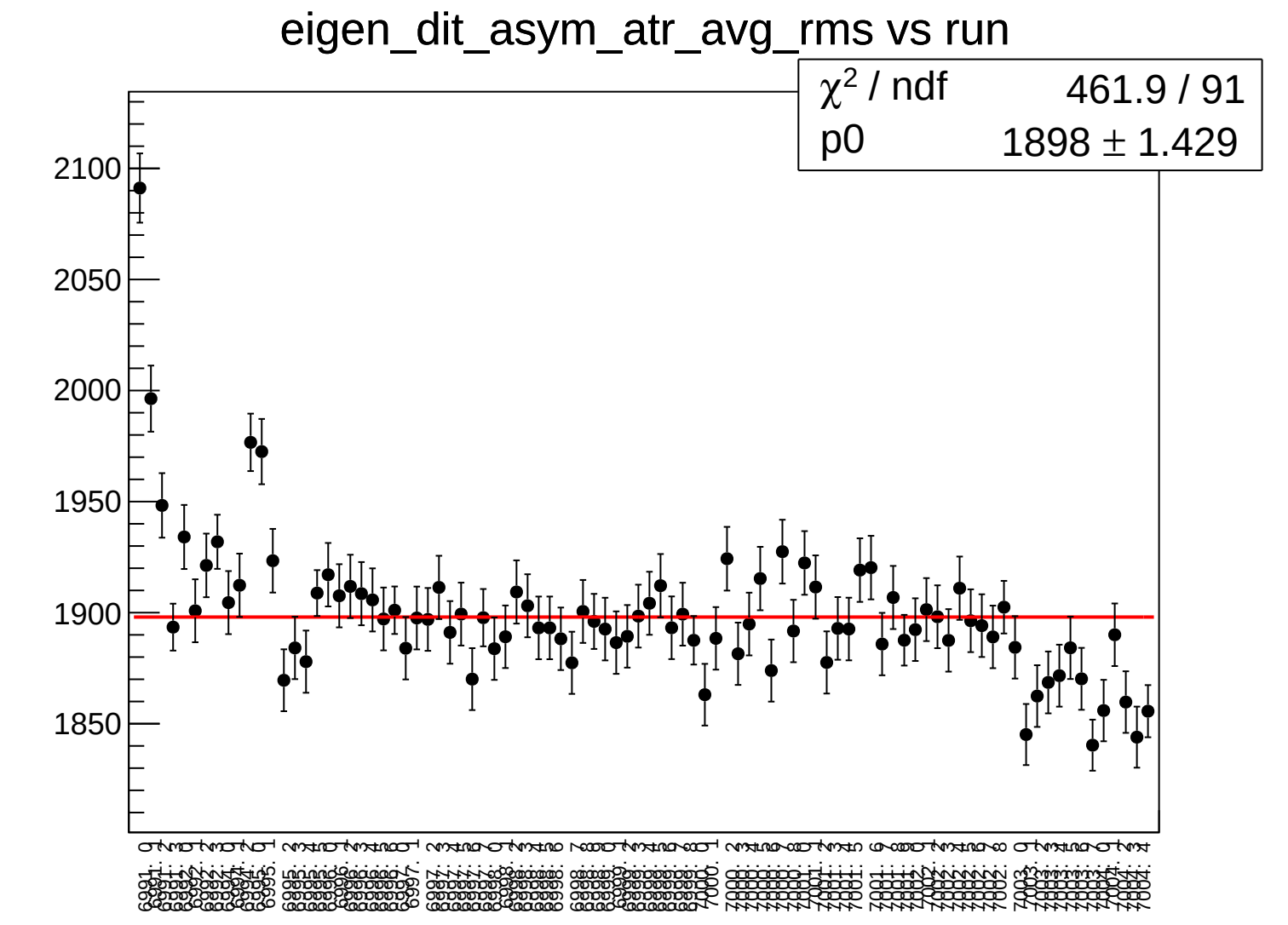

dit_asym_atr_avg_rms vs run
χ² / ndf 461.9 / 91
p0 1898 ± 1.429
2100
2050
2000
1950
1900
1850

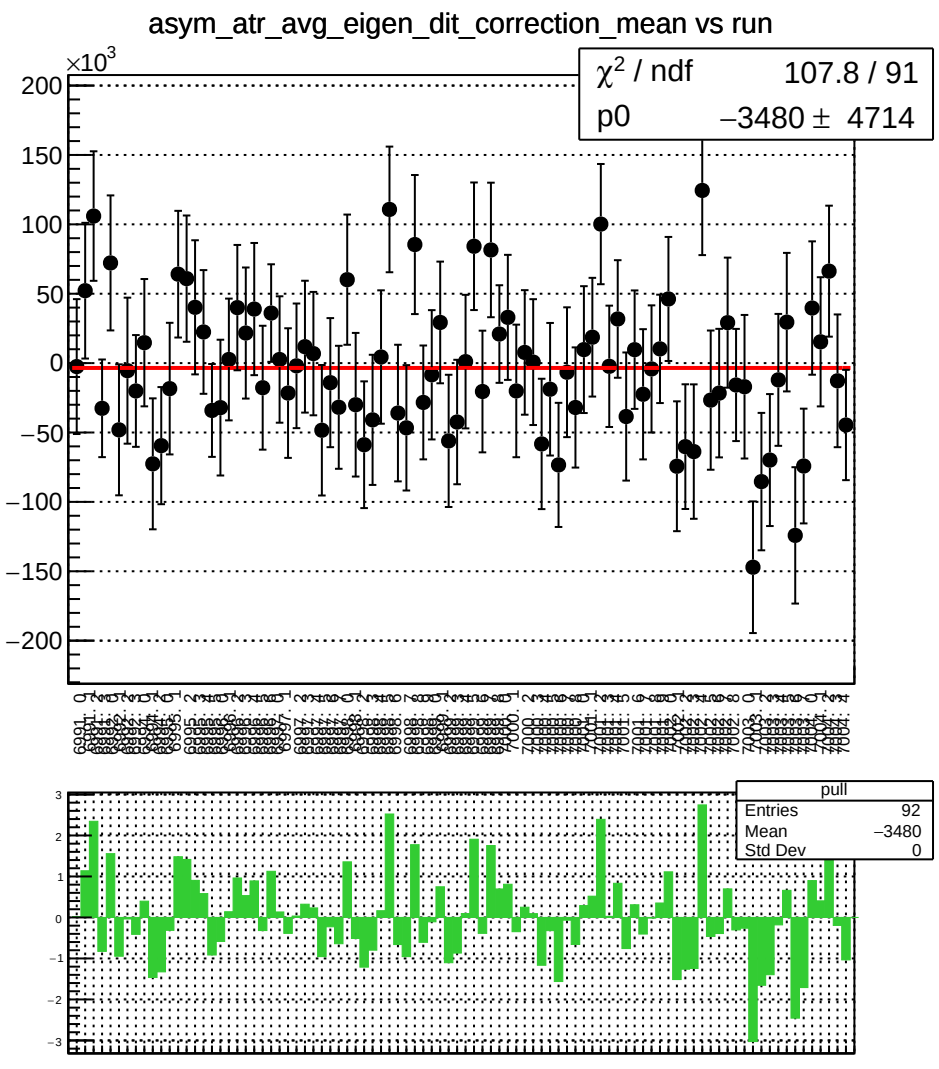

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.8 / 91
p0 −3480 ± 4714
pull
Entries 92
Mean −3480
Std Dev 0

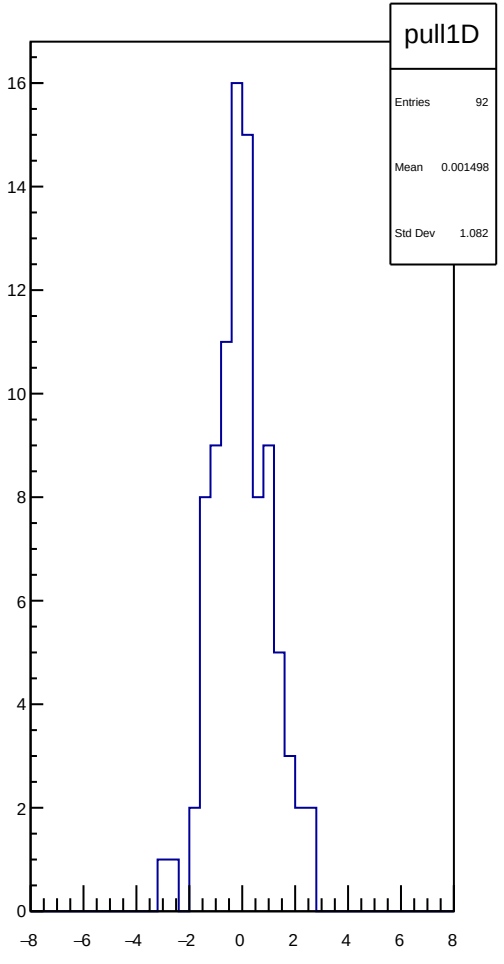

pull1D
Entries 92
Mean 0.001498
Std Dev 1.082

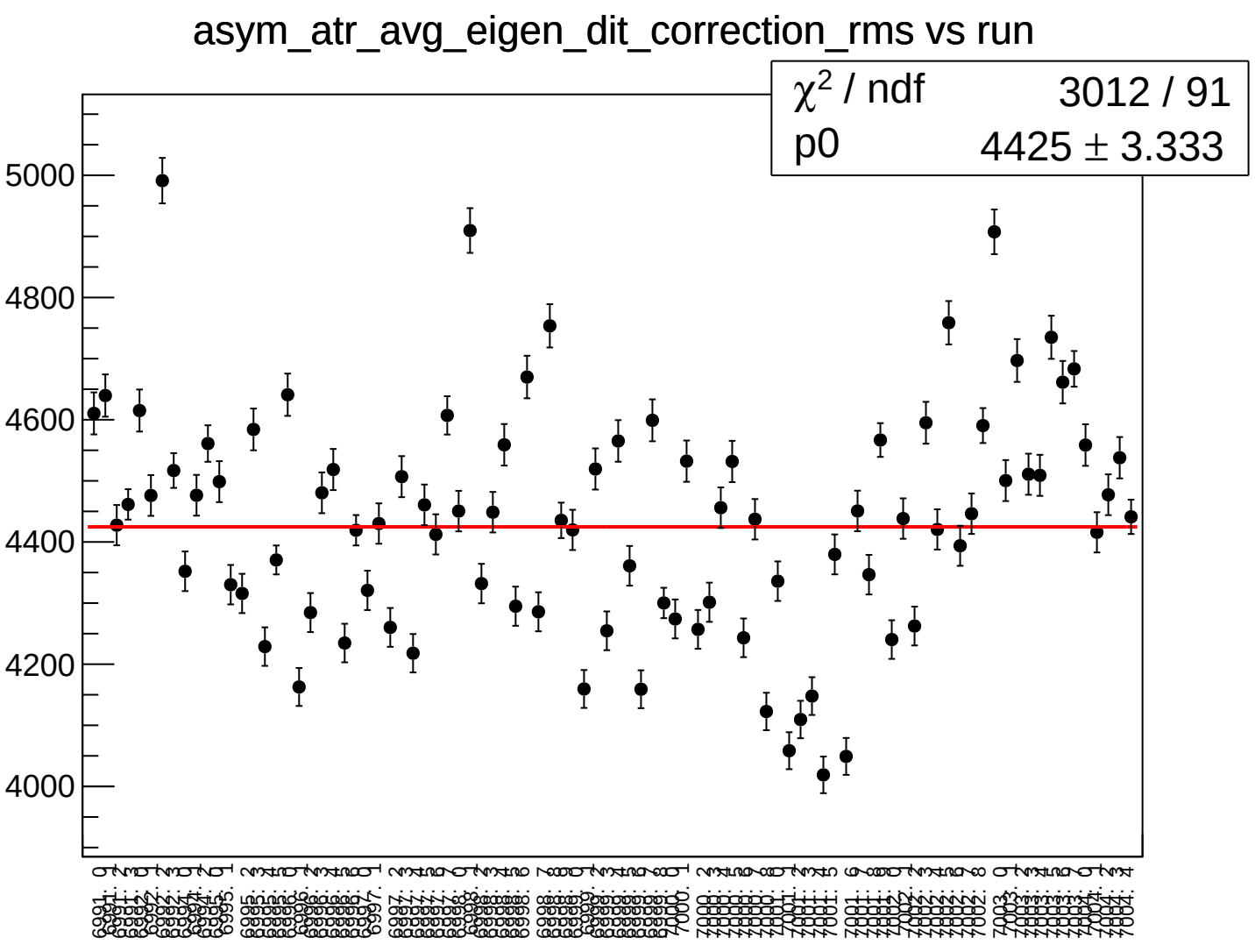

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 3012 / 91
p0 4425 ± 3.333
5000
4800
4600
4400
4200
4000

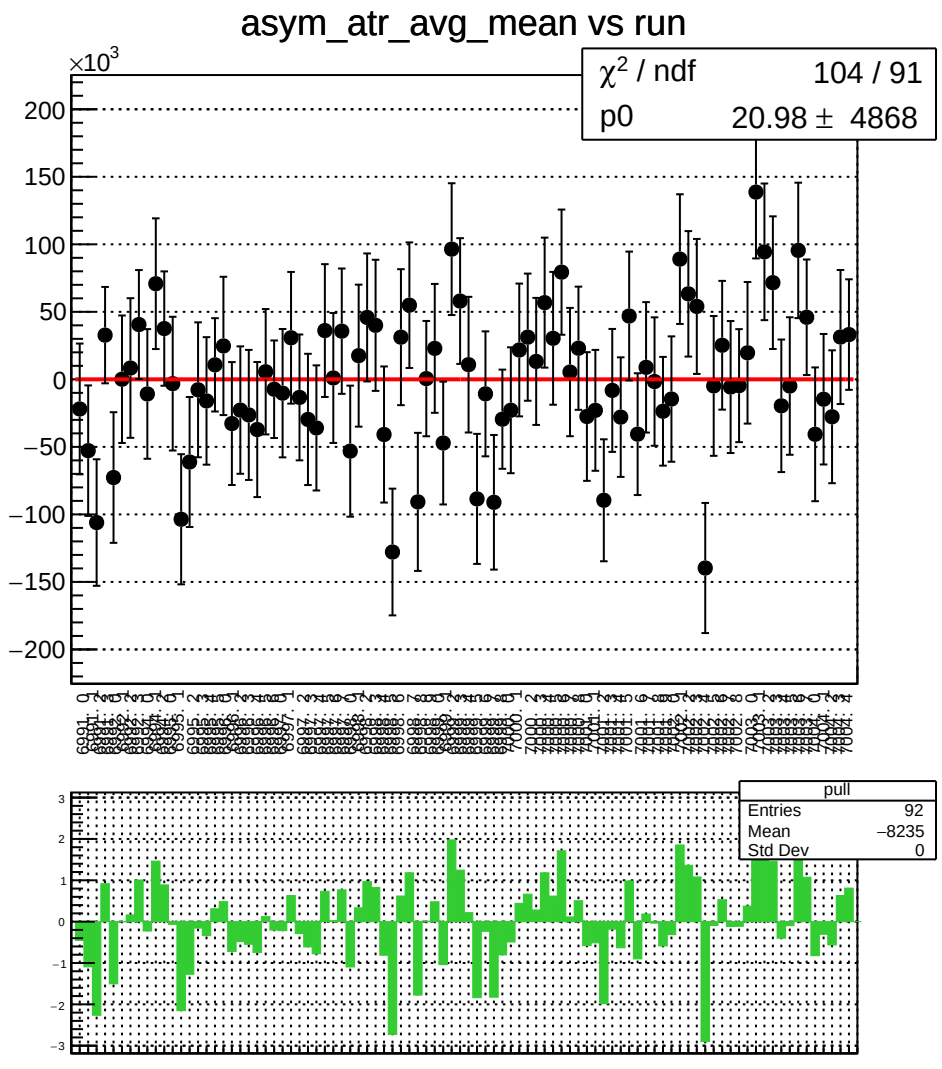

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 80.58 / 91
p0 −3536 ± 2021
pull
Entries 92
Mean 620.2
Std Dev 0
pull1D
Entries 92
Mean 0.004352
Std Dev 0.9359

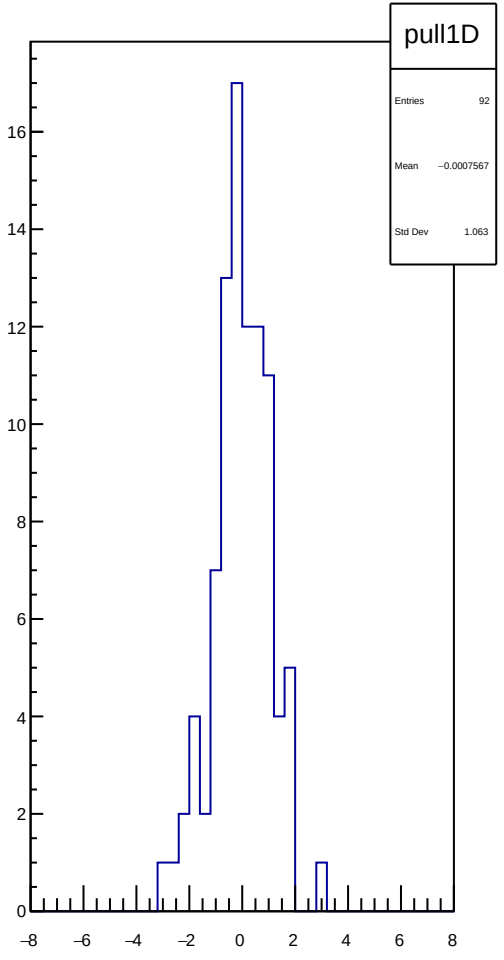

eigen_dit_asym_atr_avg_rms vs run
χ^2 / ndf 461.9 / 91
p0 1898 ± 1.429
2100
2050
2000
1950
1900
1850

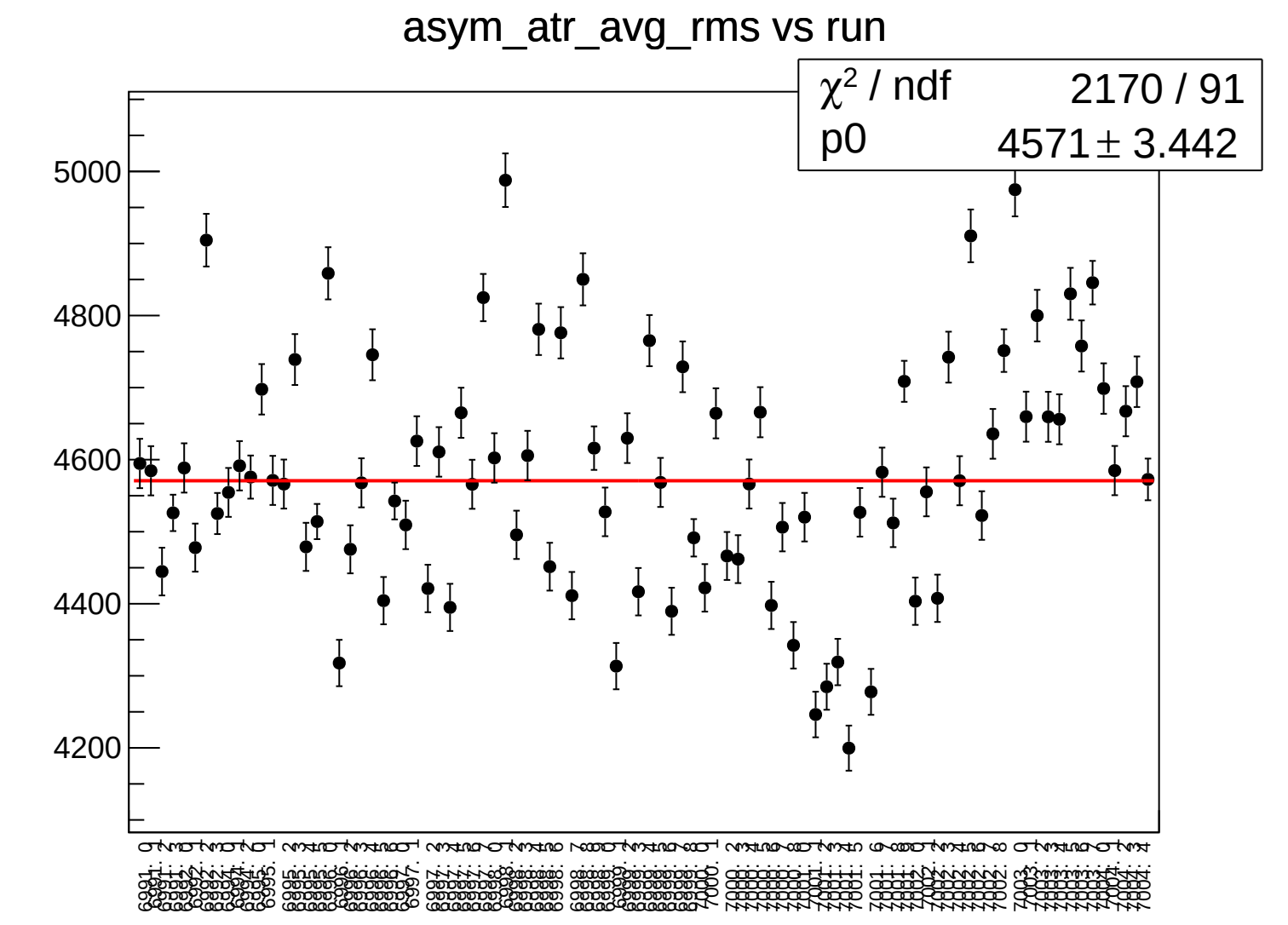

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.8 / 91
p0 −3480 ± 4714
pull
Entries 92
Mean −3480
Std Dev 0

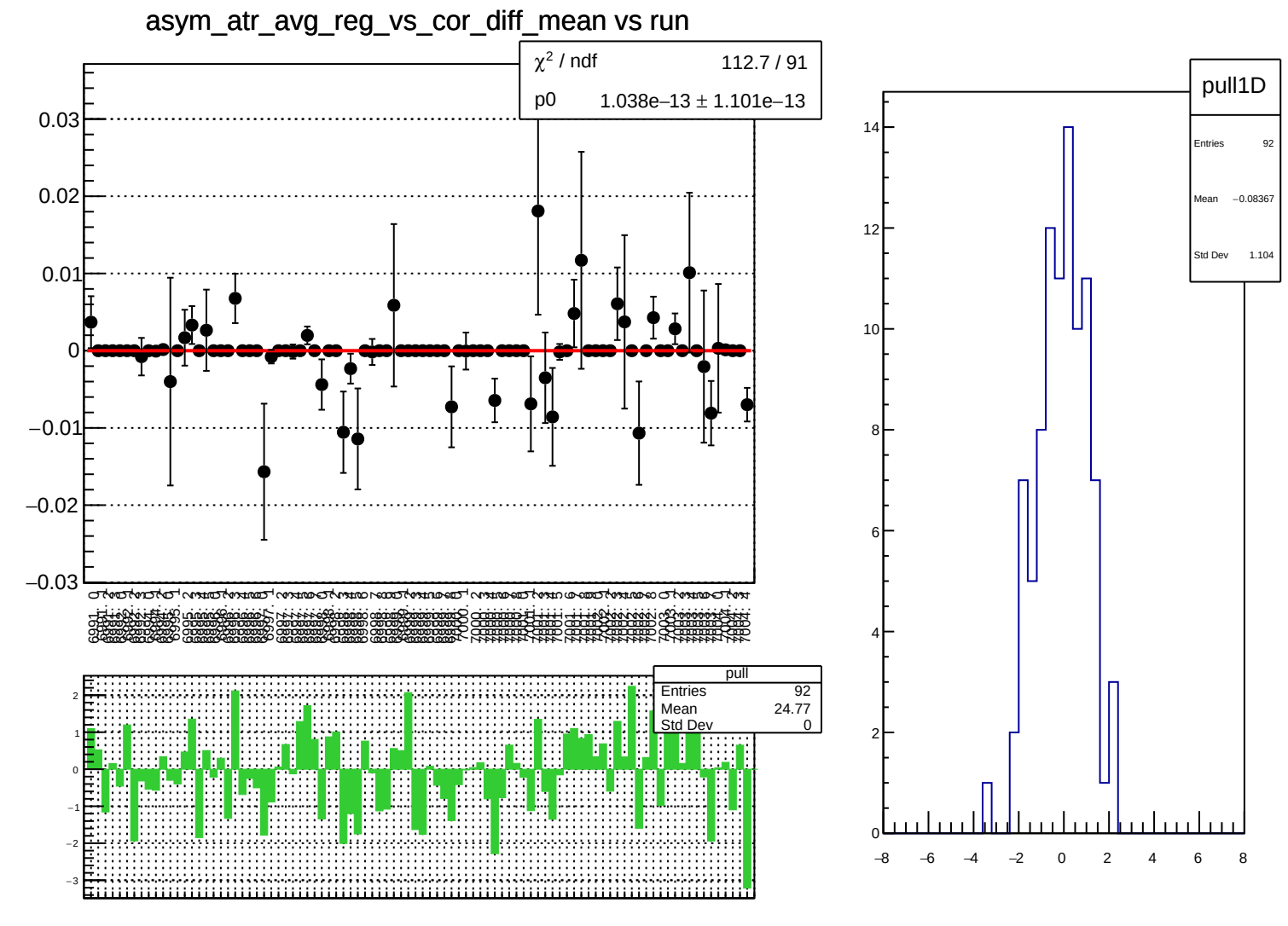

pull1D
Entries 92
Mean 0.001498
Std Dev 1.082

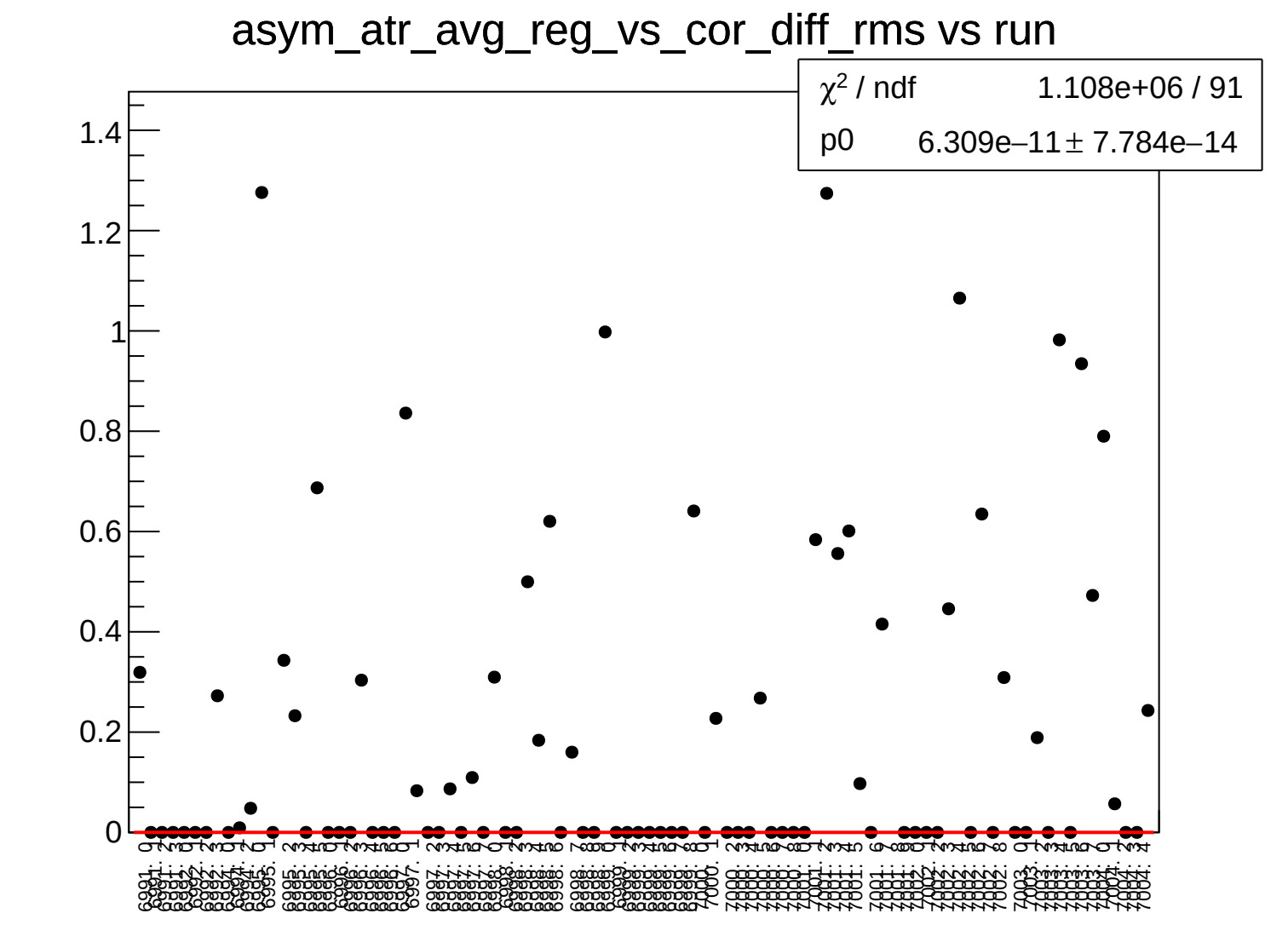

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 3012 / 91
p0 4425 ± 3.333
5000
4800
4600
4400
4200
4000

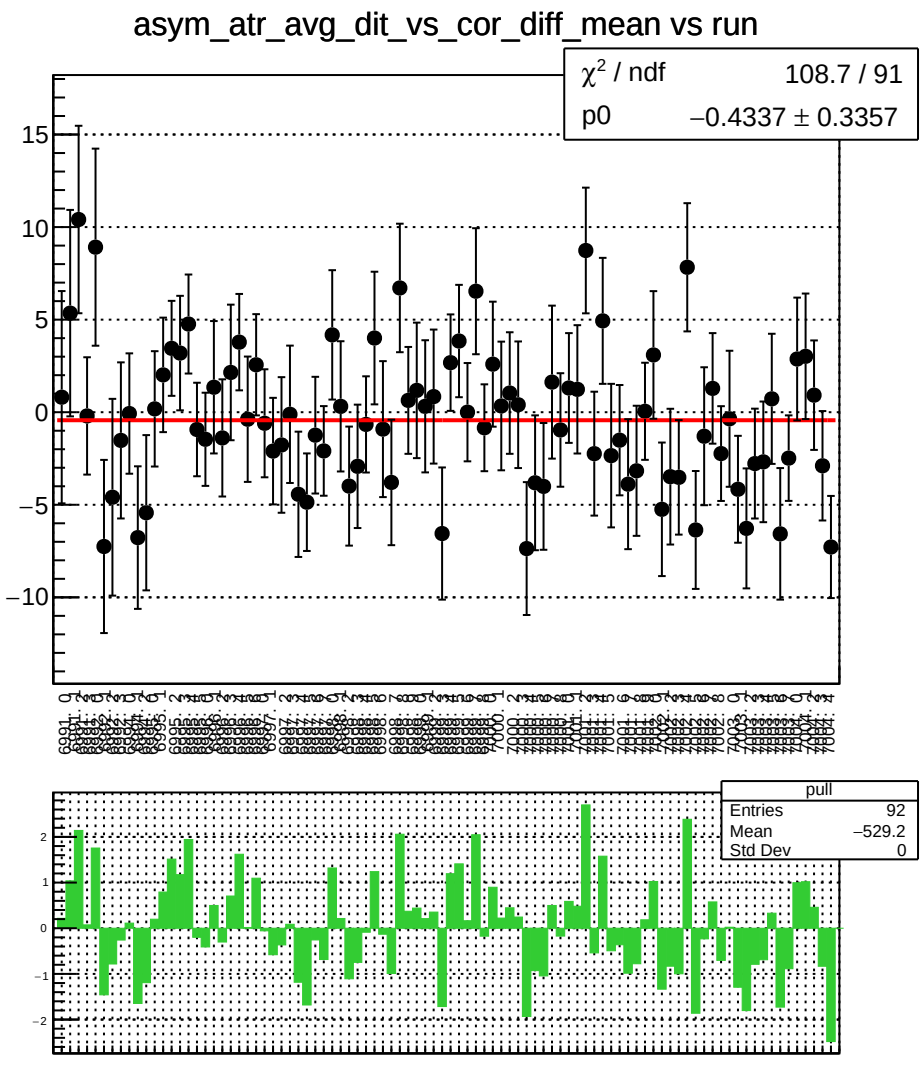

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 104 / 91
p0 20.98 ± 4868
pull
Entries 92
Mean −8235
Std Dev 0

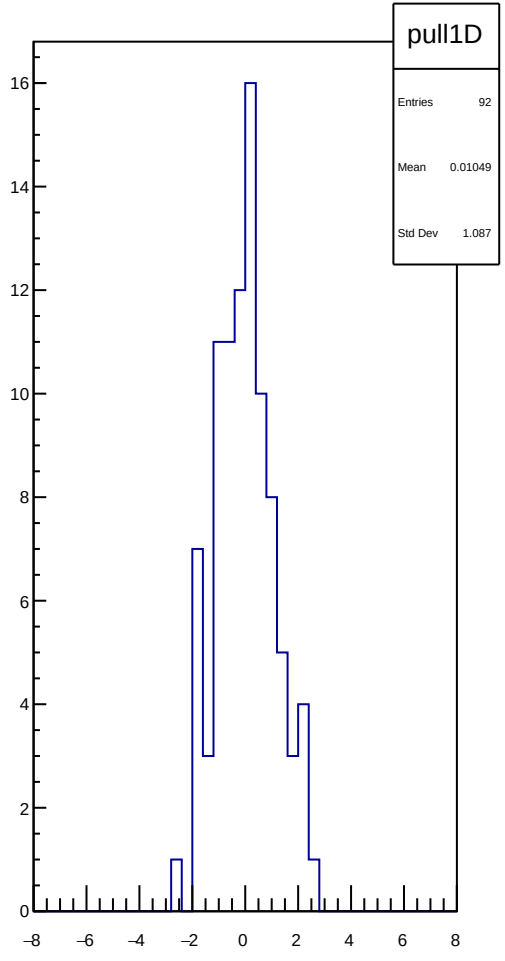

pull1D
Entries 92
Mean −0.0007567
Std Dev 1.063

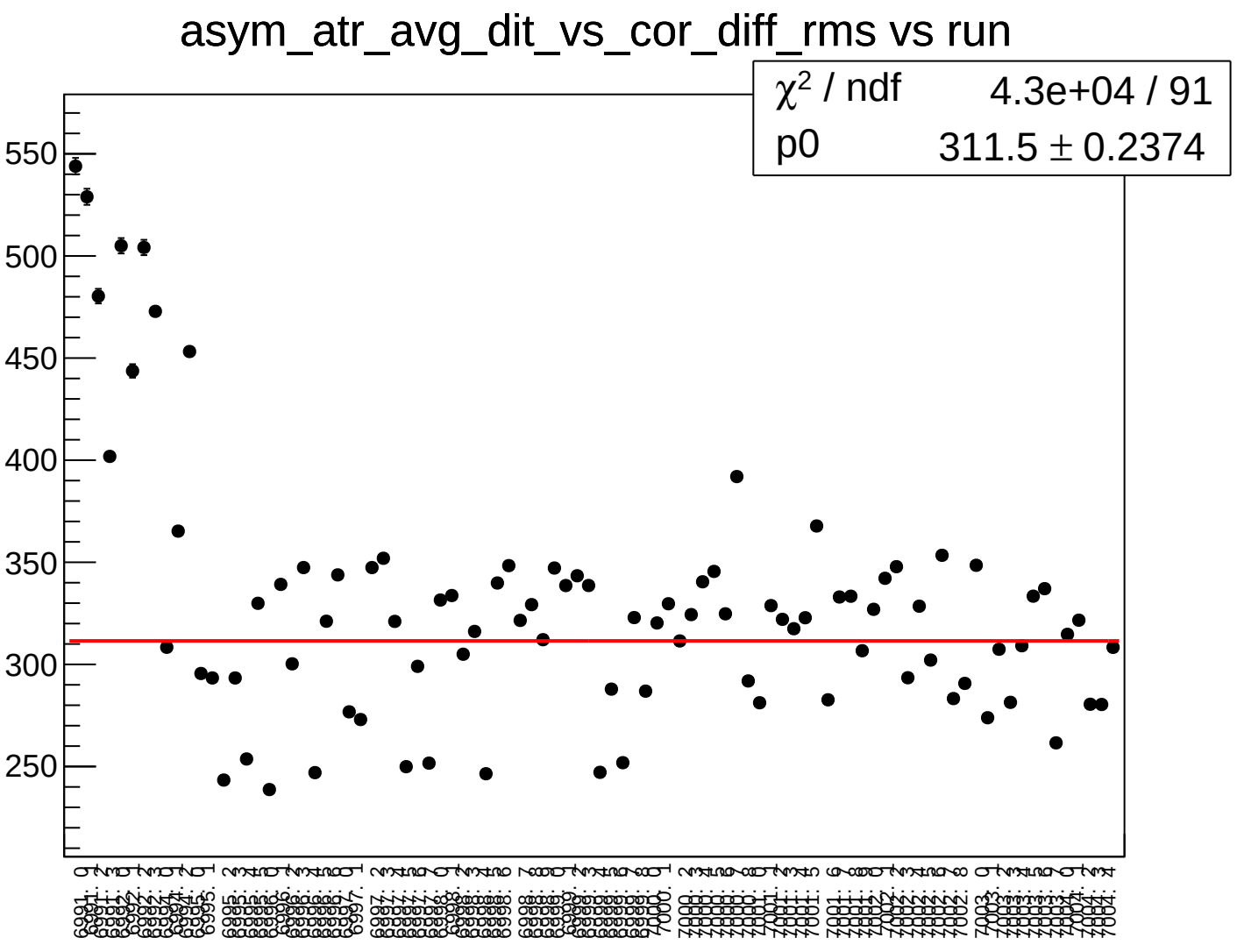

asym_atr_avg_rms vs run
χ² / ndf 2170 / 91
p0 4571 ± 3.442
5000
4800
4600
4400
4200

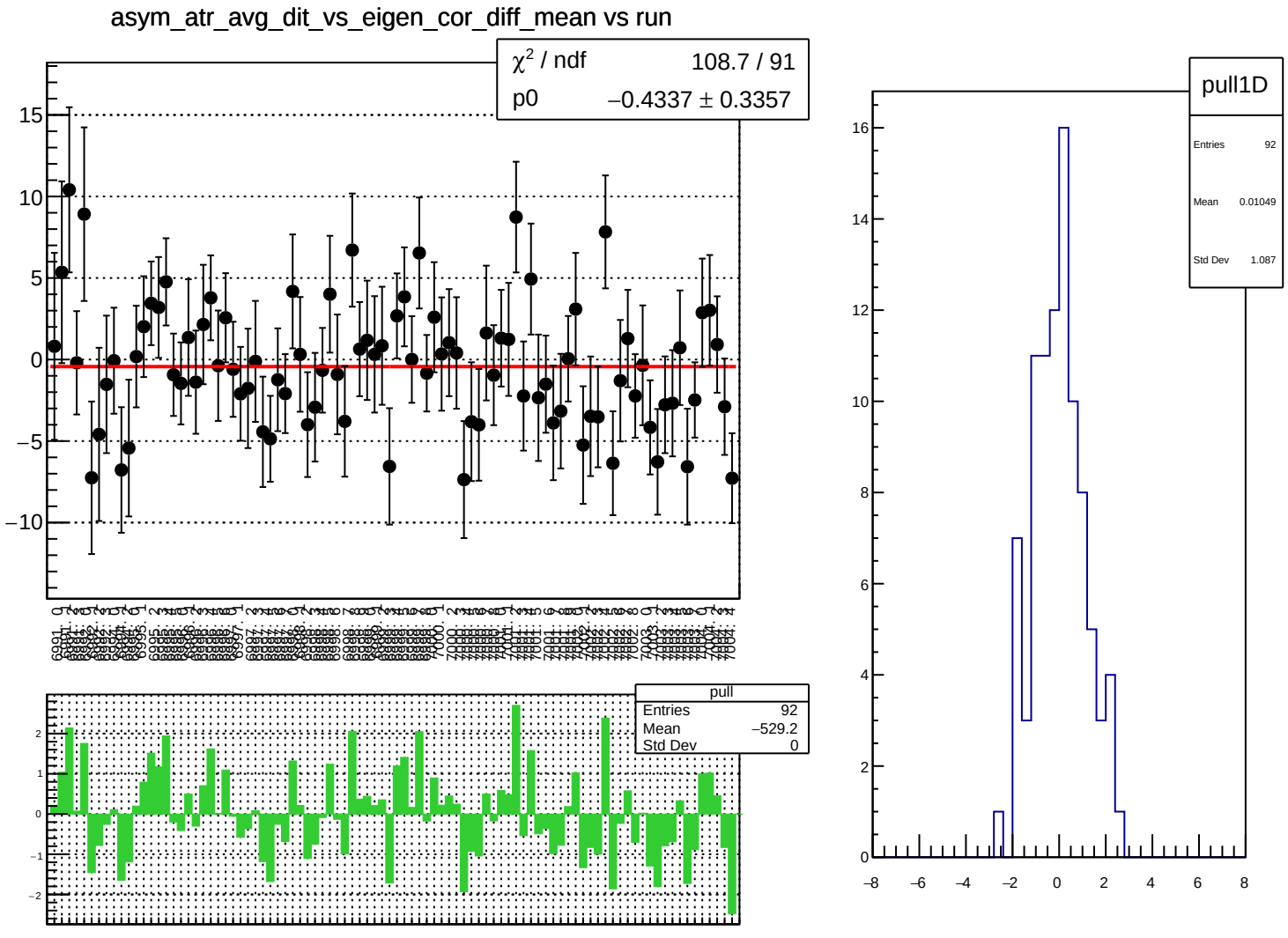

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 91
p0 1.038e−13 ± 1.101e−13
pull
Entries 92
Mean 24.77
Std Dev 0
pull1D
Entries 92
Mean −0.08367
Std Dev 1.104

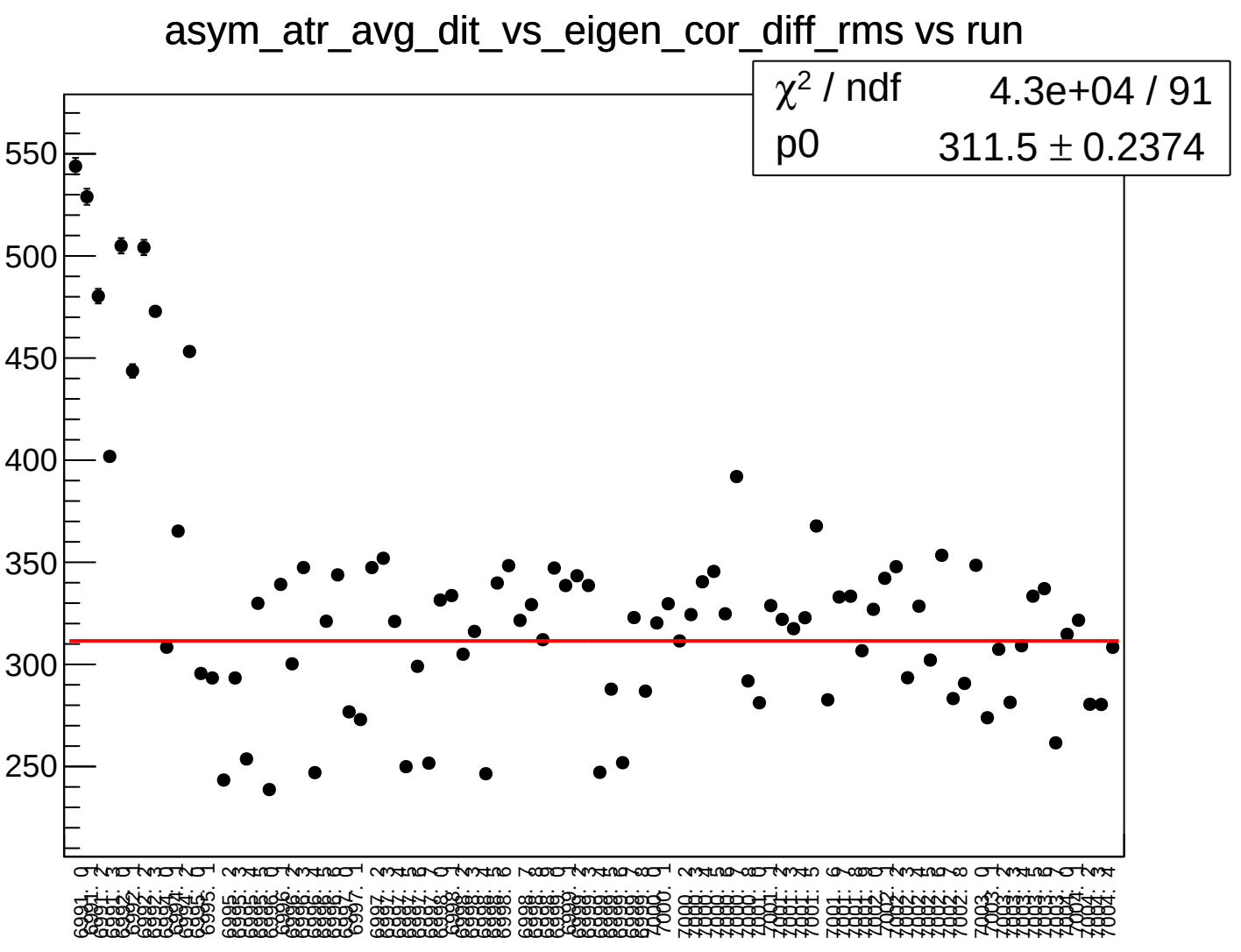

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.108e+06 / 91
p0 6.309e−11 ± 7.784e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

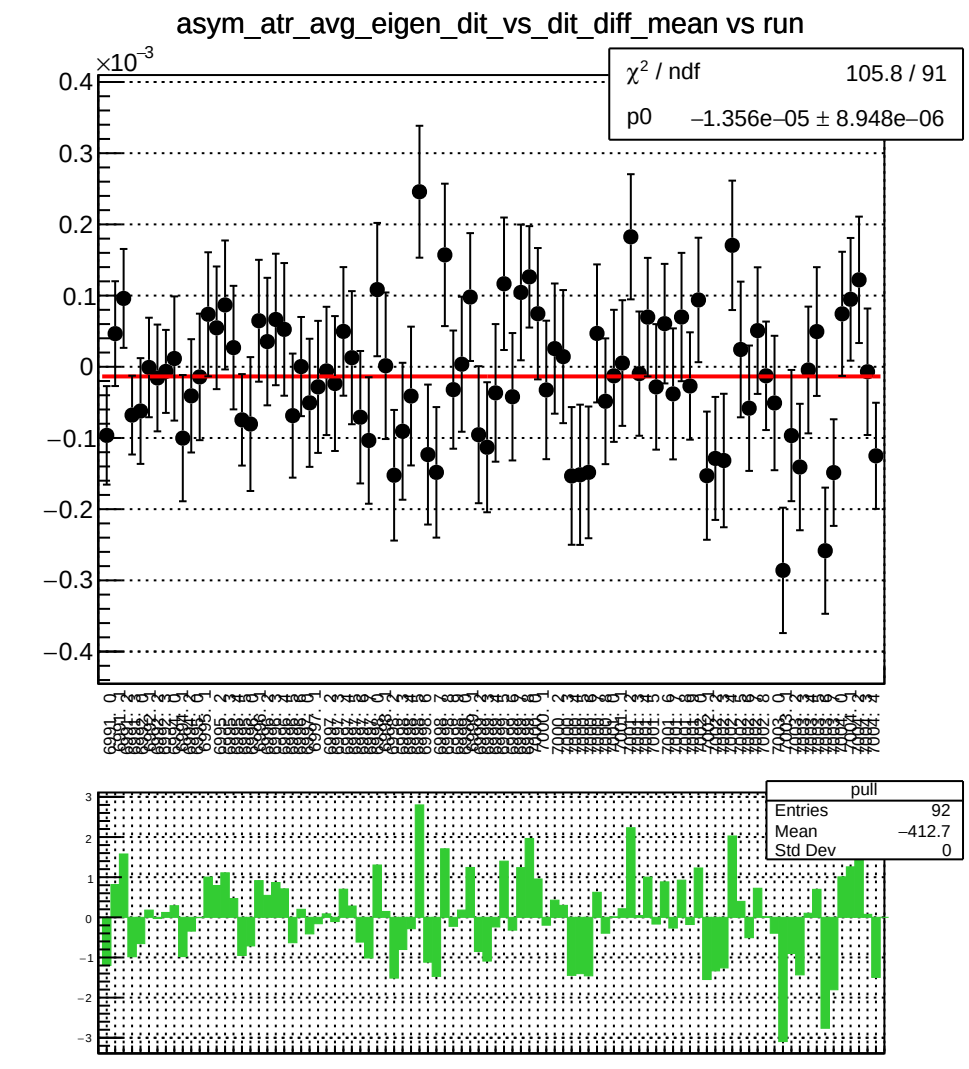

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 91
p0 −0.4337 ± 0.3357
15
10
5
0
−5
−10
pull
Entries 92
Mean −529.2
Std Dev 0
2
1
0
−1
−2

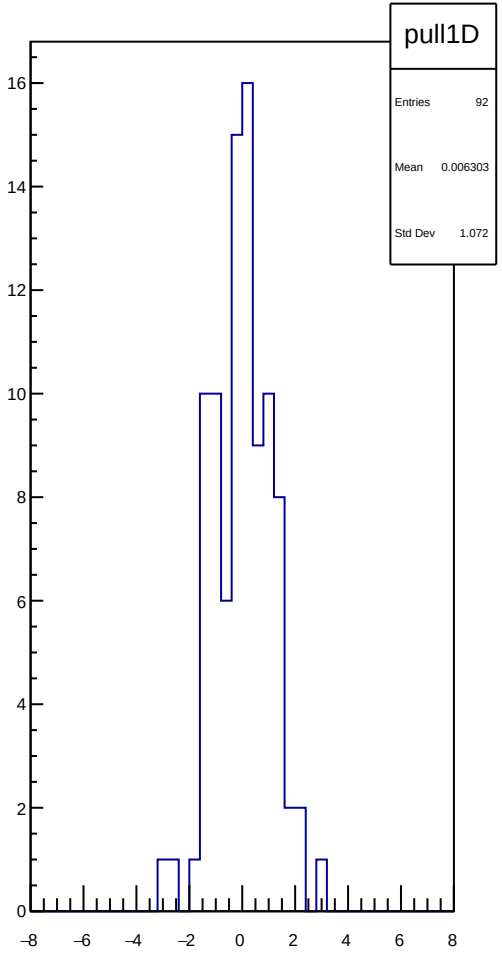

pull1D
Entries 92
Mean 0.01049
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

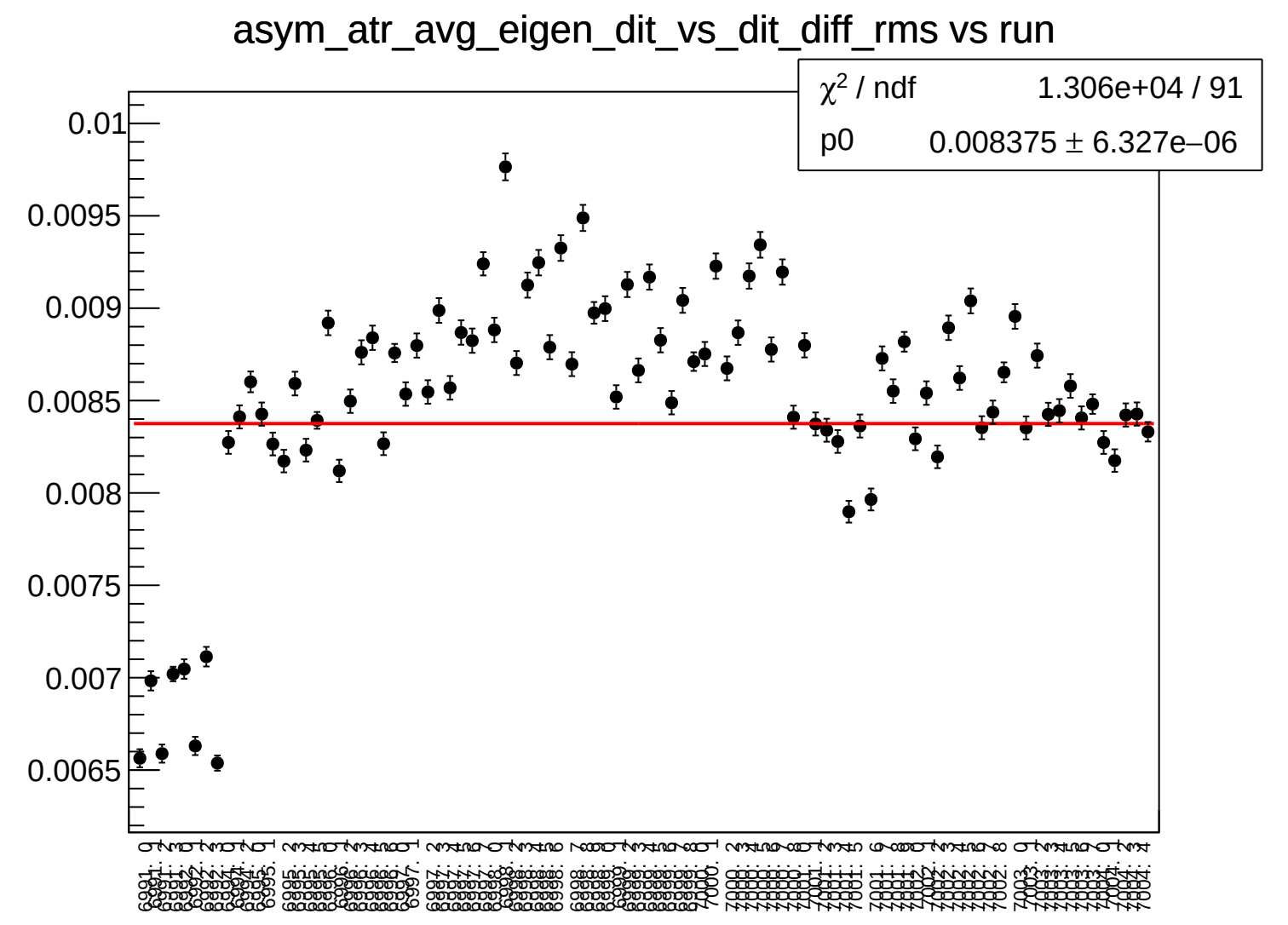

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.3e+04 / 91
p0 311.5 ± 0.2374
550
500
450
400
350
300
250

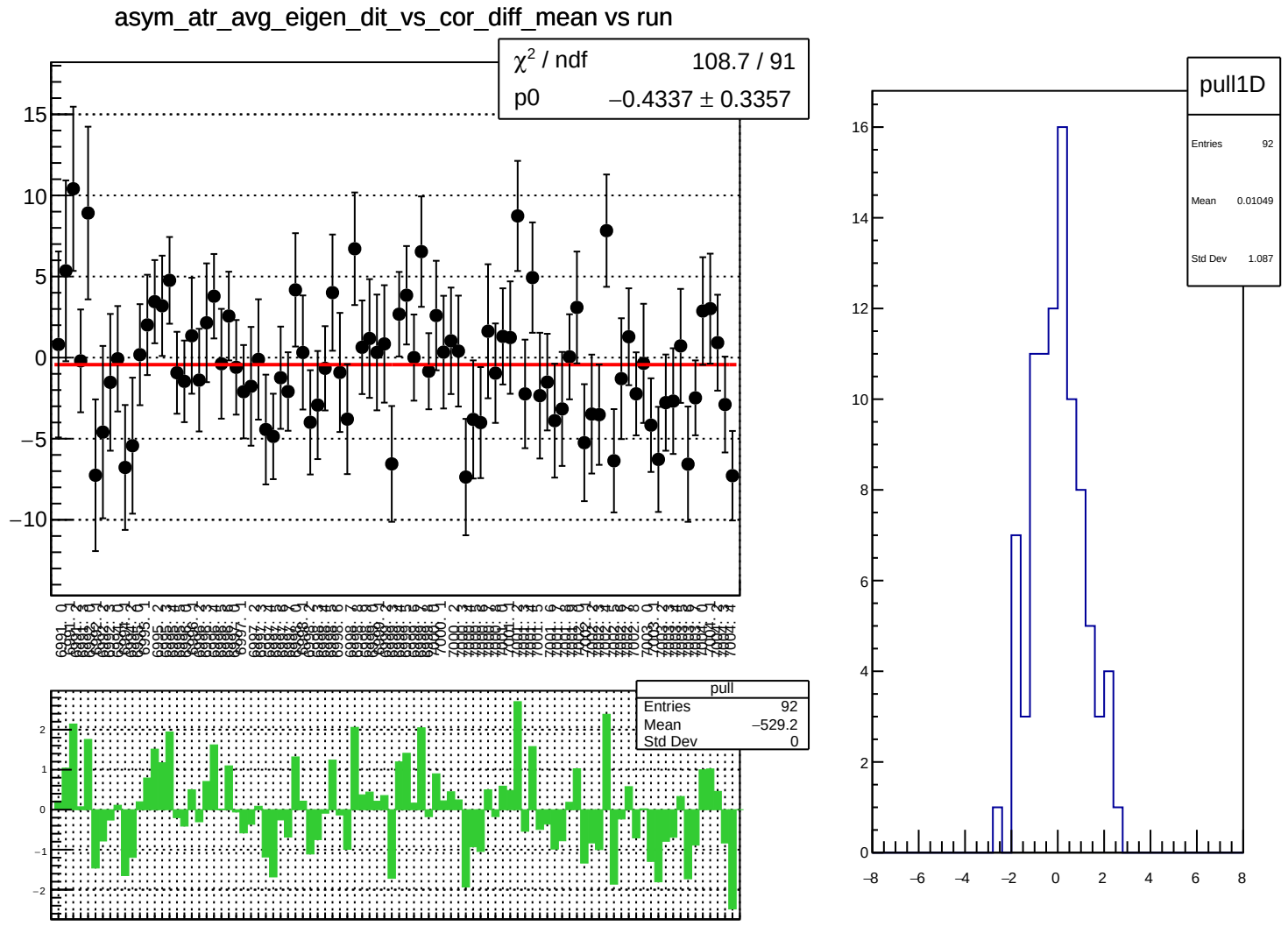

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.7 / 91
p0 −0.4337 ± 0.3357
pull
Entries 92
Mean −529.2
Std Dev 0
pull1D
Entries 92
Mean 0.01049
Std Dev 1.087

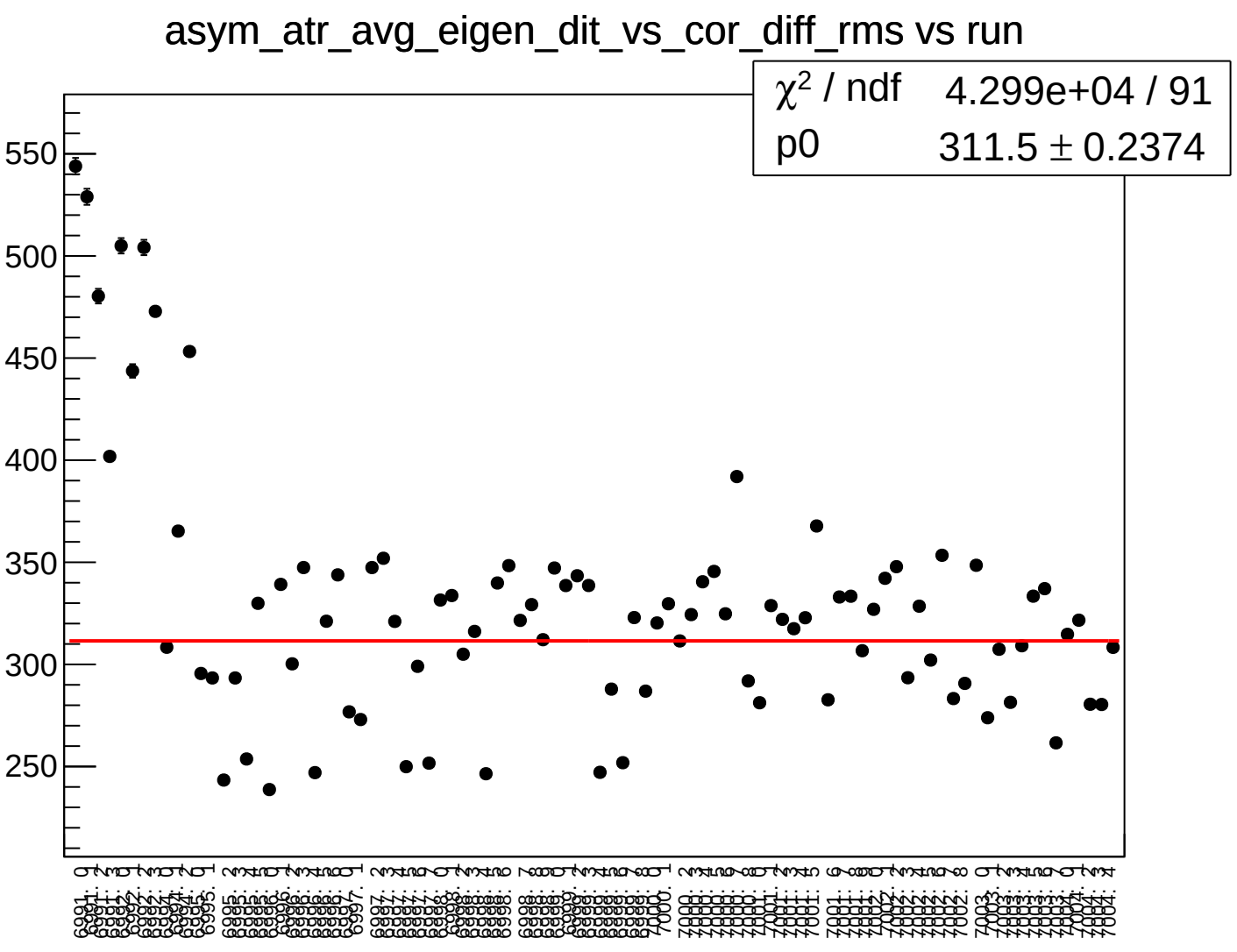

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.3e+04 / 91
p0 311.5 ± 0.2374
550
500
450
400
350
300
250

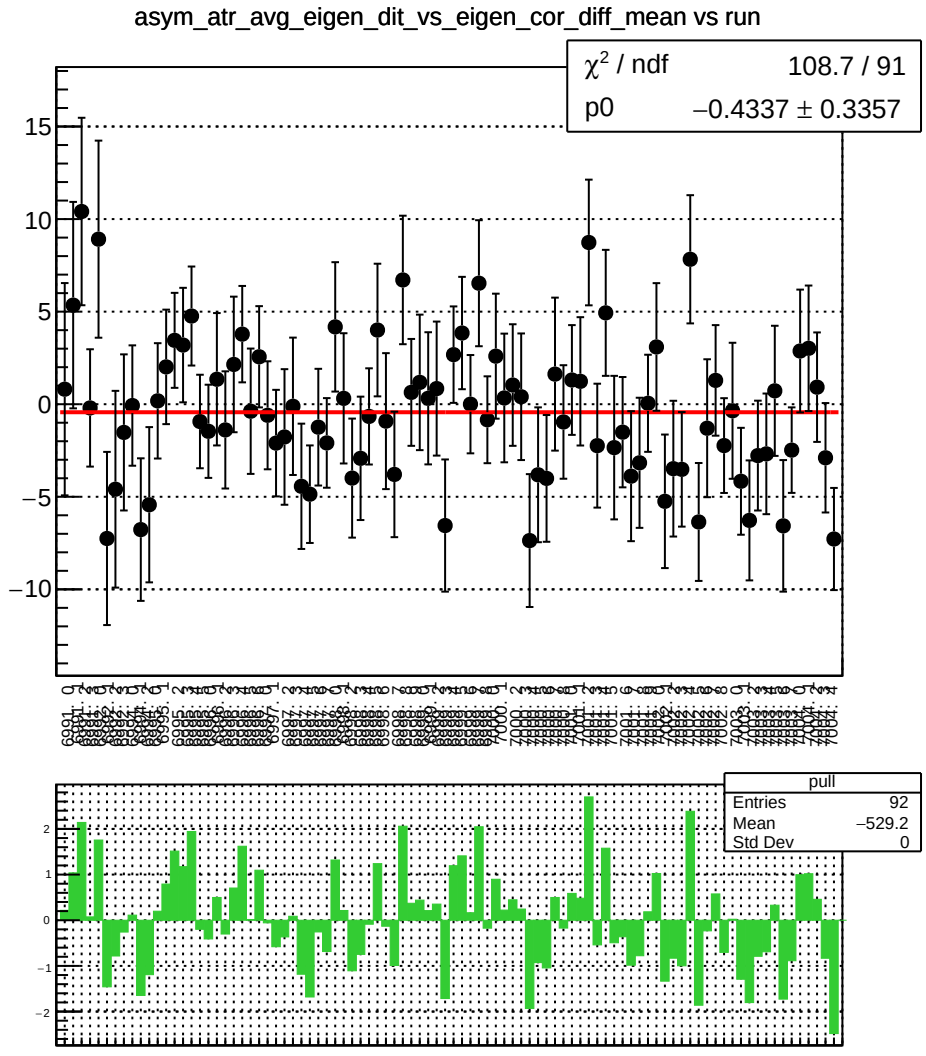

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.8 / 91
p0 −1.356e−05 ± 8.948e−06
pull
Entries 92
Mean −412.7
Std Dev 0

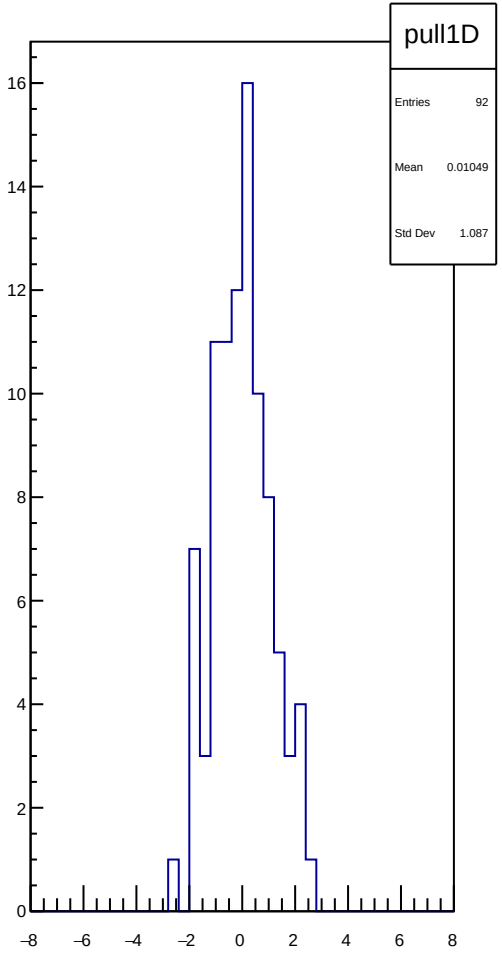

pull1D
Entries 92
Mean 0.006303
Std Dev 1.072

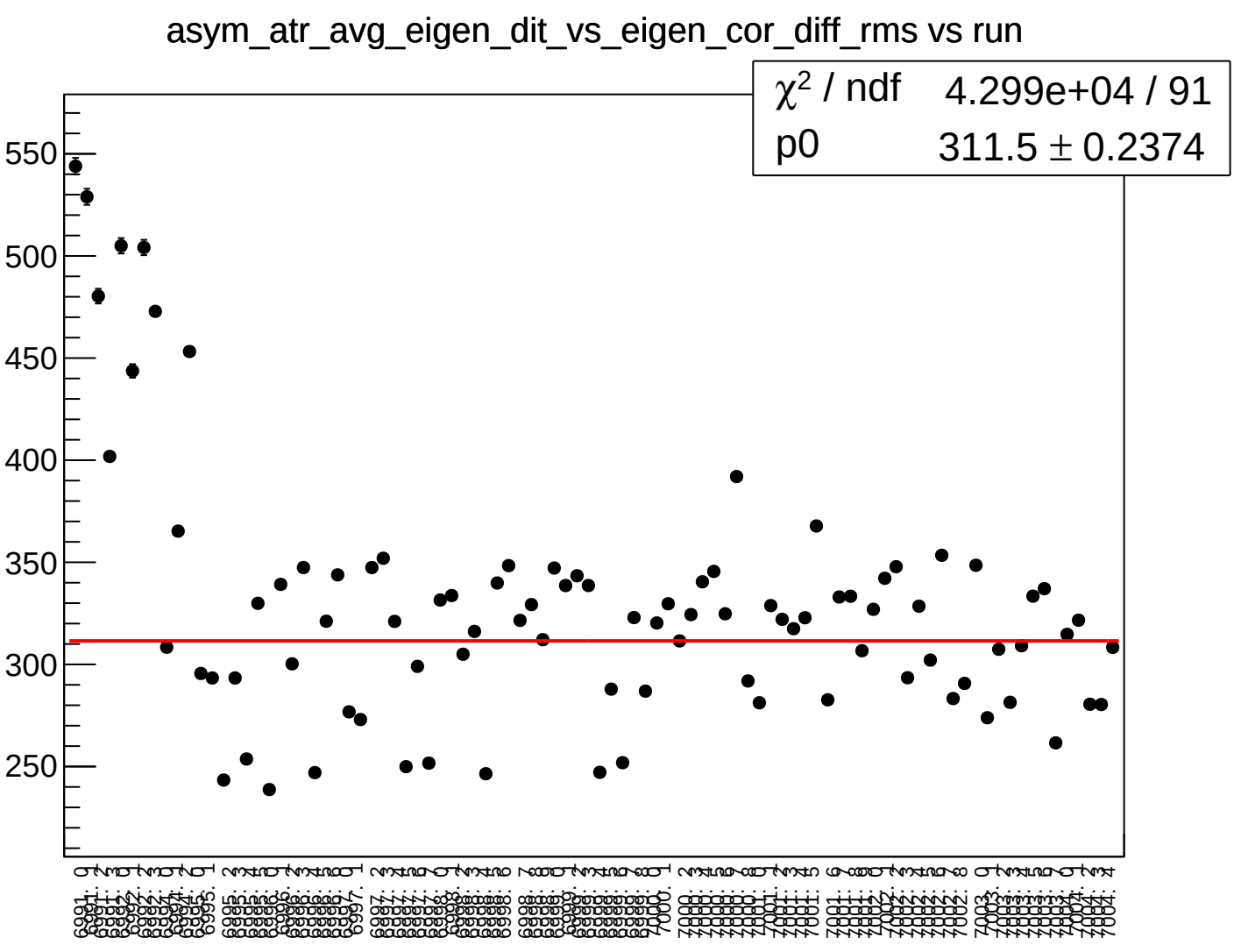

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.306e+04 / 91
p0 0.008375 ± 6.327e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

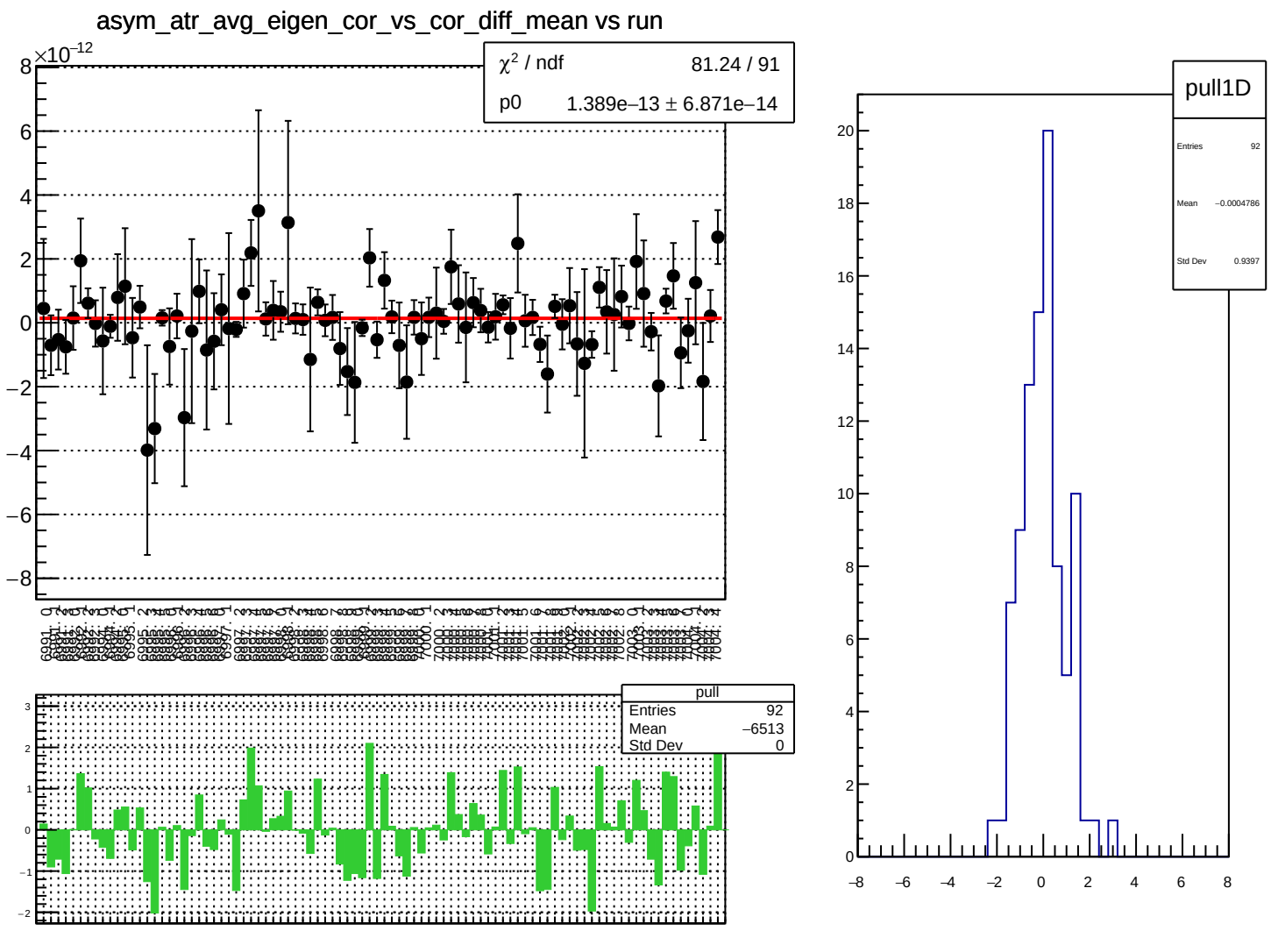

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.7 / 91
p0 −0.4337 ± 0.3357
15
10
5
0
−5
−10
pull
Entries 92
Mean −529.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01049
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

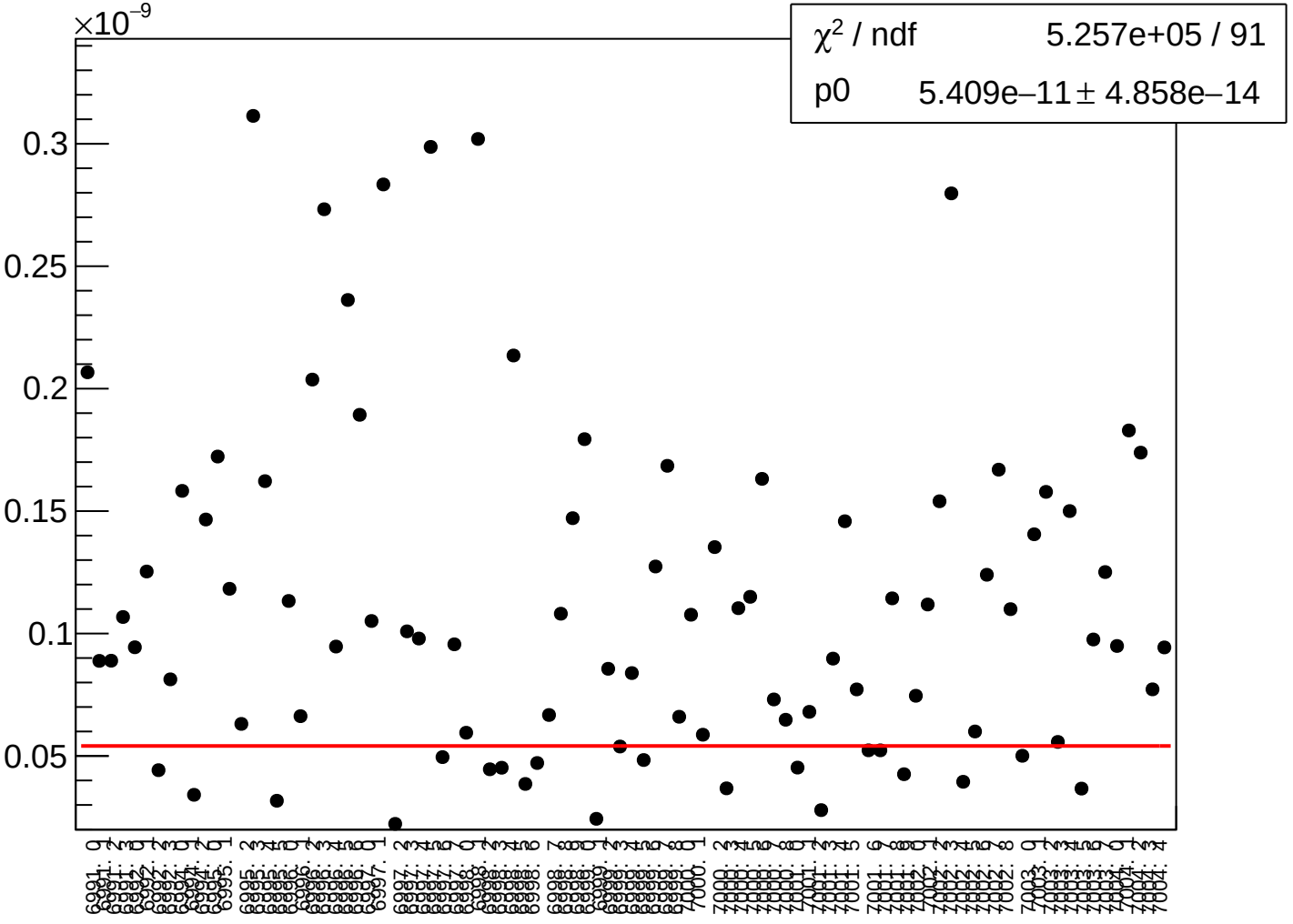

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.299e+04 / 91
p0 311.5 ± 0.2374
550
500
450
400
350
300
250

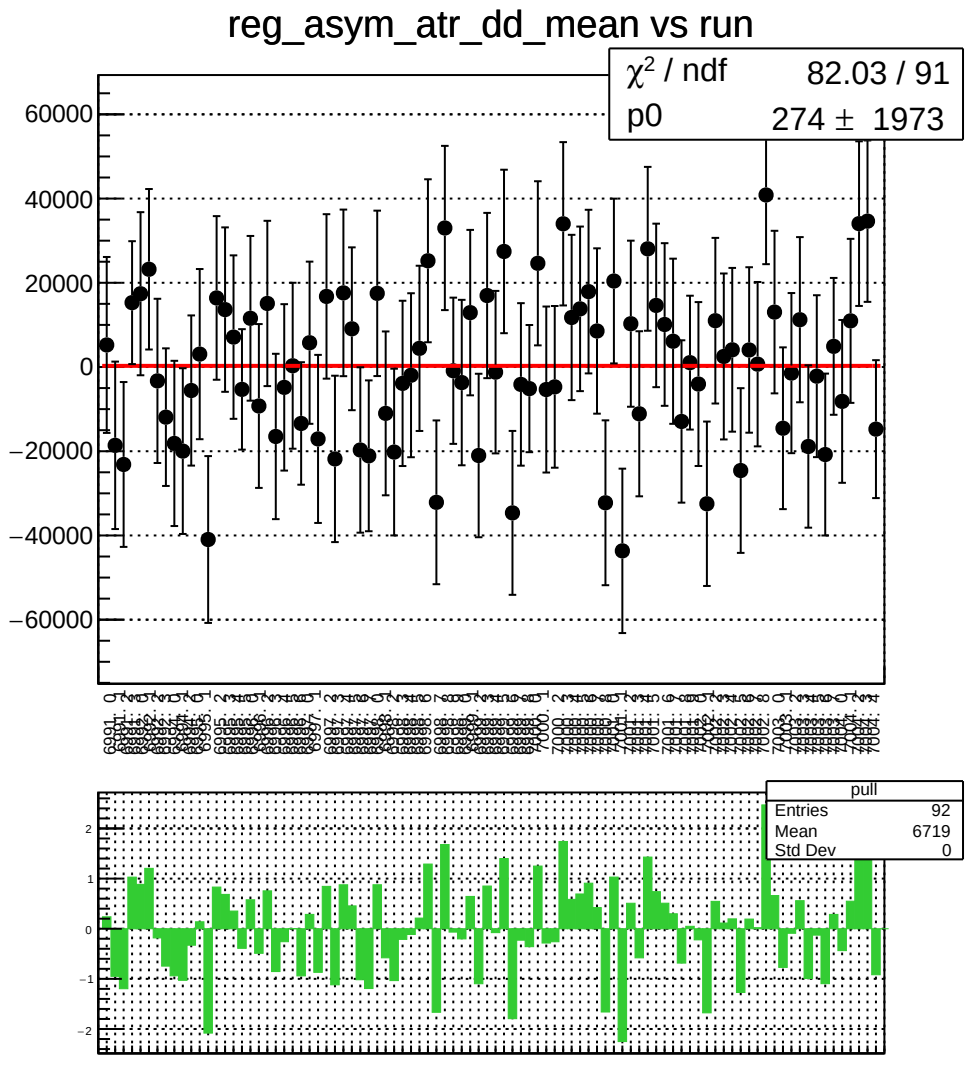

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.7 / 91
p0 −0.4337 ± 0.3357
pull
Entries 92
Mean −529.2
Std Dev 0

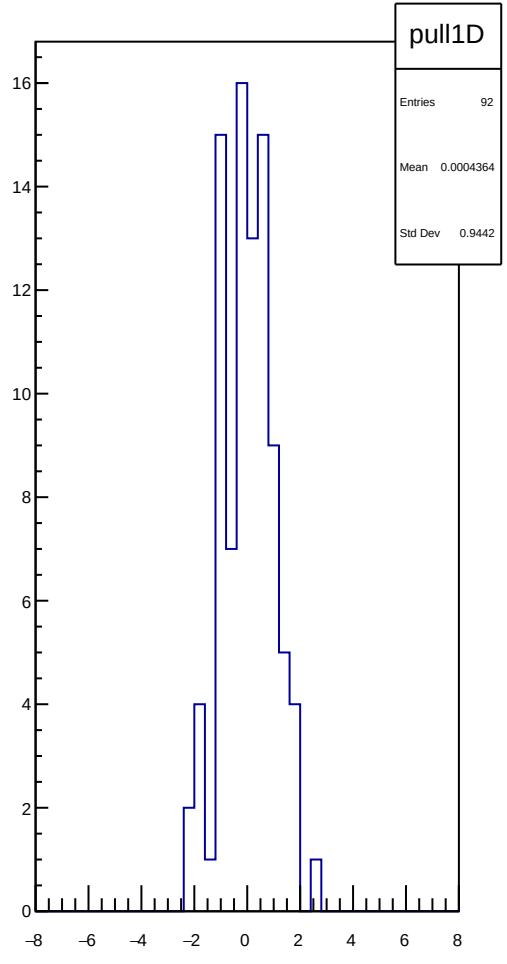

pull1D
Entries 92
Mean 0.01049
Std Dev 1.087

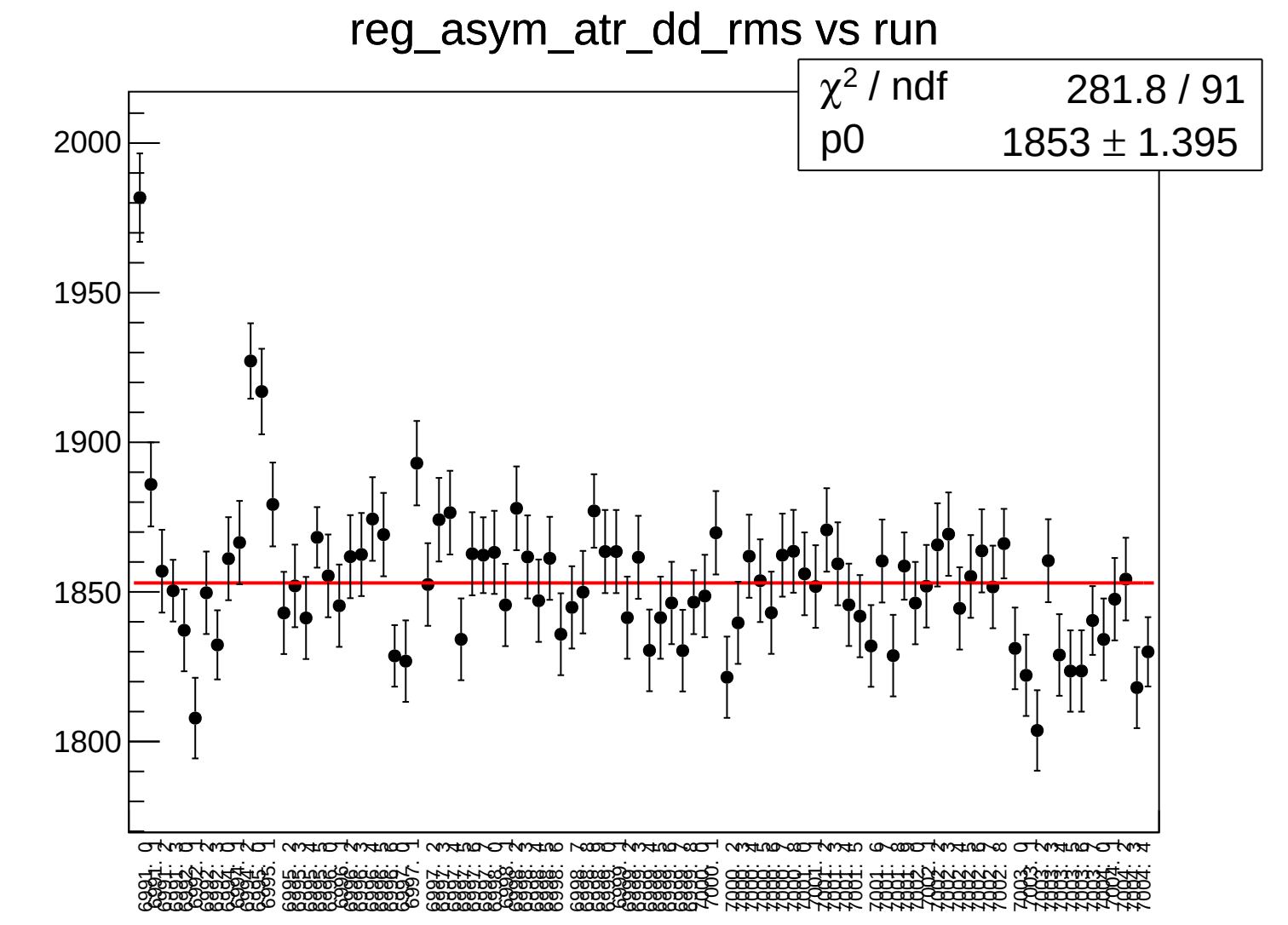

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.299e+04 / 91
p0 311.5 ± 0.2374
550
500
450
400
350
300
250

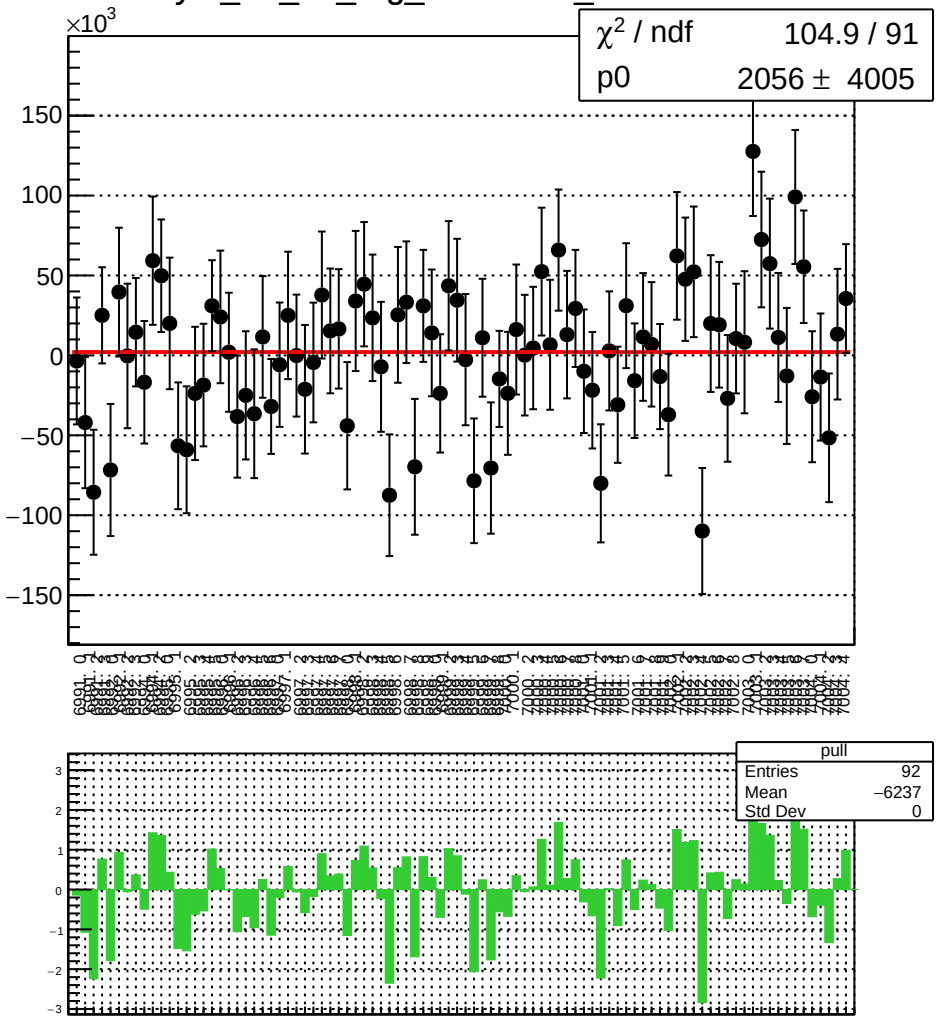

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.24 / 91
p0 1.389e−13 ± 6.871e−14
pull
Entries 92
Mean −6513
Std Dev 0
pull1D
Entries 92
Mean −0.0004786
Std Dev 0.9397

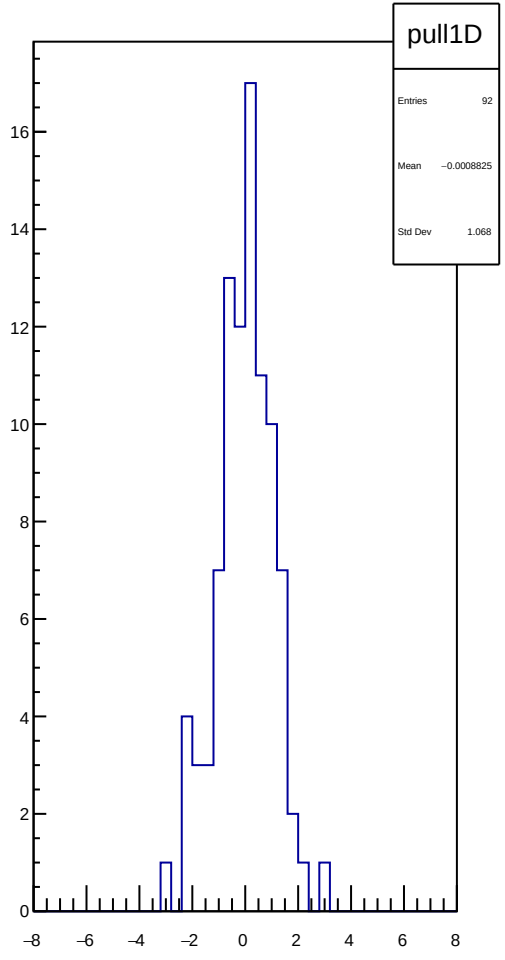

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.257e+05 / 91
p0 5.409e−11 ± 4.858e−14
0.3
0.25
0.2
0.15
0.1
0.05

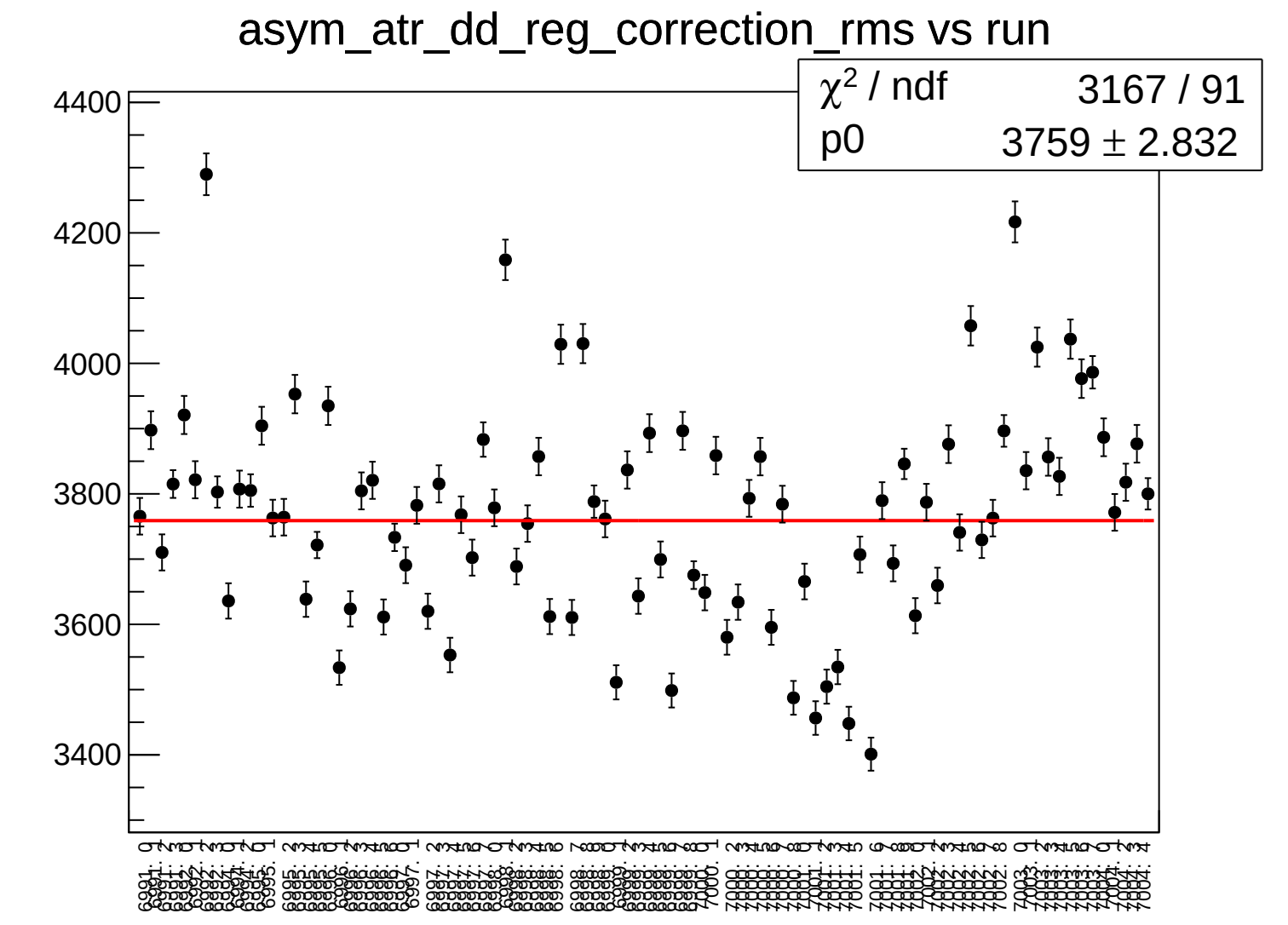

reg_asym_atr_dd_mean vs run
χ² / ndf 82.03 / 91
p0 274 ± 1973
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6719
Std Dev 0
2
1
0
−1
−2

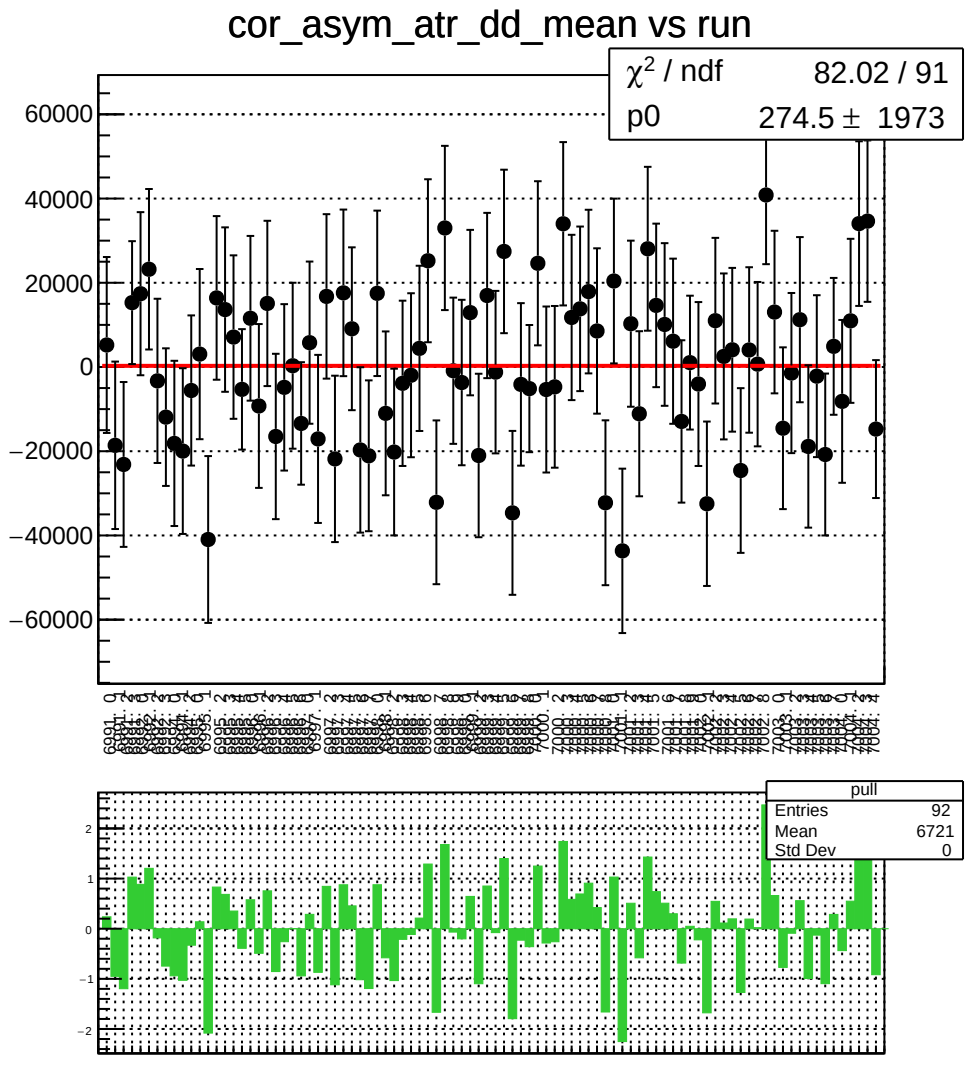

pull1D
Entries 92
Mean 0.0004364
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

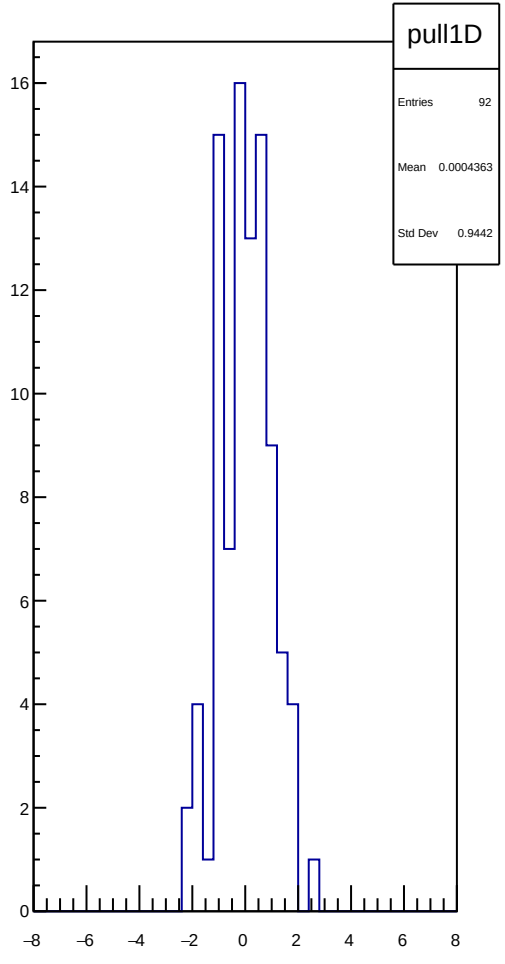

reg_asym_atr_dd_rms vs run
χ^2 / ndf 281.8 / 91
p0 1853 ± 1.395
2000
1950
1900
1850
1800

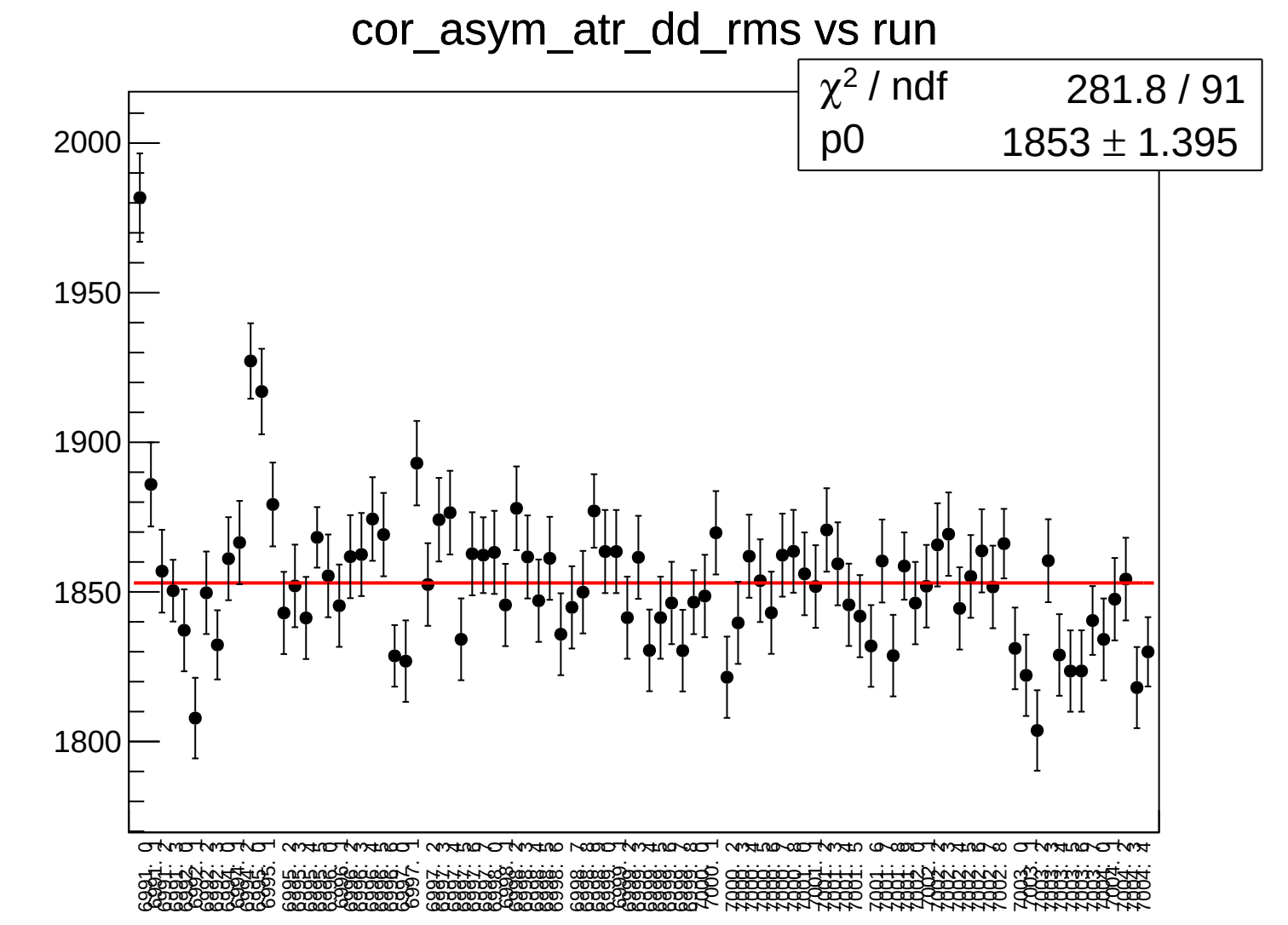

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 104.9 / 91
p0 2056 ± 4005
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −6237
Std Dev 0
3
2
1
0
−1
−2
−3

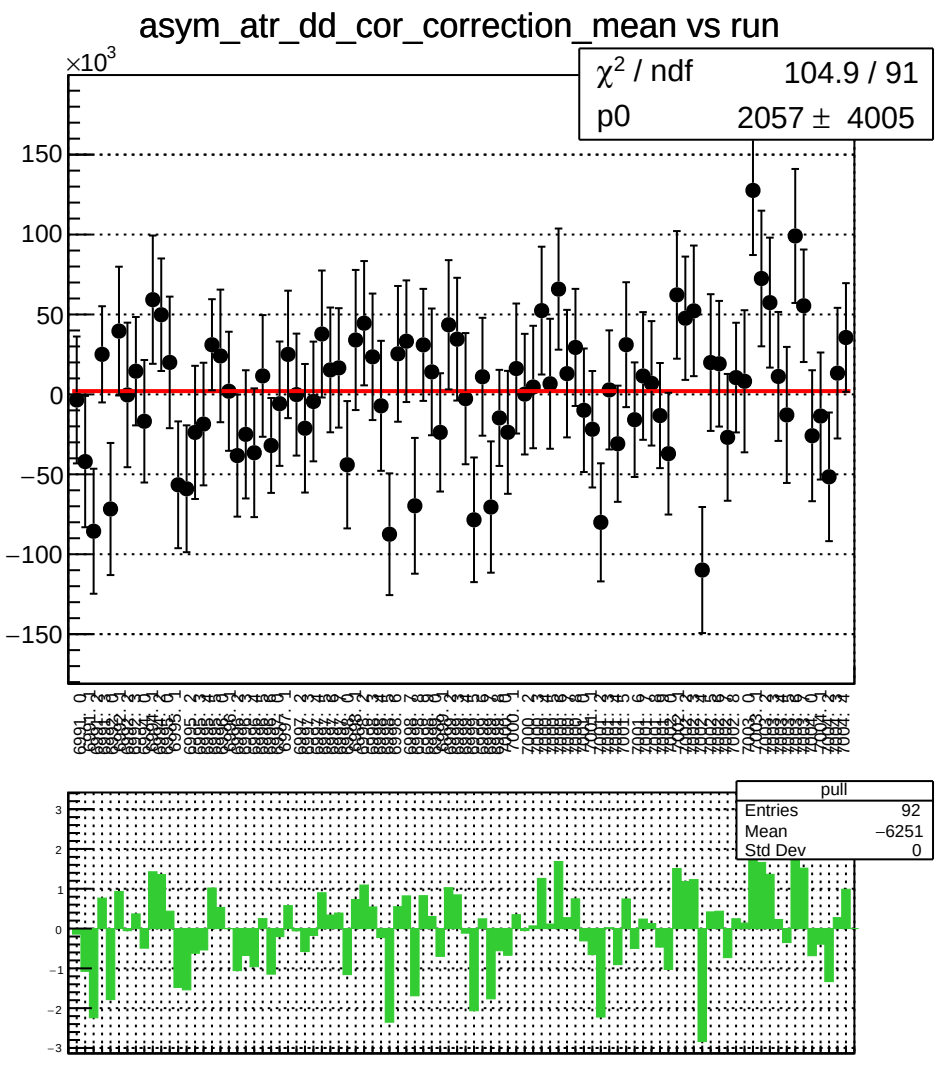

pull1D
Entries 92
Mean −0.0008825
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

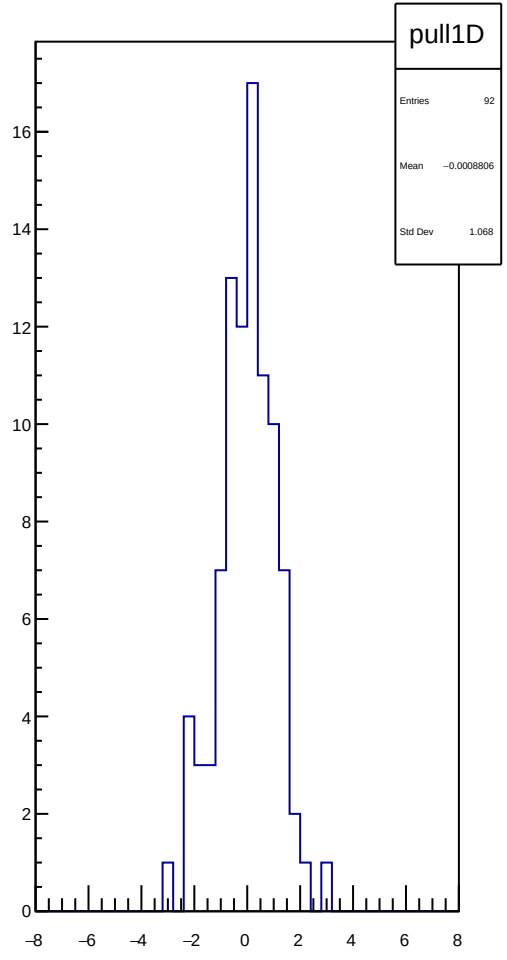

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3167 / 91
p0 3759 ± 2.832
4400
4200
4000
3800
3600
3400

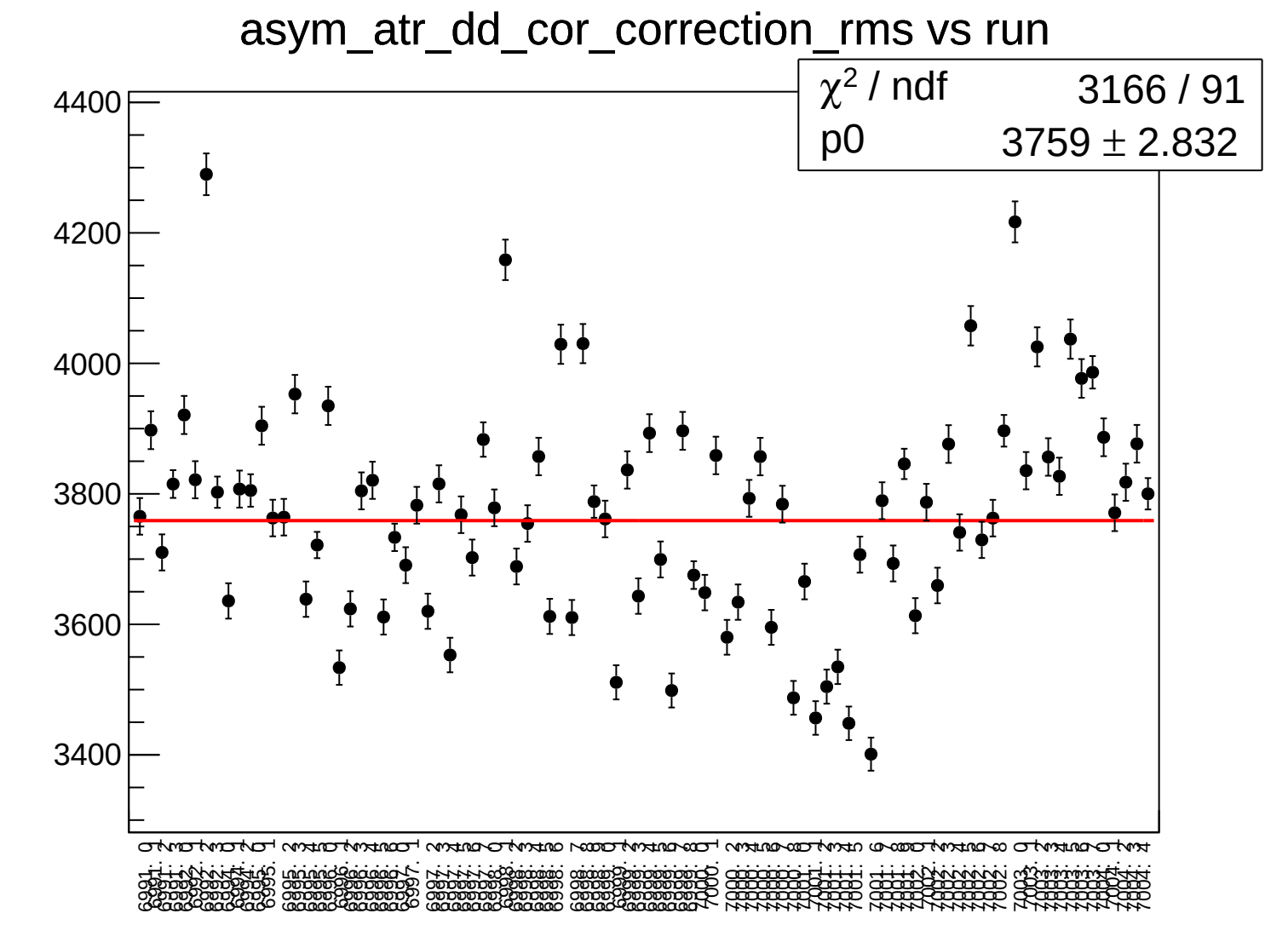

cor_asym_atr_dd_mean vs run
χ² / ndf 82.02 / 91
p0 274.5 ± 1973
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6721
Std Dev 0
2
1
0
−1
−2

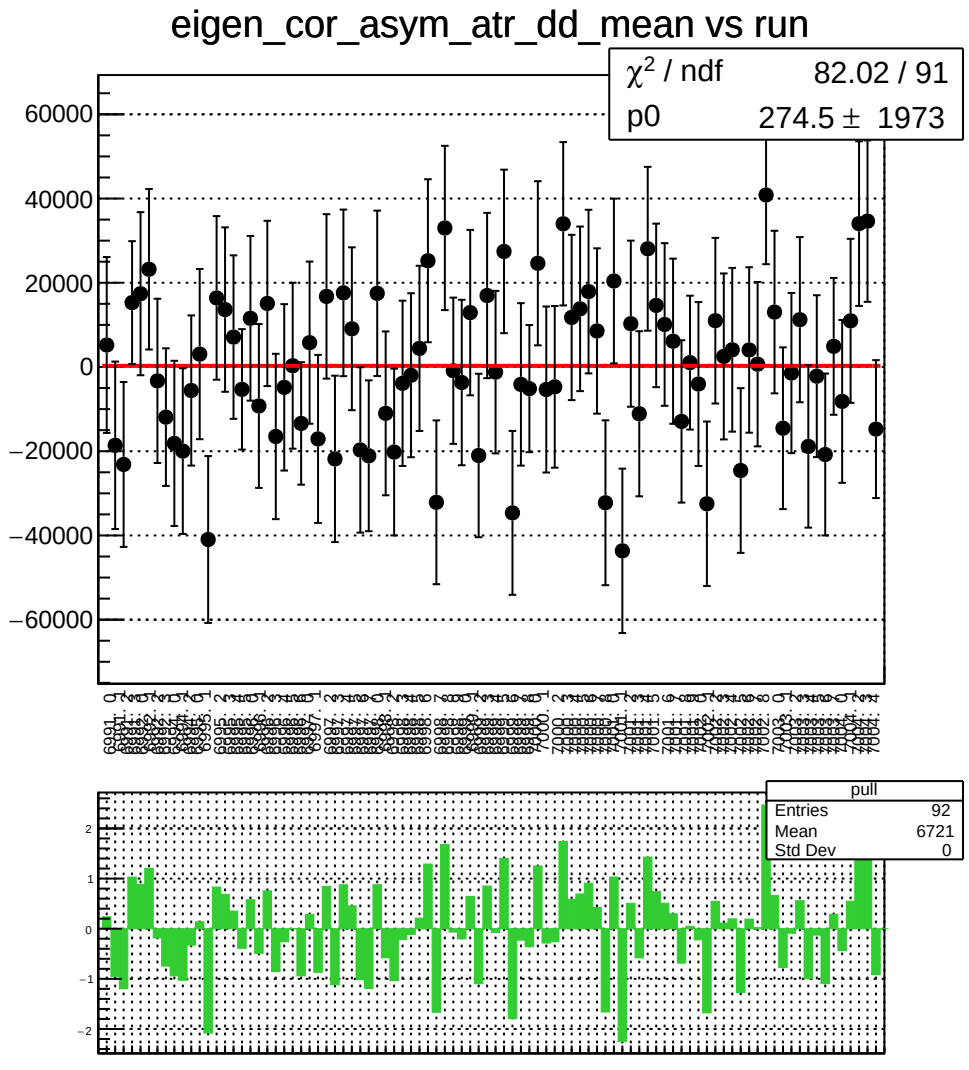

pull1D
Entries 92
Mean 0.0004363
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

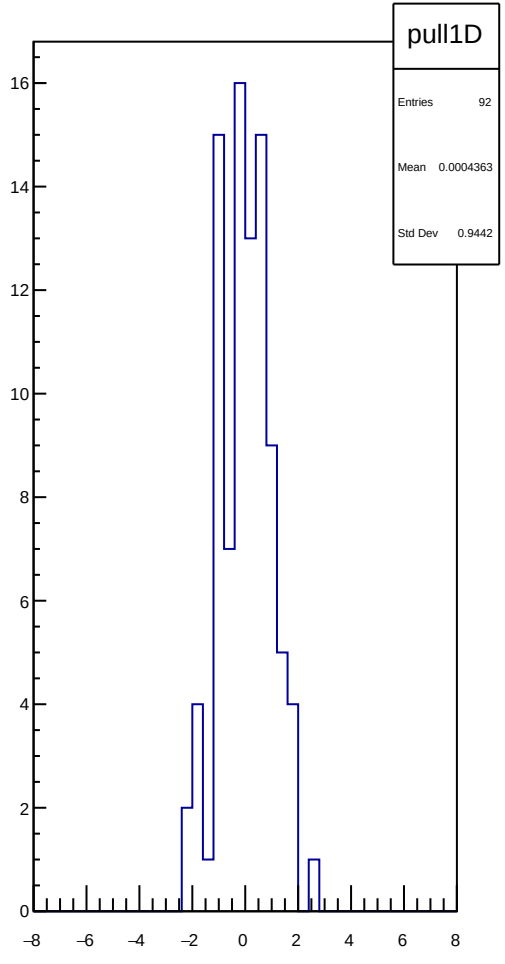

cor_asym_atr_dd_rms vs run
χ^2 / ndf 281.8 / 91
p0 1853 ± 1.395
2000
1950
1900
1850
1800


asym_atr_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 104.9 / 91
p0 2057 ± 4005
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −6251
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 92
Mean −0.0008806
Std Dev 1.068
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 3166 / 91
p0 3759 ± 2.832
4400
4200
4000
3800
3600
3400


eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 82.02 / 91
p0 274.5 ± 1973
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 6721
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean 0.0004363
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
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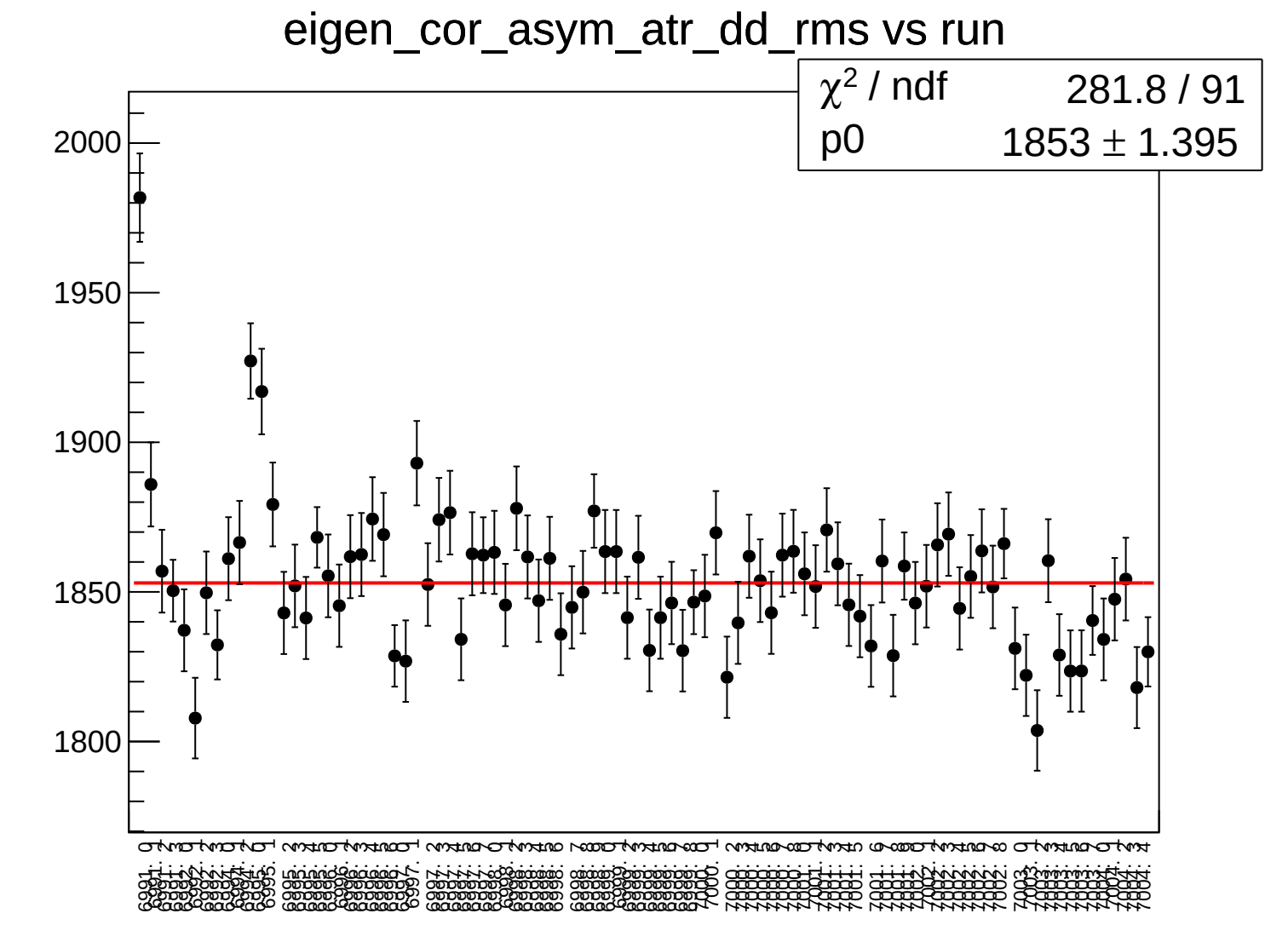
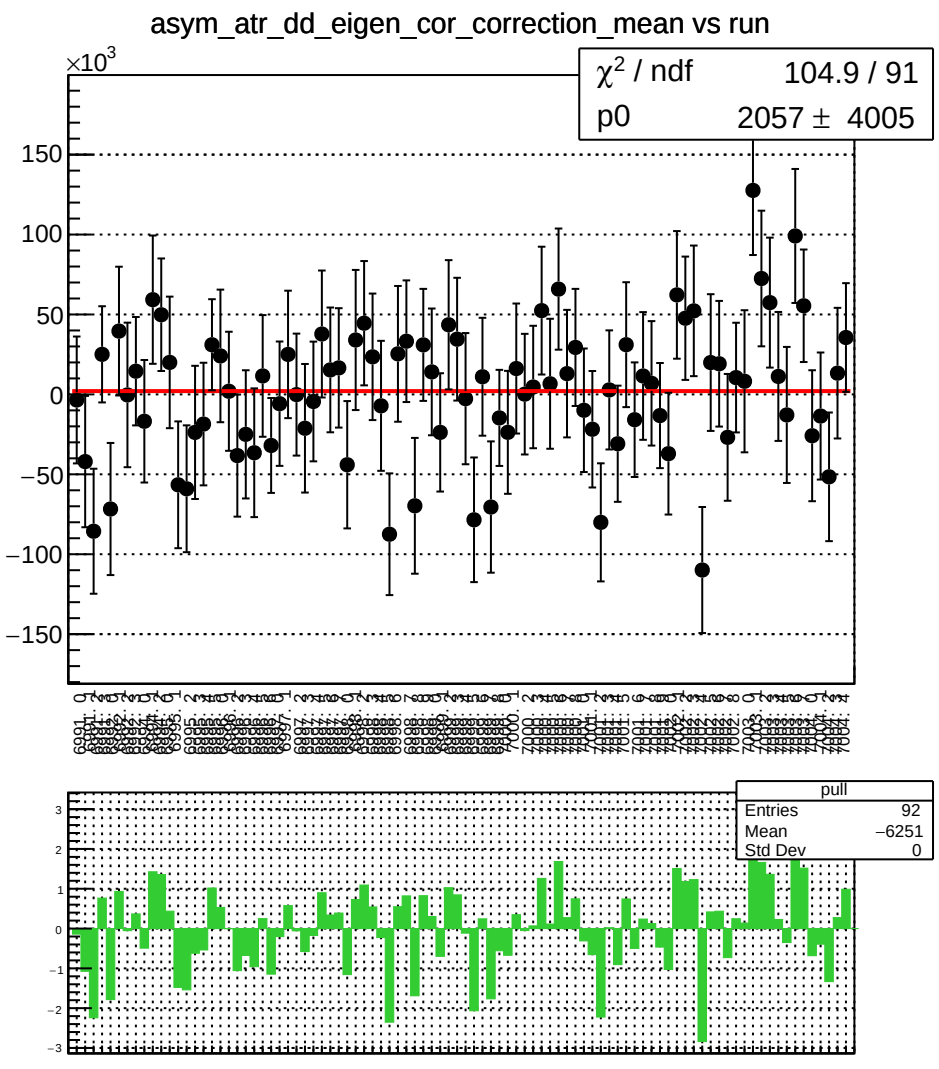
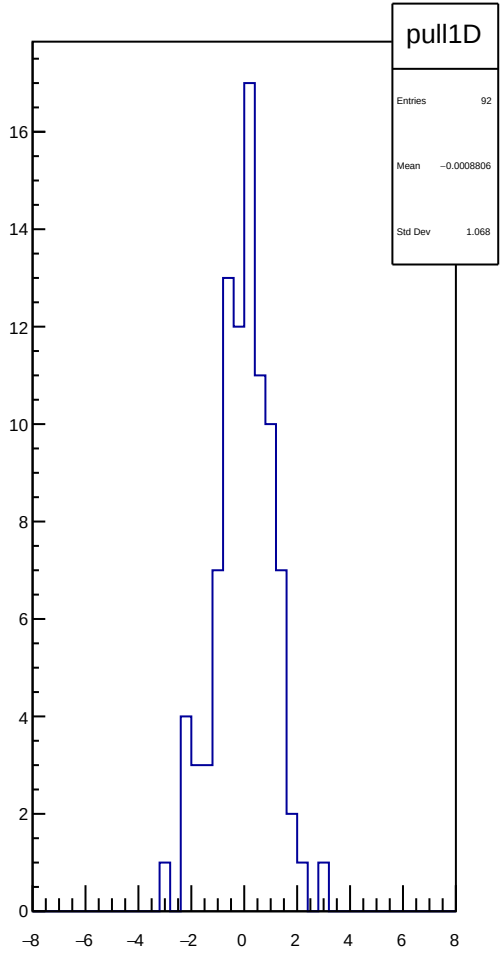
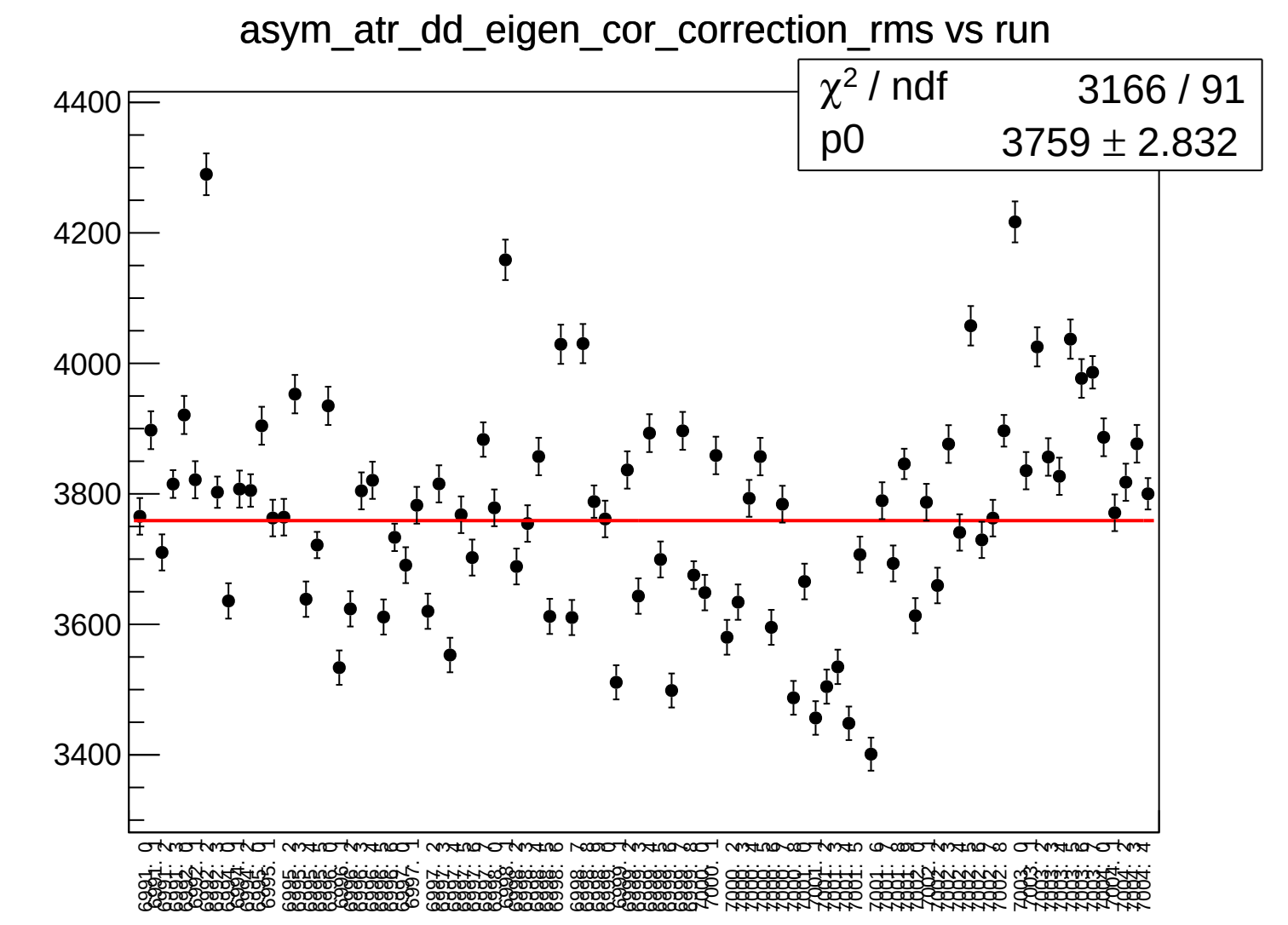
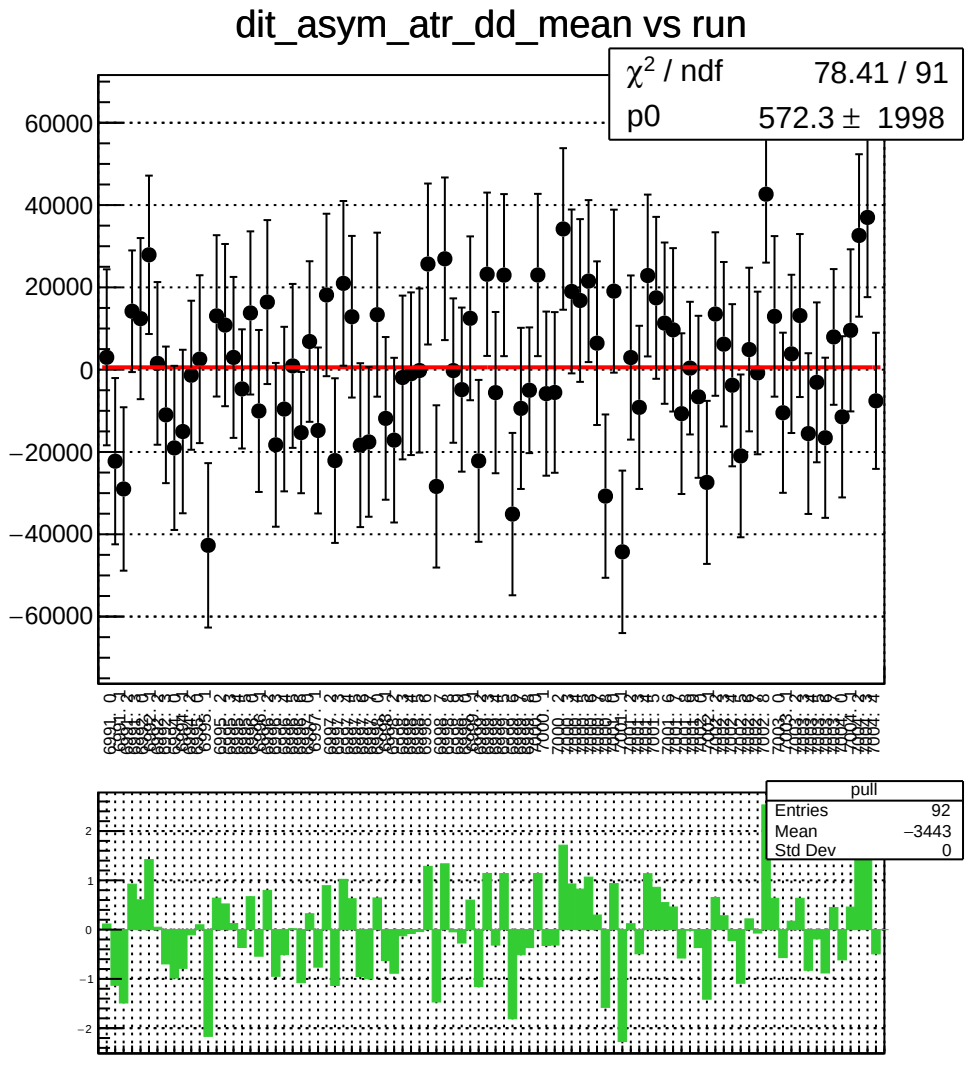
2
4
6
8

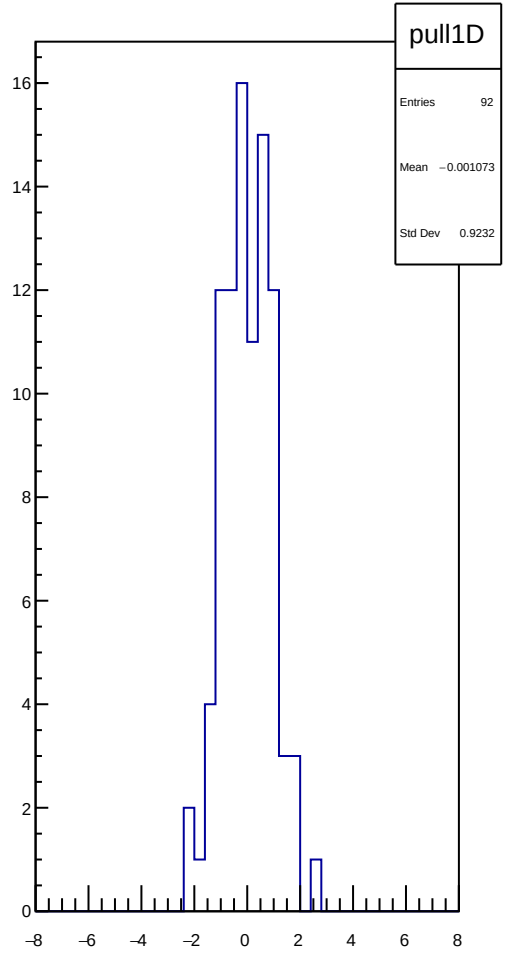

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 281.8 / 91
p0 1853 ± 1.395
2000
1950
1900
1850
1800


asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 104.9 / 91
p0 2057 ± 4005
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −6251
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 92
Mean −0.0008806
Std Dev 1.068
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 3166 / 91
p0 3759 ± 2.832
4400
4200
4000
3800
3600
3400


dit_asym_atr_dd_mean vs run
χ² / ndf 78.41 / 91
p0 572.3 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −3443
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean −0.001073
Std Dev 0.9232
16
14
12
10
8
6
4
2
0
−8
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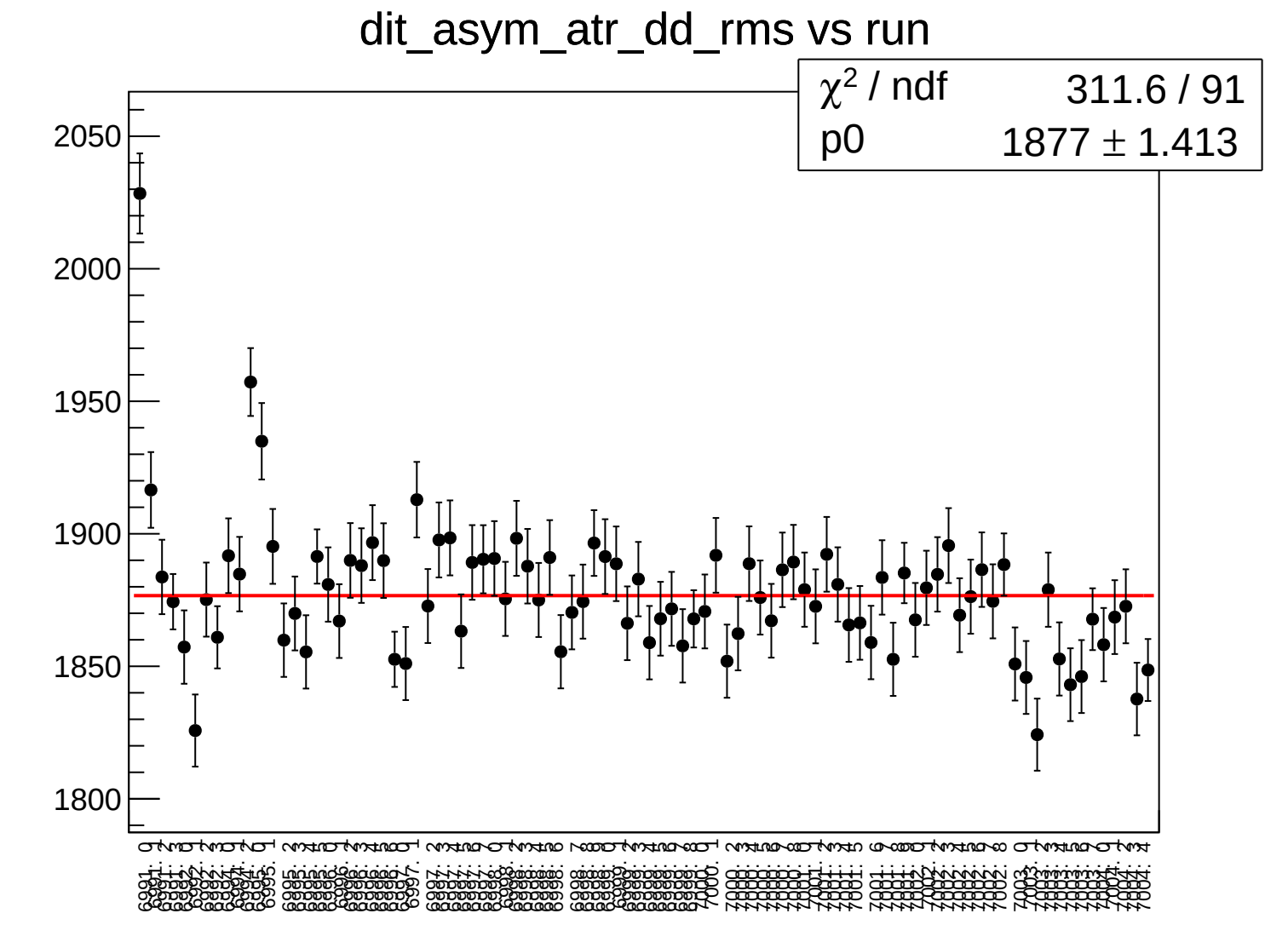
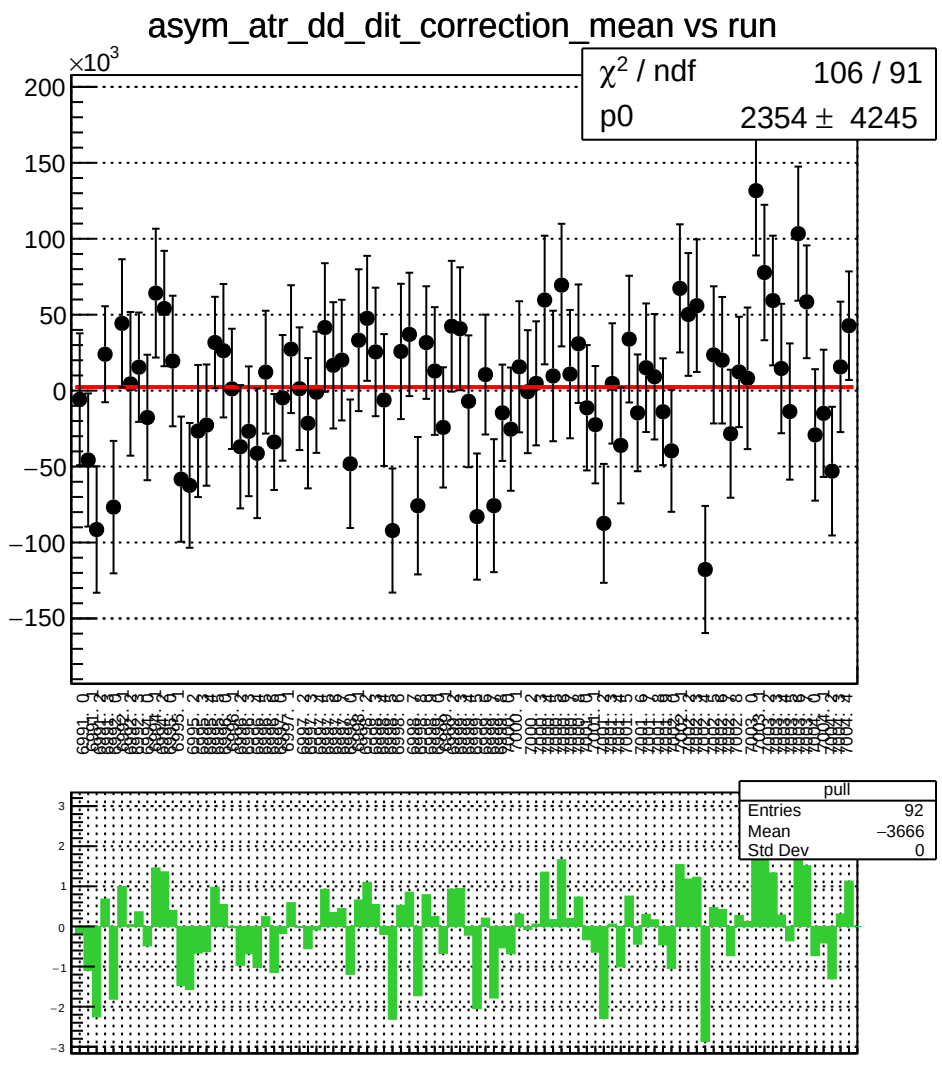
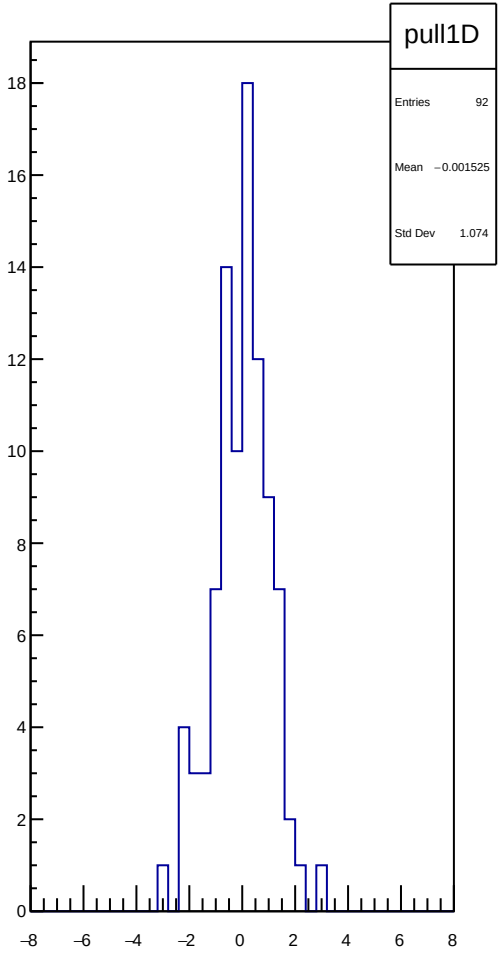
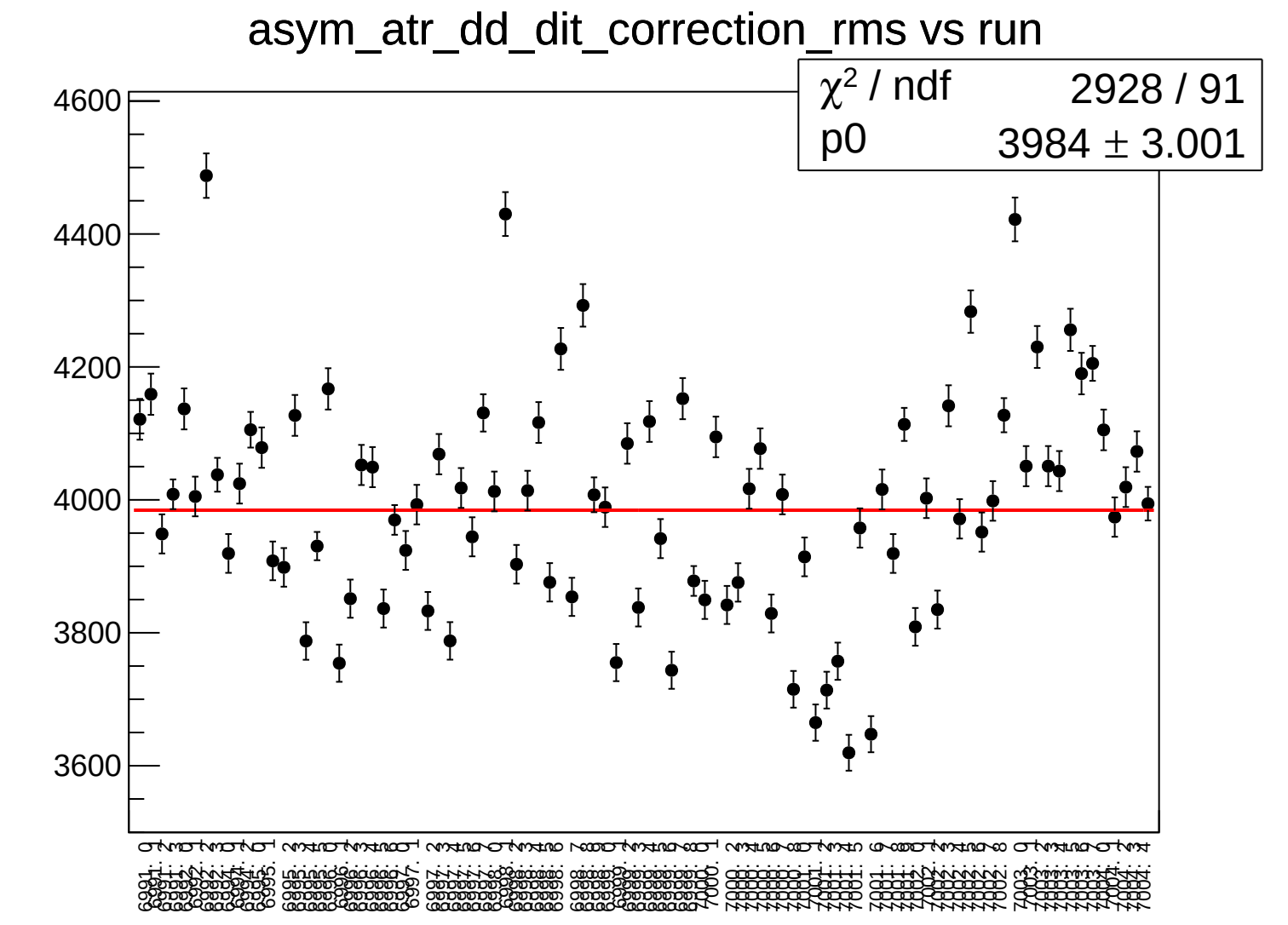
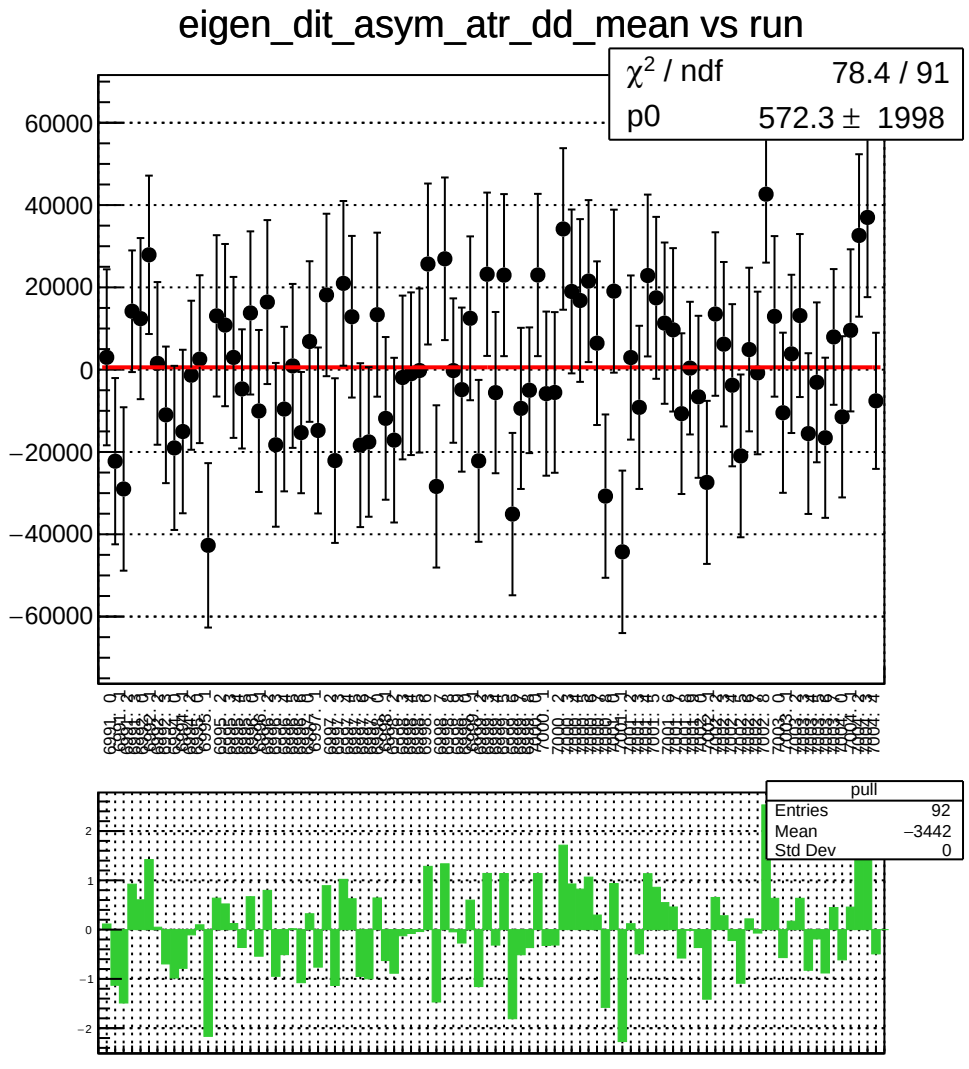
−4
−2
0
2
4
6
8

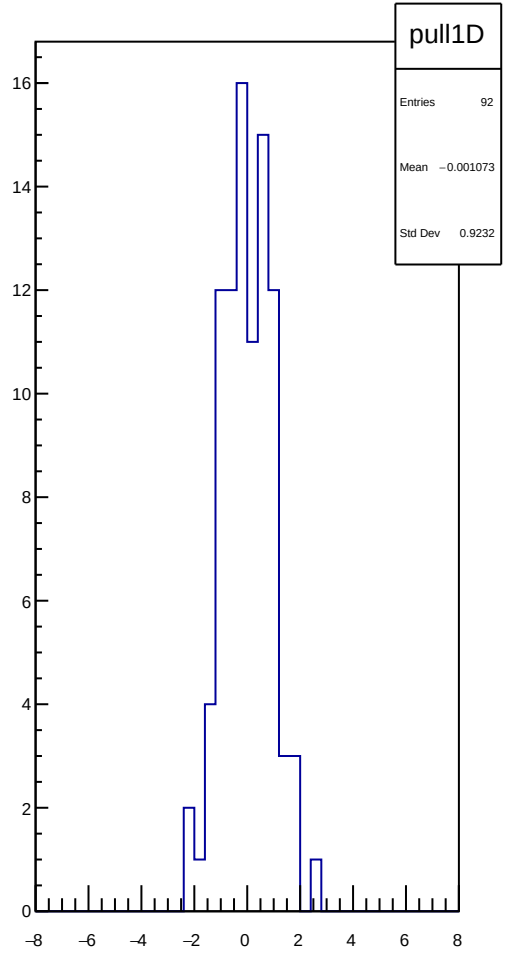

dit_asym_atr_dd_rms vs run
χ^2 / ndf 311.6 / 91
p0 1877 ± 1.413
2050
2000
1950
1900
1850
1800

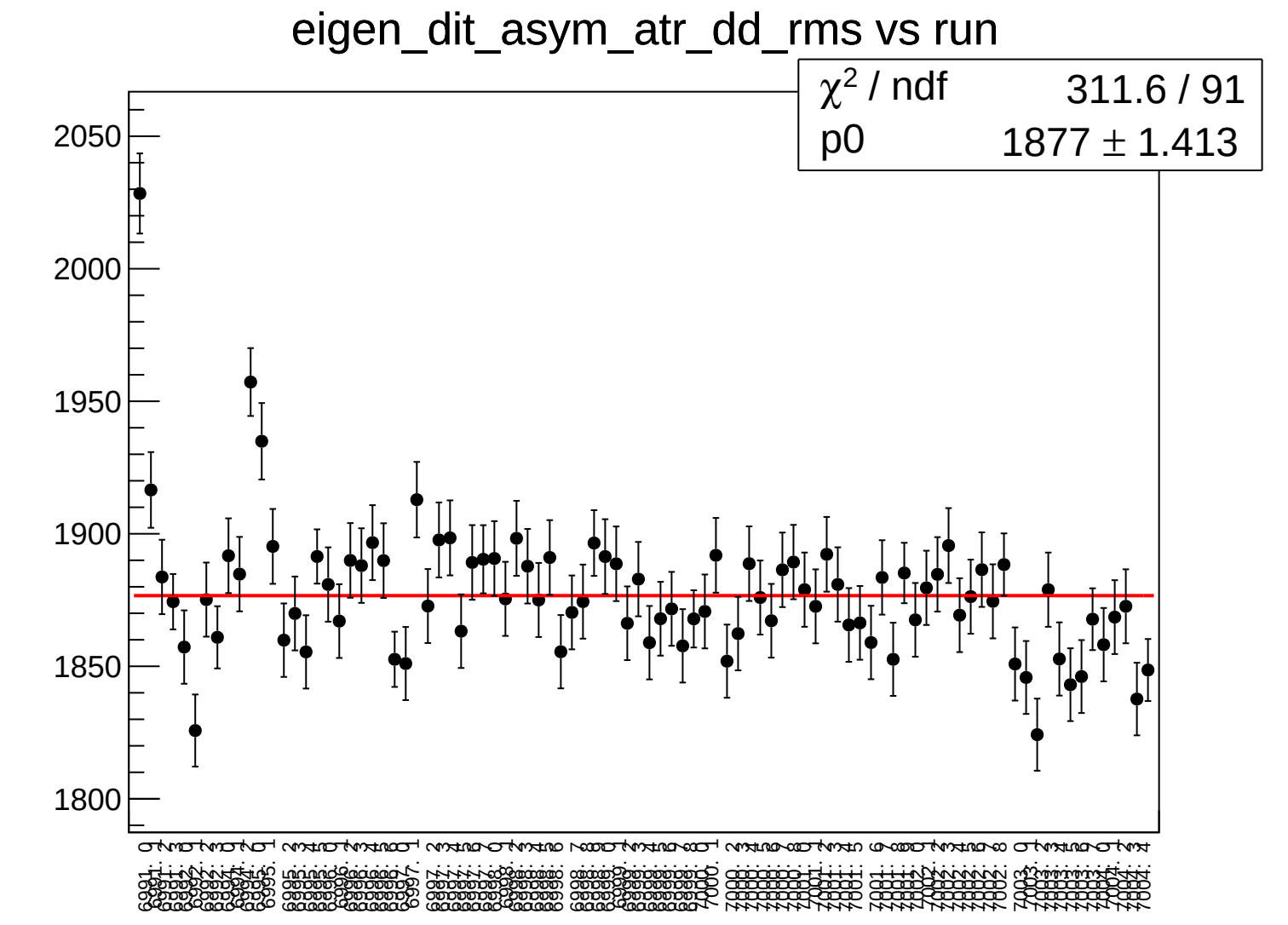

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 106 / 91
p0 2354 ± 4245
pull
Entries 92
Mean −3666
Std Dev 0

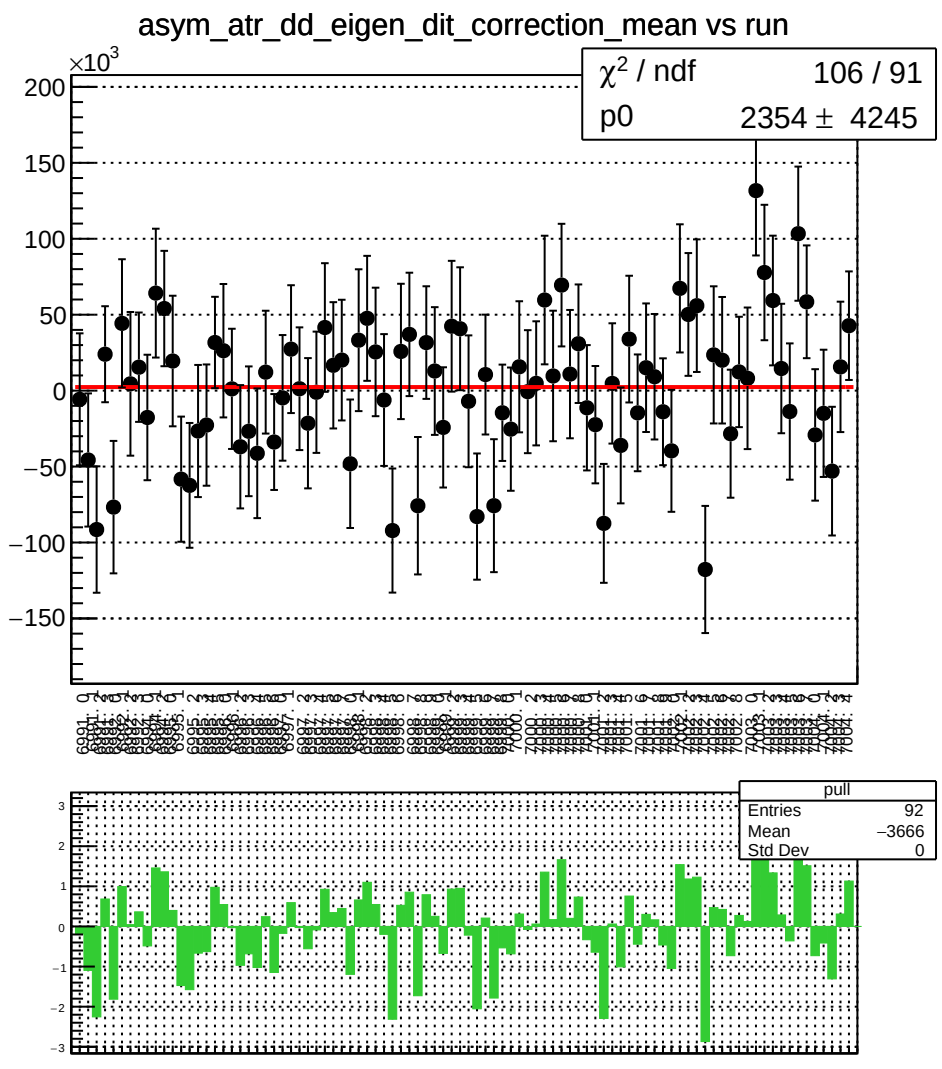

pull1D
Entries 92
Mean −0.001525
Std Dev 1.074

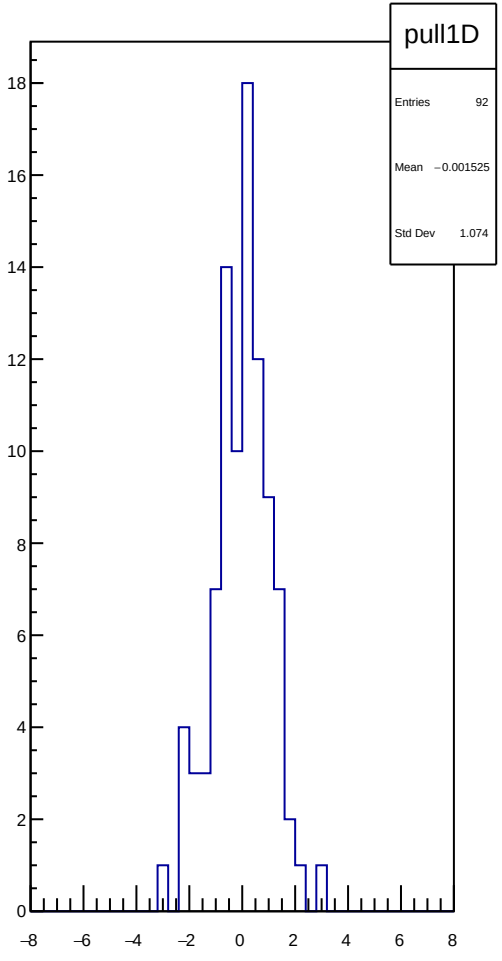

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 2928 / 91
p0 3984 ± 3.001
4600
4400
4200
4000
3800
3600

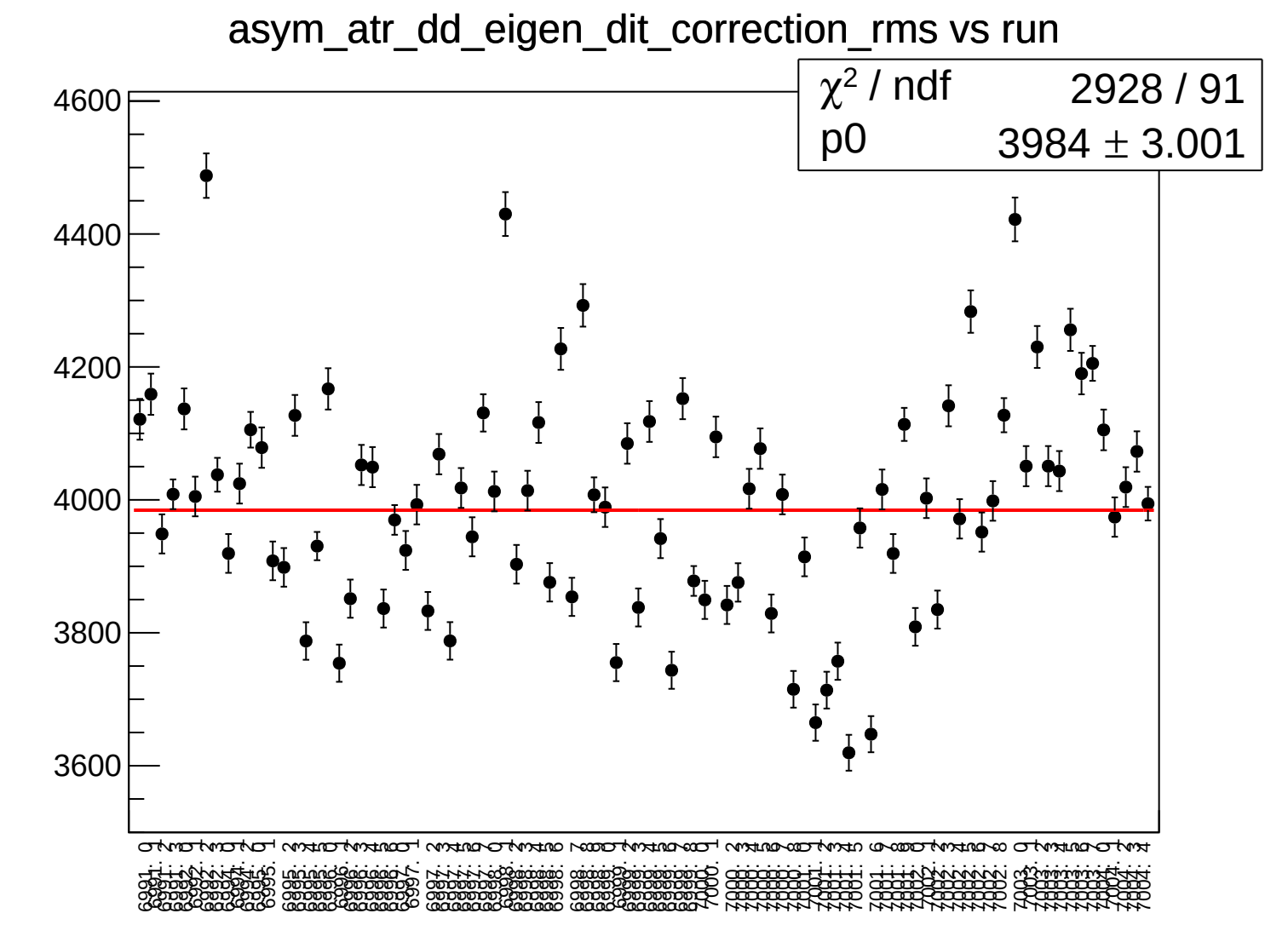

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 78.4 / 91
p0 572.3 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −3442
Std Dev 0
2
1
0
−1
−2

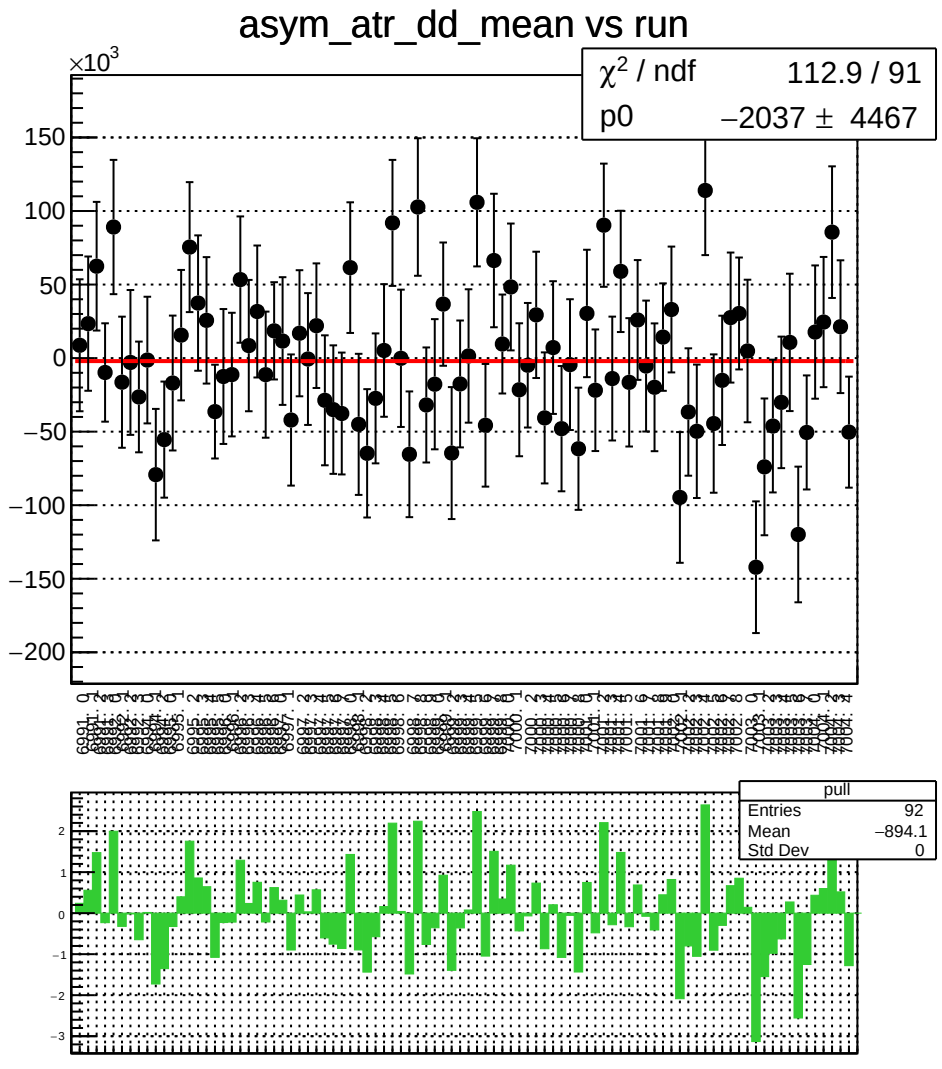

pull1D
Entries 92
Mean −0.001073
Std Dev 0.9232
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

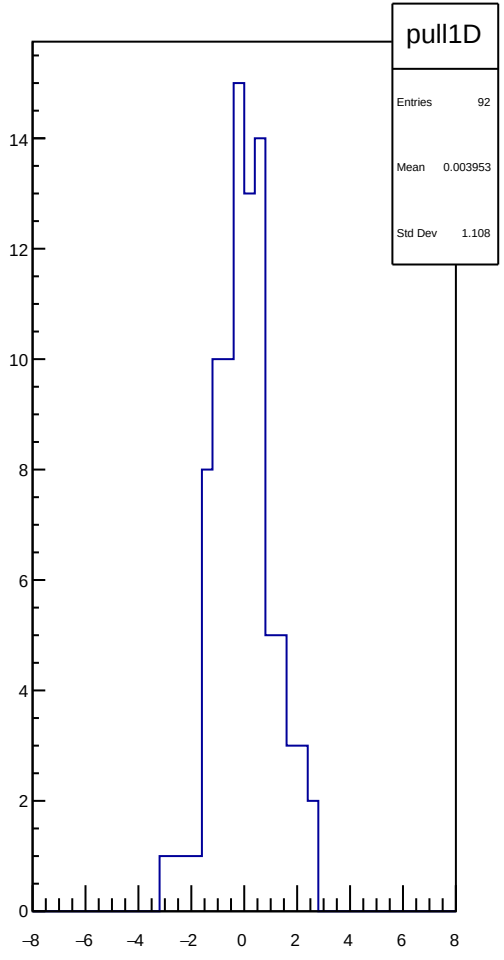

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 311.6 / 91
p0 1877 ± 1.413
2050
2000
1950
1900
1850
1800

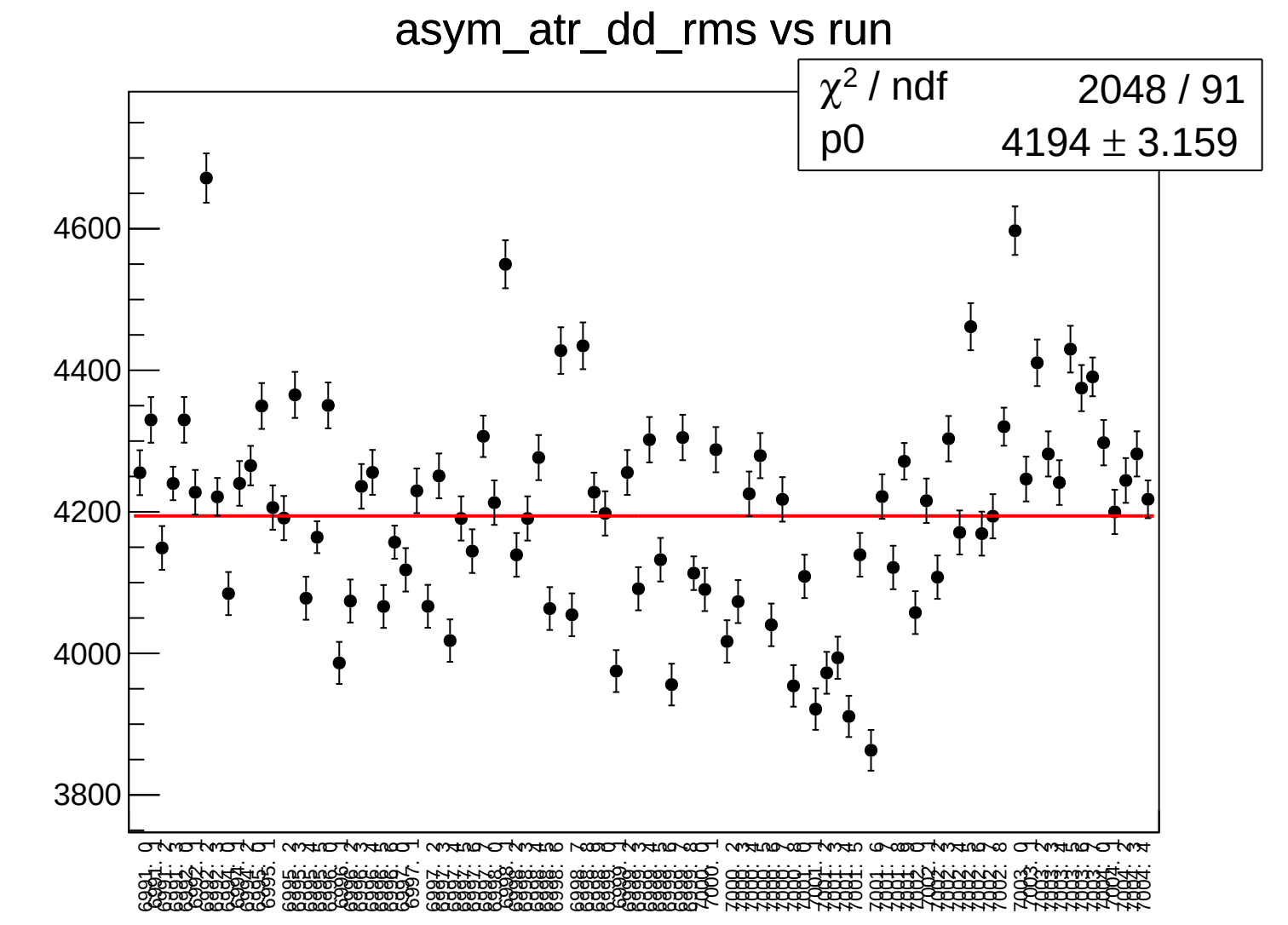

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 106 / 91
p0 2354 ± 4245
pull
Entries 92
Mean −3666
Std Dev 0

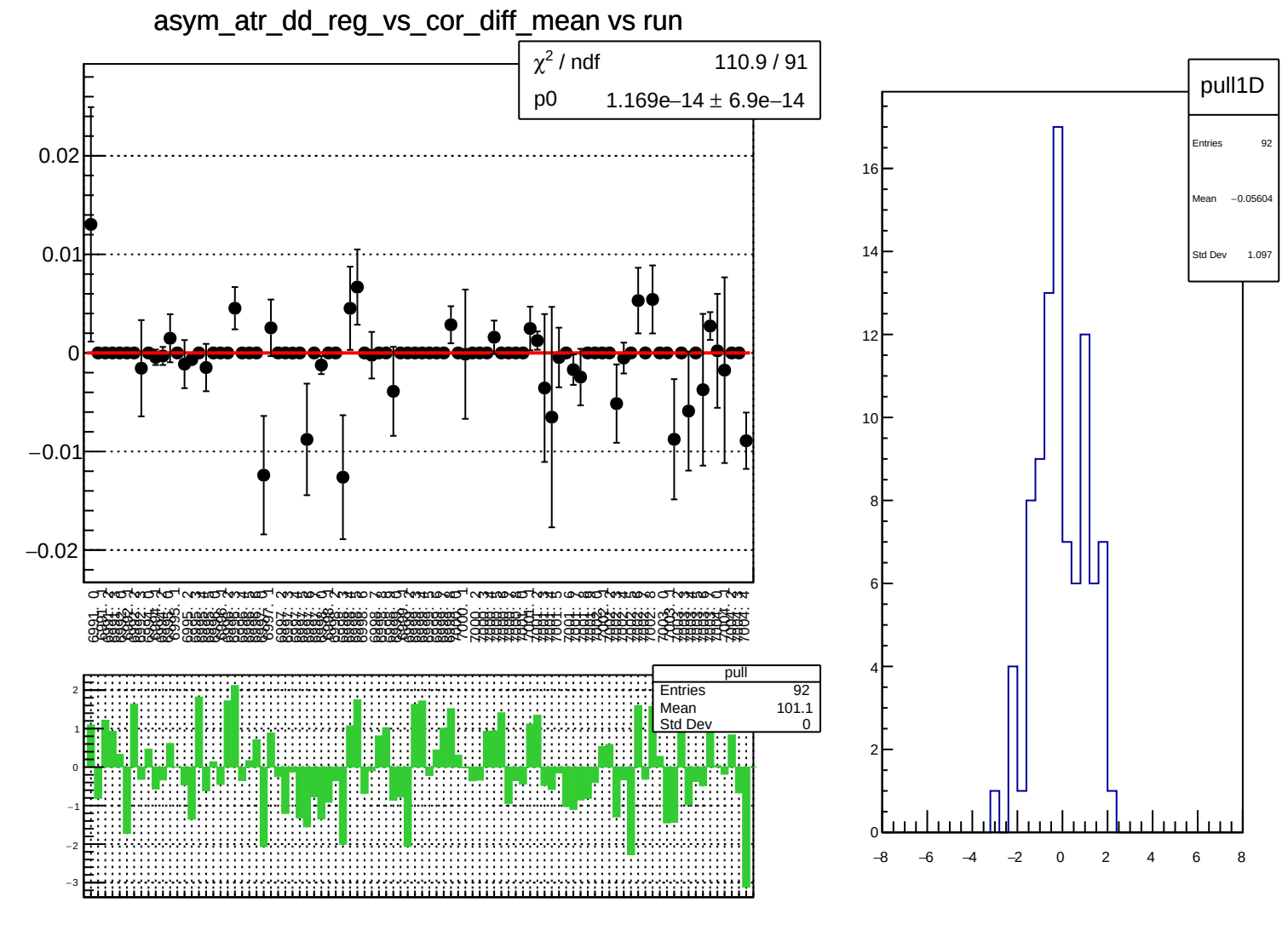

pull1D
Entries 92
Mean −0.001525
Std Dev 1.074

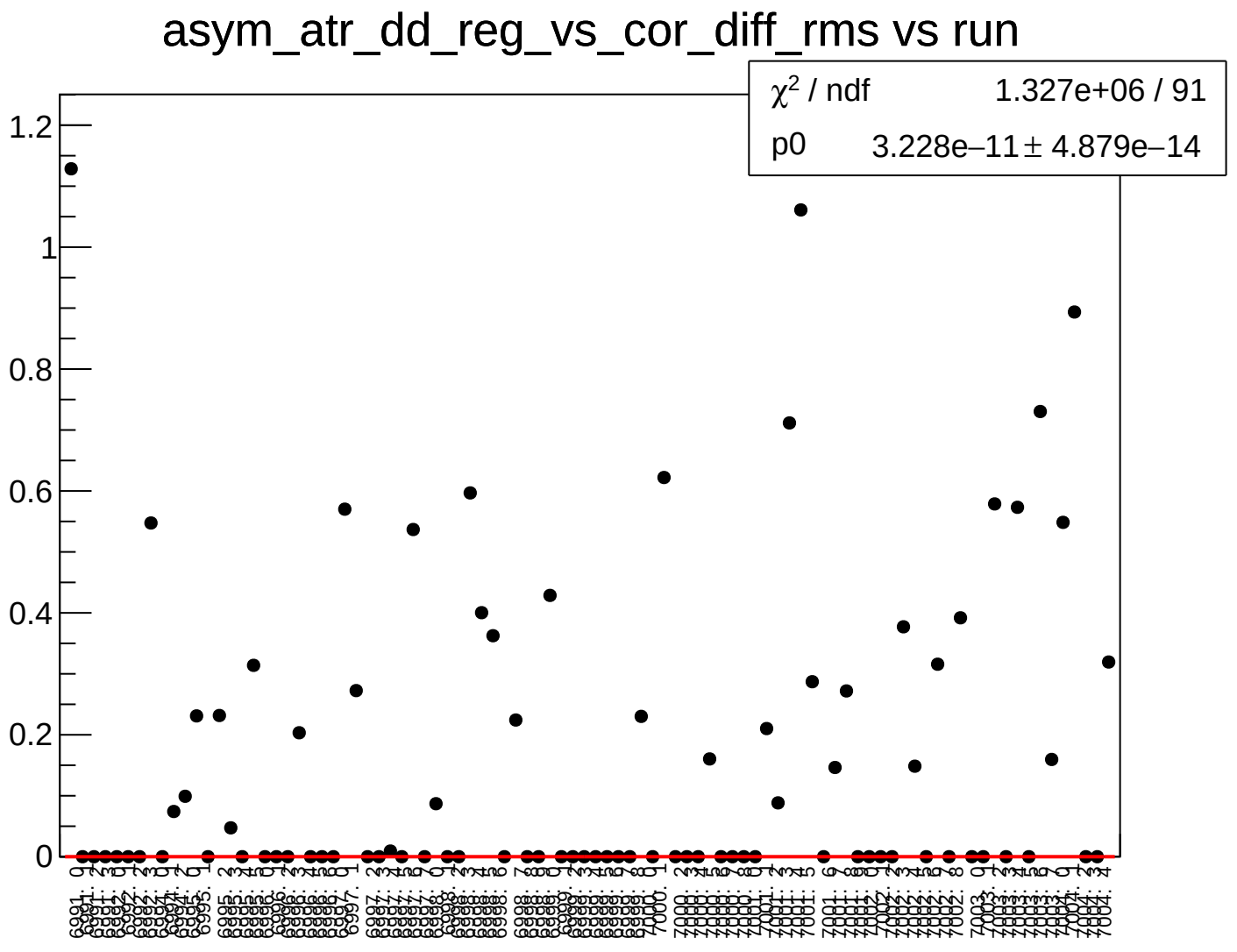

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 2928 / 91
p0 3984 ± 3.001
4600
4400
4200
4000
3800
3600

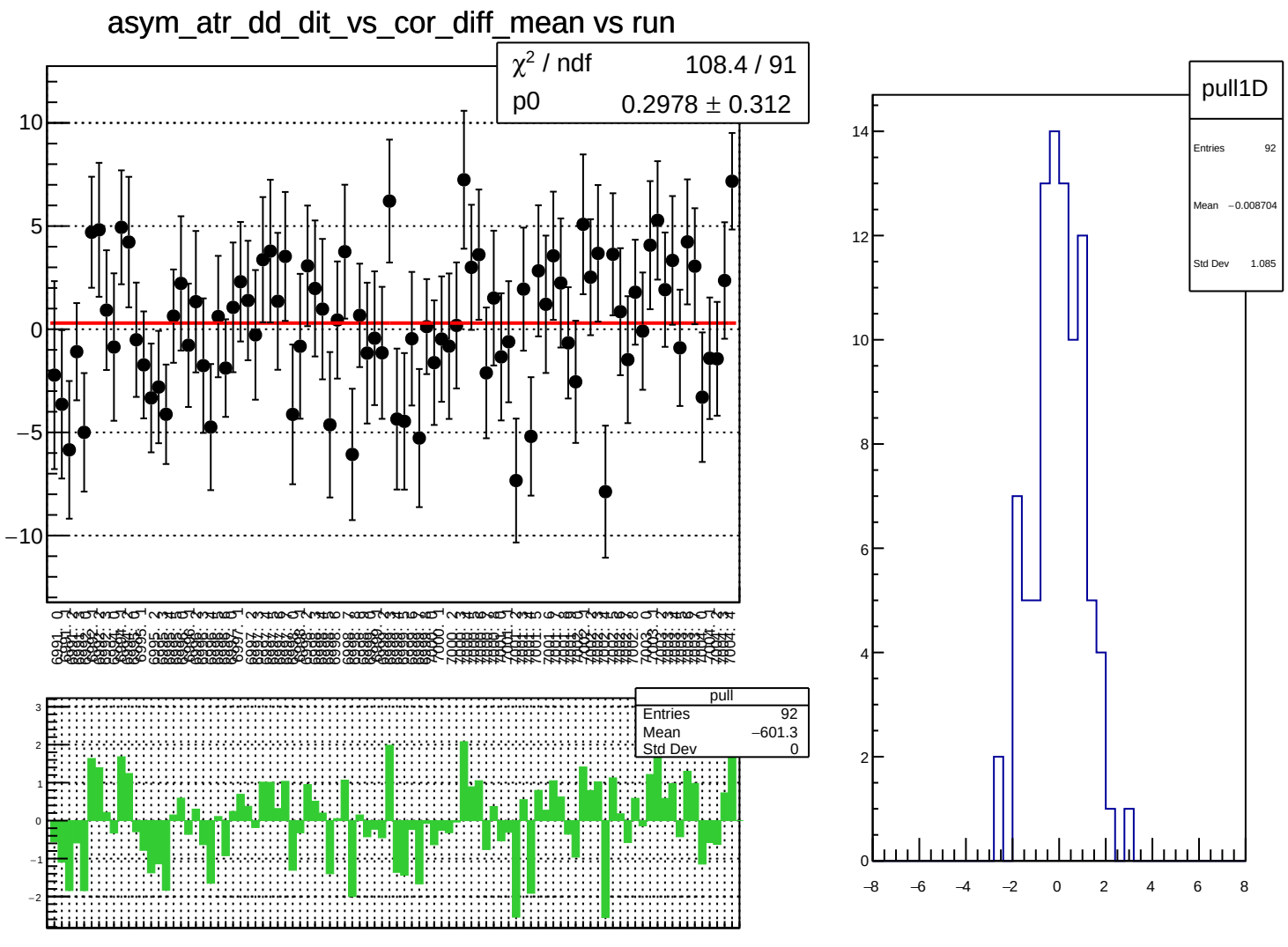

asym_atr_dd_mean vs run
×10^3
χ² / ndf 112.9 / 91
p0 −2037 ± 4467
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −894.1
Std Dev 0
2
1
0
−1
−2
−3

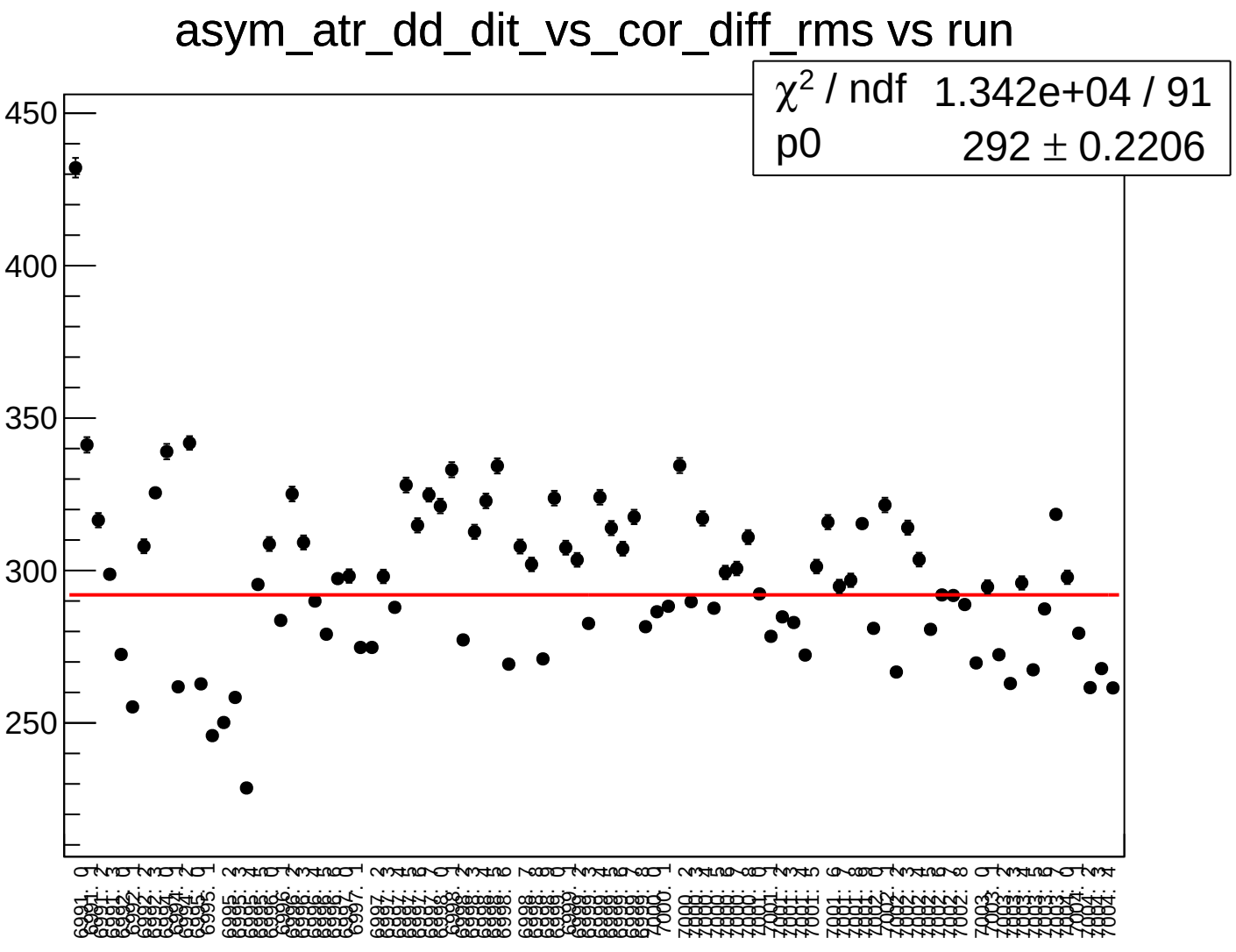

pull1D
Entries 92
Mean 0.003953
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

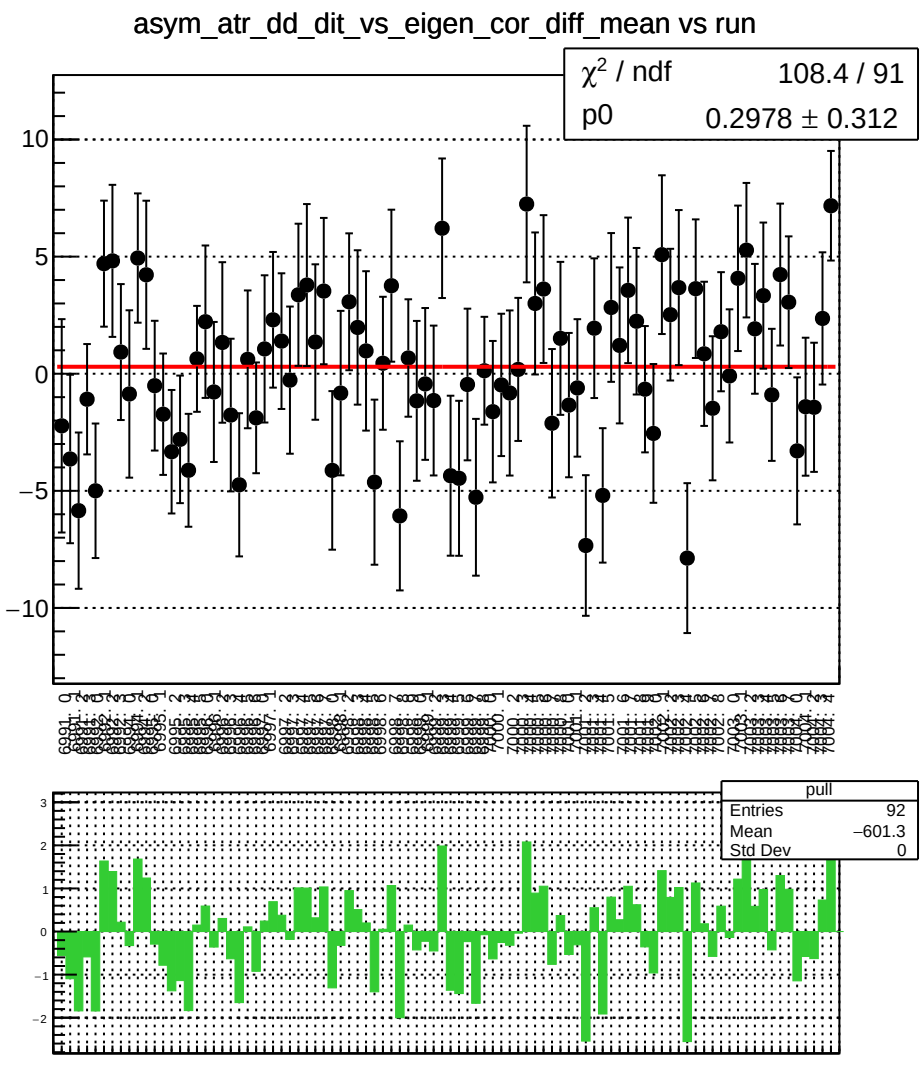

asym_atr_dd_rms vs run
χ² / ndf 2048 / 91
p0 4194 ± 3.159
4600
4400
4200
4000
3800

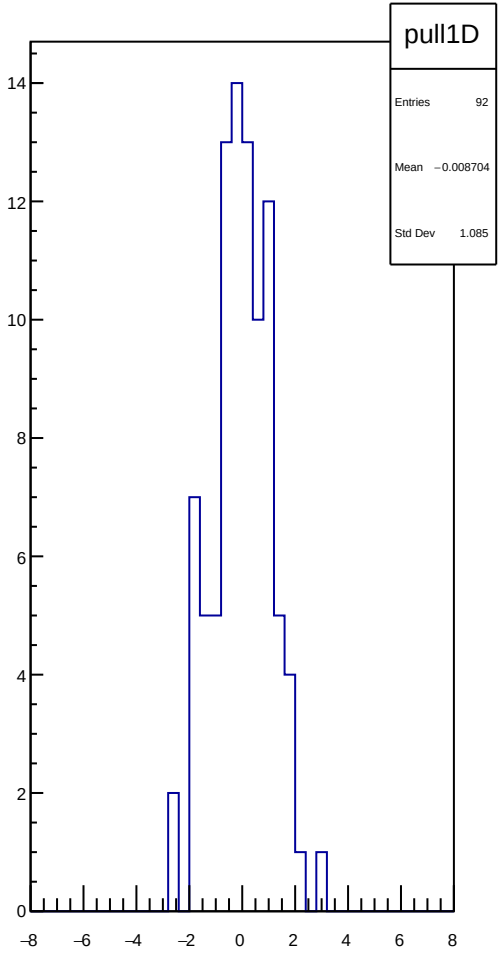

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 91
p0 1.169e−14 ± 6.9e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 101.1
Std Dev 0
pull1D
Entries 92
Mean −0.05604
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

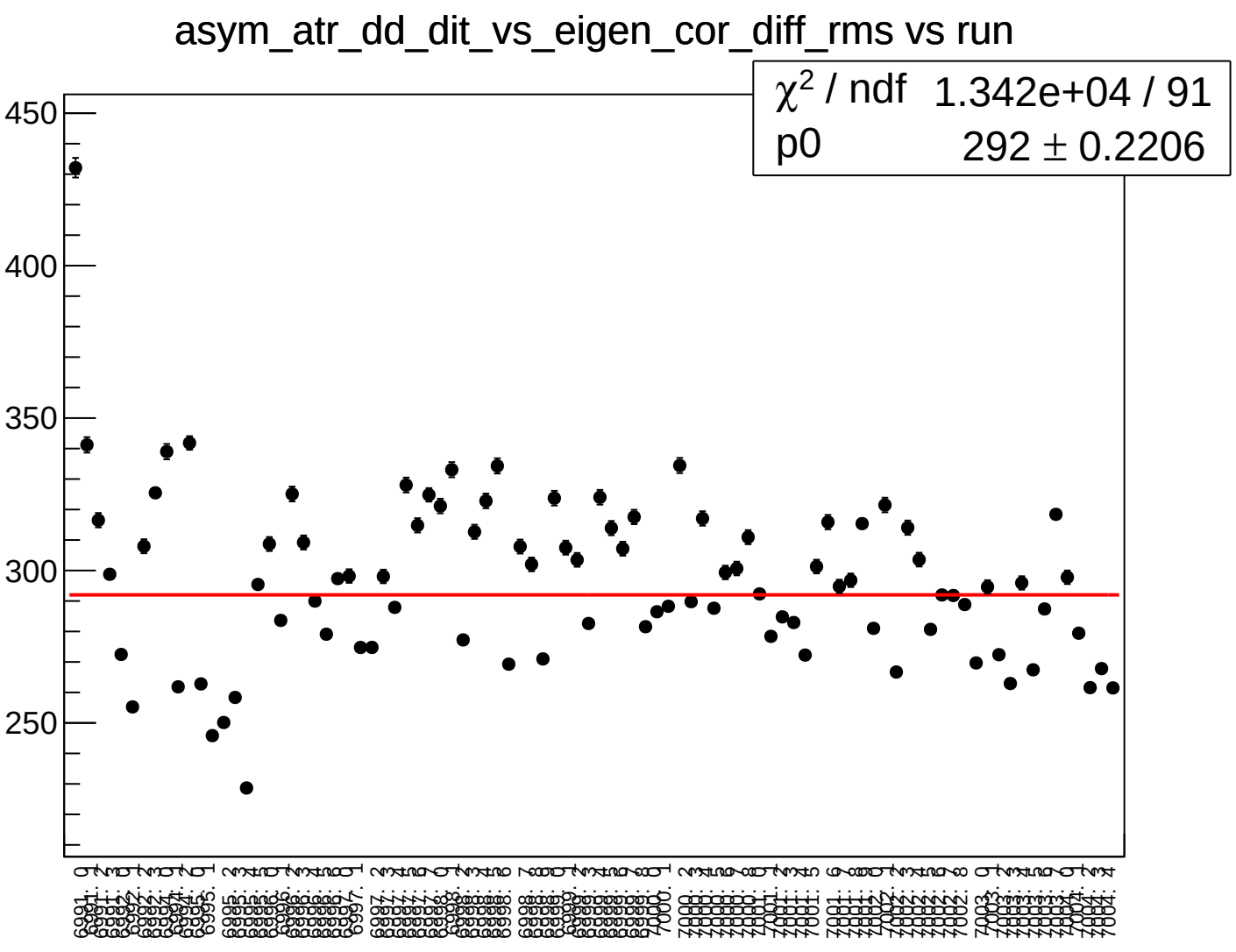

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.327e+06 / 91
p0 3.228e−11 ± 4.879e−14
1.2
1
0.8
0.6
0.4
0.2
0

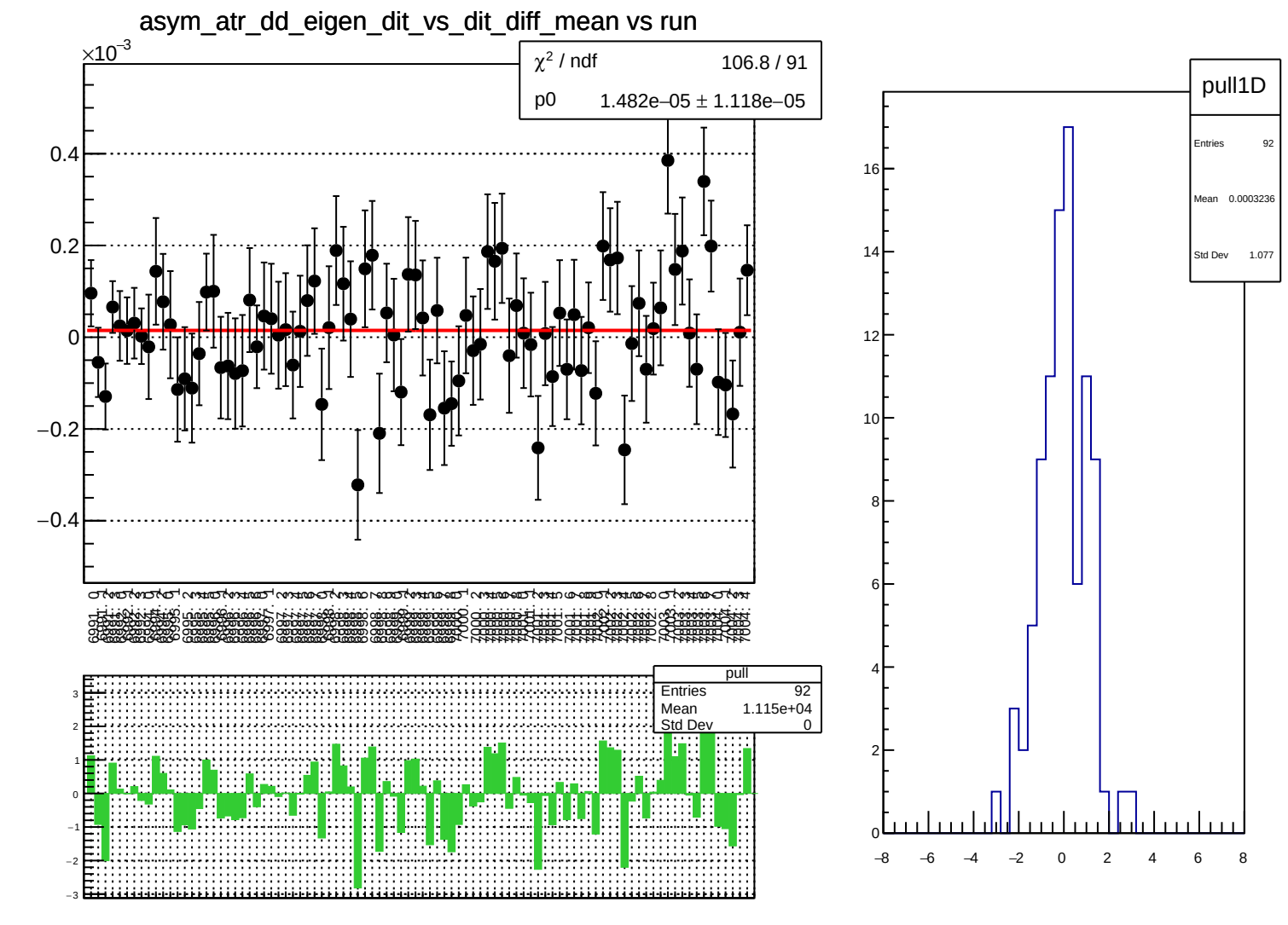

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 91
p0 0.2978 ± 0.312
10
5
0
−5
−10
pull
Entries 92
Mean −601.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.008704
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

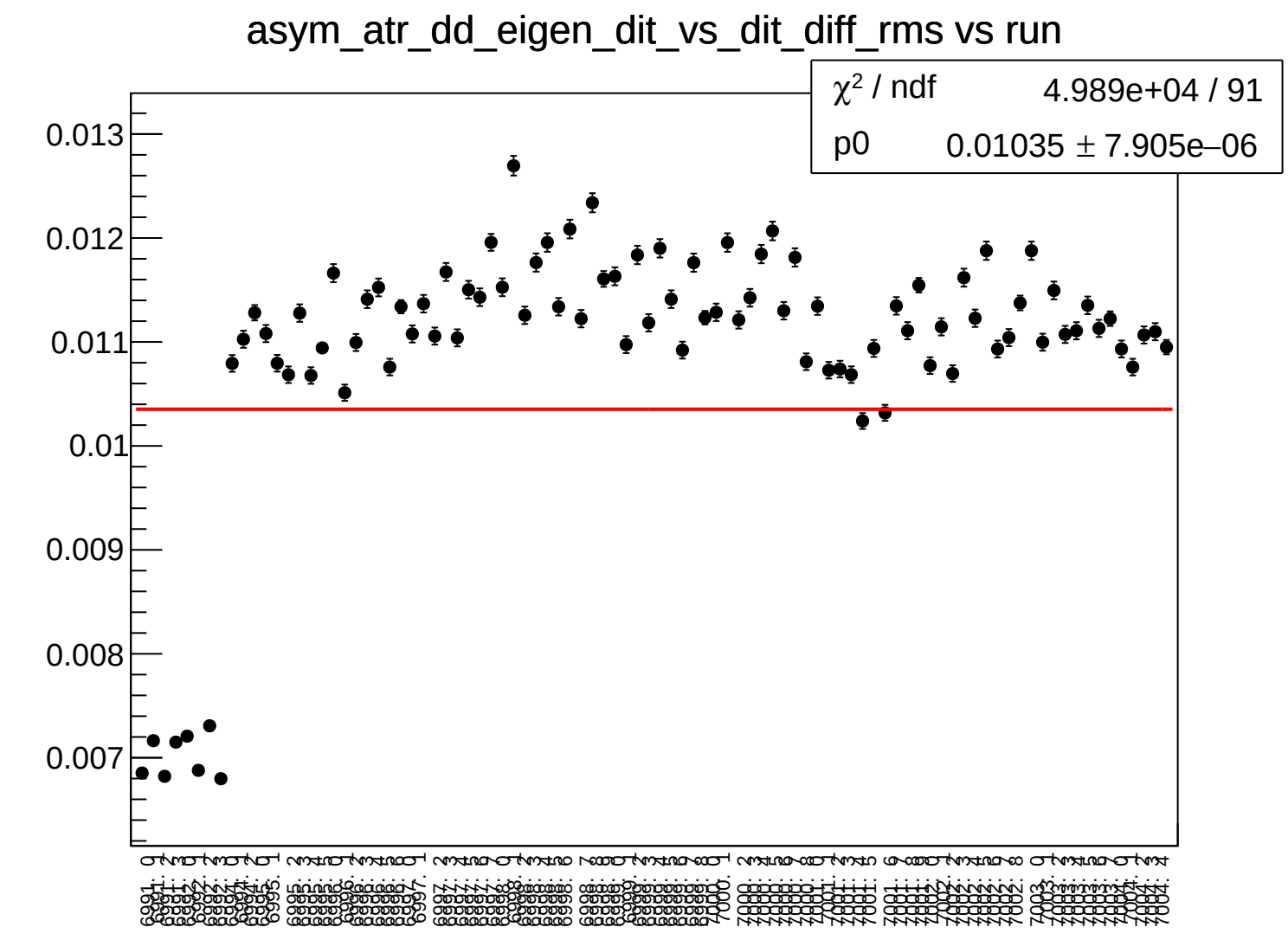

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.342e+04 / 91
p0 292 ± 0.2206
450
400
350
300
250

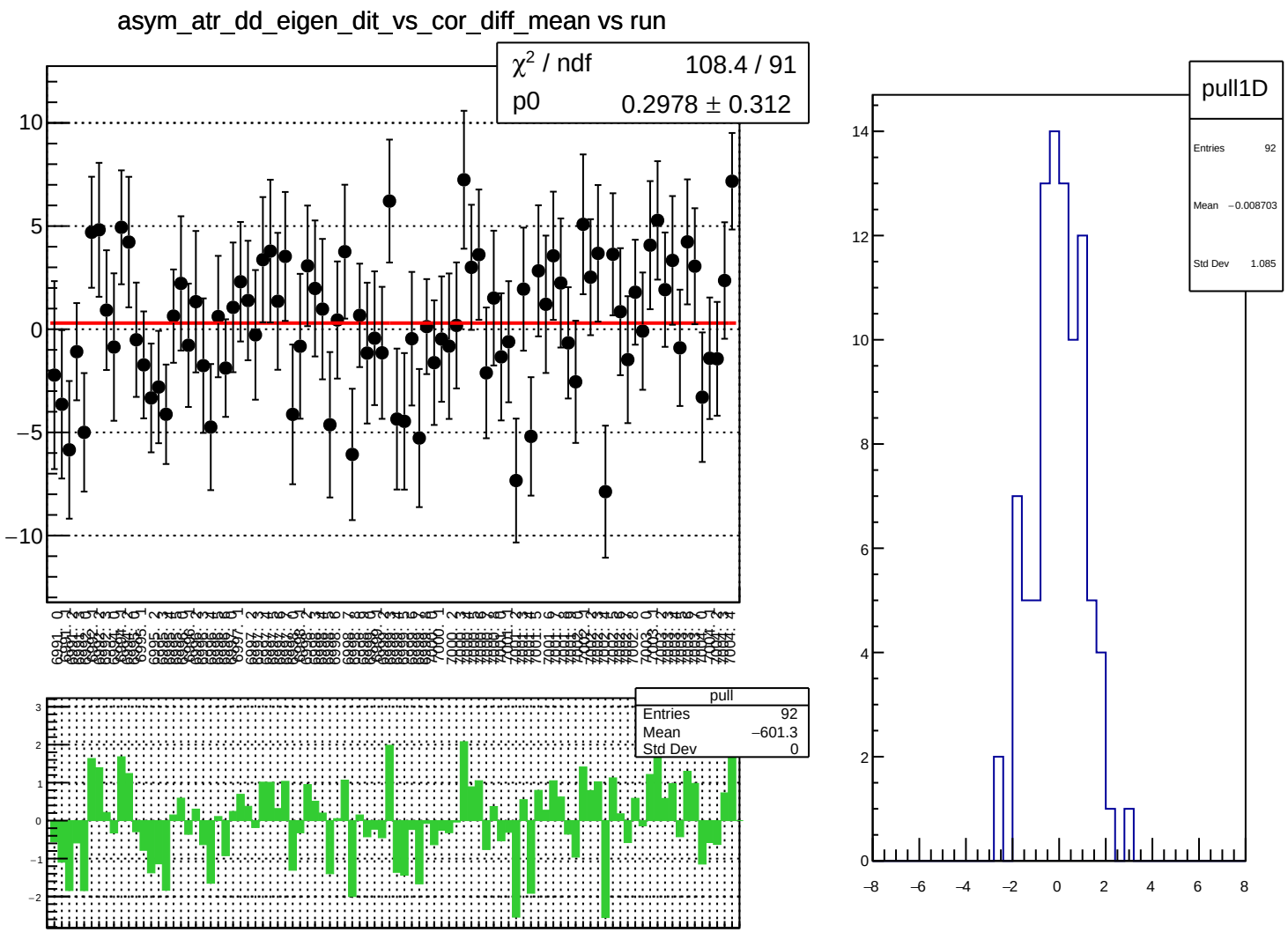

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.4 / 91
p0 0.2978 ± 0.312
pull
Entries 92
Mean −601.3
Std Dev 0

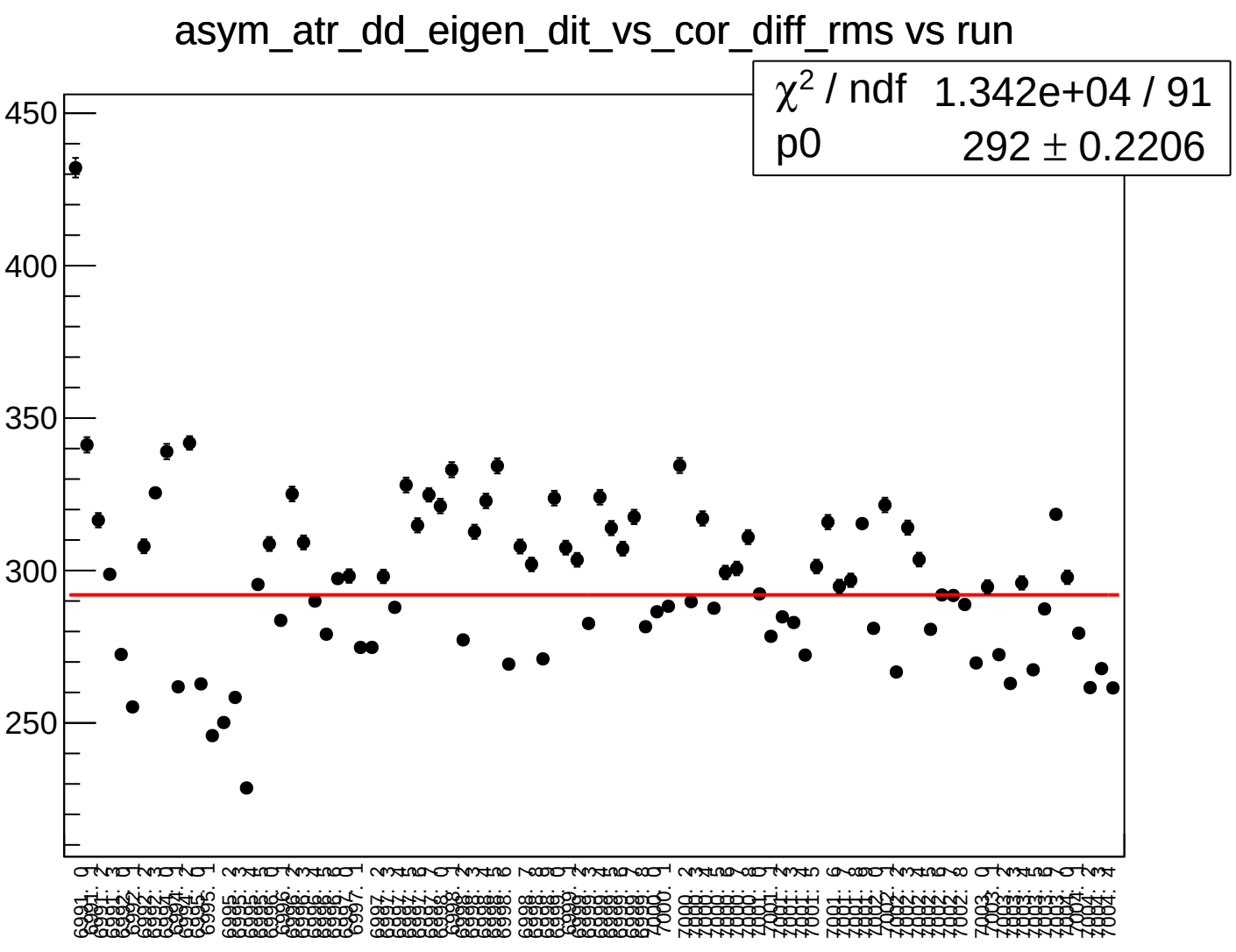

pull1D
Entries 92
Mean −0.008704
Std Dev 1.085

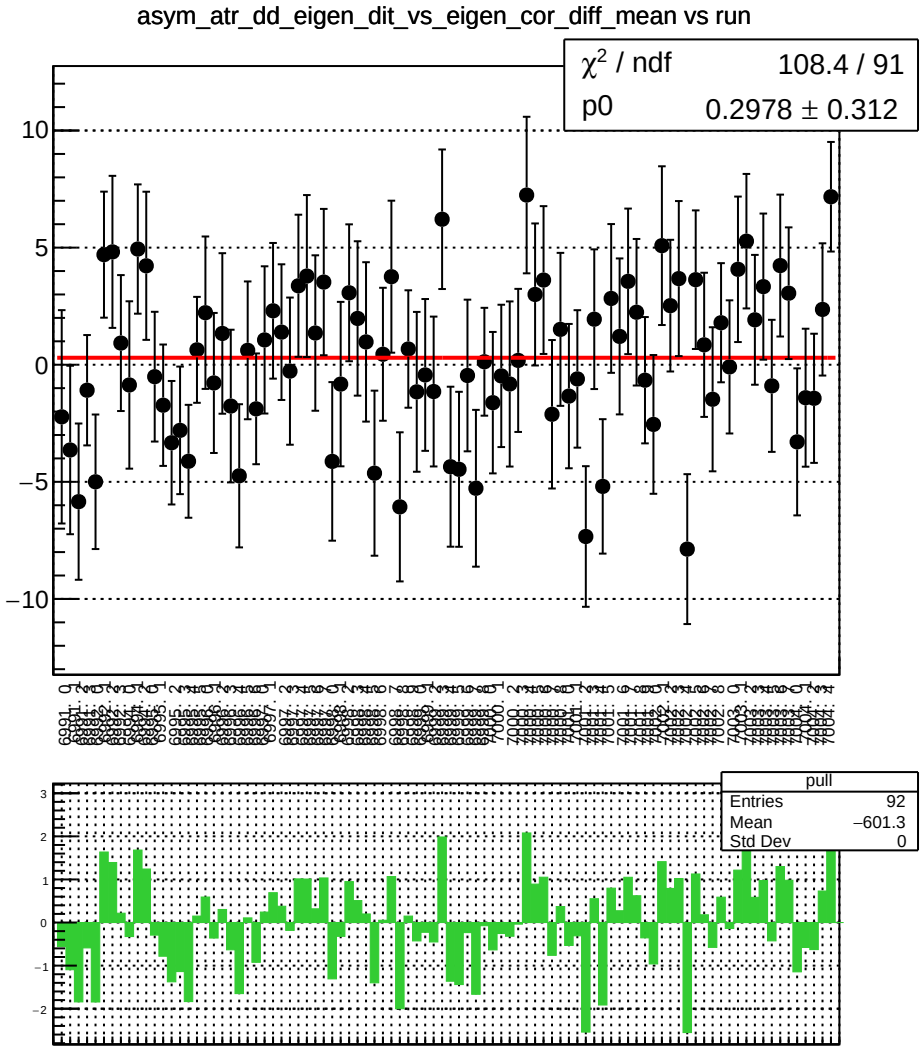

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.342e+04 / 91
p0 292 ± 0.2206
450
400
350
300
250

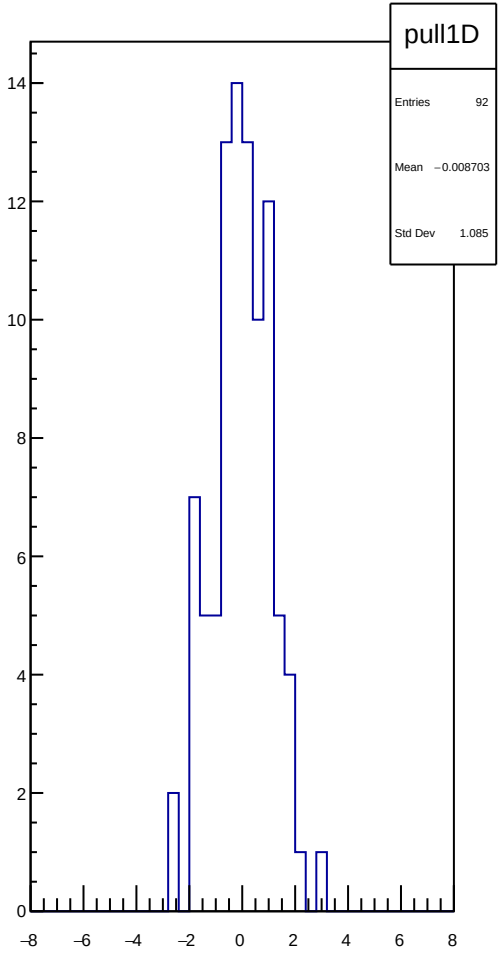

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.8 / 91
p0 1.482e−05 ± 1.118e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 1.115e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0003236
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

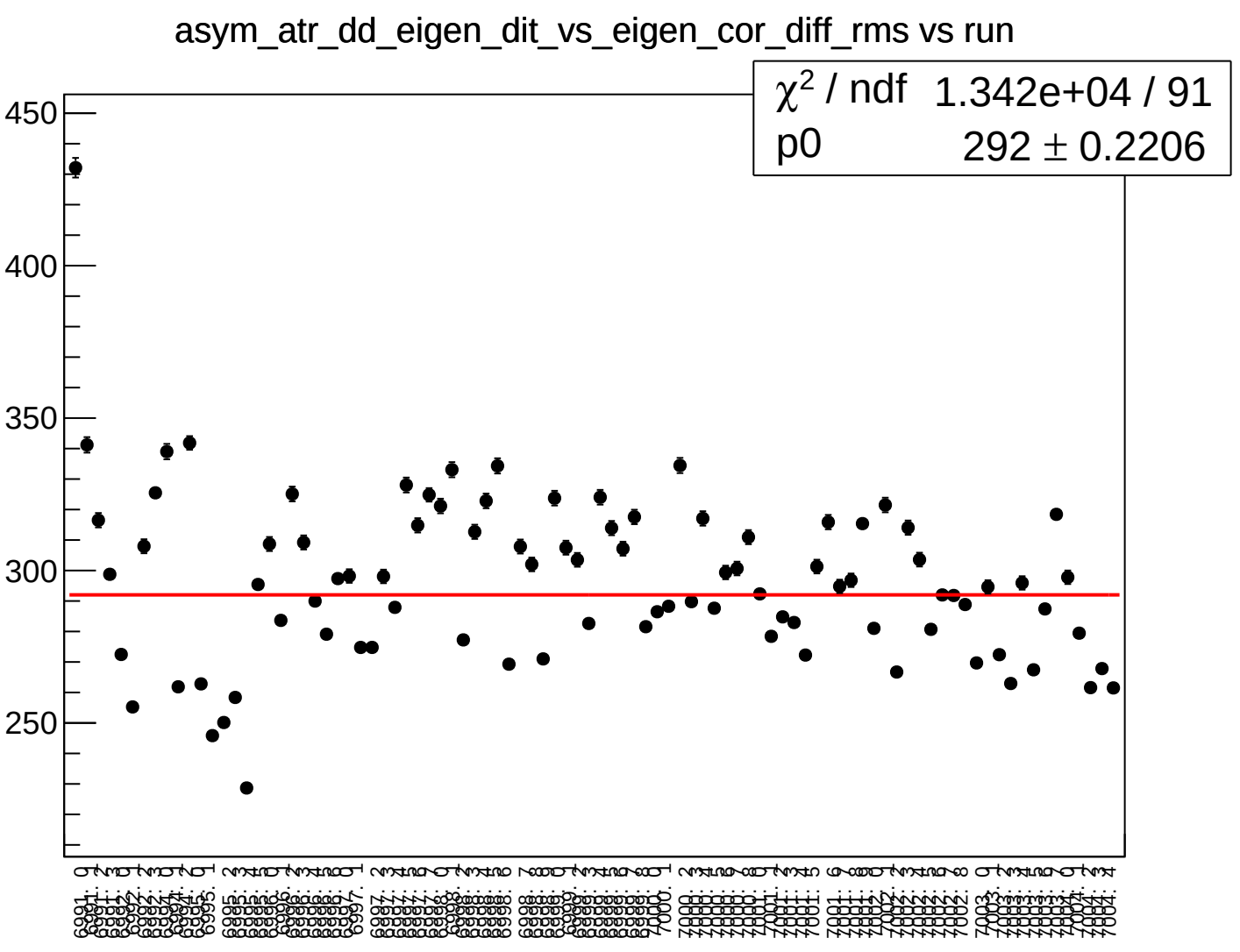

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.989e+04 / 91
p0 0.01035 ± 7.905e–06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

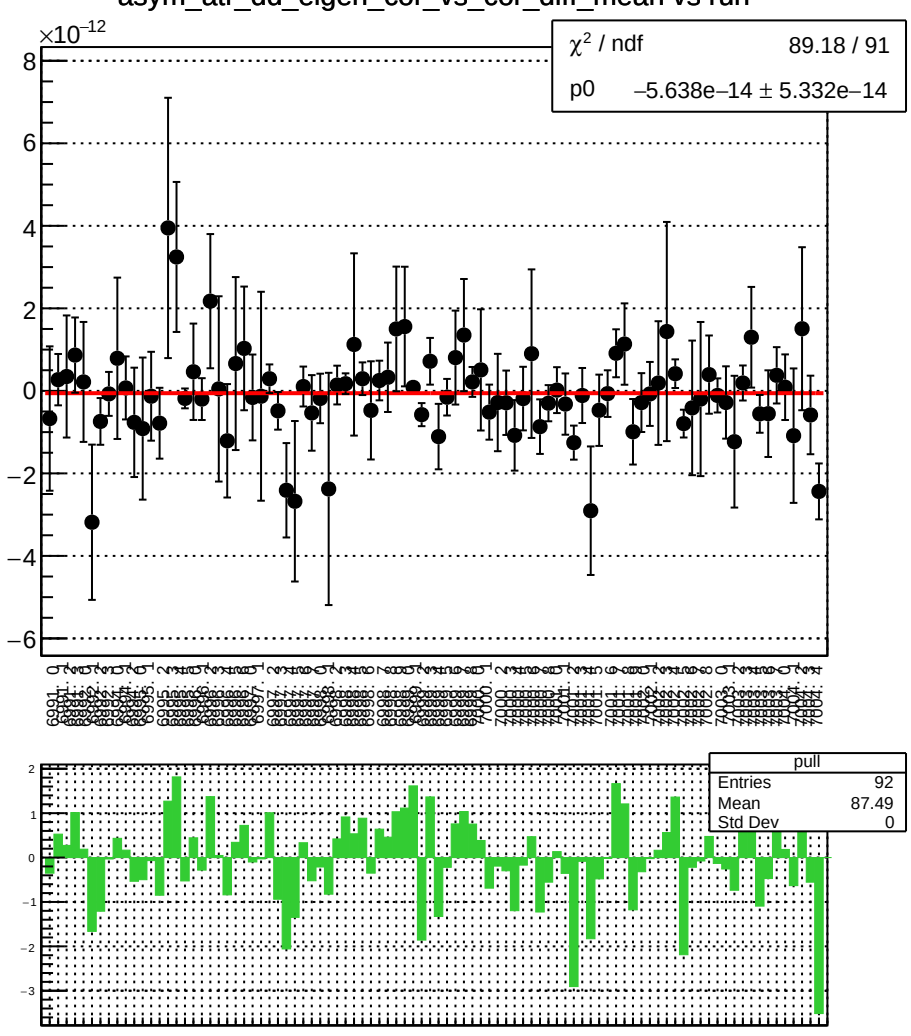

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 91
p0 0.2978 ± 0.312
pull
Entries 92
Mean −601.3
Std Dev 0
pull1D
Entries 92
Mean −0.008703
Std Dev 1.085

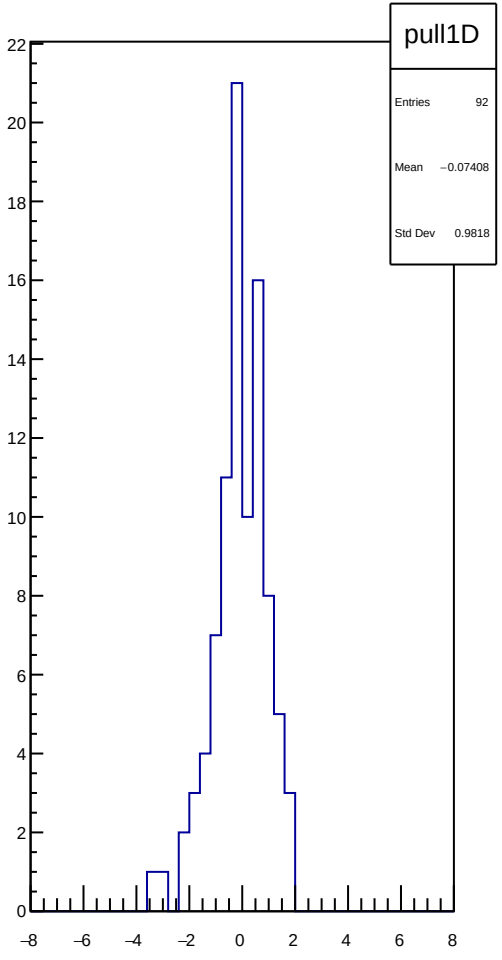

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.342e+04 / 91
p0 292 ± 0.2206
450
400
350
300
250

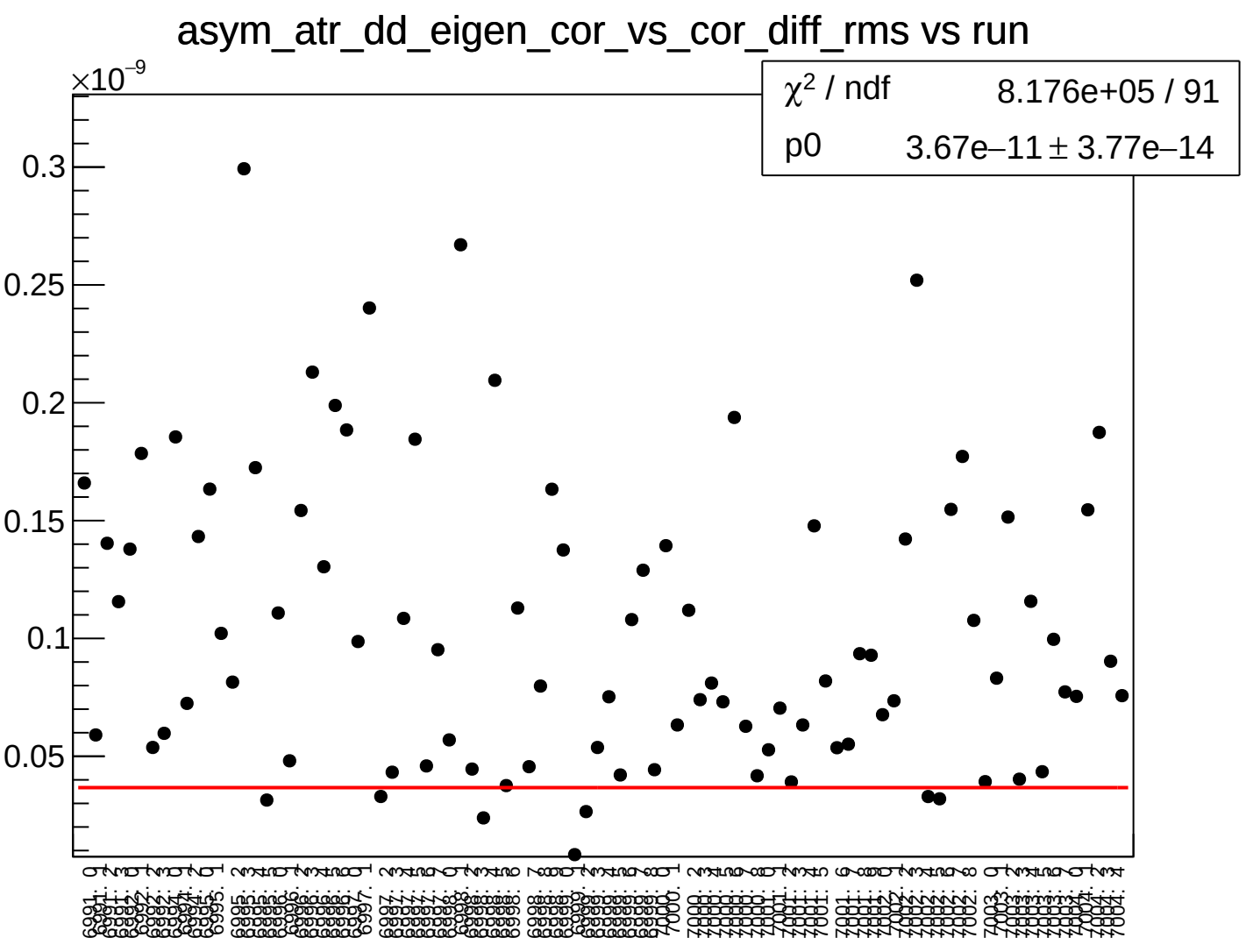

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.4 / 91
p0 0.2978 ± 0.312
pull
Entries 92
Mean −601.3
Std Dev 0

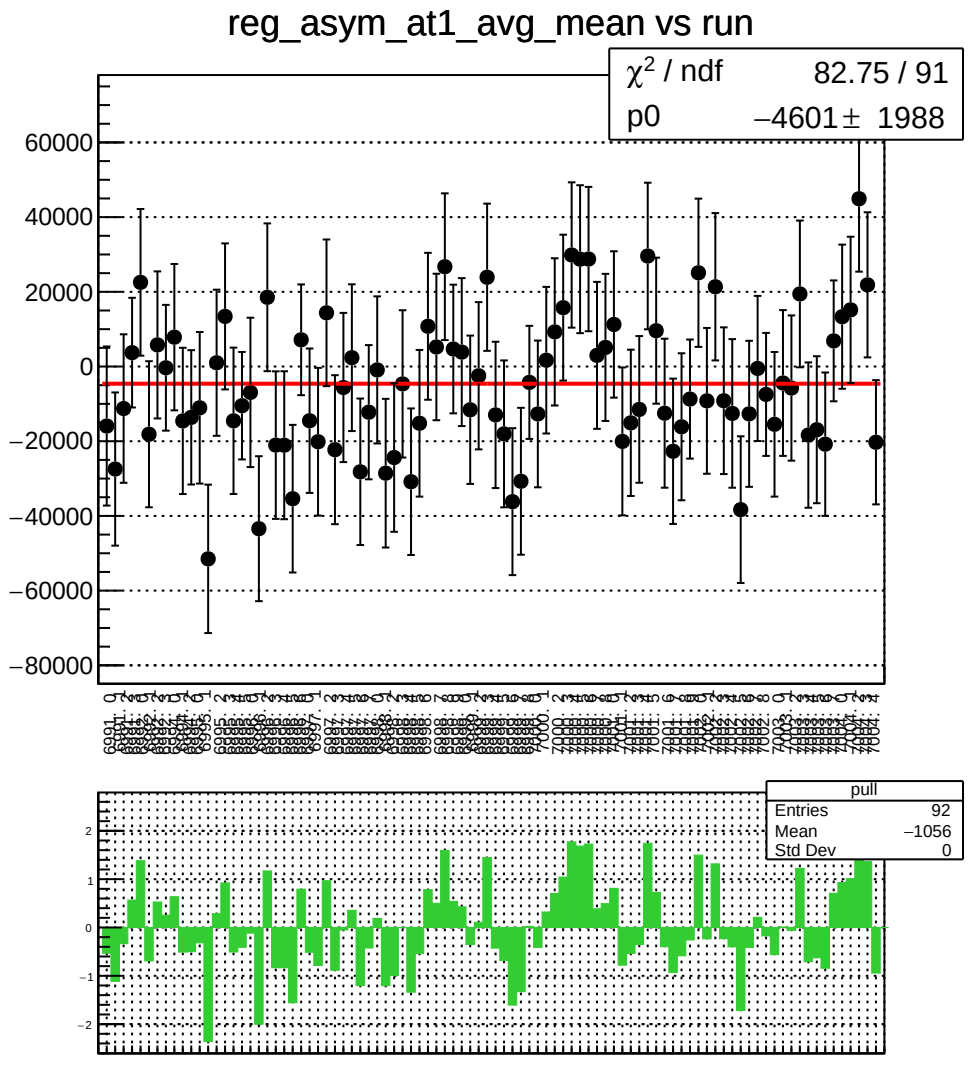

pull1D
Entries 92
Mean −0.008703
Std Dev 1.085

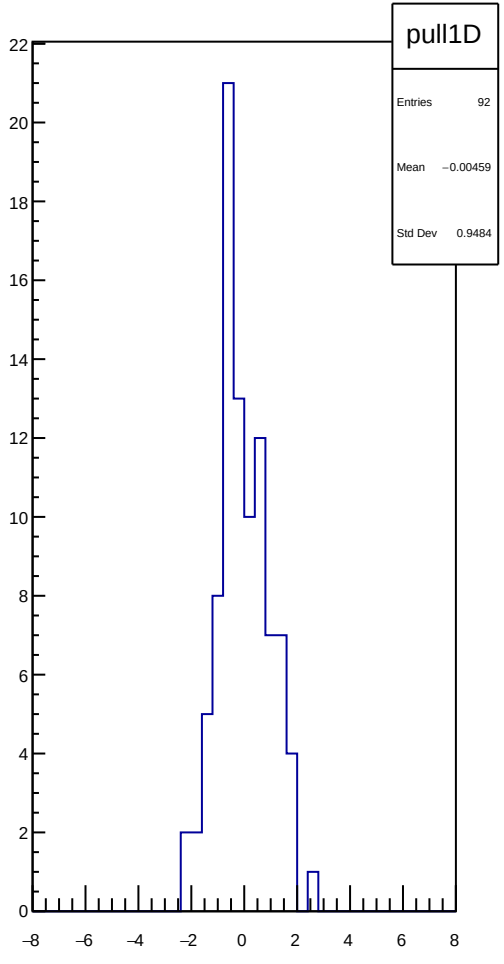

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.342e+04 / 91
p0 292 ± 0.2206
450
400
350
300
250

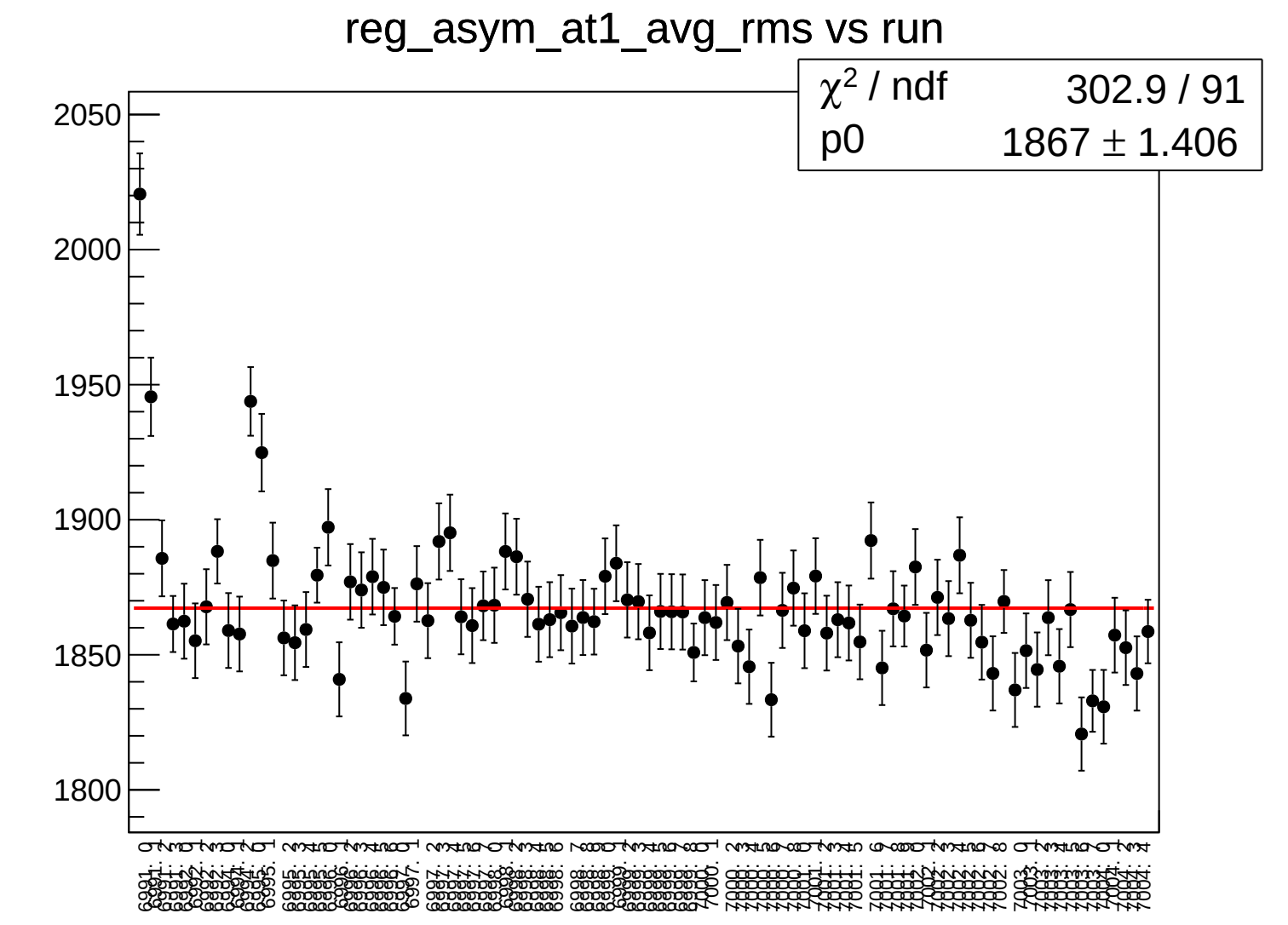

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.18 / 91
p0 −5.638e−14 ± 5.332e−14
pull
Entries 92
Mean 87.49
Std Dev 0

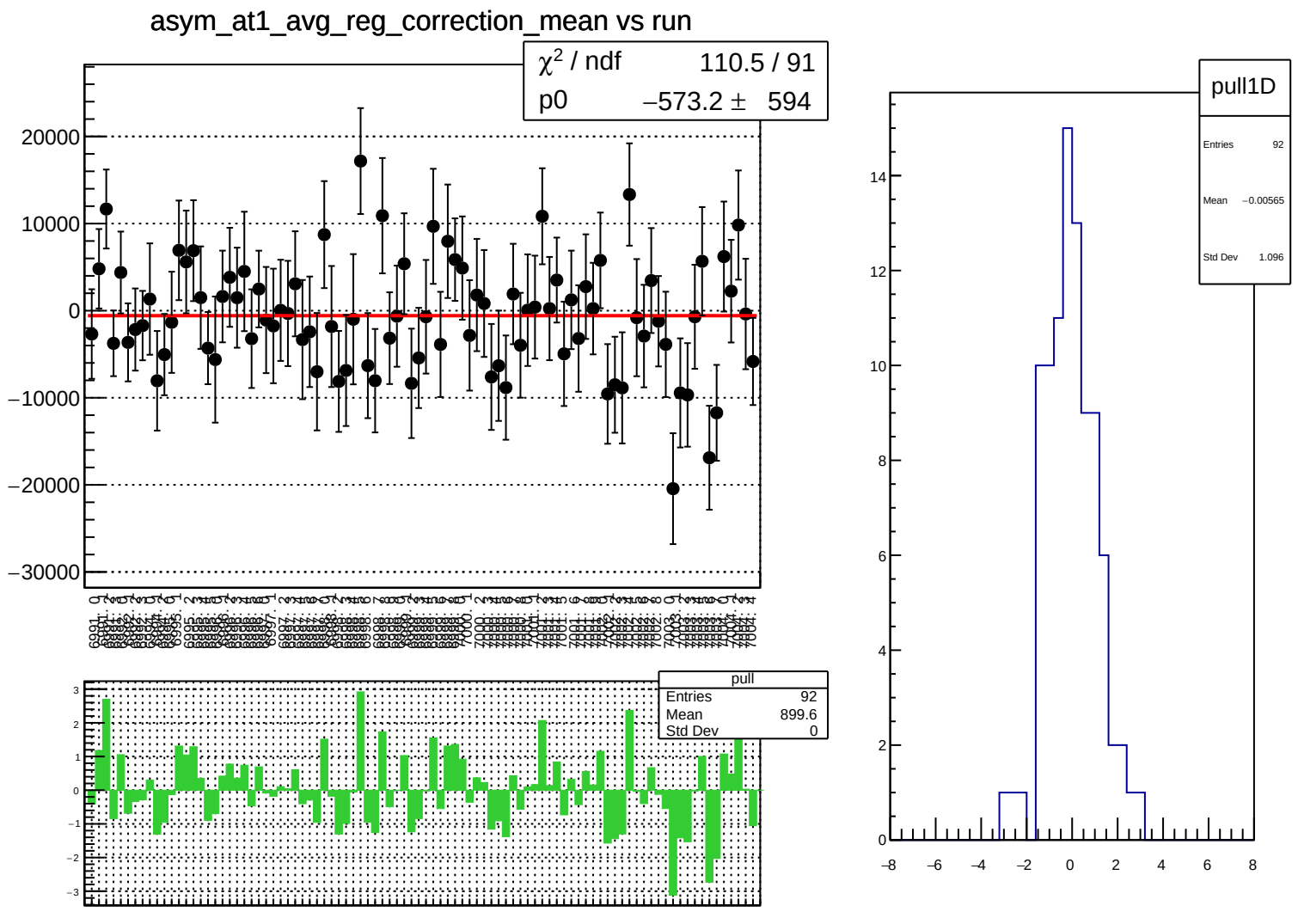

pull1D
Entries 92
Mean −0.07408
Std Dev 0.9818

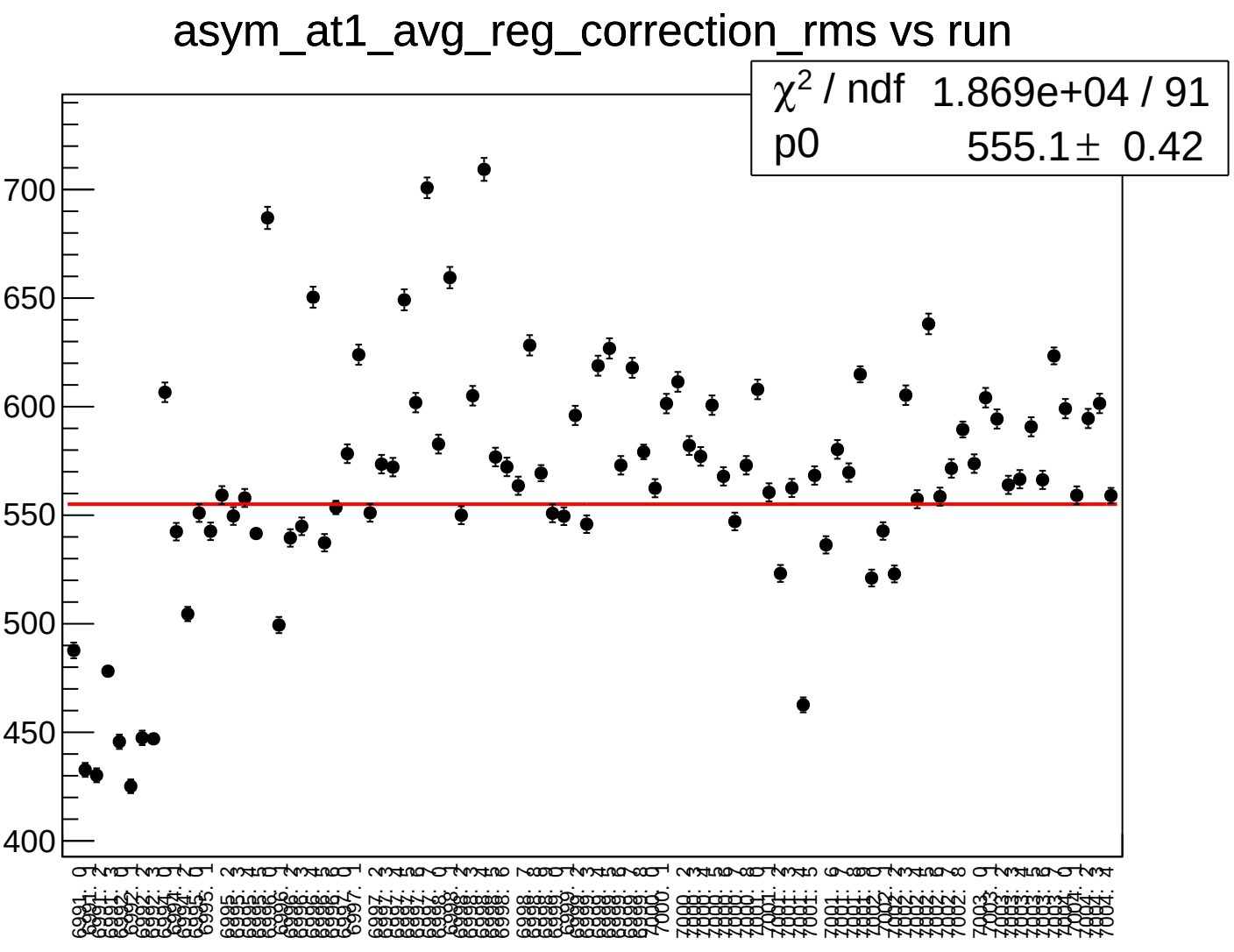

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.176e+05 / 91
p0 3.67e−11 ± 3.77e−14
0.3
0.25
0.2
0.15
0.1
0.05

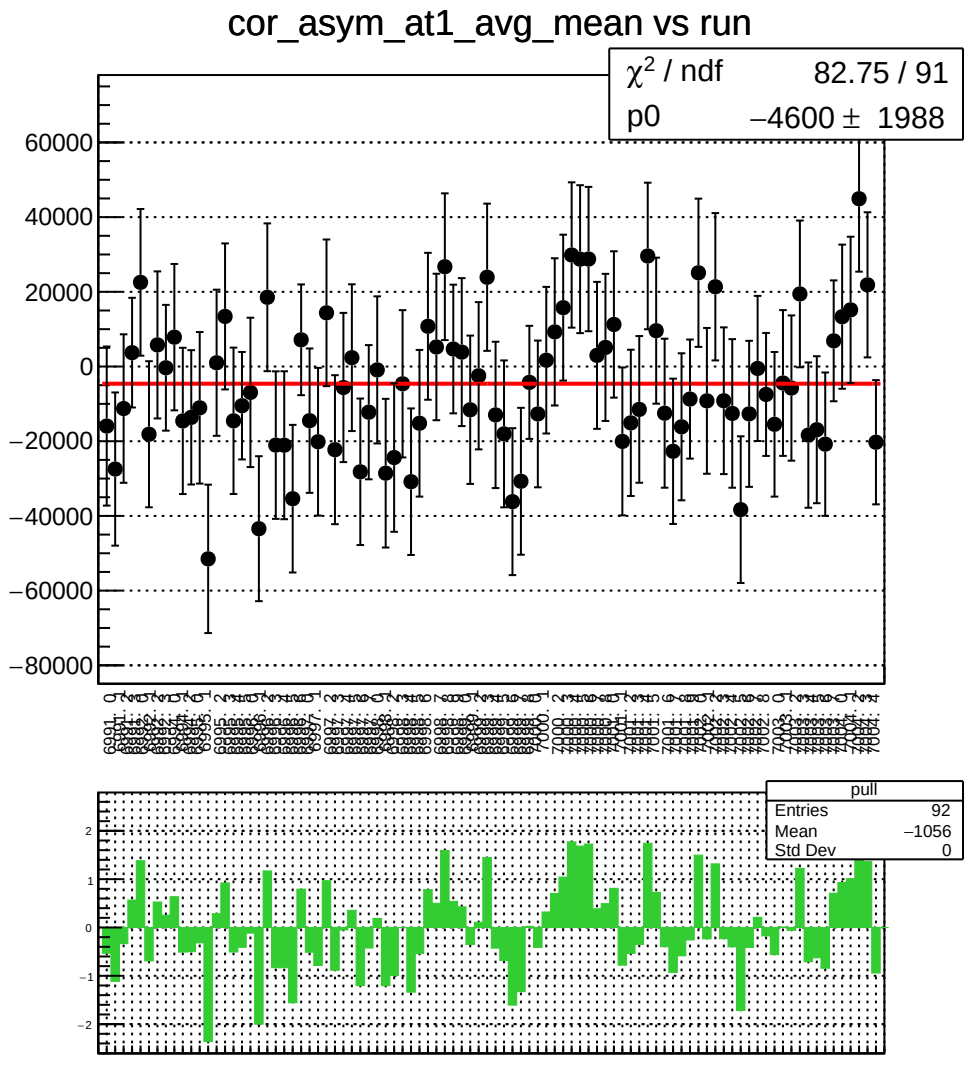

reg_asym_at1_avg_mean vs run
χ² / ndf 82.75 / 91
p0 −4601 ± 1988
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1056
Std Dev 0
2
1
0
−1
−2

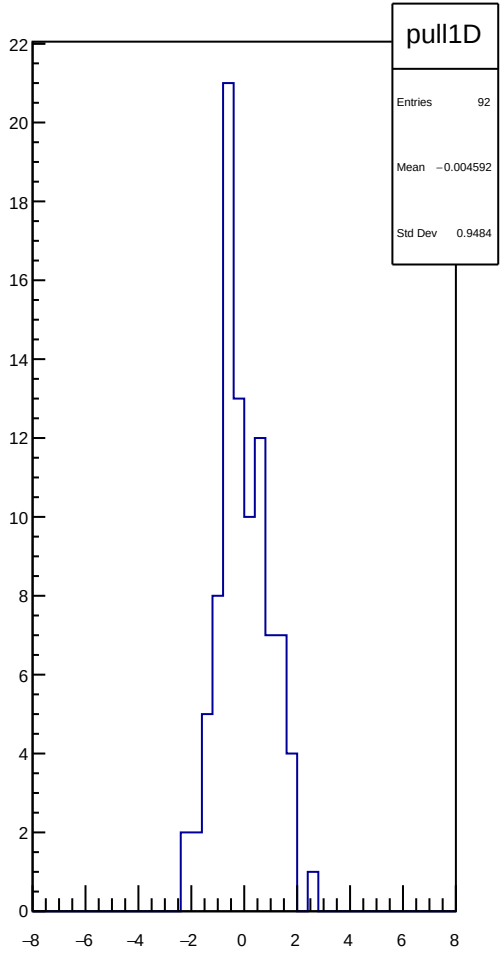

pull1D
Entries 92
Mean −0.00459
Std Dev 0.9484
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

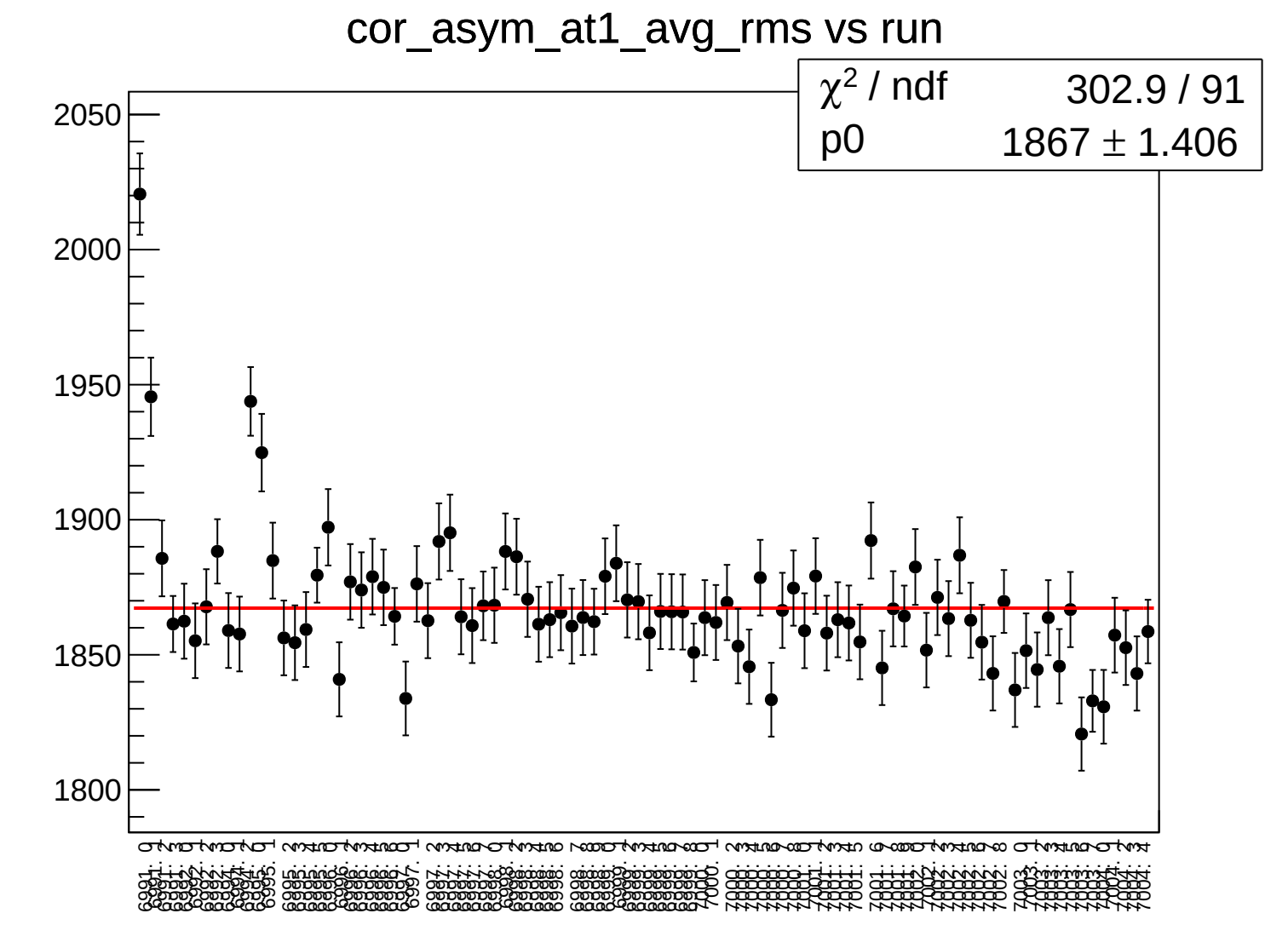

reg_asym_at1_avg_rms vs run
χ² / ndf 302.9 / 91
p0 1867 ± 1.406
2050
2000
1950
1900
1850
1800

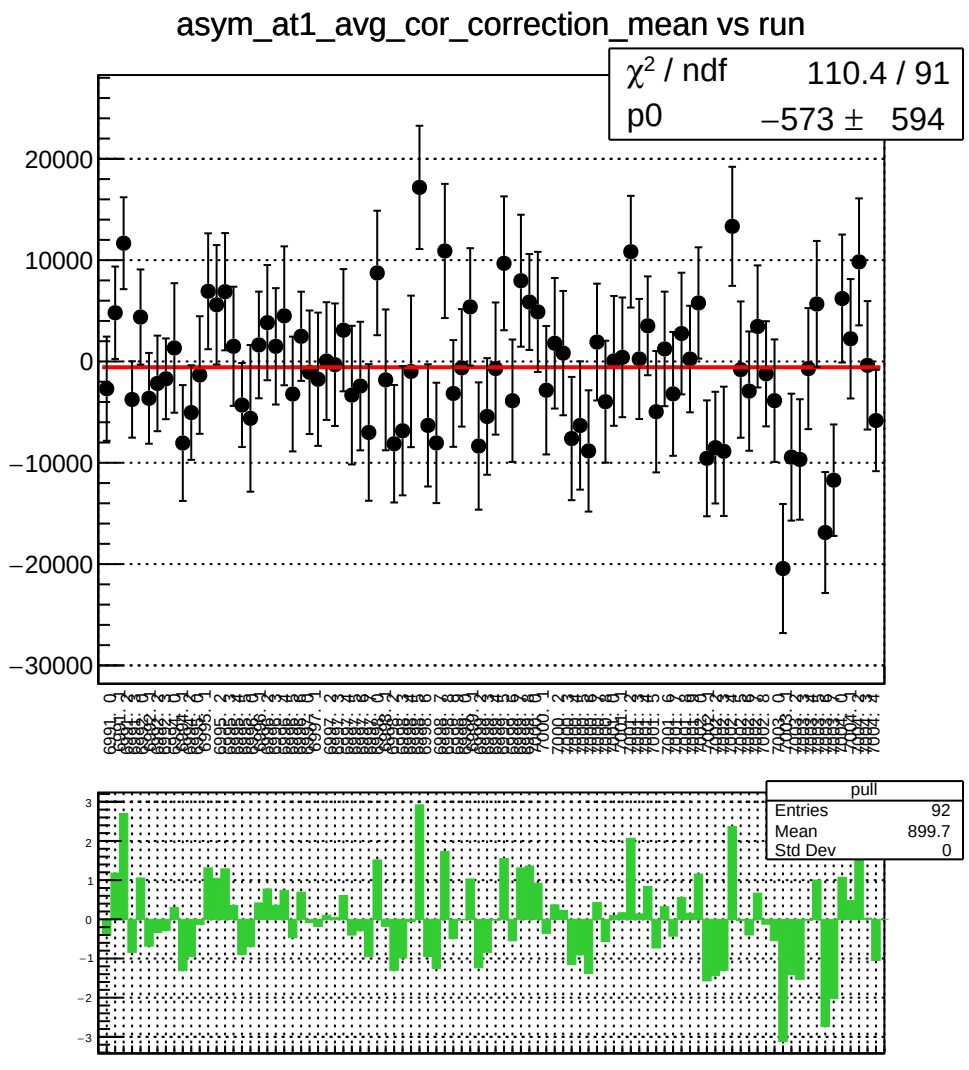

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 110.5 / 91
p0 −573.2 ± 594
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 899.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.00565
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

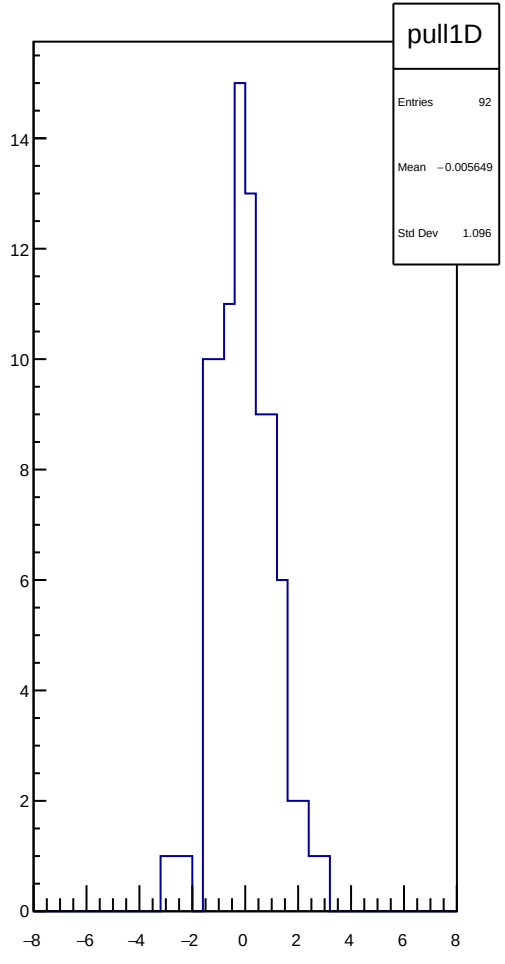

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.869e+04 / 91
p0 555.1 ± 0.42
700
650
600
550
500
450
400

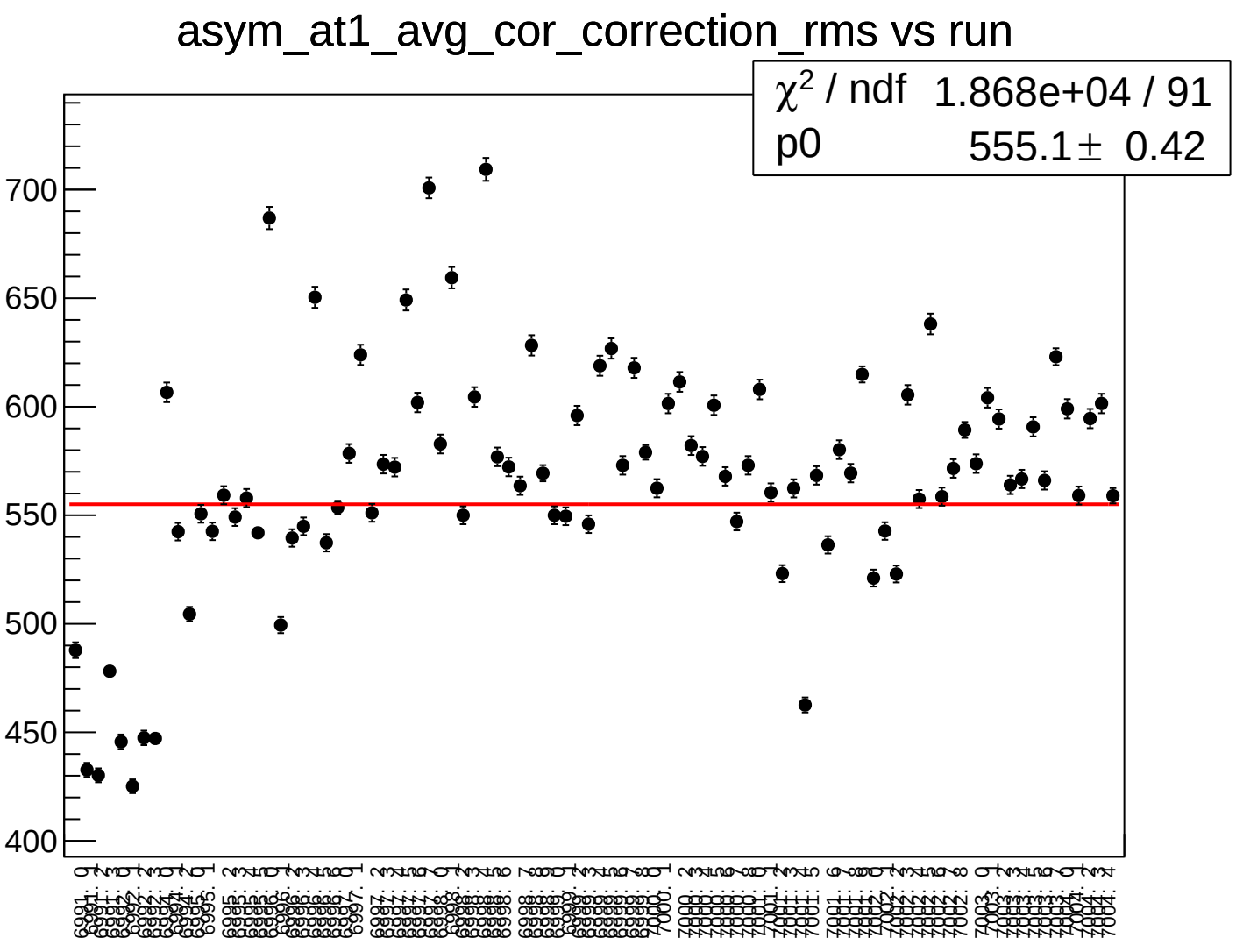

cor_asym_at1_avg_mean vs run
χ² / ndf 82.75 / 91
p0 −4600 ± 1988
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1056
Std Dev 0
2
1
0
−1
−2

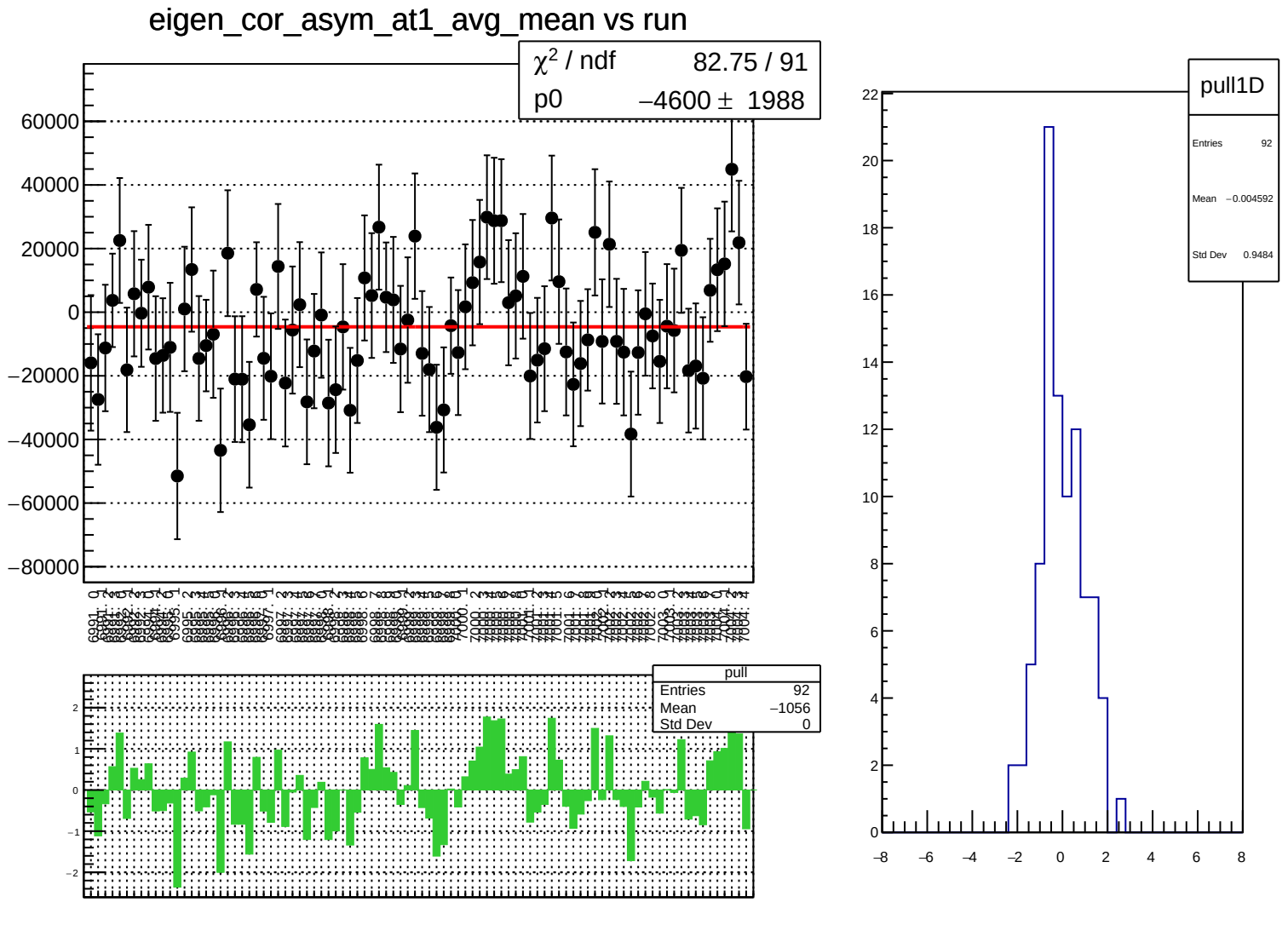

pull1D
Entries 92
Mean −0.004592
Std Dev 0.9484
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

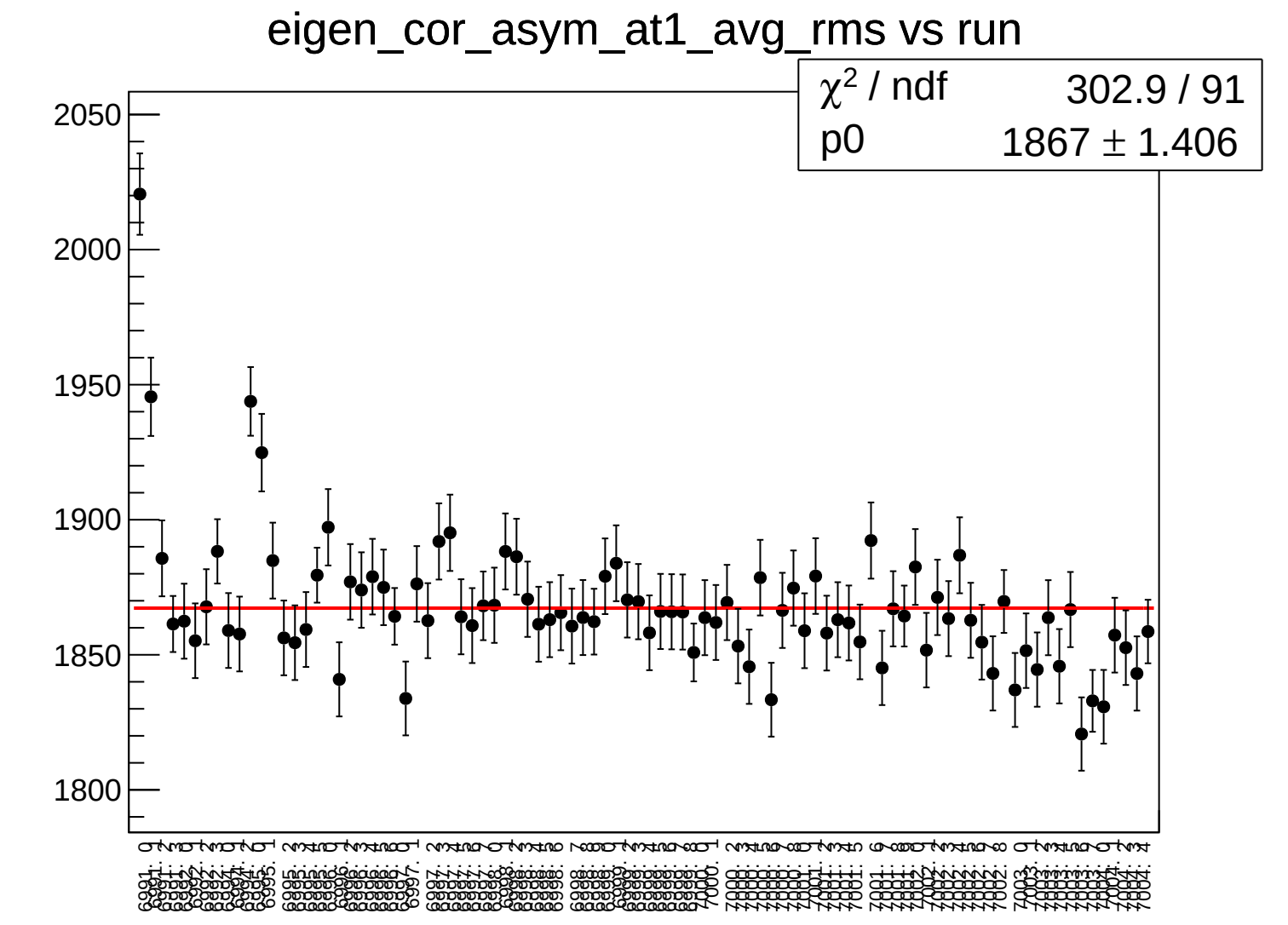

cor_asym_at1_avg_rms vs run
χ² / ndf 302.9 / 91
p0 1867 ± 1.406
2050
2000
1950
1900
1850
1800

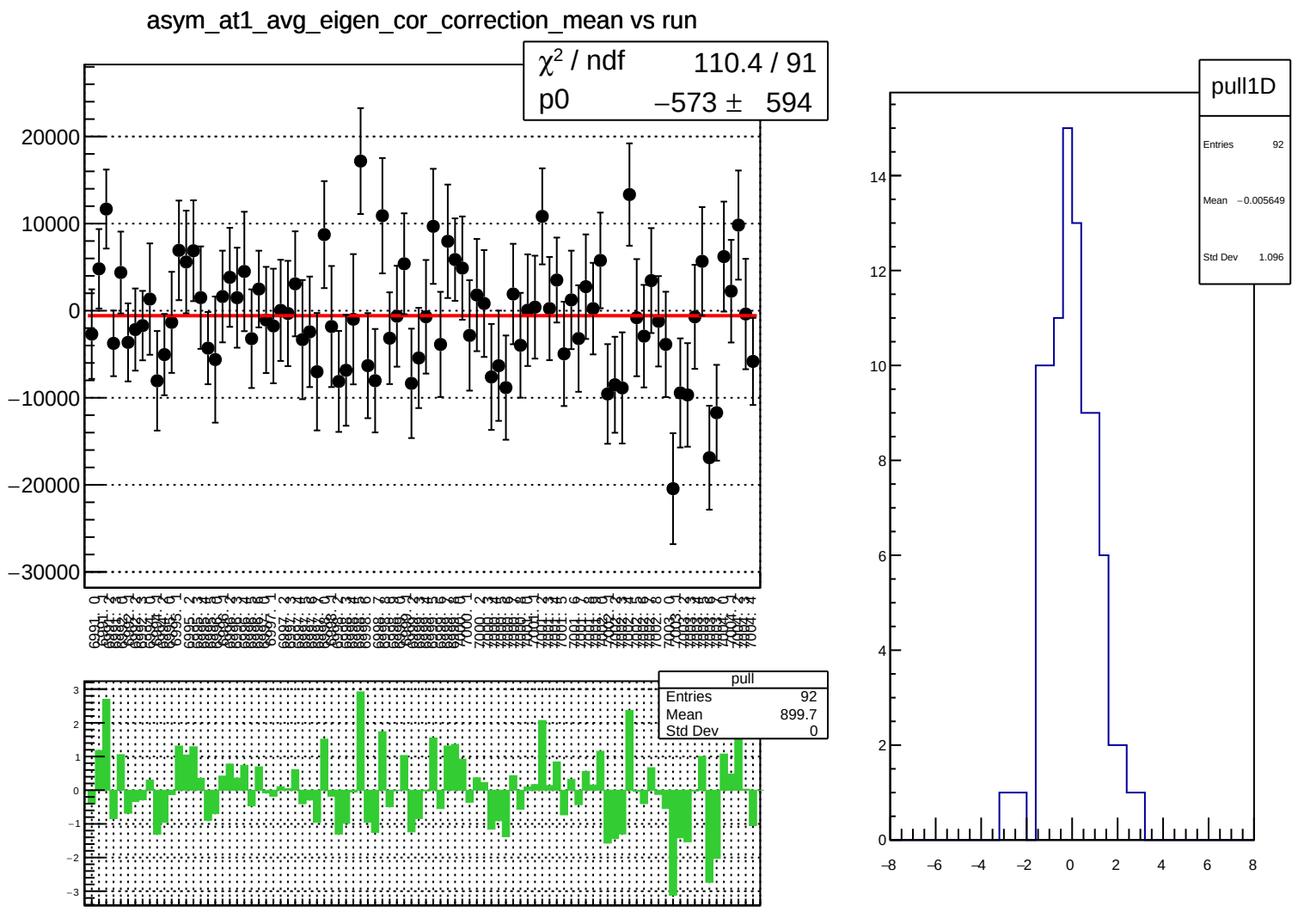

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 110.4 / 91
p0 −573 ± 594
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 899.7
Std Dev 0
3
2
1
0
−1
−2
−3

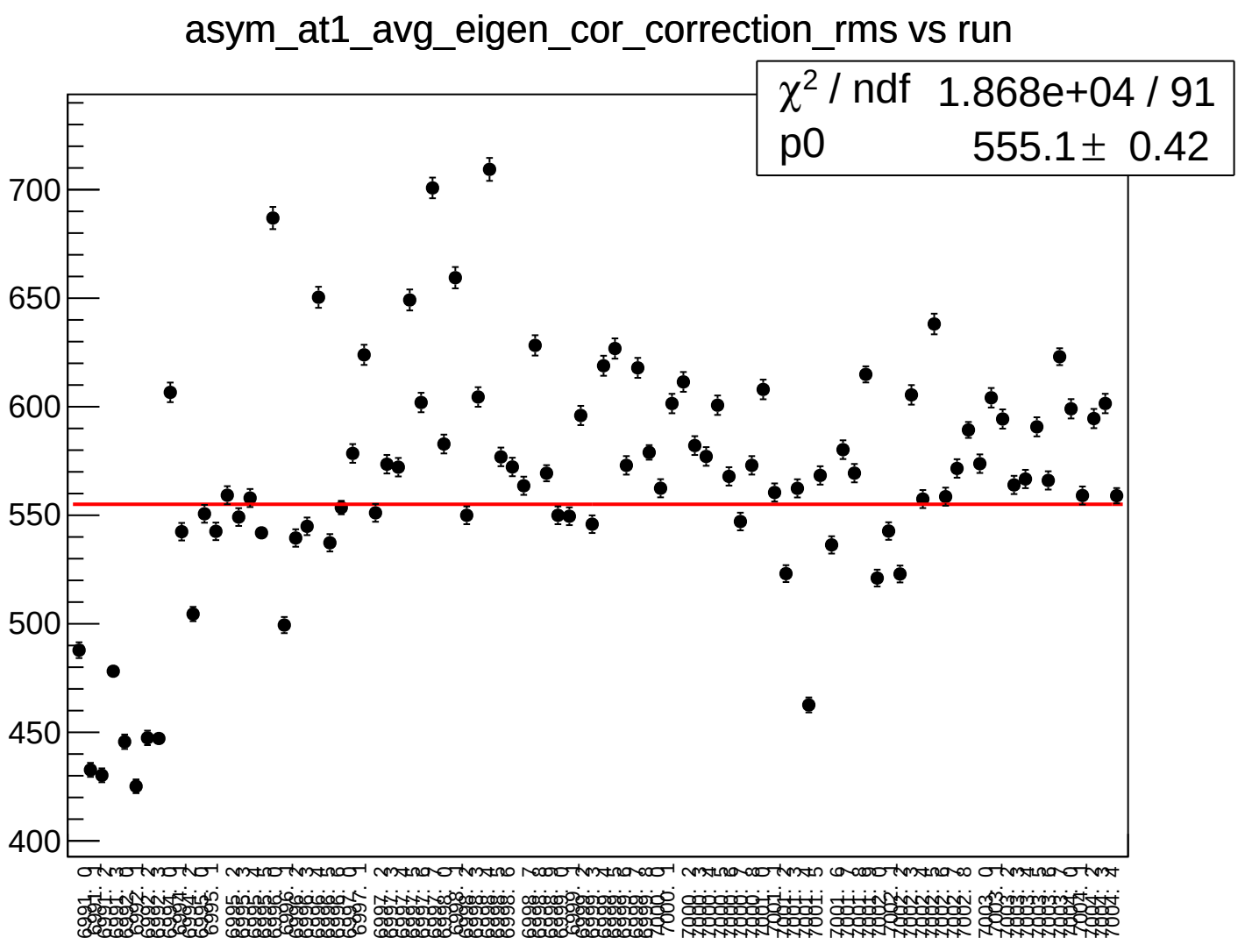

pull1D
Entries 92
Mean −0.005649
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

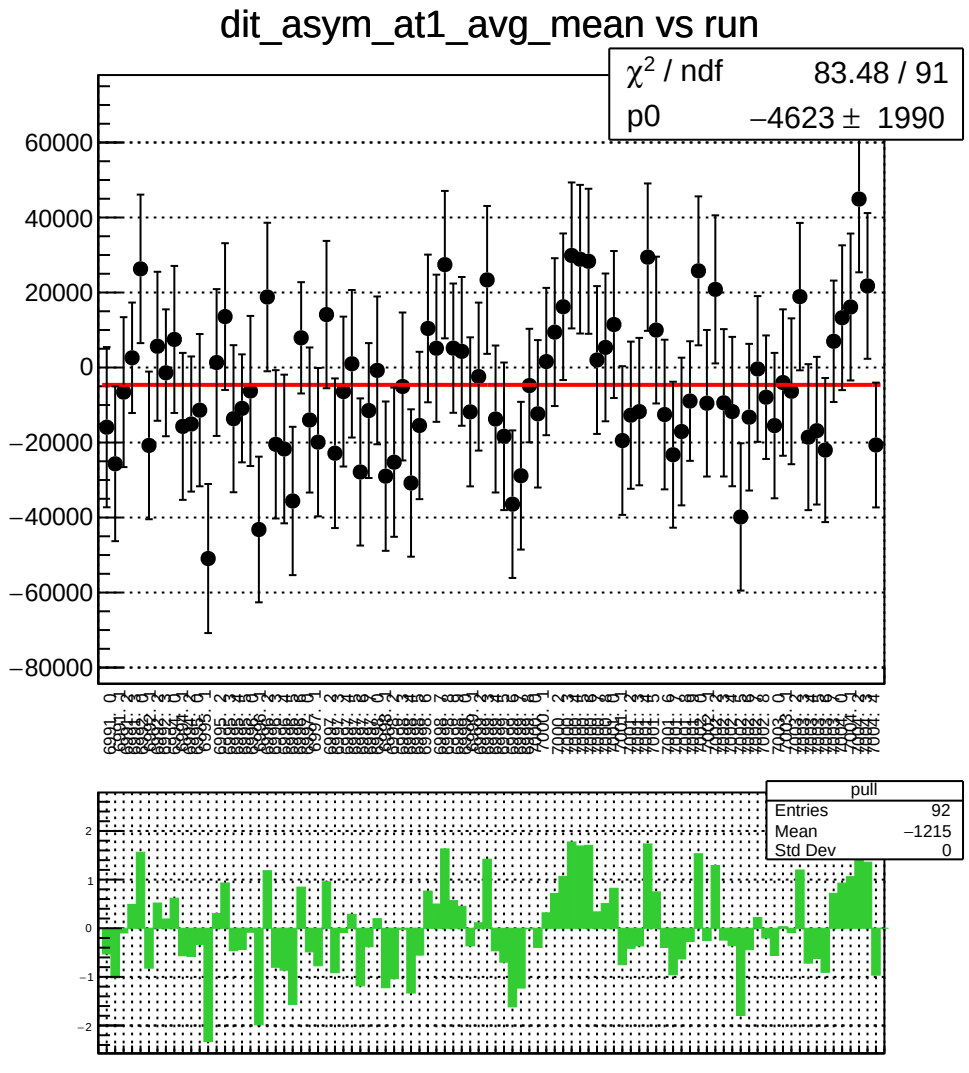

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.868e+04 / 91
p0 555.1 ± 0.42
700
650
600
550
500
450
400

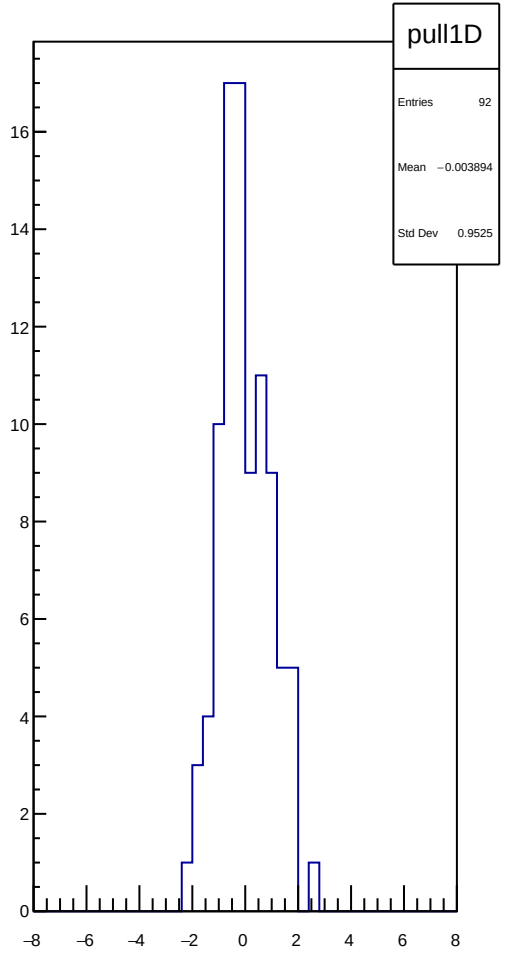

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 82.75 / 91
p0 −4600 ± 1988
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1056
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004592
Std Dev 0.9484
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

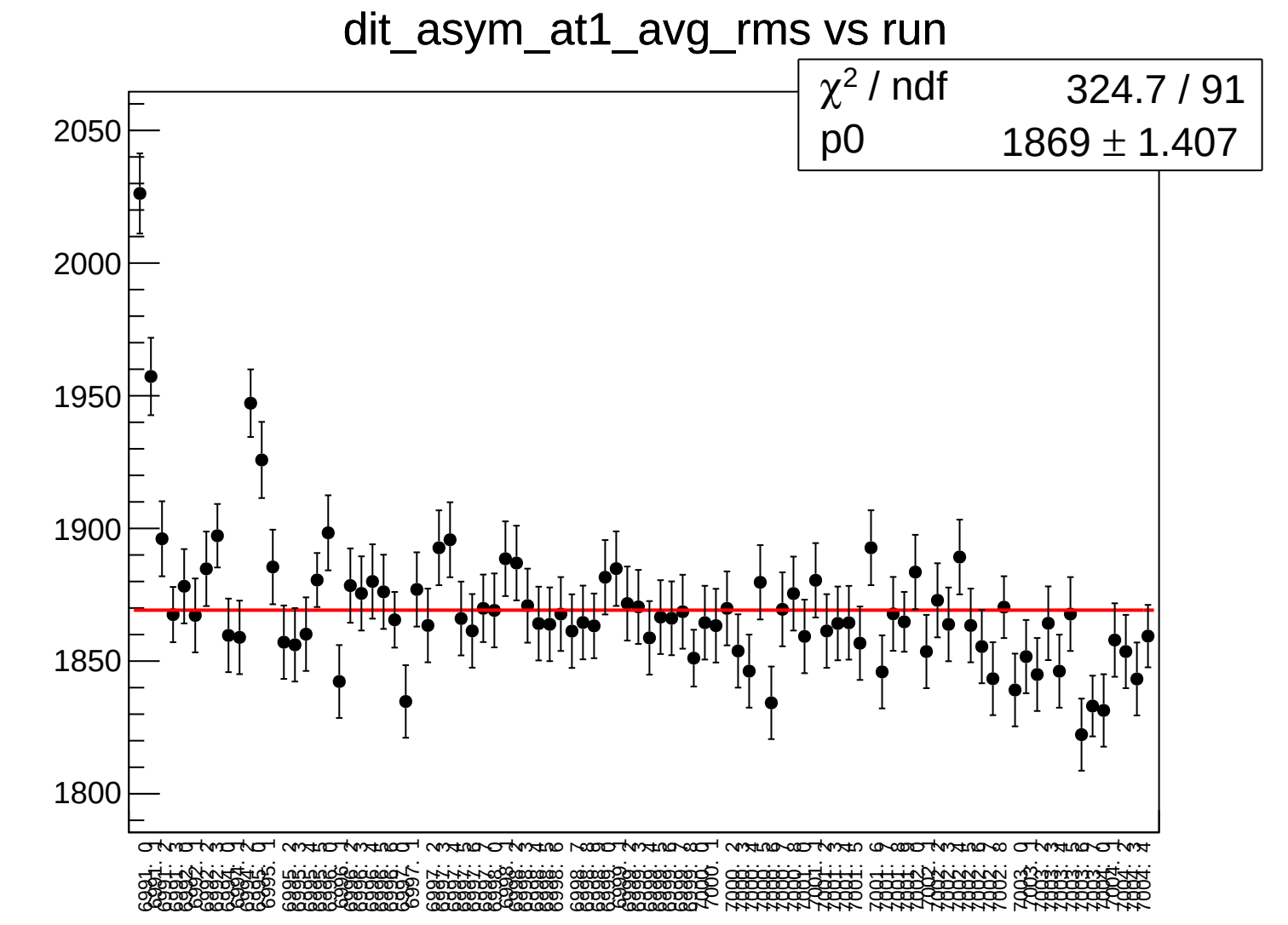

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 302.9 / 91
p0 1867 ± 1.406
2050
2000
1950
1900
1850
1800

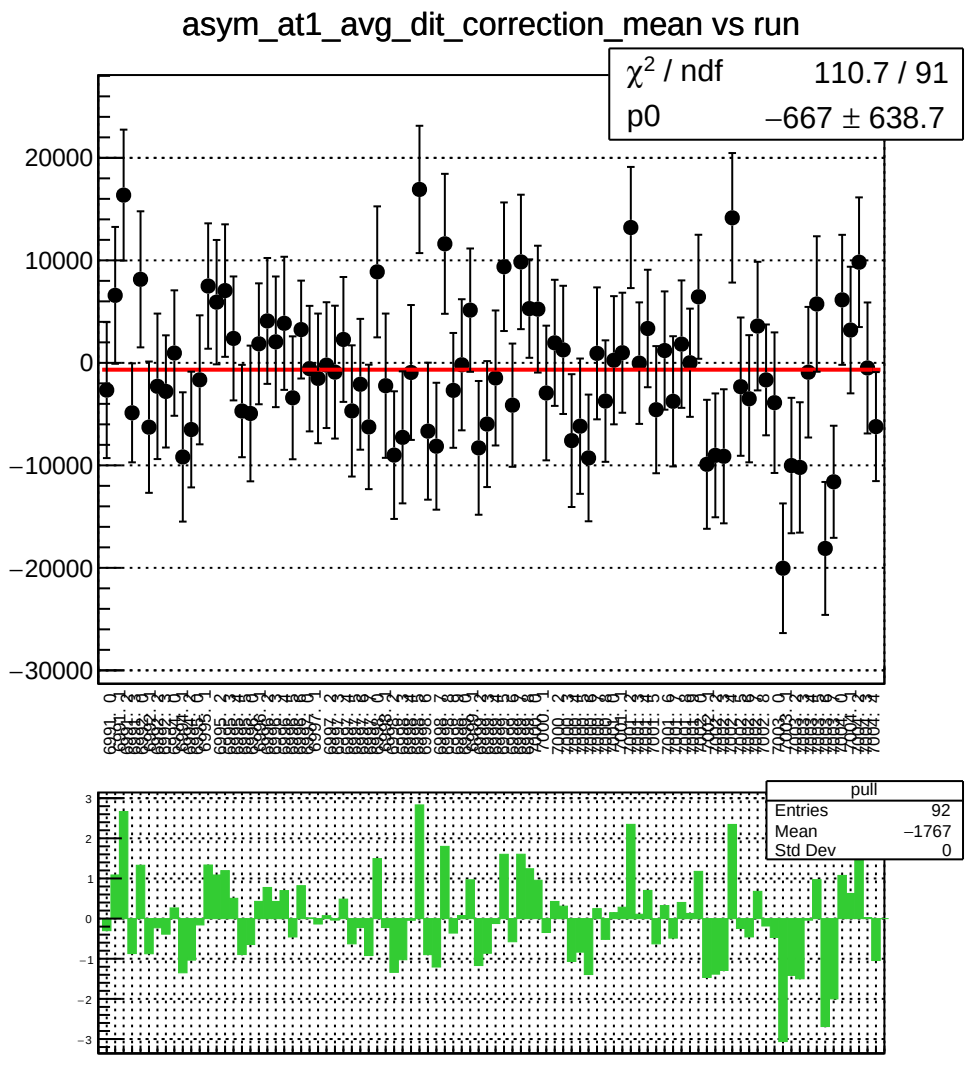

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 110.4 / 91
p0 −573 ± 594
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 899.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005649
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

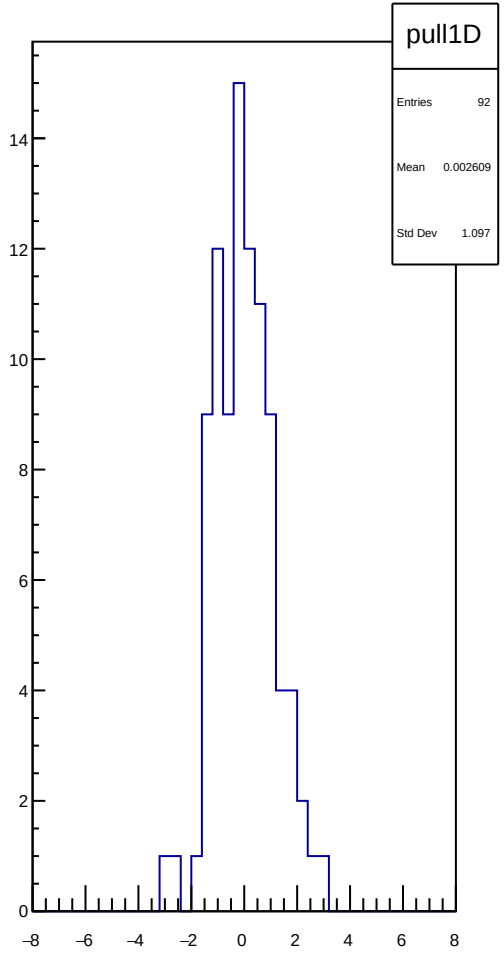

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.868e+04 / 91
p0 555.1 ± 0.42
700
650
600
550
500
450
400

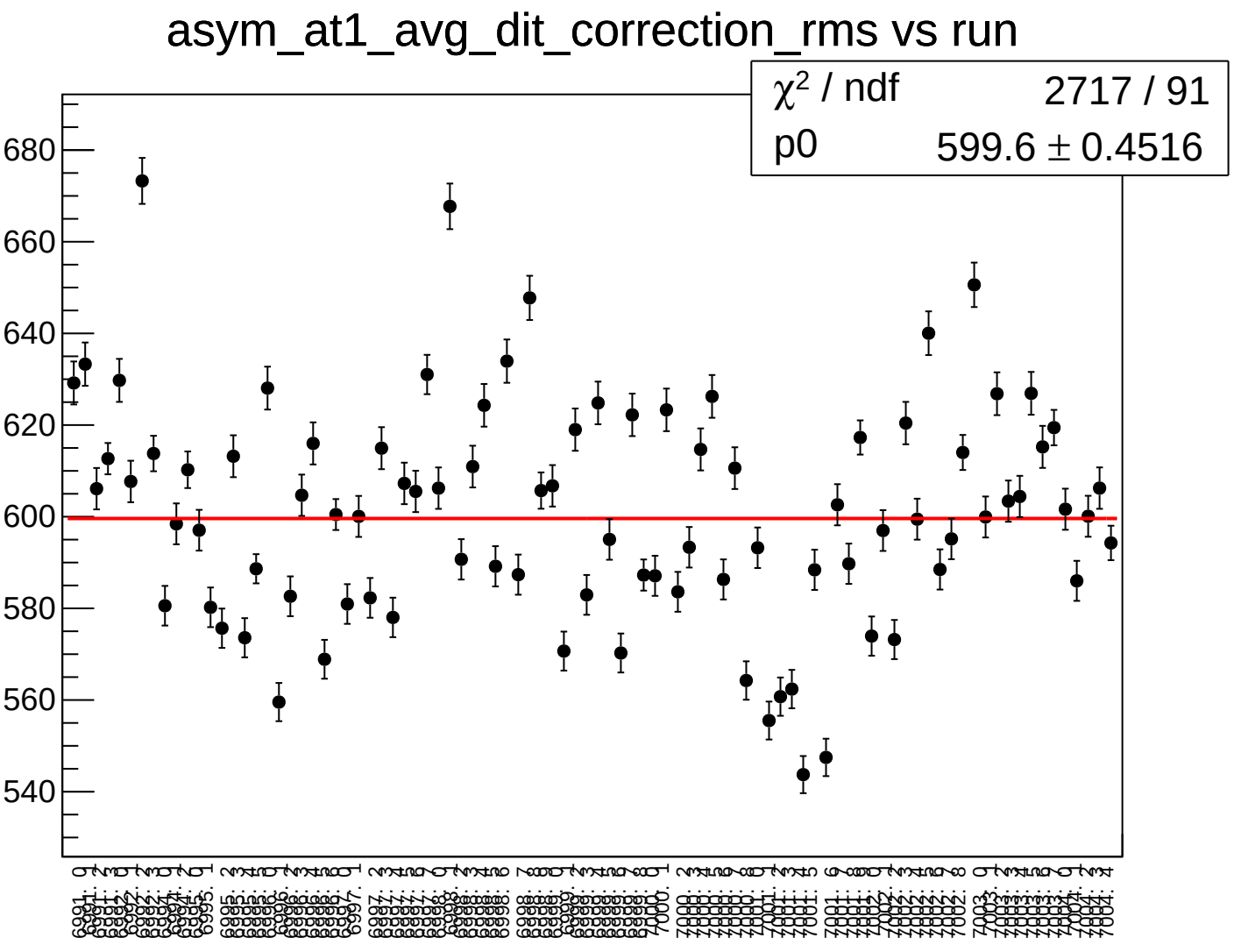

dit_asym_at1_avg_mean vs run
χ² / ndf 83.48 / 91
p0 −4623 ± 1990
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1215
Std Dev 0
2
1
0
−1
−2

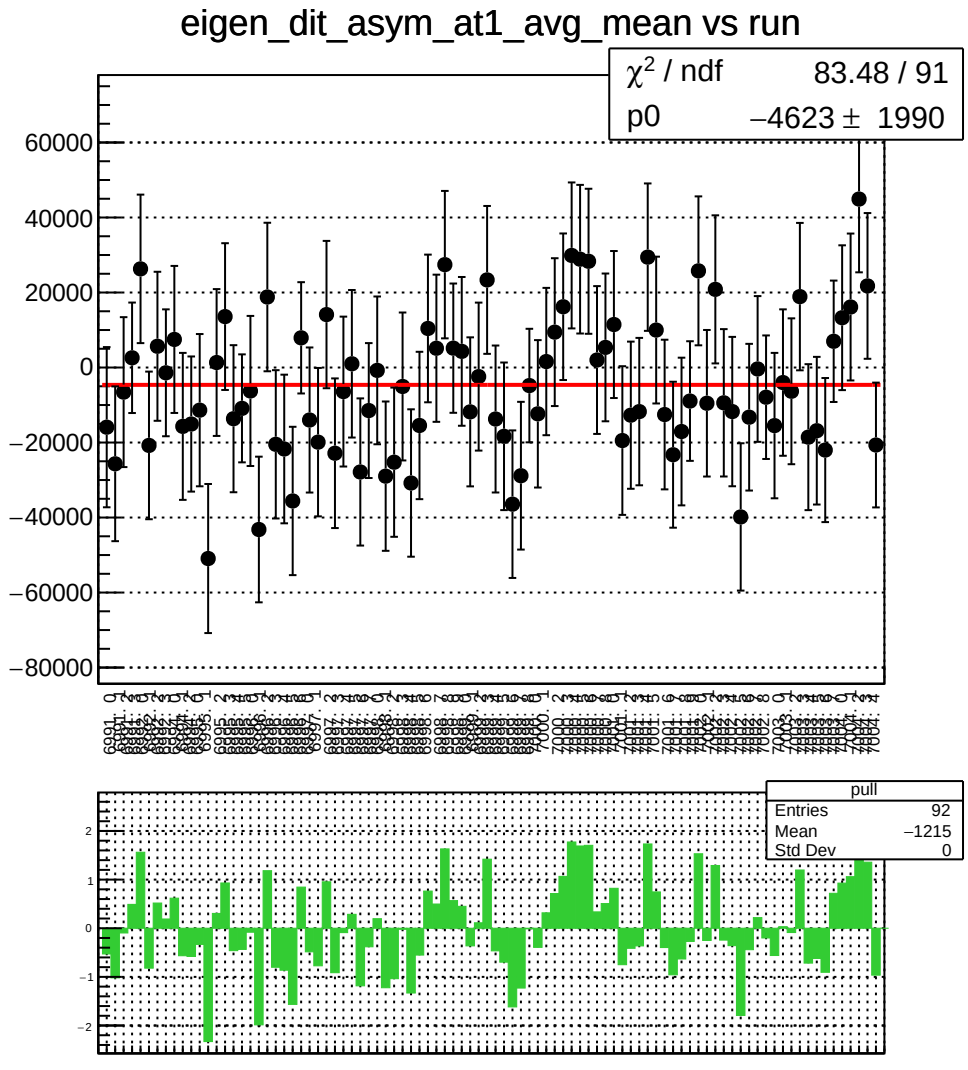

pull1D
Entries 92
Mean −0.003894
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

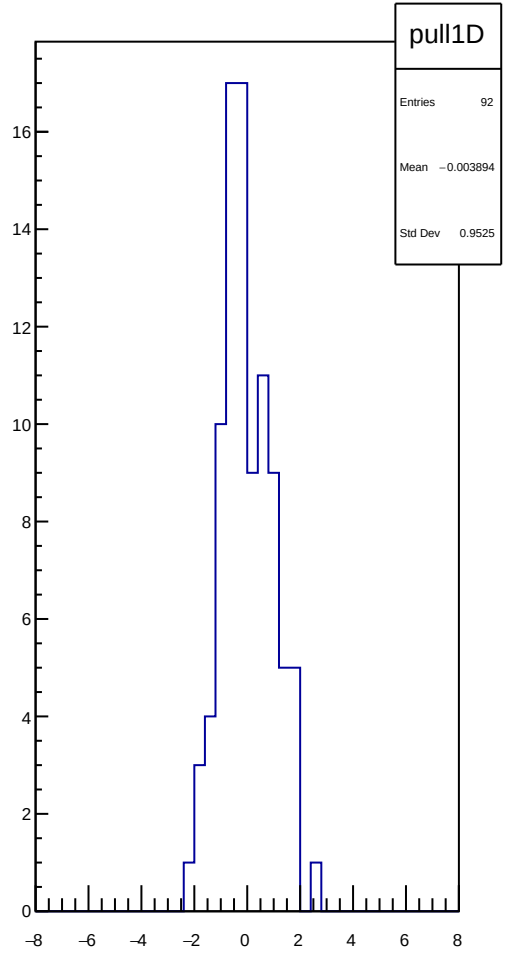

dit_asym_at1_avg_rms vs run
χ² / ndf 324.7 / 91
p0 1869 ± 1.407
2050
2000
1950
1900
1850
1800

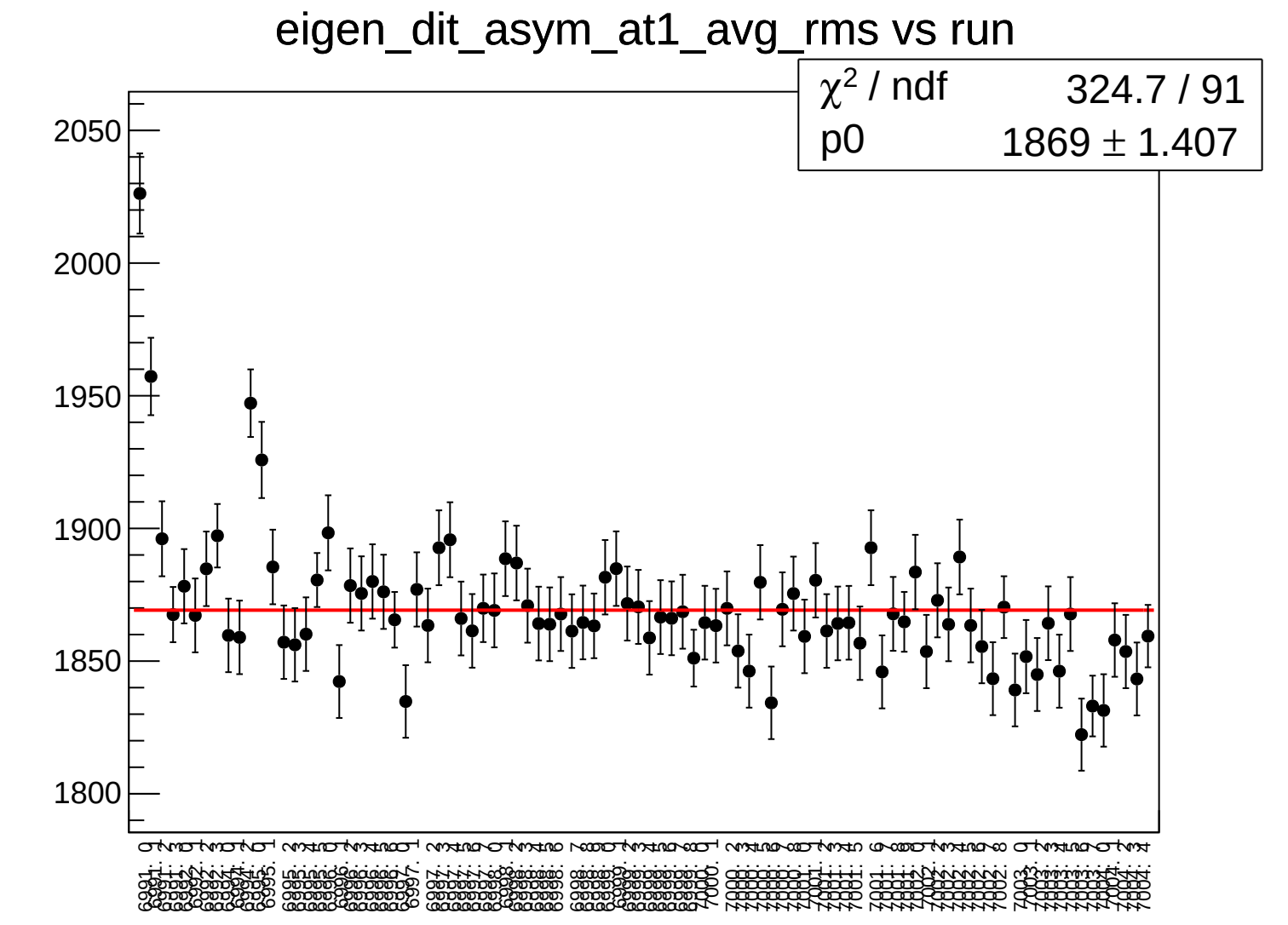

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 110.7 / 91
p0 −667 ± 638.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1767
Std Dev 0
3
2
1
0
−1
−2
−3

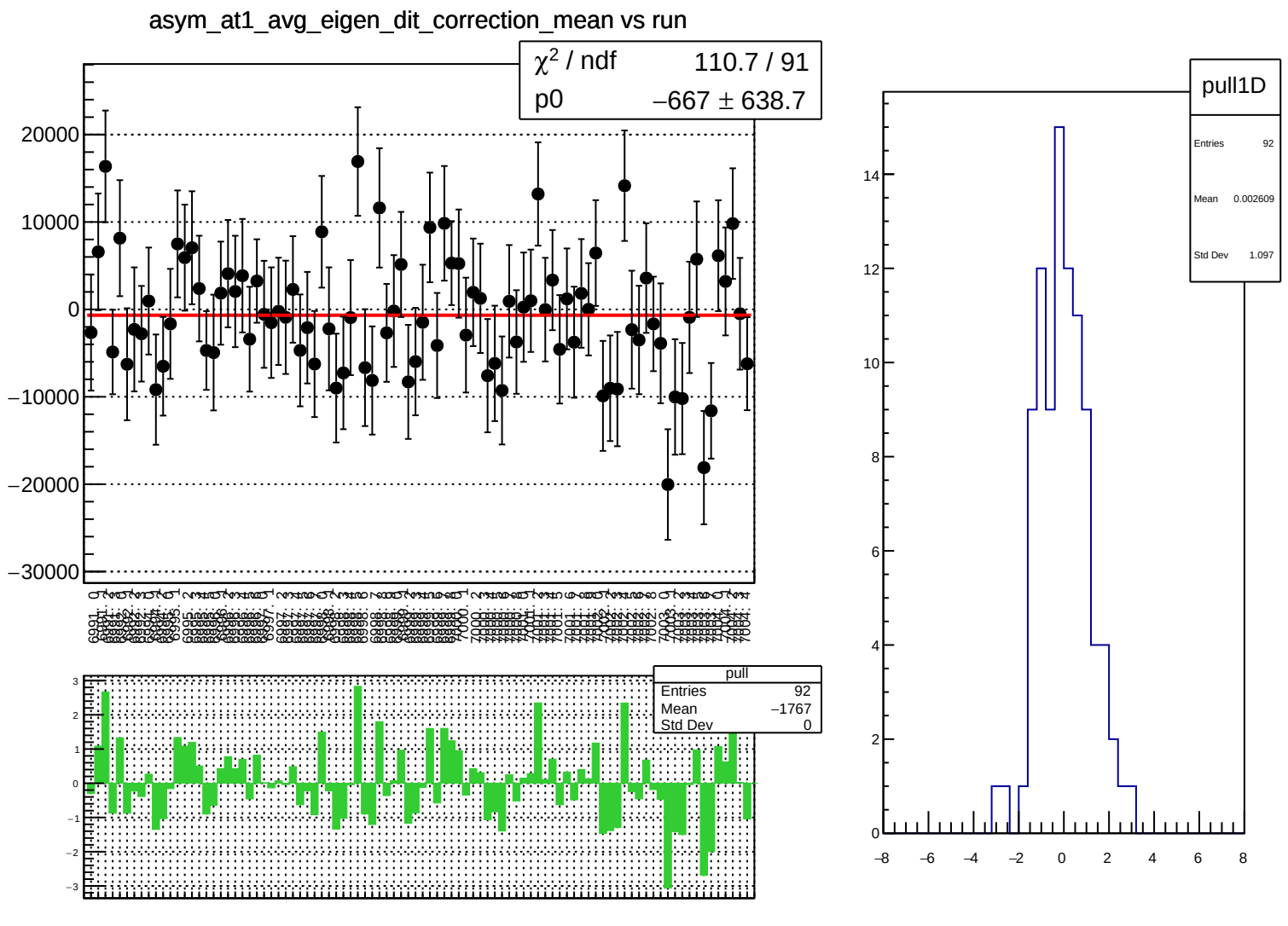

pull1D
Entries 92
Mean 0.002609
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

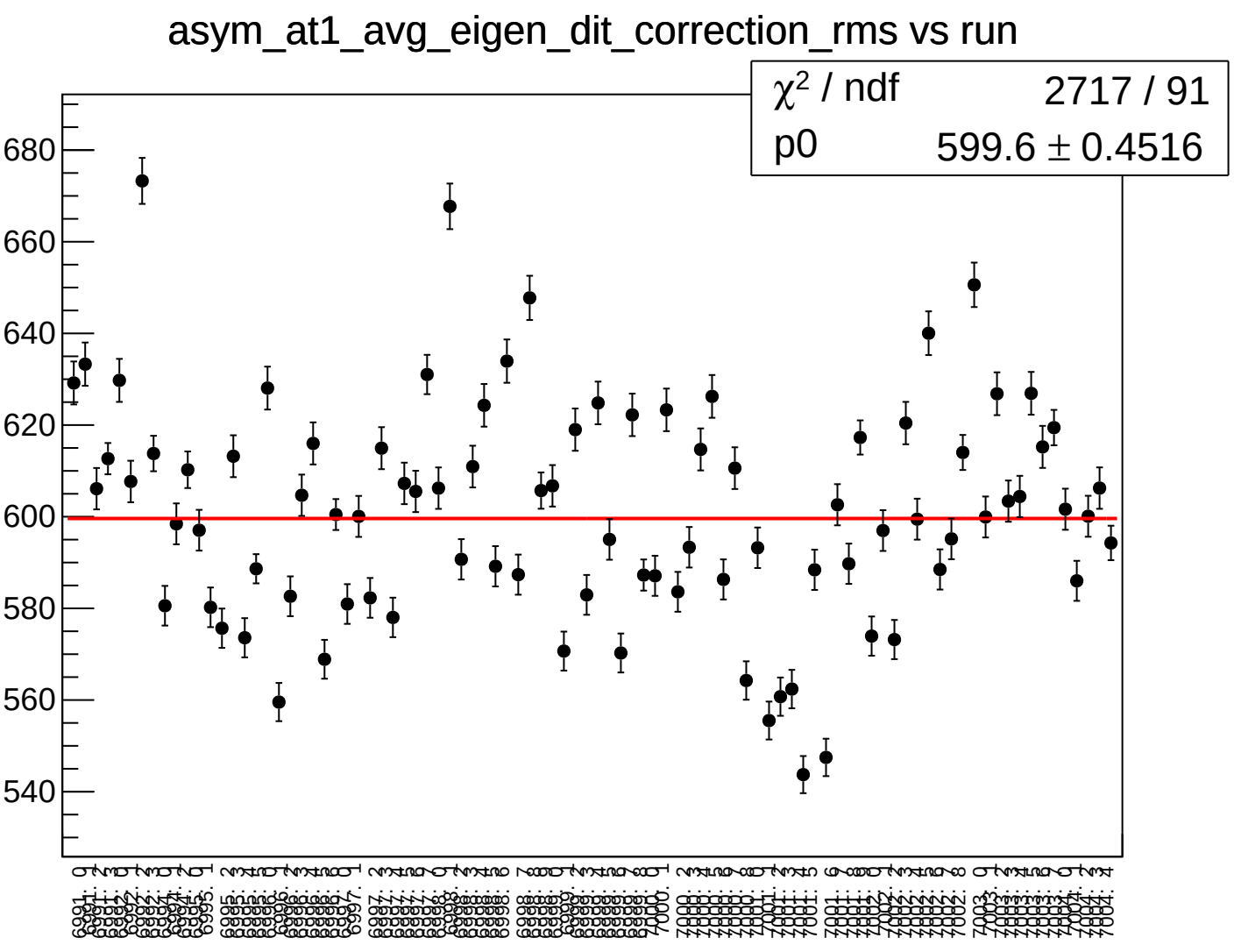

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 2717 / 91
p0 599.6 ± 0.4516
680
660
640
620
600
580
560
540

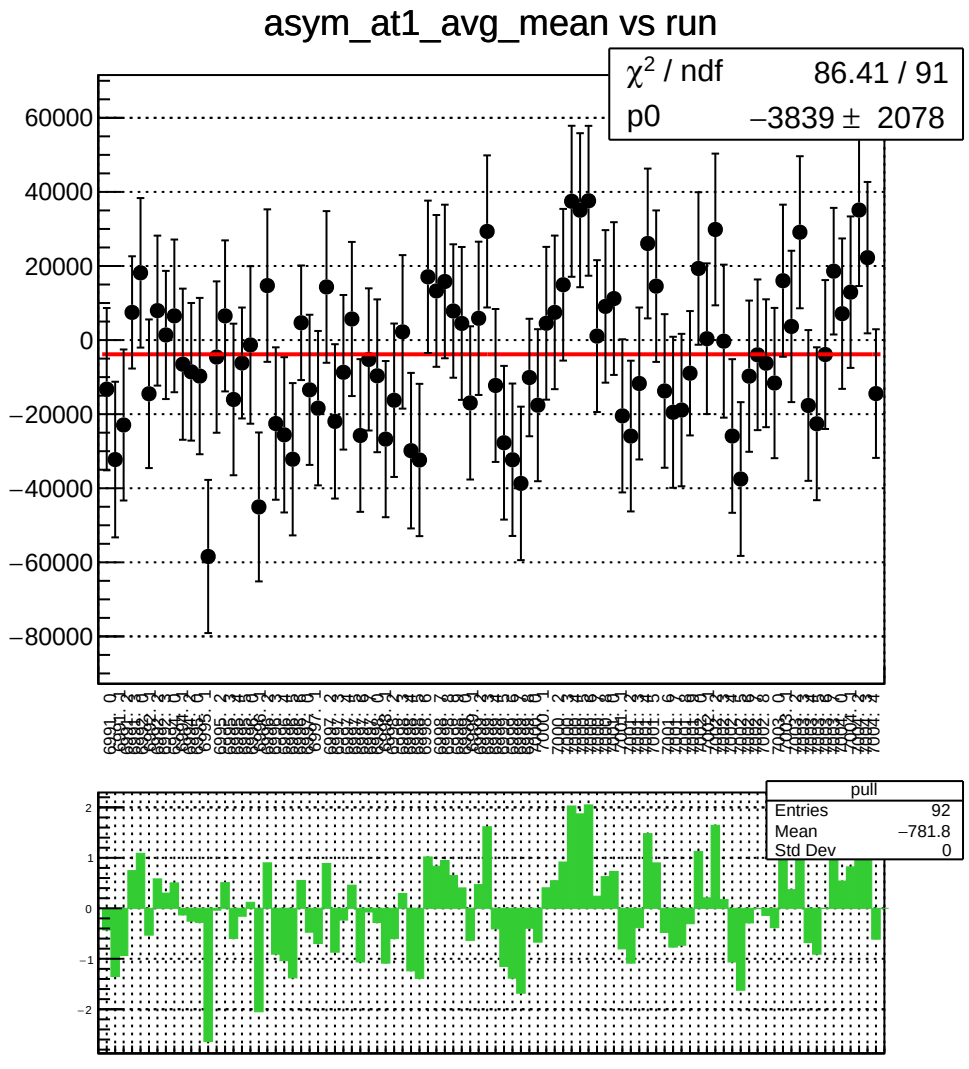

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 83.48 / 91
p0 −4623 ± 1990
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1215
Std Dev 0
2
1
0
−1
−2

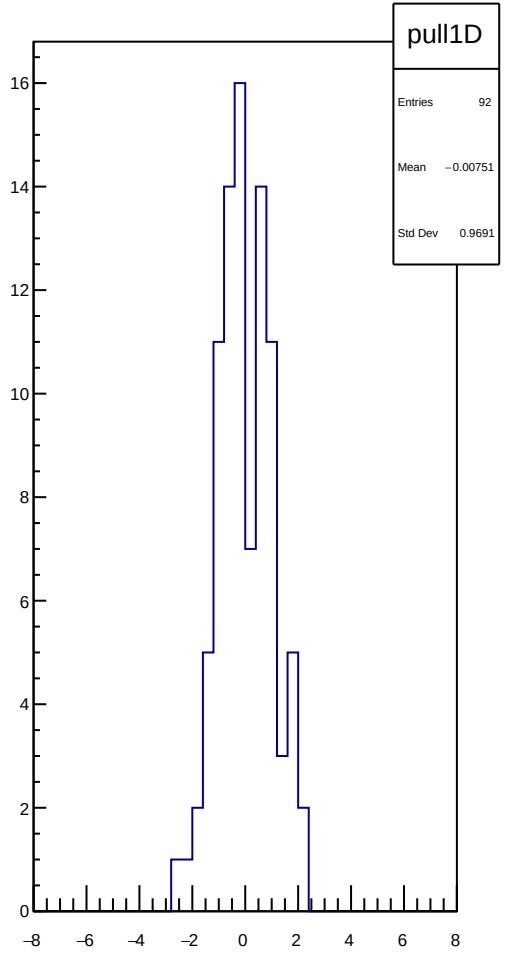

pull1D
Entries 92
Mean −0.003894
Std Dev 0.9525
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

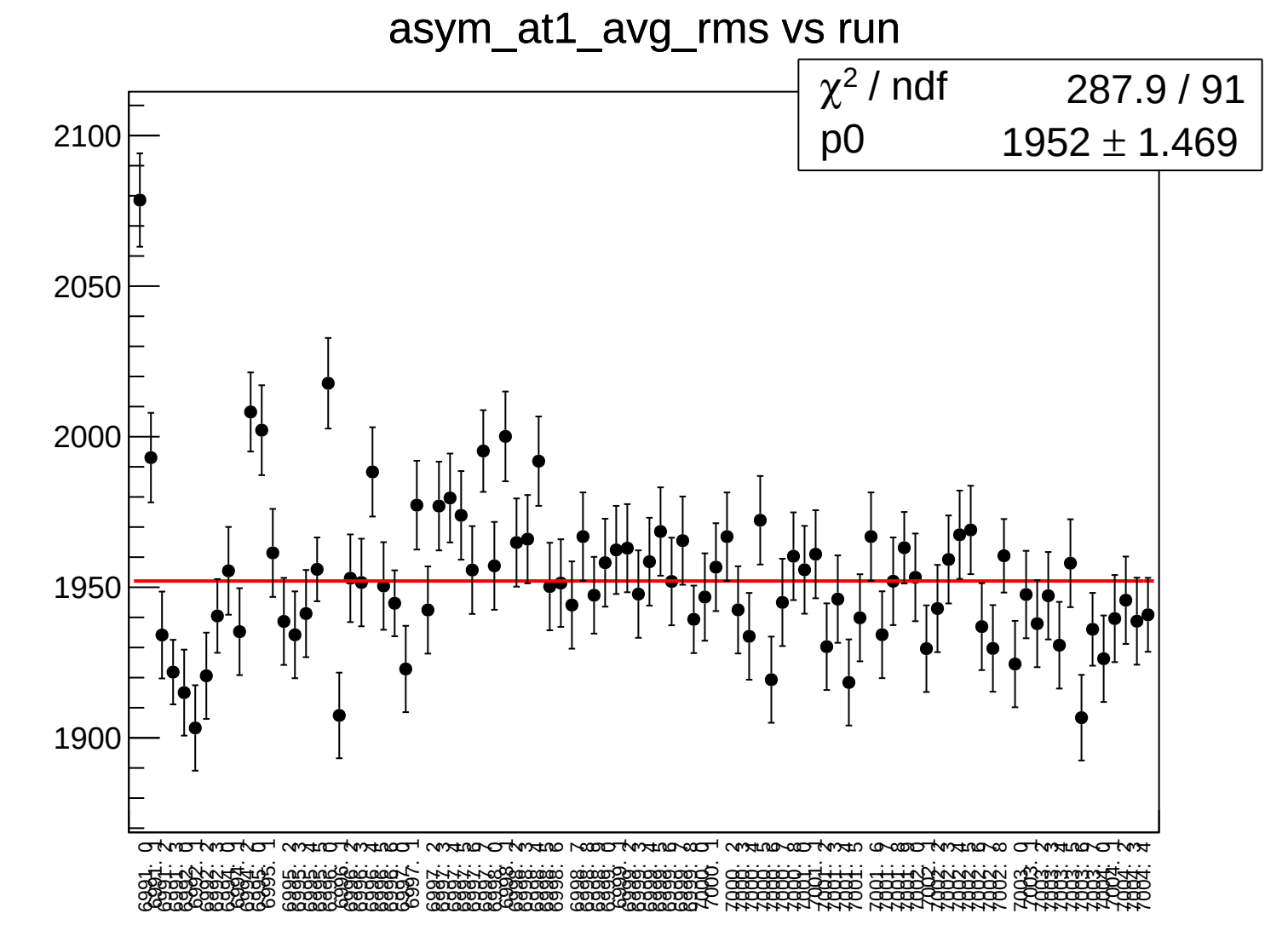

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 324.7 / 91
p0 1869 ± 1.407
2050
2000
1950
1900
1850
1800

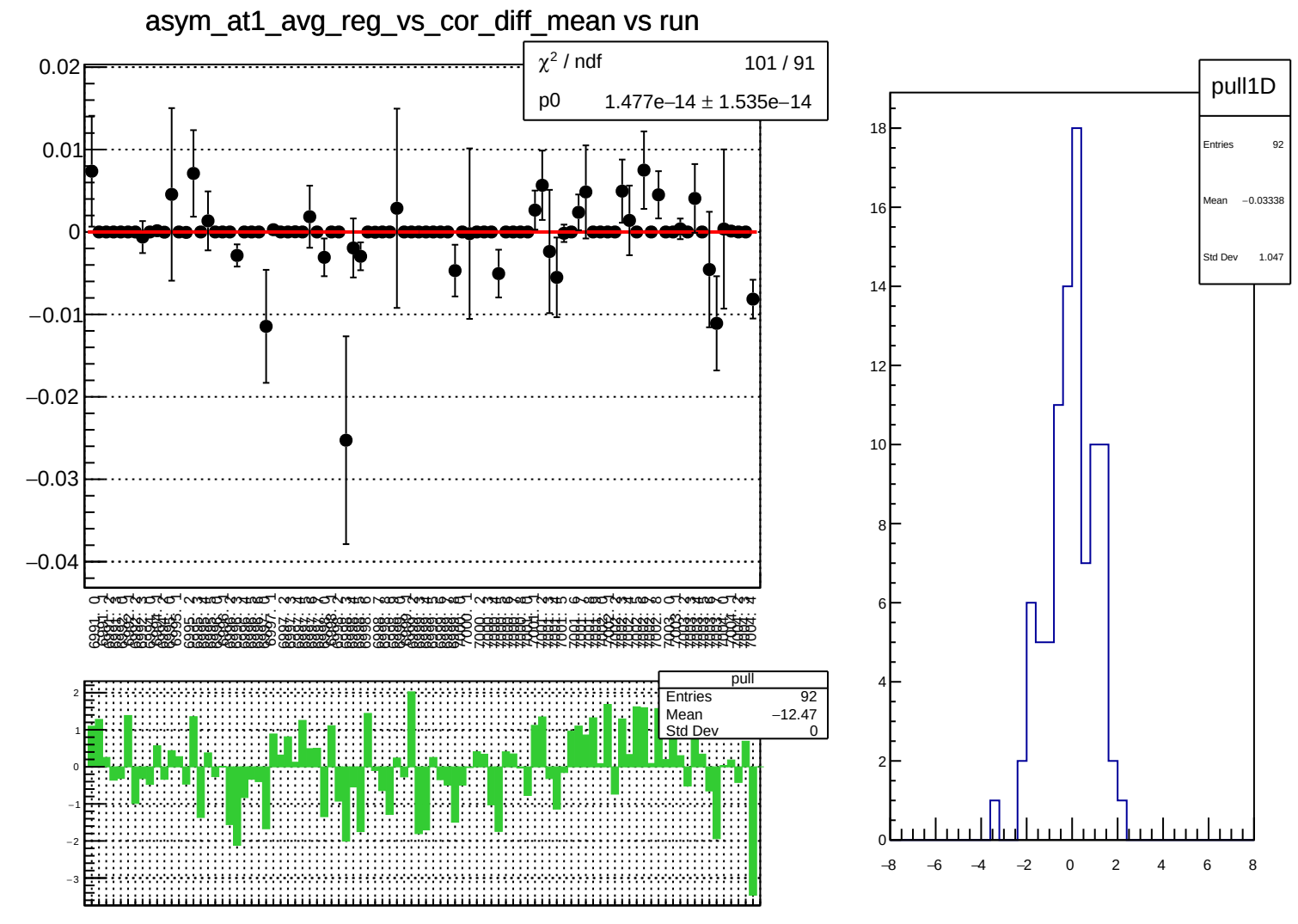

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 110.7 / 91
p0 −667 ± 638.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1767
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.002609
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

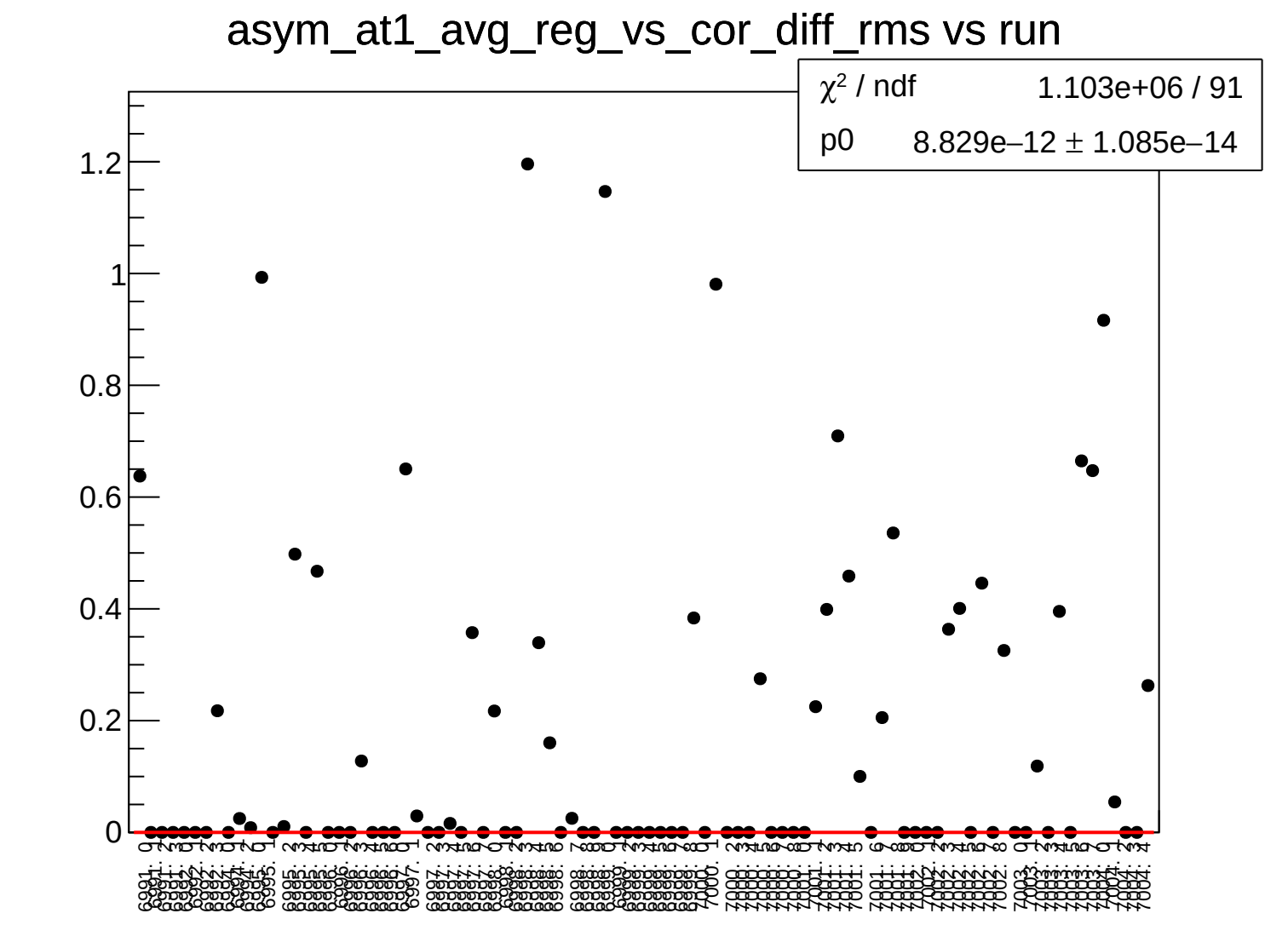

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2717 / 91
p0 599.6 ± 0.4516
680
660
640
620
600
580
560
540

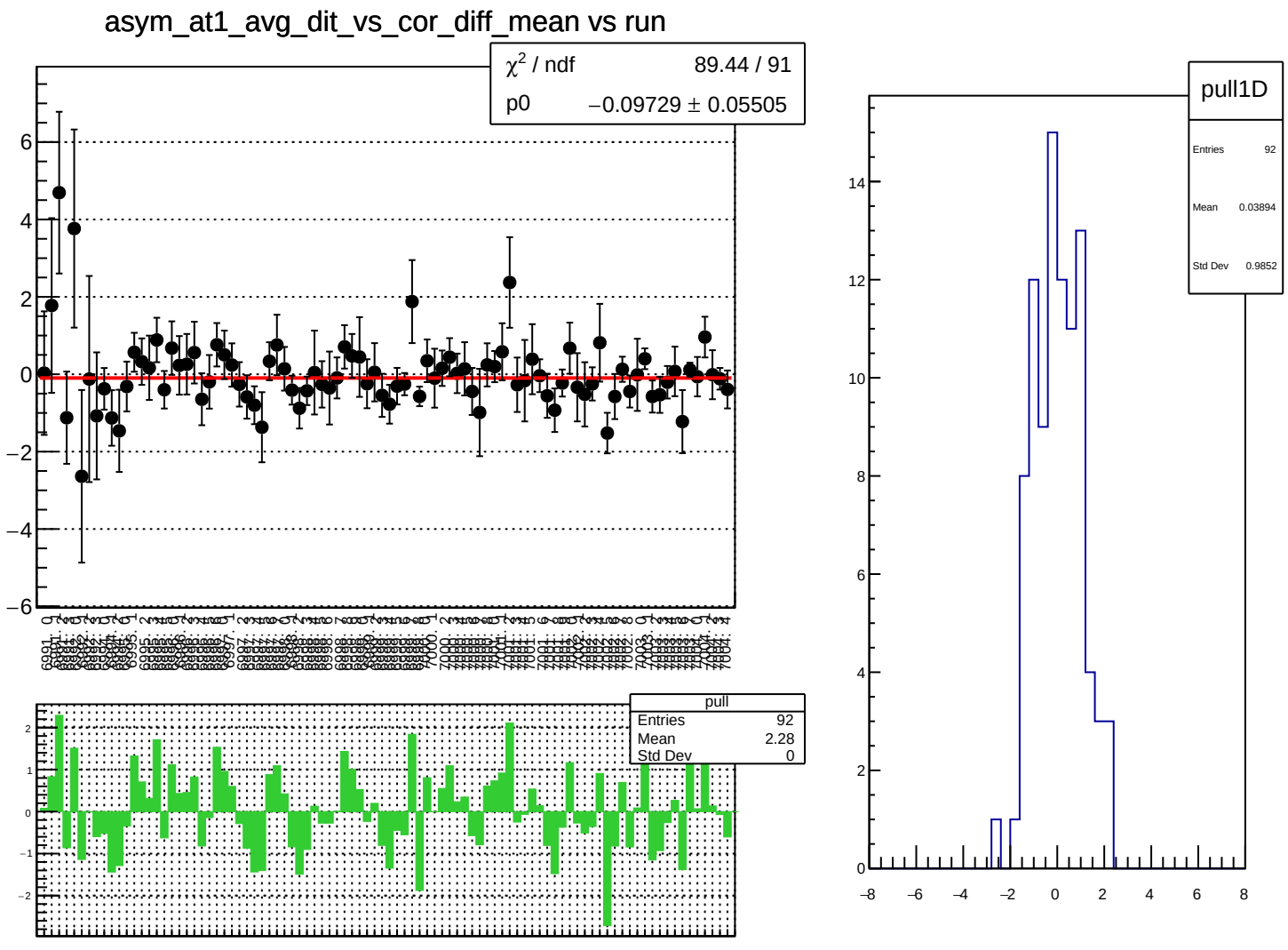

asym_at1_avg_mean vs run
χ² / ndf 86.41 / 91
p0 −3839 ± 2078
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −781.8
Std Dev 0
2
1
0
−1
−2

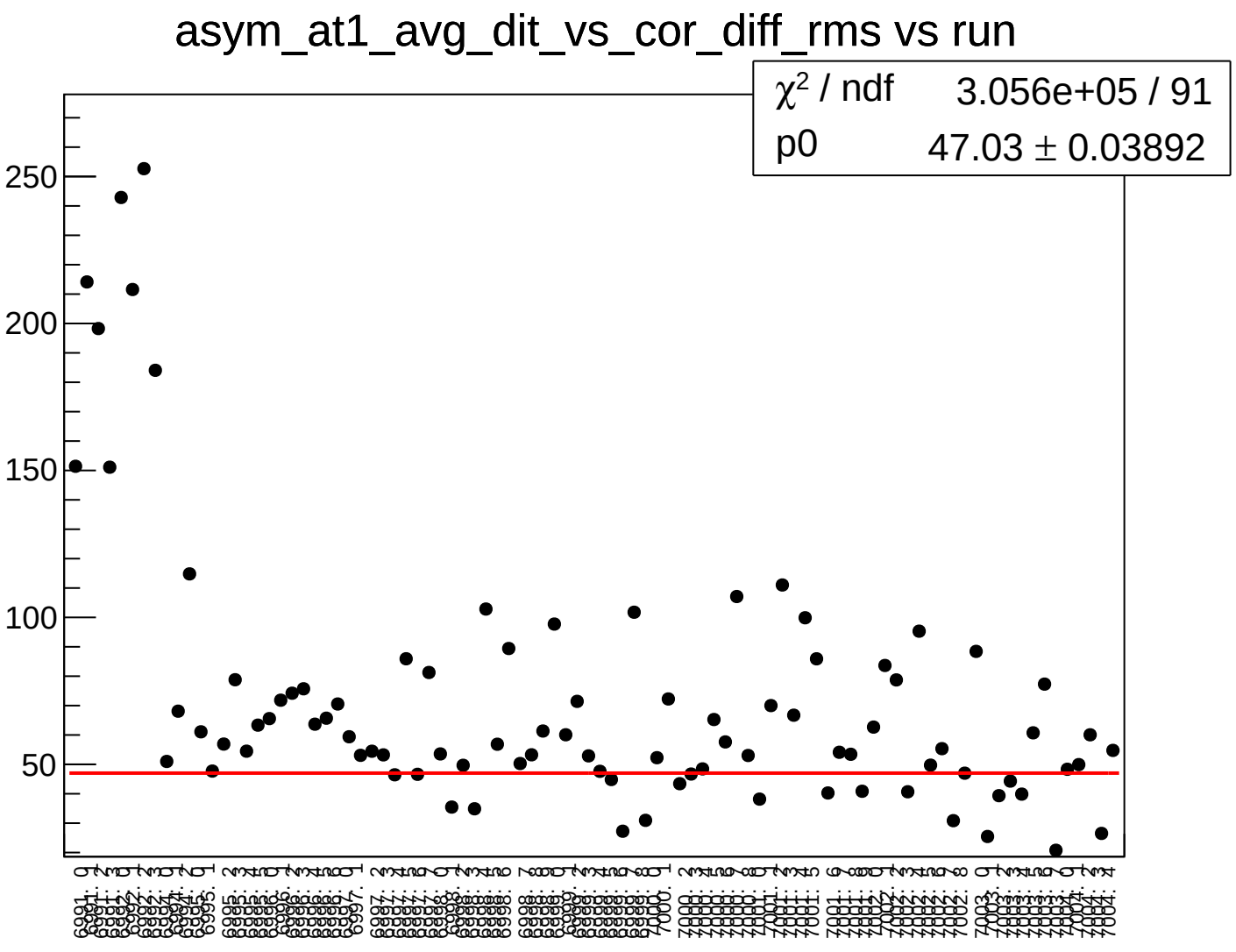

pull1D
Entries 92
Mean −0.00751
Std Dev 0.9691
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

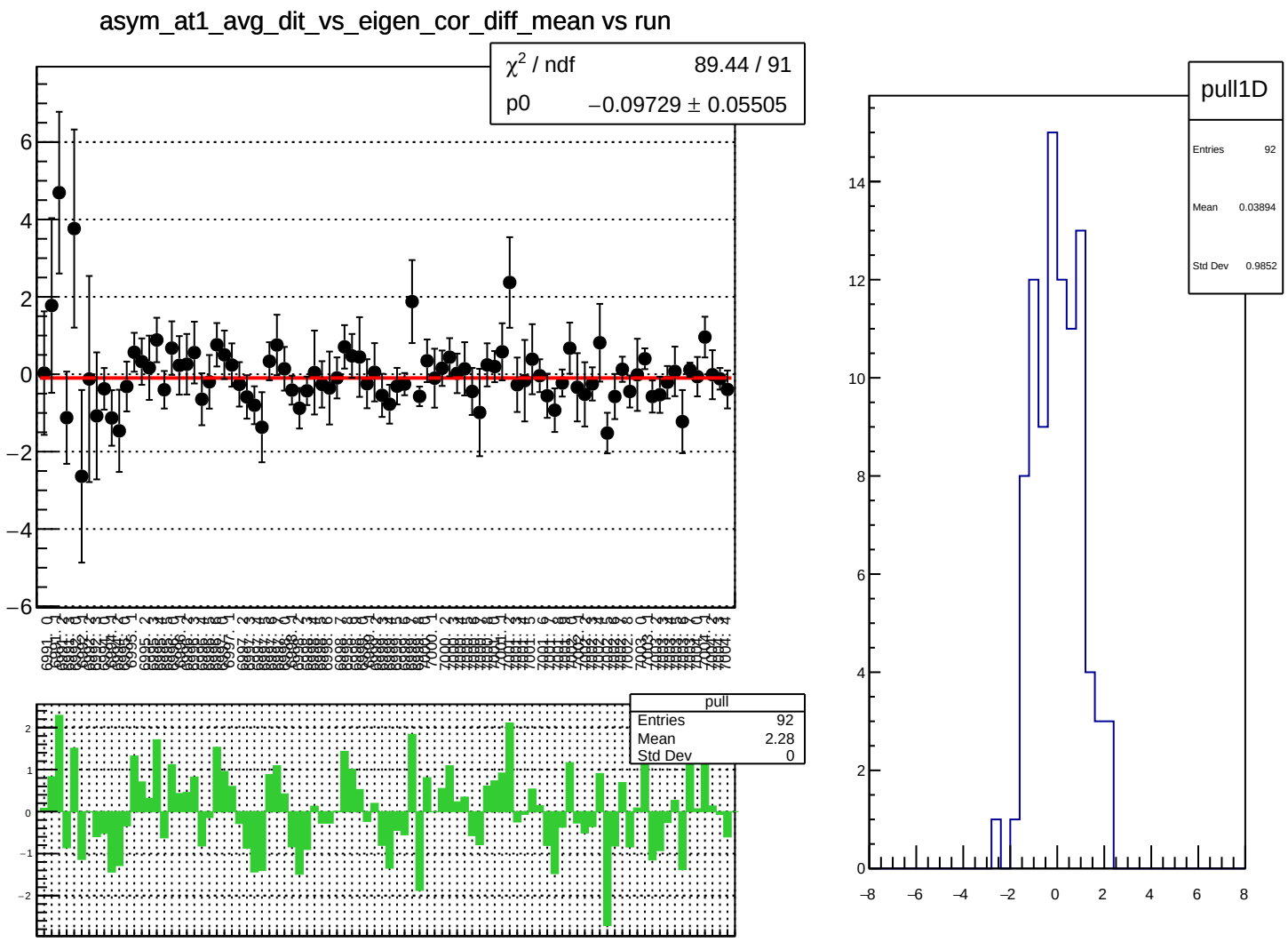

asym_at1_avg_rms vs run
χ² / ndf 287.9 / 91
p0 1952 ± 1.469
2100
2050
2000
1950
1900

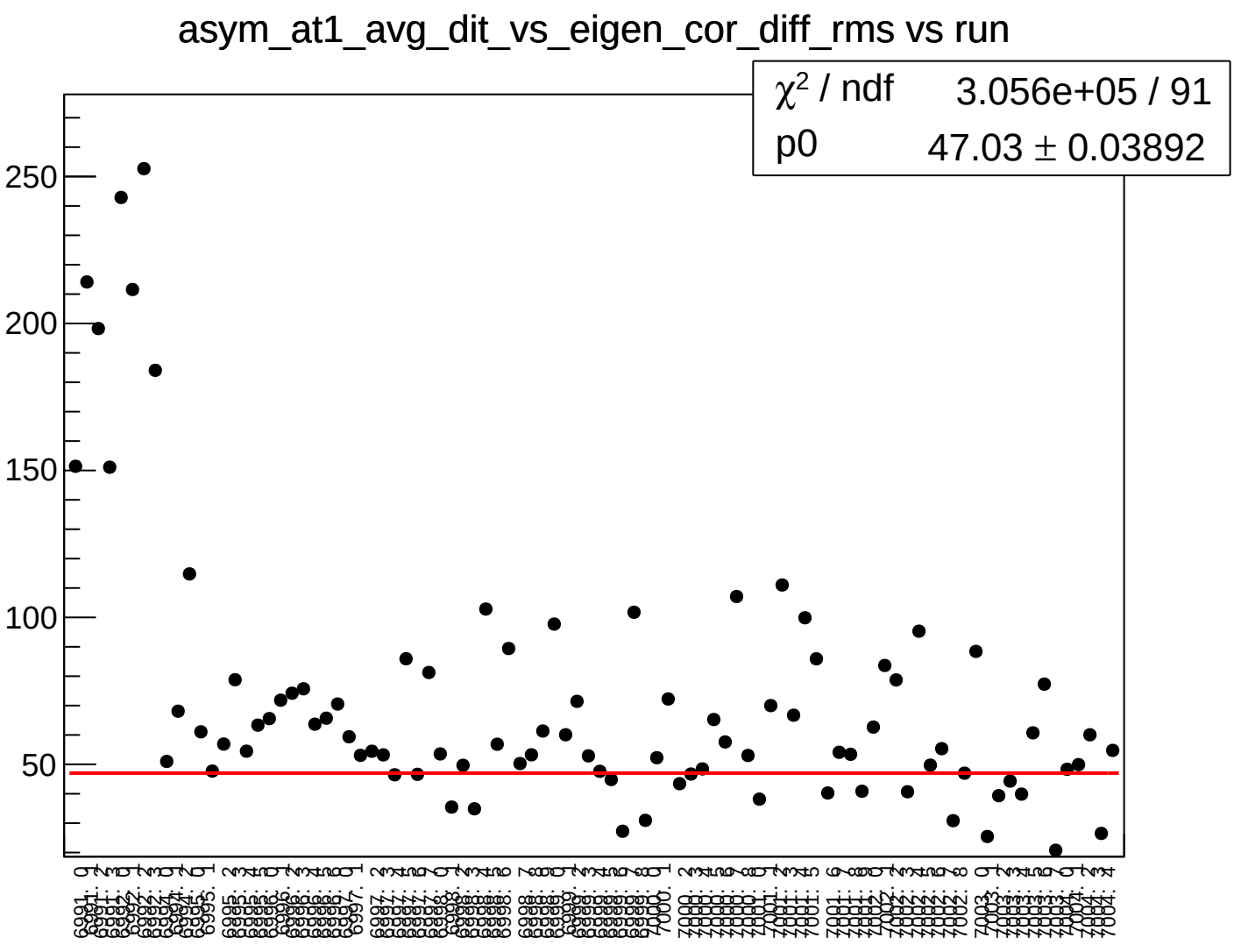

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 91
p0 1.477e−14 ± 1.535e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 92
Mean −12.47
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.03338
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

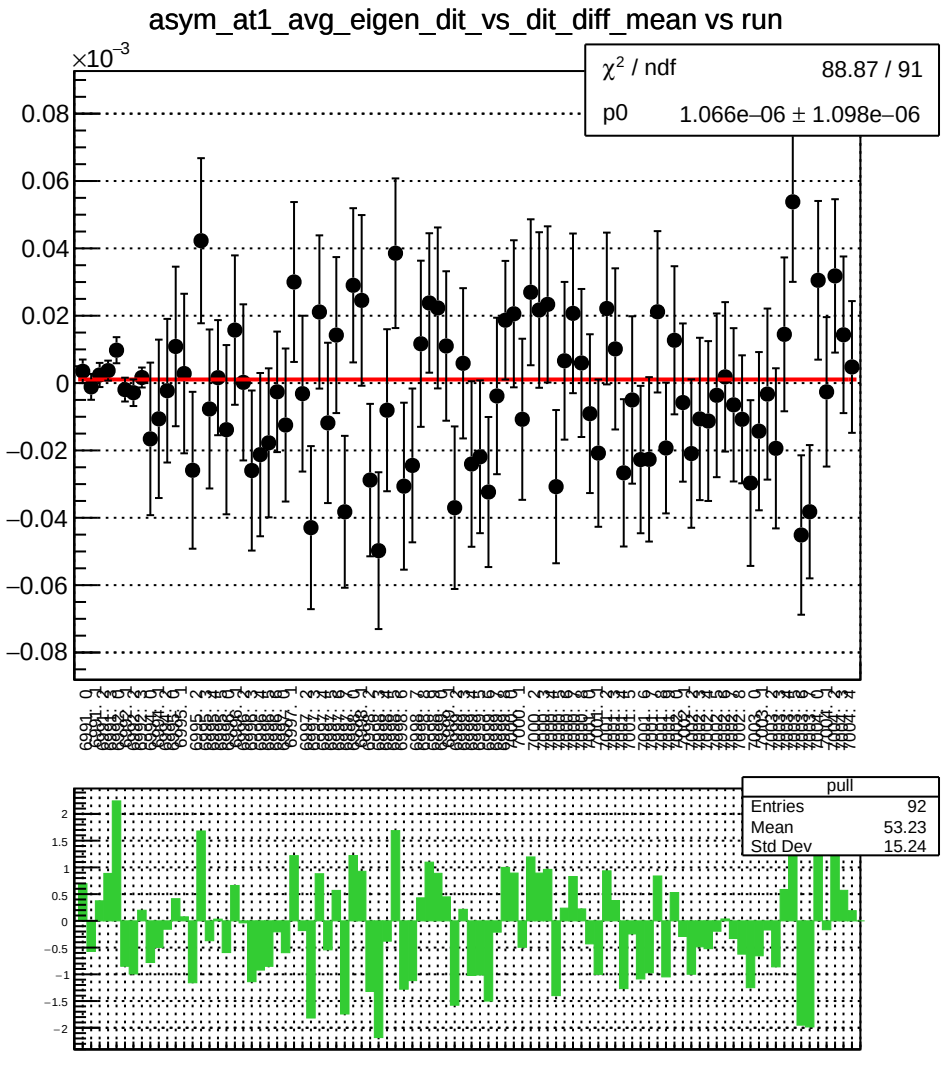

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 91
p0 8.829e−12 ± 1.085e−14
1.2
1
0.8
0.6
0.4
0.2
0

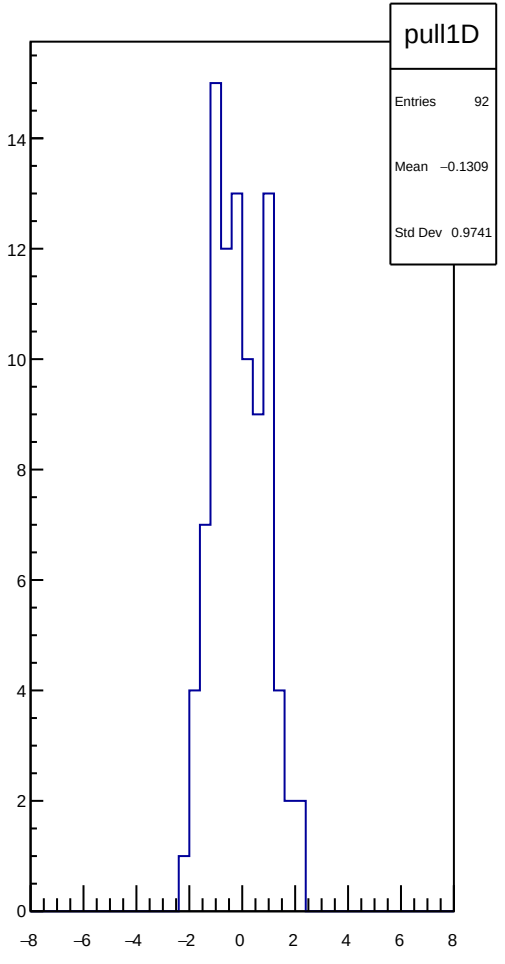

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.44 / 91
p0 −0.09729 ± 0.05505
pull
Entries 92
Mean 2.28
Std Dev 0
pull1D
Entries 92
Mean 0.03894
Std Dev 0.9852

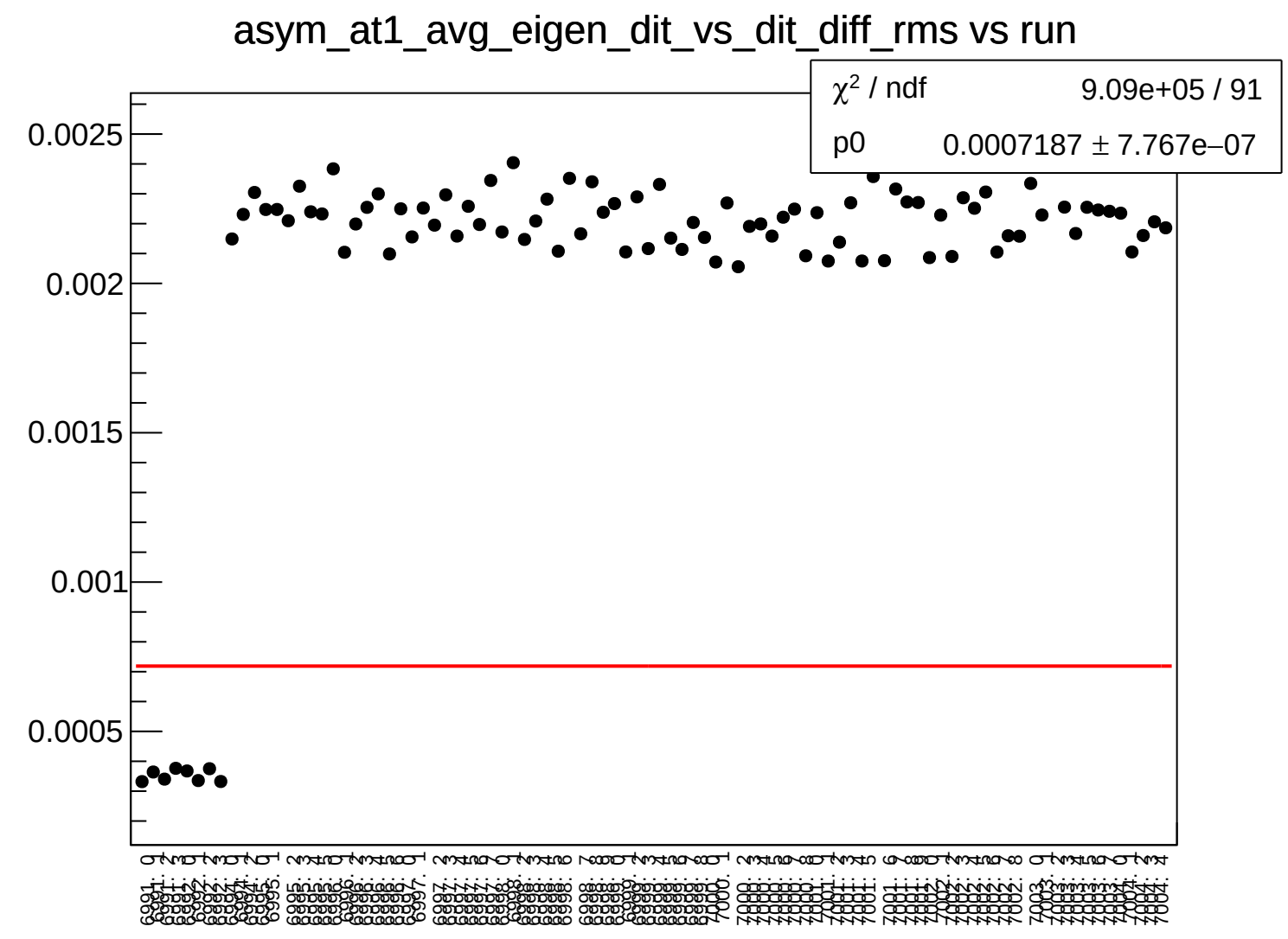

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.056e+05 / 91
p0 47.03 ± 0.03892
250
200
150
100
50

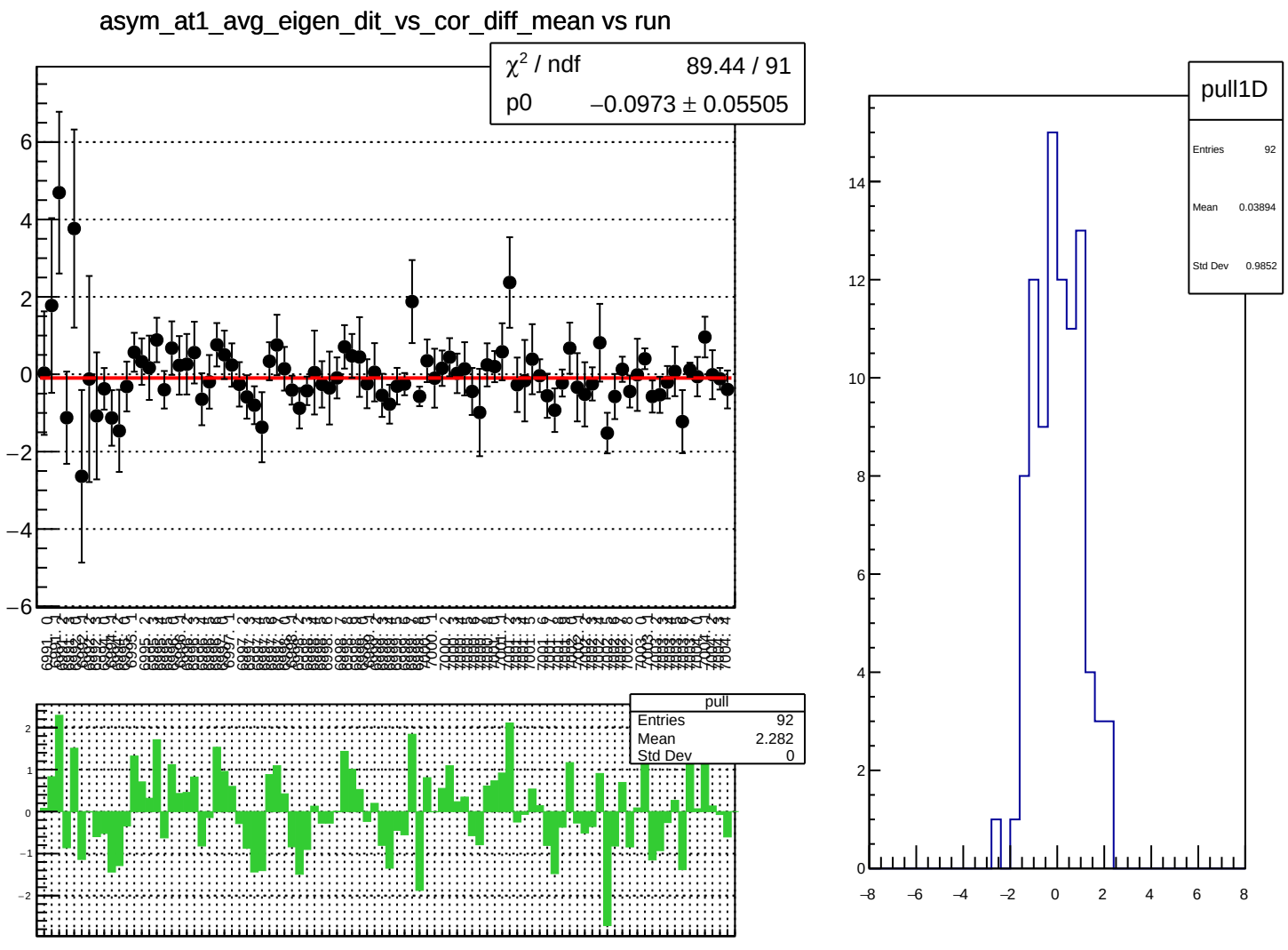

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.44 / 91
p0 −0.09729 ± 0.05505
pull
Entries 92
Mean 2.28
Std Dev 0
pull1D
Entries 92
Mean 0.03894
Std Dev 0.9852

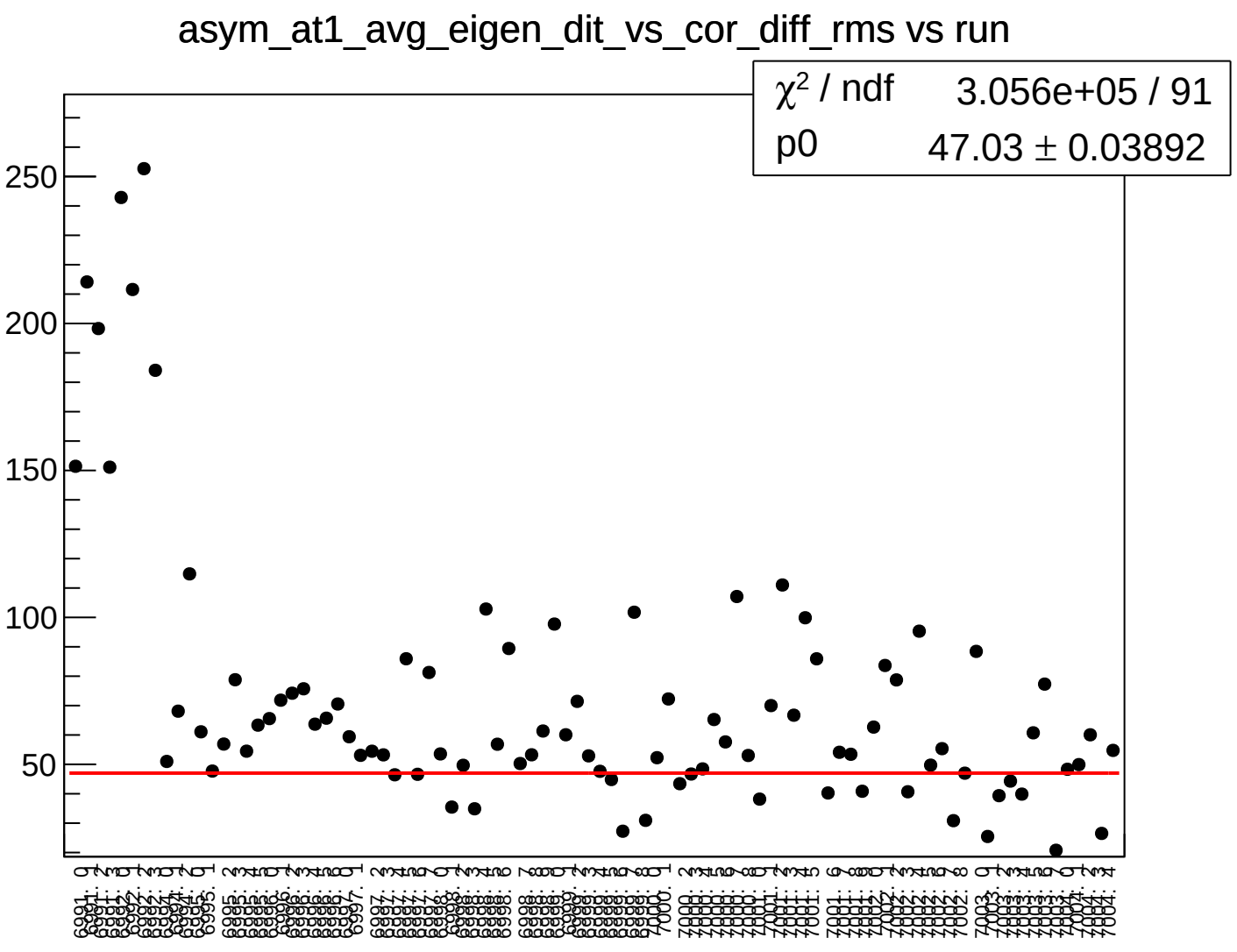

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.056e+05 / 91
p0 47.03 ± 0.03892
250
200
150
100
50

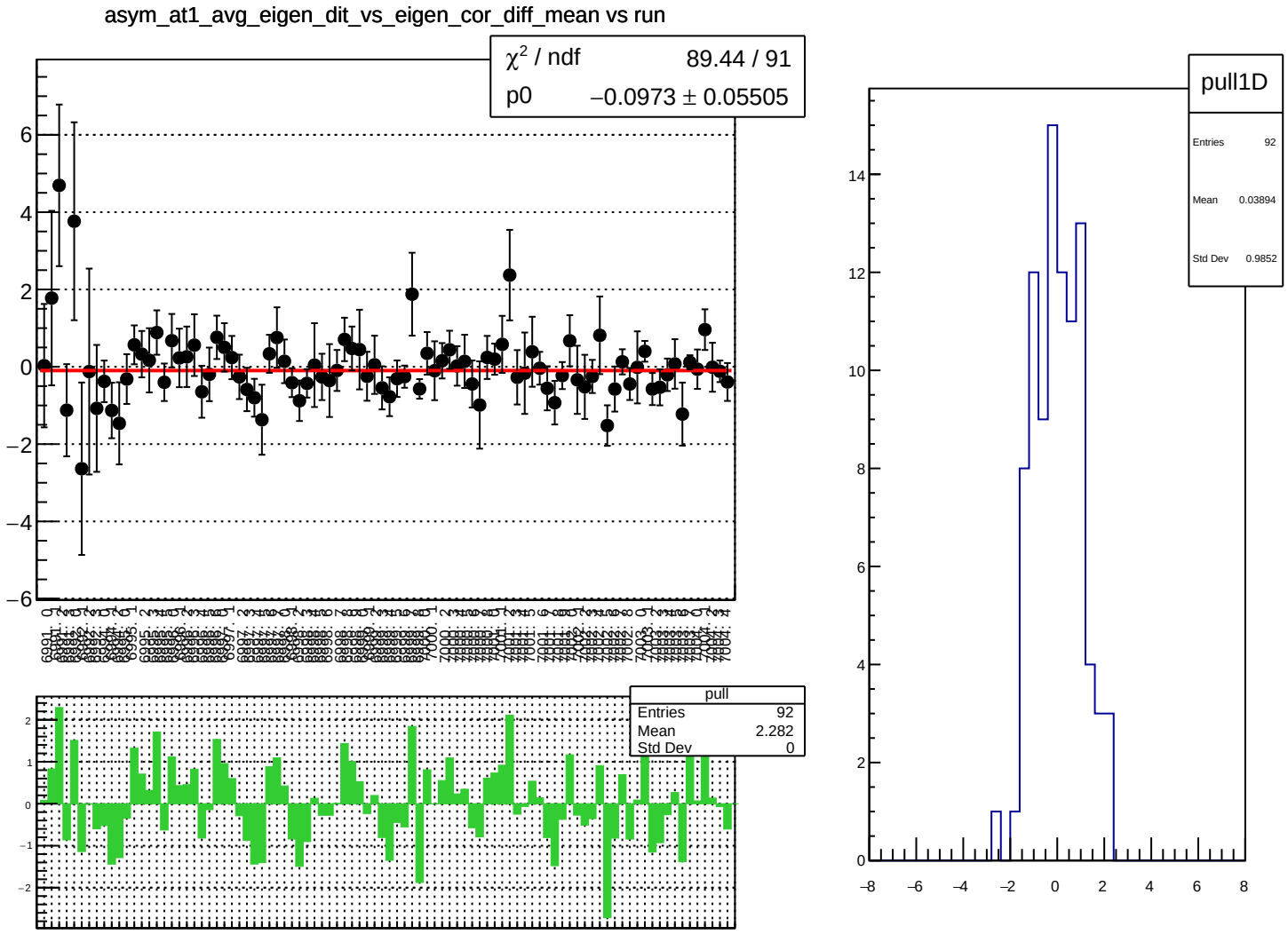

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.87 / 91
p0 1.066e−06 ± 1.098e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean 53.23
Std Dev 15.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

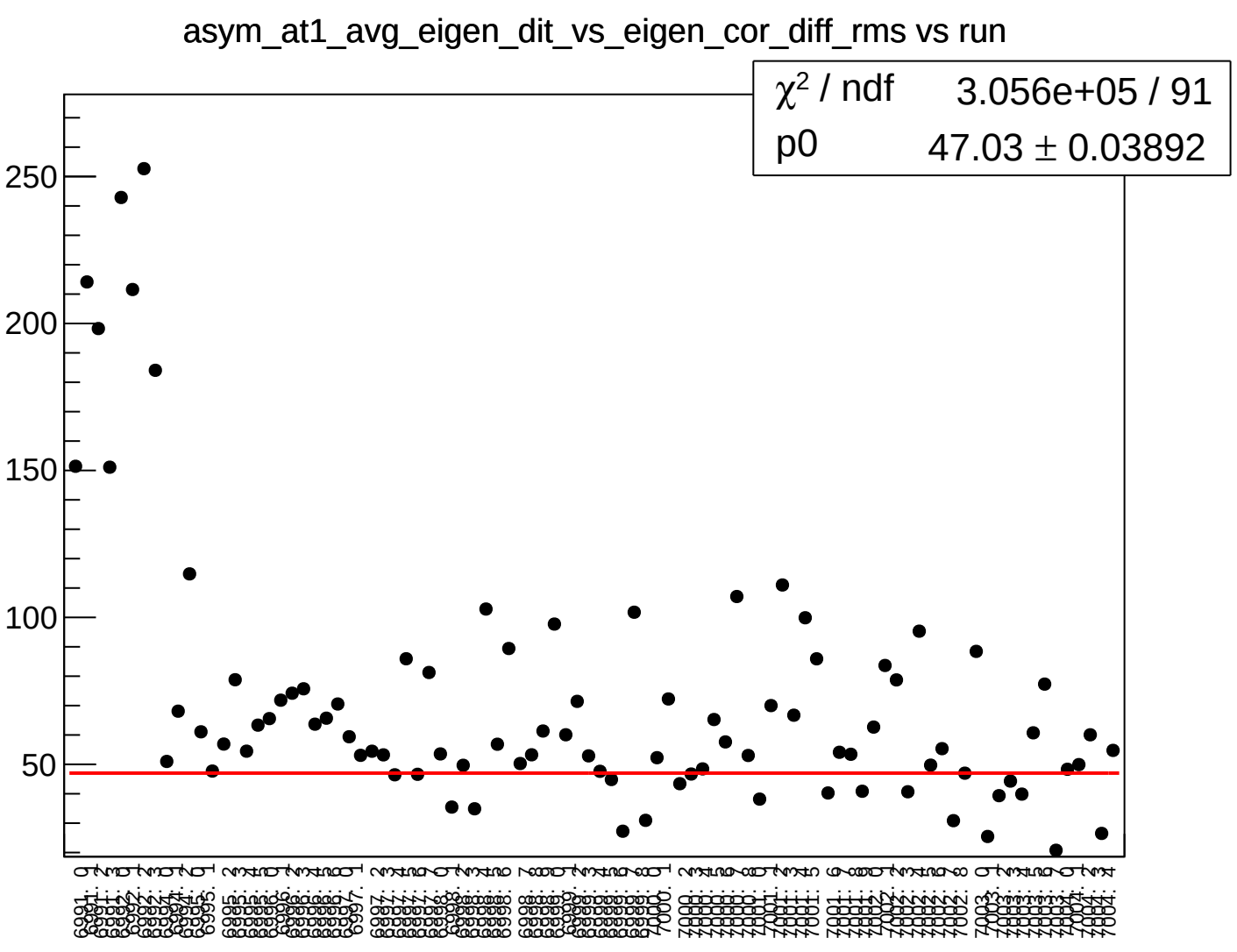

pull1D
Entries 92
Mean −0.1309
Std Dev 0.9741
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

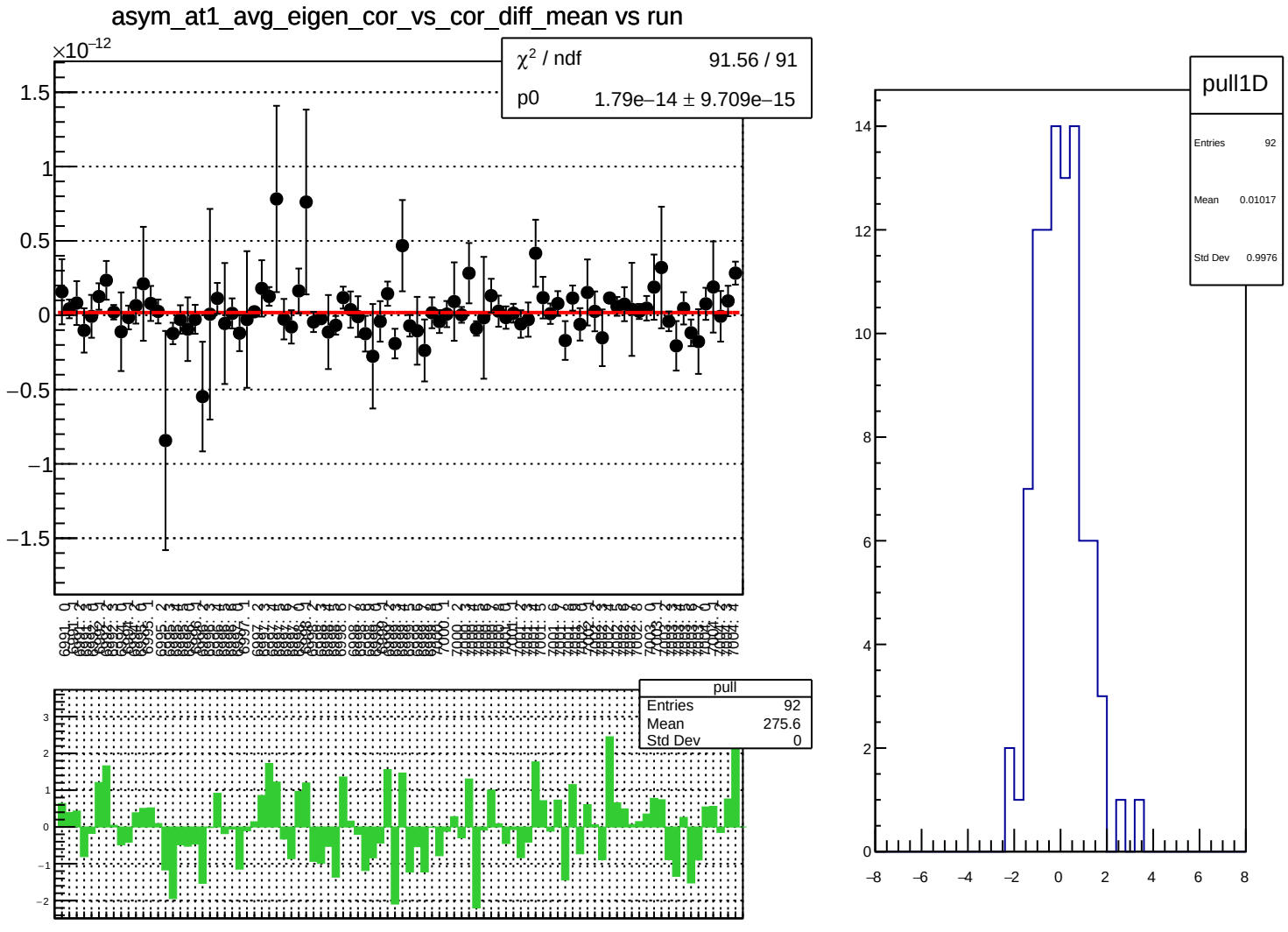

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.09e+05 / 91
p0 0.0007187 ± 7.767e−07
0.0025
0.002
0.0015
0.001
0.0005

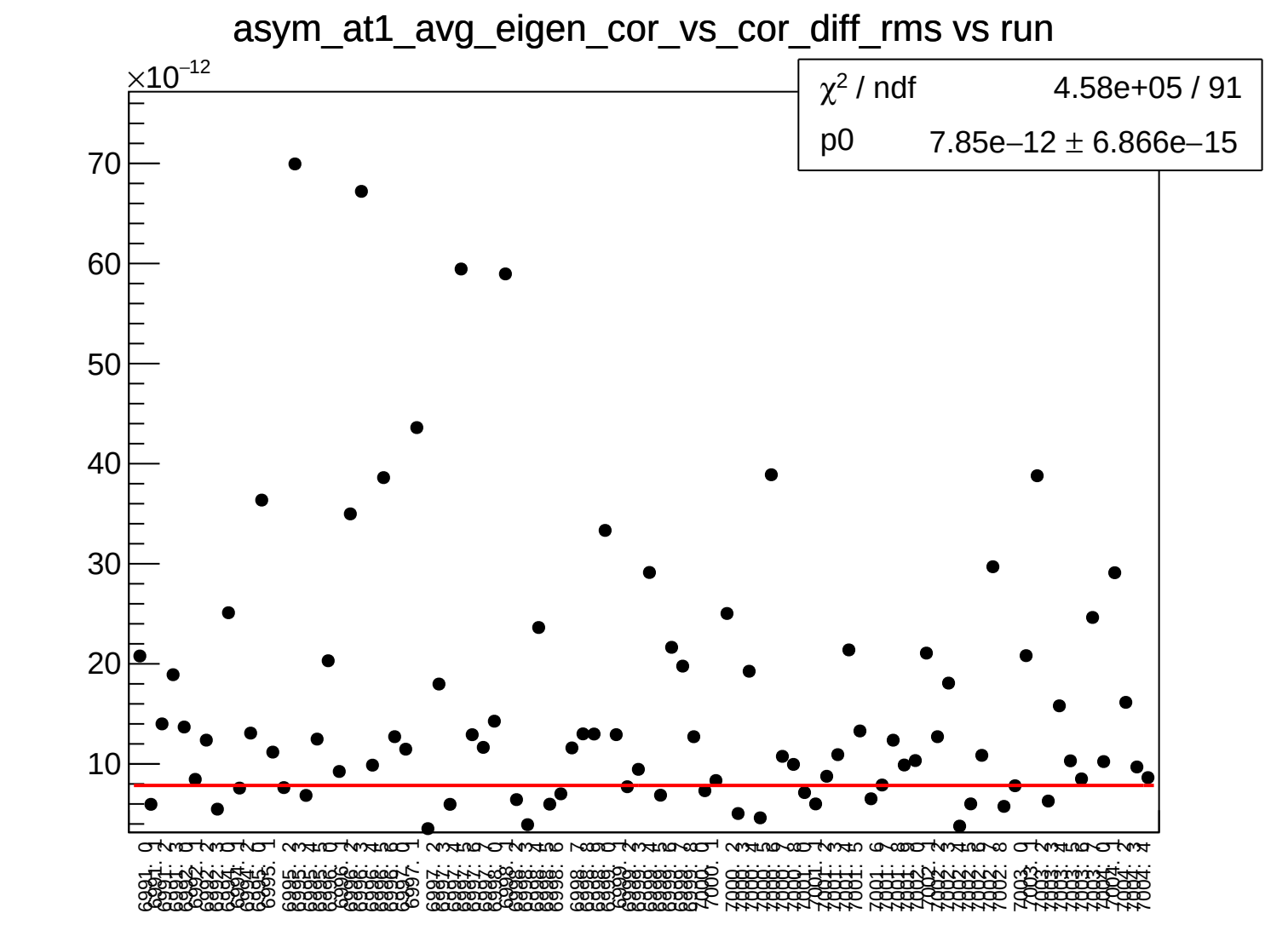

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.44 / 91
p0 −0.0973 ± 0.05505
pull
Entries 92
Mean 2.282
Std Dev 0
pull1D
Entries 92
Mean 0.03894
Std Dev 0.9852

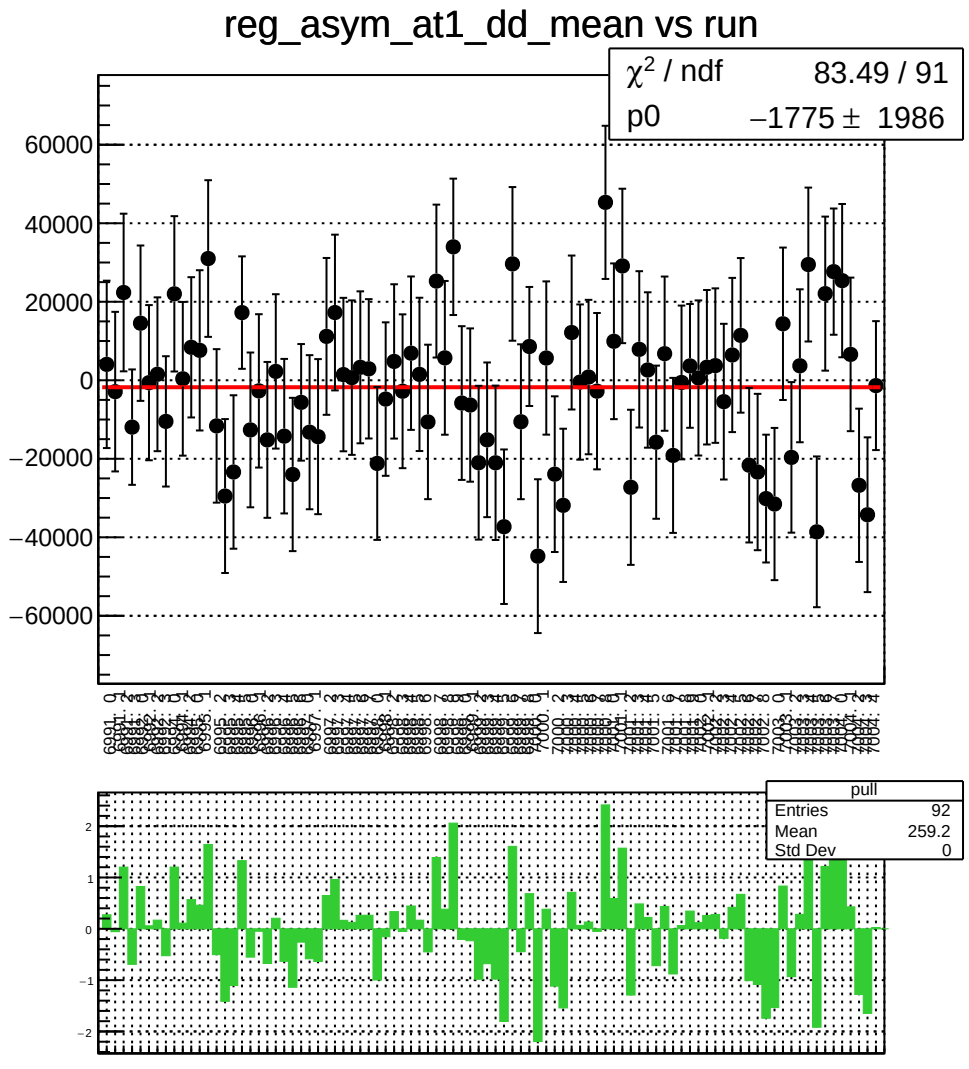

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.056e+05 / 91
p0 47.03 ± 0.03892
250
200
150
100
50

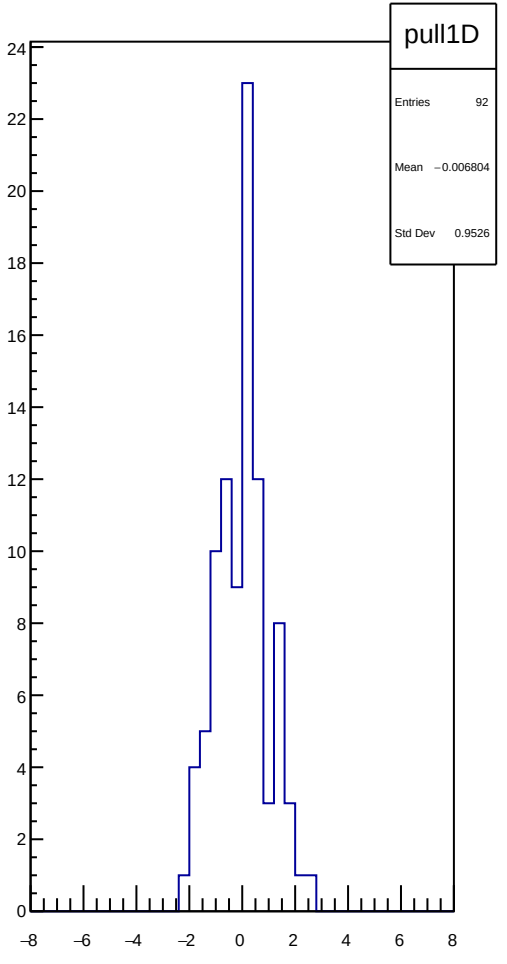

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.44 / 91
p0 −0.0973 ± 0.05505
pull
Entries 92
Mean 2.282
Std Dev 0
pull1D
Entries 92
Mean 0.03894
Std Dev 0.9852

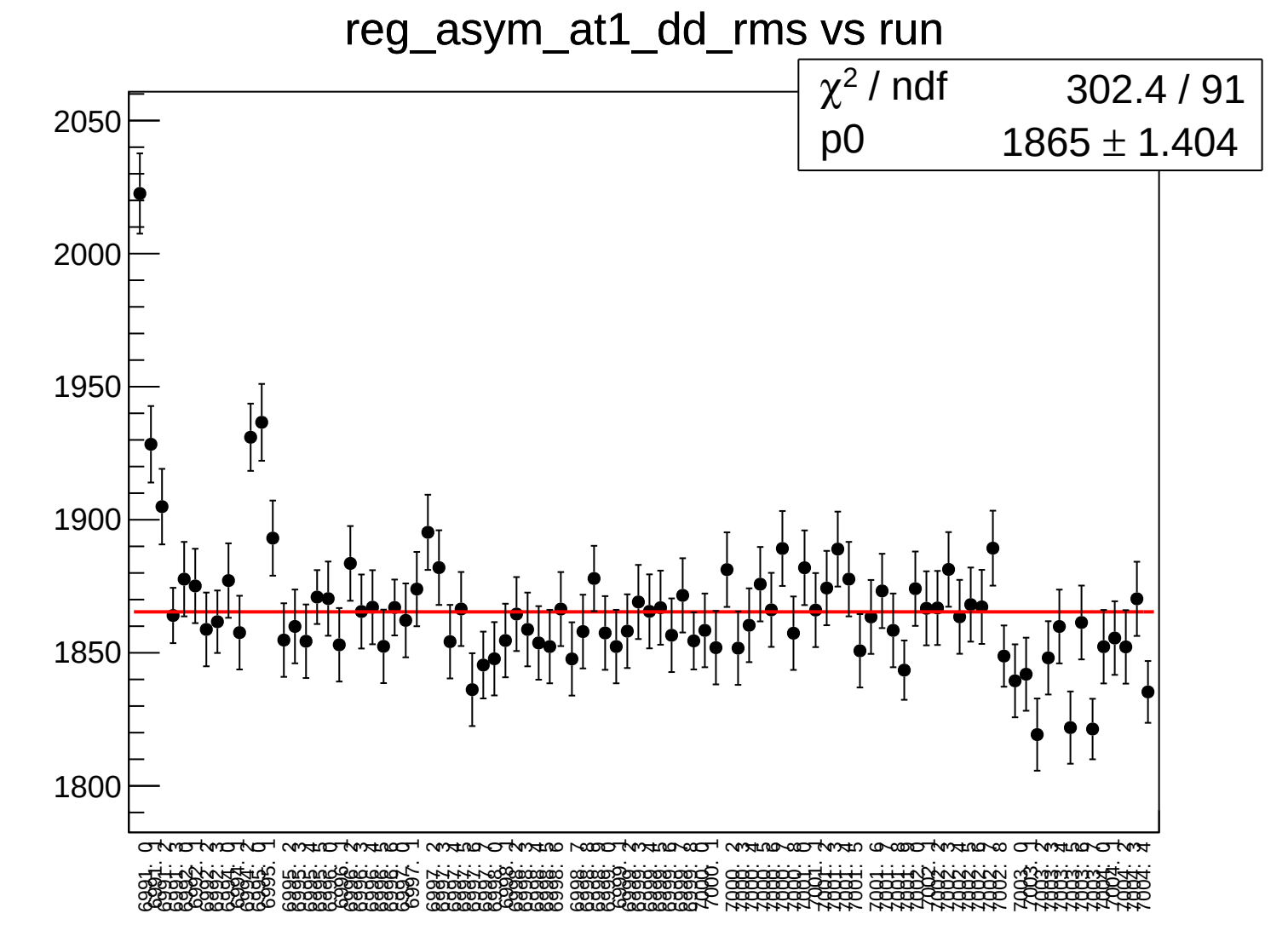

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.056e+05 / 91
p0 47.03 ± 0.03892
250
200
150
100
50

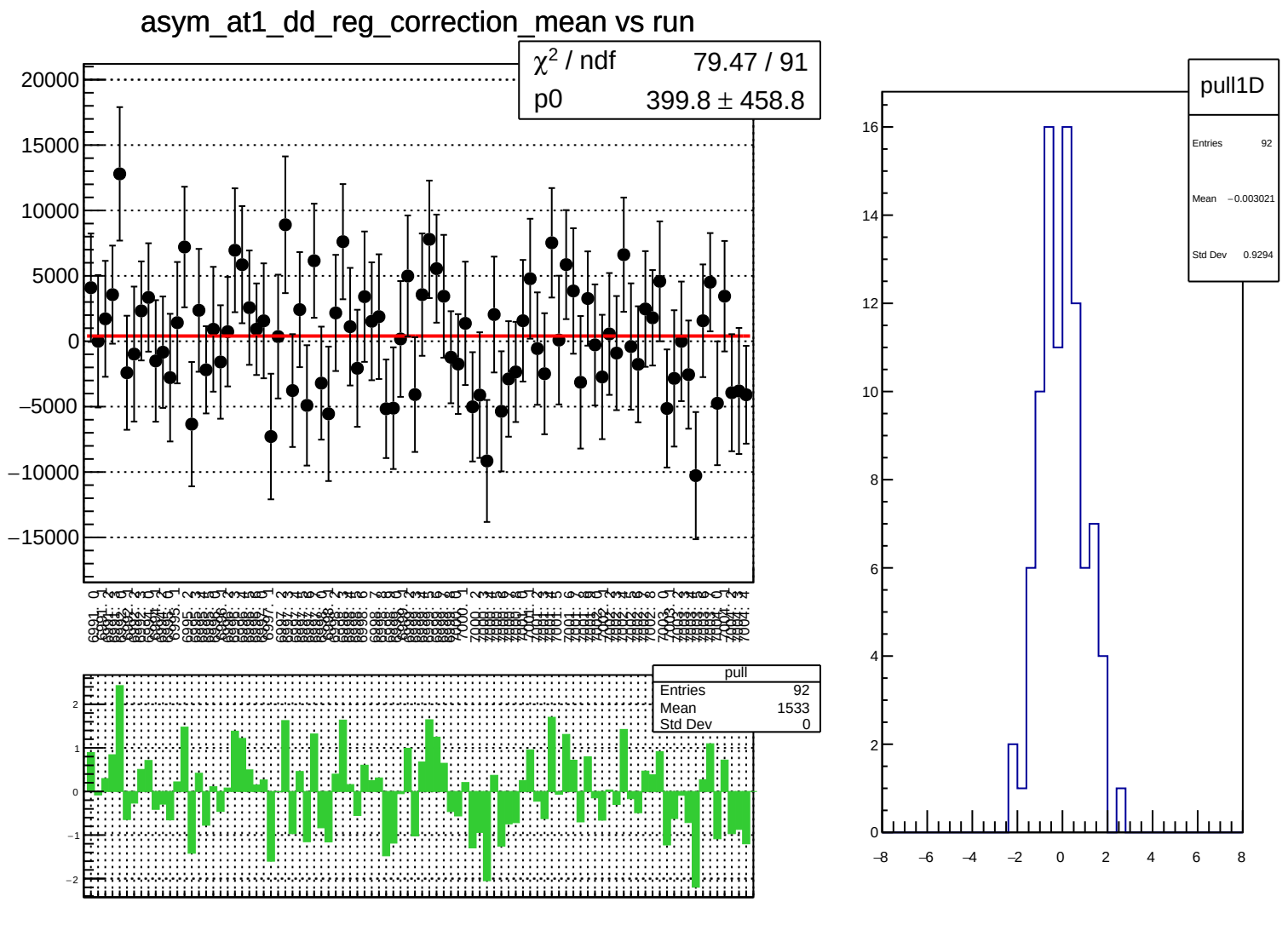

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.56 / 91
p0 1.79e−14 ± 9.709e−15
pull
Entries 92
Mean 275.6
Std Dev 0
pull1D
Entries 92
Mean 0.01017
Std Dev 0.9976

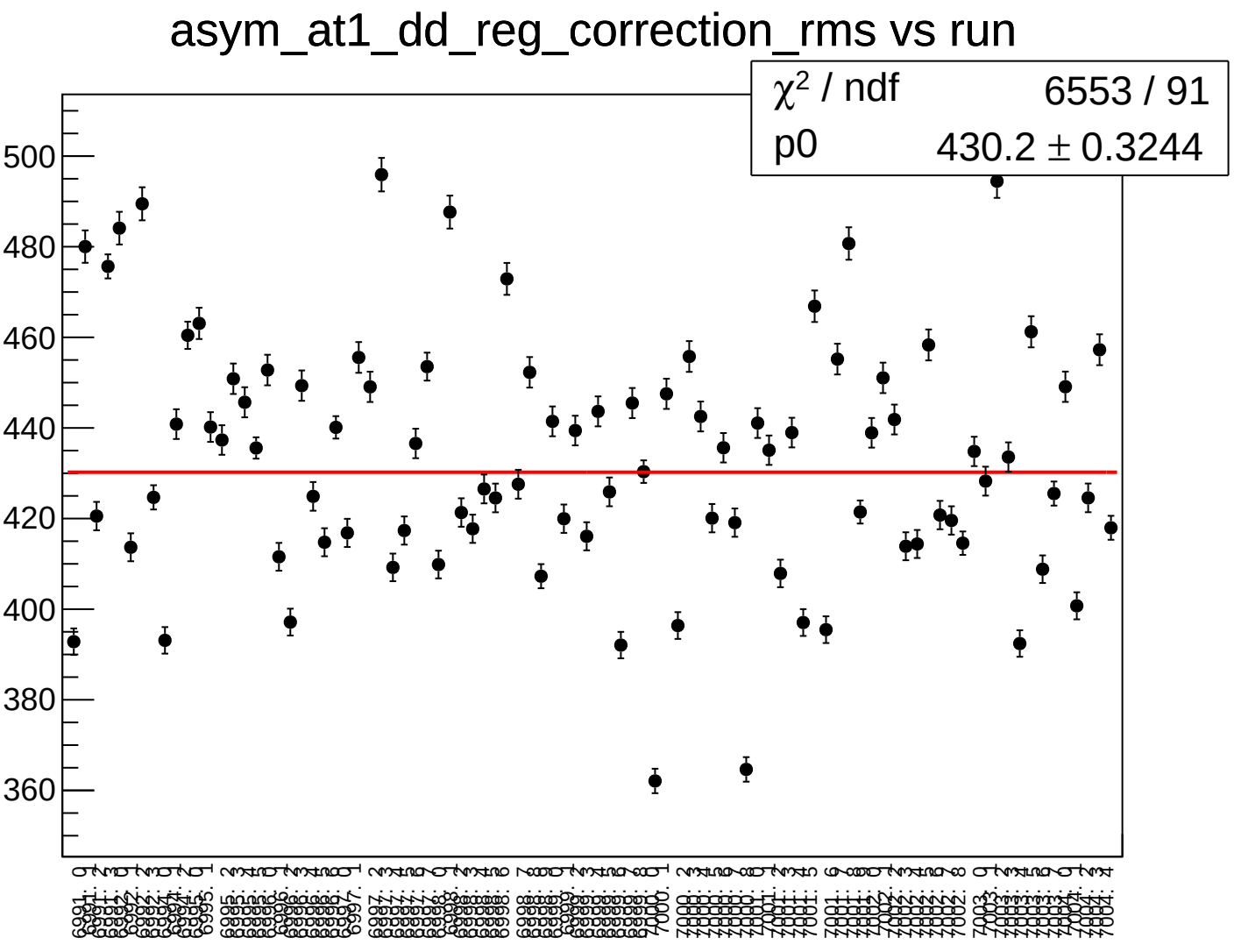

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.58e+05 / 91
p0 7.85e−12 ± 6.866e−15
70
60
50
40
30
20
10

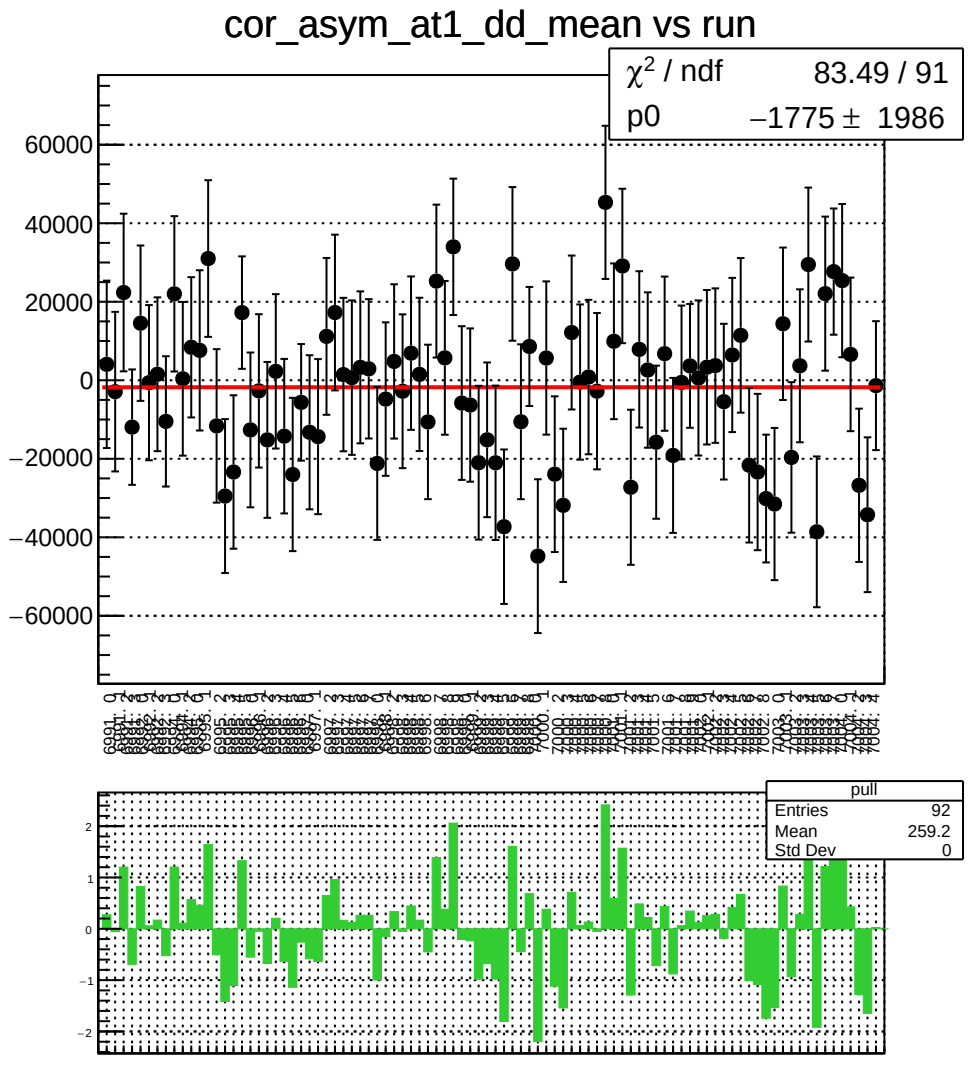

reg_asym_at1_dd_mean vs run
χ² / ndf 83.49 / 91
p0 −1775 ± 1986
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 259.2
Std Dev 0
2
1
0
−1
−2

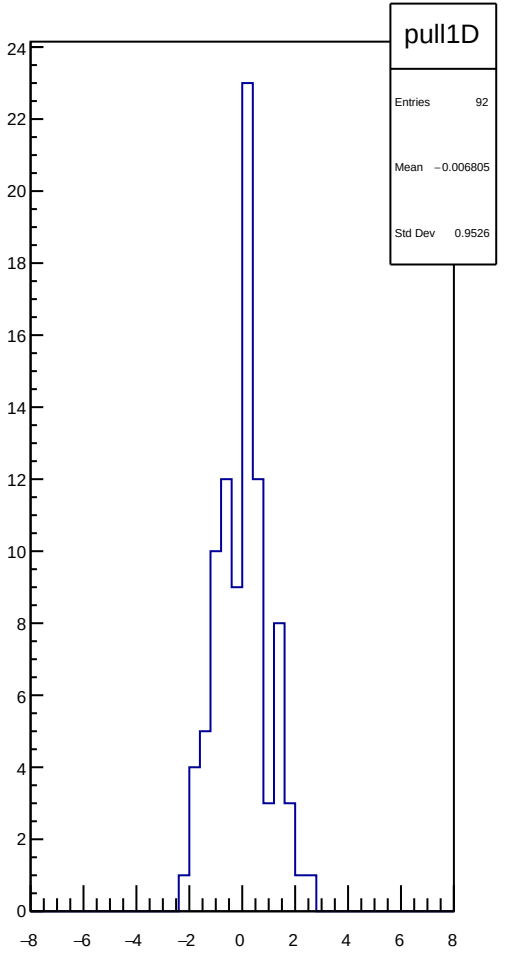

pull1D
Entries 92
Mean −0.006804
Std Dev 0.9526
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

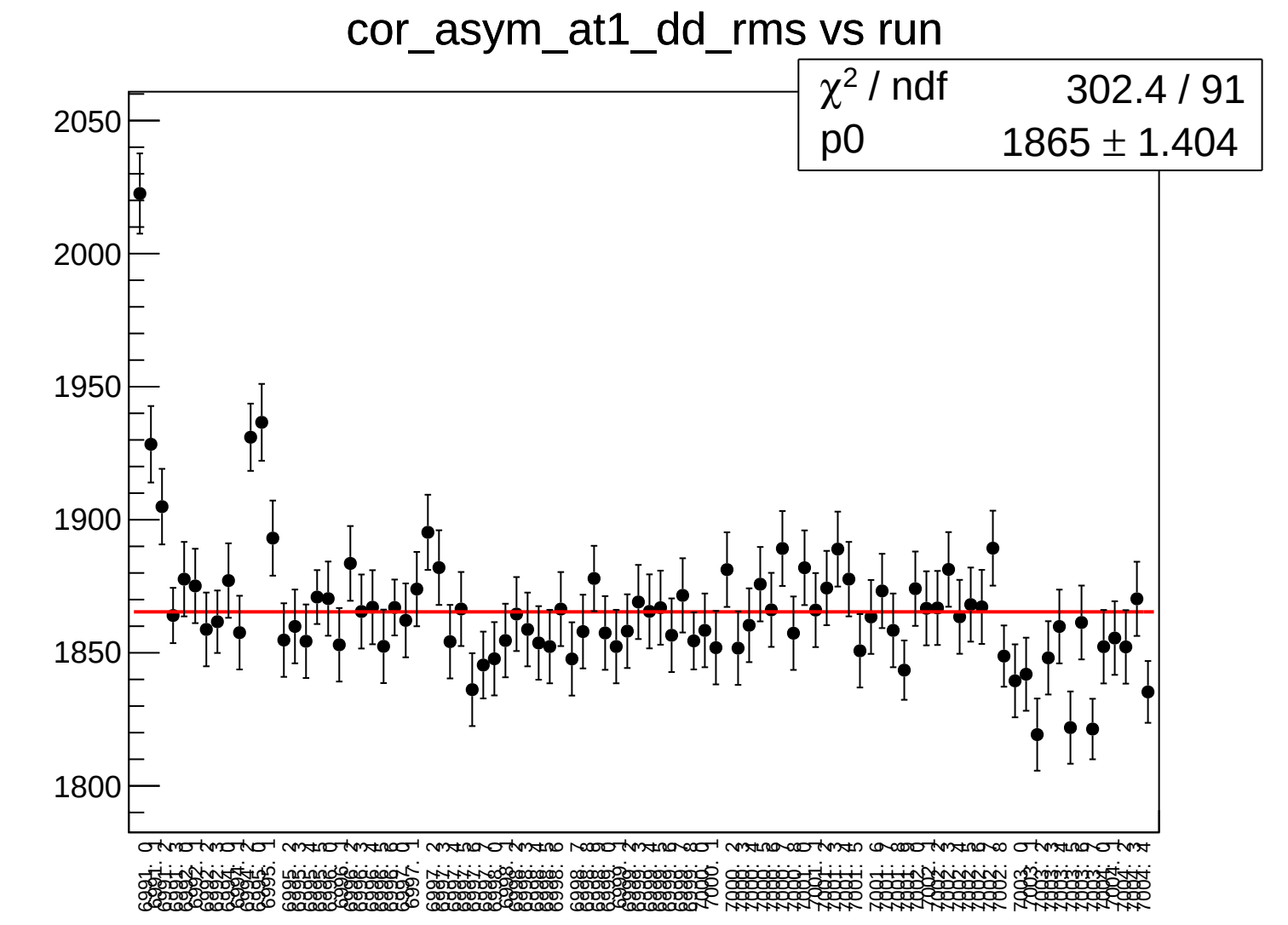

reg_asym_at1_dd_rms vs run
χ² / ndf 302.4 / 91
p0 1865 ± 1.404
2050
2000
1950
1900
1850
1800

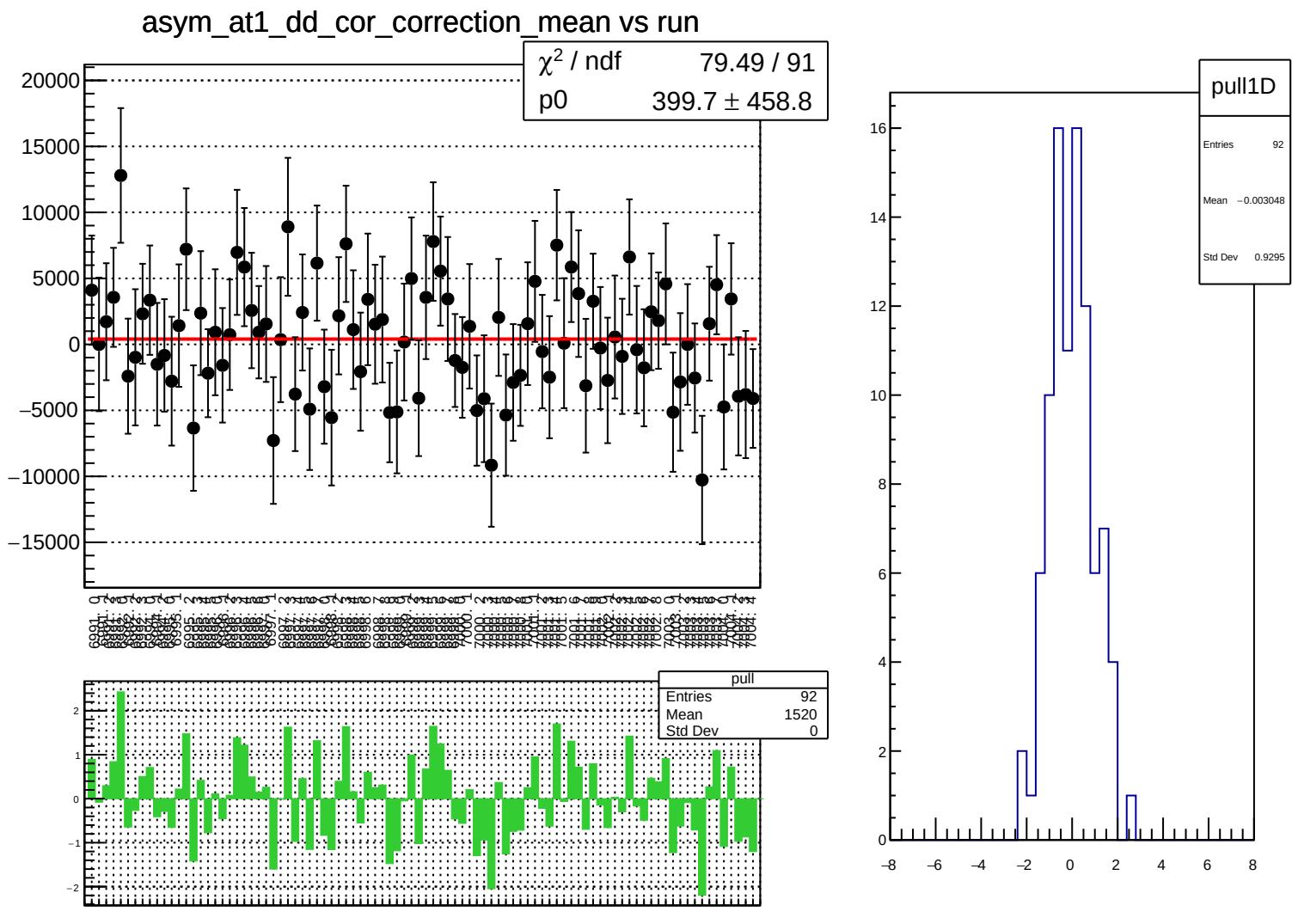

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 79.47 / 91
p0 399.8 ± 458.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1533
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003021
Std Dev 0.9294
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

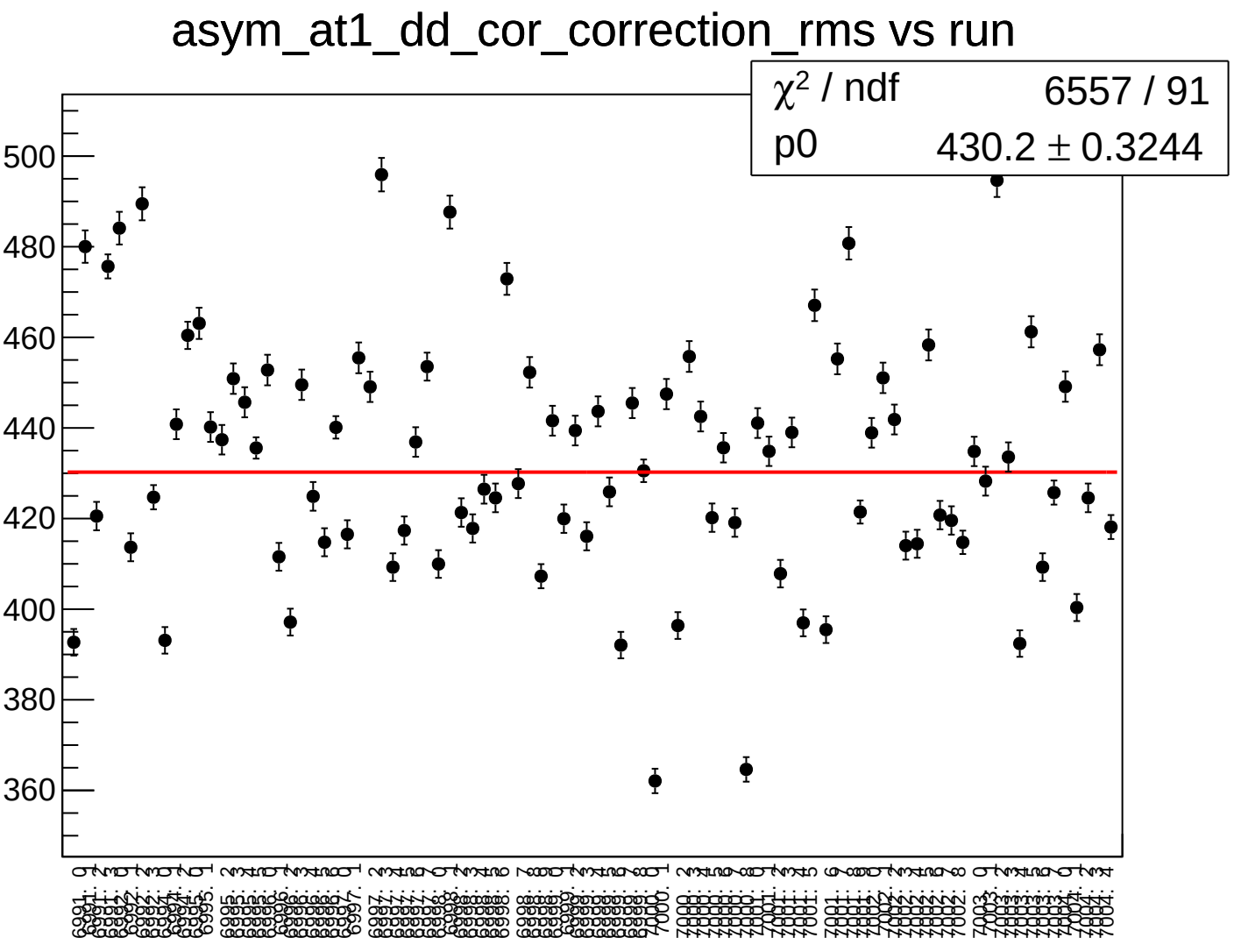

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 6553 / 91
p0 430.2 ± 0.3244
500
480
460
440
420
400
380
360

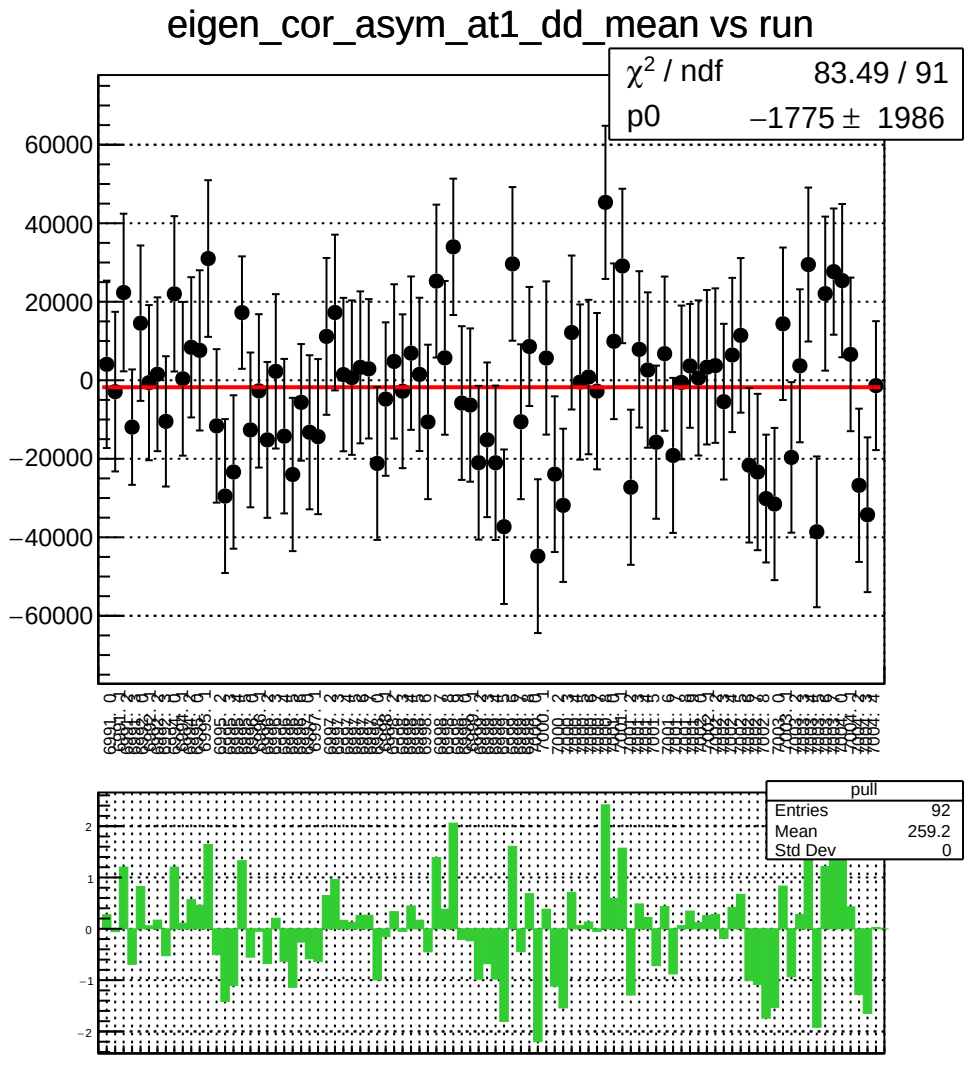

cor_asym_at1_dd_mean vs run
χ² / ndf 83.49 / 91
p0 −1775 ± 1986
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 259.2
Std Dev 0
2
1
0
−1
−2

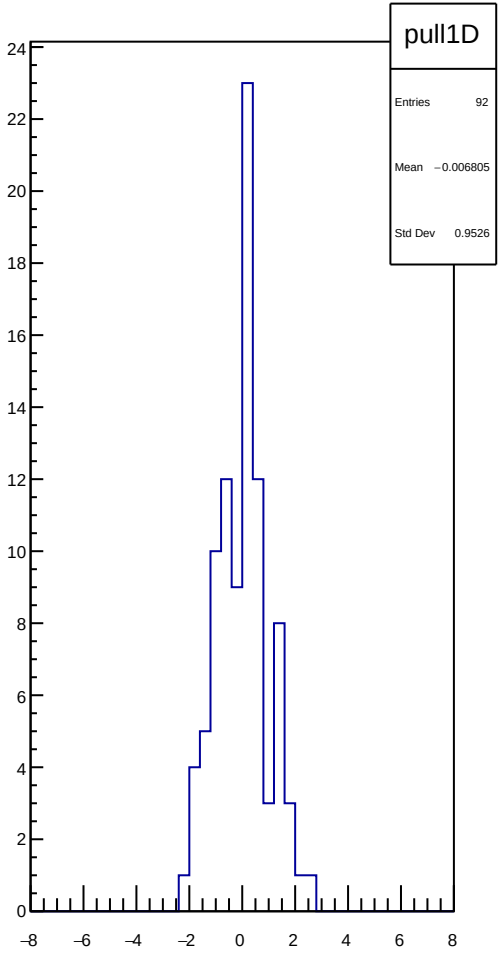

pull1D
Entries 92
Mean −0.006805
Std Dev 0.9526
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

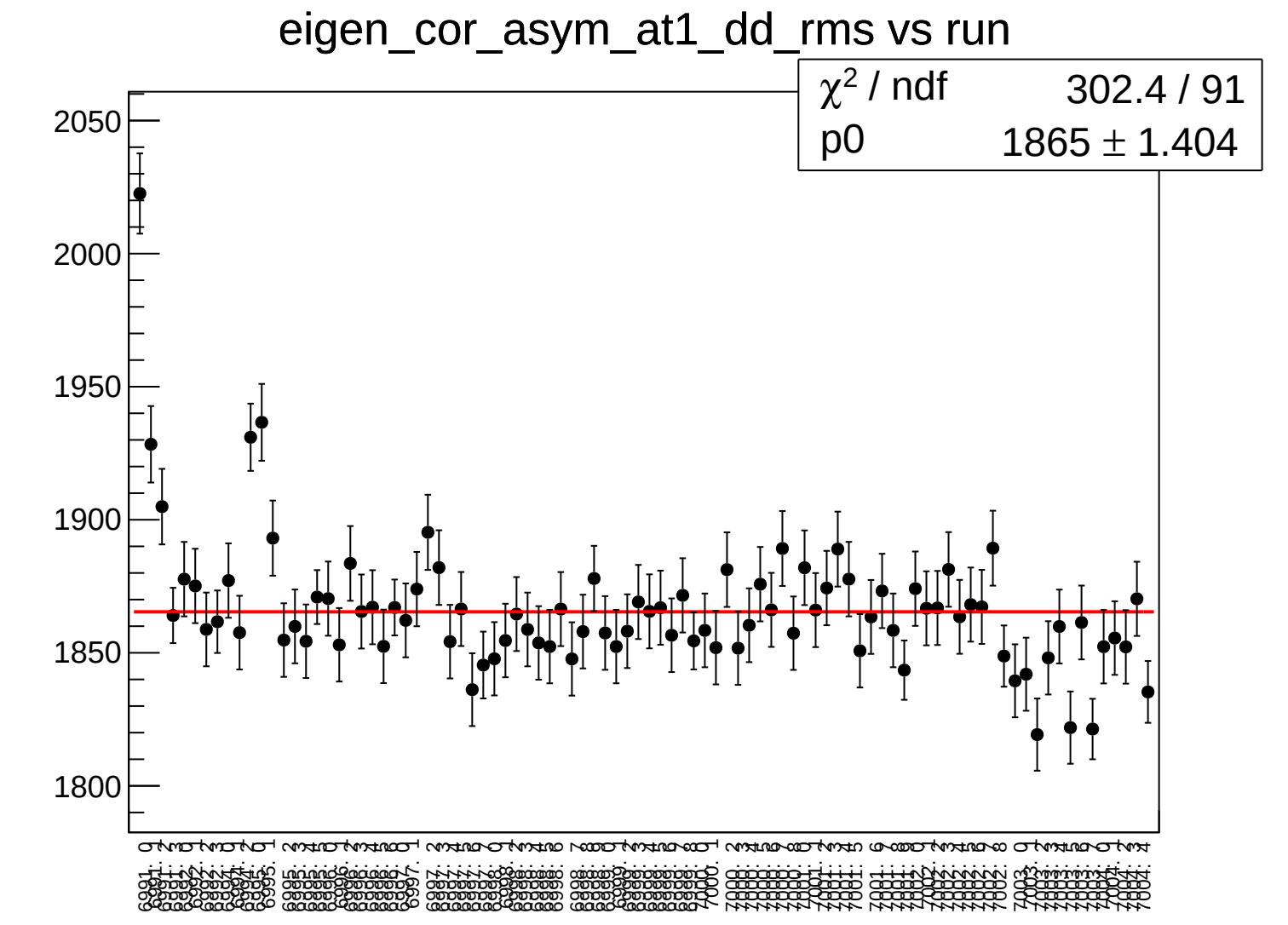

cor_asym_at1_dd_rms vs run
χ² / ndf 302.4 / 91
p0 1865 ± 1.404
2050
2000
1950
1900
1850
1800

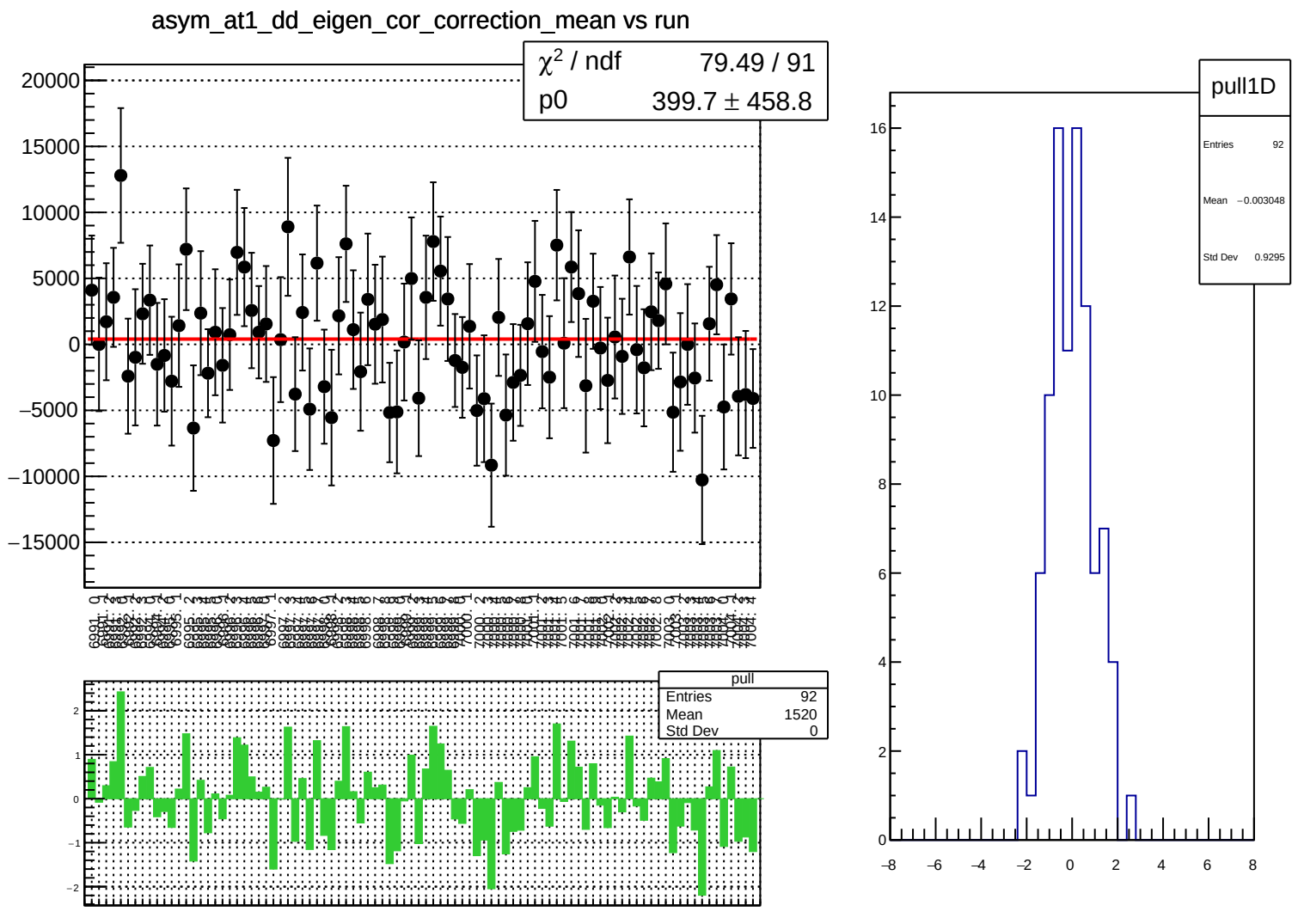

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 79.49 / 91
p0 399.7 ± 458.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1520
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003048
Std Dev 0.9295
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

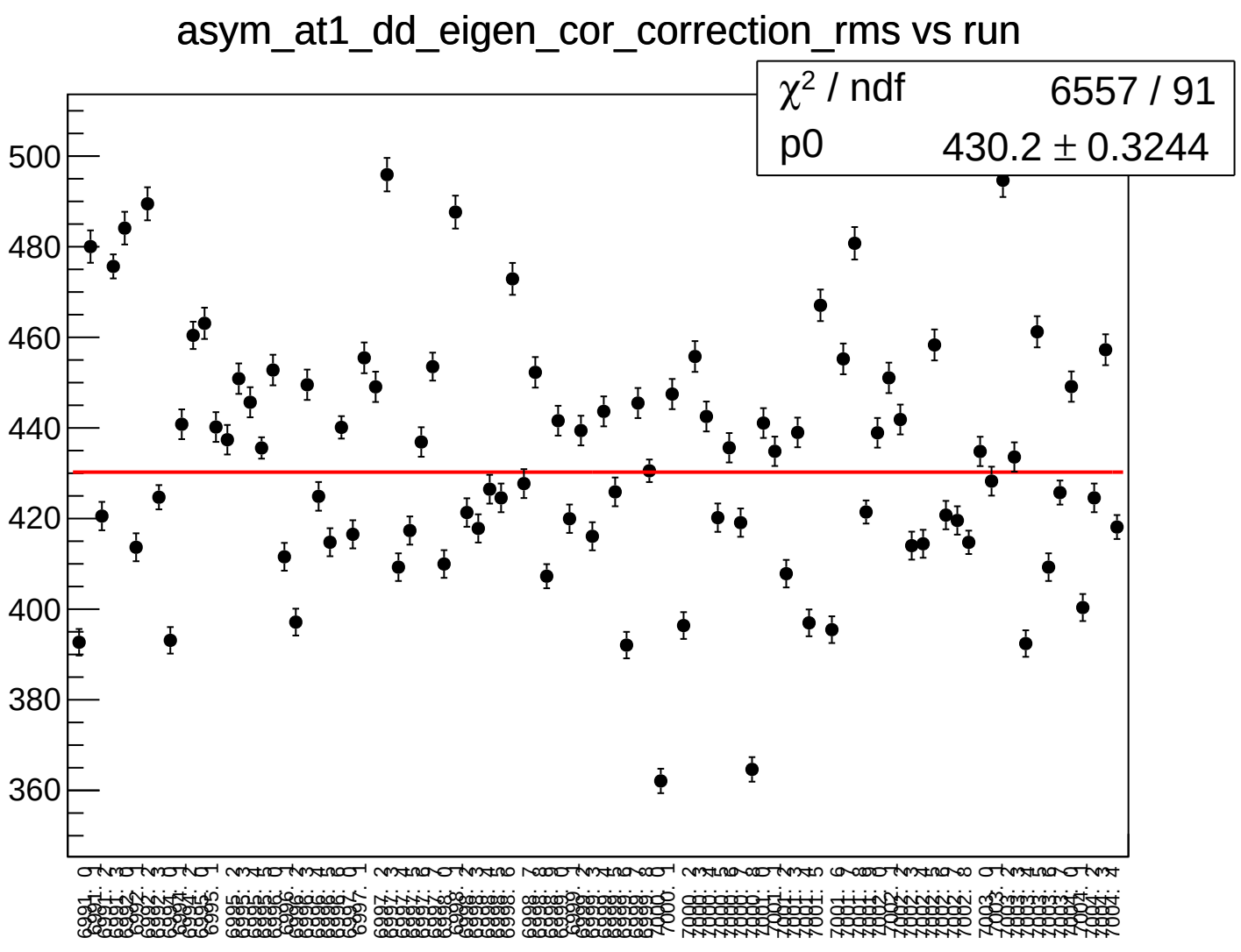

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 6557 / 91
p0 430.2 ± 0.3244
500
480
460
440
420
400
380
360

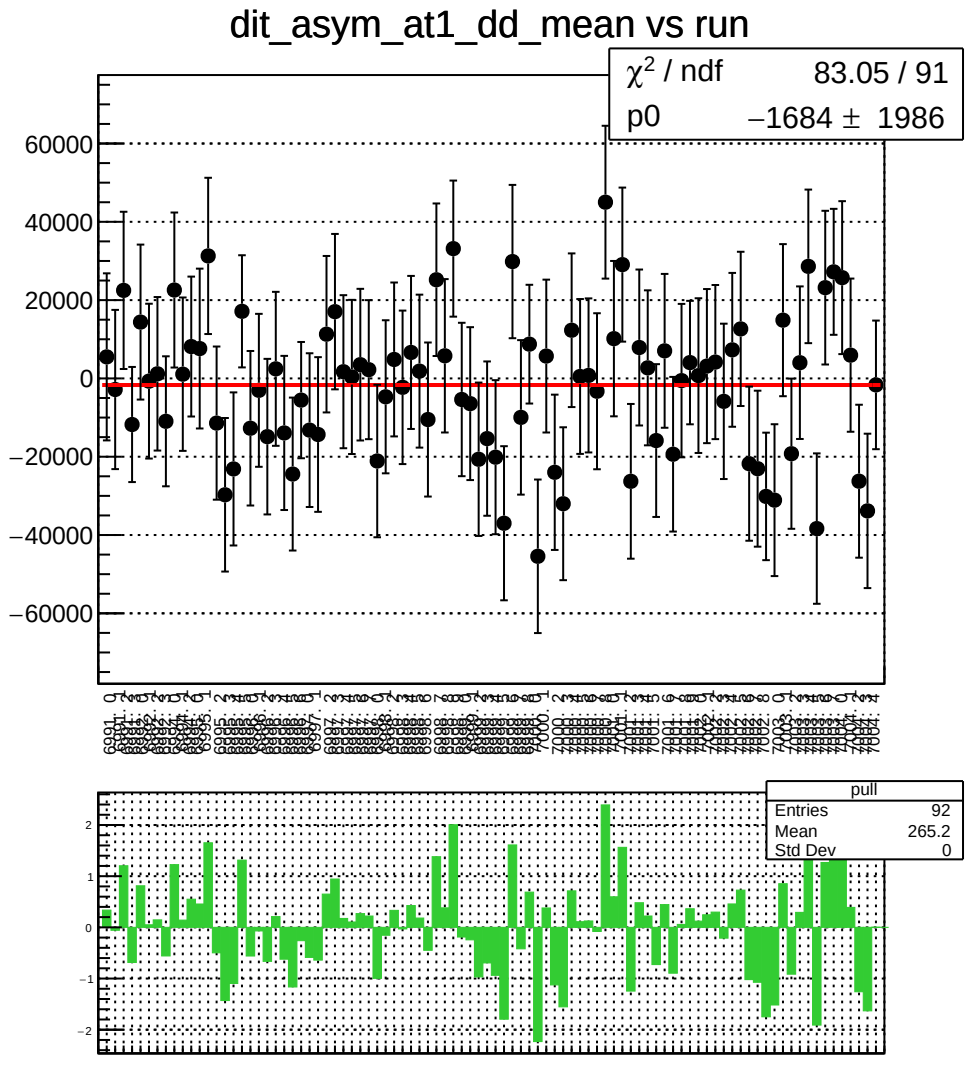

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 83.49 / 91
p0 −1775 ± 1986
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 259.2
Std Dev 0
2
1
0
−1
−2

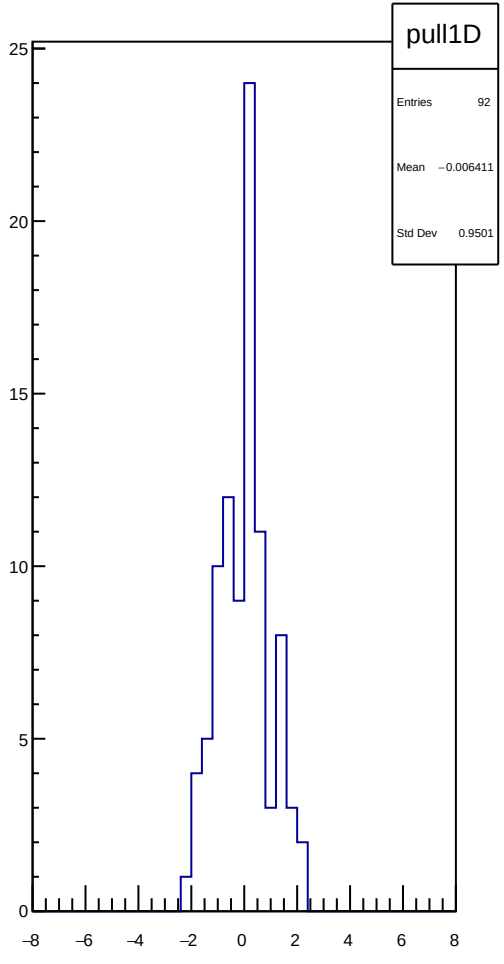

pull1D
Entries 92
Mean −0.006805
Std Dev 0.9526
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

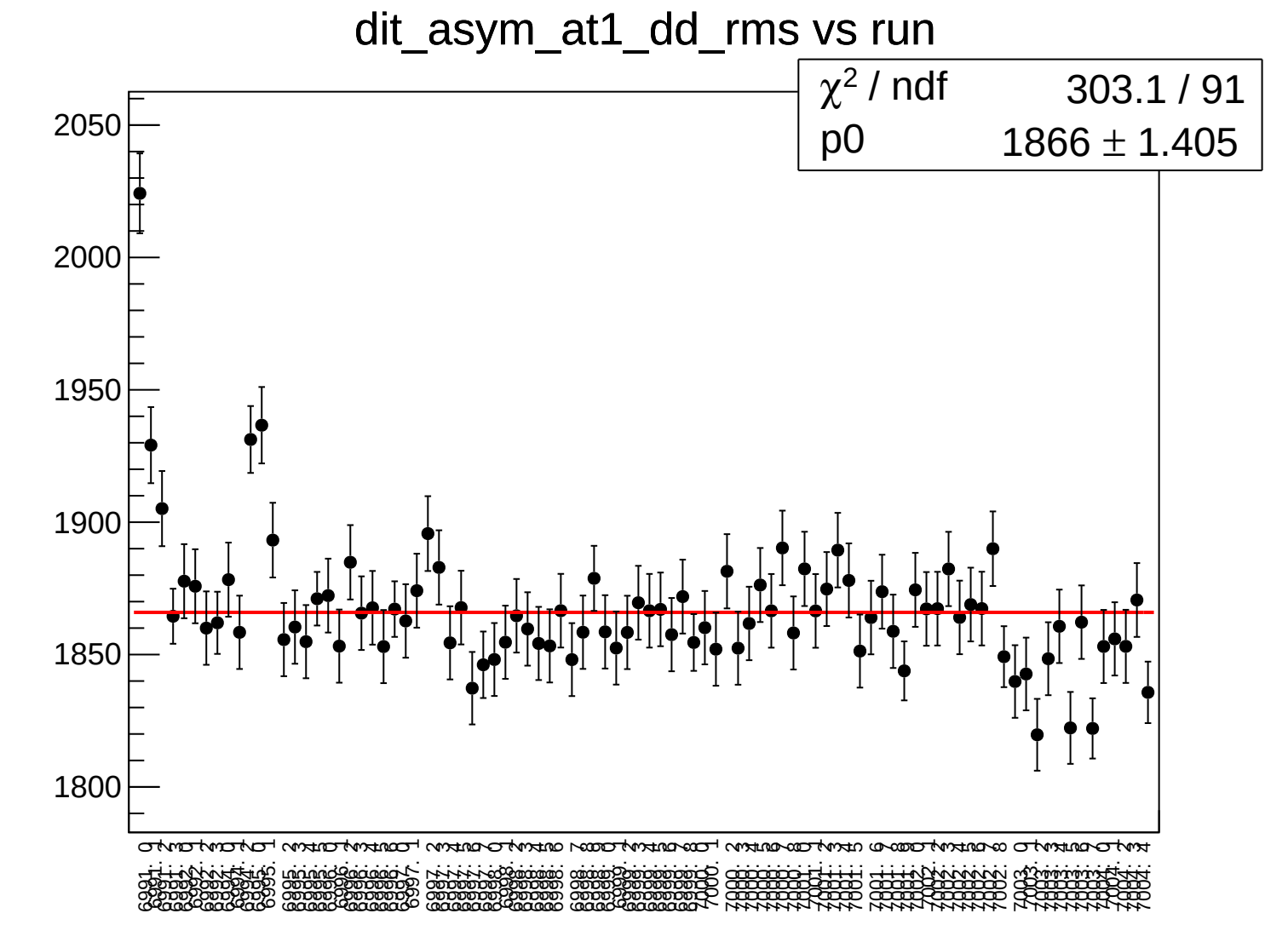

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 302.4 / 91
p0 1865 ± 1.404
2050
2000
1950
1900
1850
1800

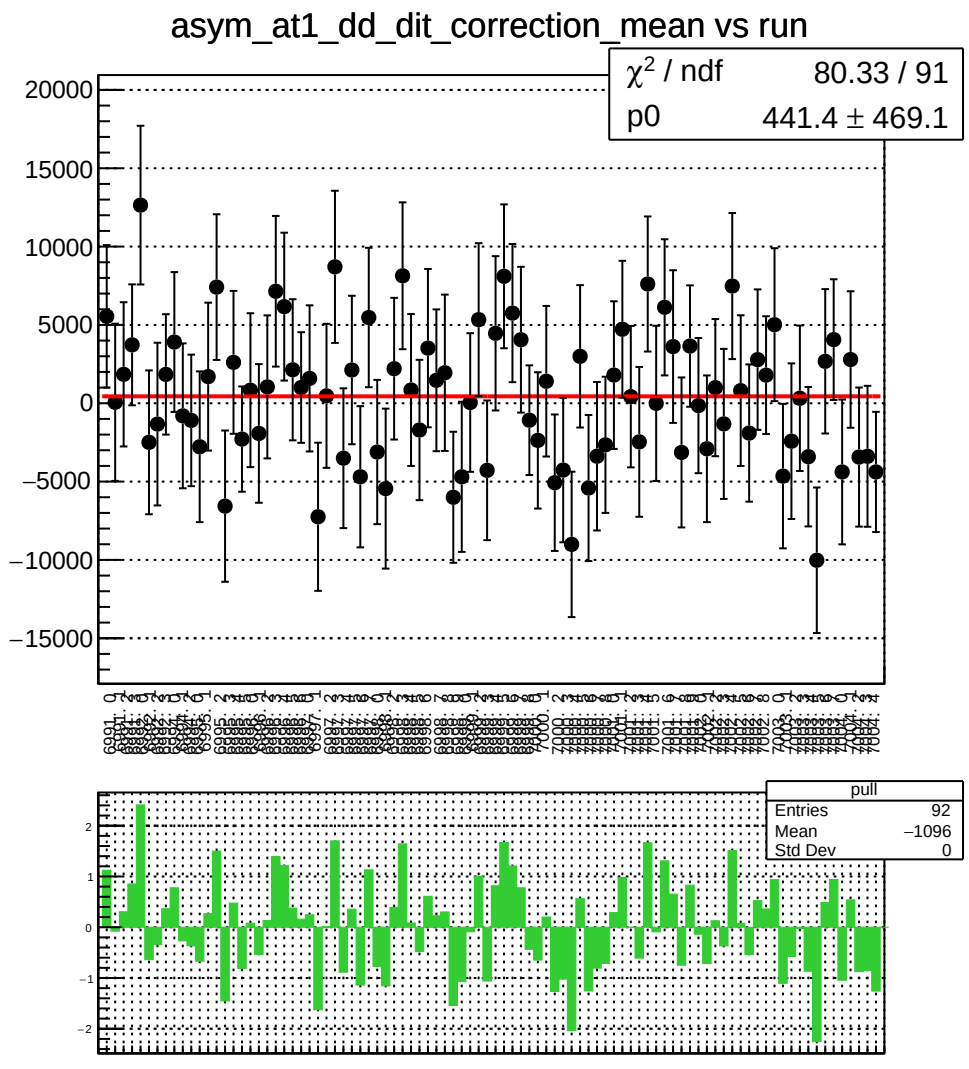

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.49 / 91
p0 399.7 ± 458.8
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1520
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003048
Std Dev 0.9295
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

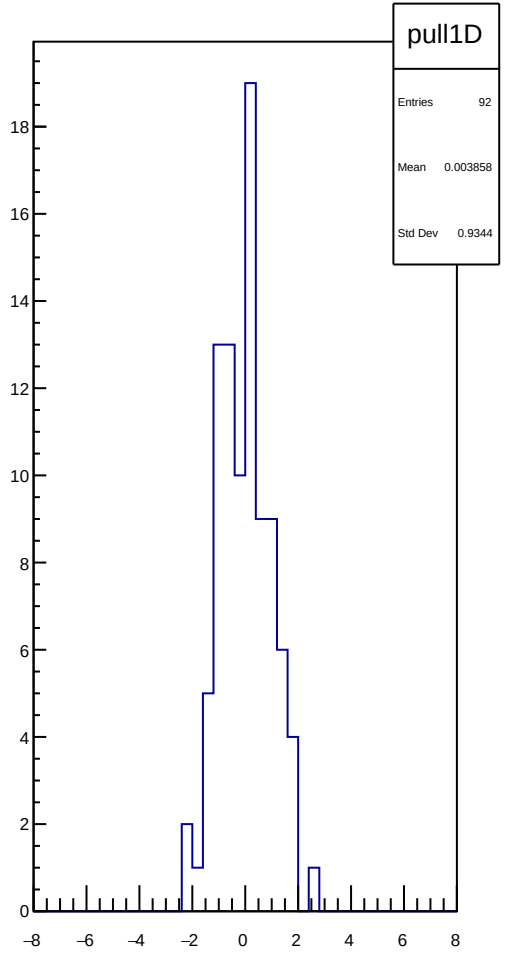

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6557 / 91
p0 430.2 ± 0.3244
500
480
460
440
420
400
380
360

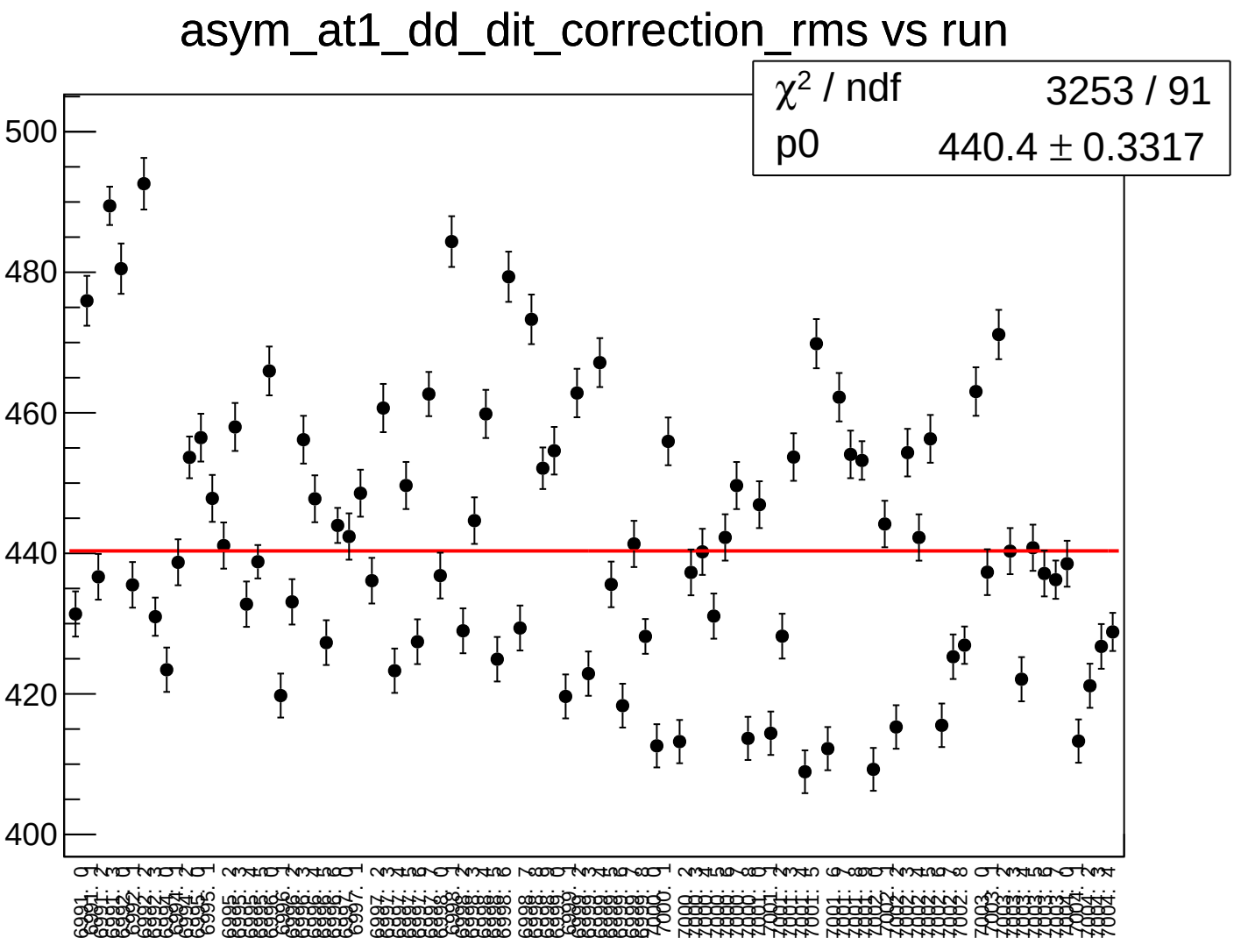

dit_asym_at1_dd_mean vs run
χ² / ndf 83.05 / 91
p0 −1684 ± 1986
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 265.2
Std Dev 0
2
1
0
−1
−2

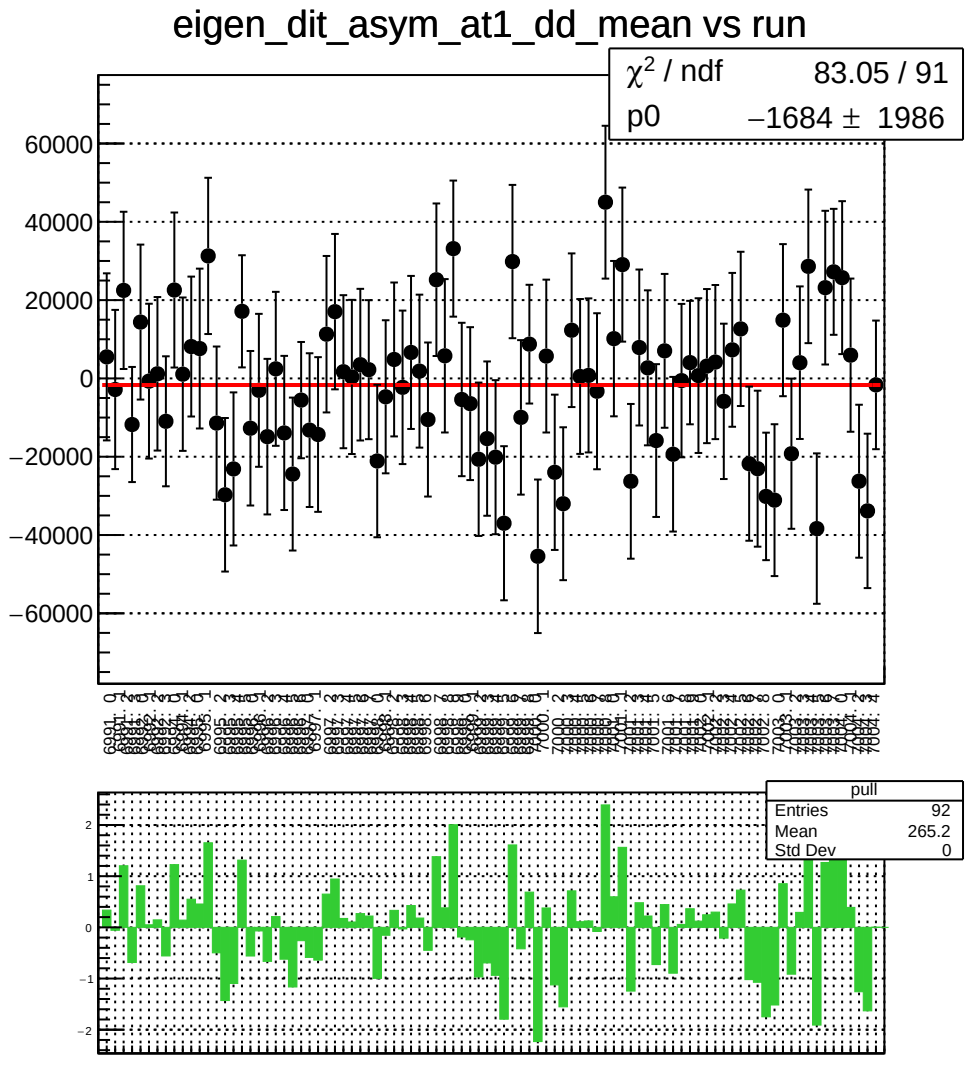

pull1D
Entries 92
Mean −0.006411
Std Dev 0.9501
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

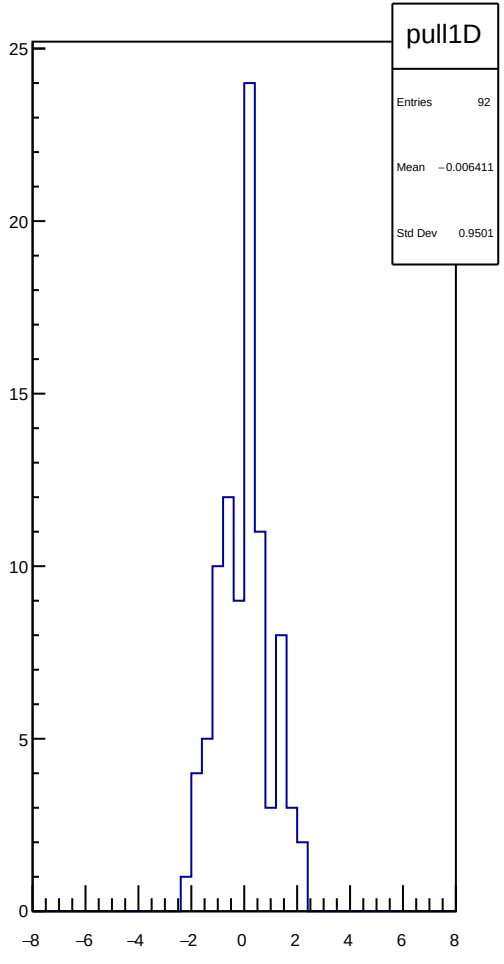

dit_asym_at1_dd_rms vs run
χ² / ndf 303.1 / 91
p0 1866 ± 1.405
2050
2000
1950
1900
1850
1800

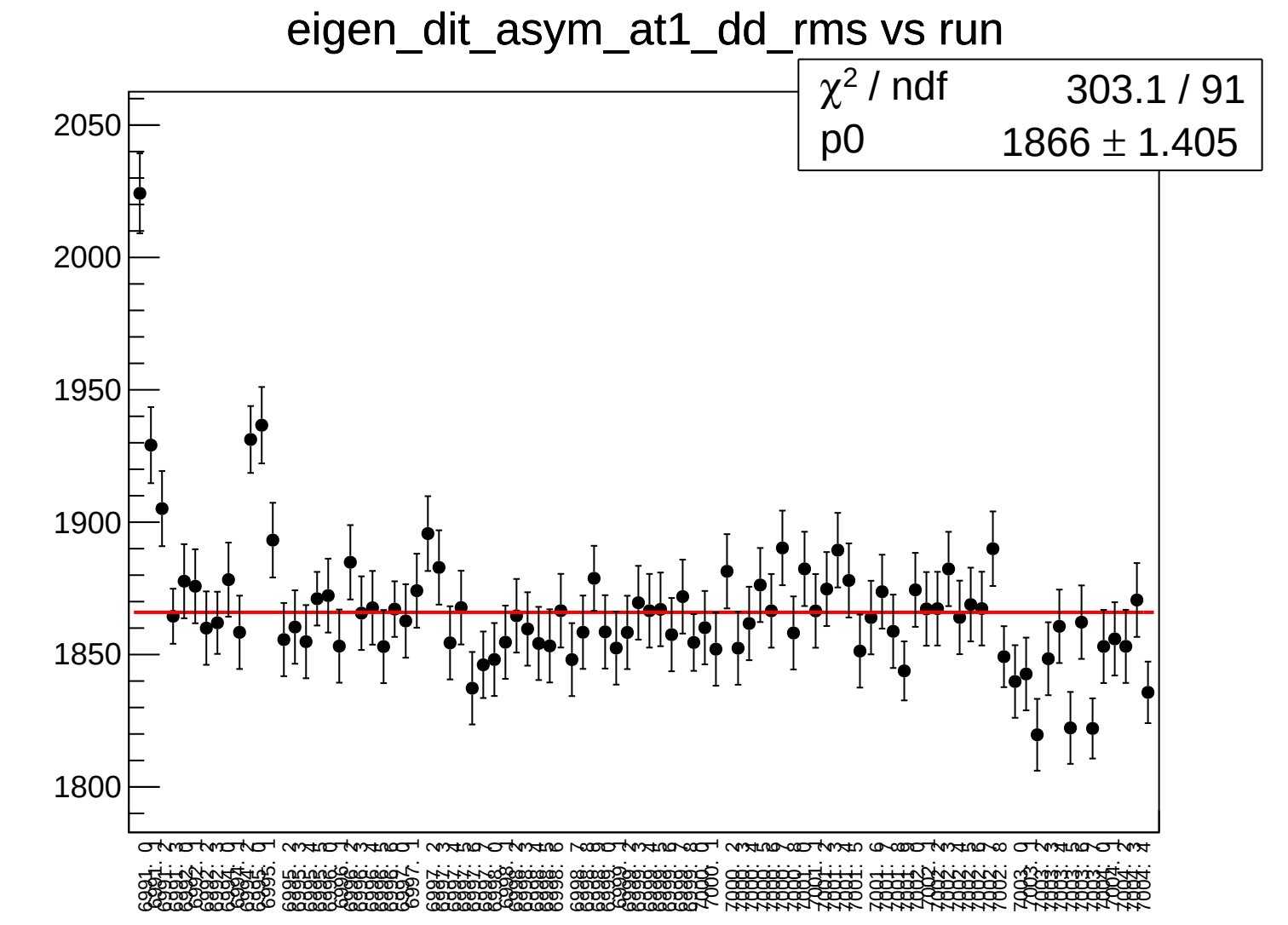

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 80.33 / 91
p0 441.4 ± 469.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1096
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean 0.003858
Std Dev 0.9344
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

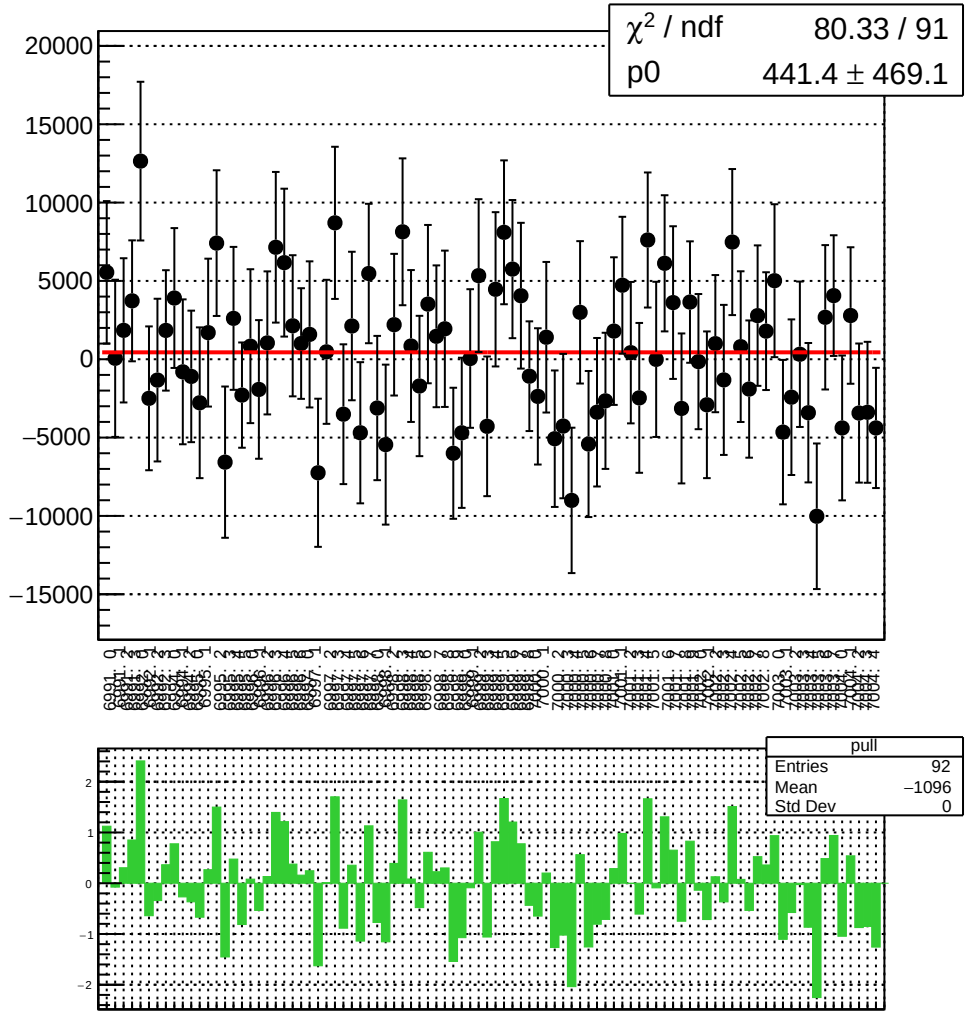

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 3253 / 91
p0 440.4 ± 0.3317
500
480
460
440
420
400

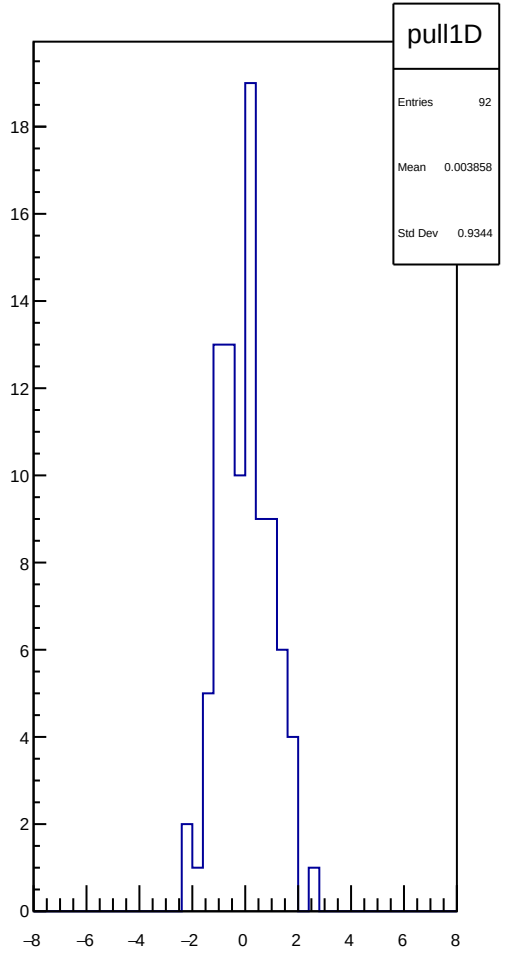

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 83.05 / 91
p0 −1684 ± 1986
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 265.2
Std Dev 0
2
1
0
−1
−2

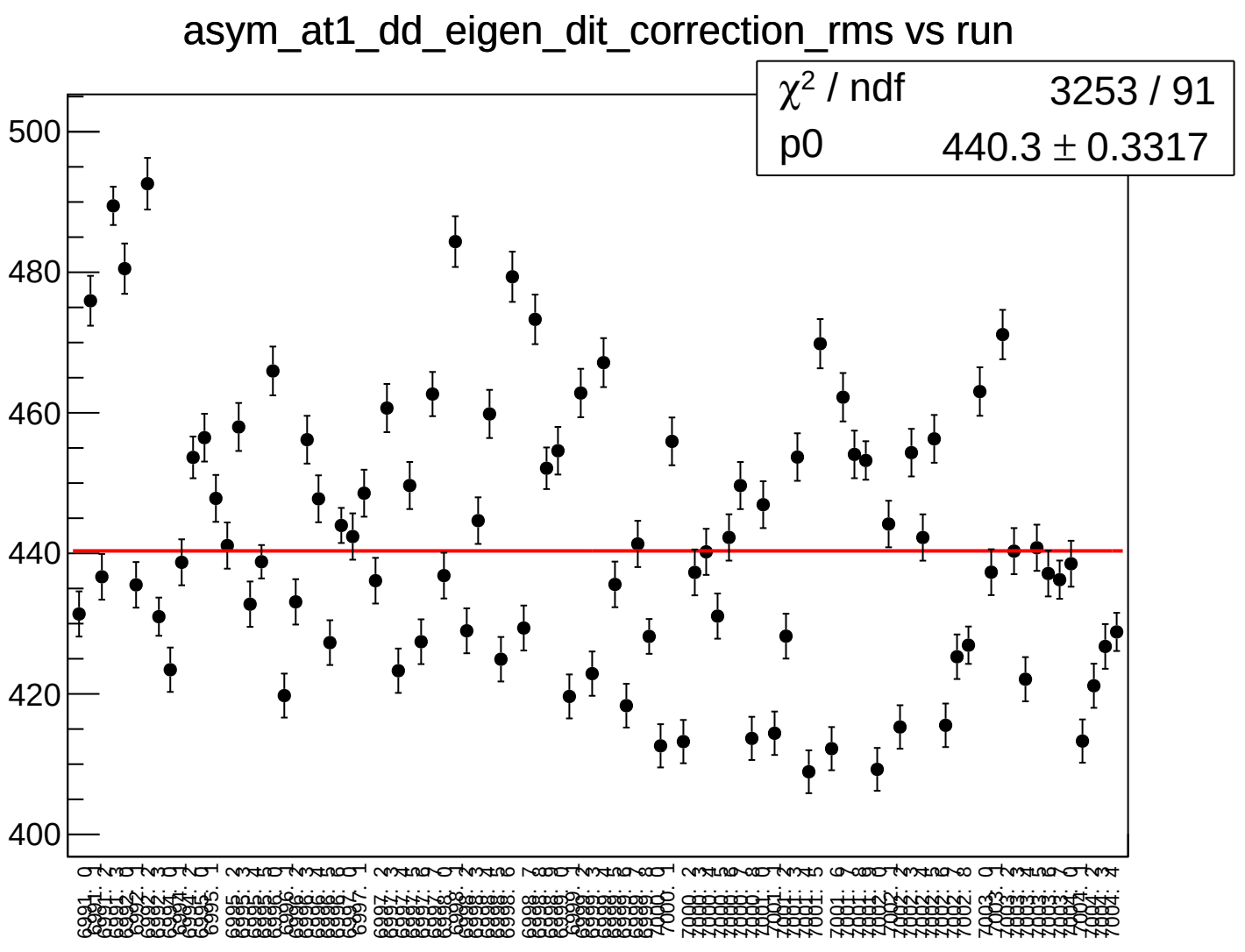

pull1D
Entries 92
Mean −0.006411
Std Dev 0.9501
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

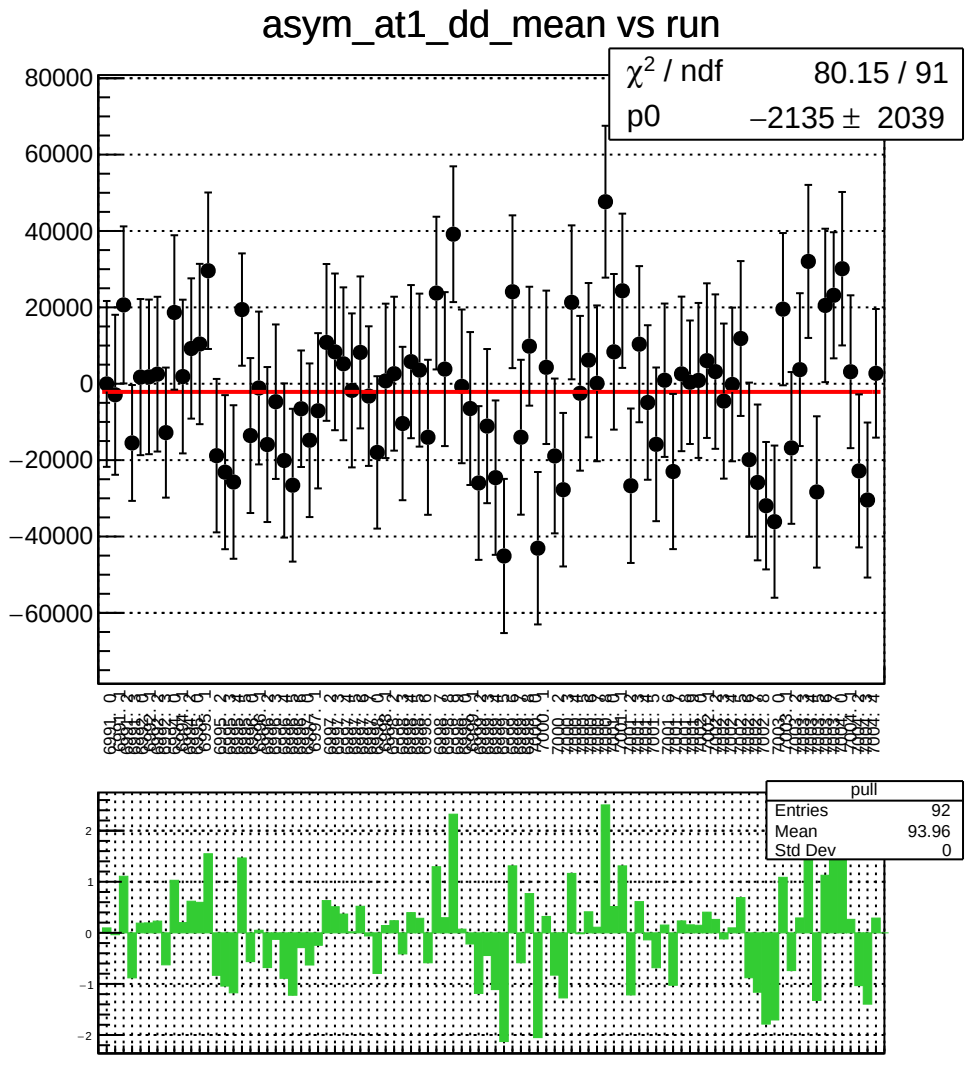

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 303.1 / 91
p0 1866 ± 1.405
2050
2000
1950
1900
1850
1800

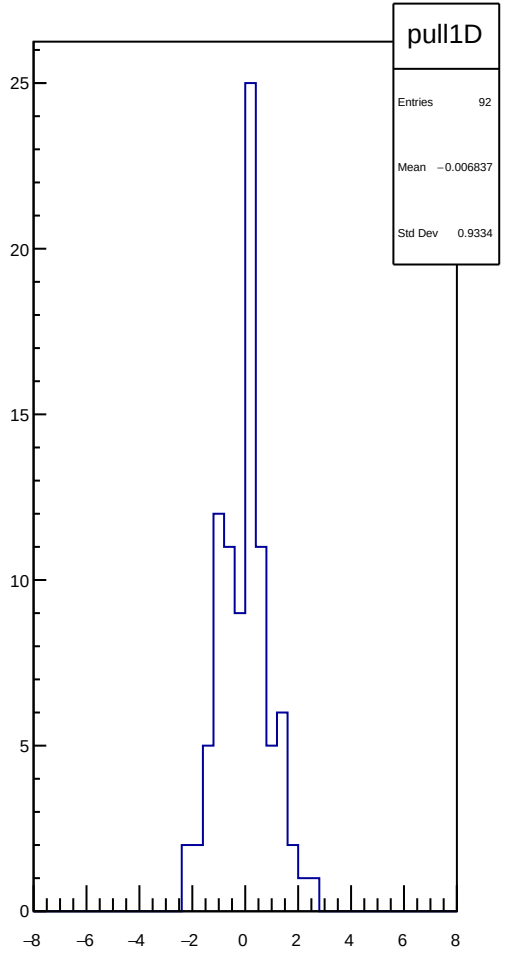
asym_at1_dd_eigen_dit_correction_mean vs run

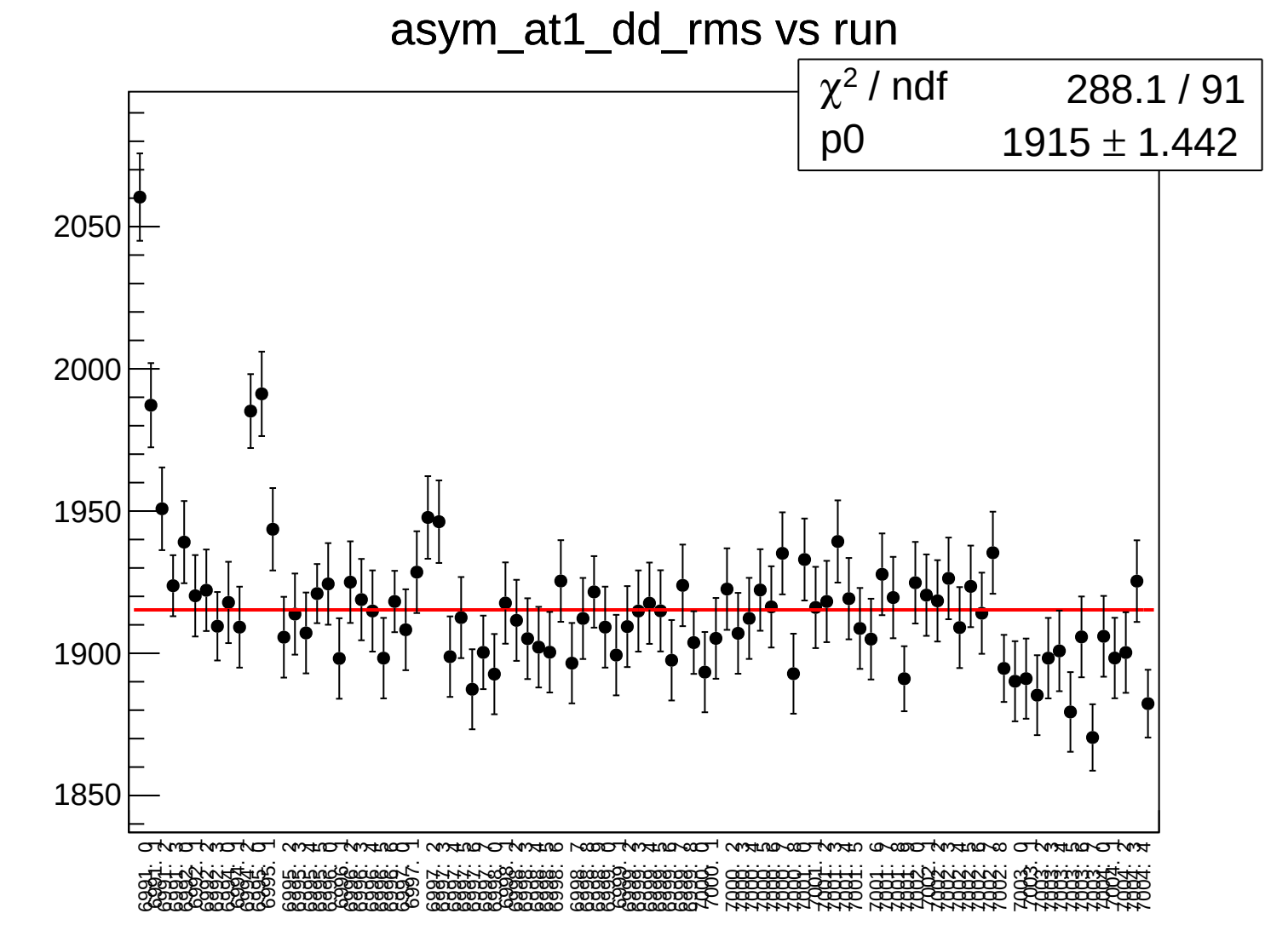


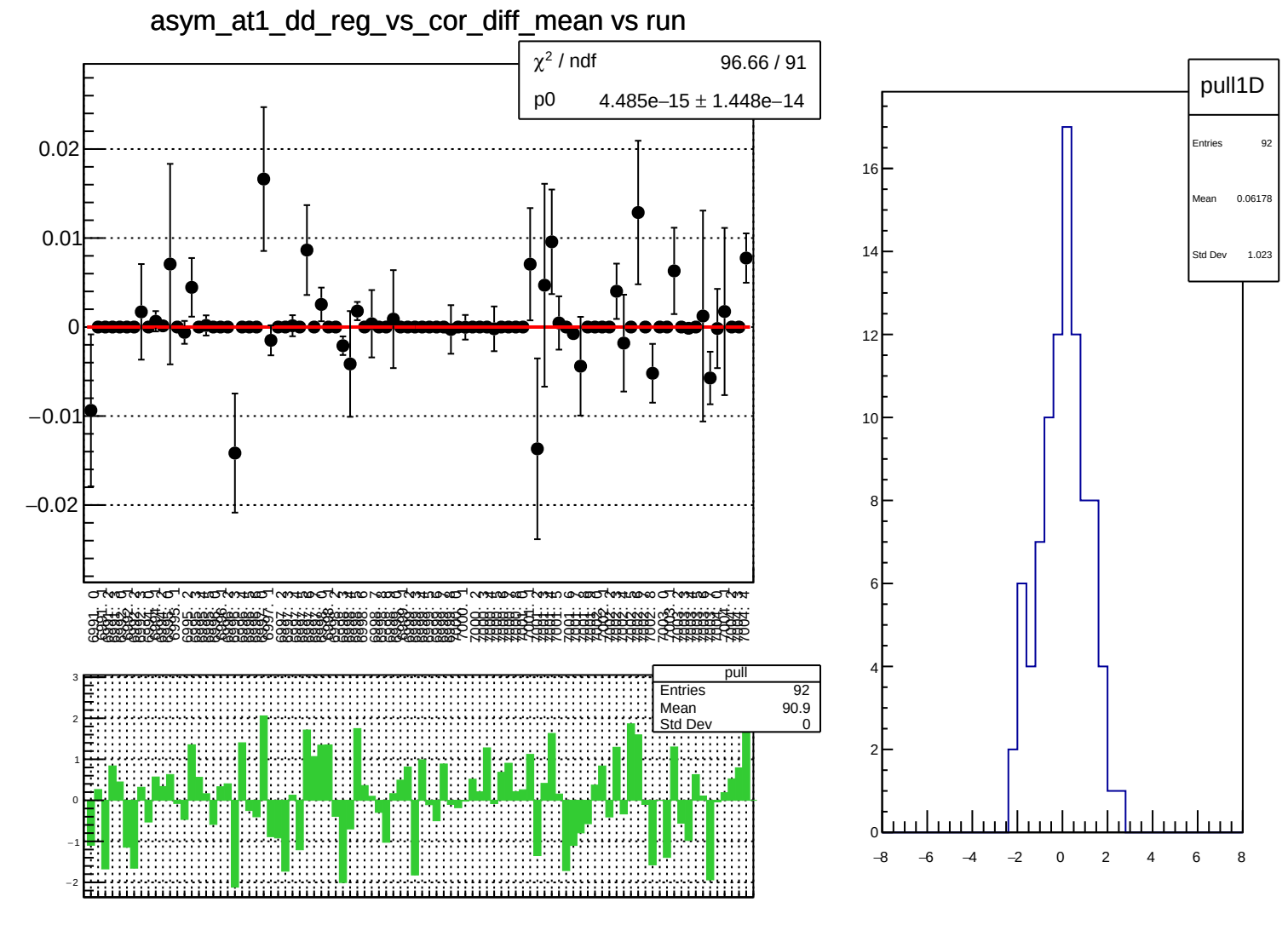


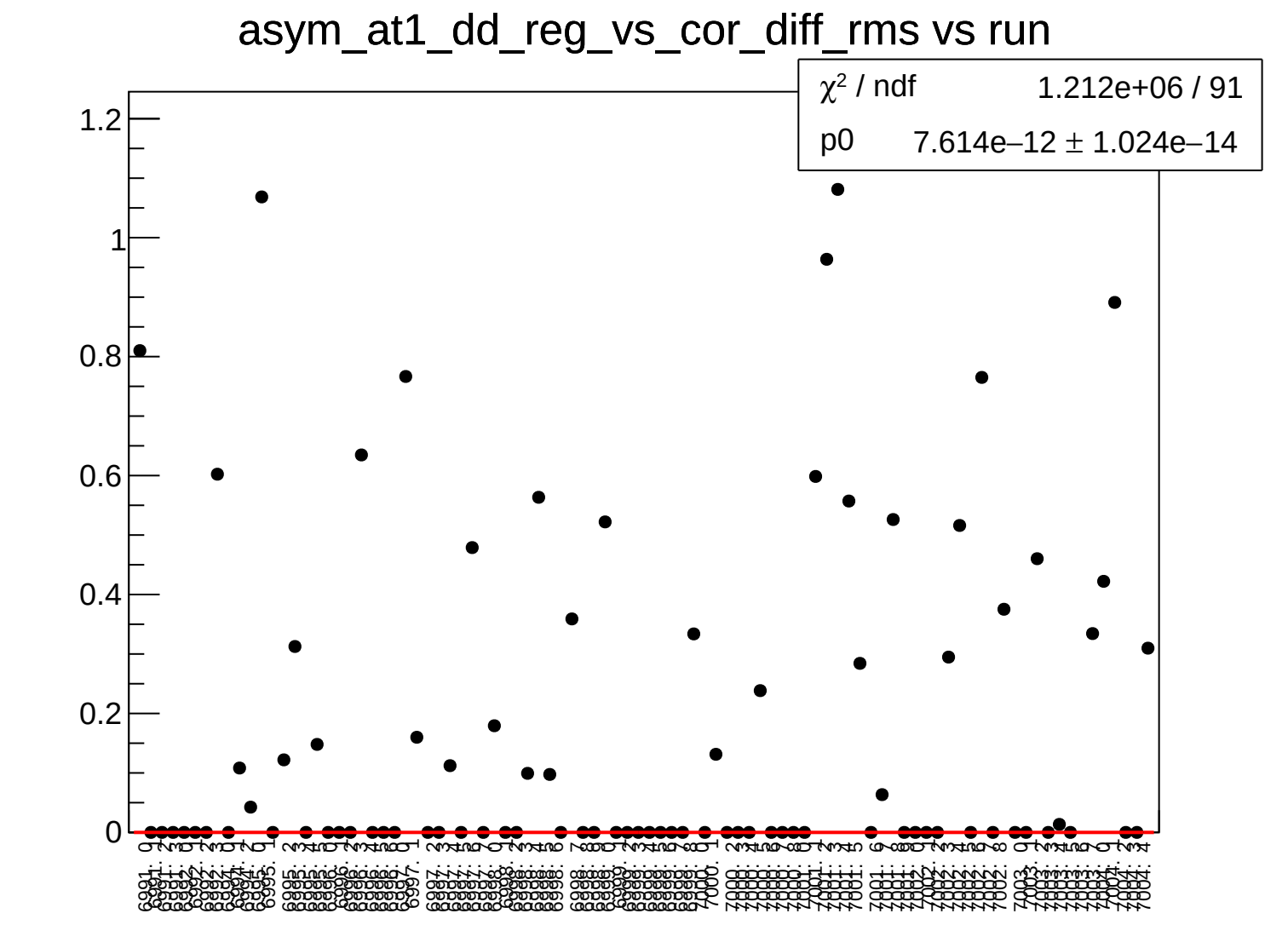

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3253 / 91
p0 440.3 ± 0.3317
500
480
460
440
420
400

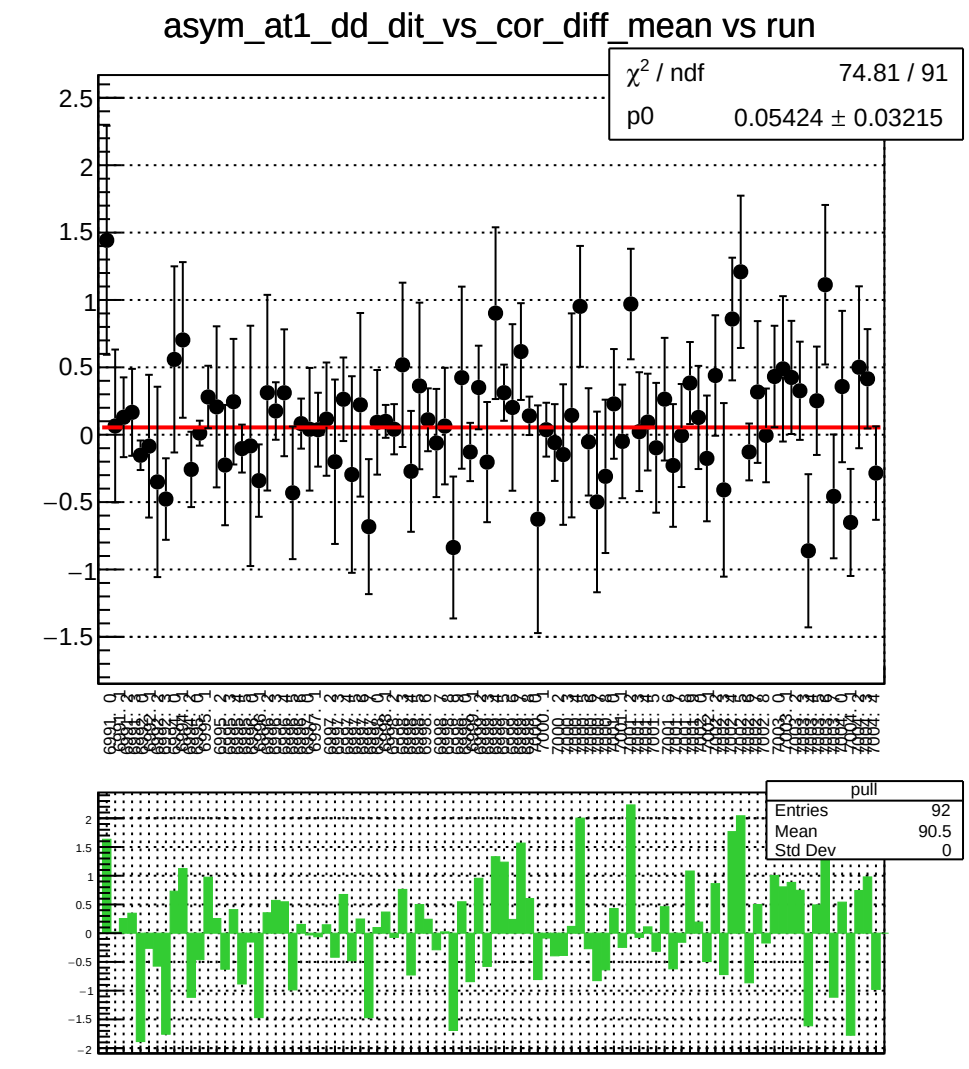

asym_at1_dd_mean vs run
χ^2 / ndf 80.15 / 91
p0 −2135 ± 2039
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 93.96
Std Dev 0
2
1
0
−1
−2

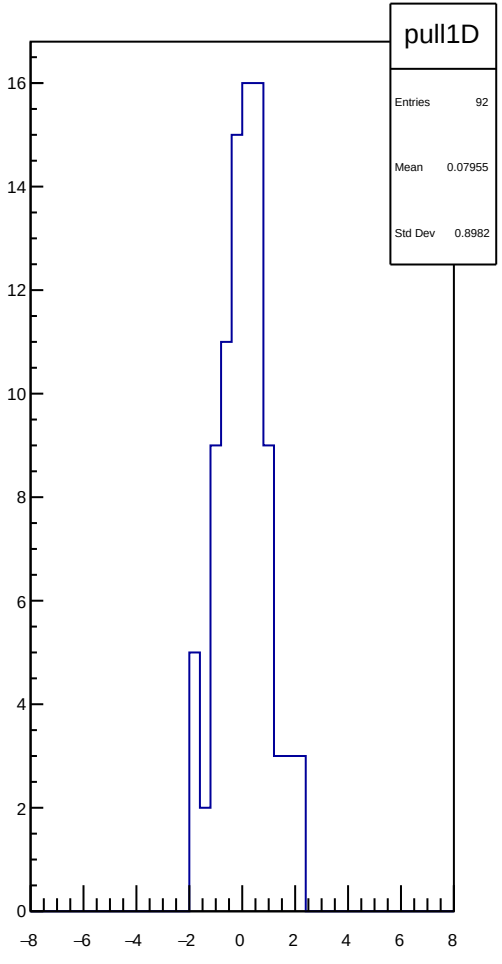

pull1D
Entries 92
Mean −0.006837
Std Dev 0.9334
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

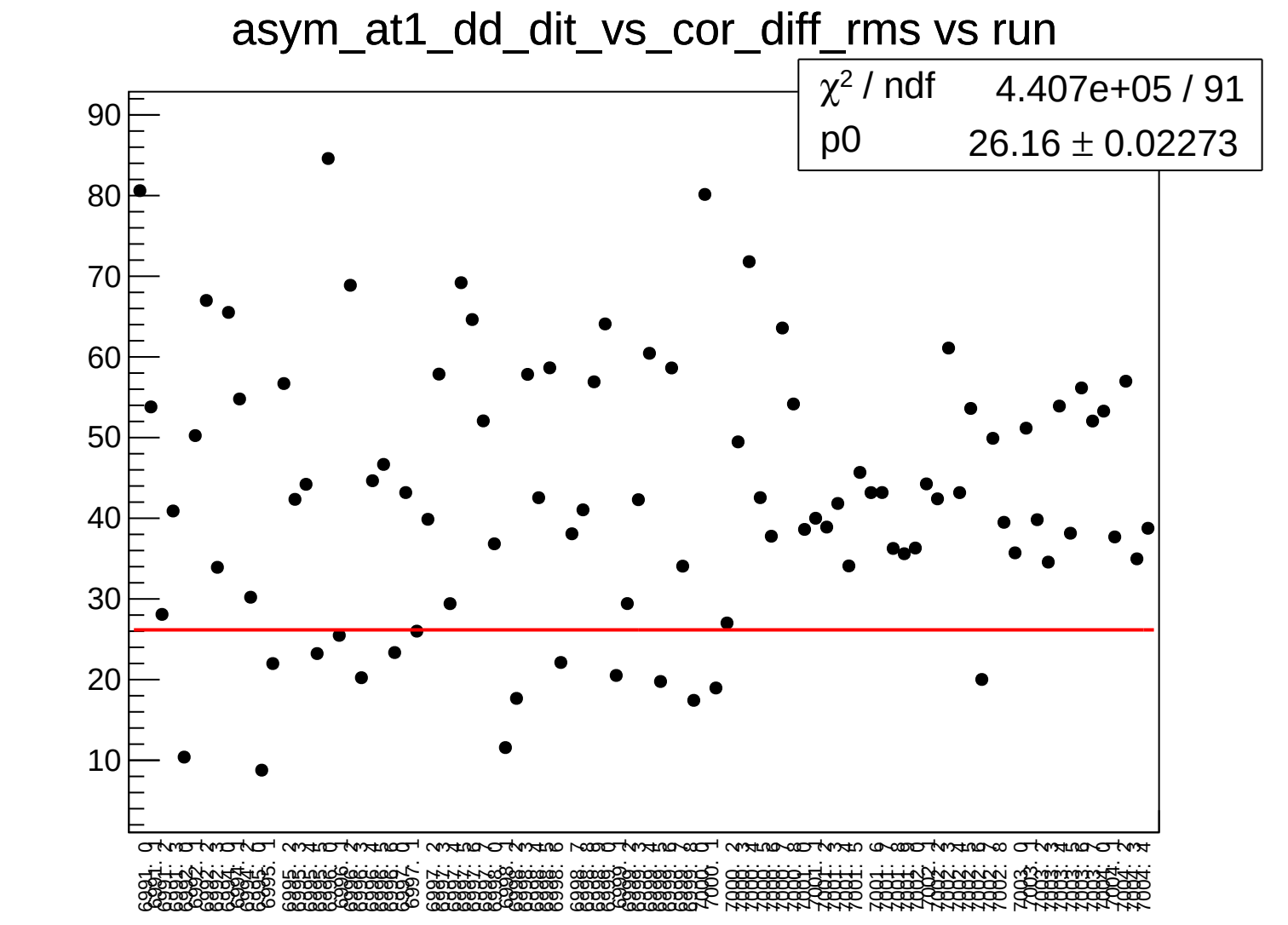

asym_at1_dd_rms vs run
χ² / ndf 288.1 / 91
p0 1915 ± 1.442
2050
2000
1950
1900
1850

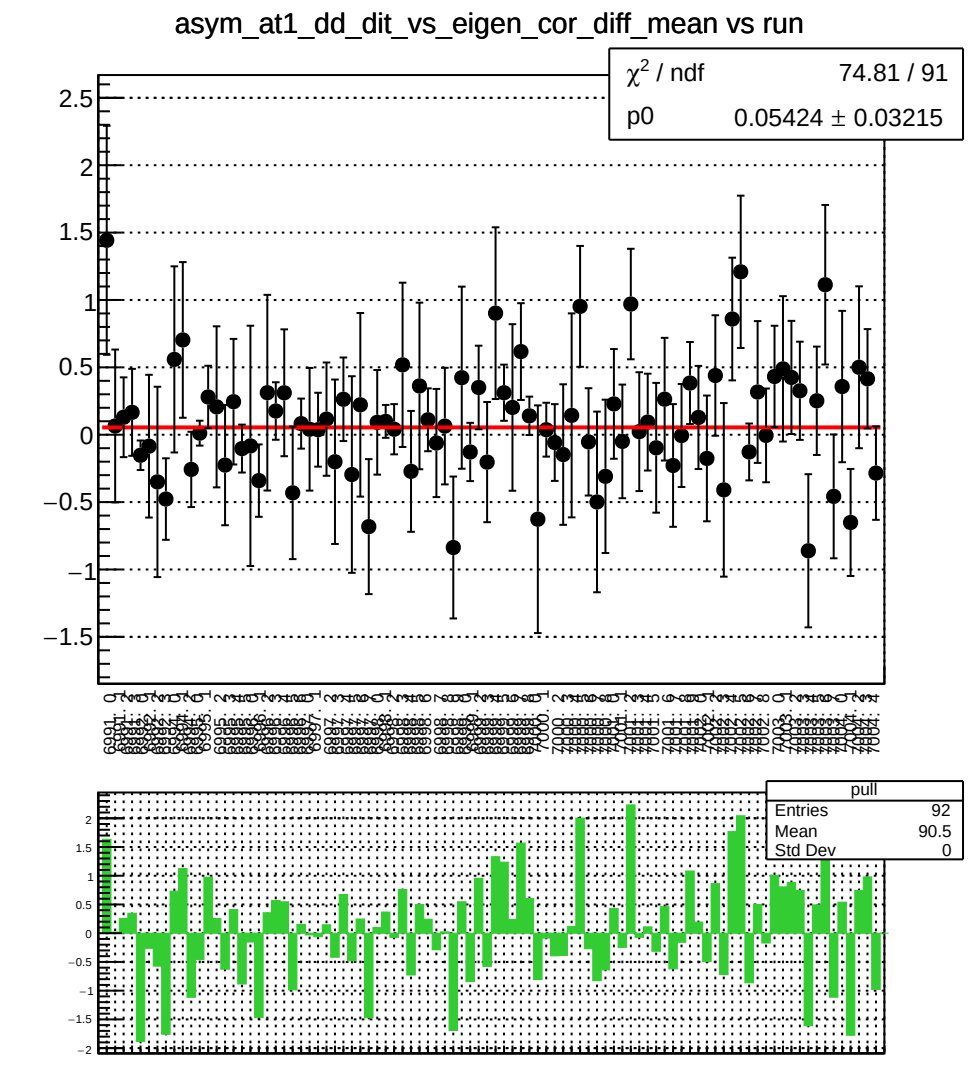

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.66 / 91
p0 4.485e−15 ± 1.448e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 90.9
Std Dev 0
pull1D
Entries 92
Mean 0.06178
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

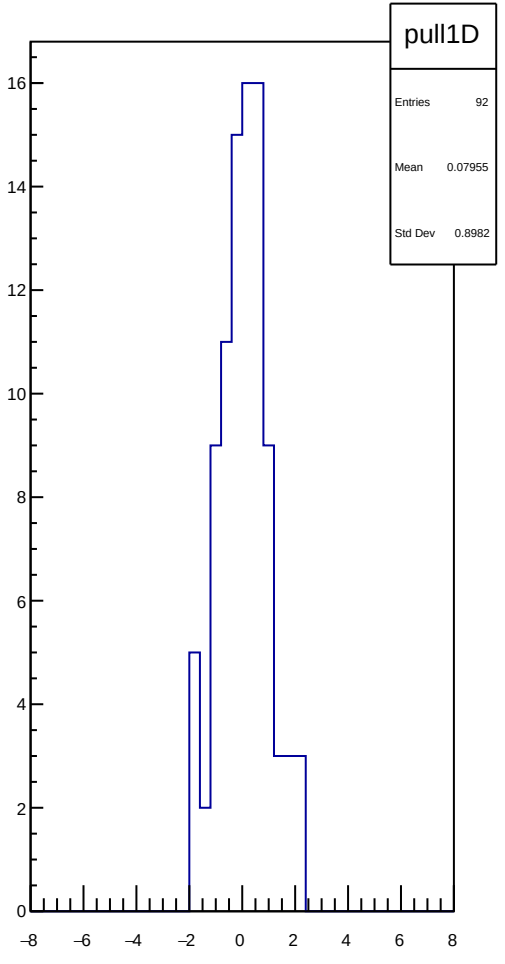

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.212e+06 / 91
p0 7.614e−12 ± 1.024e−14
1.2
1
0.8
0.6
0.4
0.2
0

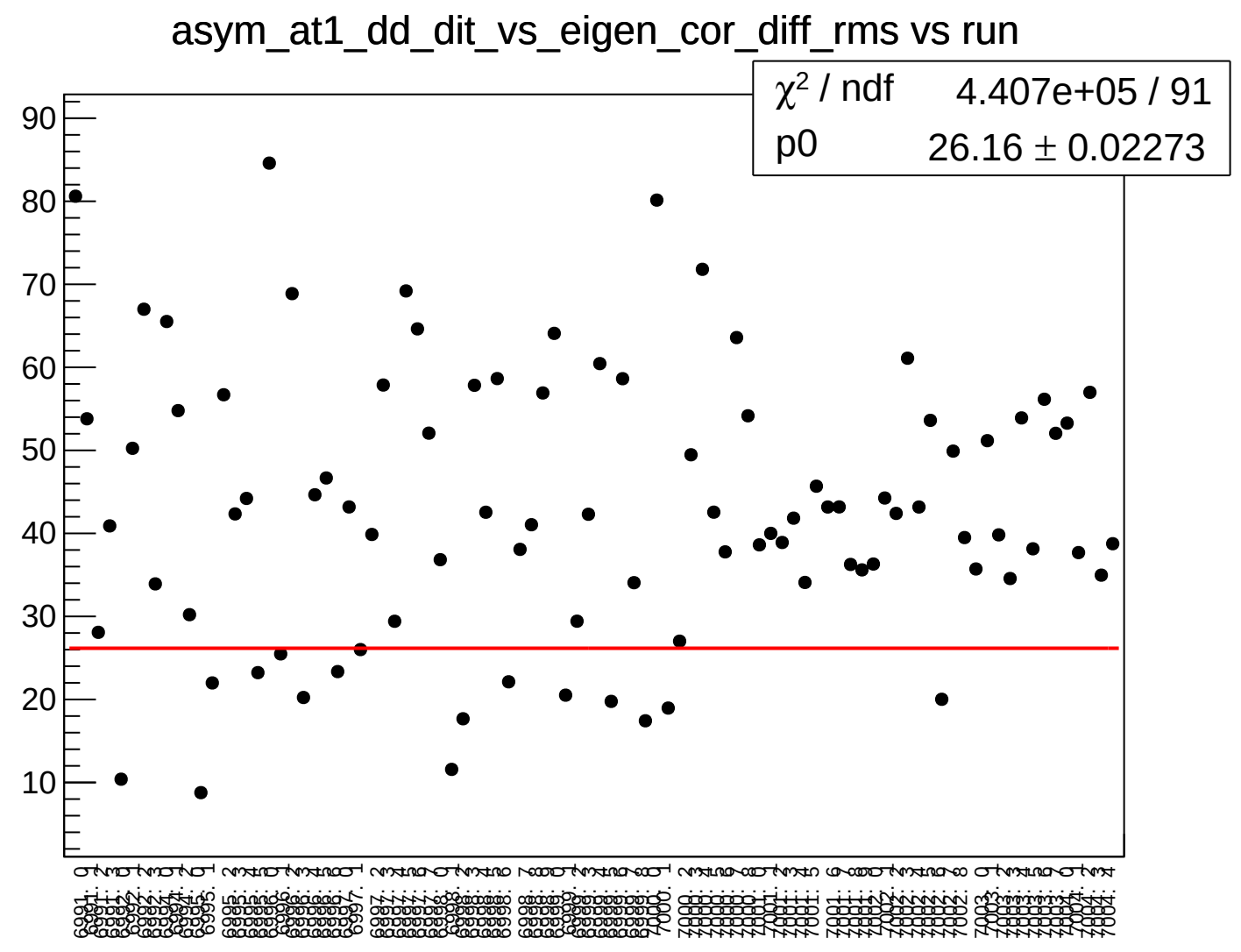

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.81 / 91
p0 0.05424 ± 0.03215
pull
Entries 92
Mean 90.5
Std Dev 0

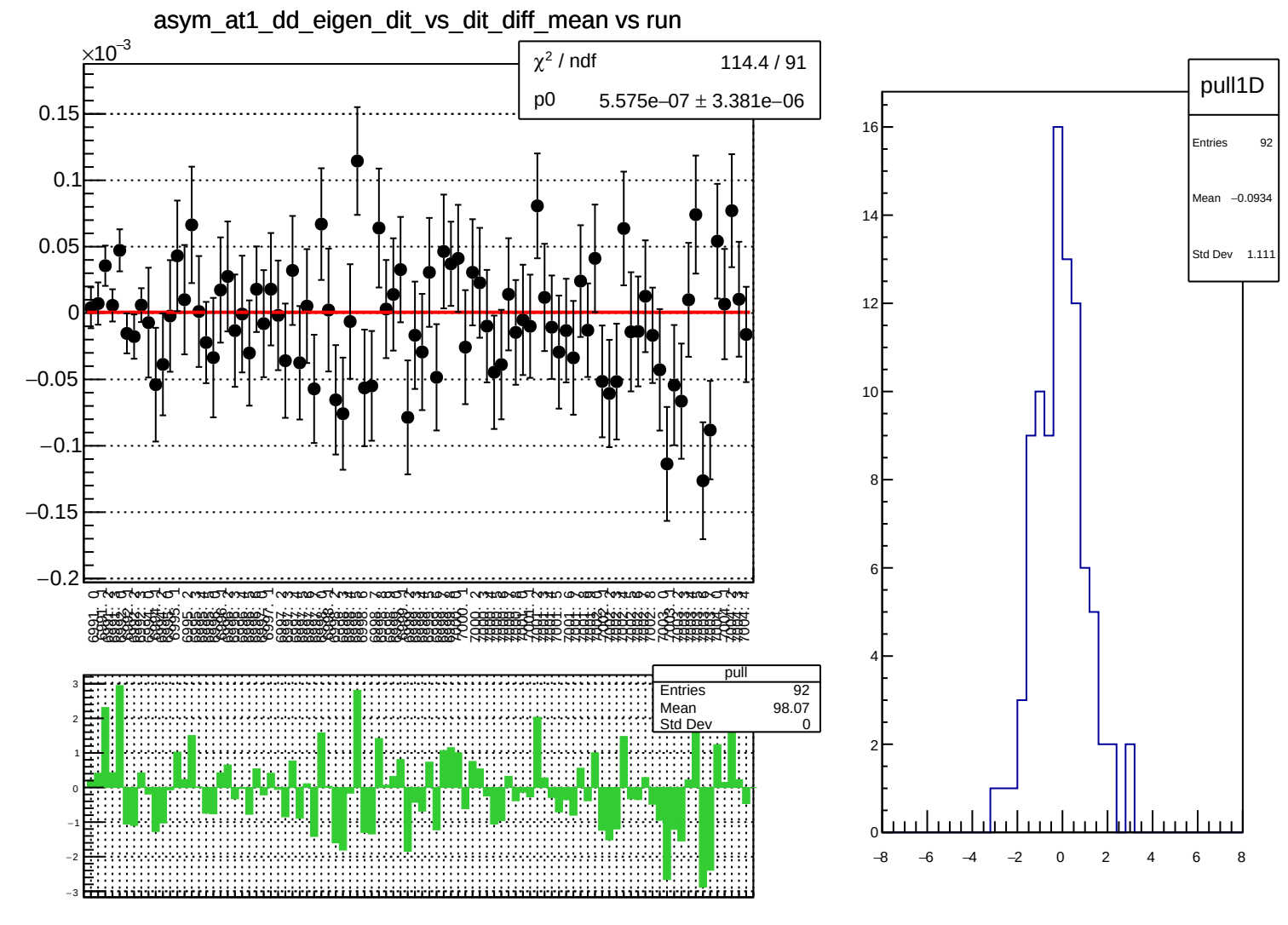

pull1D
Entries 92
Mean 0.07955
Std Dev 0.8982

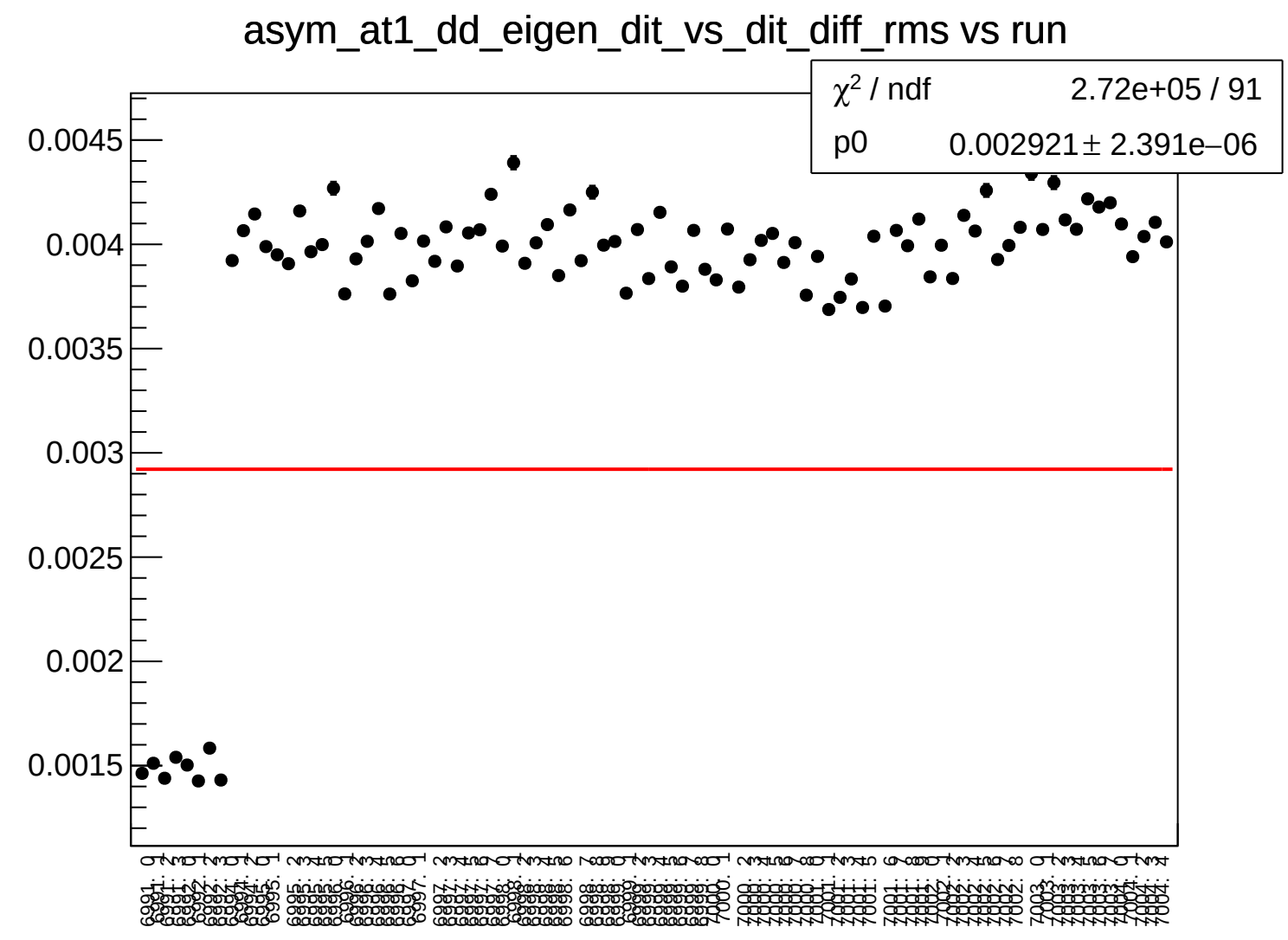

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.407e+05 / 91
p0 26.16 ± 0.02273
90
80
70
60
50
40
30
20
10

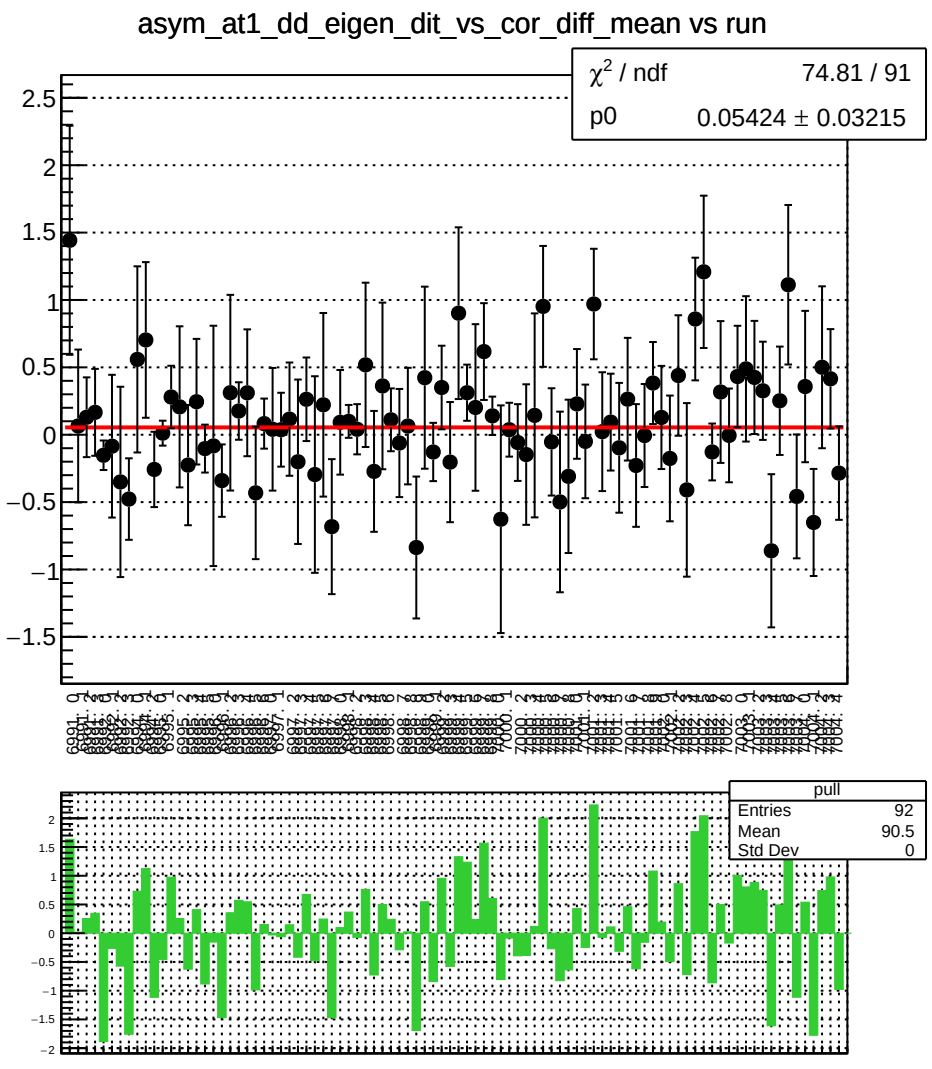

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.81 / 91
p0 0.05424 ± 0.03215
pull
Entries 92
Mean 90.5
Std Dev 0

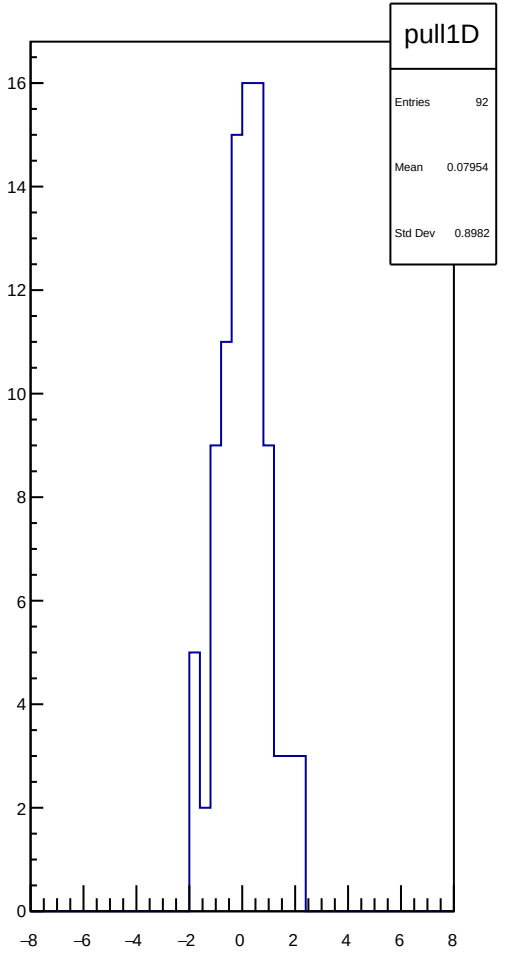

pull1D
Entries 92
Mean 0.07955
Std Dev 0.8982

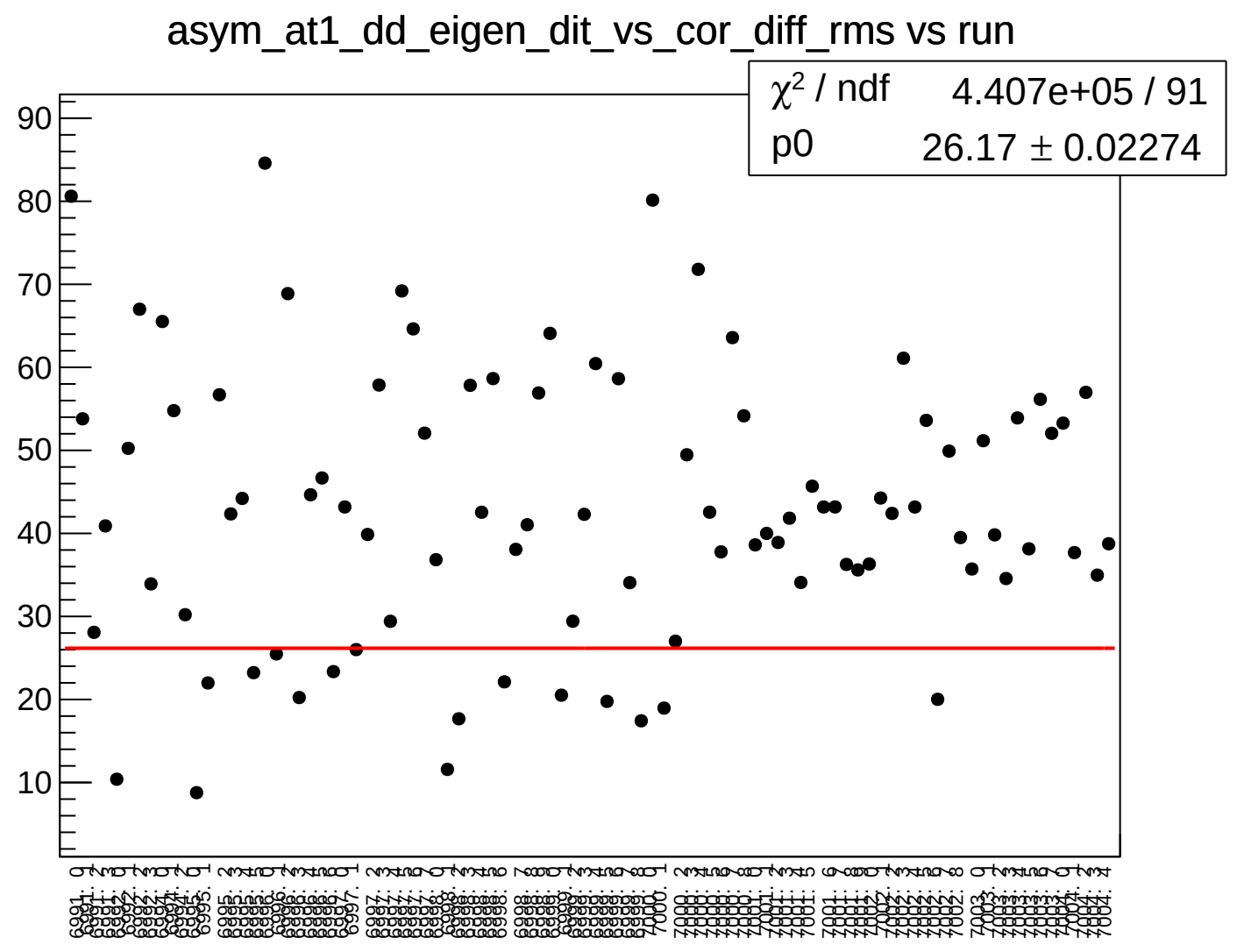

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.407e+05 / 91
p0 26.16 ± 0.02273
90
80
70
60
50
40
30
20
10

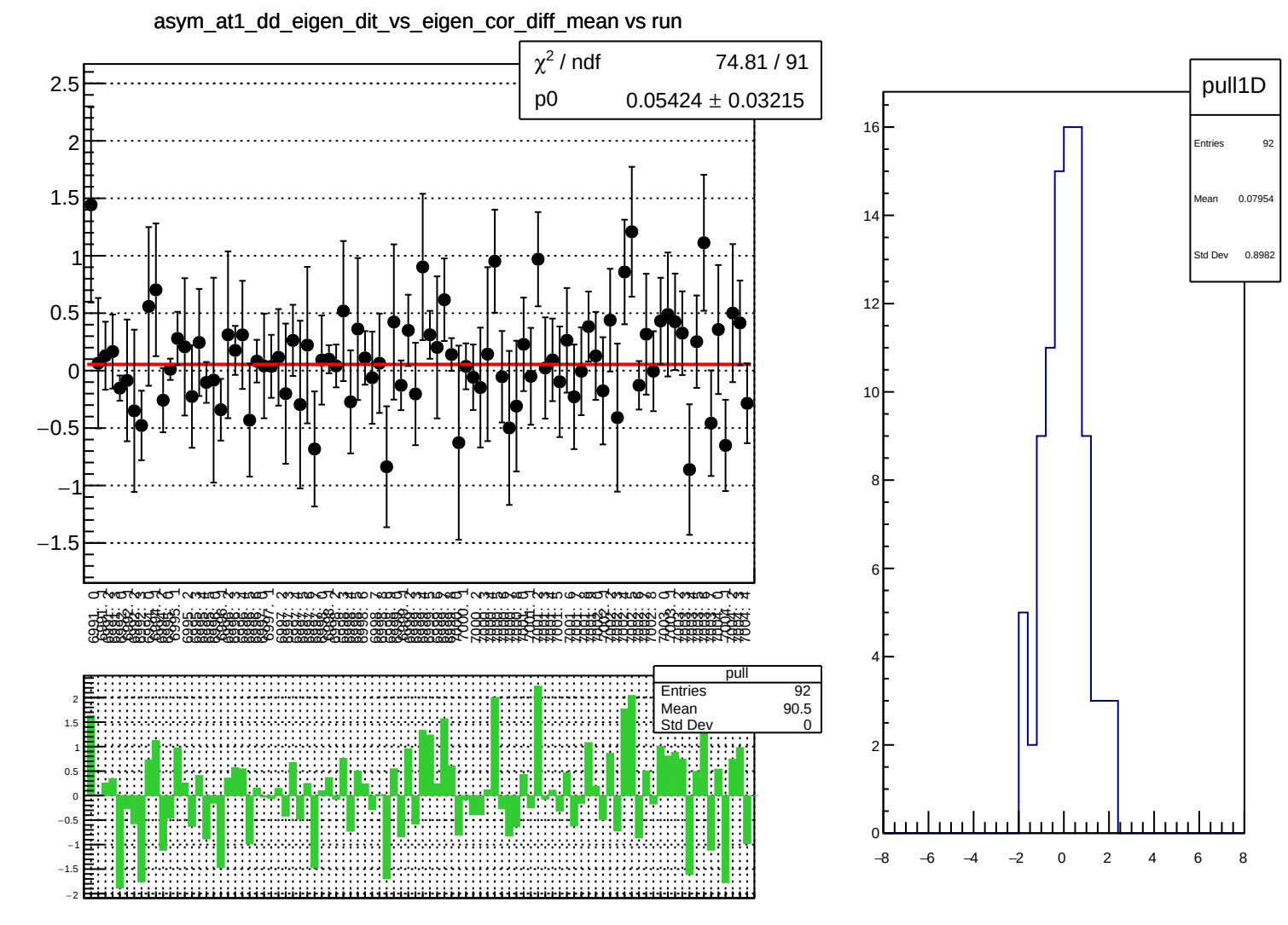

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 114.4 / 91
p0 5.575e−07 ± 3.381e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 92
Mean 98.07
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0934
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

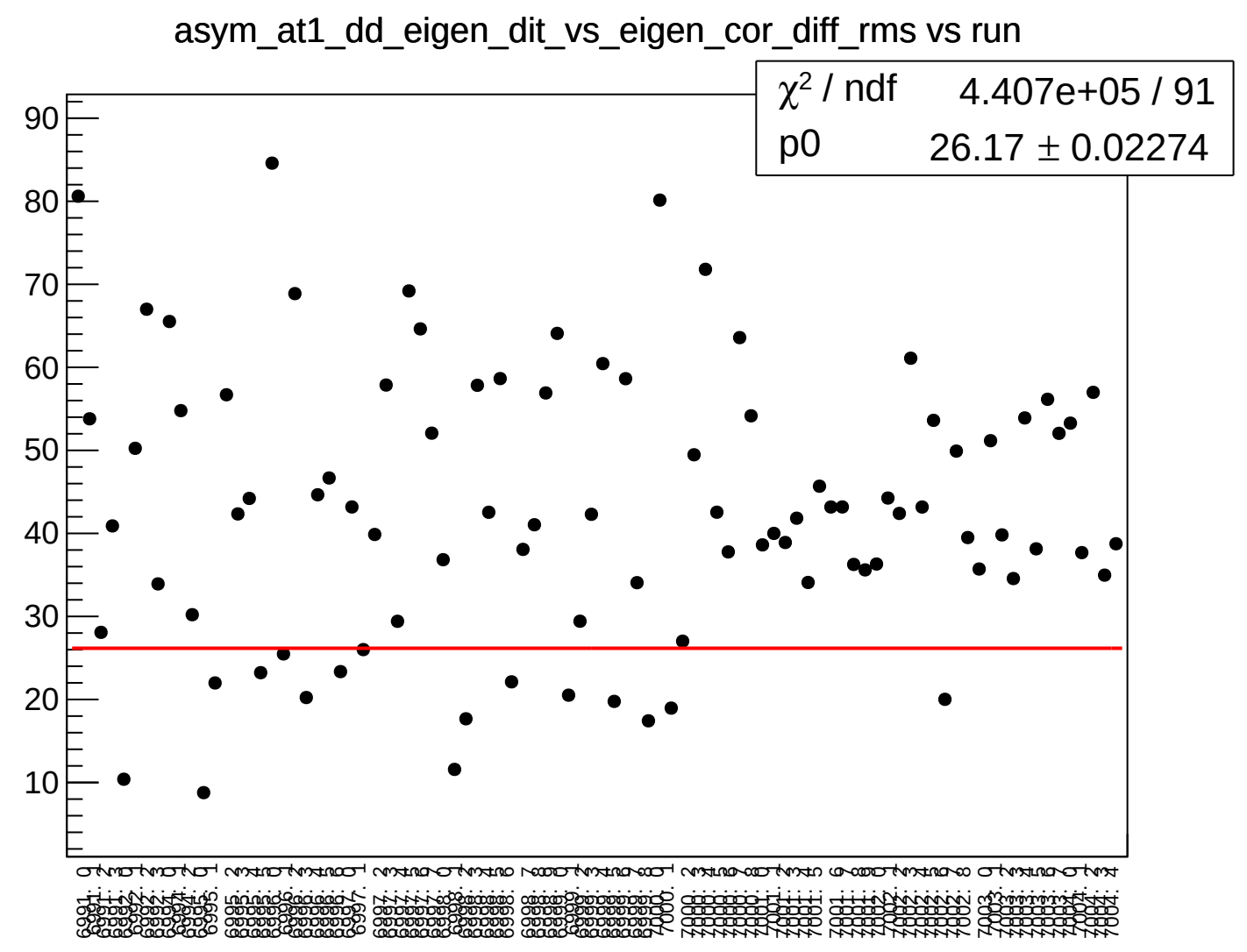

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.72e+05 / 91
p0 0.002921 ± 2.391e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

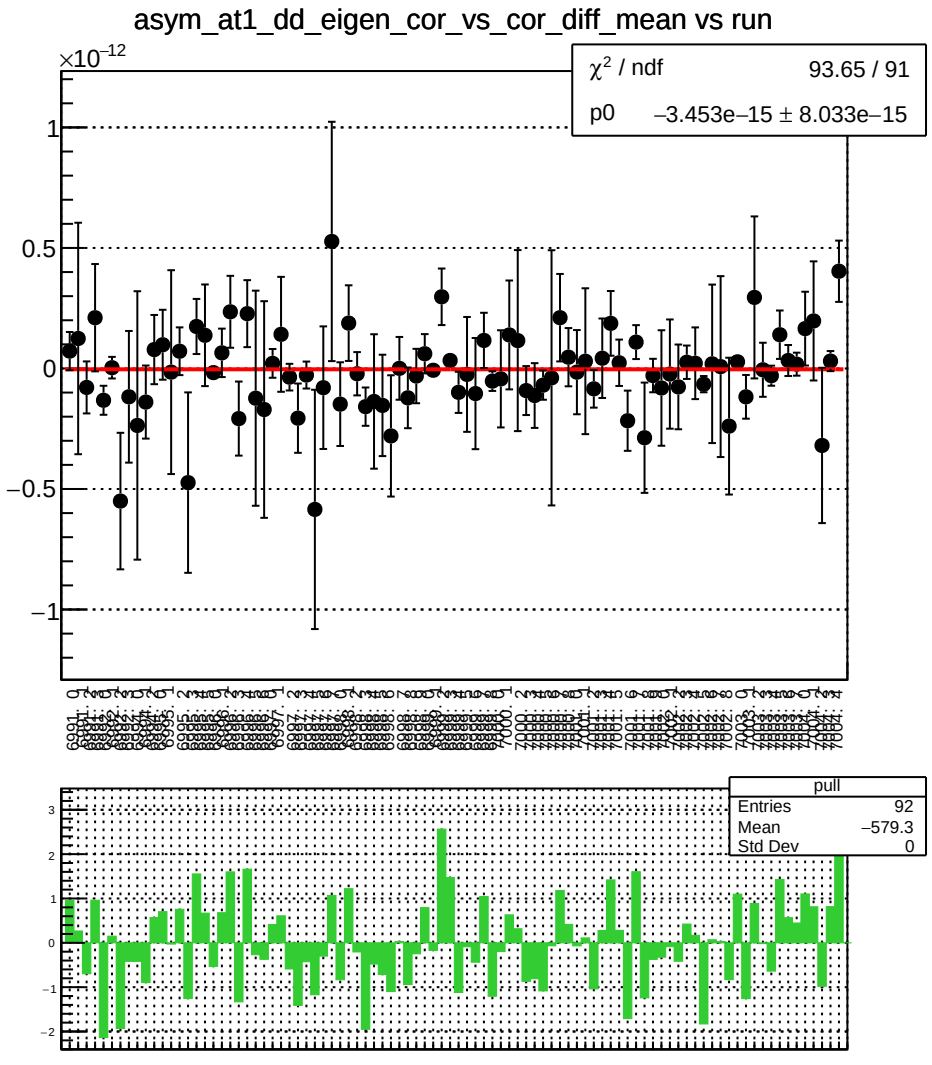

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.81 / 91
p0 0.05424 ± 0.03215
pull
Entries 92
Mean 90.5
Std Dev 0

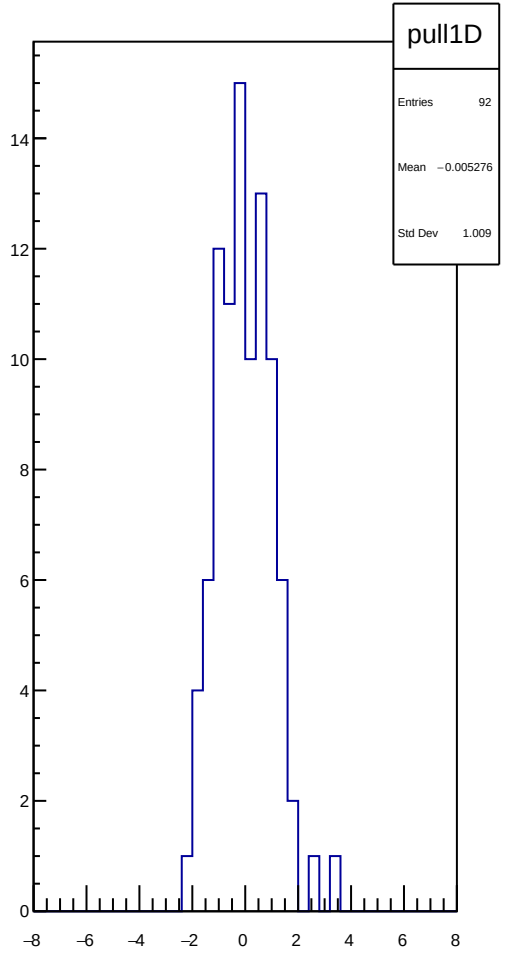

pull1D
Entries 92
Mean 0.07954
Std Dev 0.8982

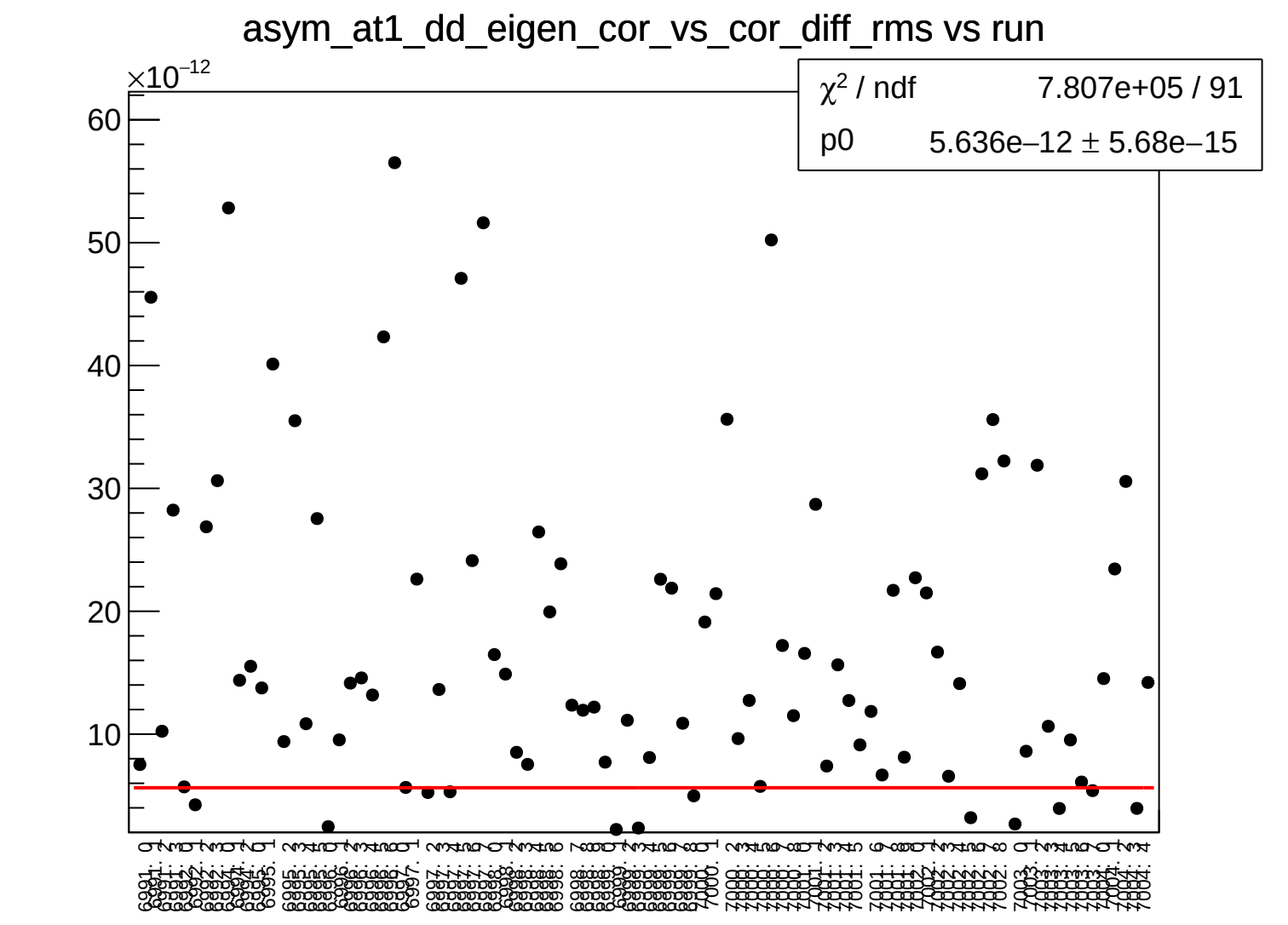

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.407e+05 / 91
p0 26.17 ± 0.02274
90
80
70
60
50
40
30
20
10

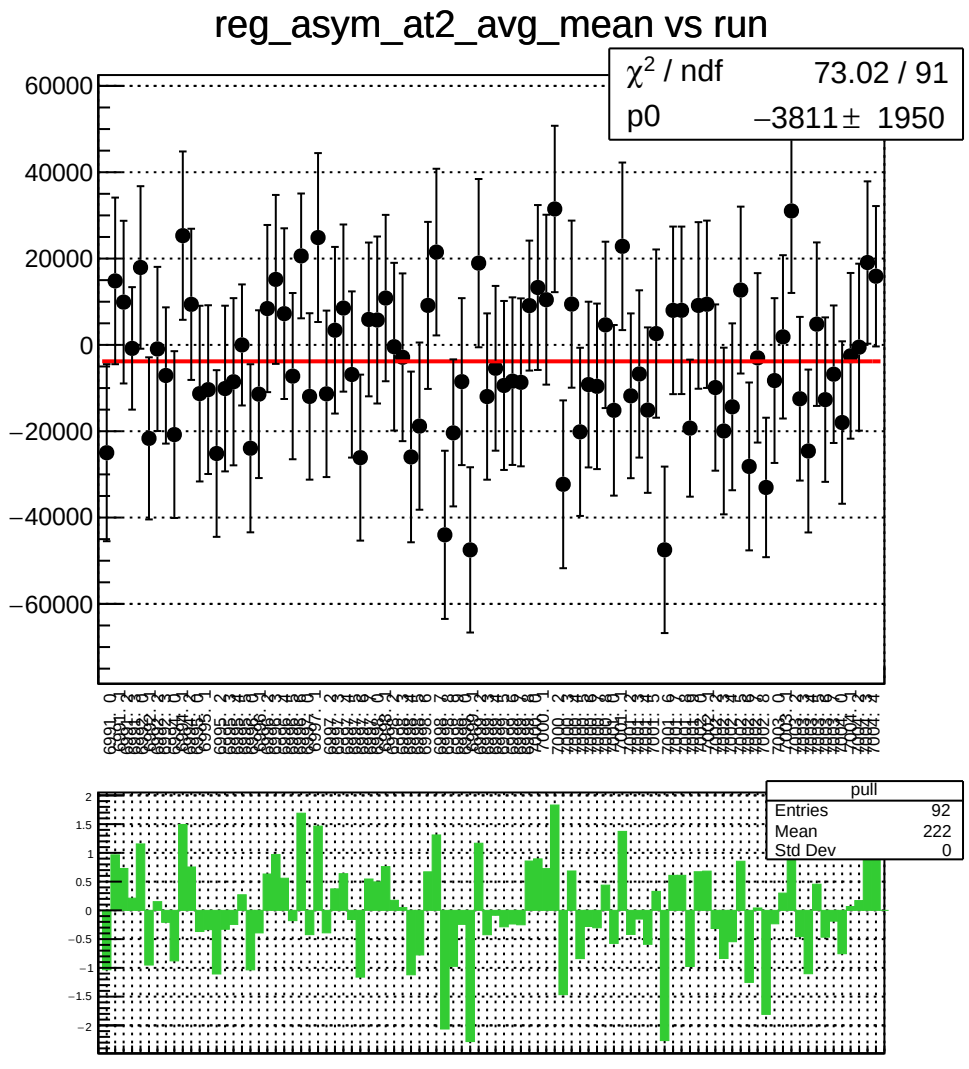

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.81 / 91
p0 0.05424 ± 0.03215
pull
Entries 92
Mean 90.5
Std Dev 0
pull1D
Entries 92
Mean 0.07954
Std Dev 0.8982

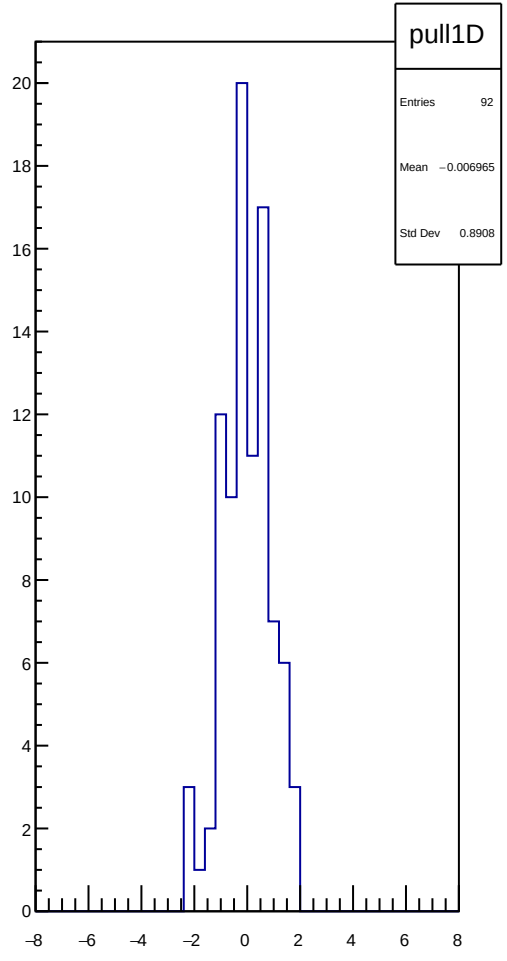

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.407e+05 / 91
p0 26.17 ± 0.02274
90
80
70
60
50
40
30
20
10

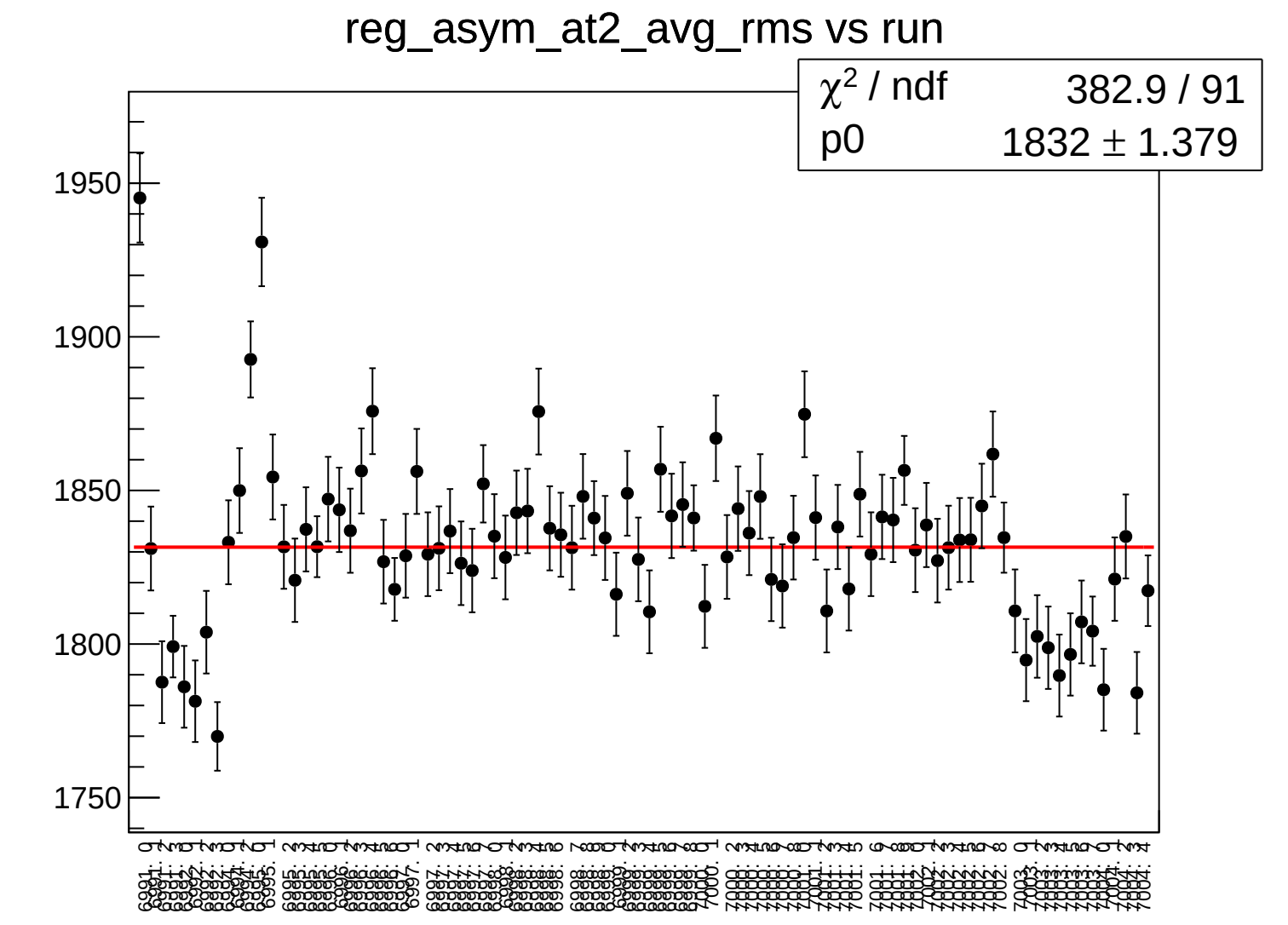

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.65 / 91
p0 −3.453e−15 ± 8.033e−15
1
0.5
0
−0.5
−1
pull
Entries 92
Mean −579.3
Std Dev 0
3
2
1
0
−1
−2

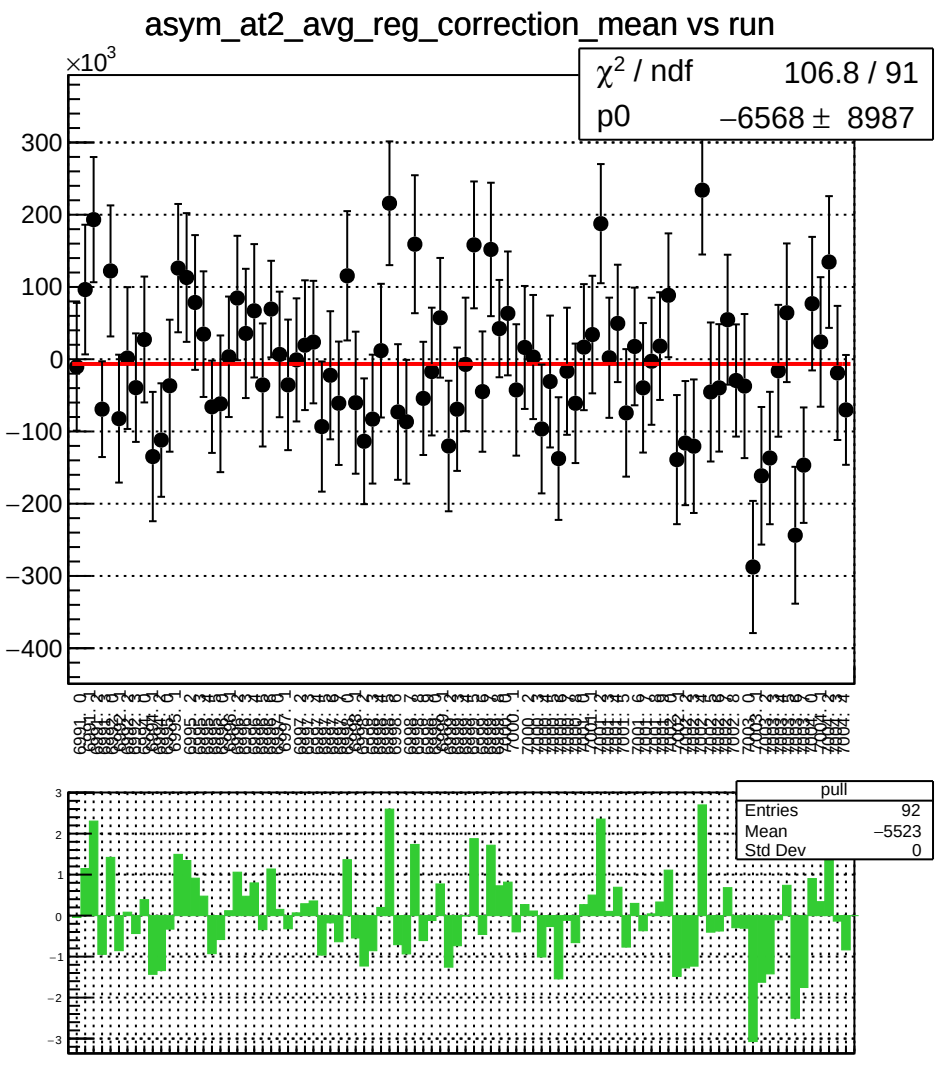

pull1D
Entries 92
Mean −0.005276
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

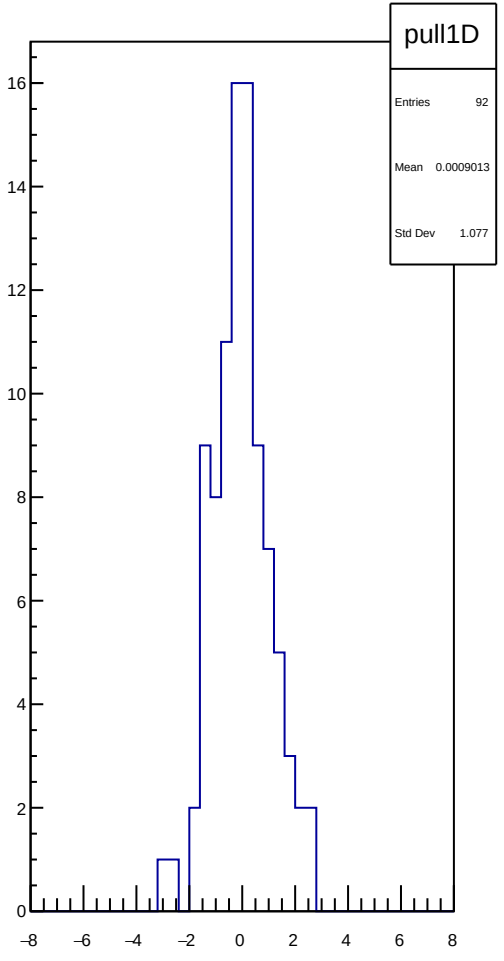

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.807e+05 / 91
p0 5.636e−12 ± 5.68e−15
60
50
40
30
20
10

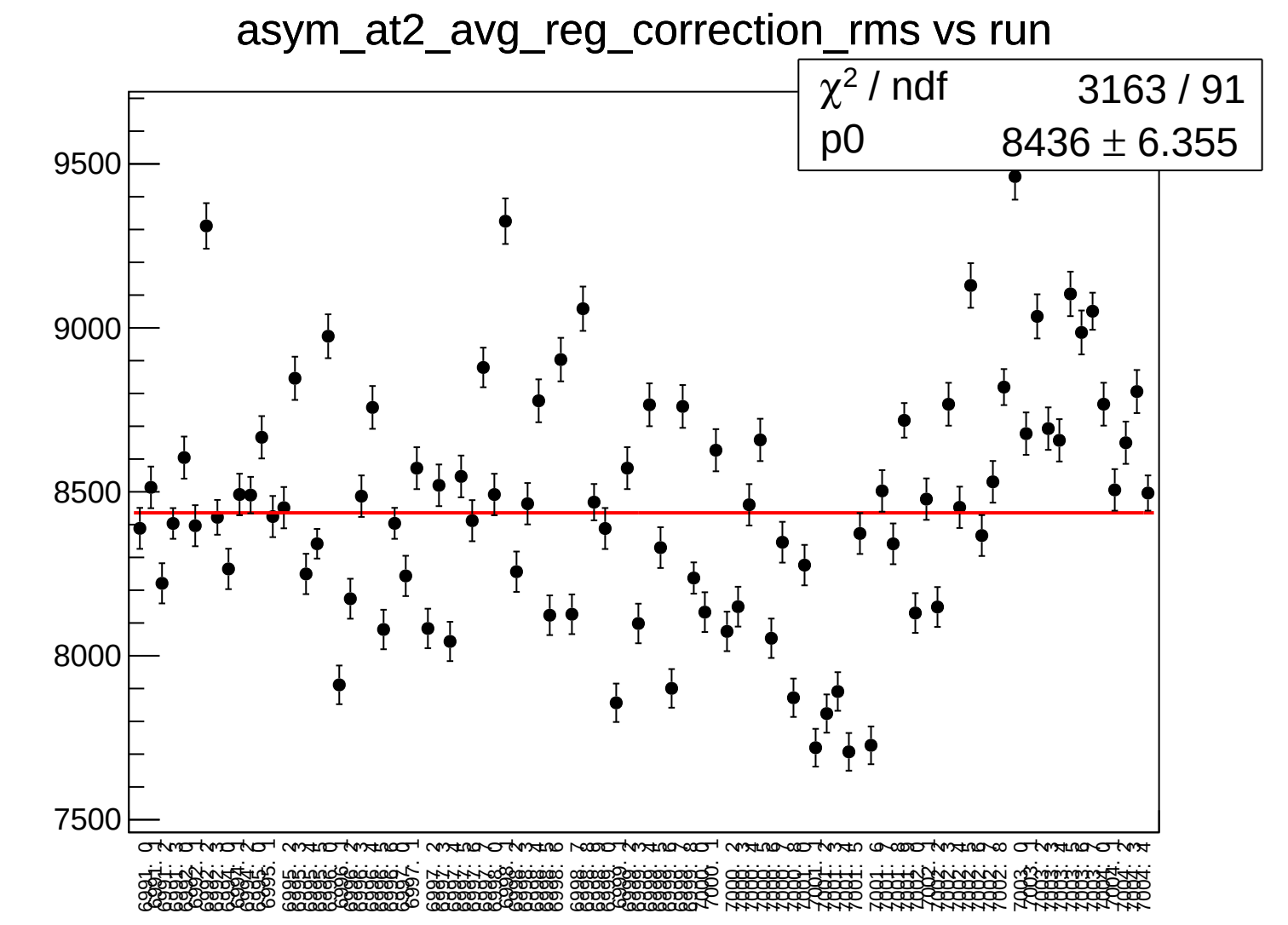

reg_asym_at2_avg_mean vs run
χ² / ndf 73.02 / 91
p0 −3811 ± 1950
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 222
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

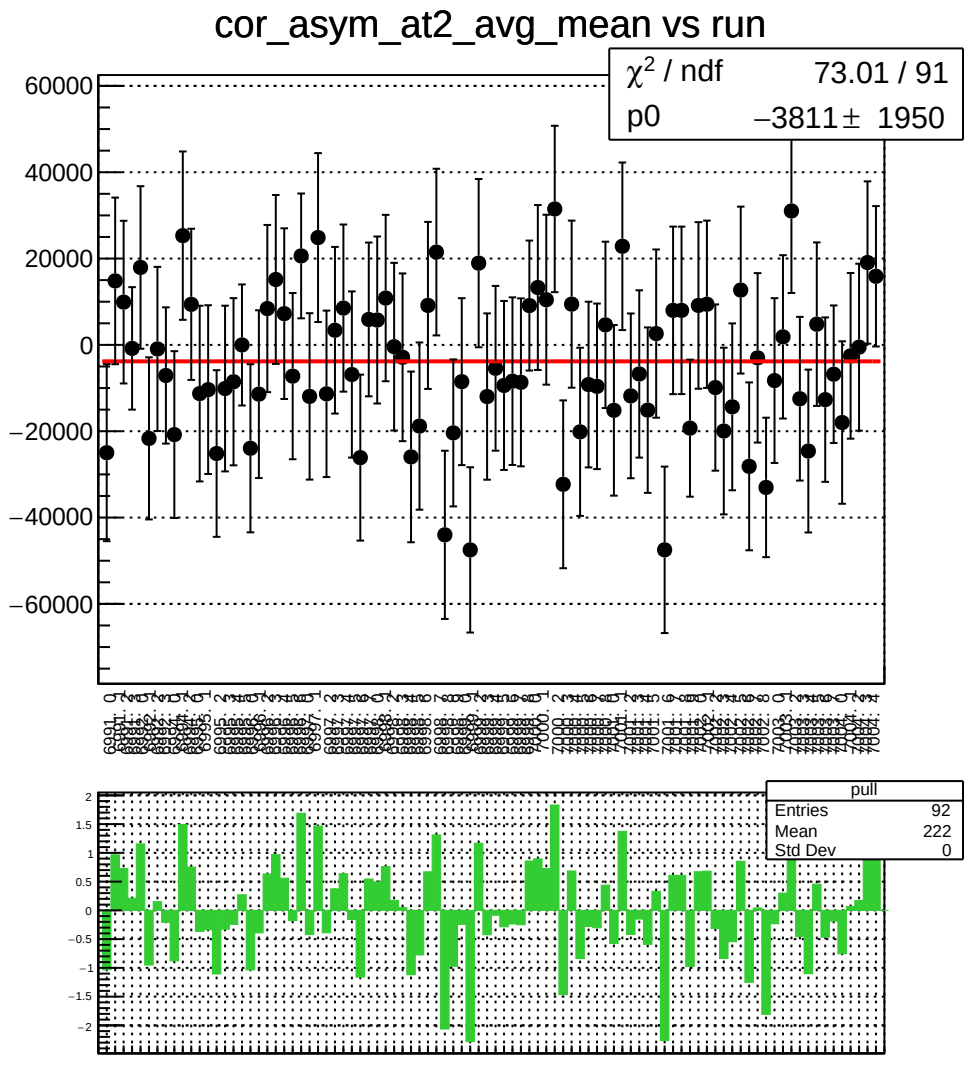

pull1D
Entries 92
Mean −0.006965
Std Dev 0.8908
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

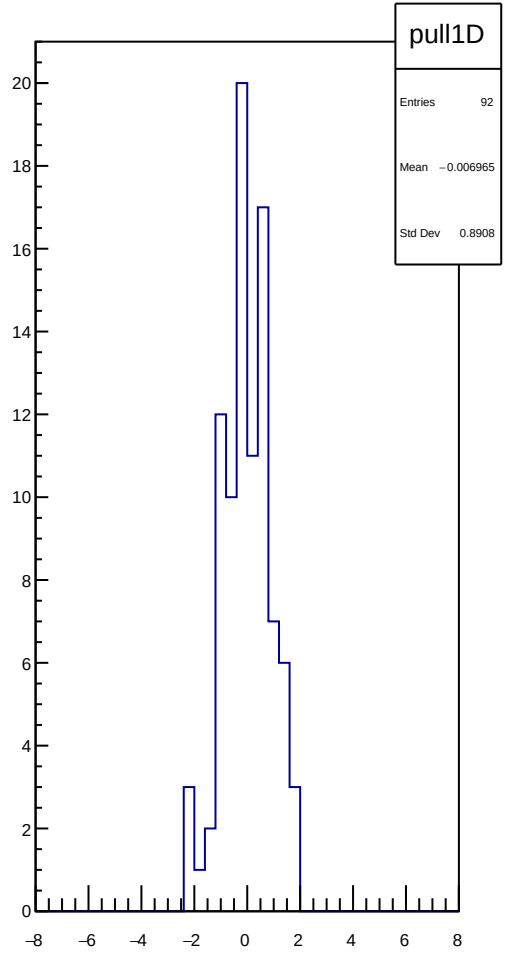

reg_asym_at2_avg_rms vs run
χ² / ndf 382.9 / 91
p0 1832 ± 1.379
1950
1900
1850
1800
1750

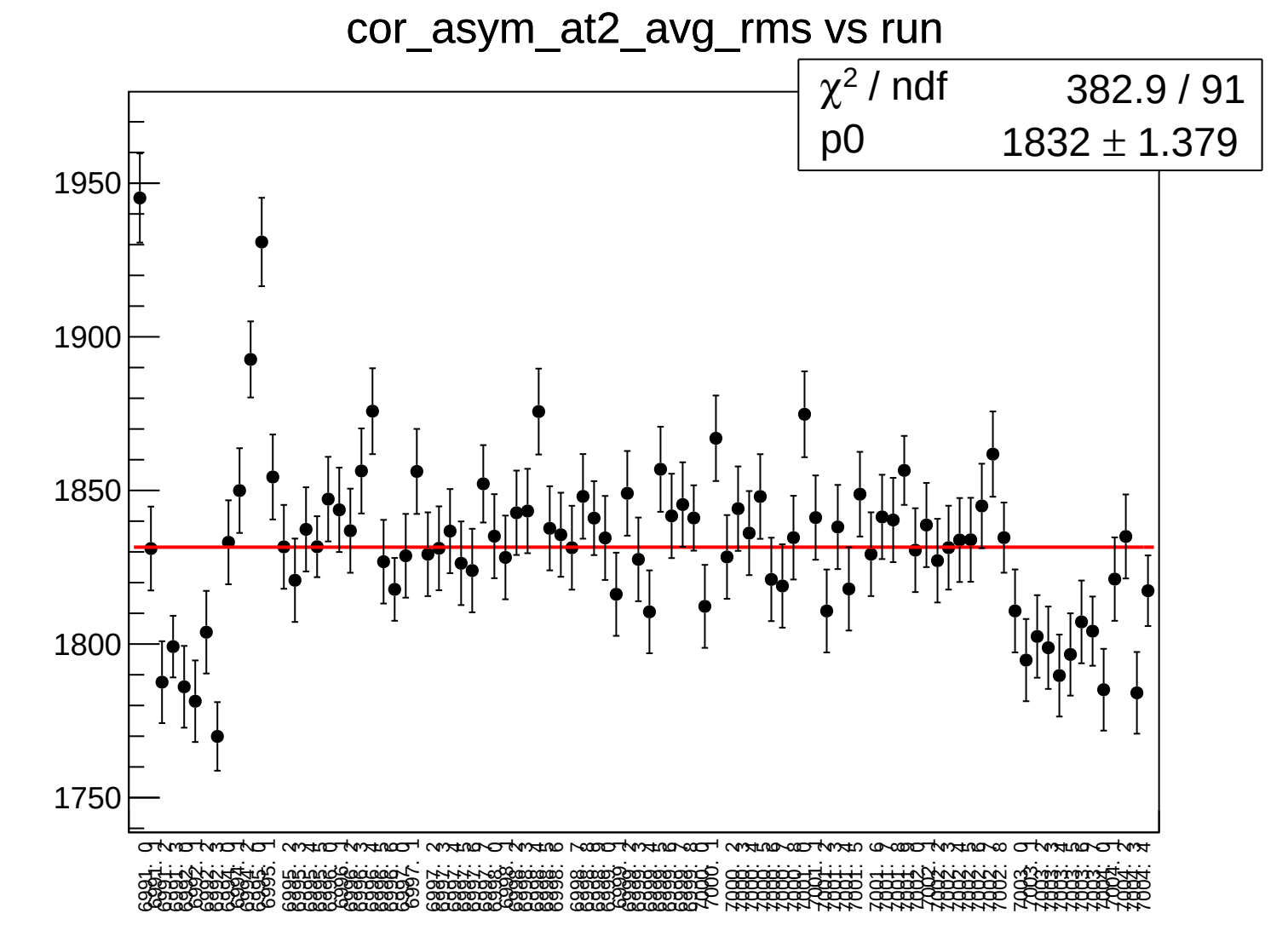

asym_at2_avg_reg_correction_mean vs run
χ^2 / ndf 106.8 / 91
p0 −6568 ± 8987
×10^3
pull
Entries 92
Mean −5523
Std Dev 0

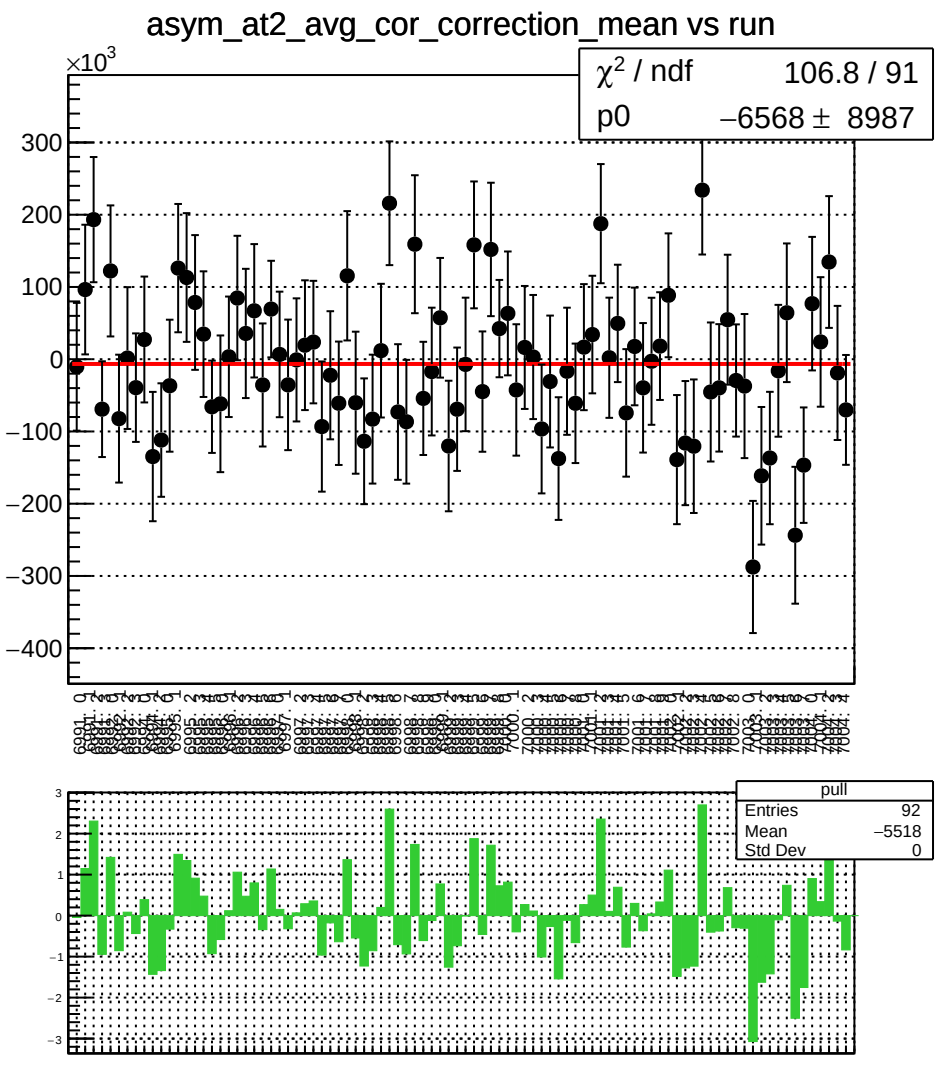

pull1D
Entries 92
Mean 0.0009013
Std Dev 1.077

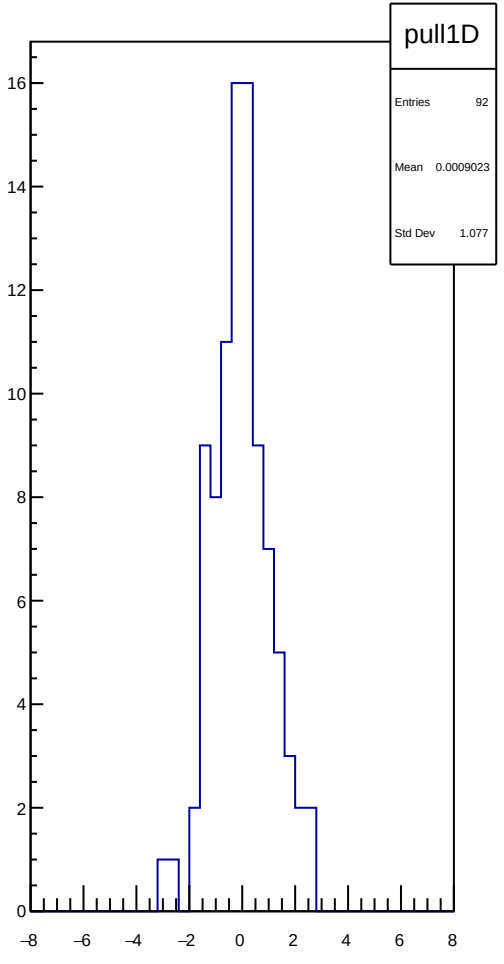

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3163 / 91
p0 8436 ± 6.355
9500
9000
8500
8000
7500

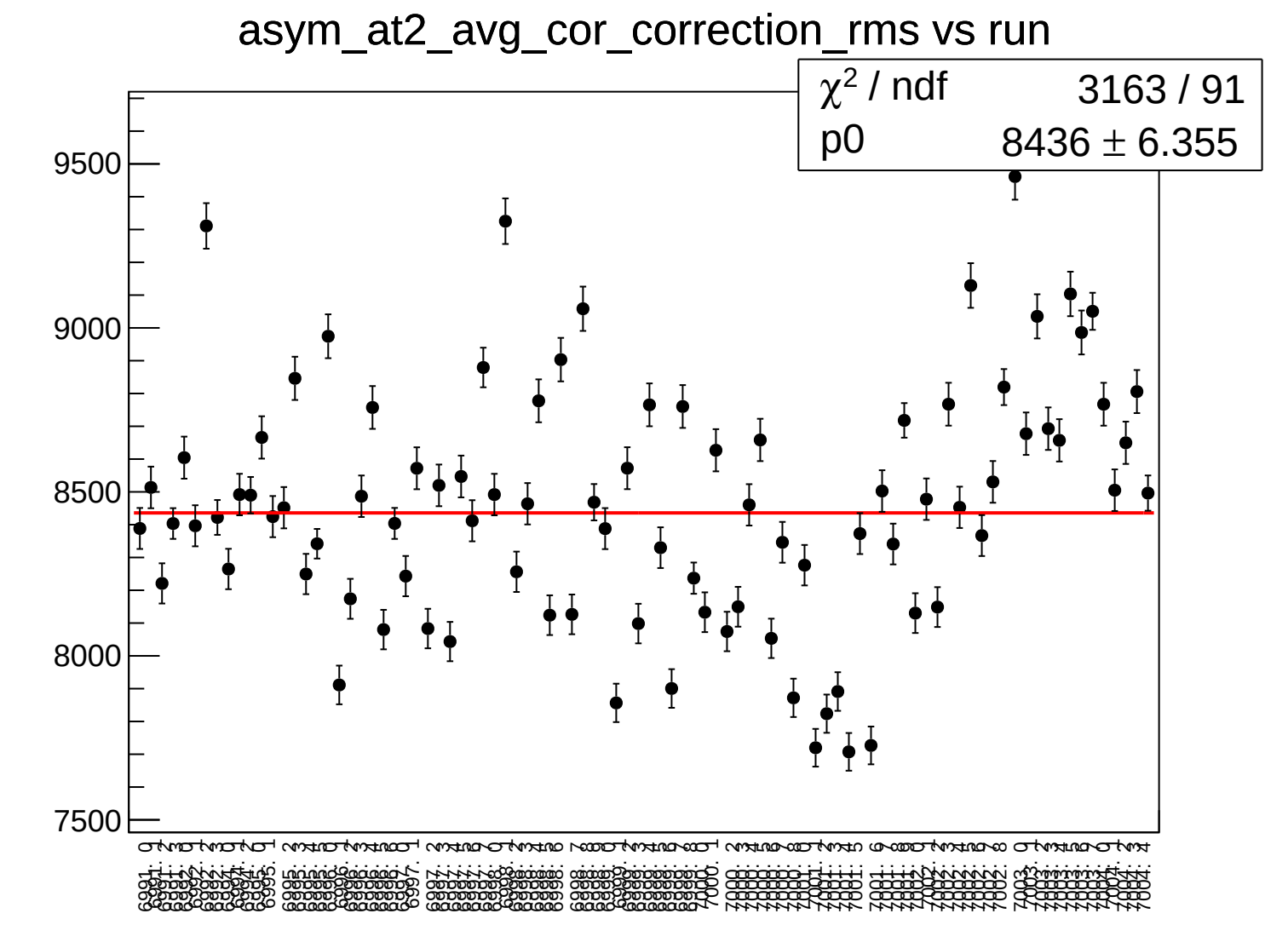

cor_asym_at2_avg_mean vs run
χ² / ndf 73.01 / 91
p0 −3811 ± 1950
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 222
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

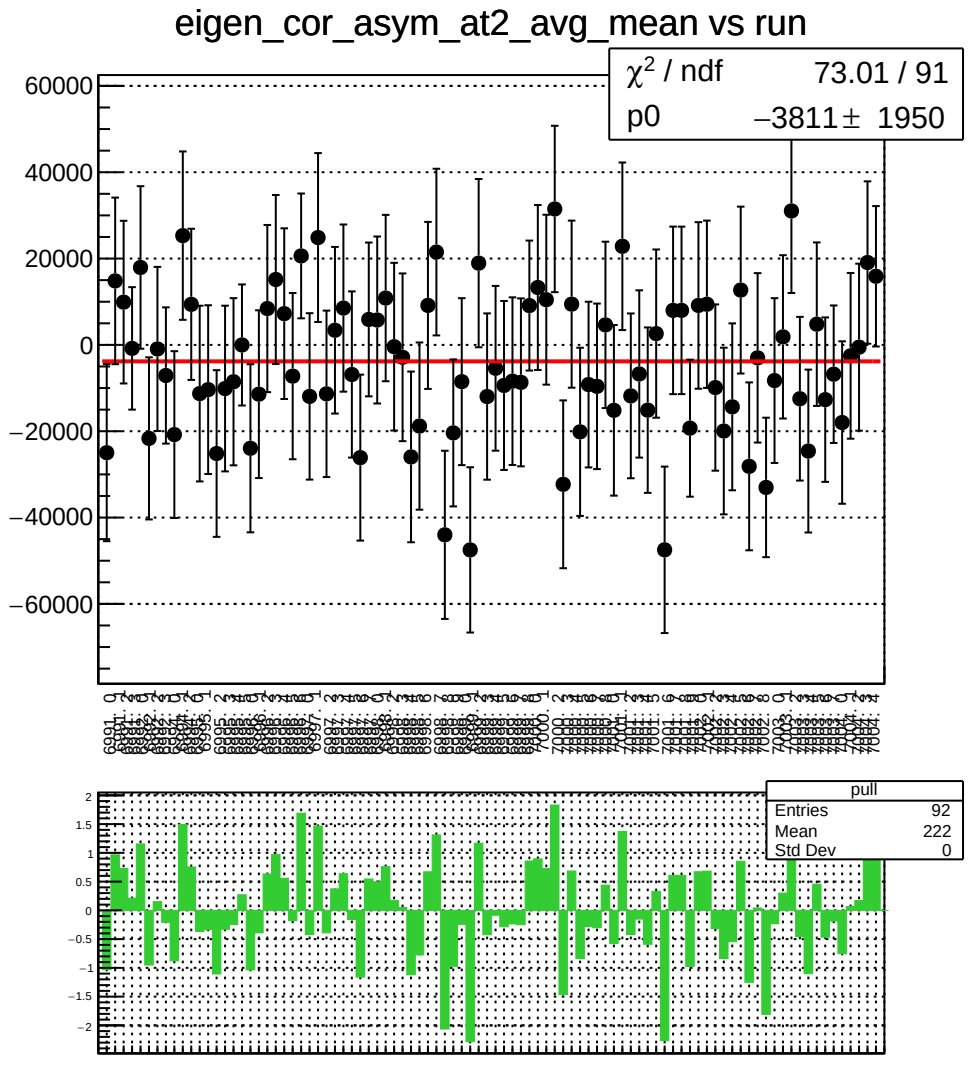

pull1D
Entries 92
Mean −0.006965
Std Dev 0.8908
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

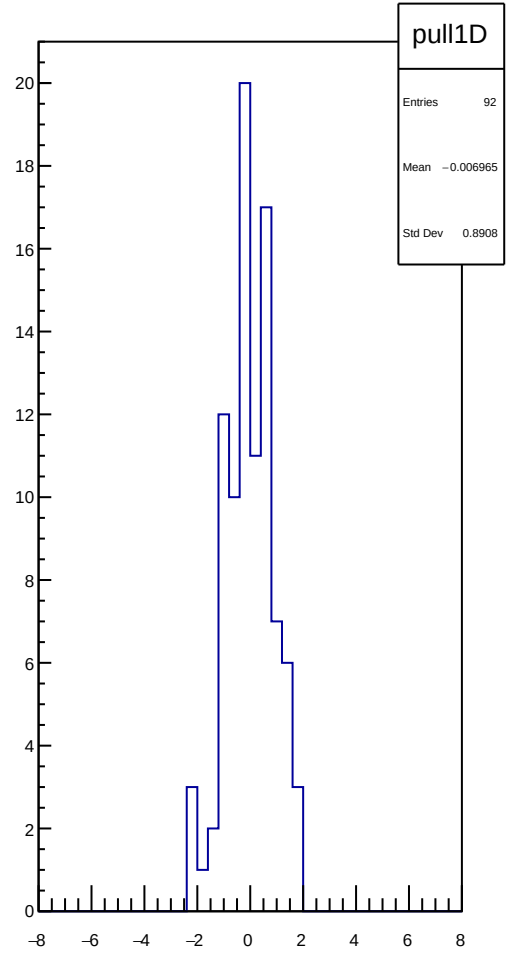

cor_asym_at2_avg_rms vs run
χ^2 / ndf 382.9 / 91
p0 1832 ± 1.379
1950
1900
1850
1800
1750

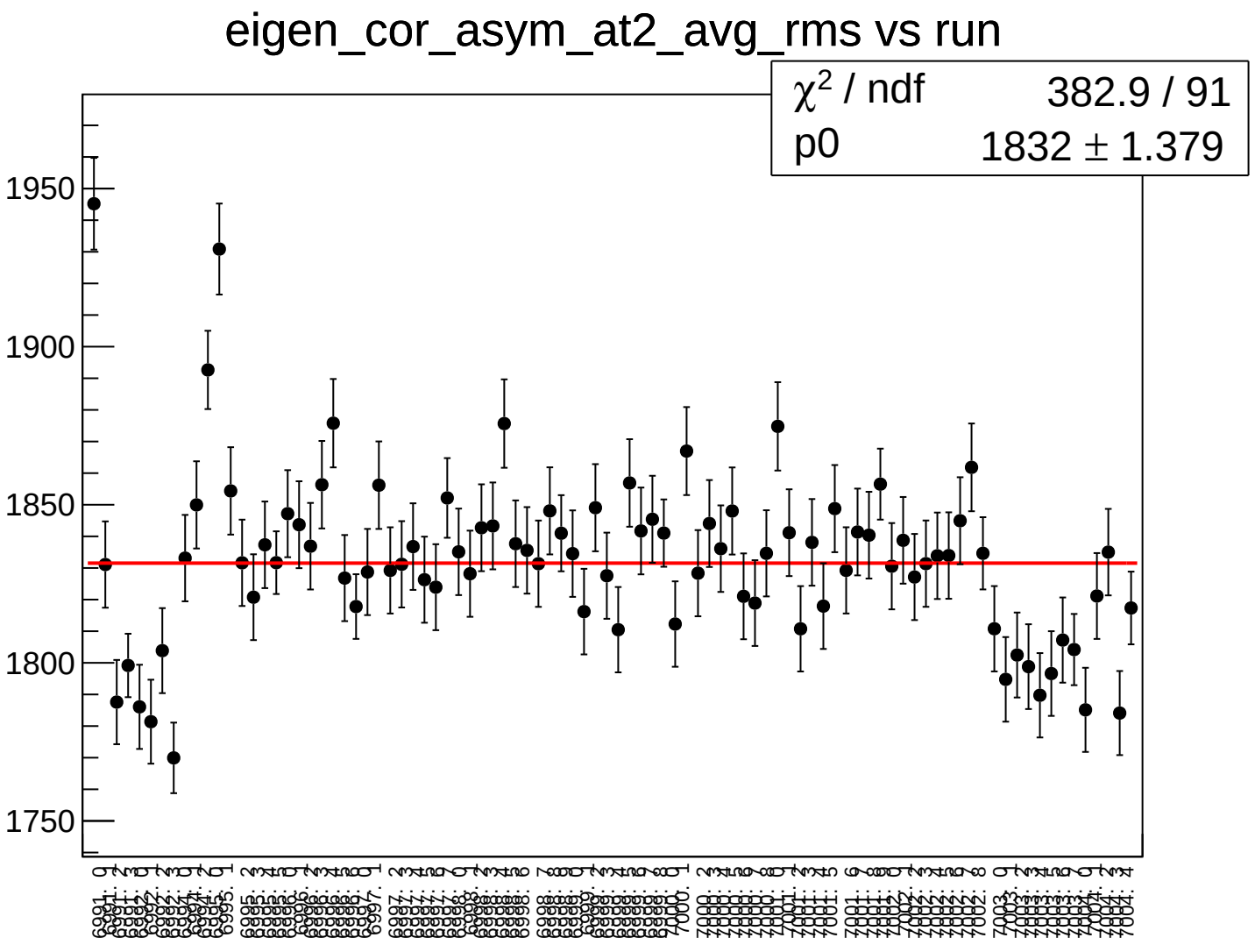

asym_at2_avg_cor_correction_mean vs run
χ^2 / ndf 106.8 / 91
p0 −6568 ± 8987
×10^3
pull
Entries 92
Mean −5518
Std Dev 0

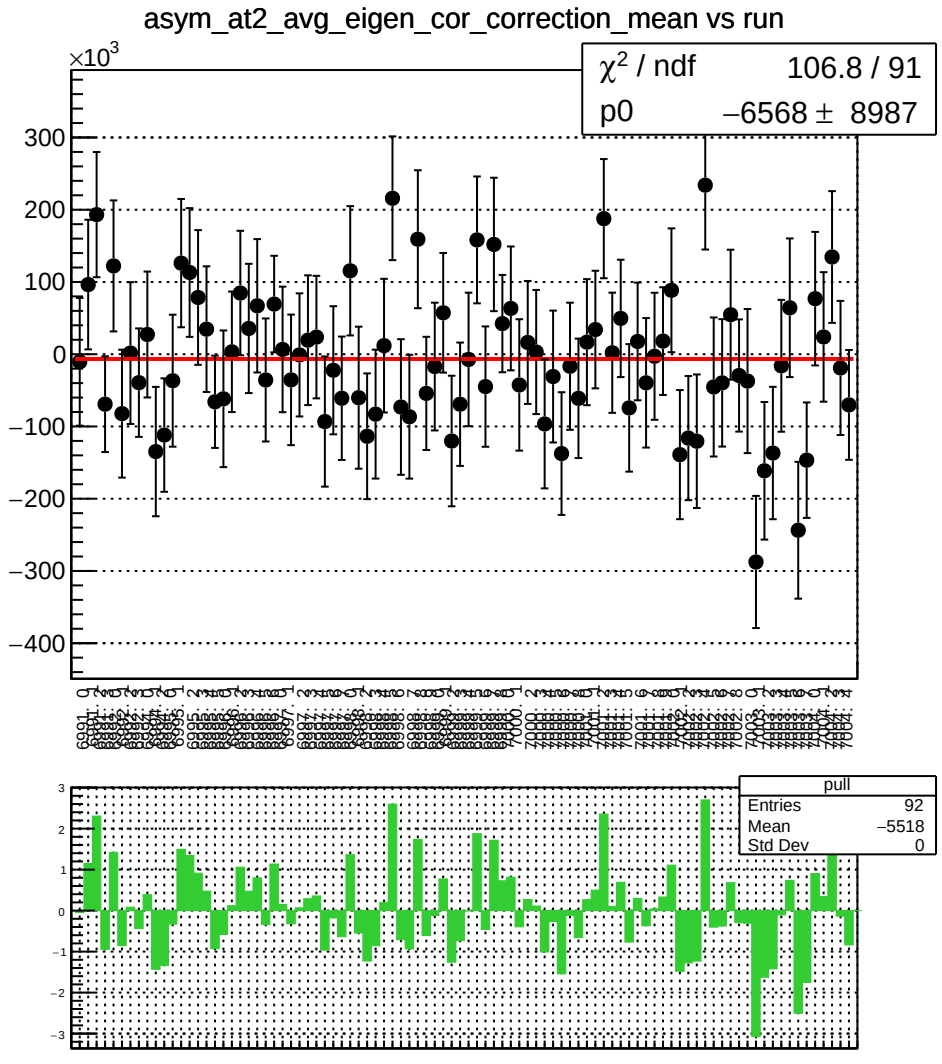

pull1D
Entries 92
Mean 0.0009023
Std Dev 1.077

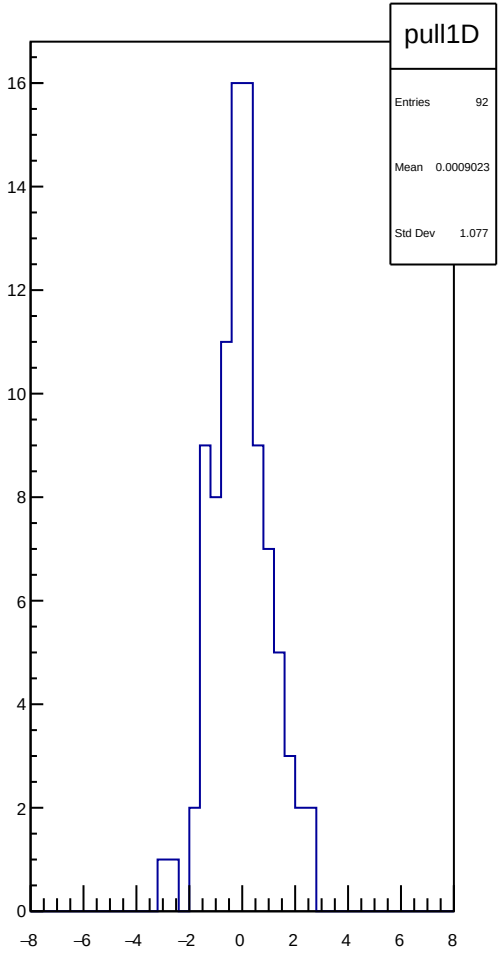

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 3163 / 91
p0 8436 ± 6.355
9500
9000
8500
8000
7500

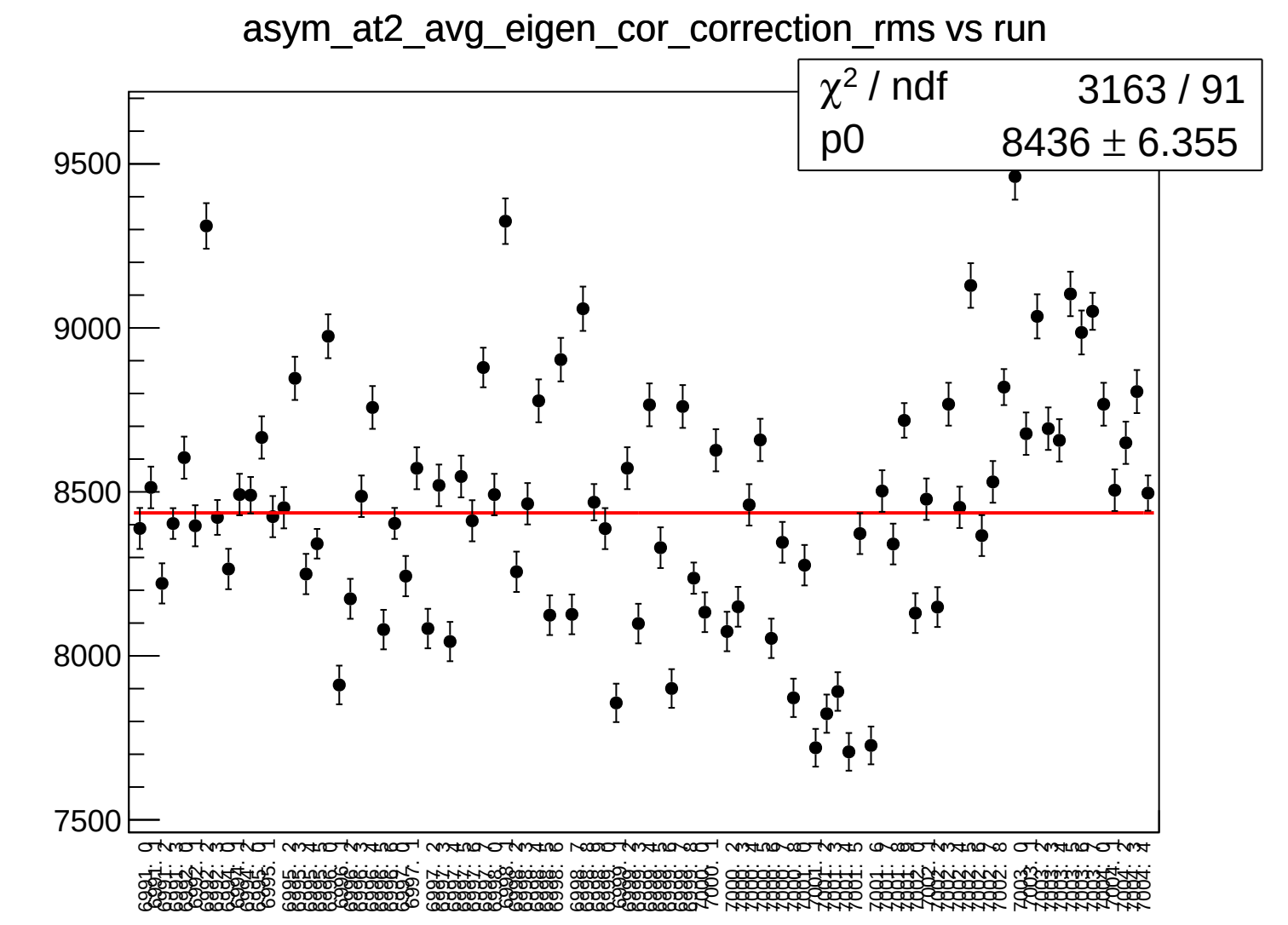

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 73.01 / 91
p0 −3811 ± 1950
pull
Entries 92
Mean 222
Std Dev 0

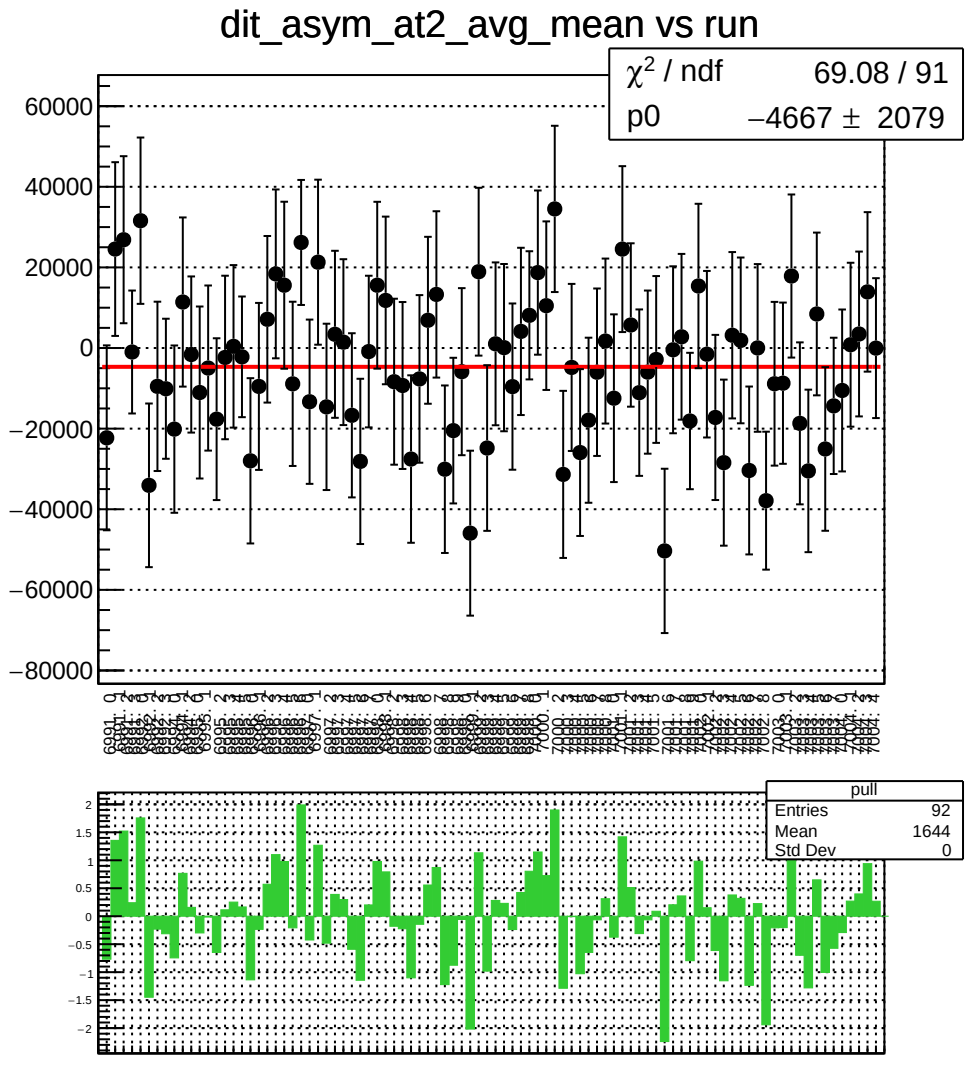

pull1D
Entries 92
Mean −0.006965
Std Dev 0.8908

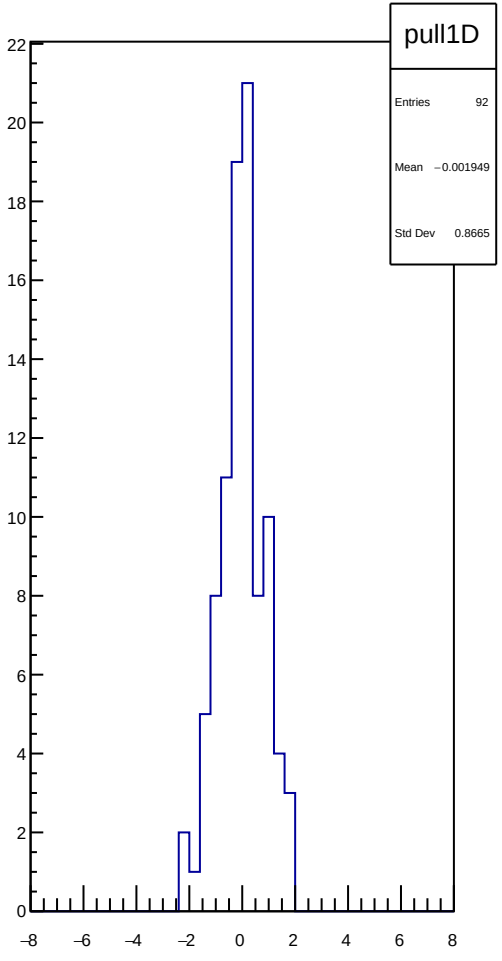

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 382.9 / 91
p0 1832 ± 1.379
1950
1900
1850
1800
1750

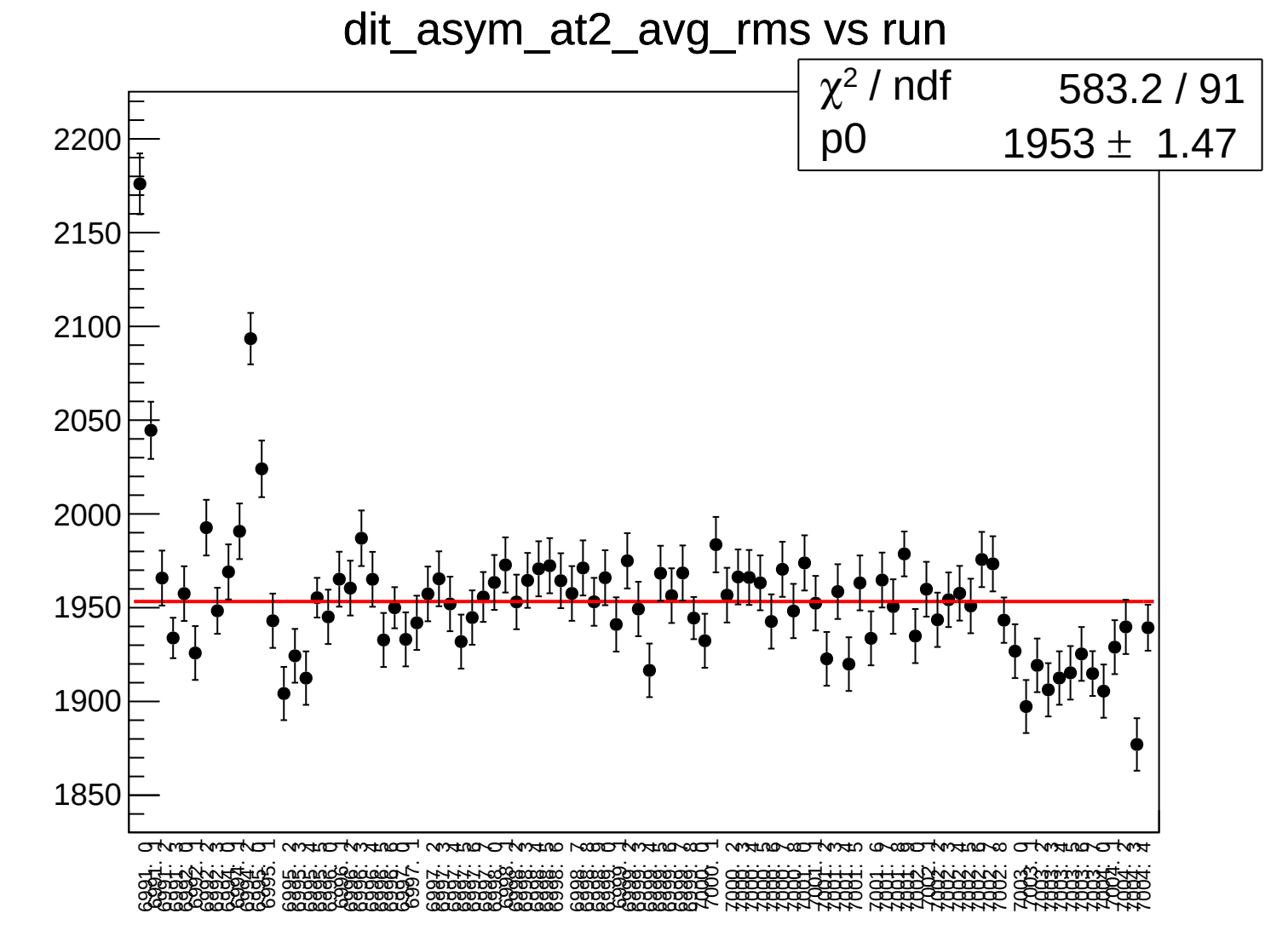

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.8 / 91
p0 −6568 ± 8987
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −5518
Std Dev 0
3
2
1
0
−1
−2
−3

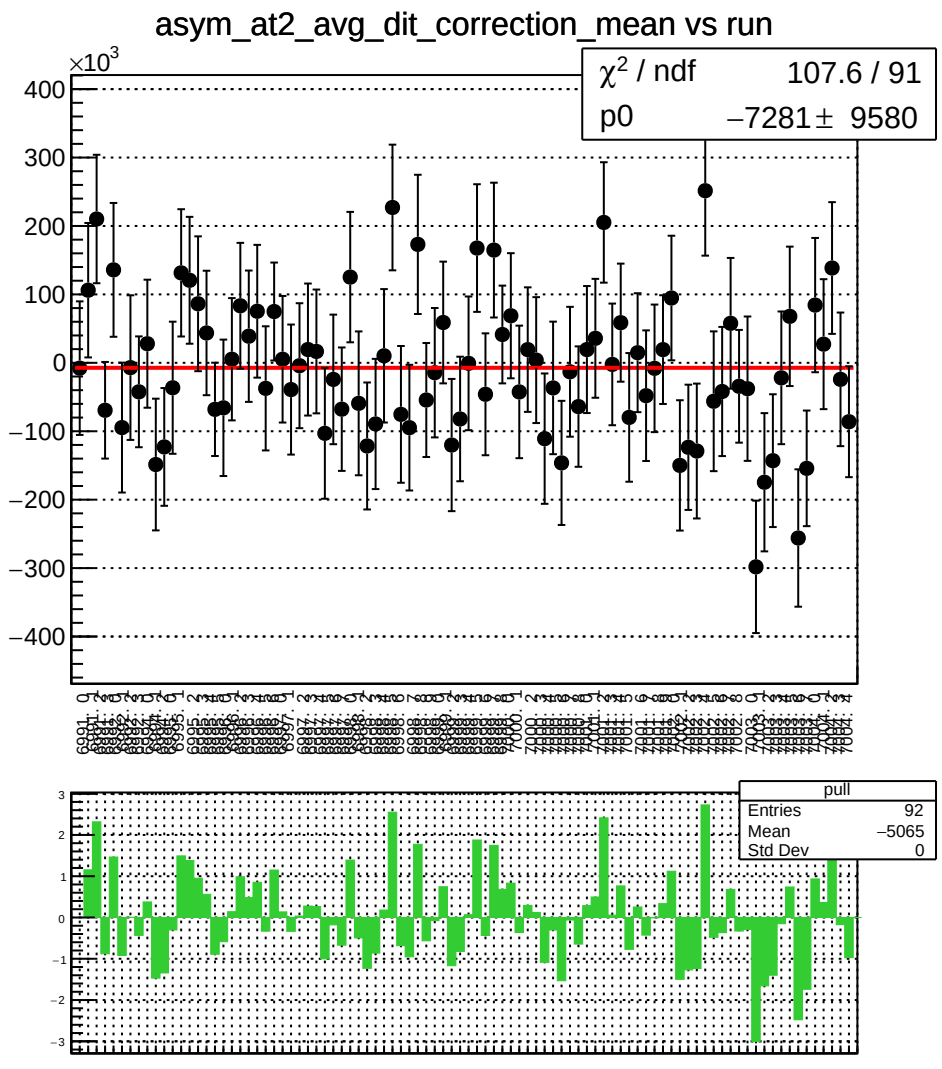

pull1D
Entries 92
Mean 0.0009023
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

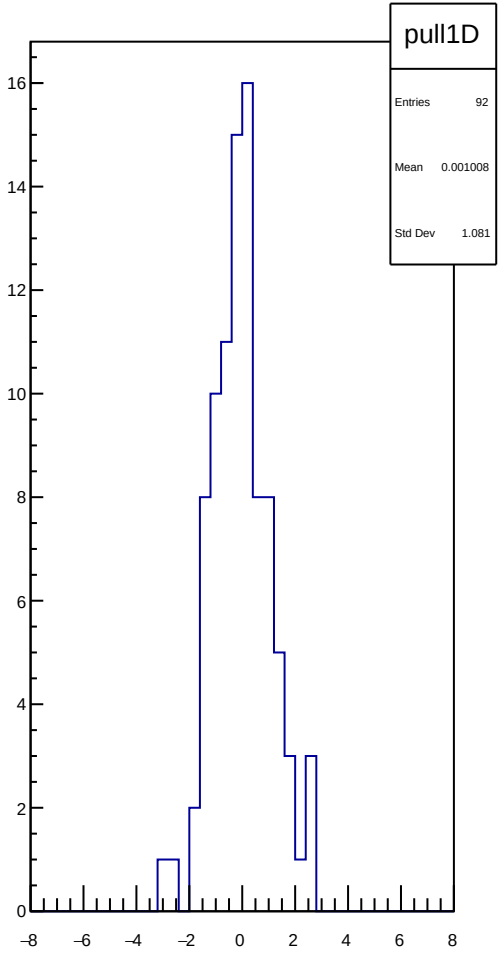

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3163 / 91
p0 8436 ± 6.355
9500
9000
8500
8000
7500

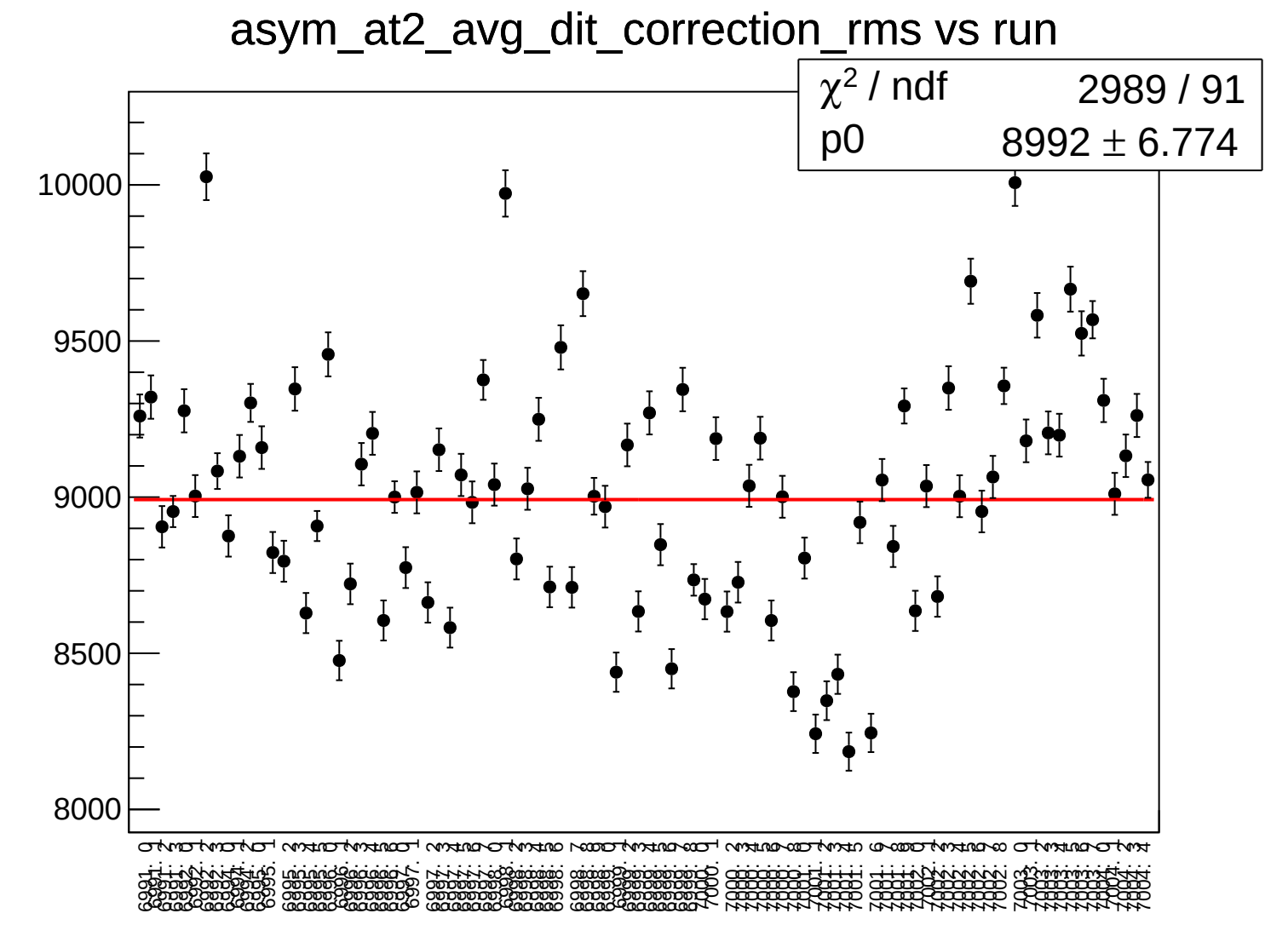

dit_asym_at2_avg_mean vs run
χ² / ndf 69.08 / 91
p0 −4667 ± 2079
pull
Entries 92
Mean 1644
Std Dev 0

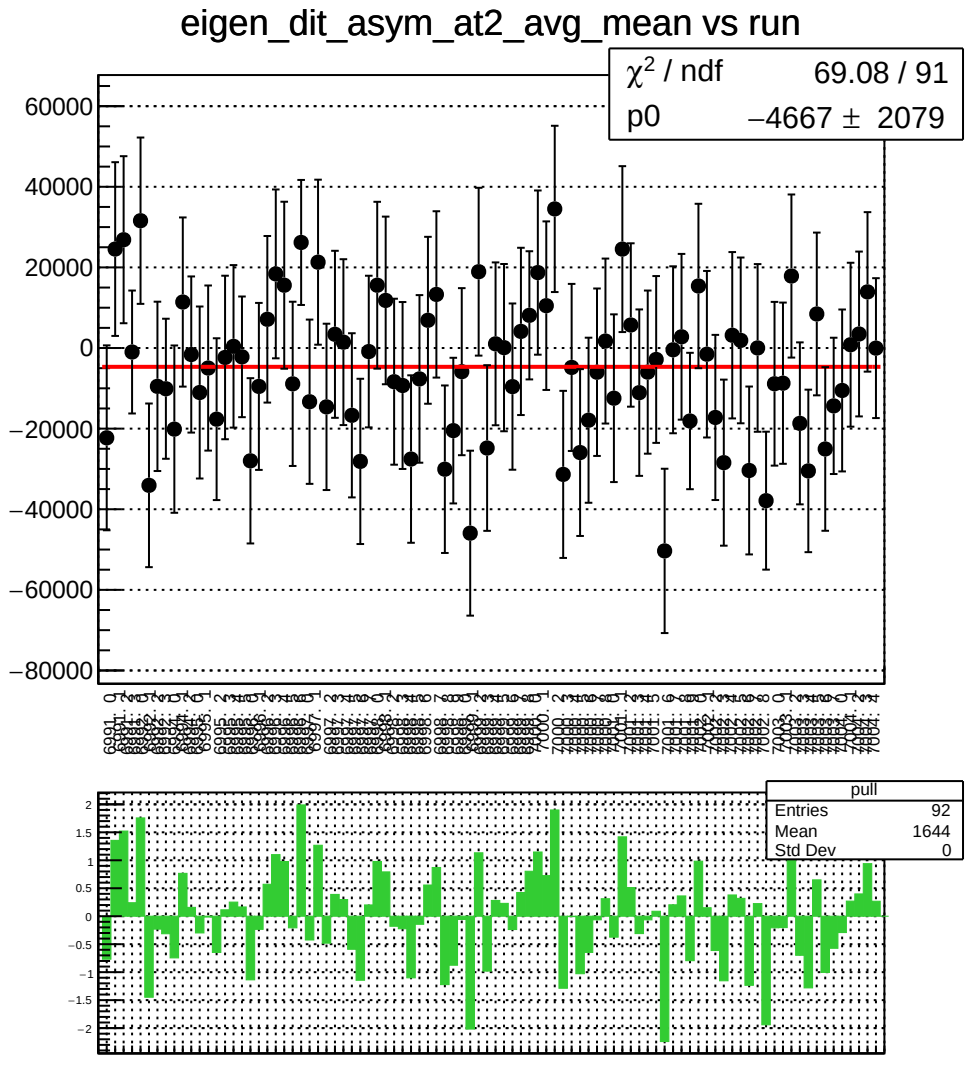

pull1D
Entries 92
Mean −0.001949
Std Dev 0.8665

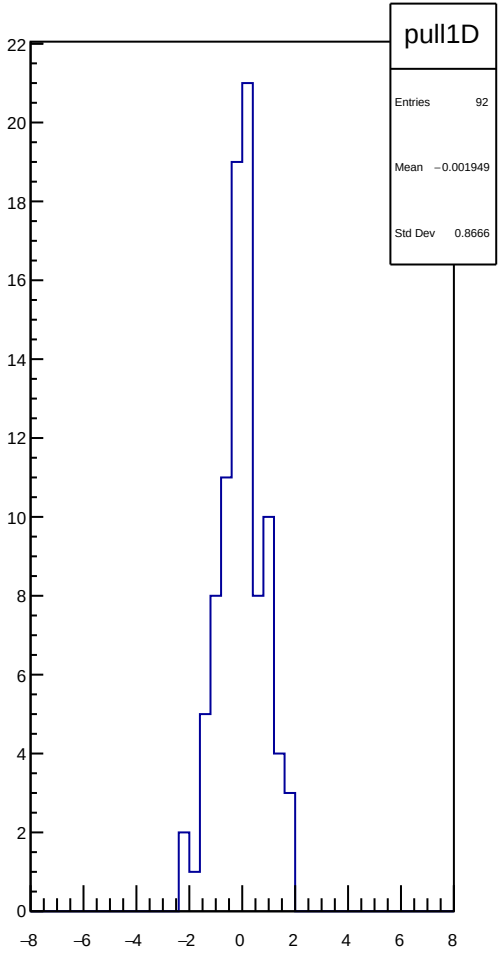

dit_asym_at2_avg_rms vs run
χ² / ndf 583.2 / 91
p0 1953 ± 1.47
2200
2150
2100
2050
2000
1950
1900
1850

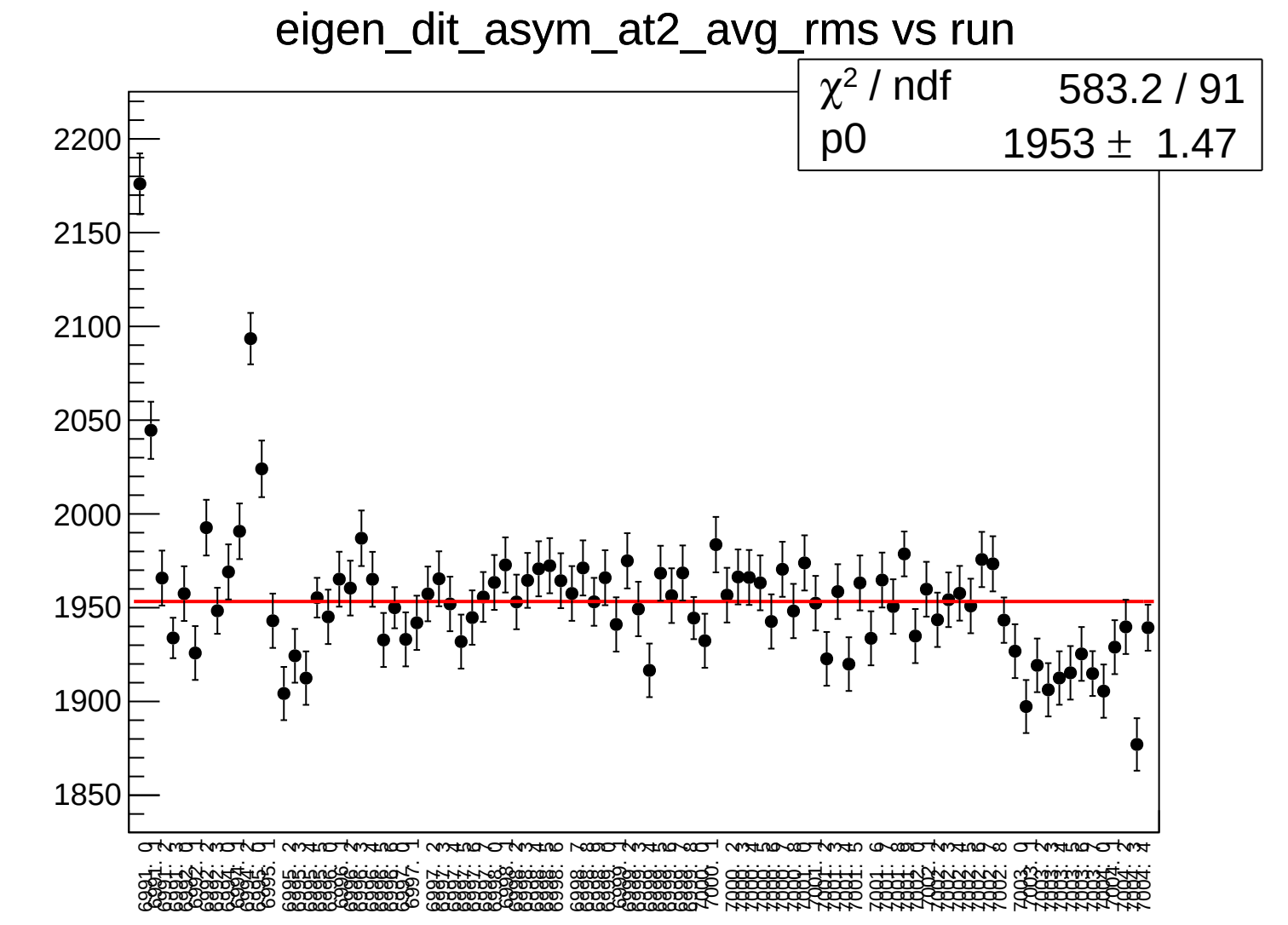

asym_at2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.6 / 91
p0 −7281 ± 9580
pull
Entries 92
Mean −5065
Std Dev 0

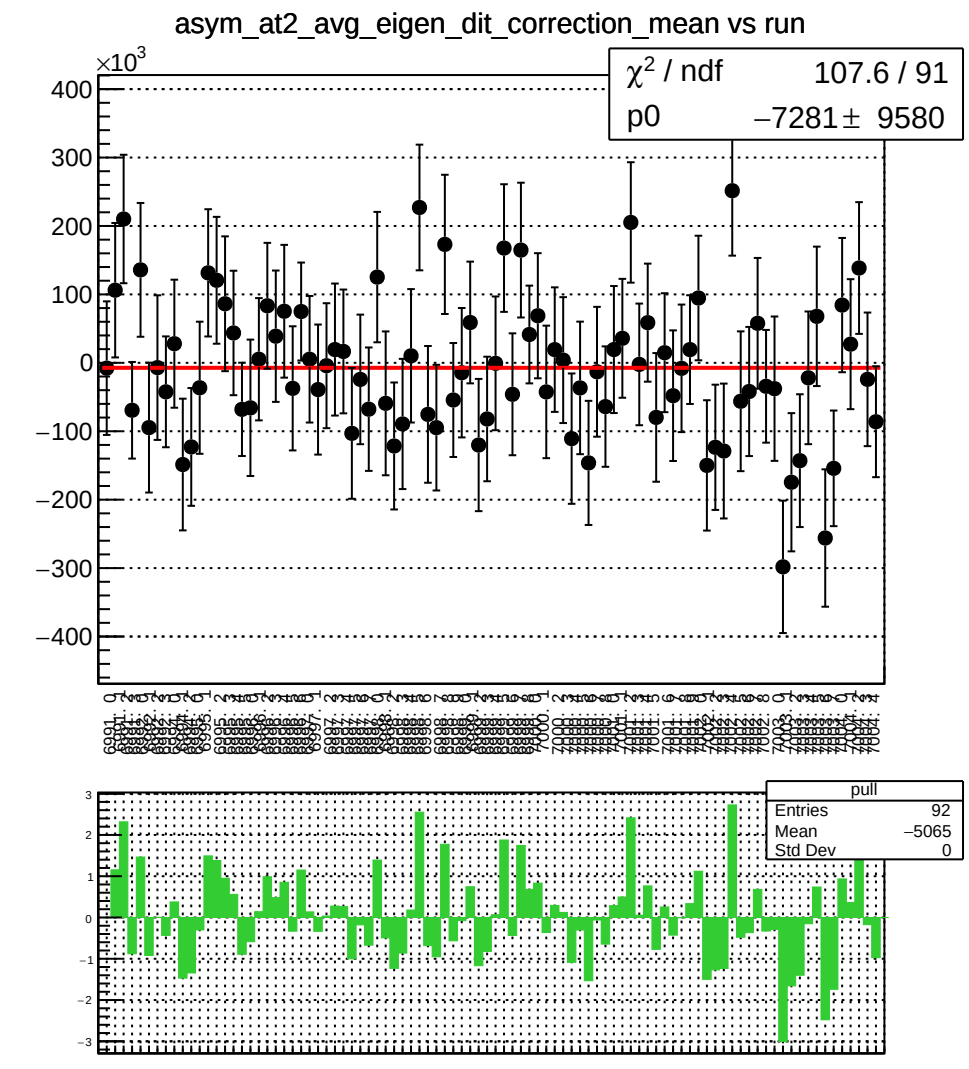

pull1D
Entries 92
Mean 0.001008
Std Dev 1.081

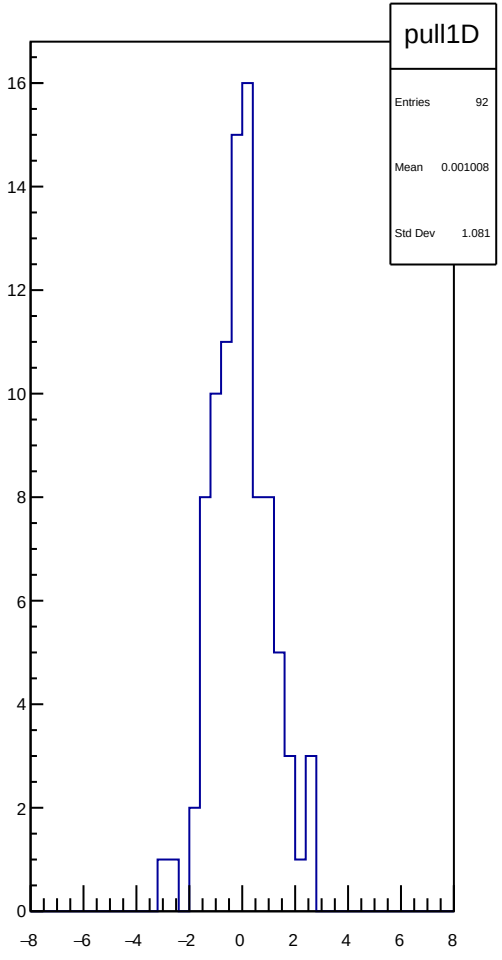

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 2989 / 91
p0 8992 ± 6.774
10000
9500
9000
8500
8000

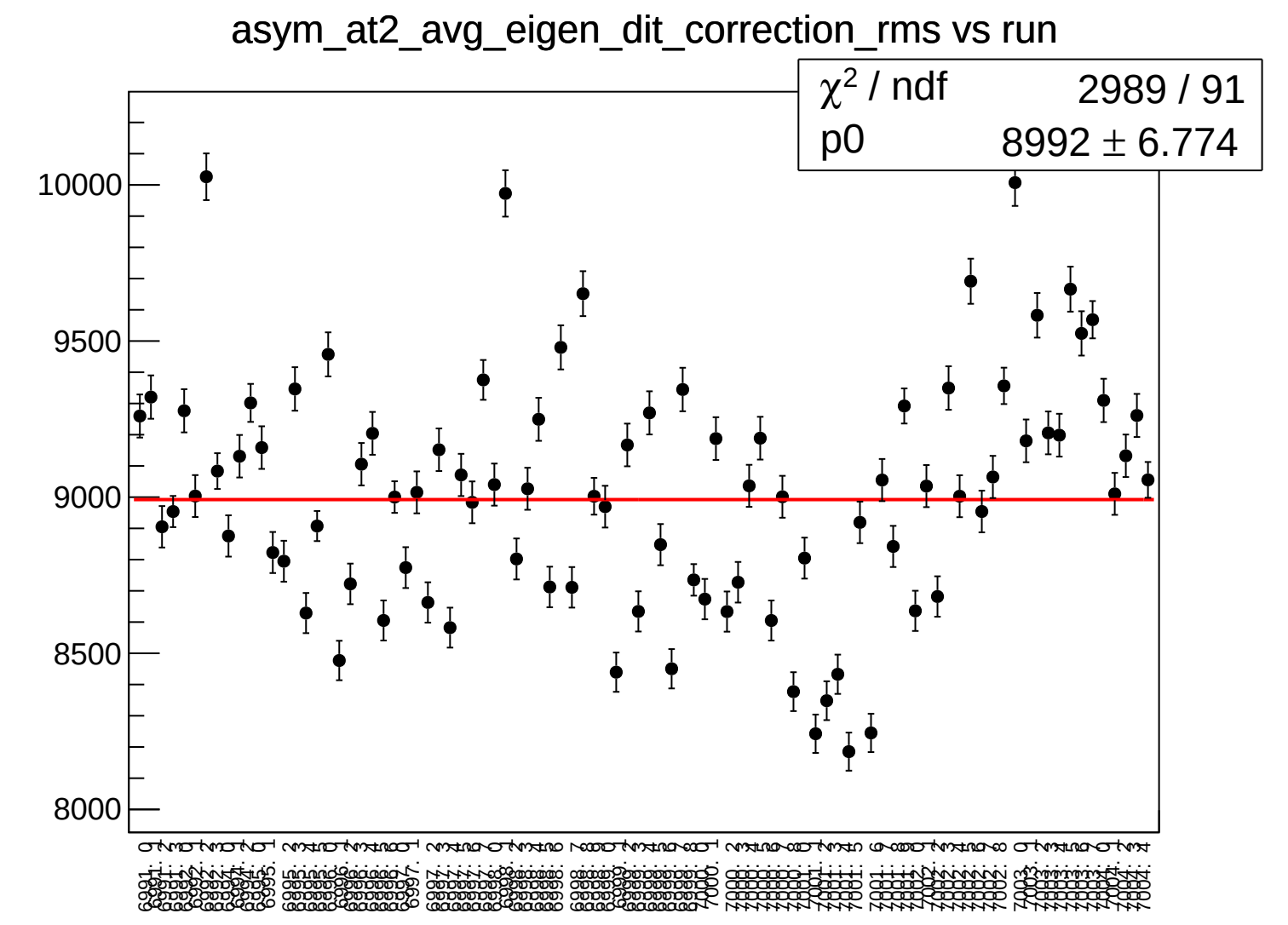

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 69.08 / 91
p0 −4667 ± 2079
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 1644
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

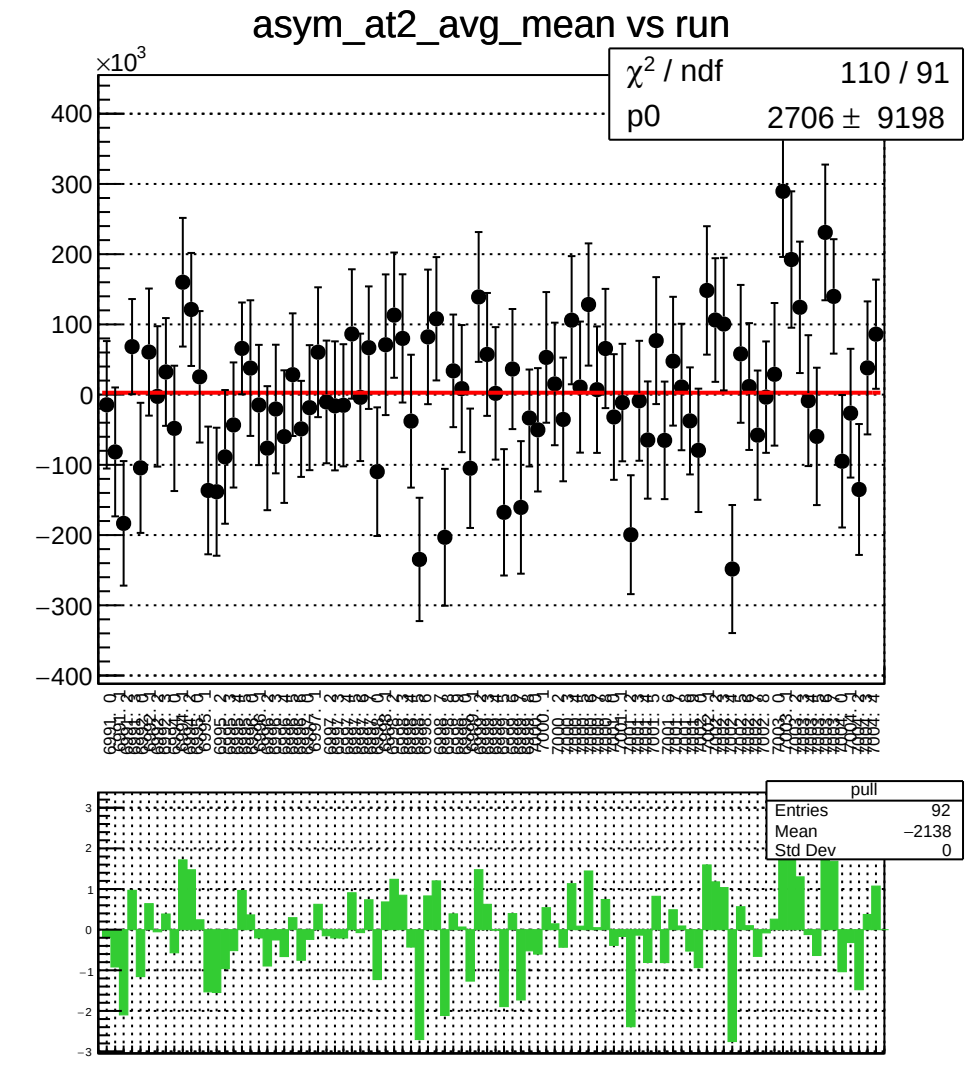

pull1D
Entries 92
Mean −0.001949
Std Dev 0.8666
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

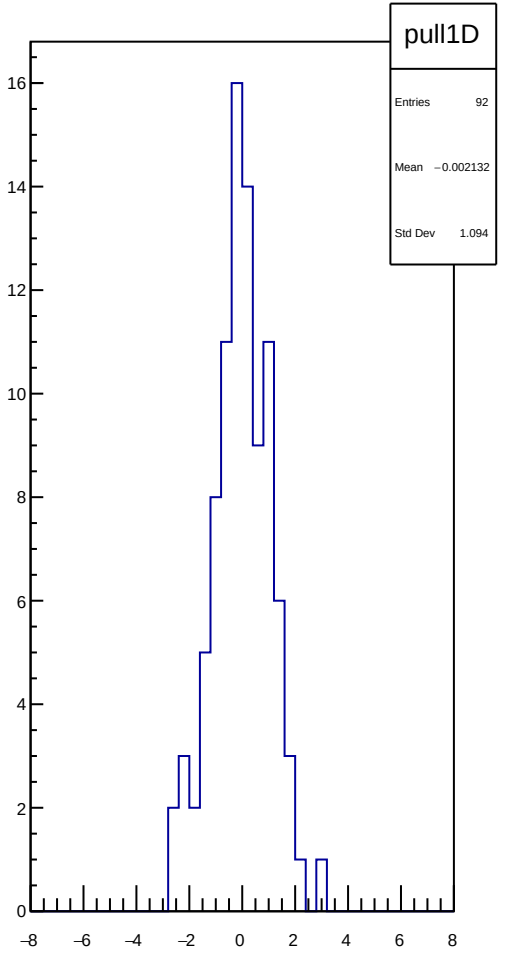

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 583.2 / 91
p0 1953 ± 1.47
2200
2150
2100
2050
2000
1950
1900
1850

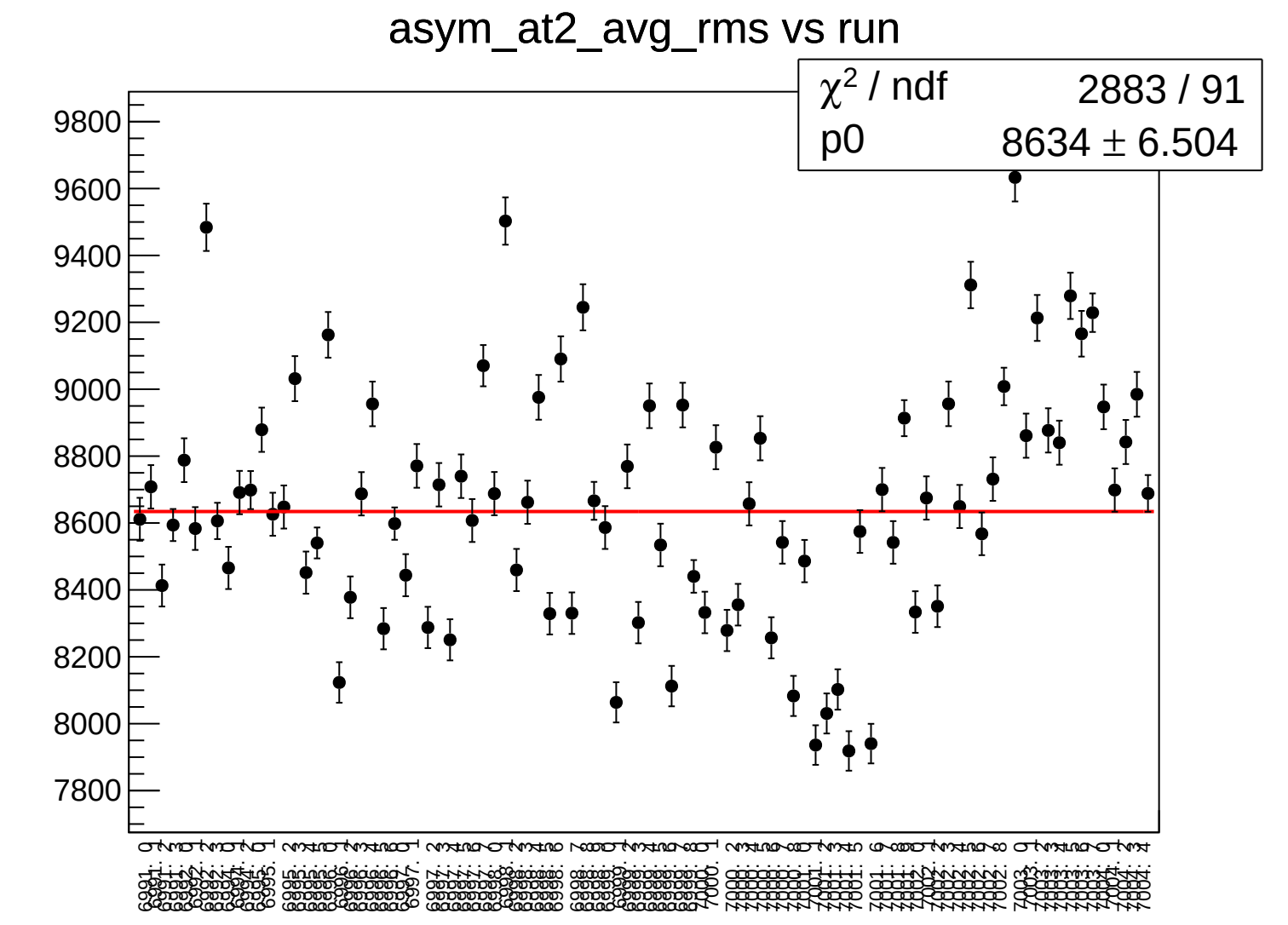

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.6 / 91
p0 −7281 ± 9580
pull
Entries 92
Mean −5065
Std Dev 0

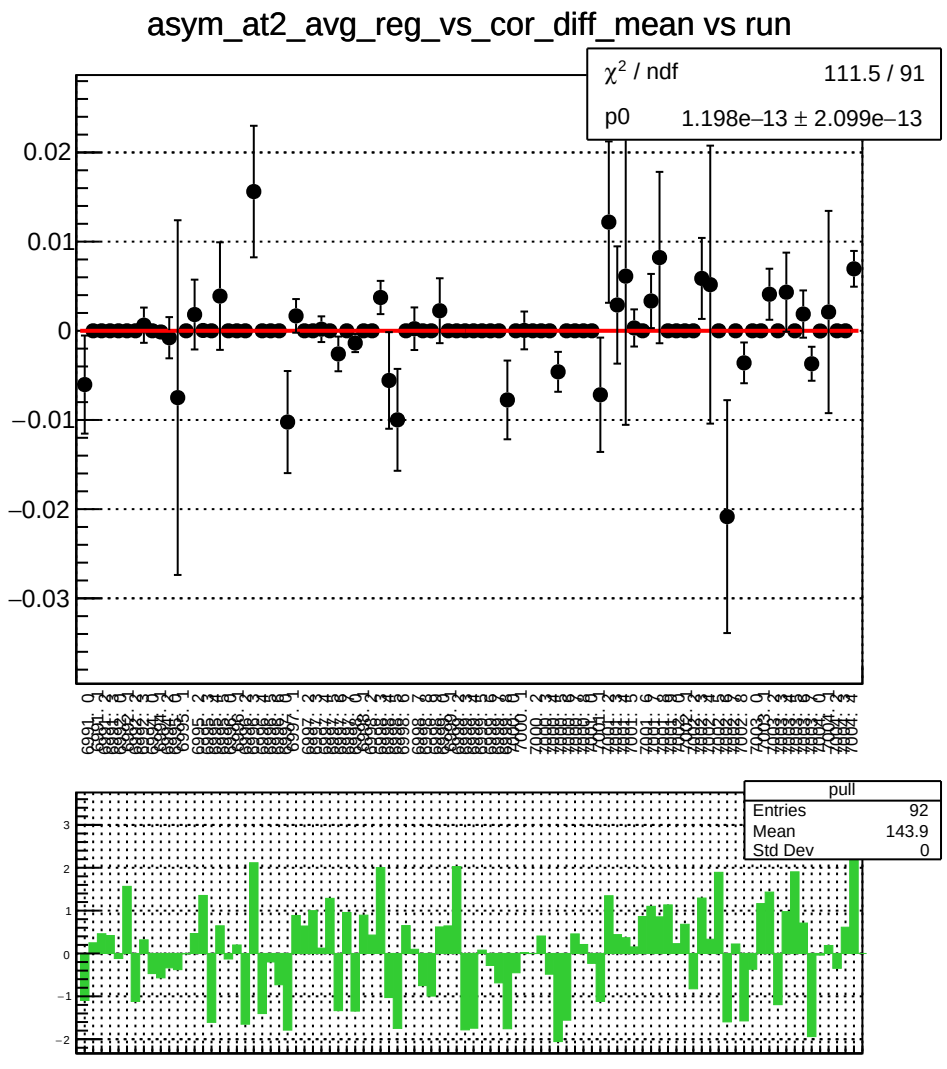

pull1D
Entries 92
Mean 0.001008
Std Dev 1.081

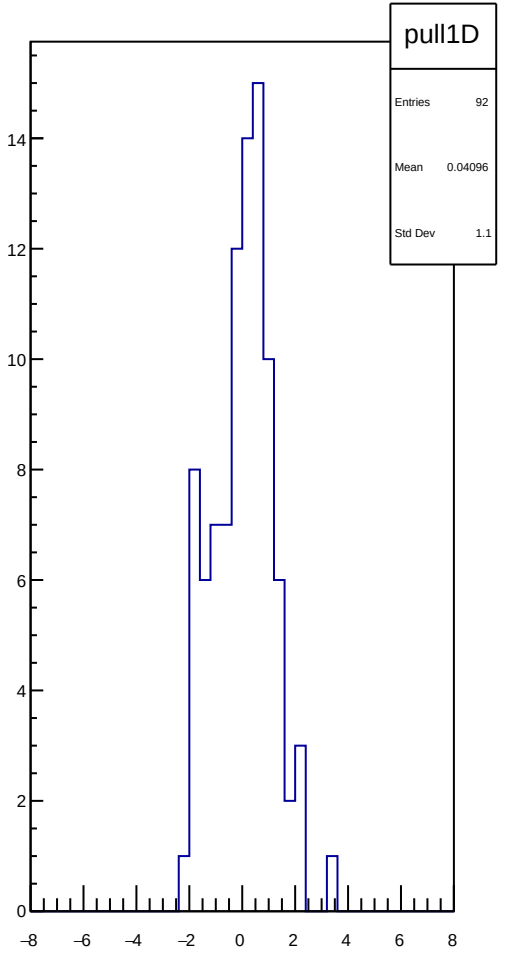

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2989 / 91
p0 8992 ± 6.774
10000
9500
9000
8500
8000

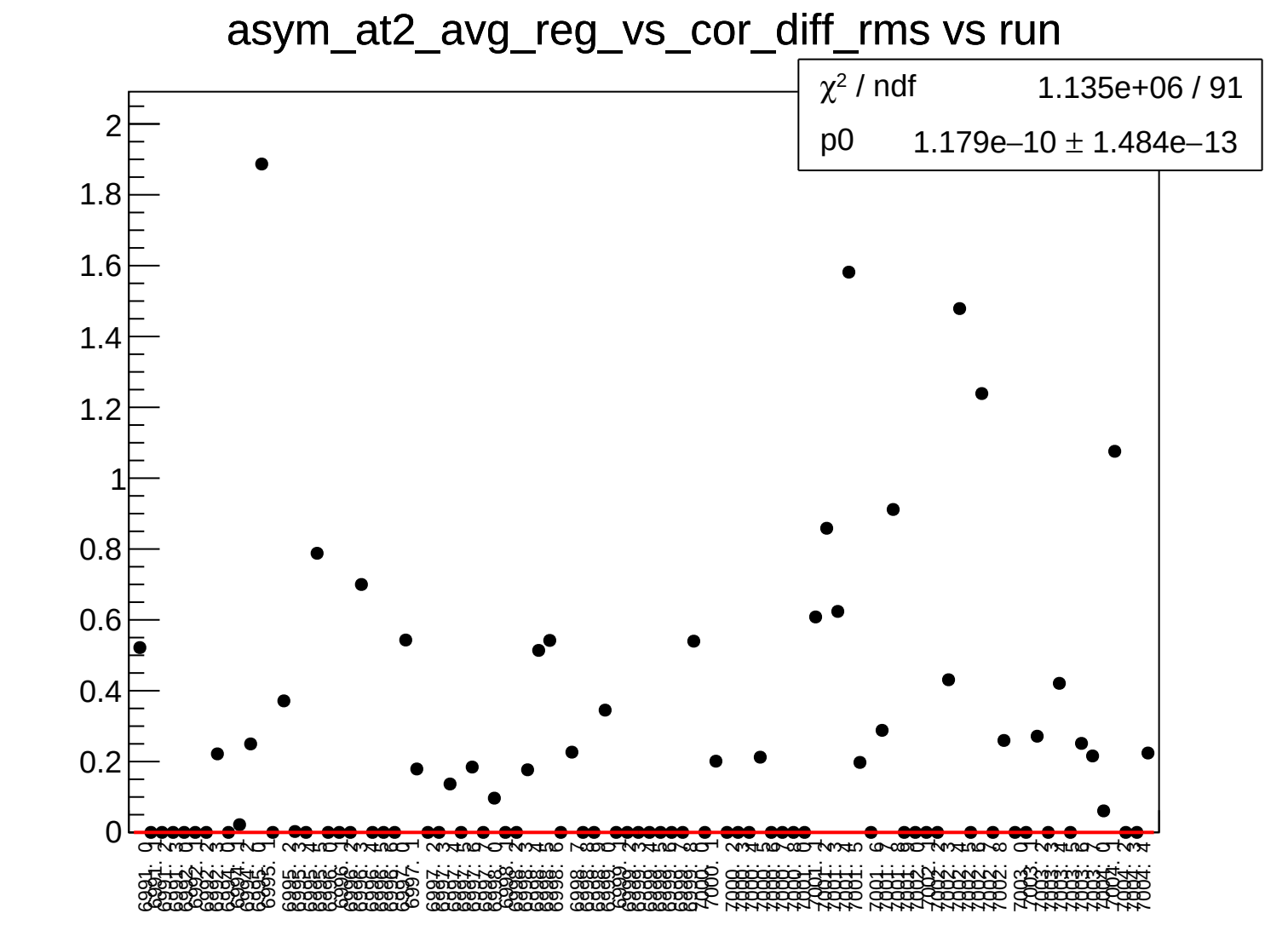

asym_at2_avg_mean vs run
×10^3
χ² / ndf 110 / 91
p0 2706 ± 9198
pull
Entries 92
Mean −2138
Std Dev 0

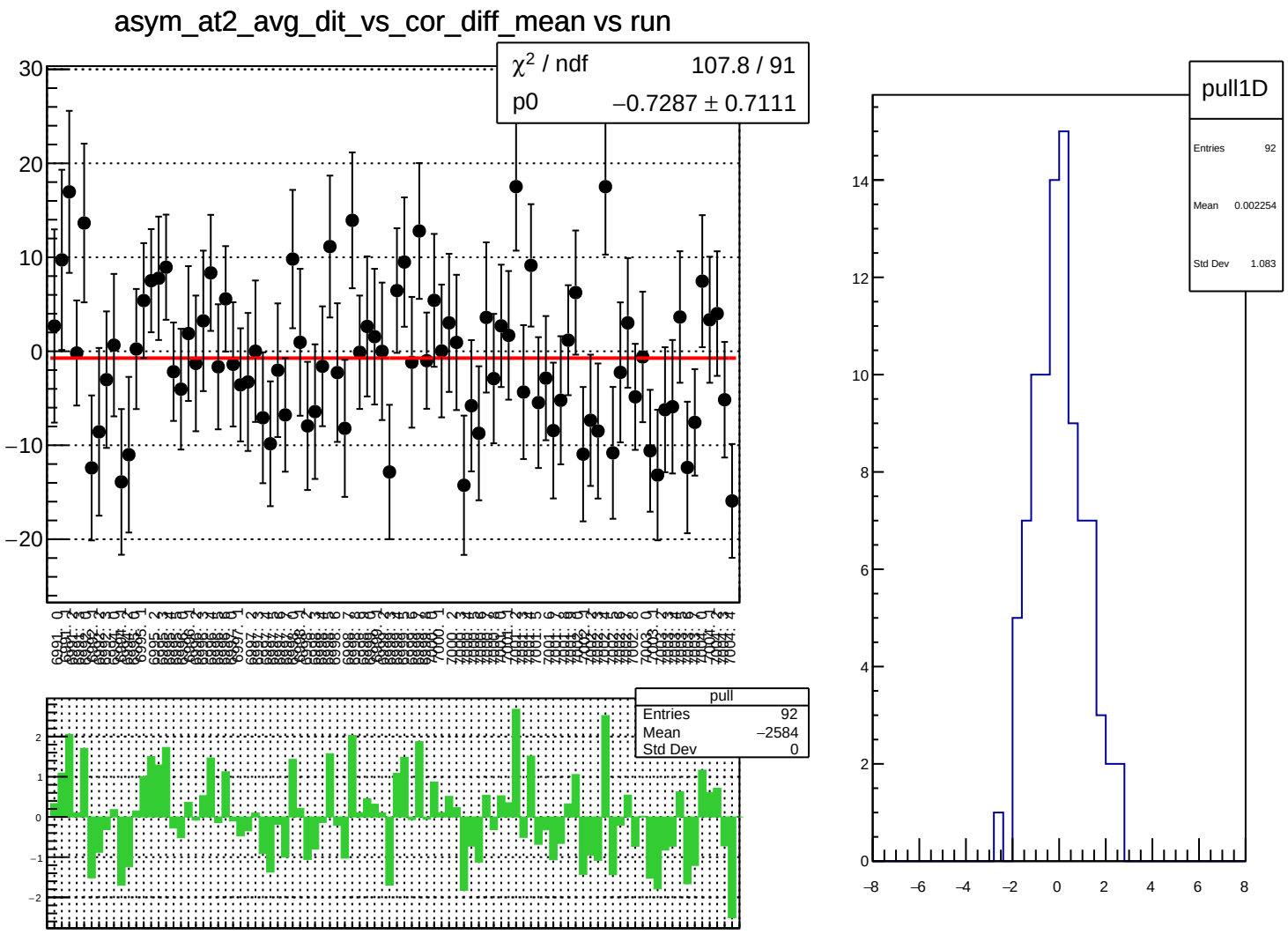

pull1D
Entries 92
Mean −0.002132
Std Dev 1.094

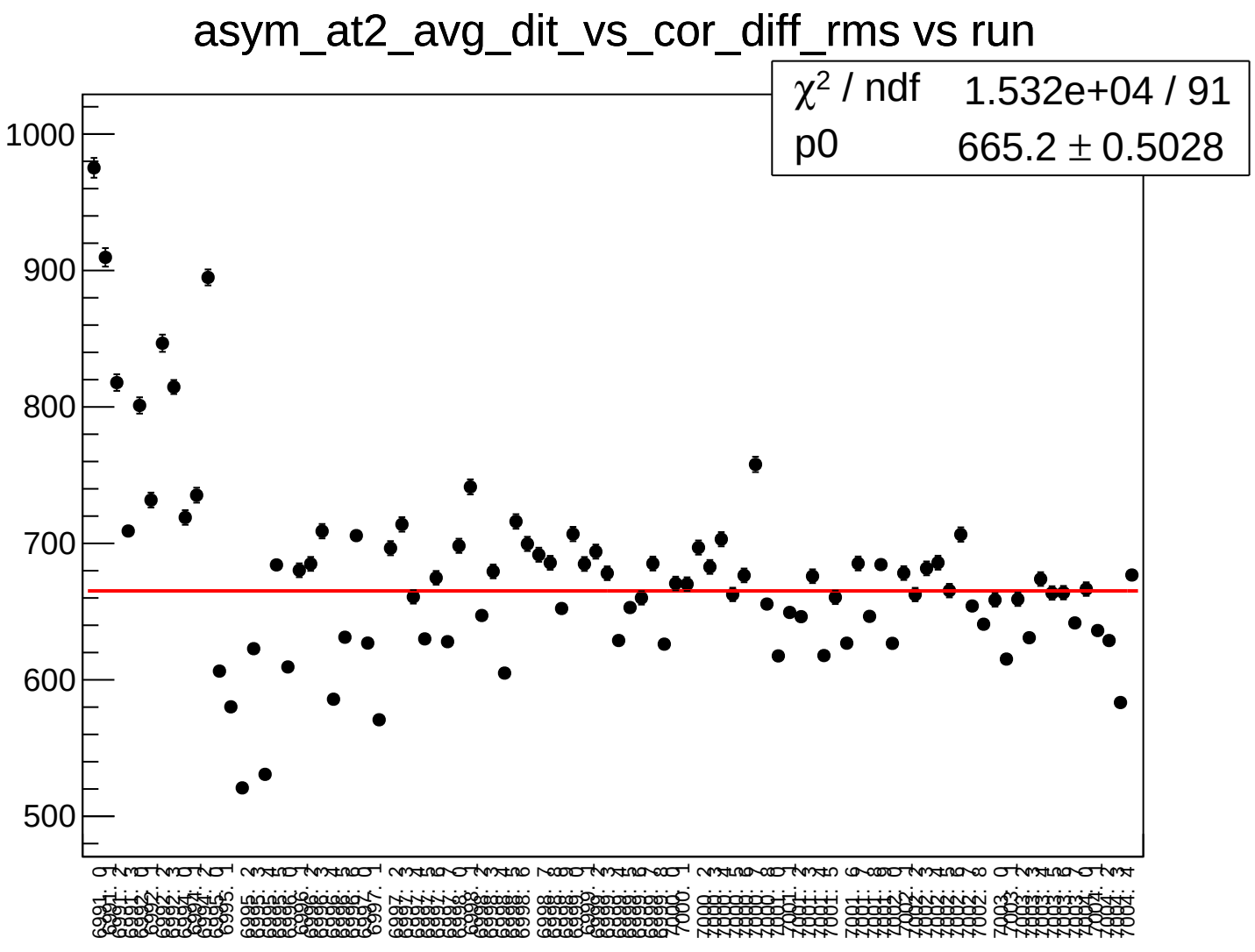

asym_at2_avg_rms vs run
χ² / ndf 2883 / 91
p0 8634 ± 6.504
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

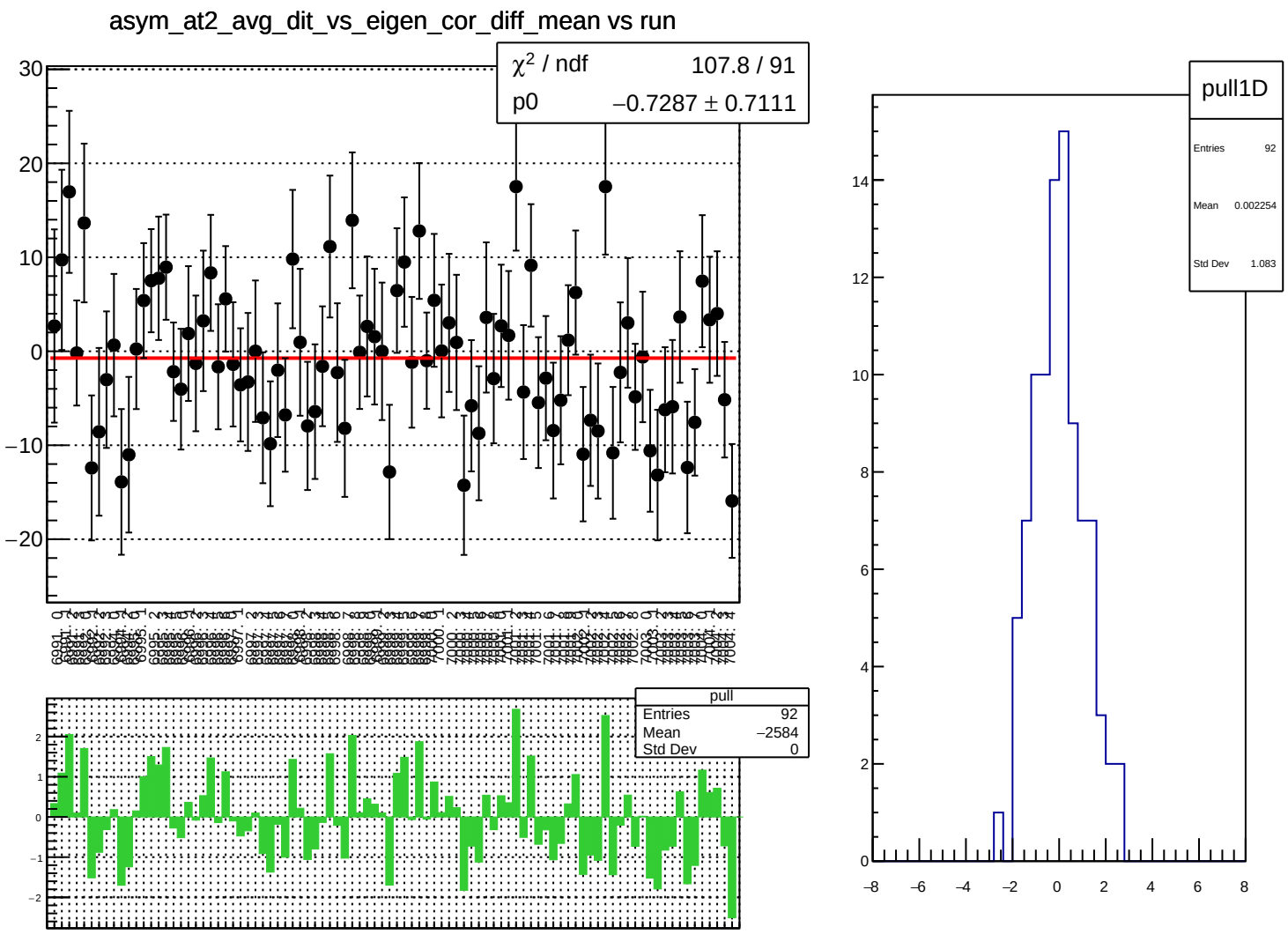

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 111.5 / 91
p0 1.198e−13 ± 2.099e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 143.9
Std Dev 0
3
2
1
0
−1
−2

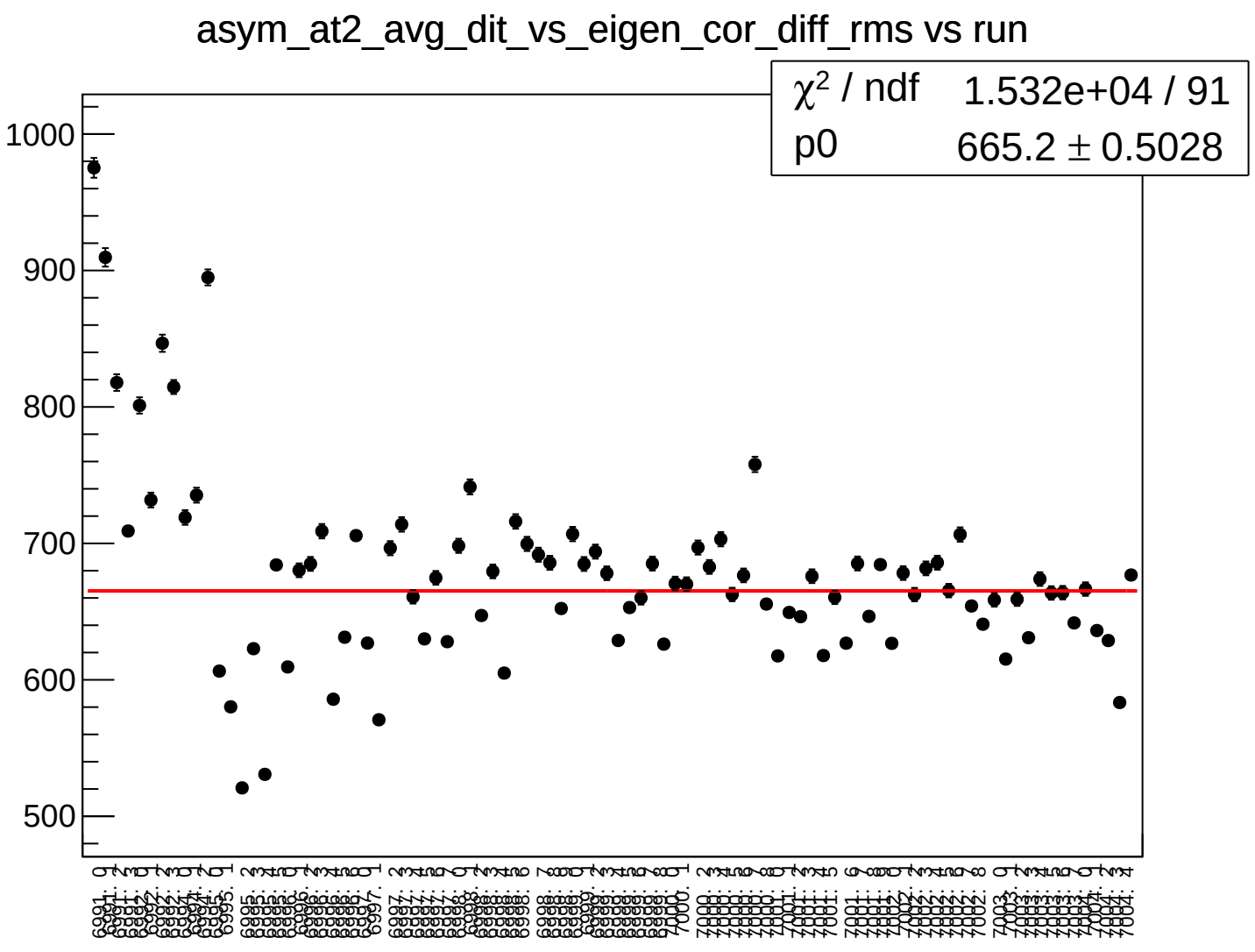

pull1D
Entries 92
Mean 0.04096
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

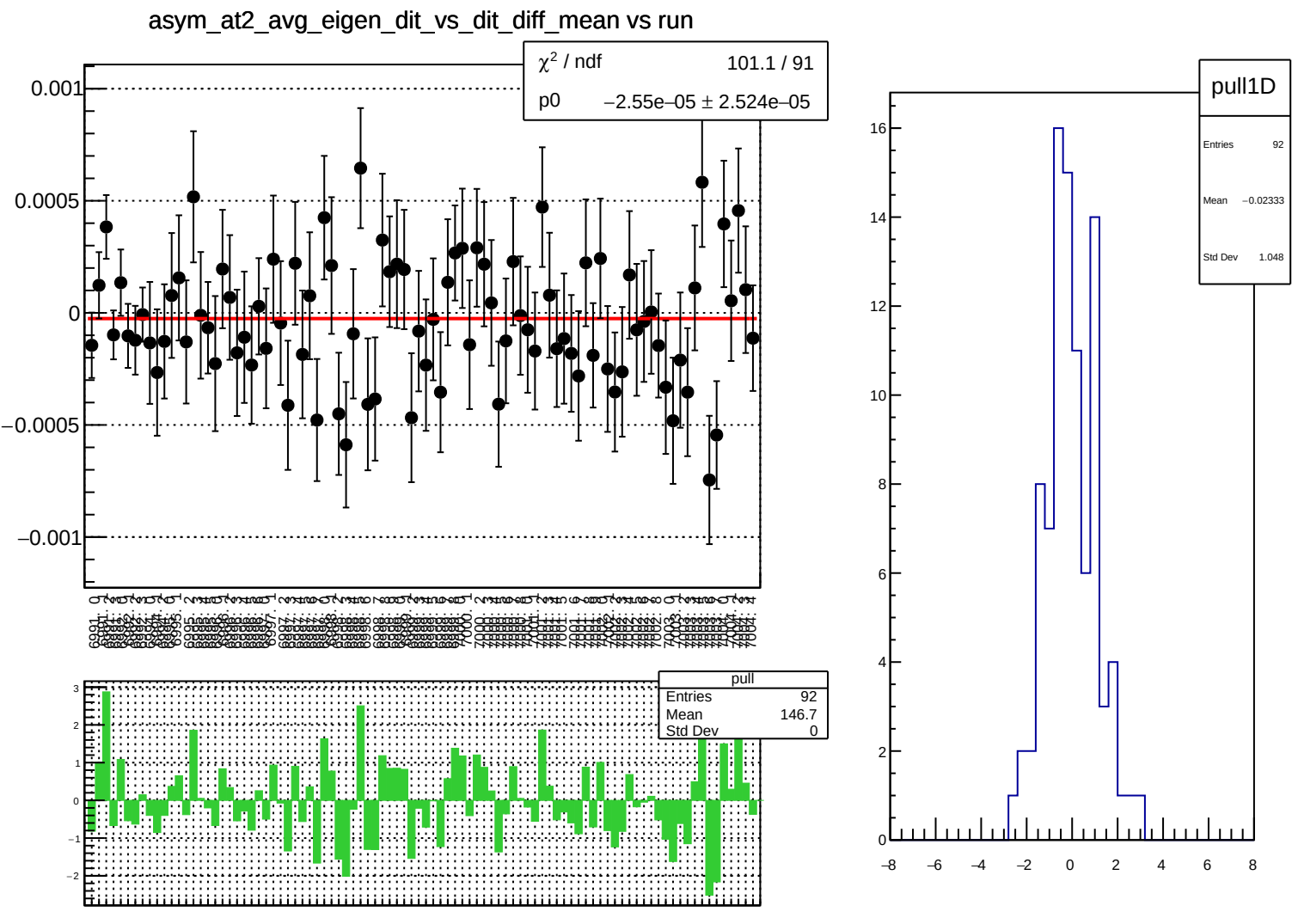

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.135e+06 / 91
p0 1.179e−10 ± 1.484e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

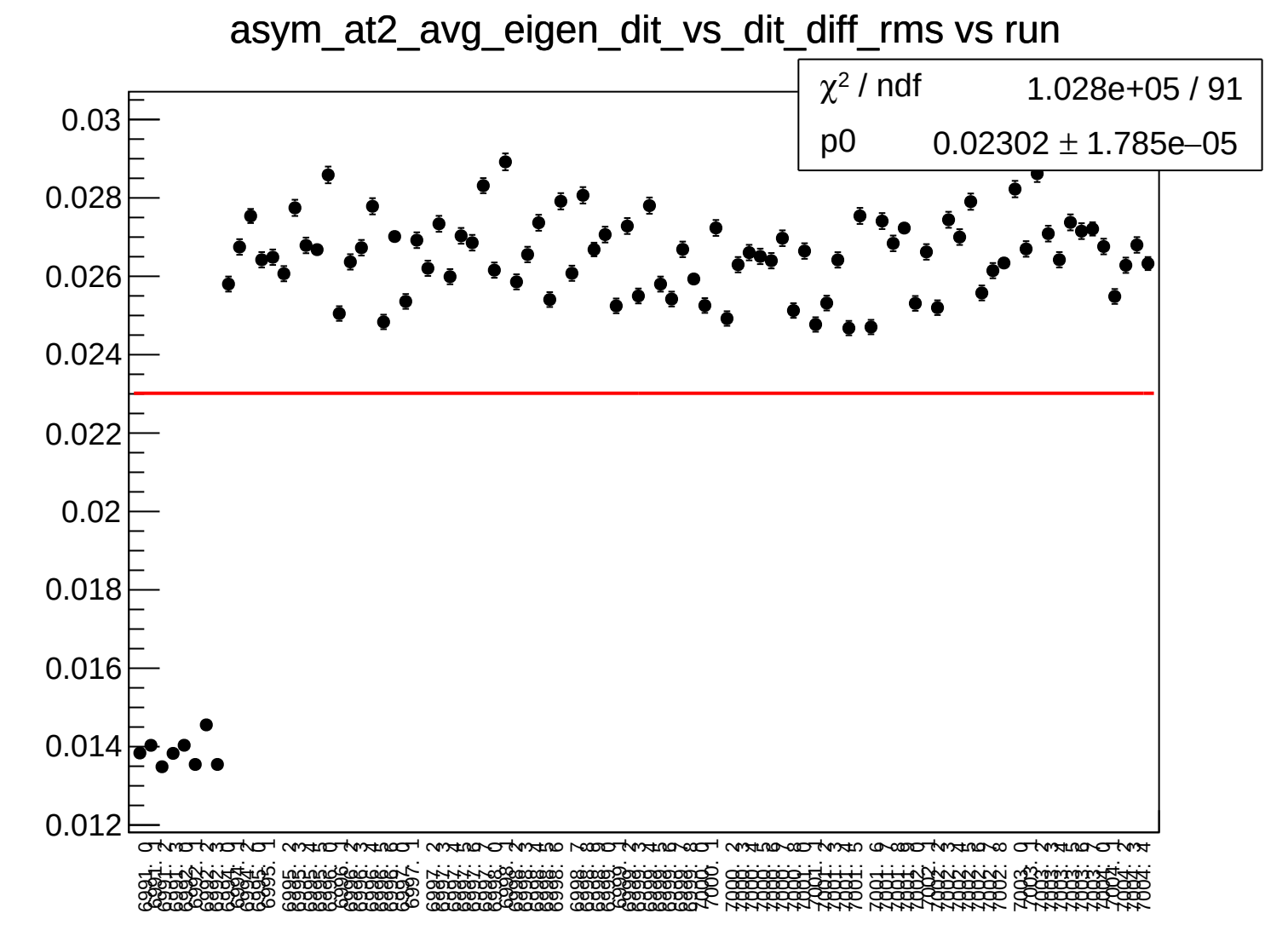

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 91
p0 −0.7287 ± 0.7111
pull
Entries 92
Mean −2584
Std Dev 0
pull1D
Entries 92
Mean 0.002254
Std Dev 1.083

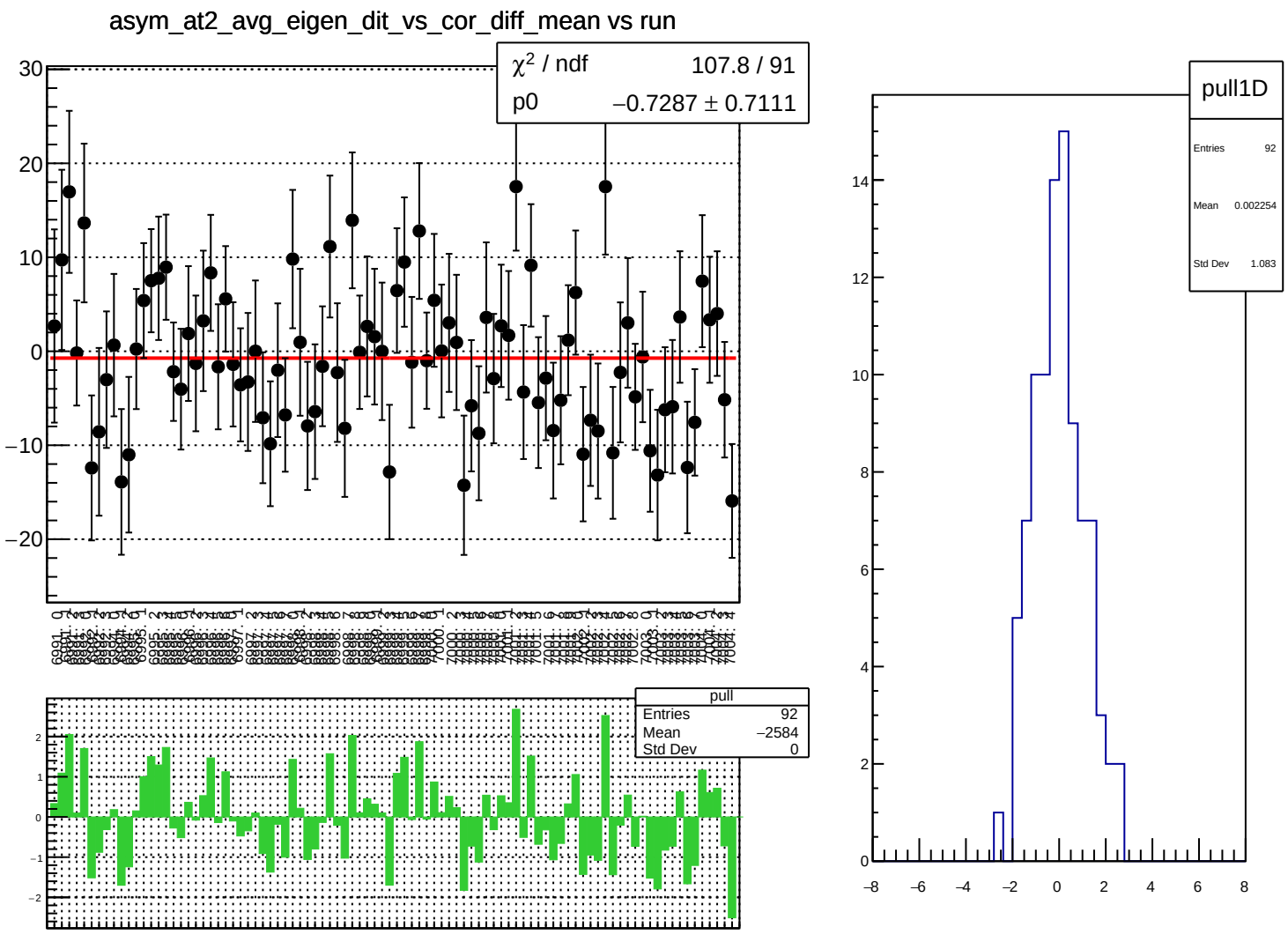

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 91
p0 665.2 ± 0.5028
1000
900
800
700
600
500

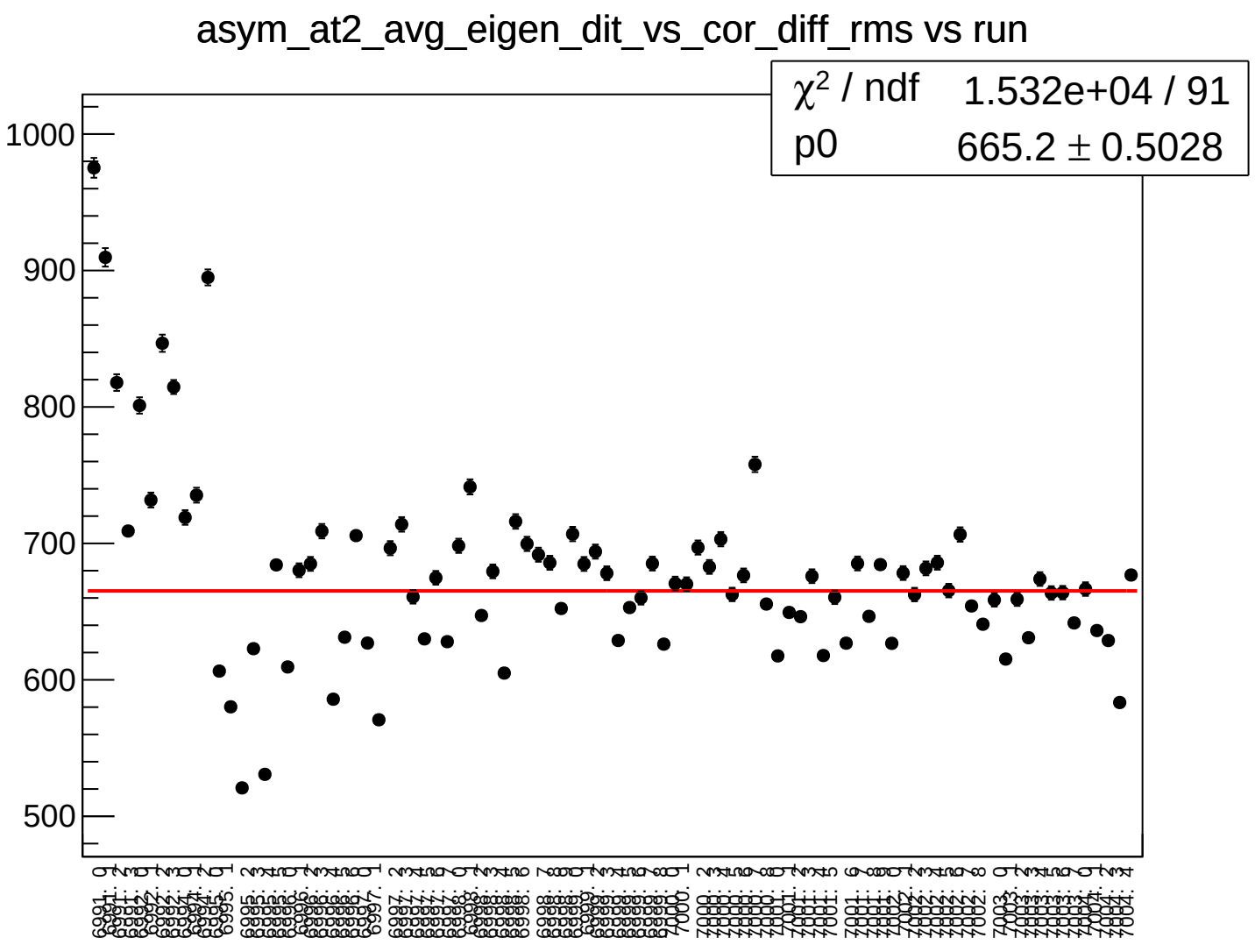

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 91
p0 −0.7287 ± 0.7111
pull
Entries 92
Mean −2584
Std Dev 0
pull1D
Entries 92
Mean 0.002254
Std Dev 1.083

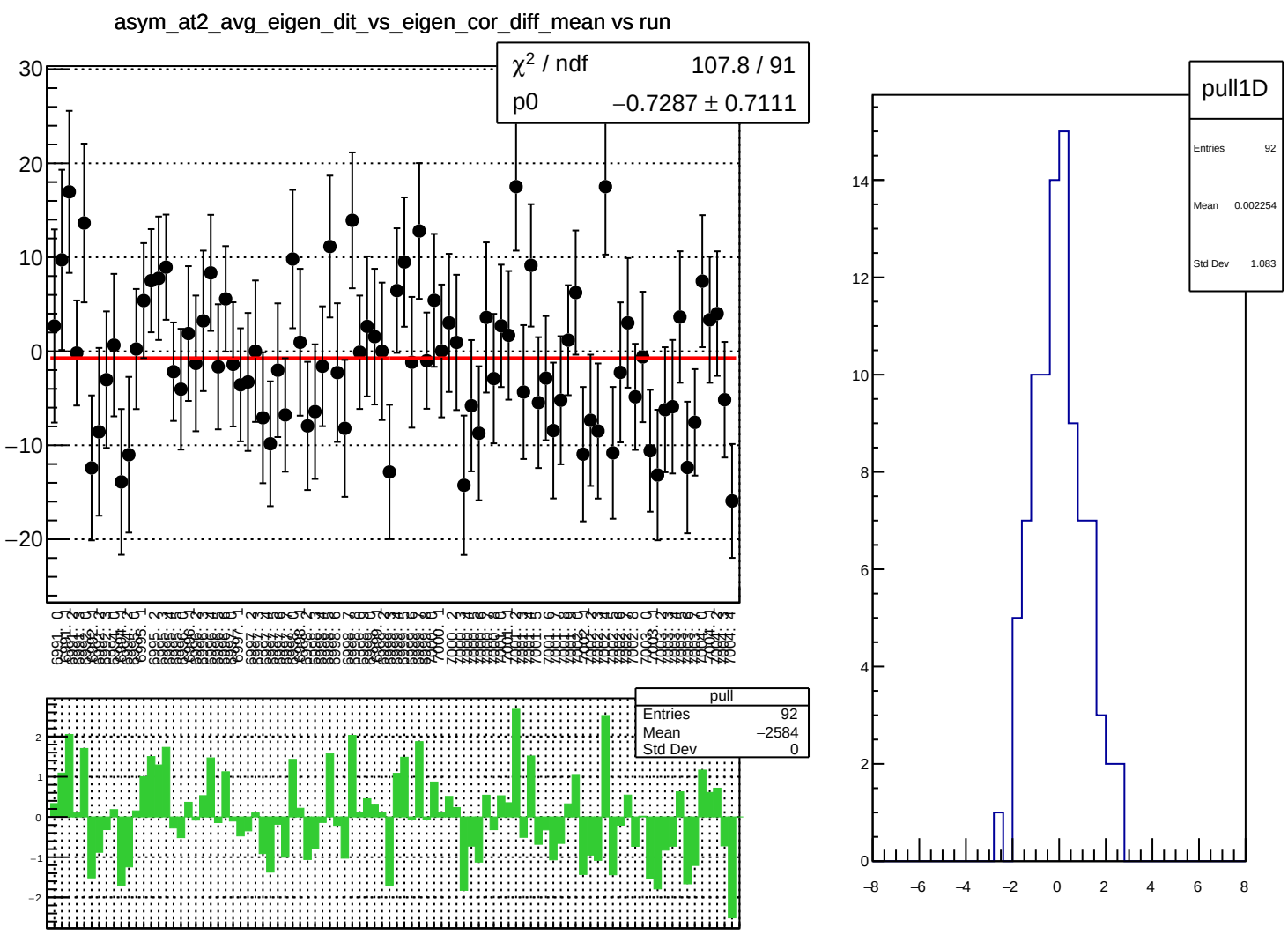

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 91
p0 665.2 ± 0.5028
1000
900
800
700
600
500

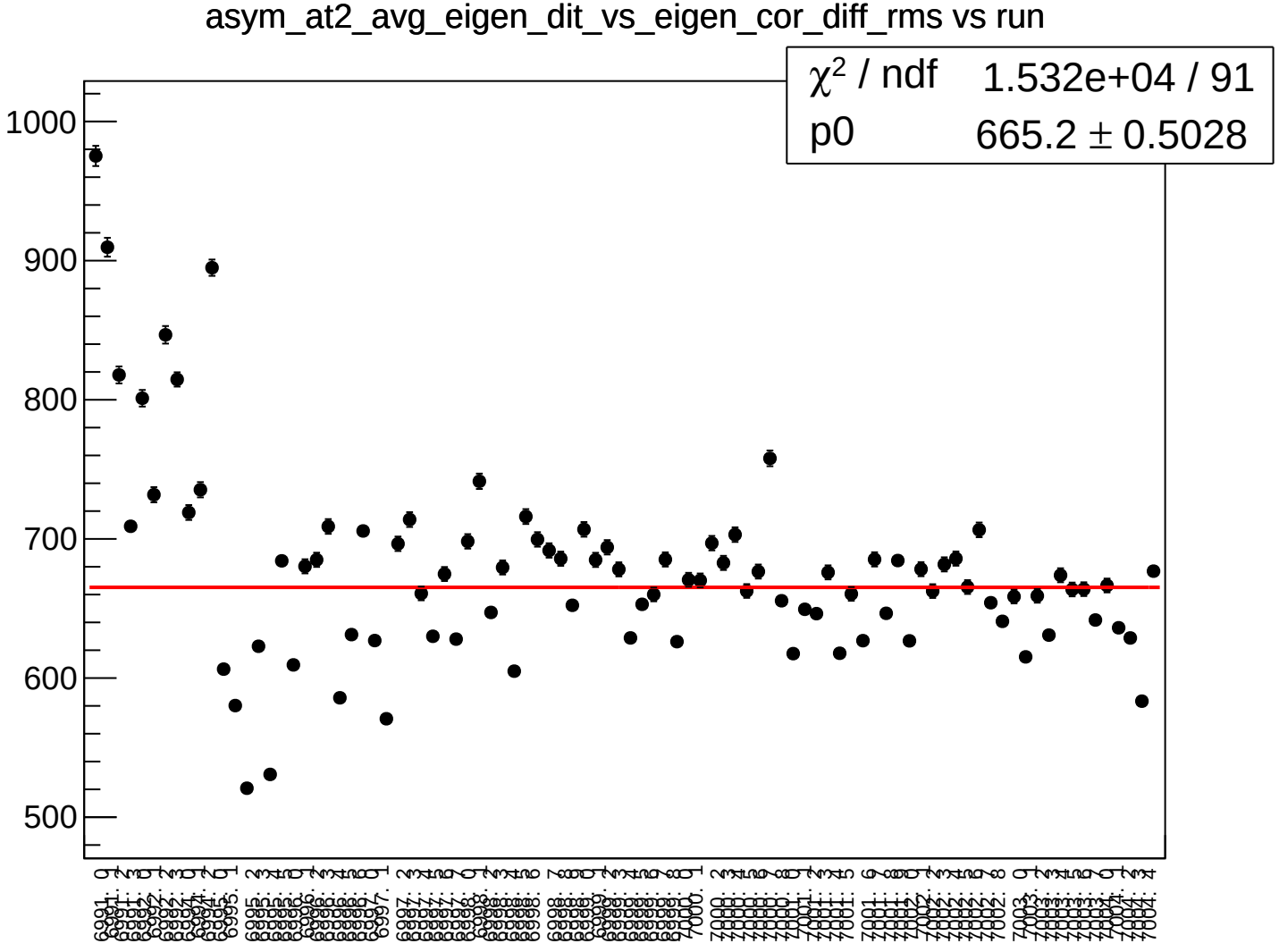

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 101.1 / 91
p0 −2.55e−05 ± 2.524e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 146.7
Std Dev 0
pull1D
Entries 92
Mean −0.02333
Std Dev 1.048

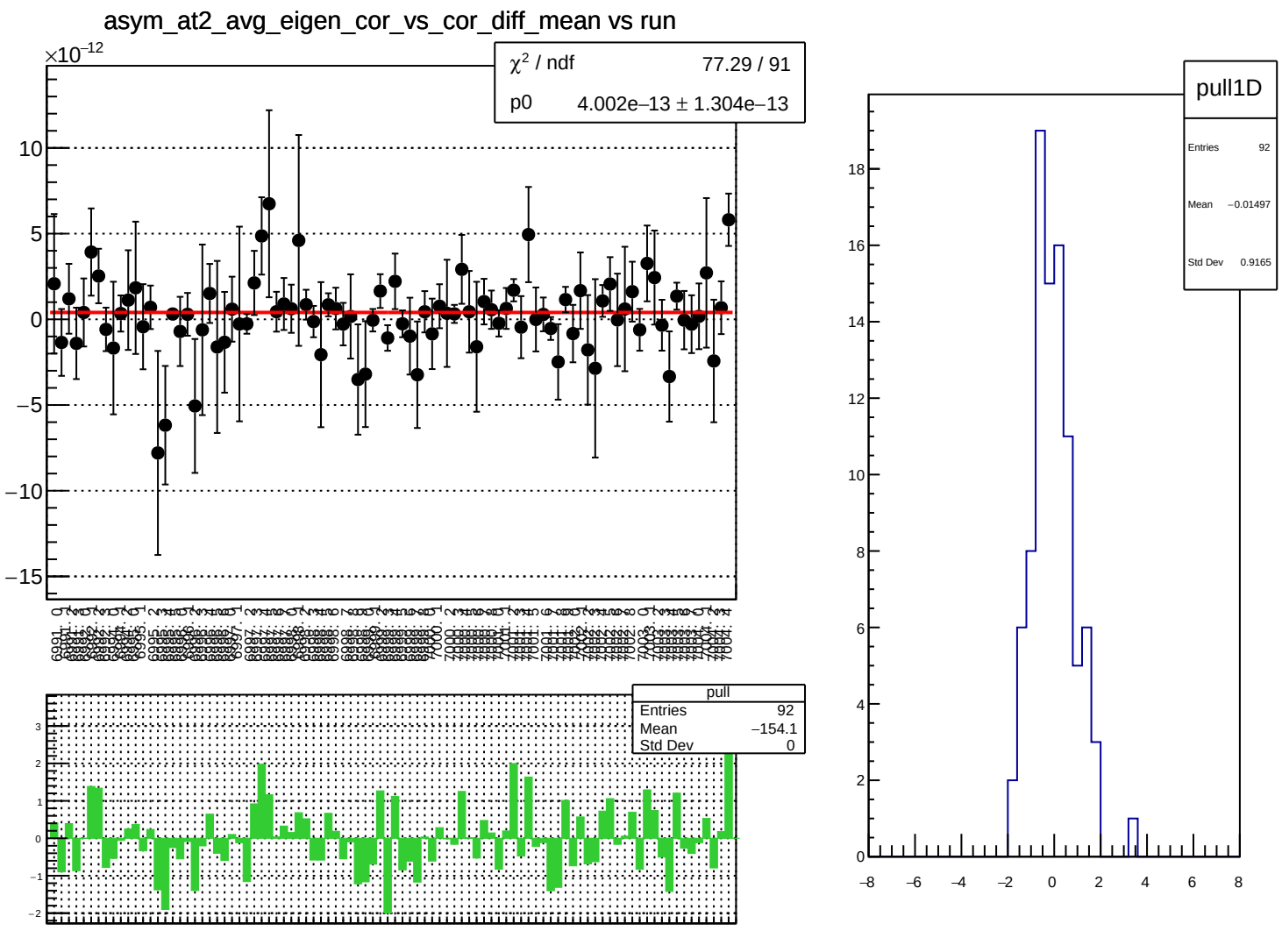

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.028e+05 / 91
p0 0.02302 ± 1.785e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

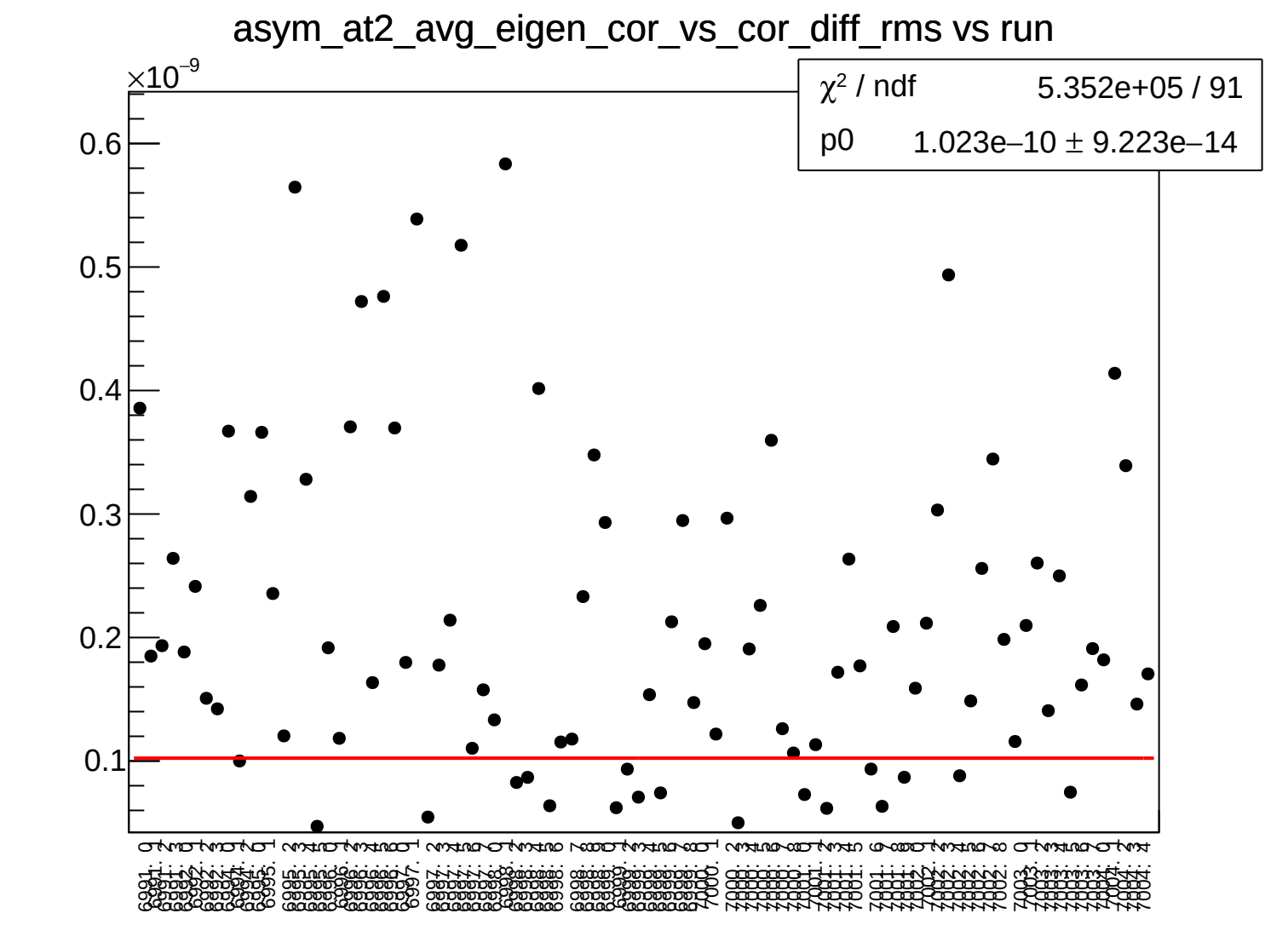

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 91
p0 −0.7287 ± 0.7111
pull
Entries 92
Mean −2584
Std Dev 0
pull1D
Entries 92
Mean 0.002254
Std Dev 1.083

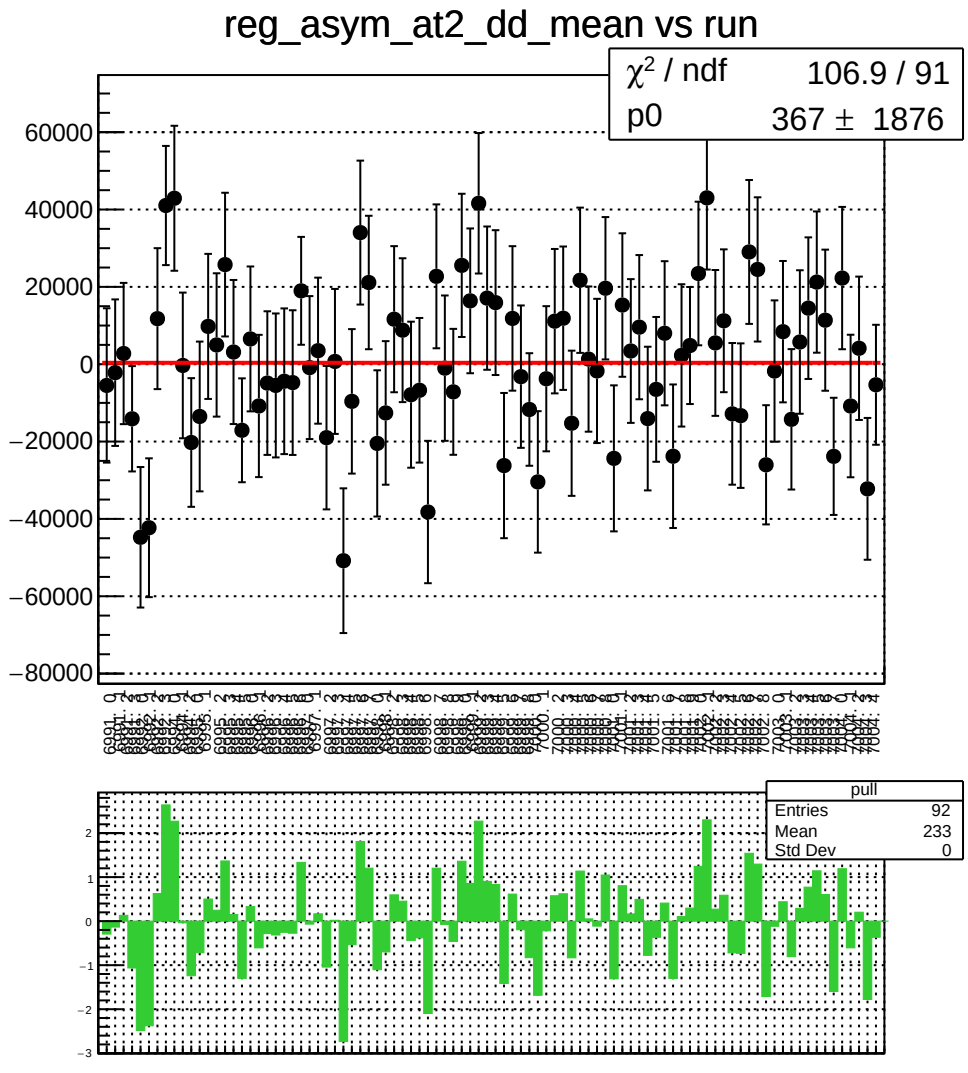

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 91
p0 665.2 ± 0.5028
1000
900
800
700
600
500

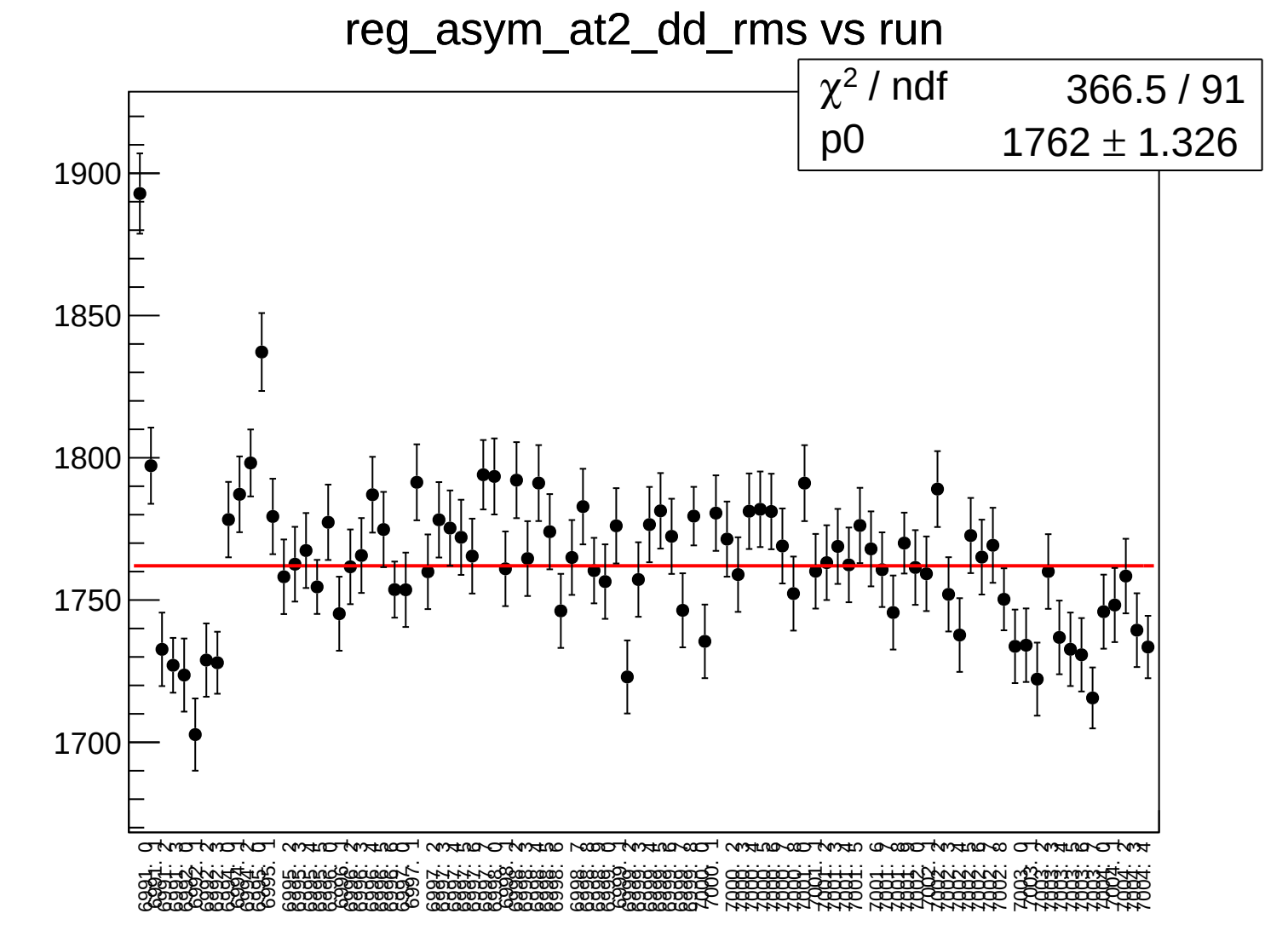

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.8 / 91
p0 −0.7287 ± 0.7111
pull
Entries 92
Mean −2584
Std Dev 0
pull1D
Entries 92
Mean 0.002254
Std Dev 1.083

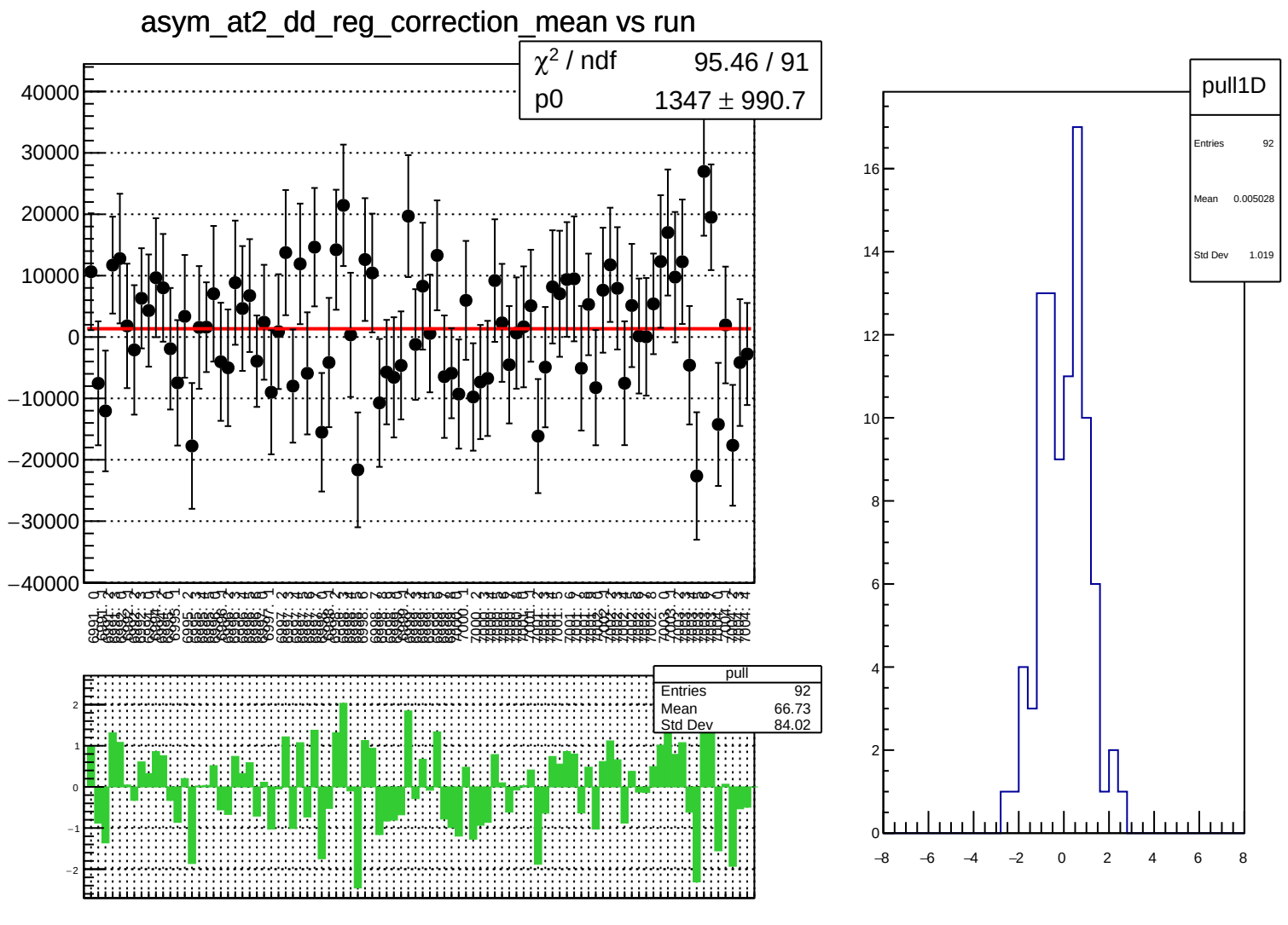

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.532e+04 / 91
p0 665.2 ± 0.5028
1000
900
800
700
600
500

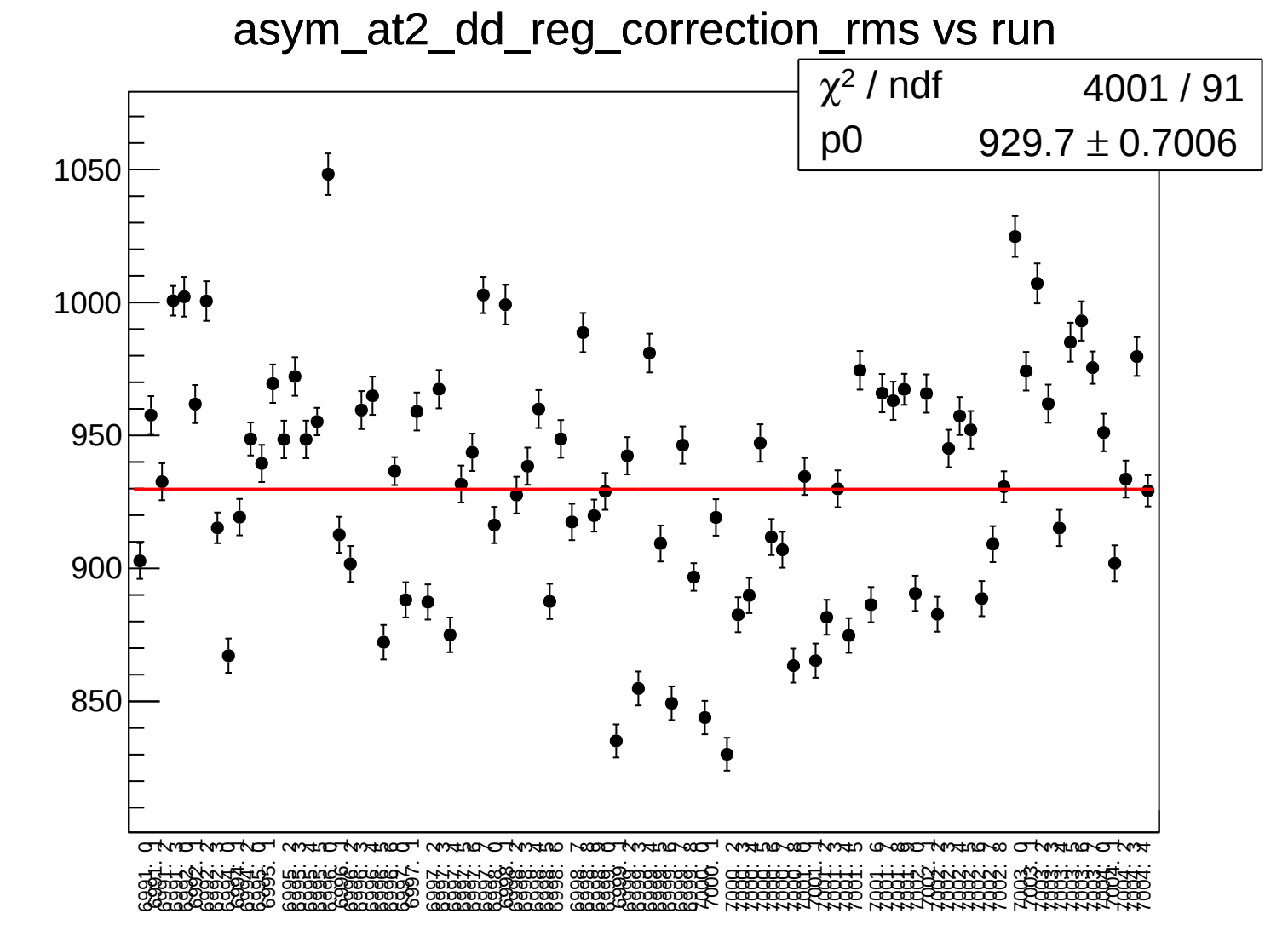

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.29 / 91
p0 4.002e−13 ± 1.304e−13
10
5
0
−5
−10
−15
pull
Entries 92
Mean −154.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01497
Std Dev 0.9165
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

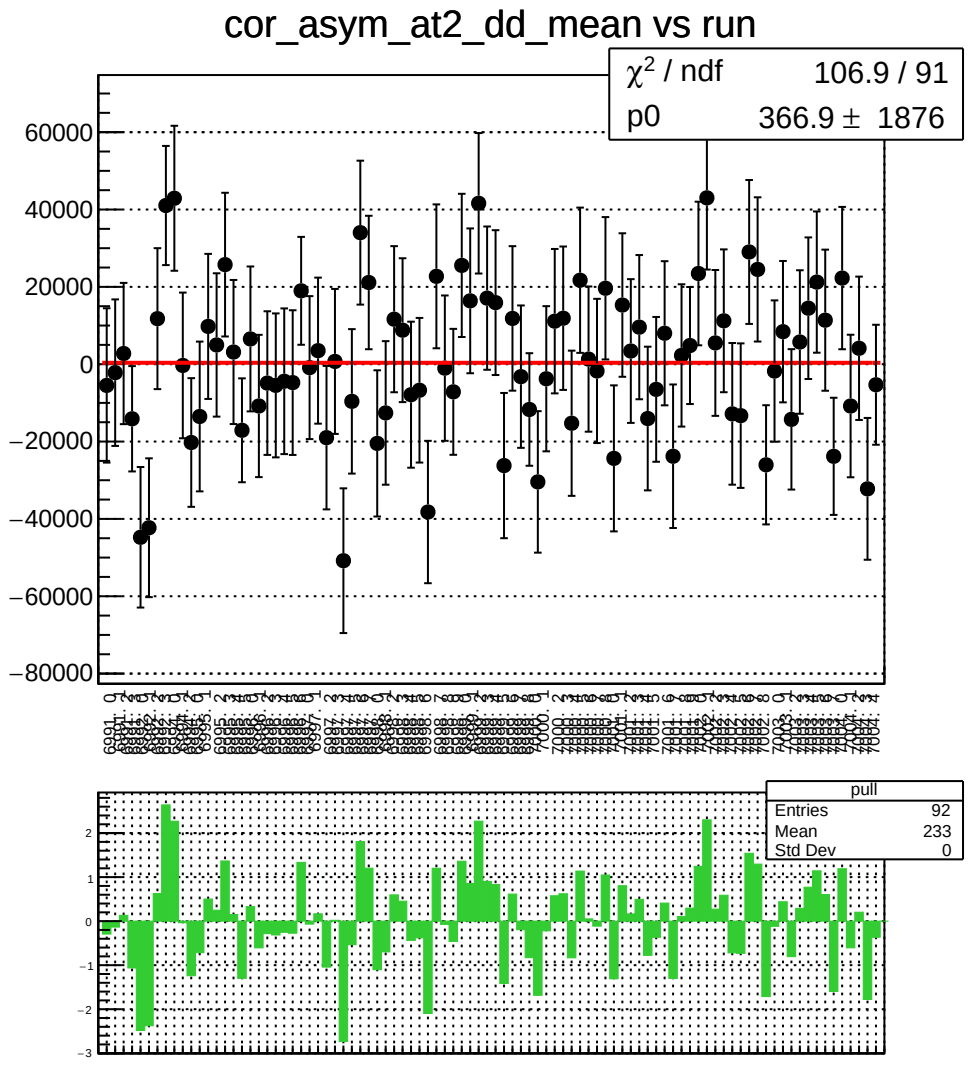

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.352e+05 / 91
p0 1.023e−10 ± 9.223e−14
0.6
0.5
0.4
0.3
0.2
0.1

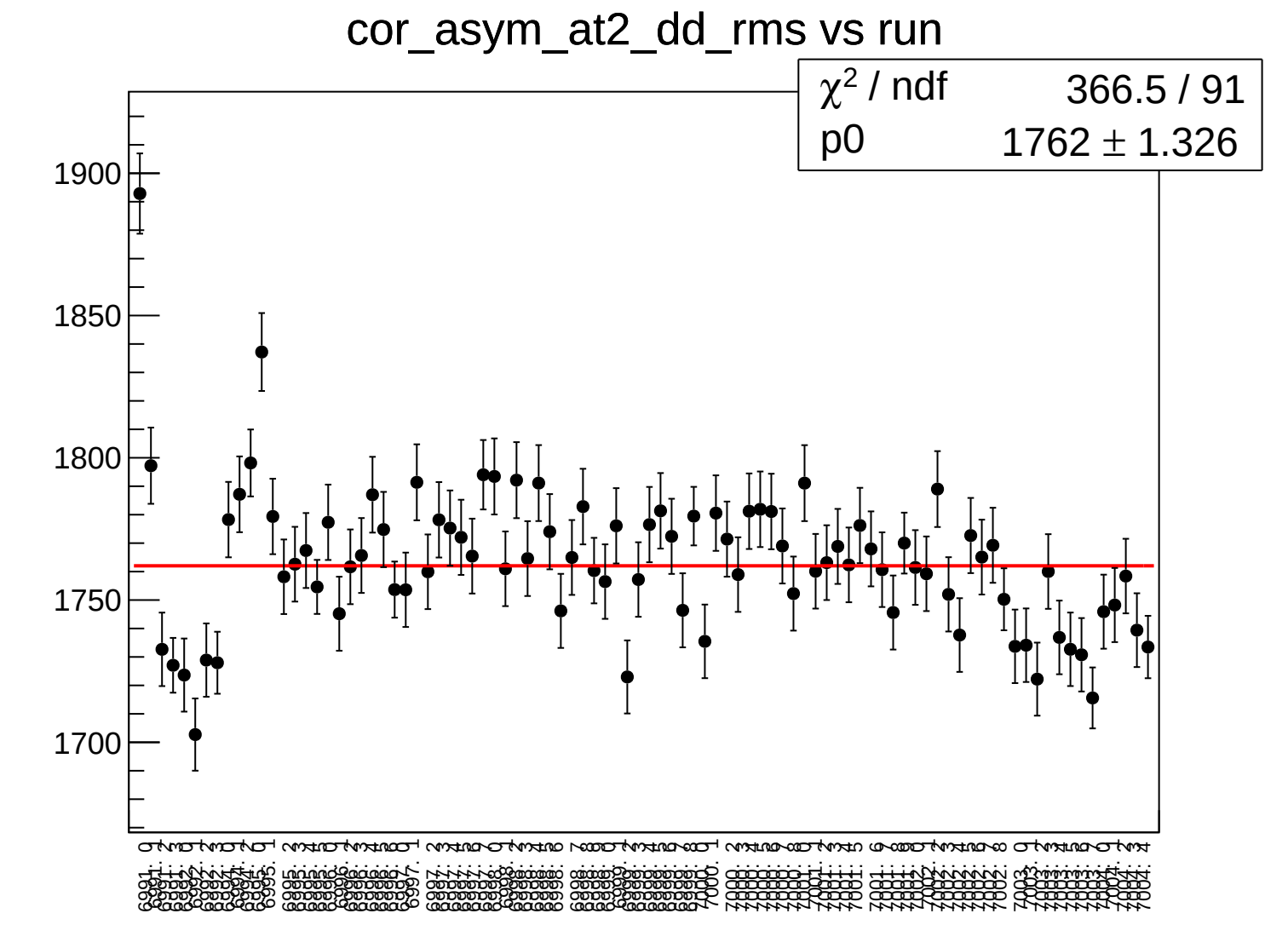

reg_asym_at2_dd_mean vs run
χ² / ndf 106.9 / 91
p0 367 ± 1876
pull
Entries 92
Mean 233
Std Dev 0
pull1D
Entries 92
Mean 0.01078
Std Dev 1.078

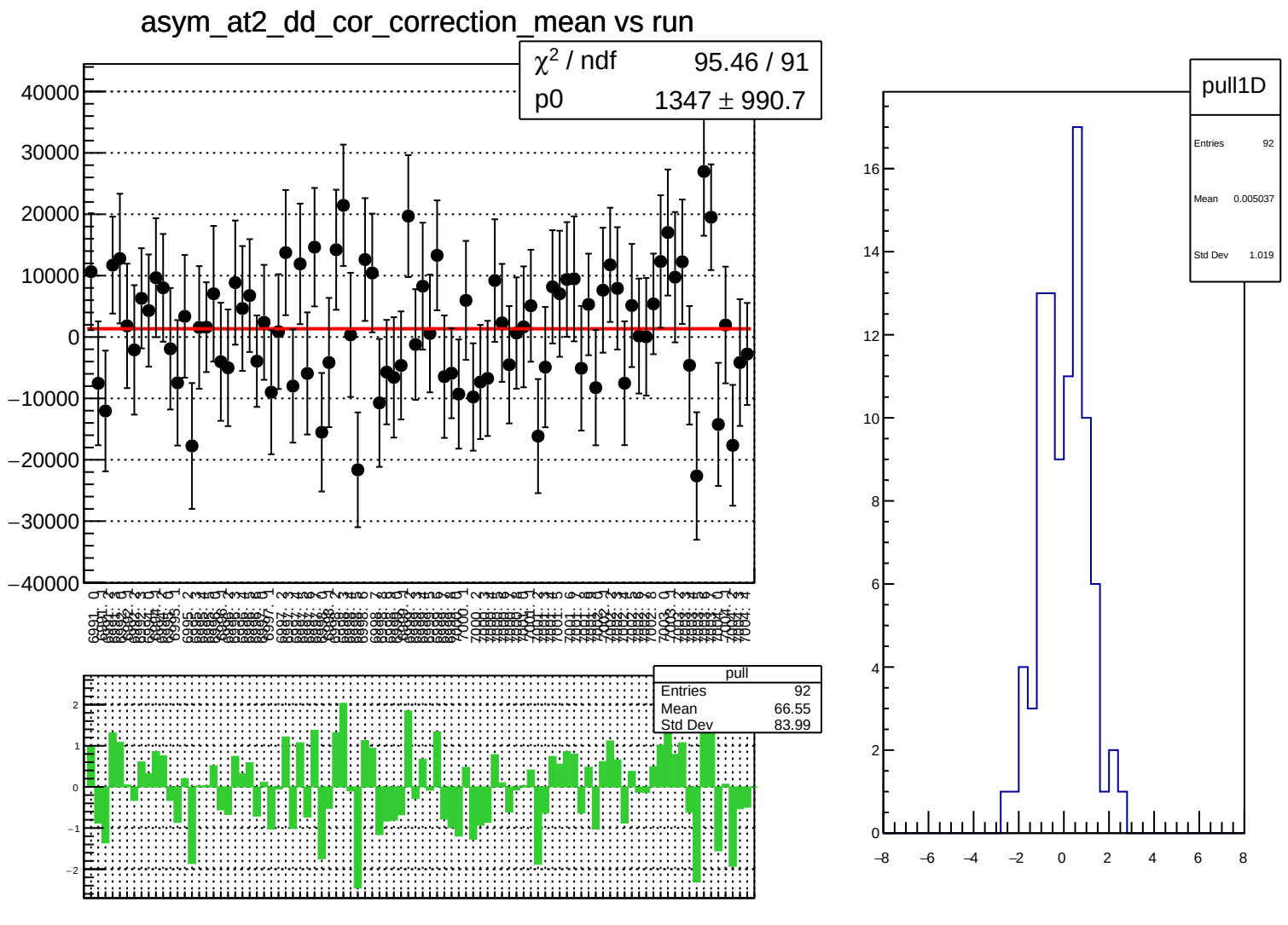

reg_asym_at2_dd_rms vs run
χ^2 / ndf 366.5 / 91
p0 1762 ± 1.326
1900
1850
1800
1750
1700

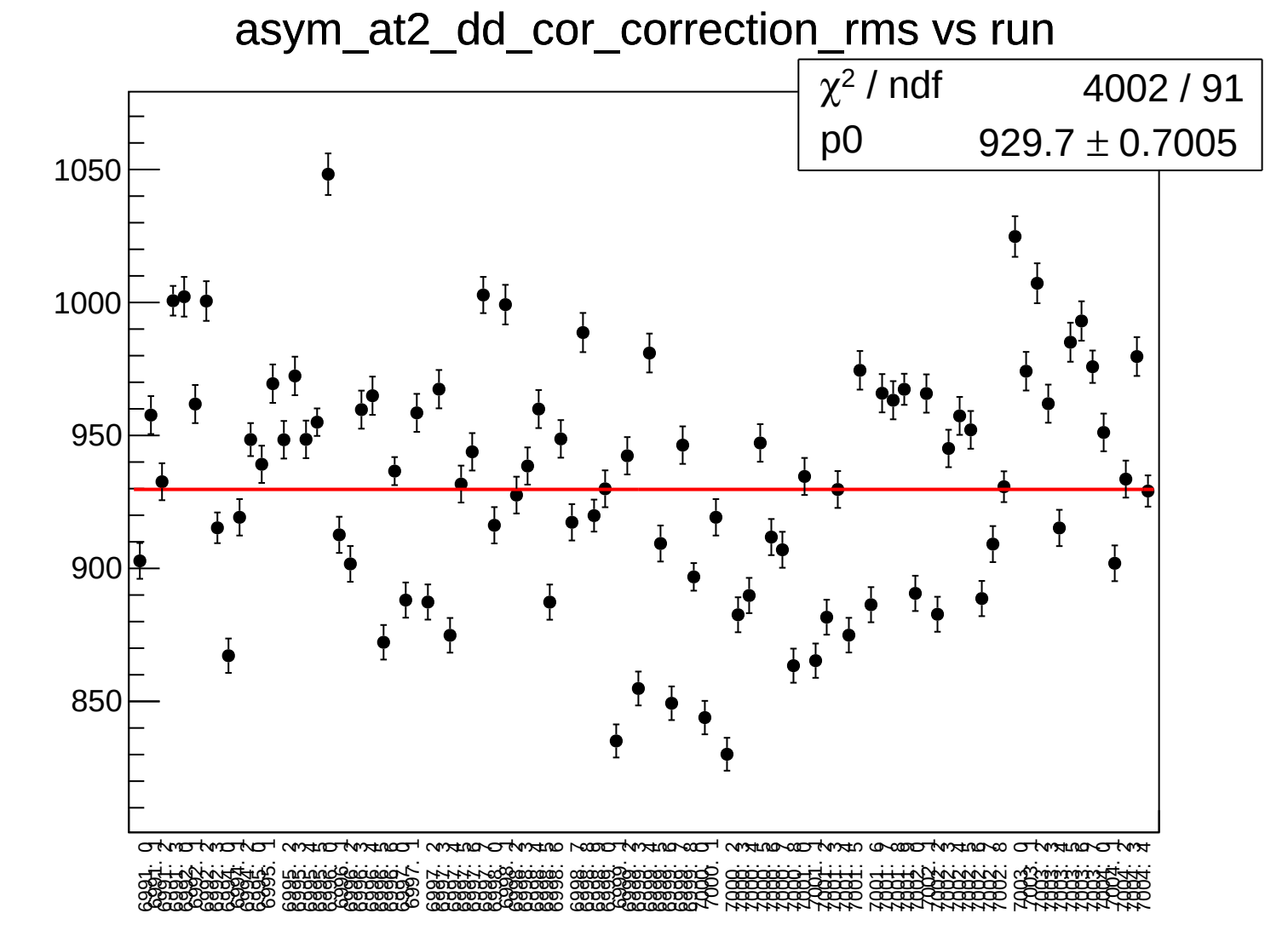

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 95.46 / 91
p0 1347 ± 990.7
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 66.73
Std Dev 84.02
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005028
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

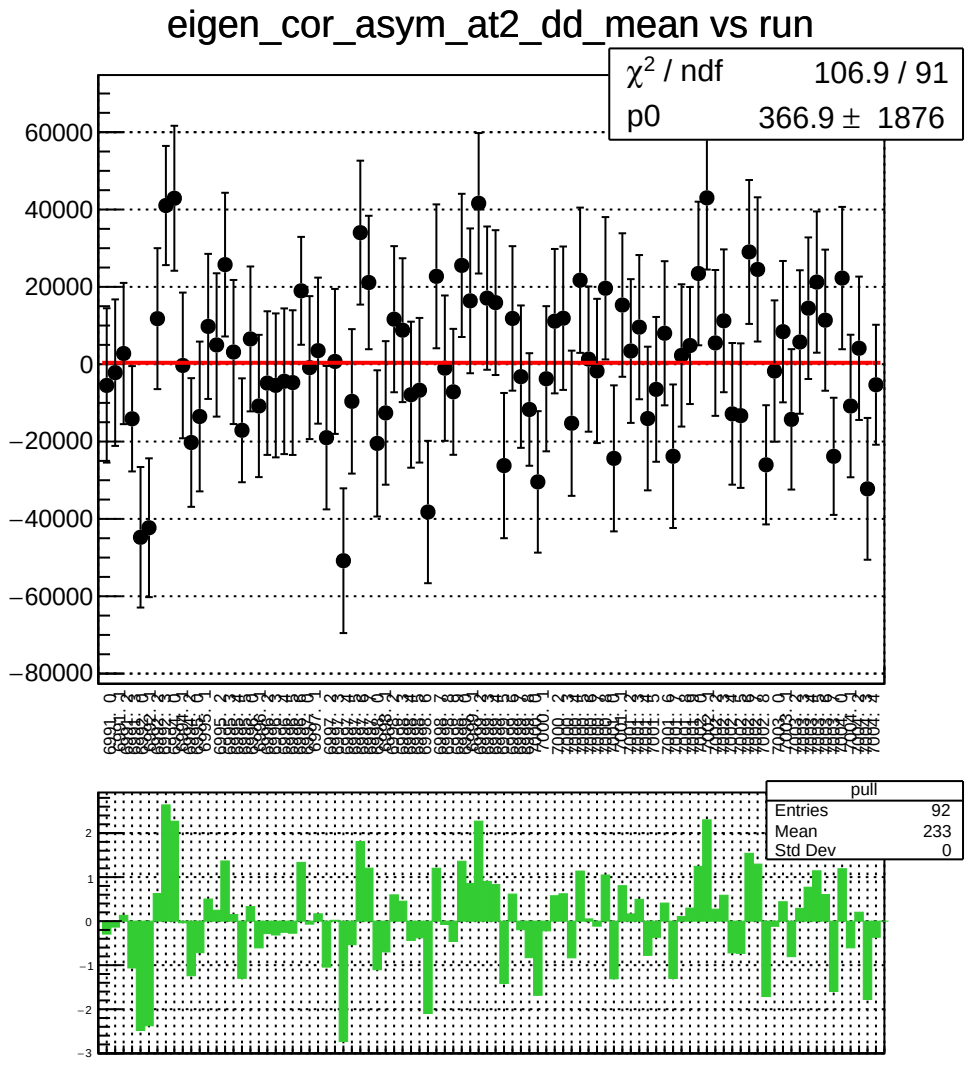

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 4001 / 91
p0 929.7 ± 0.7006
1050
1000
950
900
850

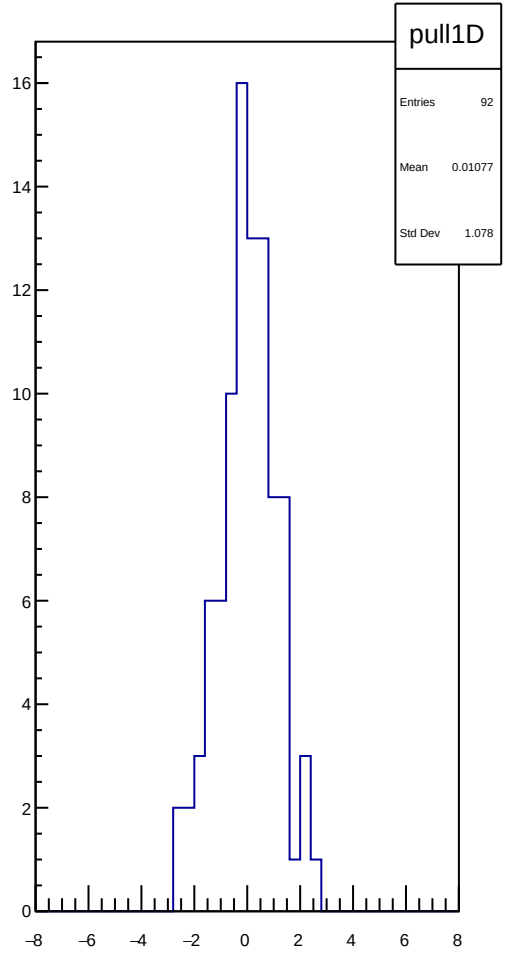

cor_asym_at2_dd_mean vs run
χ² / ndf 106.9 / 91
p0 366.9 ± 1876
pull
Entries 92
Mean 233
Std Dev 0
pull1D
Entries 92
Mean 0.01077
Std Dev 1.078

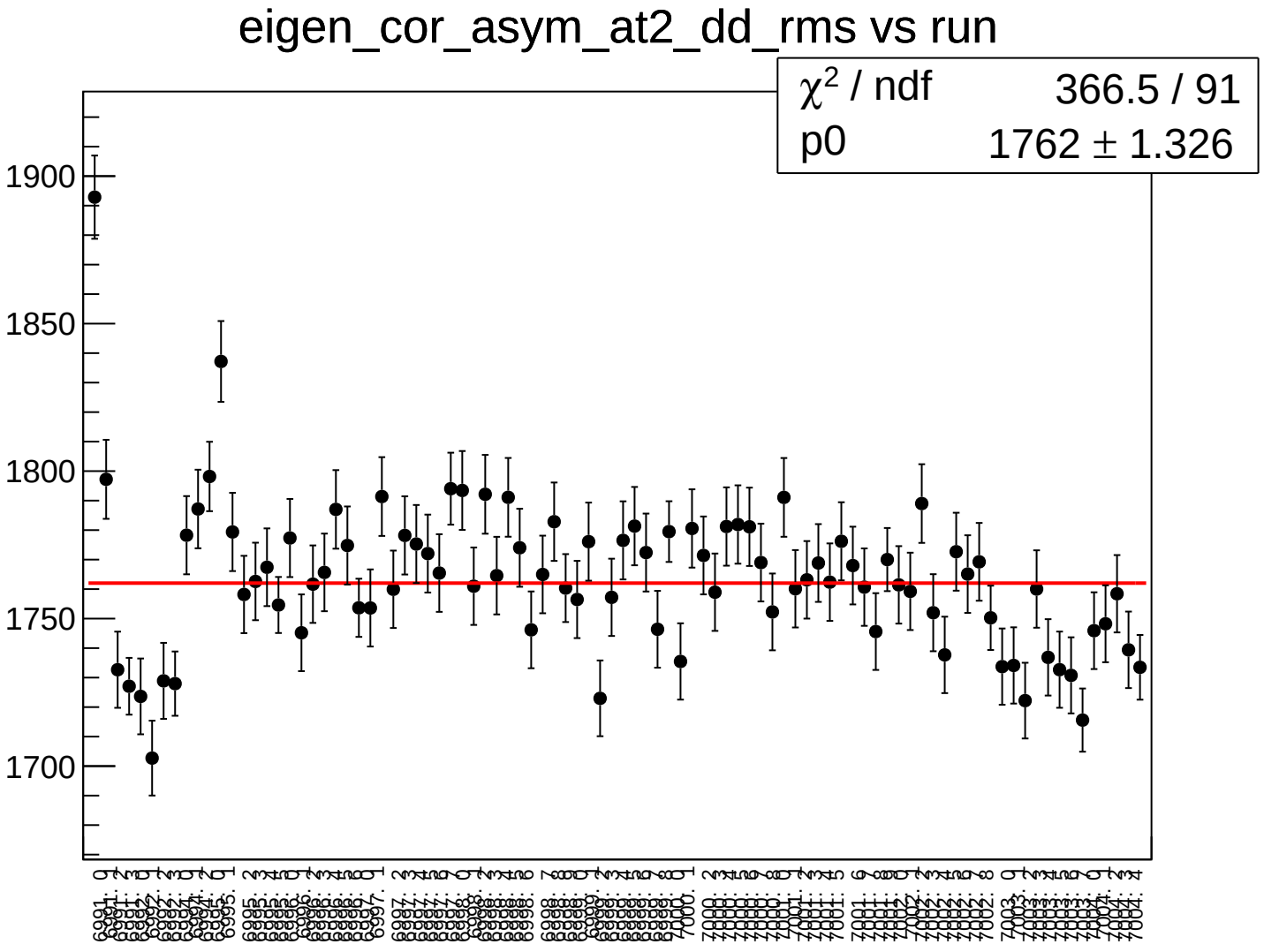

cor_asym_at2_dd_rms vs run
χ^2 / ndf 366.5 / 91
p0 1762 ± 1.326
1900
1850
1800
1750
1700

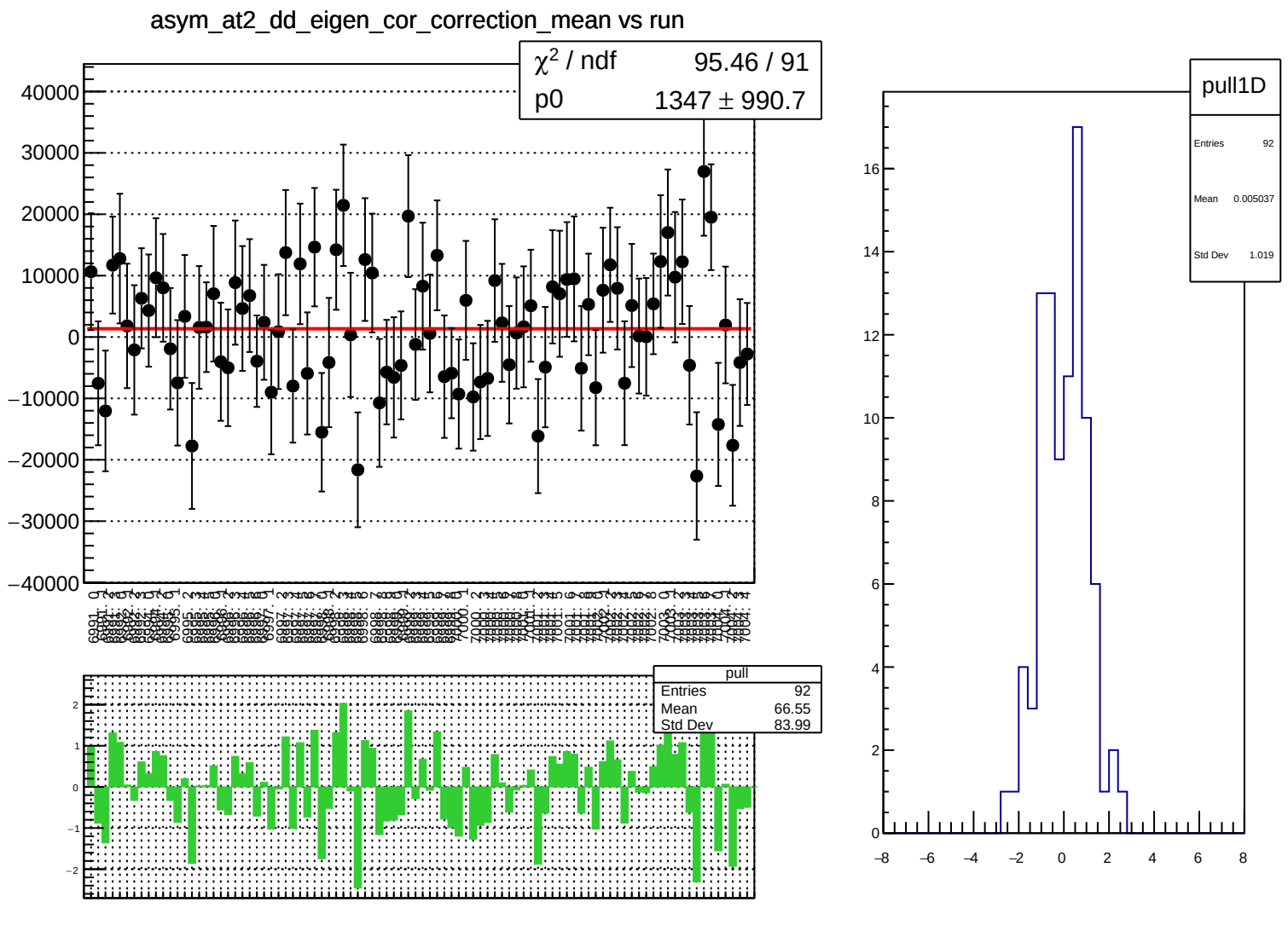

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 95.46 / 91
p0 1347 ± 990.7
pull
Entries 92
Mean 66.55
Std Dev 83.99
pull1D
Entries 92
Mean 0.005037
Std Dev 1.019

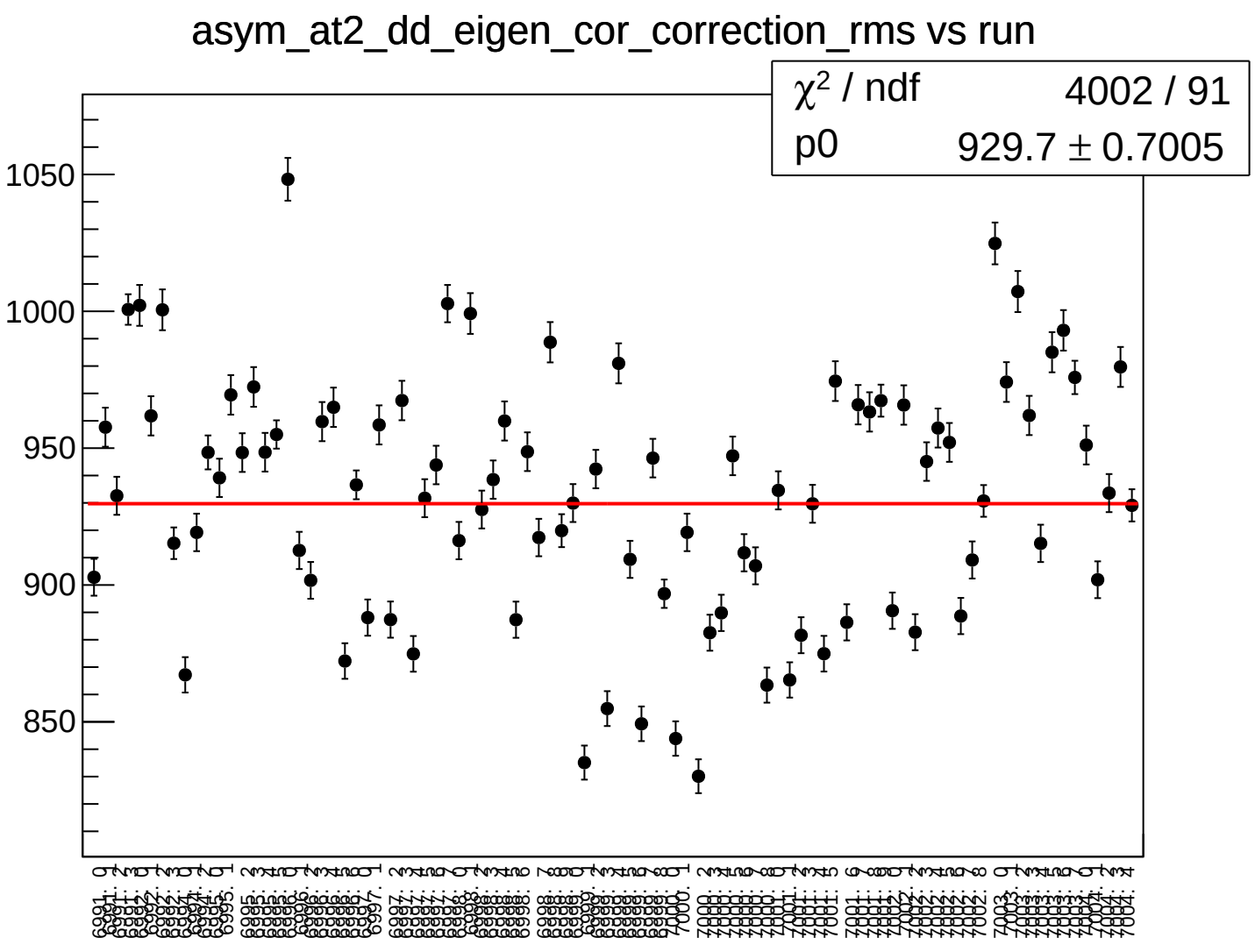

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 4002 / 91
p0 929.7 ± 0.7005
1050
1000
950
900
850

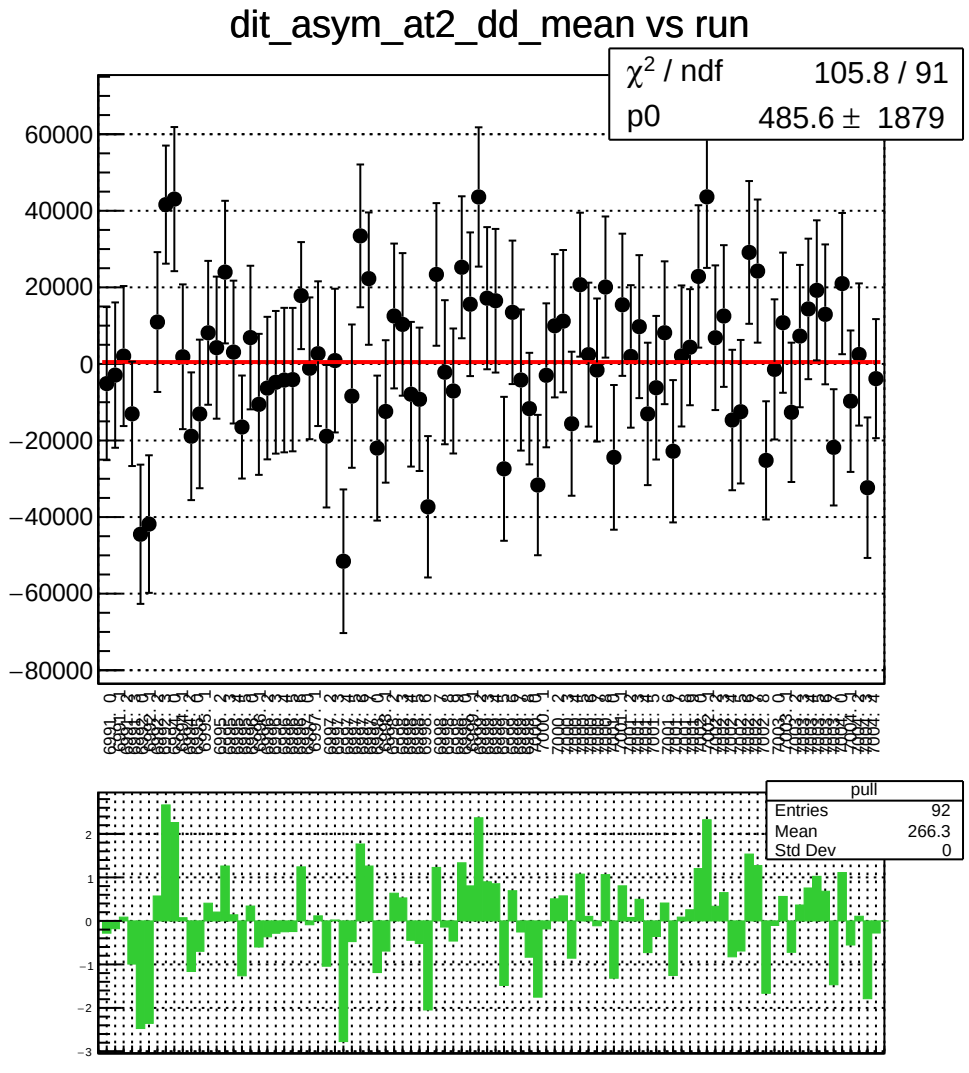

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 106.9 / 91
p0 366.9 ± 1876
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 233
Std Dev 0
2
1
0
−1
−2
−3

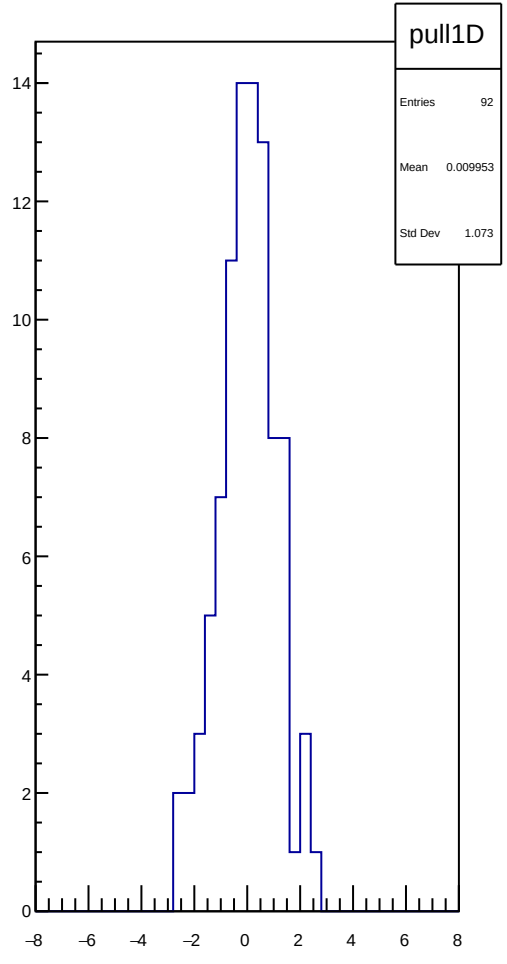

pull1D
Entries 92
Mean 0.01077
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

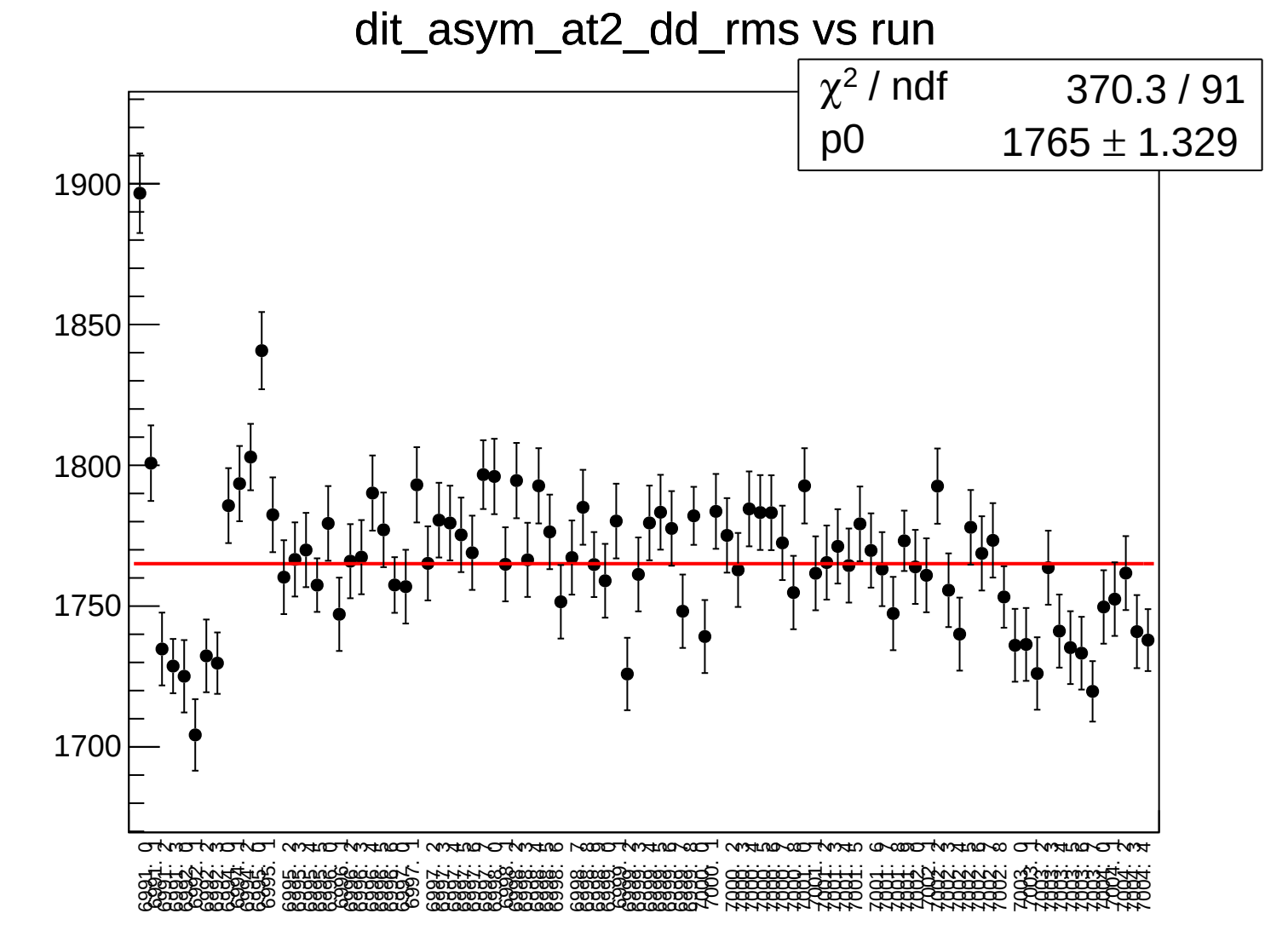

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 366.5 / 91
p0 1762 ± 1.326
1900
1850
1800
1750
1700

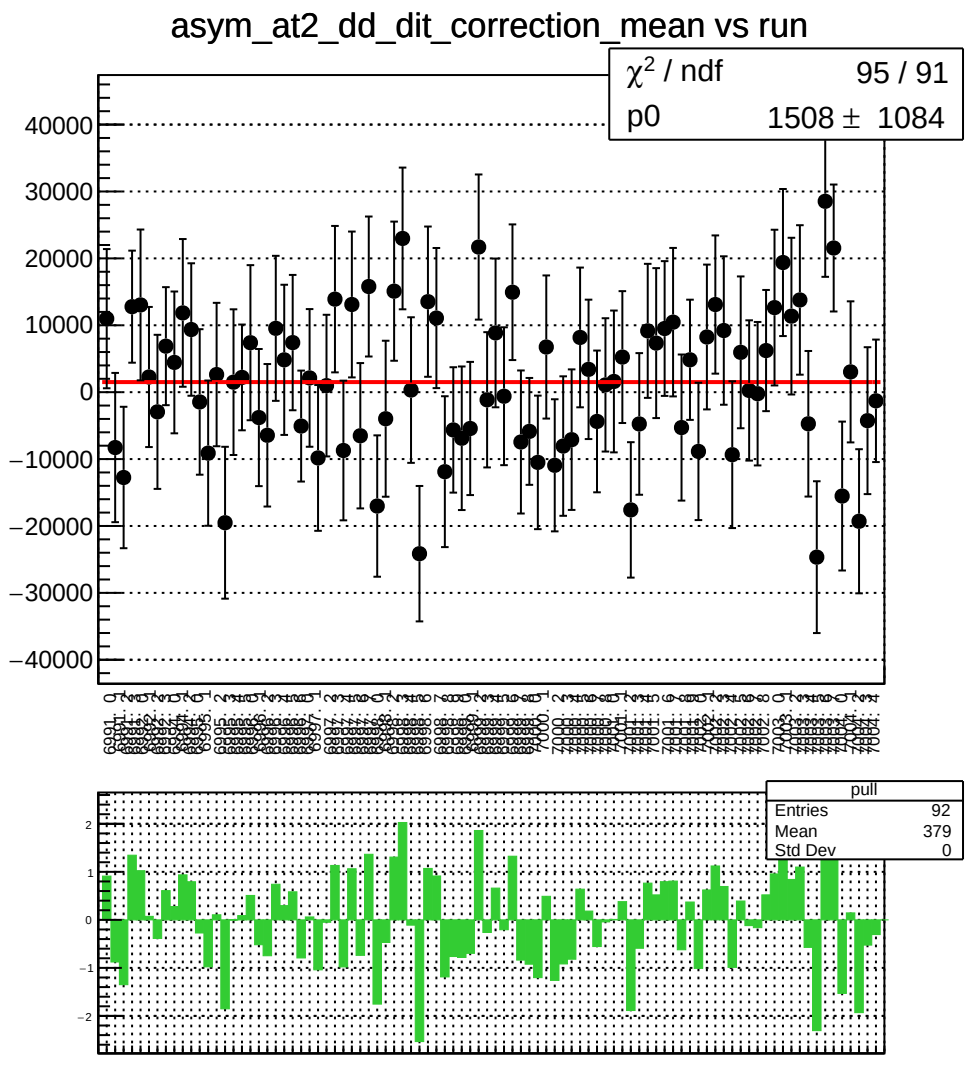

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.46 / 91
p0 1347 ± 990.7
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 66.55
Std Dev 83.99
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005037
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

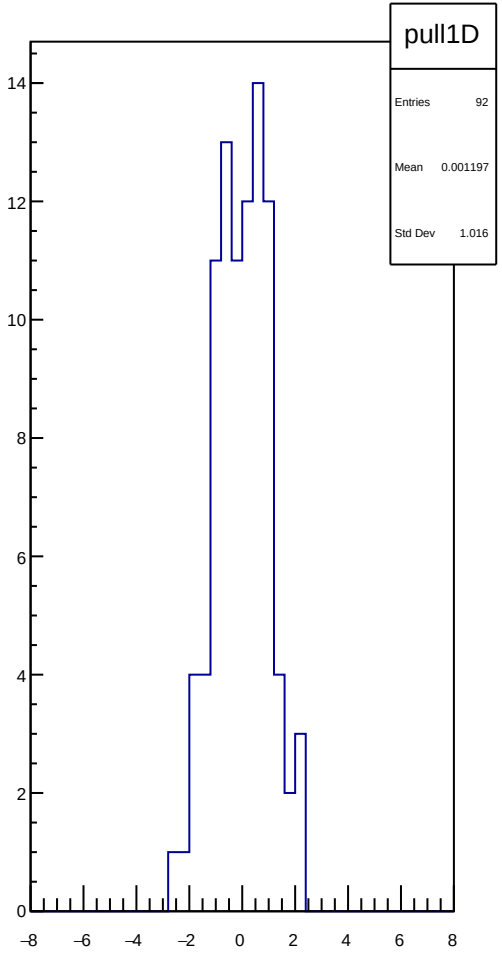

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4002 / 91
p0 929.7 ± 0.7005
1050
1000
950
900
850

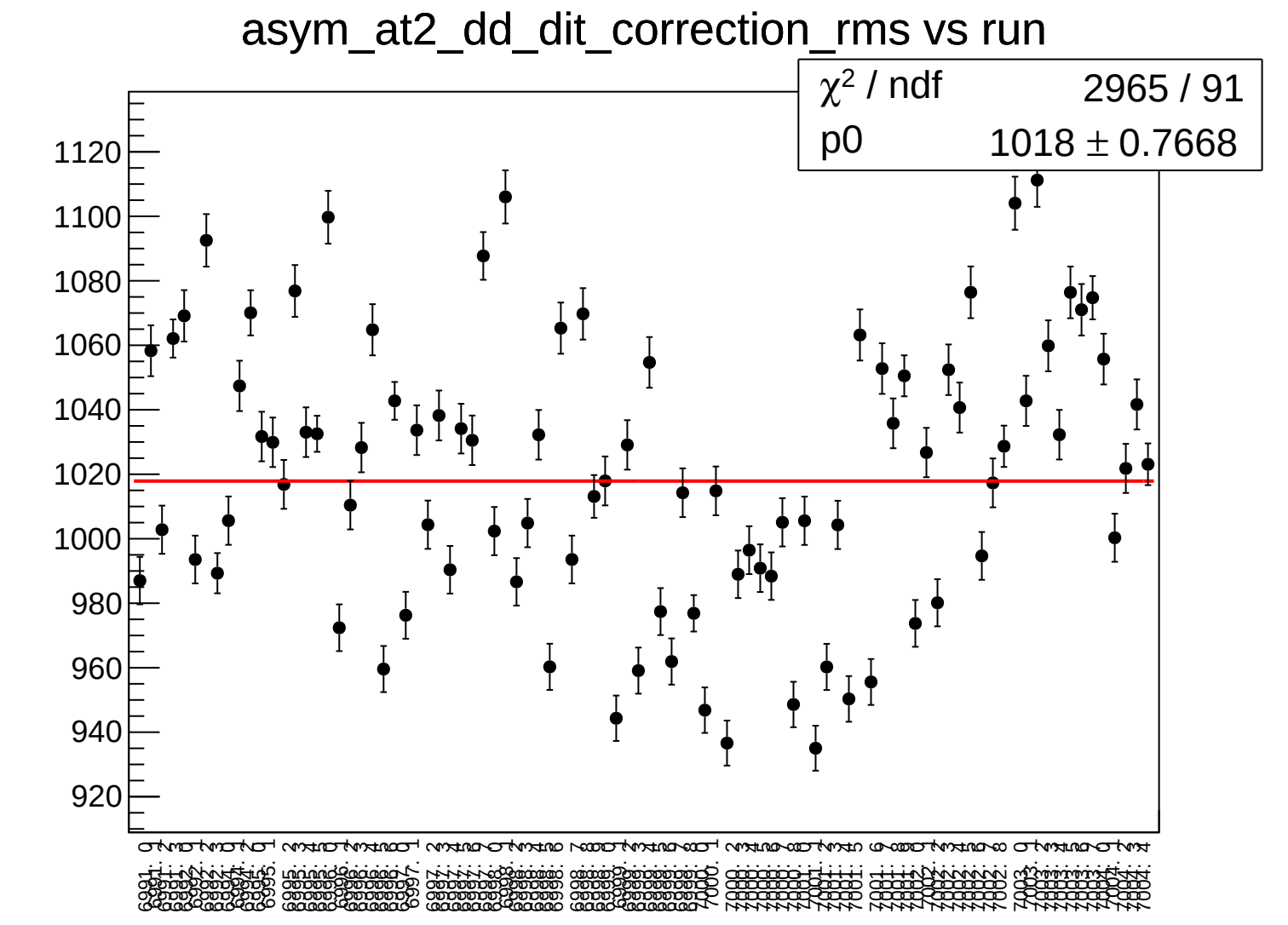

dit_asym_at2_dd_mean vs run
χ² / ndf 105.8 / 91
p0 485.6 ± 1879
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 266.3
Std Dev 0
2
1
0
−1
−2
−3

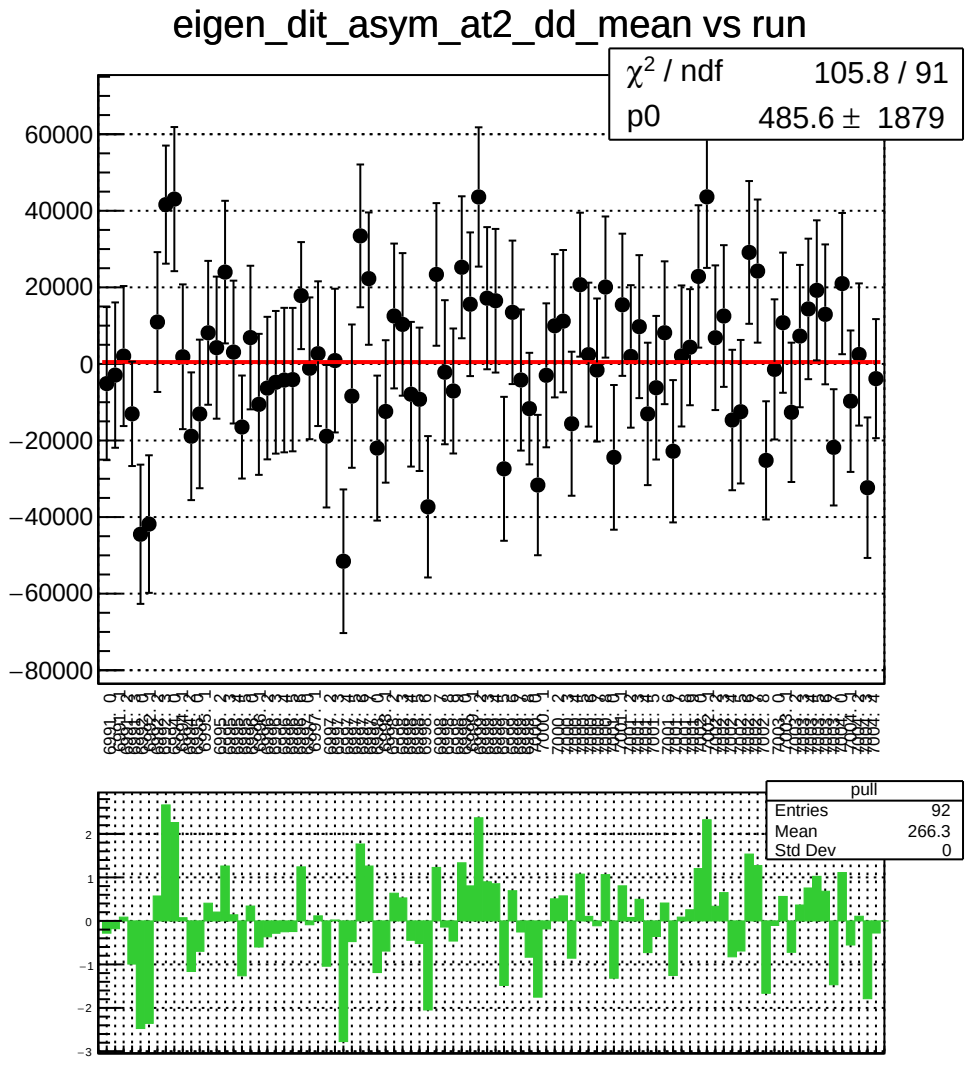

pull1D
Entries 92
Mean 0.009953
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

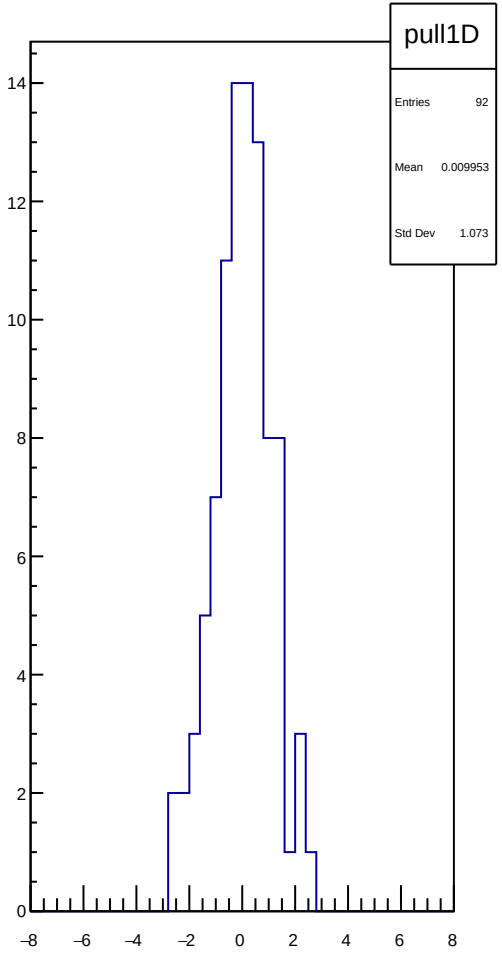

dit_asym_at2_dd_rms vs run
χ² / ndf 370.3 / 91
p0 1765 ± 1.329
1900
1850
1800
1750
1700

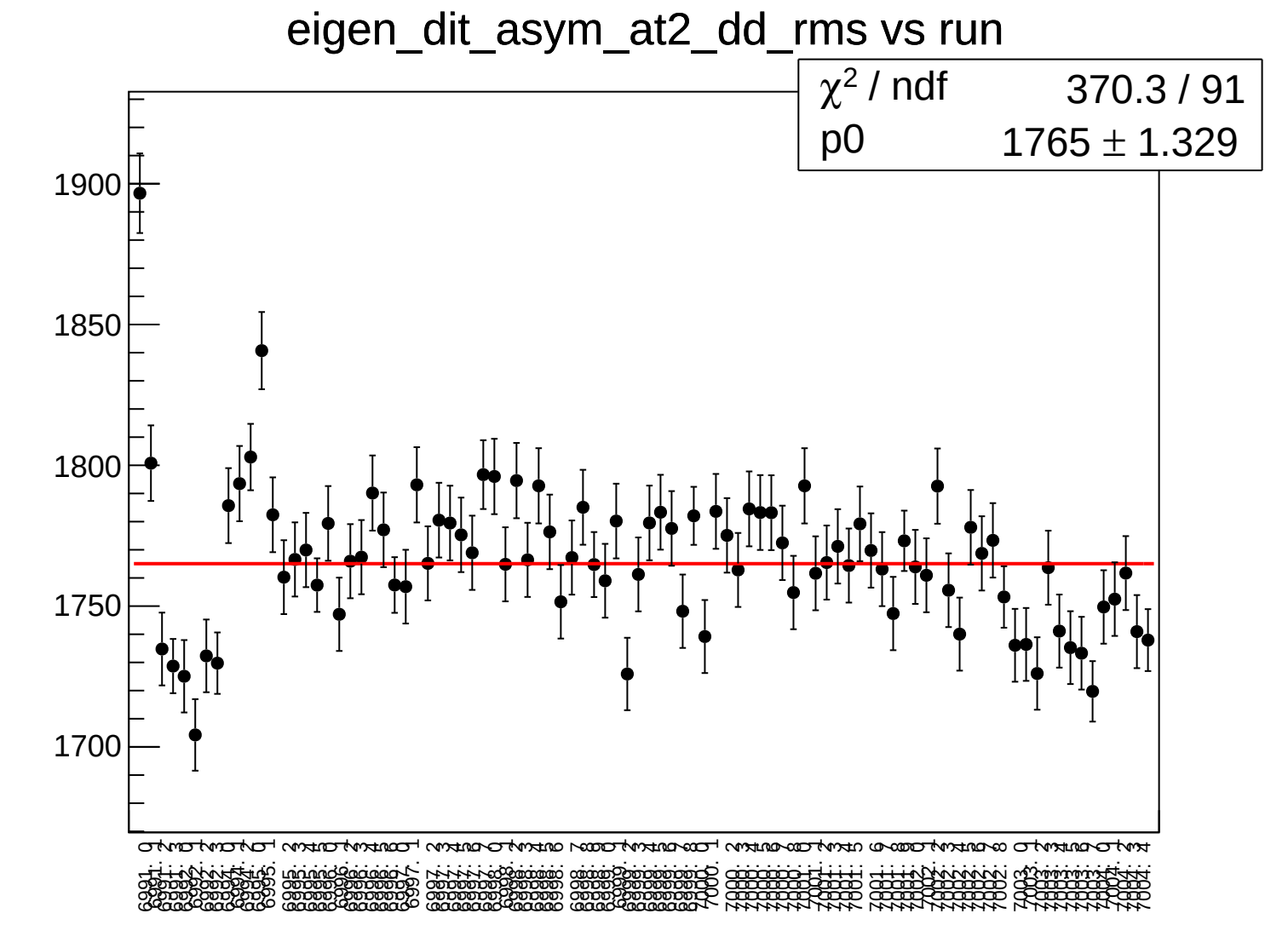

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 95 / 91
p0 1508 ± 1084
pull
Entries 92
Mean 379
Std Dev 0

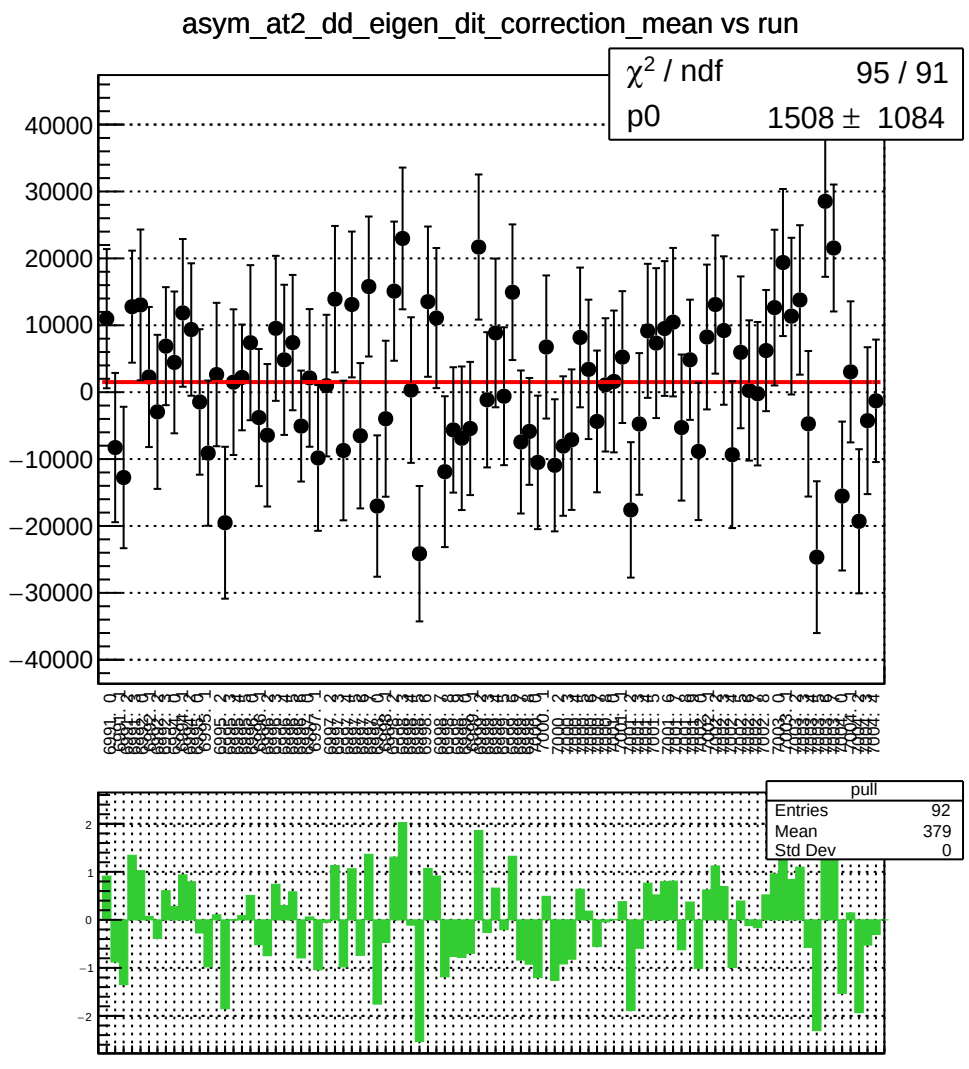

pull1D
Entries 92
Mean 0.001197
Std Dev 1.016

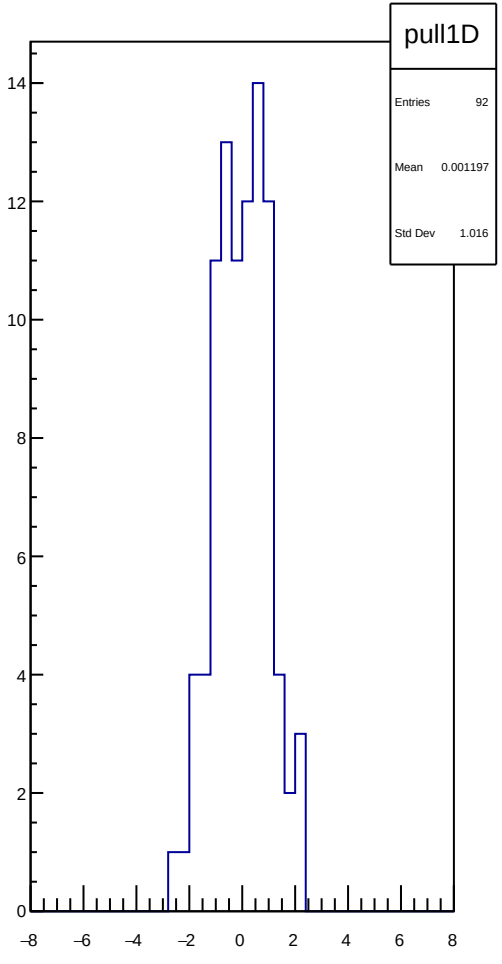

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2965 / 91
p0 1018 ± 0.7668
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

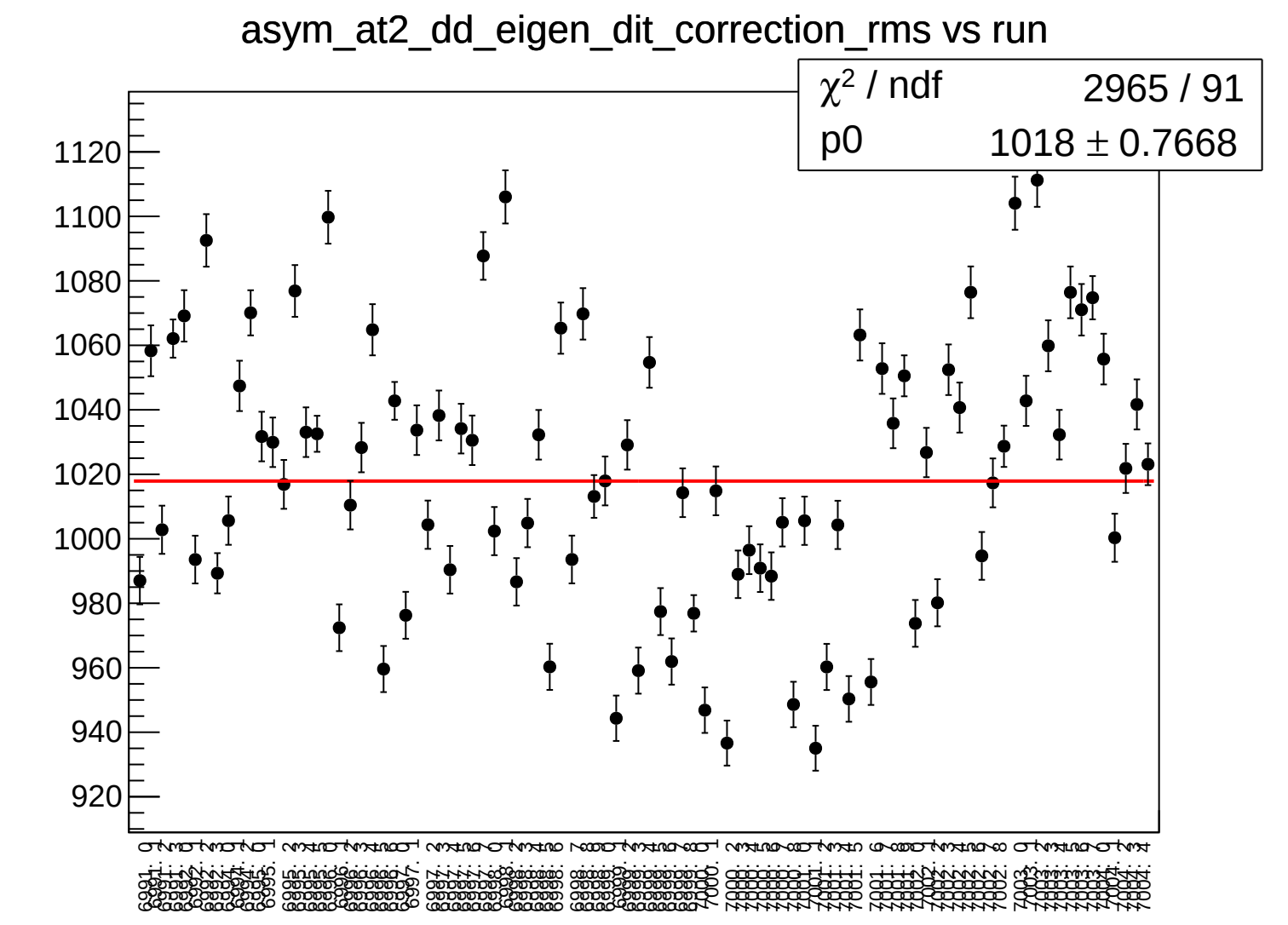

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 105.8 / 91
p0 485.6 ± 1879
pull
Entries 92
Mean 266.3
Std Dev 0

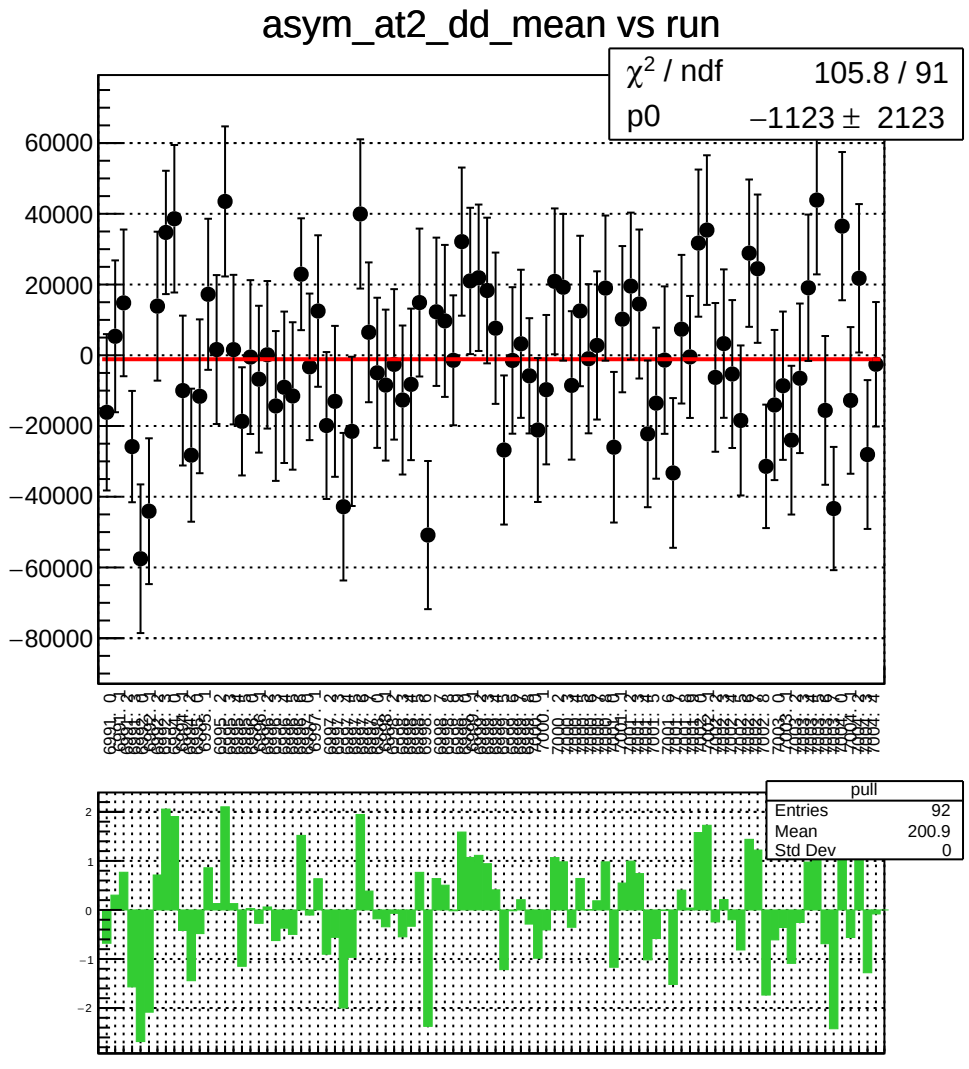

pull1D
Entries 92
Mean 0.009953
Std Dev 1.073

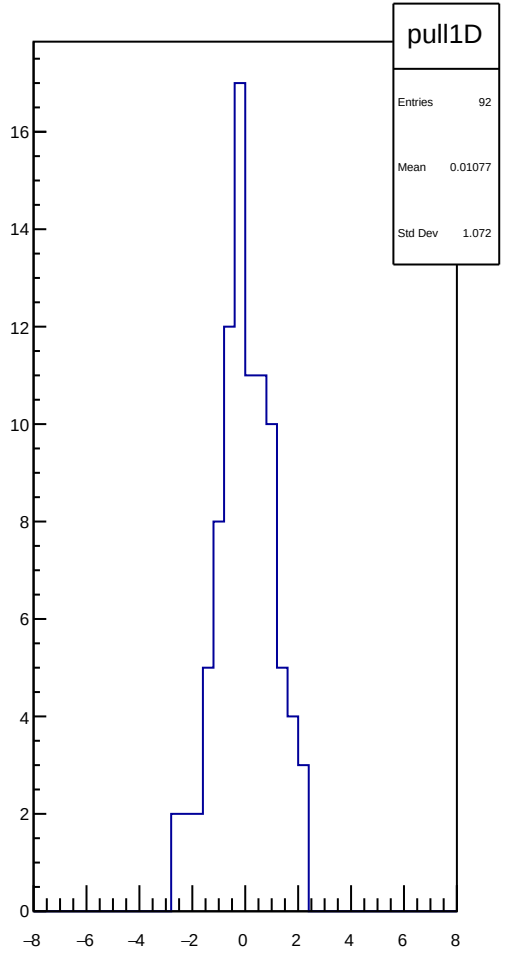

eigen_dit_asym_at2_dd_rms vs run
χ^2 / ndf 370.3 / 91
p0 1765 ± 1.329
1900
1850
1800
1750
1700

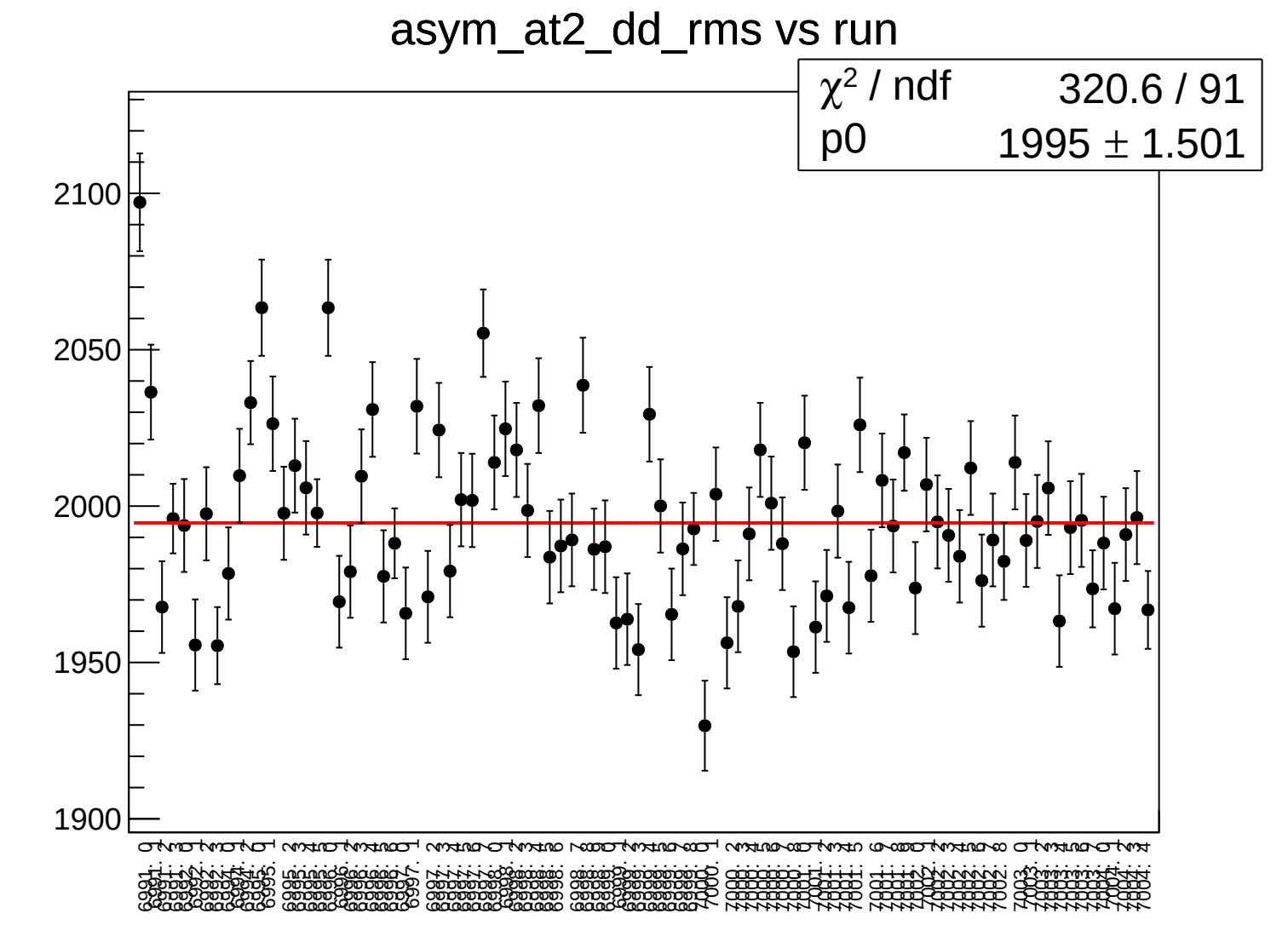

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 95 / 91
p0 1508 ± 1084
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 379
Std Dev 0
2
1
0
−1
−2

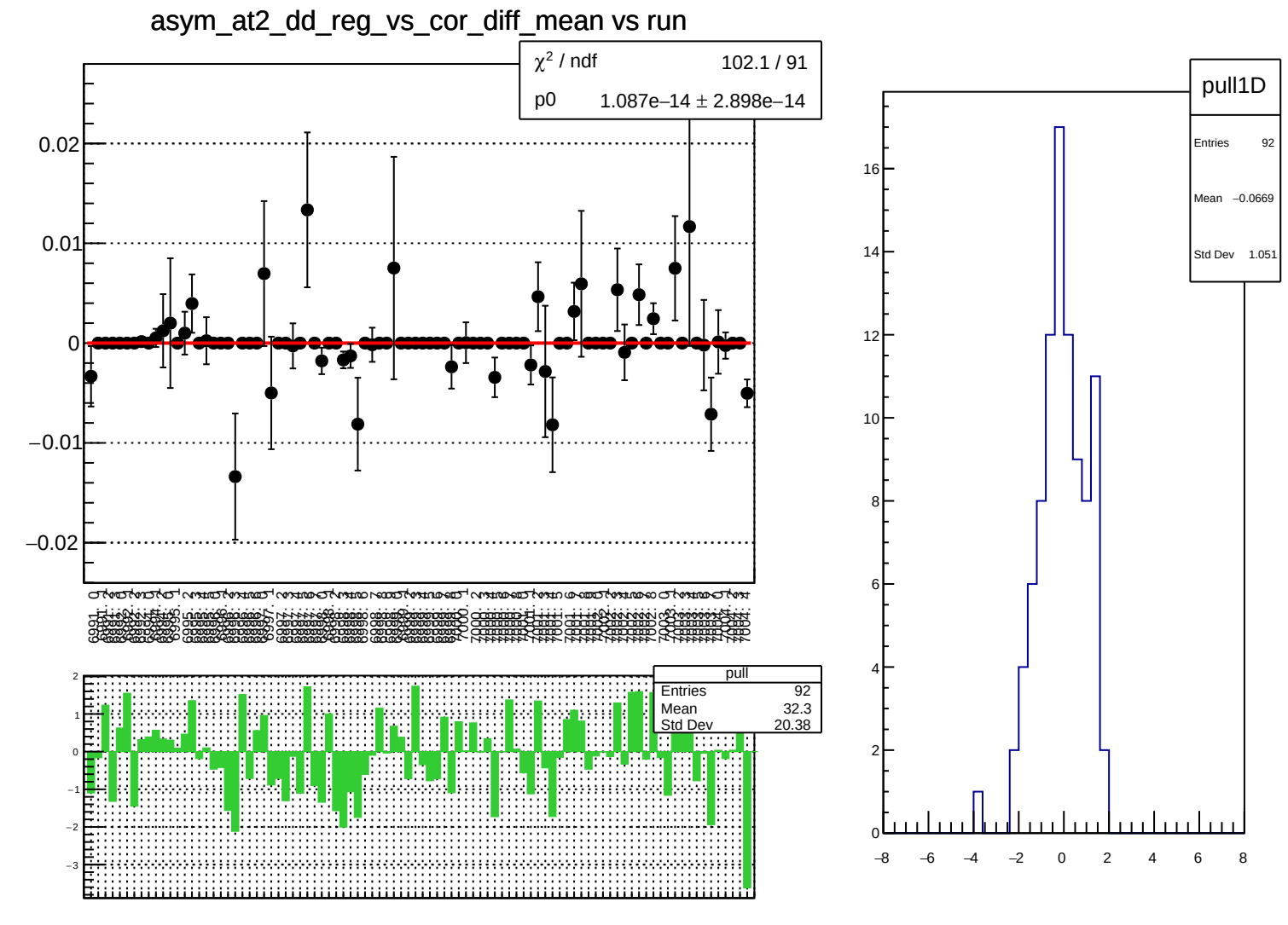

pull1D
Entries 92
Mean 0.001197
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

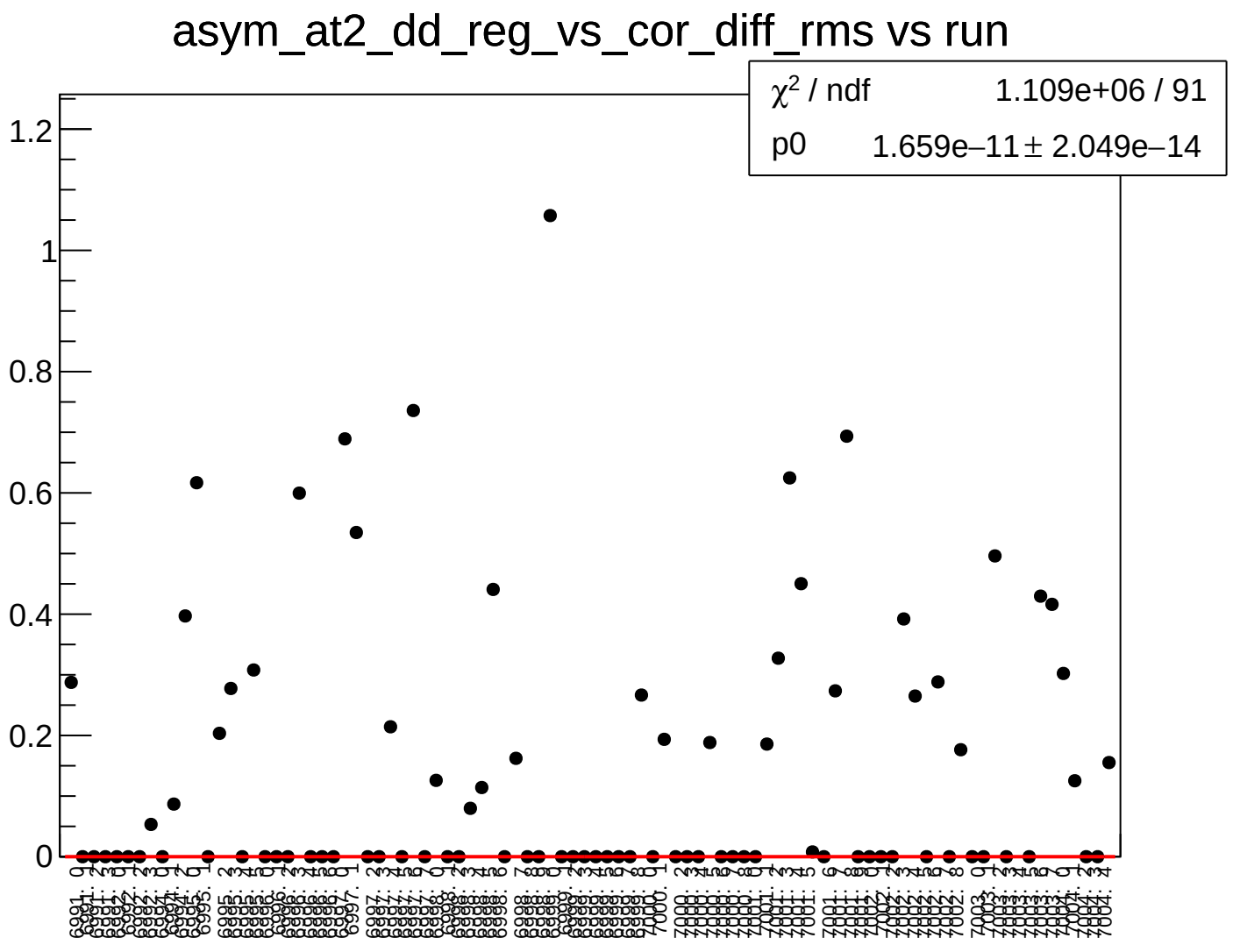

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2965 / 91
p0 1018 ± 0.7668
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

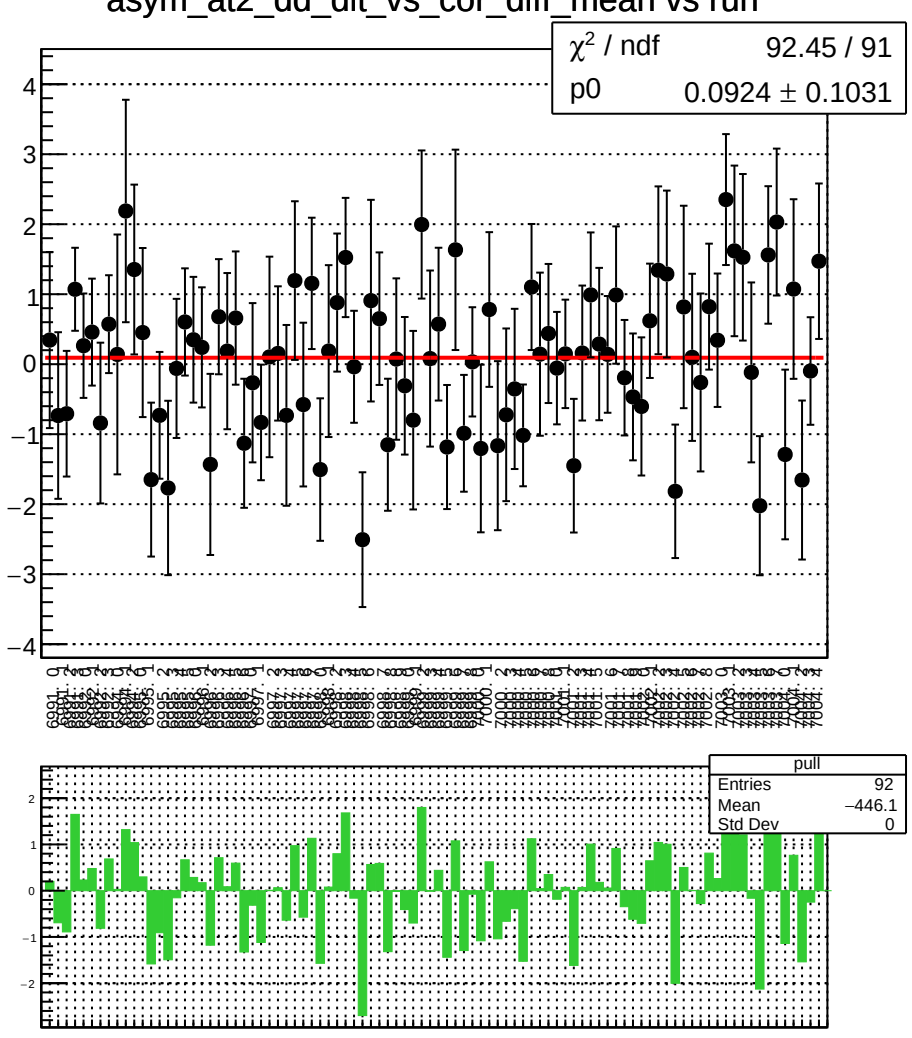

asym_at2_dd_mean vs run
χ² / ndf 105.8 / 91
p0 −1123 ± 2123
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 200.9
Std Dev 0
2
1
0
−1
−2

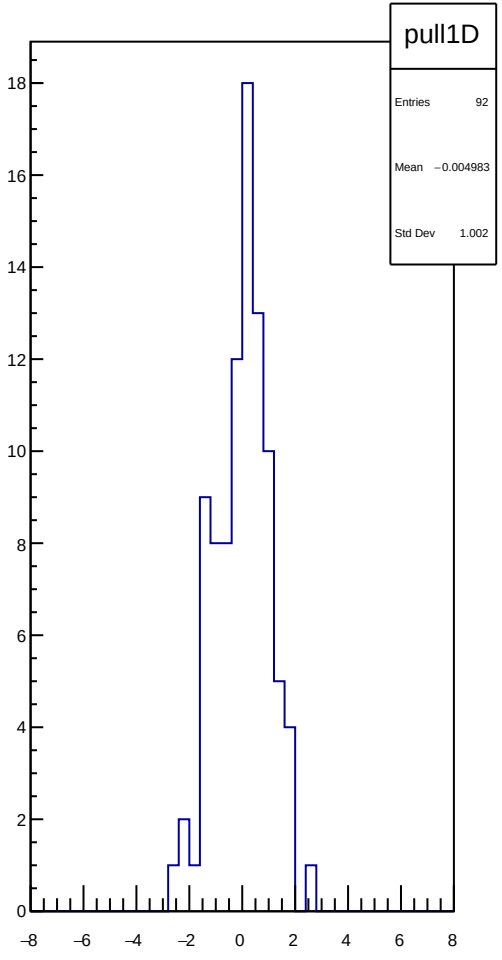

pull1D
Entries 92
Mean 0.01077
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

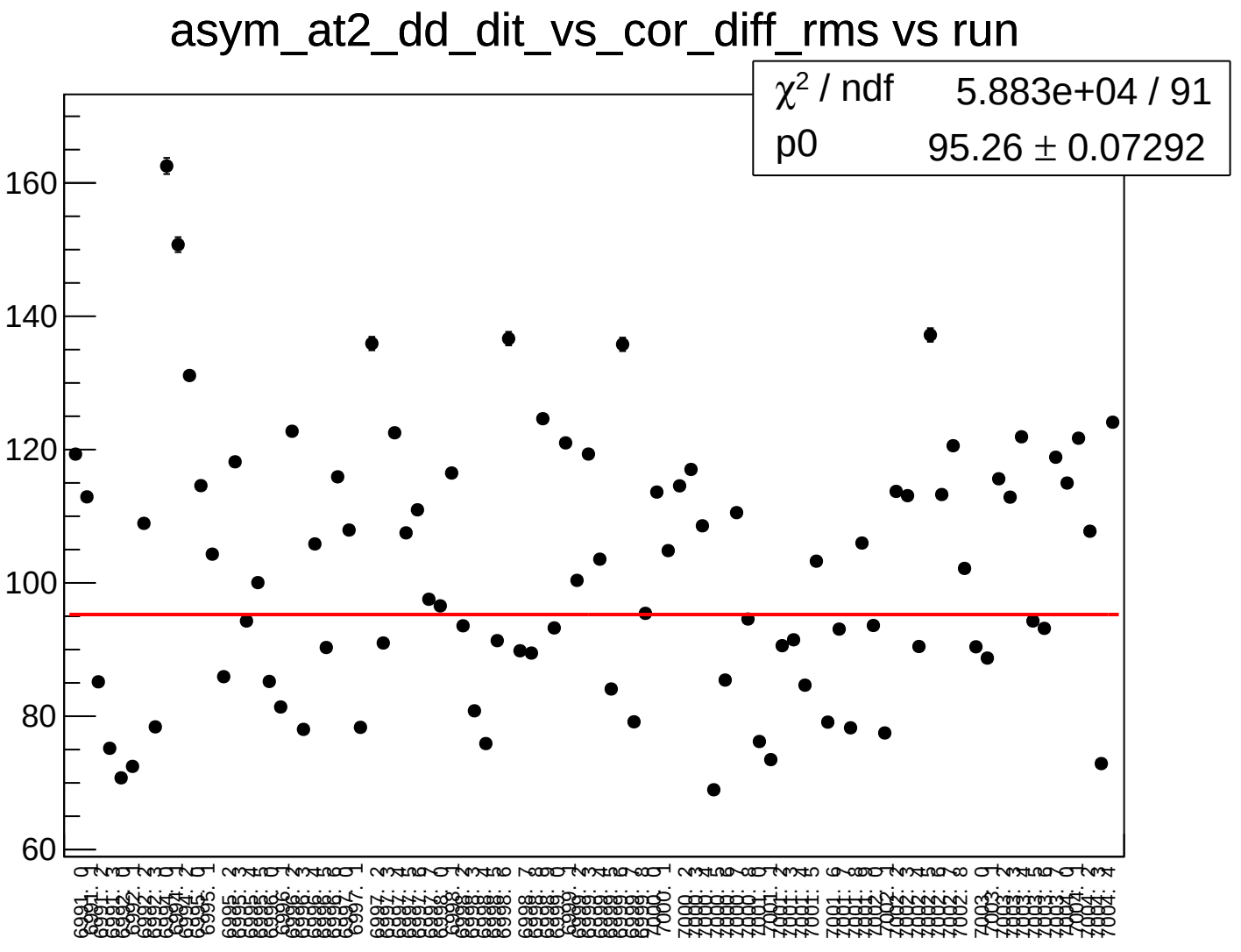

asym_at2_dd_rms vs run
χ² / ndf 320.6 / 91
p0 1995 ± 1.501
2100
2050
2000
1950
1900

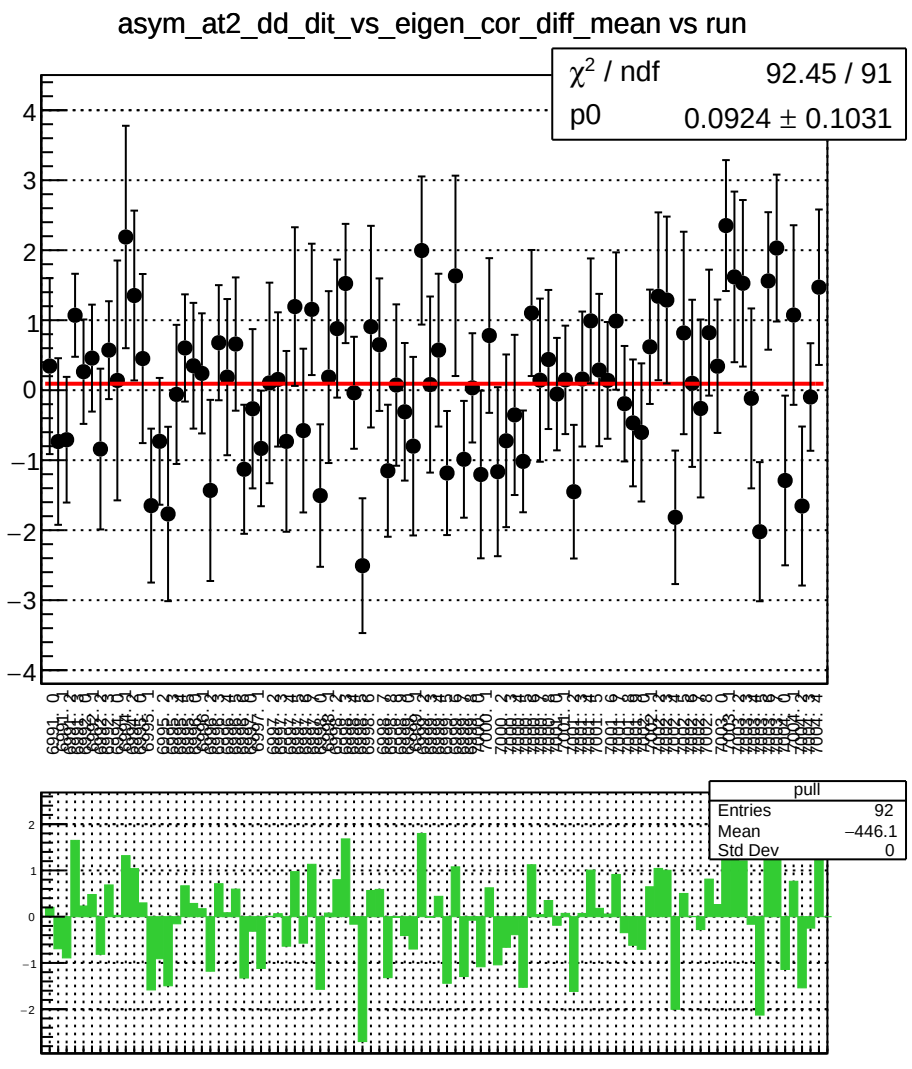

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 91
p0 1.087e−14 ± 2.898e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 32.3
Std Dev 20.38
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0669
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

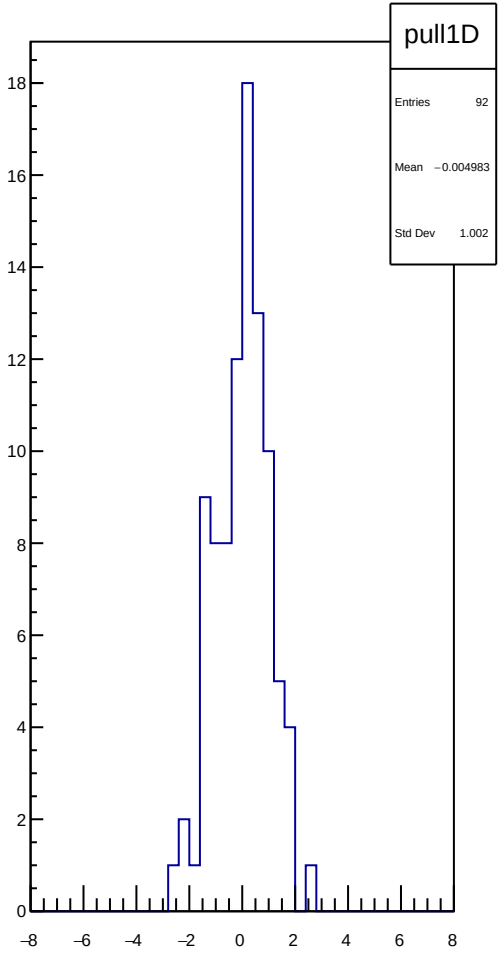

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 91
p0 1.659e−11 ± 2.049e−14
1.2
1
0.8
0.6
0.4
0.2
0

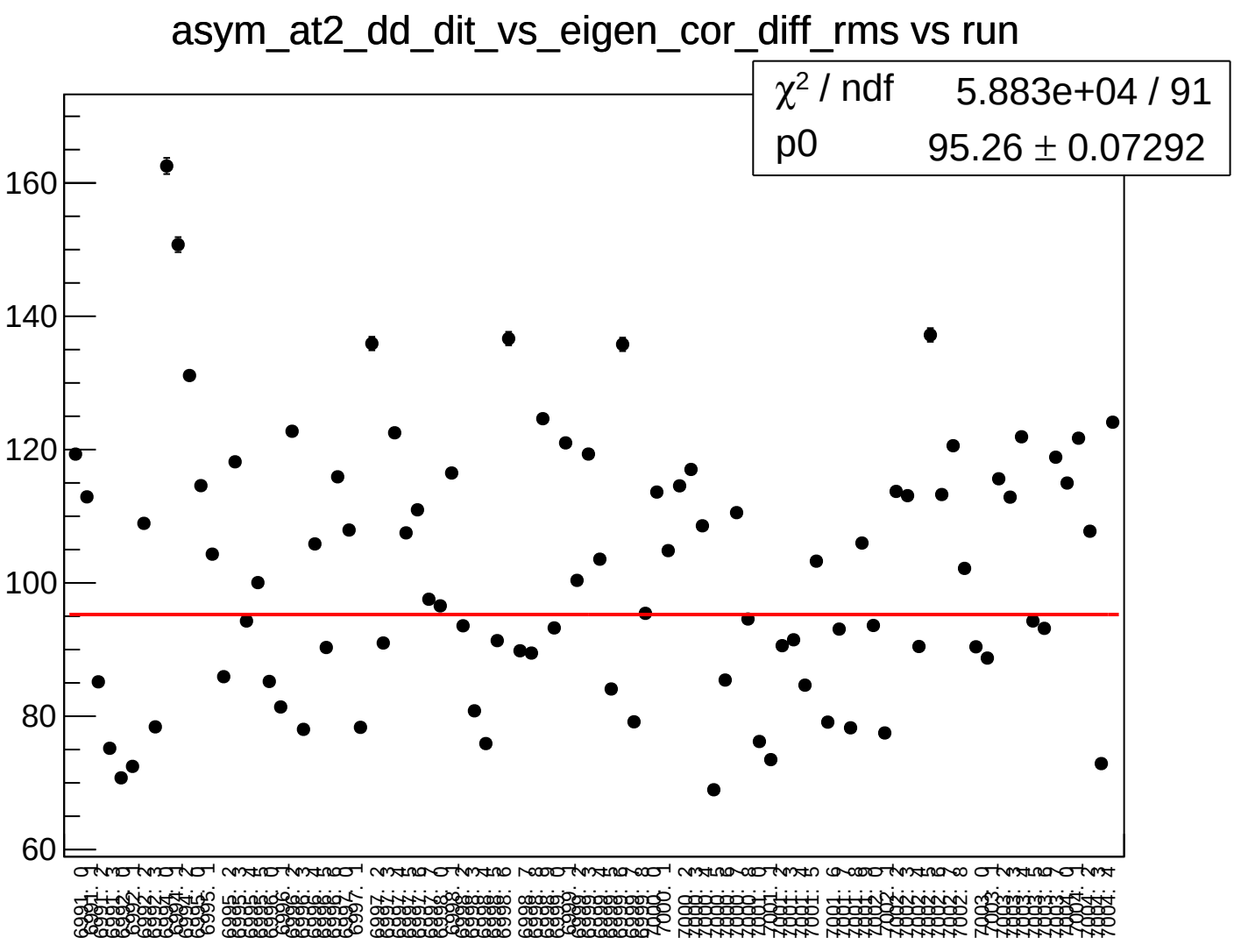

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.45 / 91
p0 0.0924 ± 0.1031
pull
Entries 92
Mean −446.1
Std Dev 0

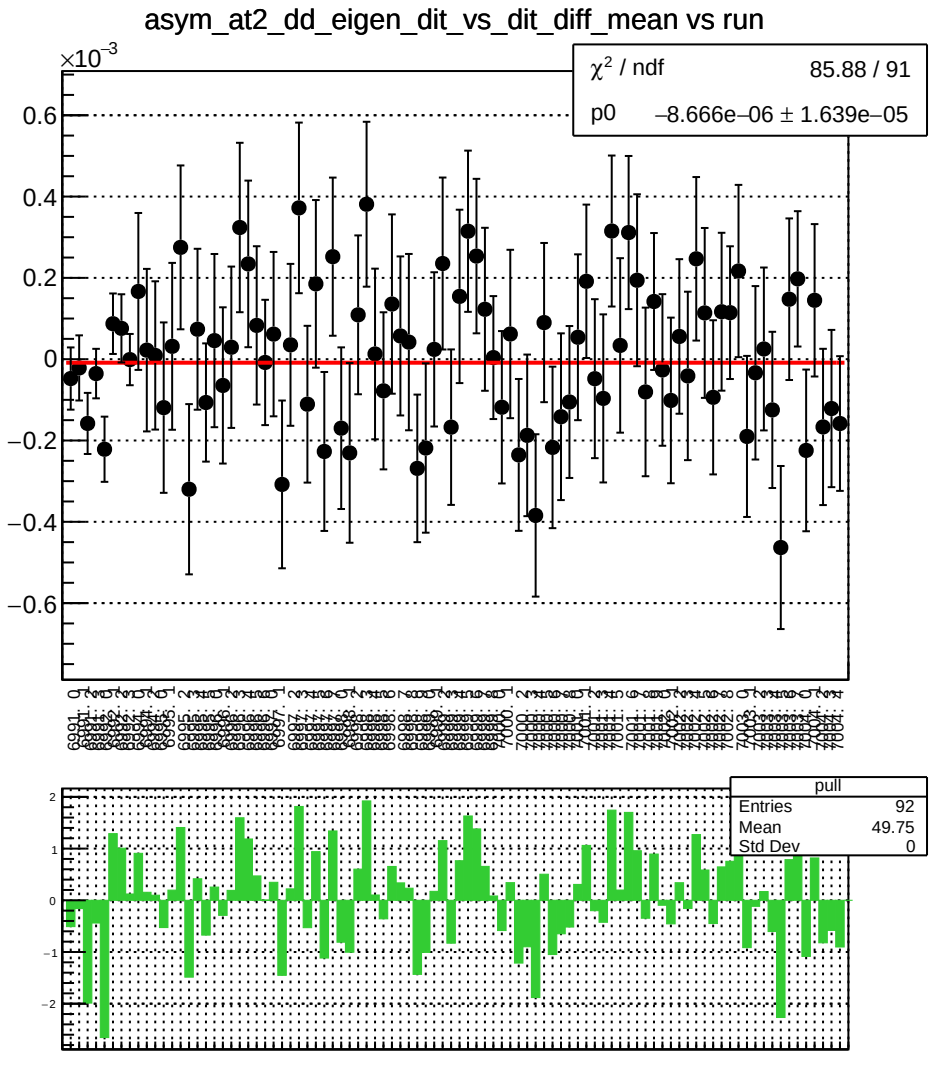

pull1D
Entries 92
Mean −0.004983
Std Dev 1.002

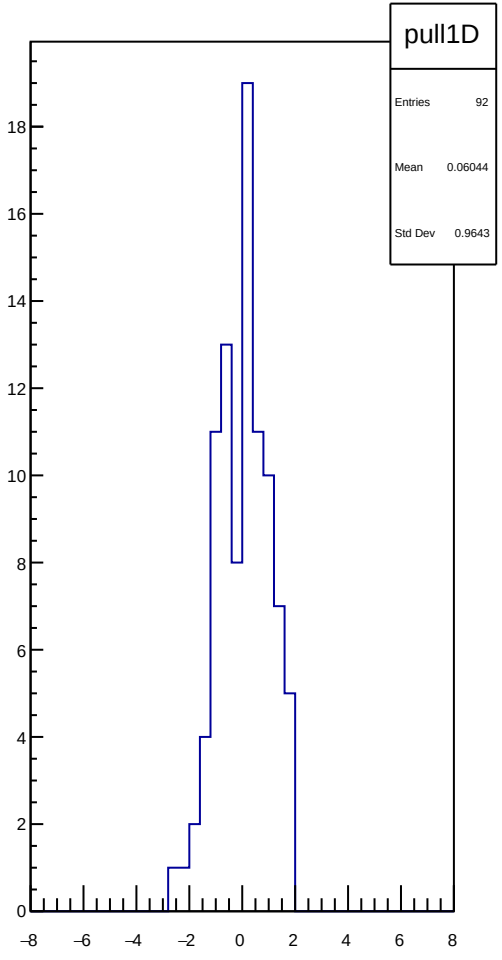

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.883e+04 / 91
p0 95.26 ± 0.07292
160
140
120
100
80
60

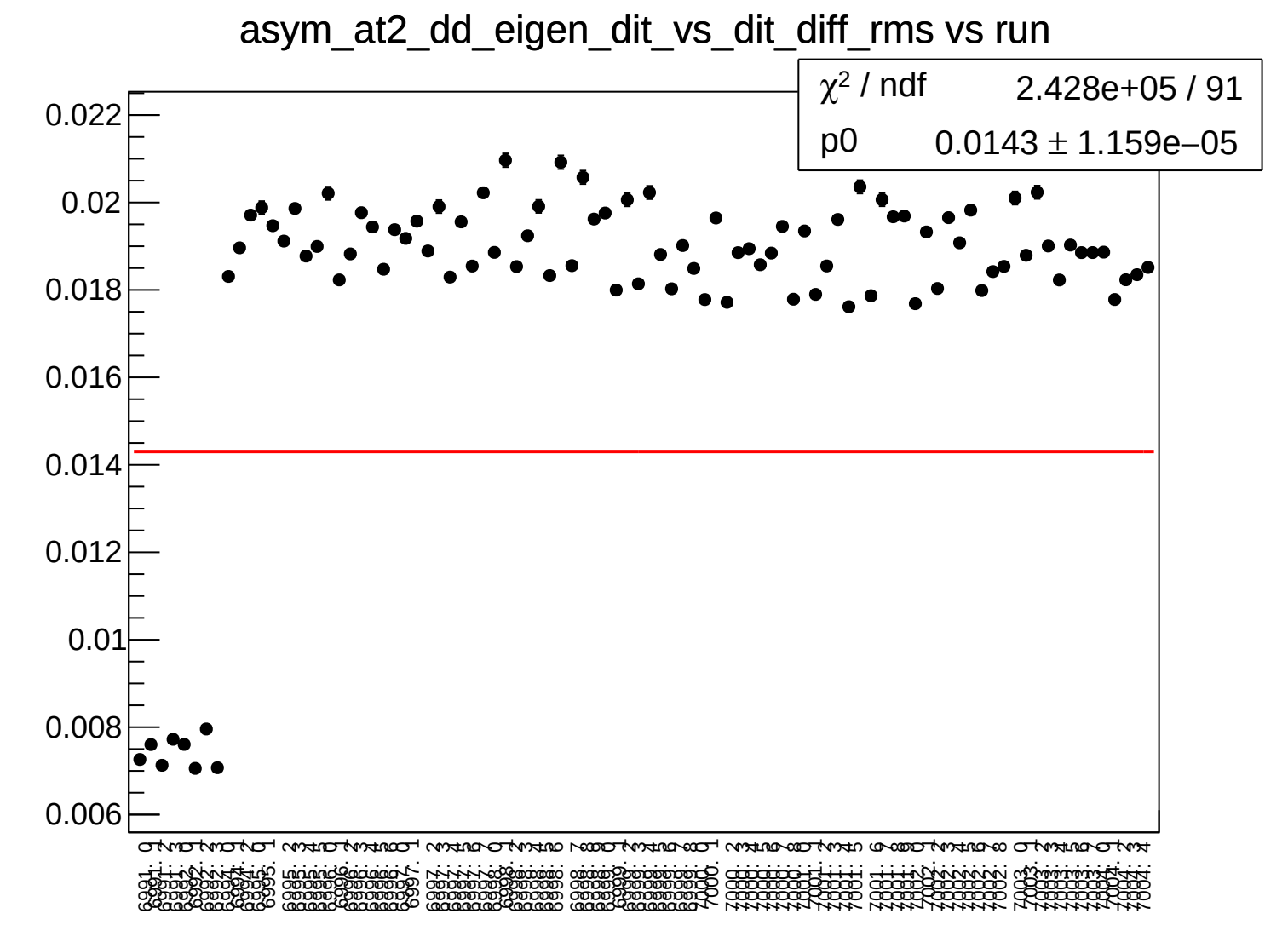

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.45 / 91
p0 0.0924 ± 0.1031
pull
Entries 92
Mean −446.1
Std Dev 0

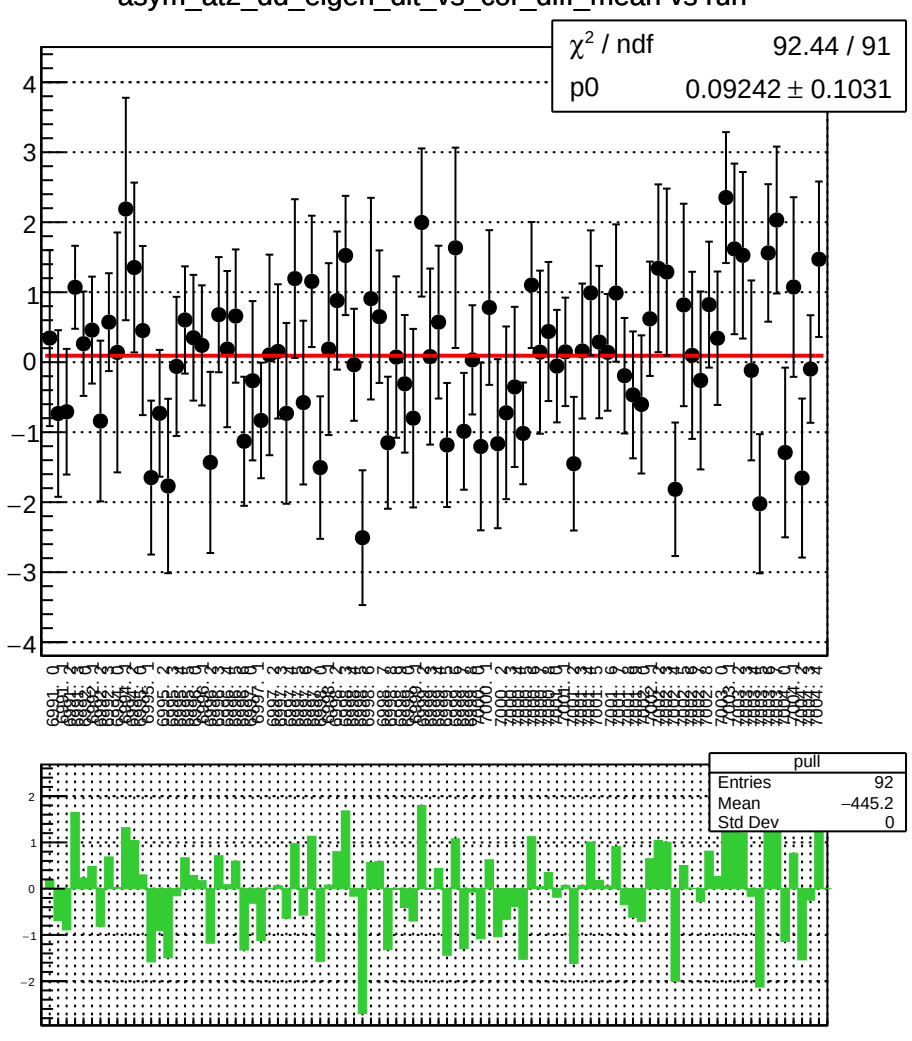

pull1D
Entries 92
Mean −0.004983
Std Dev 1.002

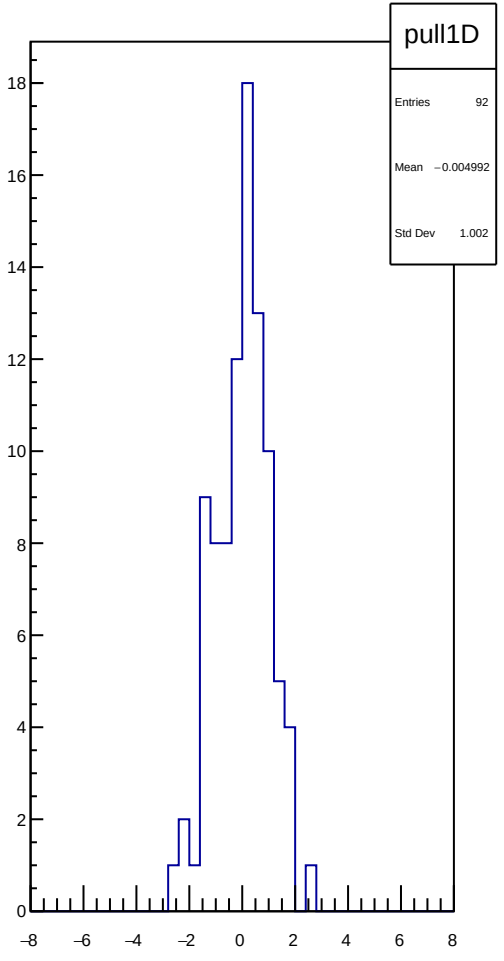

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.883e+04 / 91
p0 95.26 ± 0.07292
160
140
120
100
80
60

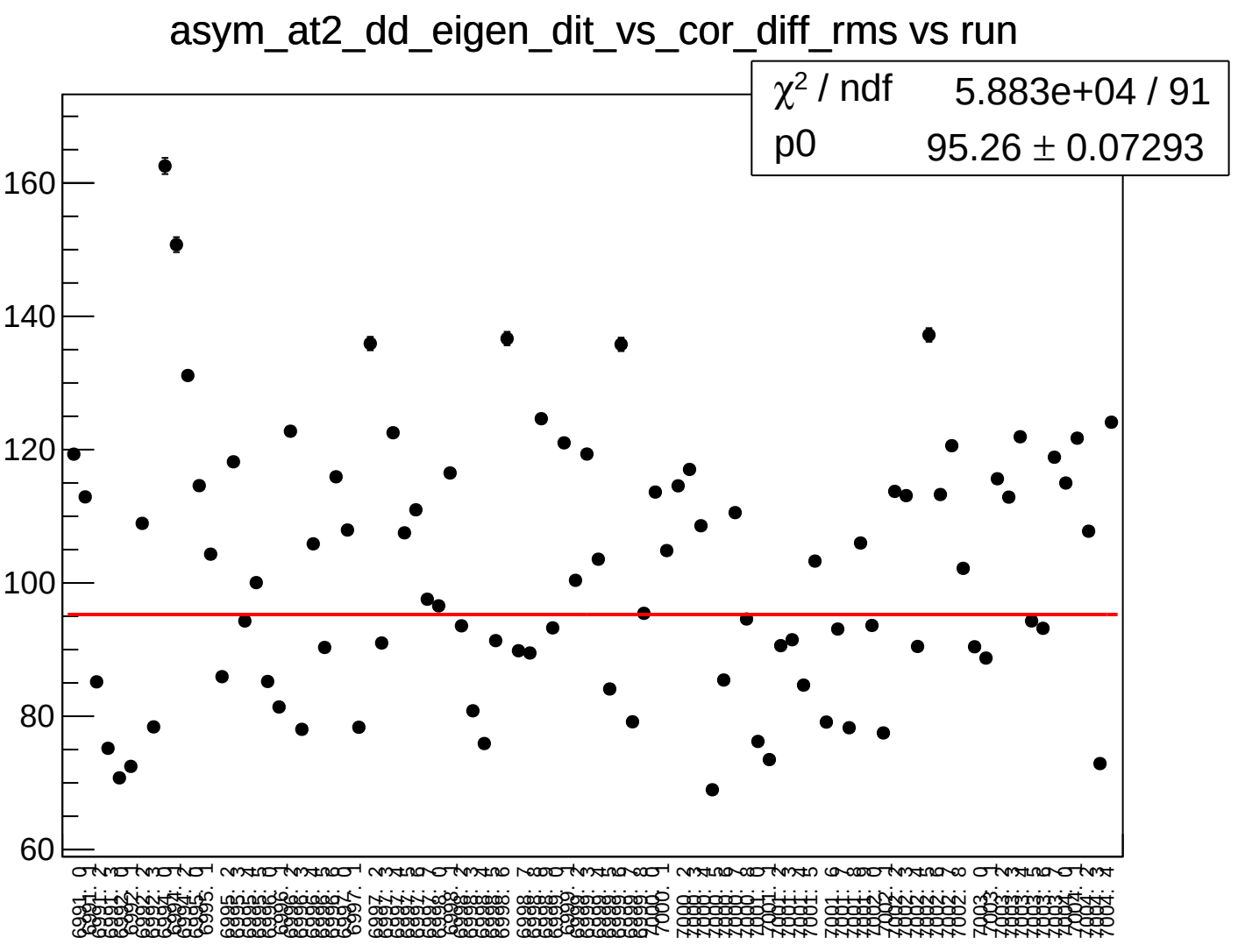

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.88 / 91
p0 −8.666e−06 ± 1.639e−05
pull
Entries 92
Mean 49.75
Std Dev 0


pull1D
Entries 92
Mean 0.06044
Std Dev 0.9643

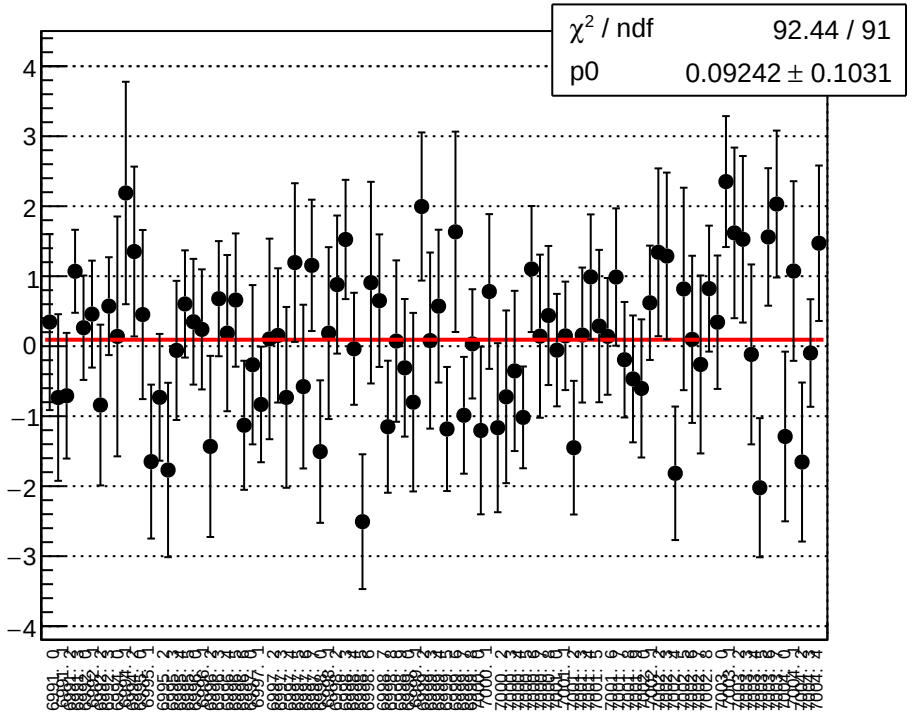

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.428e+05 / 91
p0 0.0143 ± 1.159e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

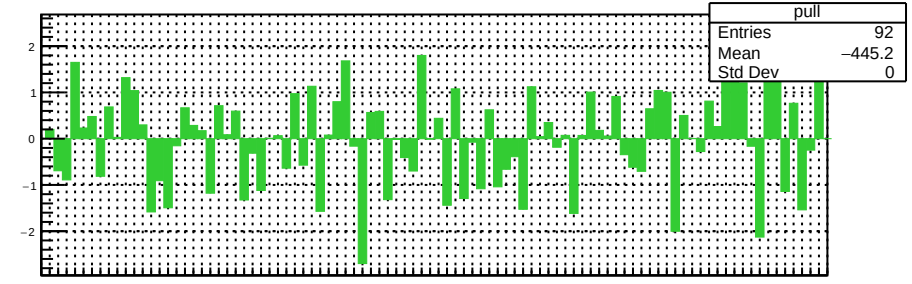

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.44 / 91
p0 0.09242 ± 0.1031
pull
Entries 92
Mean −445.2
Std Dev 0

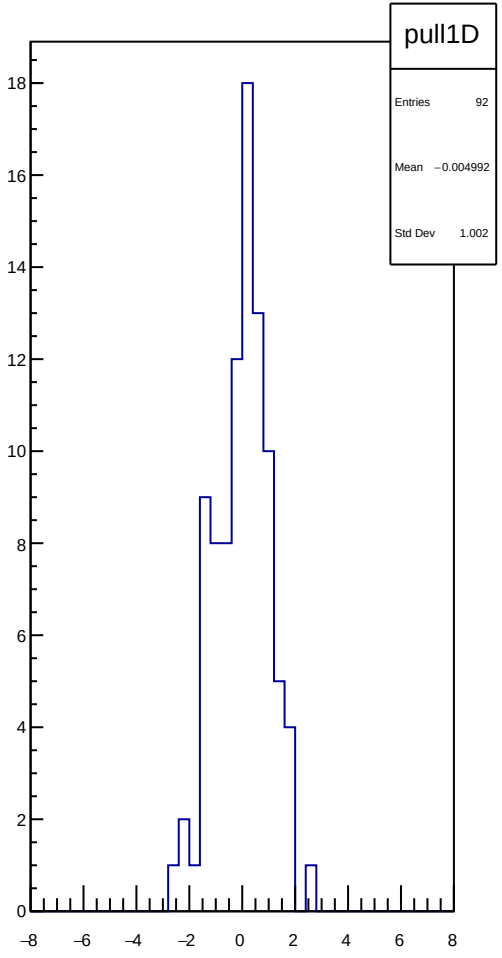

pull1D
Entries 92
Mean −0.004992
Std Dev 1.002

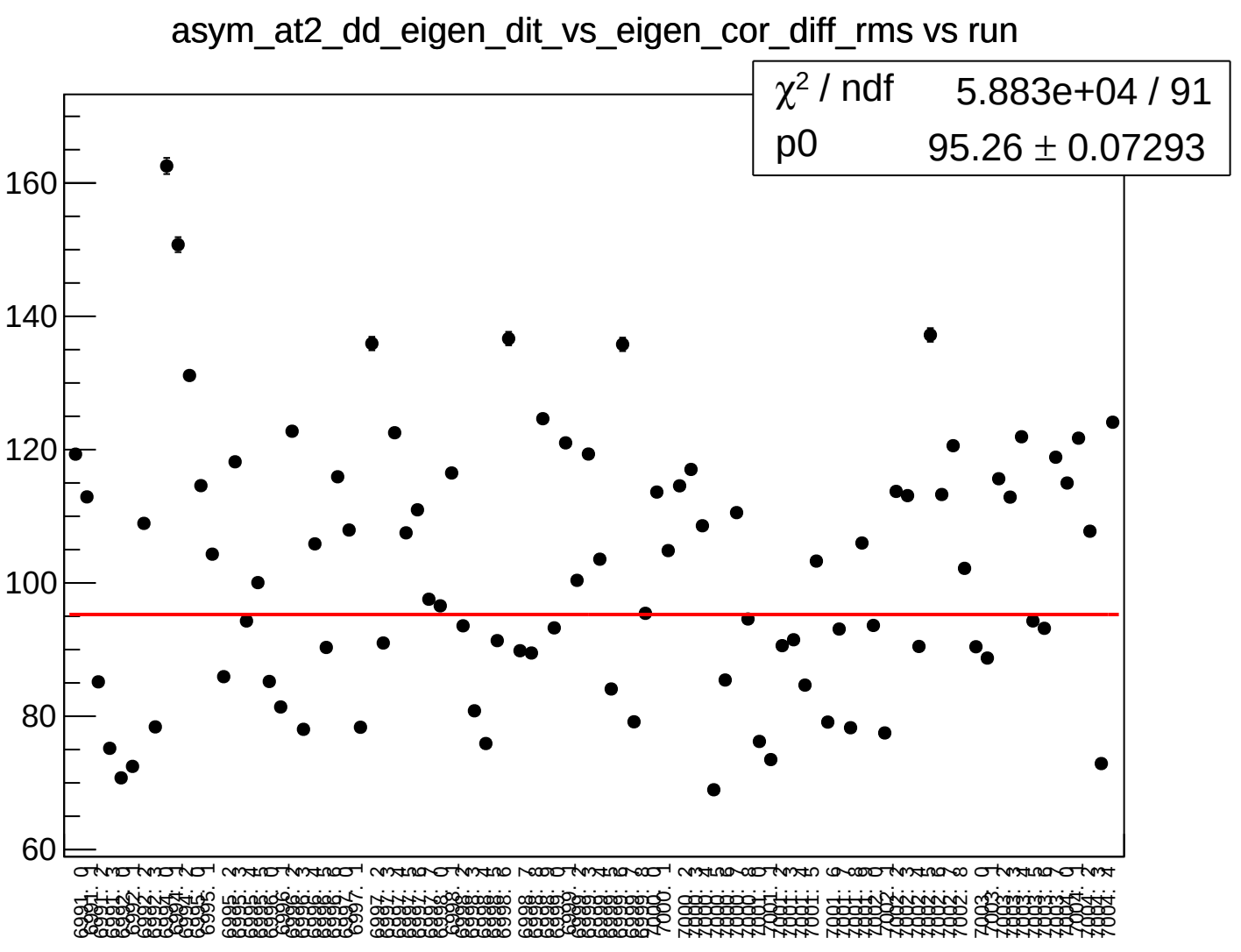

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.883e+04 / 91
p0 95.26 ± 0.07293
160
140
120
100
80
60

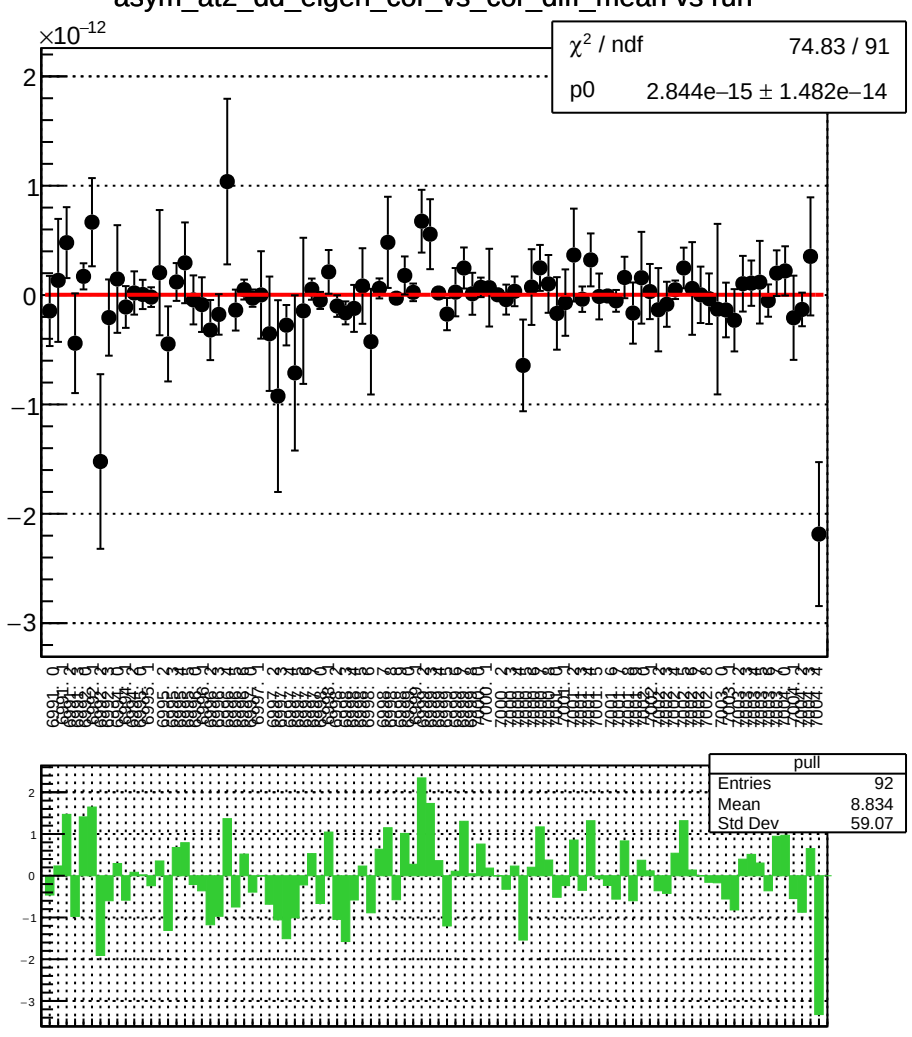
asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

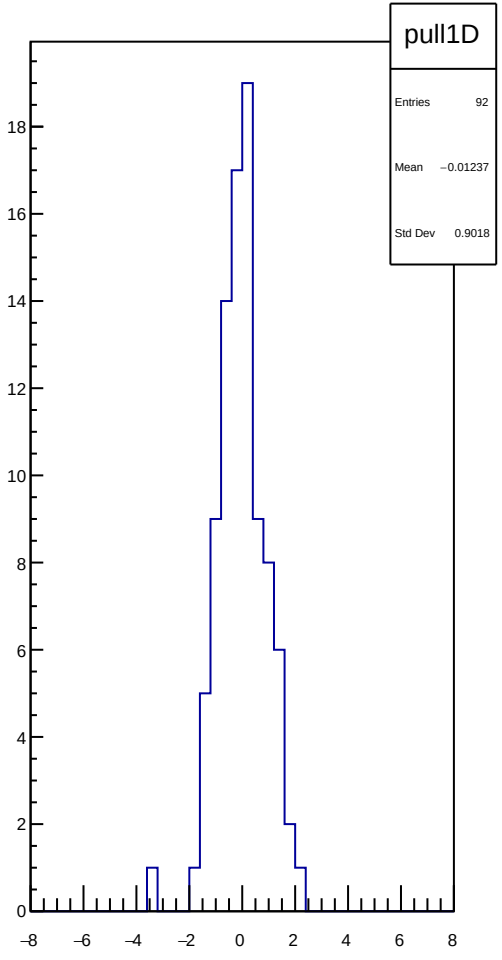


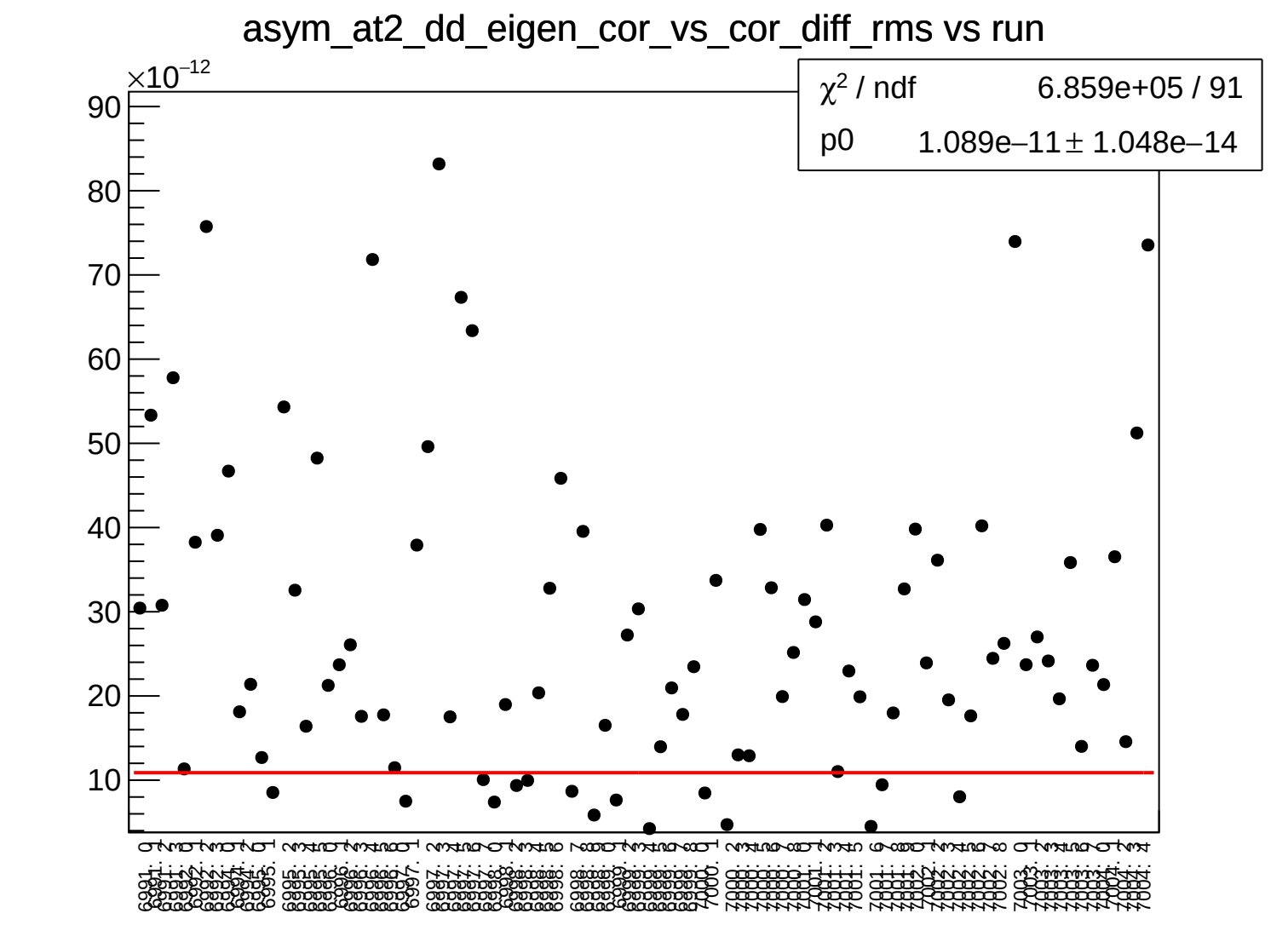


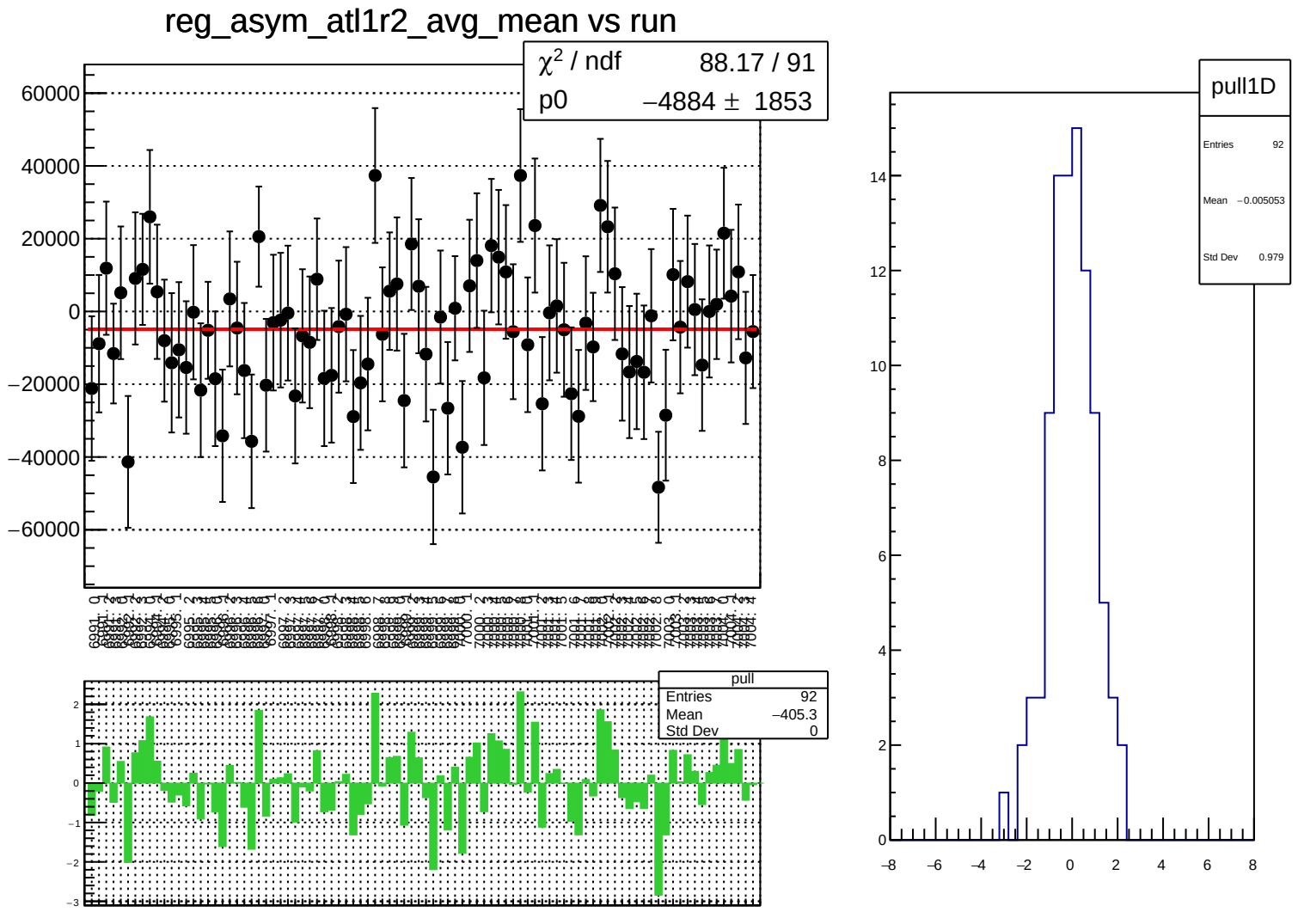


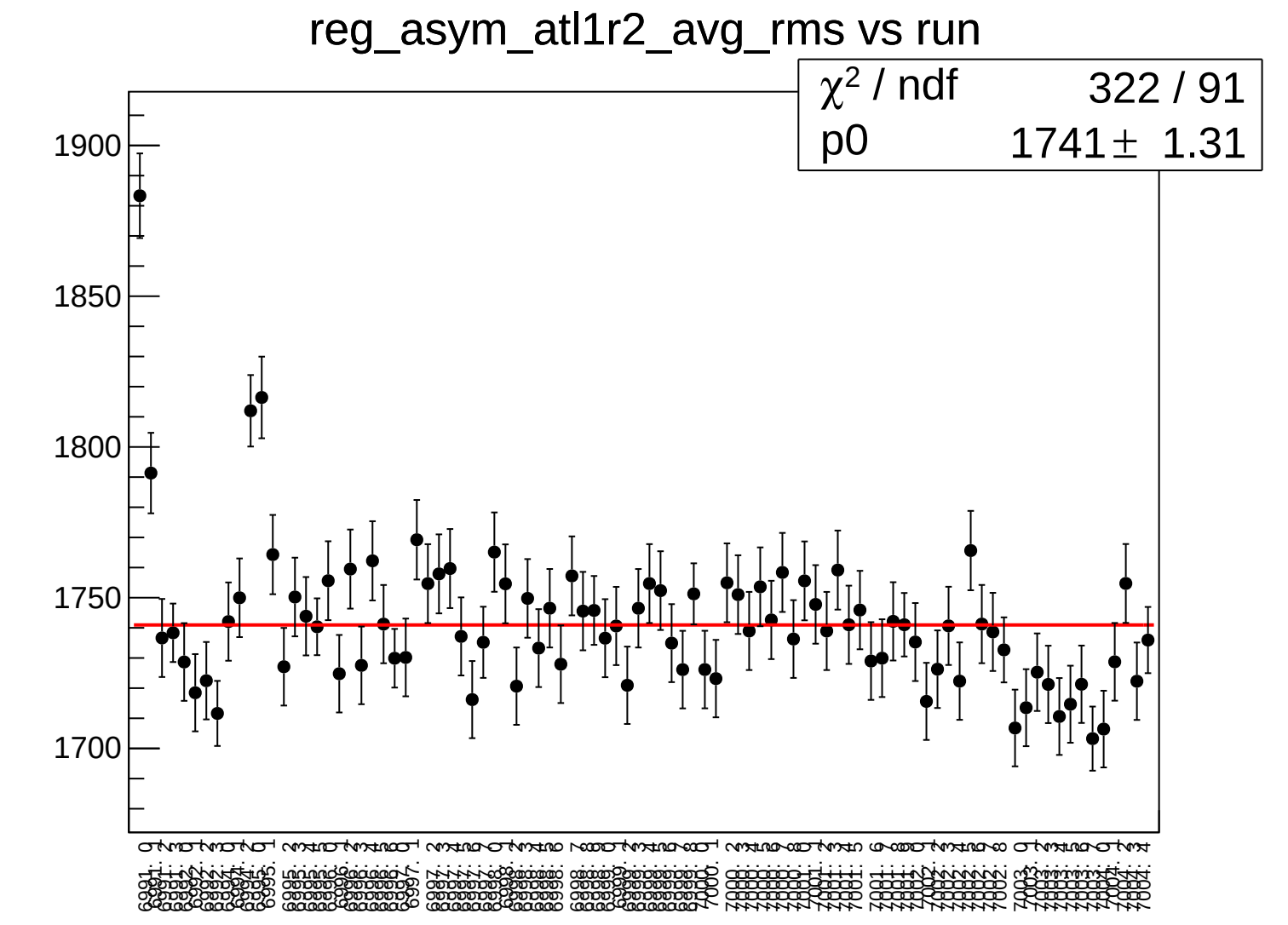

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.883e+04 / 91
p0 95.26 ± 0.07293
160
140
120
100
80
60

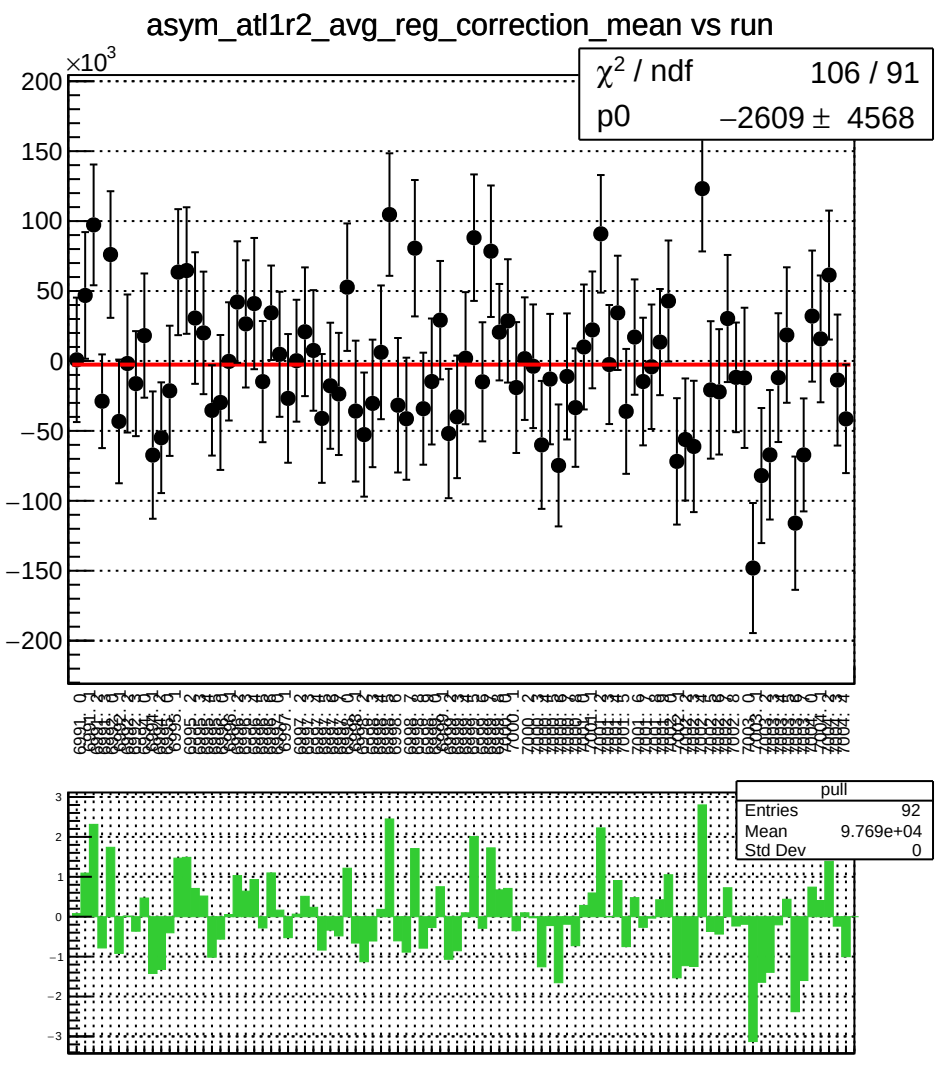

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.83 / 91
p0 2.844e−15 ± 1.482e−14
pull
Entries 92
Mean 8.834
Std Dev 59.07

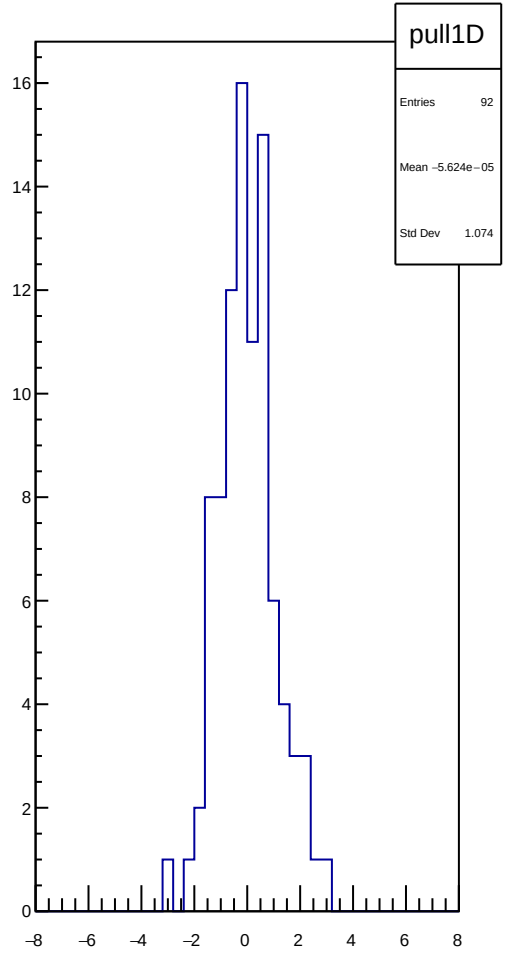

pull1D
Entries 92
Mean −0.01237
Std Dev 0.9018

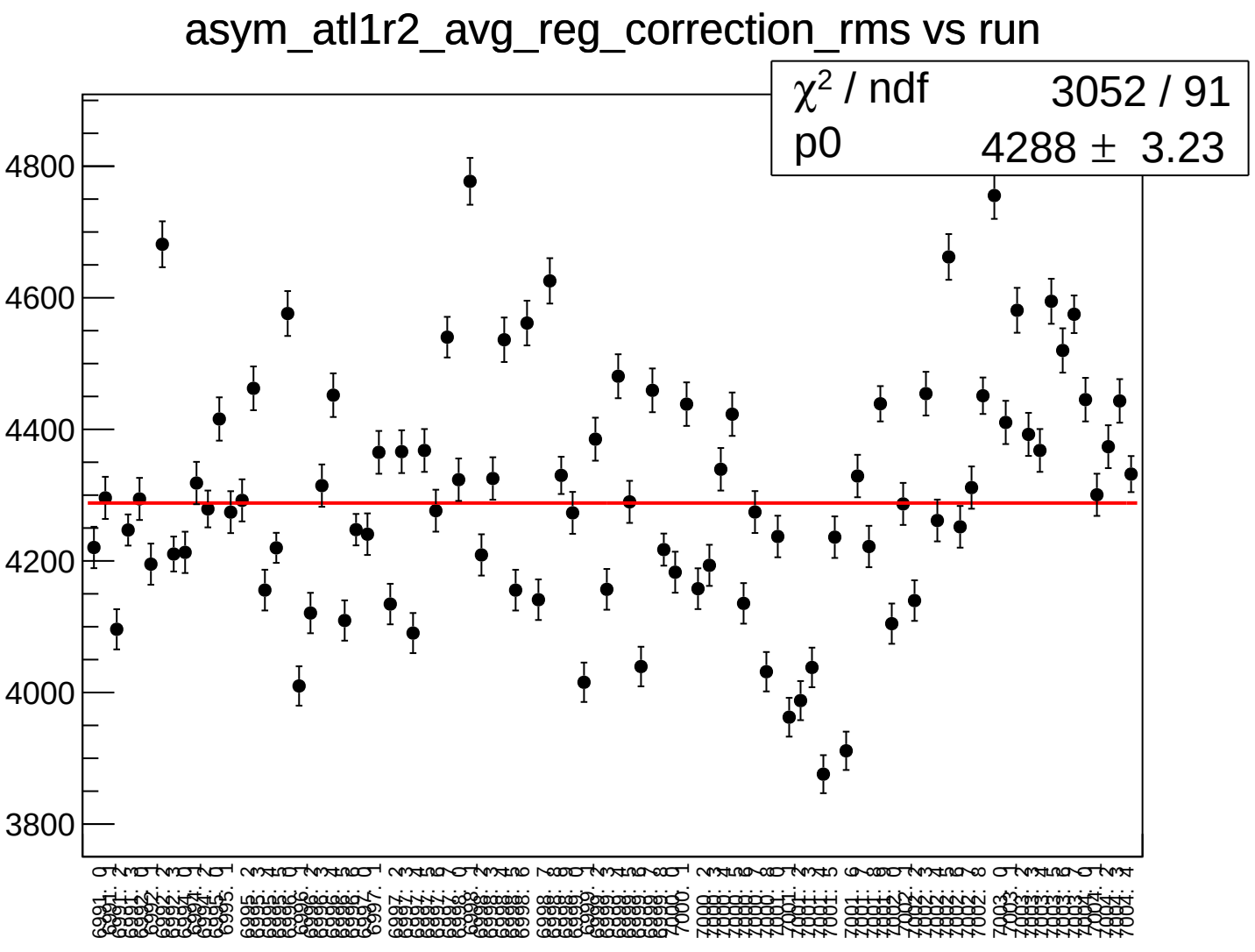

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.859e+05 / 91
p0 1.089e−11 ± 1.048e−14
90
80
70
60
50
40
30
20
10

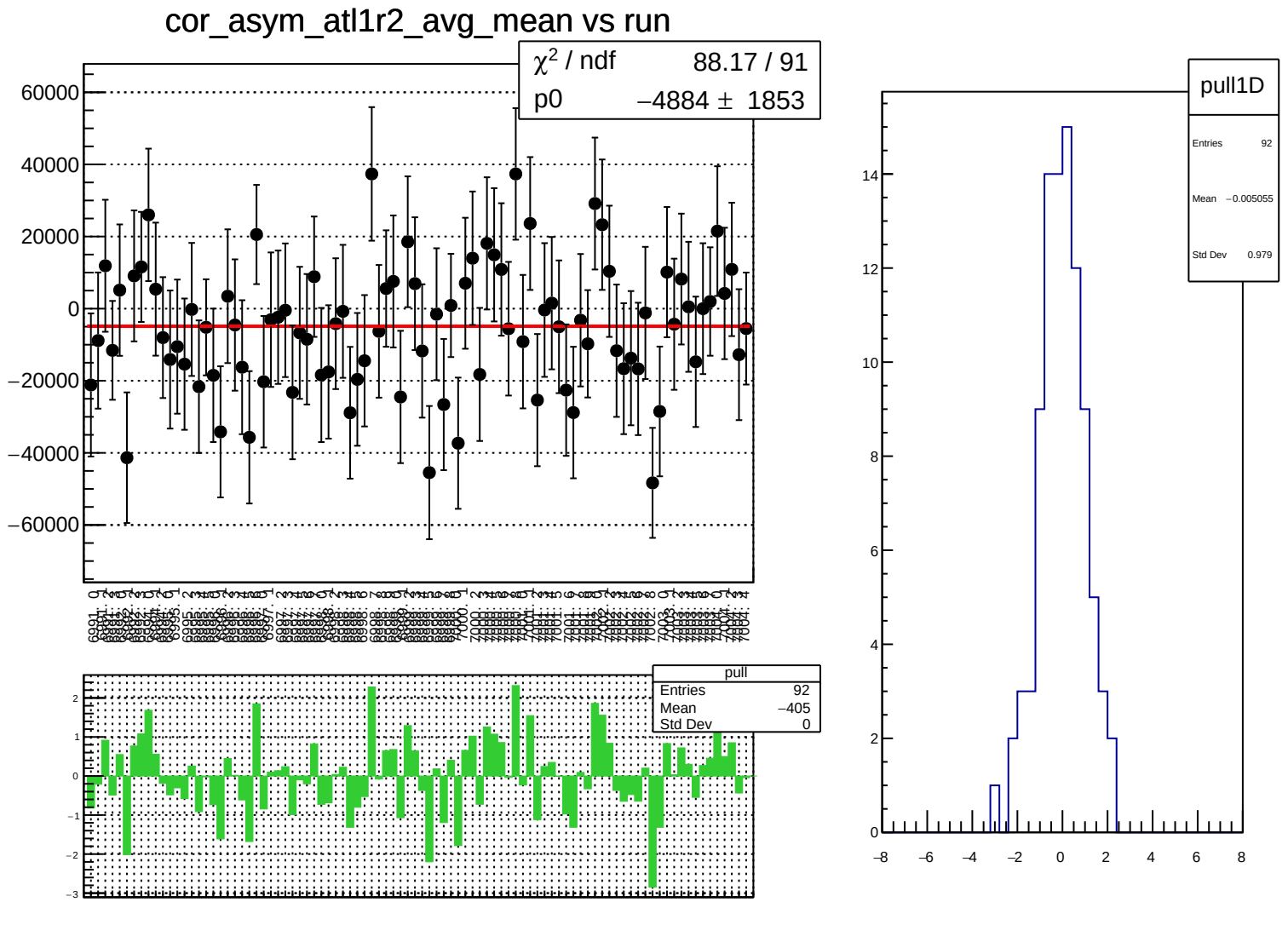

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 88.17 / 91
p0 −4884 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −405.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005053
Std Dev 0.979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

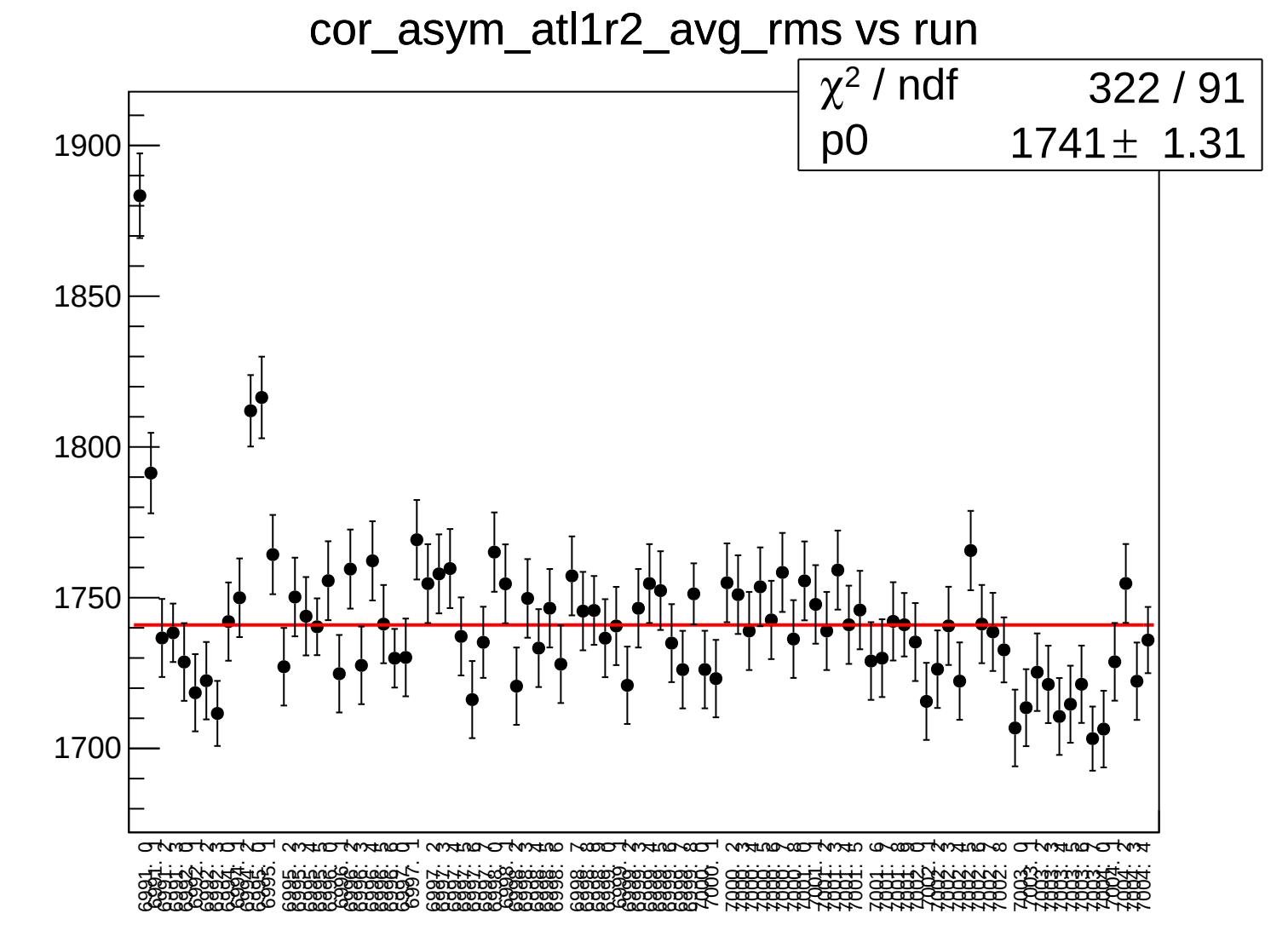

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 322 / 91
p0 1741 ± 1.31
1900
1850
1800
1750
1700

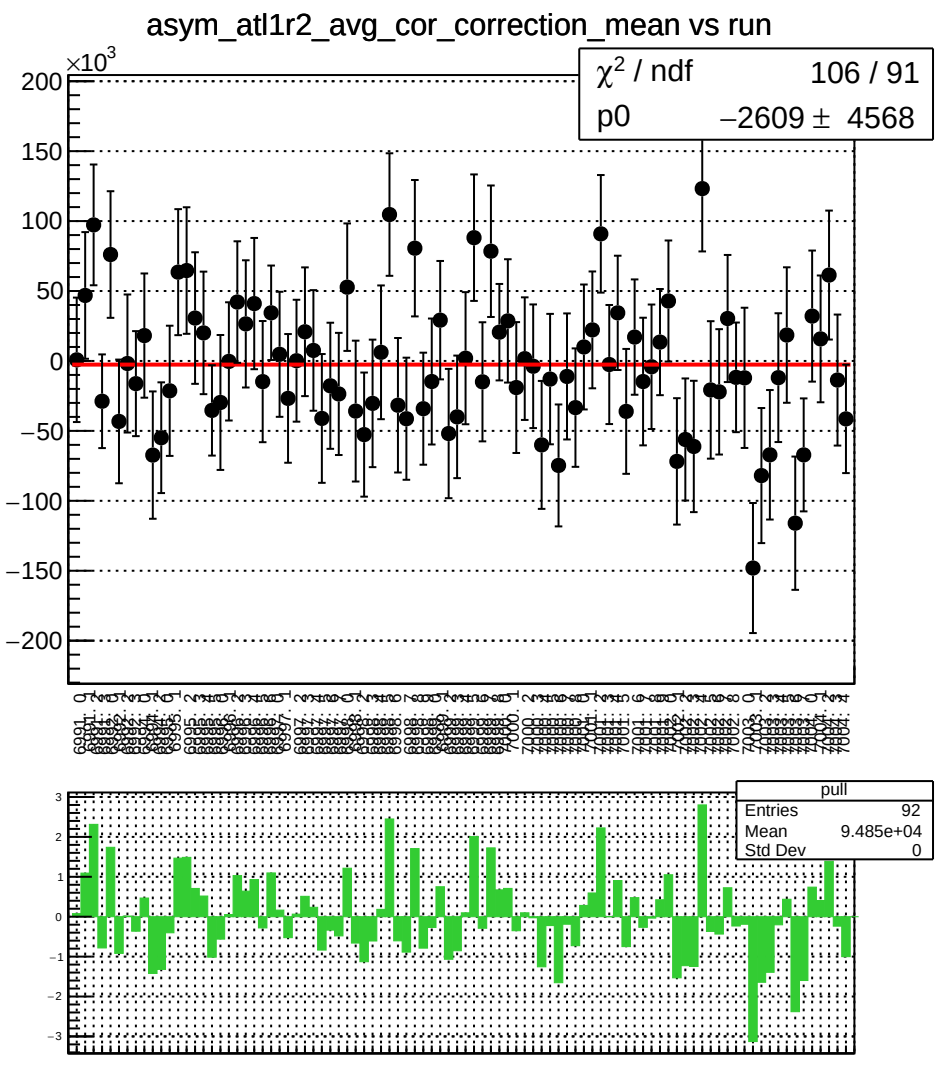

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 106 / 91
p0 −2609 ± 4568
pull
Entries 92
Mean 9.769e+04
Std Dev 0

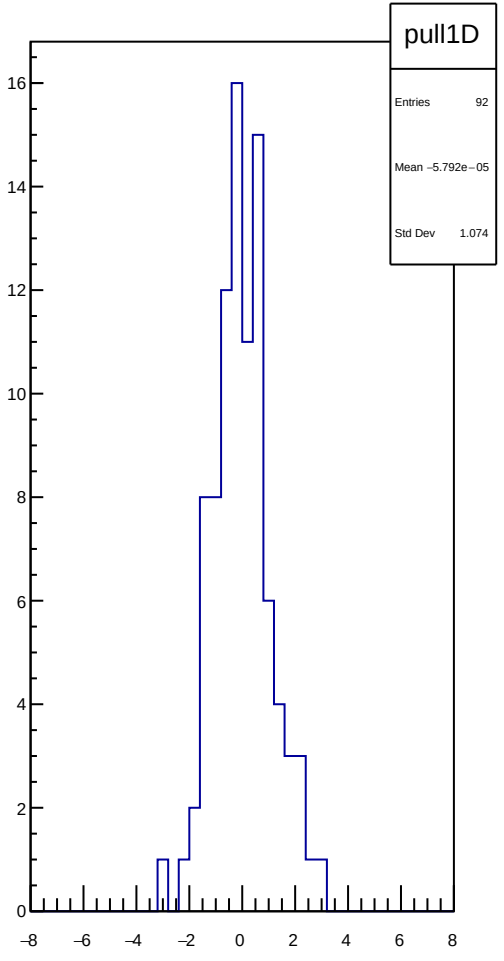

pull1D
Entries 92
Mean −5.624e−05
Std Dev 1.074

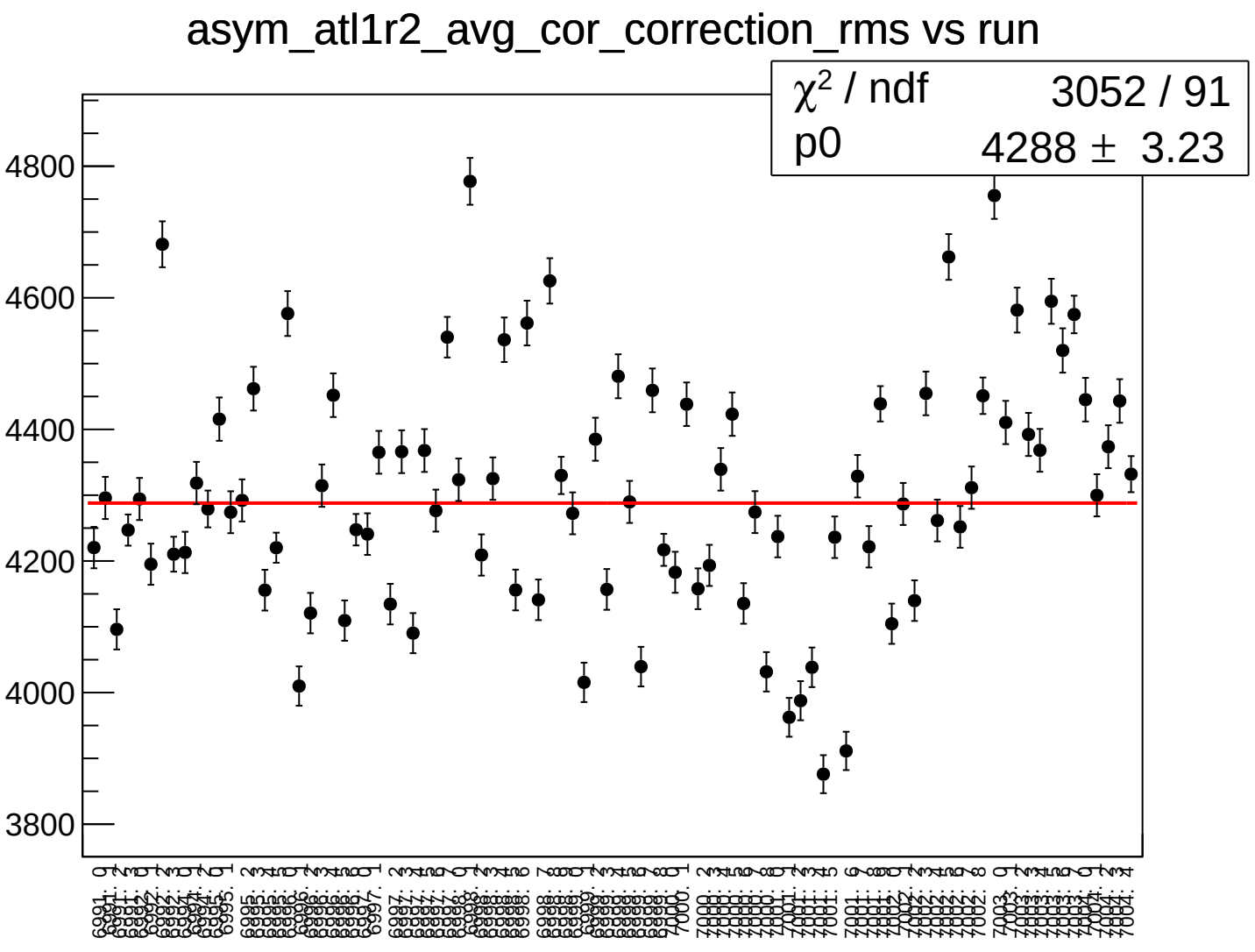

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3052 / 91
p0 4288 ± 3.23
4800
4600
4400
4200
4000
3800

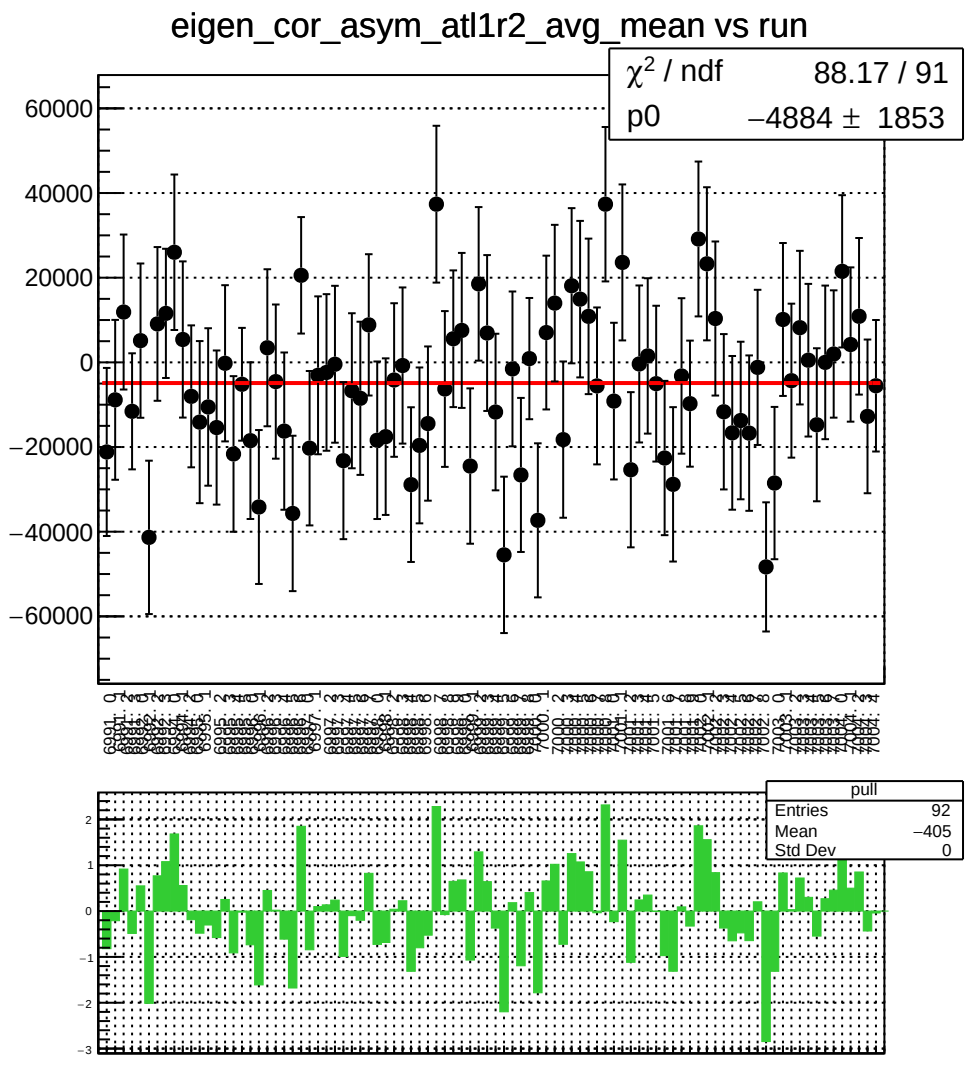

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.17 / 91
p0 −4884 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −405
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005055
Std Dev 0.979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

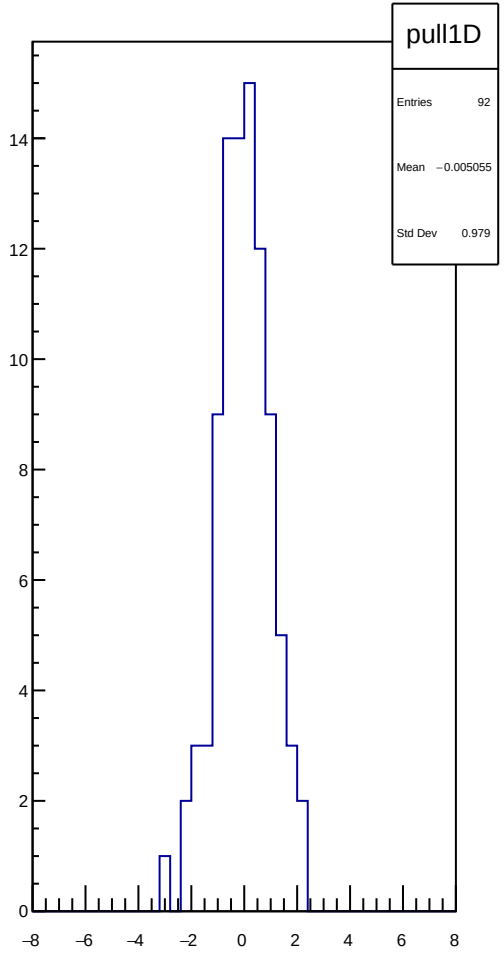

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 322 / 91
p0 1741 ± 1.31
1900
1850
1800
1750
1700

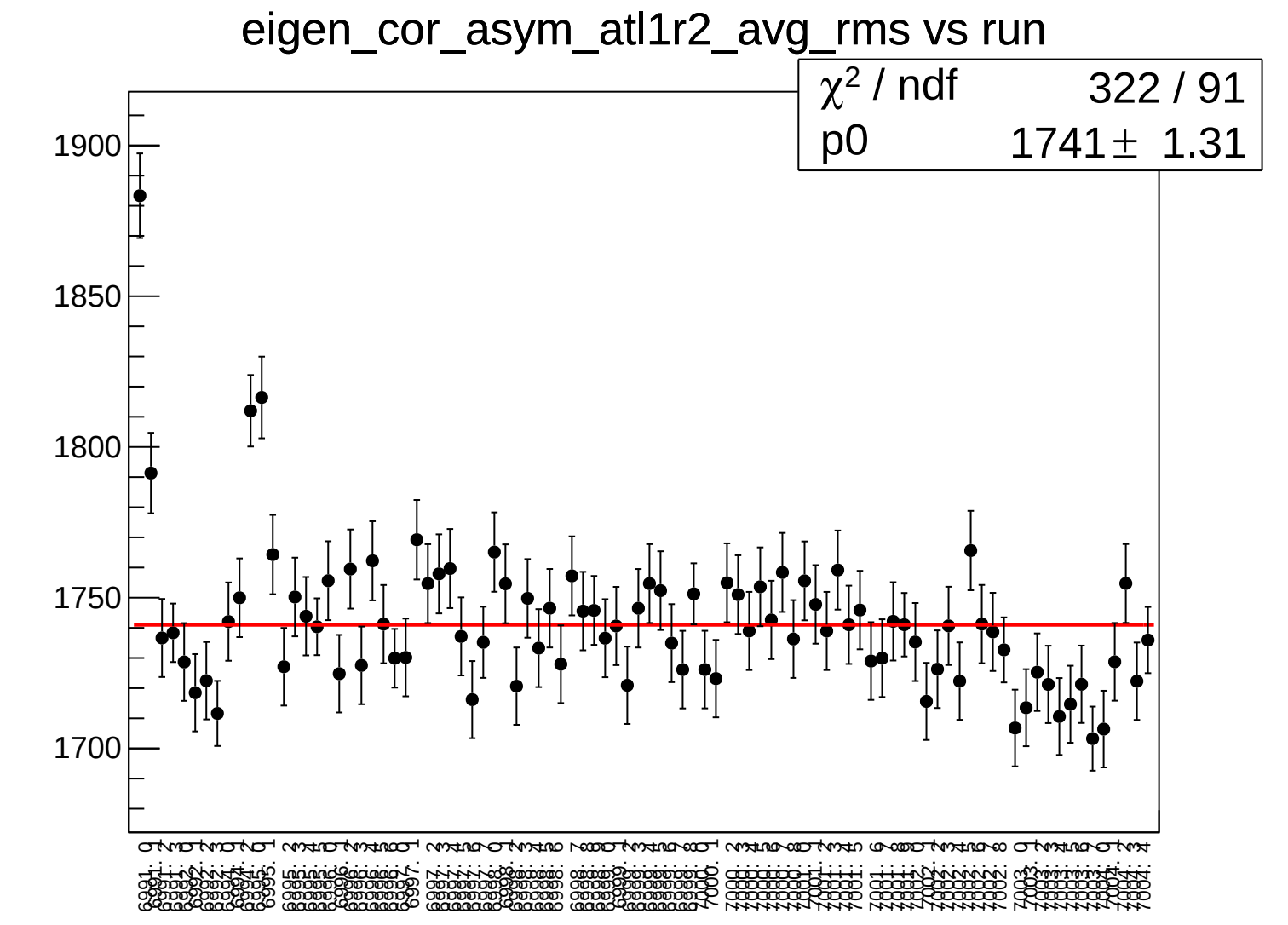

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 106 / 91
p0 −2609 ± 4568
pull
Entries 92
Mean 9.485e+04
Std Dev 0

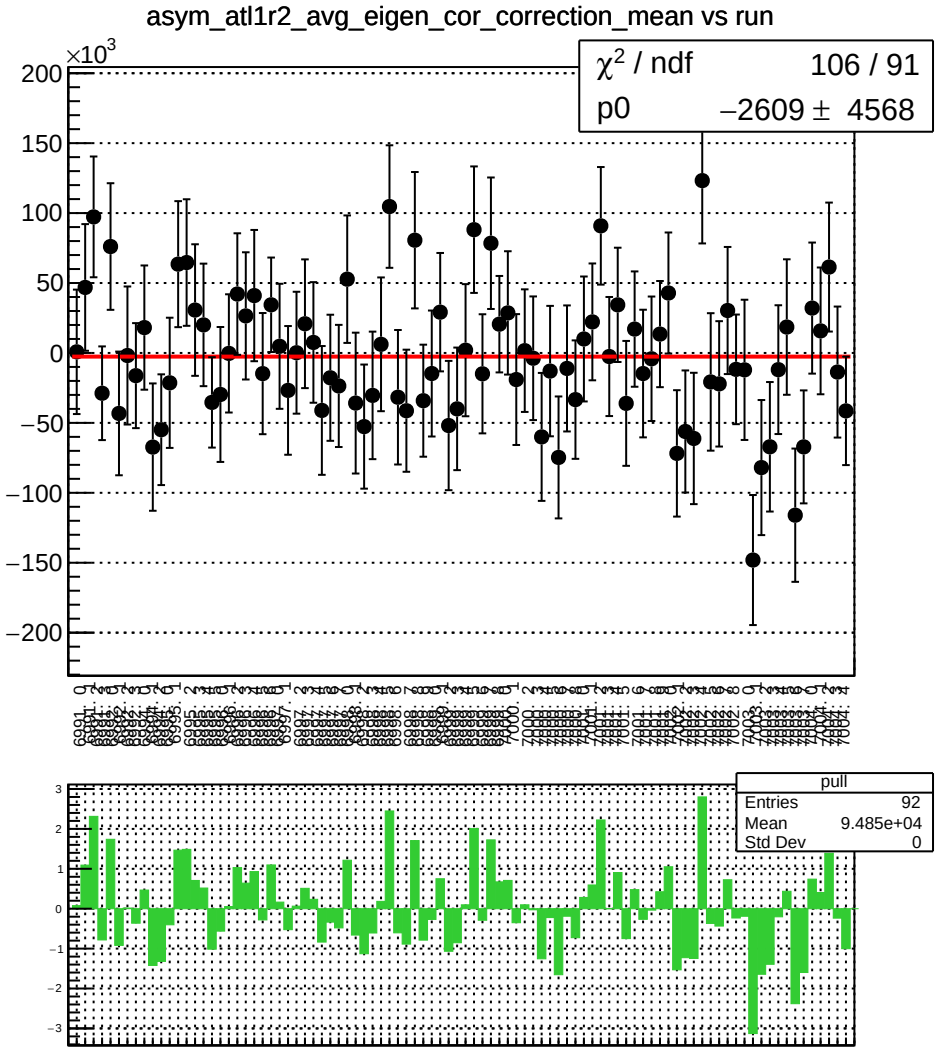

pull1D
Entries 92
Mean −5.792e−05
Std Dev 1.074

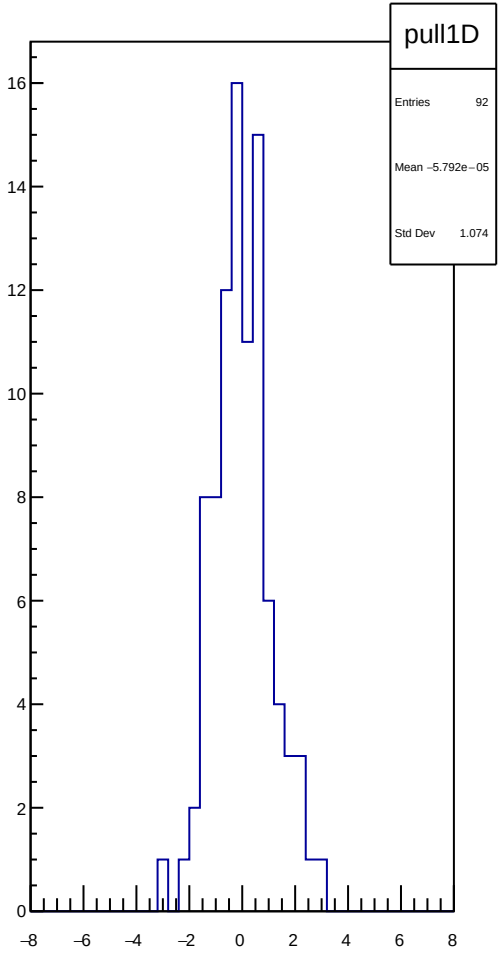

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 3052 / 91
p0 4288 ± 3.23
4800
4600
4400
4200
4000
3800

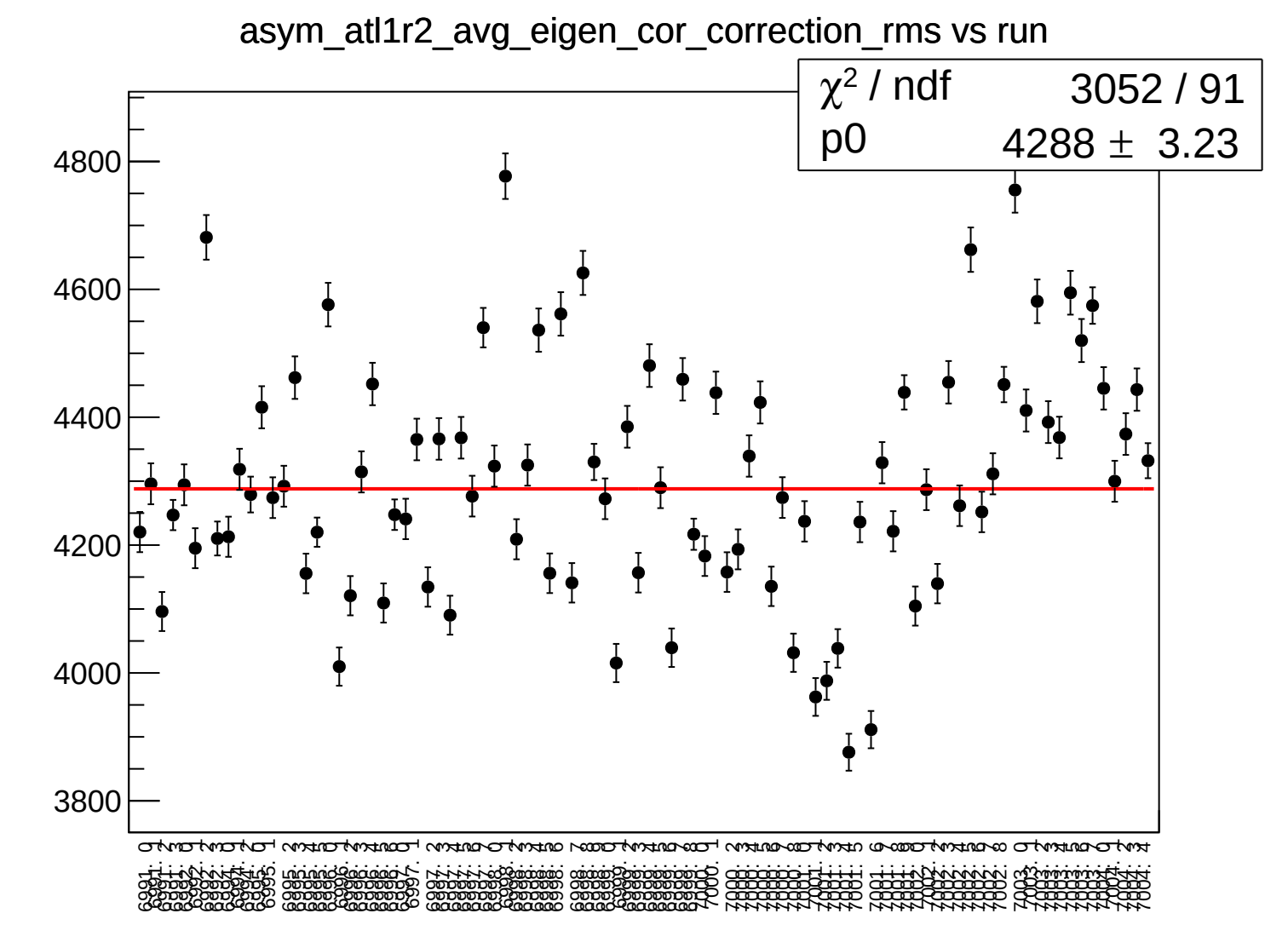

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.17 / 91
p0 −4884 ± 1853
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −405
Std Dev 0
2
1
0
−1
−2
−3

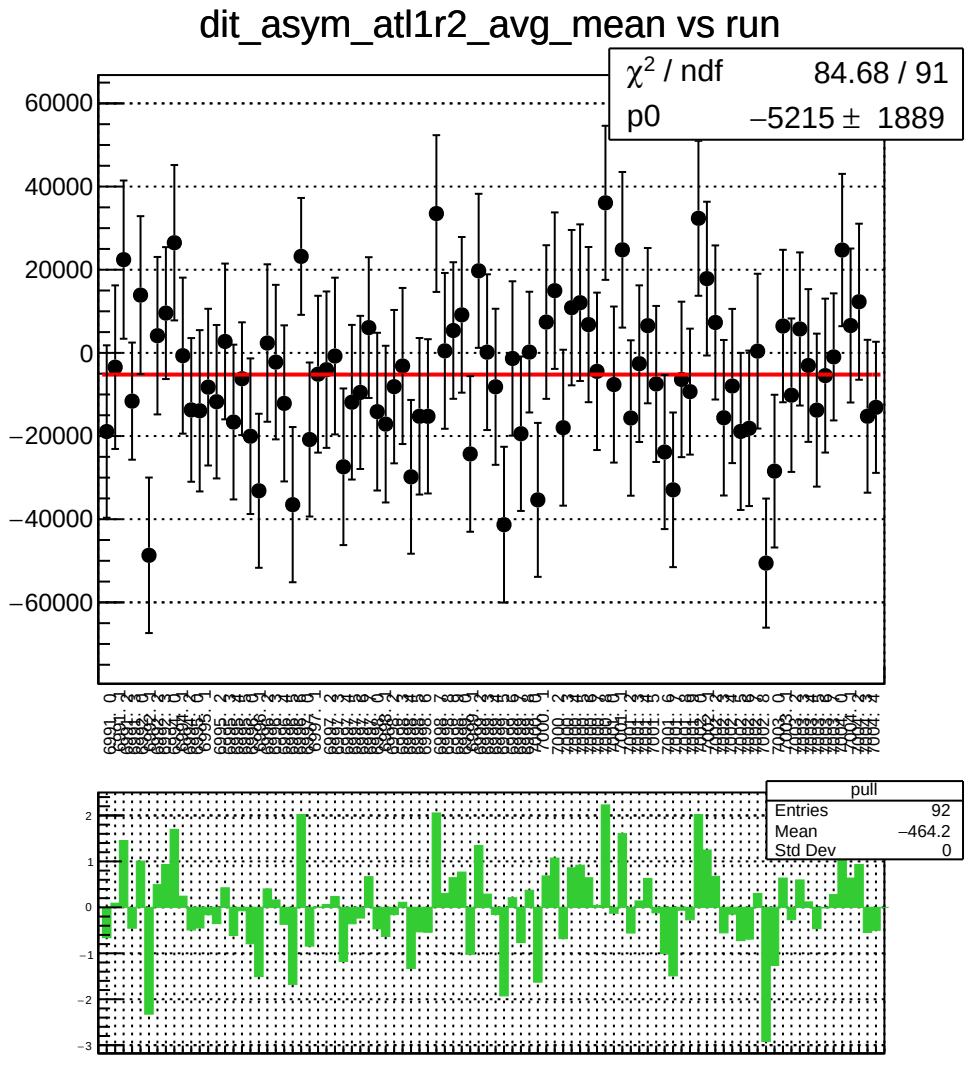

pull1D
Entries 92
Mean −0.005055
Std Dev 0.979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

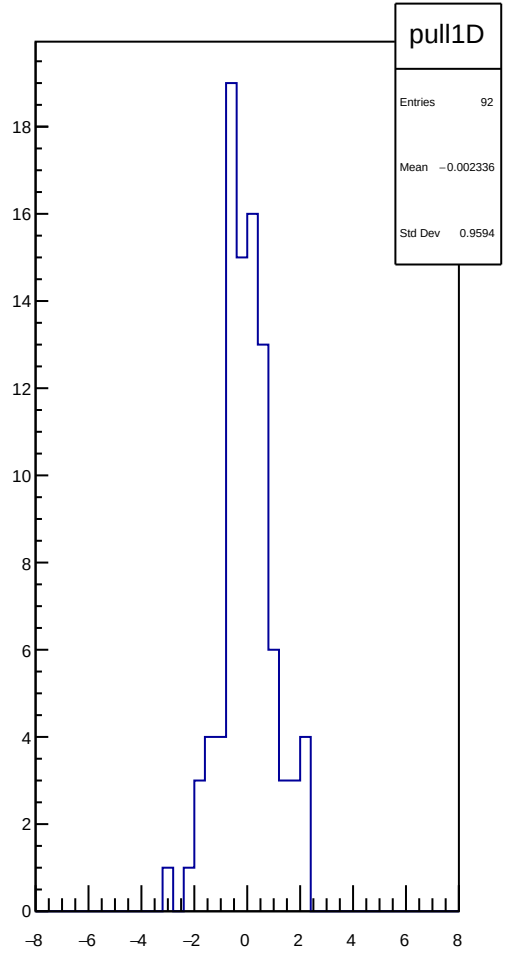

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 322 / 91
p0 1741 ± 1.31
1900
1850
1800
1750
1700

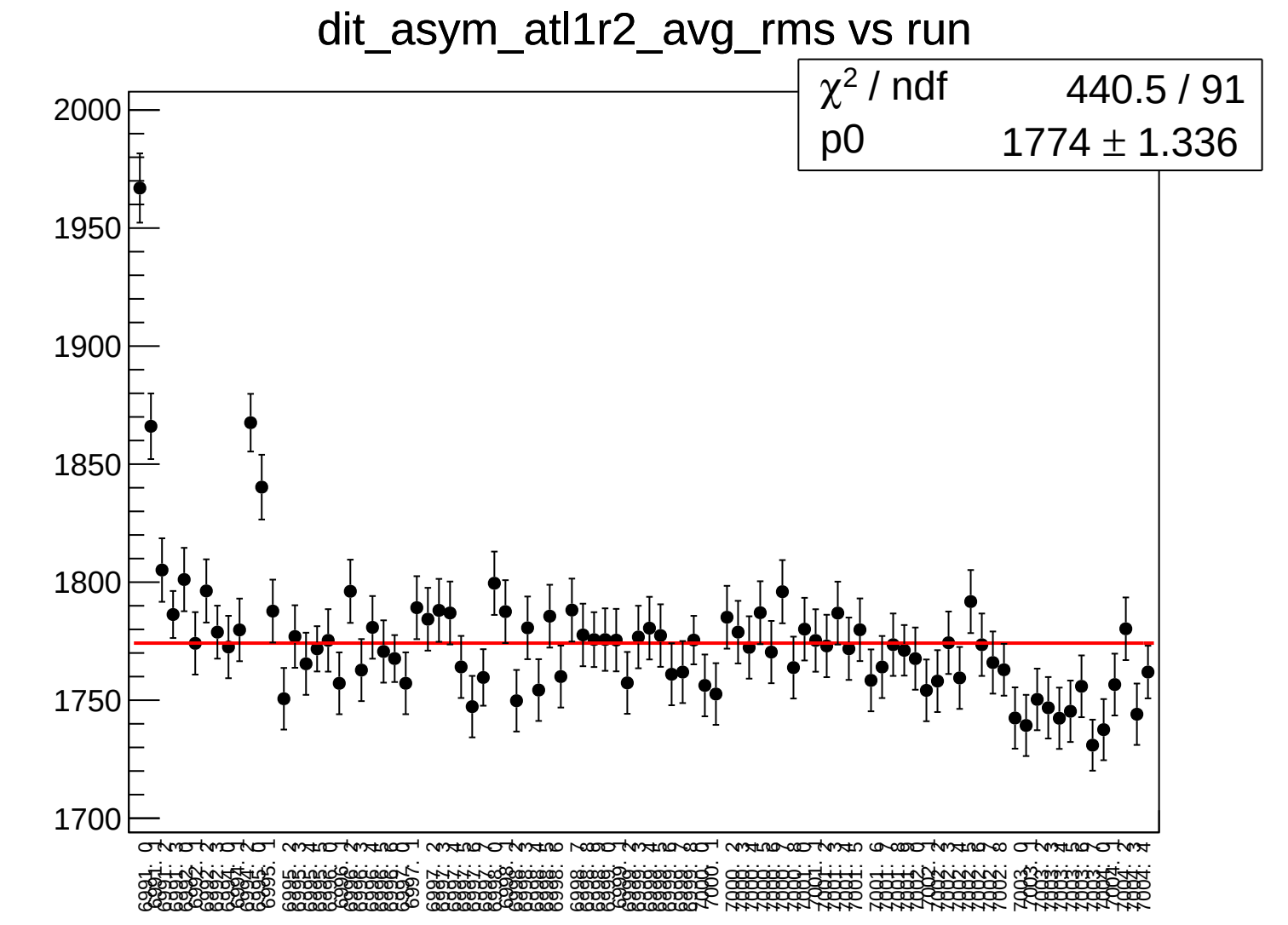

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106 / 91
p0 −2609 ± 4568
pull
Entries 92
Mean 9.485e+04
Std Dev 0

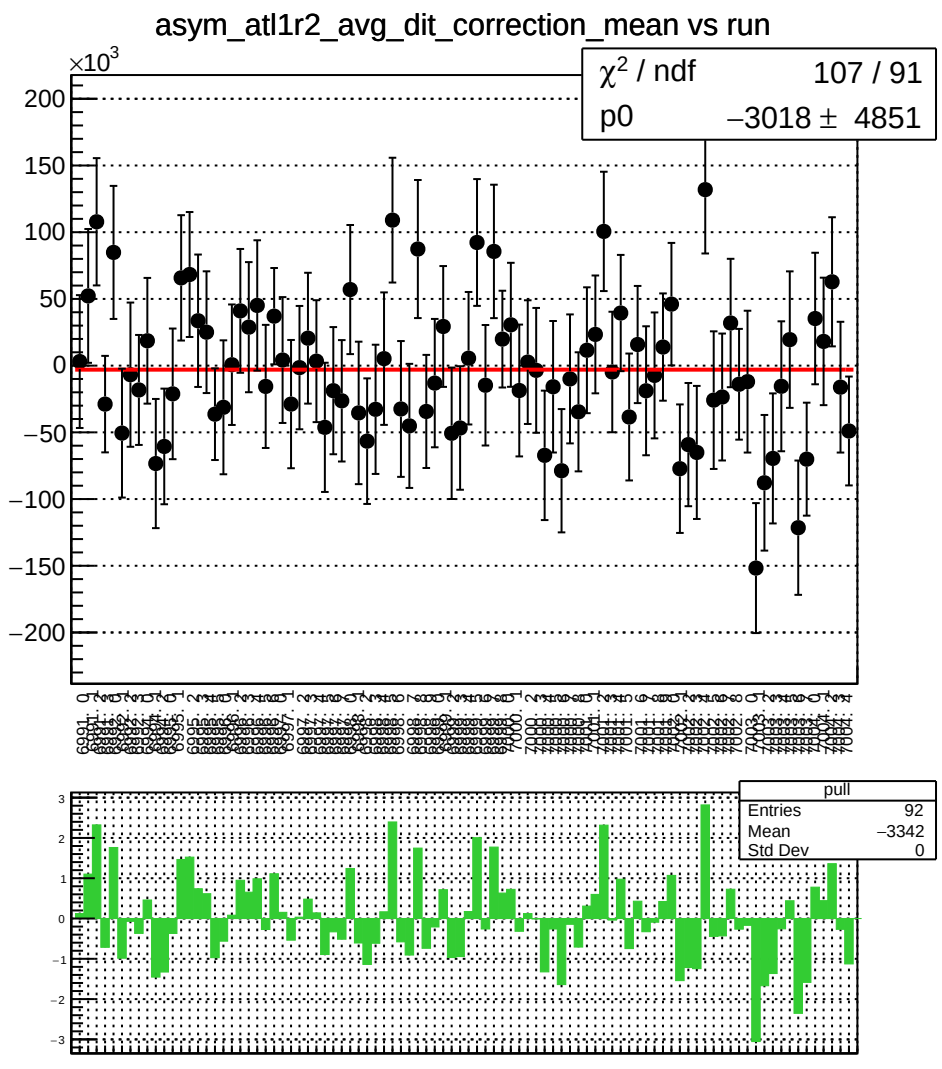

pull1D
Entries 92
Mean −5.792e−05
Std Dev 1.074

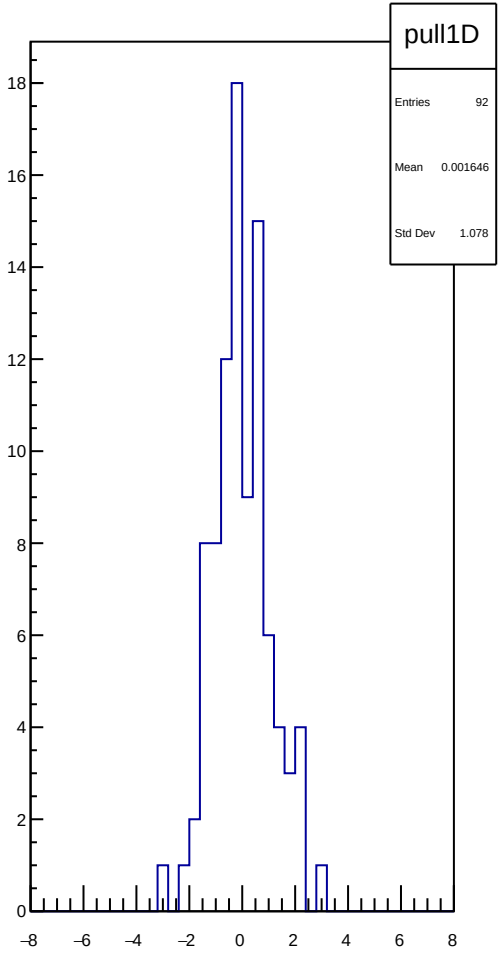

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3052 / 91
p0 4288 ± 3.23
4800
4600
4400
4200
4000
3800

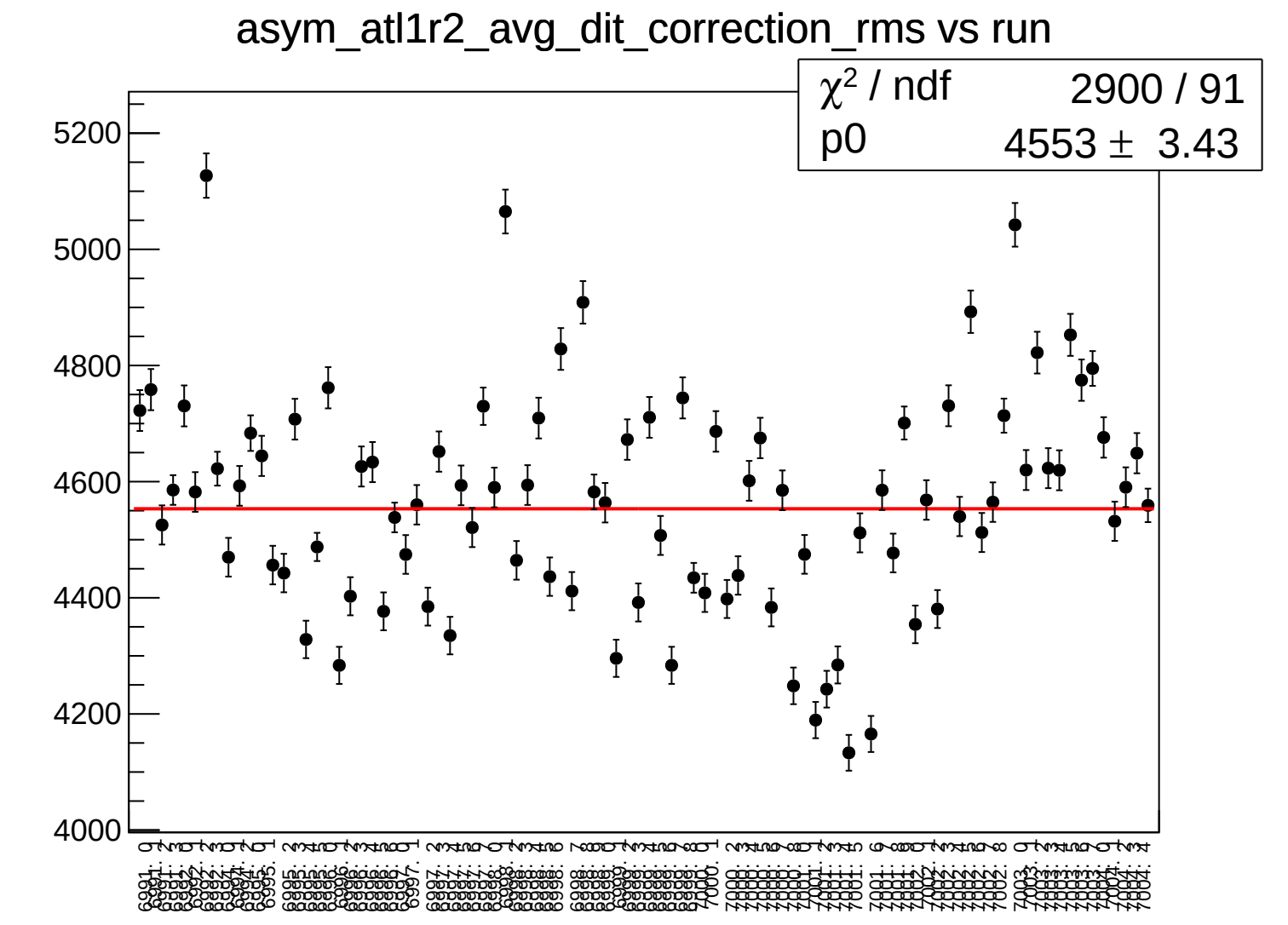

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 84.68 / 91
p0 −5215 ± 1889
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −464.2
Std Dev 0
2
1
0
−1
−2
−3

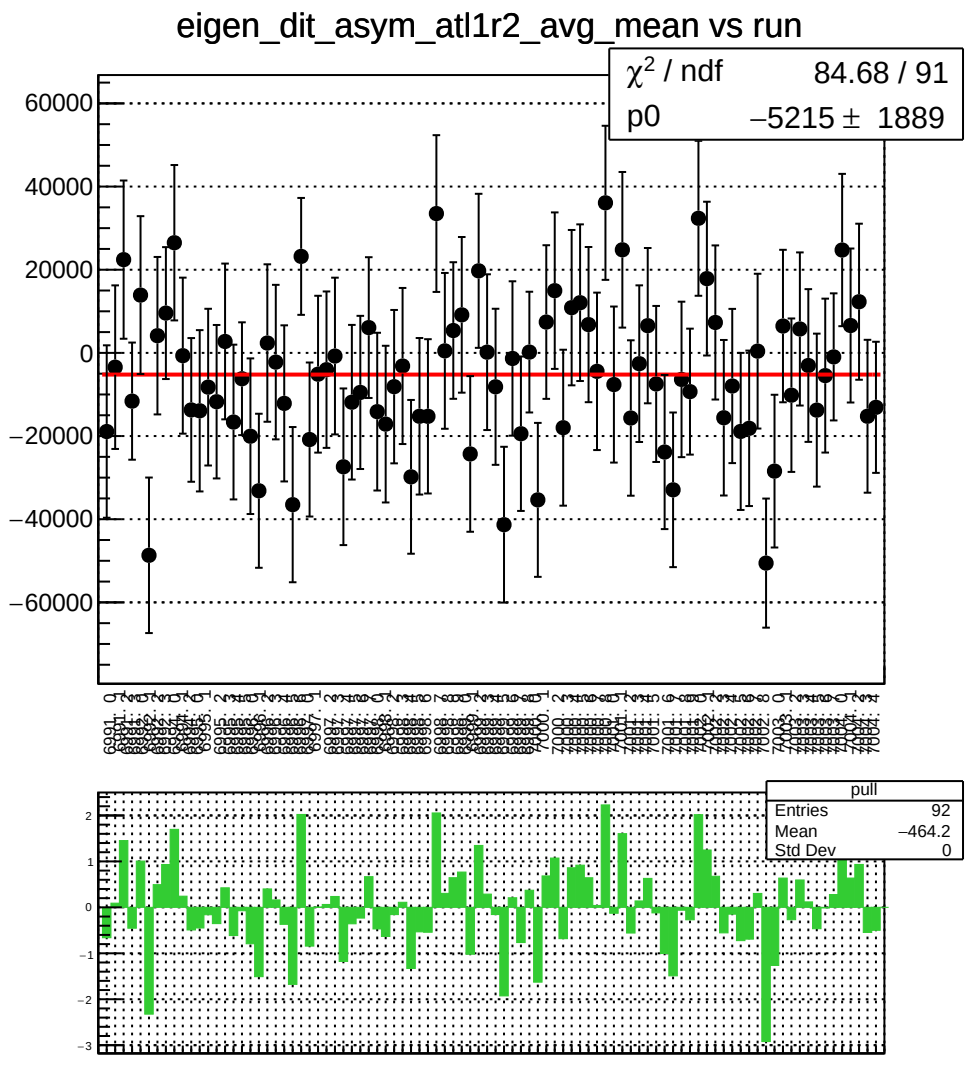

pull1D
Entries 92
Mean −0.002336
Std Dev 0.9594
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

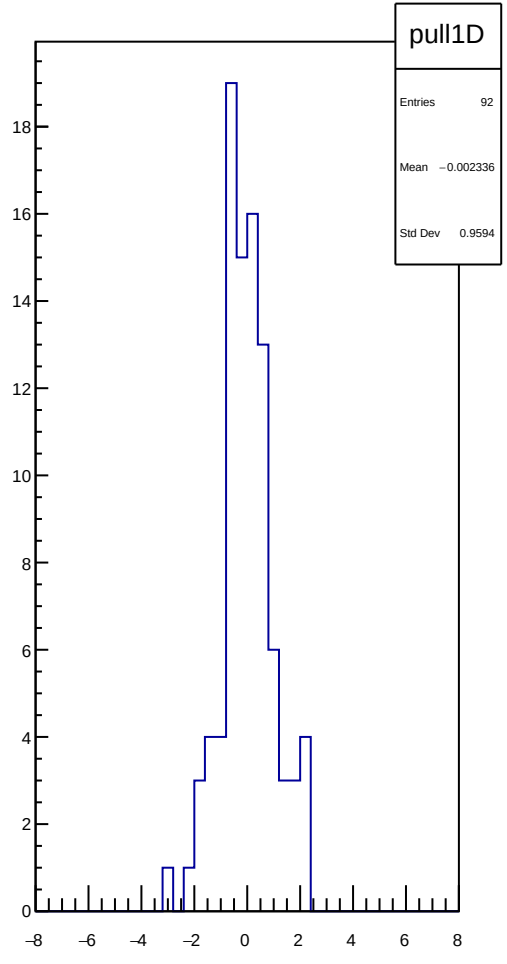

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 440.5 / 91
p0 1774 ± 1.336
2000
1950
1900
1850
1800
1750
1700

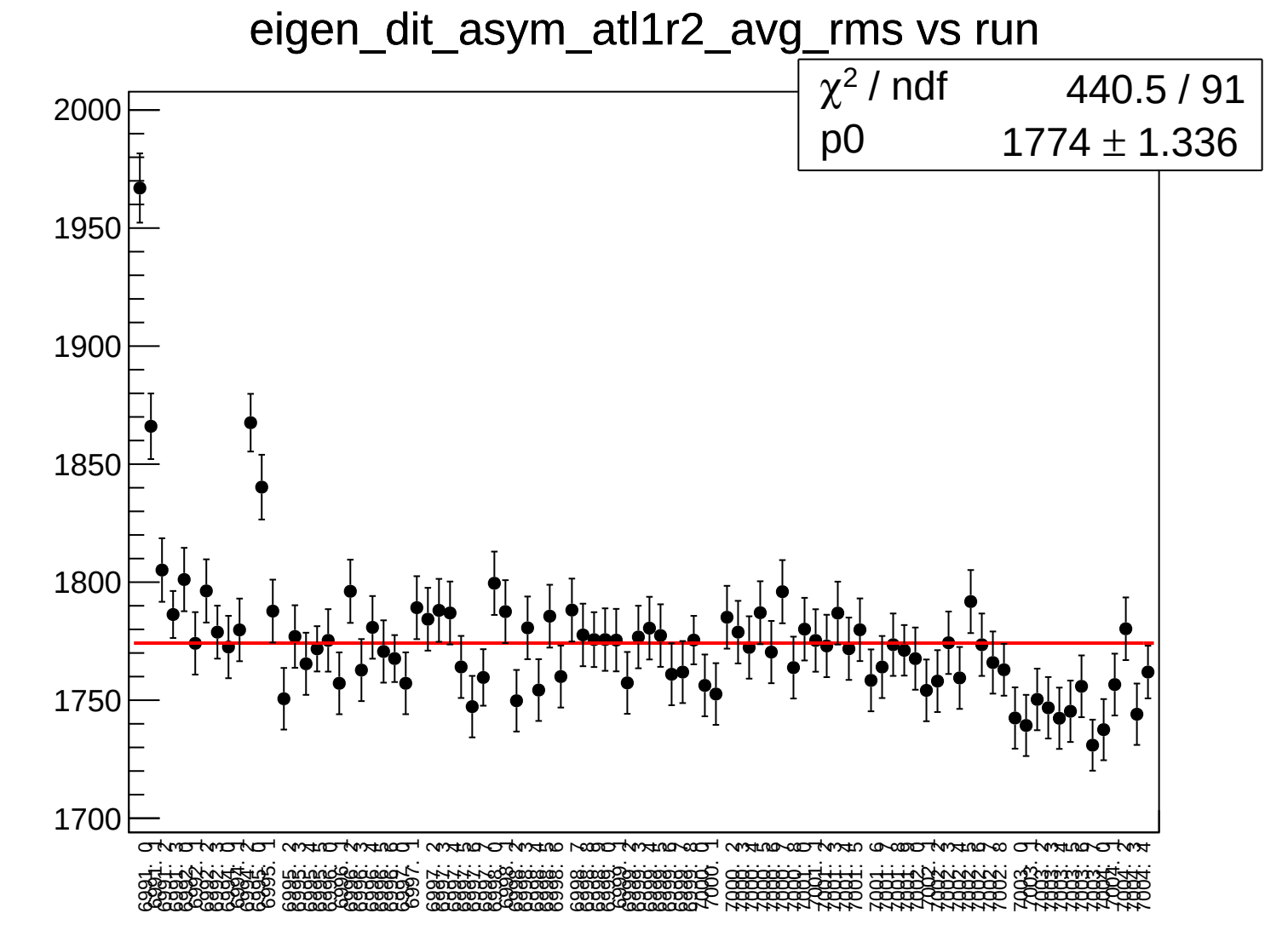

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 91
p0 −3018 ± 4851
pull
Entries 92
Mean −3342
Std Dev 0

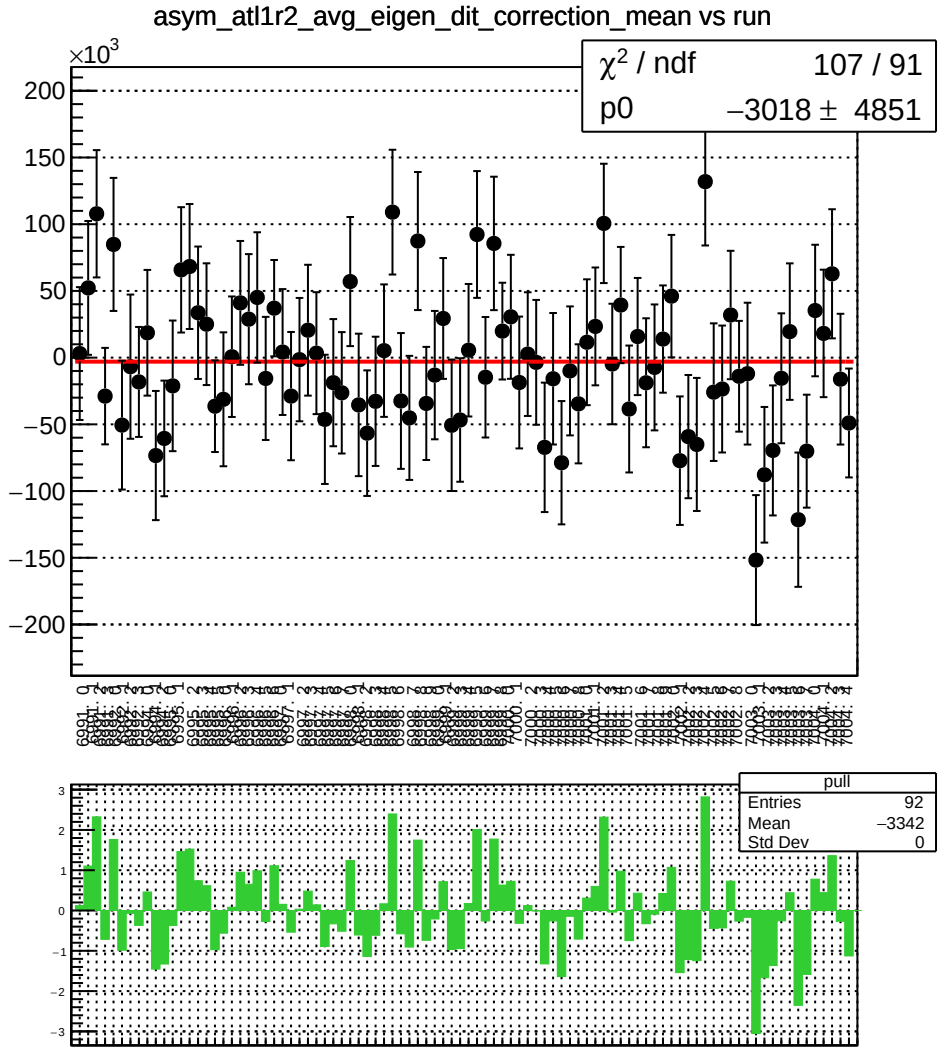

pull1D
Entries 92
Mean 0.001646
Std Dev 1.078

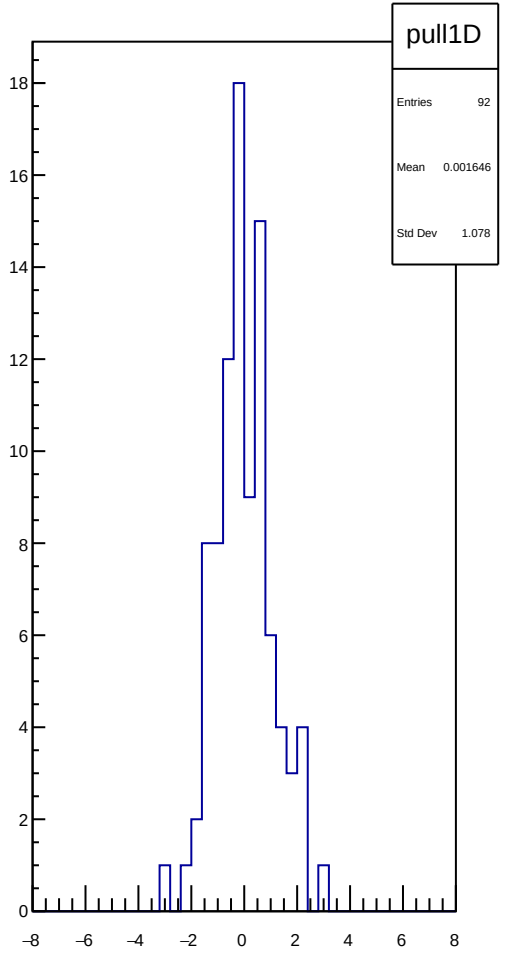

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 2900 / 91
p0 4553 ± 3.43
5200
5000
4800
4600
4400
4200
4000

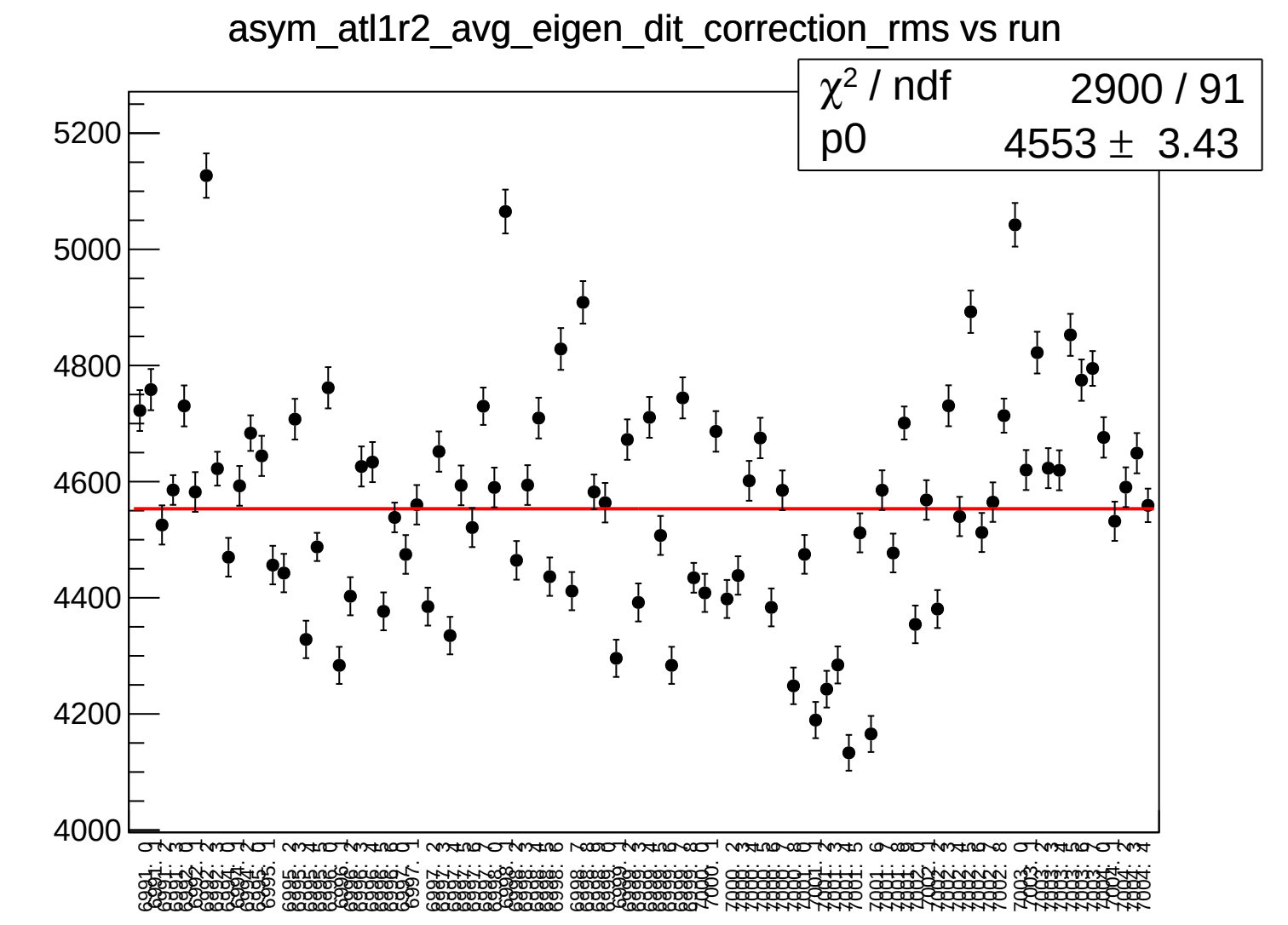

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 84.68 / 91
p0 −5215 ± 1889
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −464.2
Std Dev 0
2
1
0
−1
−2
−3

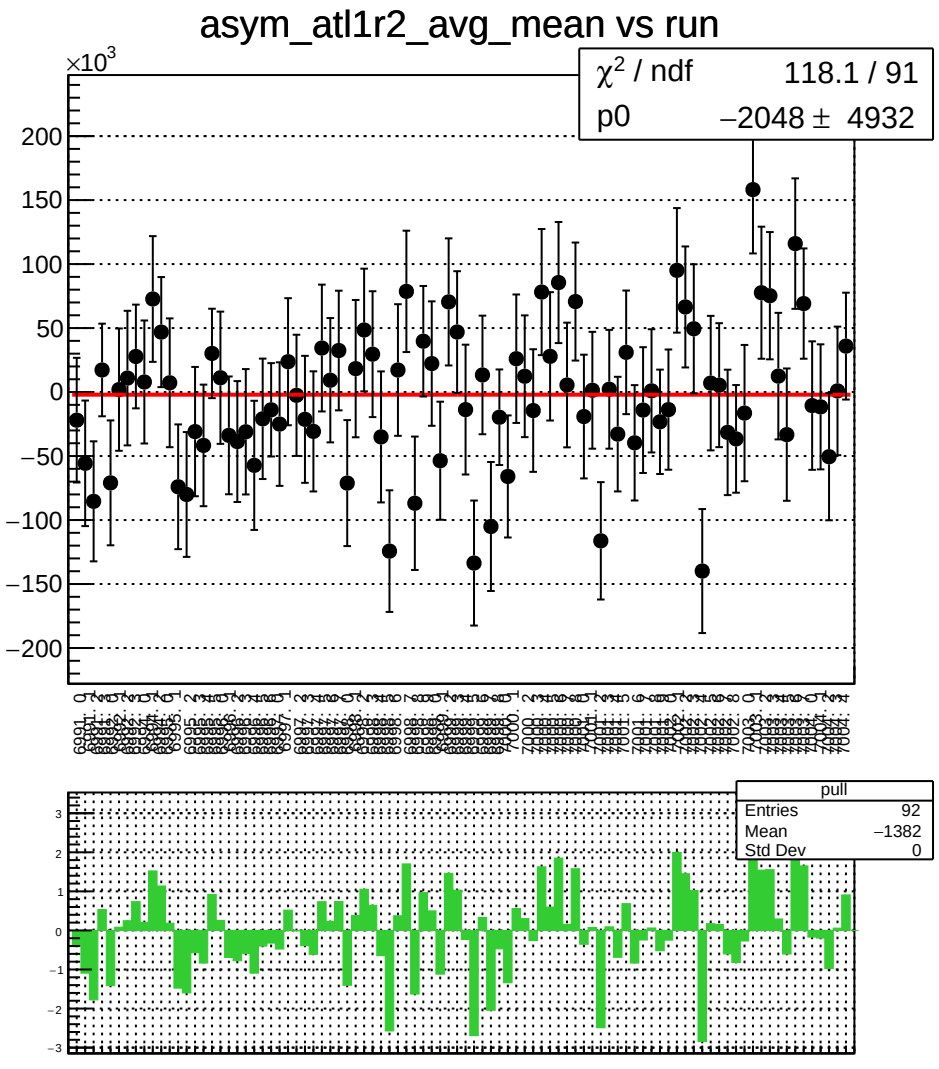

pull1D
Entries 92
Mean −0.002336
Std Dev 0.9594
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

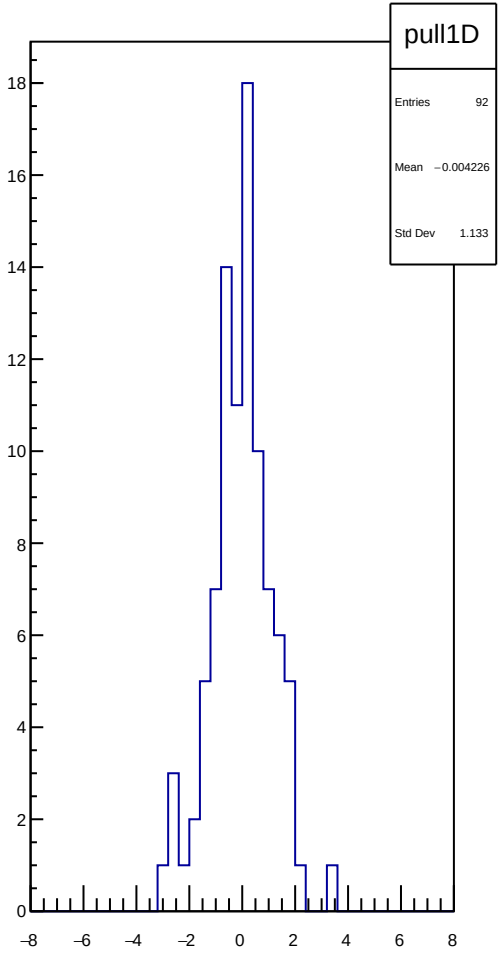

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 440.5 / 91
p0 1774 ± 1.336
2000
1950
1900
1850
1800
1750
1700

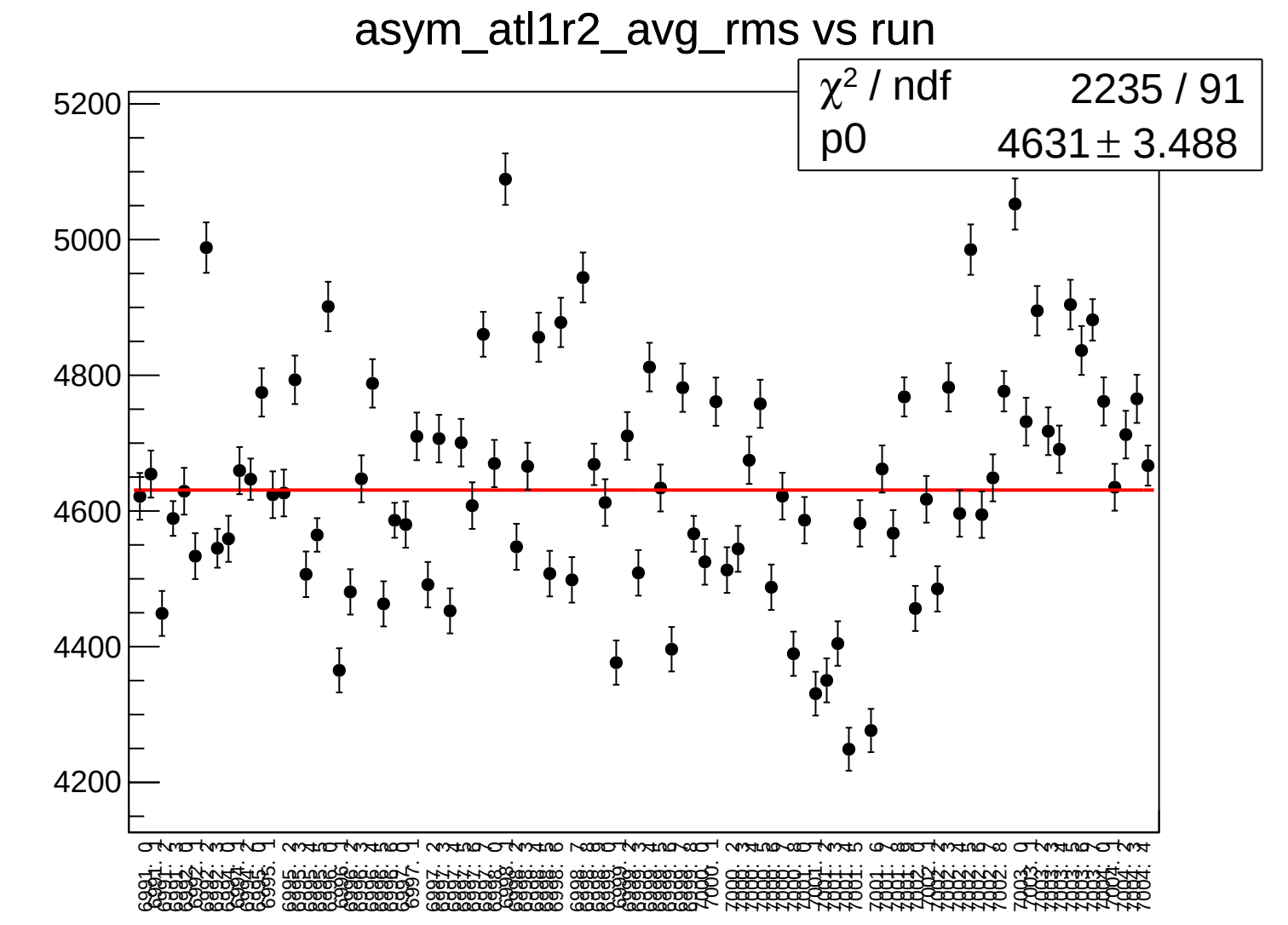

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107 / 91
p0 −3018 ± 4851
pull
Entries 92
Mean −3342
Std Dev 0

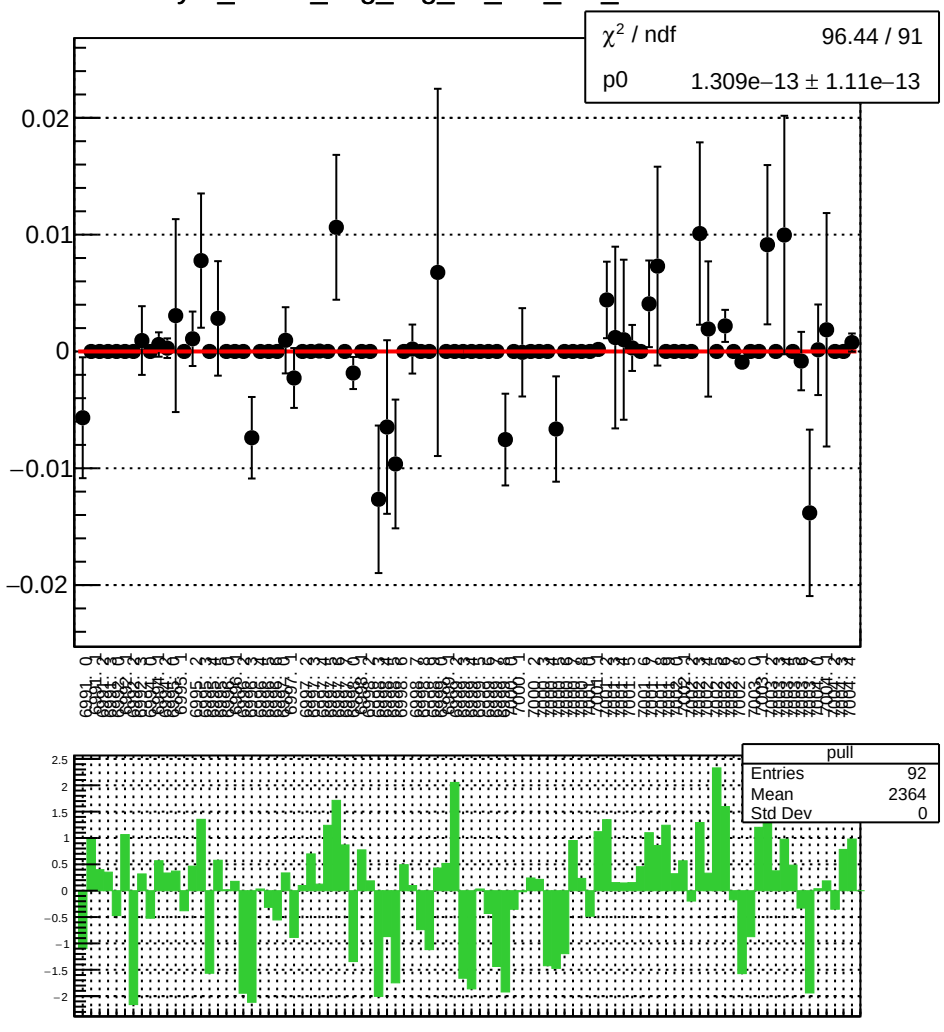

pull1D
Entries 92
Mean 0.001646
Std Dev 1.078

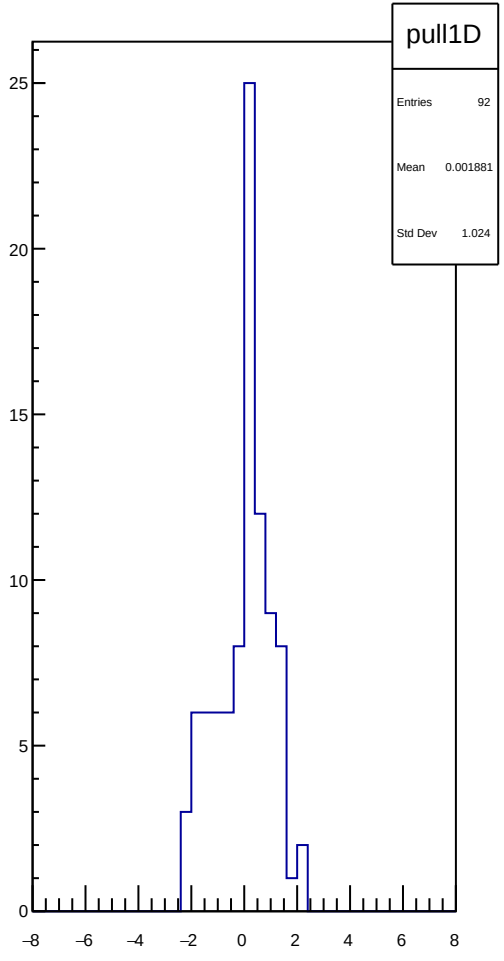

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2900 / 91
p0 4553 ± 3.43
5200
5000
4800
4600
4400
4200
4000

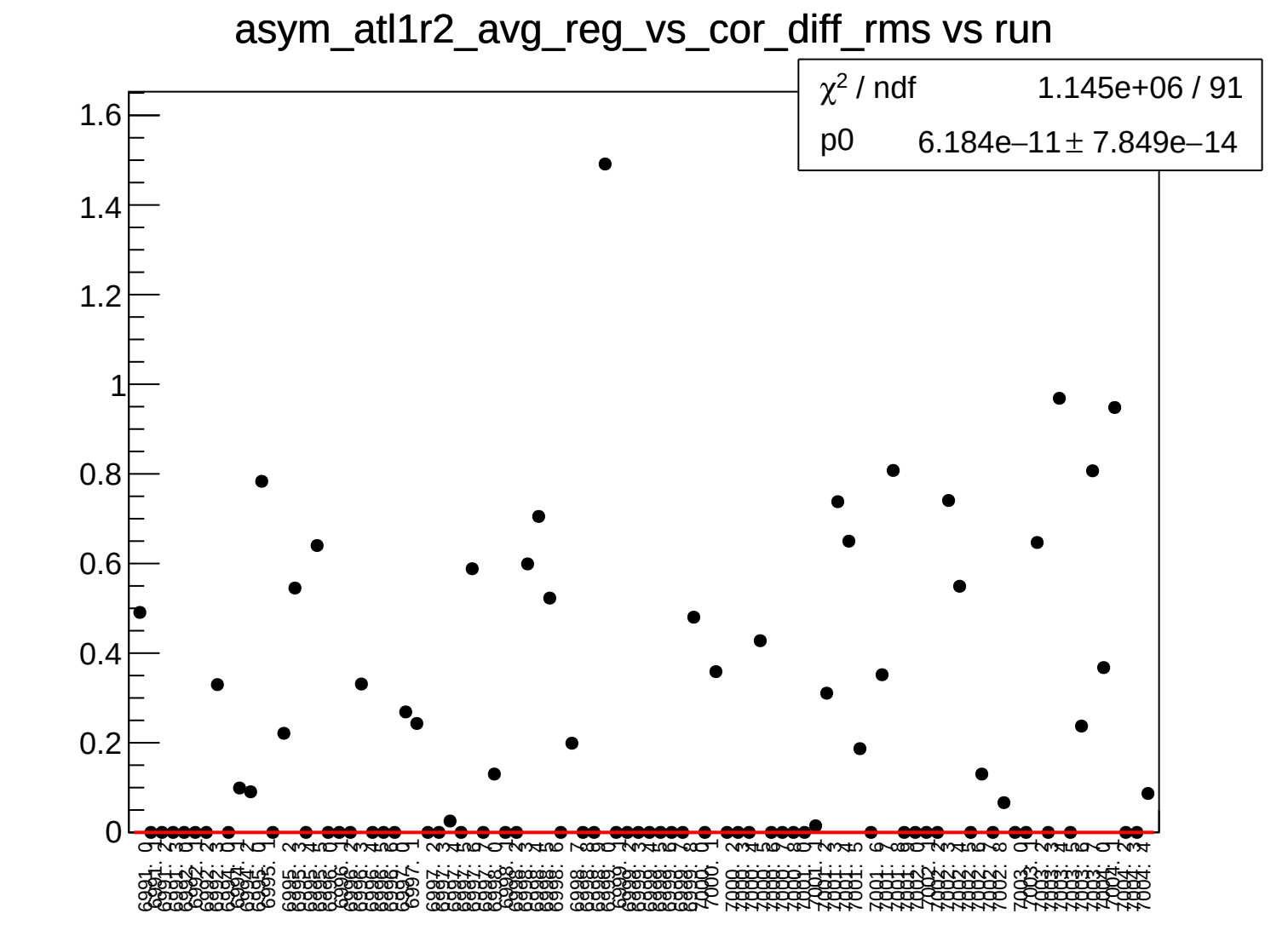

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 118.1 / 91
p0 −2048 ± 4932
pull
Entries 92
Mean −1382
Std Dev 0

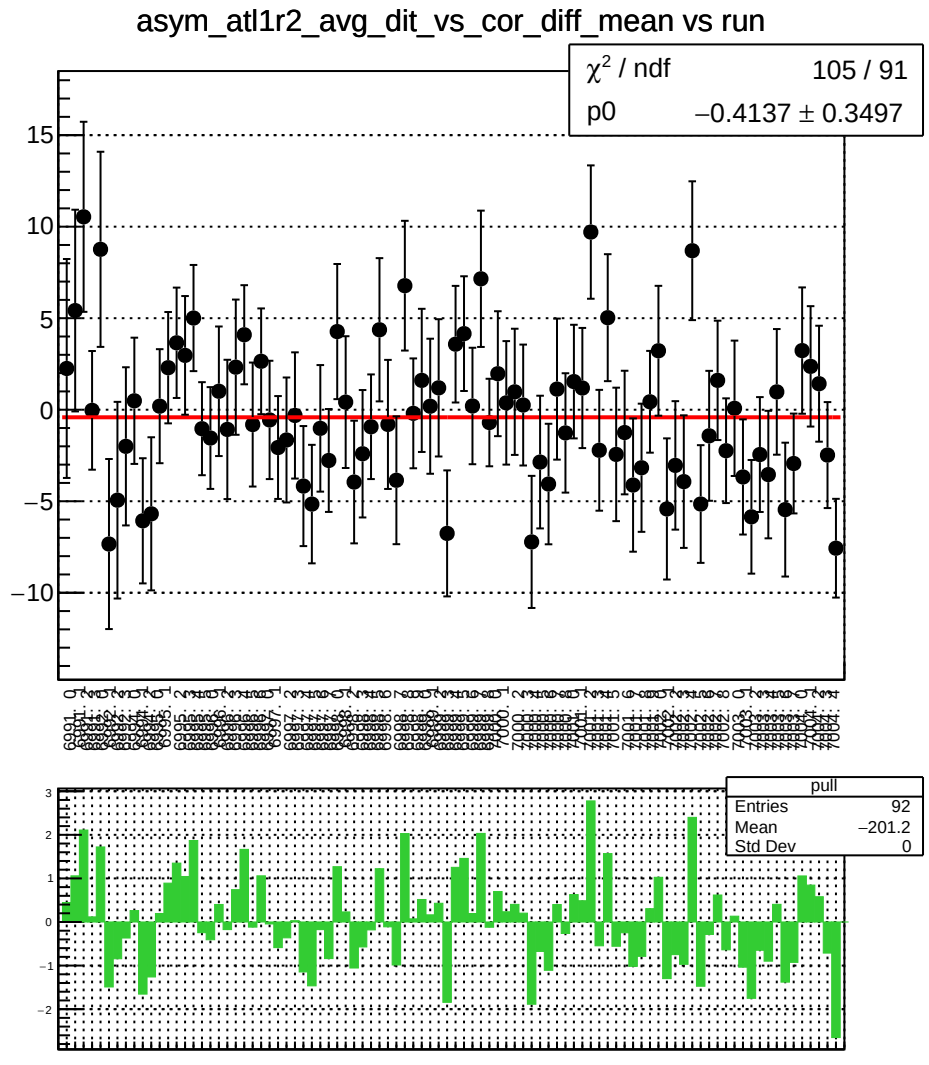

pull1D
Entries 92
Mean −0.004226
Std Dev 1.133

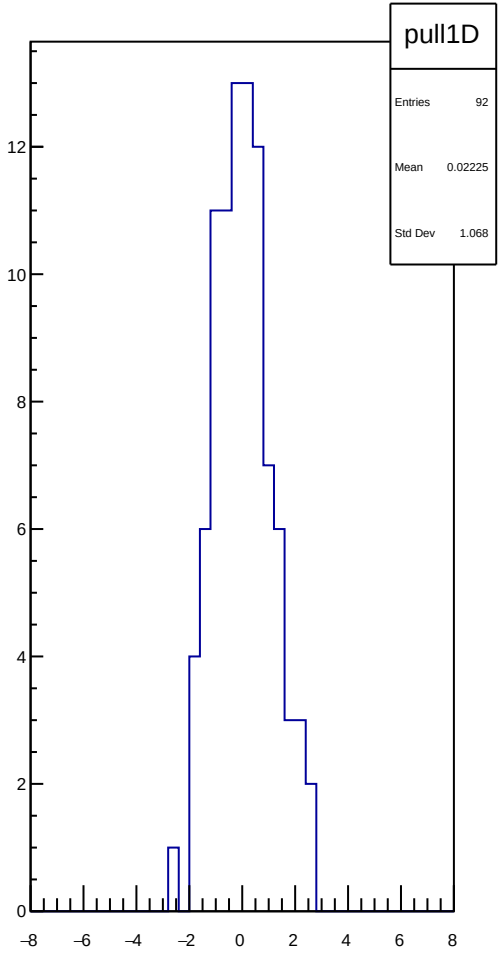

asym_atl1r2_avg_rms vs run
χ² / ndf 2235 / 91
p0 4631 ± 3.488
5200
5000
4800
4600
4400
4200

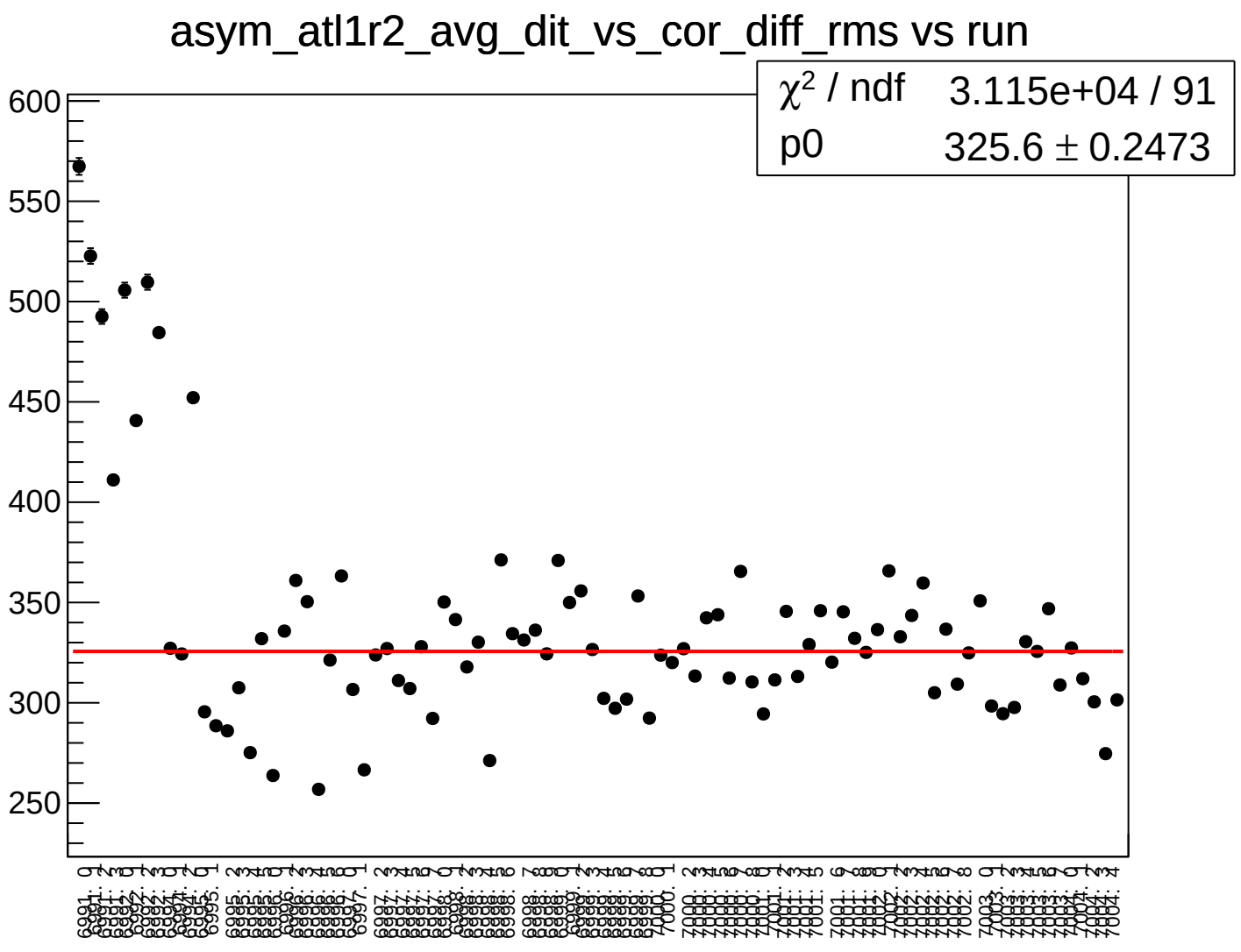

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.44 / 91
p0 1.309e−13 ± 1.11e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 2364
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

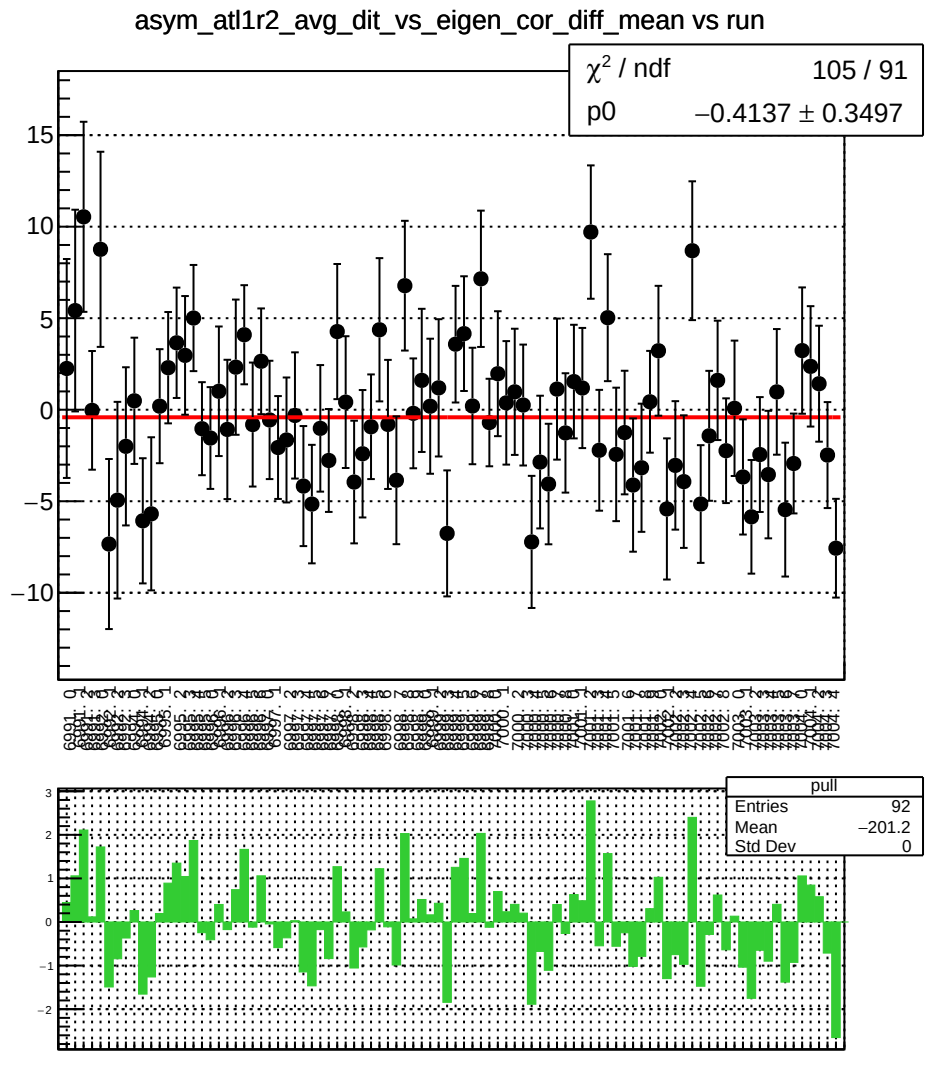

pull1D
Entries 92
Mean 0.001881
Std Dev 1.024
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

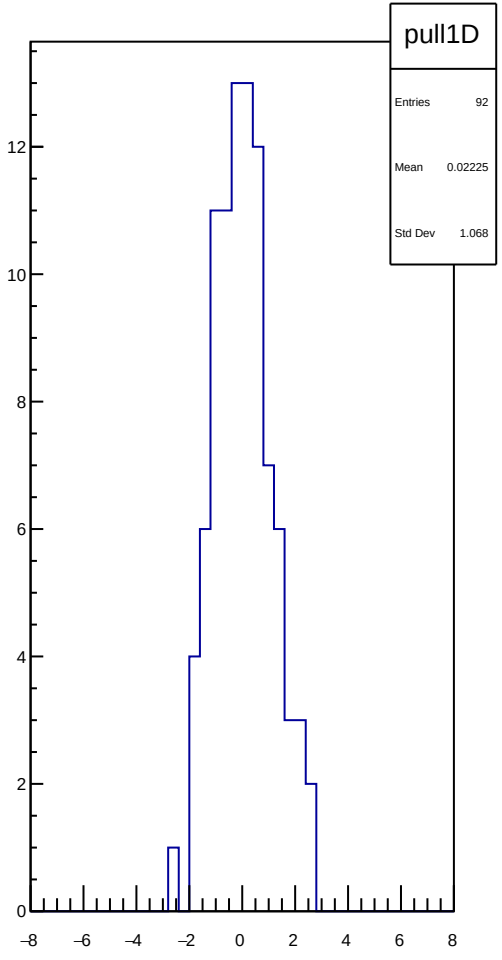

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 91
p0 6.184e−11 ± 7.849e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

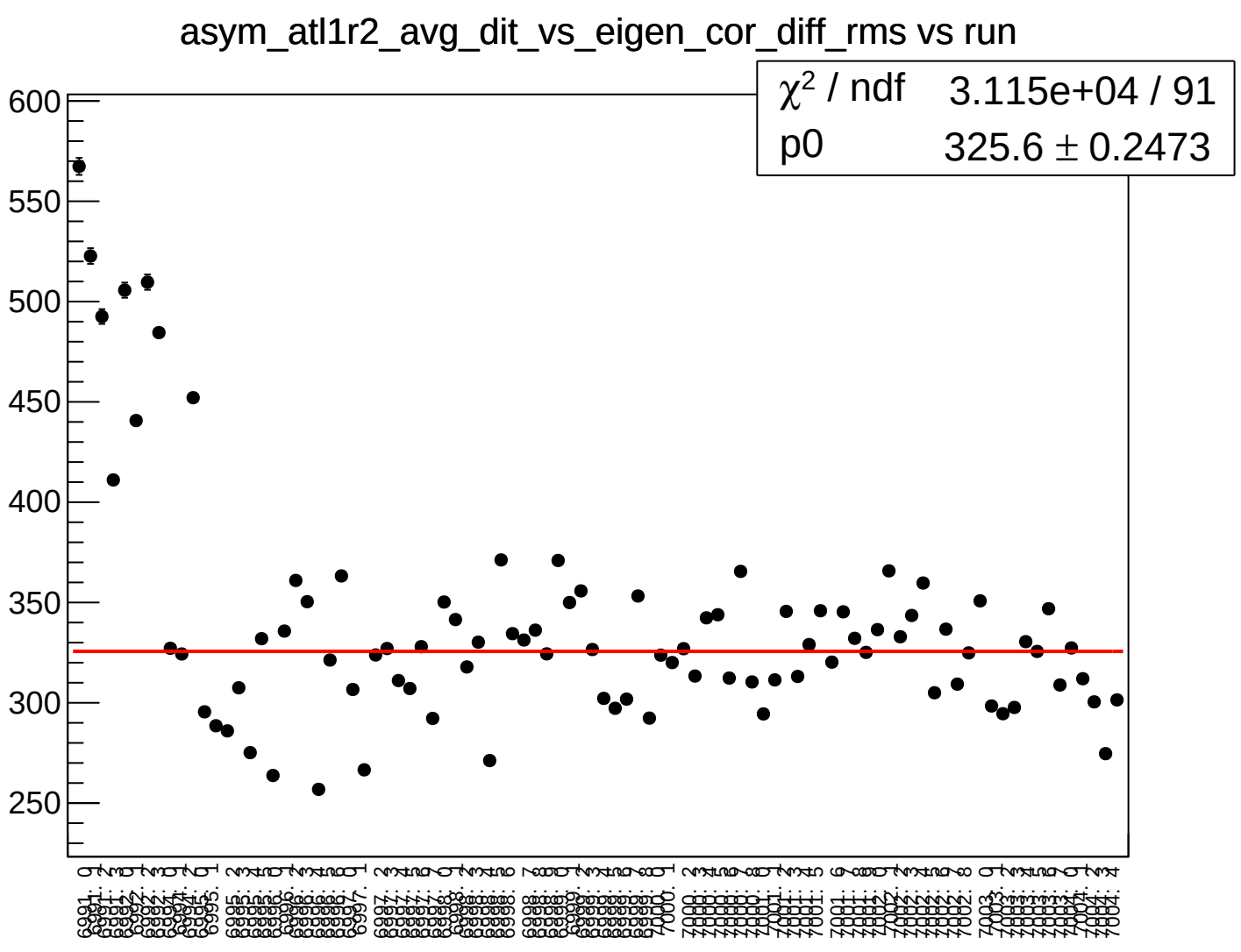

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105 / 91
p0 −0.4137 ± 0.3497
pull
Entries 92
Mean −201.2
Std Dev 0

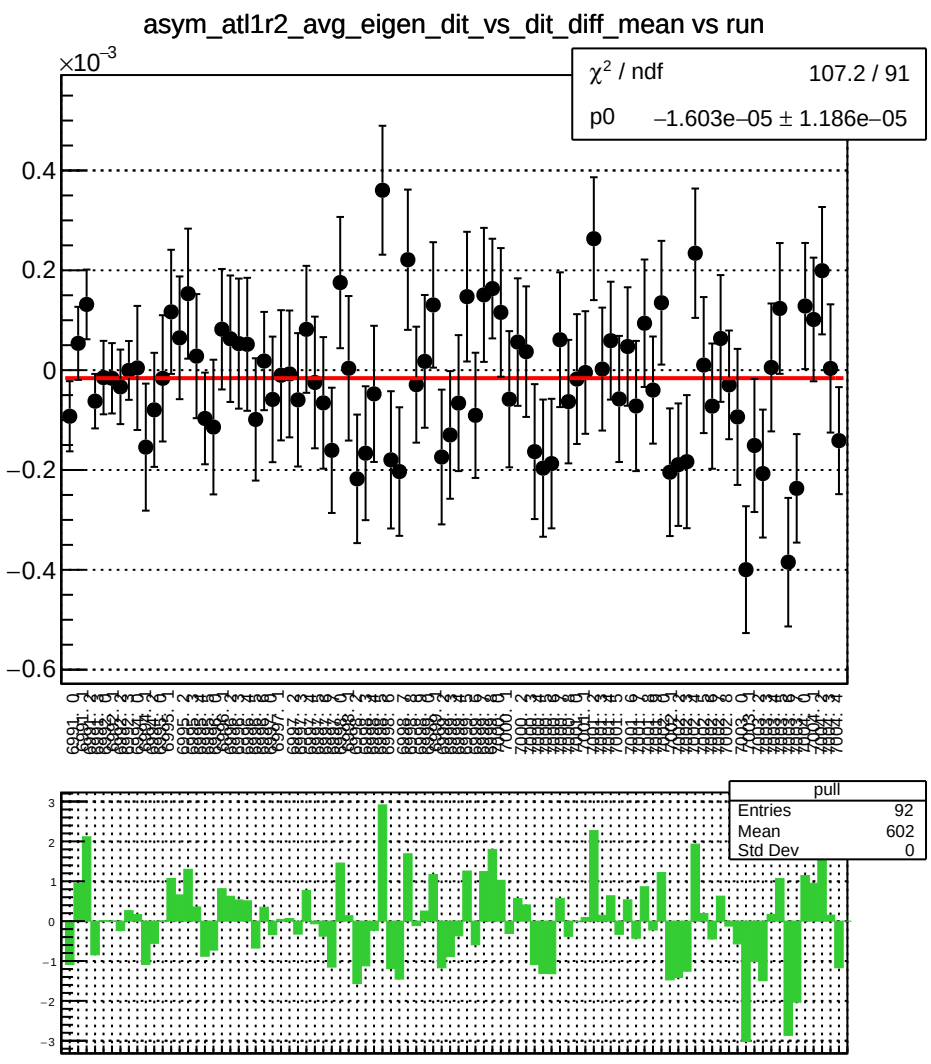

pull1D
Entries 92
Mean 0.02225
Std Dev 1.068

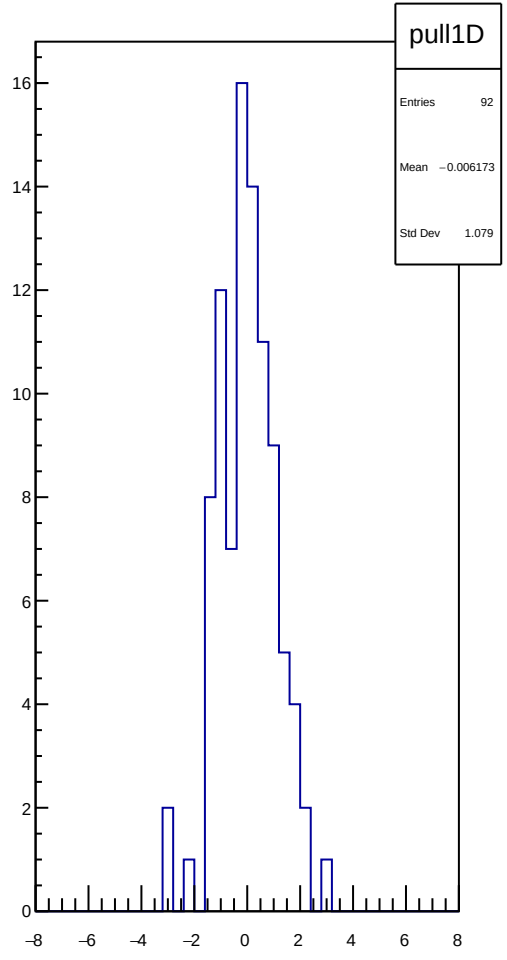

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.115e+04 / 91
p0 325.6 ± 0.2473
600
550
500
450
400
350
300
250

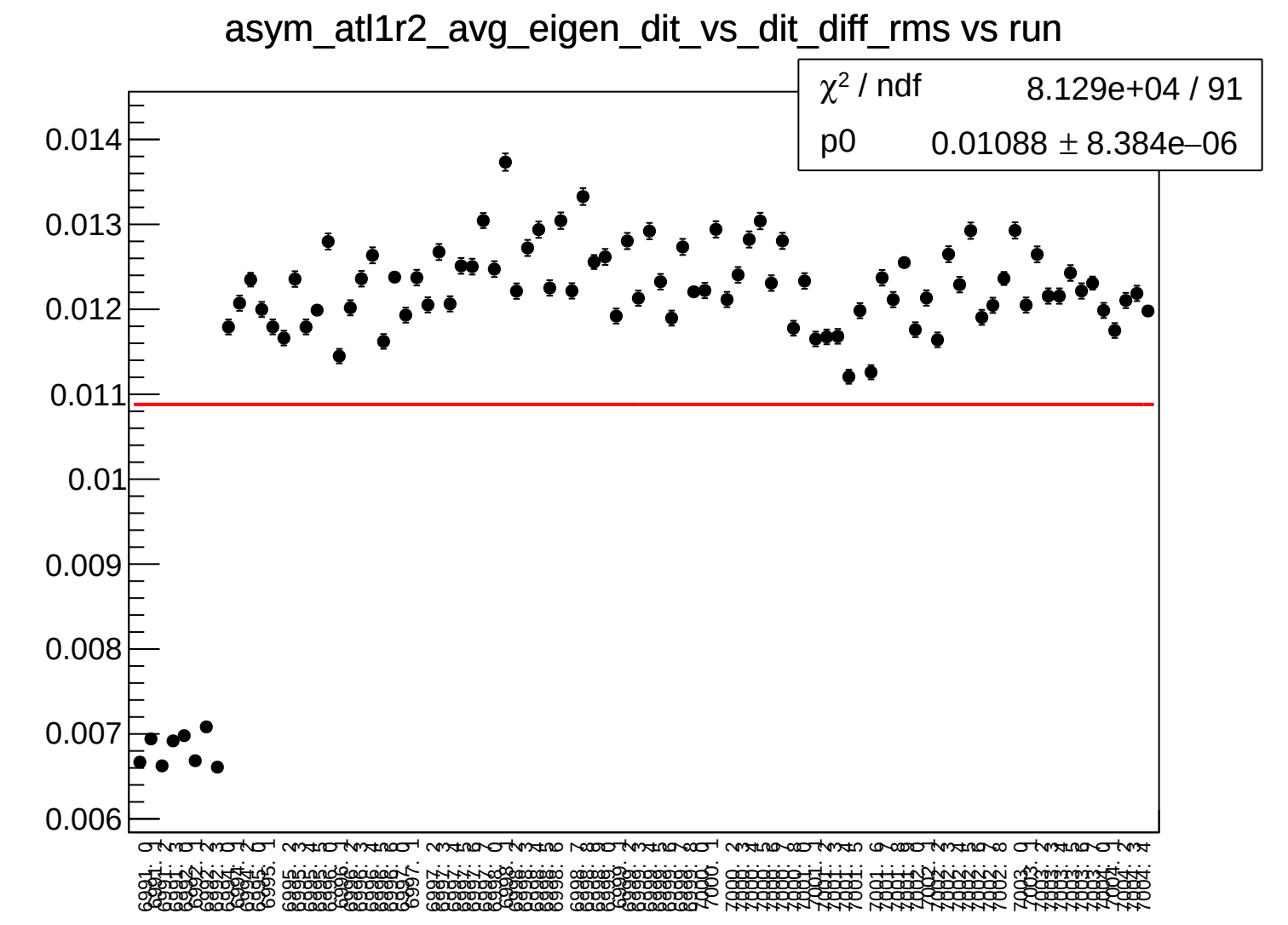

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105 / 91
p0 −0.4137 ± 0.3497
pull
Entries 92
Mean −201.2
Std Dev 0

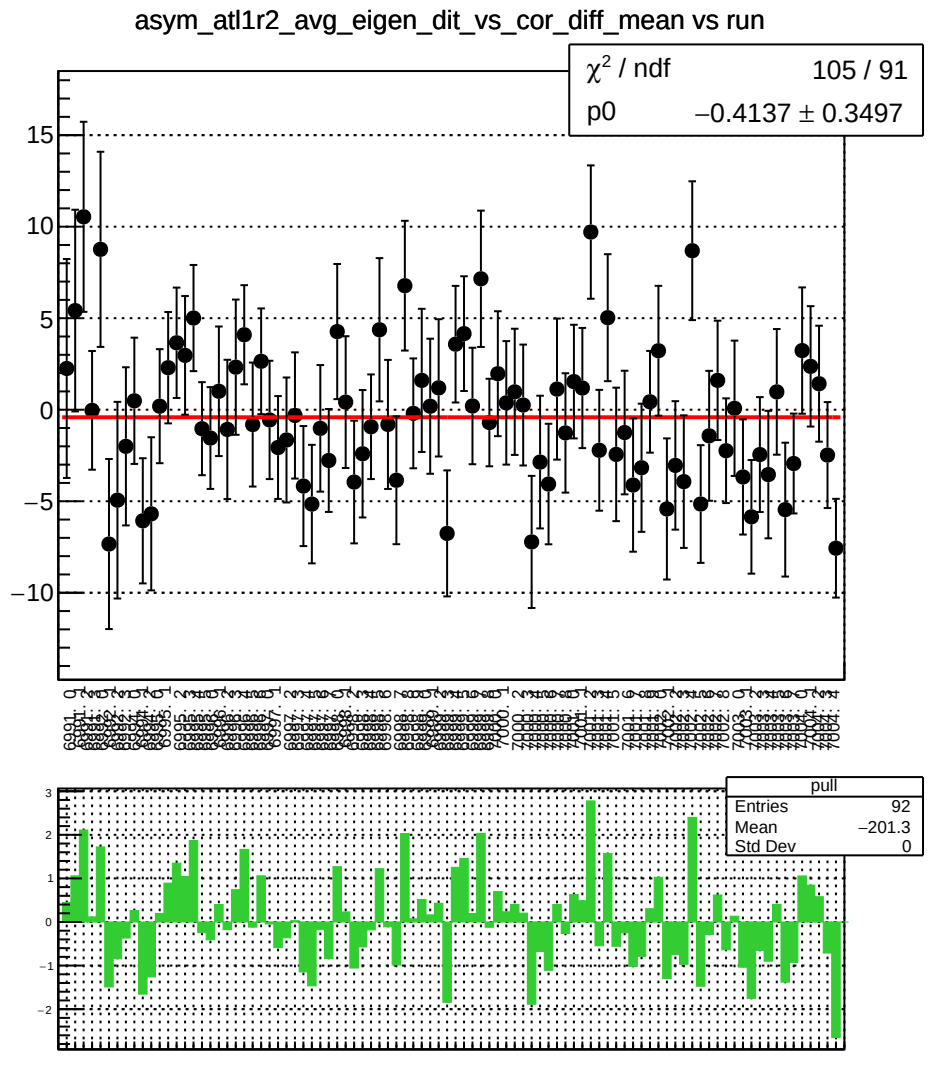

pull1D
Entries 92
Mean 0.02225
Std Dev 1.068

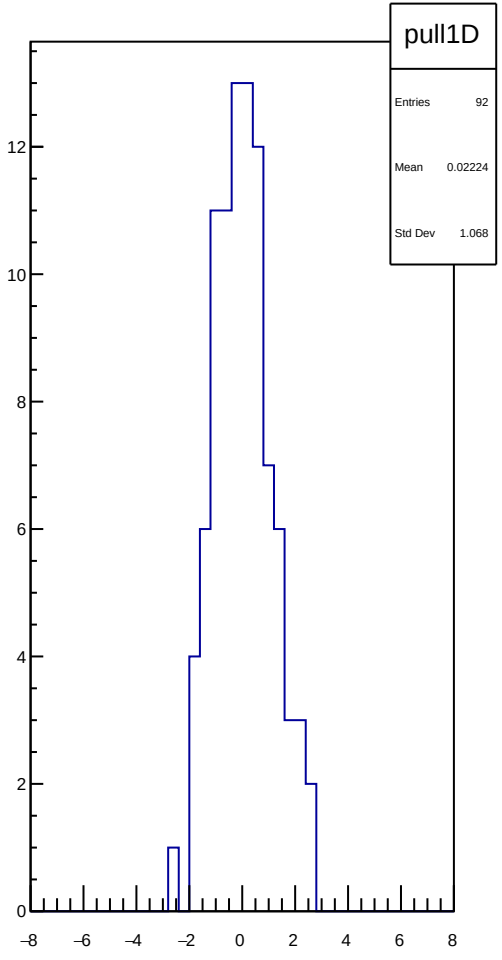

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.115e+04 / 91
p0 325.6 ± 0.2473
600
550
500
450
400
350
300
250

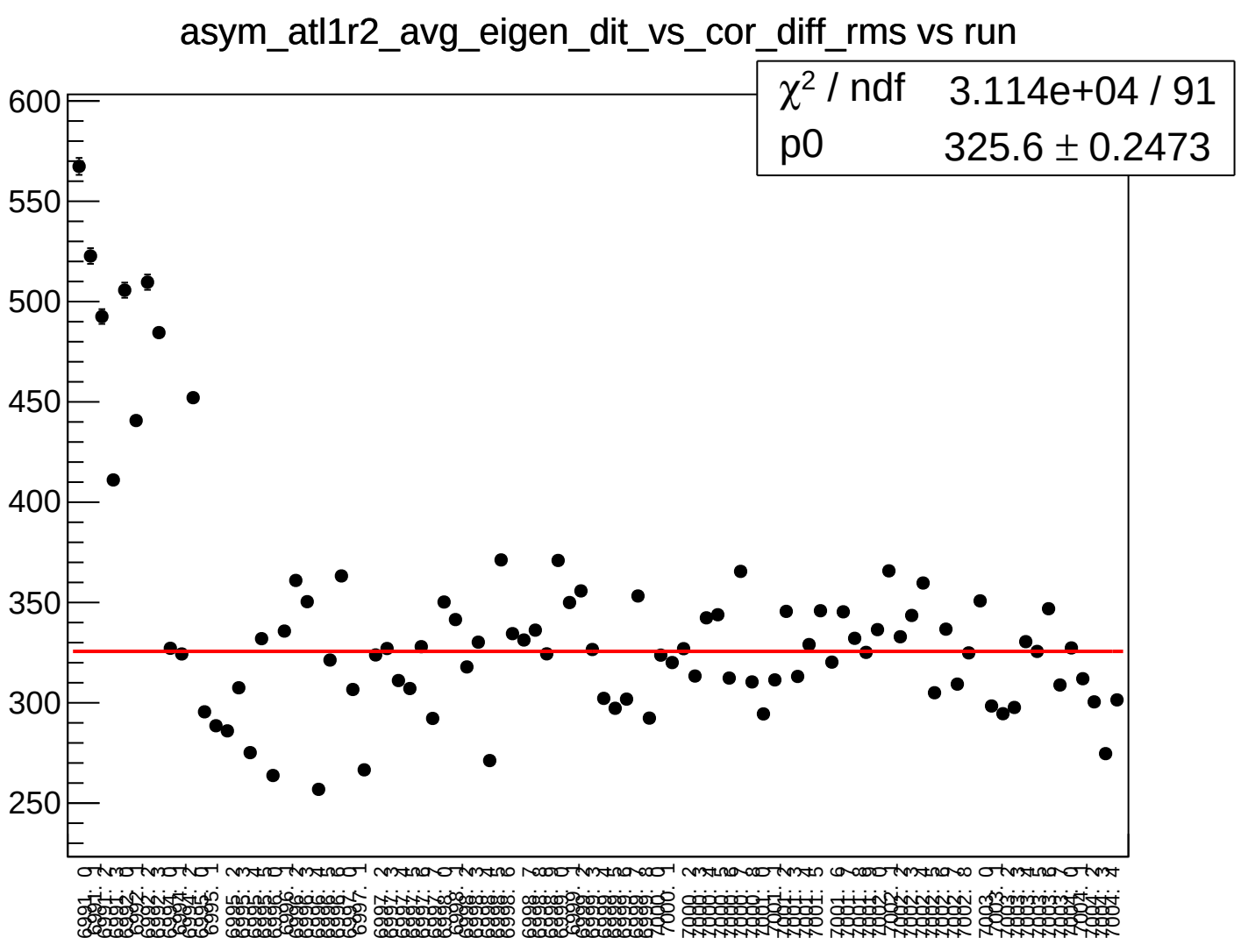

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 107.2 / 91
p0 −1.603e−05 ± 1.186e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean 602
Std Dev 0
3
2
1
0
−1
−2
−3

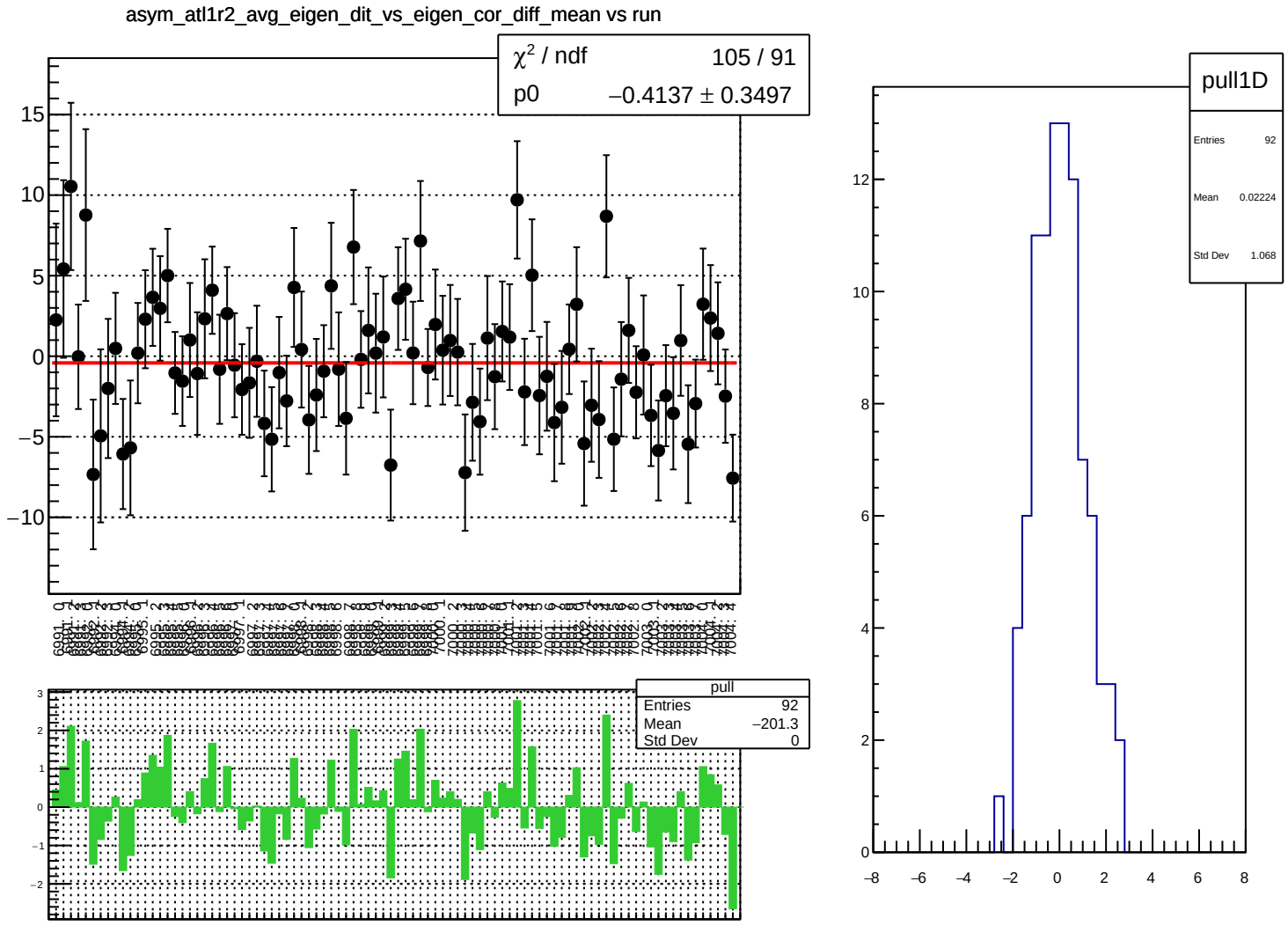

pull1D
Entries 92
Mean −0.006173
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

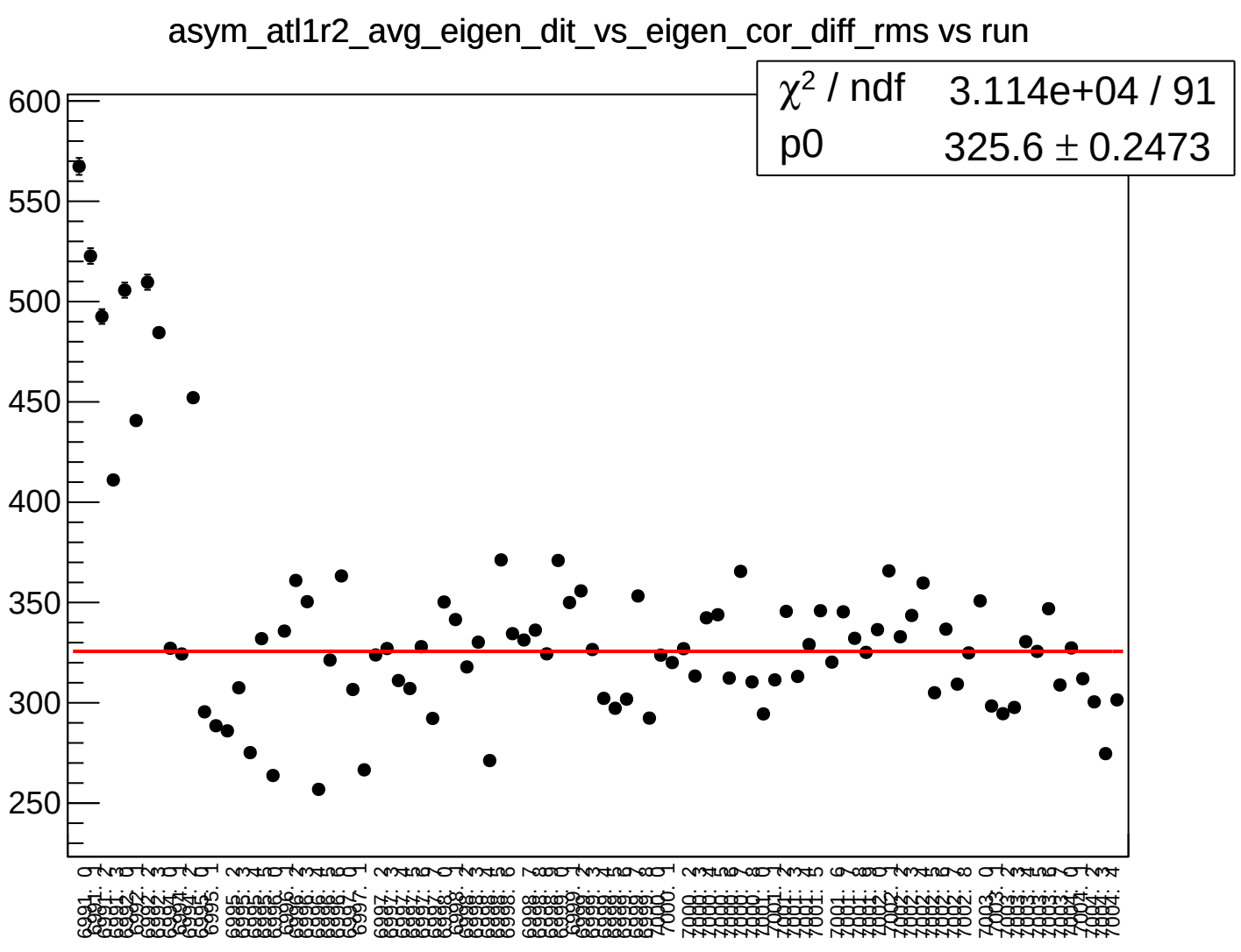

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.129e+04 / 91
p0 0.01088 ± 8.384e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

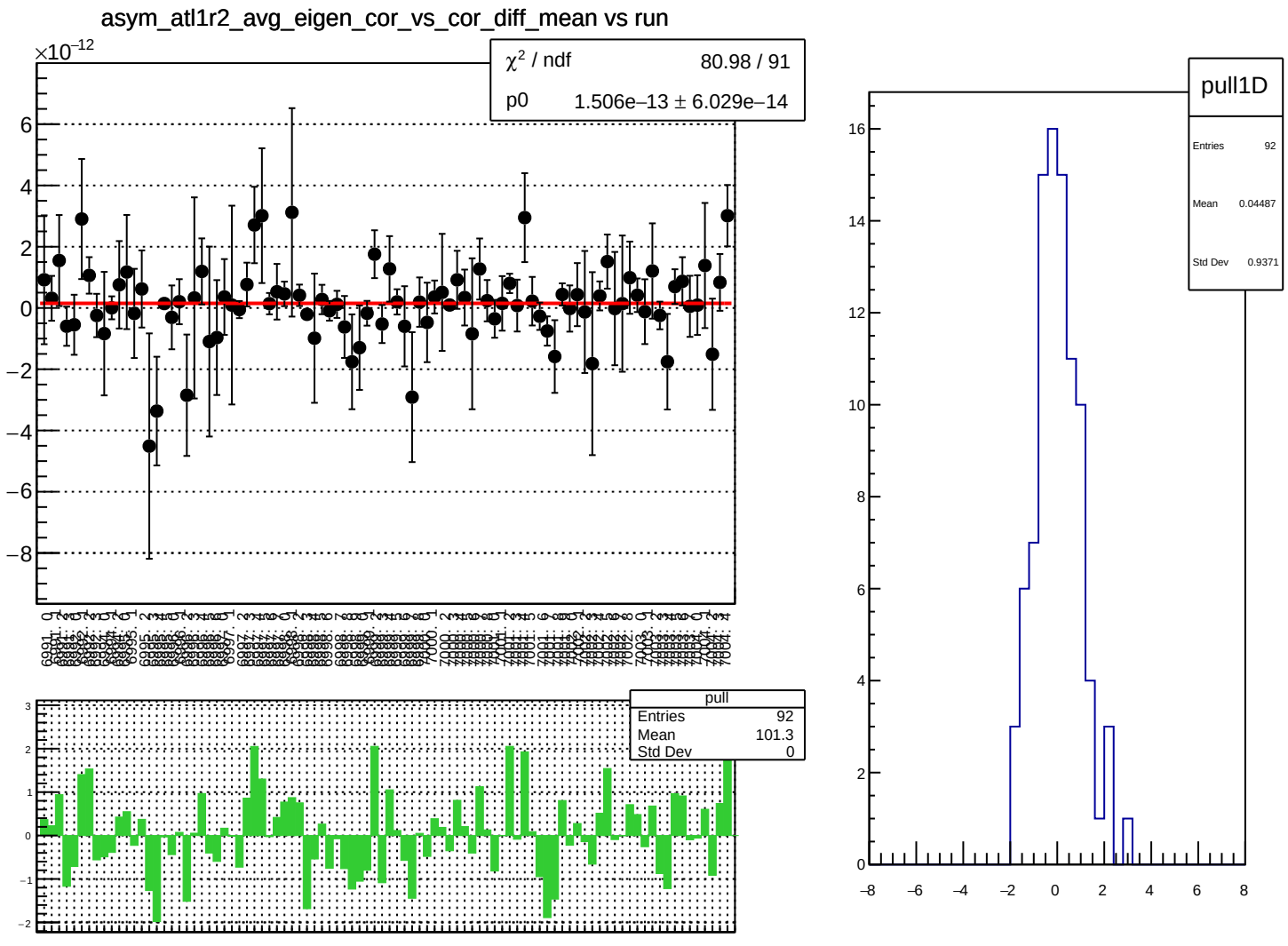

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105 / 91
p0 −0.4137 ± 0.3497
15
10
5
0
−5
−10
pull
Entries 92
Mean −201.3
Std Dev 0
3
2
1
0
−1
−2

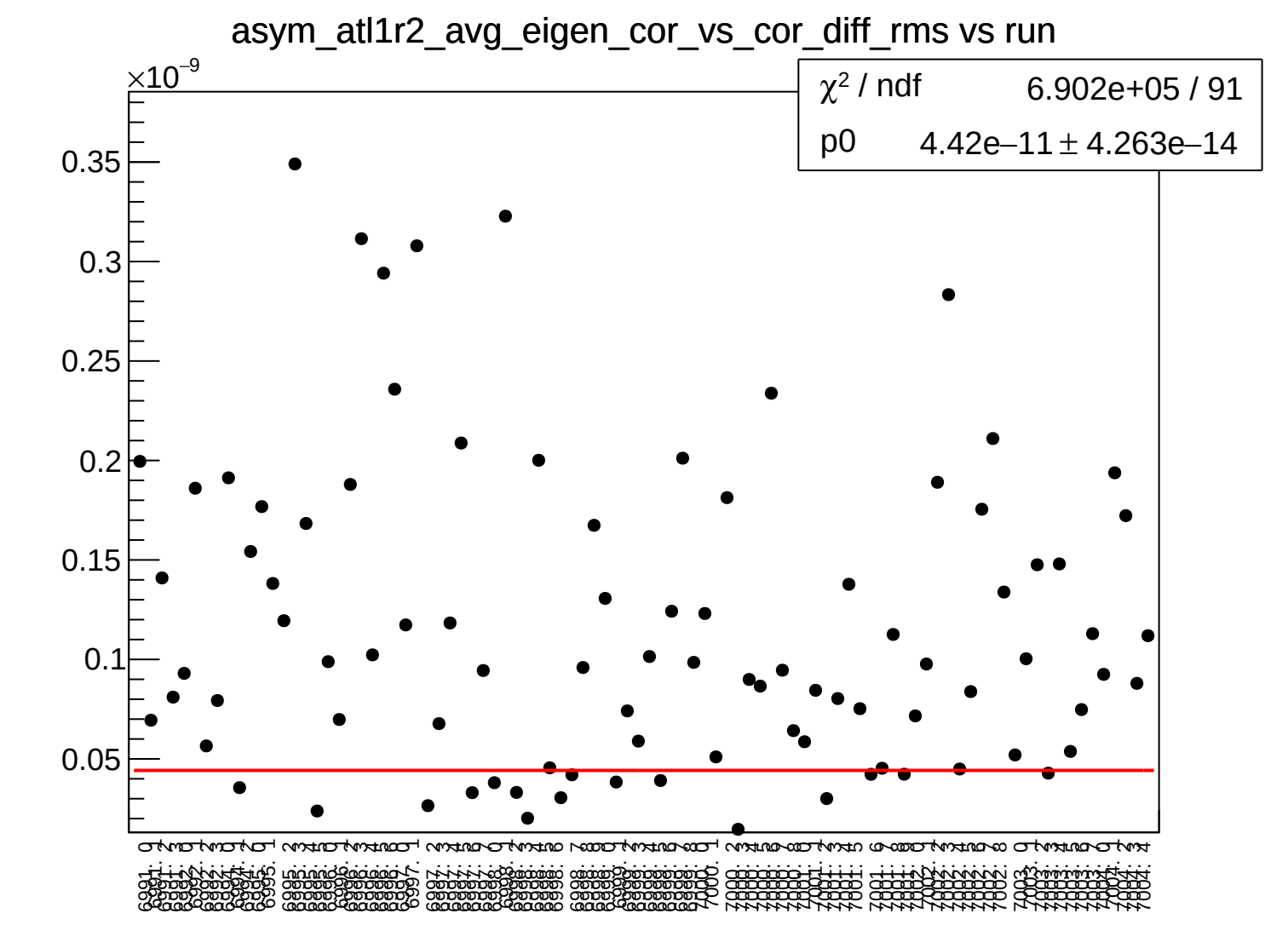

pull1D
Entries 92
Mean 0.02224
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

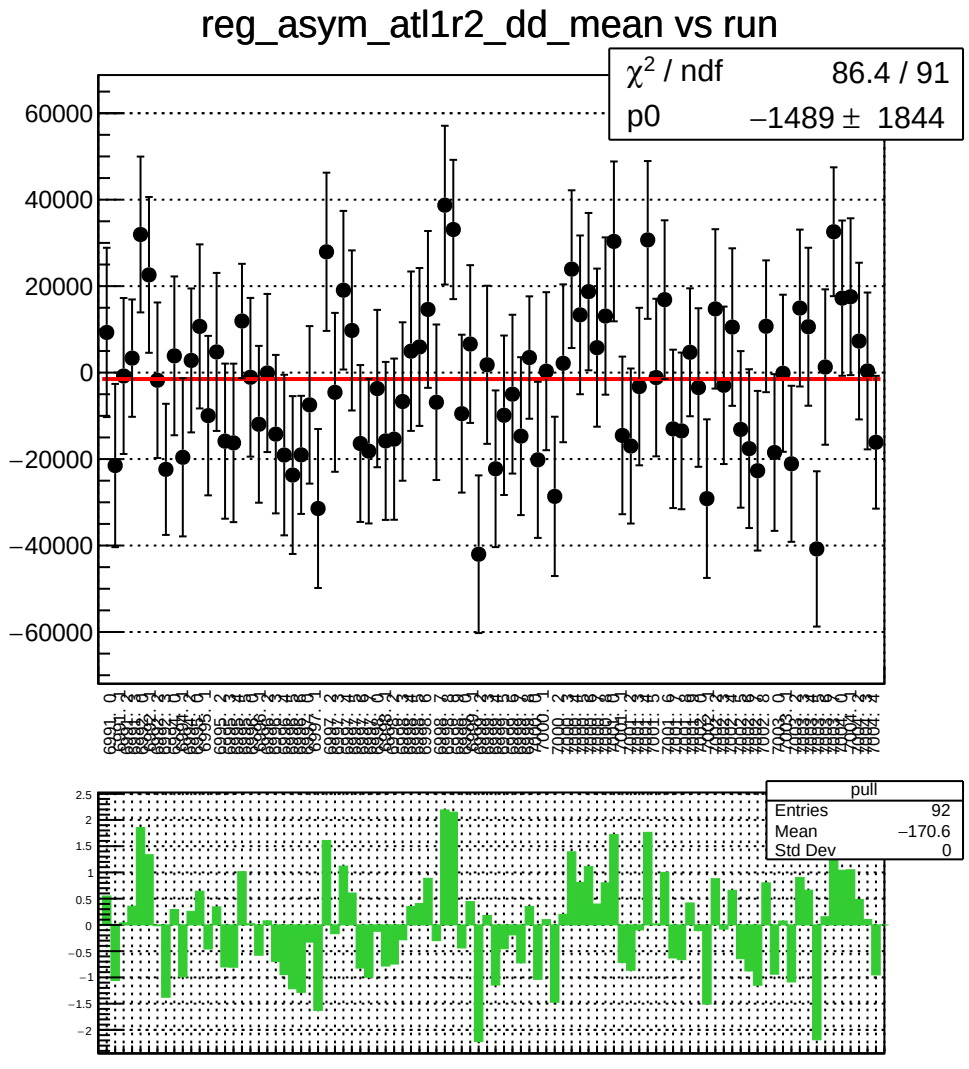

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.114e+04 / 91
p0 325.6 ± 0.2473
600
550
500
450
400
350
300
250

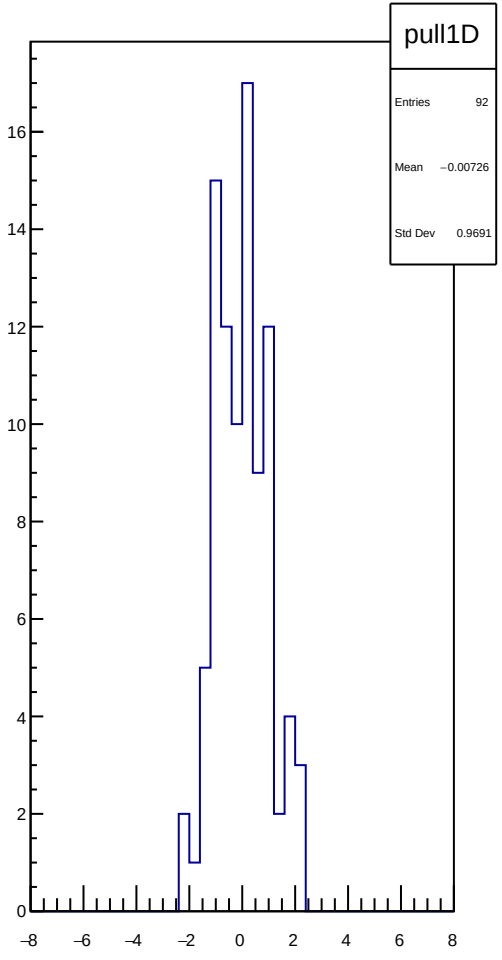

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105 / 91
p0 −0.4137 ± 0.3497
15
10
5
0
−5
−10
pull
Entries 92
Mean −201.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.02224
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

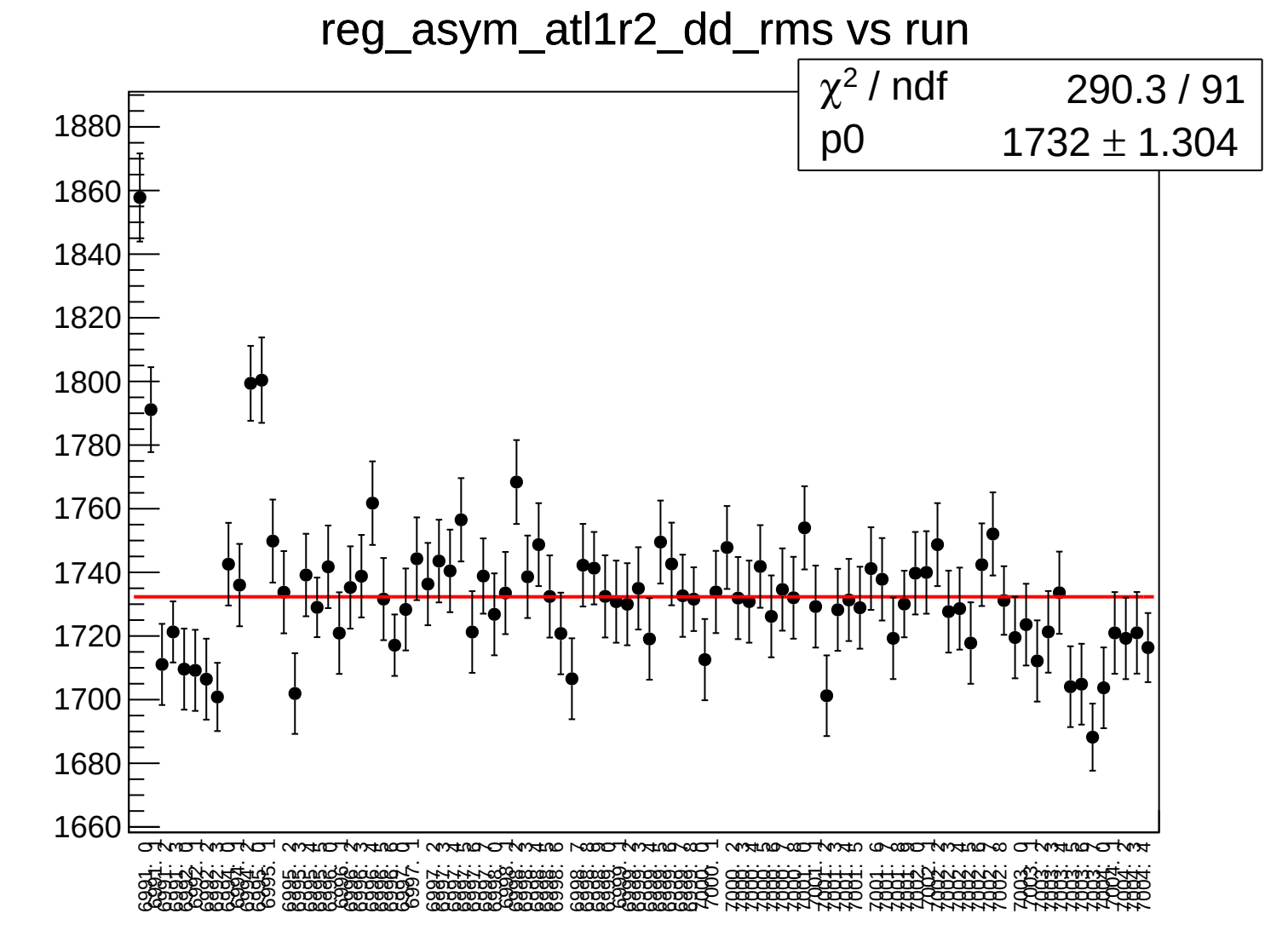

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.114e+04 / 91
p0 325.6 ± 0.2473
600
550
500
450
400
350
300
250

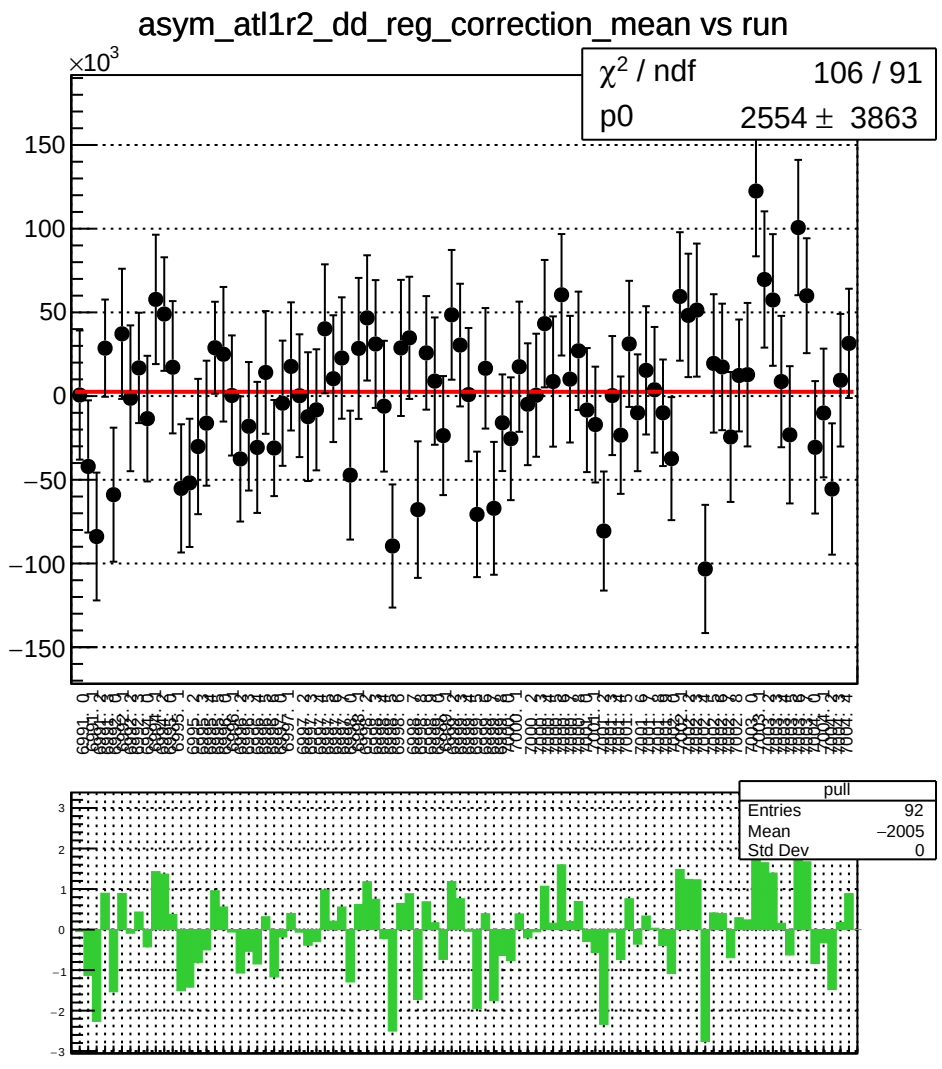

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.98 / 91
p0 1.506e−13 ± 6.029e−14
pull
Entries 92
Mean 101.3
Std Dev 0
pull1D
Entries 92
Mean 0.04487
Std Dev 0.9371

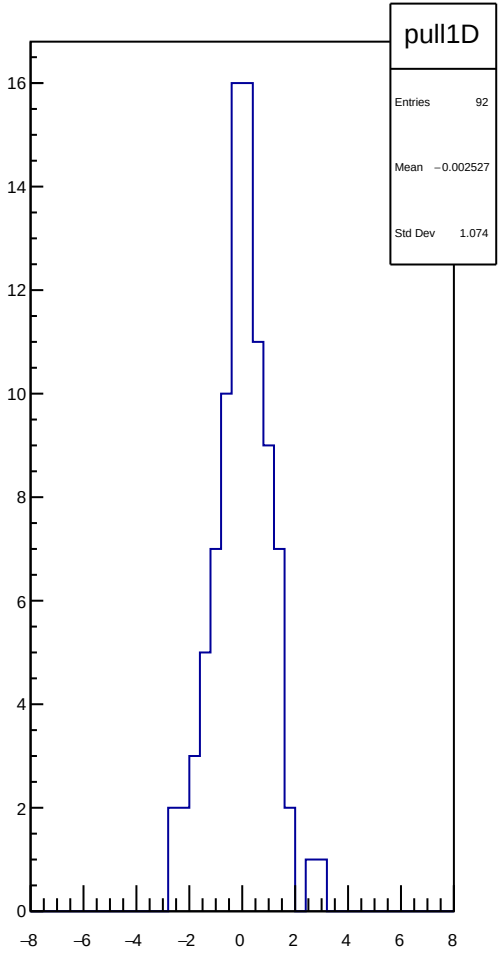

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.902e+05 / 91
p0 4.42e−11 ± 4.263e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

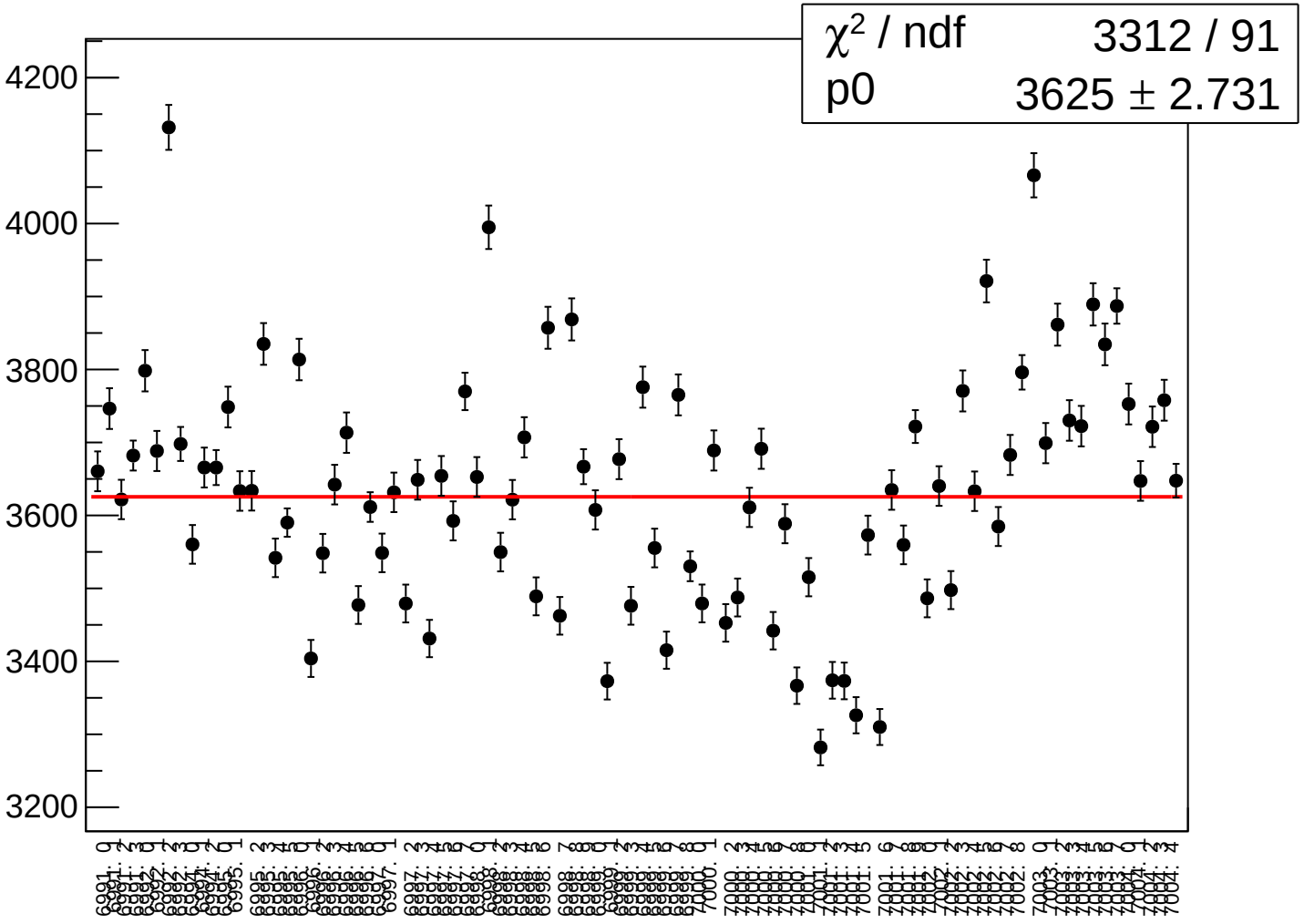

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 86.4 / 91
p0 −1489 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −170.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

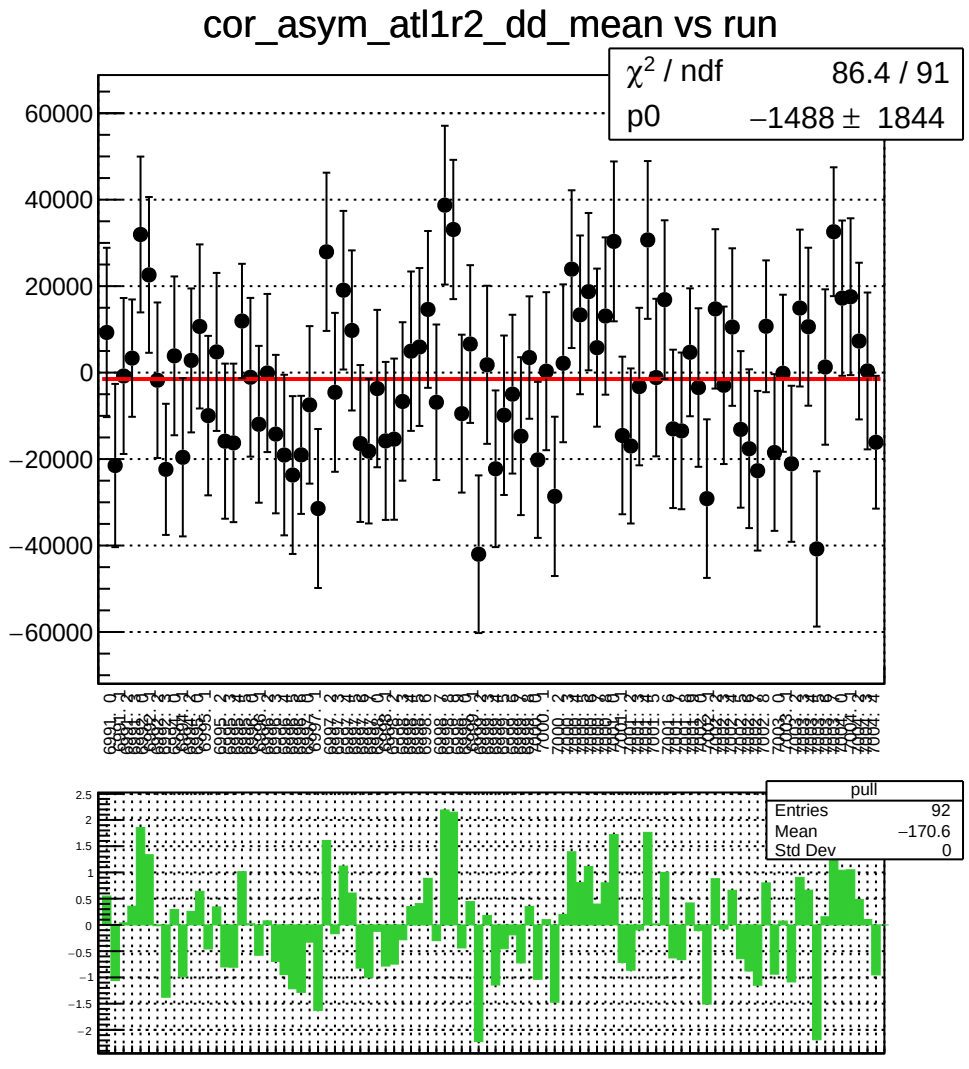

pull1D
Entries 92
Mean −0.00726
Std Dev 0.9691
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

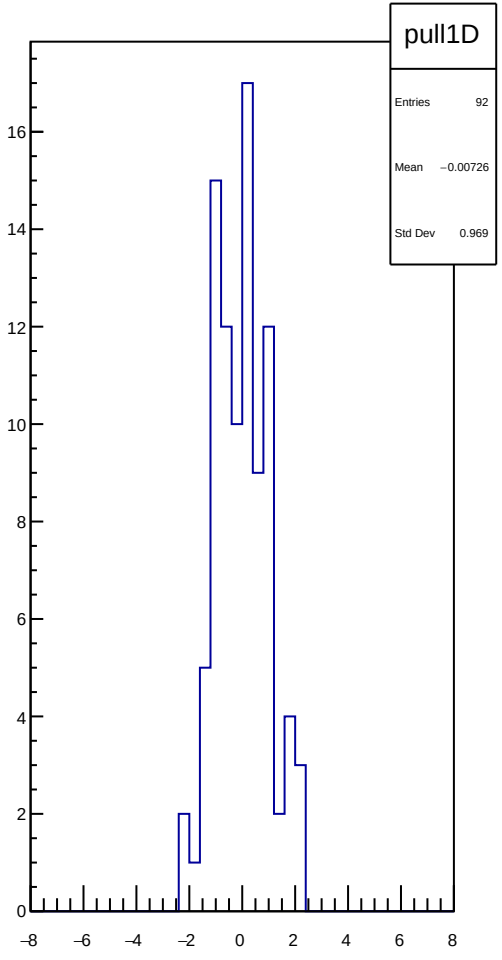

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 290.3 / 91
p0 1732 ± 1.304
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

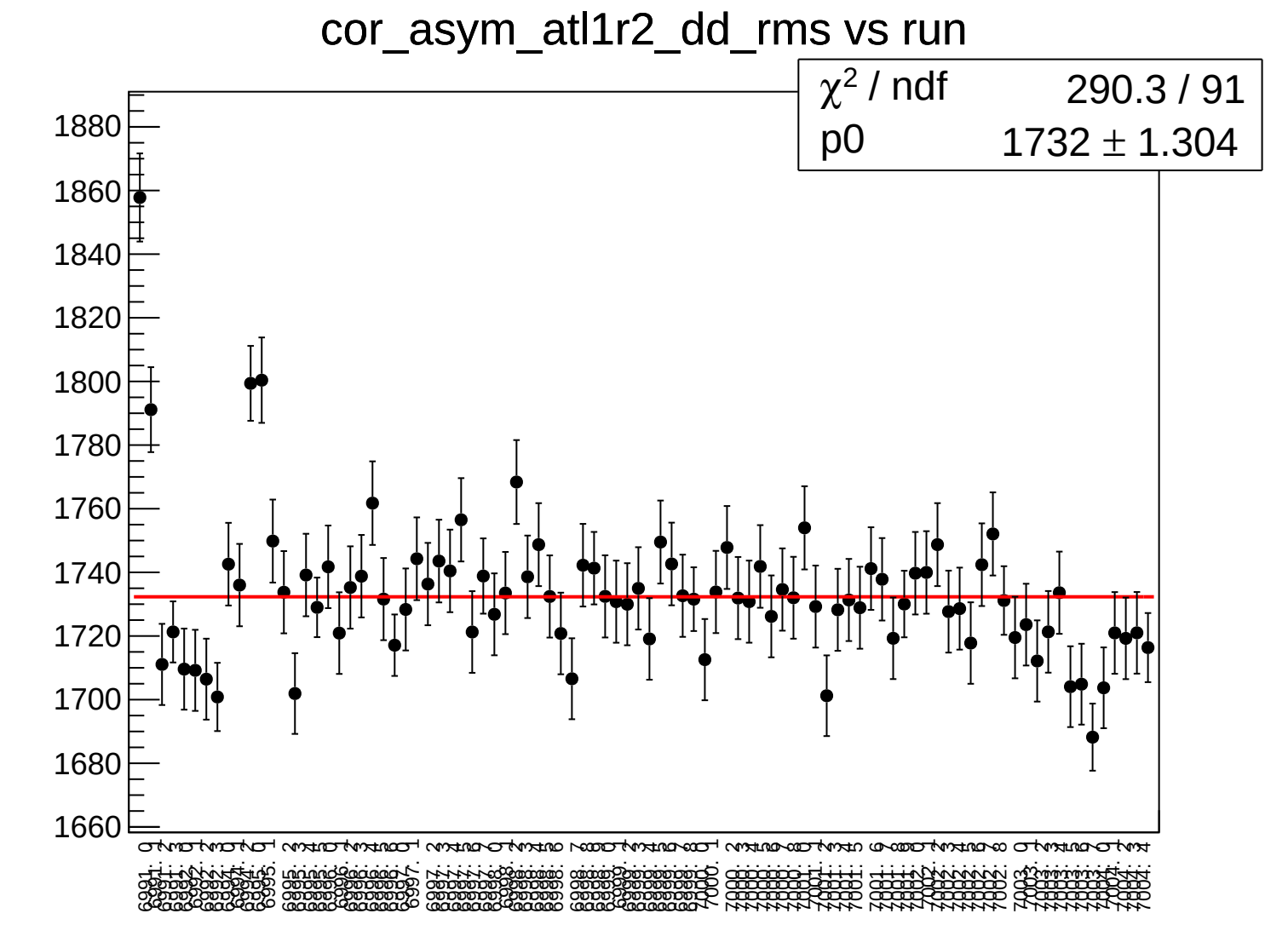

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106 / 91
p0 2554 ± 3863
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −2005
Std Dev 0
3
2
1
0
−1
−2
−3

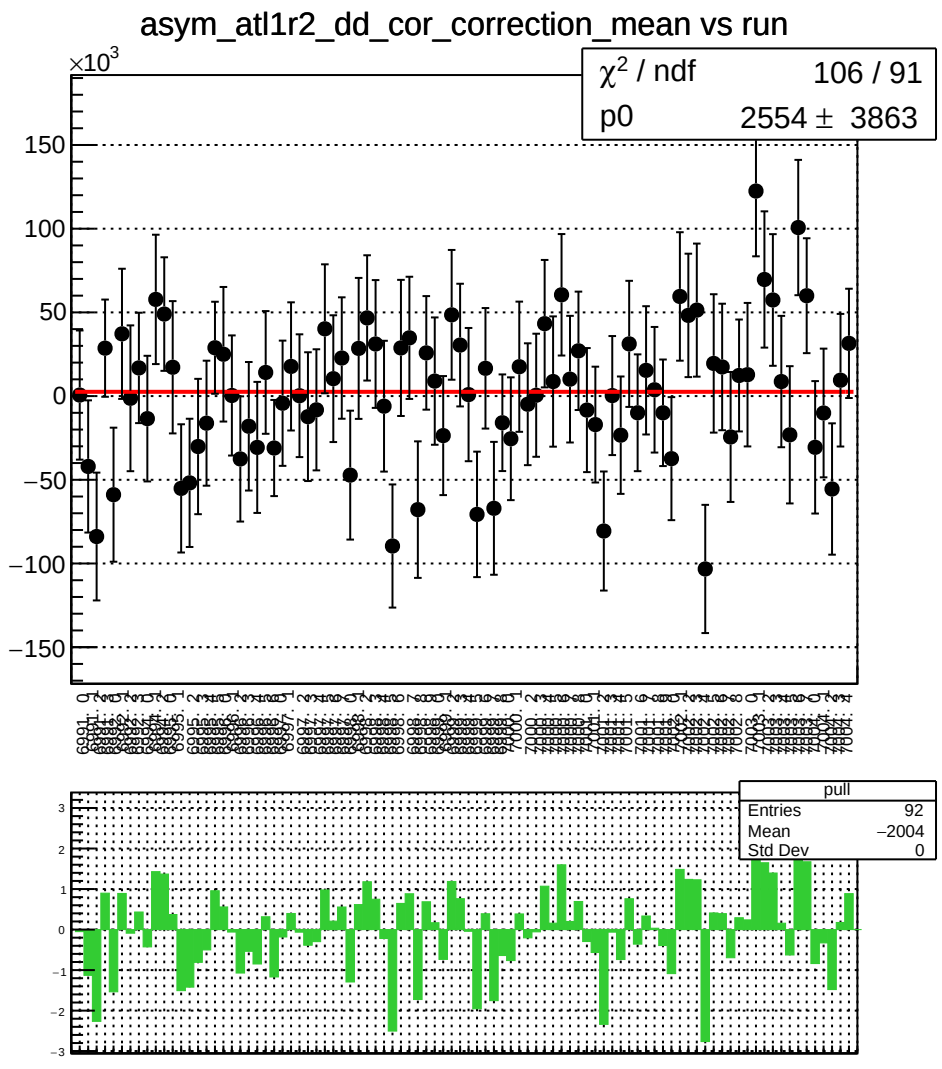

pull1D
Entries 92
Mean −0.002527
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

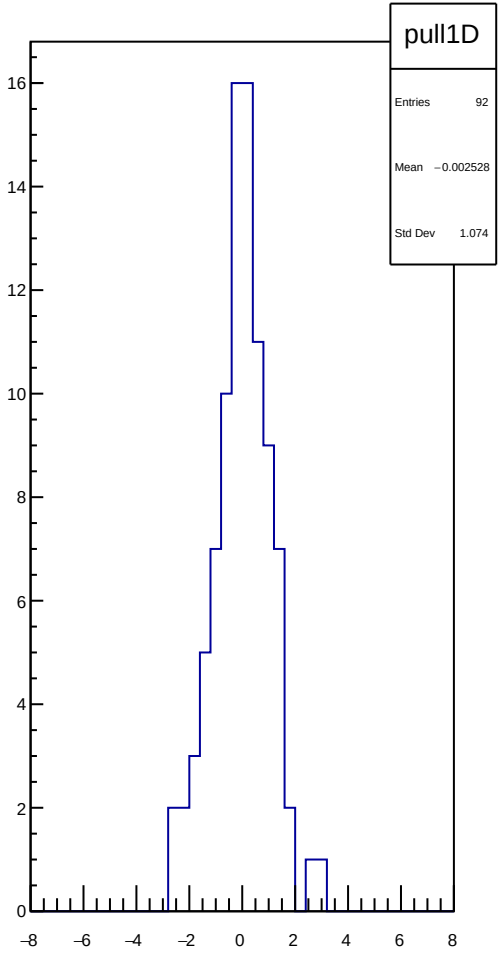

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3312 / 91
p0 3625 ± 2.731
4200
4000
3800
3600
3400
3200

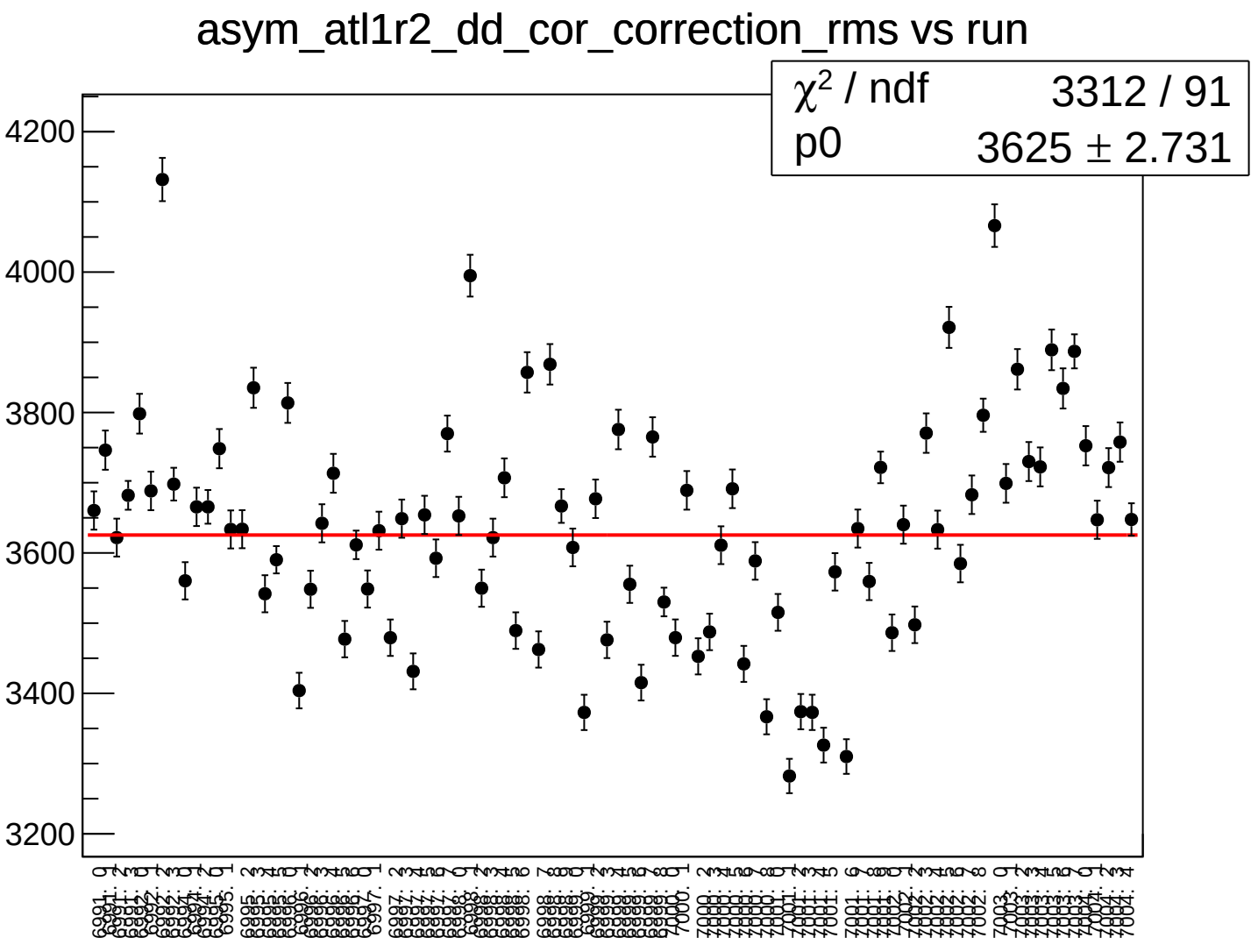

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 86.4 / 91
p0 −1488 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −170.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

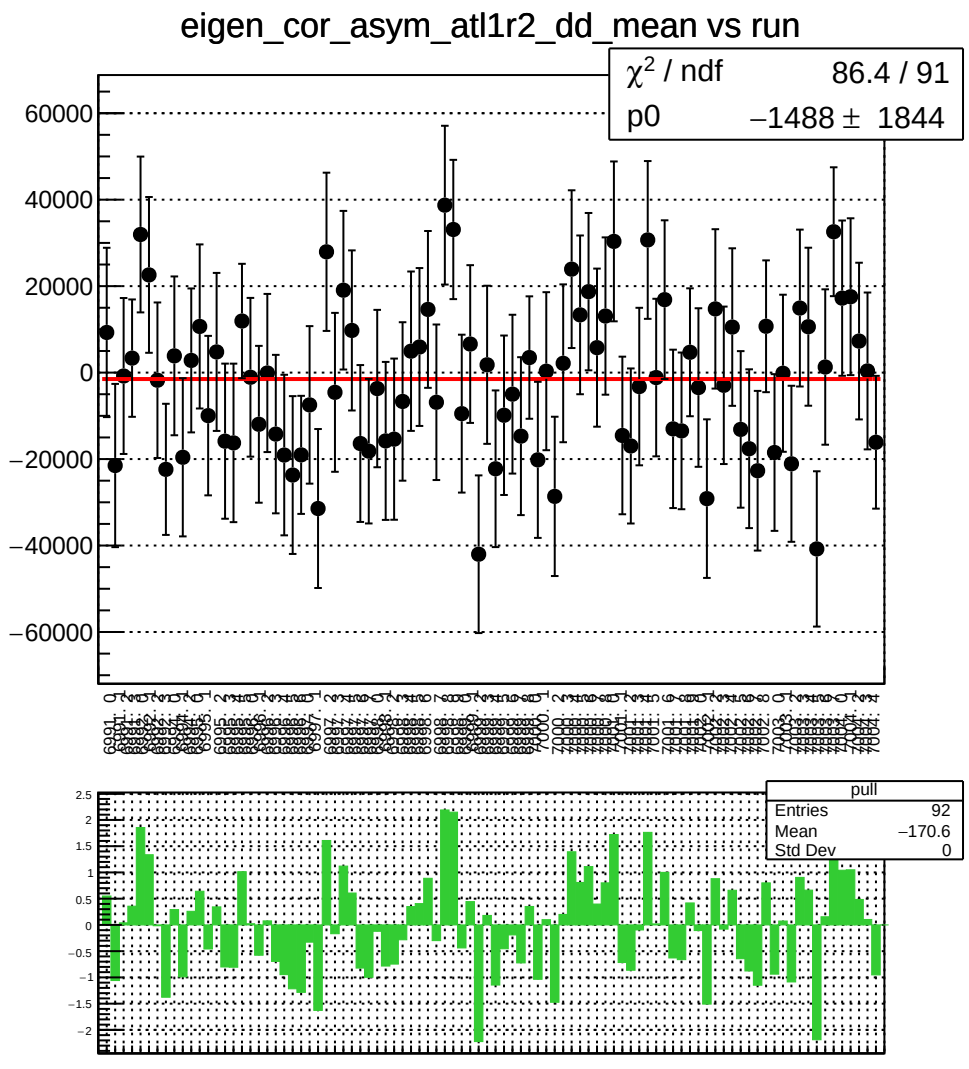

pull1D
Entries 92
Mean −0.00726
Std Dev 0.969
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

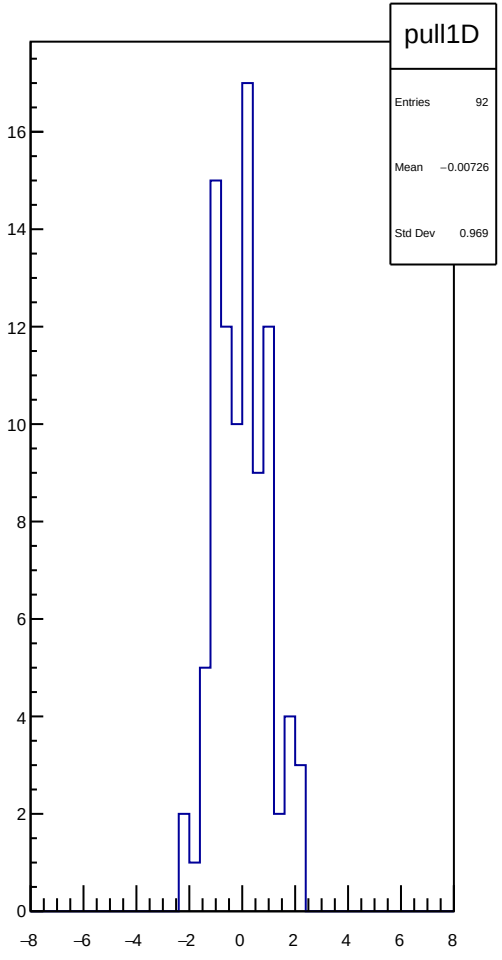

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 290.3 / 91
p0 1732 ± 1.304
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

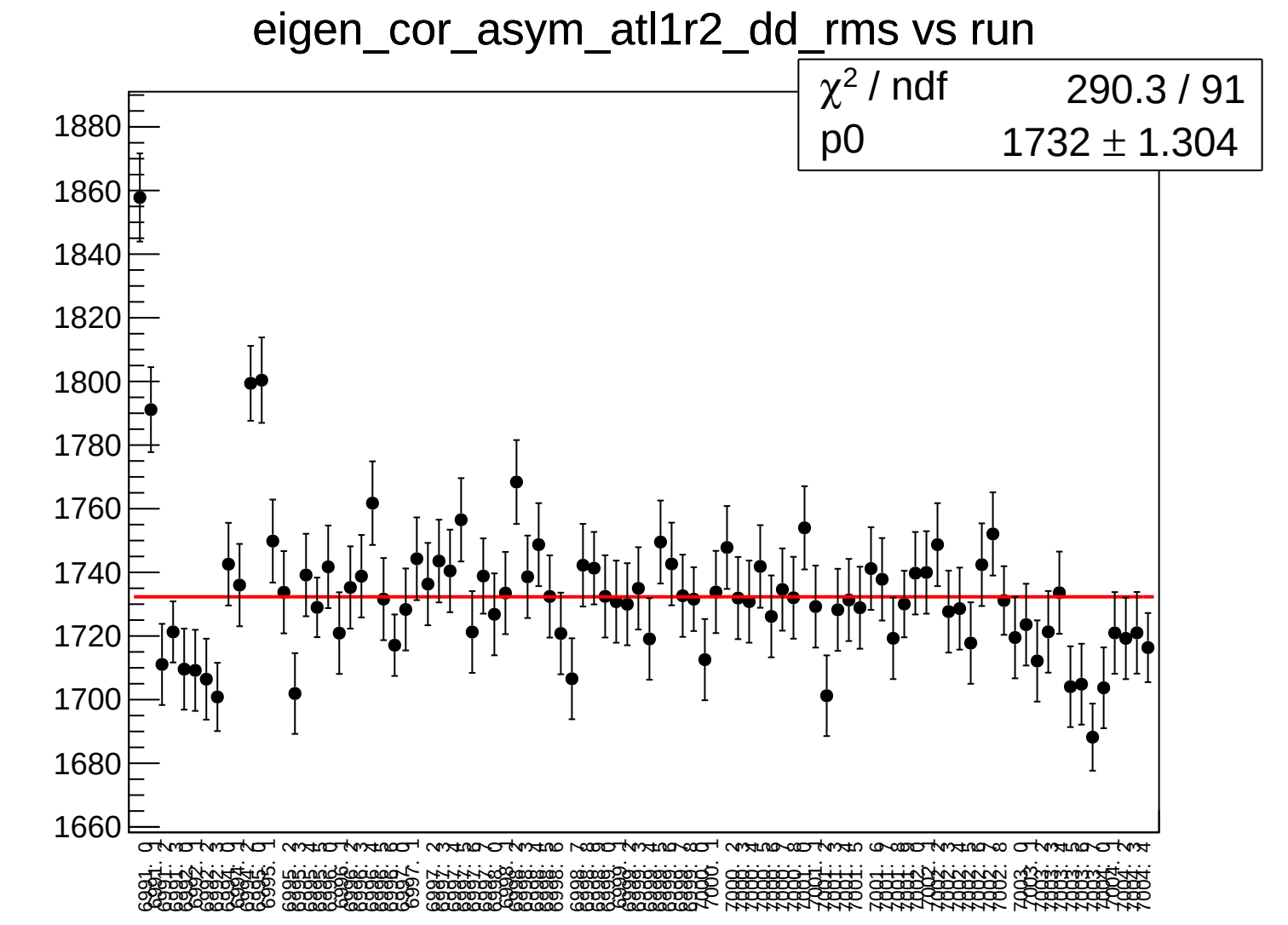

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 106 / 91
p0 2554 ± 3863
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −2004
Std Dev 0
3
2
1
0
−1
−2
−3

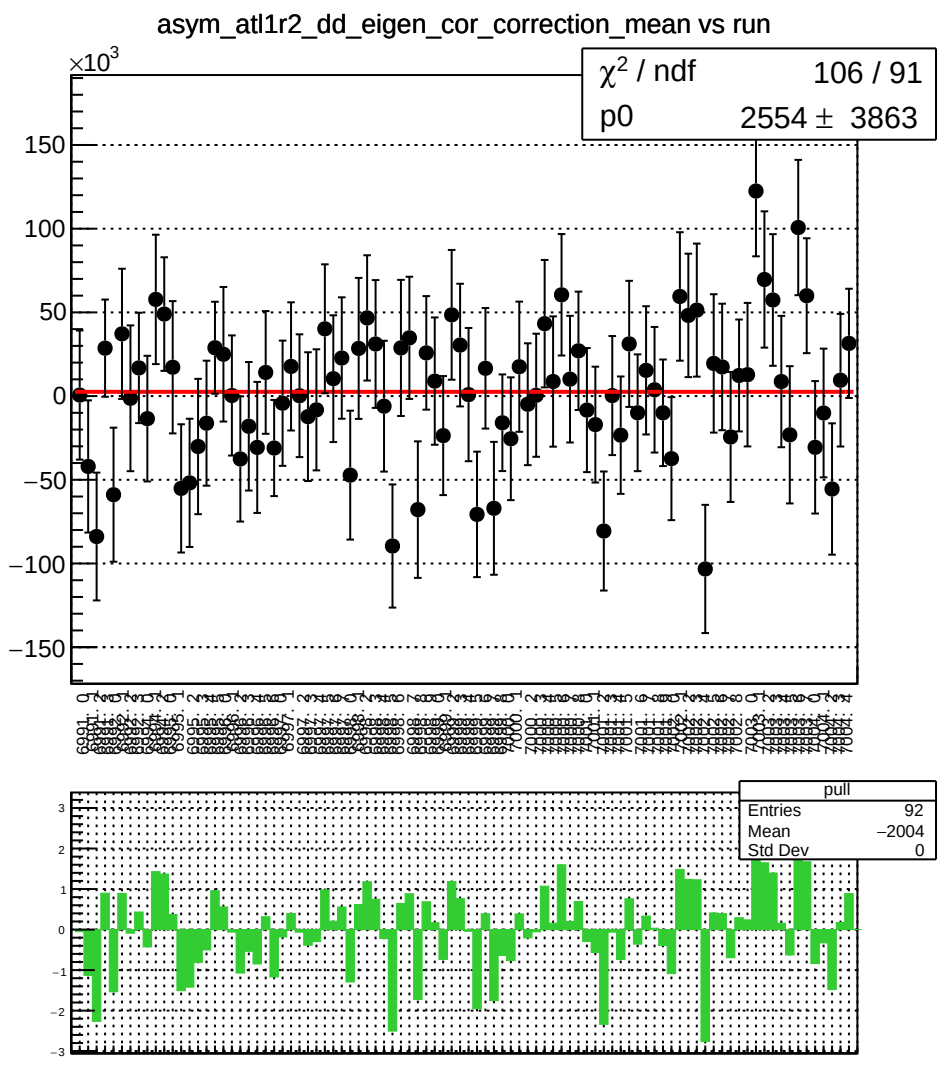

pull1D
Entries 92
Mean −0.002528
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

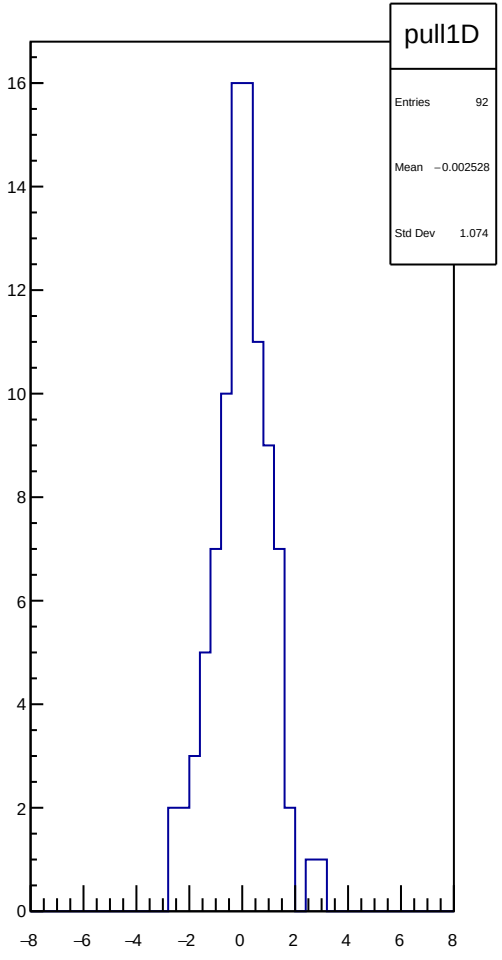

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3312 / 91
p0 3625 ± 2.731
4200
4000
3800
3600
3400
3200

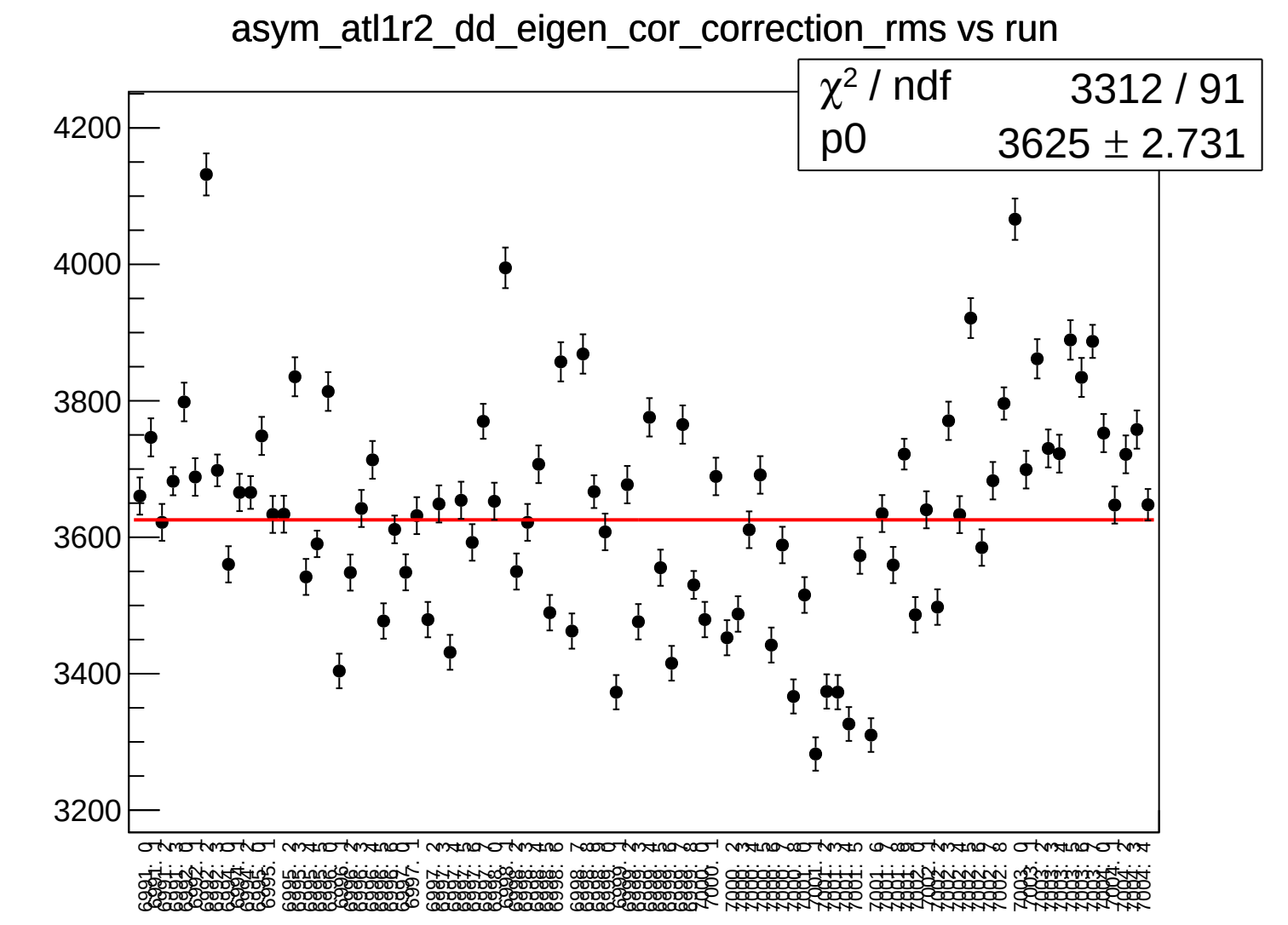

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 86.4 / 91
p0 −1488 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −170.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

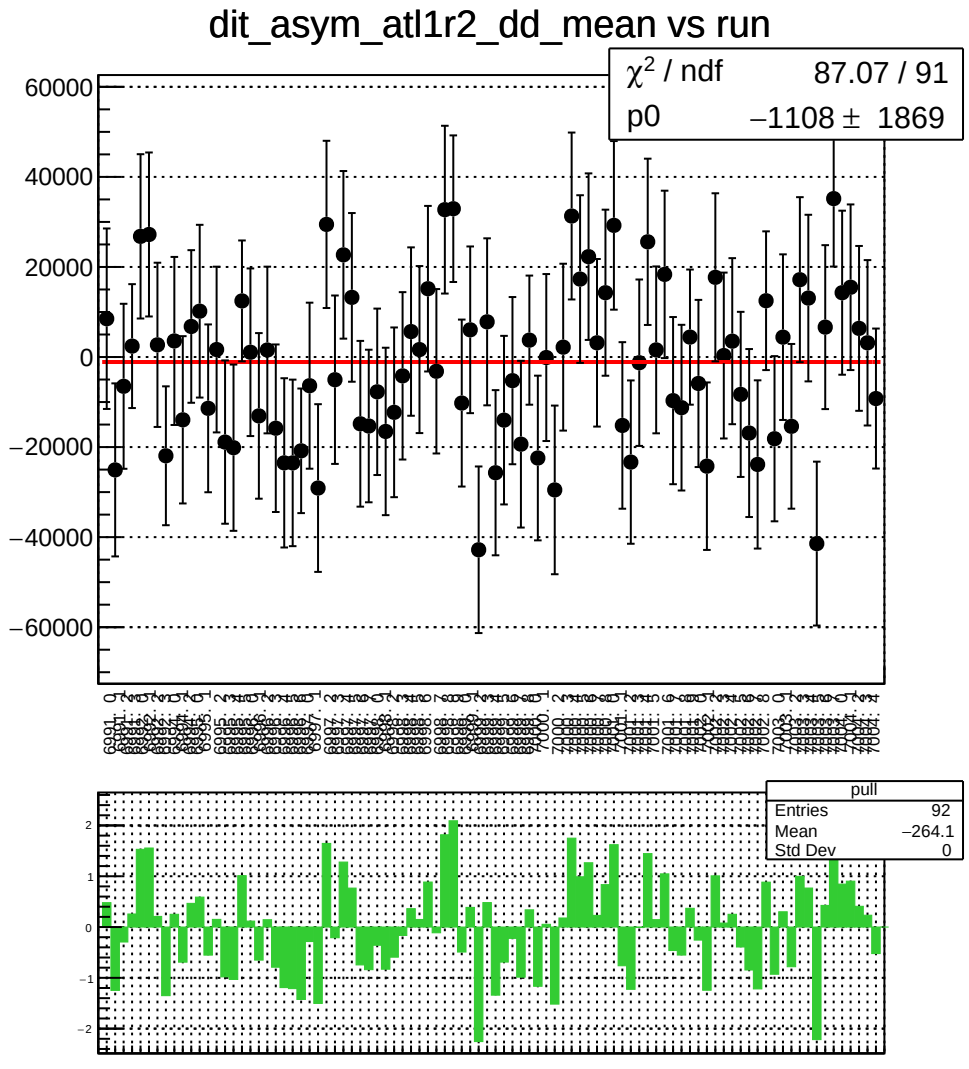

pull1D
Entries 92
Mean −0.00726
Std Dev 0.969
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

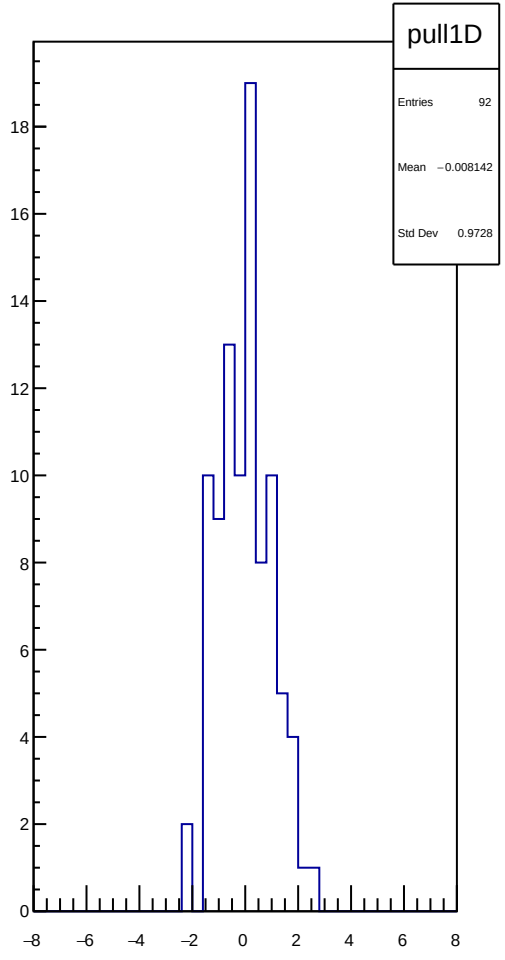

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 290.3 / 91
p0 1732 ± 1.304
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

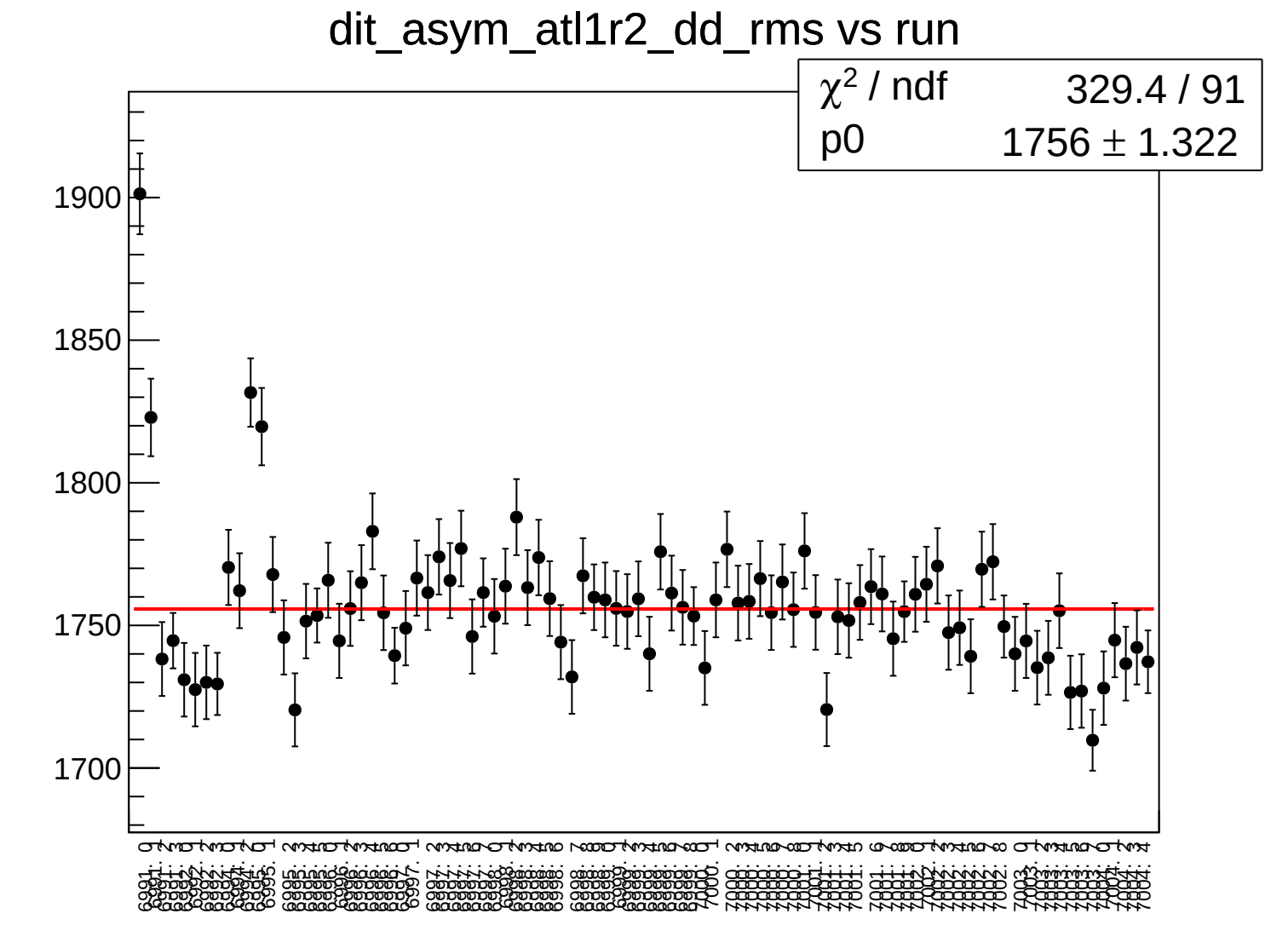

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106 / 91
p0 2554 ± 3863
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −2004
Std Dev 0
3
2
1
0
−1
−2
−3

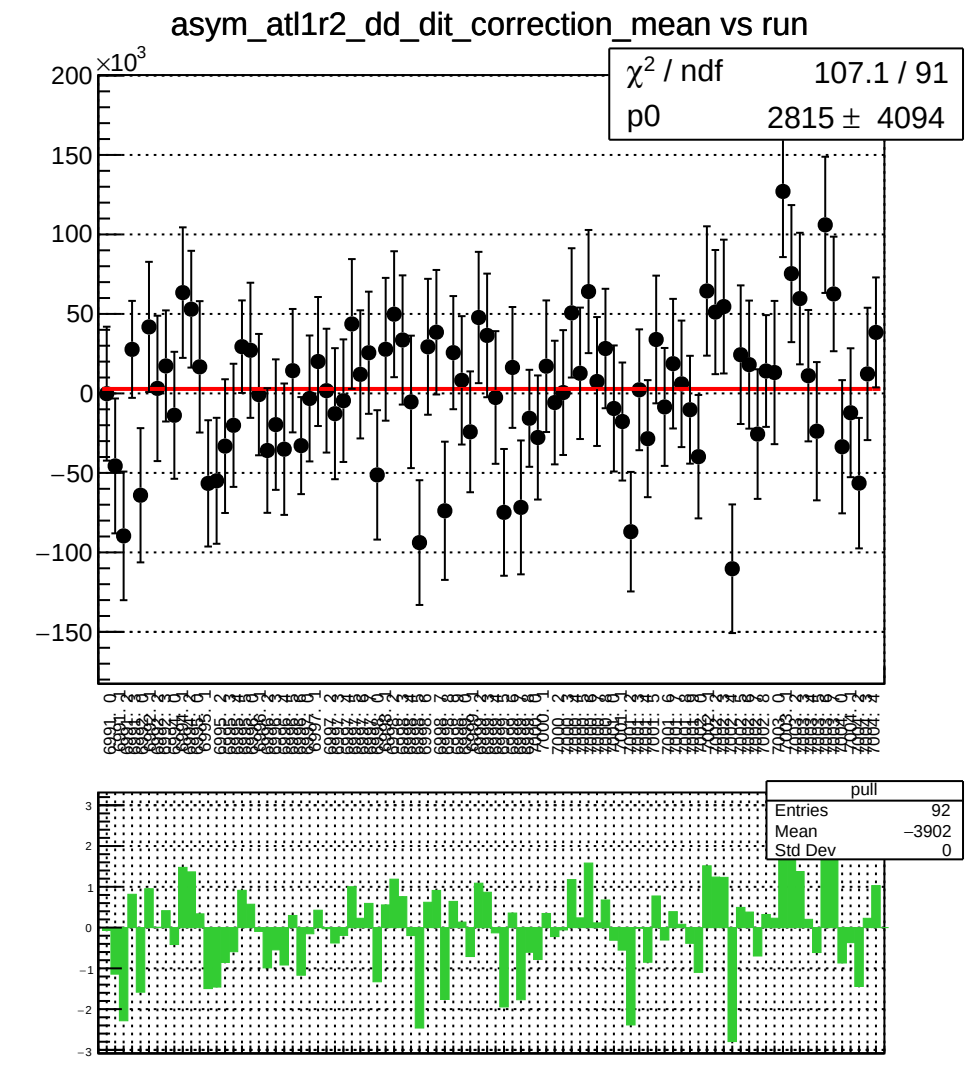

pull1D
Entries 92
Mean −0.002528
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

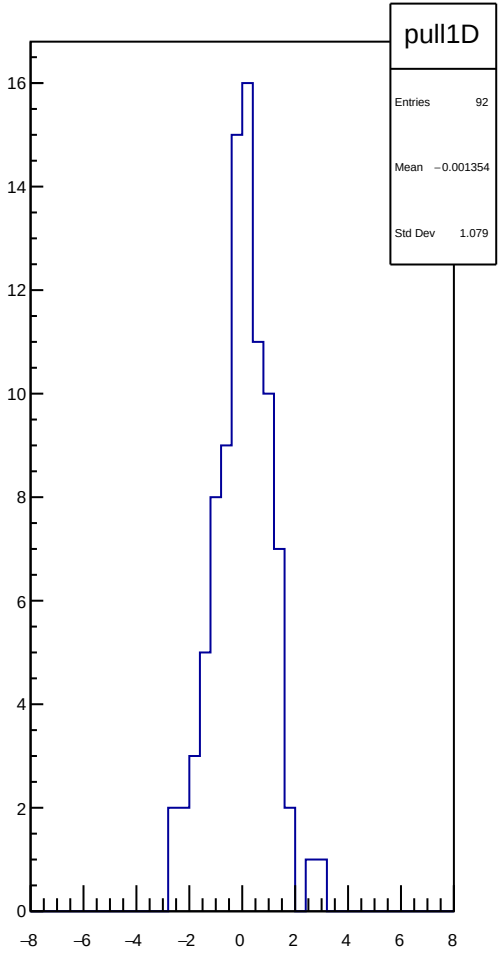

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3312 / 91
p0 3625 ± 2.731
4200
4000
3800
3600
3400
3200

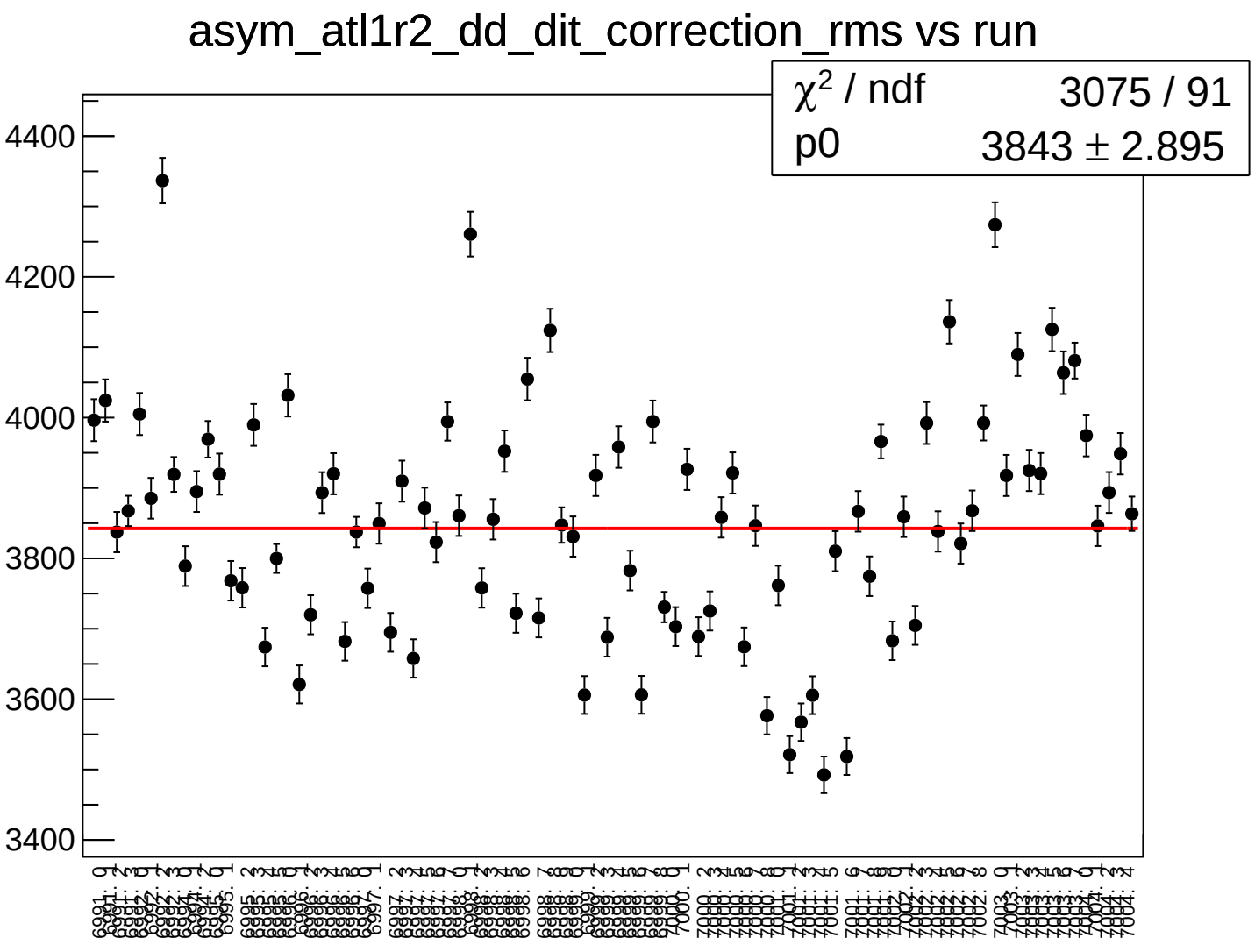

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 87.07 / 91
p0 −1108 ± 1869
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −264.1
Std Dev 0
2
1
0
−1
−2

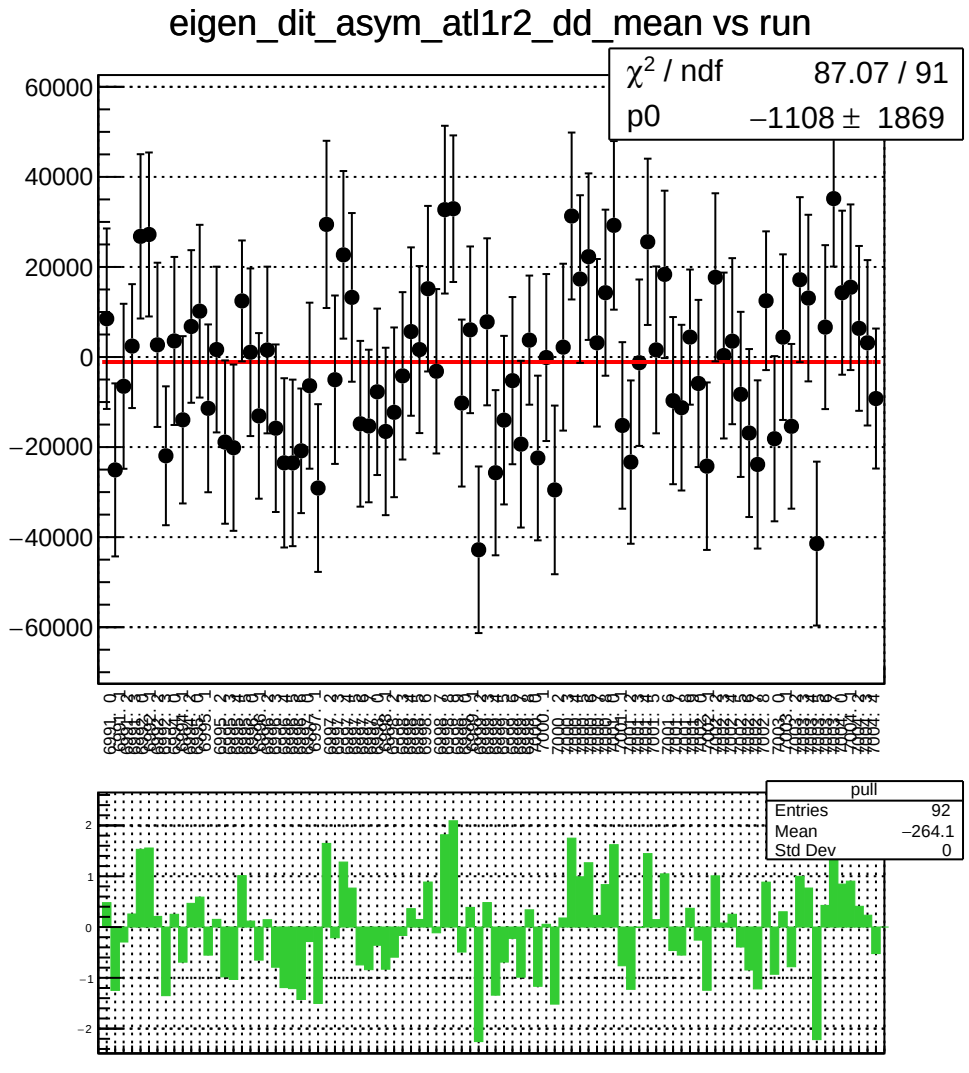

pull1D
Entries 92
Mean −0.008142
Std Dev 0.9728
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

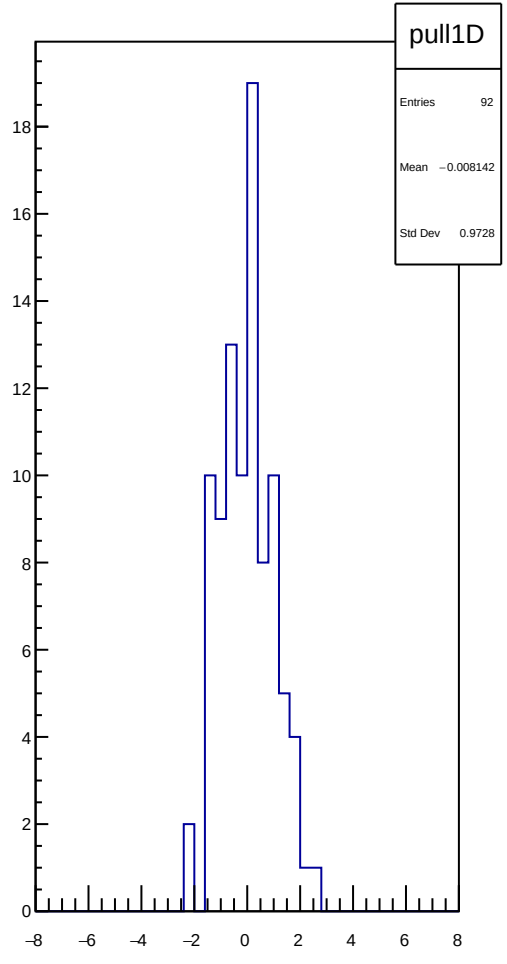

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 329.4 / 91
p0 1756 ± 1.322
1900
1850
1800
1750
1700

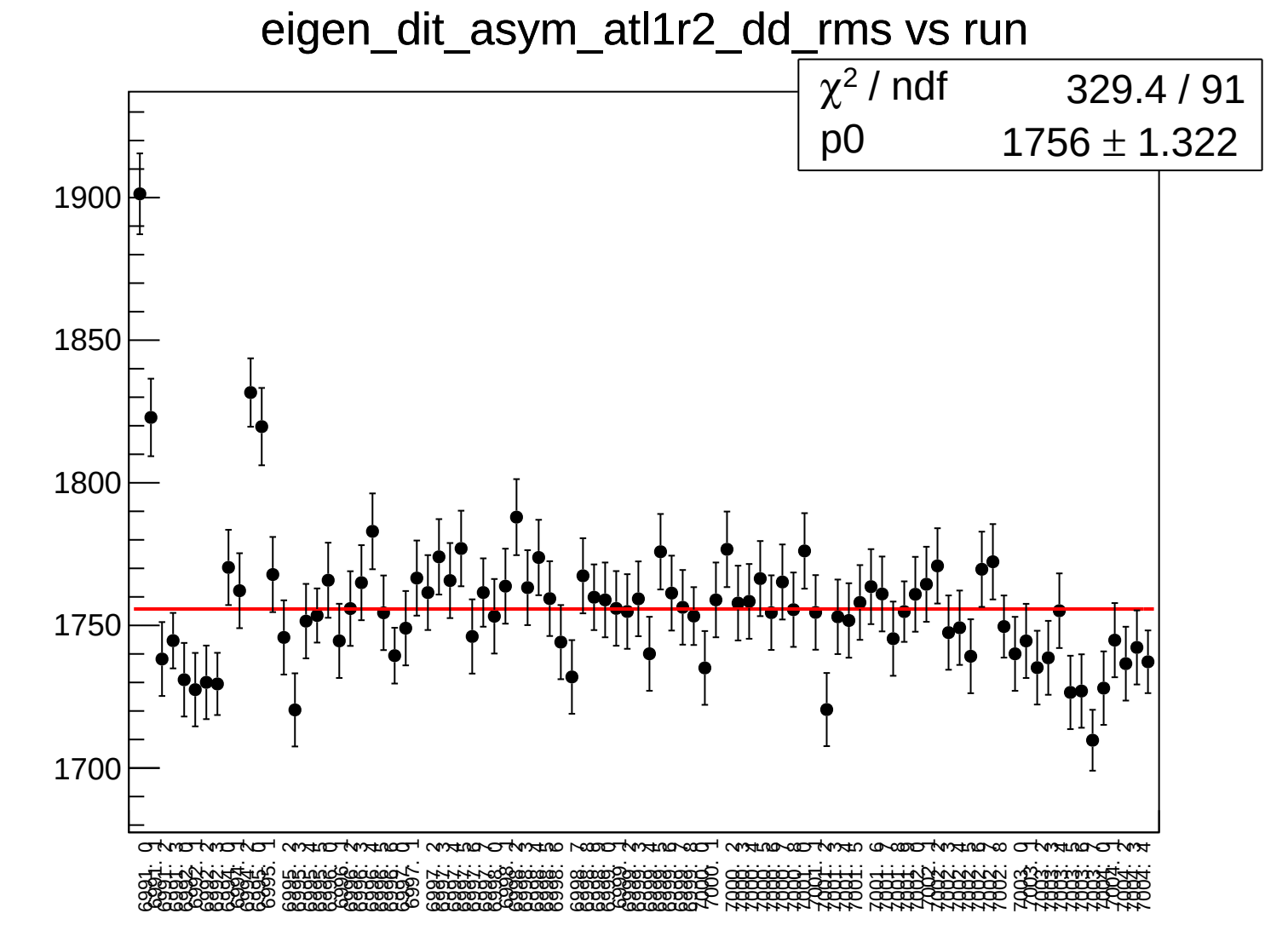

asym_atl1r2_dd_dit_correction_mean vs run
χ² / ndf 107.1 / 91
p0 2815 ± 4094
×10³
pull
Entries 92
Mean −3902
Std Dev 0

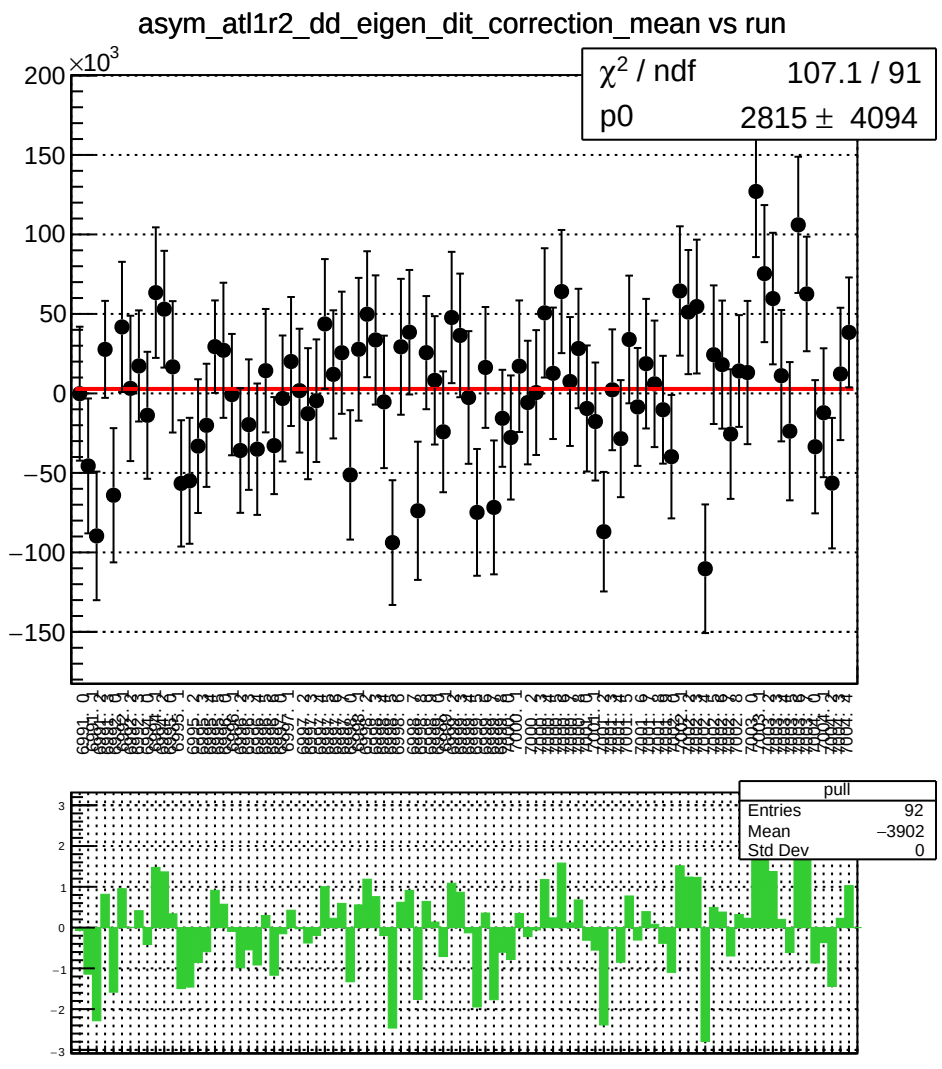

pull1D
Entries 92
Mean −0.001354
Std Dev 1.079

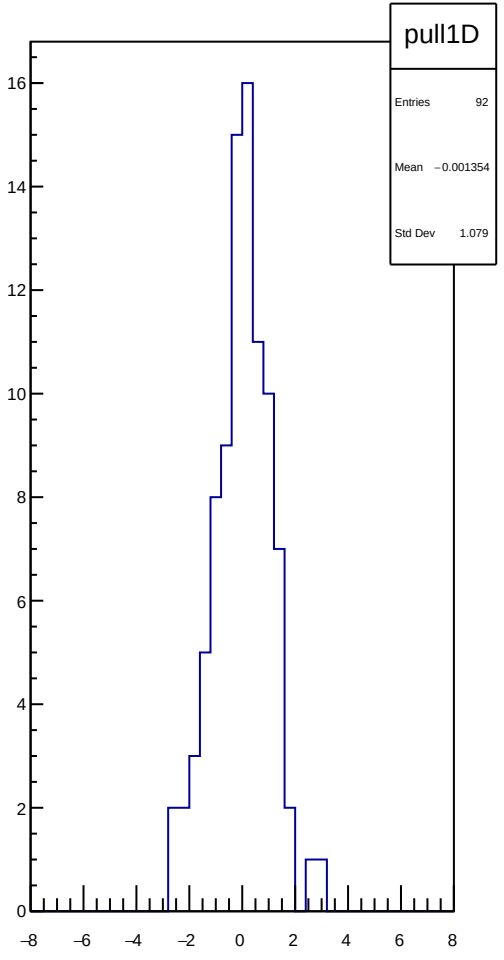

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3075 / 91
p0 3843 ± 2.895
4400
4200
4000
3800
3600
3400

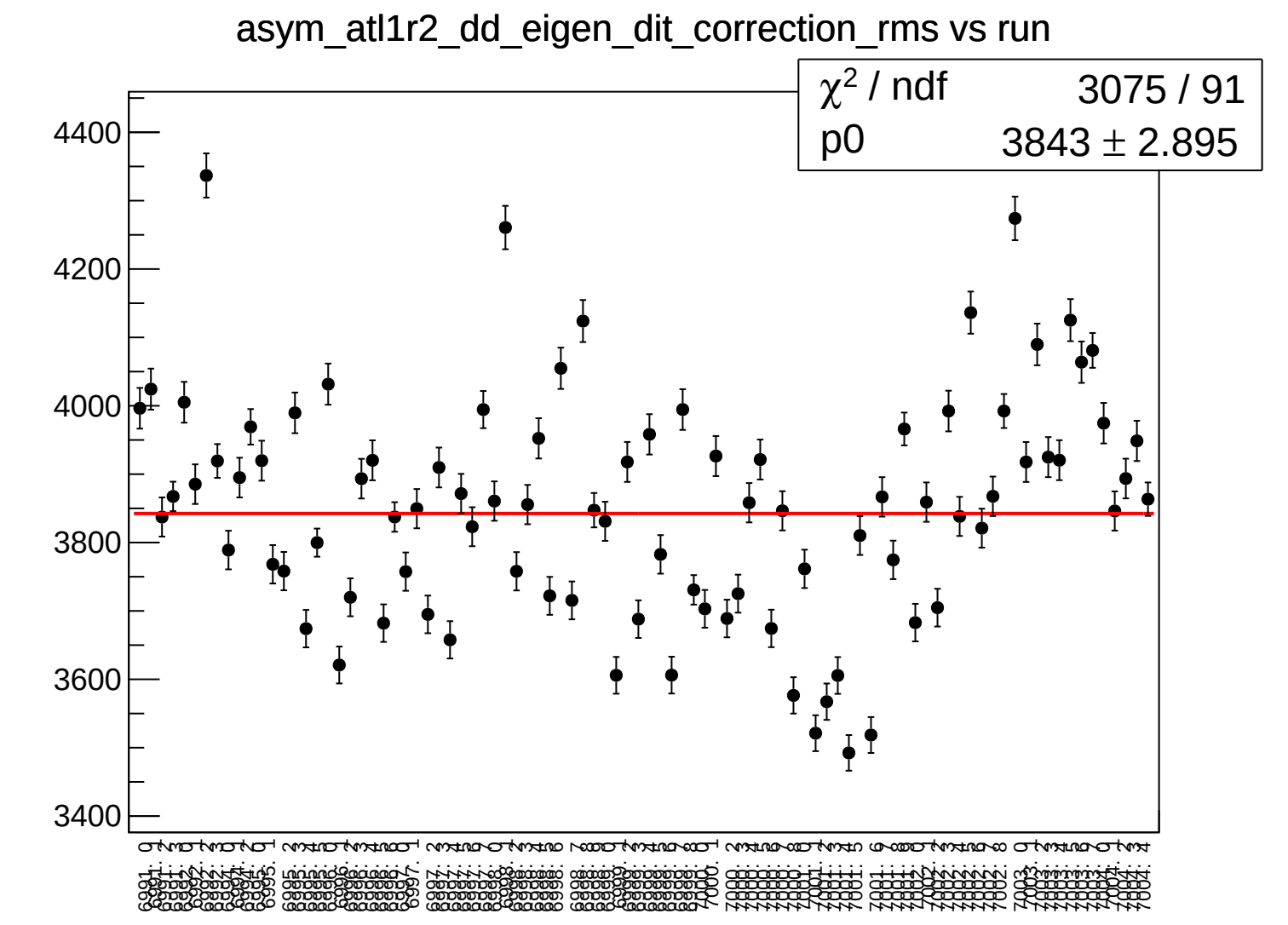

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 87.07 / 91
p0 −1108 ± 1869
pull
Entries 92
Mean −264.1
Std Dev 0

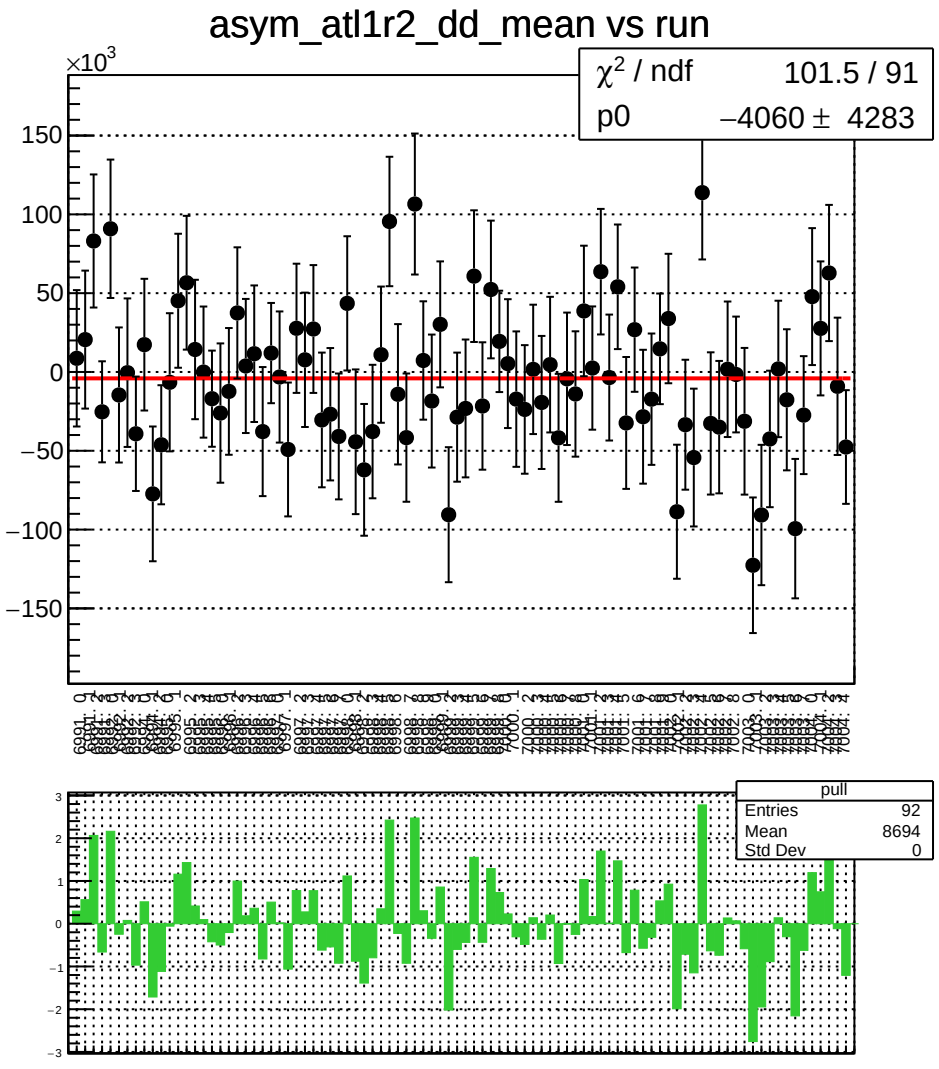

pull1D
Entries 92
Mean −0.008142
Std Dev 0.9728

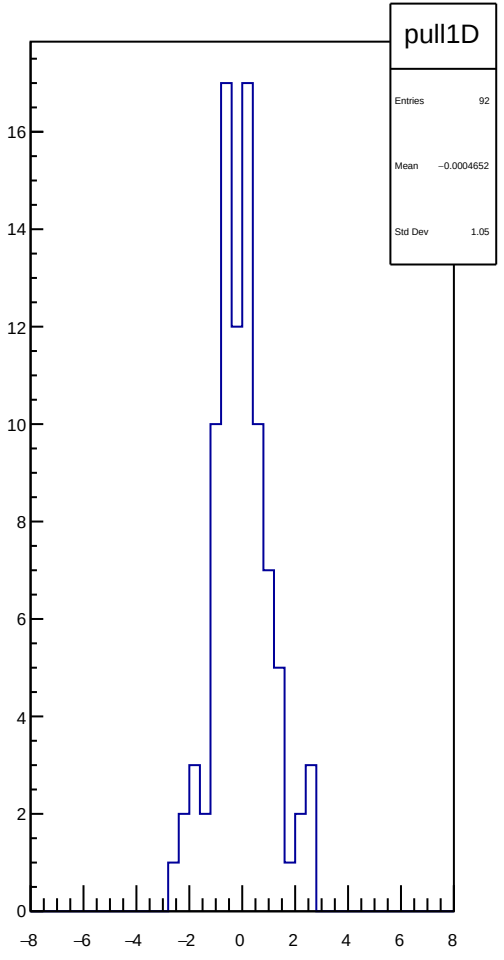

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 329.4 / 91
p0 1756 ± 1.322
1900
1850
1800
1750
1700

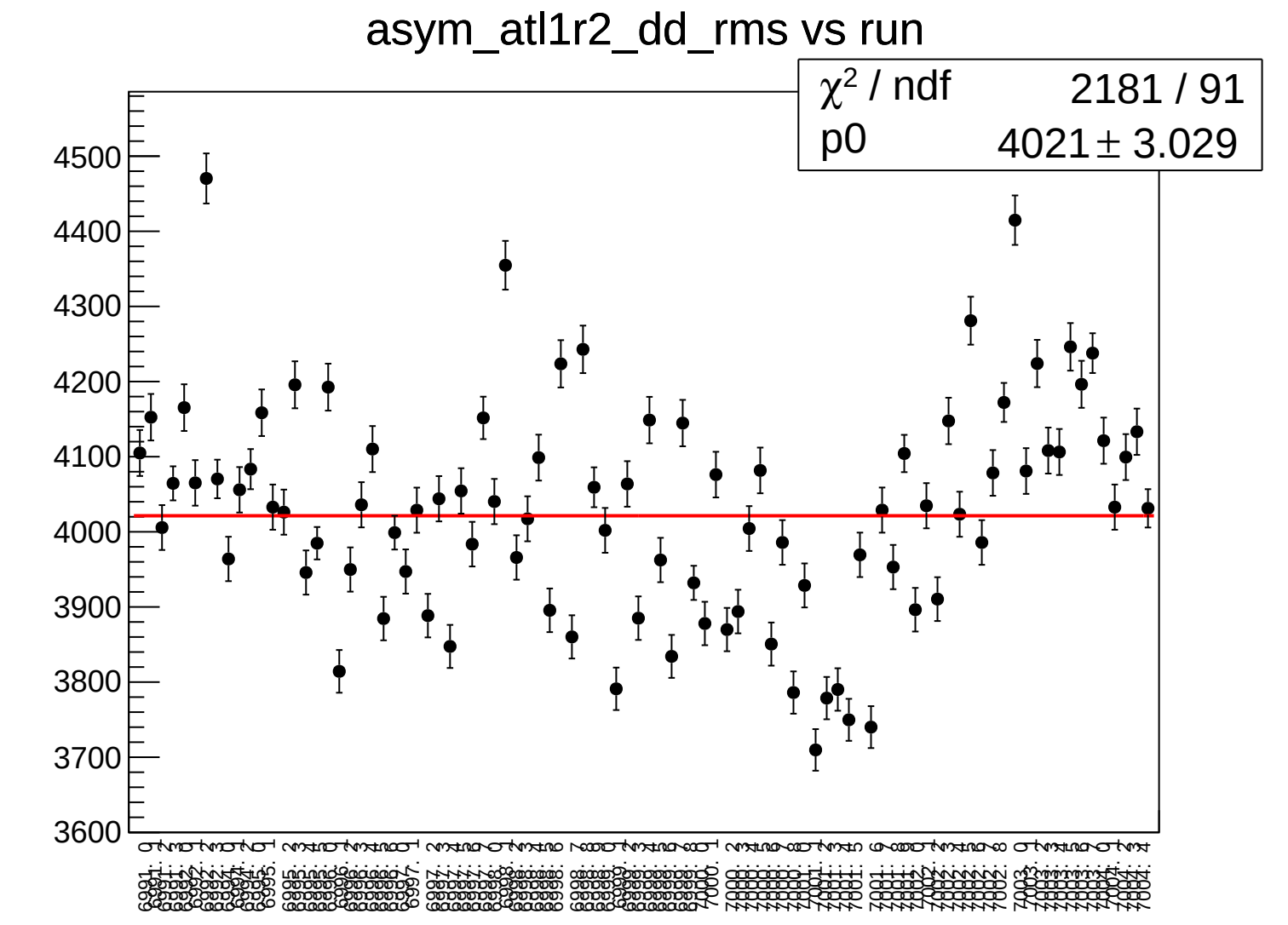

asym_atl1r2_dd_eigen_dit_correction_mean vs run
χ² / ndf 107.1 / 91
p0 2815 ± 4094
×10³
pull
Entries 92
Mean −3902
Std Dev 0

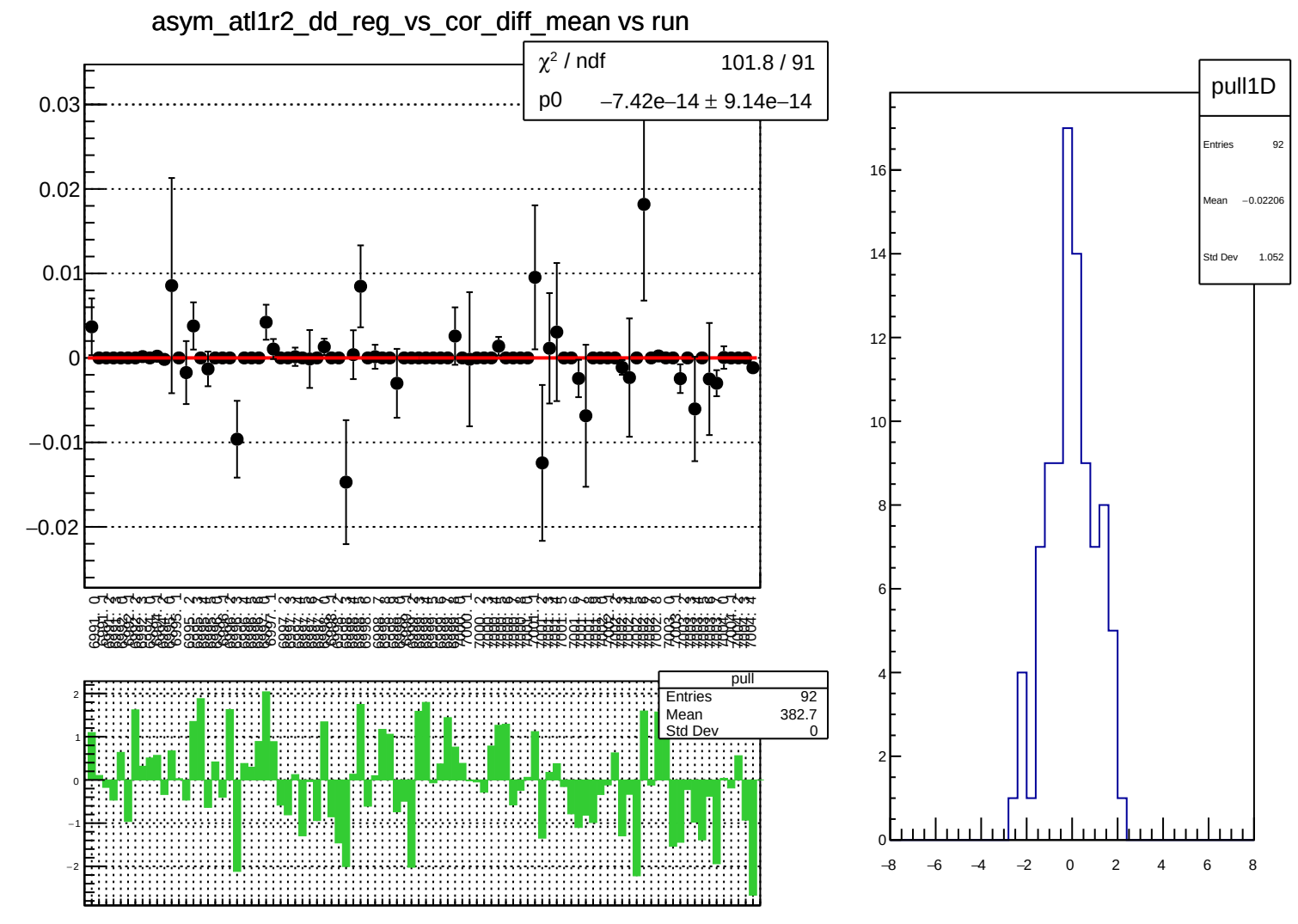

pull1D
Entries 92
Mean −0.001354
Std Dev 1.079

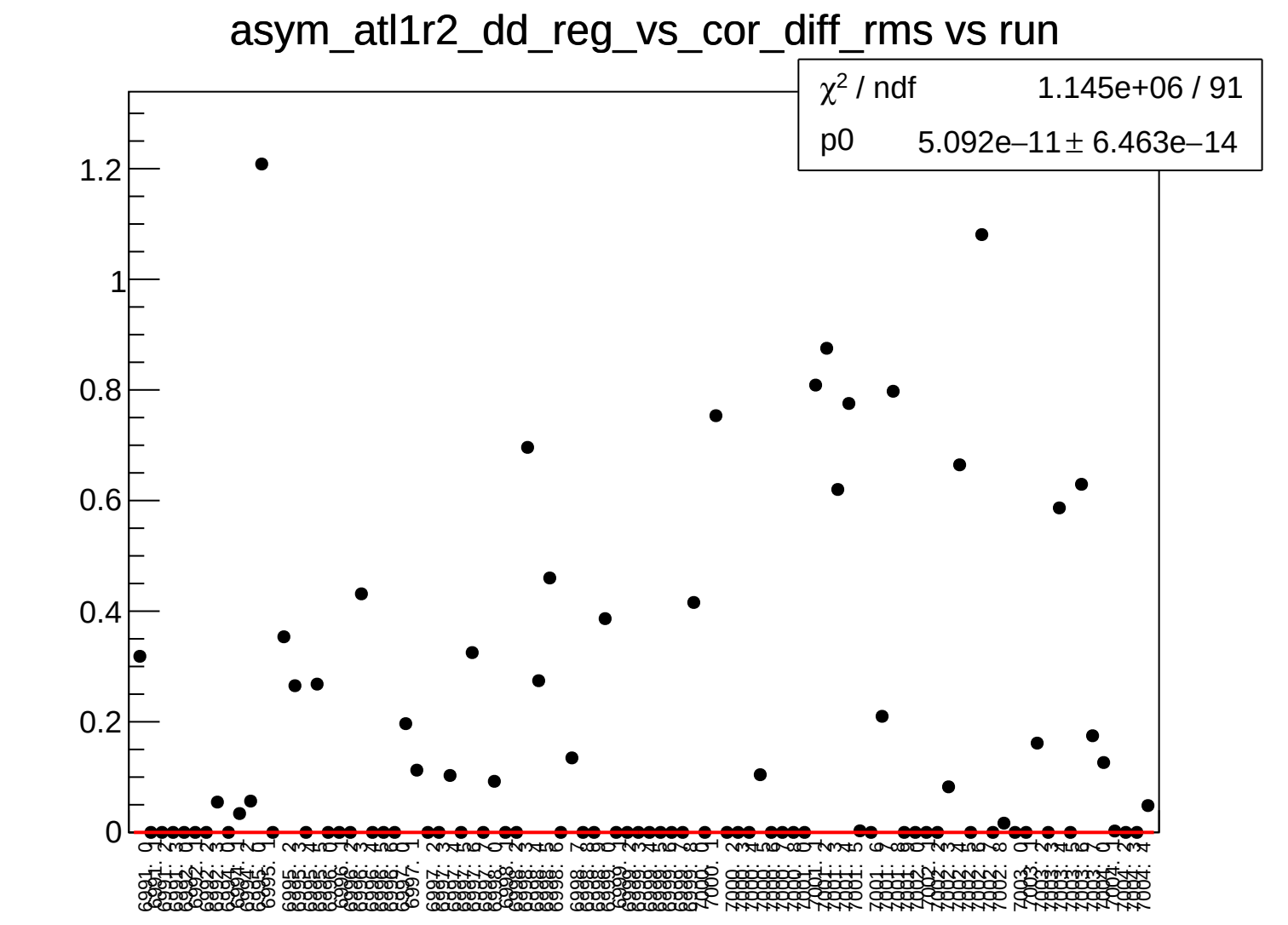

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3075 / 91
p0 3843 ± 2.895
4400
4200
4000
3800
3600
3400

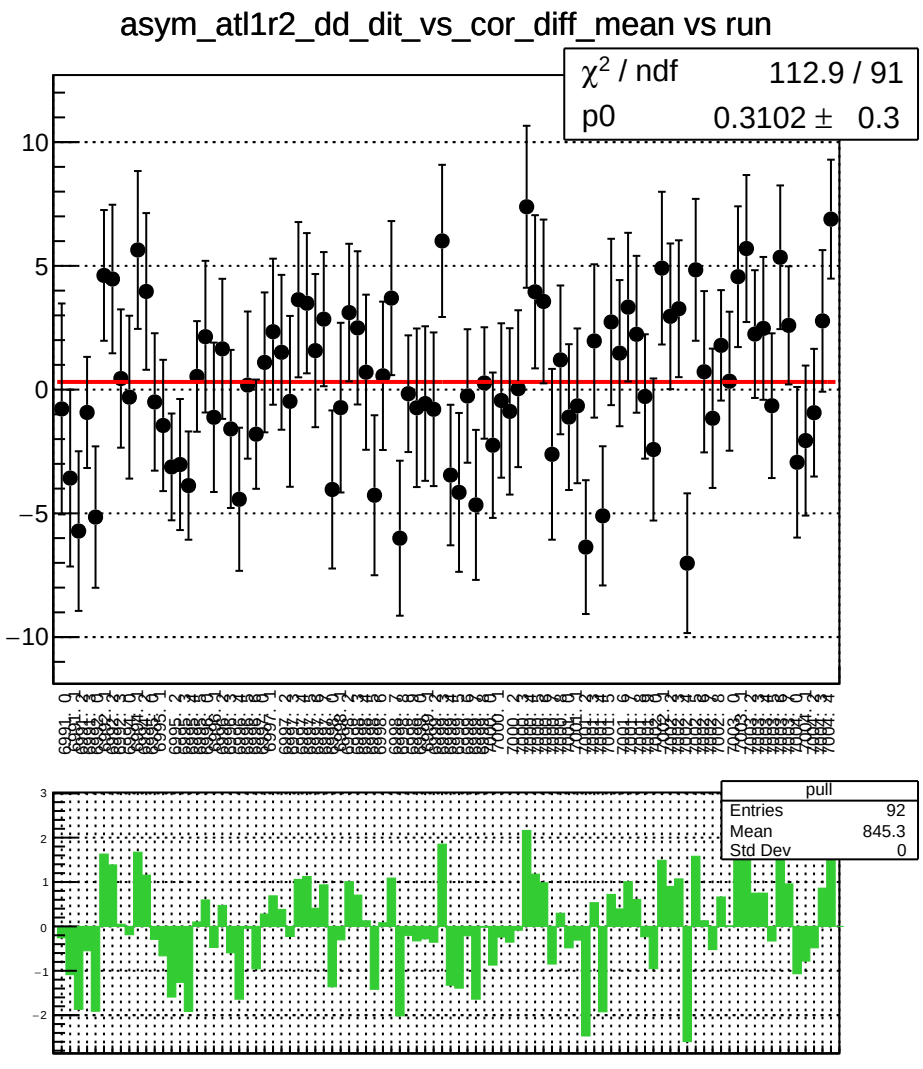

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 101.5 / 91
p0 −4060 ± 4283
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 8694
Std Dev 0
3
2
1
0
−1
−2
−3

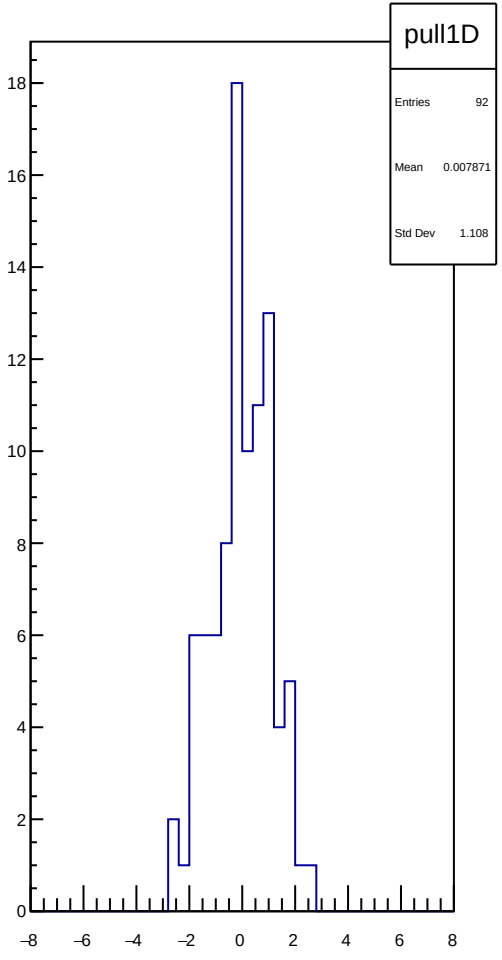

pull1D
Entries 92
Mean −0.0004652
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

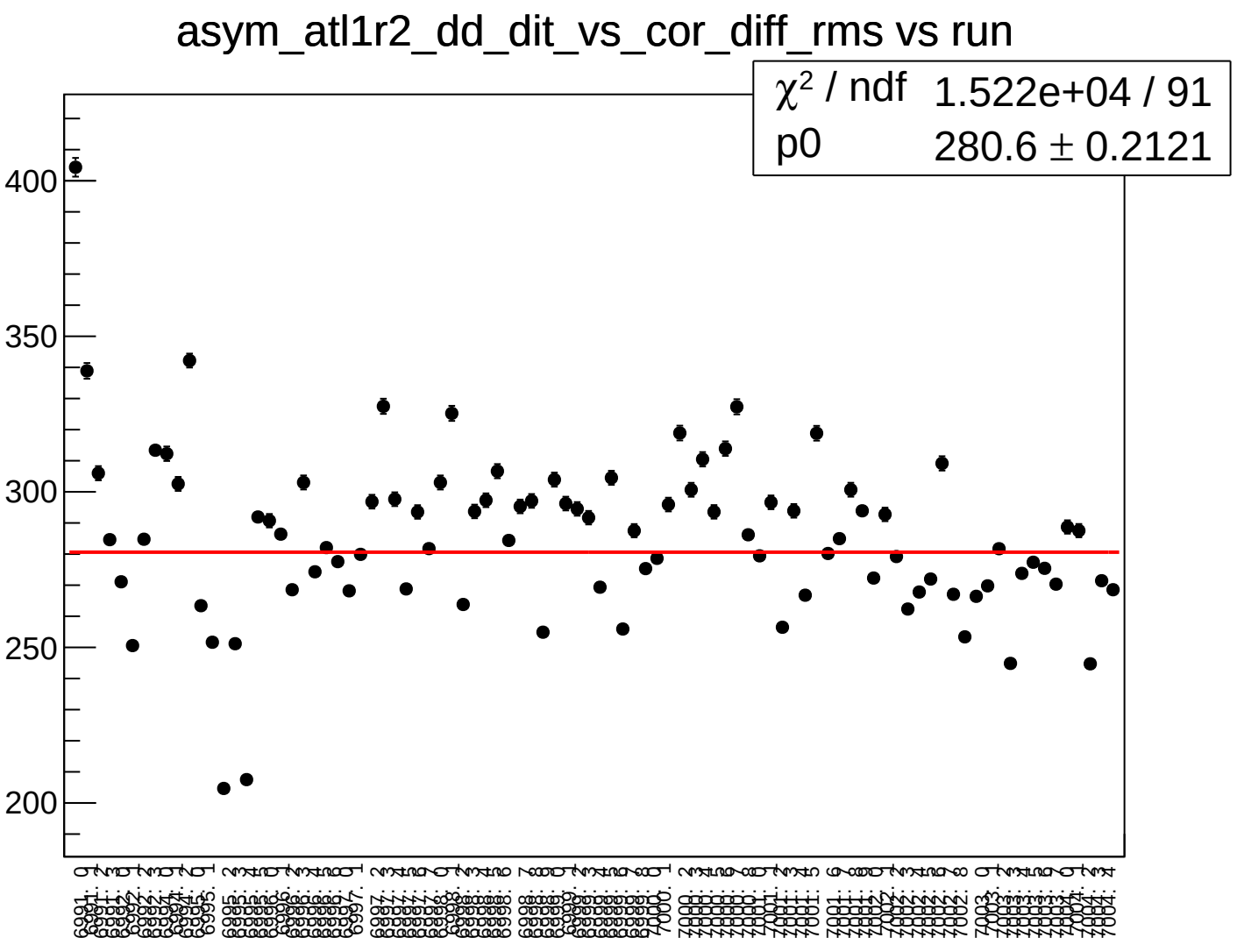

asym_atl1r2_dd_rms vs run
χ² / ndf 2181 / 91
p0 4021 ± 3.029
4500
4400
4300
4200
4100
4000
3900
3800
3700
3600

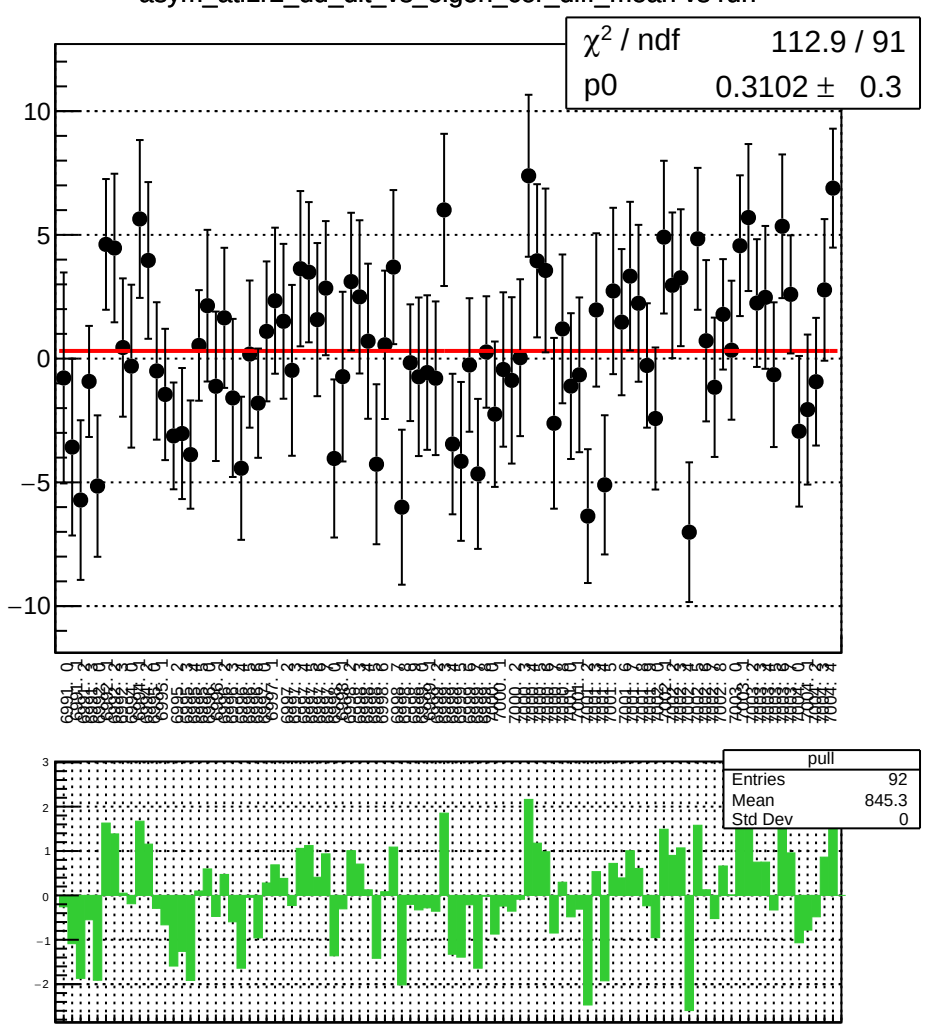

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 91
p0 −7.42e−14 ± 9.14e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 382.7
Std Dev 0
pull1D
Entries 92
Mean −0.02206
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

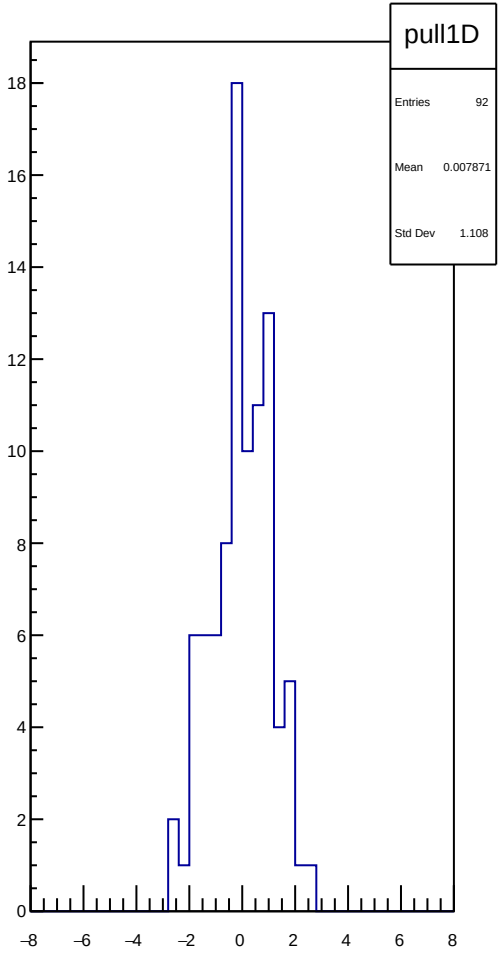

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 91
p0 5.092e−11 ± 6.463e−14
1.2
1
0.8
0.6
0.4
0.2
0

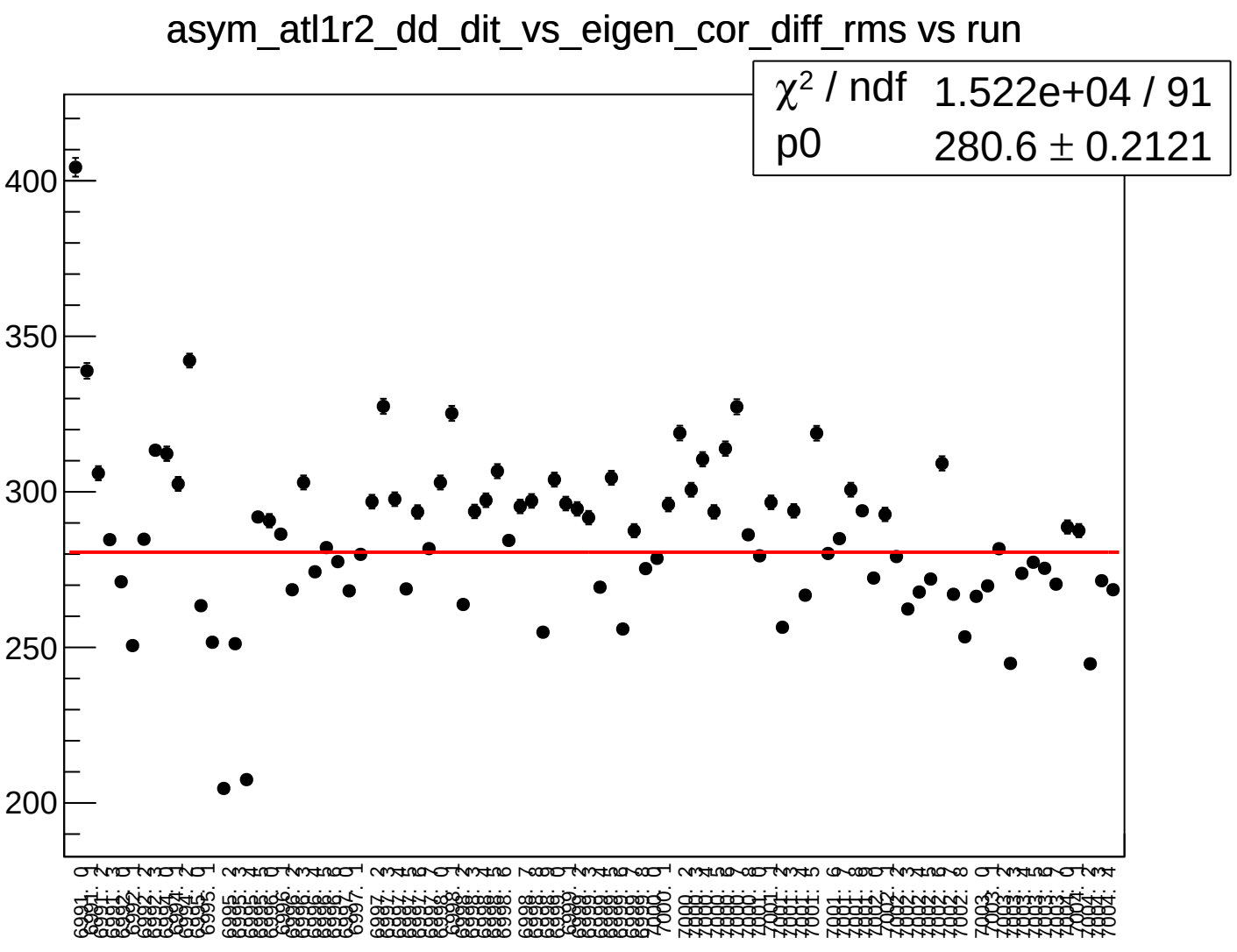

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.9 / 91
p0 0.3102 ± 0.3
pull
Entries 92
Mean 845.3
Std Dev 0

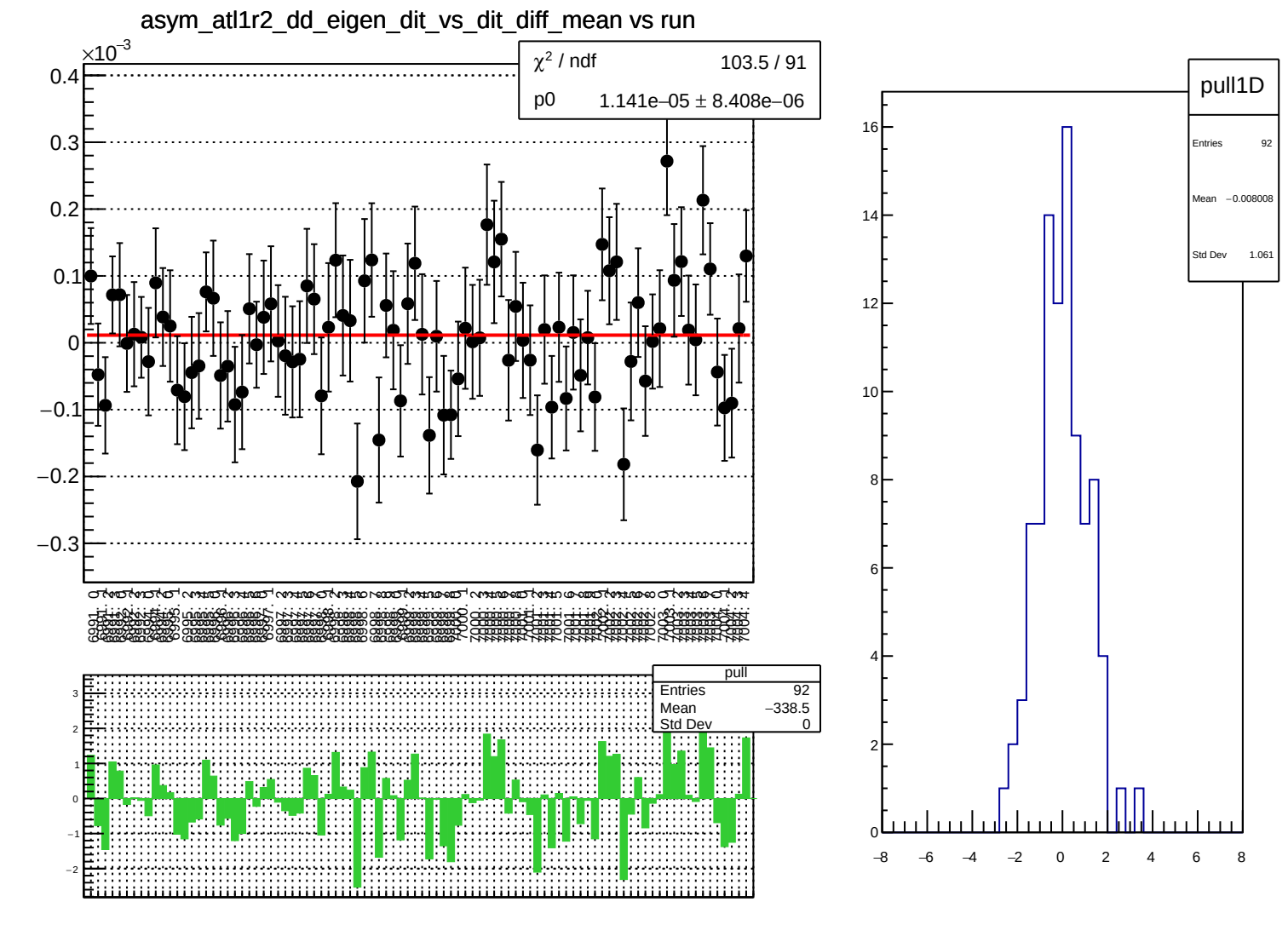

pull1D
Entries 92
Mean 0.007871
Std Dev 1.108

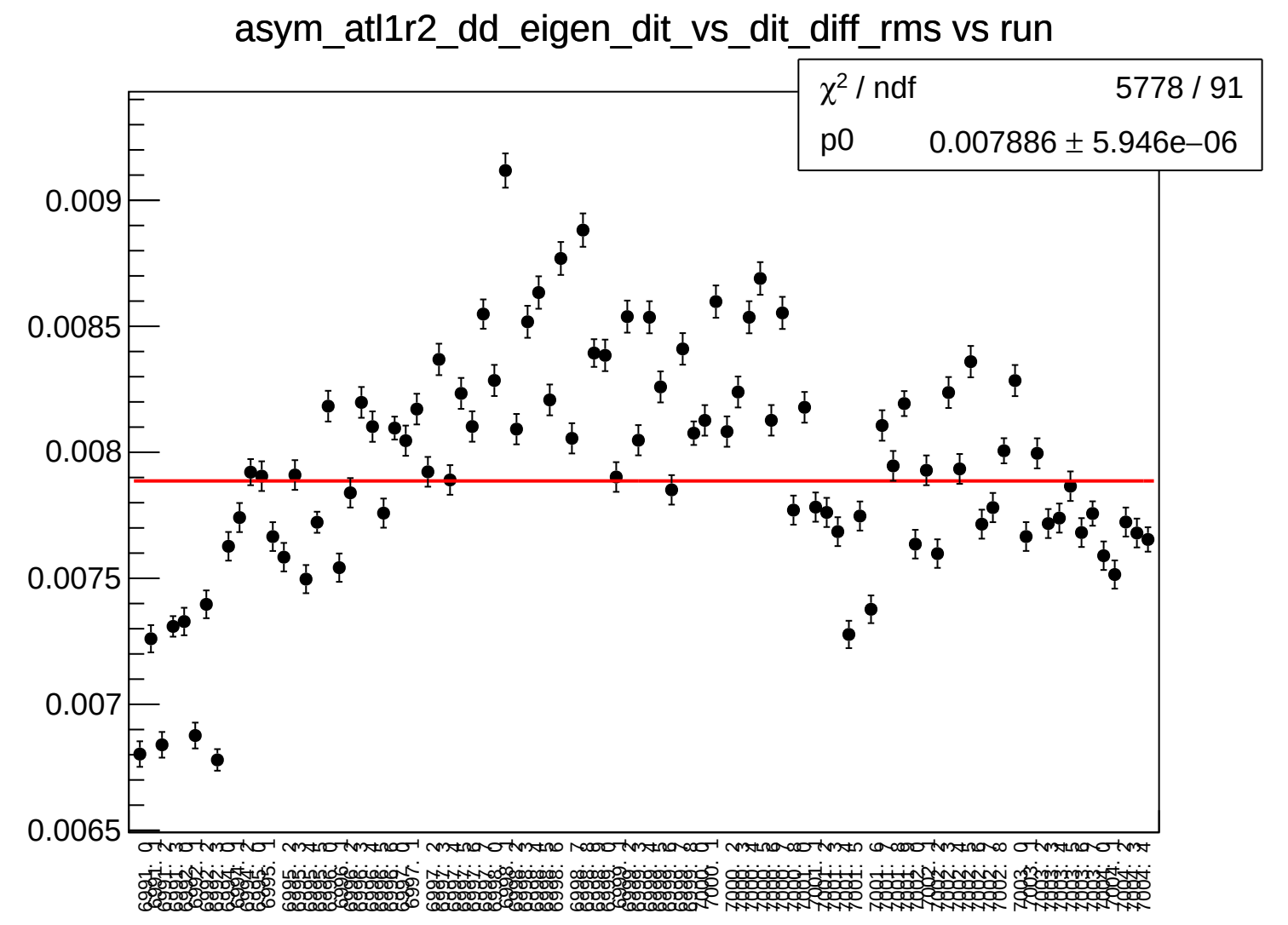

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.522e+04 / 91
p0 280.6 ± 0.2121
400
350
300
250
200

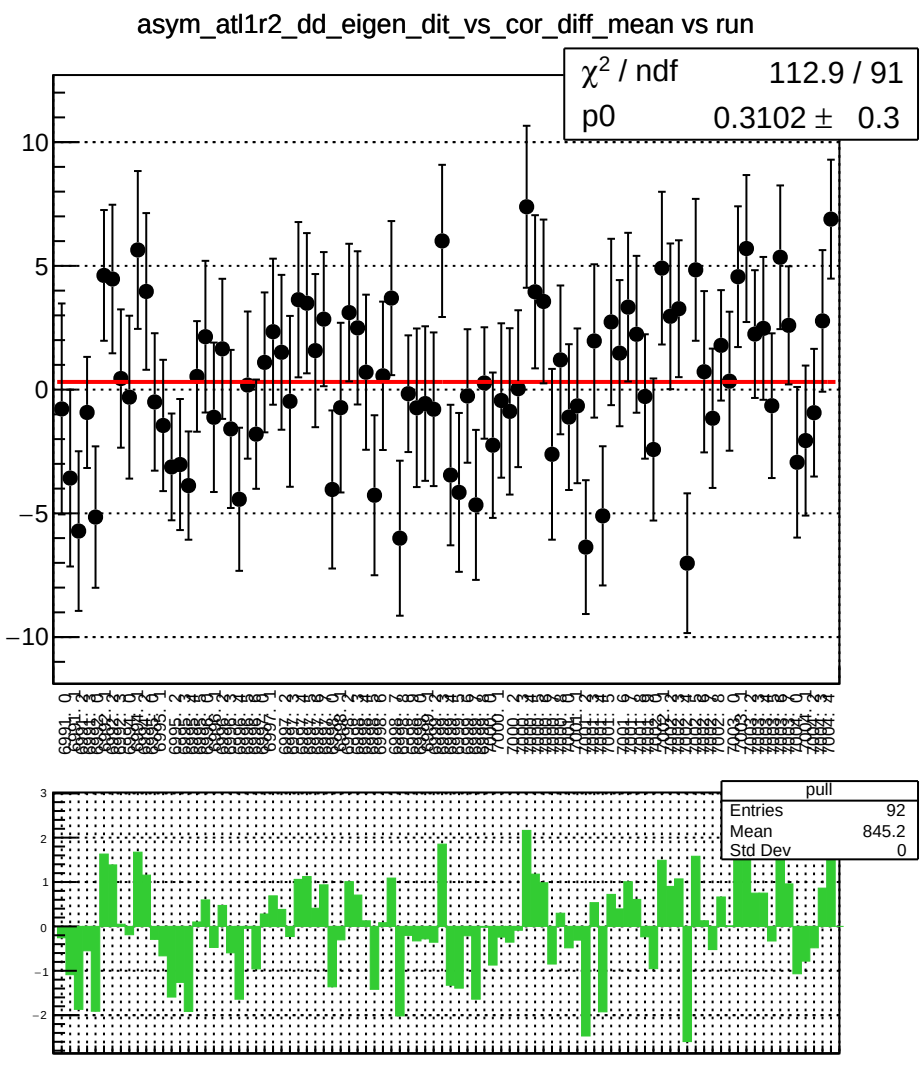

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.9 / 91
p0 0.3102 ± 0.3
pull
Entries 92
Mean 845.3
Std Dev 0

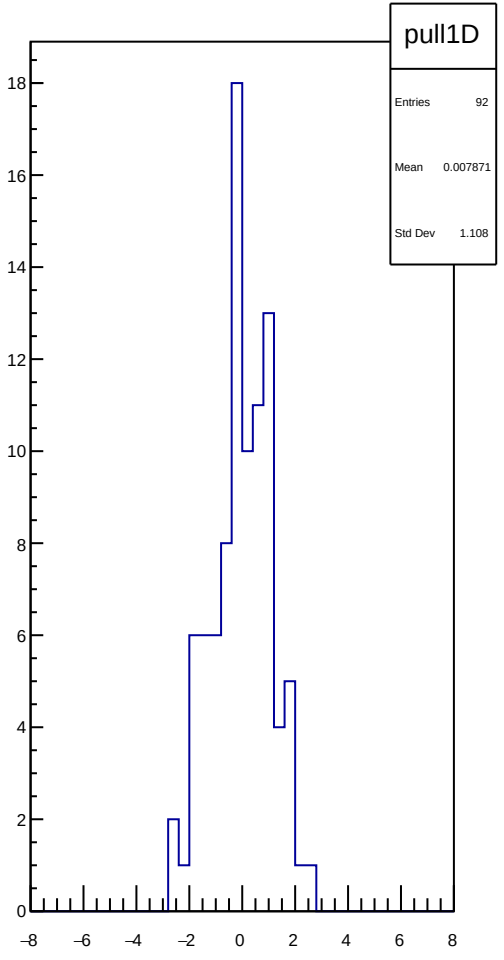

pull1D
Entries 92
Mean 0.007871
Std Dev 1.108

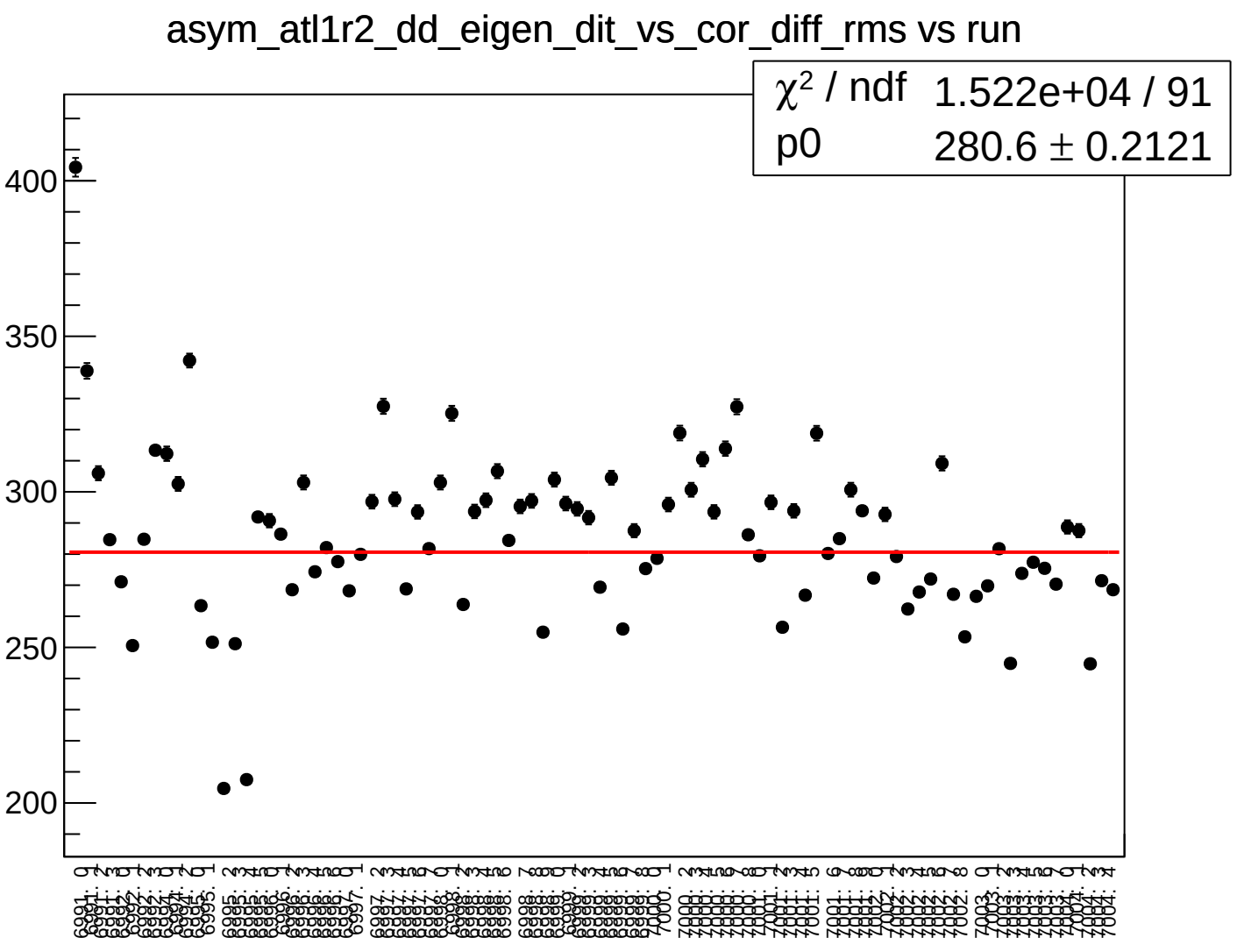

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.522e+04 / 91
p0 280.6 ± 0.2121
400
350
300
250
200

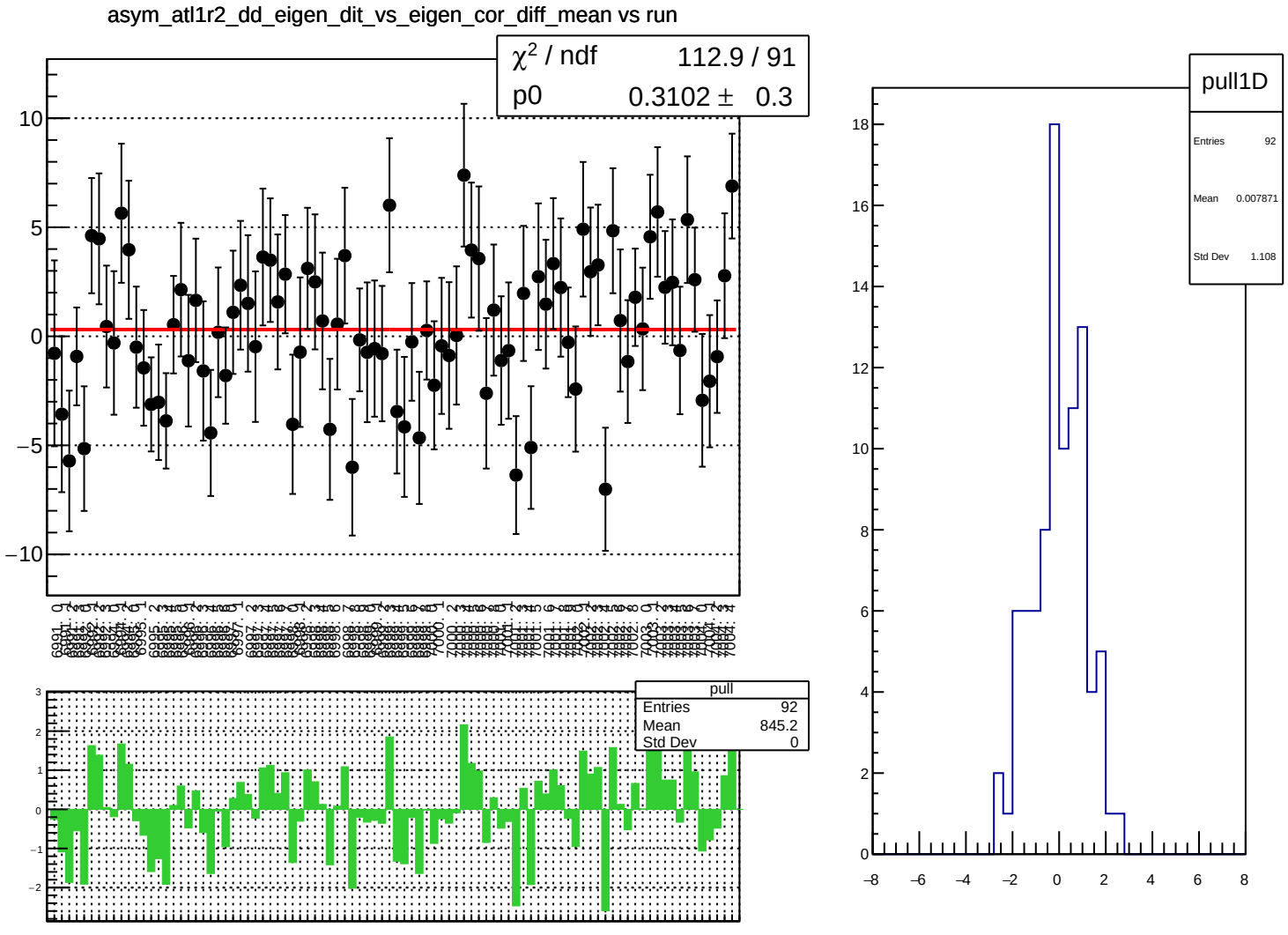

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.5 / 91
p0 1.141e−05 ± 8.408e−06
pull
Entries 92
Mean −338.5
Std Dev 0
pull1D
Entries 92
Mean −0.008008
Std Dev 1.061

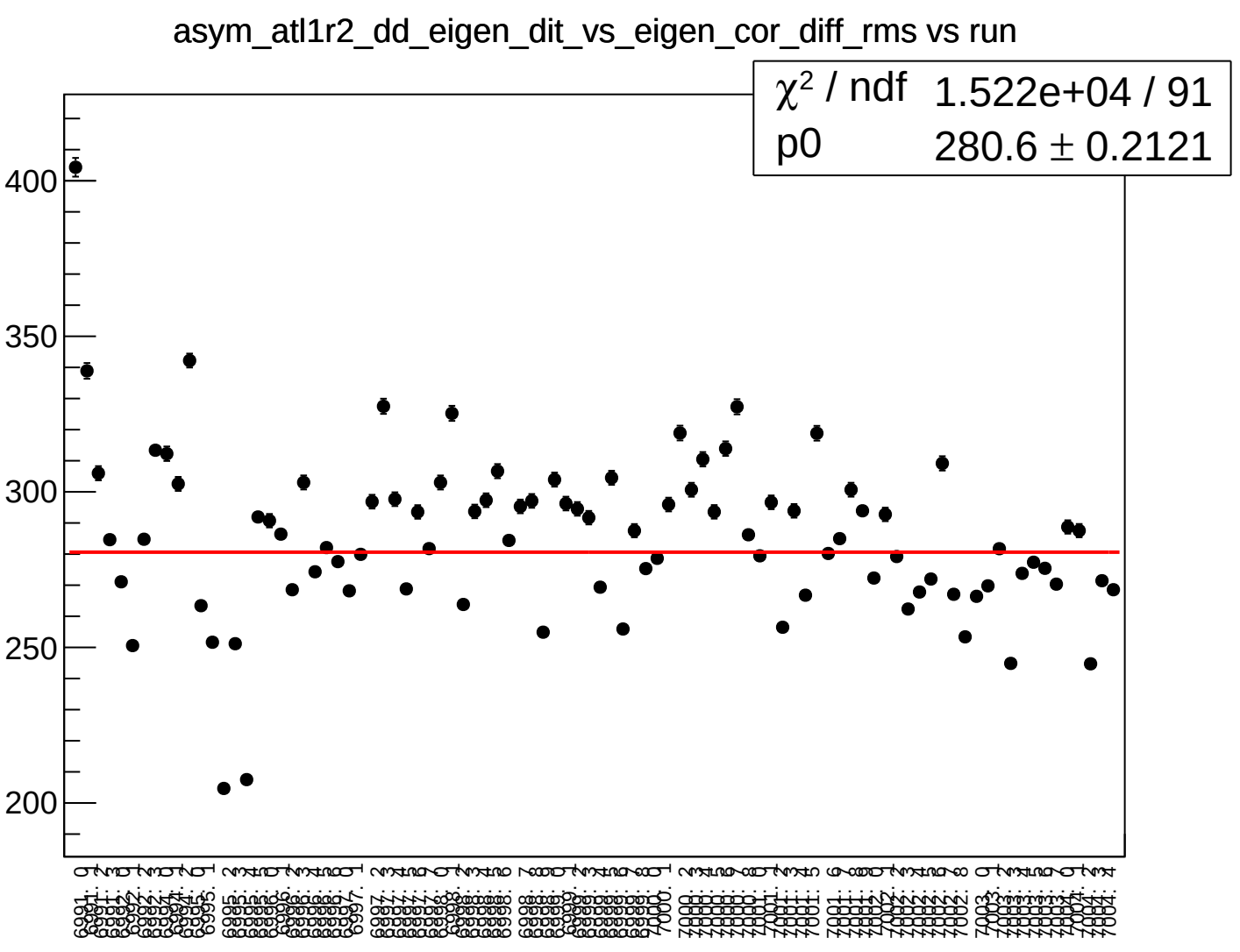

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5778 / 91
p0 0.007886 ± 5.946e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

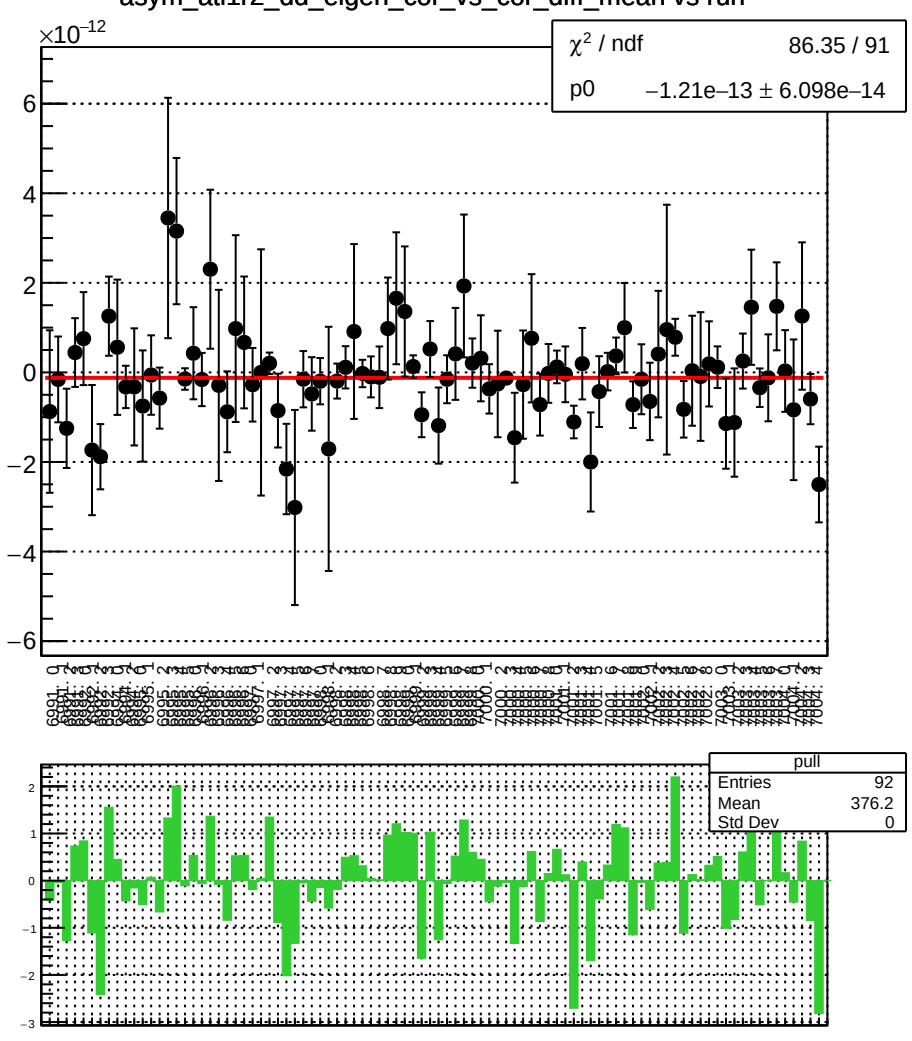

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.9 / 91
p0 0.3102 ± 0.3
pull
Entries 92
Mean 845.2
Std Dev 0

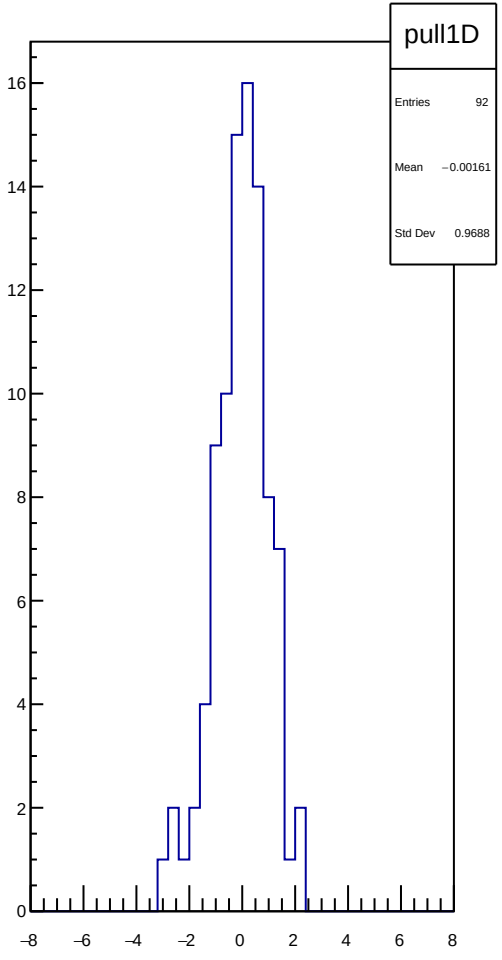

pull1D
Entries 92
Mean 0.007871
Std Dev 1.108

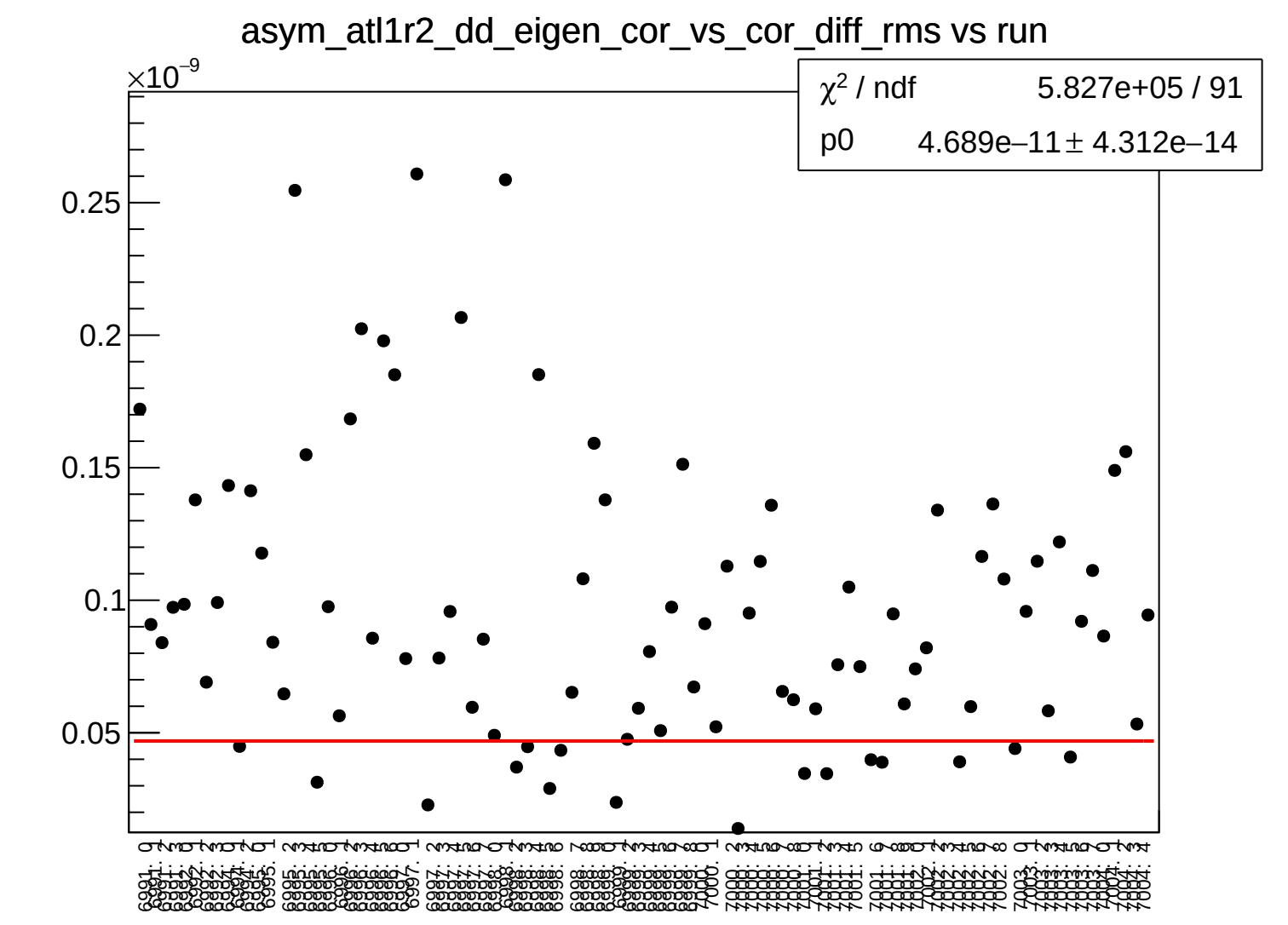

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.522e+04 / 91
p0 280.6 ± 0.2121
400
350
300
250
200

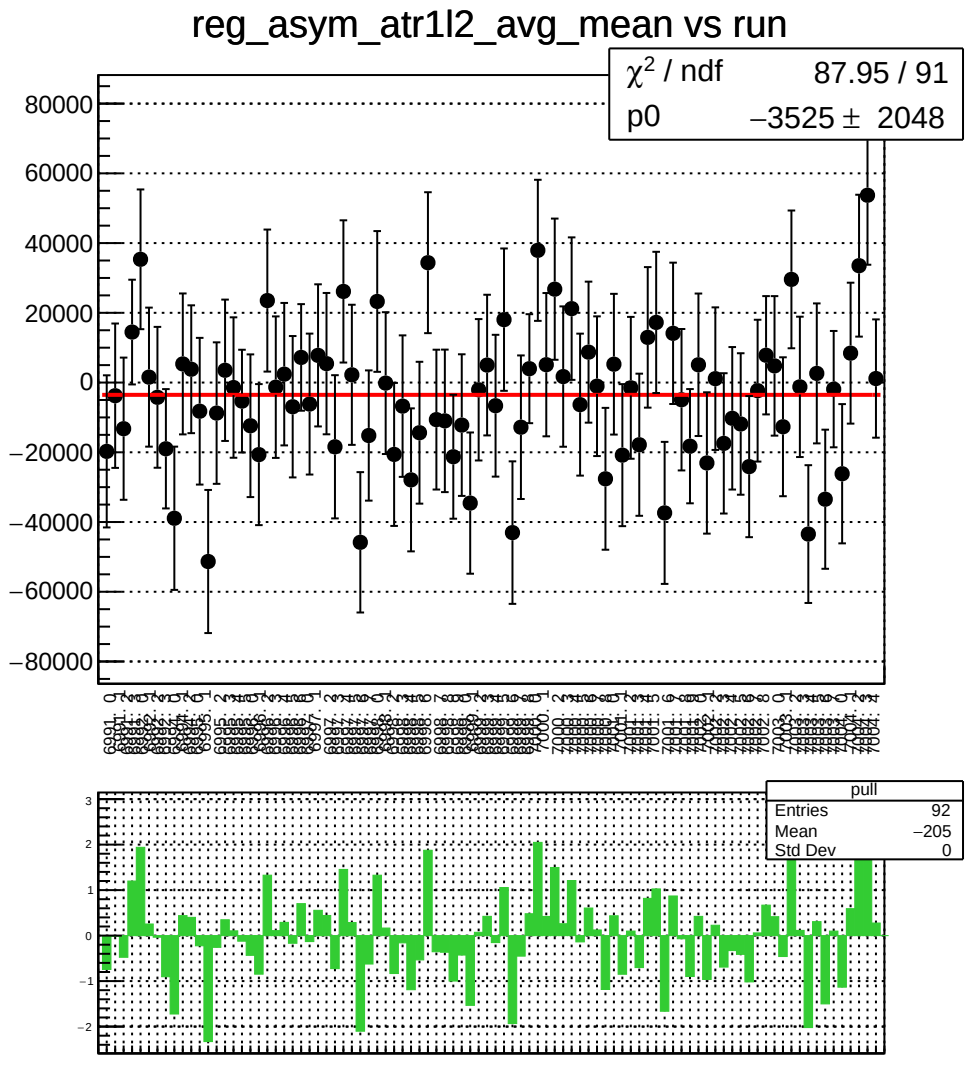

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.9 / 91
p0 0.3102 ± 0.3
pull
Entries 92
Mean 845.2
Std Dev 0
pull1D
Entries 92
Mean 0.007871
Std Dev 1.108

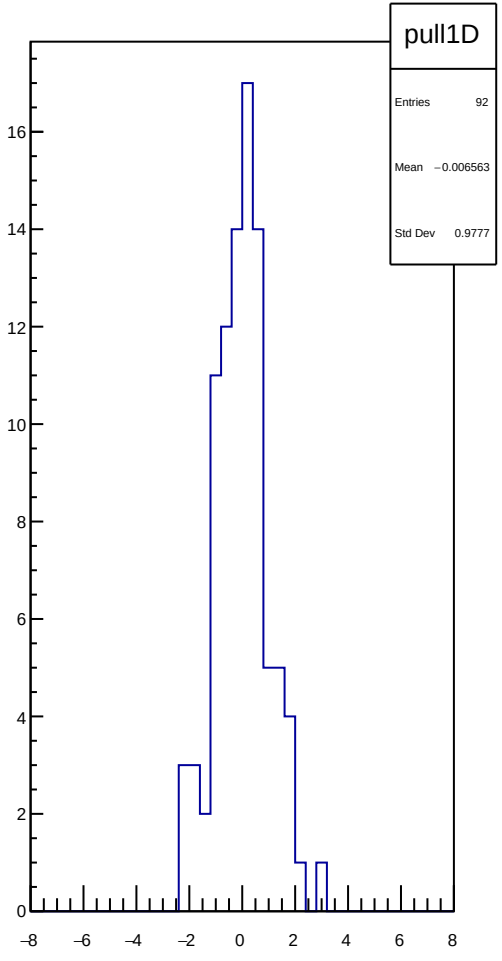

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.522e+04 / 91
p0 280.6 ± 0.2121
400
350
300
250
200

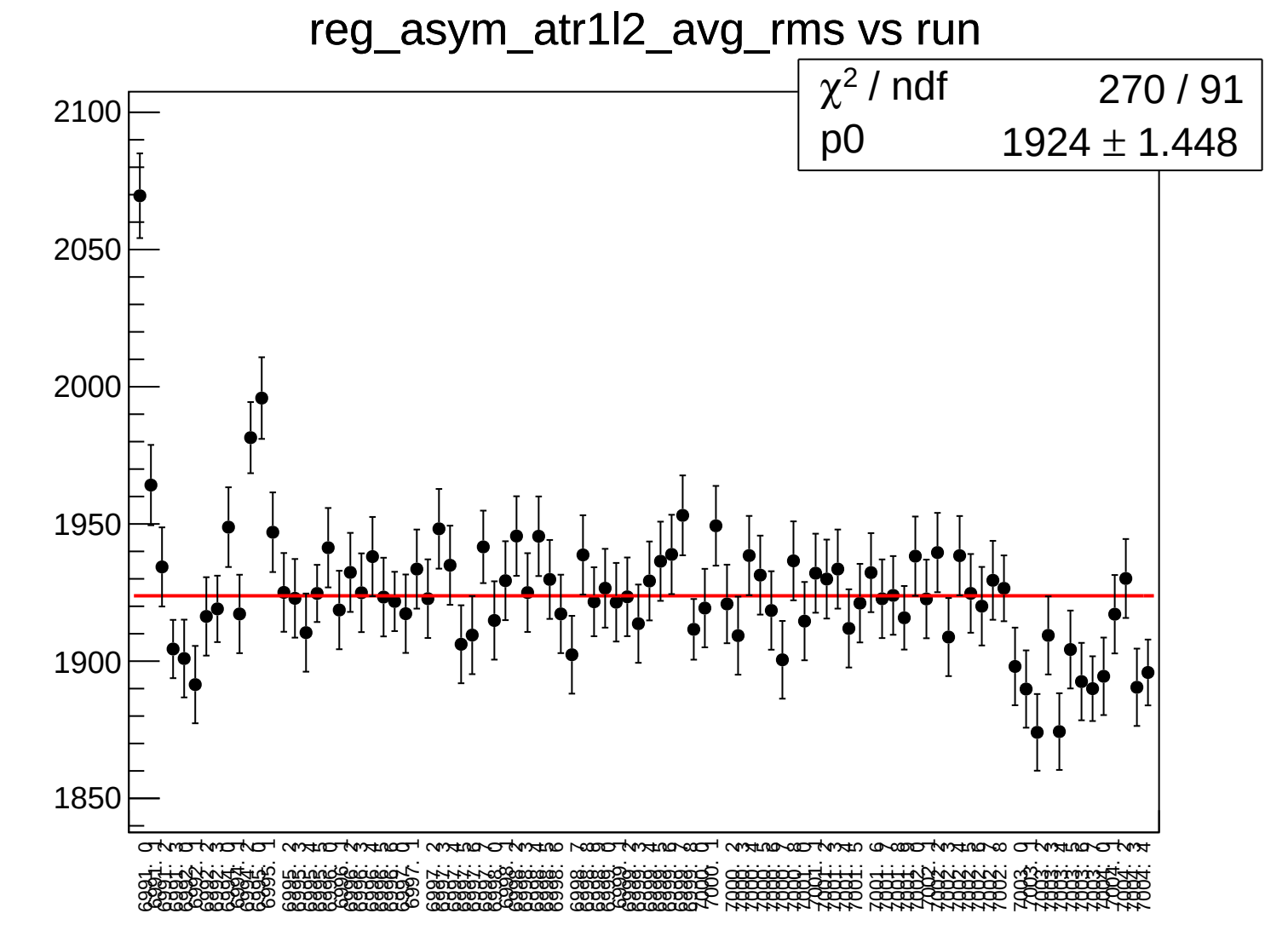

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.35 / 91
p0 −1.21e−13 ± 6.098e−14
pull
Entries 92
Mean 376.2
Std Dev 0

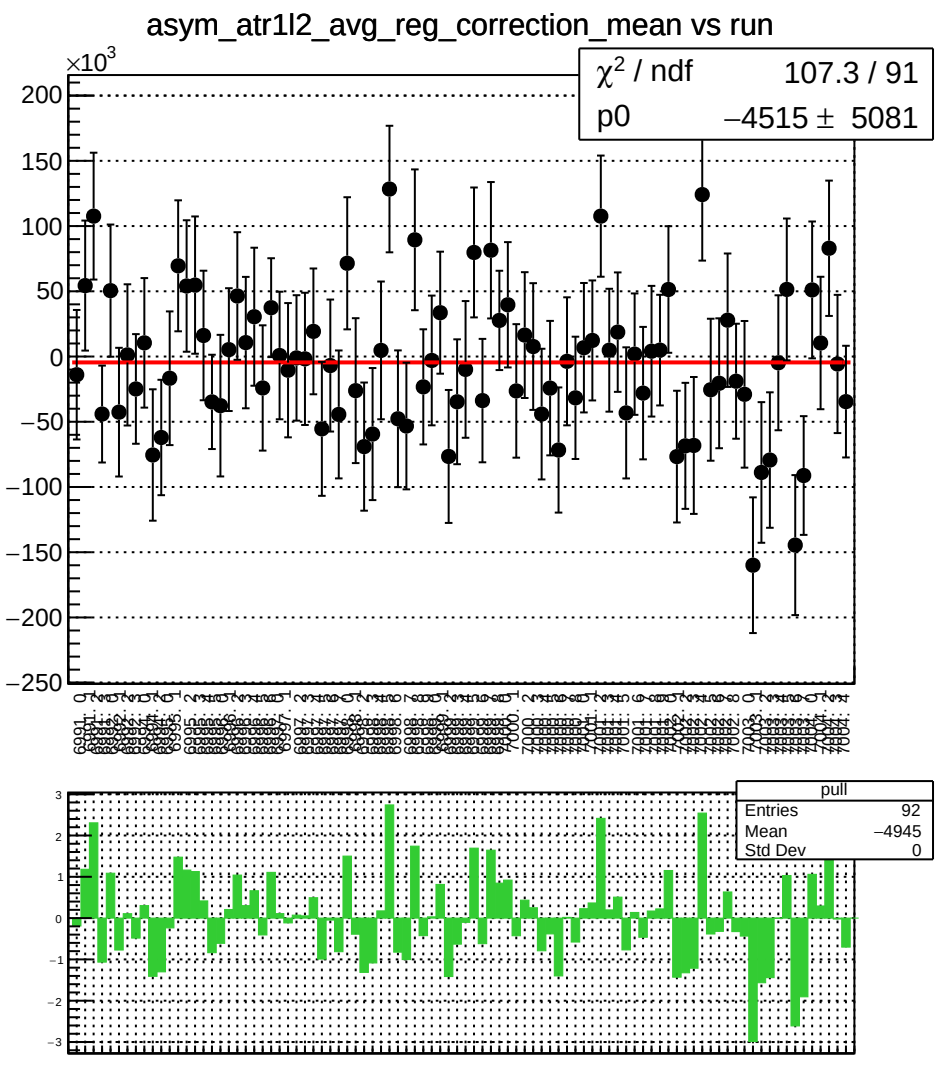

pull1D
Entries 92
Mean −0.00161
Std Dev 0.9688

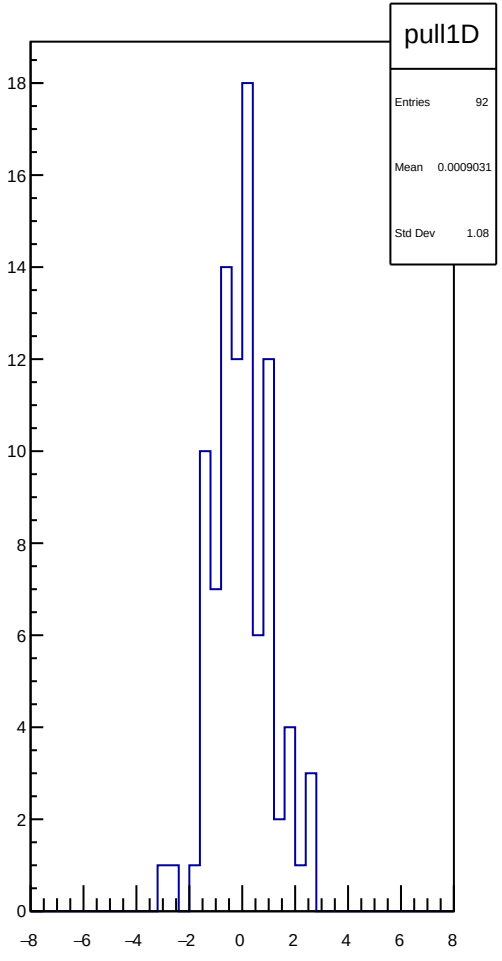

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.827e+05 / 91
p0 4.689e−11 ± 4.312e−14
0.25
0.2
0.15
0.1
0.05

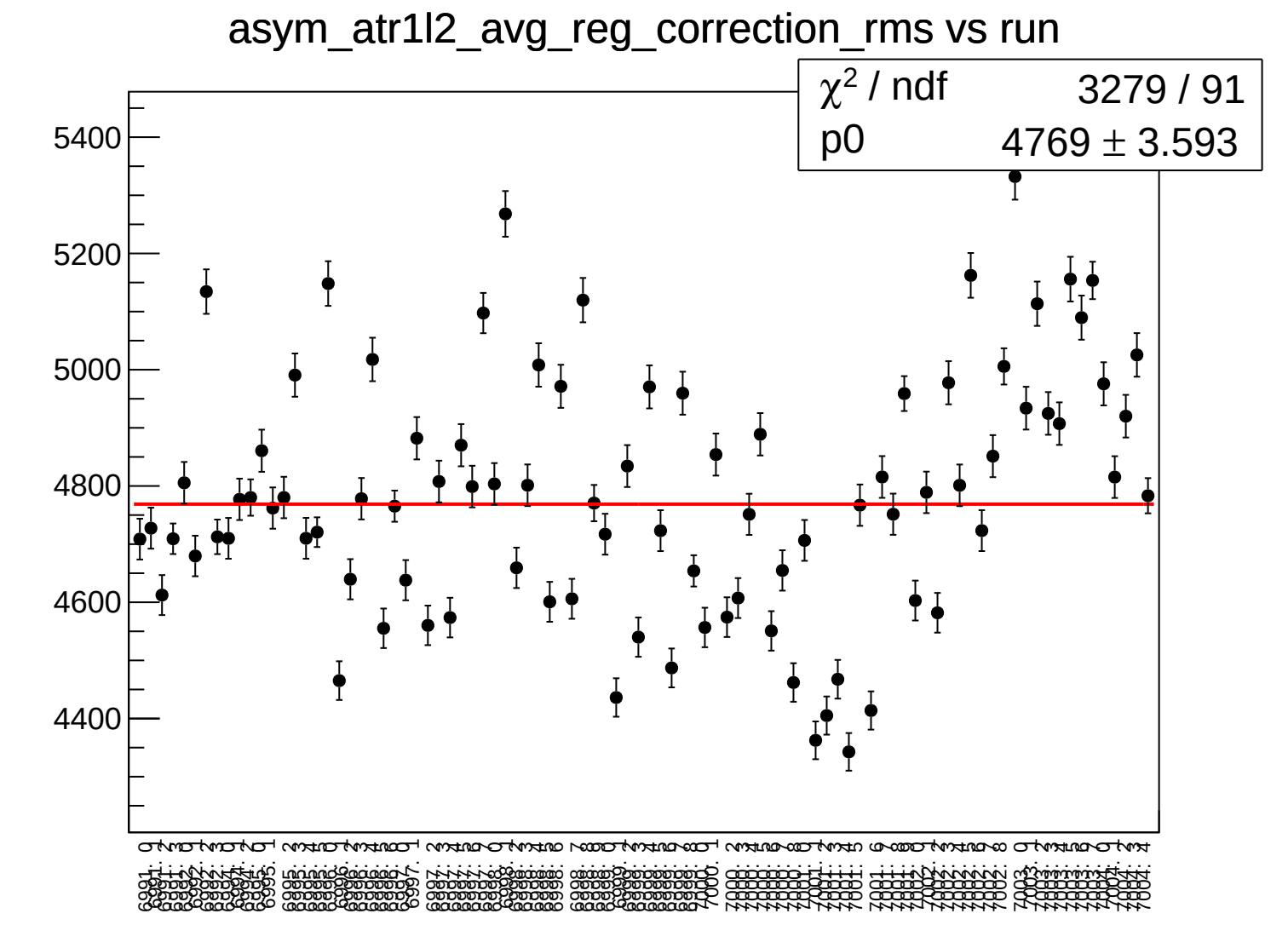

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 87.95 / 91
p0 −3525 ± 2048
pull
Entries 92
Mean −205
Std Dev 0

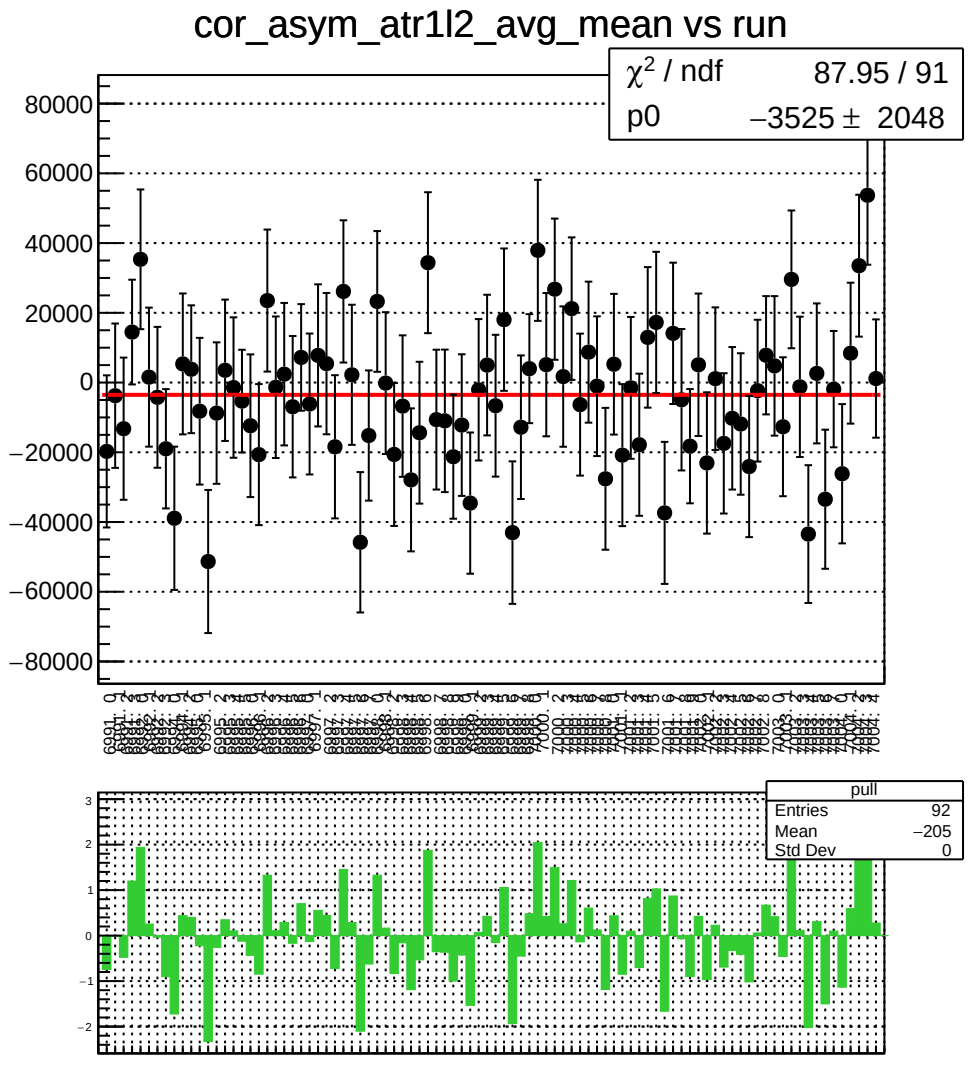

pull1D
Entries 92
Mean −0.006563
Std Dev 0.9777

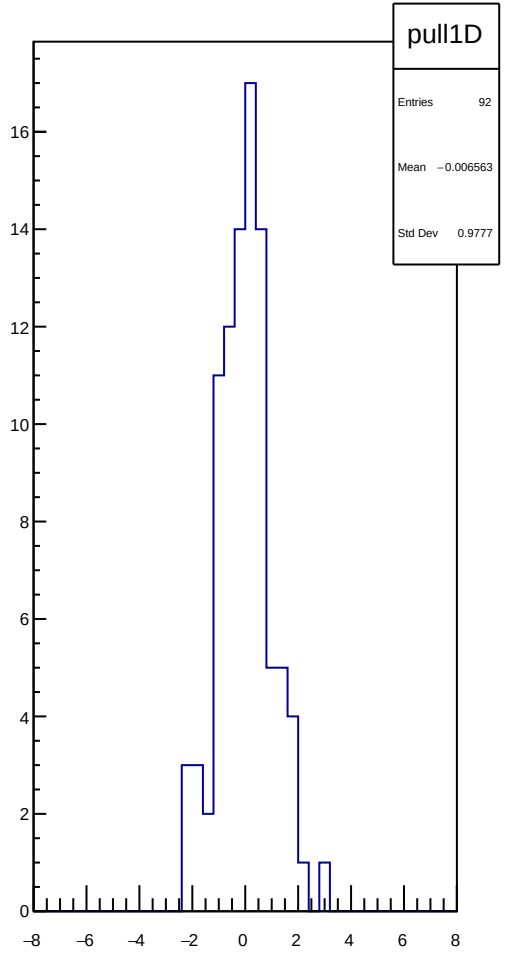

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 270 / 91
p0 1924 ± 1.448
2100
2050
2000
1950
1900
1850

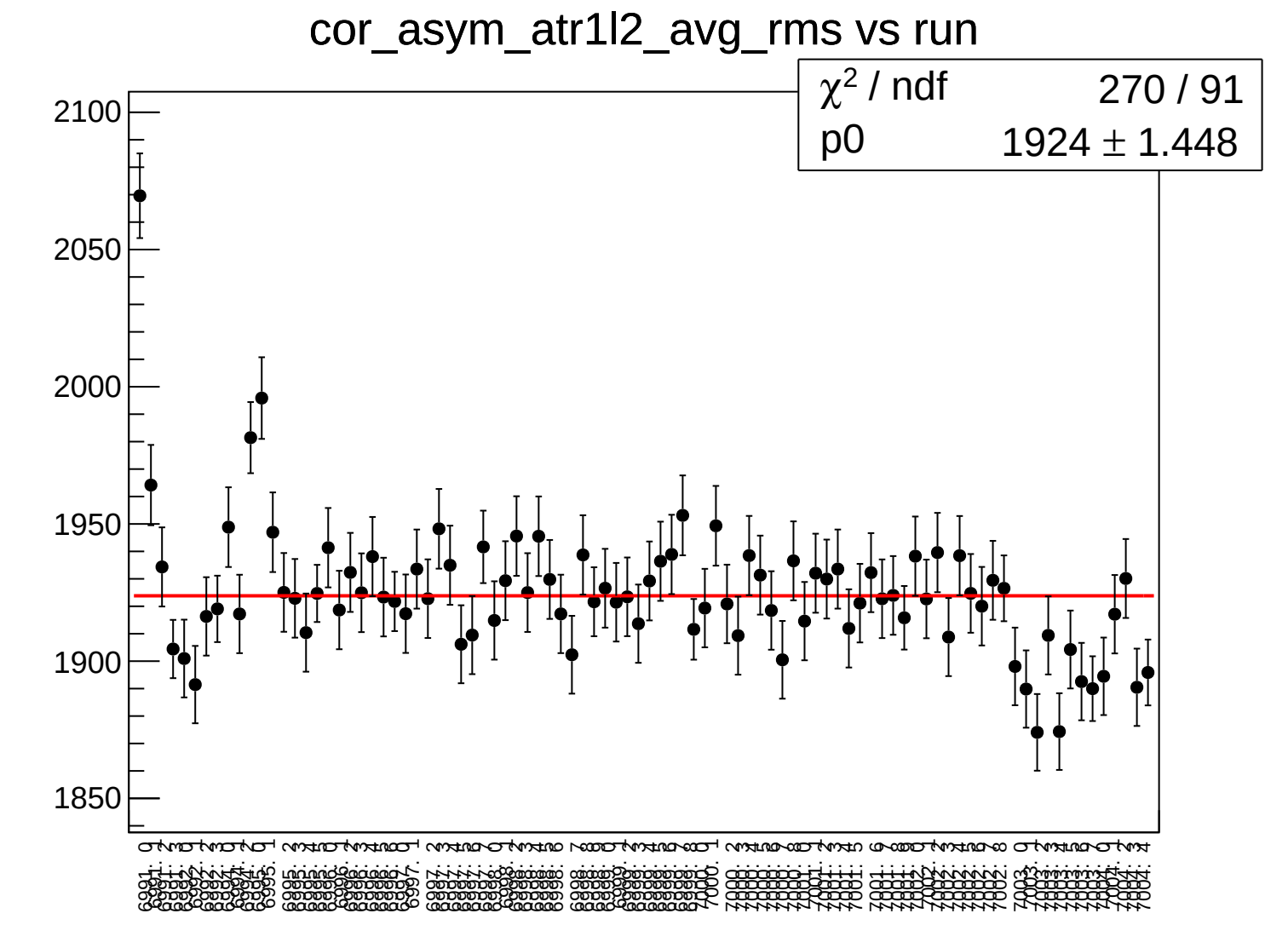

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 −4515 ± 5081
pull
Entries 92
Mean −4945
Std Dev 0

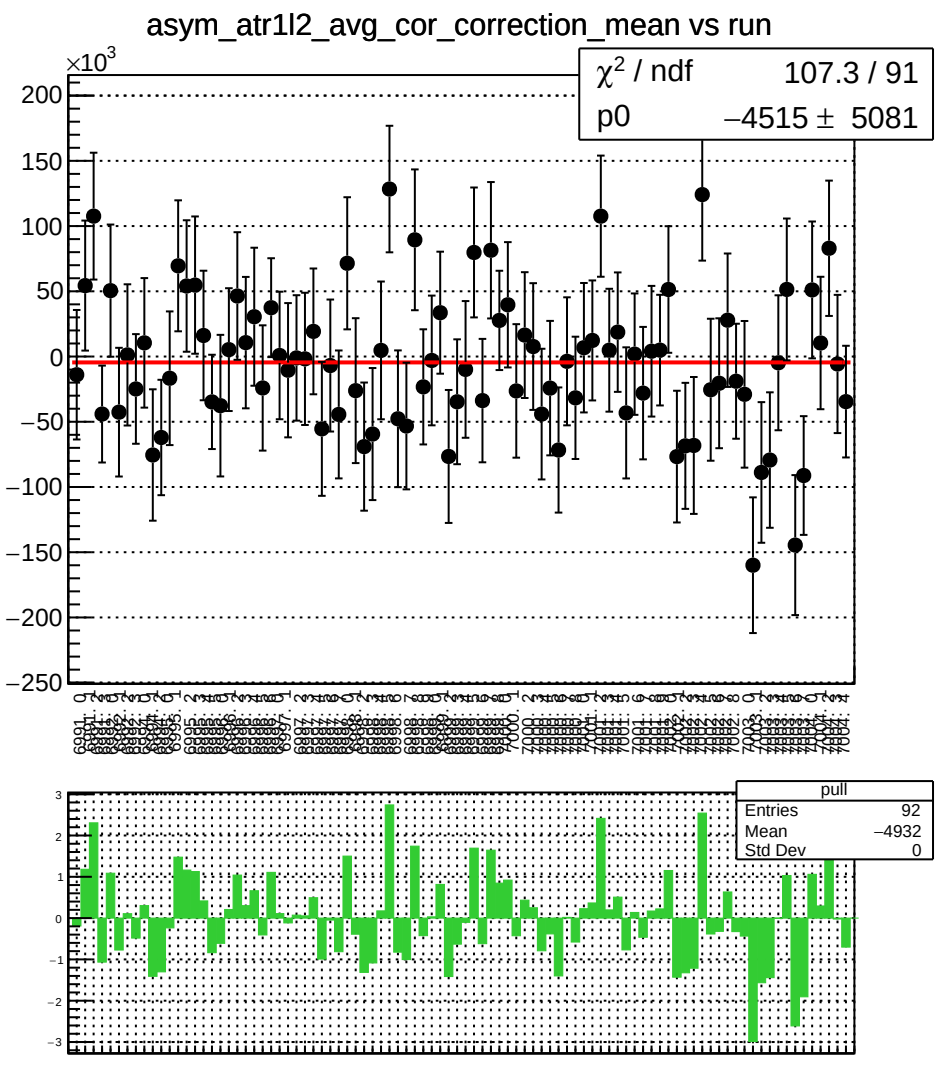

pull1D
Entries 92
Mean 0.0009031
Std Dev 1.08

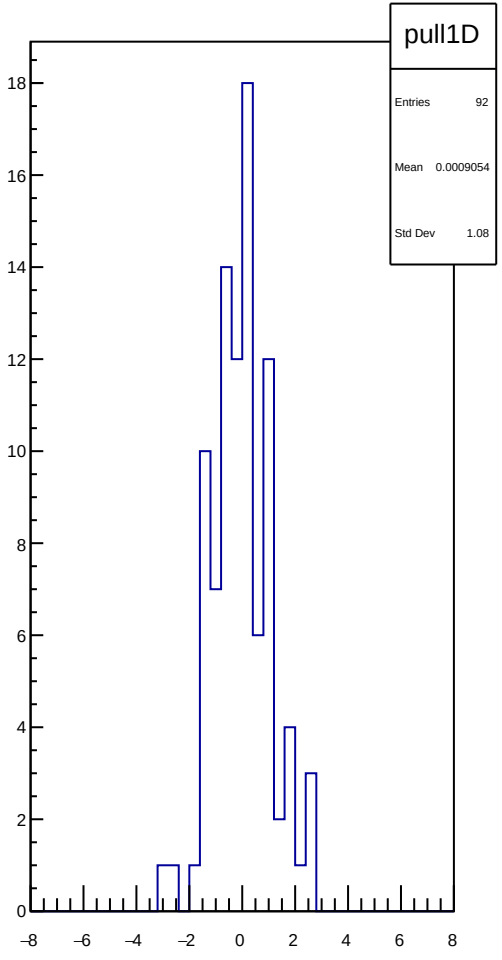

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 3279 / 91
p0 4769 ± 3.593
5400
5200
5000
4800
4600
4400

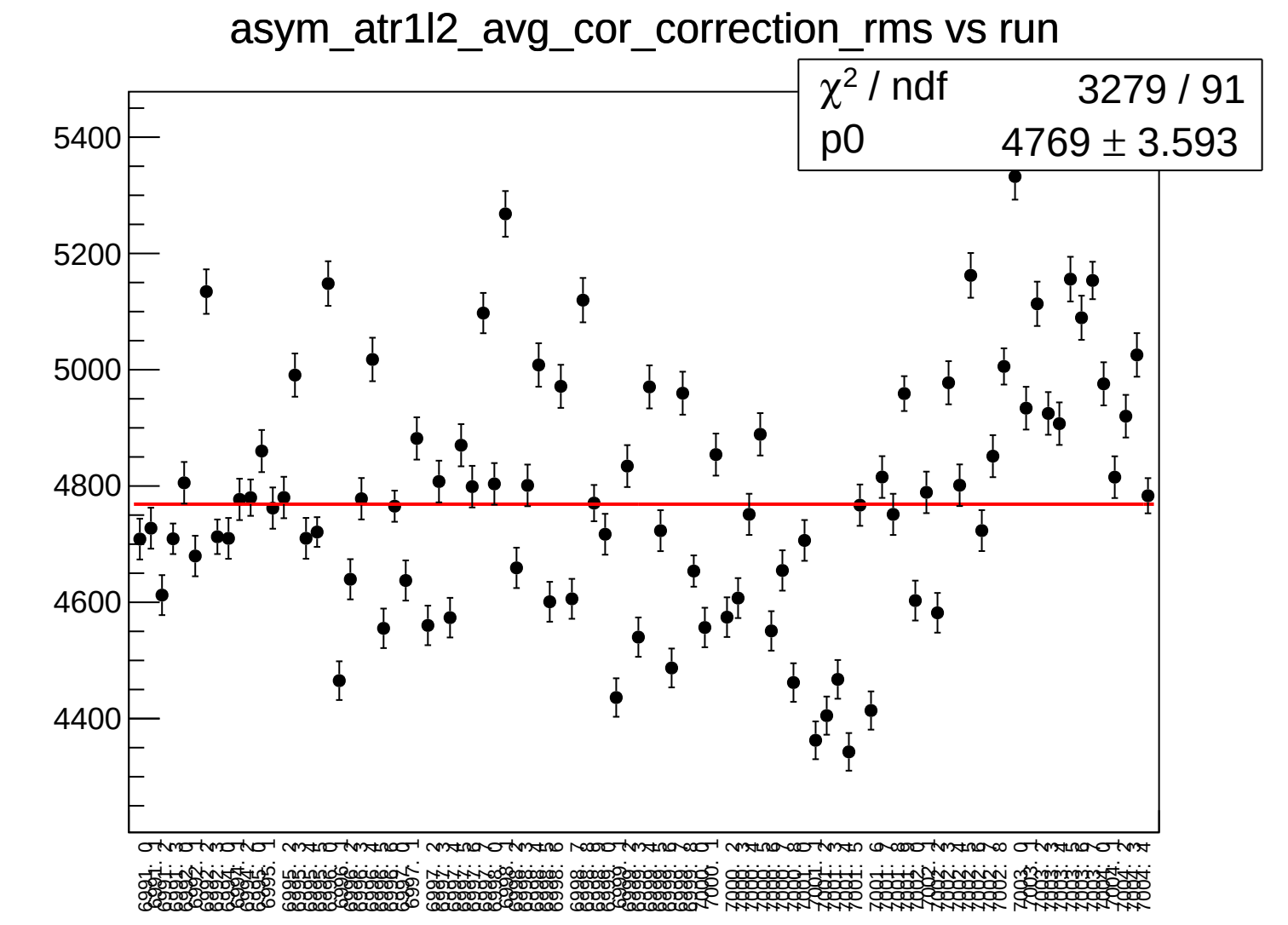

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 87.95 / 91
p0 −3525 ± 2048
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −205
Std Dev 0
3
2
1
0
−1
−2

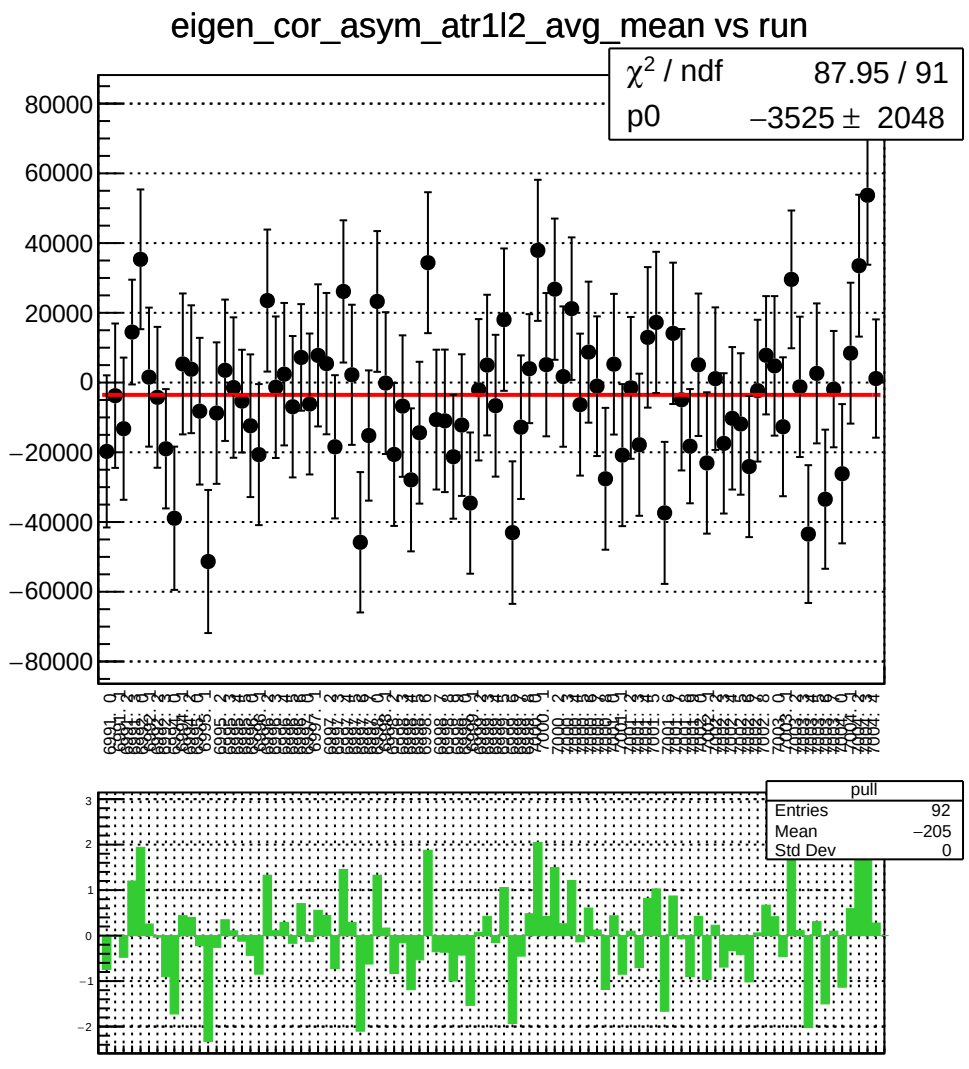

pull1D
Entries 92
Mean −0.006563
Std Dev 0.9777
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

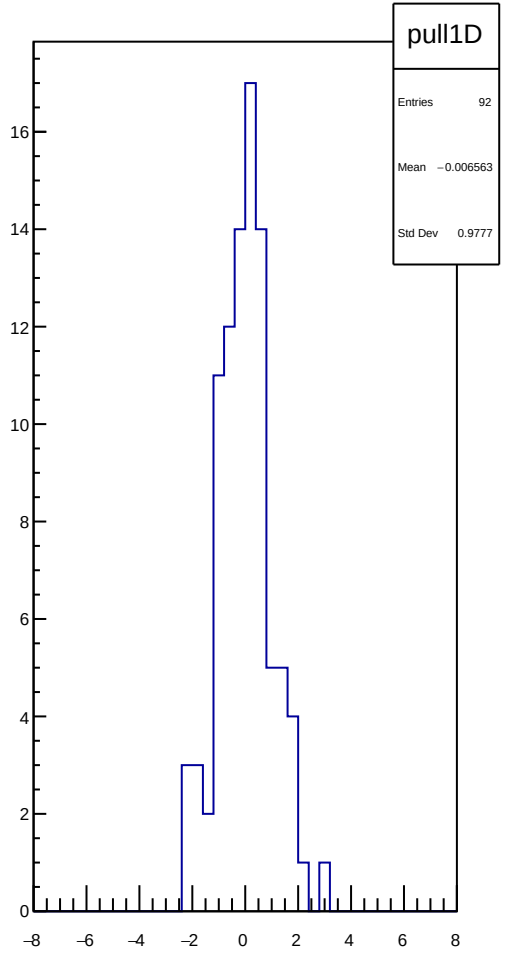

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 270 / 91
p0 1924 ± 1.448
2100
2050
2000
1950
1900
1850

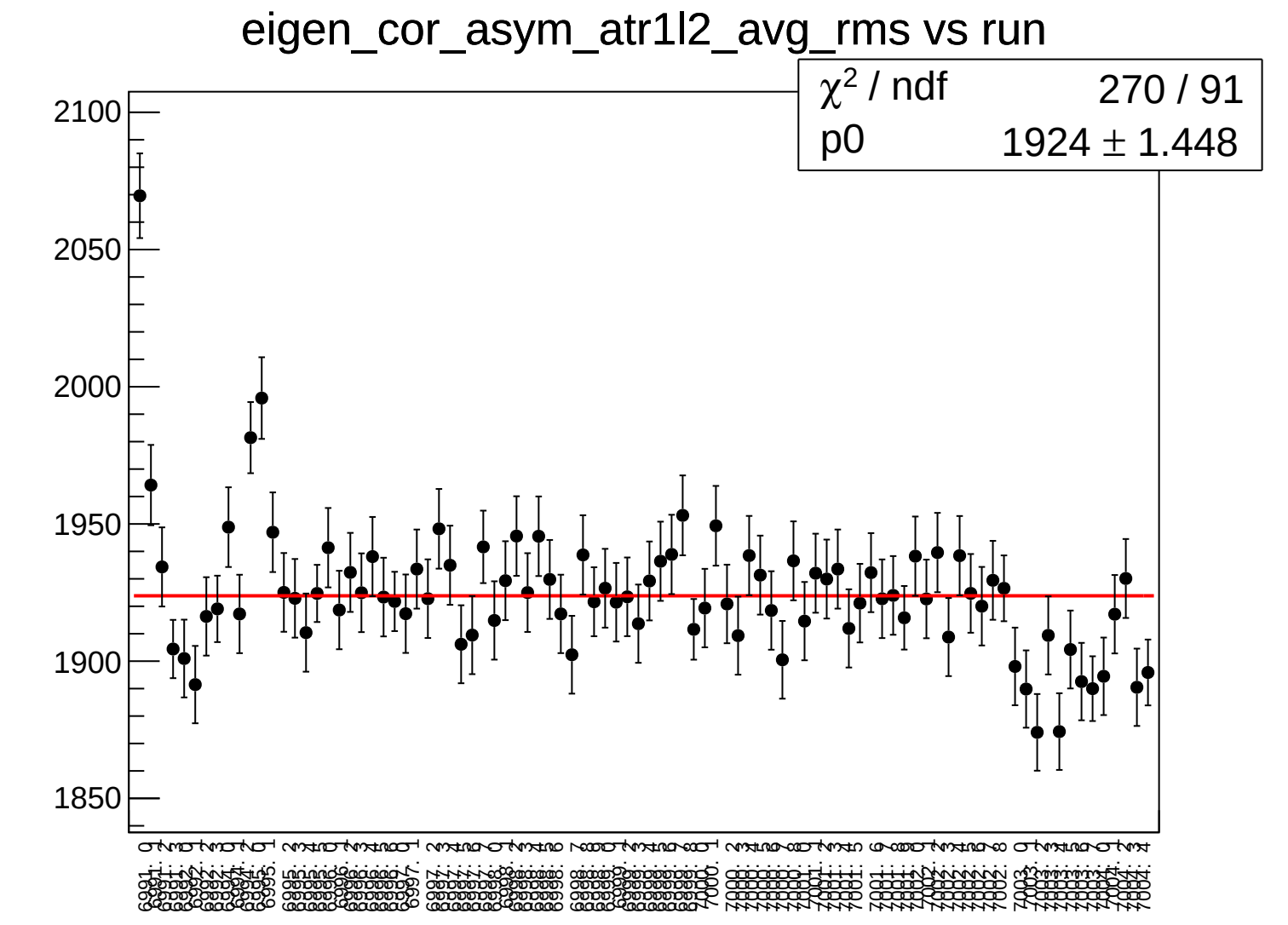

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 −4515 ± 5081
pull
Entries 92
Mean −4932
Std Dev 0

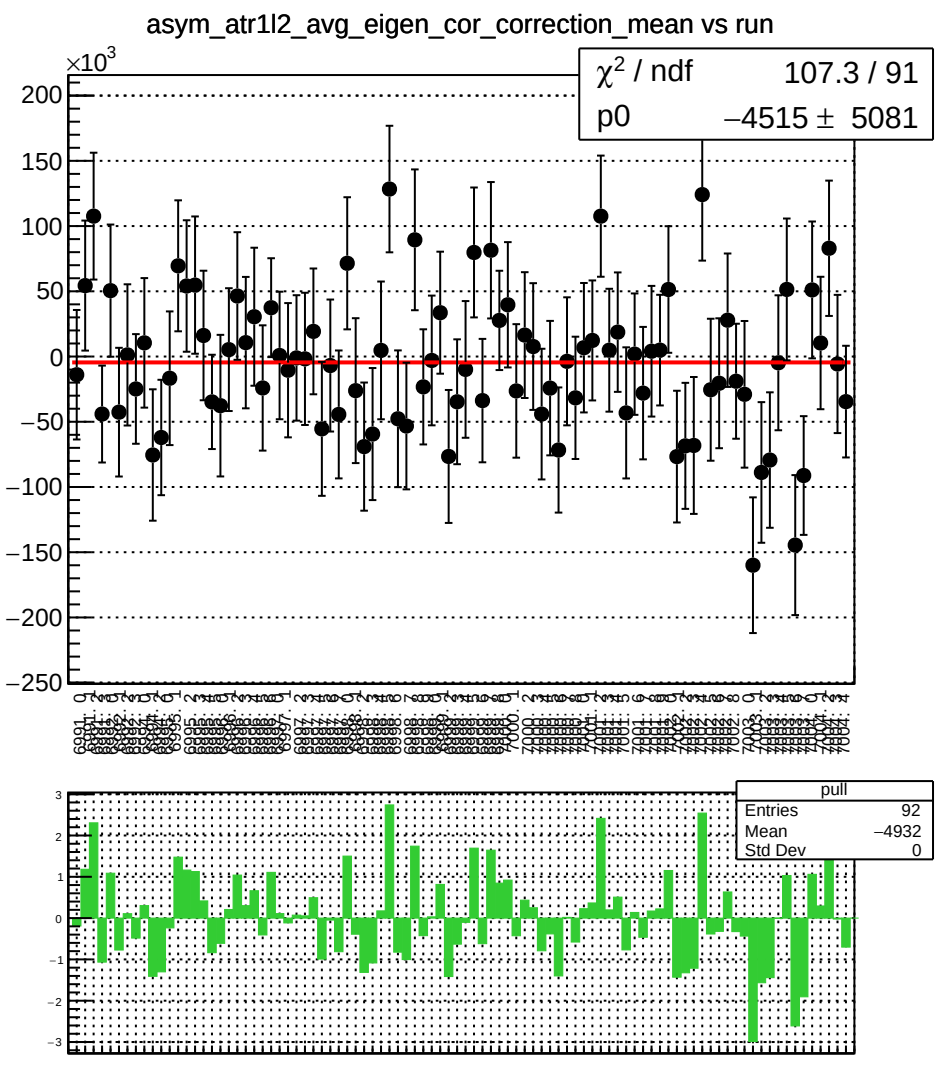

pull1D
Entries 92
Mean 0.0009054
Std Dev 1.08

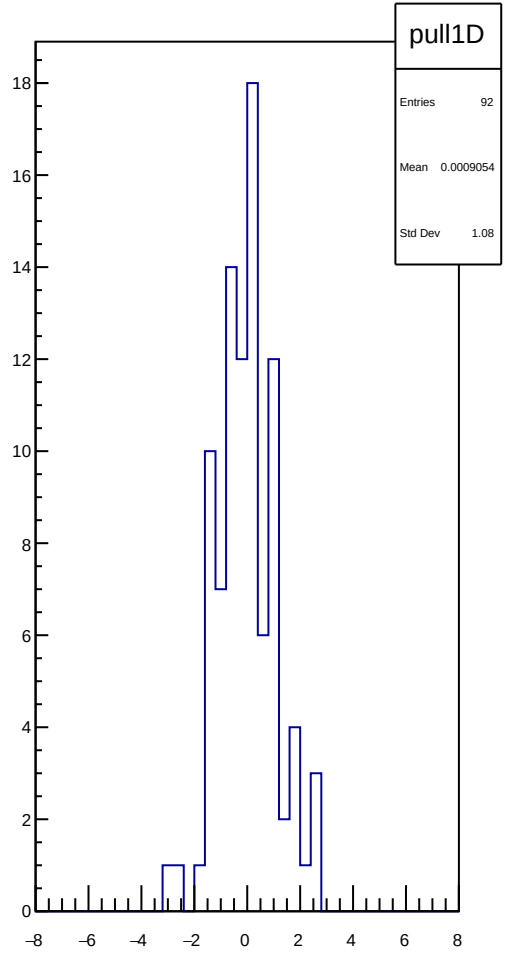

asym_atr1l2_avg_cor_correction_rms vs run
χ^2 / ndf 3279 / 91
p0 4769 ± 3.593
5400
5200
5000
4800
4600
4400

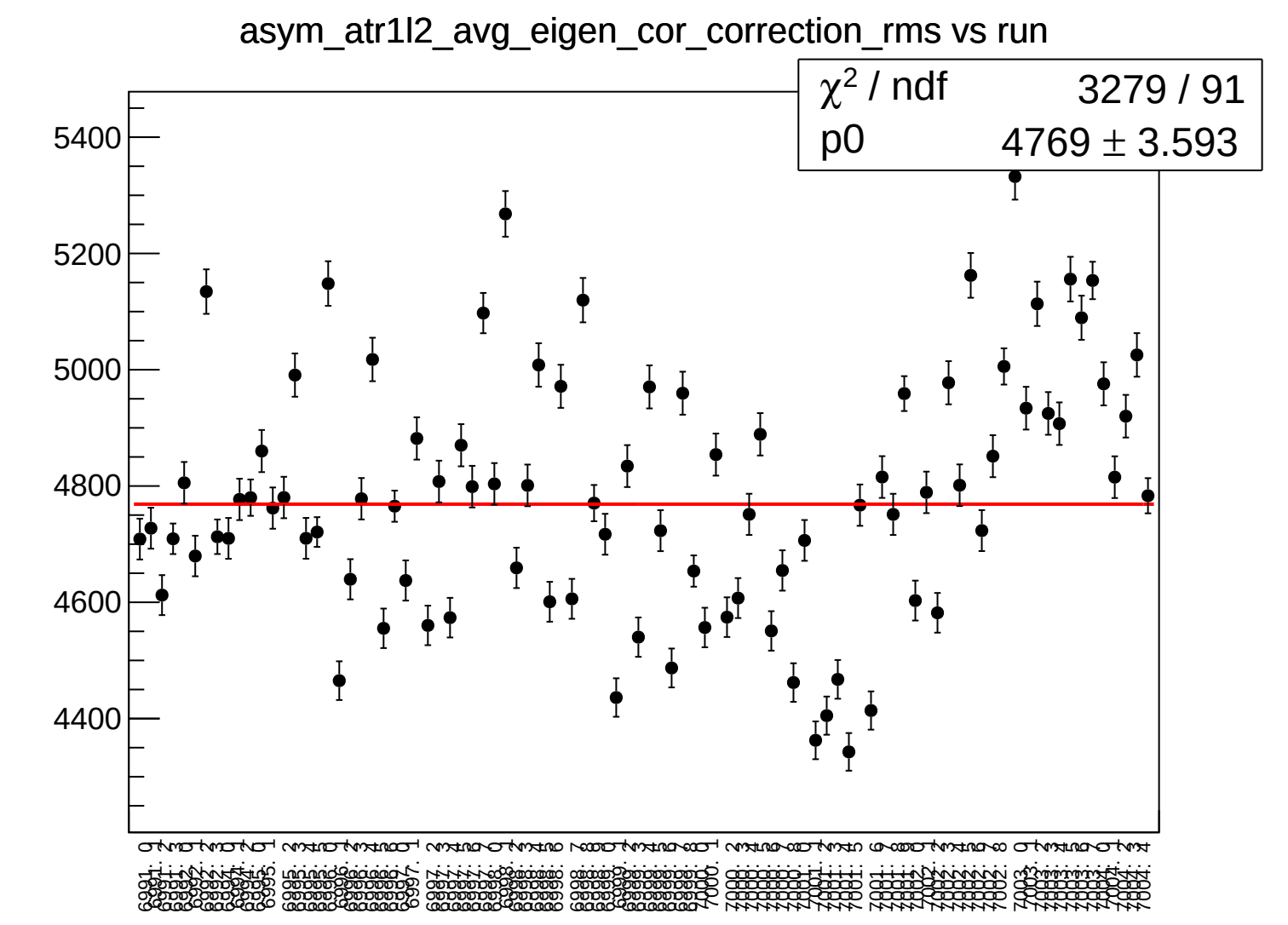

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 87.95 / 91
p0 −3525 ± 2048
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −205
Std Dev 0
3
2
1
0
−1
−2

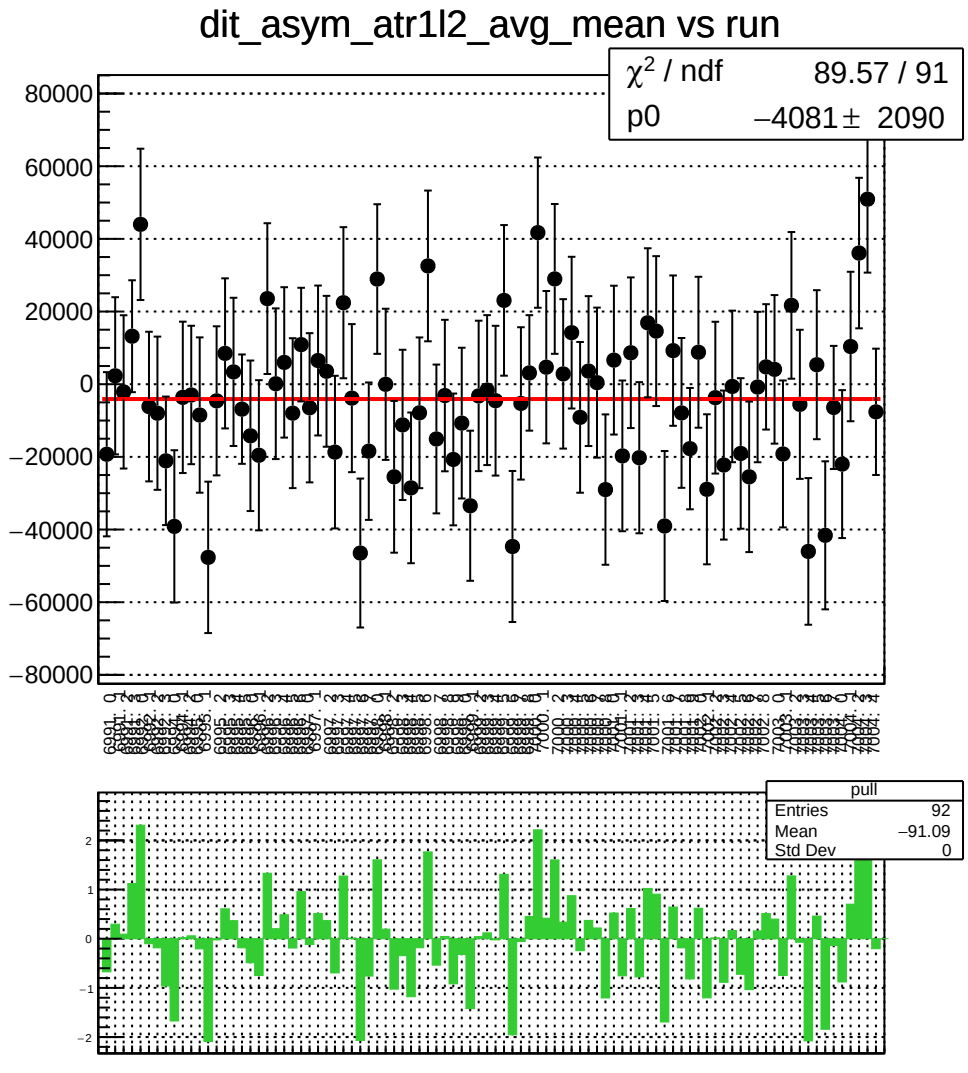

pull1D
Entries 92
Mean −0.006563
Std Dev 0.9777
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

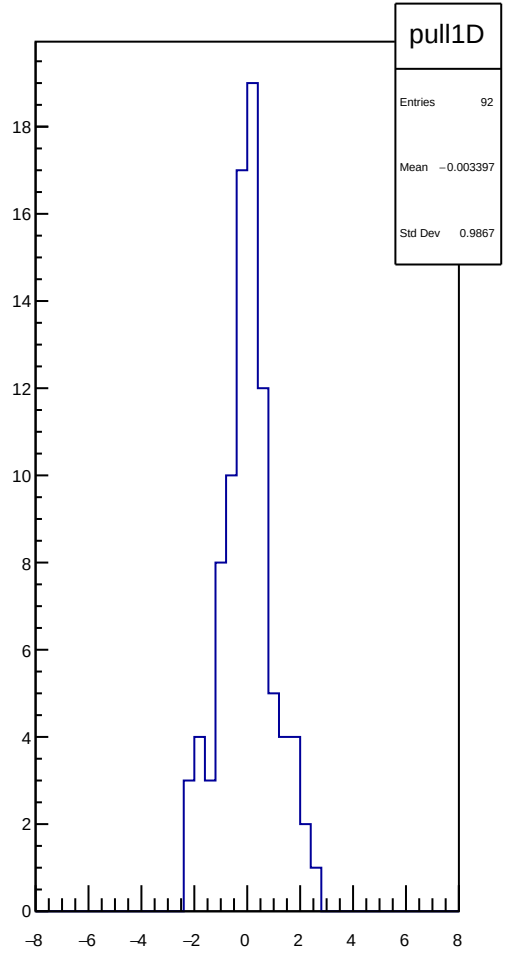

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 270 / 91
p0 1924 ± 1.448
2100
2050
2000
1950
1900
1850

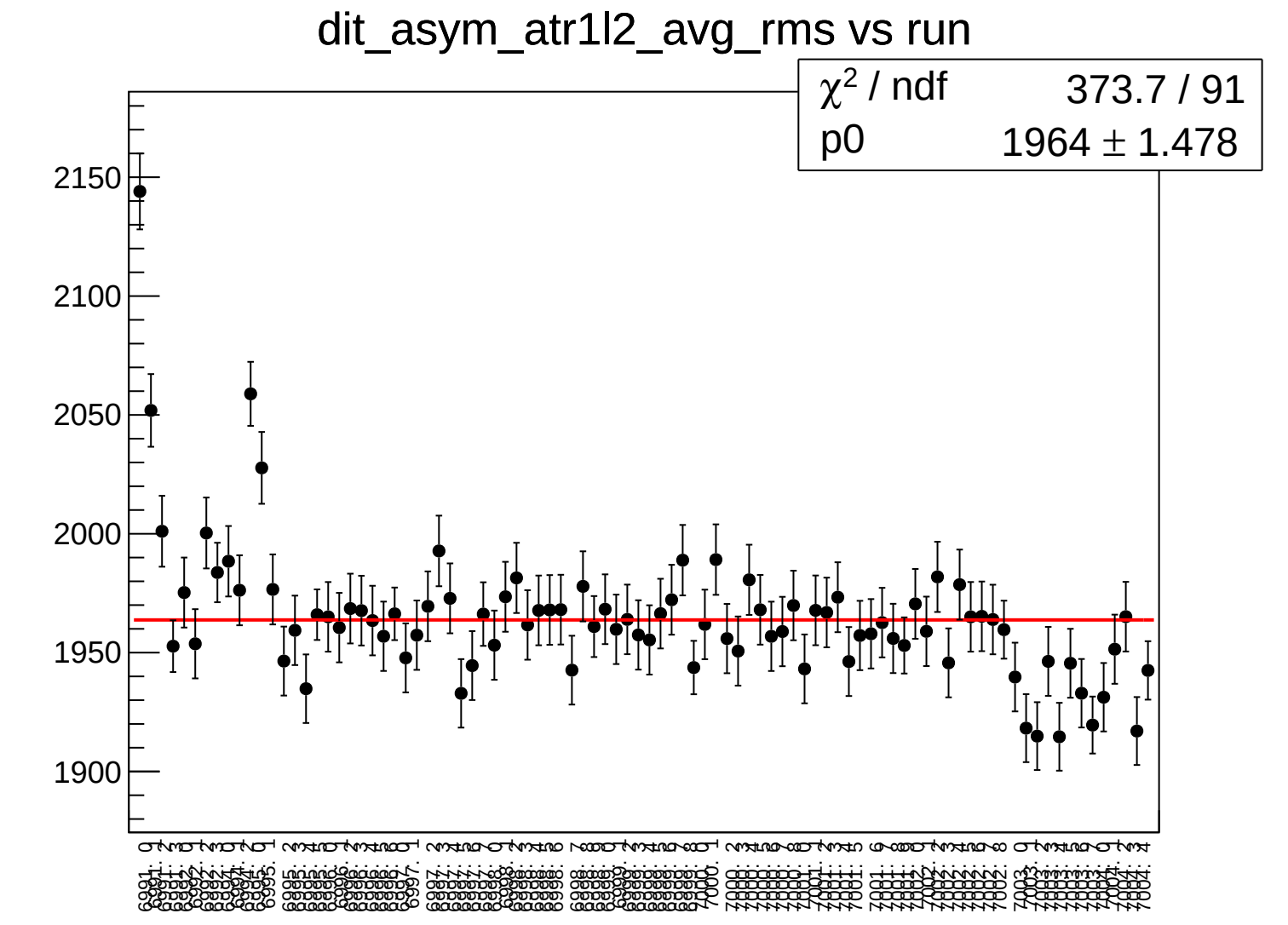

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 −4515 ± 5081
pull
Entries 92
Mean −4932
Std Dev 0

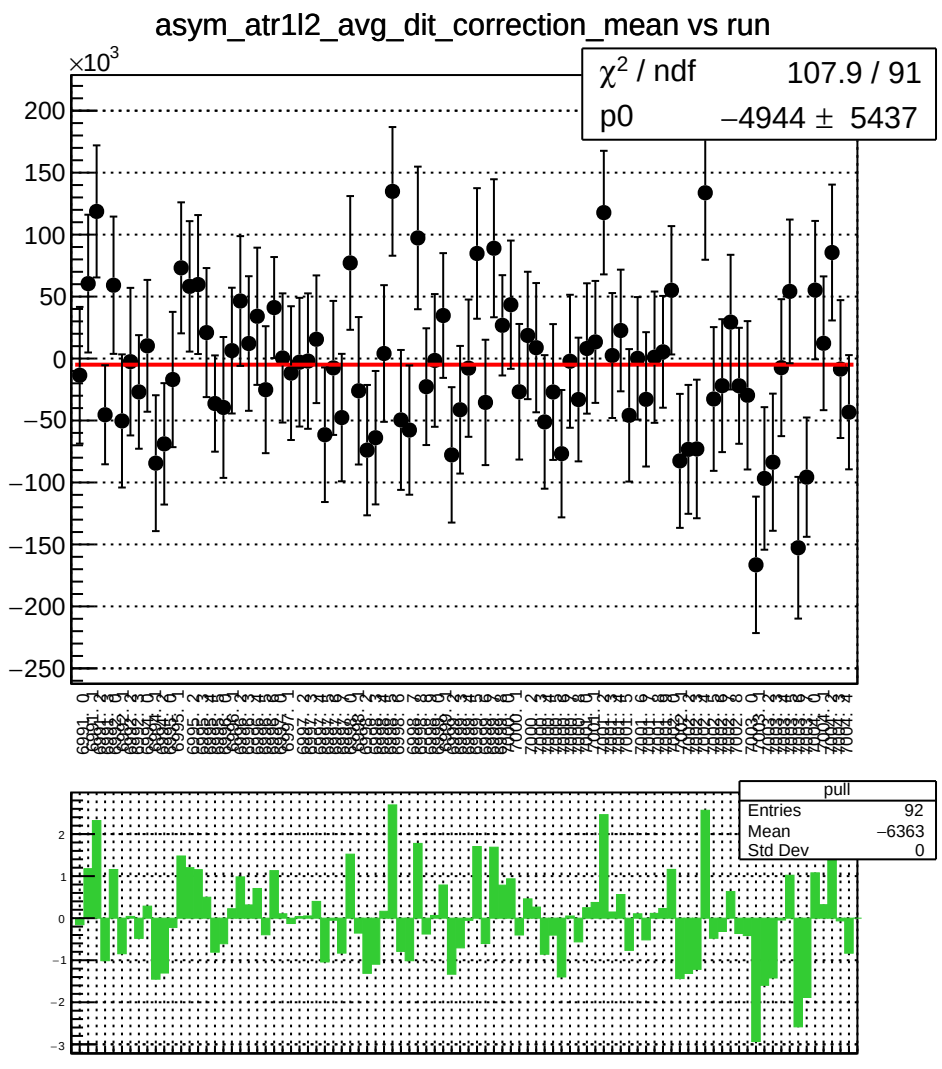

pull1D
Entries 92
Mean 0.0009054
Std Dev 1.08

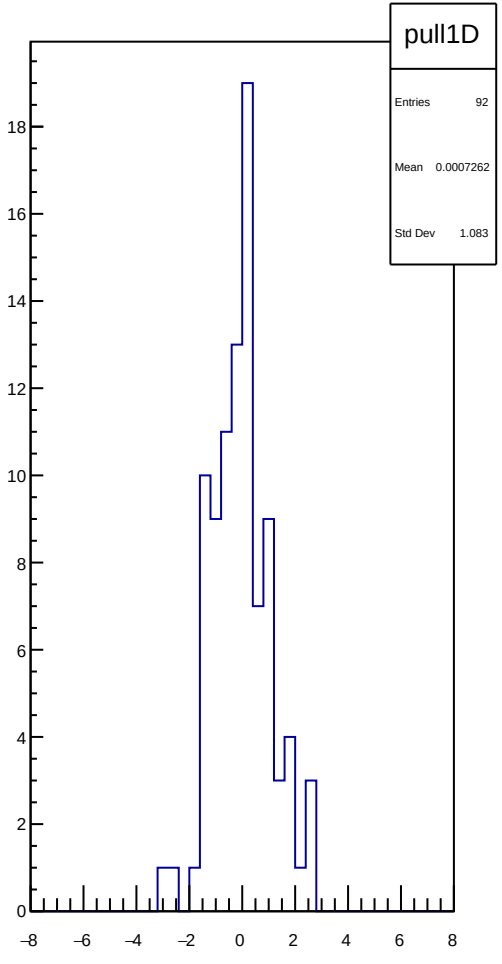

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3279 / 91
p0 4769 ± 3.593
5400
5200
5000
4800
4600
4400

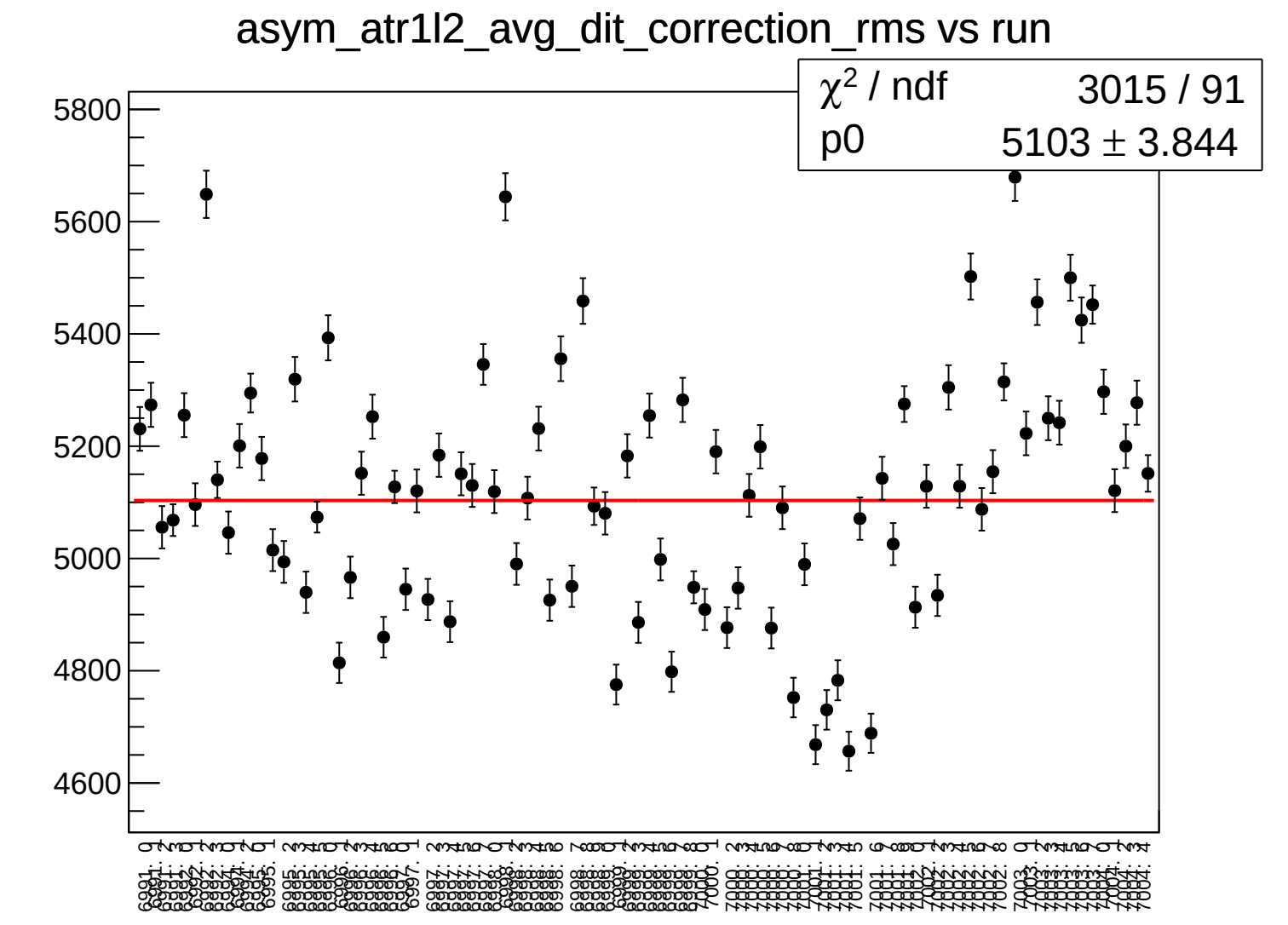

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 89.57 / 91
p0 −4081 ± 2090
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −91.09
Std Dev 0
2
1
0
−1
−2

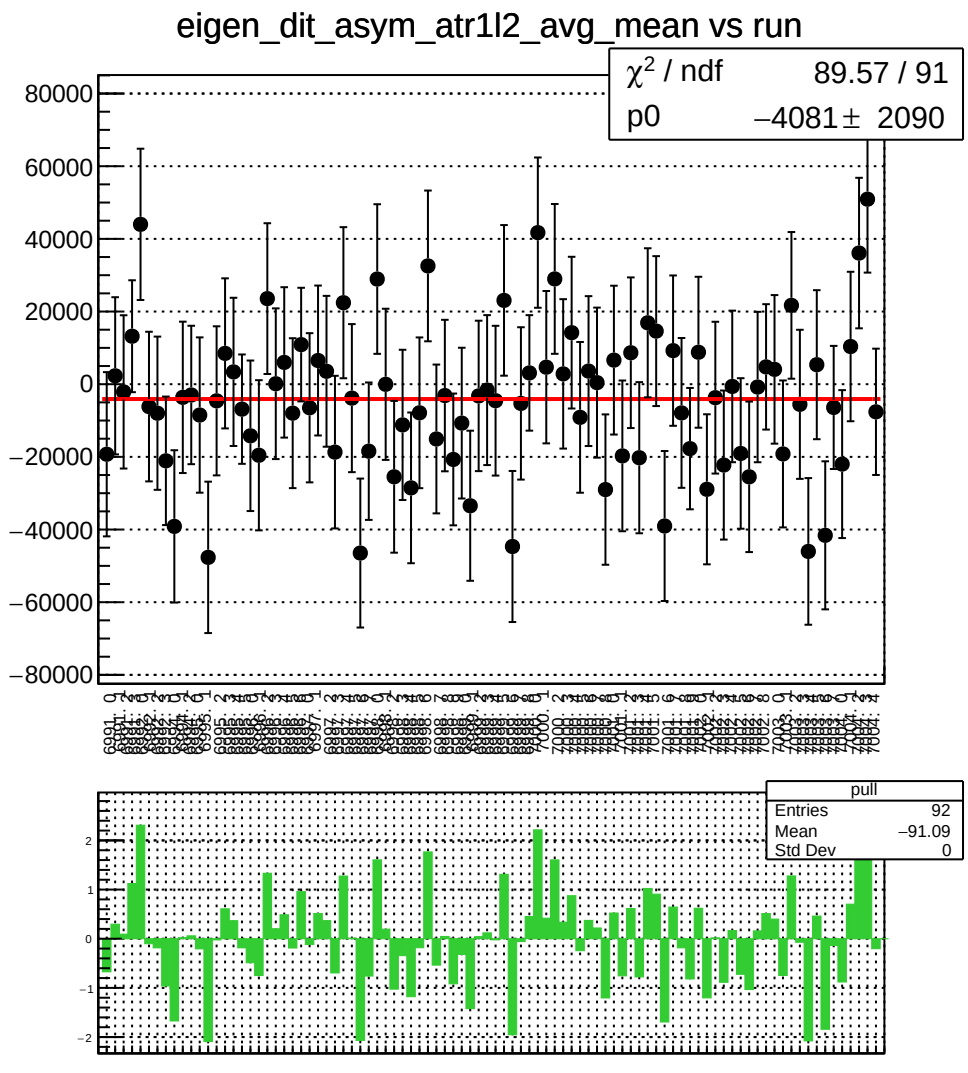

pull1D
Entries 92
Mean −0.003397
Std Dev 0.9867
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

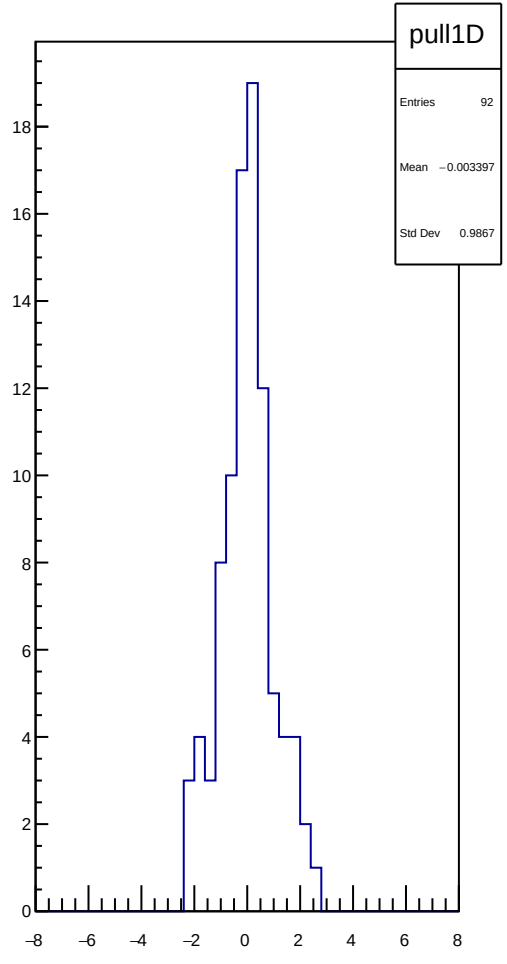

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 373.7 / 91
p0 1964 ± 1.478
2150
2100
2050
2000
1950
1900

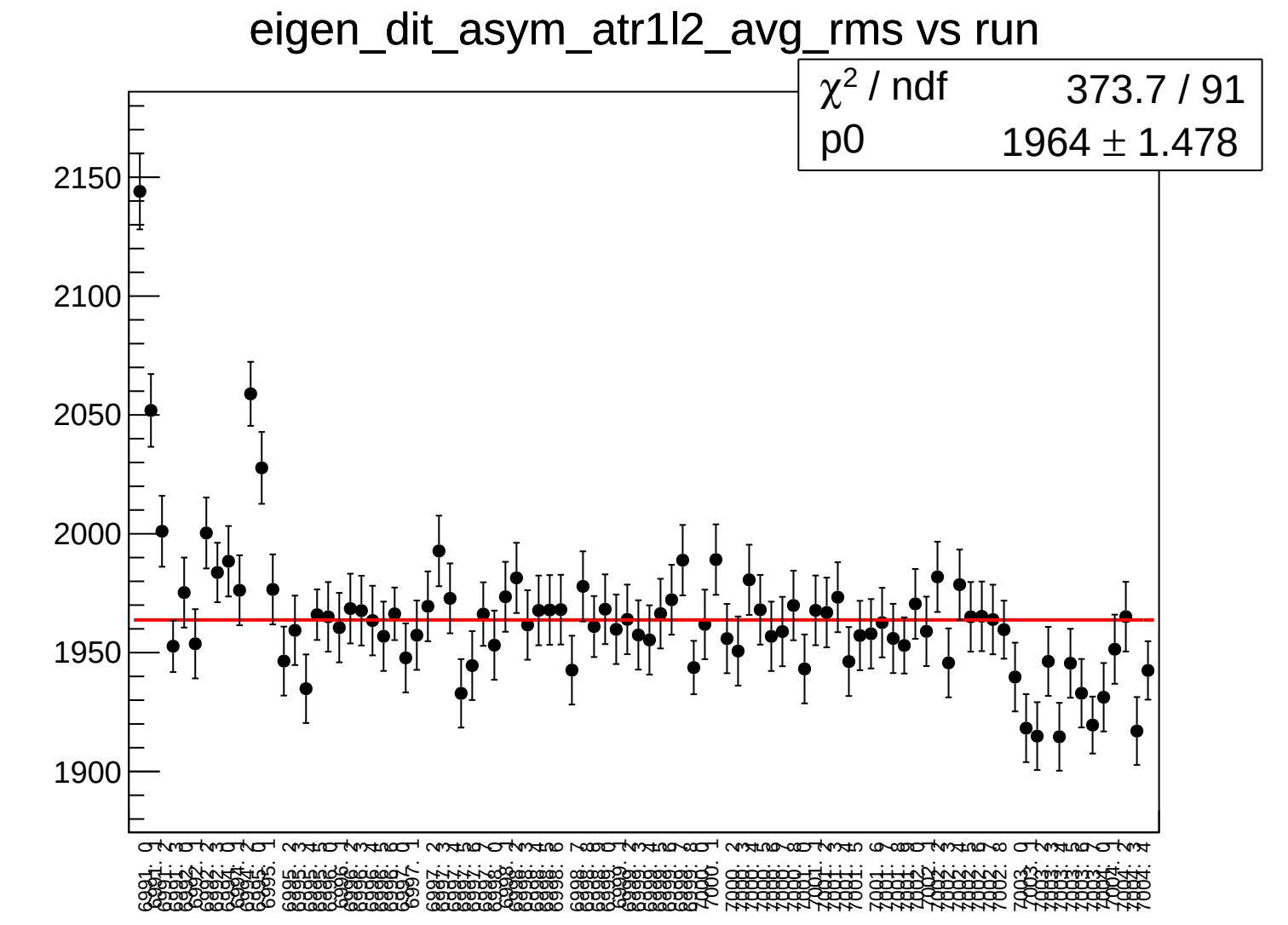

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 91
p0 −4944 ± 5437
pull
Entries 92
Mean −6363
Std Dev 0

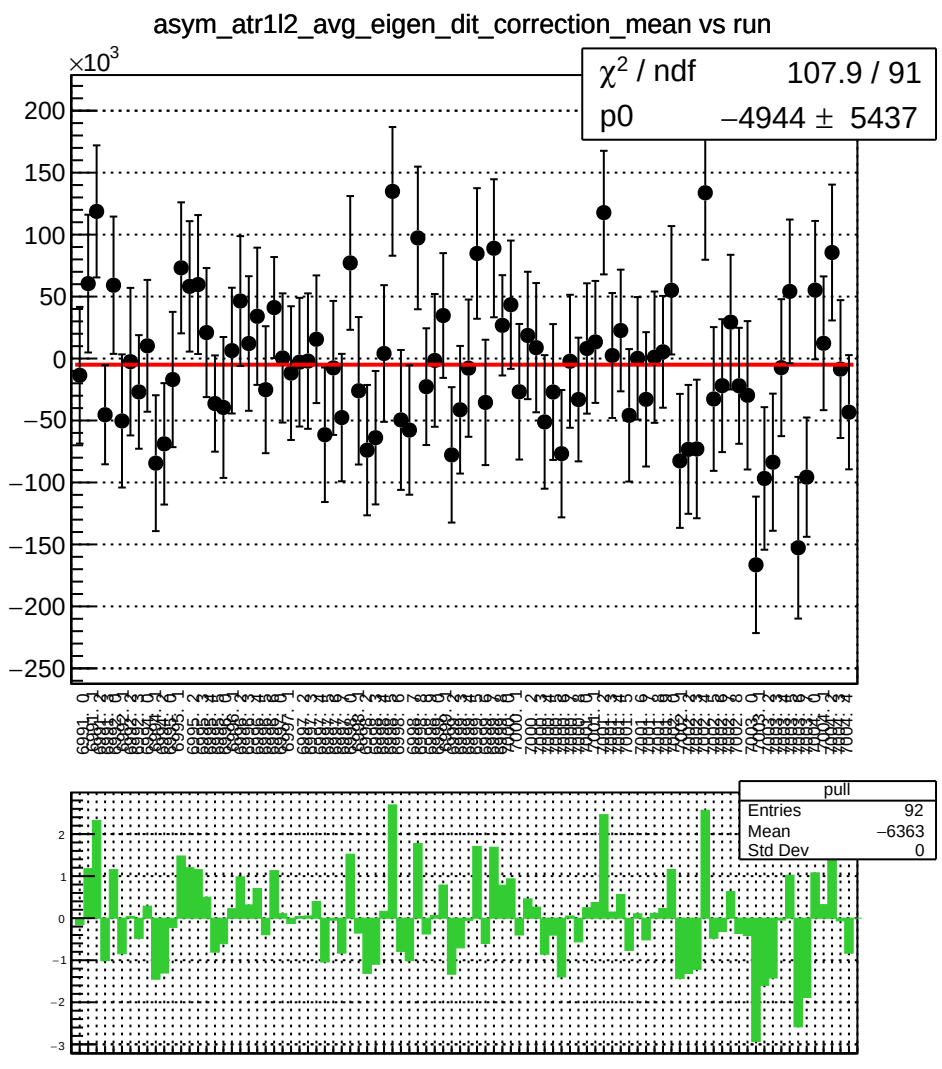

pull1D
Entries 92
Mean 0.0007262
Std Dev 1.083

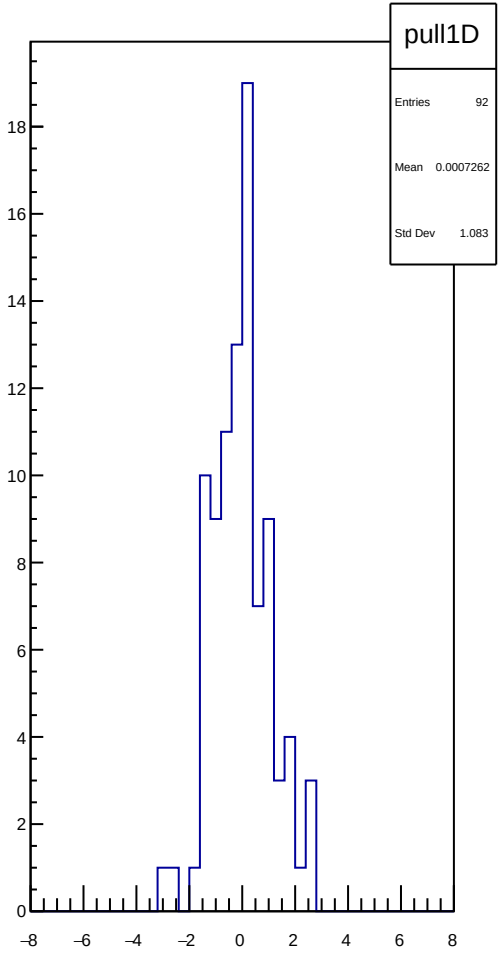

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 3015 / 91
p0 5103 ± 3.844
5800
5600
5400
5200
5000
4800
4600

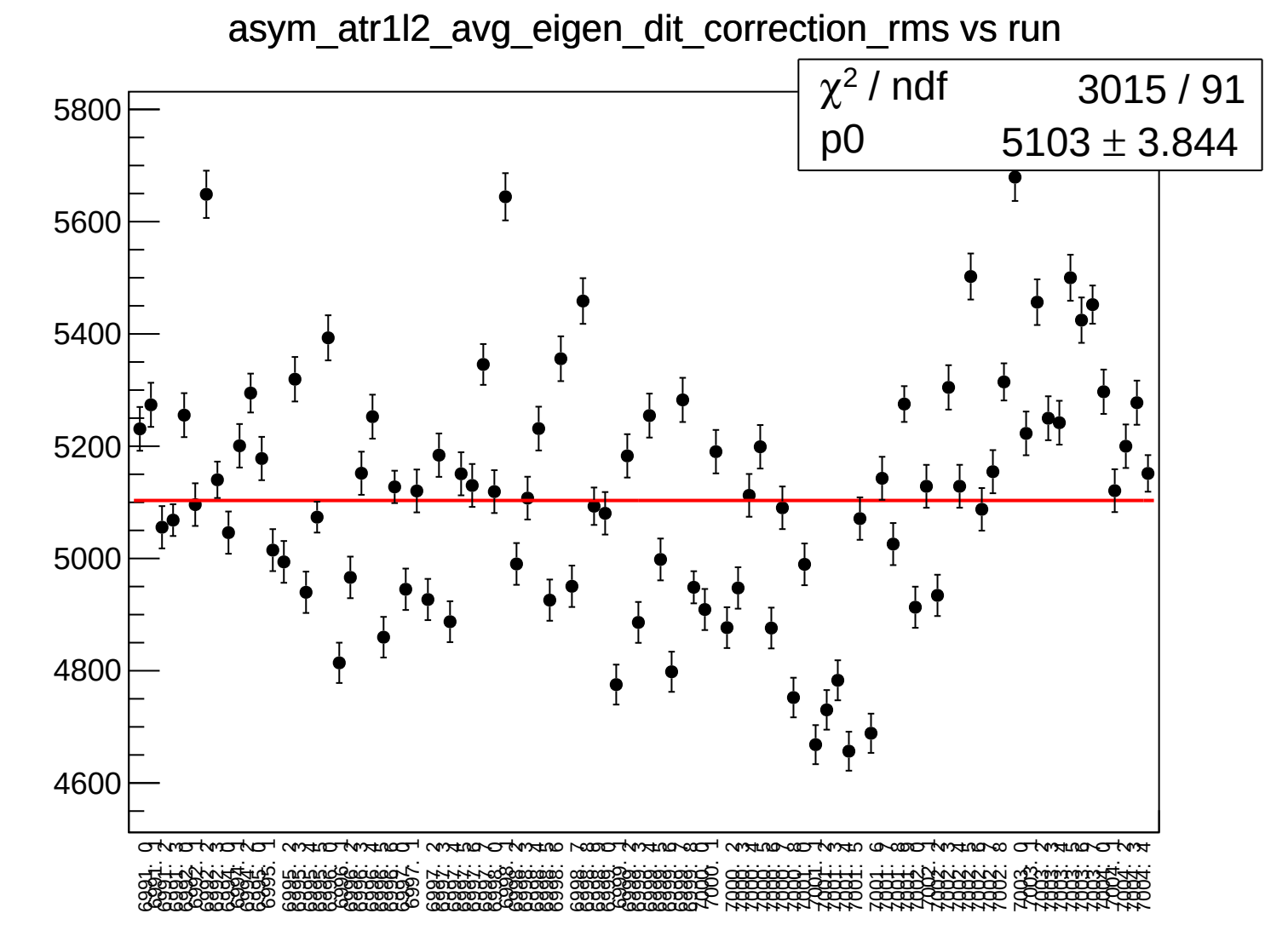

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 89.57 / 91
p0 −4081 ± 2090
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −91.09
Std Dev 0
2
1
0
−1
−2

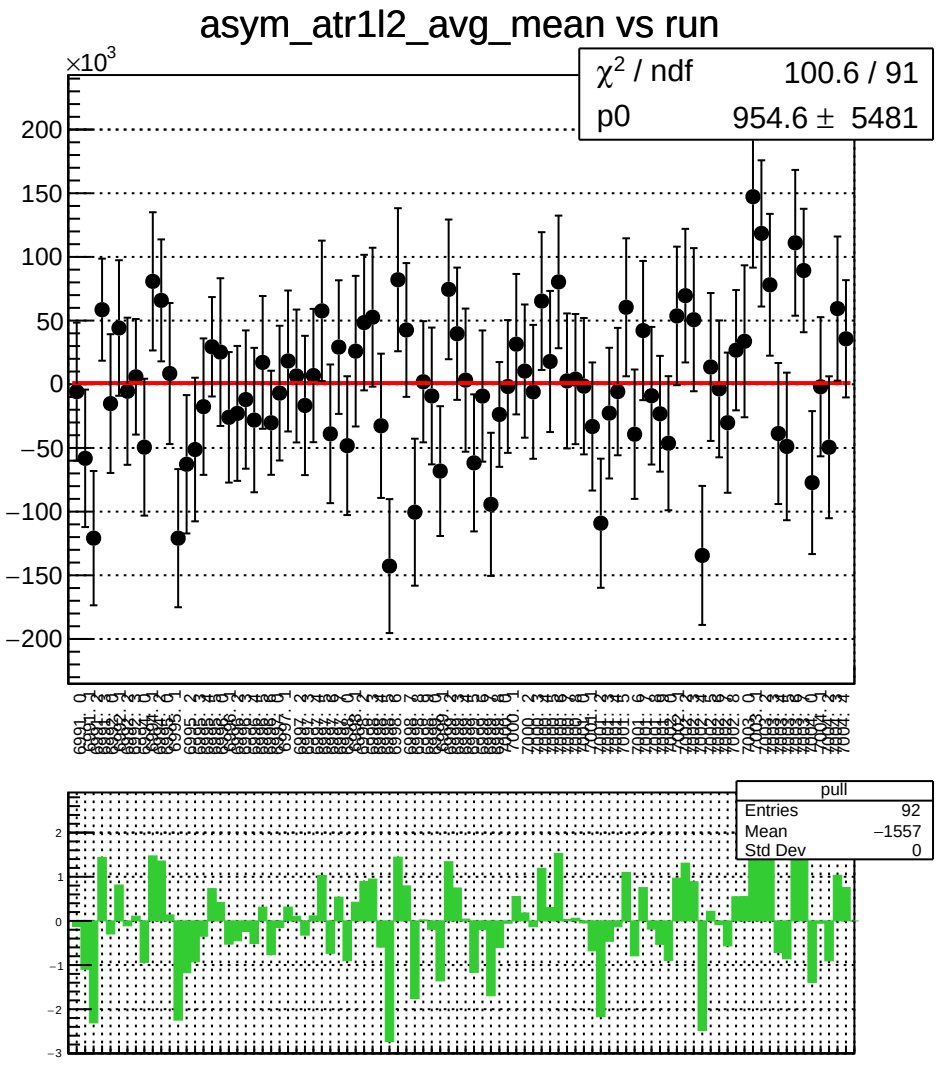

pull1D
Entries 92
Mean −0.003397
Std Dev 0.9867
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

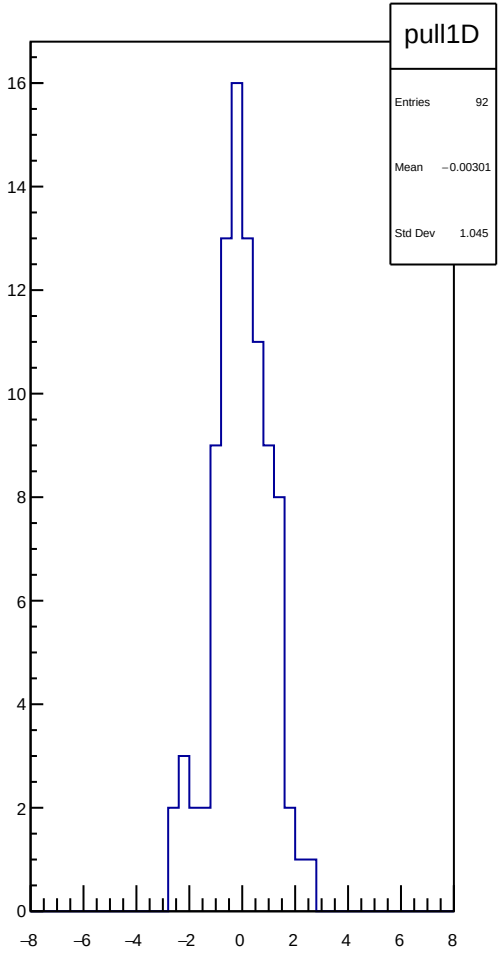

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 373.7 / 91
p0 1964 ± 1.478
2150
2100
2050
2000
1950
1900

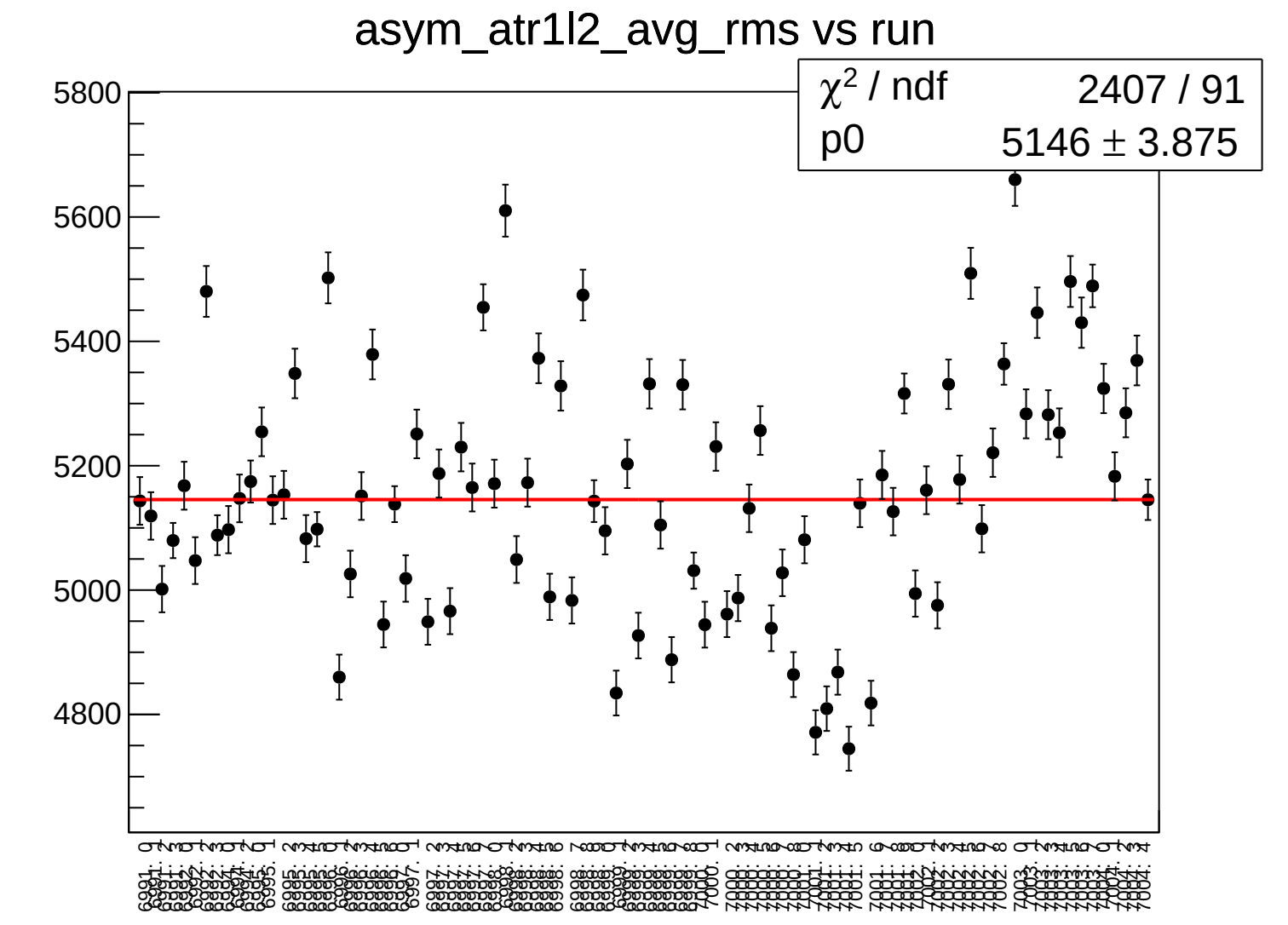

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 91
p0 −4944 ± 5437
pull
Entries 92
Mean −6363
Std Dev 0

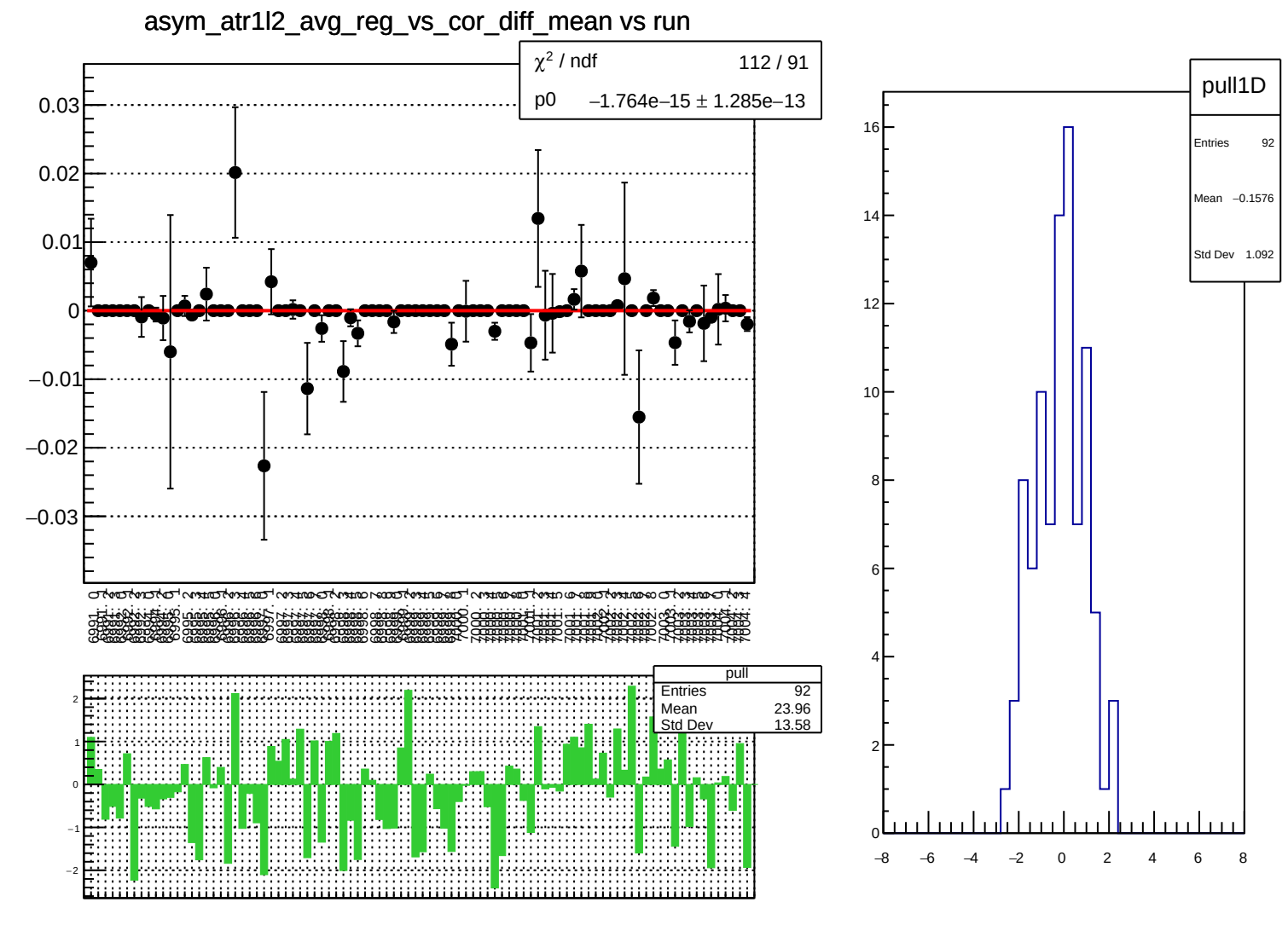

pull1D
Entries 92
Mean 0.0007262
Std Dev 1.083

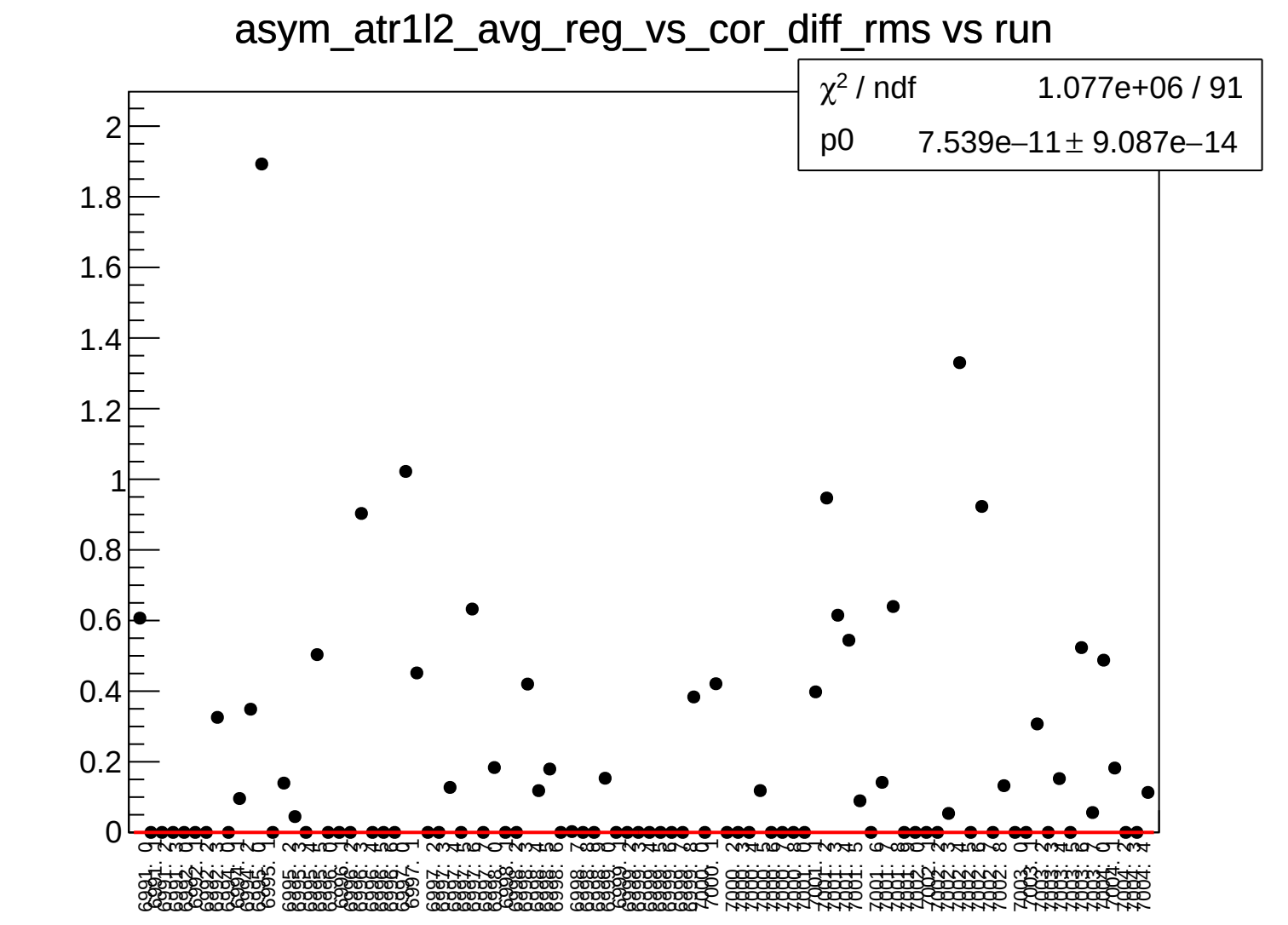

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3015 / 91
p0 5103 ± 3.844
5800
5600
5400
5200
5000
4800
4600

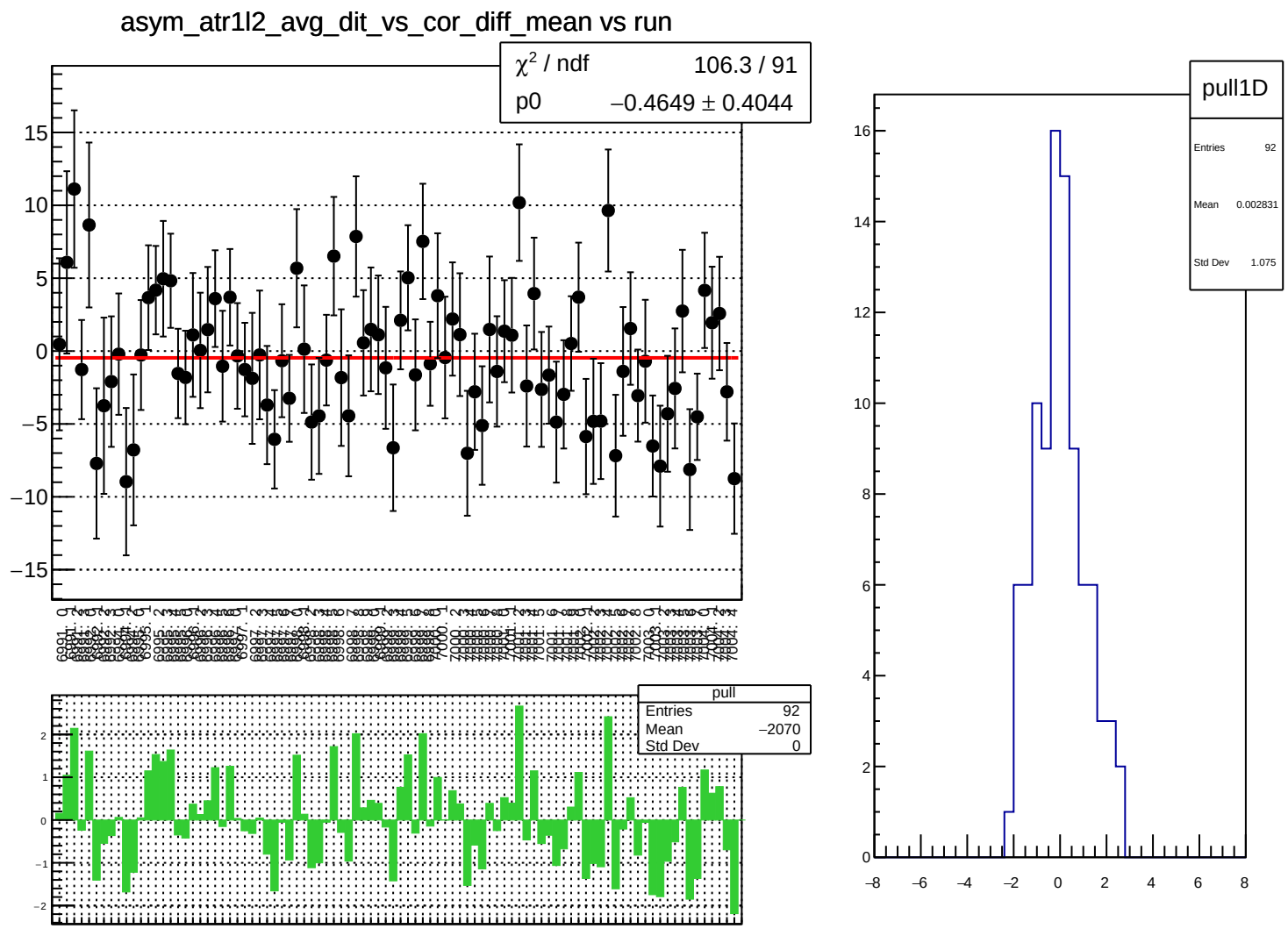

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 100.6 / 91
p0 954.6 ± 5481
pull
Entries 92
Mean −1557
Std Dev 0

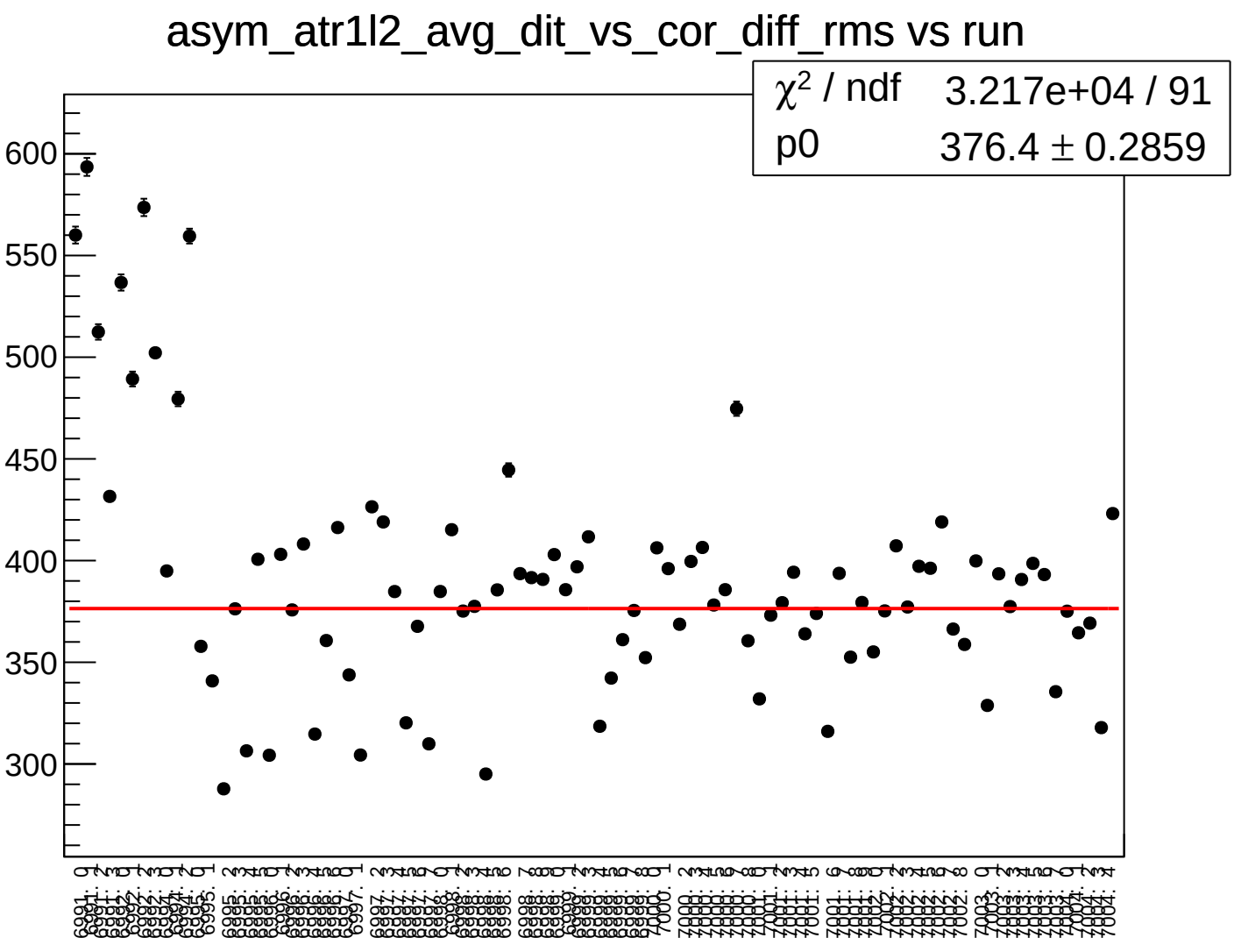

pull1D
Entries 92
Mean −0.00301
Std Dev 1.045

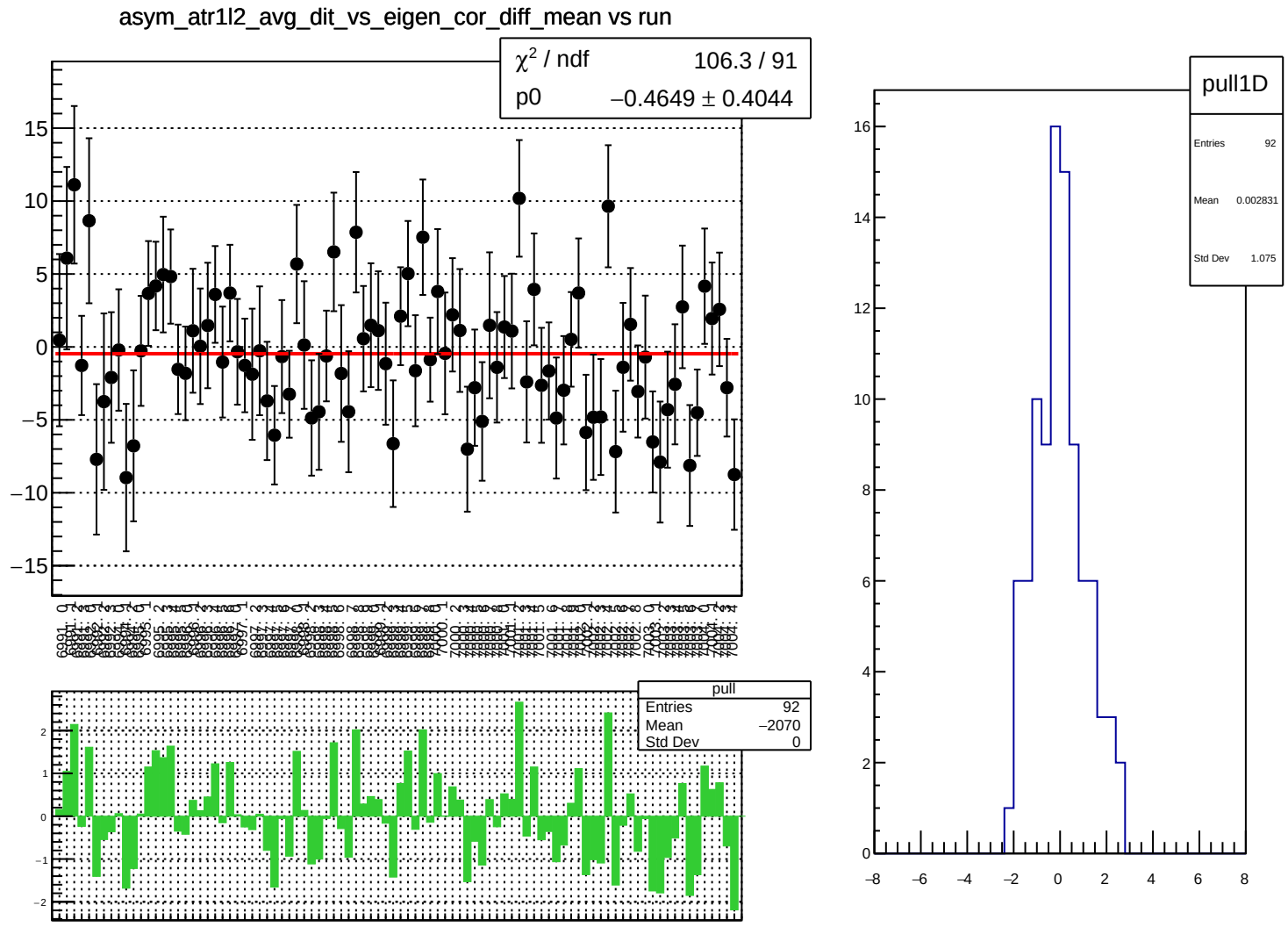

asym_atr1l2_avg_rms vs run
χ^2 / ndf 2407 / 91
p0 5146 ± 3.875
5800
5600
5400
5200
5000
4800

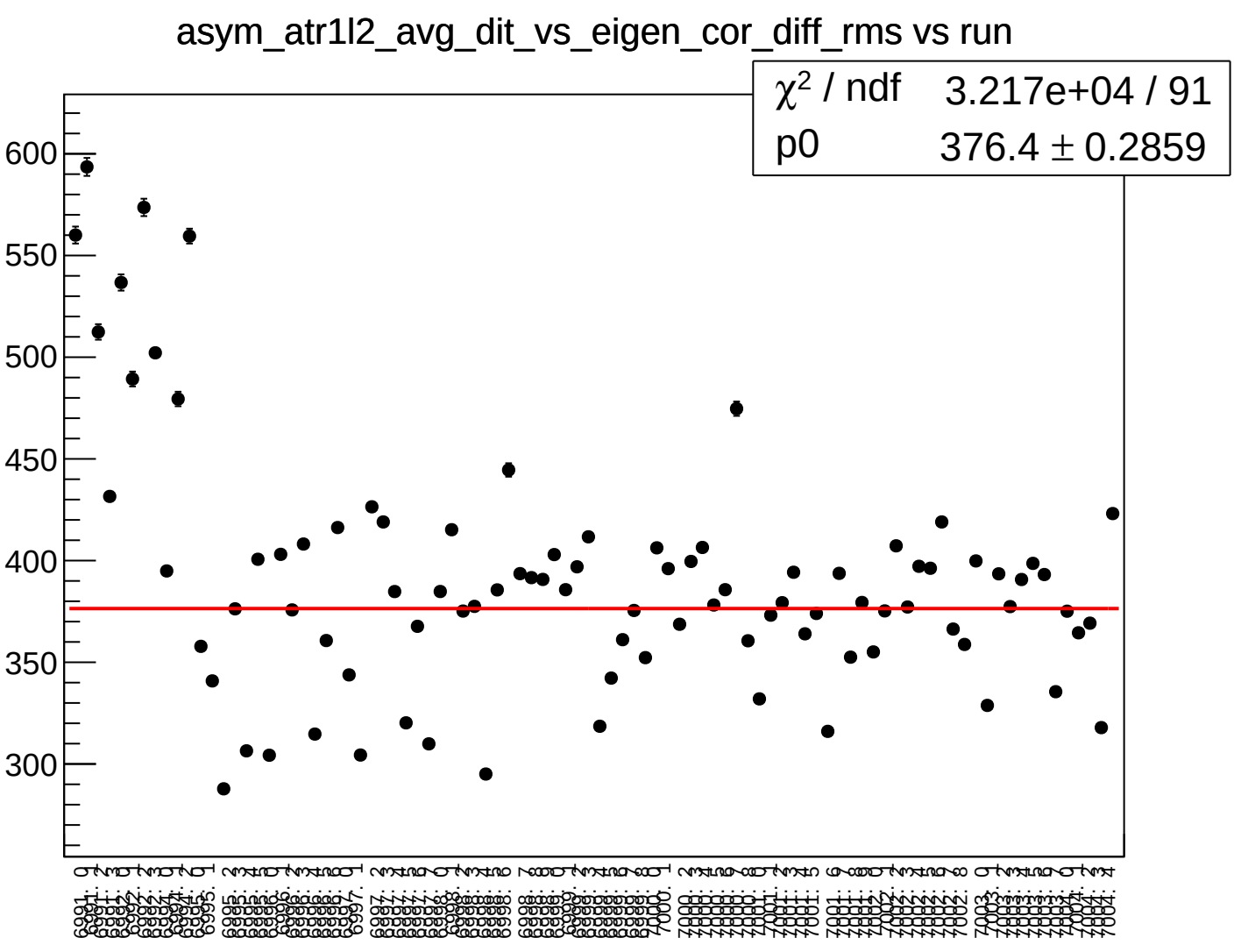

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112 / 91
p0 −1.764e−15 ± 1.285e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 23.96
Std Dev 13.58
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.1576
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

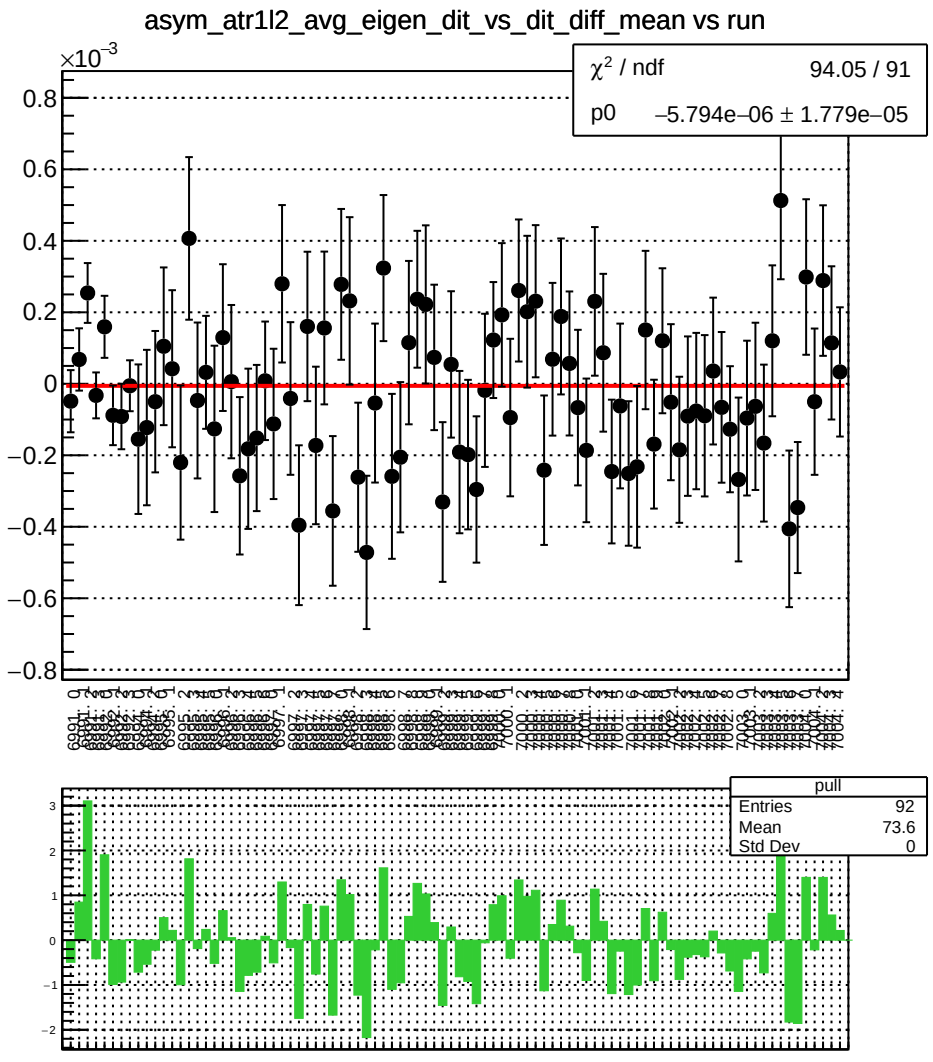

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.077e+06 / 91
p0 7.539e−11 ± 9.087e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

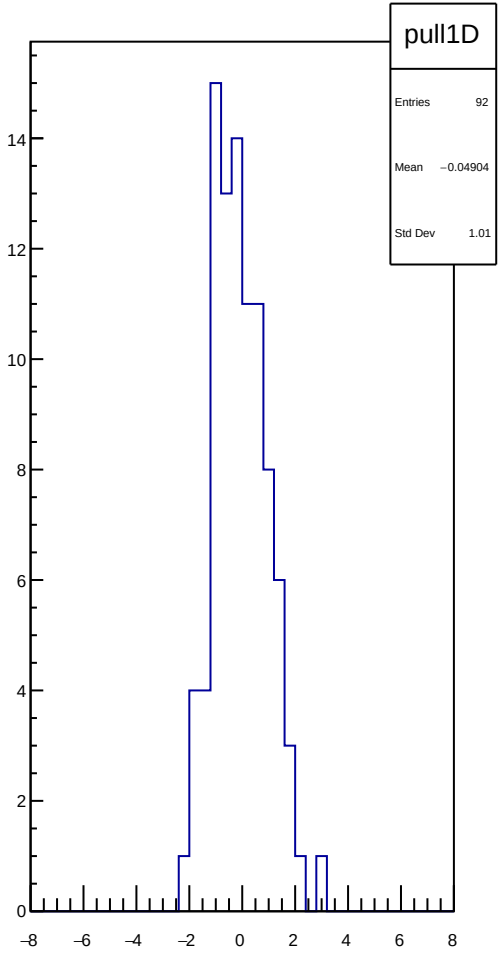

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 91
p0 −0.4649 ± 0.4044
pull
Entries 92
Mean −2070
Std Dev 0
pull1D
Entries 92
Mean 0.002831
Std Dev 1.075

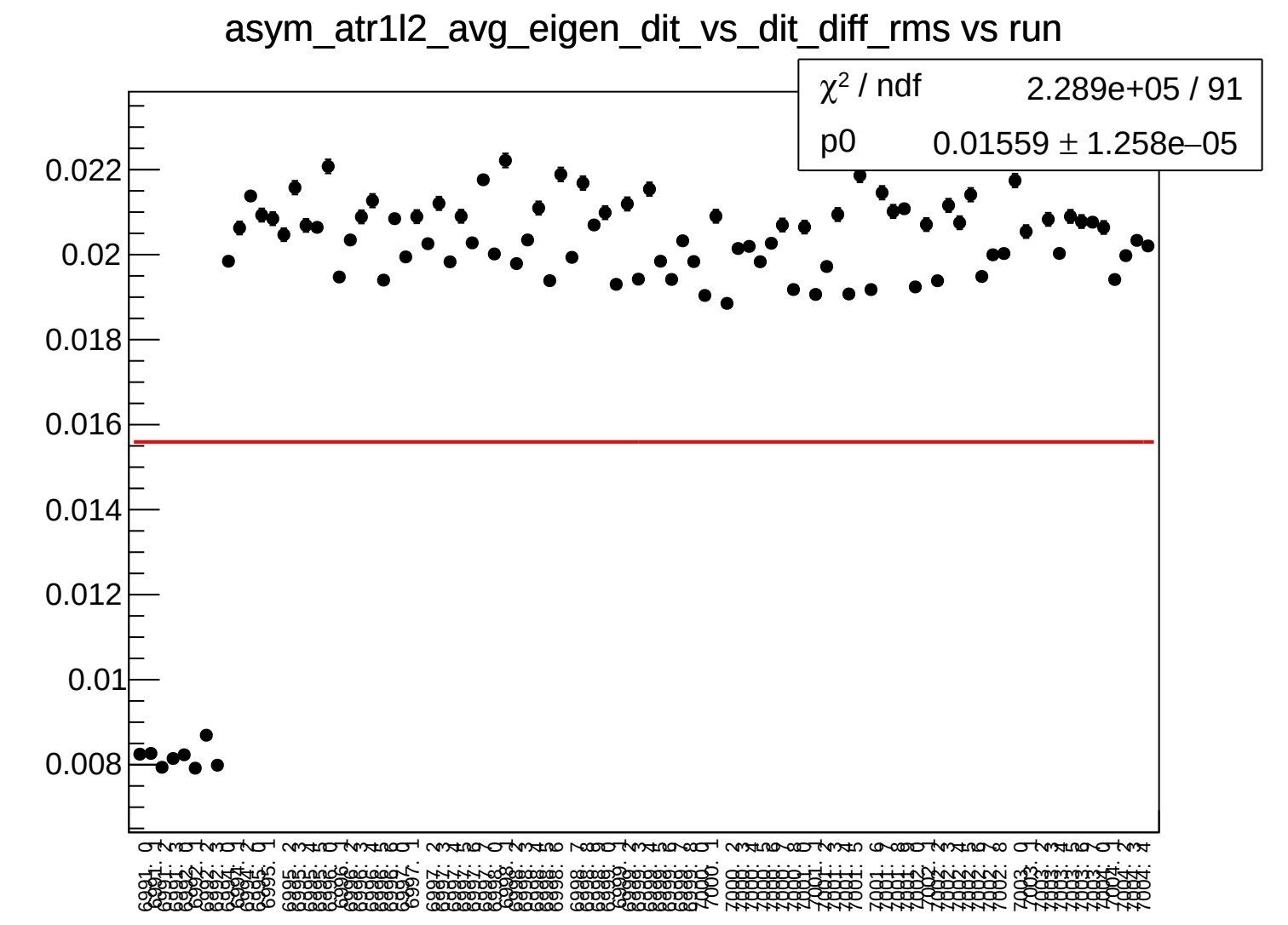

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.217e+04 / 91
p0 376.4 ± 0.2859
600
550
500
450
400
350
300

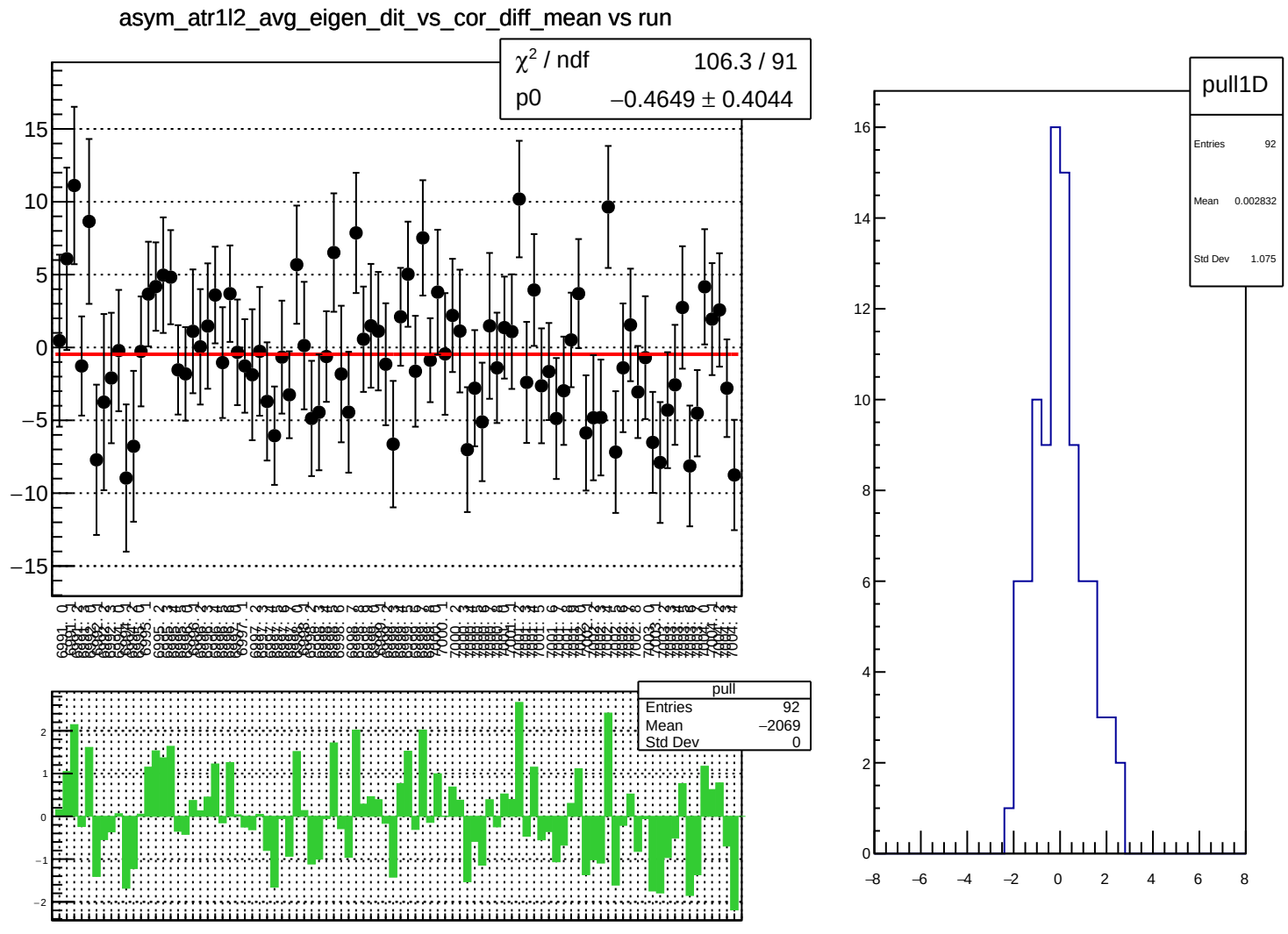

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 91
p0 −0.4649 ± 0.4044
pull
Entries 92
Mean −2070
Std Dev 0
pull1D
Entries 92
Mean 0.002831
Std Dev 1.075

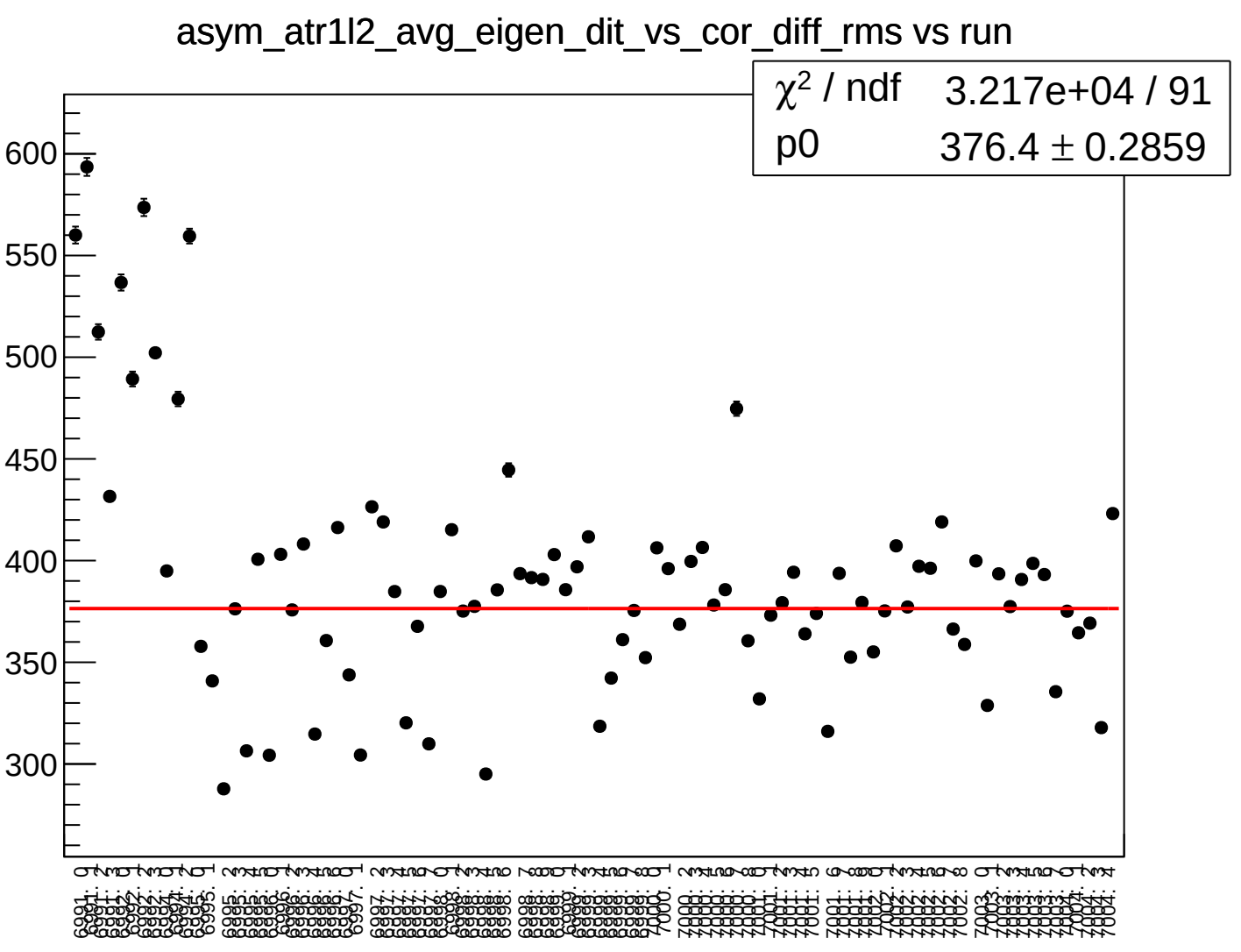

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.217e+04 / 91
p0 376.4 ± 0.2859
600
550
500
450
400
350
300

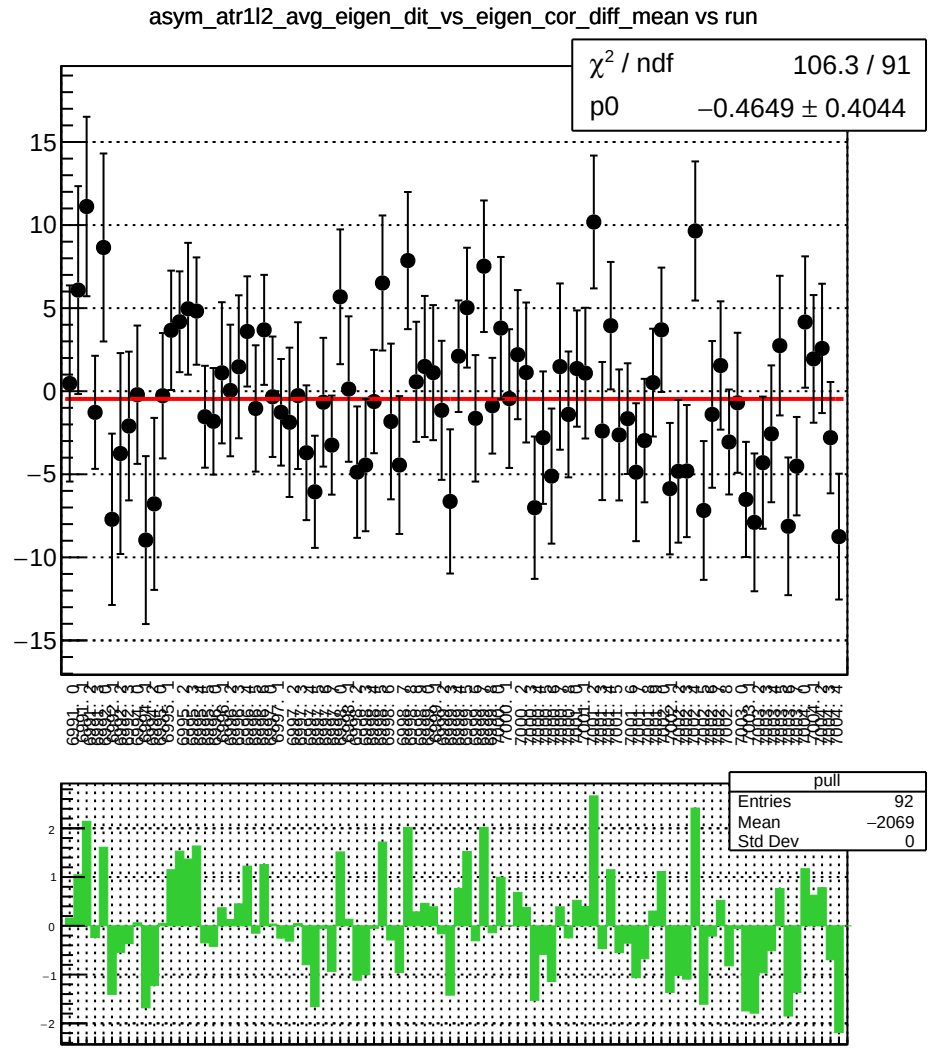

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.05 / 91
p0 −5.794e−06 ± 1.779e−05
pull
Entries 92
Mean 73.6
Std Dev 0

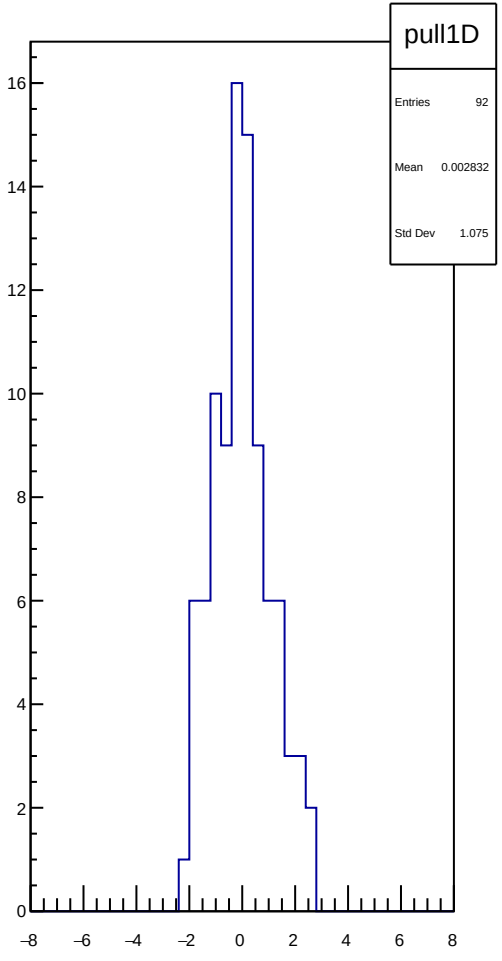

pull1D
Entries 92
Mean −0.04904
Std Dev 1.01

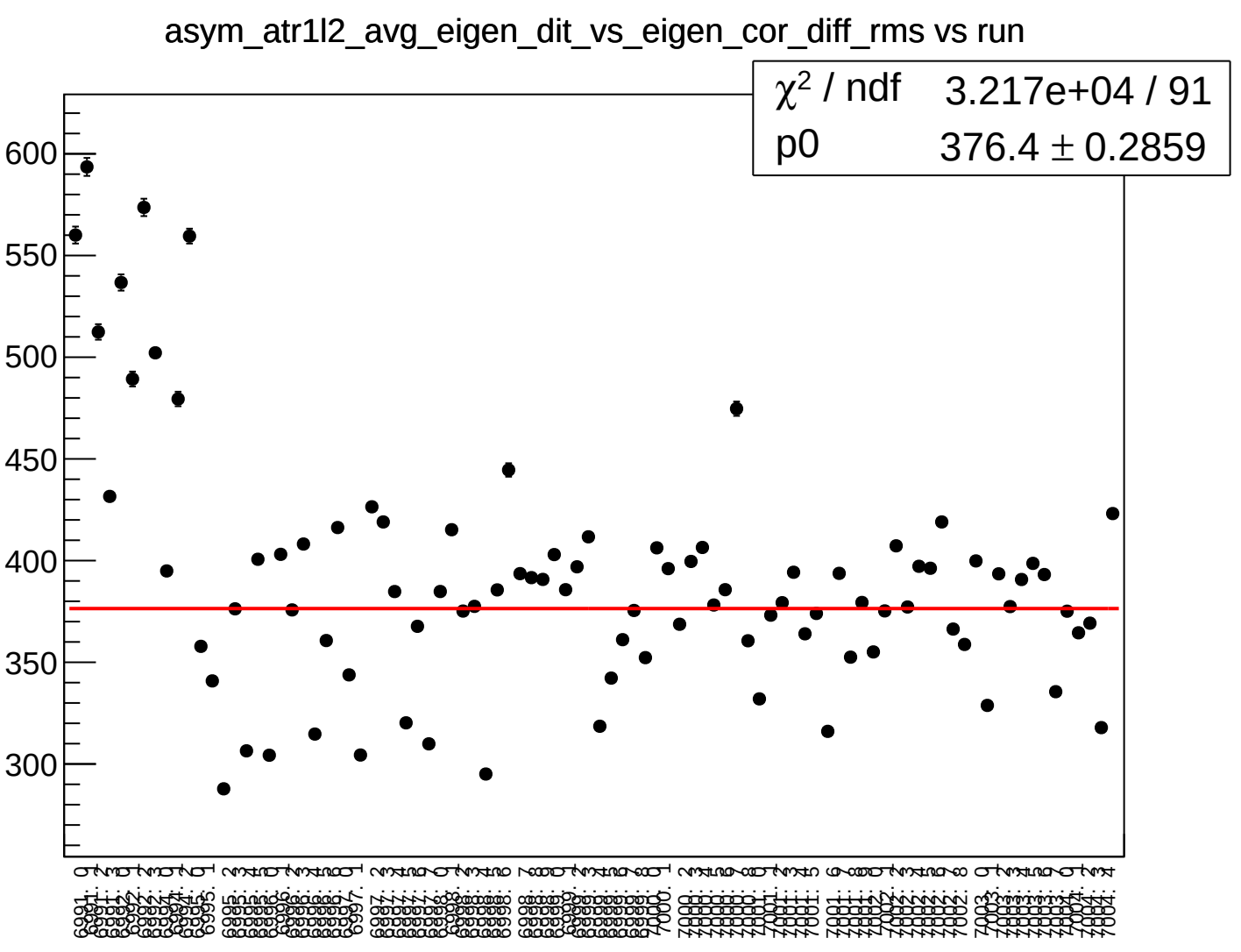

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.289e+05 / 91
p0 0.01559 ± 1.258e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

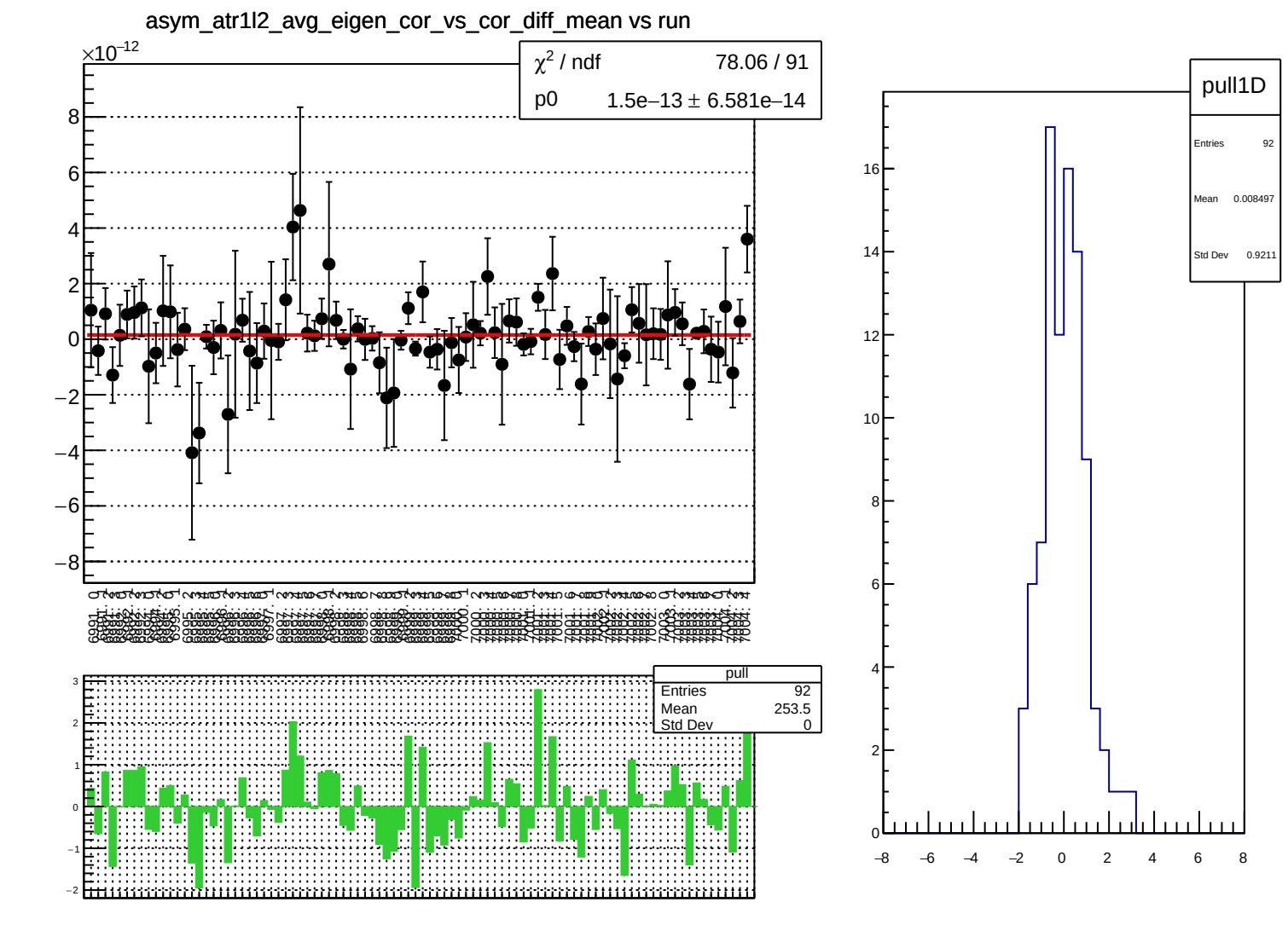

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 91
p0 −0.4649 ± 0.4044
pull
Entries 92
Mean −2069
Std Dev 0
pull1D
Entries 92
Mean 0.002832
Std Dev 1.075

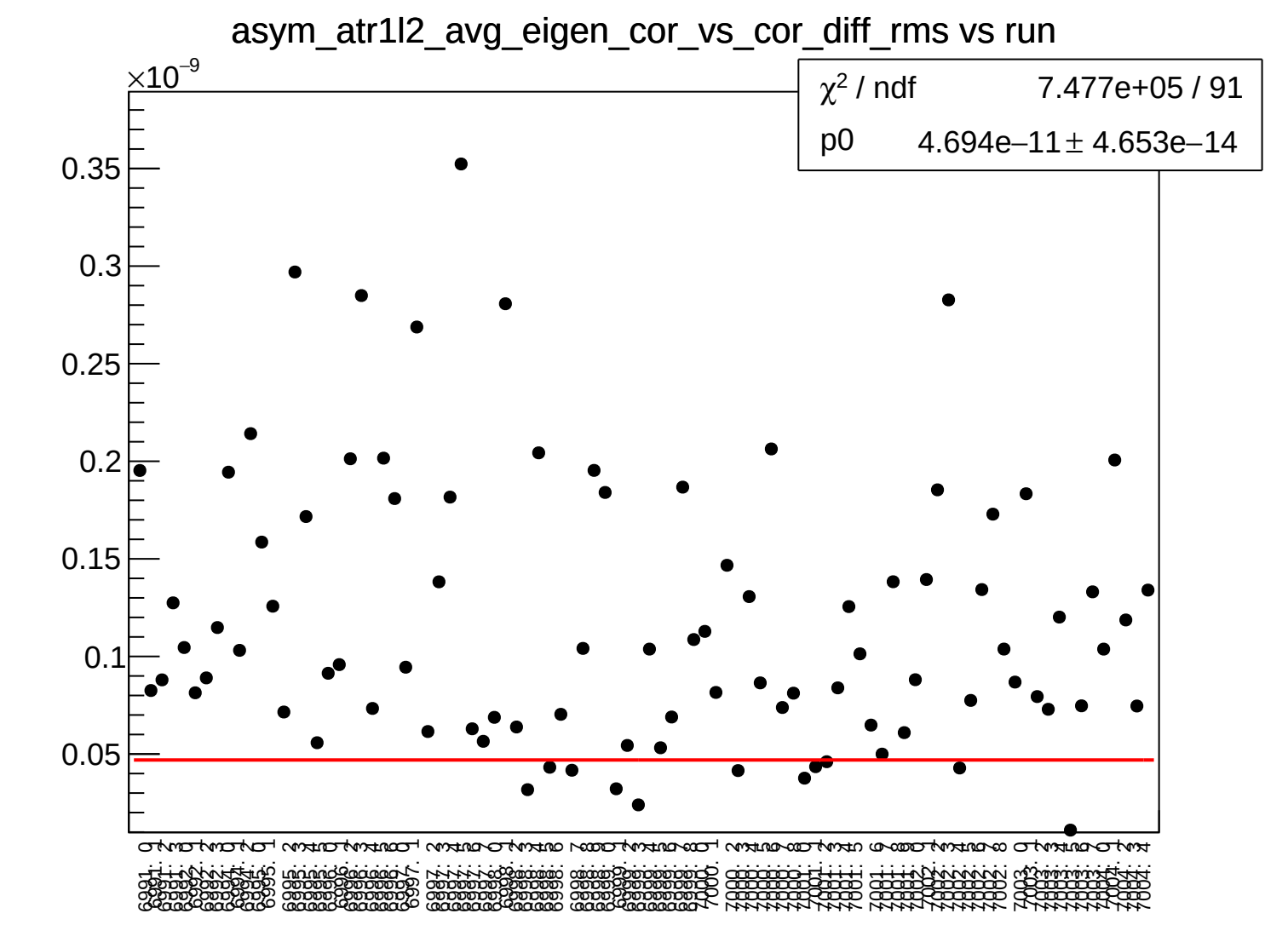

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.217e+04 / 91
p0 376.4 ± 0.2859
600
550
500
450
400
350
300

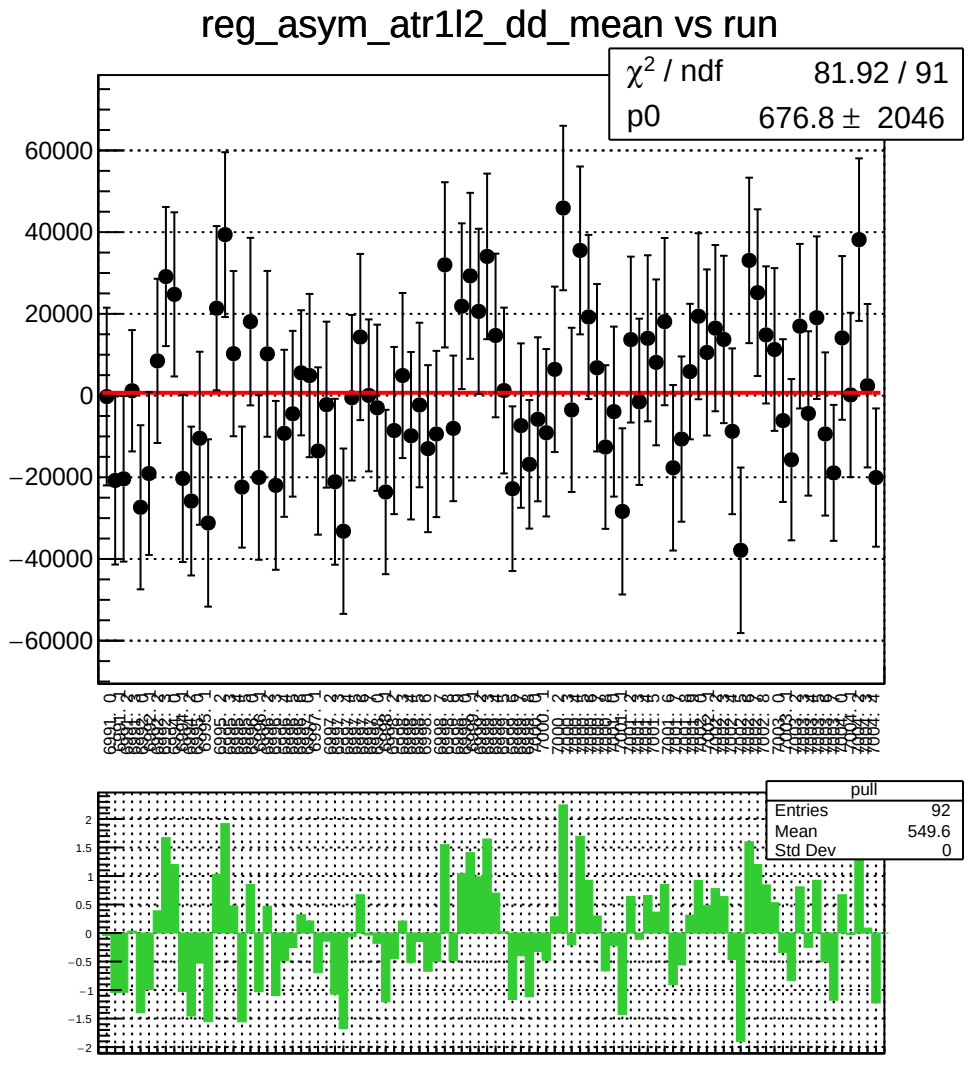

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 91
p0 −0.4649 ± 0.4044
pull
Entries 92
Mean −2069
Std Dev 0

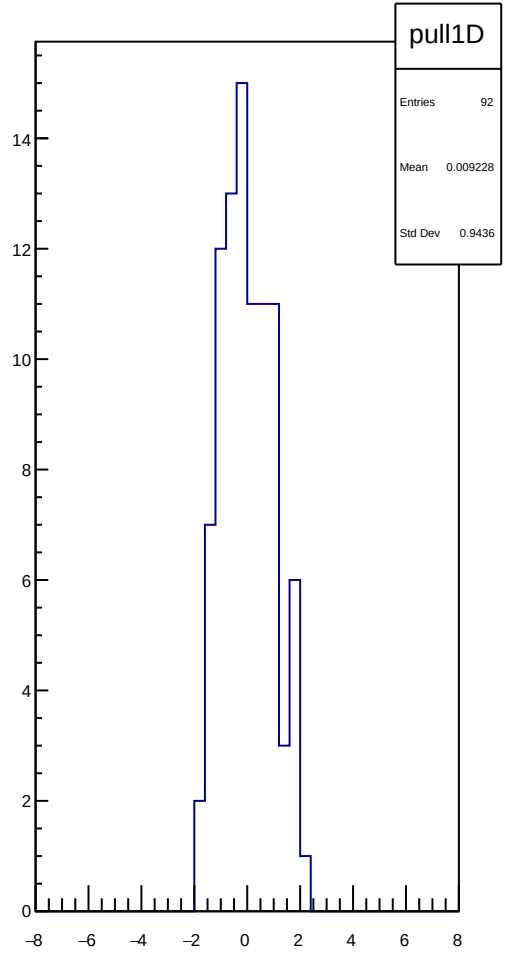

pull1D
Entries 92
Mean 0.002832
Std Dev 1.075

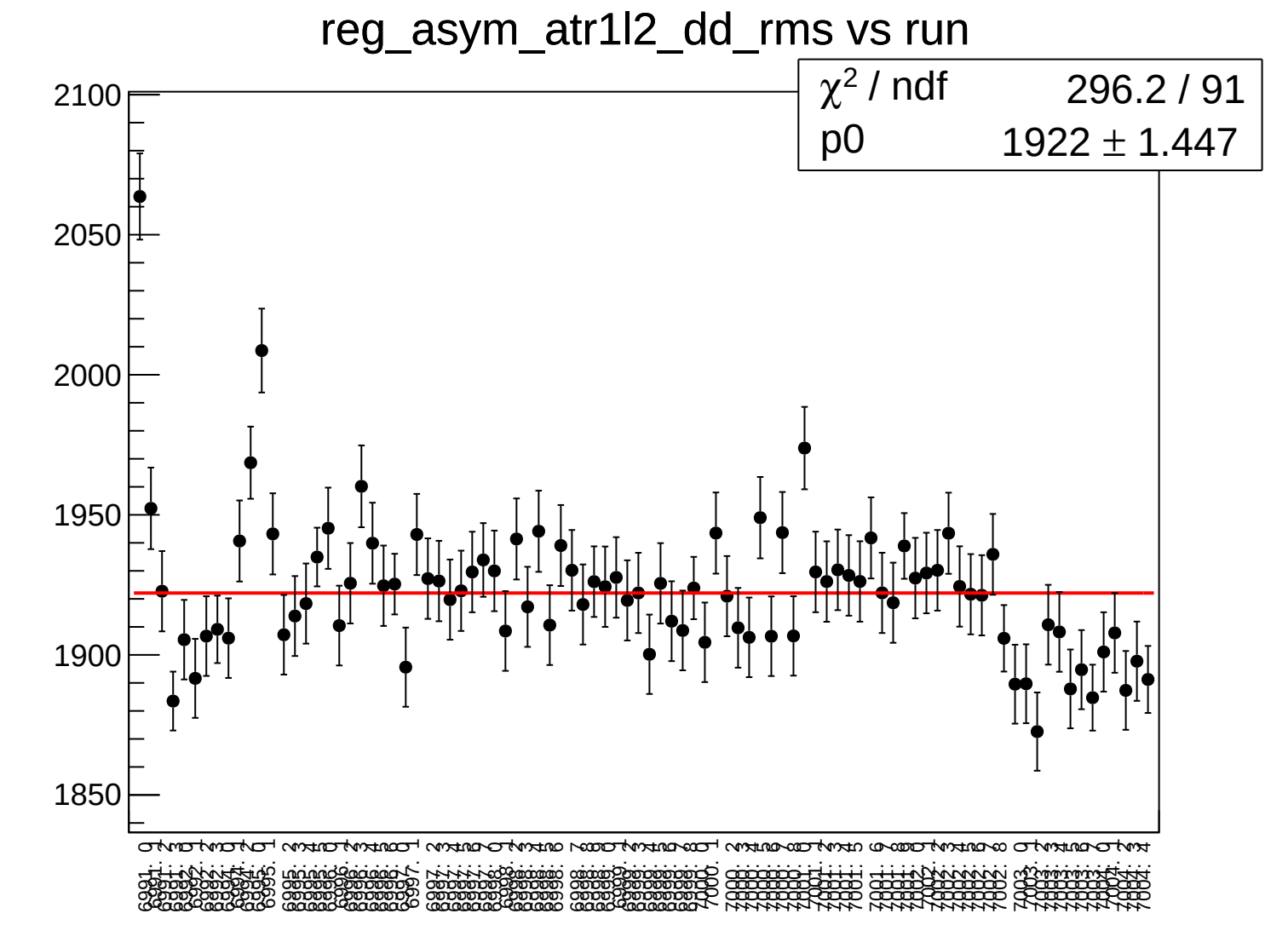

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.217e+04 / 91
p0 376.4 ± 0.2859
600
550
500
450
400
350
300

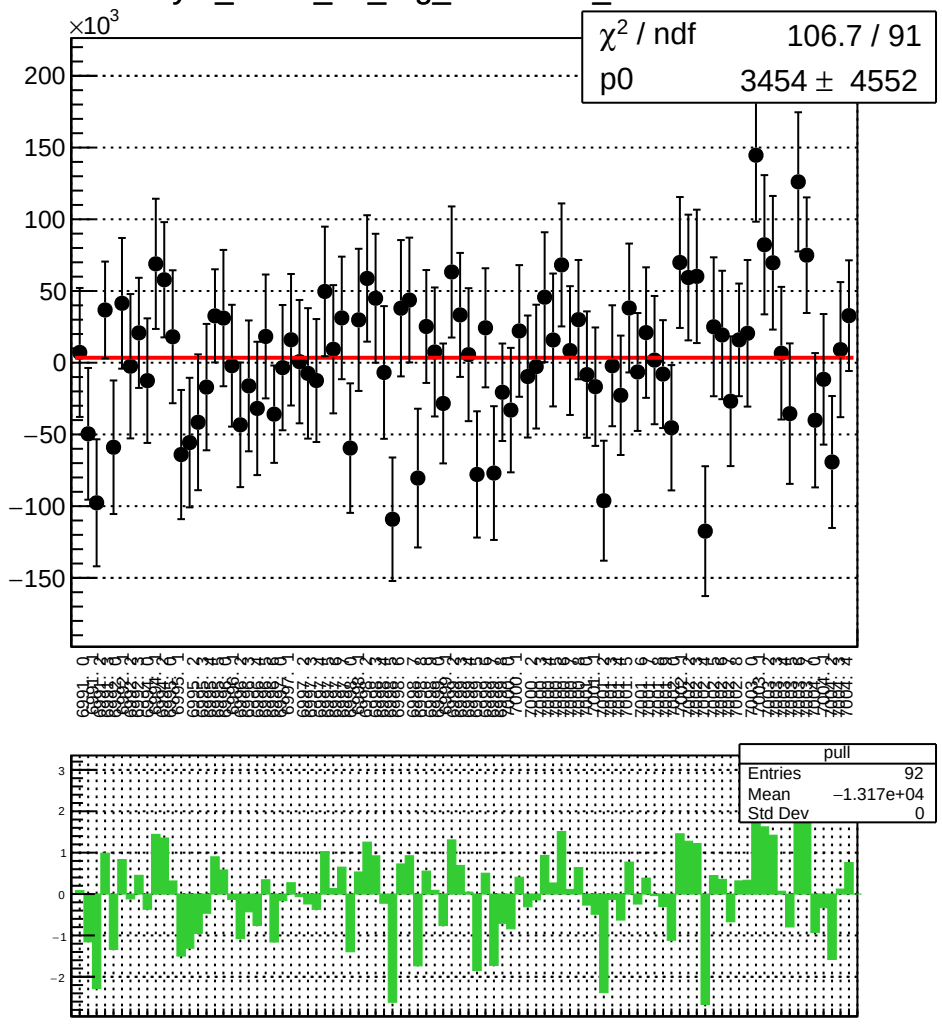

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.06 / 91
p0 1.5e−13 ± 6.581e−14
pull
Entries 92
Mean 253.5
Std Dev 0
pull1D
Entries 92
Mean 0.008497
Std Dev 0.9211

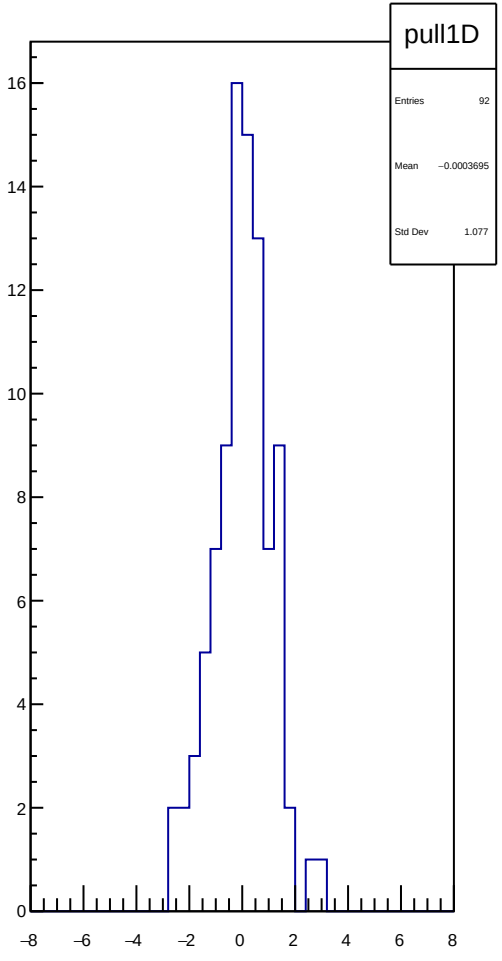

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.477e+05 / 91
p0 4.694e−11 ± 4.653e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

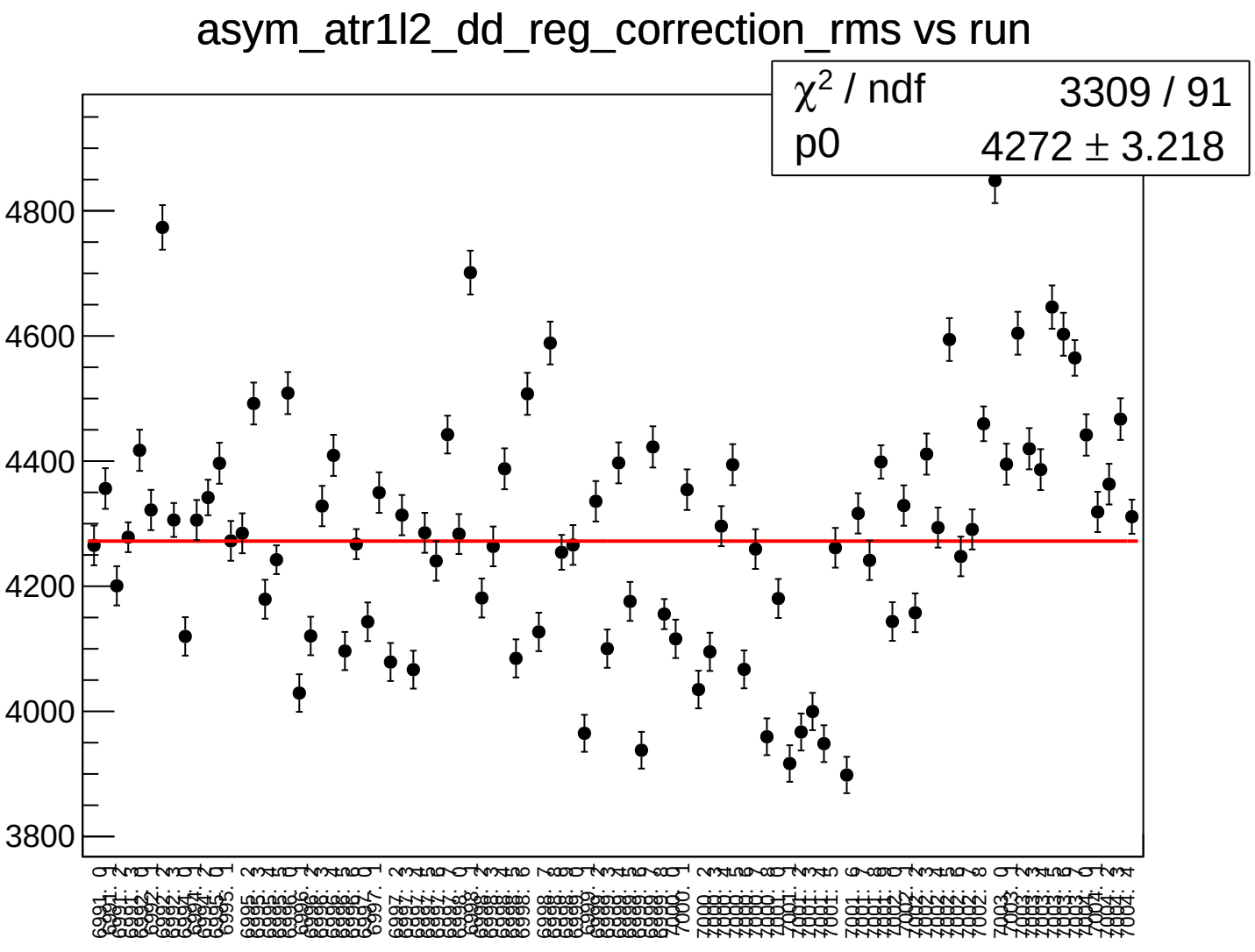

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 81.92 / 91
p0 676.8 ± 2046
pull
Entries 92
Mean 549.6
Std Dev 0

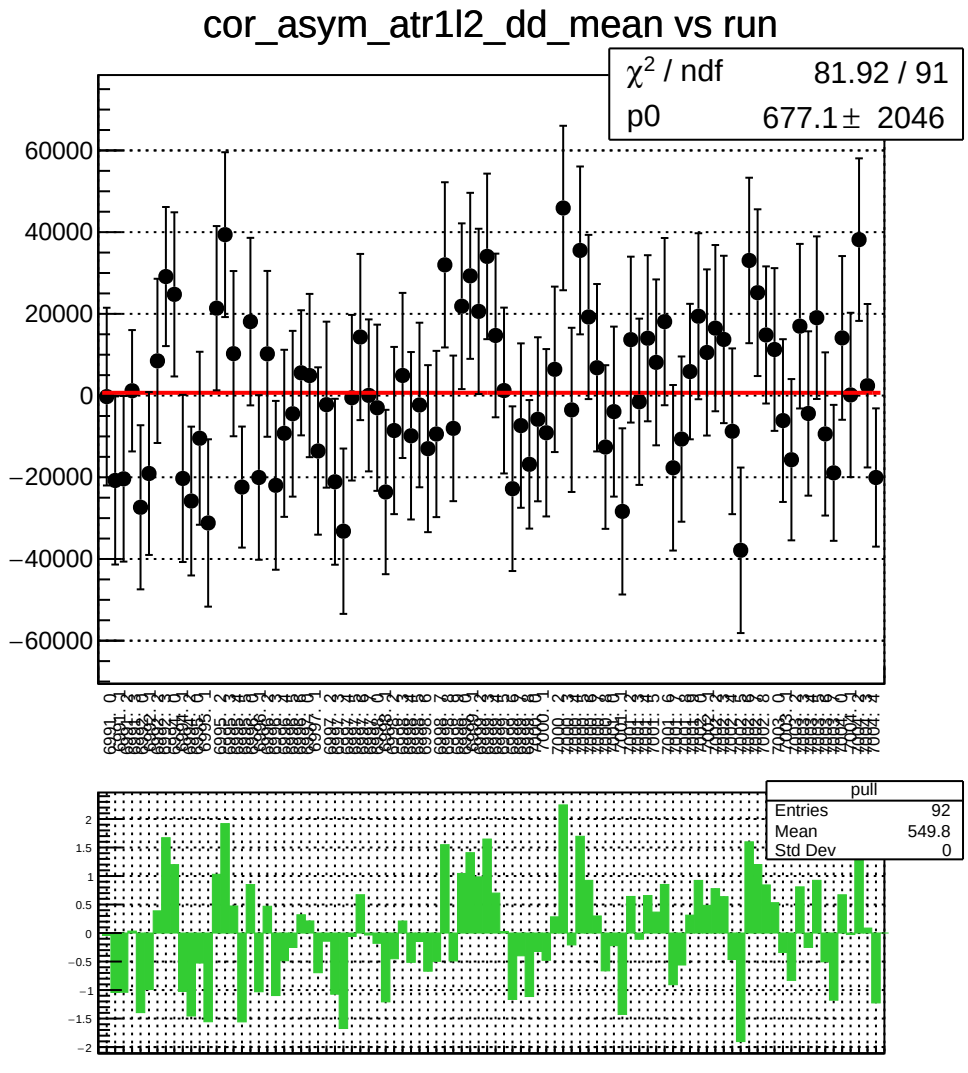

pull1D
Entries 92
Mean 0.009228
Std Dev 0.9436

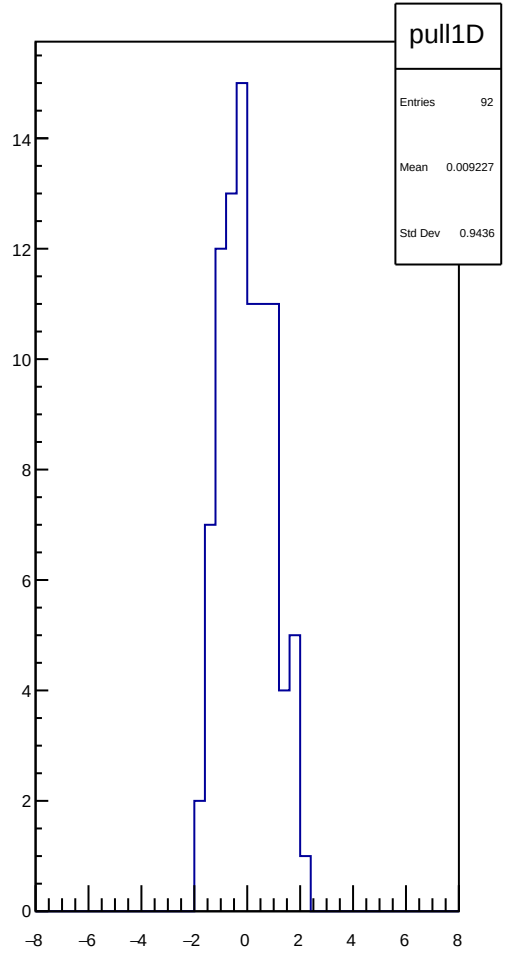

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 296.2 / 91
p0 1922 ± 1.447
2100
2050
2000
1950
1900
1850

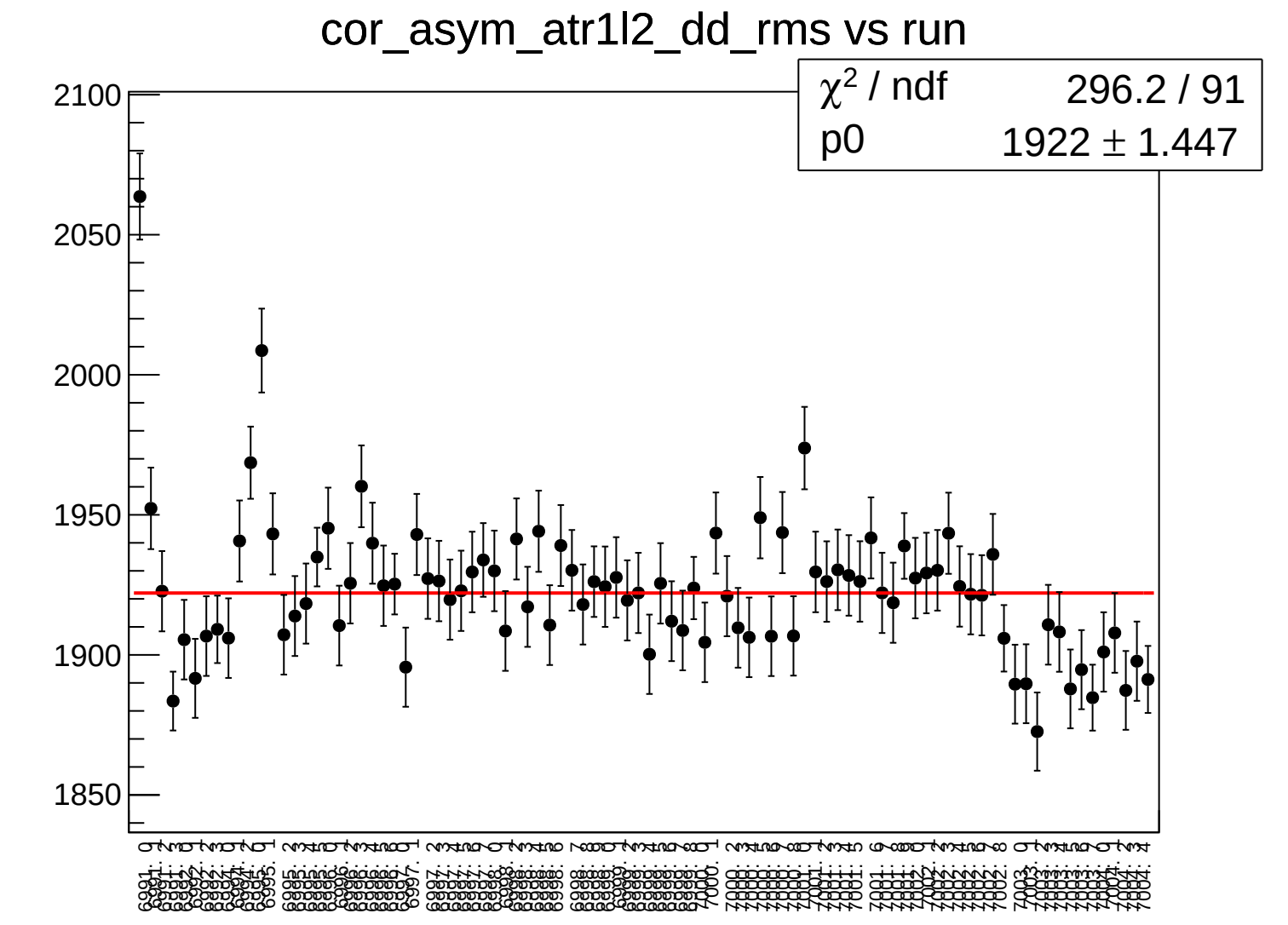

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106.7 / 91
p0 3454 ± 4552
pull
Entries 92
Mean −1.317e+04
Std Dev 0

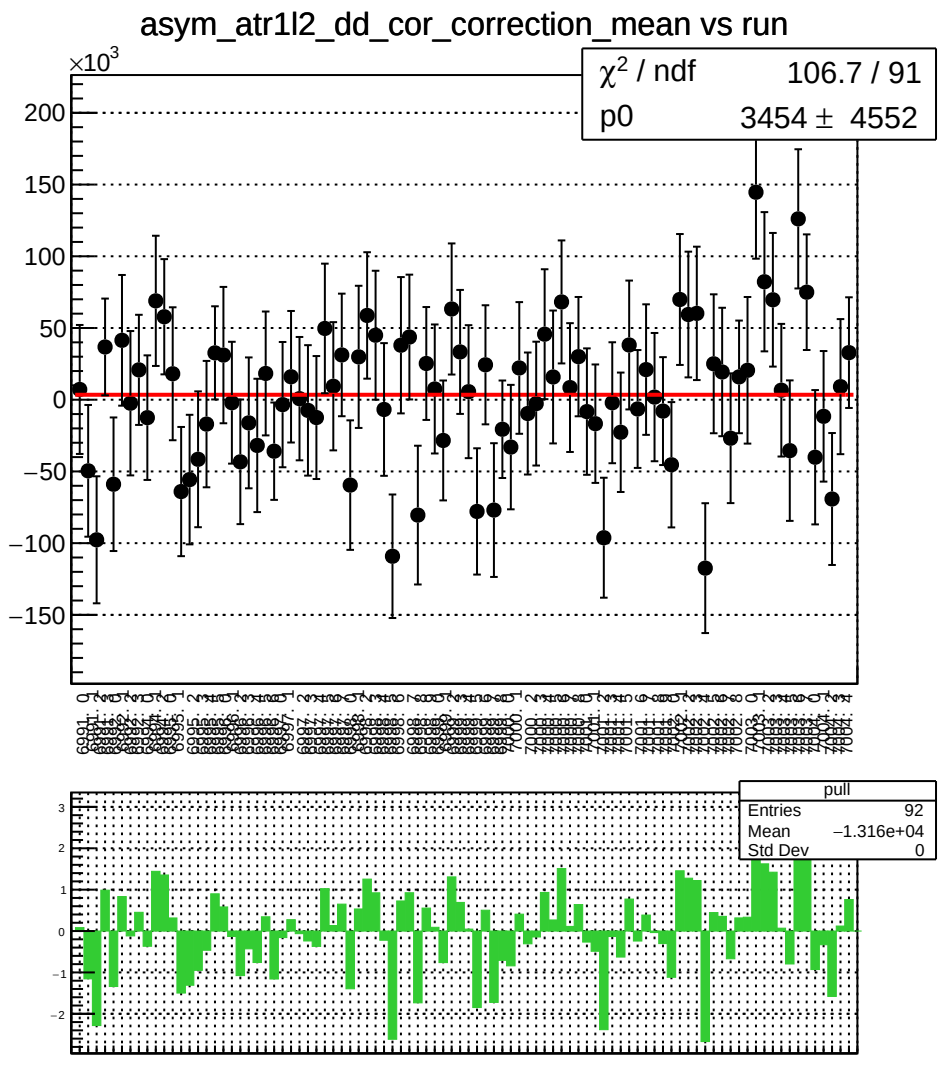

pull1D
Entries 92
Mean −0.0003695
Std Dev 1.077

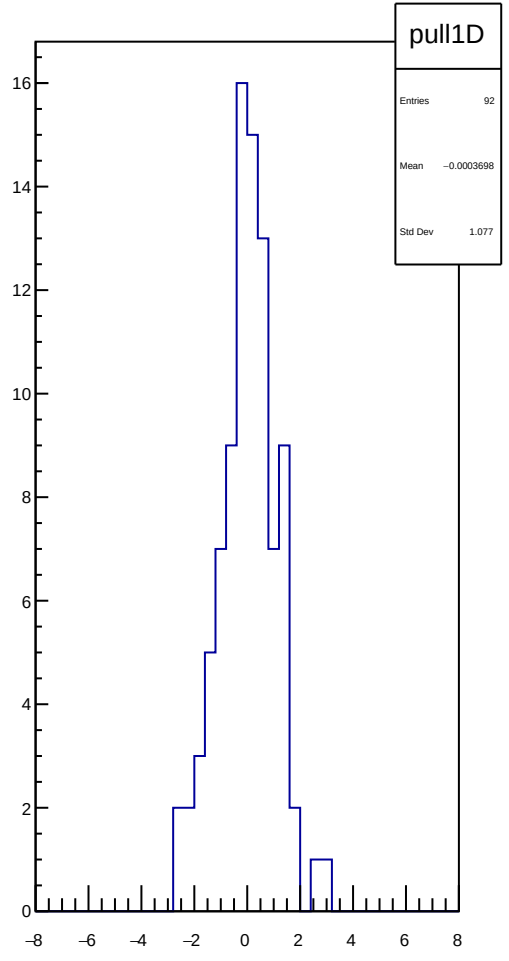

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3309 / 91
p0 4272 ± 3.218
4800
4600
4400
4200
4000
3800

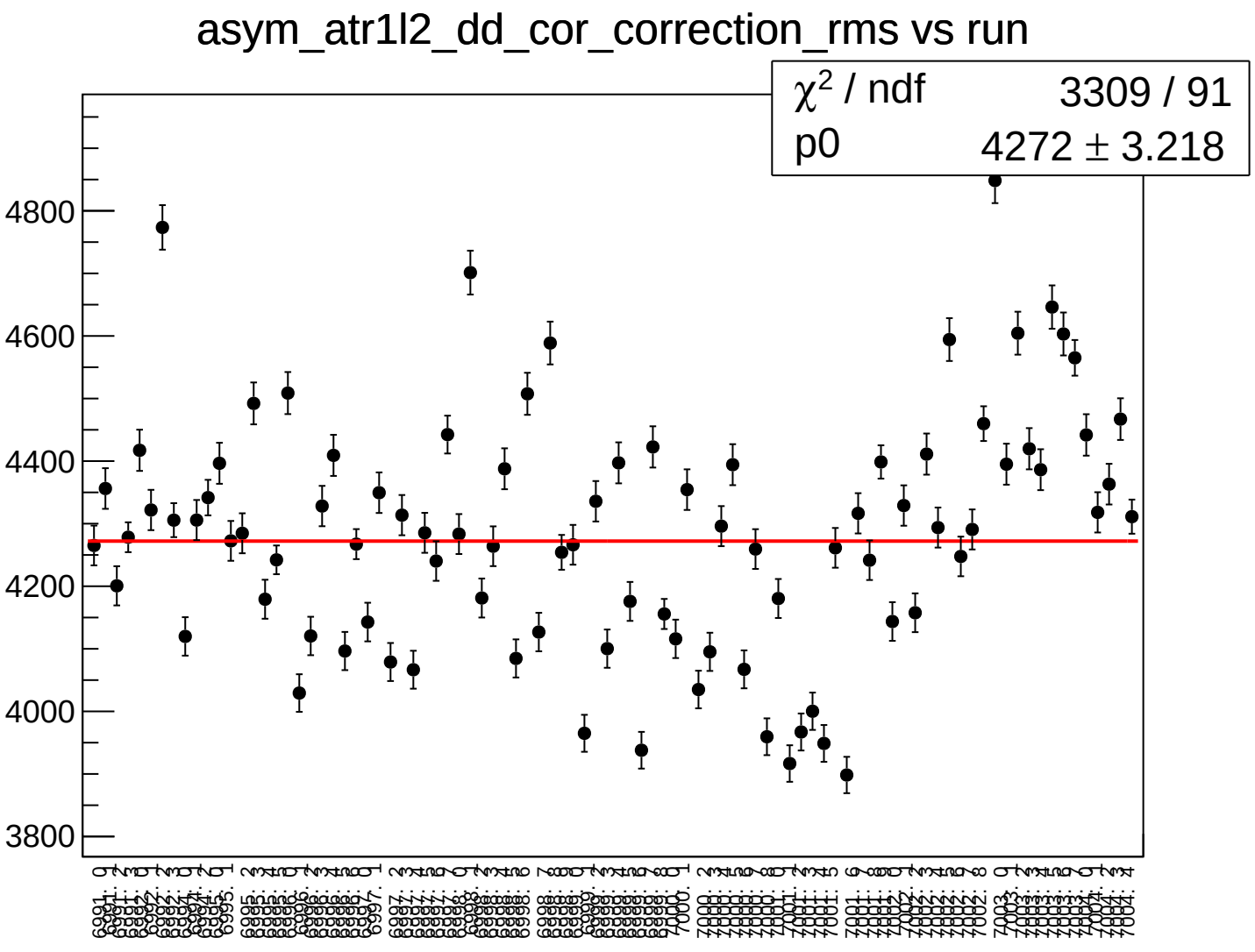

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 81.92 / 91
p0 677.1 ± 2046
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 549.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

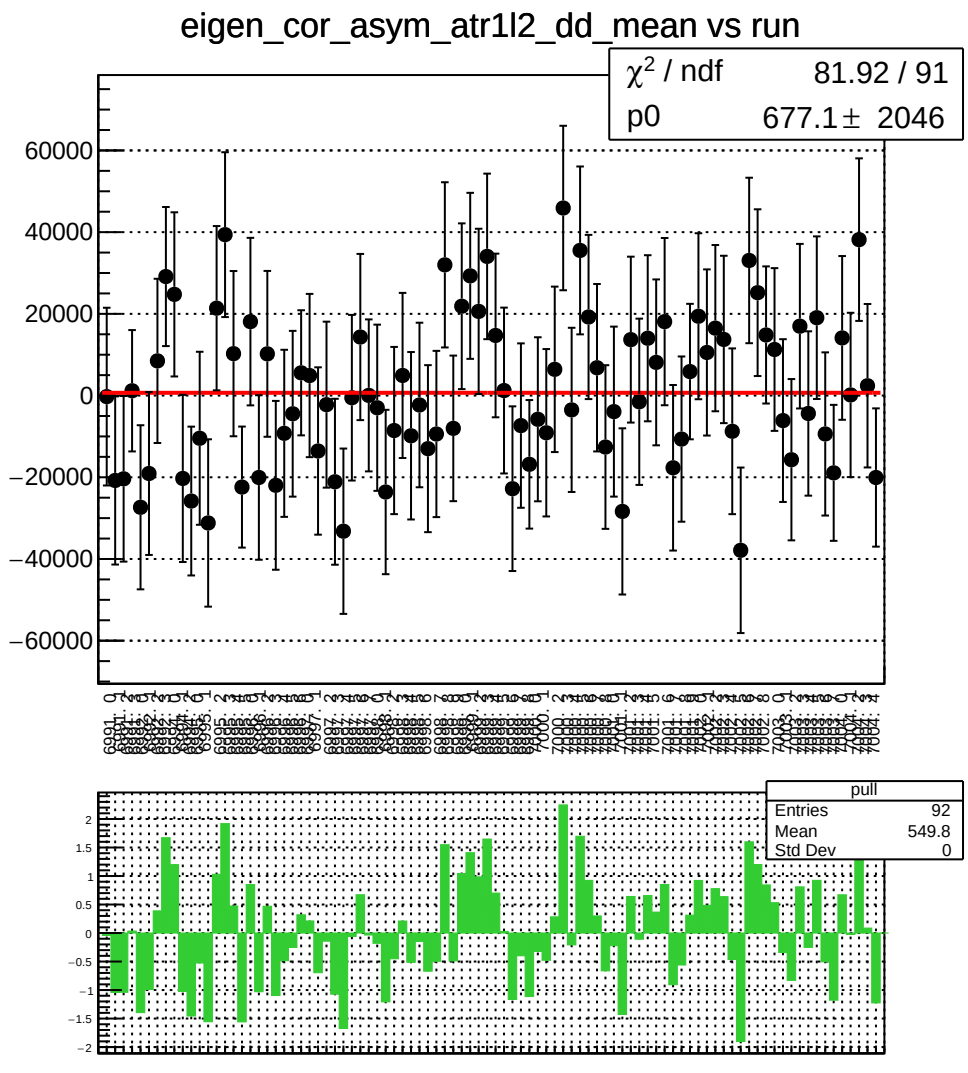

pull1D
Entries 92
Mean 0.009227
Std Dev 0.9436
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

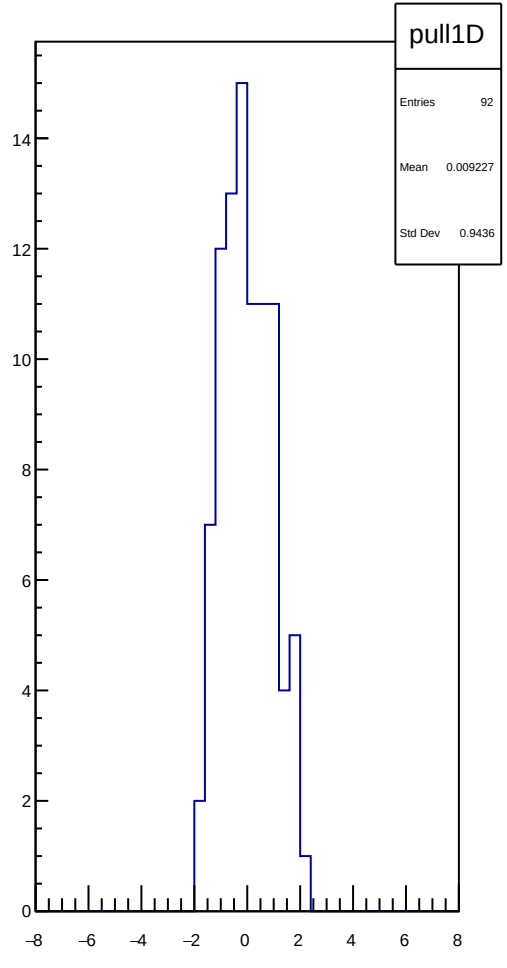

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 296.2 / 91
p0 1922 ± 1.447
2100
2050
2000
1950
1900
1850

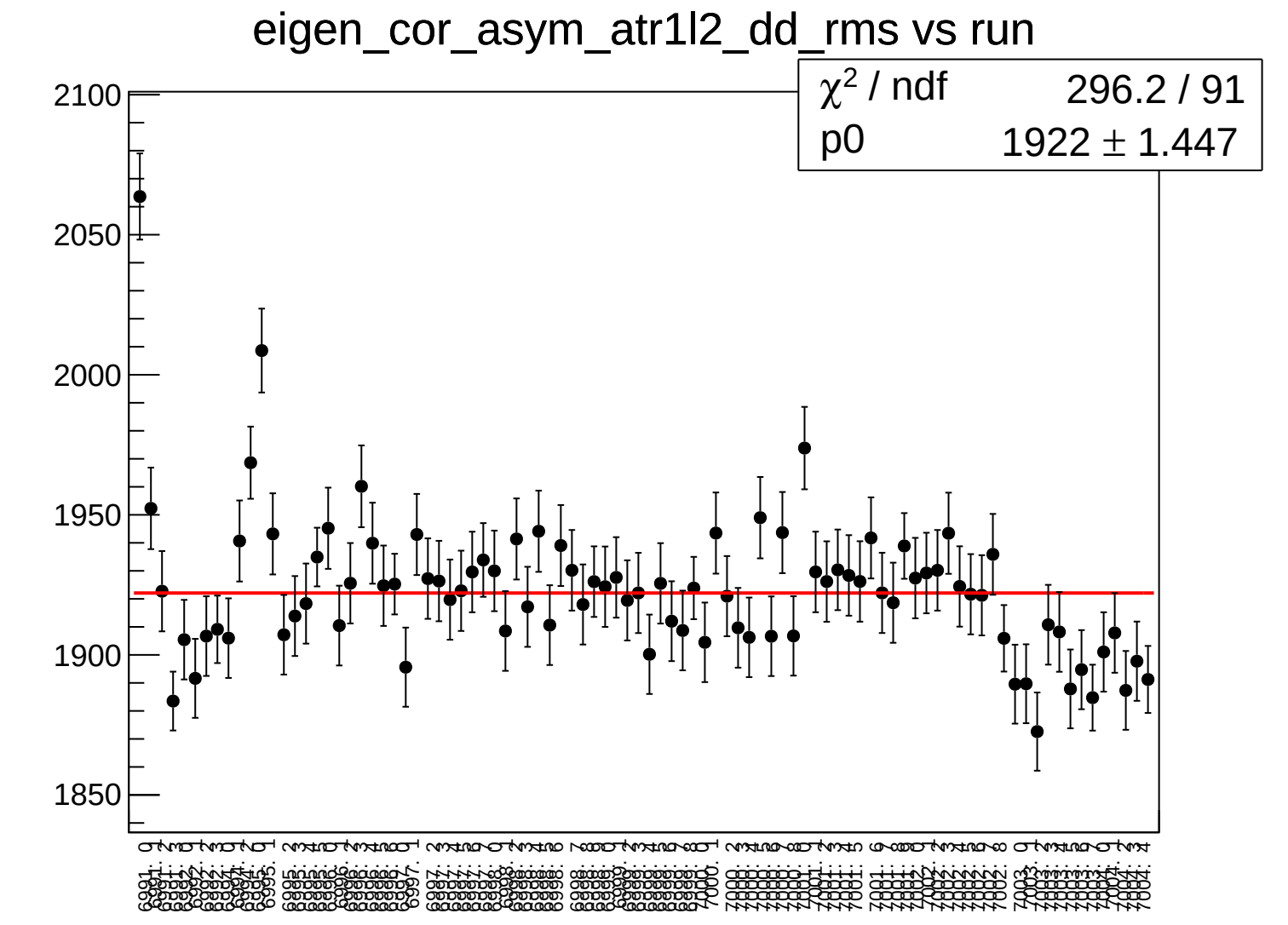

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 106.7 / 91
p0 3454 ± 4552
200
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1.316e+04
Std Dev 0
3
2
1
0
−1
−2

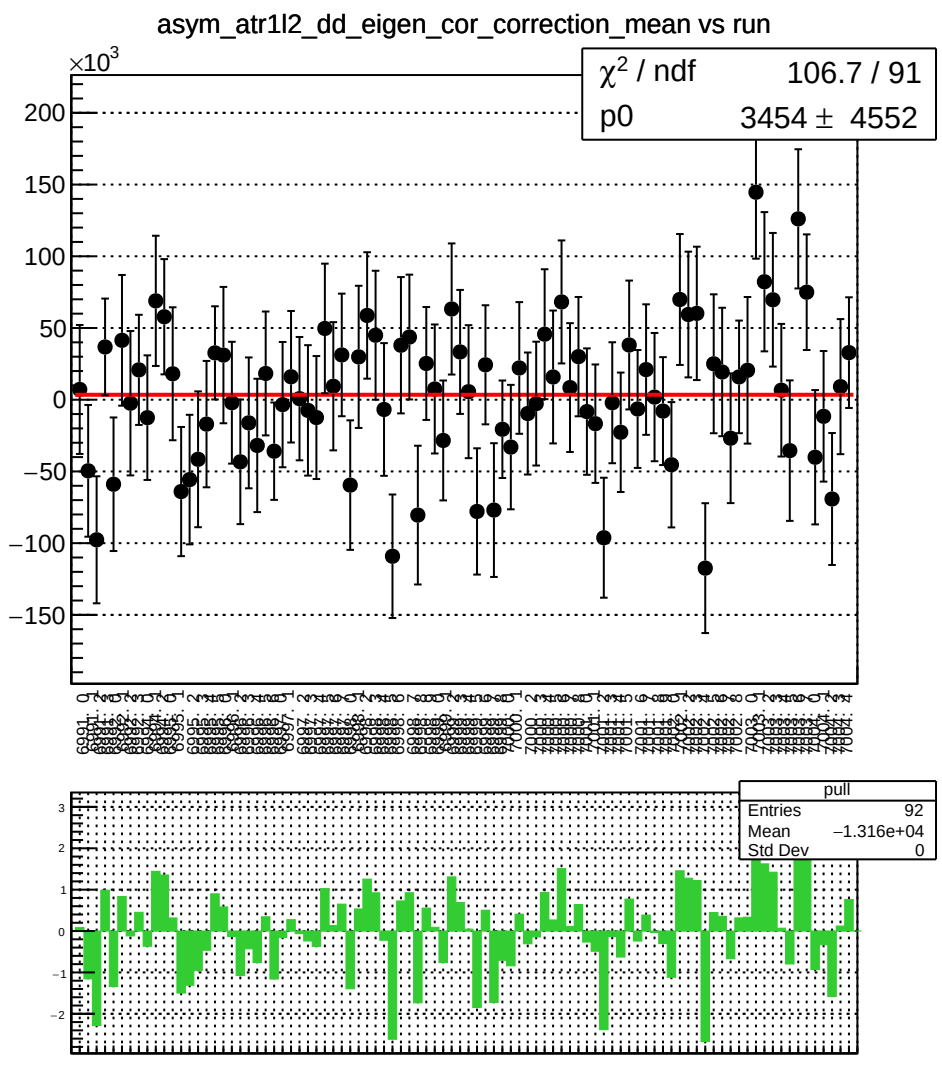

pull1D
Entries 92
Mean −0.0003698
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

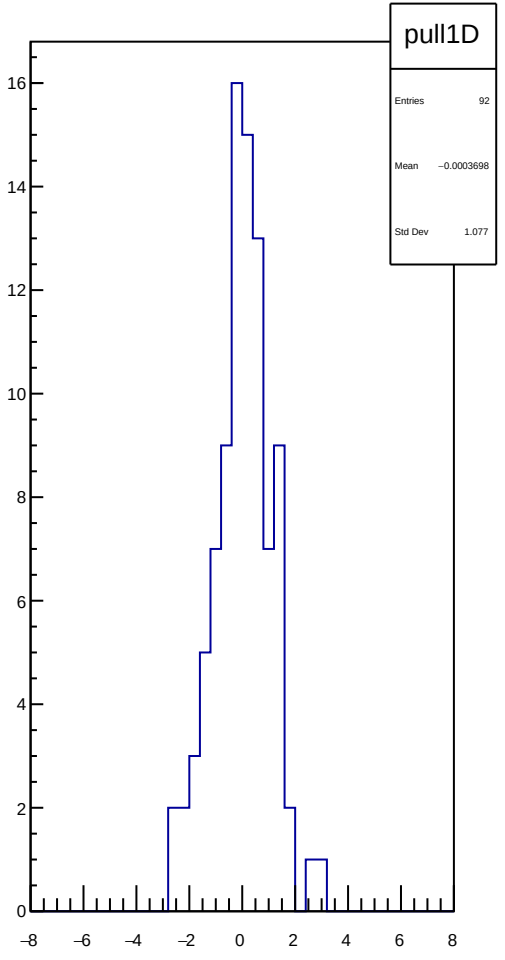

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3309 / 91
p0 4272 ± 3.218
4800
4600
4400
4200
4000
3800

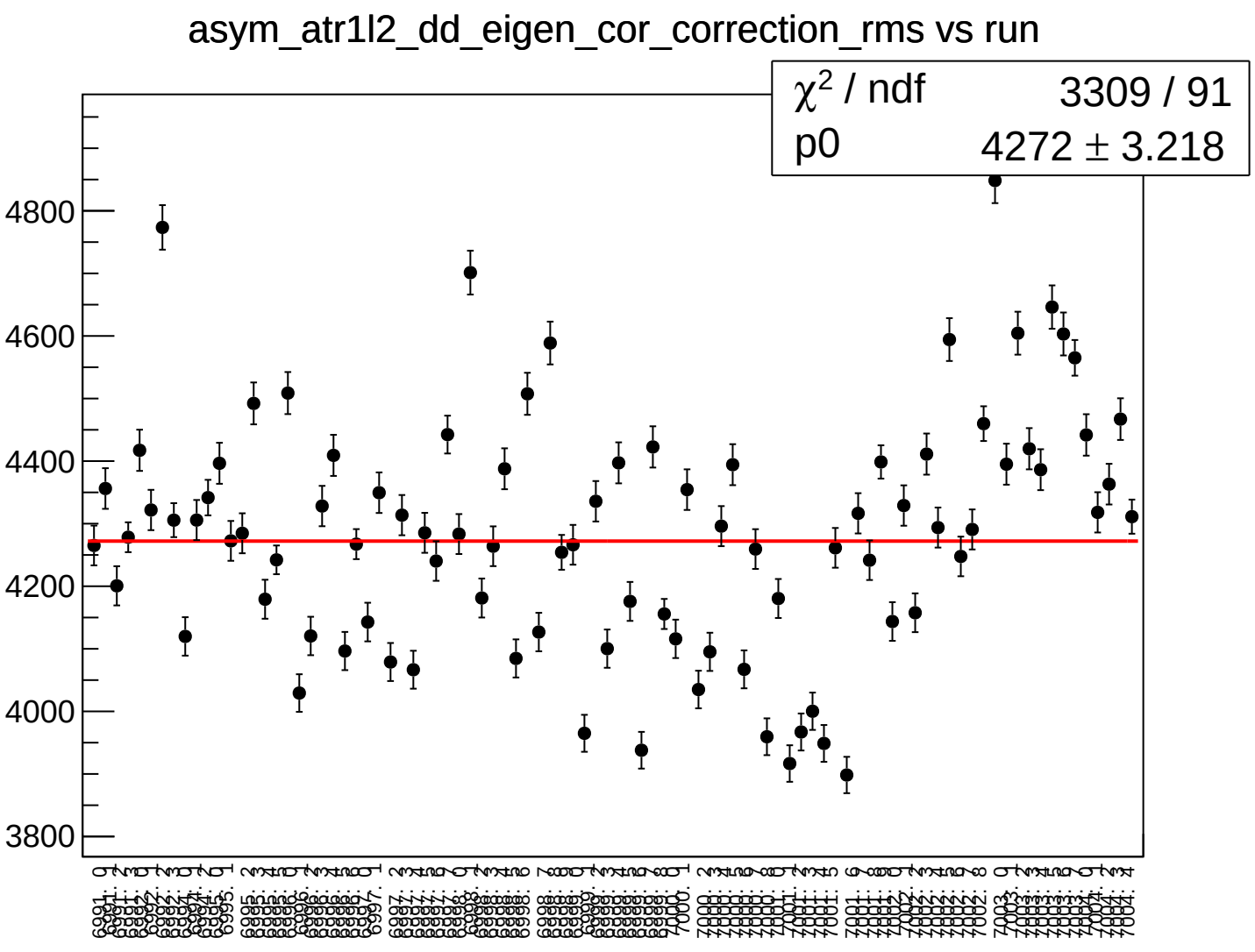

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 81.92 / 91
p0 677.1 ± 2046
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 549.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

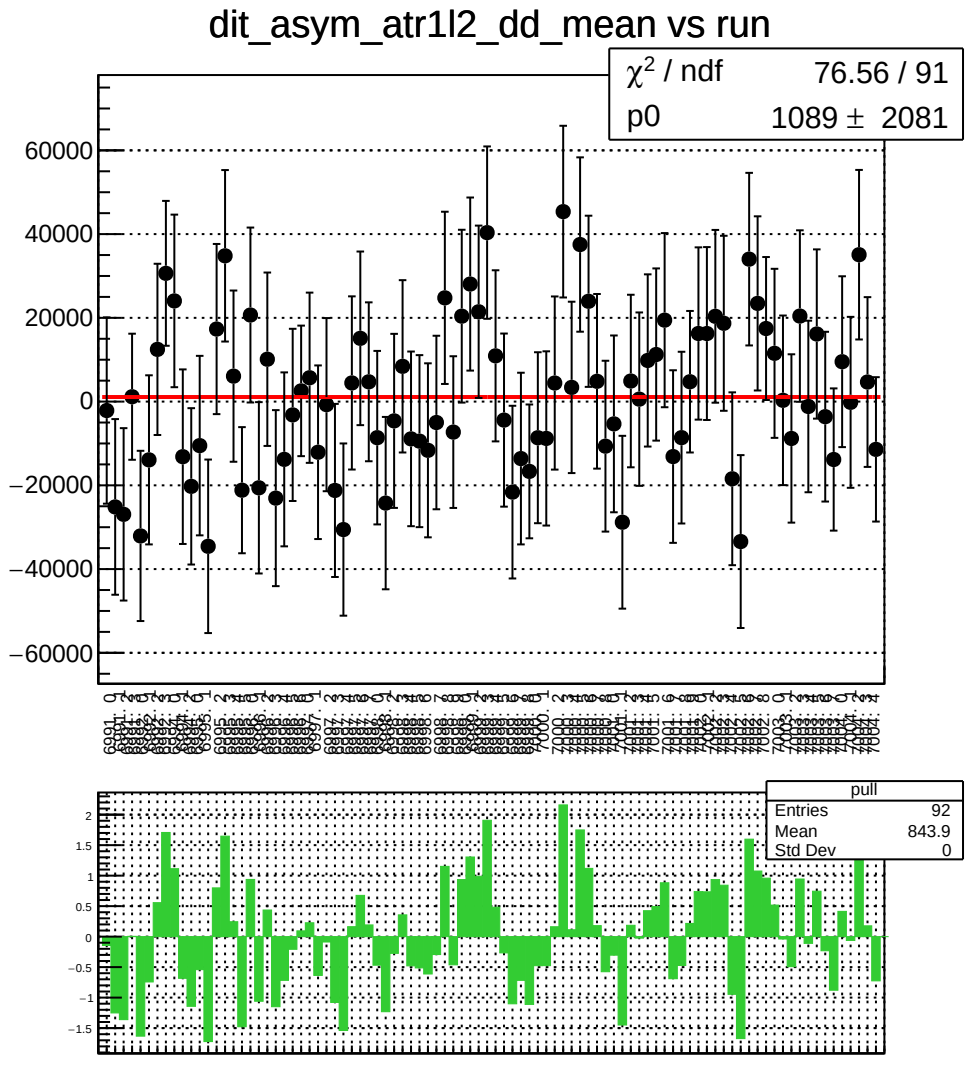

pull1D
Entries 92
Mean 0.009227
Std Dev 0.9436
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

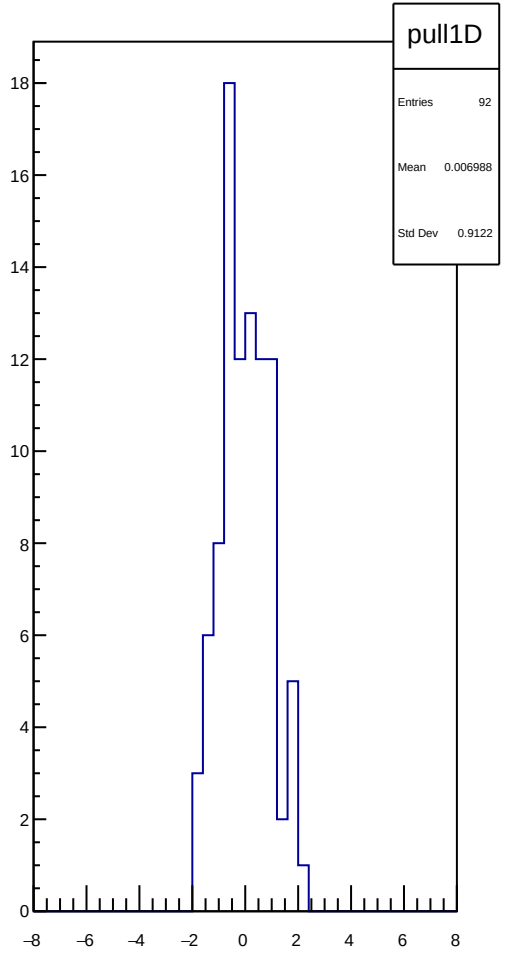

eigen_cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 296.2 / 91
p0 1922 ± 1.447
2100
2050
2000
1950
1900
1850

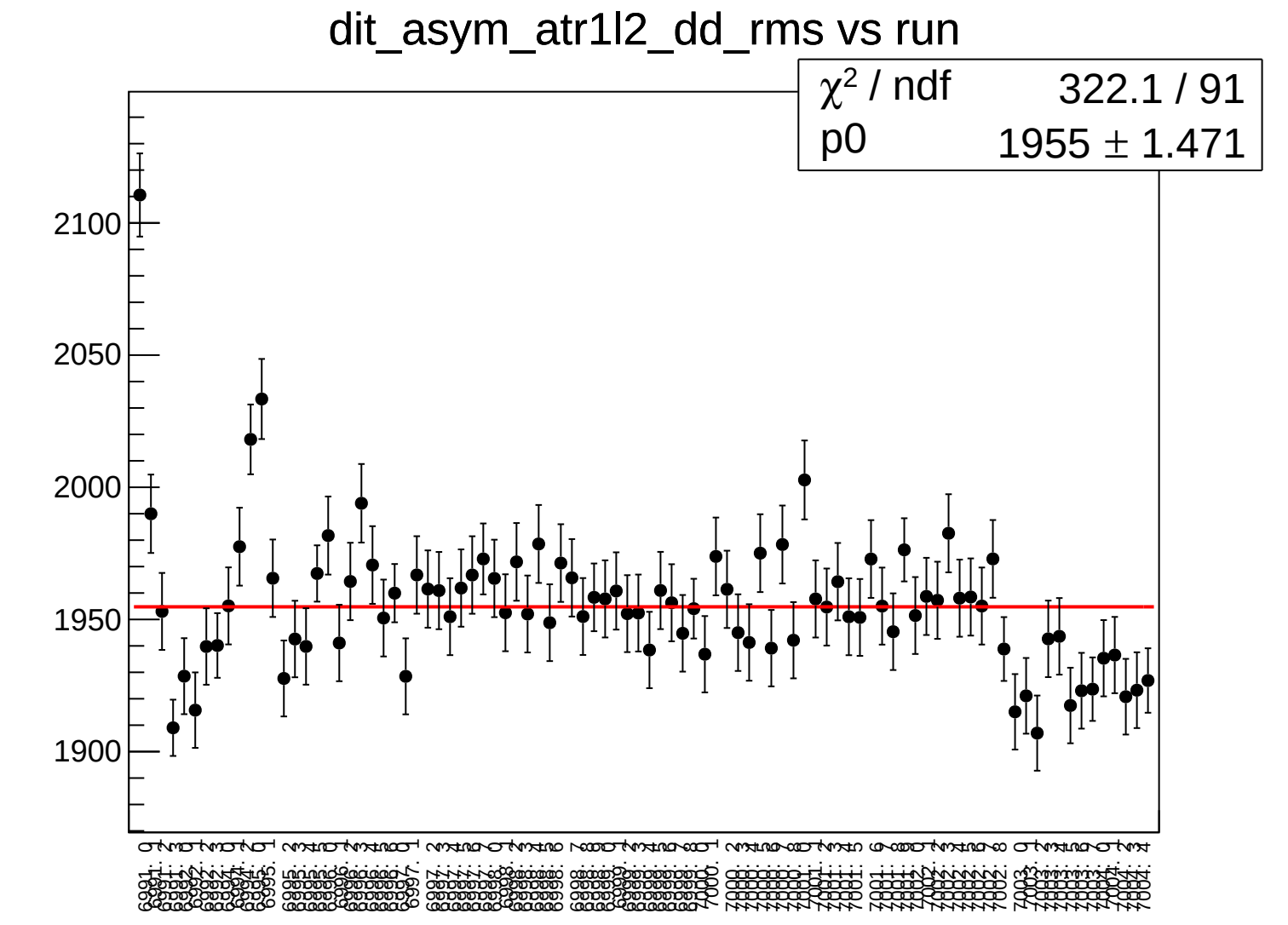

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.7 / 91
p0 3454 ± 4552
pull
Entries 92
Mean −1.316e+04
Std Dev 0

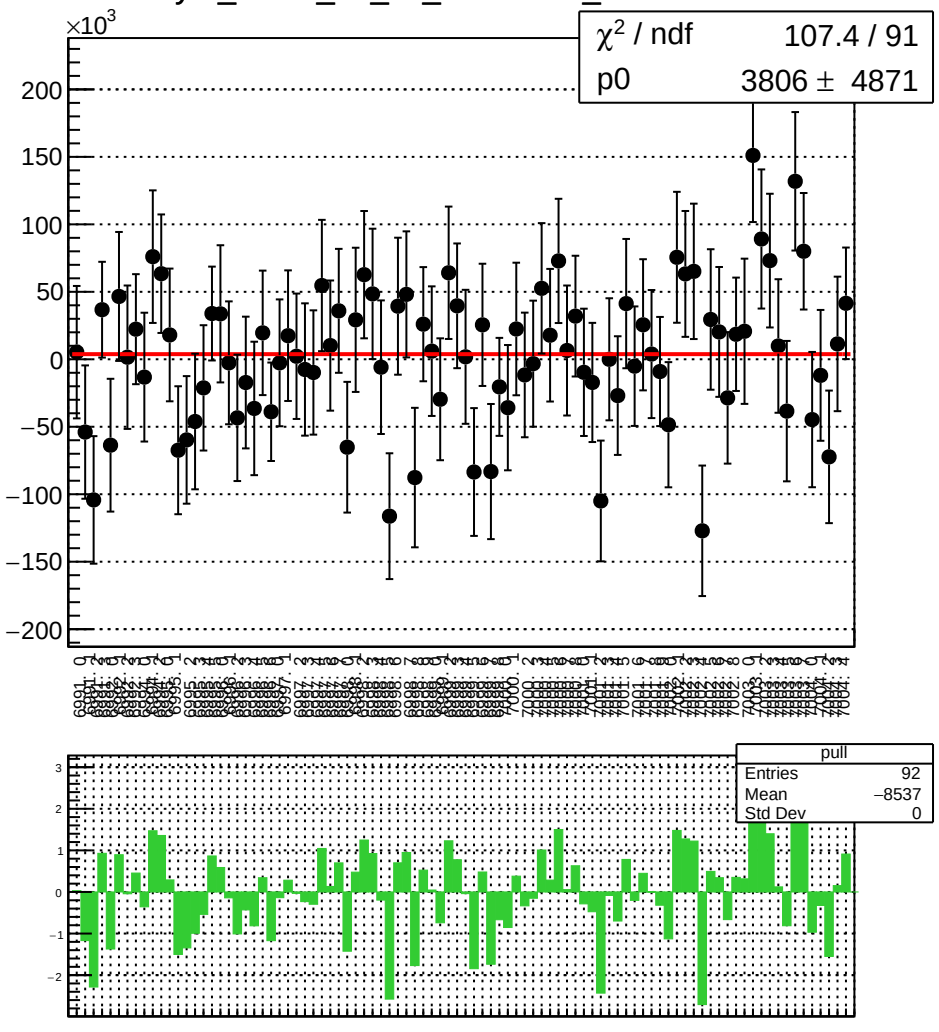

pull1D
Entries 92
Mean −0.0003698
Std Dev 1.077

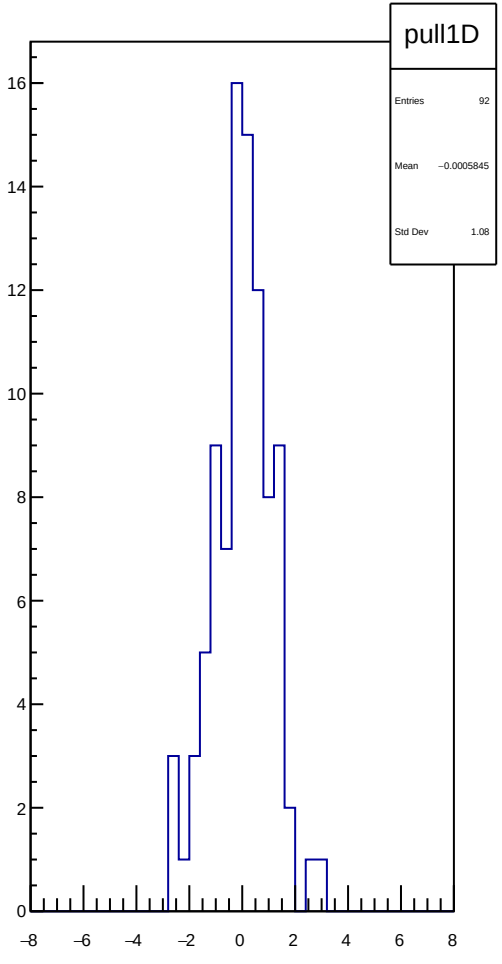

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3309 / 91
p0 4272 ± 3.218
4800
4600
4400
4200
4000
3800

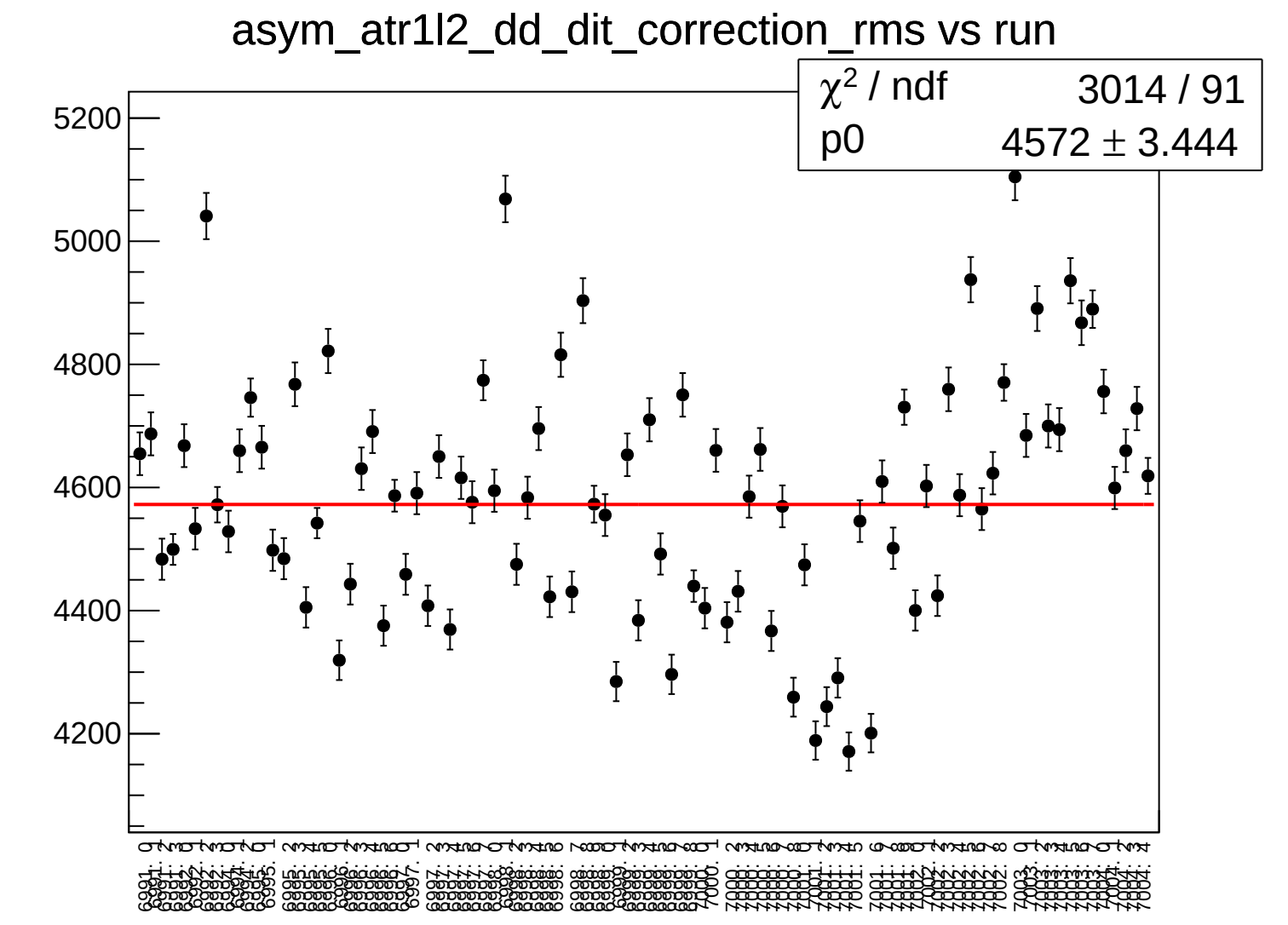

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 76.56 / 91
p0 1089 ± 2081
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 843.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

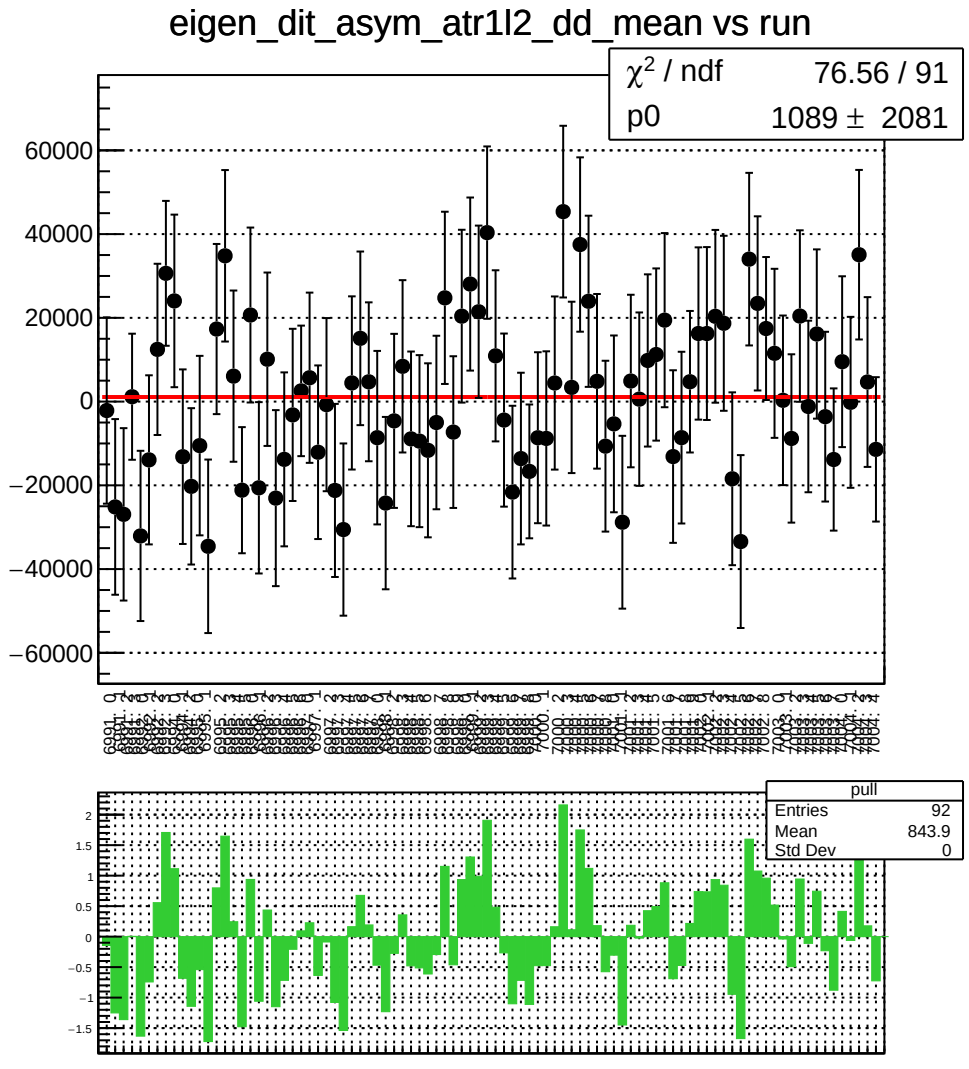

pull1D
Entries 92
Mean 0.006988
Std Dev 0.9122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

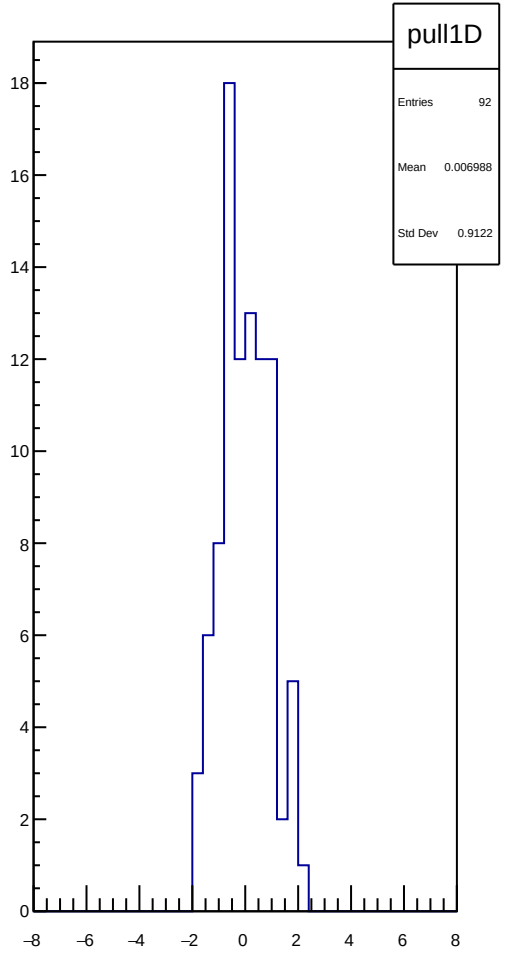

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 322.1 / 91
p0 1955 ± 1.471
2100
2050
2000
1950
1900

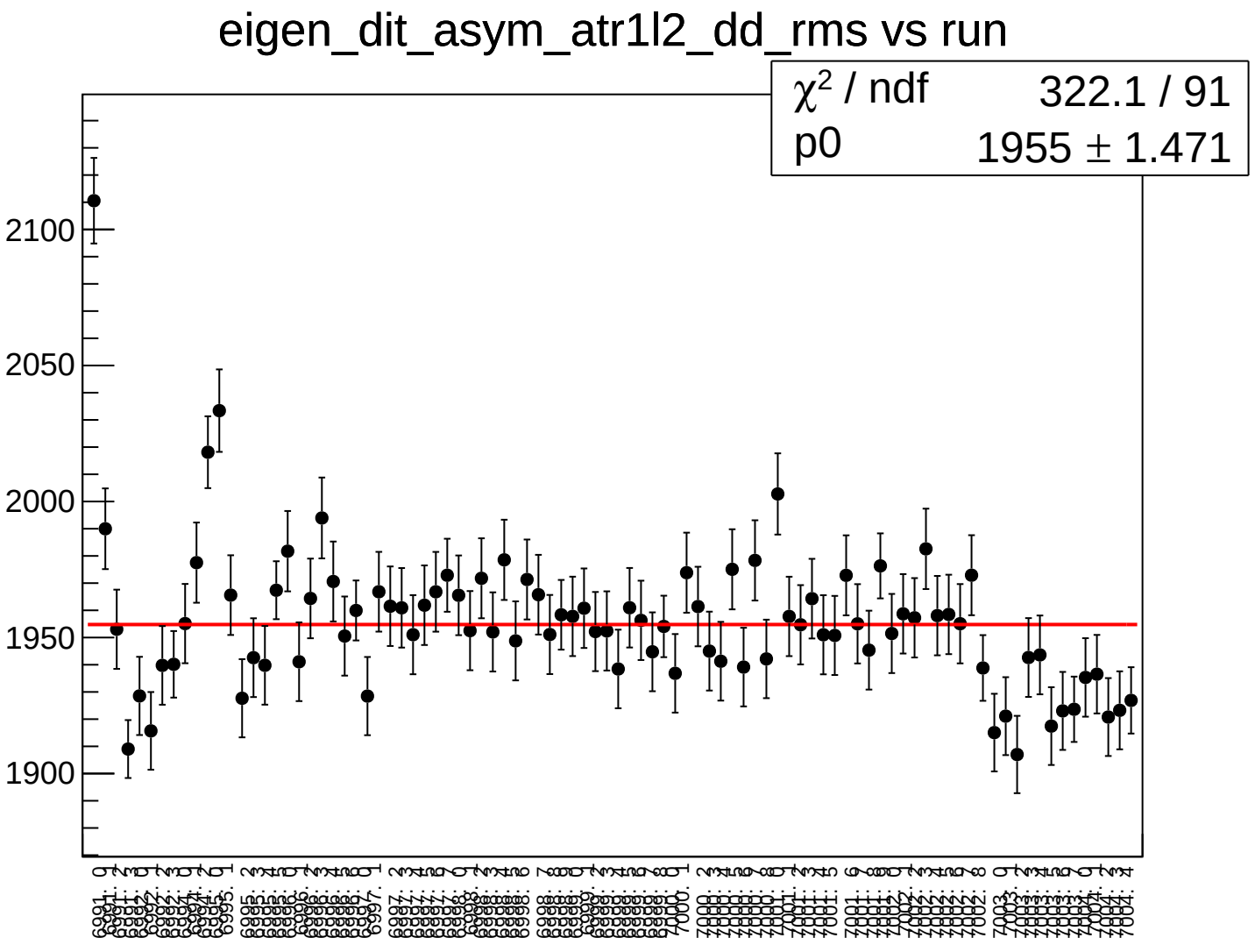

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.4 / 91
p0 3806 ± 4871
pull
Entries 92
Mean −8537
Std Dev 0

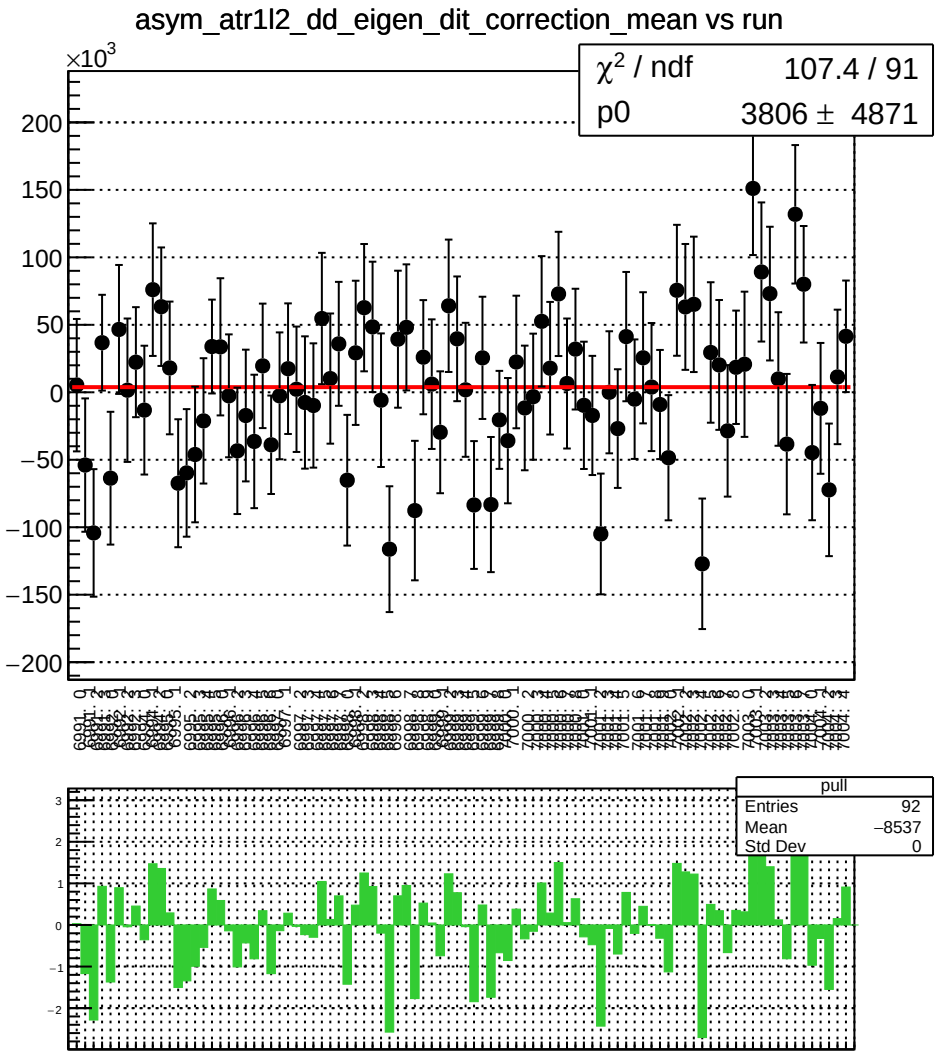

pull1D
Entries 92
Mean −0.0005845
Std Dev 1.08

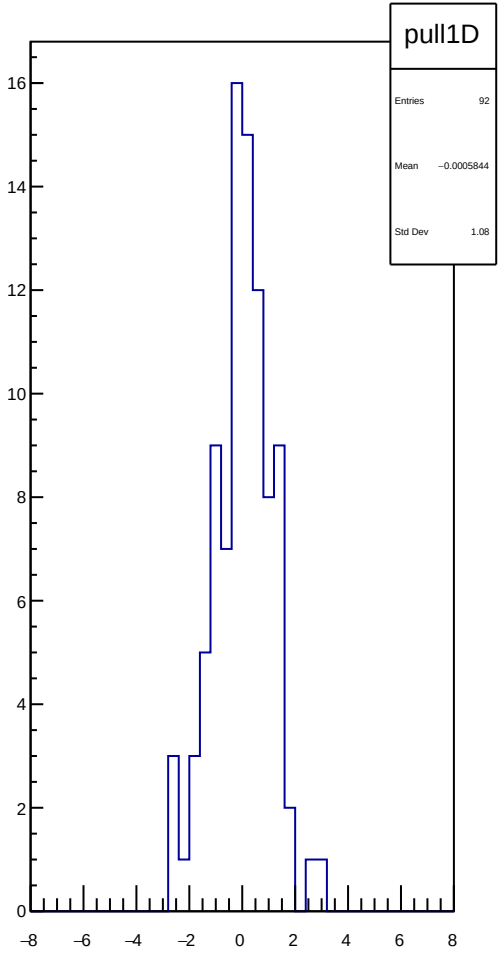

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 3014 / 91
p0 4572 ± 3.444
5200
5000
4800
4600
4400
4200

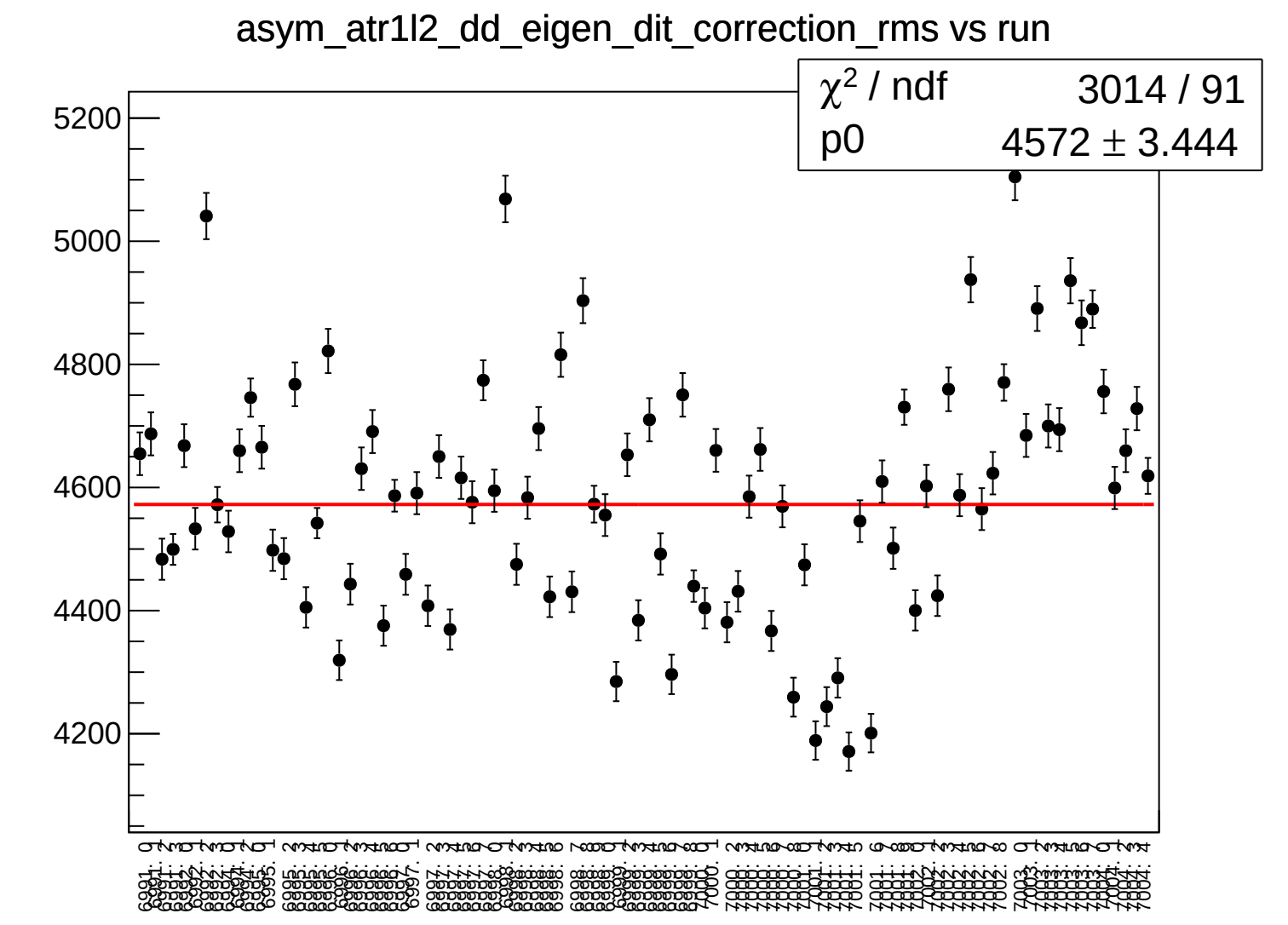

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 76.56 / 91
p0 1089 ± 2081
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 843.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

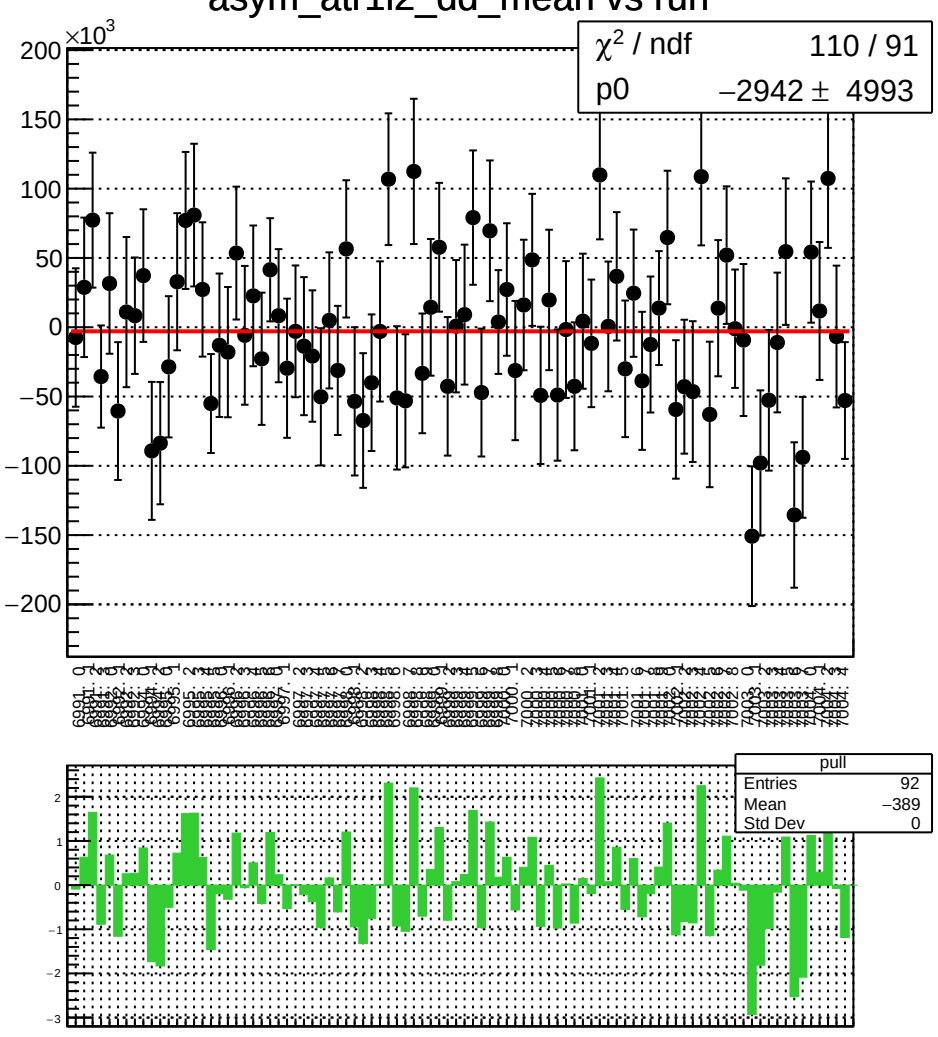

pull1D
Entries 92
Mean 0.006988
Std Dev 0.9122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

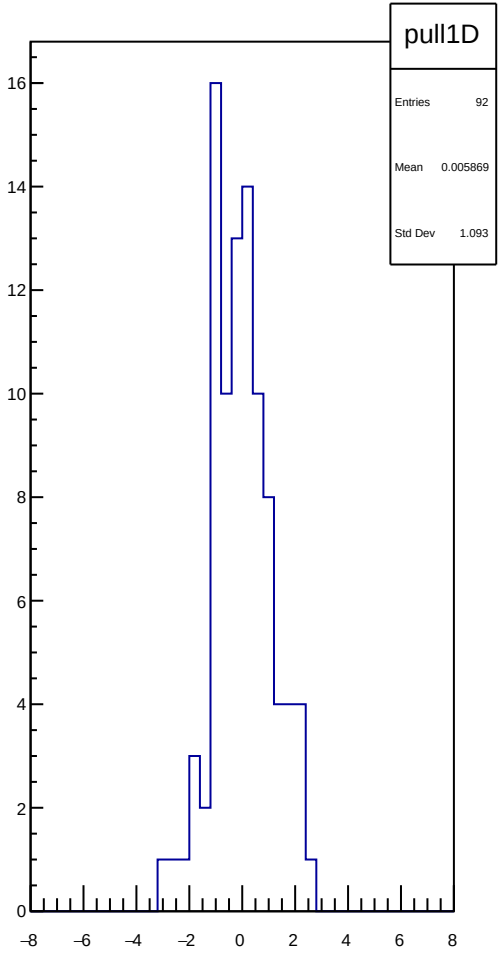

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 322.1 / 91
p0 1955 ± 1.471
2100
2050
2000
1950
1900

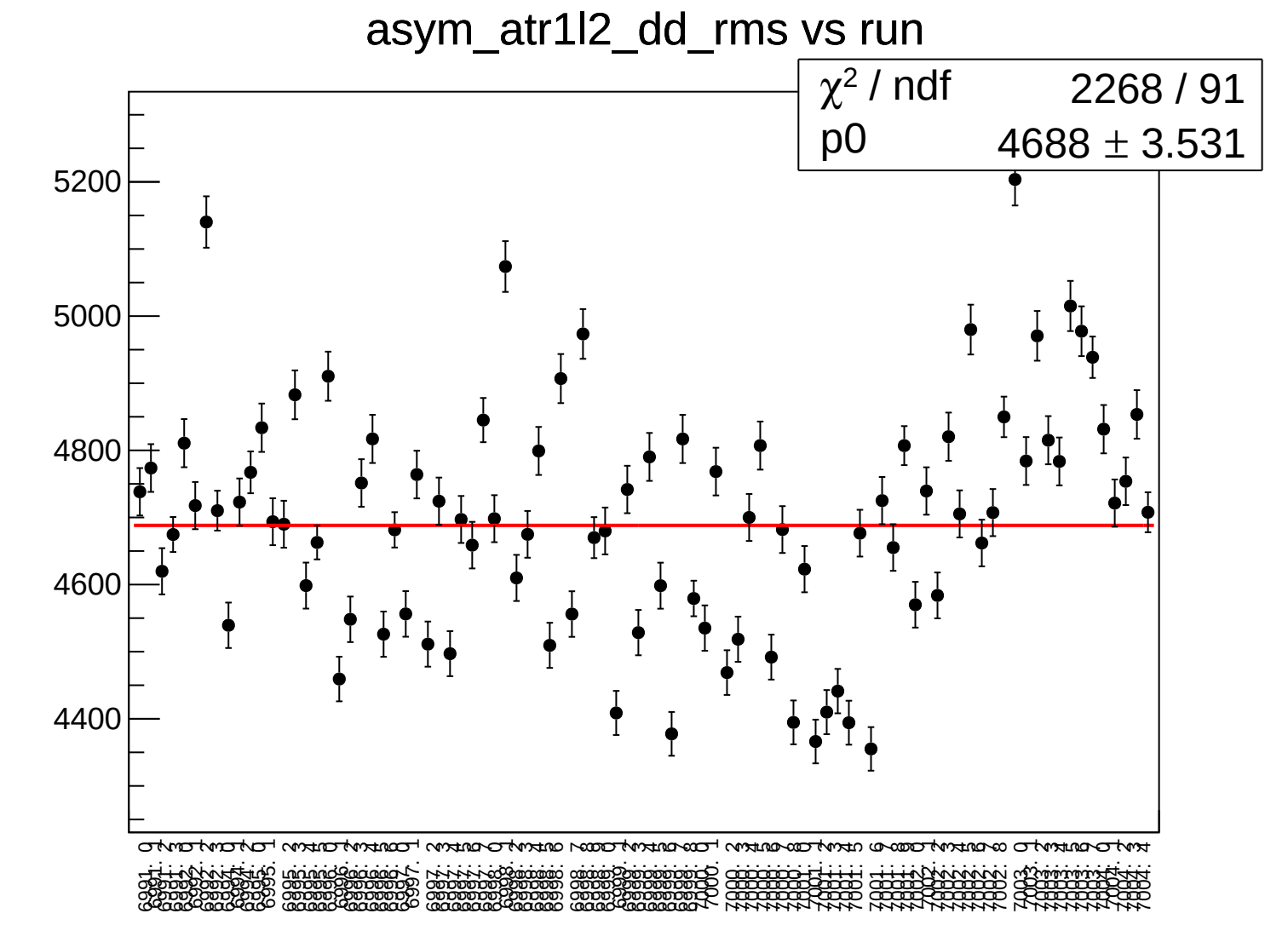

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.4 / 91
p0 3806 ± 4871
pull
Entries 92
Mean −8537
Std Dev 0

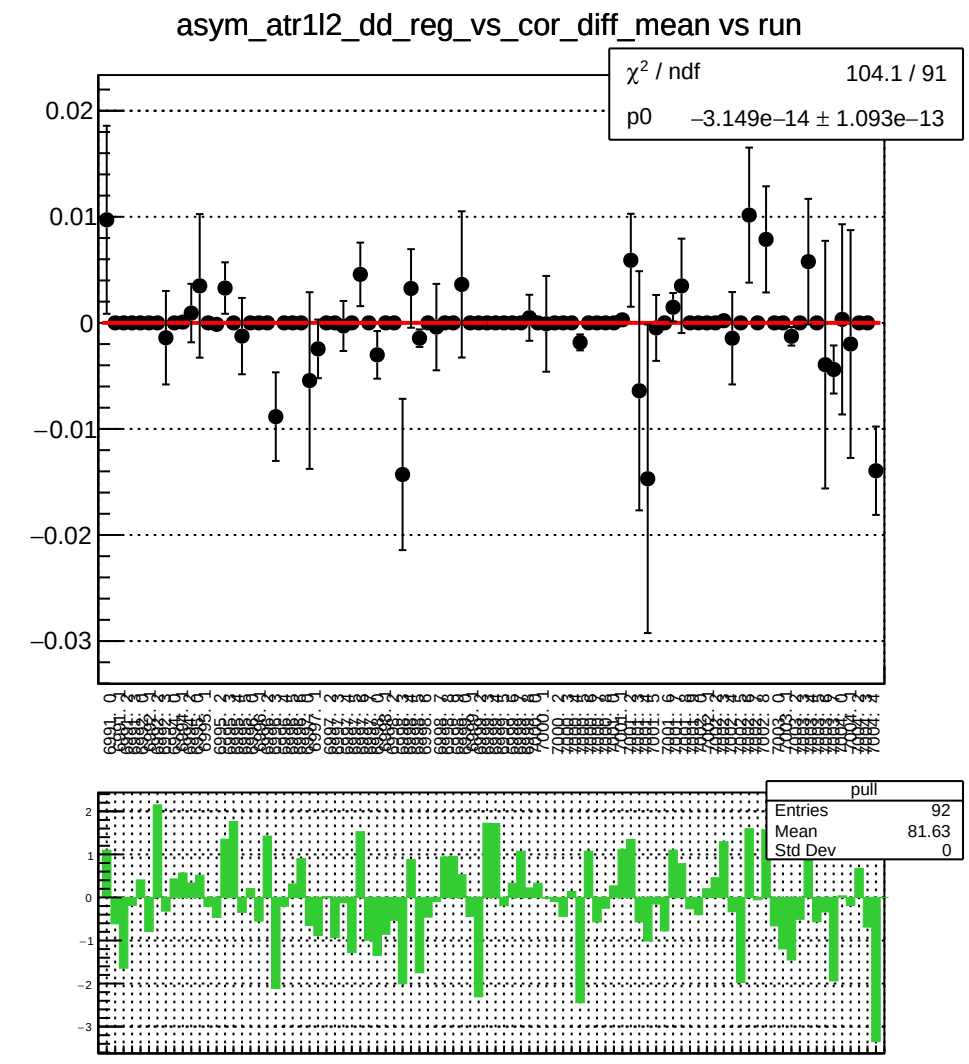

pull1D
Entries 92
Mean −0.0005844
Std Dev 1.08

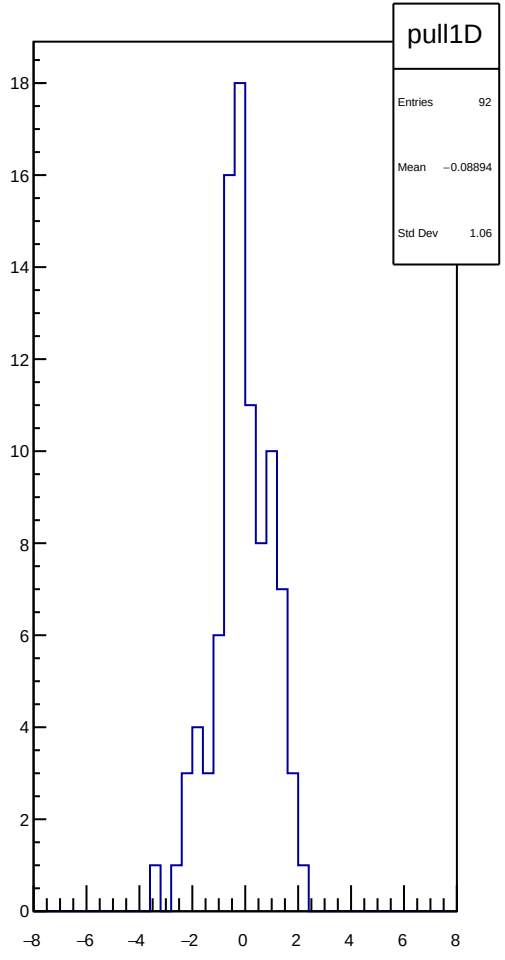

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3014 / 91
p0 4572 ± 3.444
5200
5000
4800
4600
4400
4200

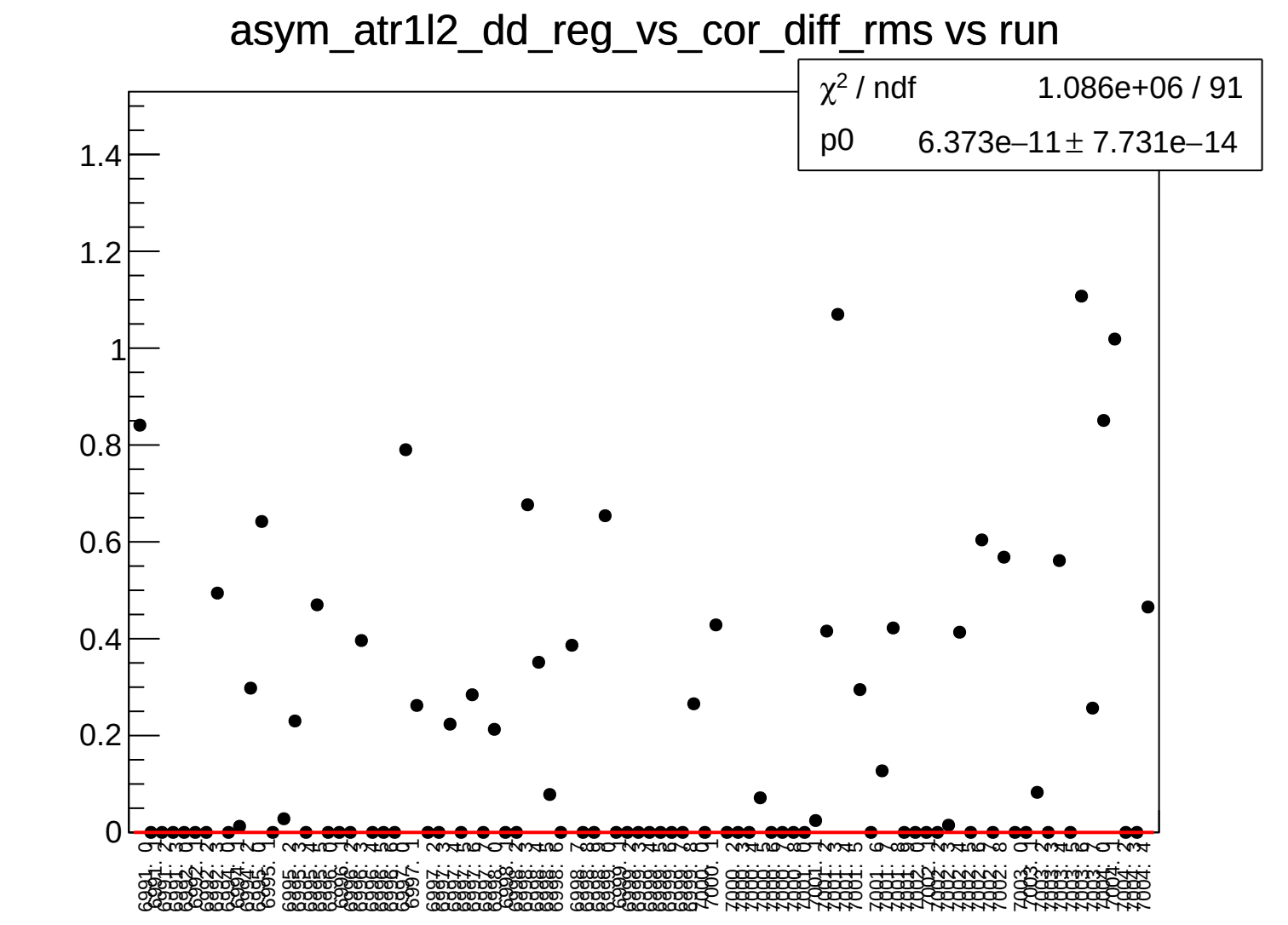

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 110 / 91
p0 −2942 ± 4993
pull
Entries 92
Mean −389
Std Dev 0

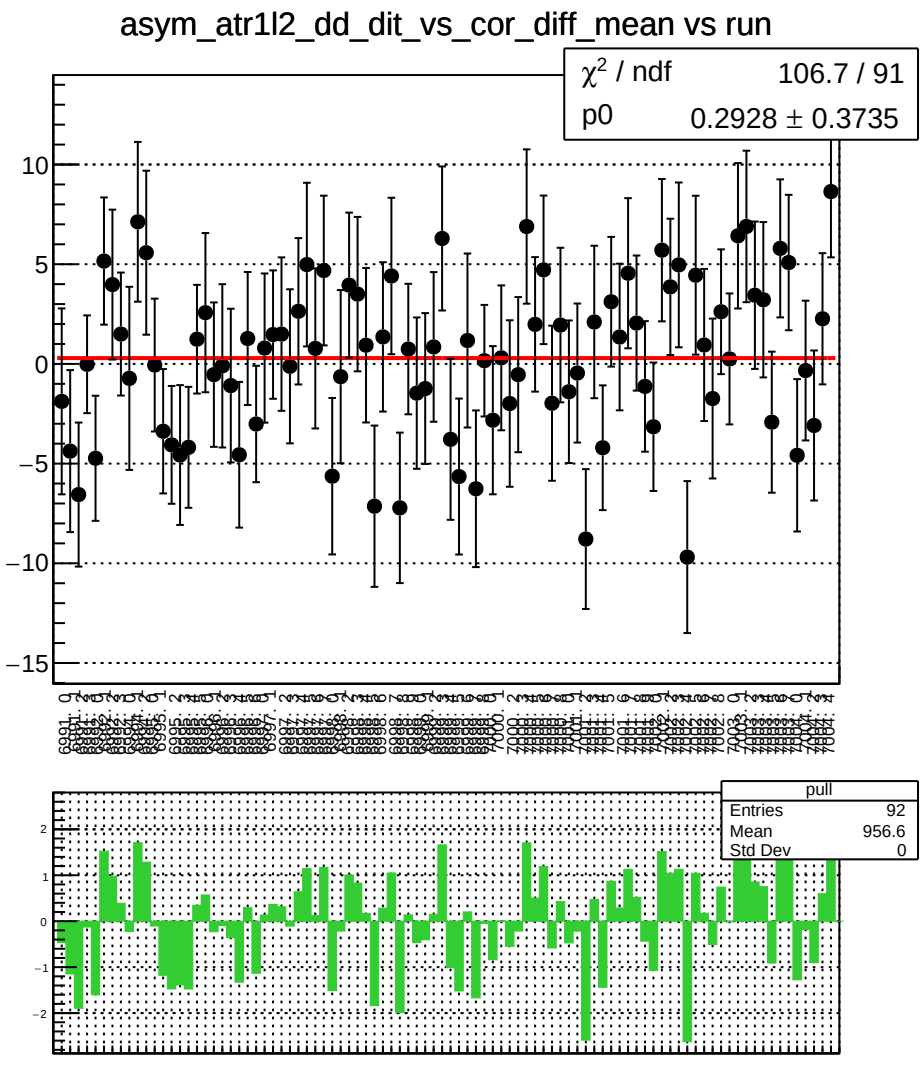

pull1D
Entries 92
Mean 0.005869
Std Dev 1.093

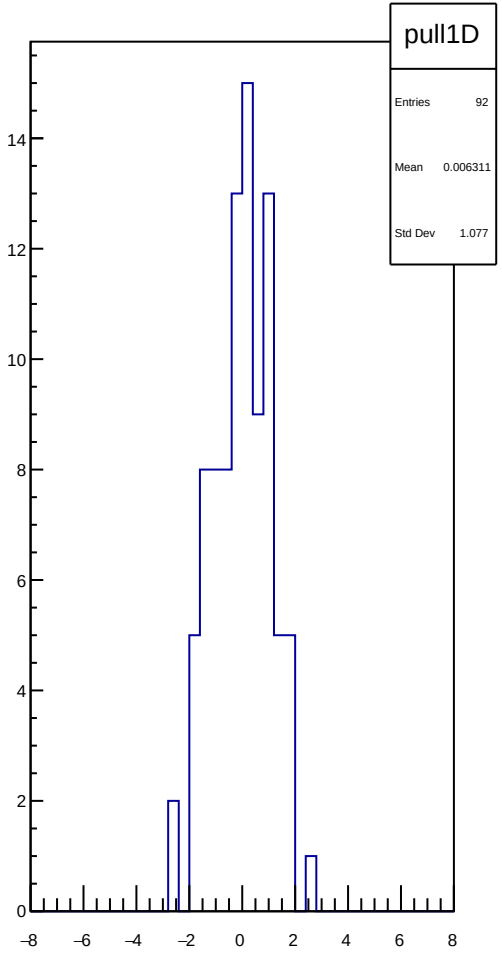

asym_atr1l2_dd_rms vs run
χ² / ndf 2268 / 91
p0 4688 ± 3.531
5200
5000
4800
4600
4400

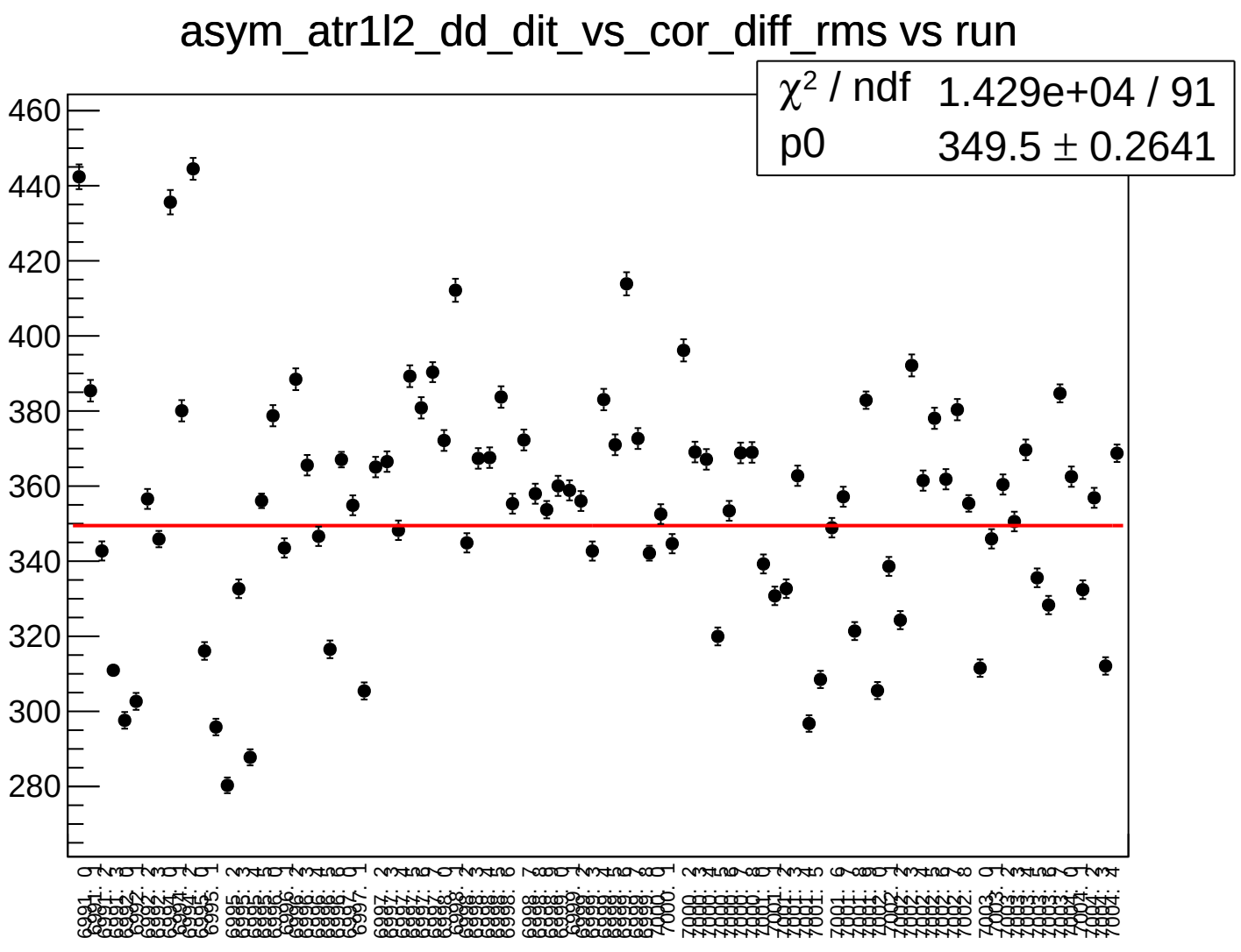

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 91
p0 −3.149e−14 ± 1.093e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 81.63
Std Dev 0
2
1
0
−1
−2
−3

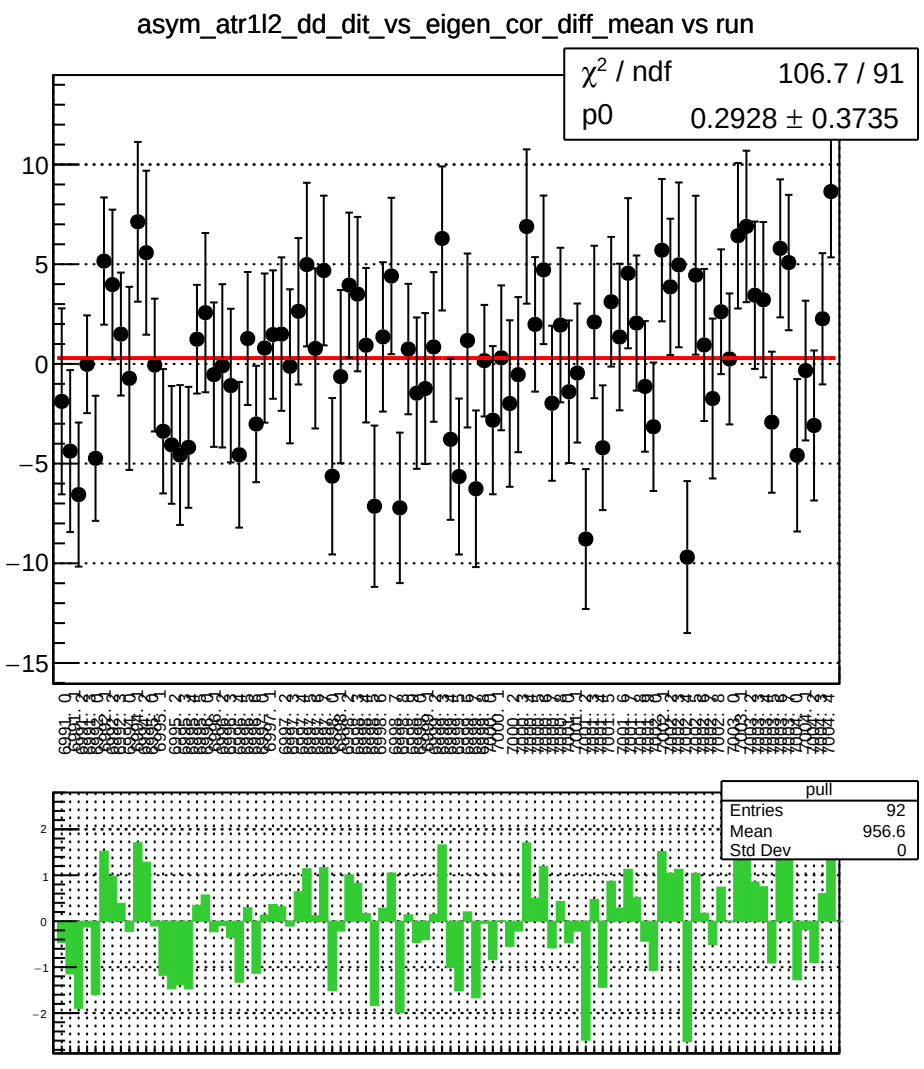

pull1D
Entries 92
Mean −0.08894
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

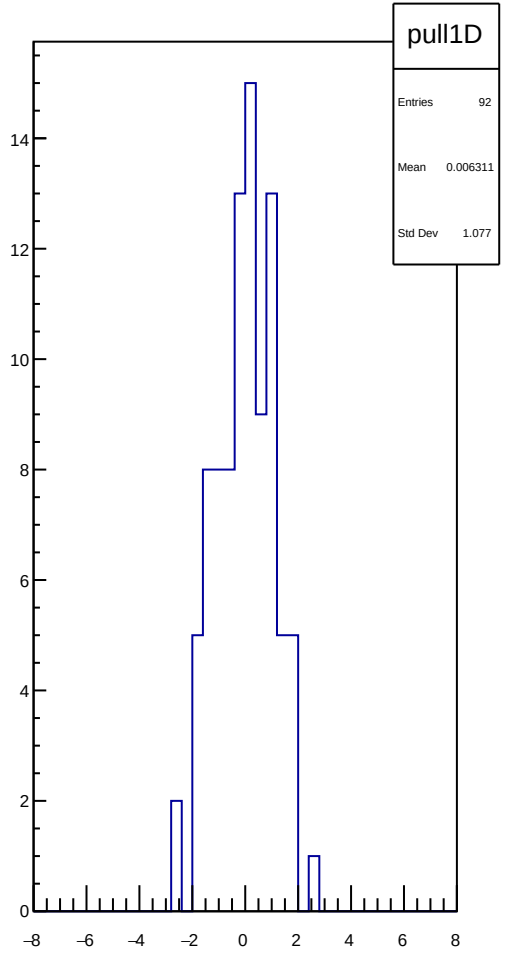

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 91
p0 6.373e−11 ± 7.731e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

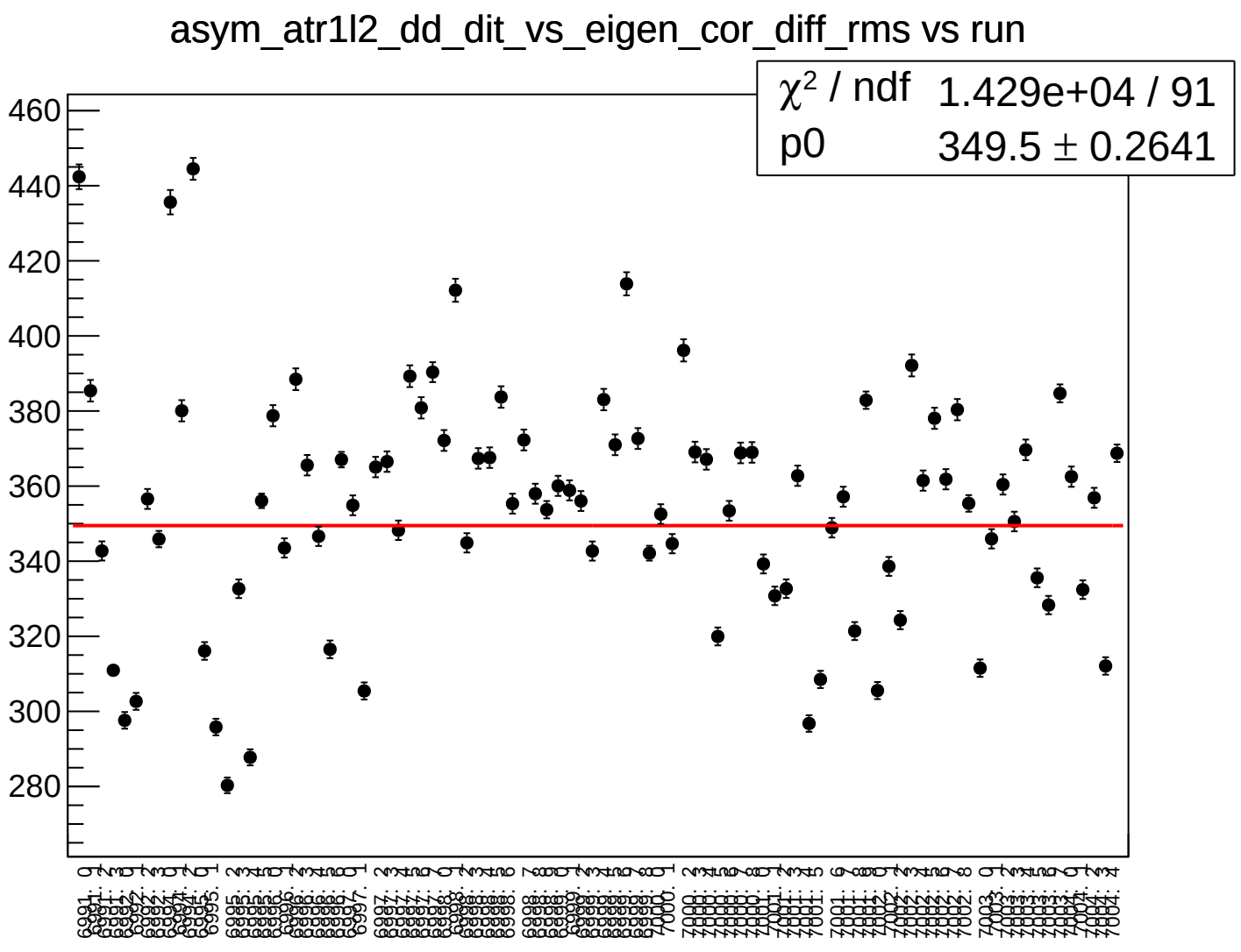

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 91
p0 0.2928 ± 0.3735
pull
Entries 92
Mean 956.6
Std Dev 0

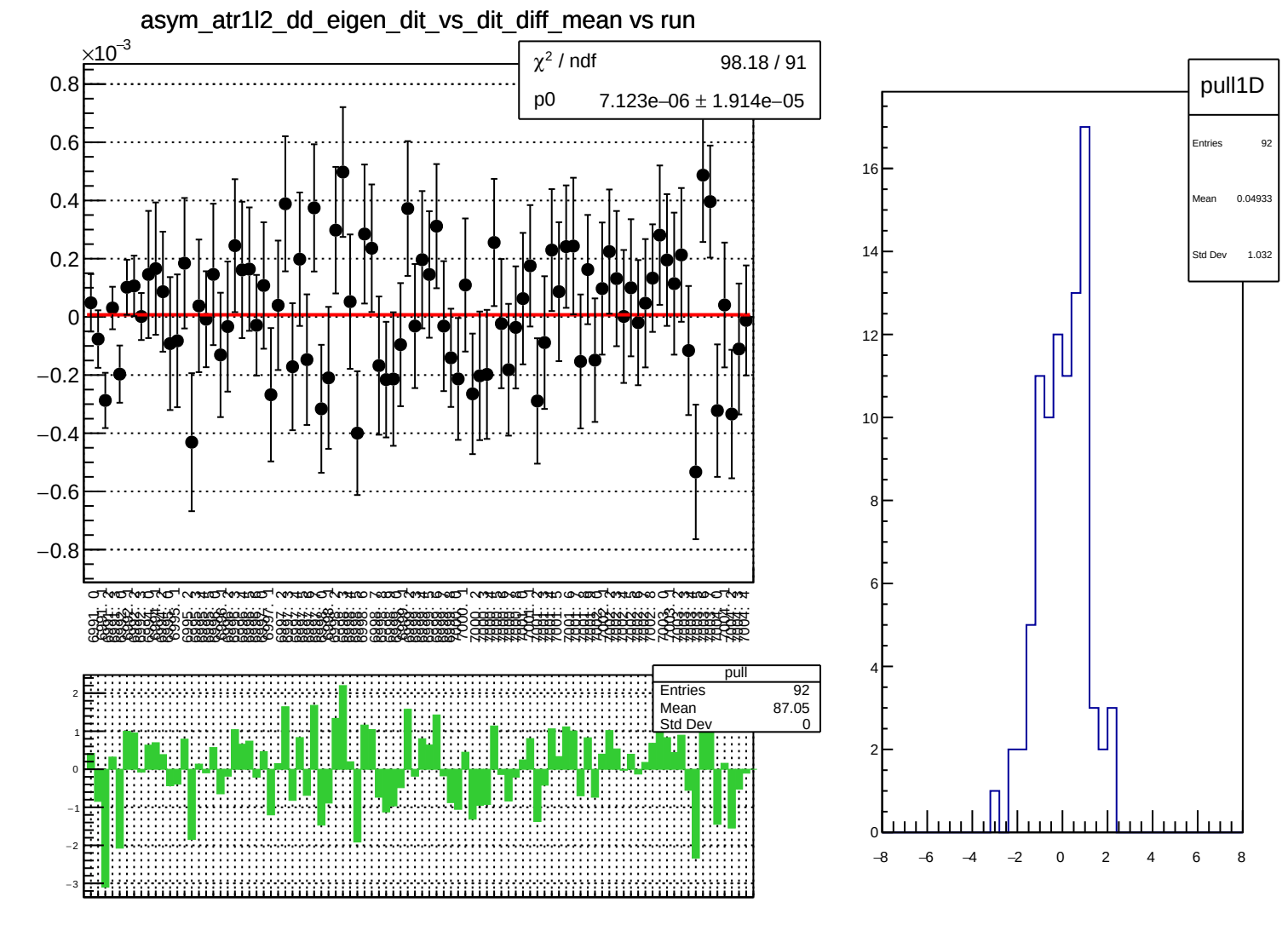

pull1D
Entries 92
Mean 0.006311
Std Dev 1.077

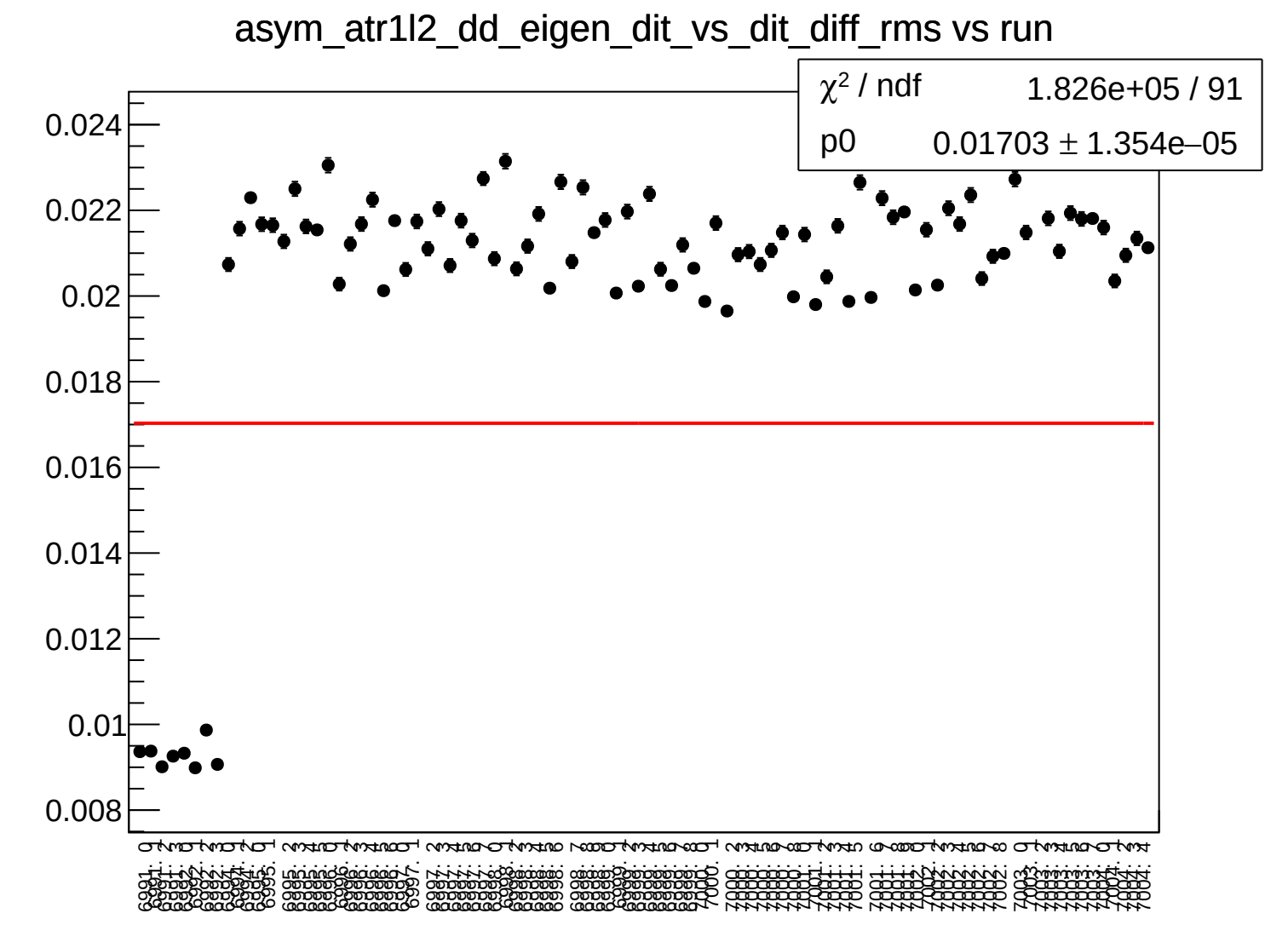

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.429e+04 / 91
p0 349.5 ± 0.2641
460
440
420
400
380
360
340
320
300
280

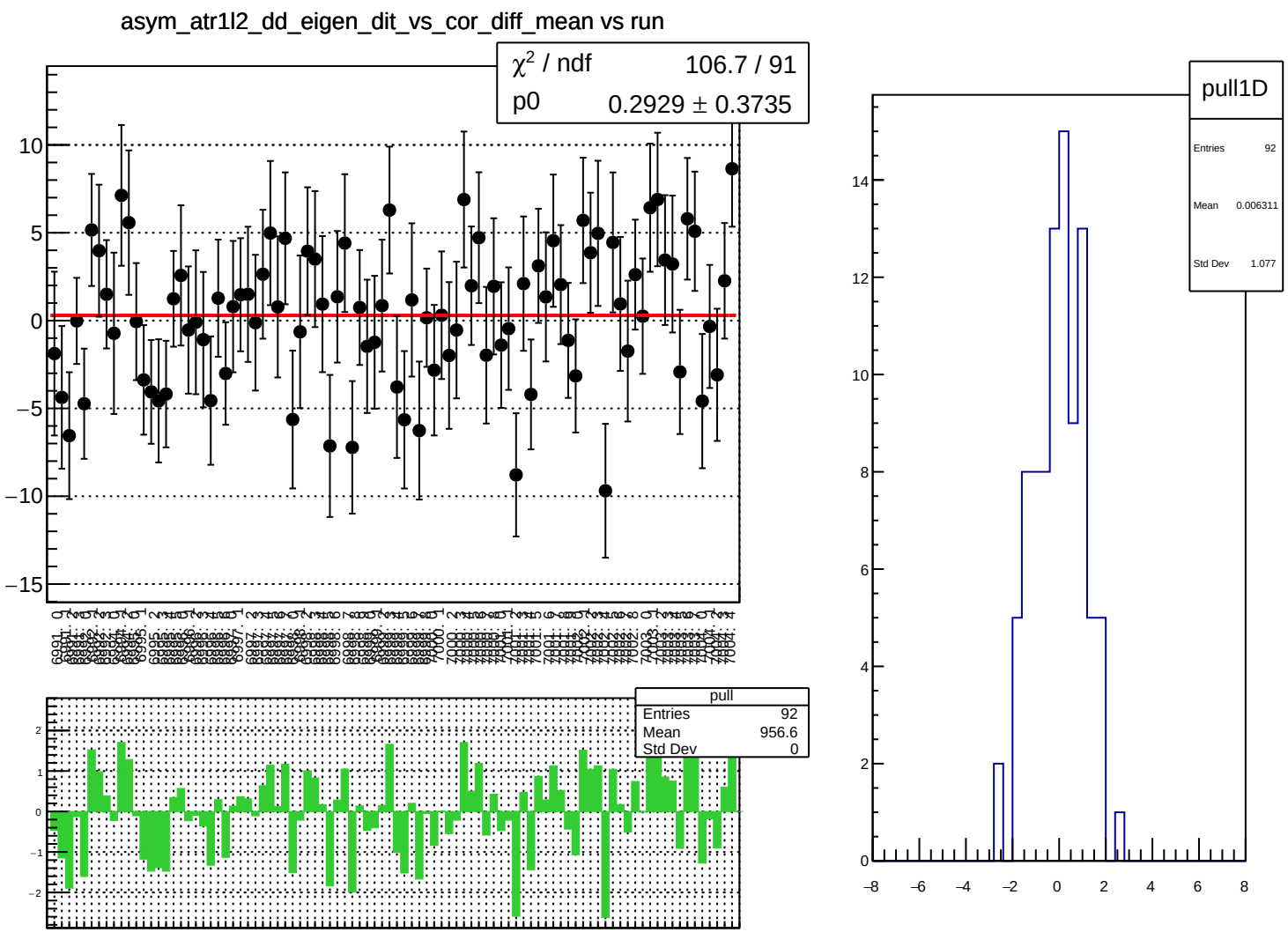

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.7 / 91
p0 0.2928 ± 0.3735
pull
Entries 92
Mean 956.6
Std Dev 0

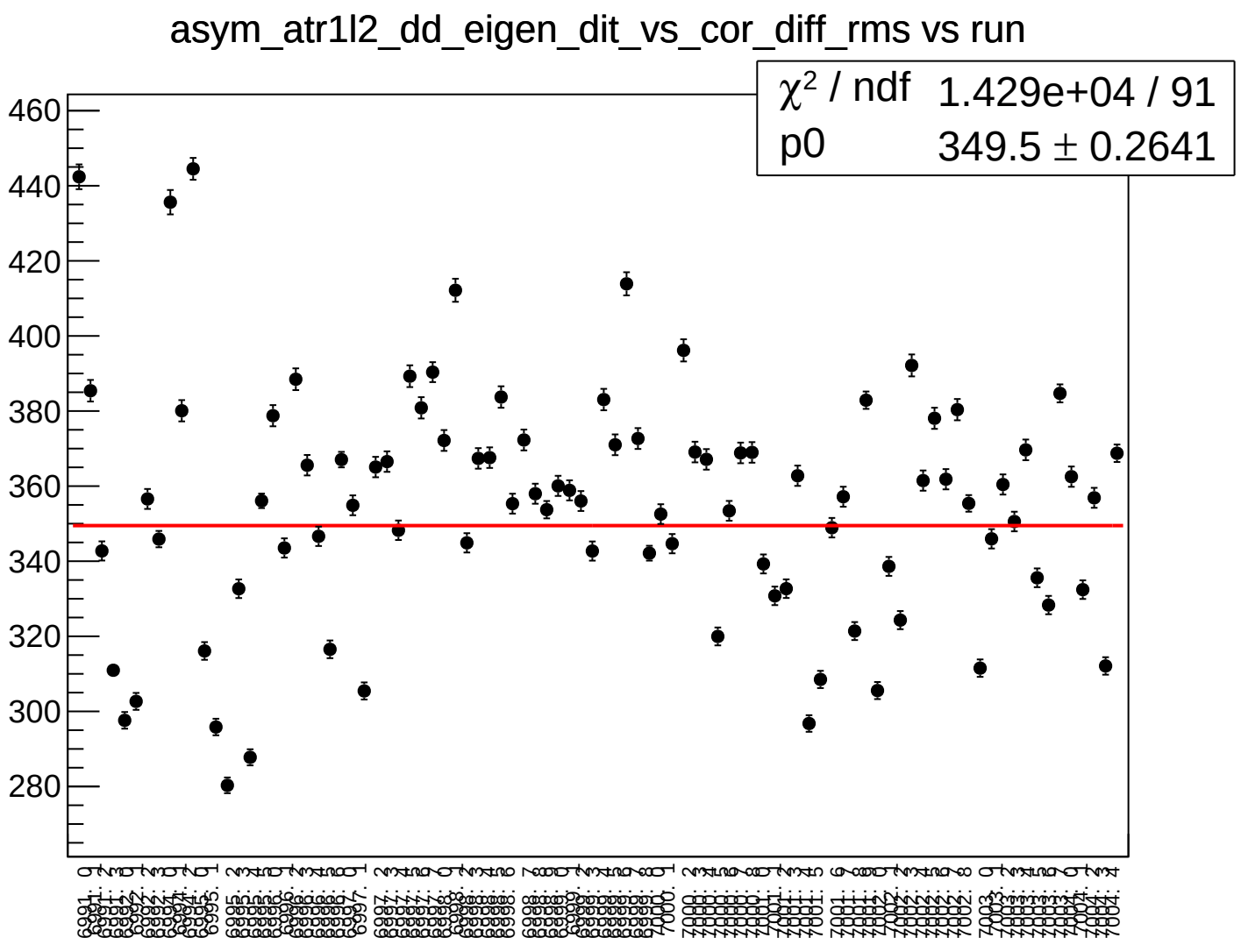

pull1D
Entries 92
Mean 0.006311
Std Dev 1.077

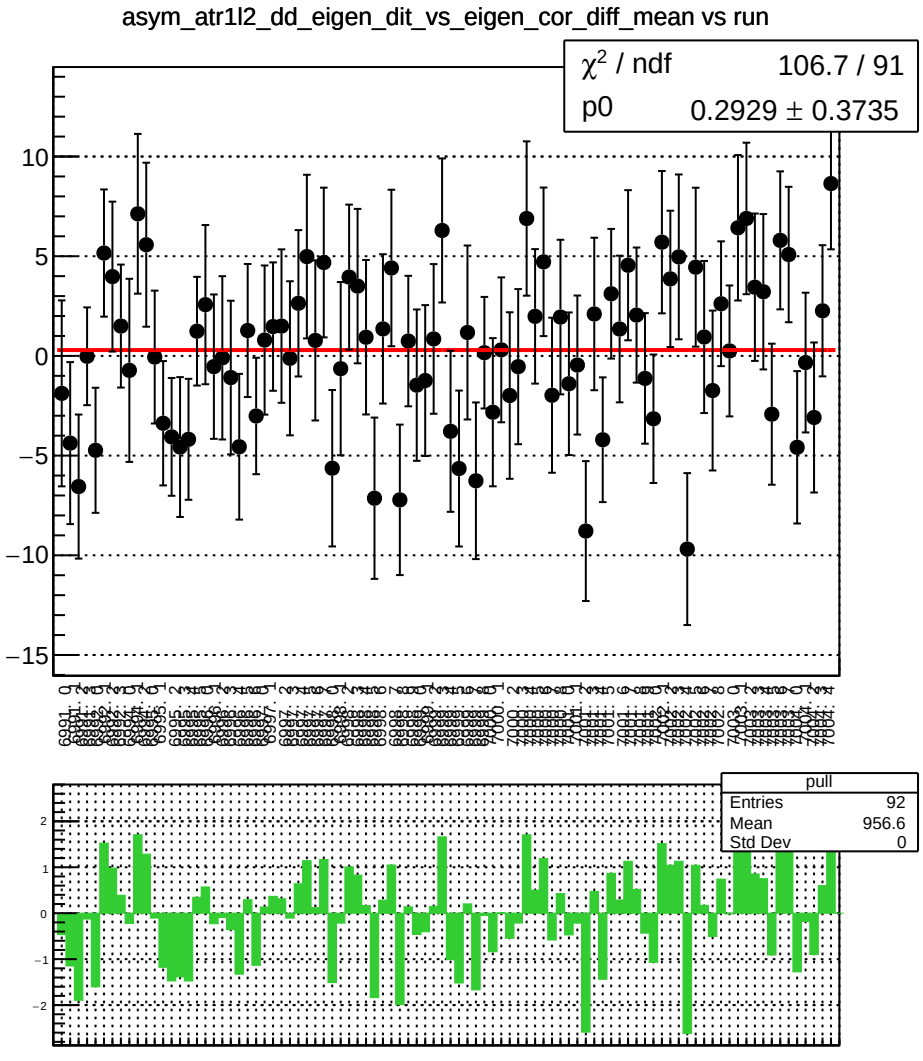

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.429e+04 / 91
p0 349.5 ± 0.2641
460
440
420
400
380
360
340
320
300
280

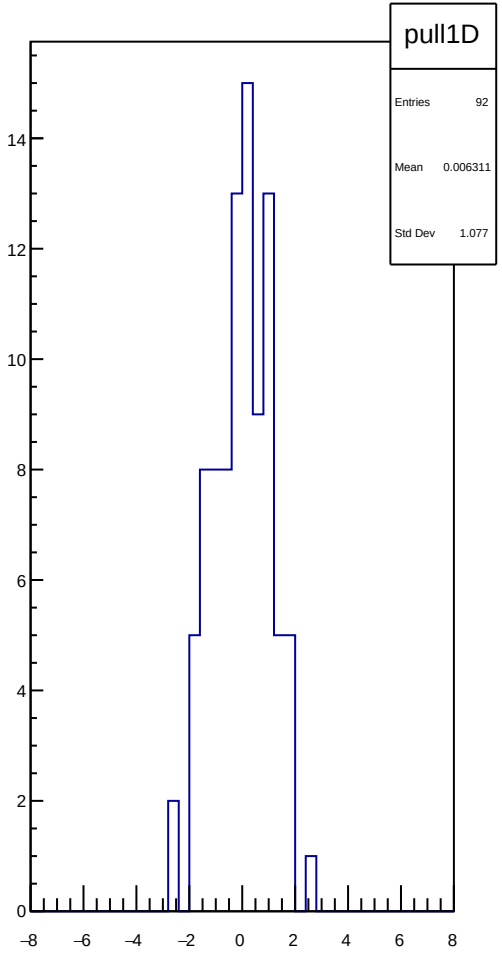

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 98.18 / 91
p0 7.123e−06 ± 1.914e−05
pull
Entries 92
Mean 87.05
Std Dev 0
pull1D
Entries 92
Mean 0.04933
Std Dev 1.032

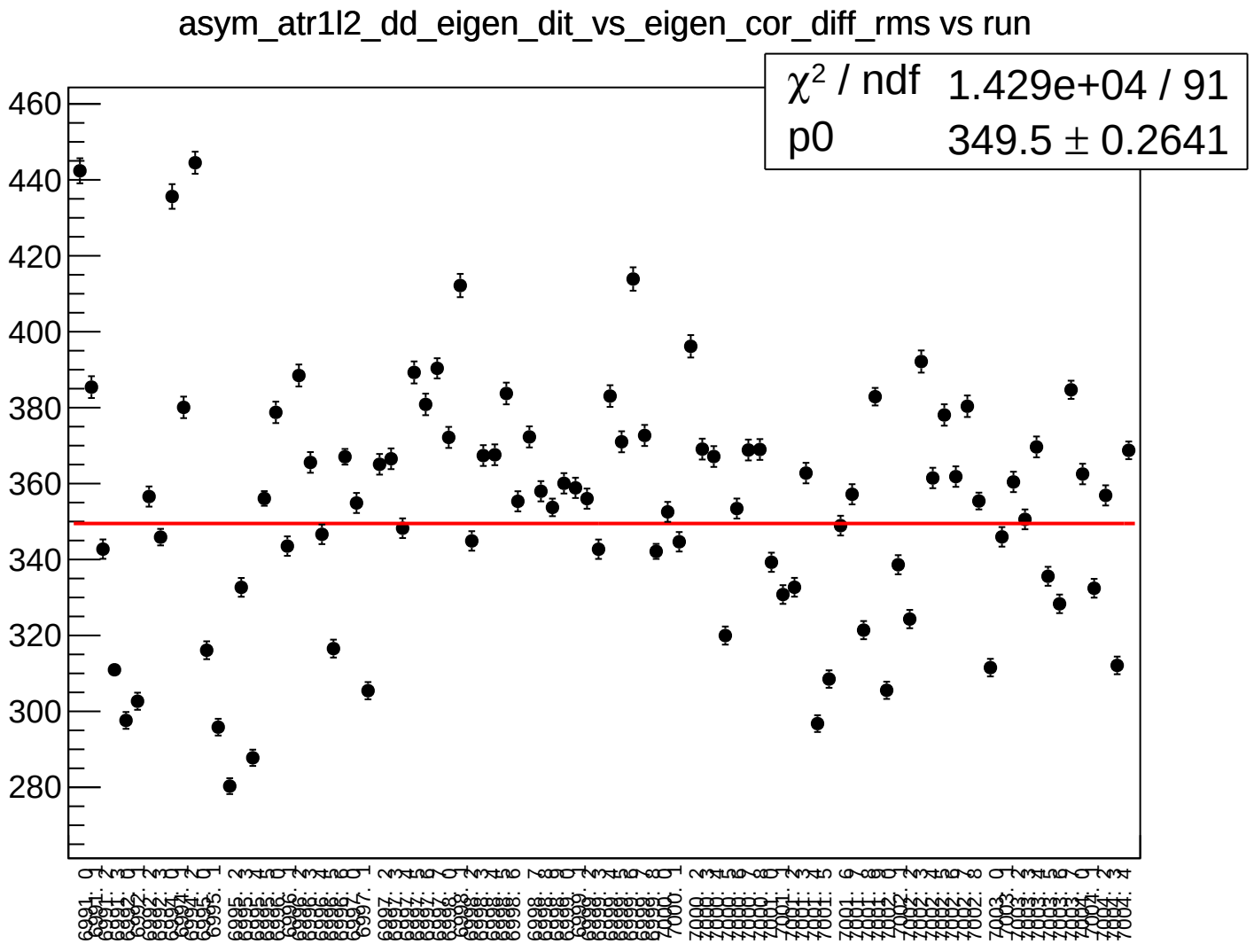

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.826e+05 / 91
p0 0.01703 ± 1.354e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

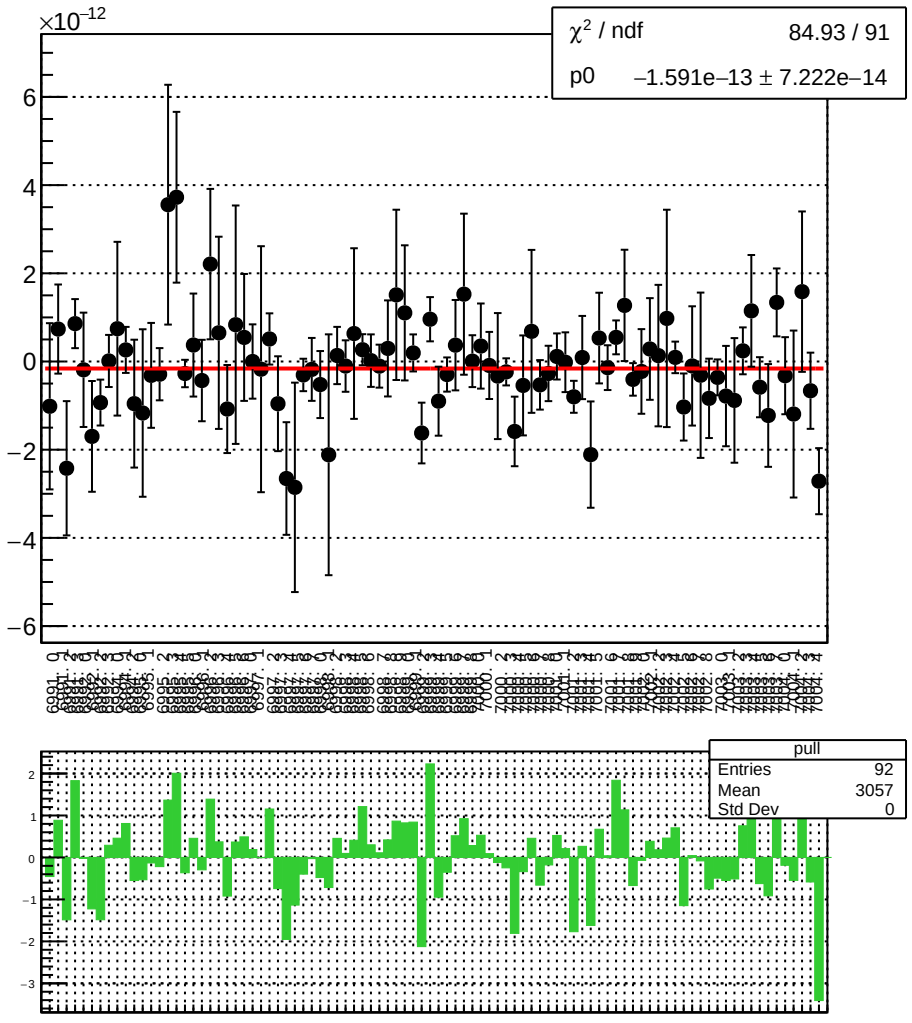

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 91
p0 0.2929 ± 0.3735
pull
Entries 92
Mean 956.6
Std Dev 0
pull1D
Entries 92
Mean 0.006311
Std Dev 1.077

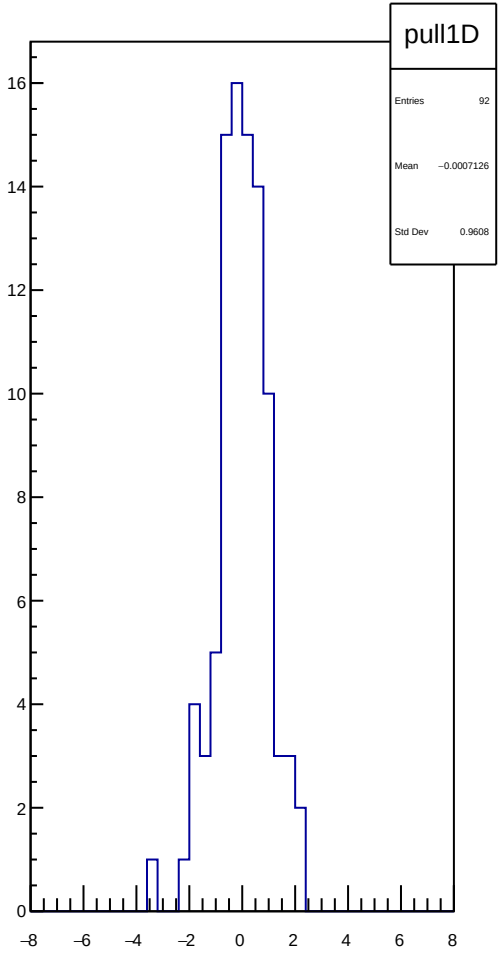

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.429e+04 / 91
p0 349.5 ± 0.2641
460
440
420
400
380
360
340
320
300
280

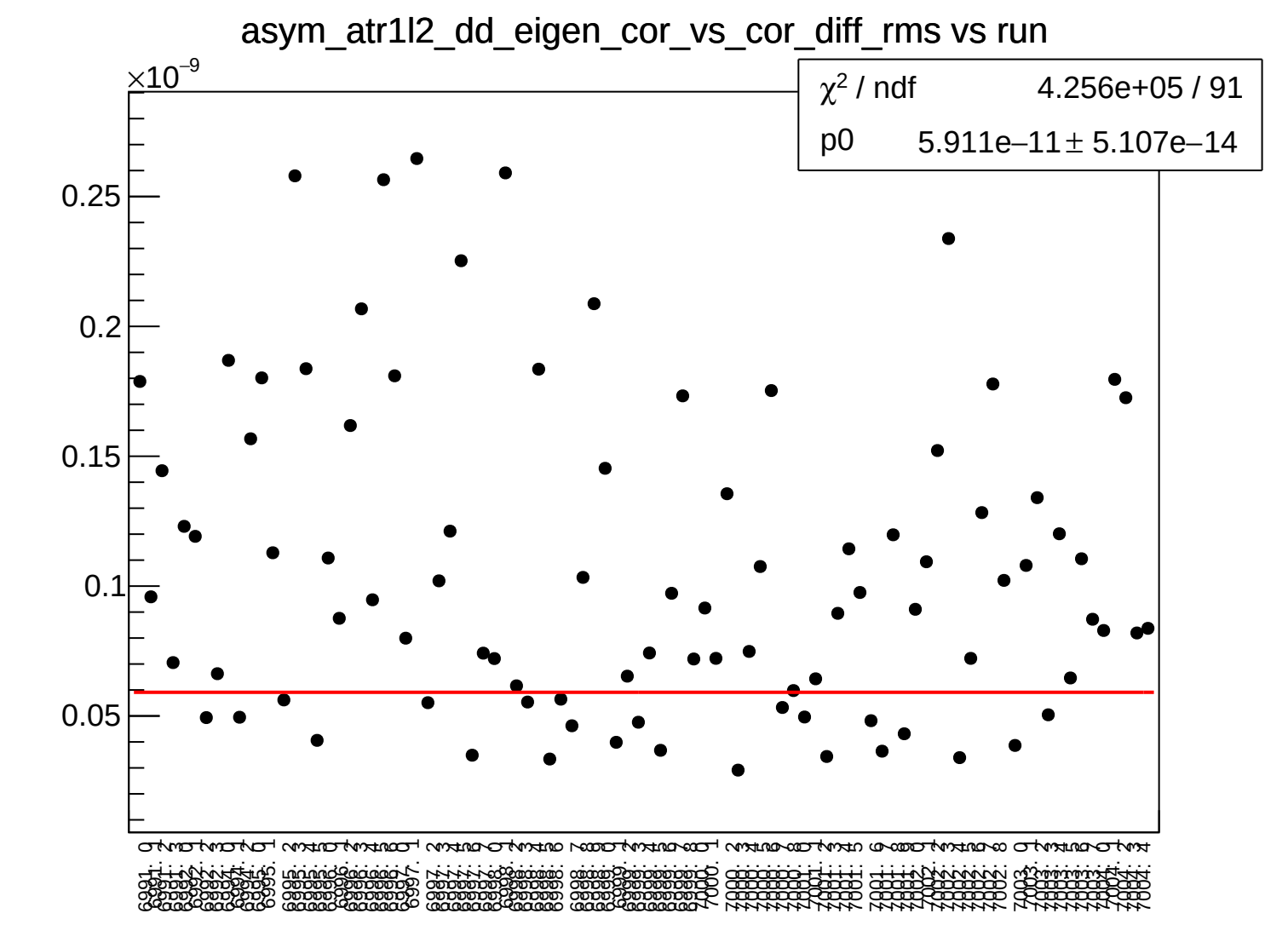

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.7 / 91
p0 0.2929 ± 0.3735
pull
Entries 92
Mean 956.6
Std Dev 0

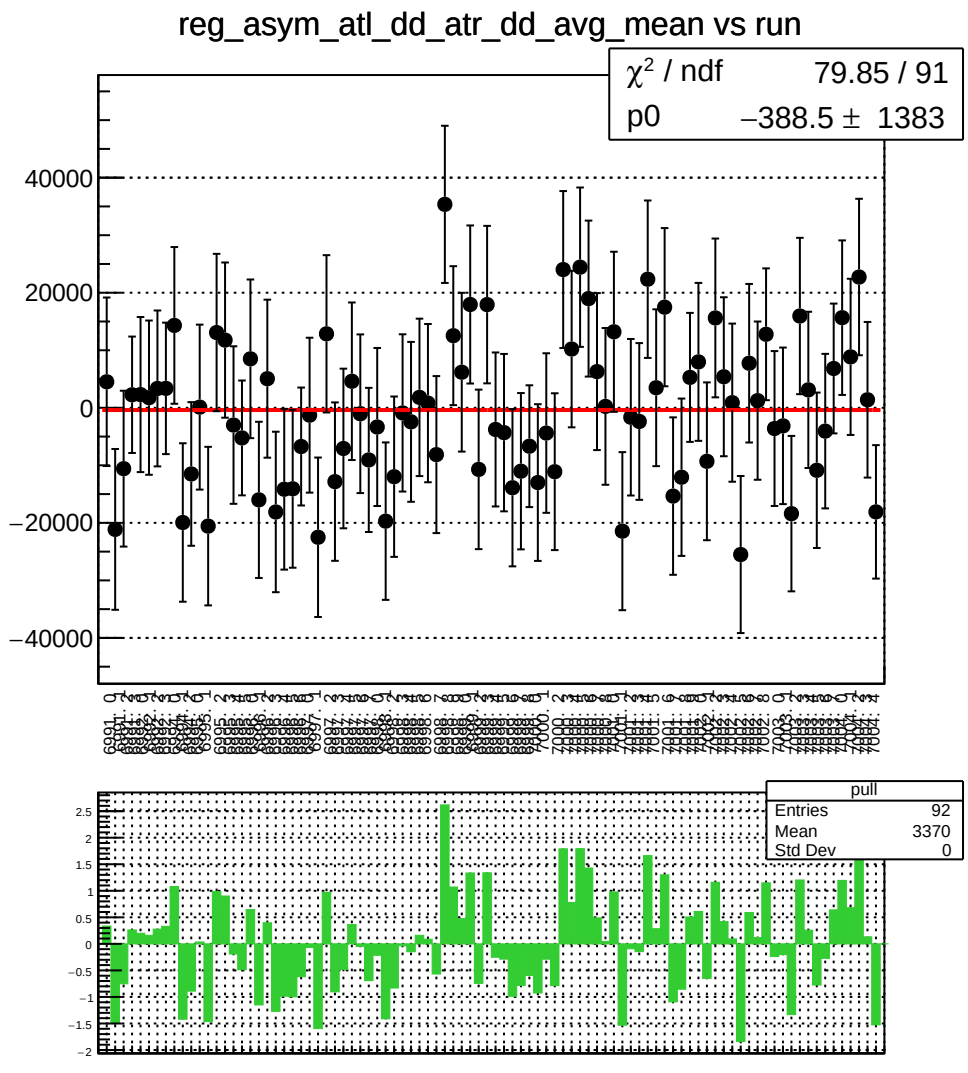

pull1D
Entries 92
Mean 0.006311
Std Dev 1.077

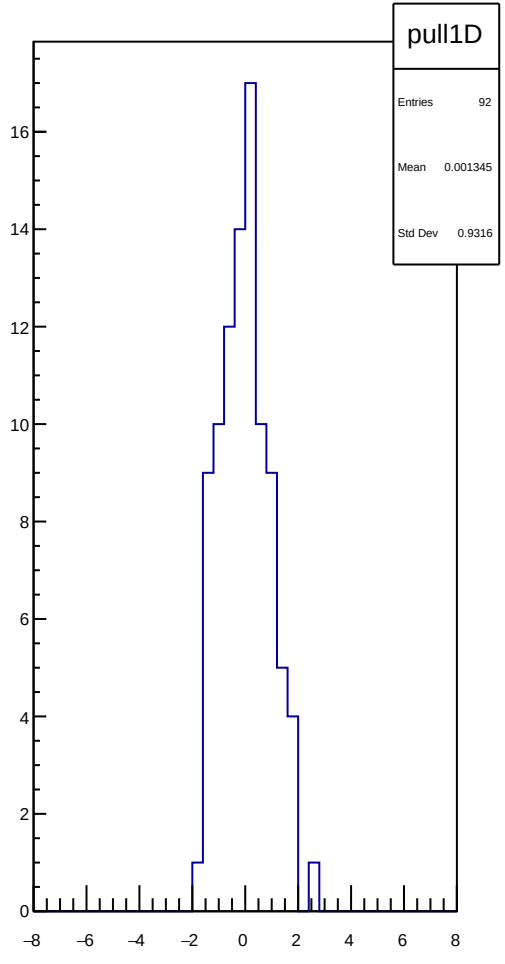

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.429e+04 / 91
p0 349.5 ± 0.2641
460
440
420
400
380
360
340
320
300
280

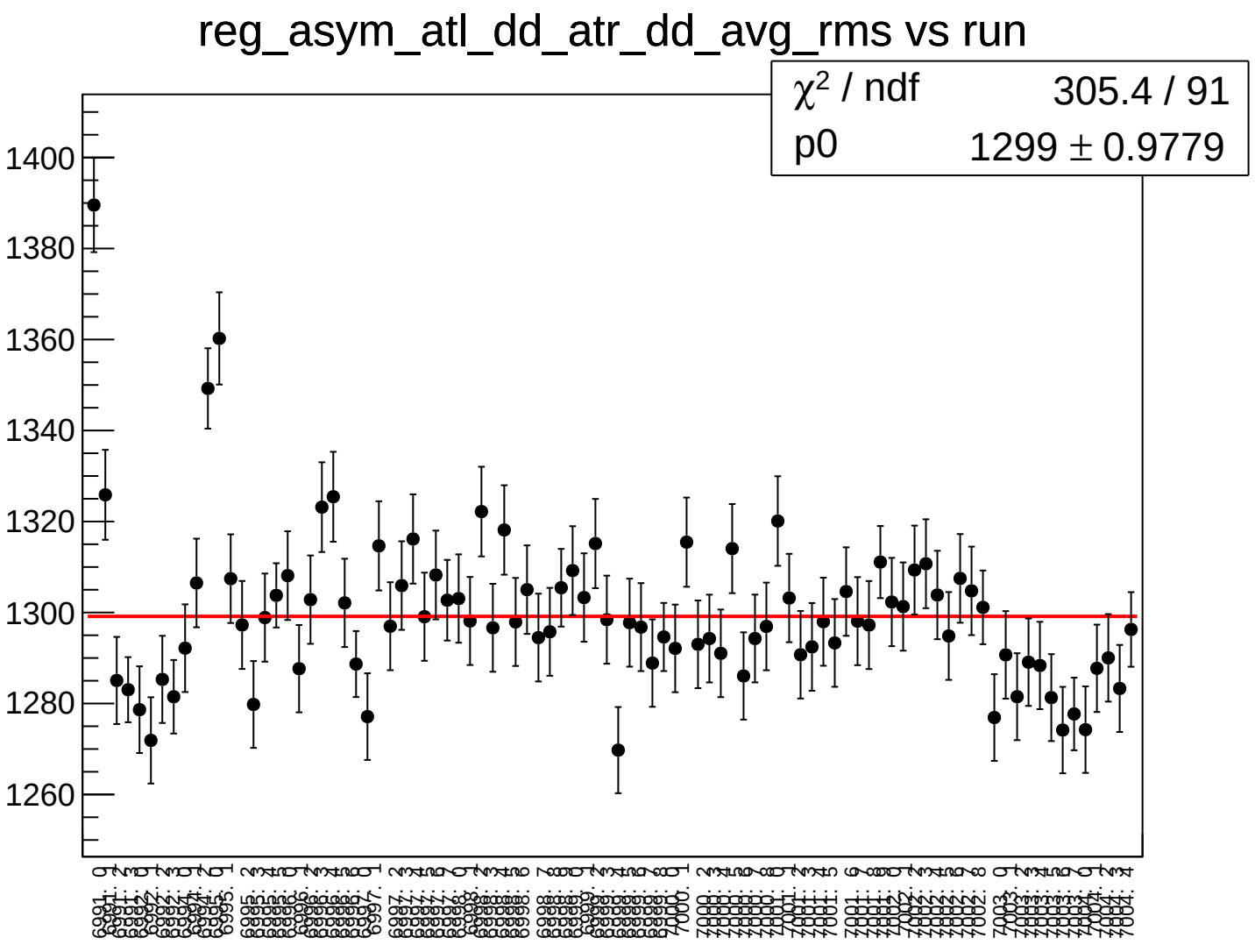

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.93 / 91
p0 −1.591e−13 ± 7.222e−14
pull
Entries 92
Mean 3057
Std Dev 0

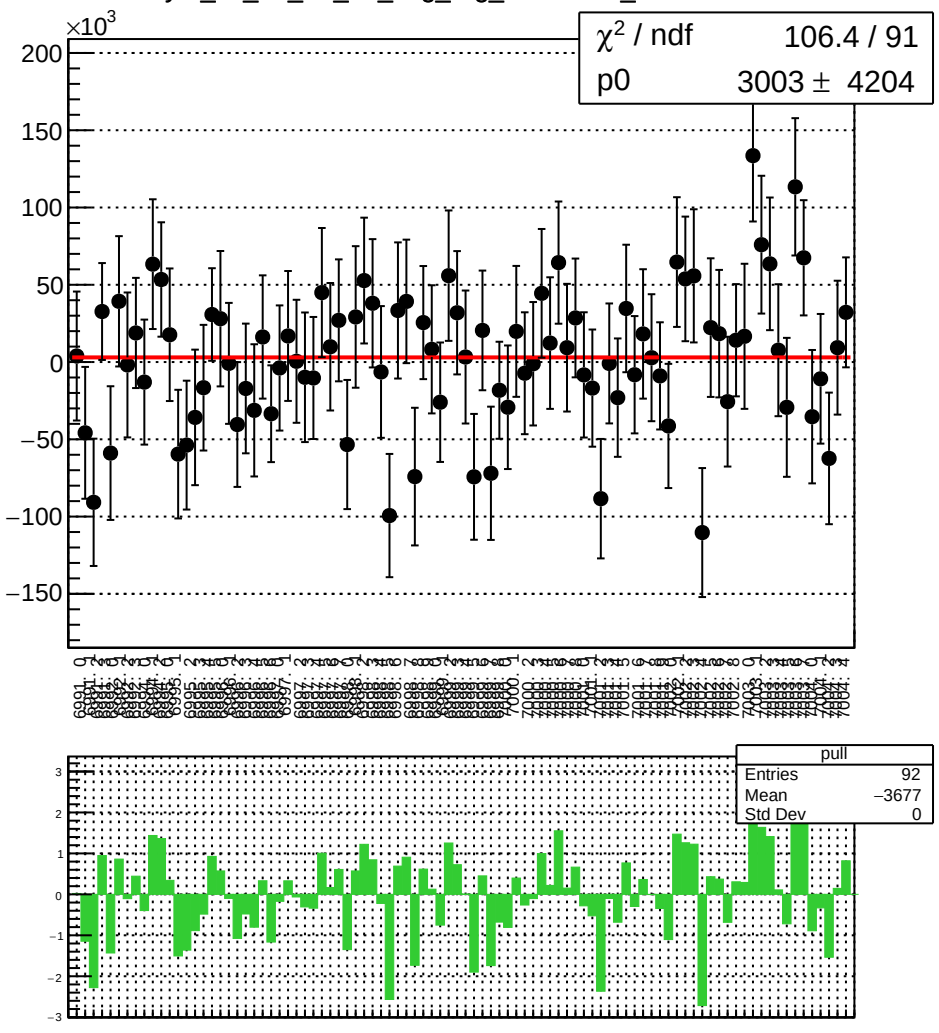

pull1D
Entries 92
Mean −0.0007126
Std Dev 0.9608

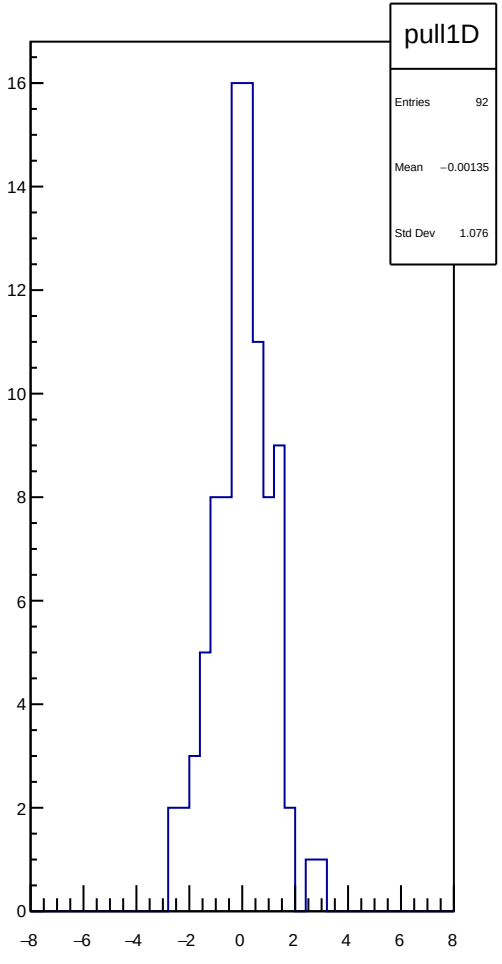

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.256e+05 / 91
p0 5.911e−11 ± 5.107e−14
0.25
0.2
0.15
0.1
0.05

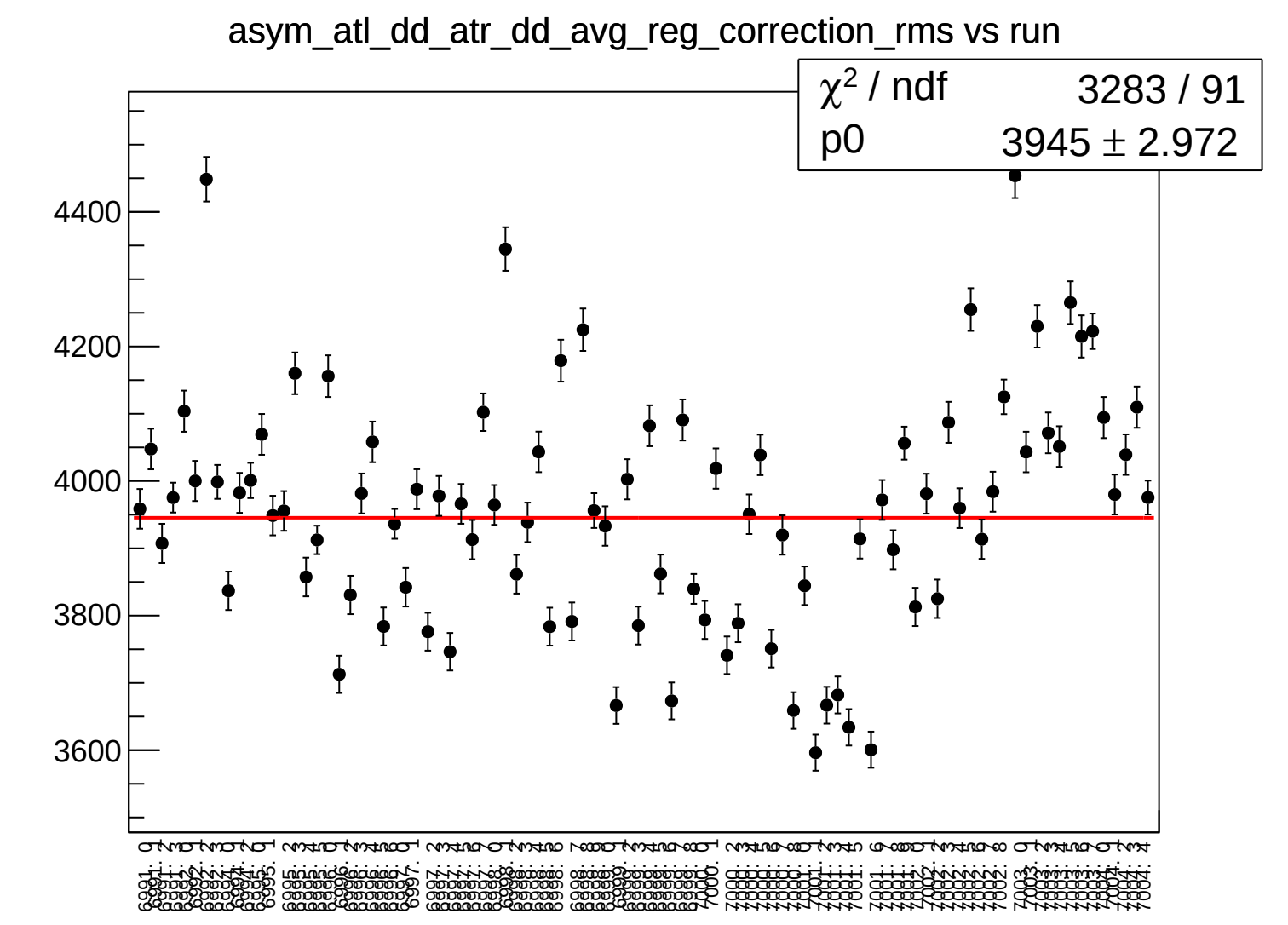

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 79.85 / 91
p0 −388.5 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 3370
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

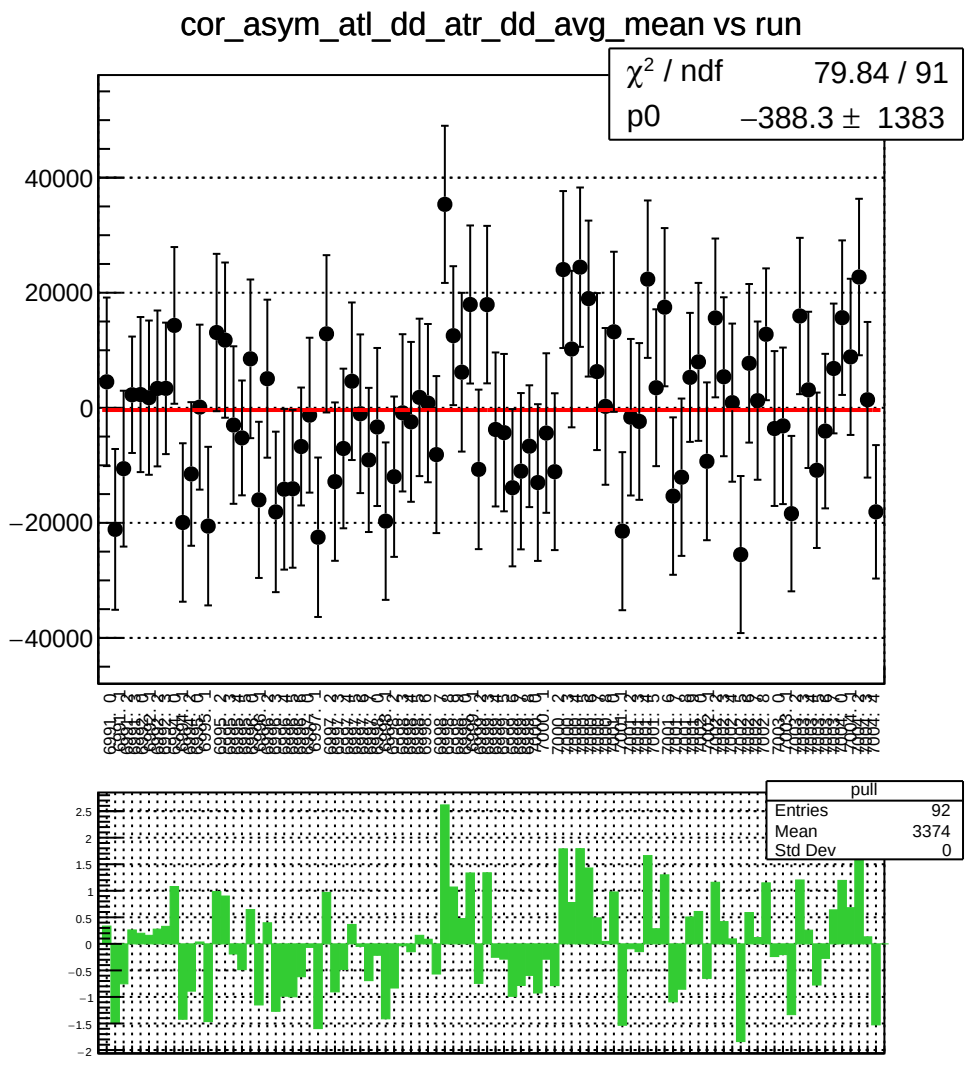

pull1D
Entries 92
Mean 0.001345
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

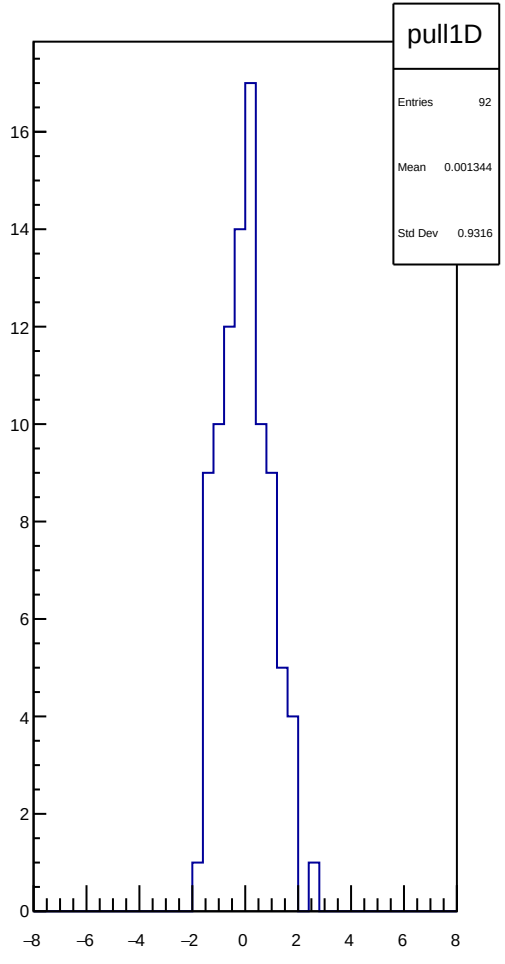

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 305.4 / 91
p0 1299 ± 0.9779
1400
1380
1360
1340
1320
1300
1280
1260

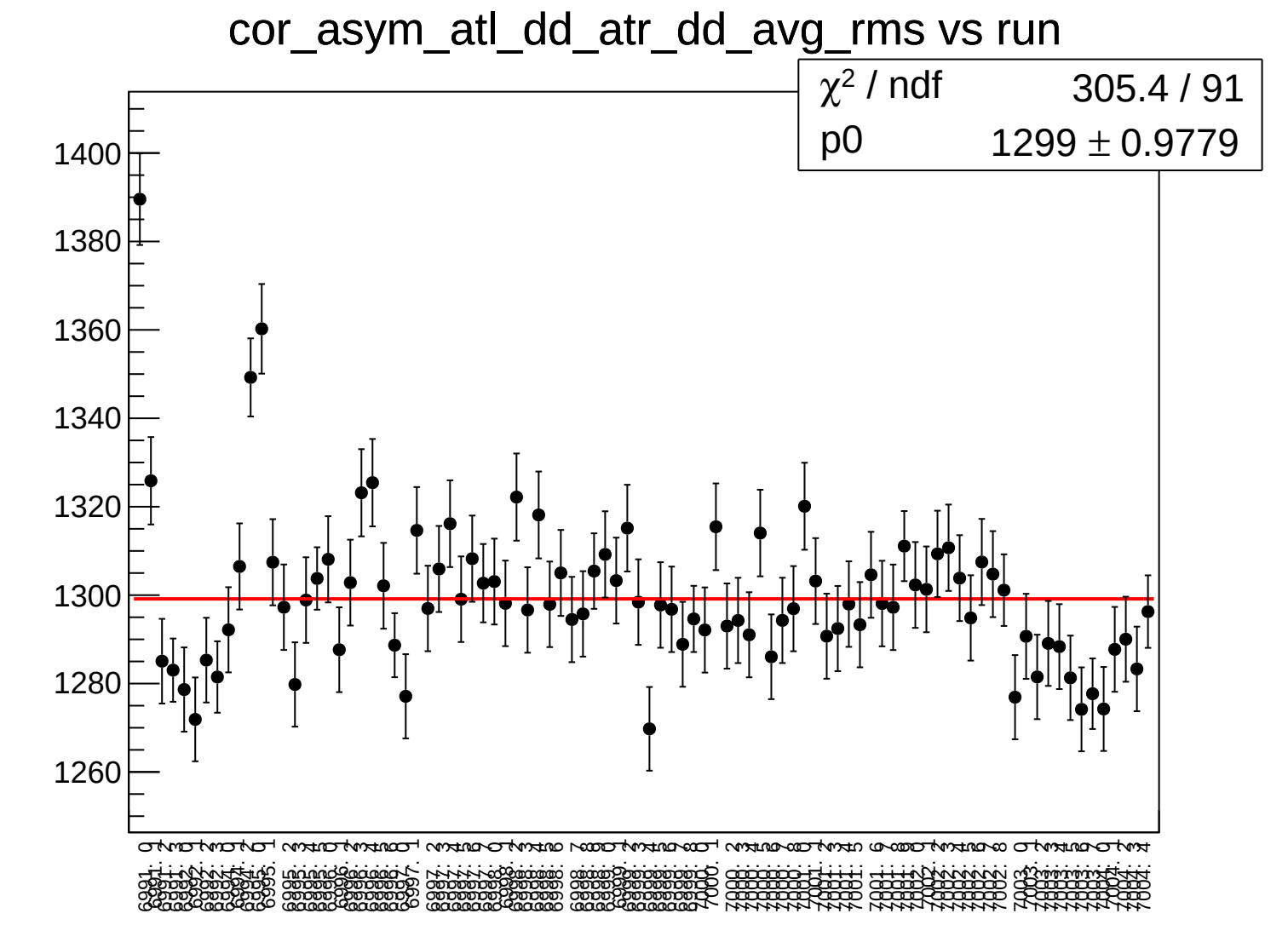

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 3003 ± 4204
pull
Entries 92
Mean −3677
Std Dev 0

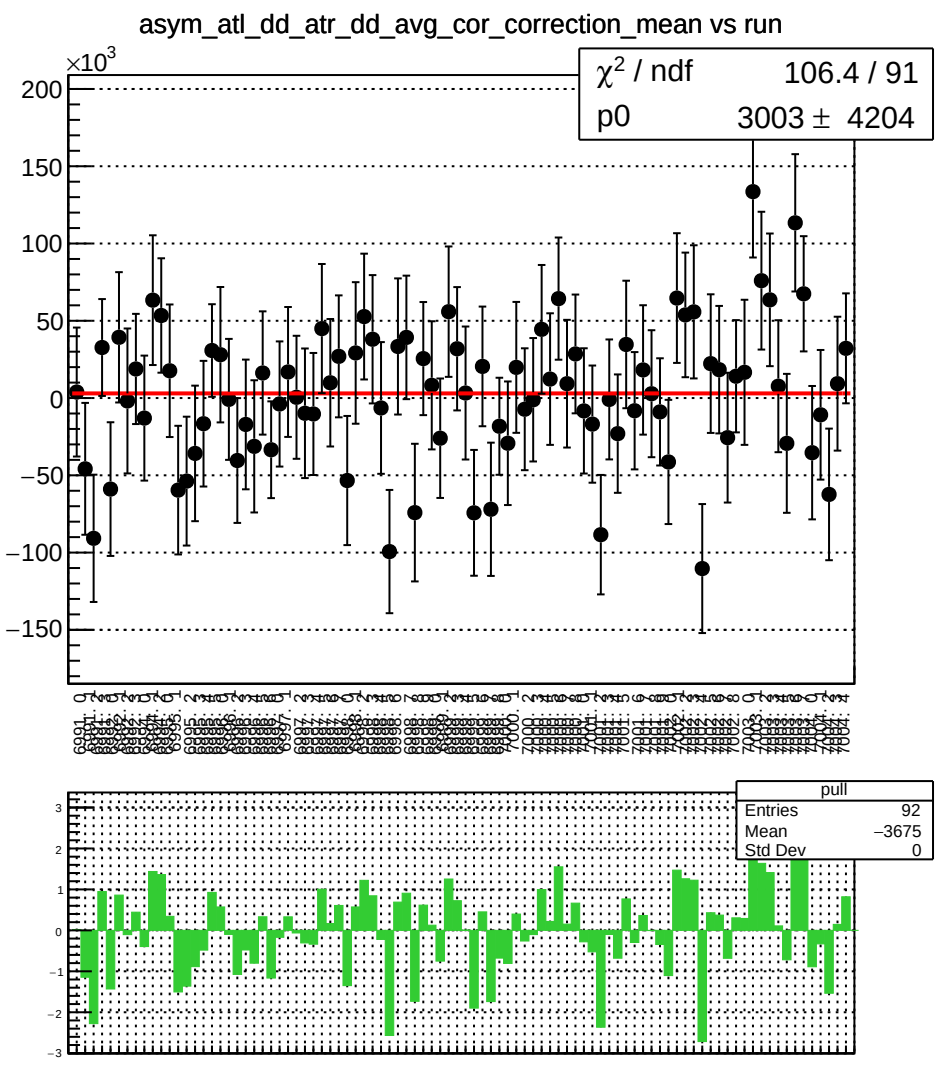

pull1D
Entries 92
Mean −0.00135
Std Dev 1.076

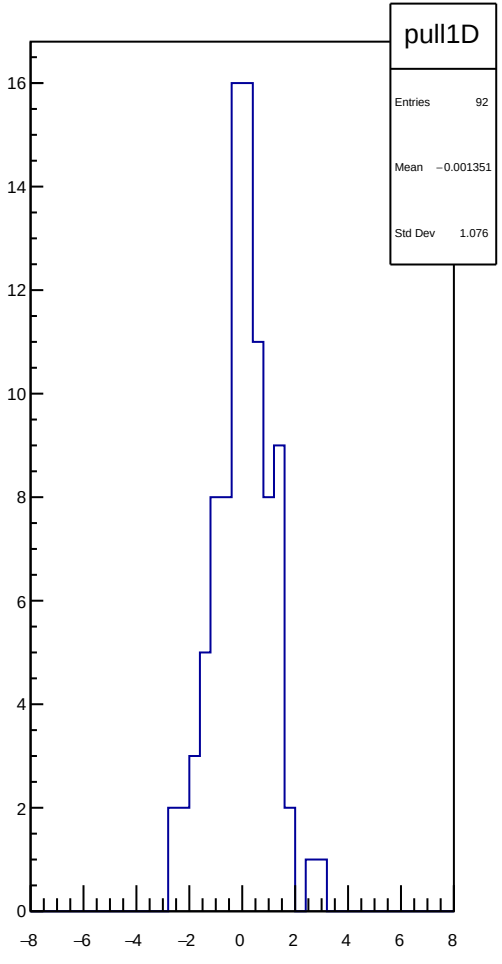

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 3283 / 91
p0 3945 ± 2.972
4400
4200
4000
3800
3600

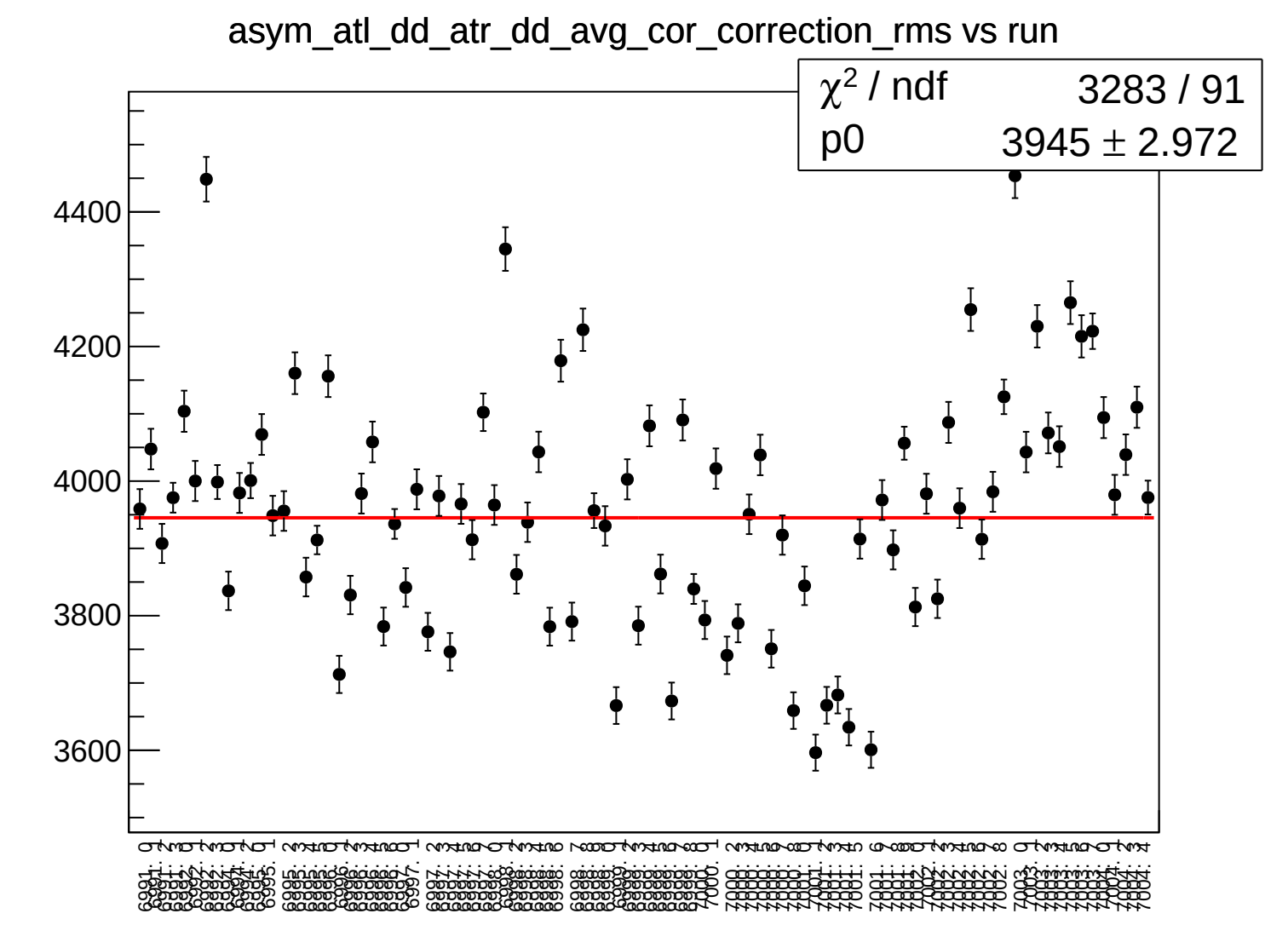

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 79.84 / 91
p0 −388.3 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 3374
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

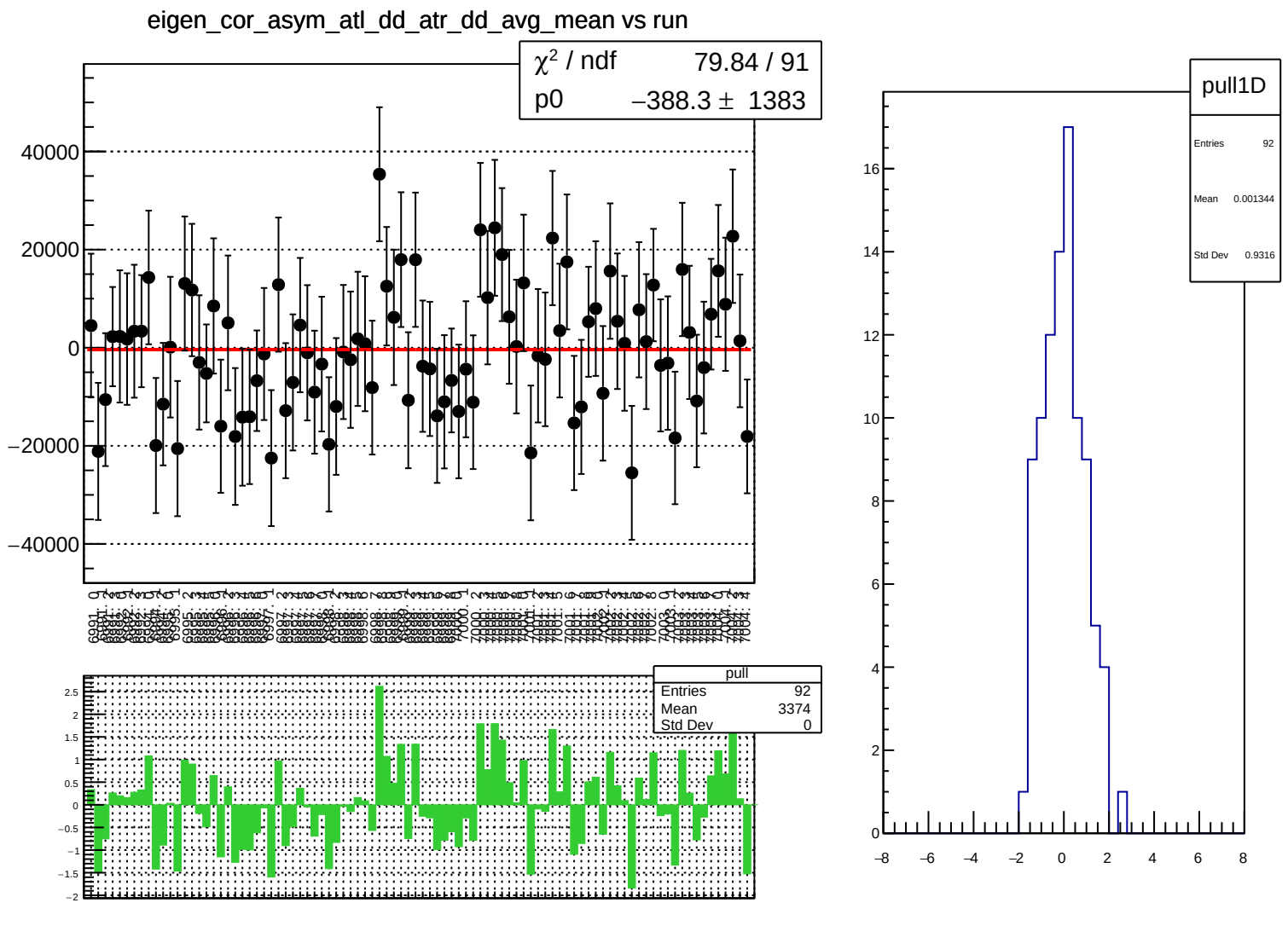

pull1D
Entries 92
Mean 0.001344
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

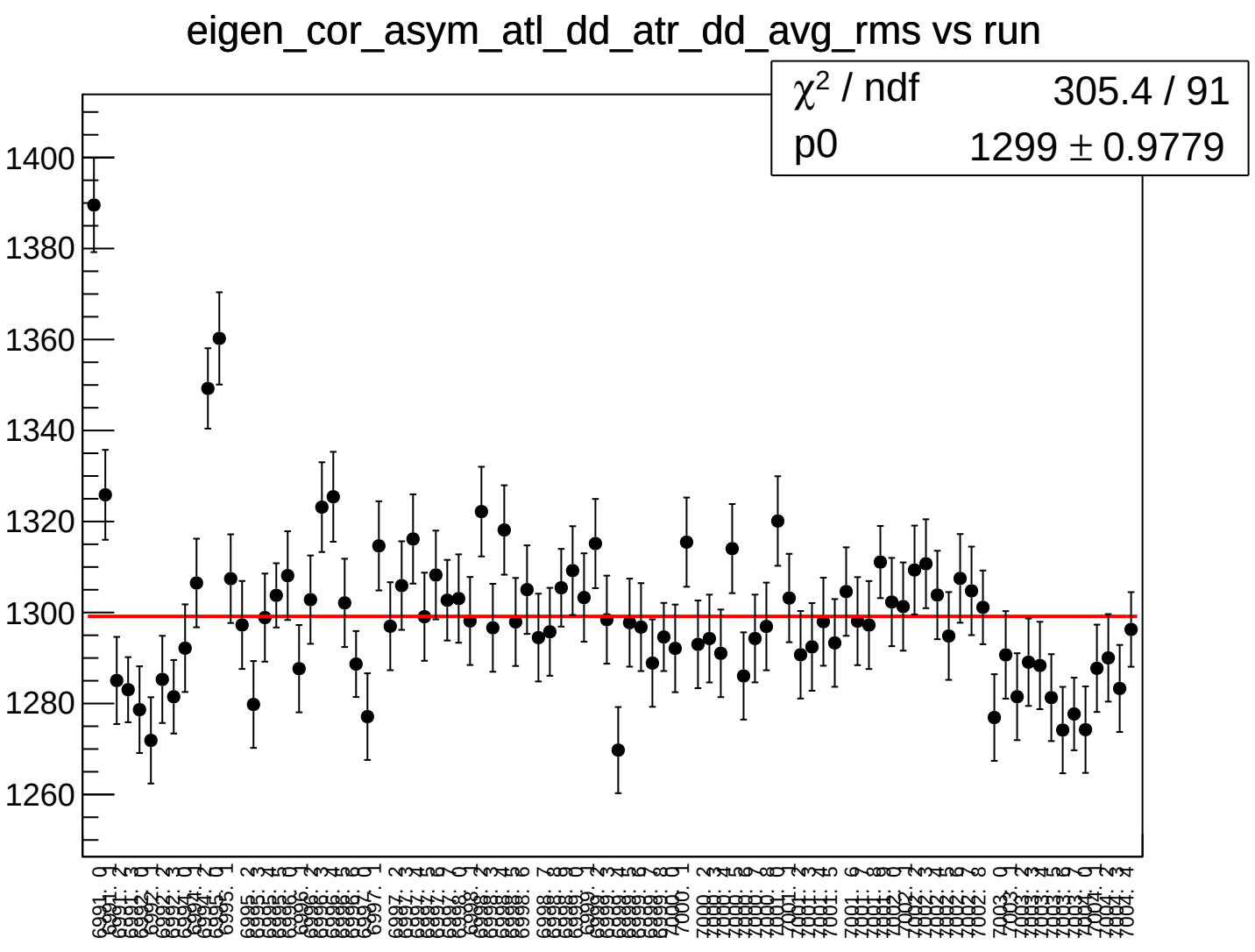

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 305.4 / 91
p0 1299 ± 0.9779
1400
1380
1360
1340
1320
1300
1280
1260

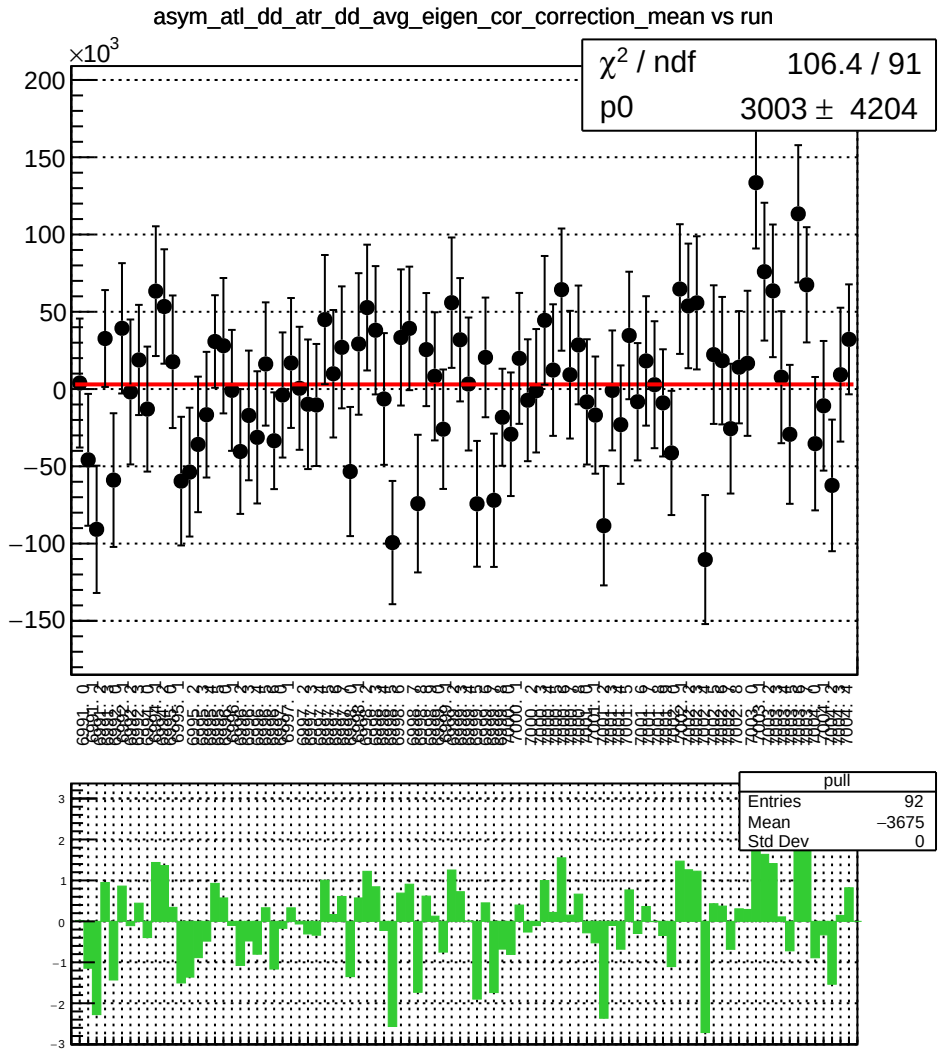

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 3003 ± 4204
pull
Entries 92
Mean −3675
Std Dev 0

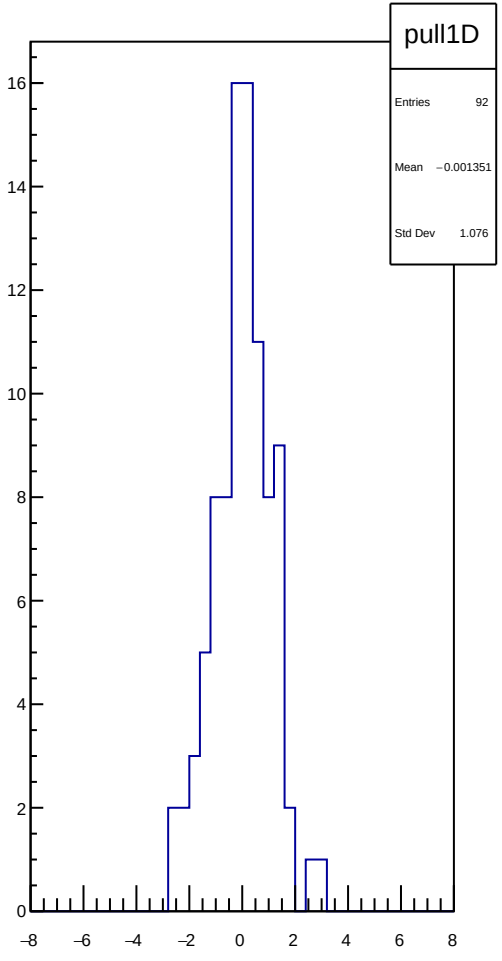

pull1D
Entries 92
Mean −0.001351
Std Dev 1.076

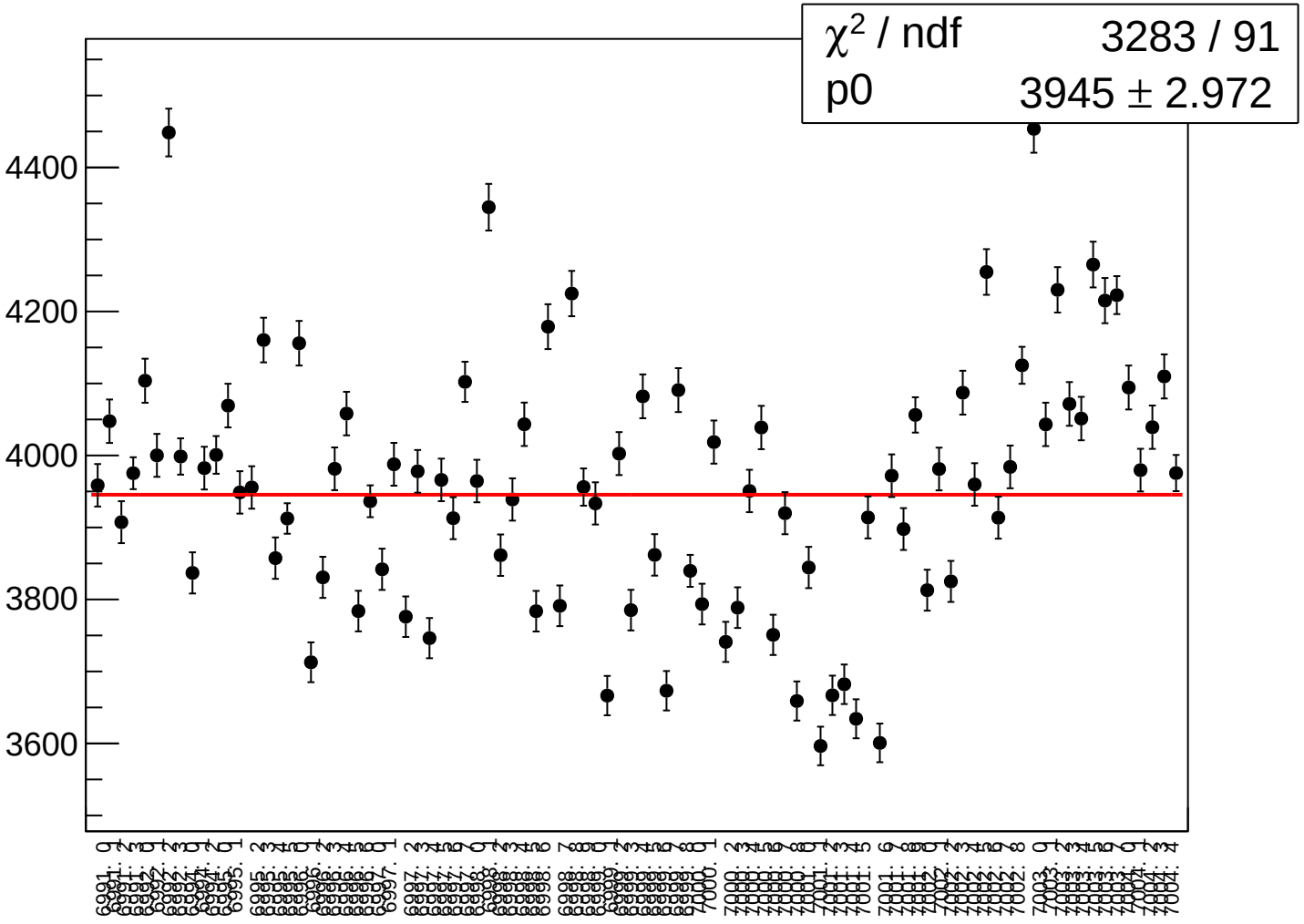

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 3283 / 91
p0 3945 ± 2.972
4400
4200
4000
3800
3600

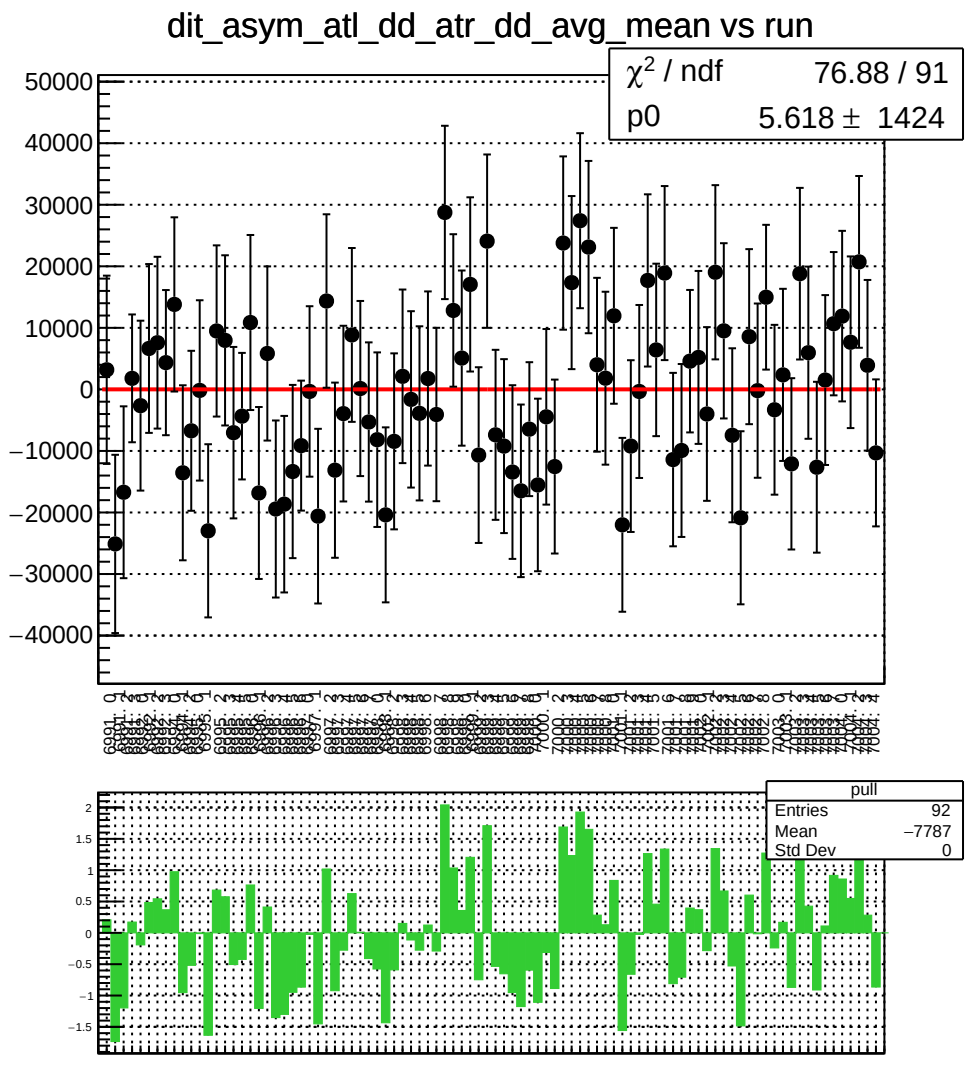

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 79.84 / 91
p0 −388.3 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 3374
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.001344
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

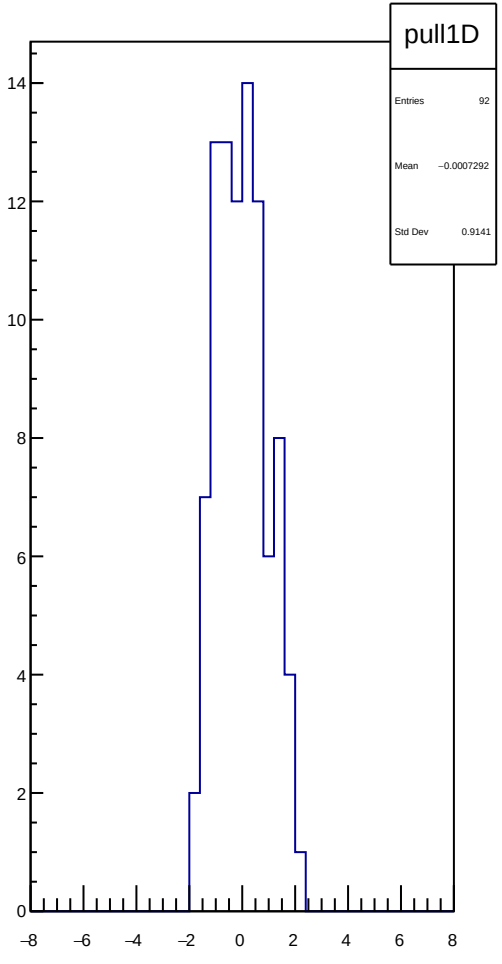

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 305.4 / 91
p0 1299 ± 0.9779
1400
1380
1360
1340
1320
1300
1280
1260

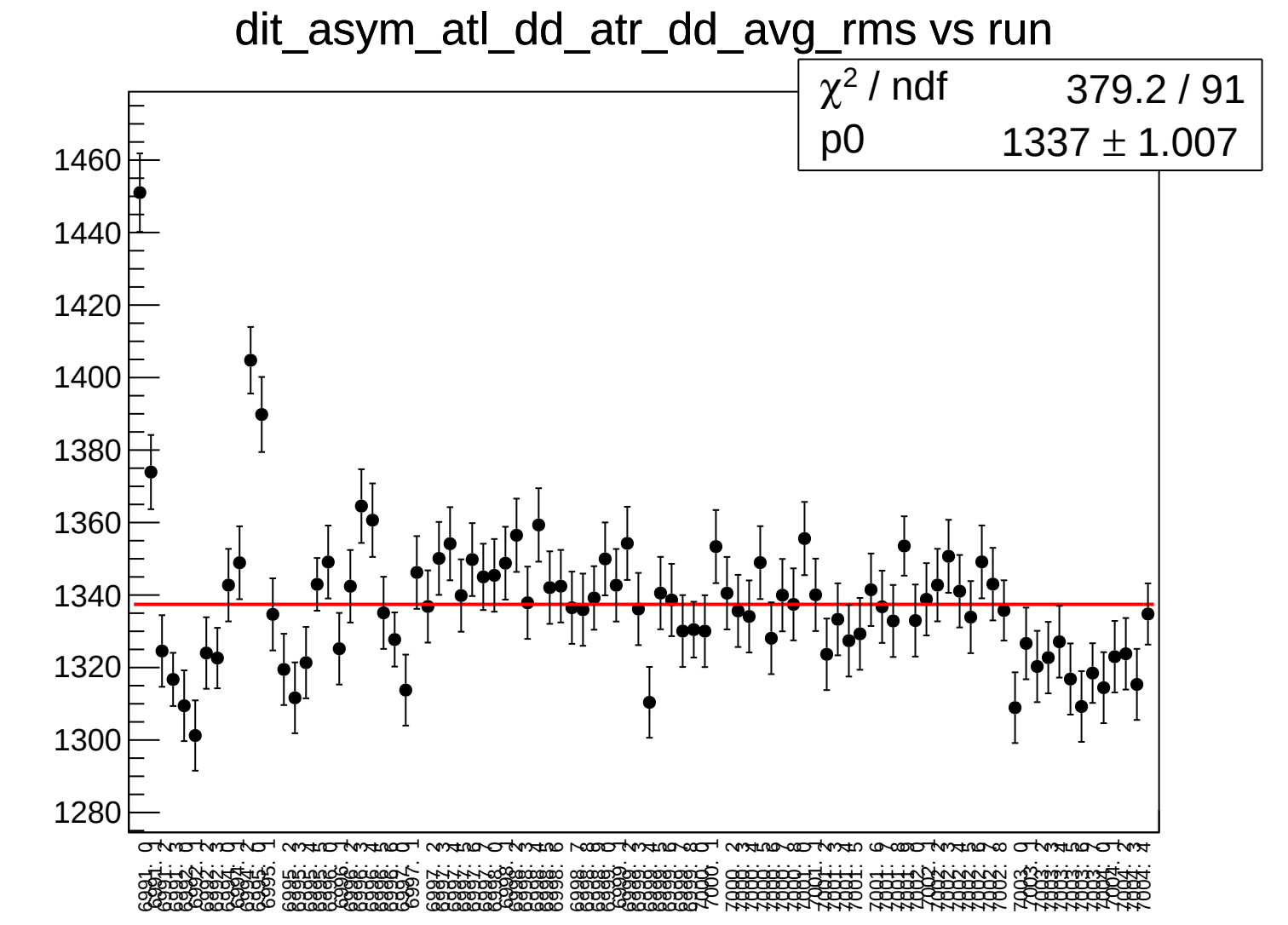

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 3003 ± 4204
pull
Entries 92
Mean −3675
Std Dev 0

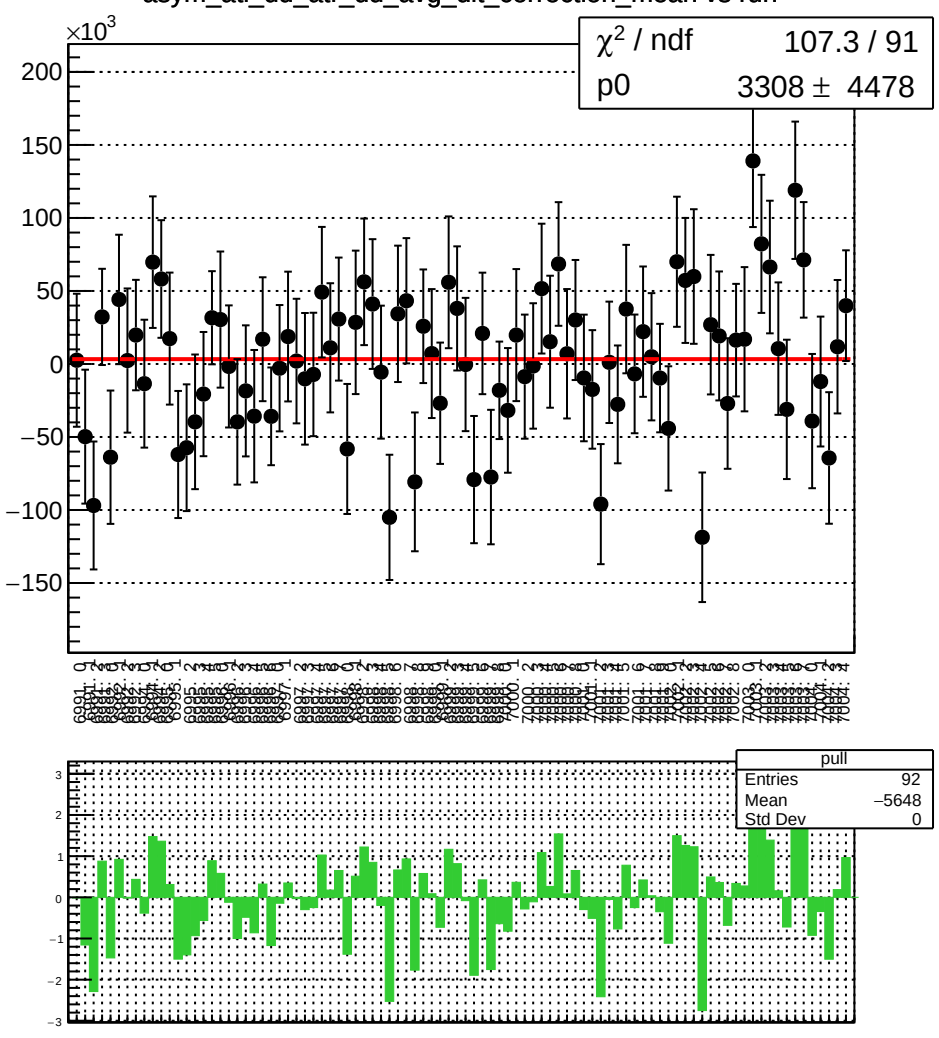

pull1D
Entries 92
Mean −0.001351
Std Dev 1.076

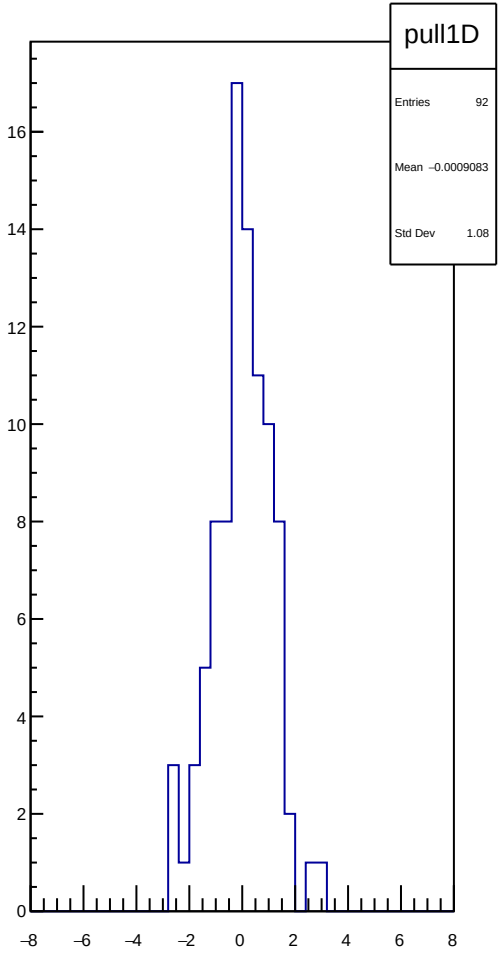

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3283 / 91
p0 3945 ± 2.972
4400
4200
4000
3800
3600

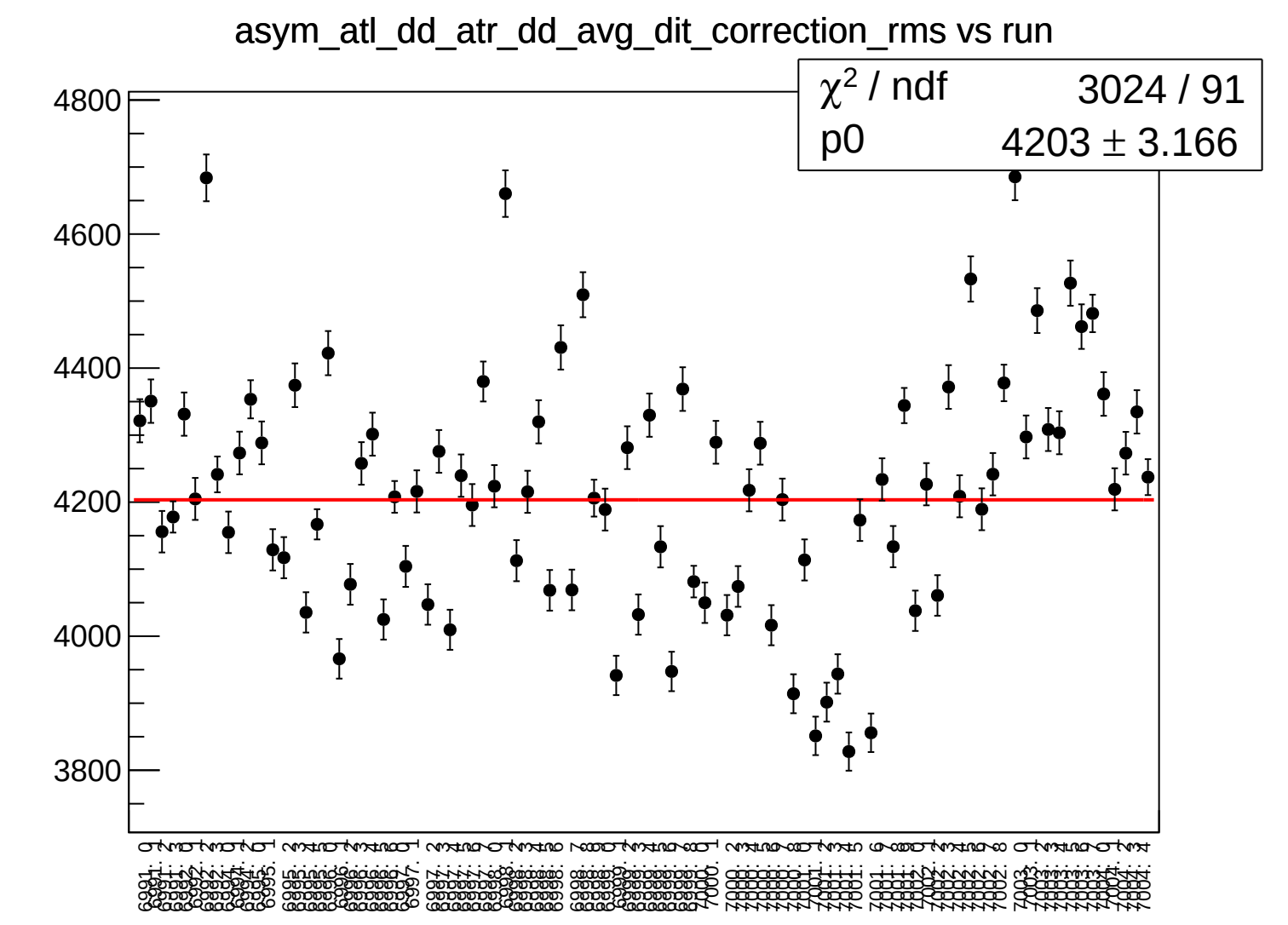

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.88 / 91
p0 5.618 ± 1424
pull
Entries 92
Mean −7787
Std Dev 0

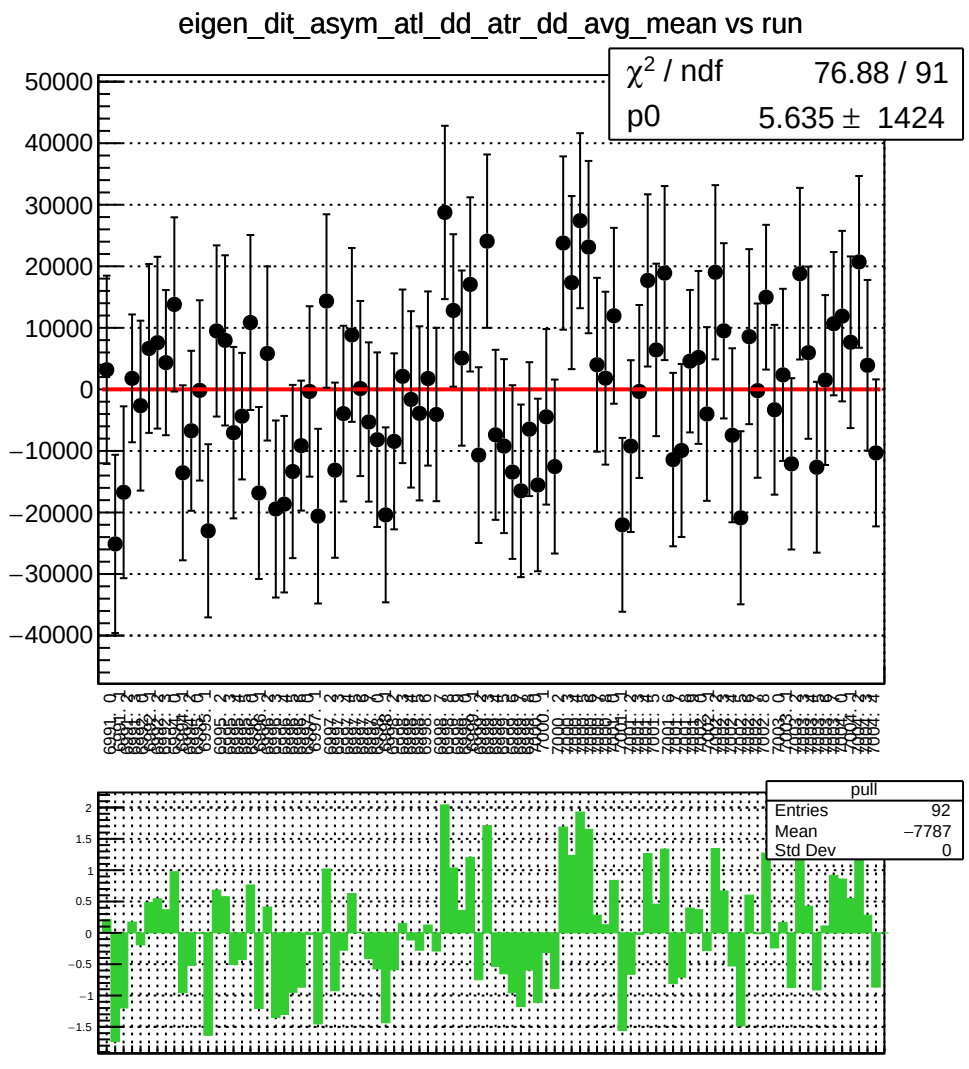

pull1D
Entries 92
Mean −0.0007292
Std Dev 0.9141

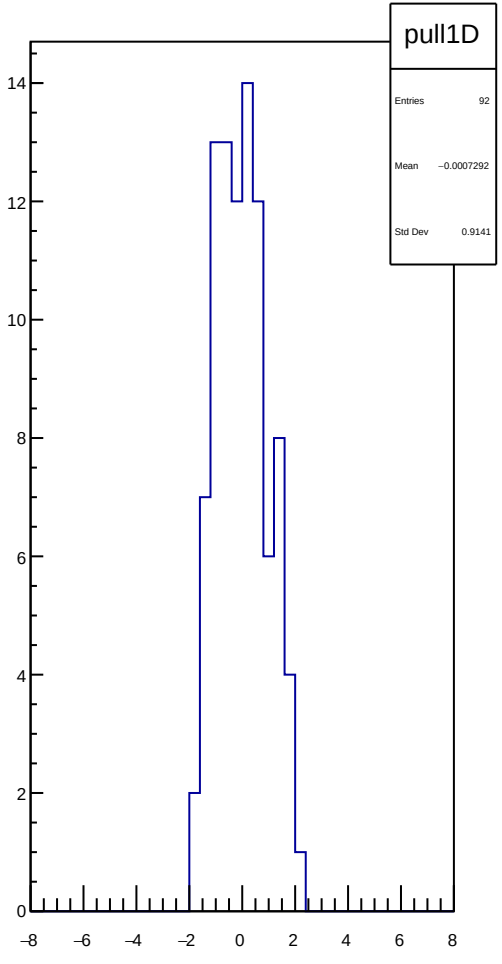

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 379.2 / 91
p0 1337 ± 1.007
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

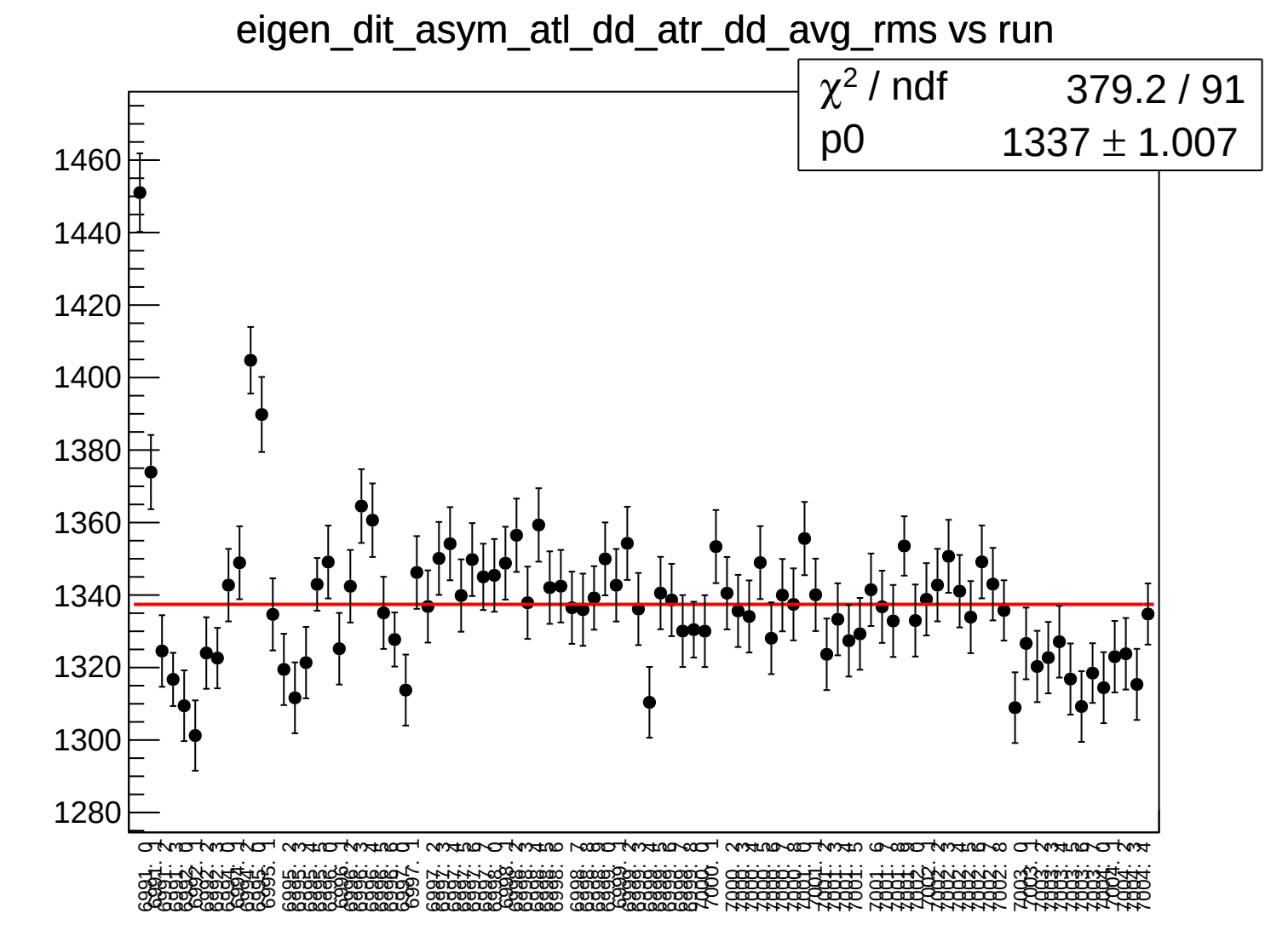

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 3308 ± 4478
pull
Entries 92
Mean −5648
Std Dev 0

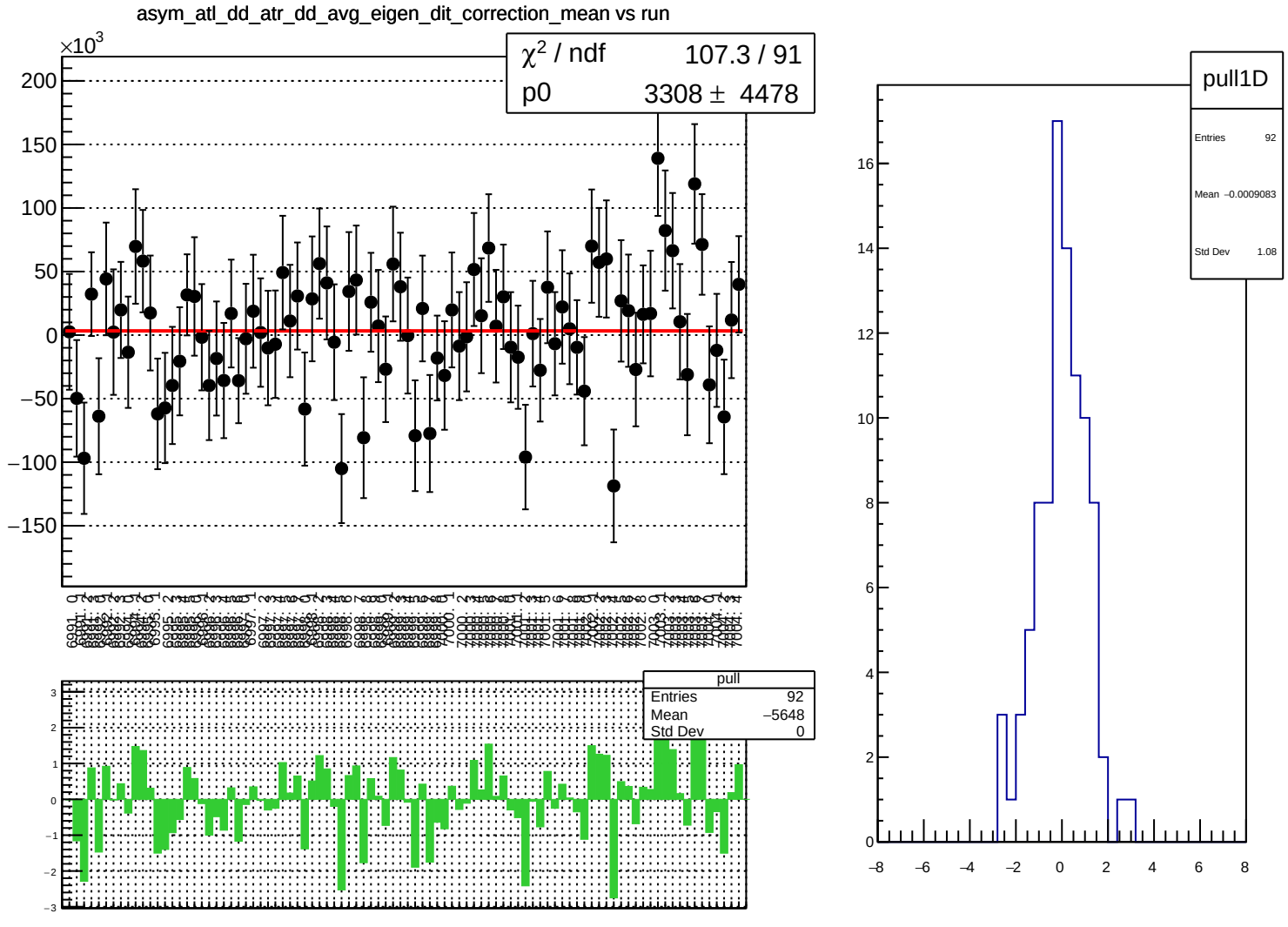

pull1D
Entries 92
Mean −0.0009083
Std Dev 1.08

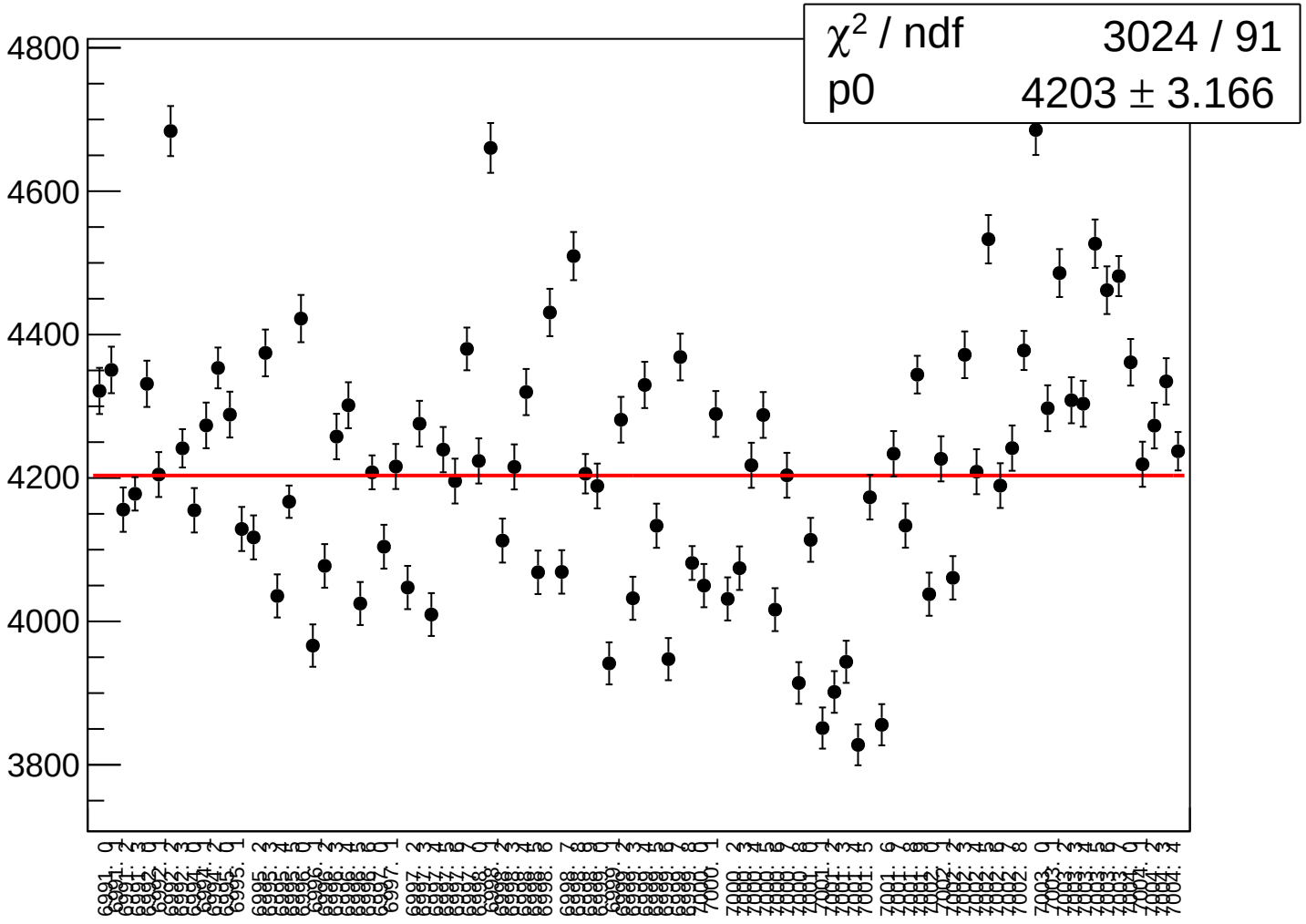

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3024 / 91
p0 4203 ± 3.166
4800
4600
4400
4200
4000
3800

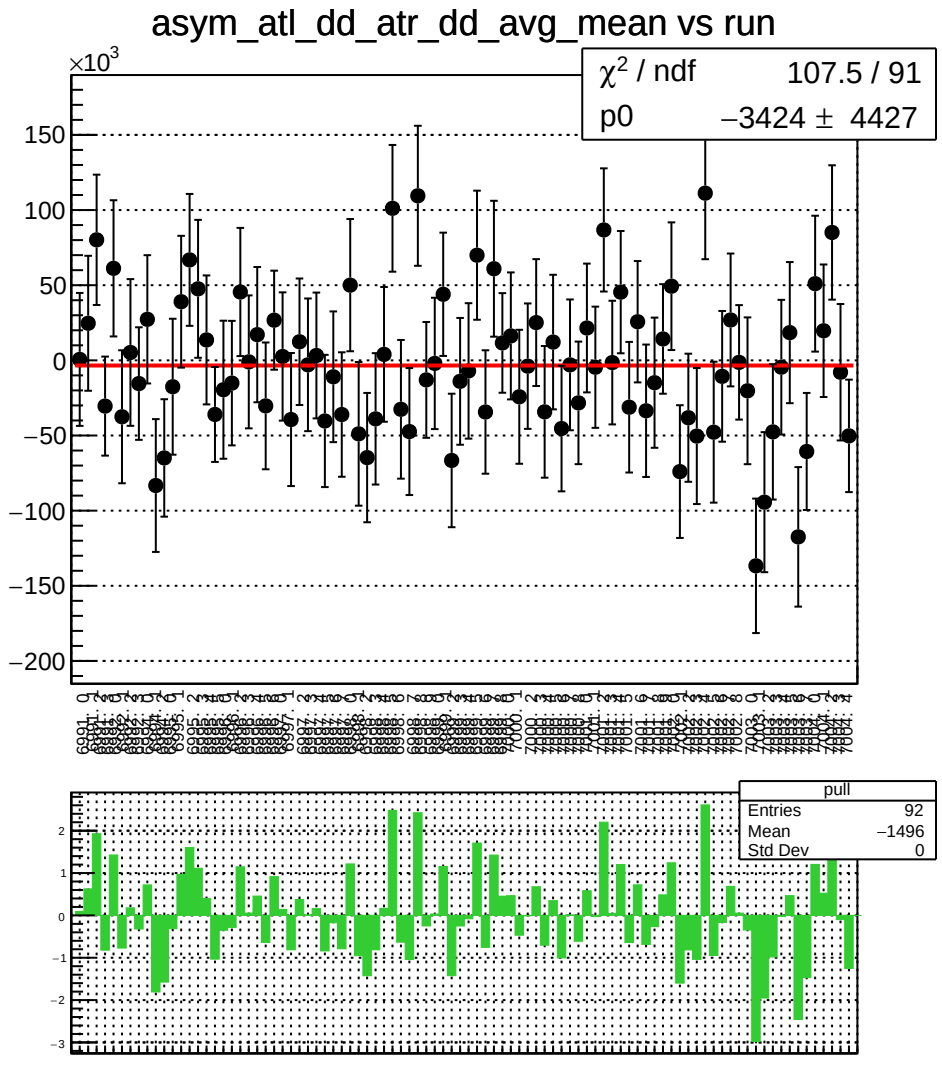

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 76.88 / 91
p0 5.635 ± 1424
pull
Entries 92
Mean −7787
Std Dev 0

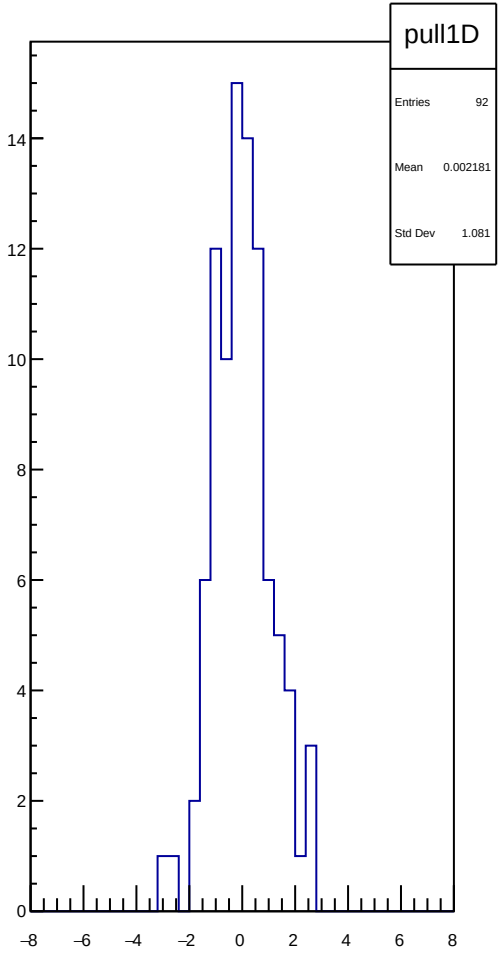

pull1D
Entries 92
Mean −0.0007292
Std Dev 0.9141

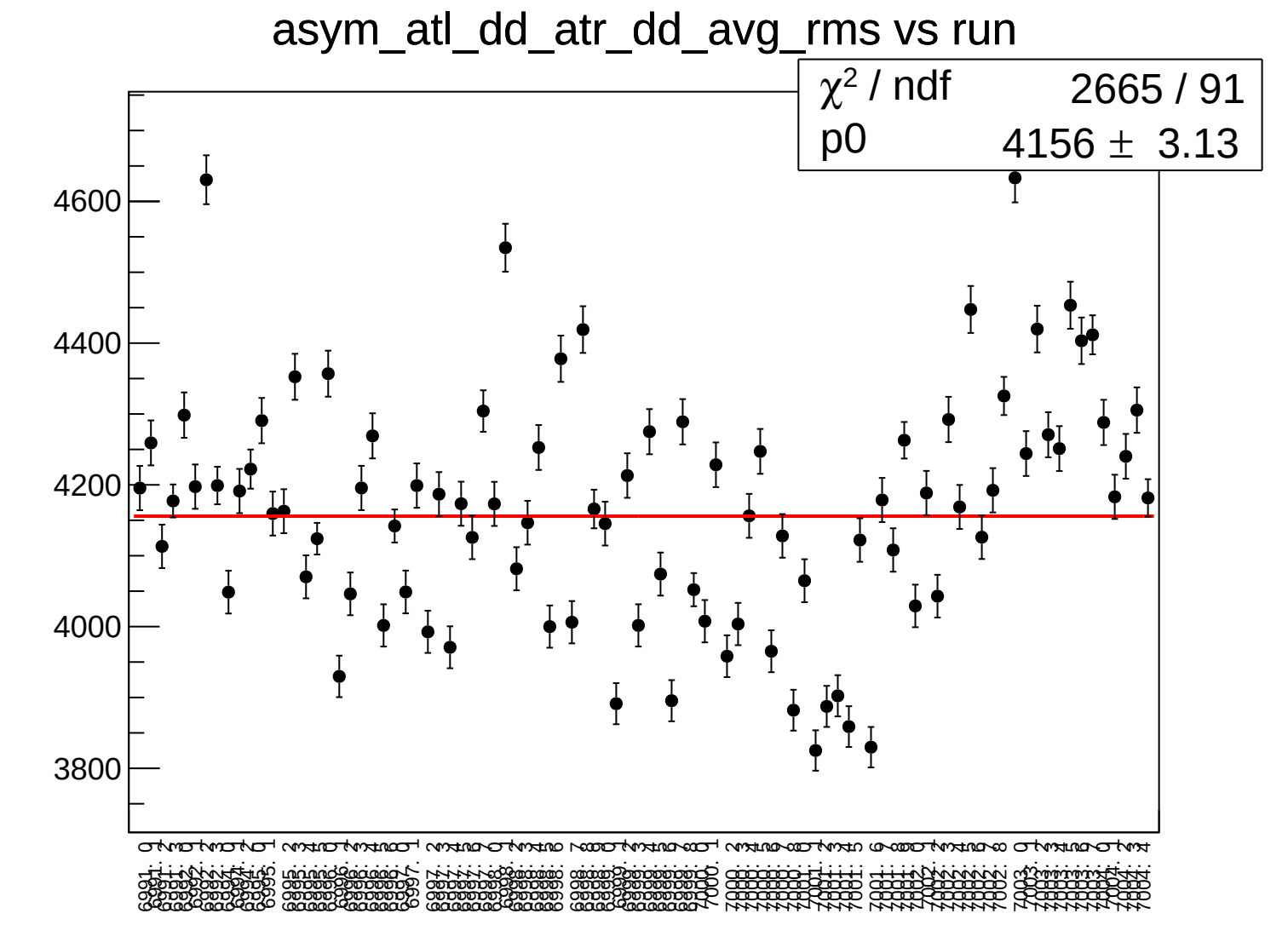

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 379.2 / 91
p0 1337 ± 1.007
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

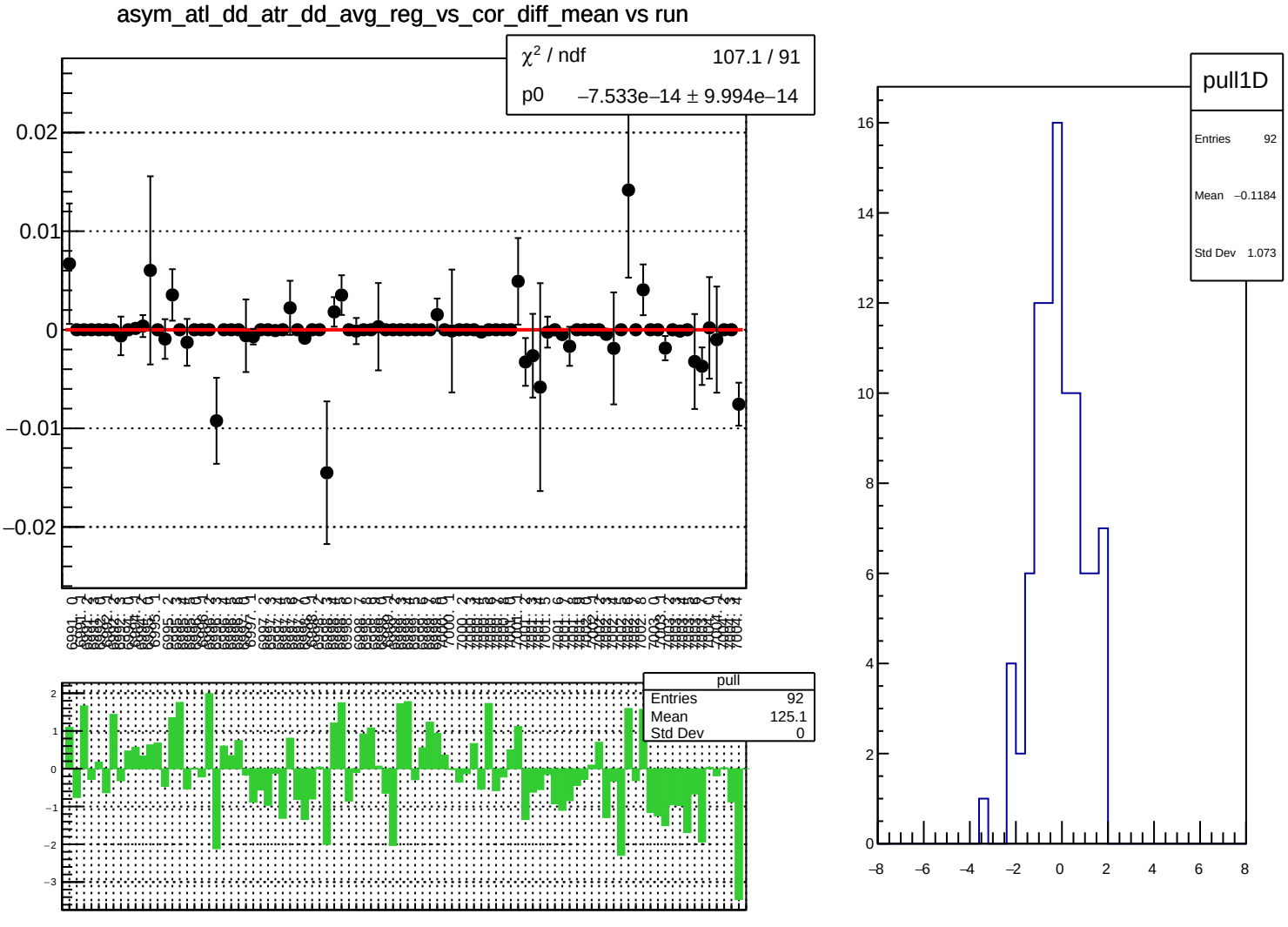

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 3308 ± 4478
pull
Entries 92
Mean −5648
Std Dev 0
pull1D
Entries 92
Mean −0.0009083
Std Dev 1.08

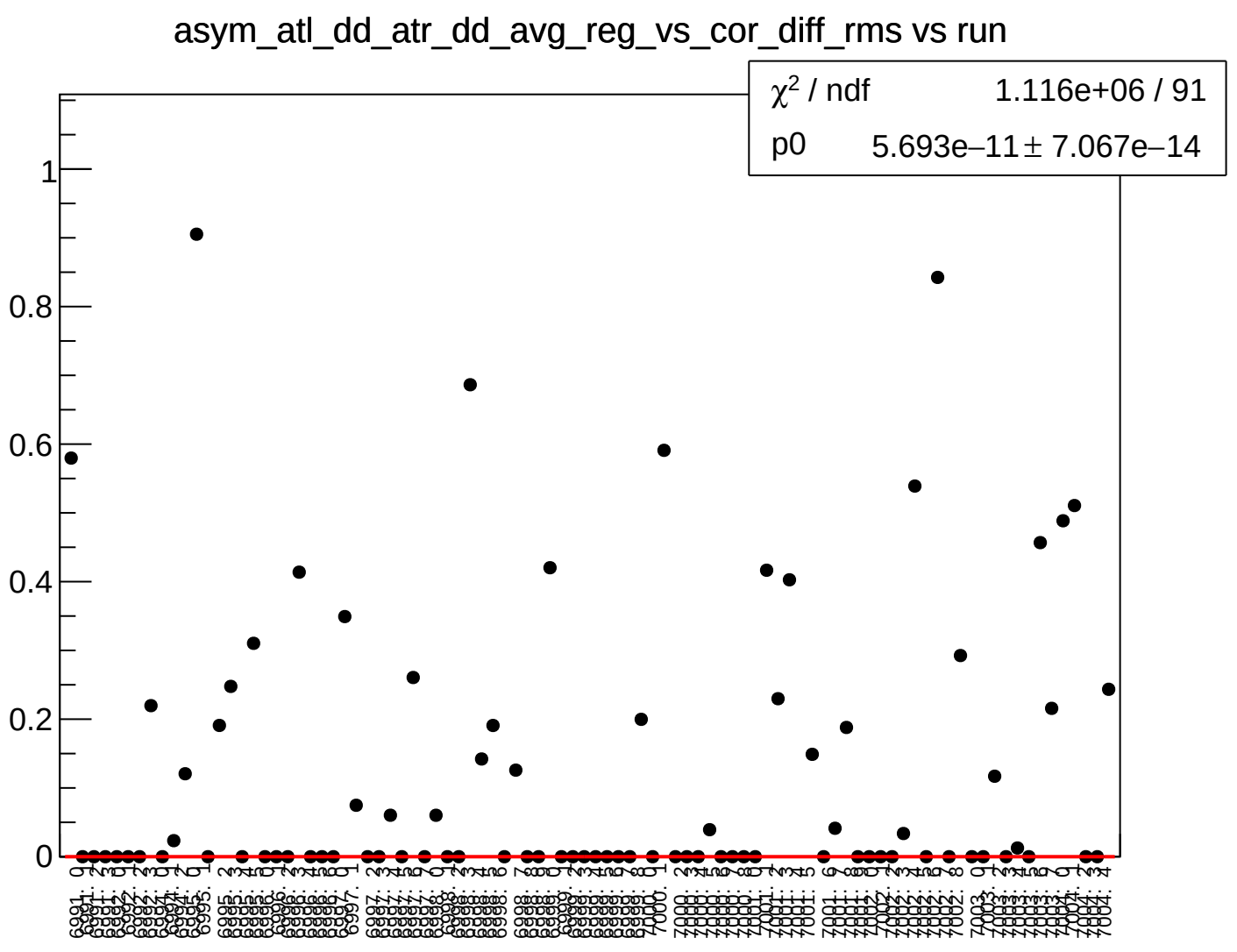

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3024 / 91
p0 4203 ± 3.166
4800
4600
4400
4200
4000
3800

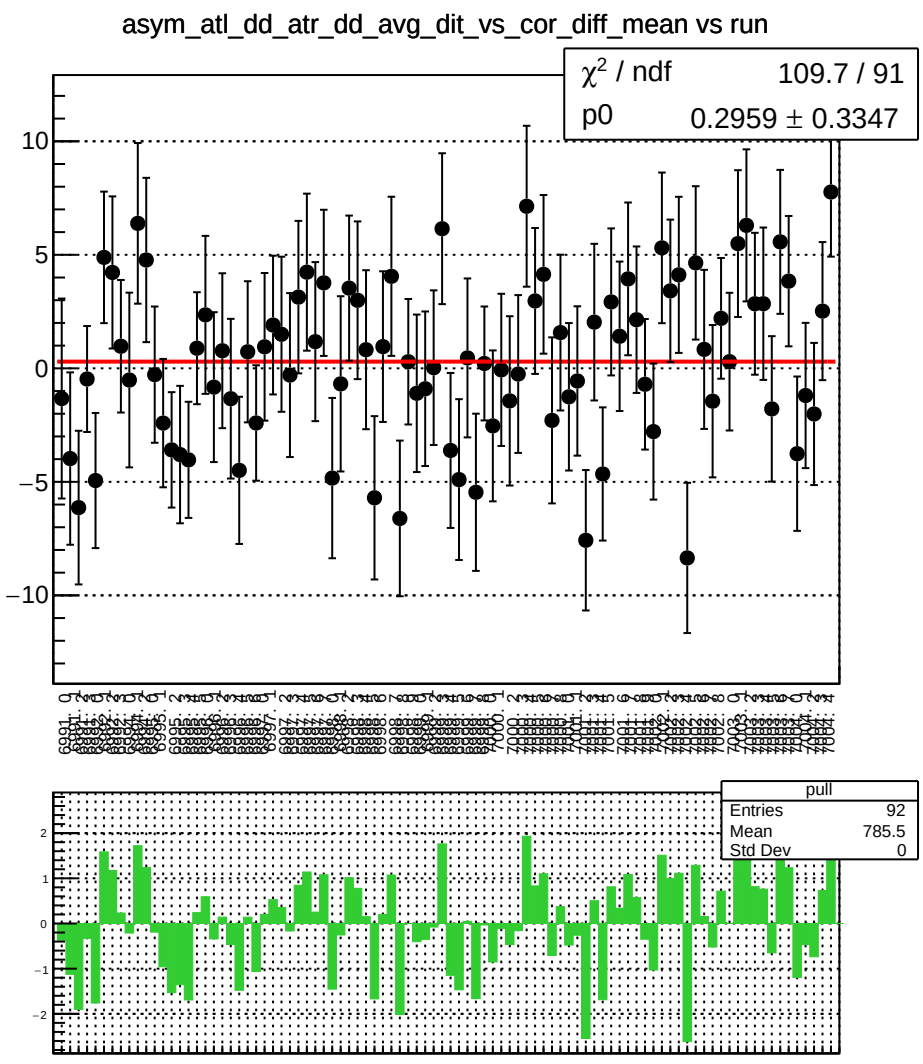

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 107.5 / 91
p0 −3424 ± 4427
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −1496
Std Dev 0
2
1
0
−1
−2
−3

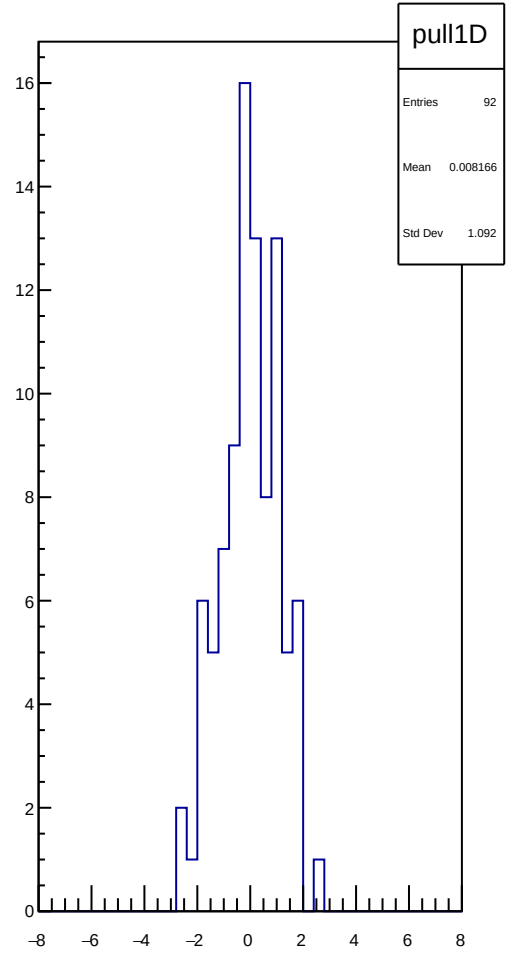

pull1D
Entries 92
Mean 0.002181
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

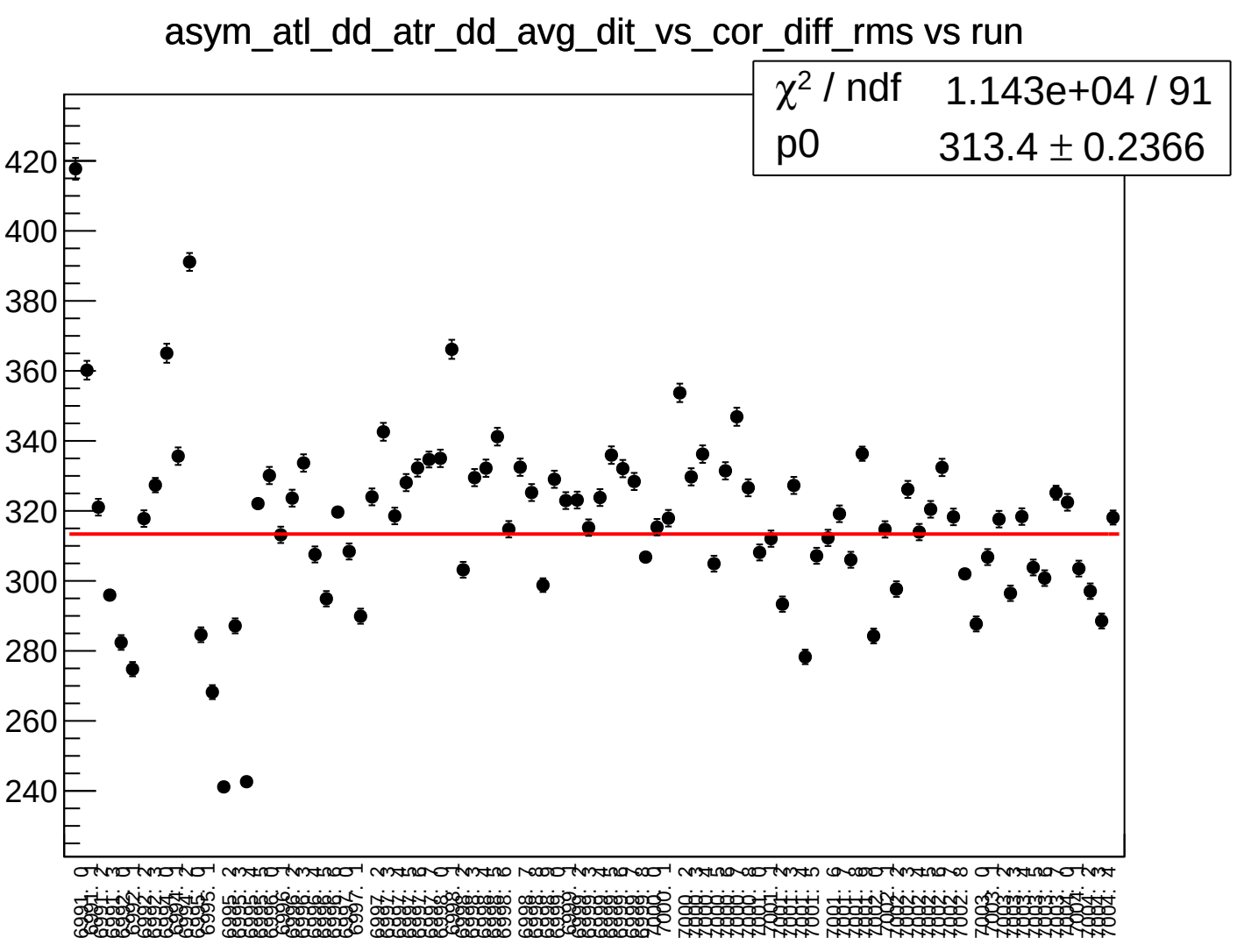

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2665 / 91
p0 4156 ± 3.13
4600
4400
4200
4000
3800

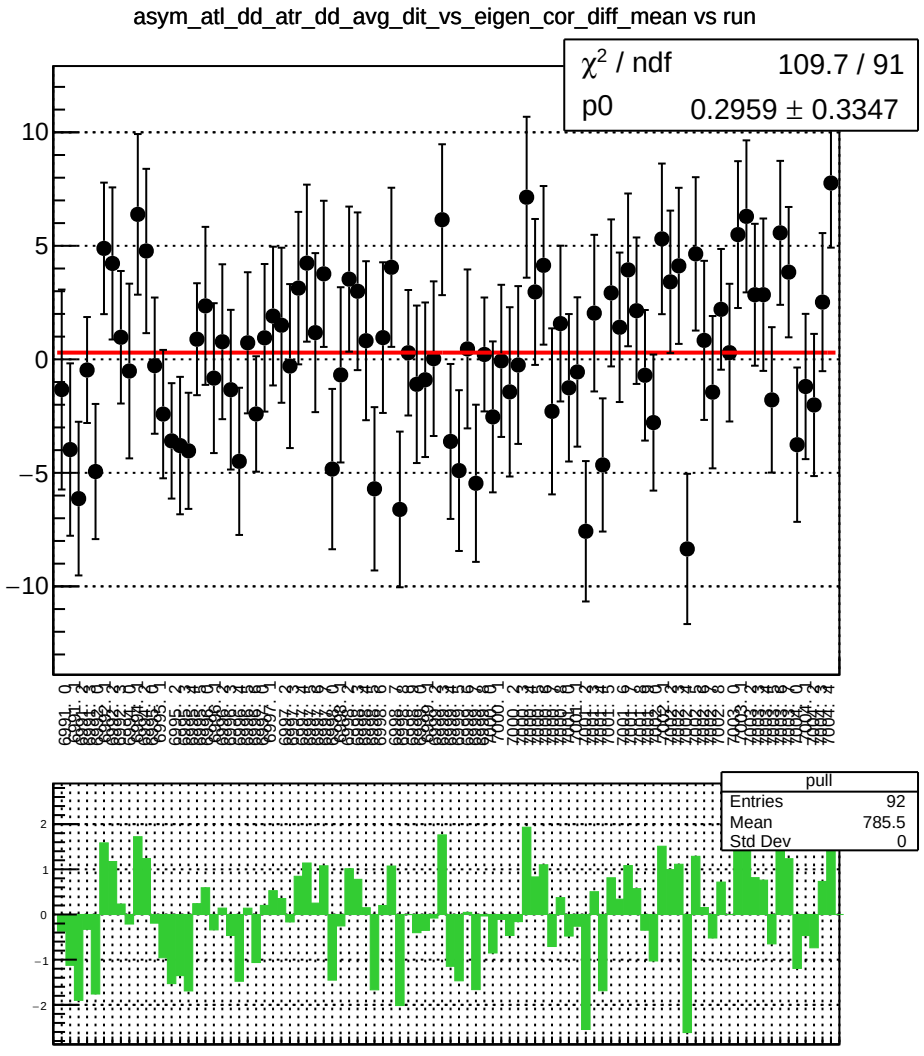

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 91
p0 −7.533e−14 ± 9.994e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 125.1
Std Dev 0
pull1D
Entries 92
Mean −0.1184
Std Dev 1.073

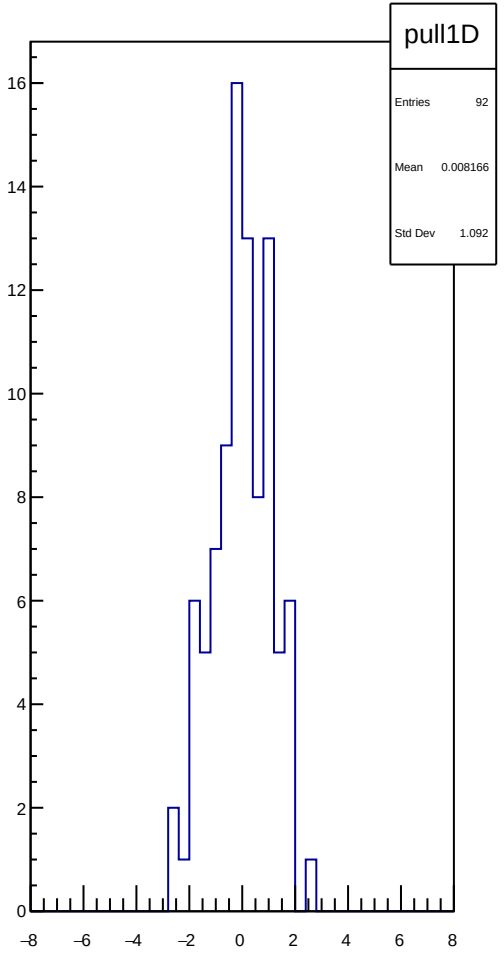

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.116e+06 / 91
p0 5.693e−11 ± 7.067e−14
1
0.8
0.6
0.4
0.2
0

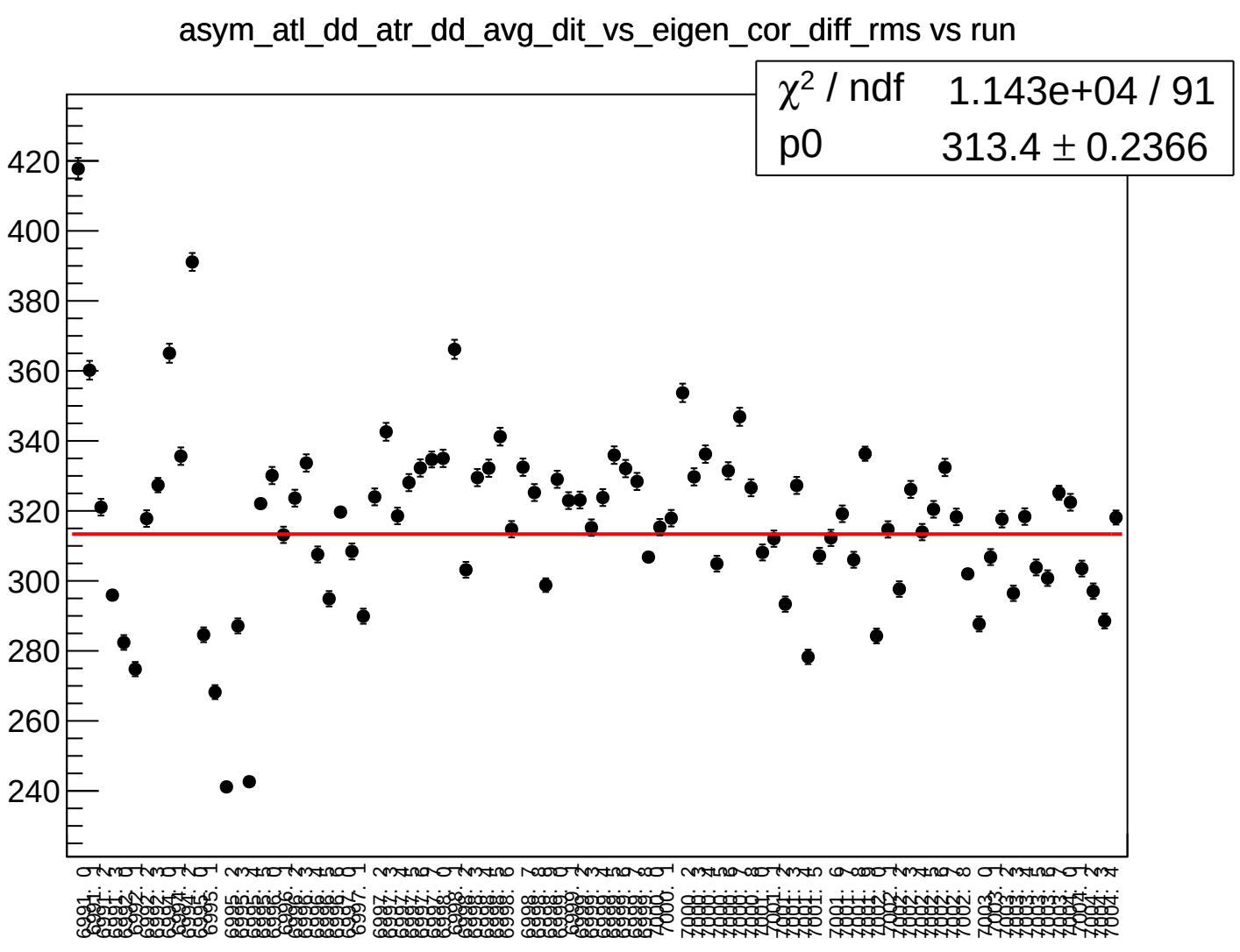

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0

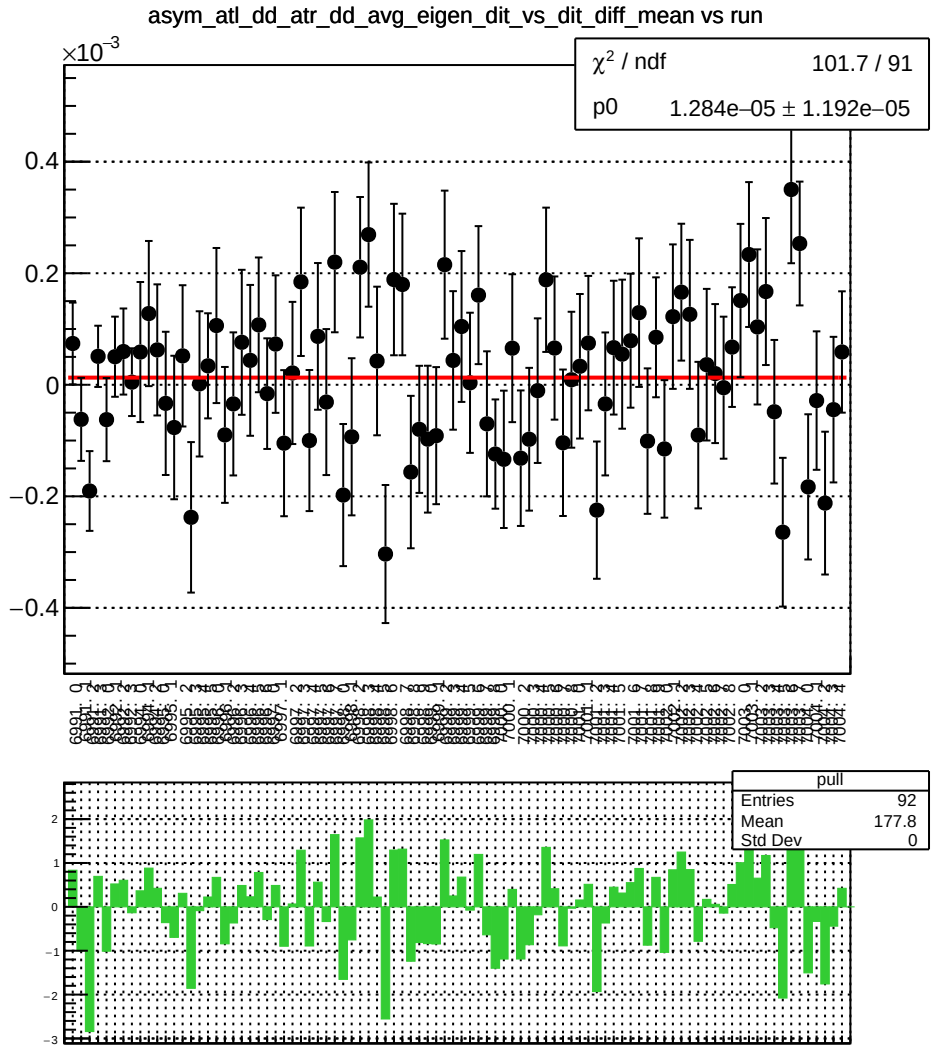

pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

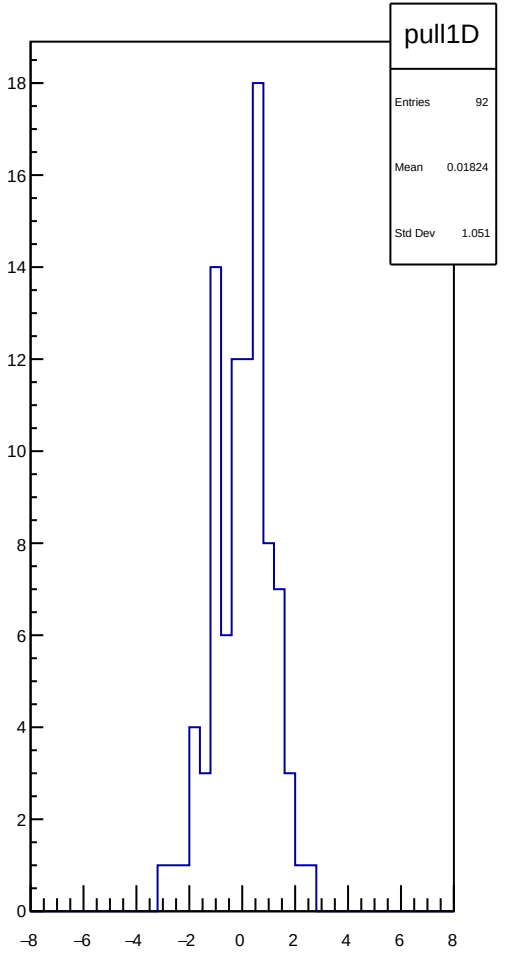

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

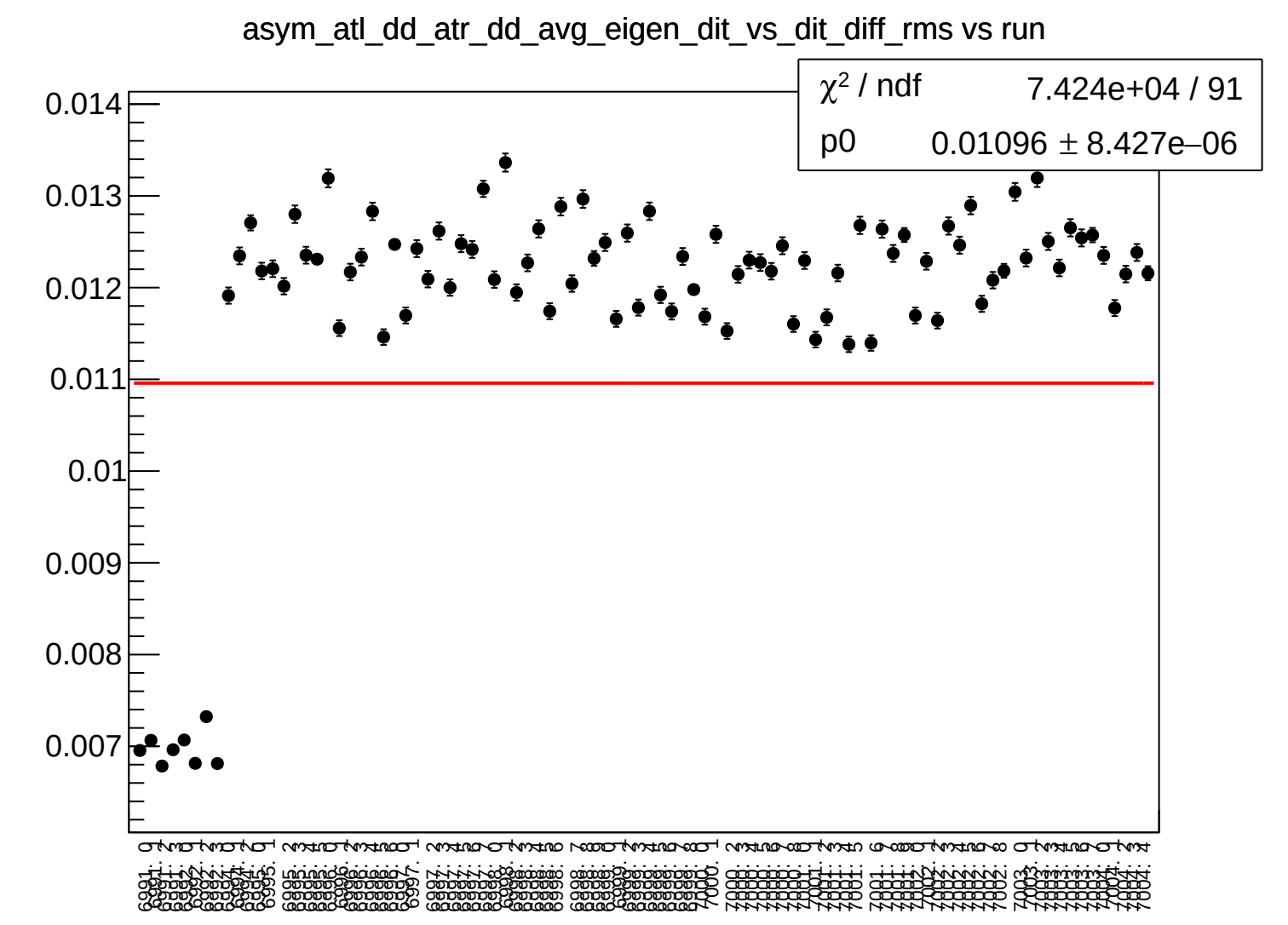

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0

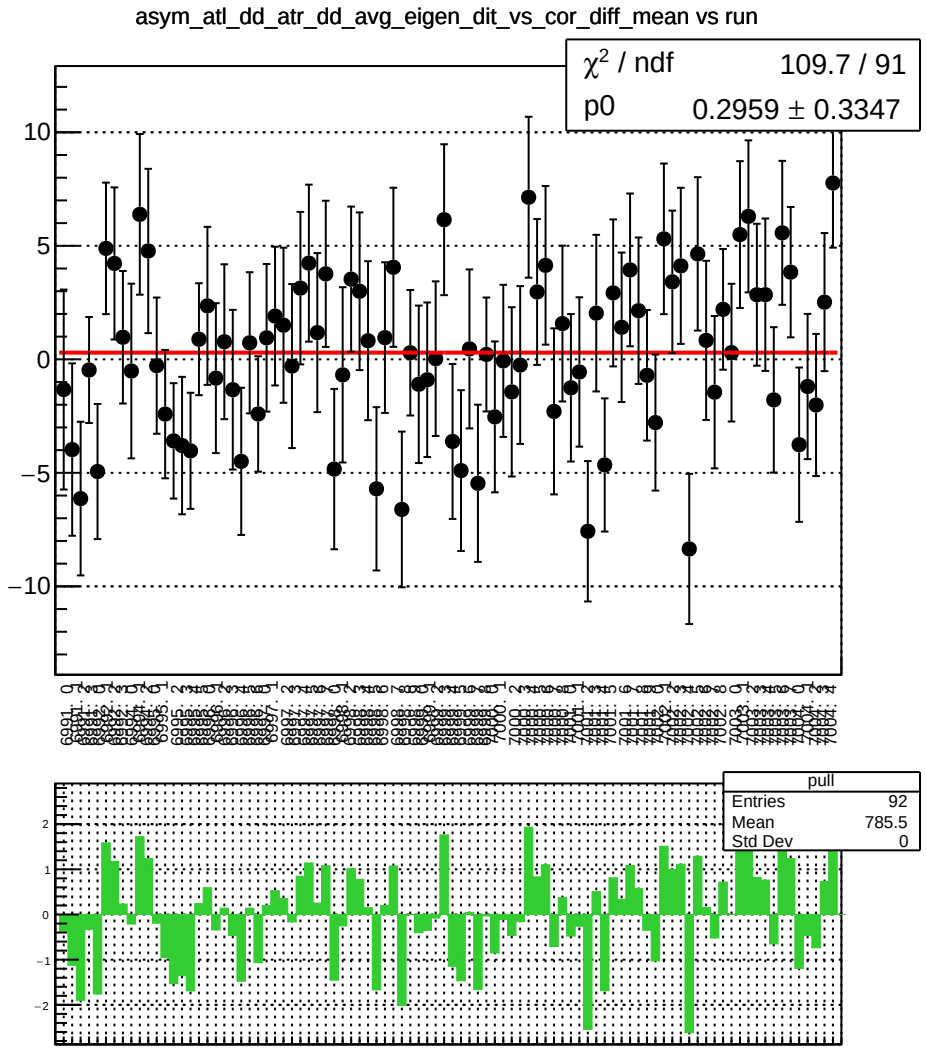

pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

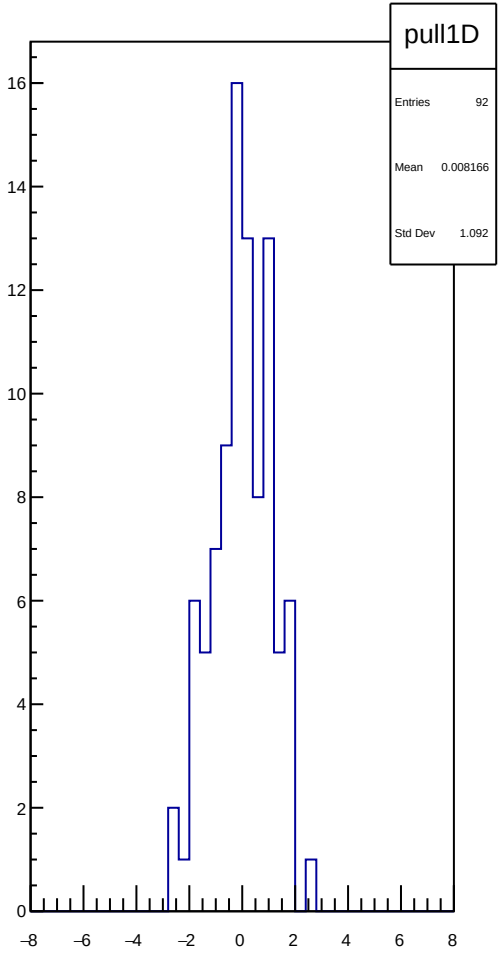

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

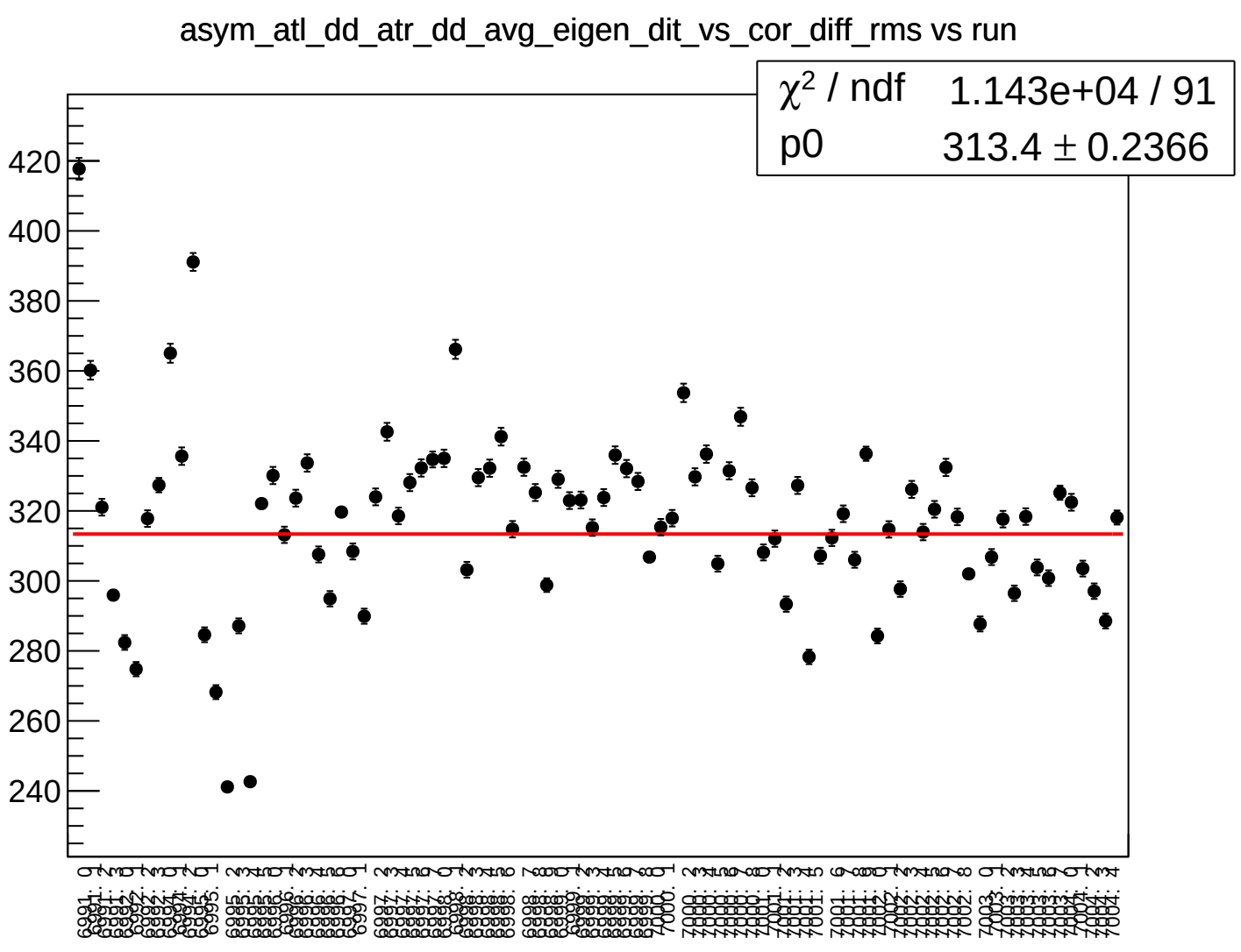

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 91
p0 1.284e−05 ± 1.192e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 177.8
Std Dev 0
2
1
0
−1
−2
−3

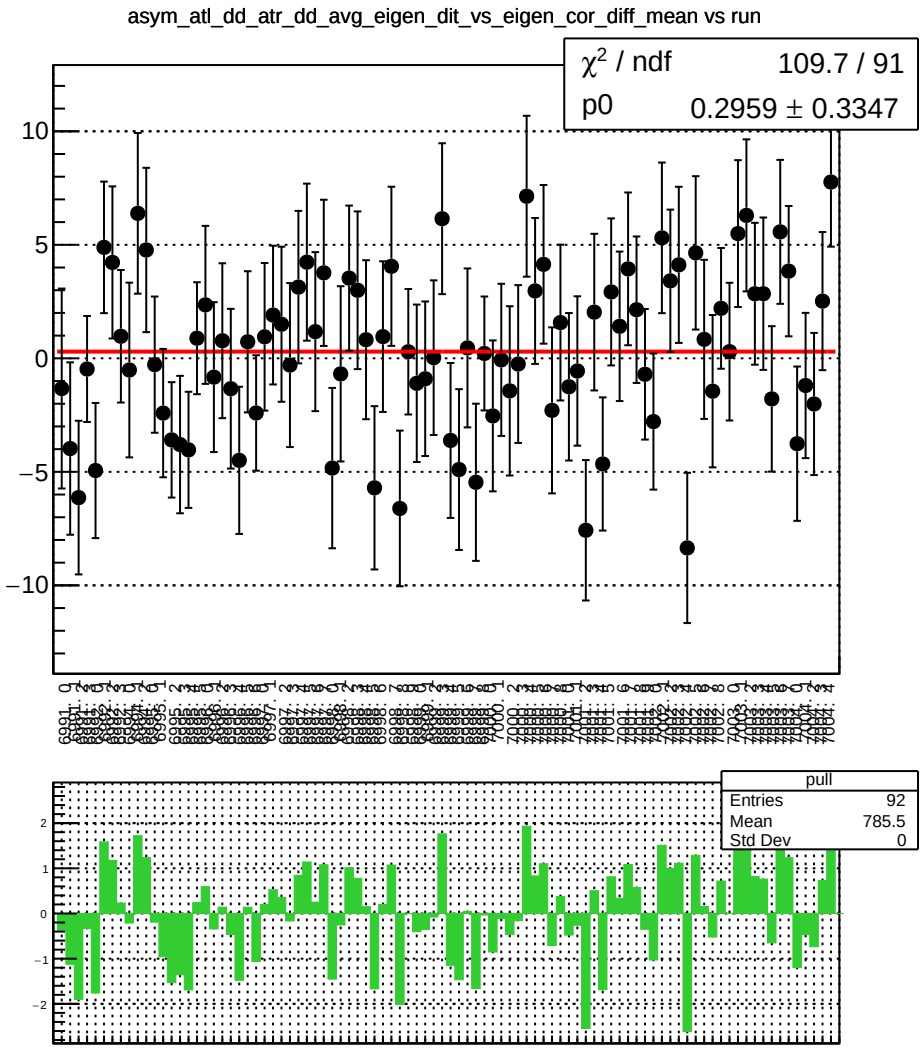

pull1D
Entries 92
Mean 0.01824
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

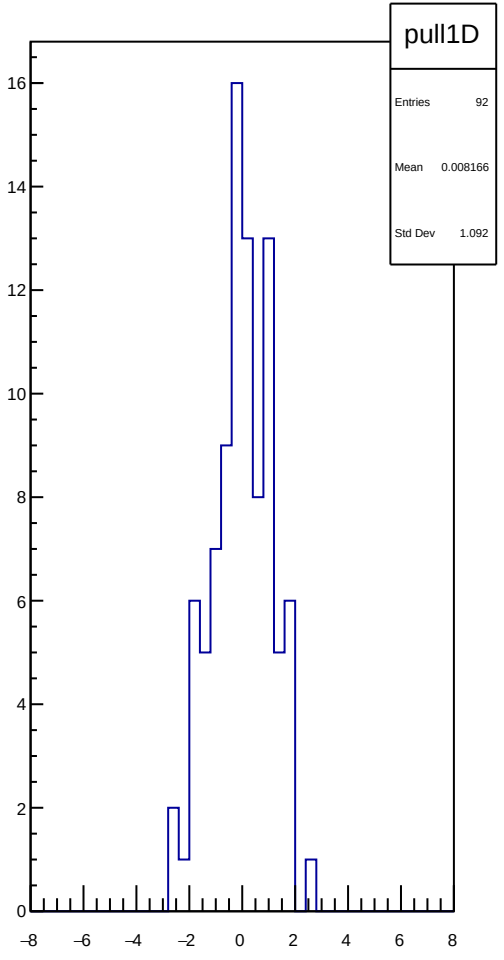

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.424e+04 / 91
p0 0.01096 ± 8.427e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

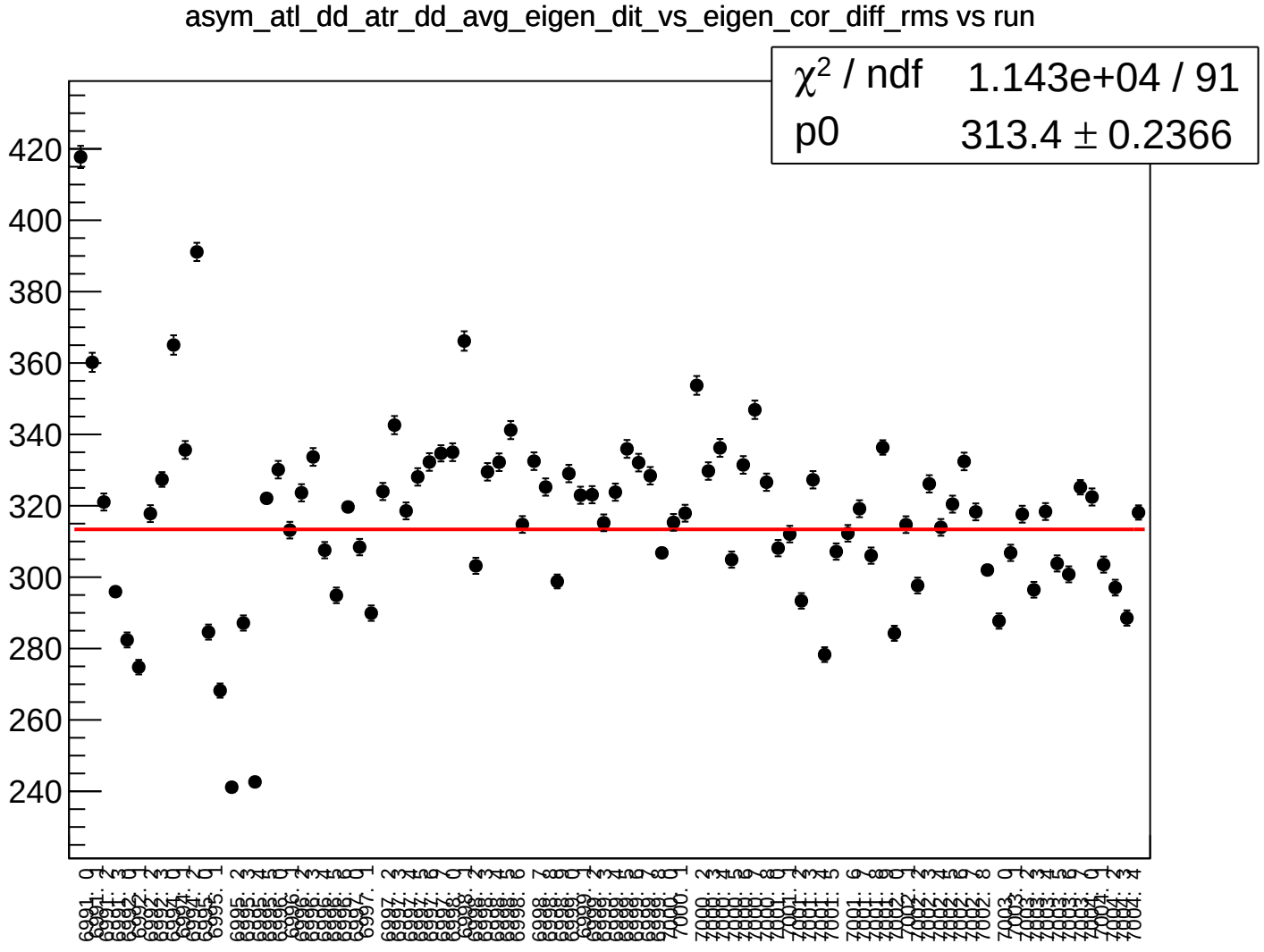

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0

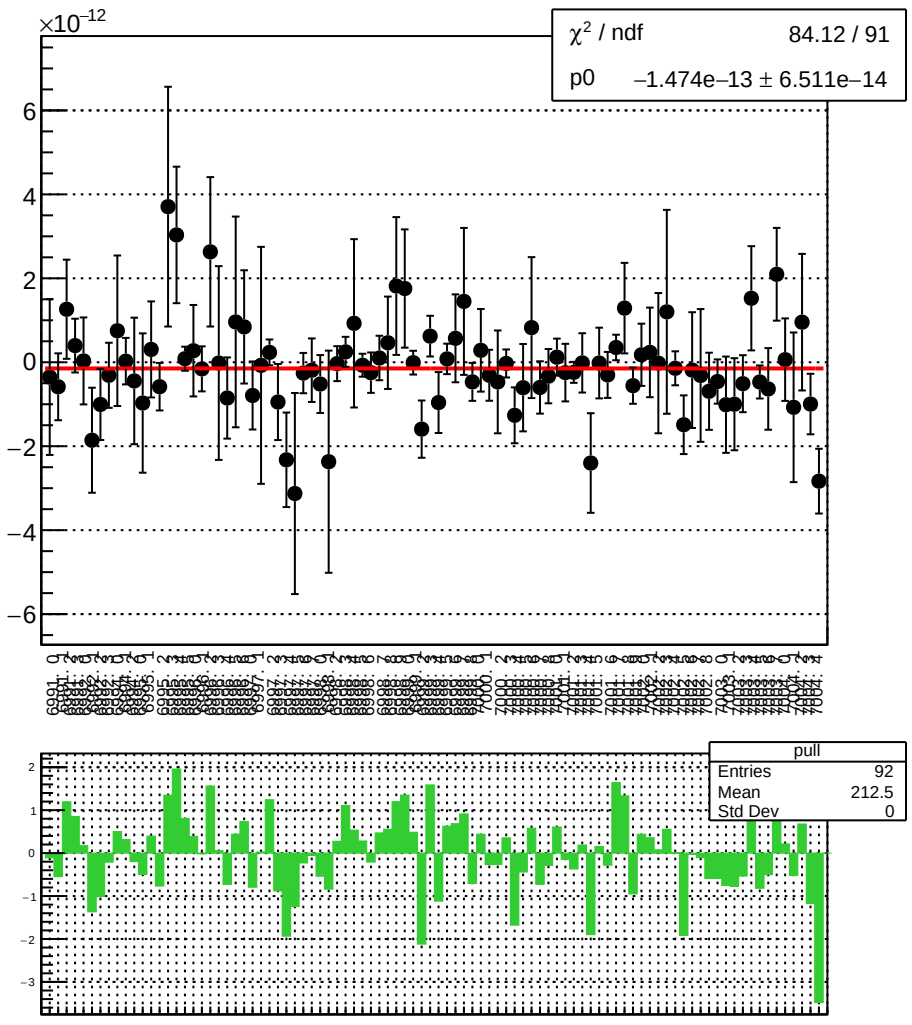

pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

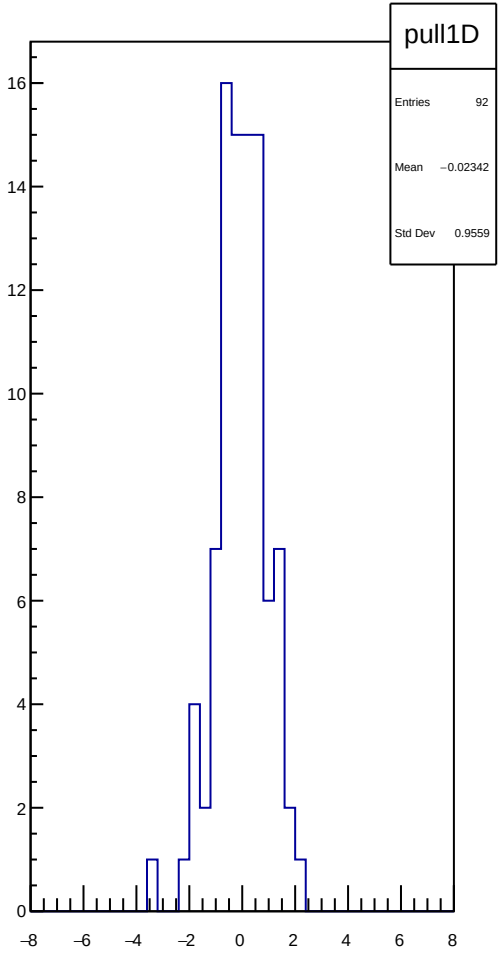

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

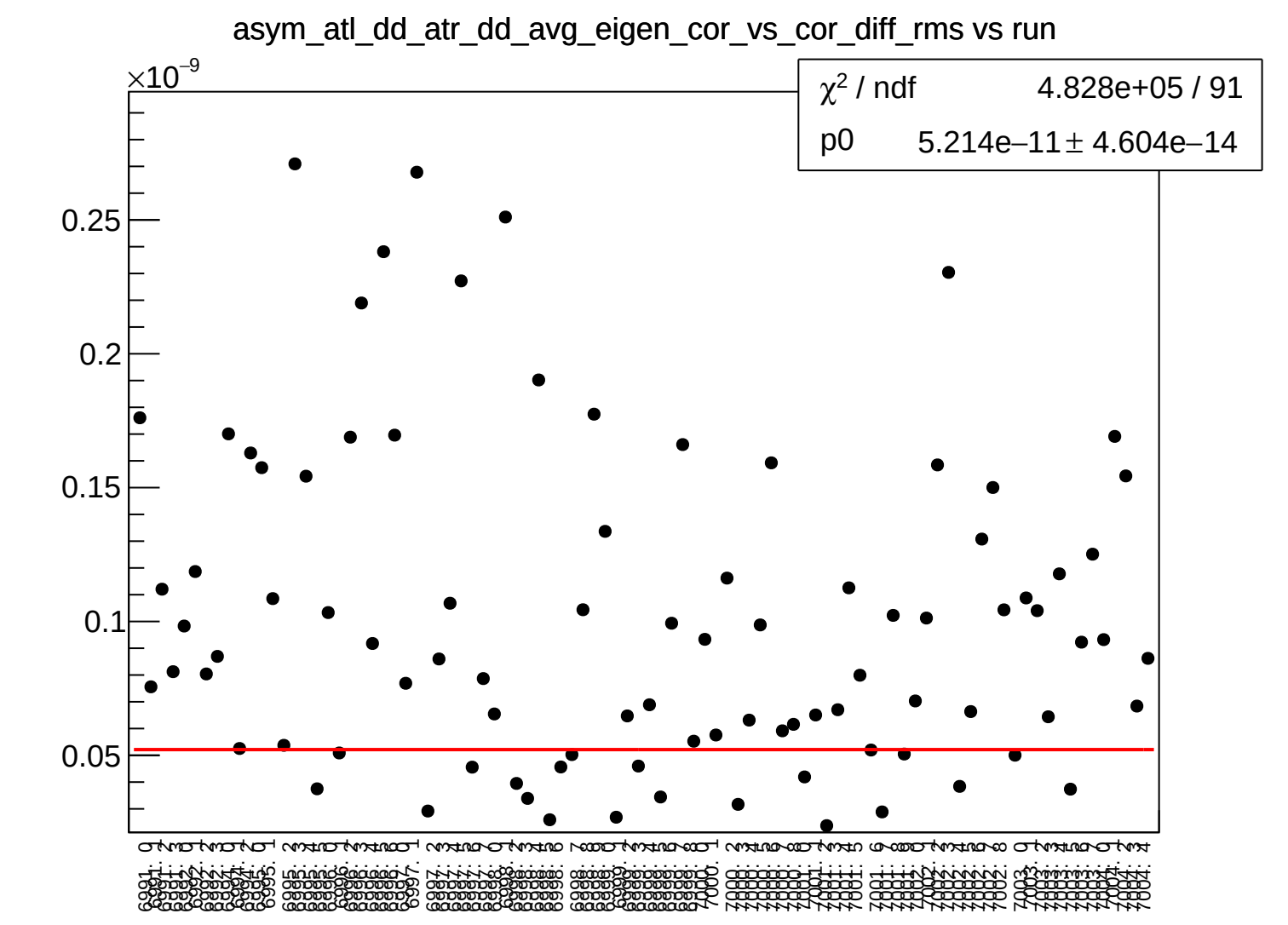

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0

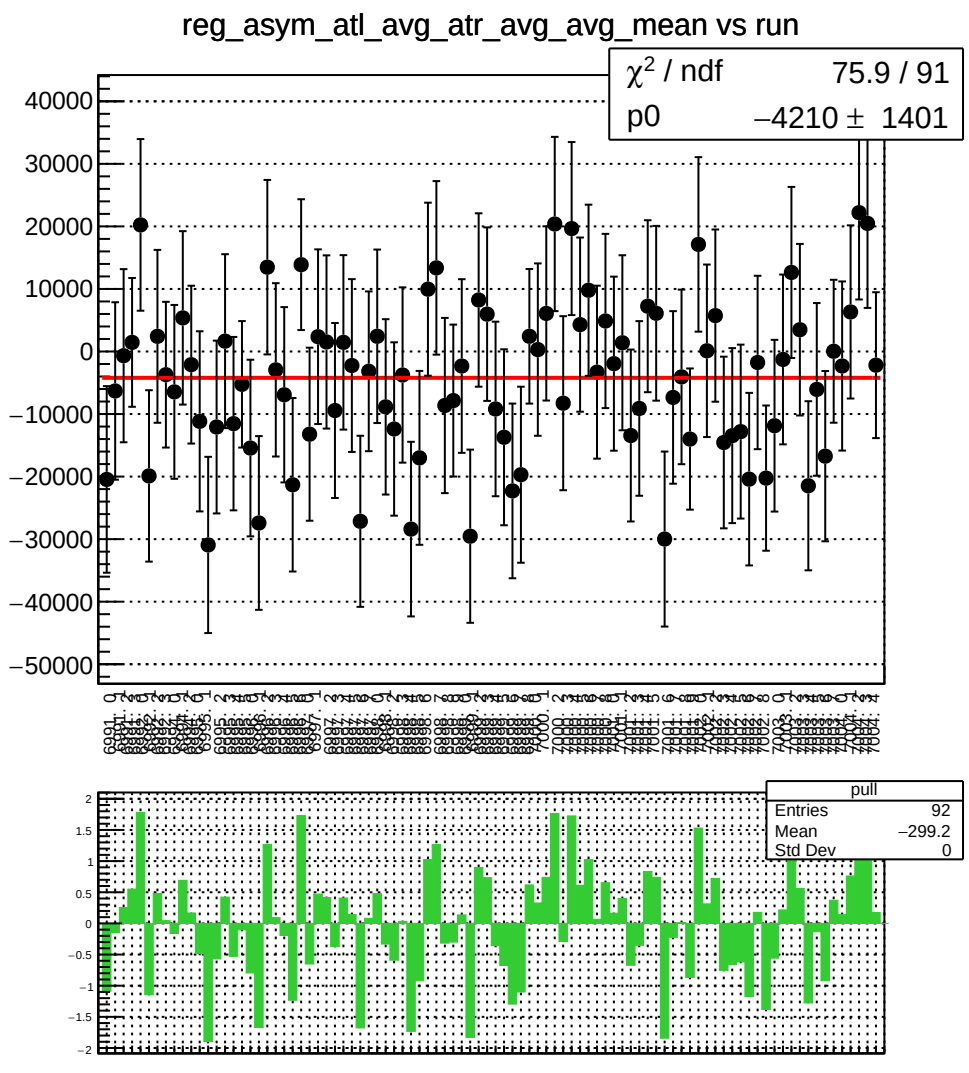

pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

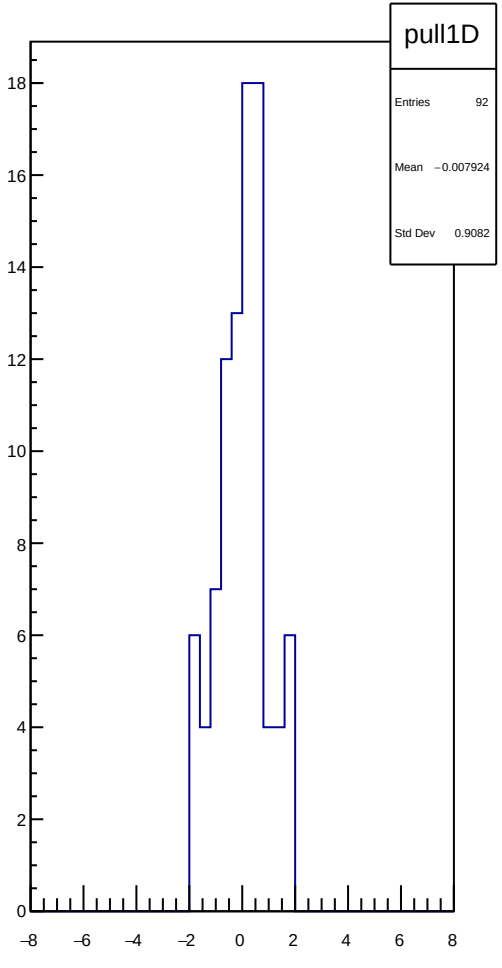

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

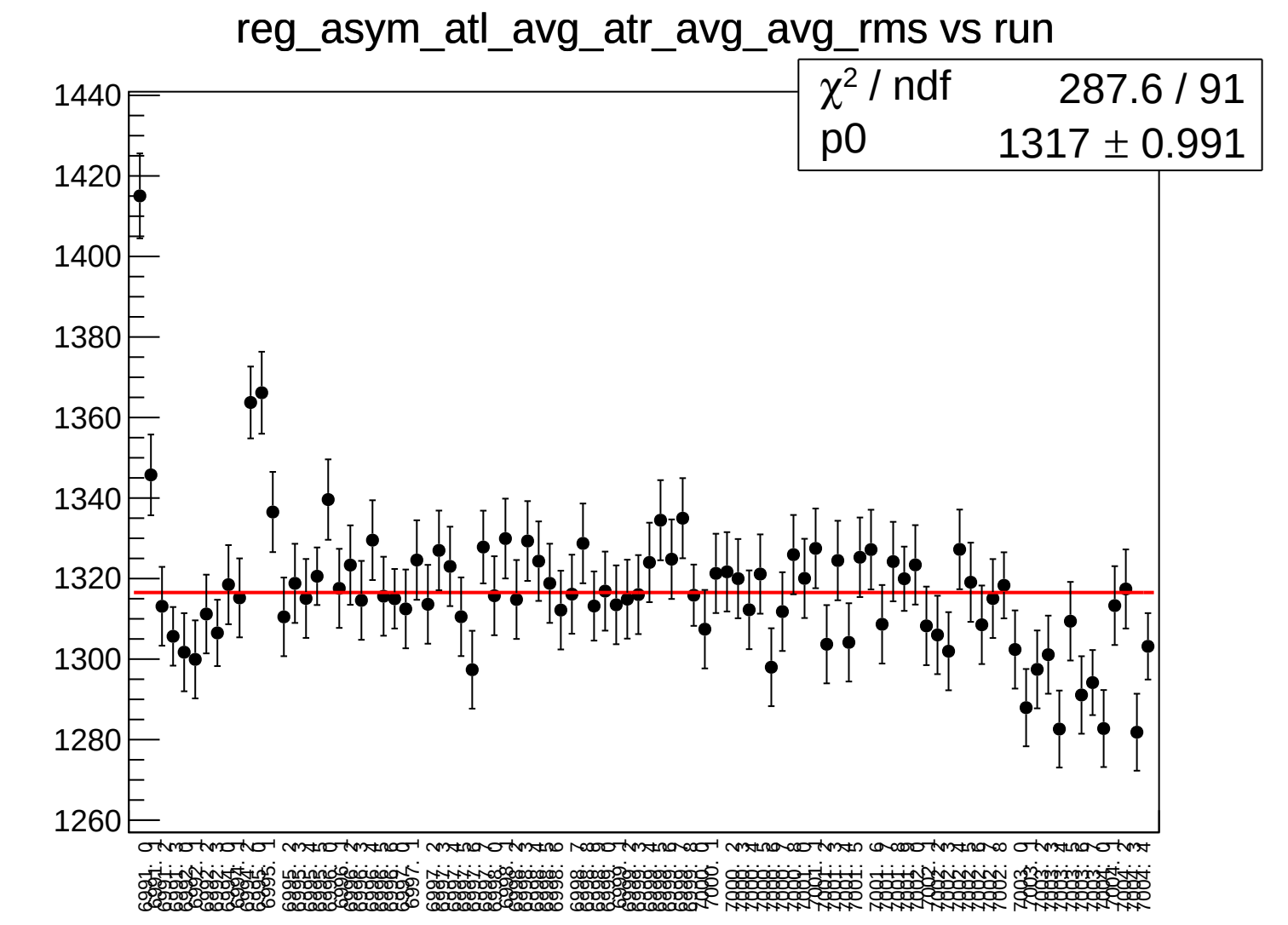

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.12 / 91
p0 −1.474e−13 ± 6.511e−14
pull
Entries 92
Mean 212.5
Std Dev 0

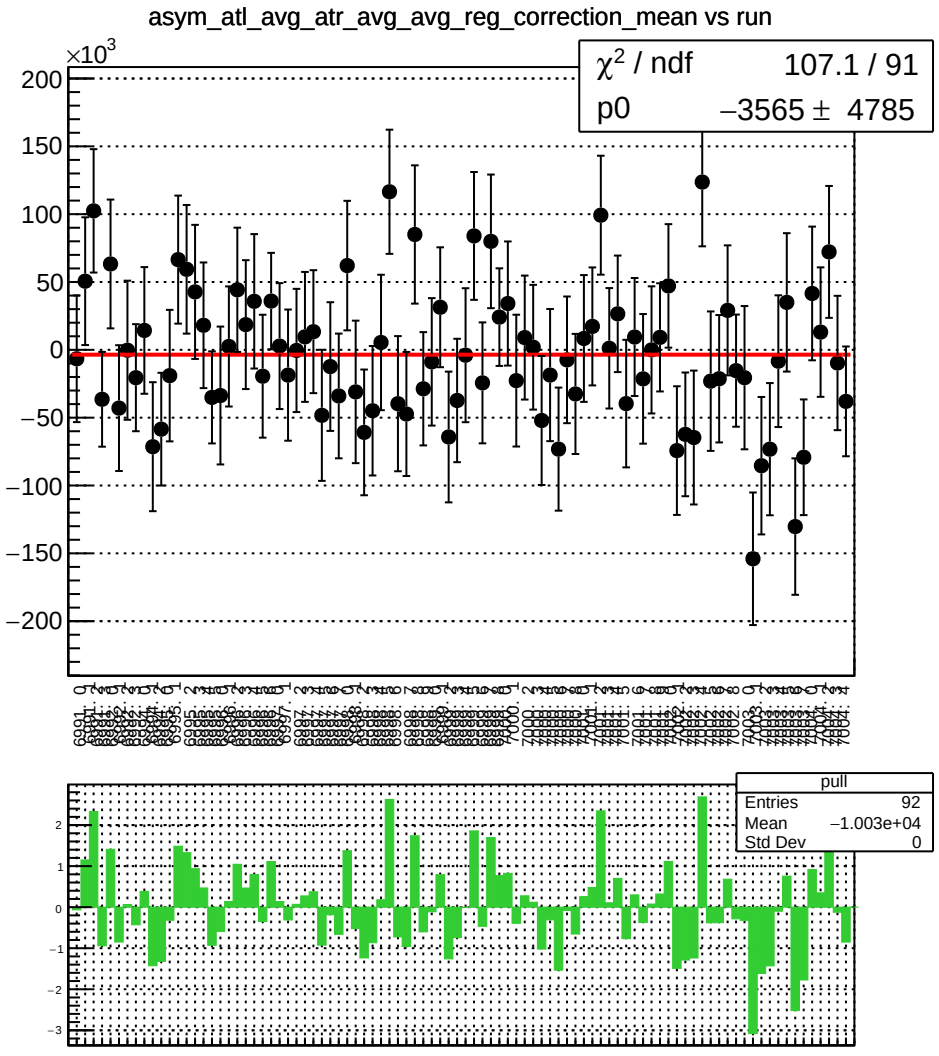

pull1D
Entries 92
Mean −0.02342
Std Dev 0.9559

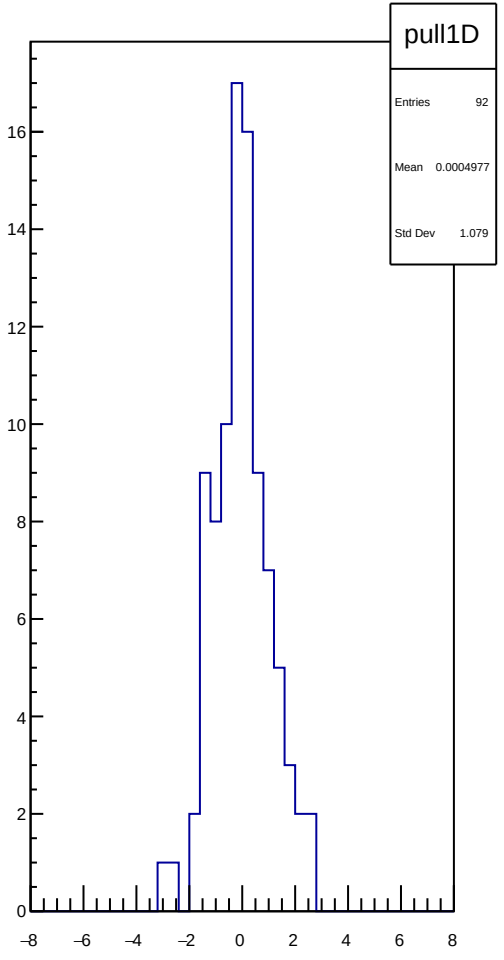

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.828e+05 / 91
p0 5.214e−11 ± 4.604e−14
0.25
0.2
0.15
0.1
0.05

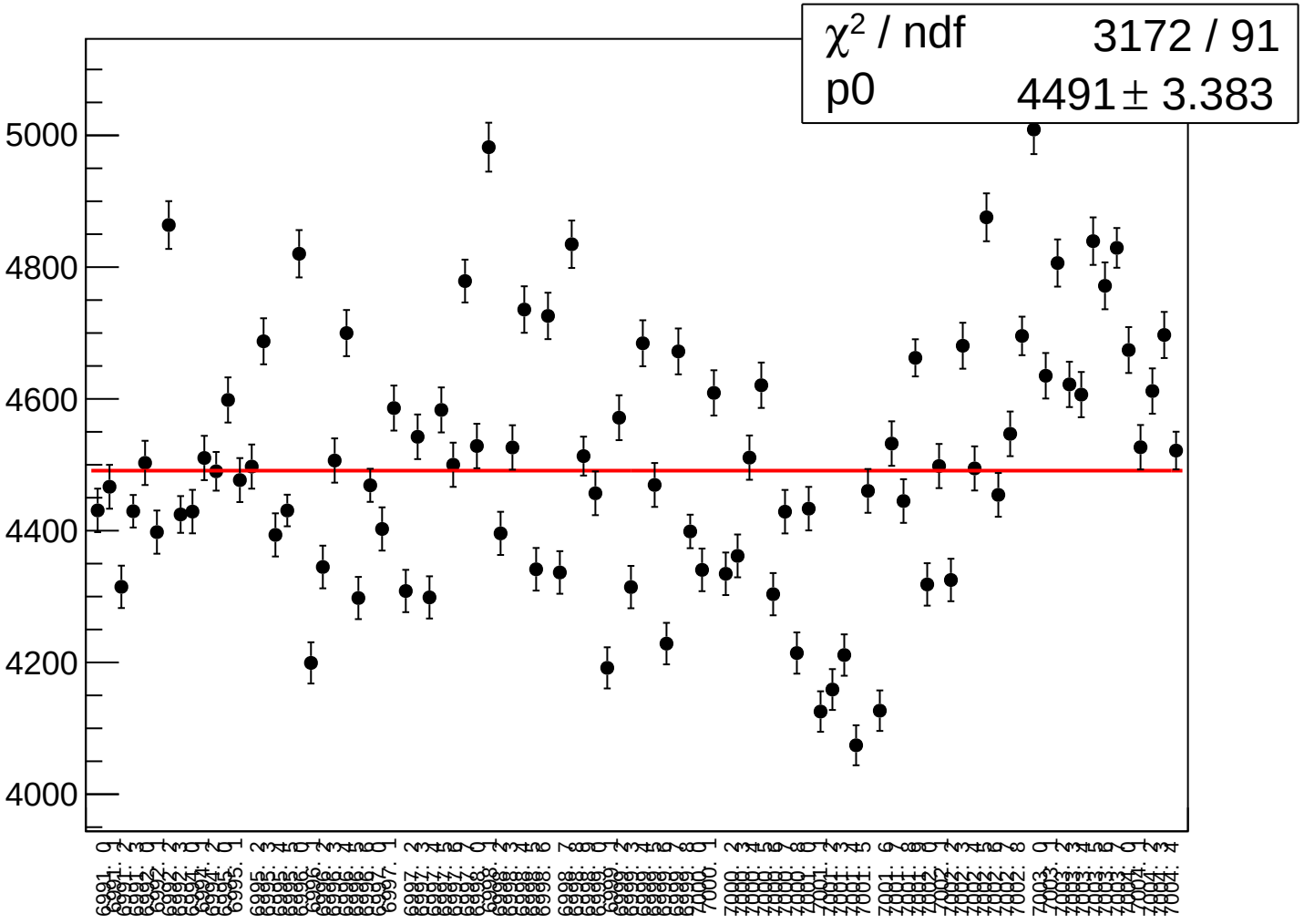

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 75.9 / 91
p0 −4210 ± 1401
pull
Entries 92
Mean −299.2
Std Dev 0

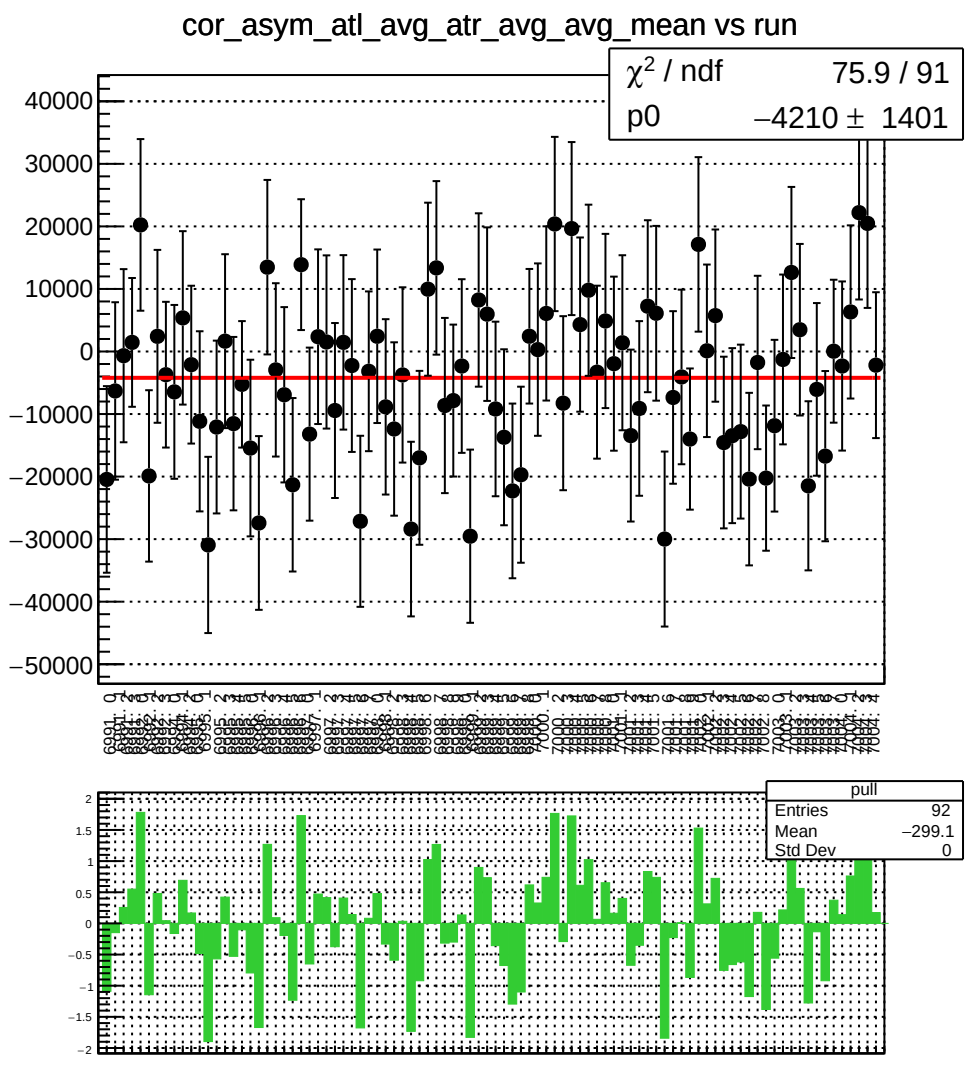

pull1D
Entries 92
Mean −0.007924
Std Dev 0.9082

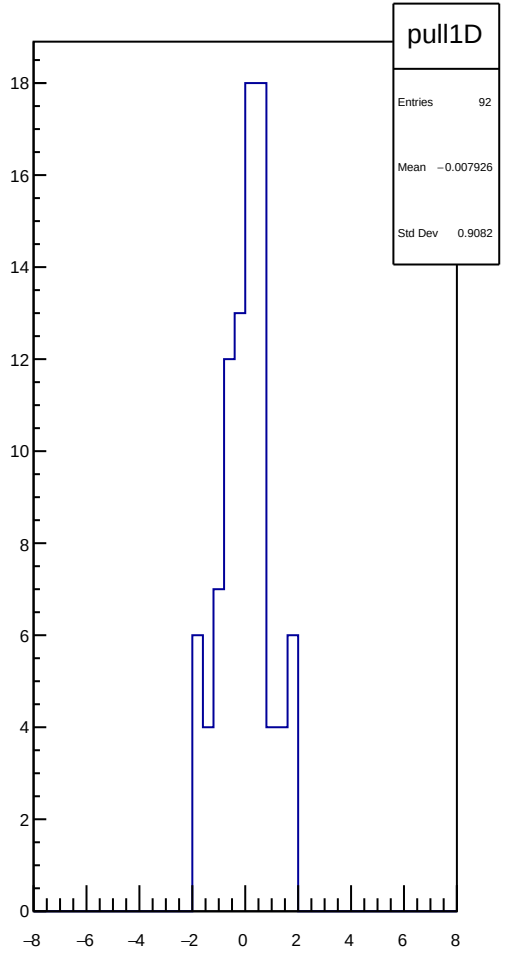

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 287.6 / 91
p0 1317 ± 0.991
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

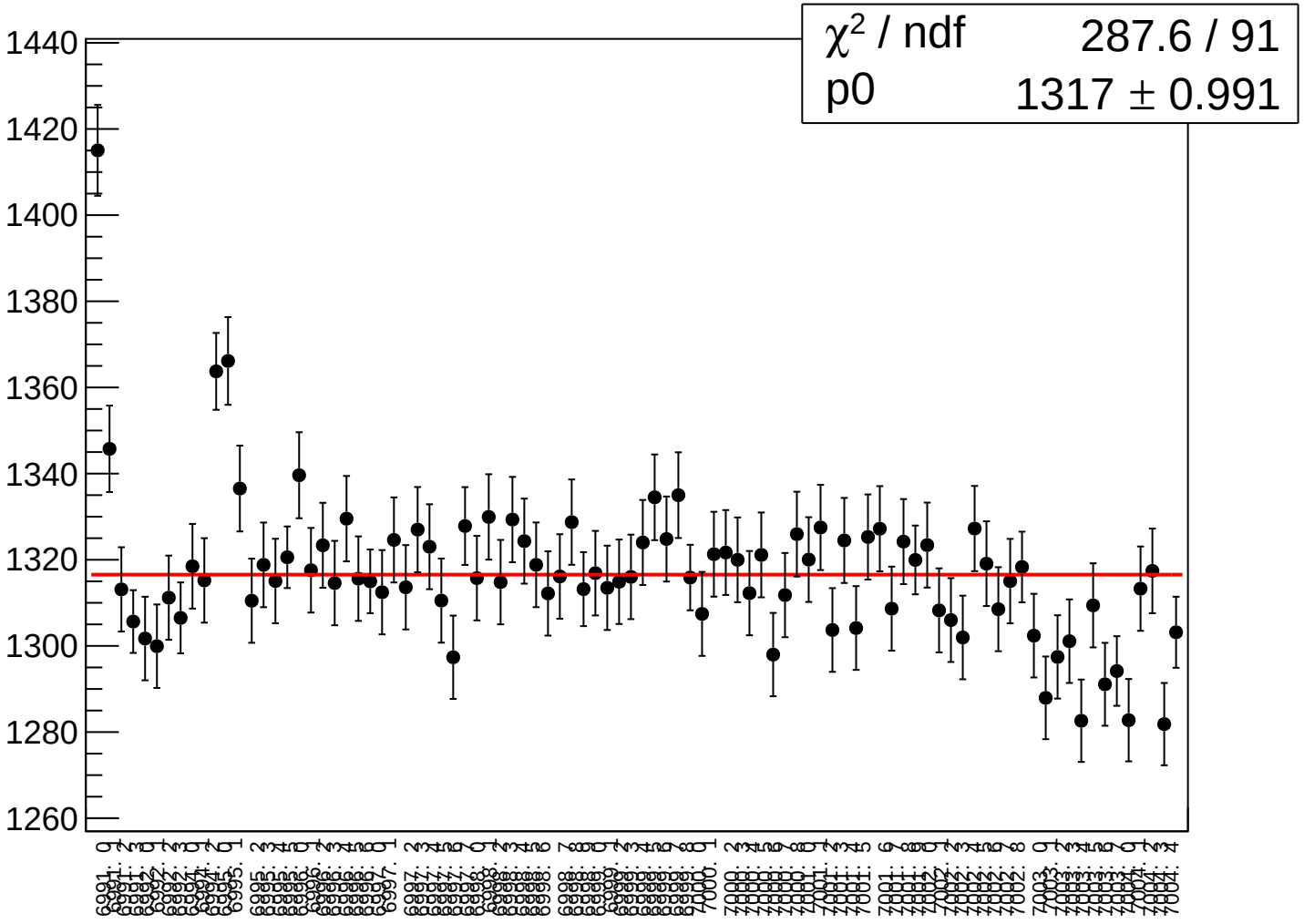

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 107.1 / 91
p0 −3565 ± 4785
pull
Entries 92
Mean −1.003e+04
Std Dev 0

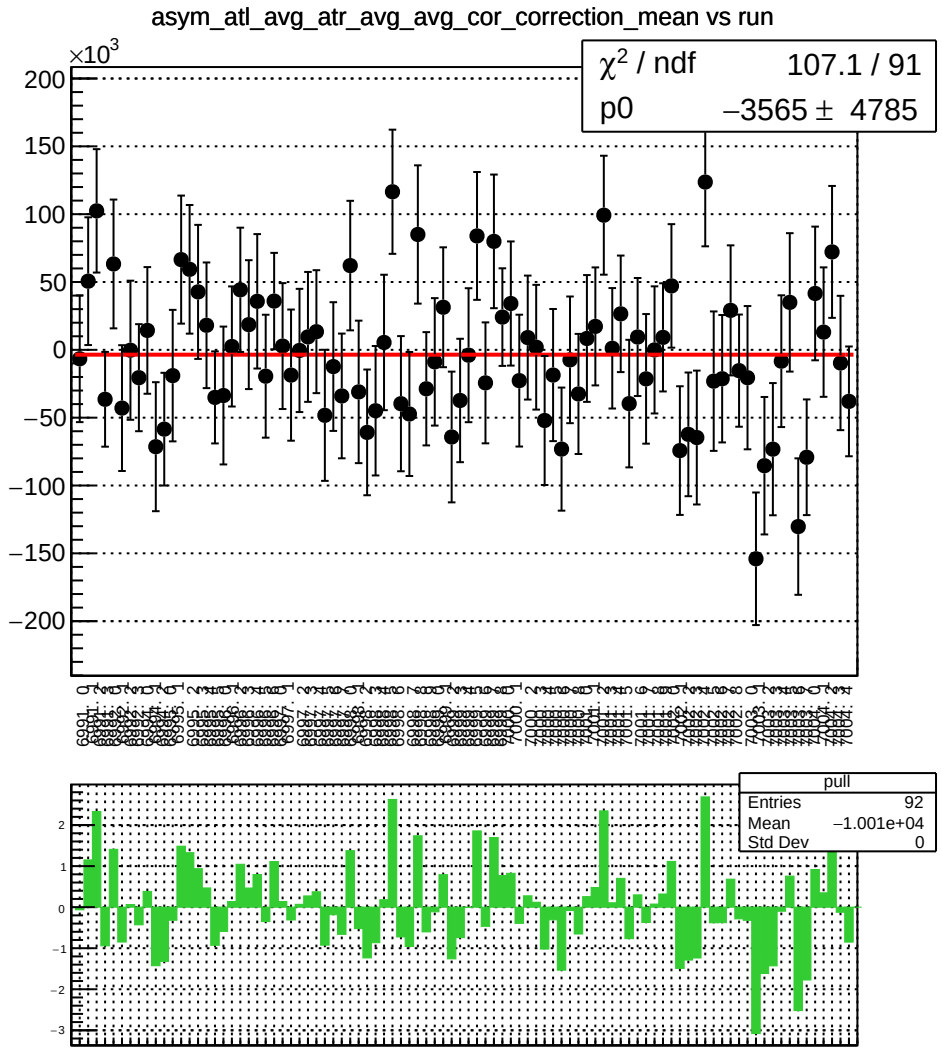

pull1D
Entries 92
Mean 0.0004977
Std Dev 1.079

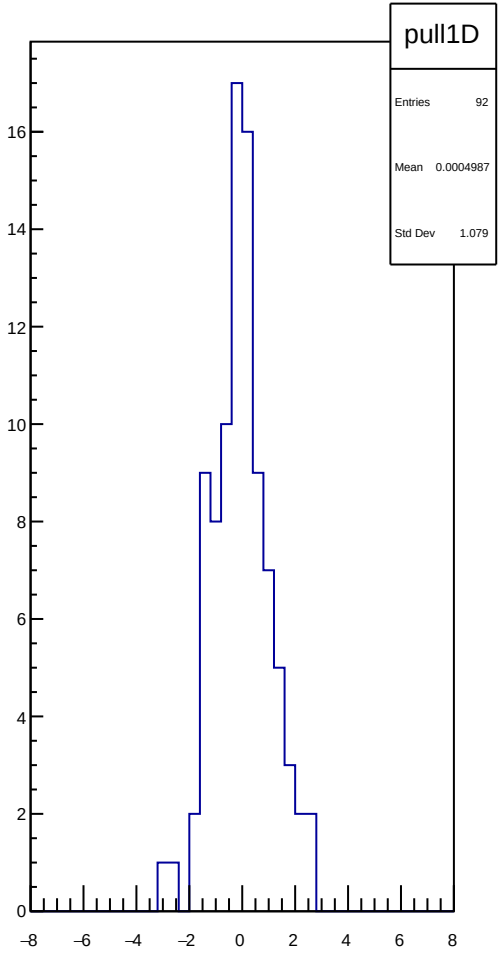

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 3172 / 91
p0 4491 ± 3.383
5000
4800
4600
4400
4200
4000

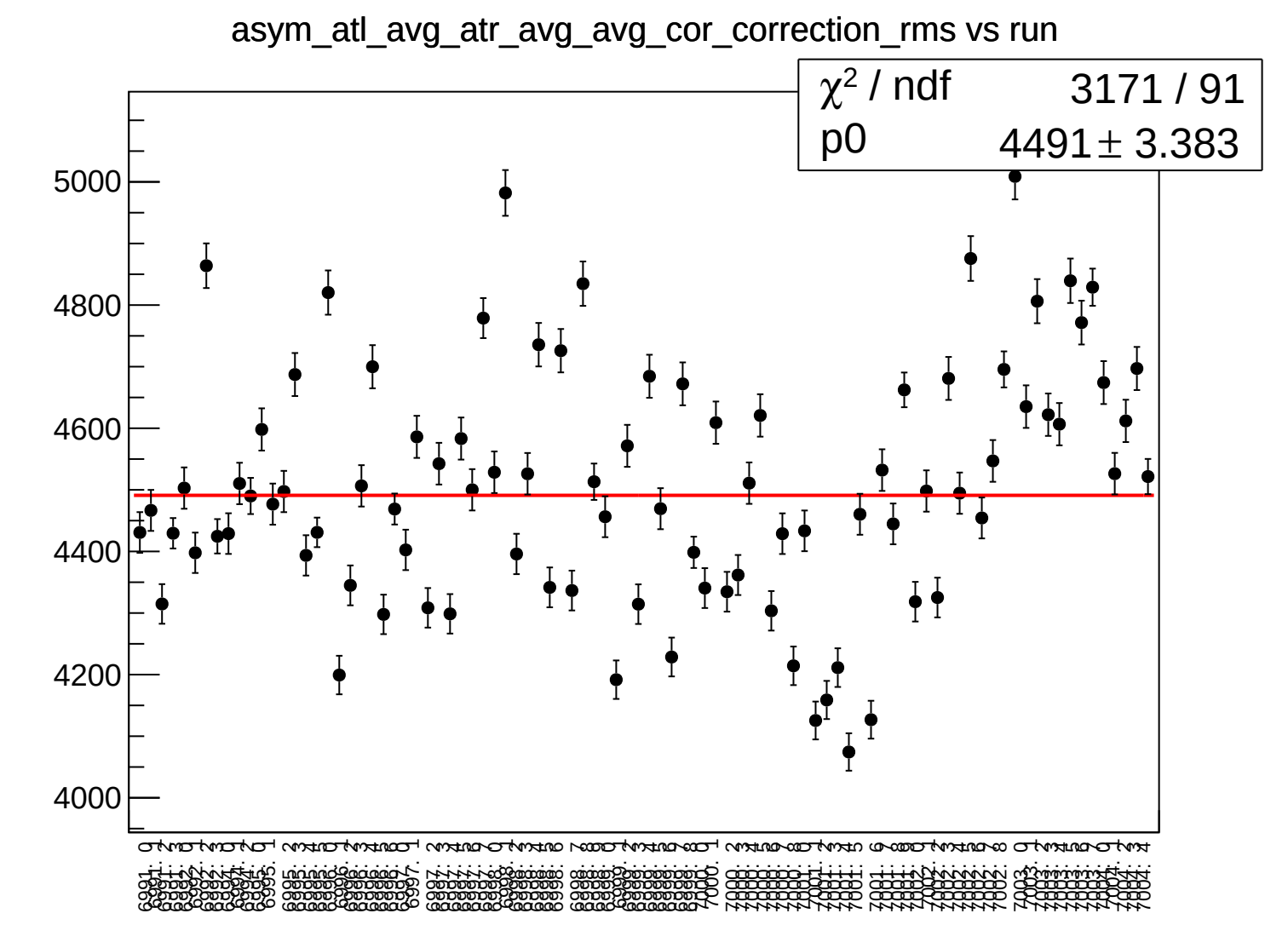

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 75.9 / 91
p0 −4210 ± 1401
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 92
Mean −299.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

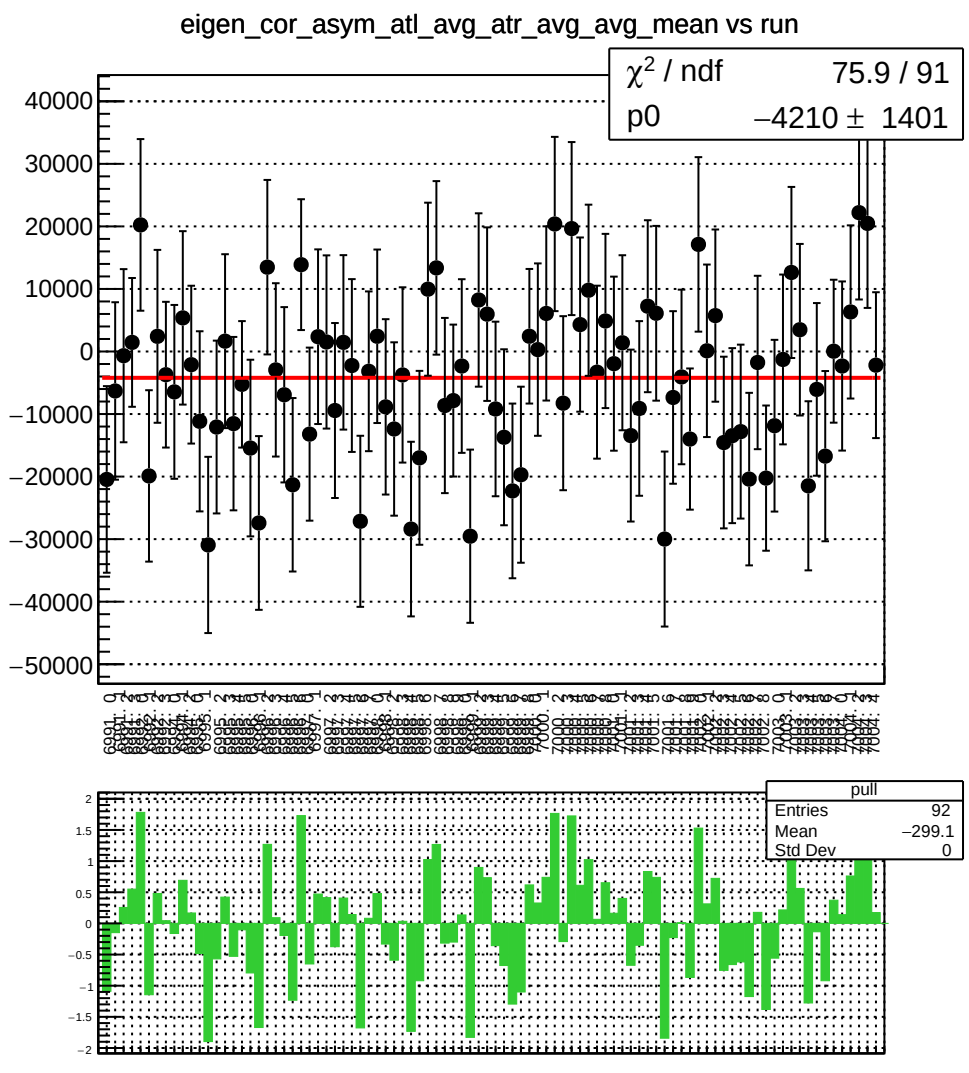

pull1D
Entries 92
Mean −0.007926
Std Dev 0.9082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

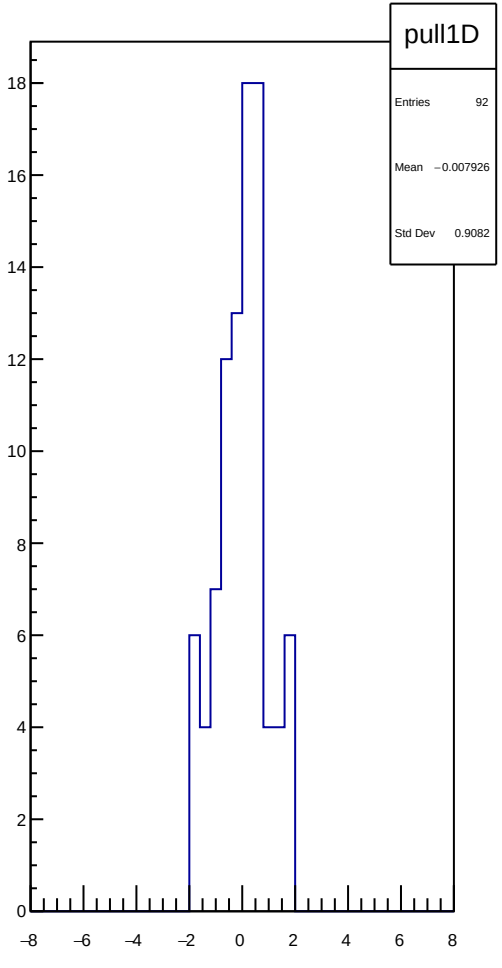

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 287.6 / 91
p0 1317 ± 0.991
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

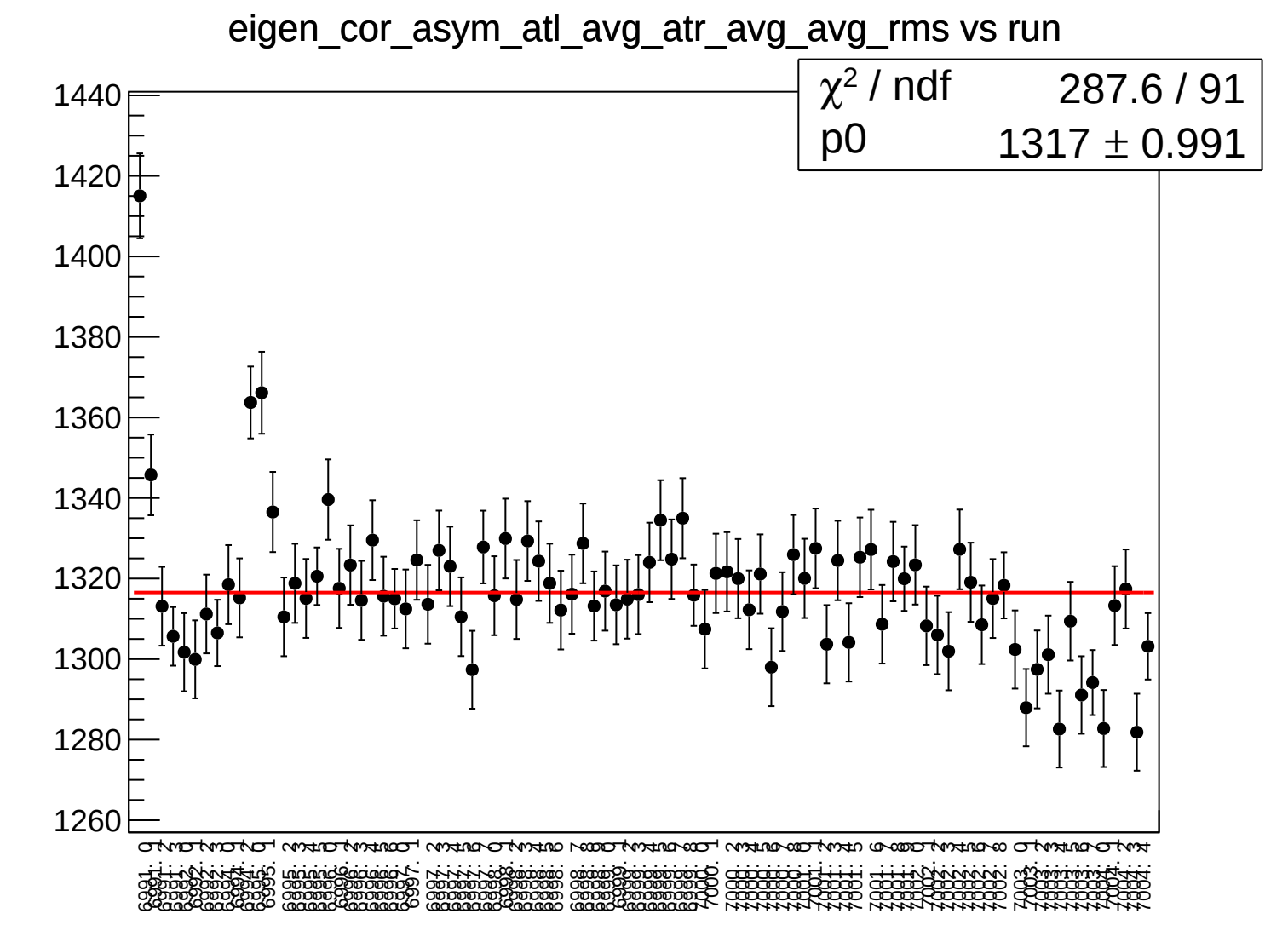

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 107.1 / 91
p0 −3565 ± 4785
pull
Entries 92
Mean −1.001e+04
Std Dev 0

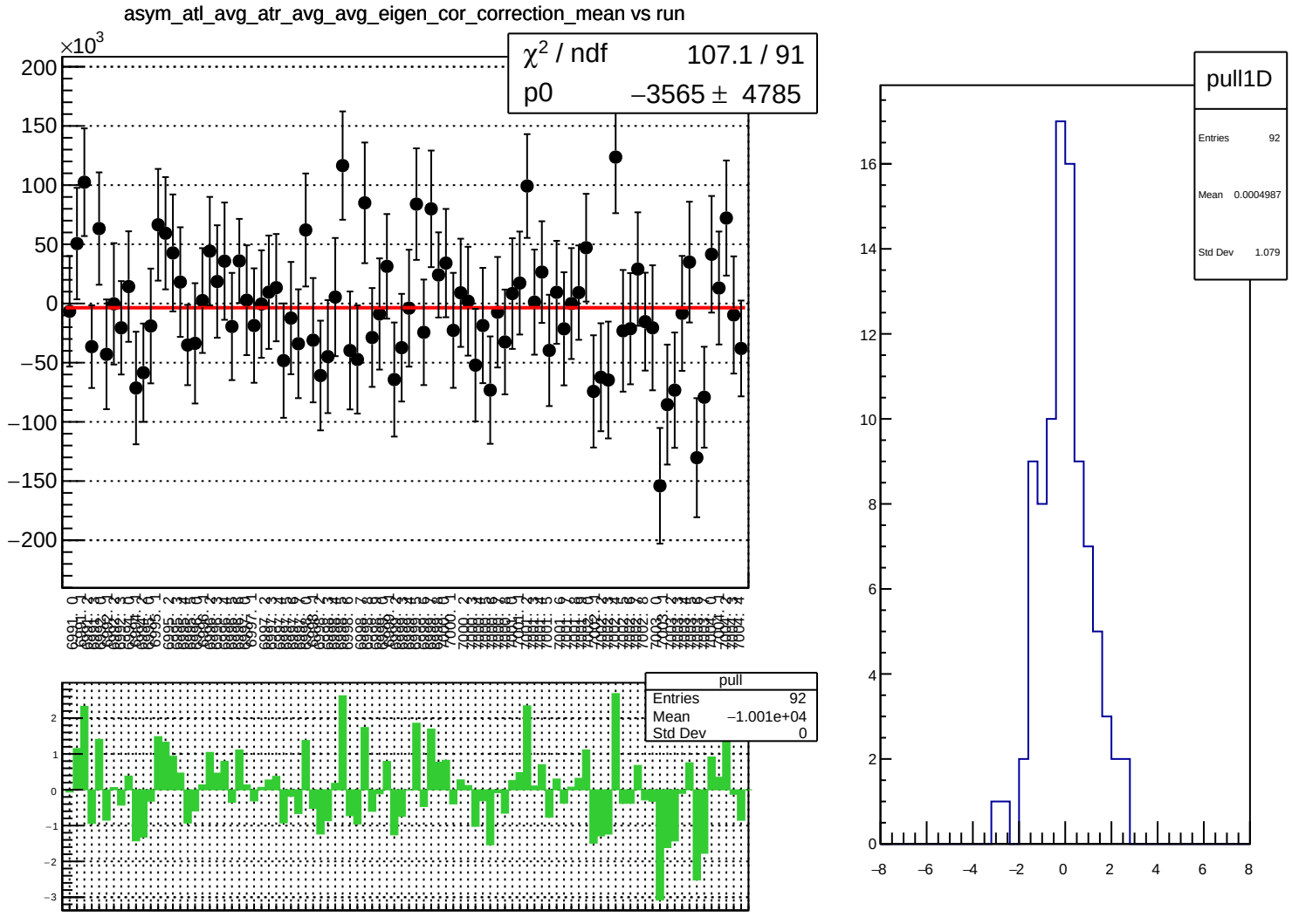

pull1D
Entries 92
Mean 0.0004987
Std Dev 1.079

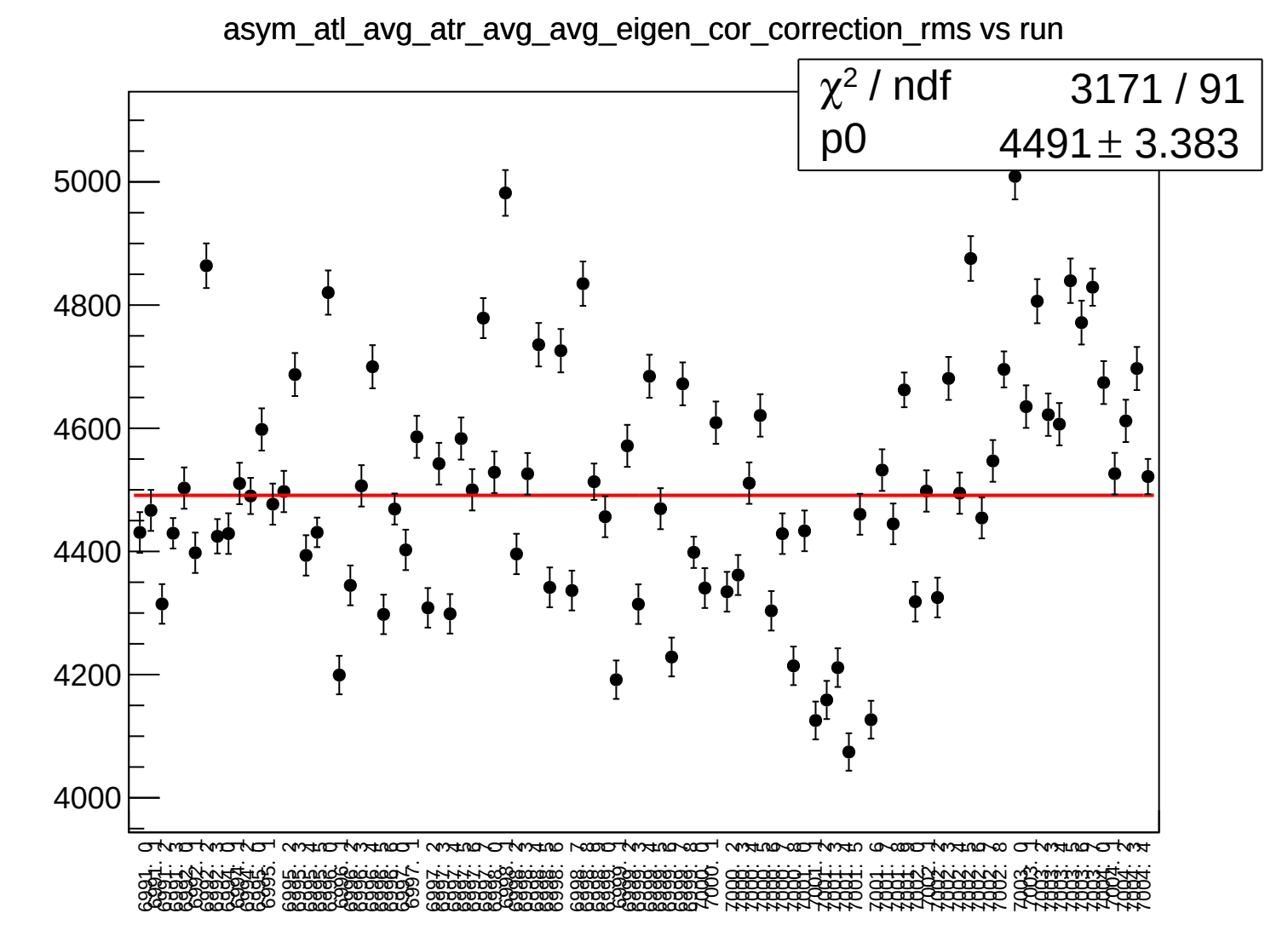

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 3171 / 91
p0 4491 ± 3.383
5000
4800
4600
4400
4200
4000

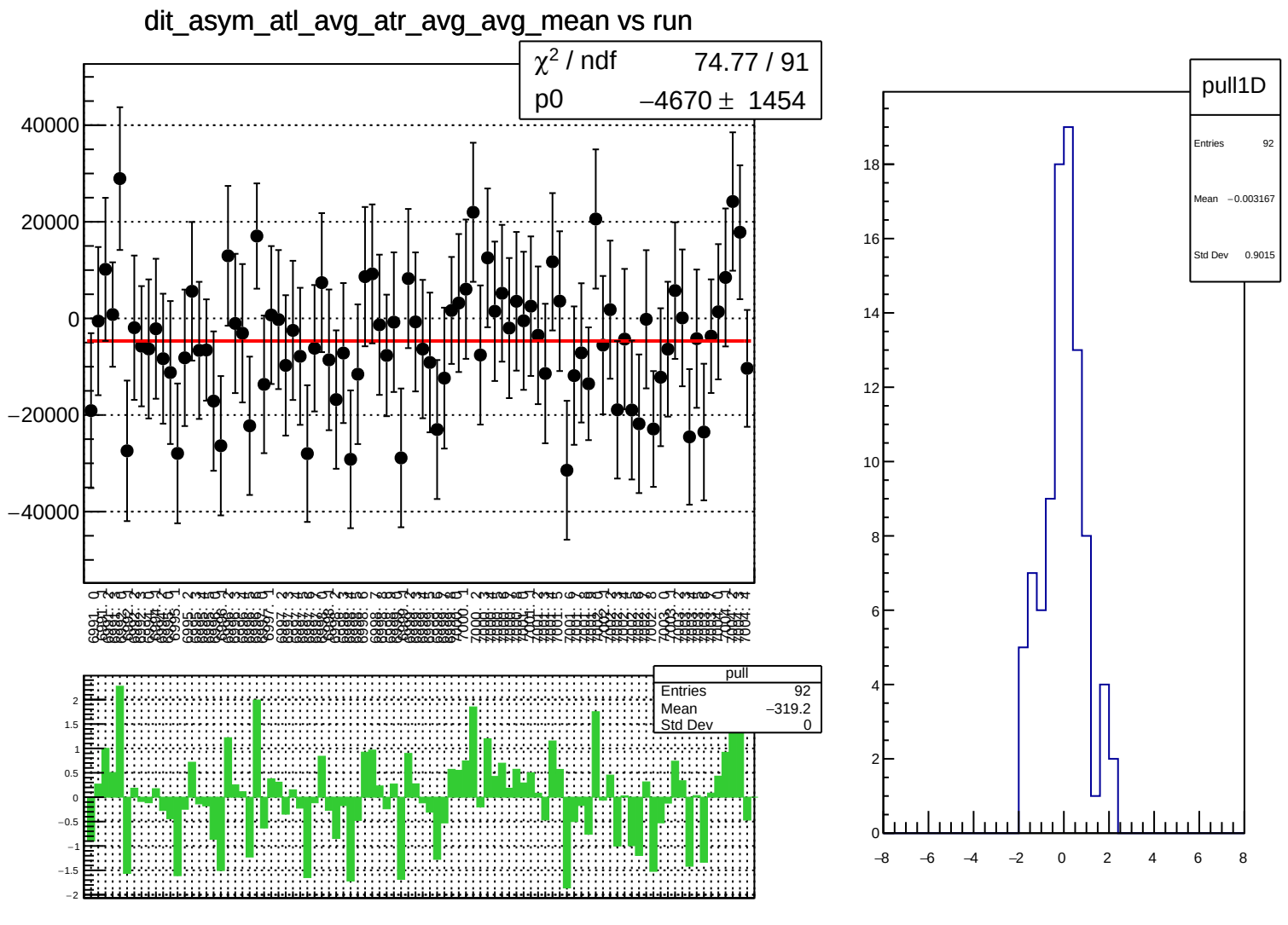

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 75.9 / 91
p0 −4210 ± 1401
pull
Entries 92
Mean −299.1
Std Dev 0

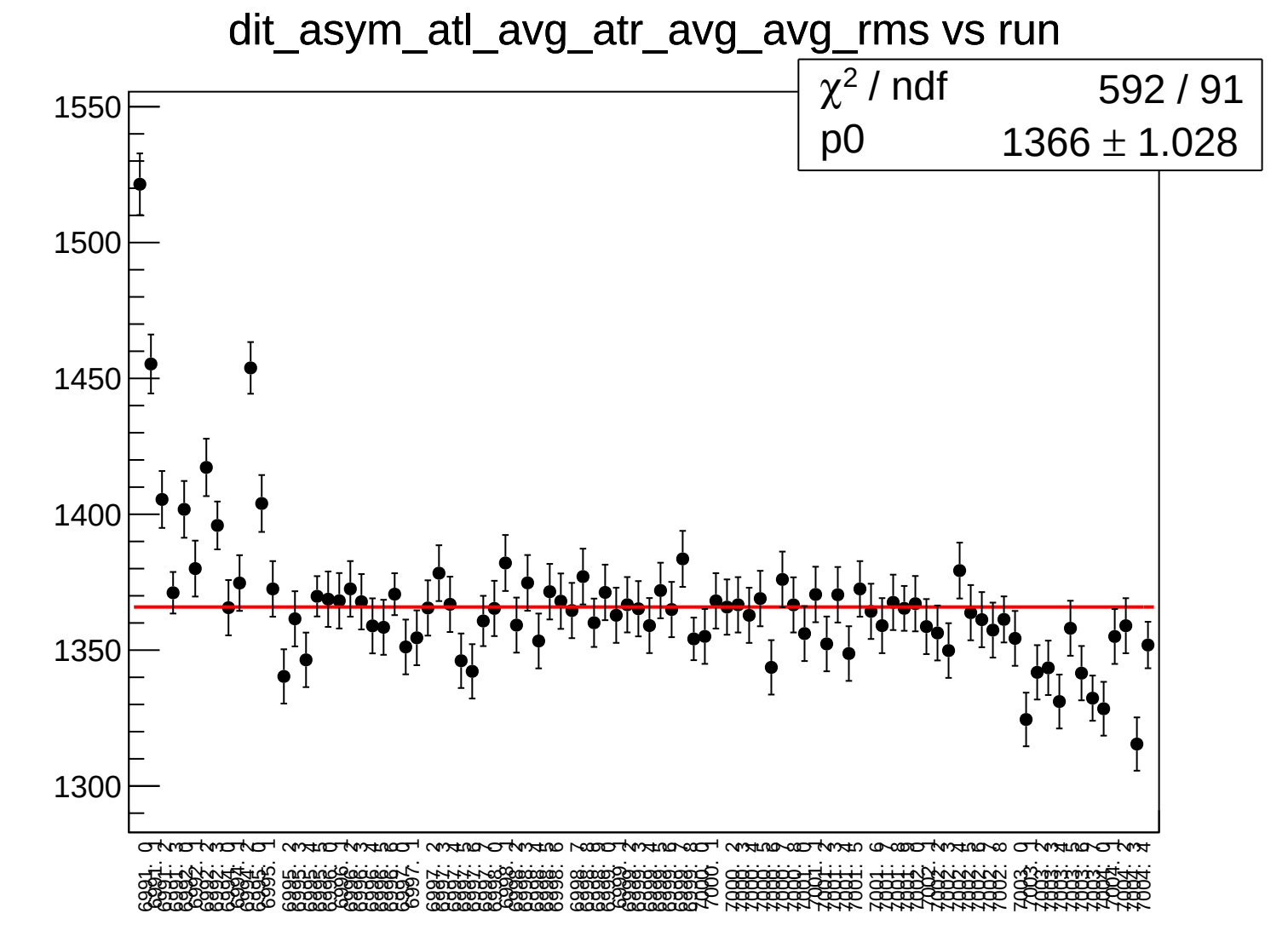

pull1D
Entries 92
Mean −0.007926
Std Dev 0.9082

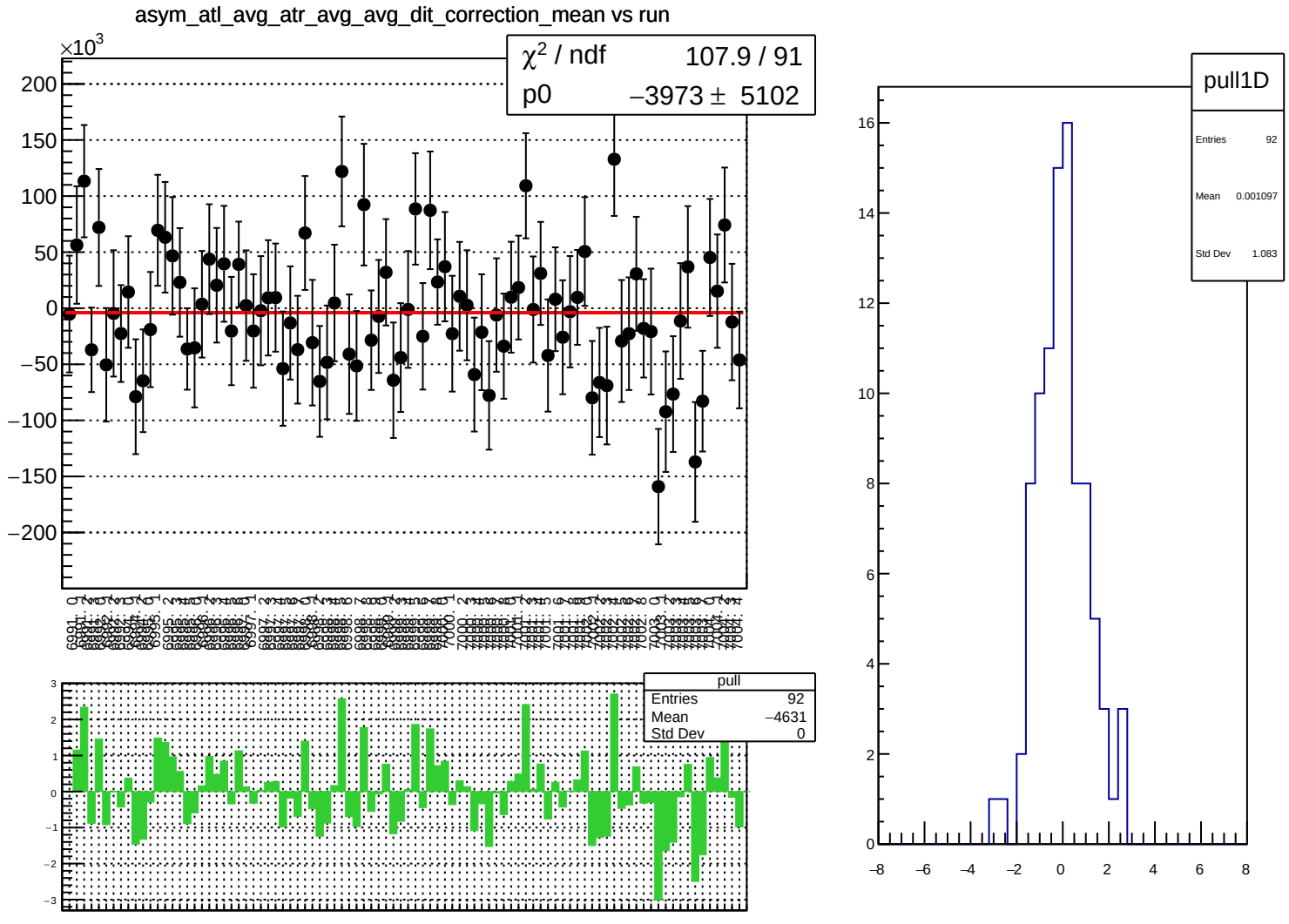

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 287.6 / 91
p0 1317 ± 0.991
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

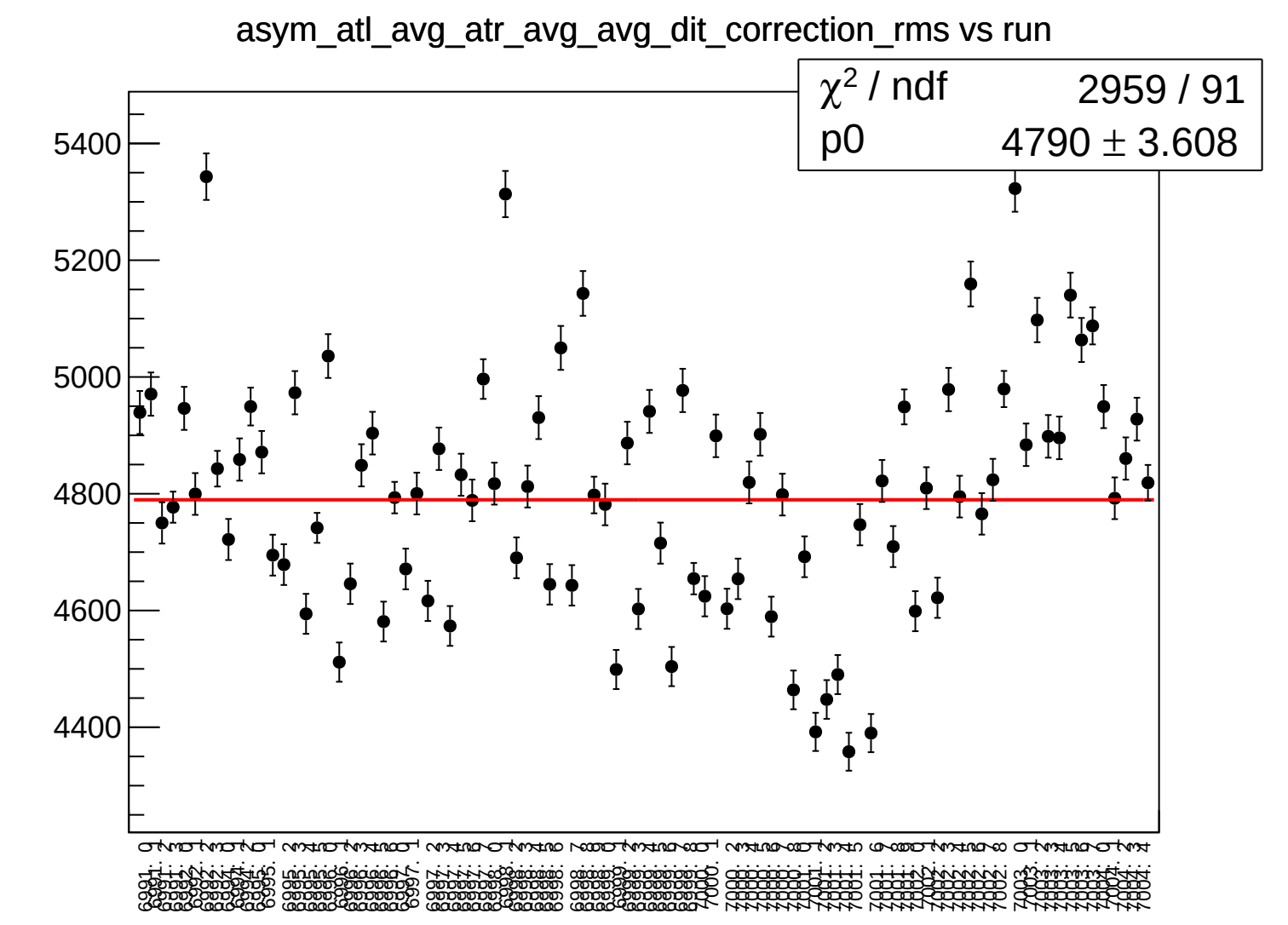

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.1 / 91
p0 −3565 ± 4785
pull
Entries 92
Mean −1.001e+04
Std Dev 0
pull1D
Entries 92
Mean 0.0004987
Std Dev 1.079

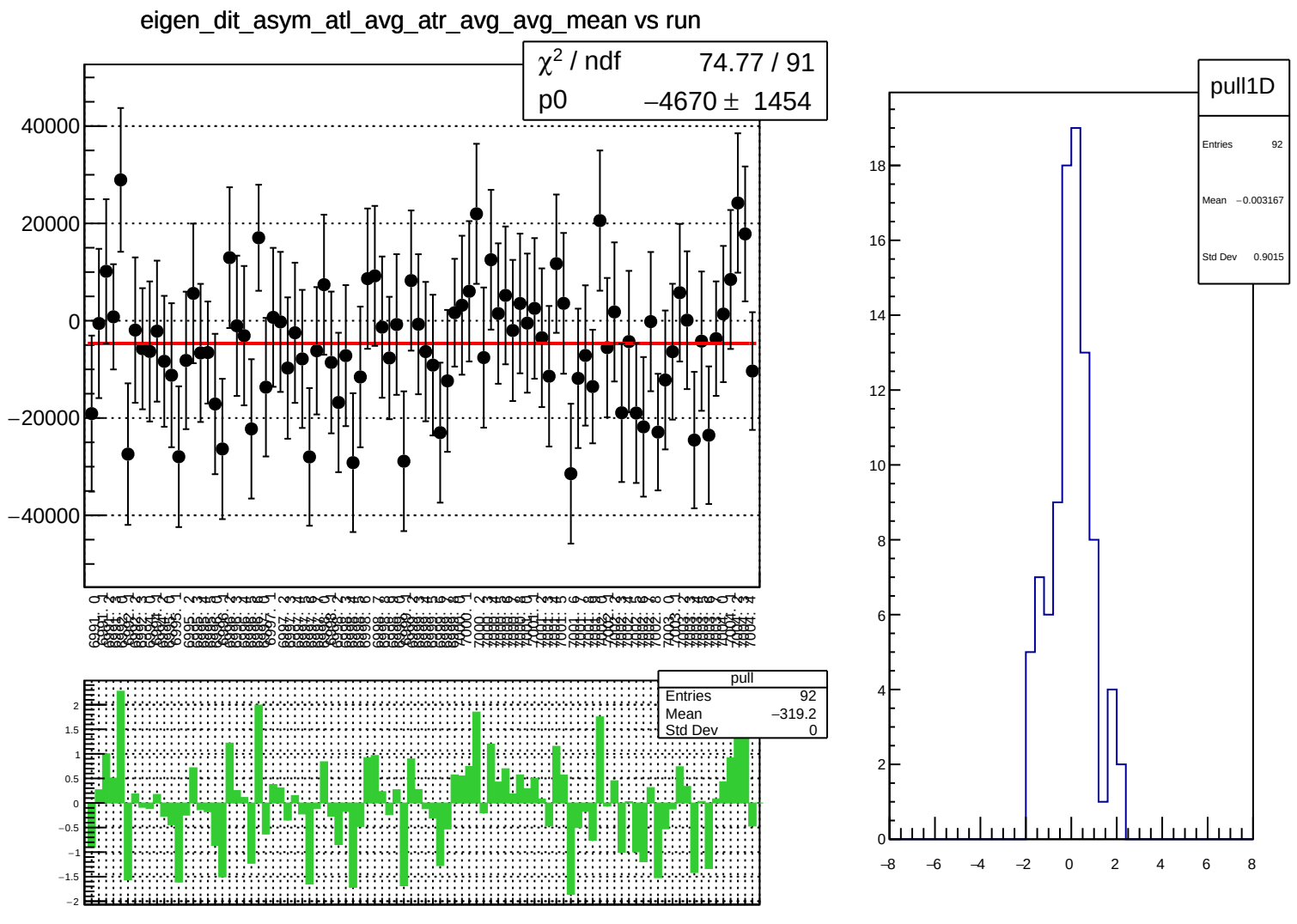

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3171 / 91
p0 4491 ± 3.383
5000
4800
4600
4400
4200
4000

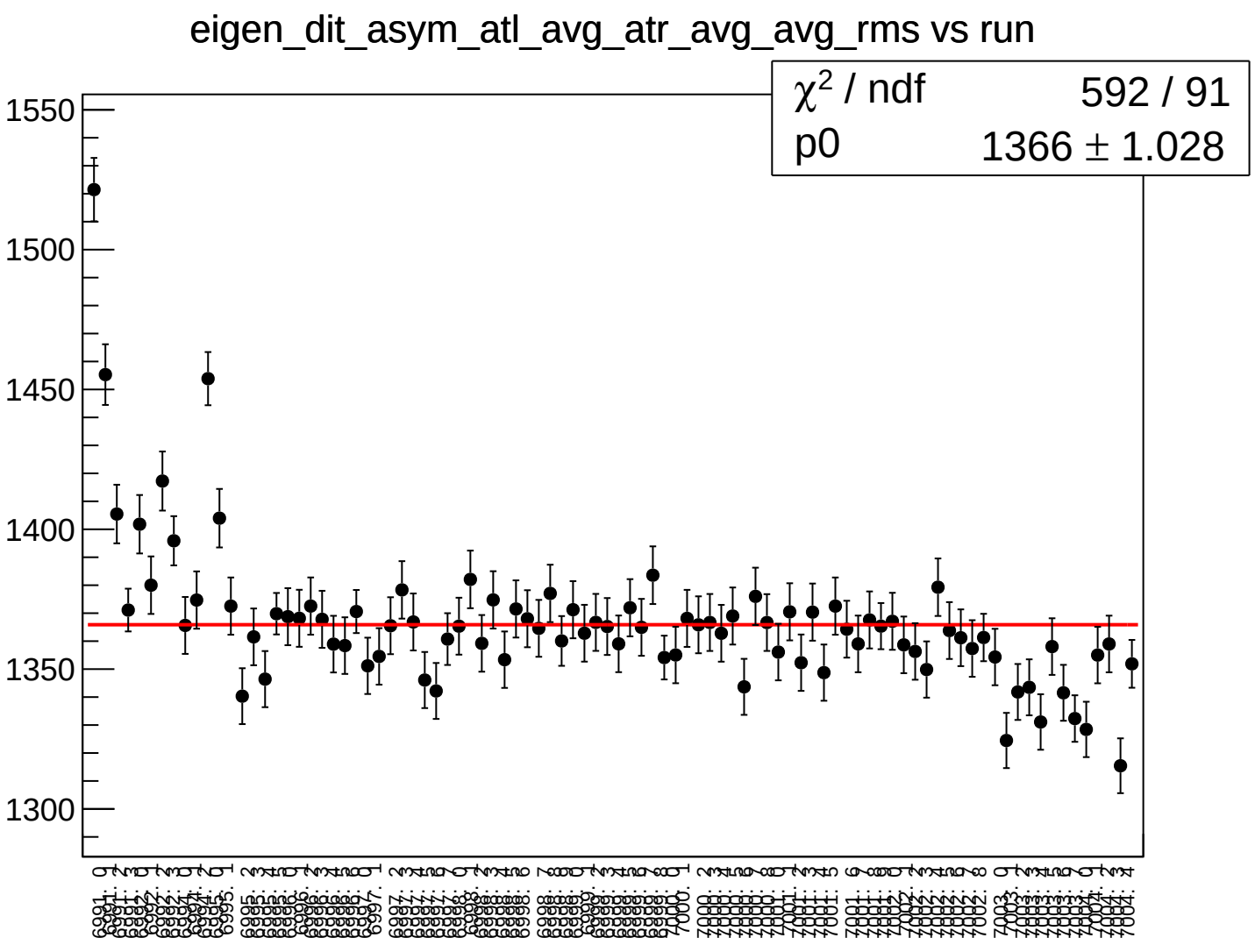

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.77 / 91
p0 −4670 ± 1454
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −319.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.003167
Std Dev 0.9015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

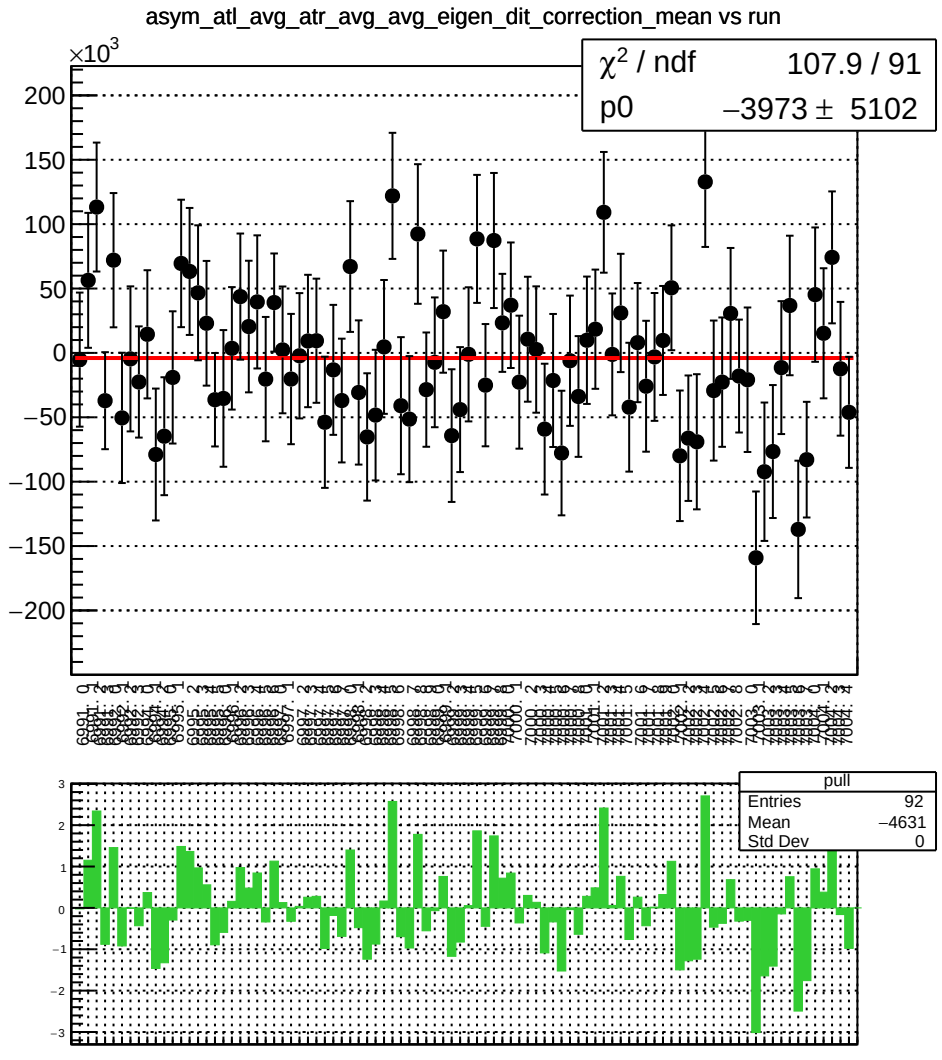

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 592 / 91
p0 1366 ± 1.028
1550
1500
1450
1400
1350
1300

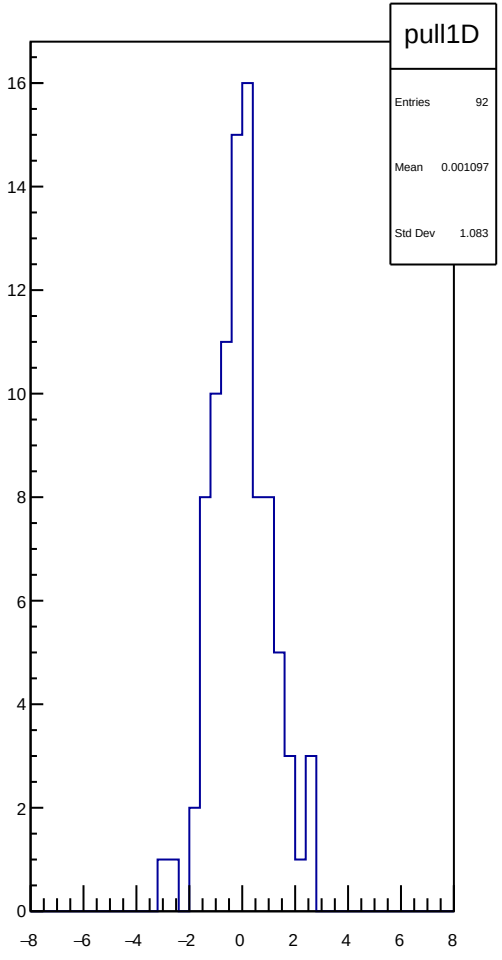

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 91
p0 −3973 ± 5102
pull
Entries 92
Mean −4631
Std Dev 0
pull1D
Entries 92
Mean 0.001097
Std Dev 1.083

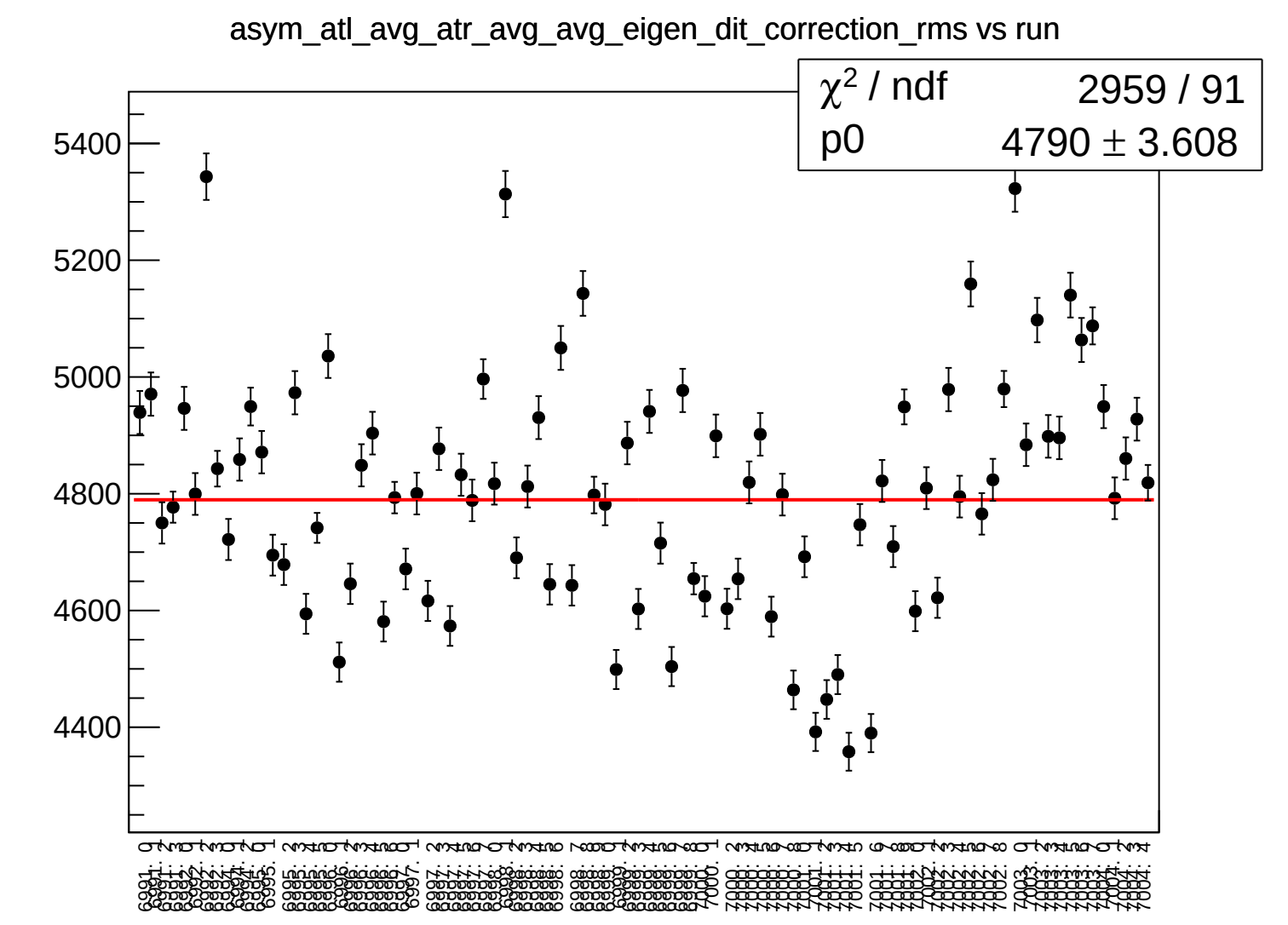

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2959 / 91
p0 4790 ± 3.608
5400
5200
5000
4800
4600
4400

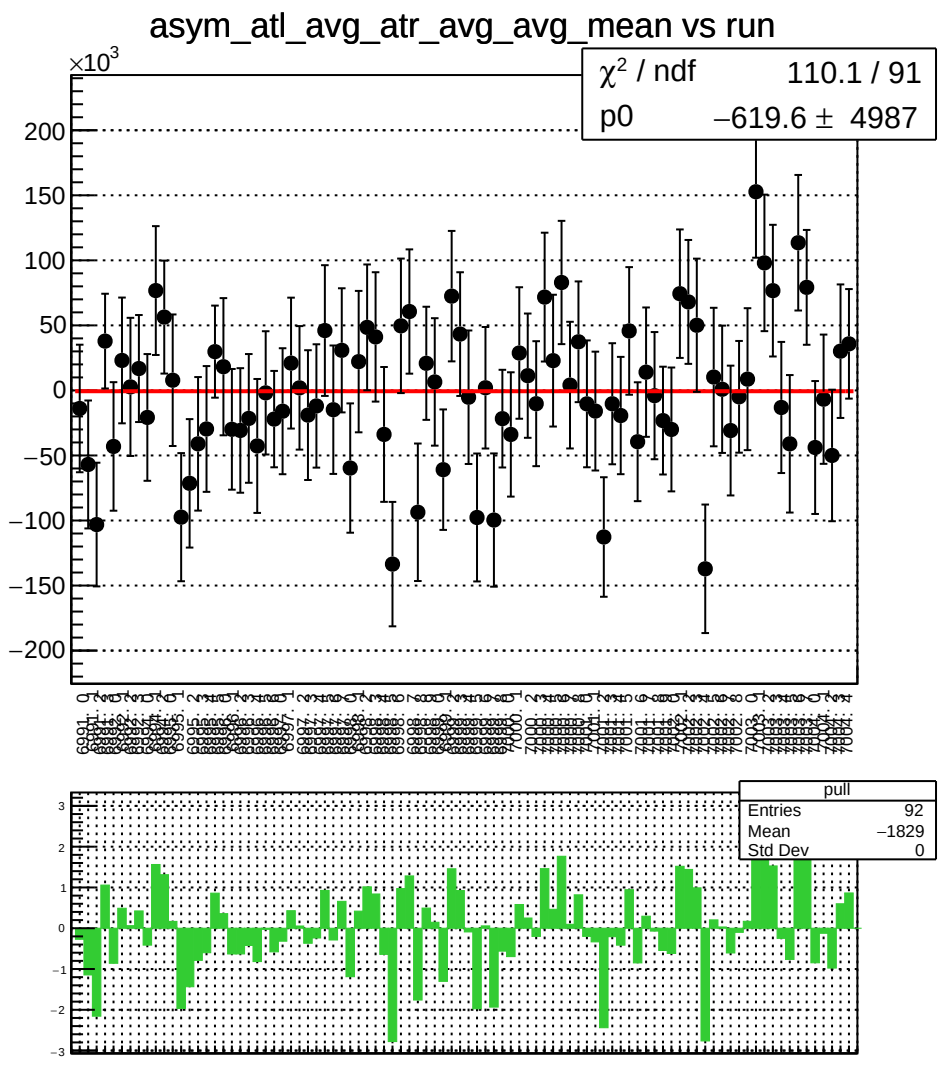

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 74.77 / 91
p0 −4670 ± 1454
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −319.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.003167
Std Dev 0.9015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

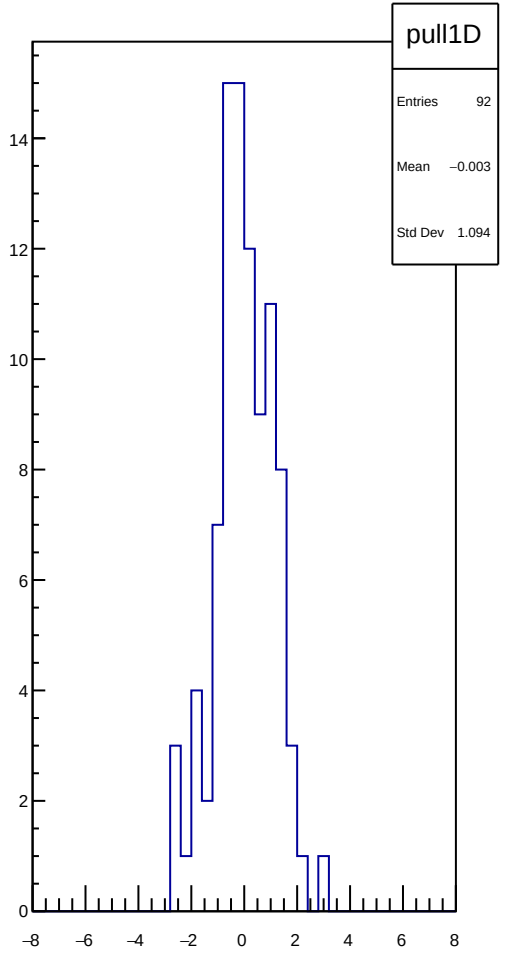

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 592 / 91
p0 1366 ± 1.028
1550
1500
1450
1400
1350
1300

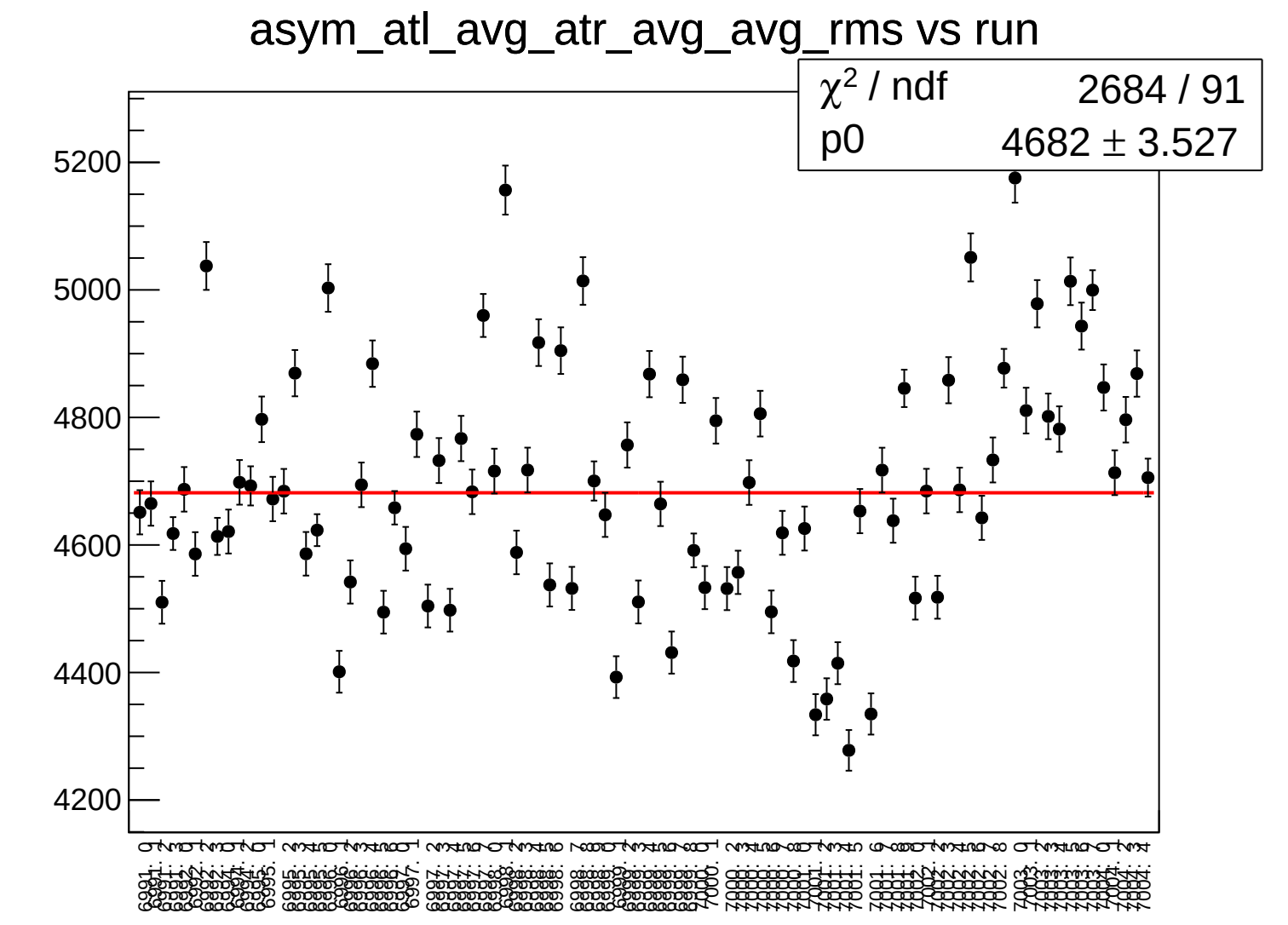

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 91
p0 −3973 ± 5102
pull
Entries 92
Mean −4631
Std Dev 0

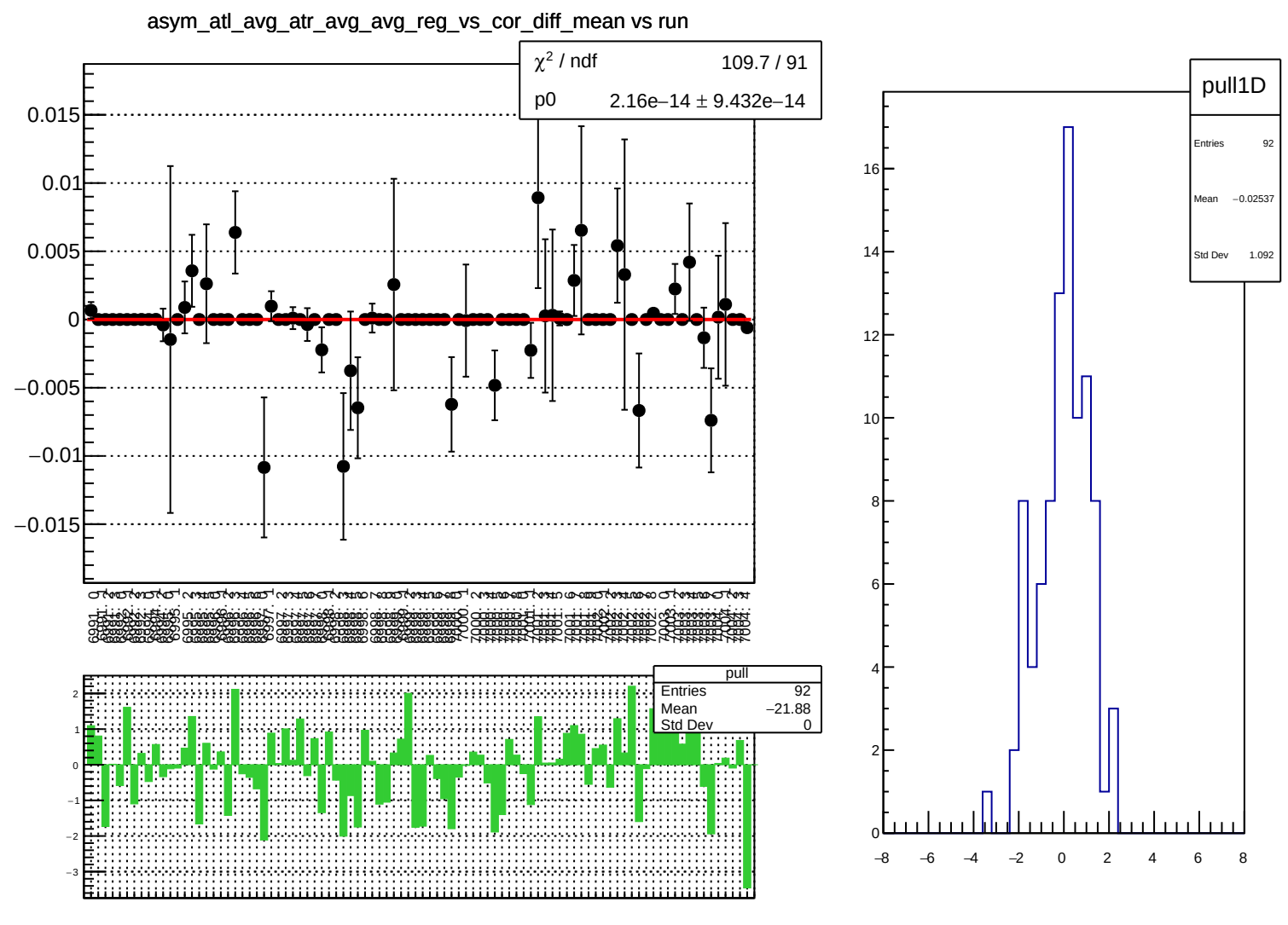

pull1D
Entries 92
Mean 0.001097
Std Dev 1.083

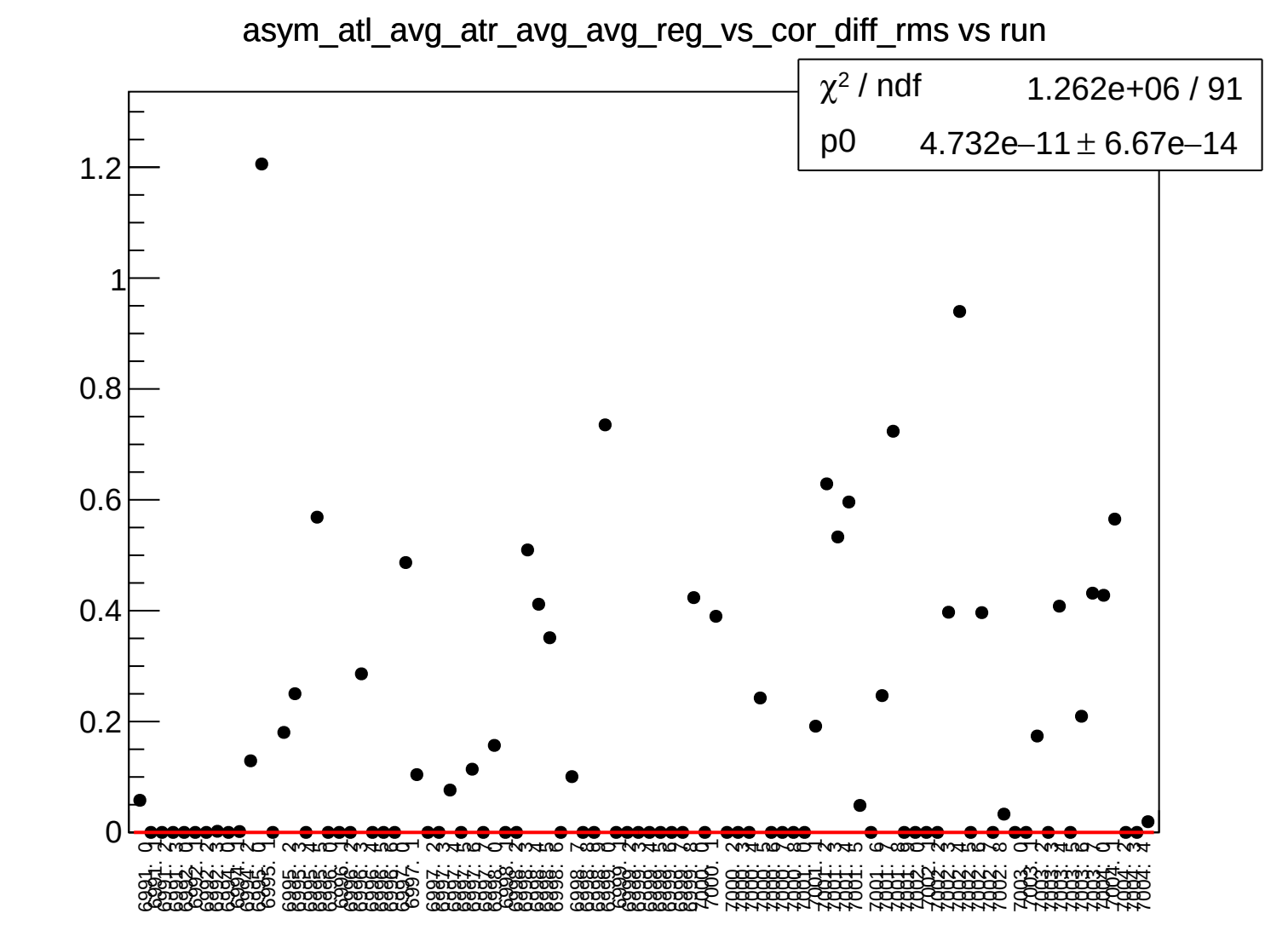

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2959 / 91
p0 4790 ± 3.608
5400
5200
5000
4800
4600
4400

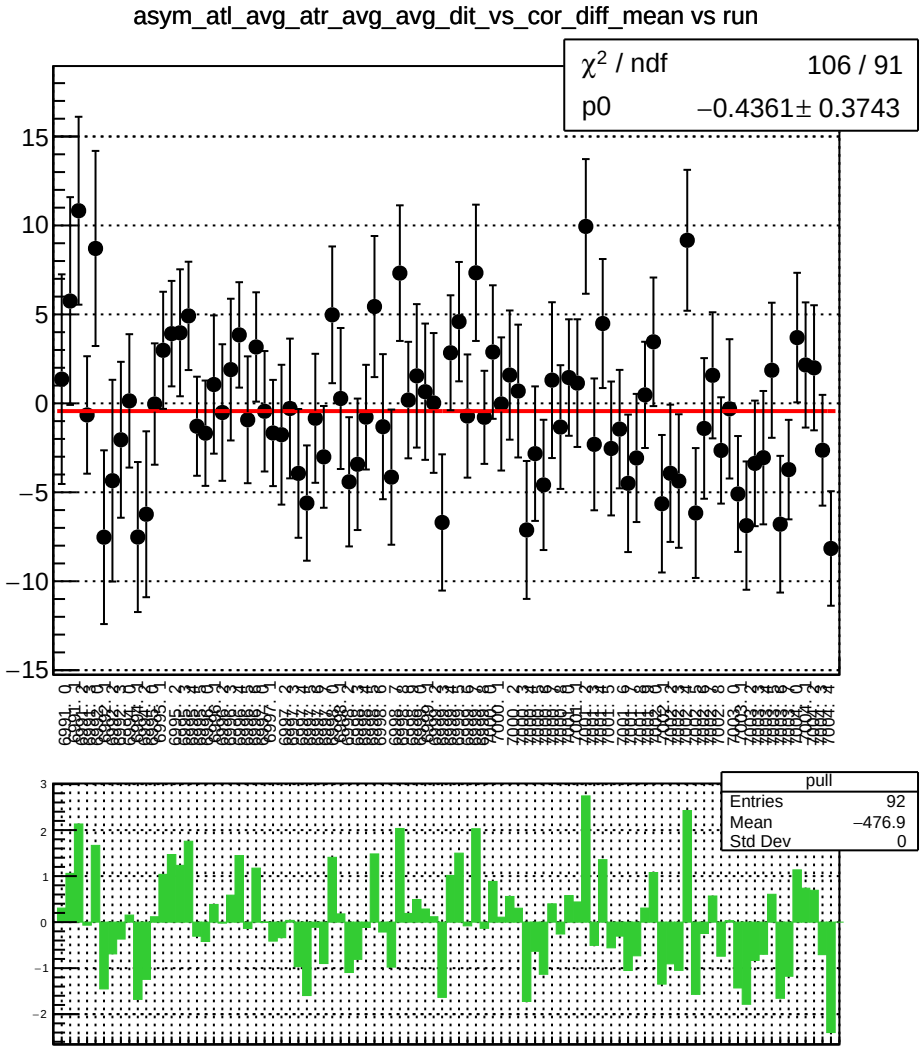

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 110.1 / 91
p0 −619.6 ± 4987
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −1829
Std Dev 0
3
2
1
0
−1
−2
−3

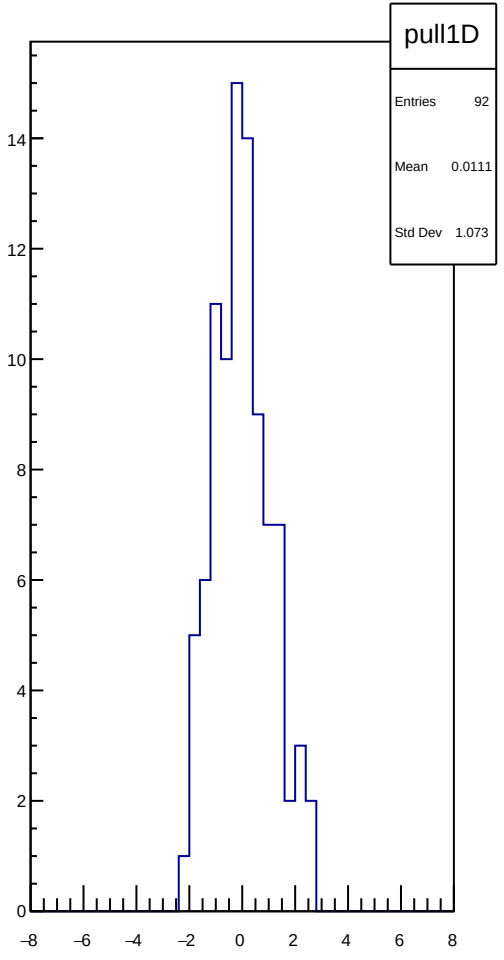

pull1D
Entries 92
Mean −0.003
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

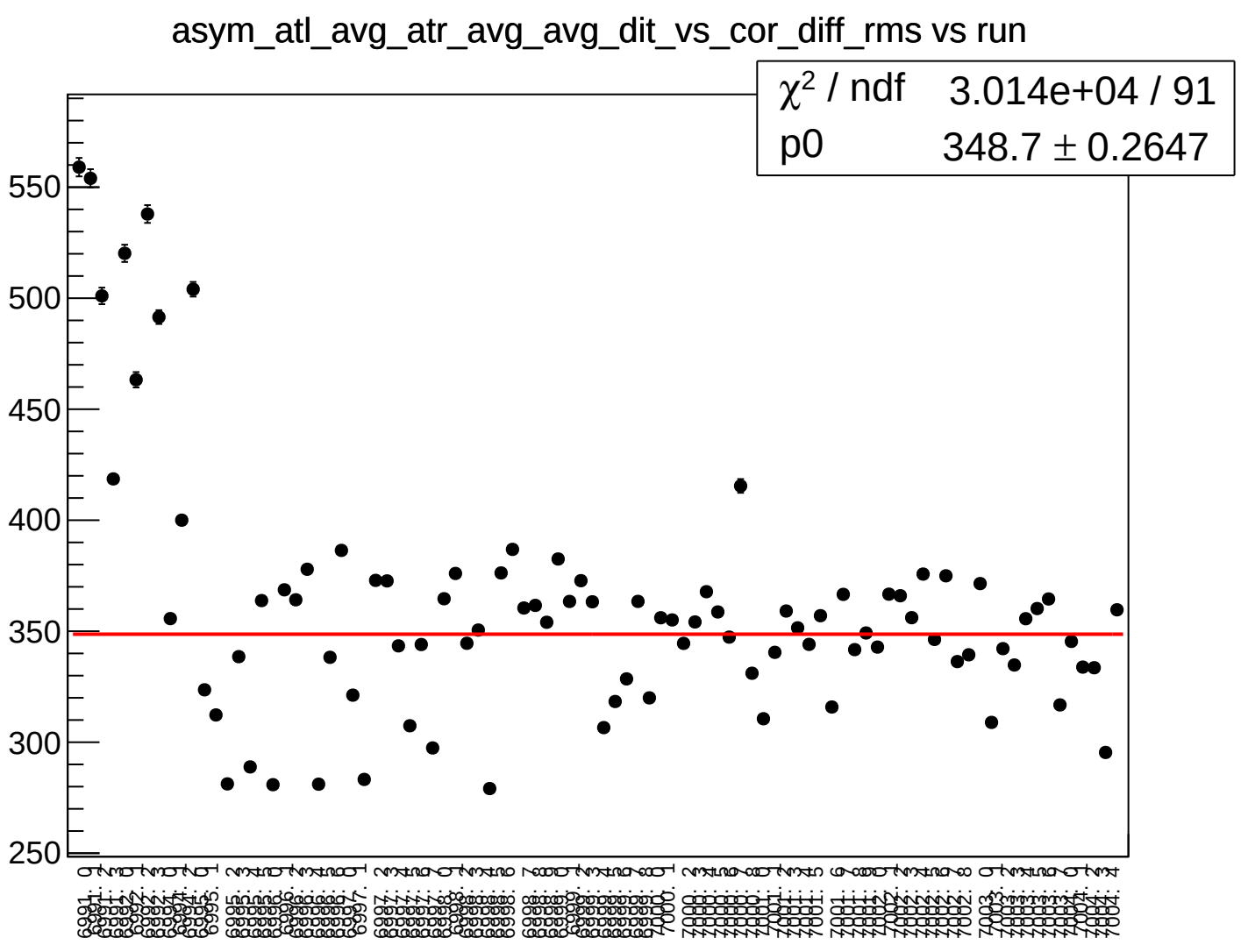

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2684 / 91
p0 4682 ± 3.527
5200
5000
4800
4600
4400
4200

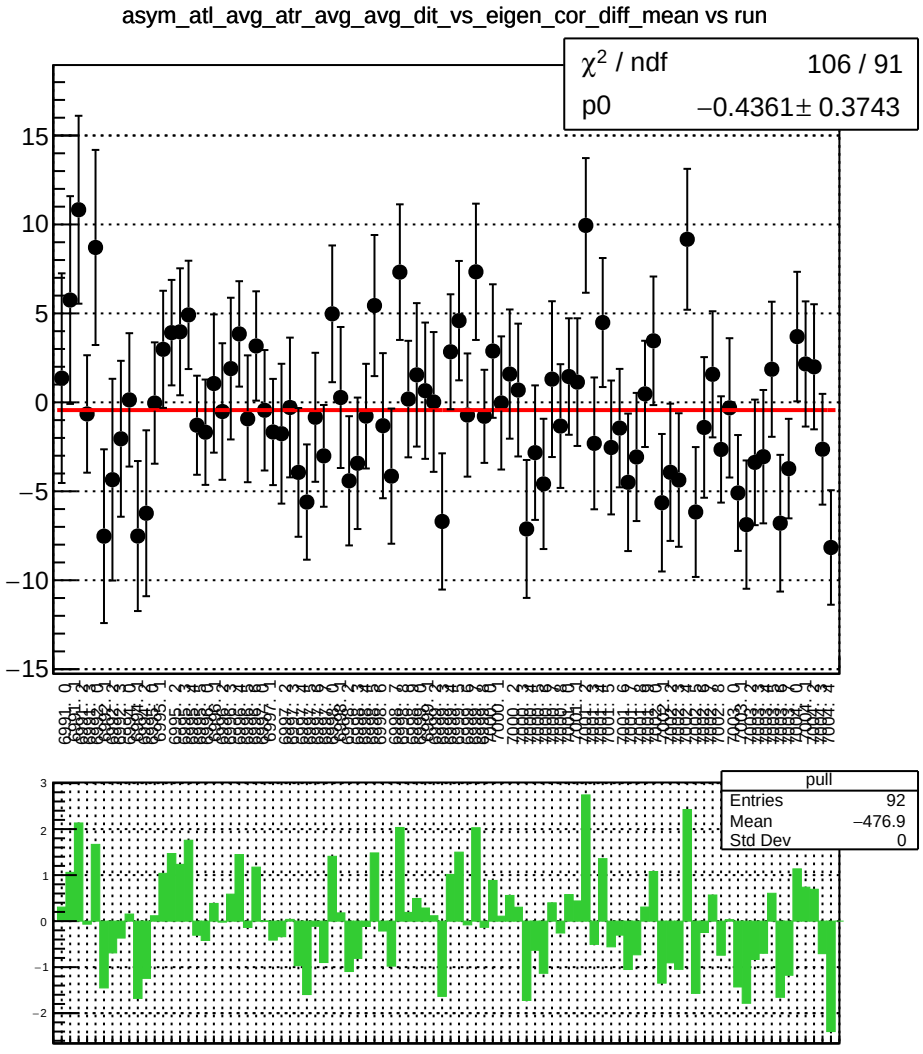

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 2.16e−14 ± 9.432e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean −21.88
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.02537
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

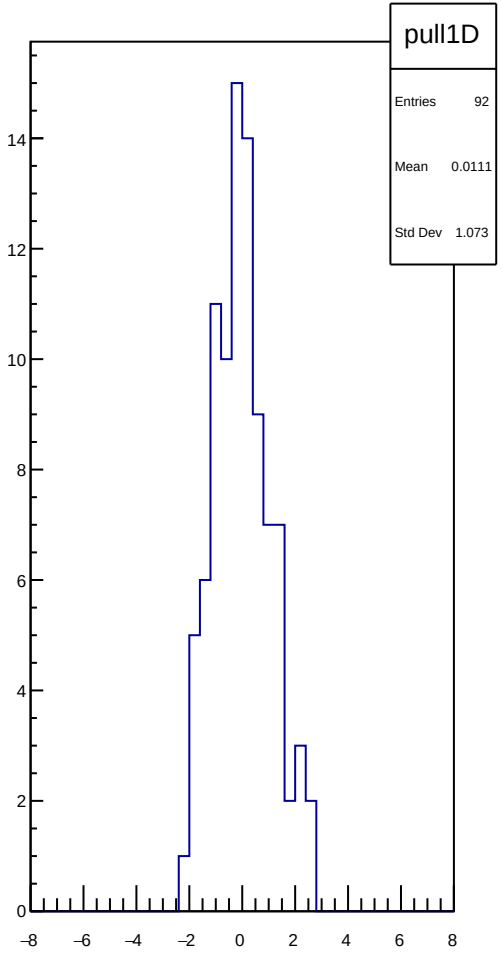

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.262e+06 / 91
p0 4.732e−11 ± 6.67e−14
1.2
1
0.8
0.6
0.4
0.2
0

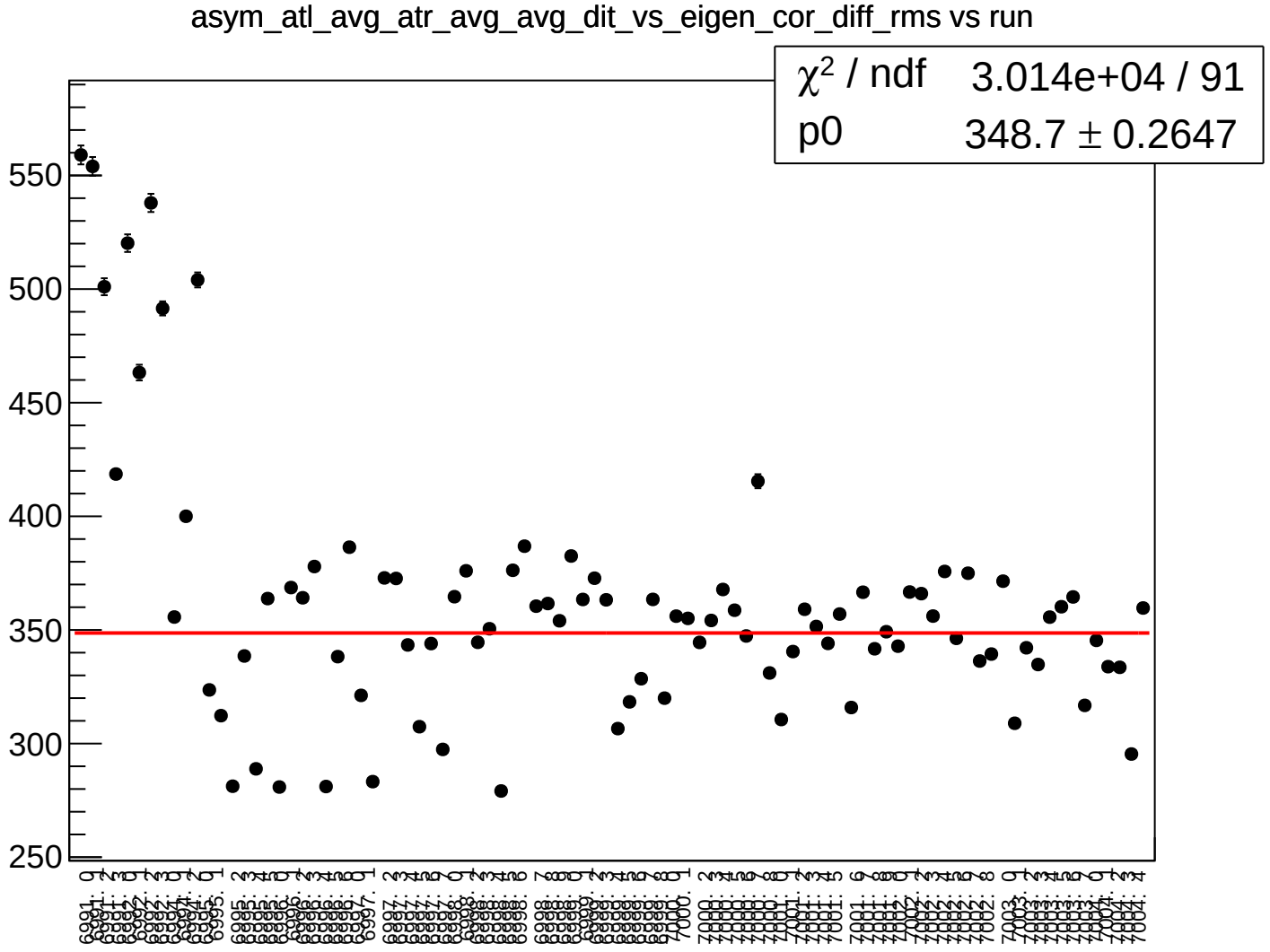

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106 / 91
p0 −0.4361± 0.3743
pull
Entries 92
Mean −476.9
Std Dev 0

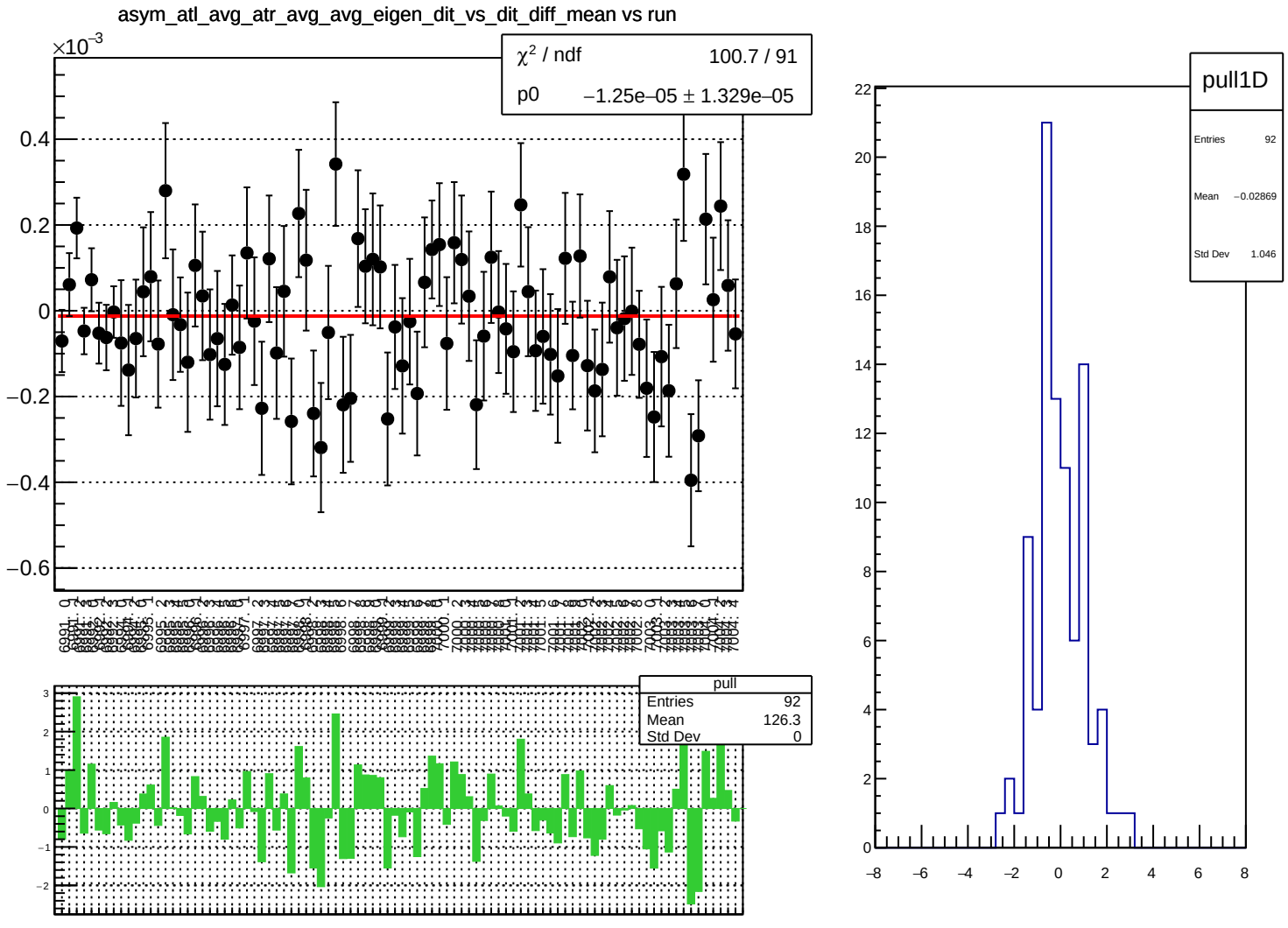

pull1D
Entries 92
Mean 0.0111
Std Dev 1.073

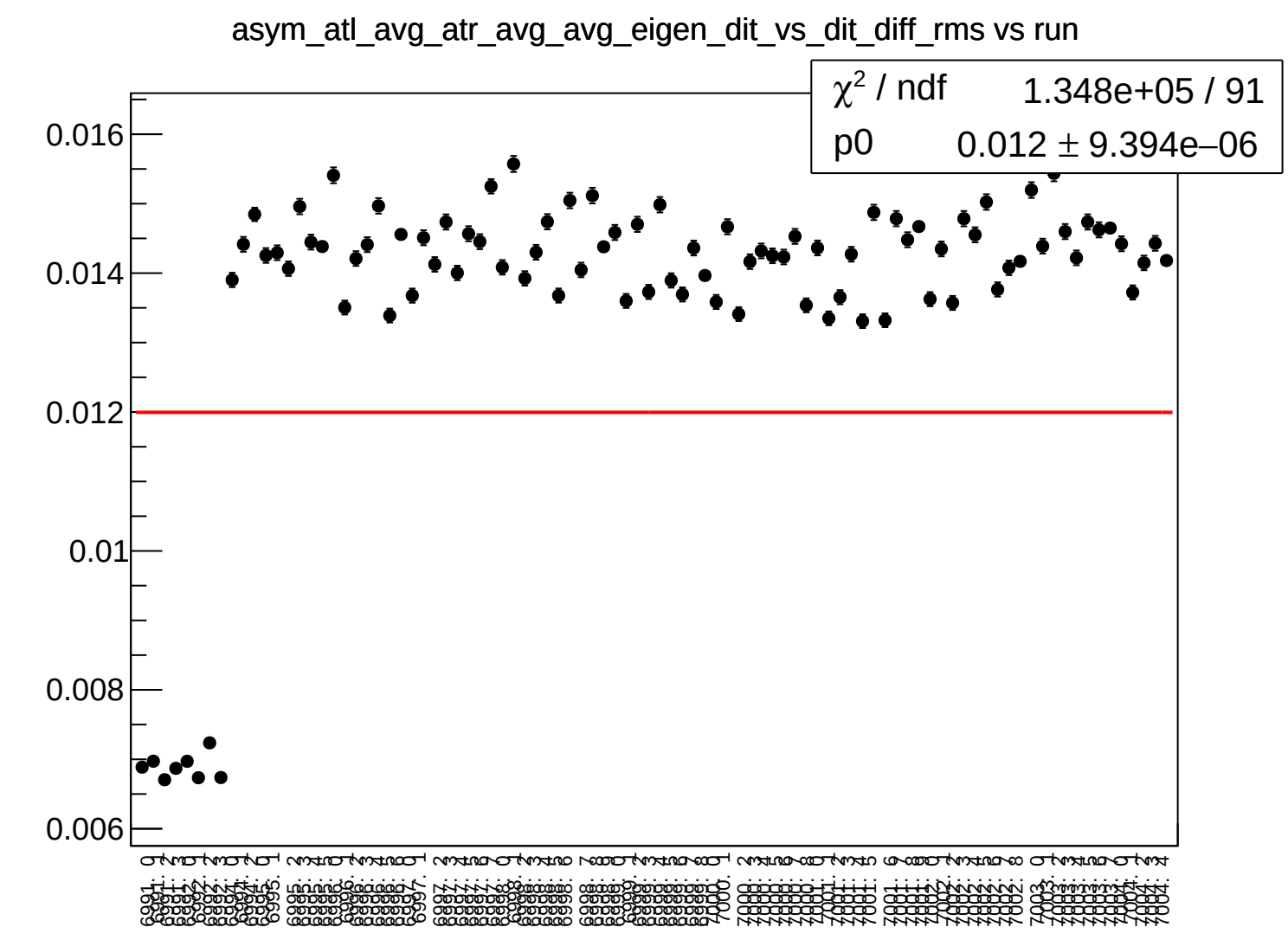

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.014e+04 / 91
p0 348.7 ± 0.2647
550
500
450
400
350
300
250

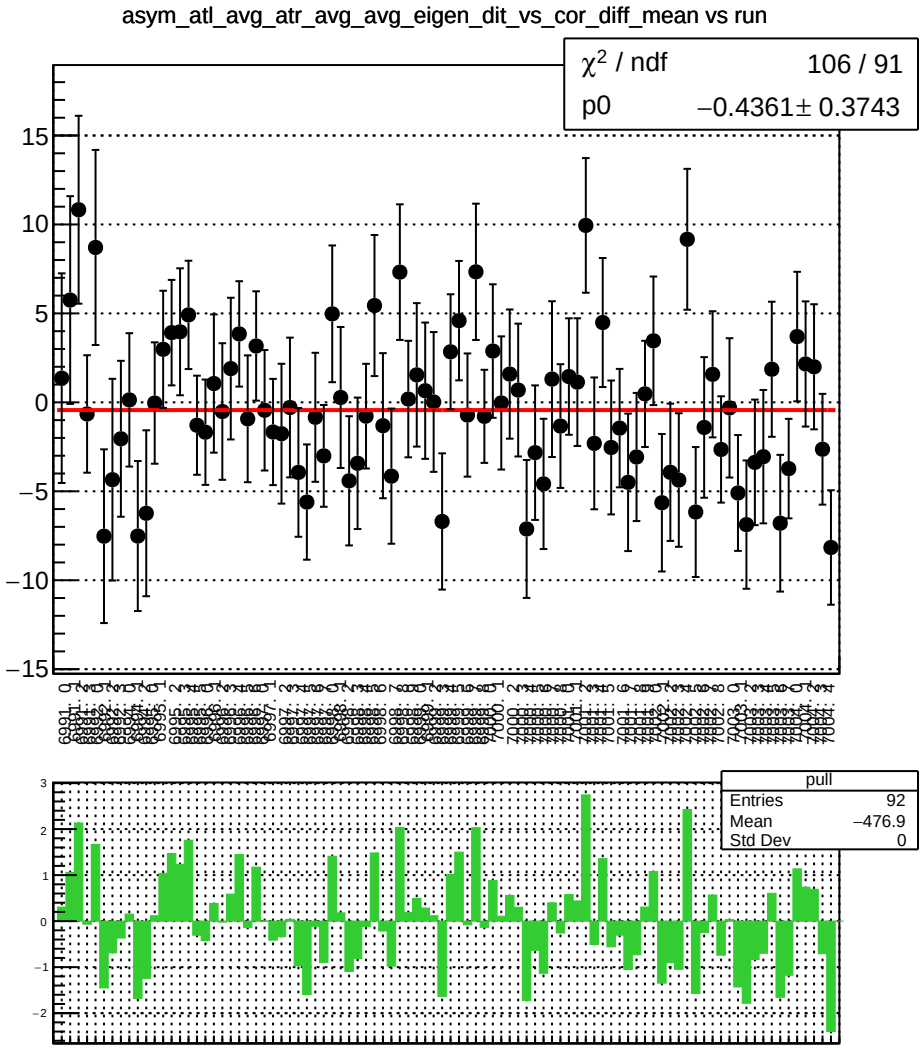

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106 / 91
p0 −0.4361± 0.3743
pull
Entries 92
Mean −476.9
Std Dev 0

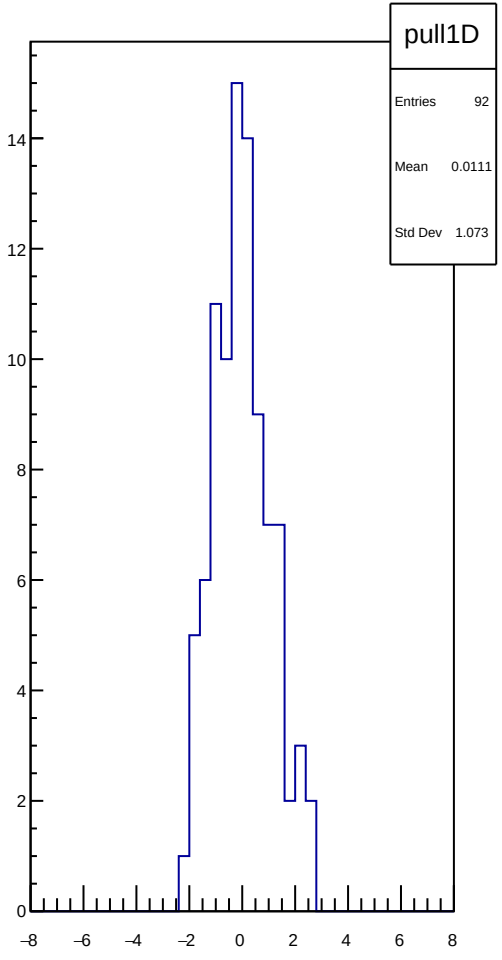

pull1D
Entries 92
Mean 0.0111
Std Dev 1.073

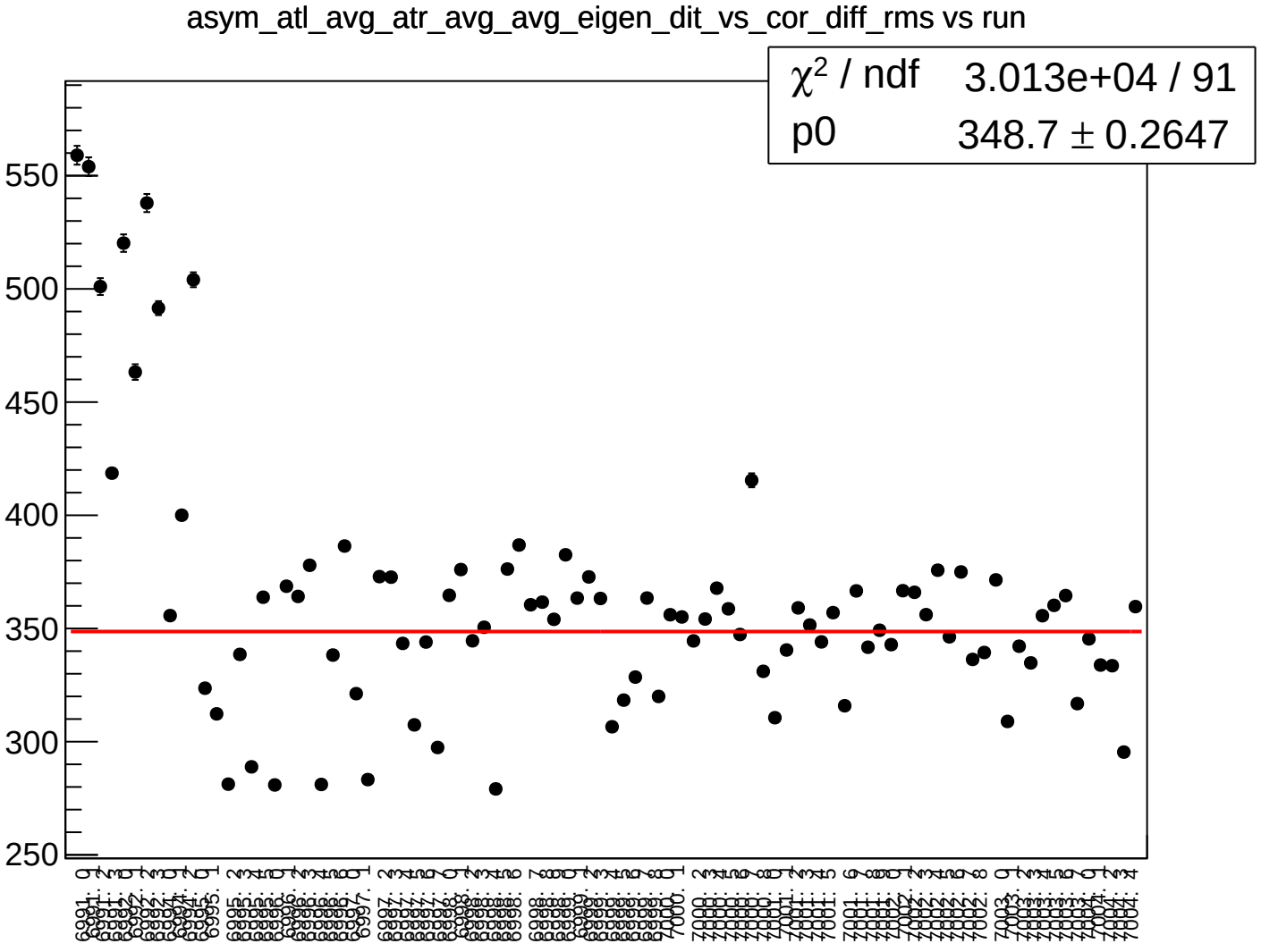

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.014e+04 / 91
p0 348.7 ± 0.2647
550
500
450
400
350
300
250

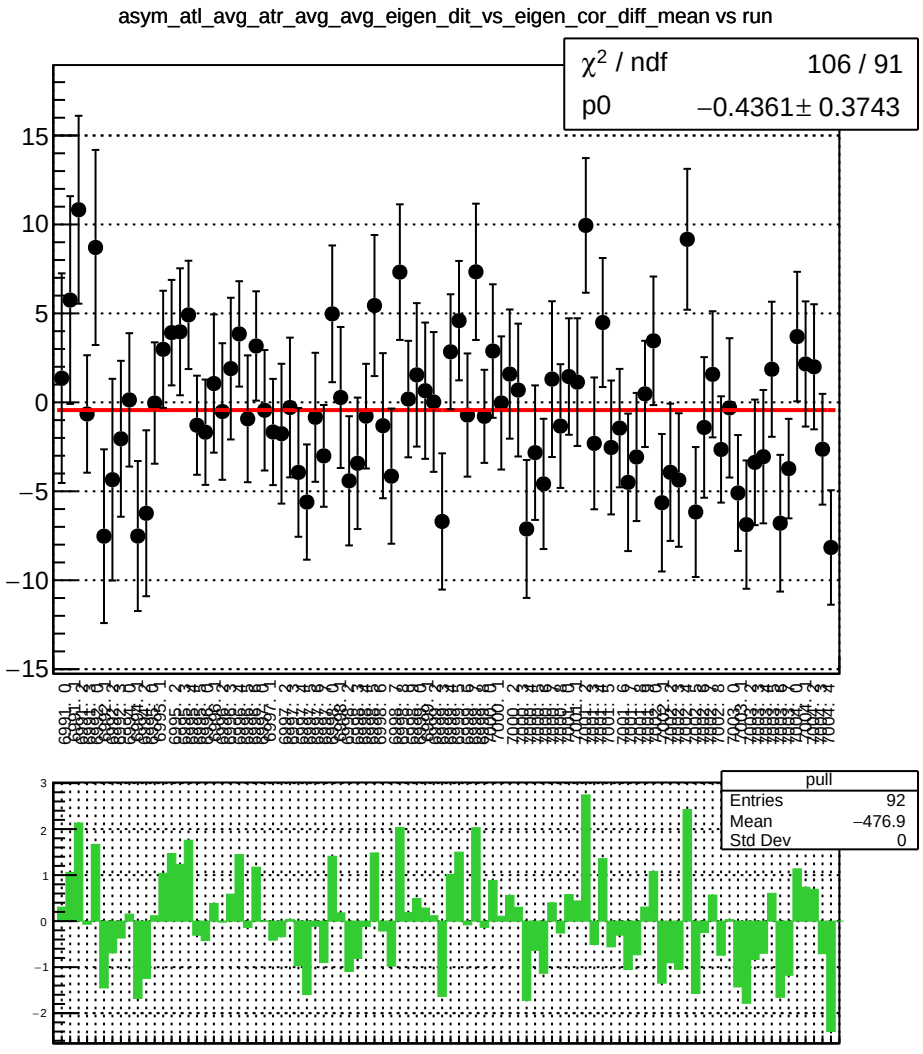

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.7 / 91
p0 −1.25e−05 ± 1.329e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean 126.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.02869
Std Dev 1.046
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

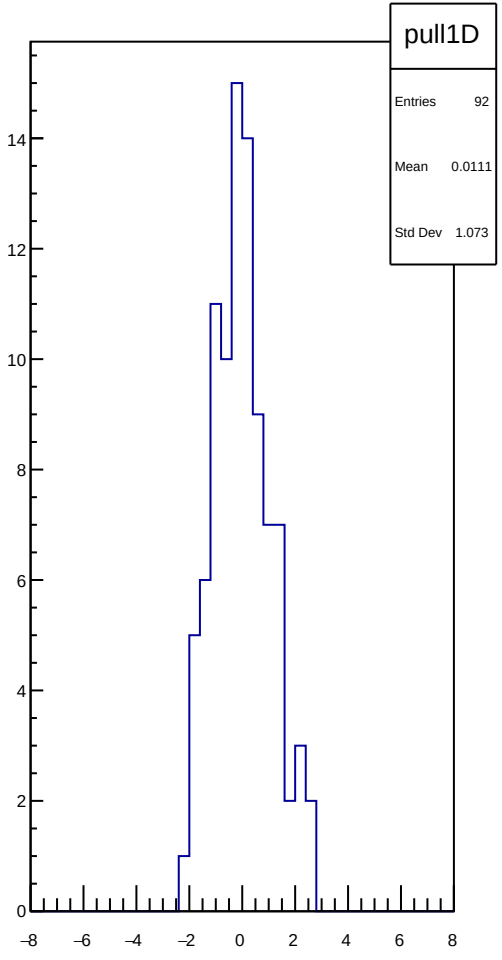

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.348e+05 / 91
p0 0.012 ± 9.394e−06
0.016
0.014
0.012
0.01
0.008
0.006

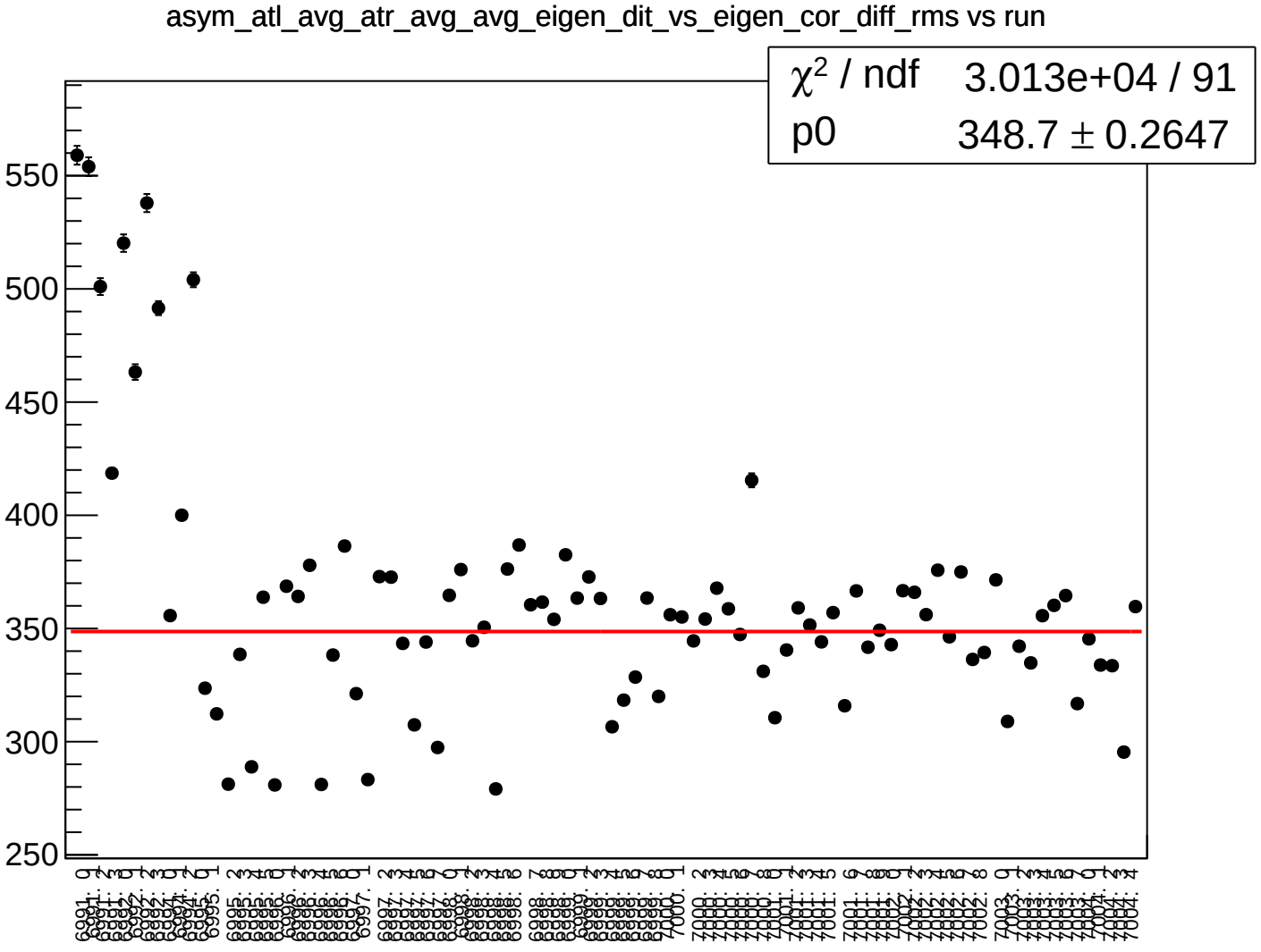

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106 / 91
p0 −0.4361± 0.3743
pull
Entries 92
Mean −476.9
Std Dev 0

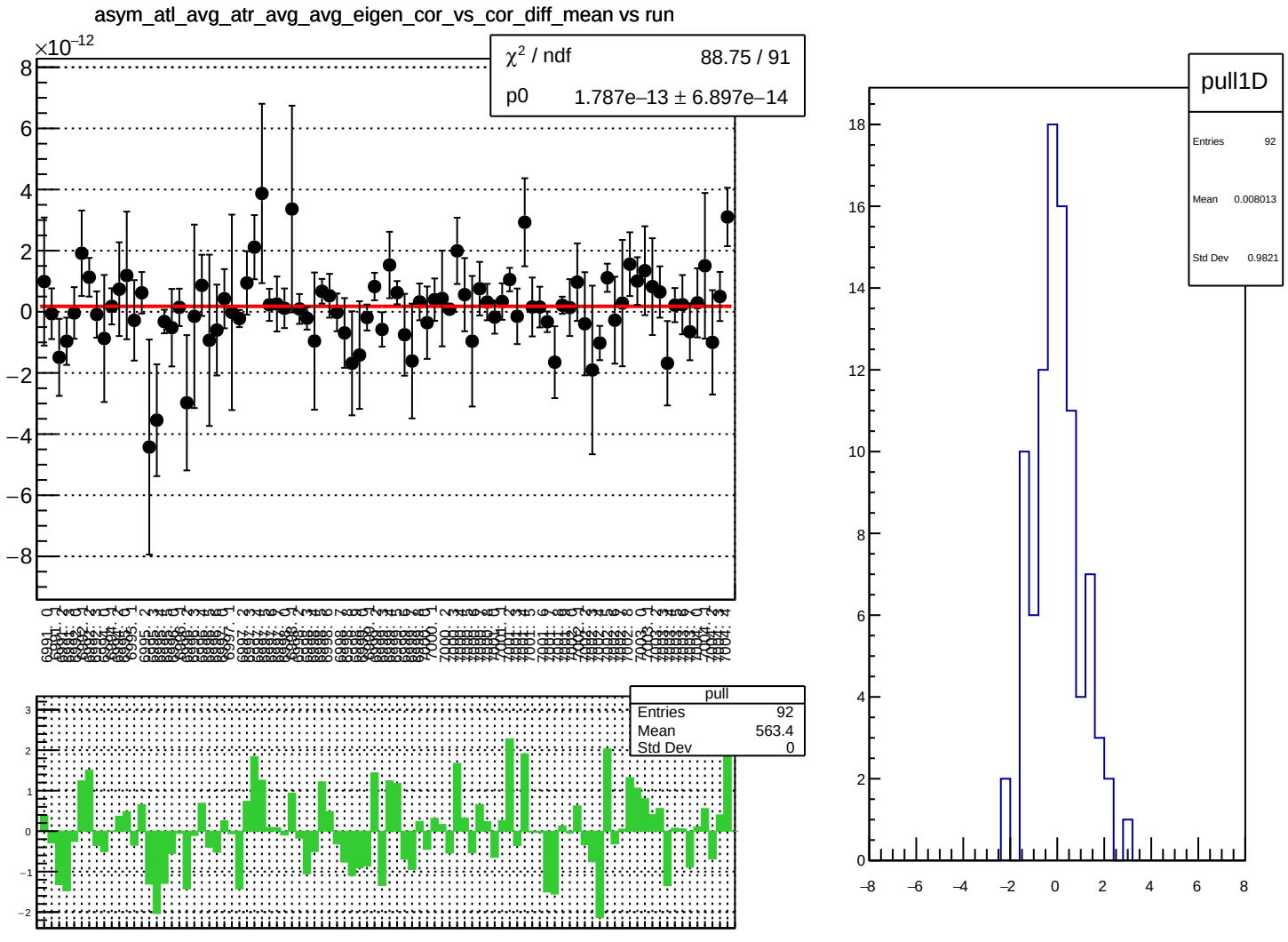

pull1D
Entries 92
Mean 0.0111
Std Dev 1.073

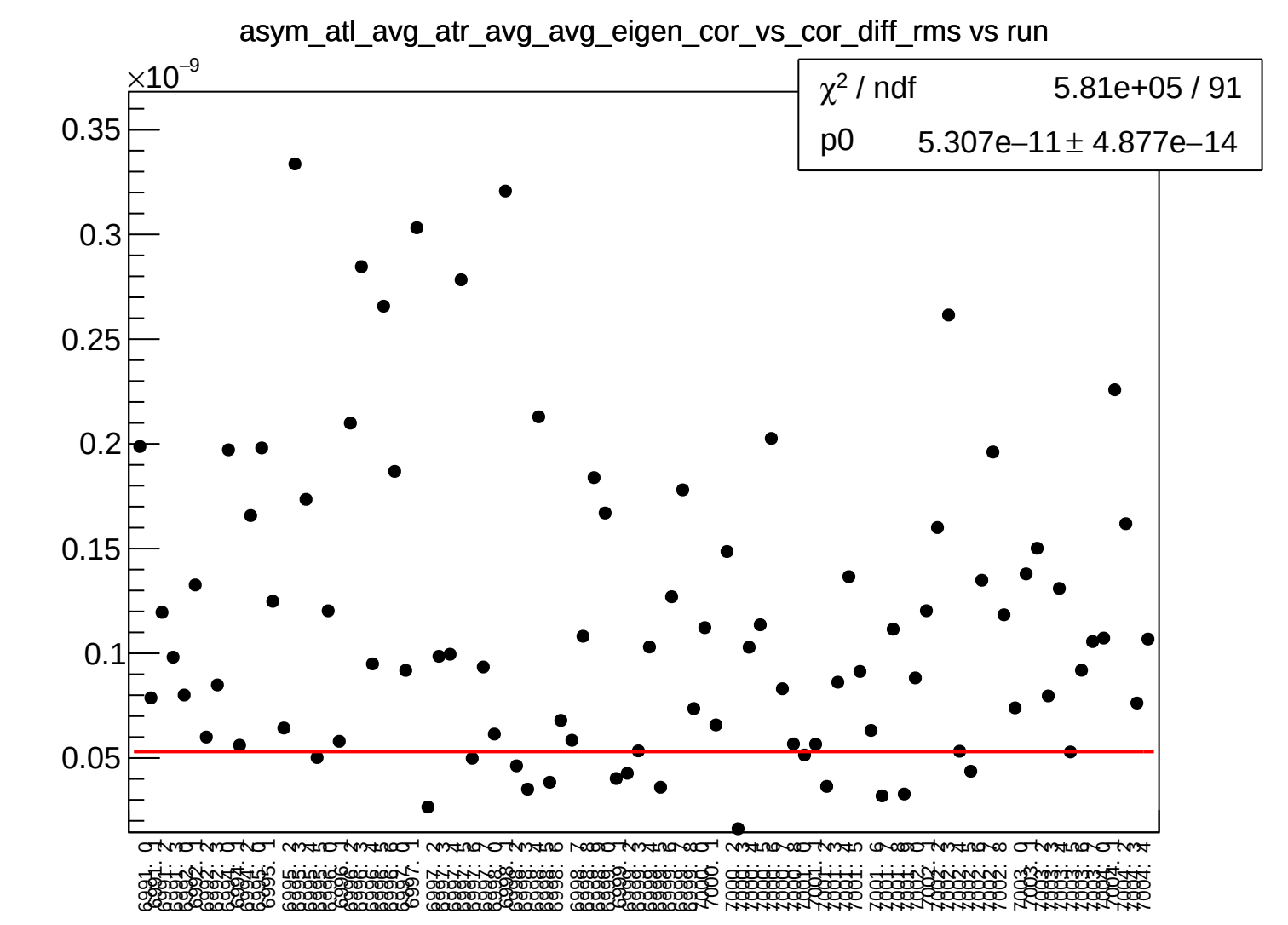

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.013e+04 / 91
p0 348.7 ± 0.2647
550
500
450
400
350
300
250

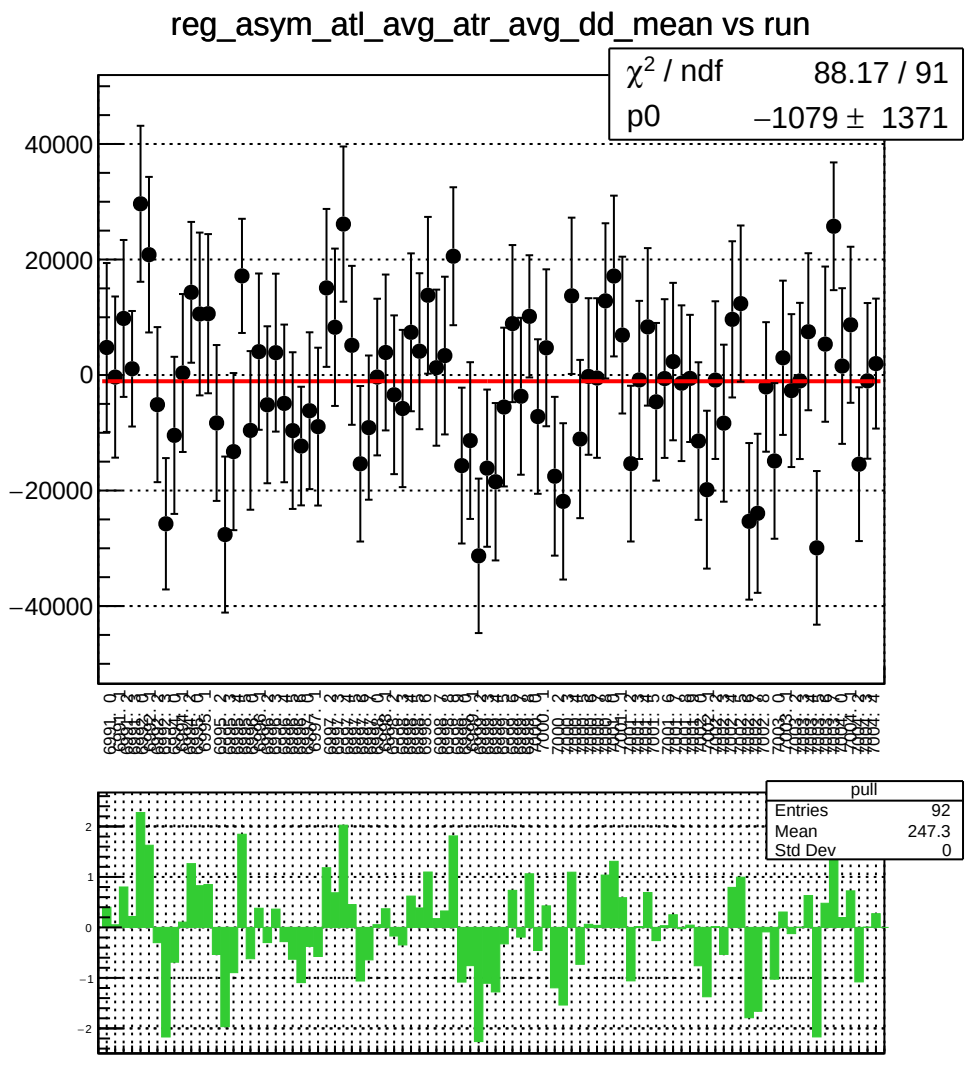

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106 / 91
p0 −0.4361± 0.3743
pull
Entries 92
Mean −476.9
Std Dev 0

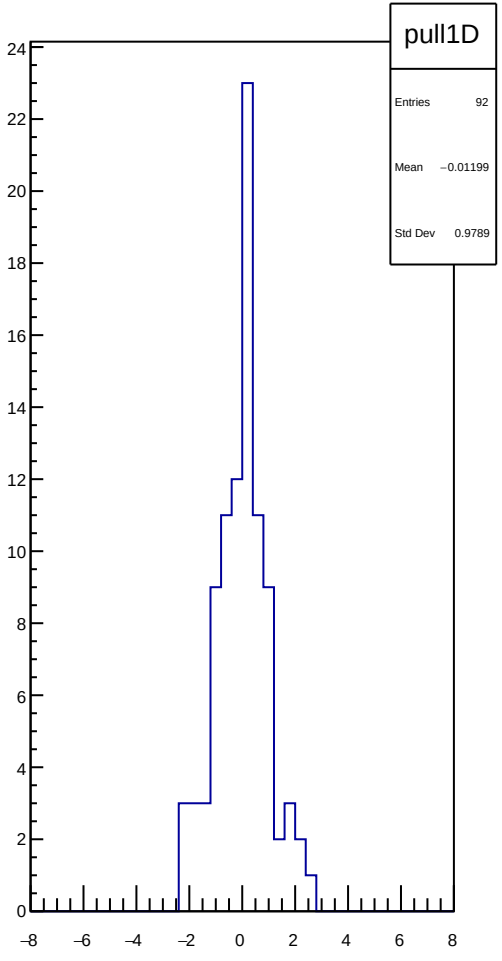

pull1D
Entries 92
Mean 0.0111
Std Dev 1.073

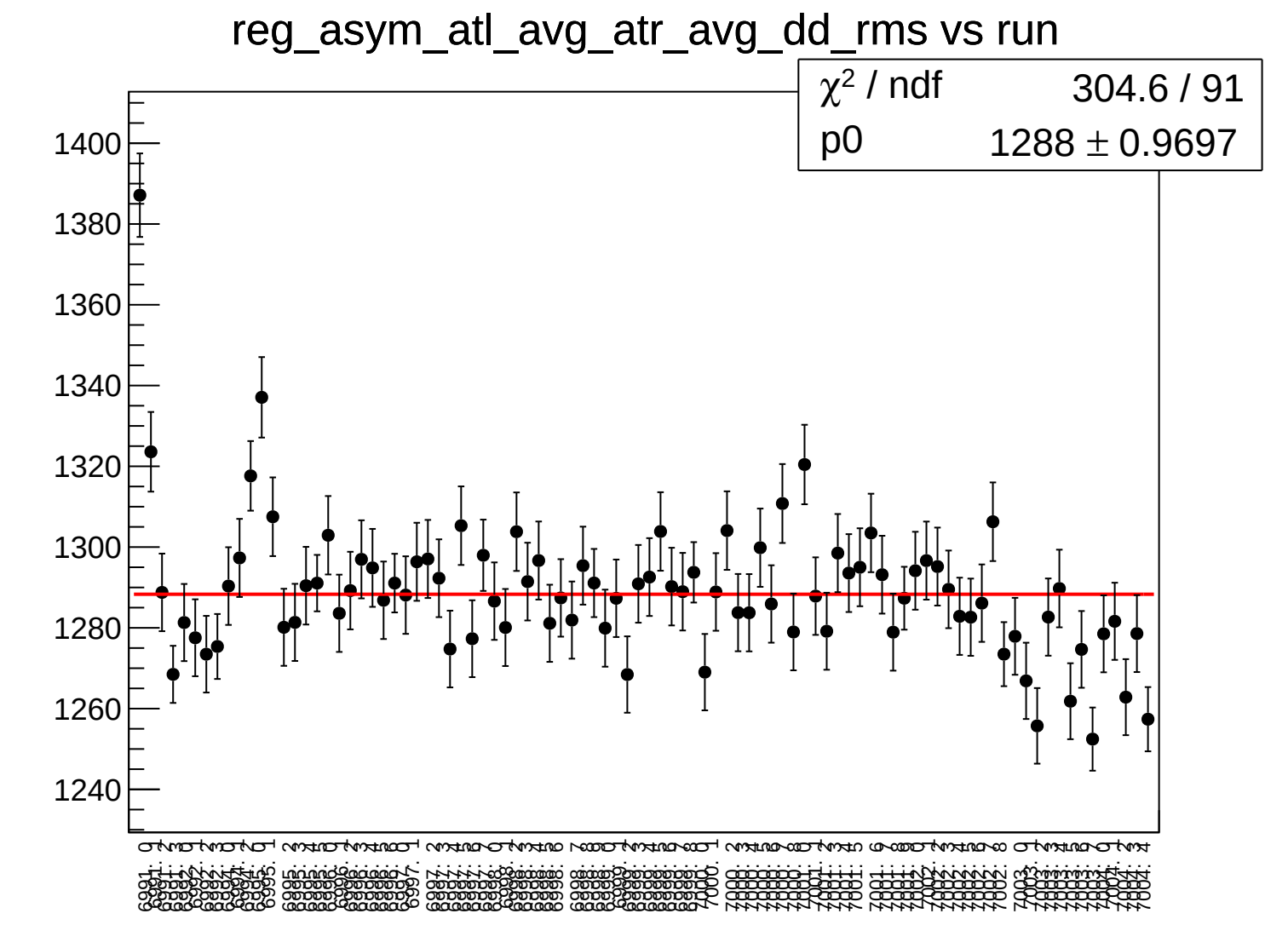

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.013e+04 / 91
p0 348.7 ± 0.2647
550
500
450
400
350
300
250

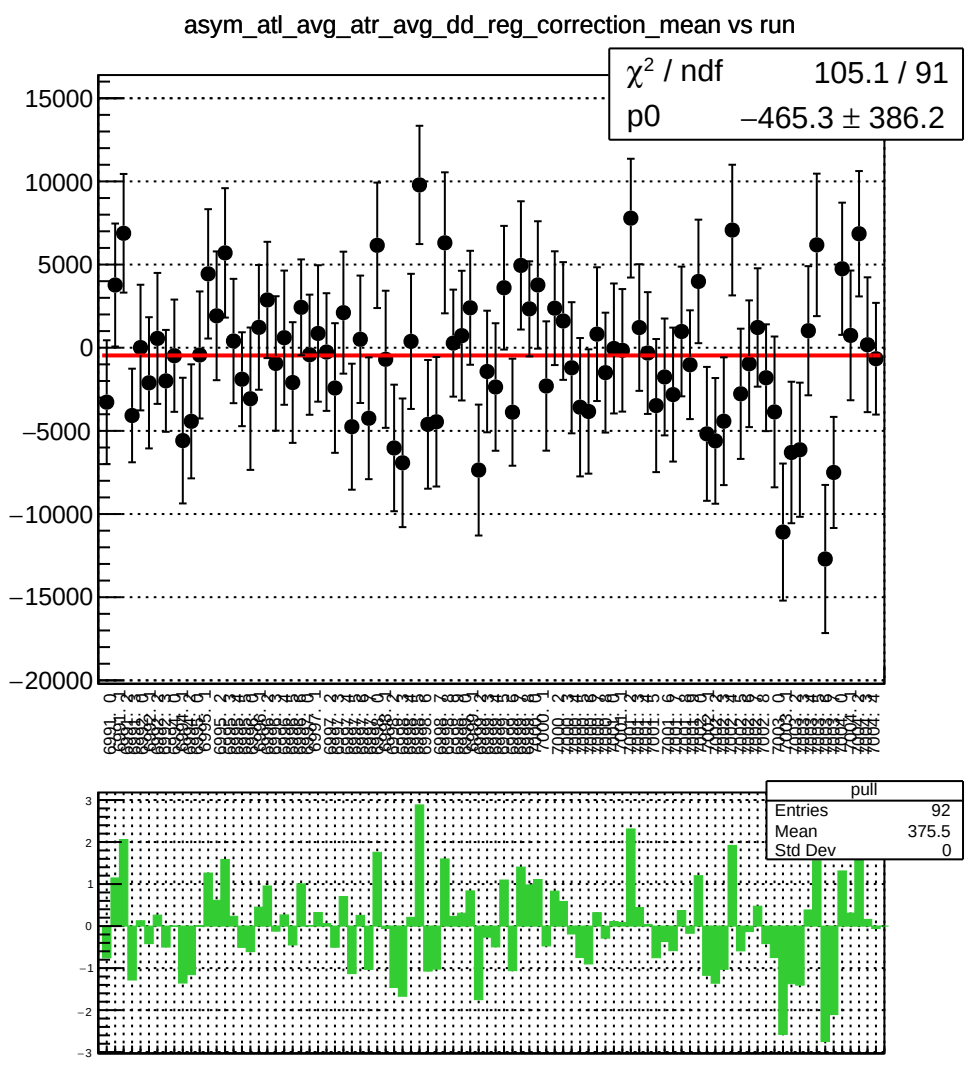

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.75 / 91
p0 1.787e−13 ± 6.897e−14
pull
Entries 92
Mean 563.4
Std Dev 0
pull1D
Entries 92
Mean 0.008013
Std Dev 0.9821

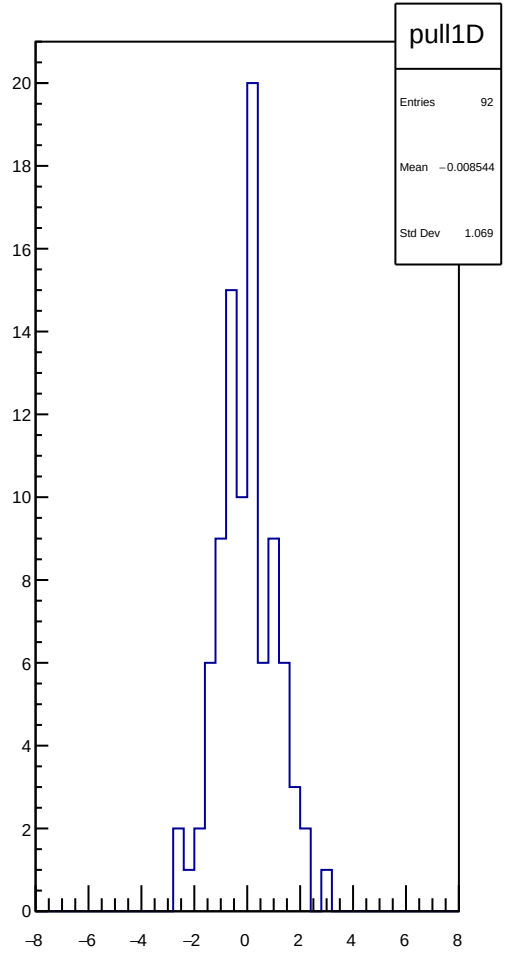

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.81e+05 / 91
p0 5.307e−11 ± 4.877e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

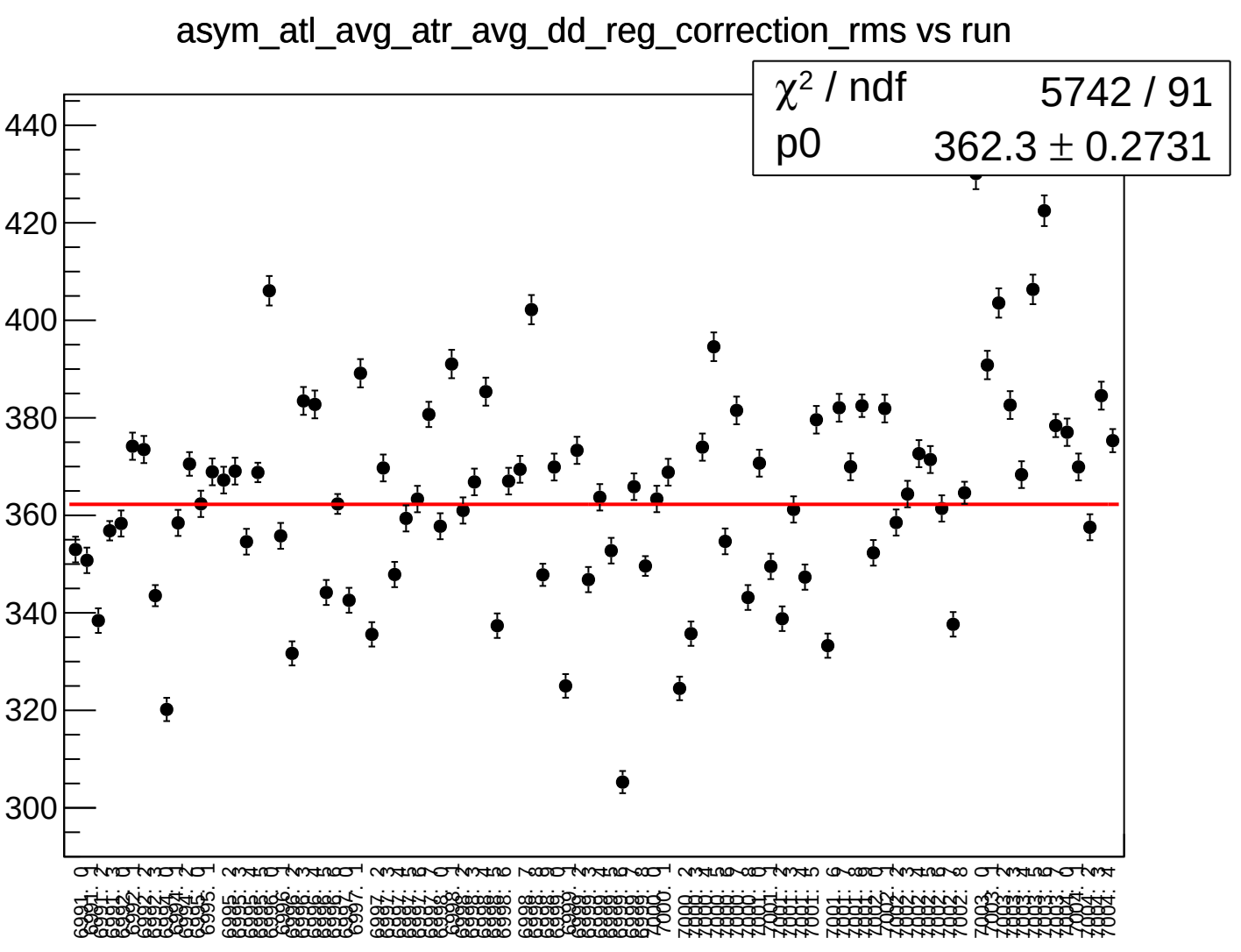

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.17 / 91
p0 −1079 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 247.3
Std Dev 0
2
1
0
−1
−2

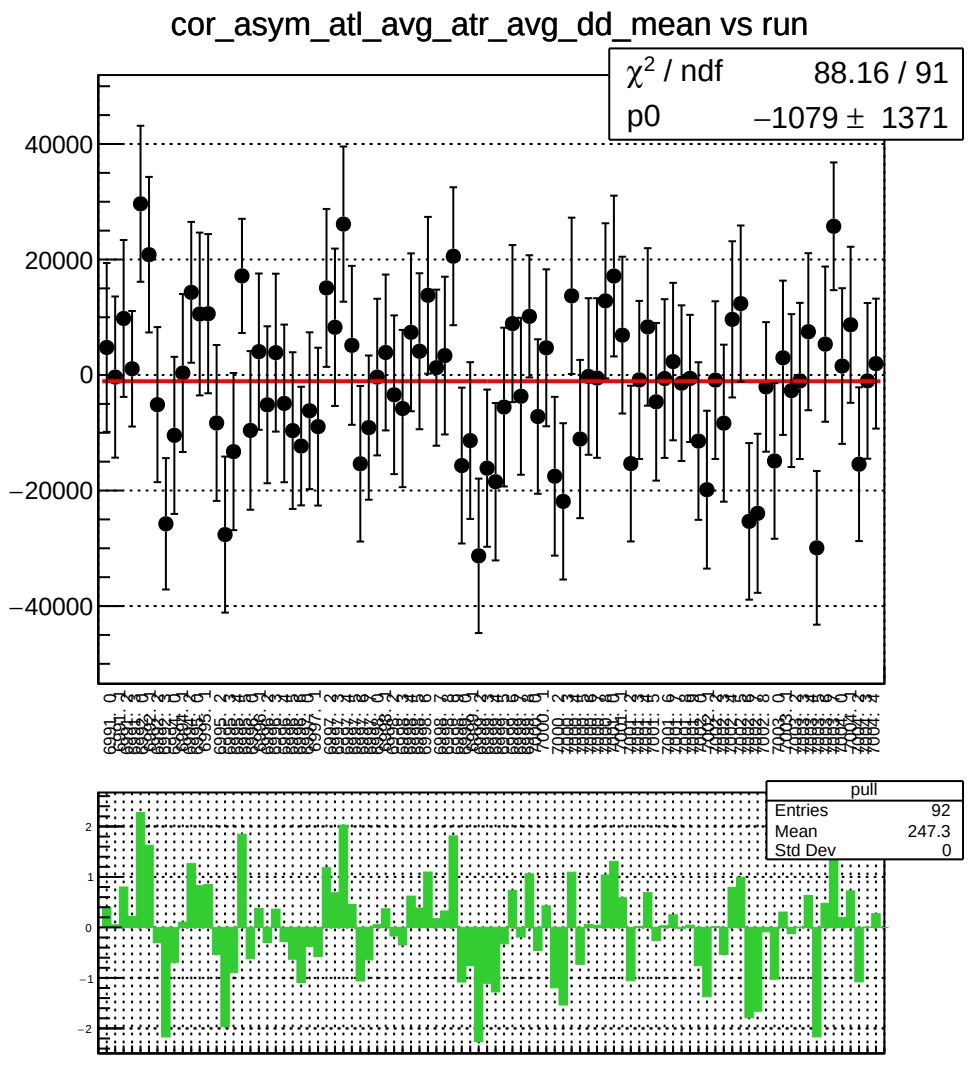

pull1D
Entries 92
Mean −0.01199
Std Dev 0.9789
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

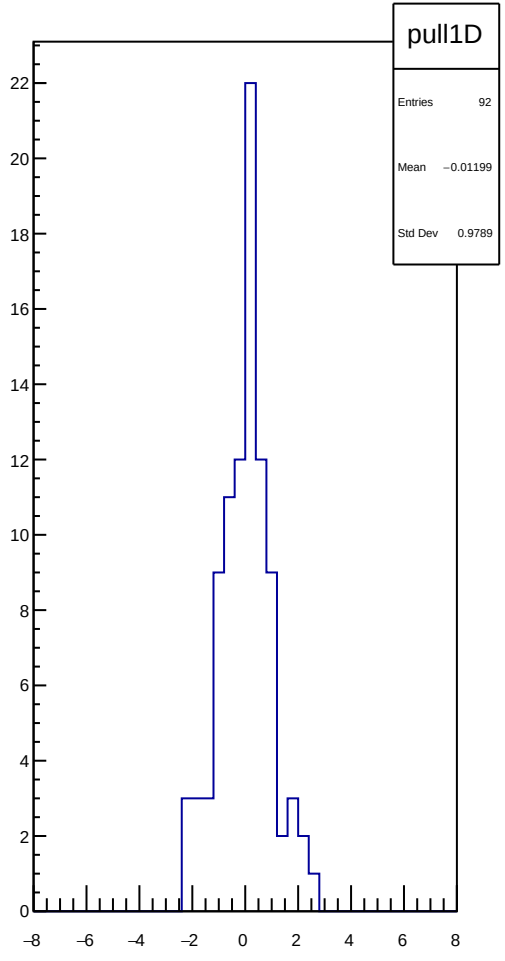

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 304.6 / 91
p0 1288 ± 0.9697
1400
1380
1360
1340
1320
1300
1280
1260
1240

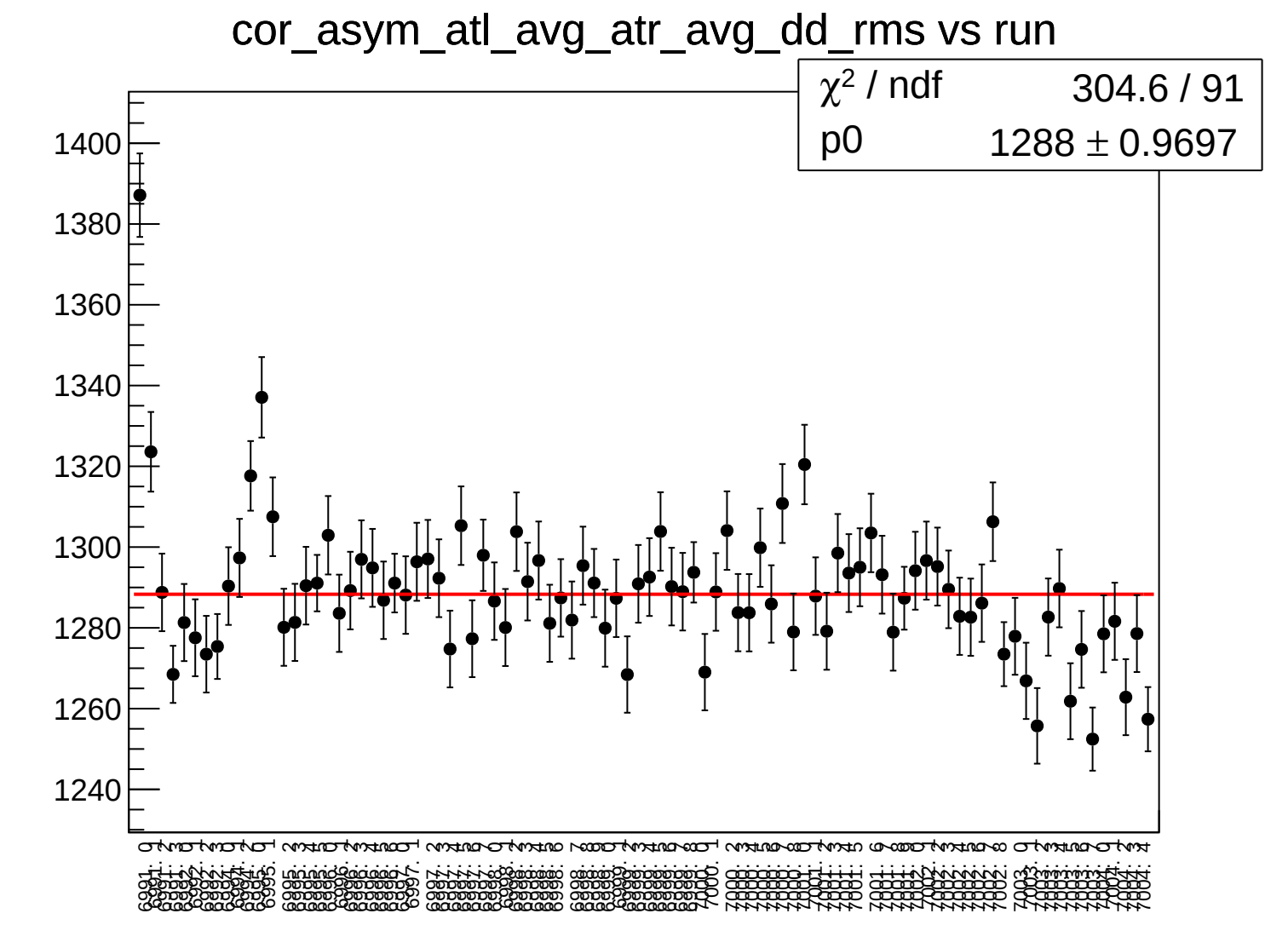

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 105.1 / 91
p0 −465.3 ± 386.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 375.5
Std Dev 0
3
2
1
0
−1
−2
−3

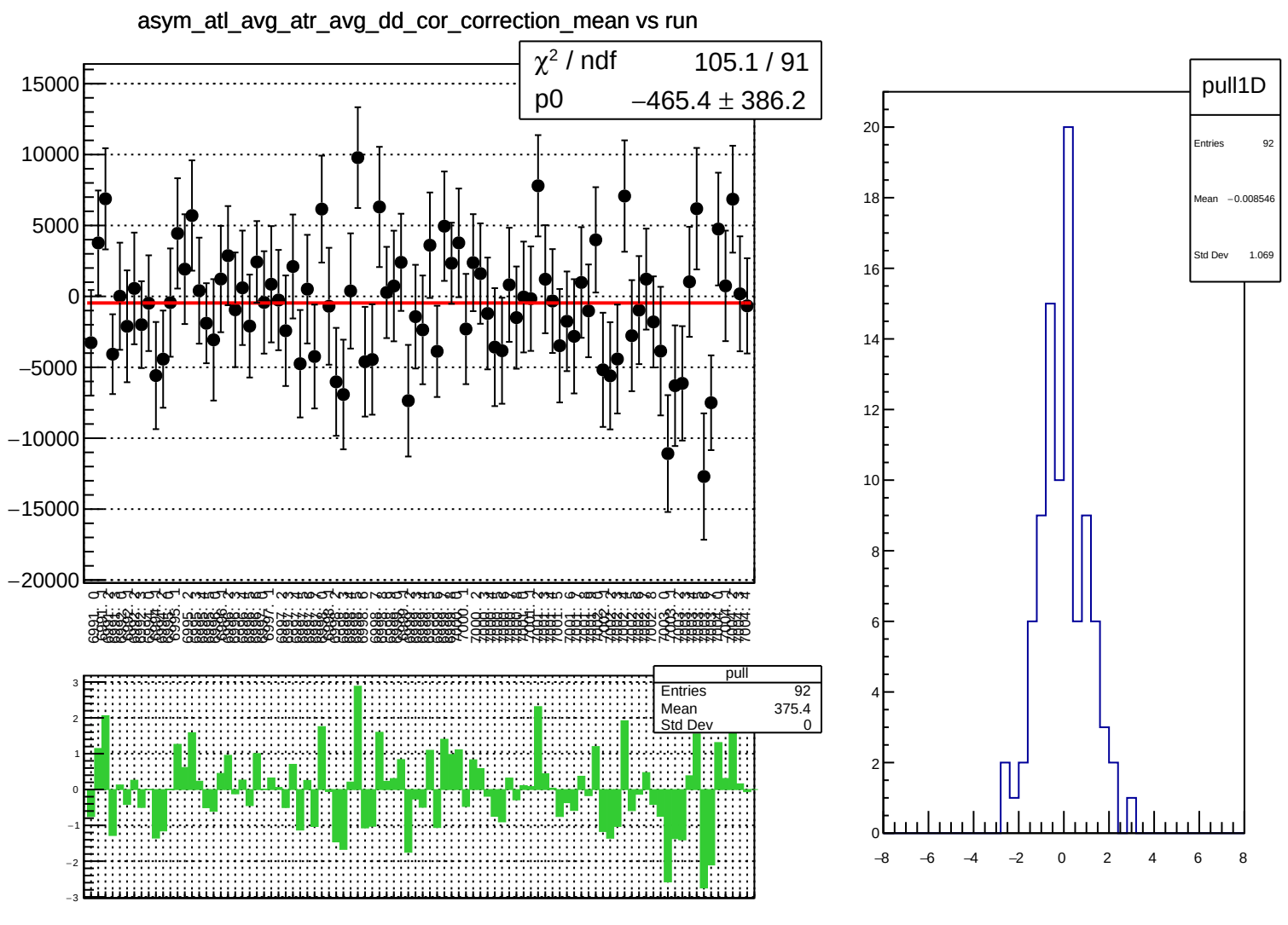

pull1D
Entries 92
Mean −0.008544
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

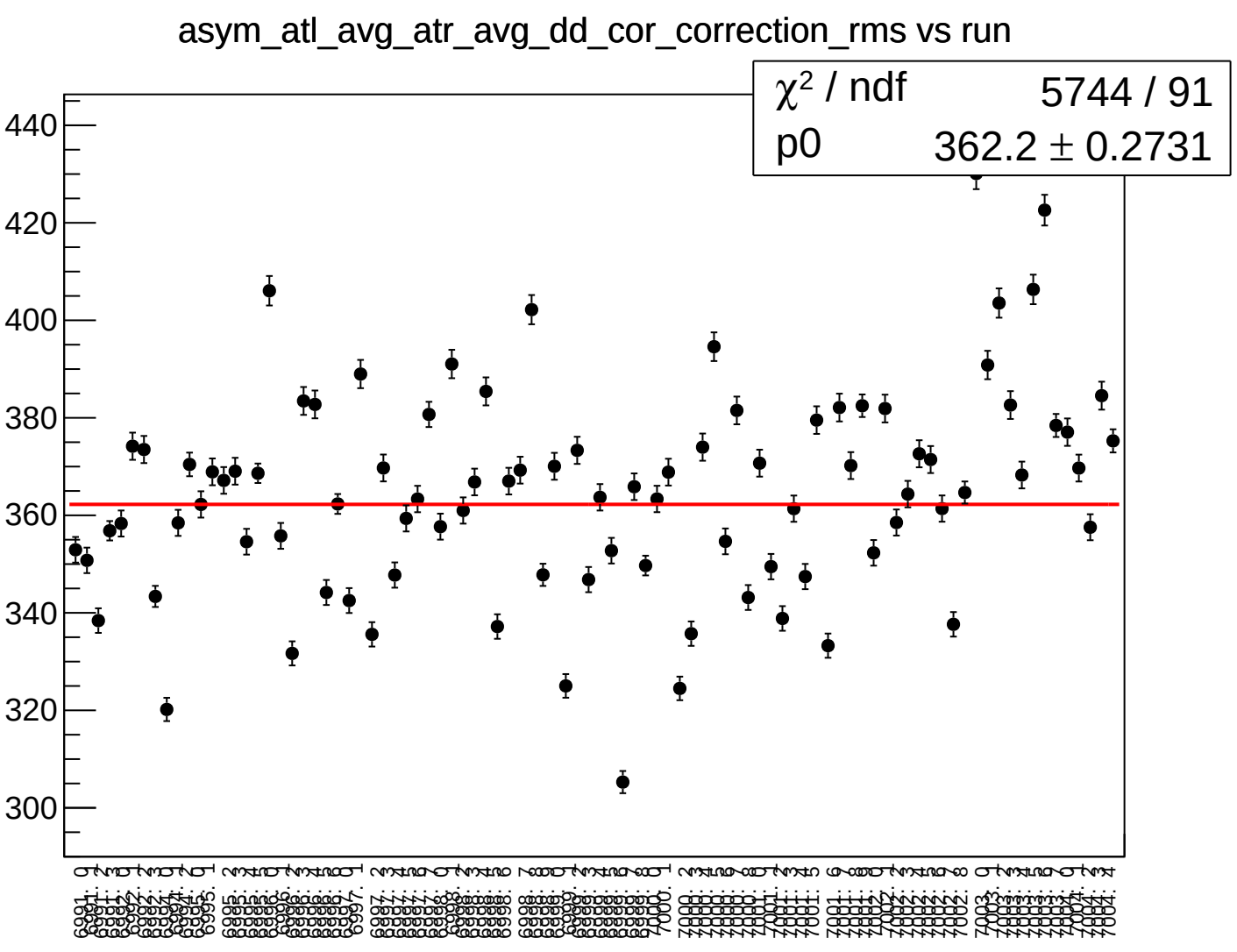

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 5742 / 91
p0 362.3 ± 0.2731
440
420
400
380
360
340
320
300

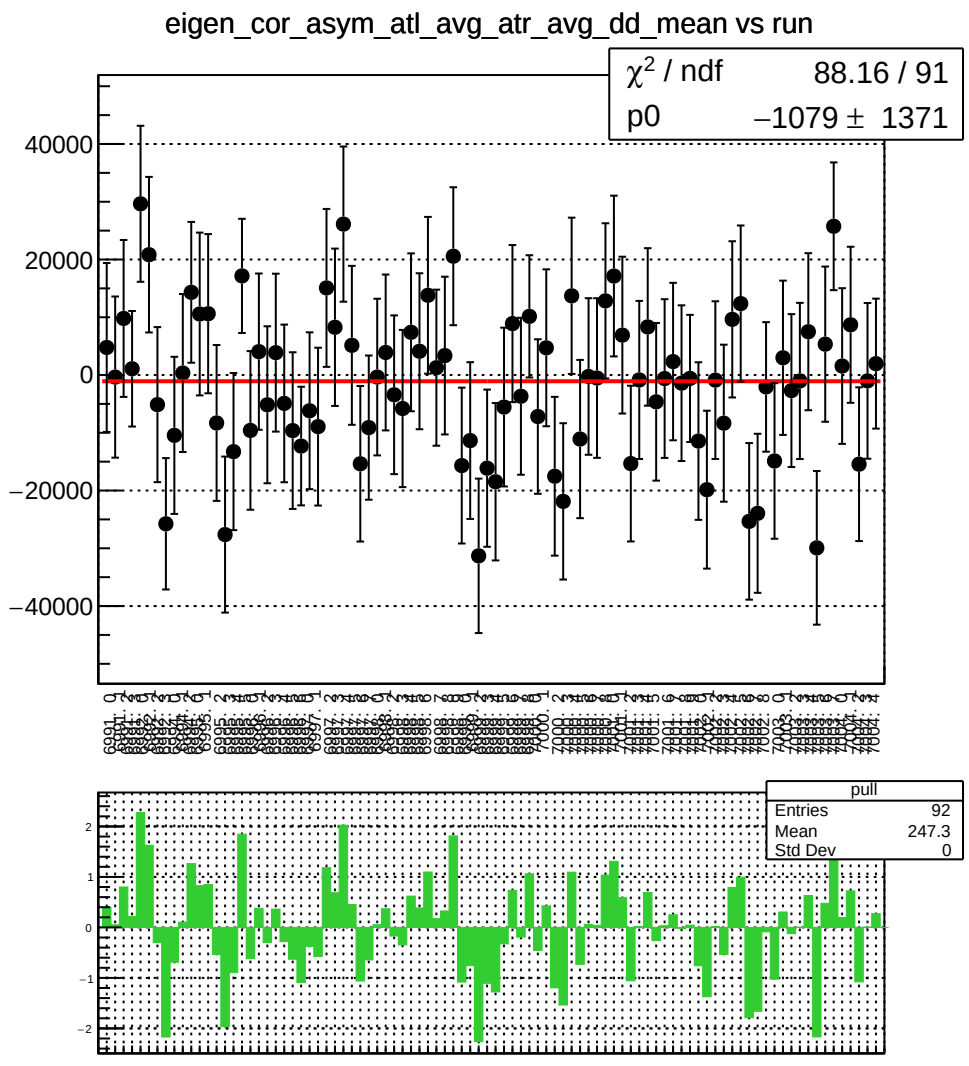

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.16 / 91
p0 −1079 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 247.3
Std Dev 0
2
1
0
−1
−2

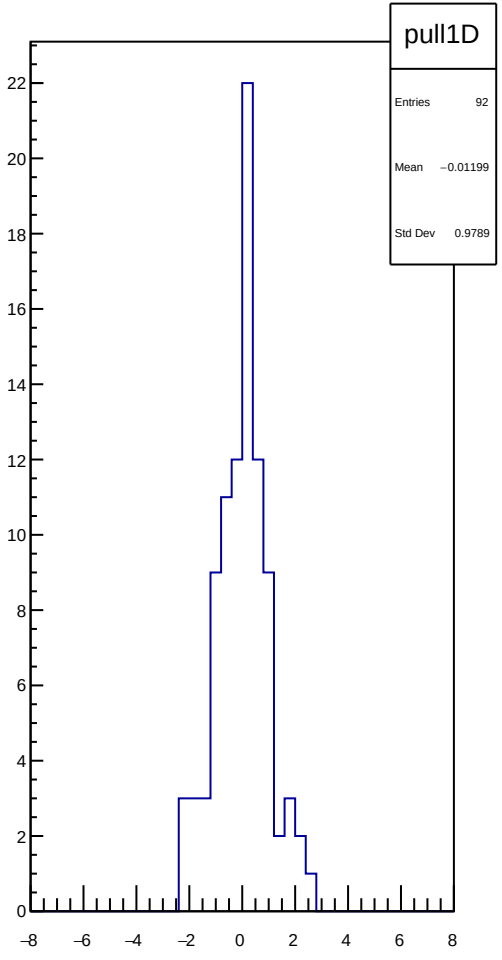

pull1D
Entries 92
Mean −0.01199
Std Dev 0.9789
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

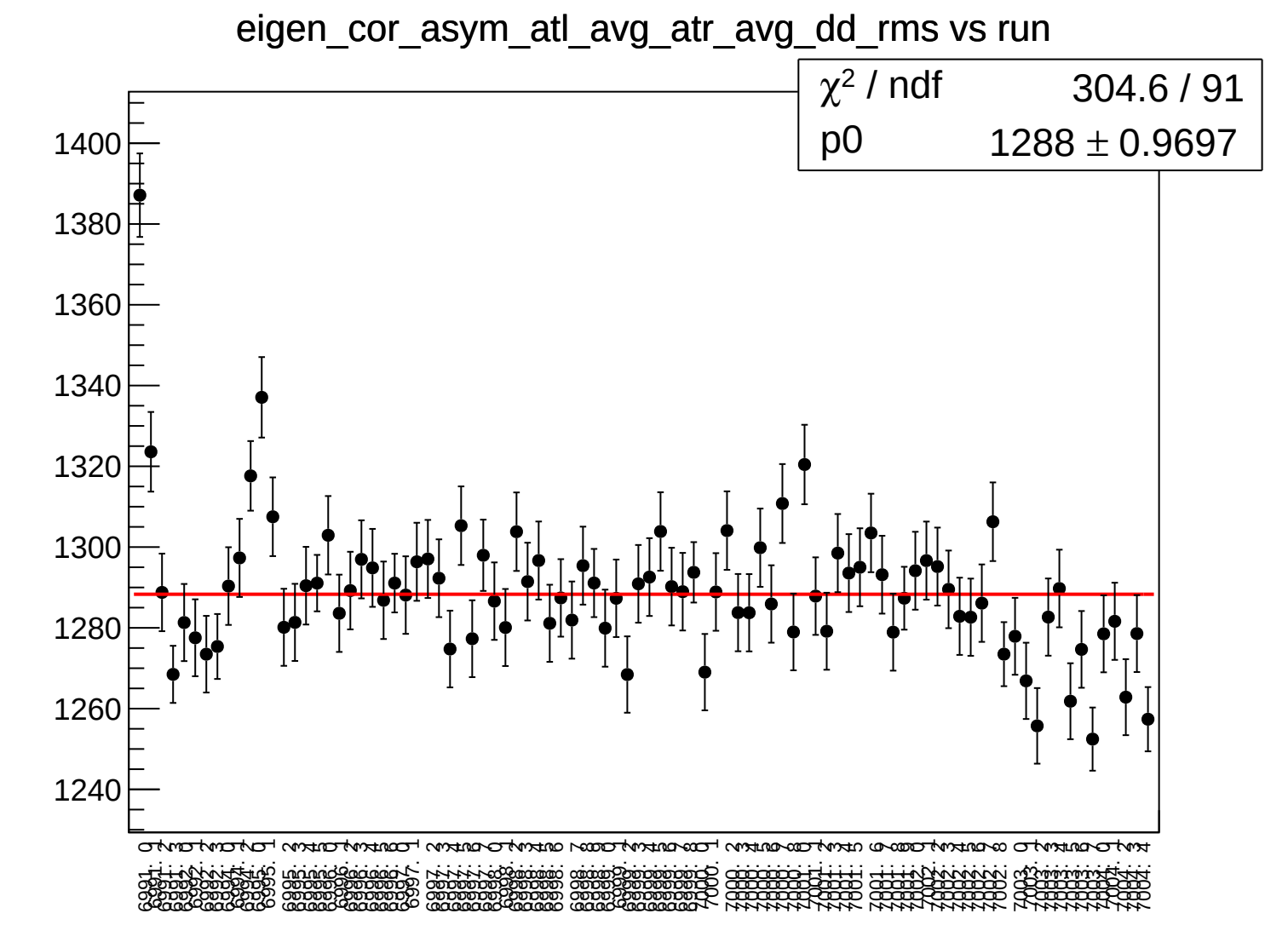

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 304.6 / 91
p0 1288 ± 0.9697
1400
1380
1360
1340
1320
1300
1280
1260
1240

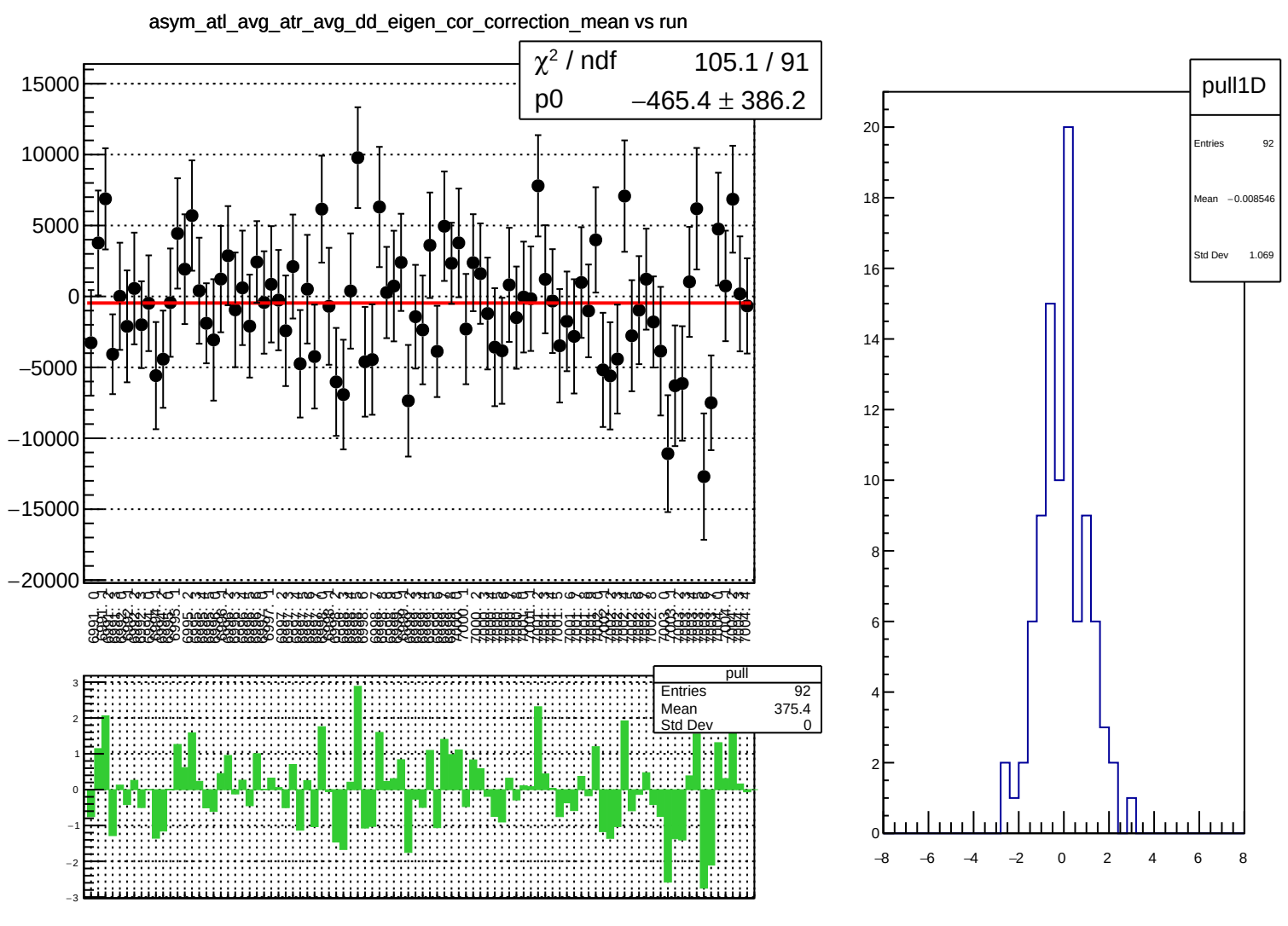

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 105.1 / 91
p0 −465.4 ± 386.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 375.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.008546
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

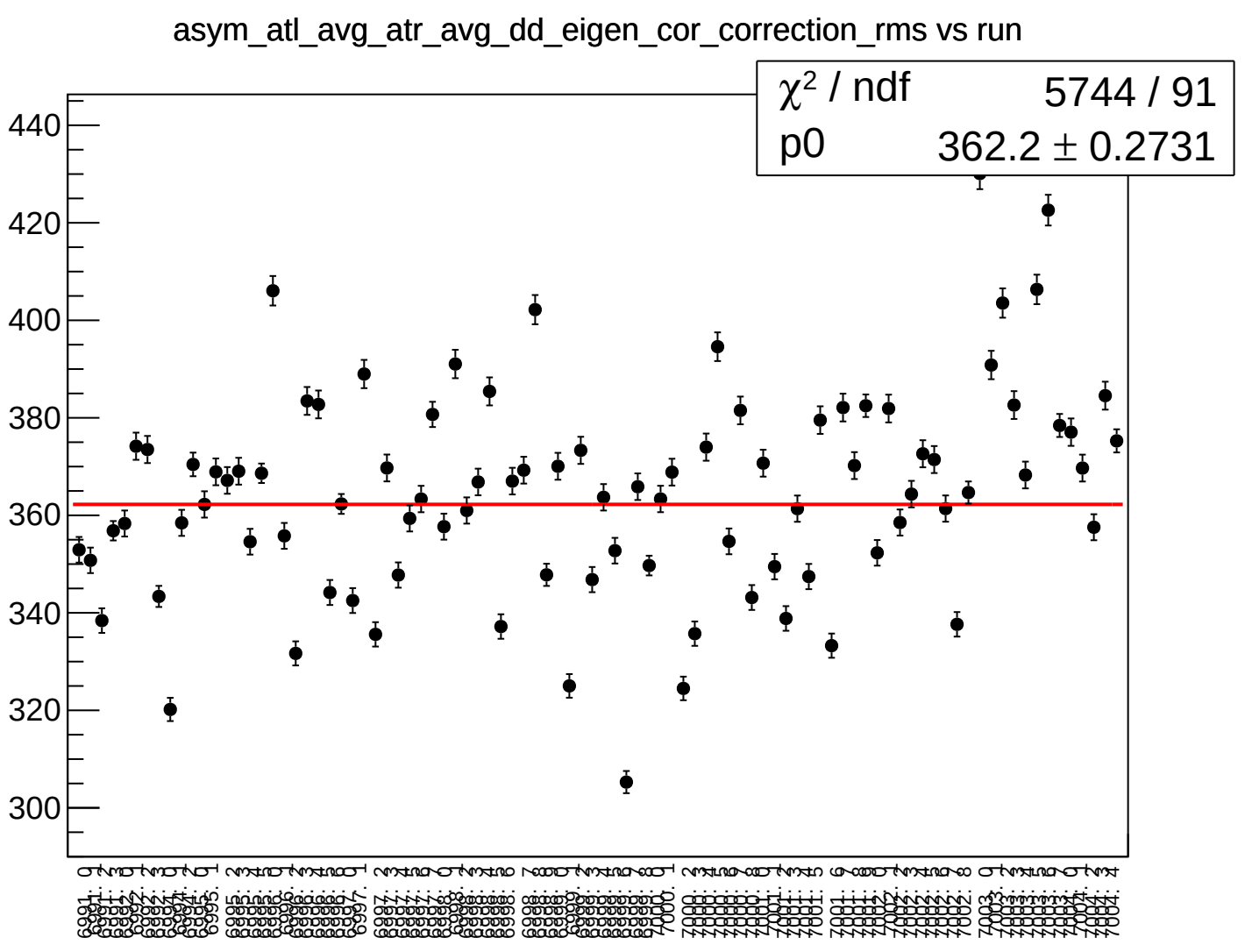

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 5744 / 91
p0 362.2 ± 0.2731
440
420
400
380
360
340
320
300

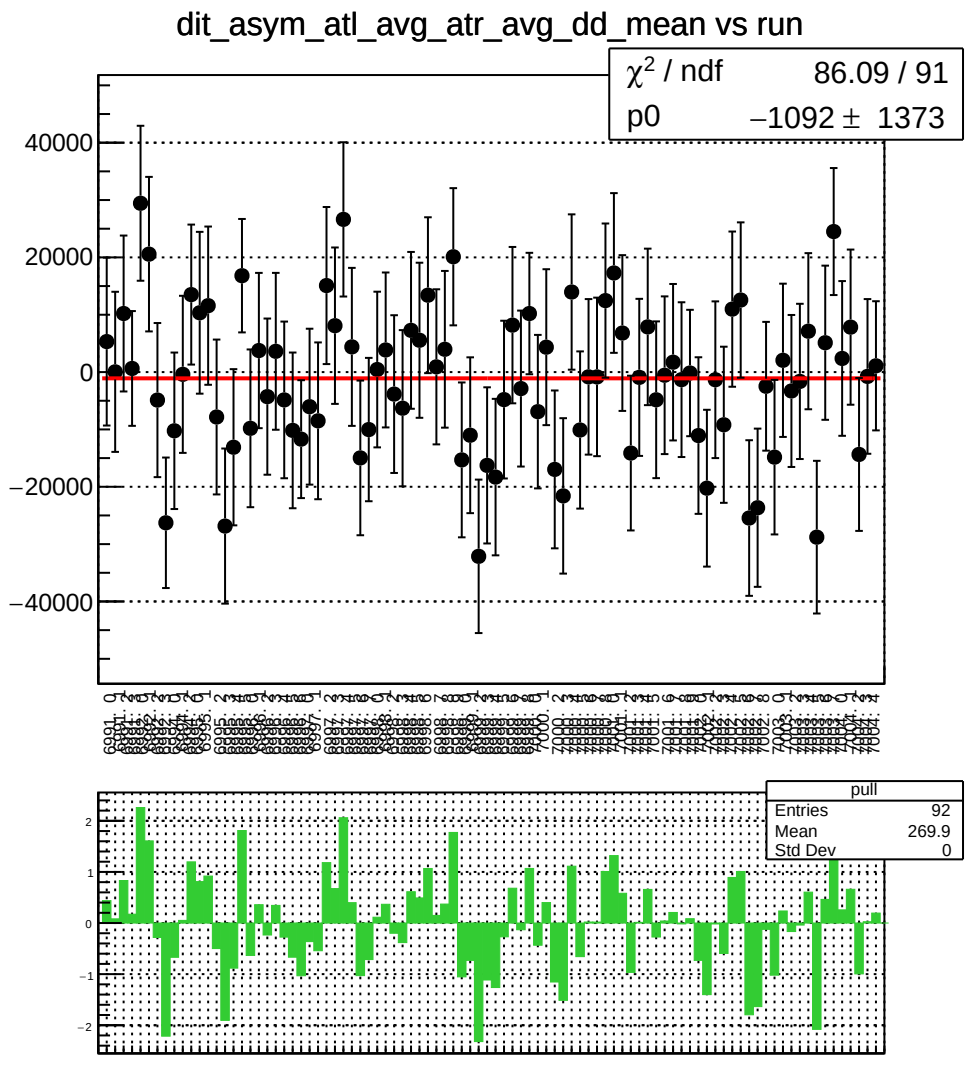

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 88.16 / 91
p0 −1079 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 247.3
Std Dev 0
2
1
0
−1
−2

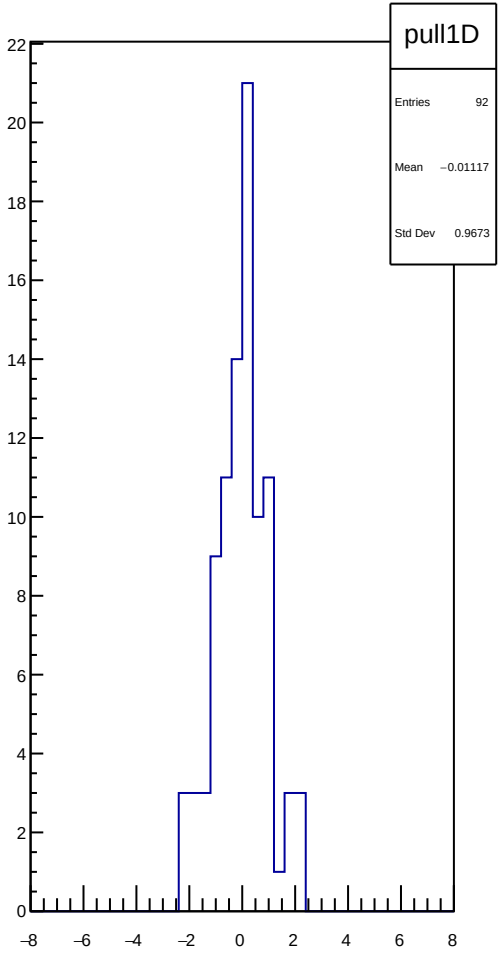

pull1D
Entries 92
Mean −0.01199
Std Dev 0.9789
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

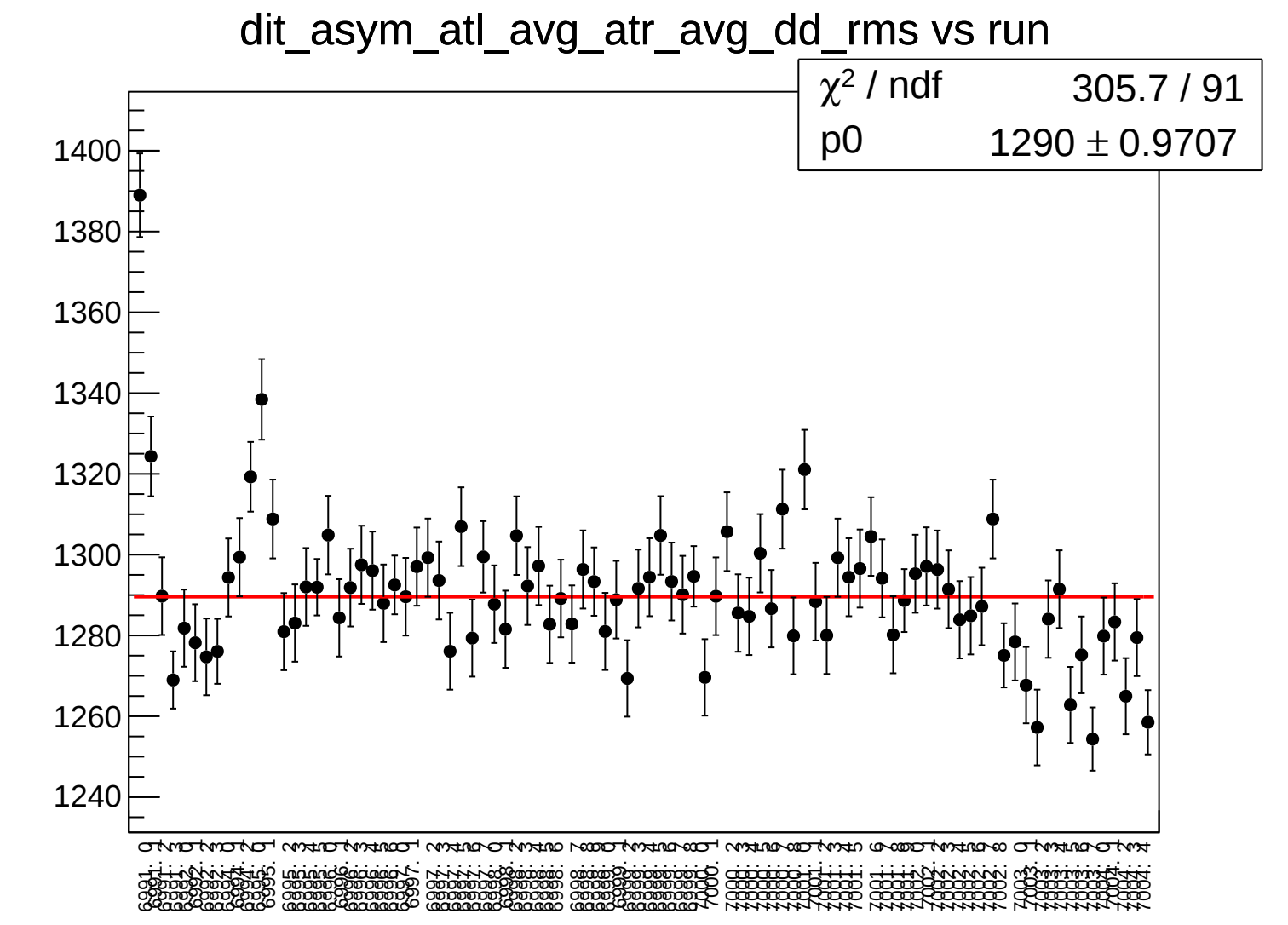

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 304.6 / 91
p0 1288 ± 0.9697
1400
1380
1360
1340
1320
1300
1280
1260
1240

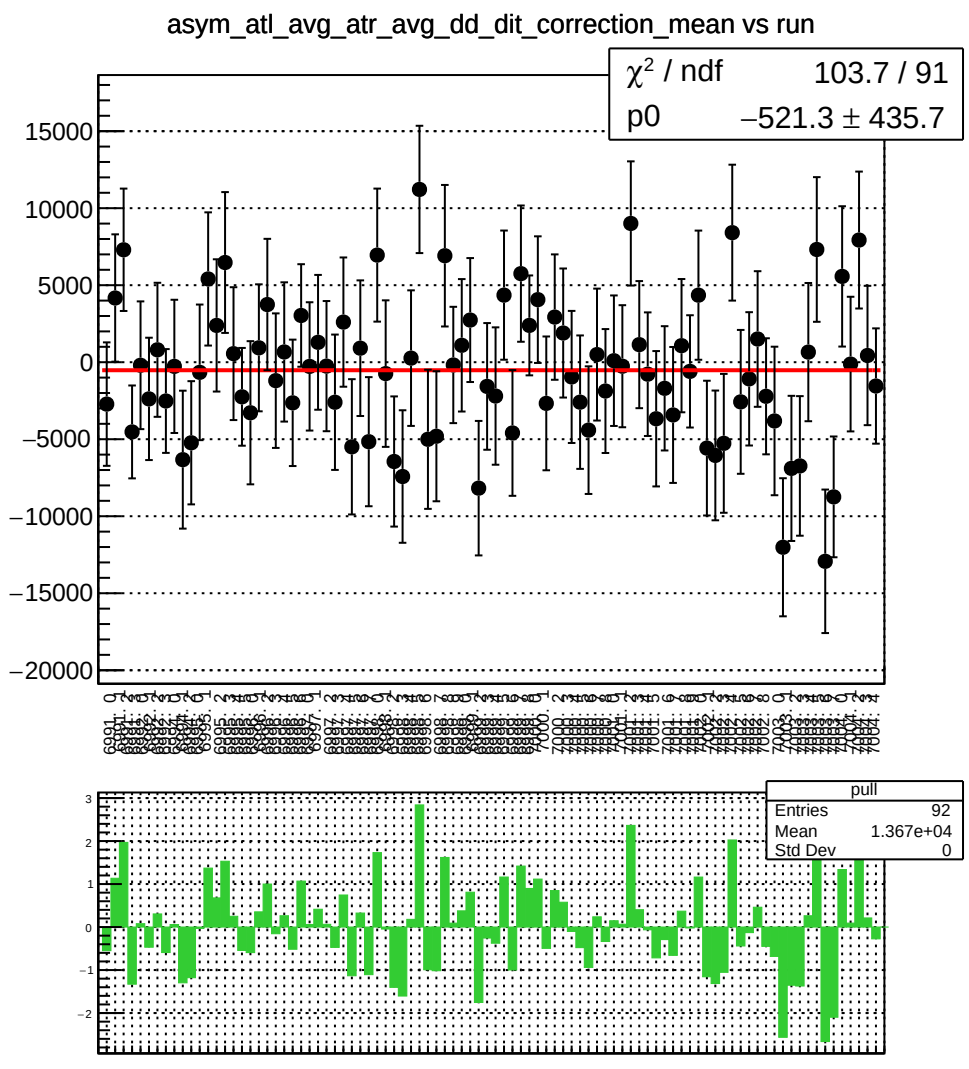

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.1 / 91
p0 −465.4 ± 386.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 375.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.008546
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

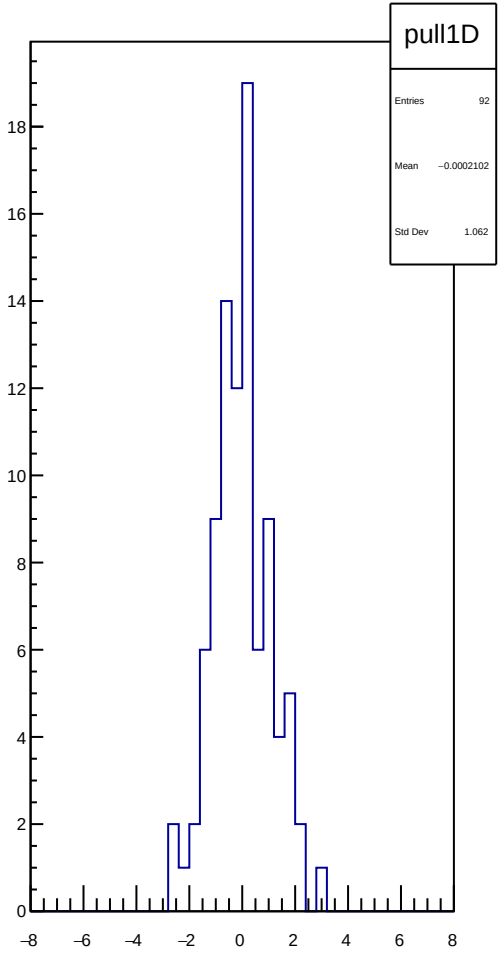

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5744 / 91
p0 362.2 ± 0.2731
440
420
400
380
360
340
320
300

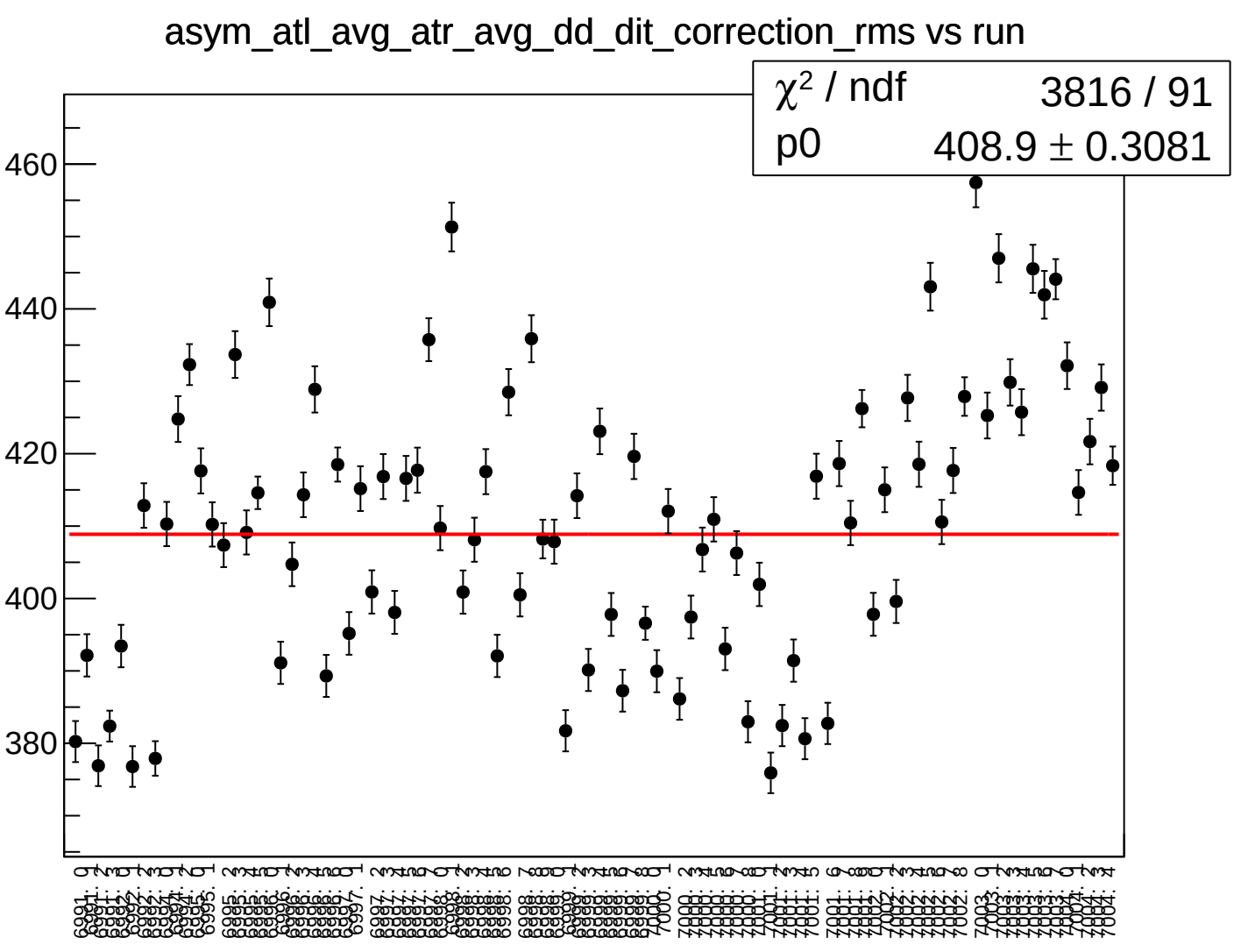

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 86.09 / 91
p0 −1092 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 269.9
Std Dev 0
2
1
0
−1
−2

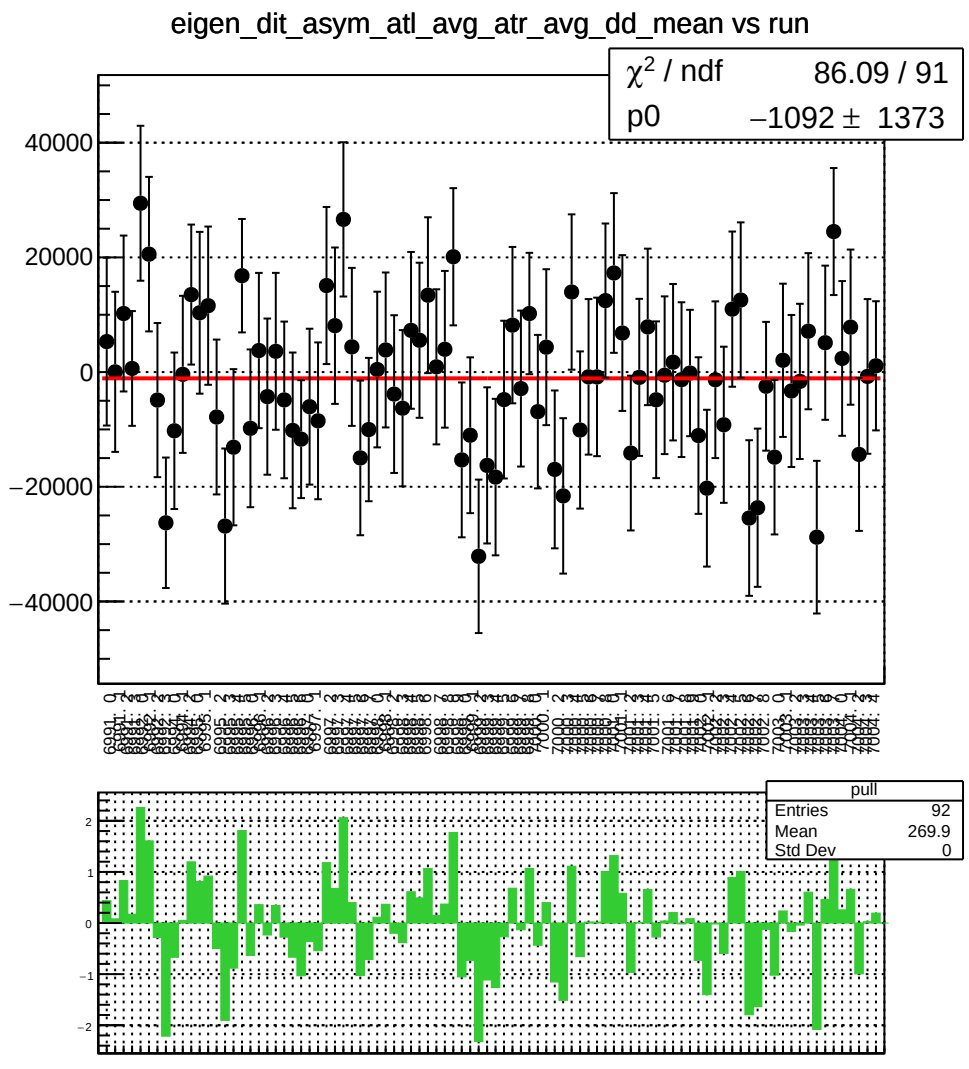

pull1D
Entries 92
Mean −0.01117
Std Dev 0.9673
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

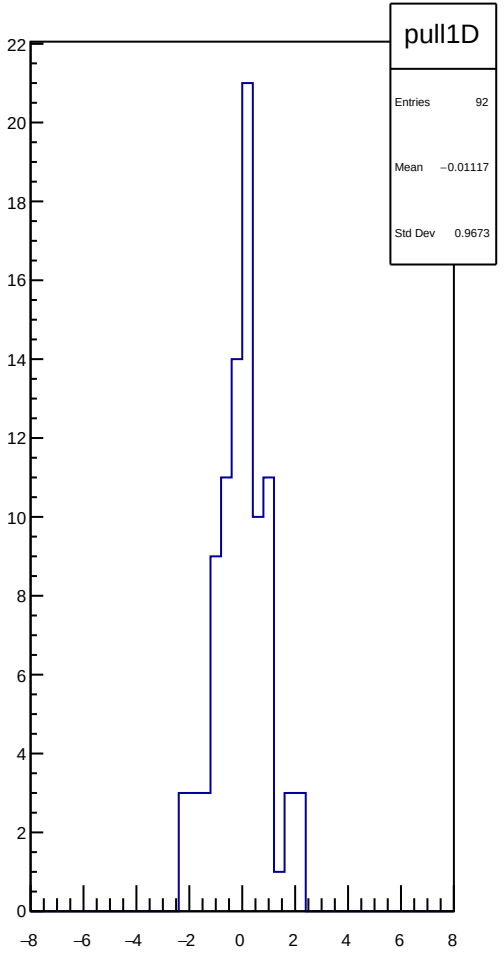

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 305.7 / 91
p0 1290 ± 0.9707
1400
1380
1360
1340
1320
1300
1280
1260
1240

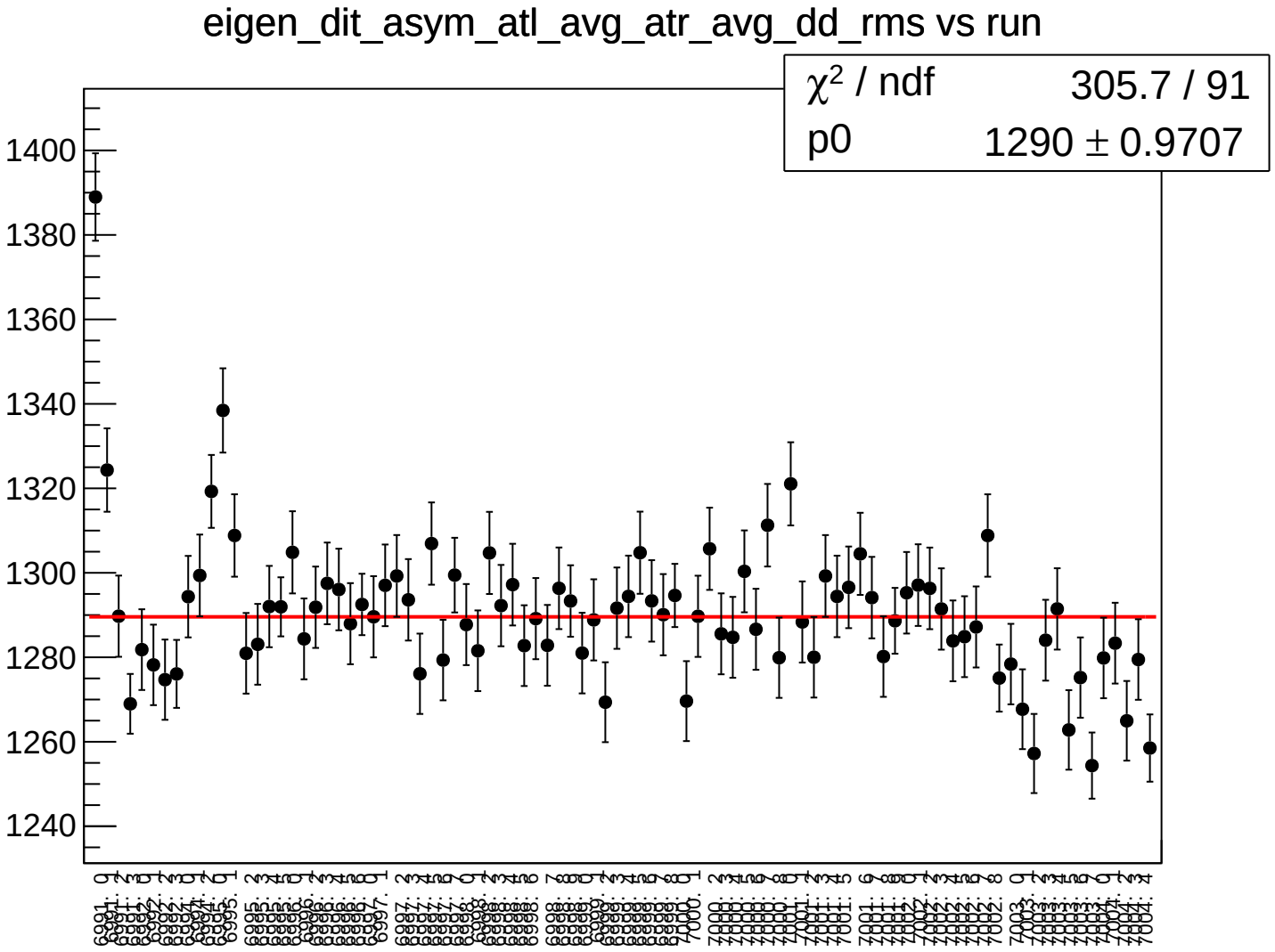

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 103.7 / 91
p0 −521.3 ± 435.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 1.367e+04
Std Dev 0
3
2
1
0
−1
−2

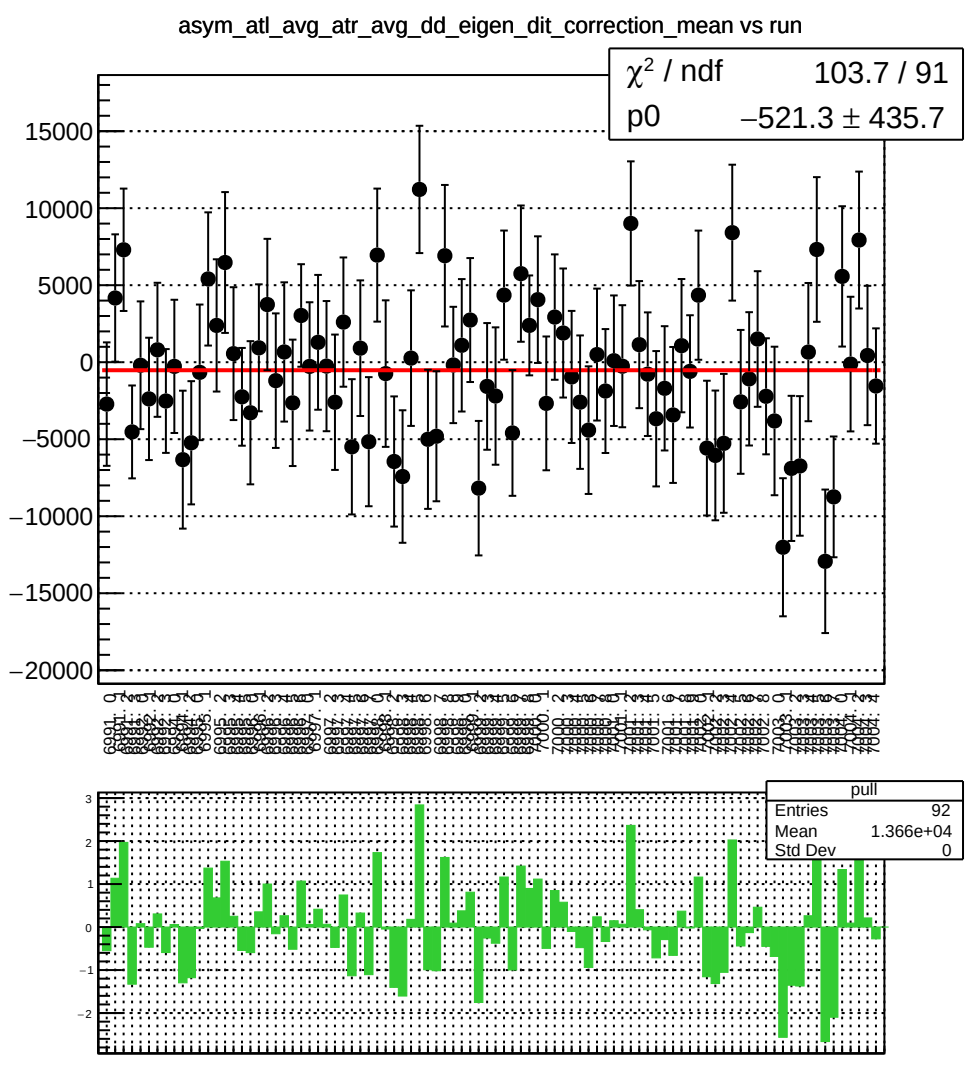

pull1D
Entries 92
Mean −0.0002102
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

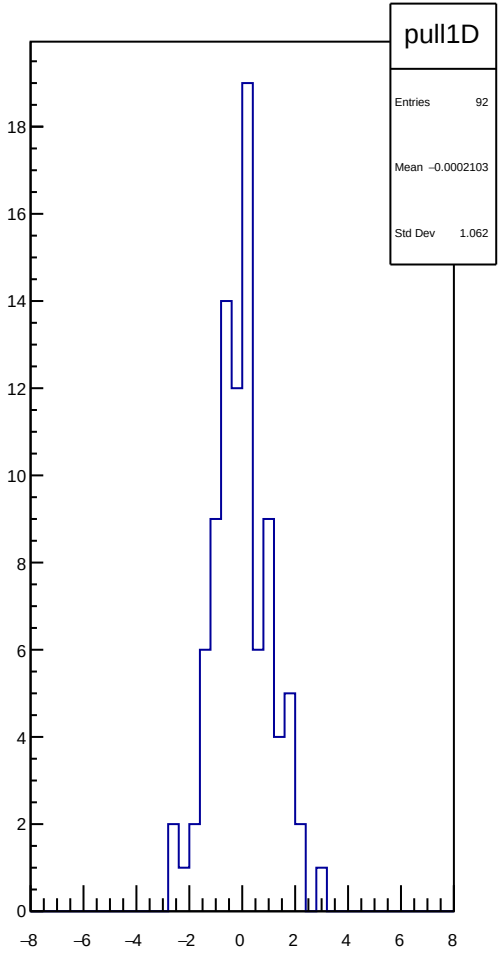

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3816 / 91
p0 408.9 ± 0.3081
460
440
420
400
380

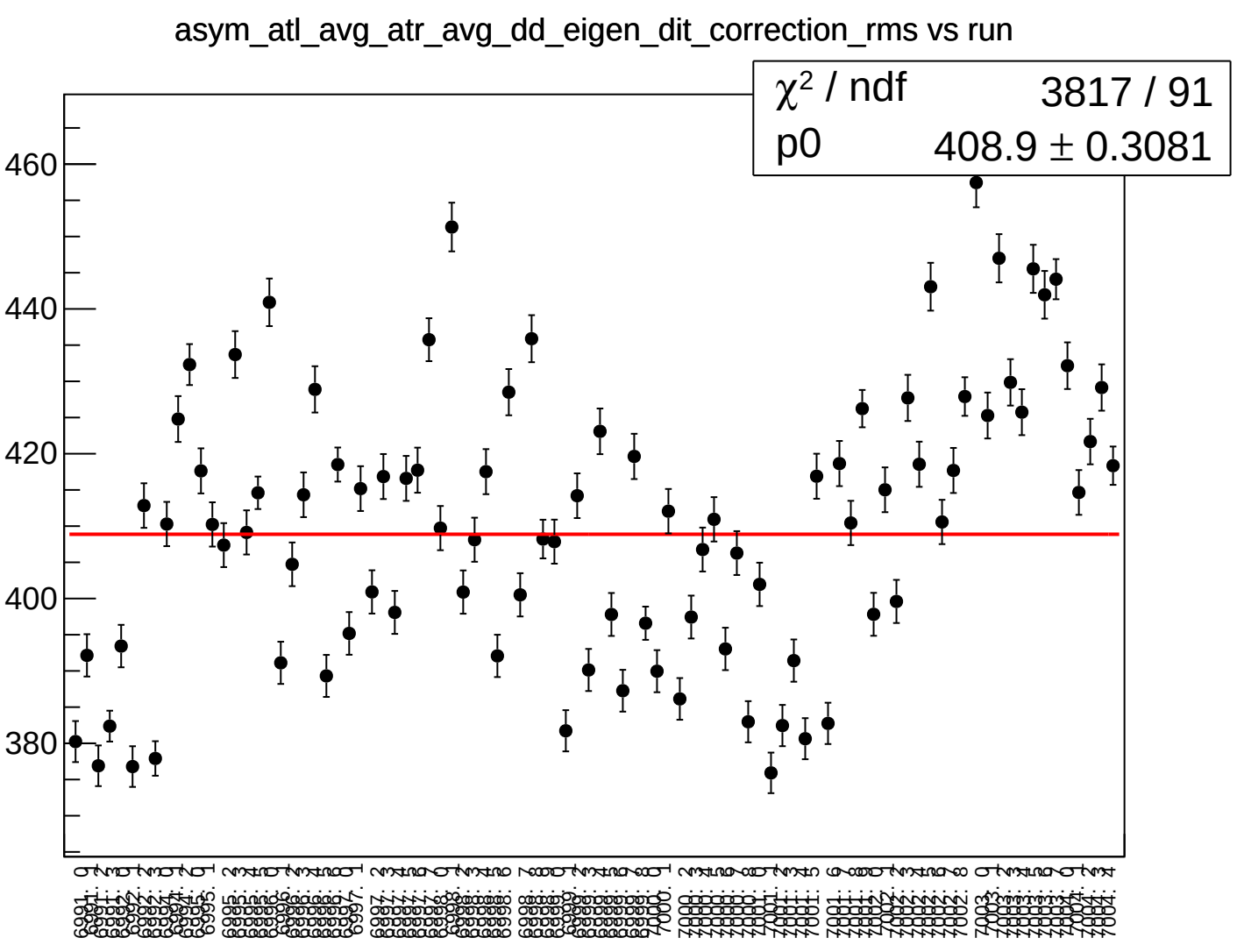

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 86.09 / 91
p0 −1092 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 269.9
Std Dev 0
2
1
0
−1
−2

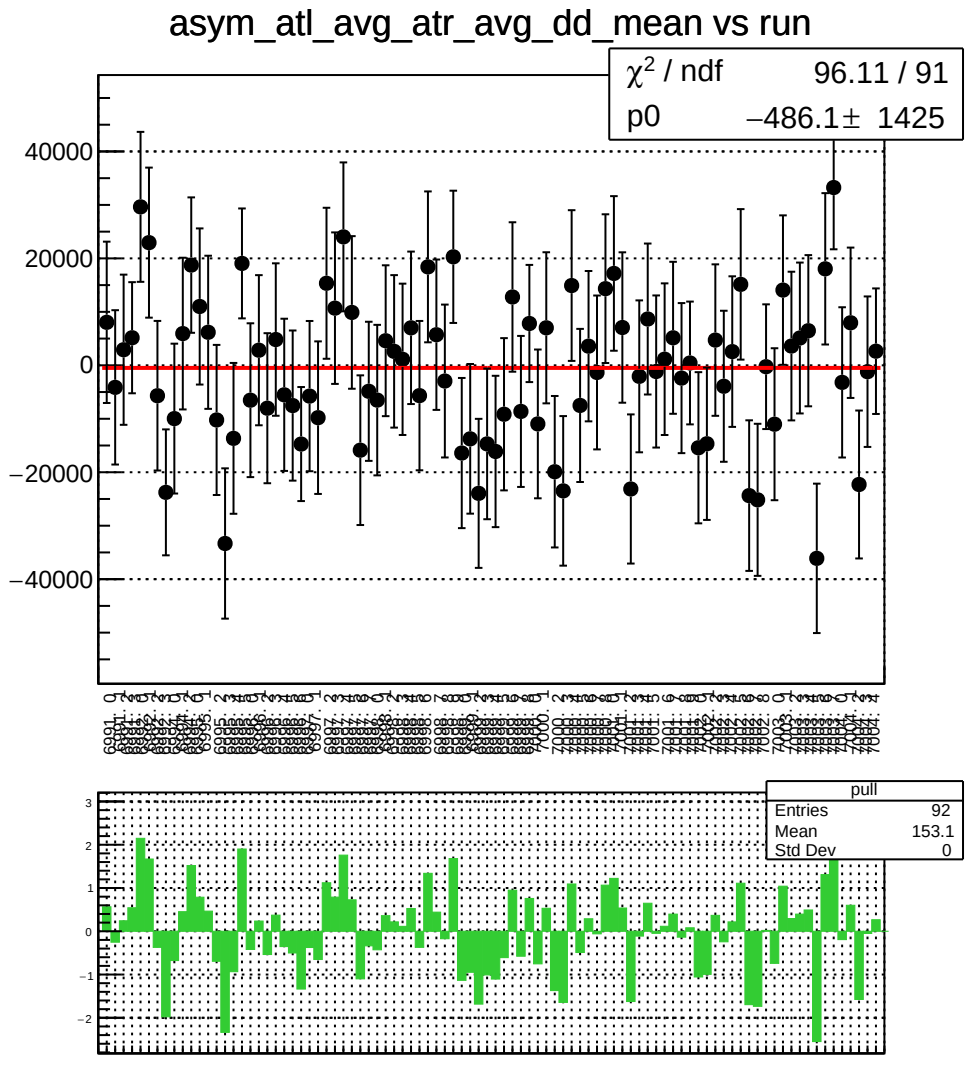

pull1D
Entries 92
Mean −0.01117
Std Dev 0.9673
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

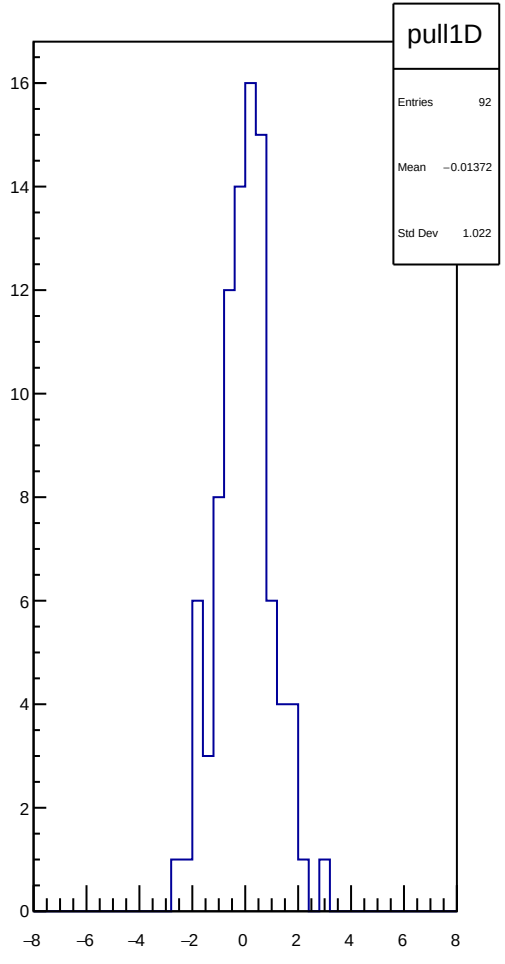

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 305.7 / 91
p0 1290 ± 0.9707
1400
1380
1360
1340
1320
1300
1280
1260
1240

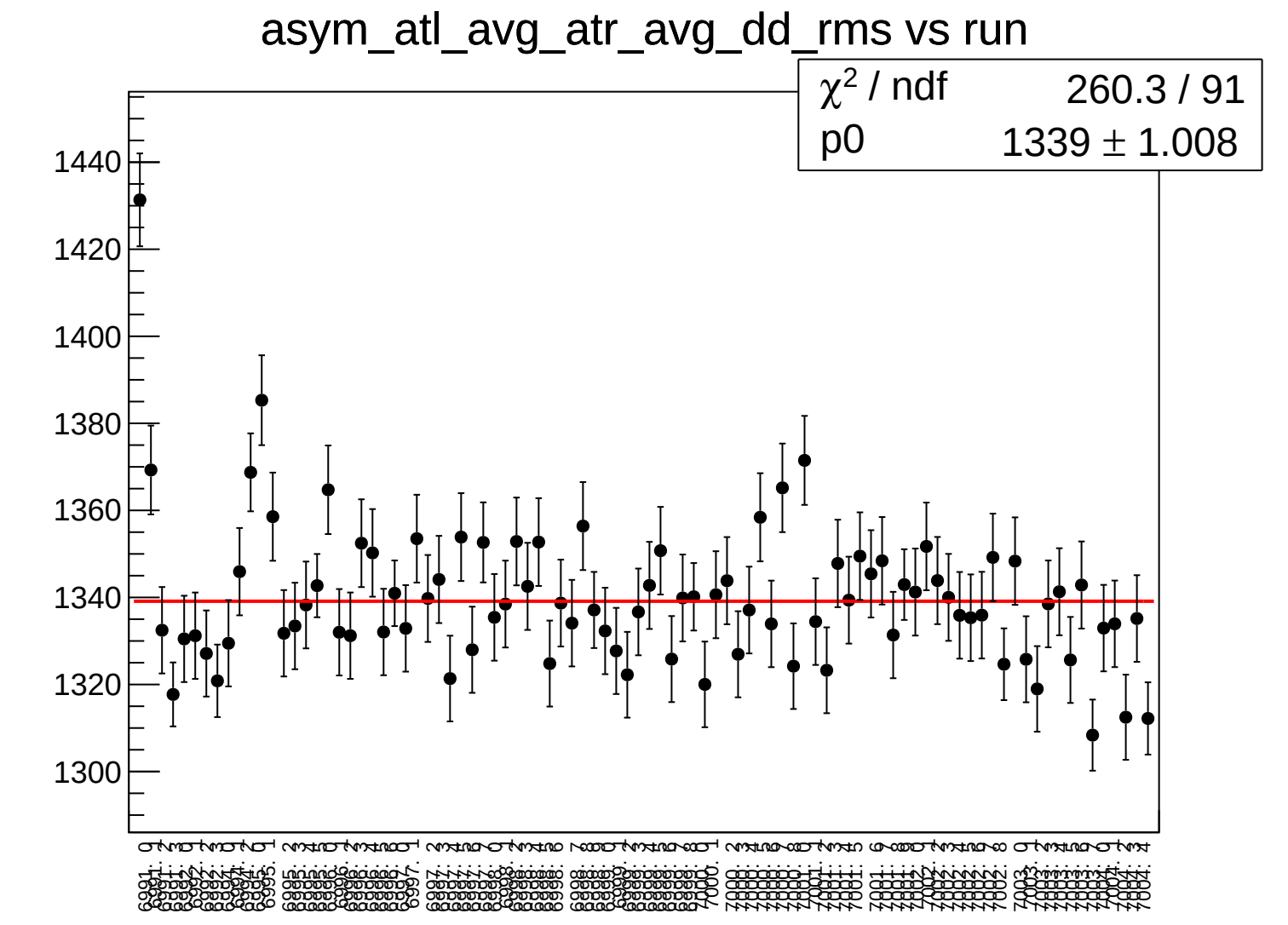

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.7 / 91
p0 −521.3 ± 435.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 1.366e+04
Std Dev 0
3
2
1
0
−1
−2

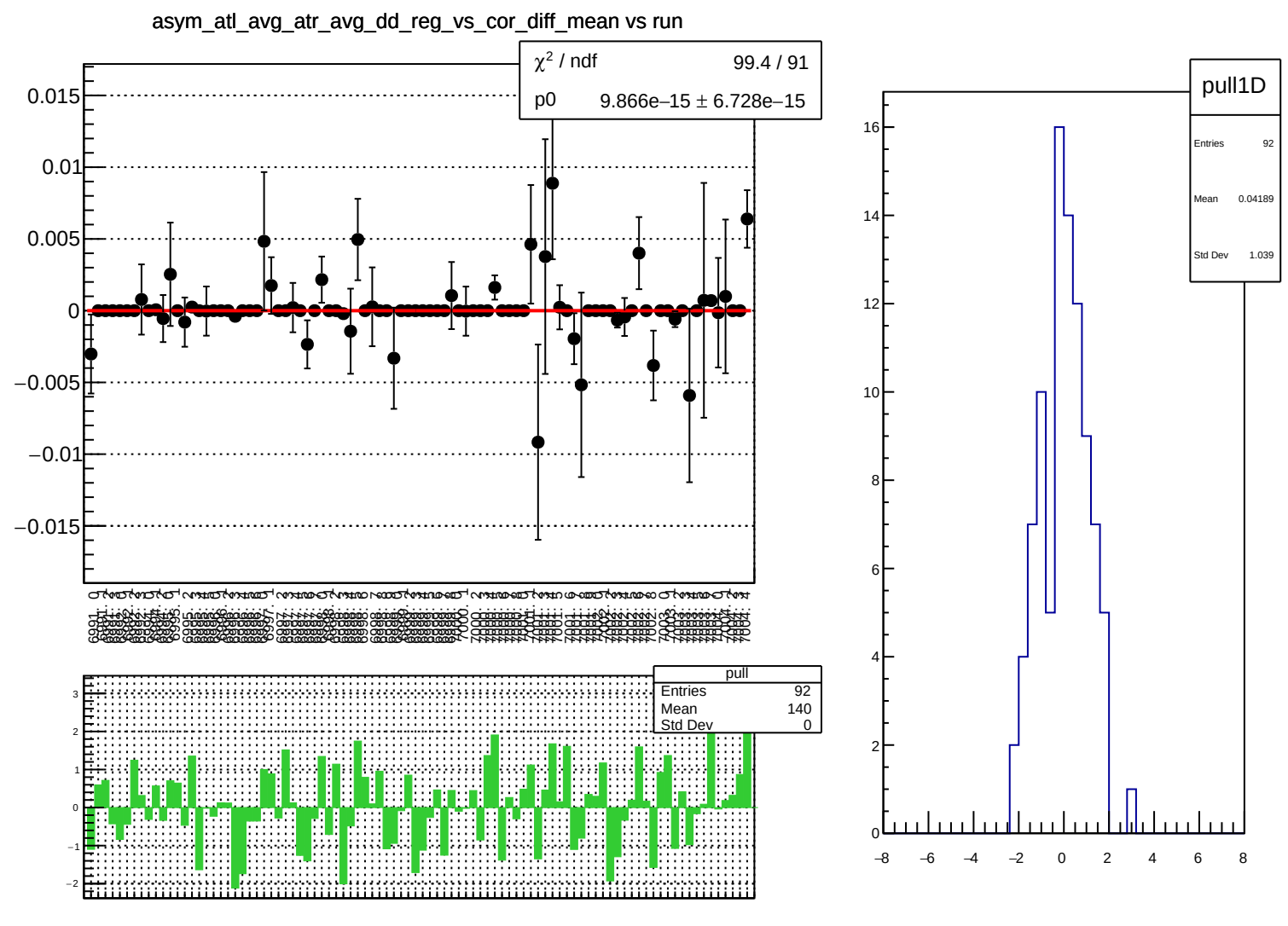

pull1D
Entries 92
Mean −0.0002103
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

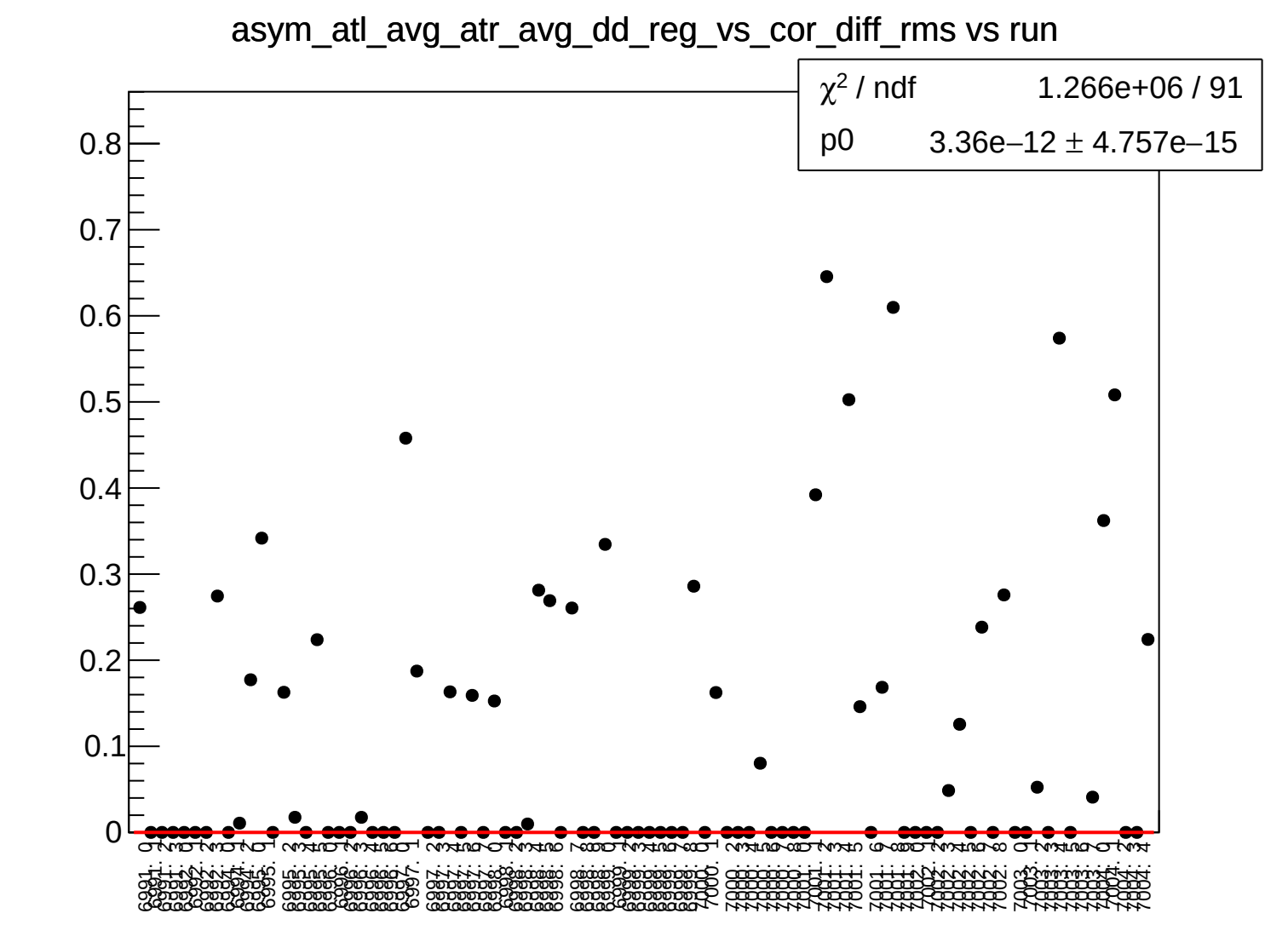

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3817 / 91
p0 408.9 ± 0.3081
460
440
420
400
380

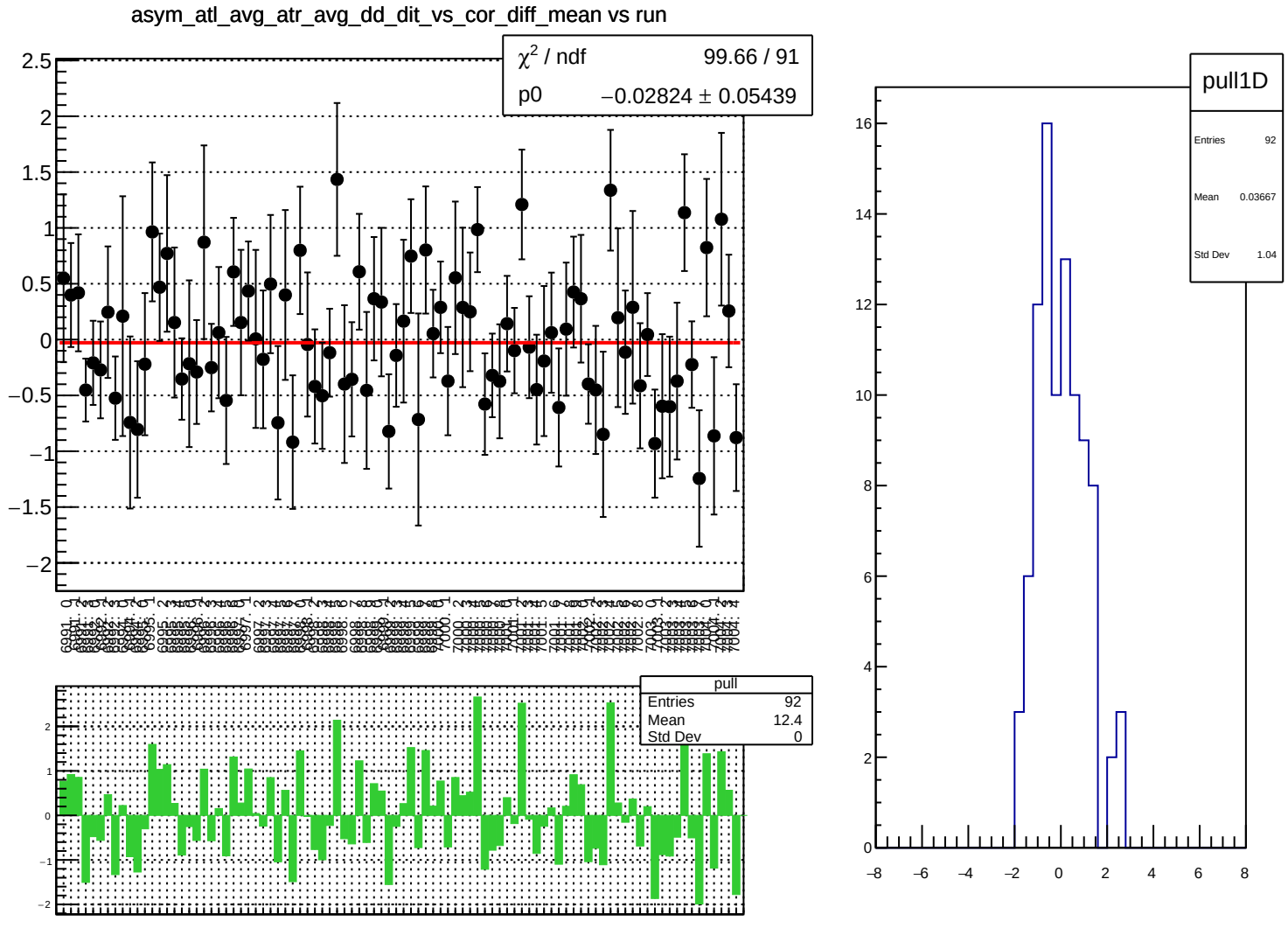

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.11 / 91
p0 −486.1± 1425
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 153.1
Std Dev 0
3
2
1
0
−1
−2

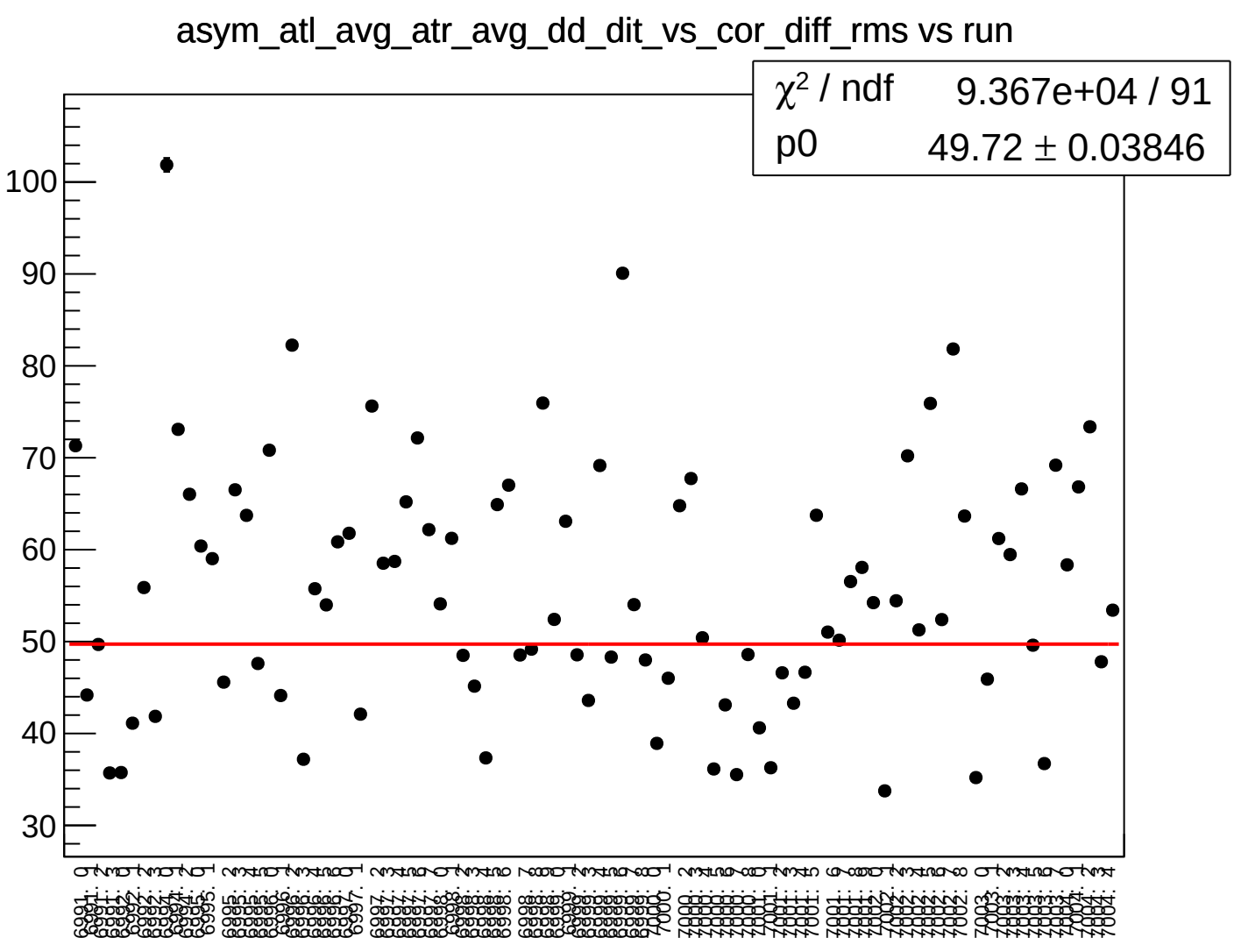

pull1D
Entries 92
Mean −0.01372
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

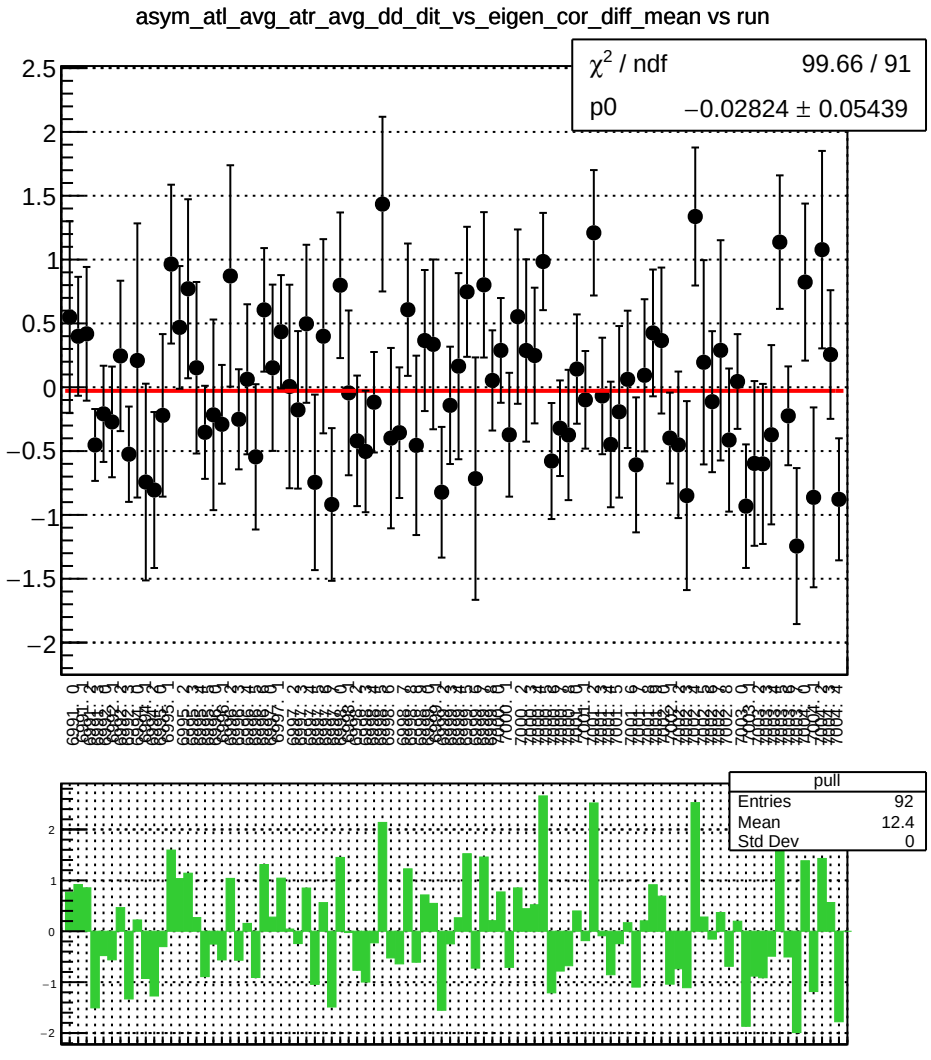

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 260.3 / 91
p0 1339 ± 1.008
1440
1420
1400
1380
1360
1340
1320
1300

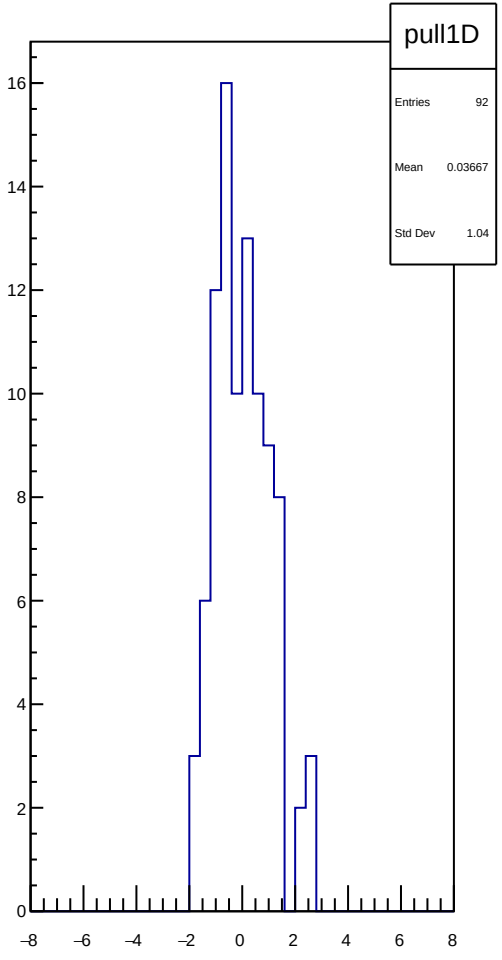

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.4 / 91
p0 9.866e−15 ± 6.728e−15
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 140
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.04189
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

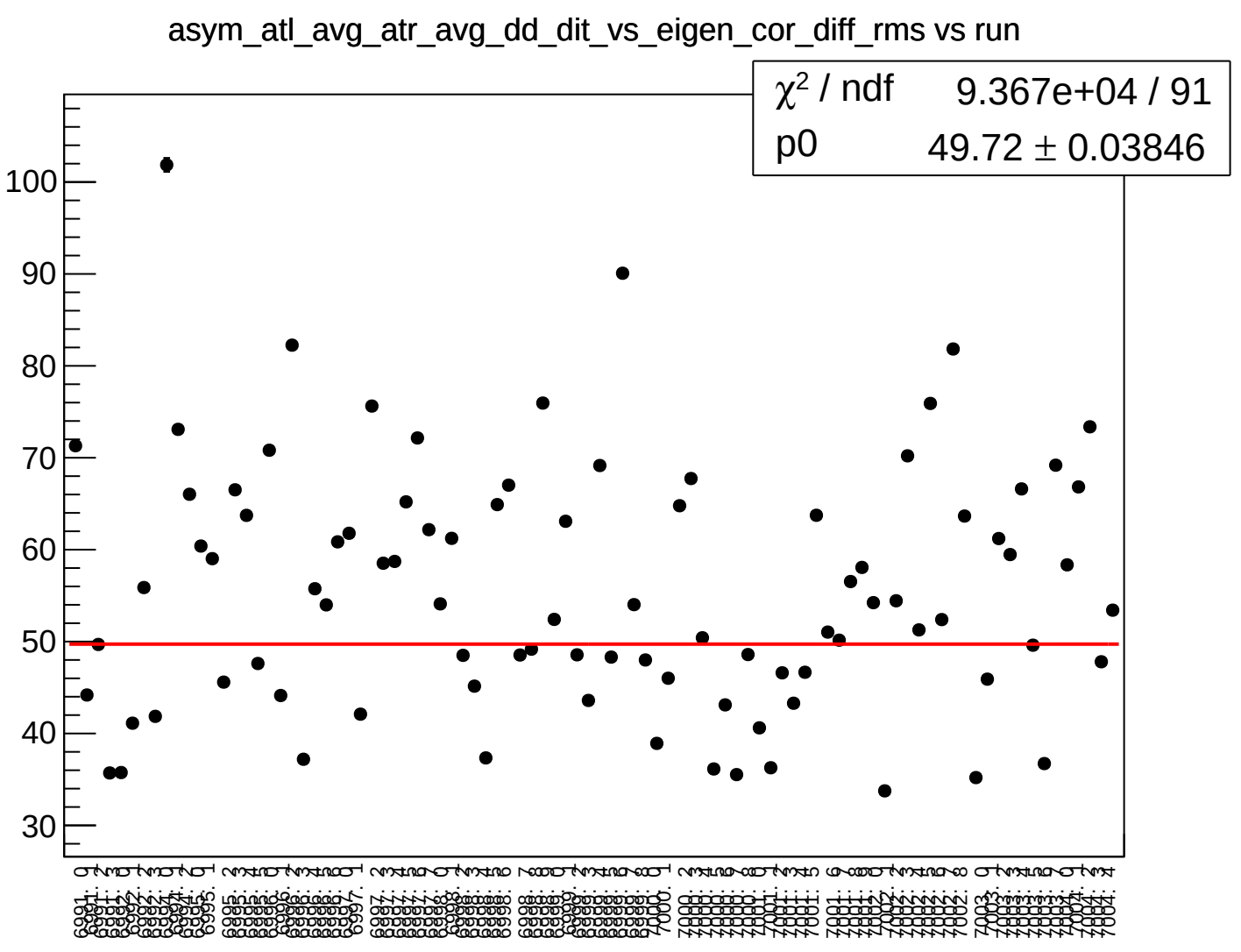

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.266e+06 / 91
p0 3.36e−12 ± 4.757e−15
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

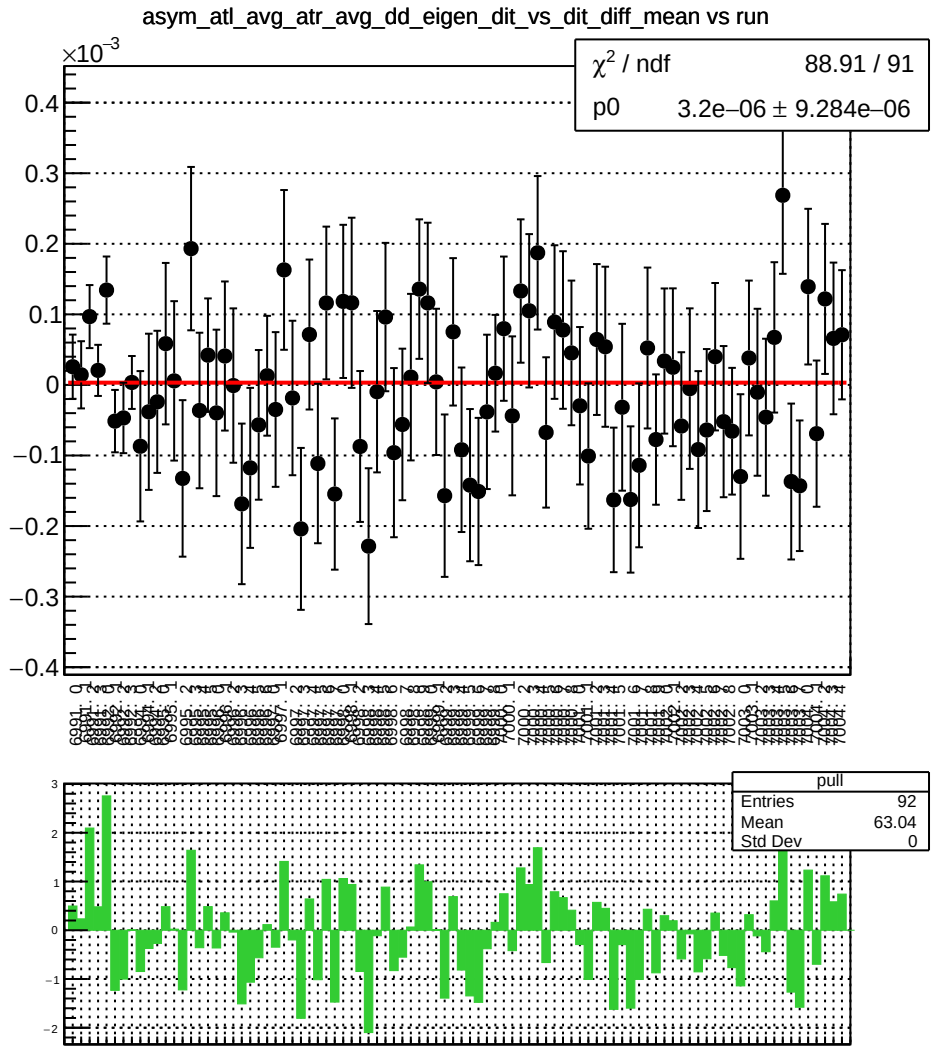

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.66 / 91
p0 −0.02824 ± 0.05439
pull
Entries 92
Mean 12.4
Std Dev 0
pull1D
Entries 92
Mean 0.03667
Std Dev 1.04

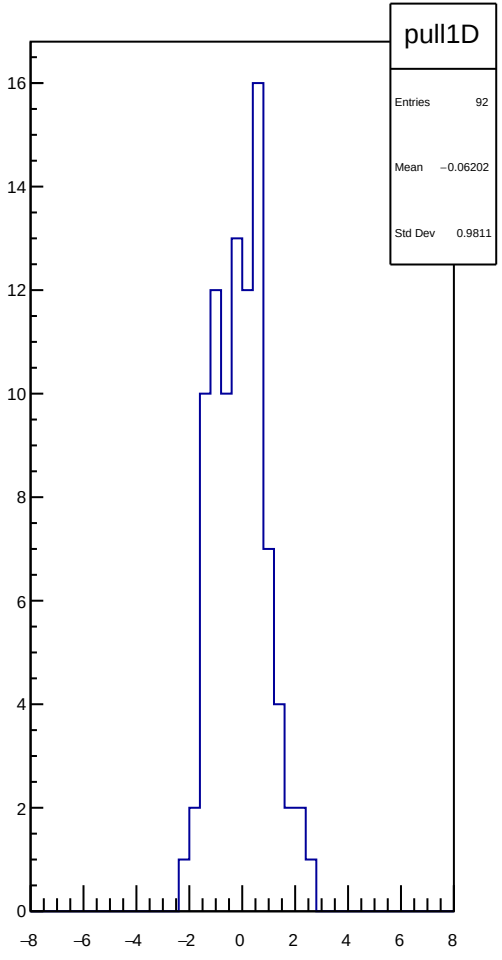

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.367e+04 / 91
p0 49.72 ± 0.03846
100
90
80
70
60
50
40
30

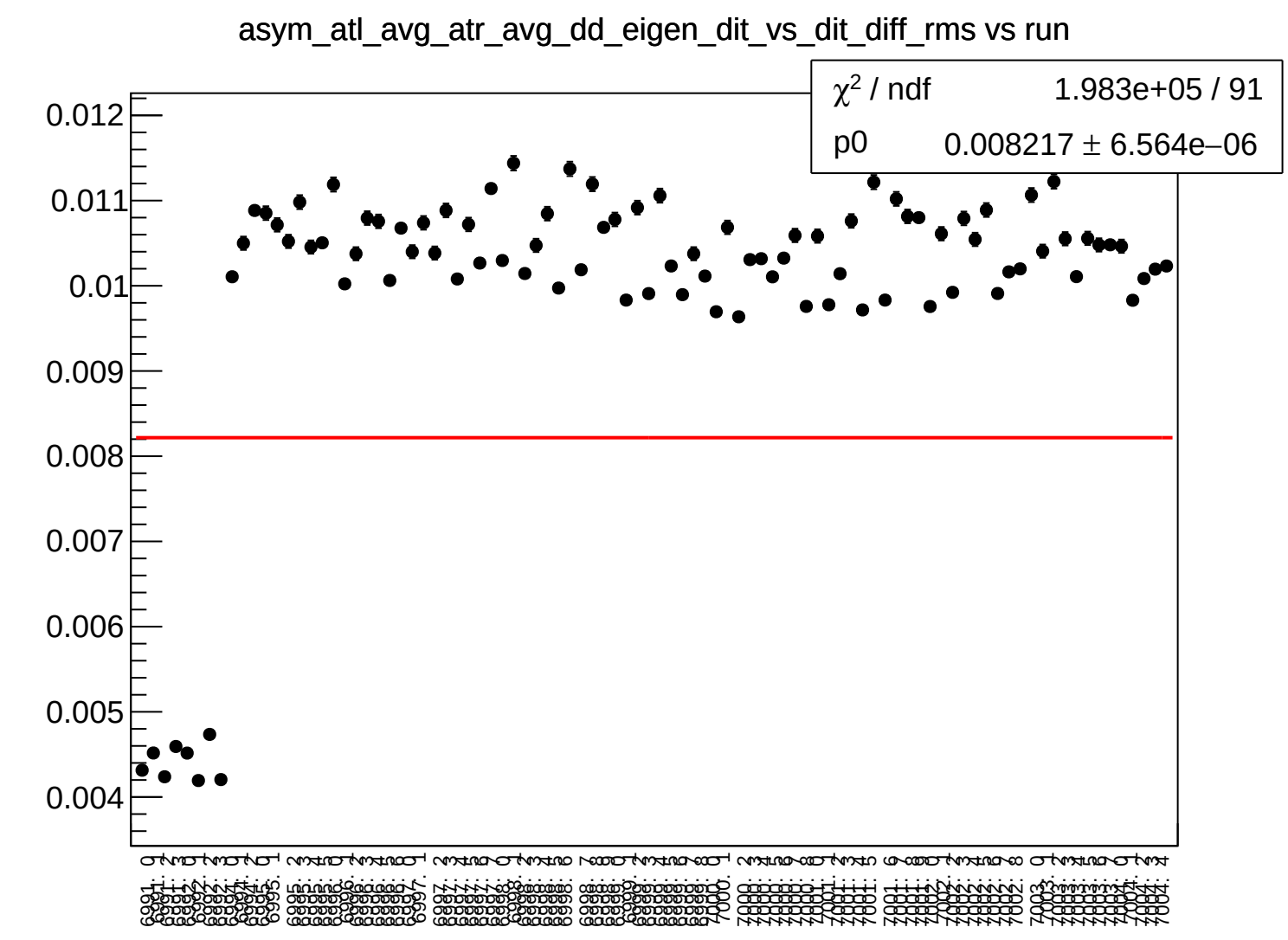

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.66 / 91
p0 −0.02824 ± 0.05439
pull
Entries 92
Mean 12.4
Std Dev 0

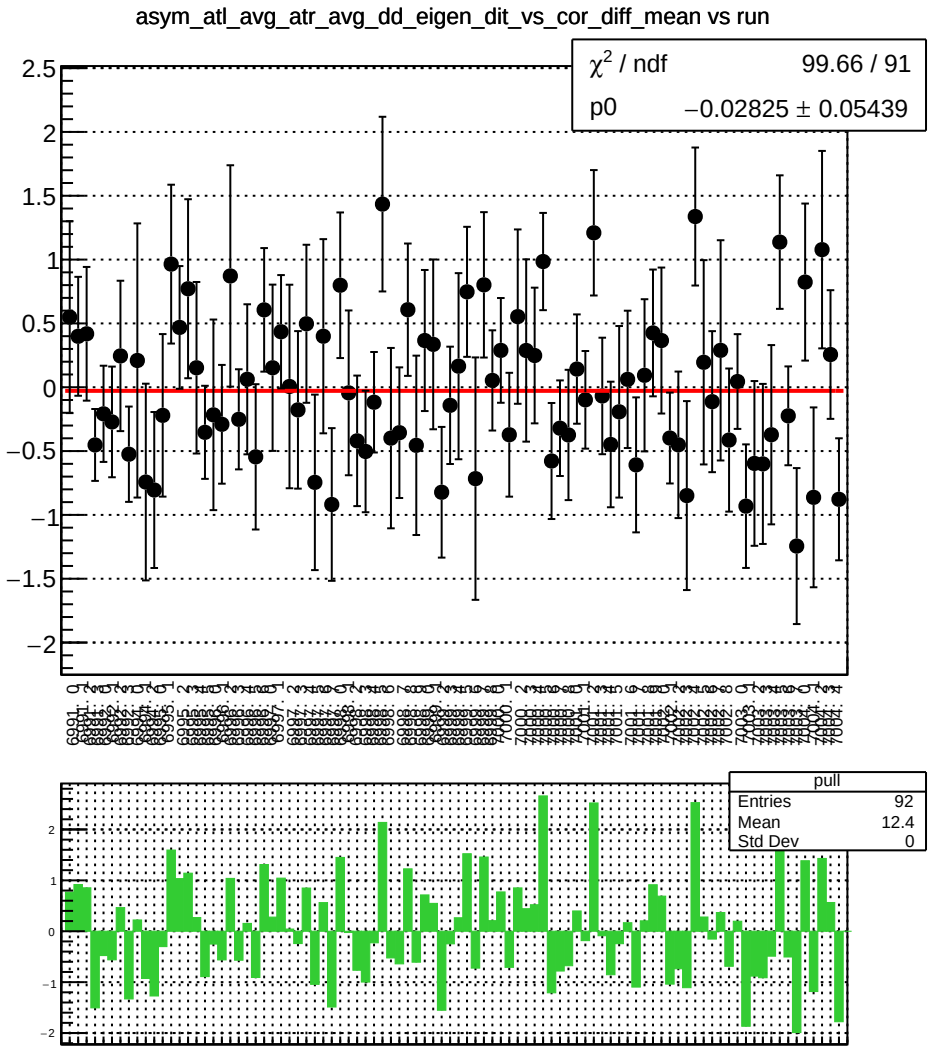

pull1D
Entries 92
Mean 0.03667
Std Dev 1.04

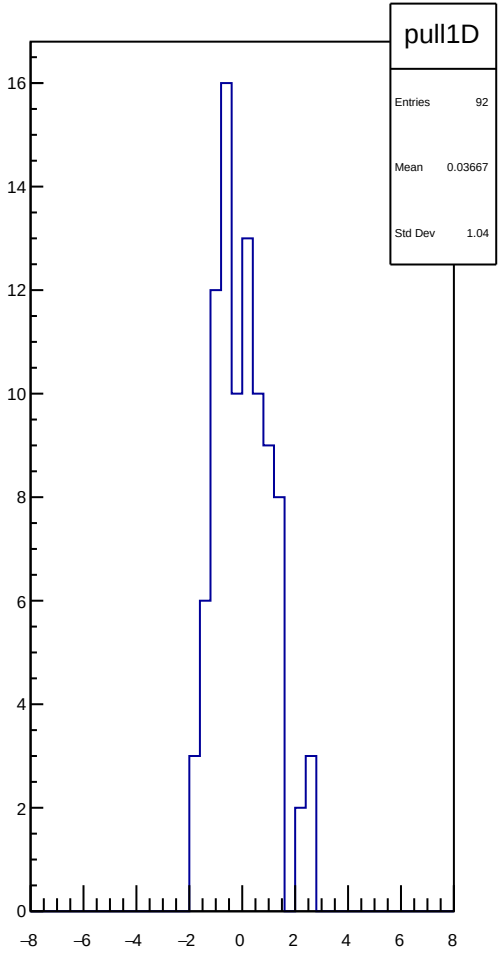

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.367e+04 / 91
p0 49.72 ± 0.03846
100
90
80
70
60
50
40
30

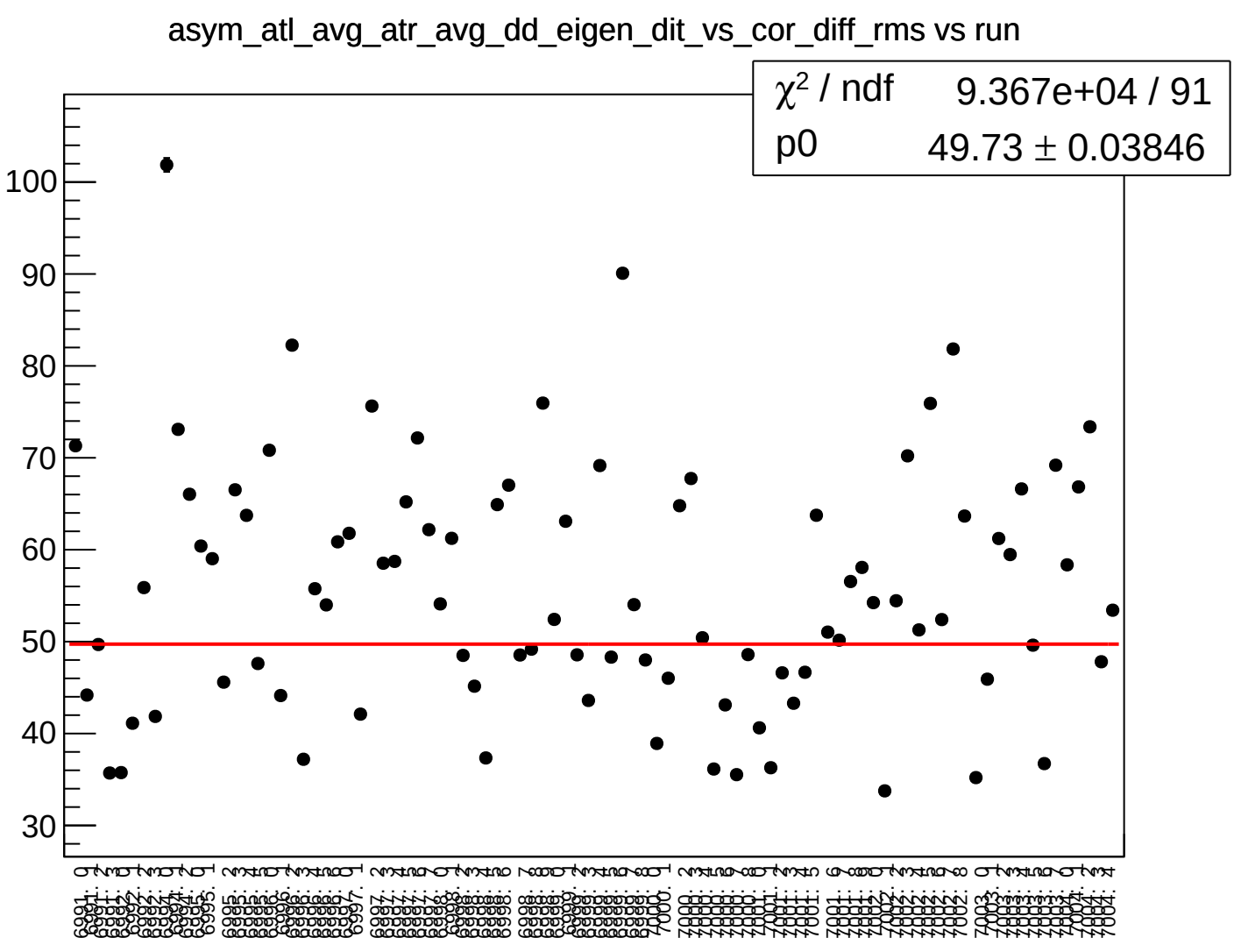

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.91 / 91
p0 3.2e−06 ± 9.284e−06
pull
Entries 92
Mean 63.04
Std Dev 0

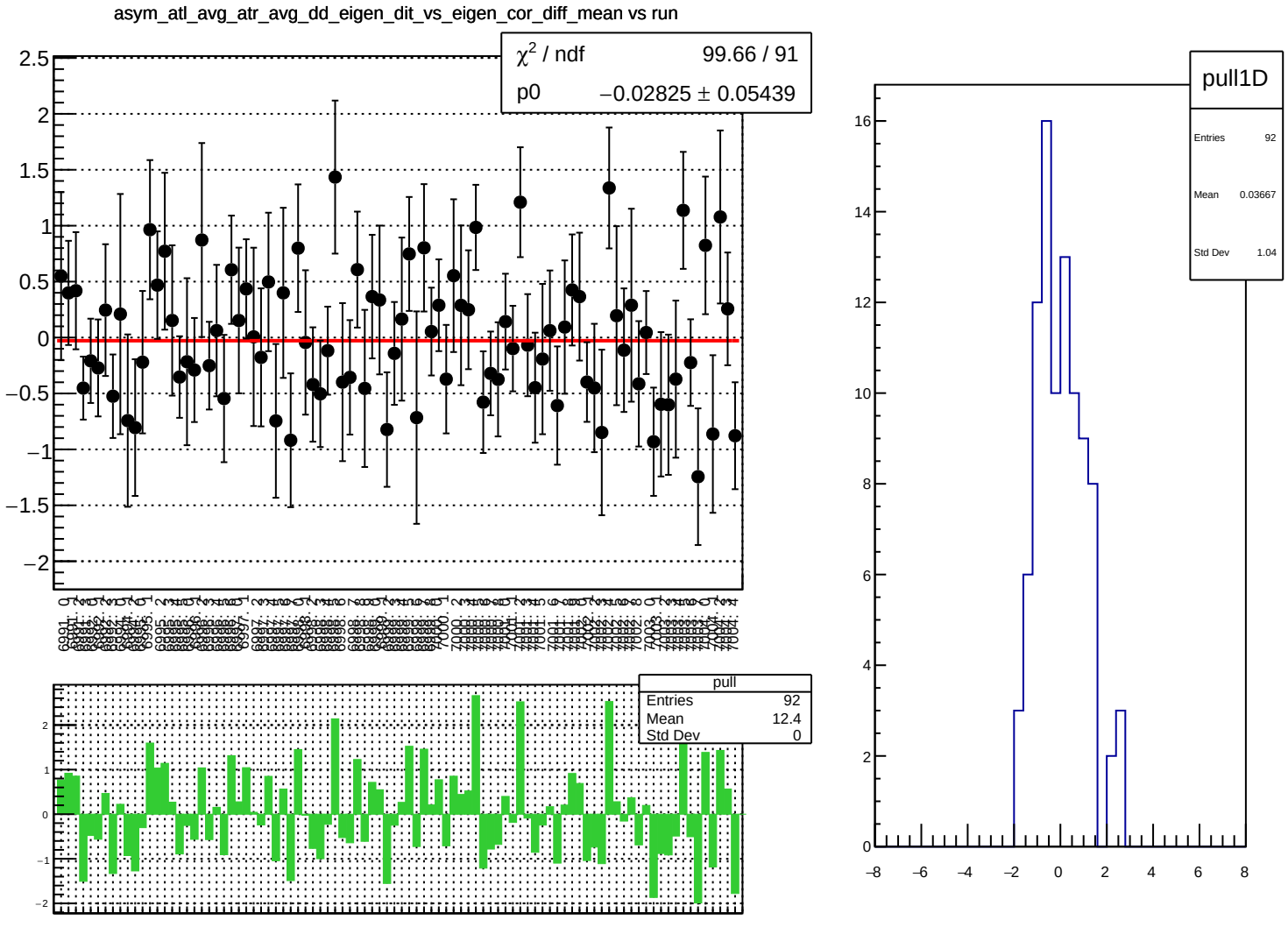

pull1D
Entries 92
Mean −0.06202
Std Dev 0.9811

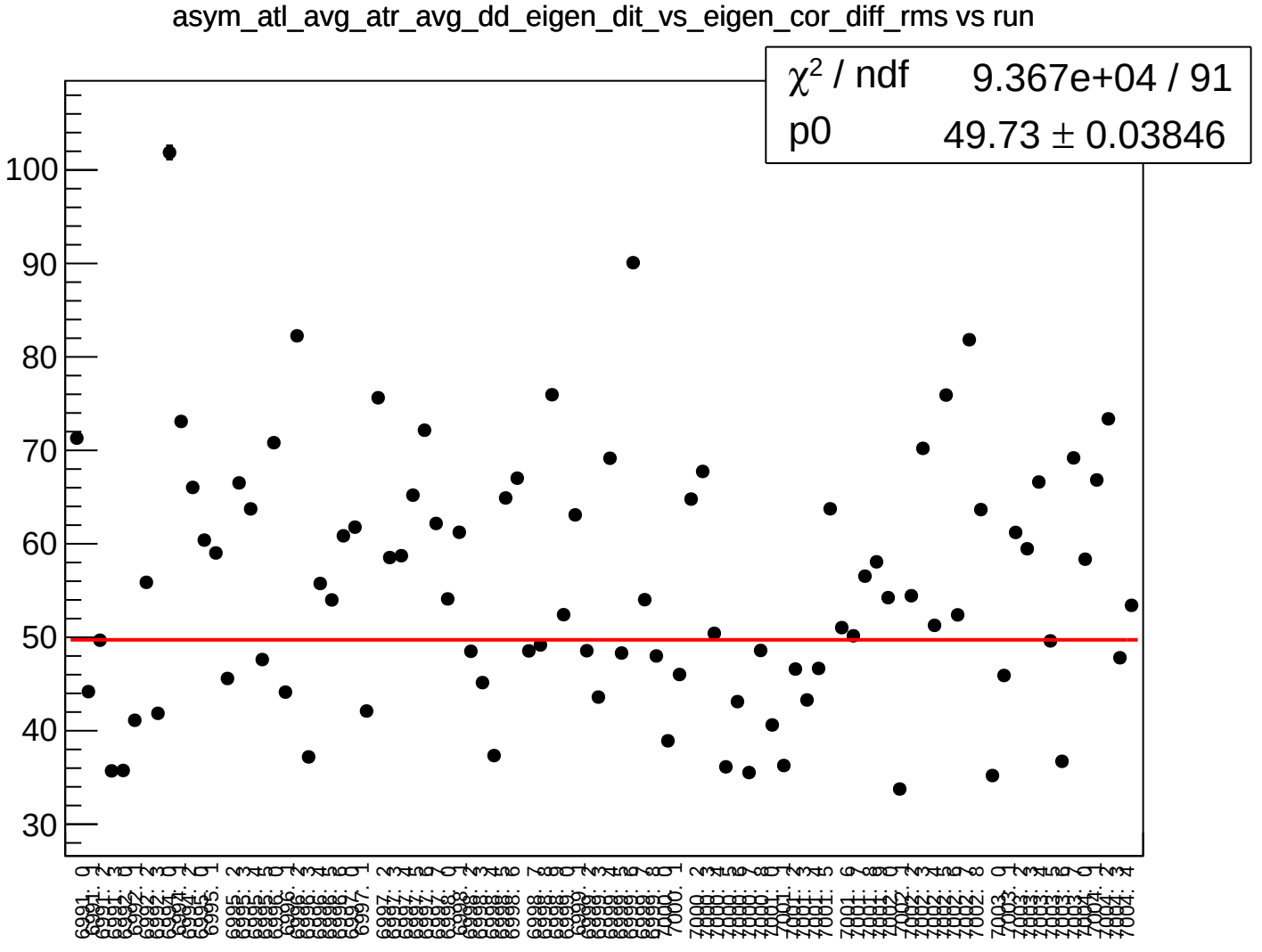

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.983e+05 / 91
p0 0.008217 ± 6.564e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

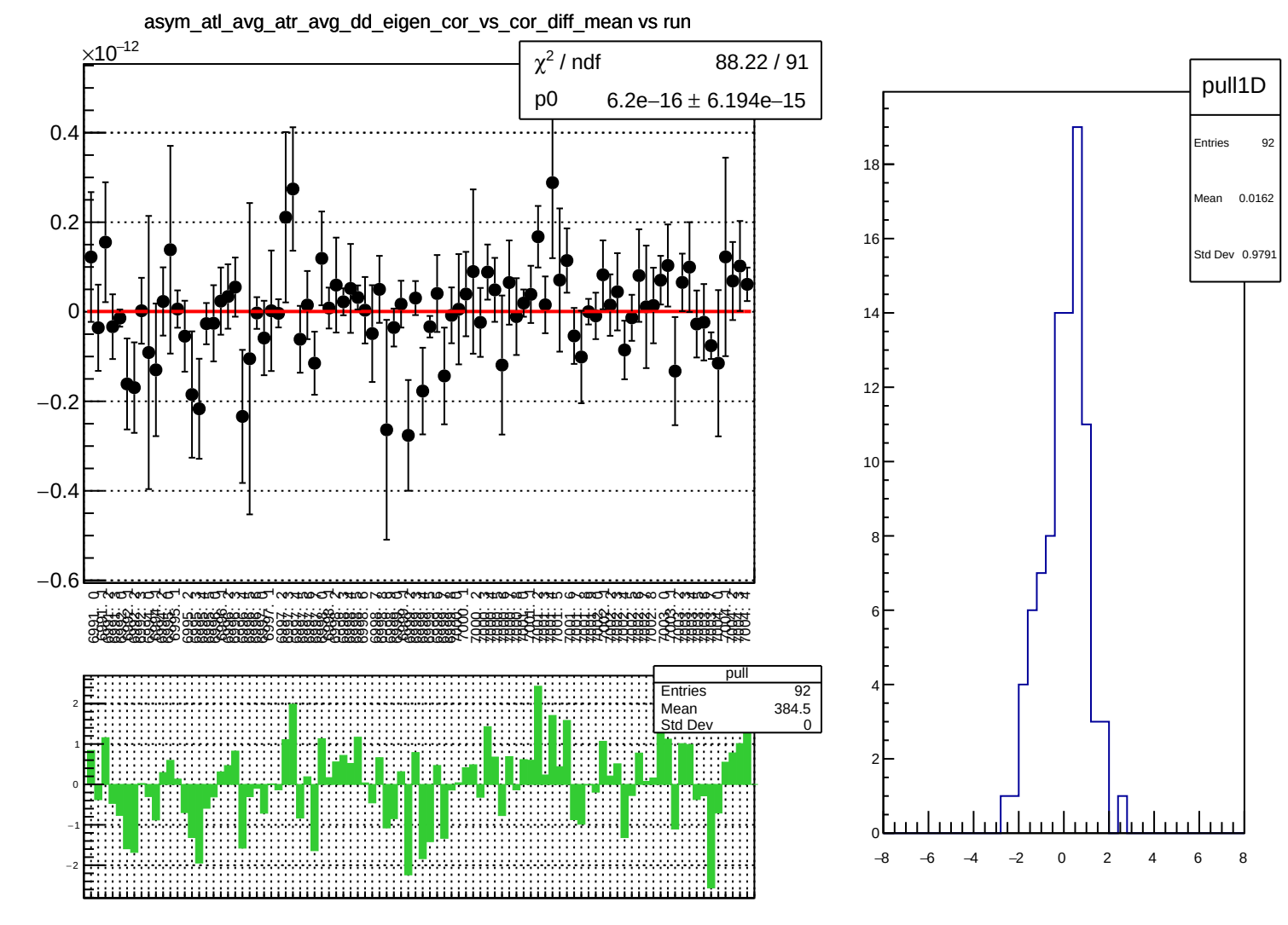

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.66 / 91
p0 −0.02825 ± 0.05439
pull
Entries 92
Mean 12.4
Std Dev 0

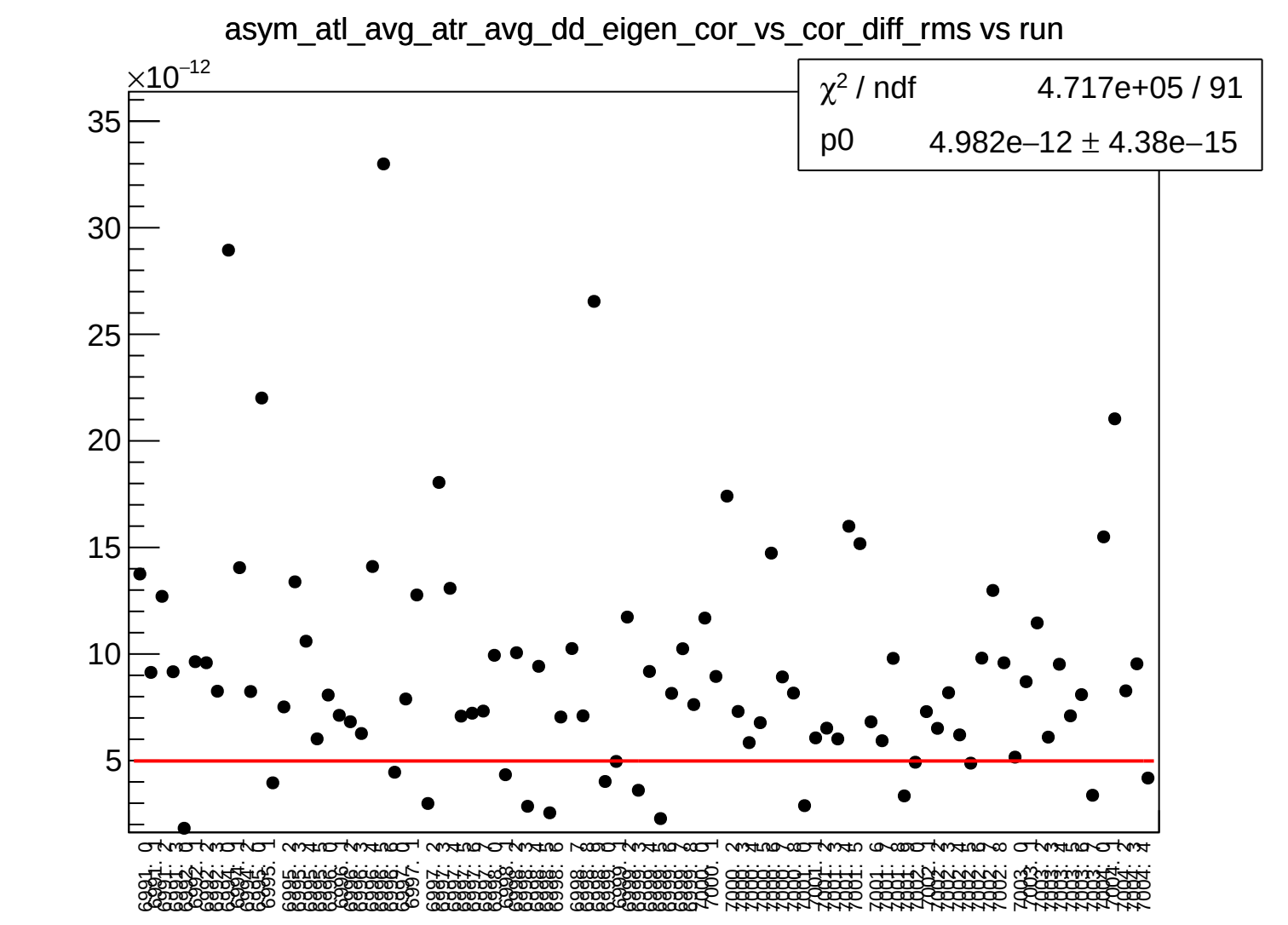

pull1D
Entries 92
Mean 0.03667
Std Dev 1.04

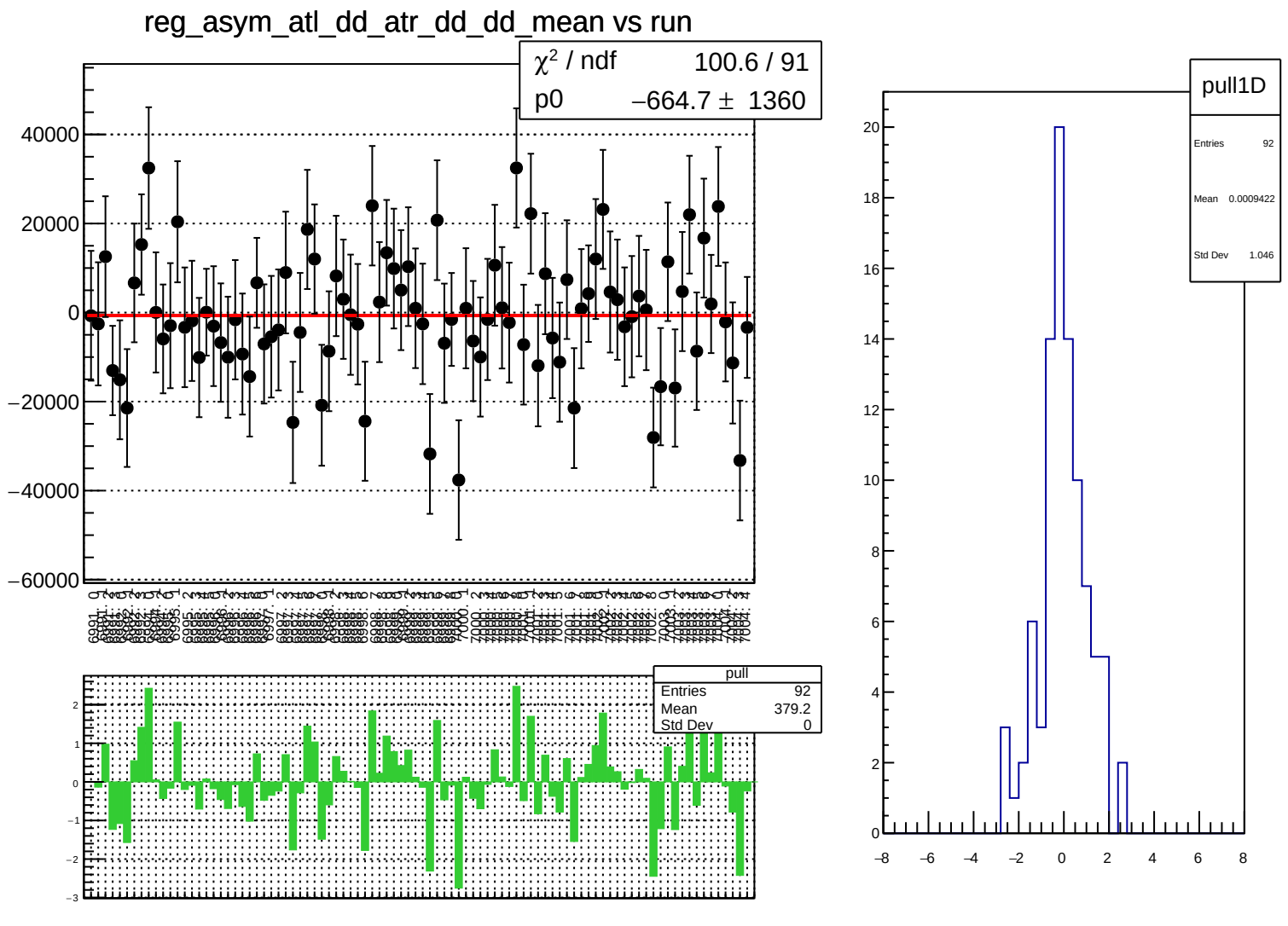

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.367e+04 / 91
p0 49.73 ± 0.03846
100
90
80
70
60
50
40
30

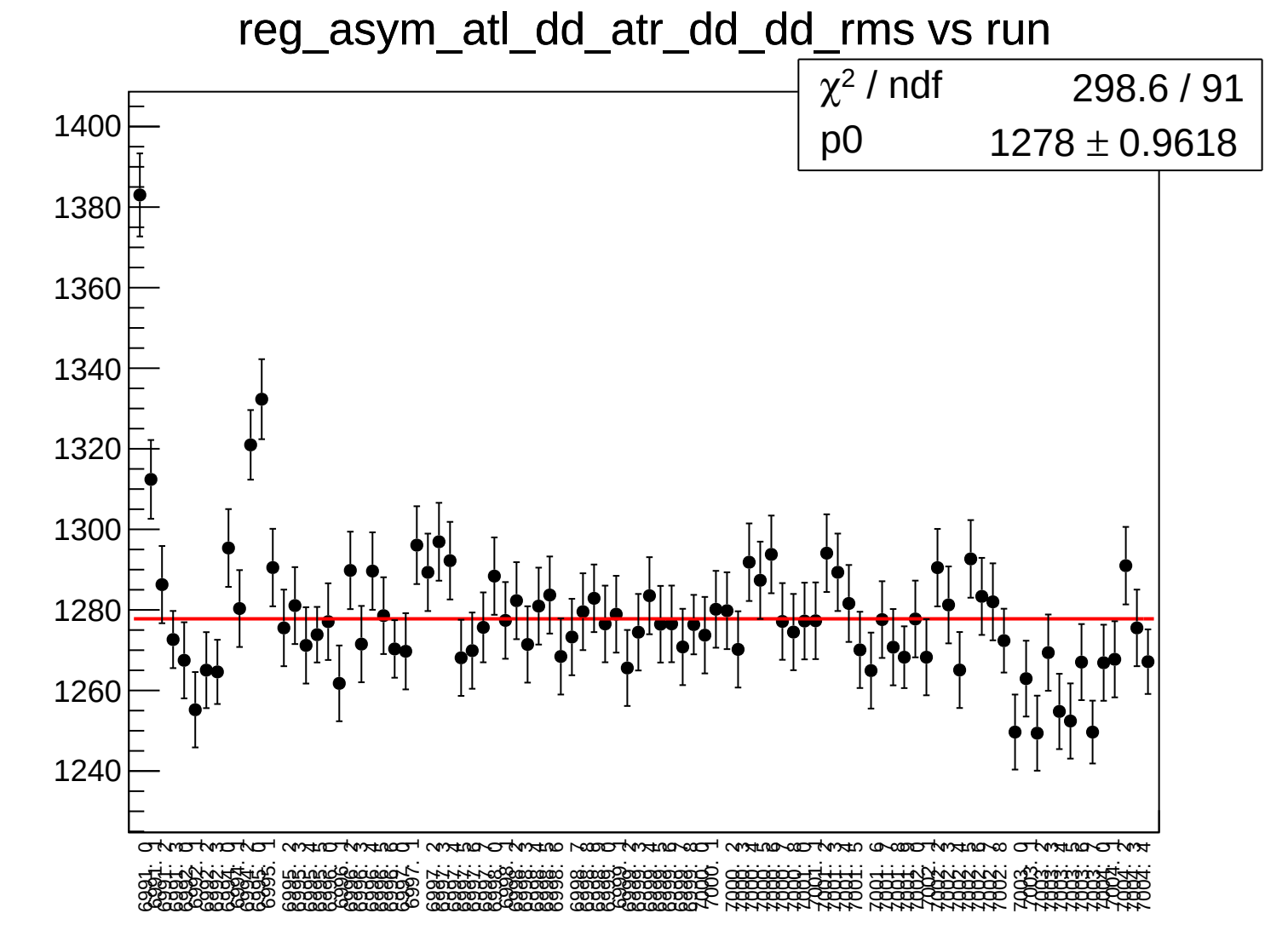

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.66 / 91
p0 −0.02825 ± 0.05439
pull
Entries 92
Mean 12.4
Std Dev 0
pull1D
Entries 92
Mean 0.03667
Std Dev 1.04

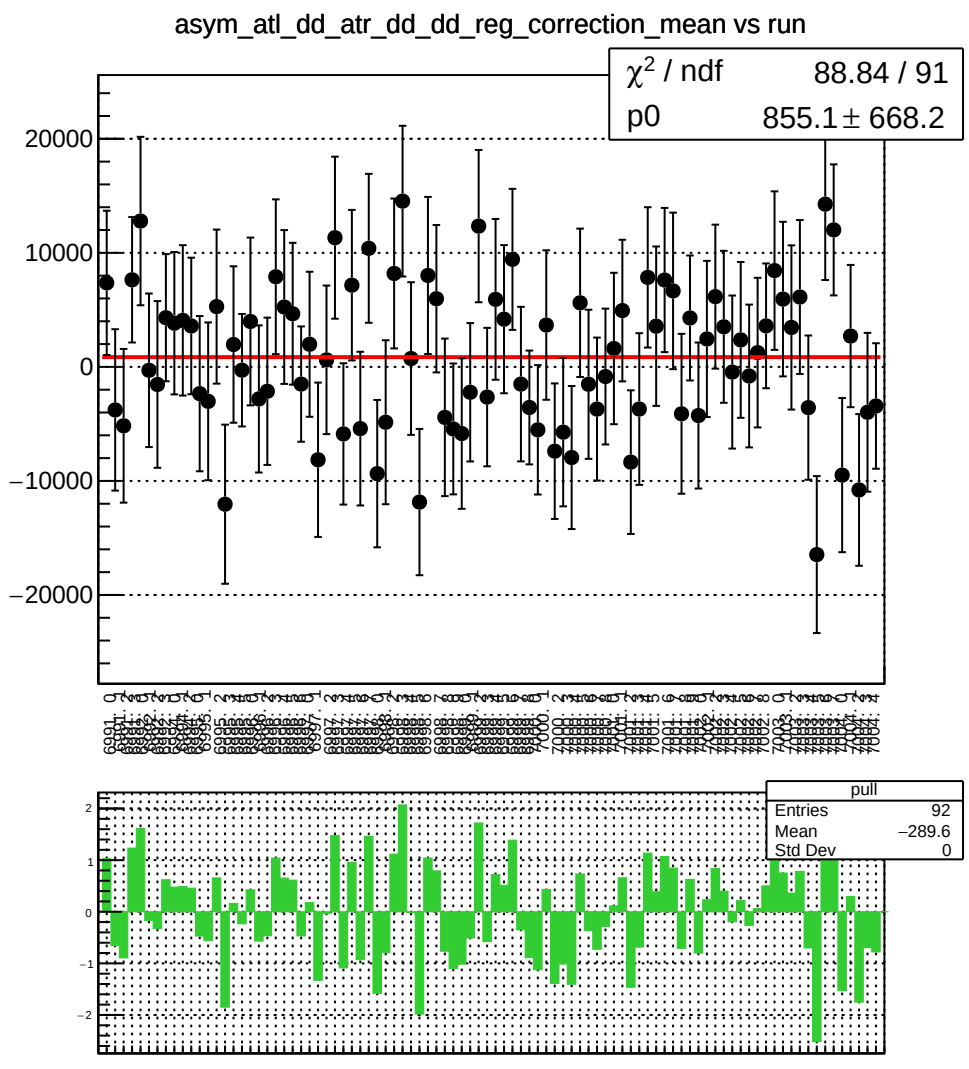

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.367e+04 / 91
p0 49.73 ± 0.03846
100
90
80
70
60
50
40
30

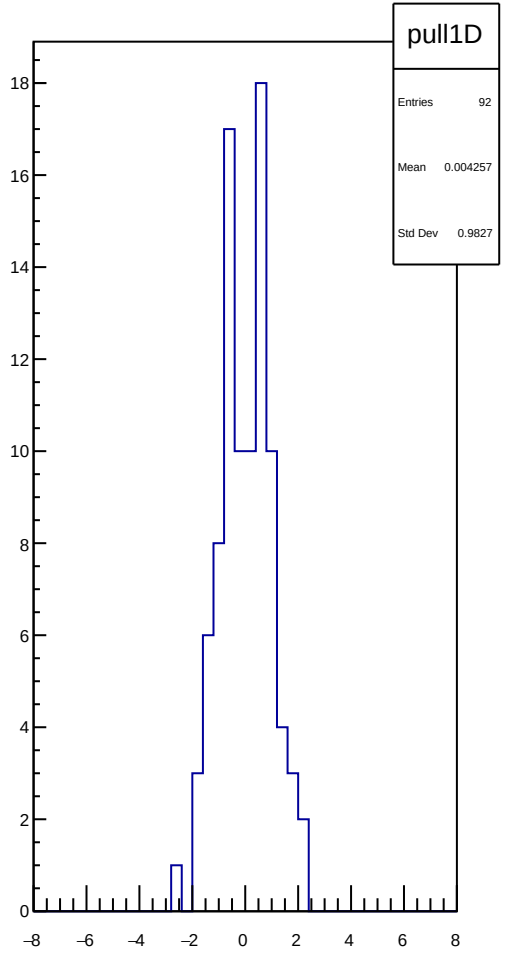

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 88.22 / 91
p0 6.2e−16 ± 6.194e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean 384.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0162
Std Dev 0.9791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

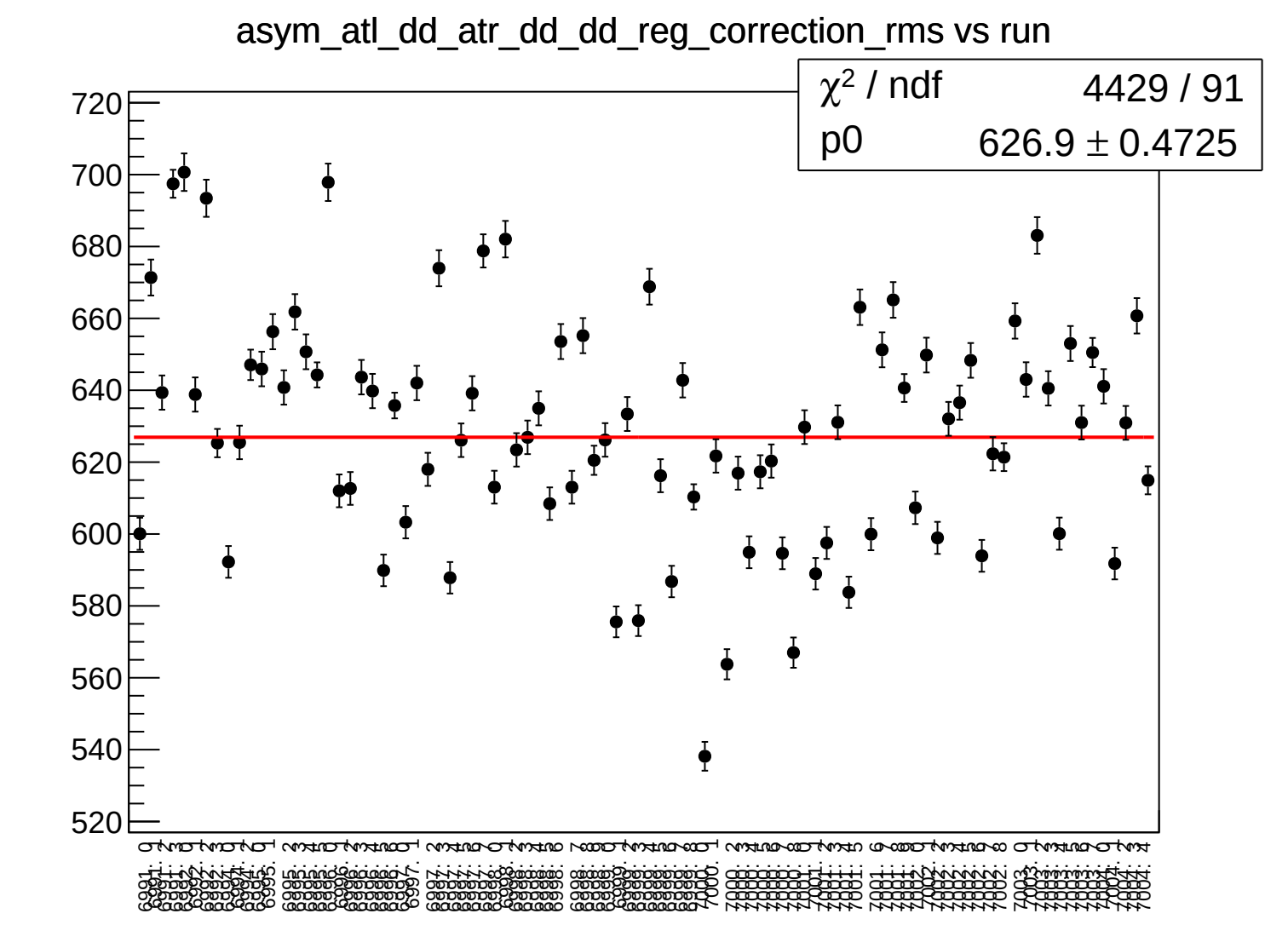

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.717e+05 / 91
p0 4.982e−12 ± 4.38e−15
35
30
25
20
15
10
5

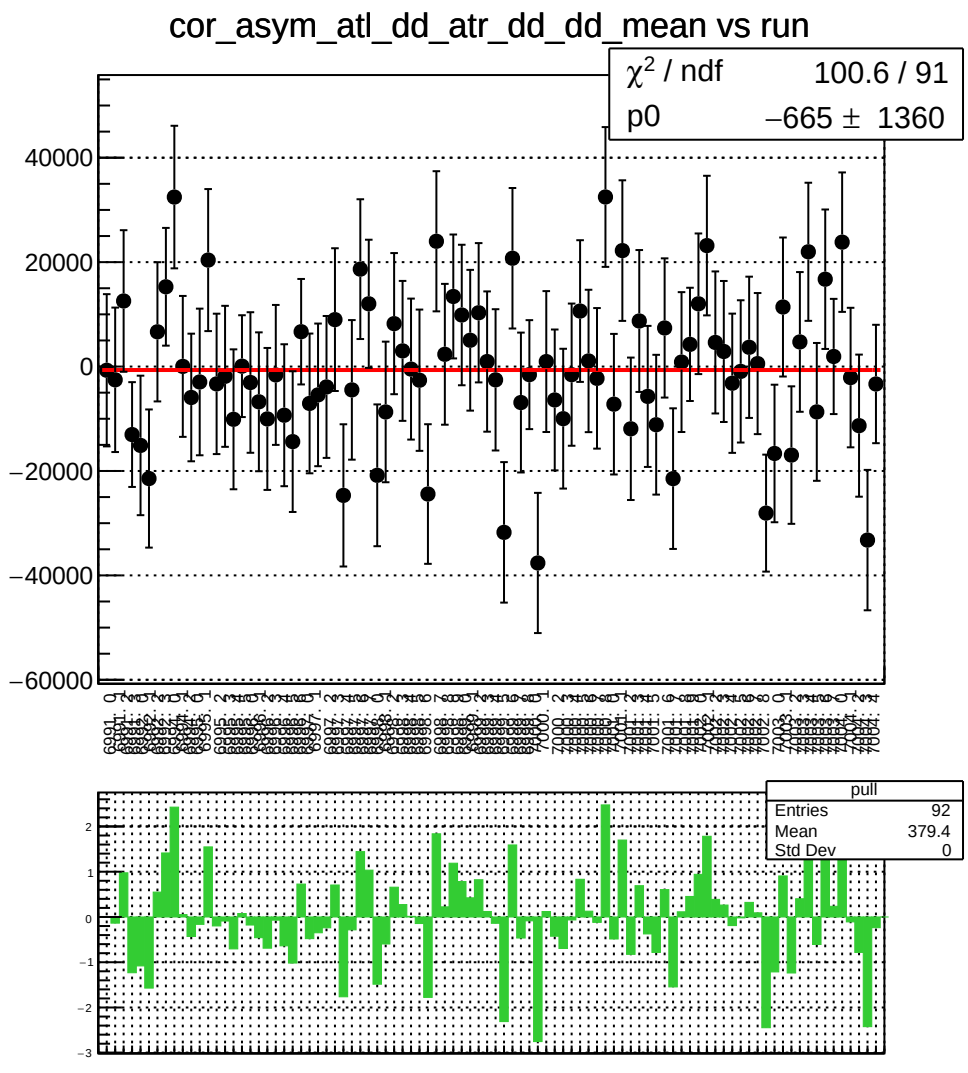

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 100.6 / 91
p0 −664.7 ± 1360
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 379.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0009422
Std Dev 1.046
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

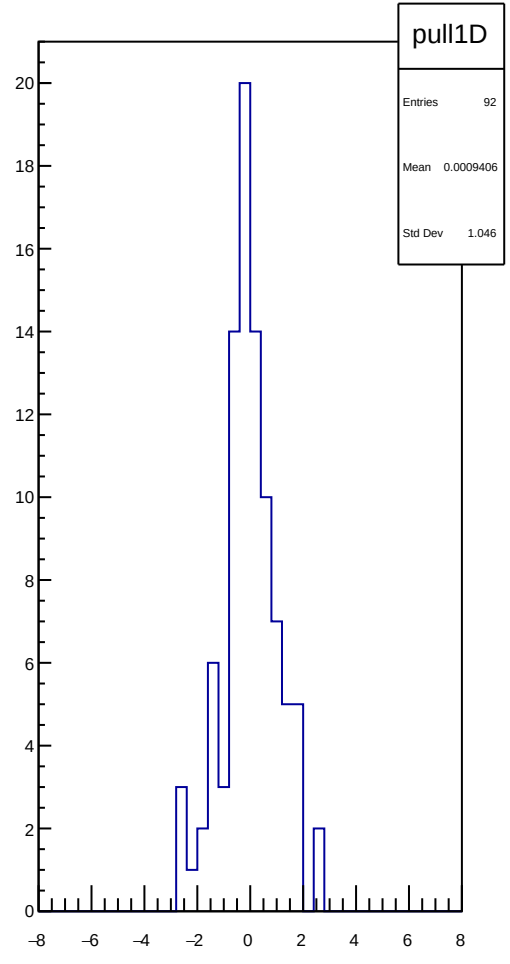

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 298.6 / 91
p0 1278 ± 0.9618
1400
1380
1360
1340
1320
1300
1280
1260
1240

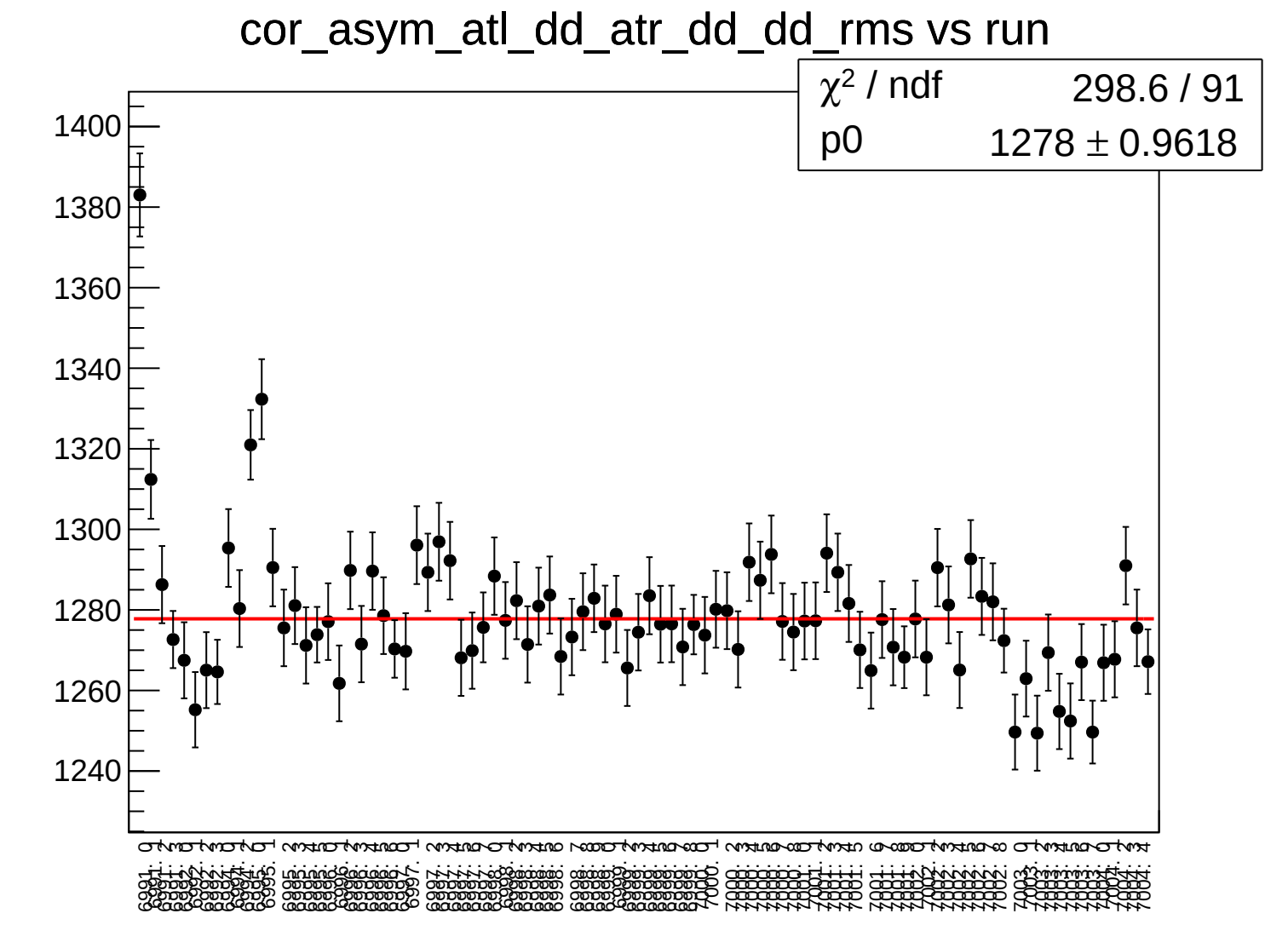

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 88.84 / 91
p0 855.1 ± 668.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −289.6
Std Dev 0
2
1
0
−1
−2

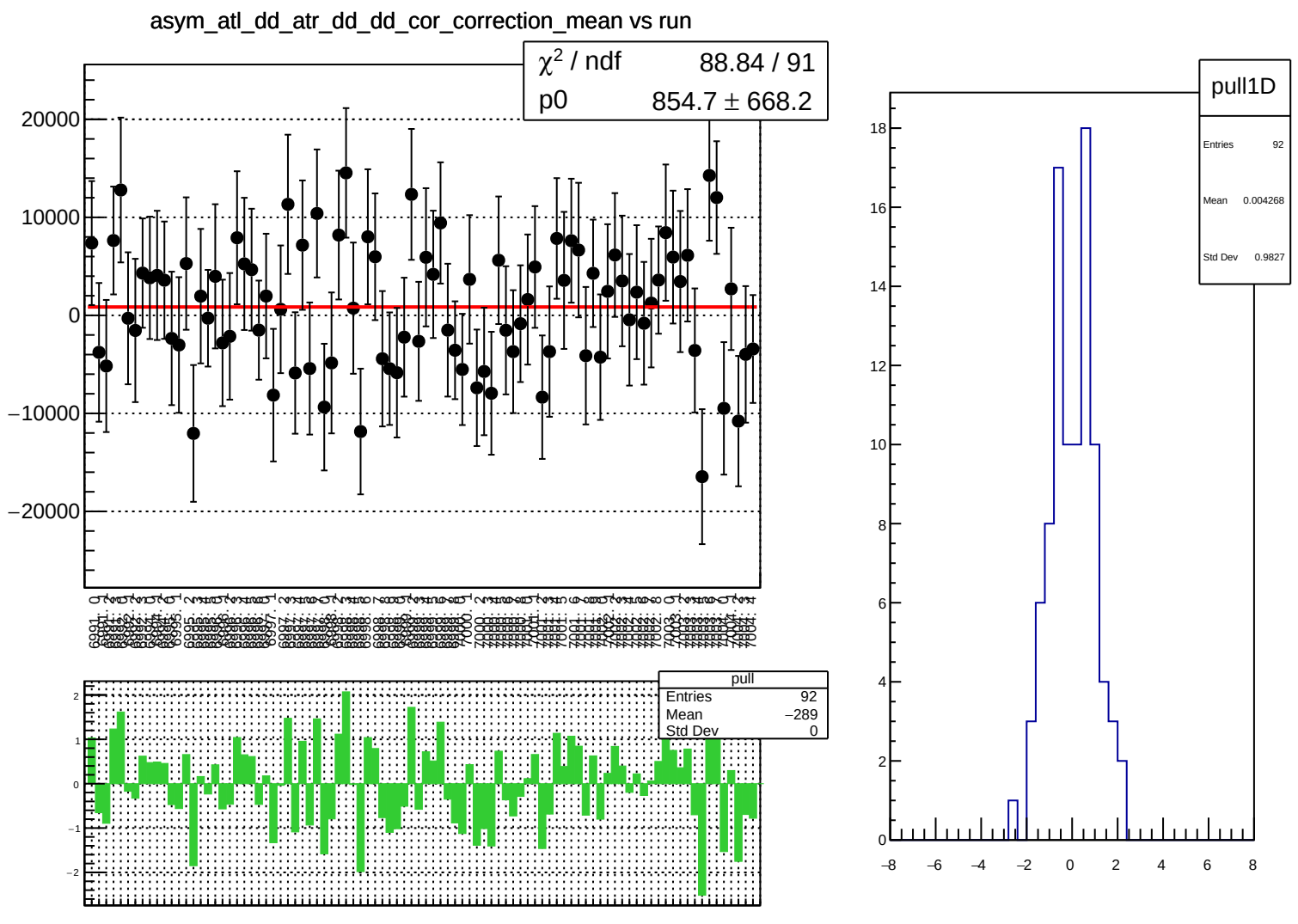

pull1D
Entries 92
Mean 0.004257
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

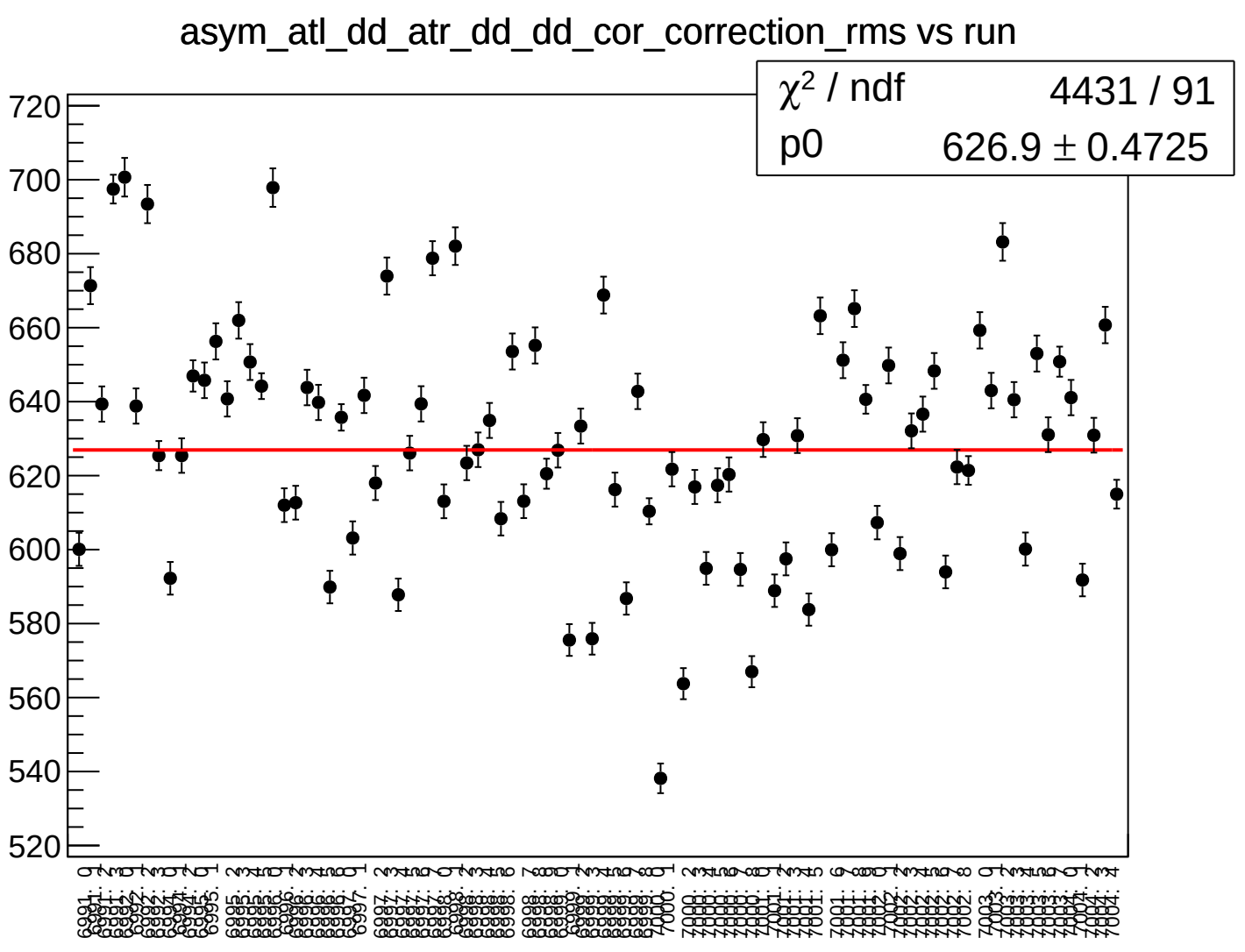

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 4429 / 91
p0 626.9 ± 0.4725
720
700
680
660
640
620
600
580
560
540
520

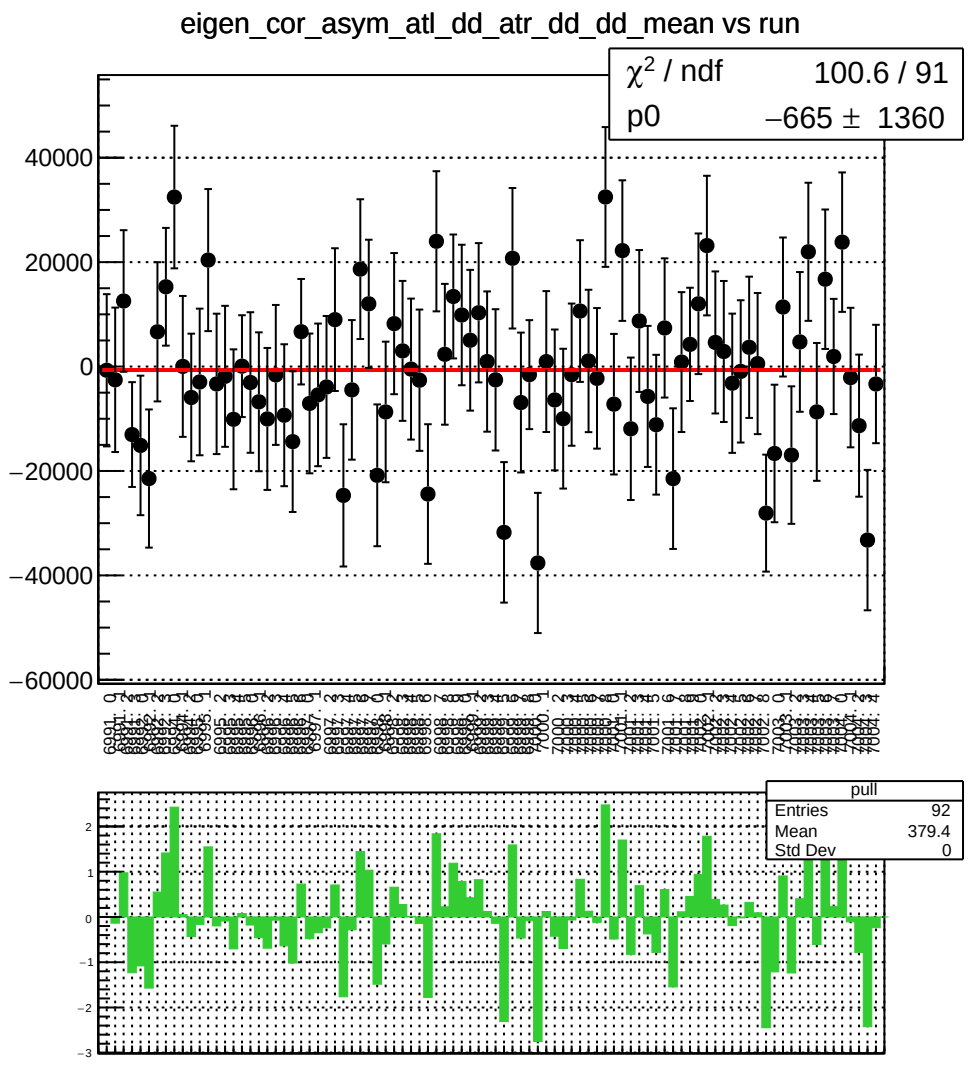

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 100.6 / 91
p0 −665 ± 1360
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 379.4
Std Dev 0
2
1
0
−1
−2
−3

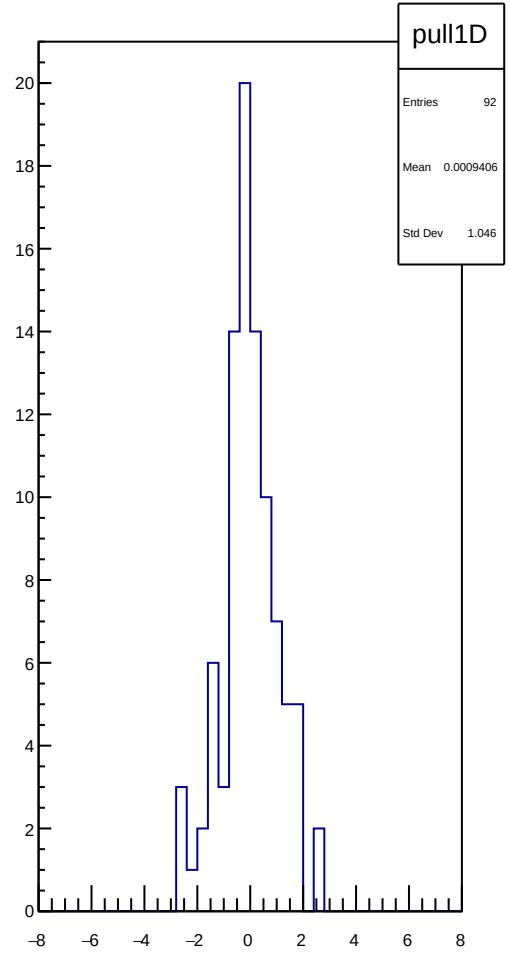

pull1D
Entries 92
Mean 0.0009406
Std Dev 1.046
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

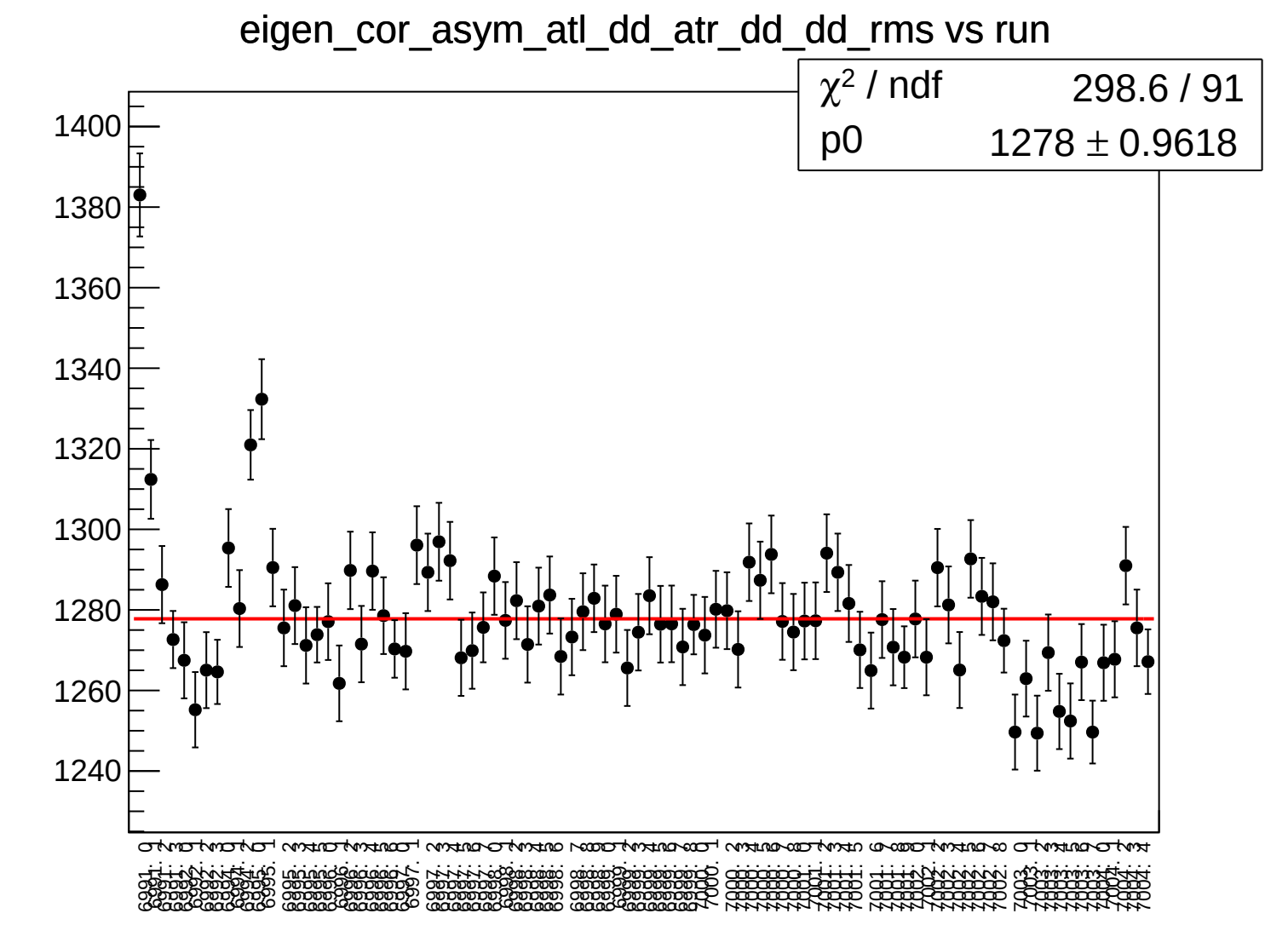

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 298.6 / 91
p0 1278 ± 0.9618
1400
1380
1360
1340
1320
1300
1280
1260
1240

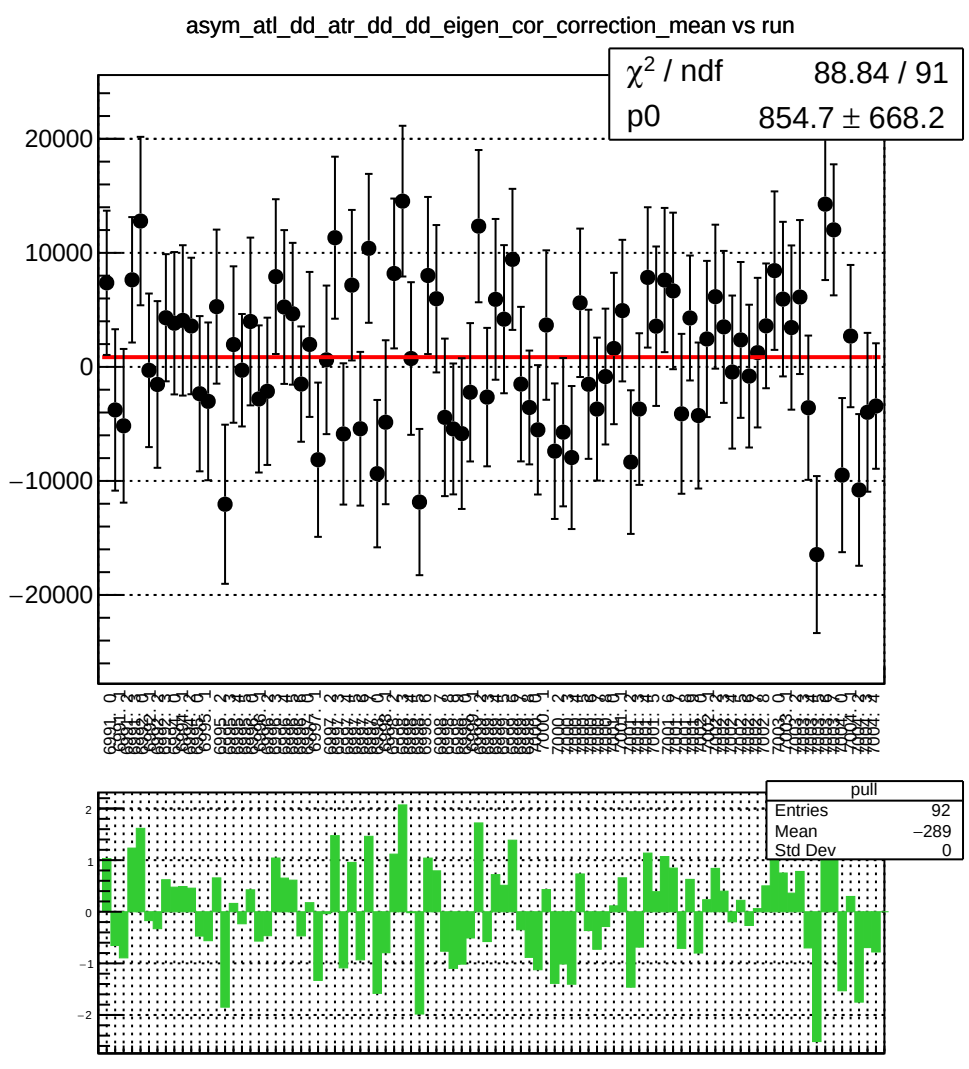

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 88.84 / 91
p0 854.7 ± 668.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −289
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.004268
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

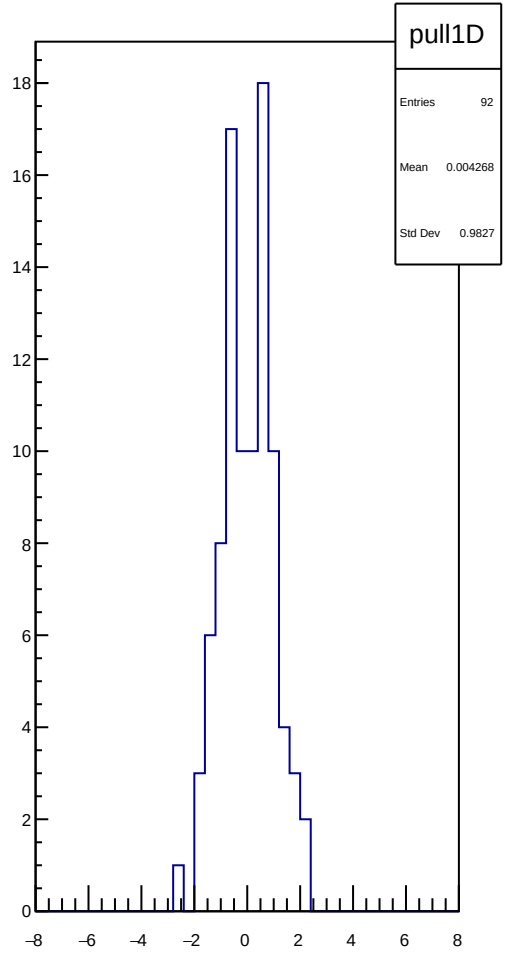

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 4431 / 91
p0 626.9 ± 0.4725
720
700
680
660
640
620
600
580
560
540
520

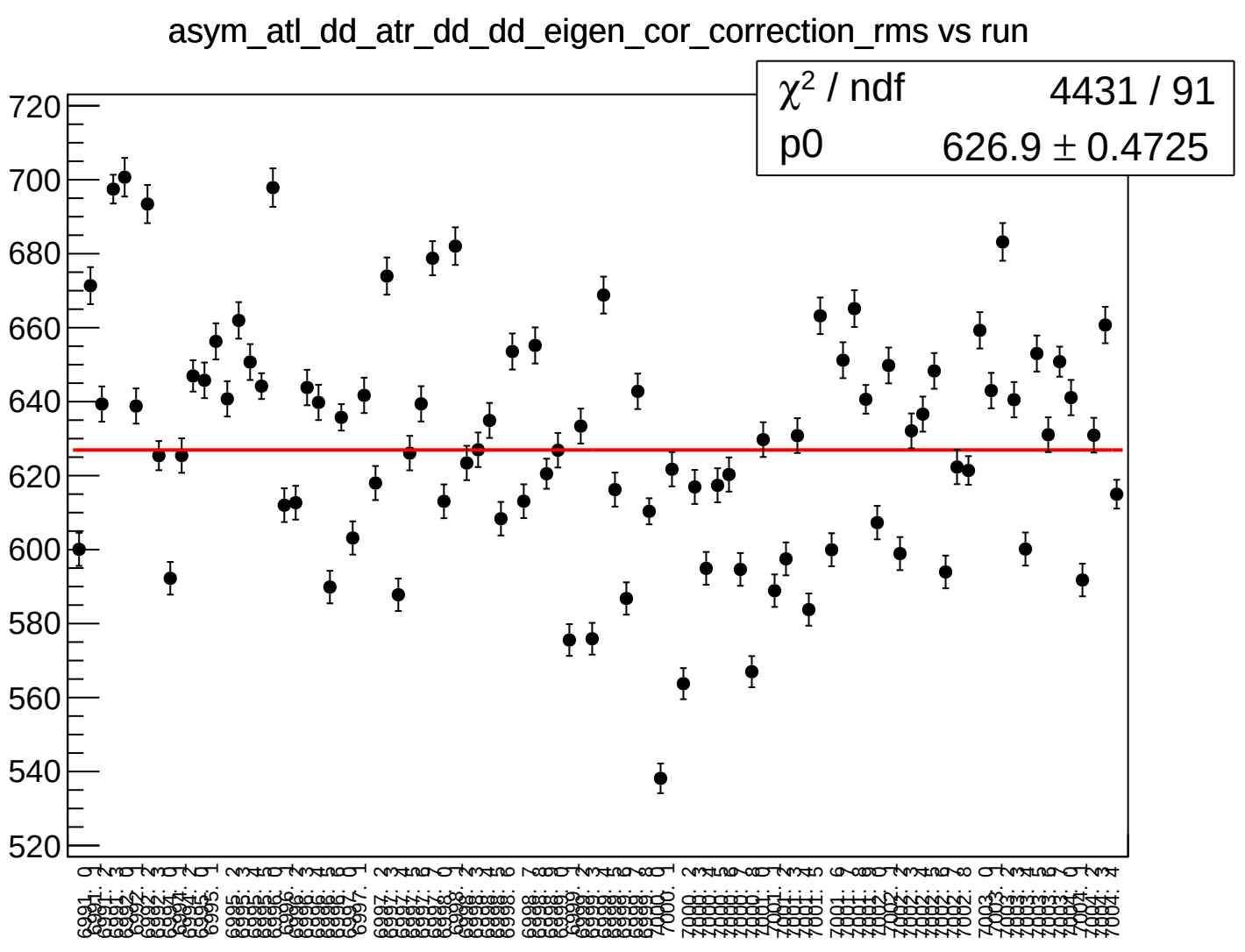

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 100.6 / 91
p0 −665 ± 1360
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 379.4
Std Dev 0
2
1
0
−1
−2
−3

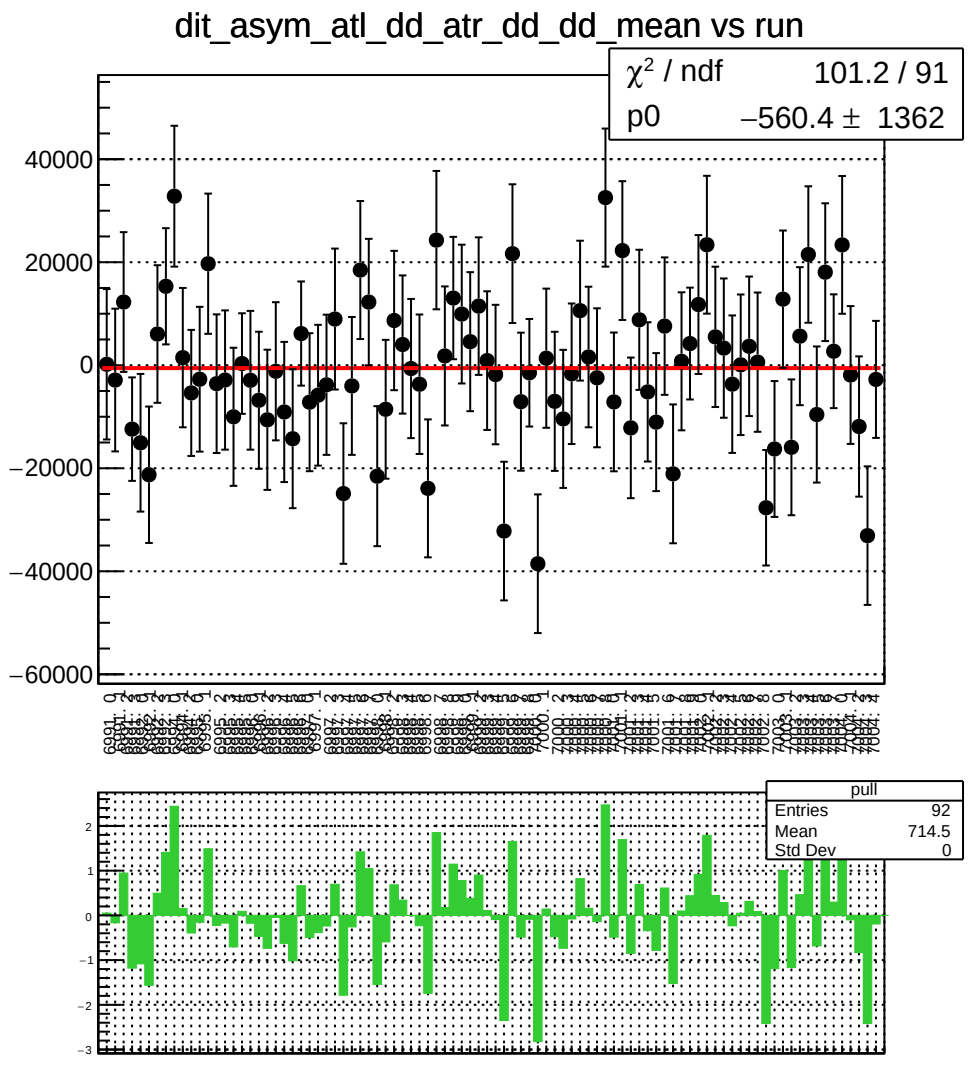

pull1D
Entries 92
Mean 0.0009406
Std Dev 1.046
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

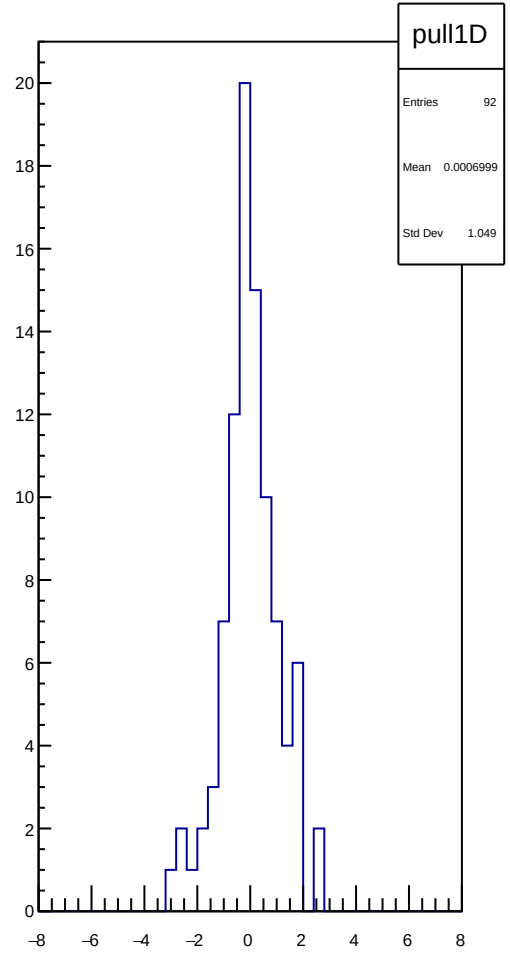

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 298.6 / 91
p0 1278 ± 0.9618
1400
1380
1360
1340
1320
1300
1280
1260
1240

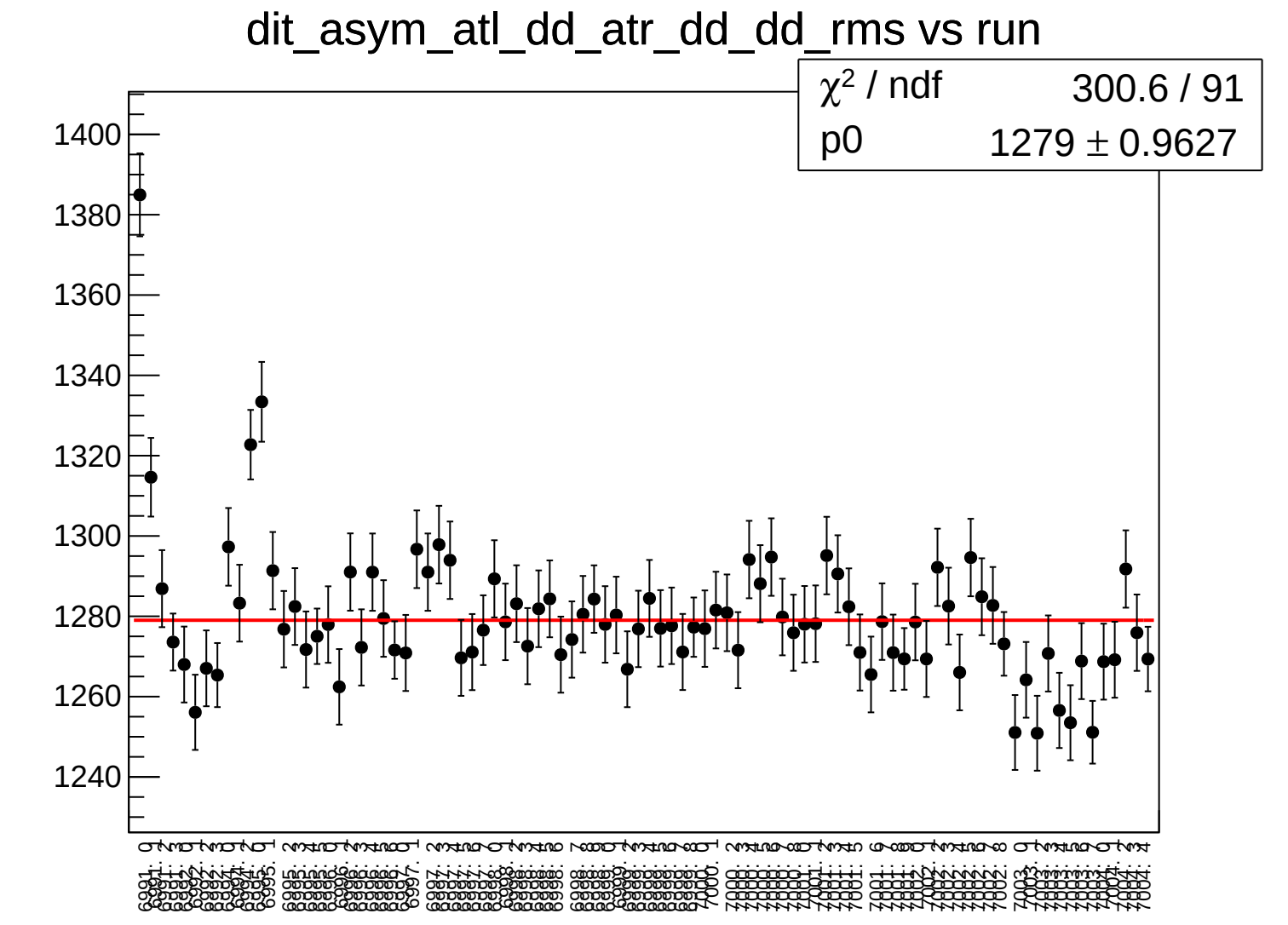

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.84 / 91
p0 854.7 ± 668.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −289
Std Dev 0
2
1
0
−1
−2

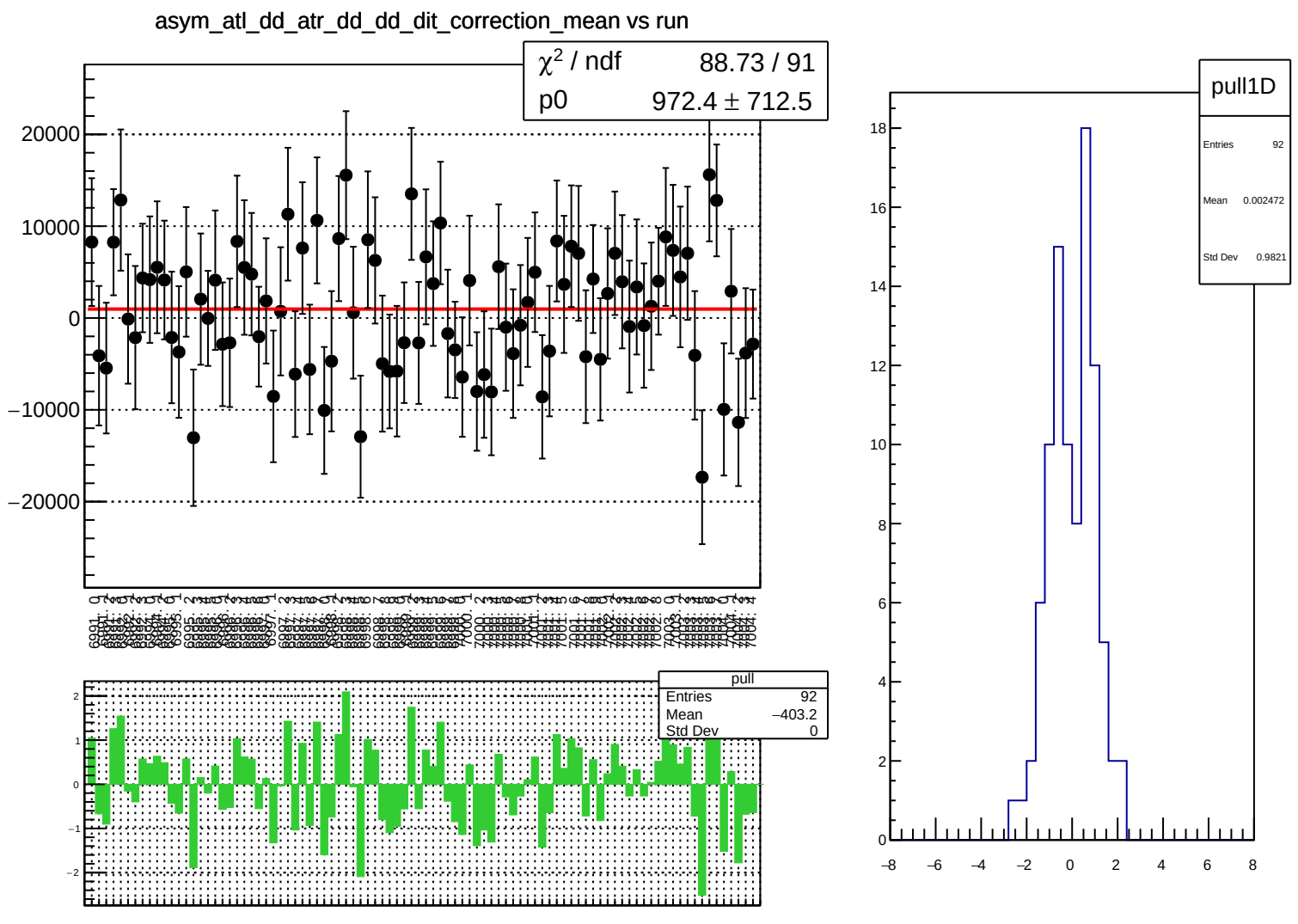

pull1D
Entries 92
Mean 0.004268
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

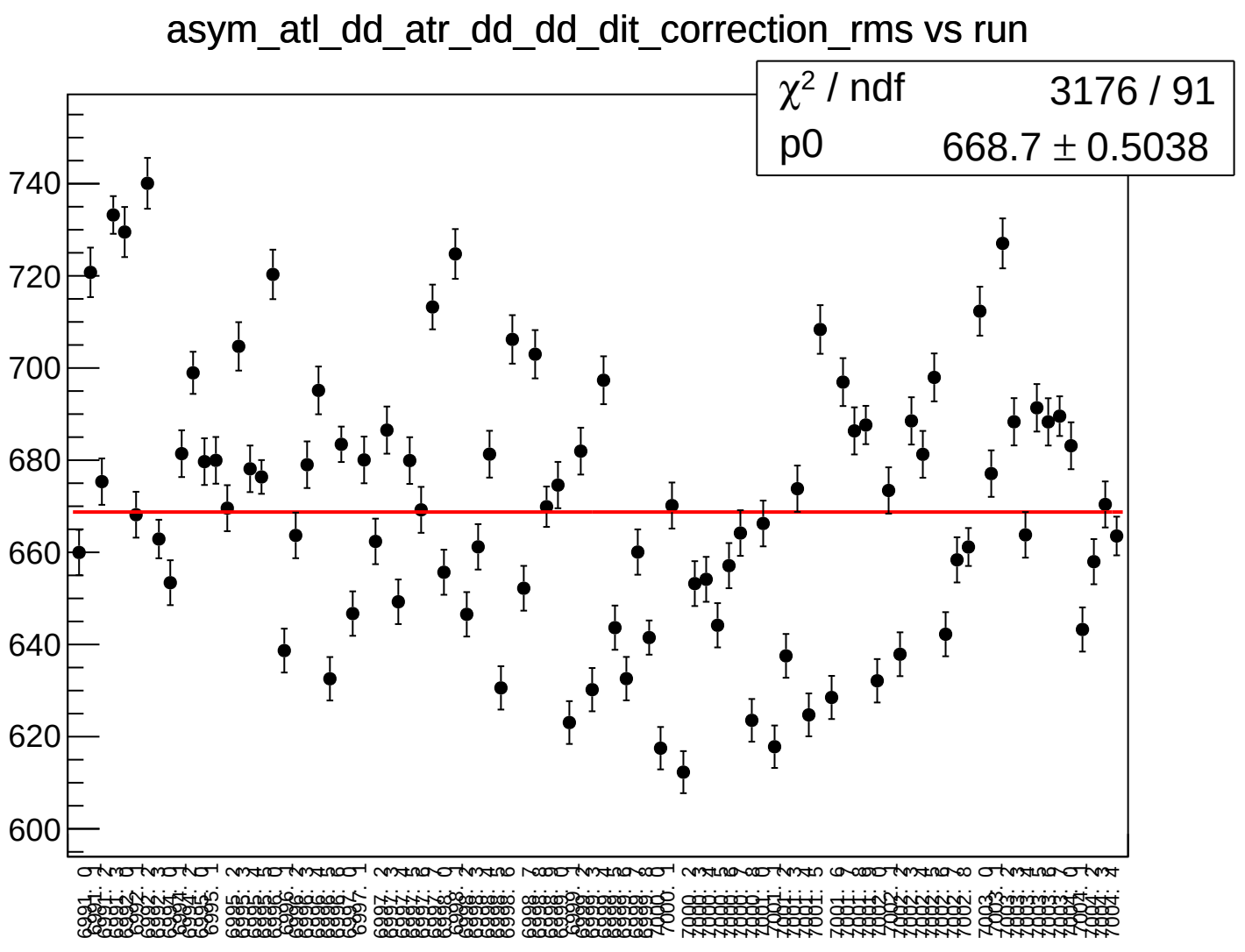

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4431 / 91
p0 626.9 ± 0.4725
720
700
680
660
640
620
600
580
560
540
520

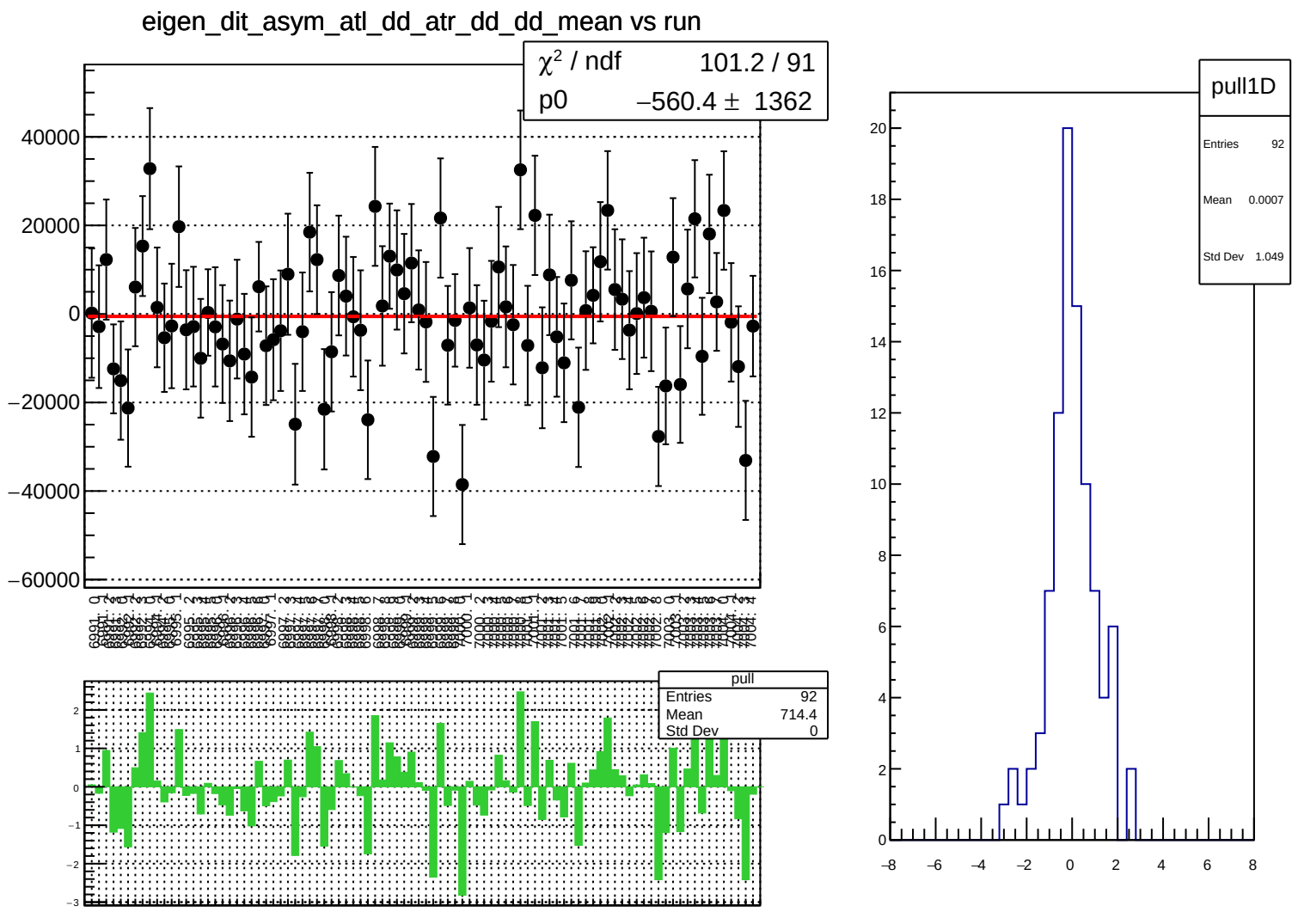

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 101.2 / 91
p0 −560.4 ± 1362
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 714.5
Std Dev 0
2
1
0
−1
−2
−3

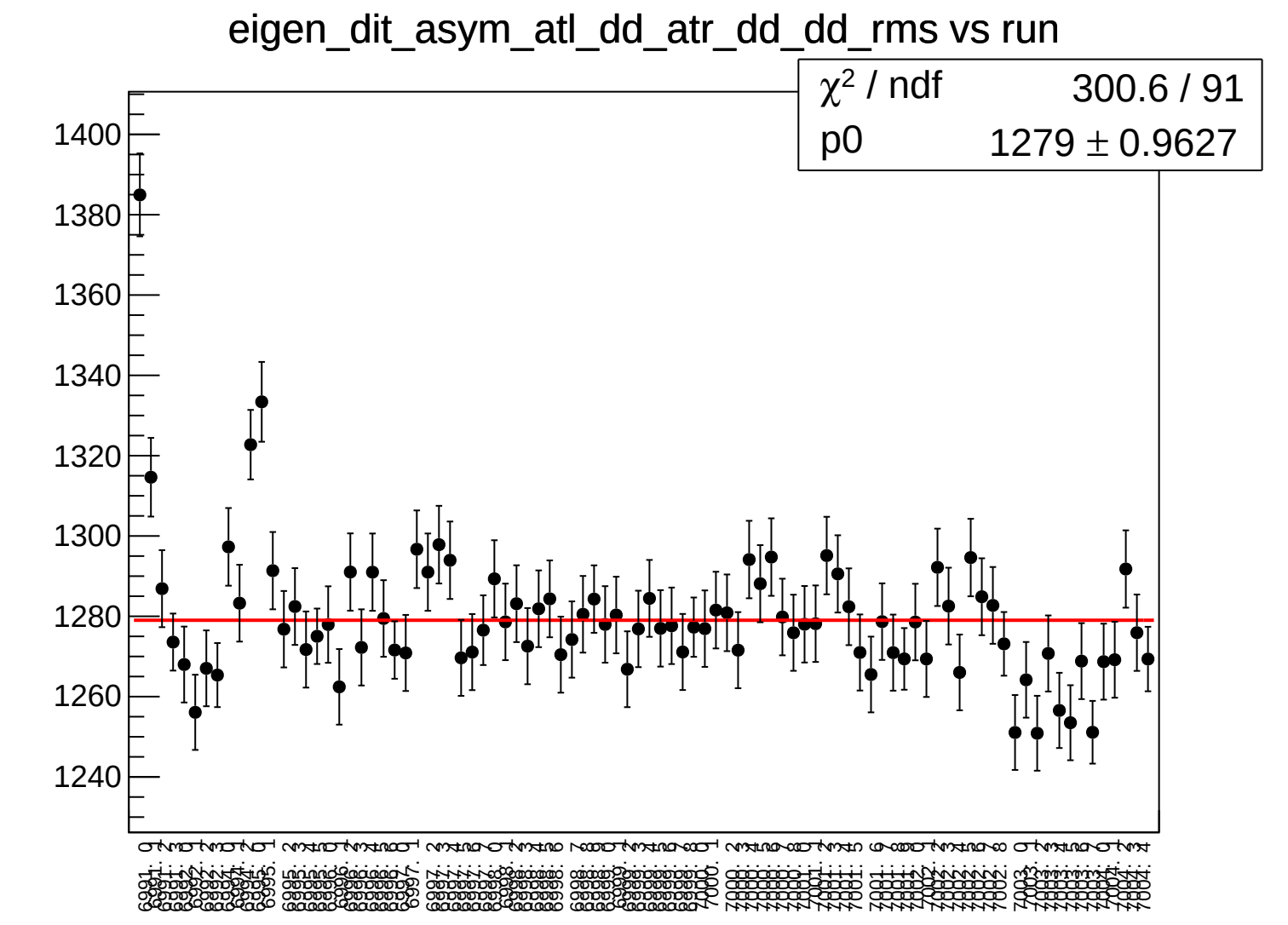

pull1D
Entries 92
Mean 0.0006999
Std Dev 1.049
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

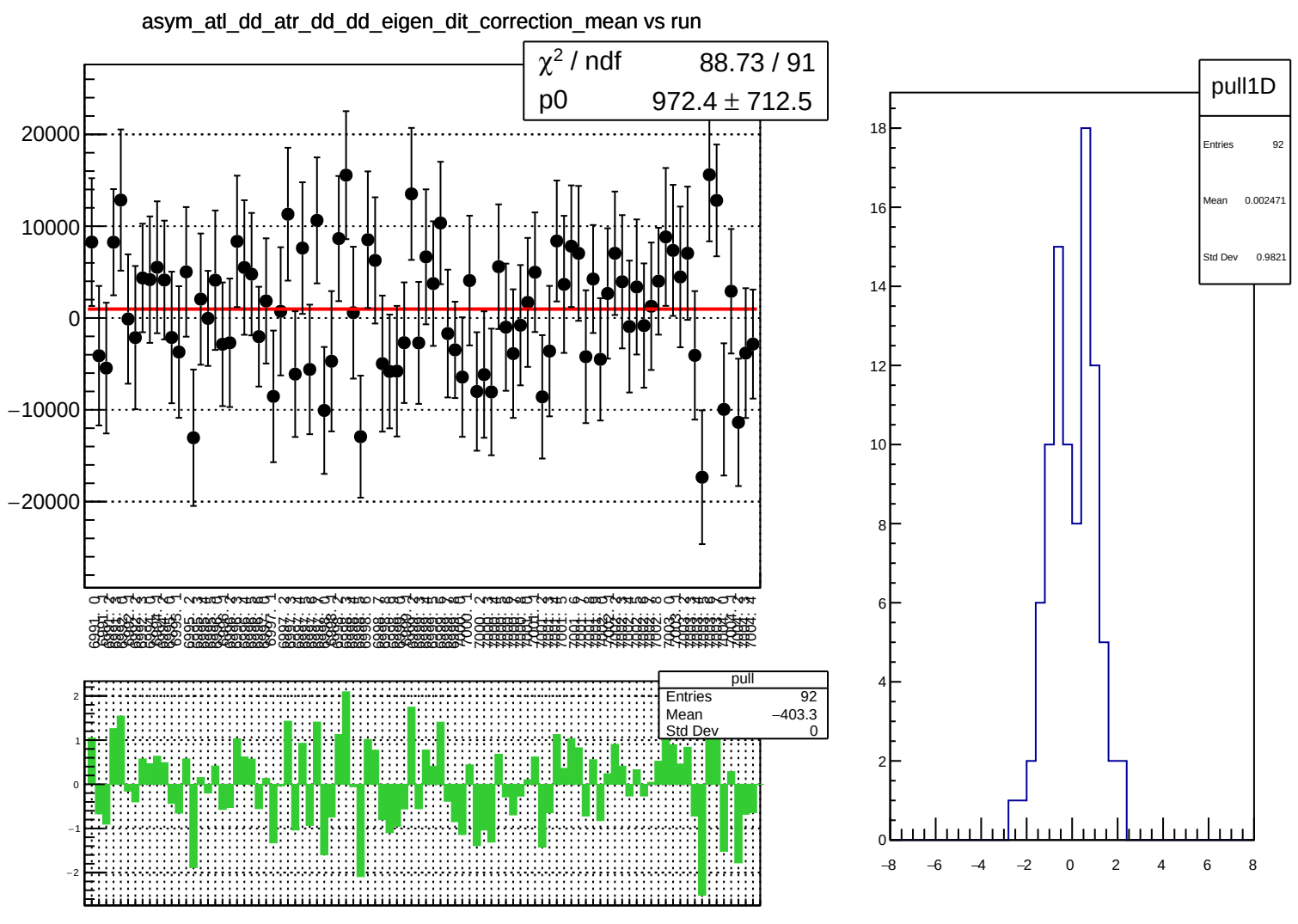

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 300.6 / 91
p0 1279 ± 0.9627
1400
1380
1360
1340
1320
1300
1280
1260
1240

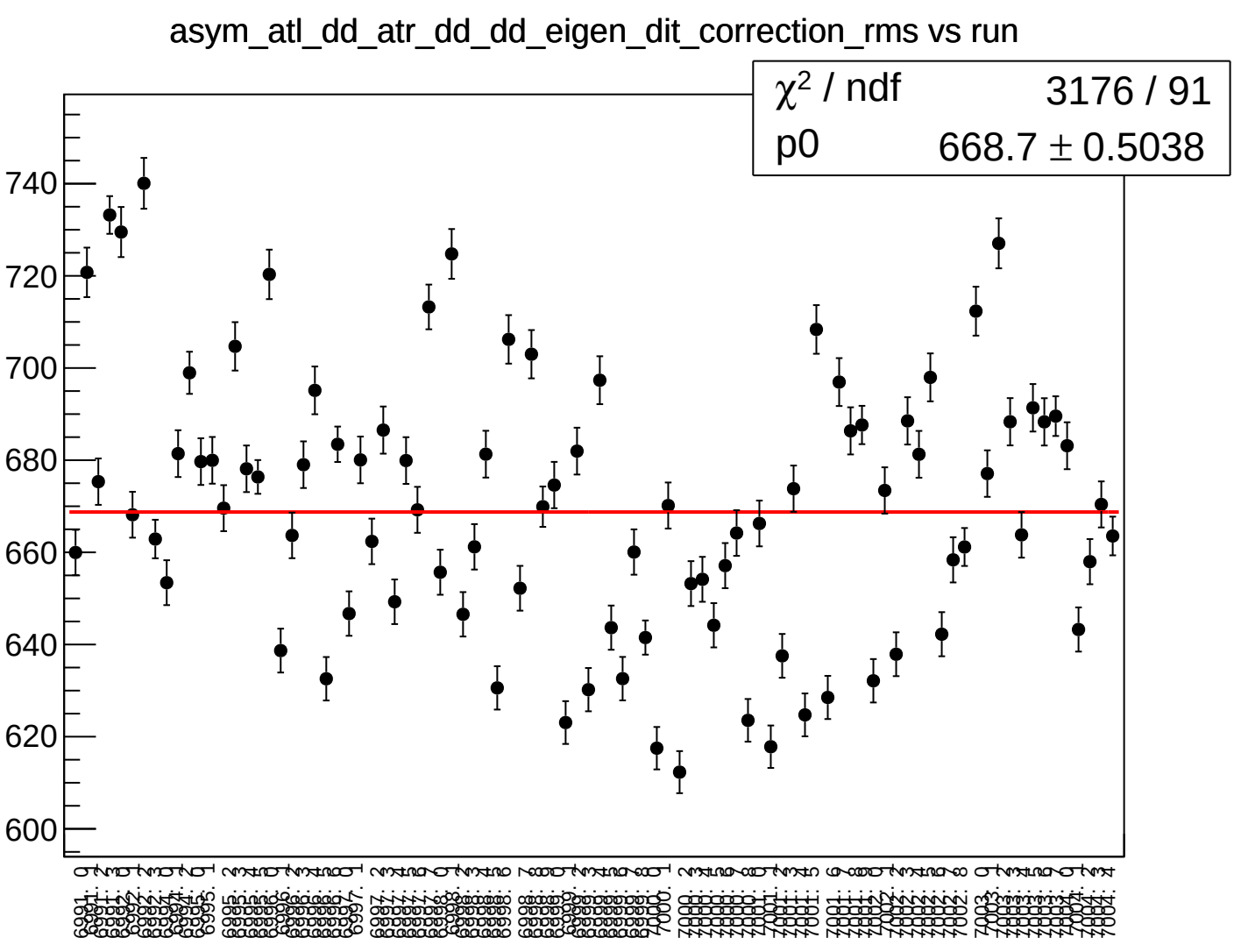

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 88.73 / 91
p0 972.4 ± 712.5
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −403.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002472
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

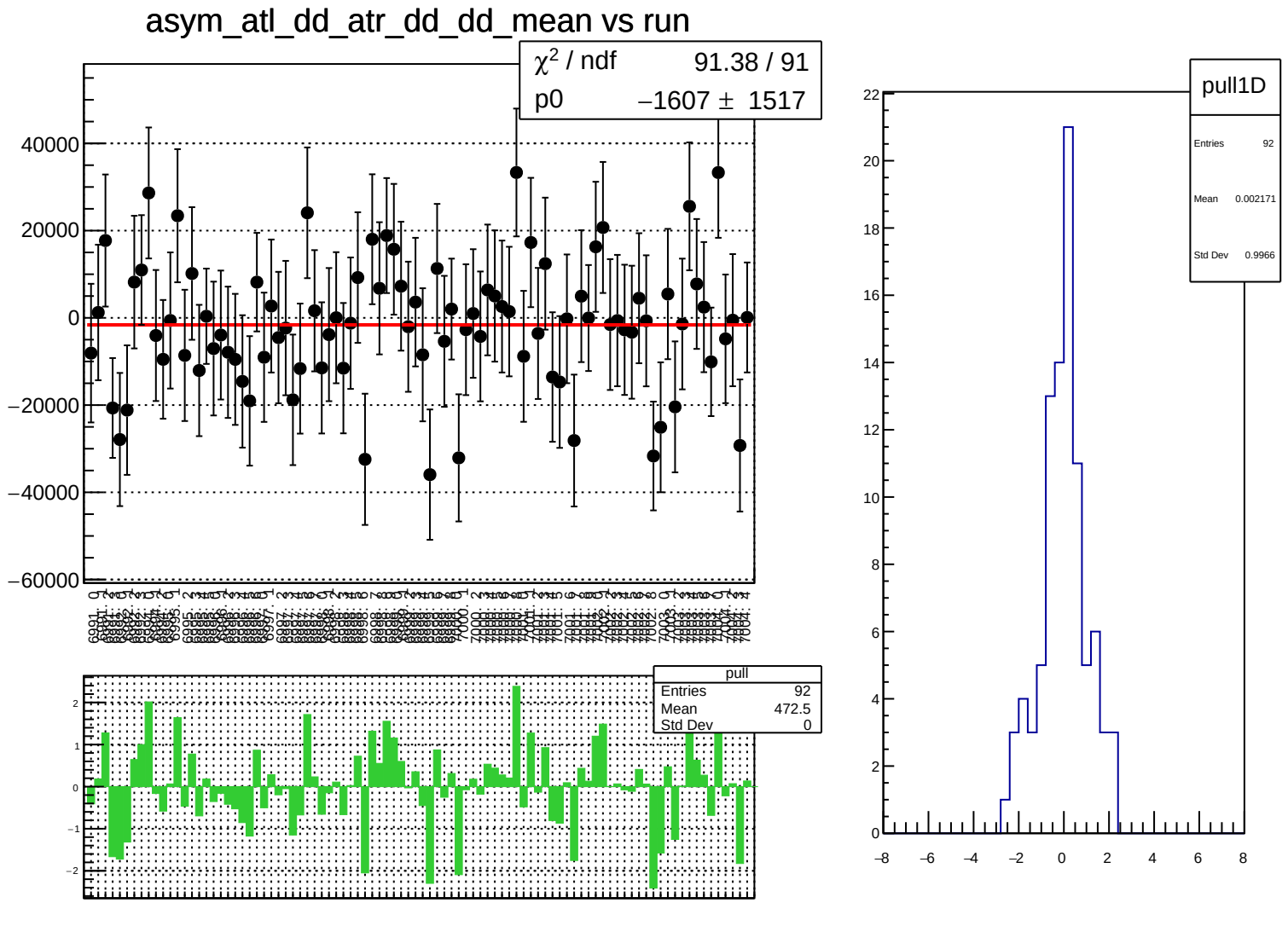

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3176 / 91
p0 668.7 ± 0.5038
740
720
700
680
660
640
620
600

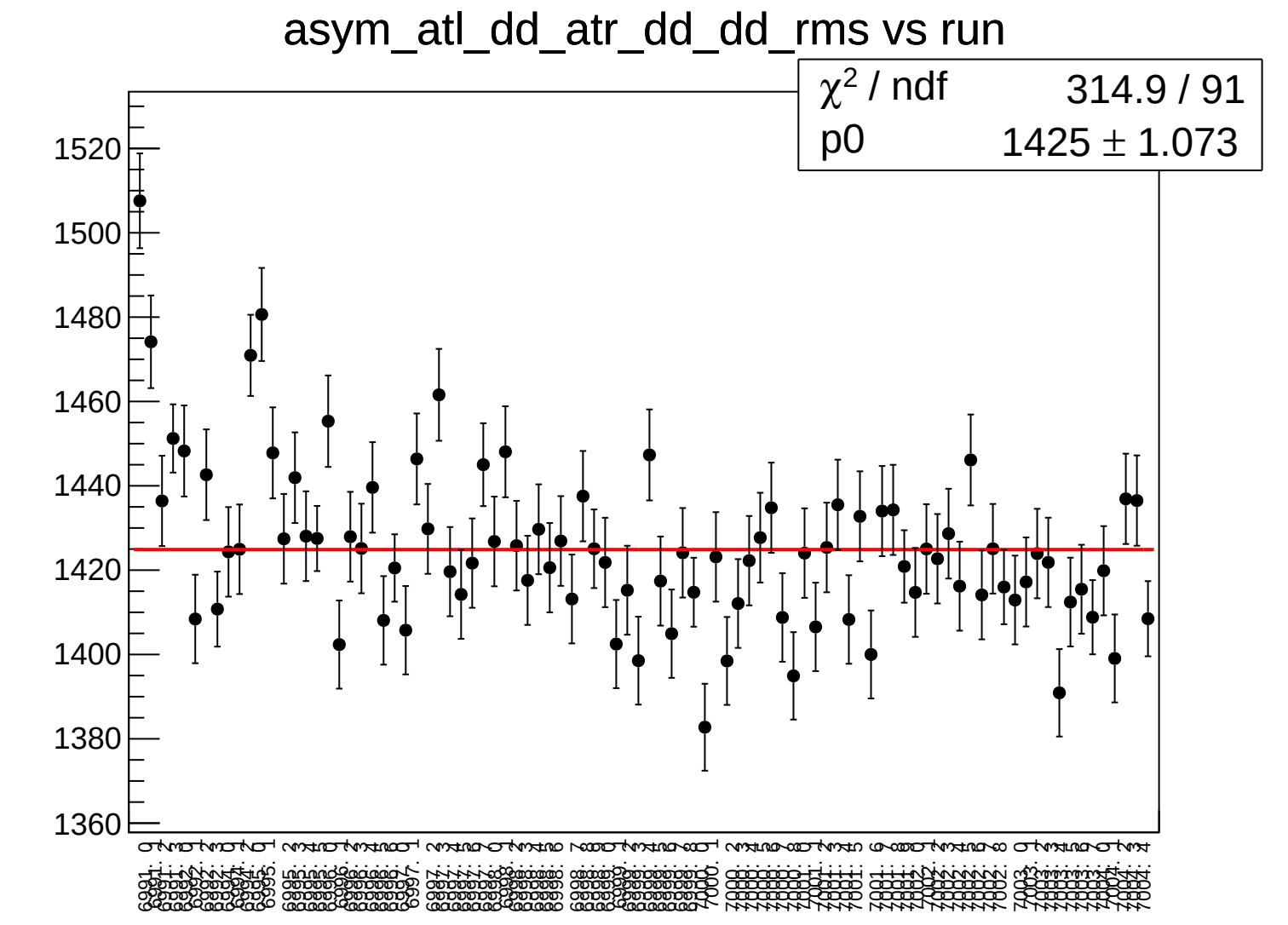

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 101.2 / 91
p0 −560.4 ± 1362
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 714.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0007
Std Dev 1.049
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

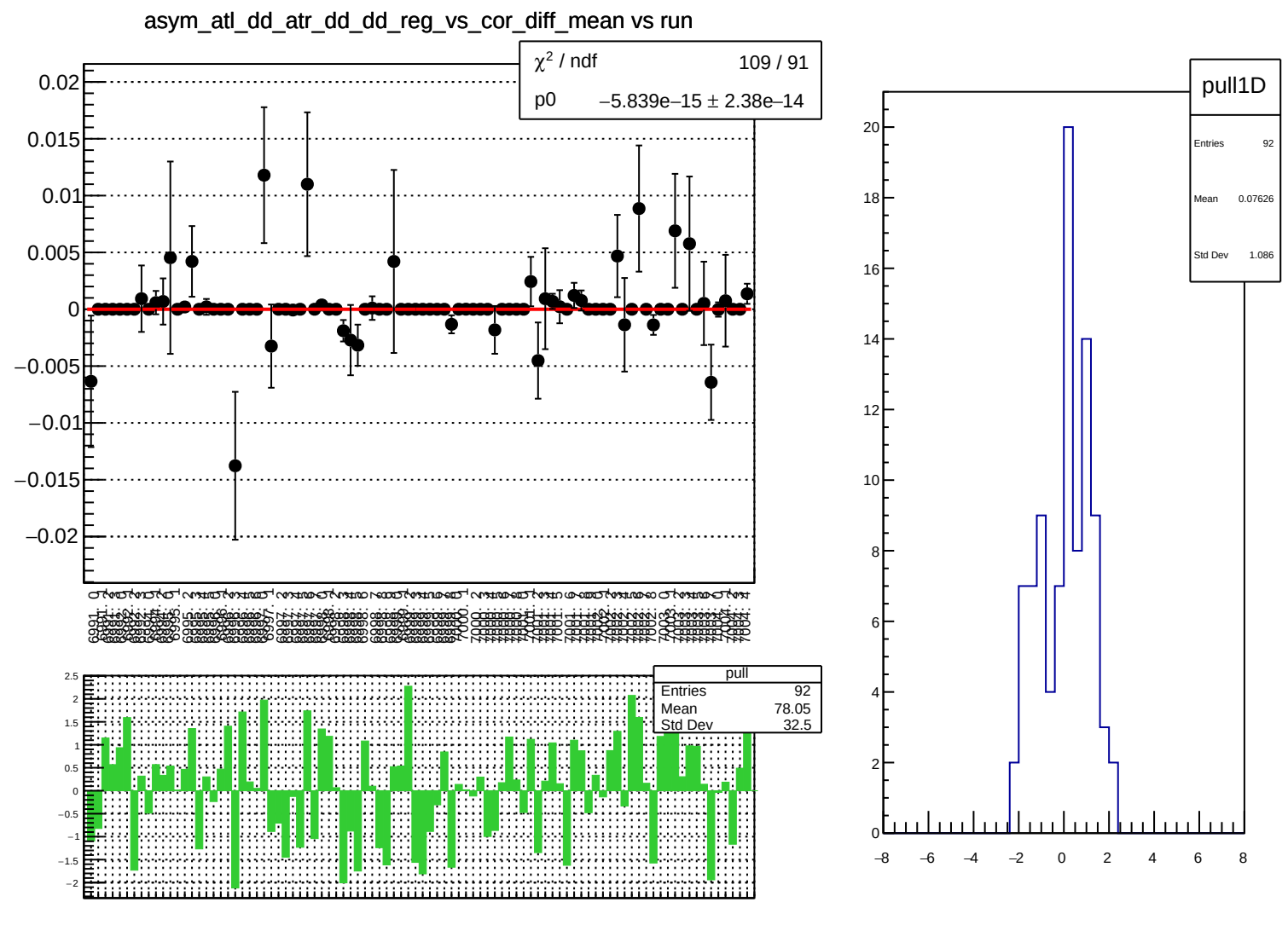

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 300.6 / 91
p0 1279 ± 0.9627
1400
1380
1360
1340
1320
1300
1280
1260
1240

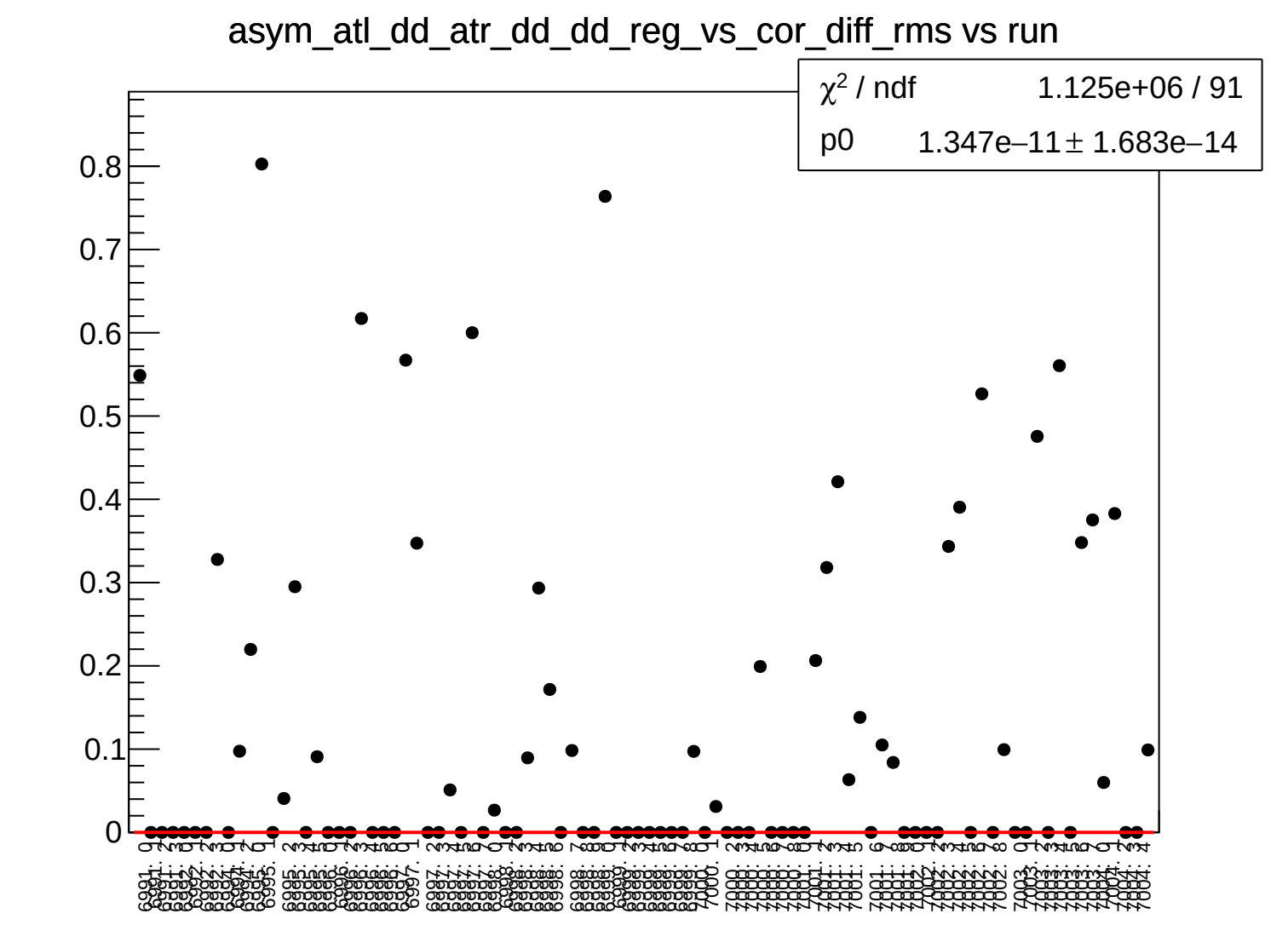

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.73 / 91
p0 972.4 ± 712.5
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −403.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002471
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

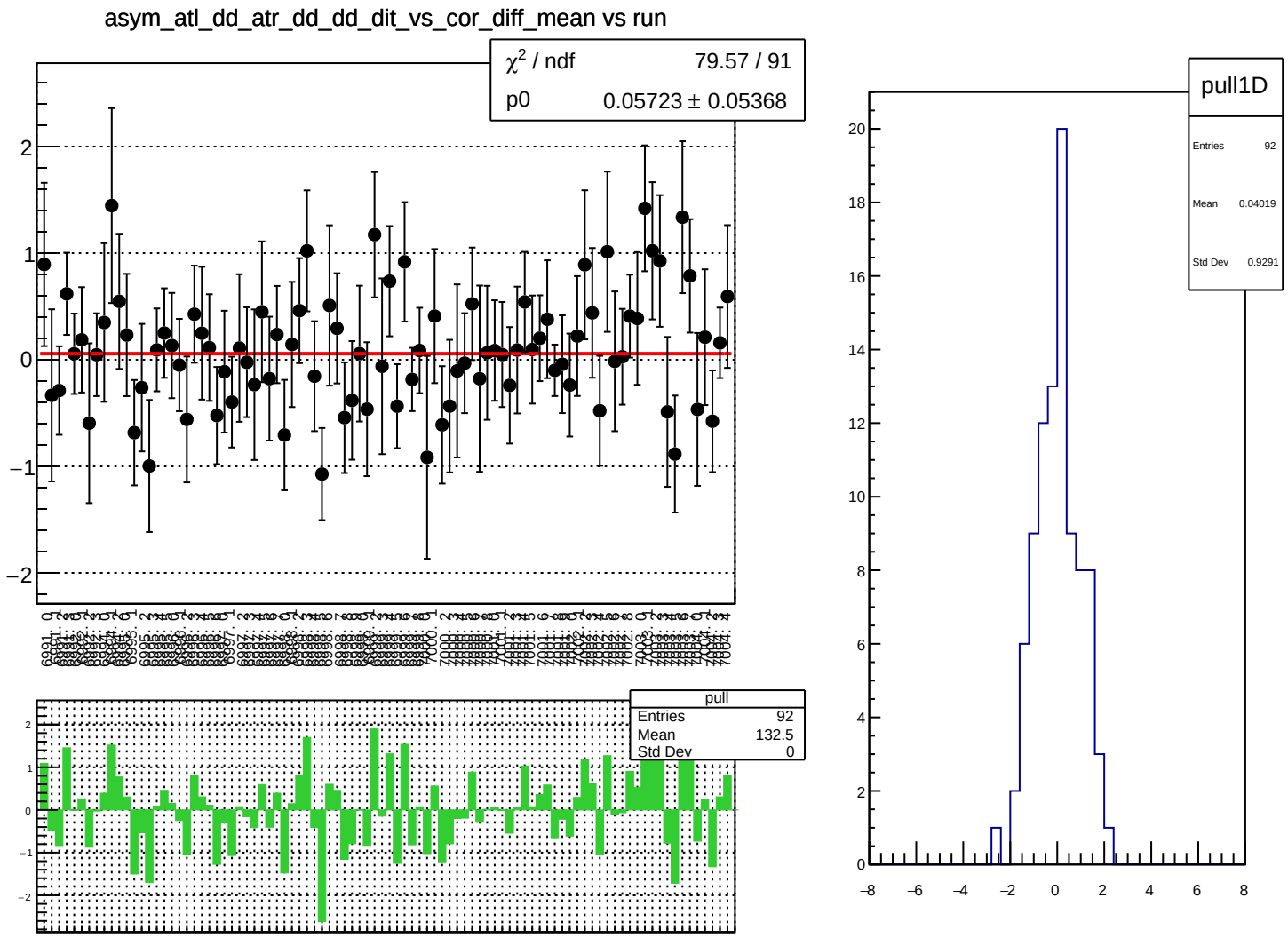

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3176 / 91
p0 668.7 ± 0.5038
740
720
700
680
660
640
620
600

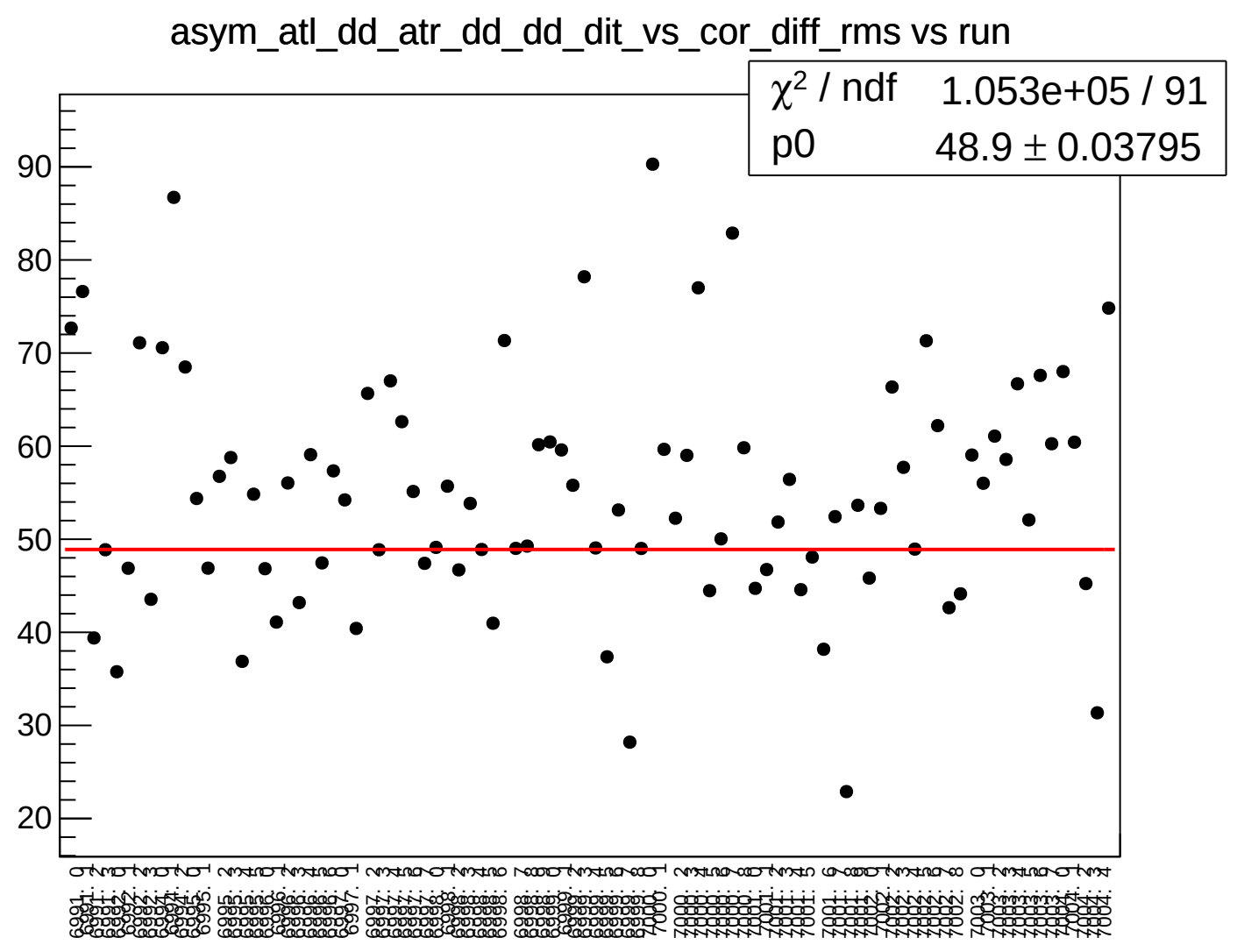

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.38 / 91
p0 −1607 ± 1517
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 472.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002171
Std Dev 0.9966
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

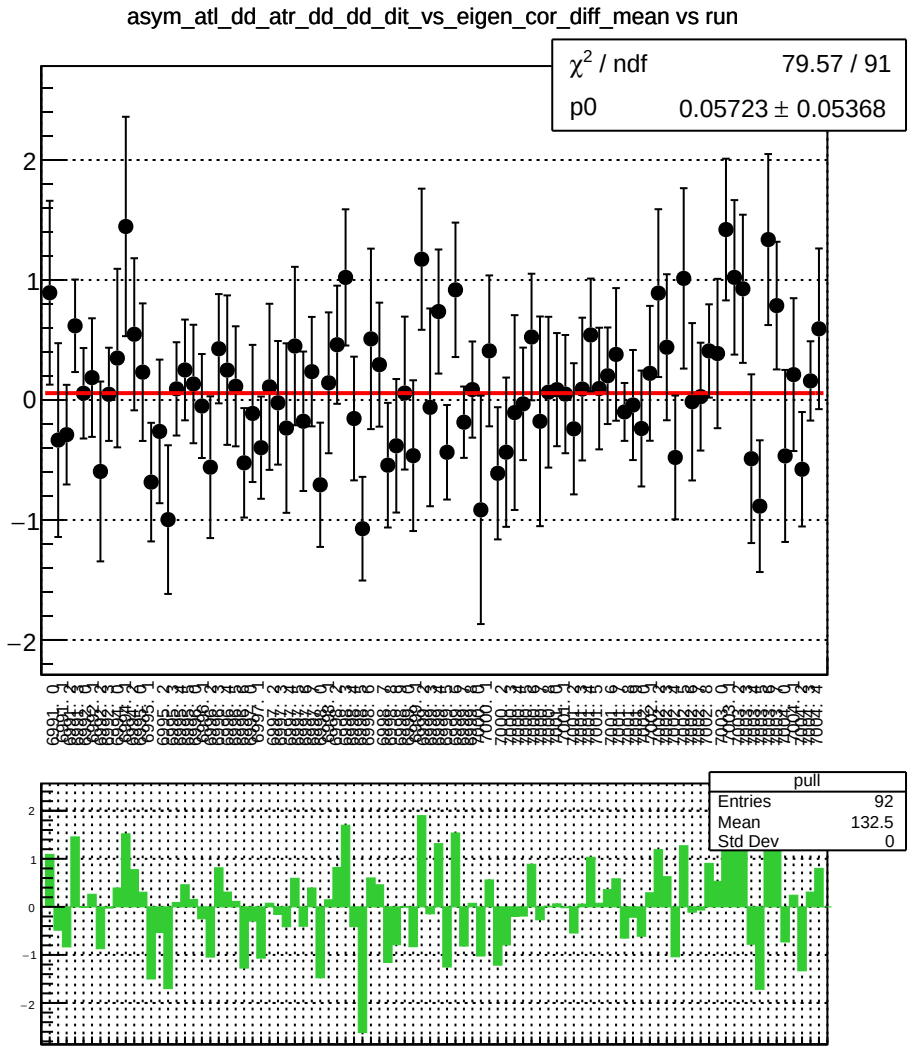

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 314.9 / 91
p0 1425 ± 1.073
1520
1500
1480
1460
1440
1420
1400
1380
1360

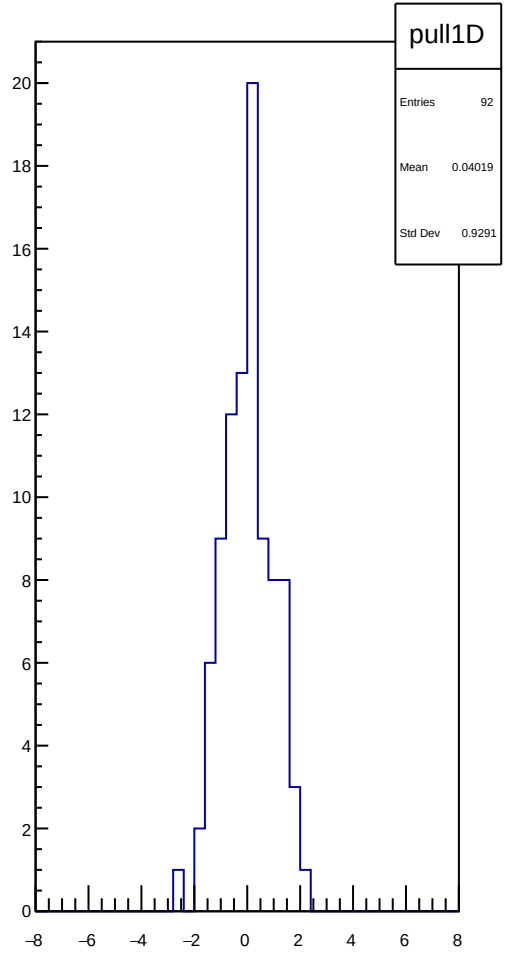

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109 / 91
p0 −5.839e−15 ± 2.38e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 78.05
Std Dev 32.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.07626
Std Dev 1.086
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

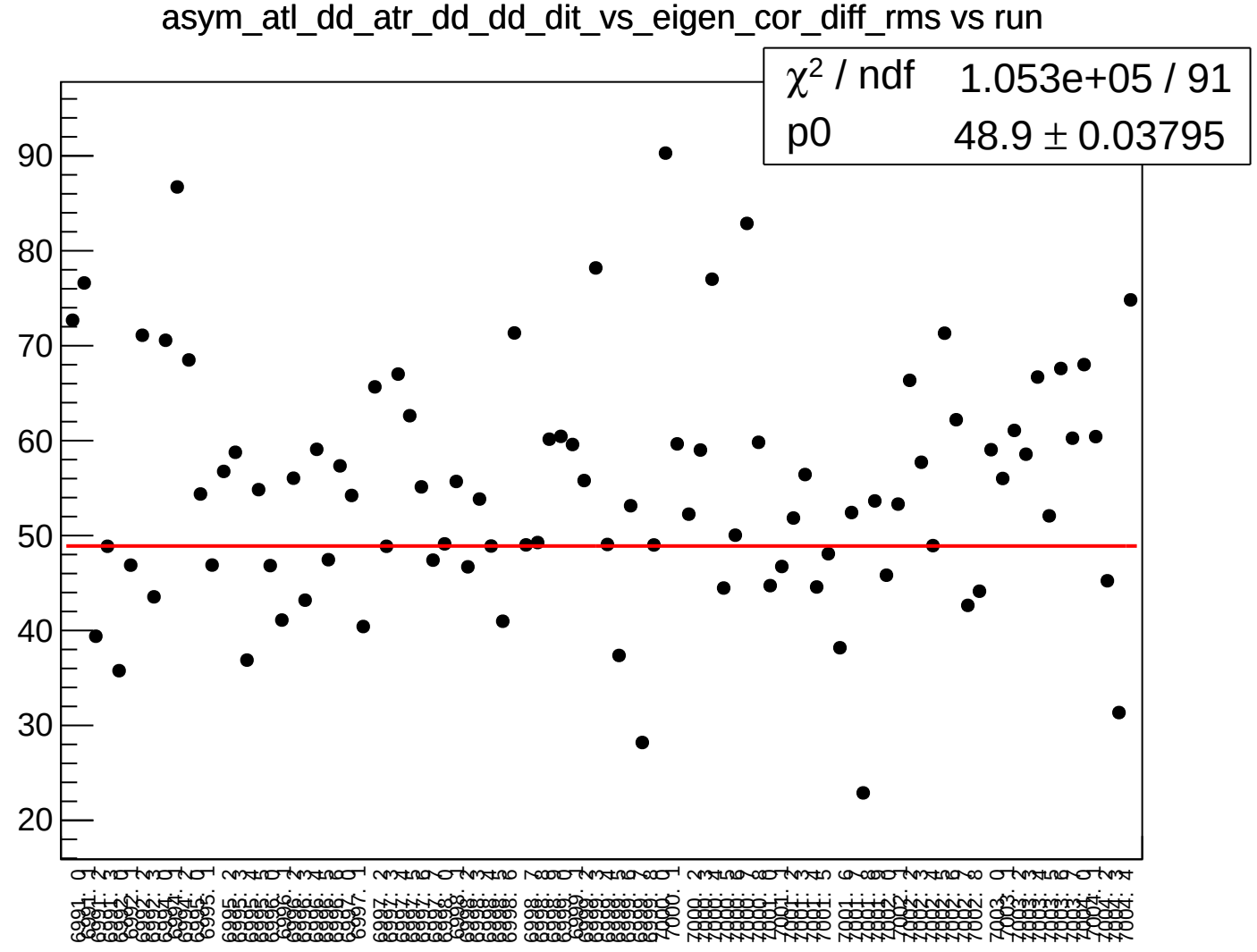

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.125e+06 / 91
p0 1.347e−11 ± 1.683e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

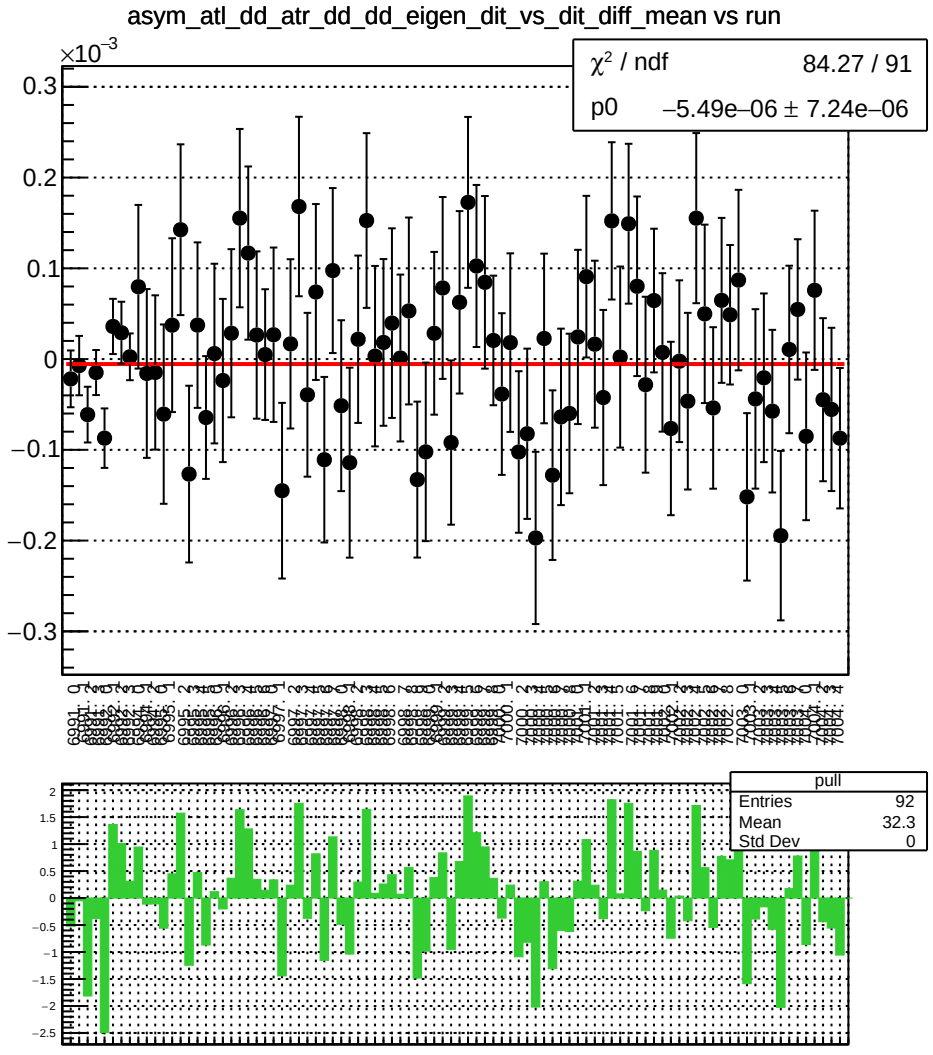

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.57 / 91
p0 0.05723 ± 0.05368
pull
Entries 92
Mean 132.5
Std Dev 0
pull1D
Entries 92
Mean 0.04019
Std Dev 0.9291

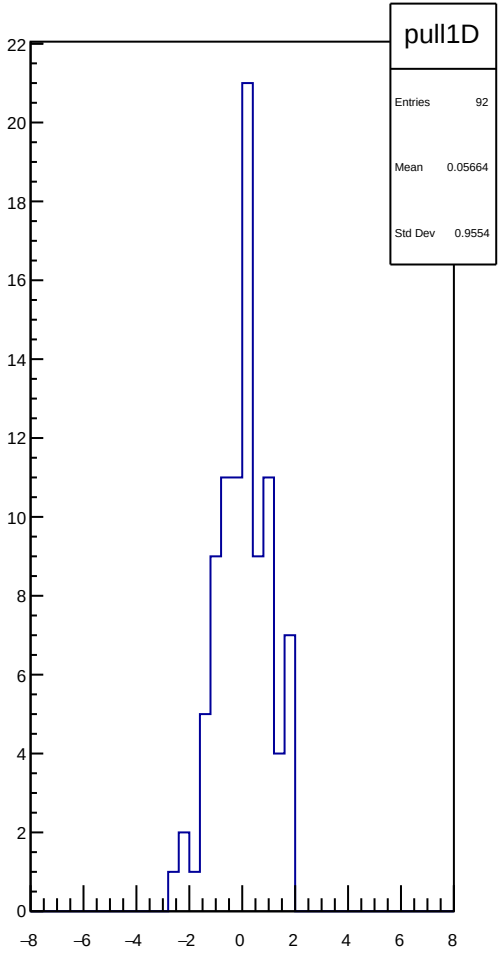

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 91
p0 48.9 ± 0.03795
90
80
70
60
50
40
30
20

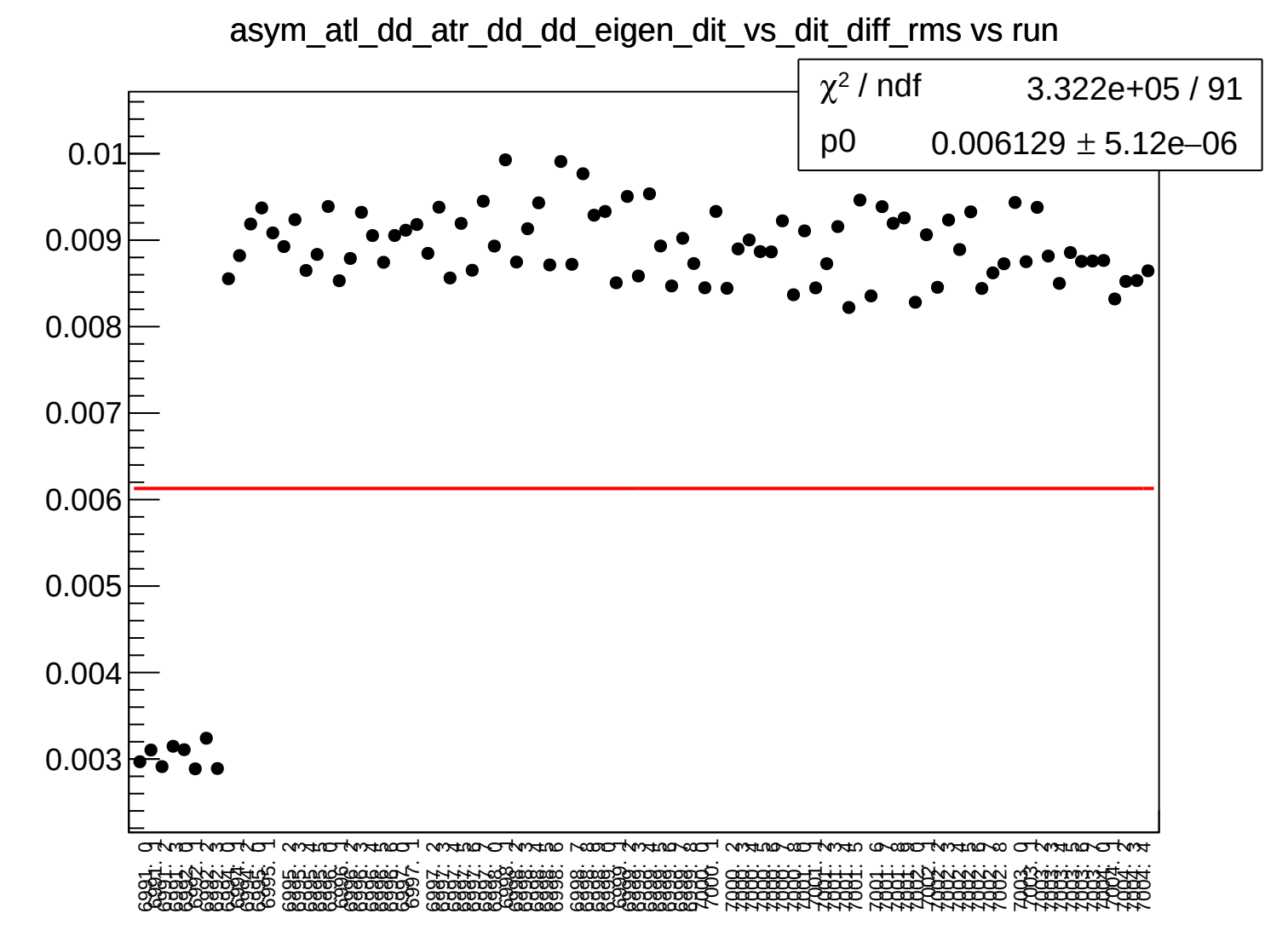

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.57 / 91
p0 0.05723 ± 0.05368
pull
Entries 92
Mean 132.5
Std Dev 0

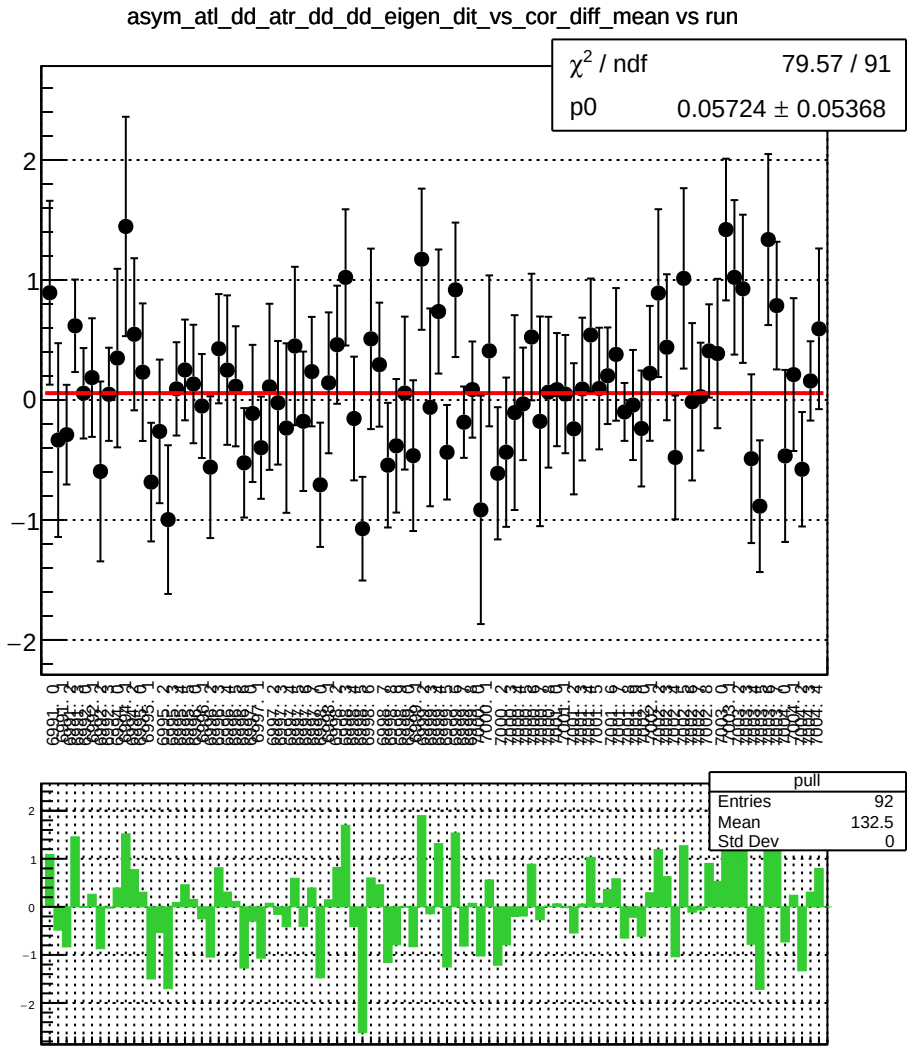

pull1D
Entries 92
Mean 0.04019
Std Dev 0.9291

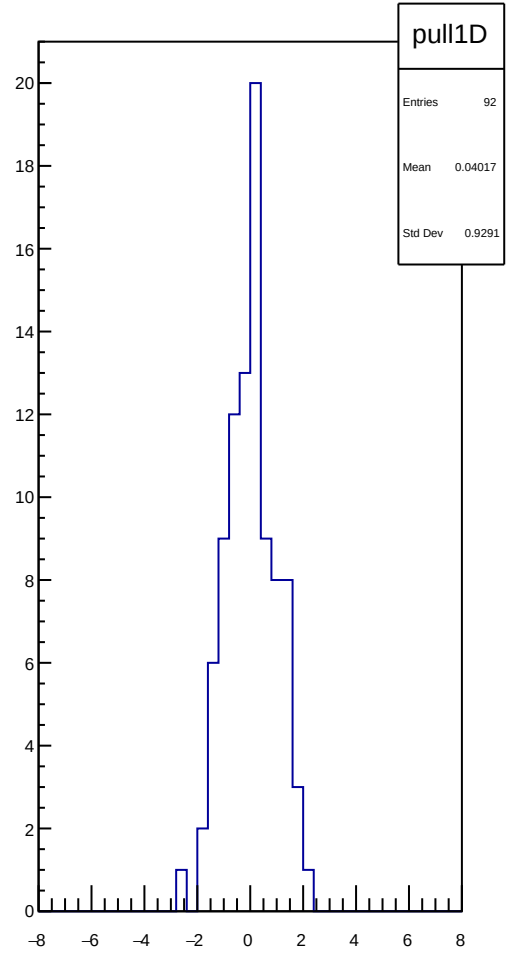

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 91
p0 48.9 ± 0.03795
90
80
70
60
50
40
30
20

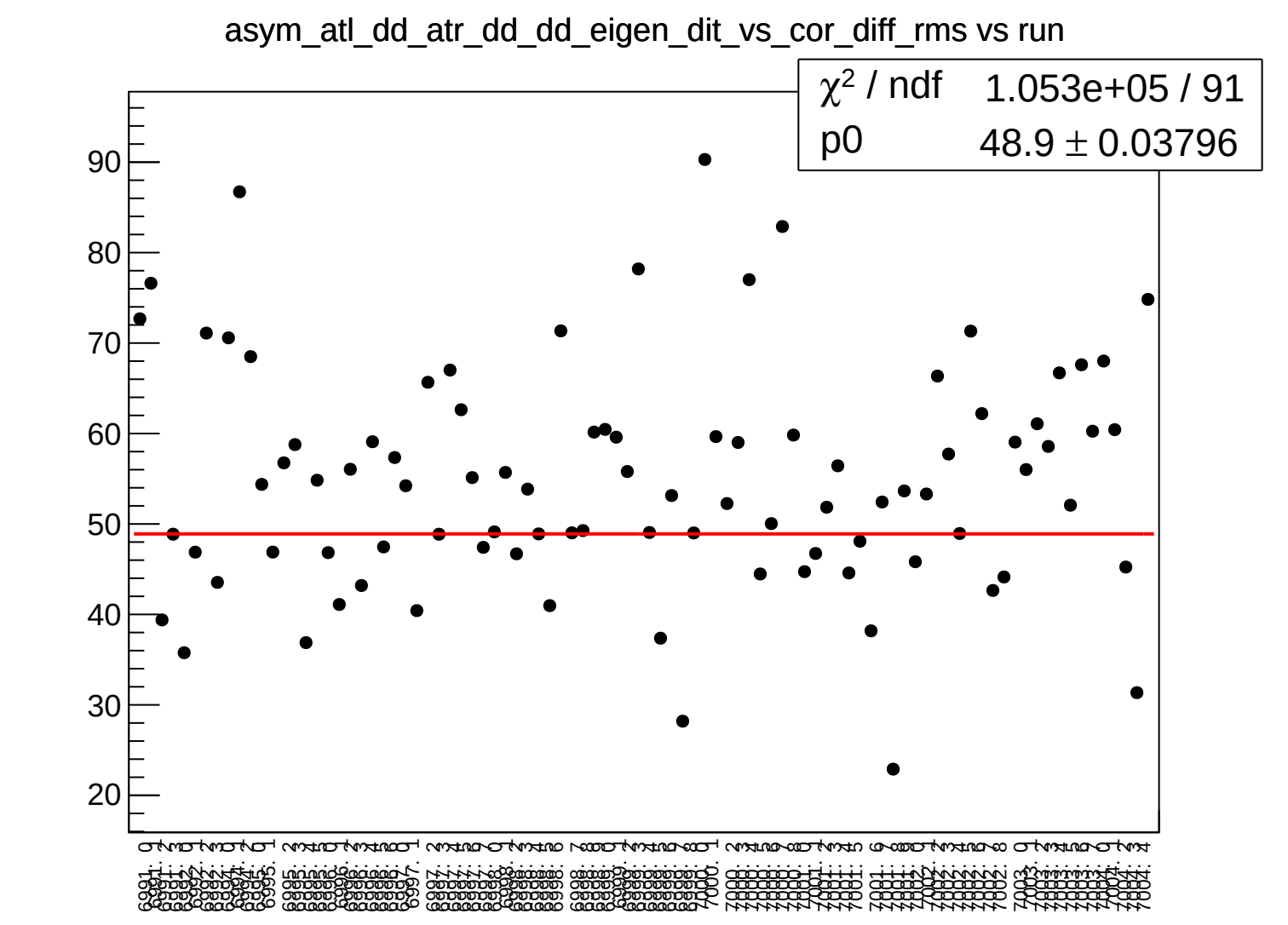

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.27 / 91
p0 −5.49e−06 ± 7.24e−06
pull
Entries 92
Mean 32.3
Std Dev 0

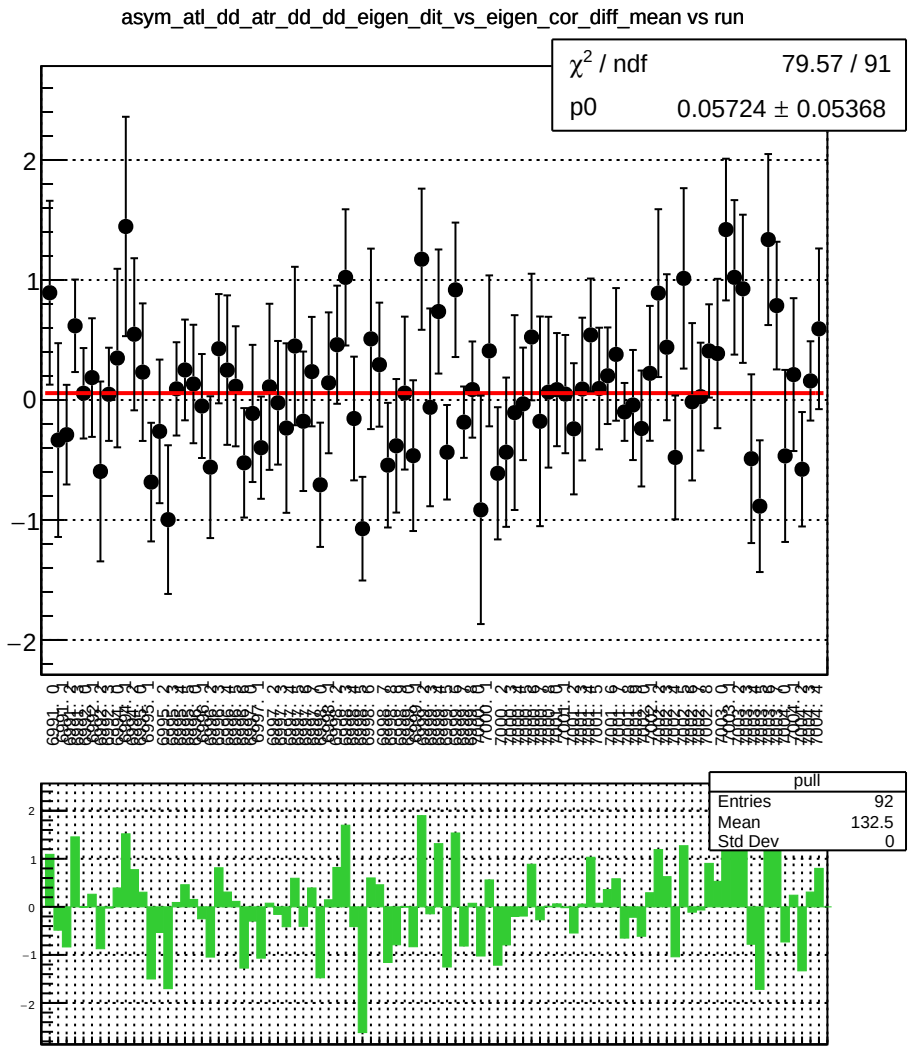

pull1D
Entries 92
Mean 0.05664
Std Dev 0.9554

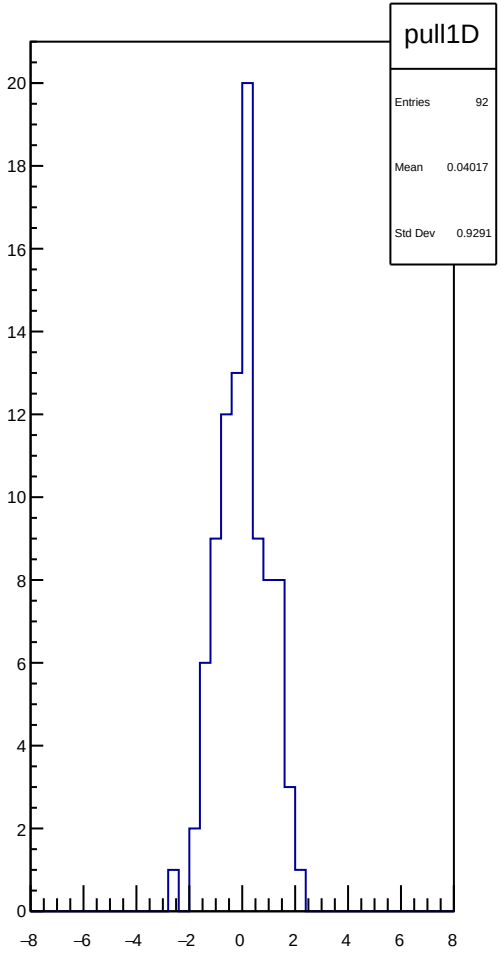

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.322e+05 / 91
p0 0.006129 ± 5.12e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

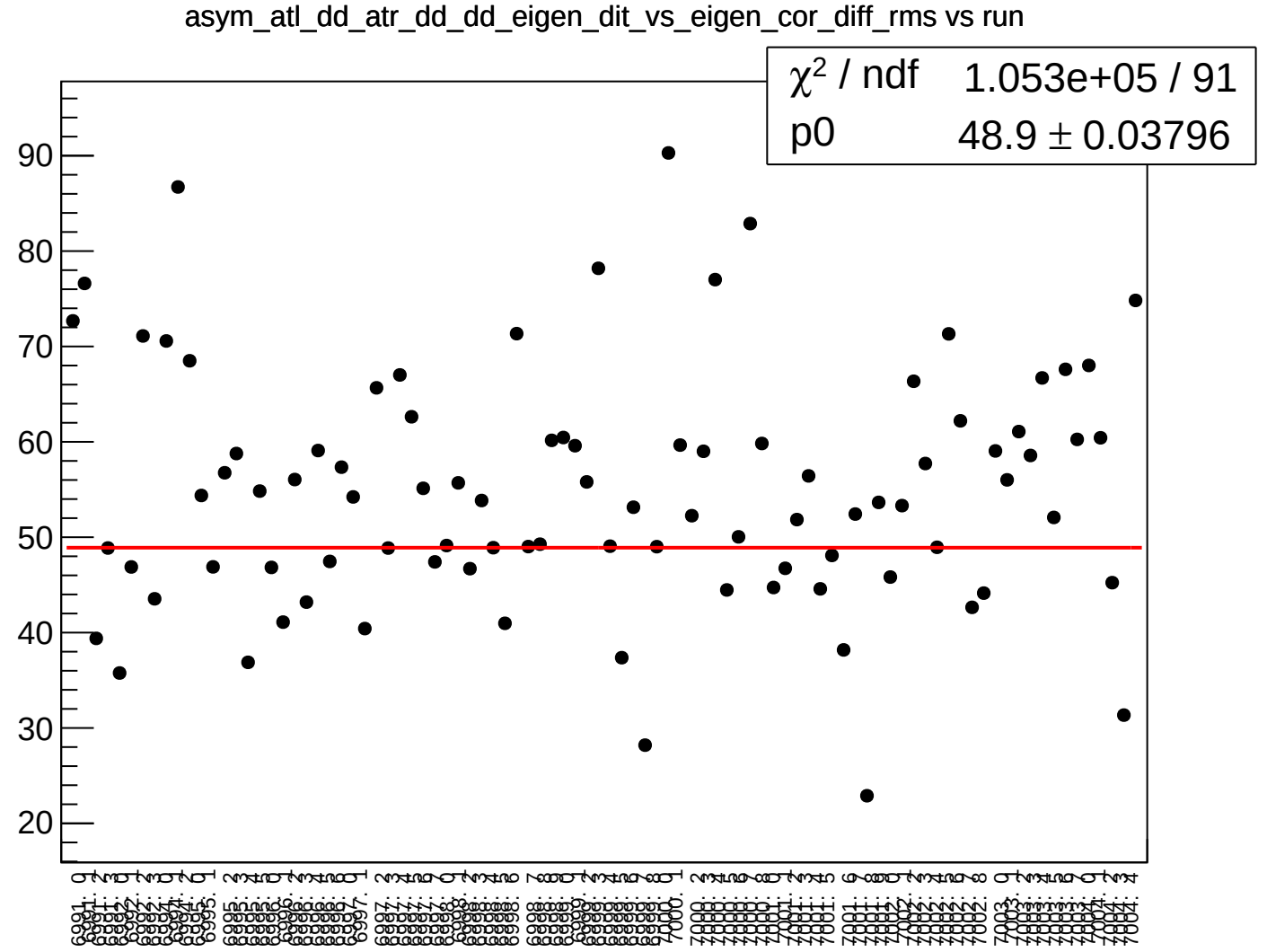

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.57 / 91
p0 0.05724 ± 0.05368
pull
Entries 92
Mean 132.5
Std Dev 0

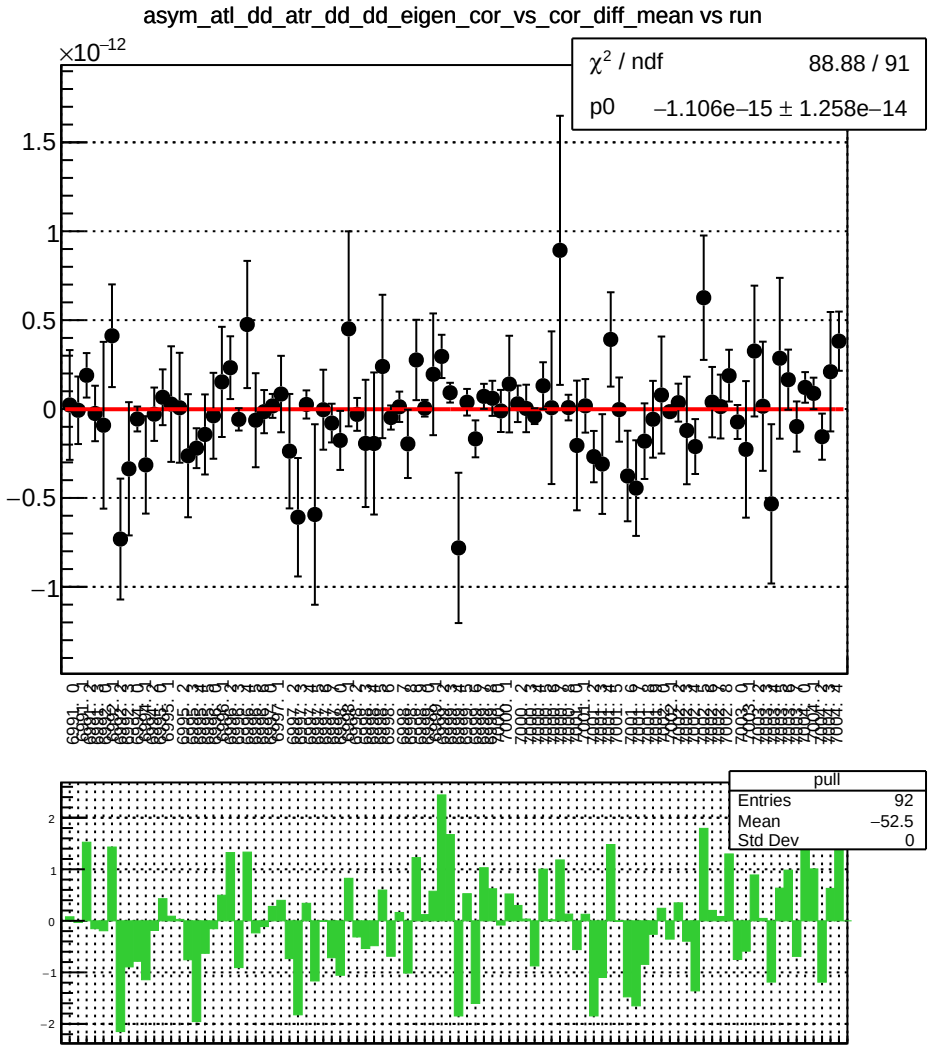

pull1D
Entries 92
Mean 0.04017
Std Dev 0.9291

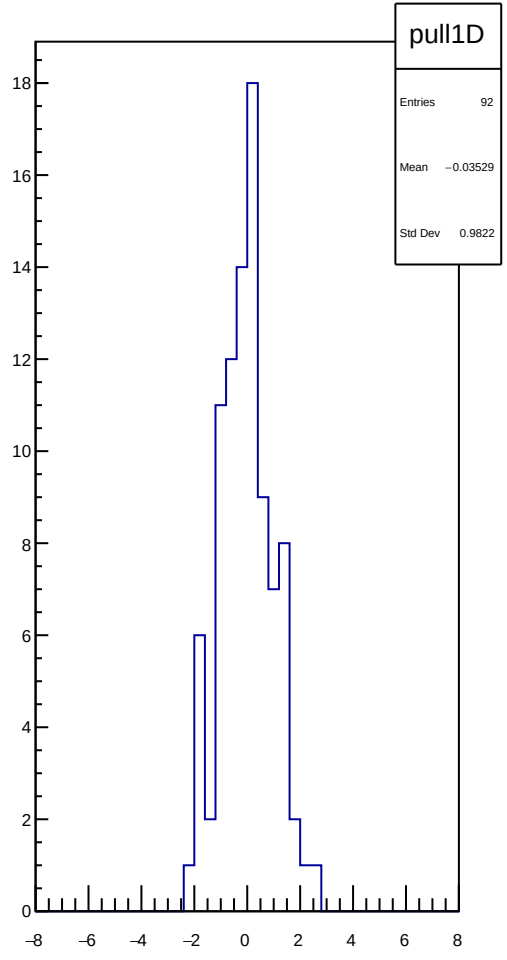

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 91
p0 48.9 ± 0.03796
90
80
70
60
50
40
30
20

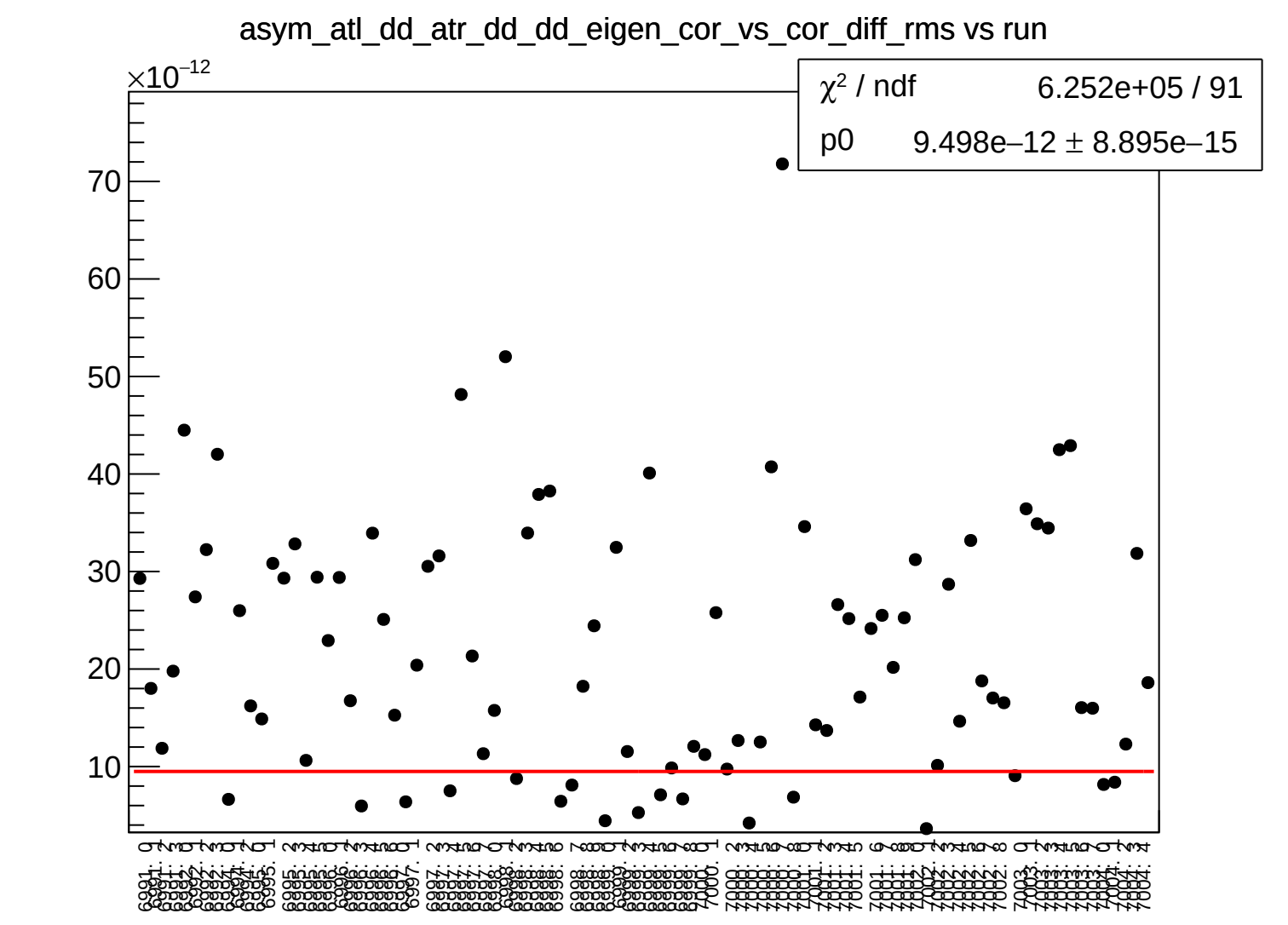

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.57 / 91
p0 0.05724 ± 0.05368
pull
Entries 92
Mean 132.5
Std Dev 0

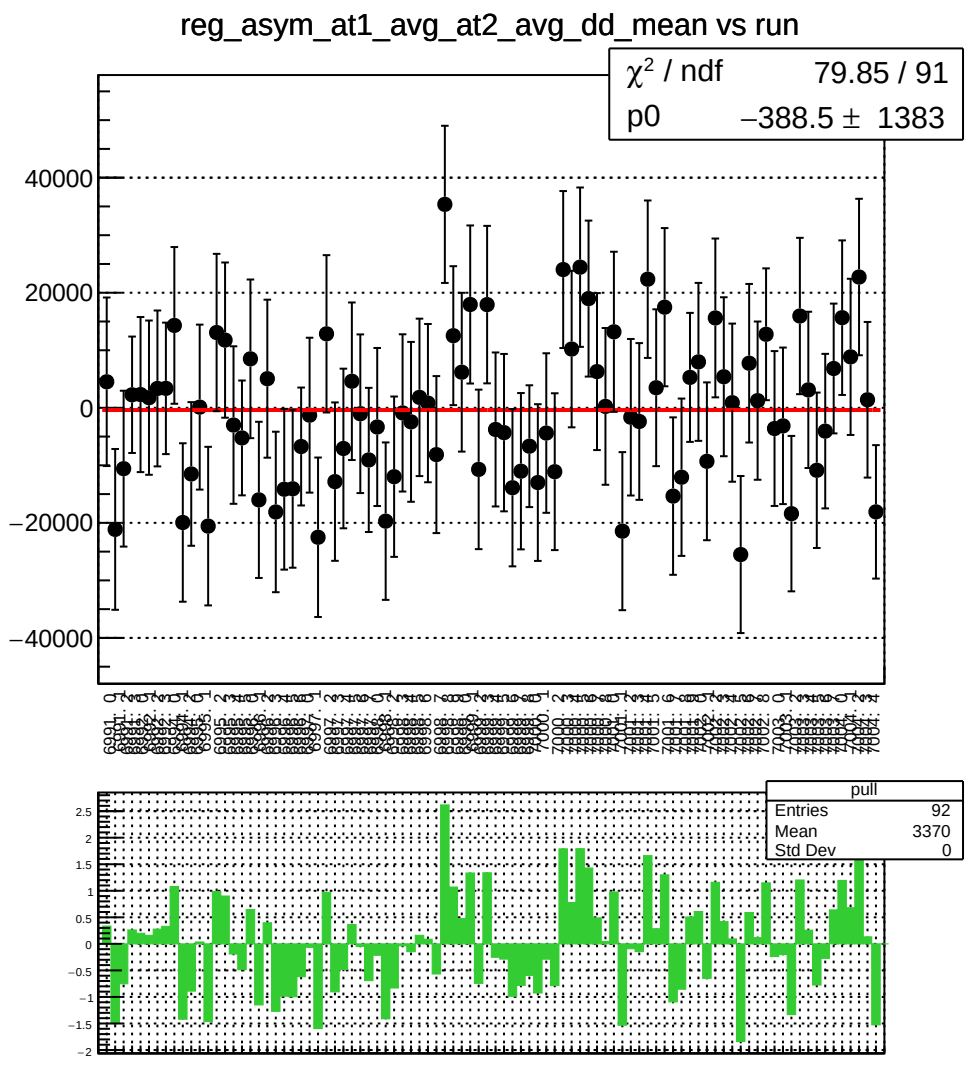

pull1D
Entries 92
Mean 0.04017
Std Dev 0.9291

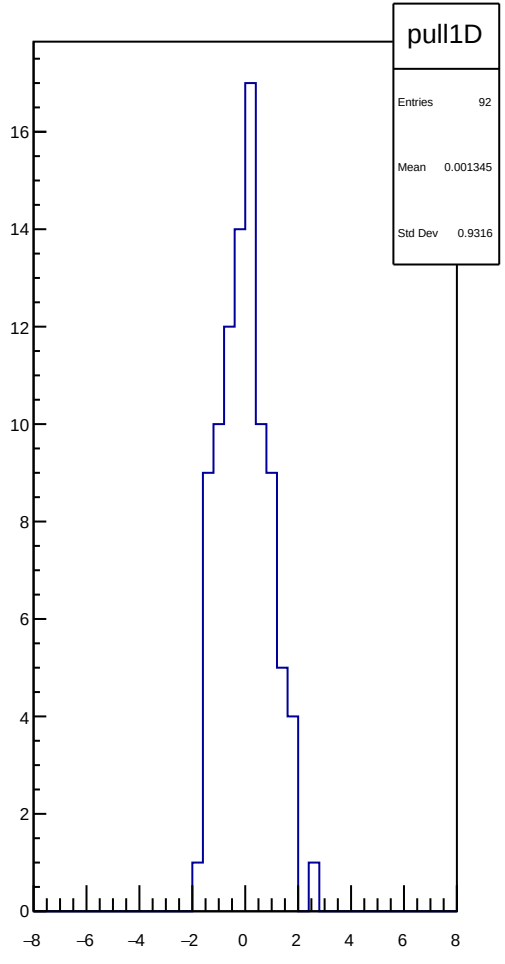

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 91
p0 48.9 ± 0.03796
90
80
70
60
50
40
30
20

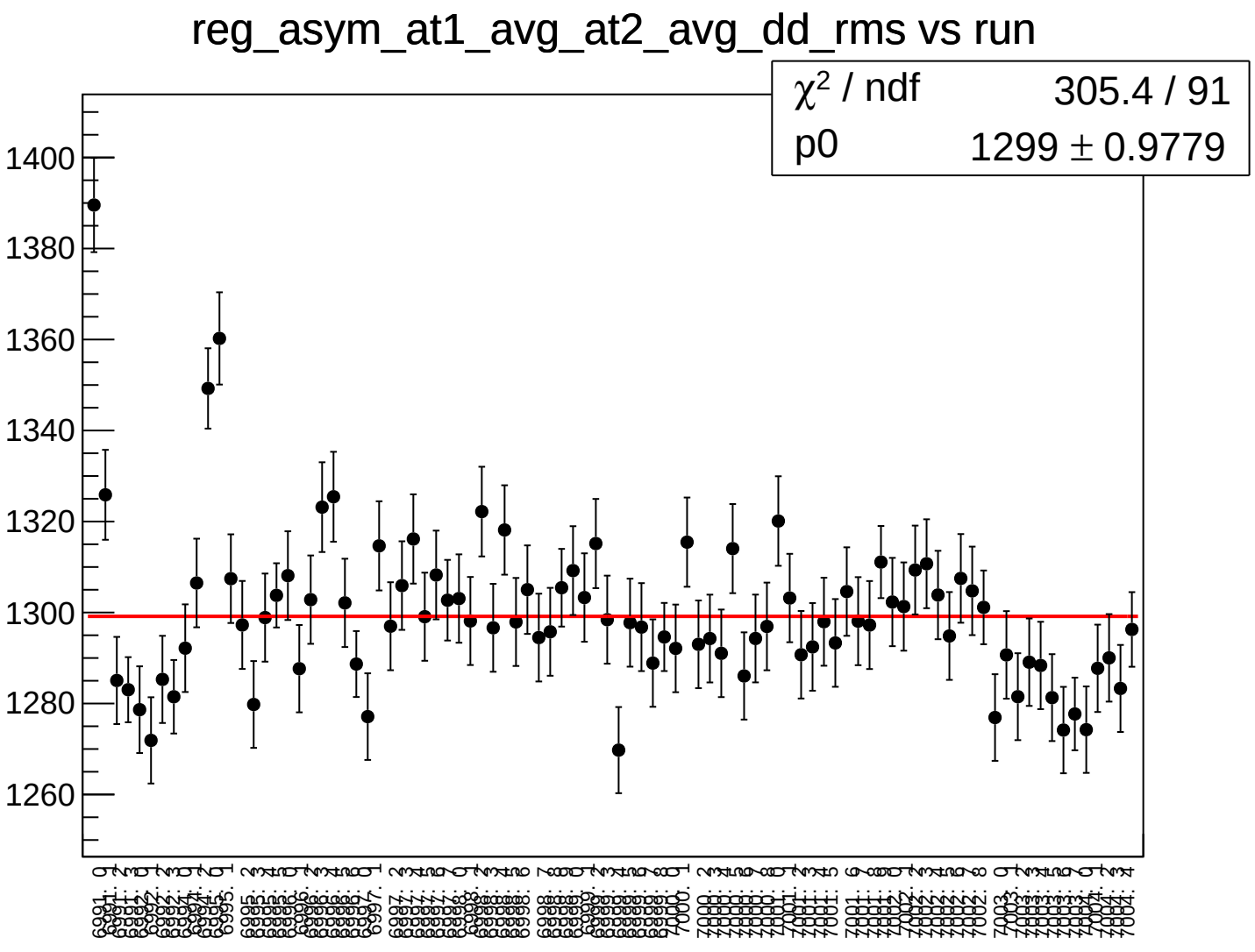

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.88 / 91
p0 −1.106e−15 ± 1.258e−14
pull
Entries 92
Mean −52.5
Std Dev 0

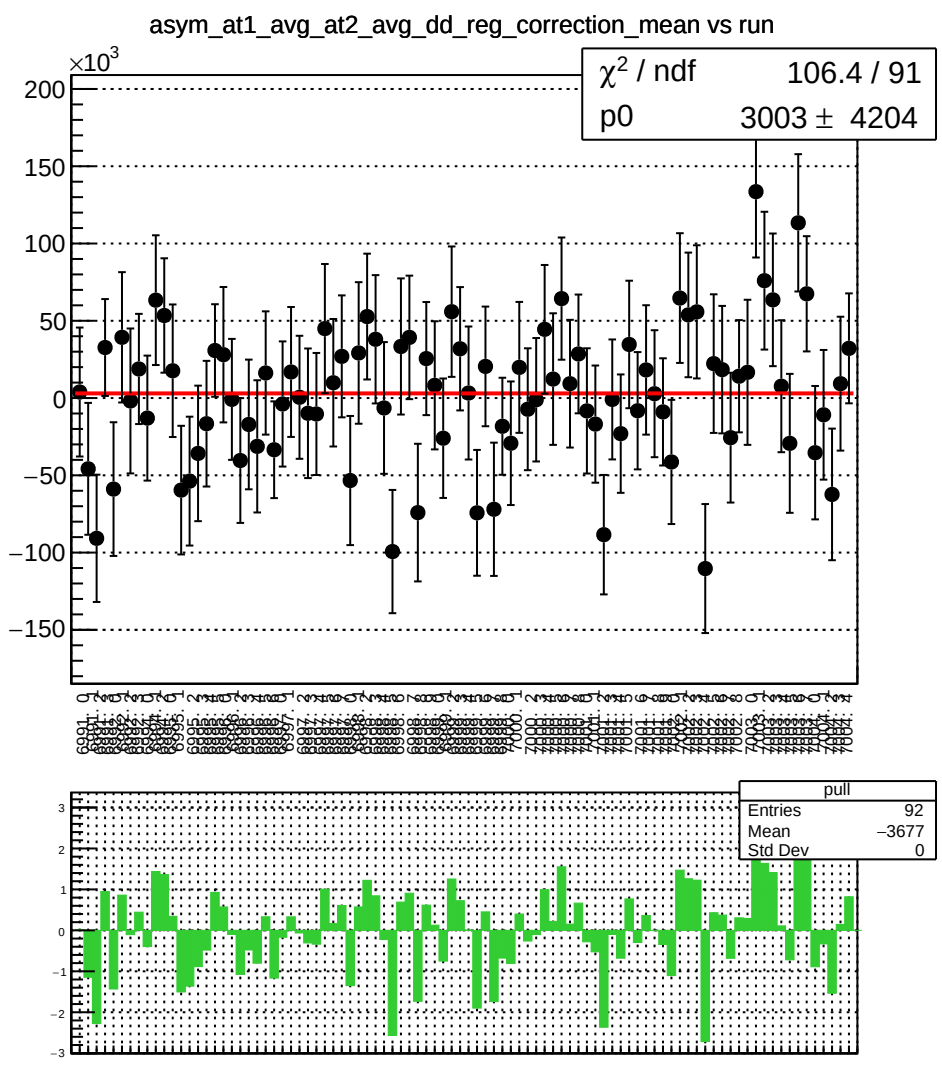

pull1D
Entries 92
Mean −0.03529
Std Dev 0.9822

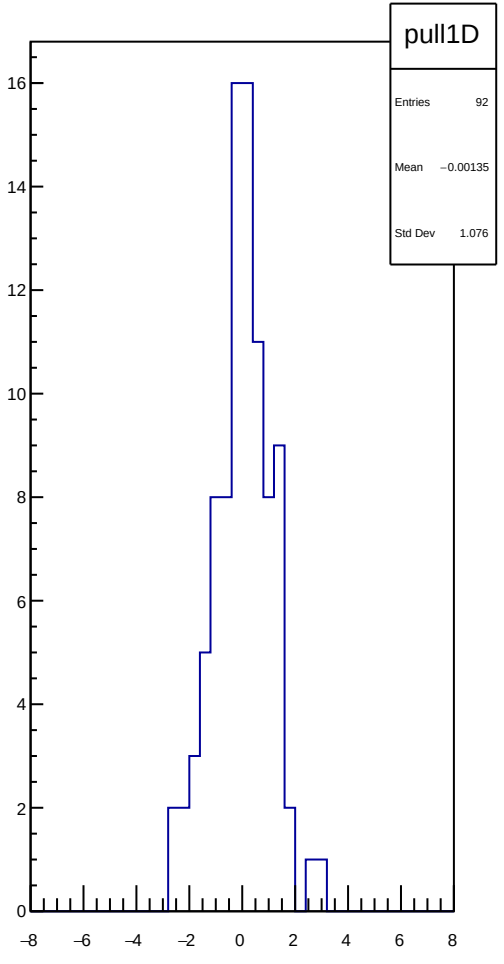

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.252e+05 / 91
p0 9.498e−12 ± 8.895e−15
70
60
50
40
30
20
10

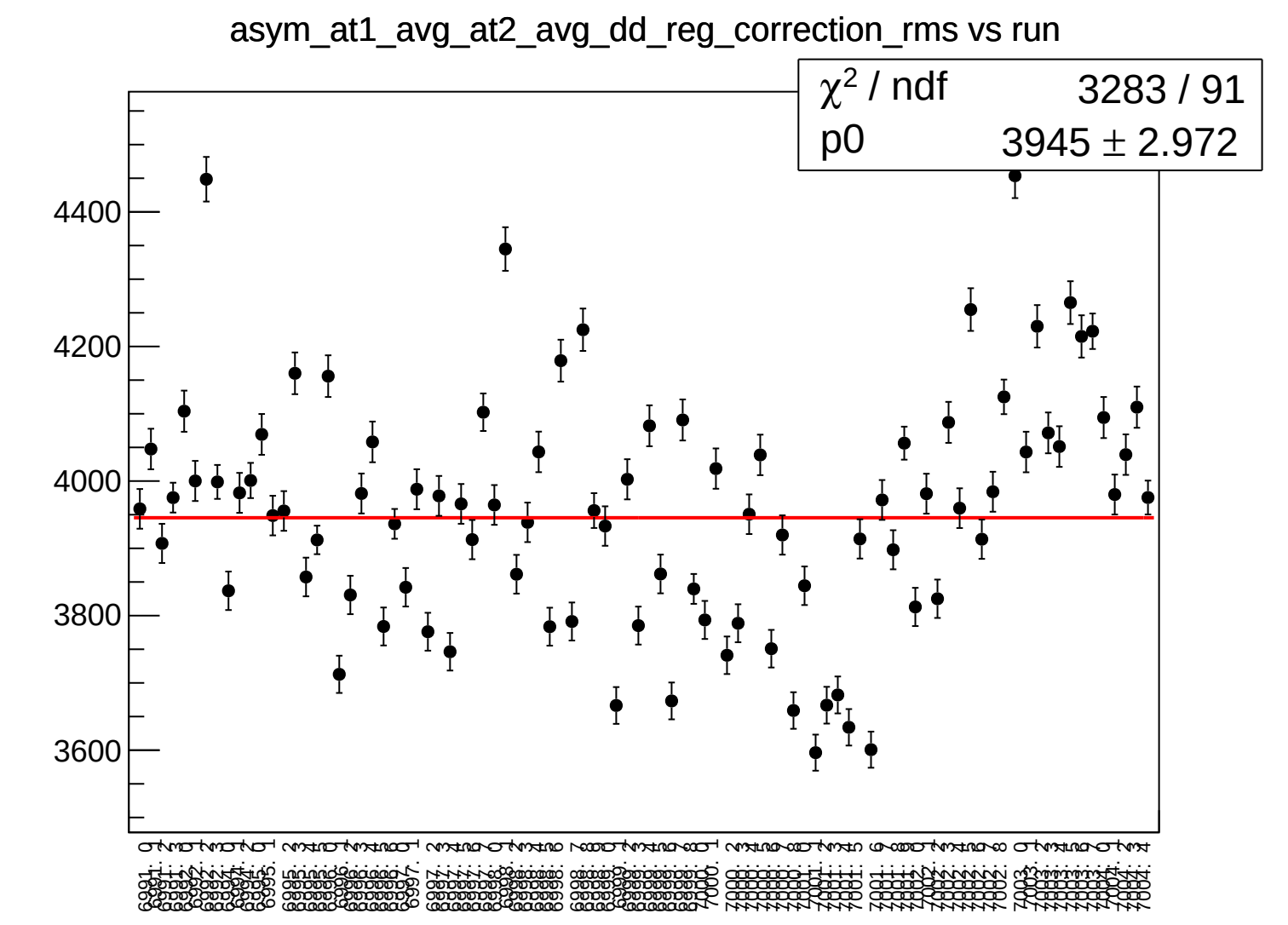

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 79.85 / 91
p0 −388.5 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 3370
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

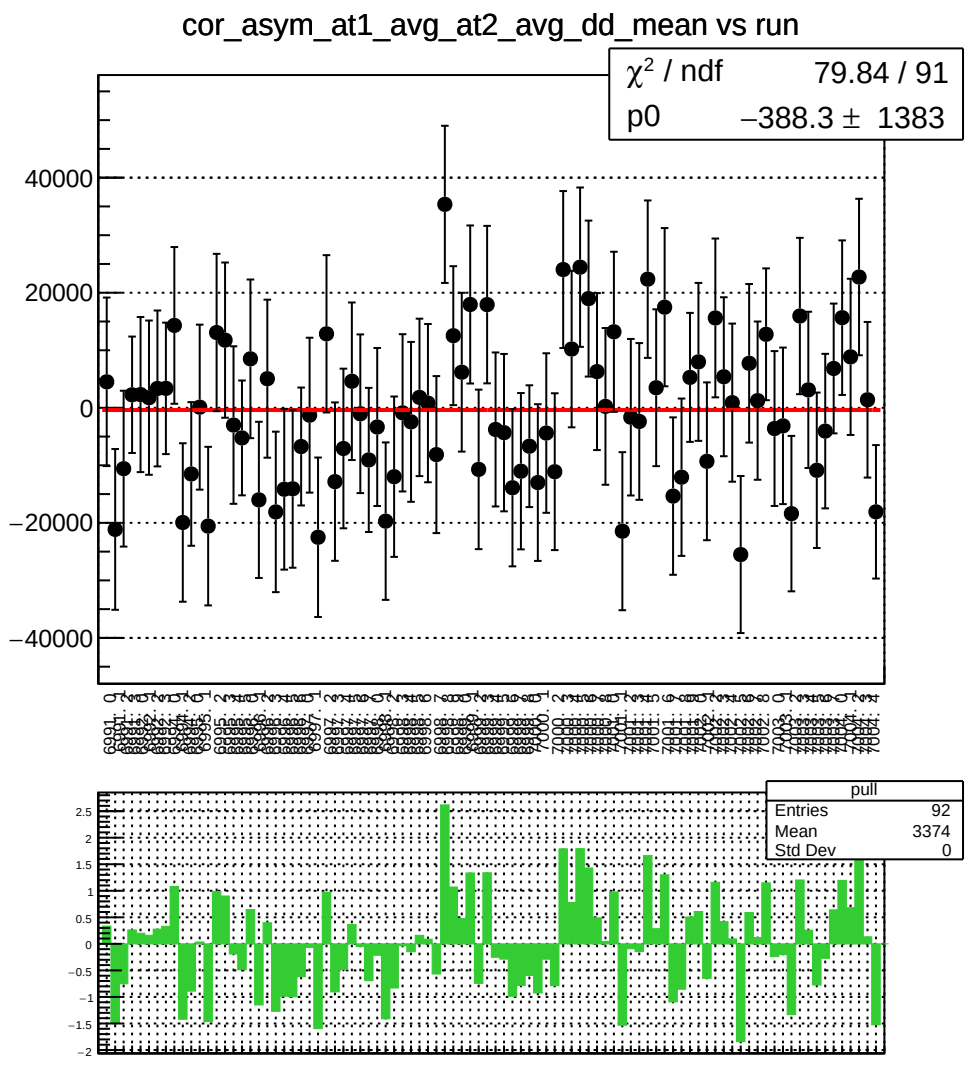

pull1D
Entries 92
Mean 0.001345
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

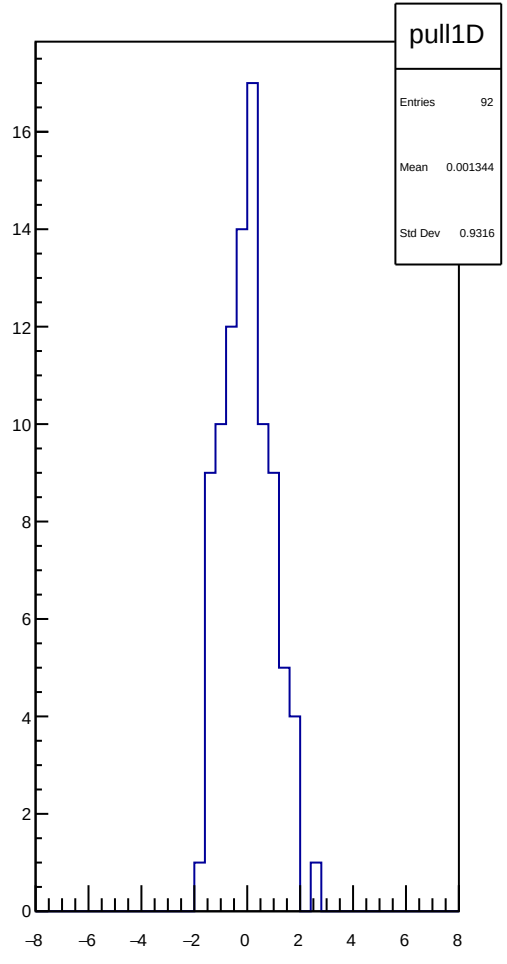

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 305.4 / 91
p0 1299 ± 0.9779
1400
1380
1360
1340
1320
1300
1280
1260

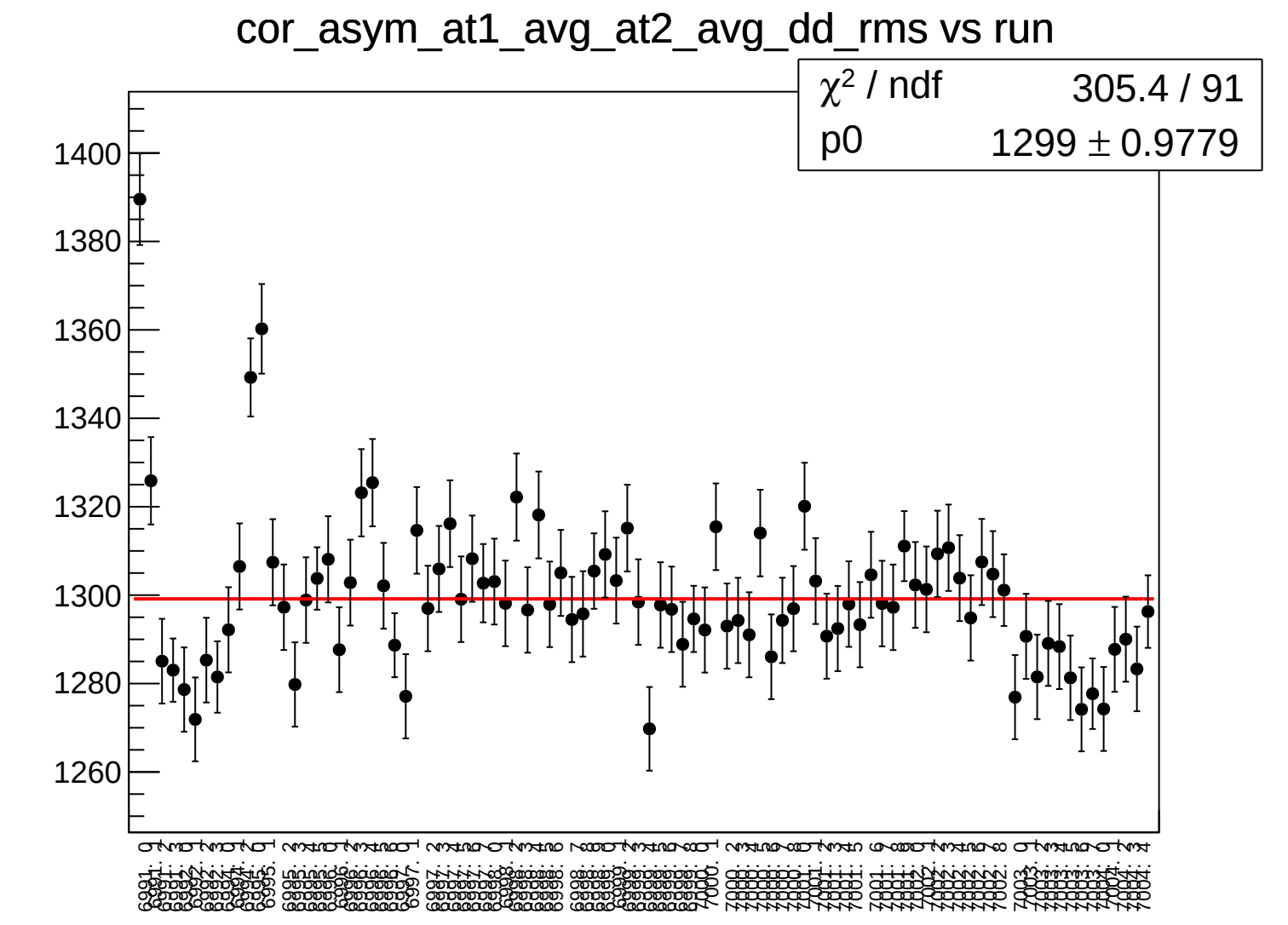

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 3003 ± 4204
pull
Entries 92
Mean −3677
Std Dev 0

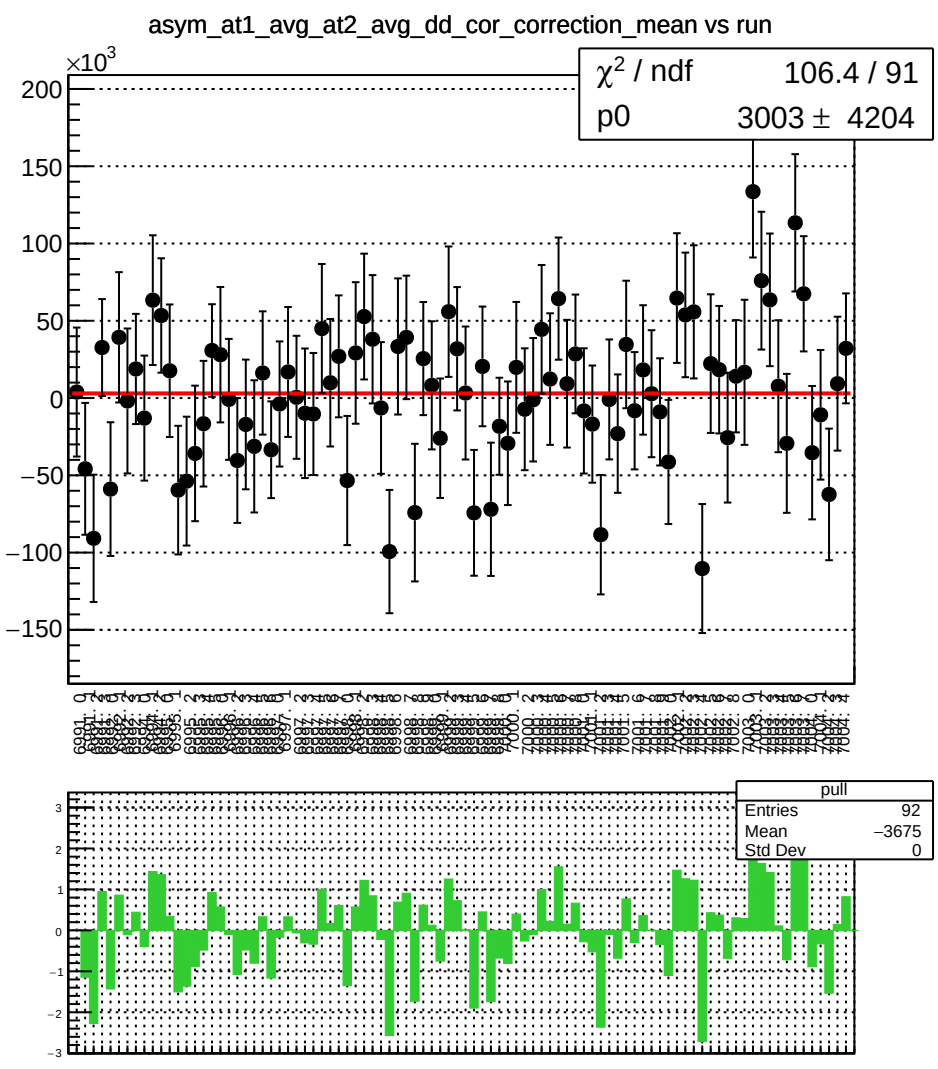

pull1D
Entries 92
Mean −0.00135
Std Dev 1.076

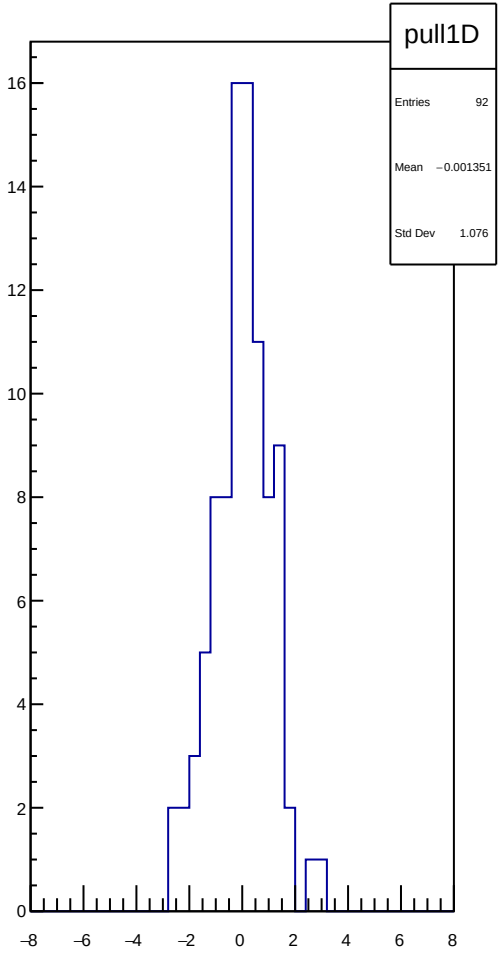

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 3283 / 91
p0 3945 ± 2.972
4400
4200
4000
3800
3600

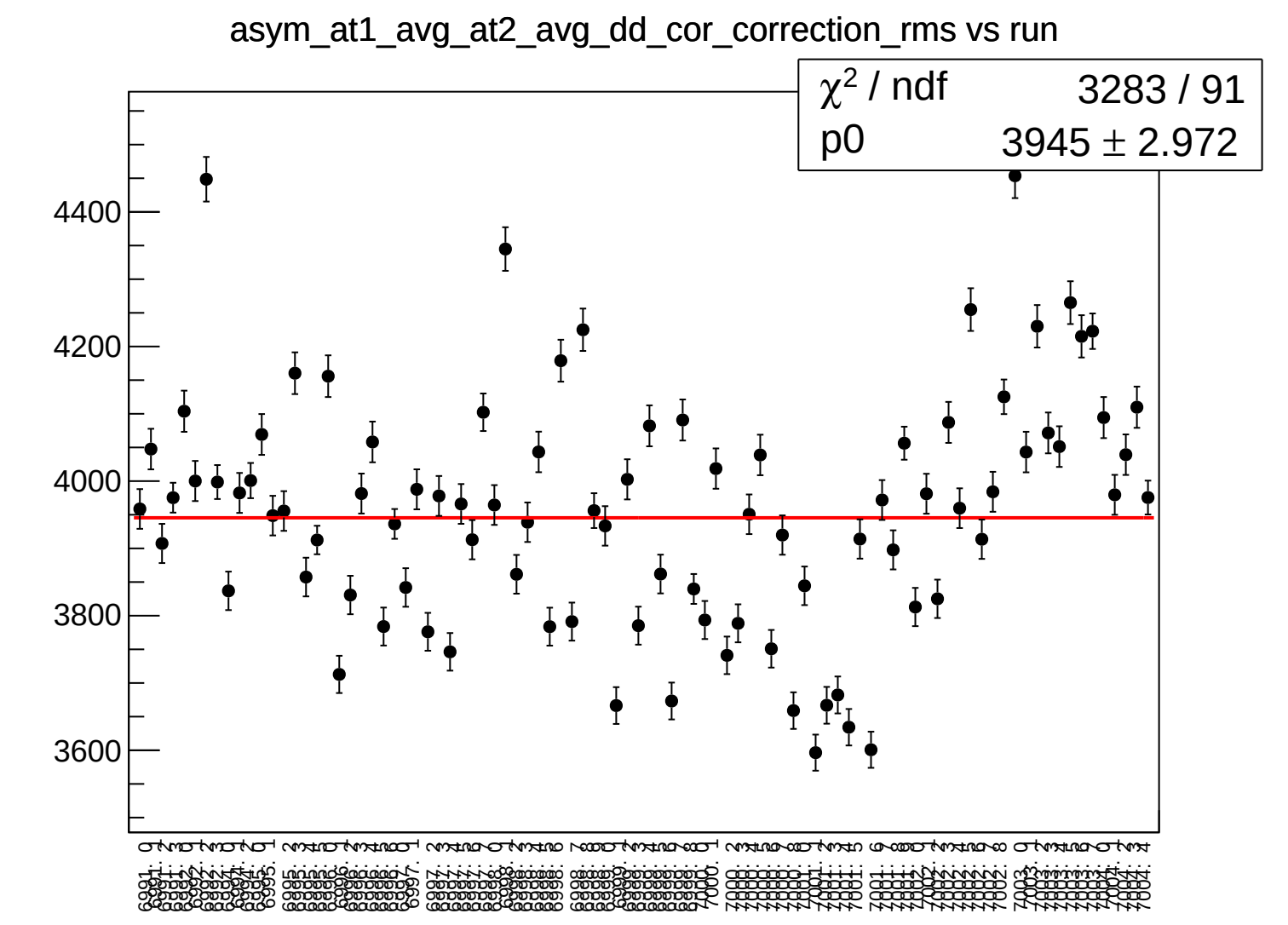

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 79.84 / 91
p0 −388.3 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 3374
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

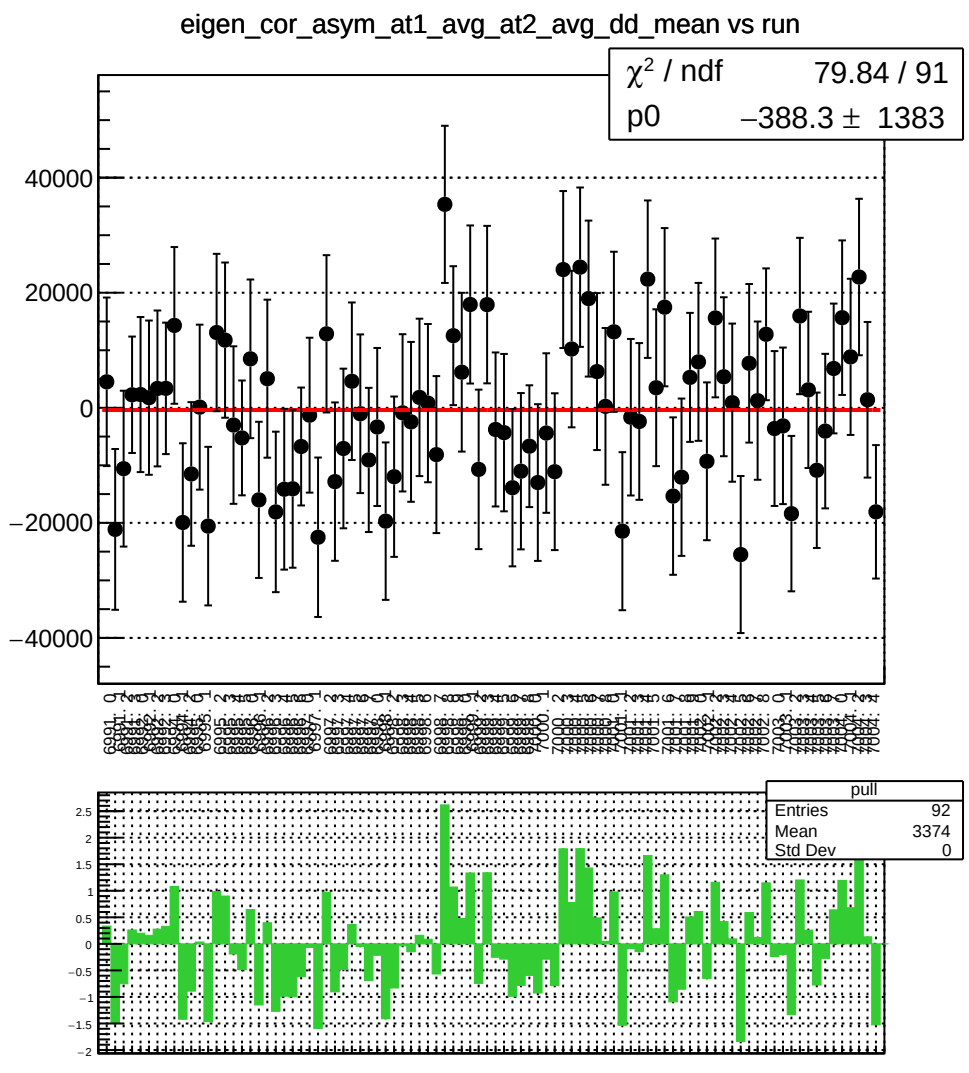

pull1D
Entries 92
Mean 0.001344
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

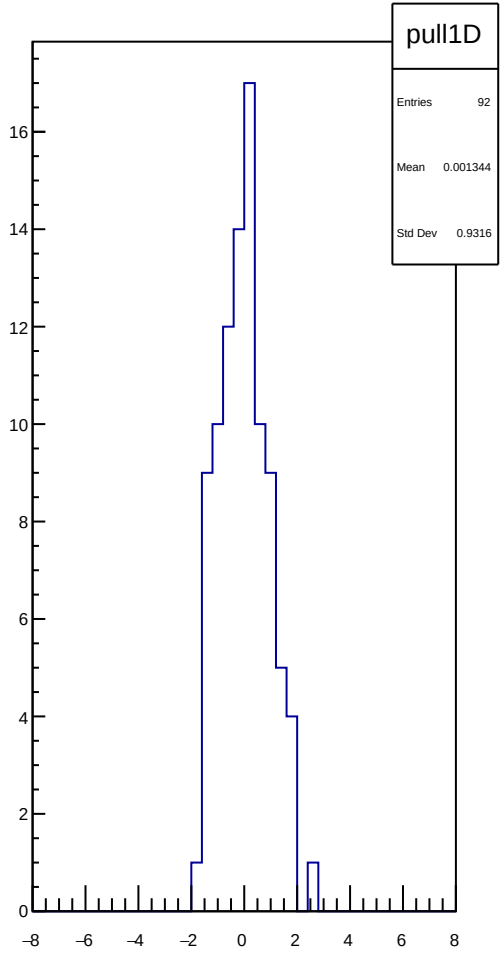

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 305.4 / 91
p0 1299 ± 0.9779
1400
1380
1360
1340
1320
1300
1280
1260

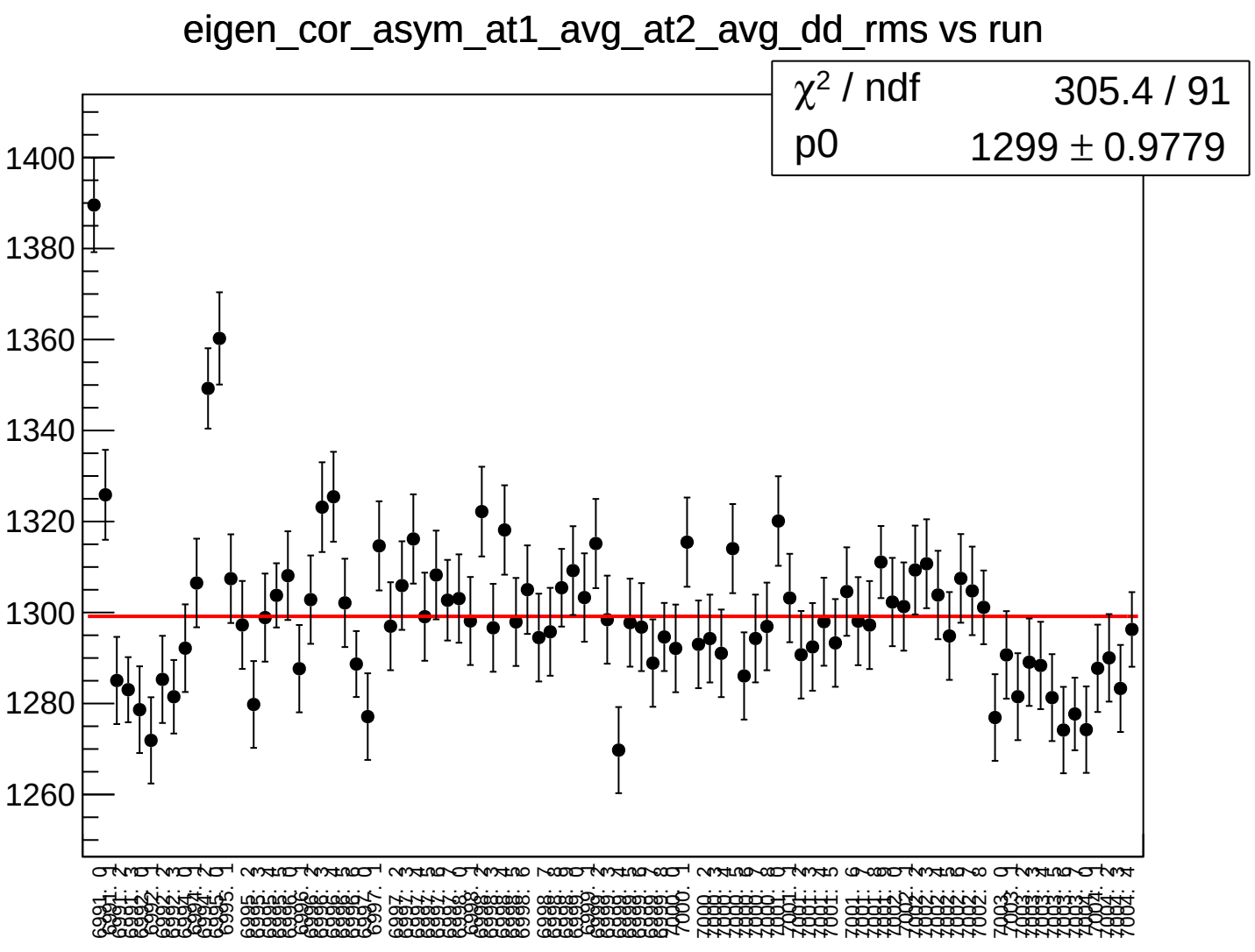

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 3003 ± 4204
pull
Entries 92
Mean −3675
Std Dev 0

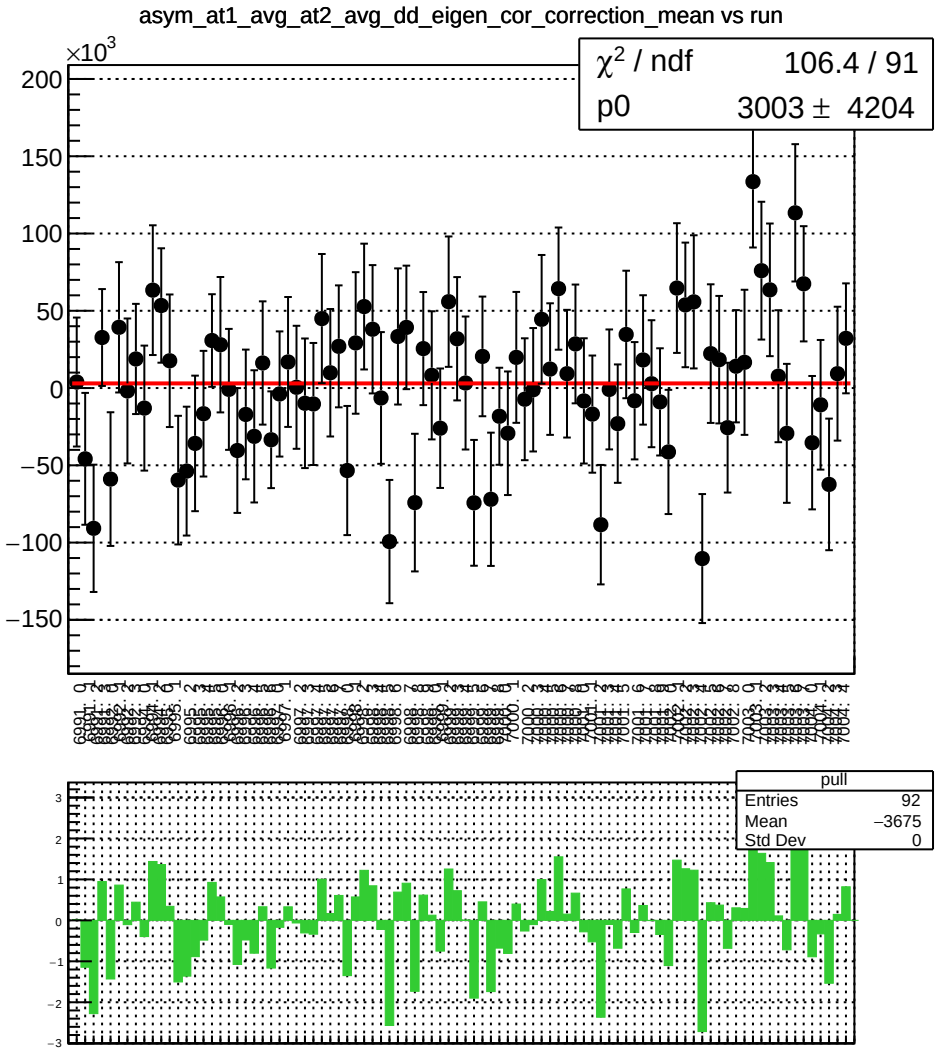

pull1D
Entries 92
Mean −0.001351
Std Dev 1.076

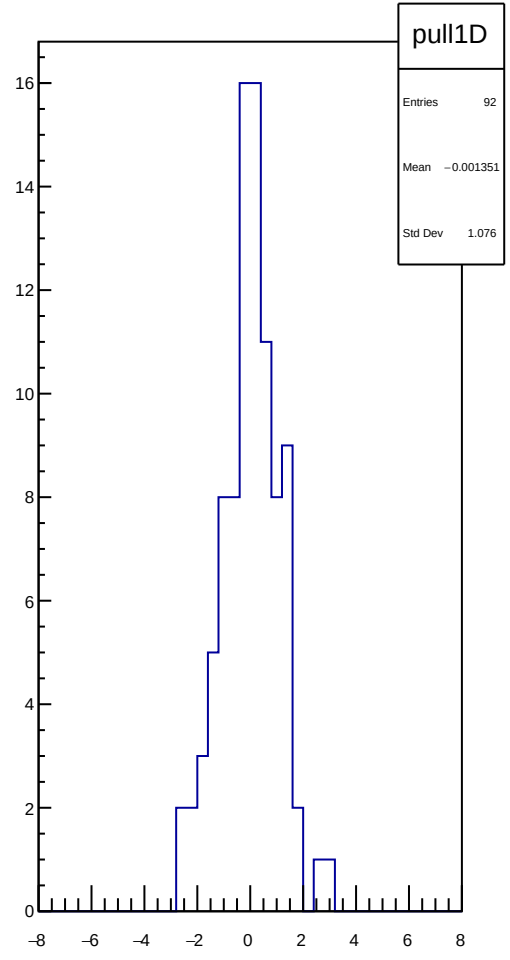

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 3283 / 91
p0 3945 ± 2.972
4400
4200
4000
3800
3600

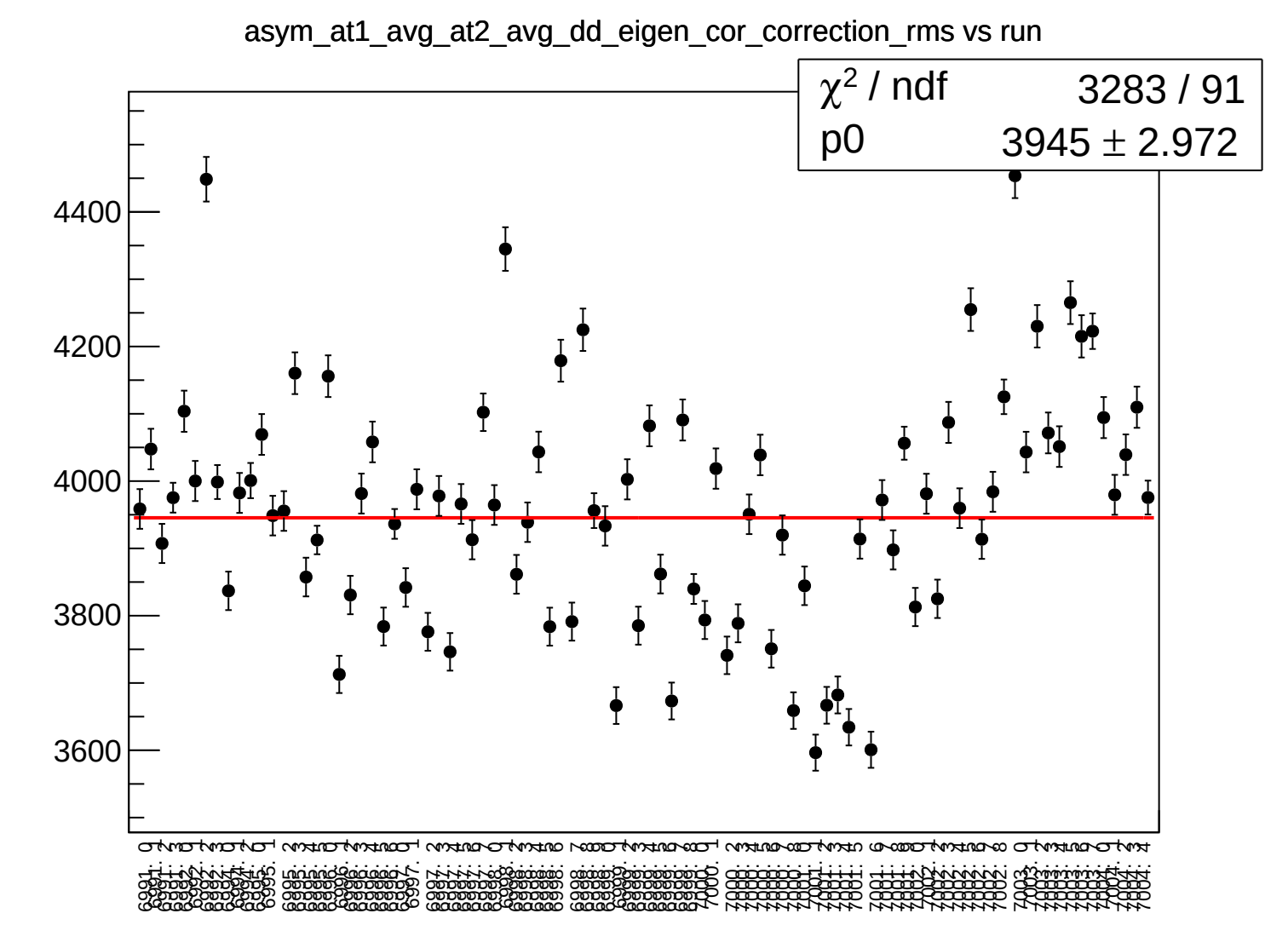

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 79.84 / 91
p0 −388.3 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 3374
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

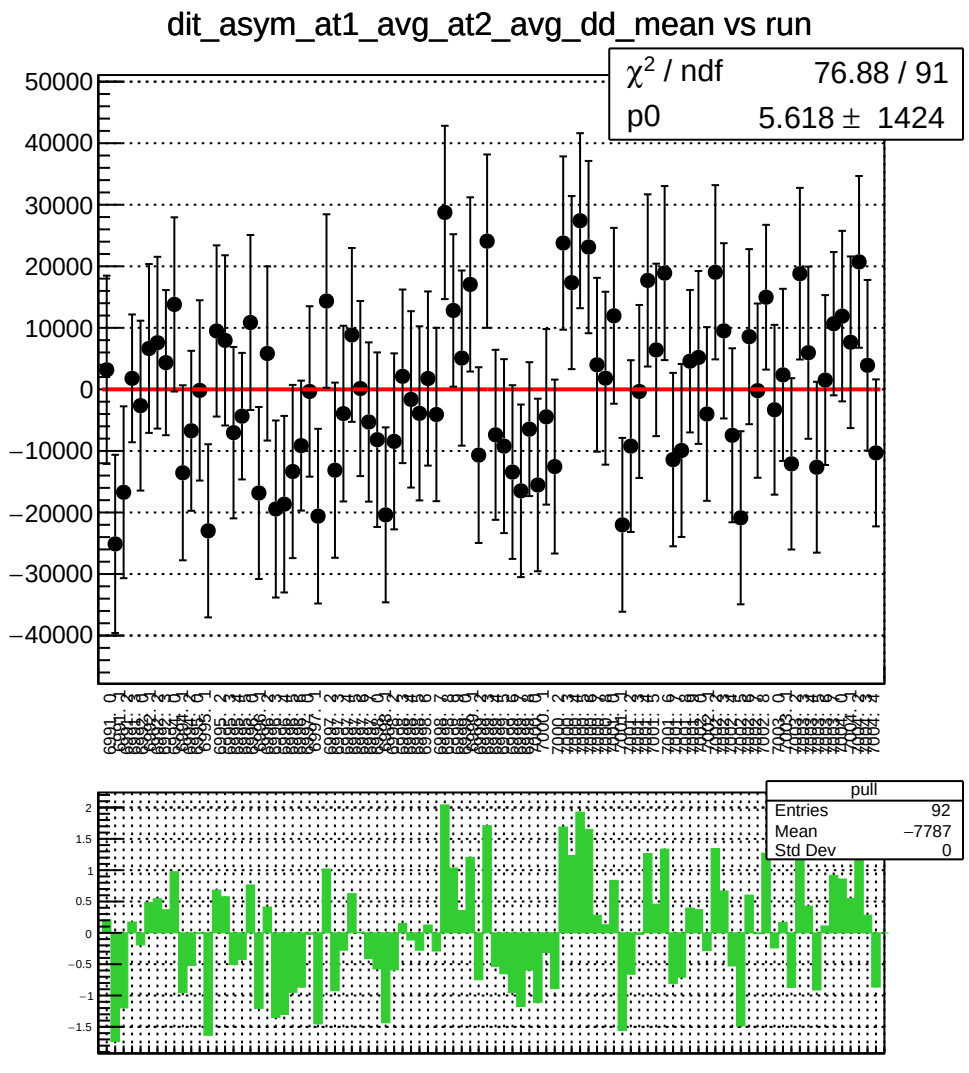

pull1D
Entries 92
Mean 0.001344
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

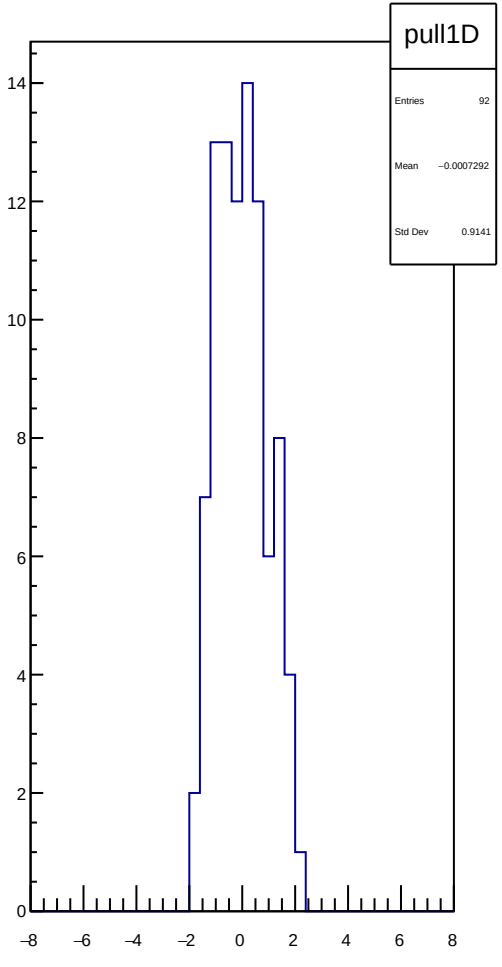

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 305.4 / 91
p0 1299 ± 0.9779
1400
1380
1360
1340
1320
1300
1280
1260

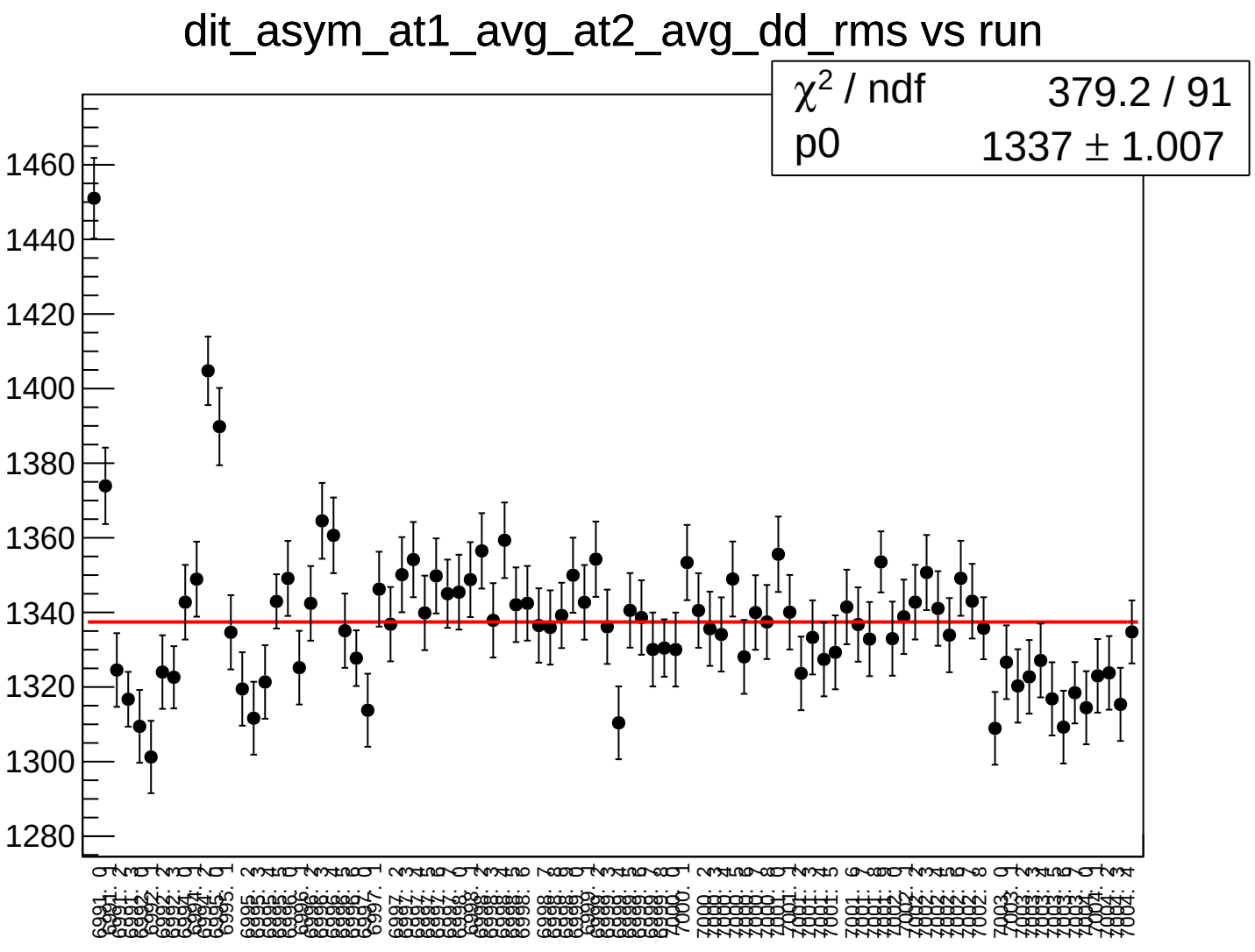

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 3003 ± 4204
pull
Entries 92
Mean −3675
Std Dev 0

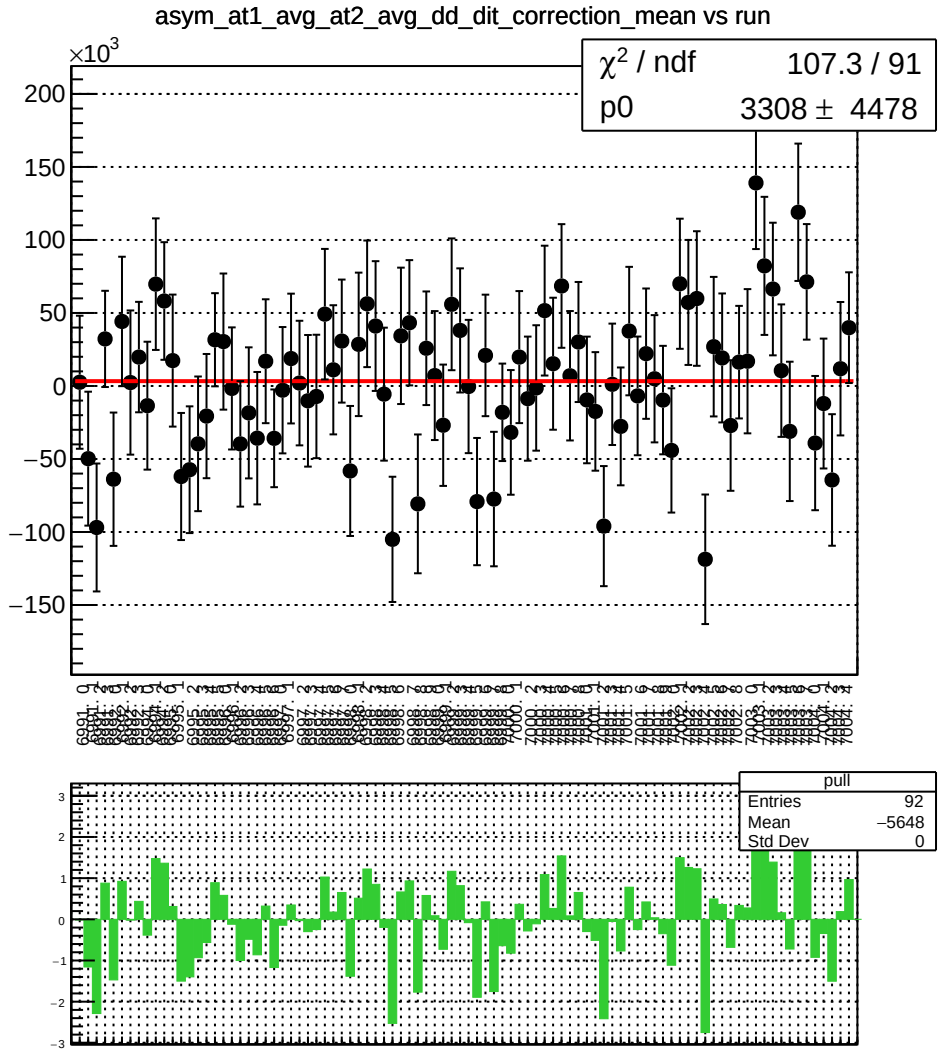

pull1D
Entries 92
Mean −0.001351
Std Dev 1.076

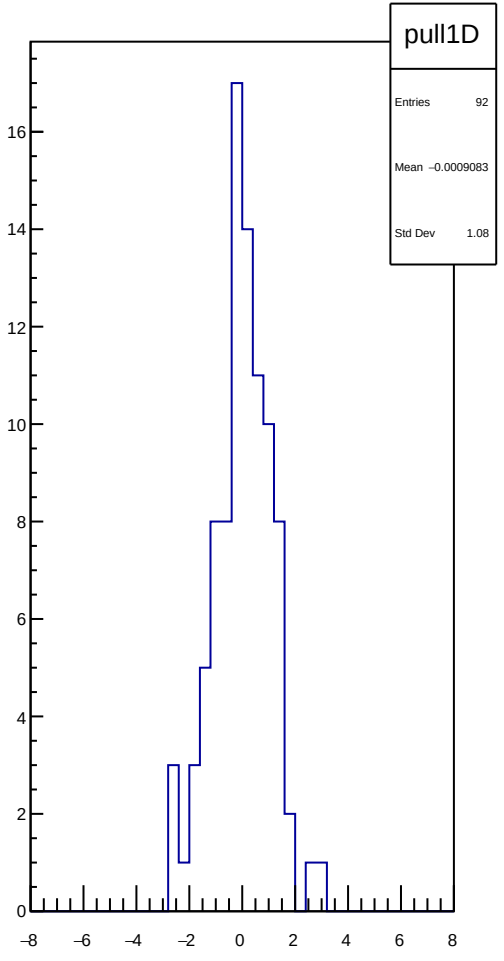

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3283 / 91
p0 3945 ± 2.972
4400
4200
4000
3800
3600

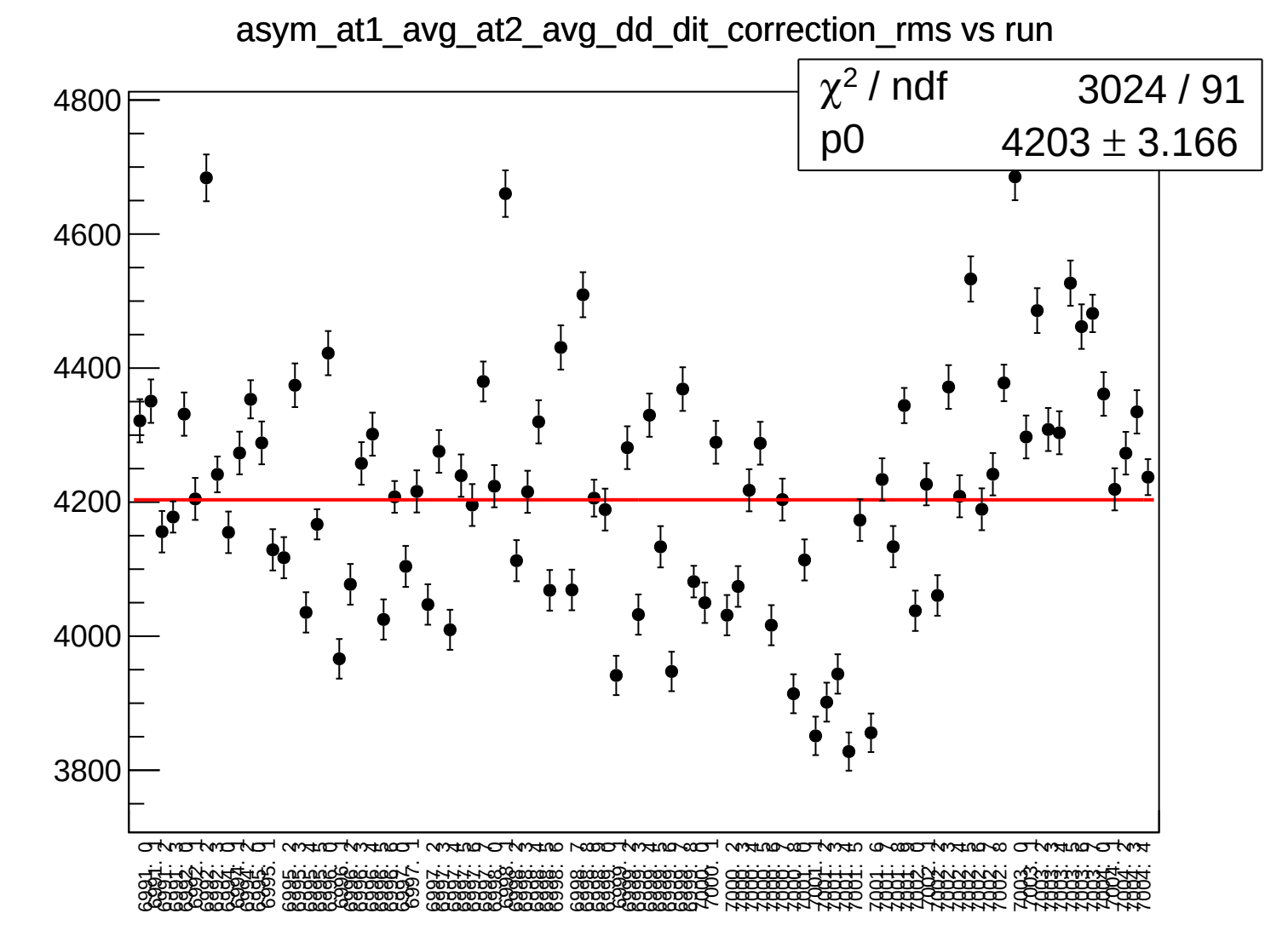

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.88 / 91
p0 5.618 ± 1424
pull
Entries 92
Mean −7787
Std Dev 0

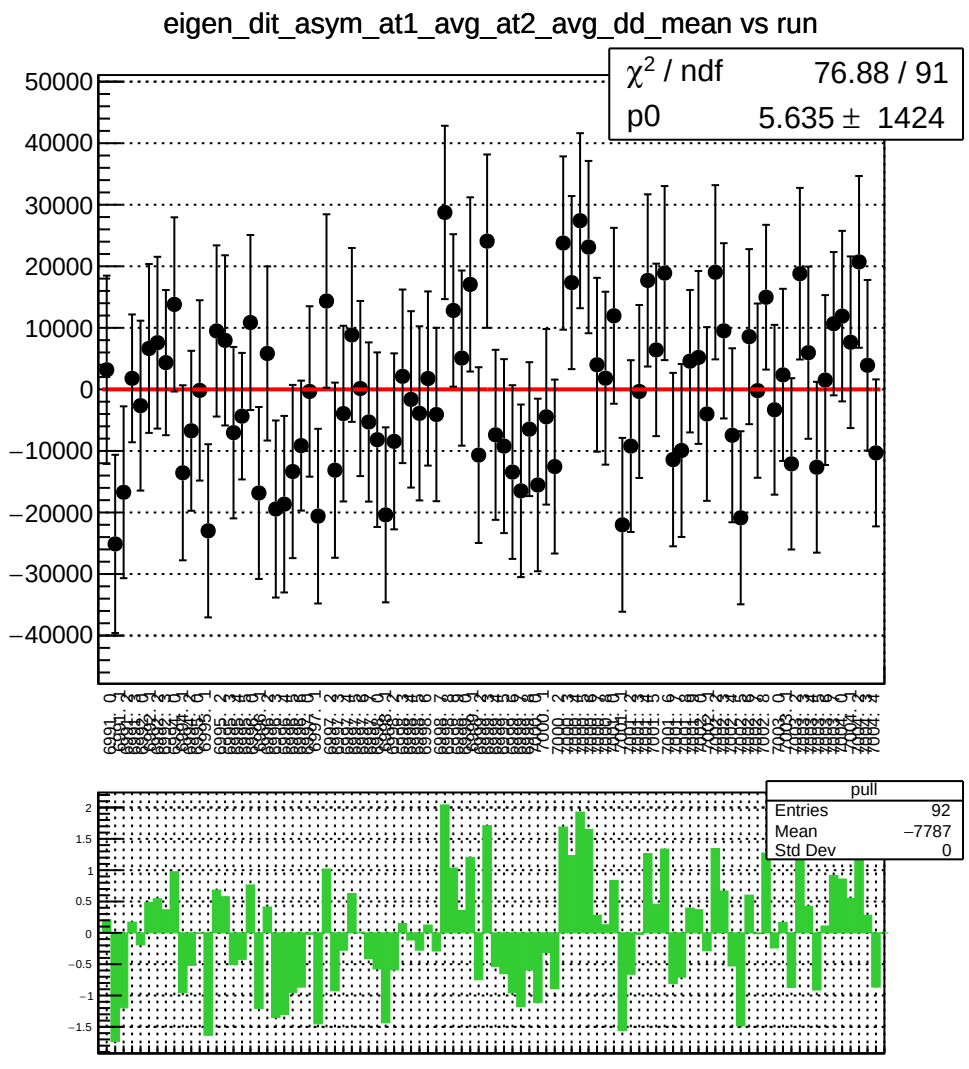

pull1D
Entries 92
Mean −0.0007292
Std Dev 0.9141

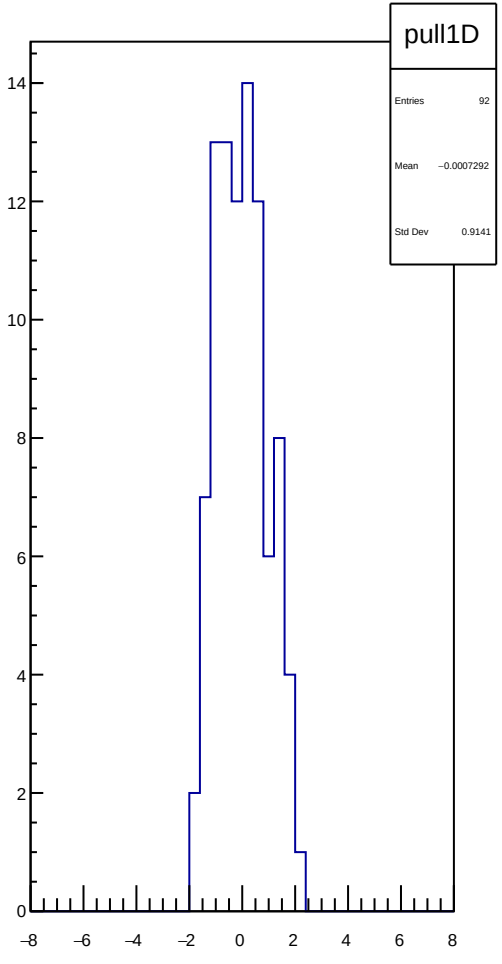

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 379.2 / 91
p0 1337 ± 1.007
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

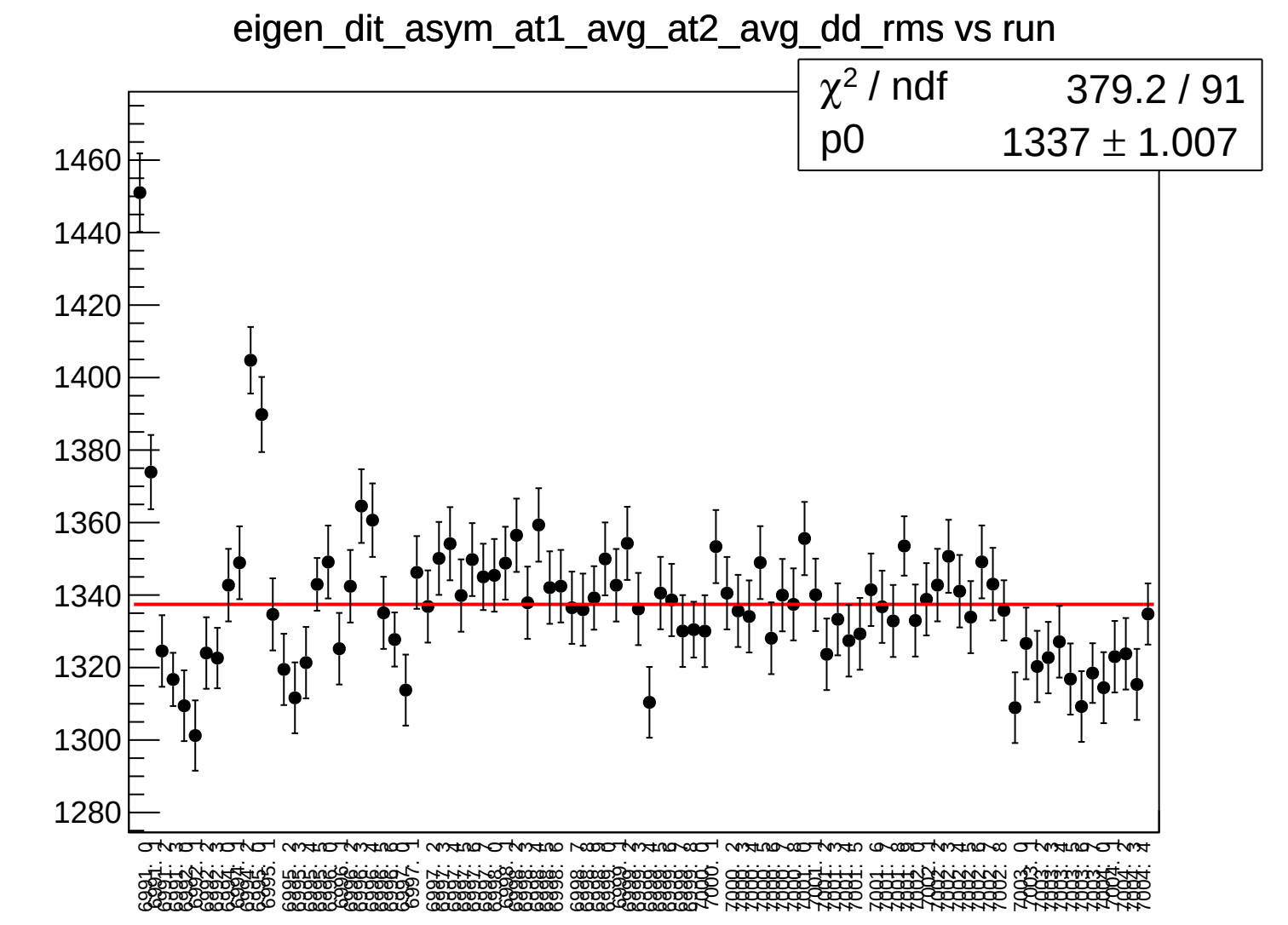

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 3308 ± 4478
200
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −5648
Std Dev 0
3
2
1
0
−1
−2
−3

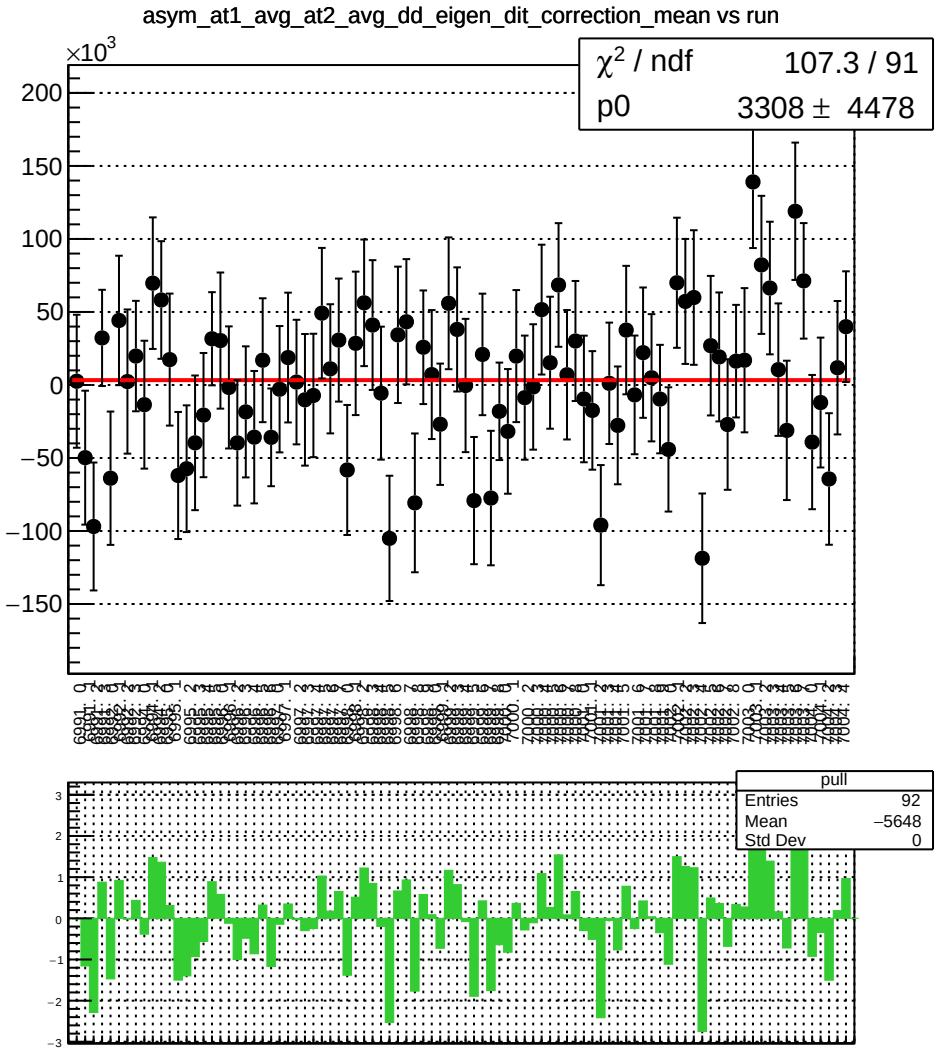

pull1D
Entries 92
Mean −0.0009083
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

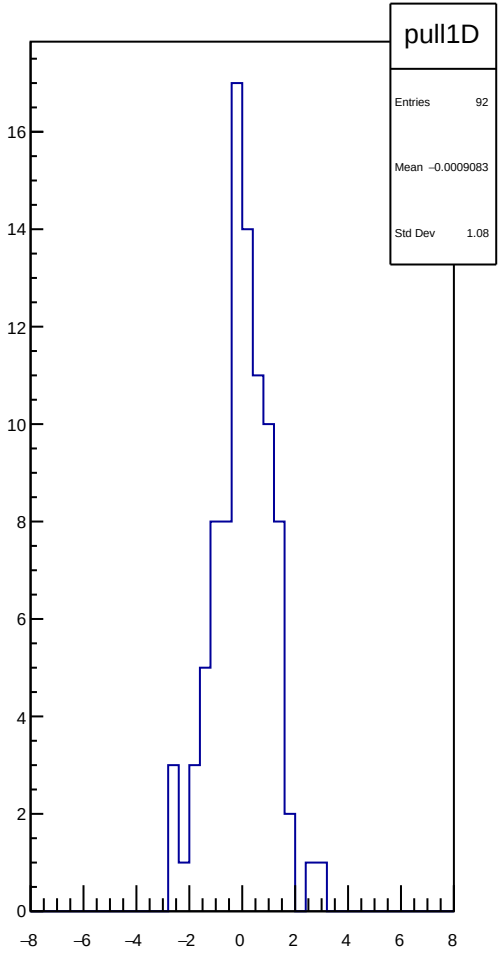

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3024 / 91
p0 4203 ± 3.166
4800
4600
4400
4200
4000
3800

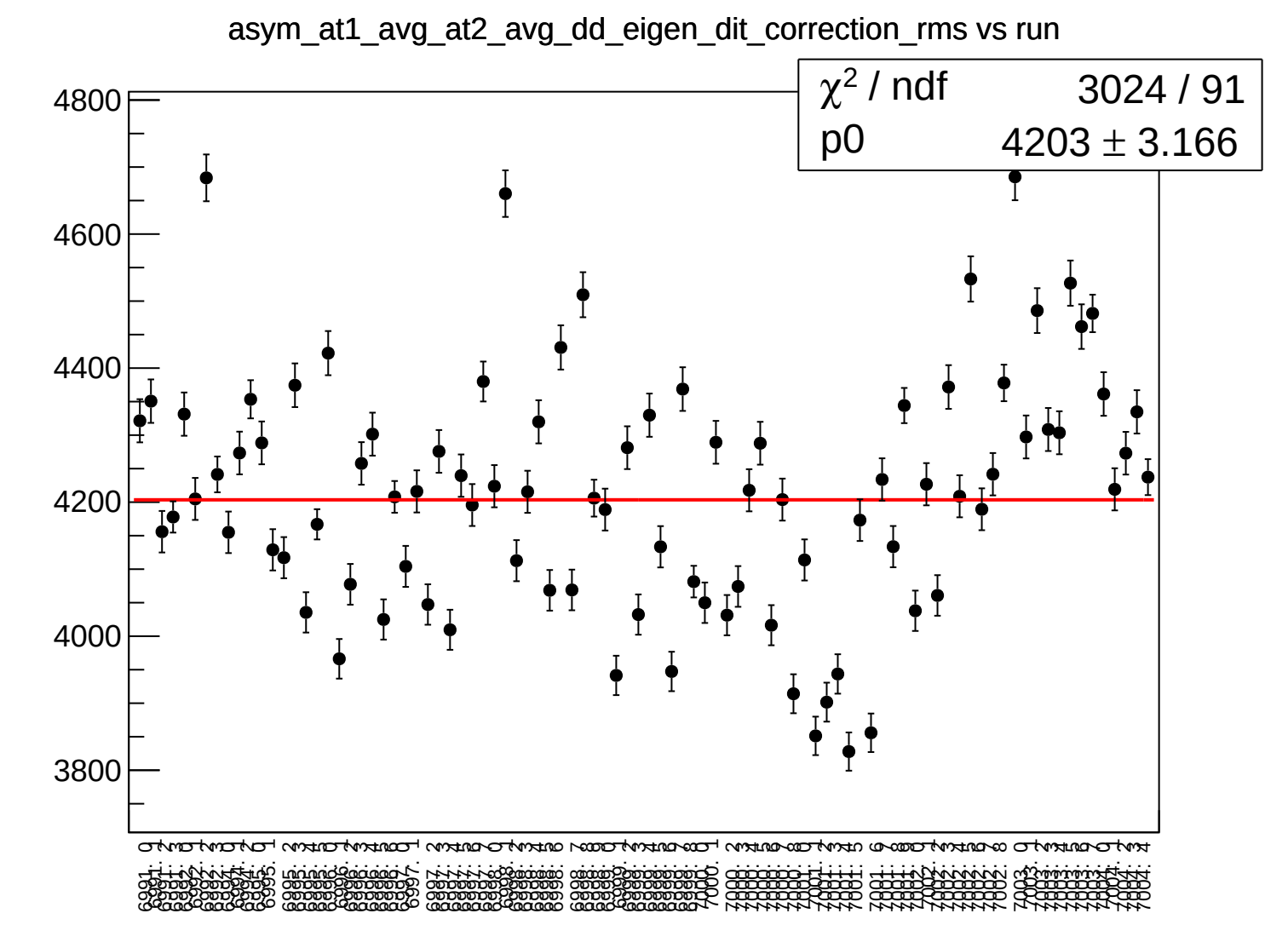

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 76.88 / 91
p0 5.635 ± 1424
pull
Entries 92
Mean −7787
Std Dev 0

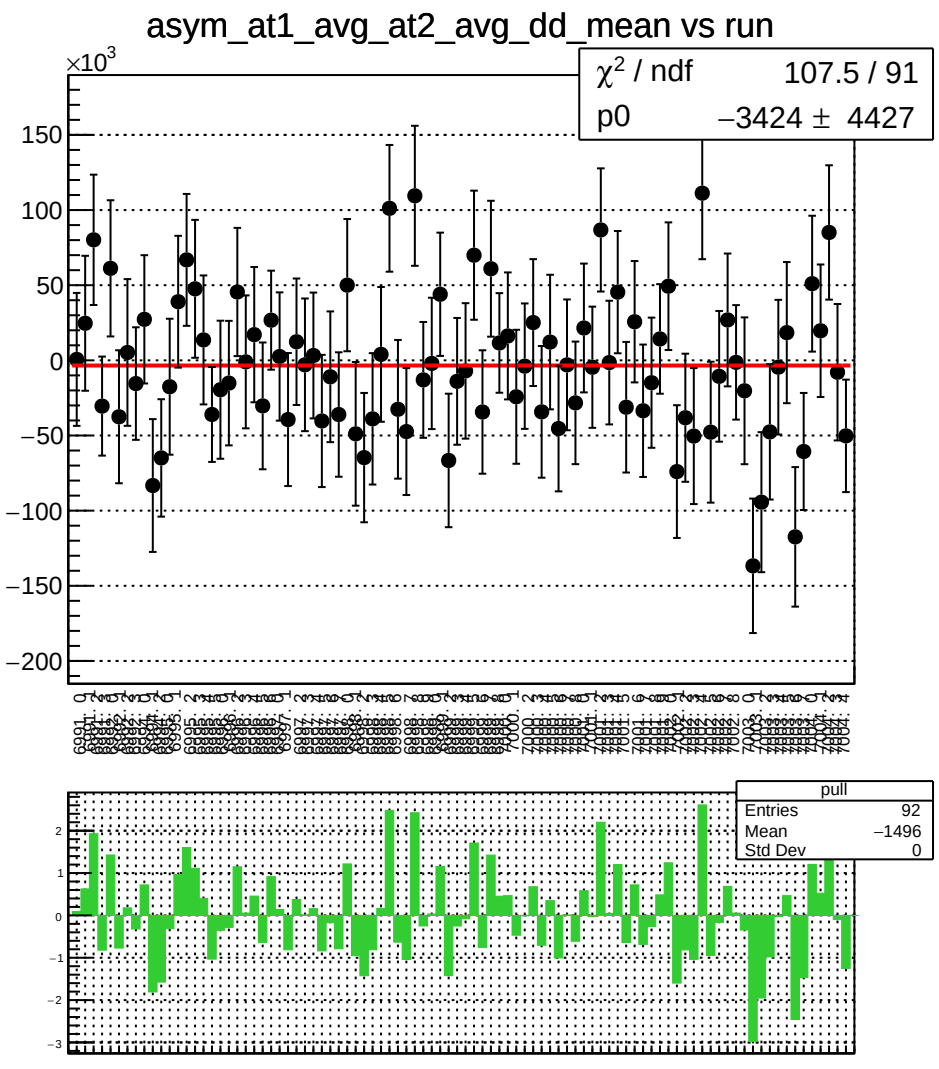

pull1D
Entries 92
Mean −0.0007292
Std Dev 0.9141

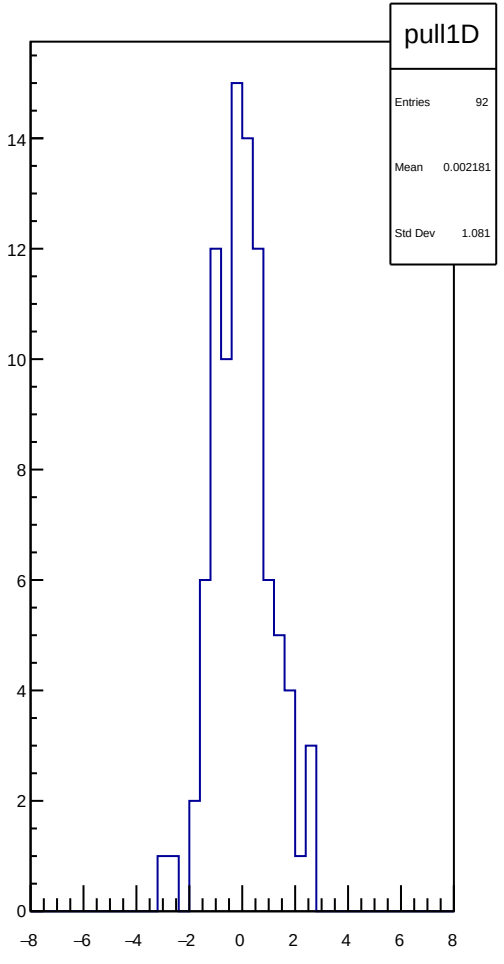

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 379.2 / 91
p0 1337 ± 1.007
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

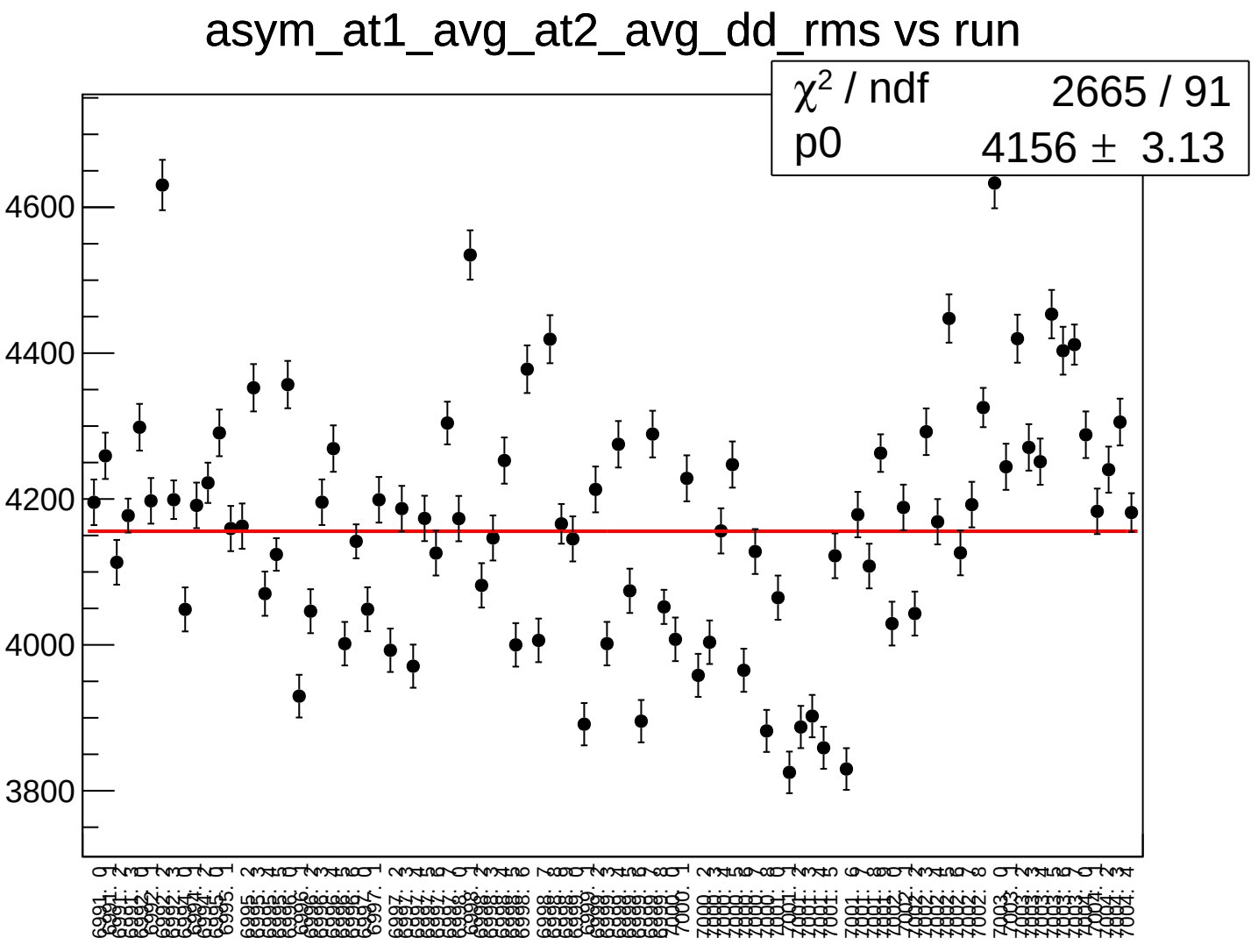

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 3308 ± 4478
pull
Entries 92
Mean −5648
Std Dev 0

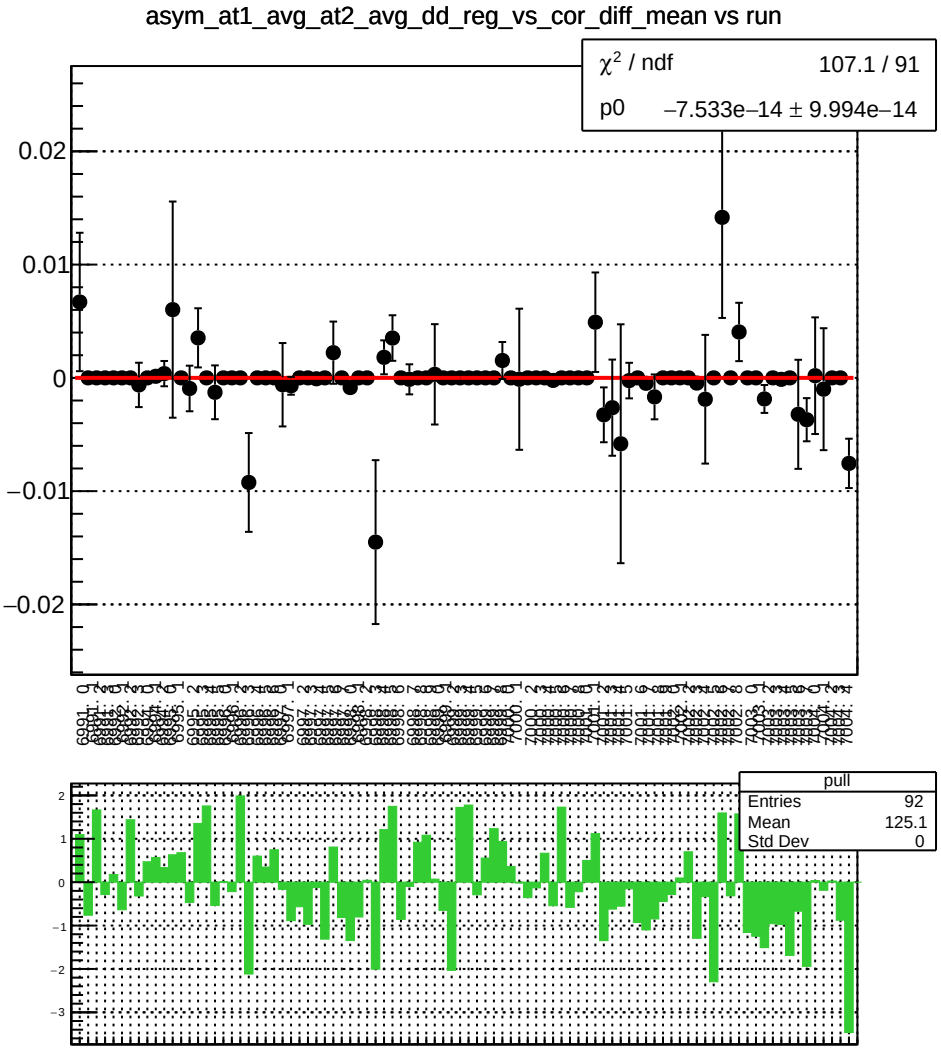

pull1D
Entries 92
Mean −0.0009083
Std Dev 1.08

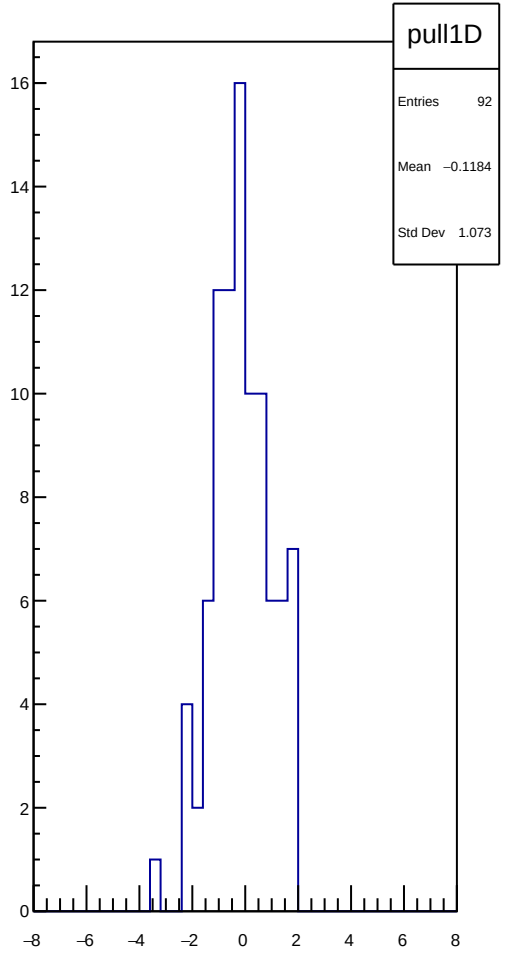

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3024 / 91
p0 4203 ± 3.166
4800
4600
4400
4200
4000
3800

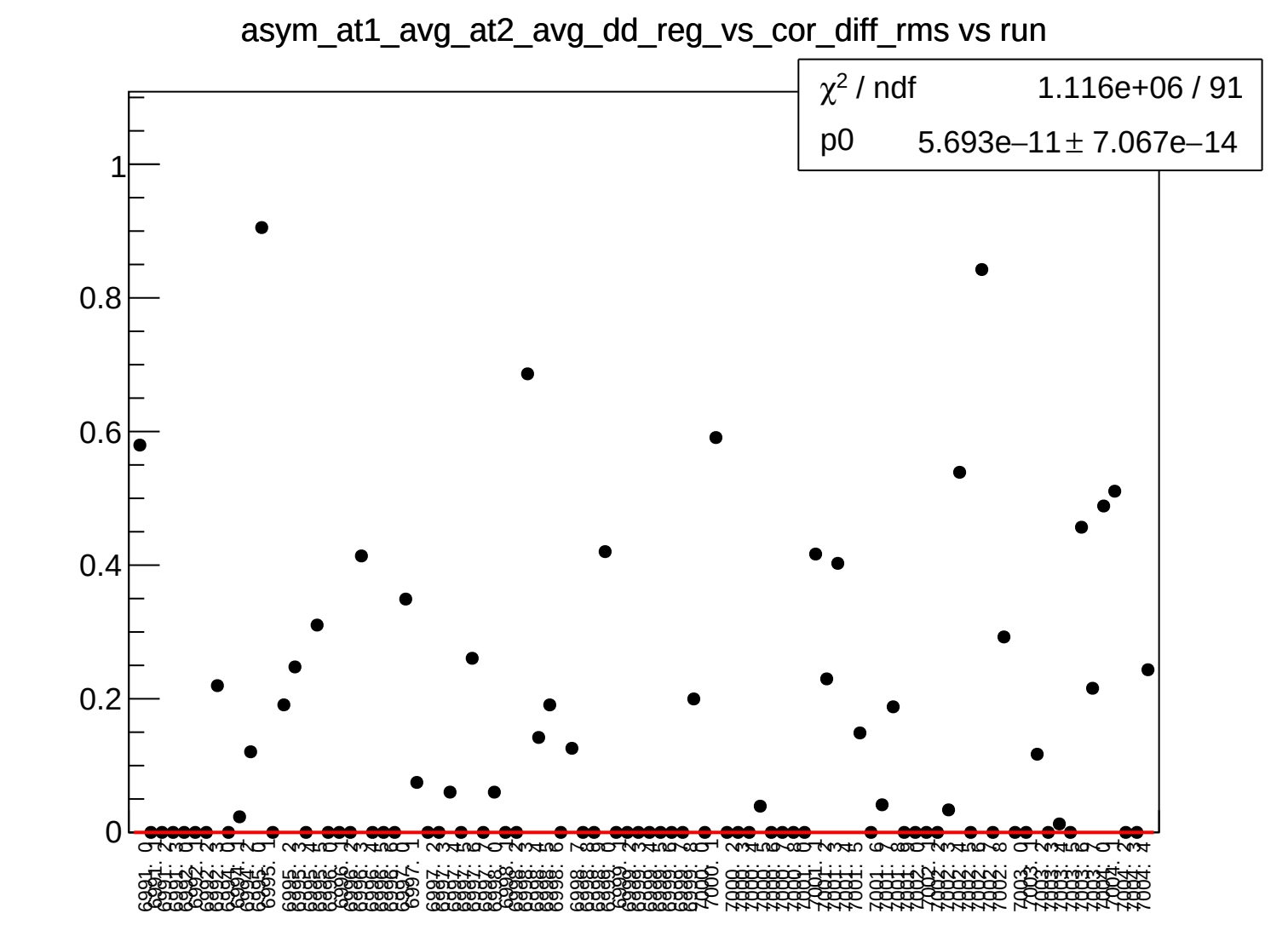

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 107.5 / 91
p0 −3424 ± 4427
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −1496
Std Dev 0
2
1
0
−1
−2
−3

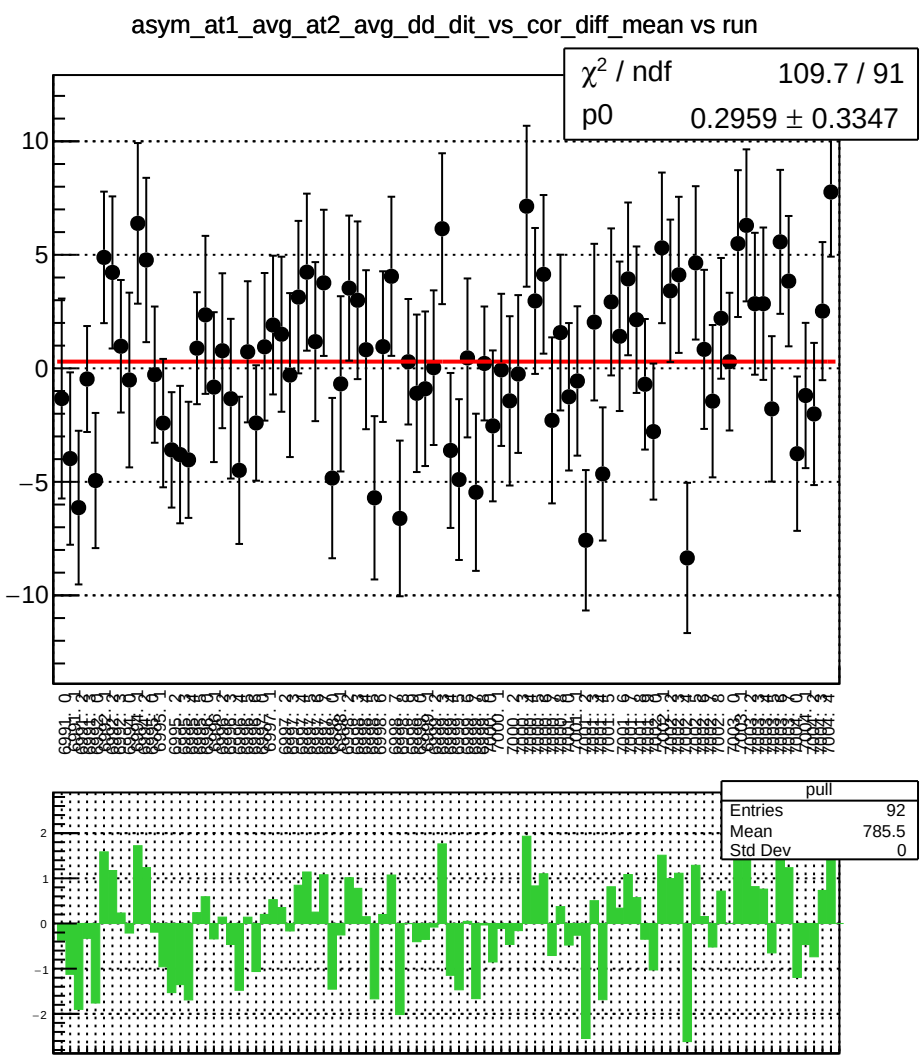

pull1D
Entries 92
Mean 0.002181
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

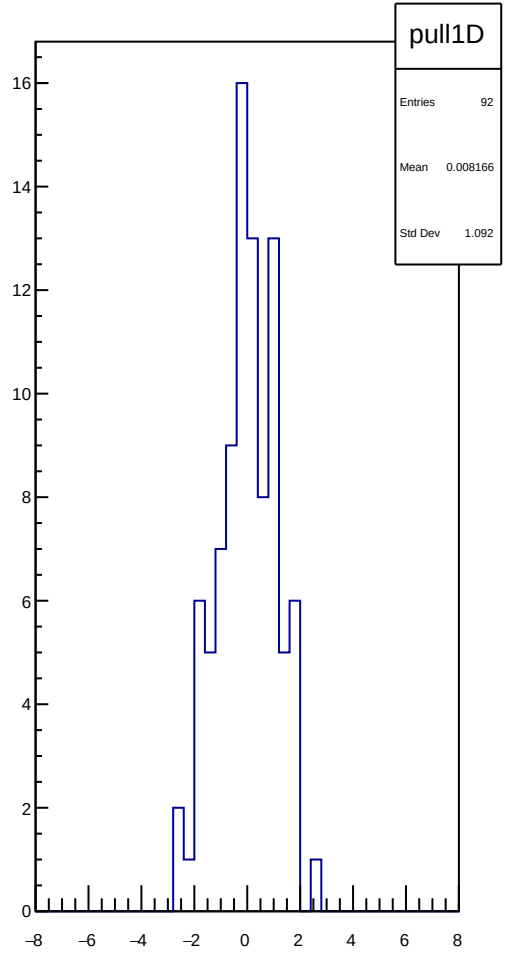

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2665 / 91
p0 4156 ± 3.13
4600
4400
4200
4000
3800

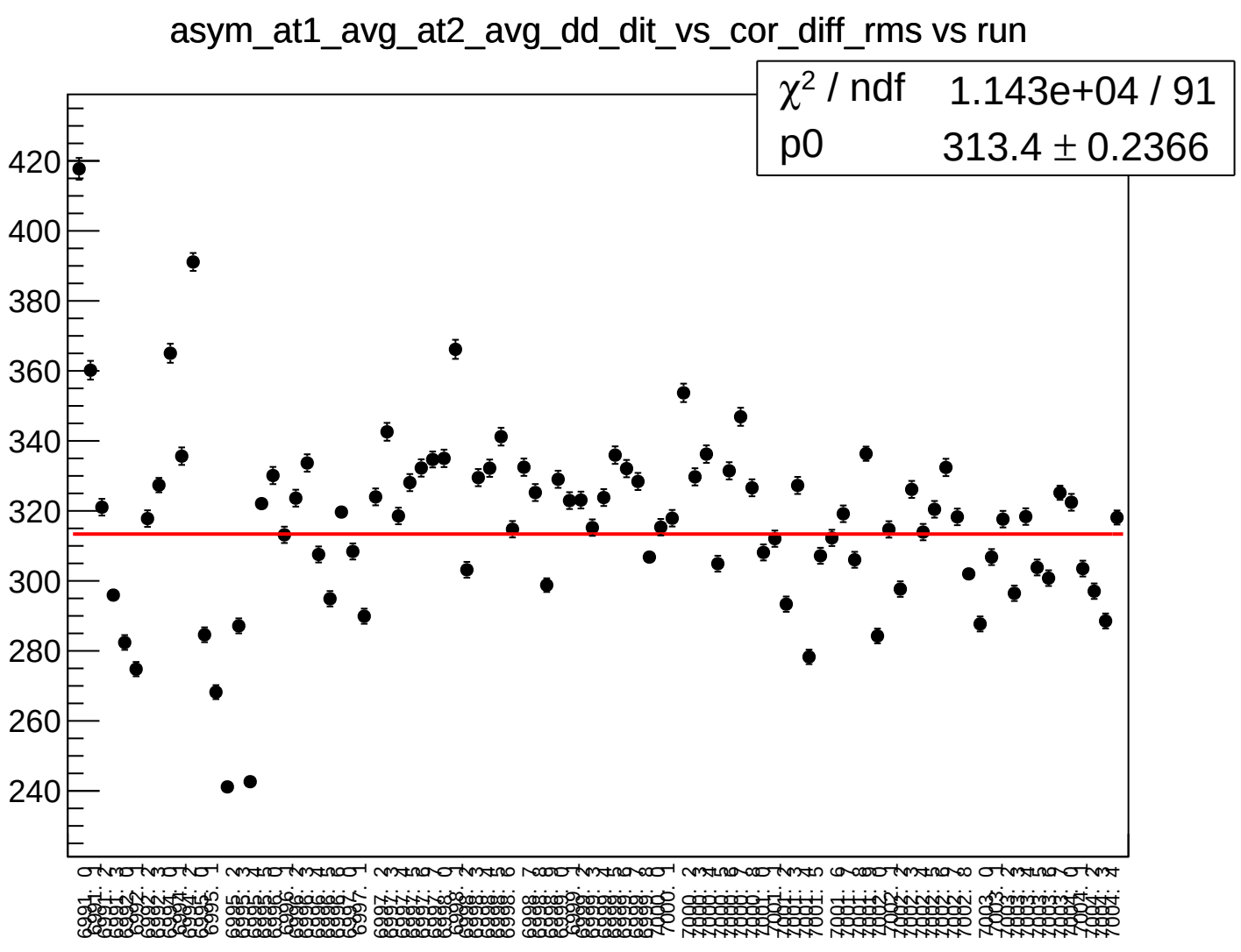

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 91
p0 −7.533e−14 ± 9.994e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 125.1
Std Dev 0
2
1
0
−1
−2
−3

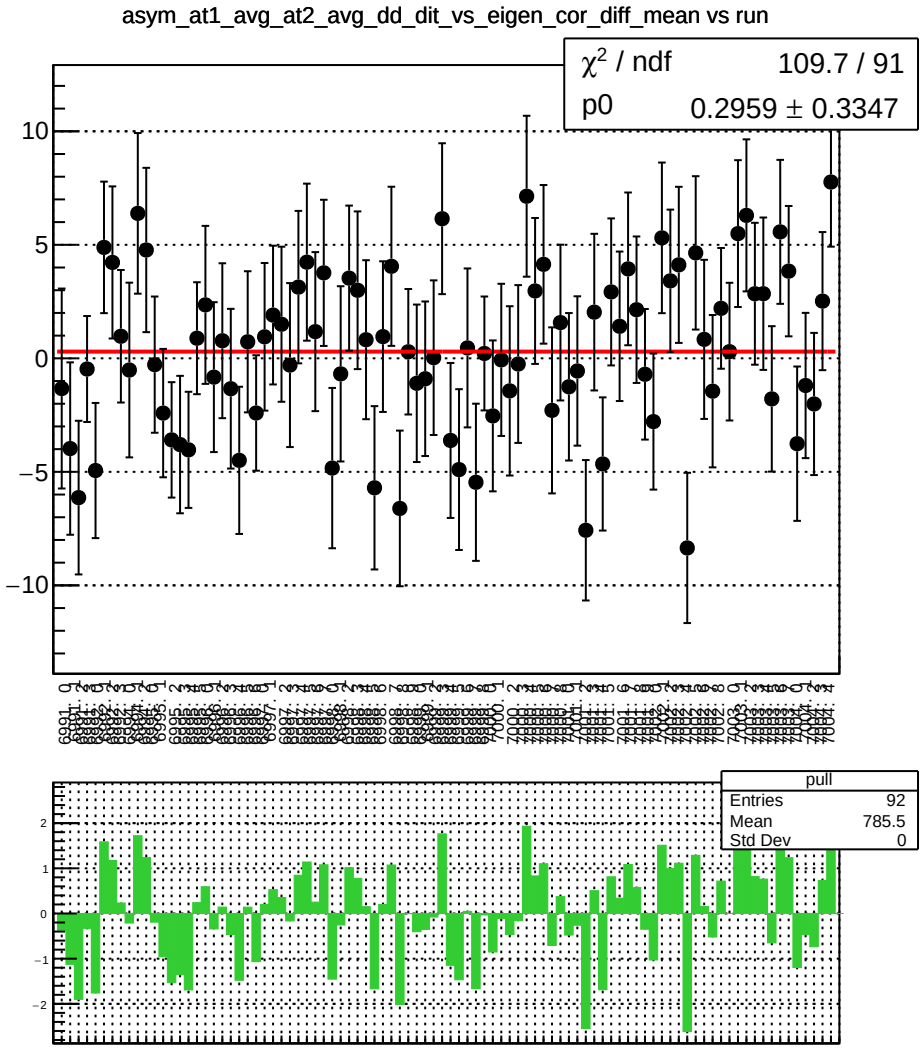

pull1D
Entries 92
Mean −0.1184
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

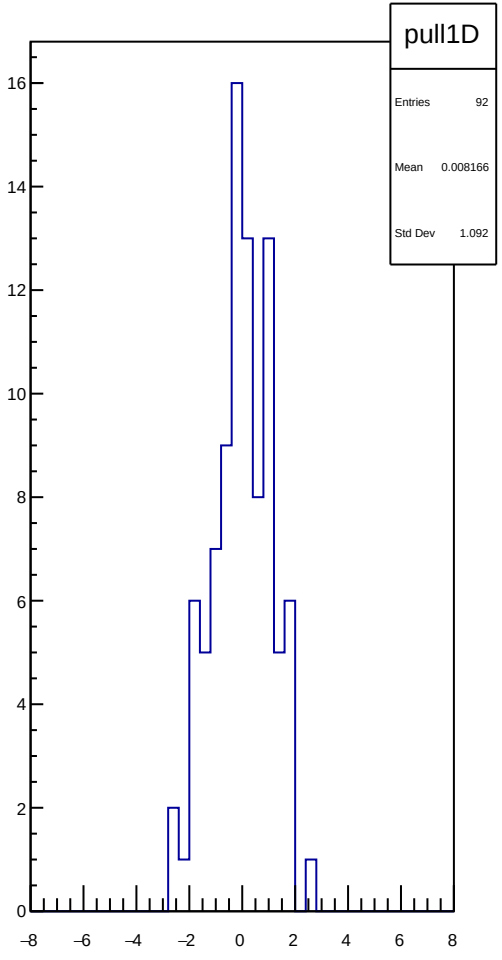

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.116e+06 / 91
p0 5.693e−11 ± 7.067e−14
1
0.8
0.6
0.4
0.2
0

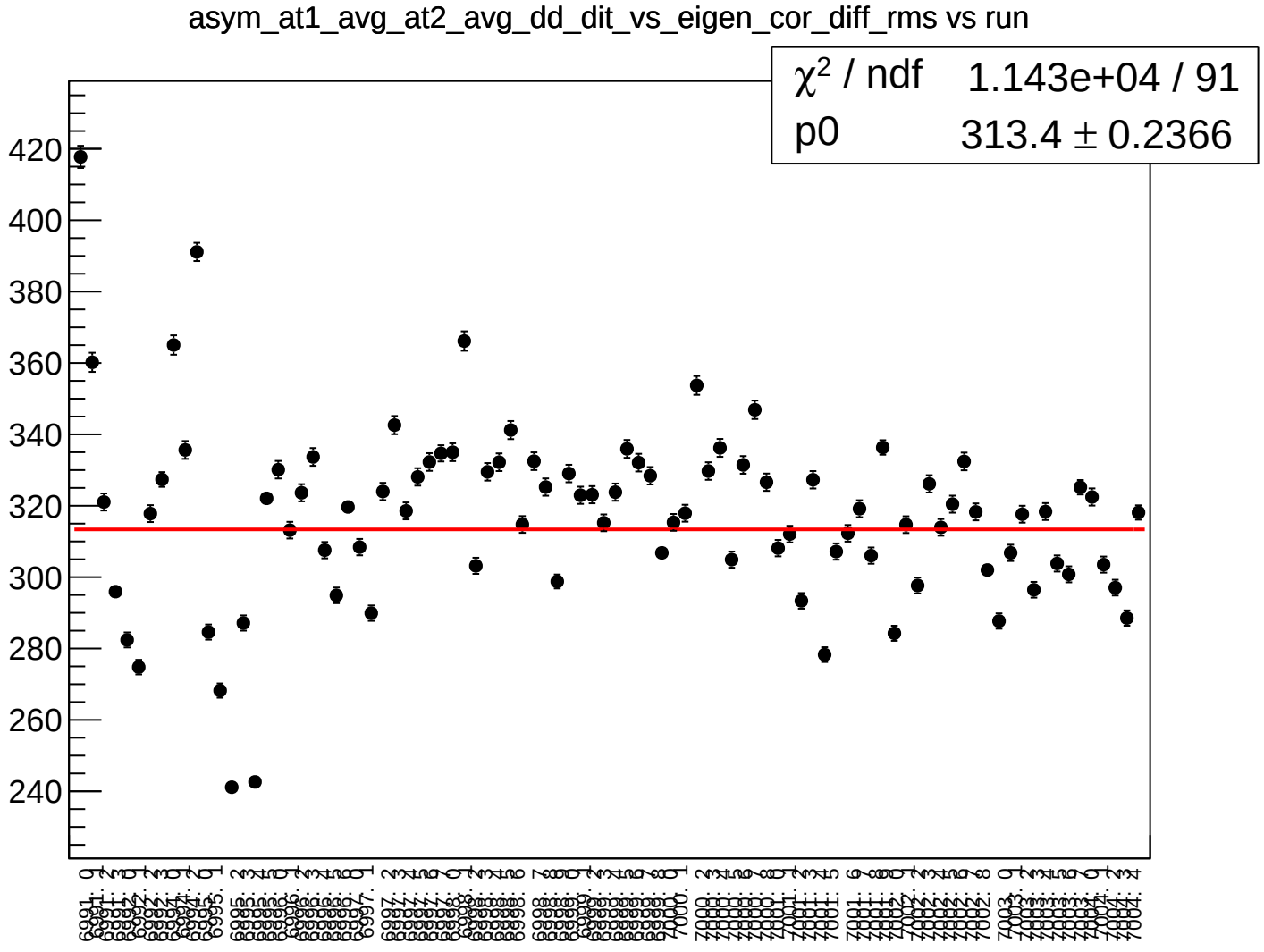

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0

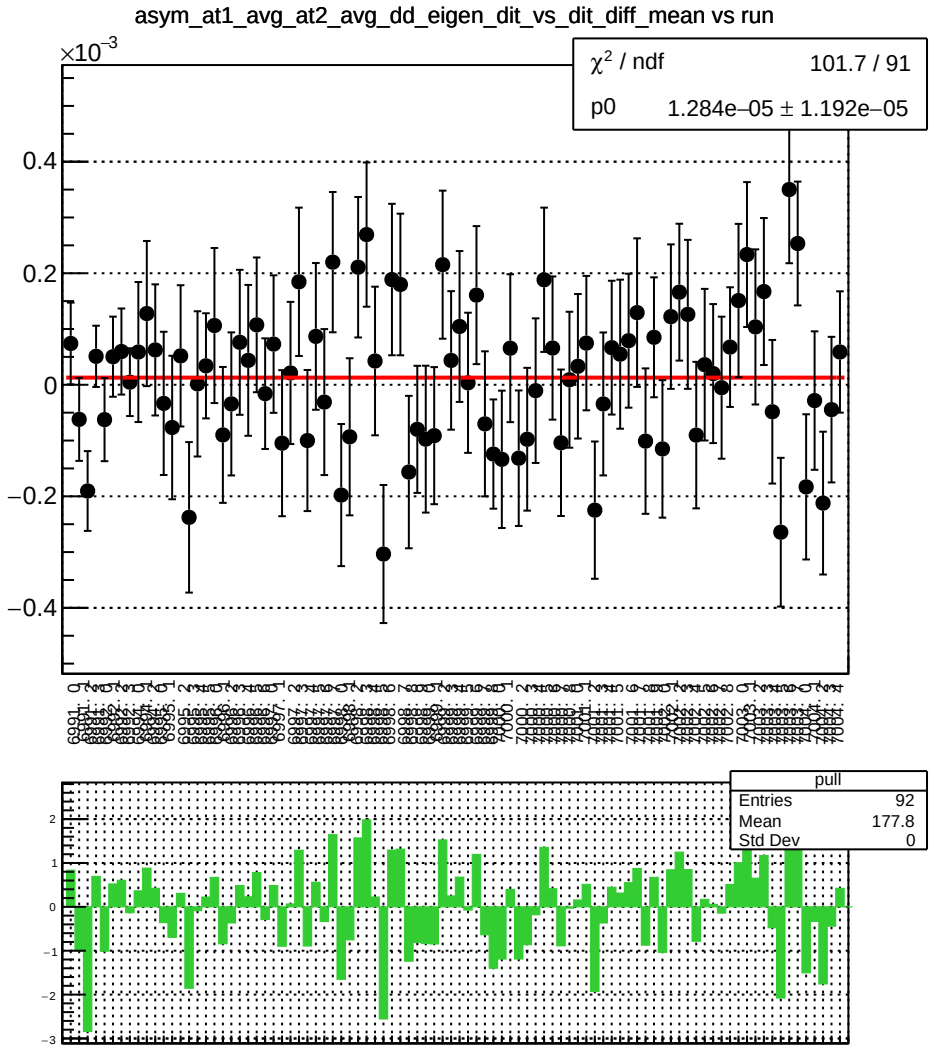

pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

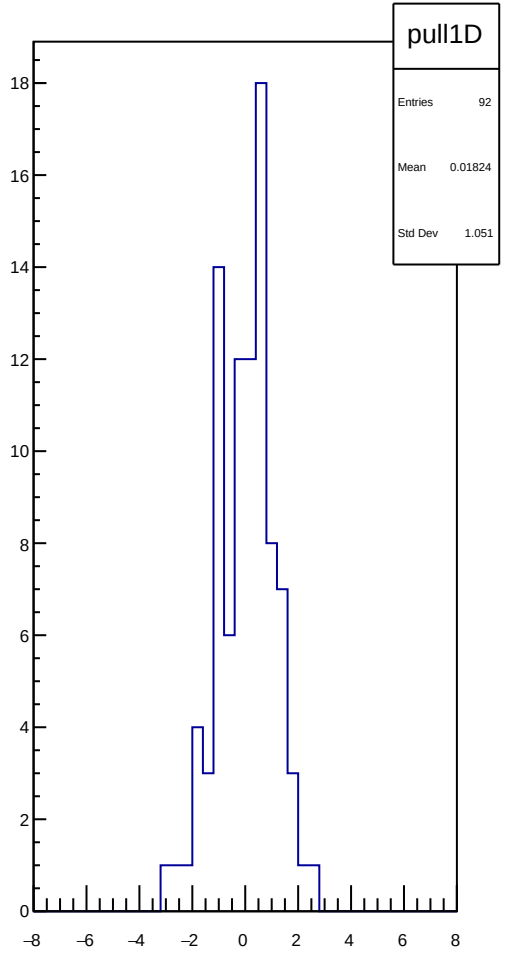

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

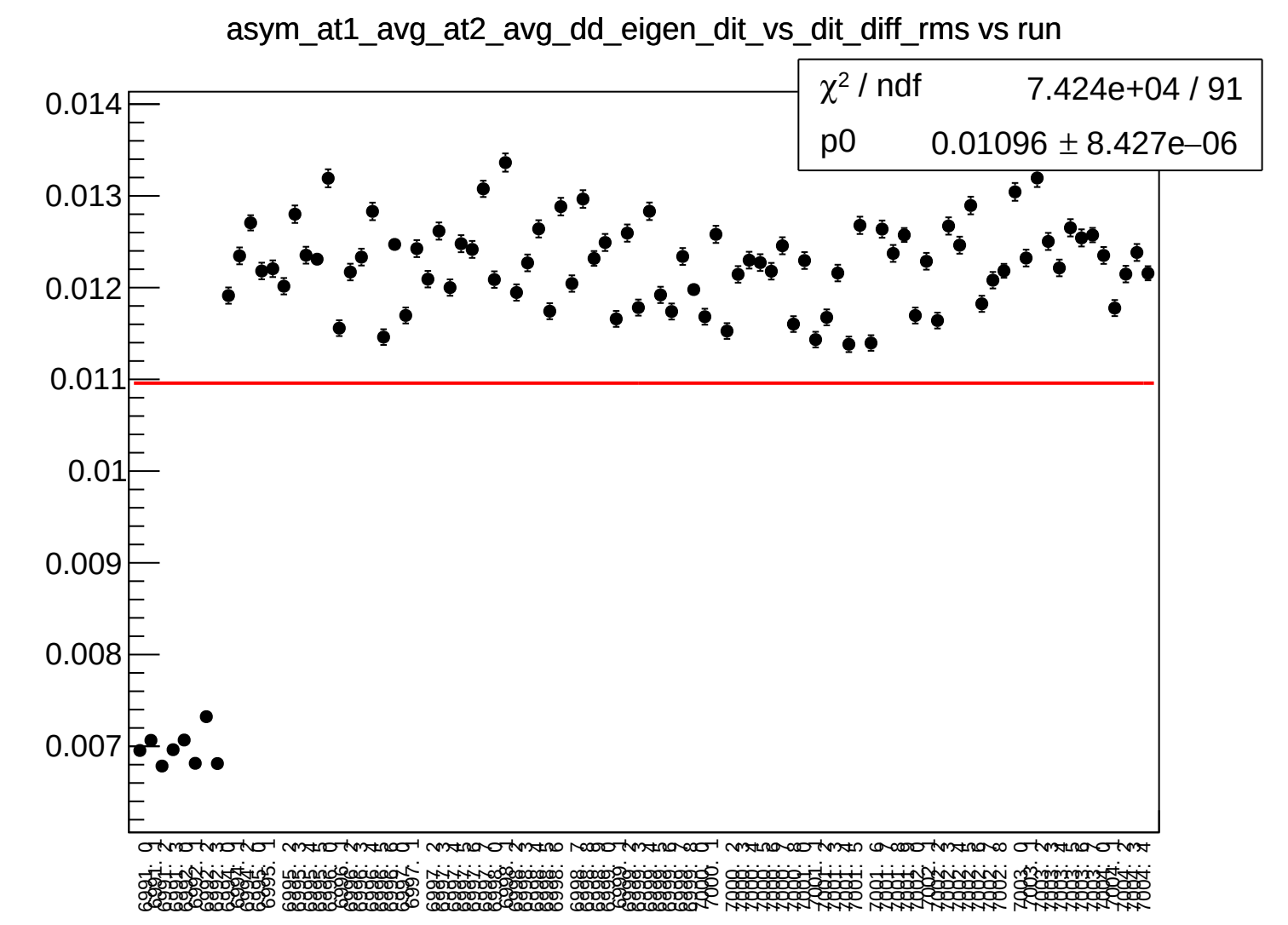

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0

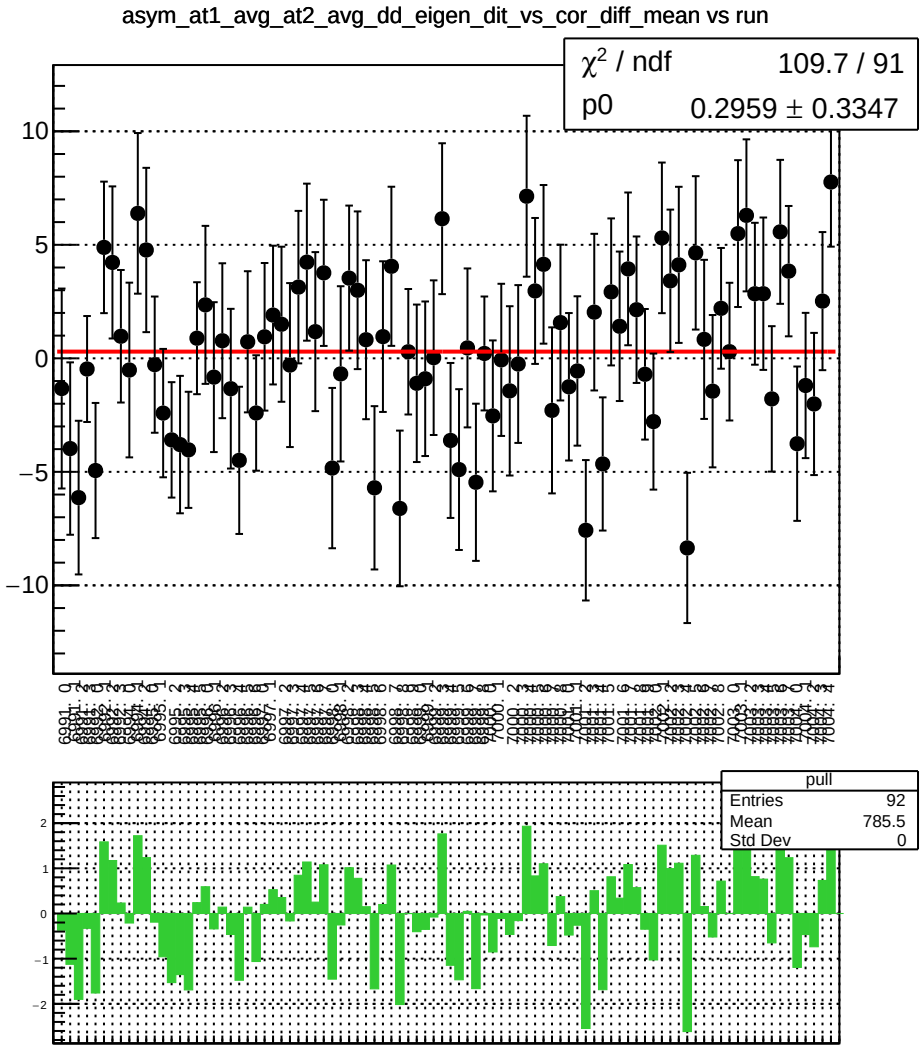

pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

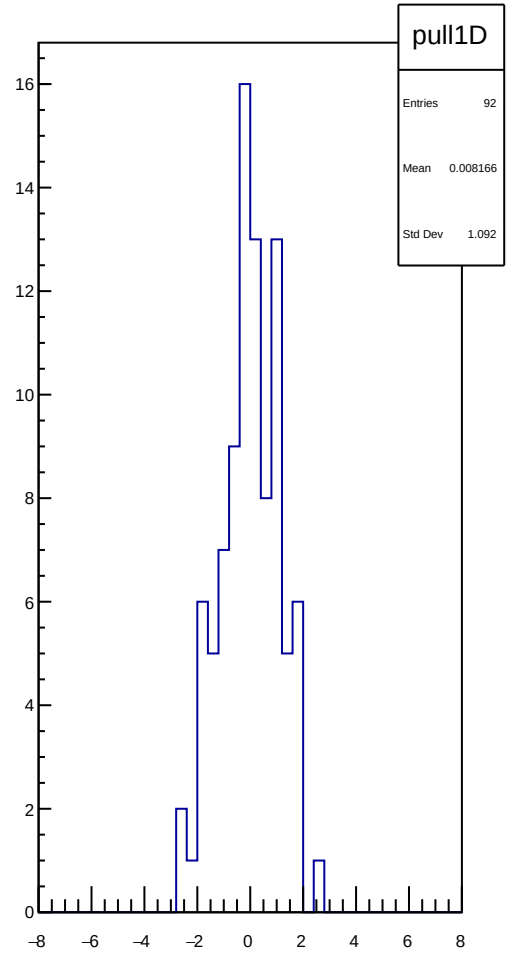

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

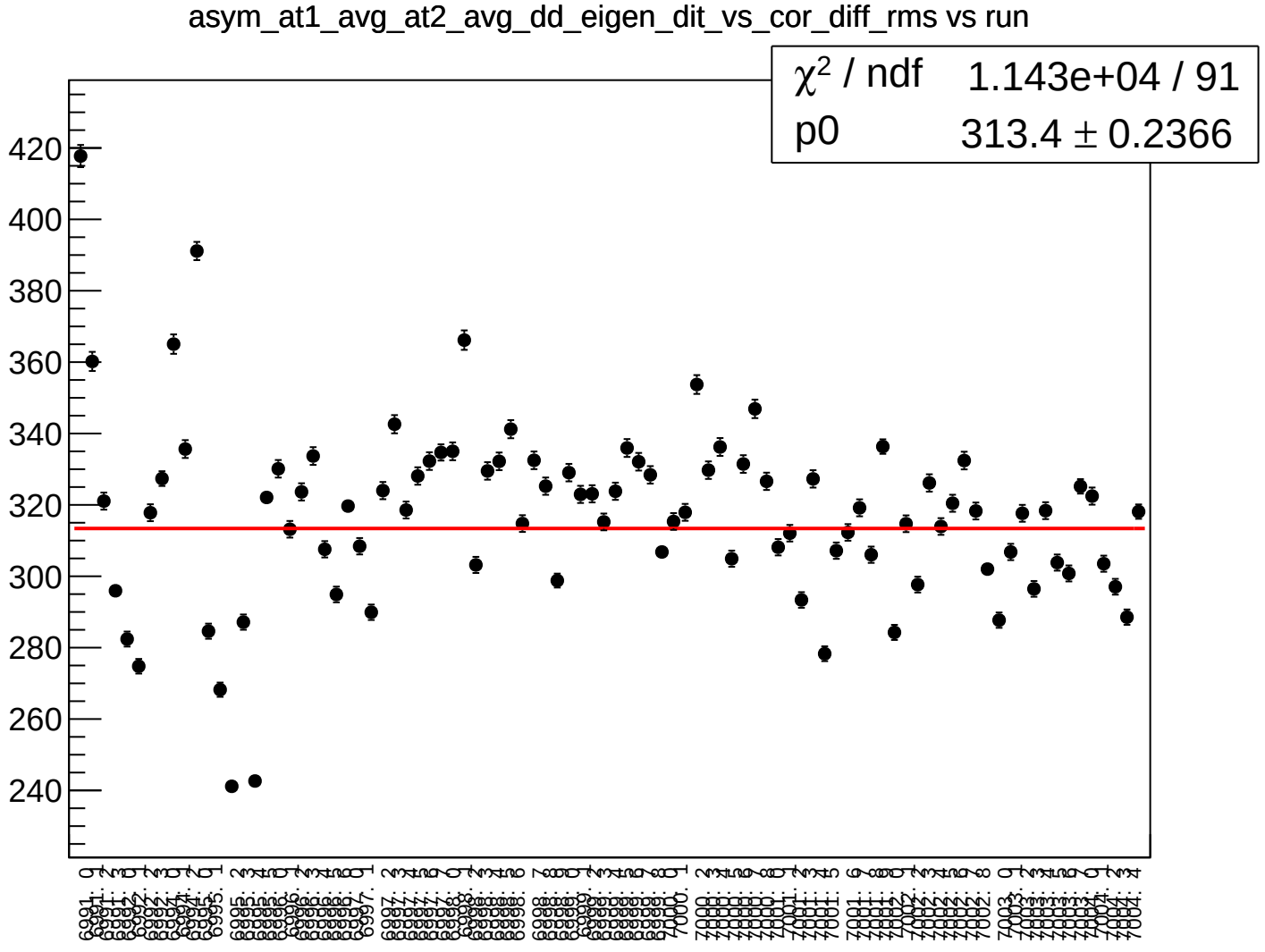

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 91
p0 1.284e−05 ± 1.192e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 177.8
Std Dev 0
2
1
0
−1
−2
−3

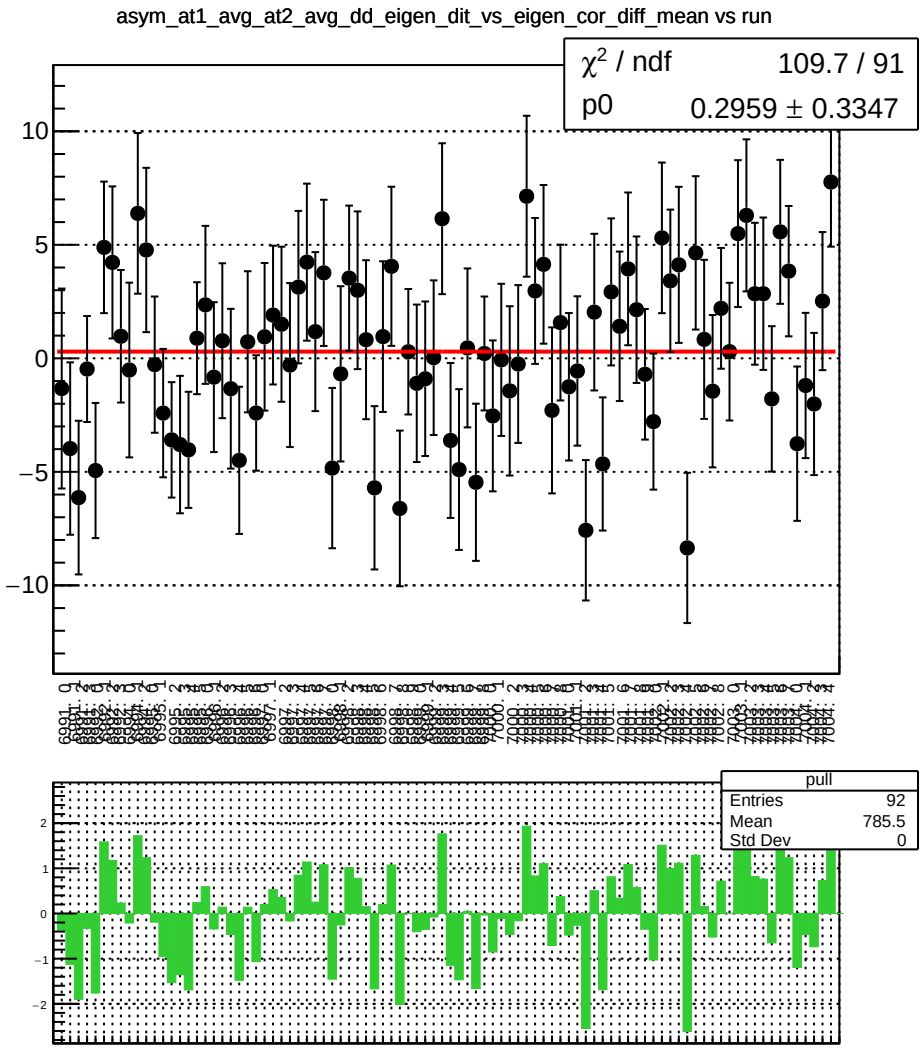

pull1D
Entries 92
Mean 0.01824
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

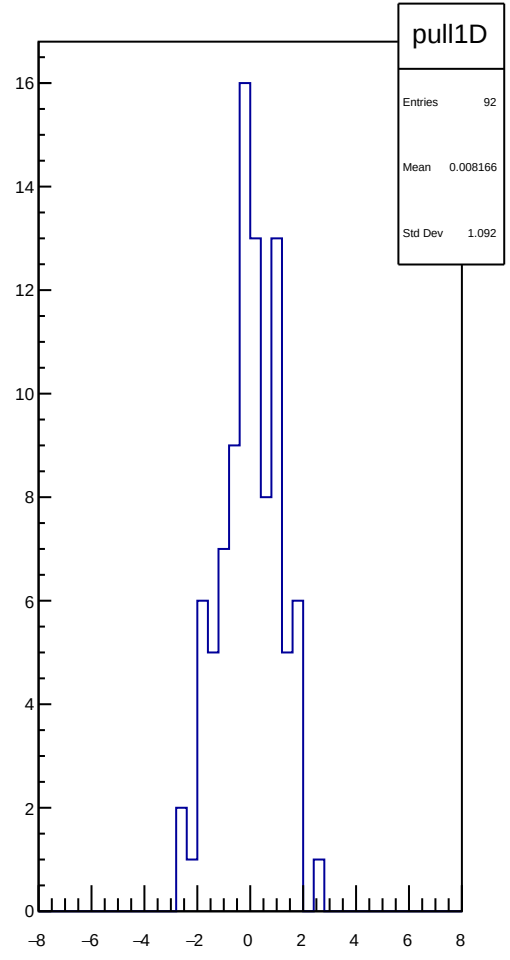

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.424e+04 / 91
p0 0.01096 ± 8.427e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

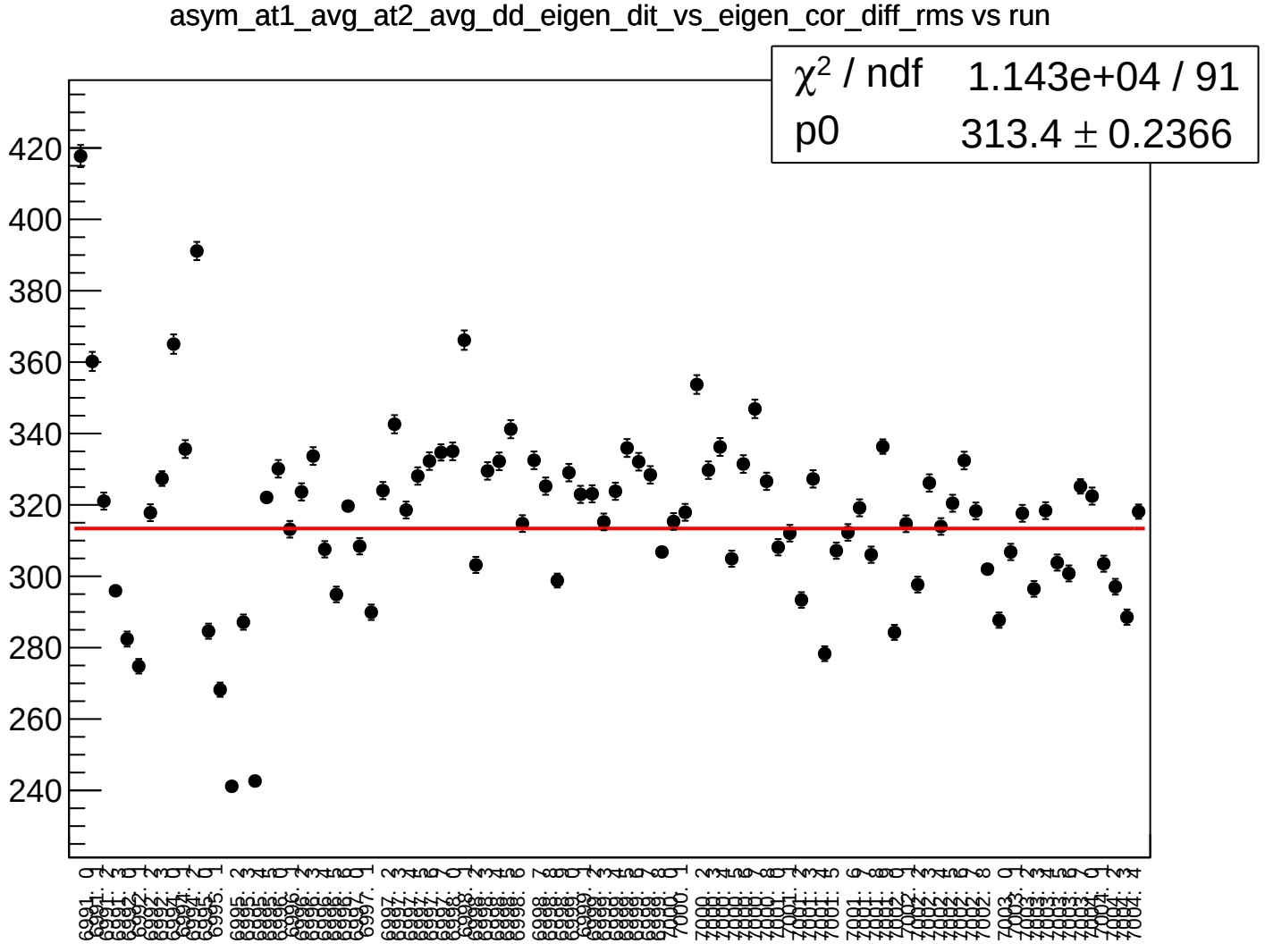

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0

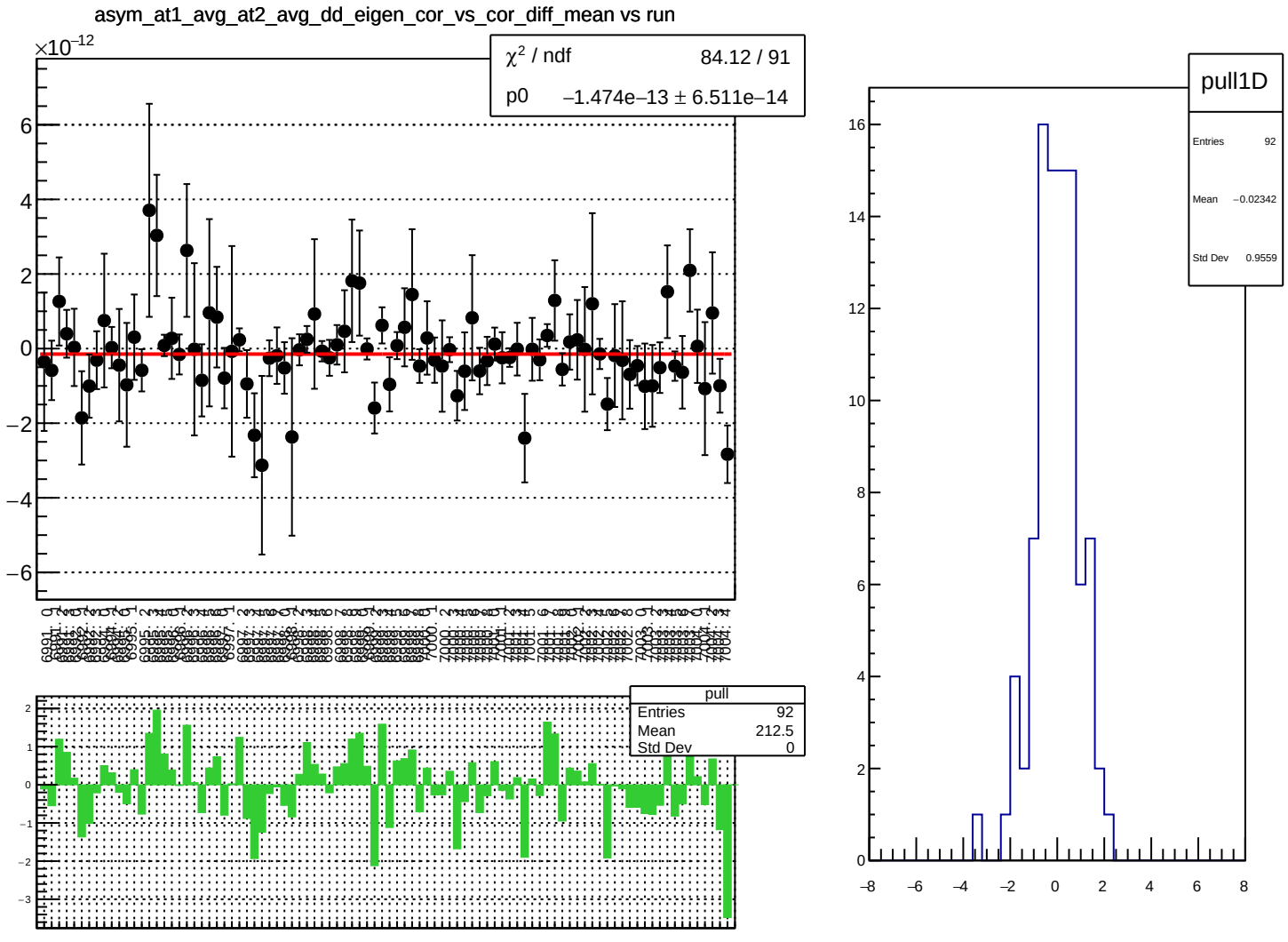

pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

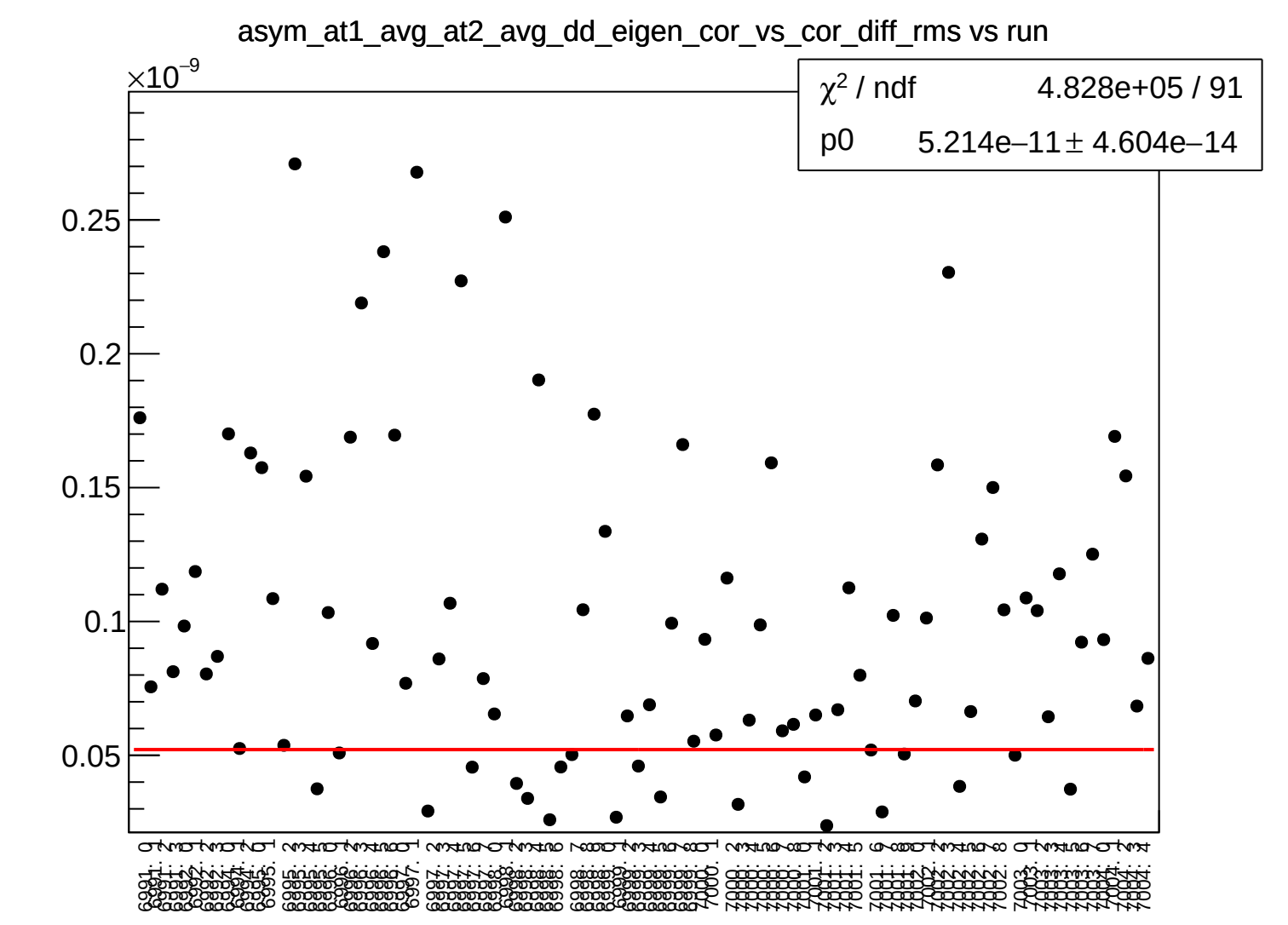

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

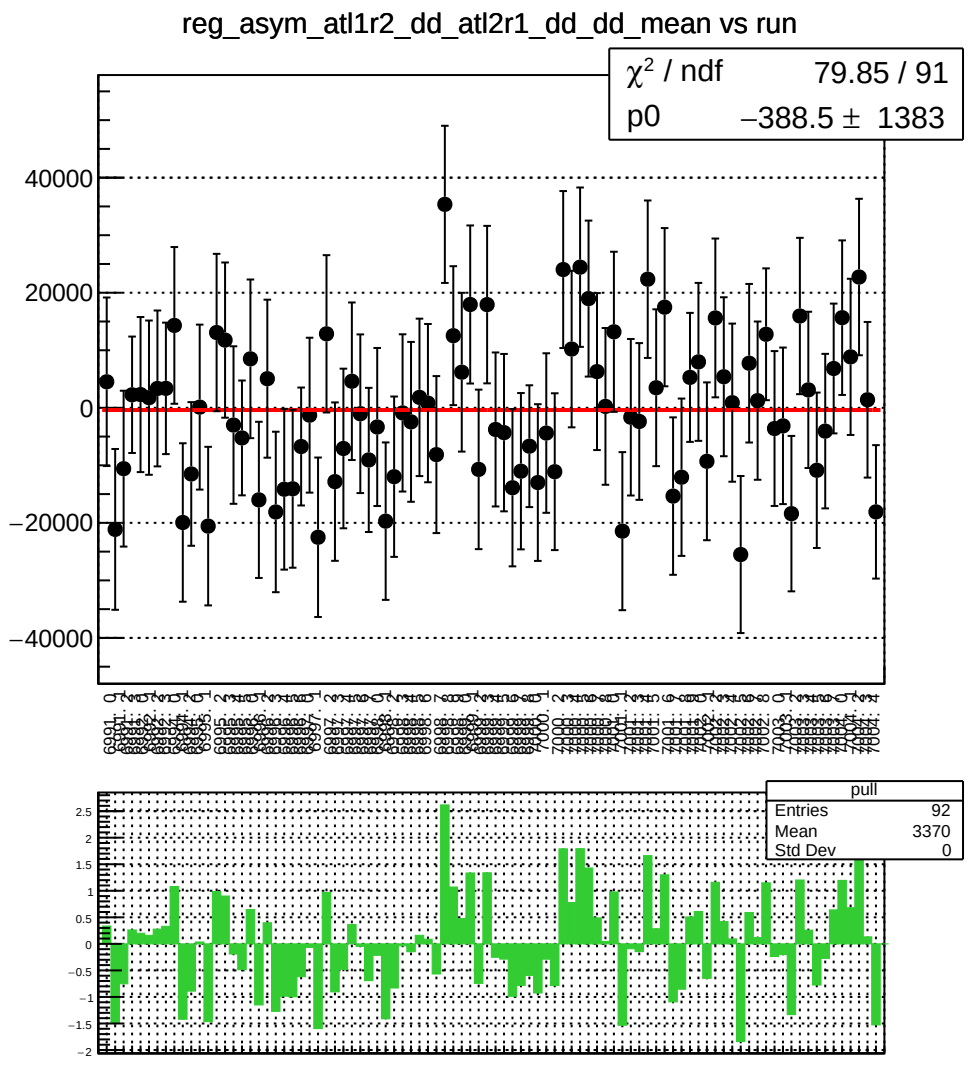

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0

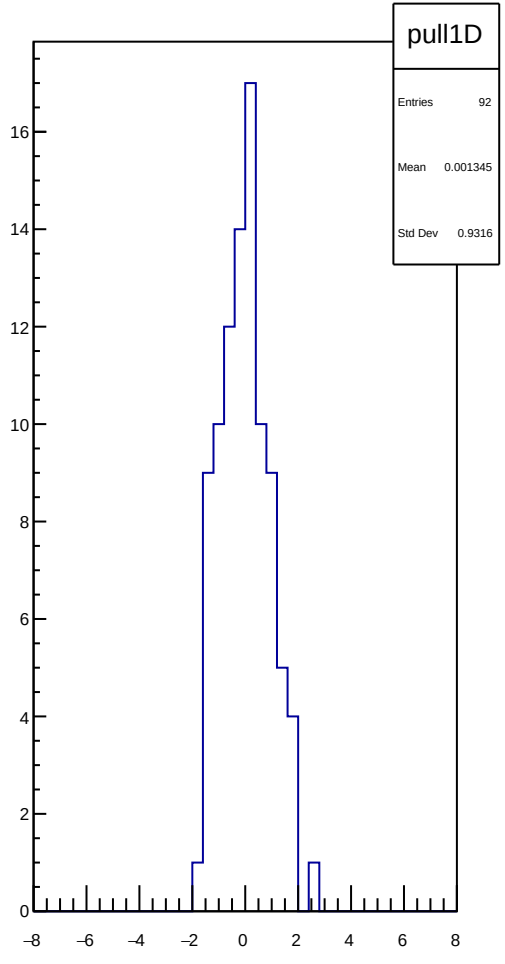

pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

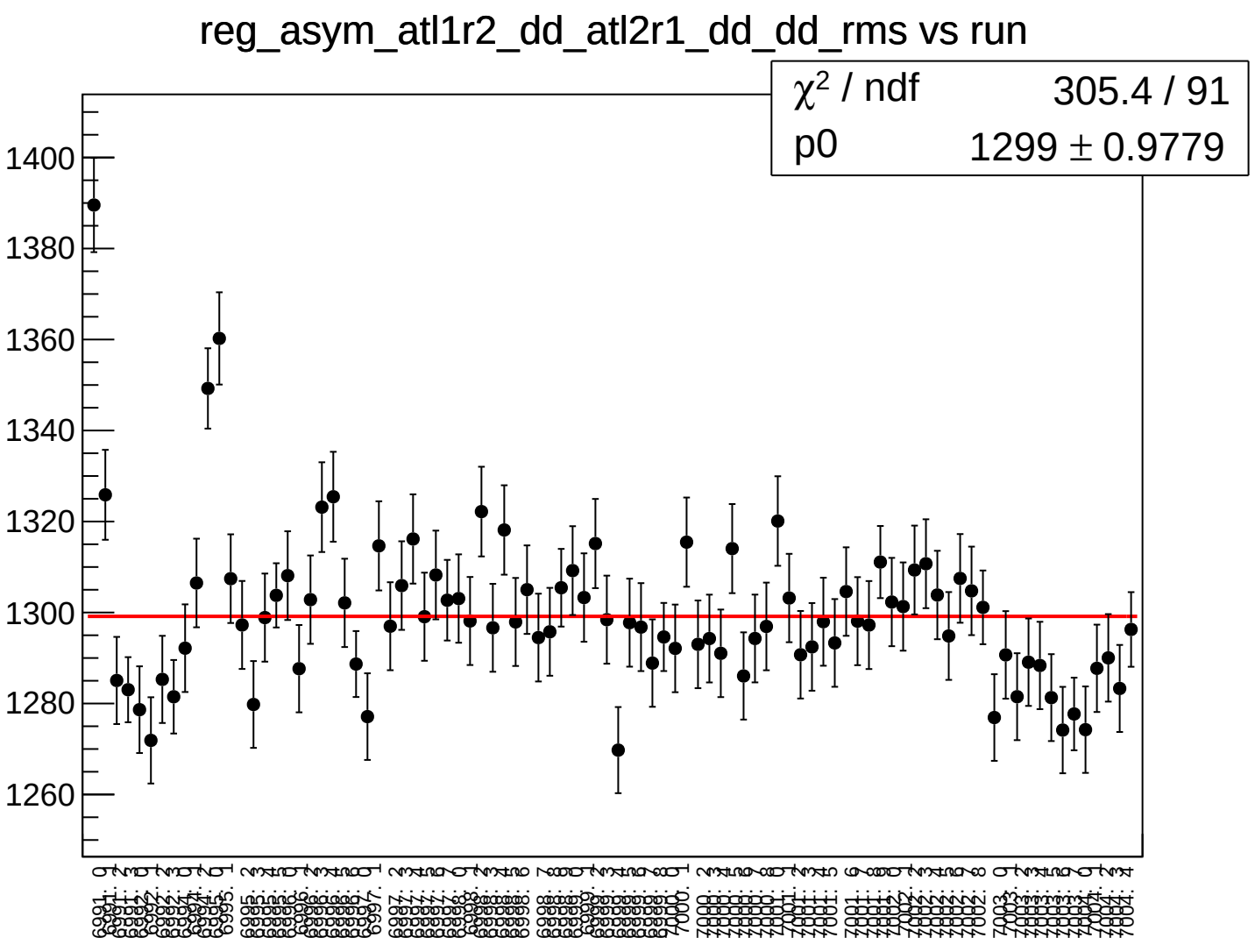

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

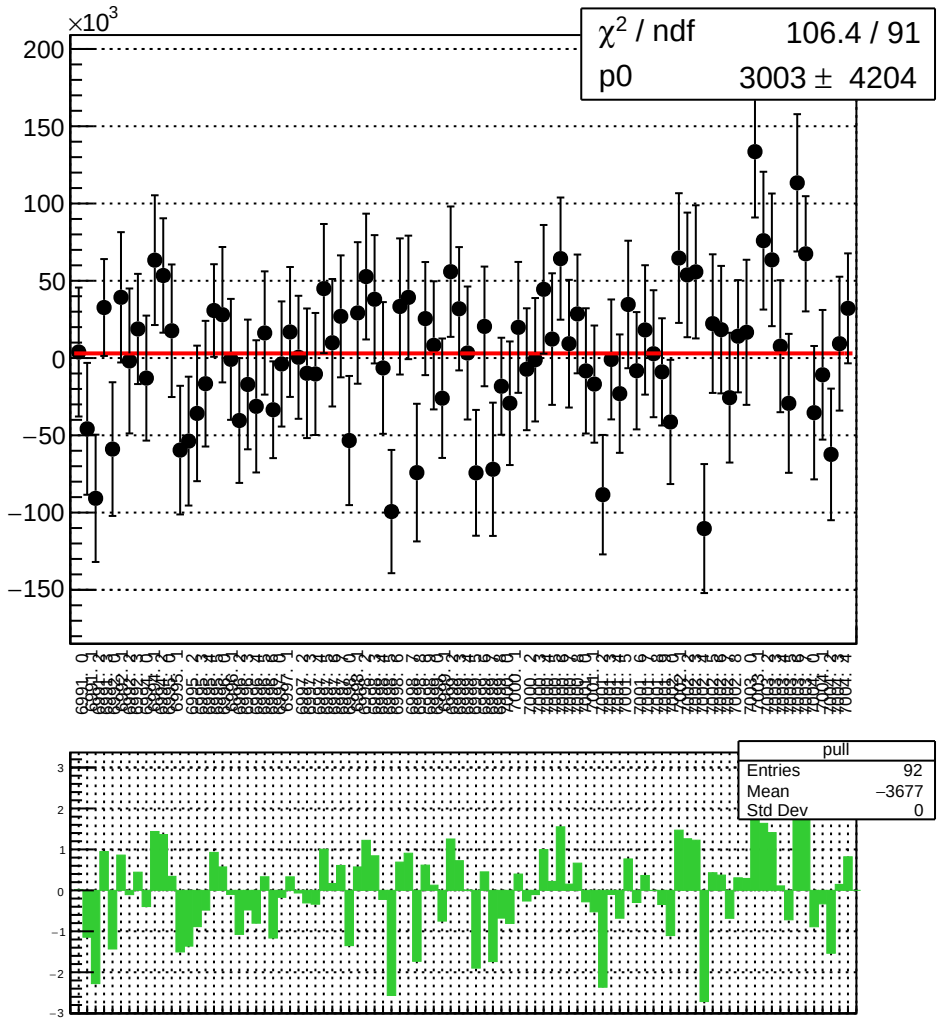

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 84.12 / 91
p0 −1.474e−13 ± 6.511e−14
pull
Entries 92
Mean 212.5
Std Dev 0
pull1D
Entries 92
Mean −0.02342
Std Dev 0.9559

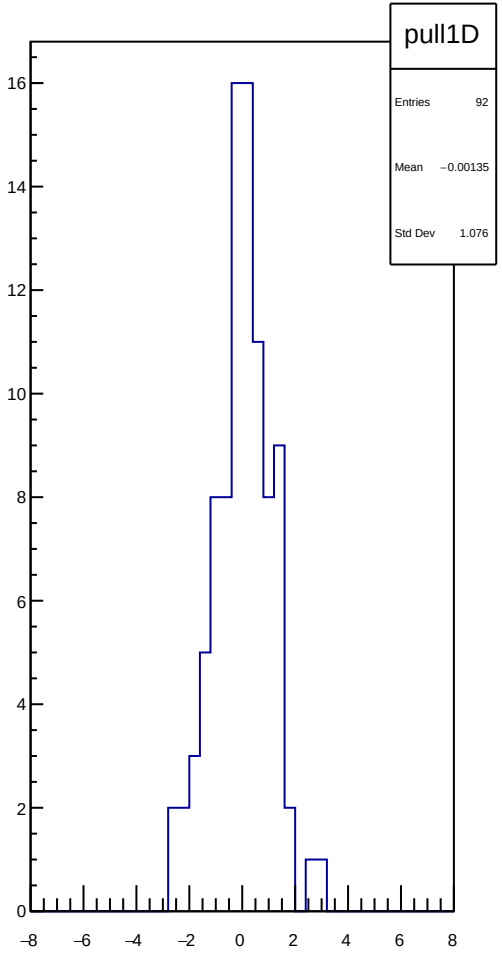

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.828e+05 / 91
p0 5.214e−11 ± 4.604e−14
0.25
0.2
0.15
0.1
0.05

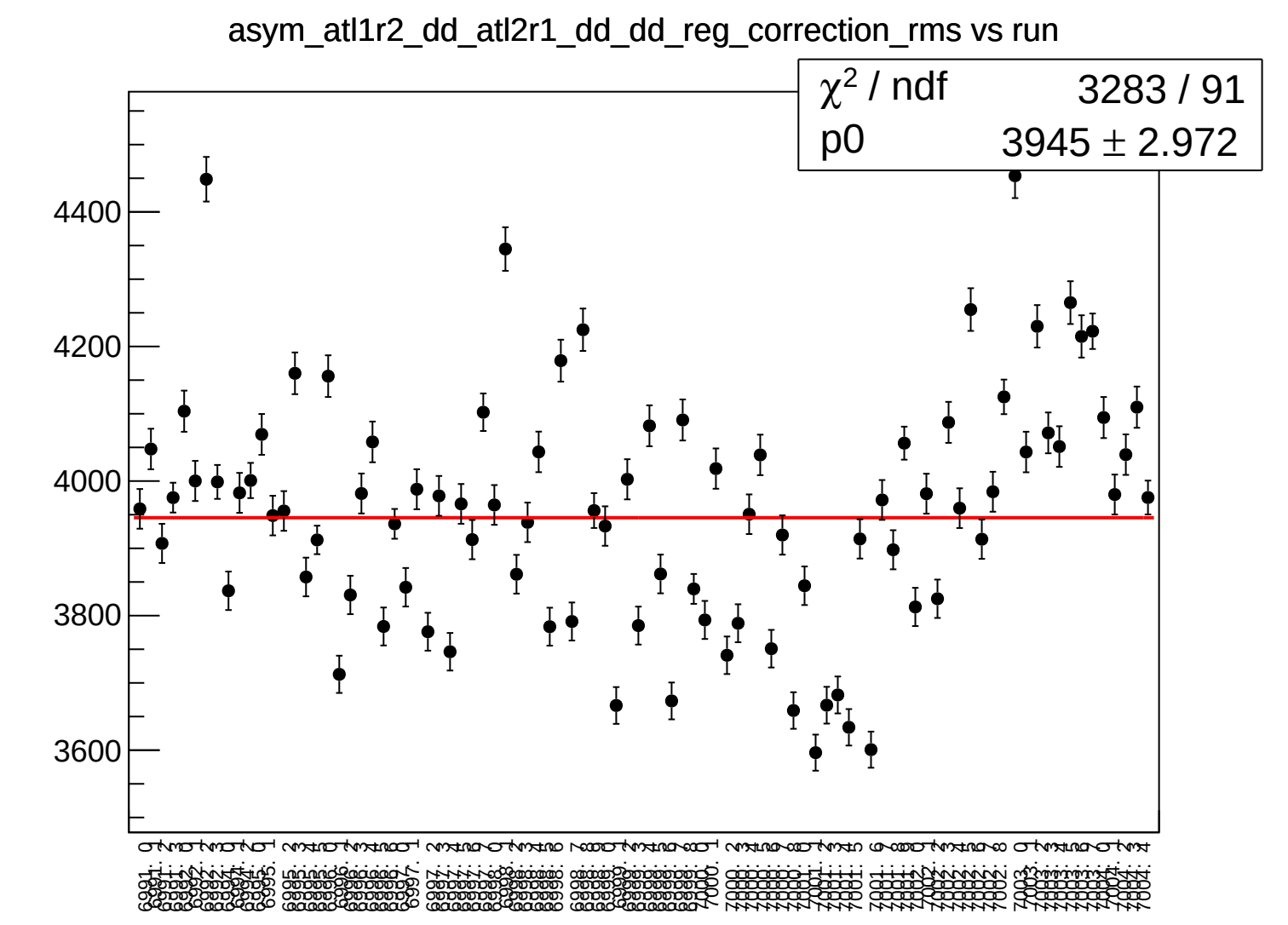

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 79.85 / 91
p0 −388.5 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 3370
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

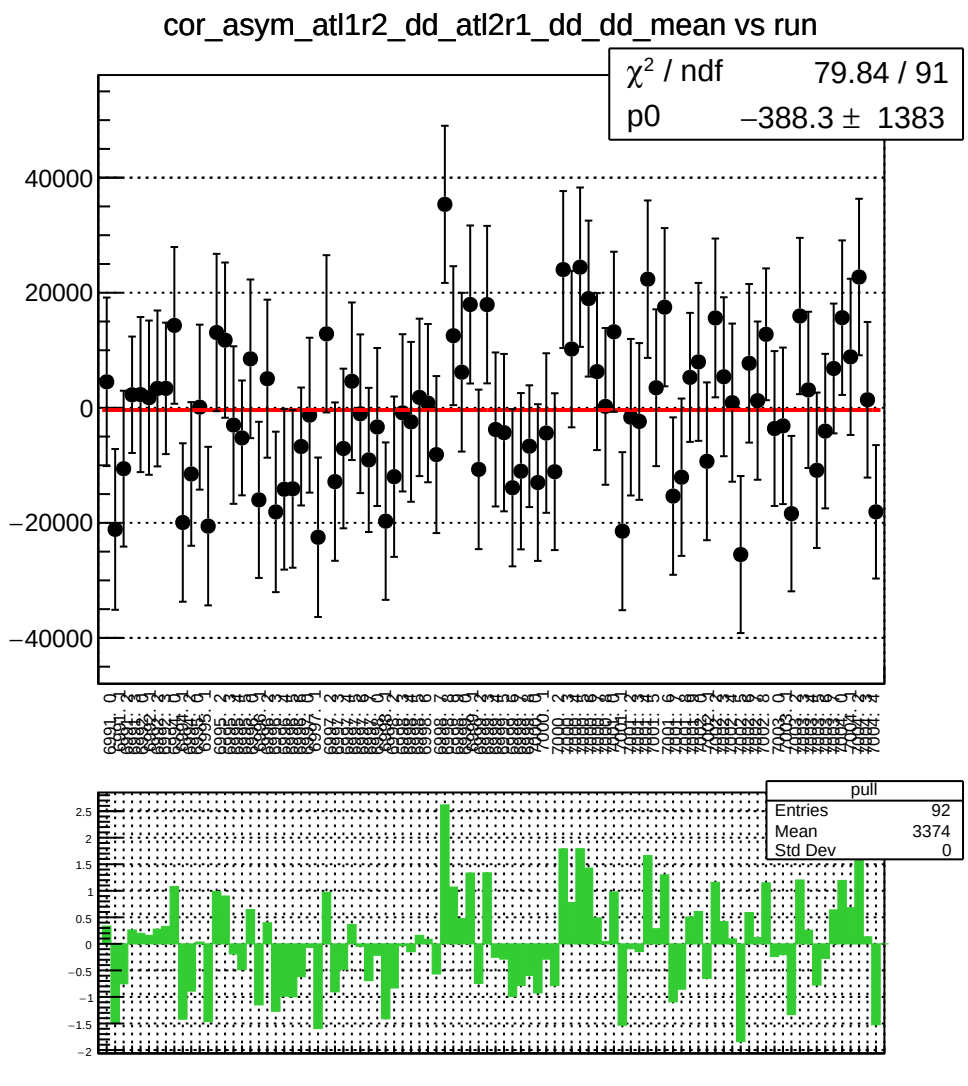

pull1D
Entries 92
Mean 0.001345
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

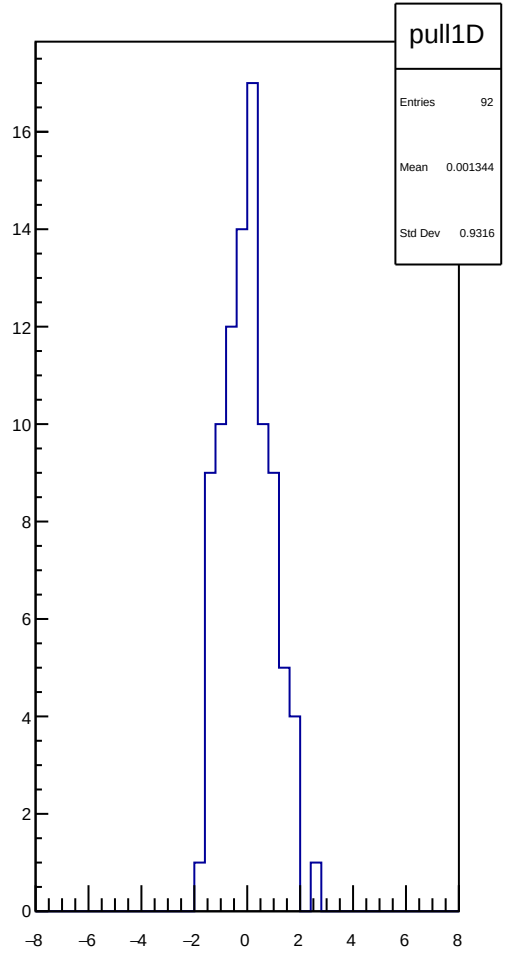

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 305.4 / 91
p0 1299 ± 0.9779
1400
1380
1360
1340
1320
1300
1280
1260

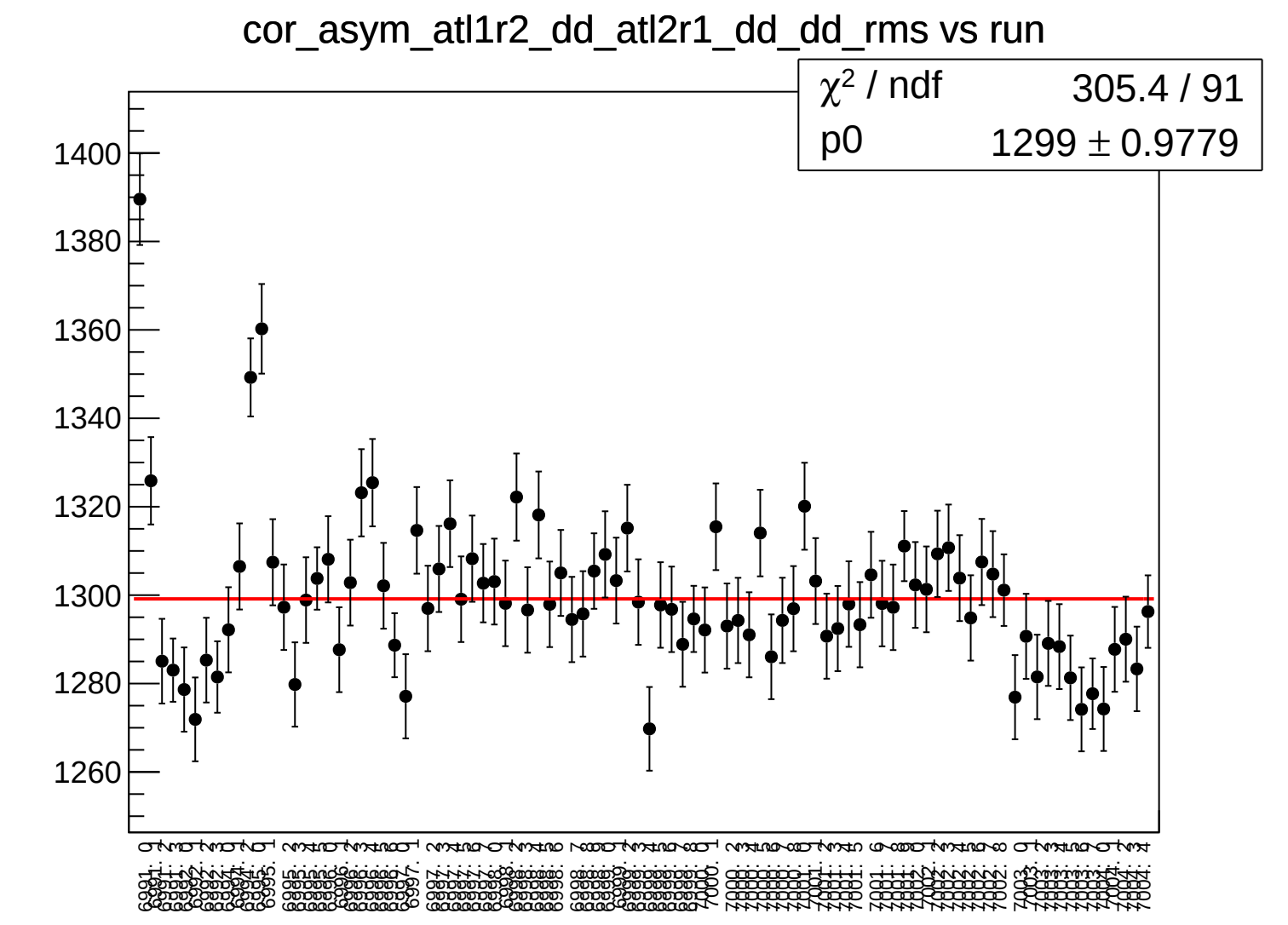

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 3003 ± 4204
pull
Entries 92
Mean −3677
Std Dev 0

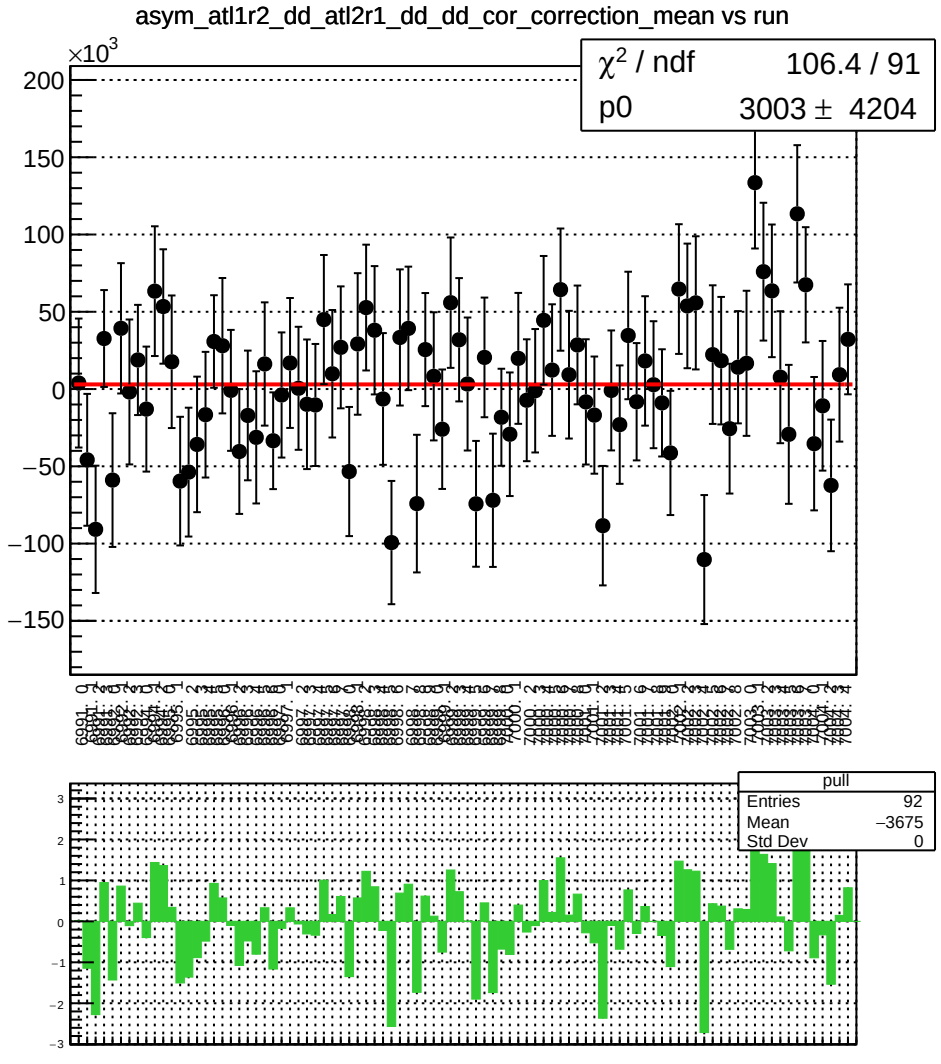

pull1D
Entries 92
Mean −0.00135
Std Dev 1.076

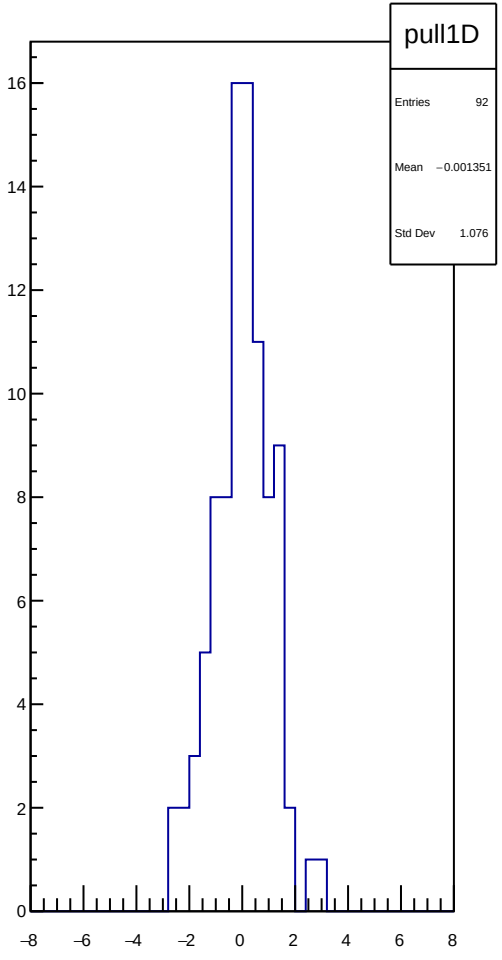

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 3283 / 91
p0 3945 ± 2.972
4400
4200
4000
3800
3600

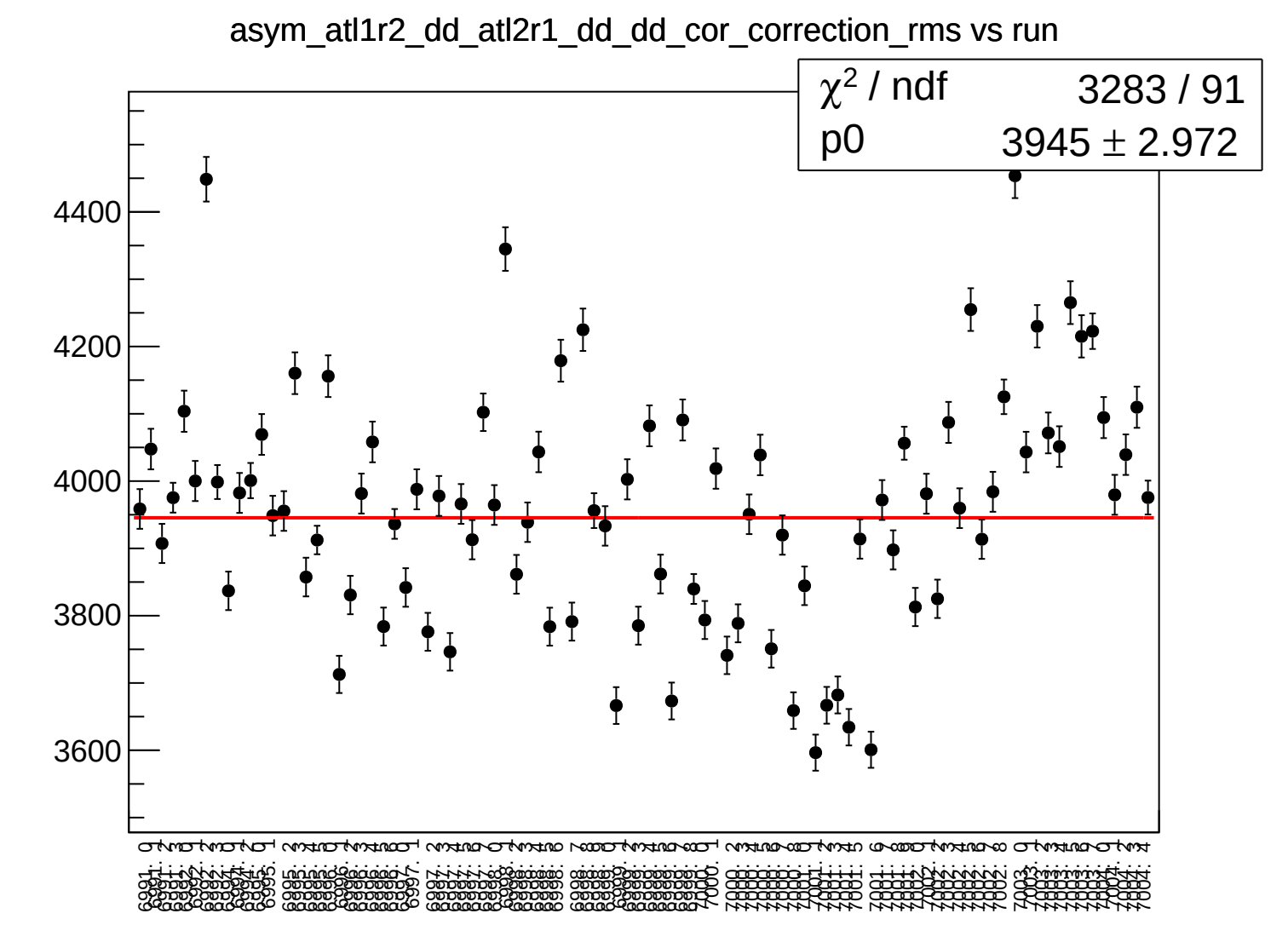

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 79.84 / 91
p0 −388.3 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 3374
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

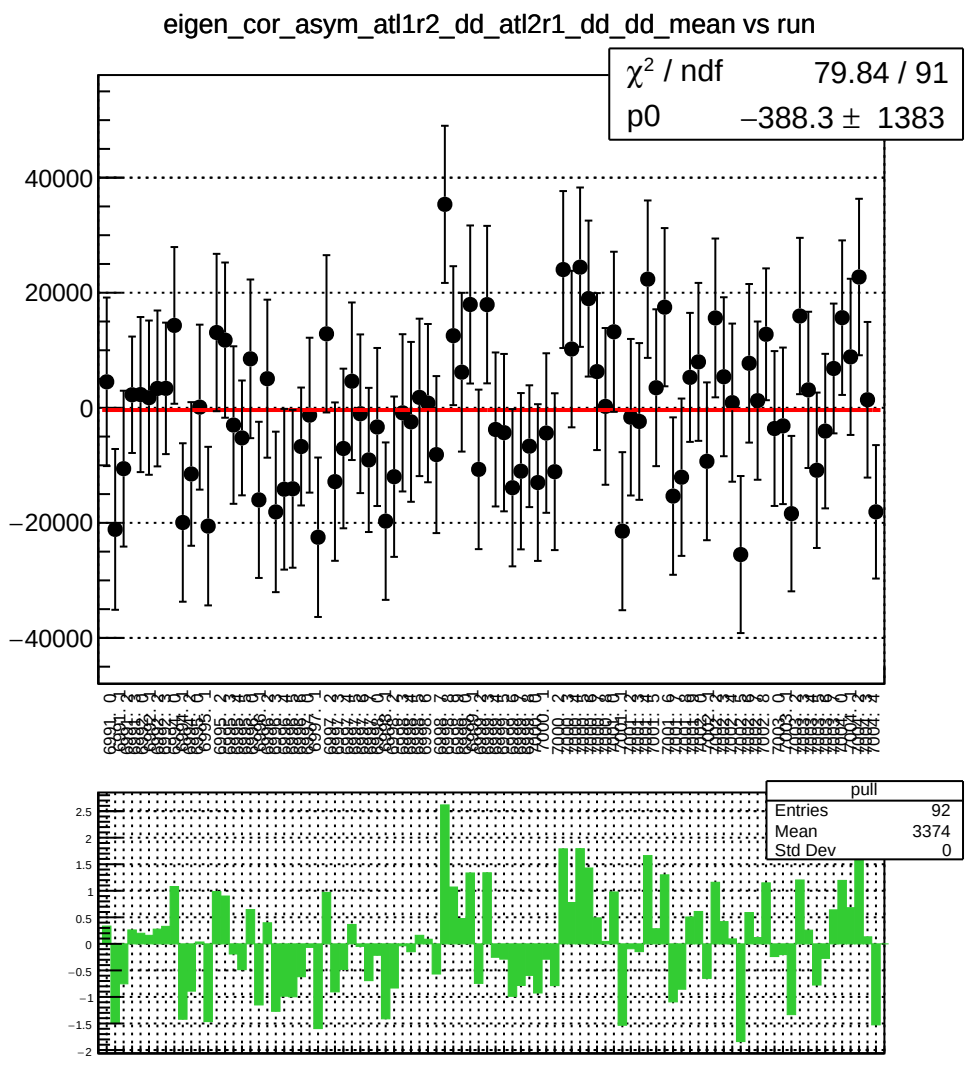

pull1D
Entries 92
Mean 0.001344
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

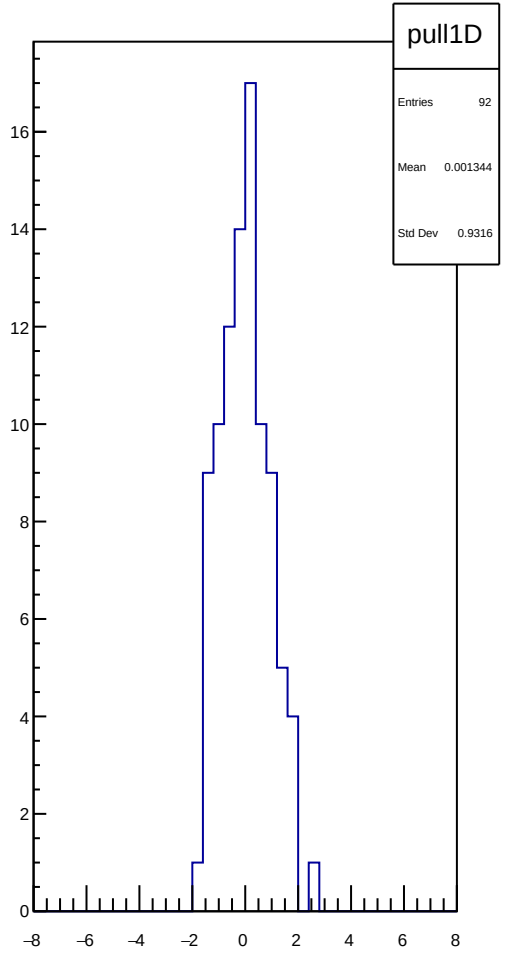

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 305.4 / 91
p0 1299 ± 0.9779
1400
1380
1360
1340
1320
1300
1280
1260

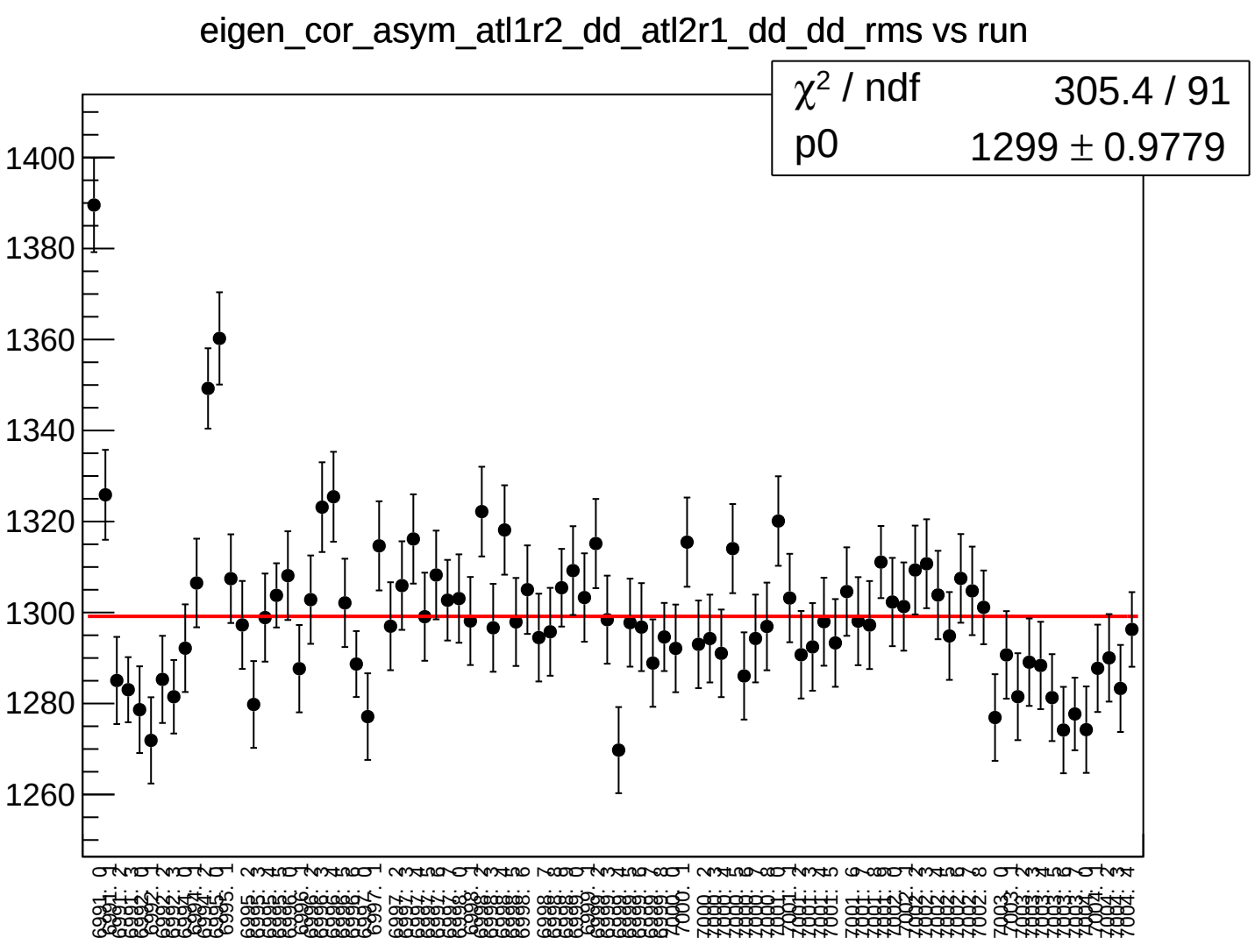

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 3003 ± 4204
pull
Entries 92
Mean −3675
Std Dev 0

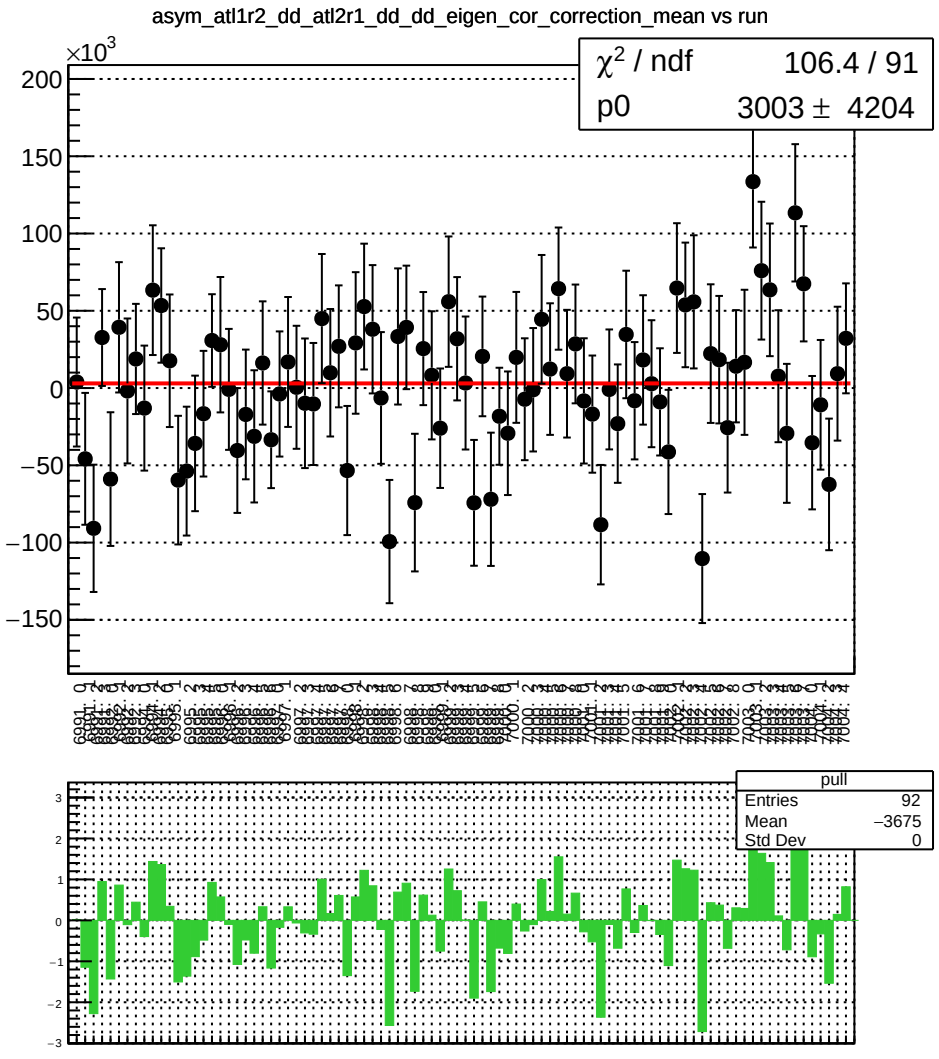

pull1D
Entries 92
Mean −0.001351
Std Dev 1.076

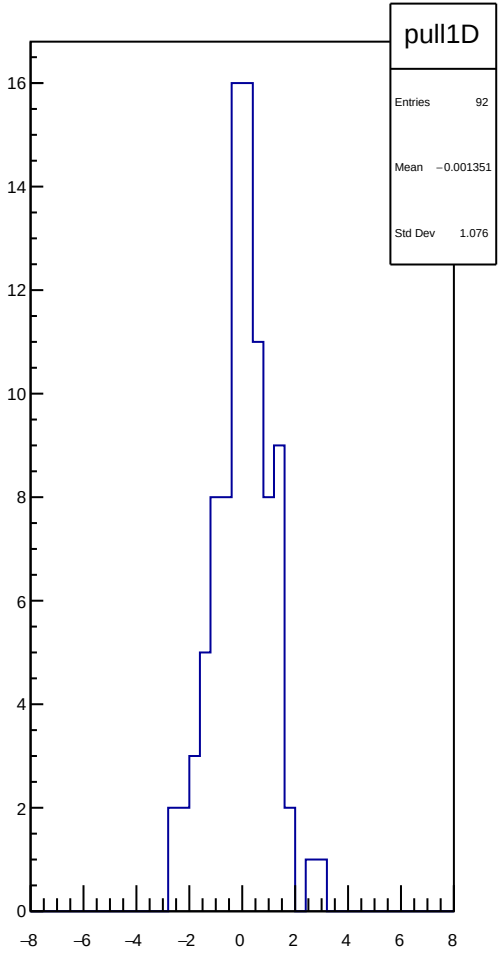

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 3283 / 91
p0 3945 ± 2.972
4400
4200
4000
3800
3600

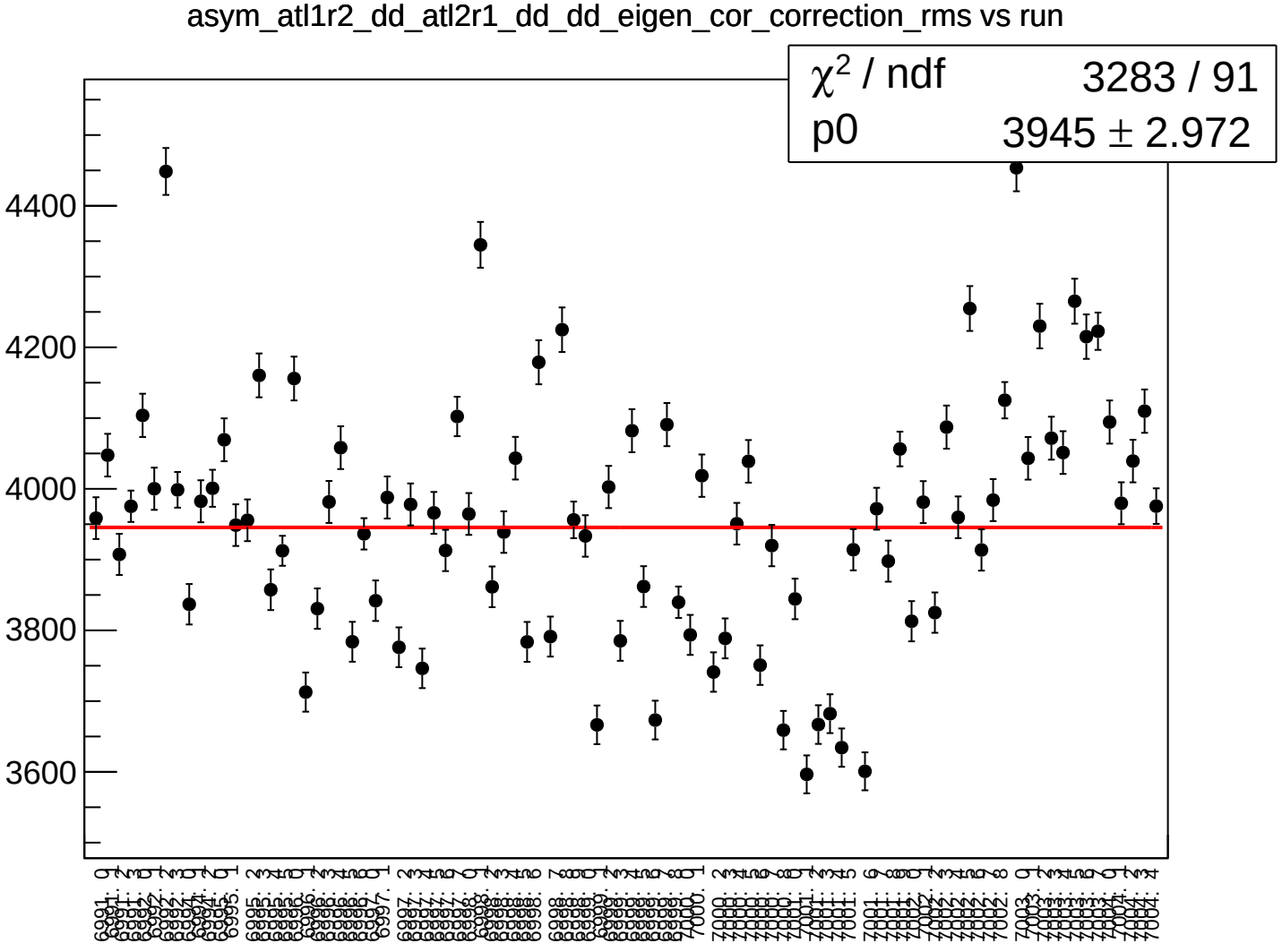

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 79.84 / 91
p0 −388.3 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 3374
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

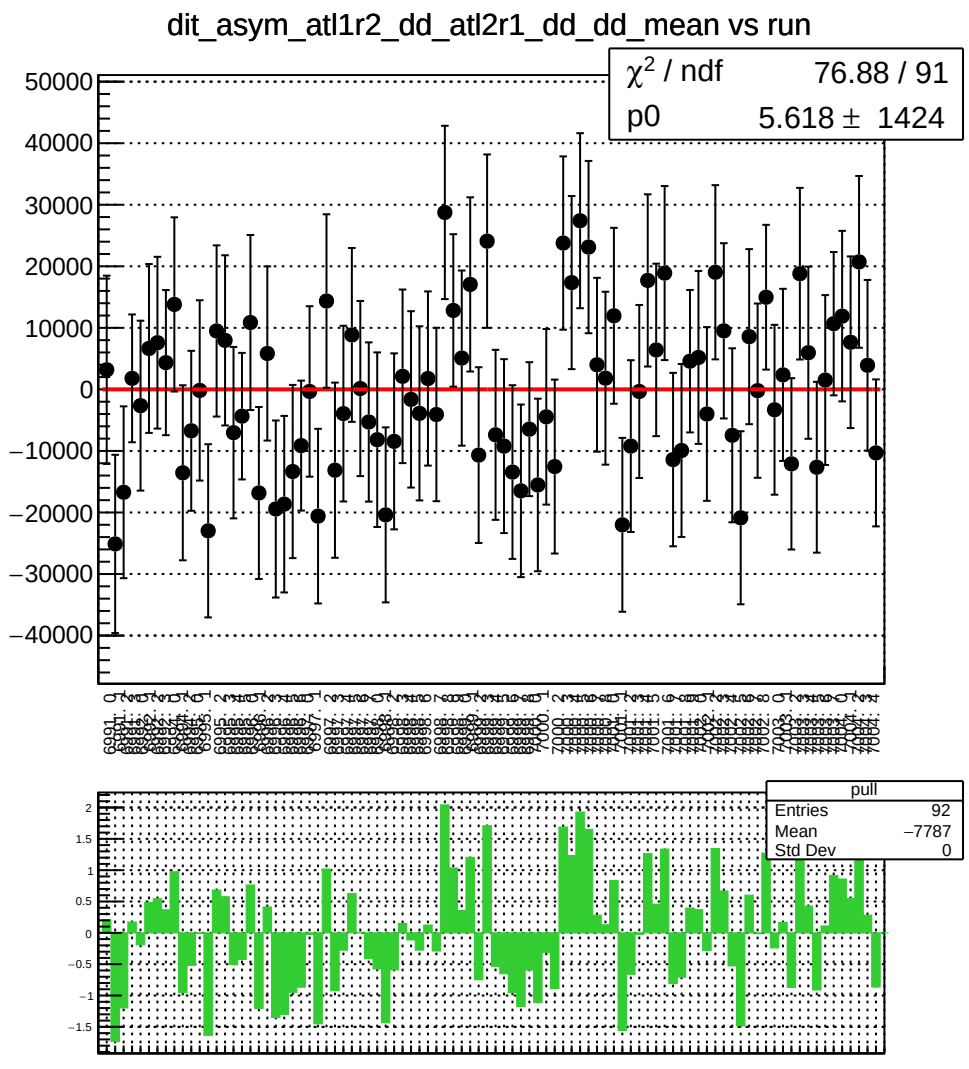

pull1D
Entries 92
Mean 0.001344
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

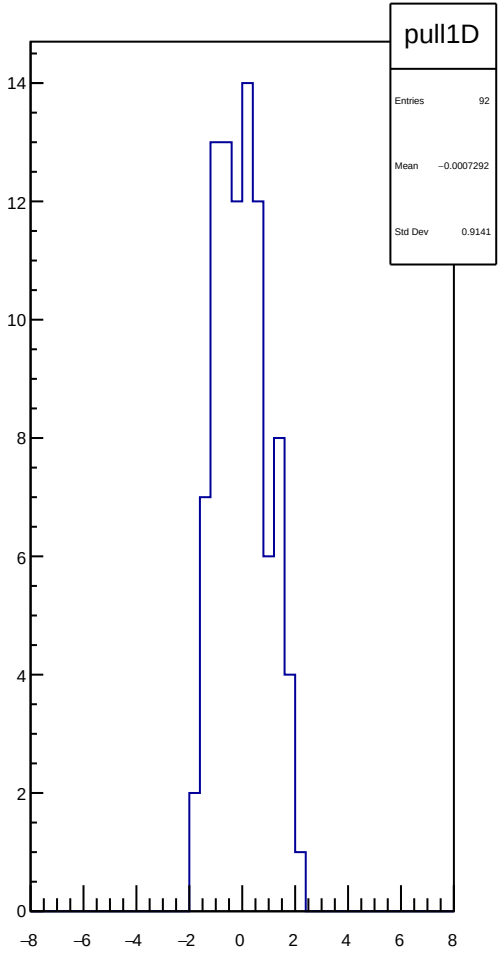

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 305.4 / 91
p0 1299 ± 0.9779
1400
1380
1360
1340
1320
1300
1280
1260

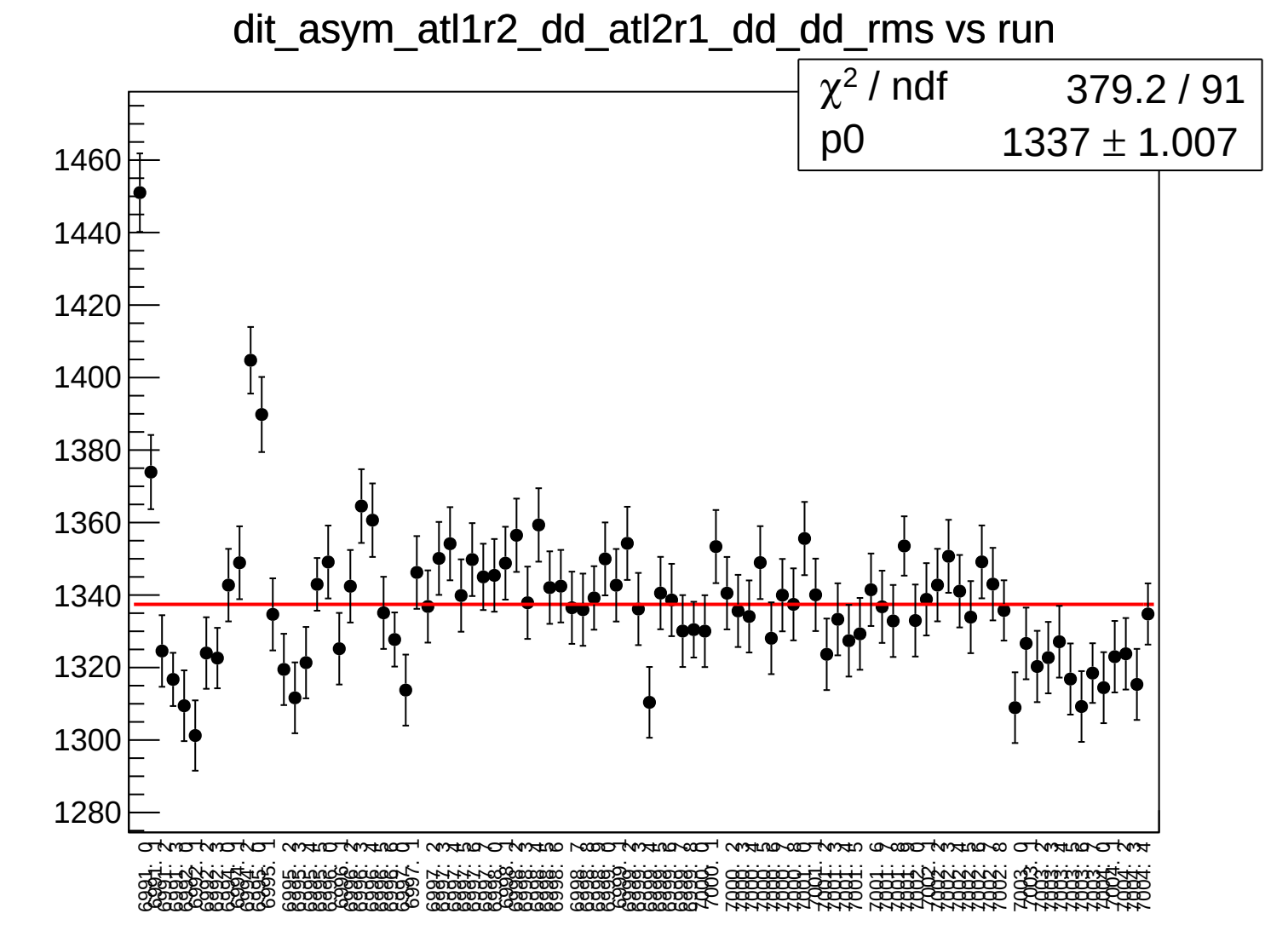

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 3003 ± 4204
pull
Entries 92
Mean −3675
Std Dev 0

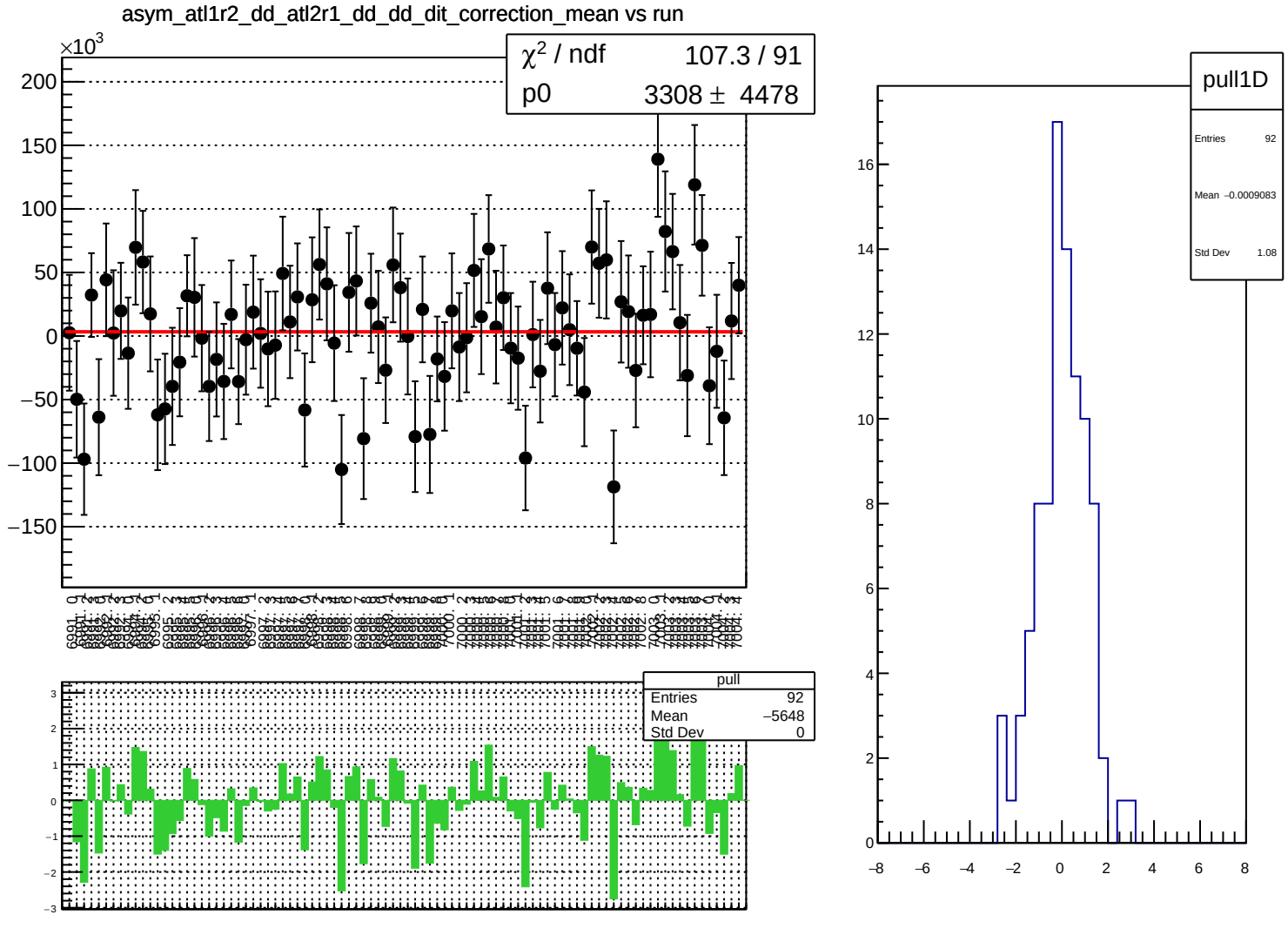

pull1D
Entries 92
Mean −0.001351
Std Dev 1.076

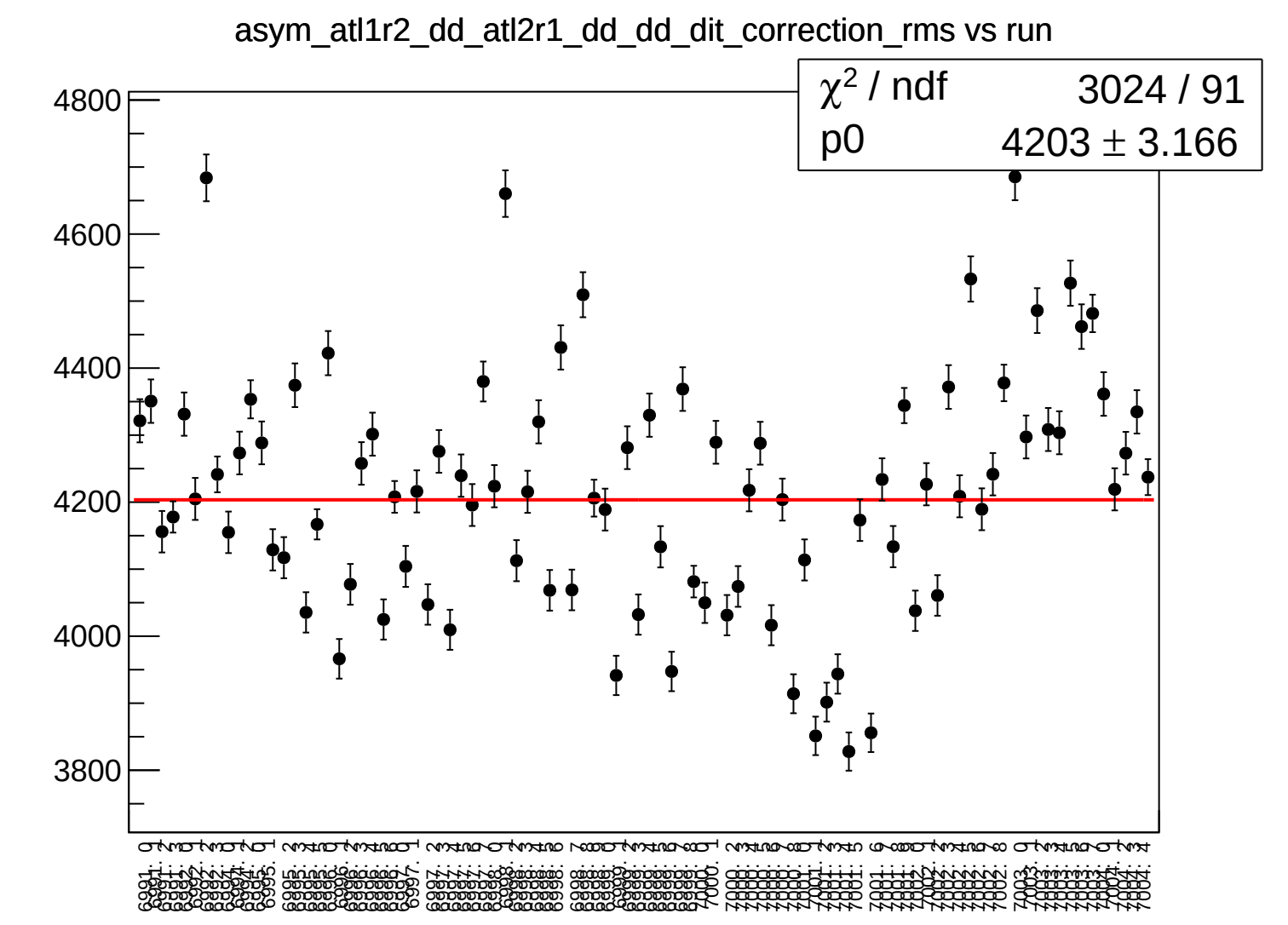

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3283 / 91
p0 3945 ± 2.972
4400
4200
4000
3800
3600

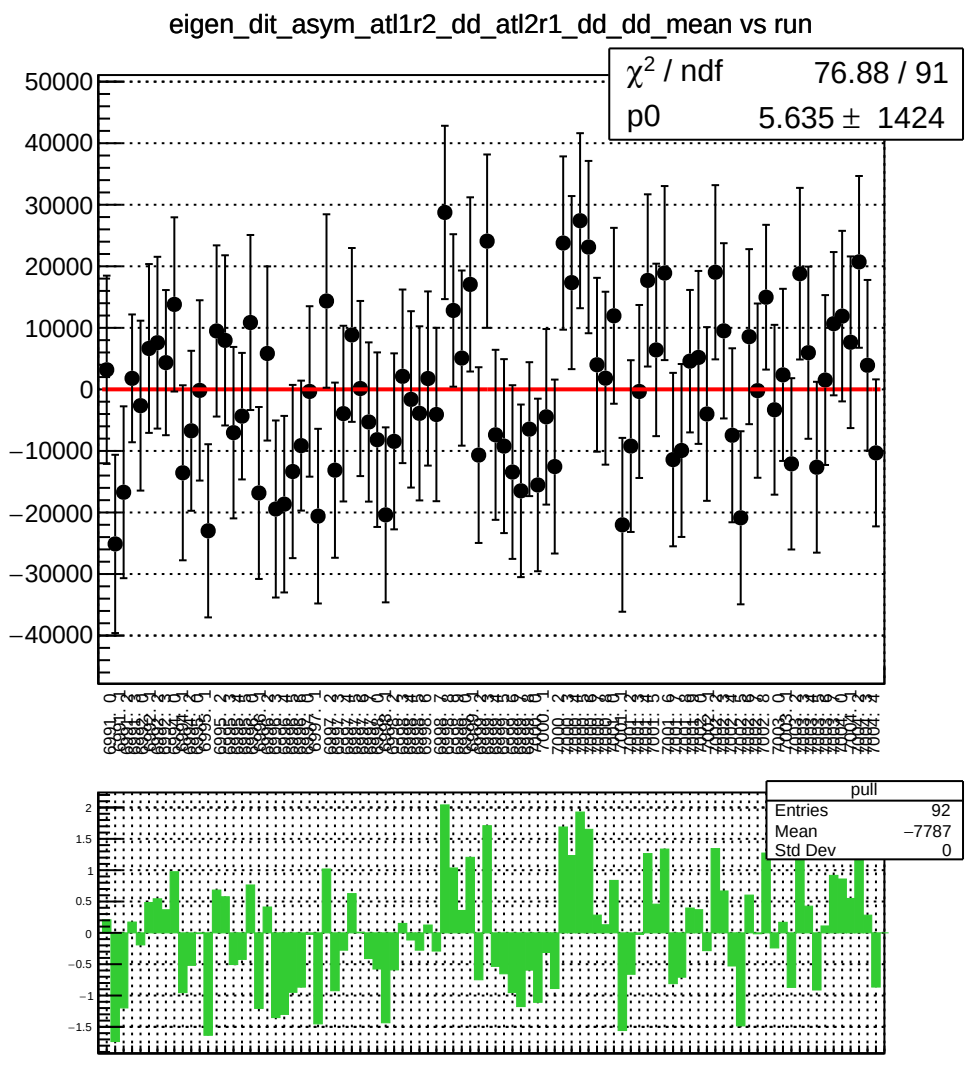

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.88 / 91
p0 5.618 ± 1424
pull
Entries 92
Mean −7787
Std Dev 0

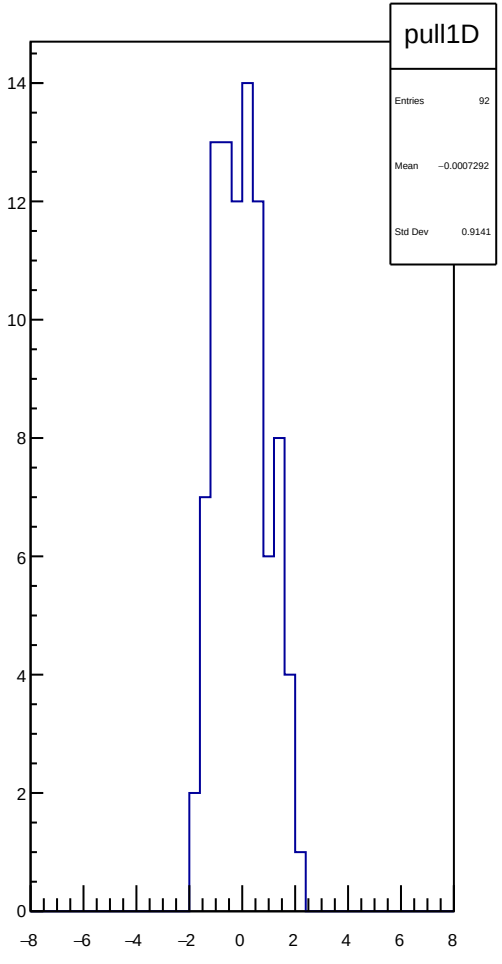

pull1D
Entries 92
Mean −0.0007292
Std Dev 0.9141

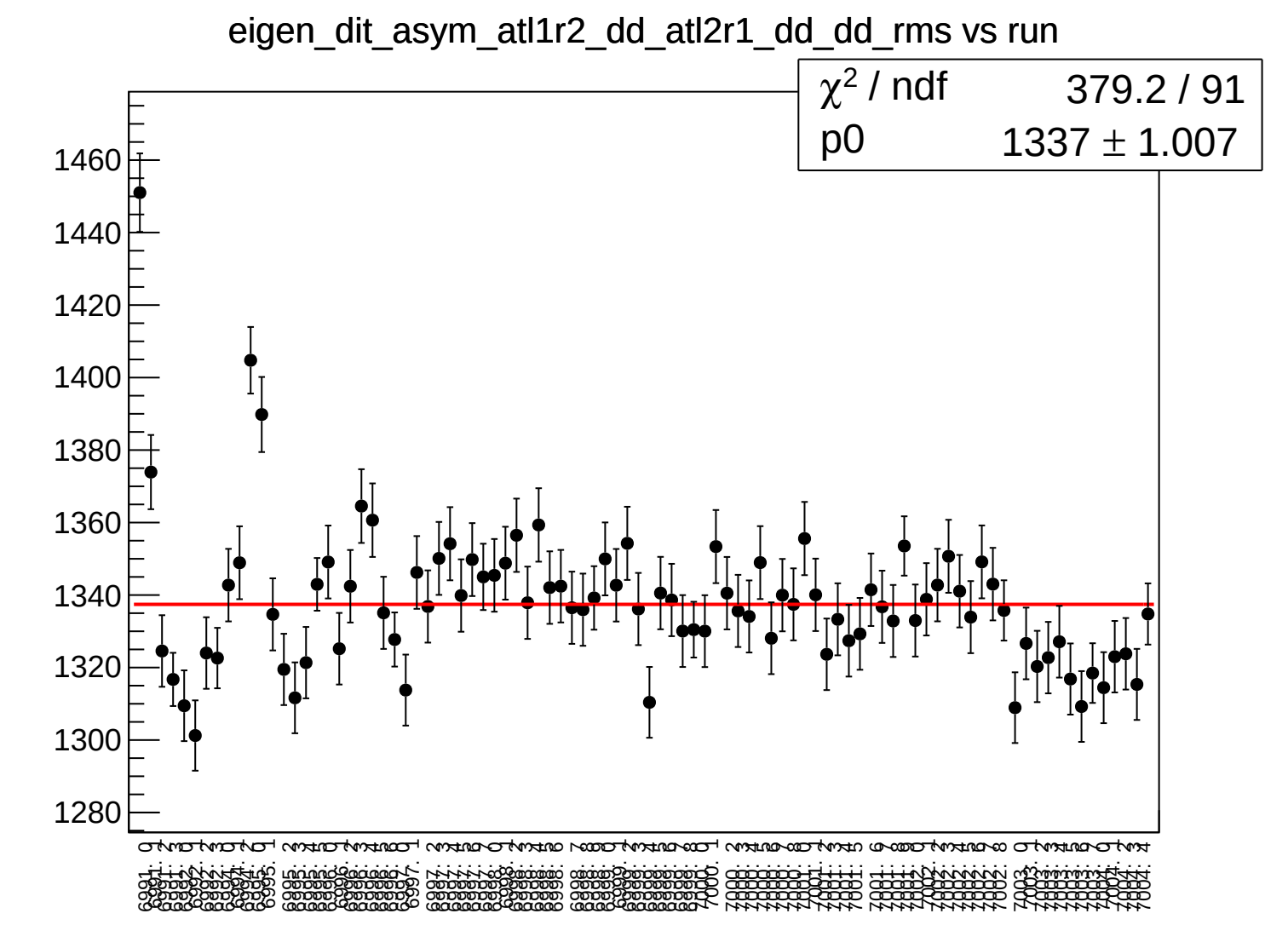

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 379.2 / 91
p0 1337 ± 1.007
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

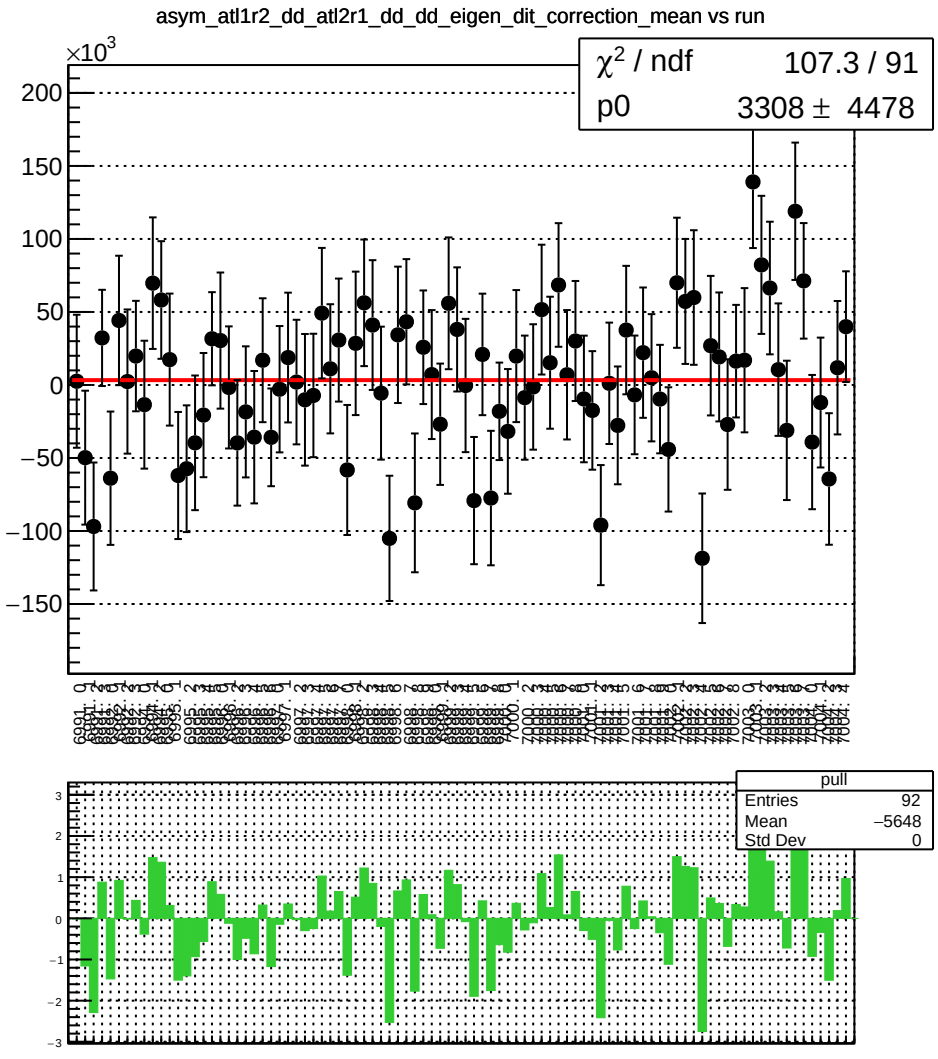

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 3308 ± 4478
pull
Entries 92
Mean −5648
Std Dev 0
pull1D
Entries 92
Mean −0.0009083
Std Dev 1.08

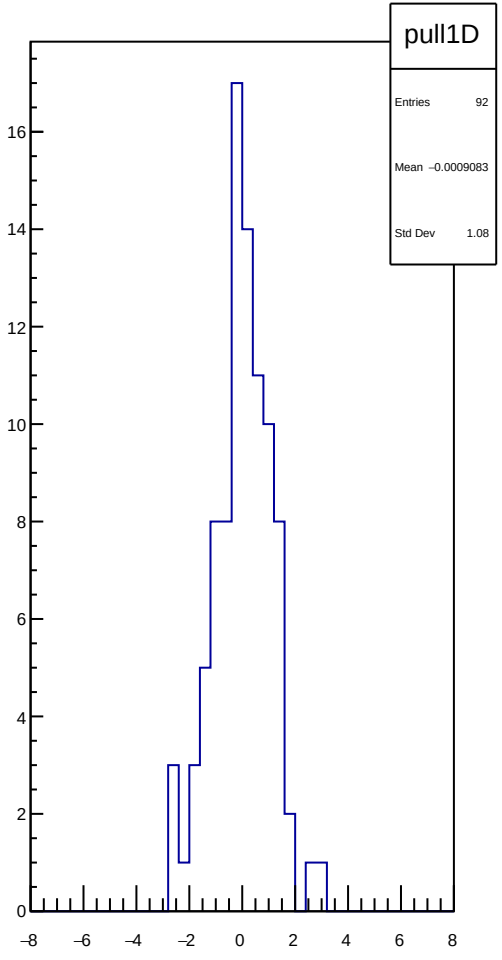

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3024 / 91
p0 4203 ± 3.166
4800
4600
4400
4200
4000
3800

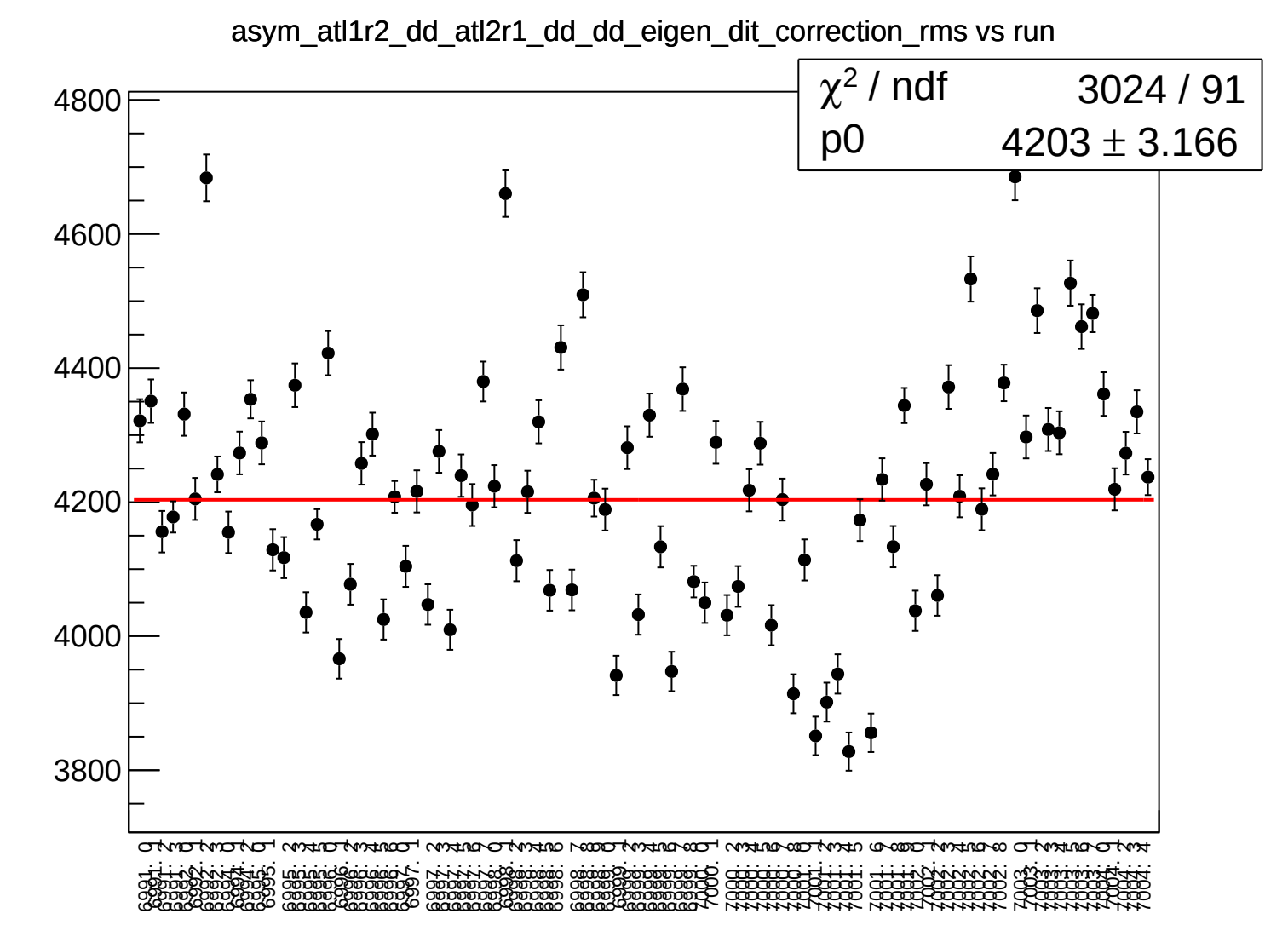

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 76.88 / 91
p0 5.635 ± 1424
pull
Entries 92
Mean −7787
Std Dev 0

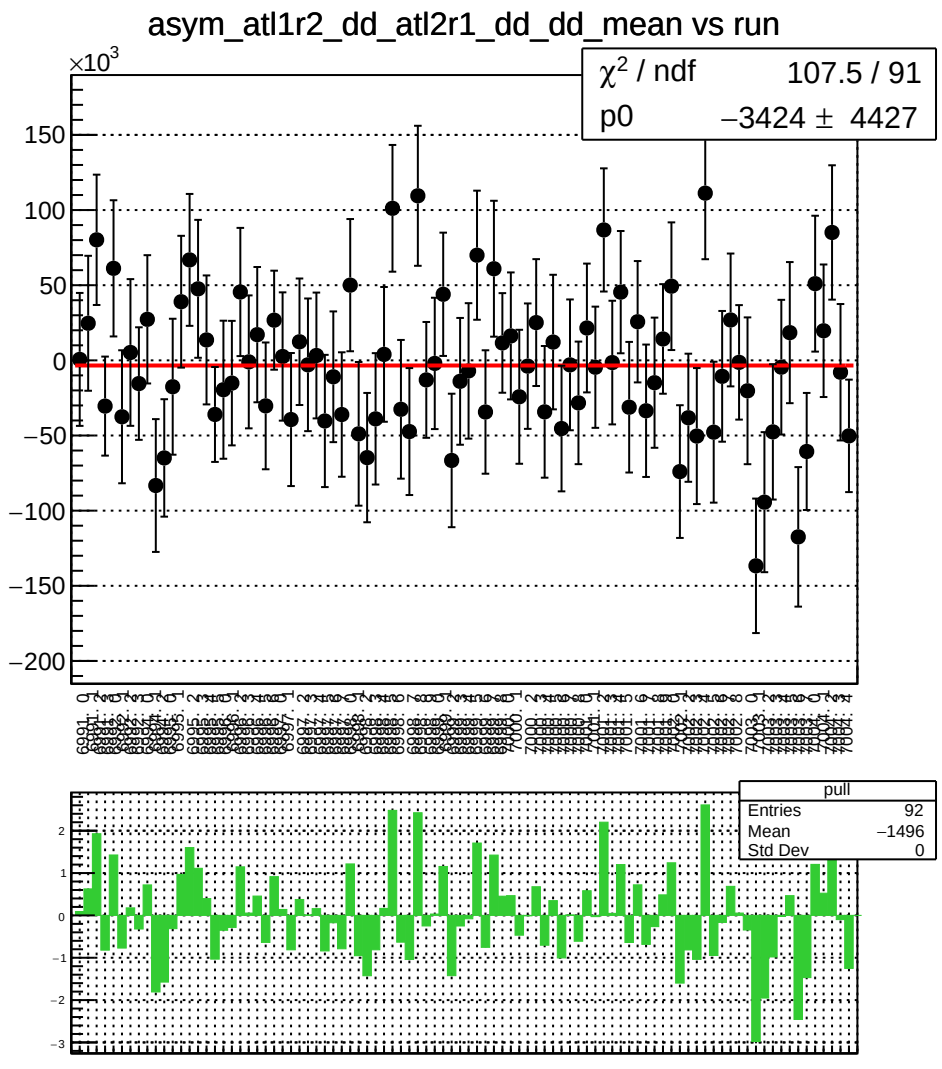

pull1D
Entries 92
Mean −0.0007292
Std Dev 0.9141

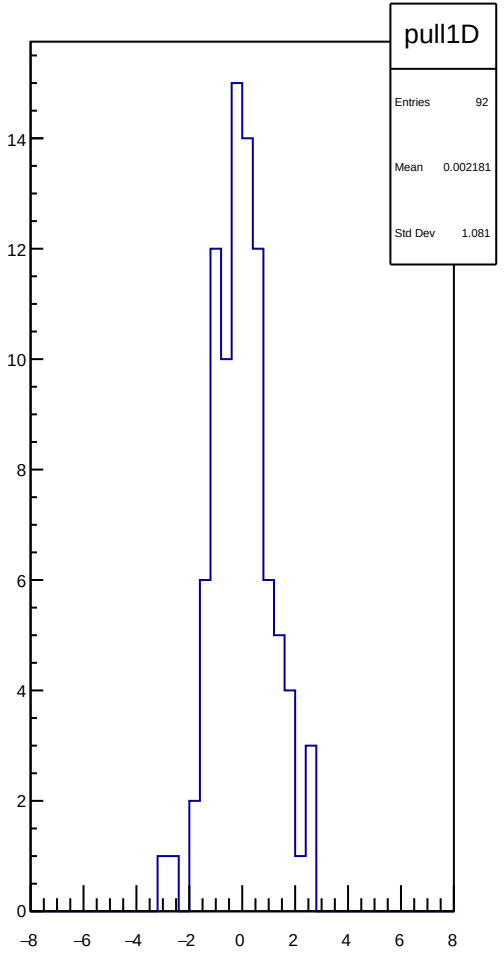

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 379.2 / 91
p0 1337 ± 1.007
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

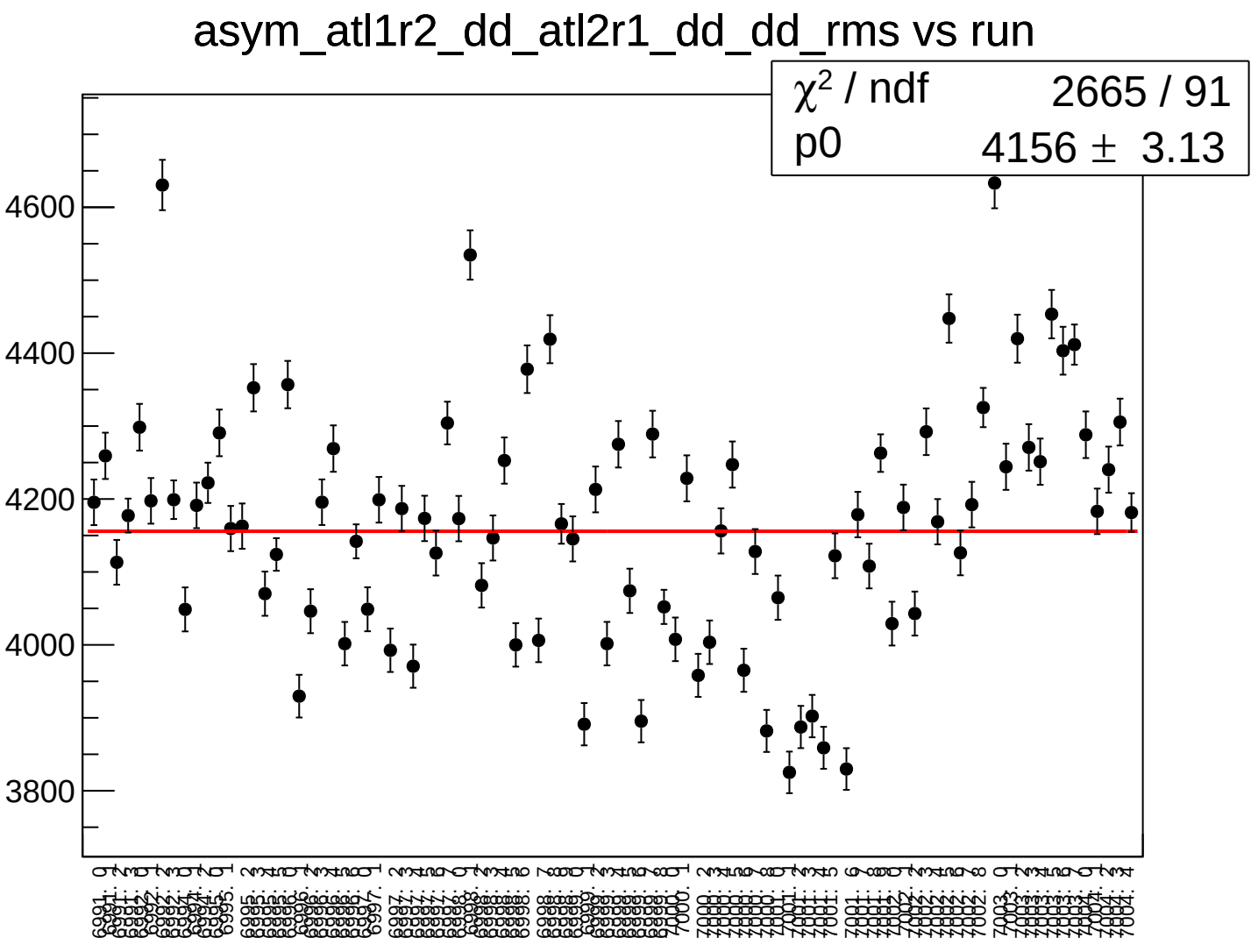

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.3 / 91
p0 3308 ± 4478
pull
Entries 92
Mean −5648
Std Dev 0

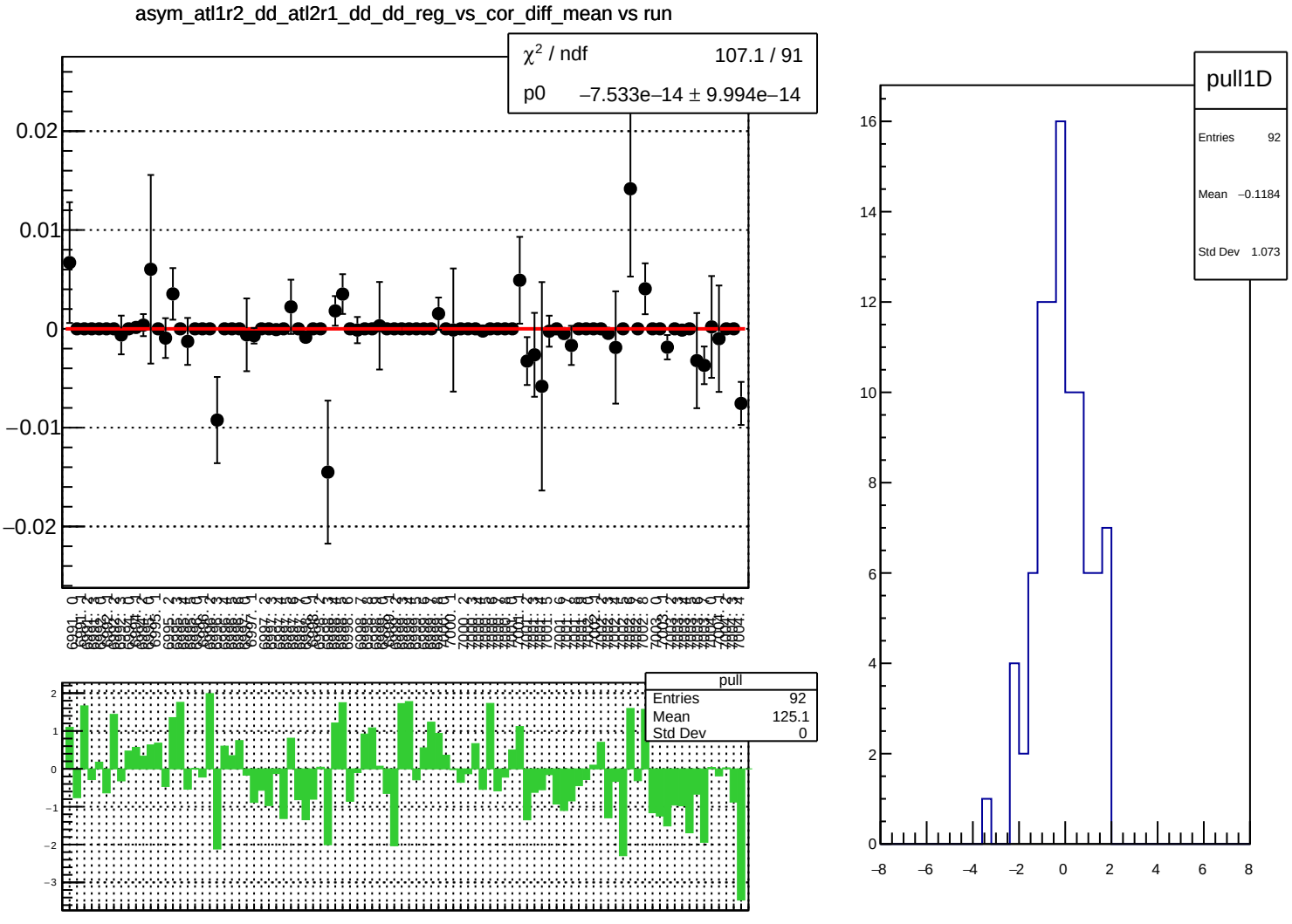

pull1D
Entries 92
Mean −0.0009083
Std Dev 1.08

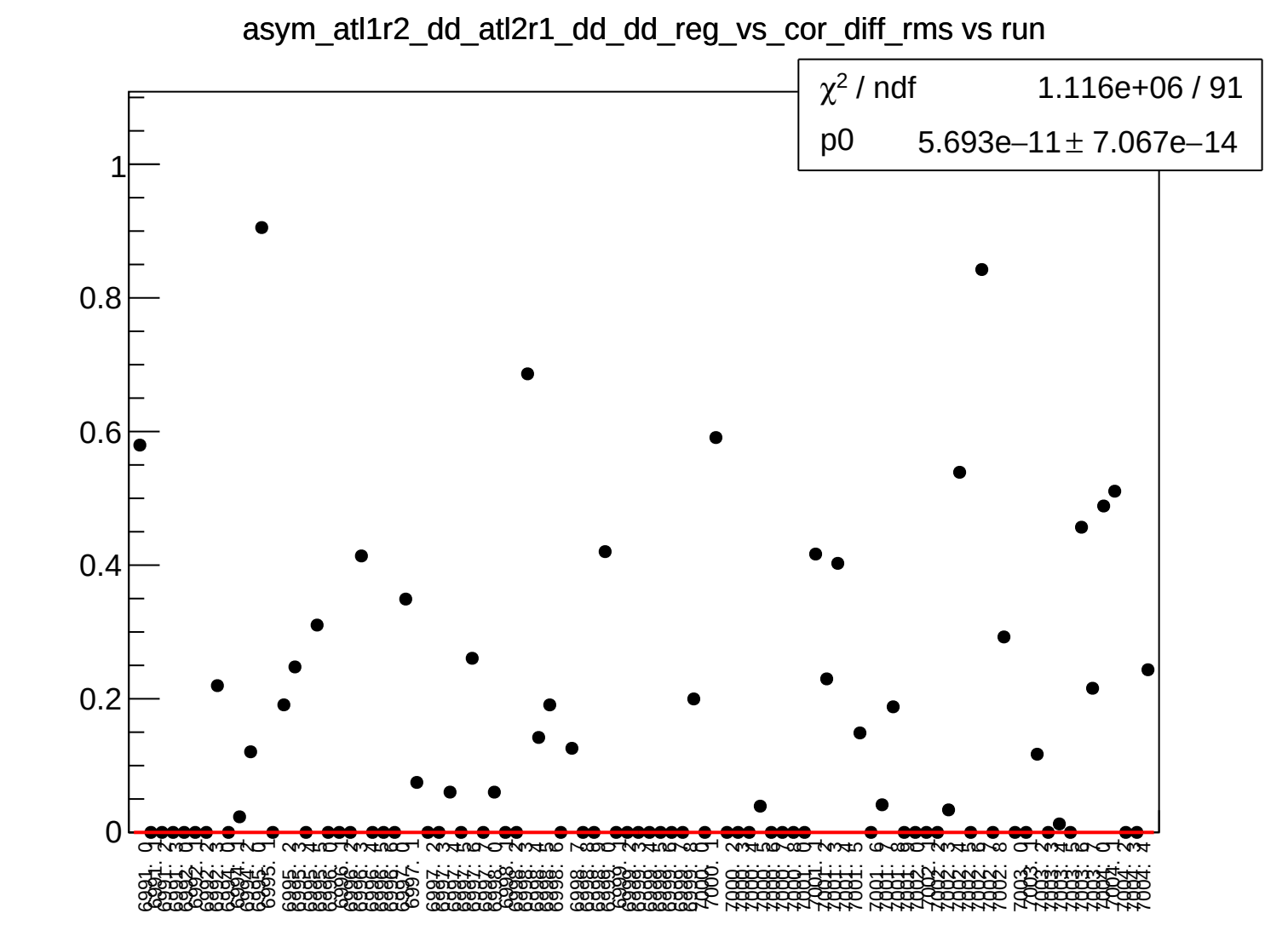

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3024 / 91
p0 4203 ± 3.166
4800
4600
4400
4200
4000
3800

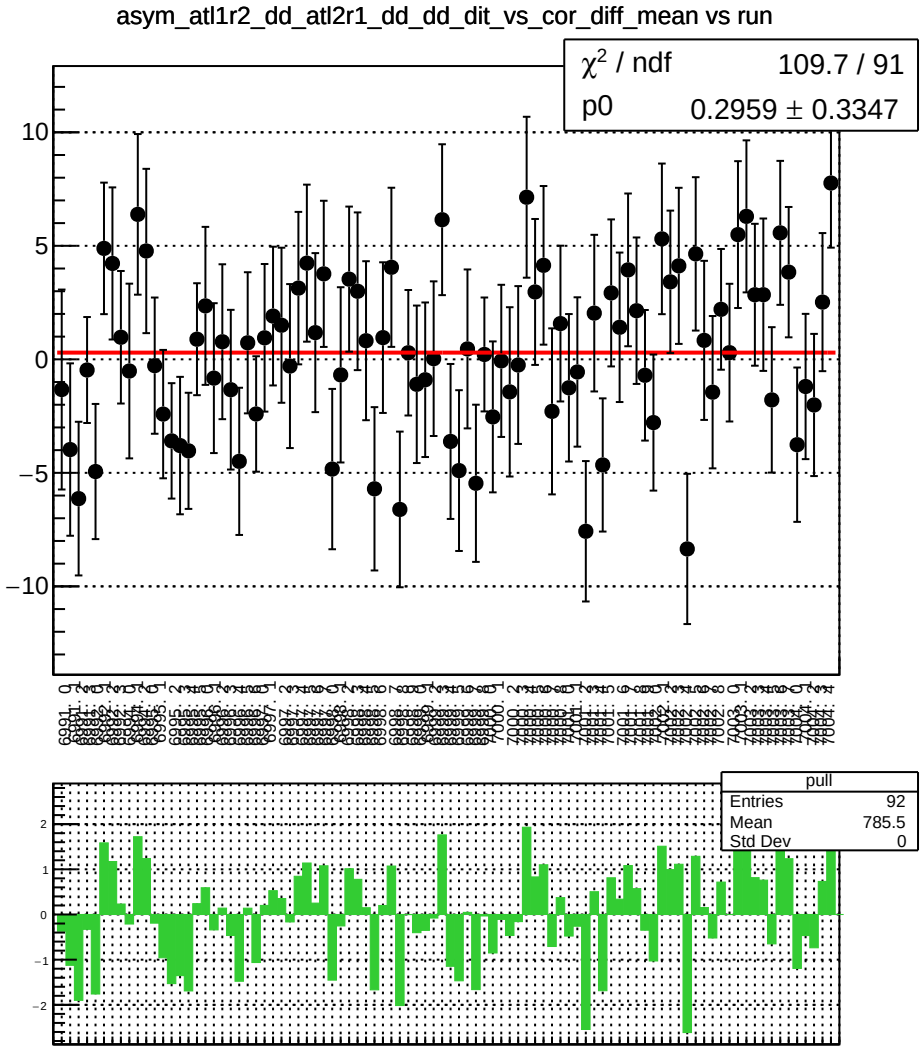

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 107.5 / 91
p0 −3424 ± 4427
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −1496
Std Dev 0
2
1
0
−1
−2
−3

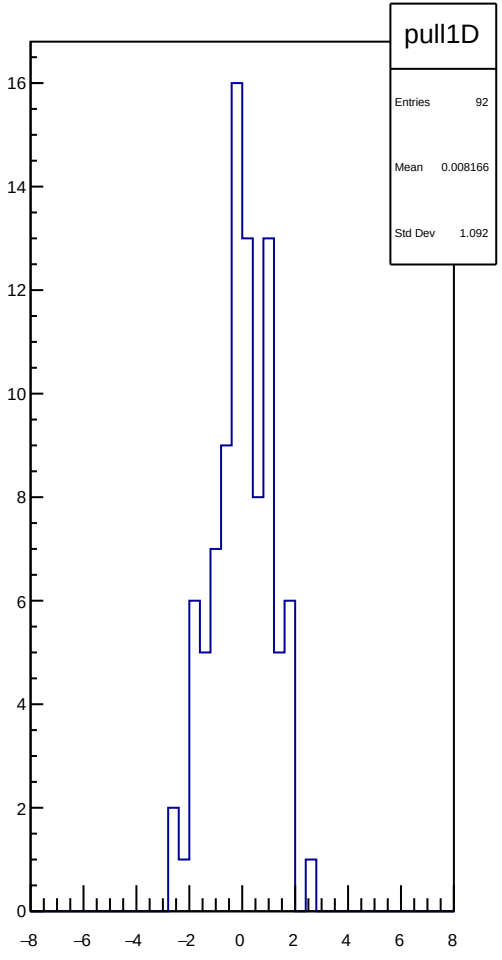

pull1D
Entries 92
Mean 0.002181
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

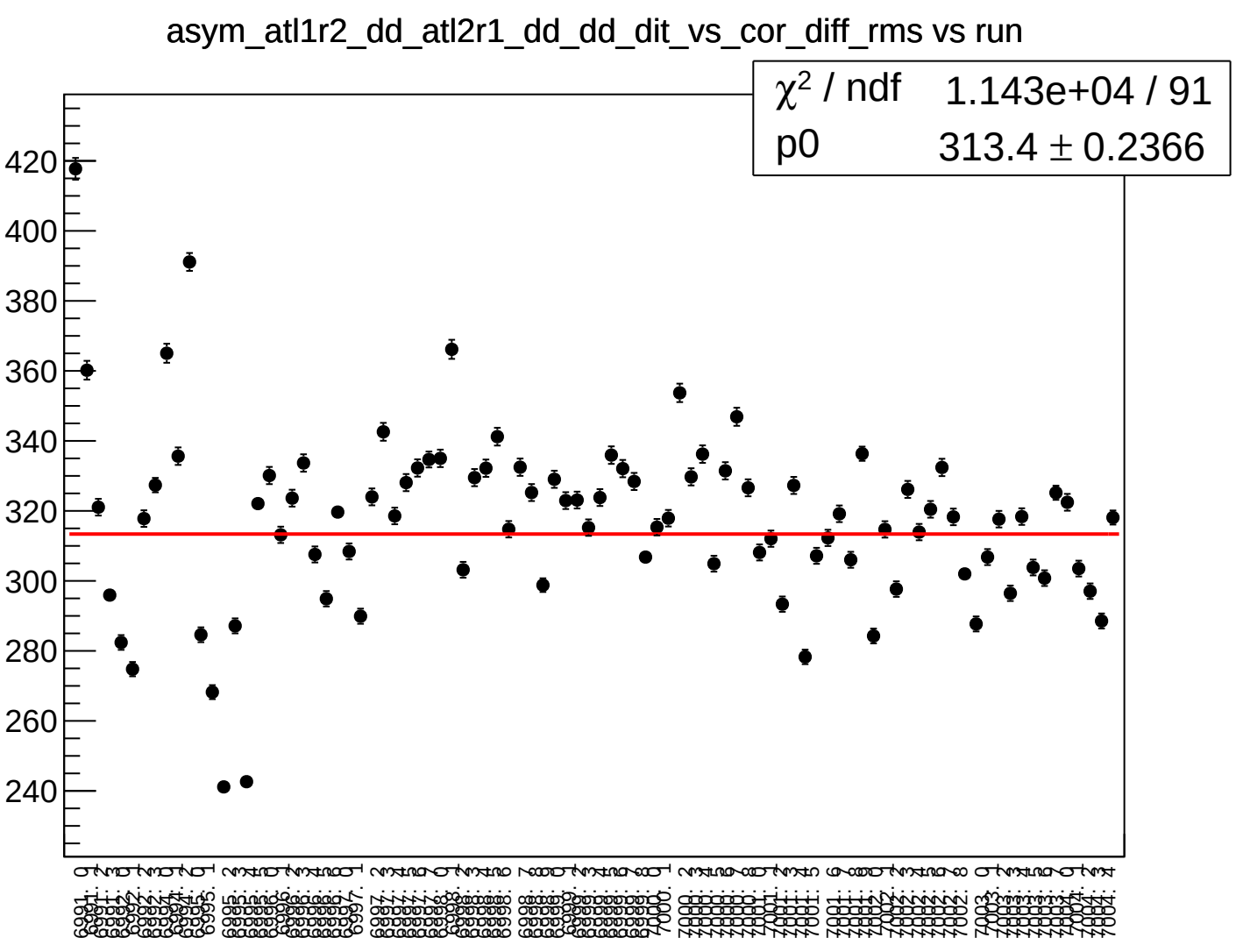

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2665 / 91
p0 4156 ± 3.13
4600
4400
4200
4000
3800

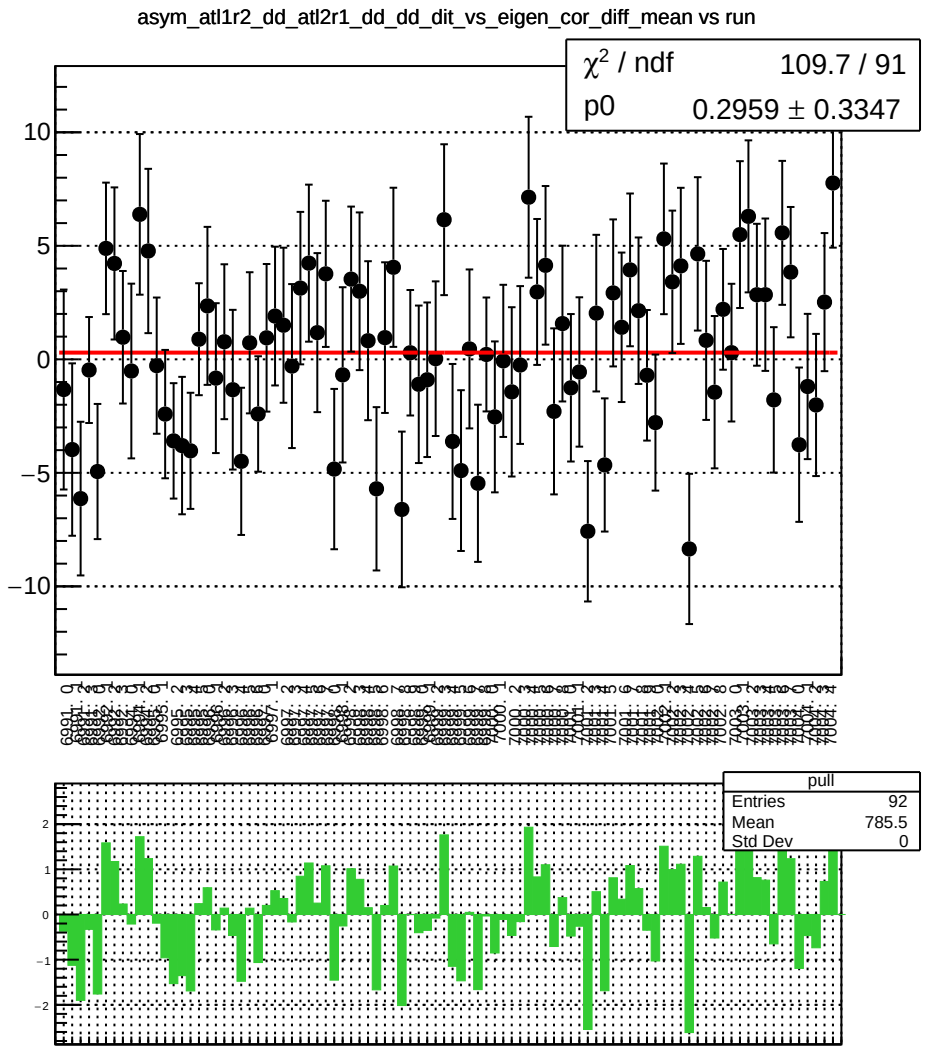

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 91
p0 −7.533e−14 ± 9.994e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 125.1
Std Dev 0
pull1D
Entries 92
Mean −0.1184
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

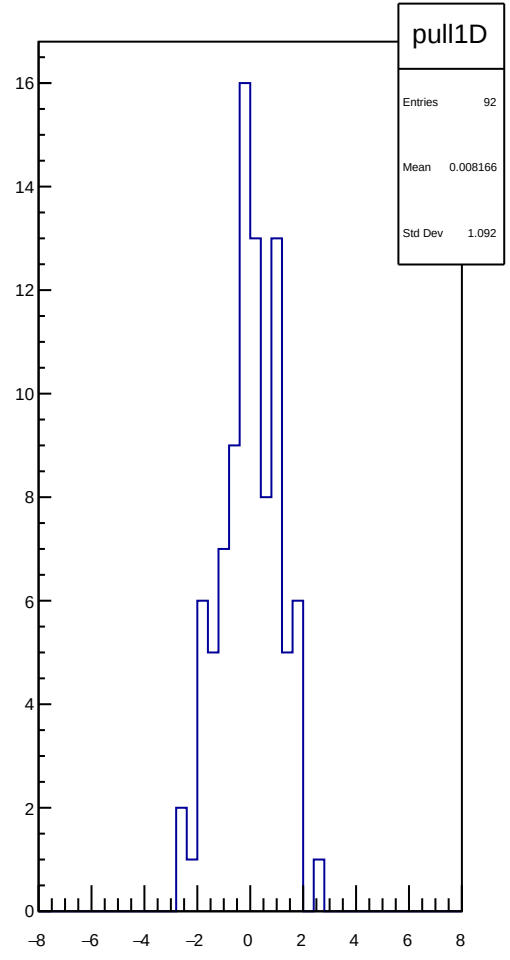

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.116e+06 / 91
p0 5.693e−11 ± 7.067e−14
1
0.8
0.6
0.4
0.2
0

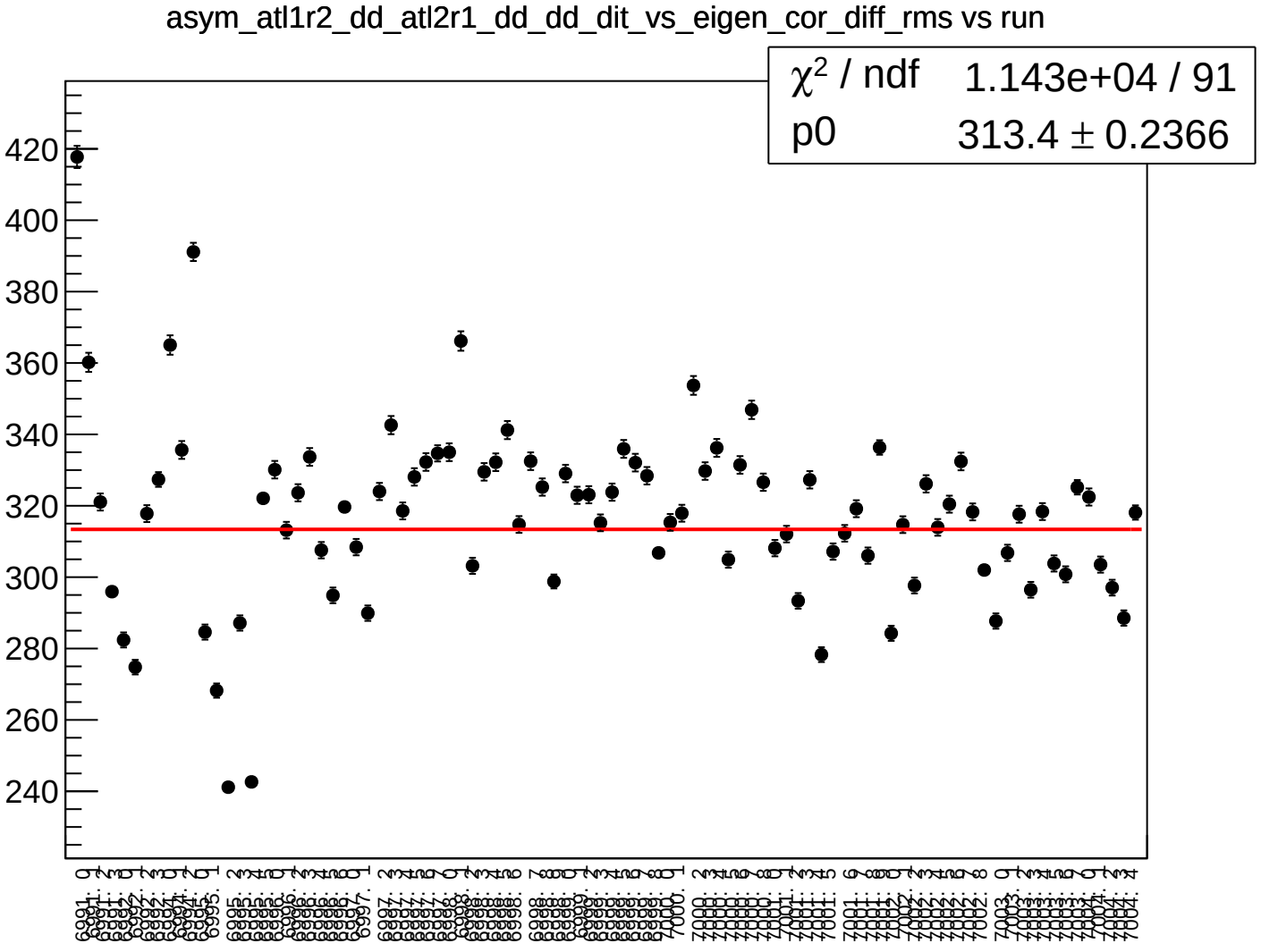

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0

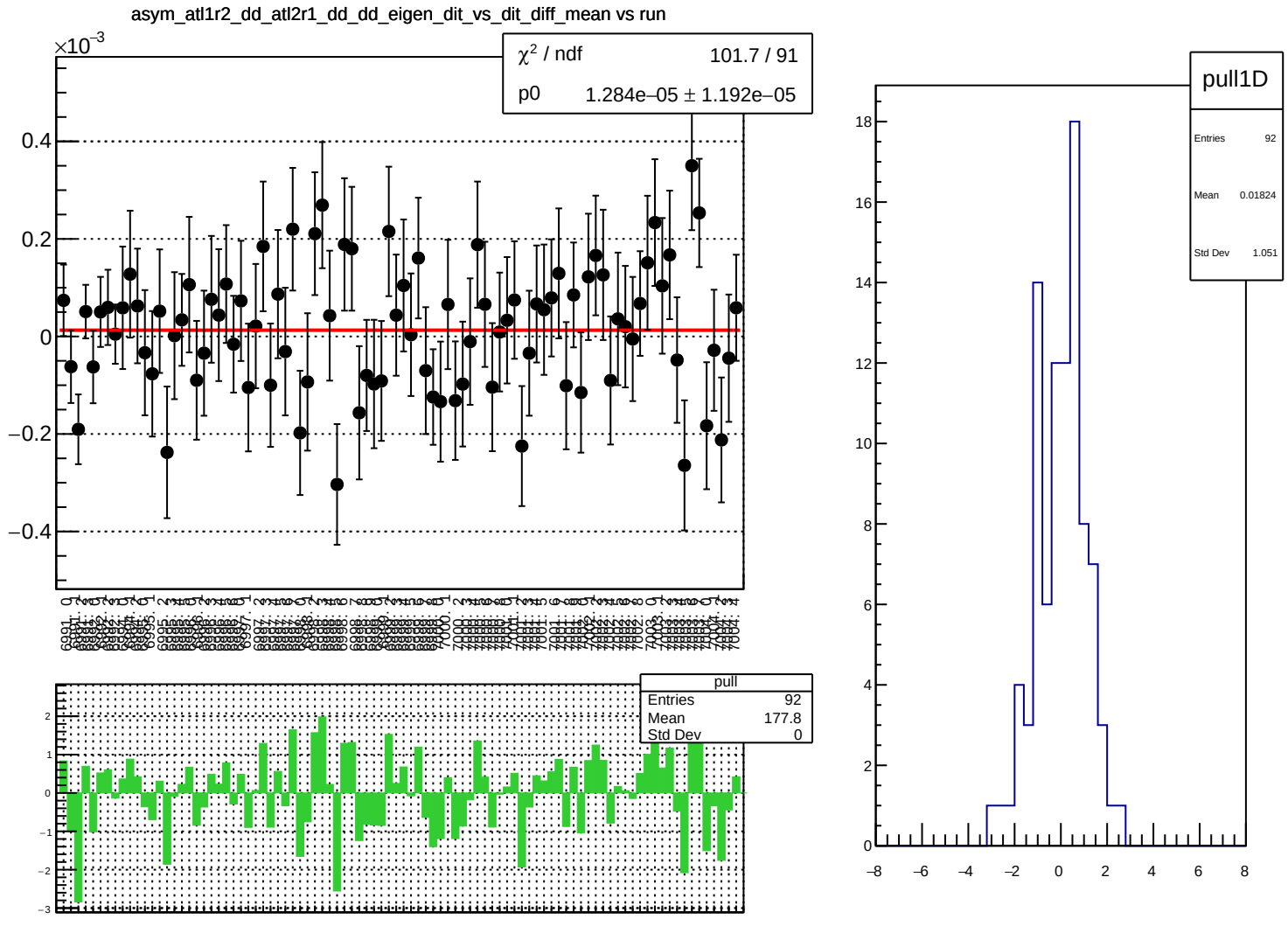

pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

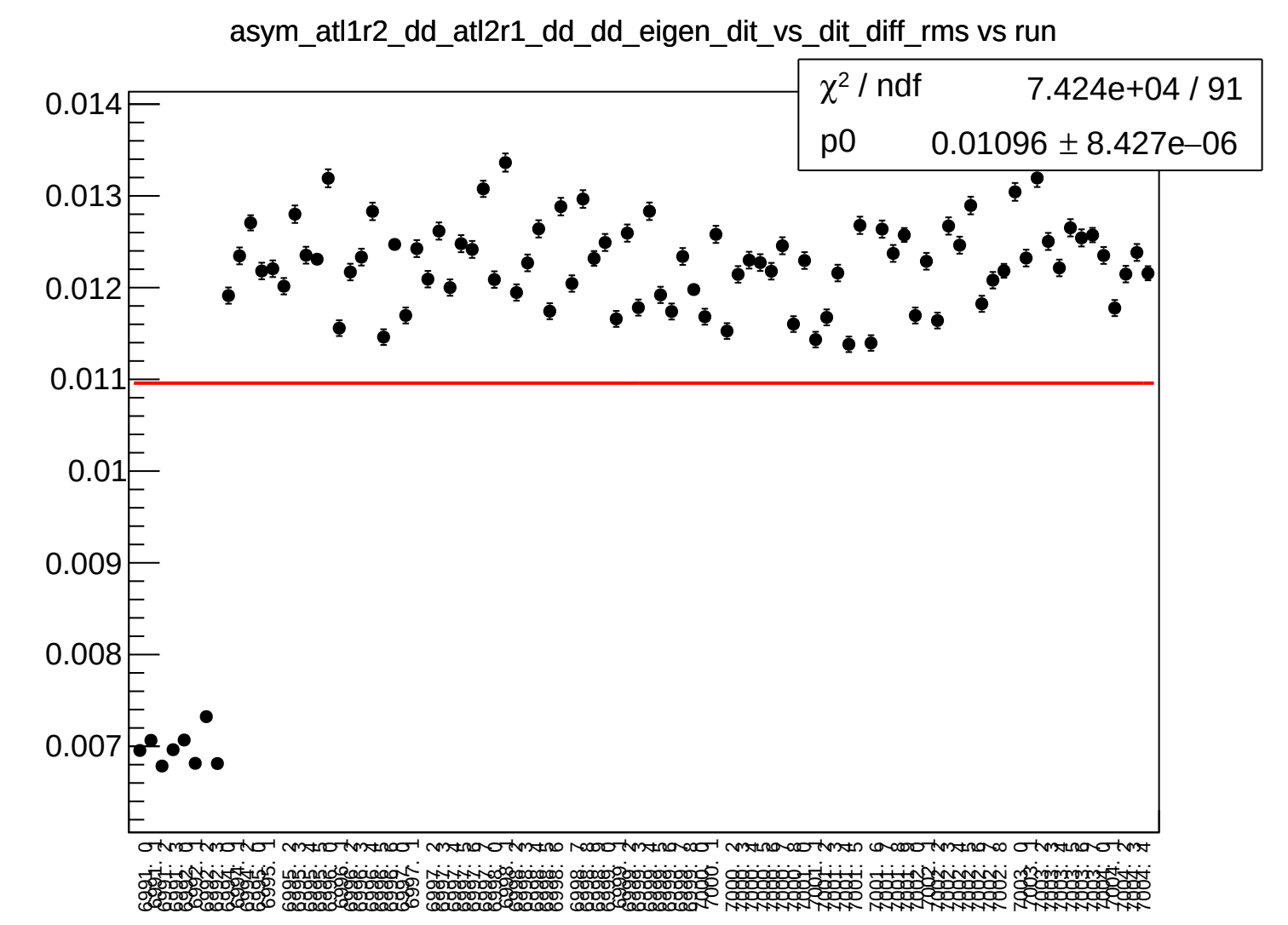

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

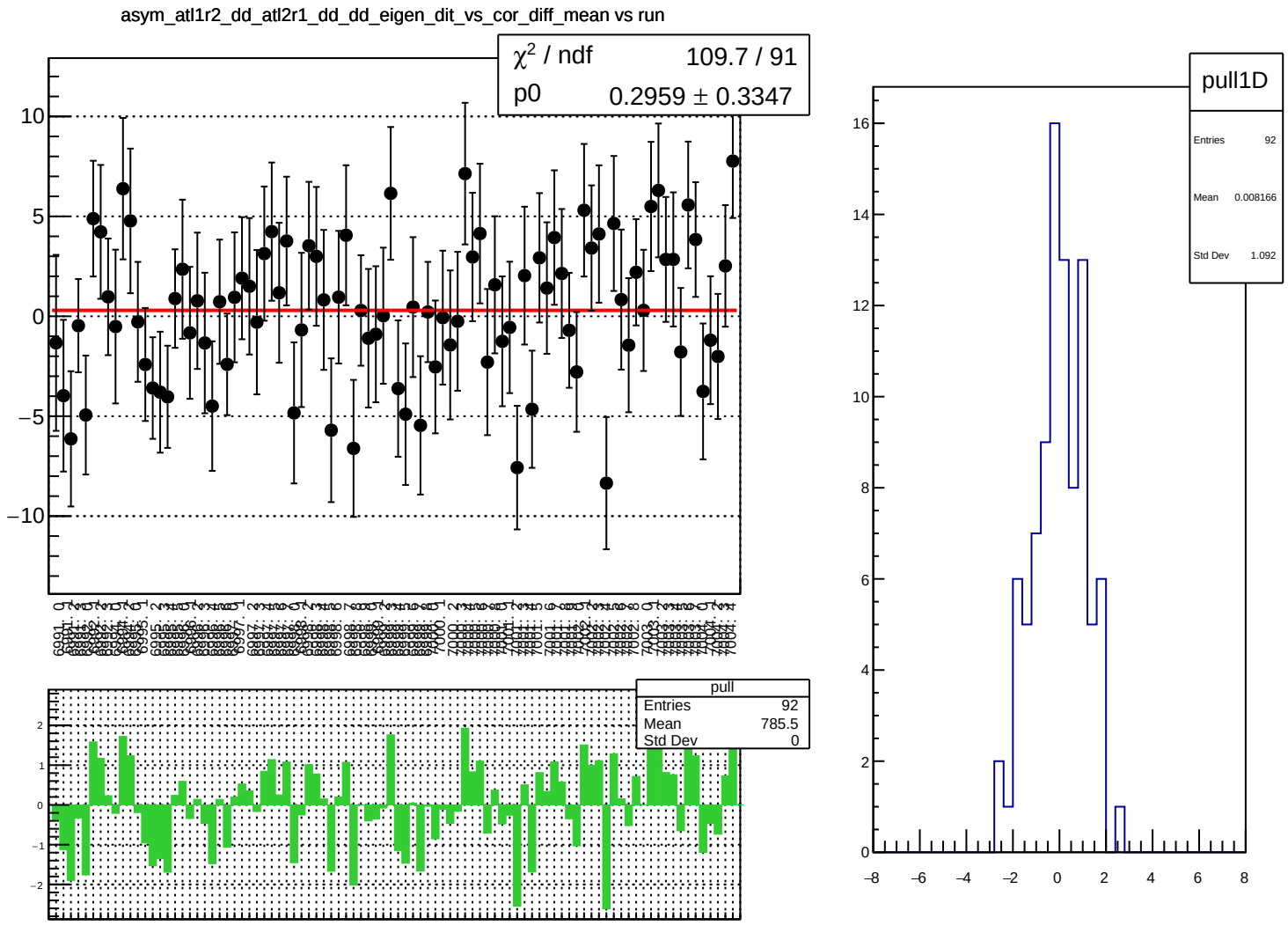

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0

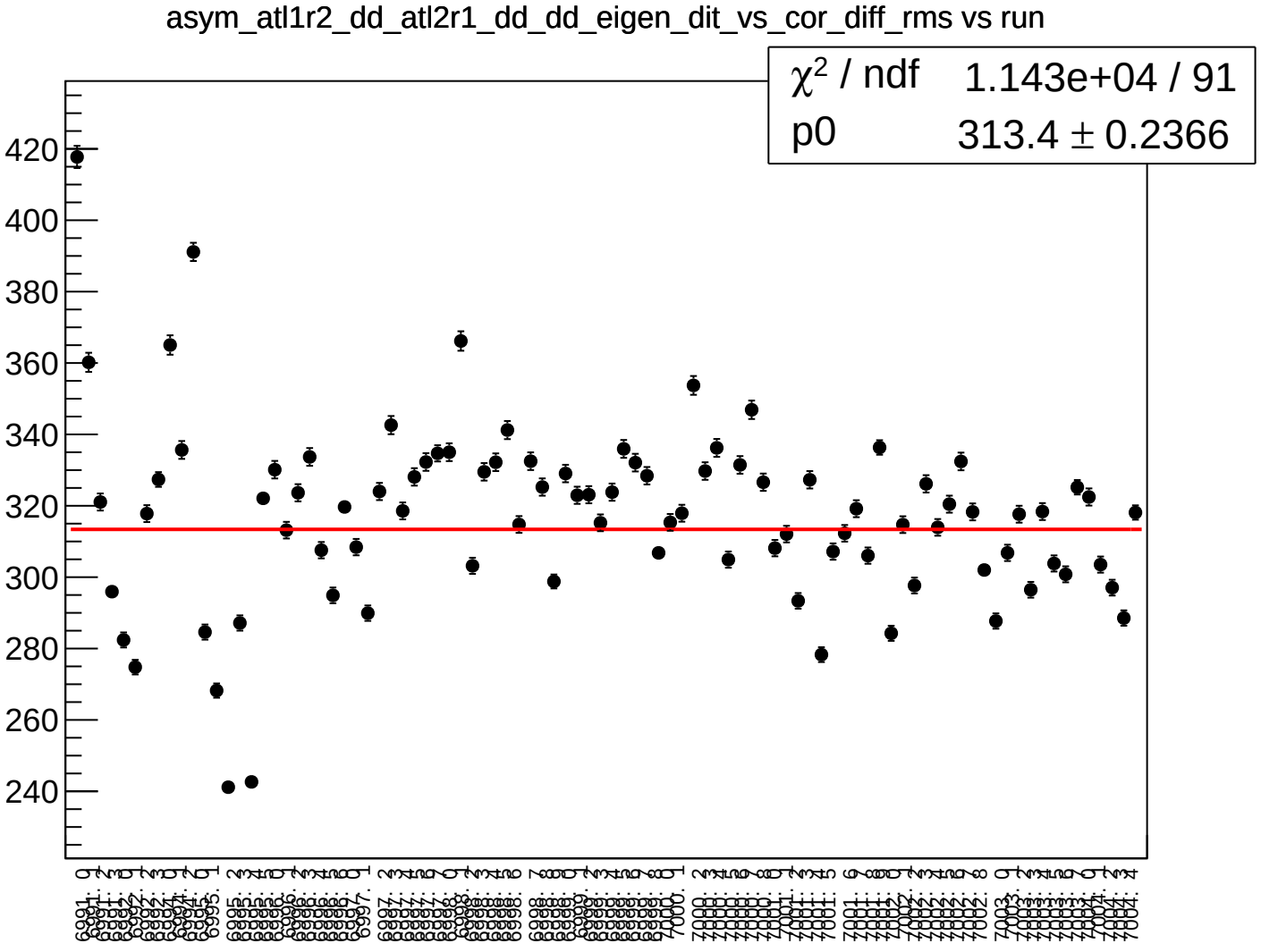

pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

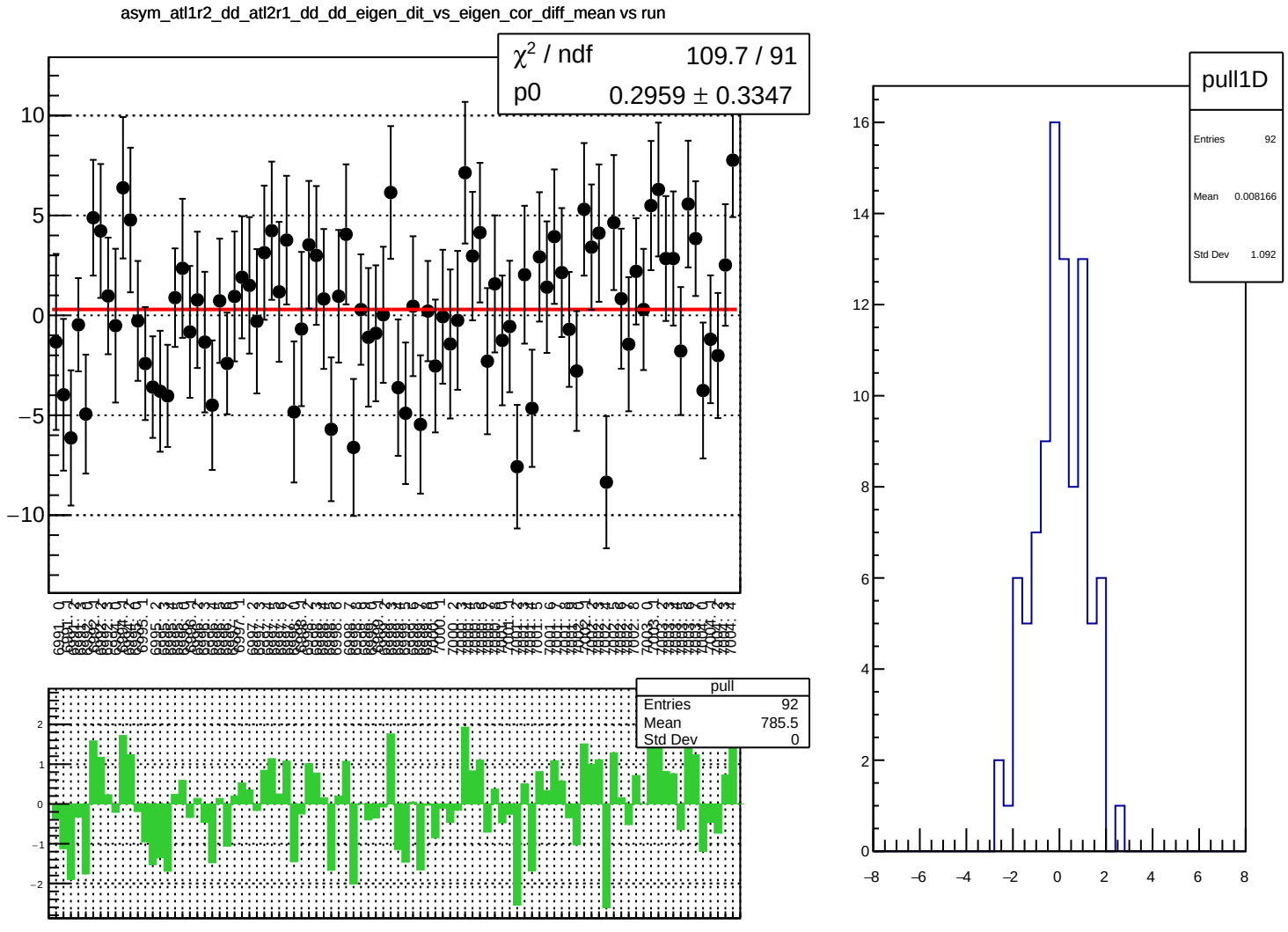

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

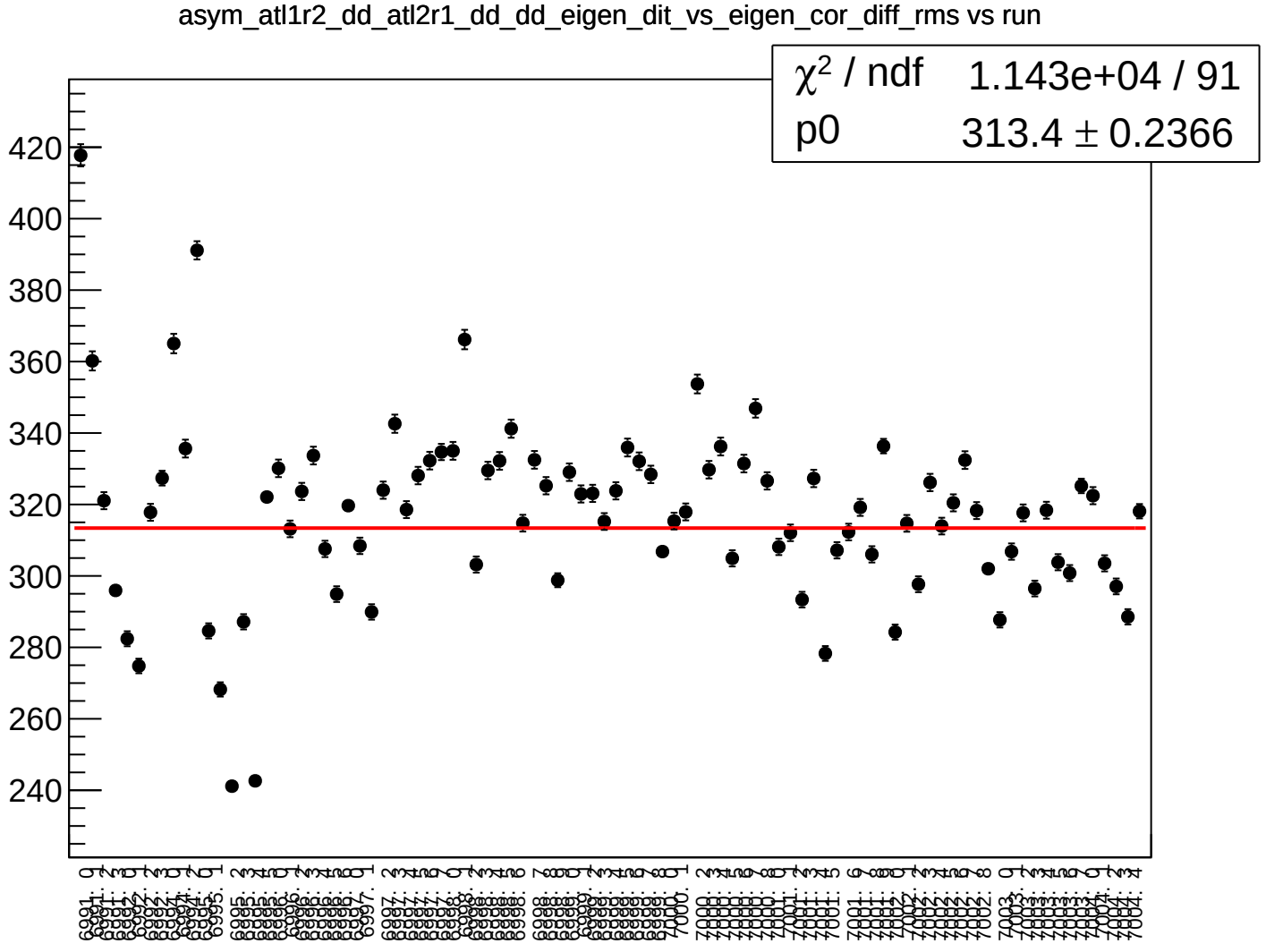

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 91
p0 1.284e−05 ± 1.192e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 177.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01824
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

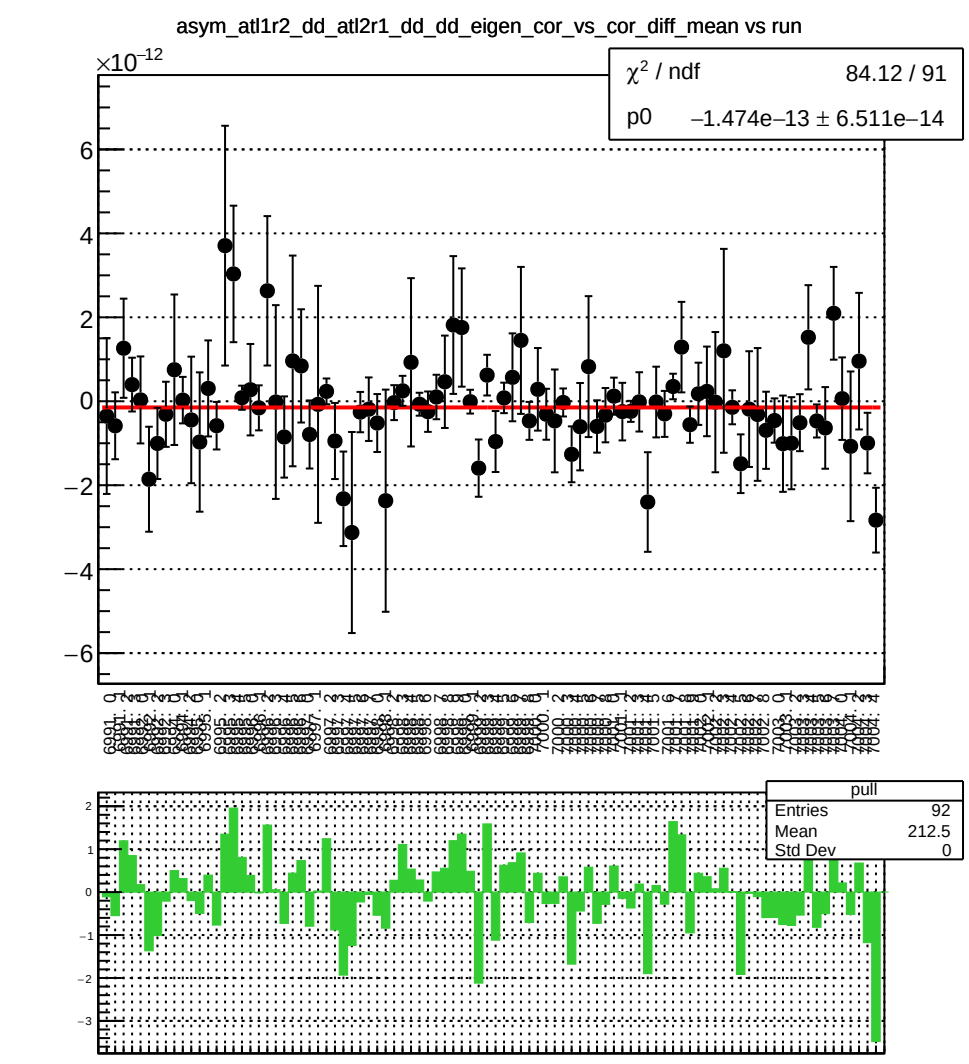

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.424e+04 / 91
p0 0.01096 ± 8.427e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

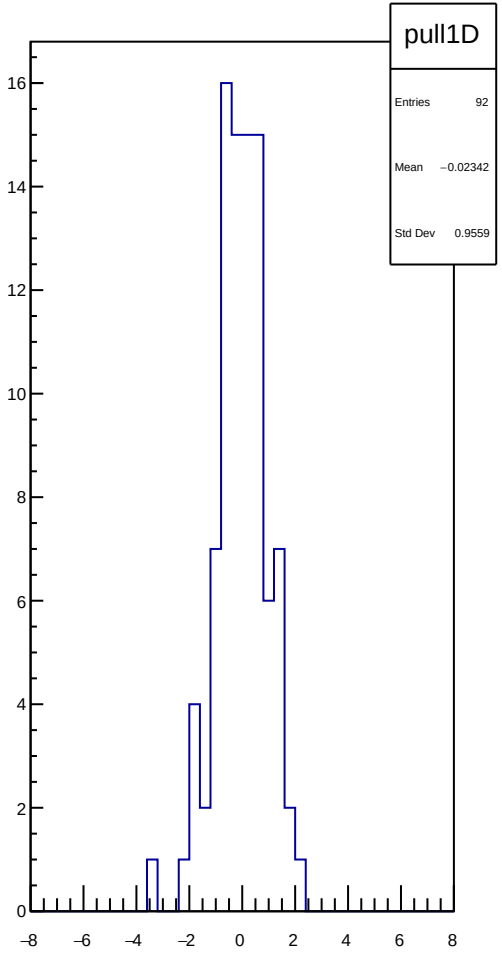

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0
pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

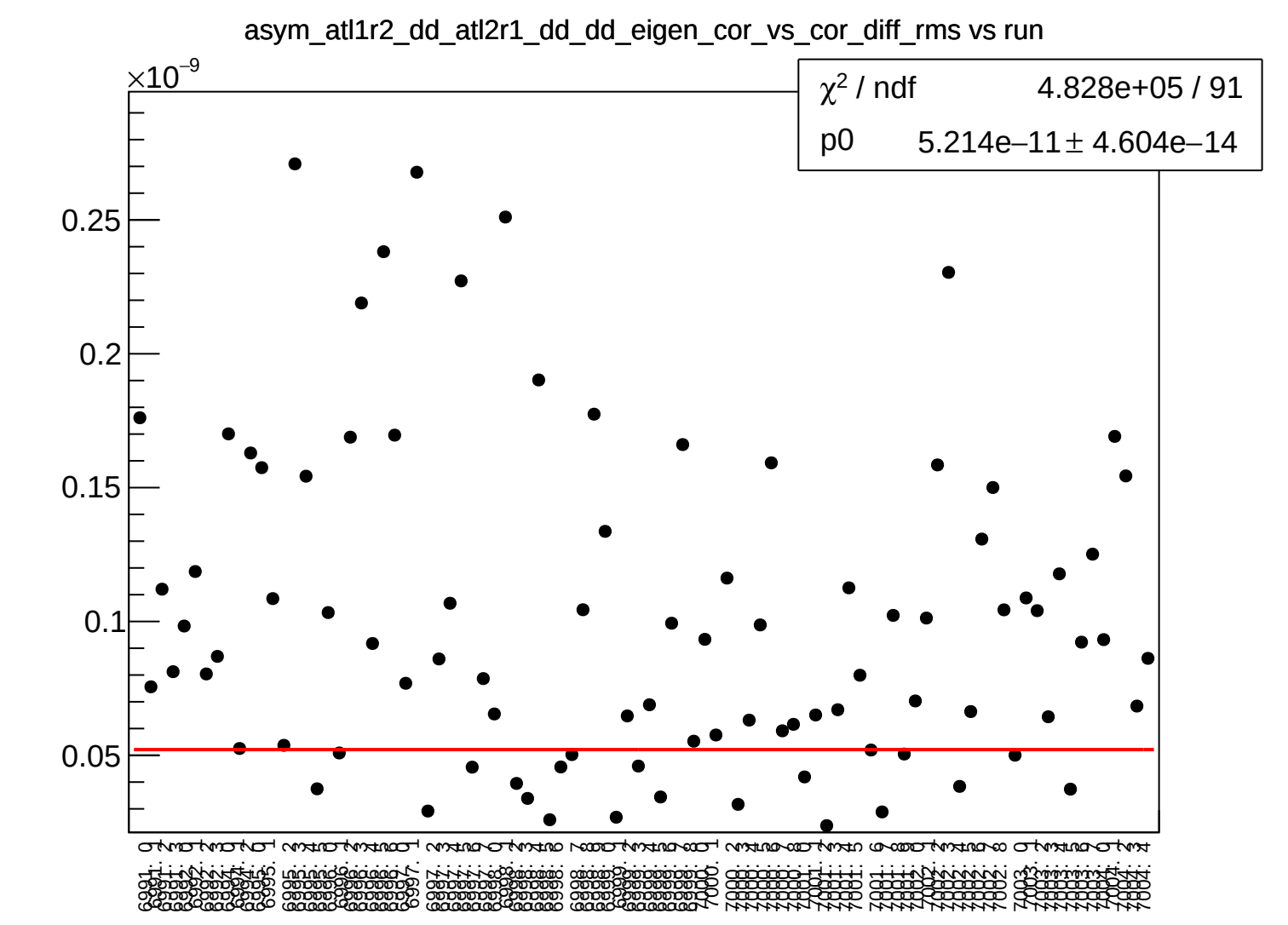

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

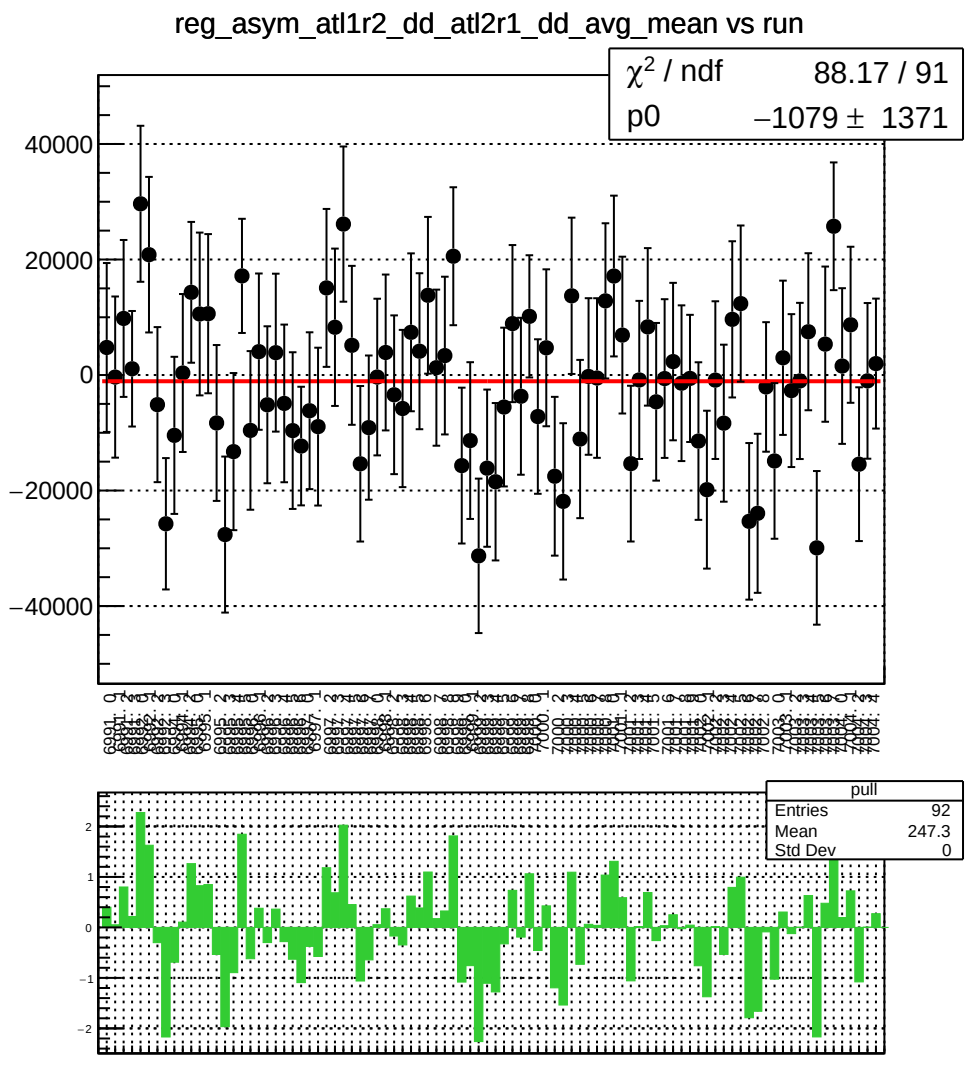

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 0.2959 ± 0.3347
pull
Entries 92
Mean 785.5
Std Dev 0
pull1D
Entries 92
Mean 0.008166
Std Dev 1.092

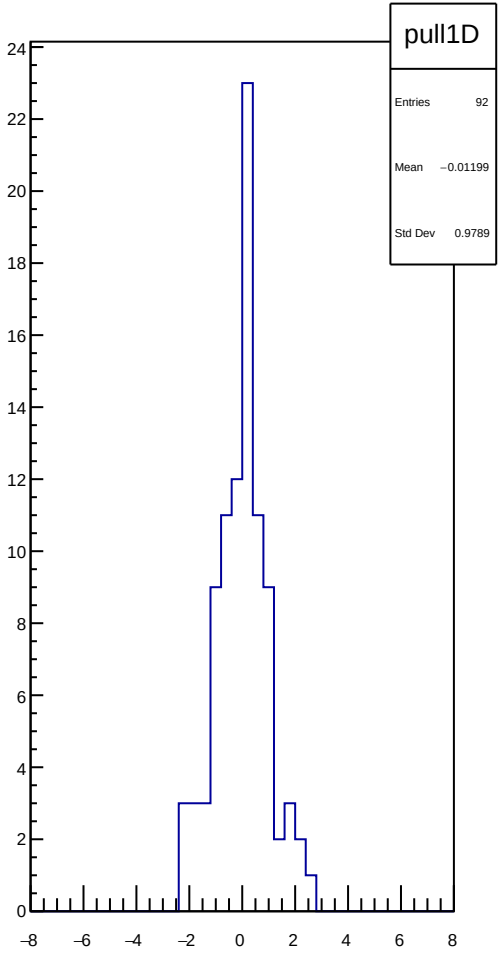

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.143e+04 / 91
p0 313.4 ± 0.2366
420
400
380
360
340
320
300
280
260
240

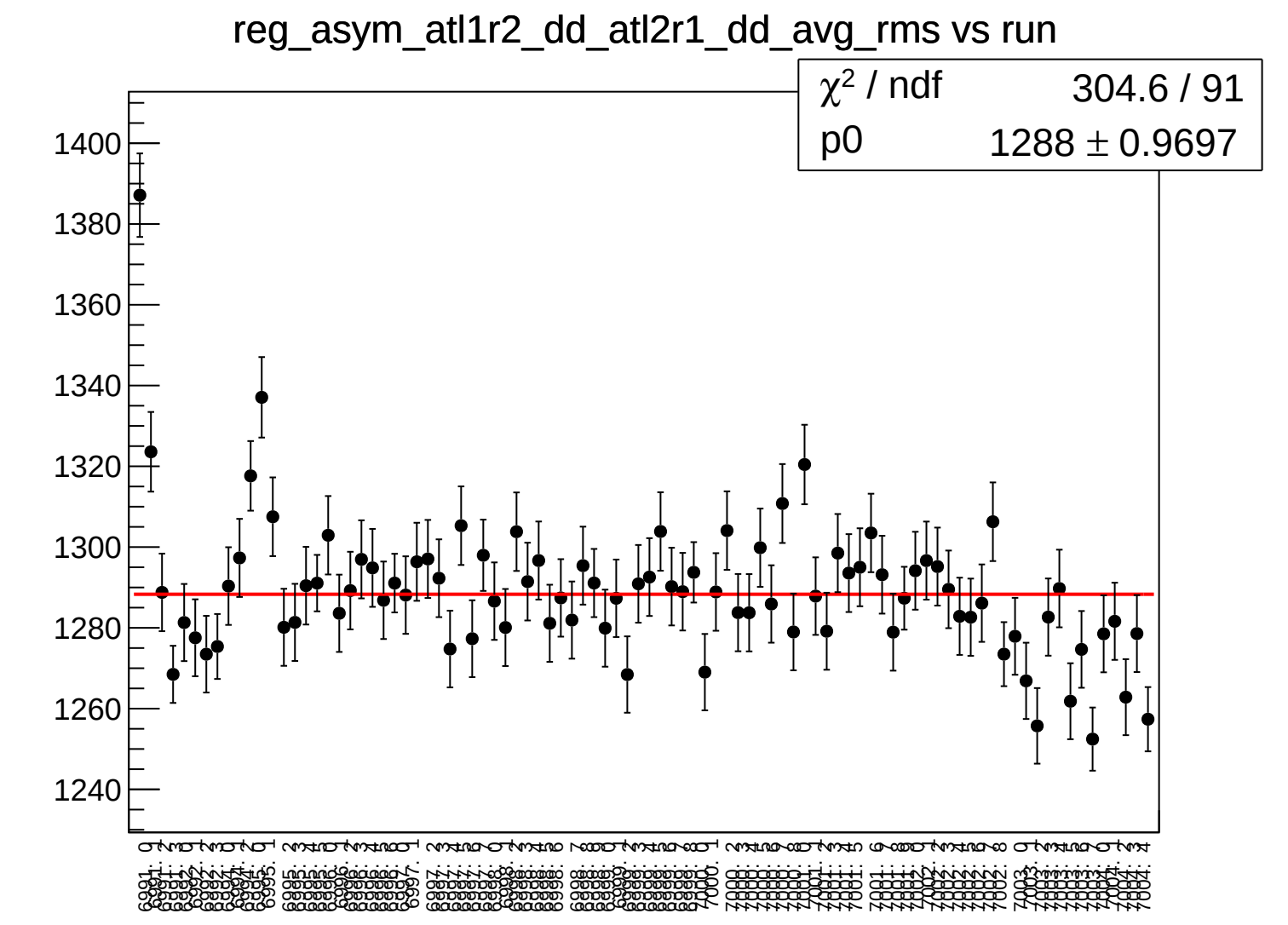

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 84.12 / 91
p0 −1.474e−13 ± 6.511e−14
pull
Entries 92
Mean 212.5
Std Dev 0

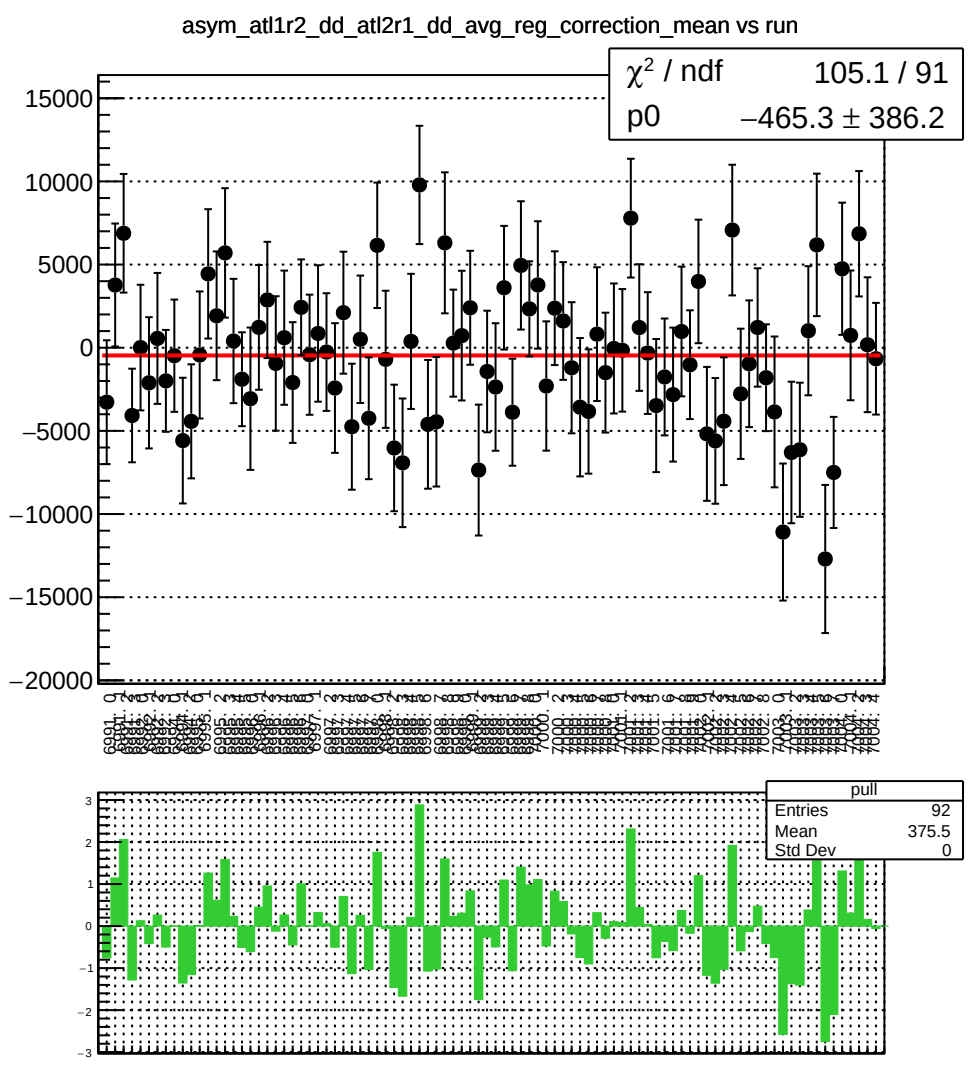

pull1D
Entries 92
Mean −0.02342
Std Dev 0.9559

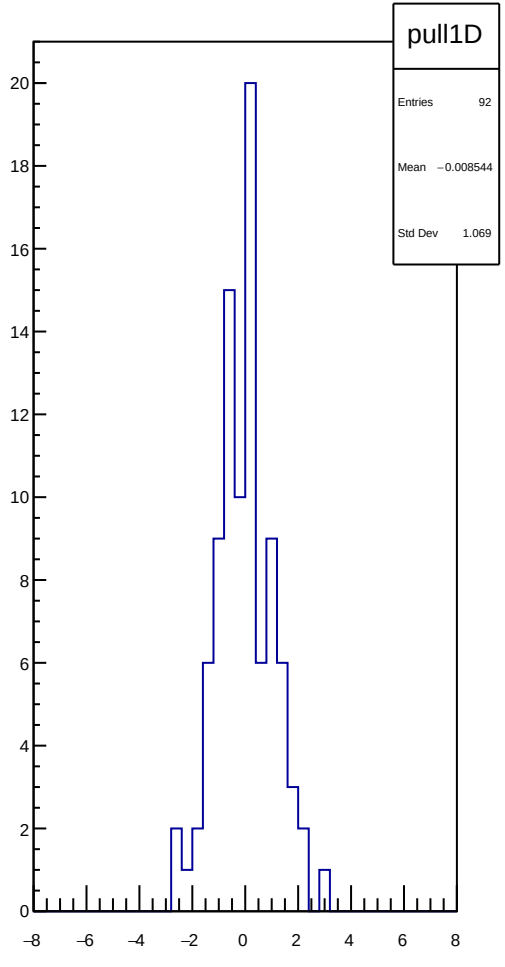

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.828e+05 / 91
p0 5.214e−11 ± 4.604e−14
0.25
0.2
0.15
0.1
0.05

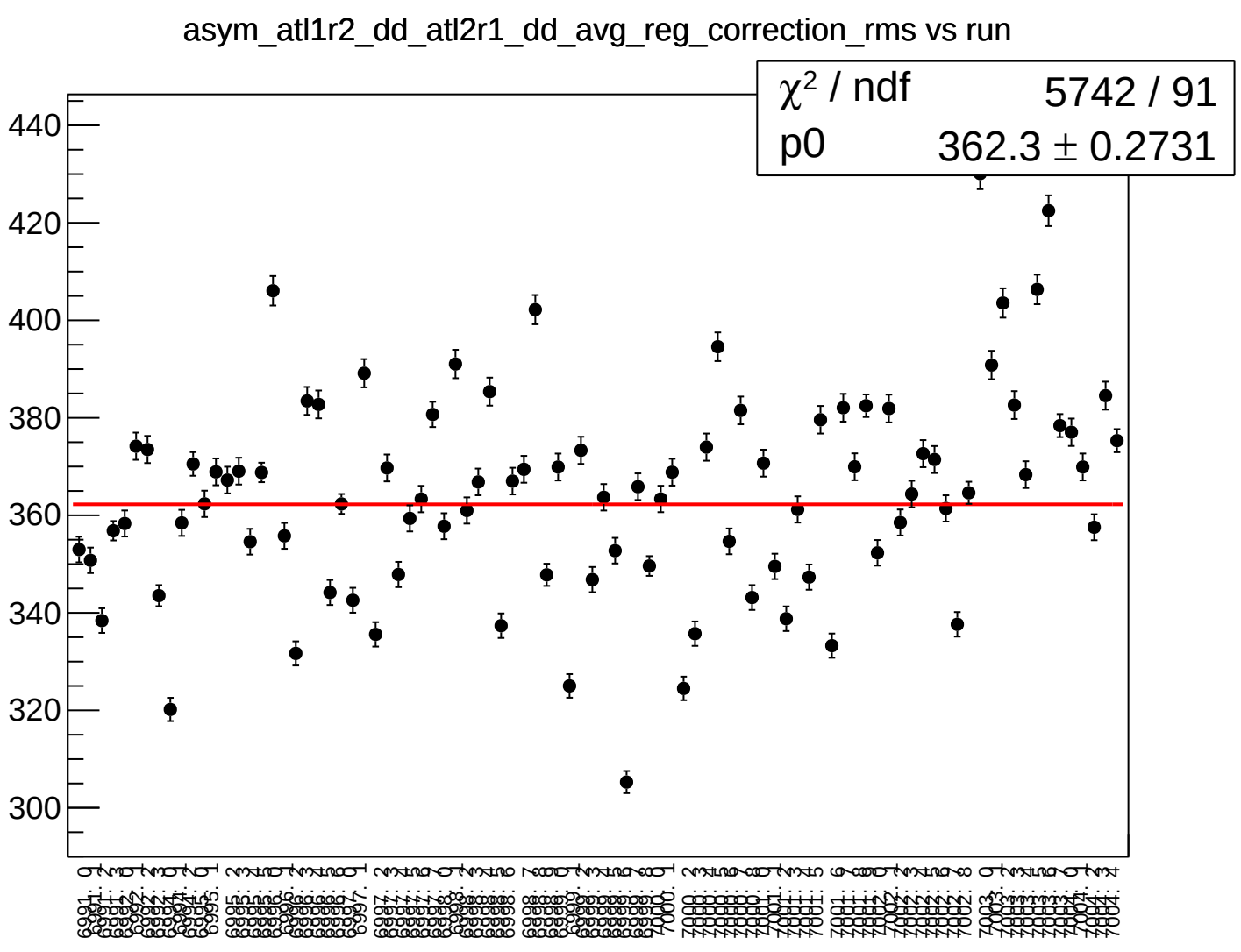

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.17 / 91
p0 −1079 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 247.3
Std Dev 0
2
1
0
−1
−2

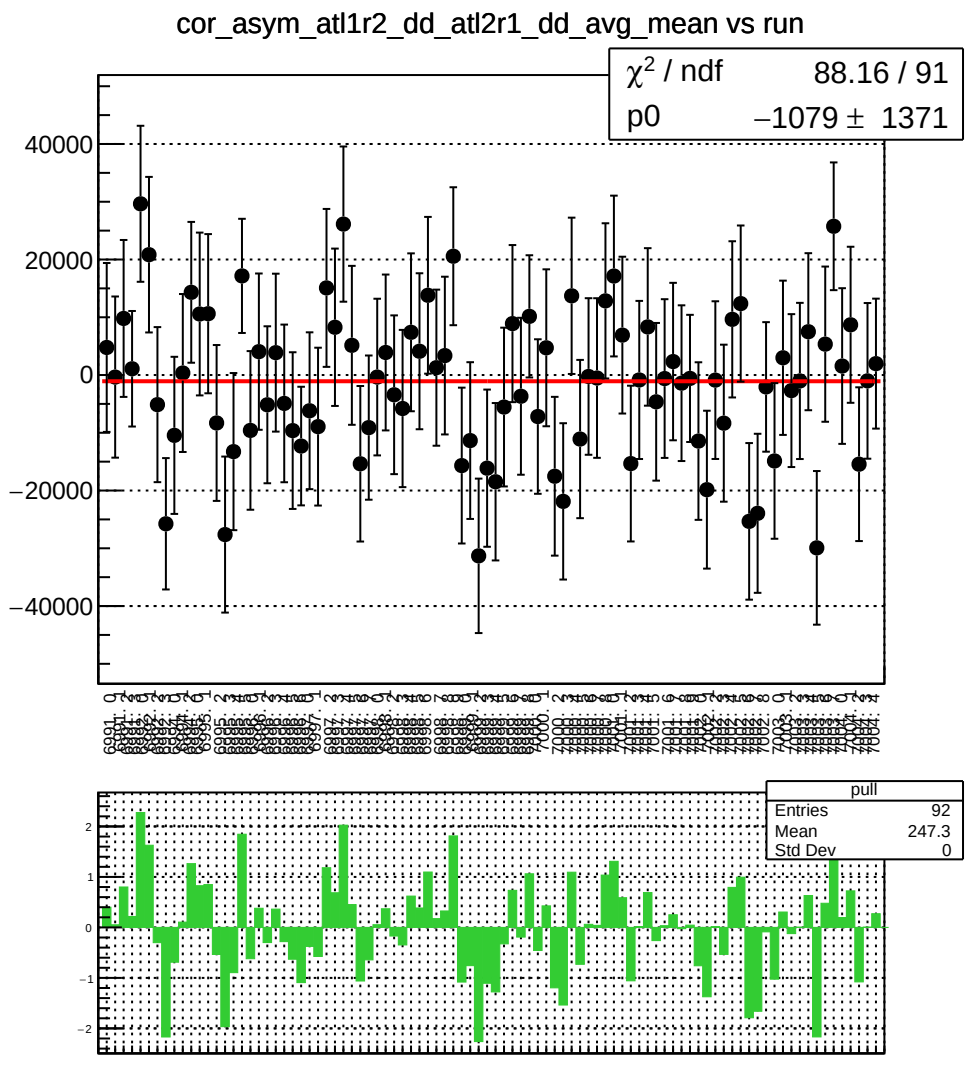

pull1D
Entries 92
Mean −0.01199
Std Dev 0.9789
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

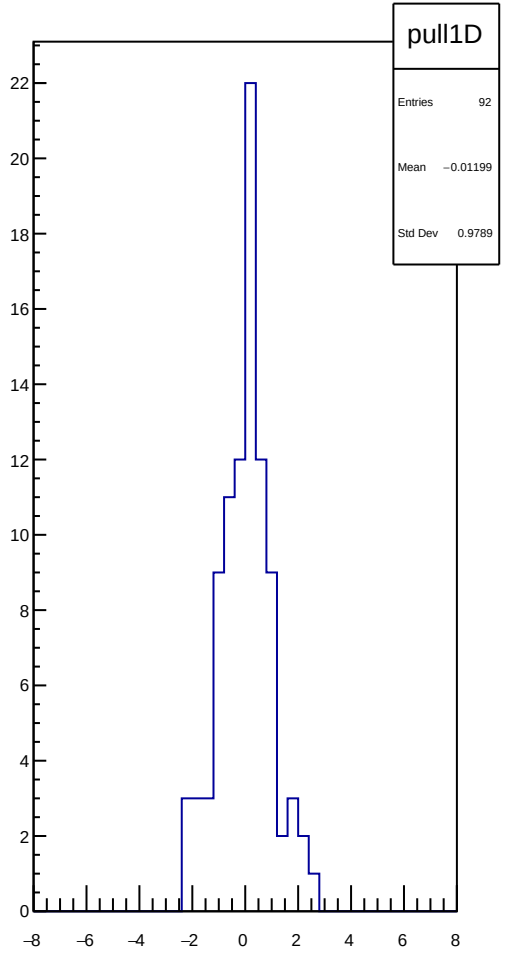

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 304.6 / 91
p0 1288 ± 0.9697
1400
1380
1360
1340
1320
1300
1280
1260
1240

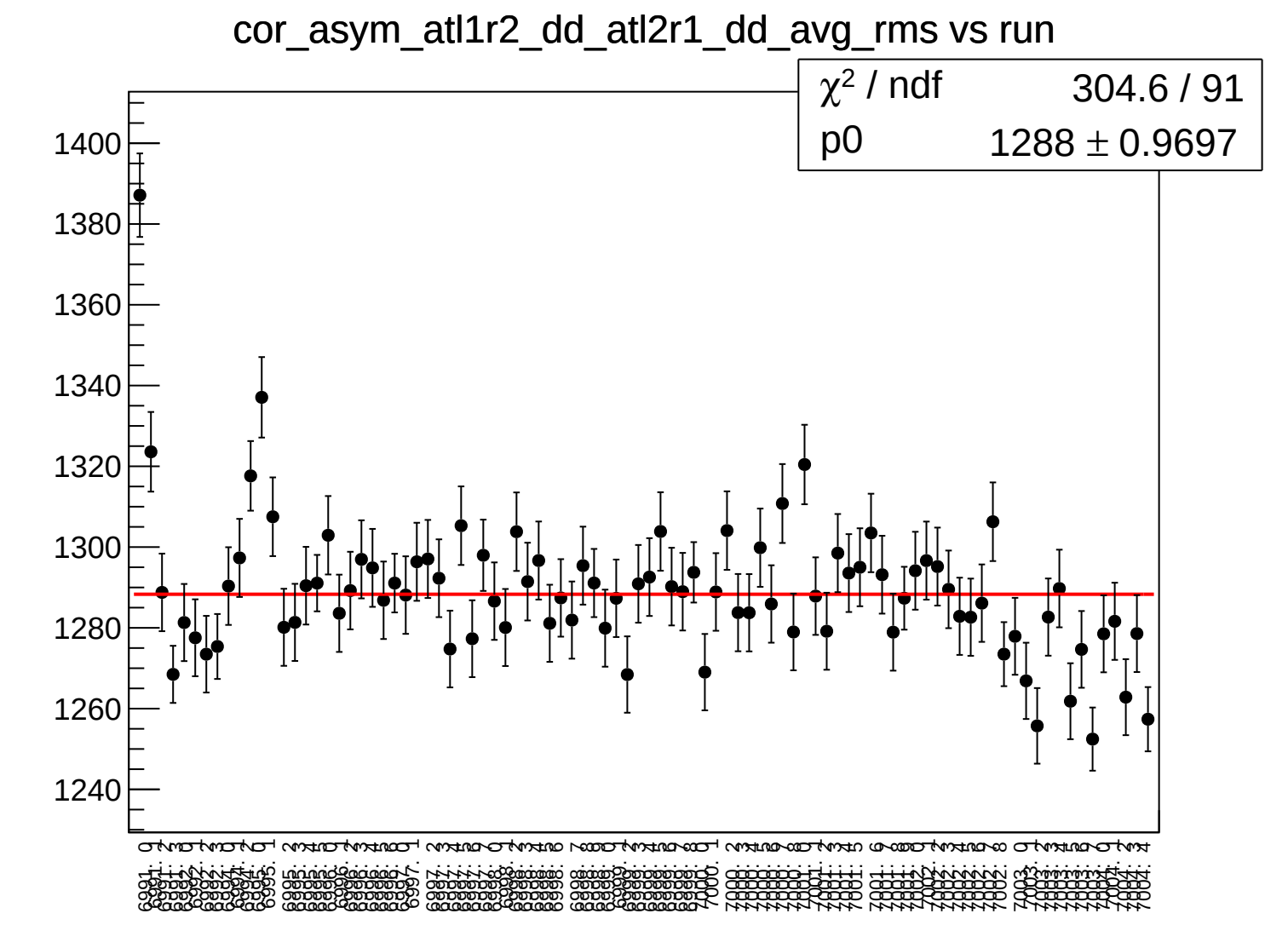

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 105.1 / 91
p0 −465.3 ± 386.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 375.5
Std Dev 0
3
2
1
0
−1
−2
−3

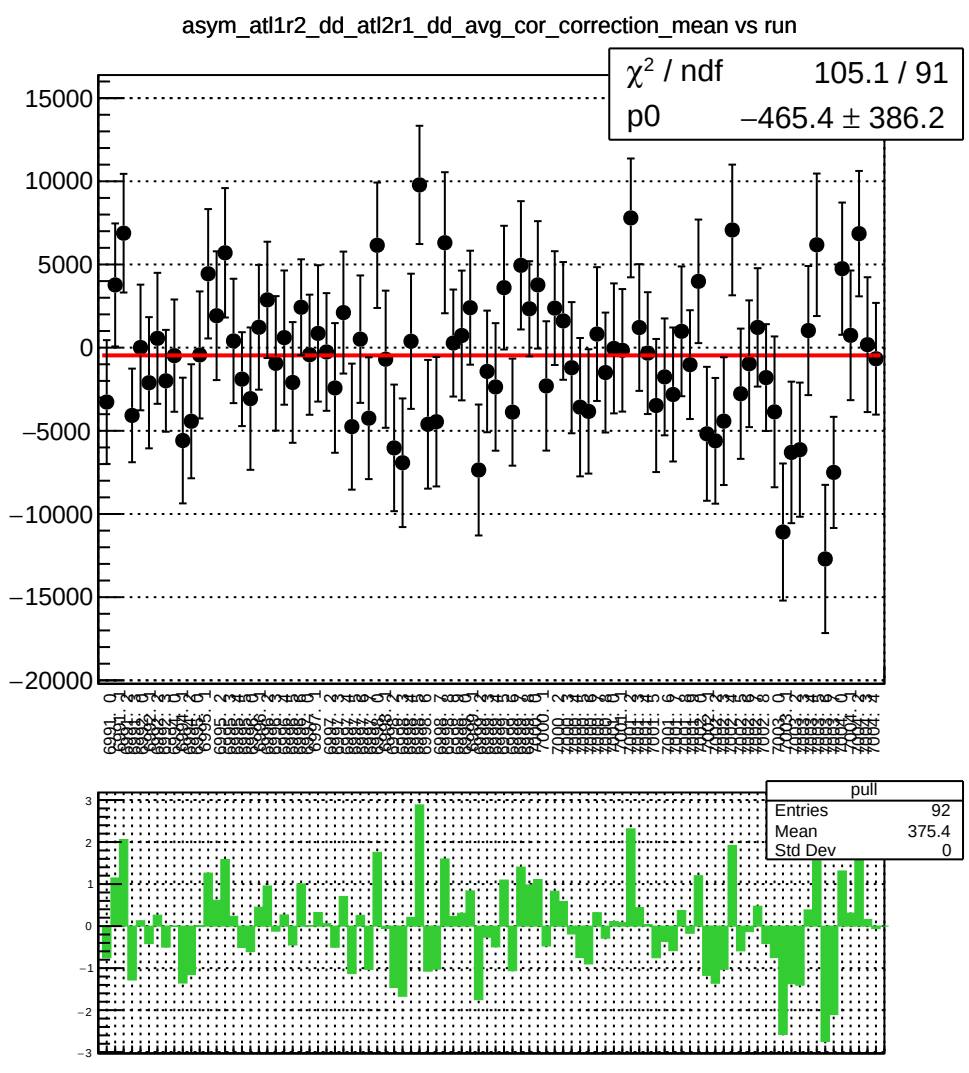

pull1D
Entries 92
Mean −0.008544
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

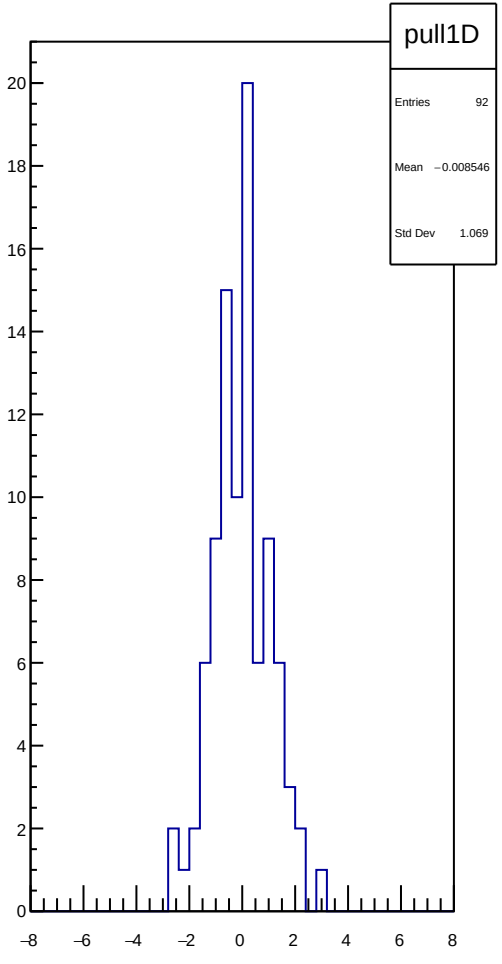

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 5742 / 91
p0 362.3 ± 0.2731
440
420
400
380
360
340
320
300

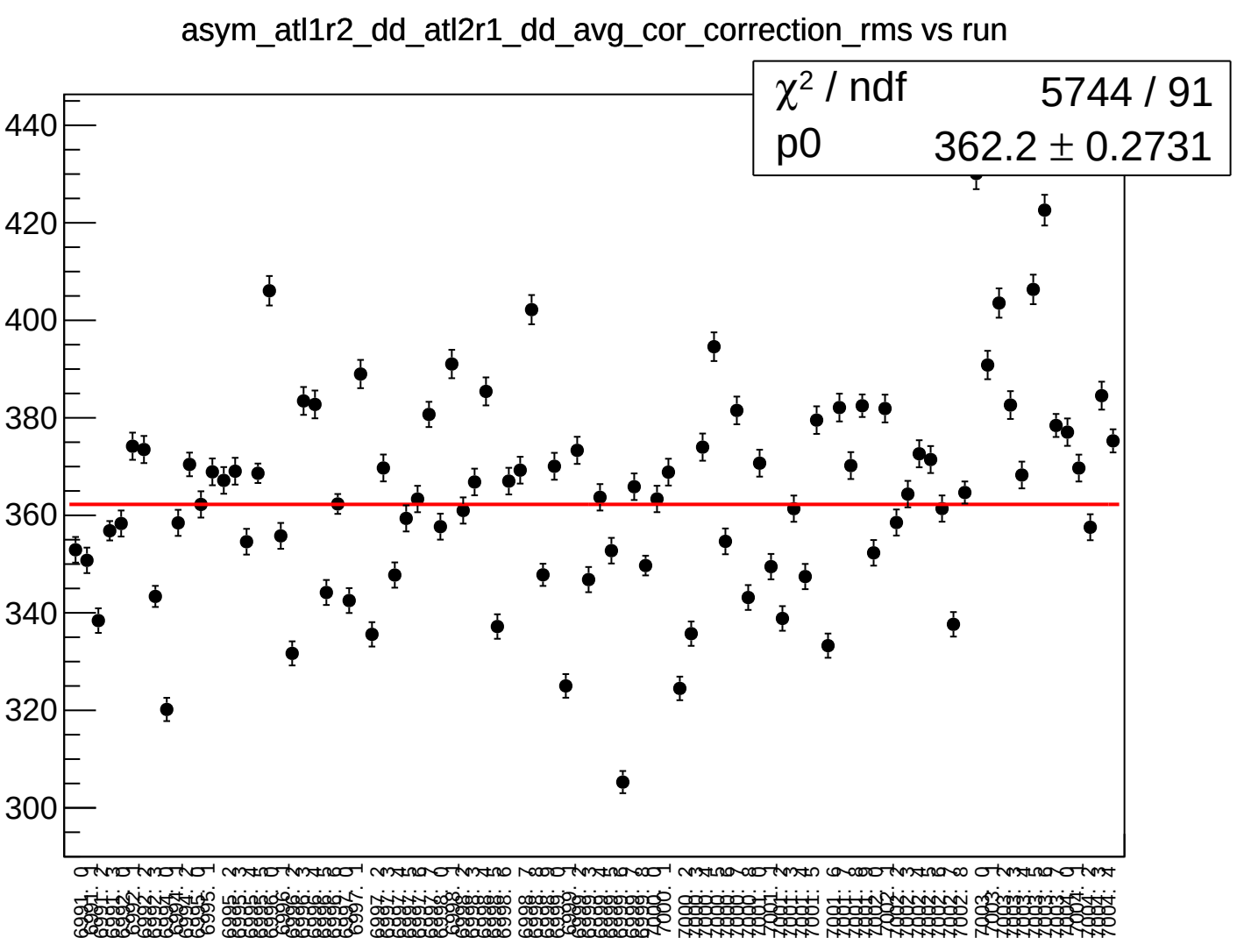

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.16 / 91
p0 −1079 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 247.3
Std Dev 0
2
1
0
−1
−2

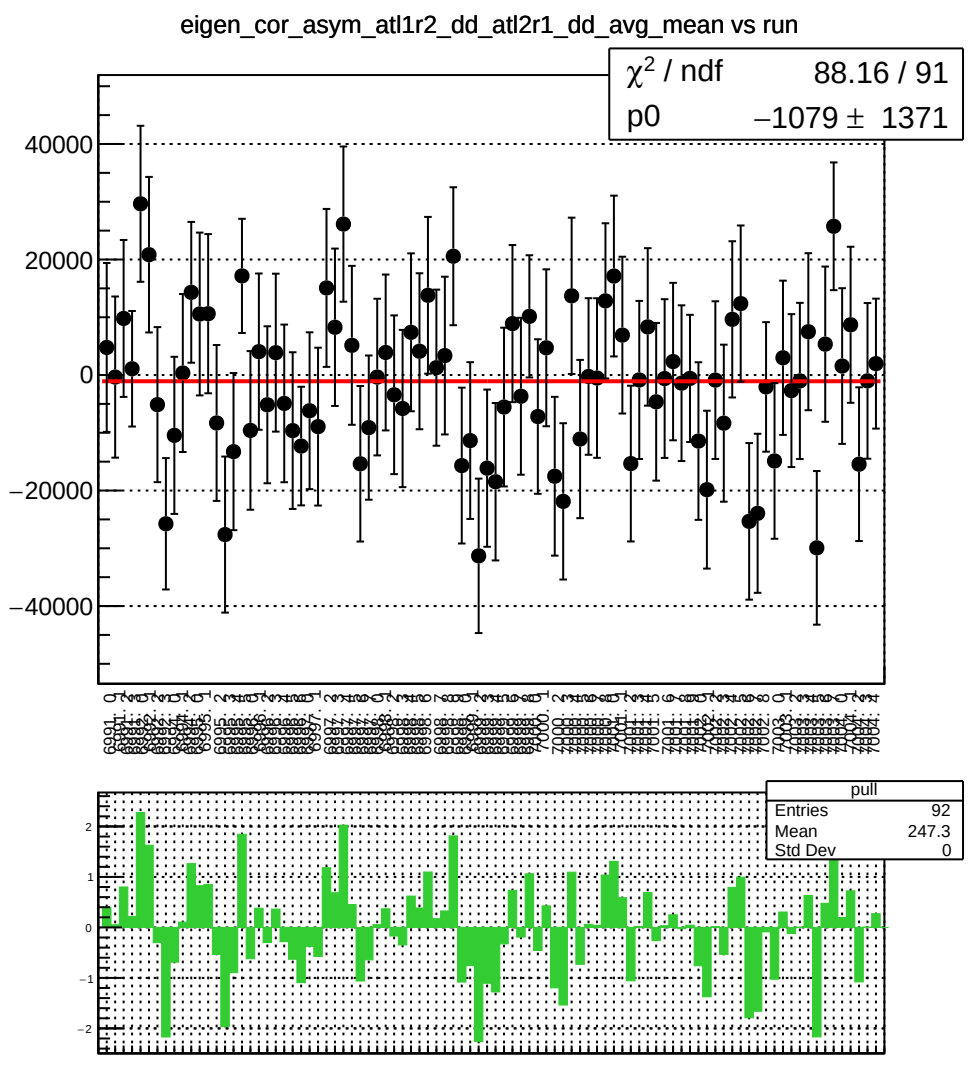

pull1D
Entries 92
Mean −0.01199
Std Dev 0.9789
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

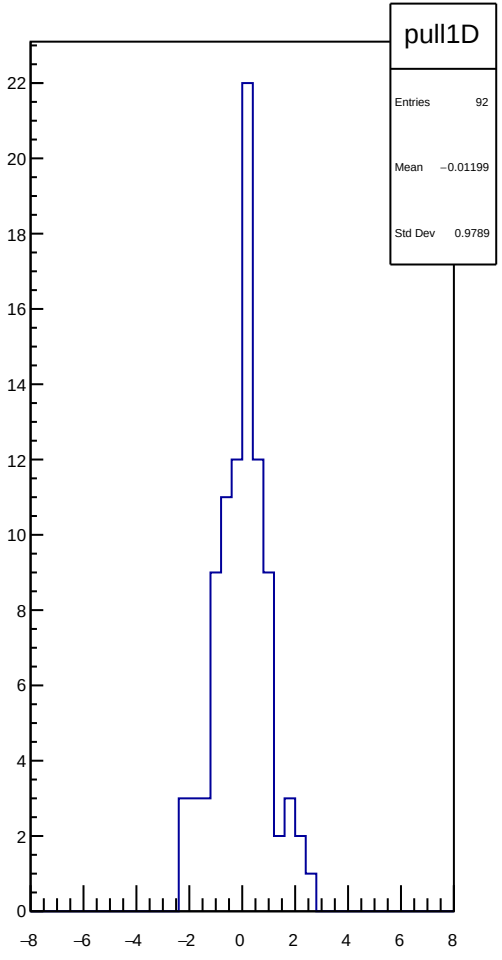

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 304.6 / 91
p0 1288 ± 0.9697
1400
1380
1360
1340
1320
1300
1280
1260
1240

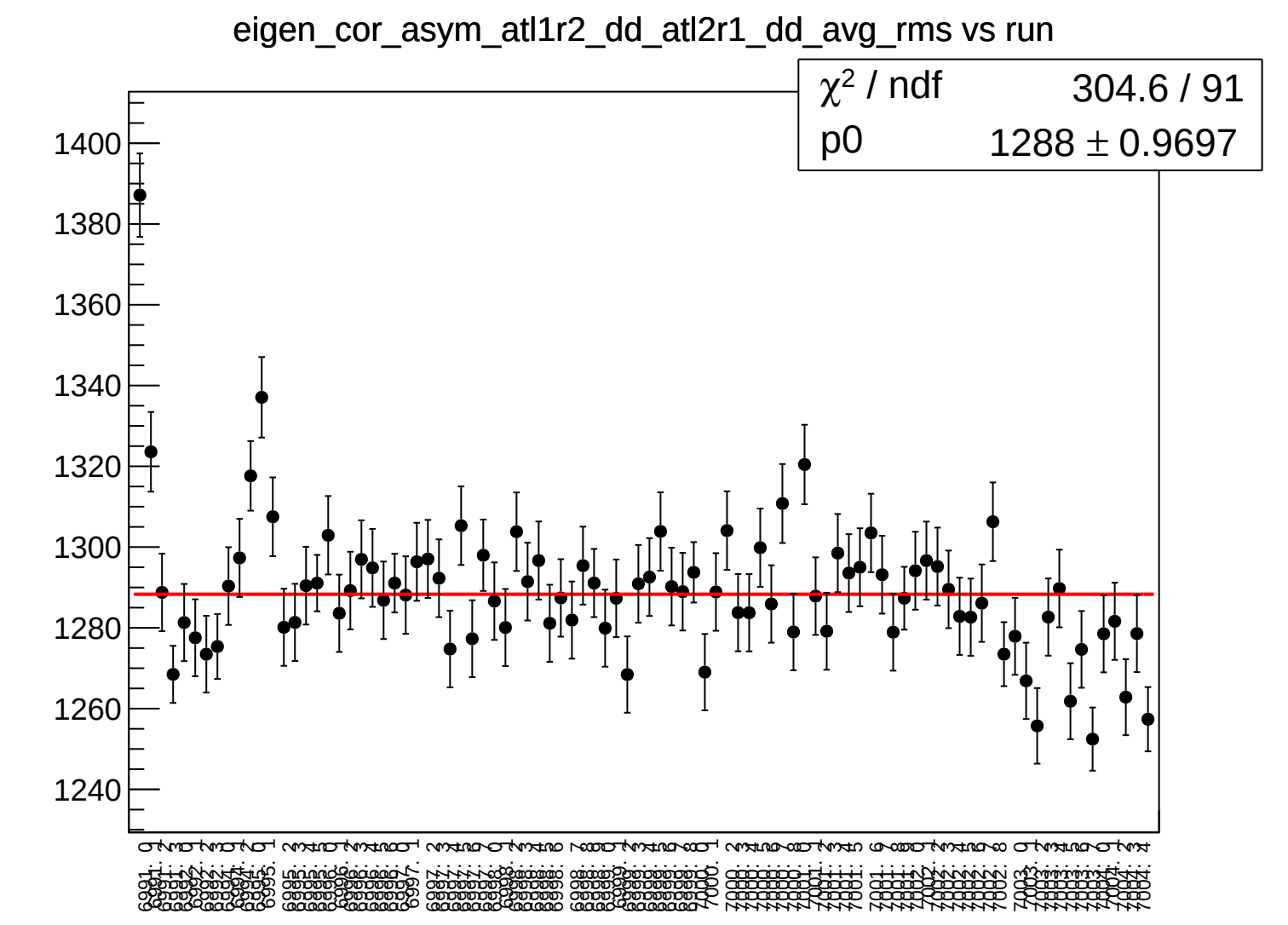

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 105.1 / 91
p0 −465.4 ± 386.2
pull
Entries 92
Mean 375.4
Std Dev 0

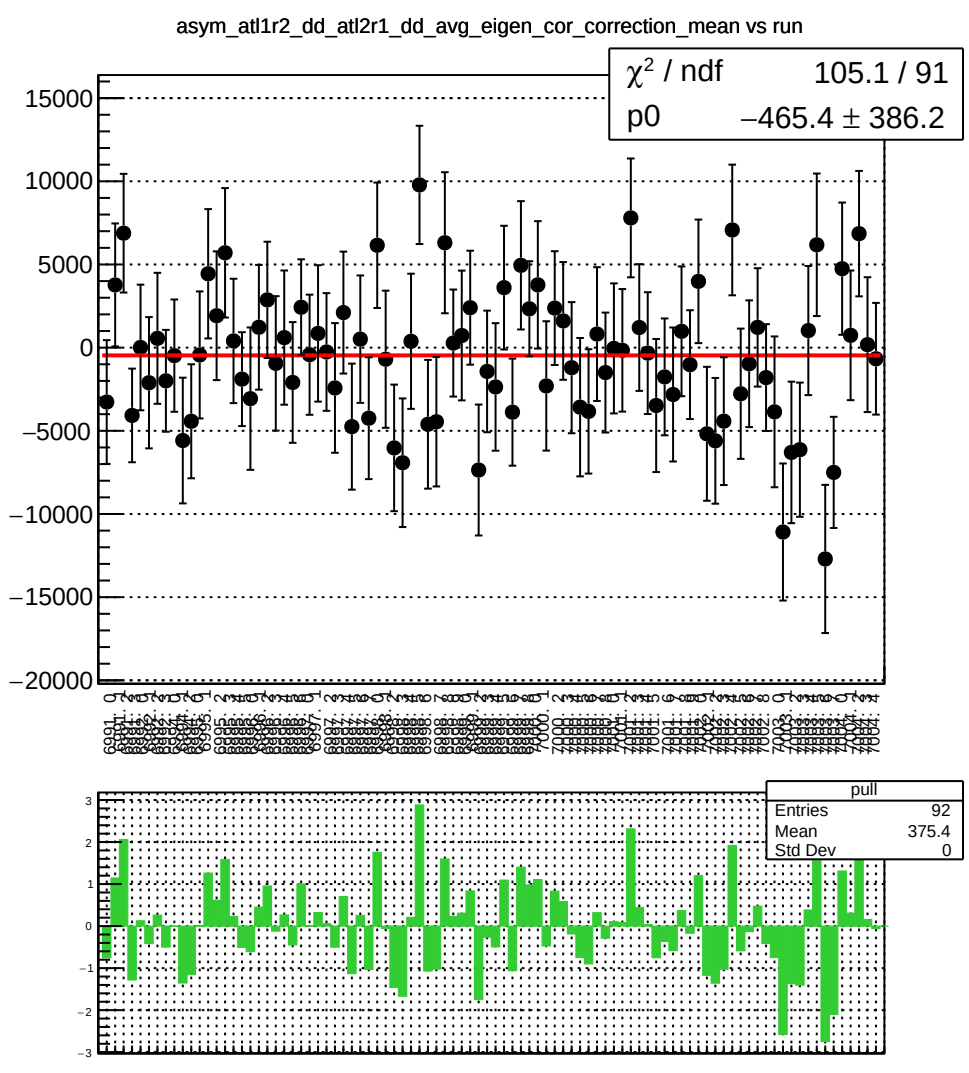

pull1D
Entries 92
Mean −0.008546
Std Dev 1.069

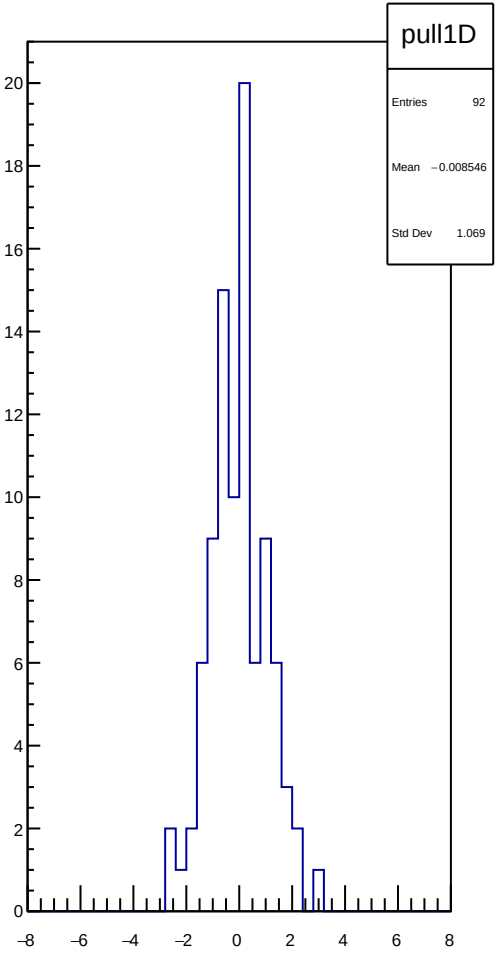

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 5744 / 91
p0 362.2 ± 0.2731
440
420
400
380
360
340
320
300

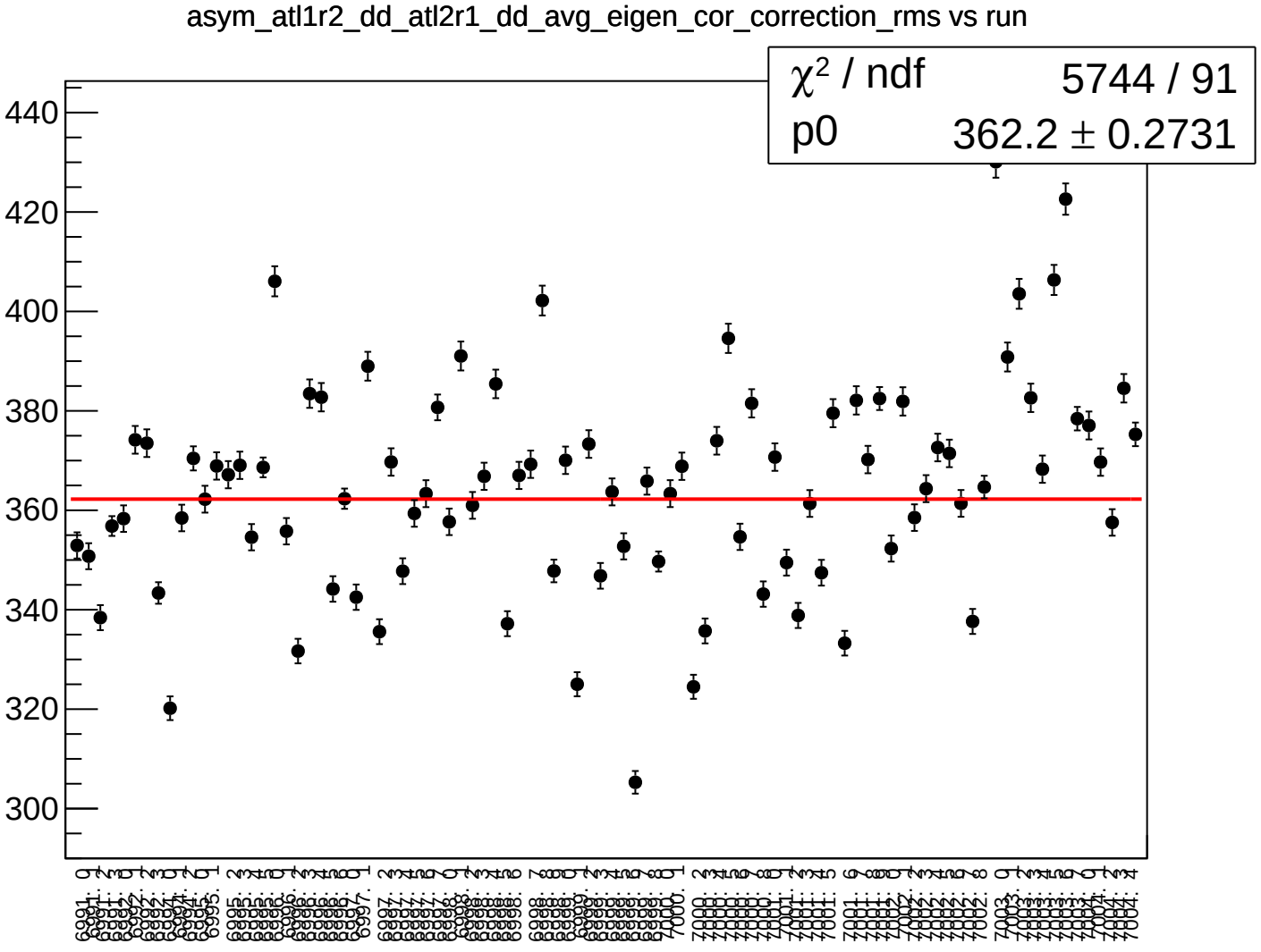

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 88.16 / 91
p0 −1079 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 247.3
Std Dev 0
2
1
0
−1
−2

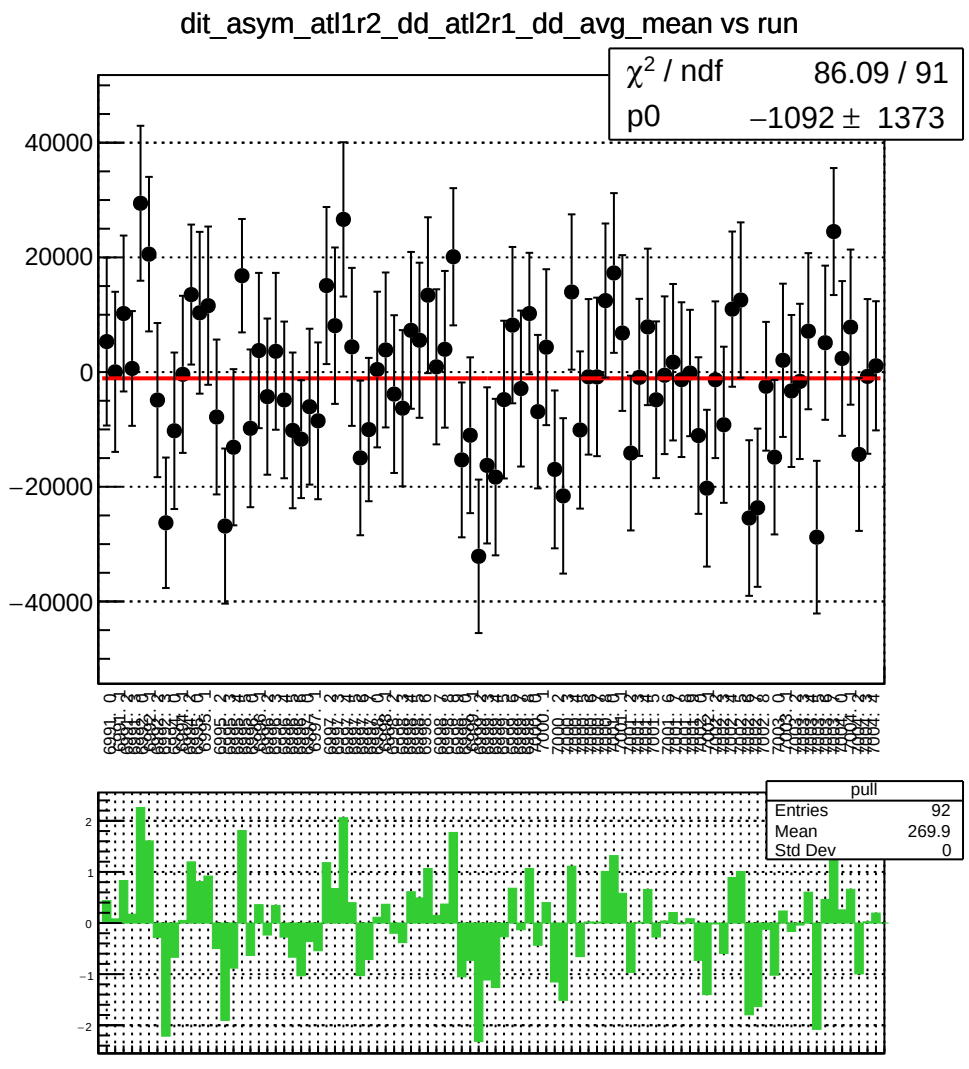

pull1D
Entries 92
Mean −0.01199
Std Dev 0.9789
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

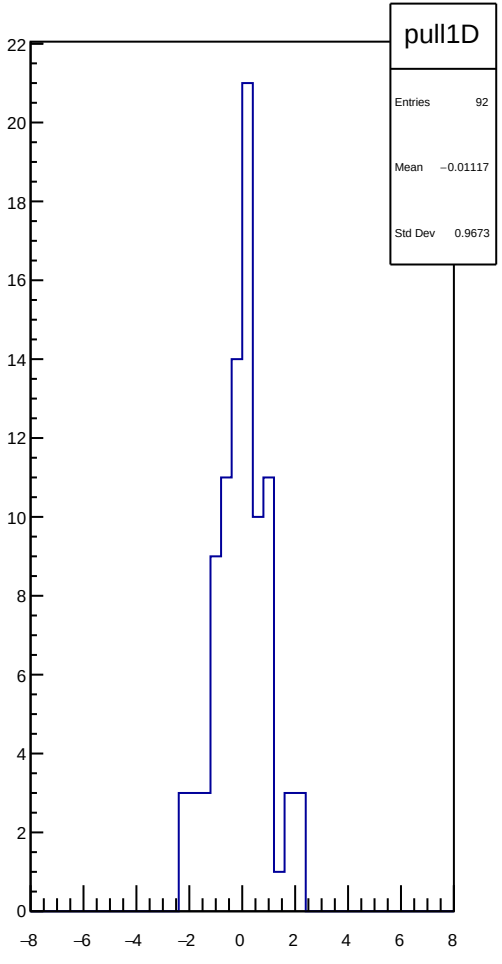

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 304.6 / 91
p0 1288 ± 0.9697
1400
1380
1360
1340
1320
1300
1280
1260
1240

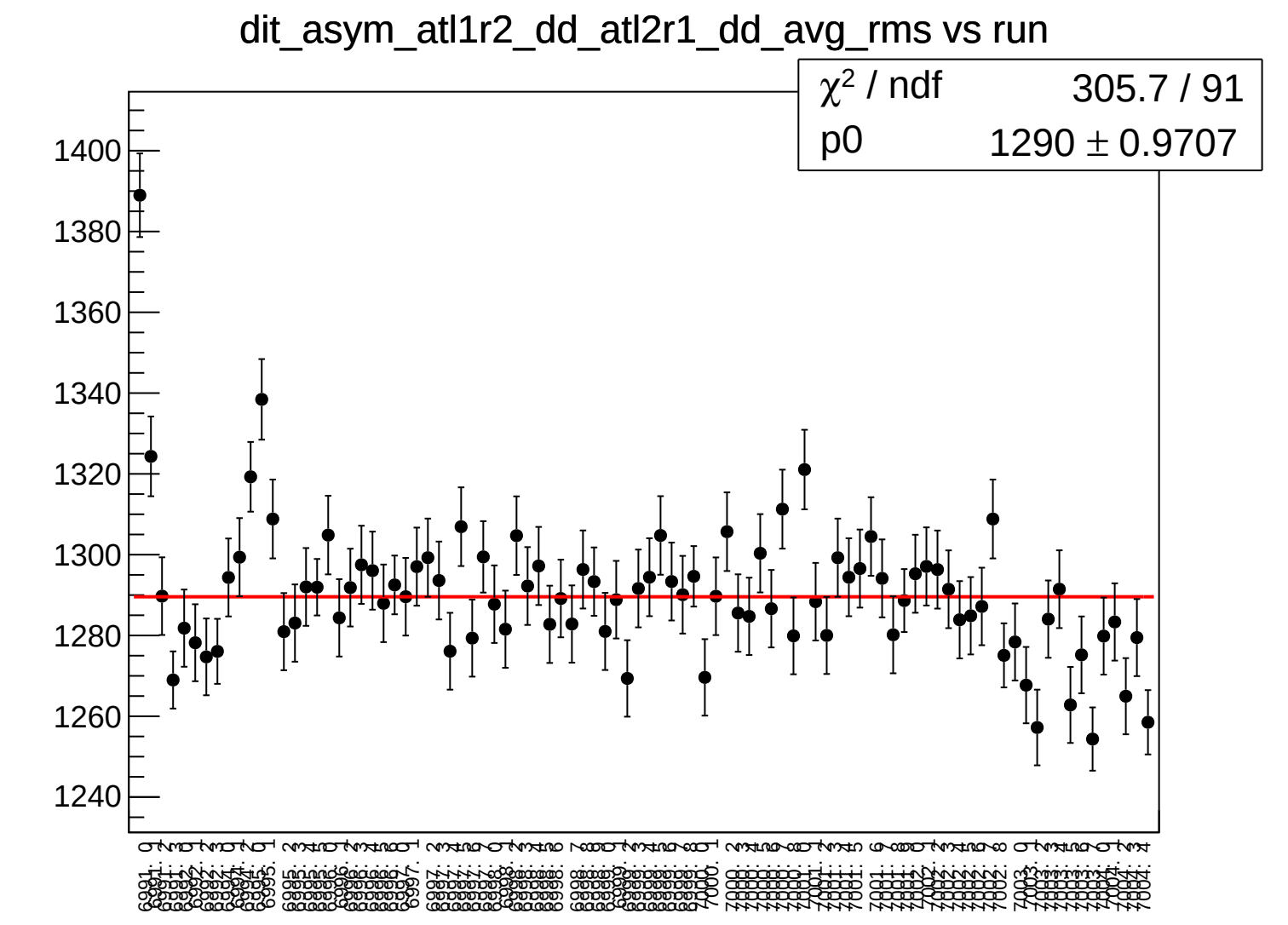

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 105.1 / 91
p0 −465.4 ± 386.2
pull
Entries 92
Mean 375.4
Std Dev 0

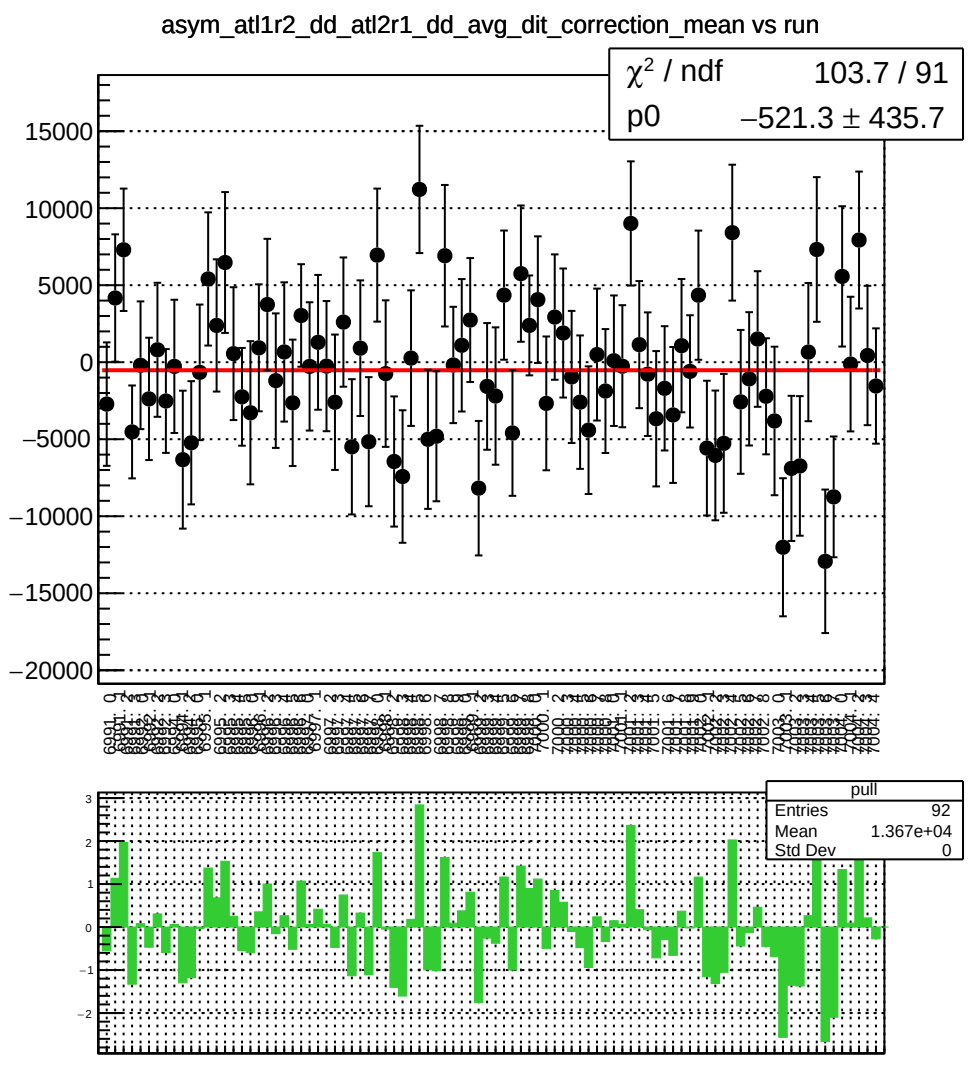

pull1D
Entries 92
Mean −0.008546
Std Dev 1.069

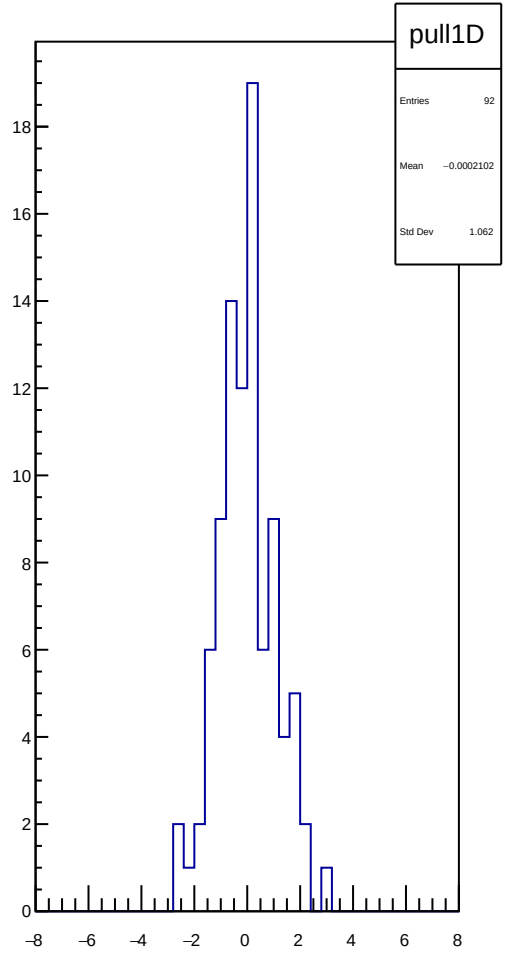

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5744 / 91
p0 362.2 ± 0.2731
440
420
400
380
360
340
320
300

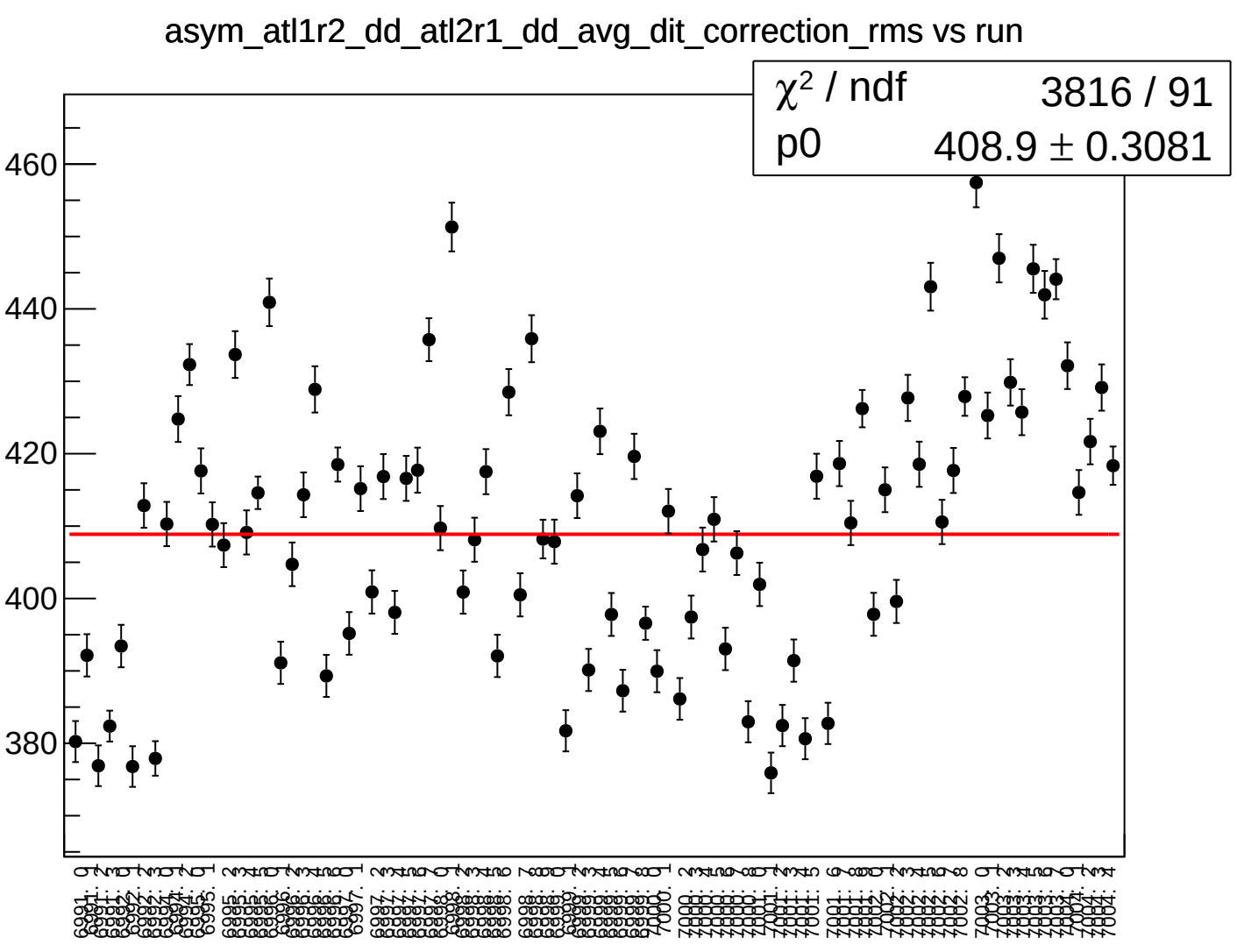

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 86.09 / 91
p0 −1092 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 269.9
Std Dev 0
2
1
0
−1
−2

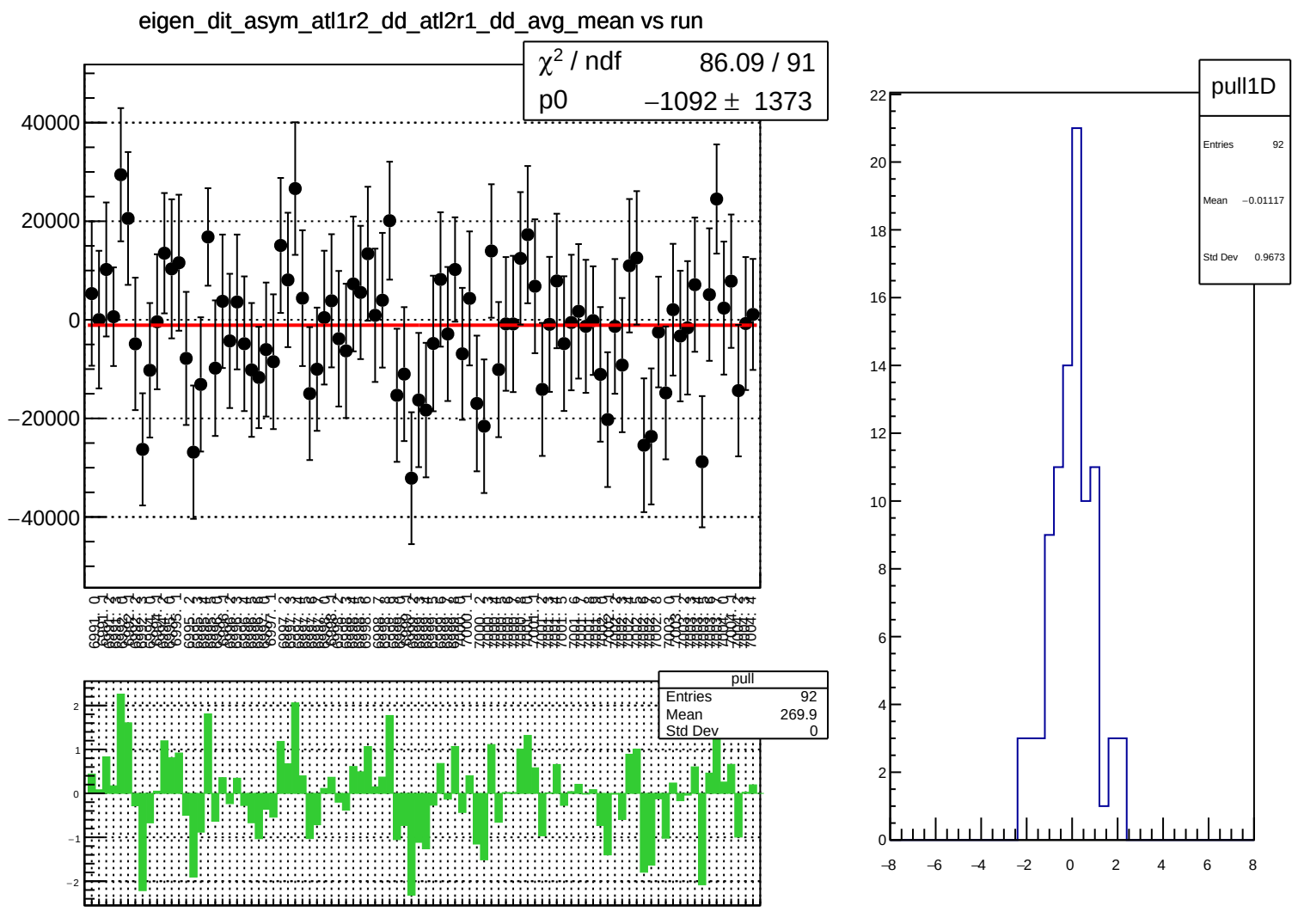

pull1D
Entries 92
Mean −0.01117
Std Dev 0.9673
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

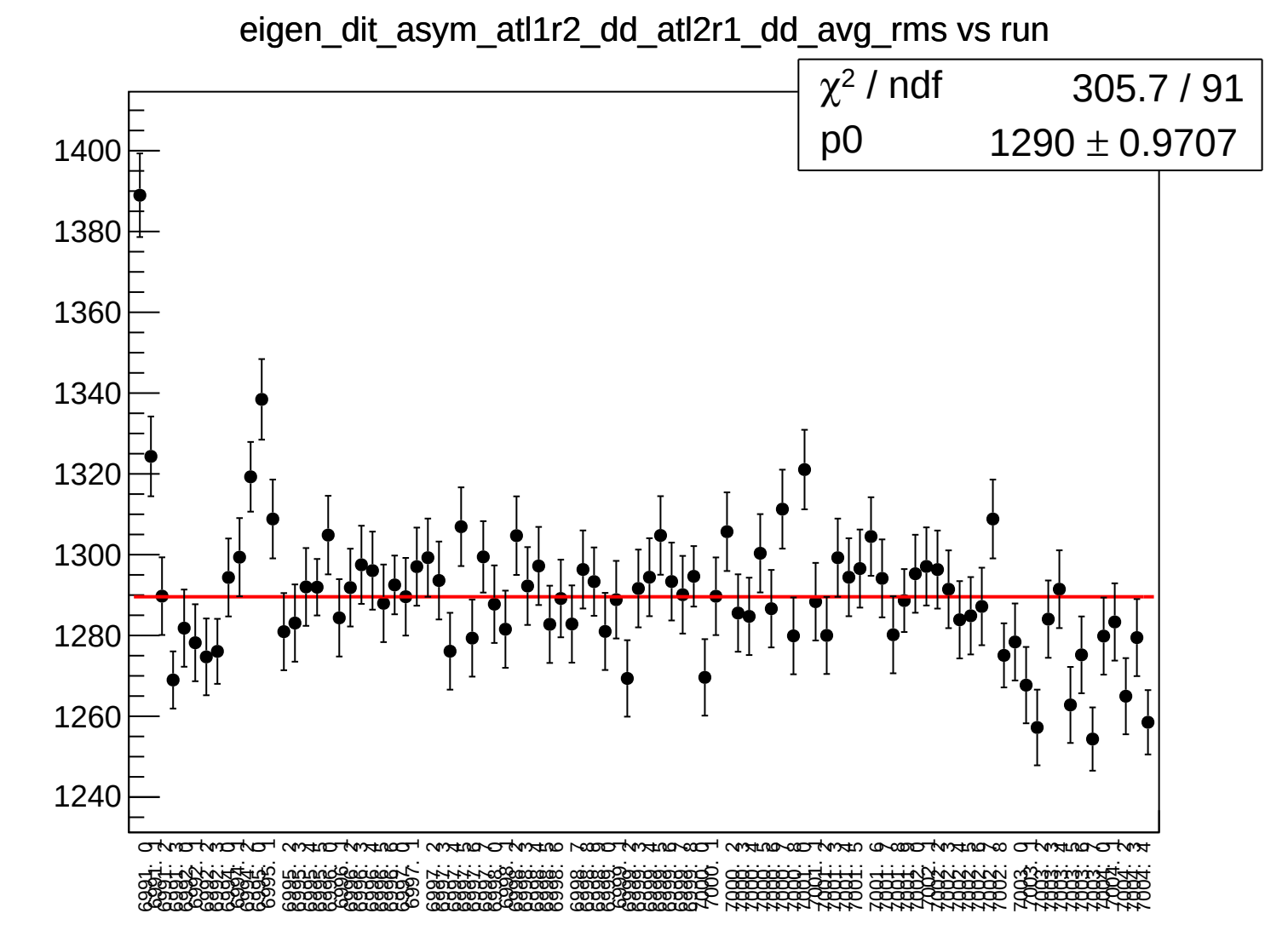

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 305.7 / 91
p0 1290 ± 0.9707
1400
1380
1360
1340
1320
1300
1280
1260
1240

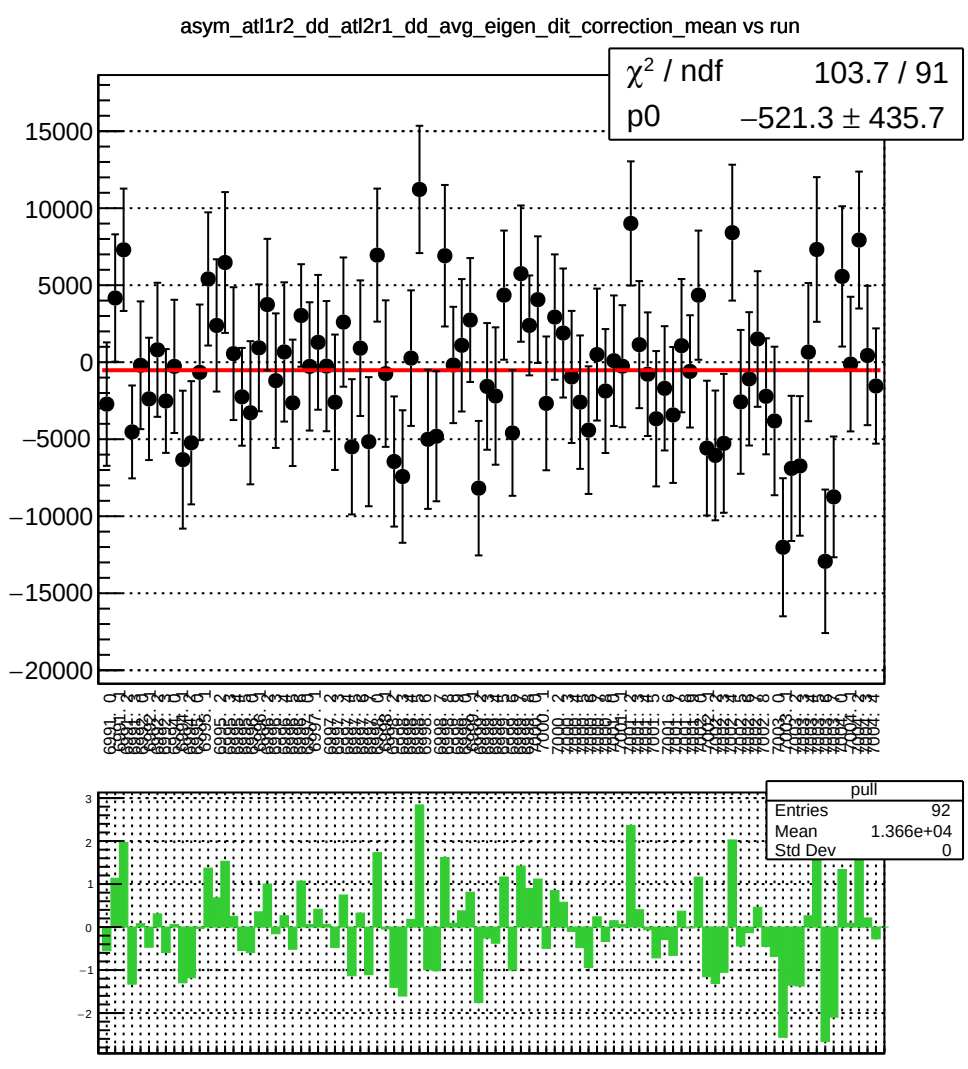

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 103.7 / 91
p0 −521.3 ± 435.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 1.367e+04
Std Dev 0
3
2
1
0
−1
−2

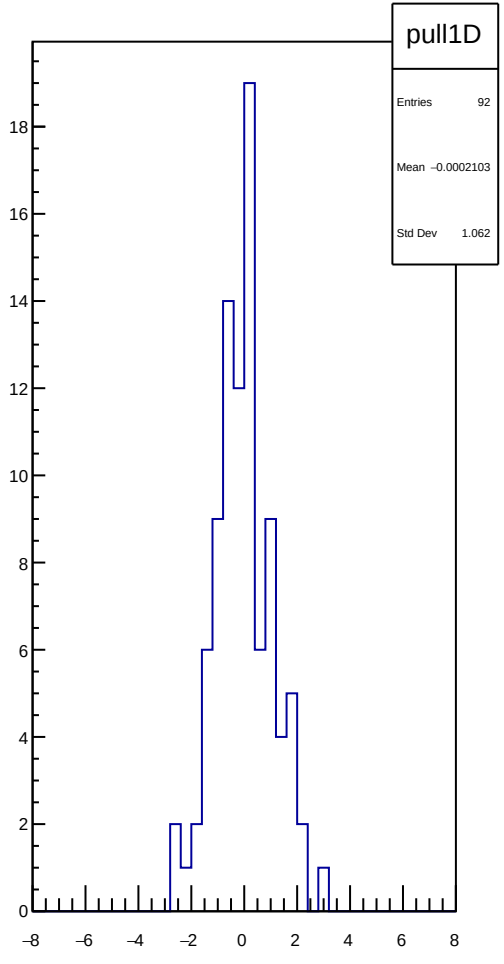

pull1D
Entries 92
Mean −0.0002102
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

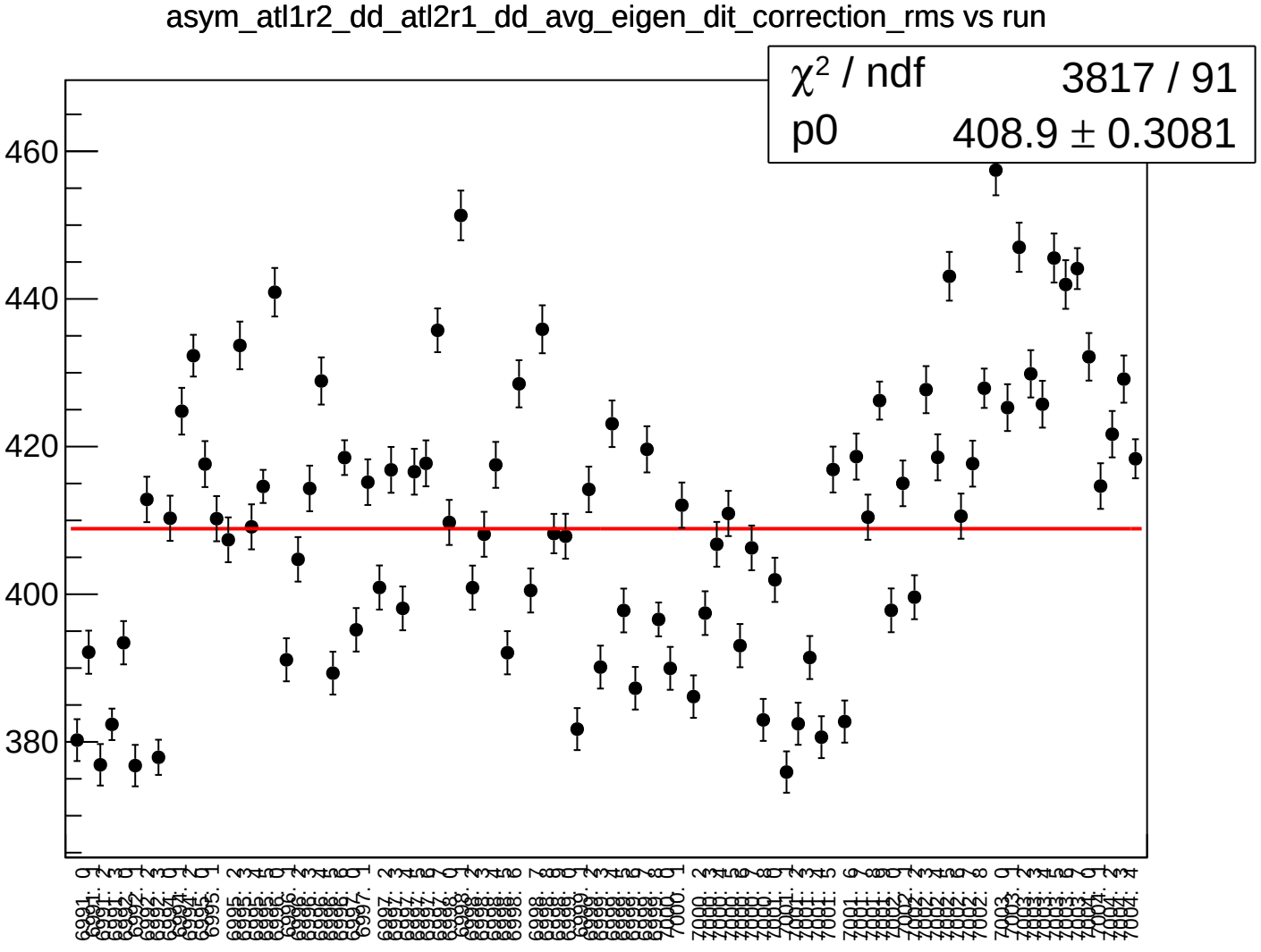

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 3816 / 91
p0 408.9 ± 0.3081
460
440
420
400
380

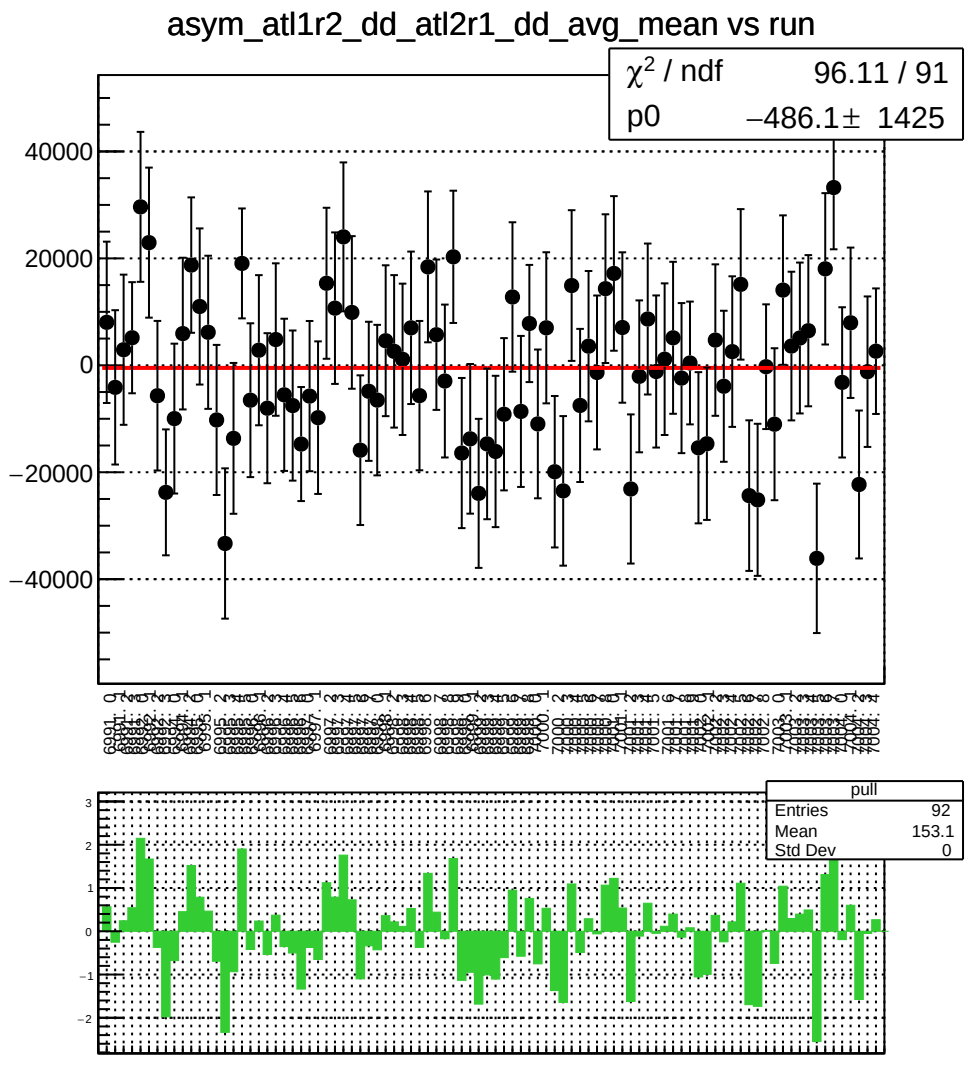

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 86.09 / 91
p0 −1092 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 269.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01117
Std Dev 0.9673
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

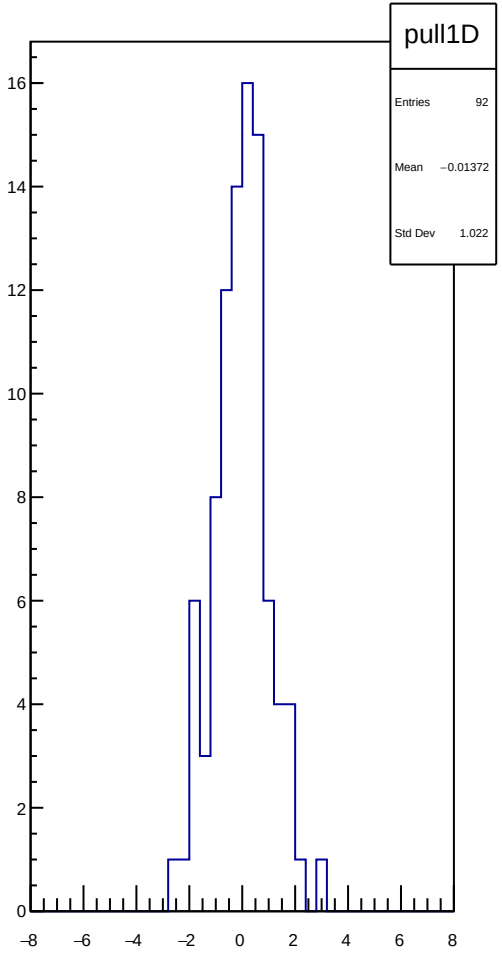

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 305.7 / 91
p0 1290 ± 0.9707
1400
1380
1360
1340
1320
1300
1280
1260
1240

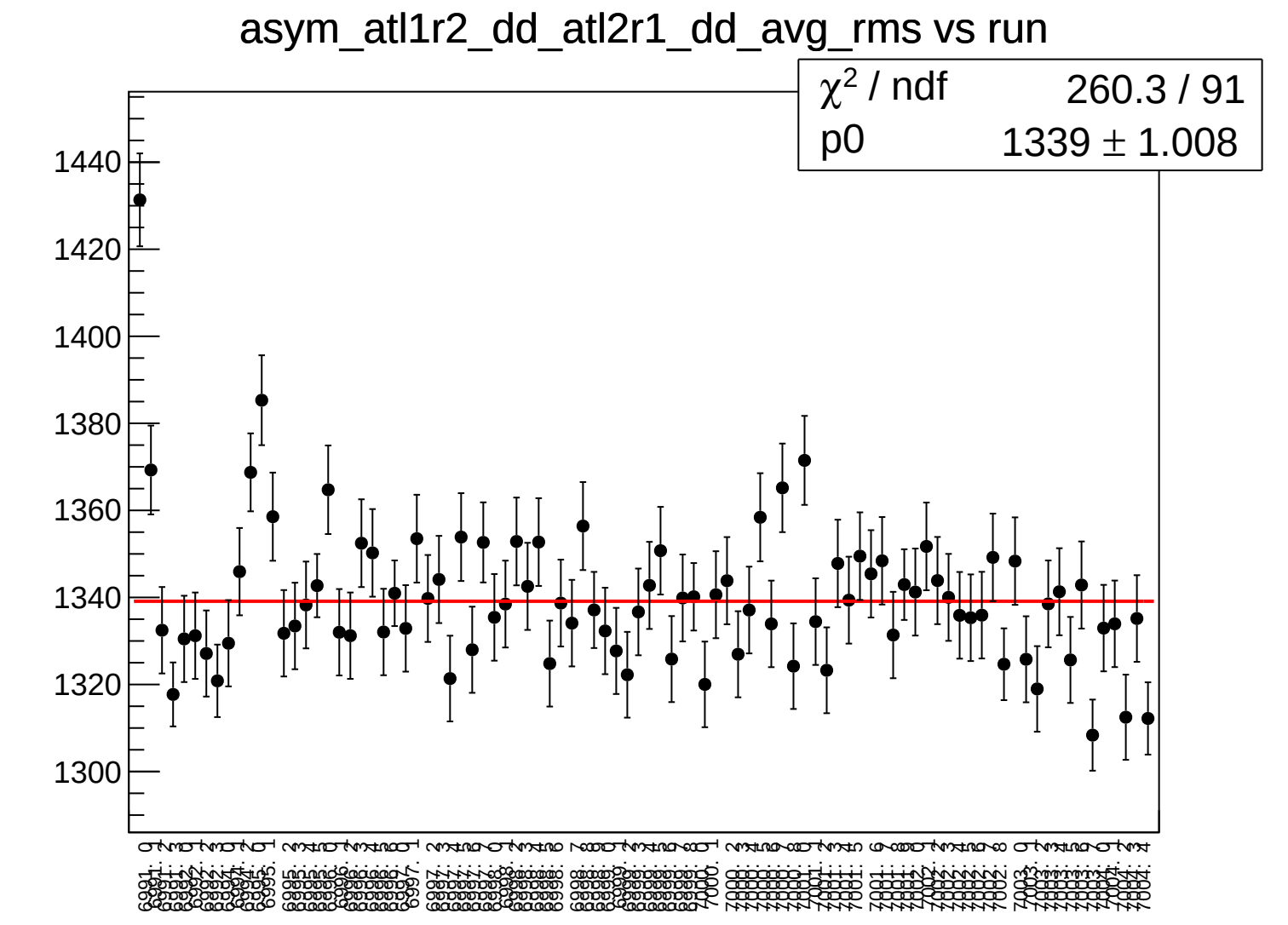

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 103.7 / 91
p0 −521.3 ± 435.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 1.366e+04
Std Dev 0
3
2
1
0
−1
−2

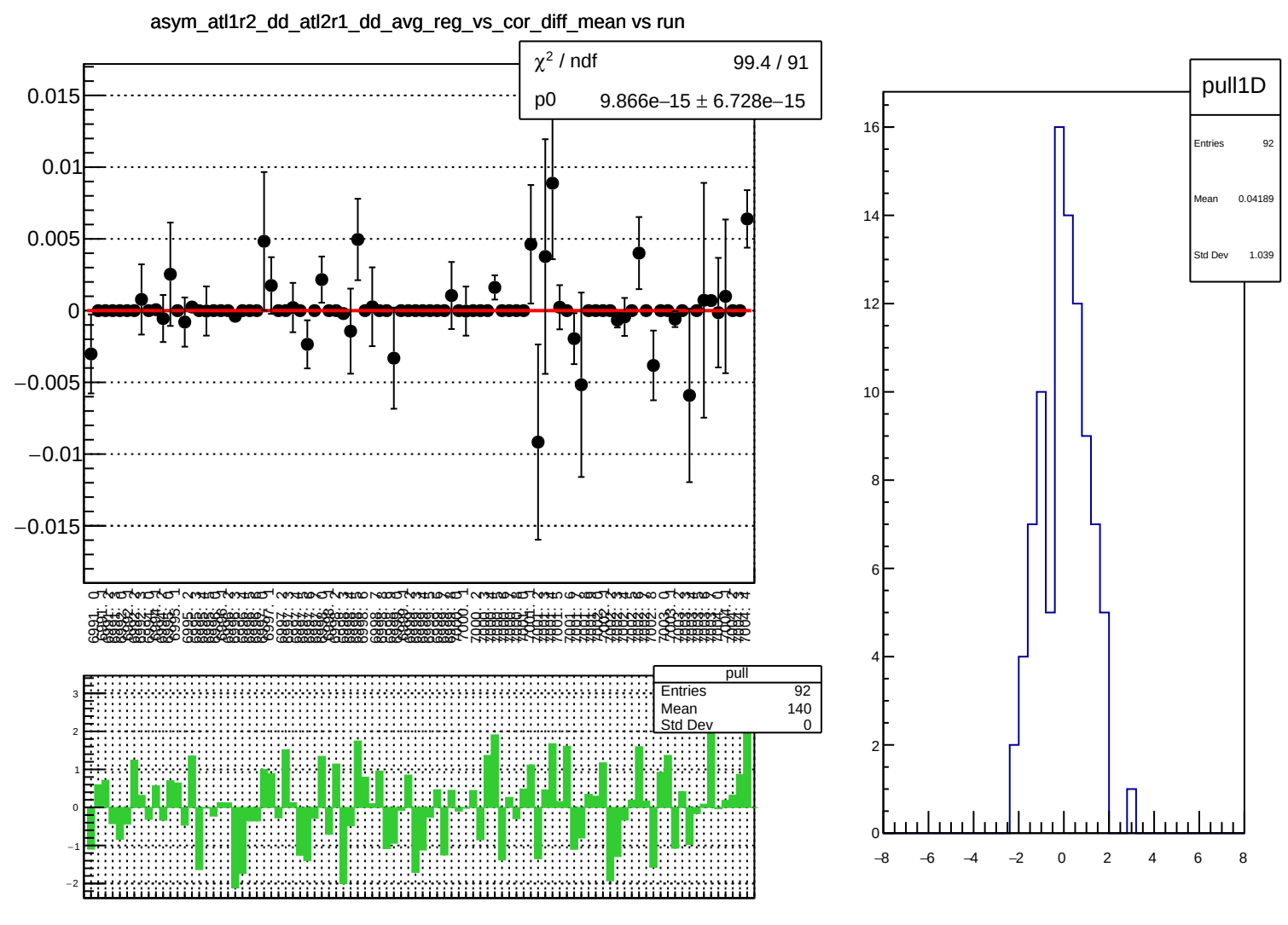

pull1D
Entries 92
Mean −0.0002103
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

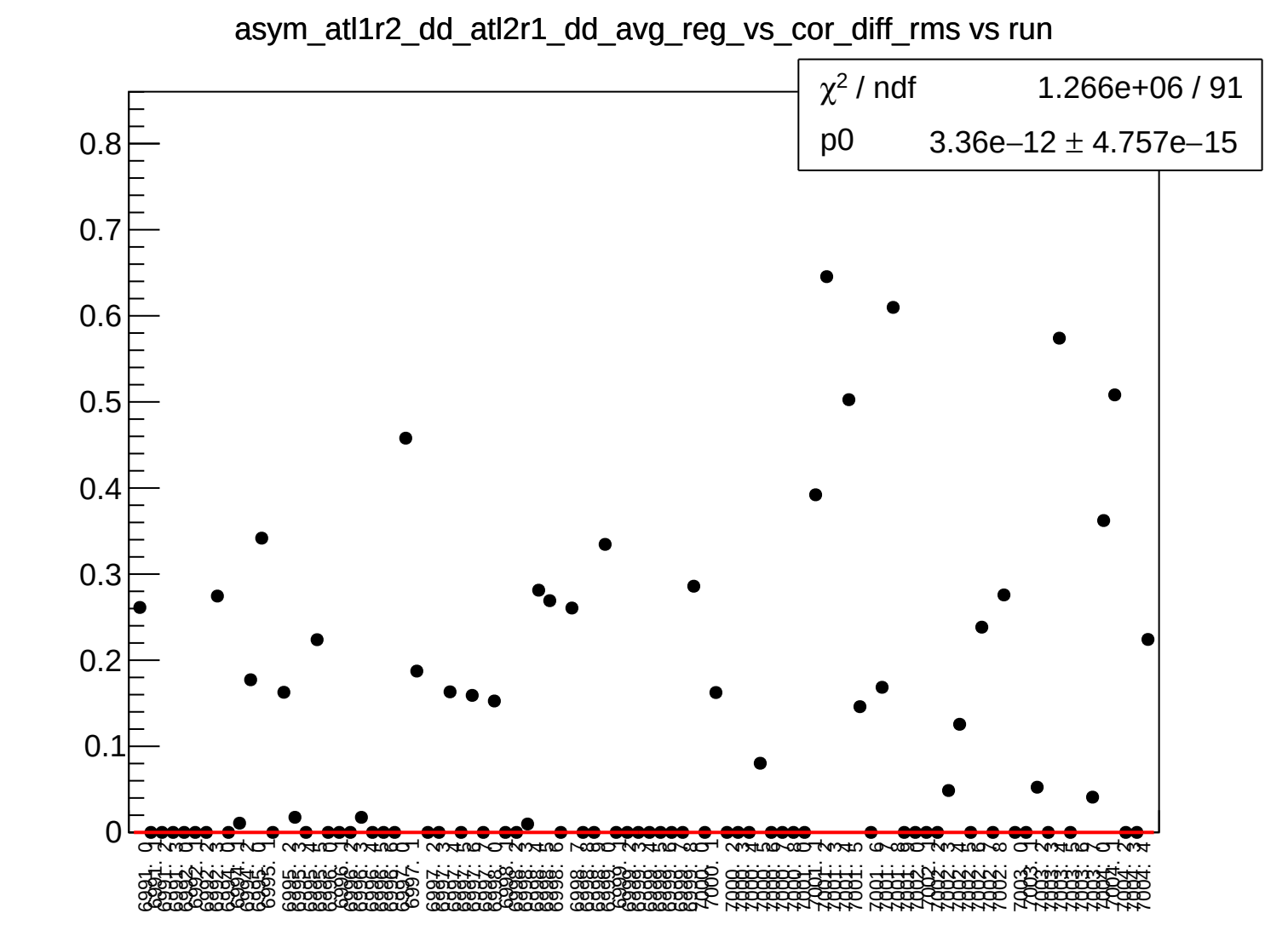

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3817 / 91
p0 408.9 ± 0.3081
460
440
420
400
380

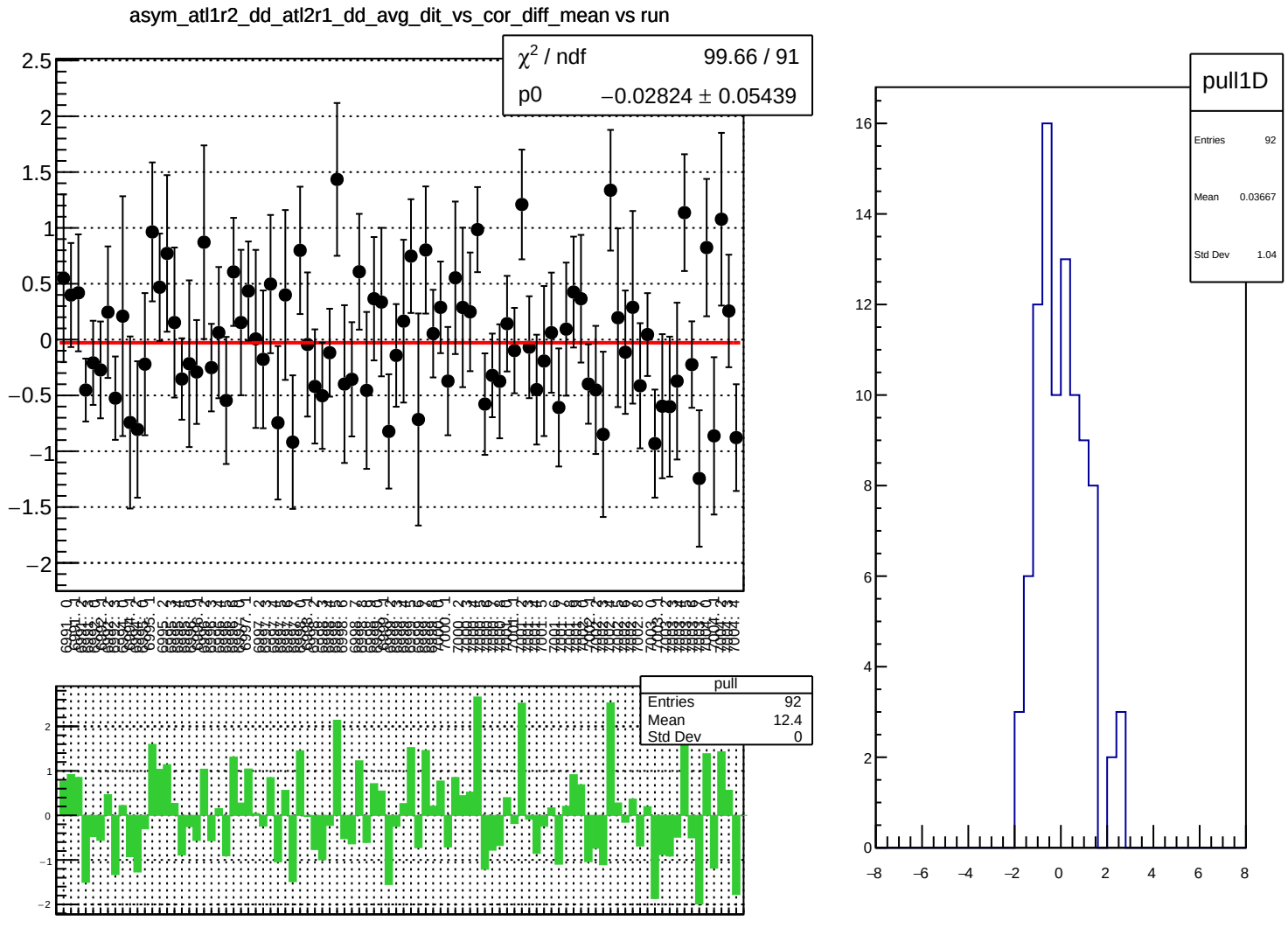

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.11 / 91
p0 −486.1± 1425
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 153.1
Std Dev 0
3
2
1
0
−1
−2

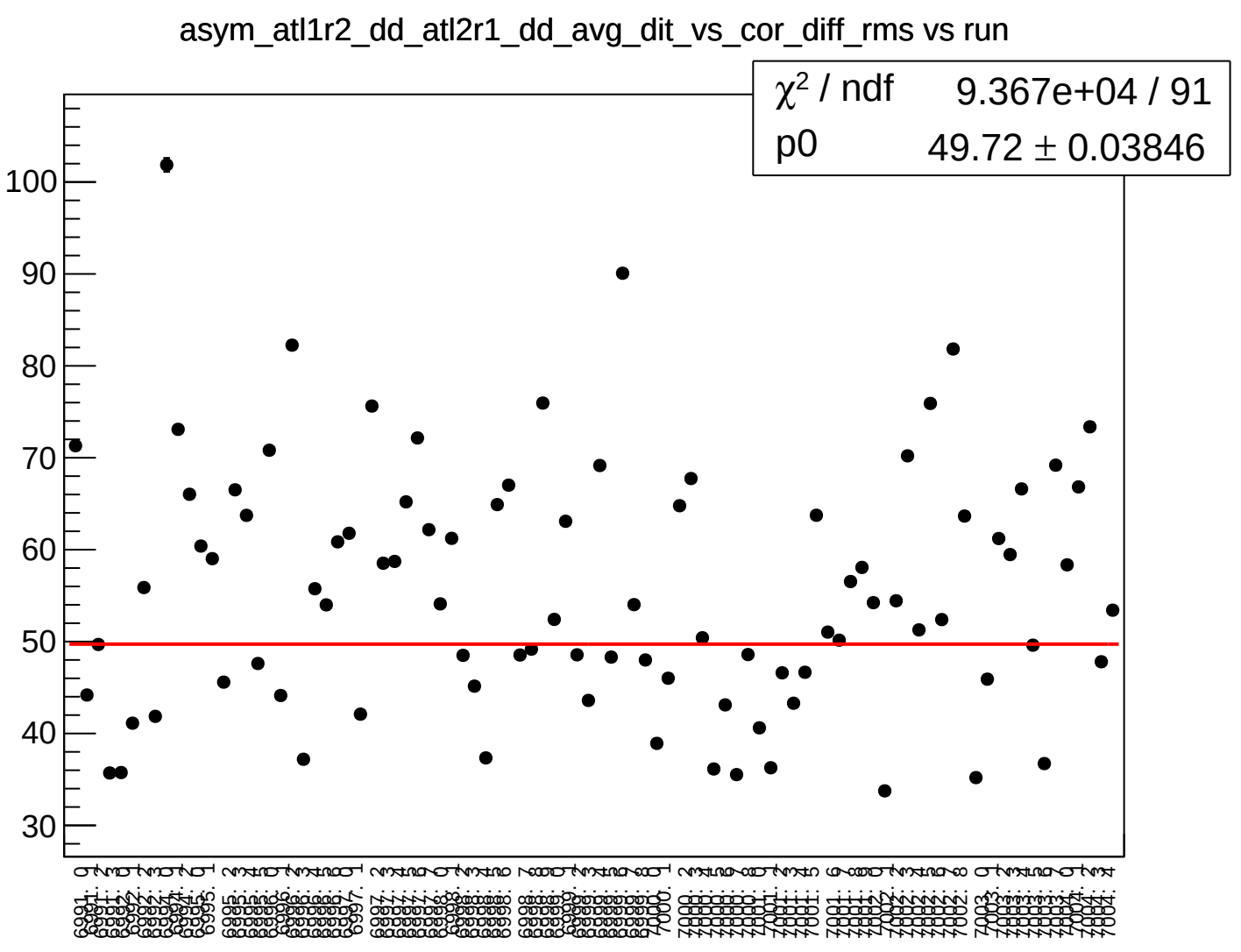

pull1D
Entries 92
Mean −0.01372
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

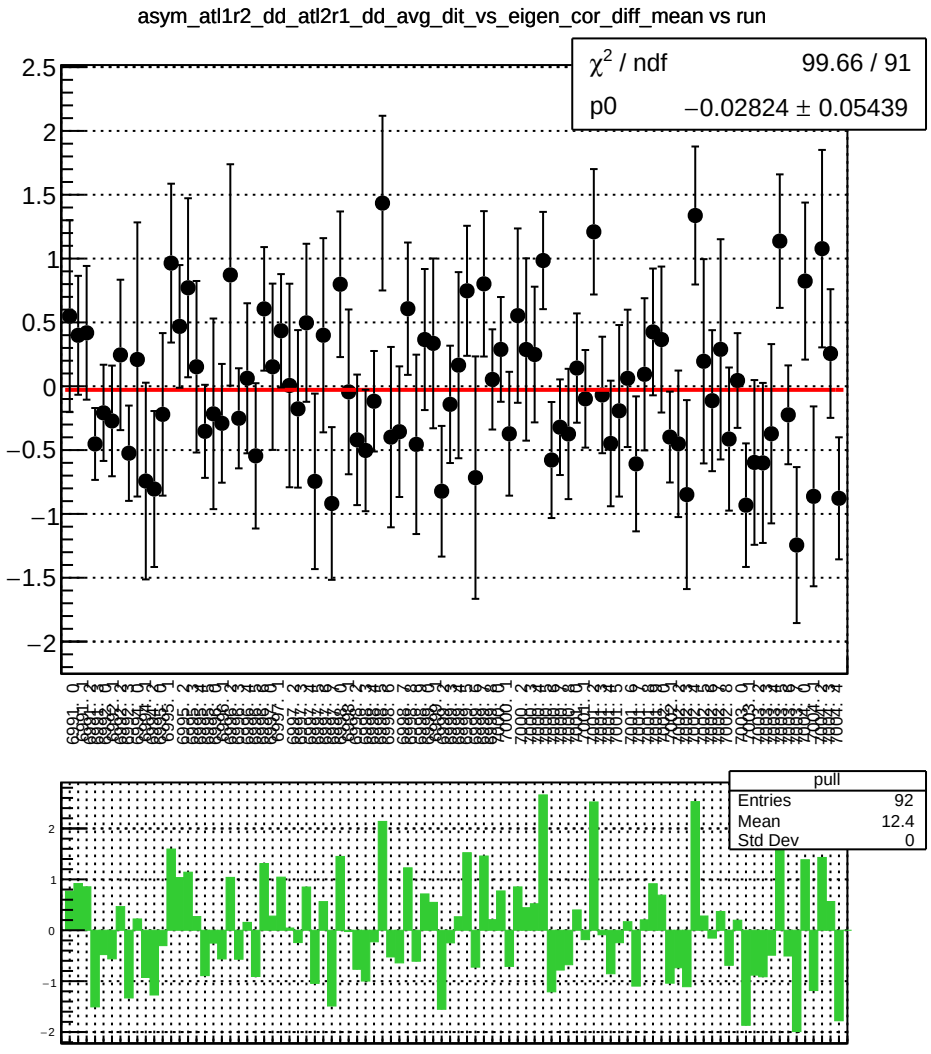

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 260.3 / 91
p0 1339 ± 1.008
1440
1420
1400
1380
1360
1340
1320
1300

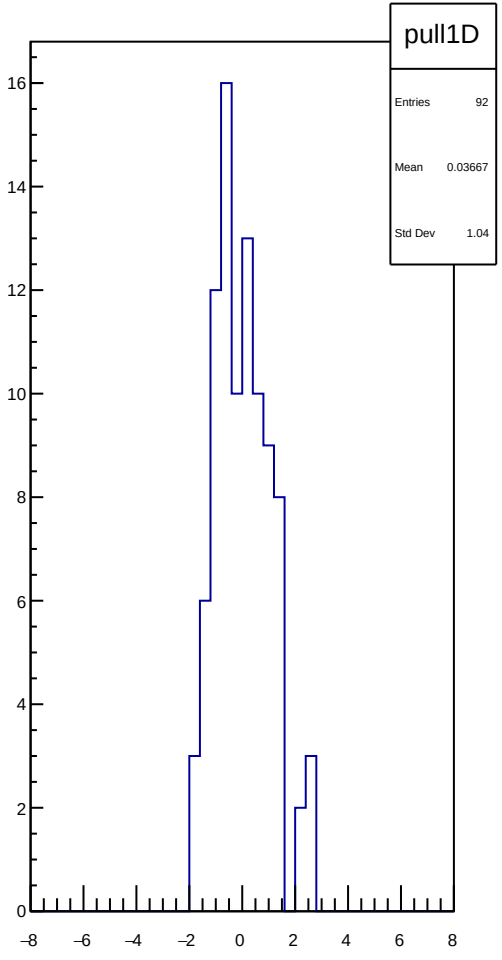

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.4 / 91
p0 9.866e−15 ± 6.728e−15
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 140
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.04189
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

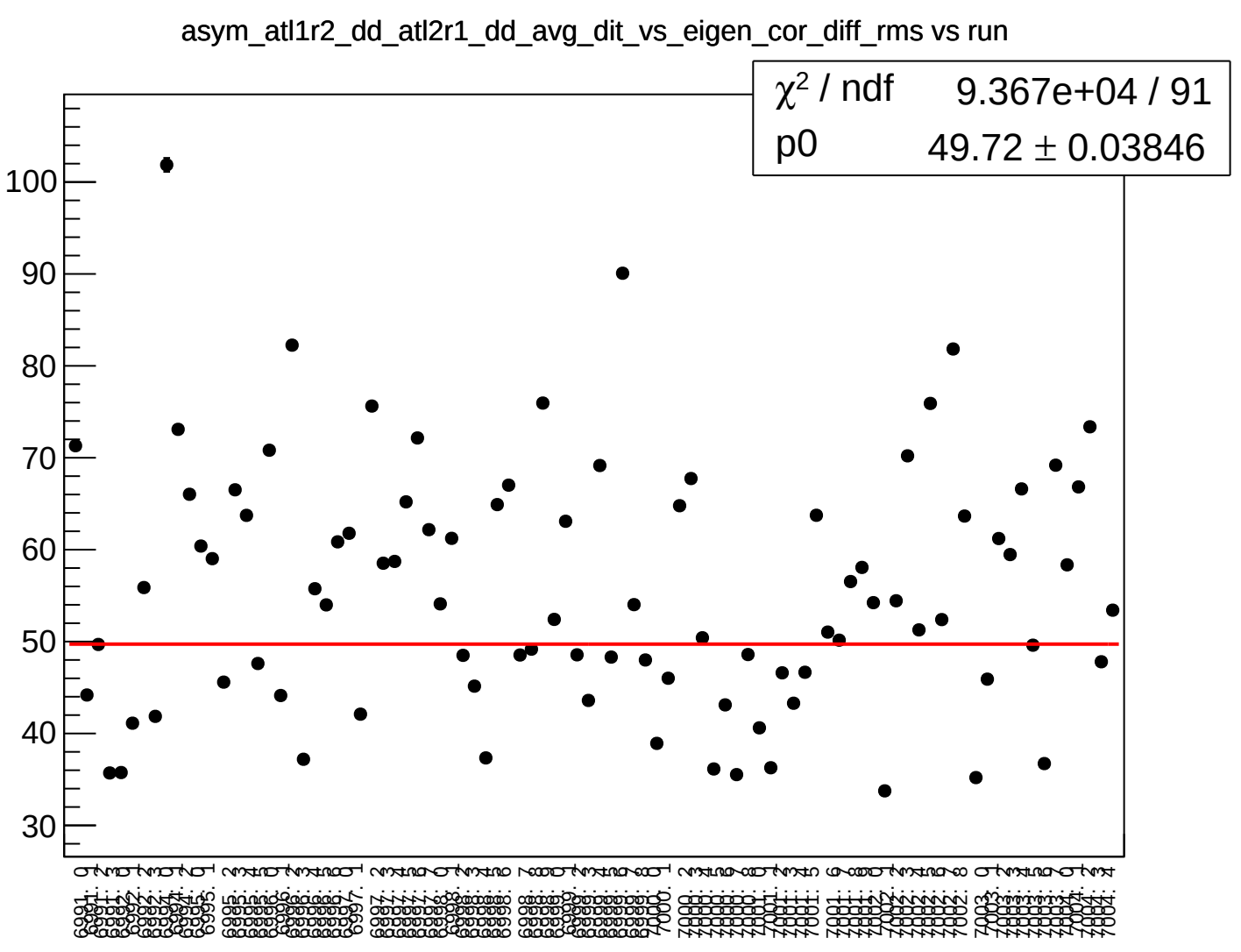

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.266e+06 / 91
p0 3.36e−12 ± 4.757e−15
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

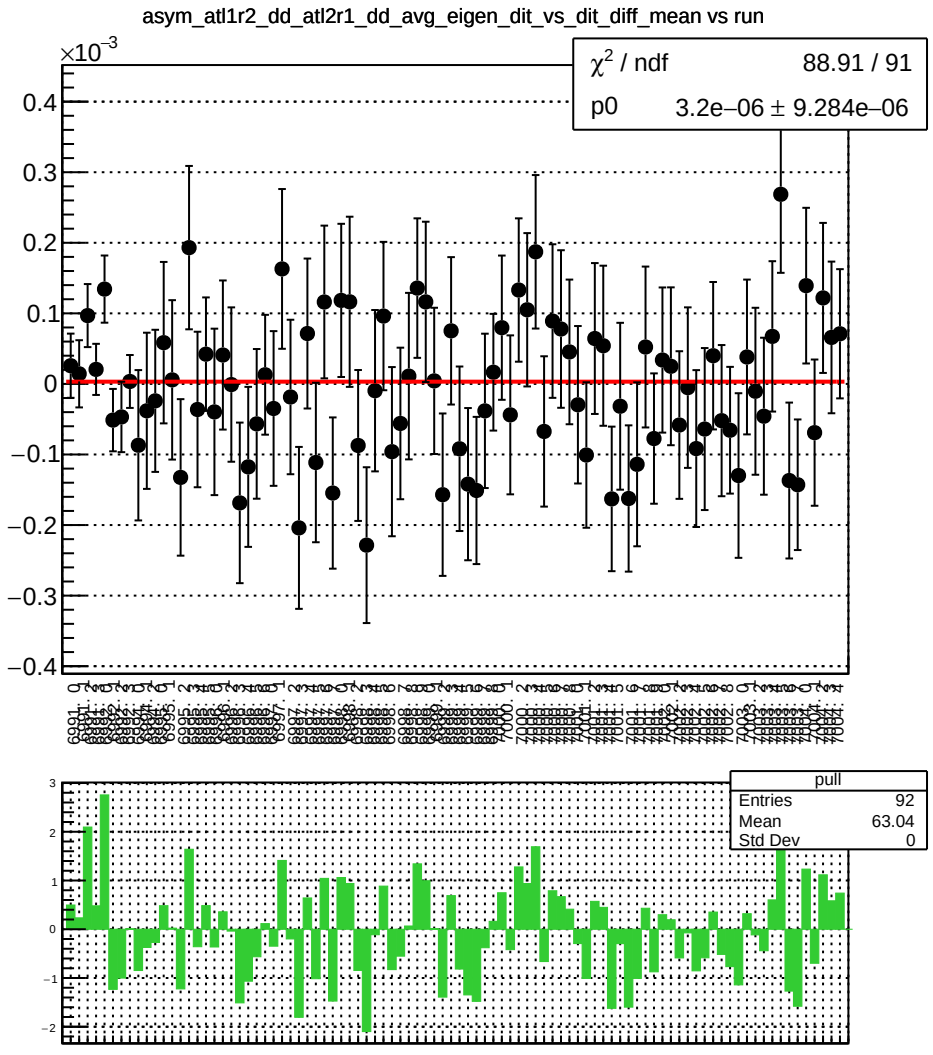

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.66 / 91
p0 −0.02824 ± 0.05439
pull
Entries 92
Mean 12.4
Std Dev 0
pull1D
Entries 92
Mean 0.03667
Std Dev 1.04

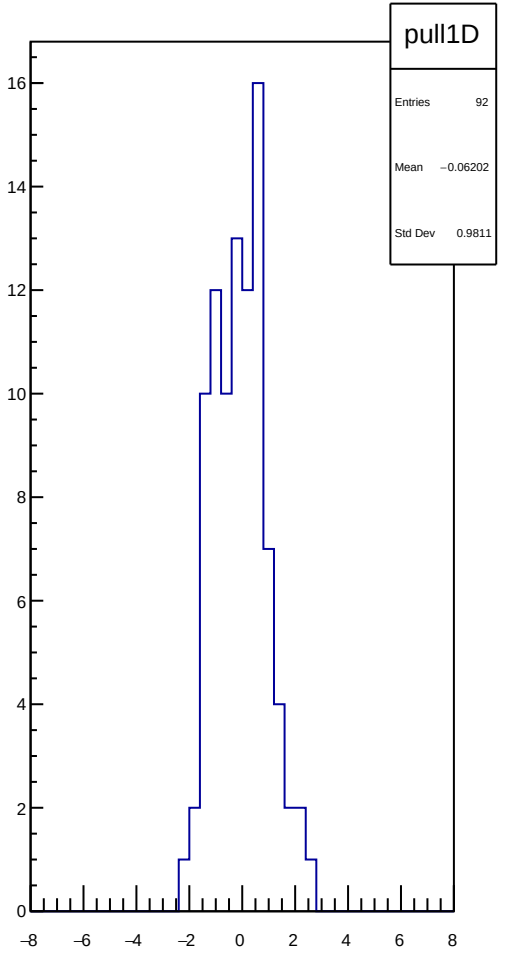

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.367e+04 / 91
p0 49.72 ± 0.03846
100
90
80
70
60
50
40
30

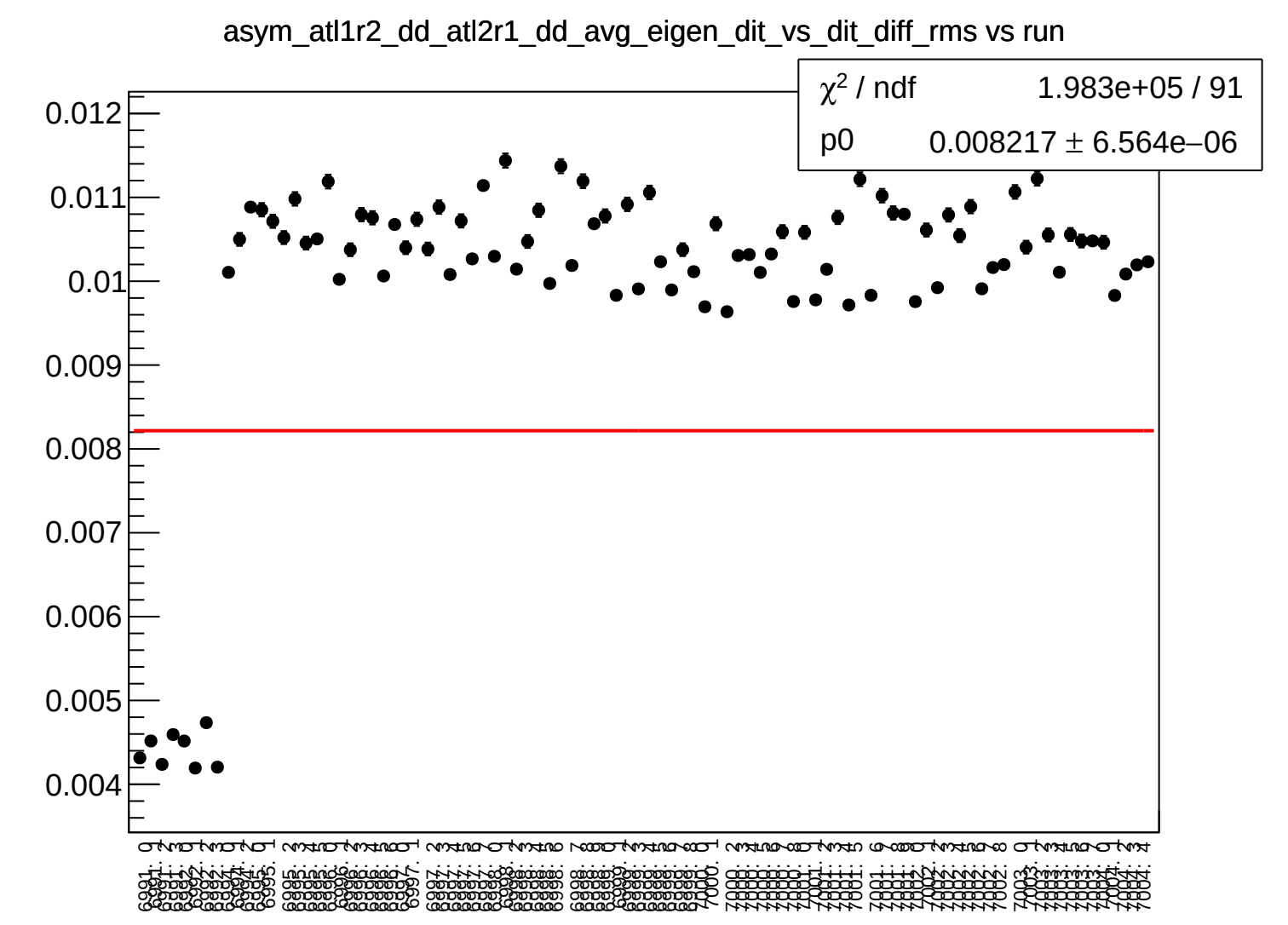

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.66 / 91
p0 −0.02824 ± 0.05439
pull
Entries 92
Mean 12.4
Std Dev 0

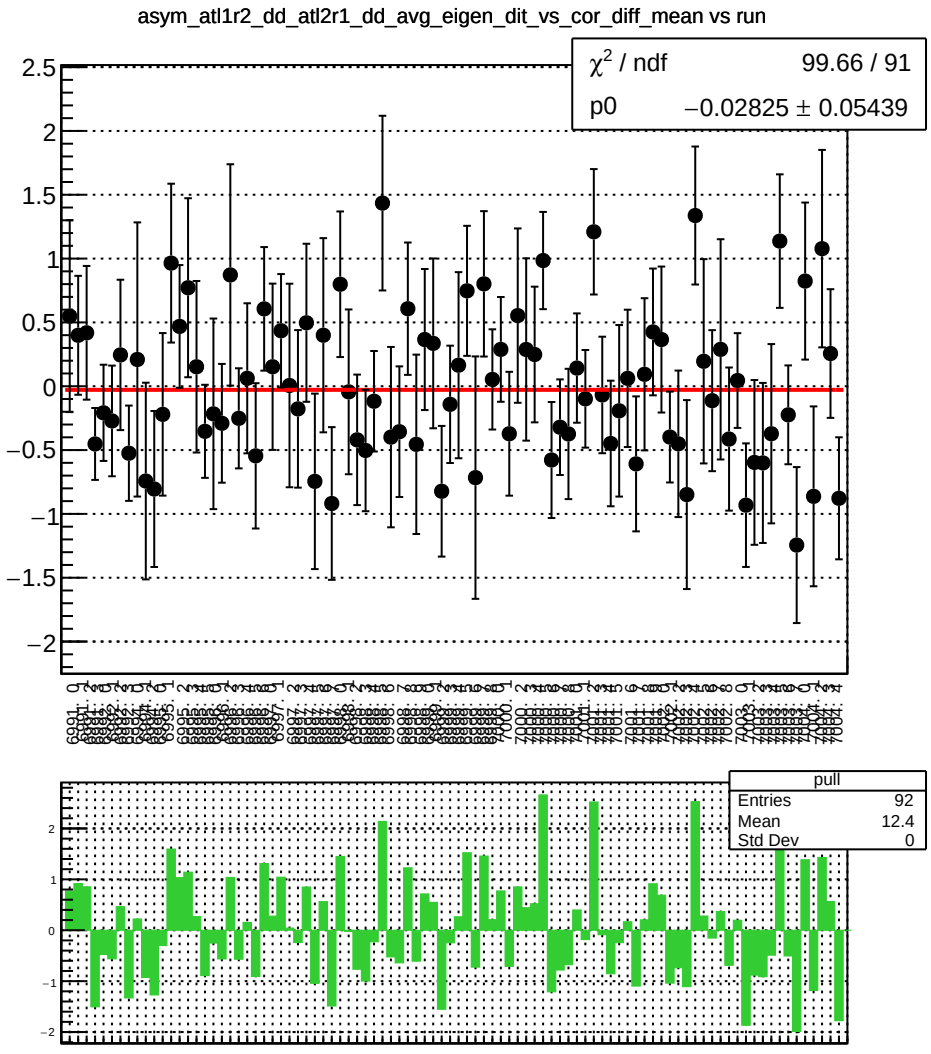

pull1D
Entries 92
Mean 0.03667
Std Dev 1.04

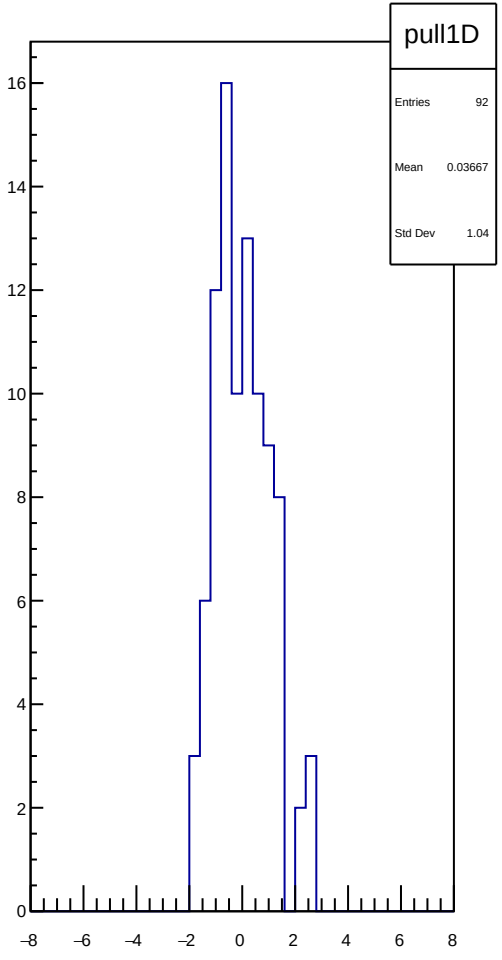

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.367e+04 / 91
p0 49.72 ± 0.03846
100
90
80
70
60
50
40
30

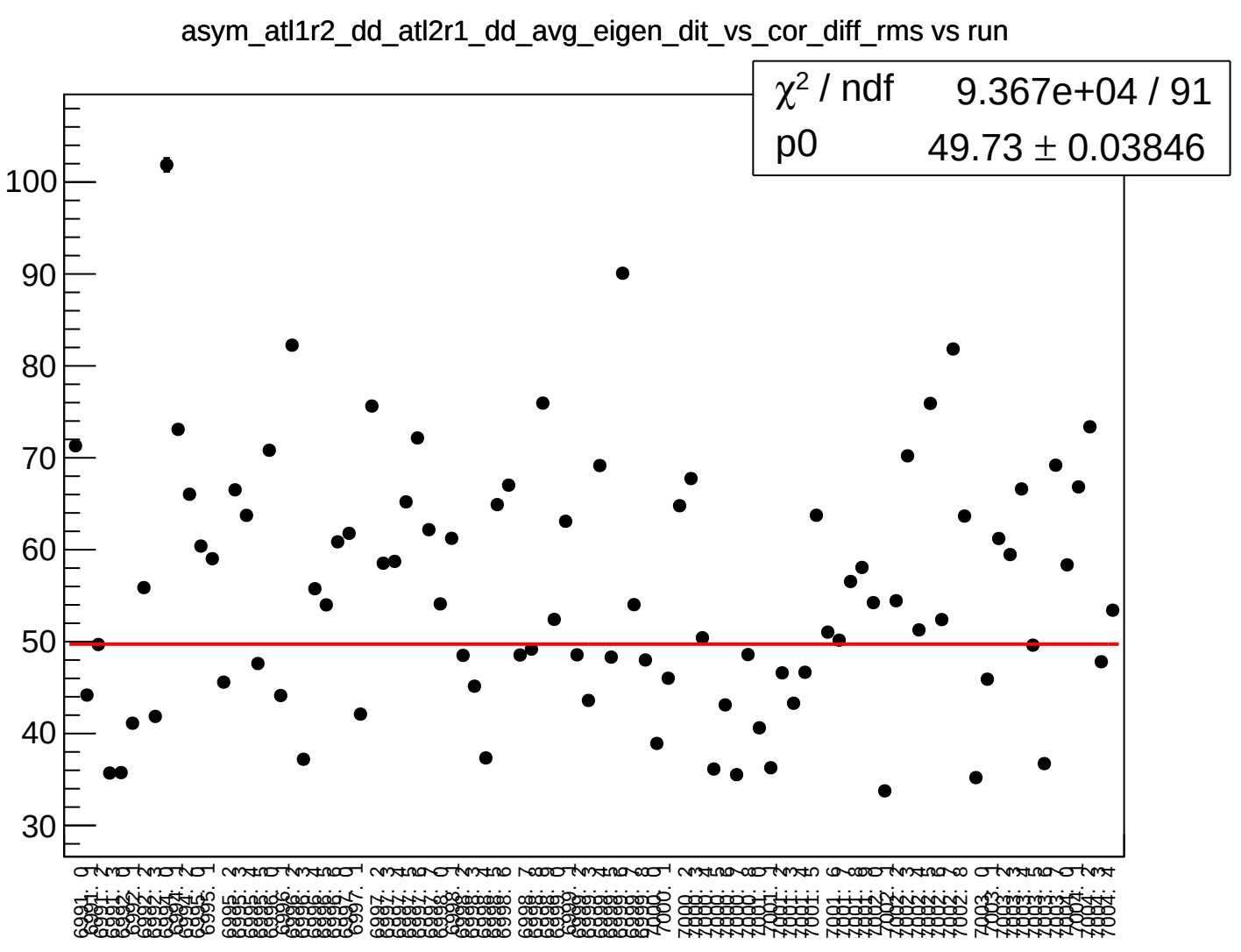

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.91 / 91
p0 3.2e−06 ± 9.284e−06
pull
Entries 92
Mean 63.04
Std Dev 0

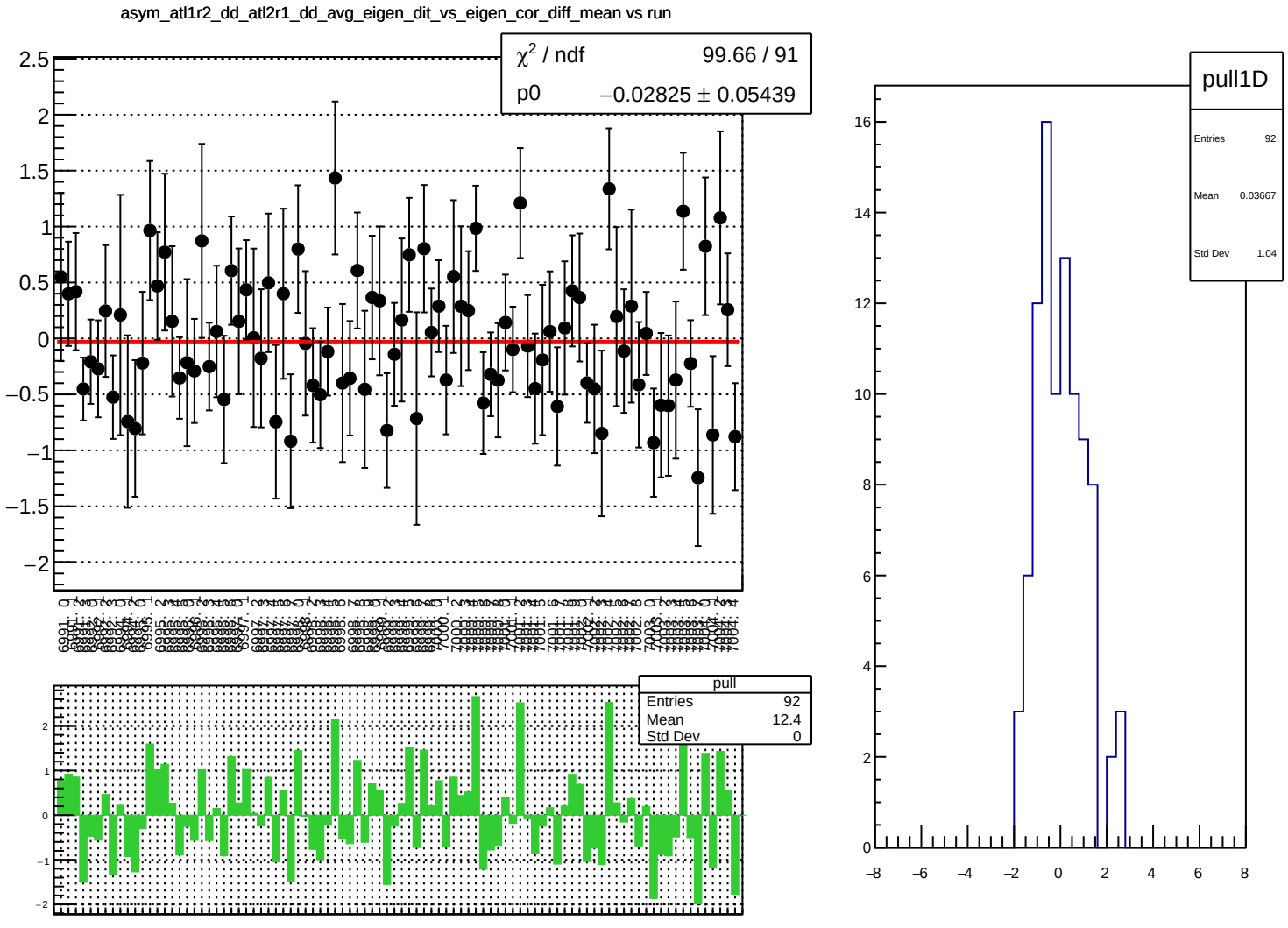

pull1D
Entries 92
Mean −0.06202
Std Dev 0.9811

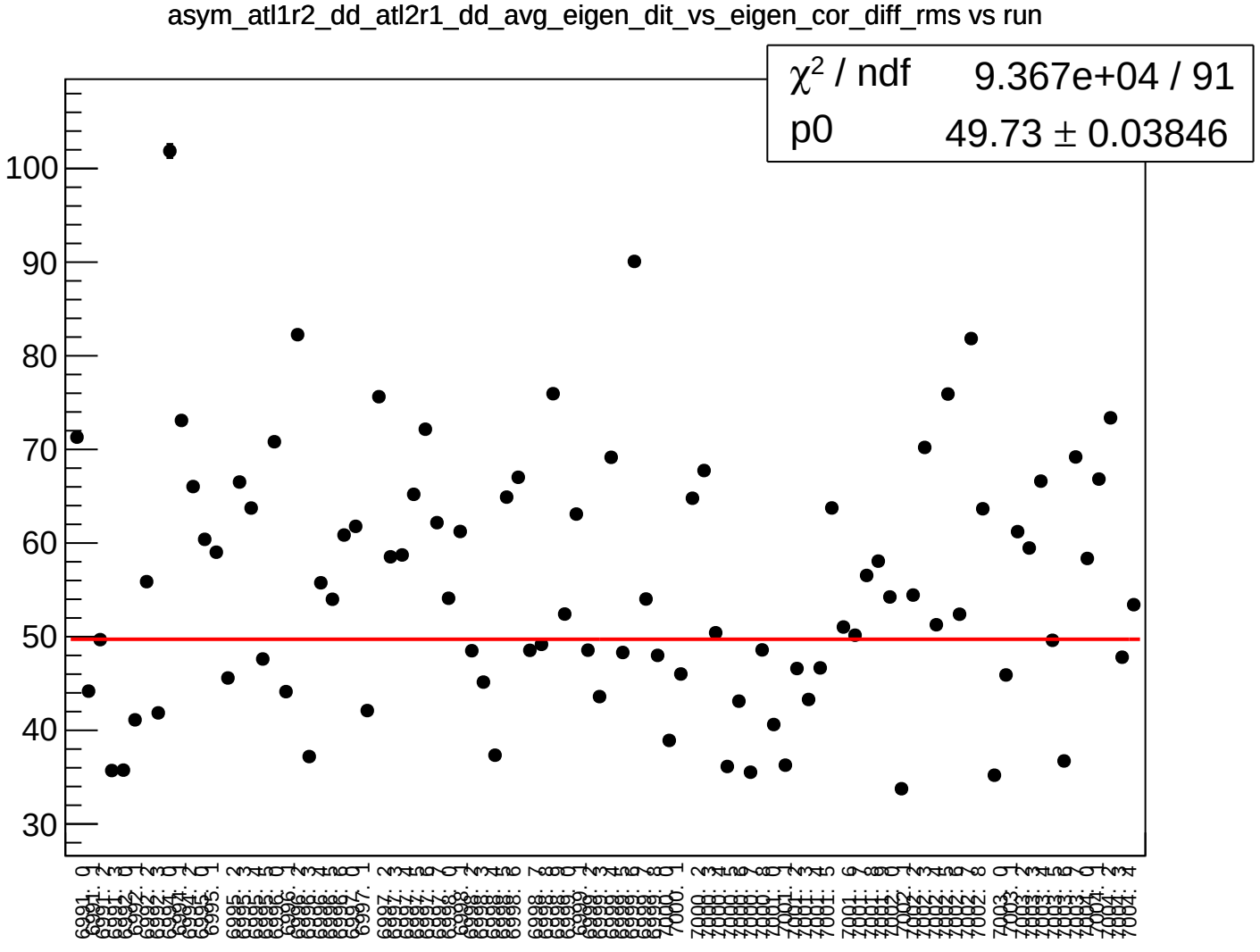

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.983e+05 / 91
p0 0.008217 ± 6.564e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

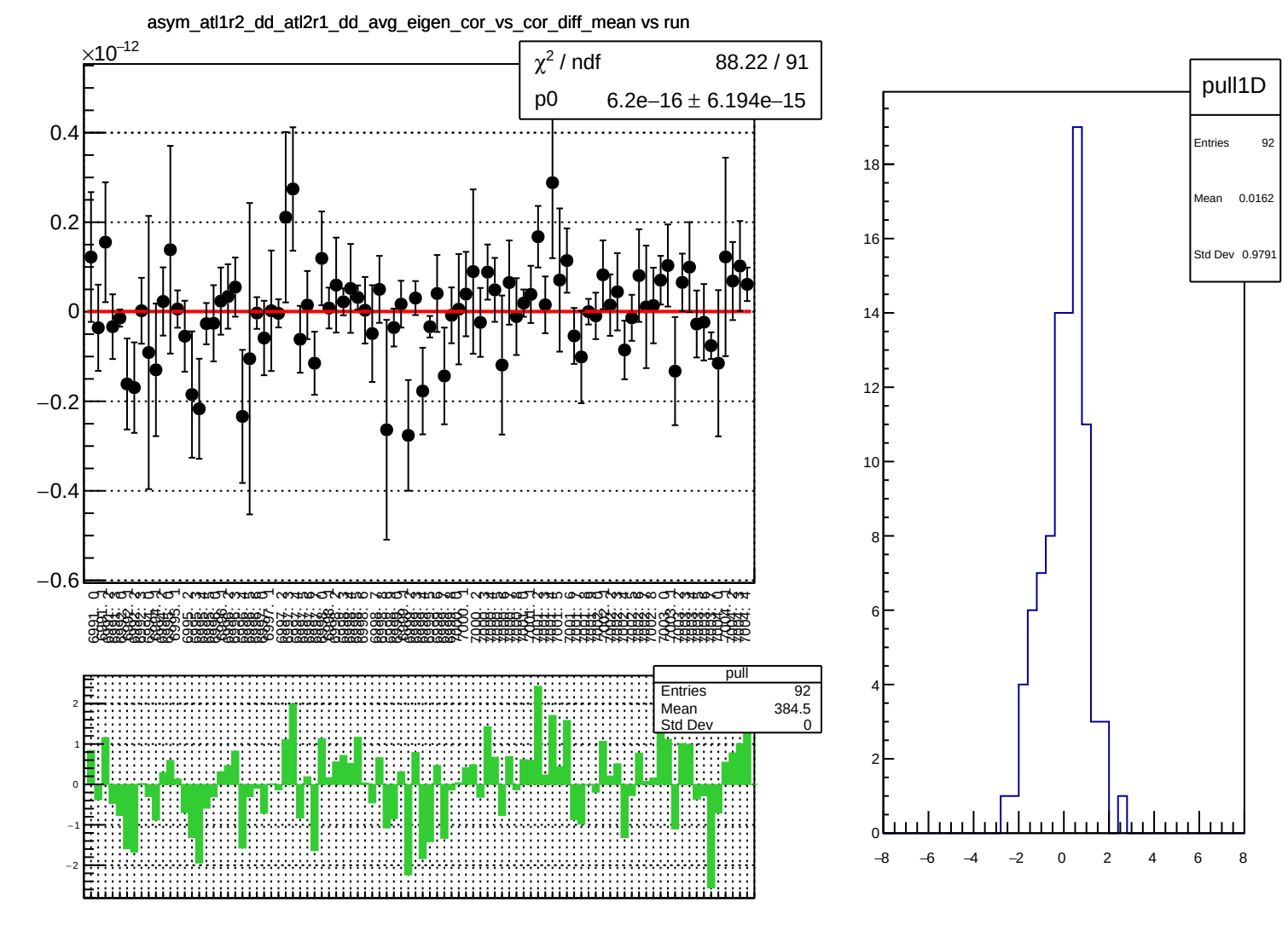

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.66 / 91
p0 −0.02825 ± 0.05439
pull
Entries 92
Mean 12.4
Std Dev 0

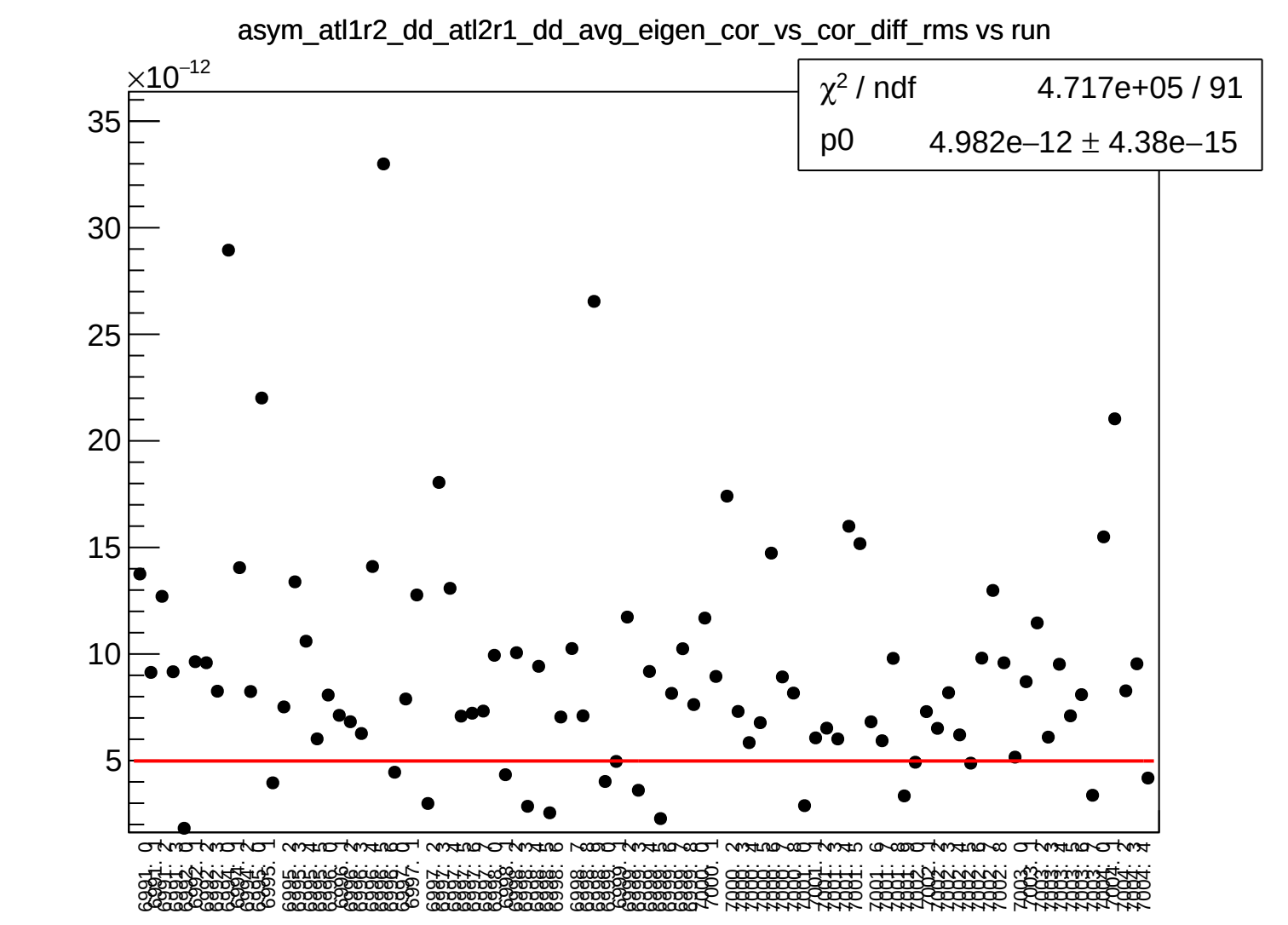

pull1D
Entries 92
Mean 0.03667
Std Dev 1.04

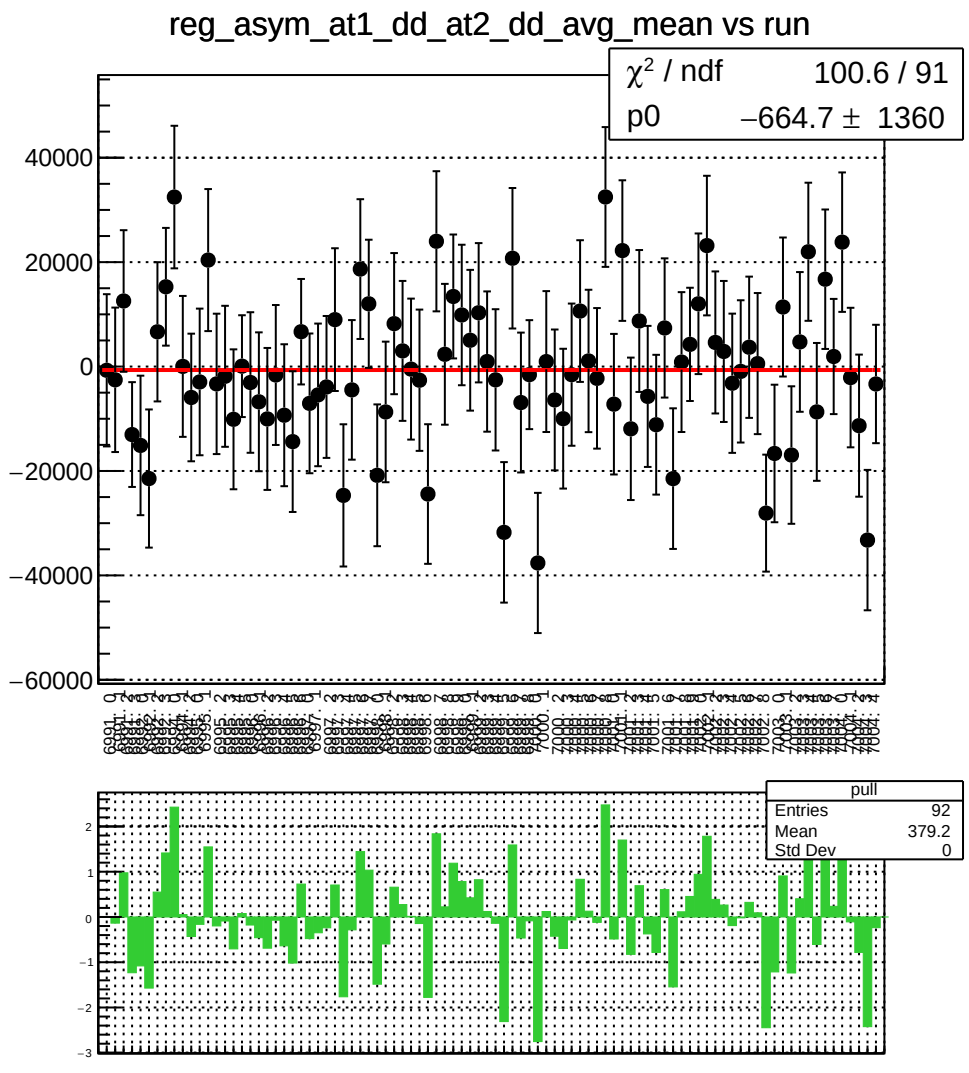

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.367e+04 / 91
p0 49.73 ± 0.03846
100
90
80
70
60
50
40
30

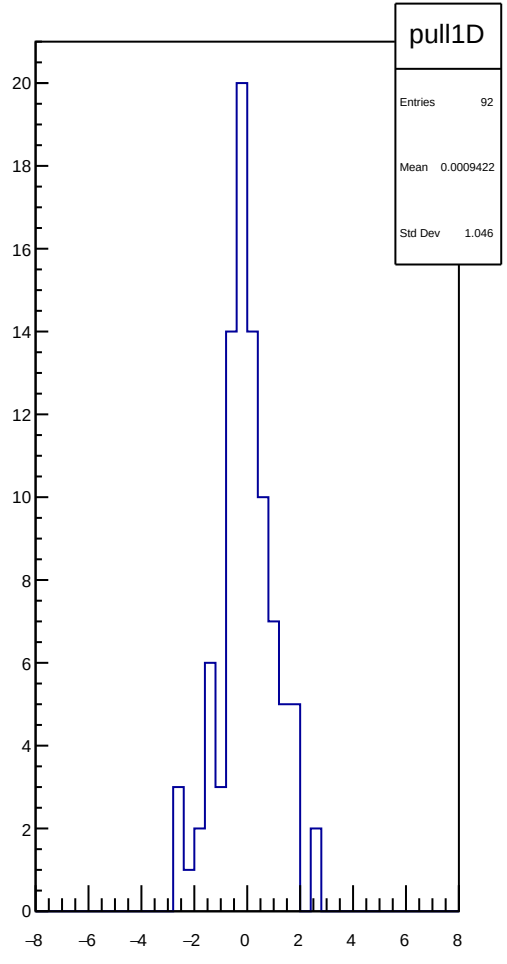

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.66 / 91
p0 −0.02825 ± 0.05439
pull
Entries 92
Mean 12.4
Std Dev 0
pull1D
Entries 92
Mean 0.03667
Std Dev 1.04

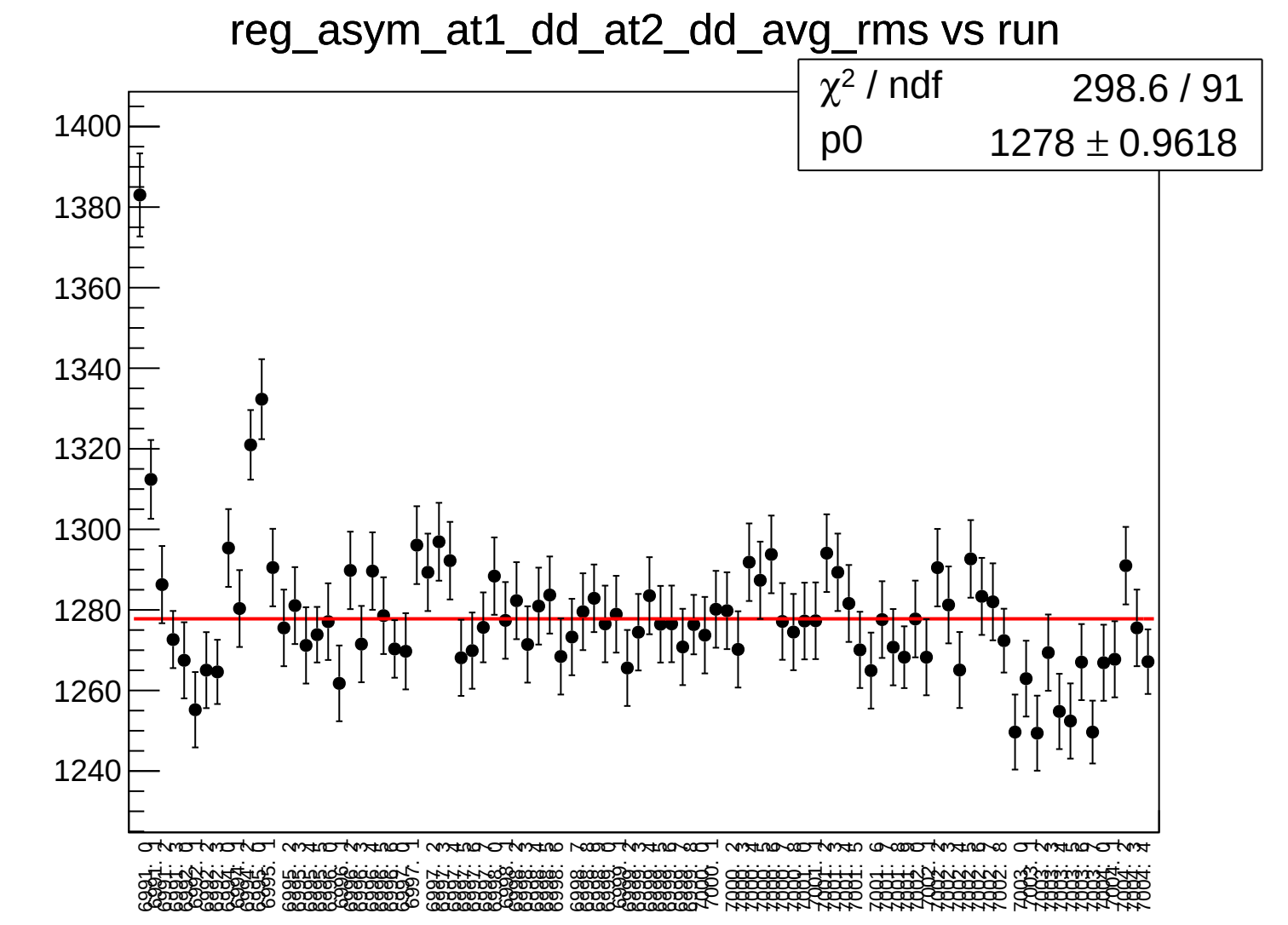

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.367e+04 / 91
p0 49.73 ± 0.03846
100
90
80
70
60
50
40
30

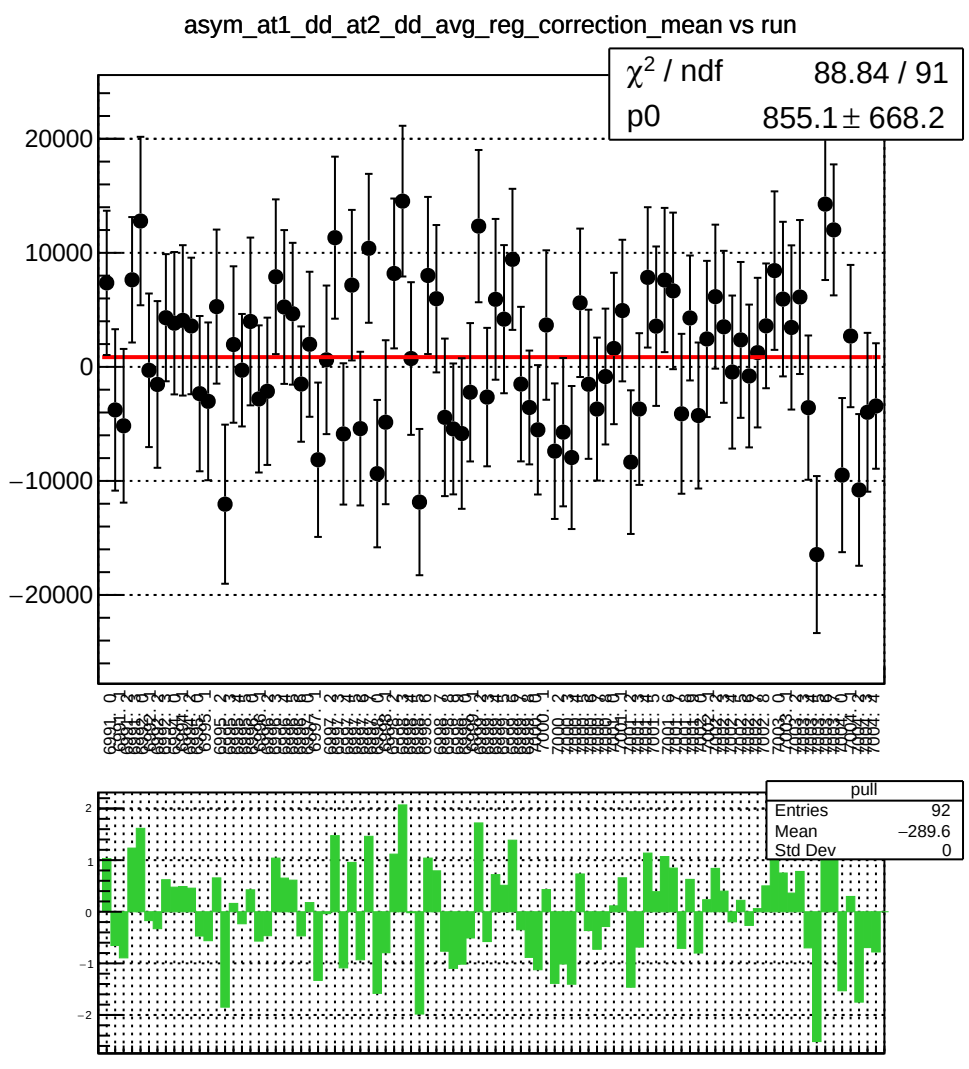

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 88.22 / 91
p0 6.2e−16 ± 6.194e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean 384.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0162
Std Dev 0.9791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

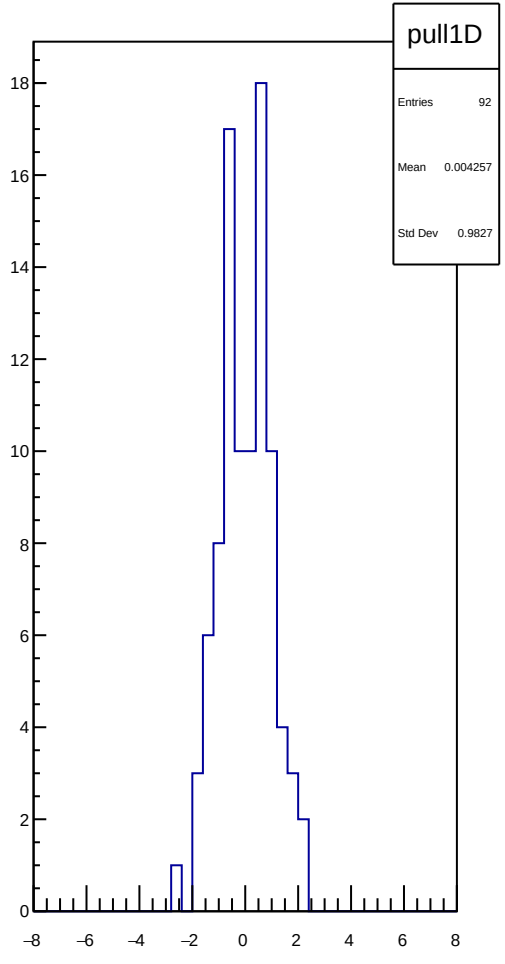

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.717e+05 / 91
p0 4.982e−12 ± 4.38e−15
35
30
25
20
15
10
5

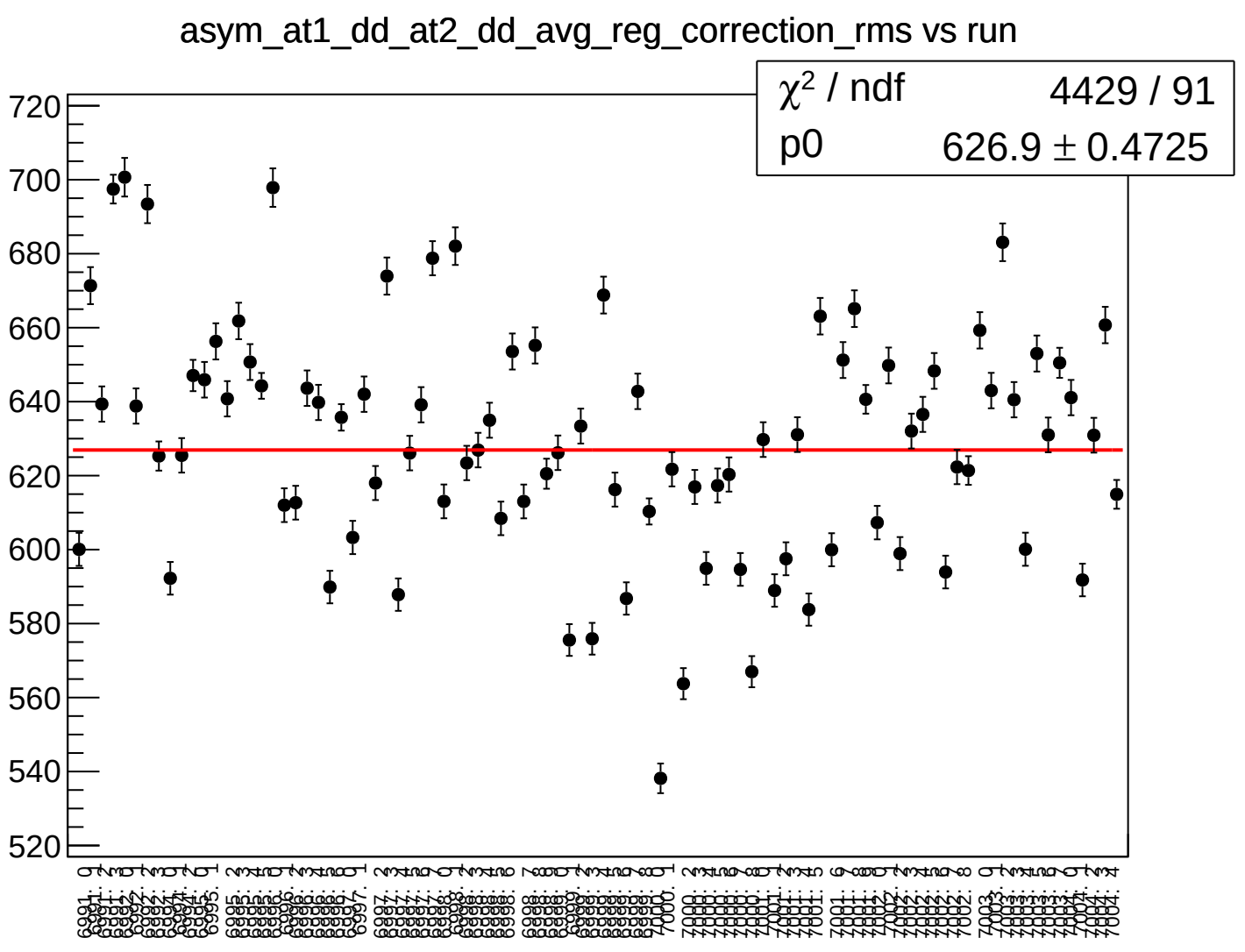

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 100.6 / 91
p0 −664.7 ± 1360
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 379.2
Std Dev 0
2
1
0
−1
−2
−3

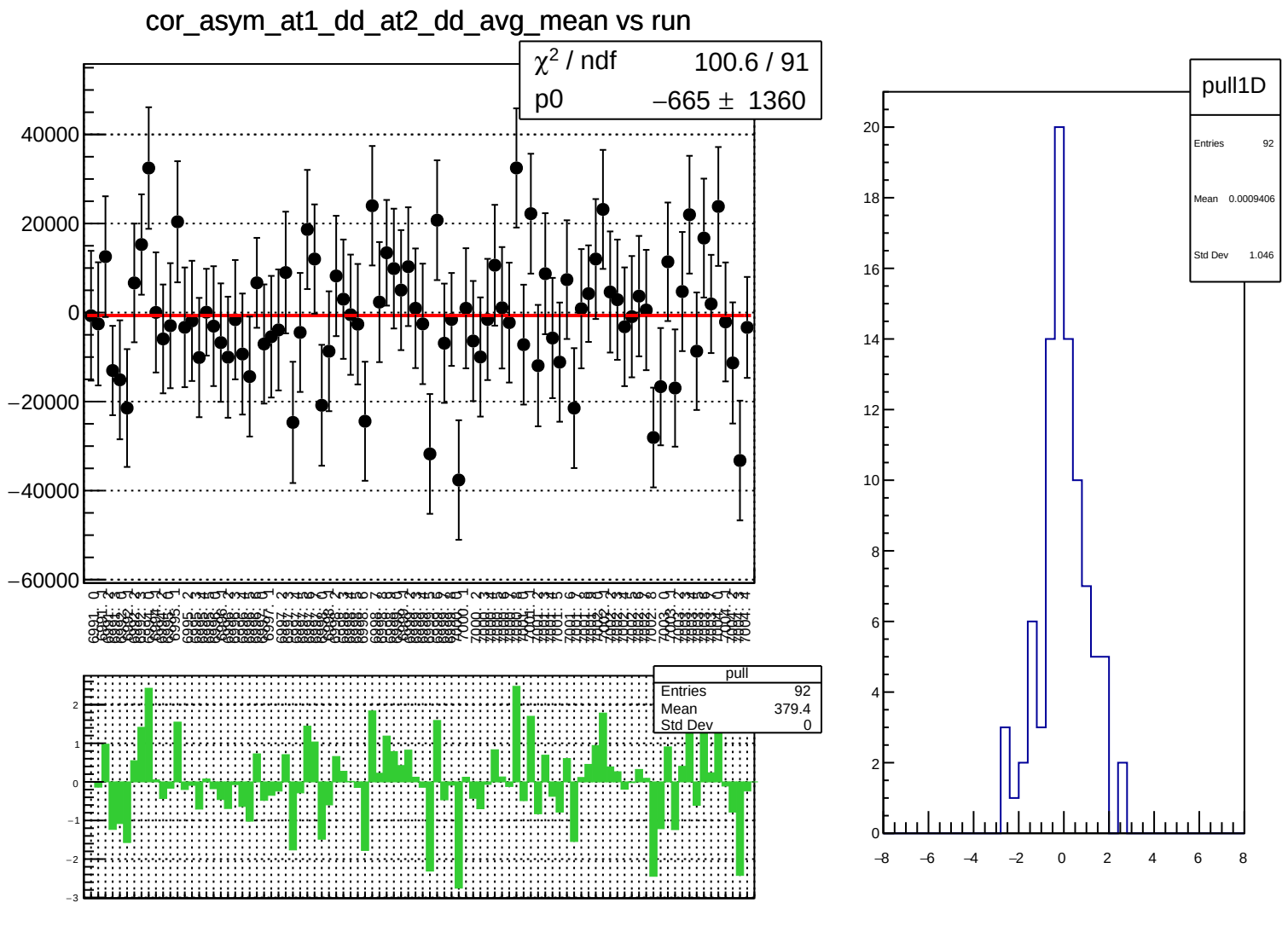

pull1D
Entries 92
Mean 0.0009422
Std Dev 1.046
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

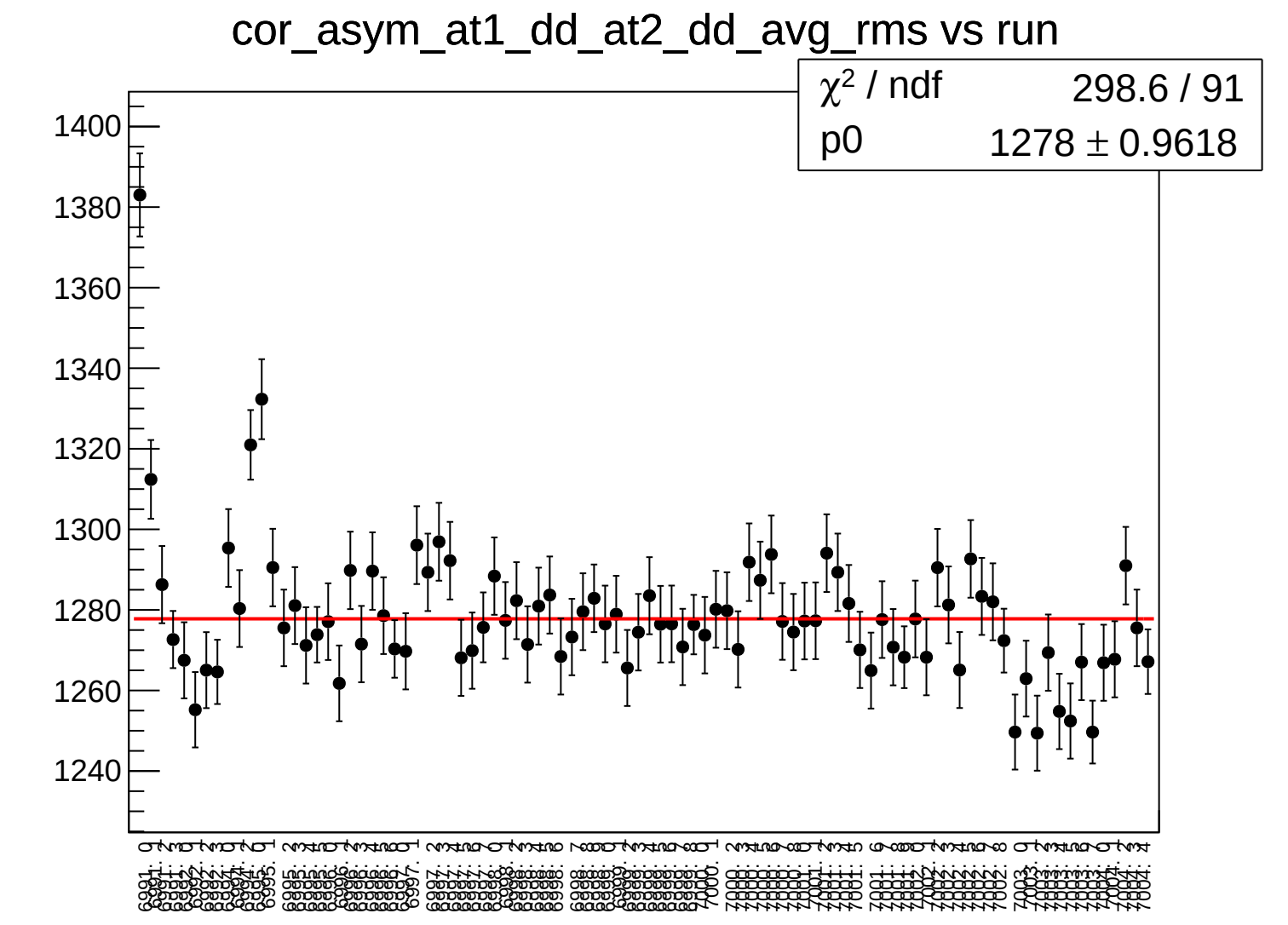

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 298.6 / 91
p0 1278 ± 0.9618
1400
1380
1360
1340
1320
1300
1280
1260
1240

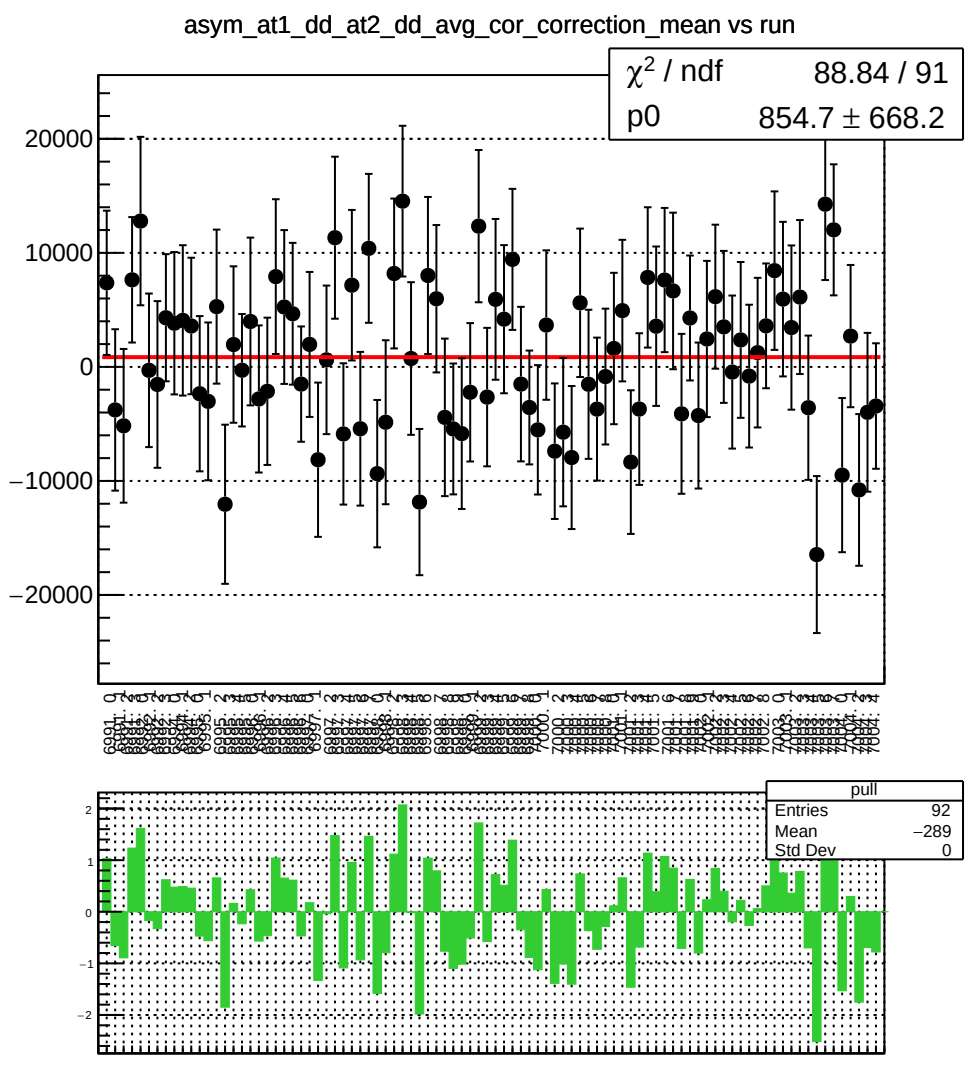

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 88.84 / 91
p0 855.1 ± 668.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −289.6
Std Dev 0
2
1
0
−1
−2

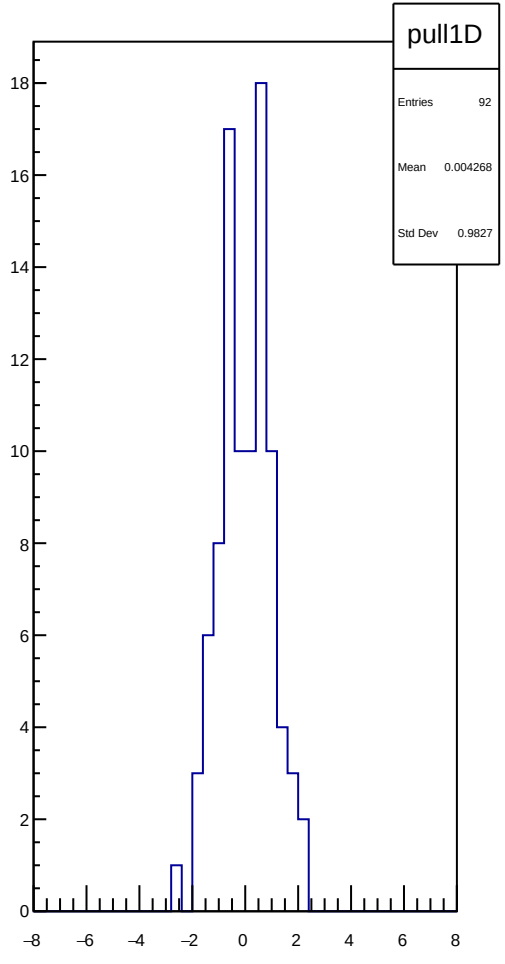

pull1D
Entries 92
Mean 0.004257
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

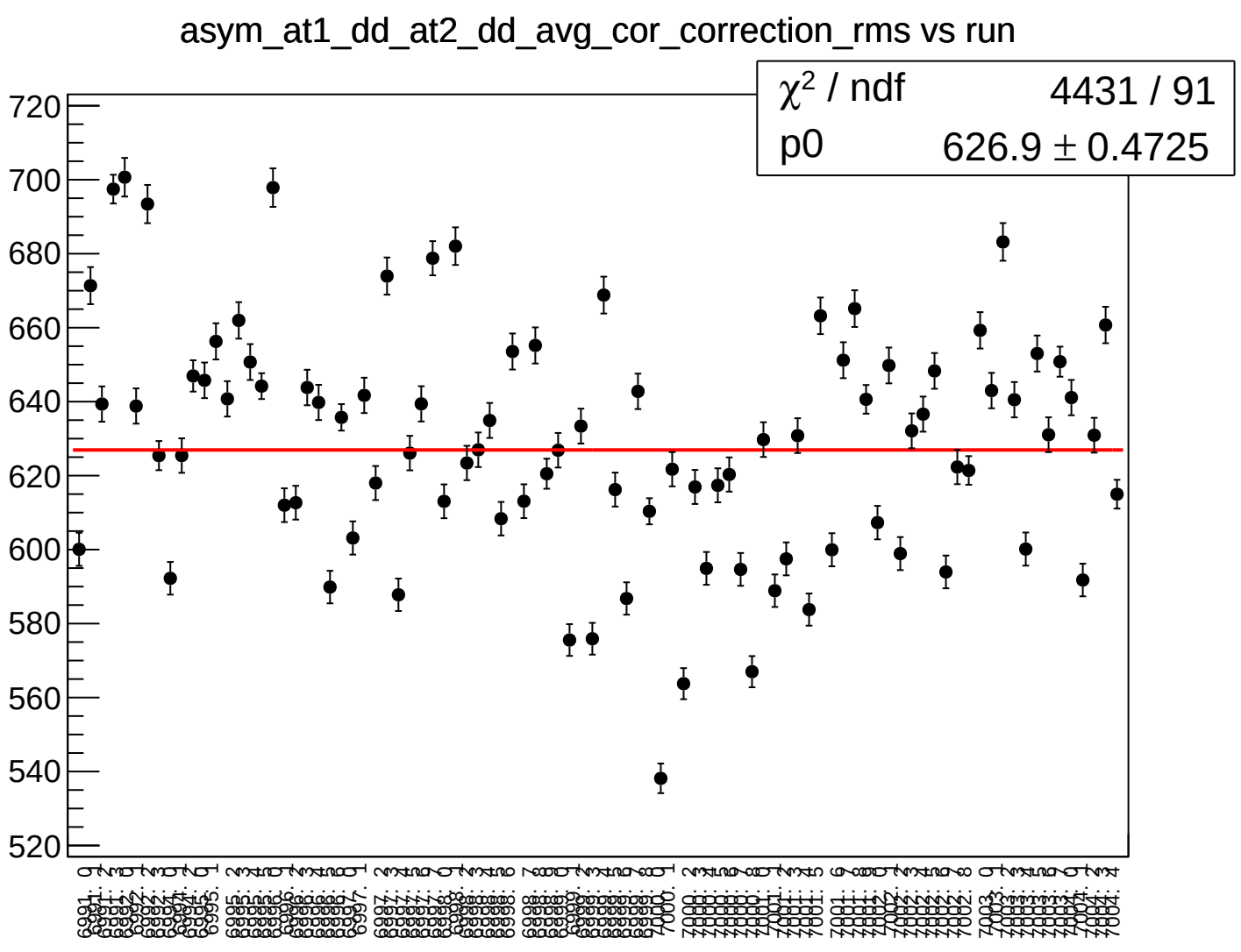

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 4429 / 91
p0 626.9 ± 0.4725
720
700
680
660
640
620
600
580
560
540
520

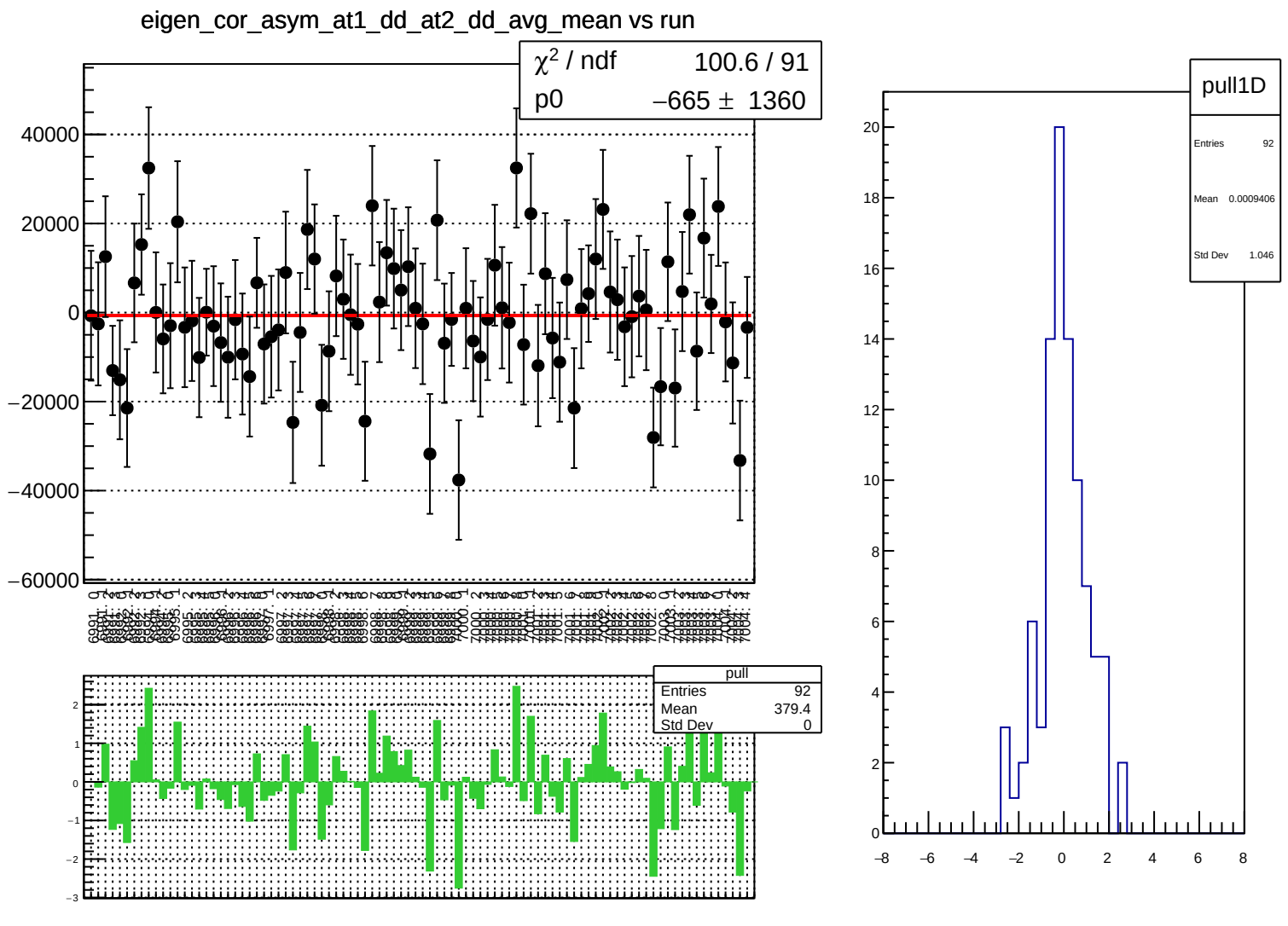

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 100.6 / 91
p0 −665 ± 1360
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 379.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0009406
Std Dev 1.046
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

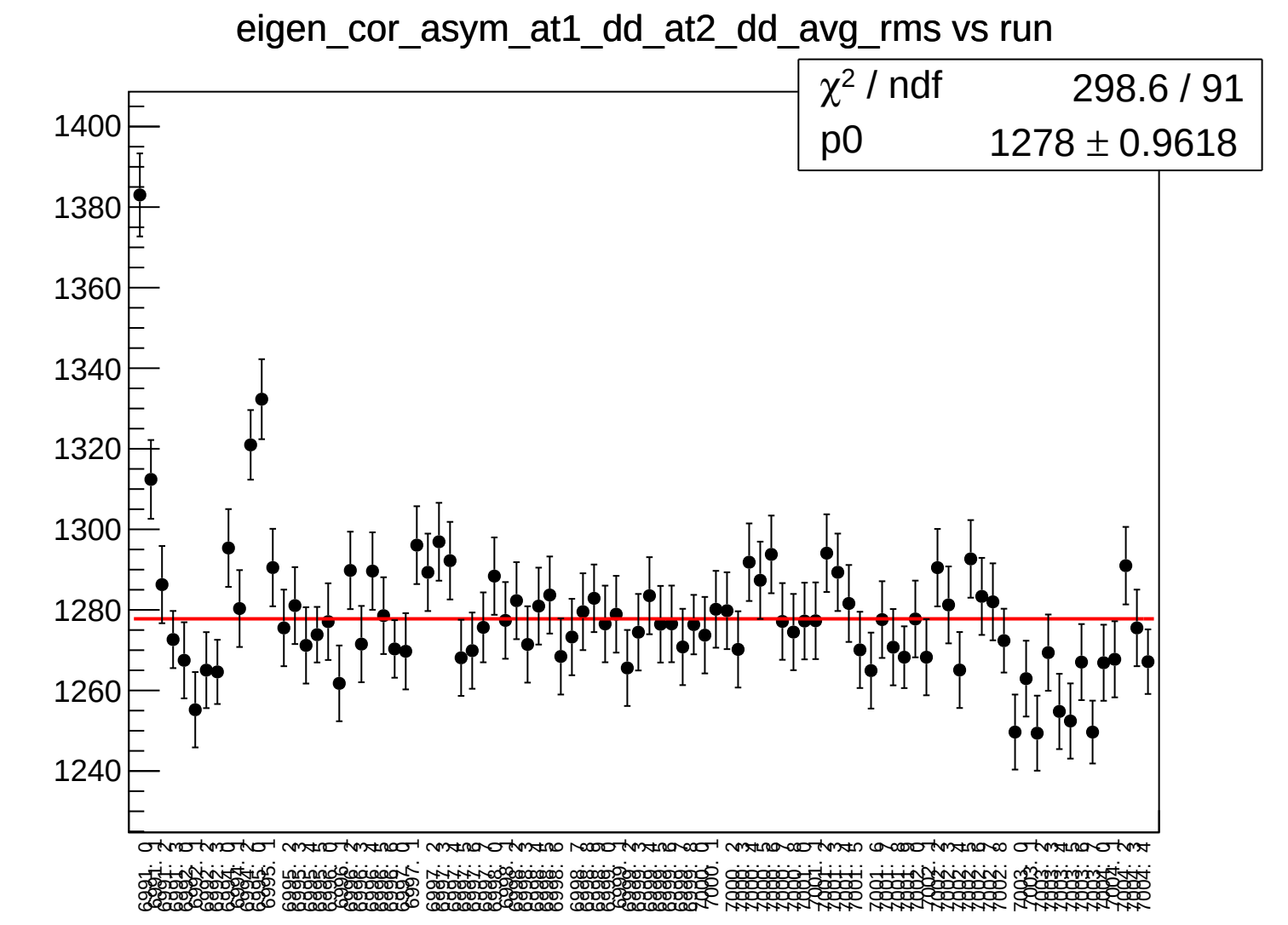

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 298.6 / 91
p0 1278 ± 0.9618
1400
1380
1360
1340
1320
1300
1280
1260
1240

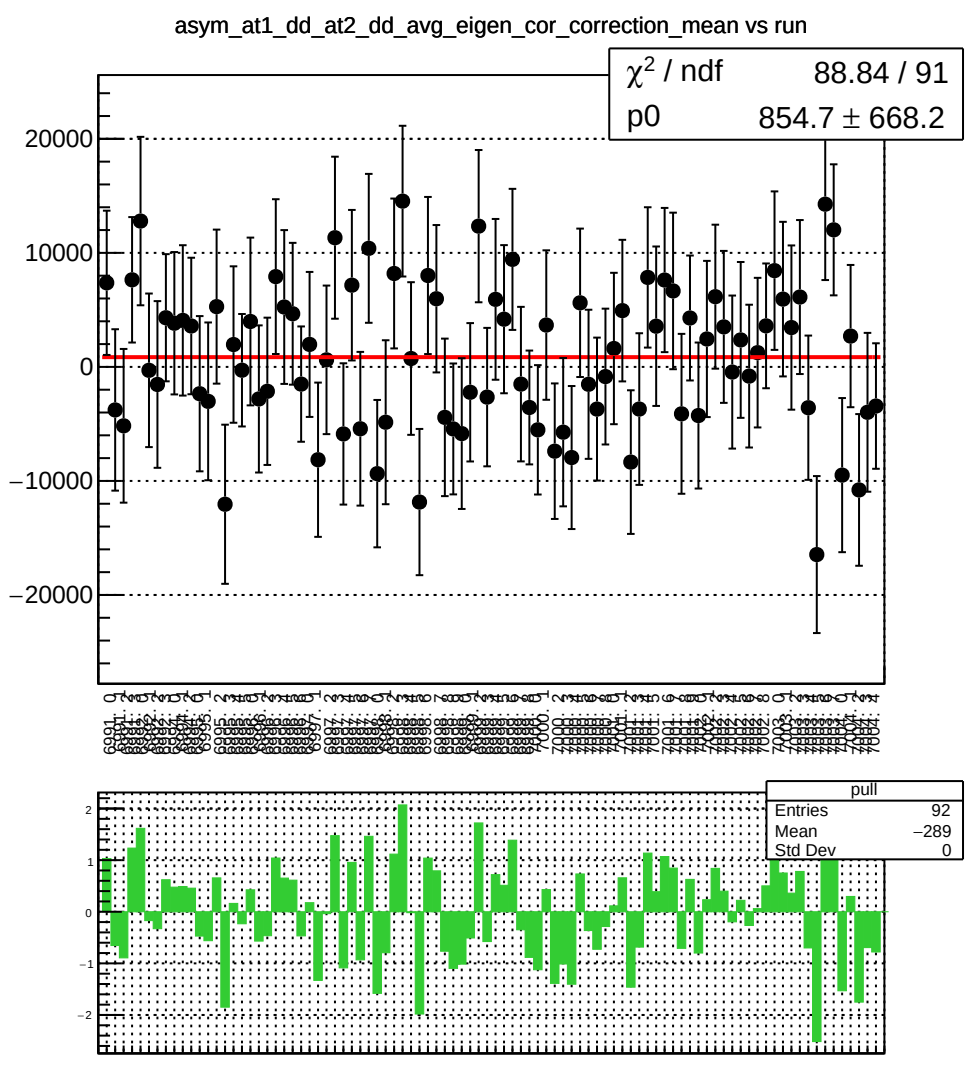

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 88.84 / 91
p0 854.7 ± 668.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −289
Std Dev 0
2
1
0
−1
−2

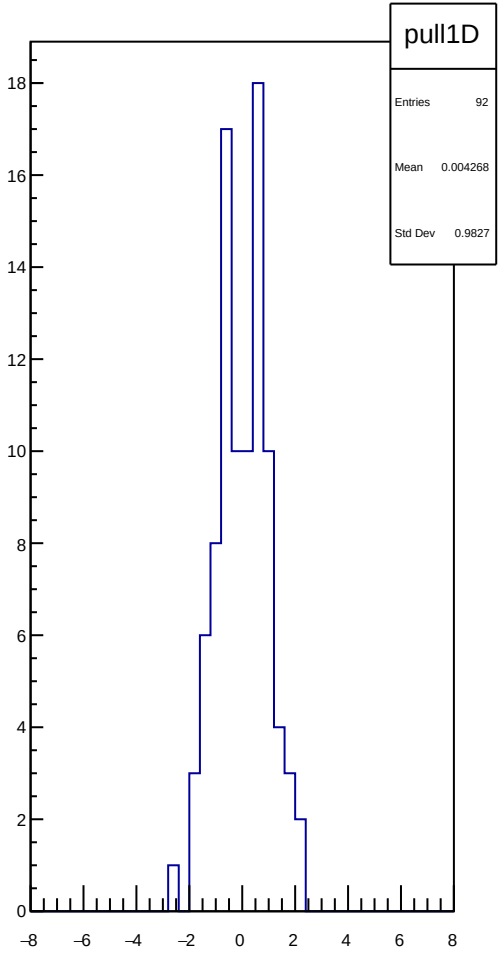

pull1D
Entries 92
Mean 0.004268
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

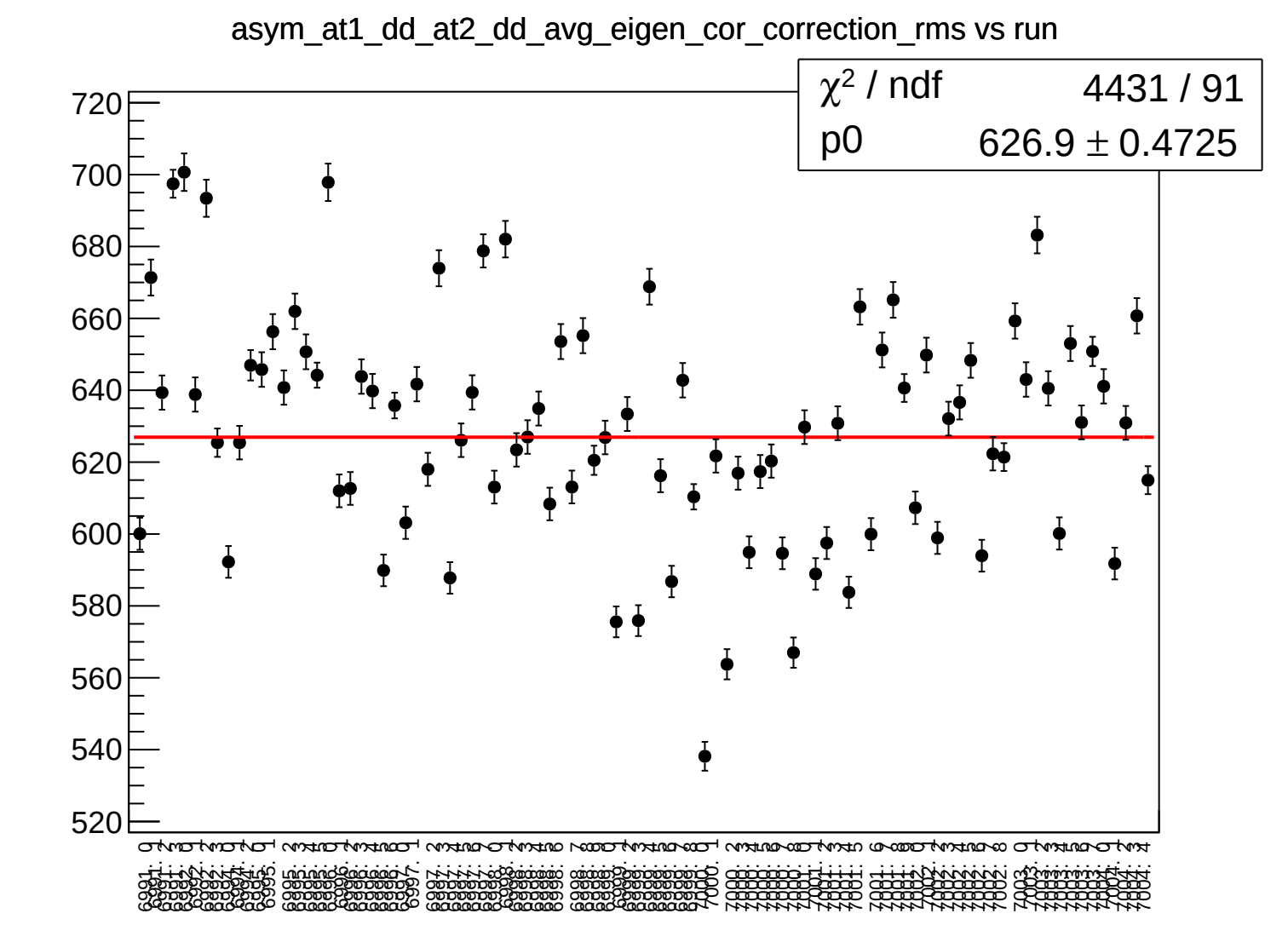

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 4431 / 91
p0 626.9 ± 0.4725
720
700
680
660
640
620
600
580
560
540
520

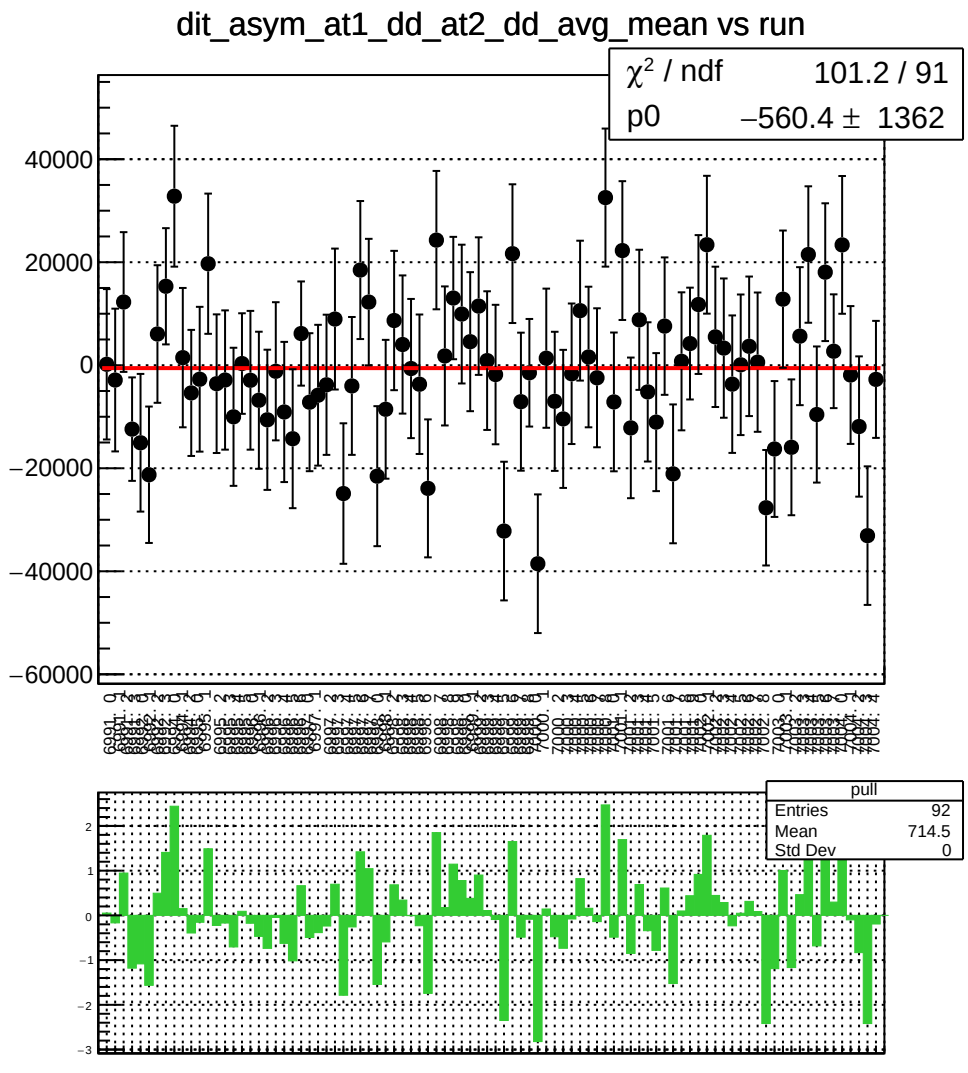

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 100.6 / 91
p0 −665 ± 1360
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 379.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0009406
Std Dev 1.046
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

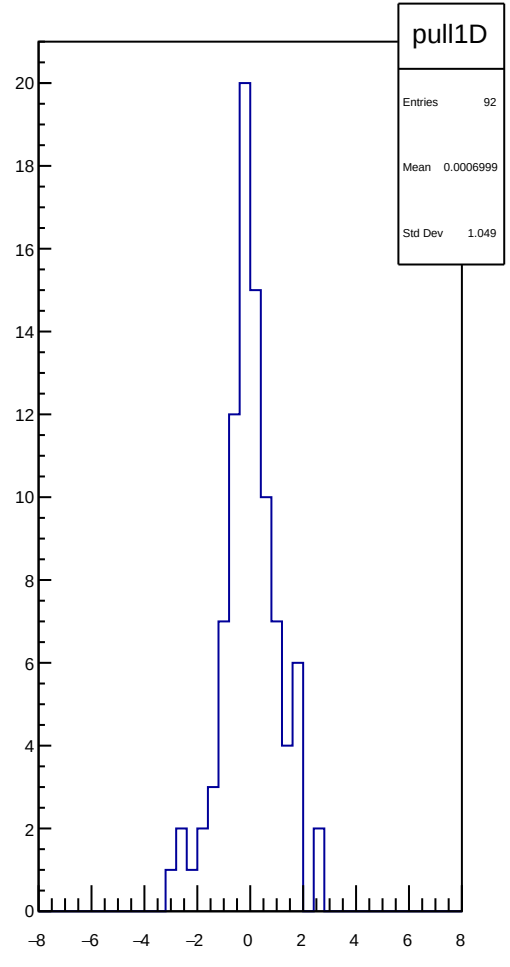

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 298.6 / 91
p0 1278 ± 0.9618
1400
1380
1360
1340
1320
1300
1280
1260
1240

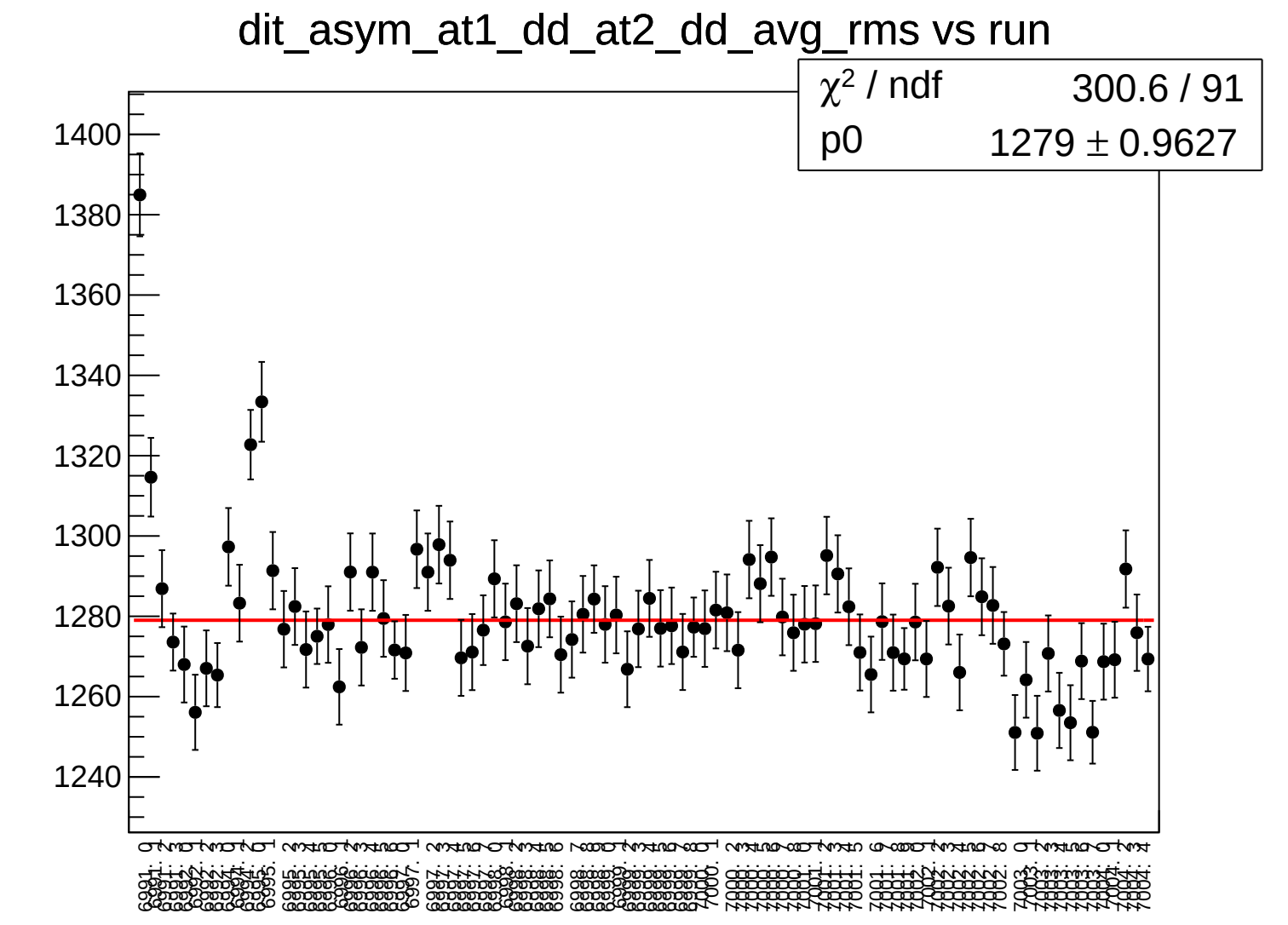

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.84 / 91
p0 854.7 ± 668.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −289
Std Dev 0
2
1
0
−1
−2

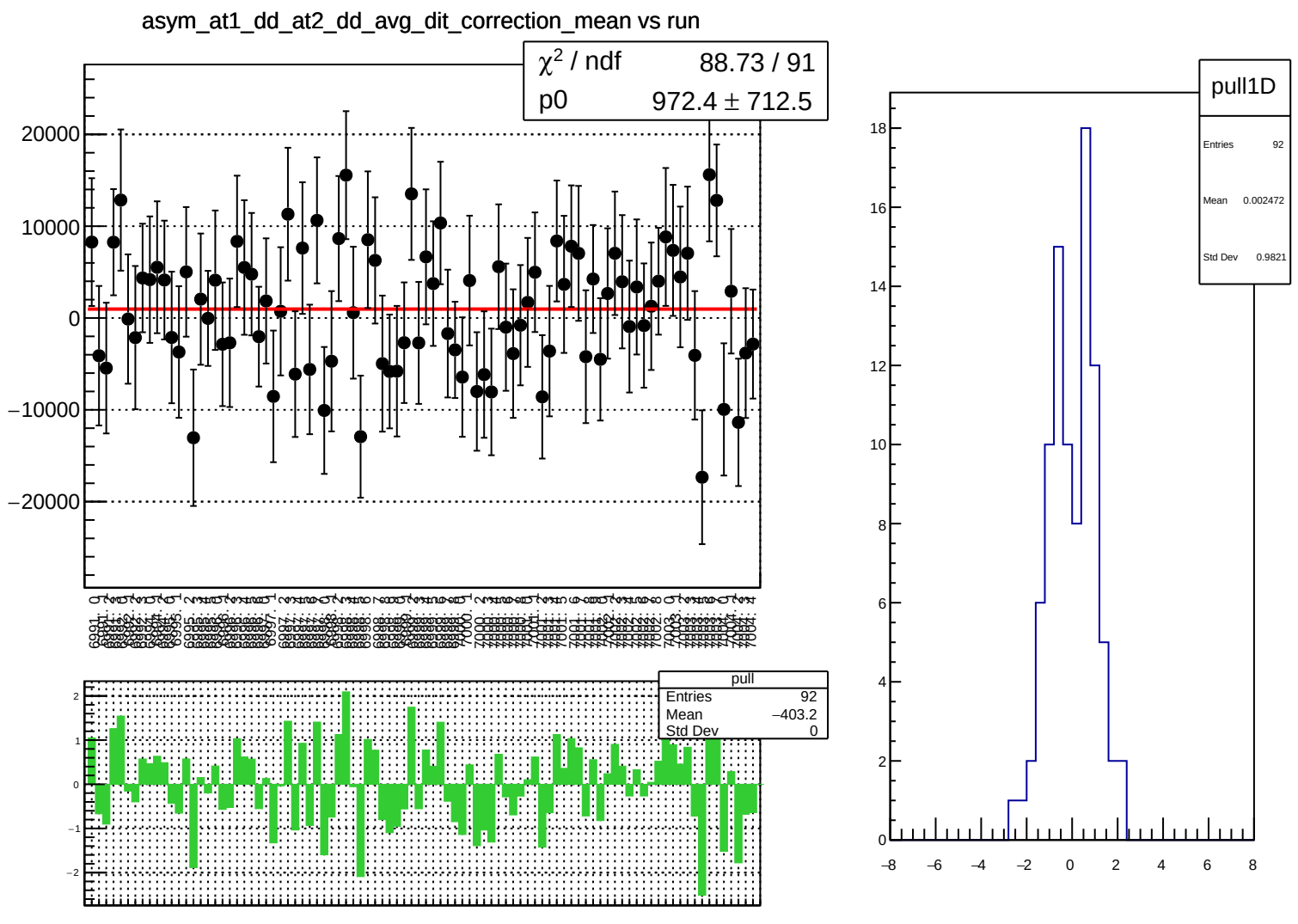

pull1D
Entries 92
Mean 0.004268
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

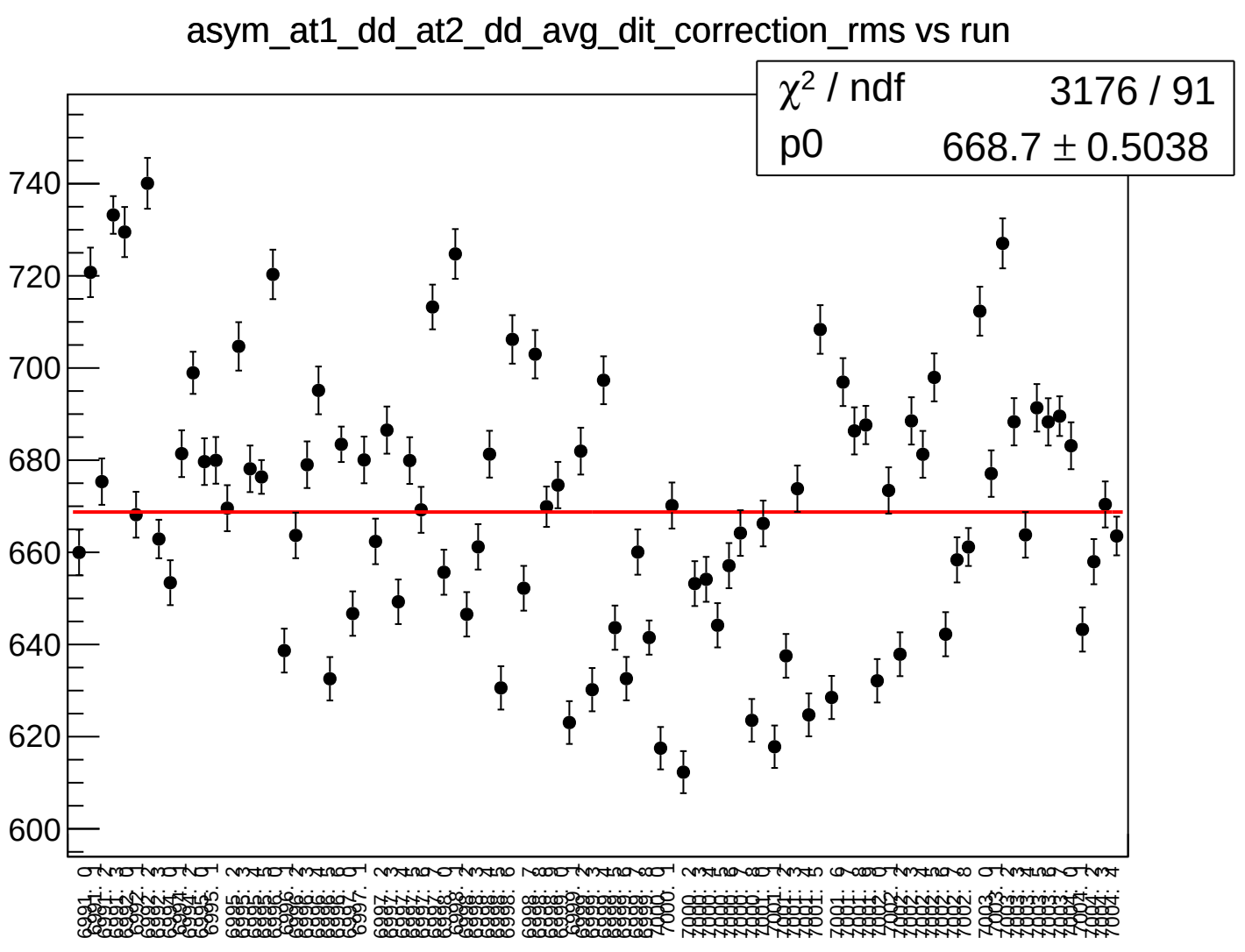

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4431 / 91
p0 626.9 ± 0.4725
720
700
680
660
640
620
600
580
560
540
520

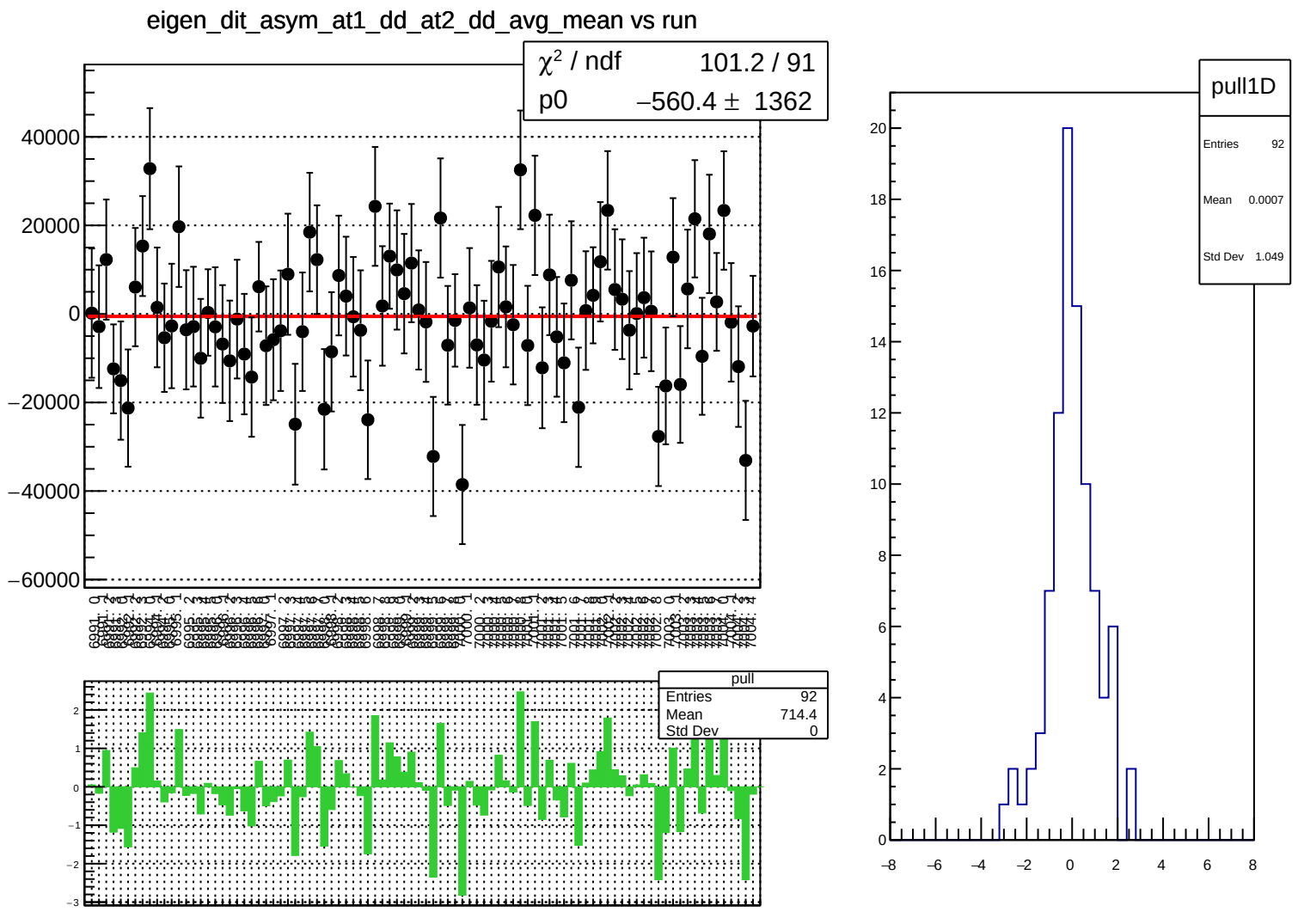

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 101.2 / 91
p0 −560.4 ± 1362
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 714.5
Std Dev 0
2
1
0
−1
−2
−3

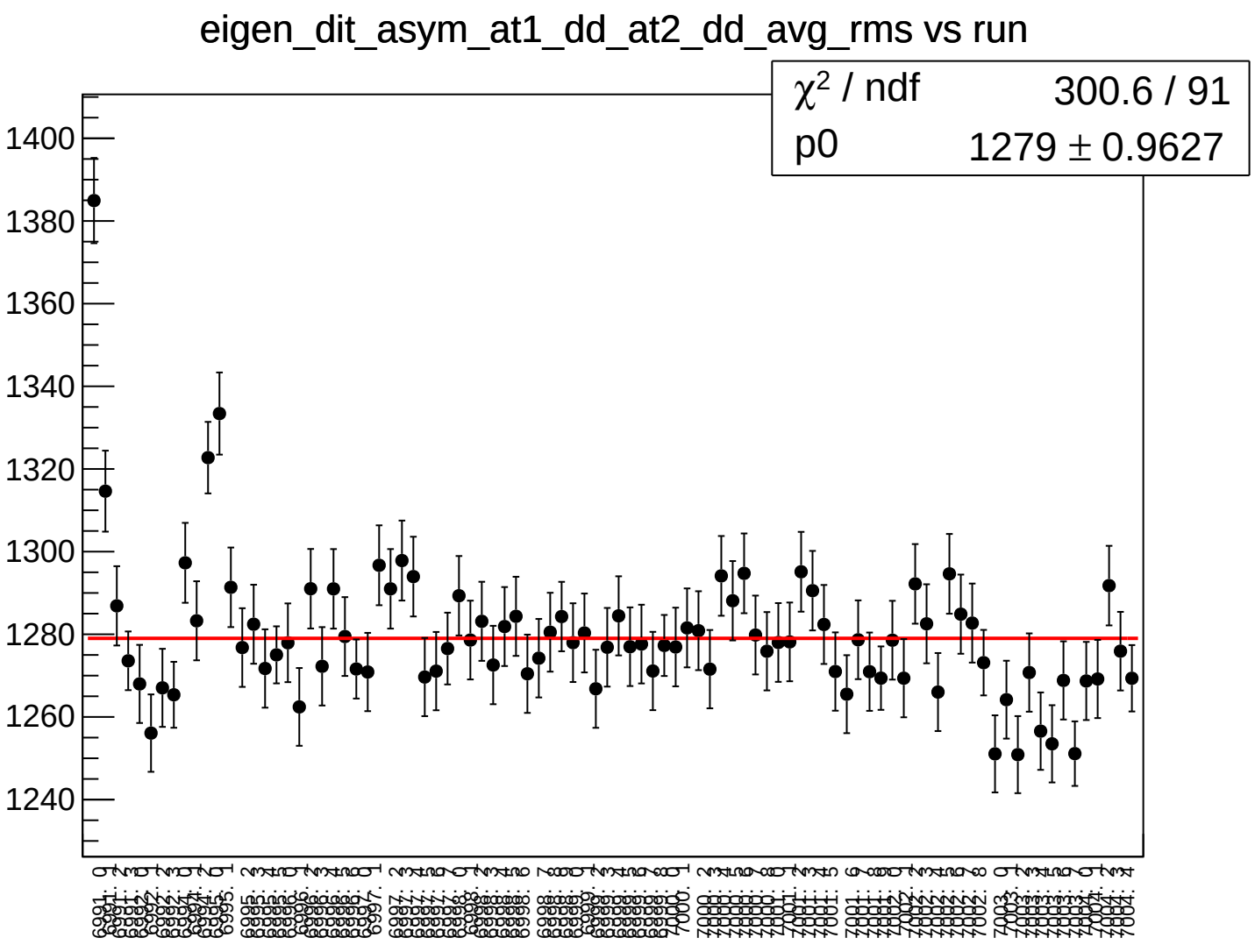

pull1D
Entries 92
Mean 0.0006999
Std Dev 1.049
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

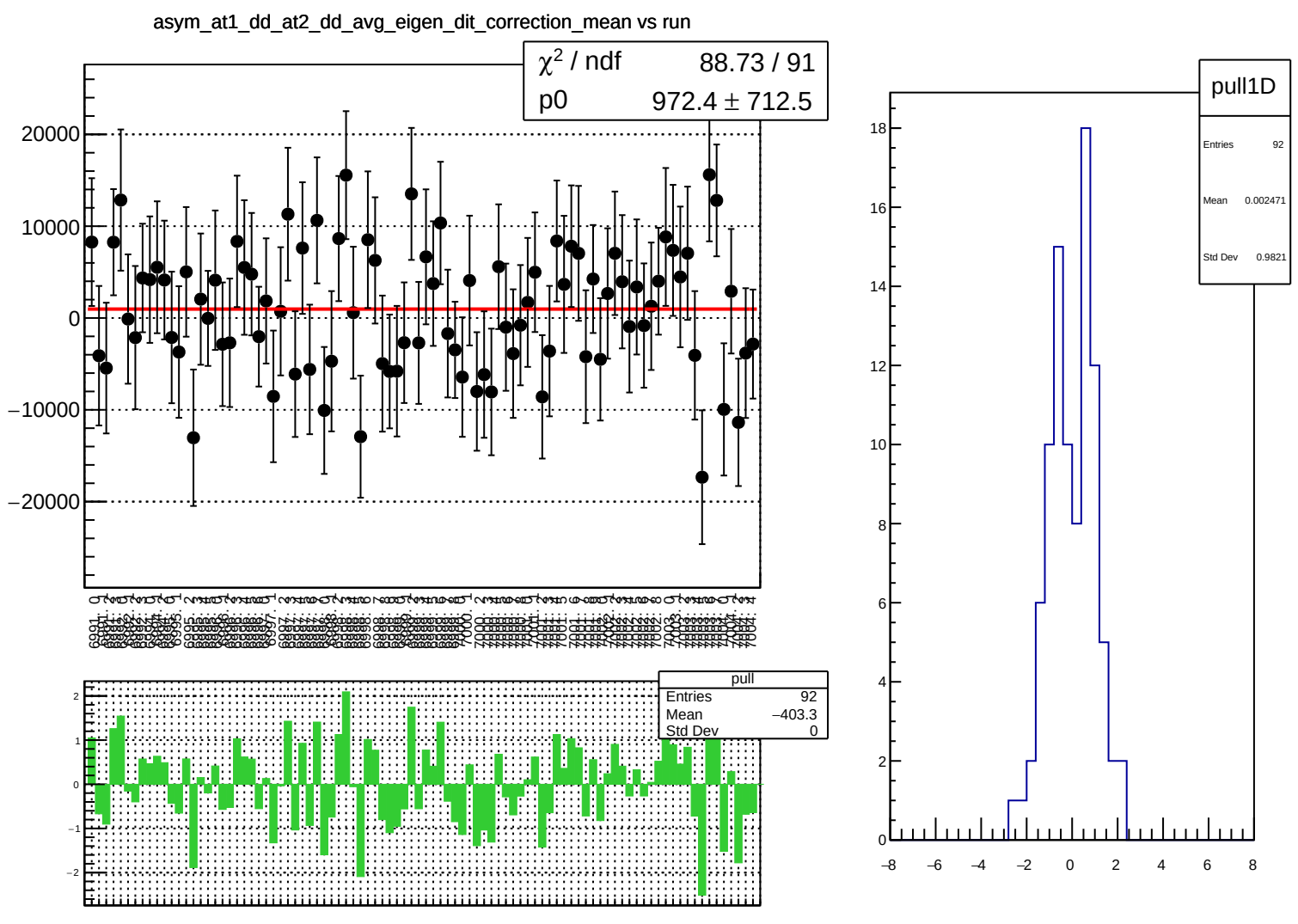

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 300.6 / 91
p0 1279 ± 0.9627
1400
1380
1360
1340
1320
1300
1280
1260
1240

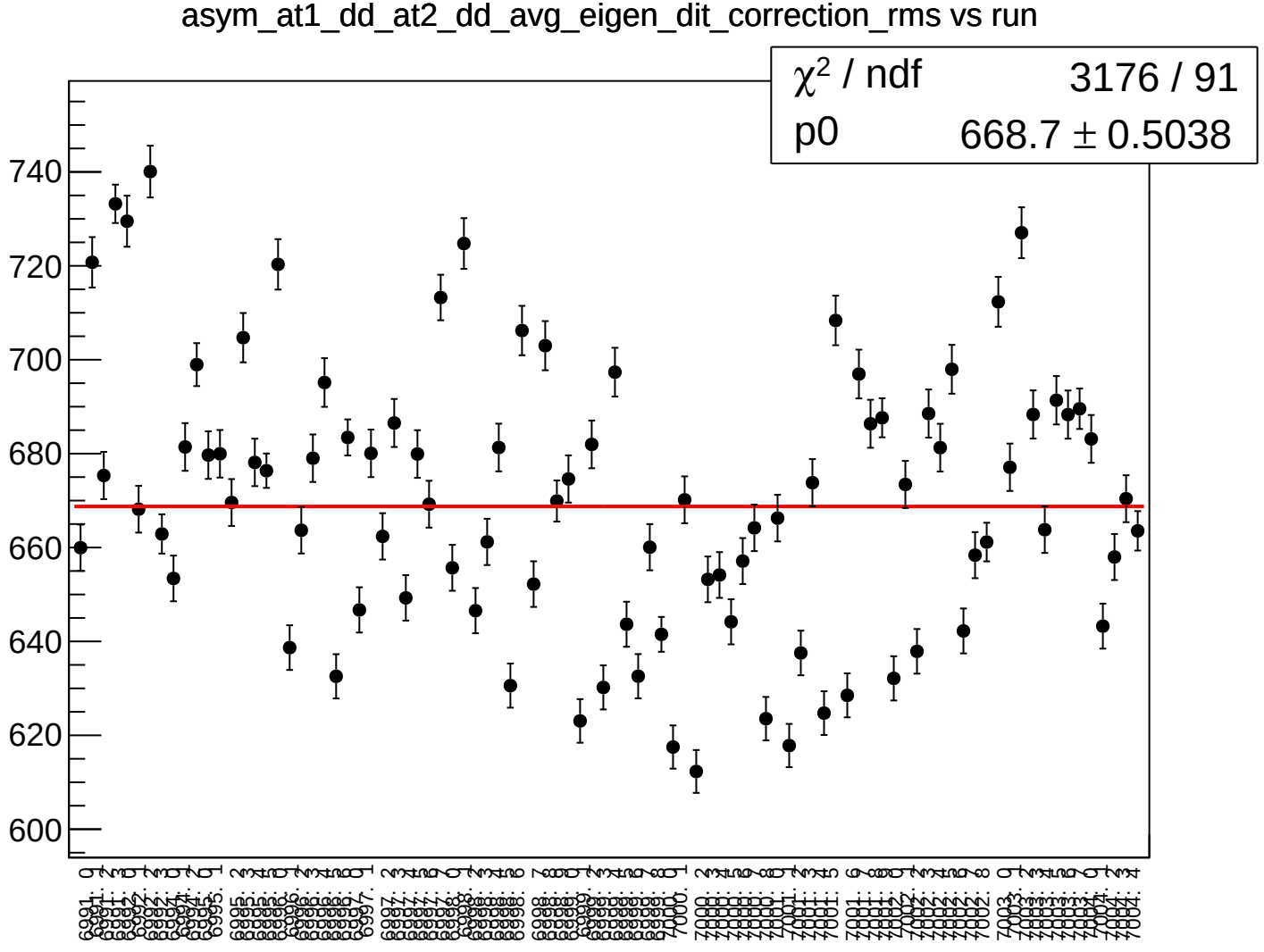

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 88.73 / 91
p0 972.4 ± 712.5
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −403.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002472
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

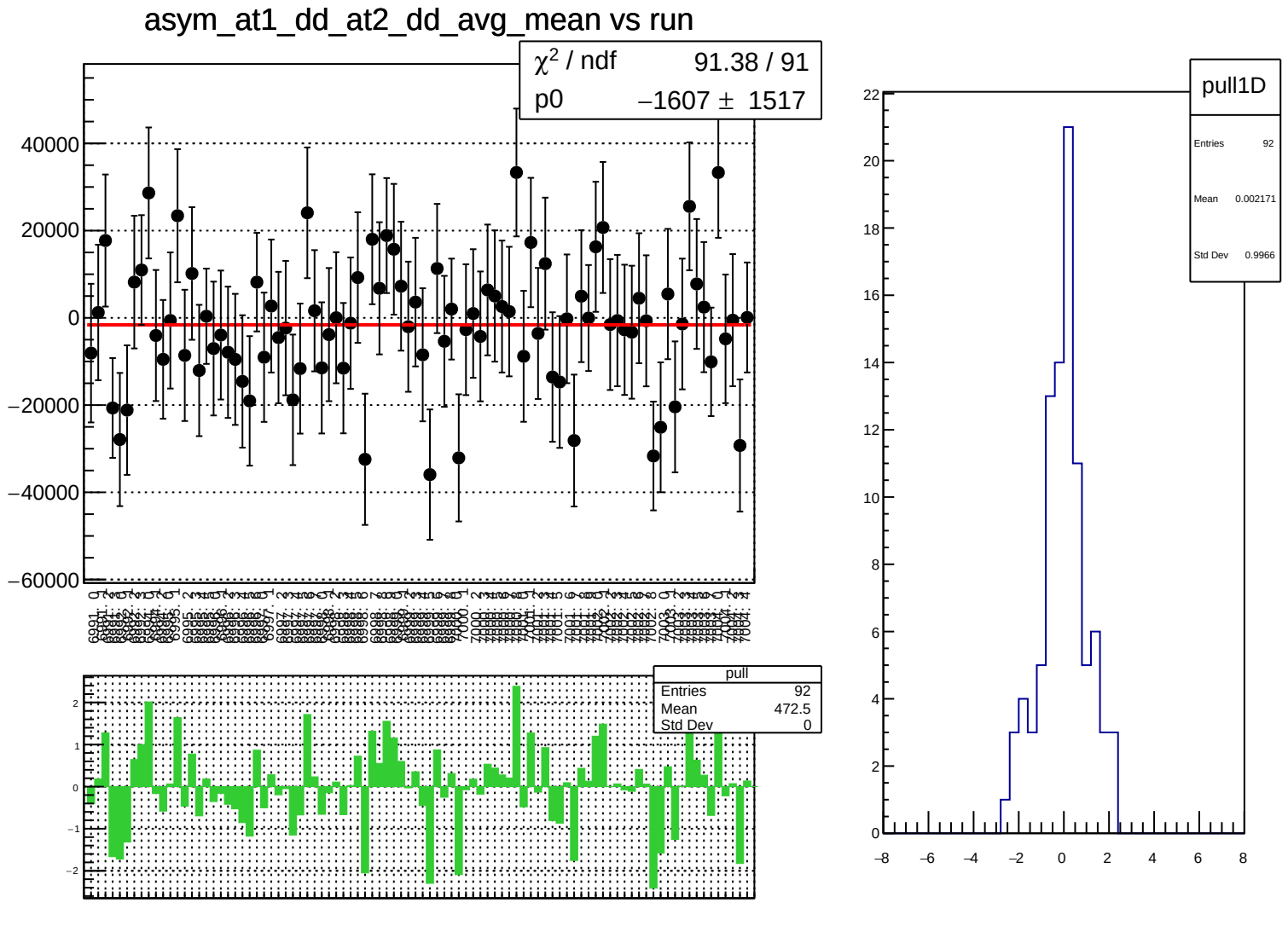

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3176 / 91
p0 668.7 ± 0.5038
740
720
700
680
660
640
620
600

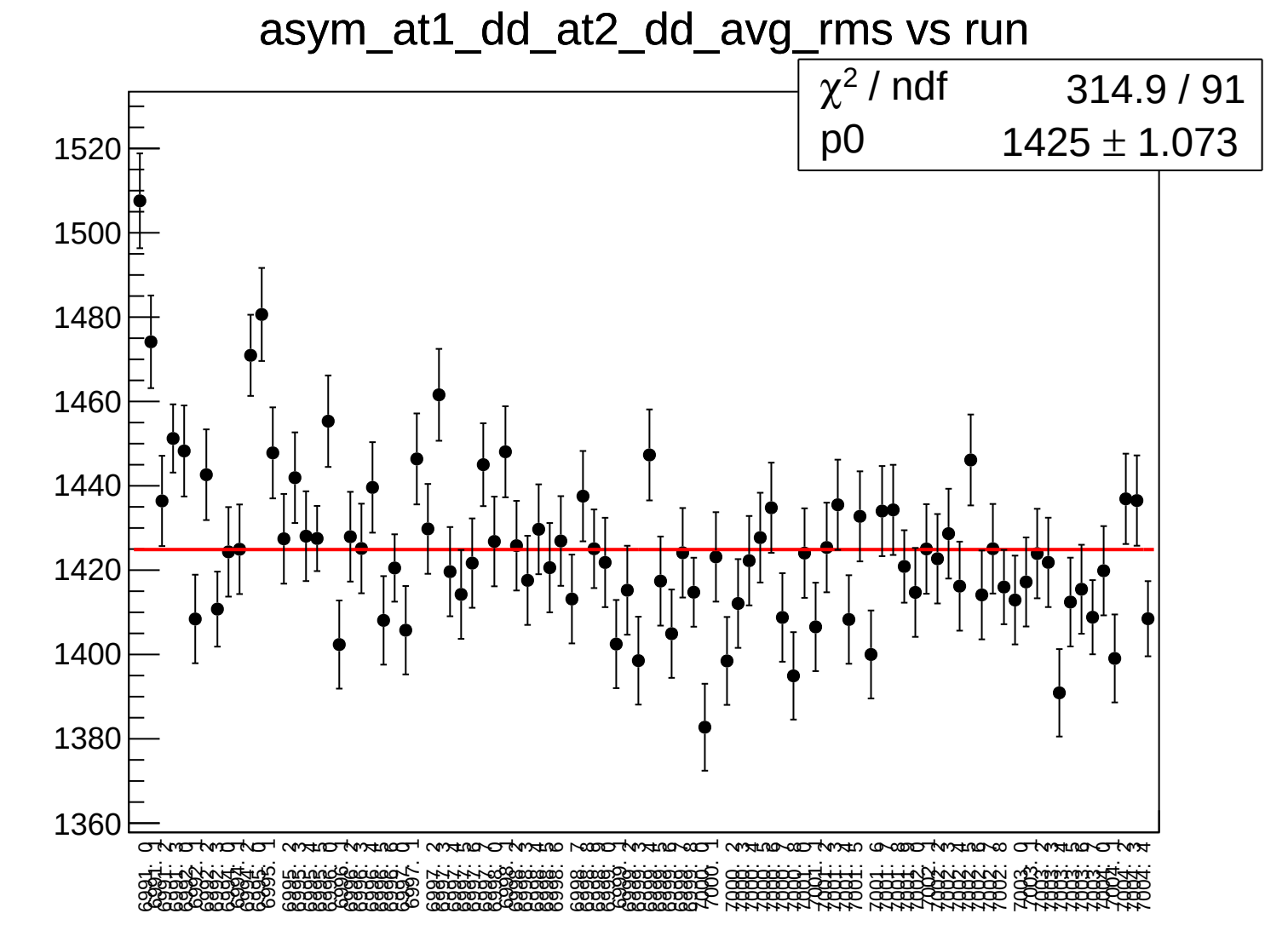

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 101.2 / 91
p0 −560.4 ± 1362
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 714.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0007
Std Dev 1.049
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

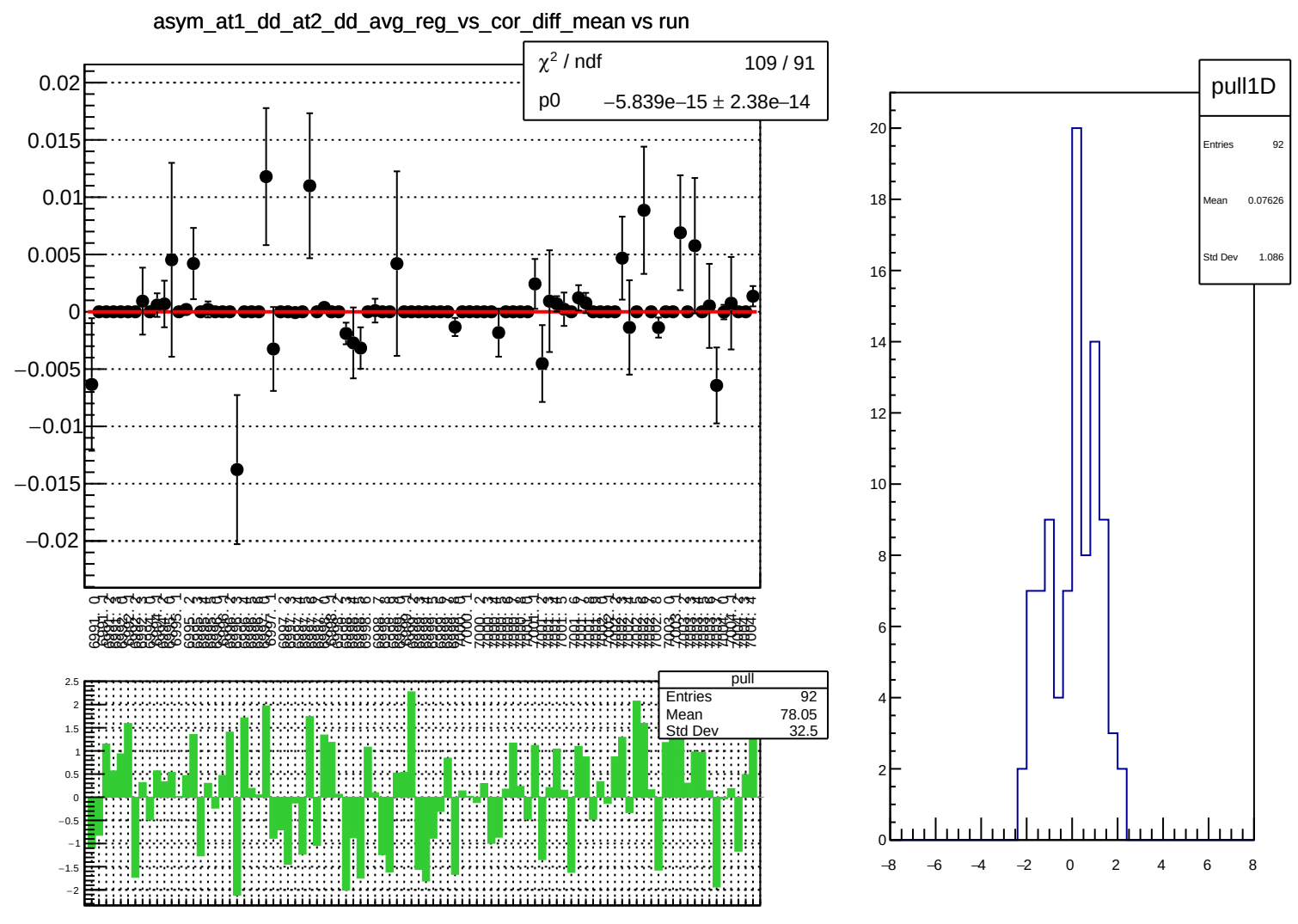

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 300.6 / 91
p0 1279 ± 0.9627
1400
1380
1360
1340
1320
1300
1280
1260
1240

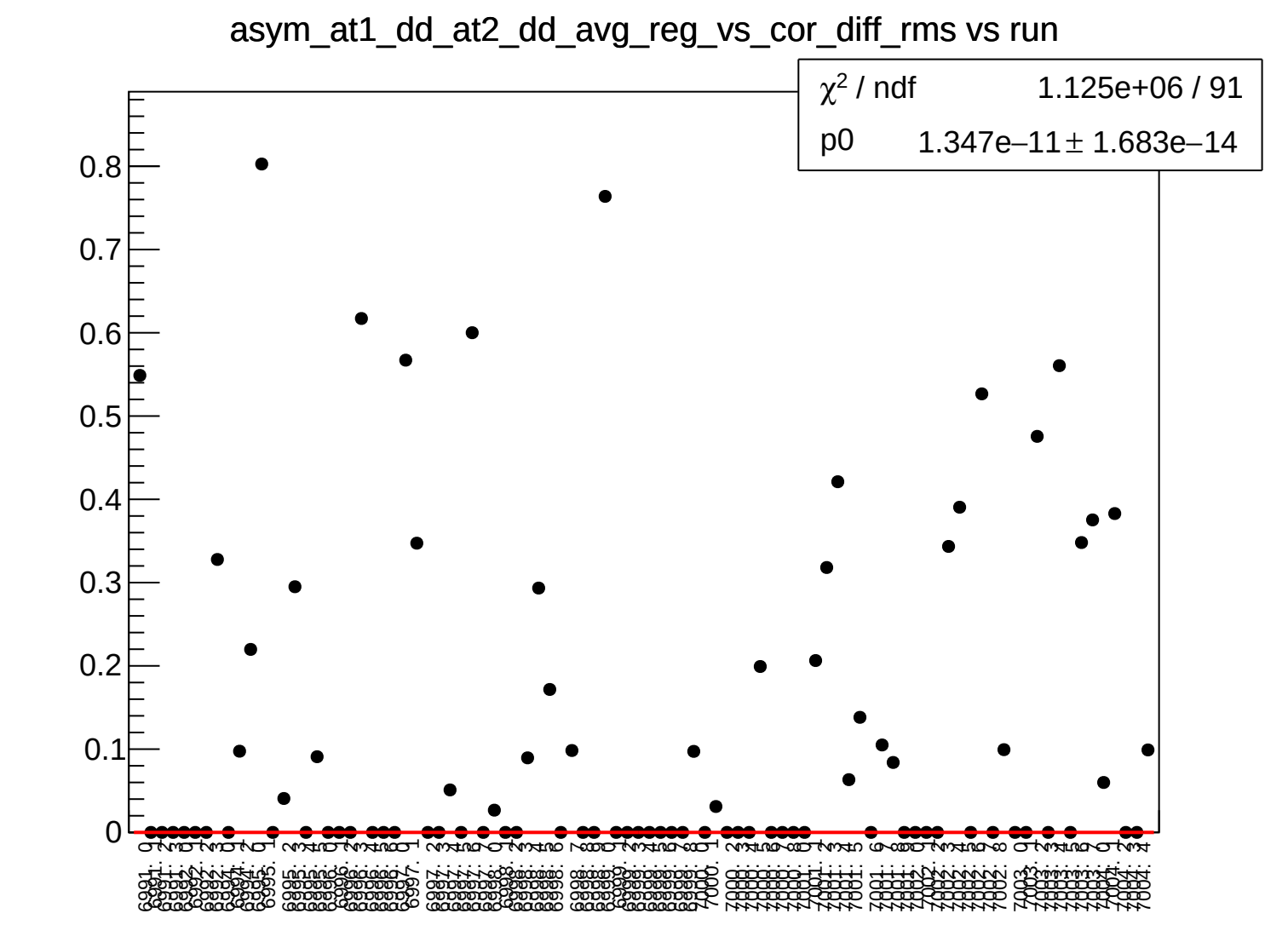

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.73 / 91
p0 972.4 ± 712.5
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −403.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002471
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

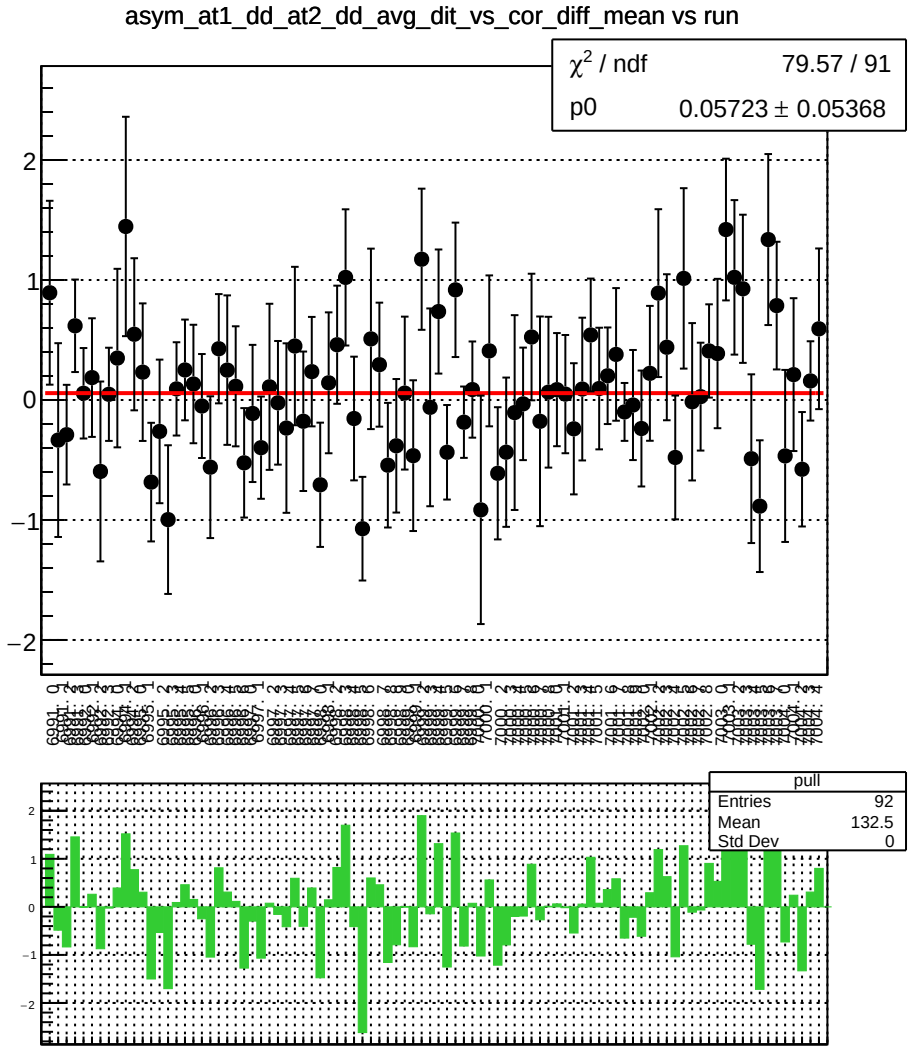

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3176 / 91
p0 668.7 ± 0.5038
740
720
700
680
660
640
620
600

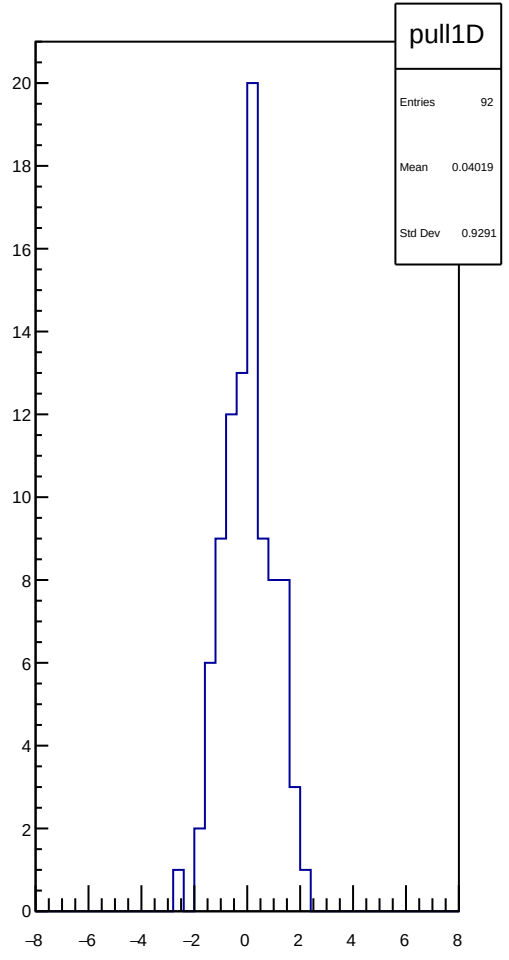

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 91.38 / 91
p0 −1607 ± 1517
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 472.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002171
Std Dev 0.9966
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

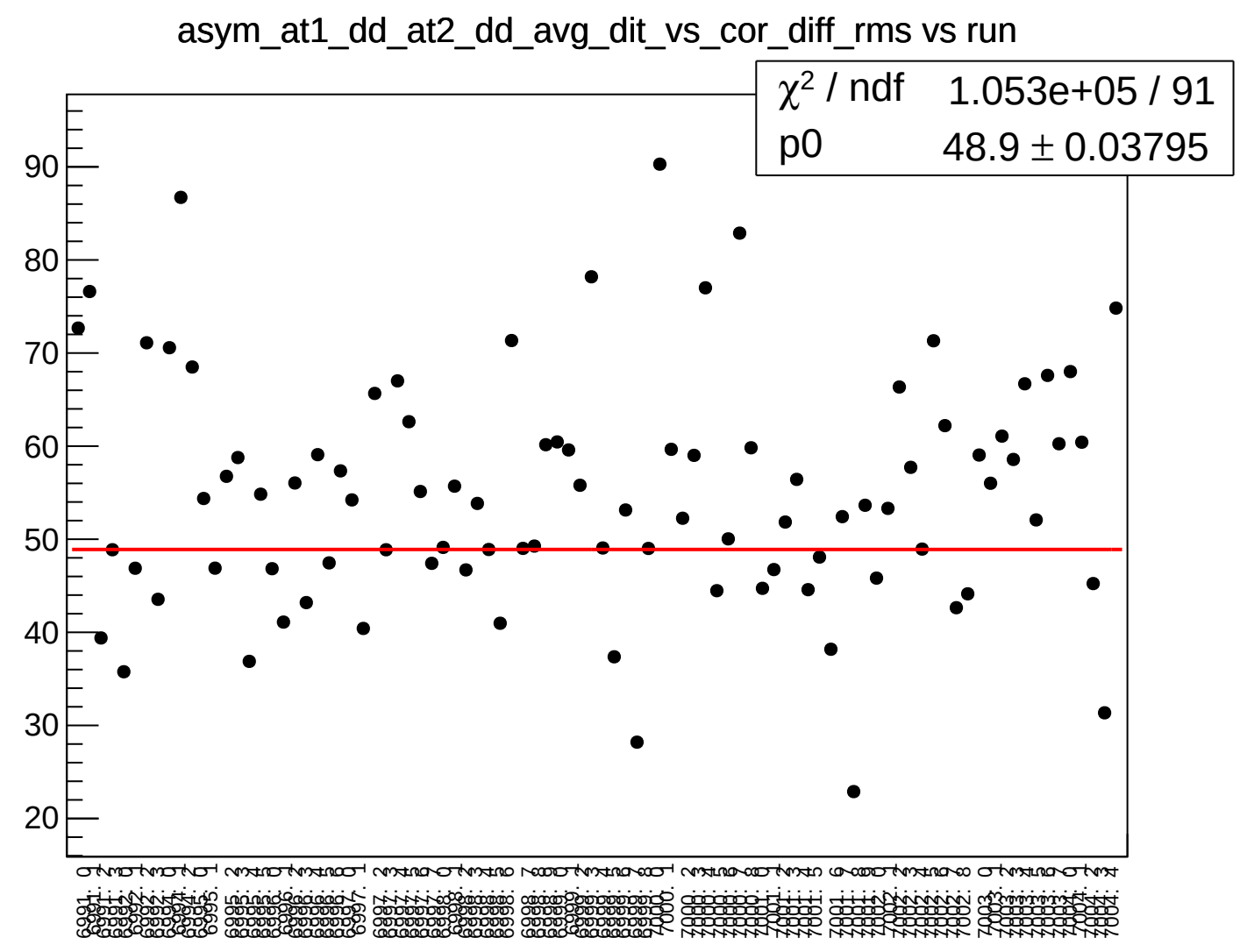

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 314.9 / 91
p0 1425 ± 1.073
1520
1500
1480
1460
1440
1420
1400
1380
1360

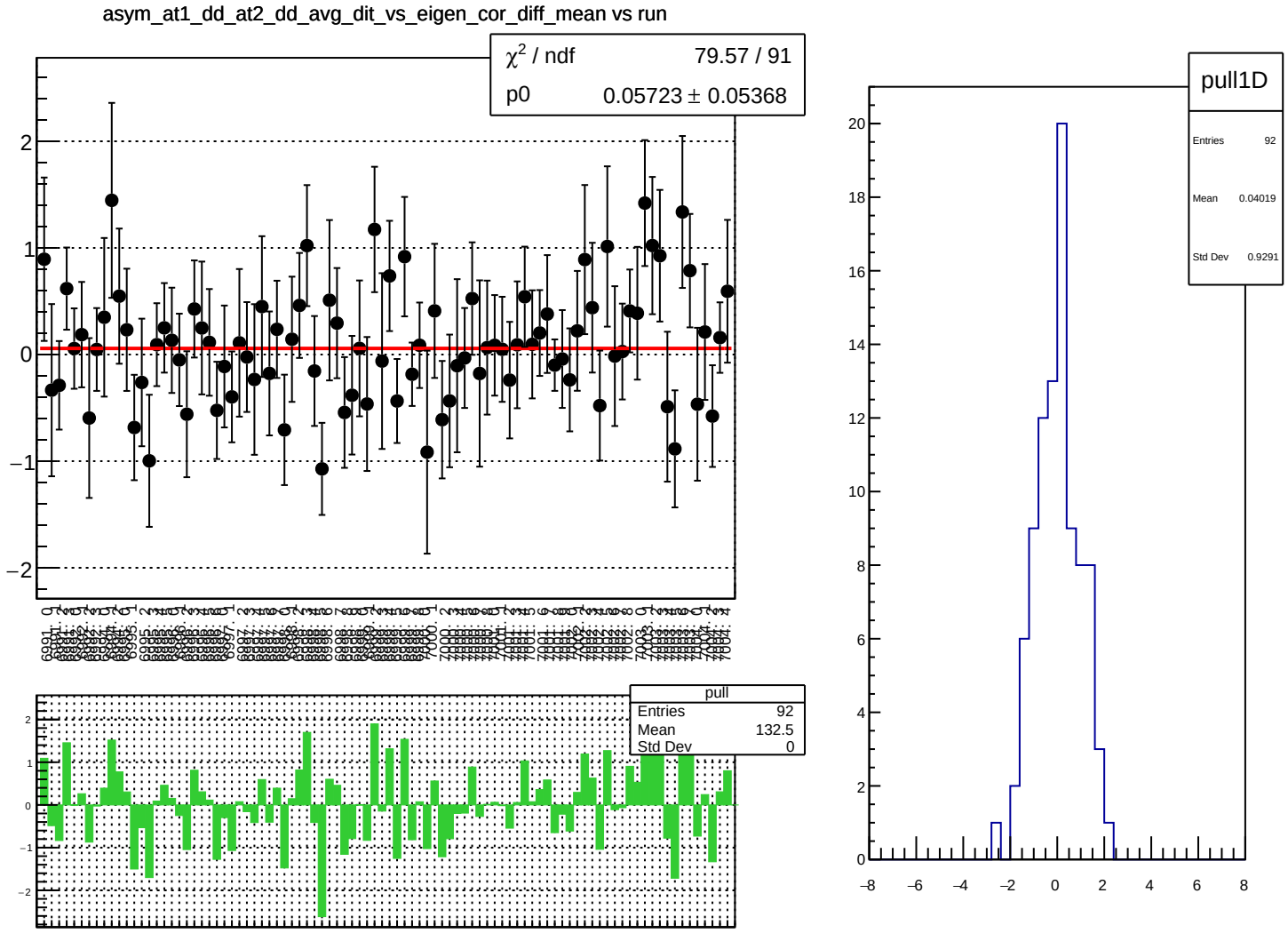

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109 / 91
p0 −5.839e−15 ± 2.38e−14
pull
Entries 92
Mean 78.05
Std Dev 32.5
pull1D
Entries 92
Mean 0.07626
Std Dev 1.086

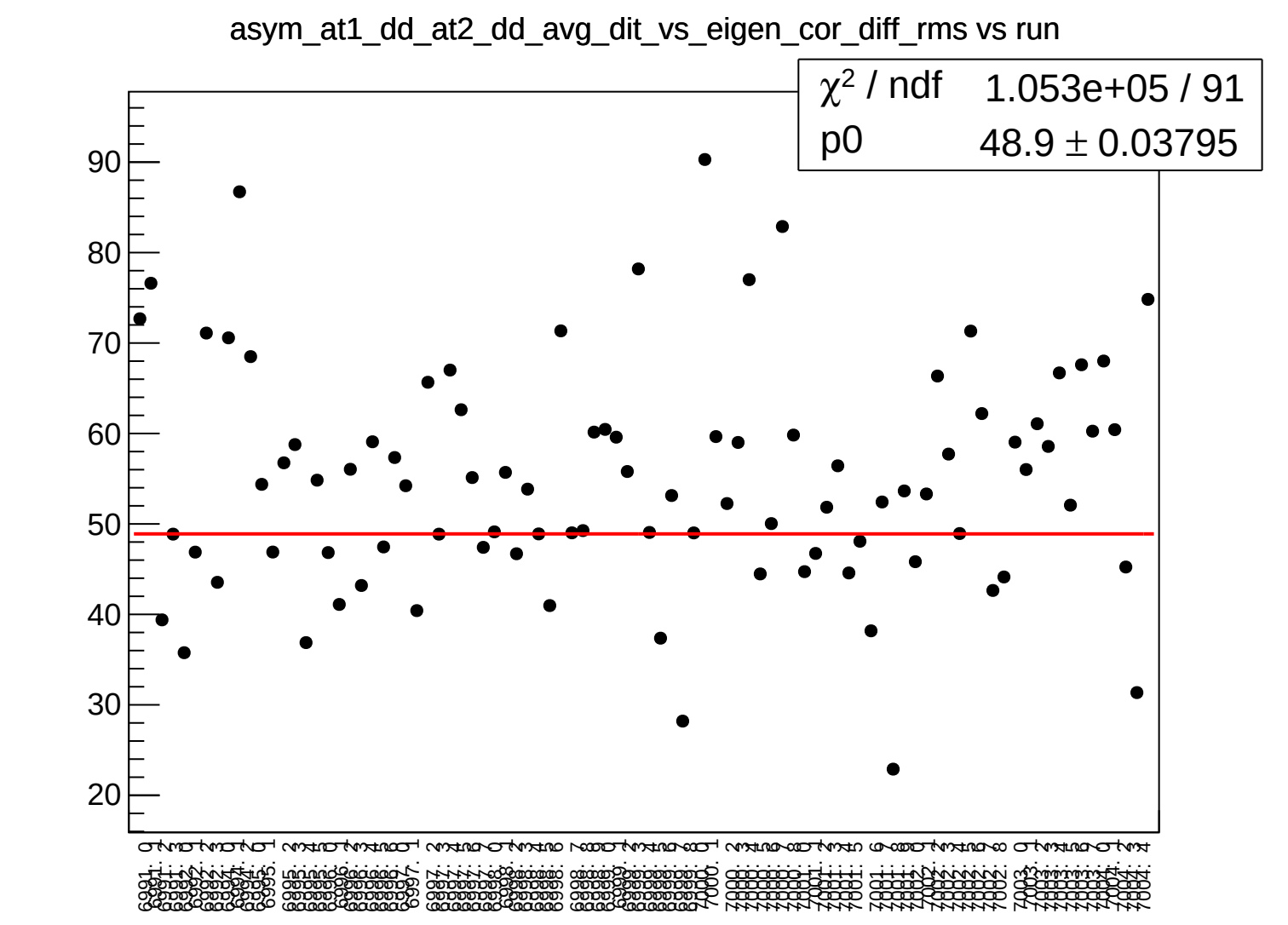

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.125e+06 / 91
p0 1.347e−11 ± 1.683e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

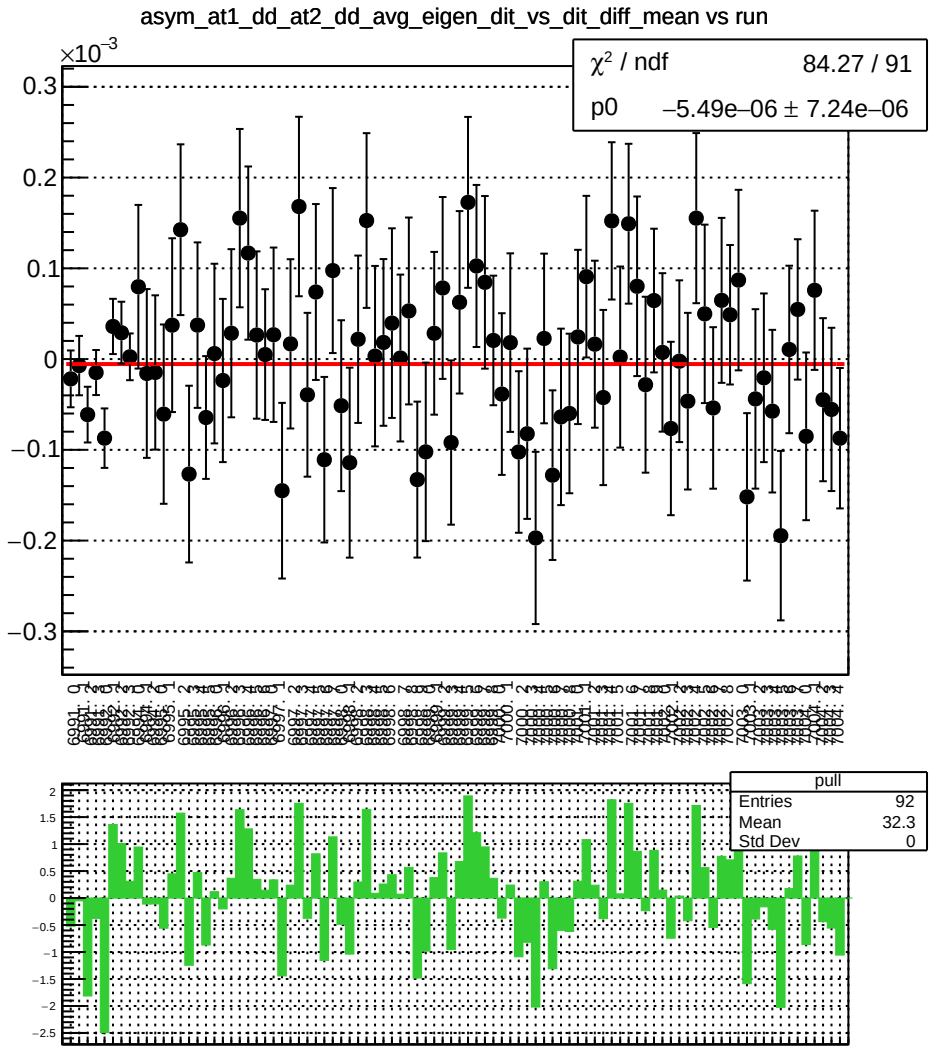

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.57 / 91
p0 0.05723 ± 0.05368
pull
Entries 92
Mean 132.5
Std Dev 0

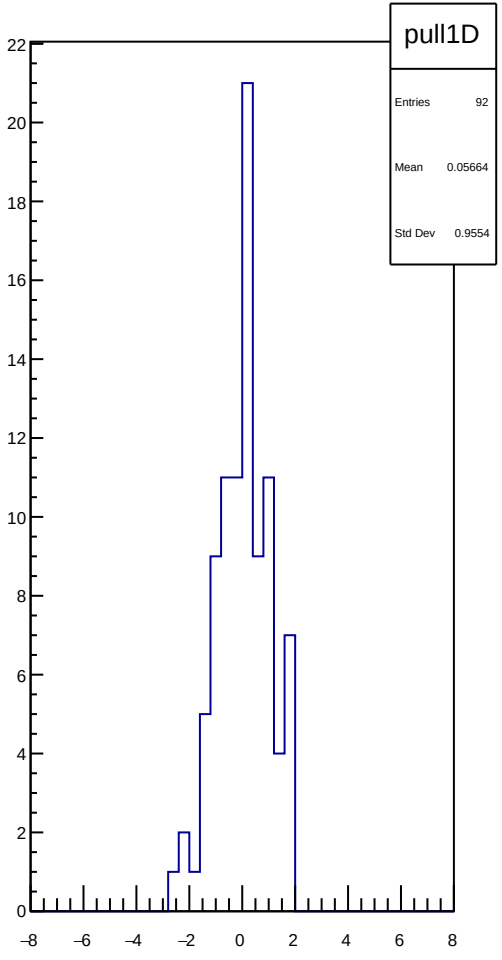

pull1D
Entries 92
Mean 0.04019
Std Dev 0.9291

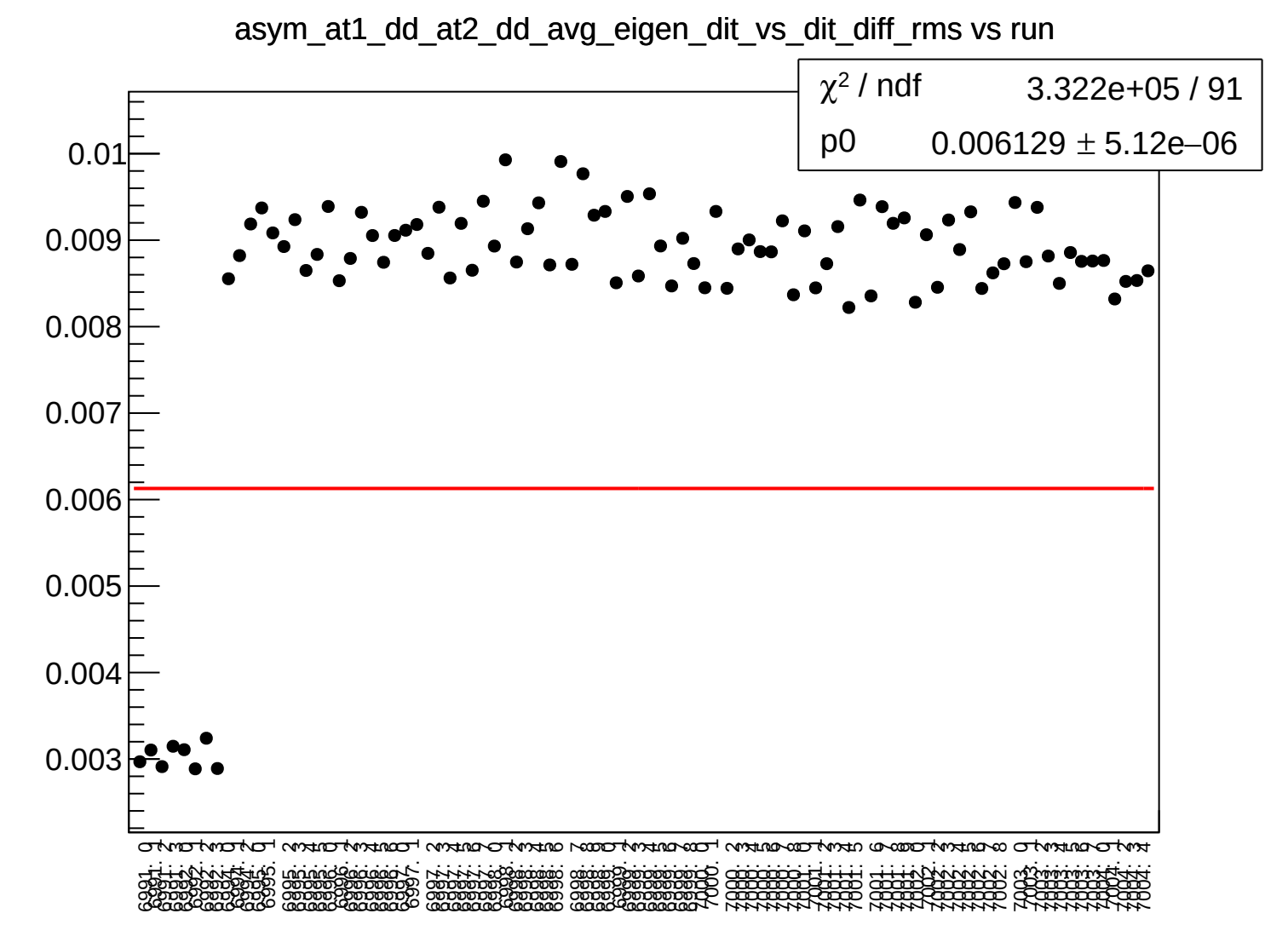

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 91
p0 48.9 ± 0.03795
90
80
70
60
50
40
30
20

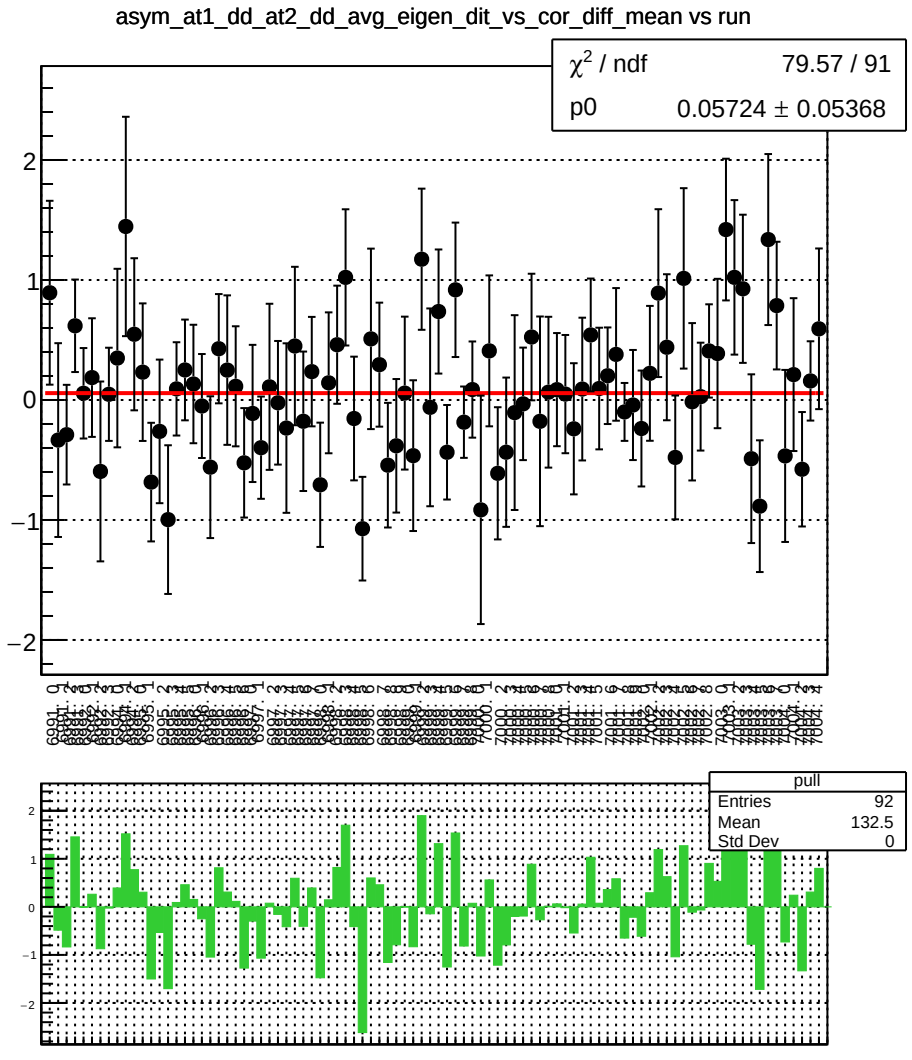

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.57 / 91
p0 0.05723 ± 0.05368
pull
Entries 92
Mean 132.5
Std Dev 0
pull1D
Entries 92
Mean 0.04019
Std Dev 0.9291

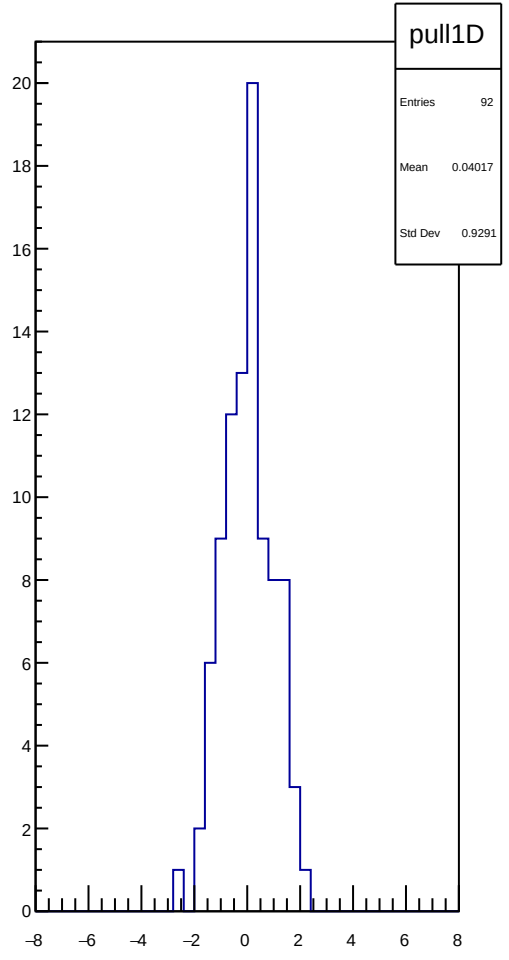

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 91
p0 48.9 ± 0.03795
90
80
70
60
50
40
30
20

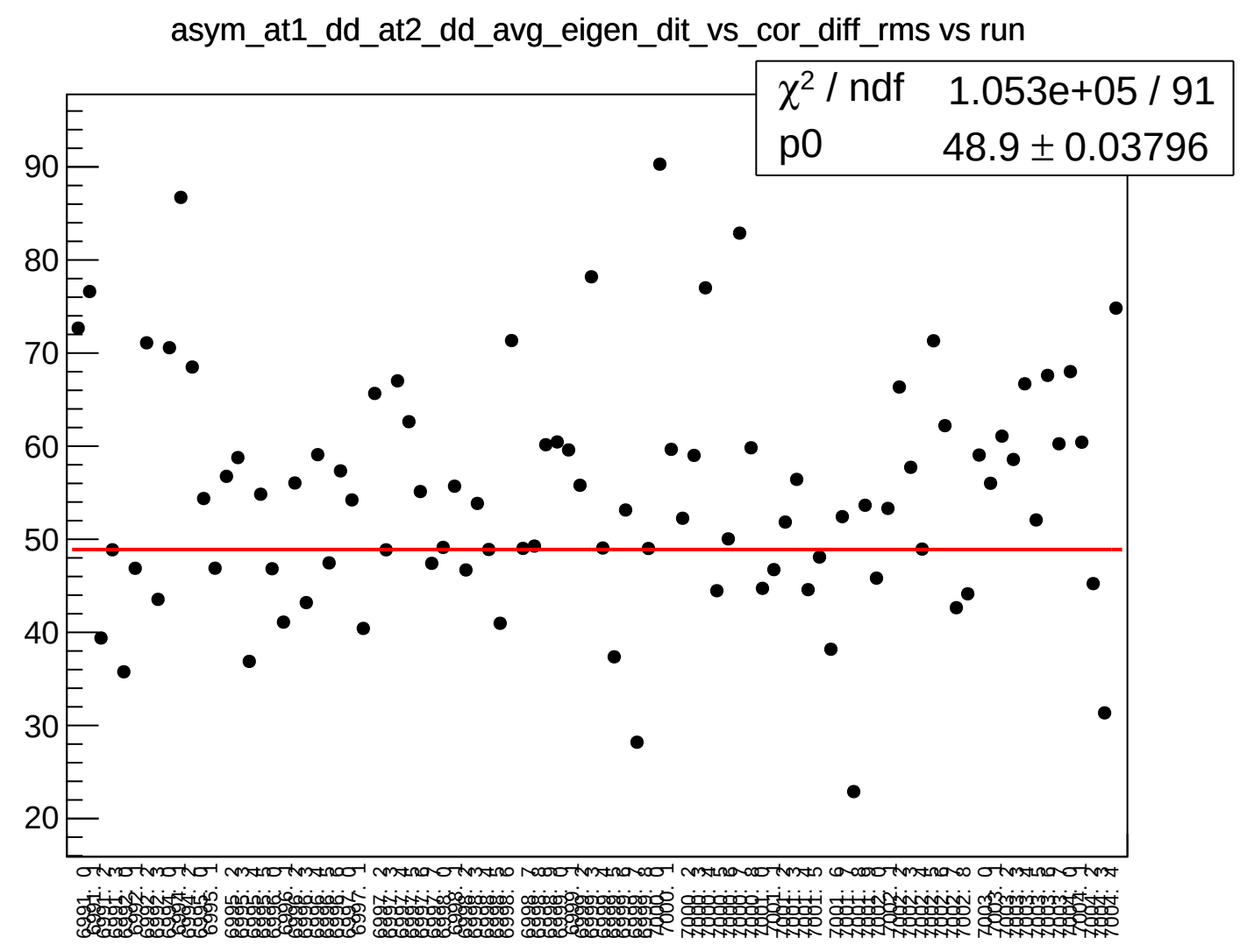

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.27 / 91
p0 −5.49e−06 ± 7.24e−06
pull
Entries 92
Mean 32.3
Std Dev 0

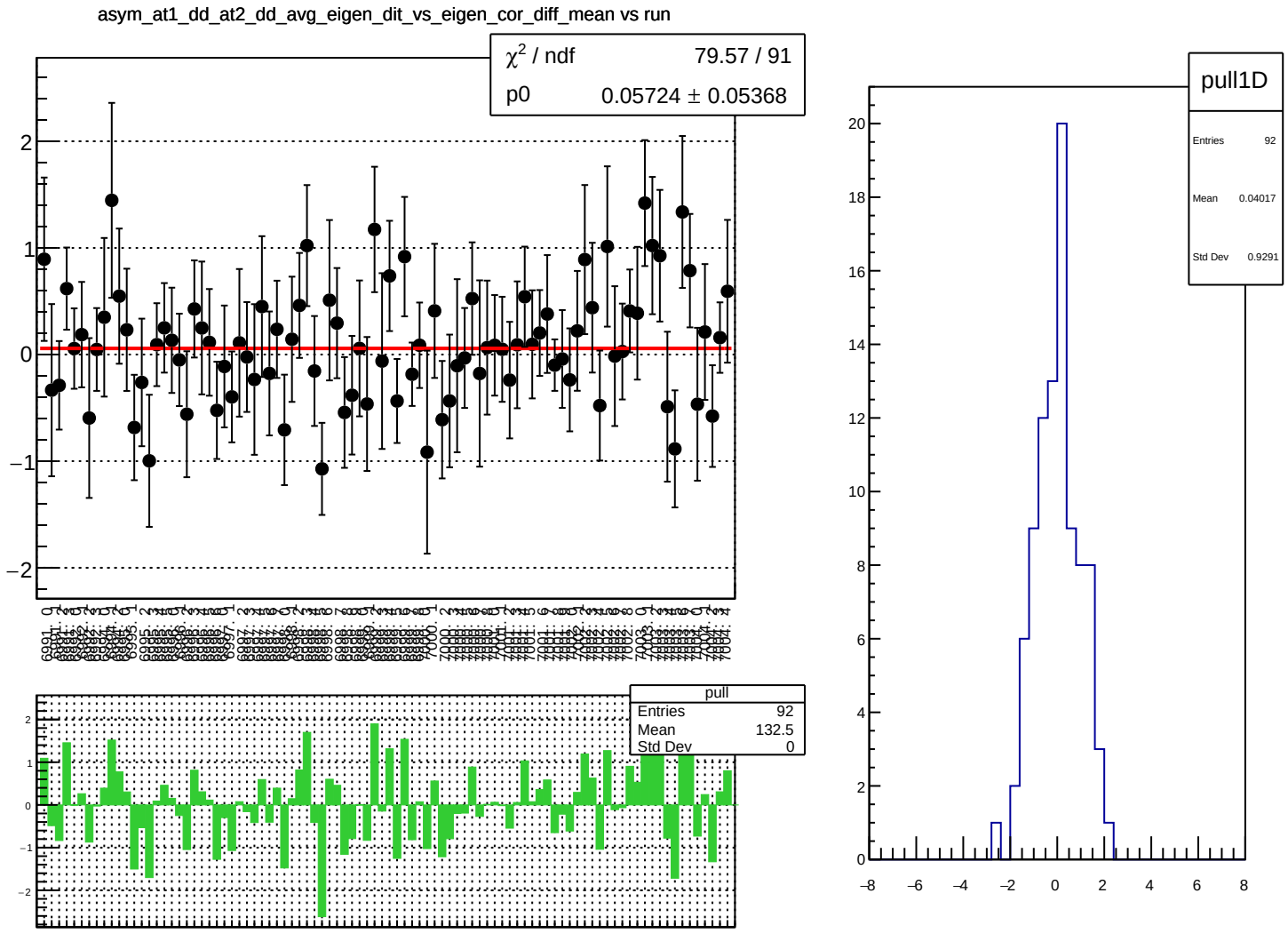

pull1D
Entries 92
Mean 0.05664
Std Dev 0.9554

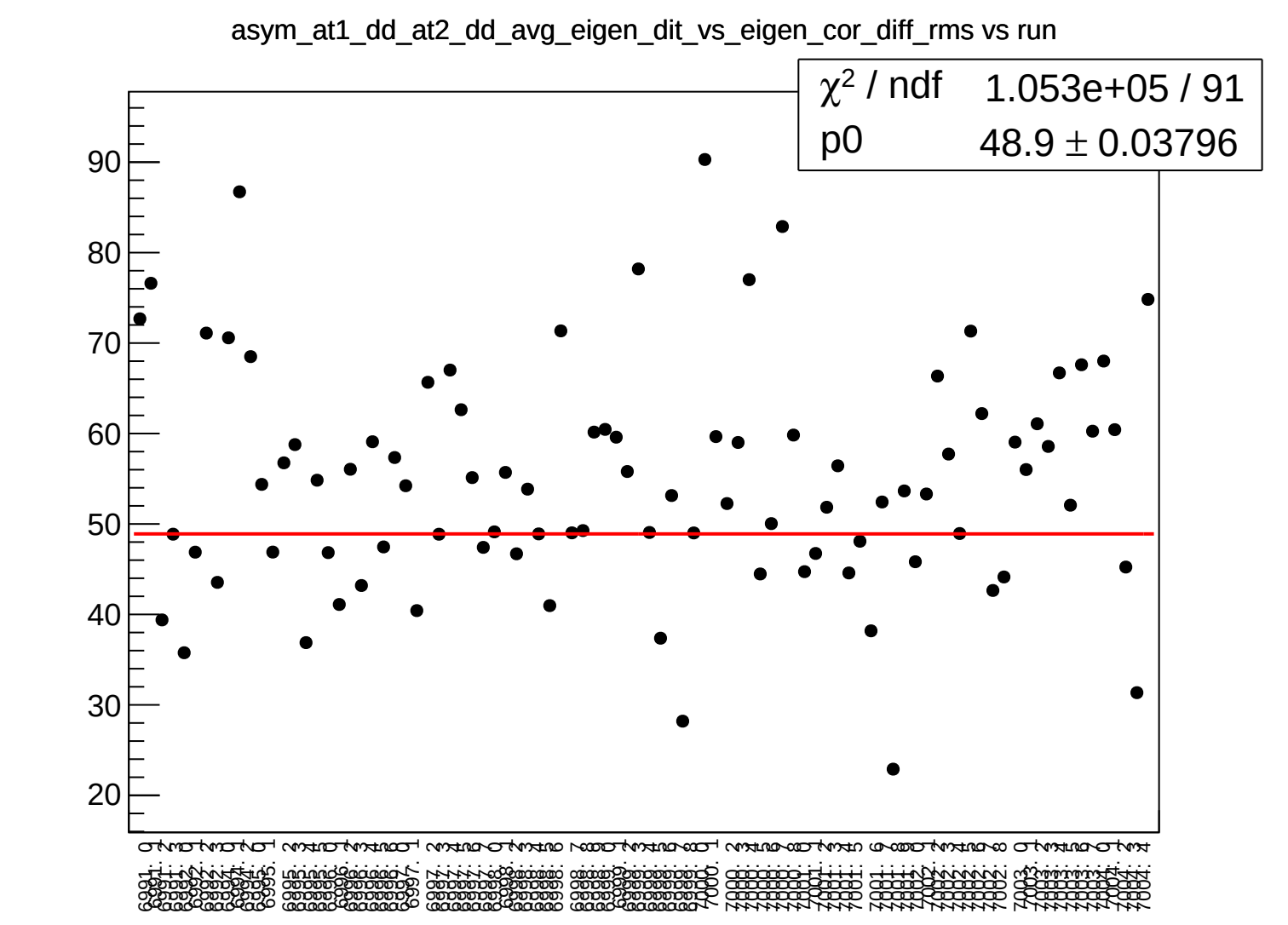

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.322e+05 / 91
p0 0.006129 ± 5.12e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

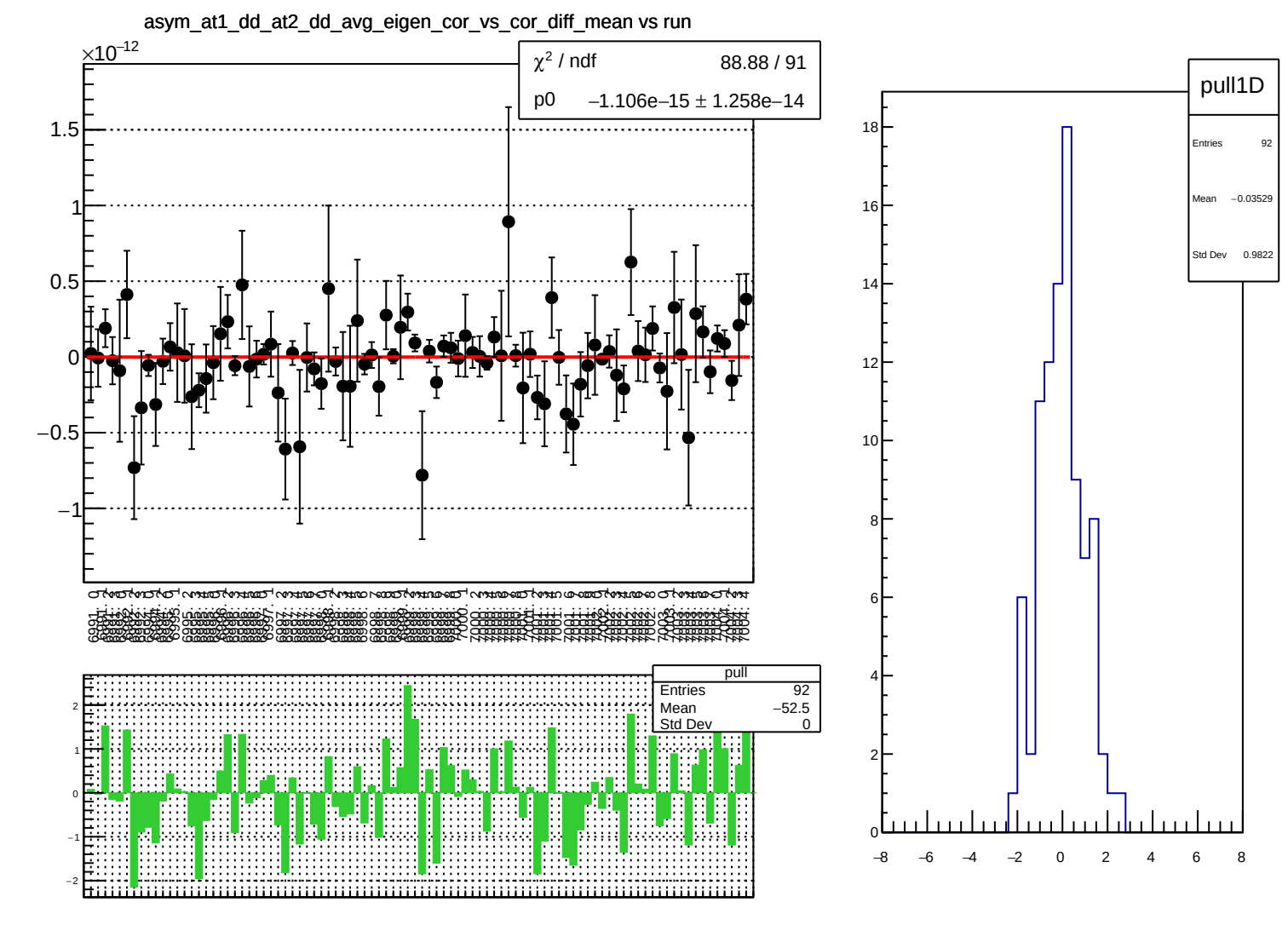

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.57 / 91
p0 0.05724 ± 0.05368
pull
Entries 92
Mean 132.5
Std Dev 0

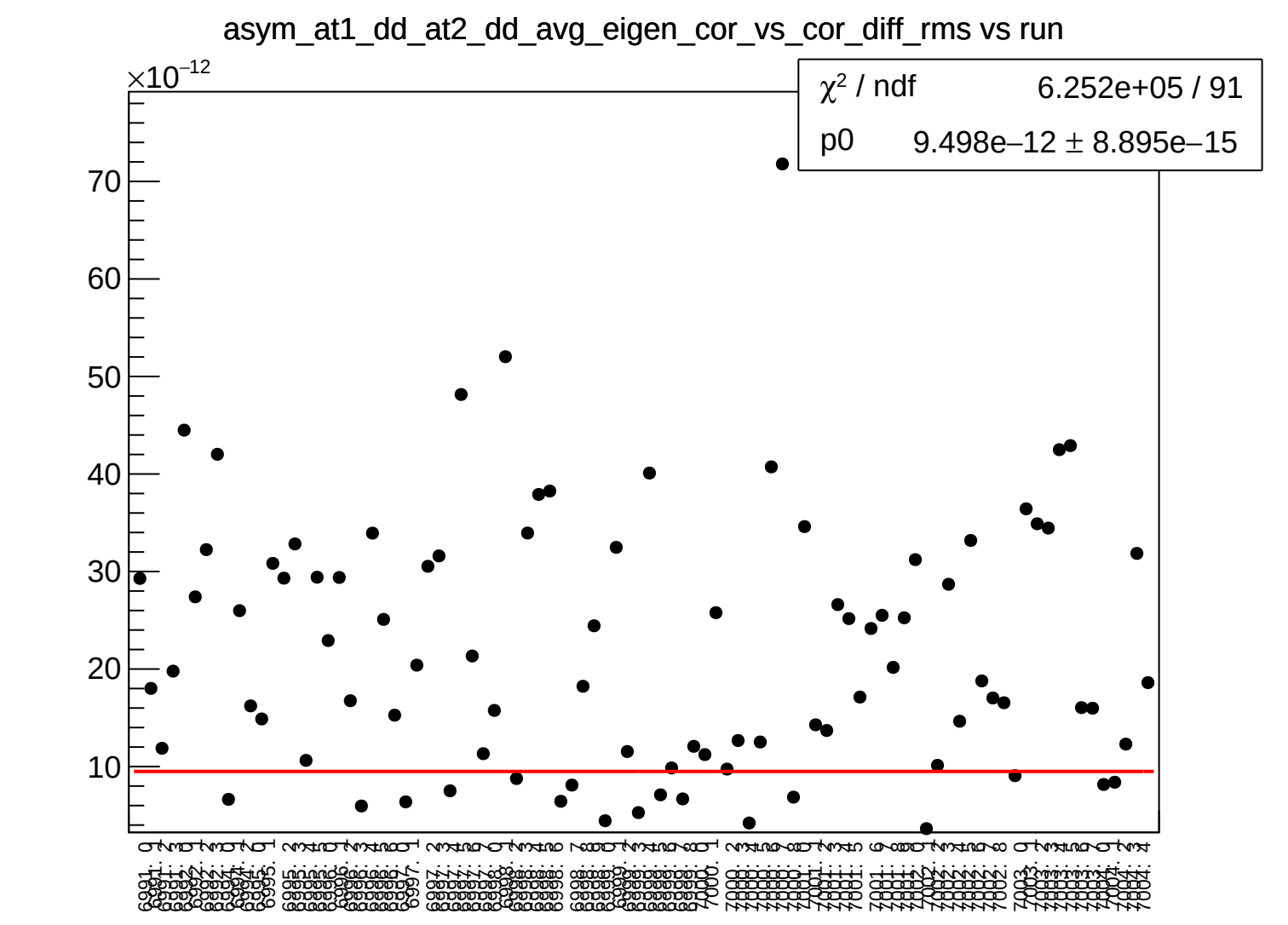

pull1D
Entries 92
Mean 0.04017
Std Dev 0.9291

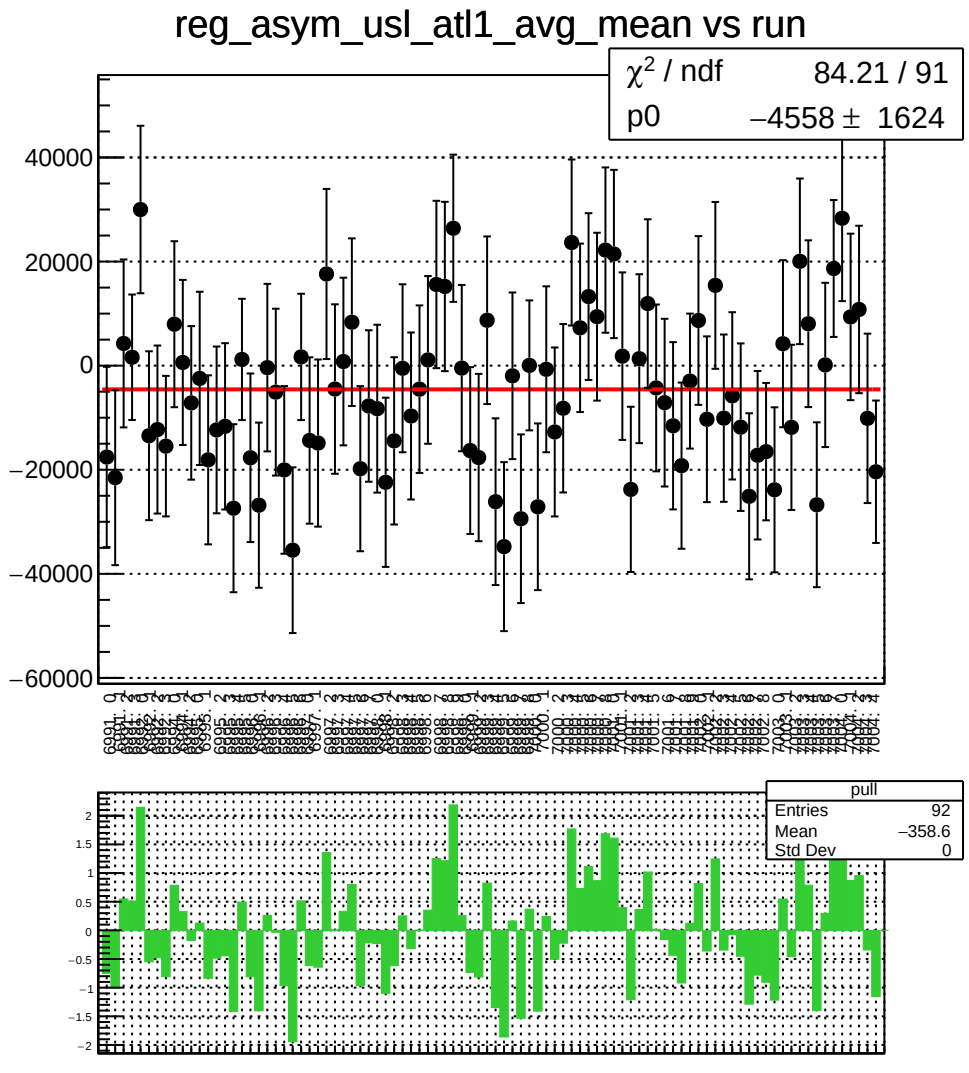

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 91
p0 48.9 ± 0.03796
90
80
70
60
50
40
30
20

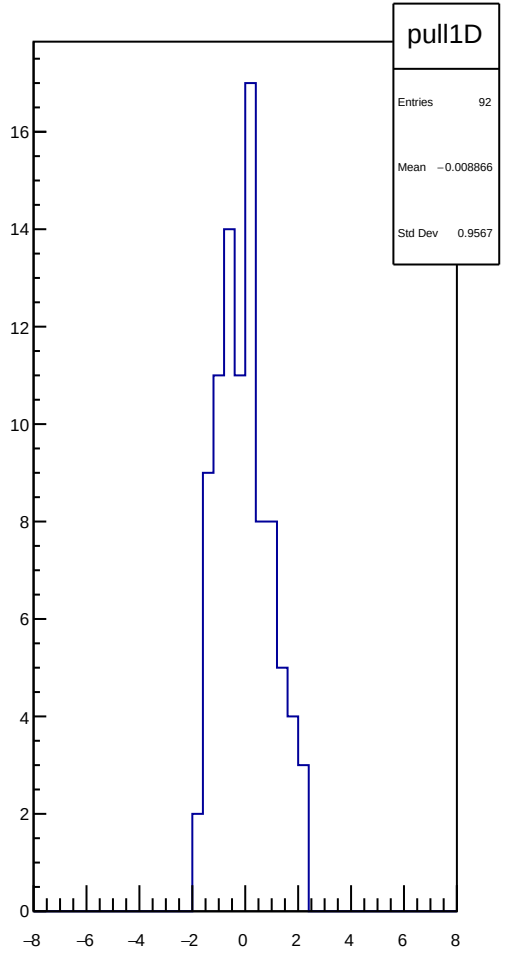

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.57 / 91
p0 0.05724 ± 0.05368
pull
Entries 92
Mean 132.5
Std Dev 0
pull1D
Entries 92
Mean 0.04017
Std Dev 0.9291

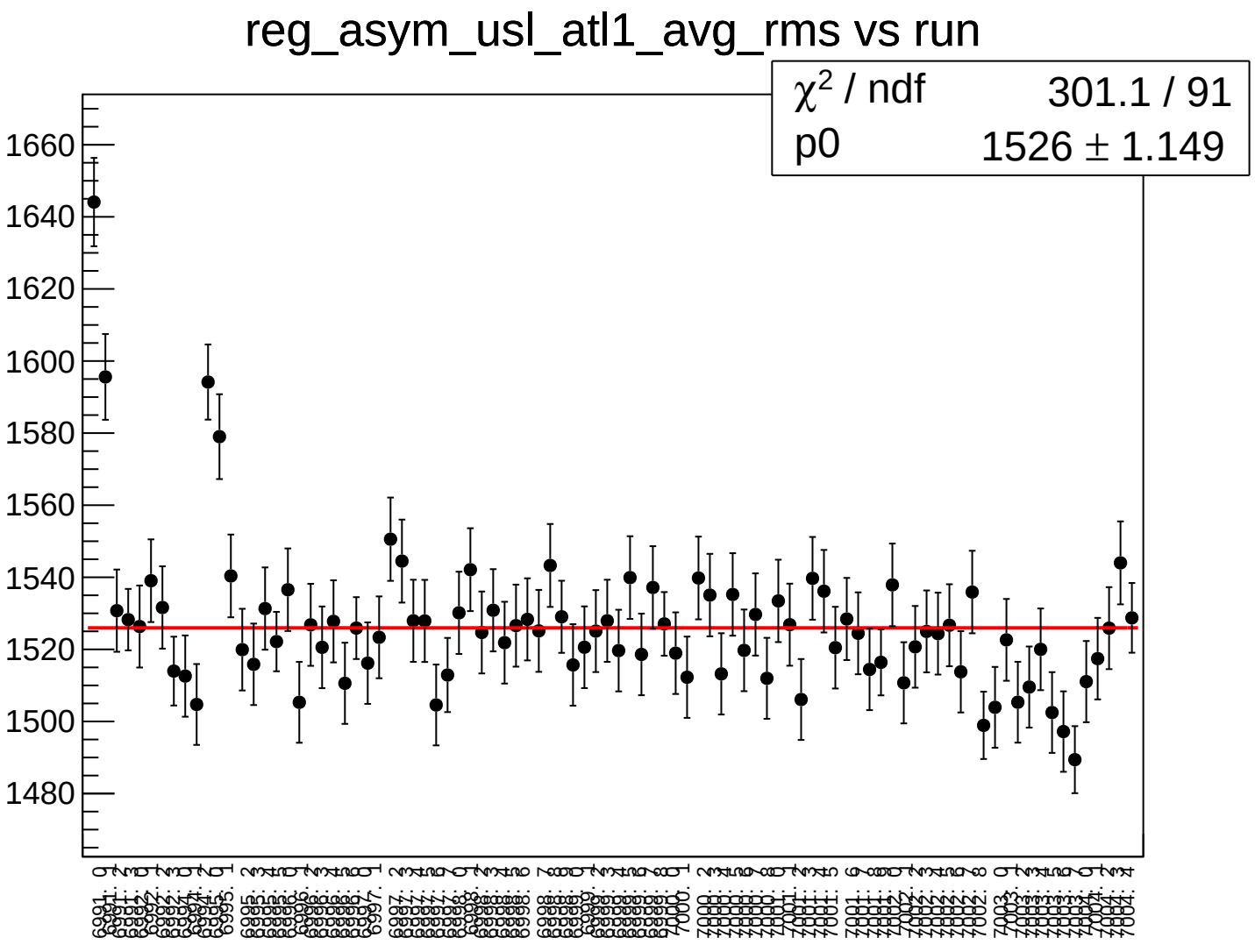

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 91
p0 48.9 ± 0.03796
90
80
70
60
50
40
30
20

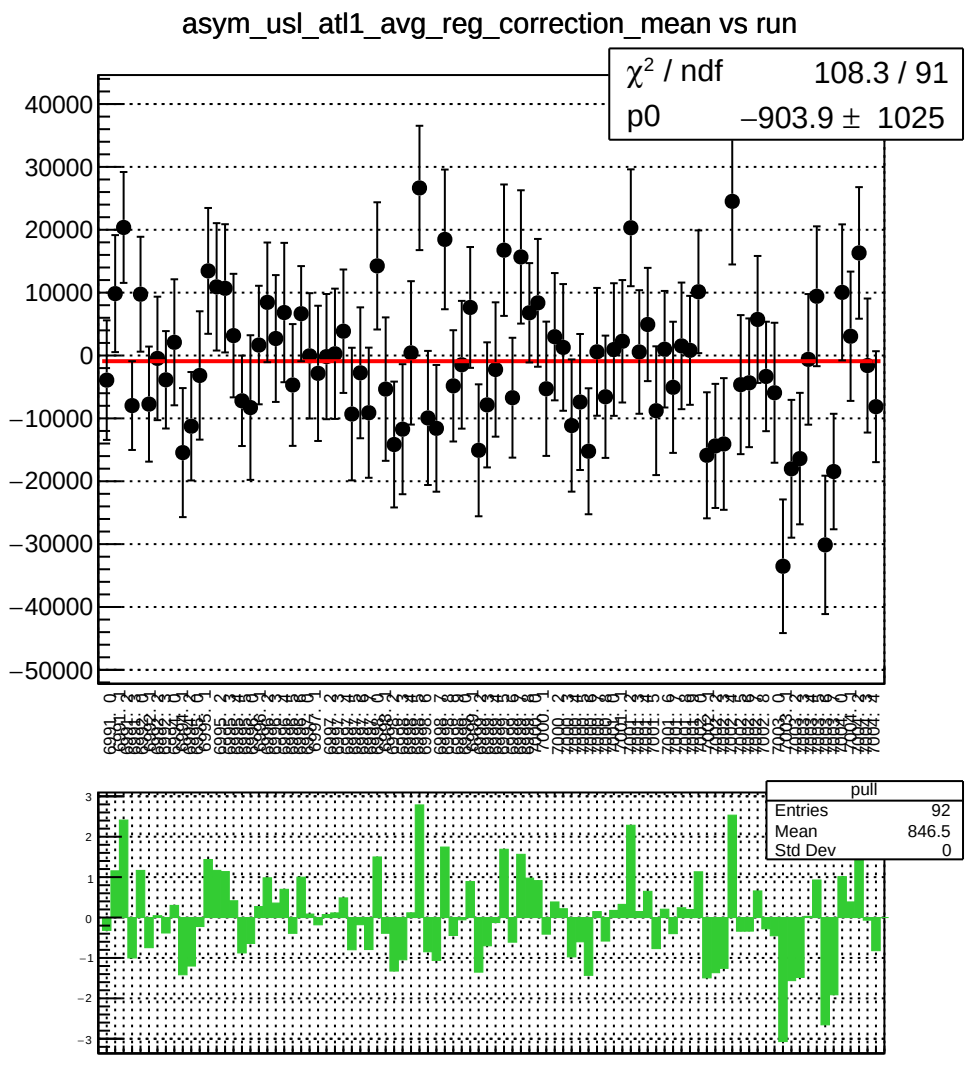

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.88 / 91
p0 −1.106e−15 ± 1.258e−14
pull
Entries 92
Mean −52.5
Std Dev 0
pull1D
Entries 92
Mean −0.03529
Std Dev 0.9822

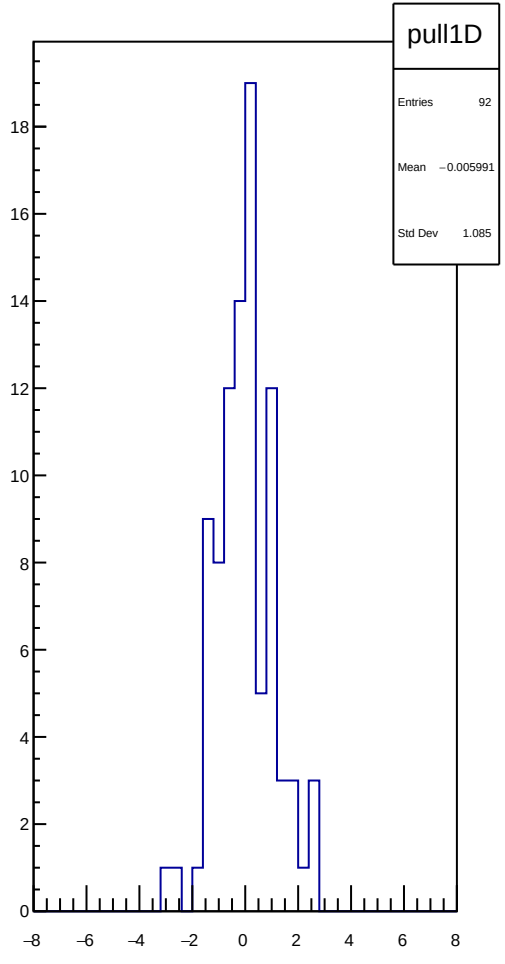

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.252e+05 / 91
p0 9.498e−12 ± 8.895e−15
70
60
50
40
30
20
10

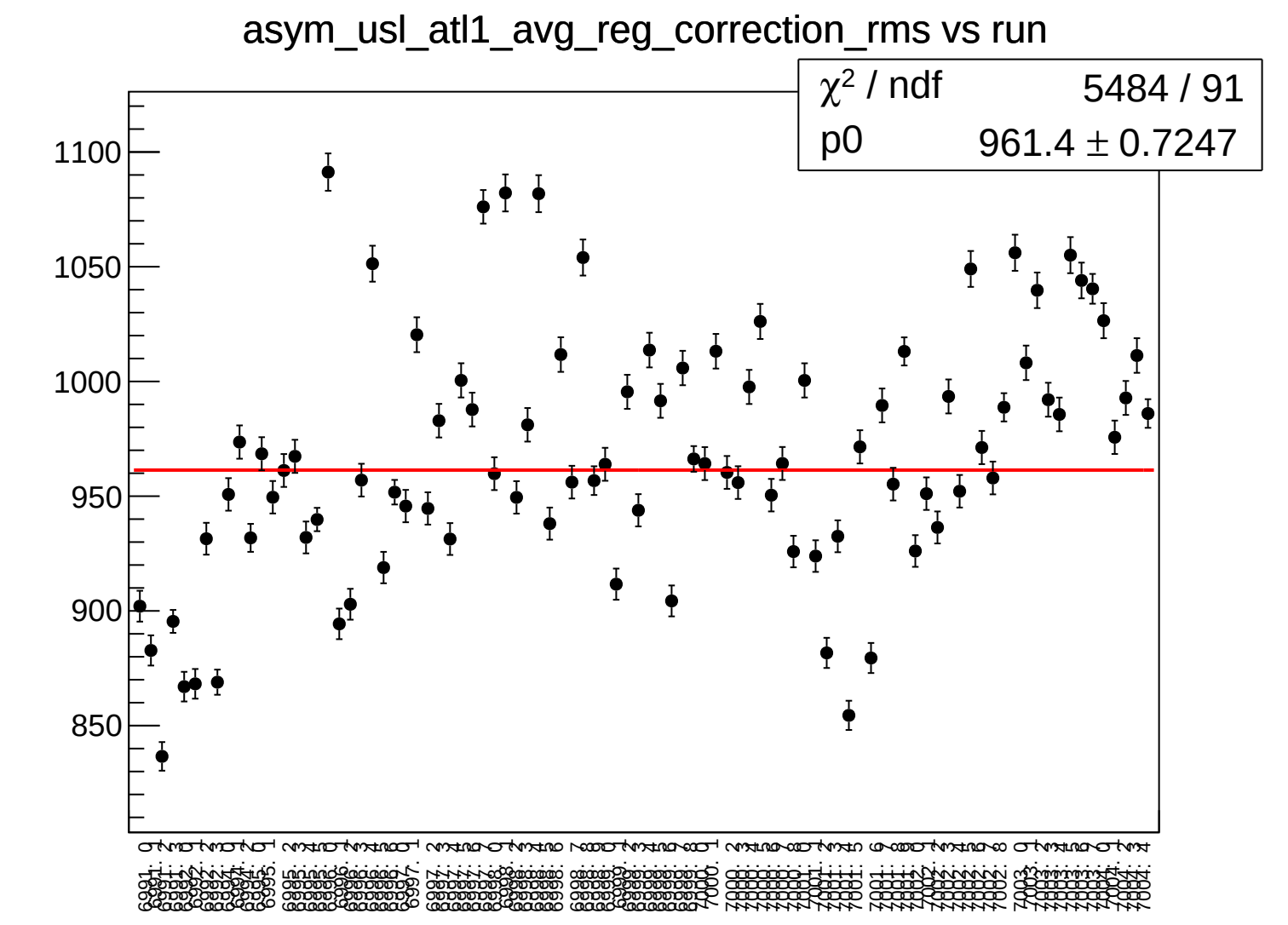

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.21 / 91
p0 −4558 ± 1624
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −358.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

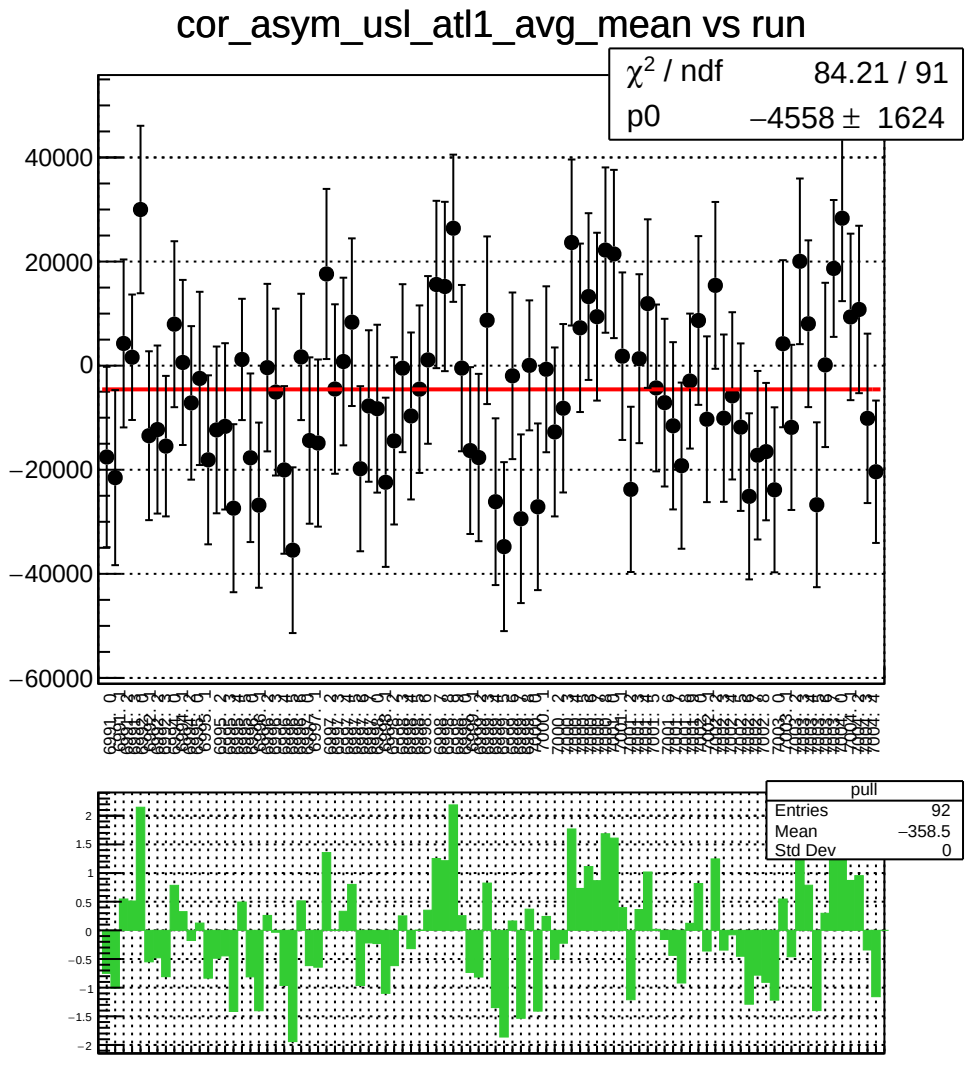

pull1D
Entries 92
Mean −0.008866
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

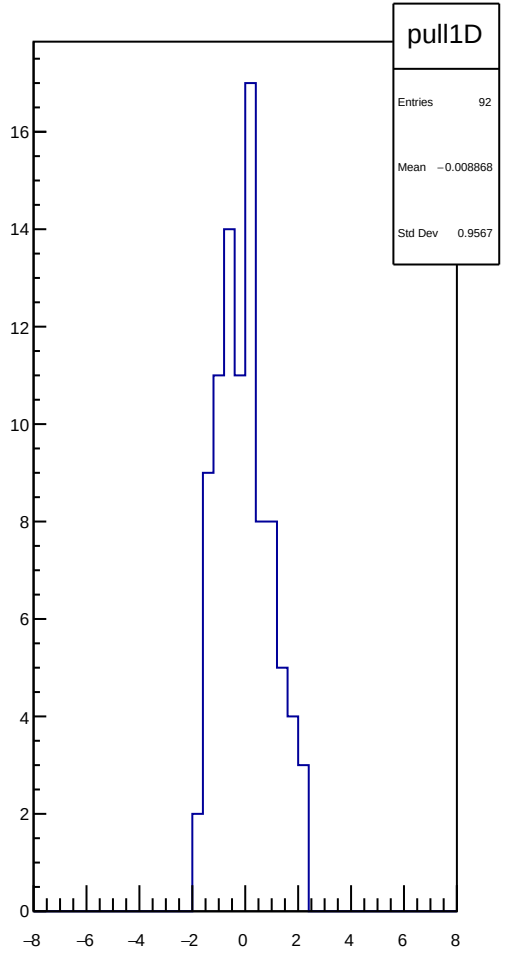

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 301.1 / 91
p0 1526 ± 1.149
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

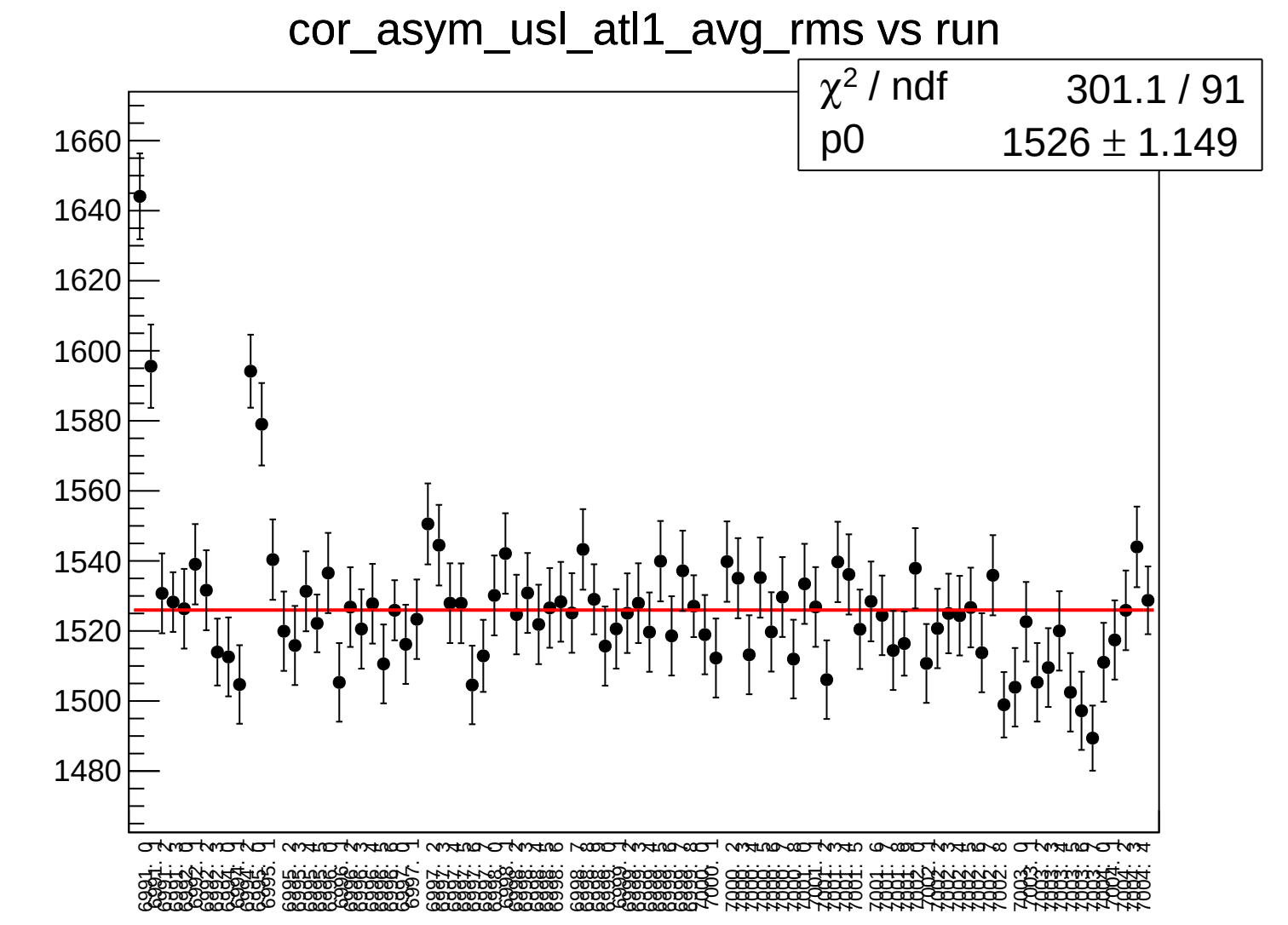

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 108.3 / 91
p0 −903.9 ± 1025
pull
Entries 92
Mean 846.5
Std Dev 0

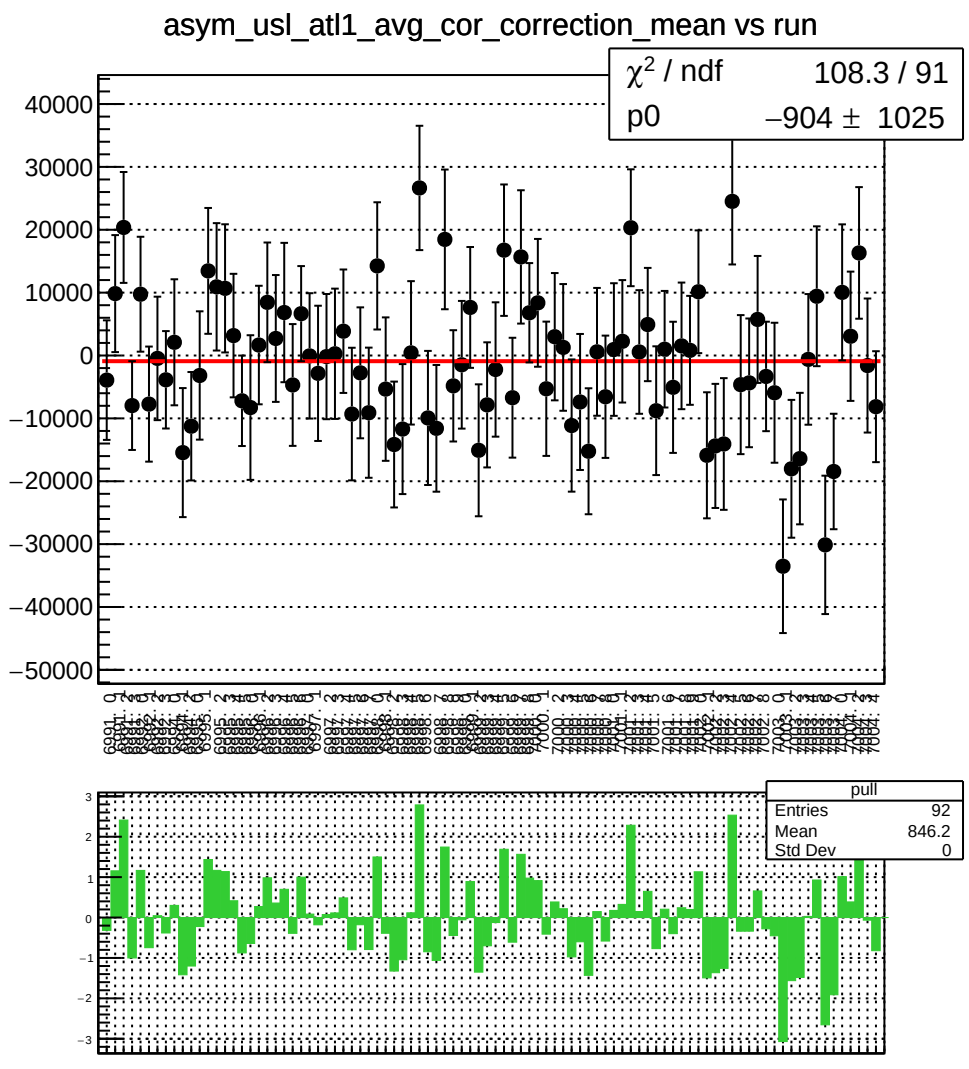

pull1D
Entries 92
Mean −0.005991
Std Dev 1.085

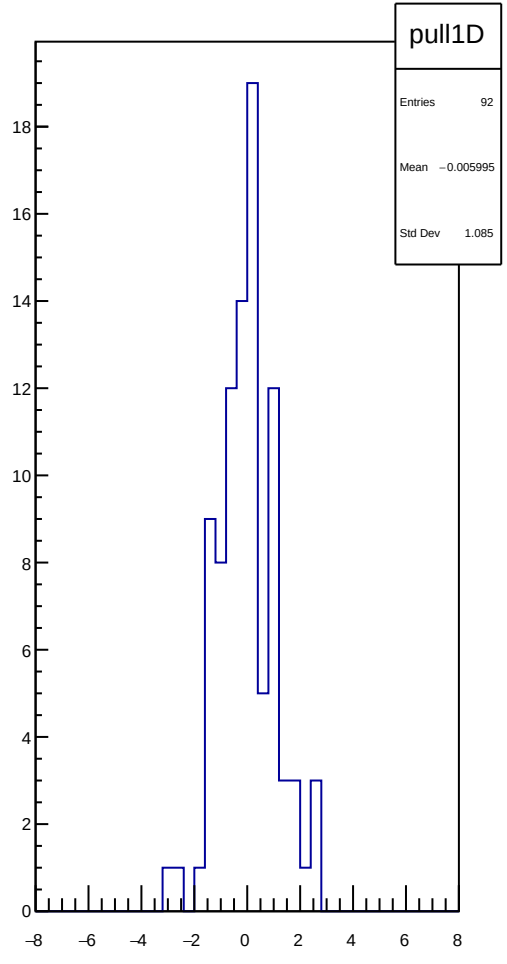

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 5484 / 91
p0 961.4 ± 0.7247
1100
1050
1000
950
900
850

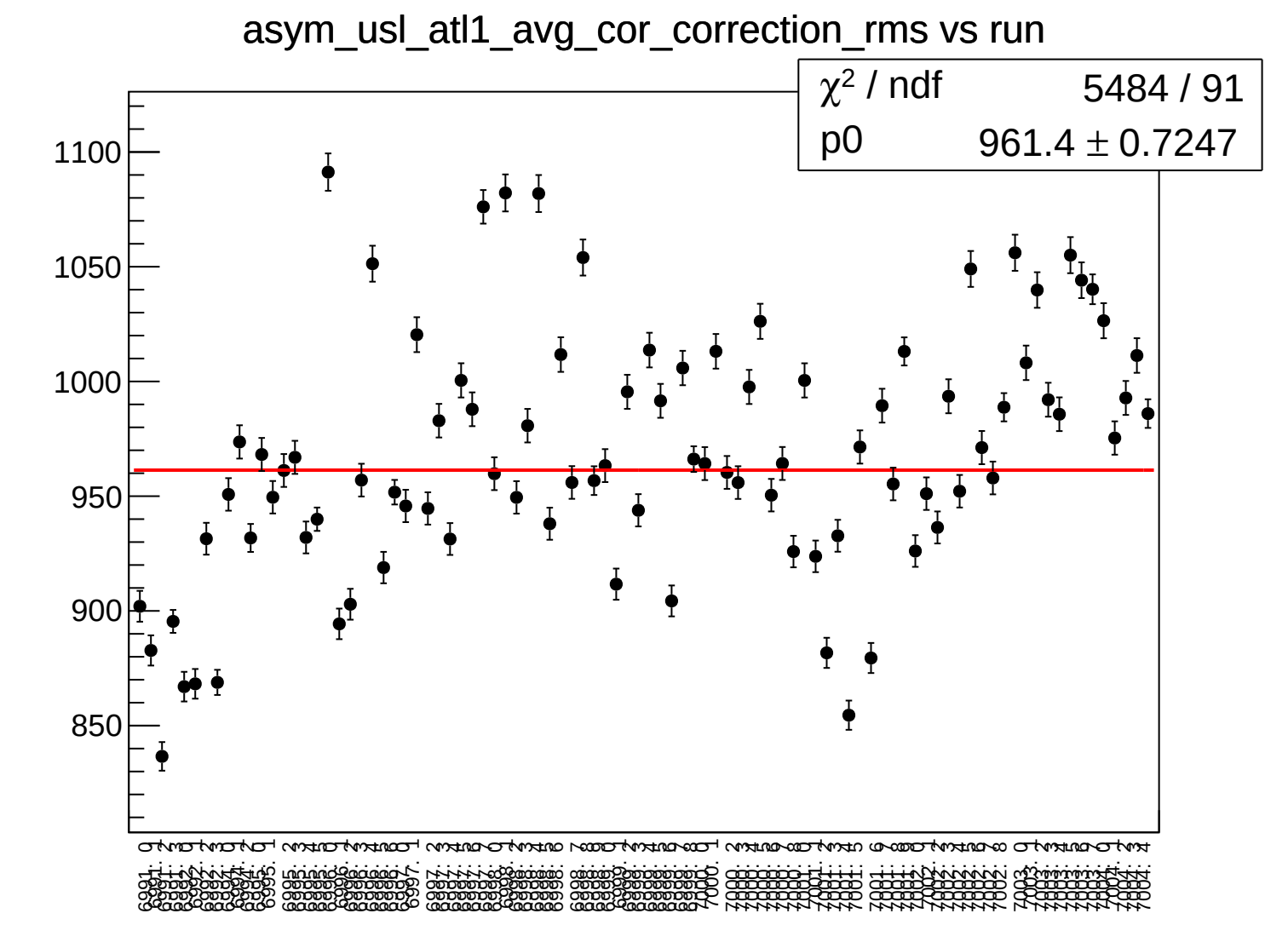

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.21 / 91
p0 −4558 ± 1624
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −358.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

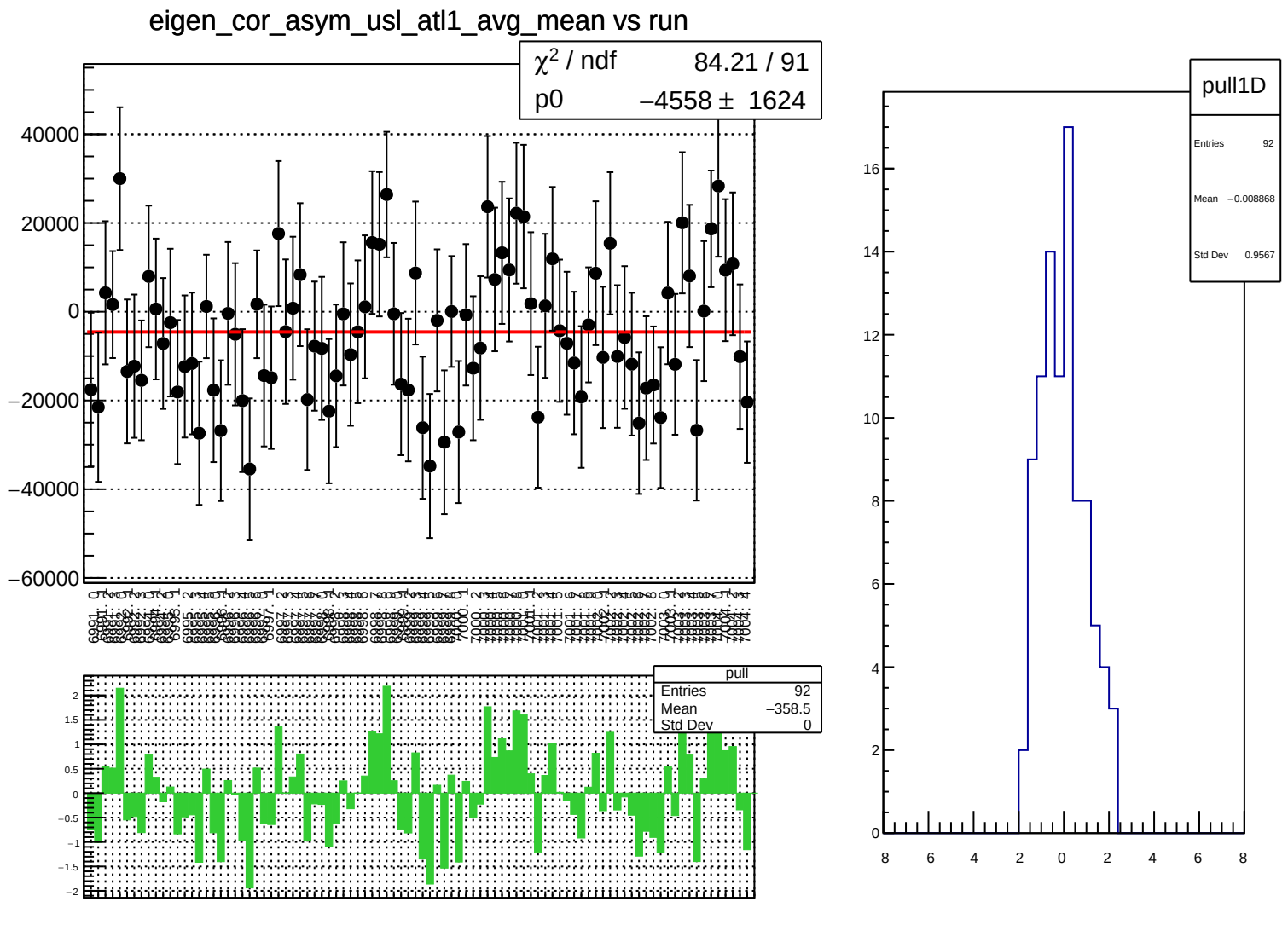

pull1D
Entries 92
Mean −0.008868
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

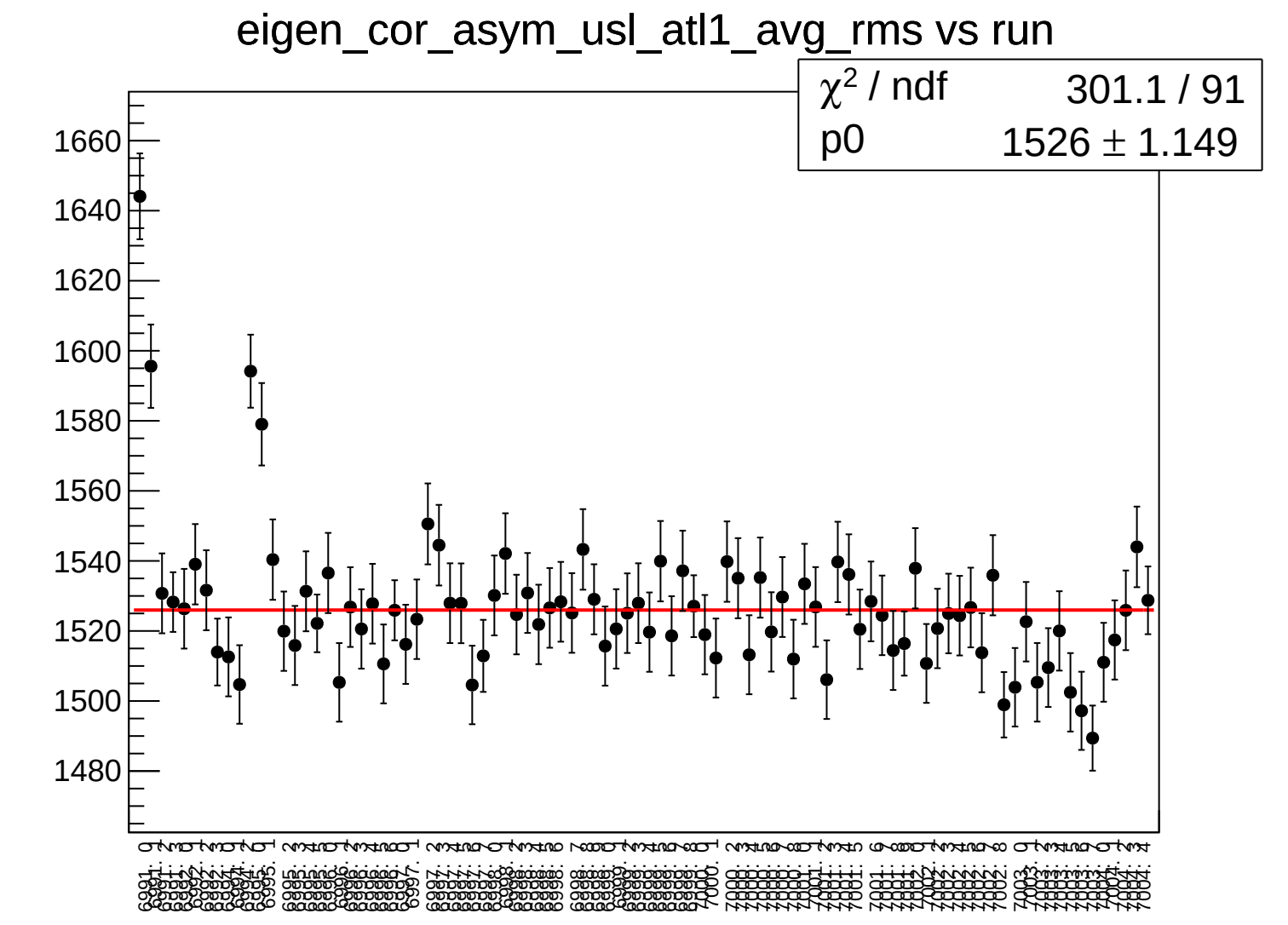

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 301.1 / 91
p0 1526 ± 1.149
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

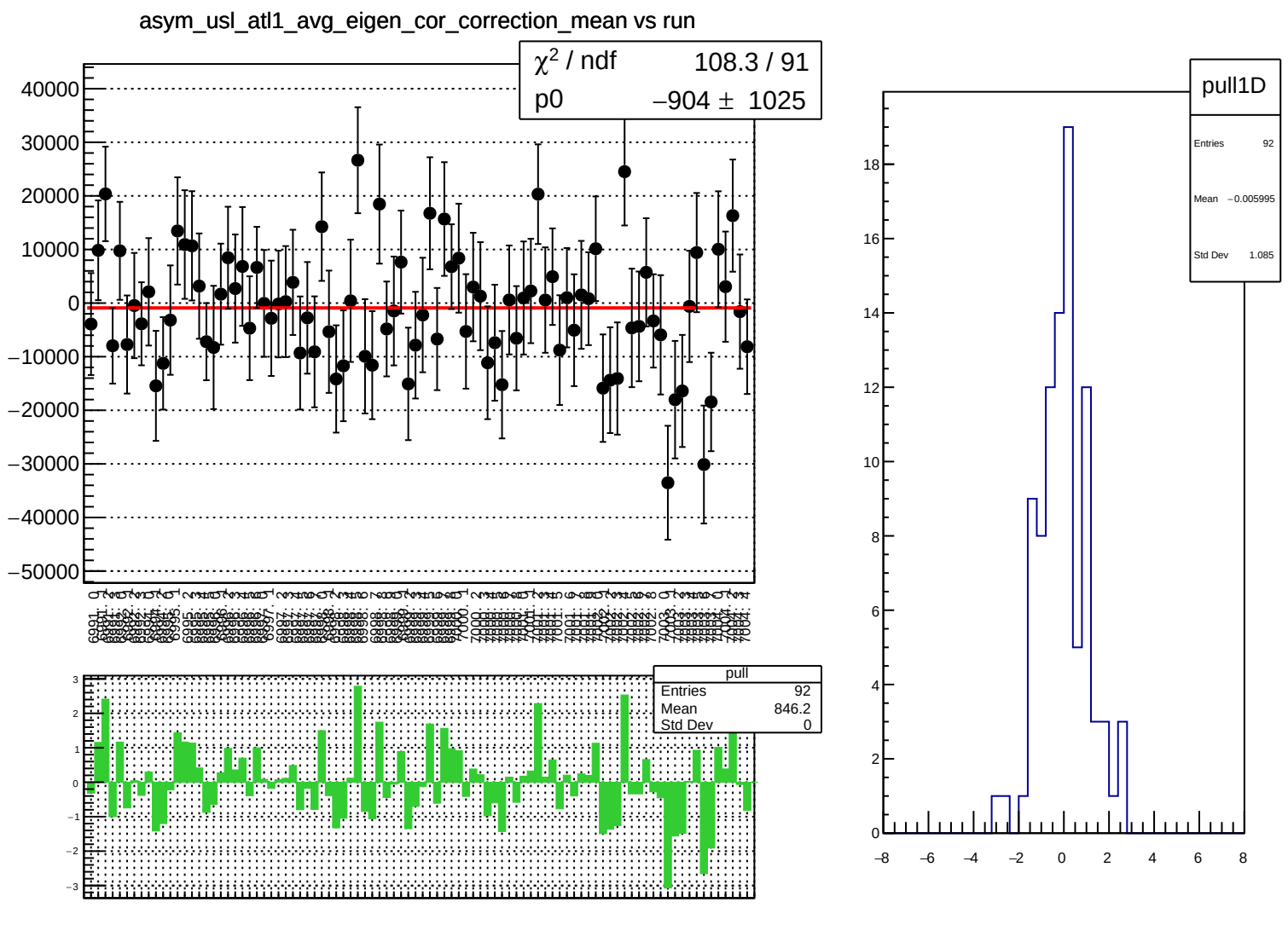

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 108.3 / 91
p0 −904 ± 1025
pull
Entries 92
Mean 846.2
Std Dev 0

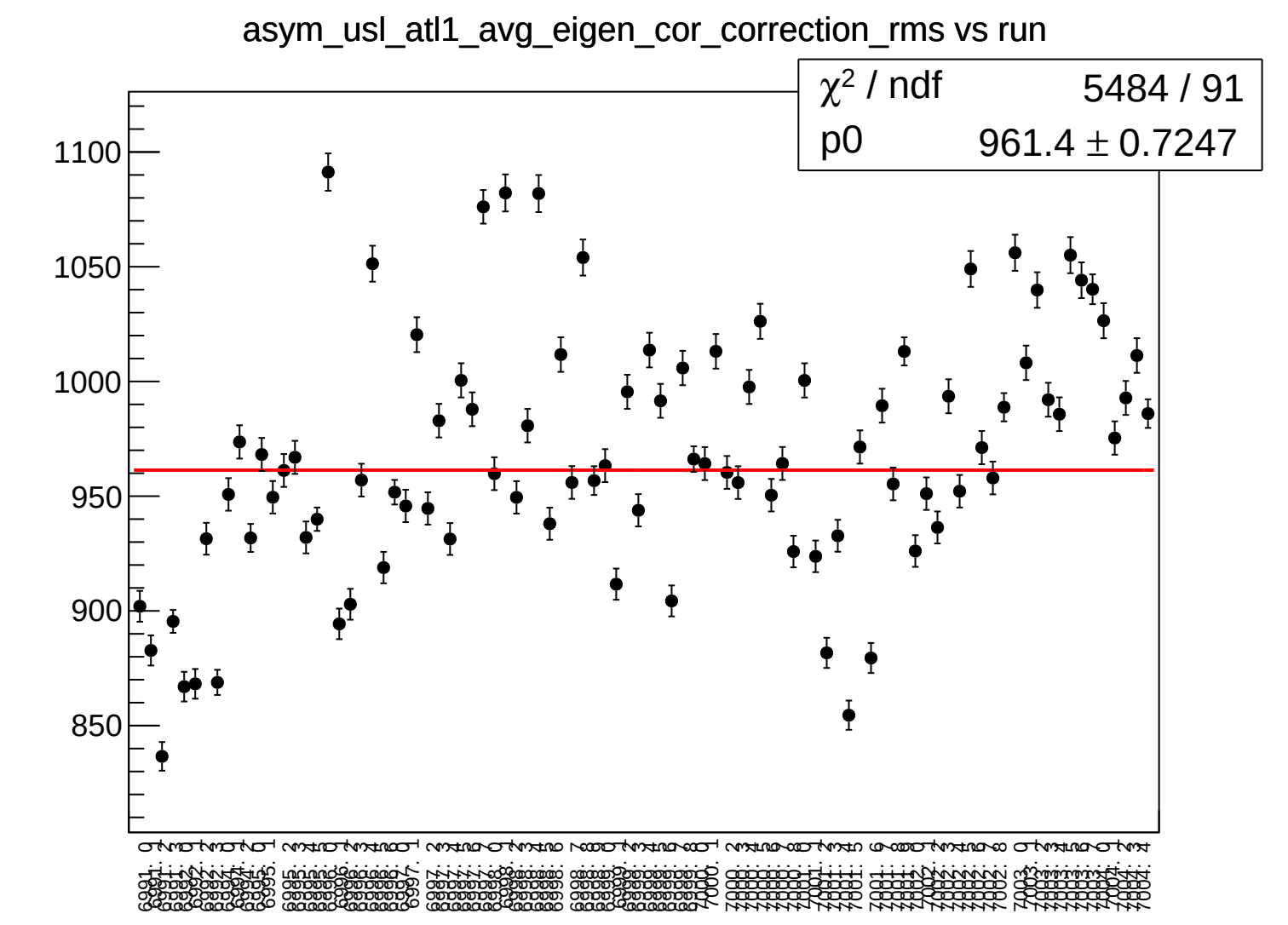

pull1D
Entries 92
Mean −0.005995
Std Dev 1.085

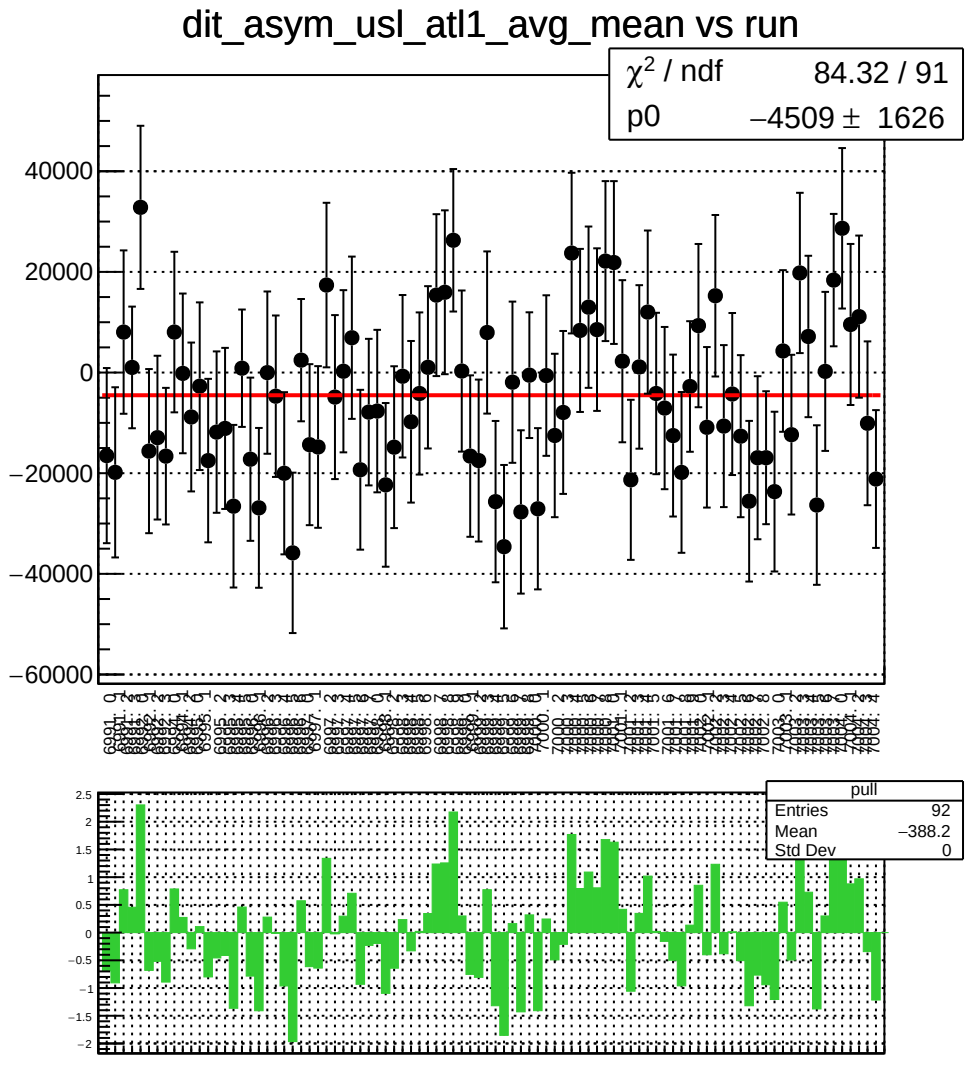

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 5484 / 91
p0 961.4 ± 0.7247
1100
1050
1000
950
900
850

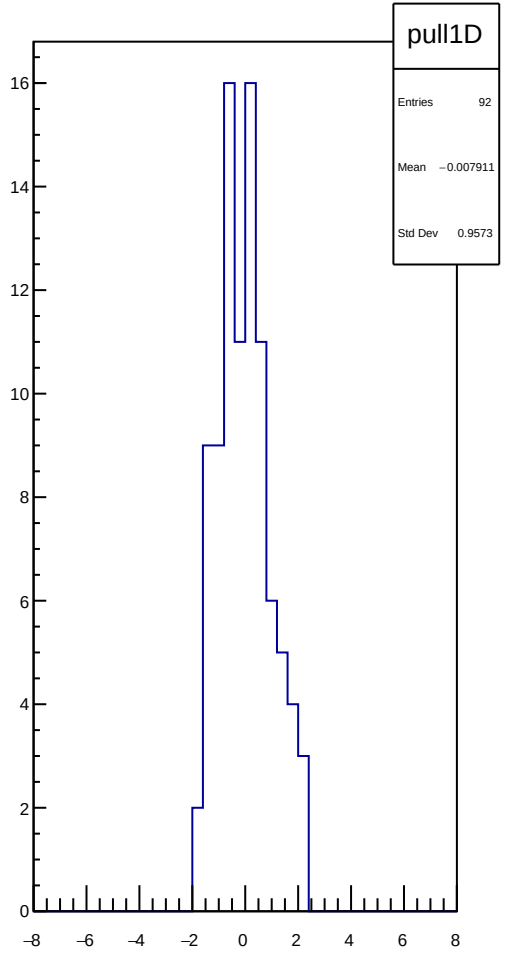

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.21 / 91
p0 −4558 ± 1624
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −358.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.008868
Std Dev 0.9567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

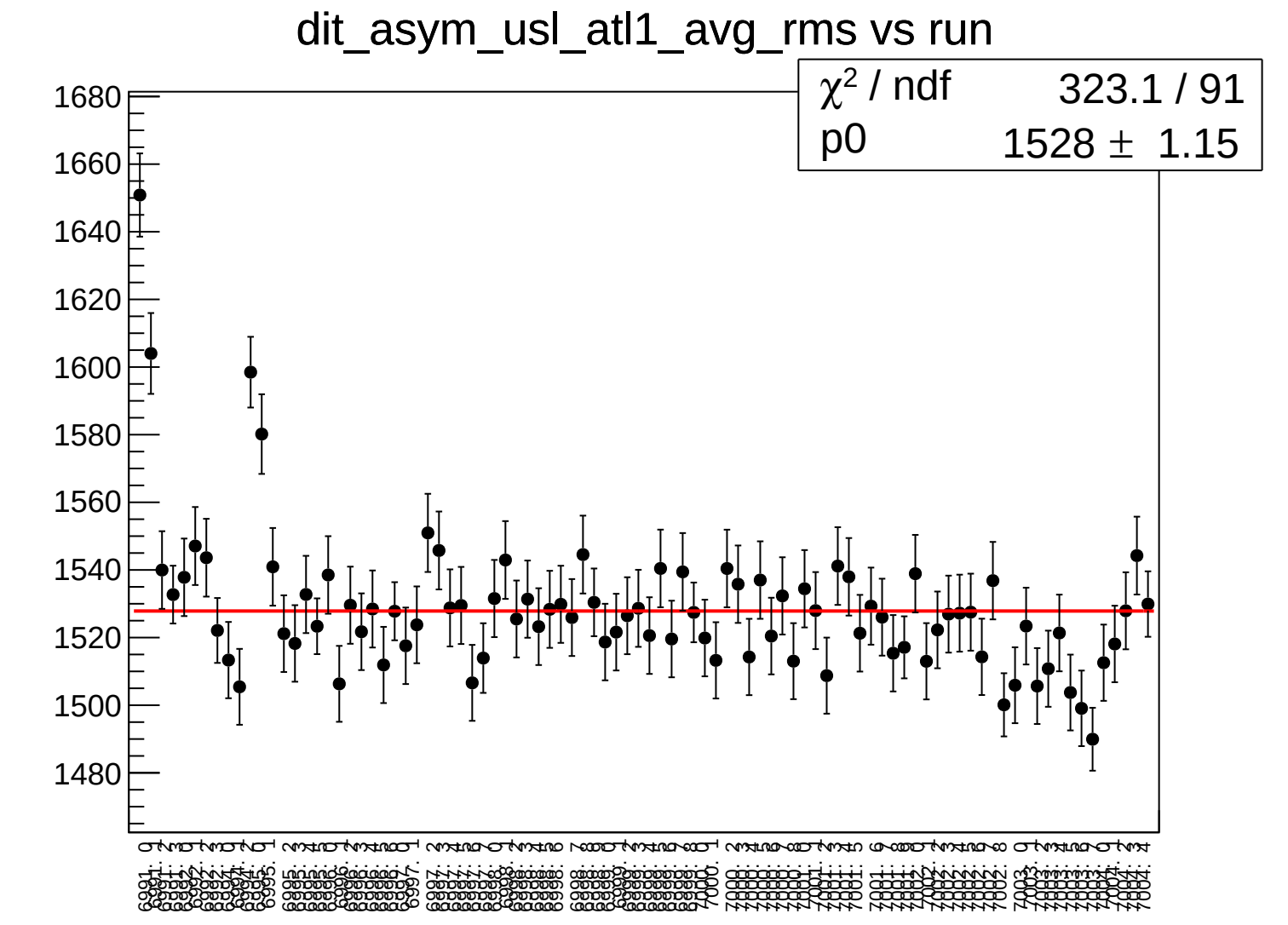

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 301.1 / 91
p0 1526 ± 1.149
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

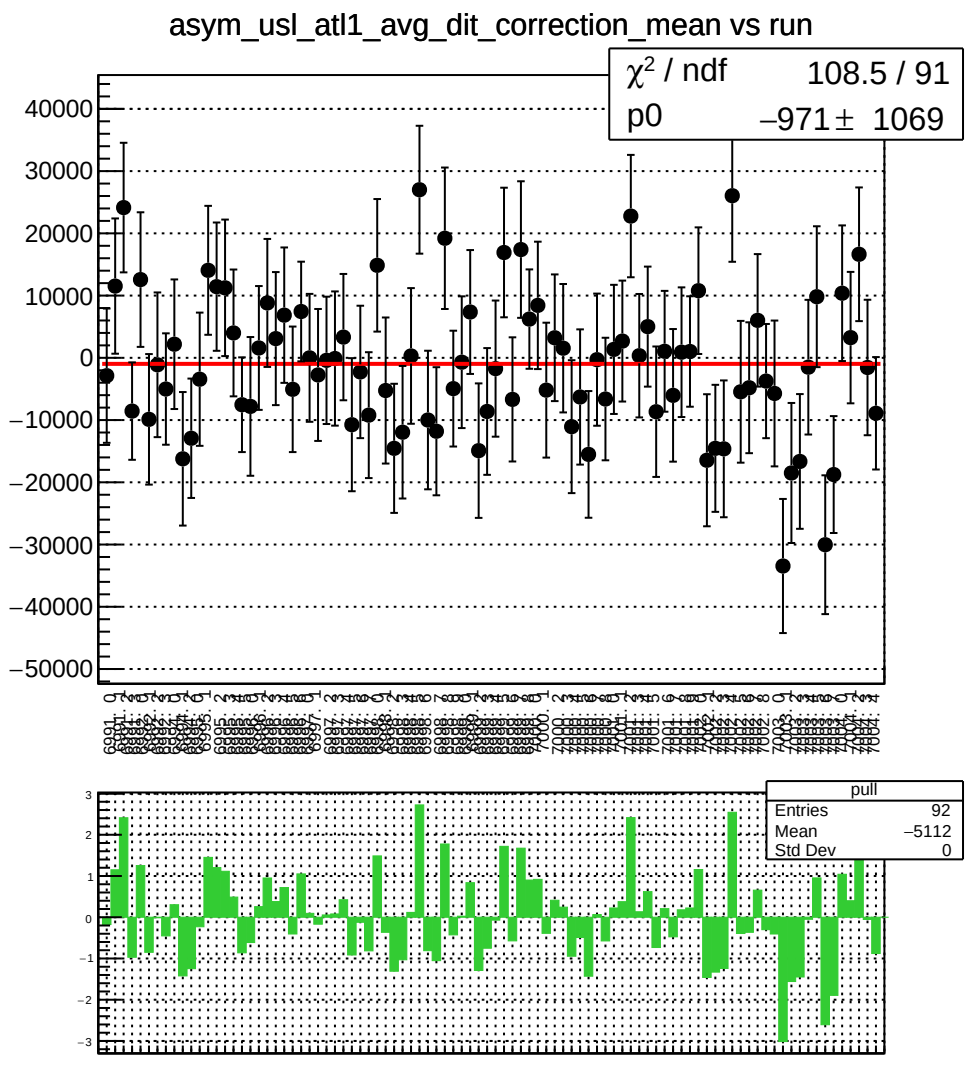

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 108.3 / 91
p0 −904 ± 1025
pull
Entries 92
Mean 846.2
Std Dev 0
pull1D
Entries 92
Mean −0.005995
Std Dev 1.085

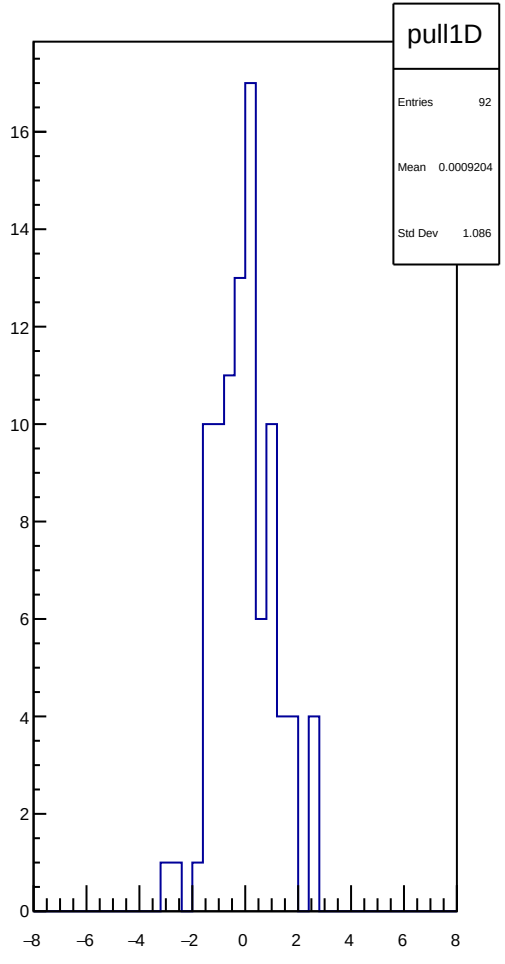

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5484 / 91
p0 961.4 ± 0.7247
1100
1050
1000
950
900
850

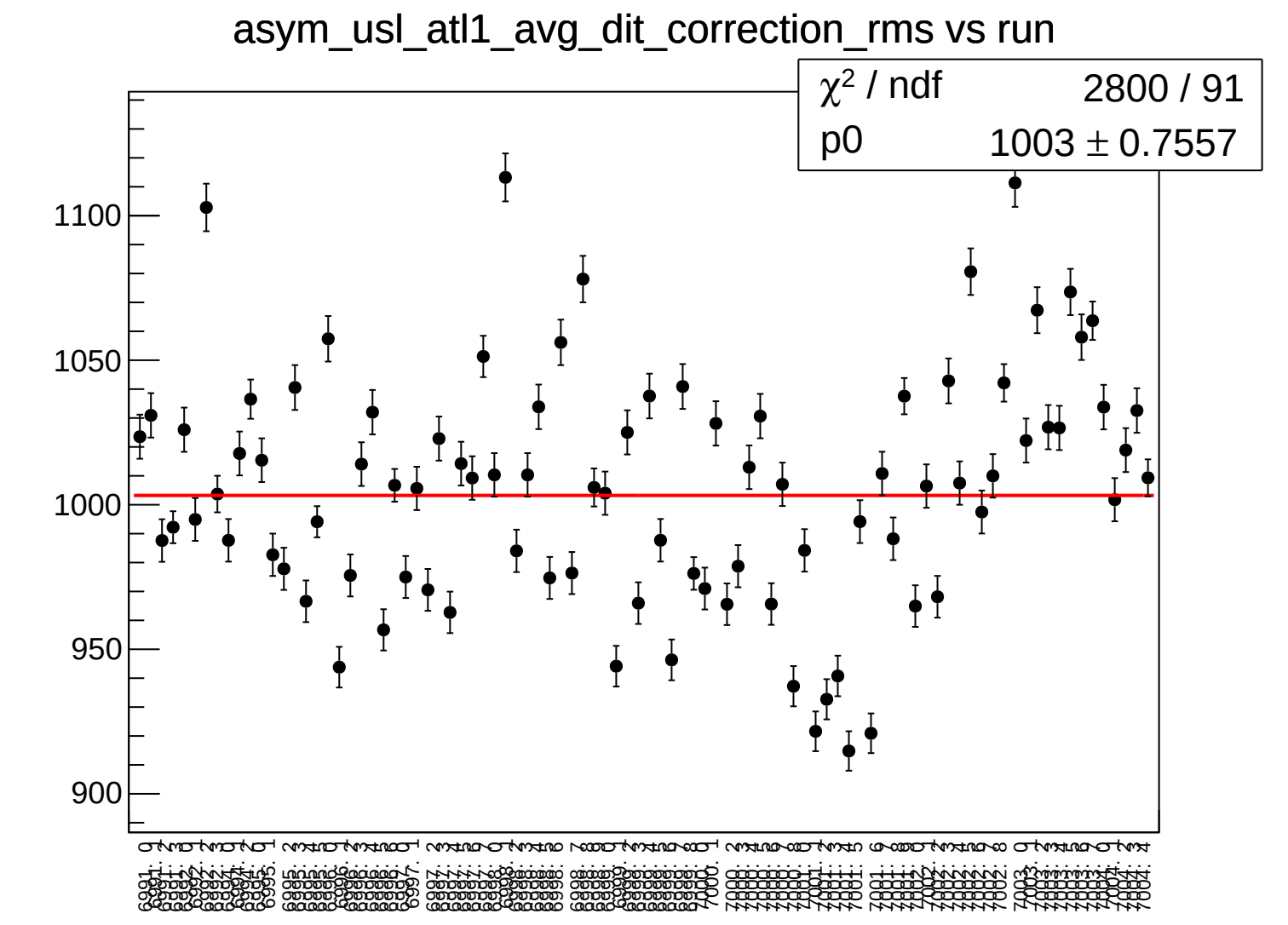

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.32 / 91
p0 −4509 ± 1626
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −388.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

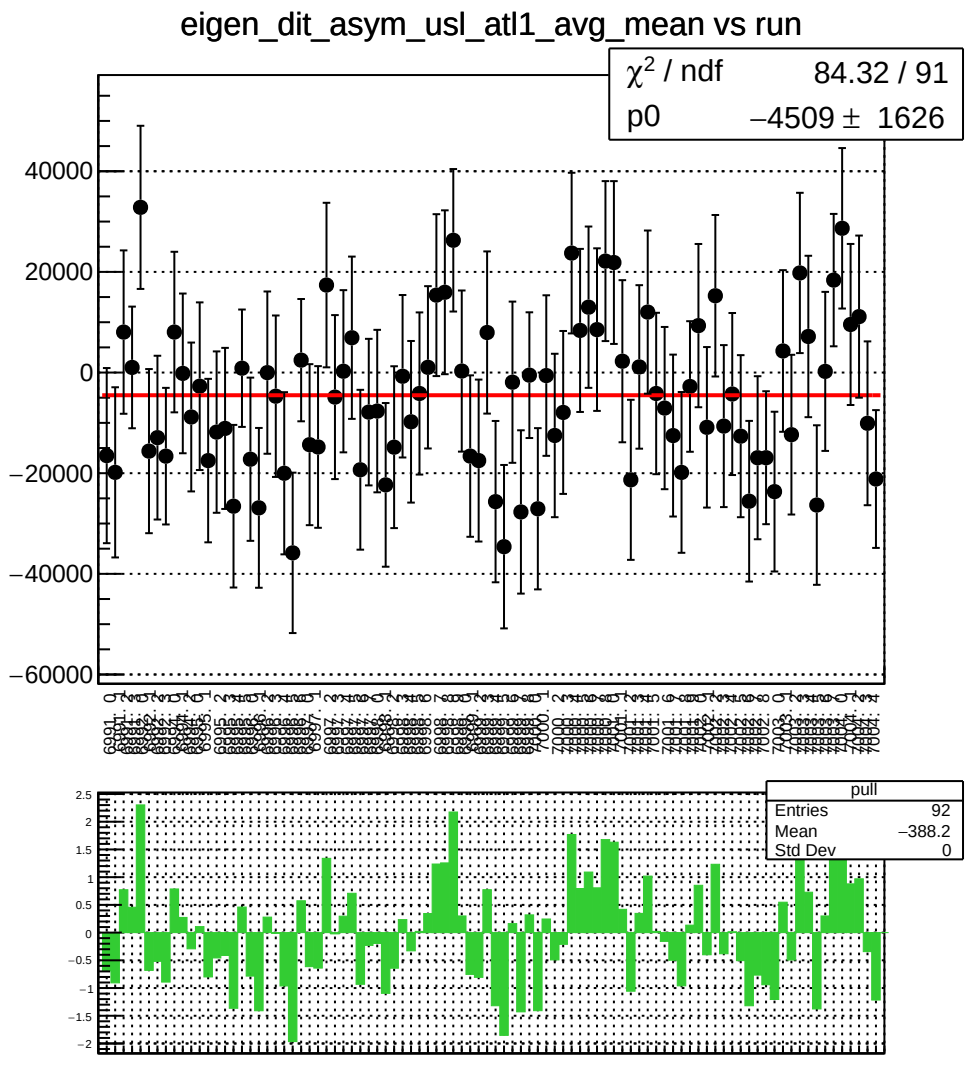

pull1D
Entries 92
Mean −0.007911
Std Dev 0.9573
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

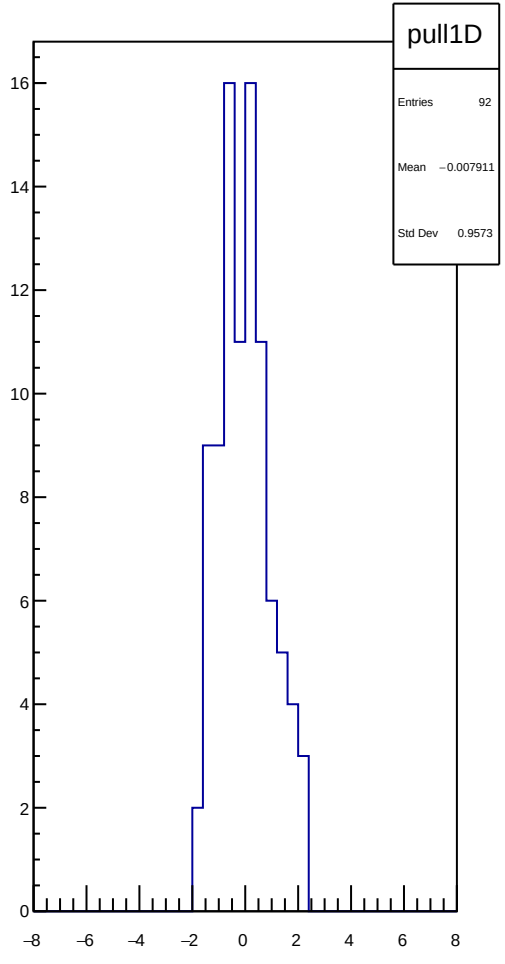

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 323.1 / 91
p0 1528 ± 1.15
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

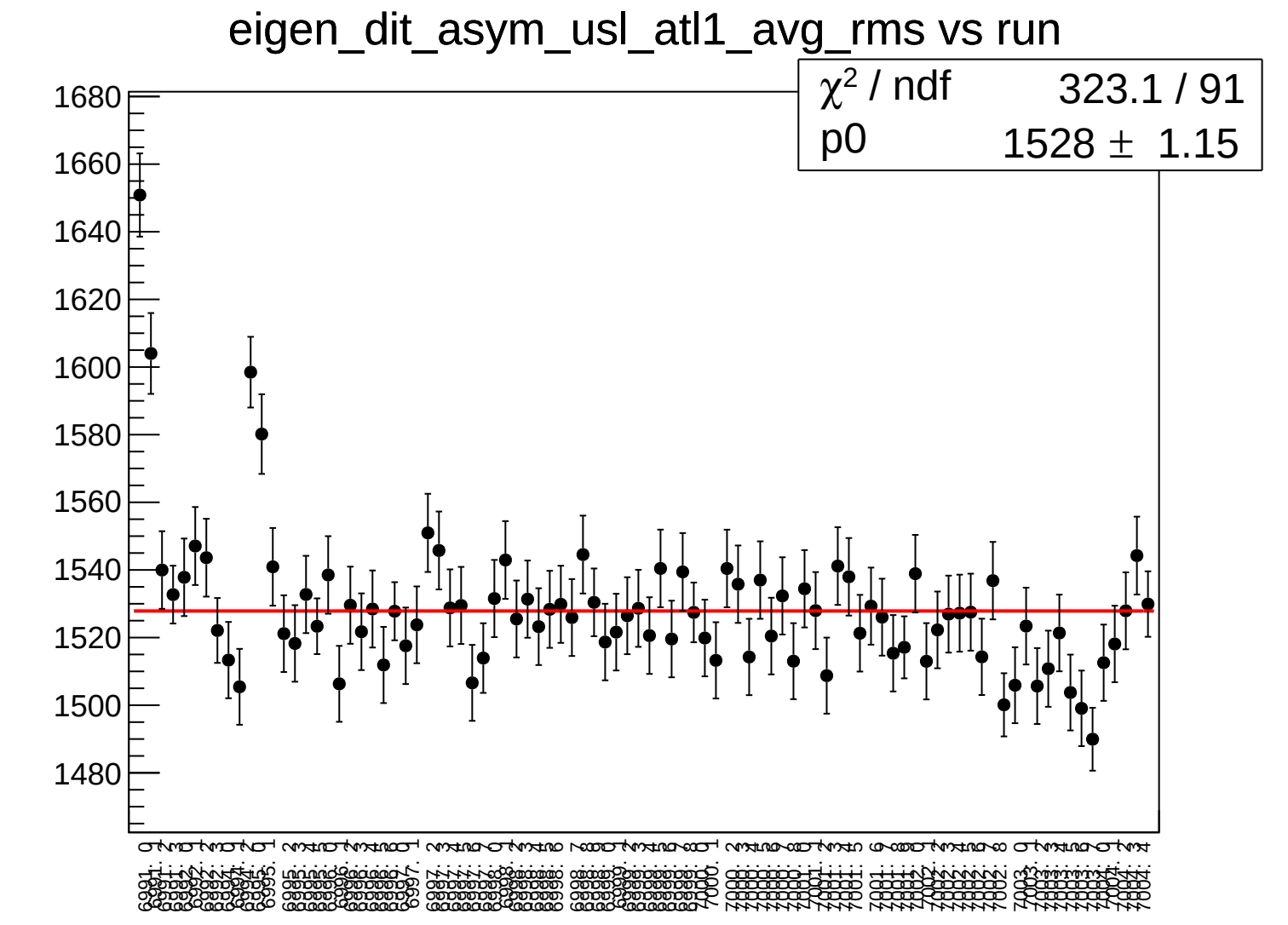

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 108.5 / 91
p0 −971 ± 1069
pull
Entries 92
Mean −5112
Std Dev 0

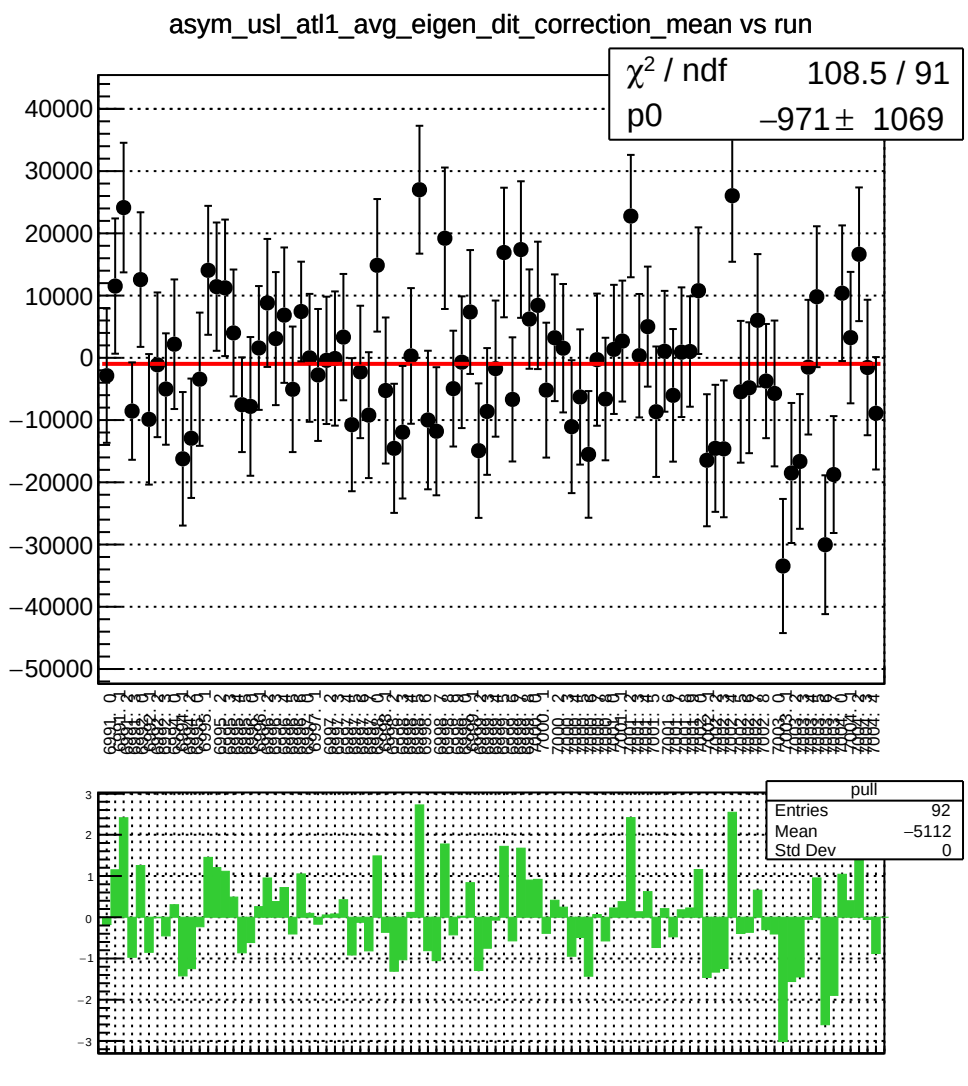

pull1D
Entries 92
Mean 0.0009204
Std Dev 1.086

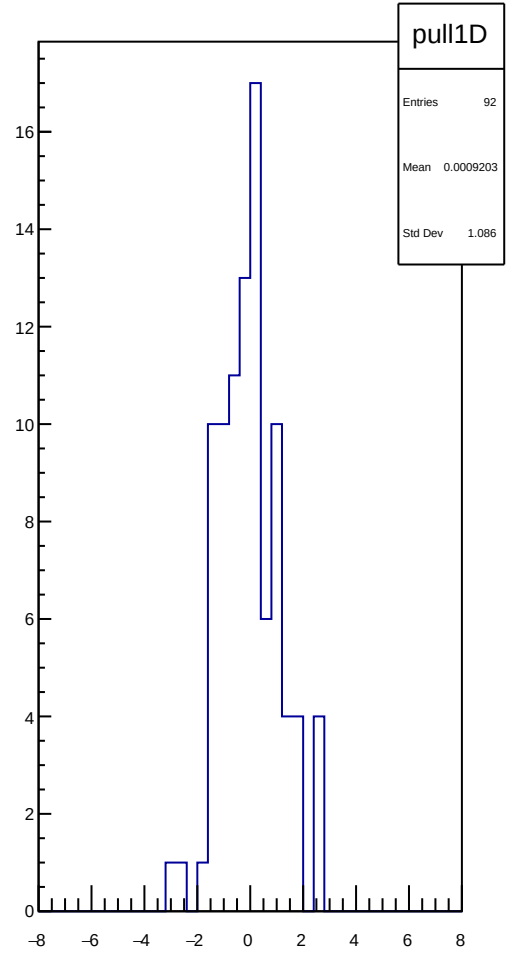

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 2800 / 91
p0 1003 ± 0.7557
1100
1050
1000
950
900

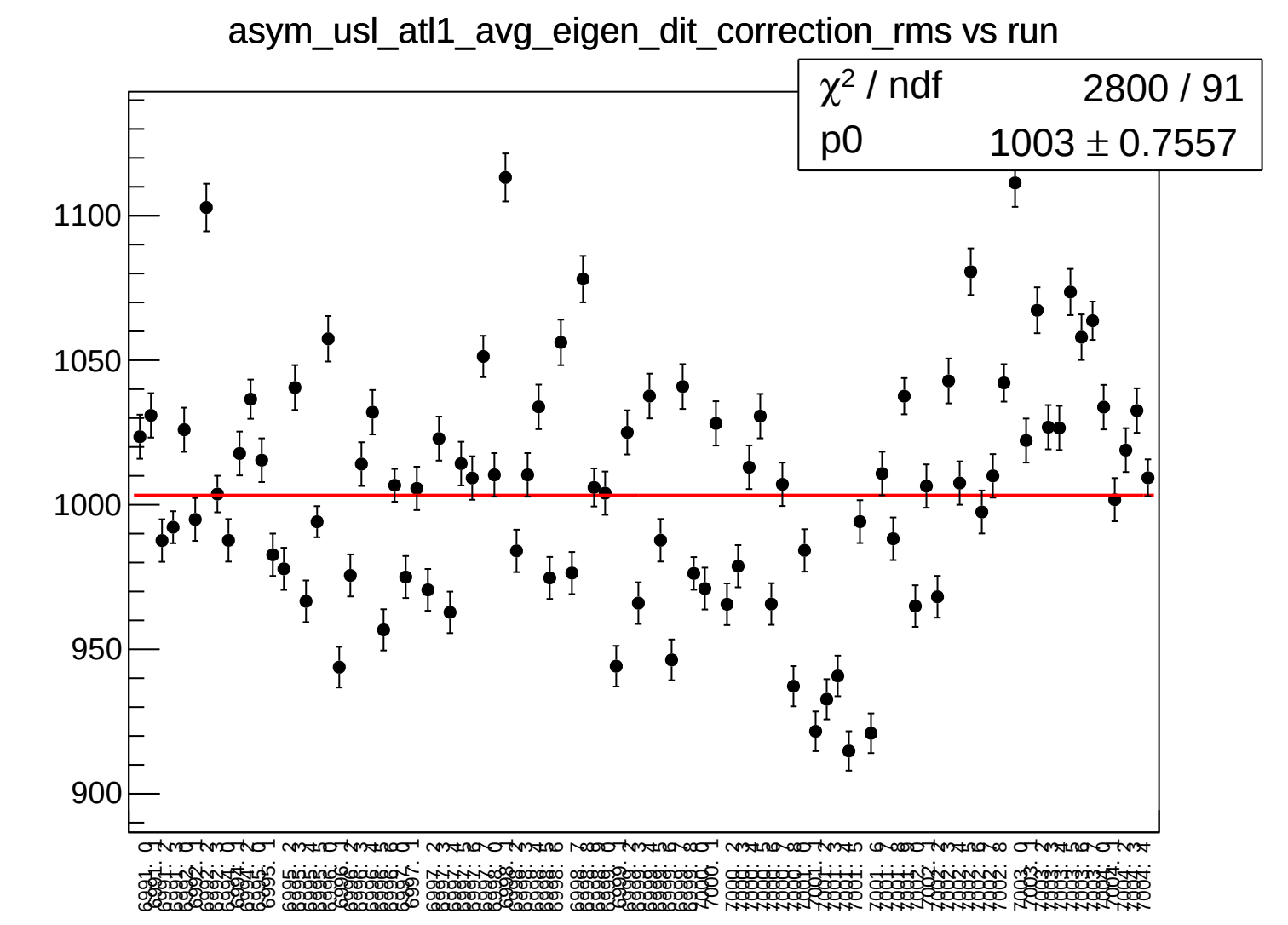

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 84.32 / 91
p0 −4509 ± 1626
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −388.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

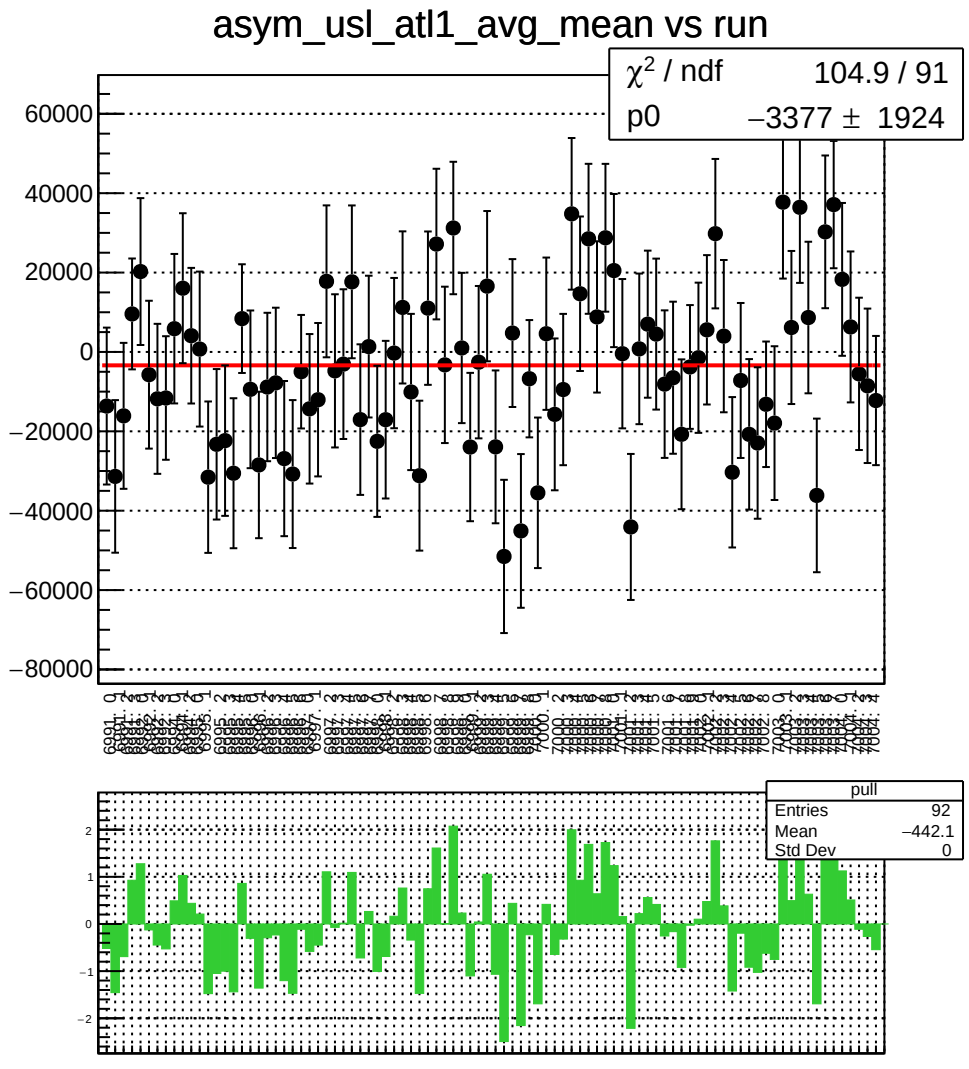

pull1D
Entries 92
Mean −0.007911
Std Dev 0.9573
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

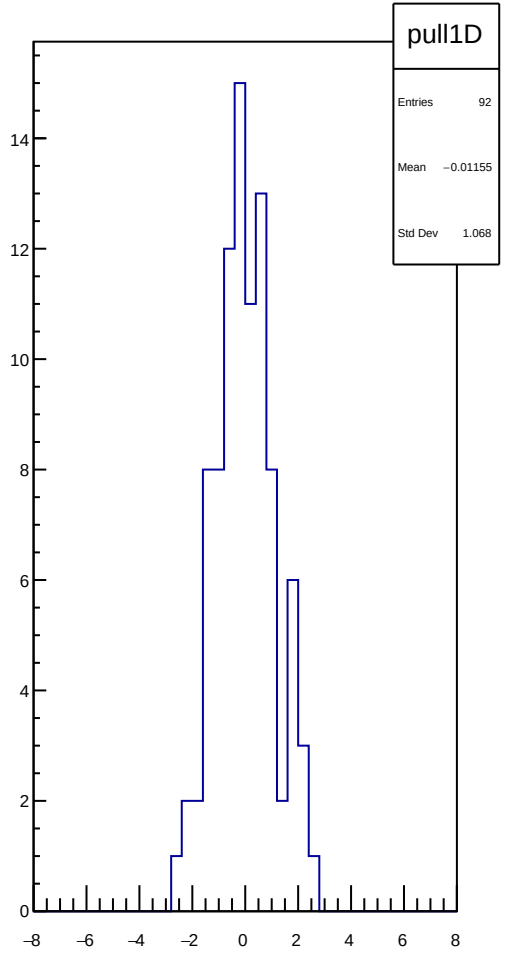

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 323.1 / 91
p0 1528 ± 1.15
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

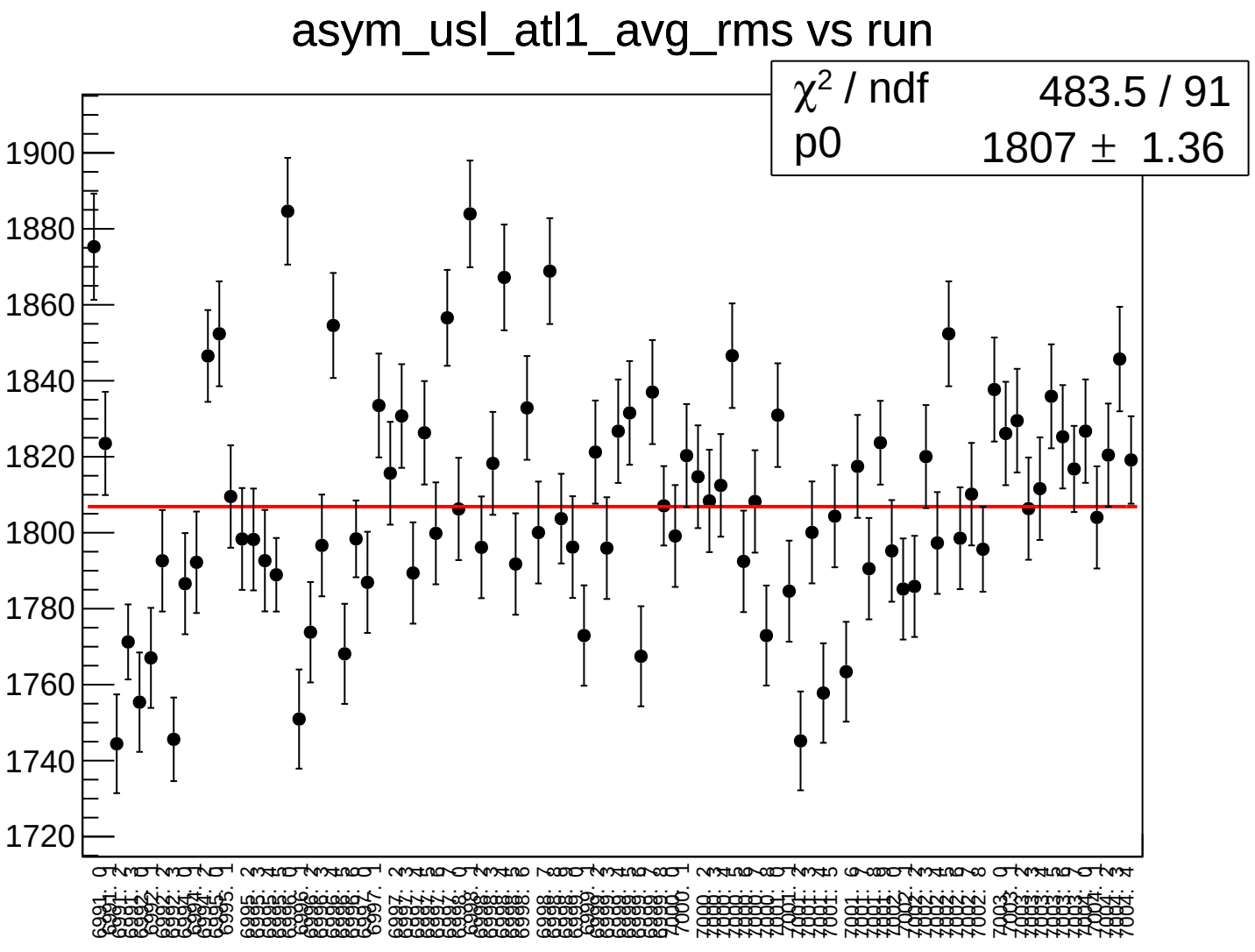

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 108.5 / 91
p0 −971 ± 1069
pull
Entries 92
Mean −5112
Std Dev 0

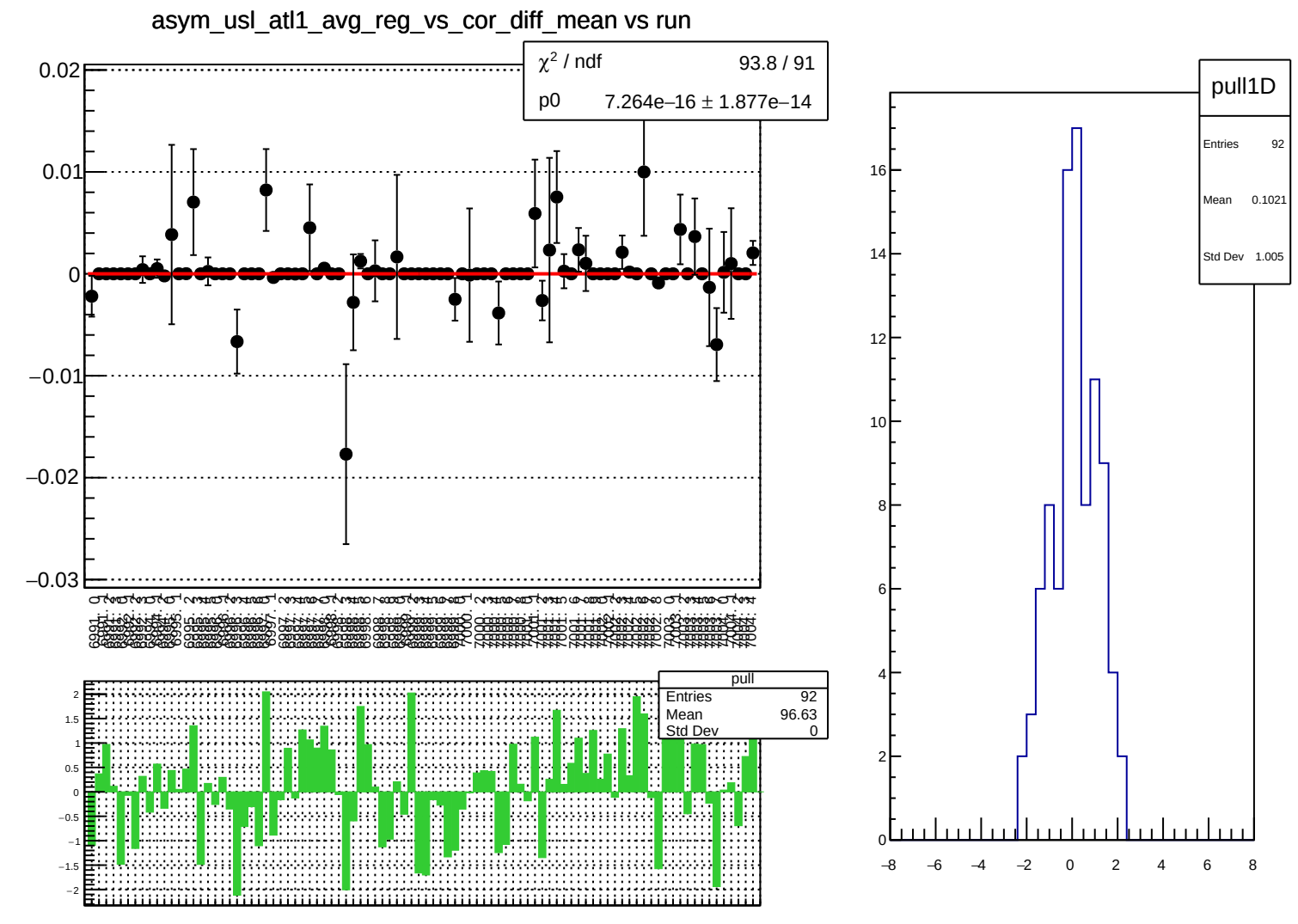

pull1D
Entries 92
Mean 0.0009203
Std Dev 1.086

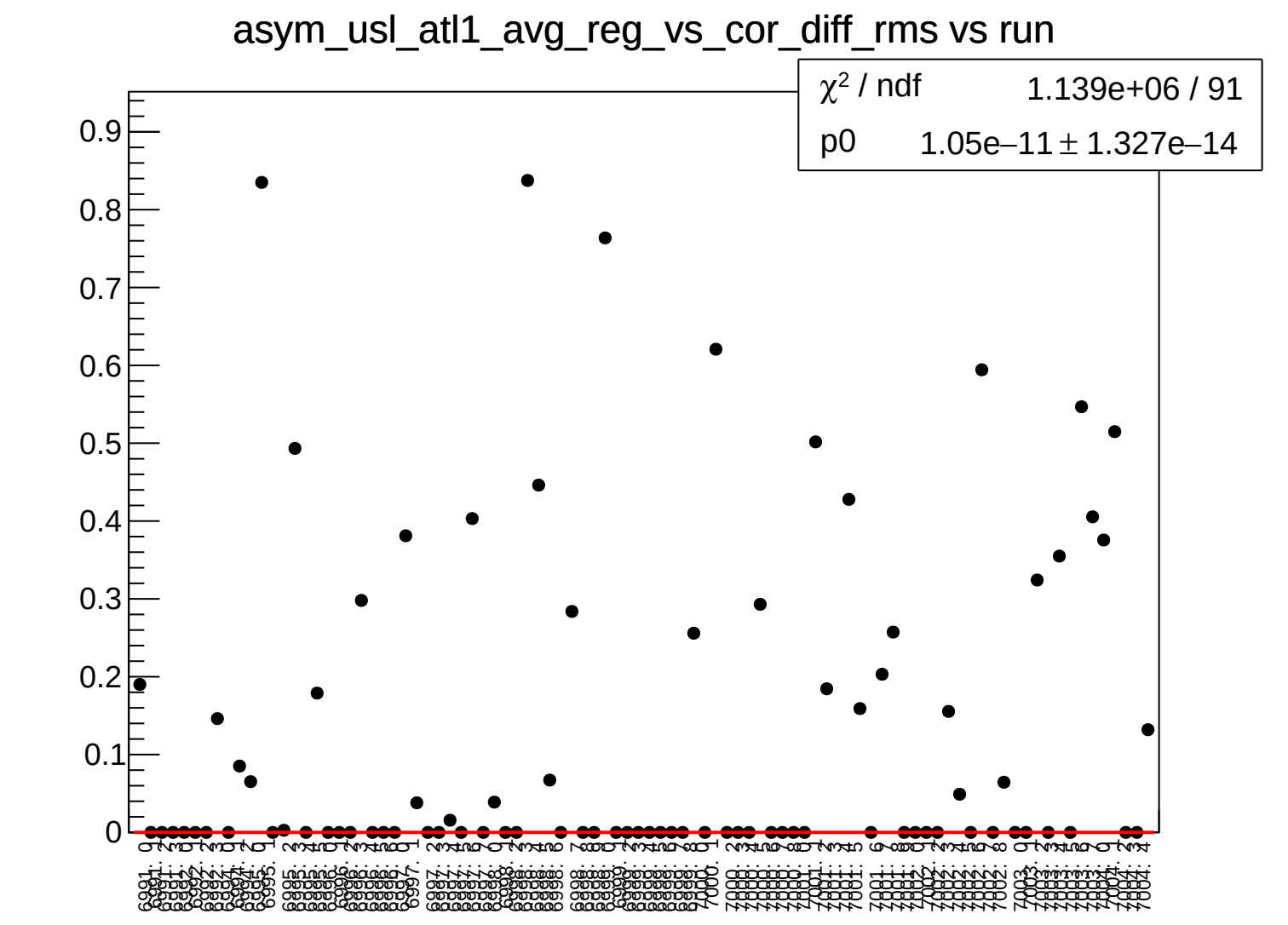

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2800 / 91
p0 1003 ± 0.7557
1100
1050
1000
950
900

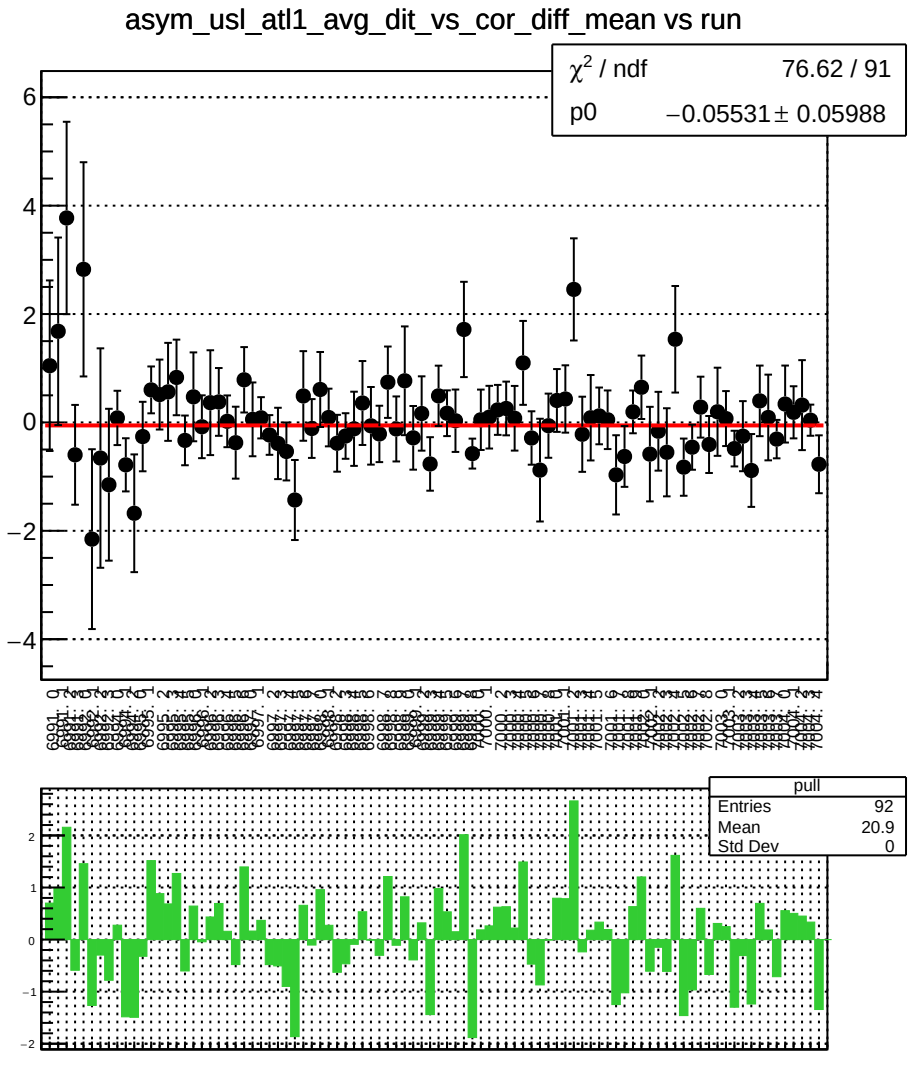

asym_usl_atl1_avg_mean vs run
χ² / ndf 104.9 / 91
p0 −3377 ± 1924
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −442.1
Std Dev 0
2
1
0
−1
−2

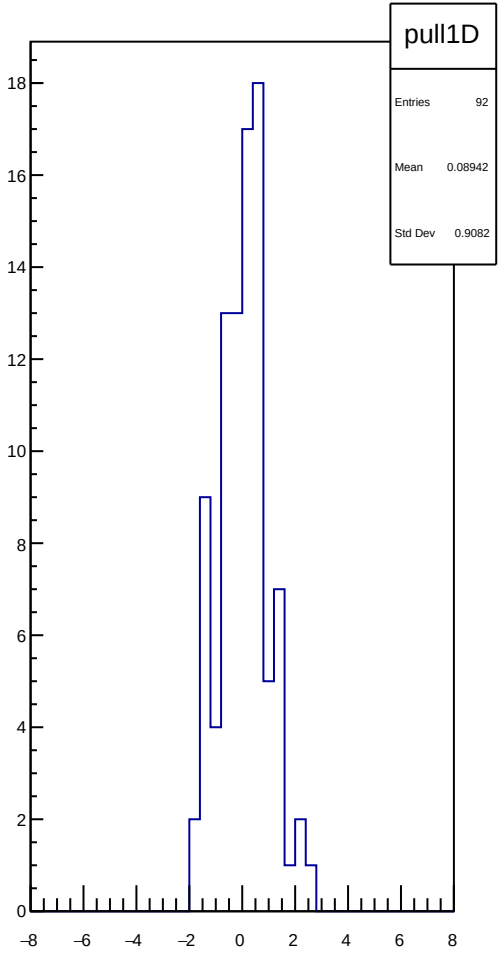

pull1D
Entries 92
Mean −0.01155
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

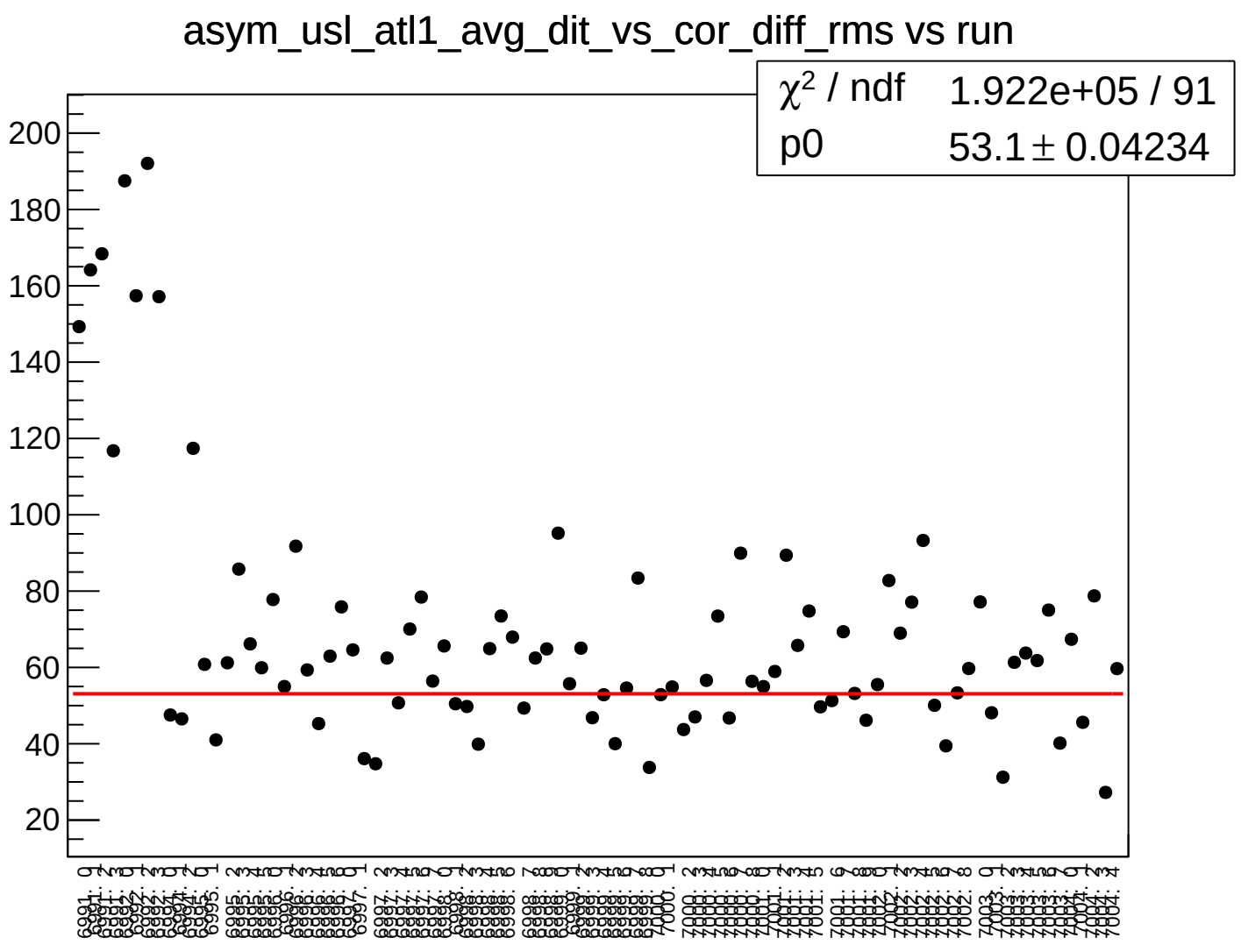

asym_usl_atl1_avg_rms vs run
χ² / ndf 483.5 / 91
p0 1807 ± 1.36
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

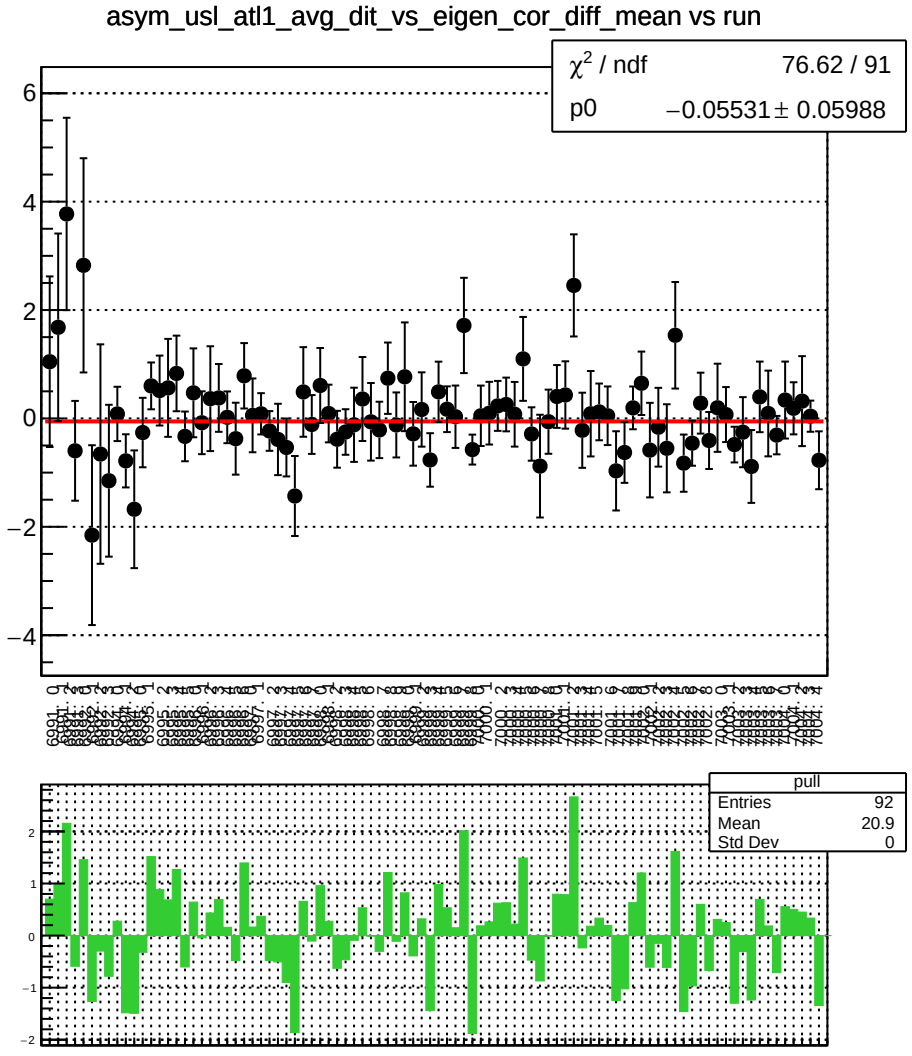

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.8 / 91
p0 7.264e−16 ± 1.877e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 96.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.1021
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

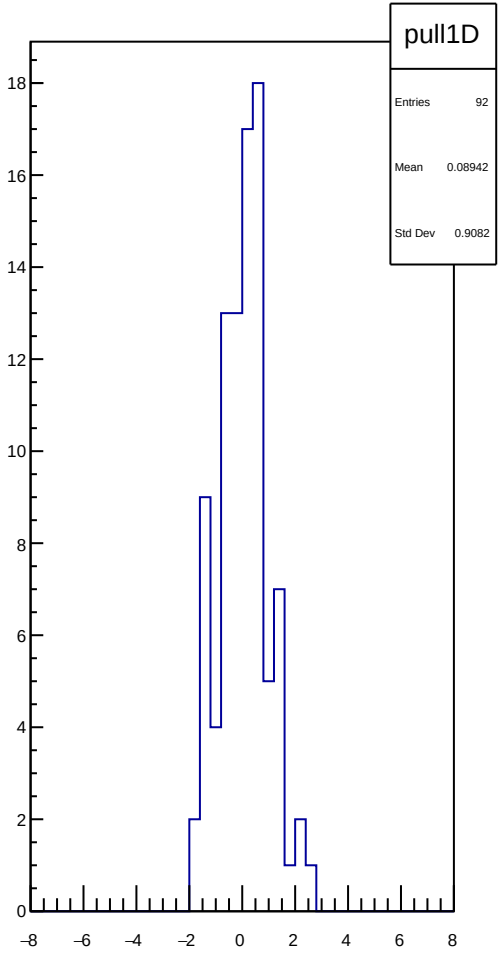

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 91
p0 1.05e−11 ± 1.327e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

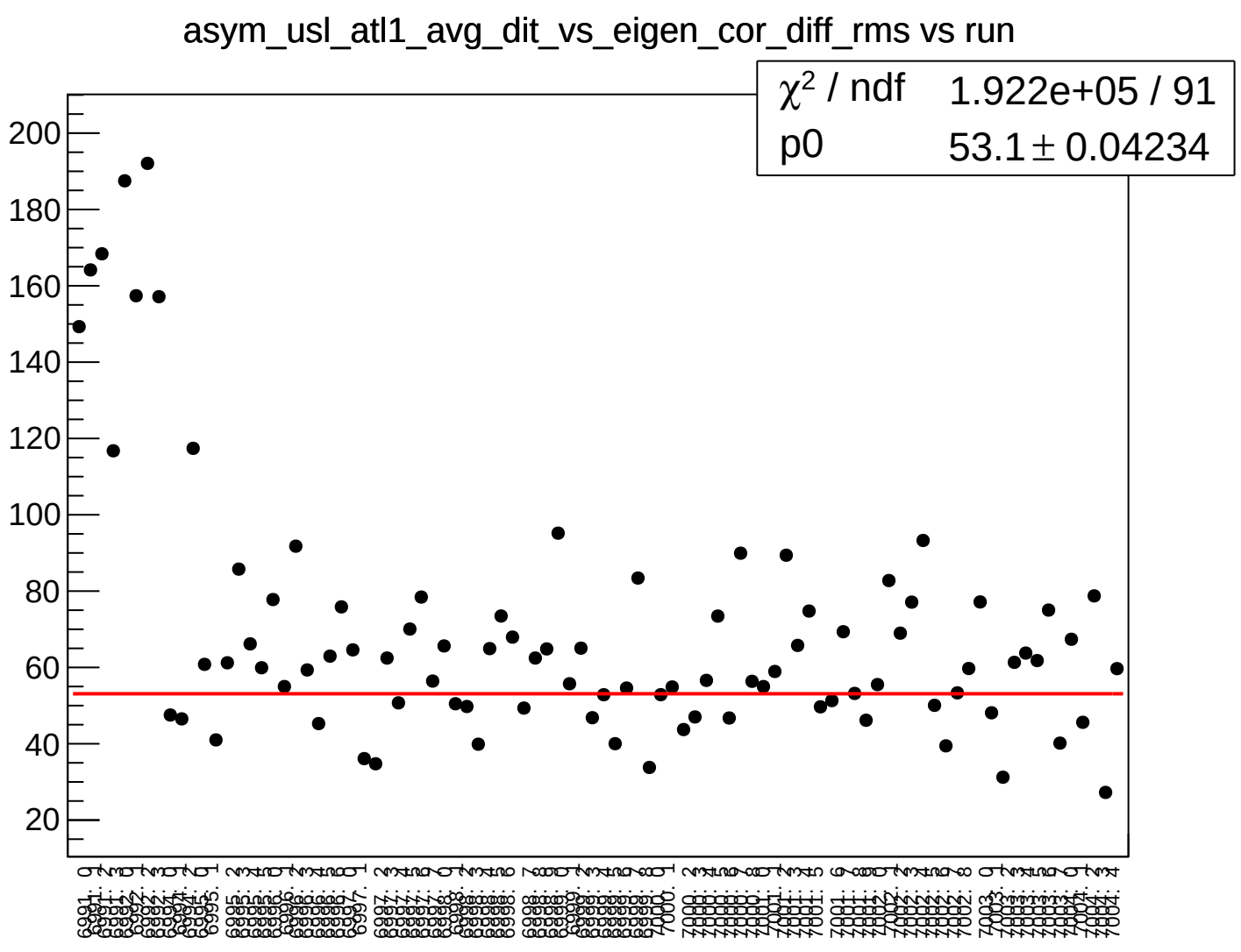

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.62 / 91
p0 −0.05531 ± 0.05988
pull
Entries 92
Mean 20.9
Std Dev 0

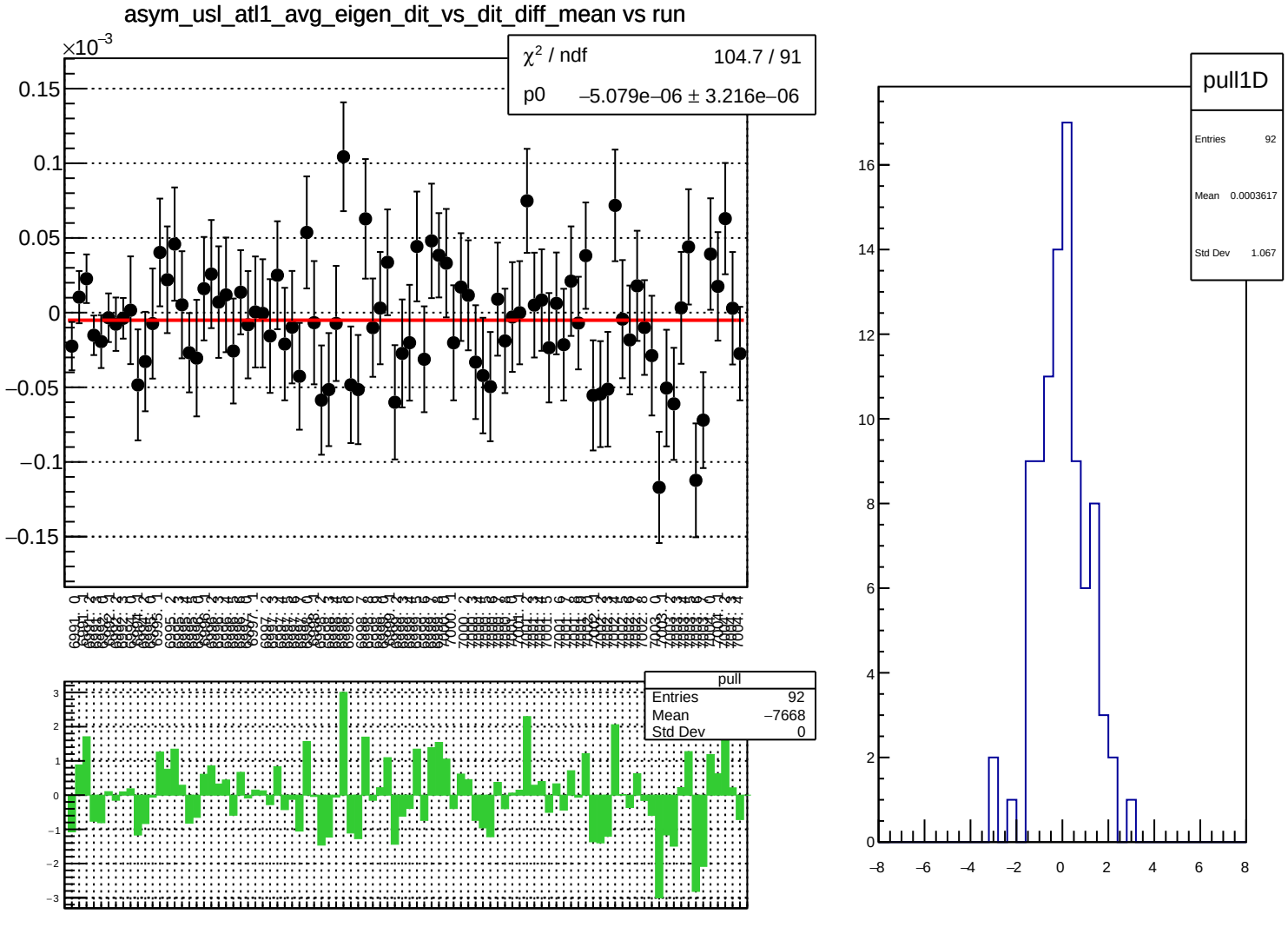

pull1D
Entries 92
Mean 0.08942
Std Dev 0.9082

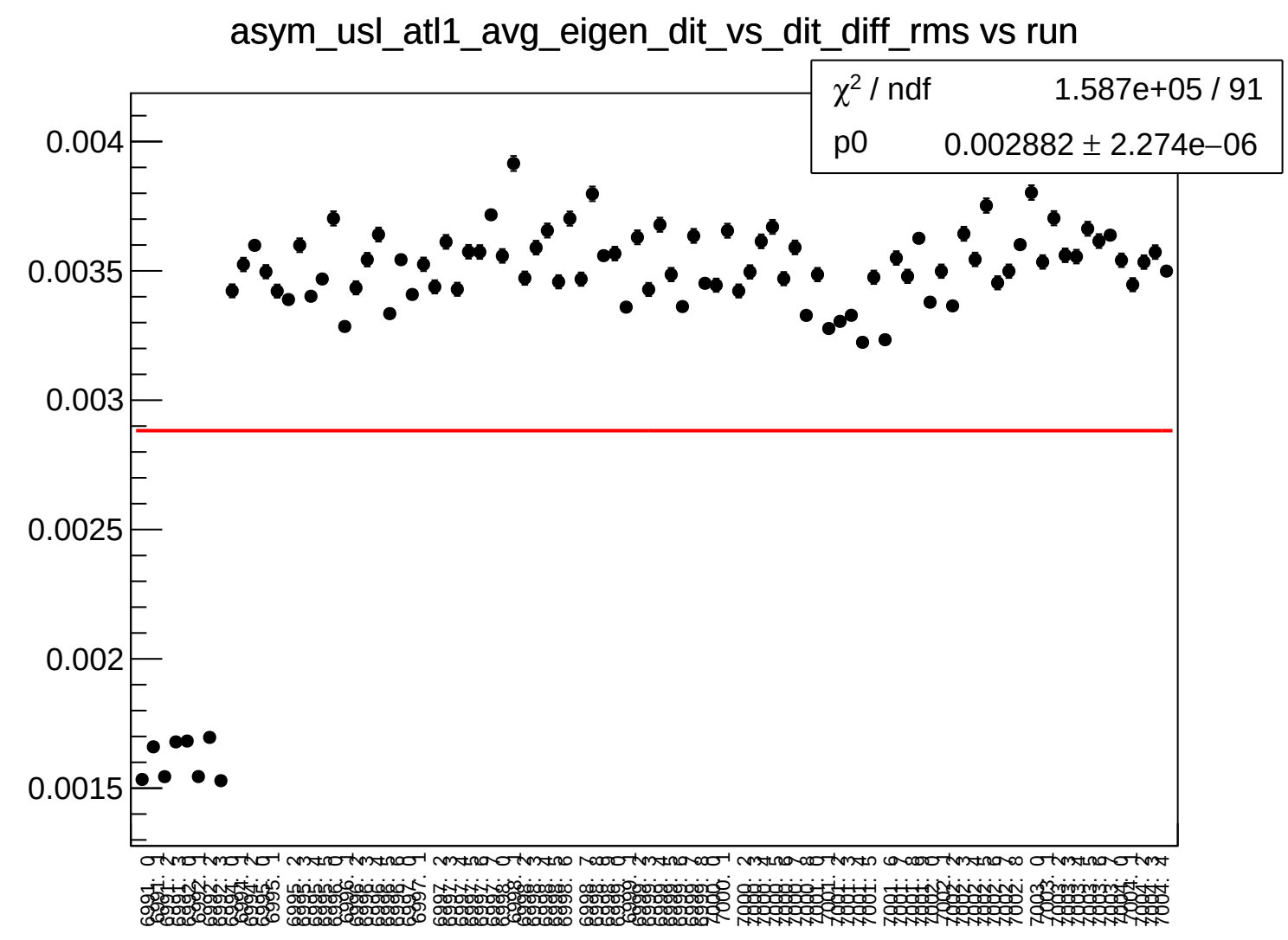

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.922e+05 / 91
p0 53.1 ± 0.04234
200
180
160
140
120
100
80
60
40
20

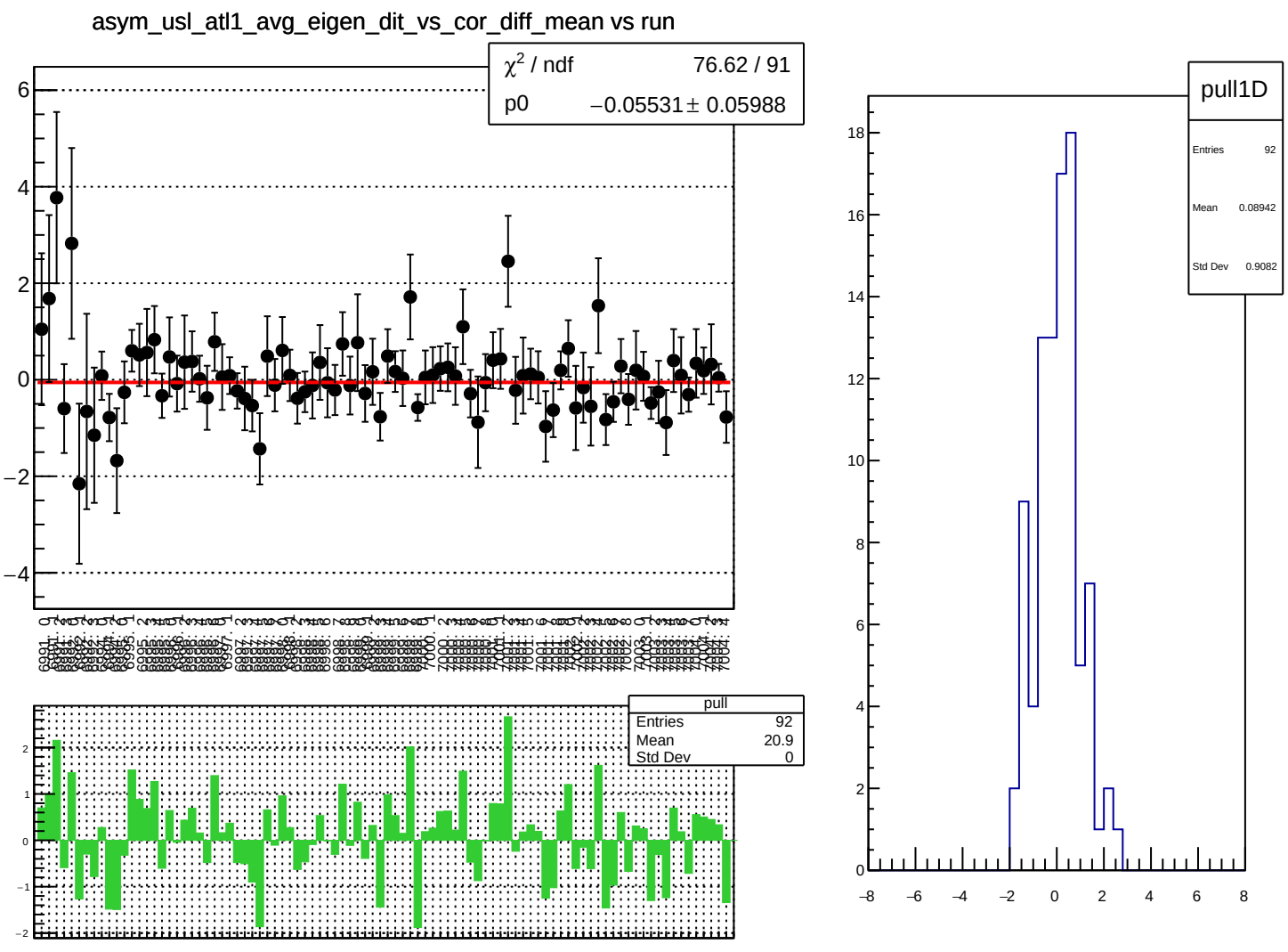

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.62 / 91
p0 −0.05531 ± 0.05988
pull
Entries 92
Mean 20.9
Std Dev 0

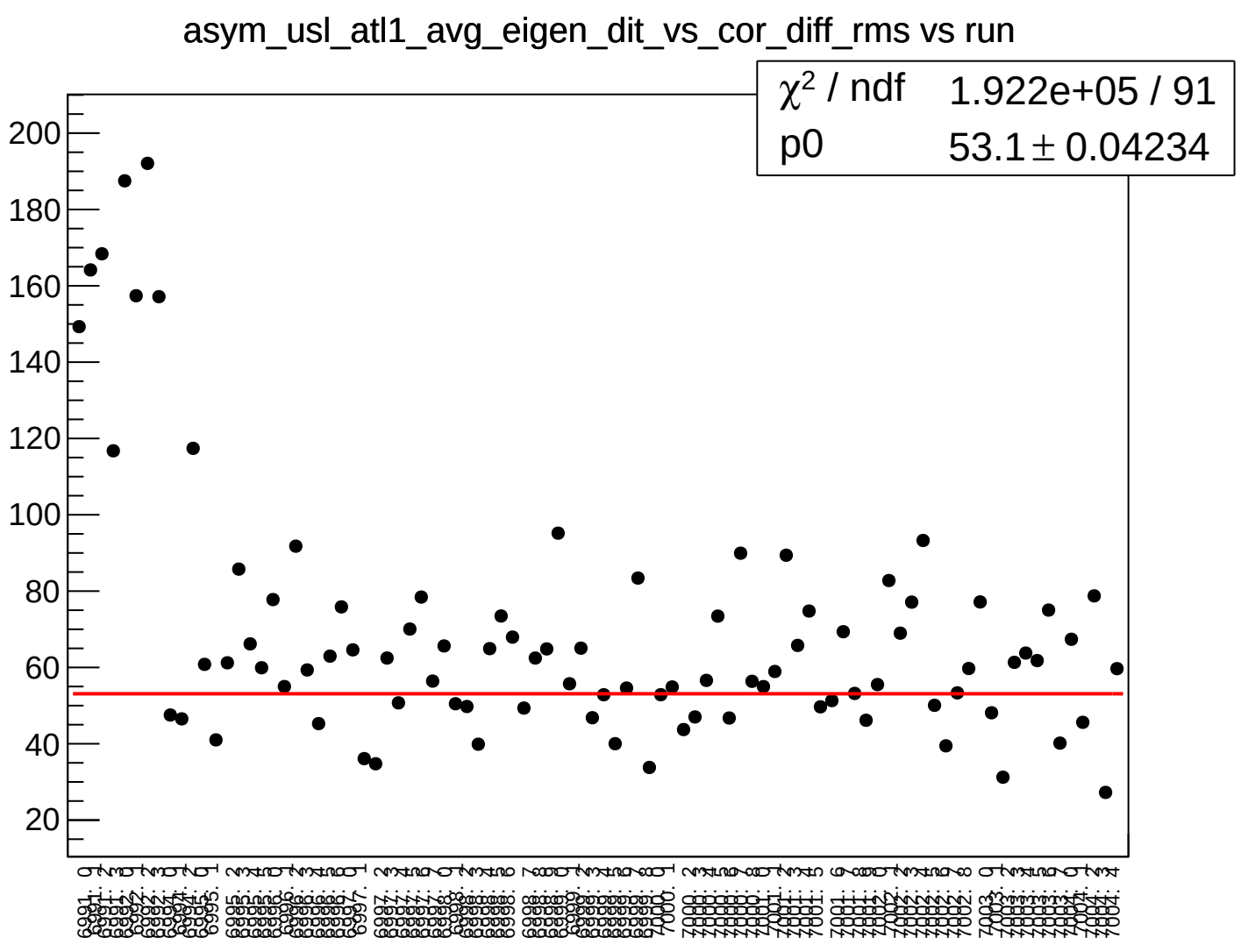

pull1D
Entries 92
Mean 0.08942
Std Dev 0.9082

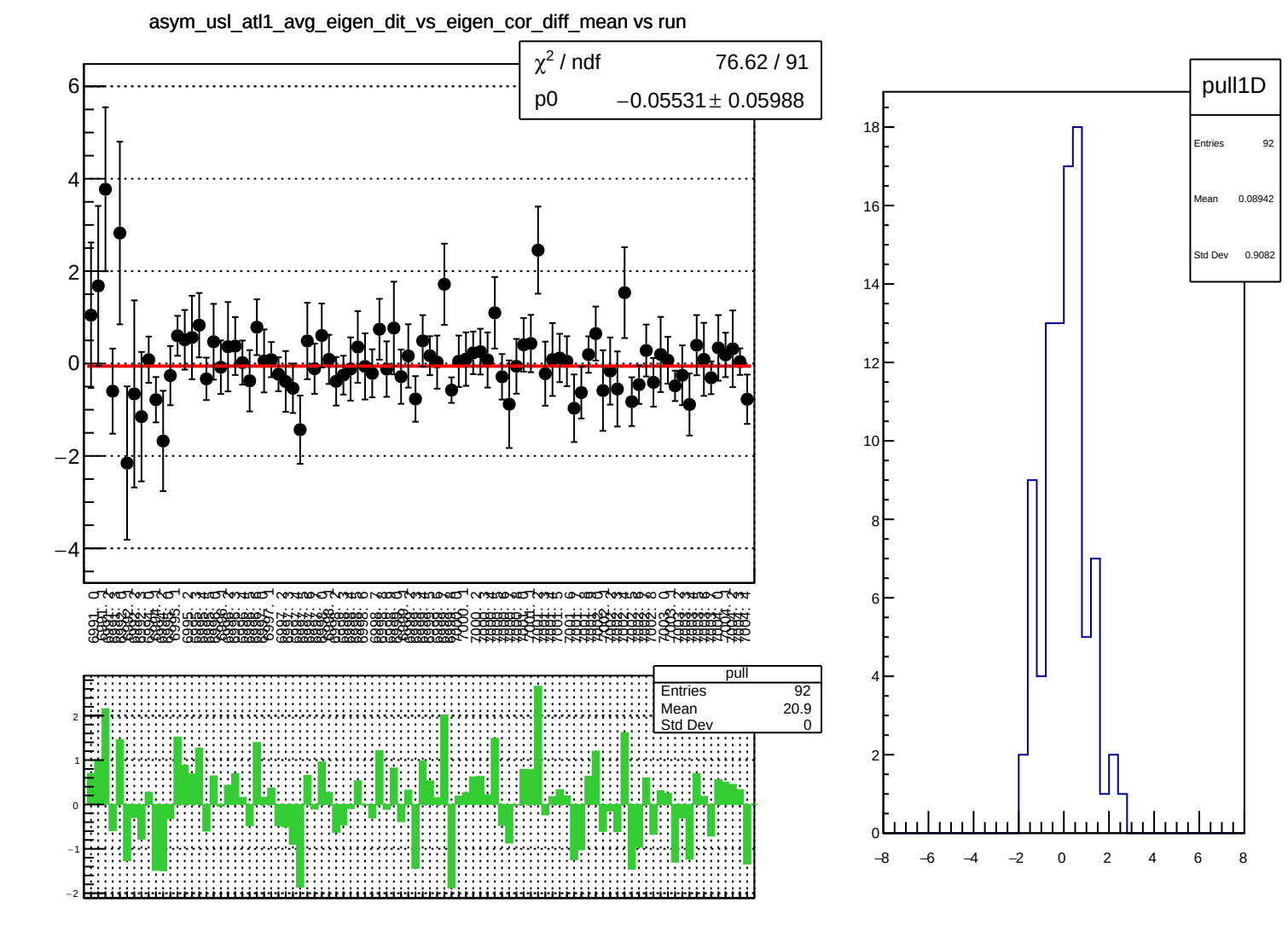

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.922e+05 / 91
p0 53.1 ± 0.04234
200
180
160
140
120
100
80
60
40
20

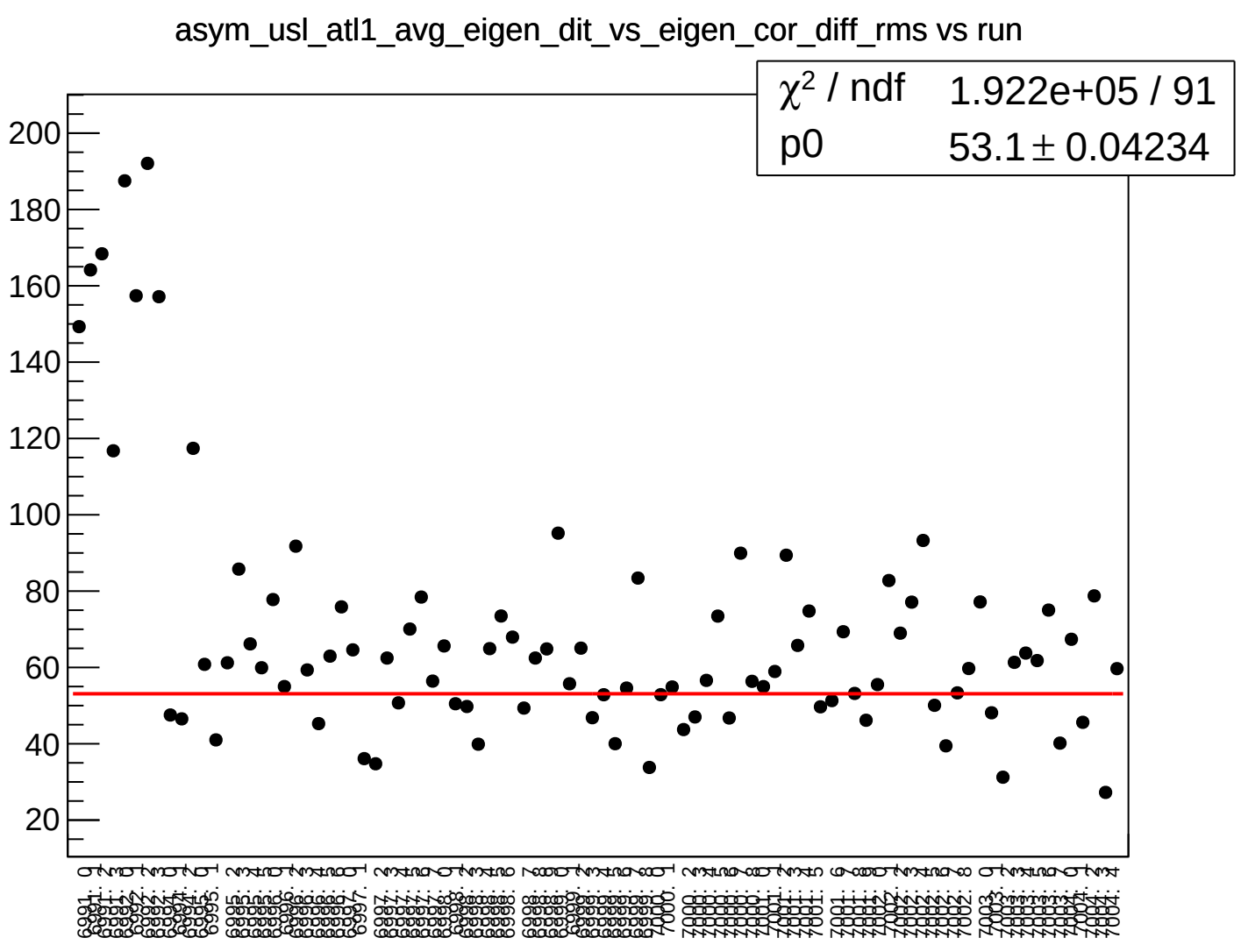

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 104.7 / 91
p0 −5.079e−06 ± 3.216e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −7668
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0003617
Std Dev 1.067
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

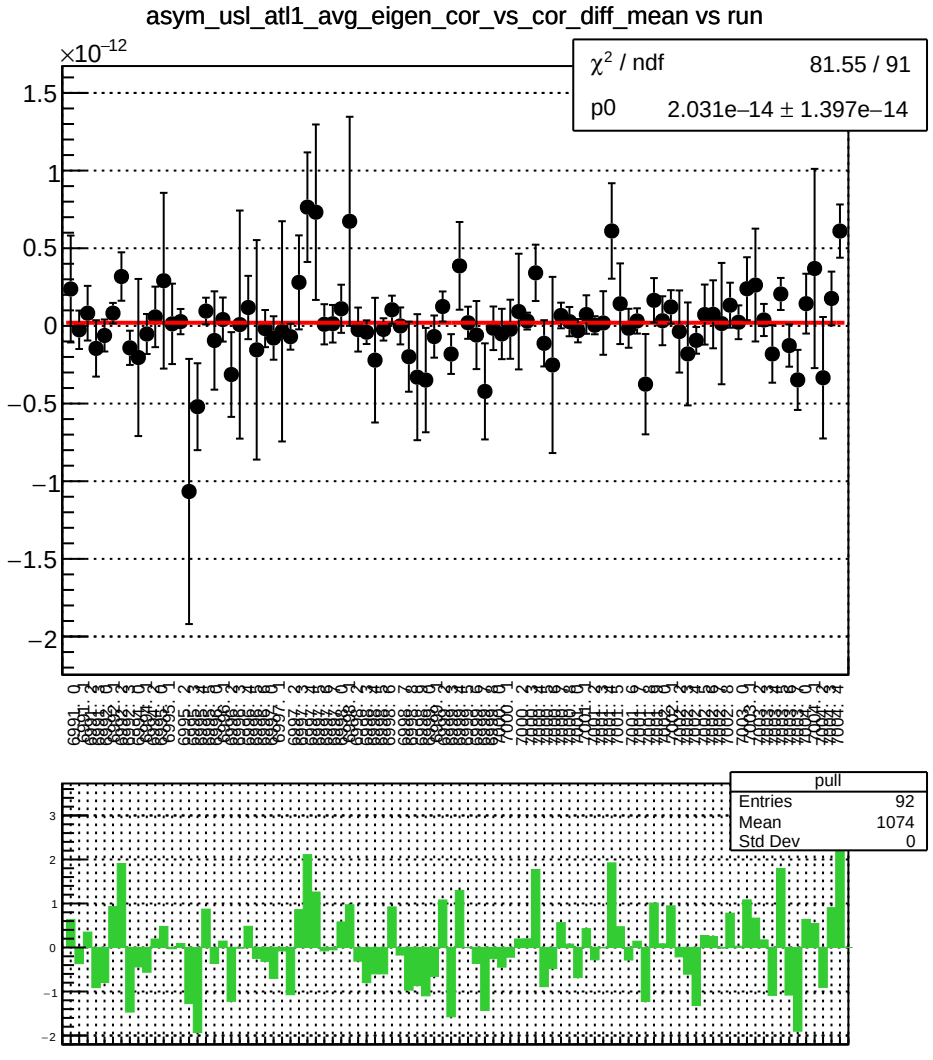

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.587e+05 / 91
p0 0.002882 ± 2.274e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

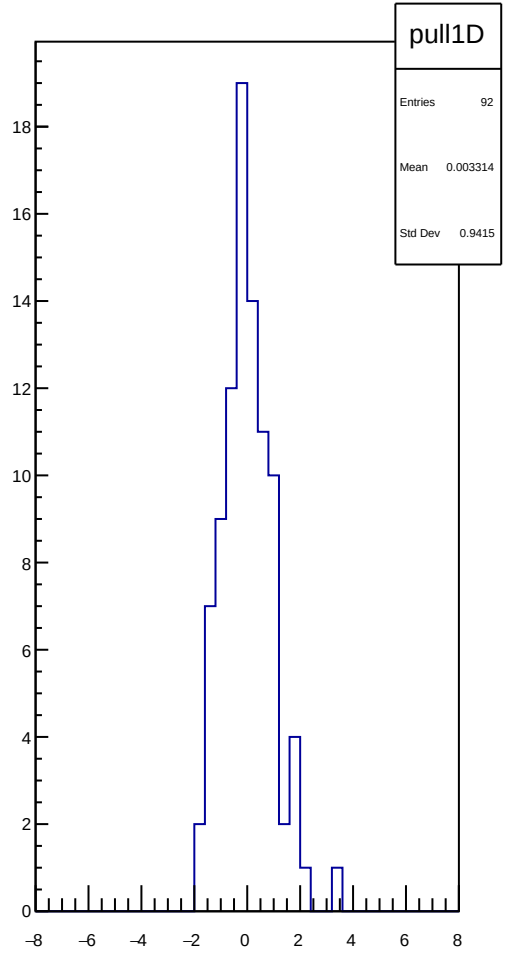

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.62 / 91
p0 −0.05531 ± 0.05988
pull
Entries 92
Mean 20.9
Std Dev 0
pull1D
Entries 92
Mean 0.08942
Std Dev 0.9082

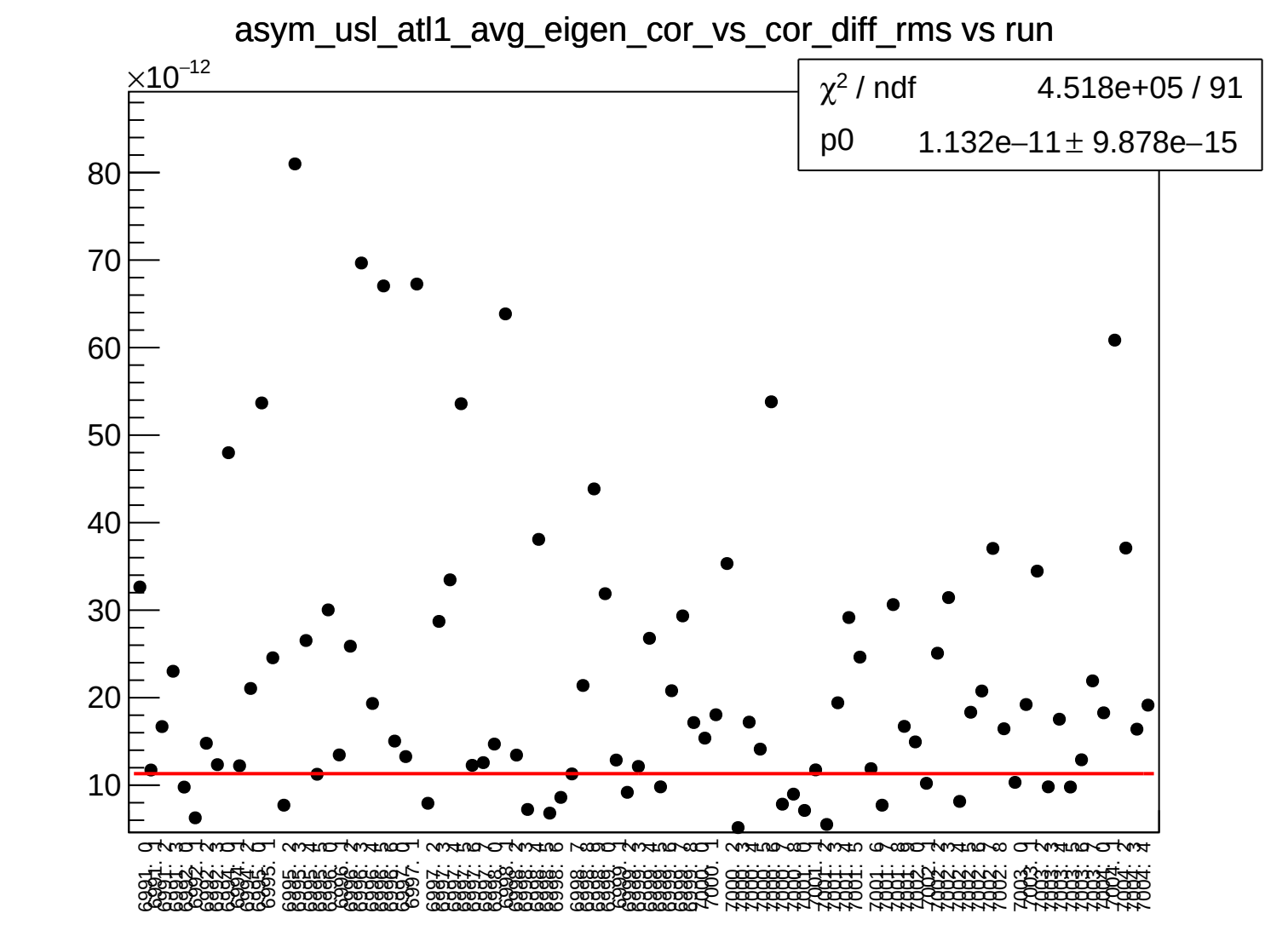

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.922e+05 / 91
p0 53.1 ± 0.04234
200
180
160
140
120
100
80
60
40
20

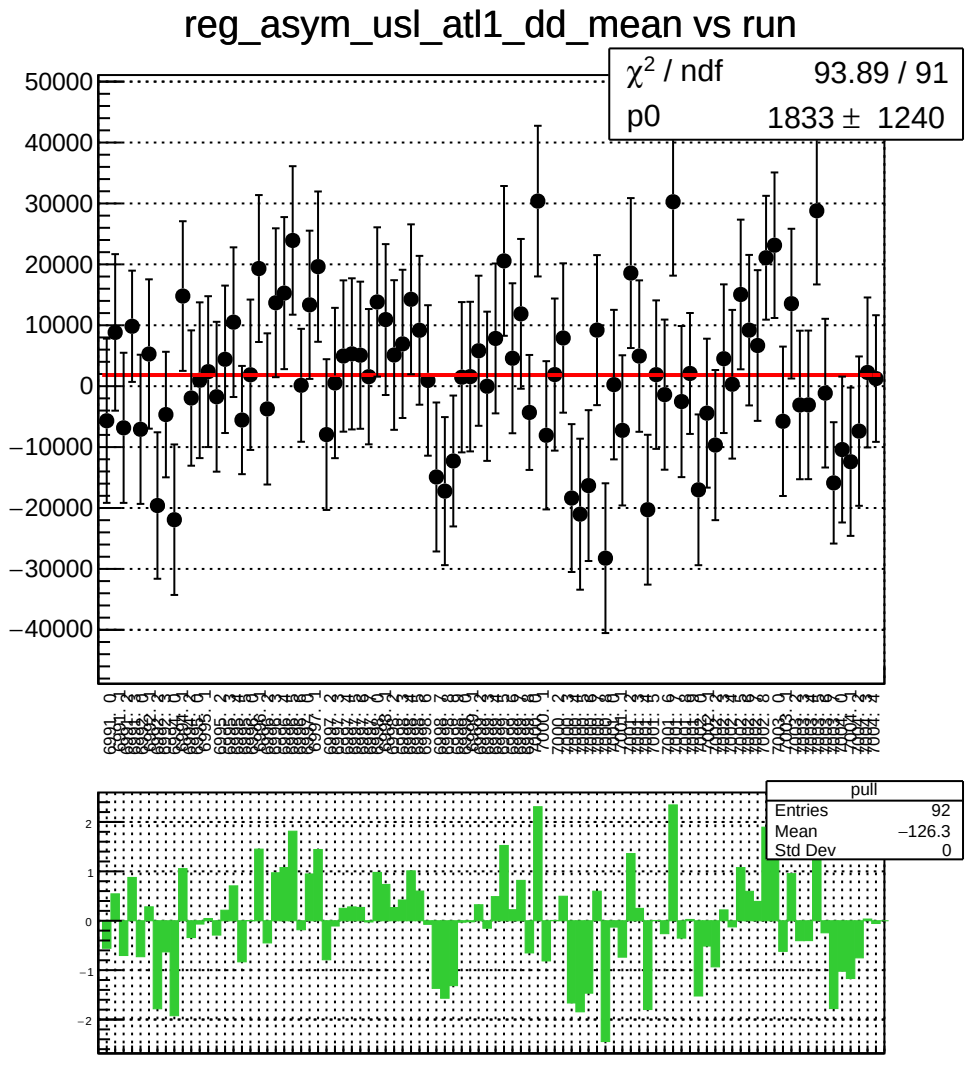

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.62 / 91
p0 −0.05531 ± 0.05988
pull
Entries 92
Mean 20.9
Std Dev 0
pull1D
Entries 92
Mean 0.08942
Std Dev 0.9082

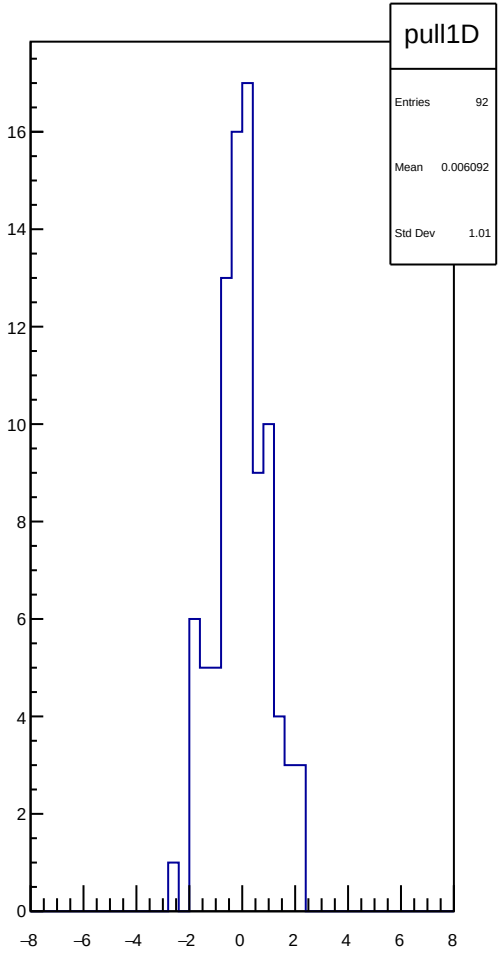

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.922e+05 / 91
p0 53.1 ± 0.04234
200
180
160
140
120
100
80
60
40
20

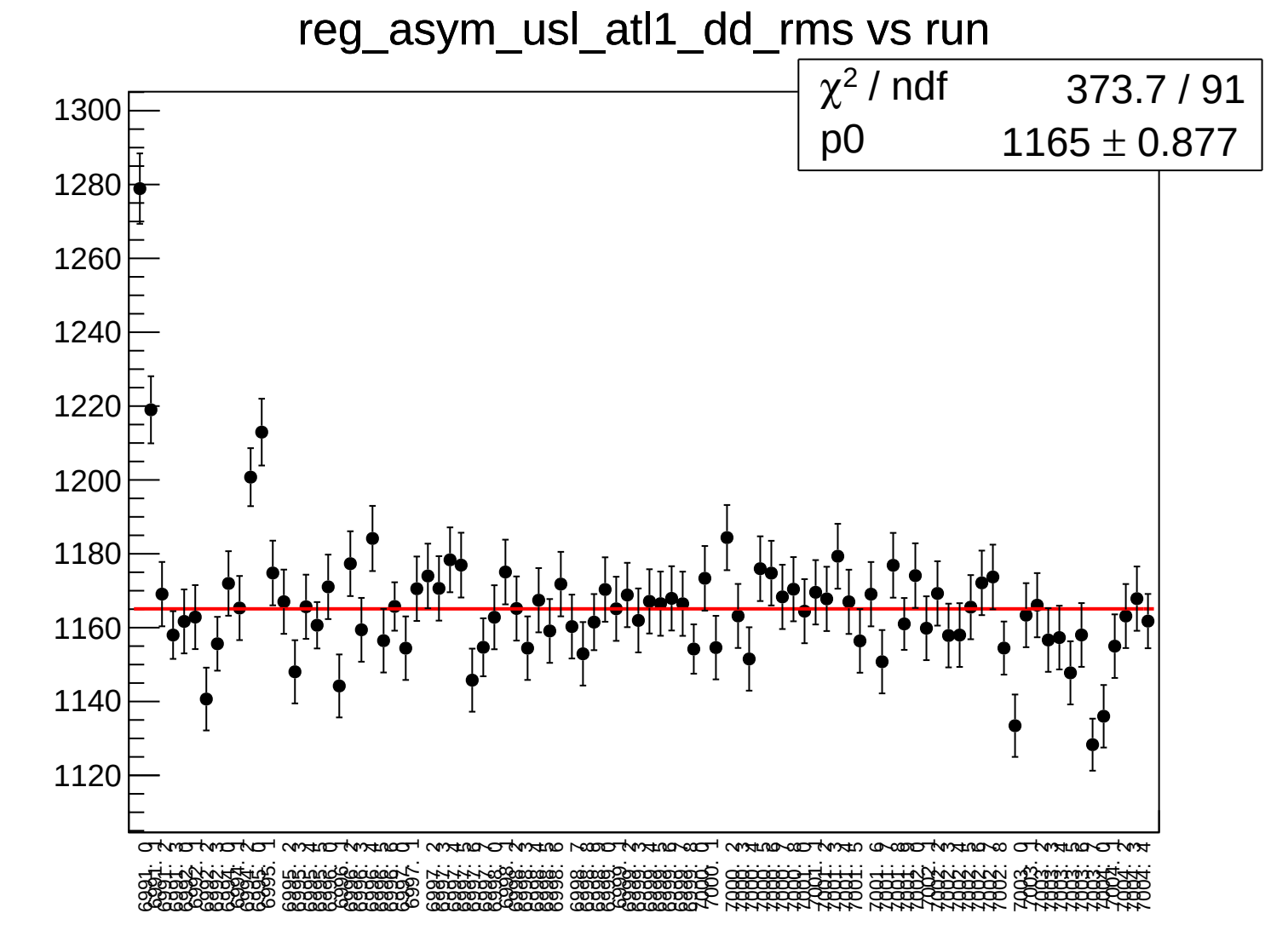

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.55 / 91
p0 2.031e−14 ± 1.397e−14
pull
Entries 92
Mean 1074
Std Dev 0

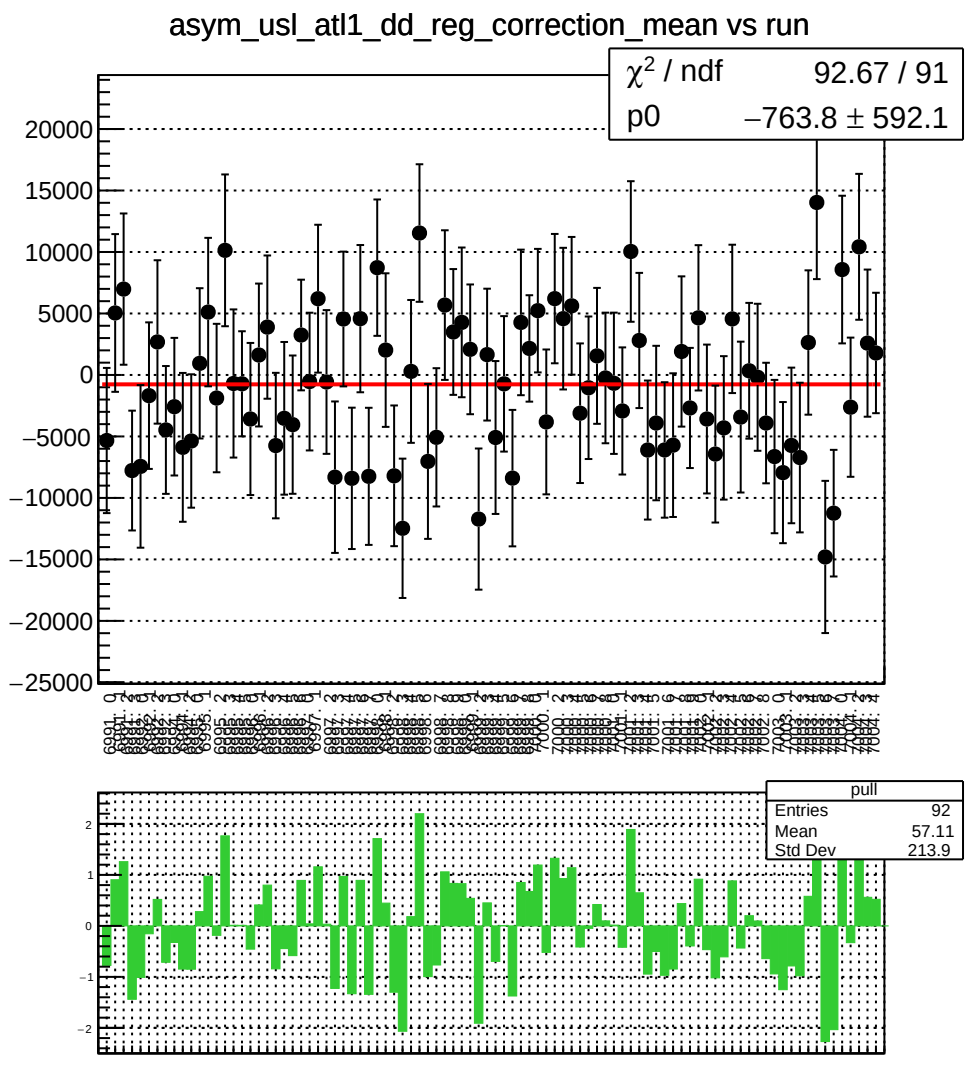

pull1D
Entries 92
Mean 0.003314
Std Dev 0.9415

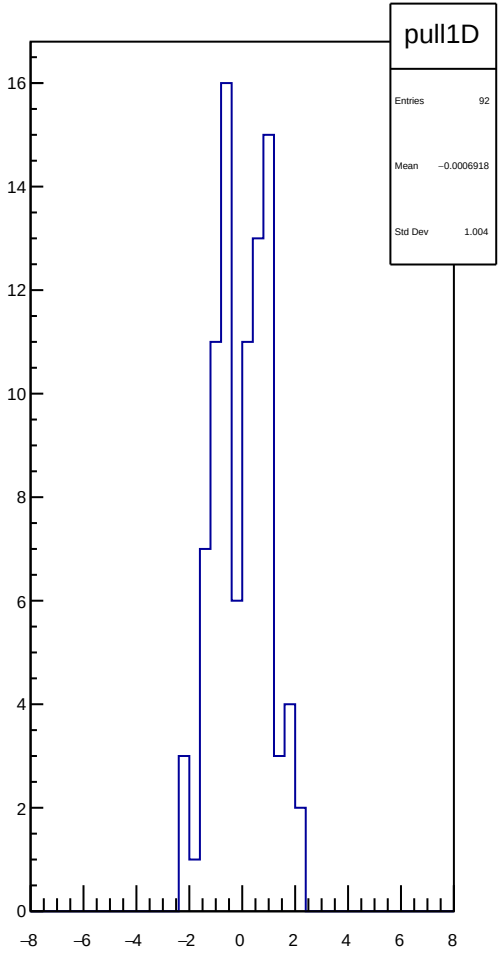

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.518e+05 / 91
p0 1.132e−11 ± 9.878e−15
80
70
60
50
40
30
20
10

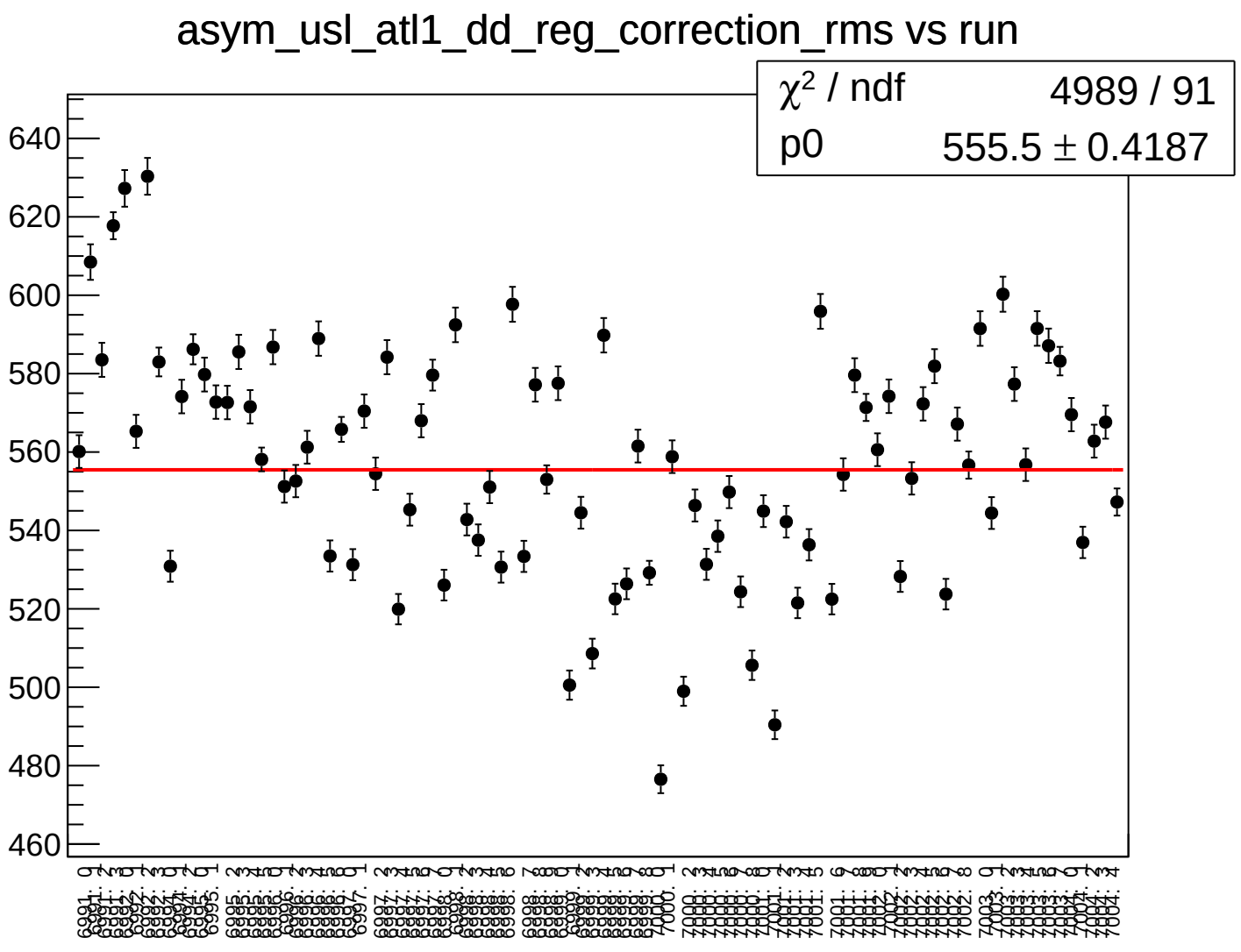

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 93.89 / 91
p0 1833 ± 1240
pull
Entries 92
Mean −126.3
Std Dev 0

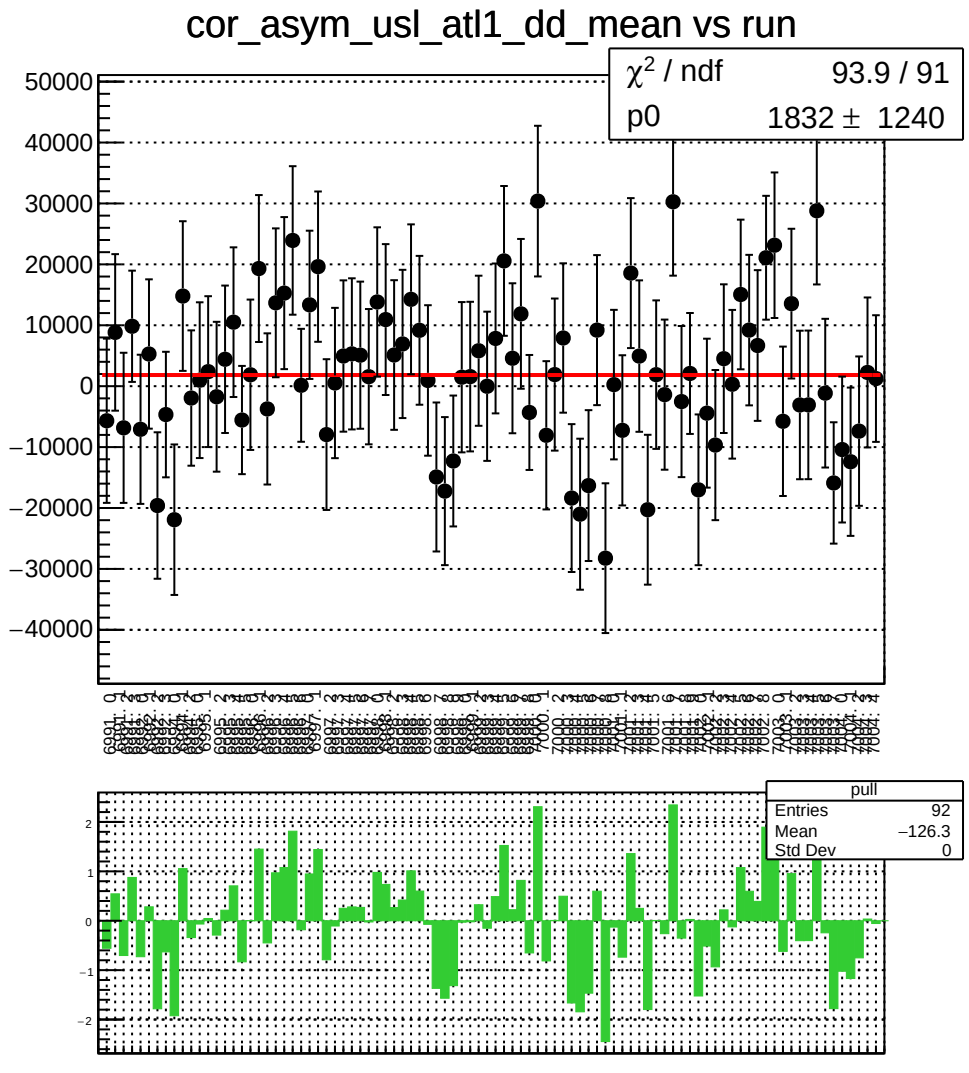

pull1D
Entries 92
Mean 0.006092
Std Dev 1.01

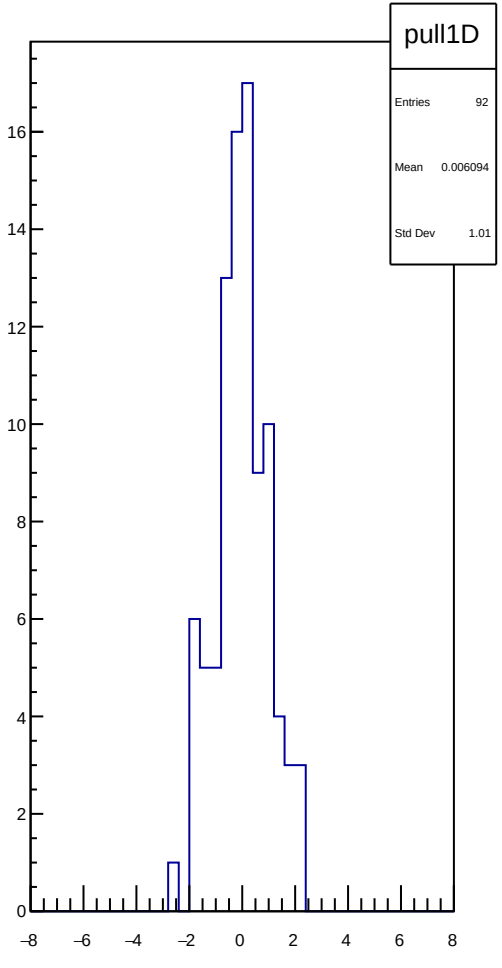

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 373.7 / 91
p0 1165 ± 0.877
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

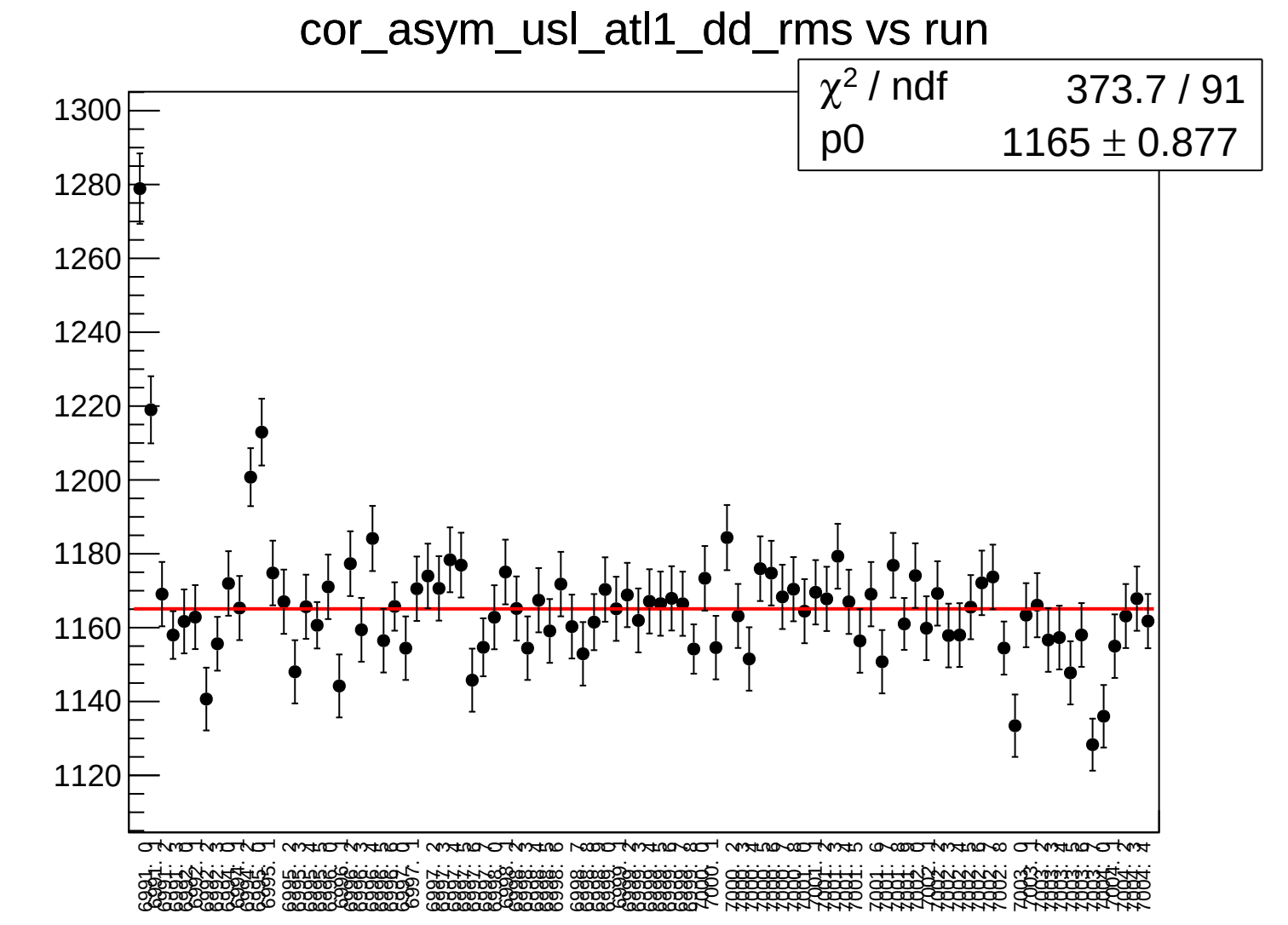

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 92.67 / 91
p0 −763.8 ± 592.1
pull
Entries 92
Mean 57.11
Std Dev 213.9

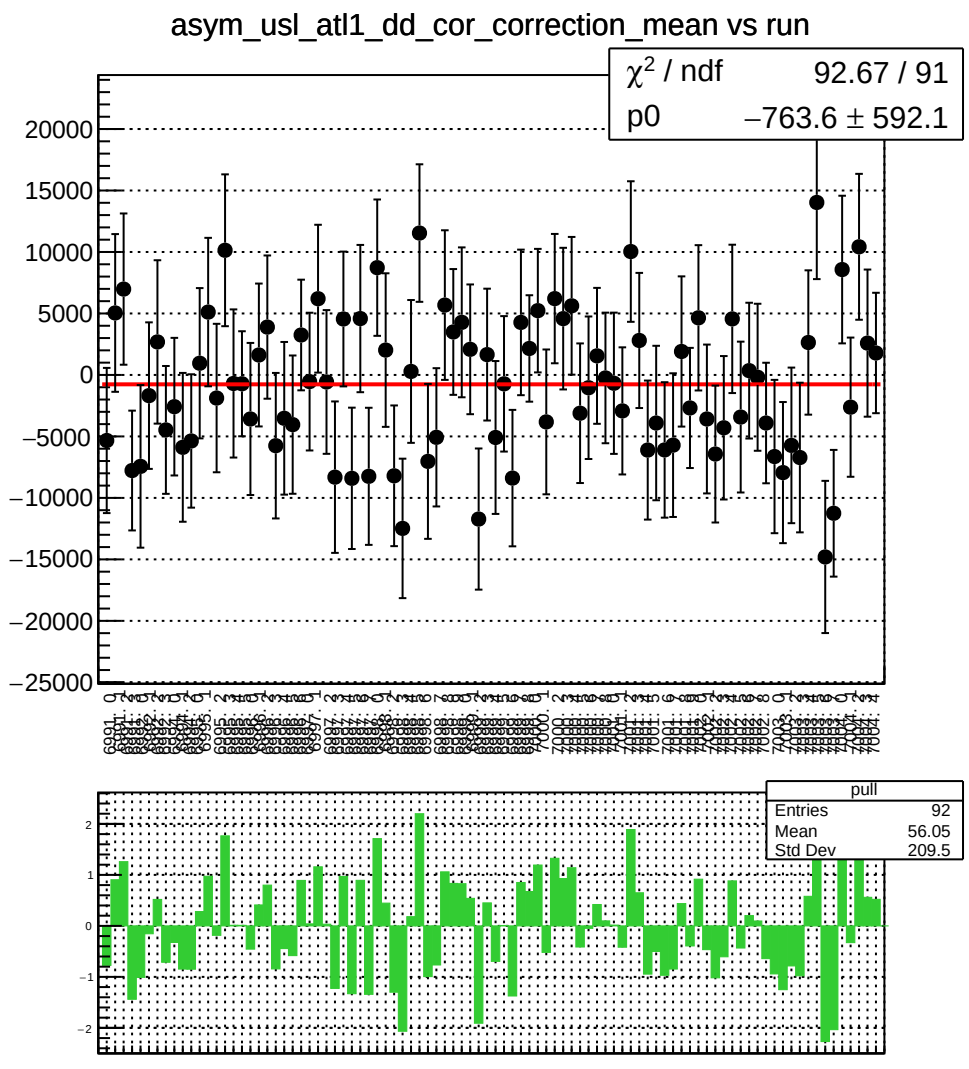

pull1D
Entries 92
Mean −0.0006918
Std Dev 1.004

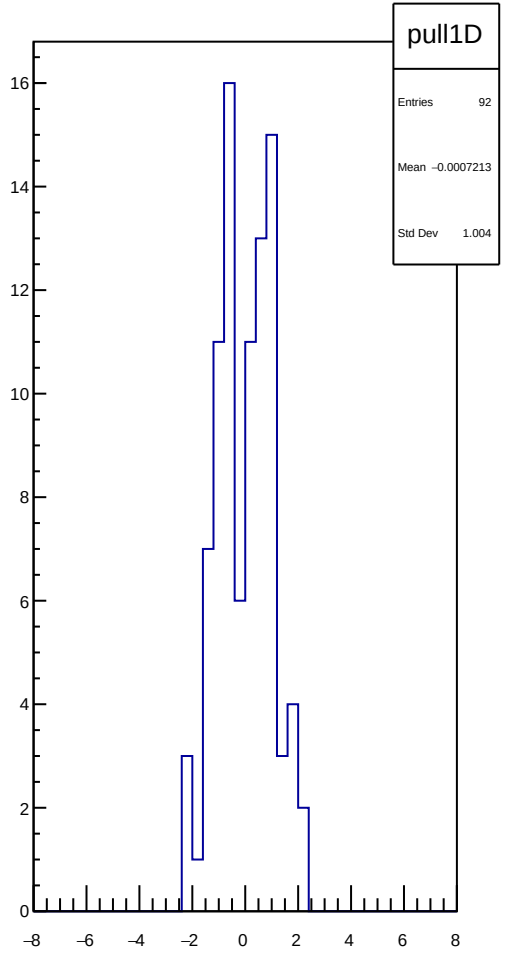

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 4989 / 91
p0 555.5 ± 0.4187
640
620
600
580
560
540
520
500
480
460

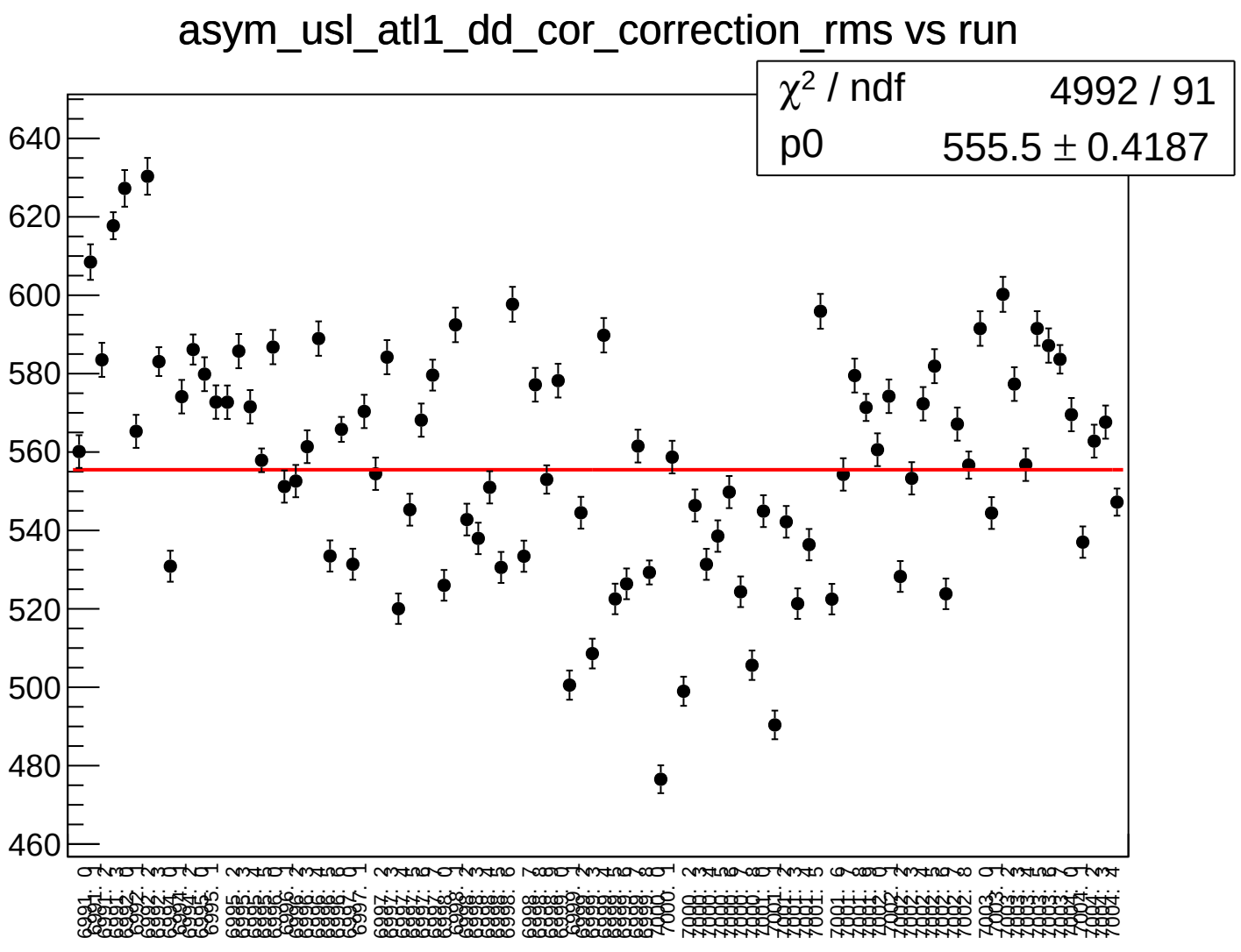

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 93.9 / 91
p0 1832 ± 1240
pull
Entries 92
Mean −126.3
Std Dev 0

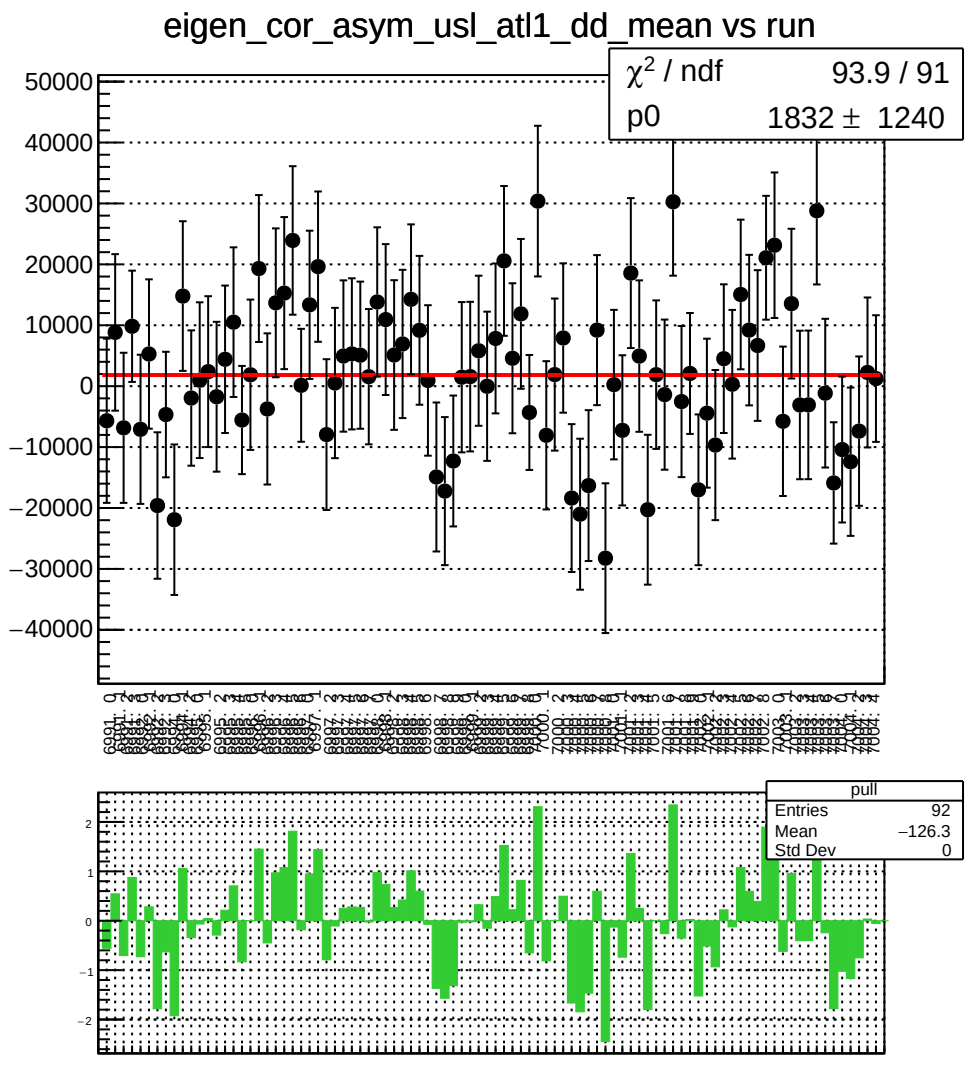

pull1D
Entries 92
Mean 0.006094
Std Dev 1.01

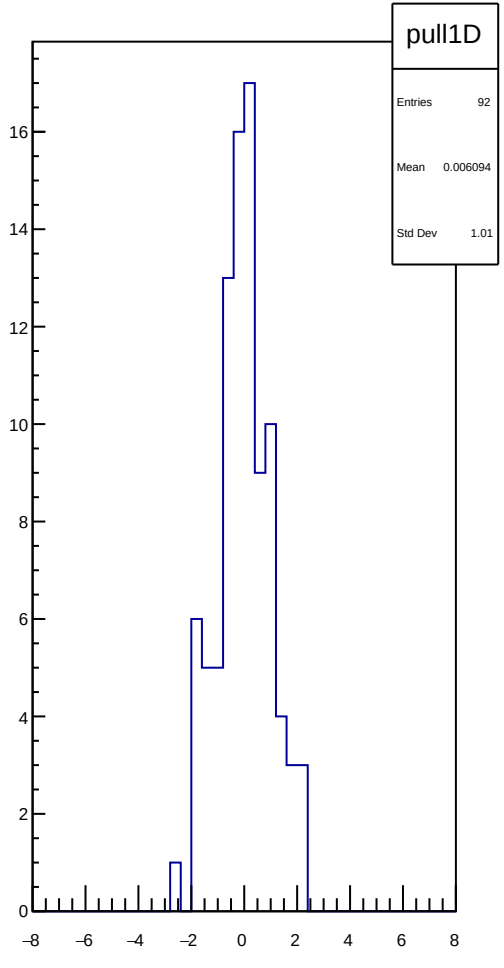

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 373.7 / 91
p0 1165 ± 0.877
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

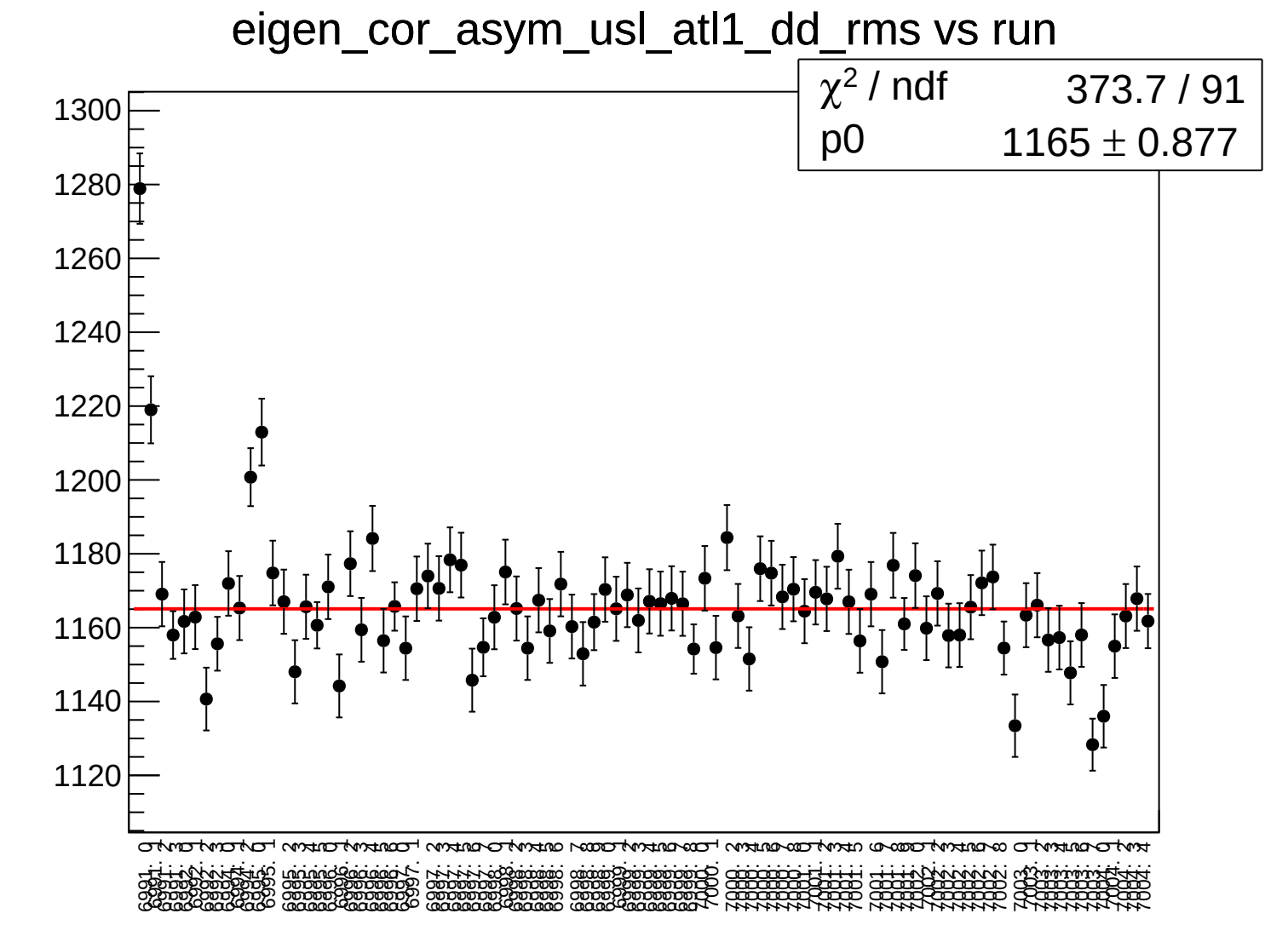

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 92.67 / 91
p0 −763.6 ± 592.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 92
Mean 56.05
Std Dev 209.5
2
1
0
−1
−2

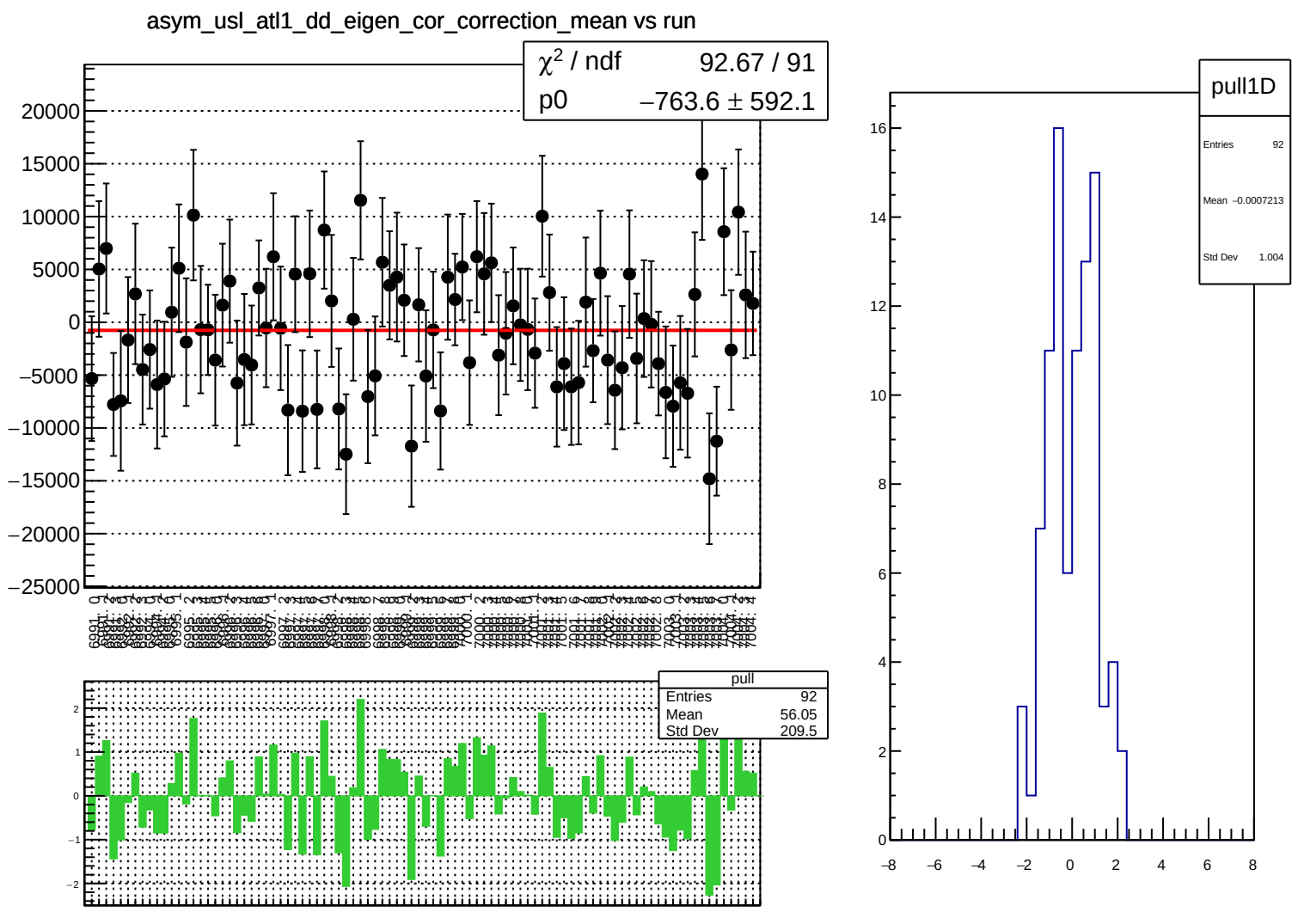

pull1D
Entries 92
Mean −0.0007213
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

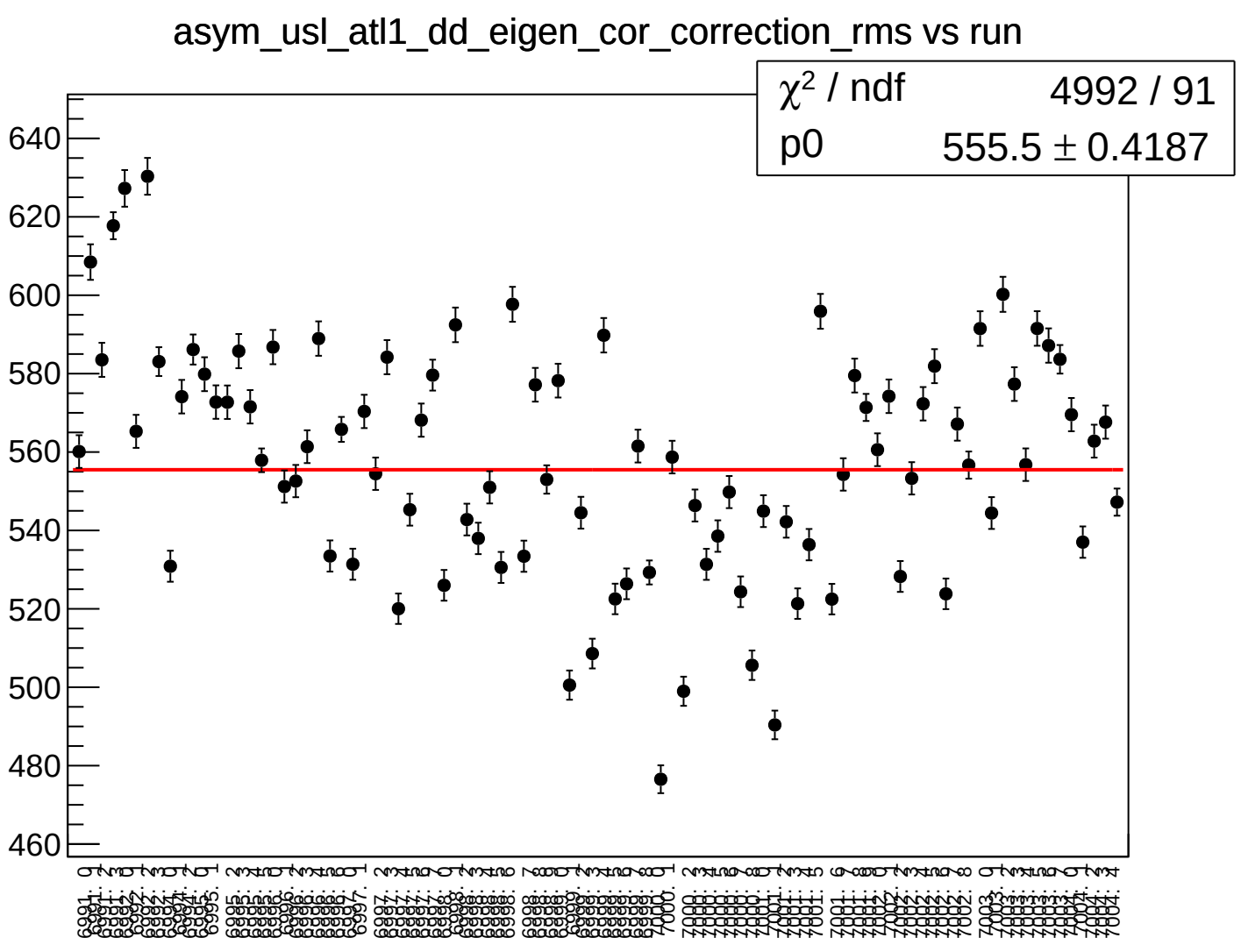

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 4992 / 91
p0 555.5 ± 0.4187
640
620
600
580
560
540
520
500
480
460

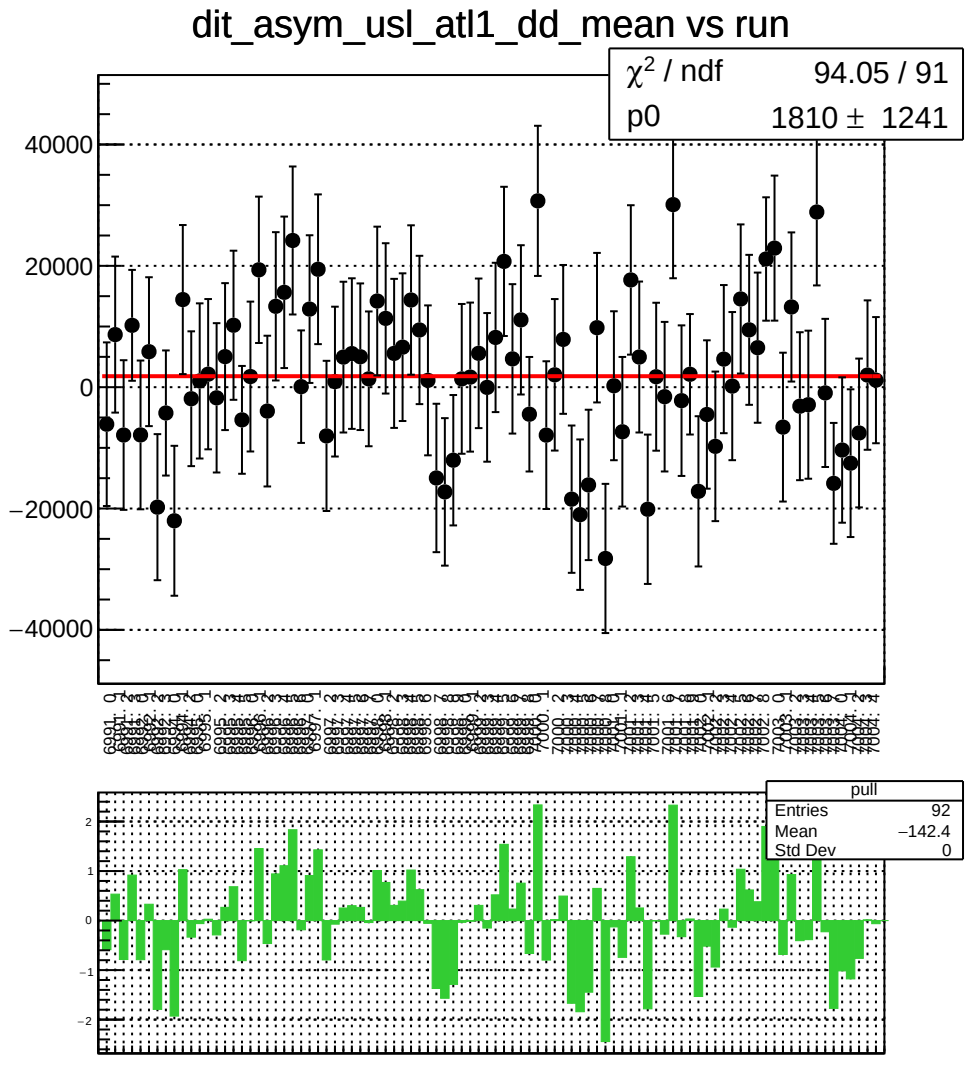

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 93.9 / 91
p0 1832 ± 1240
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −126.3
Std Dev 0
2
1
0
−1
−2

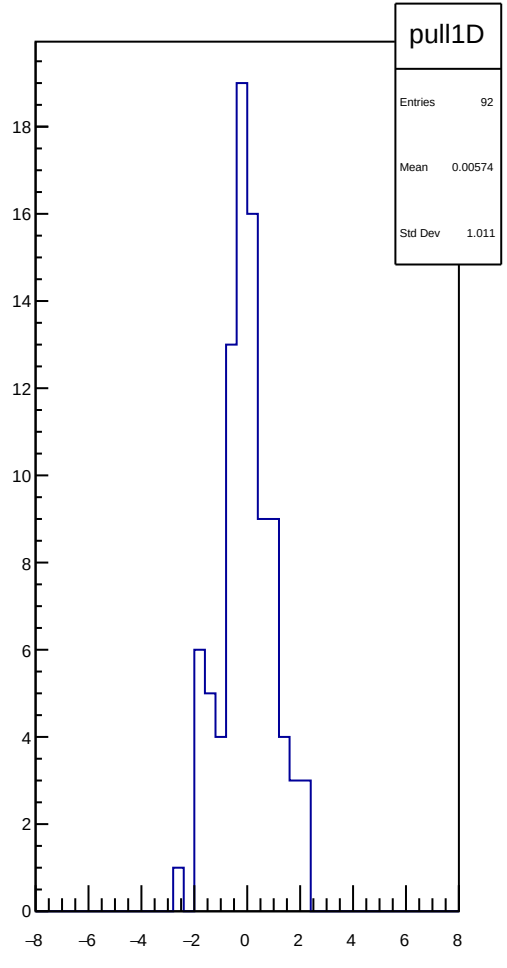

pull1D
Entries 92
Mean 0.006094
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

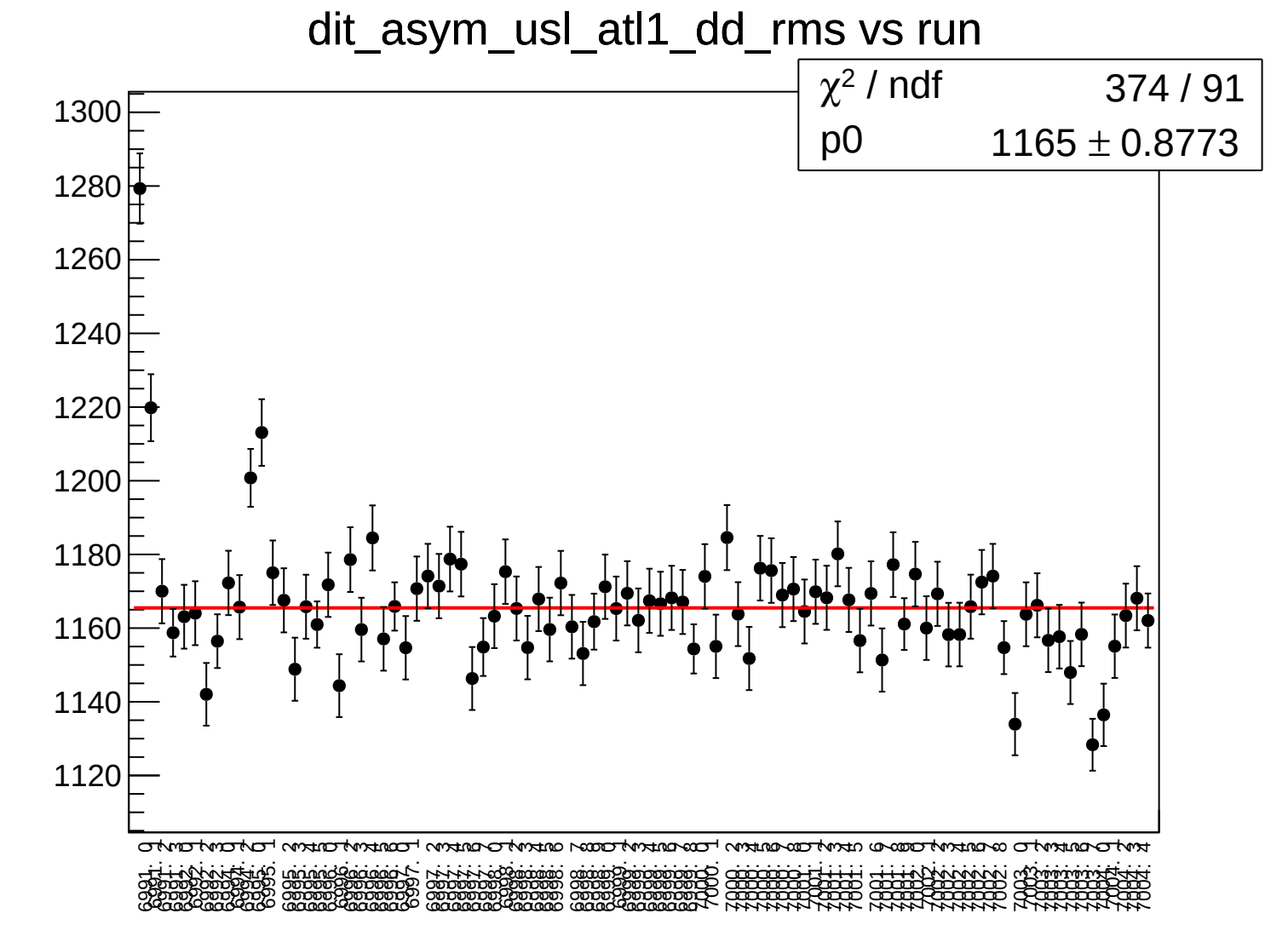

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 373.7 / 91
p0 1165 ± 0.877
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

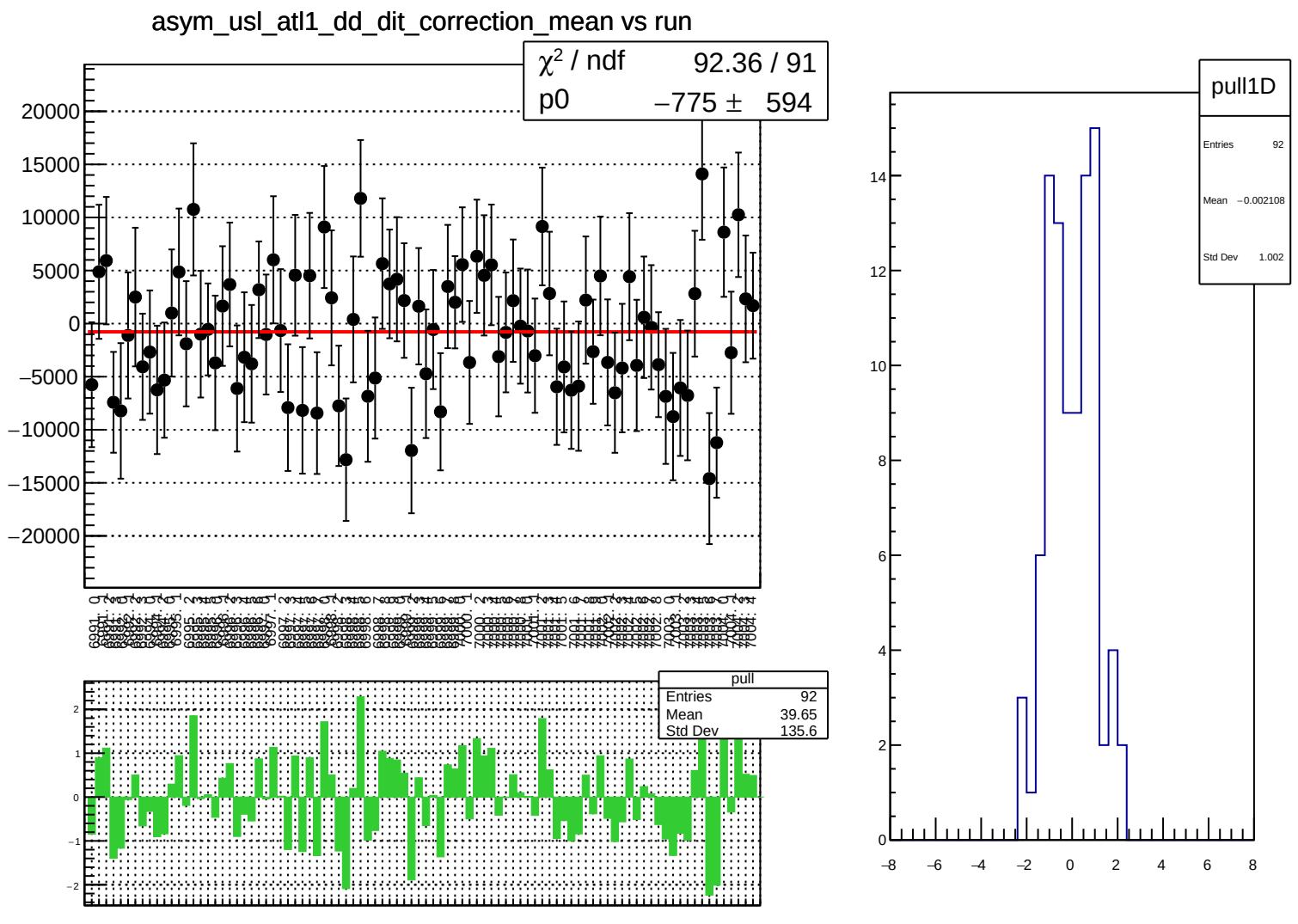

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.67 / 91
p0 −763.6 ± 592.1
pull
Entries 92
Mean 56.05
Std Dev 209.5
pull1D
Entries 92
Mean −0.0007213
Std Dev 1.004

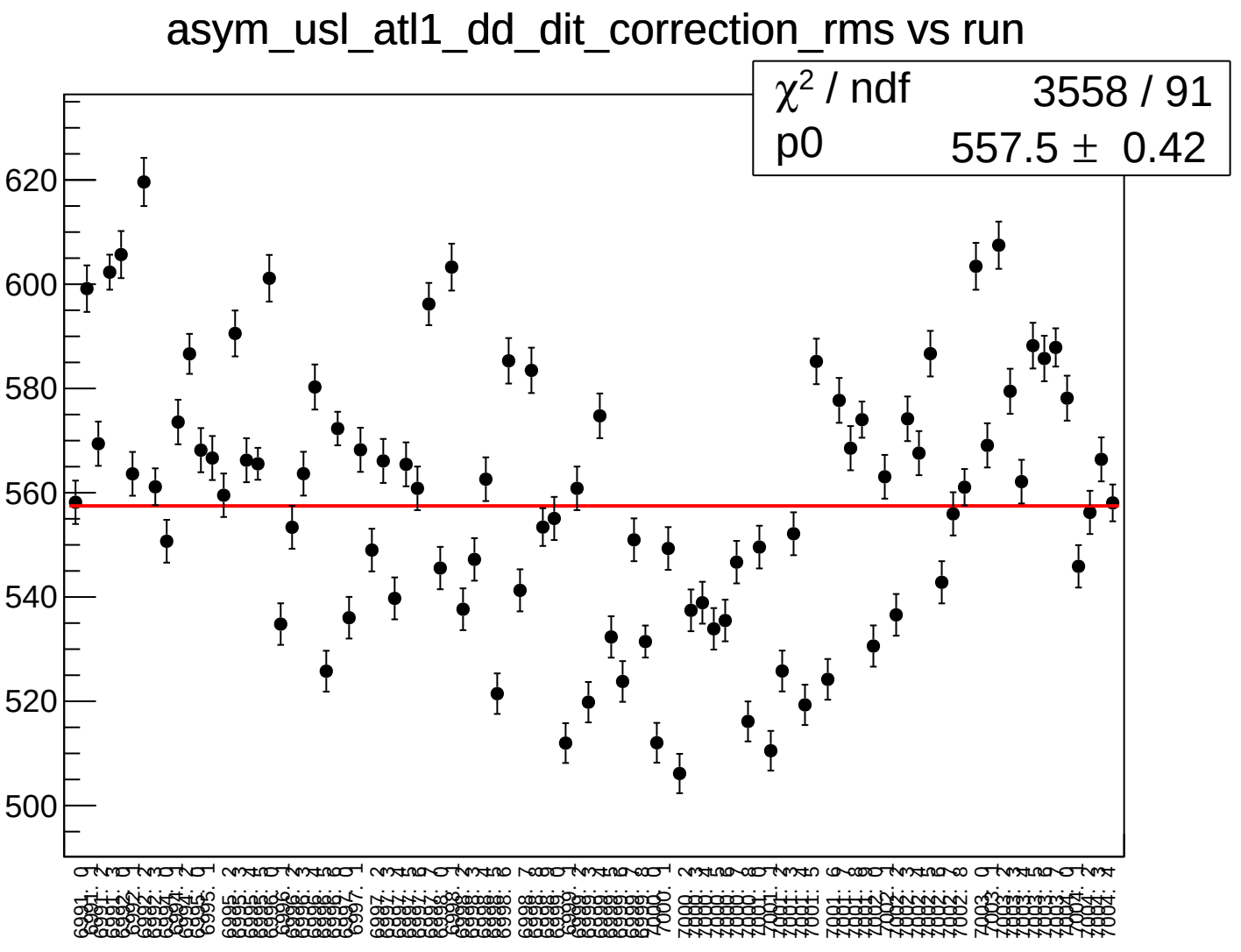

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4992 / 91
p0 555.5 ± 0.4187
640
620
600
580
560
540
520
500
480
460

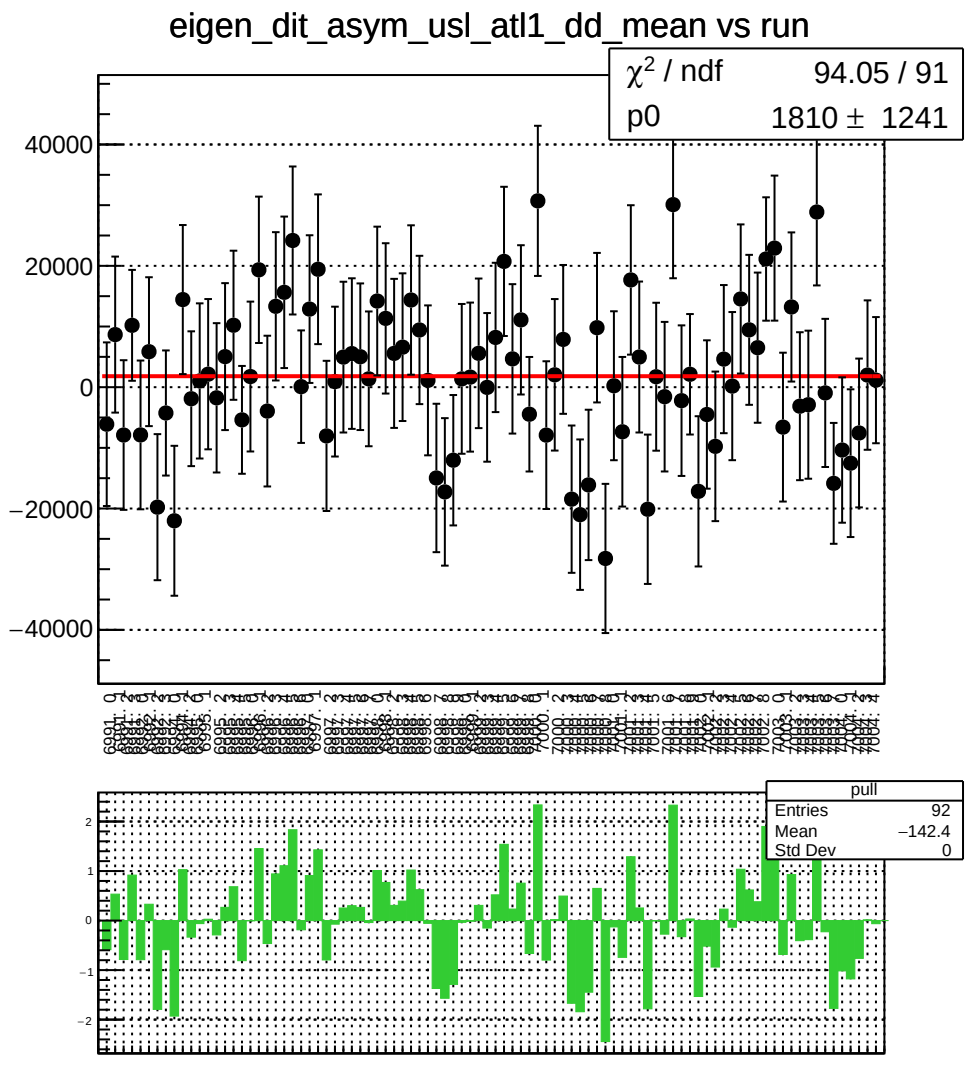

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 94.05 / 91
p0 1810 ± 1241
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −142.4
Std Dev 0
2
1
0
−1
−2

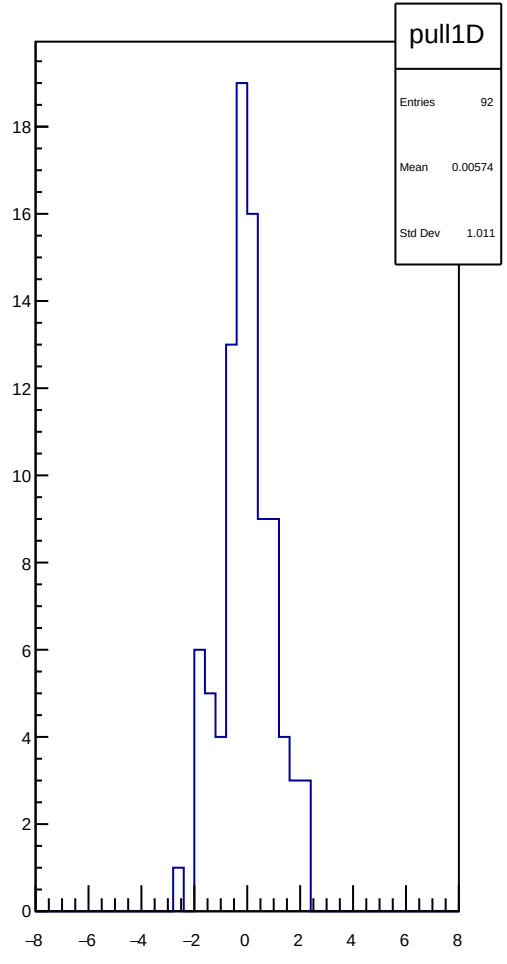

pull1D
Entries 92
Mean 0.00574
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

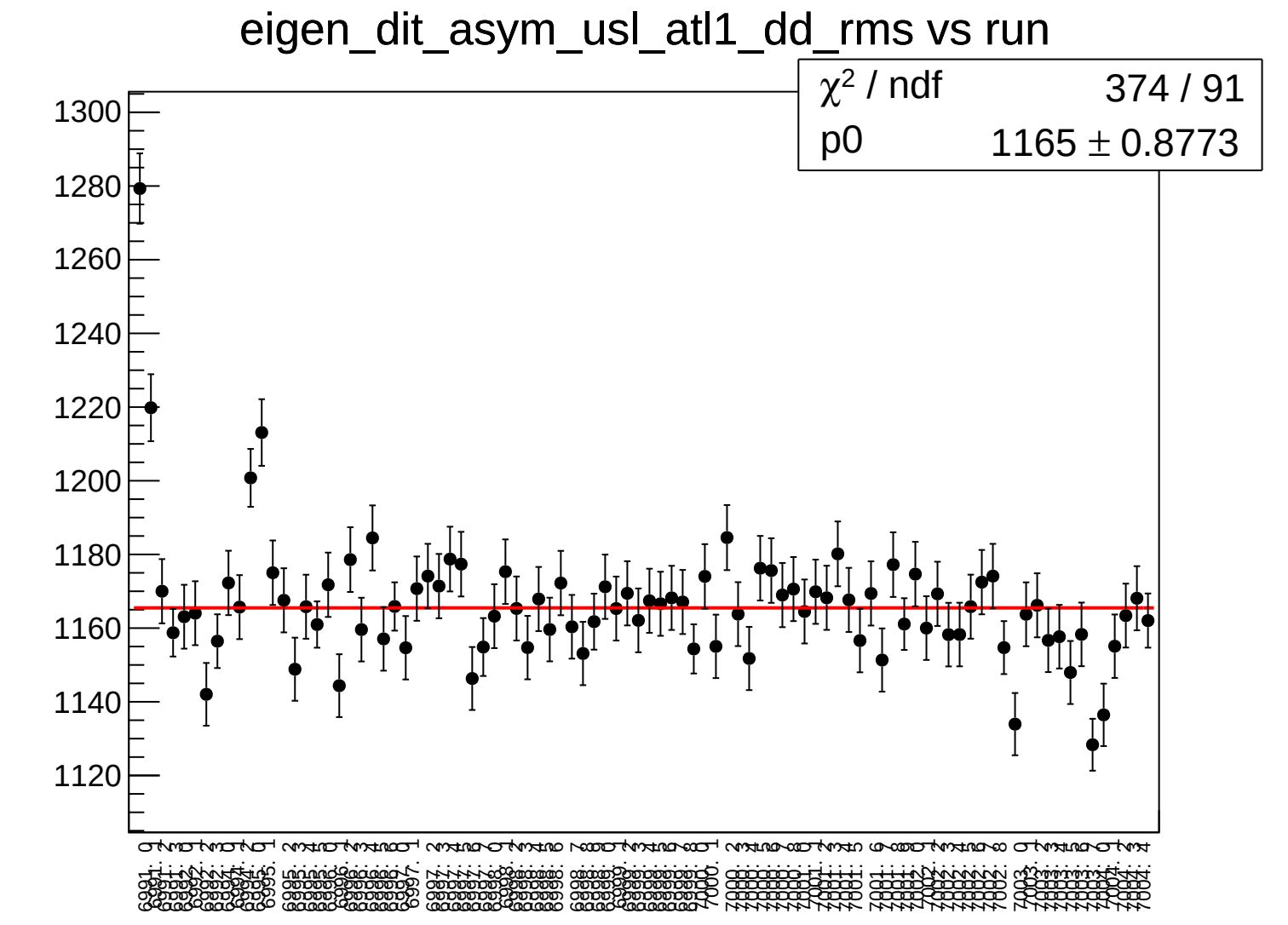

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 374 / 91
p0 1165 ± 0.8773
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

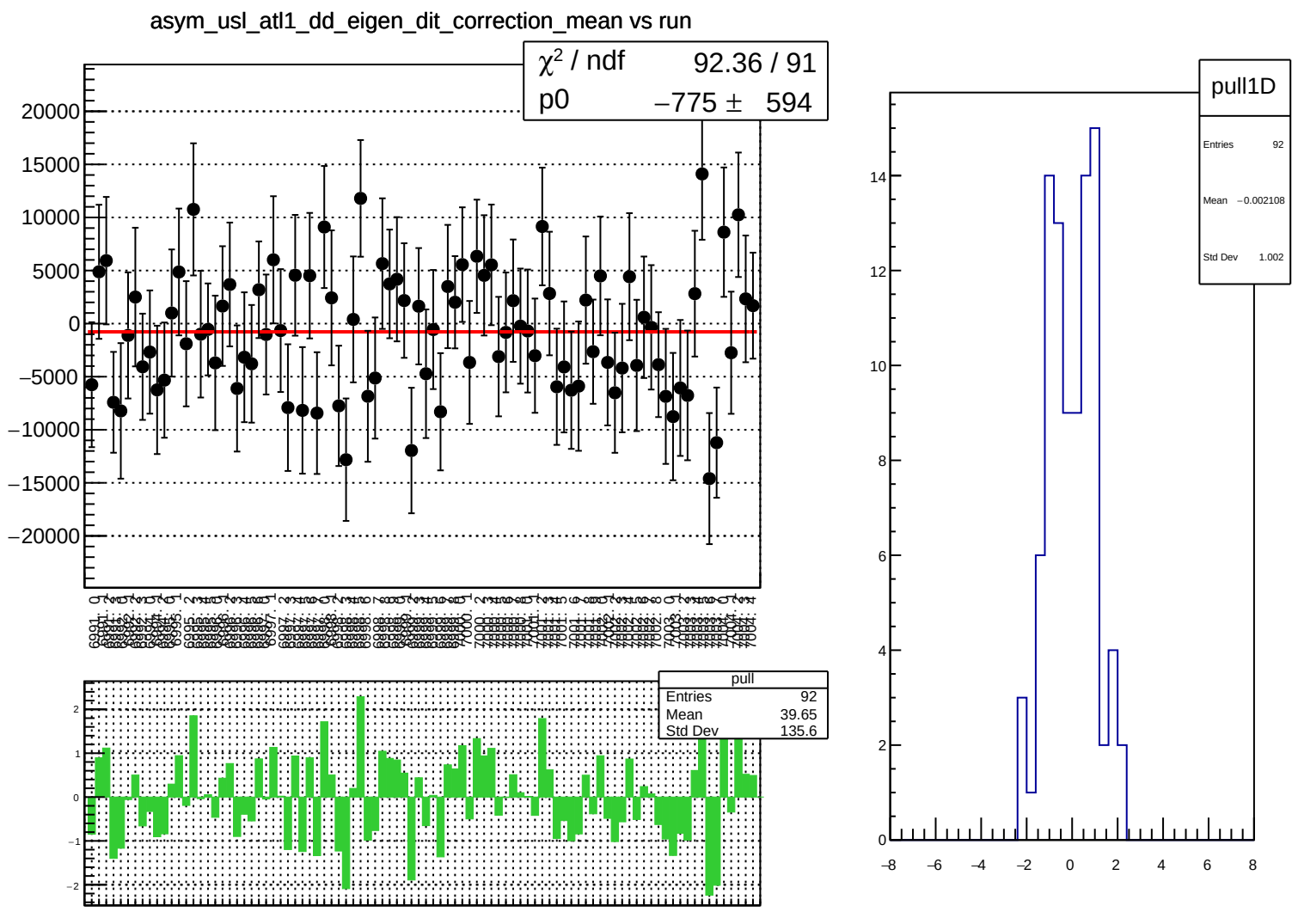

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 92.36 / 91
p0 −775 ± 594
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 39.65
Std Dev 135.6
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002108
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

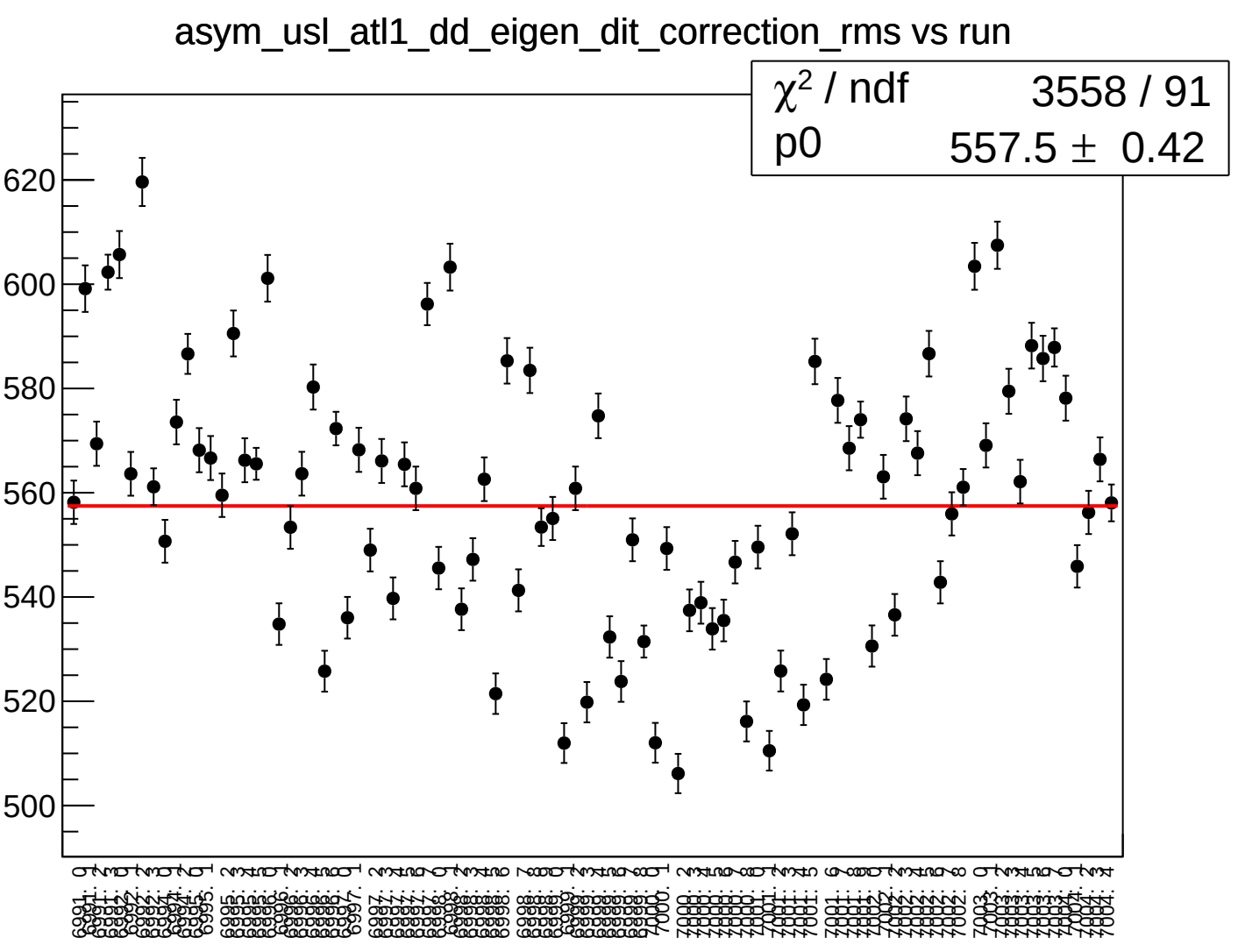

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 3558 / 91
p0 557.5 ± 0.42
620
600
580
560
540
520
500

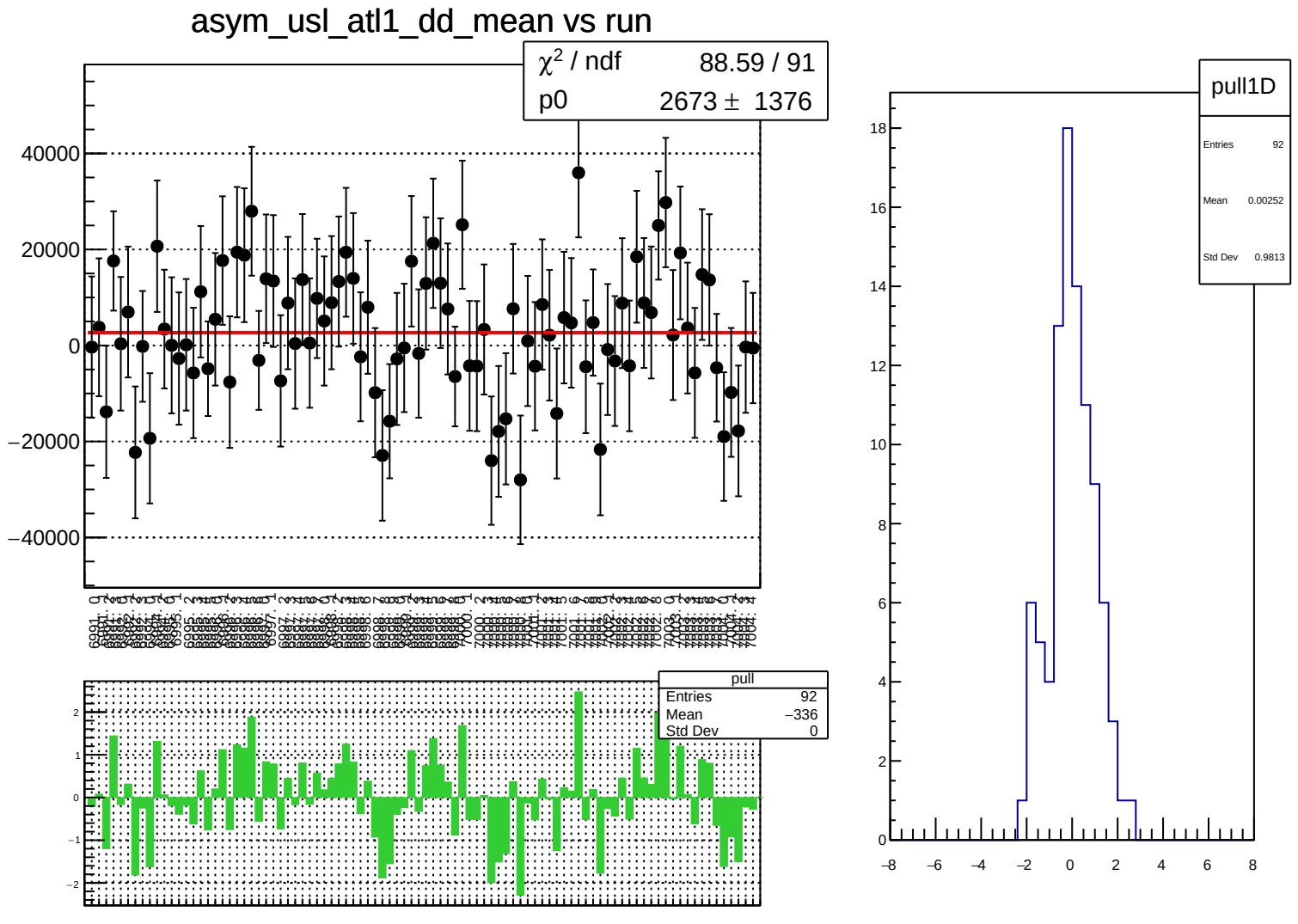

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 94.05 / 91
p0 1810 ± 1241
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −142.4
Std Dev 0
2
1
0
−1
−2

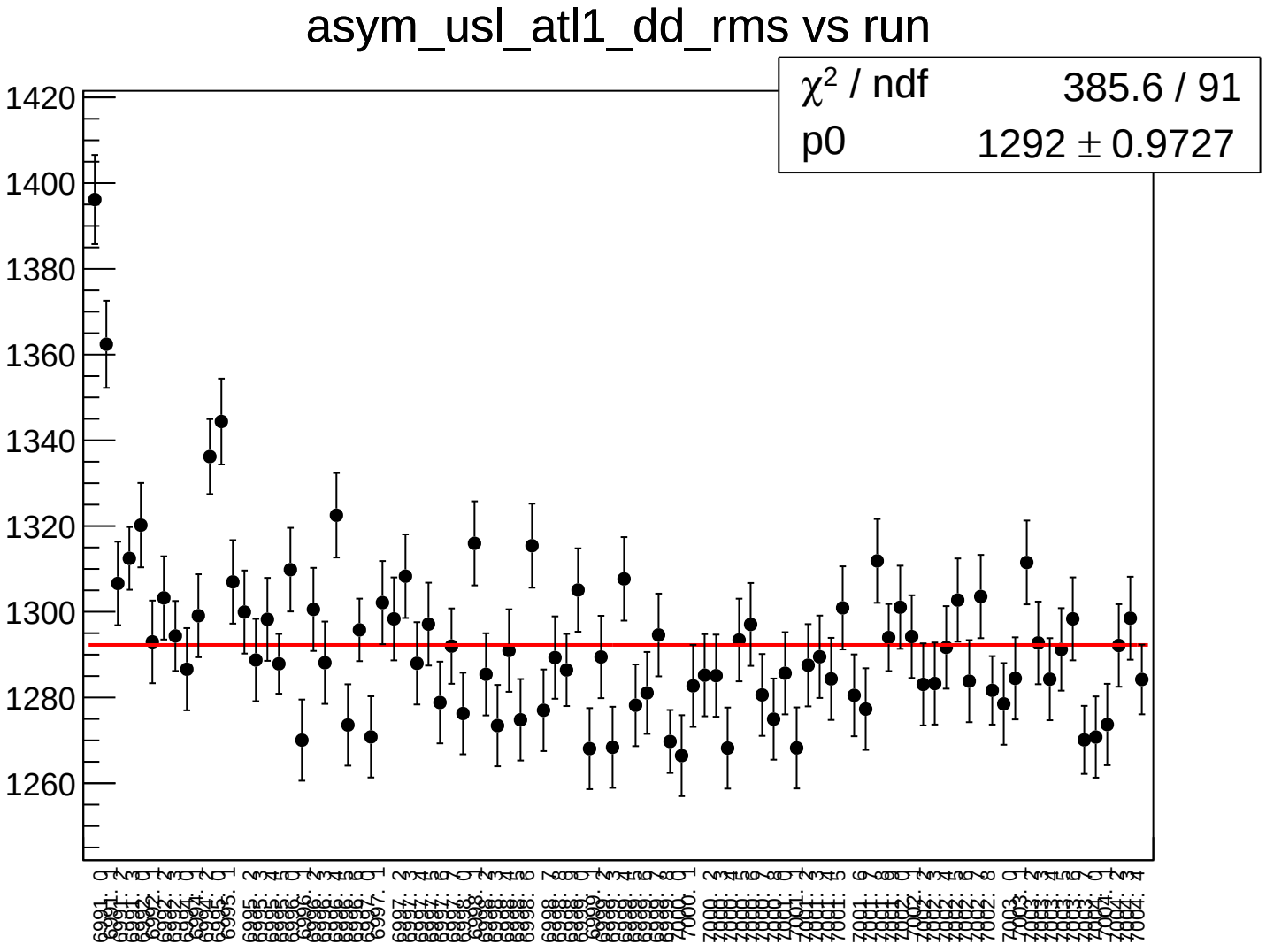

pull1D
Entries 92
Mean 0.00574
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

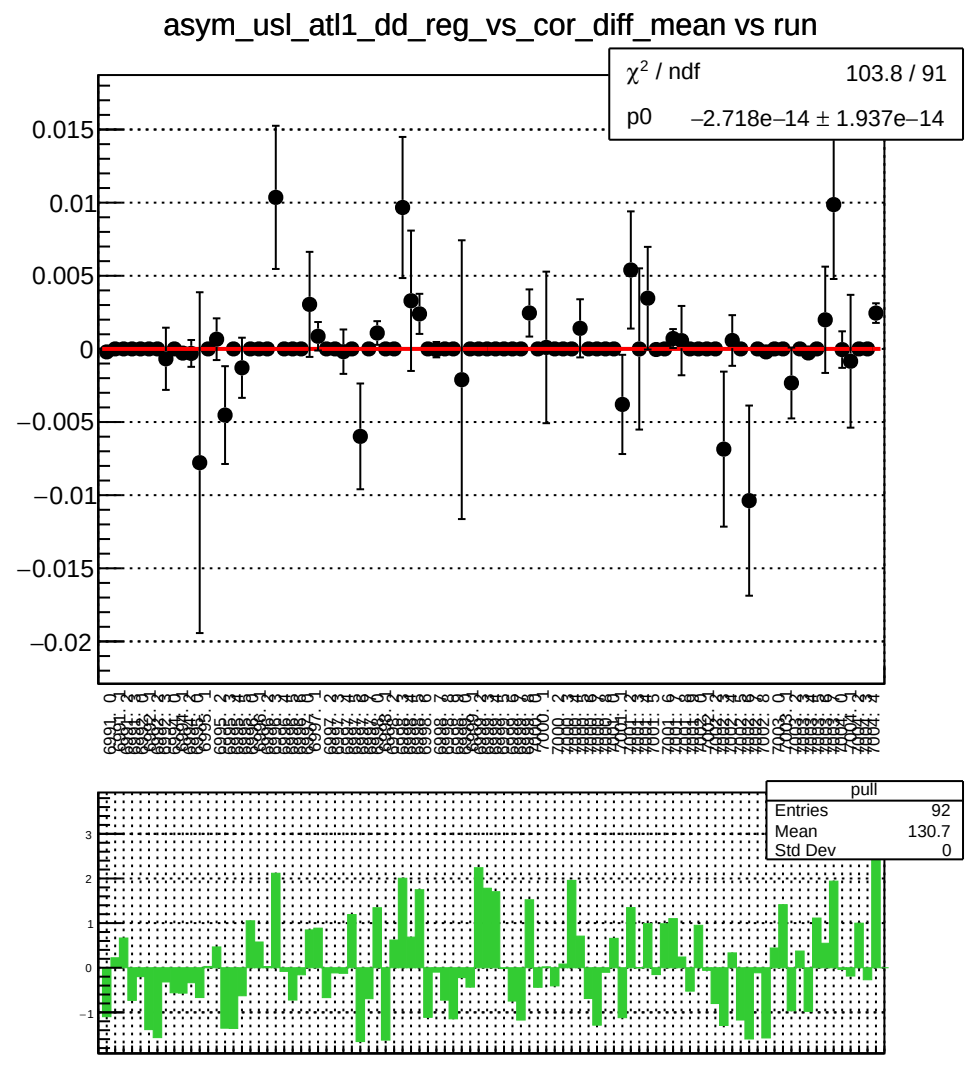

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 374 / 91
p0 1165 ± 0.8773
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

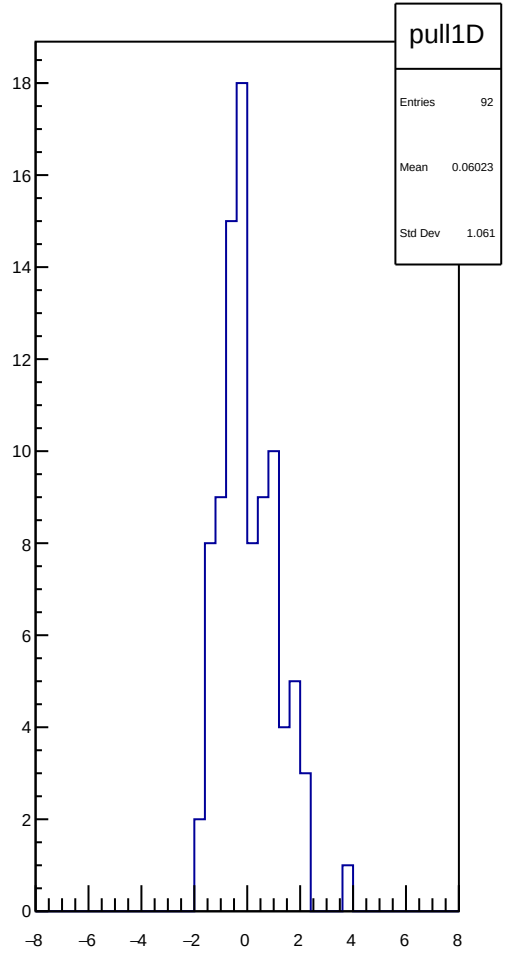

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.36 / 91
p0 −775 ± 594
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 39.65
Std Dev 135.6
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002108
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

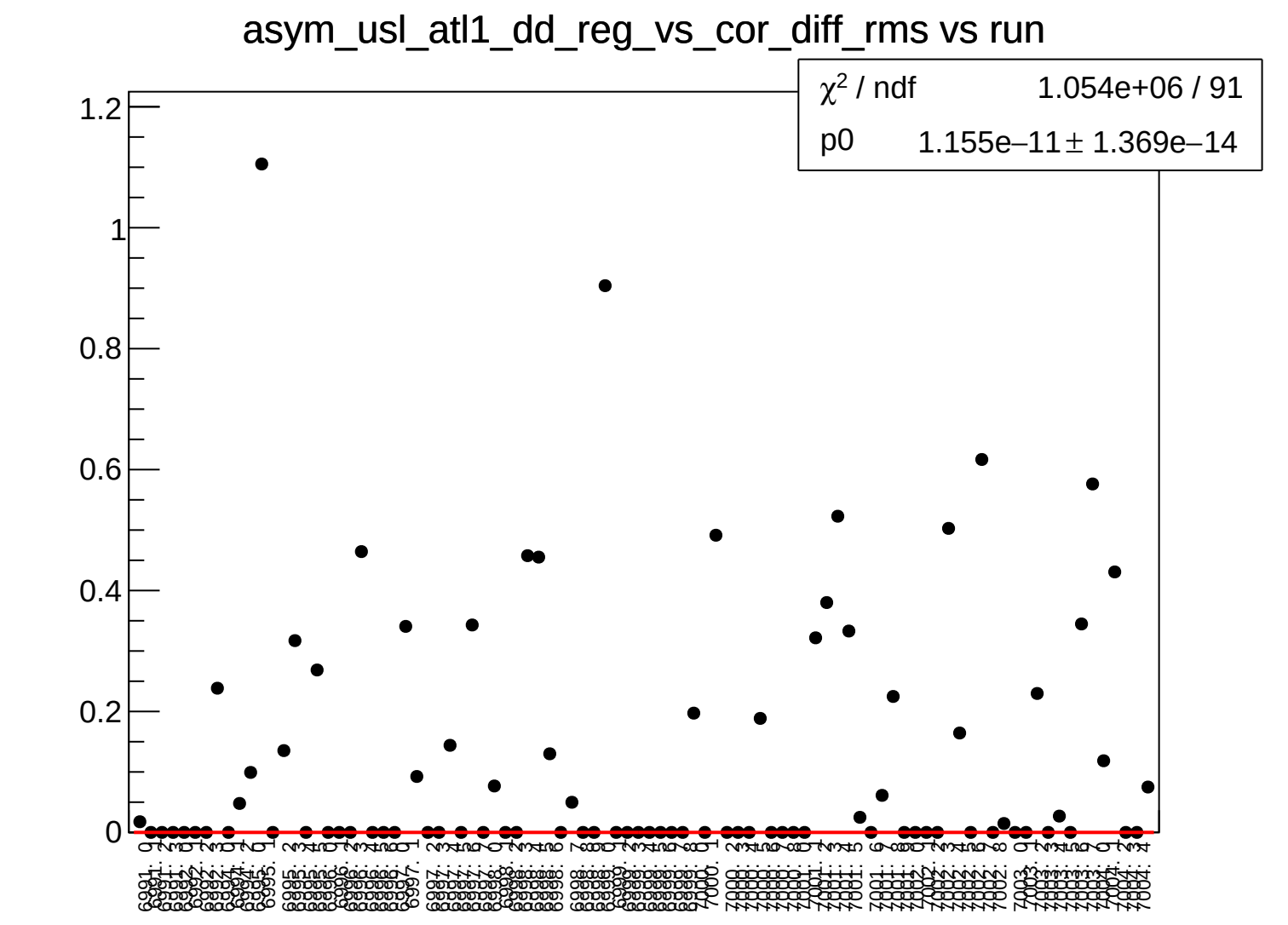

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3558 / 91
p0 557.5 ± 0.42
620
600
580
560
540
520
500

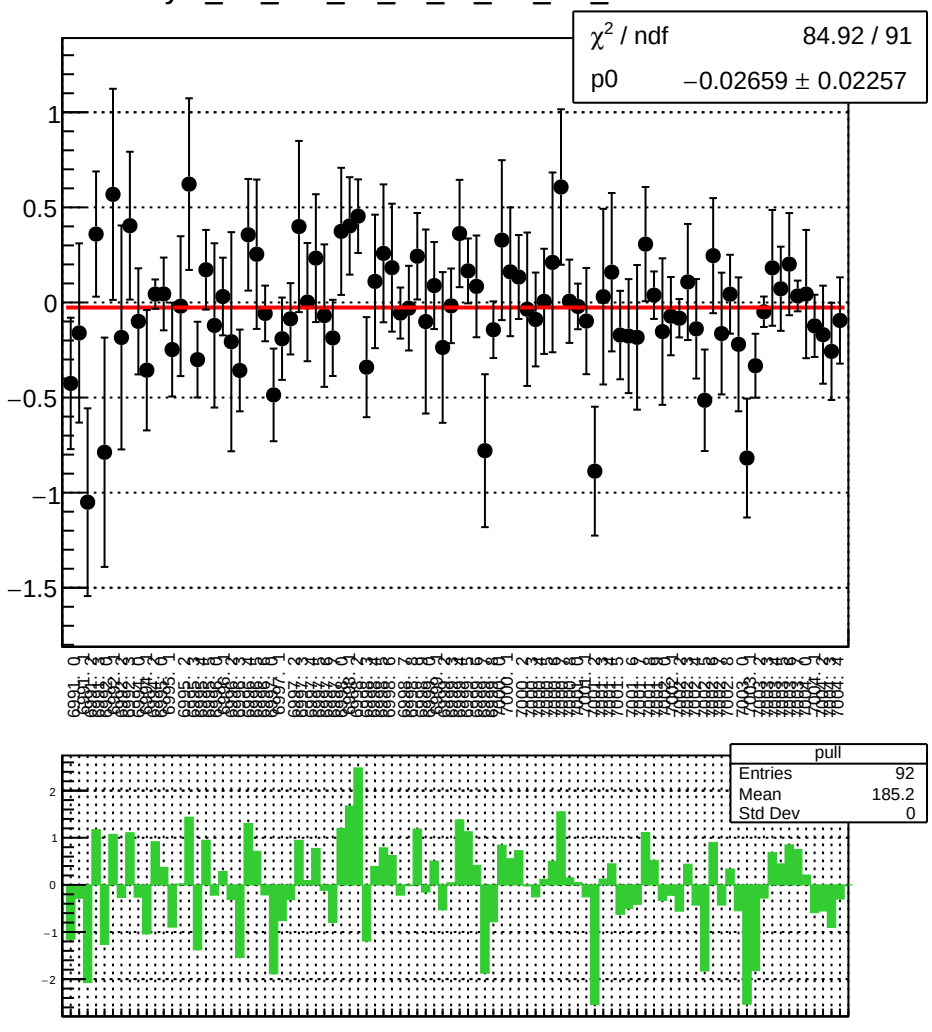

asym_usl_atl1_dd_mean vs run
χ² / ndf 88.59 / 91
p0 2673 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −336
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00252
Std Dev 0.9813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

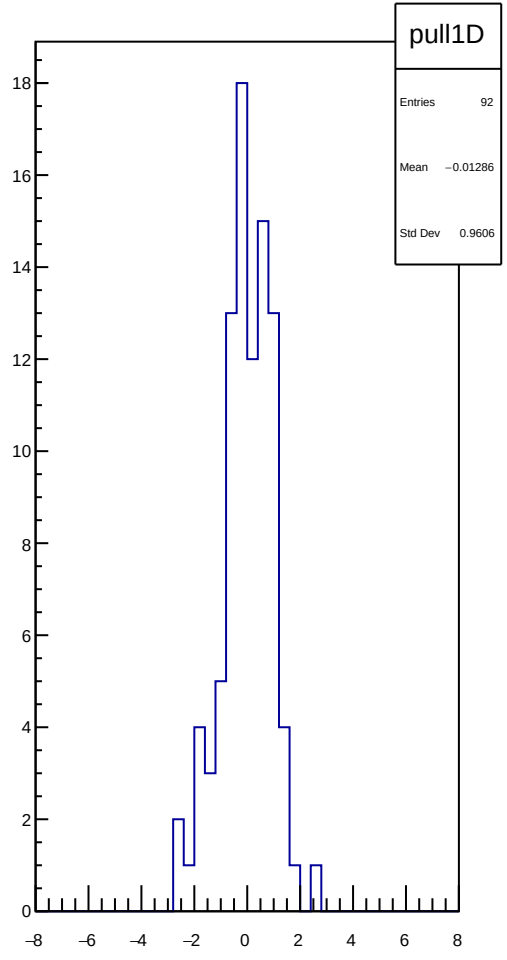

asym_usl_atl1_dd_rms vs run
χ² / ndf 385.6 / 91
p0 1292 ± 0.9727
1420
1400
1380
1360
1340
1320
1300
1280
1260

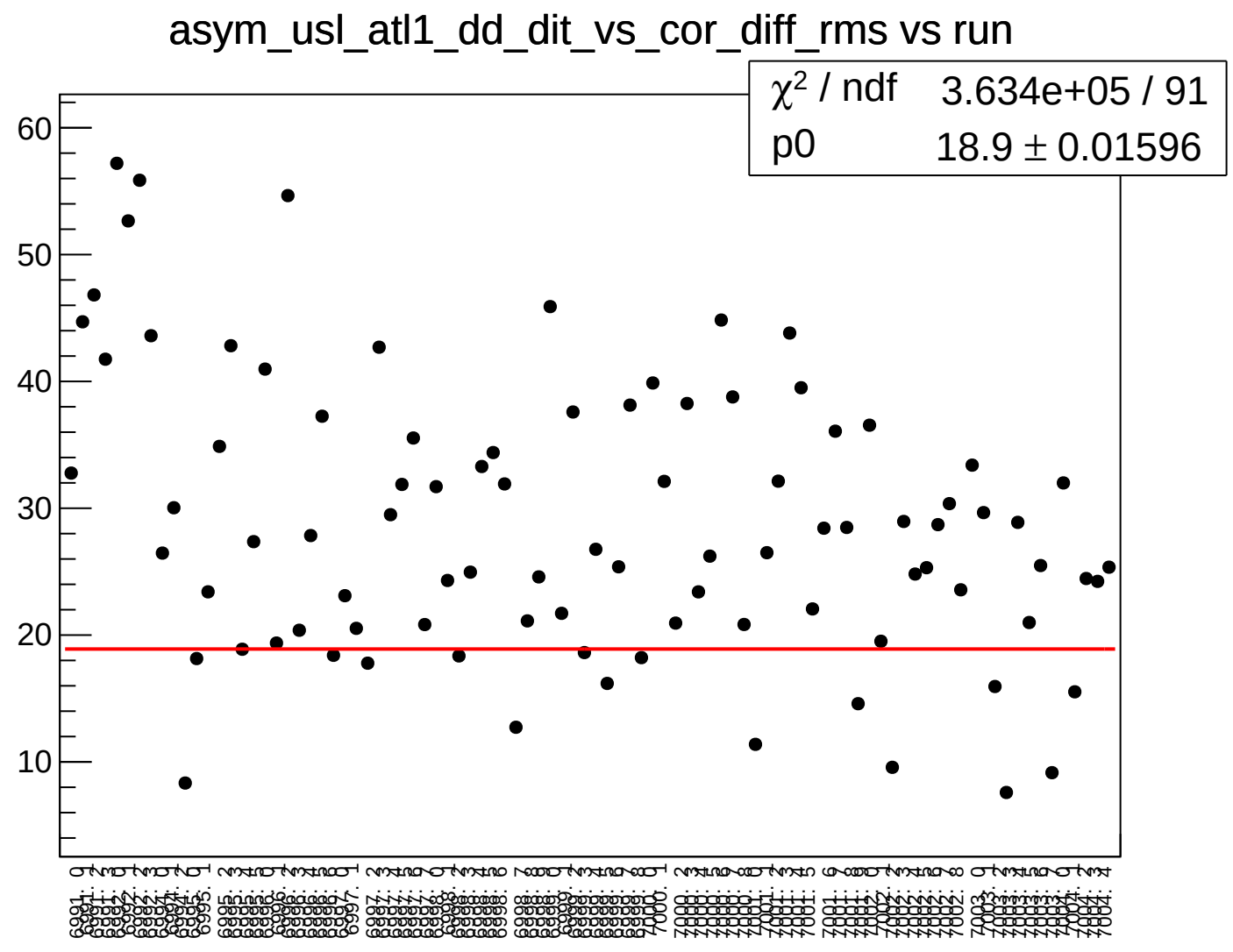

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 91
p0 −2.718e−14 ± 1.937e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 130.7
Std Dev 0
3
2
1
0
−1

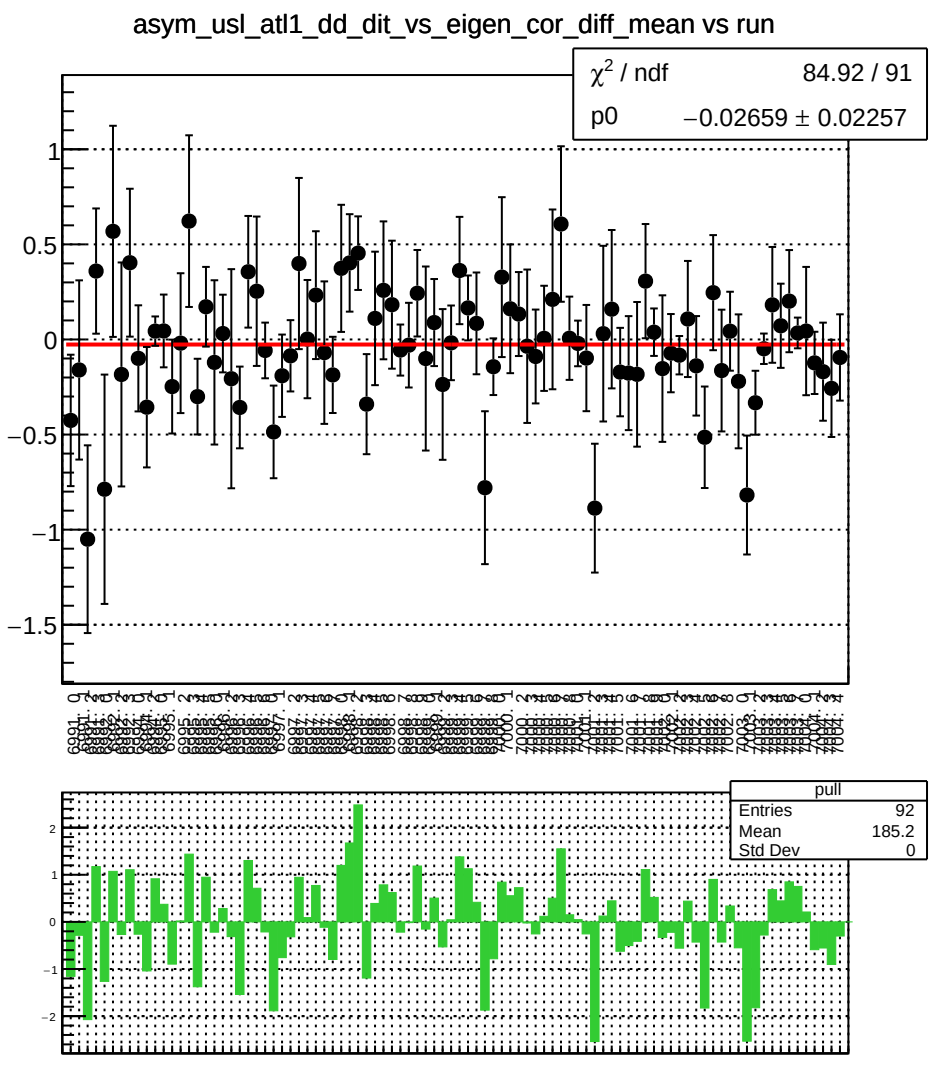

pull1D
Entries 92
Mean 0.06023
Std Dev 1.061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

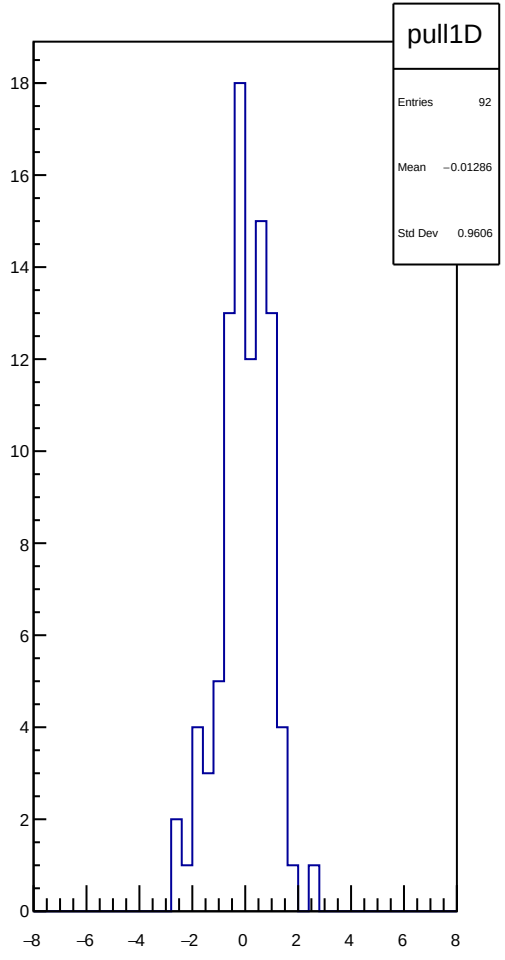

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.054e+06 / 91
p0 1.155e−11 ± 1.369e−14
1.2
1
0.8
0.6
0.4
0.2
0

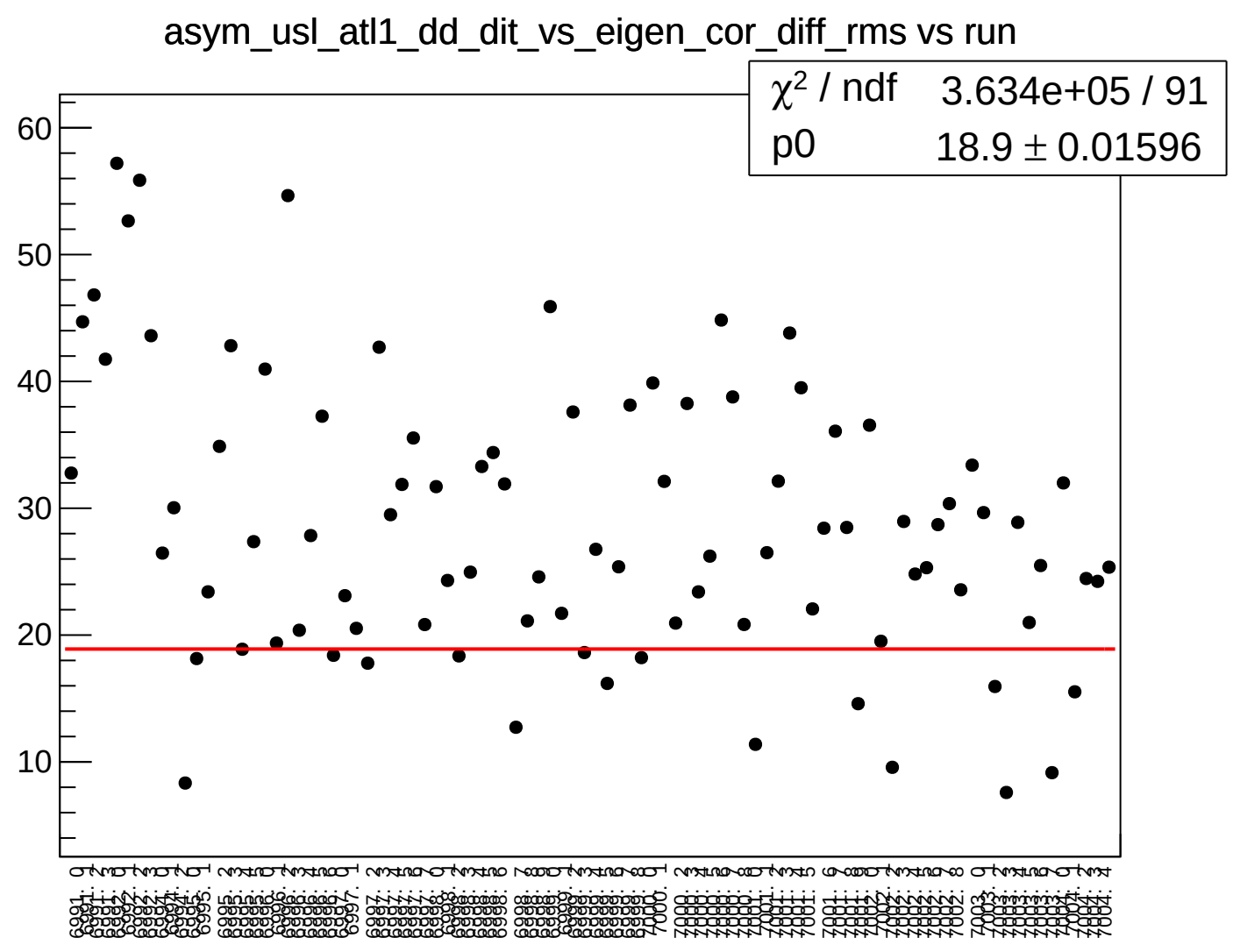

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.92 / 91
p0 −0.02659 ± 0.02257
pull
Entries 92
Mean 185.2
Std Dev 0

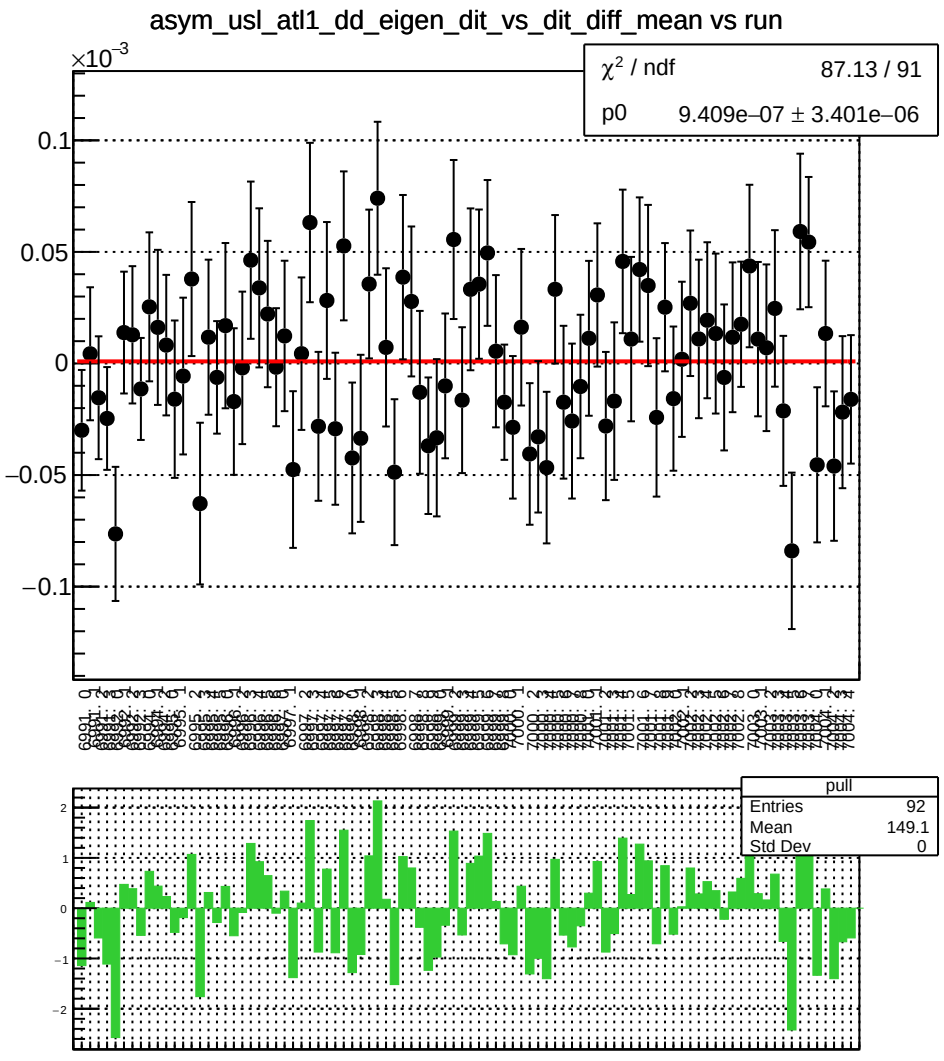

pull1D
Entries 92
Mean −0.01286
Std Dev 0.9606

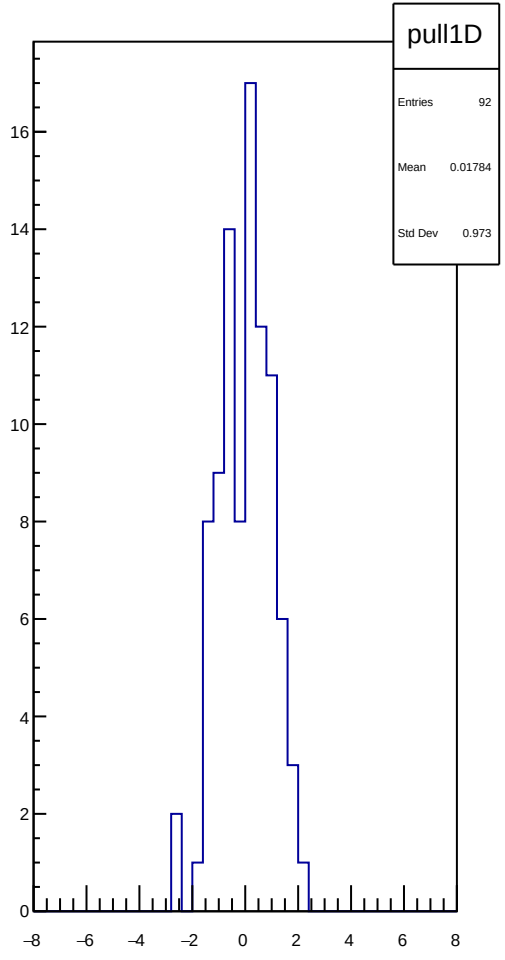

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.634e+05 / 91
p0 18.9 ± 0.01596
60
50
40
30
20
10

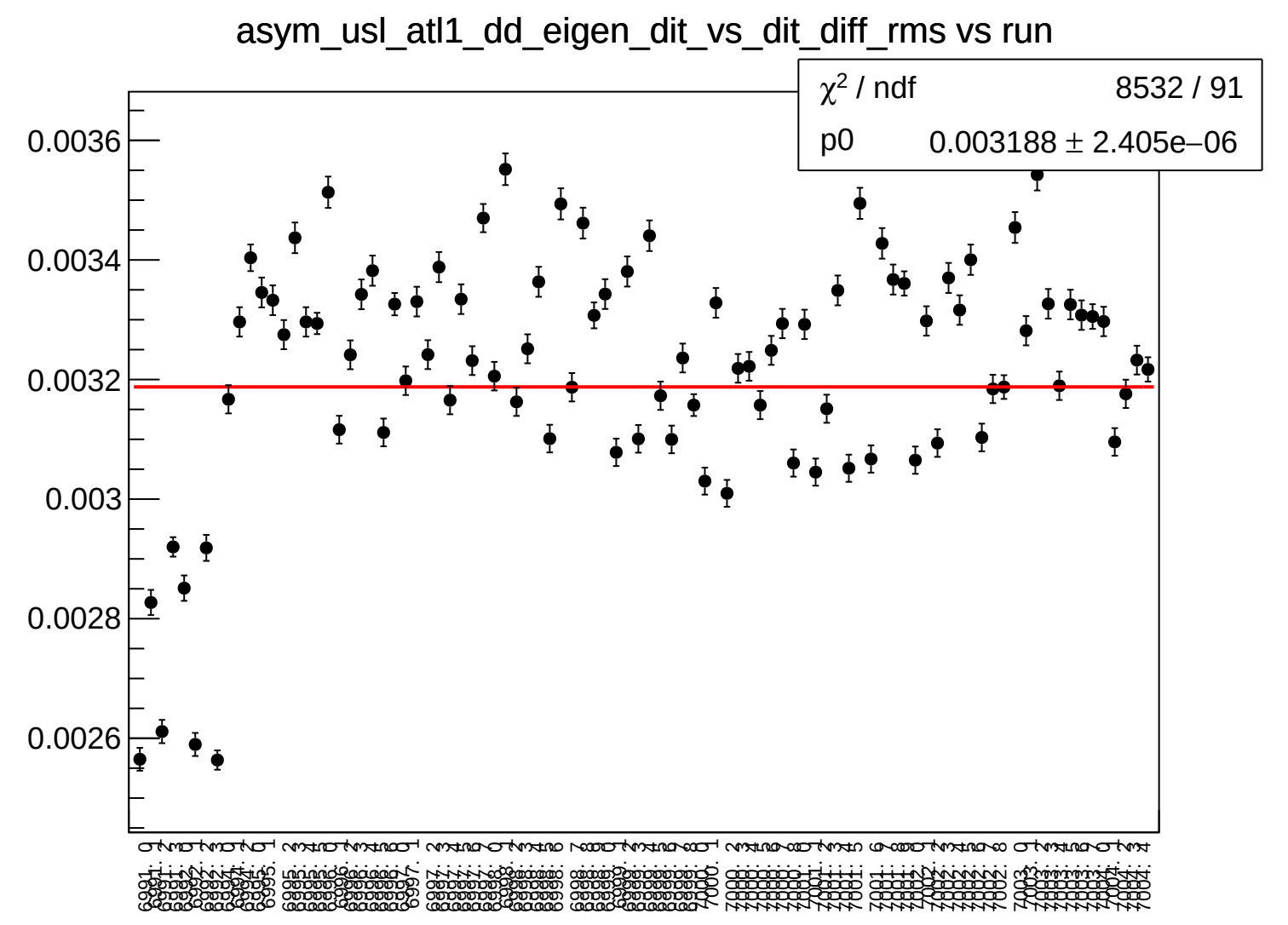

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.92 / 91
p0 −0.02659 ± 0.02257
pull
Entries 92
Mean 185.2
Std Dev 0

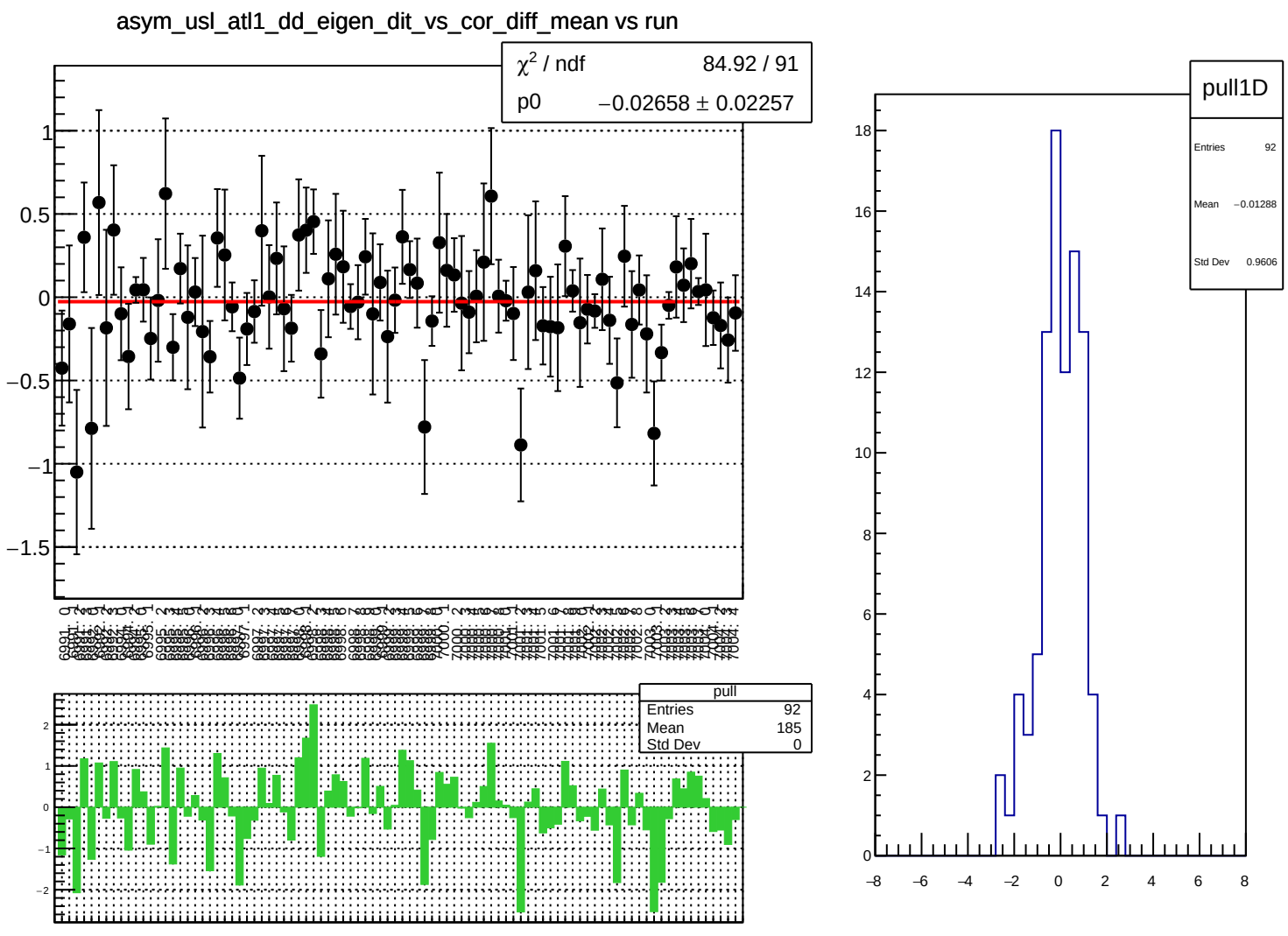

pull1D
Entries 92
Mean −0.01286
Std Dev 0.9606

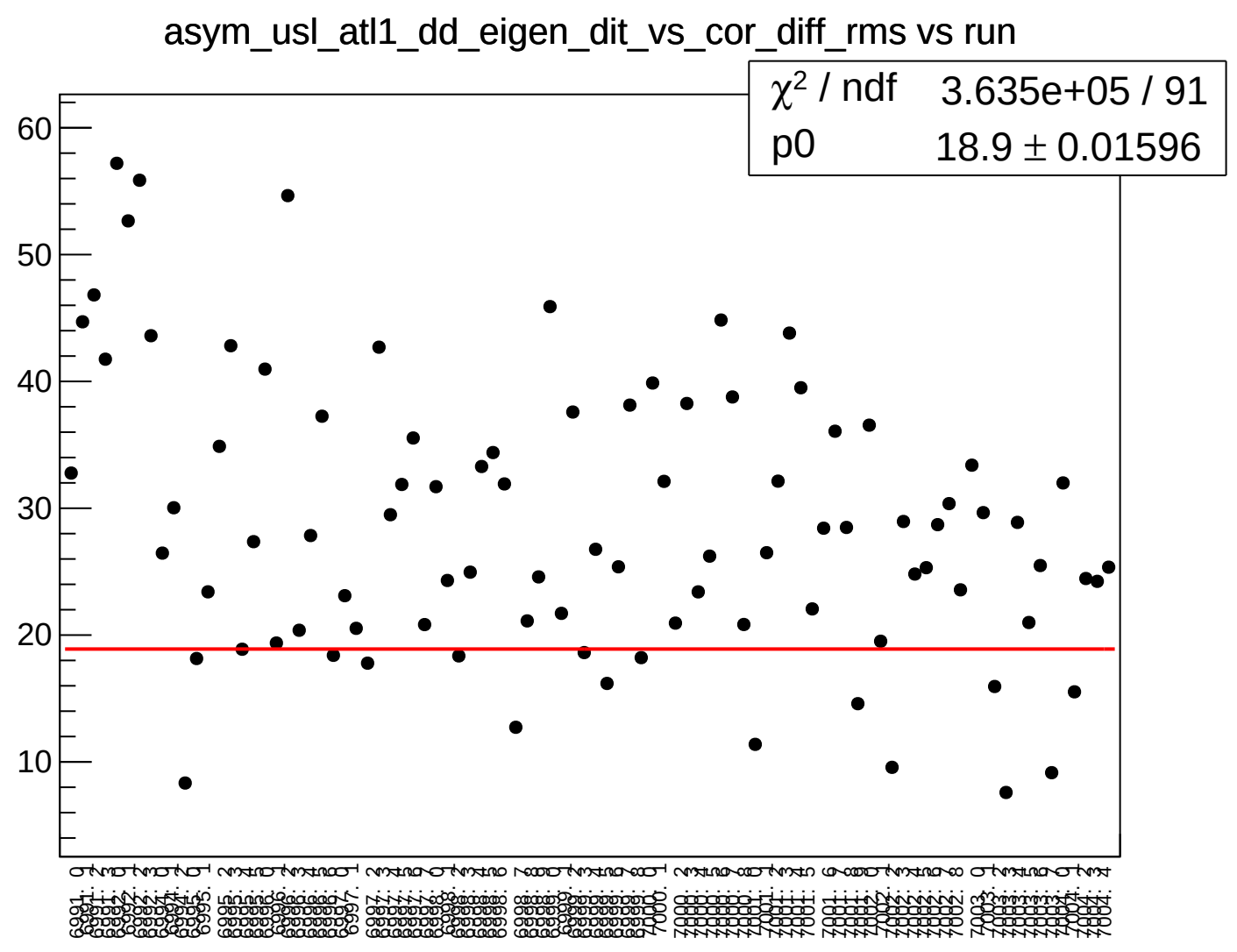

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.634e+05 / 91
p0 18.9 ± 0.01596
60
50
40
30
20
10

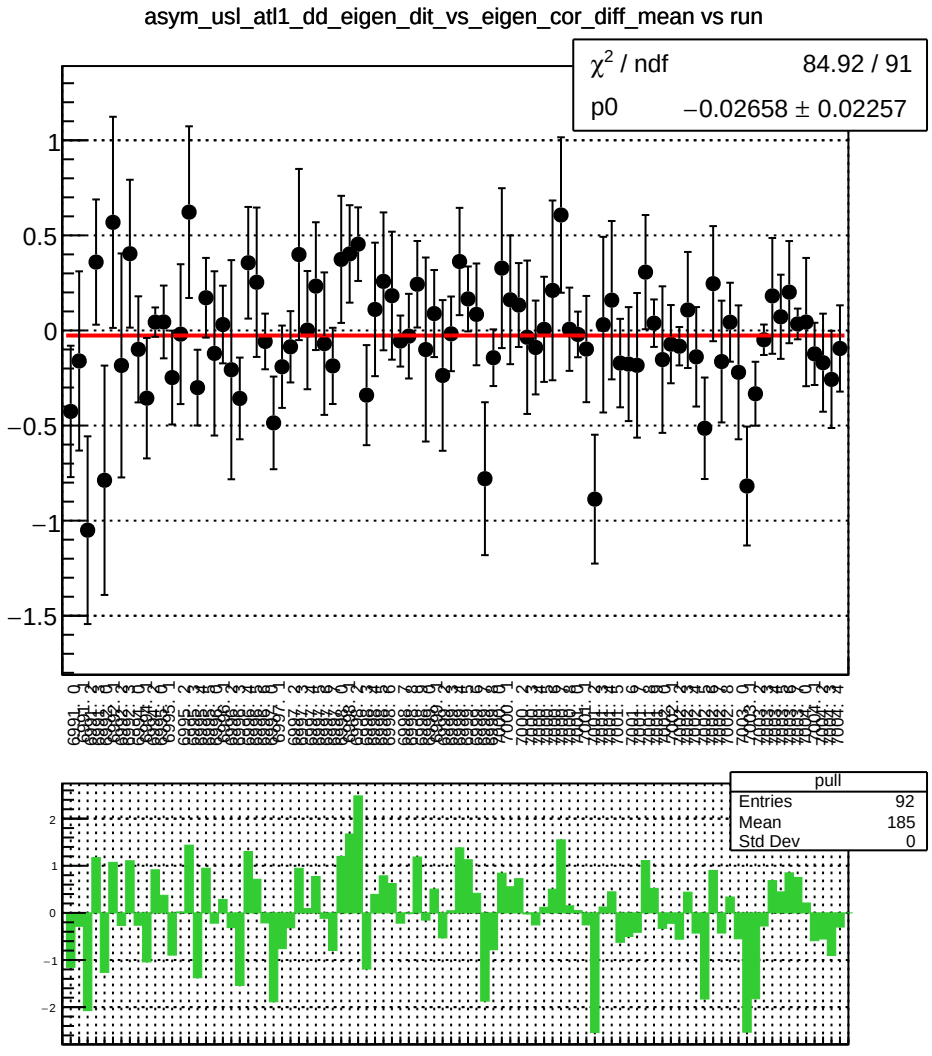

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 87.13 / 91
p0 9.409e−07 ± 3.401e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 149.1
Std Dev 0
2
1
0
−1
−2

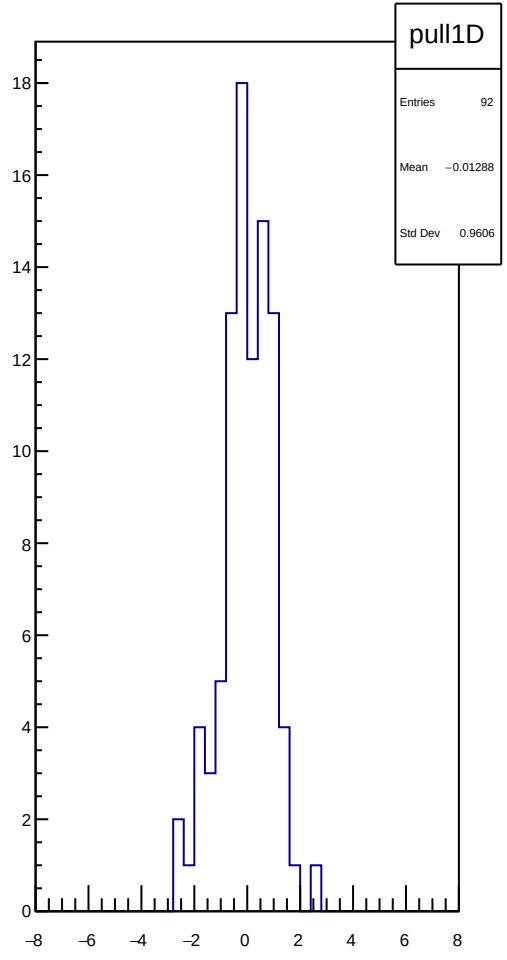

pull1D
Entries 92
Mean 0.01784
Std Dev 0.973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

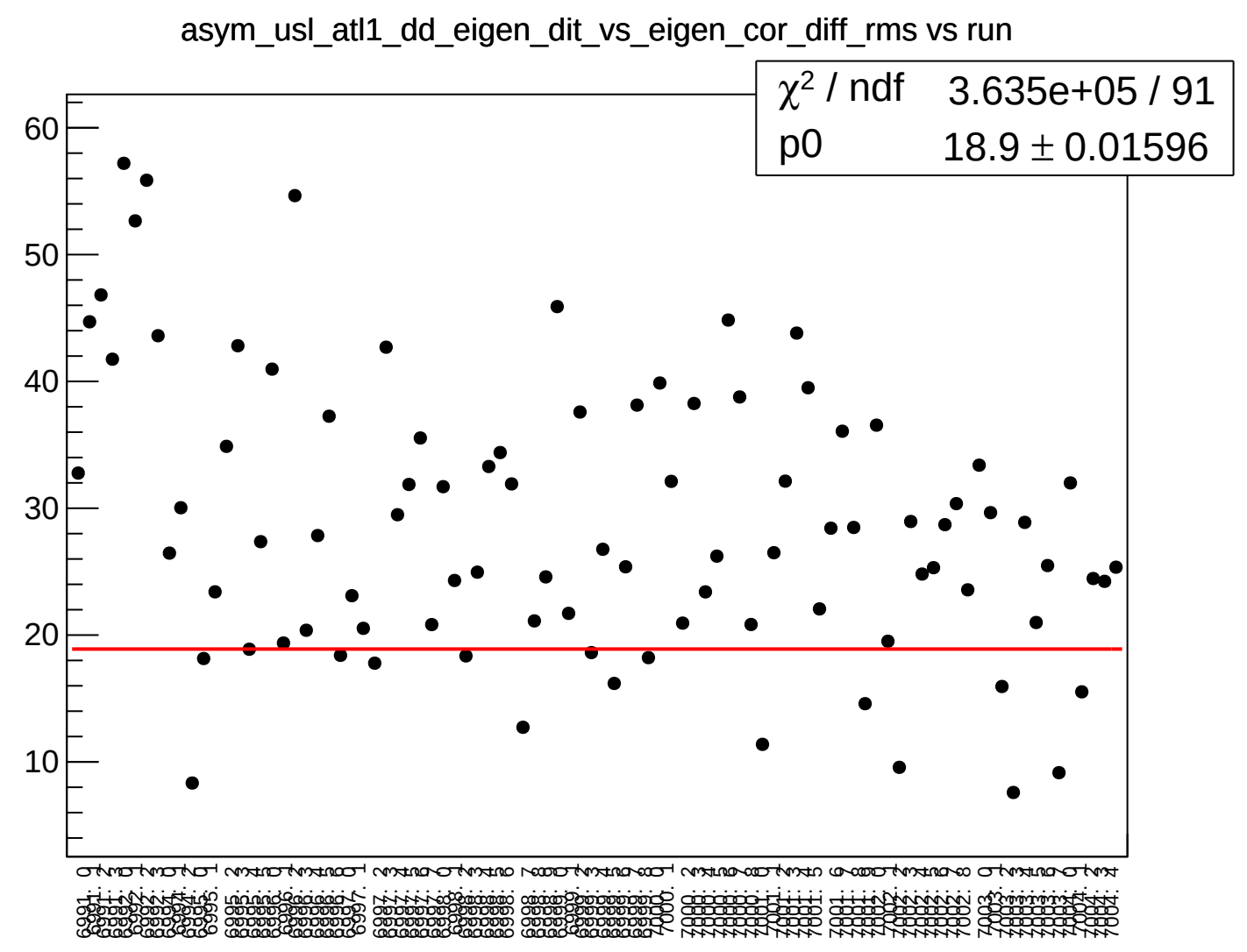

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8532 / 91
p0 0.003188 ± 2.405e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

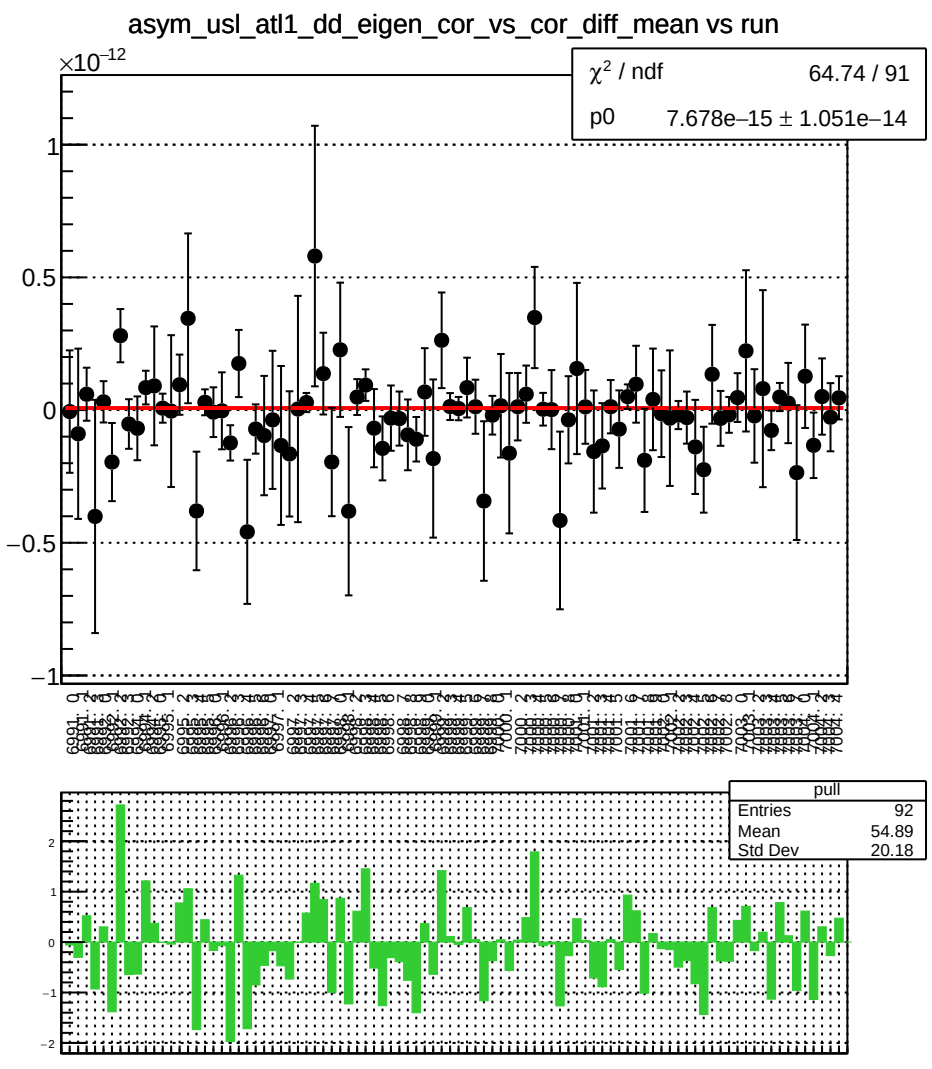

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.92 / 91
p0 −0.02658 ± 0.02257
pull
Entries 92
Mean 185
Std Dev 0
pull1D
Entries 92
Mean −0.01288
Std Dev 0.9606

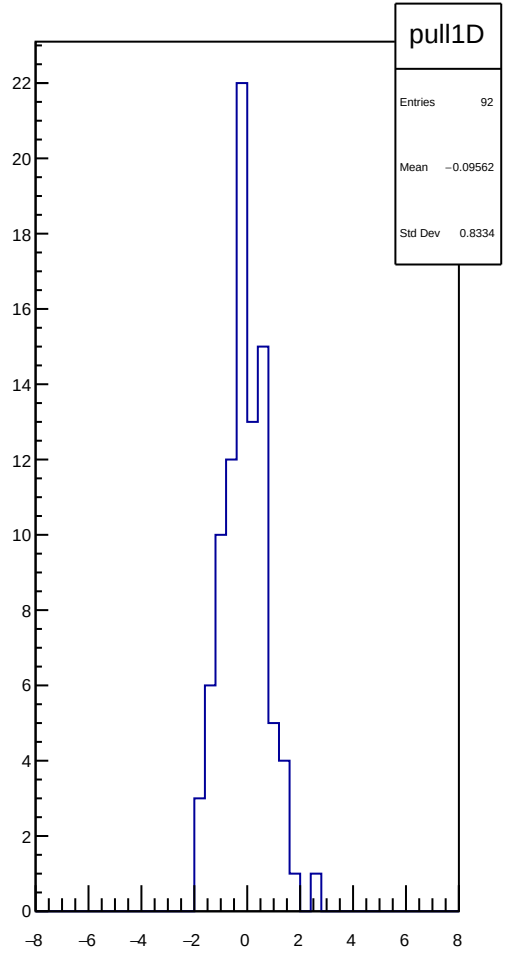

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.635e+05 / 91
p0 18.9 ± 0.01596
60
50
40
30
20
10

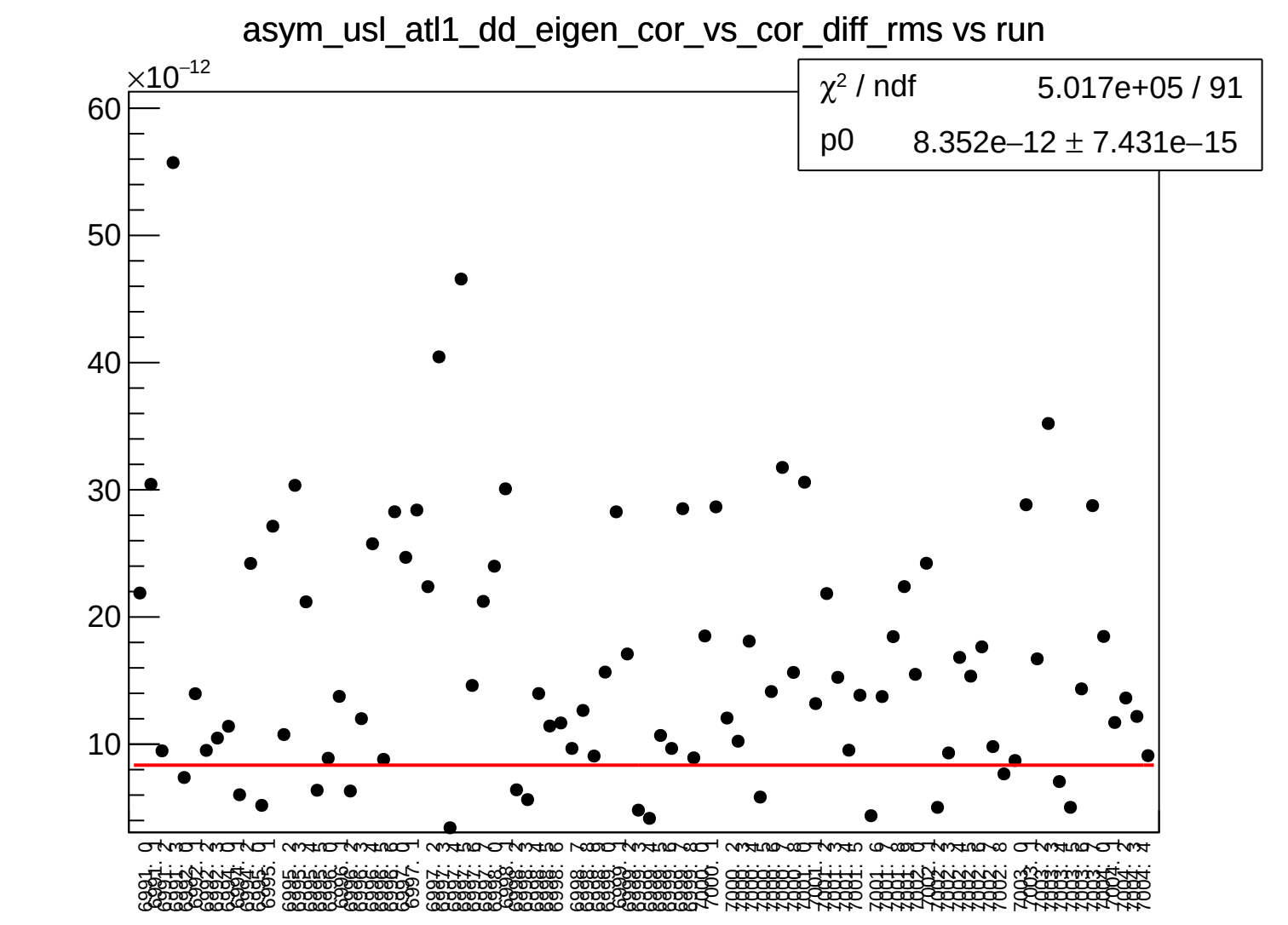

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.92 / 91
p0 −0.02658 ± 0.02257
pull
Entries 92
Mean 185
Std Dev 0

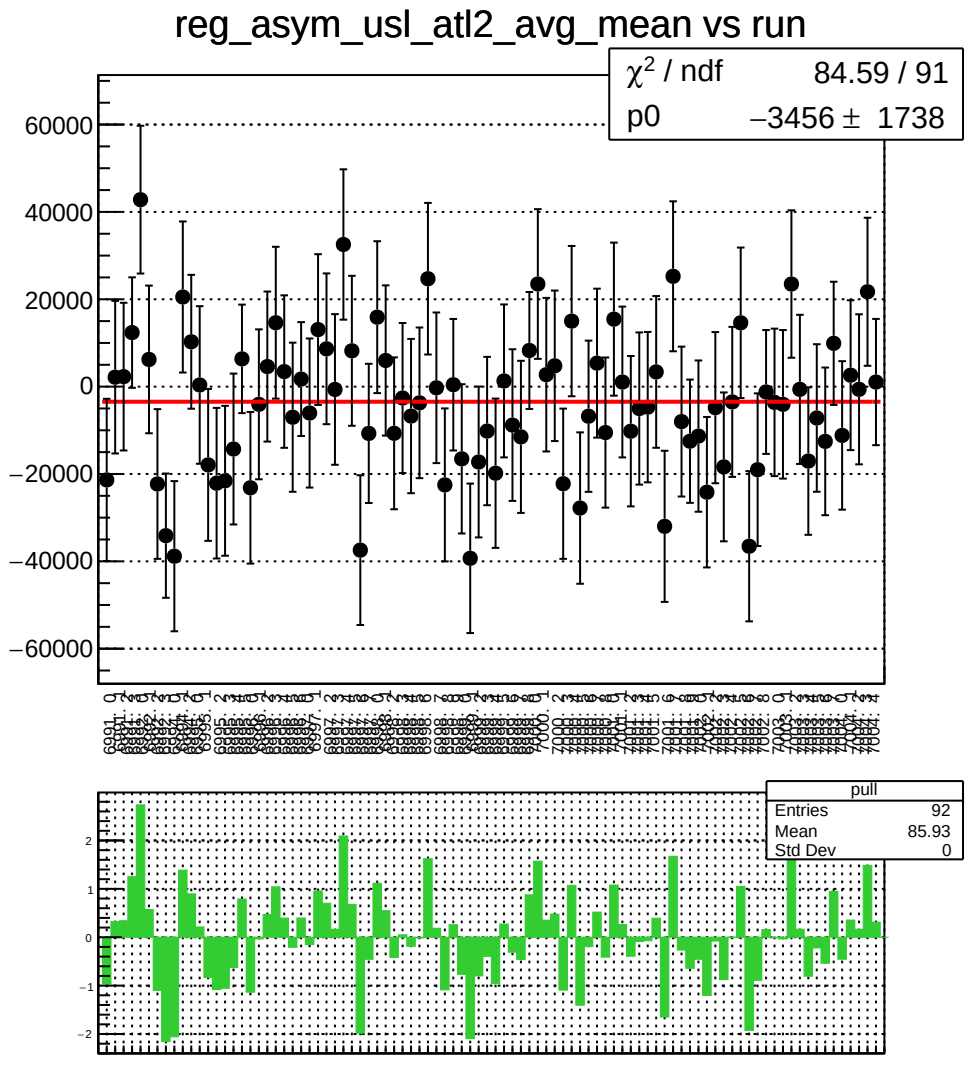

pull1D
Entries 92
Mean −0.01288
Std Dev 0.9606

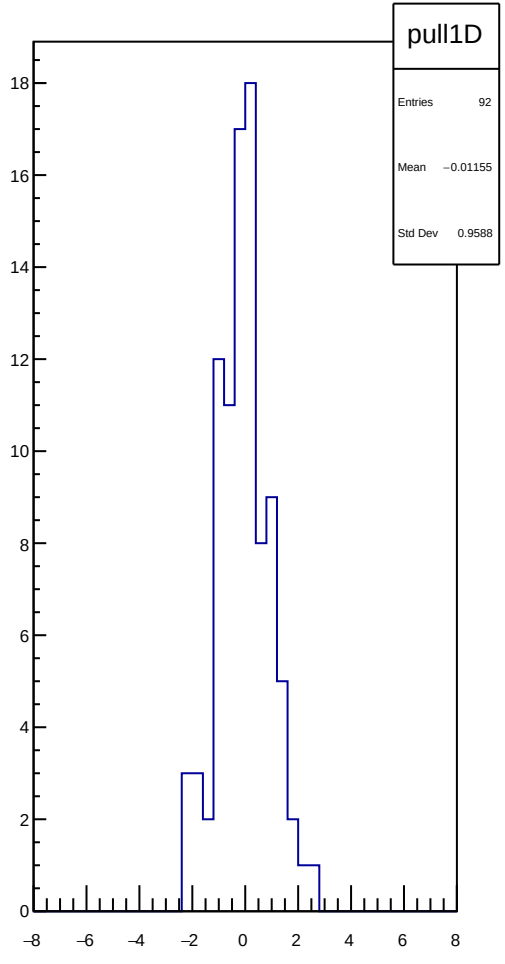

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.635e+05 / 91
p0 18.9 ± 0.01596
60
50
40
30
20
10

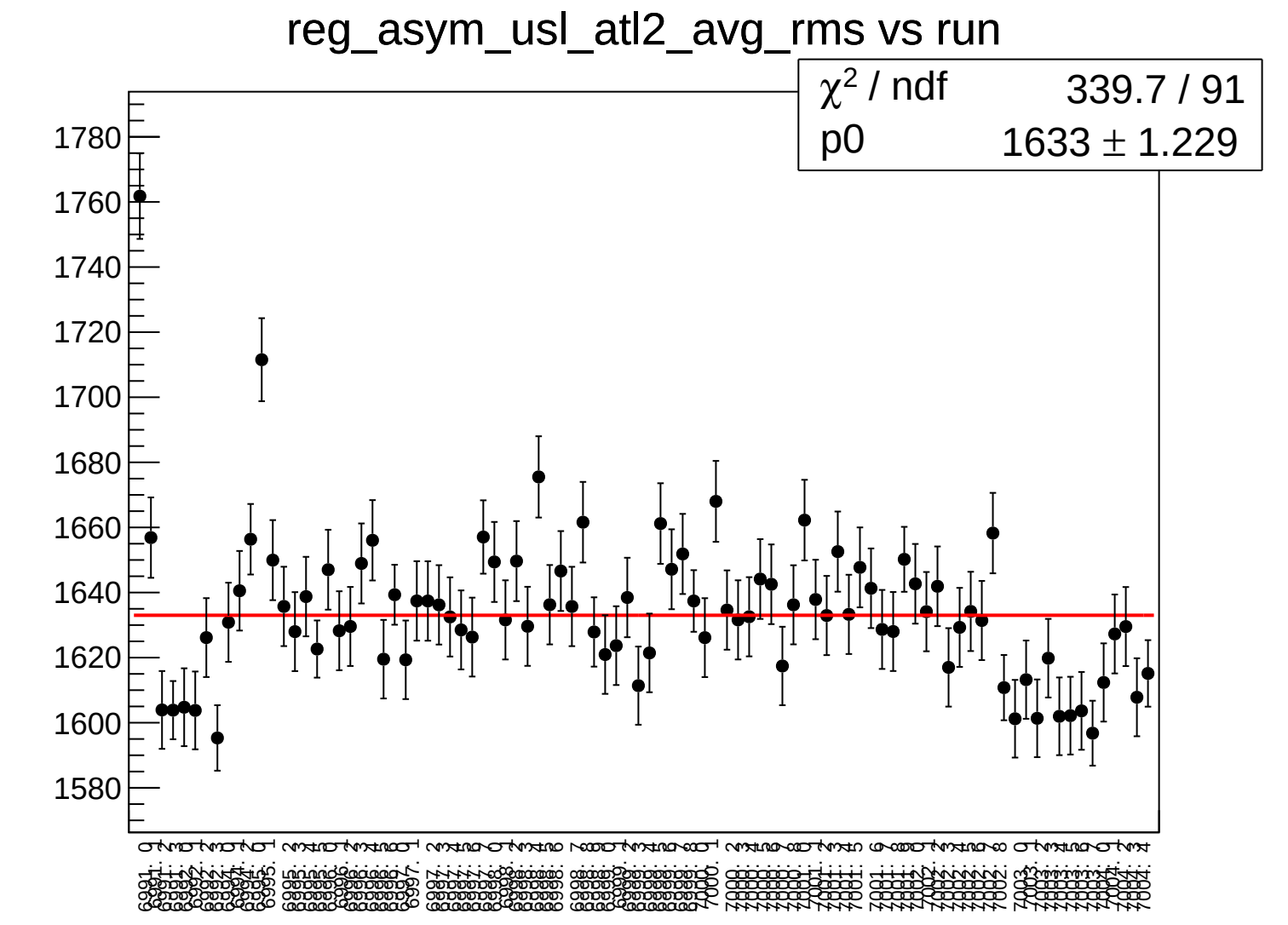

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.74 / 91
p0 7.678e−15 ± 1.051e−14
pull
Entries 92
Mean 54.89
Std Dev 20.18

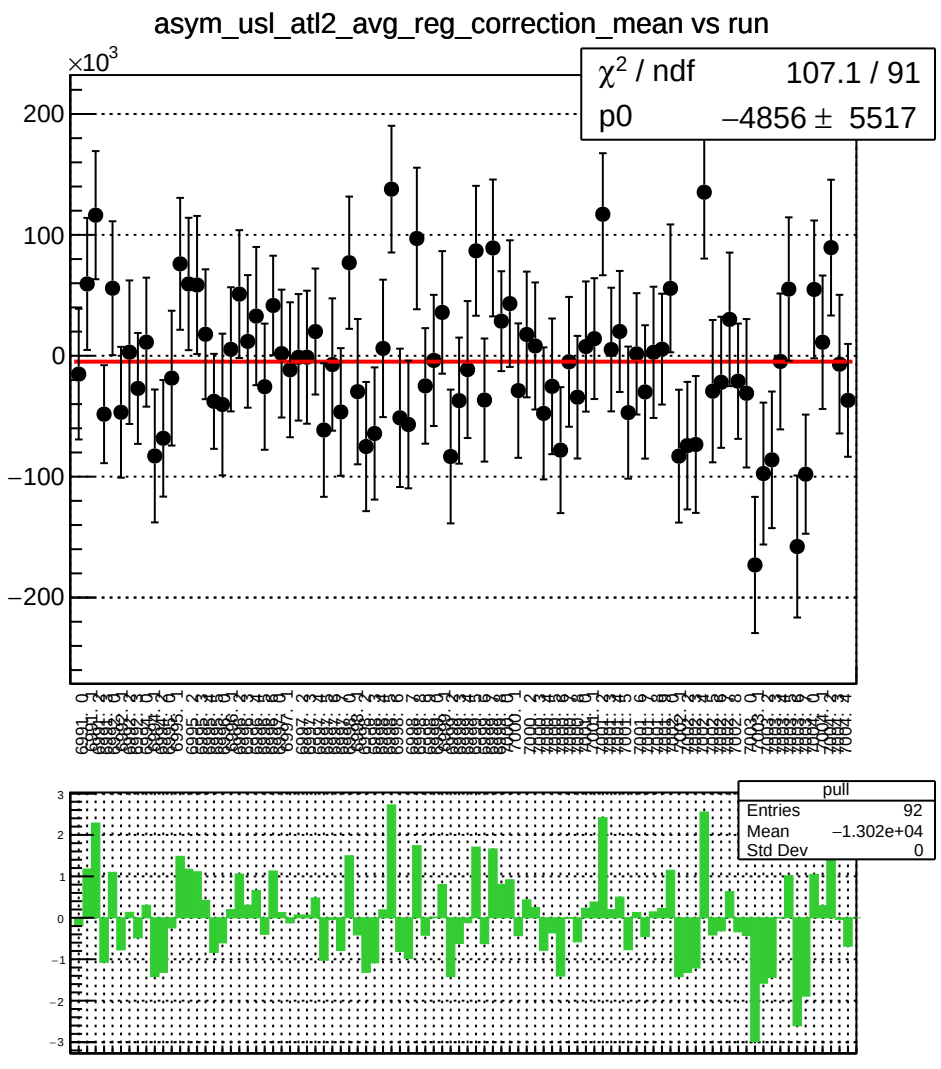

pull1D
Entries 92
Mean −0.09562
Std Dev 0.8334

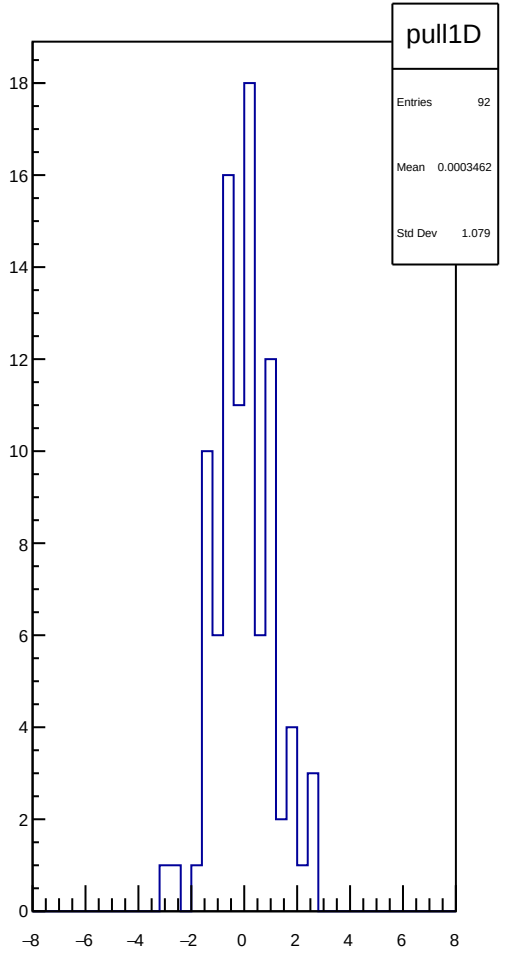

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.017e+05 / 91
p0 8.352e−12 ± 7.431e−15
60
50
40
30
20
10

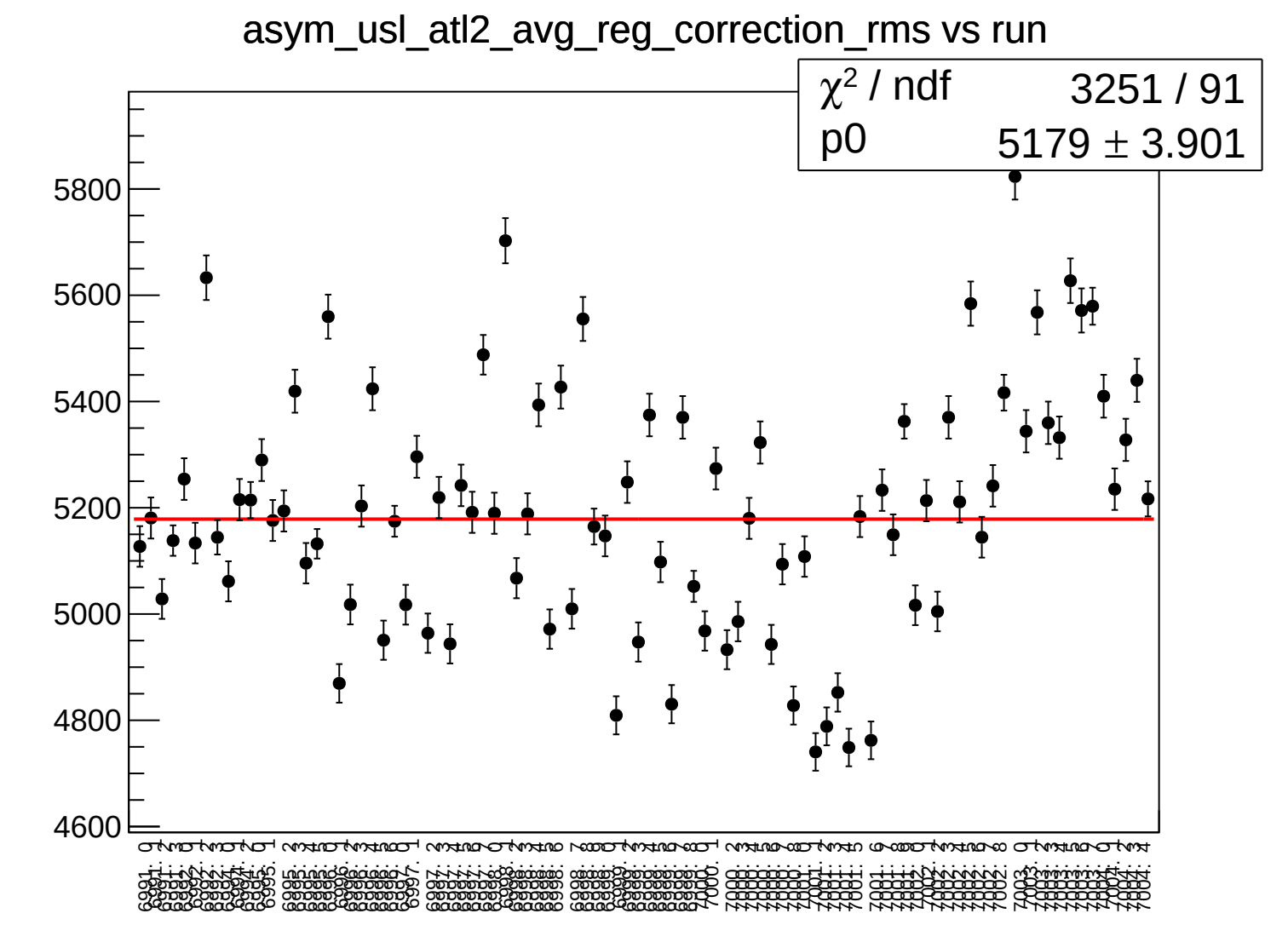

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.59 / 91
p0 −3456 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 85.93
Std Dev 0
2
1
0
−1
−2

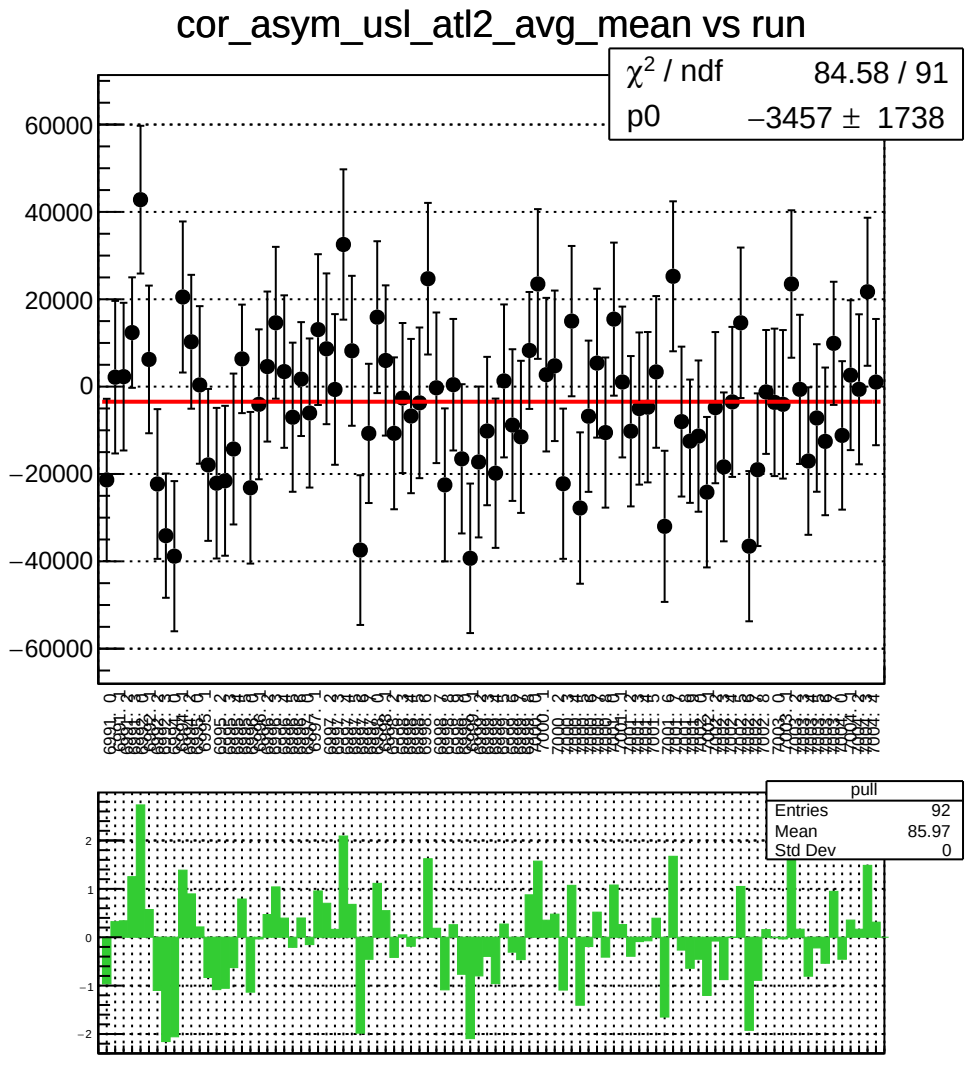

pull1D
Entries 92
Mean −0.01155
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

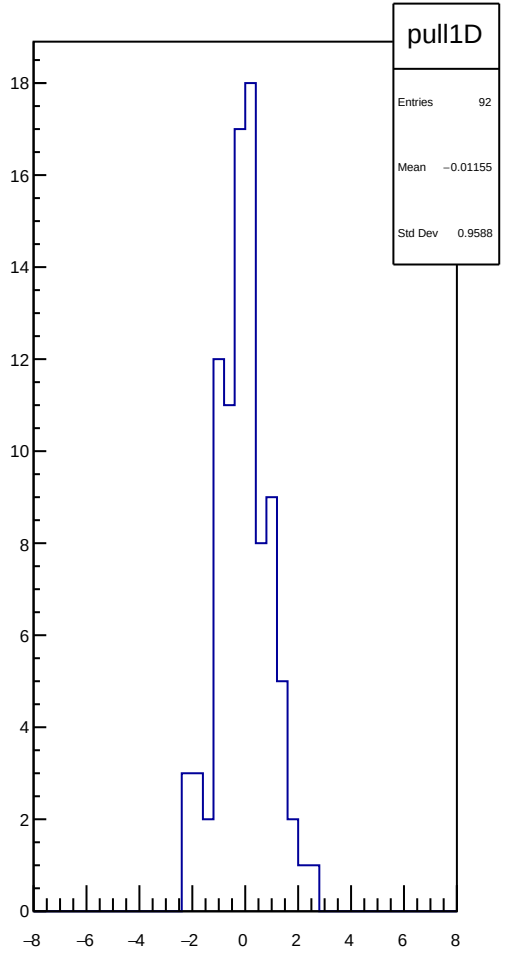

reg_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 339.7 / 91
p0 1633 ± 1.229
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

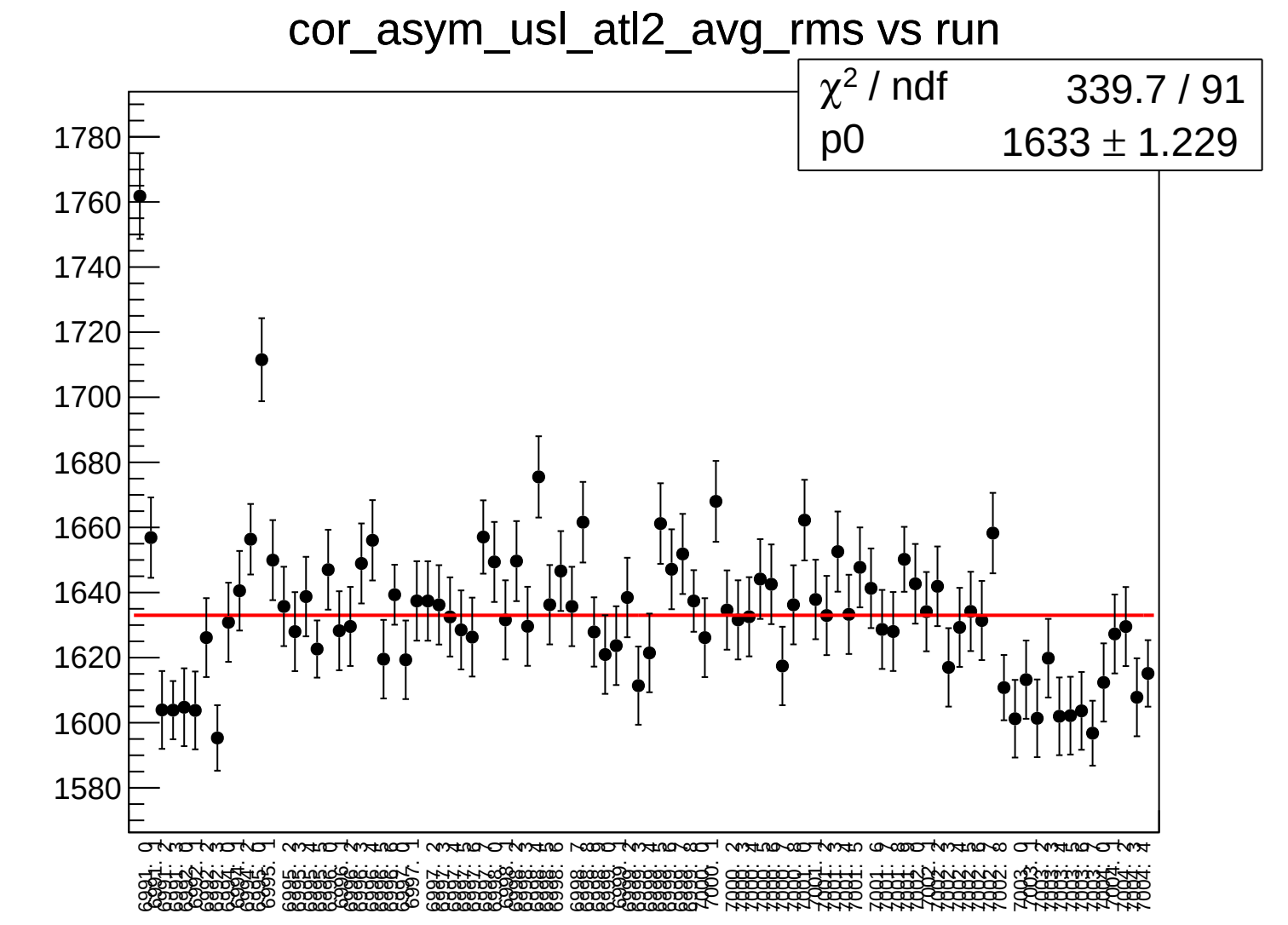

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 107.1 / 91
p0 −4856 ± 5517
200
100
0
−100
−200
pull
Entries 92
Mean −1.302e+04
Std Dev 0
3
2
1
0
−1
−2
−3

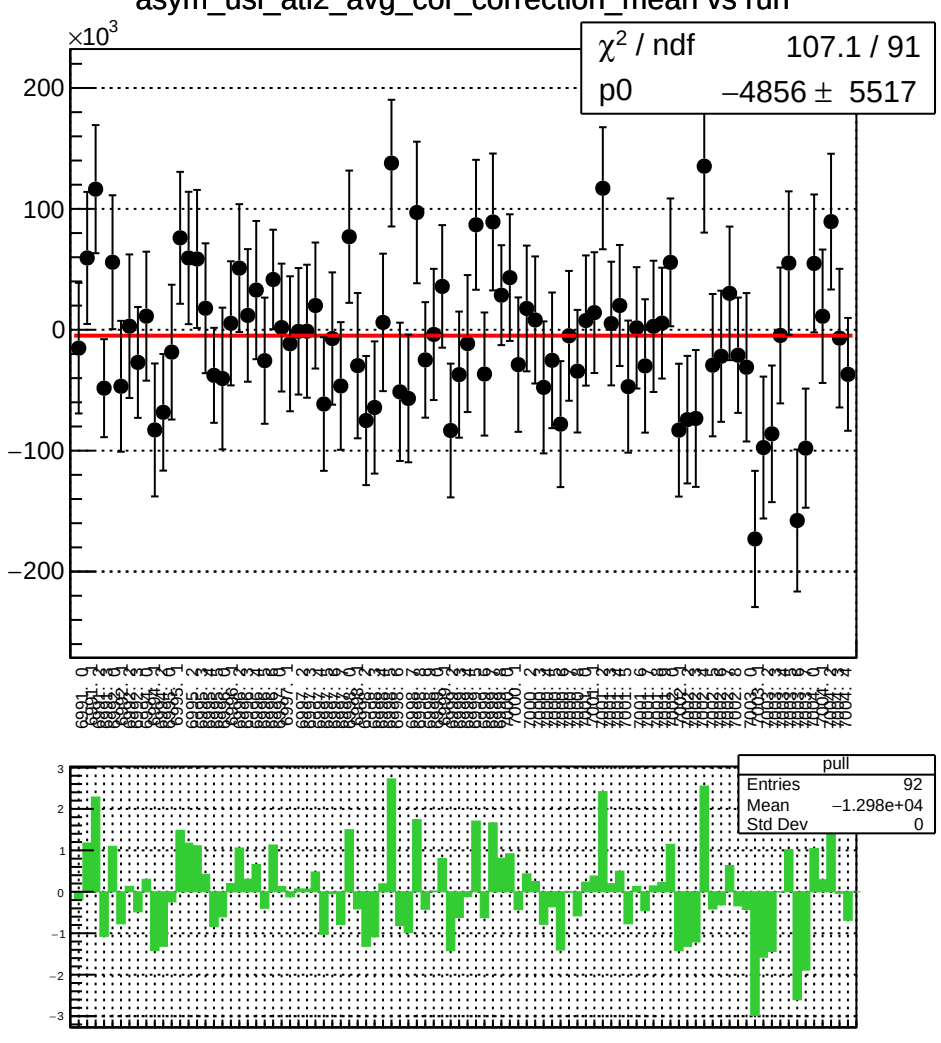

pull1D
Entries 92
Mean 0.0003462
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

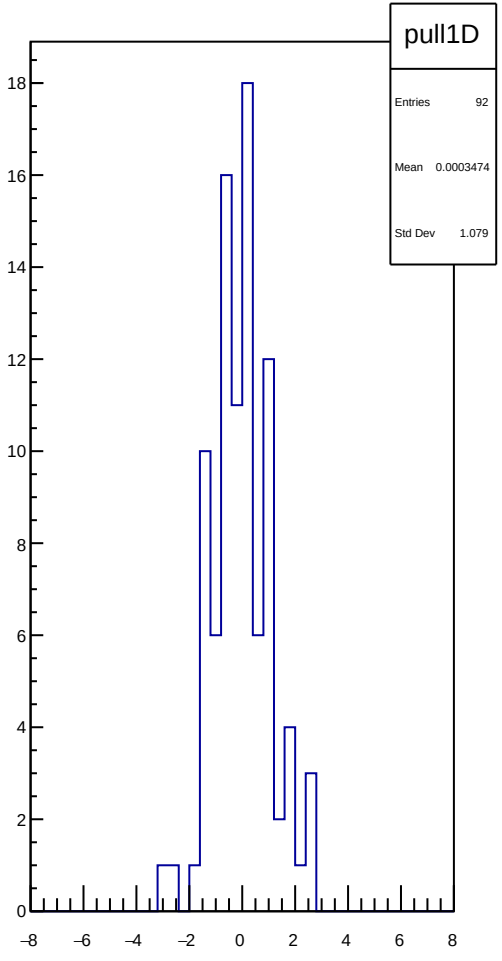

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 3251 / 91
p0 5179 ± 3.901
5800
5600
5400
5200
5000
4800
4600


cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.58 / 91
p0 −3457 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 85.97
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean −0.01155
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_usl_atl2_avg_rms vs run
χ² / ndf 339.7 / 91
p0 1633 ± 1.229
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580


asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 107.1 / 91
p0 −4856 ± 5517
200
100
0
−100
−200
pull
Entries 92
Mean −1.298e+04
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 92
Mean 0.0003474
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
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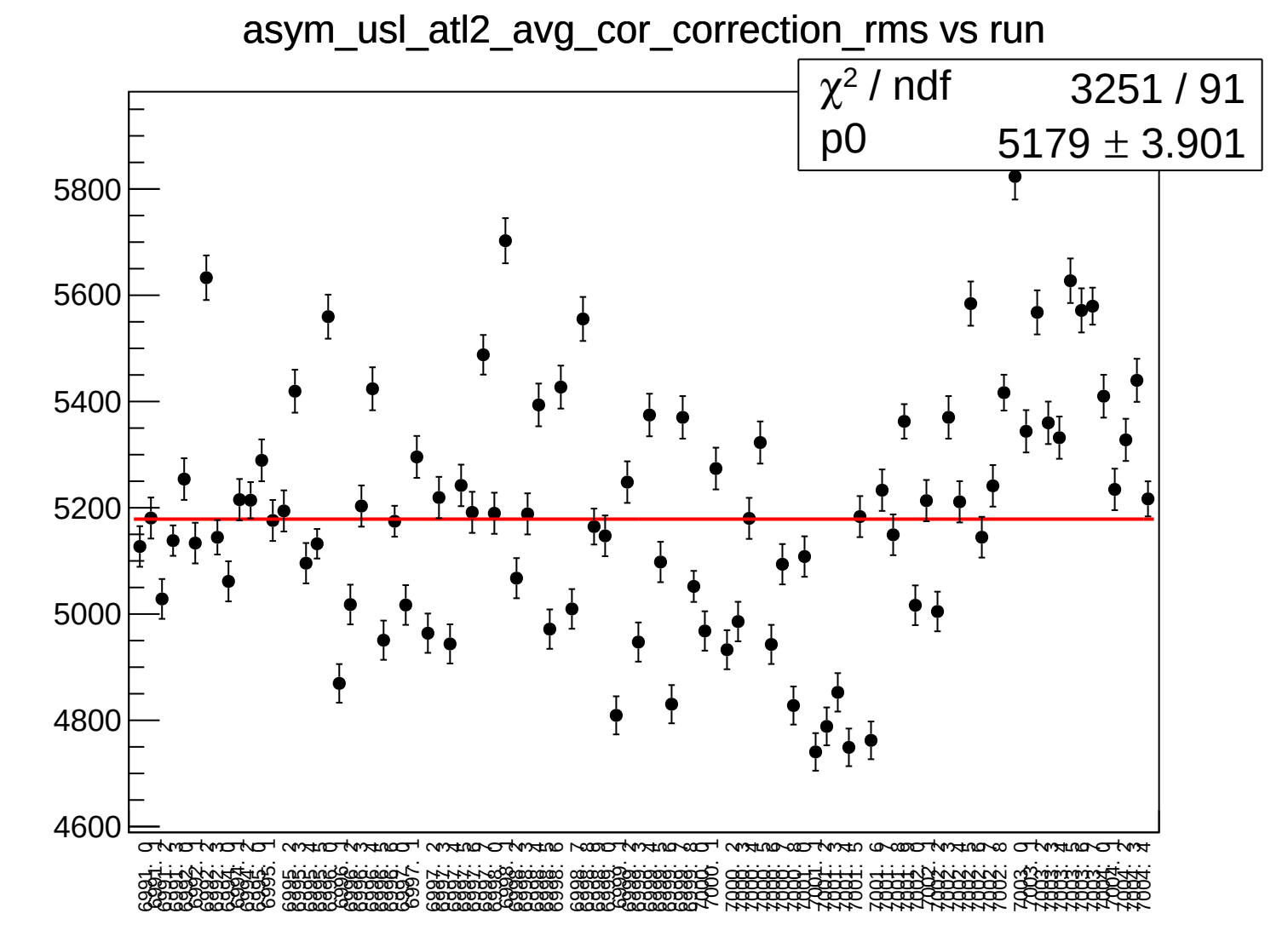
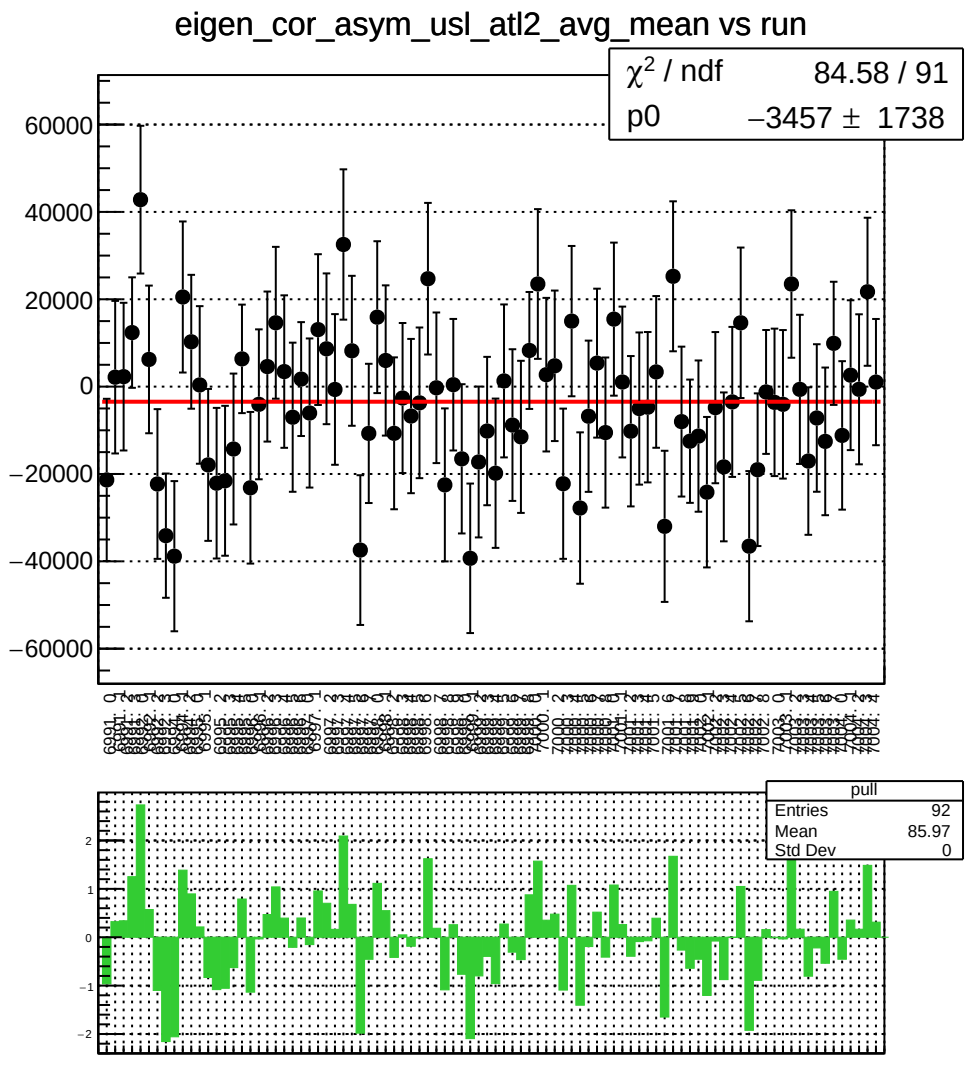
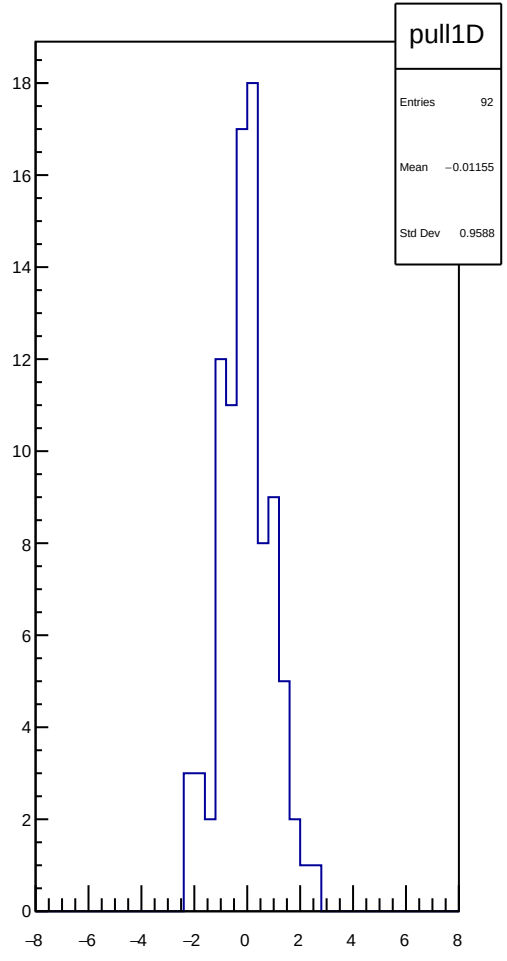
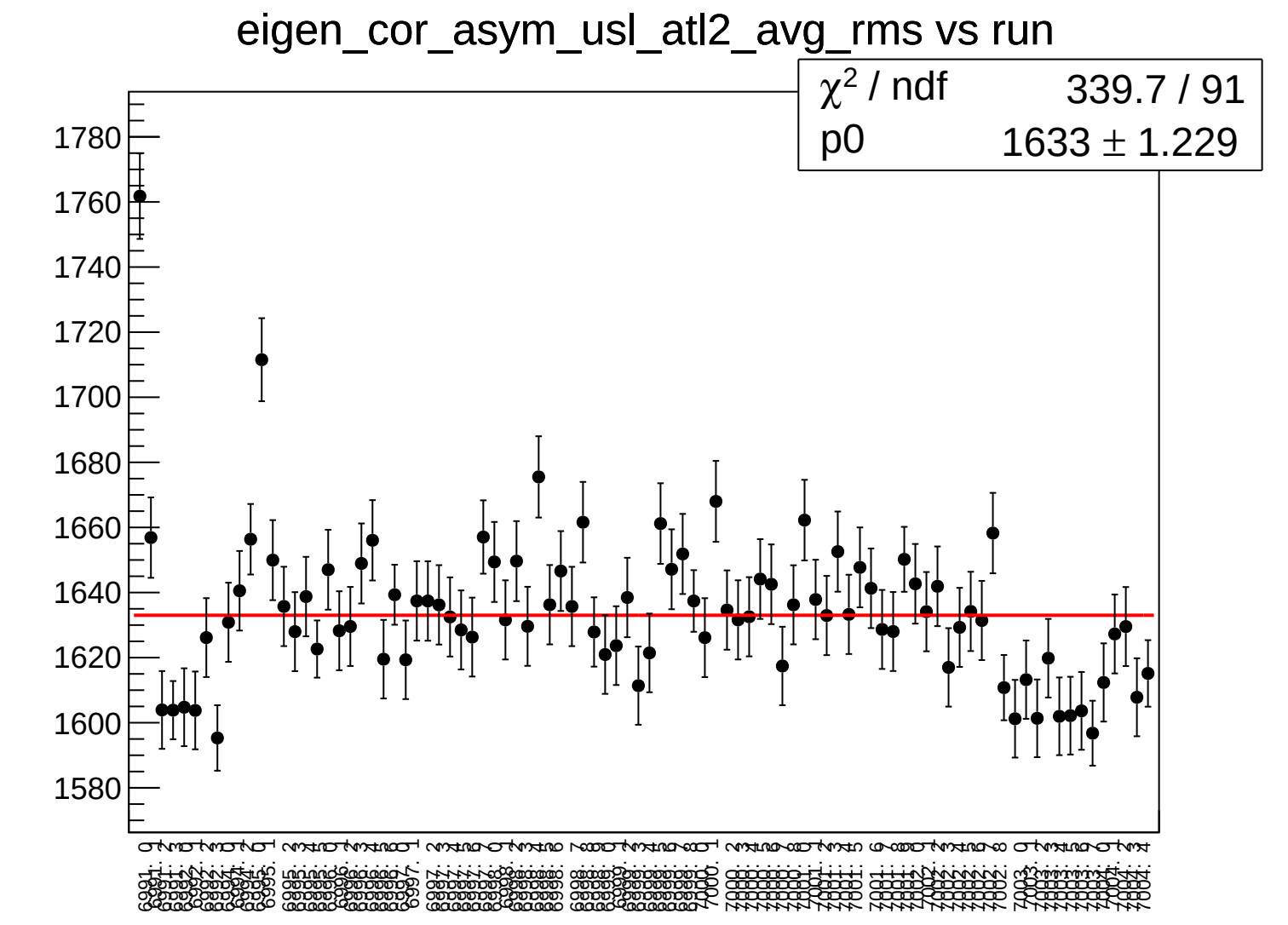
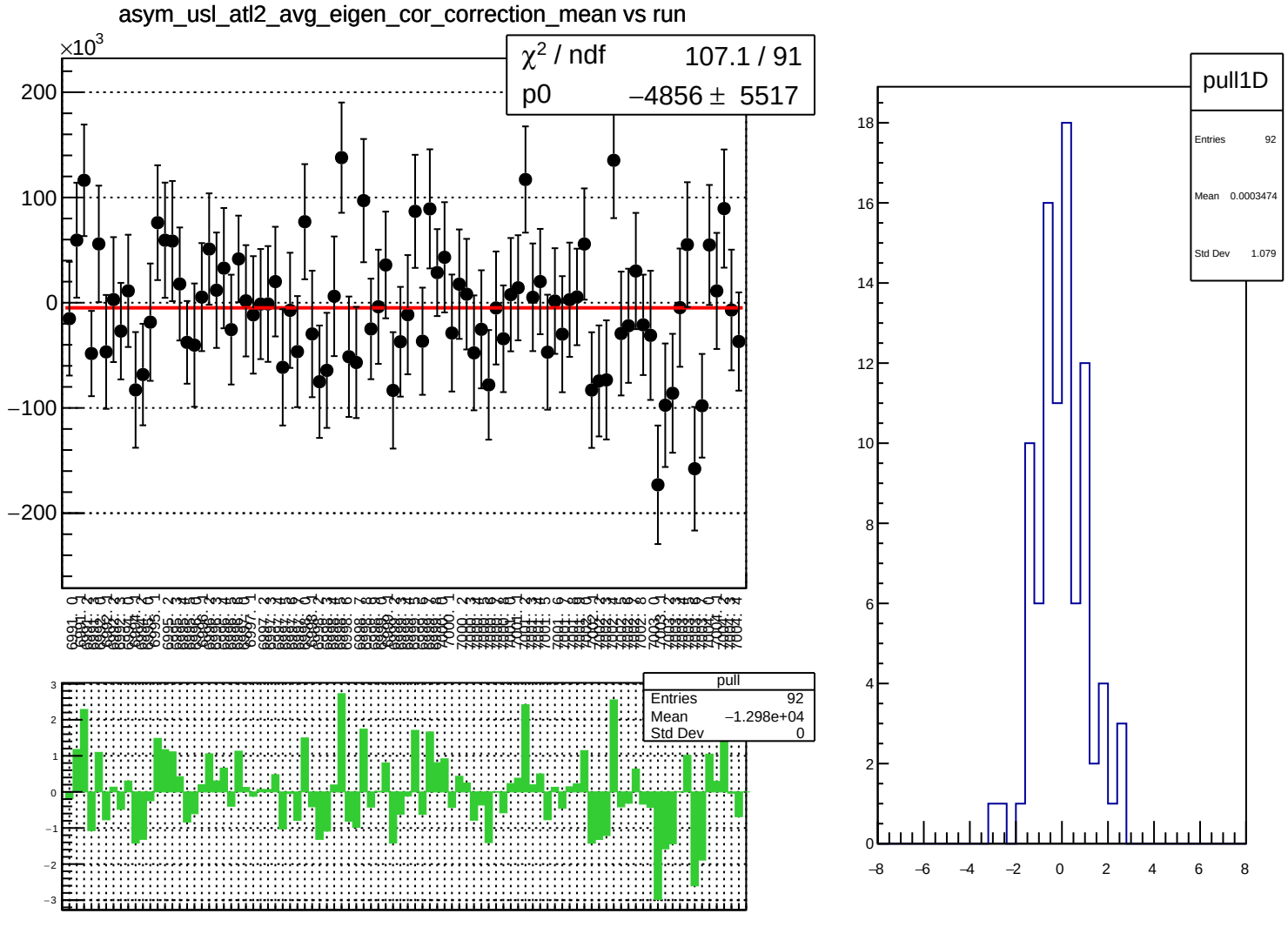
0
2
4
6
8

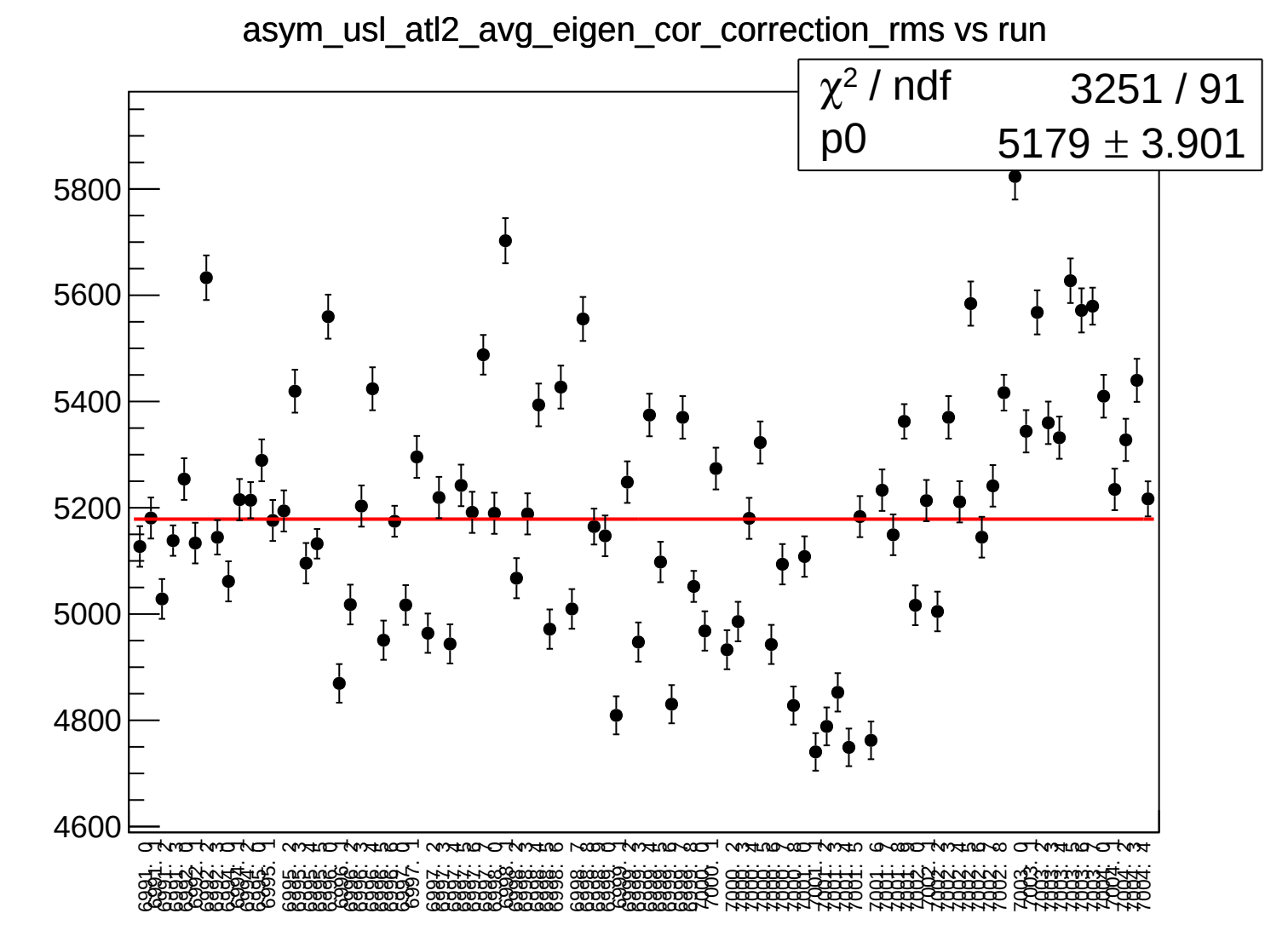

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 3251 / 91
p0 5179 ± 3.901
5800
5600
5400
5200
5000
4800
4600

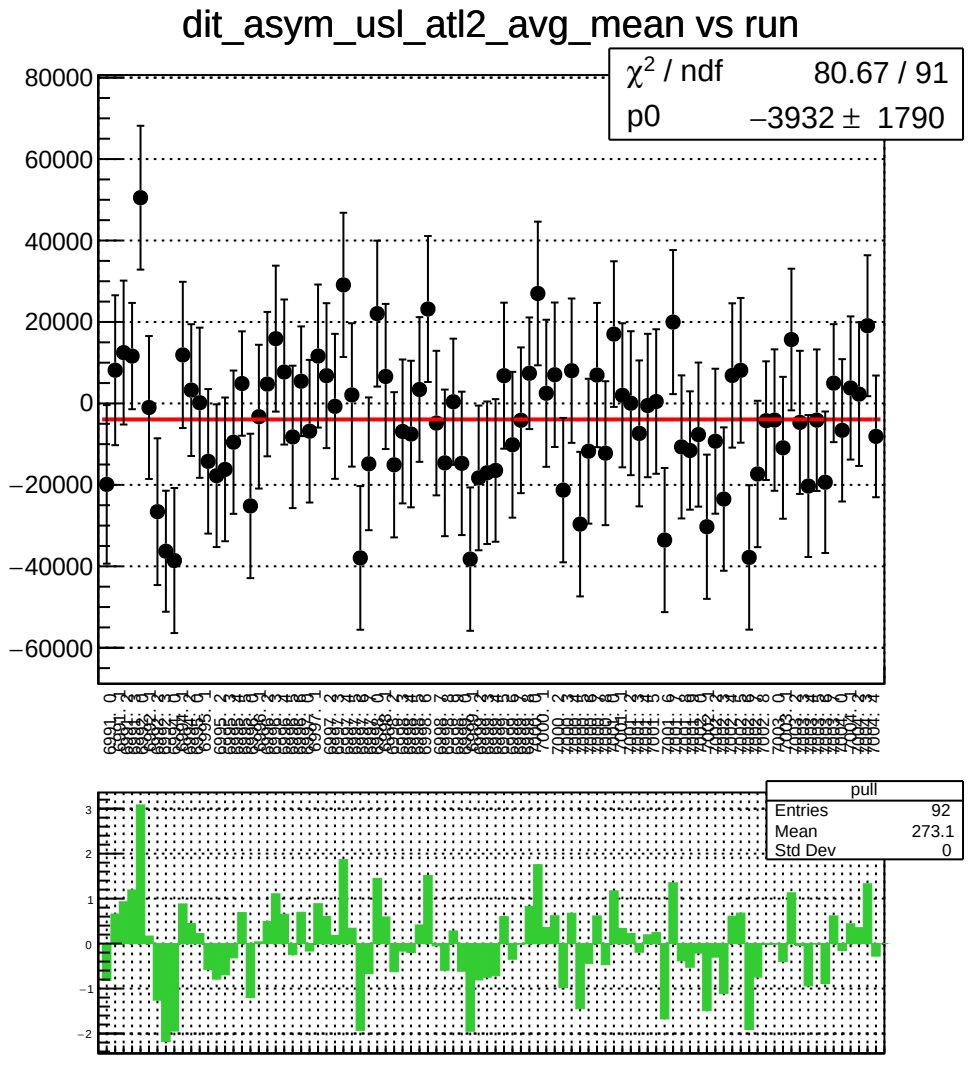

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 84.58 / 91
p0 −3457 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 85.97
Std Dev 0
2
1
0
−1
−2

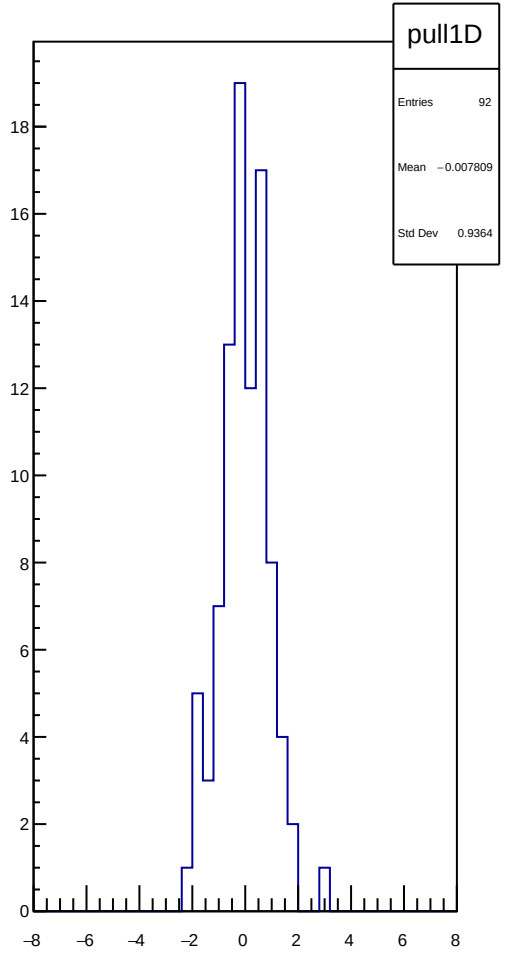

pull1D
Entries 92
Mean −0.01155
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

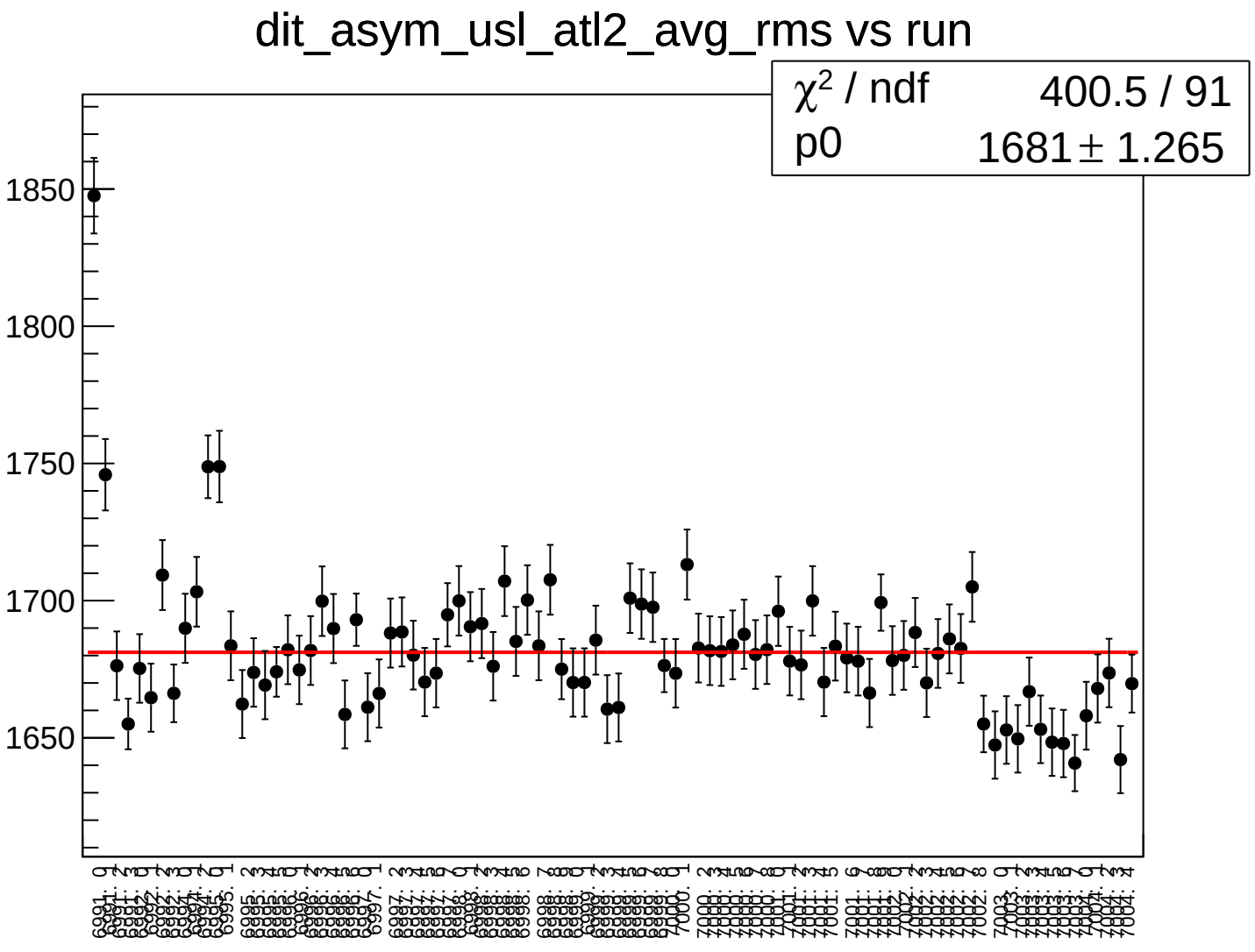

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 339.7 / 91
p0 1633 ± 1.229
1780
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

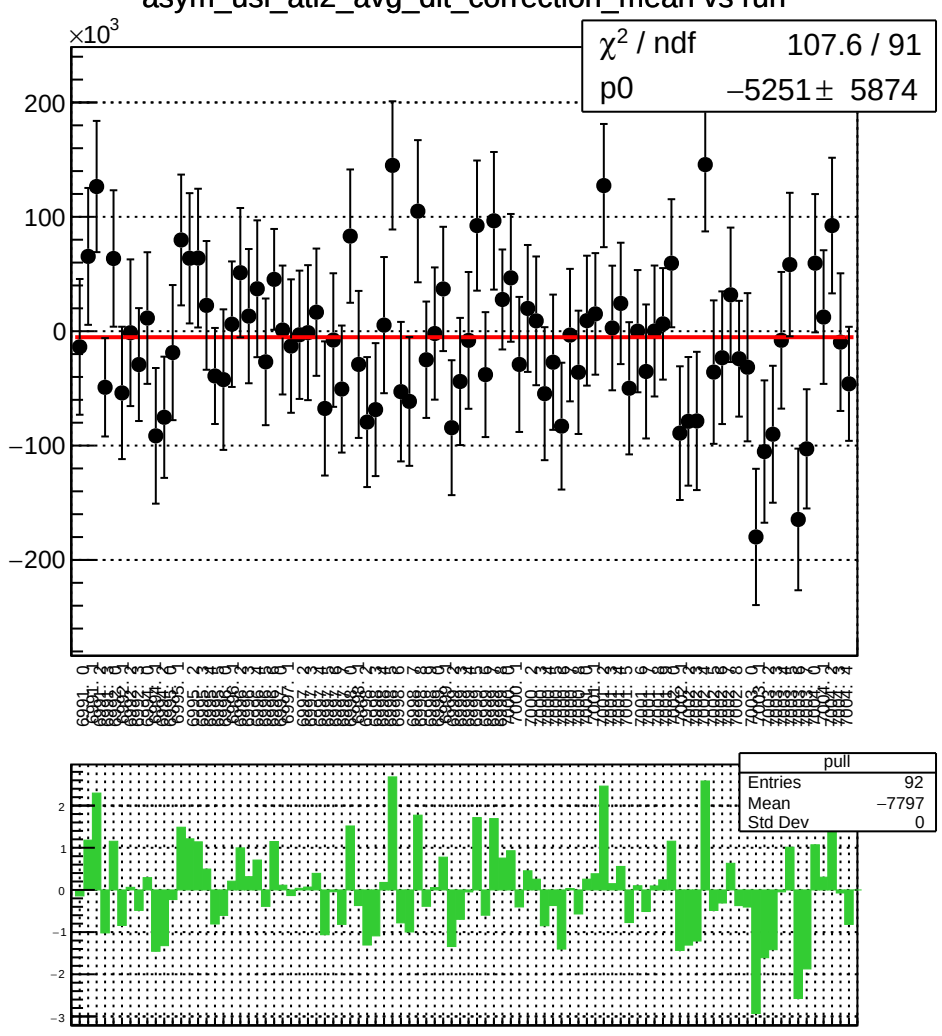

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 107.1 / 91
p0 −4856 ± 5517
200
100
0
−100
−200
pull
Entries 92
Mean −1.298e+04
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0003474
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

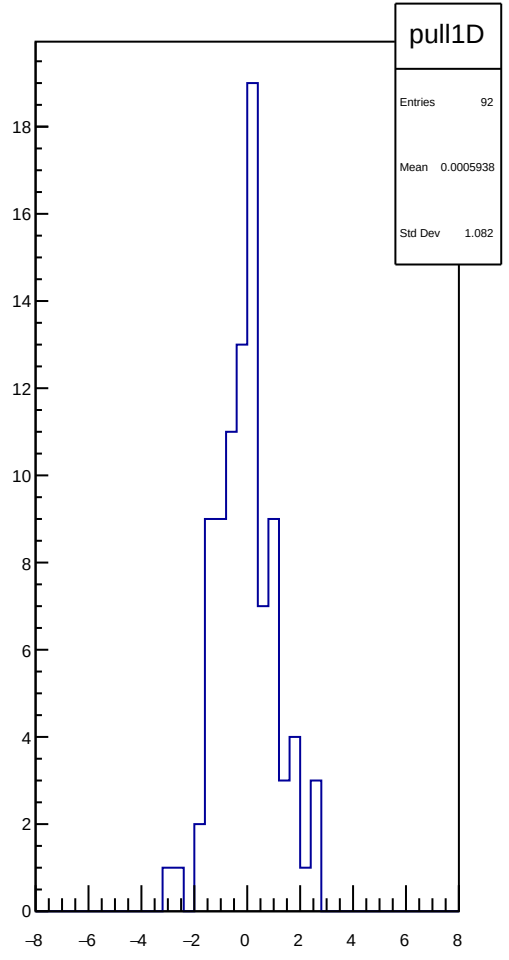

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3251 / 91
p0 5179 ± 3.901
5800
5600
5400
5200
5000
4800
4600

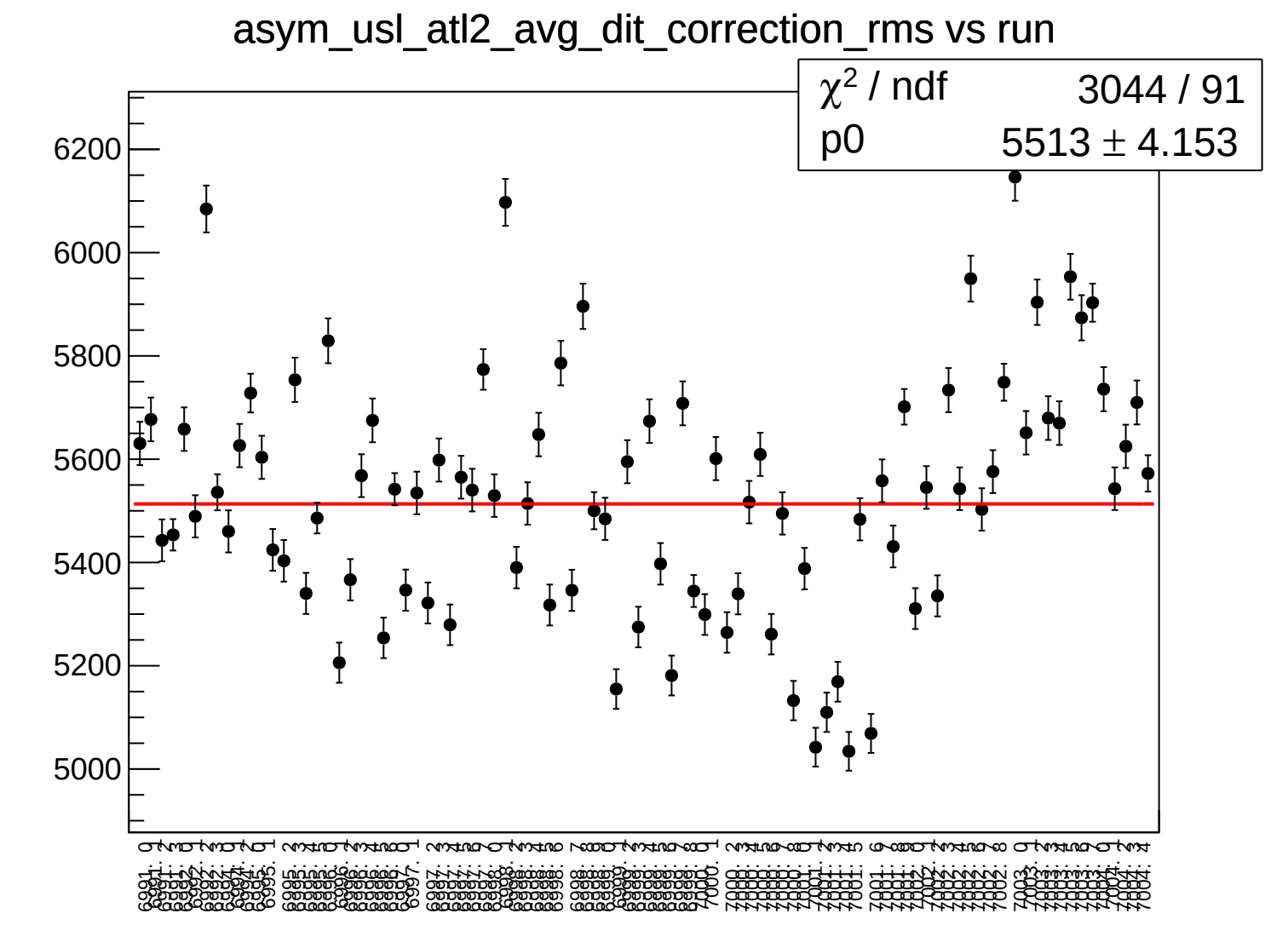

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.67 / 91
p0 −3932 ± 1790
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 273.1
Std Dev 0
3
2
1
0
−1
−2

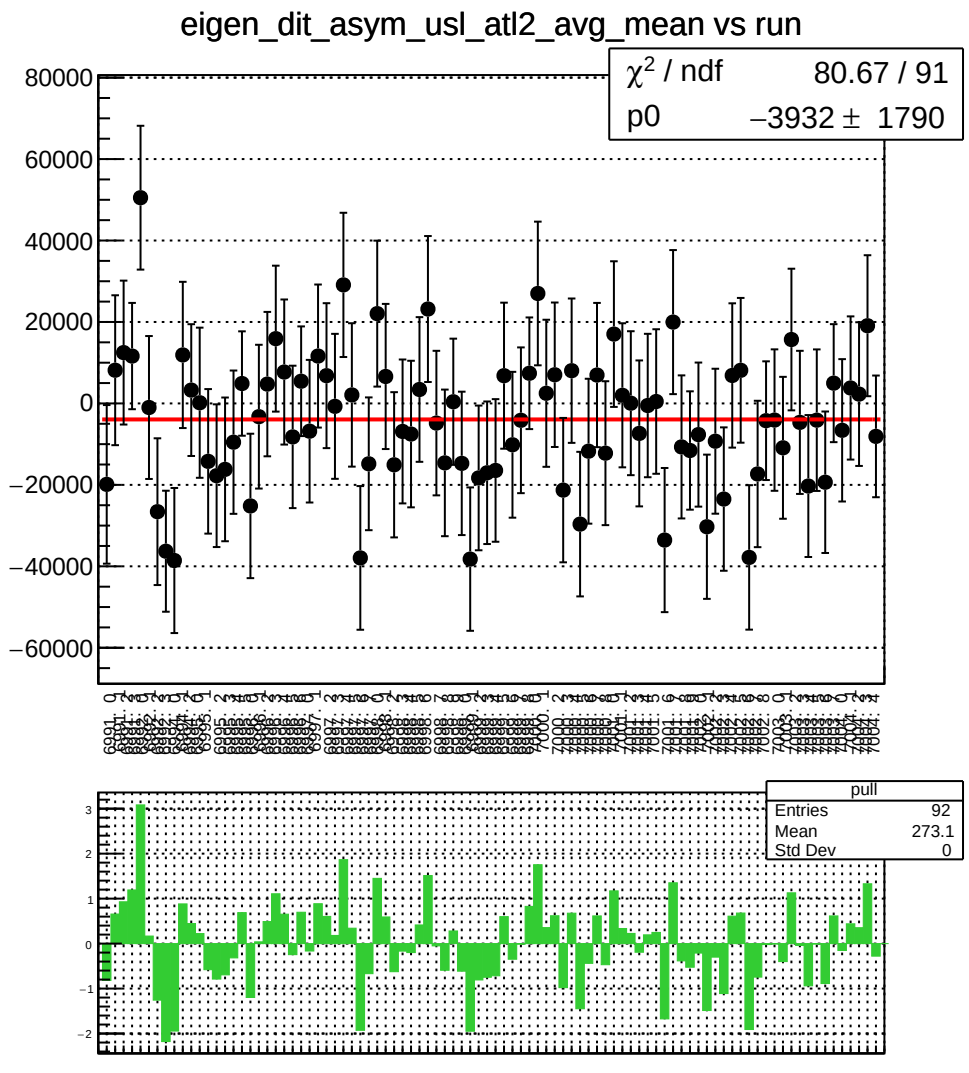

pull1D
Entries 92
Mean −0.007809
Std Dev 0.9364
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

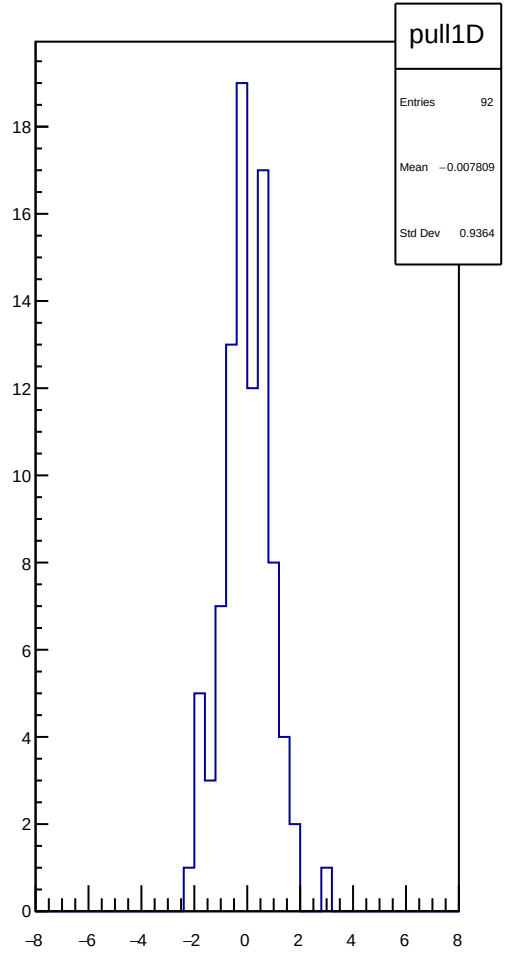

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 400.5 / 91
p0 1681 ± 1.265
1850
1800
1750
1700
1650

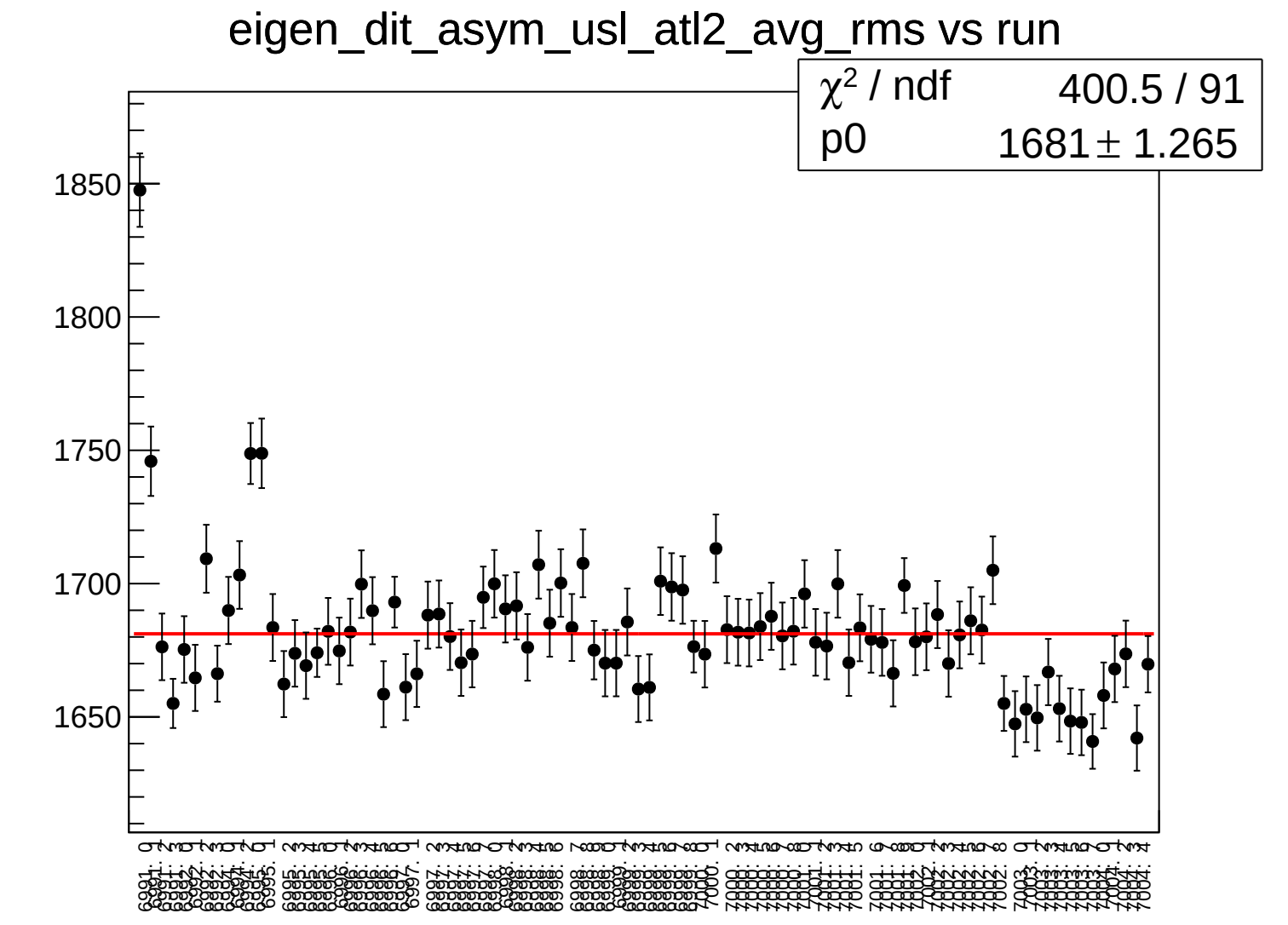

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.6 / 91
p0 −5251 ± 5874
200
100
0
−100
−200
pull
Entries 92
Mean −7797
Std Dev 0
2
1
0
−1
−2
−3

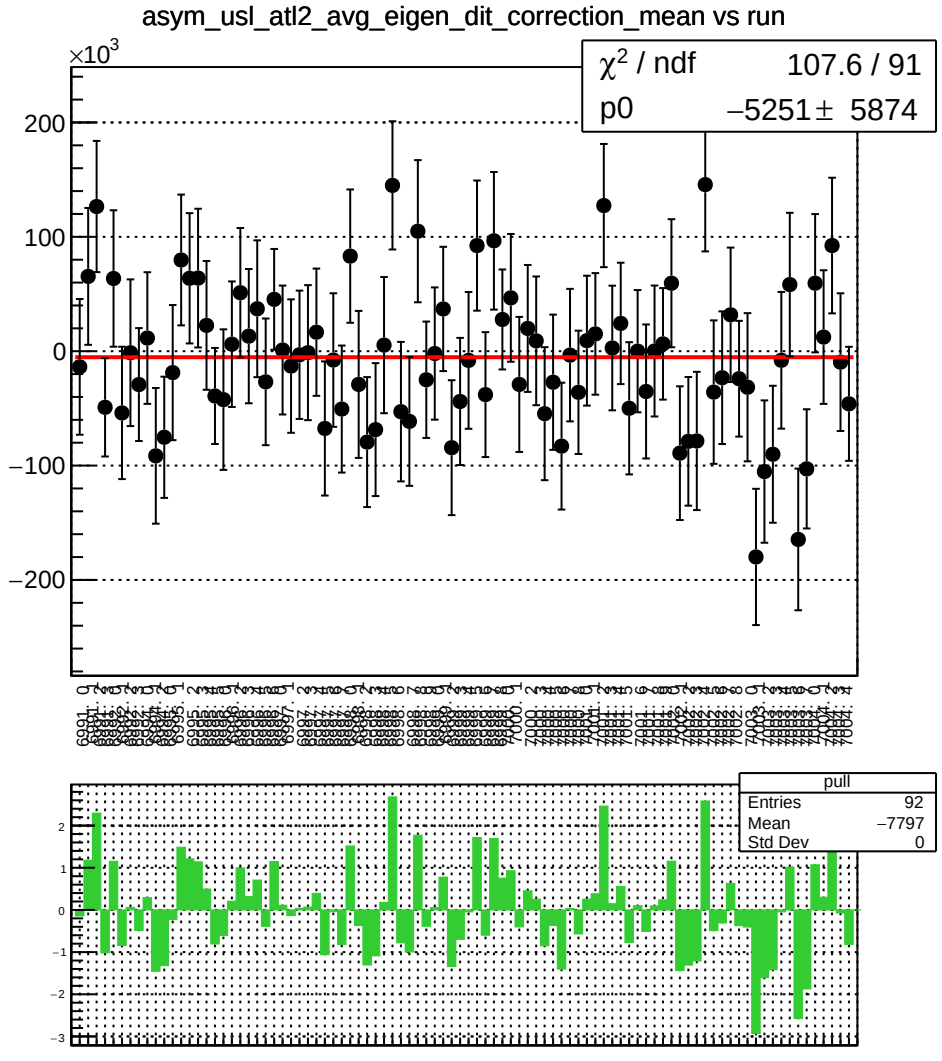

pull1D
Entries 92
Mean 0.0005938
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

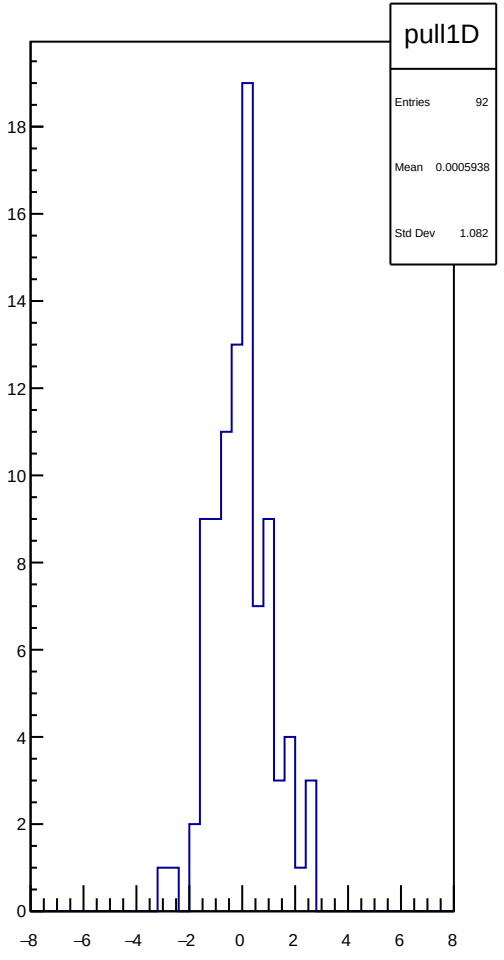

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 3044 / 91
p0 5513 ± 4.153
6200
6000
5800
5600
5400
5200
5000

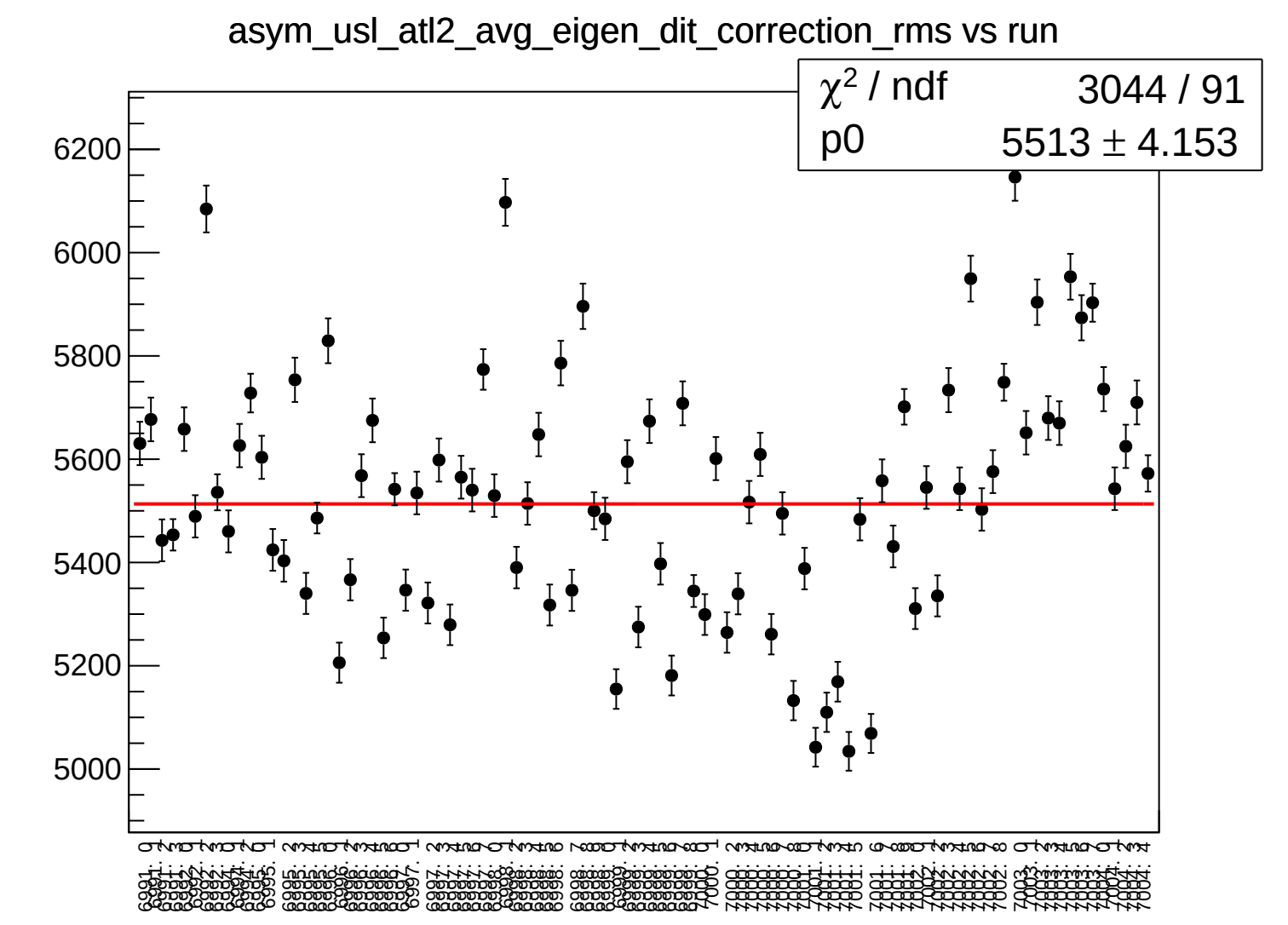

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 80.67 / 91
p0 −3932 ± 1790
pull
Entries 92
Mean 273.1
Std Dev 0

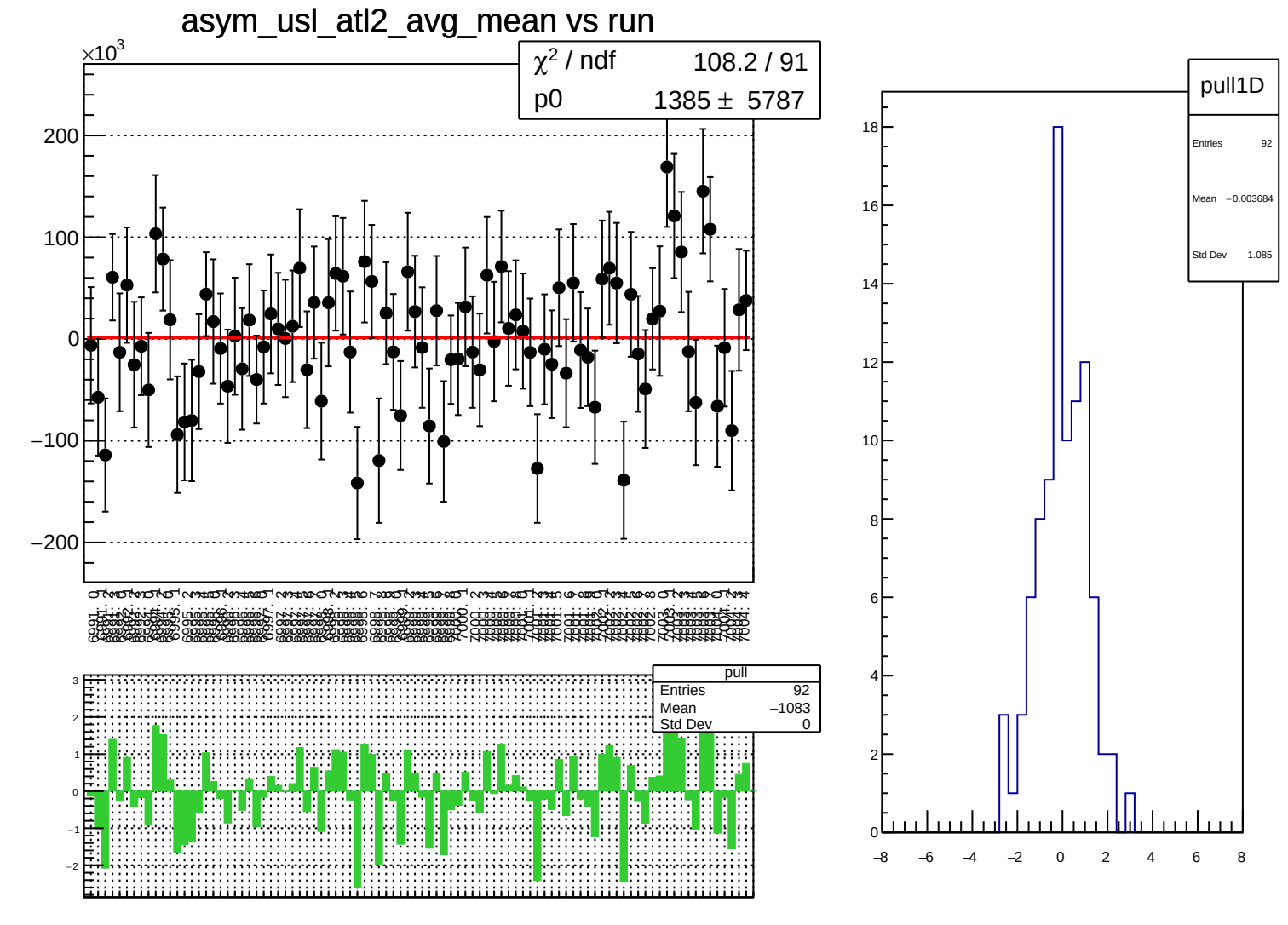

pull1D
Entries 92
Mean −0.007809
Std Dev 0.9364

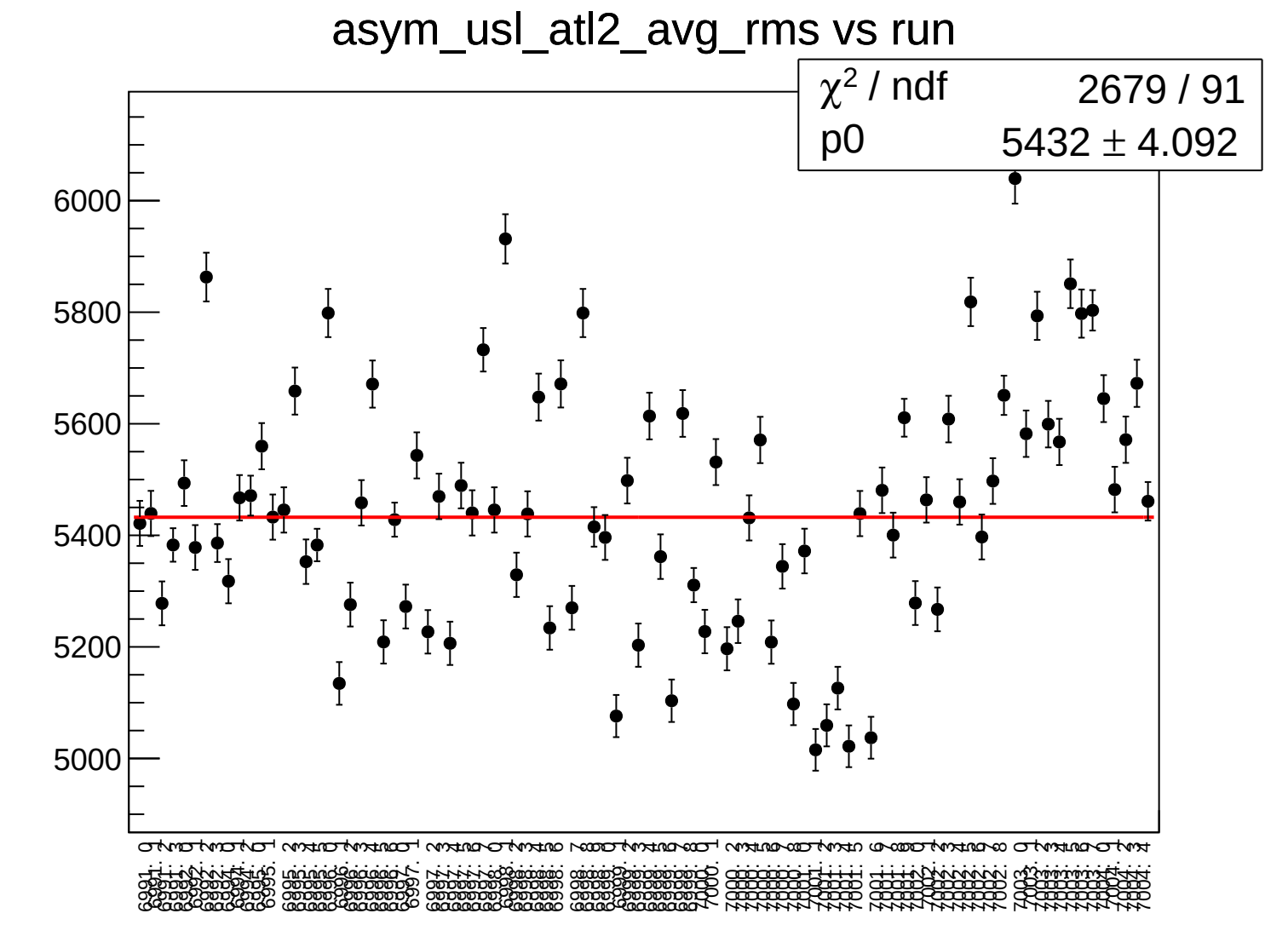

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 400.5 / 91
p0 1681 ± 1.265
1850
1800
1750
1700
1650

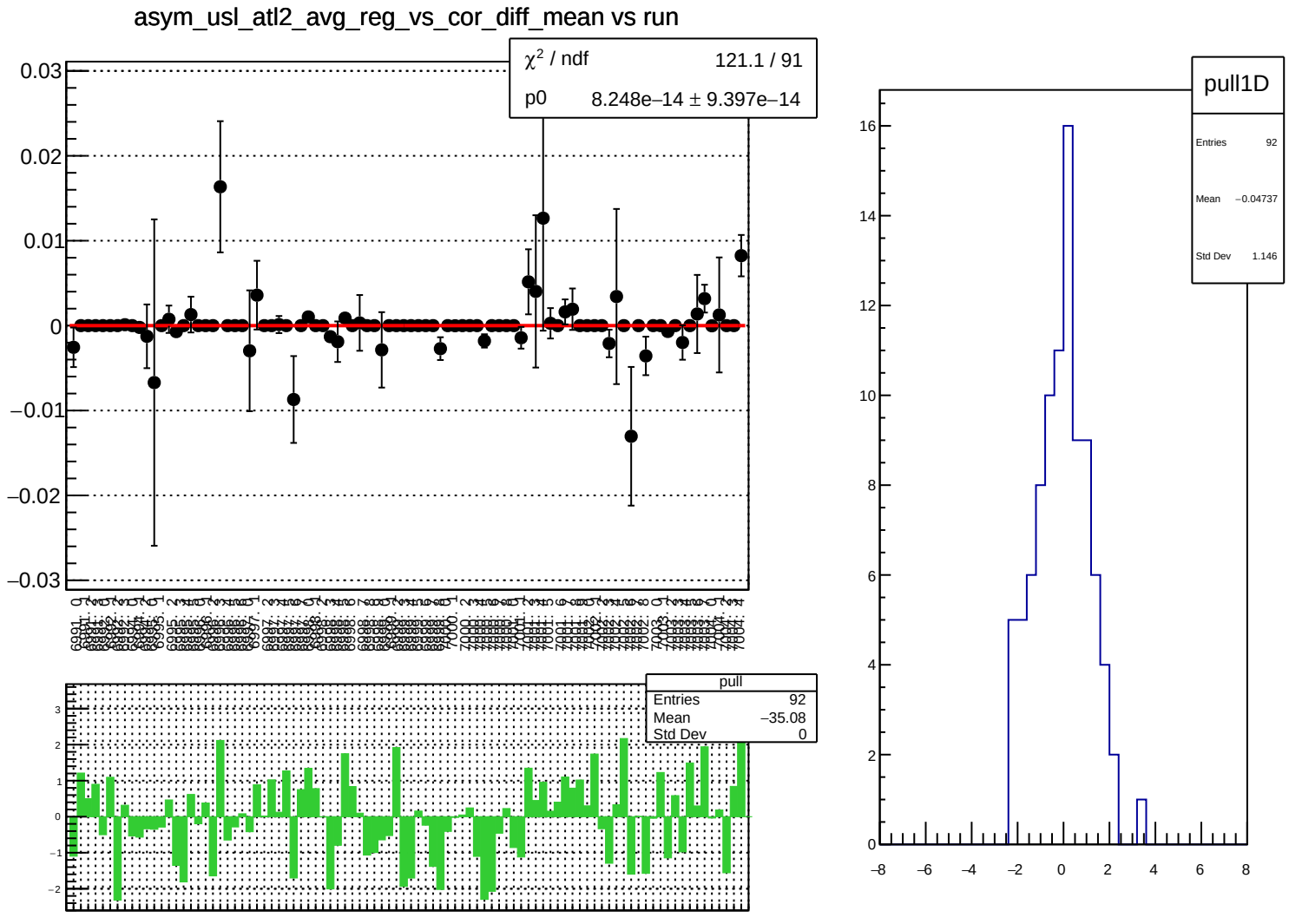

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.6 / 91
p0 −5251 ± 5874
200
100
0
−100
−200
pull
Entries 92
Mean −7797
Std Dev 0
2
1
0
−1
−2
−3

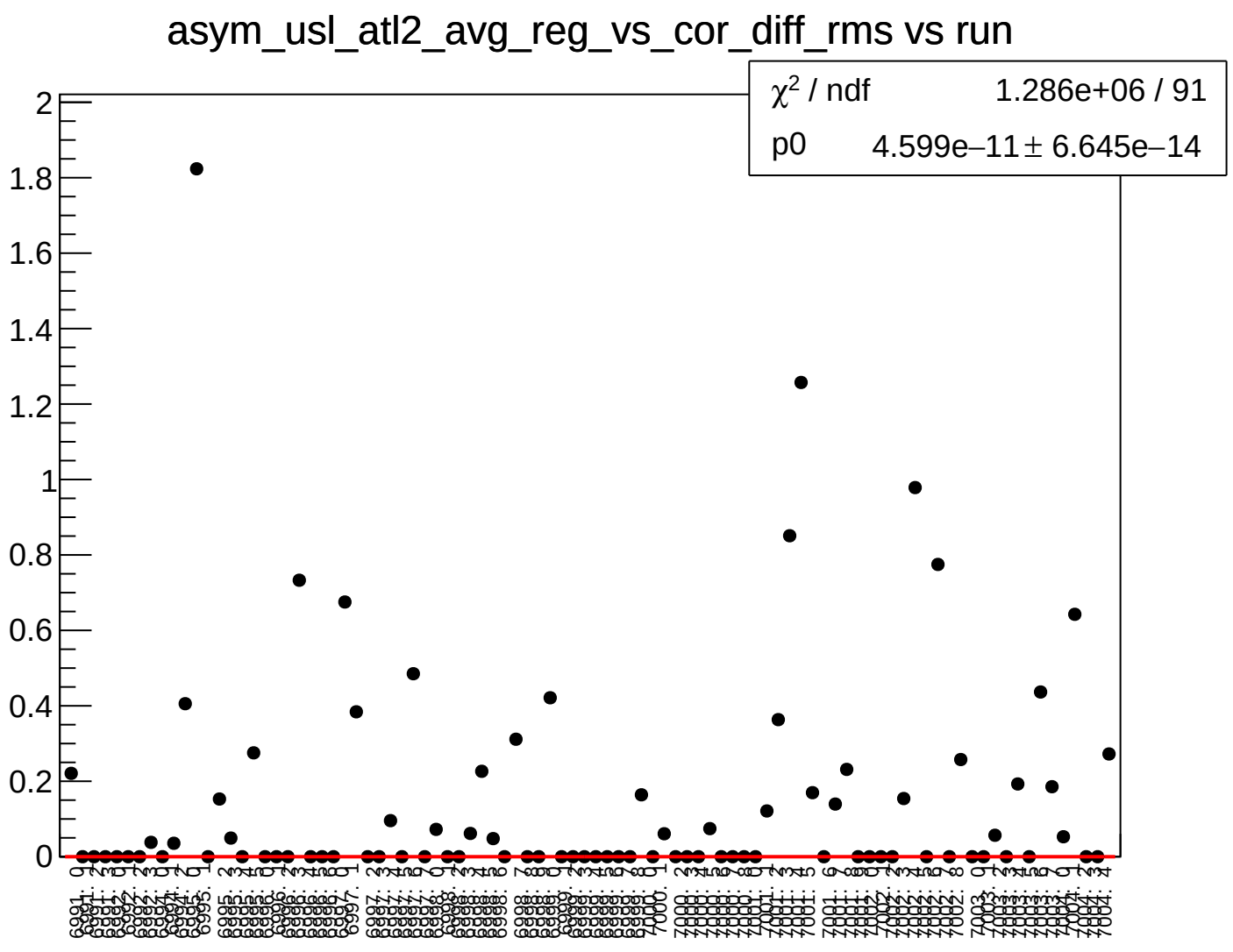

pull1D
Entries 92
Mean 0.0005938
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

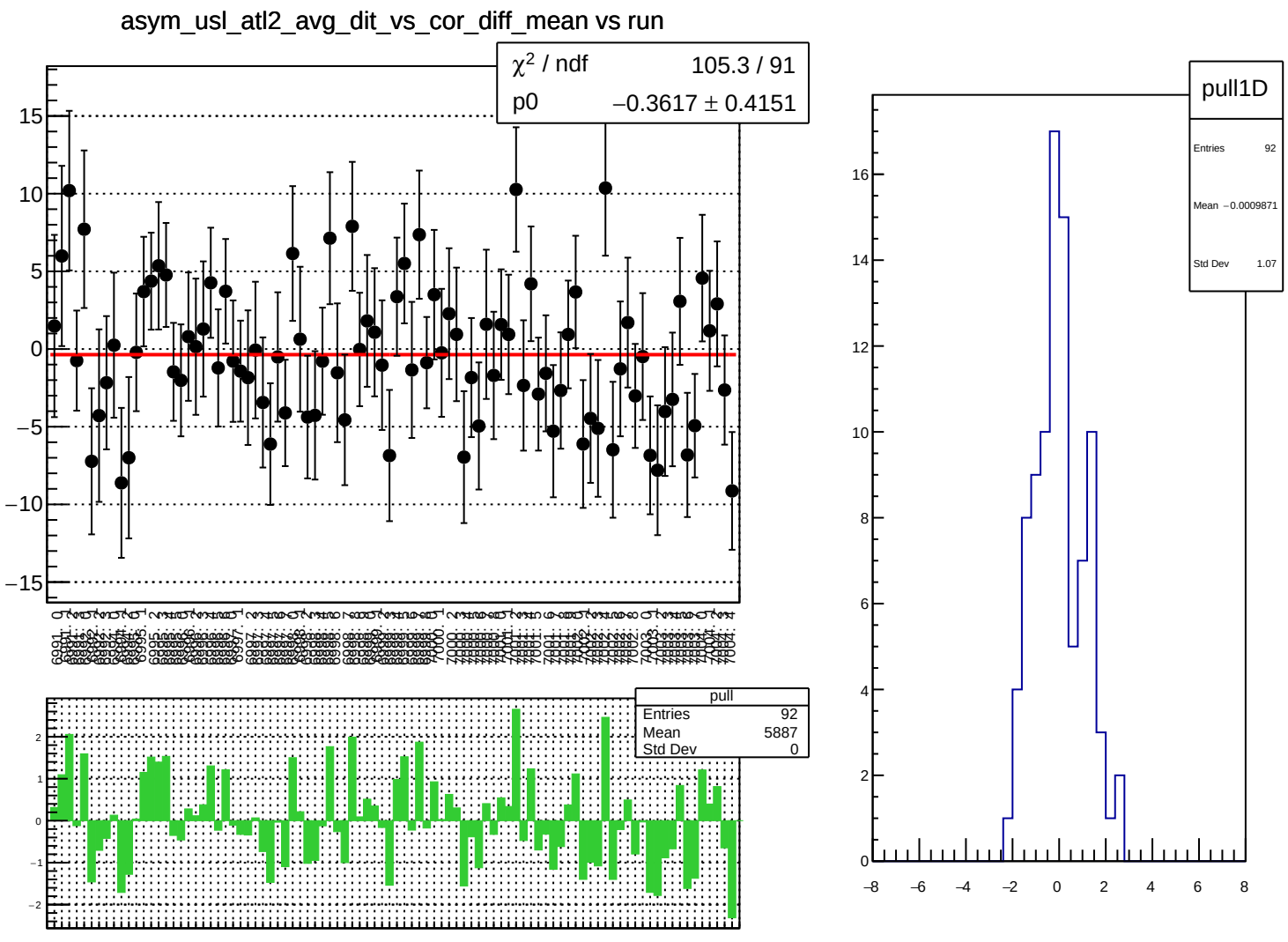

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3044 / 91
p0 5513 ± 4.153
6200
6000
5800
5600
5400
5200
5000

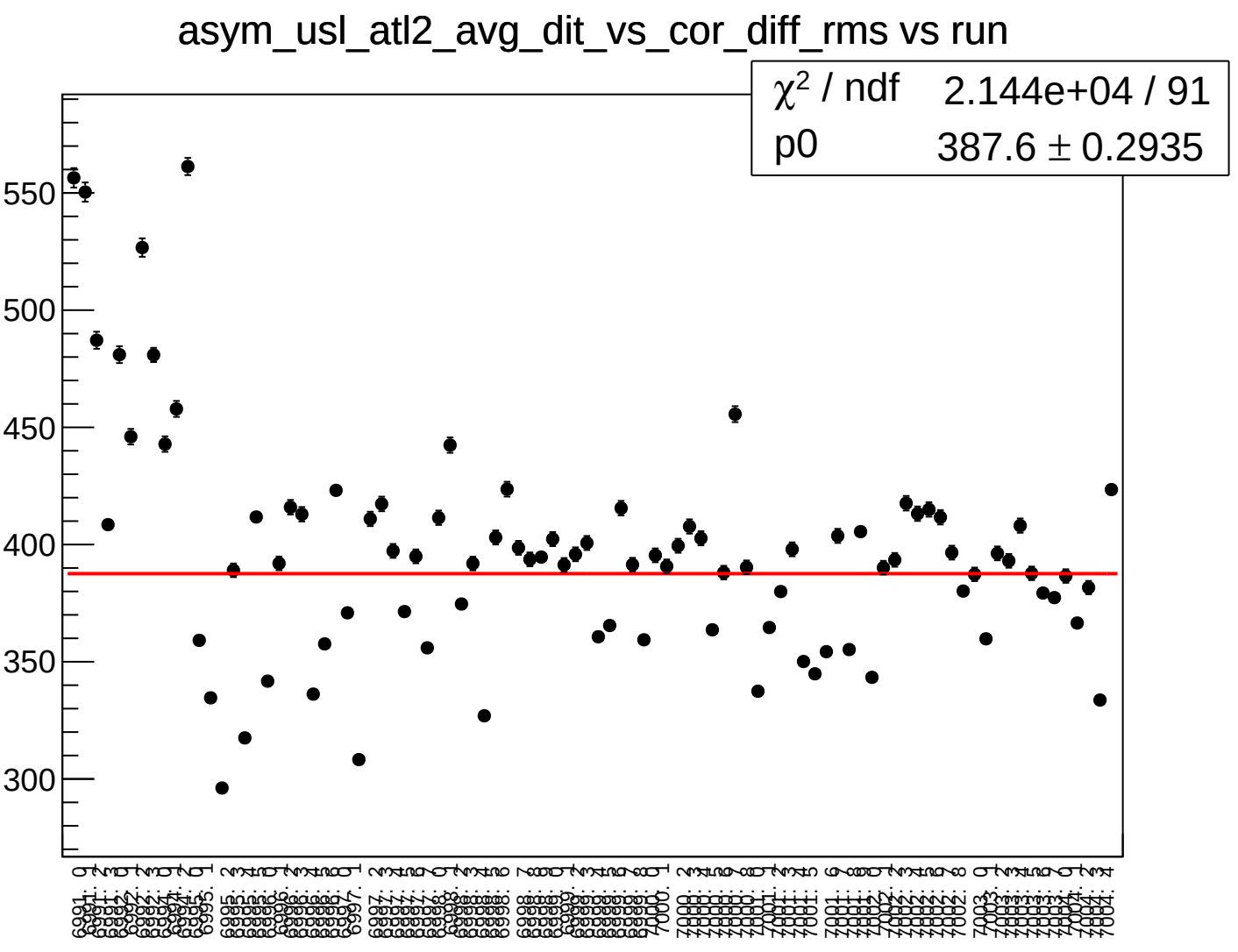

asym_usl_atl2_avg_mean vs run
χ² / ndf 108.2 / 91
p0 1385 ± 5787
pull
Entries 92
Mean −1083
Std Dev 0
pull1D
Entries 92
Mean −0.003684
Std Dev 1.085

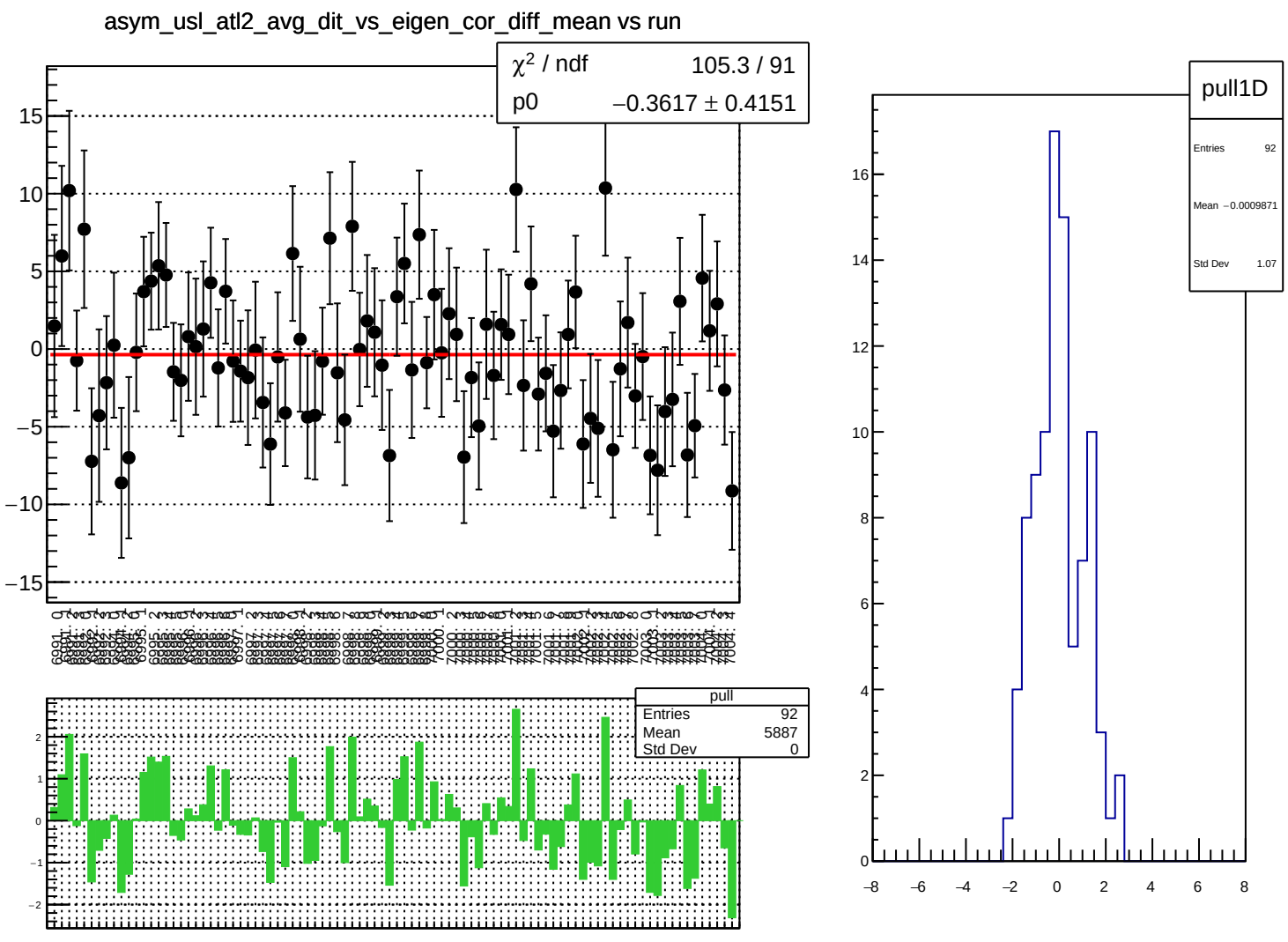

asym_usl_atl2_avg_rms vs run
χ² / ndf 2679 / 91
p0 5432 ± 4.092
6000
5800
5600
5400
5200
5000

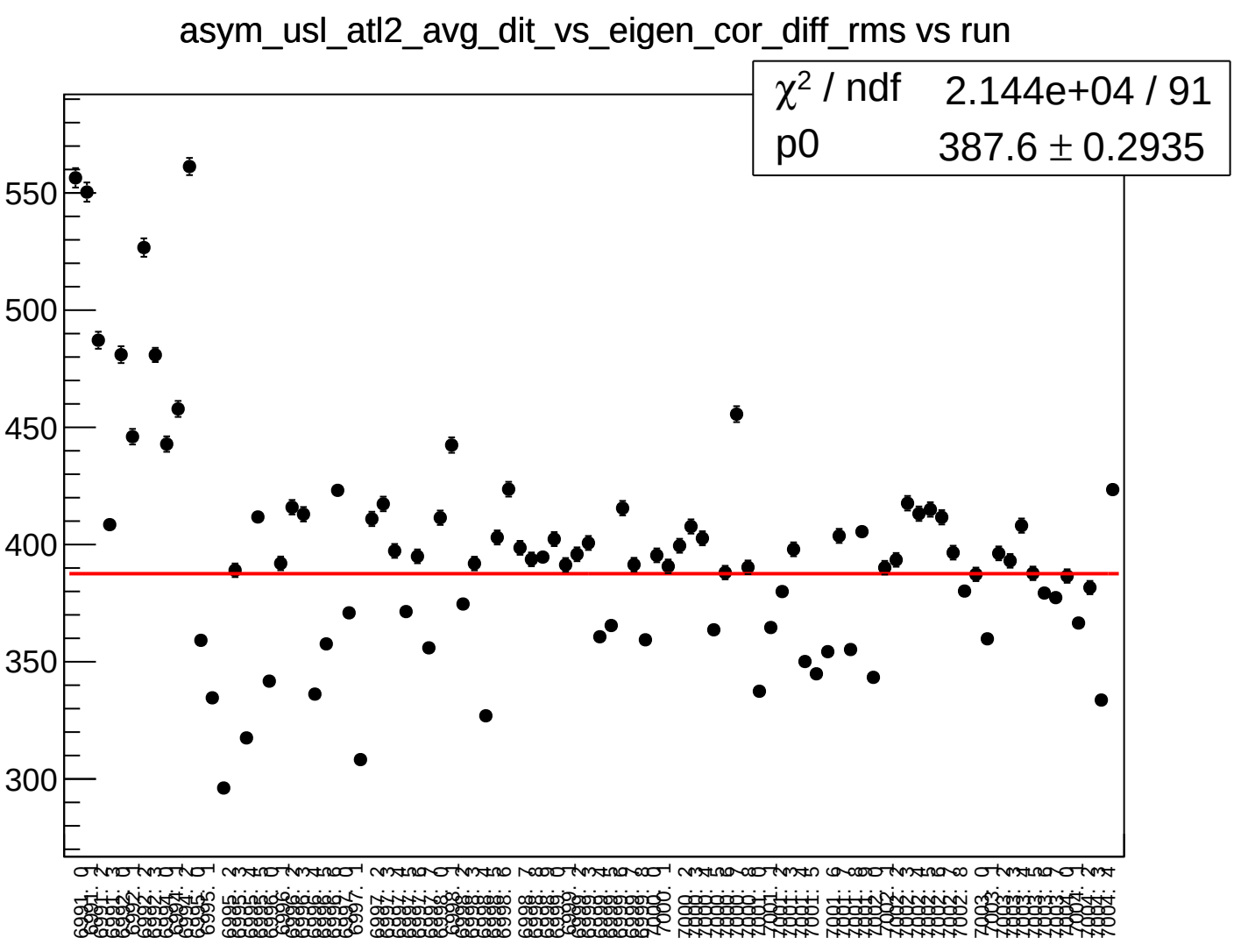

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 121.1 / 91
p0 8.248e−14 ± 9.397e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean −35.08
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.04737
Std Dev 1.146
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

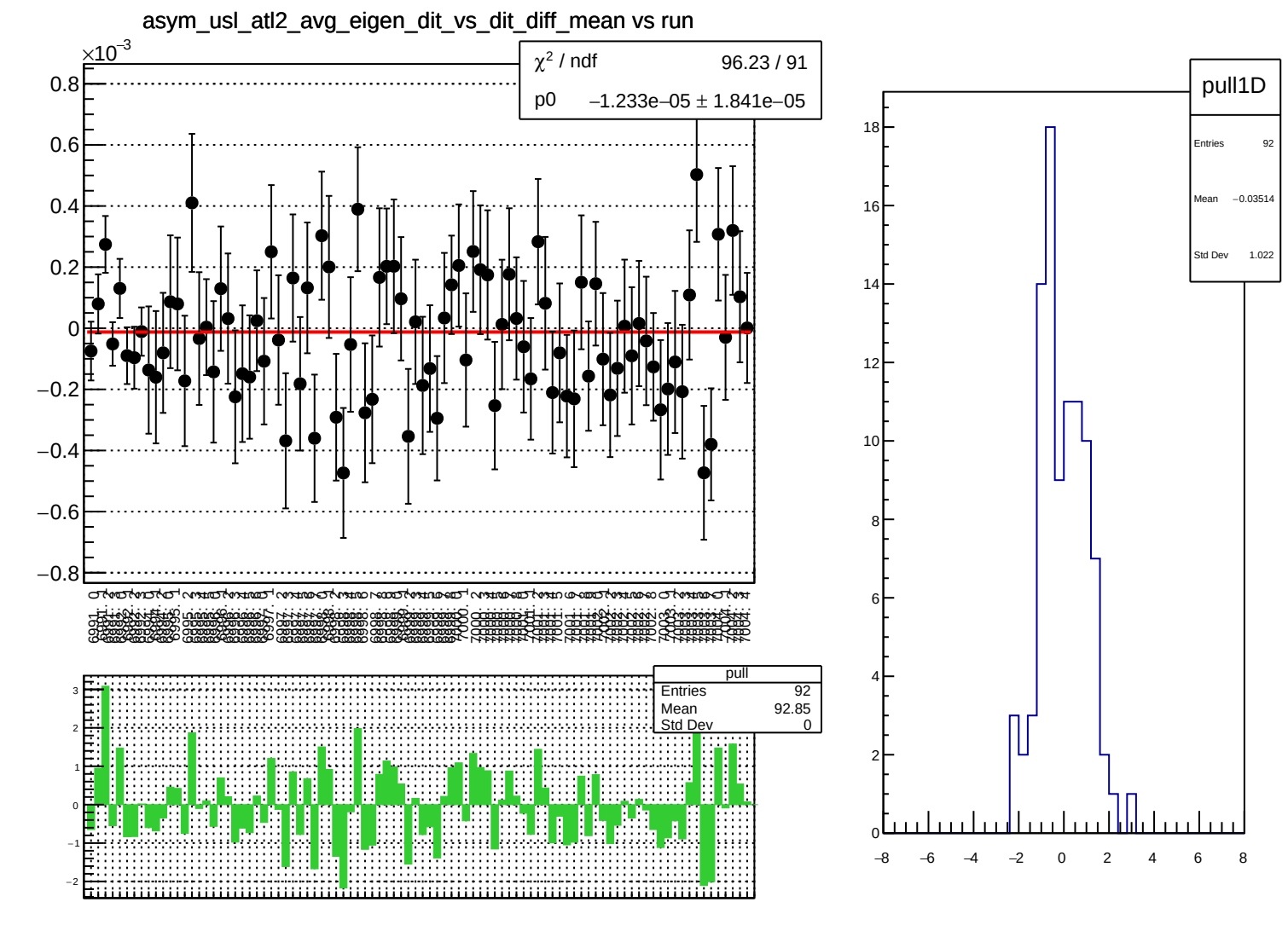

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.286e+06 / 91
p0 4.599e−11 ± 6.645e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

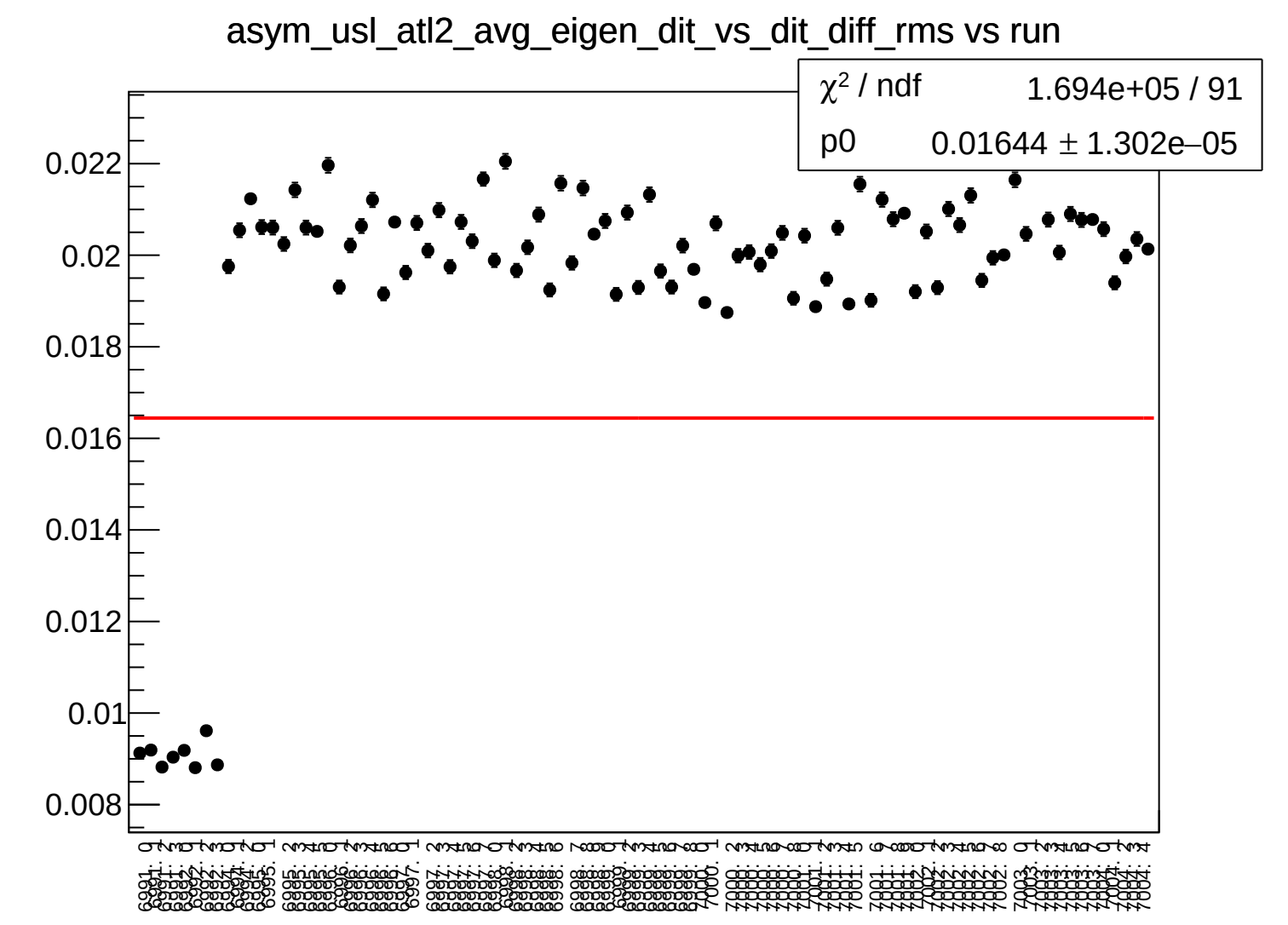

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 91
p0 −0.3617 ± 0.4151
pull
Entries 92
Mean 5887
Std Dev 0
pull1D
Entries 92
Mean −0.0009871
Std Dev 1.07

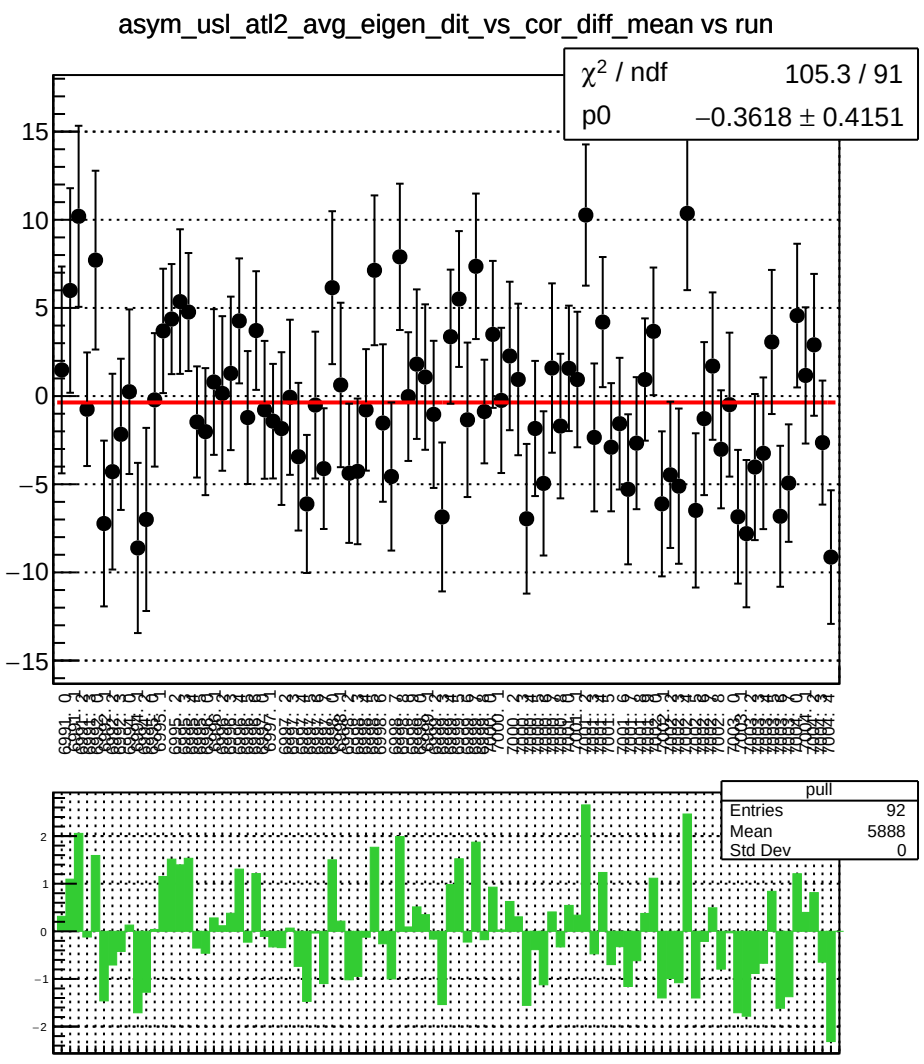

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.144e+04 / 91
p0 387.6 ± 0.2935
550
500
450
400
350
300

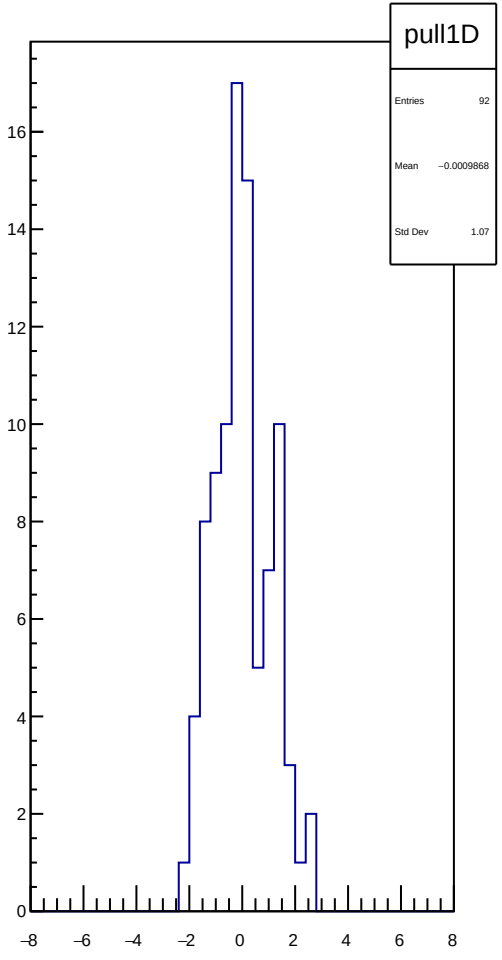

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.3 / 91
p0 −0.3617 ± 0.4151
pull
Entries 92
Mean 5887
Std Dev 0
pull1D
Entries 92
Mean −0.0009871
Std Dev 1.07

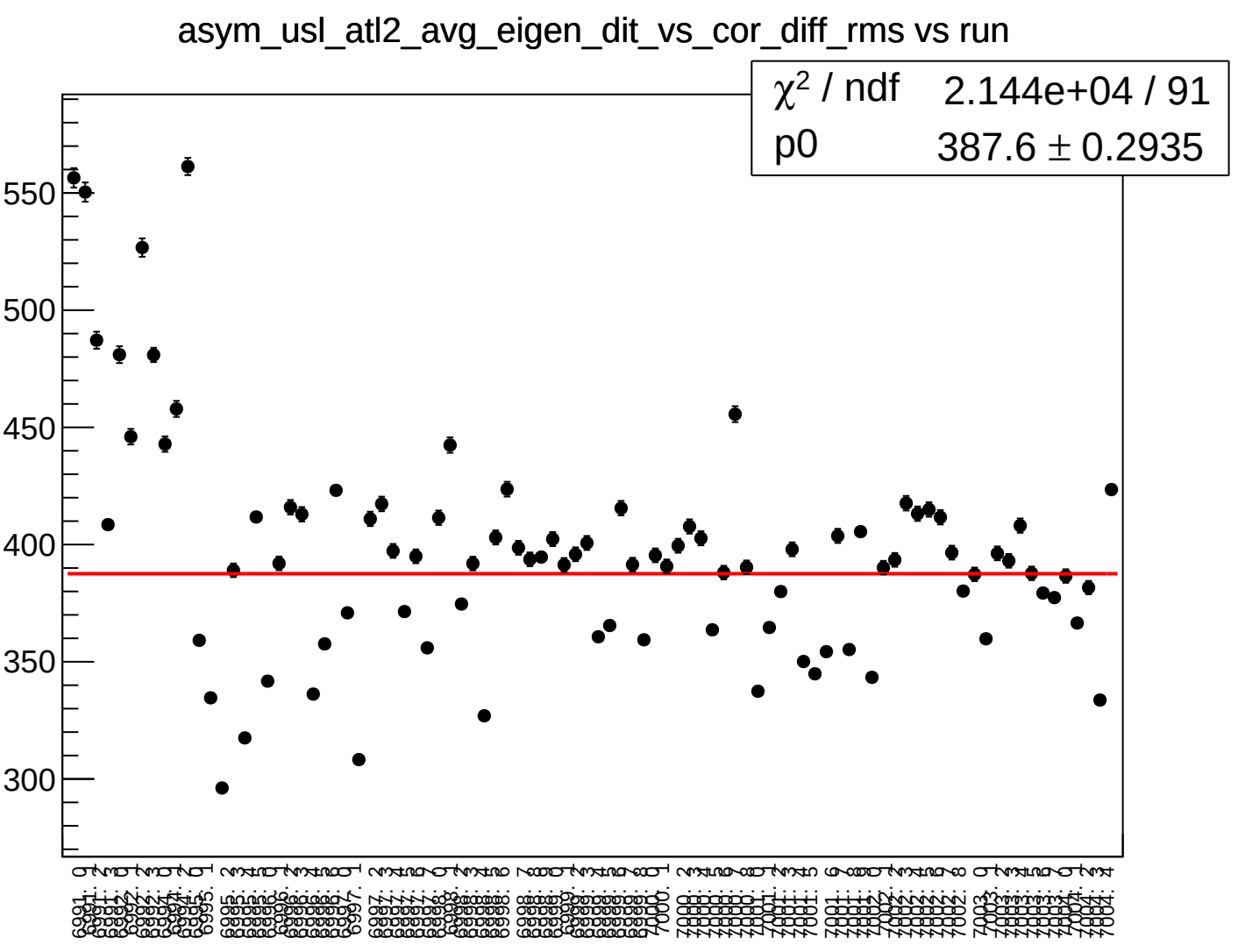

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.144e+04 / 91
p0 387.6 ± 0.2935
550
500
450
400
350
300

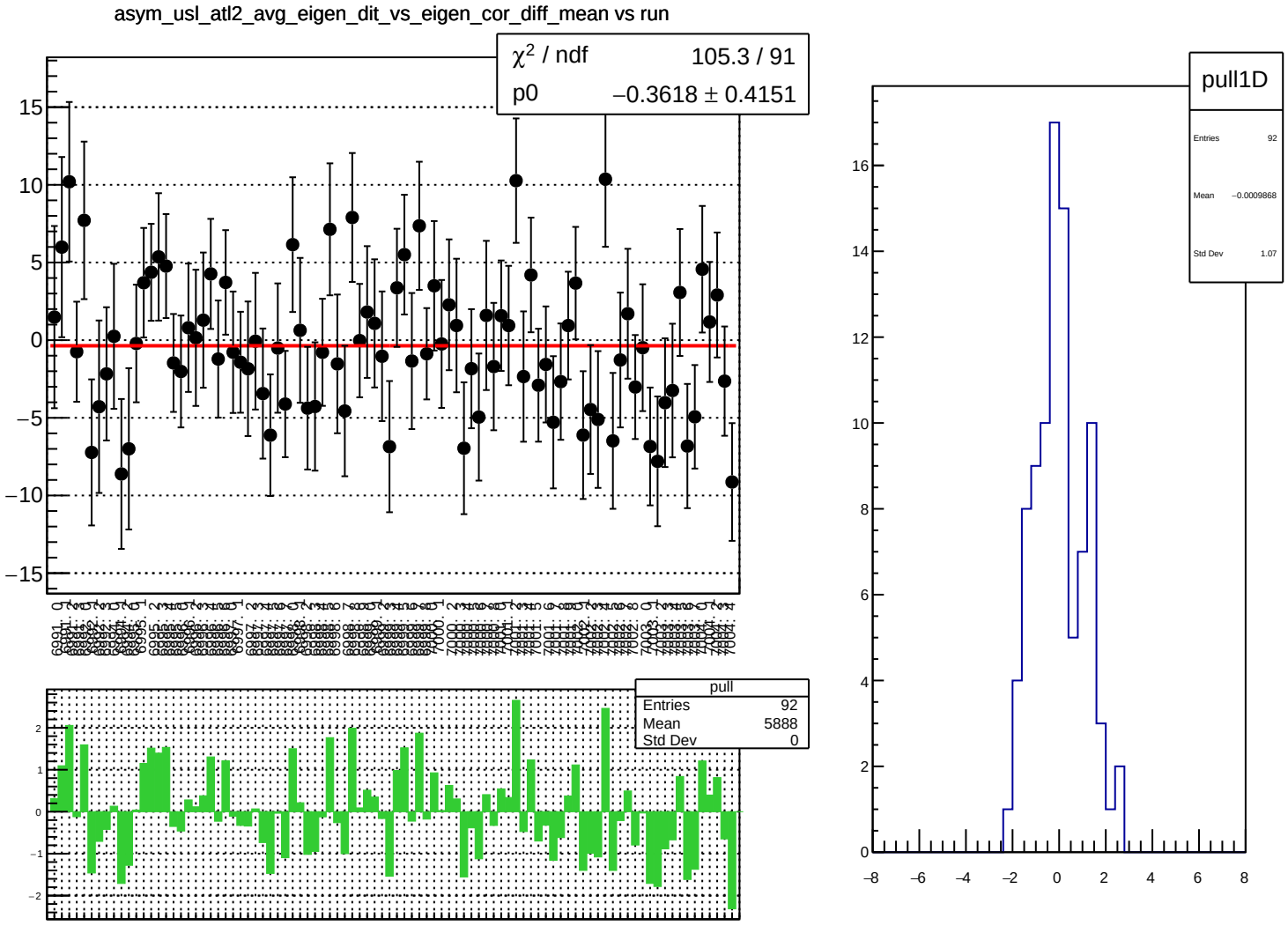

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.23 / 91
p0 −1.233e−05 ± 1.841e−05
pull
Entries 92
Mean 92.85
Std Dev 0
pull1D
Entries 92
Mean −0.03514
Std Dev 1.022

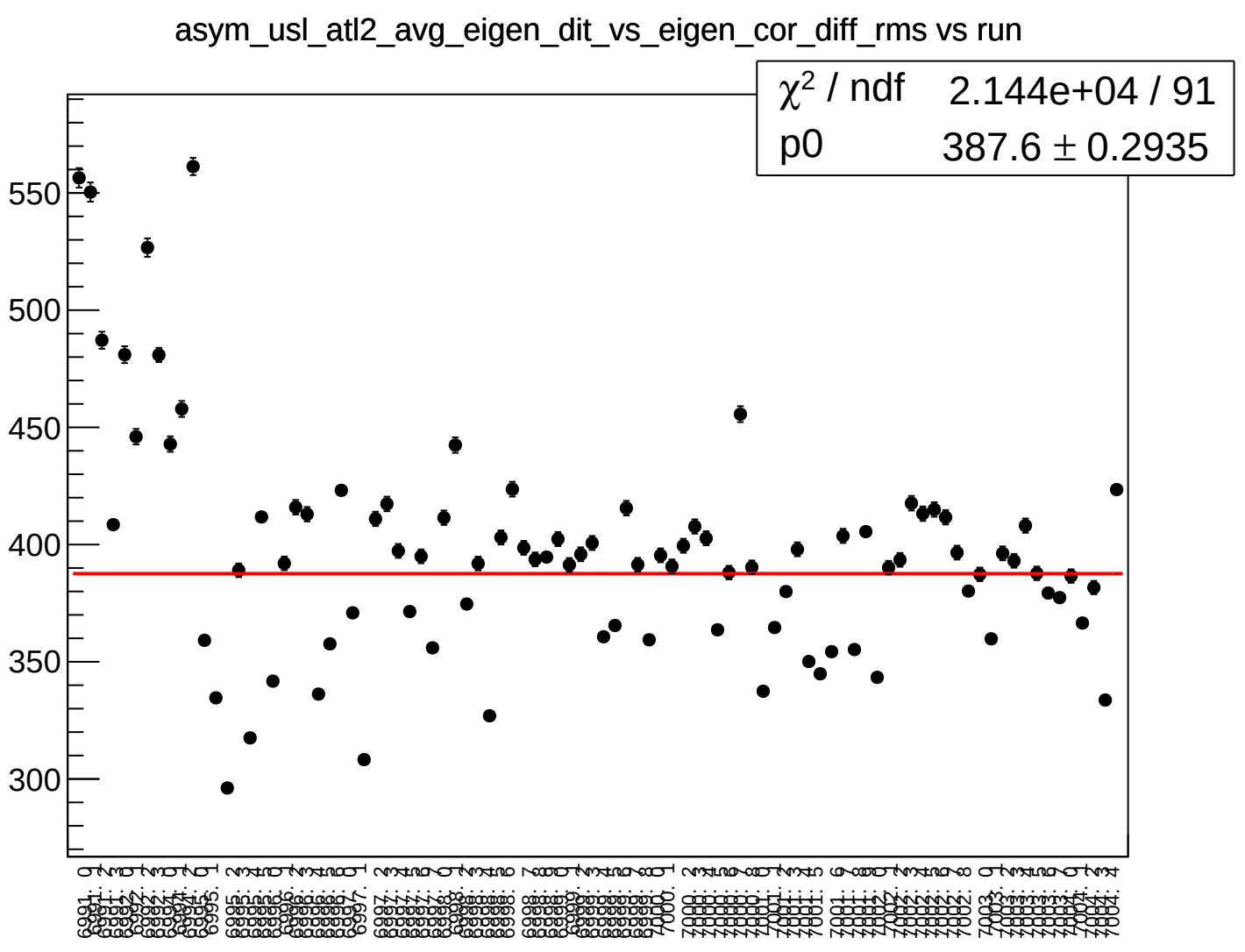

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.694e+05 / 91
p0 0.01644 ± 1.302e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

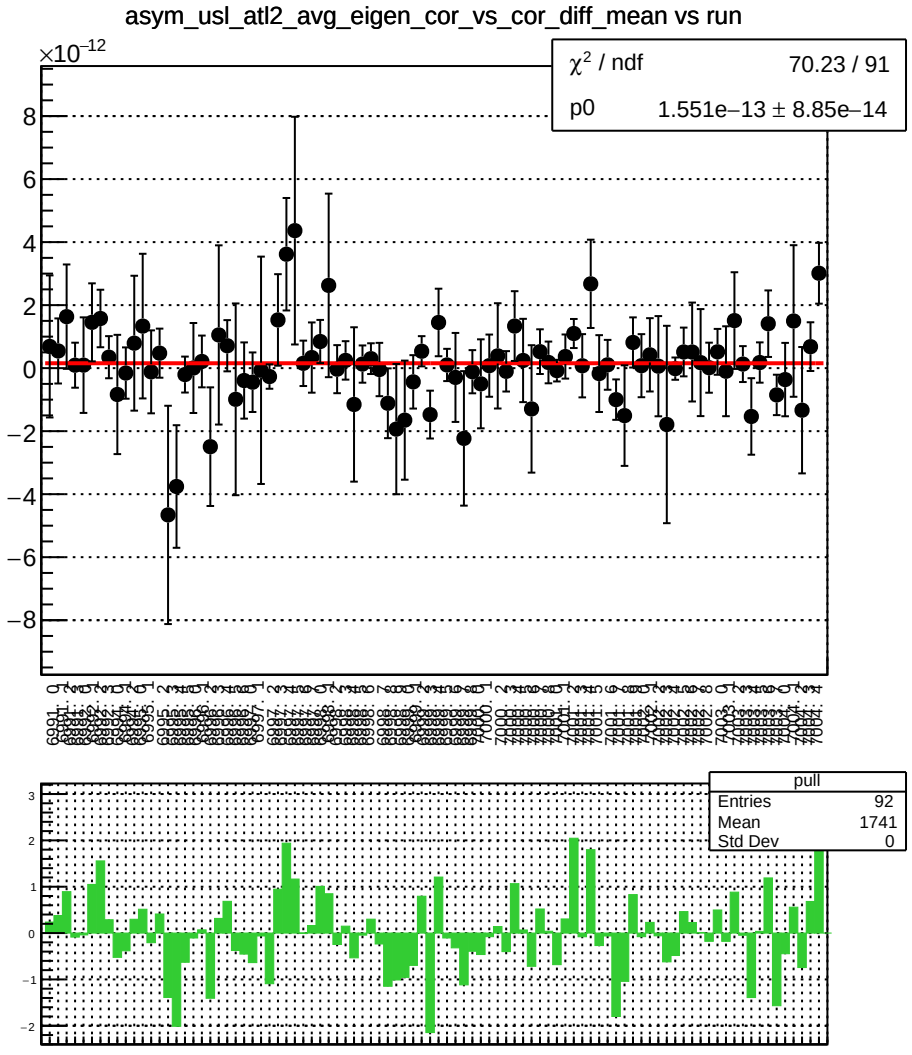

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 91
p0 −0.3618 ± 0.4151
pull
Entries 92
Mean 5888
Std Dev 0

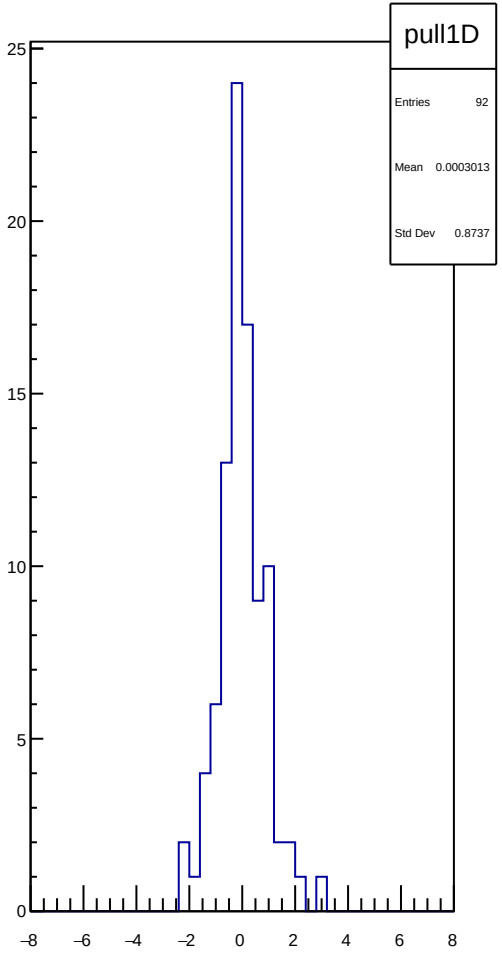

pull1D
Entries 92
Mean −0.0009868
Std Dev 1.07

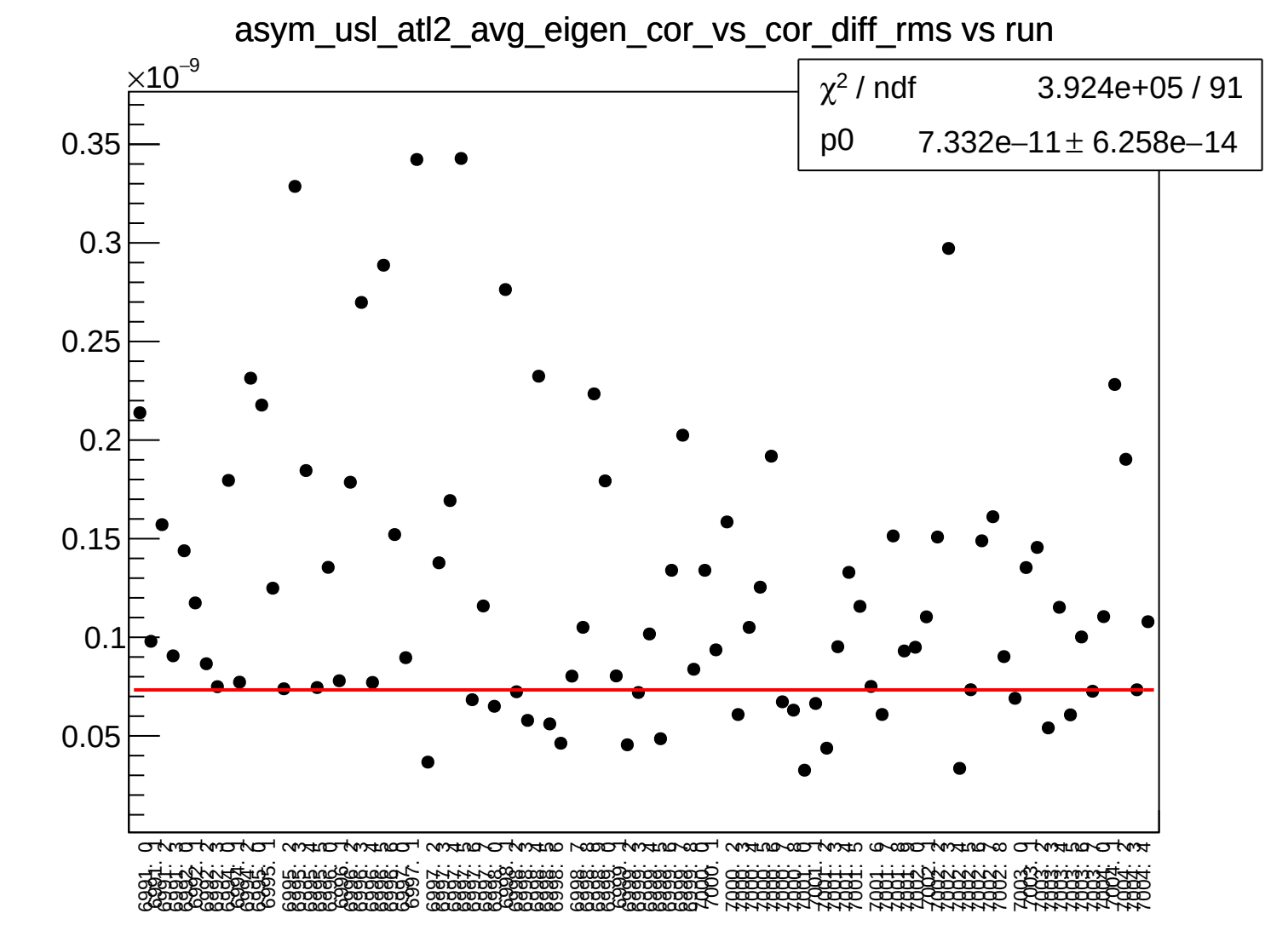

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.144e+04 / 91
p0 387.6 ± 0.2935
550
500
450
400
350
300

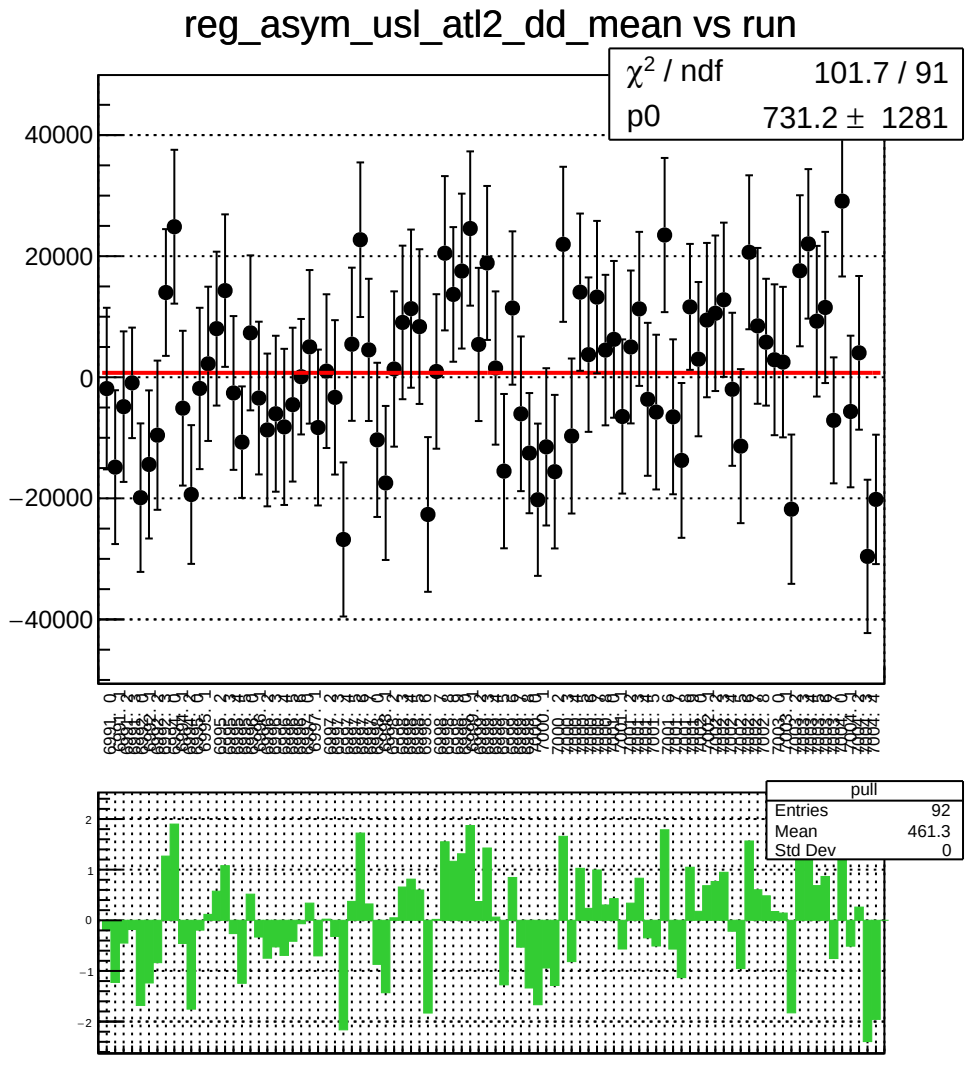

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.3 / 91
p0 −0.3618 ± 0.4151
pull
Entries 92
Mean 5888
Std Dev 0
pull1D
Entries 92
Mean −0.0009868
Std Dev 1.07

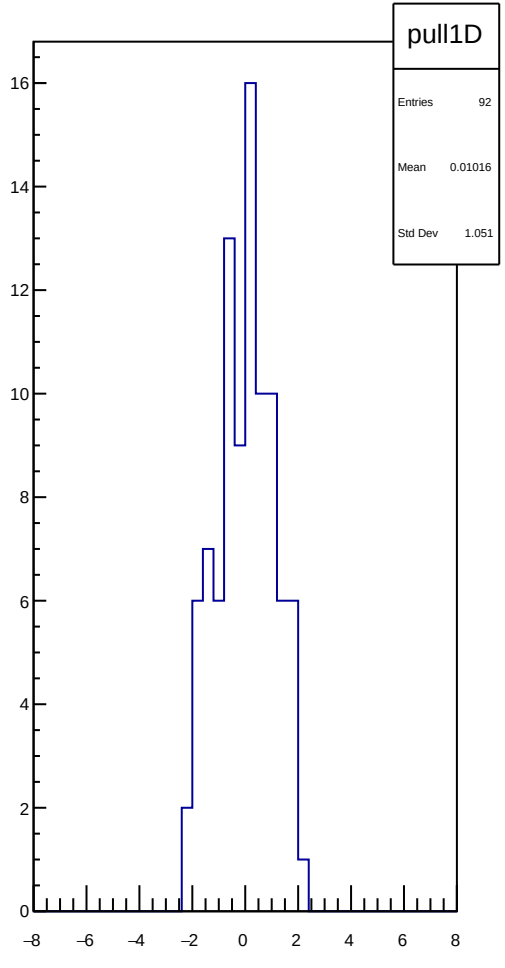

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.144e+04 / 91
p0 387.6 ± 0.2935
550
500
450
400
350
300

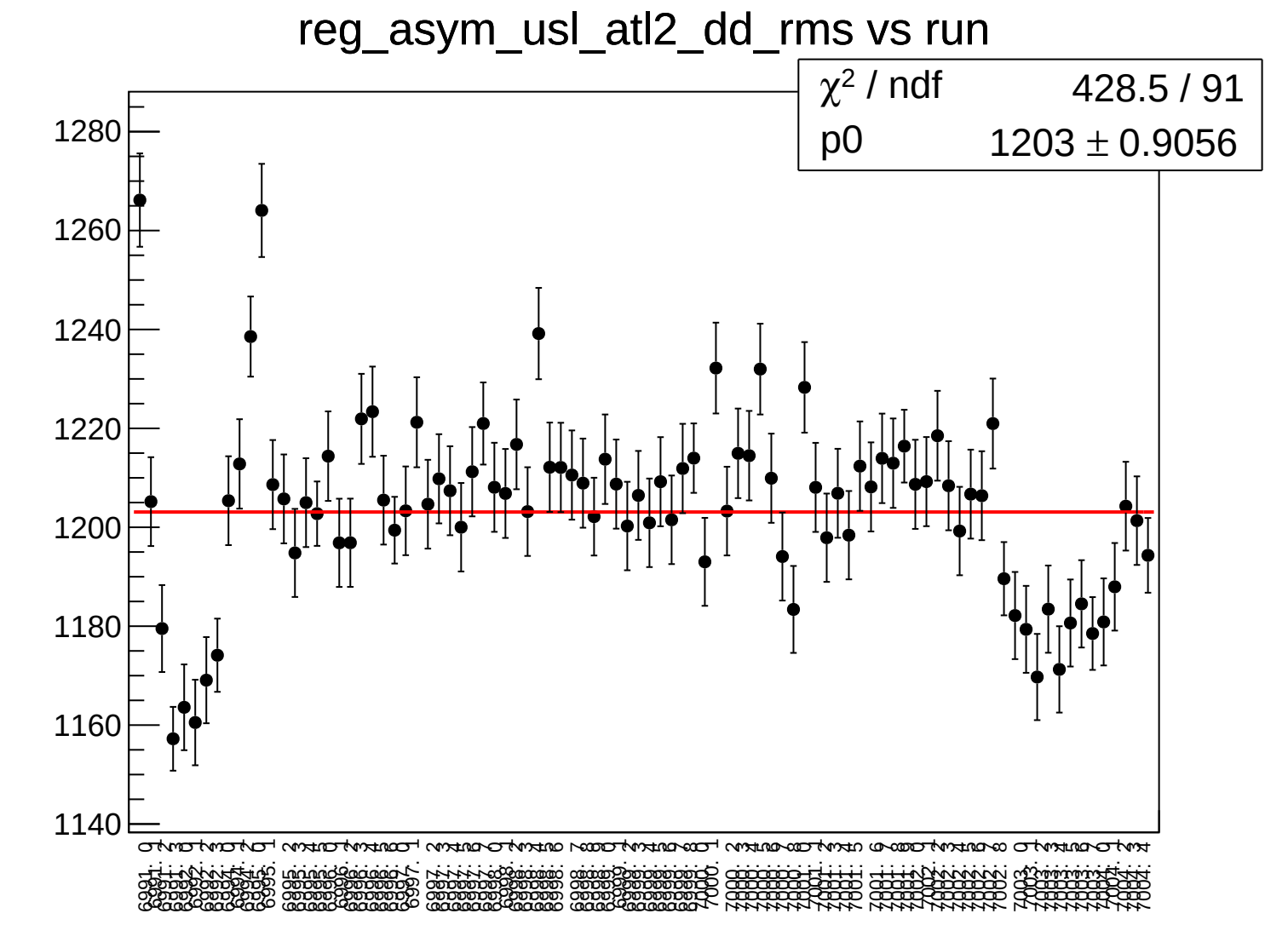

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.23 / 91
p0 1.551e−13 ± 8.85e−14
pull
Entries 92
Mean 1741
Std Dev 0

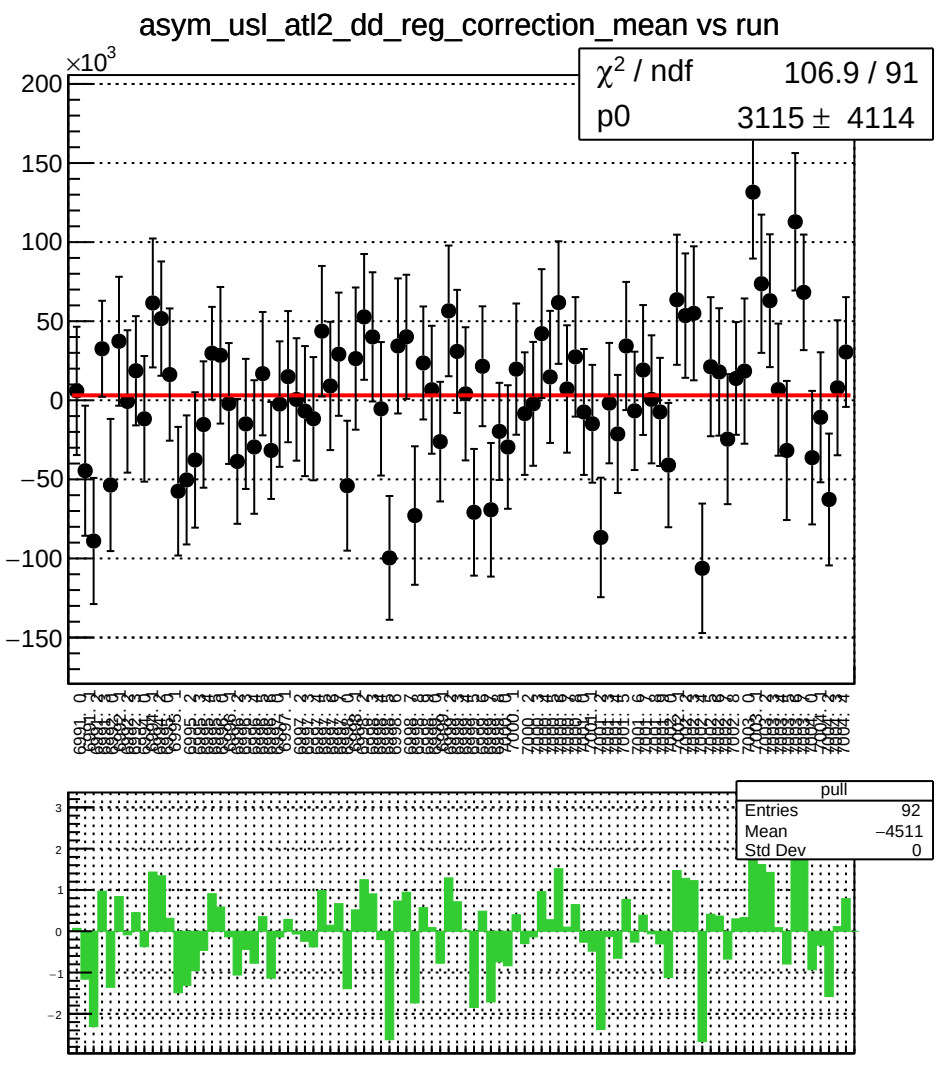

pull1D
Entries 92
Mean 0.0003013
Std Dev 0.8737

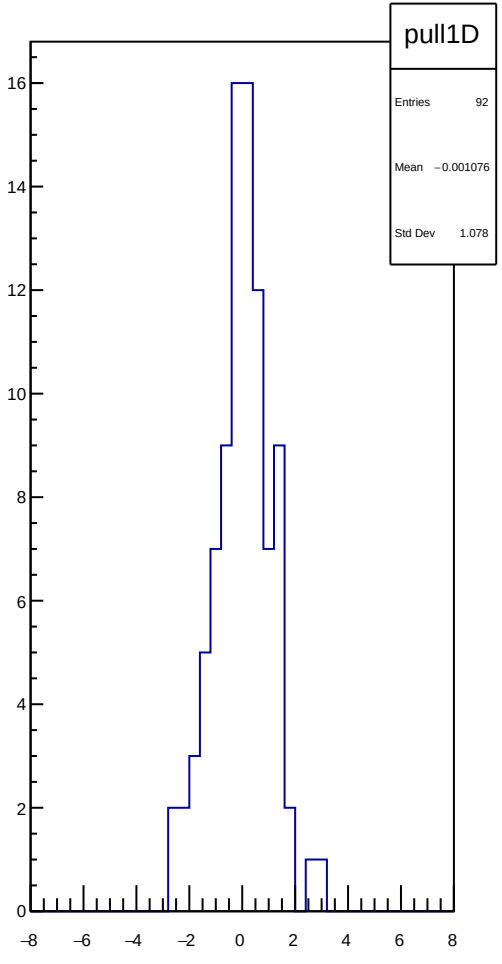

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.924e+05 / 91
p0 7.332e−11 ± 6.258e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

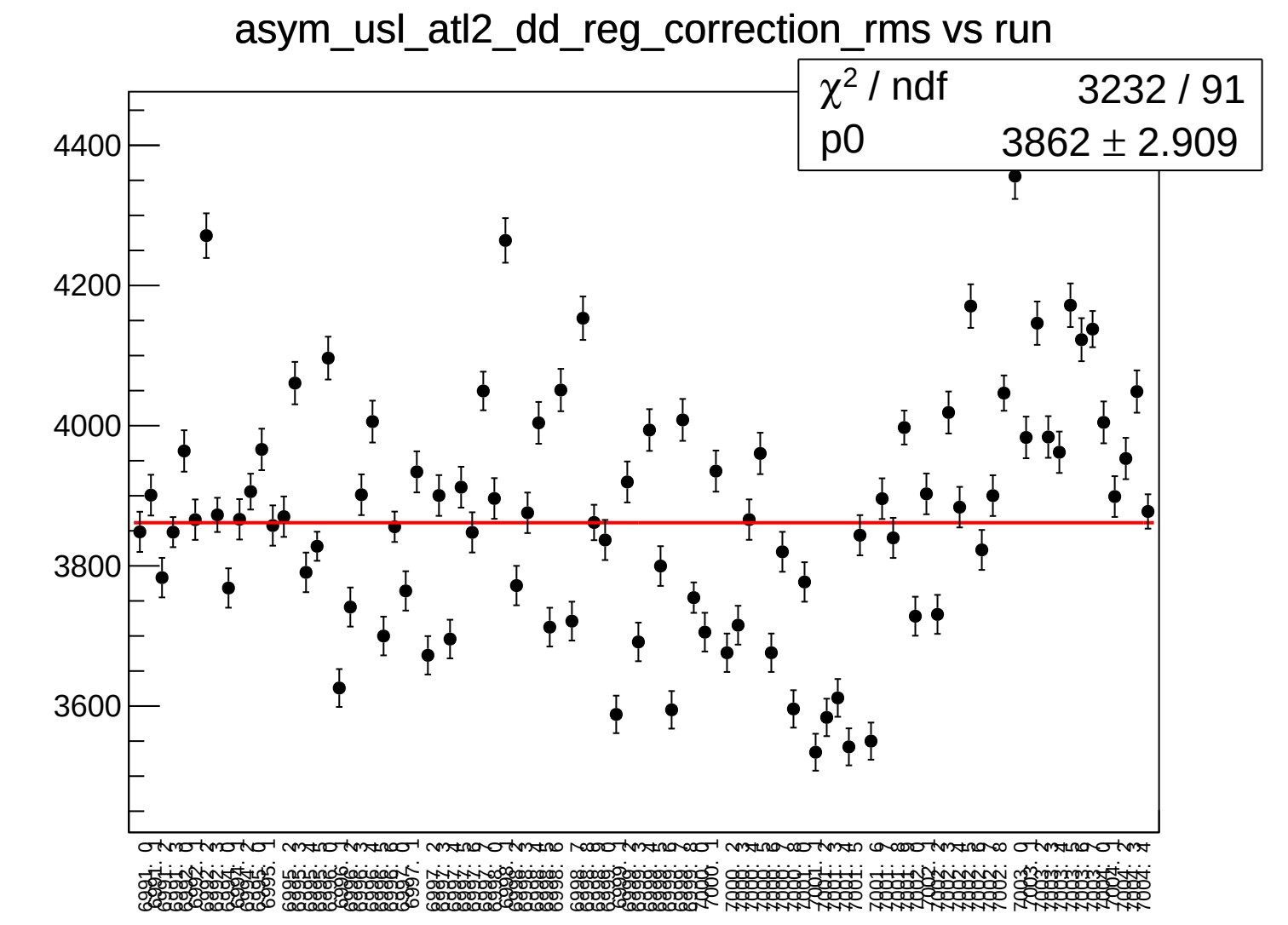

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 101.7 / 91
p0 731.2 ± 1281
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 461.3
Std Dev 0
2
1
0
−1
−2

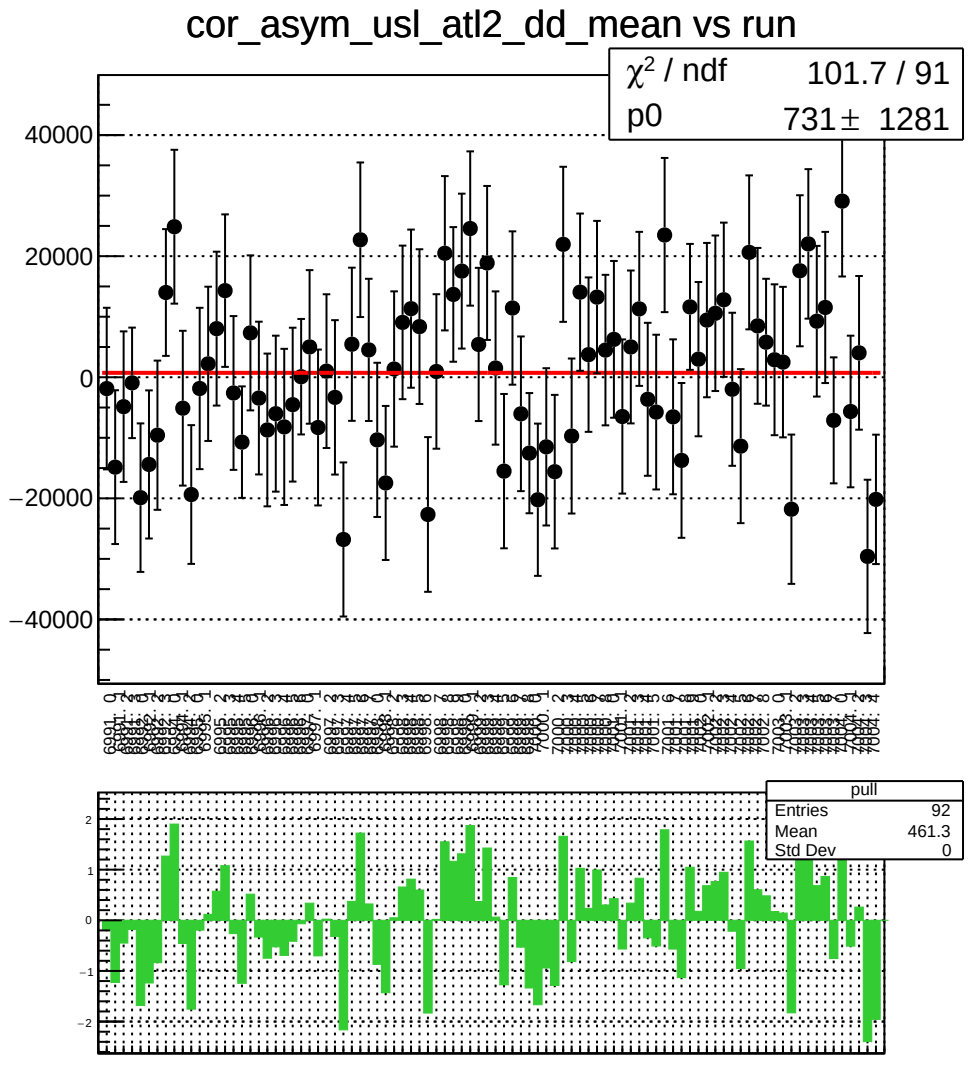

pull1D
Entries 92
Mean 0.01016
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

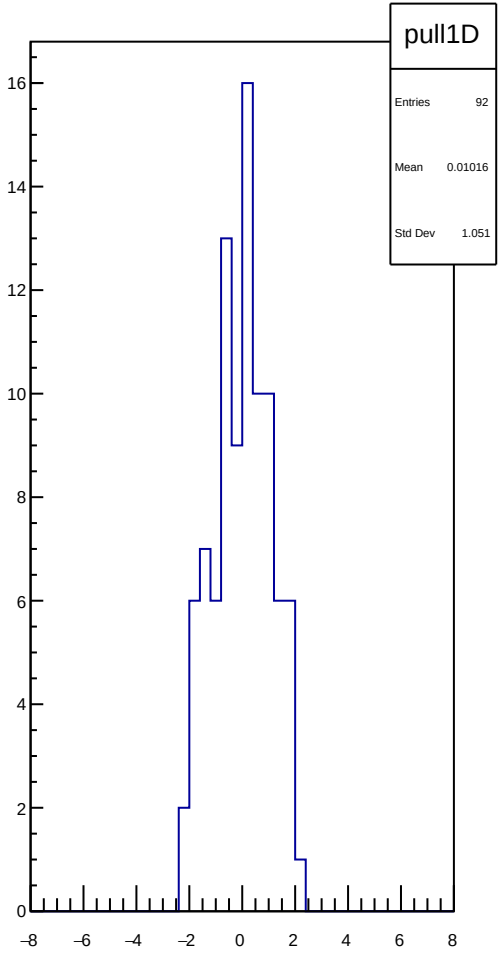

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 428.5 / 91
p0 1203 ± 0.9056
1280
1260
1240
1220
1200
1180
1160
1140

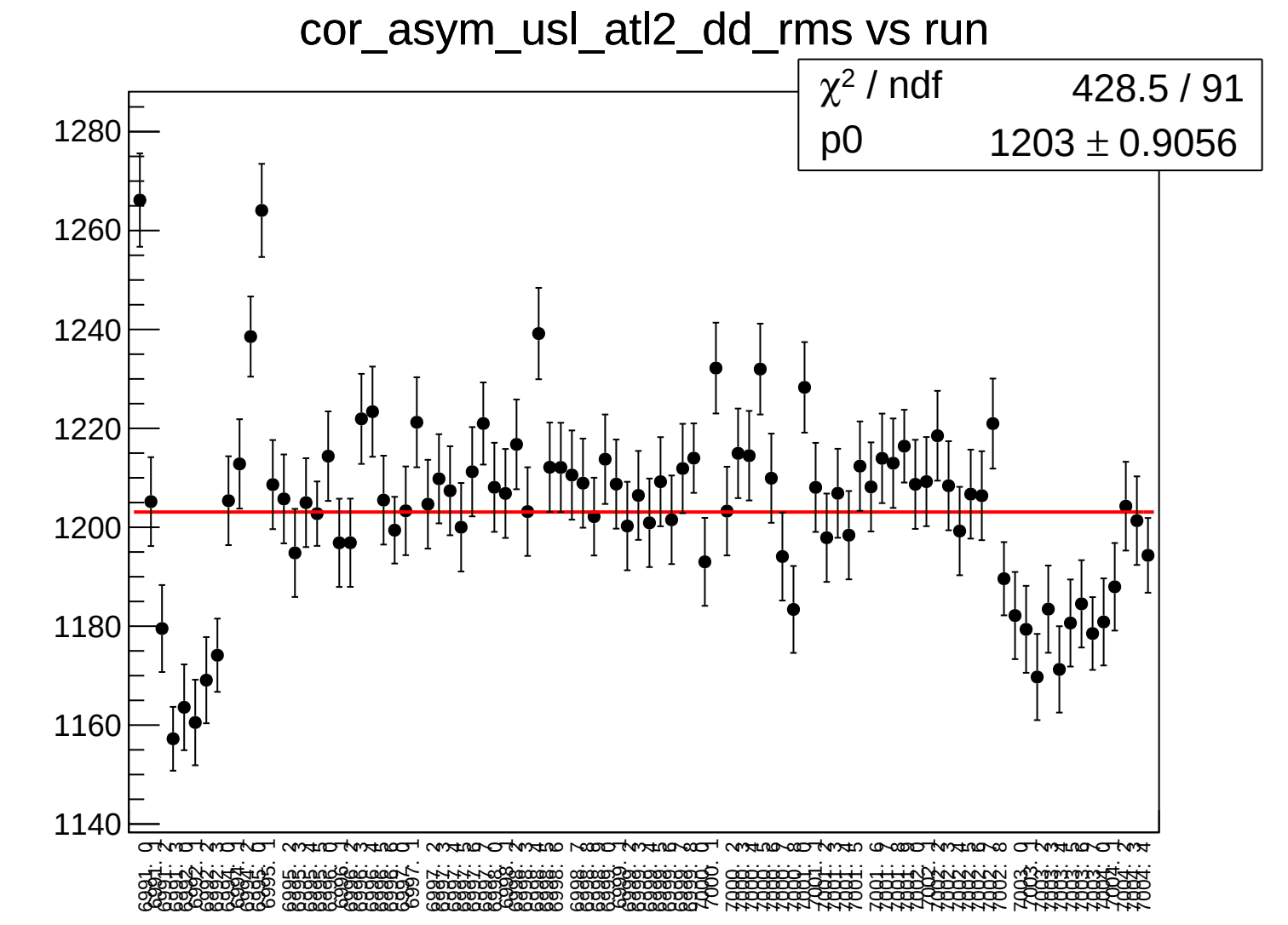

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106.9 / 91
p0 3115 ± 4114
pull
Entries 92
Mean −4511
Std Dev 0

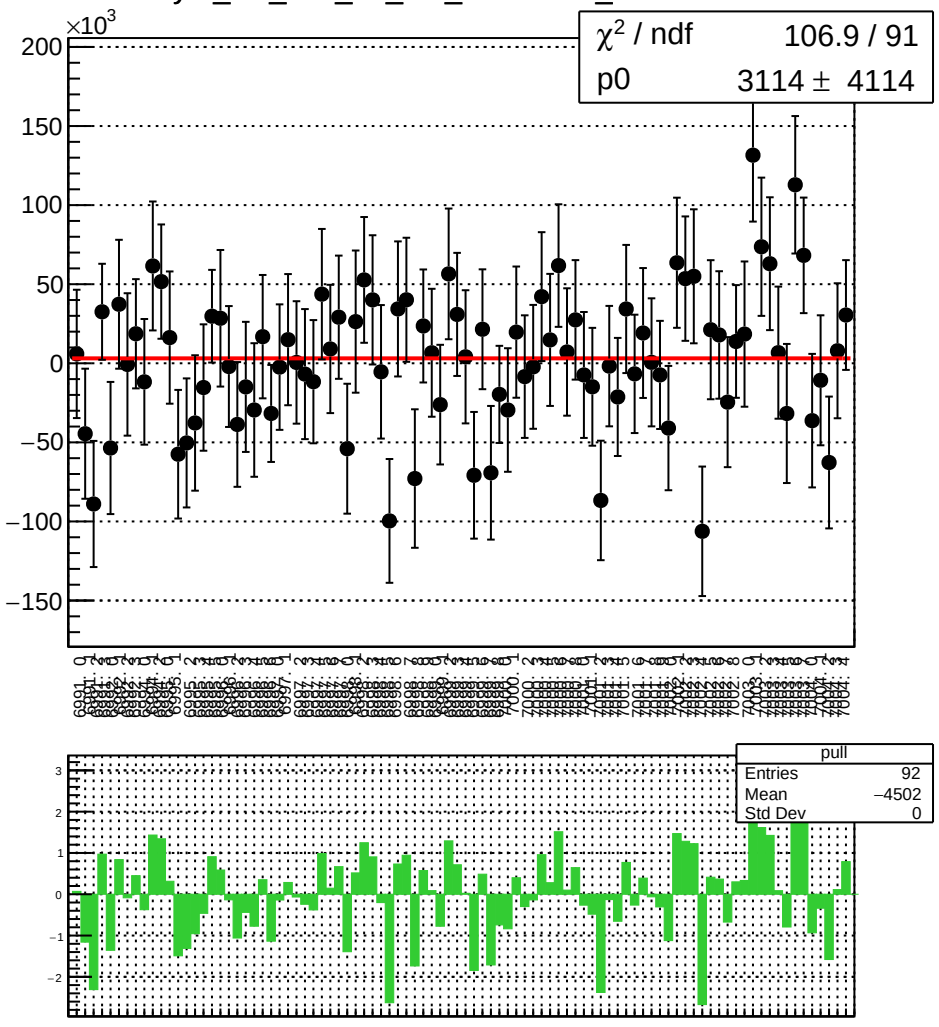

pull1D
Entries 92
Mean −0.001076
Std Dev 1.078

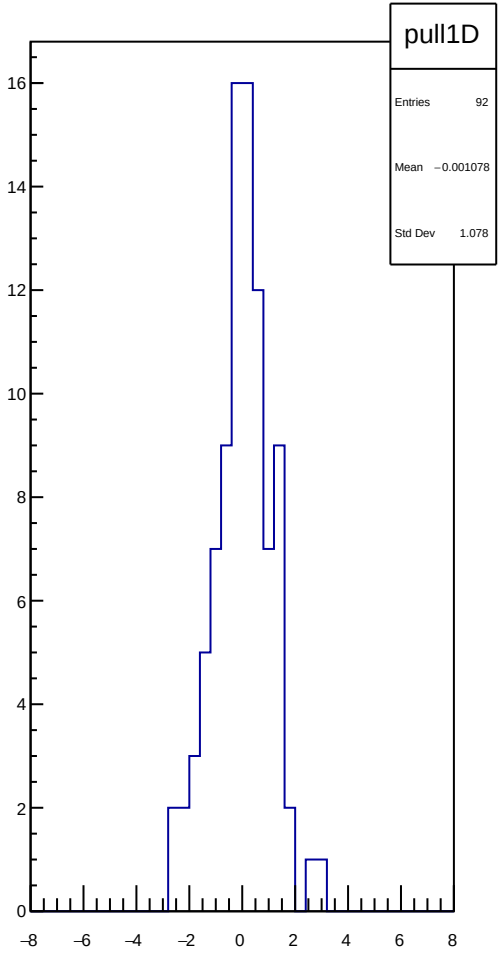

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 3232 / 91
p0 3862 ± 2.909
4400
4200
4000
3800
3600

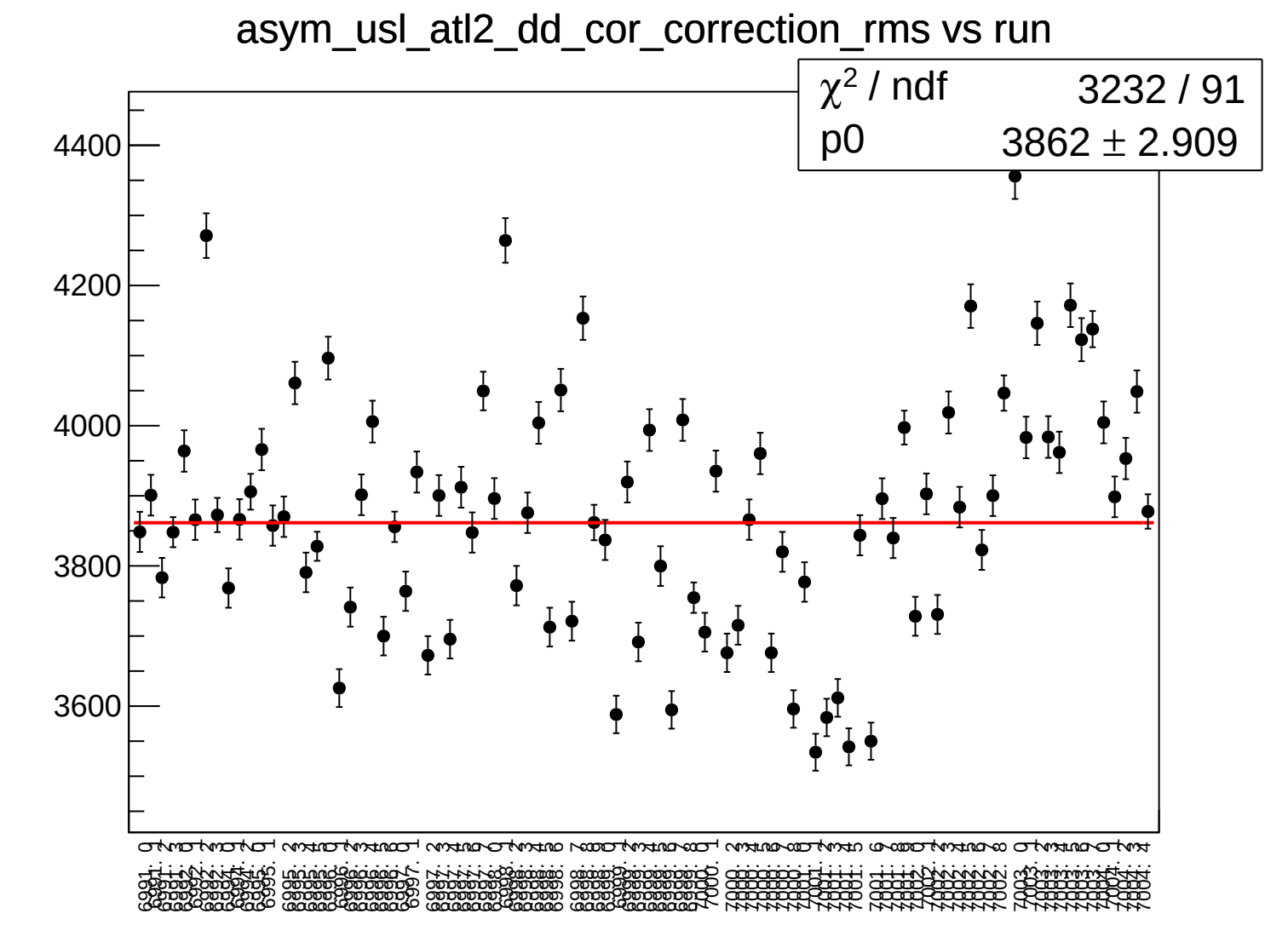

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 101.7 / 91
p0 731 ± 1281
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 461.3
Std Dev 0
2
1
0
−1
−2

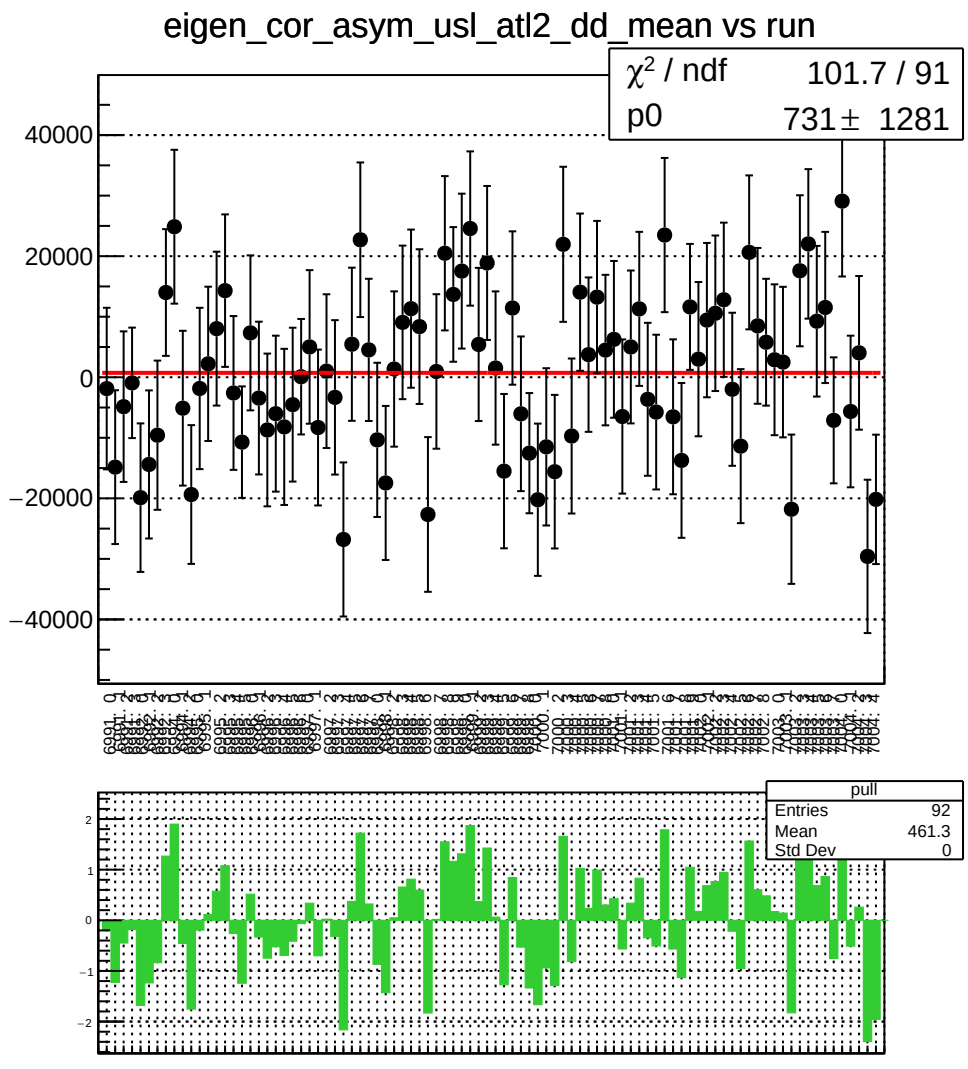

pull1D
Entries 92
Mean 0.01016
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

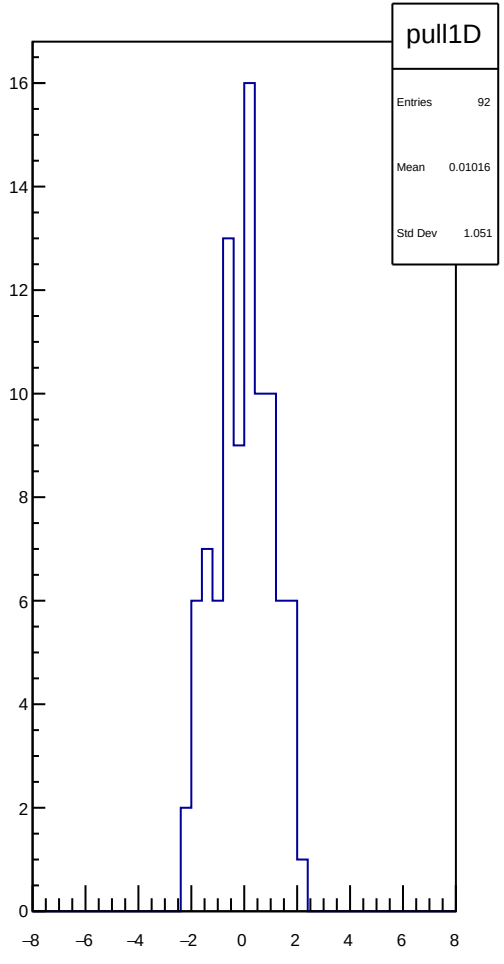

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 428.5 / 91
p0 1203 ± 0.9056
1280
1260
1240
1220
1200
1180
1160
1140

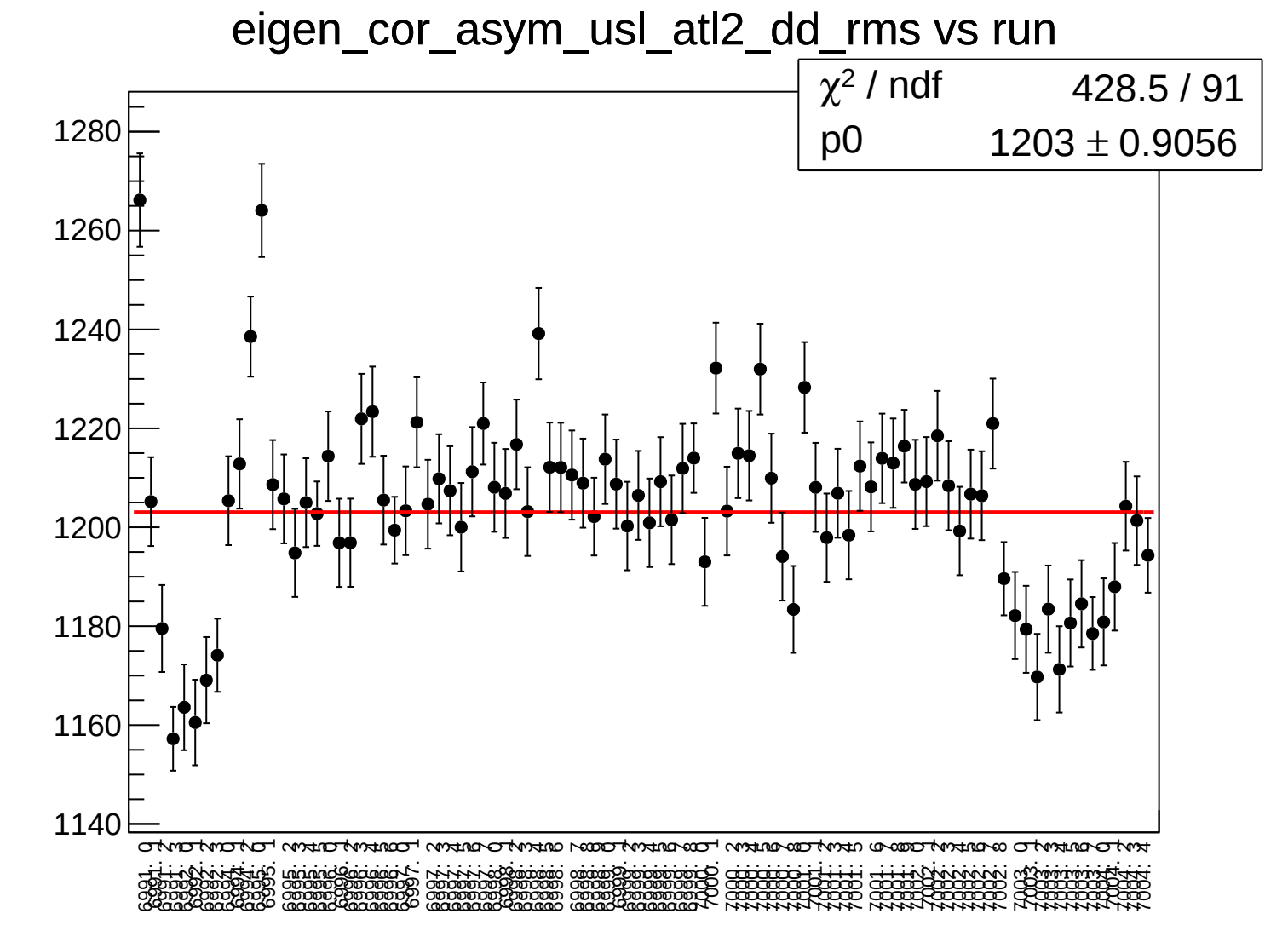

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 106.9 / 91
p0 3114 ± 4114
pull
Entries 92
Mean −4502
Std Dev 0

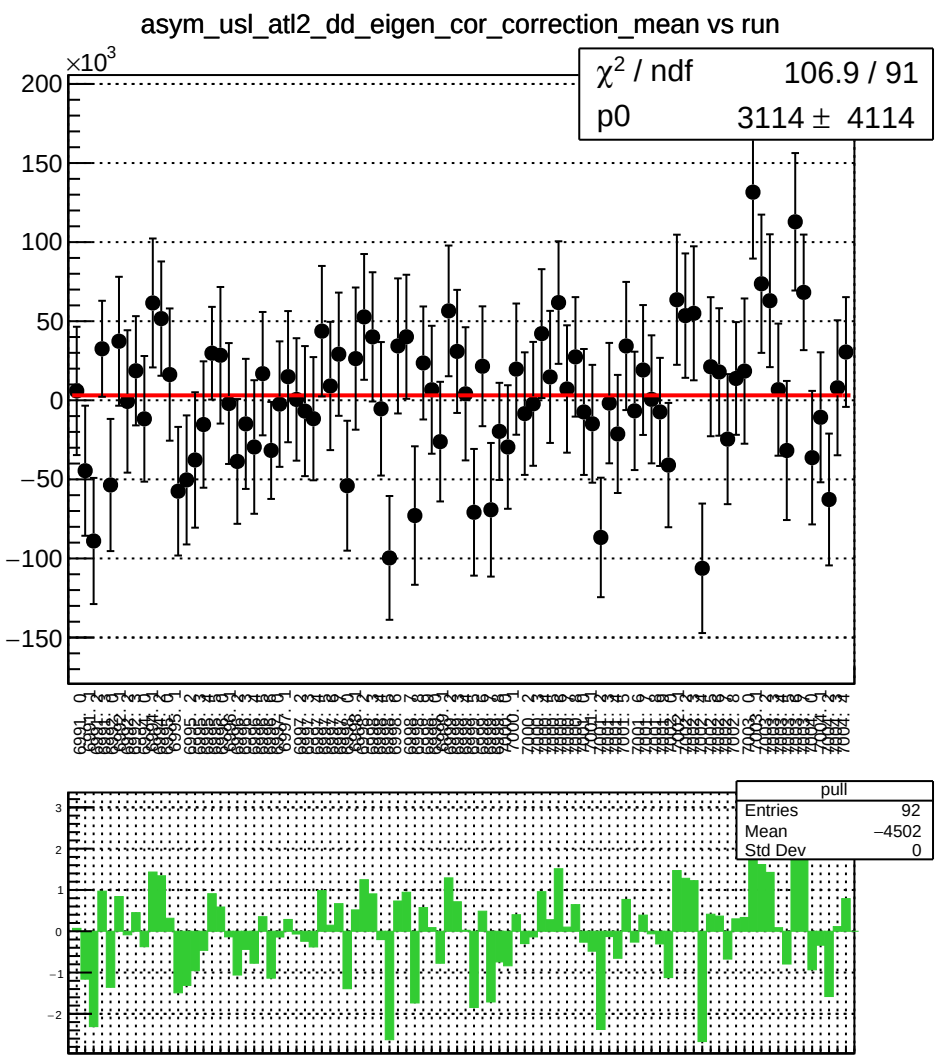

pull1D
Entries 92
Mean −0.001078
Std Dev 1.078

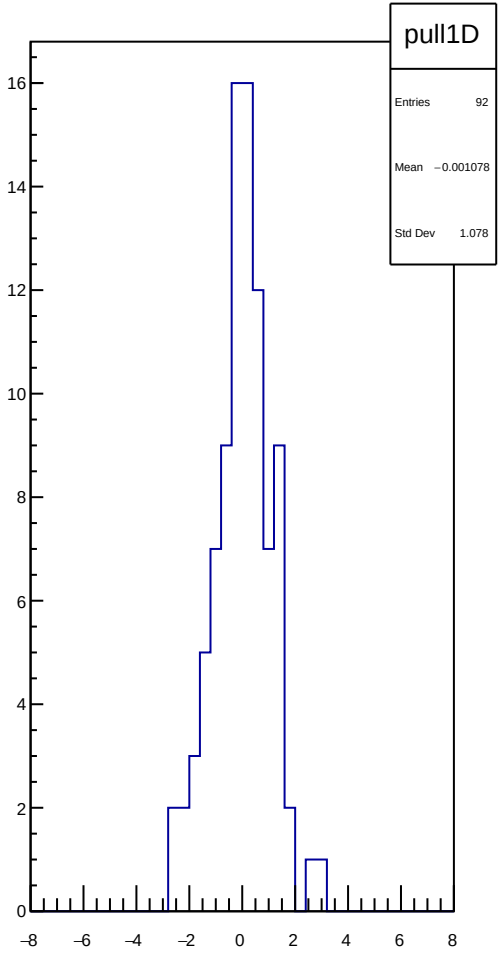

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 3232 / 91
p0 3862 ± 2.909
4400
4200
4000
3800
3600

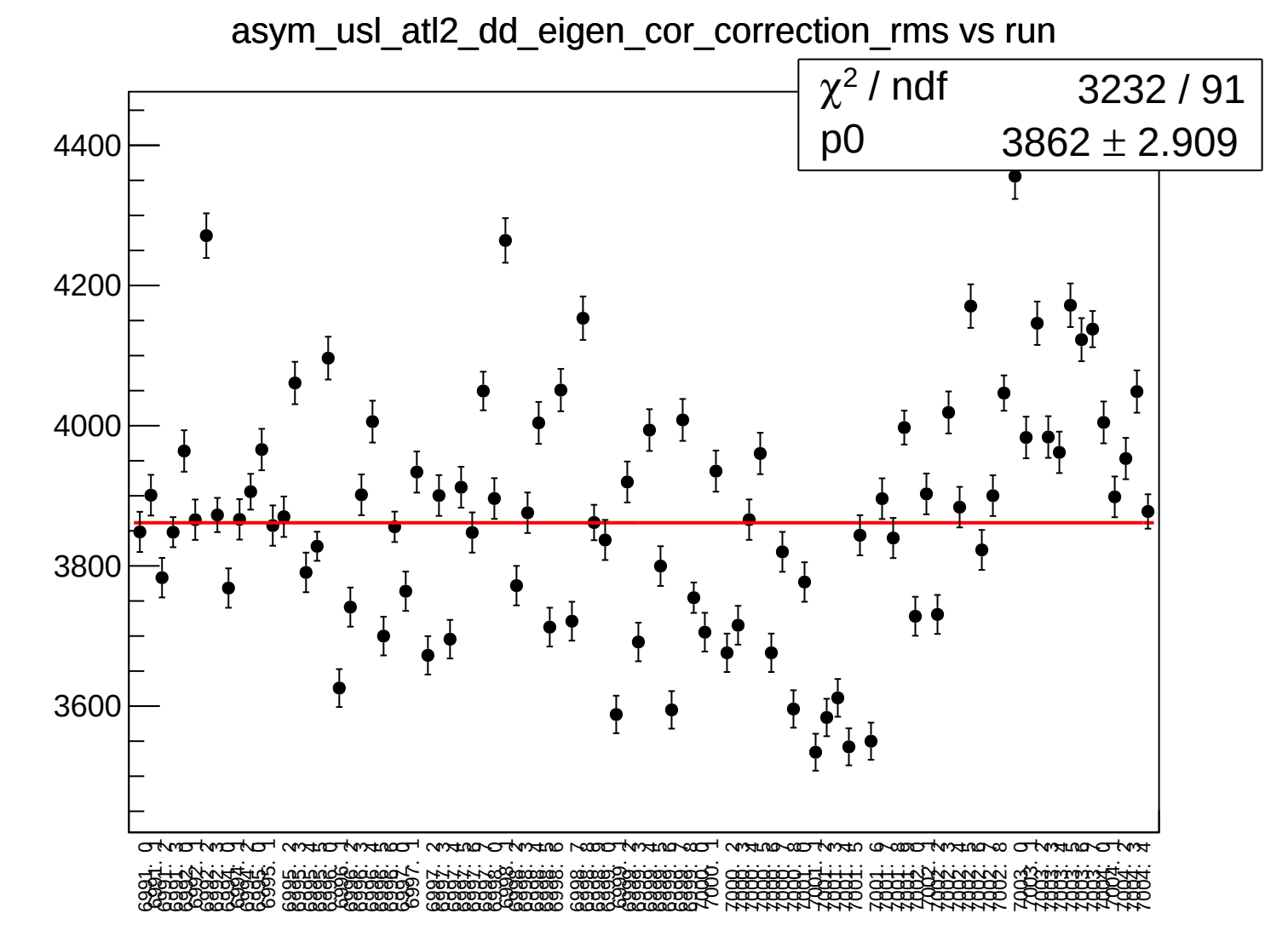

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 101.7 / 91
p0 731 ± 1281
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 461.3
Std Dev 0
2
1
0
−1
−2

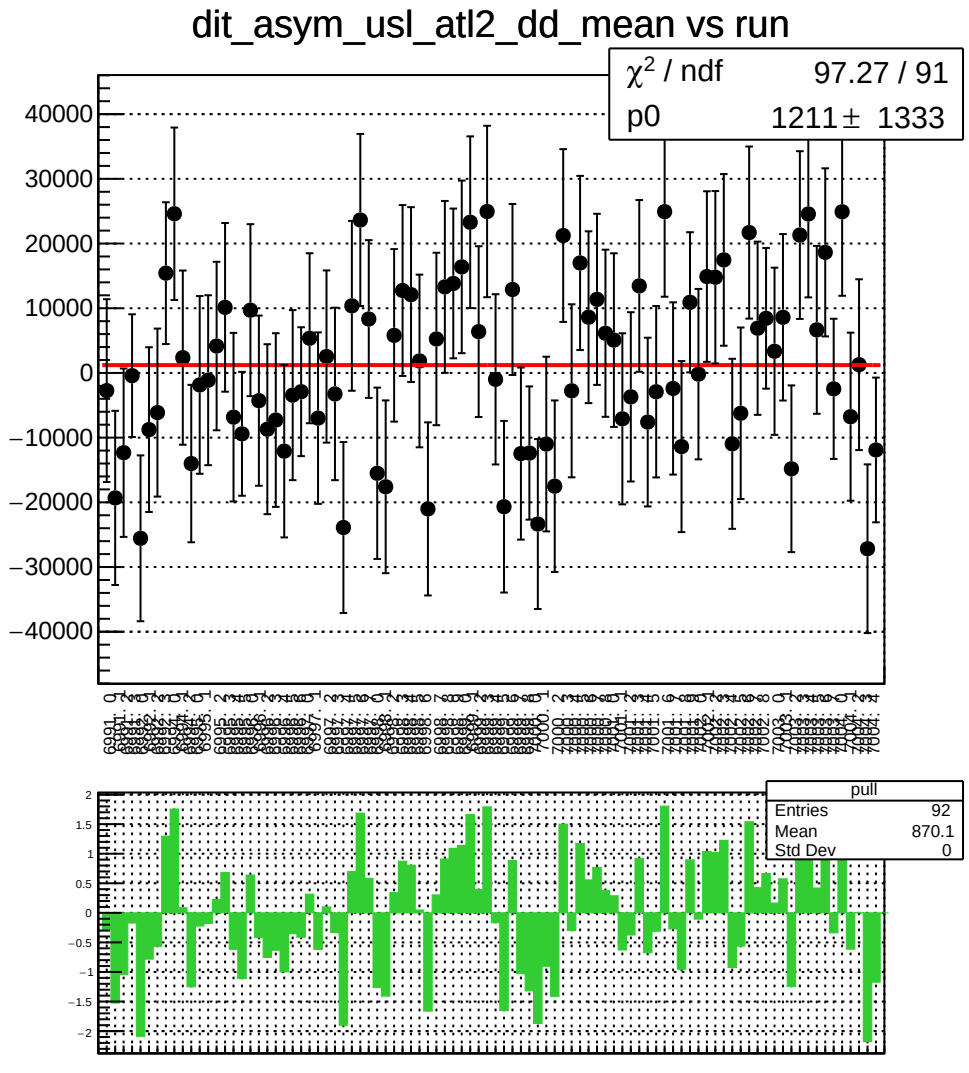

pull1D
Entries 92
Mean 0.01016
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

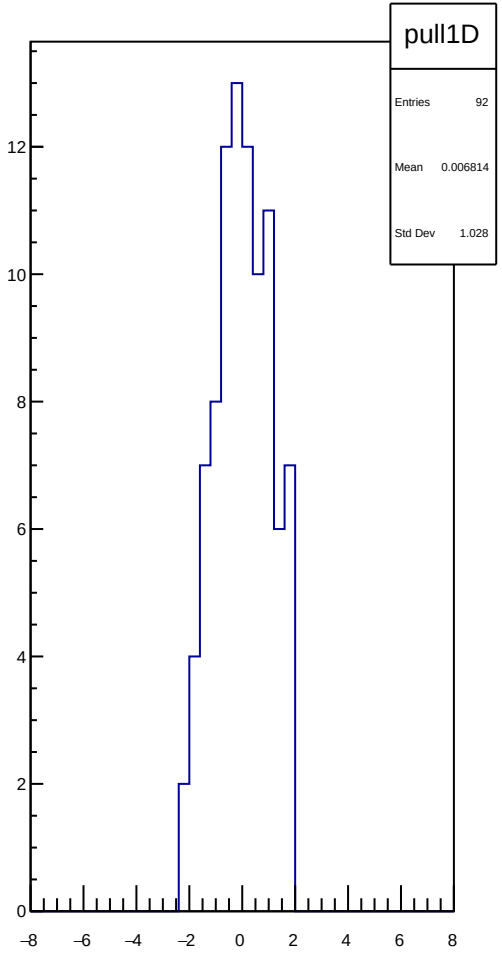

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 428.5 / 91
p0 1203 ± 0.9056
1280
1260
1240
1220
1200
1180
1160
1140

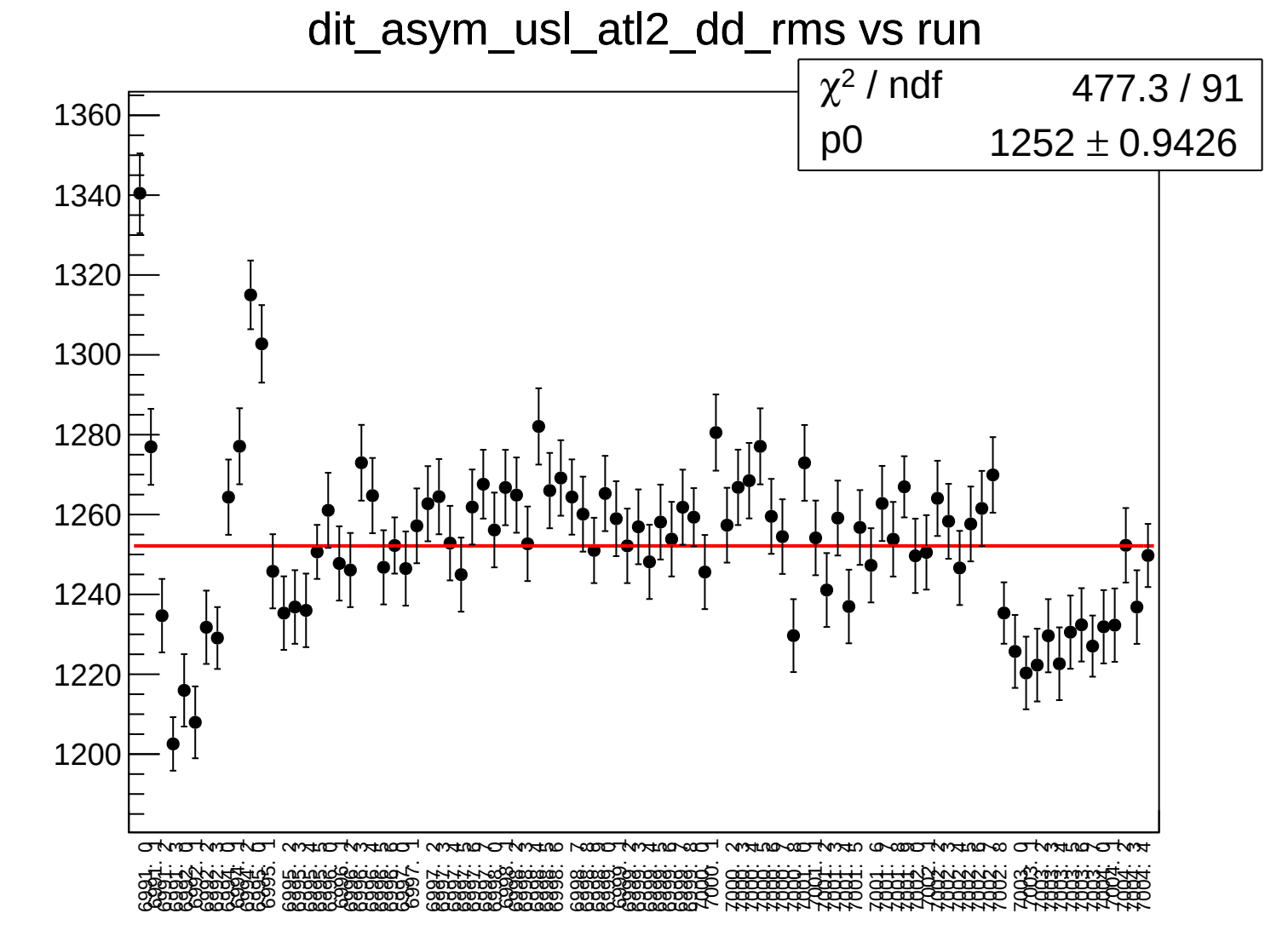

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.9 / 91
p0 3114 ± 4114
pull
Entries 92
Mean −4502
Std Dev 0

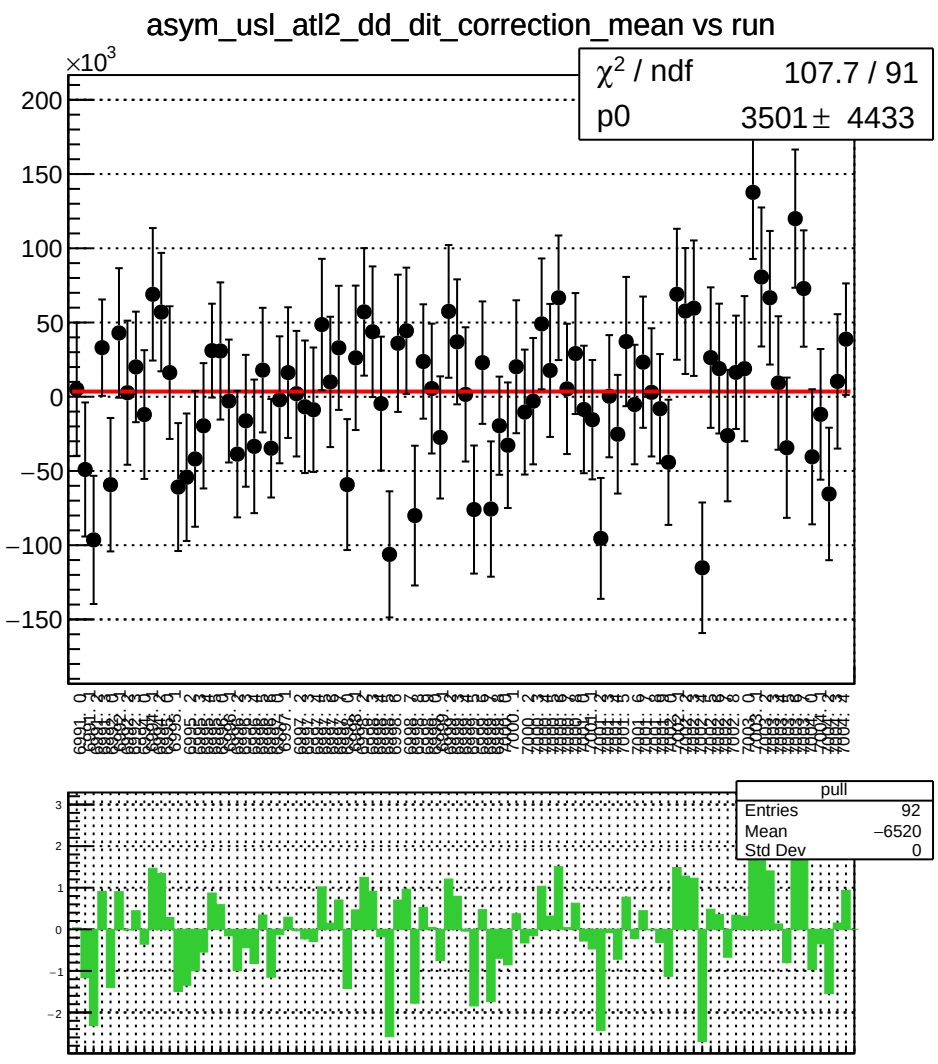

pull1D
Entries 92
Mean −0.001078
Std Dev 1.078

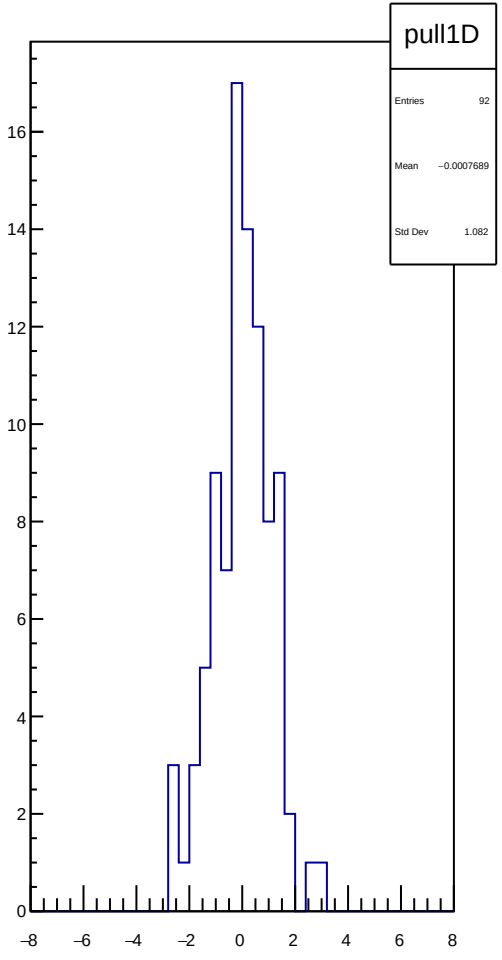

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3232 / 91
p0 3862 ± 2.909
4400
4200
4000
3800
3600

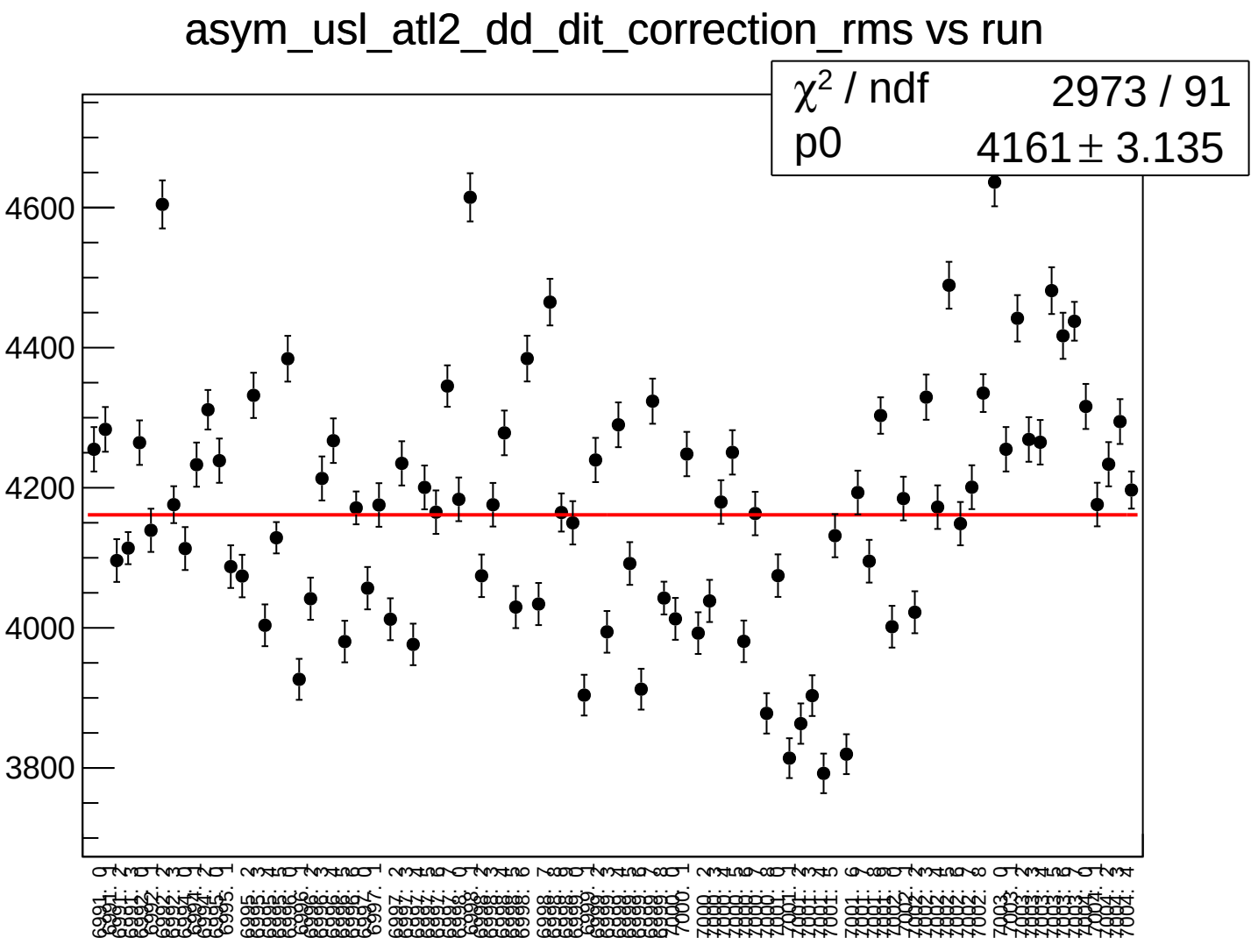

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 97.27 / 91
p0 1211 ± 1333
pull
Entries 92
Mean 870.1
Std Dev 0

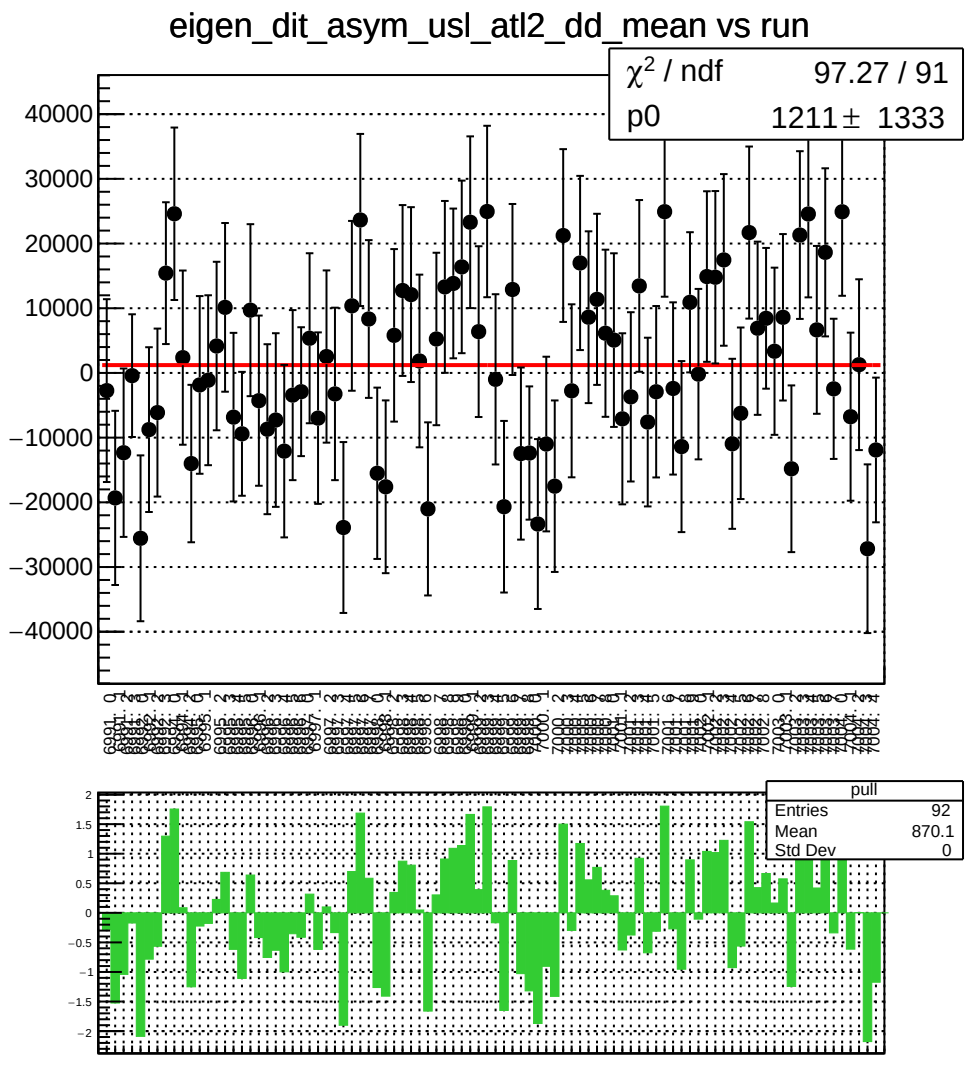

pull1D
Entries 92
Mean 0.006814
Std Dev 1.028

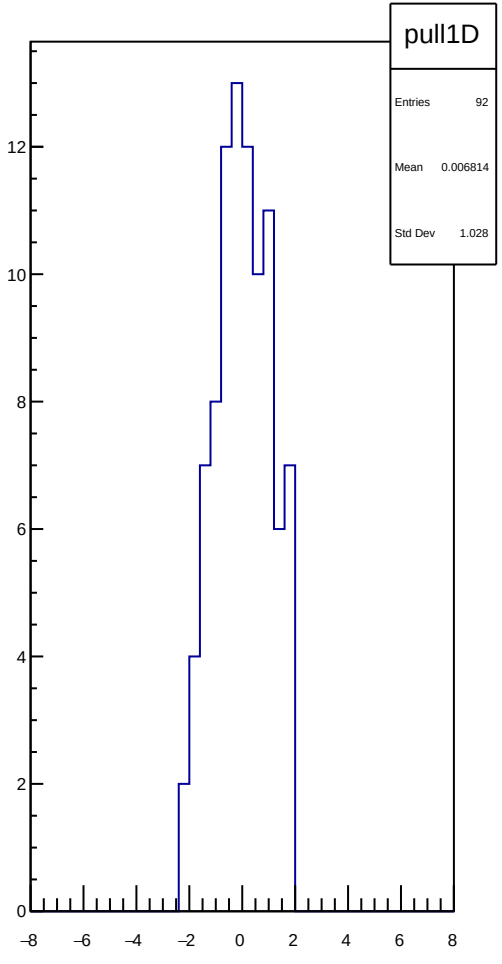

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 477.3 / 91
p0 1252 ± 0.9426
1360
1340
1320
1300
1280
1260
1240
1220
1200

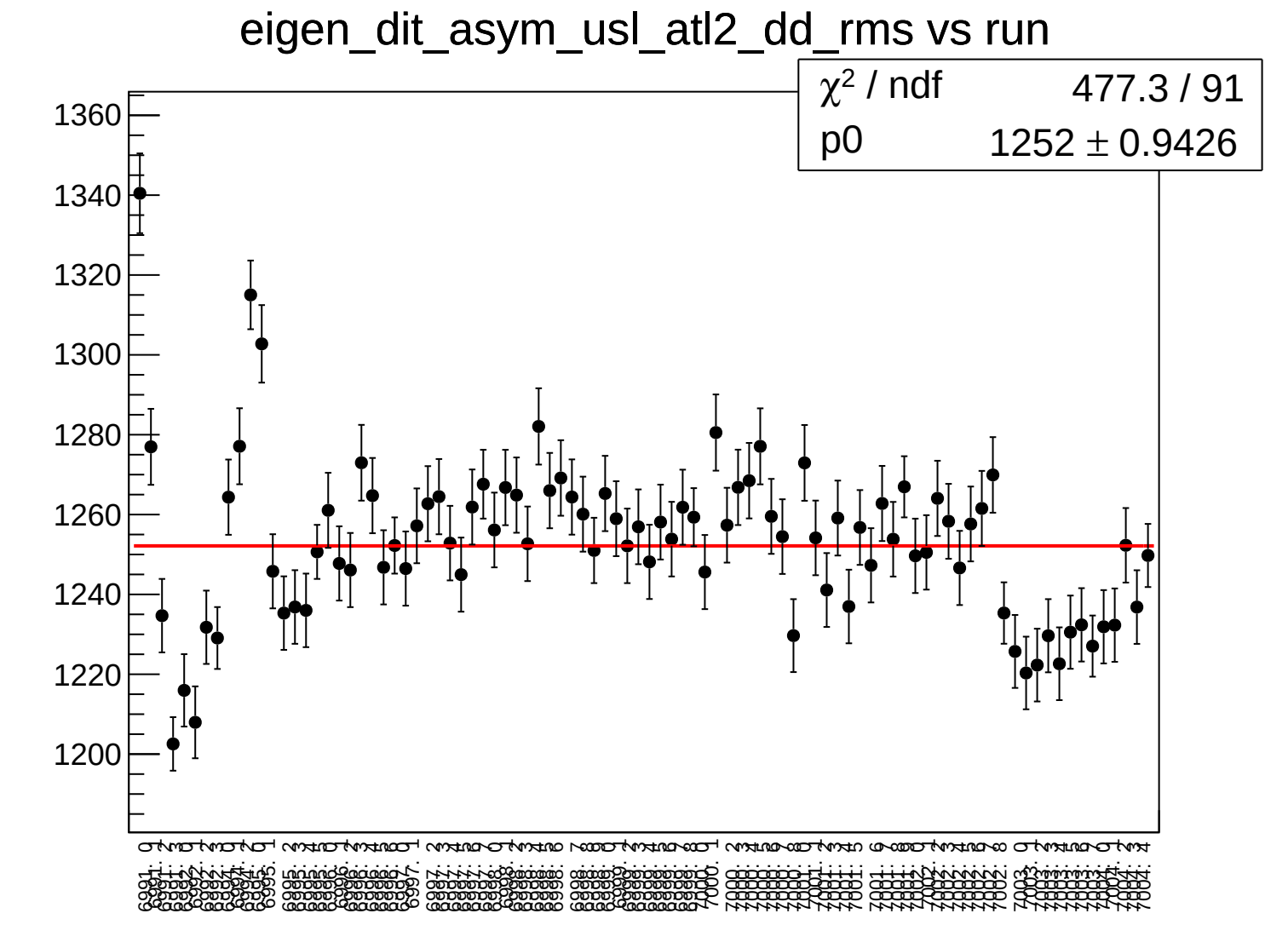

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.7 / 91
p0 3501 ± 4433
pull
Entries 92
Mean −6520
Std Dev 0

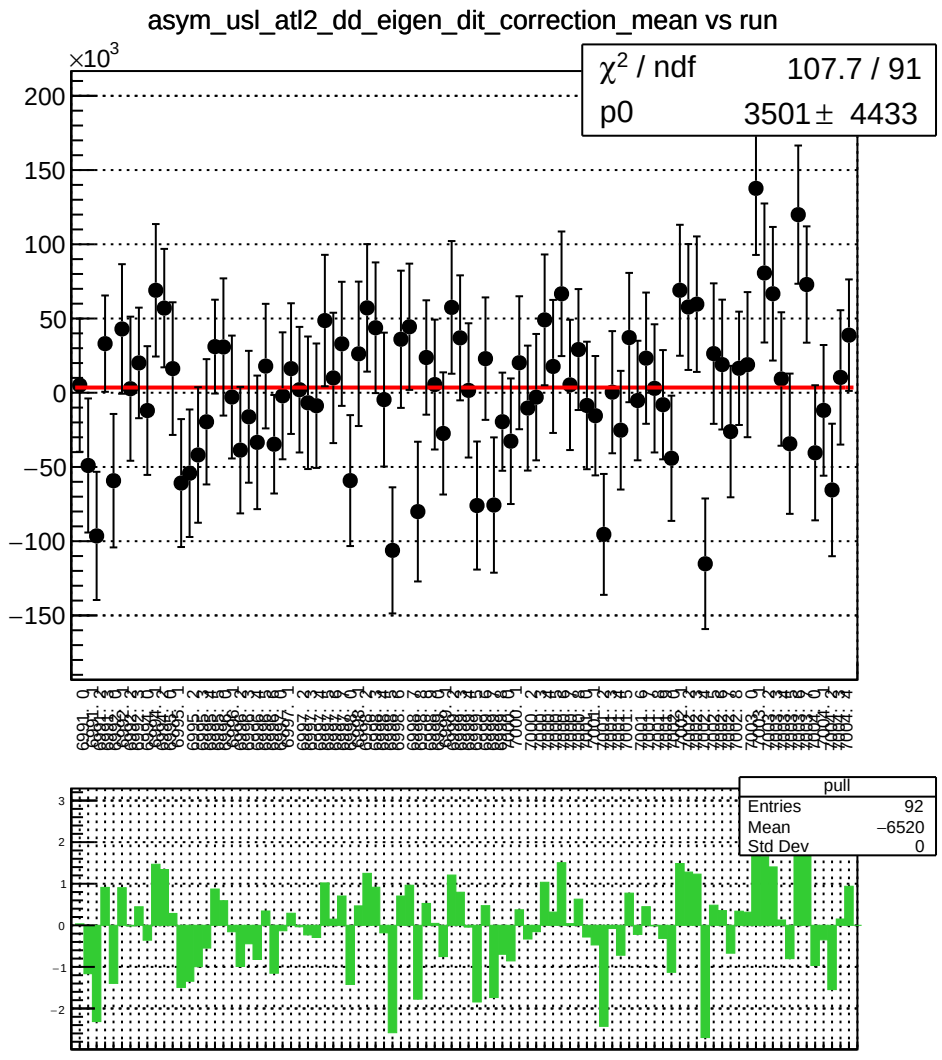

pull1D
Entries 92
Mean −0.0007689
Std Dev 1.082

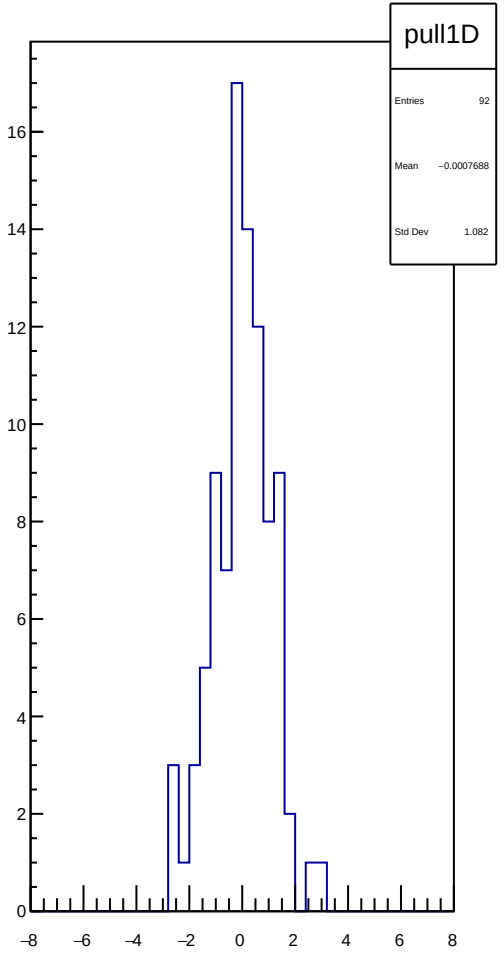

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 2973 / 91
p0 4161 ± 3.135
4600
4400
4200
4000
3800

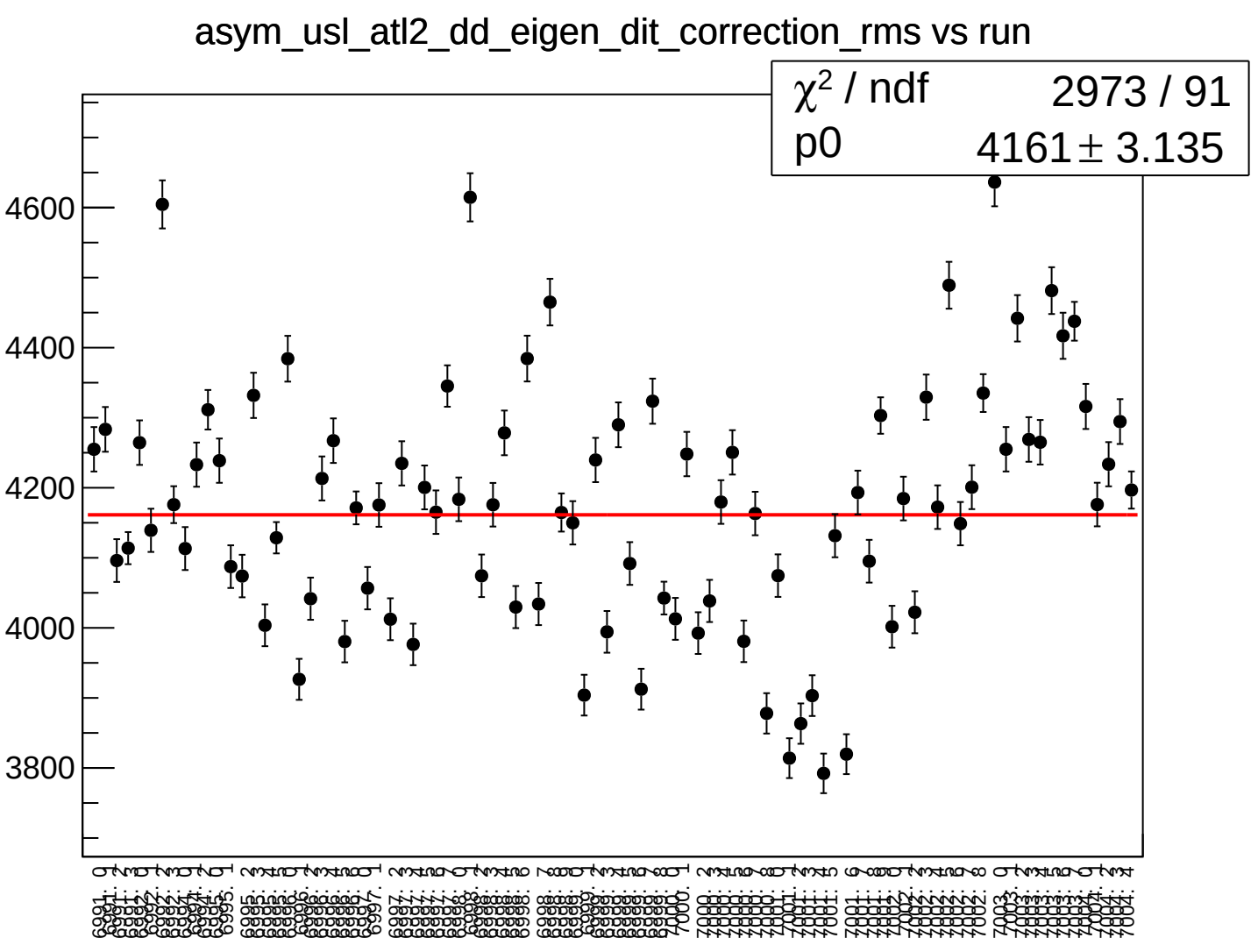

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 97.27 / 91
p0 1211 ± 1333
pull
Entries 92
Mean 870.1
Std Dev 0

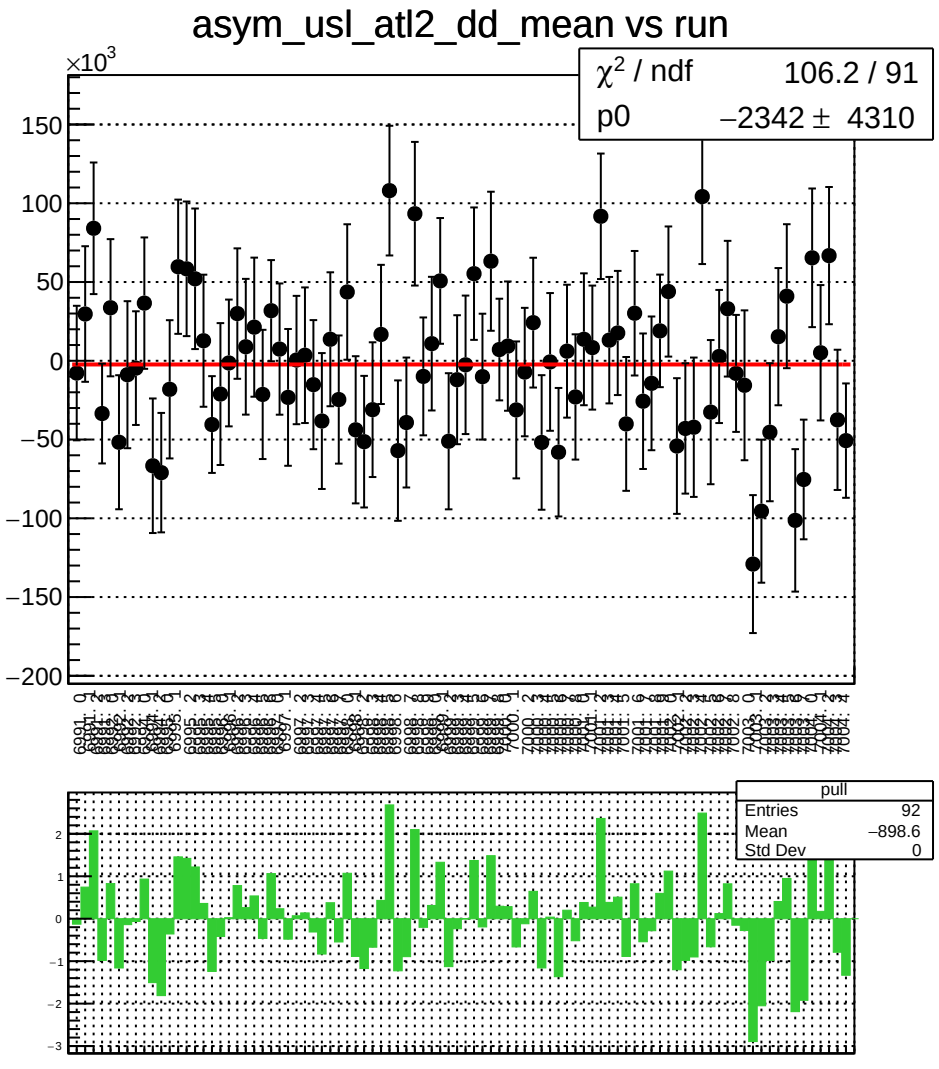

pull1D
Entries 92
Mean 0.006814
Std Dev 1.028

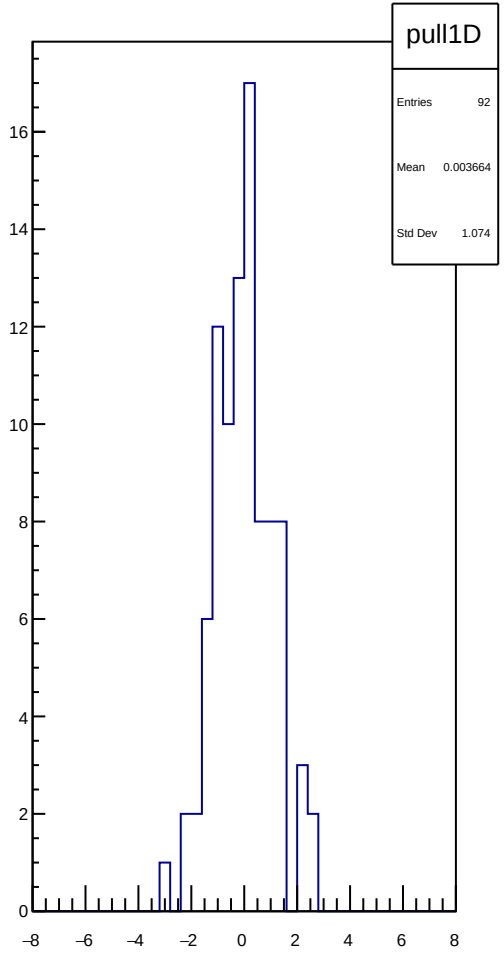

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 477.3 / 91
p0 1252 ± 0.9426
1360
1340
1320
1300
1280
1260
1240
1220
1200

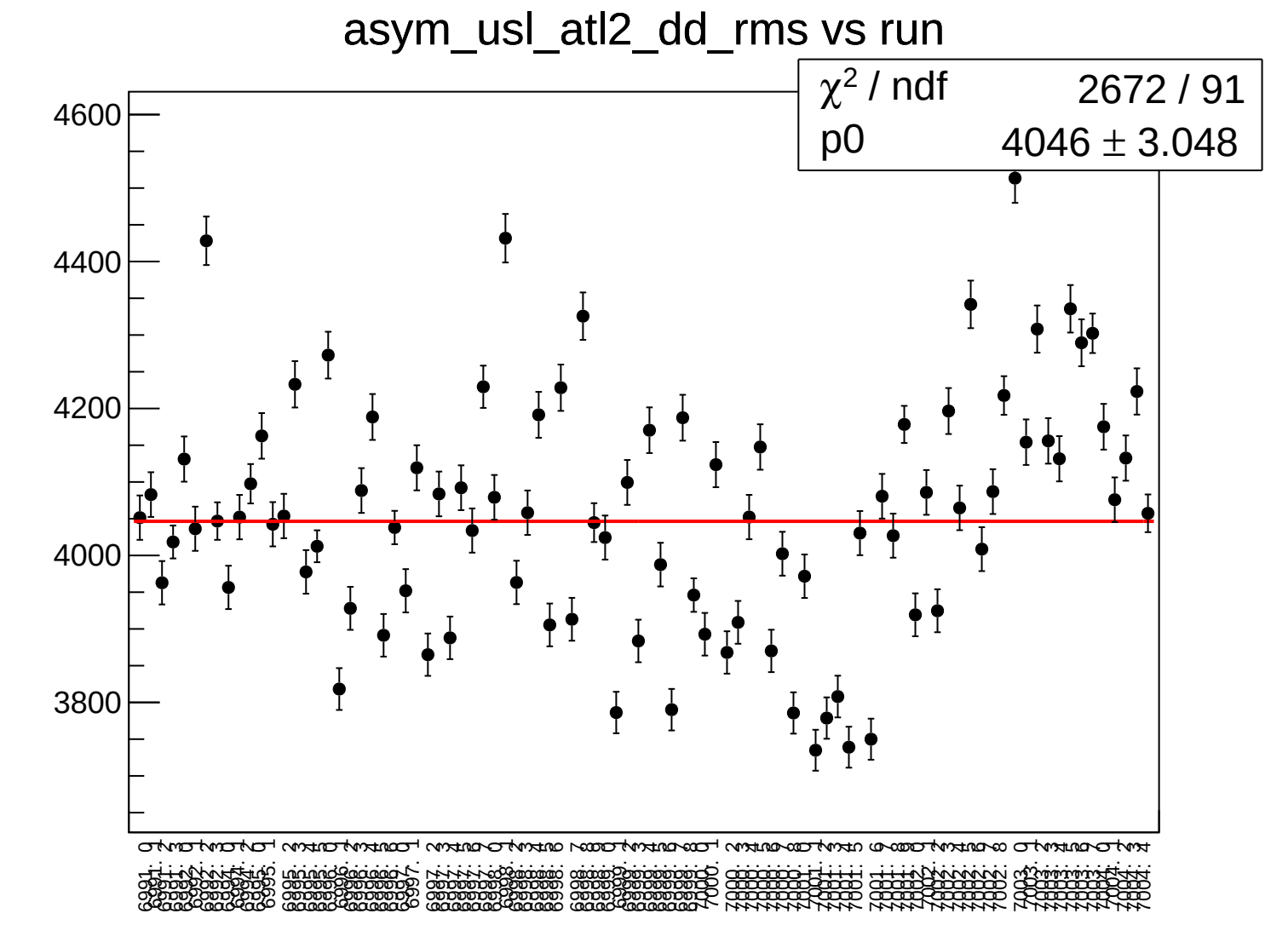

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.7 / 91
p0 3501 ± 4433
pull
Entries 92
Mean −6520
Std Dev 0

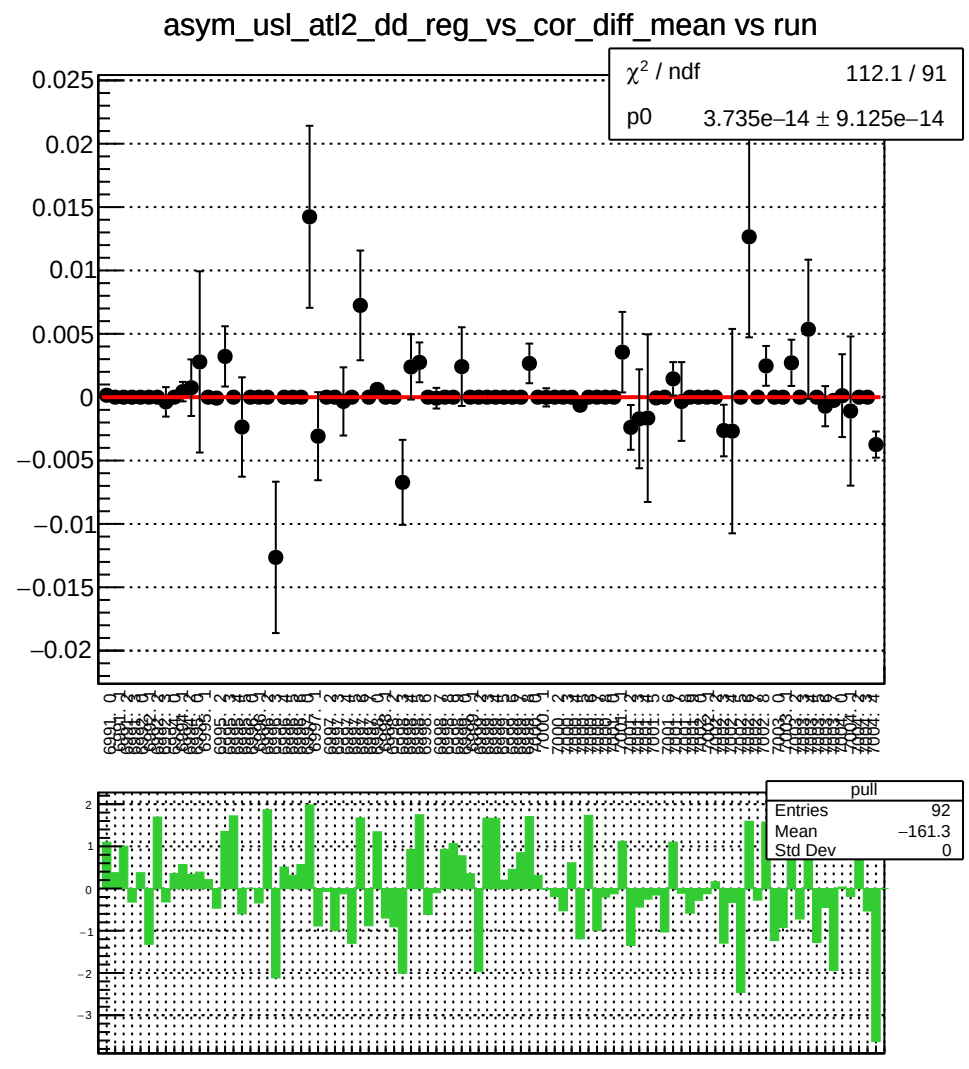

pull1D
Entries 92
Mean −0.0007688
Std Dev 1.082

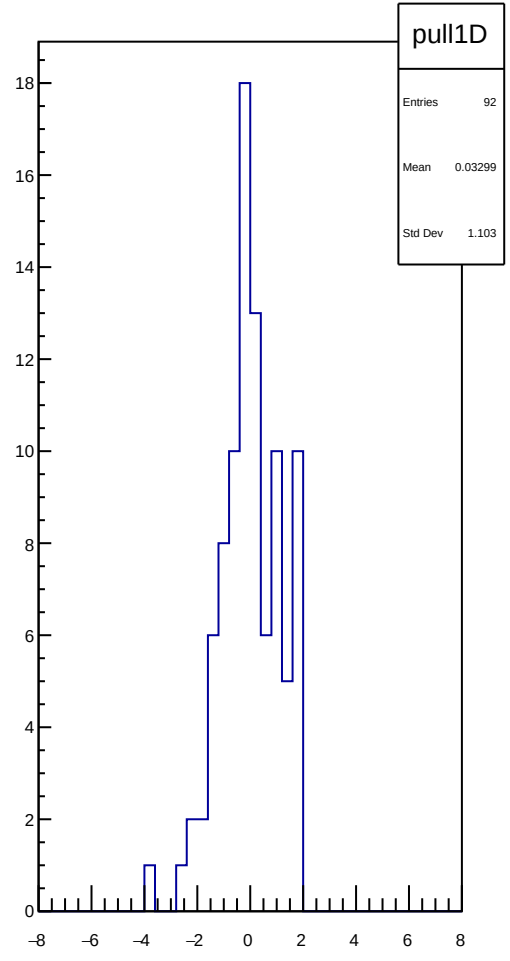

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2973 / 91
p0 4161 ± 3.135
4600
4400
4200
4000
3800

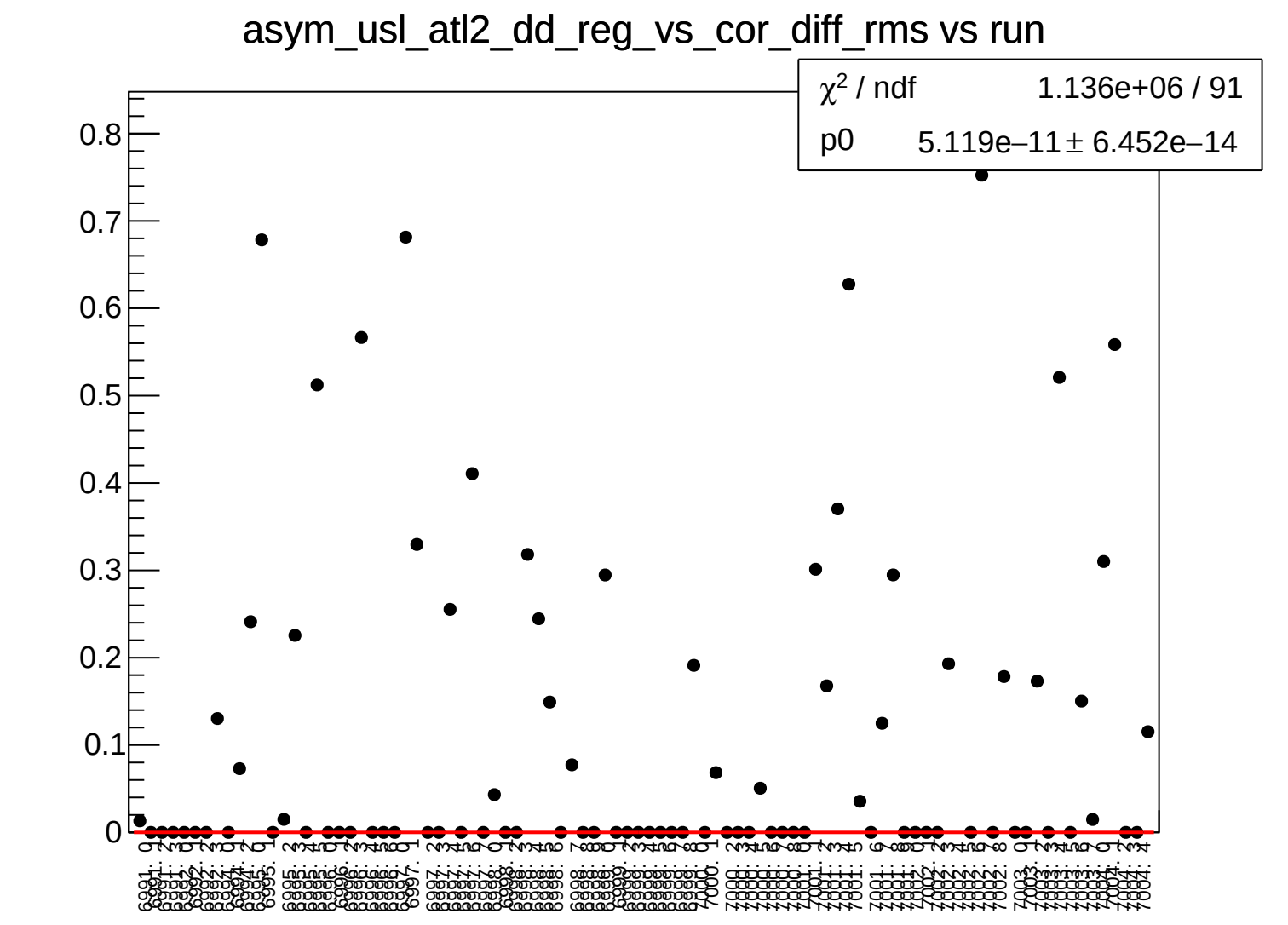

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 106.2 / 91
p0 −2342 ± 4310
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −898.6
Std Dev 0
2
1
0
−1
−2
−3

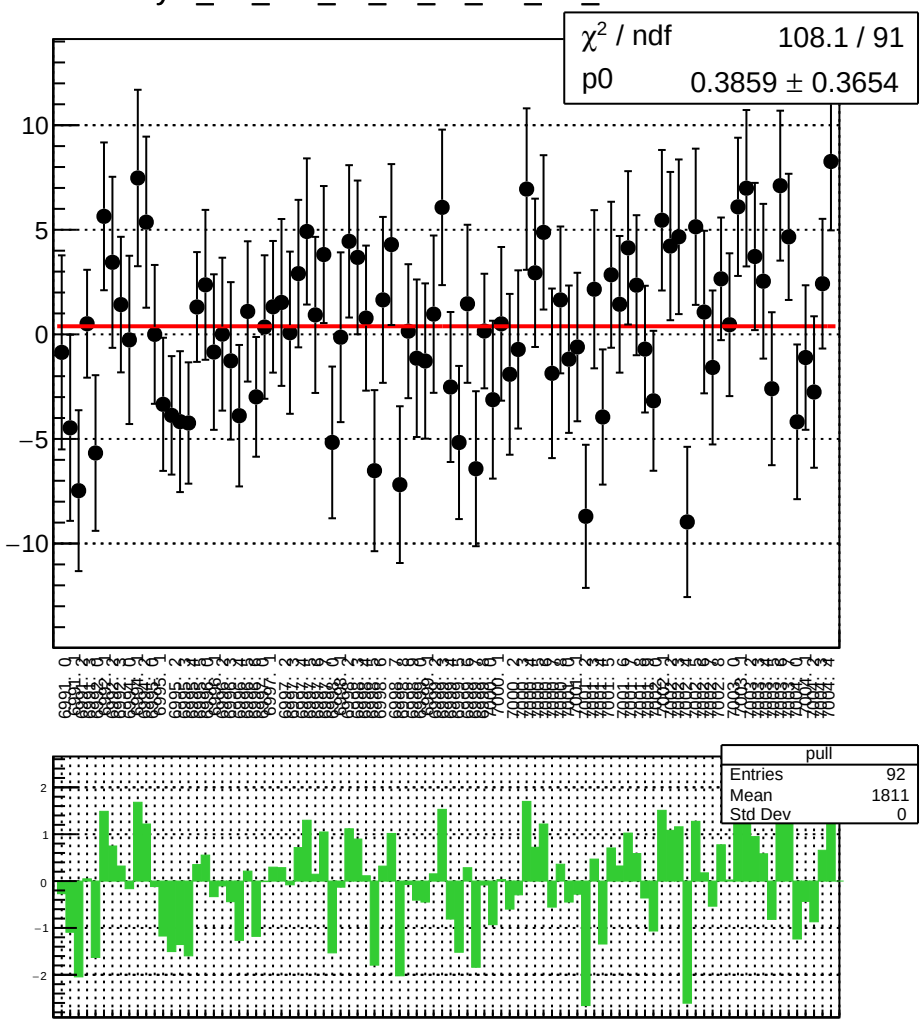

pull1D
Entries 92
Mean 0.003664
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

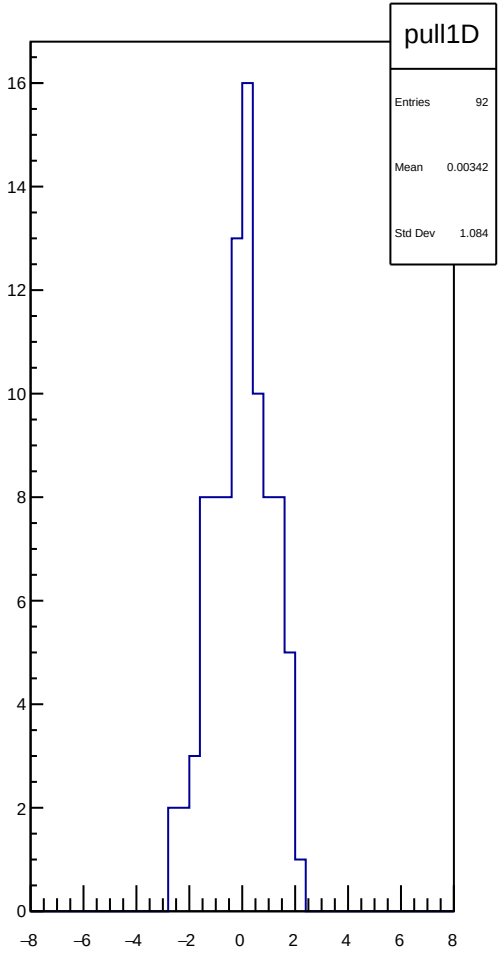

asym_usl_atl2_dd_rms vs run
χ² / ndf 2672 / 91
p0 4046 ± 3.048
4600
4400
4200
4000
3800

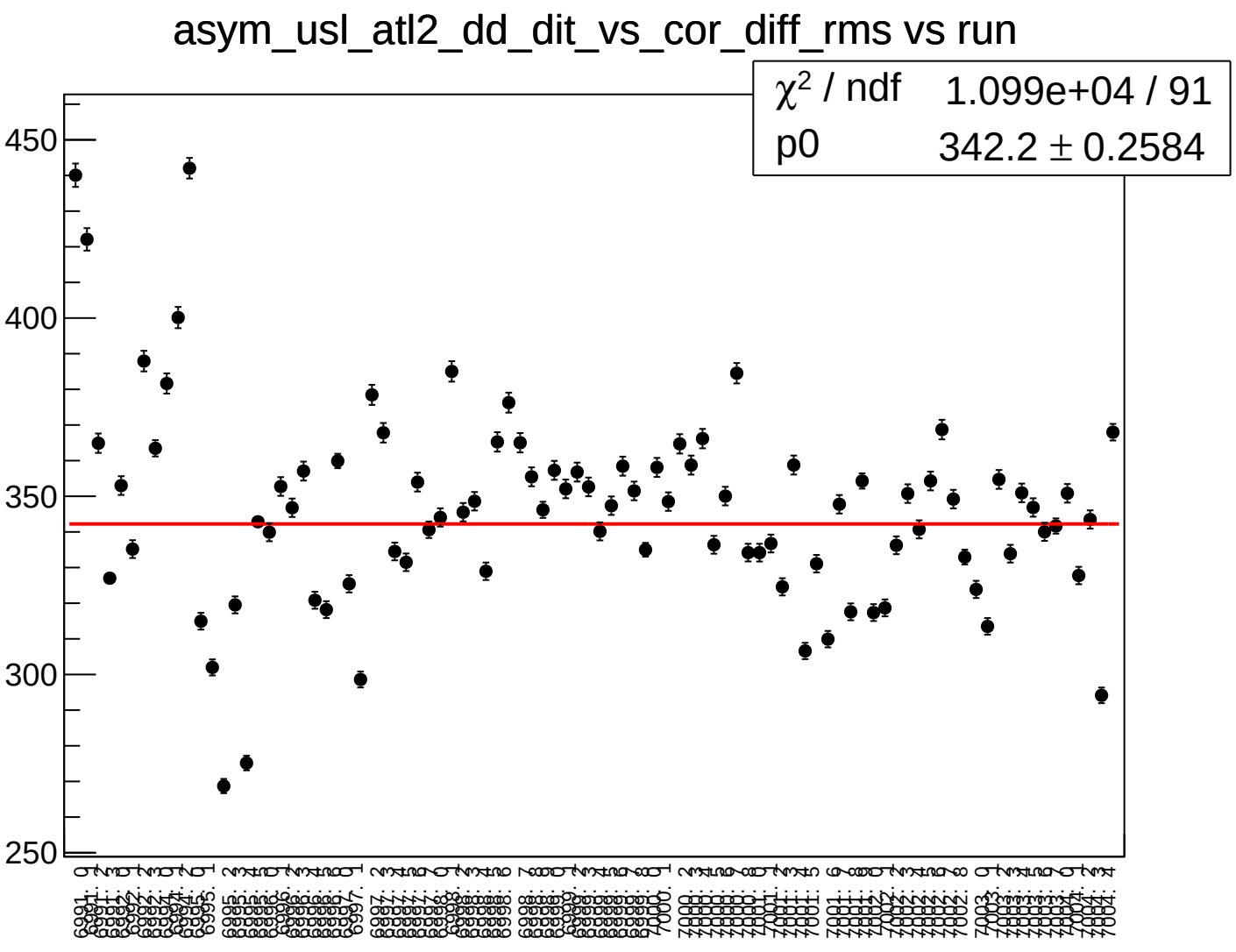

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 91
p0 3.735e−14 ± 9.125e−14
pull
Entries 92
Mean −161.3
Std Dev 0

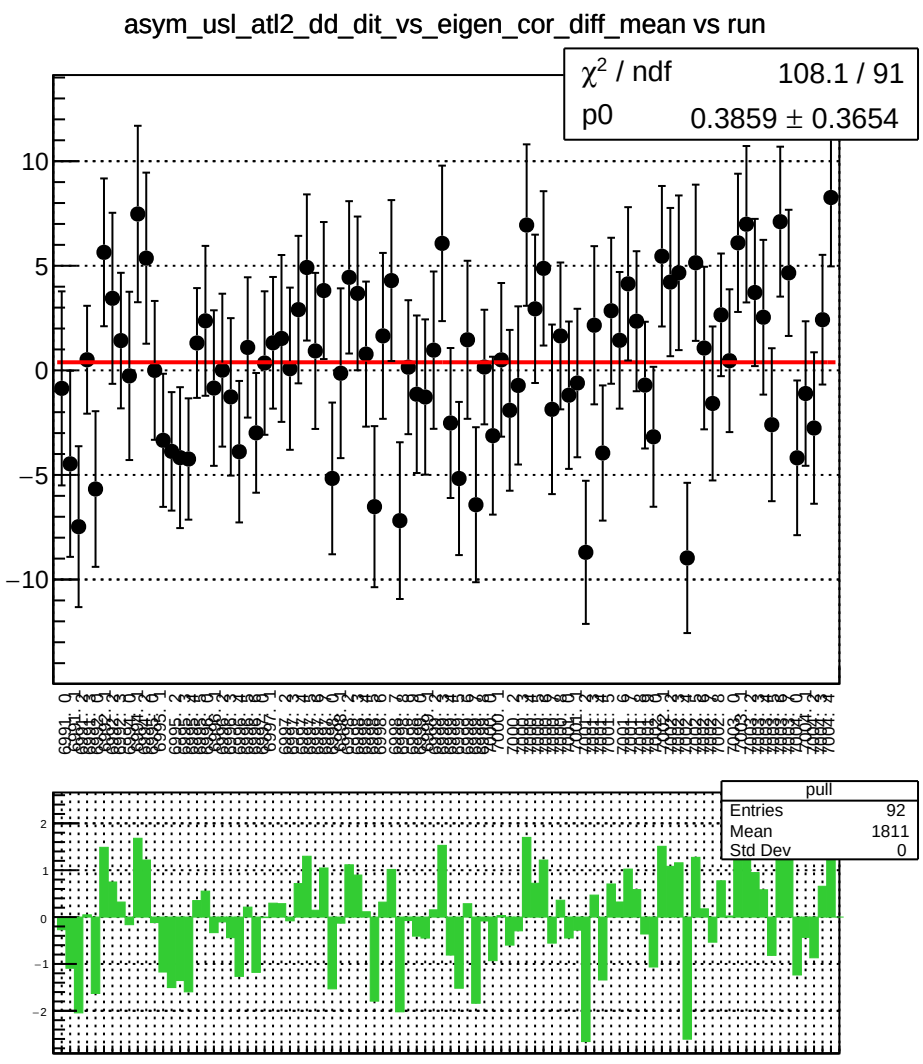

pull1D
Entries 92
Mean 0.03299
Std Dev 1.103

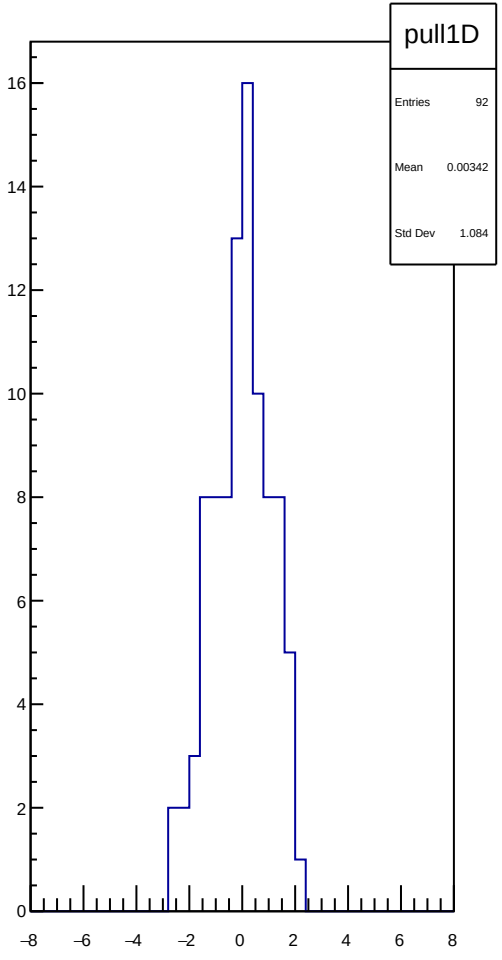

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.136e+06 / 91
p0 5.119e−11 ± 6.452e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

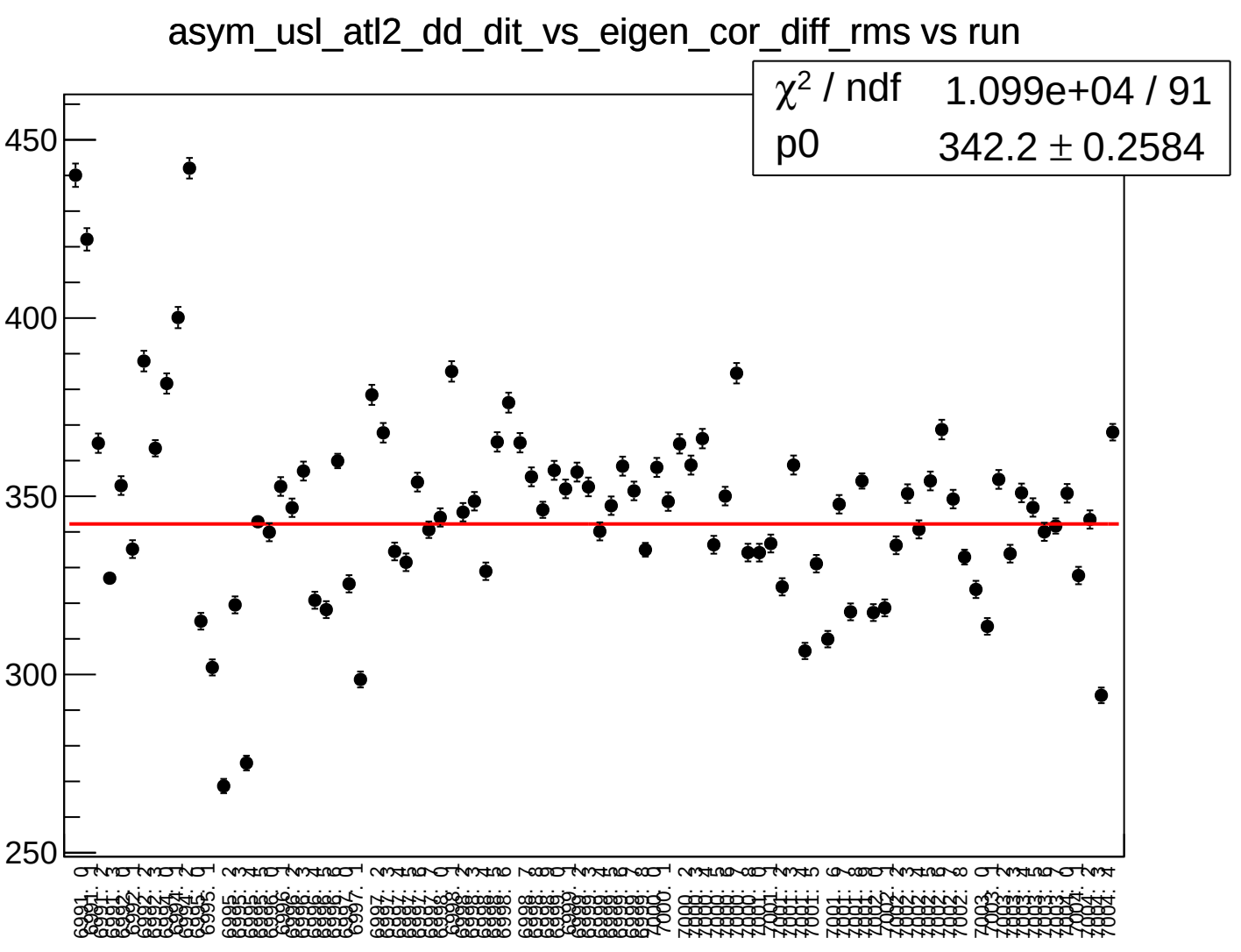

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 91
p0 0.3859 ± 0.3654
pull
Entries 92
Mean 1811
Std Dev 0

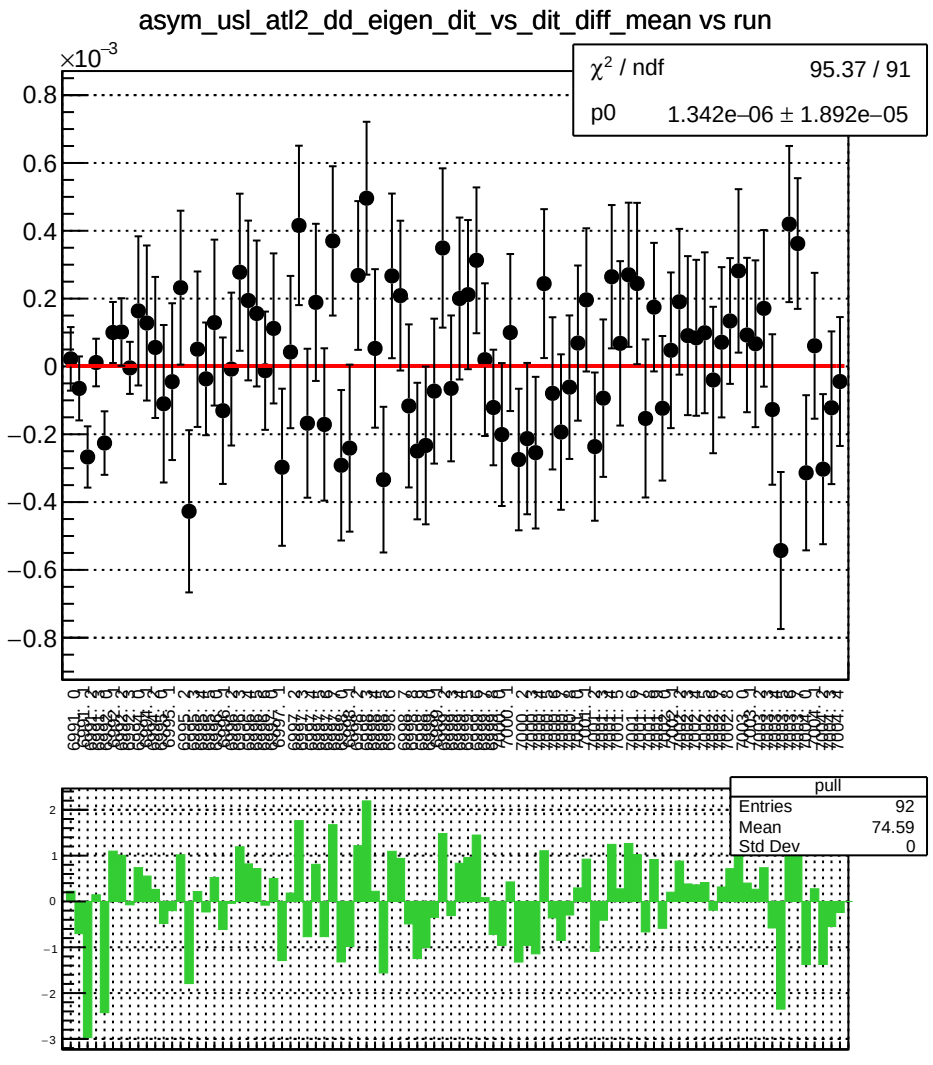

pull1D
Entries 92
Mean 0.00342
Std Dev 1.084

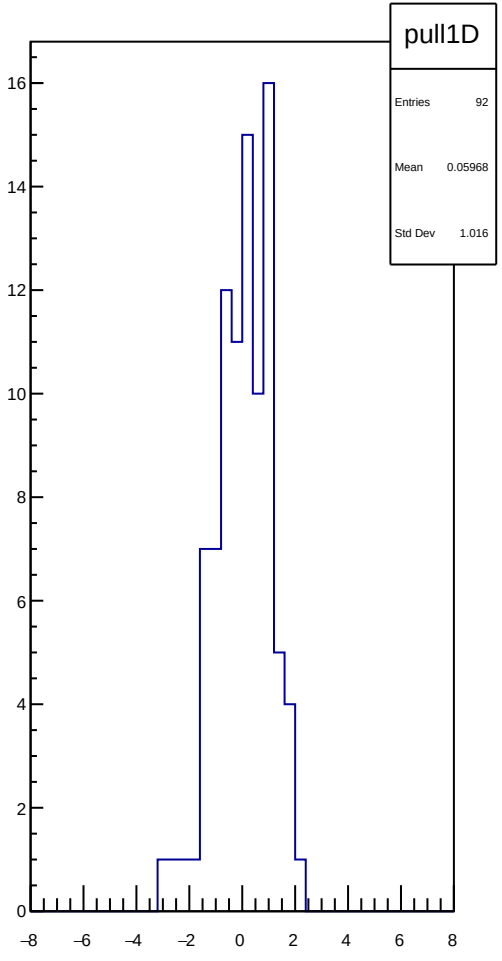

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.099e+04 / 91
p0 342.2 ± 0.2584
450
400
350
300
250

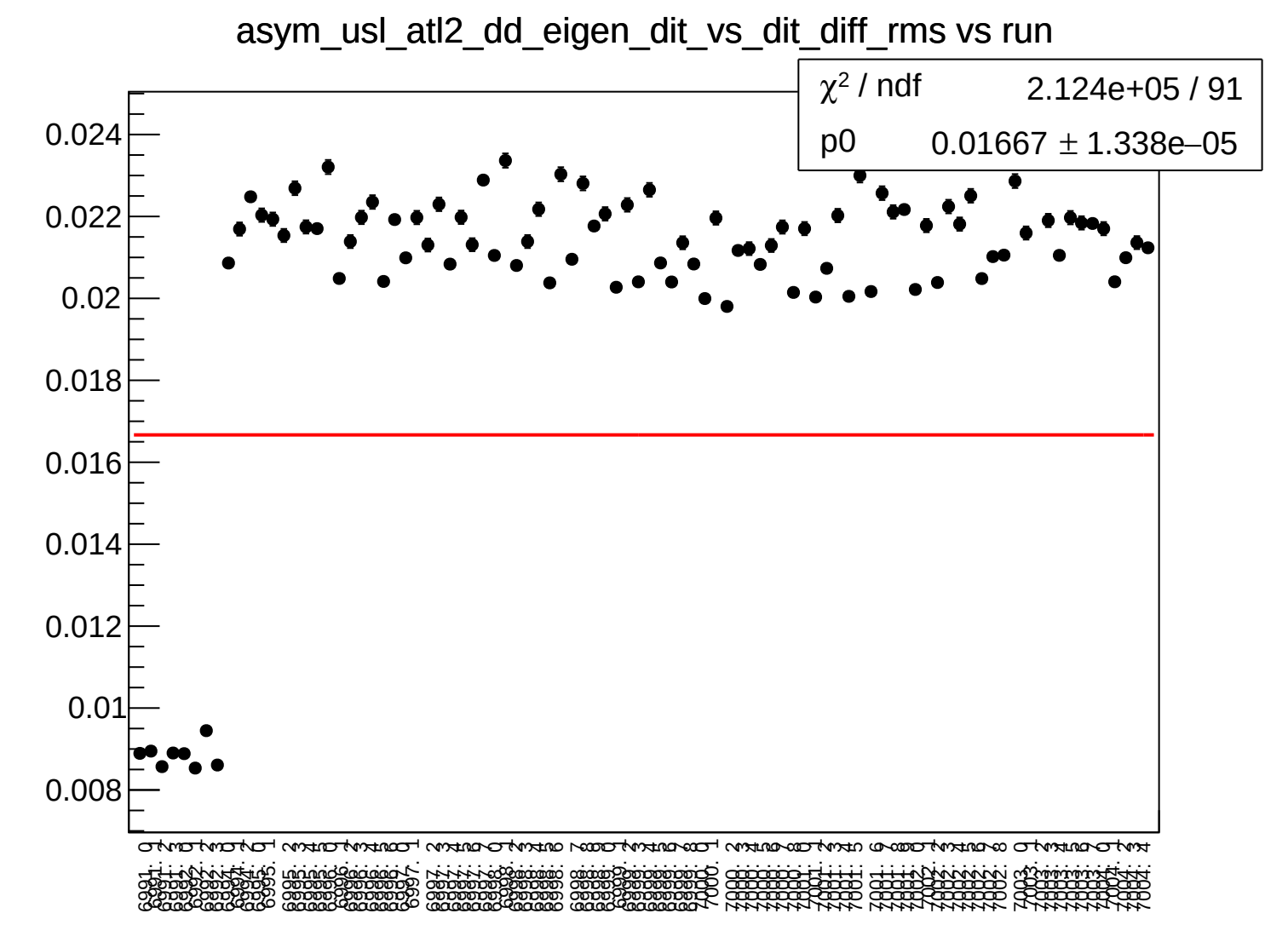

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.1 / 91
p0 0.3859 ± 0.3654
pull
Entries 92
Mean 1811
Std Dev 0

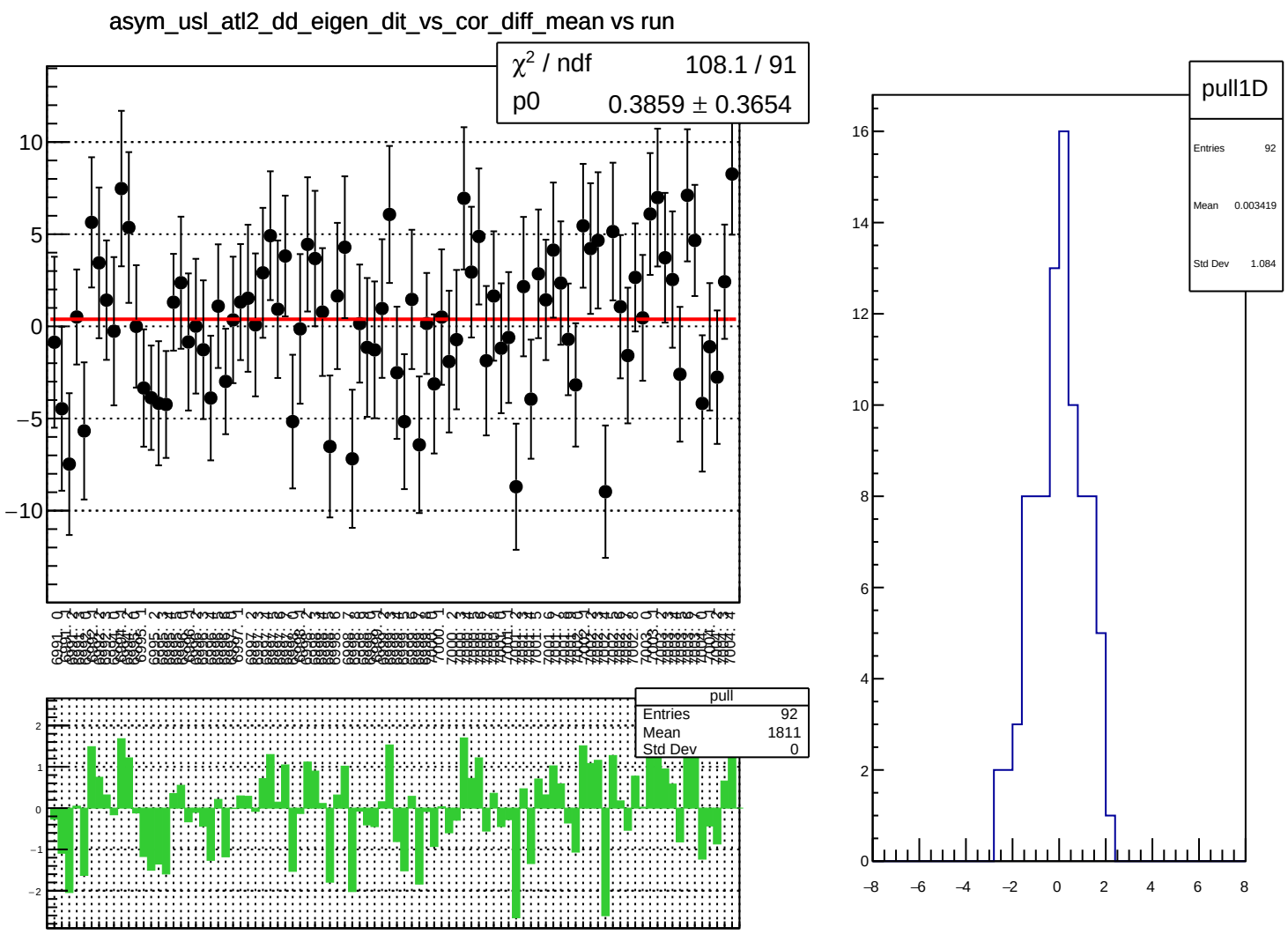

pull1D
Entries 92
Mean 0.00342
Std Dev 1.084

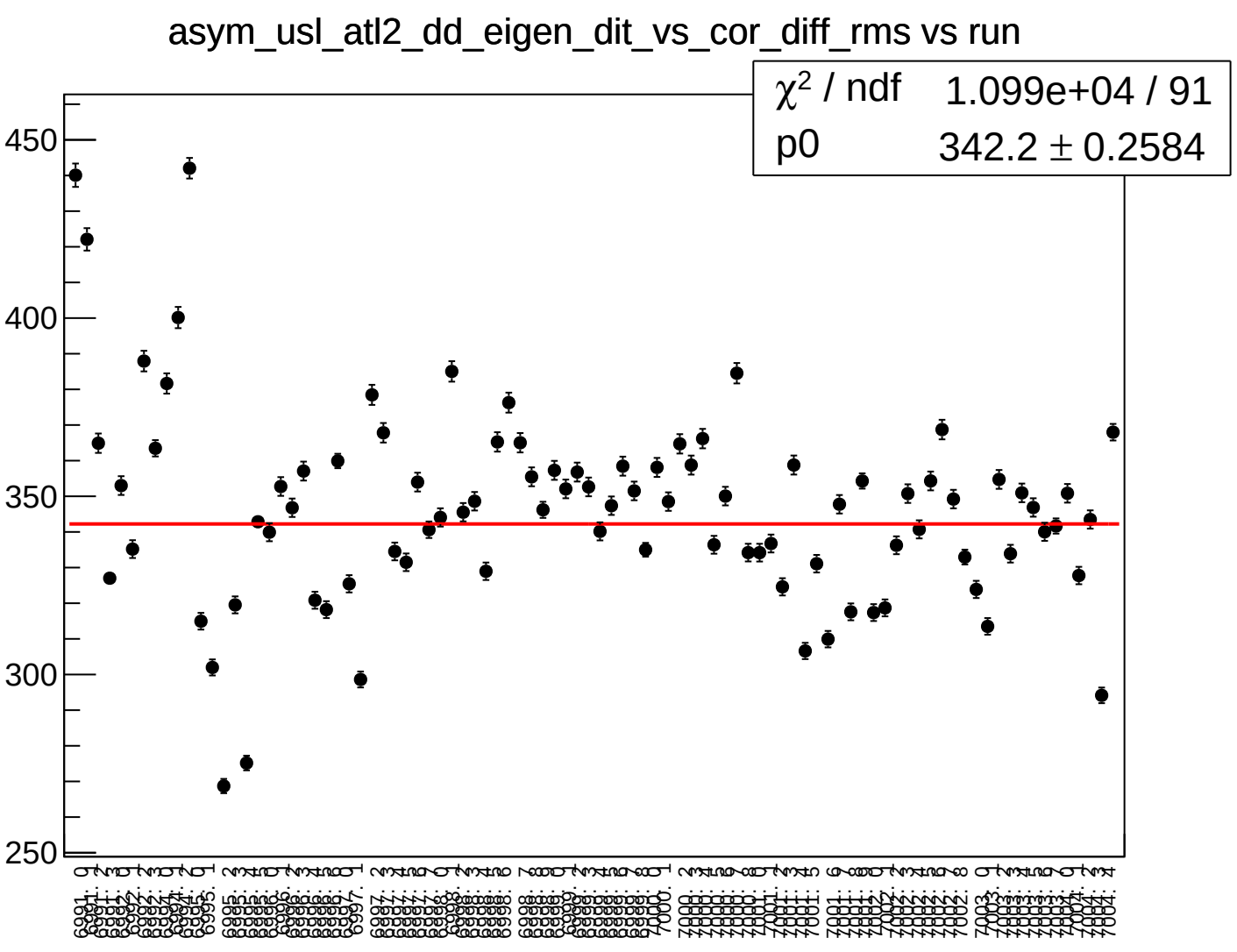

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.099e+04 / 91
p0 342.2 ± 0.2584
450
400
350
300
250

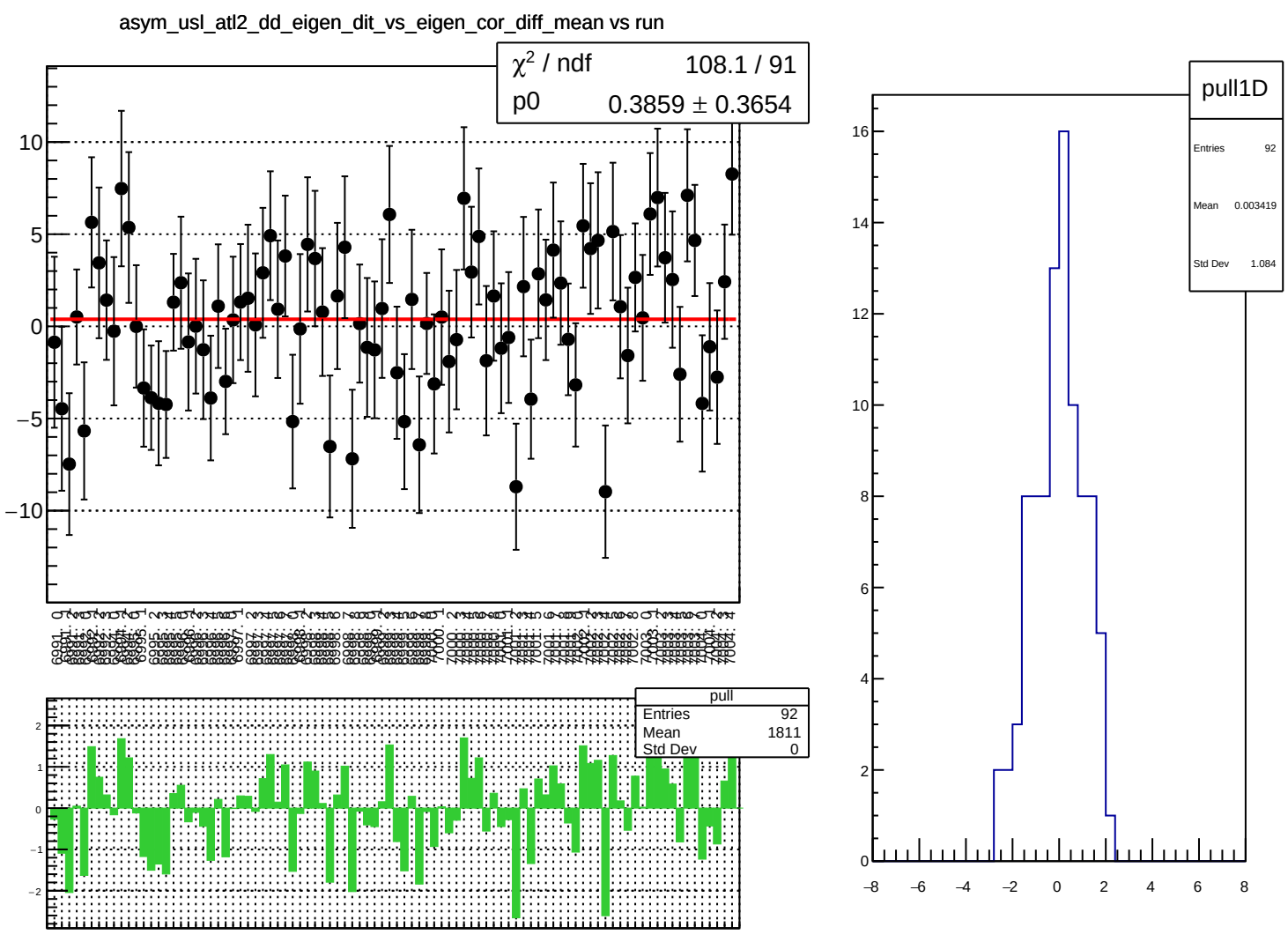

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 95.37 / 91
p0 1.342e−06 ± 1.892e−05
pull
Entries 92
Mean 74.59
Std Dev 0

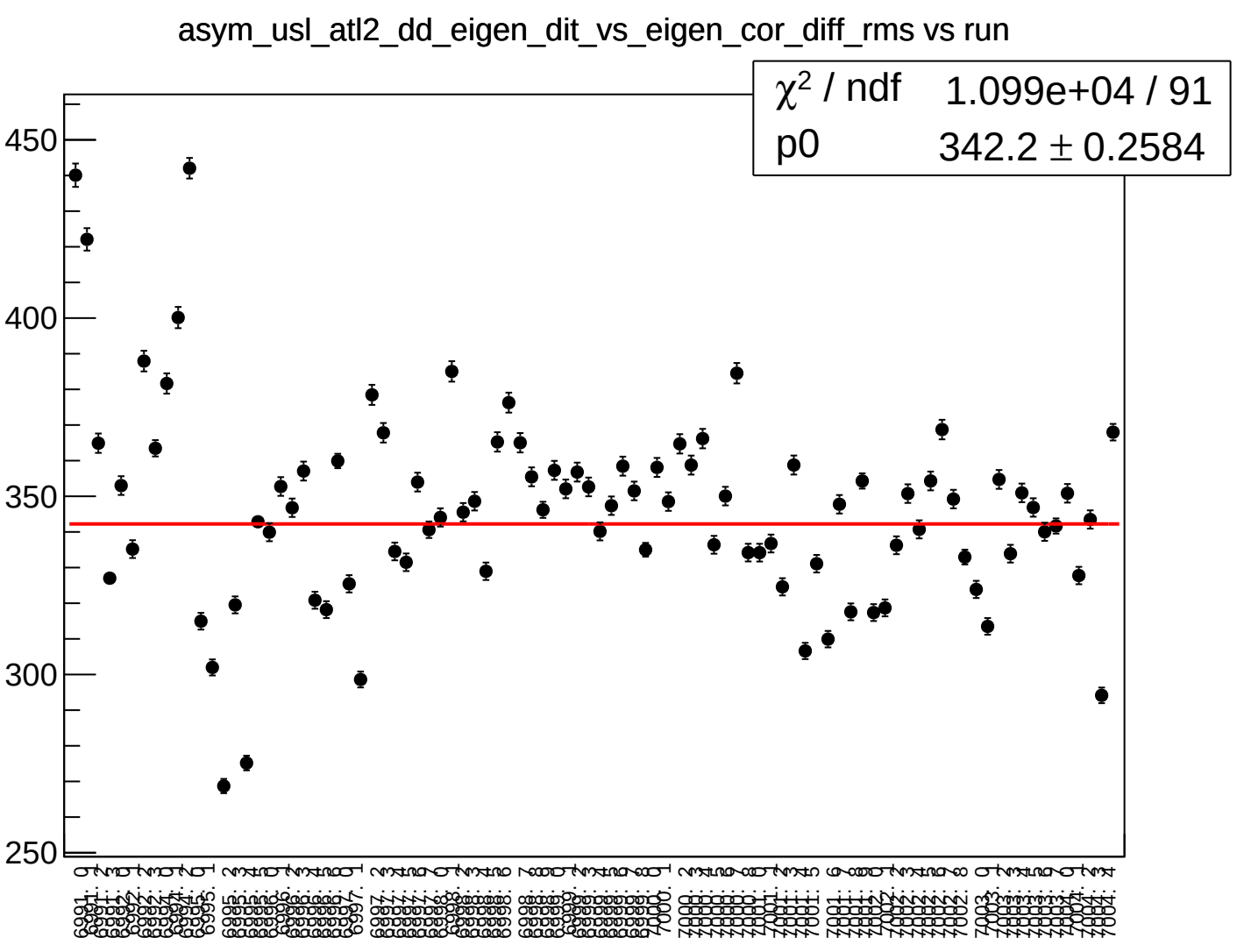

pull1D
Entries 92
Mean 0.05968
Std Dev 1.016

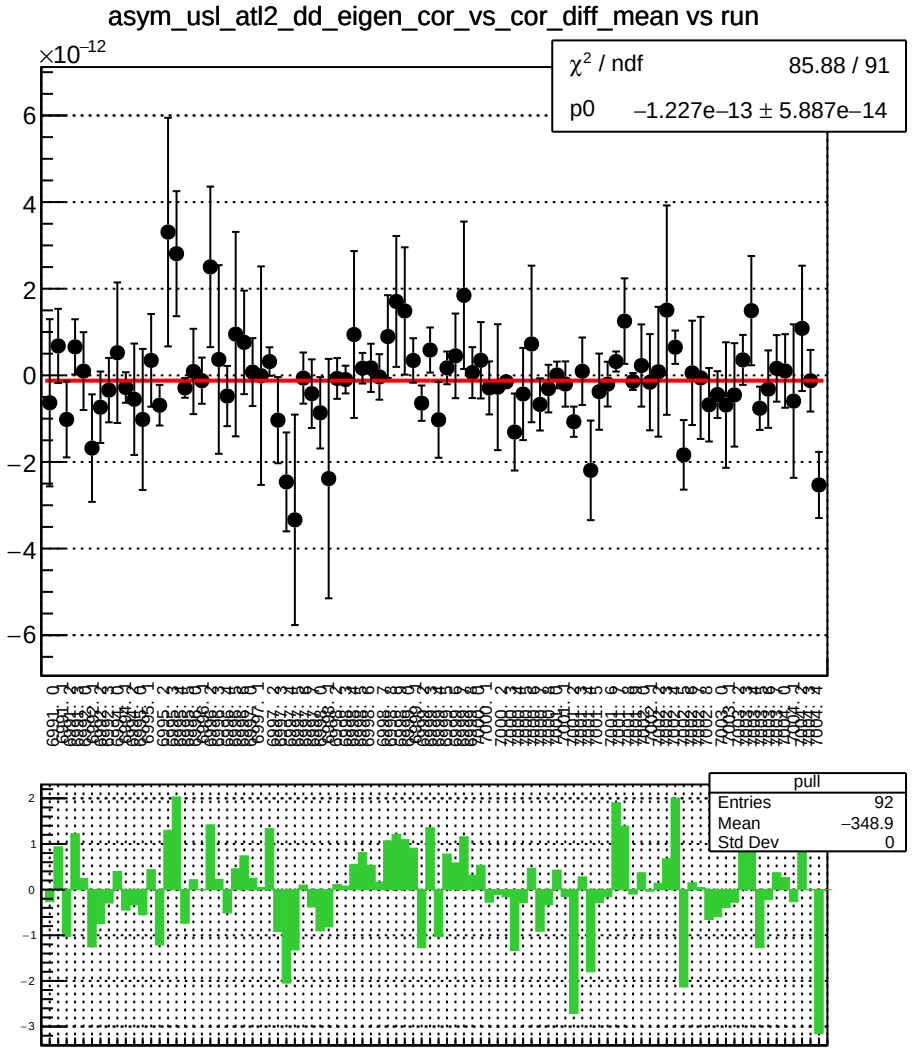

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.124e+05 / 91
p0 0.01667 ± 1.338e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

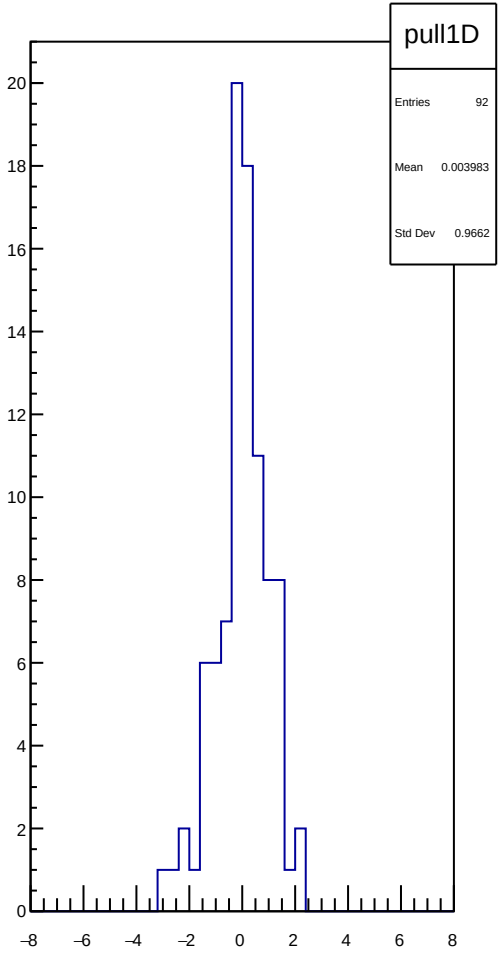

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 91
p0 0.3859 ± 0.3654
pull
Entries 92
Mean 1811
Std Dev 0
pull1D
Entries 92
Mean 0.003419
Std Dev 1.084

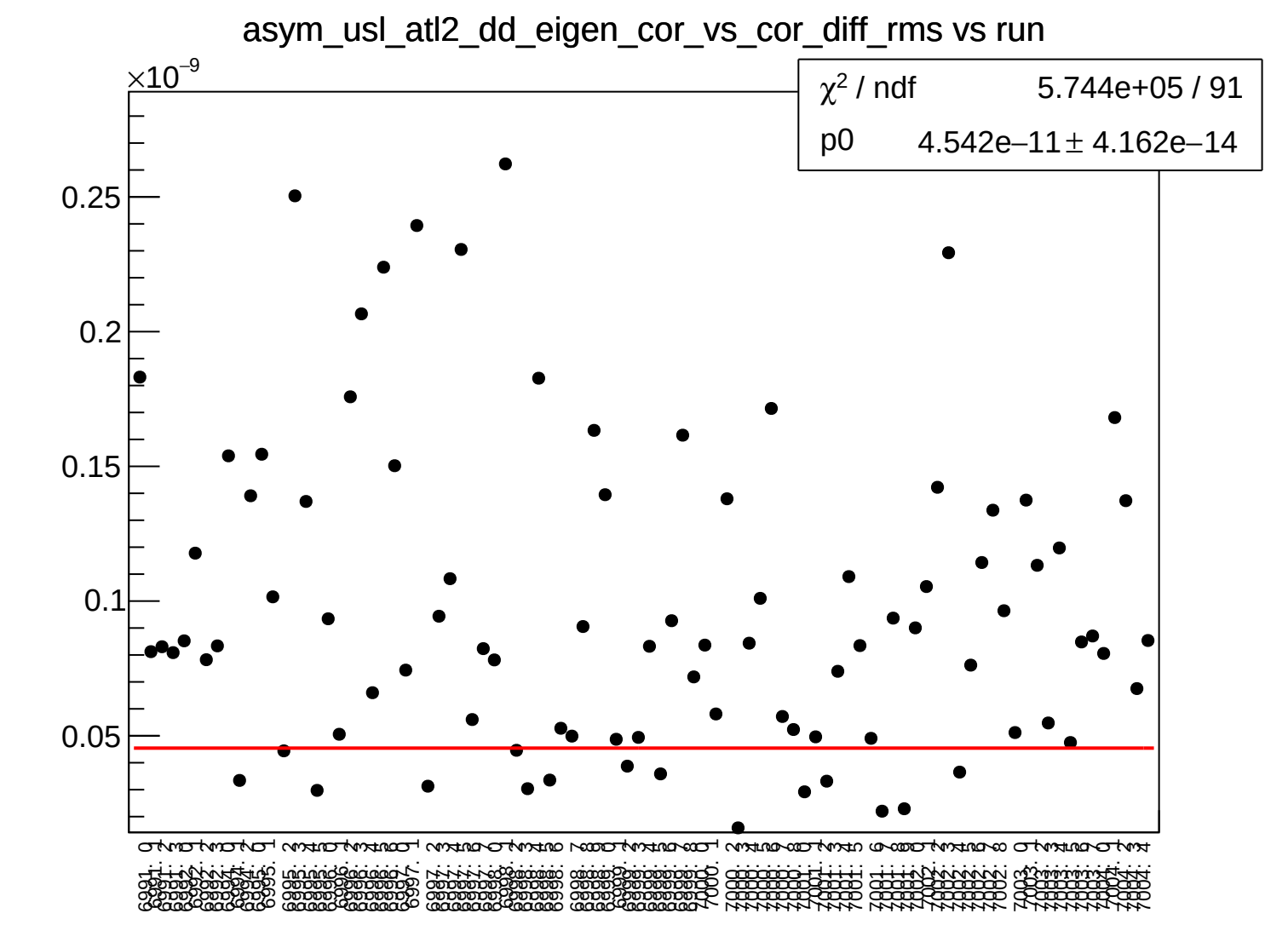

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.099e+04 / 91
p0 342.2 ± 0.2584
450
400
350
300
250

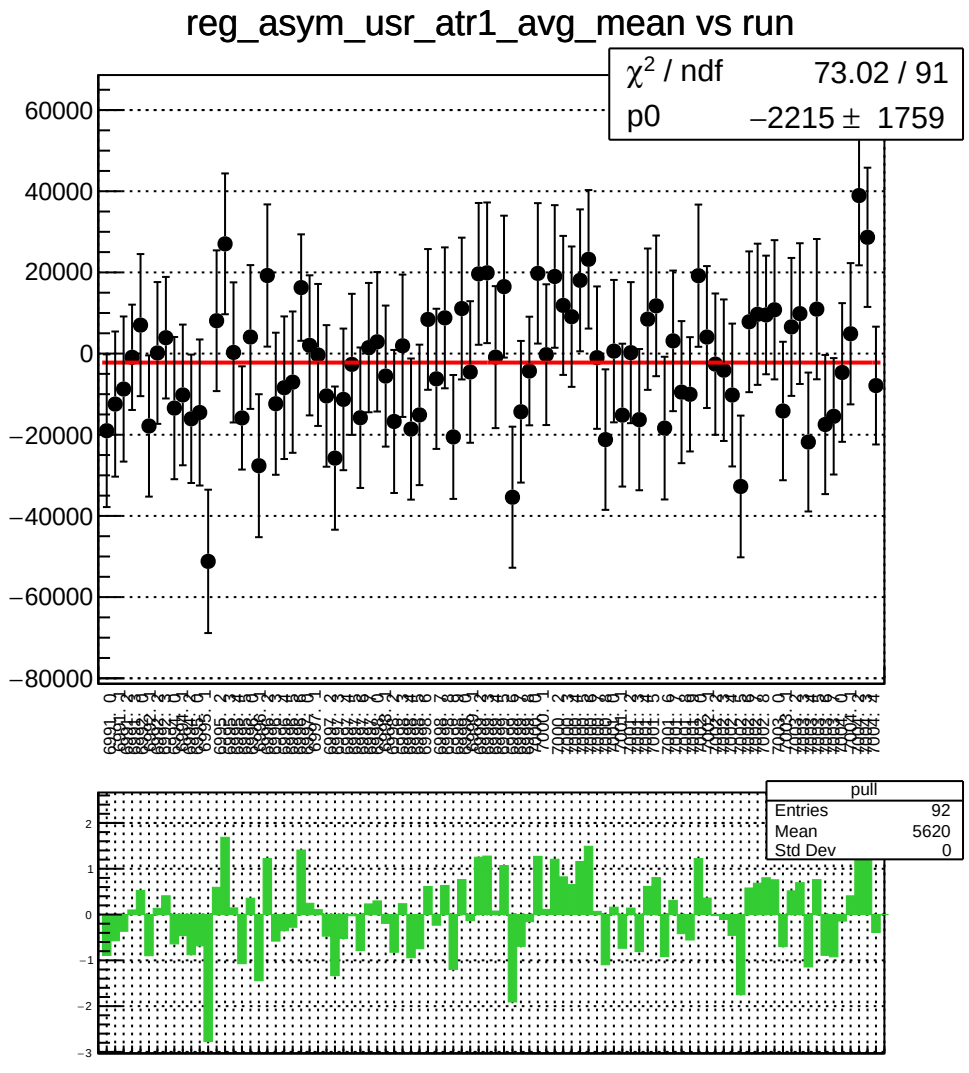

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.1 / 91
p0 0.3859 ± 0.3654
pull
Entries 92
Mean 1811
Std Dev 0
pull1D
Entries 92
Mean 0.003419
Std Dev 1.084

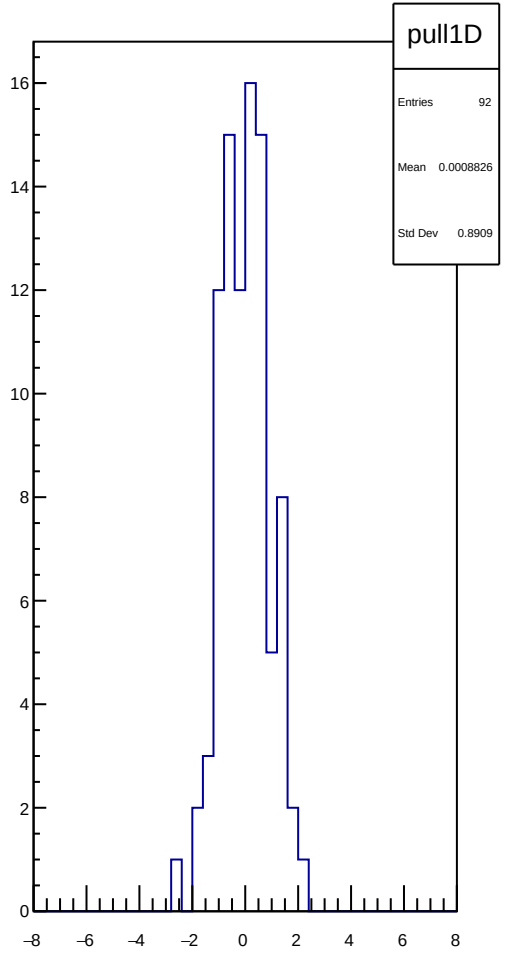

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.099e+04 / 91
p0 342.2 ± 0.2584
450
400
350
300
250

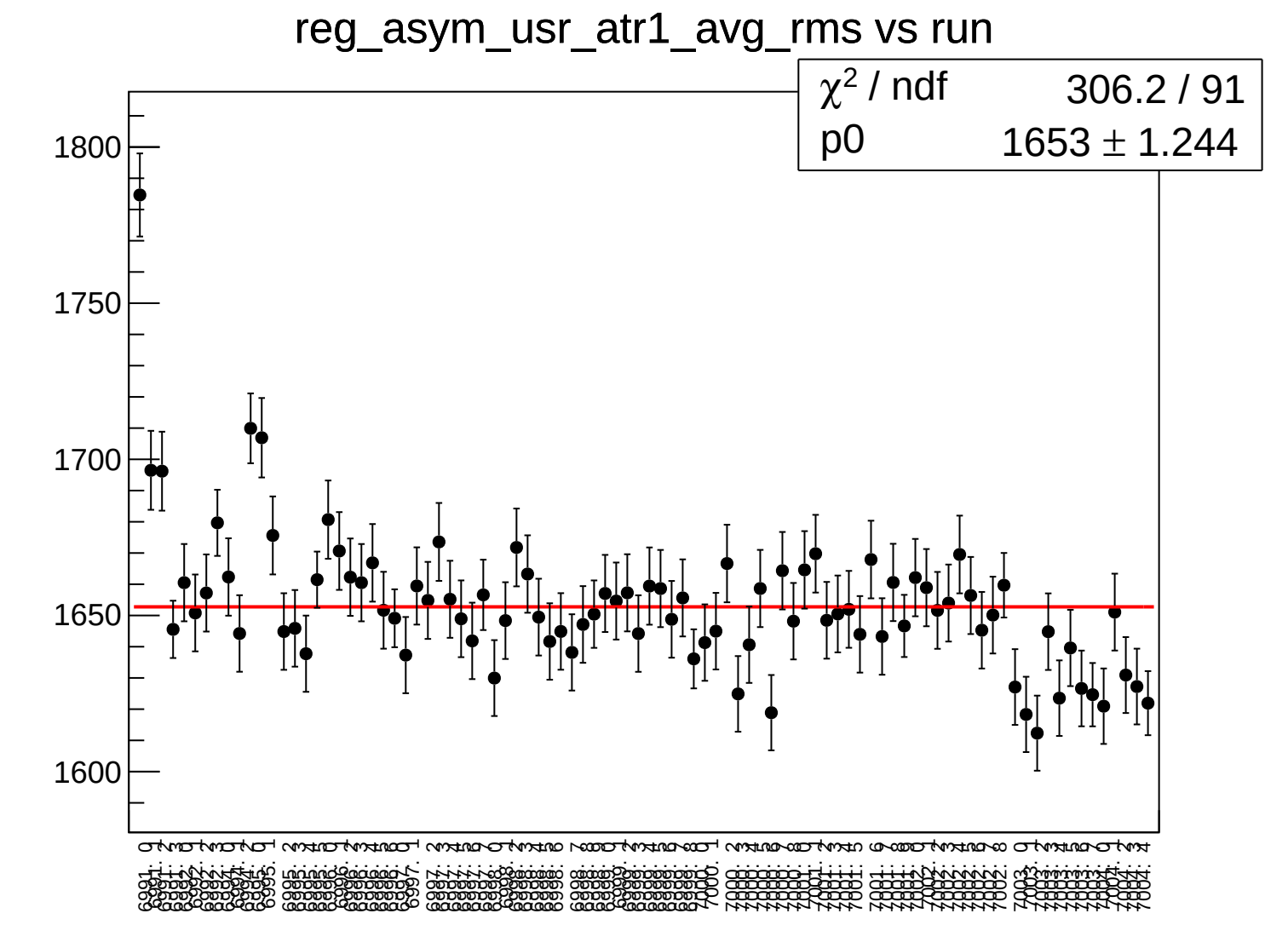

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.88 / 91
p0 −1.227e−13 ± 5.887e−14
pull
Entries 92
Mean −348.9
Std Dev 0

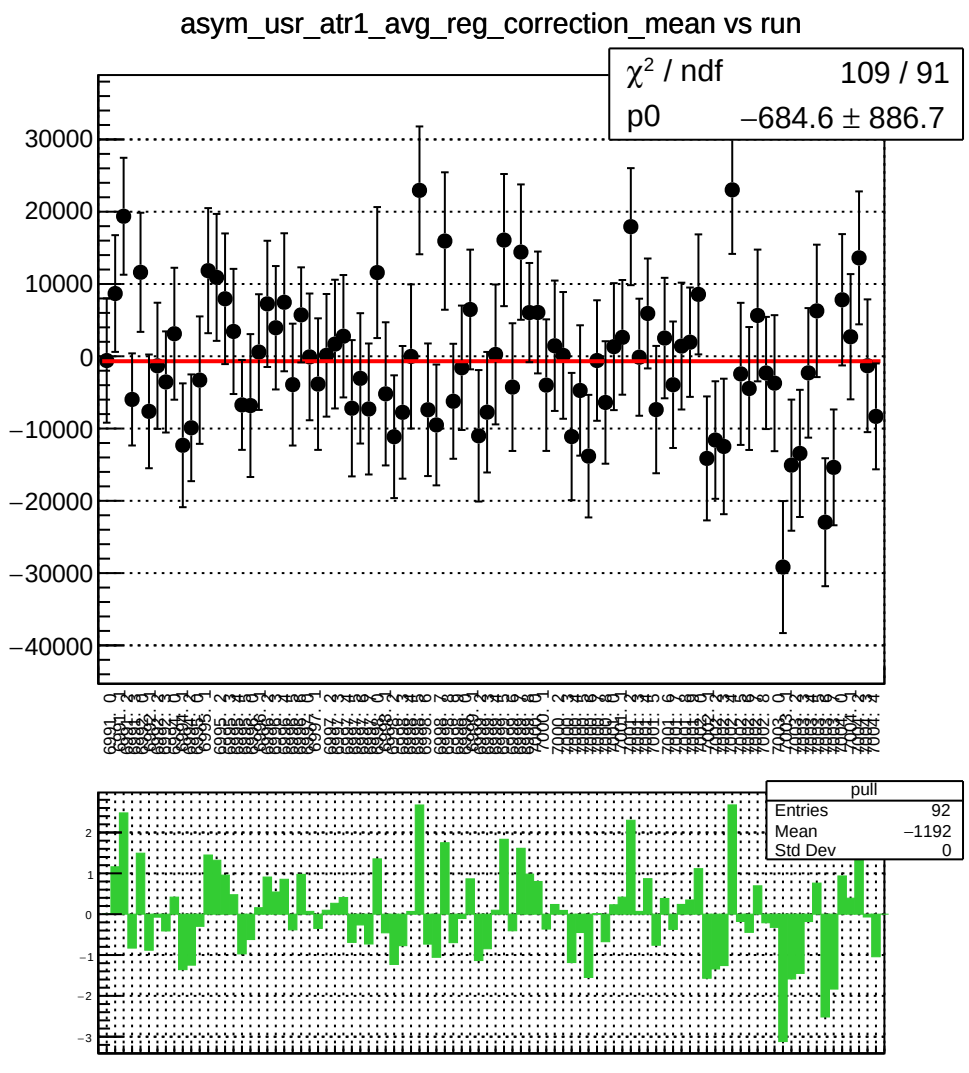

pull1D
Entries 92
Mean 0.003983
Std Dev 0.9662

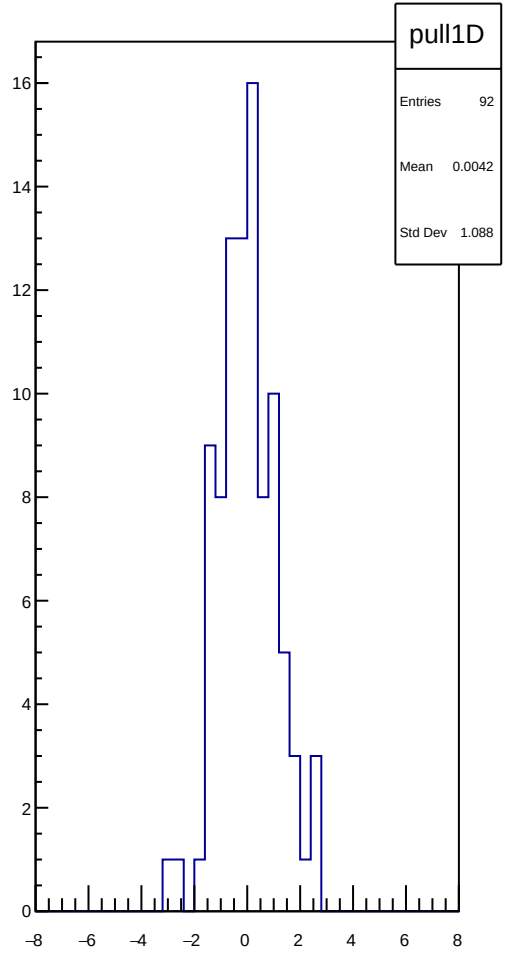

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.744e+05 / 91
p0 4.542e−11 ± 4.162e−14
0.25
0.2
0.15
0.1
0.05

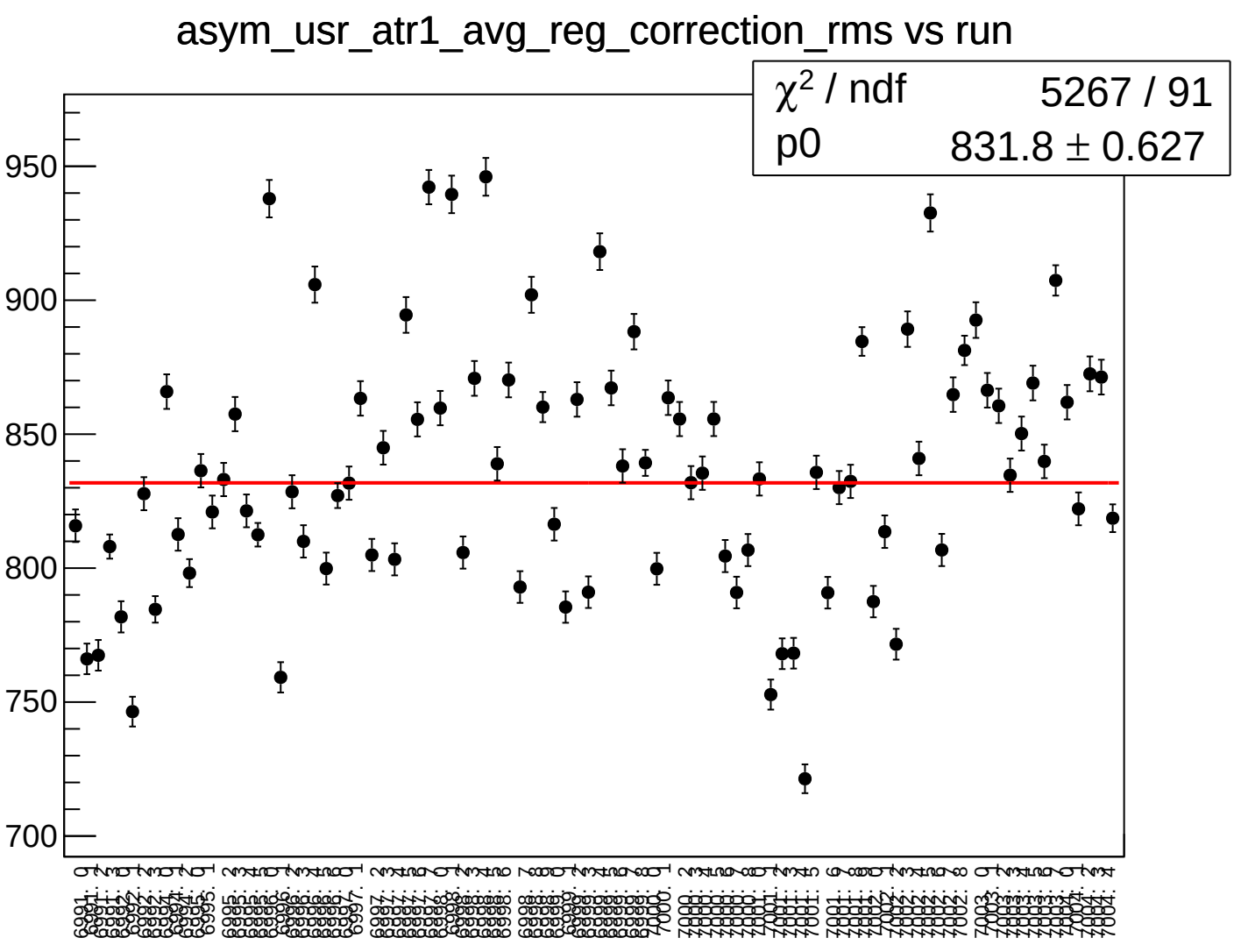

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 73.02 / 91
p0 −2215 ± 1759
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 5620
Std Dev 0
2
1
0
−1
−2
−3

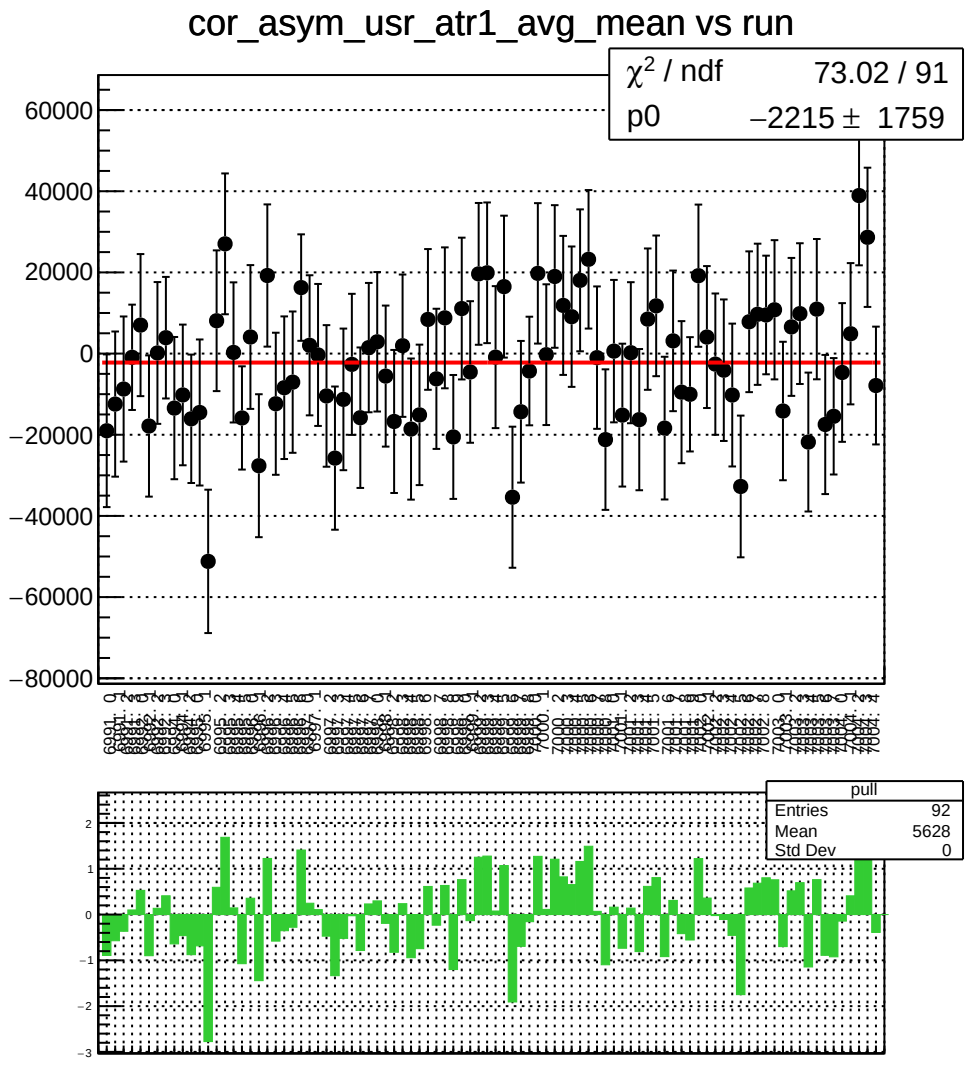

pull1D
Entries 92
Mean 0.0008826
Std Dev 0.8909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

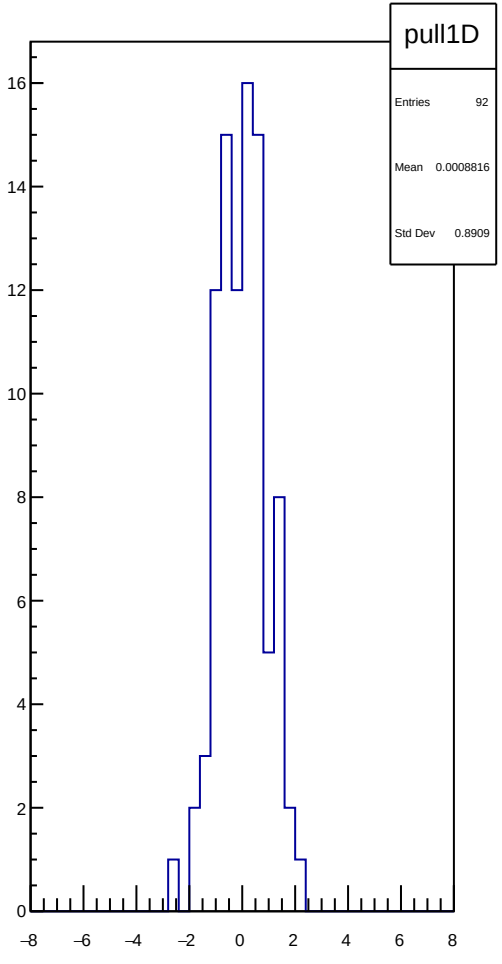

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 306.2 / 91
p0 1653 ± 1.244
1800
1750
1700
1650
1600

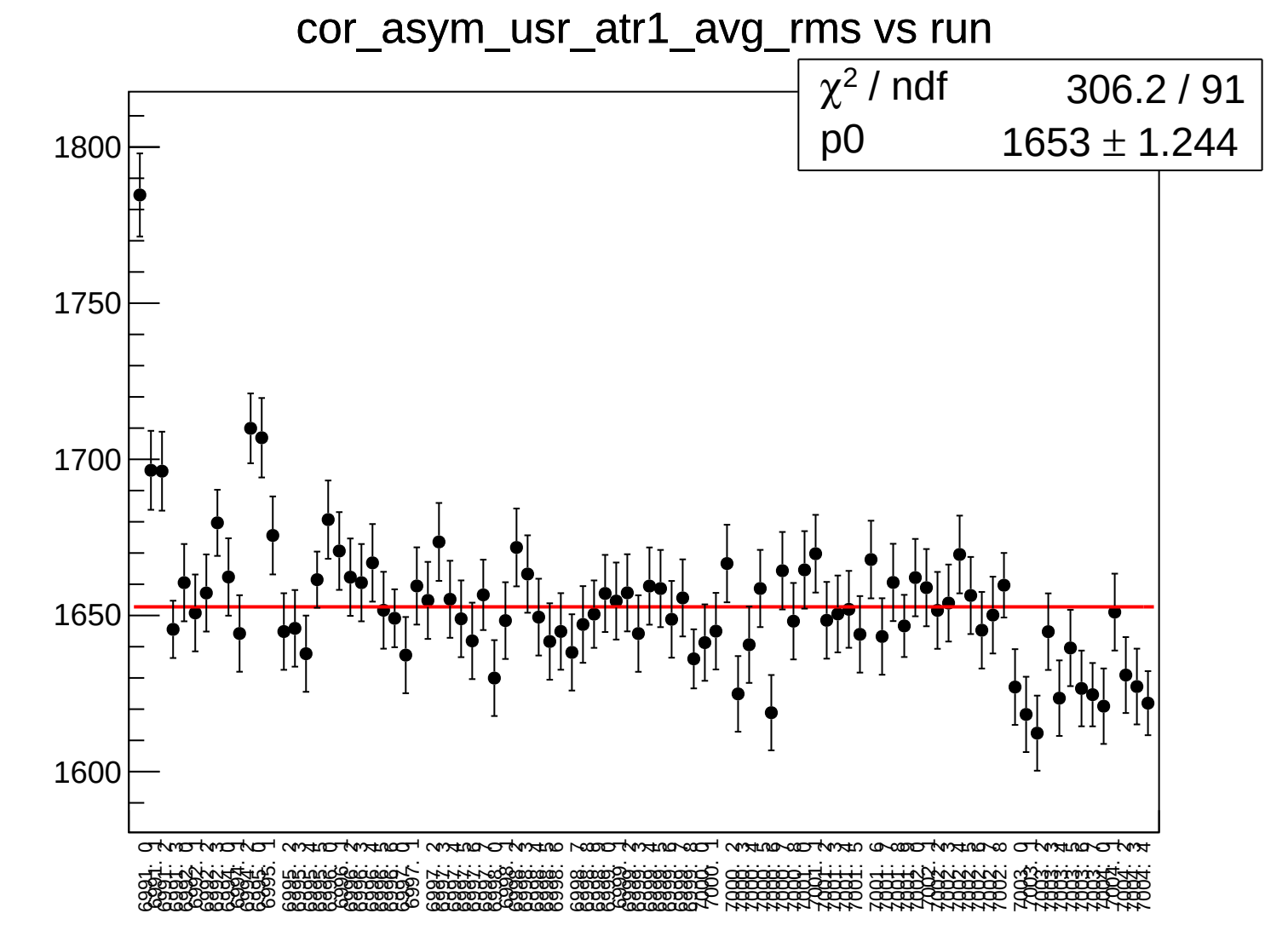

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 109 / 91
p0 −684.6 ± 886.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1192
Std Dev 0
2
1
0
−1
−2
−3

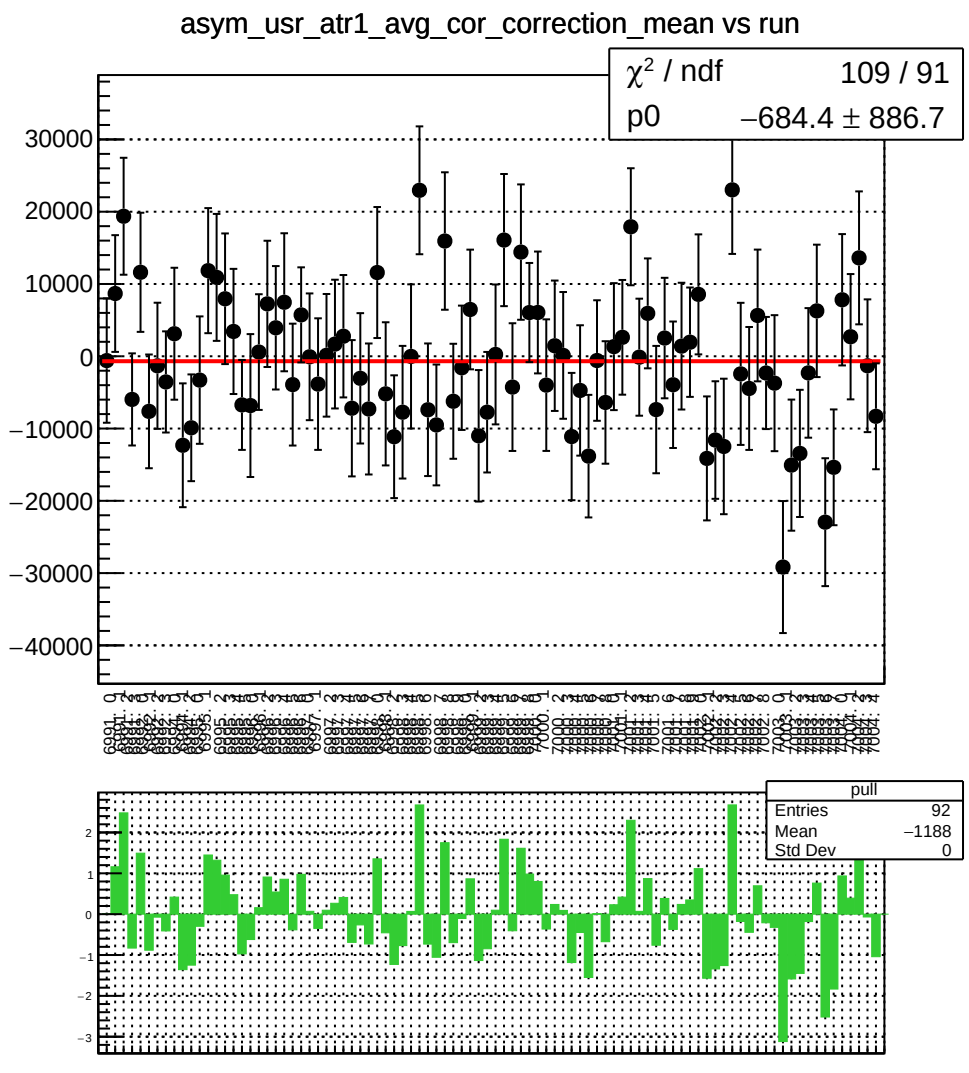

pull1D
Entries 92
Mean 0.0042
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

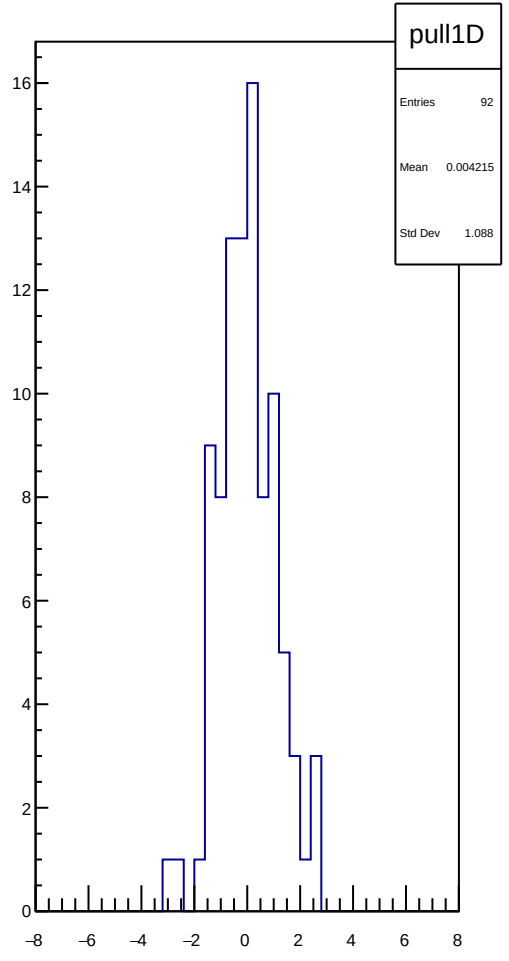

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 5267 / 91
p0 831.8 ± 0.627
950
900
850
800
750
700

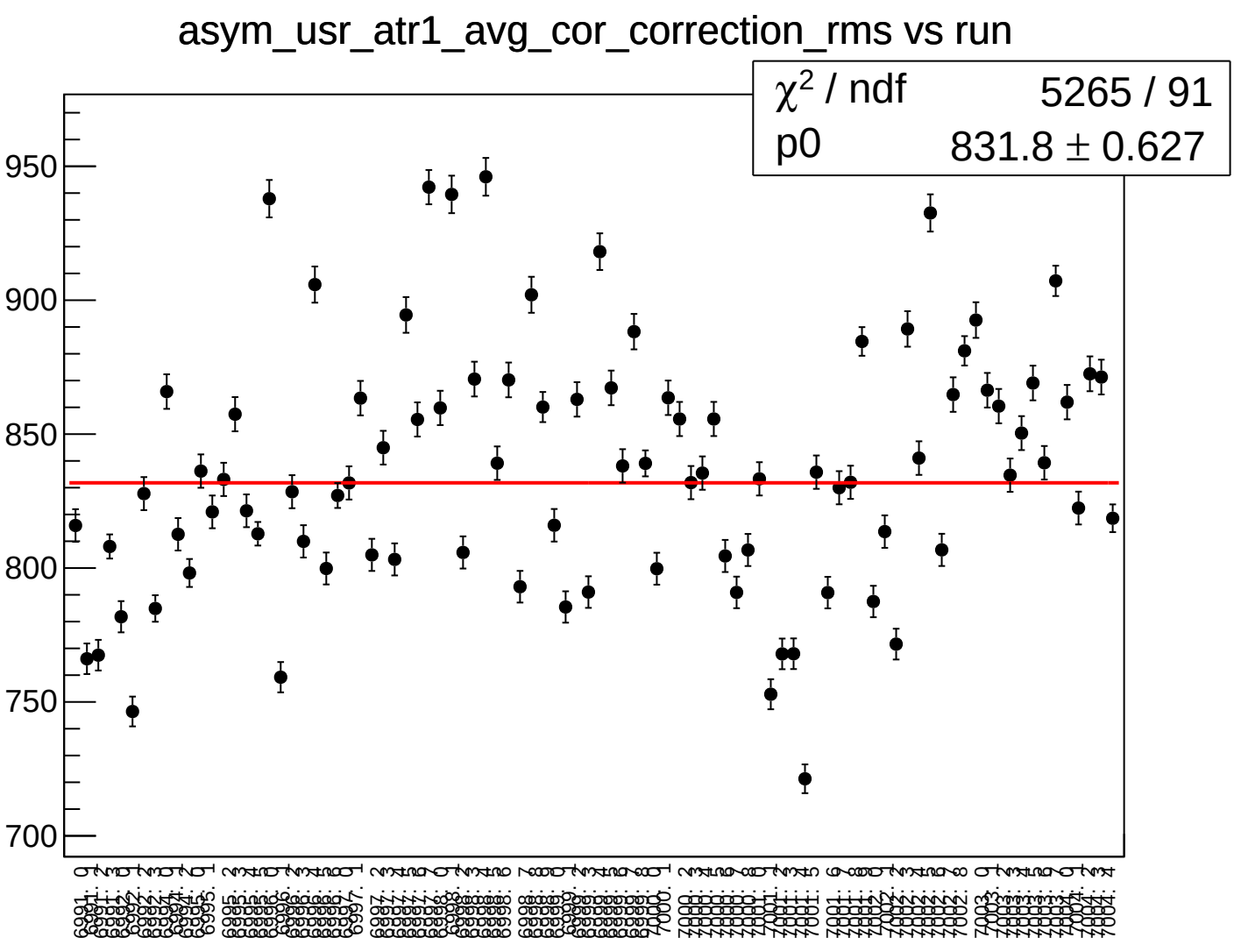

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 73.02 / 91
p0 −2215 ± 1759
pull
Entries 92
Mean 5628
Std Dev 0

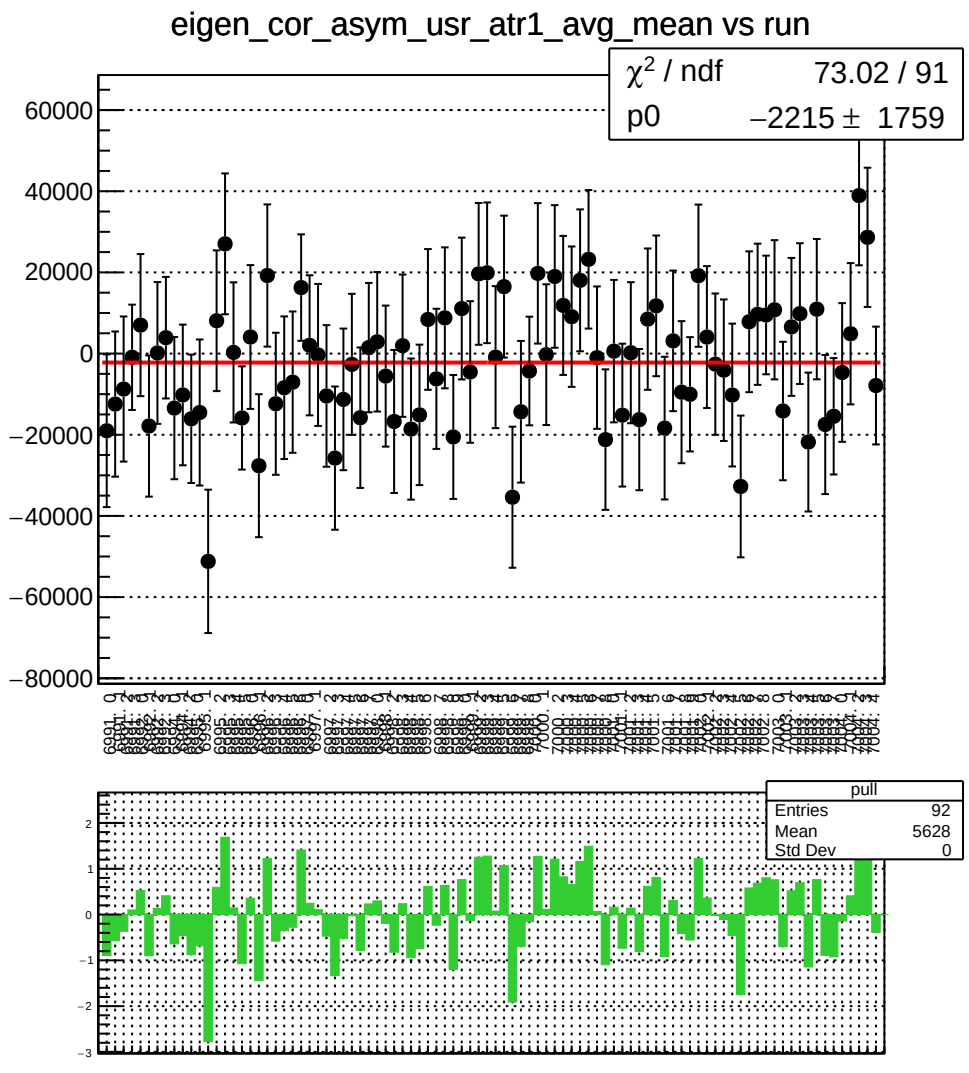

pull1D
Entries 92
Mean 0.0008816
Std Dev 0.8909

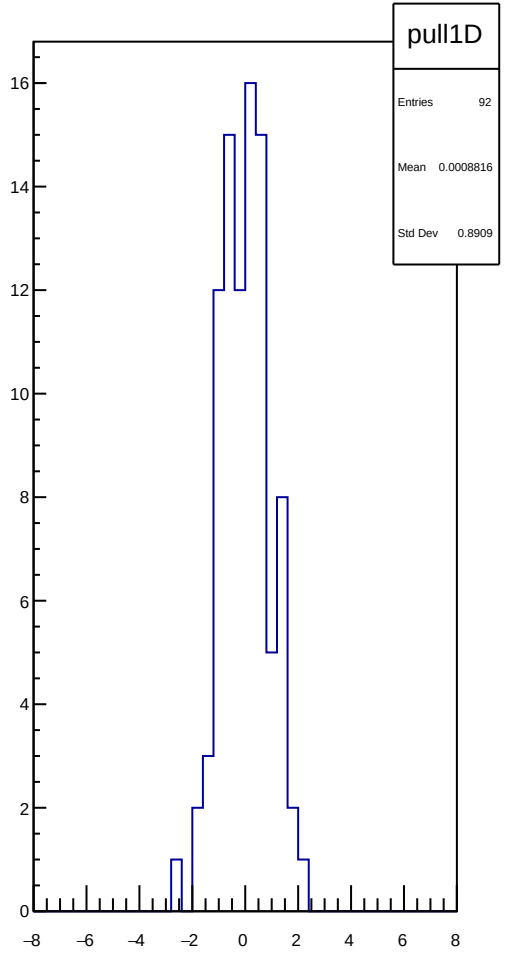

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 306.2 / 91
p0 1653 ± 1.244
1800
1750
1700
1650
1600

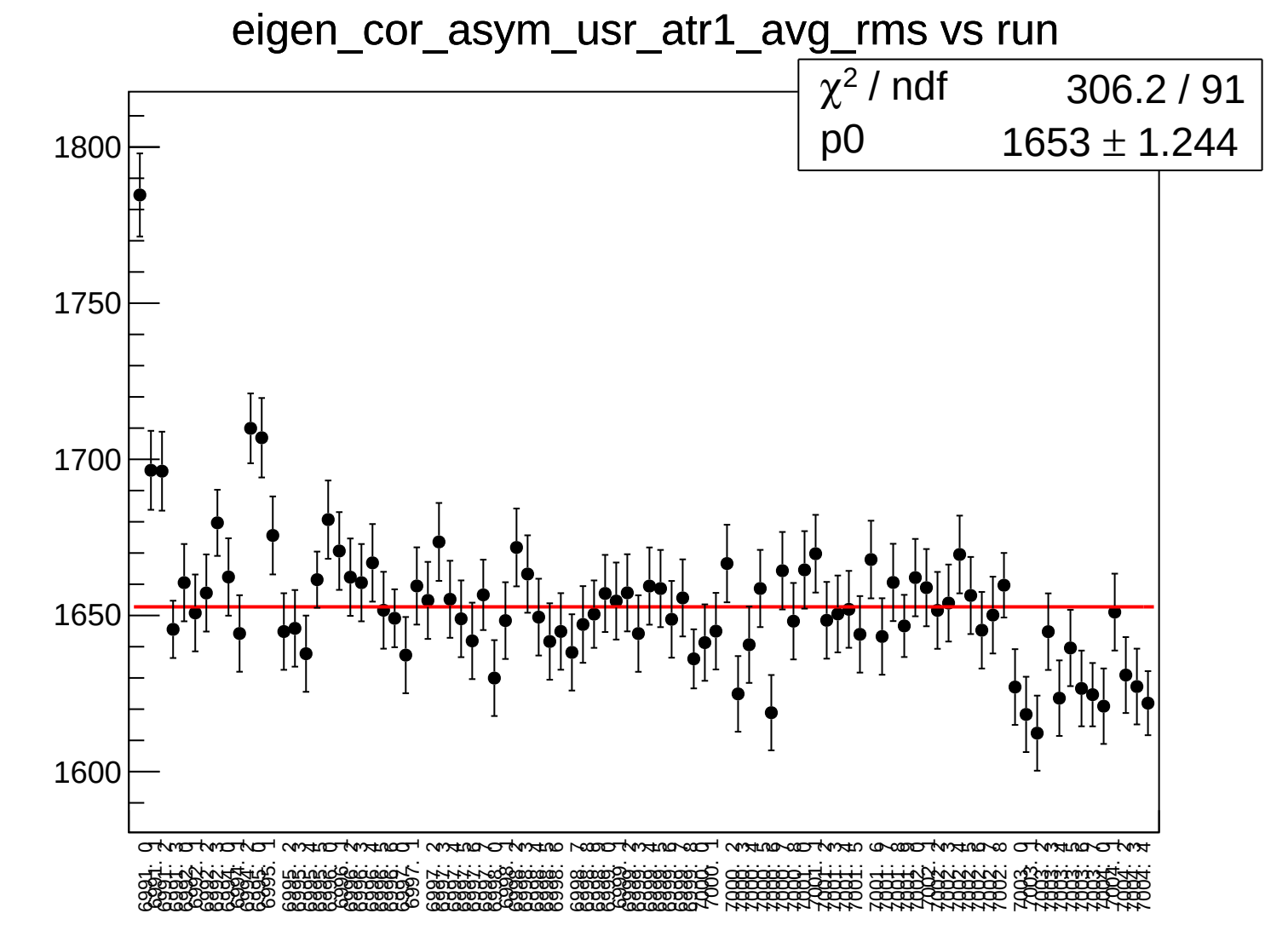

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 109 / 91
p0 −684.4 ± 886.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1188
Std Dev 0
2
1
0
−1
−2
−3

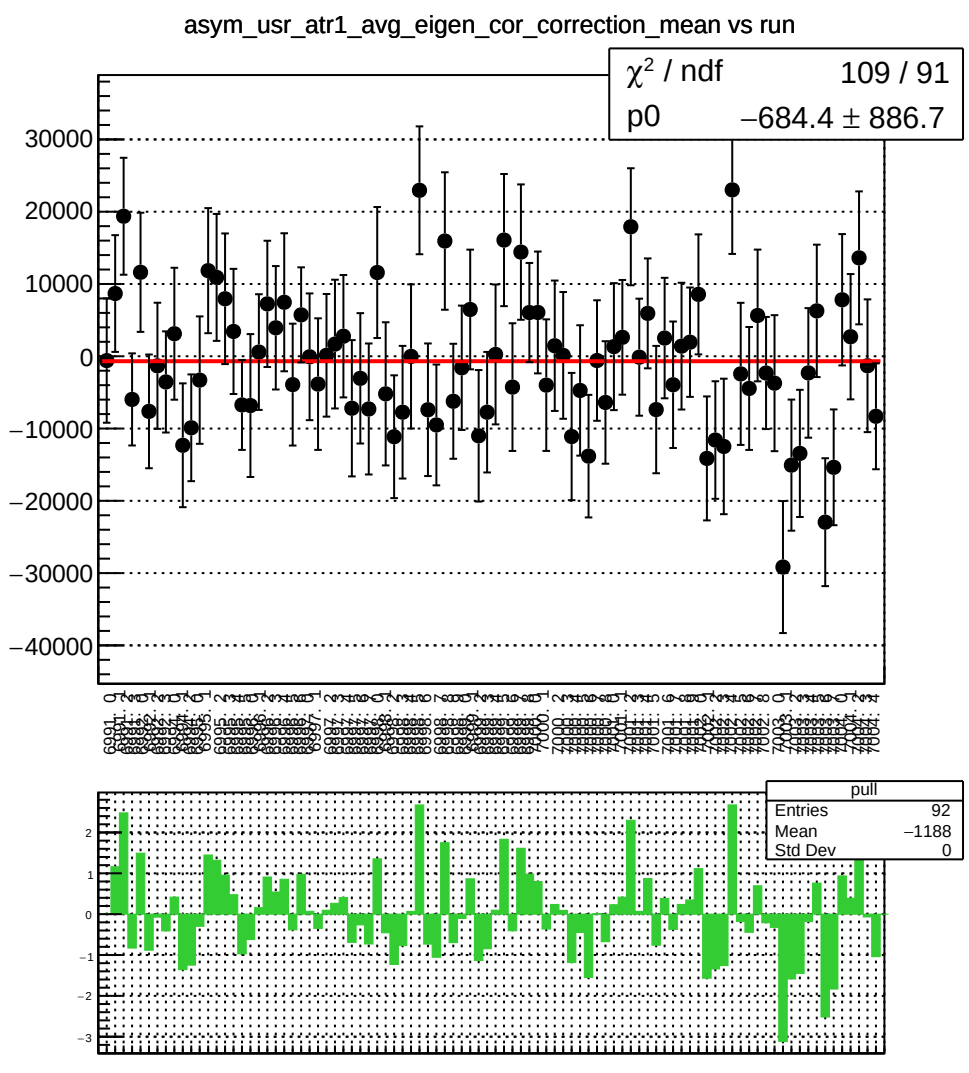

pull1D
Entries 92
Mean 0.004215
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

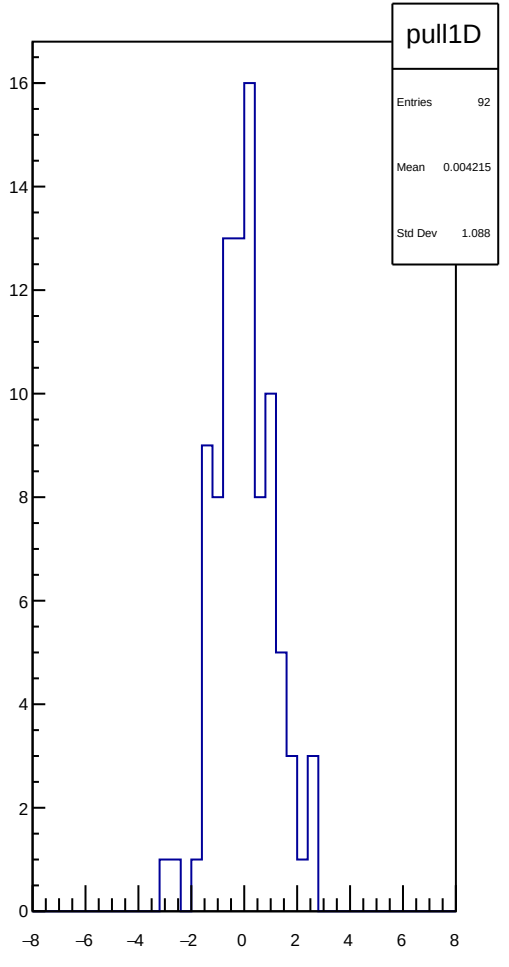

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 5265 / 91
p0 831.8 ± 0.627
950
900
850
800
750
700

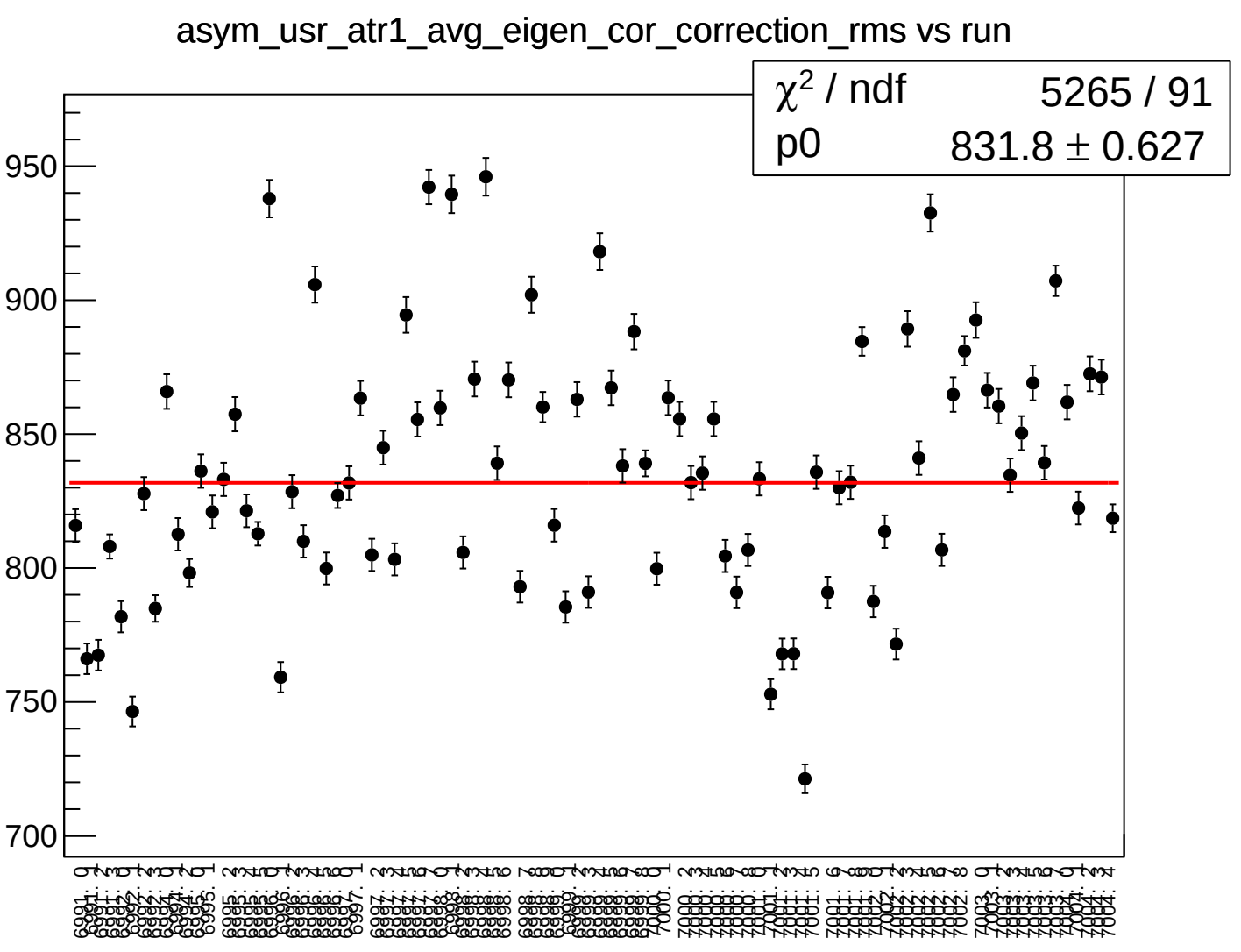

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 73.02 / 91
p0 −2215 ± 1759
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 5628
Std Dev 0
2
1
0
−1
−2
−3

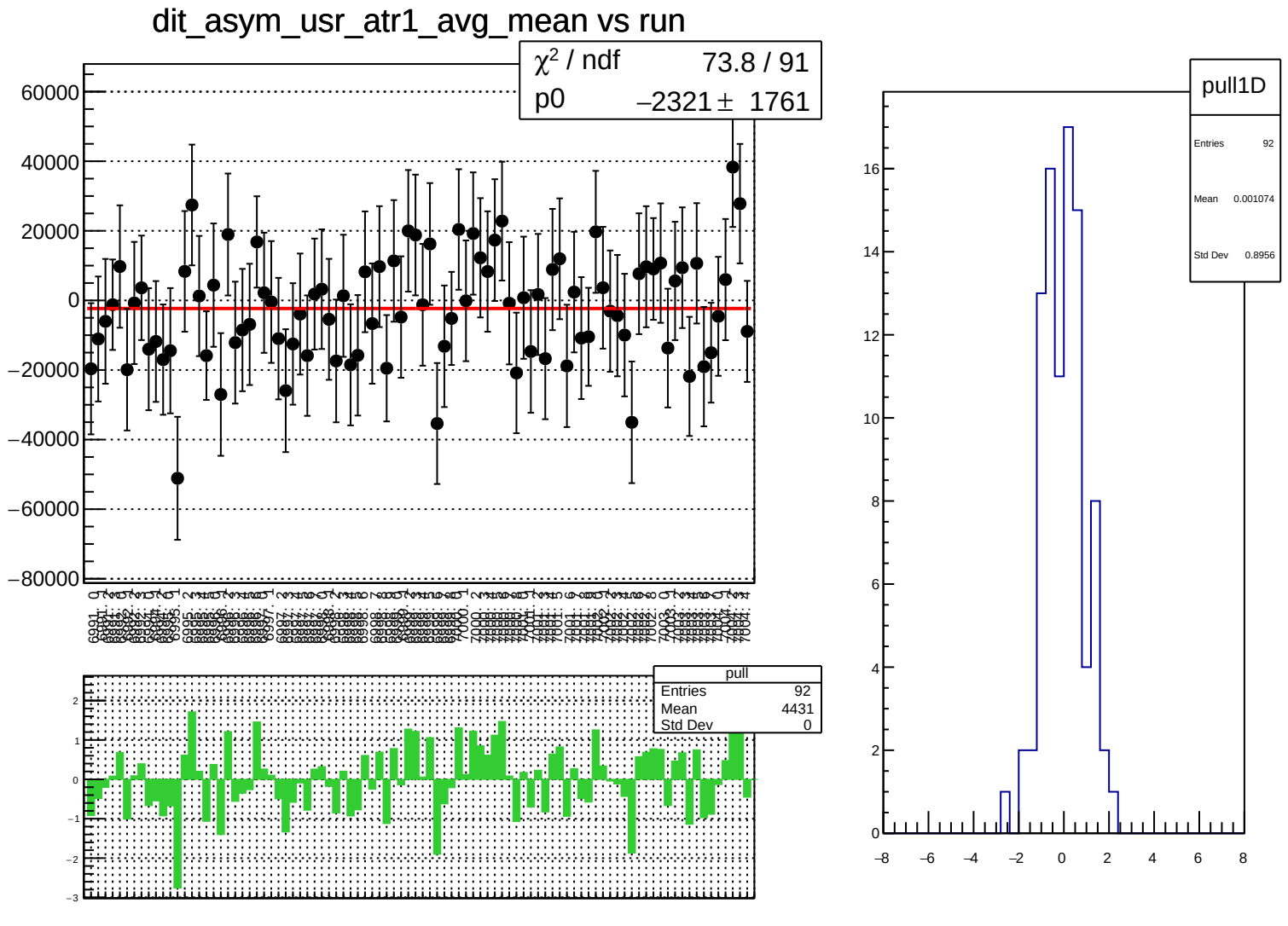

pull1D
Entries 92
Mean 0.0008816
Std Dev 0.8909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

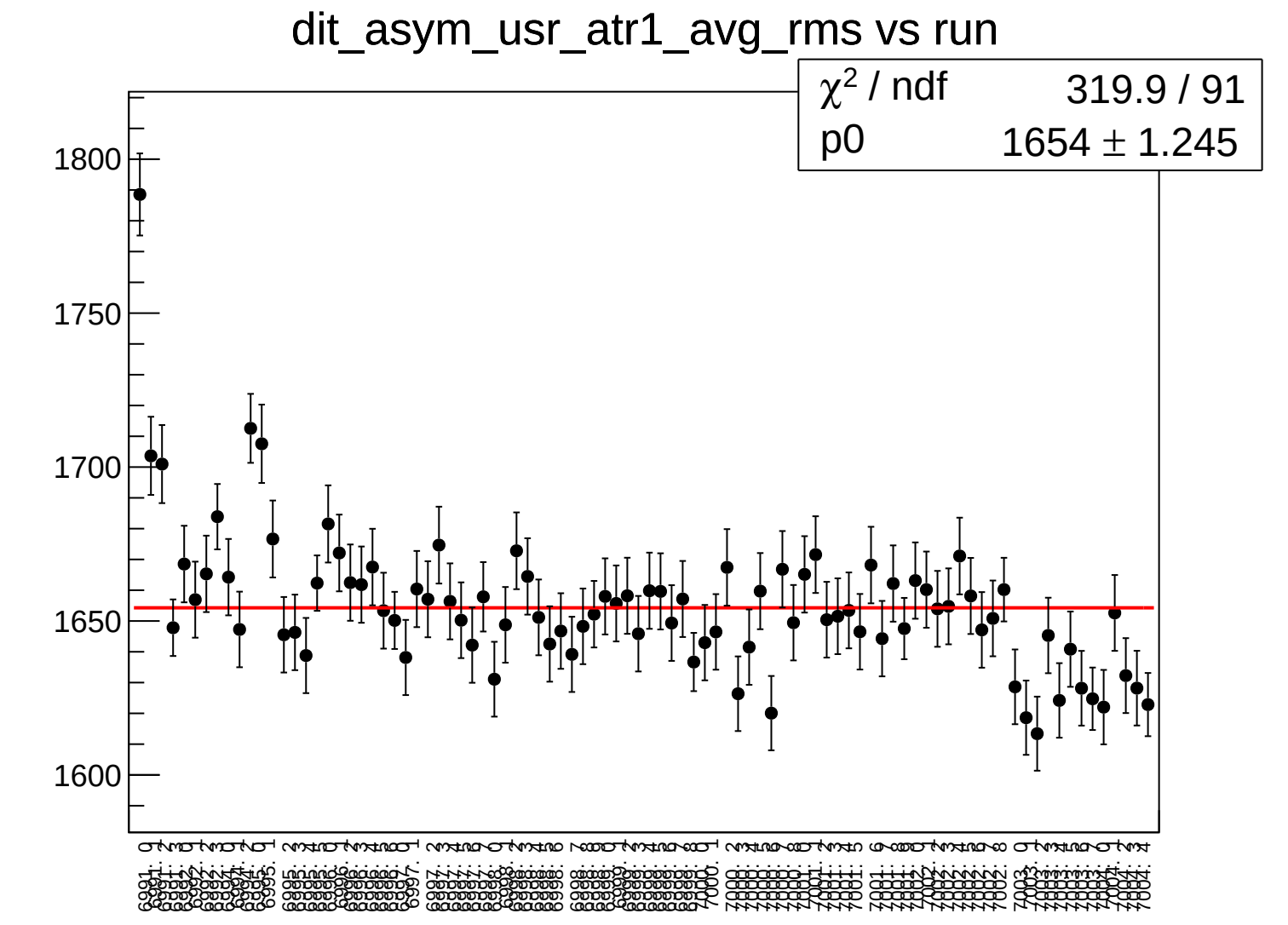

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 306.2 / 91
p0 1653 ± 1.244
1800
1750
1700
1650
1600

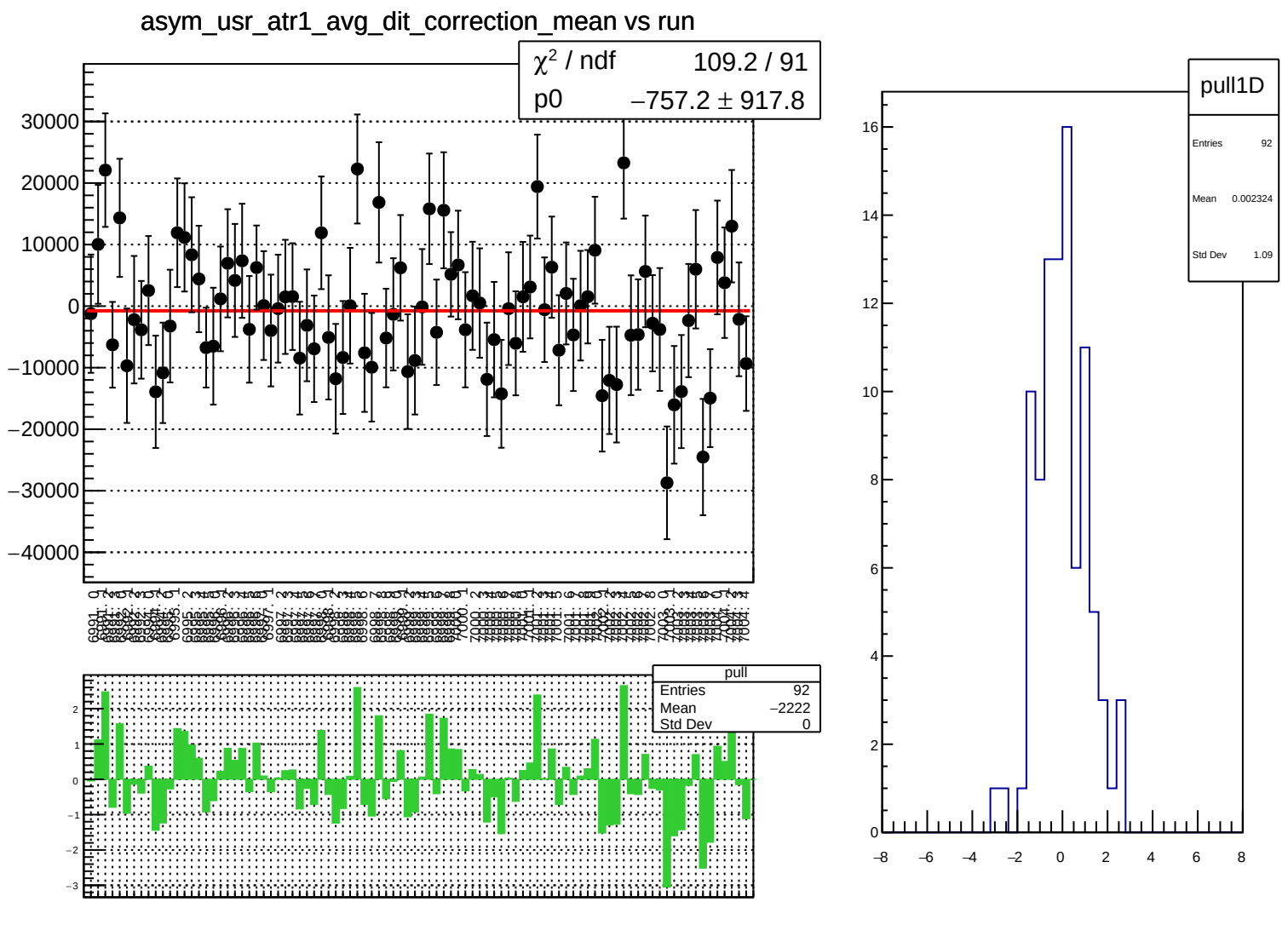

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 109 / 91
p0 −684.4 ± 886.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1188
Std Dev 0
2
1
0
−1
−2
−3

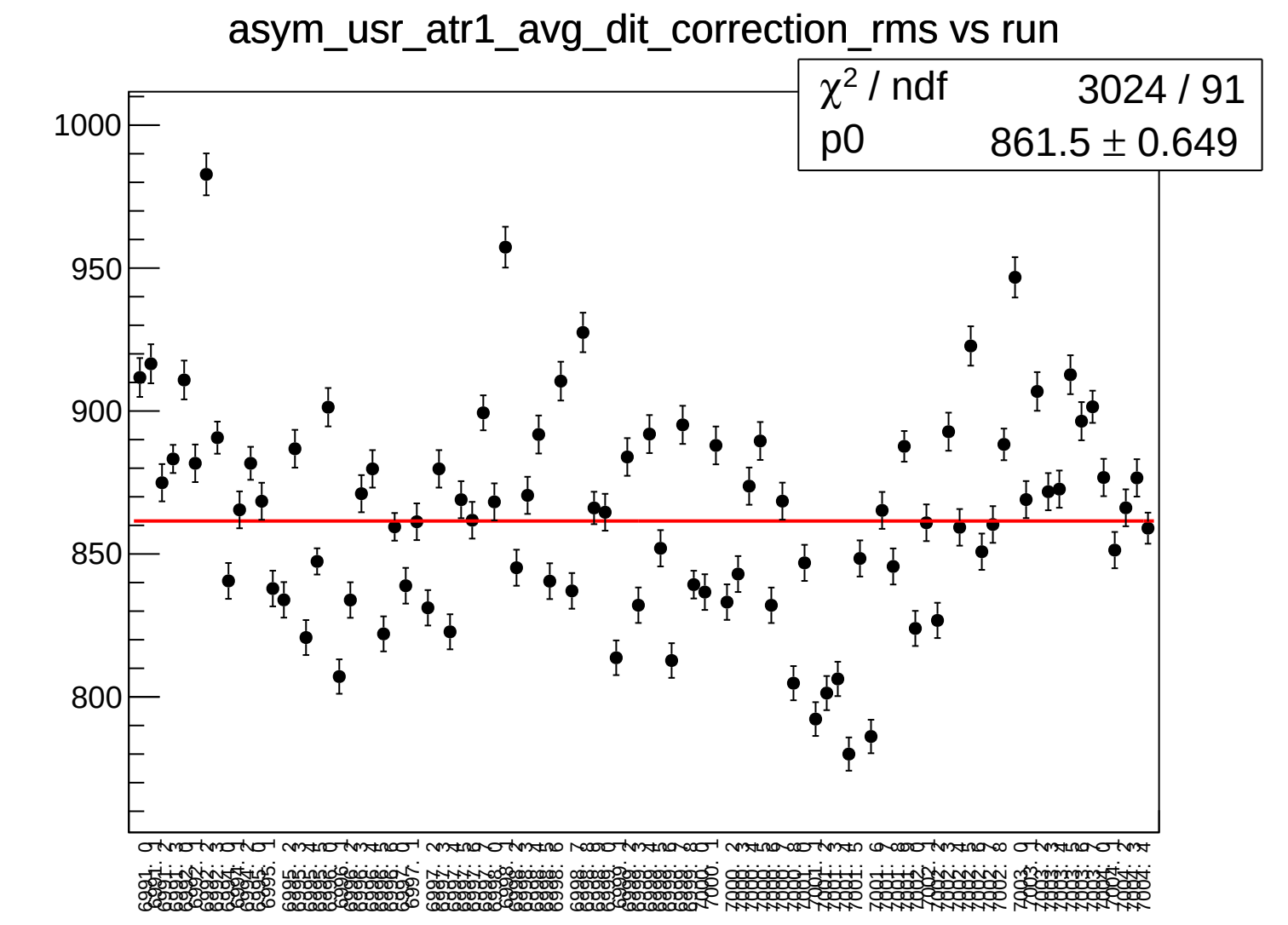

pull1D
Entries 92
Mean 0.004215
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

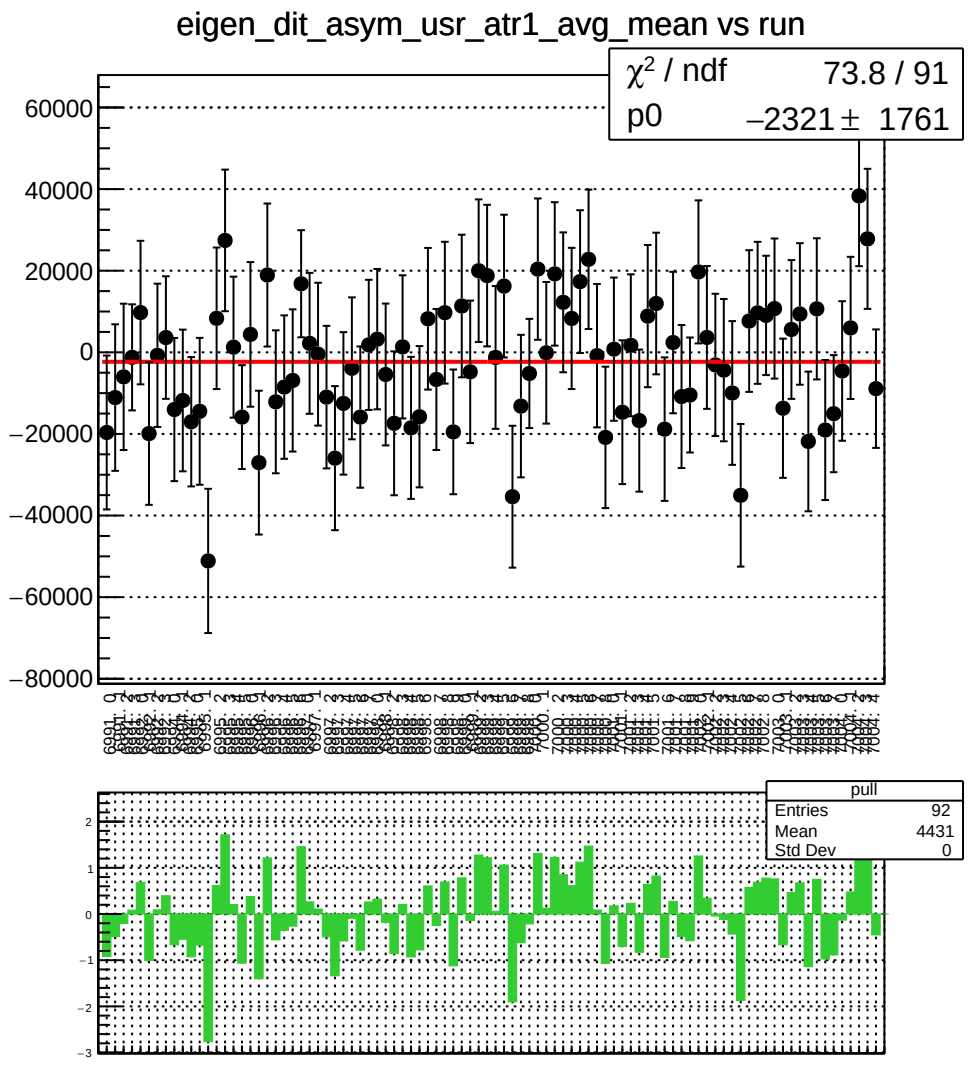

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 5265 / 91
p0 831.8 ± 0.627
950
900
850
800
750
700

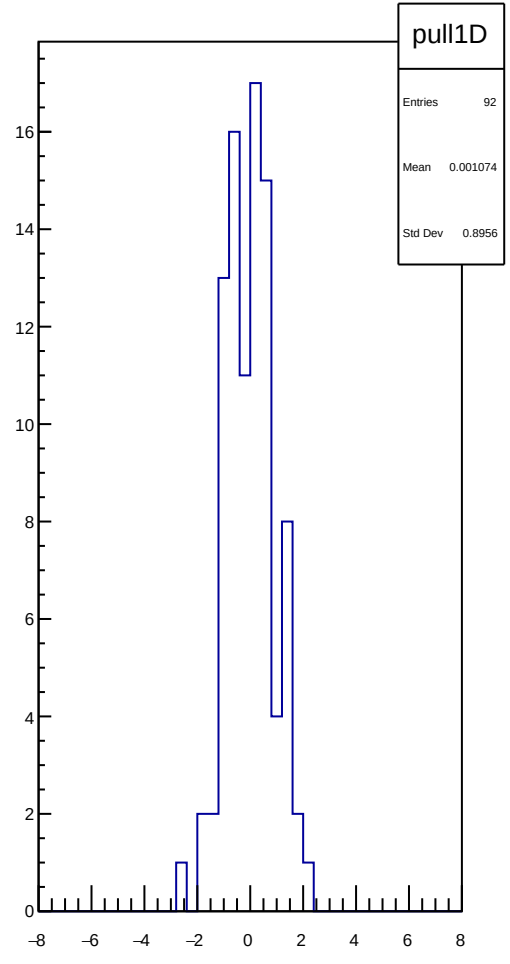

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 73.8 / 91
p0 −2321 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 4431
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.001074
Std Dev 0.8956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

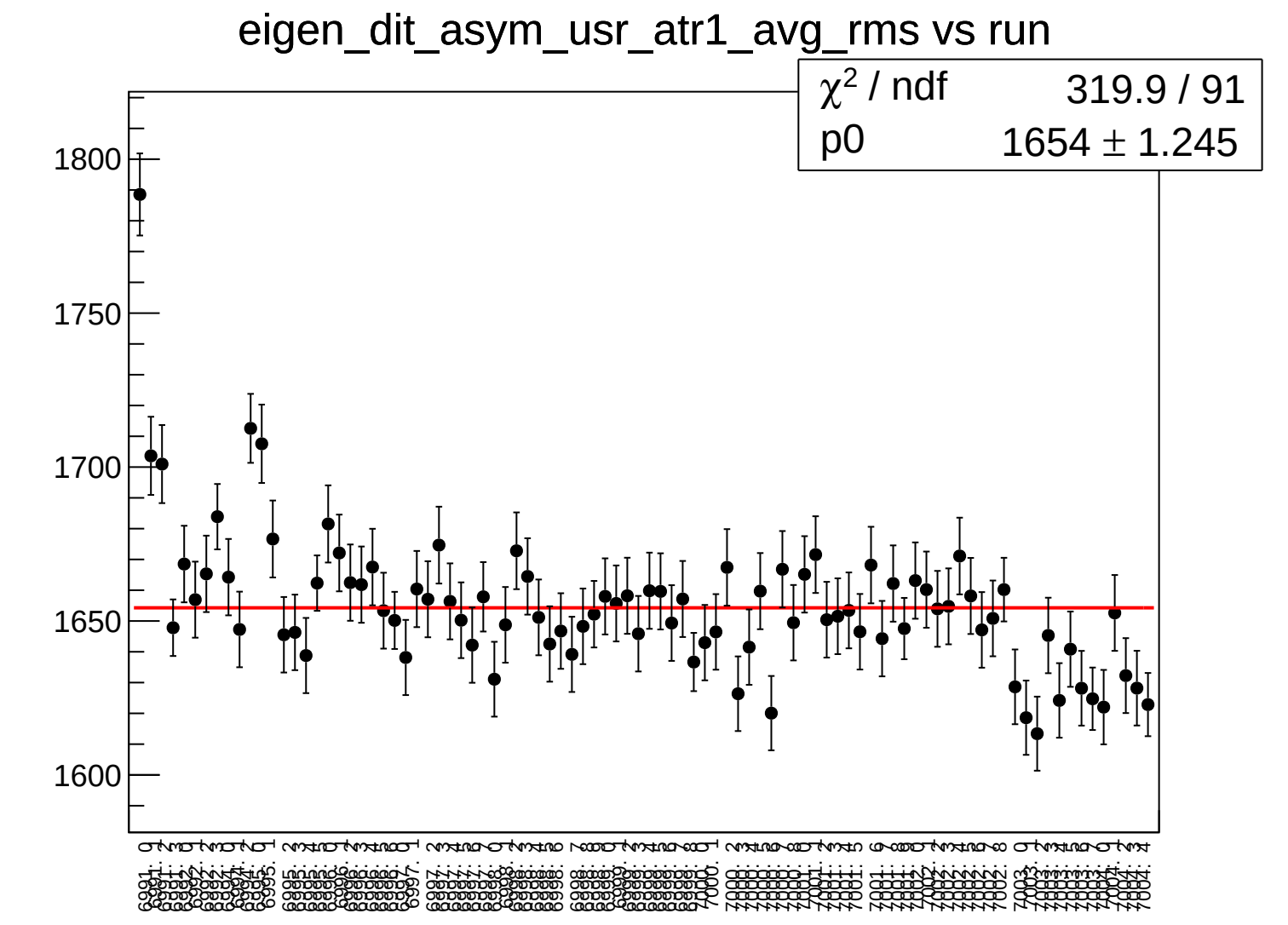

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 319.9 / 91
p0 1654 ± 1.245
1800
1750
1700
1650
1600

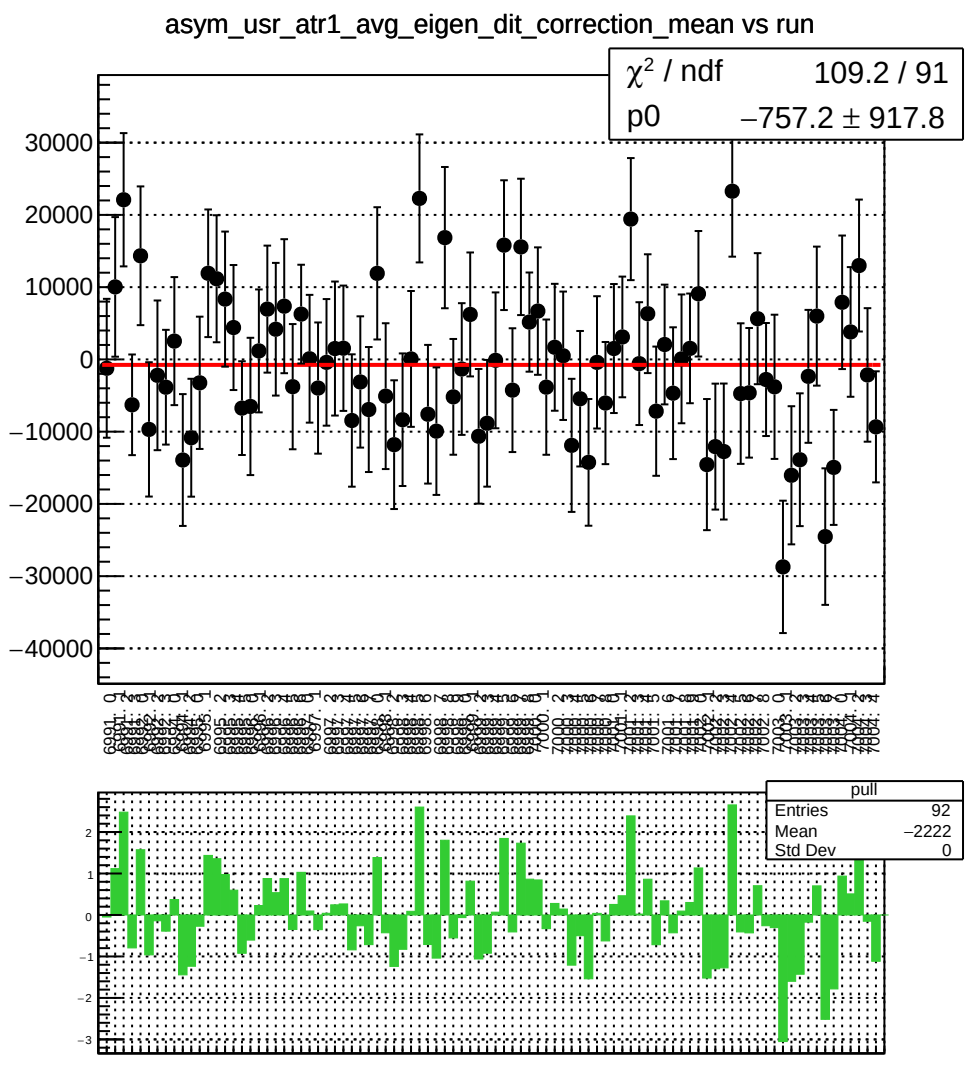

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 109.2 / 91
p0 −757.2 ± 917.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −2222
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.002324
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

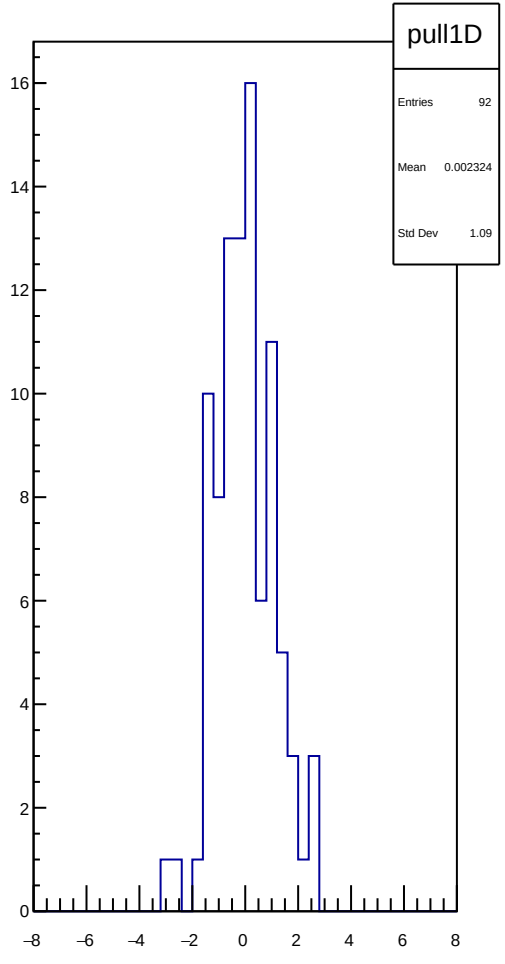

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 3024 / 91
p0 861.5 ± 0.649
1000
950
900
850
800

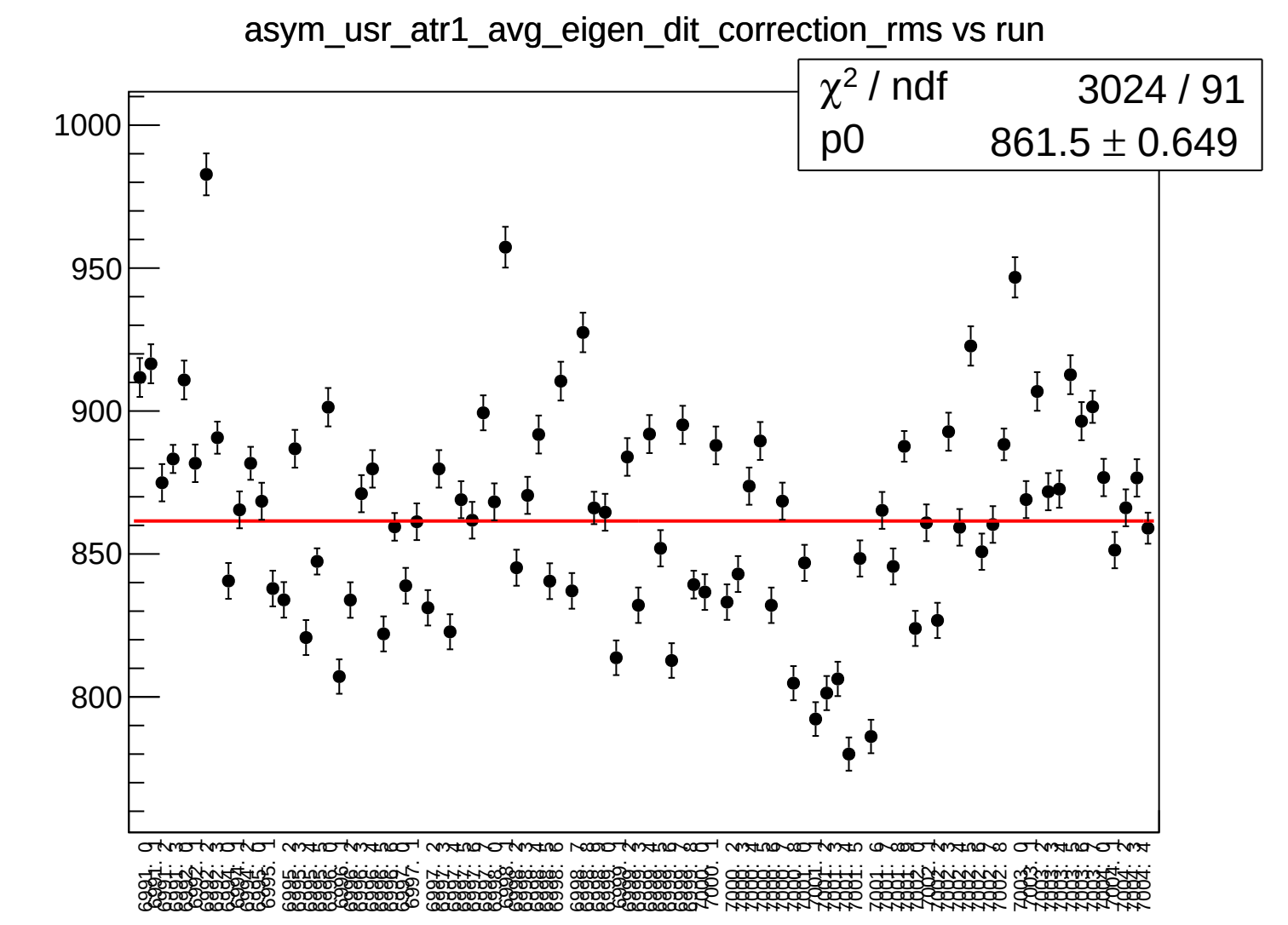

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 73.8 / 91
p0 −2321 ± 1761
pull
Entries 92
Mean 4431
Std Dev 0

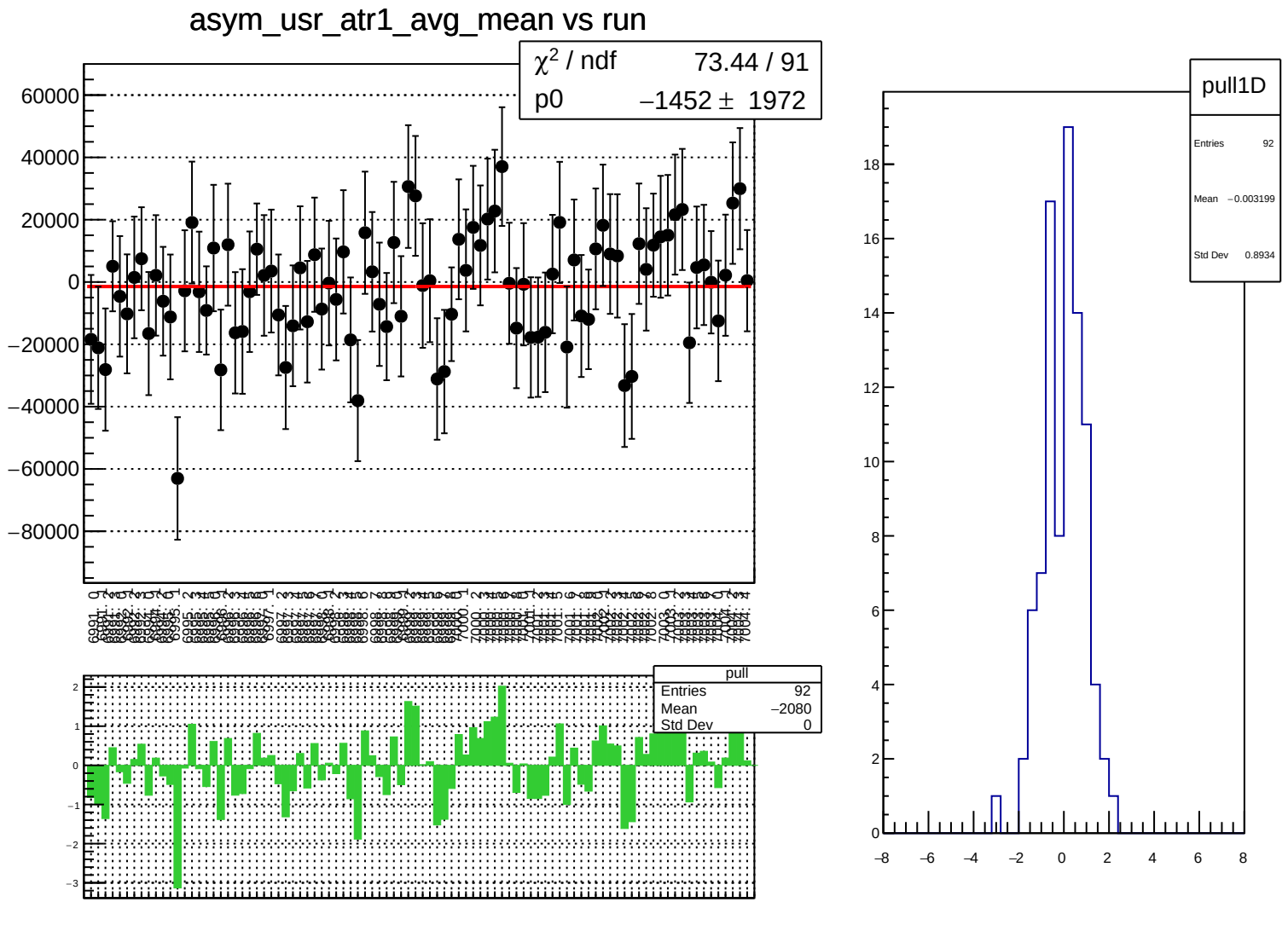

pull1D
Entries 92
Mean 0.001074
Std Dev 0.8956

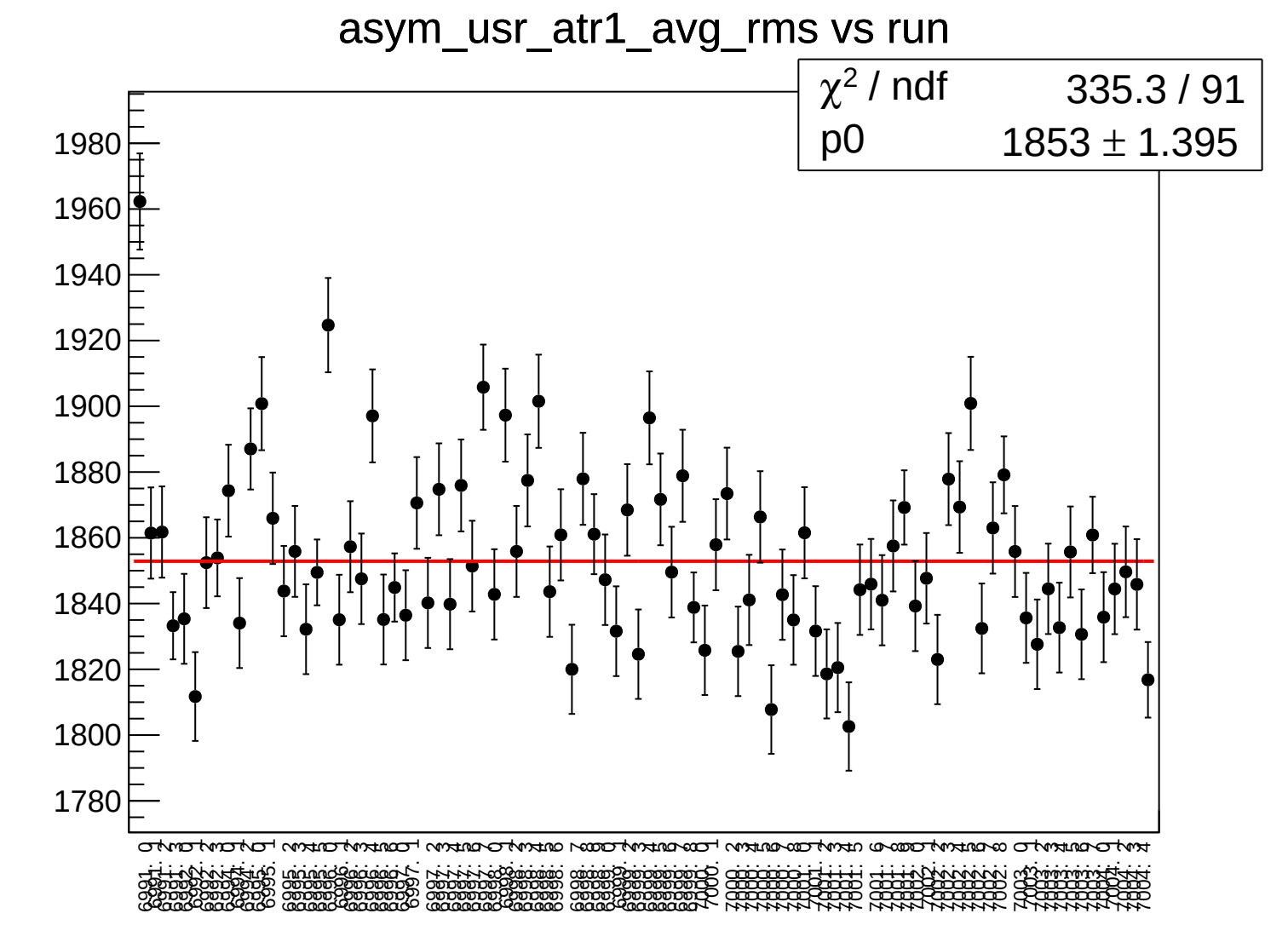

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 319.9 / 91
p0 1654 ± 1.245
1800
1750
1700
1650
1600

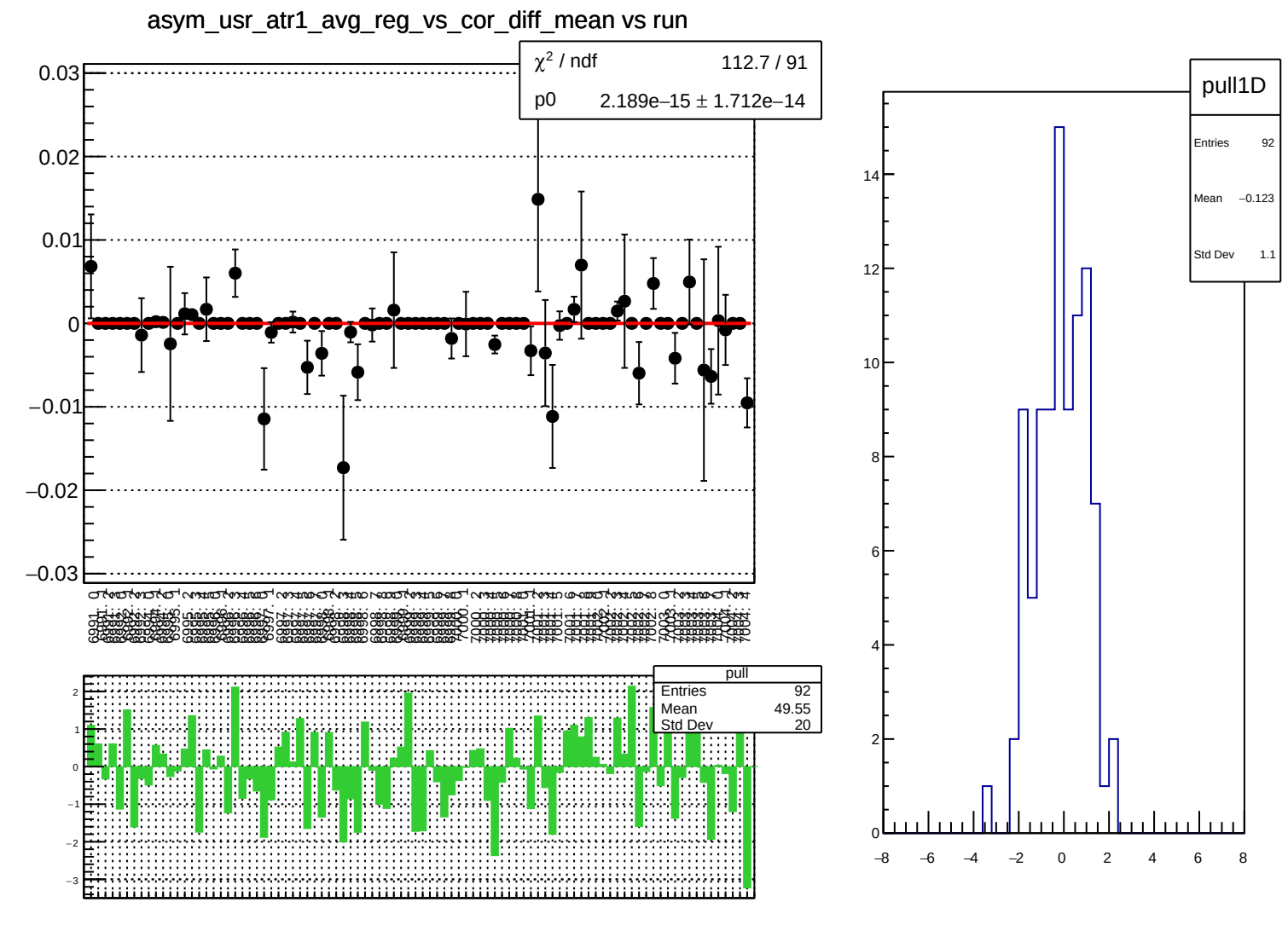

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 109.2 / 91
p0 −757.2 ± 917.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −2222
Std Dev 0
2
1
0
−1
−2
−3

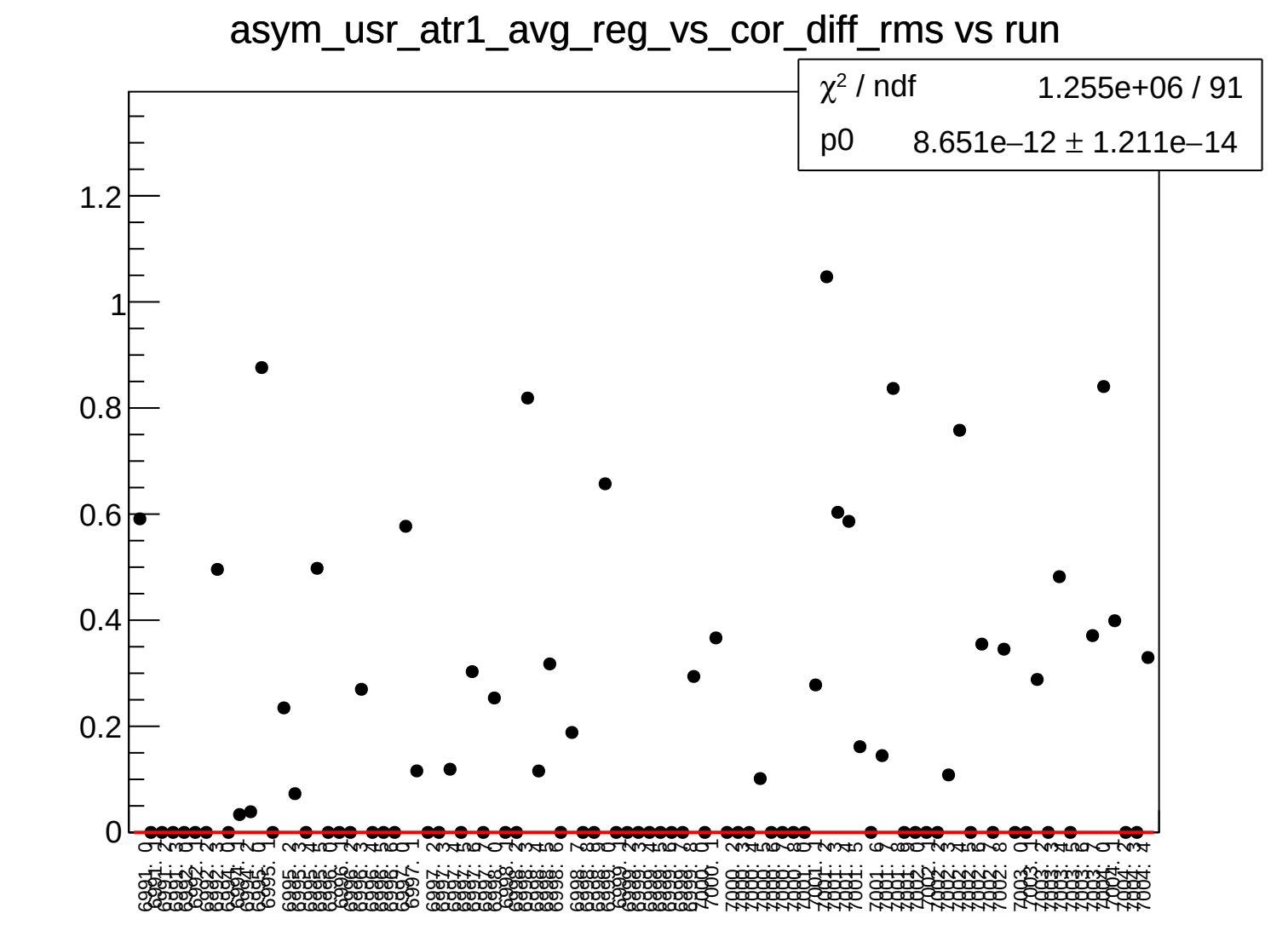

pull1D
Entries 92
Mean 0.002324
Std Dev 1.09
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

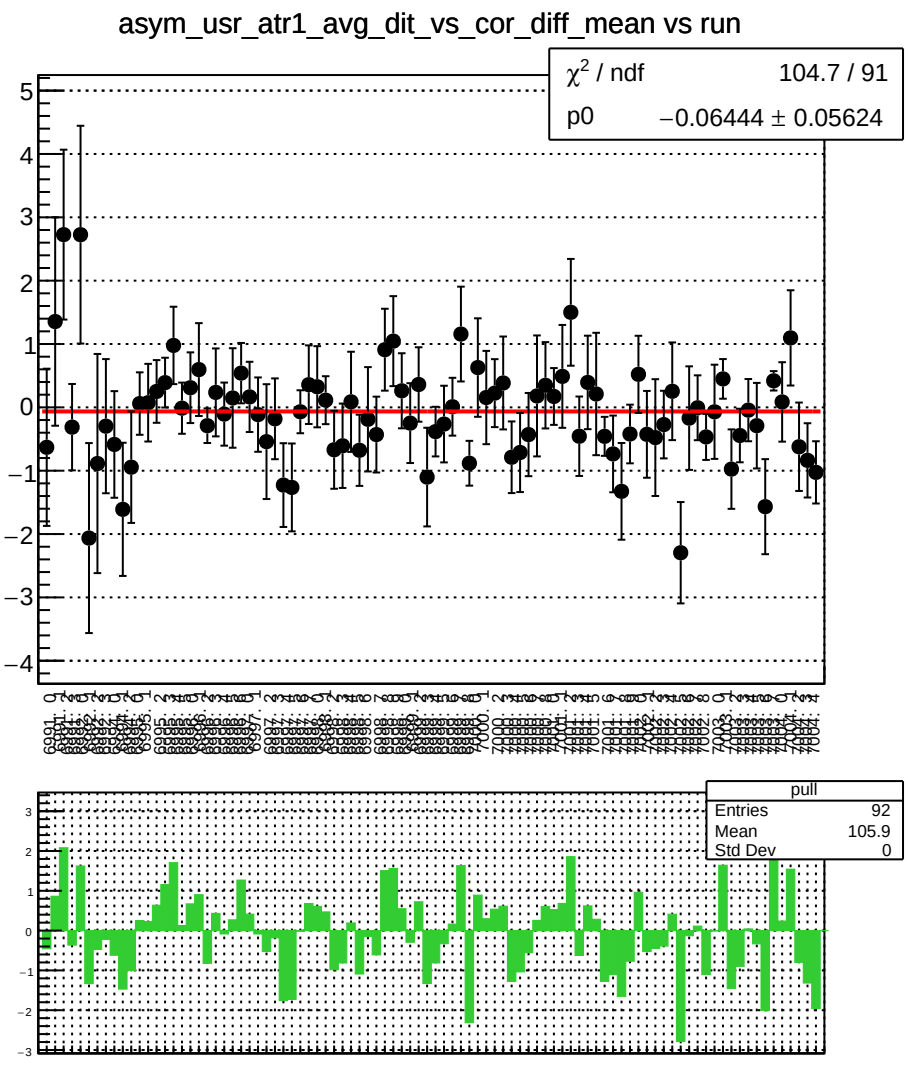

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3024 / 91
p0 861.5 ± 0.649
1000
950
900
850
800

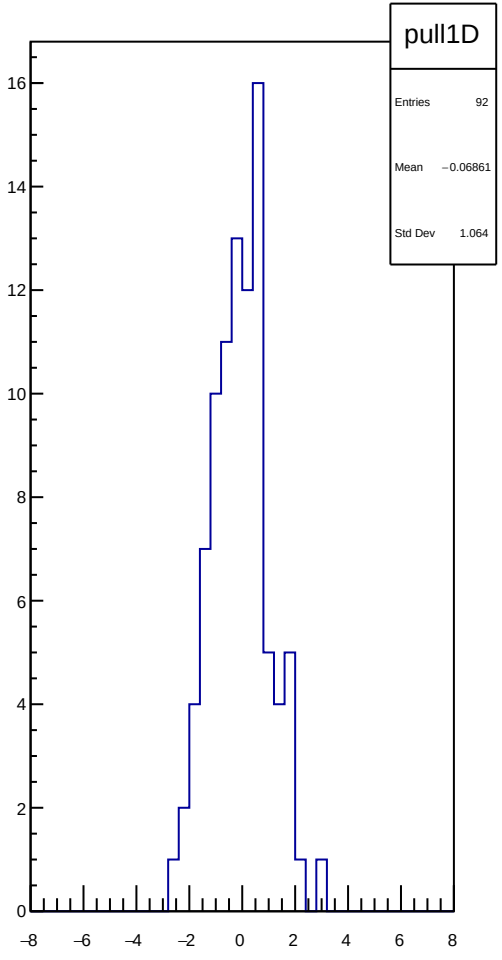

asym_usr_atr1_avg_mean vs run
χ² / ndf 73.44 / 91
p0 −1452 ± 1972
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −2080
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.003199
Std Dev 0.8934
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

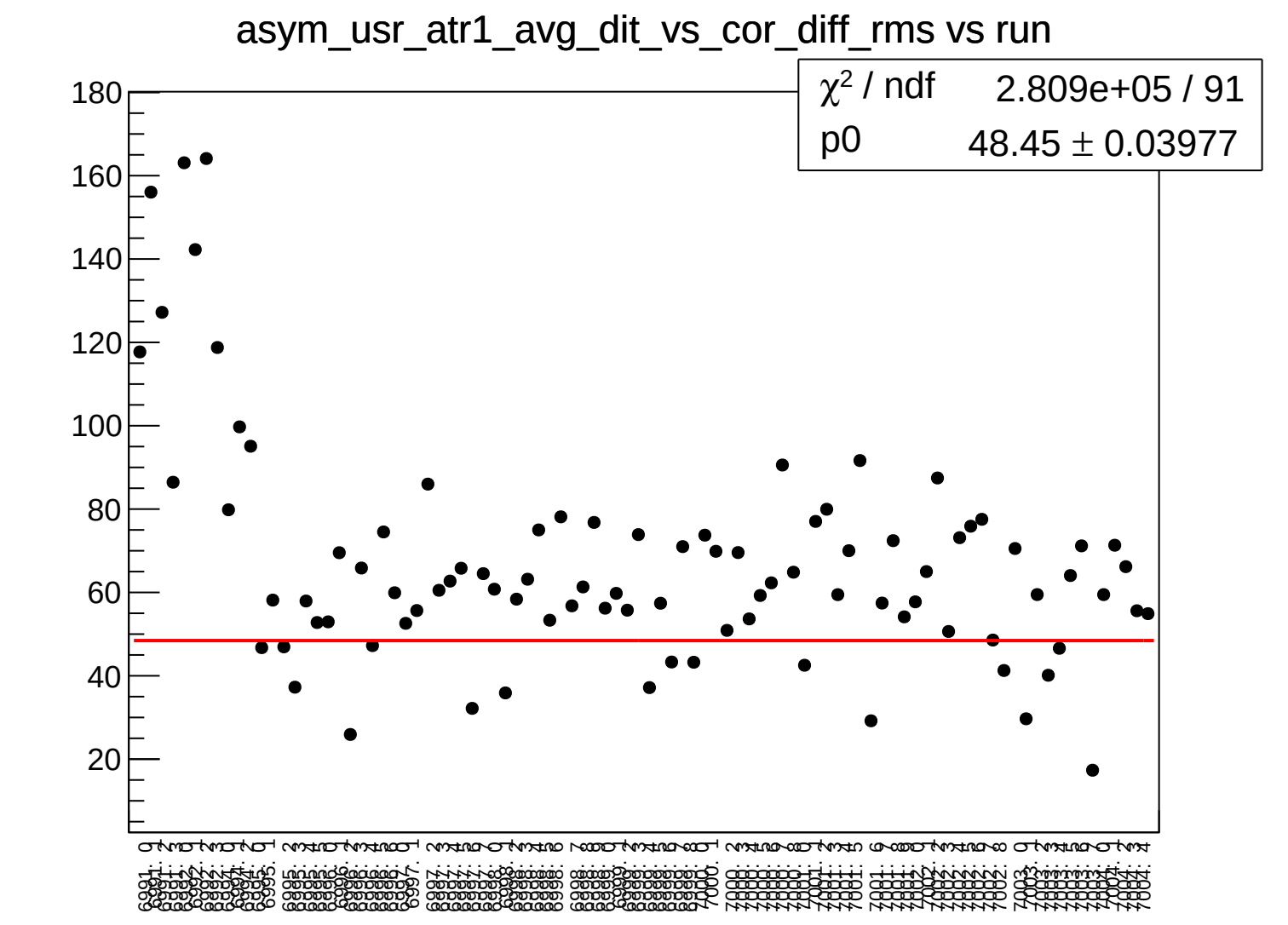

asym_usr_atr1_avg_rms vs run
χ² / ndf 335.3 / 91
p0 1853 ± 1.395
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

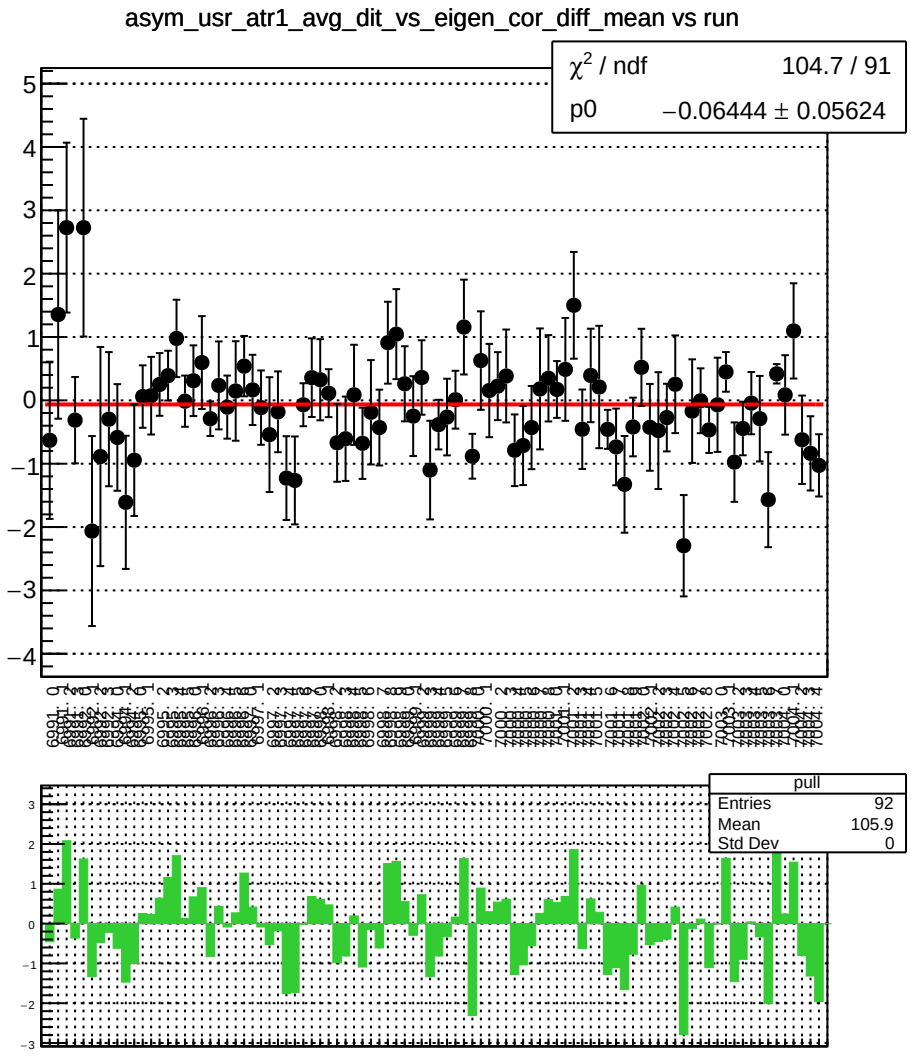

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 91
p0 2.189e−15 ± 1.712e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 49.55
Std Dev 20
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.123
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

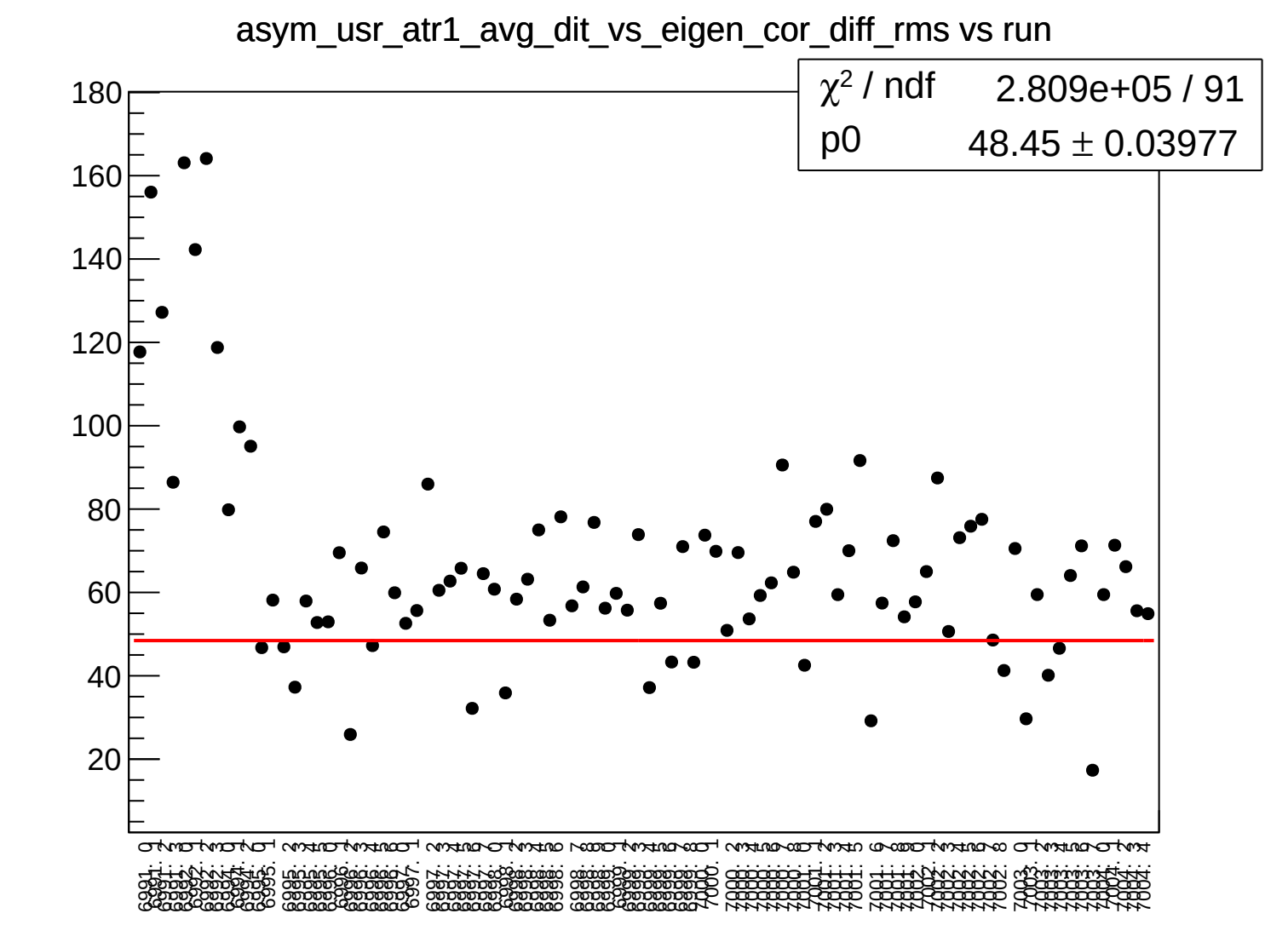

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.255e+06 / 91
p0 8.651e−12 ± 1.211e−14
1.2
1
0.8
0.6
0.4
0.2
0

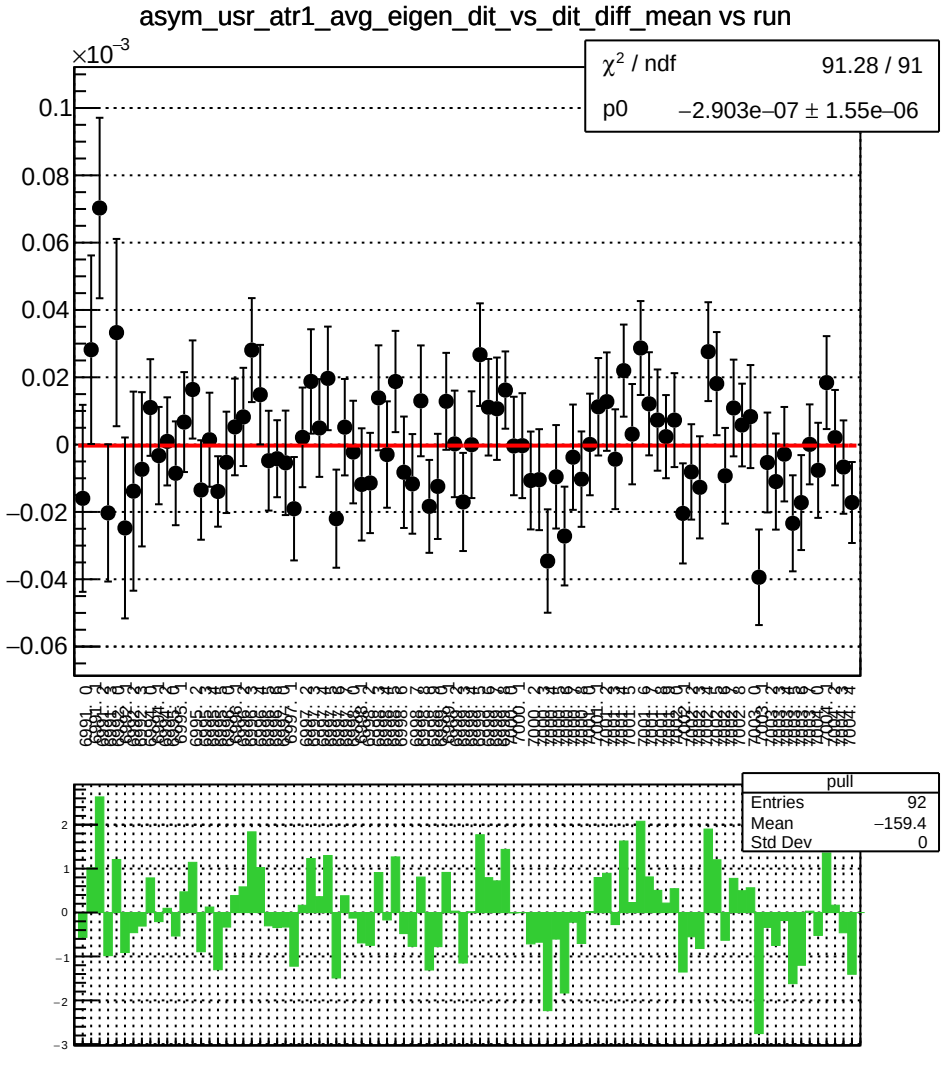

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 −0.06444 ± 0.05624
pull
Entries 92
Mean 105.9
Std Dev 0

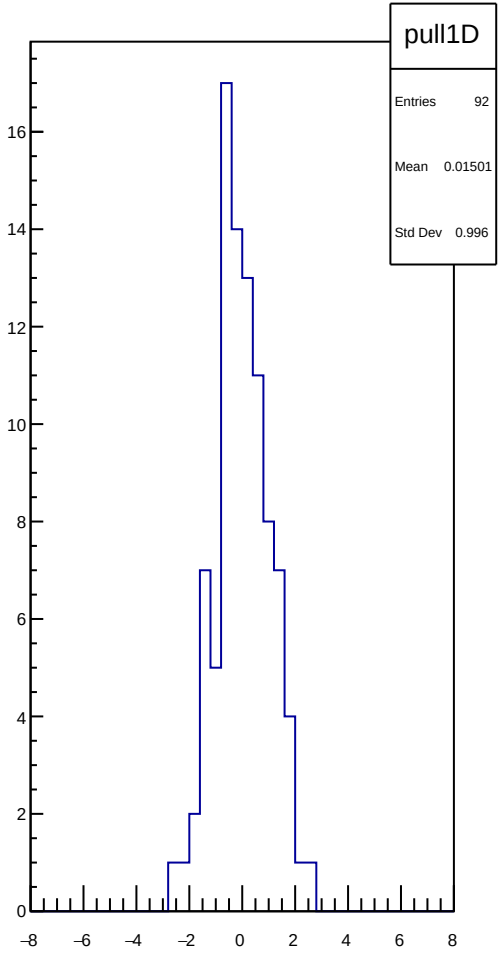

pull1D
Entries 92
Mean −0.06861
Std Dev 1.064

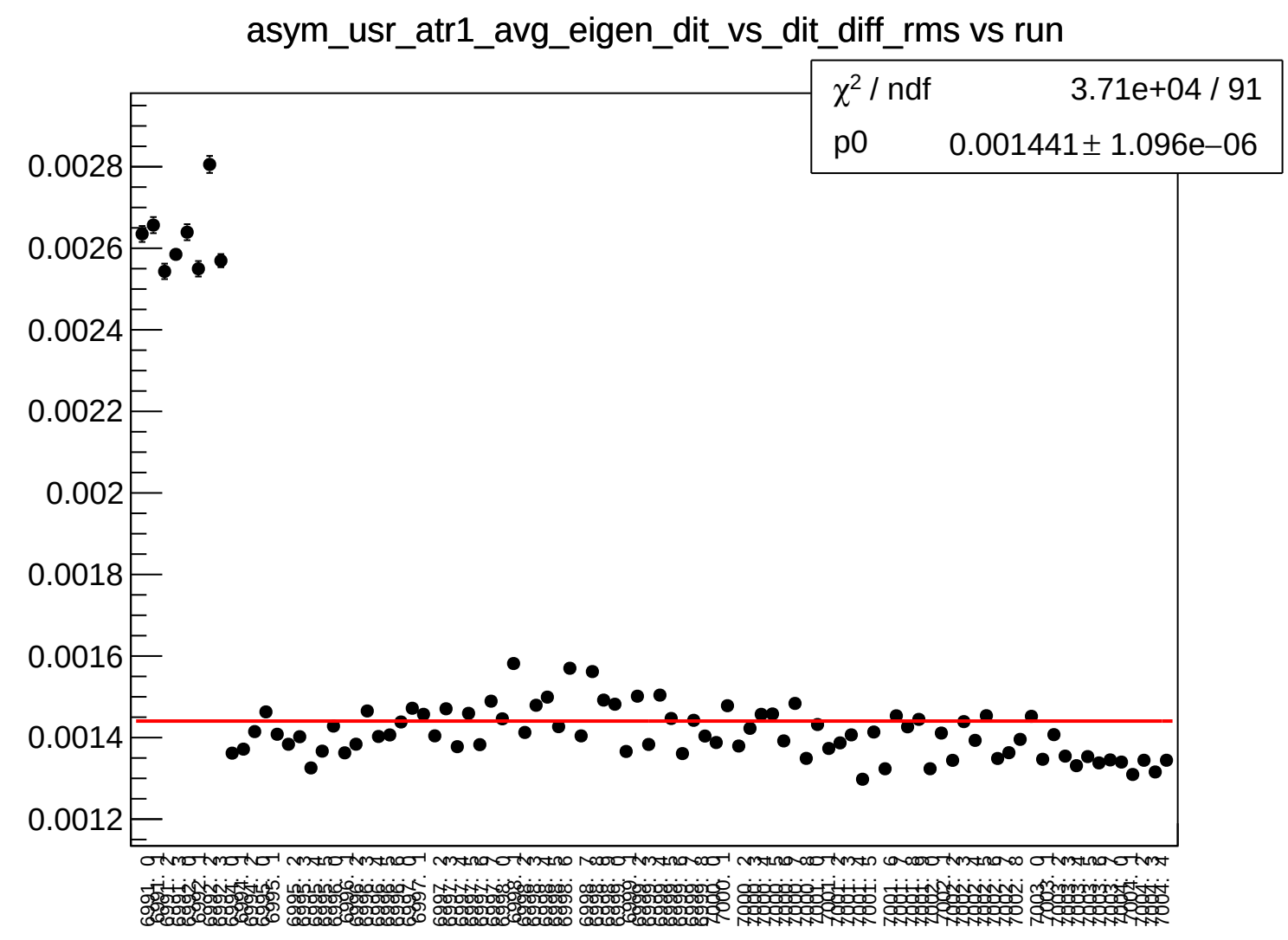

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.809e+05 / 91
p0 48.45 ± 0.03977
180
160
140
120
100
80
60
40
20

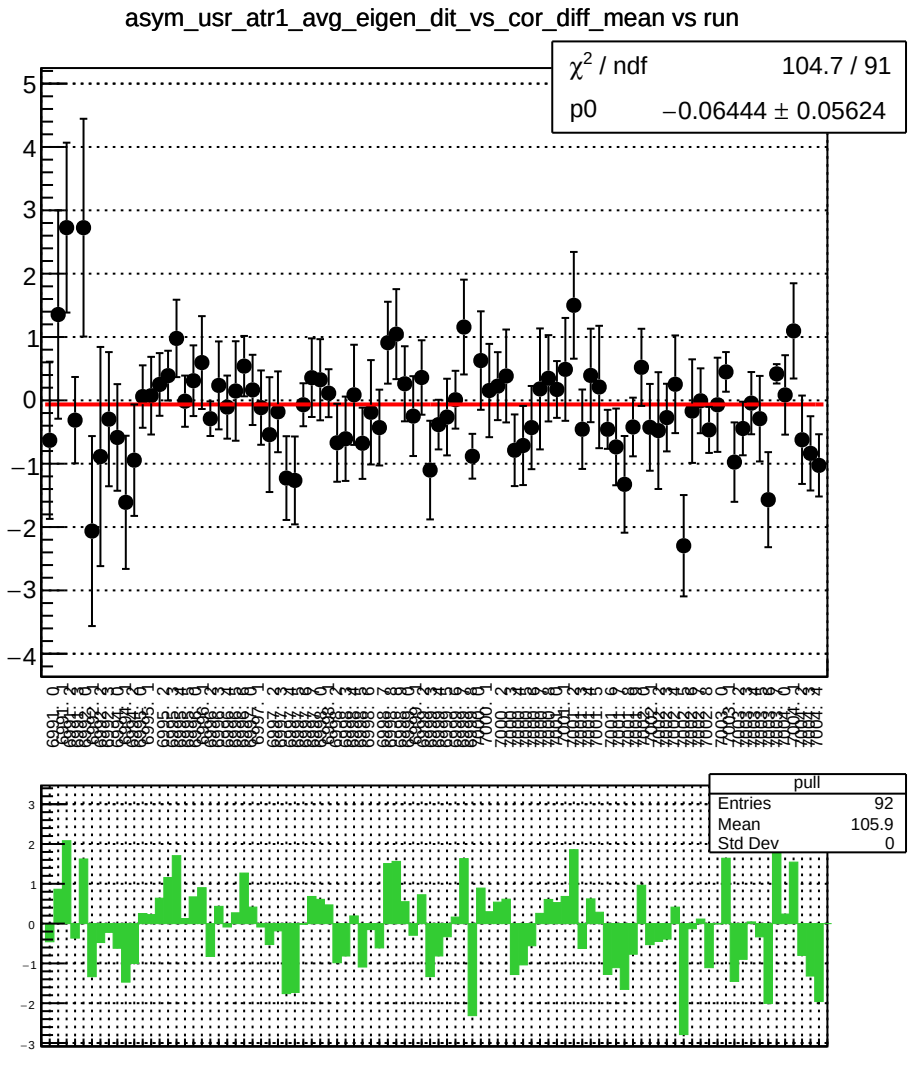

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 −0.06444 ± 0.05624
pull
Entries 92
Mean 105.9
Std Dev 0
pull1D
Entries 92
Mean −0.06861
Std Dev 1.064

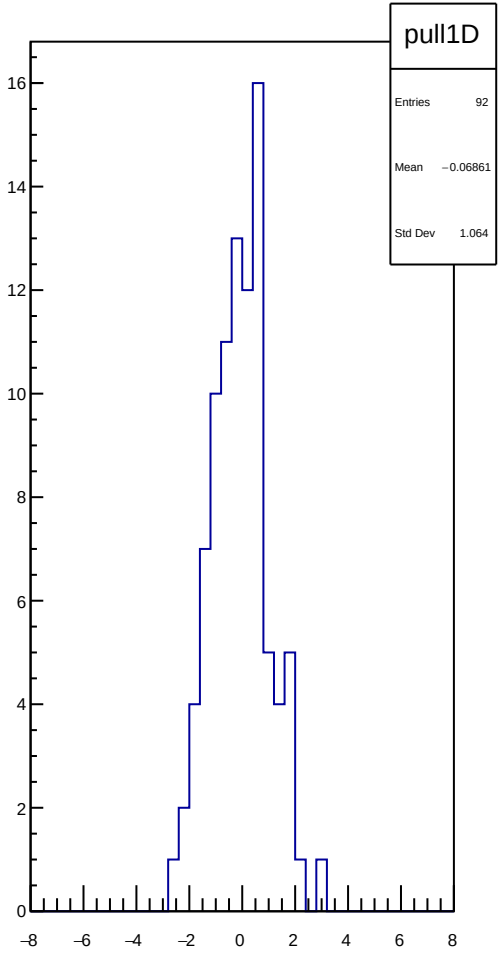

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.809e+05 / 91
p0 48.45 ± 0.03977
180
160
140
120
100
80
60
40
20

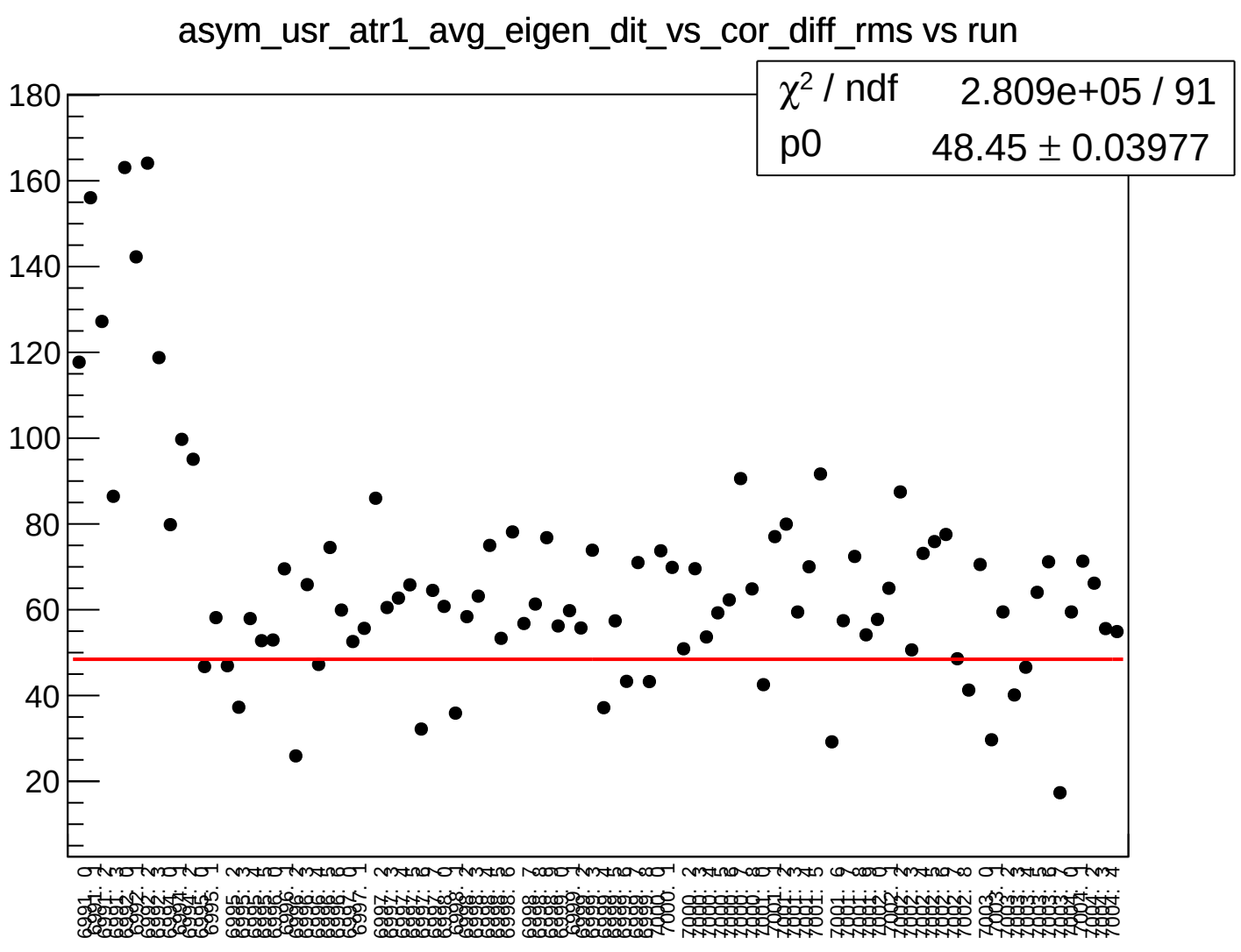

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.28 / 91
p0 −2.903e−07 ± 1.55e−06
pull
Entries 92
Mean −159.4
Std Dev 0

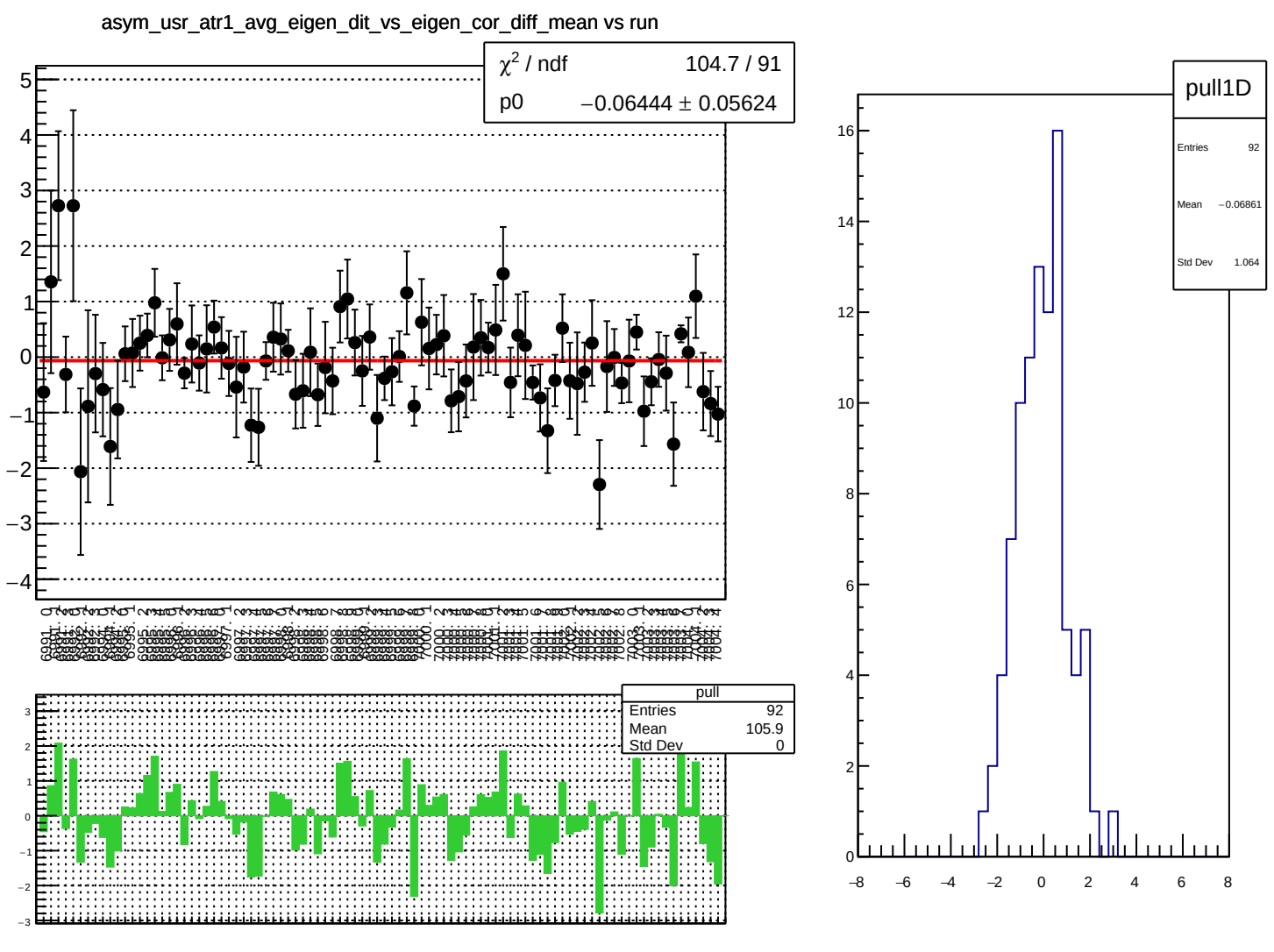

pull1D
Entries 92
Mean 0.01501
Std Dev 0.996

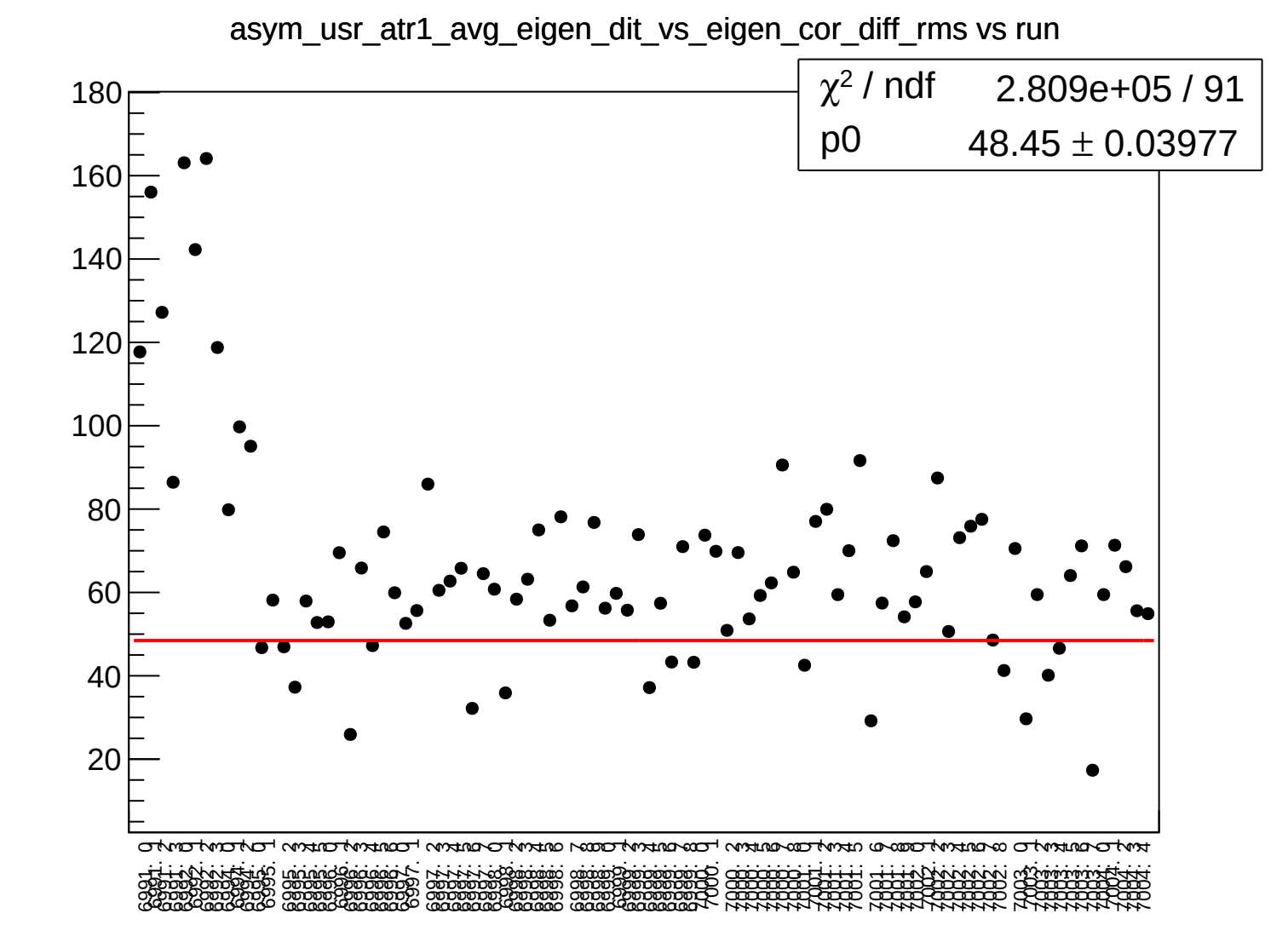

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.71e+04 / 91
p0 0.001441 ± 1.096e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

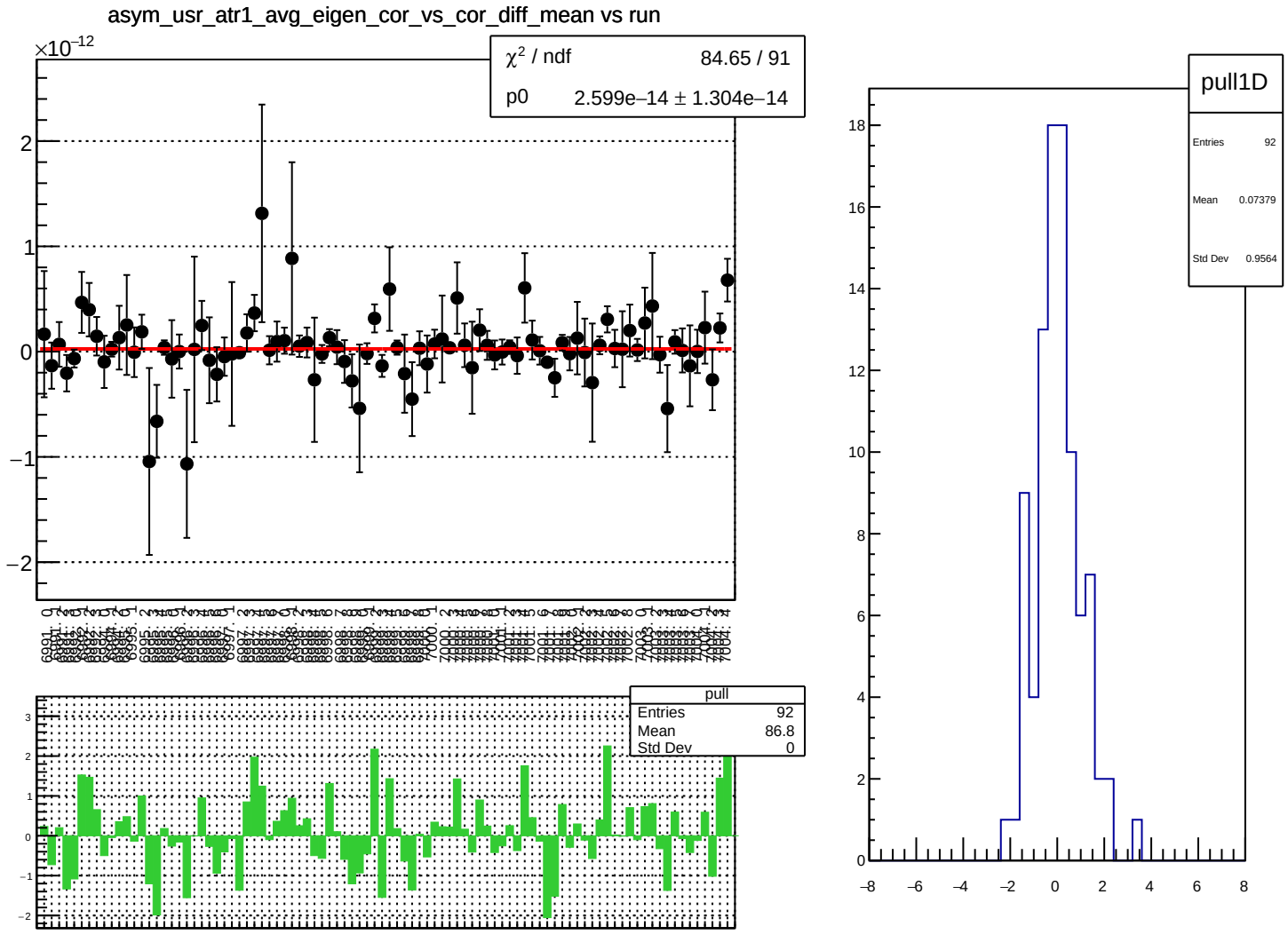

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 −0.06444 ± 0.05624
pull
Entries 92
Mean 105.9
Std Dev 0

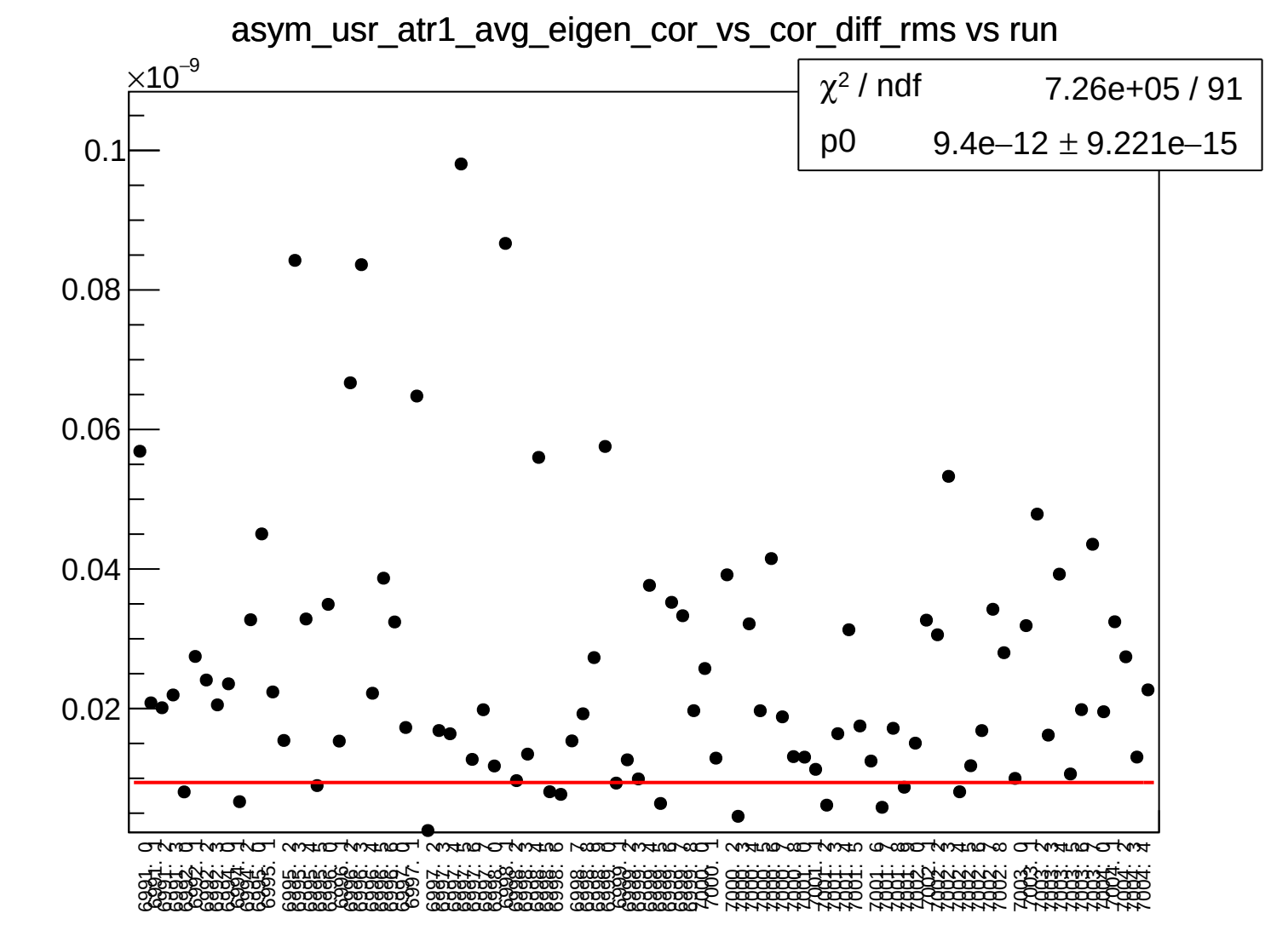

pull1D
Entries 92
Mean −0.06861
Std Dev 1.064

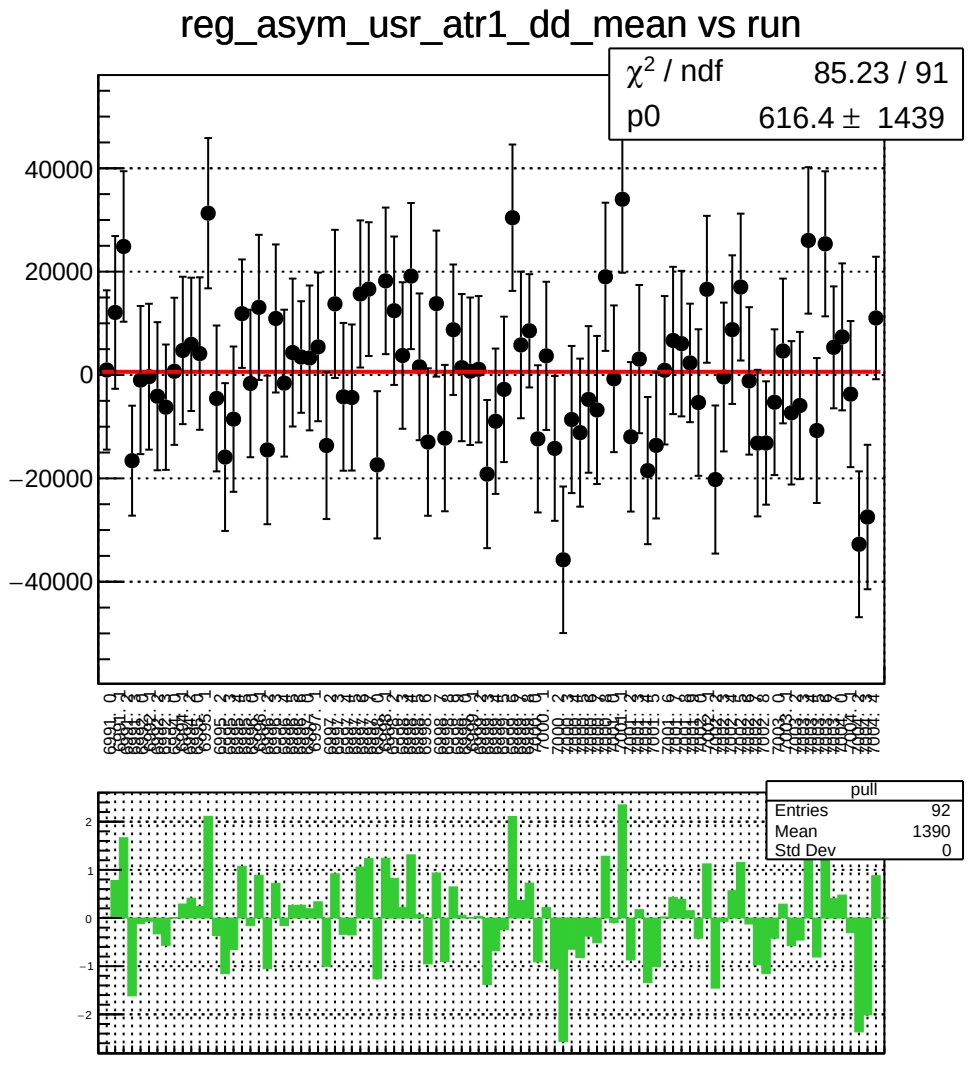

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.809e+05 / 91
p0 48.45 ± 0.03977
180
160
140
120
100
80
60
40
20

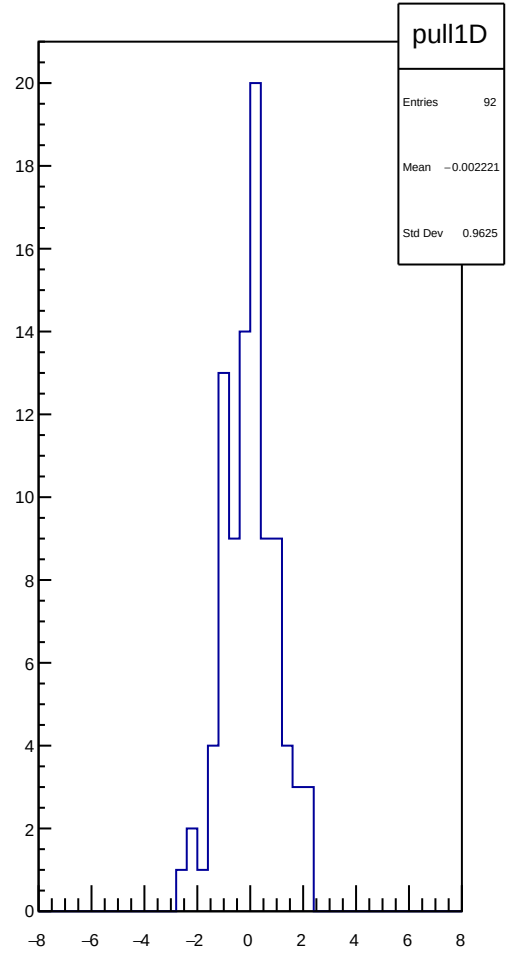

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 −0.06444 ± 0.05624
pull
Entries 92
Mean 105.9
Std Dev 0
pull1D
Entries 92
Mean −0.06861
Std Dev 1.064

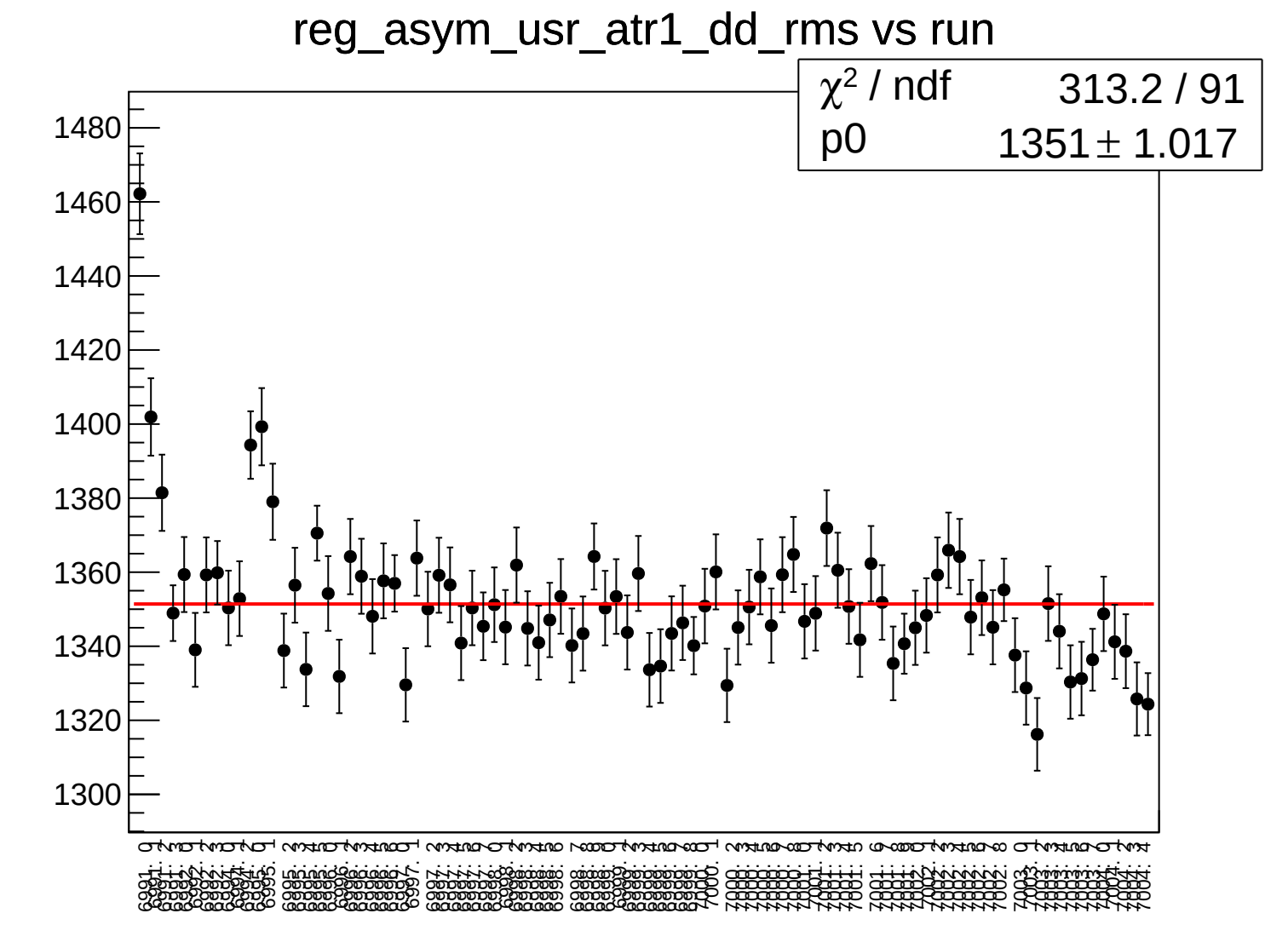

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.809e+05 / 91
p0 48.45 ± 0.03977
180
160
140
120
100
80
60
40
20

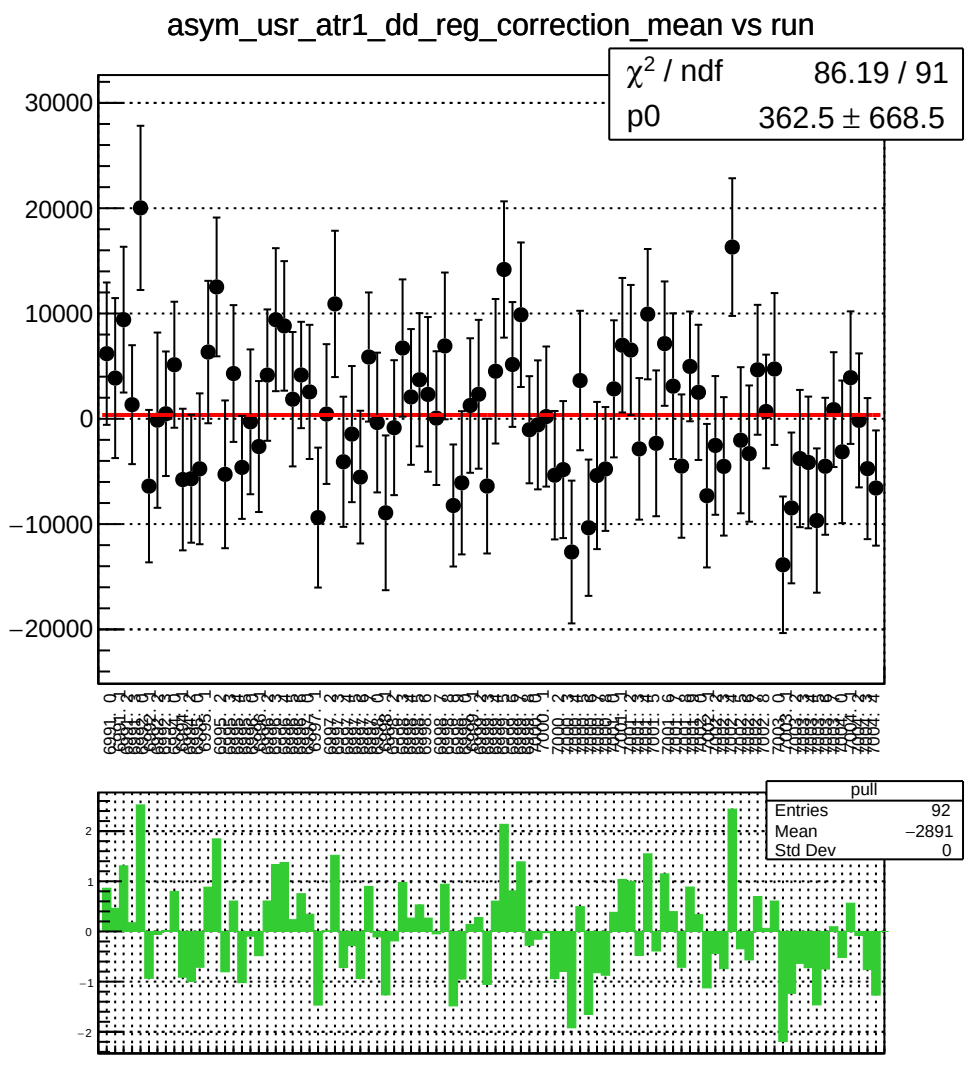

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.65 / 91
p0 2.599e−14 ± 1.304e−14
pull
Entries 92
Mean 86.8
Std Dev 0
pull1D
Entries 92
Mean 0.07379
Std Dev 0.9564

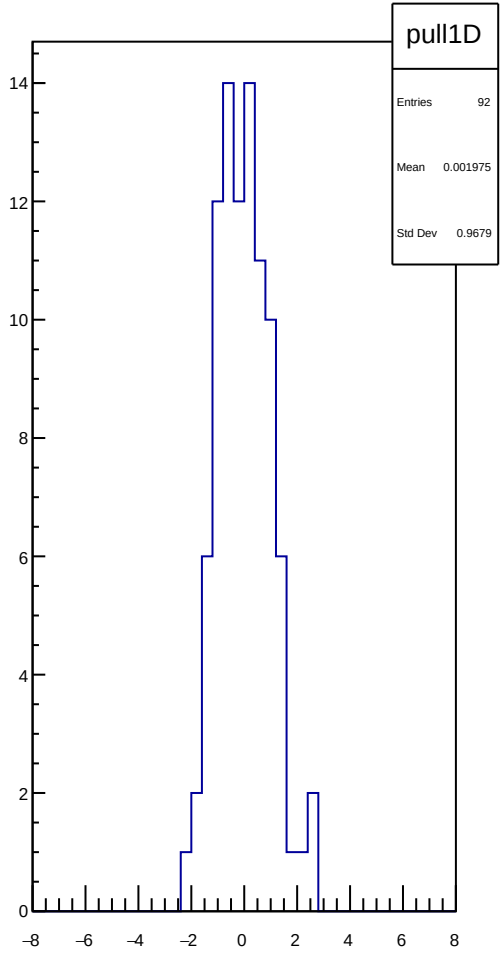

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.26e+05 / 91
p0 9.4e−12 ± 9.221e−15
0.1
0.08
0.06
0.04
0.02

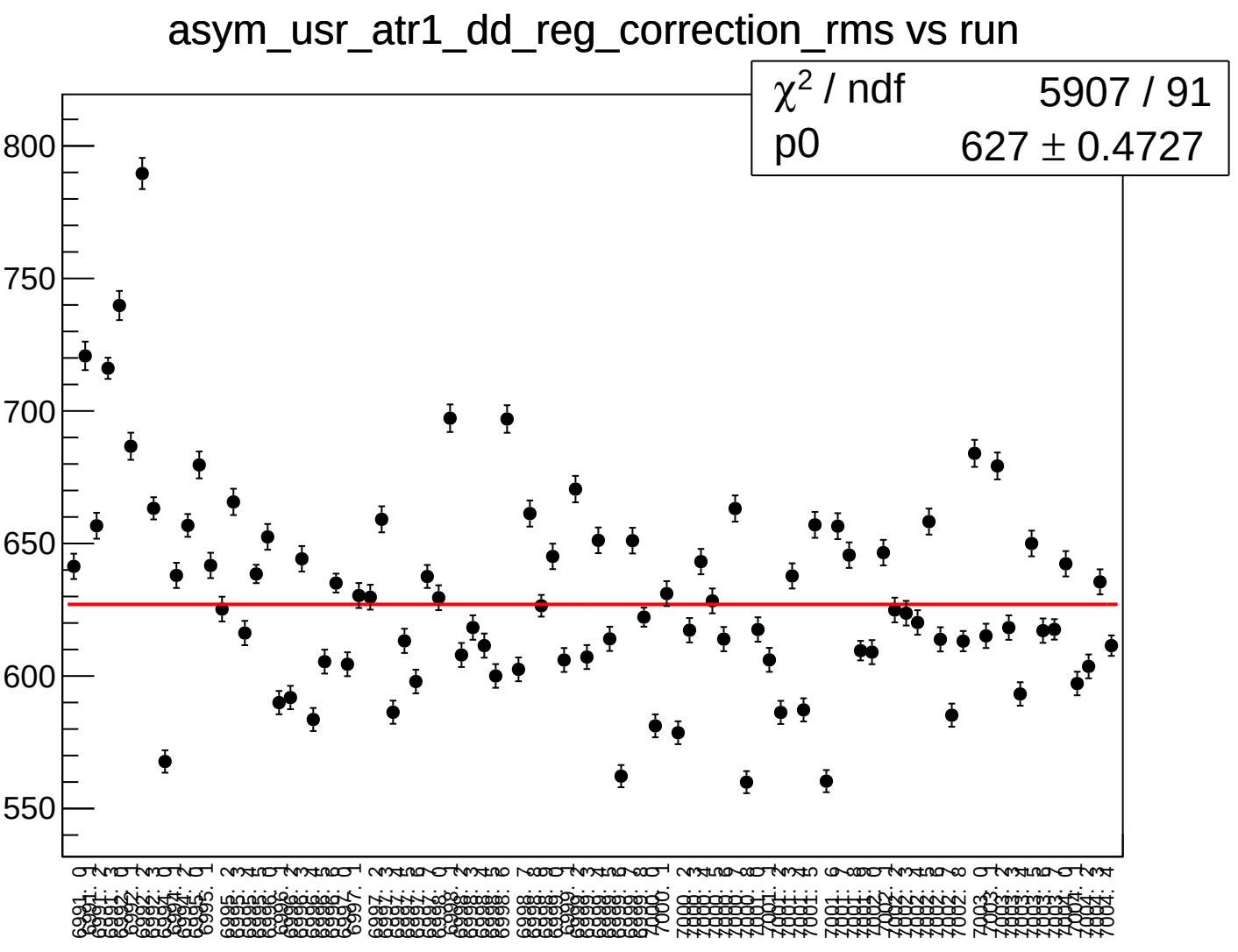

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 85.23 / 91
p0 616.4 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1390
Std Dev 0
2
1
0
−1
−2

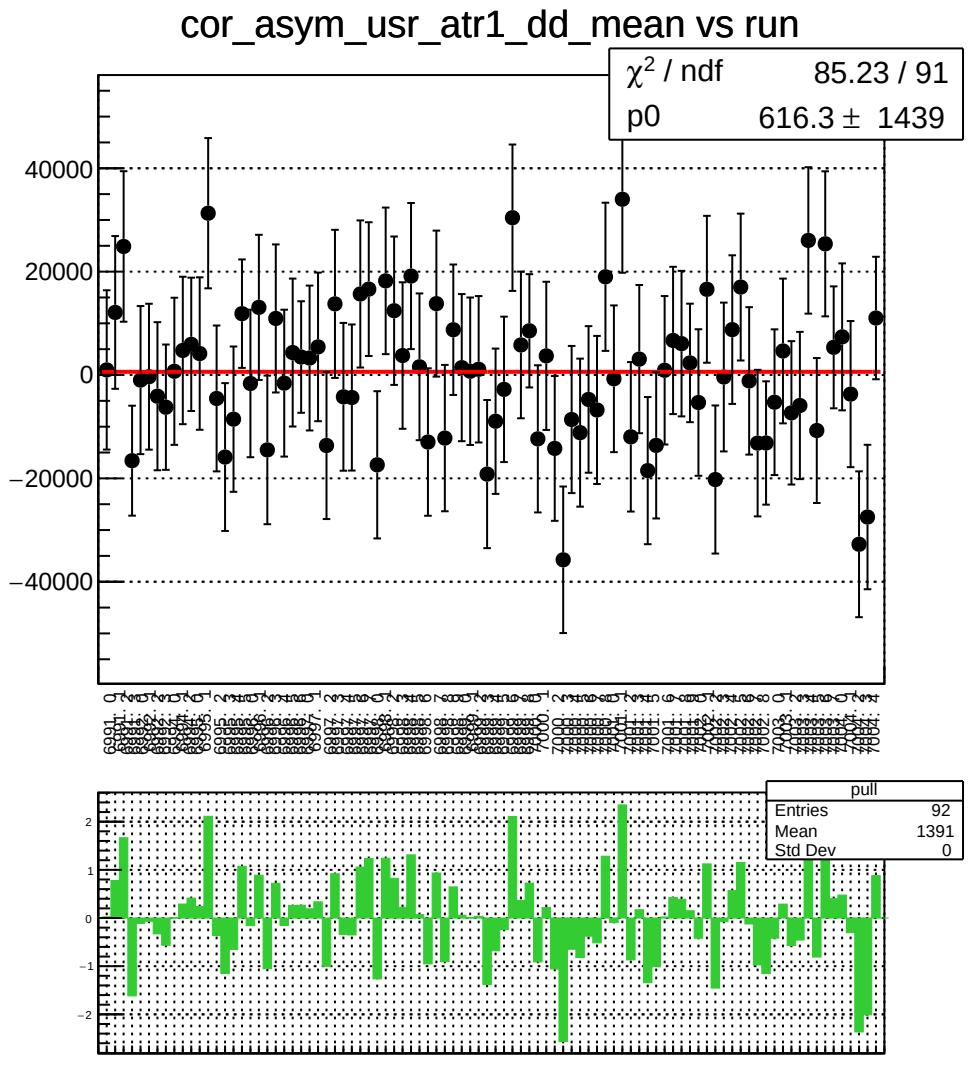

pull1D
Entries 92
Mean −0.002221
Std Dev 0.9625
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

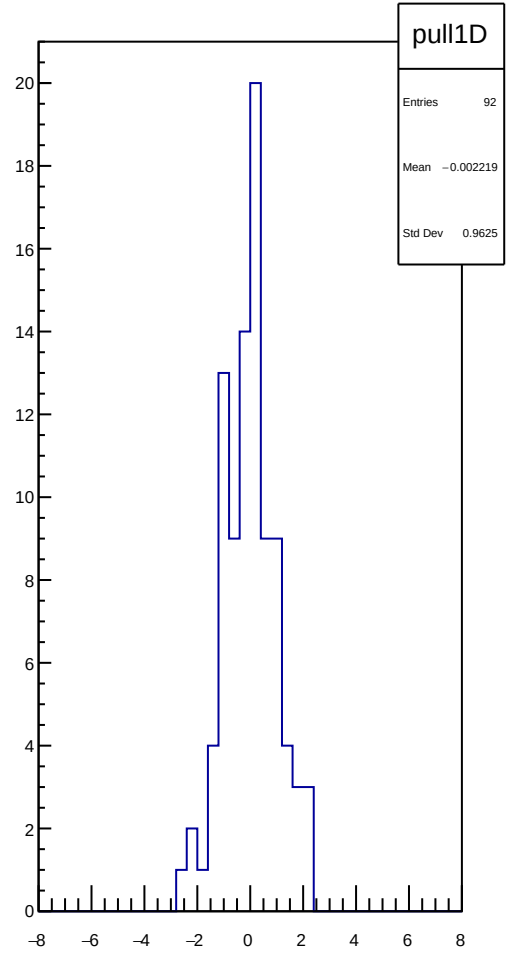

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 313.2 / 91
p0 1351 ± 1.017
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300

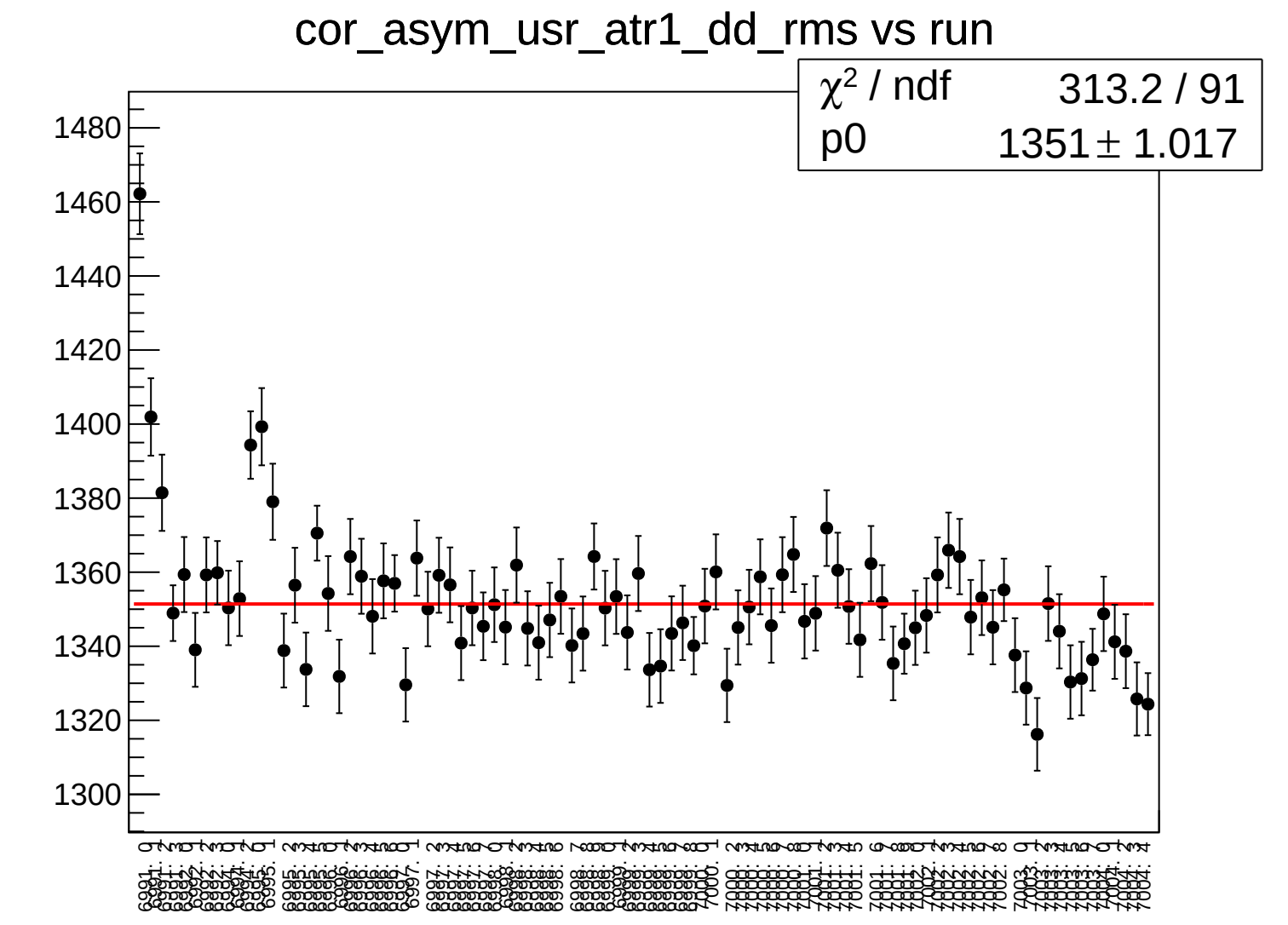

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 86.19 / 91
p0 362.5 ± 668.5
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −2891
Std Dev 0
2
1
0
−1
−2

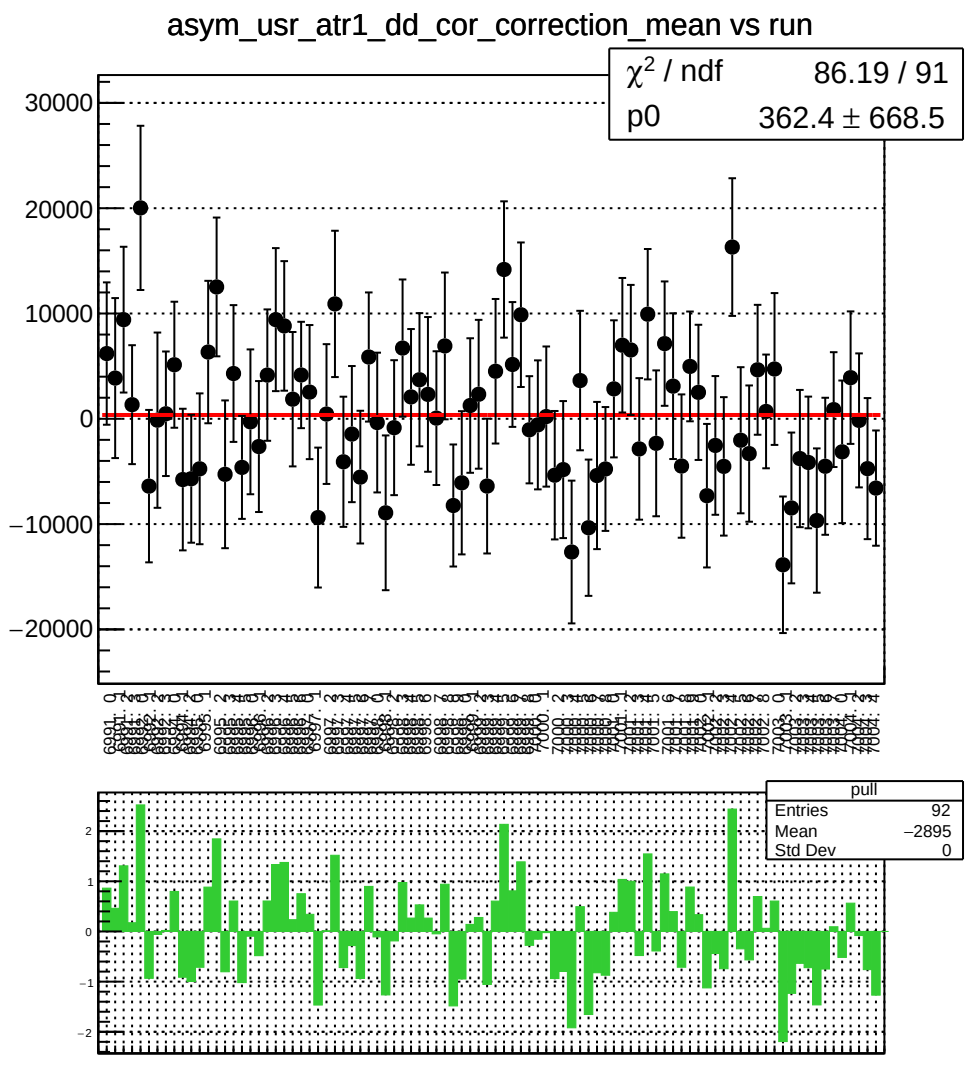

pull1D
Entries 92
Mean 0.001975
Std Dev 0.9679
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

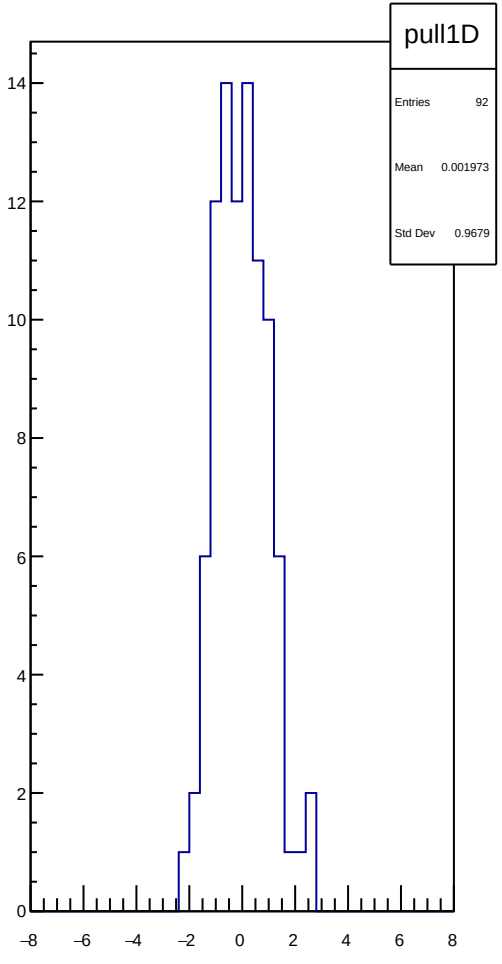

asym_usr_atr1_dd_reg_correction_rms vs run
χ^2 / ndf 5907 / 91
p0 627 ± 0.4727
800
750
700
650
600
550

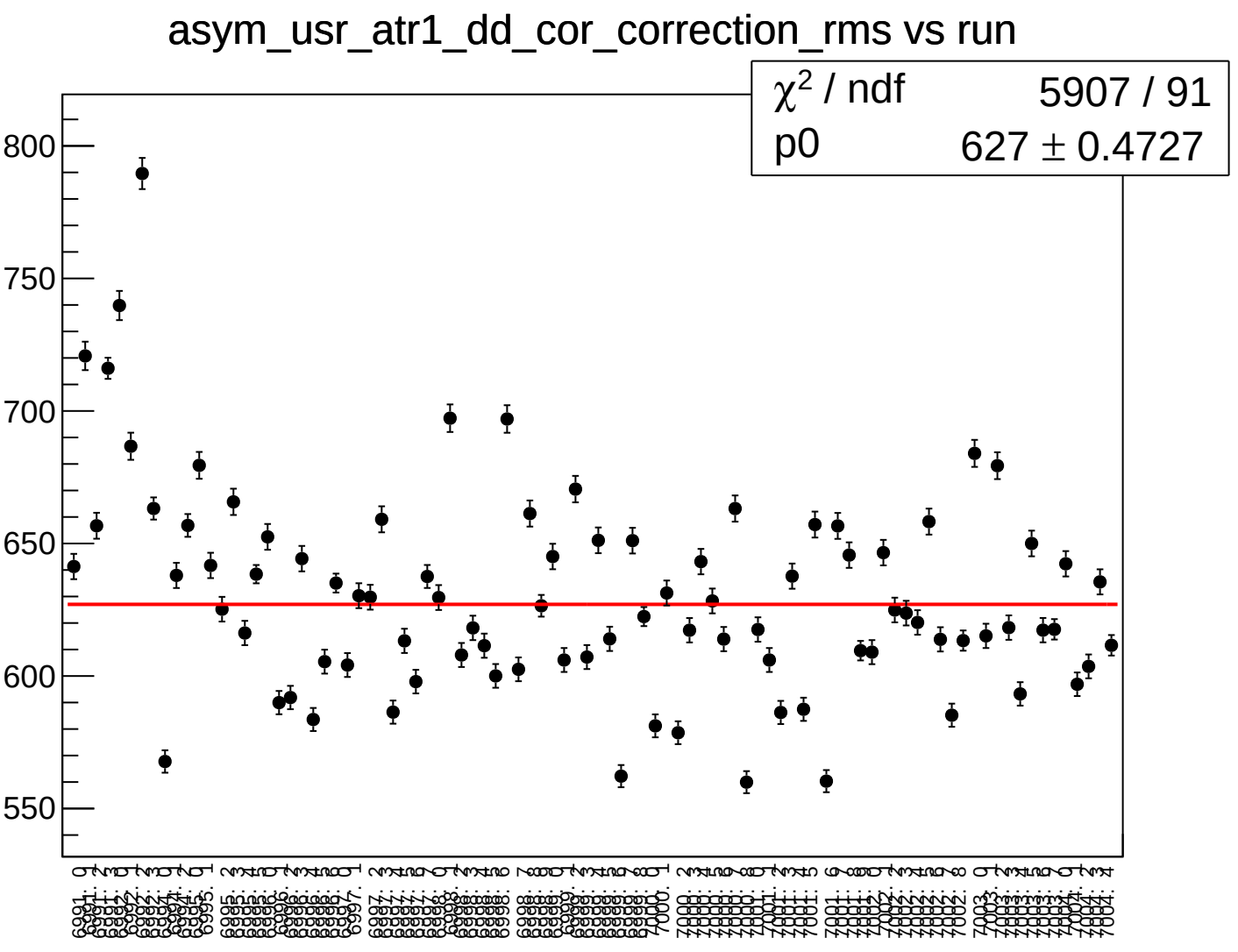

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 85.23 / 91
p0 616.3 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1391
Std Dev 0
2
1
0
−1
−2

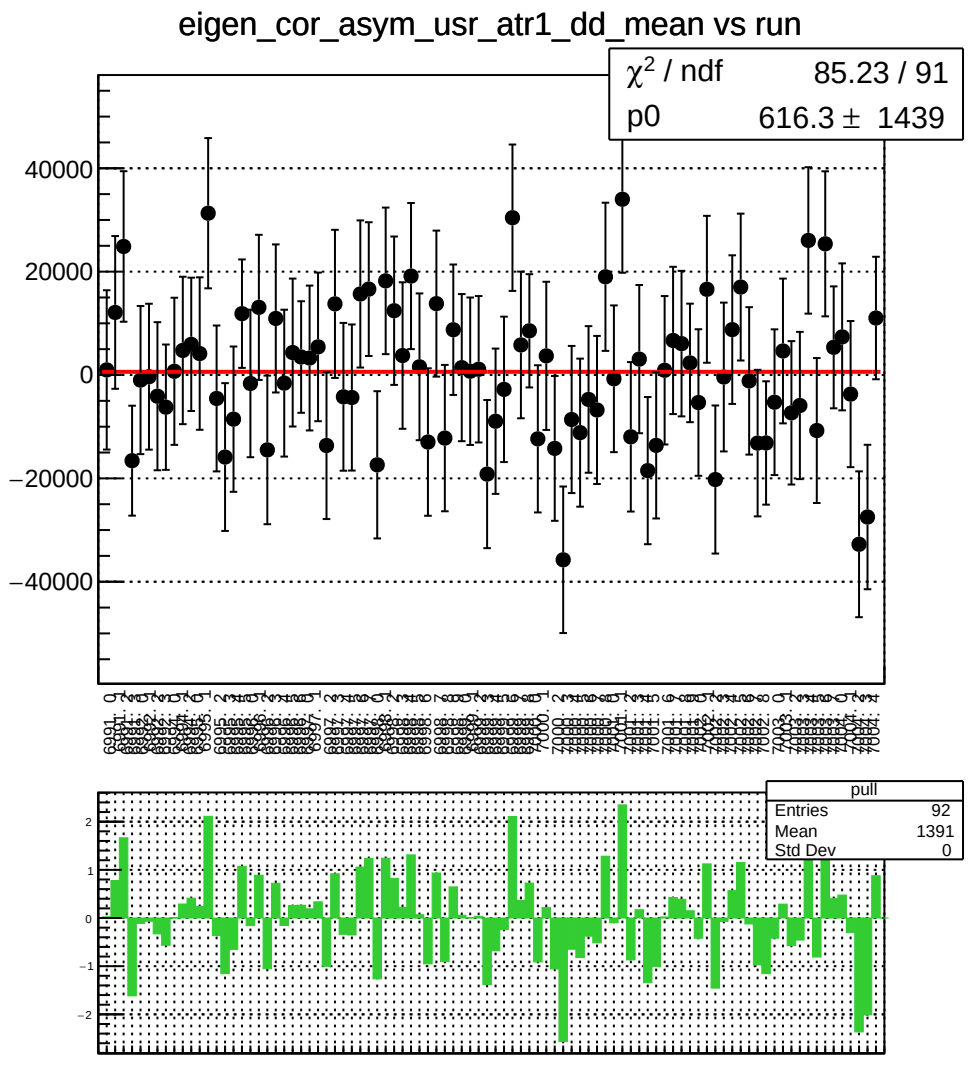

pull1D
Entries 92
Mean −0.002219
Std Dev 0.9625
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

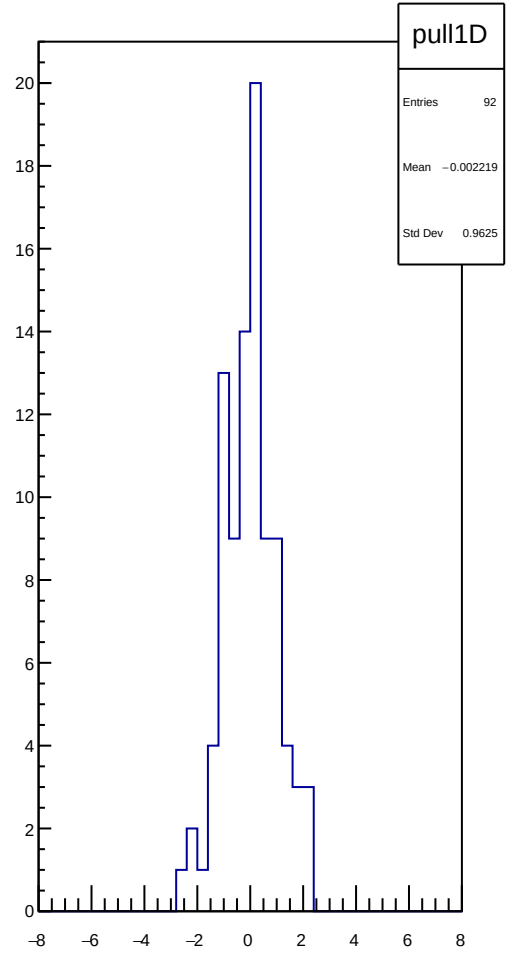

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 313.2 / 91
p0 1351 ± 1.017
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300

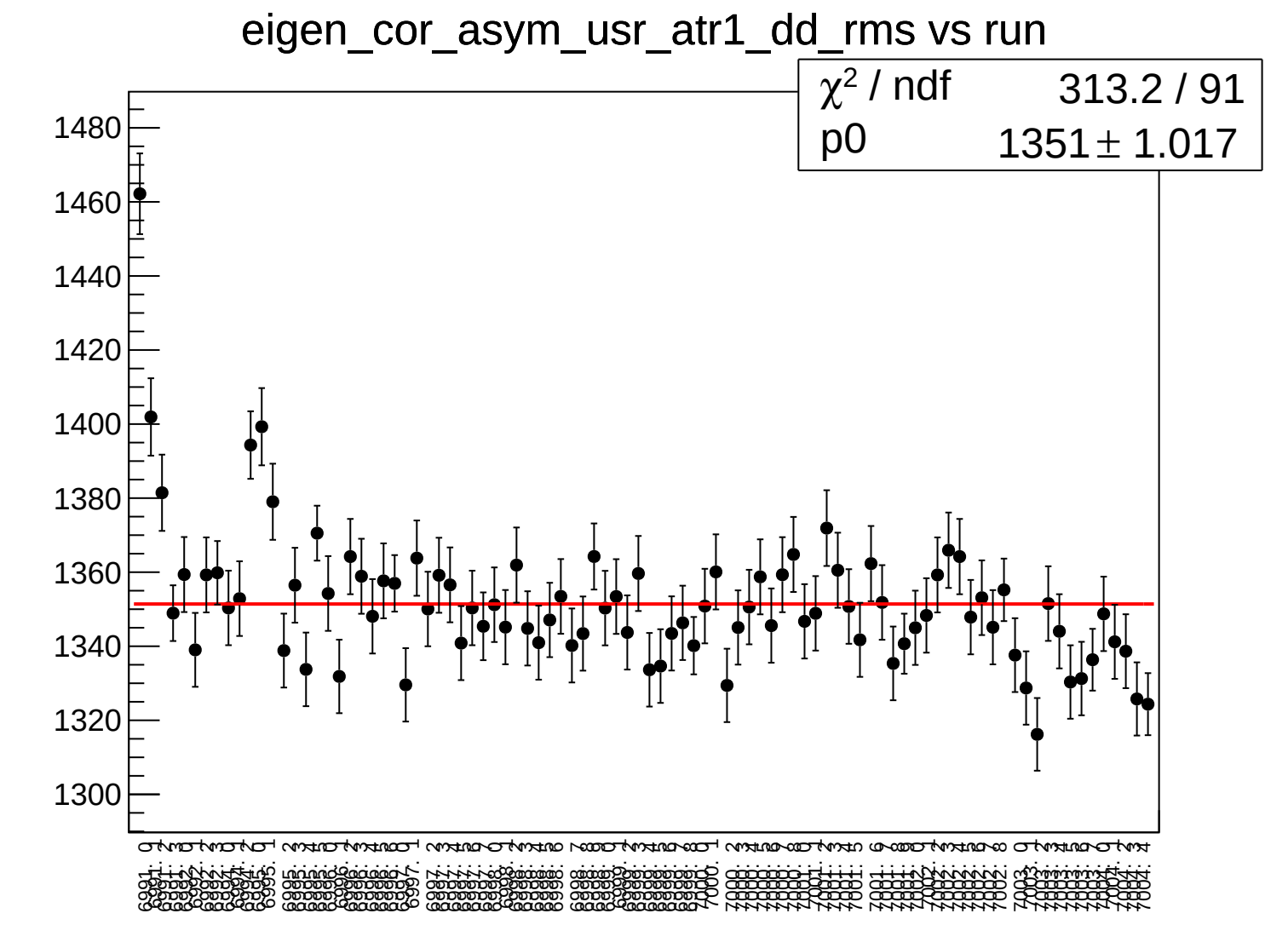

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 86.19 / 91
p0 362.4 ± 668.5
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −2895
Std Dev 0
2
1
0
−1
−2

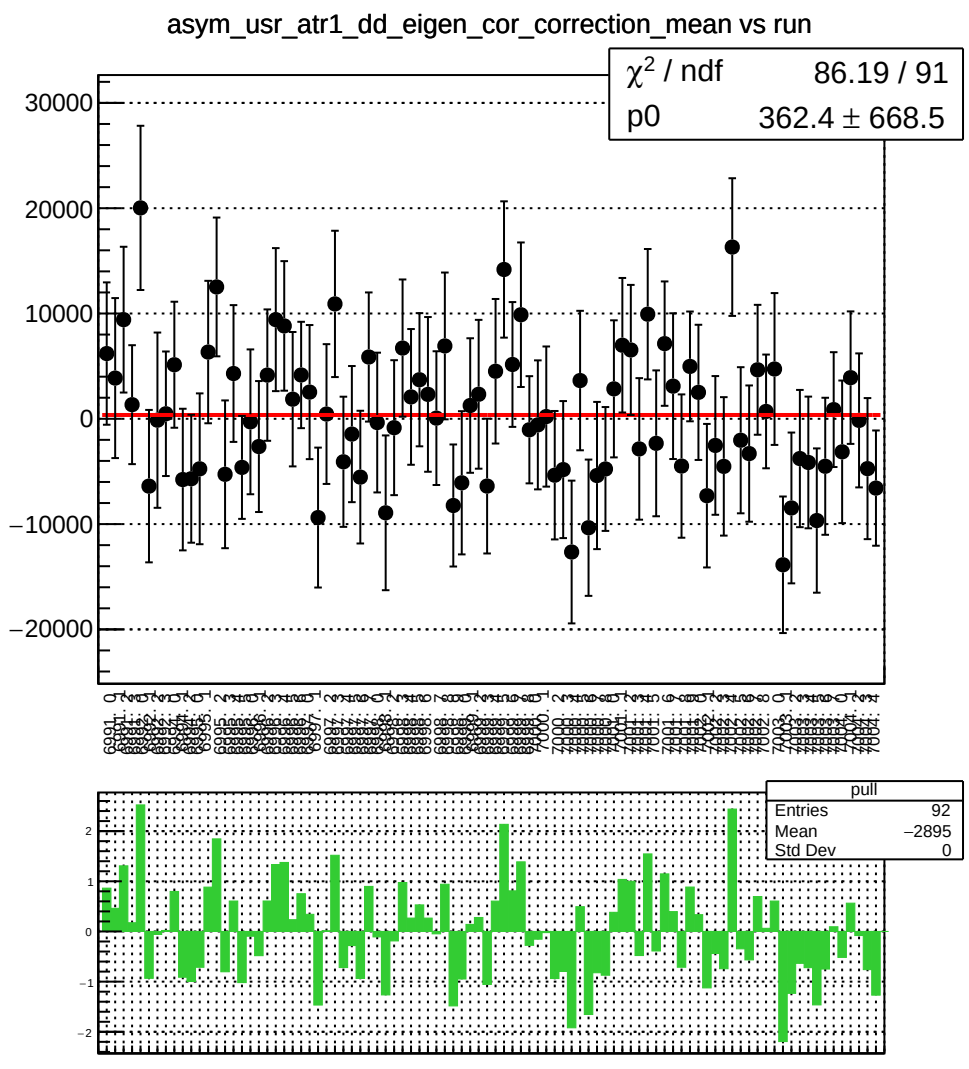

pull1D
Entries 92
Mean 0.001973
Std Dev 0.9679
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

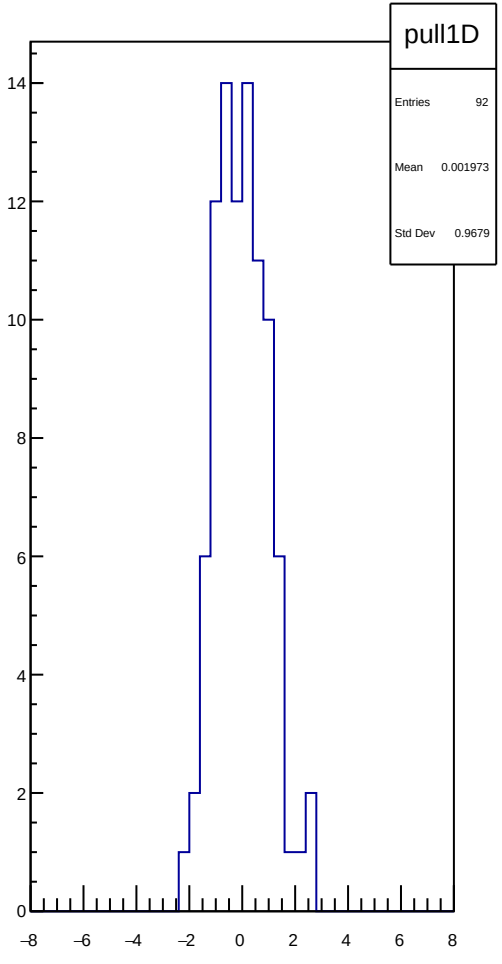

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 5907 / 91
p0 627 ± 0.4727
800
750
700
650
600
550

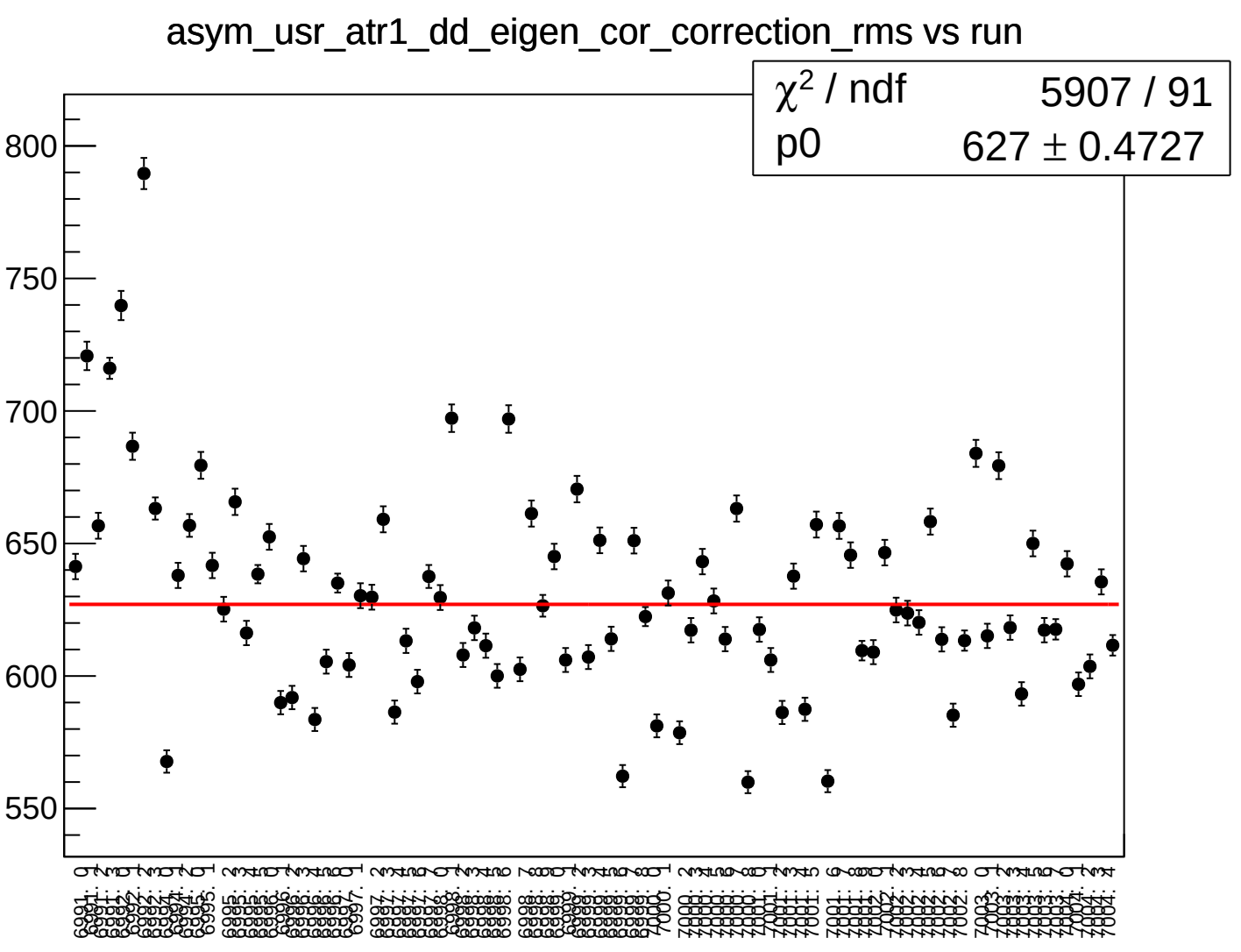

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 85.23 / 91
p0 616.3 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1391
Std Dev 0
2
1
0
−1
−2

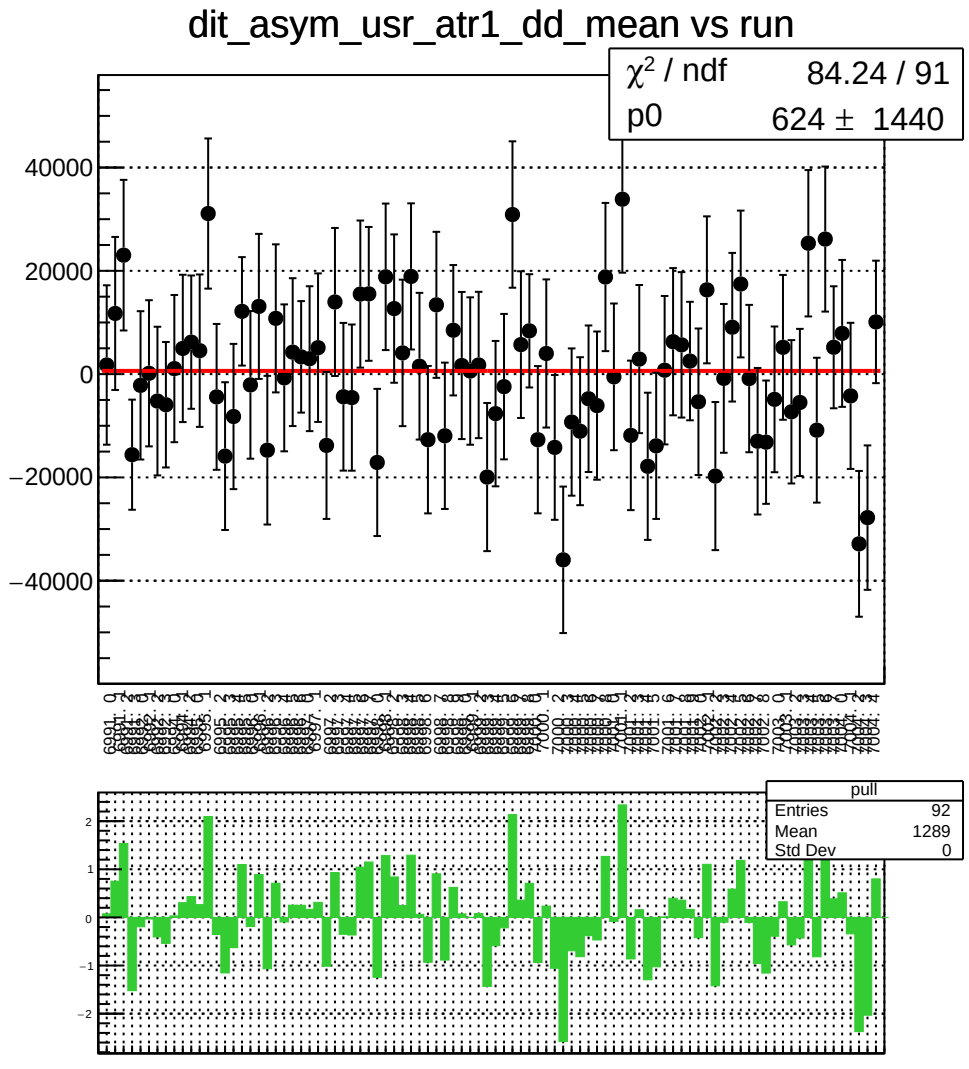

pull1D
Entries 92
Mean −0.002219
Std Dev 0.9625
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

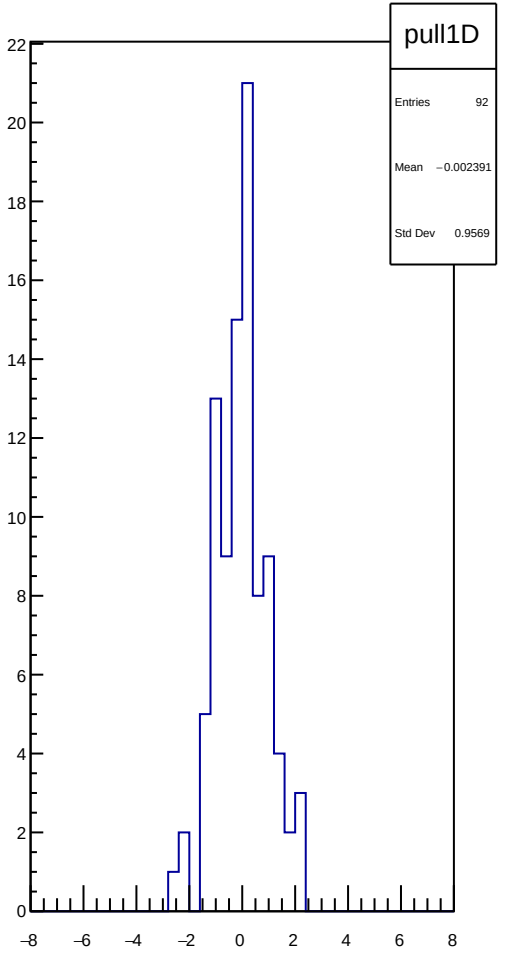

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 313.2 / 91
p0 1351 ± 1.017
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300

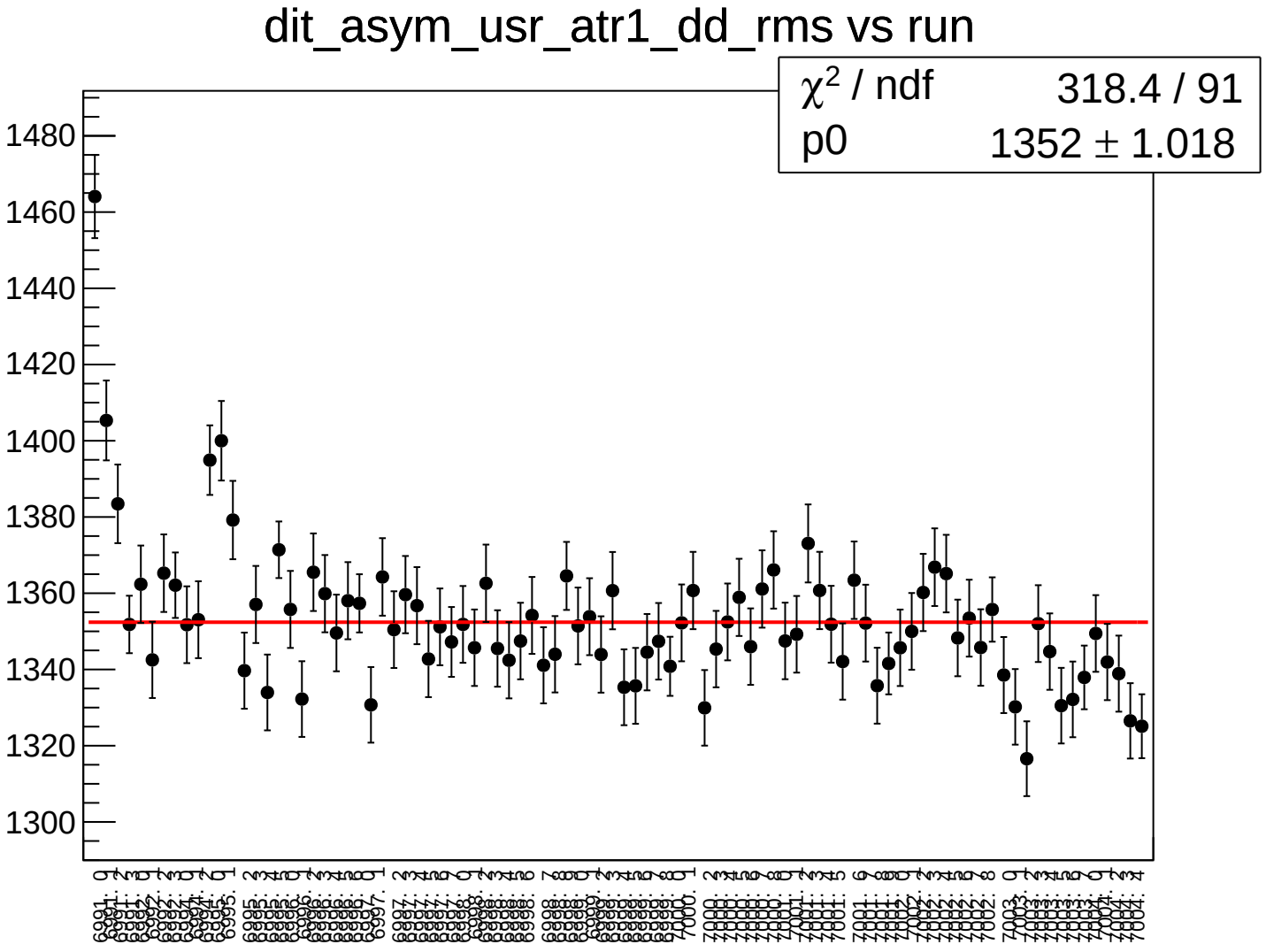

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.19 / 91
p0 362.4 ± 668.5
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −2895
Std Dev 0
2
1
0
−1
−2

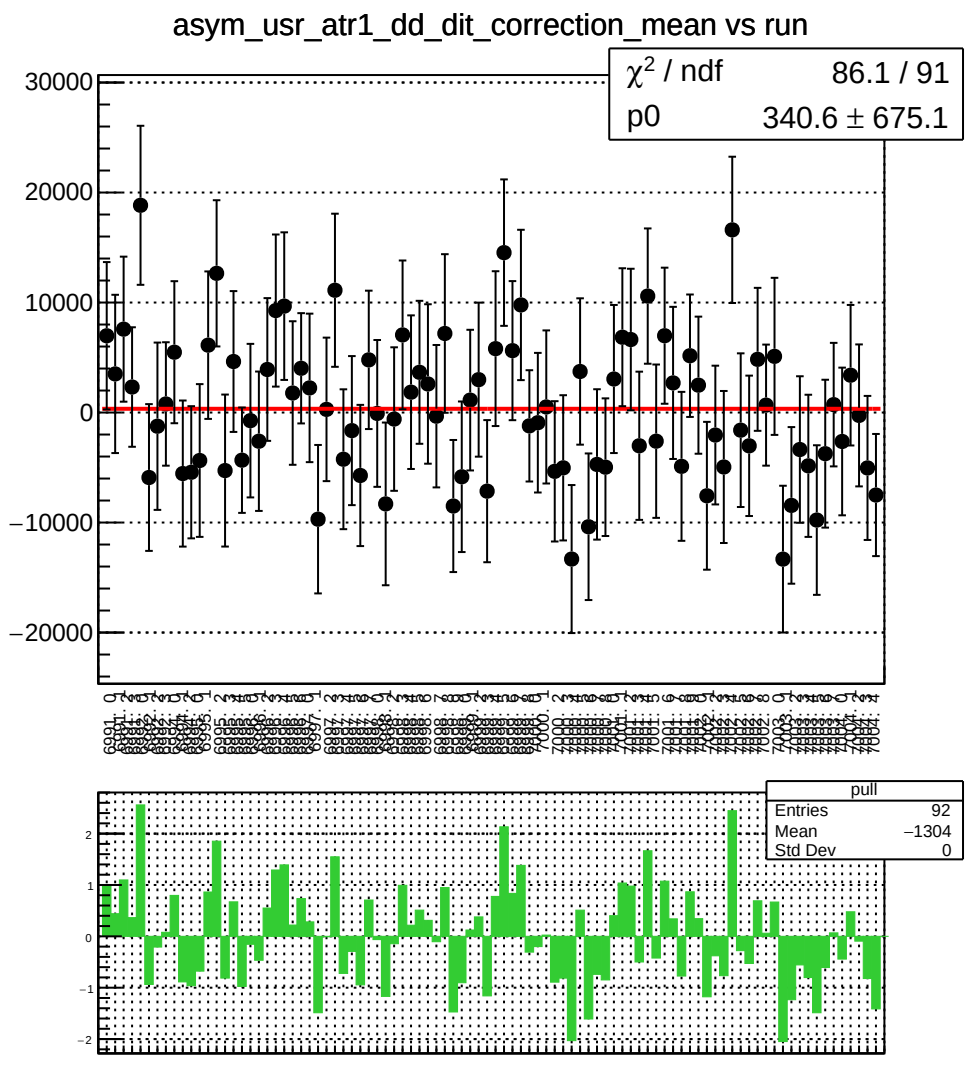

pull1D
Entries 92
Mean 0.001973
Std Dev 0.9679
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

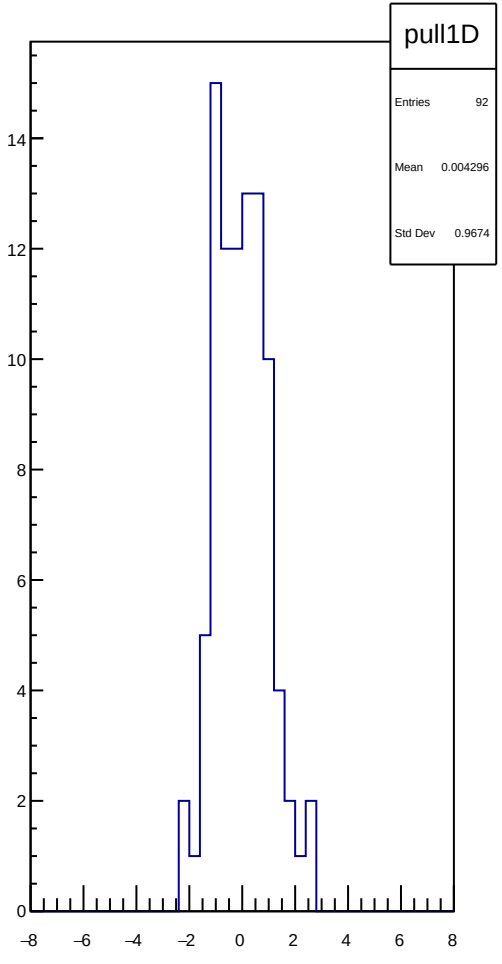

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 5907 / 91
p0 627 ± 0.4727
800
750
700
650
600
550

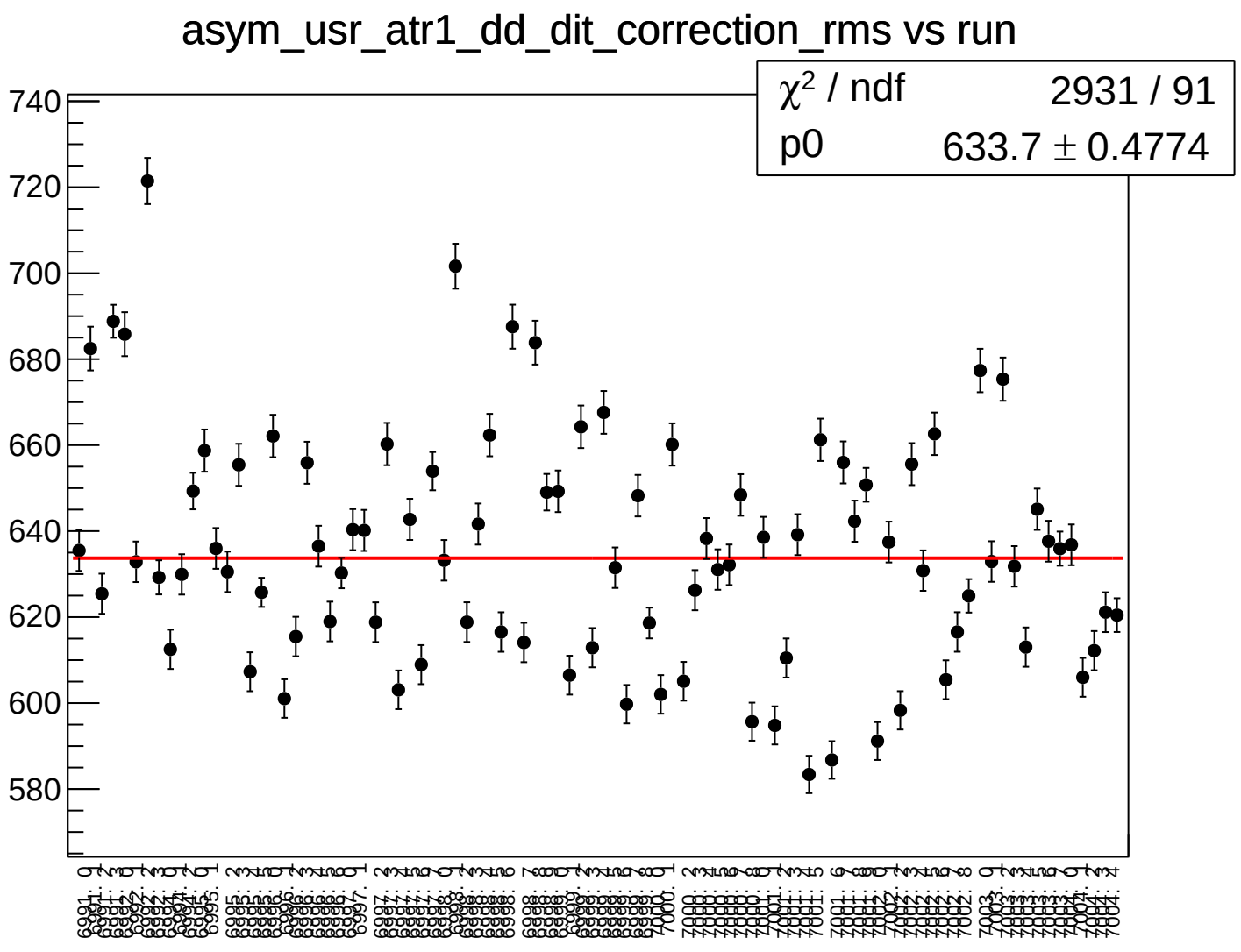

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 84.24 / 91
p0 624 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1289
Std Dev 0
2
1
0
−1
−2

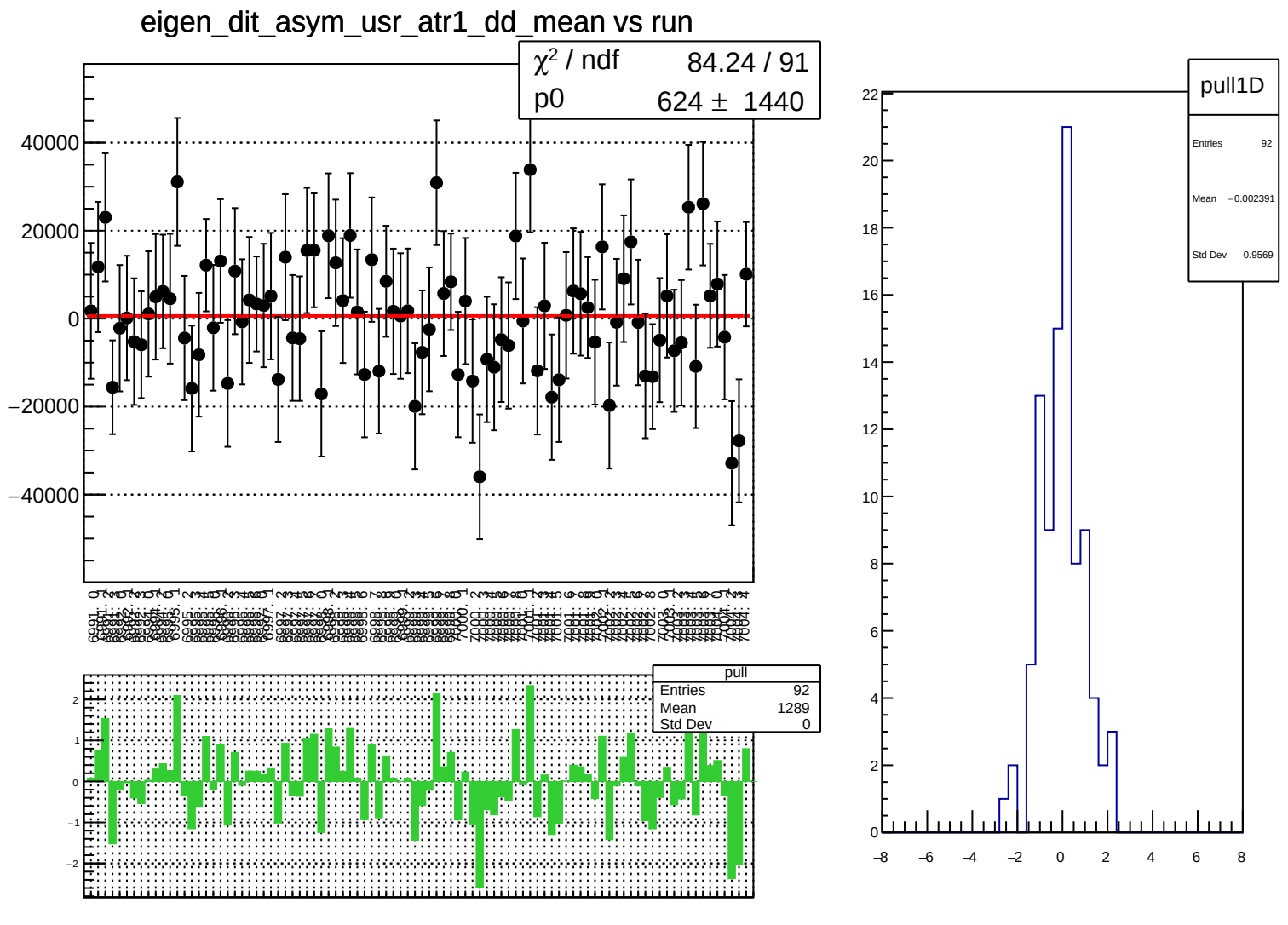

pull1D
Entries 92
Mean −0.002391
Std Dev 0.9569
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

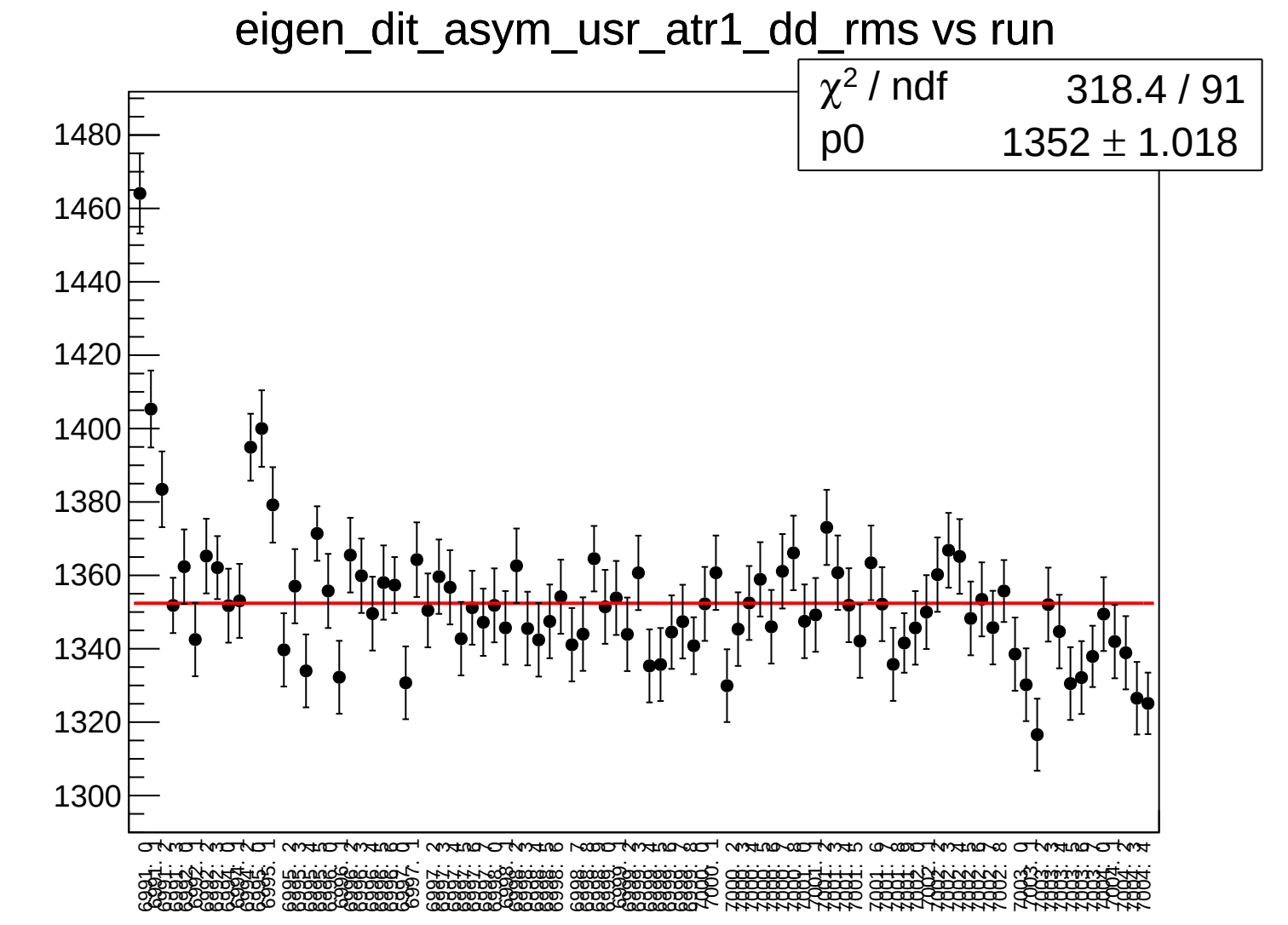

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 318.4 / 91
p0 1352 ± 1.018
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300

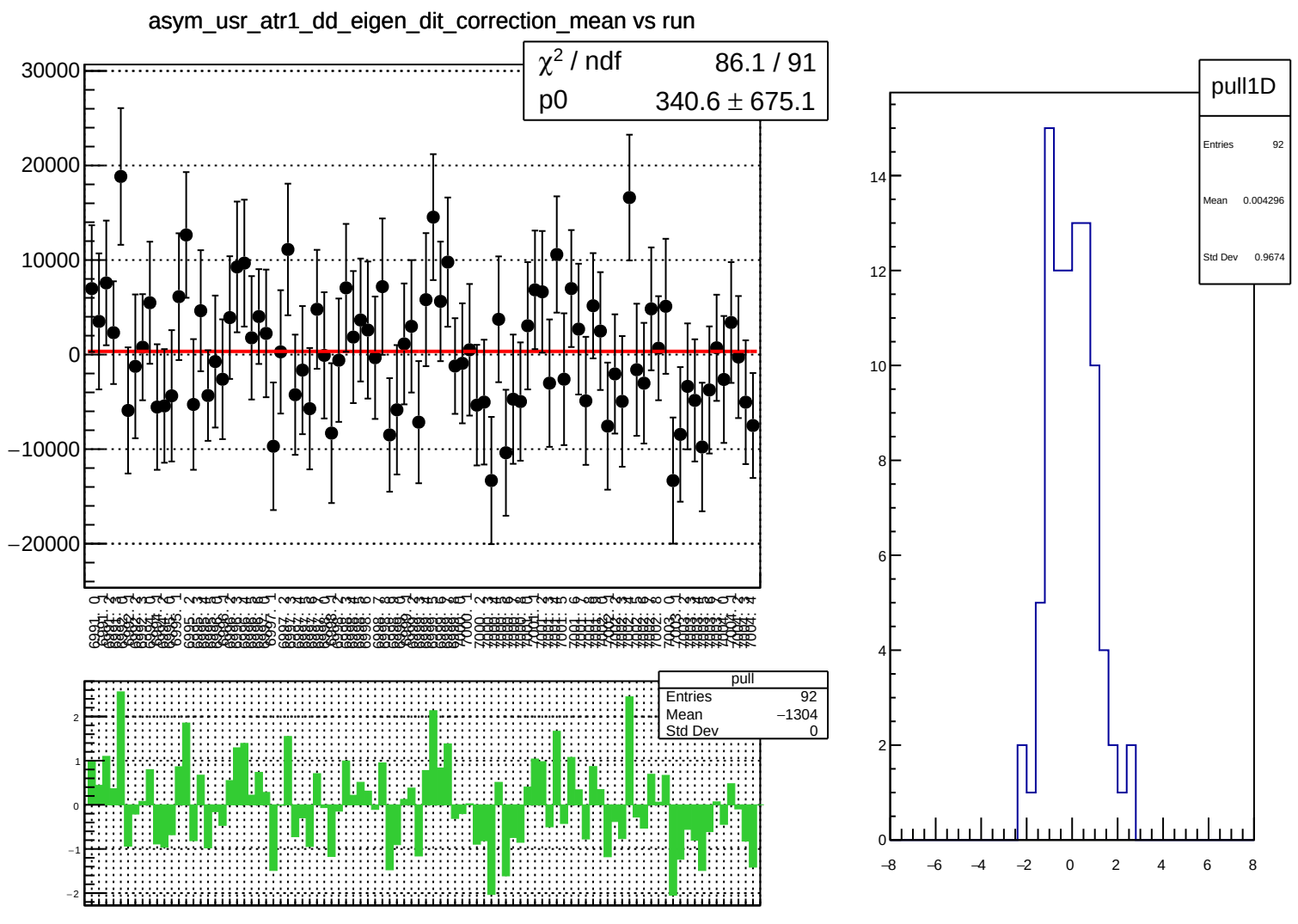

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 86.1 / 91
p0 340.6 ± 675.1
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1304
Std Dev 0
2
1
0
−1
−2

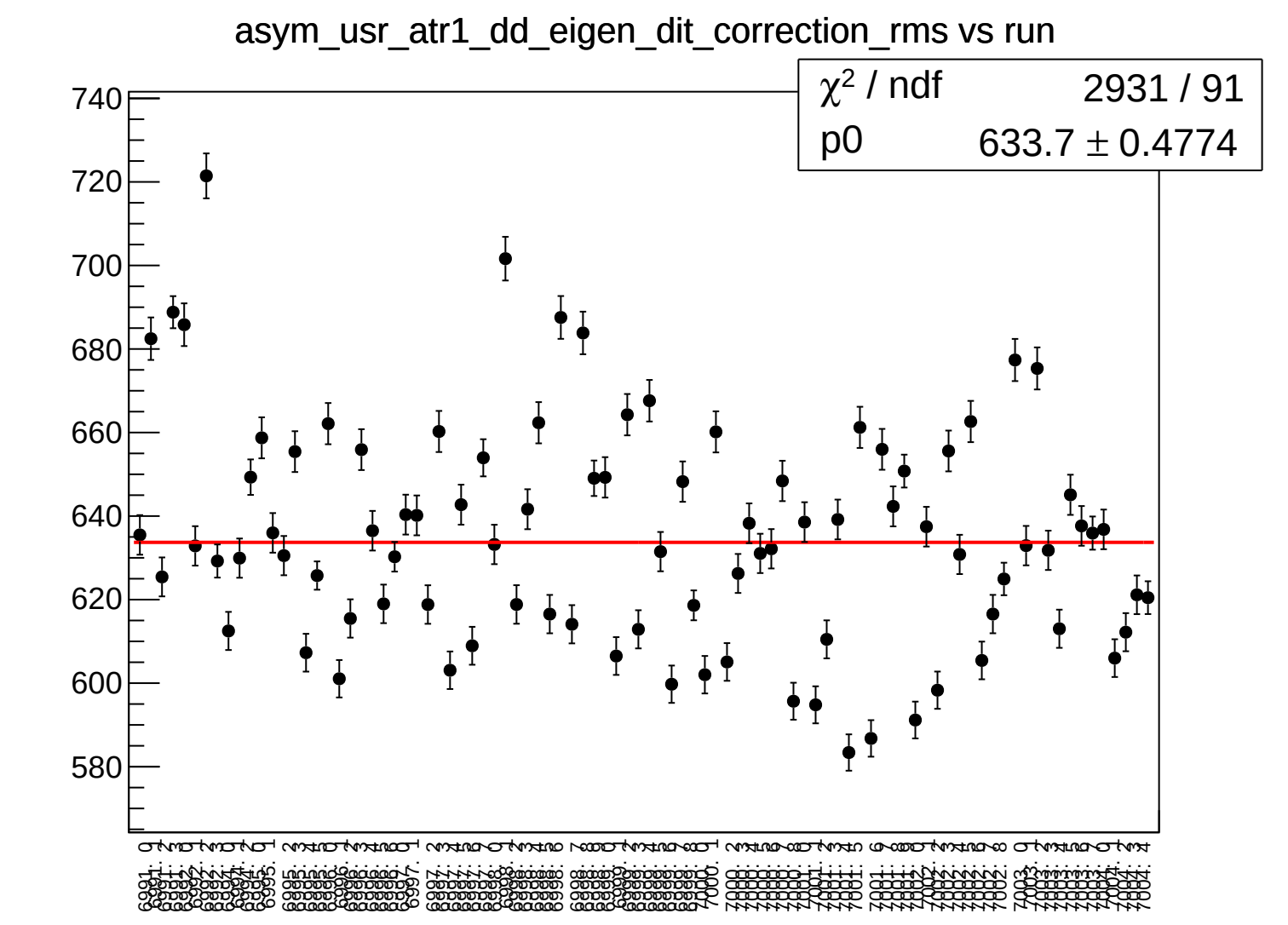

pull1D
Entries 92
Mean 0.004296
Std Dev 0.9674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

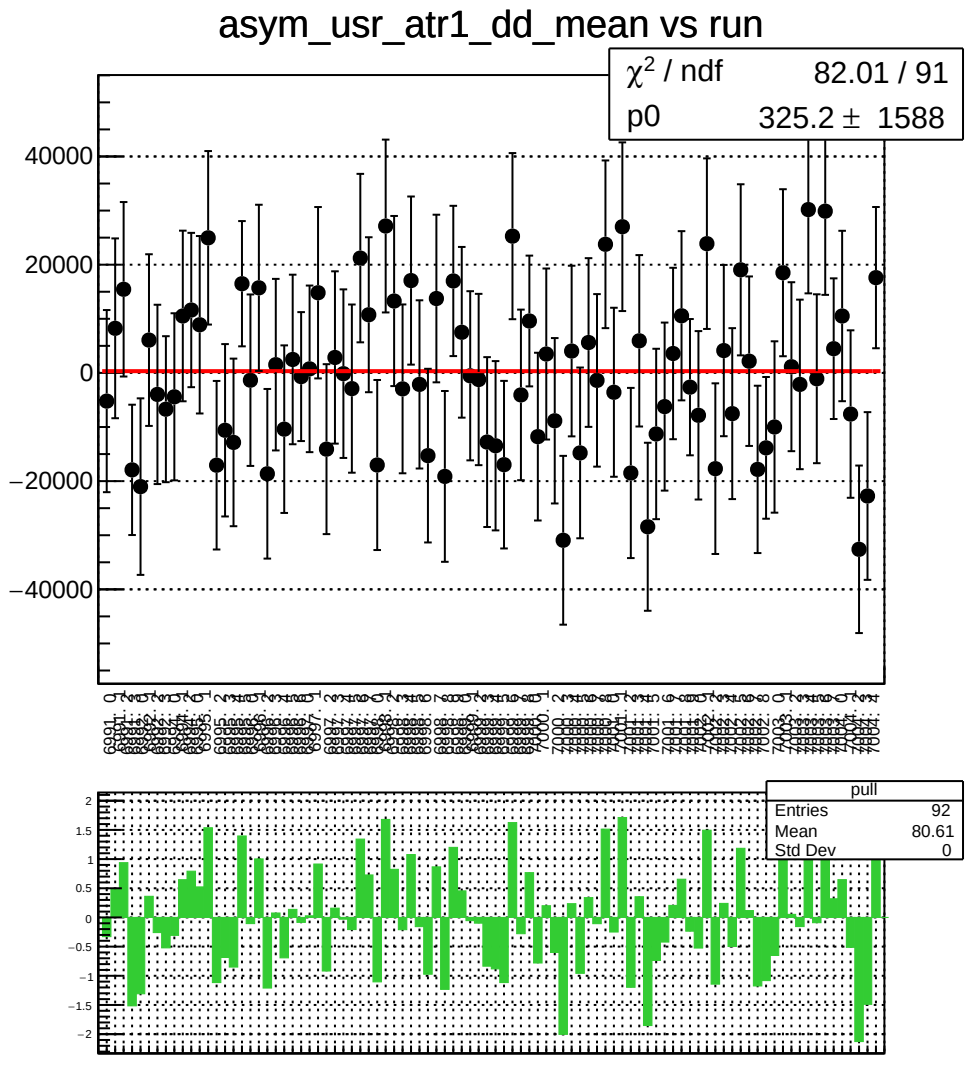

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 2931 / 91
p0 633.7 ± 0.4774
740
720
700
680
660
640
620
600
580

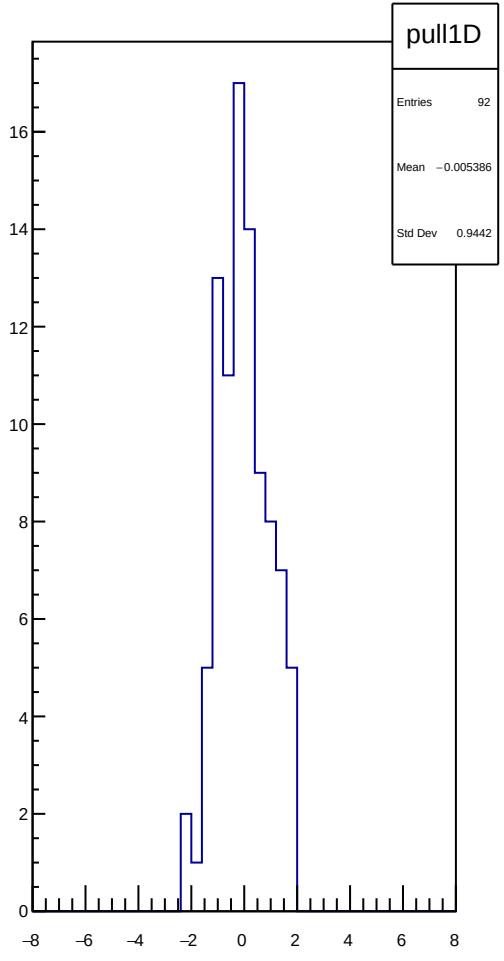

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 84.24 / 91
p0 624 ± 1440
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 1289
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002391
Std Dev 0.9569
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

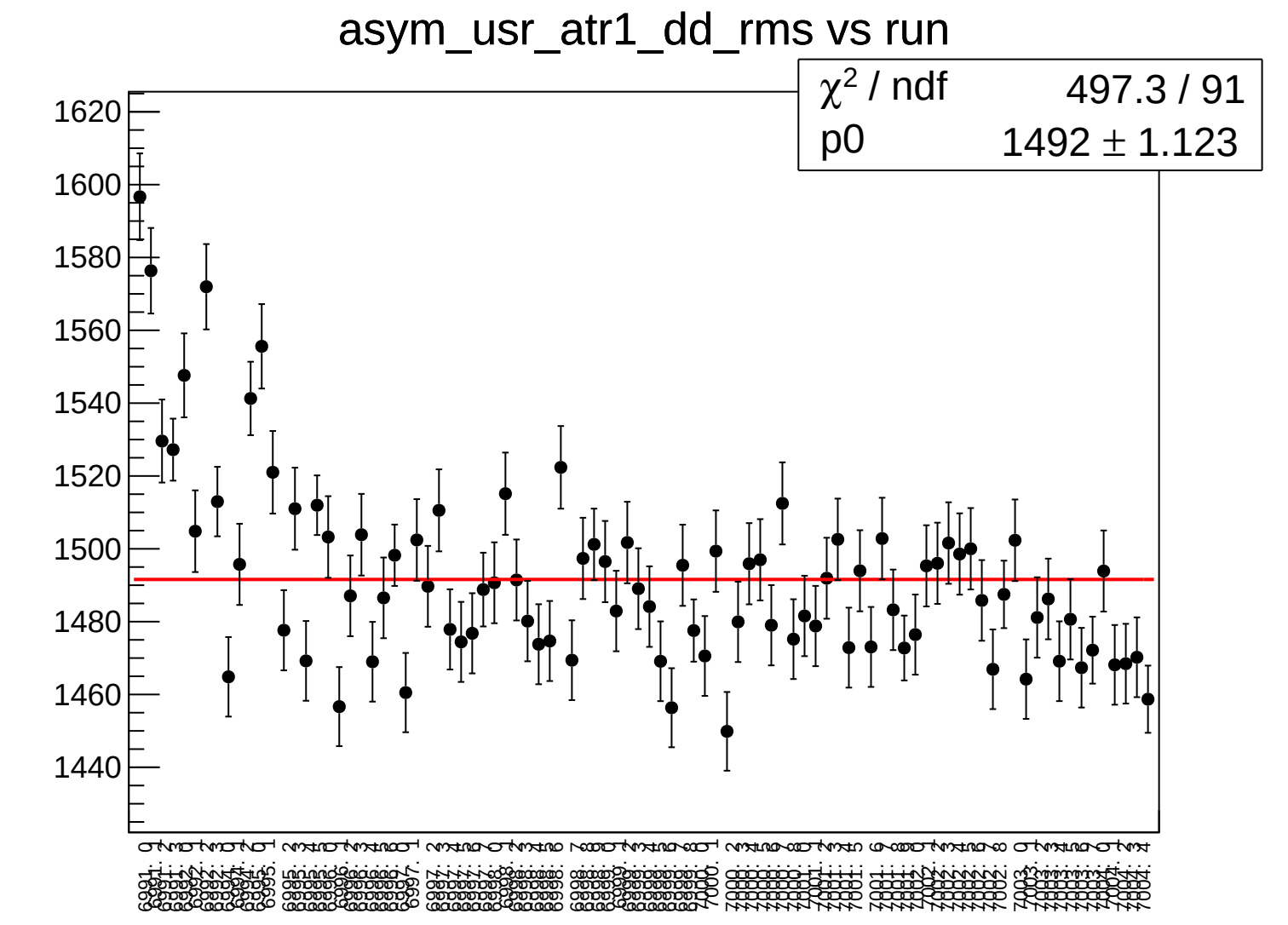

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 318.4 / 91
p0 1352 ± 1.018
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300

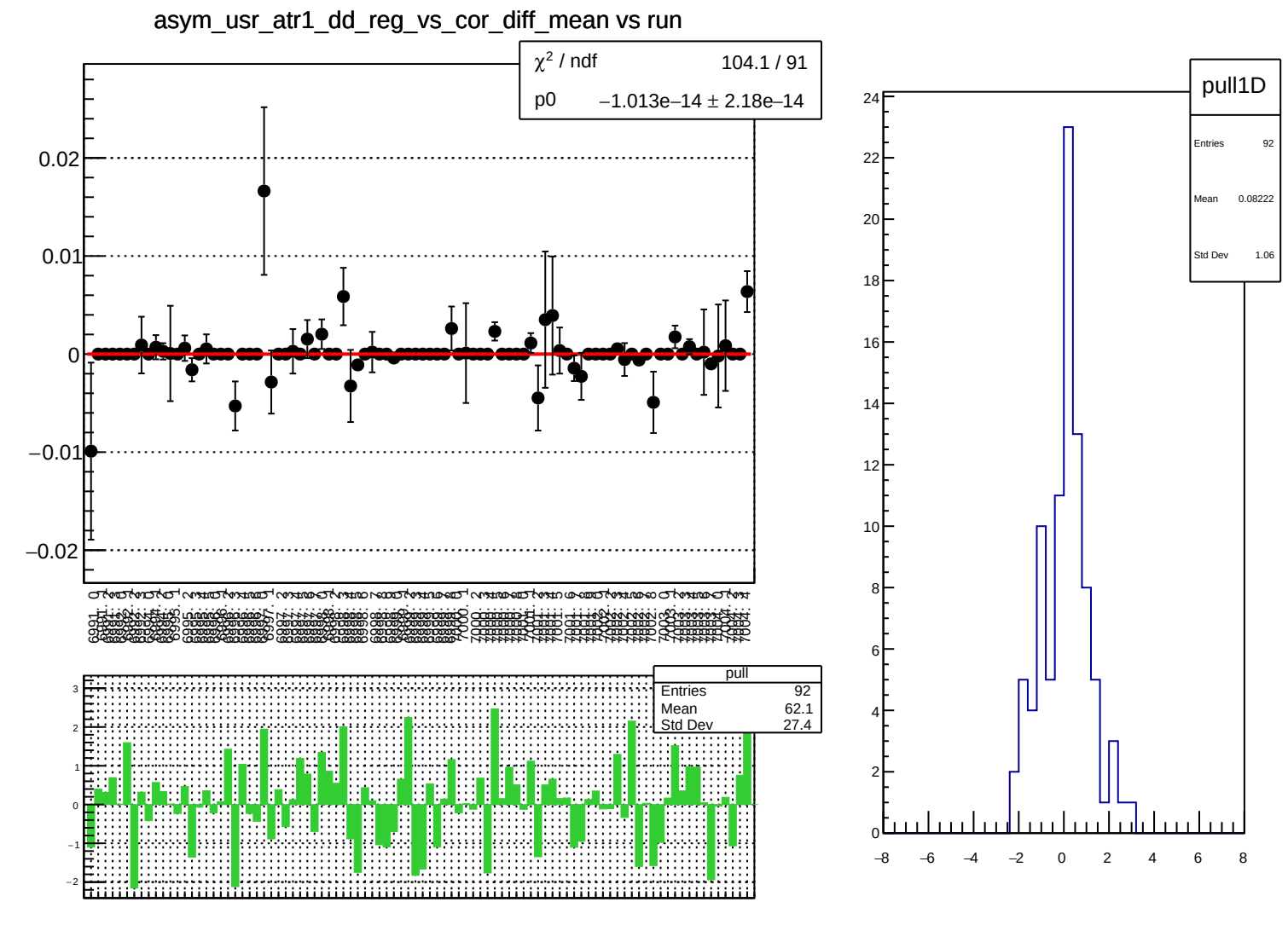

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.1 / 91
p0 340.6 ± 675.1
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1304
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.004296
Std Dev 0.9674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

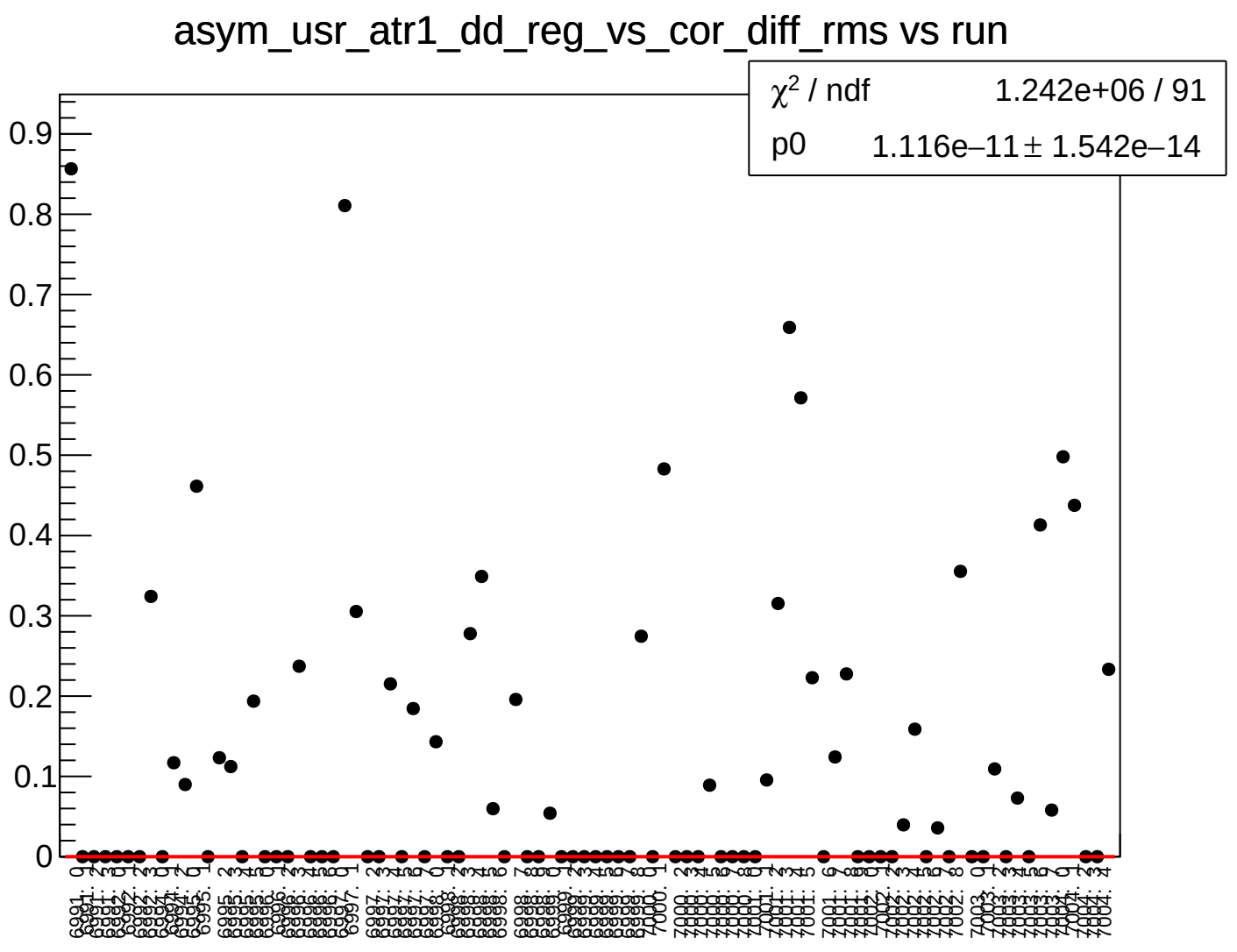

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2931 / 91
p0 633.7 ± 0.4774
740
720
700
680
660
640
620
600
580

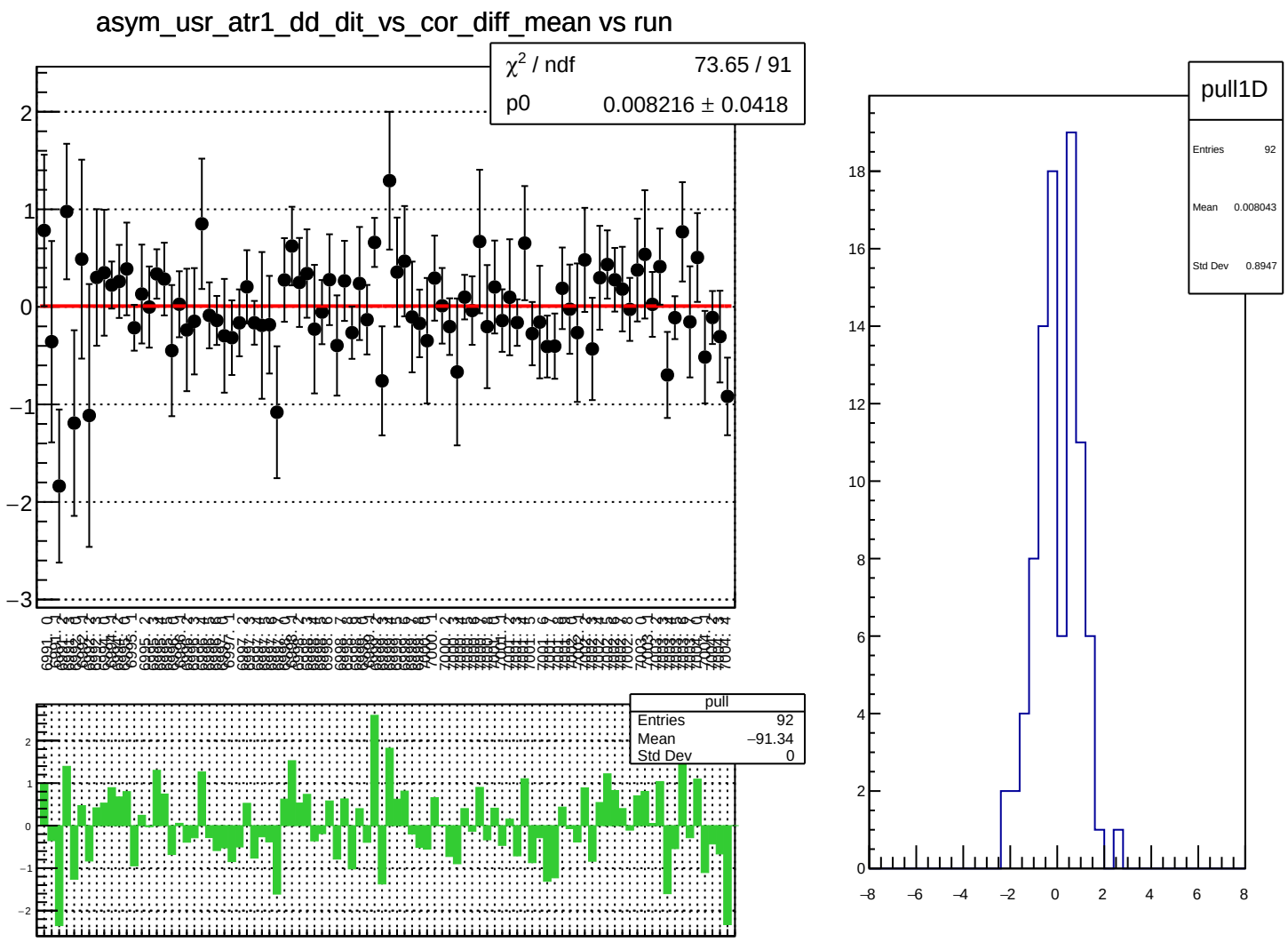

asym_usr_atr1_dd_mean vs run
χ² / ndf 82.01 / 91
p0 325.2 ± 1588
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 80.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

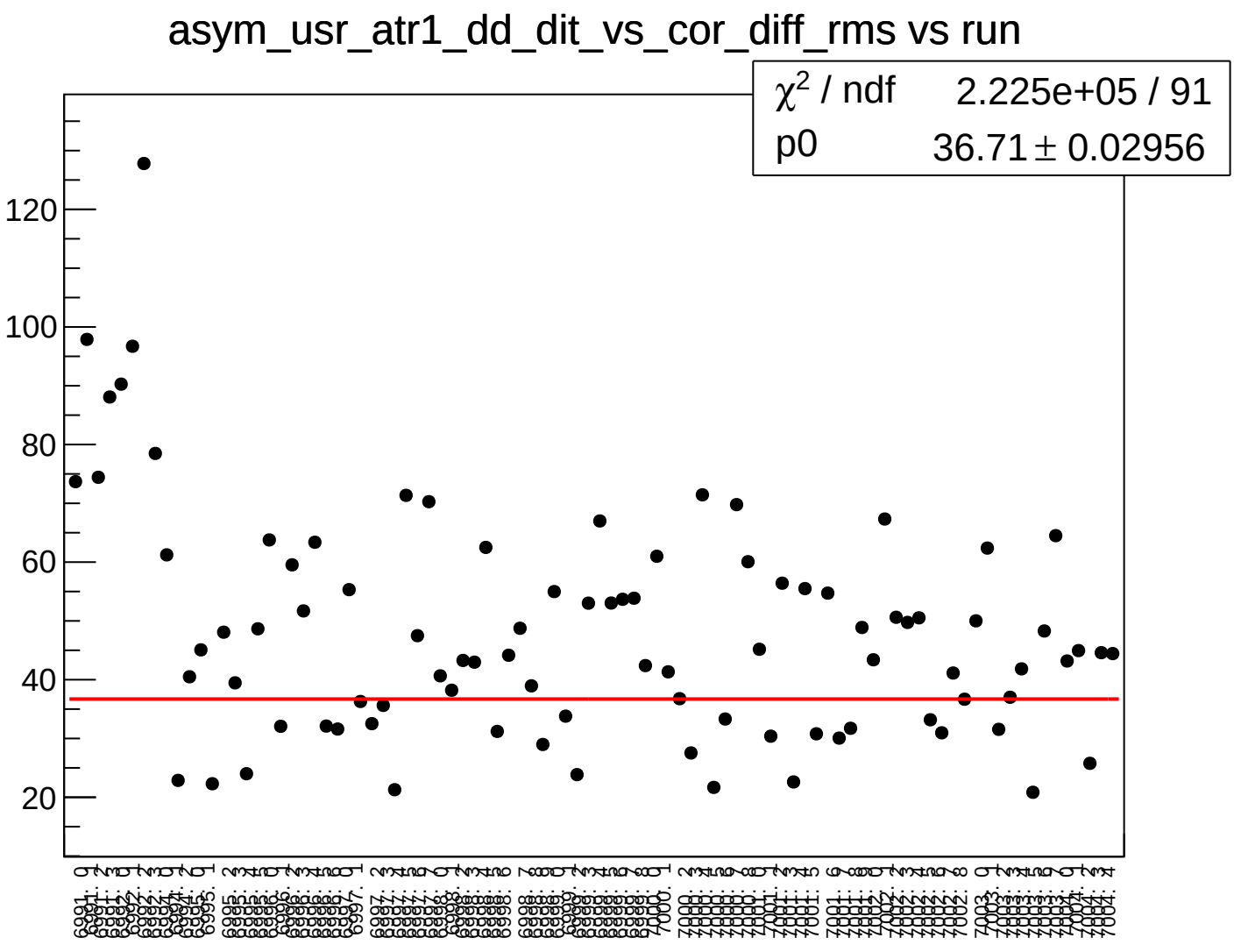

pull1D
Entries 92
Mean −0.005386
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

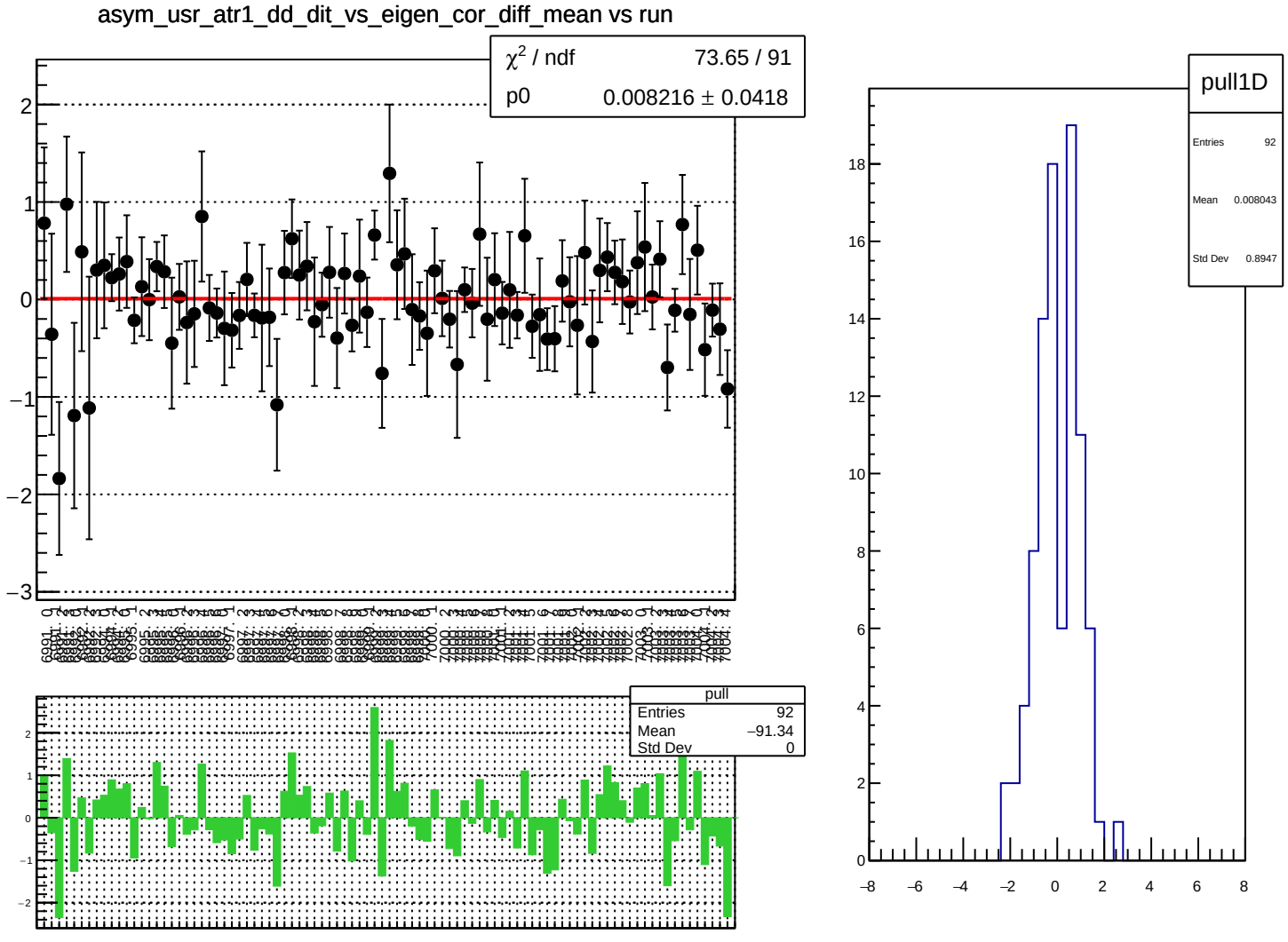

asym_usr_atr1_dd_rms vs run
χ² / ndf 497.3 / 91
p0 1492 ± 1.123
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

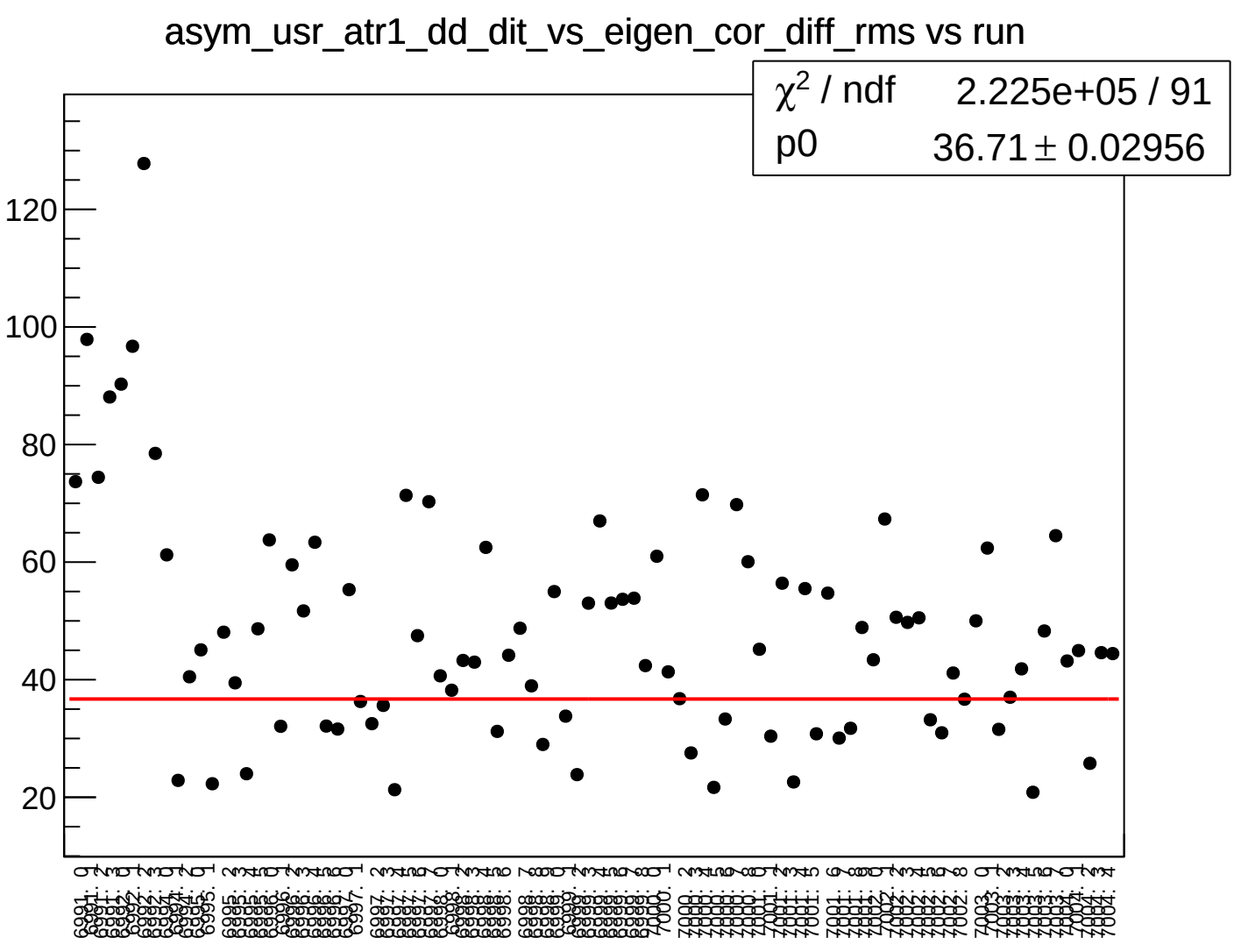

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 91
p0 −1.013e−14 ± 2.18e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 62.1
Std Dev 27.4
pull1D
Entries 92
Mean 0.08222
Std Dev 1.06

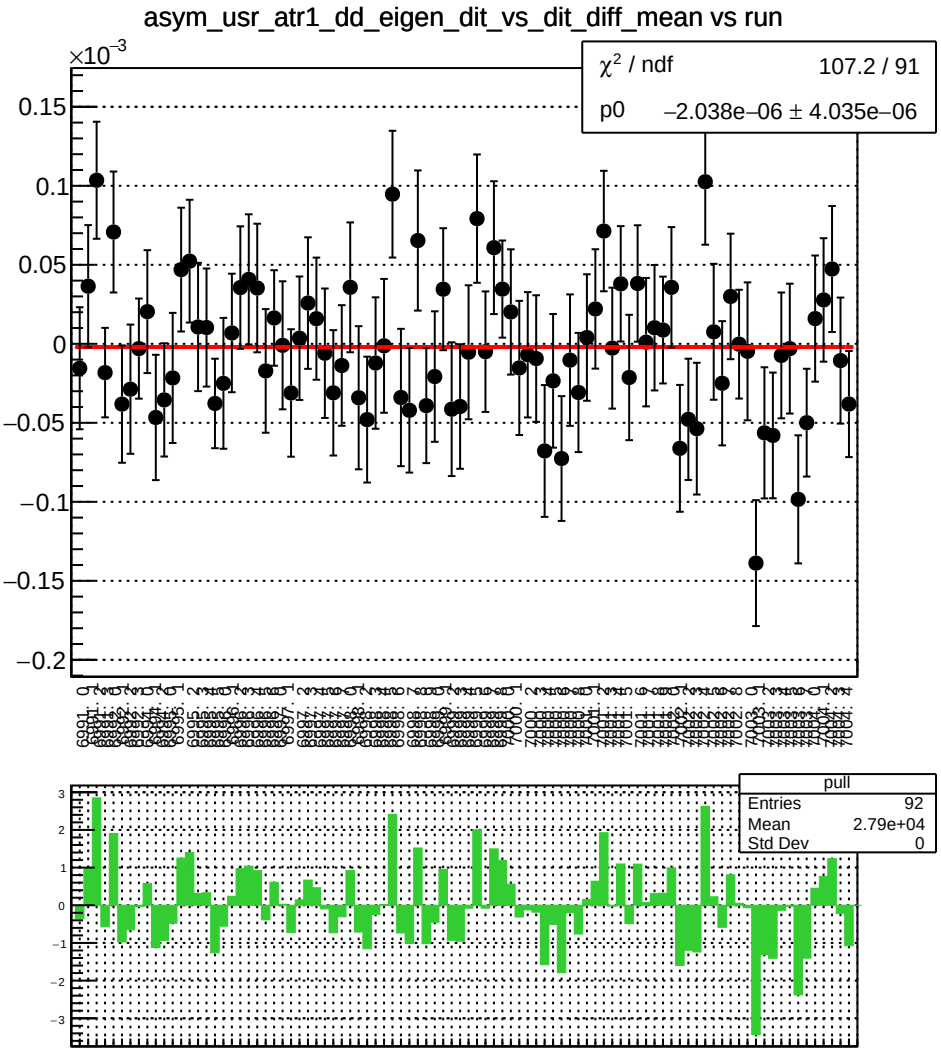

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.242e+06 / 91
p0 1.116e−11 ± 1.542e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

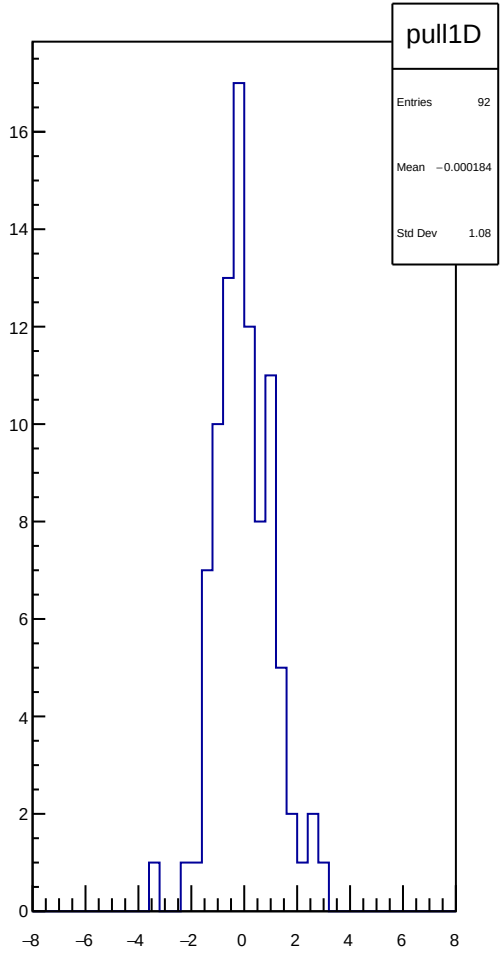

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.65 / 91
p0 0.008216 ± 0.0418
pull
Entries 92
Mean −91.34
Std Dev 0
pull1D
Entries 92
Mean 0.008043
Std Dev 0.8947

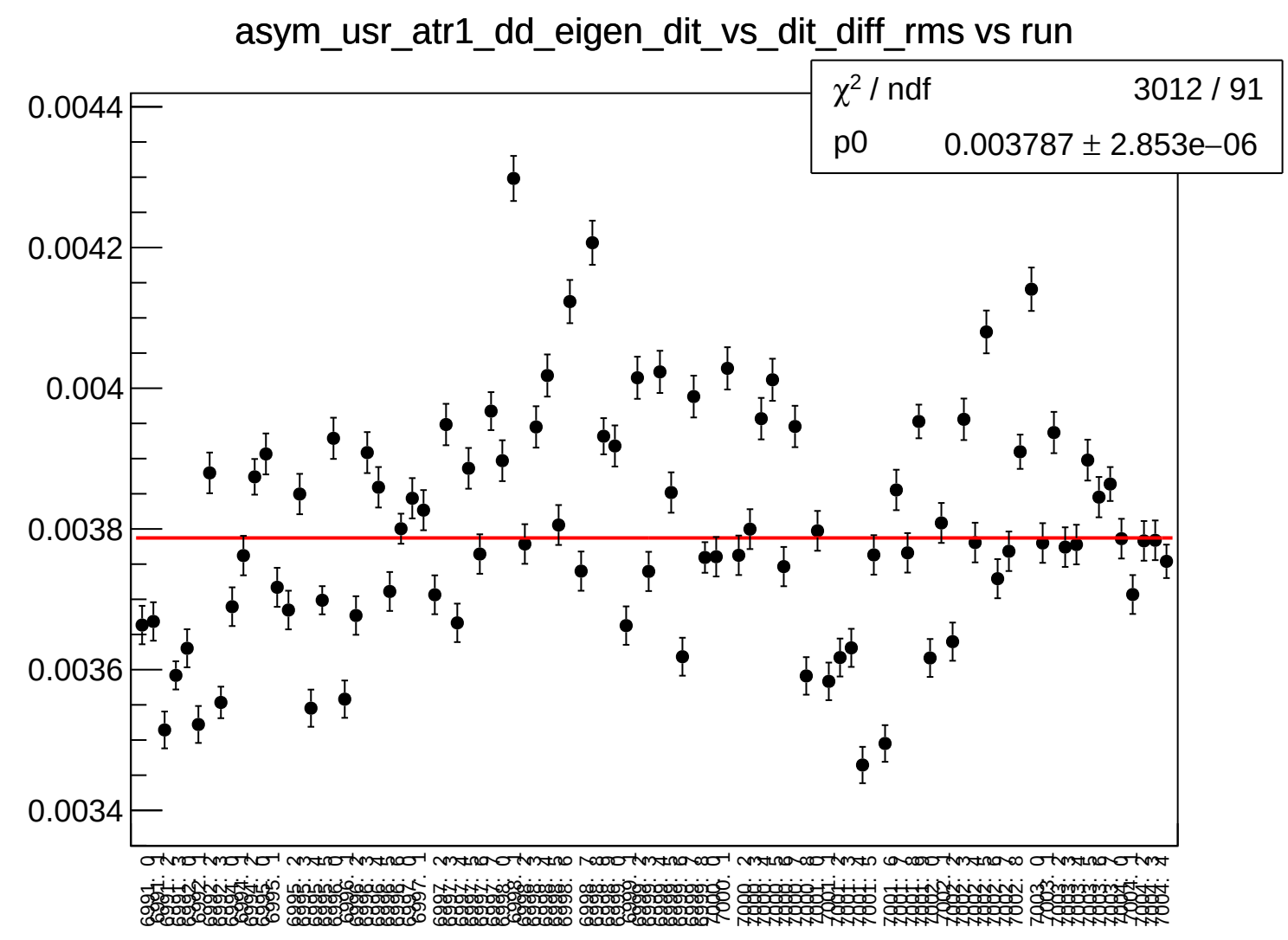

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.225e+05 / 91
p0 36.71 ± 0.02956
120
100
80
60
40
20

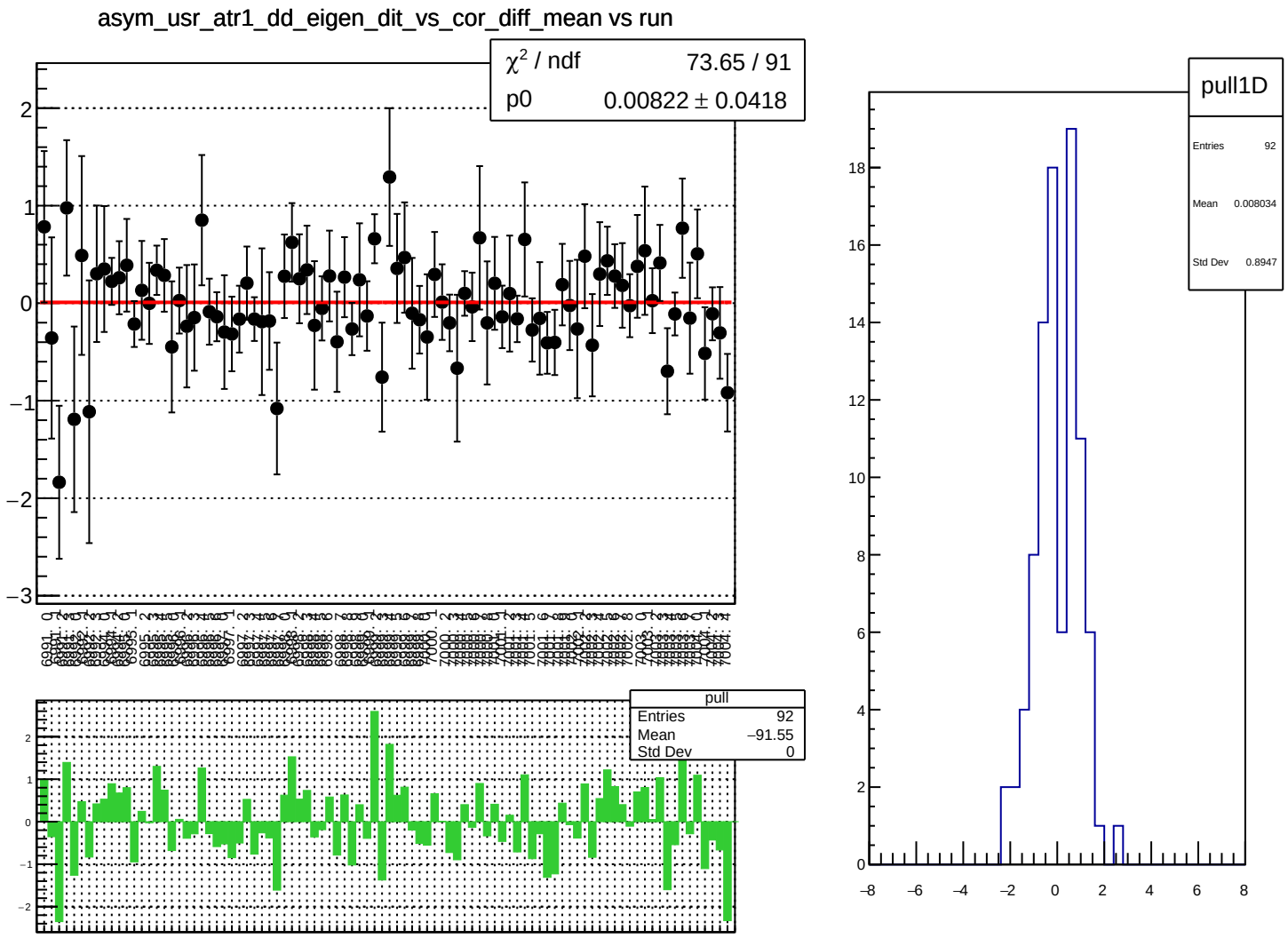

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.65 / 91
p0 0.008216 ± 0.0418
pull
Entries 92
Mean −91.34
Std Dev 0
pull1D
Entries 92
Mean 0.008043
Std Dev 0.8947

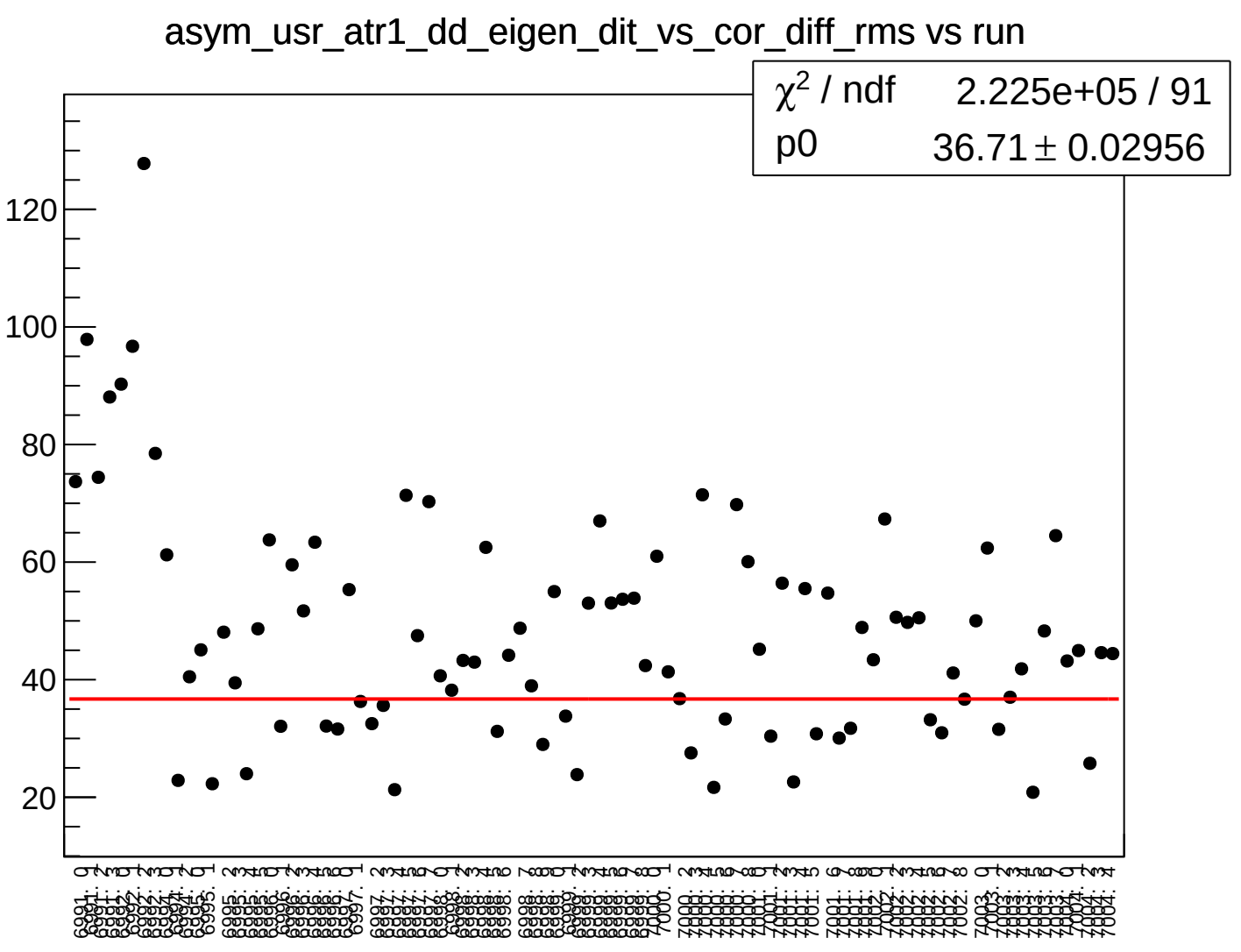

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.225e+05 / 91
p0 36.71 ± 0.02956
120
100
80
60
40
20

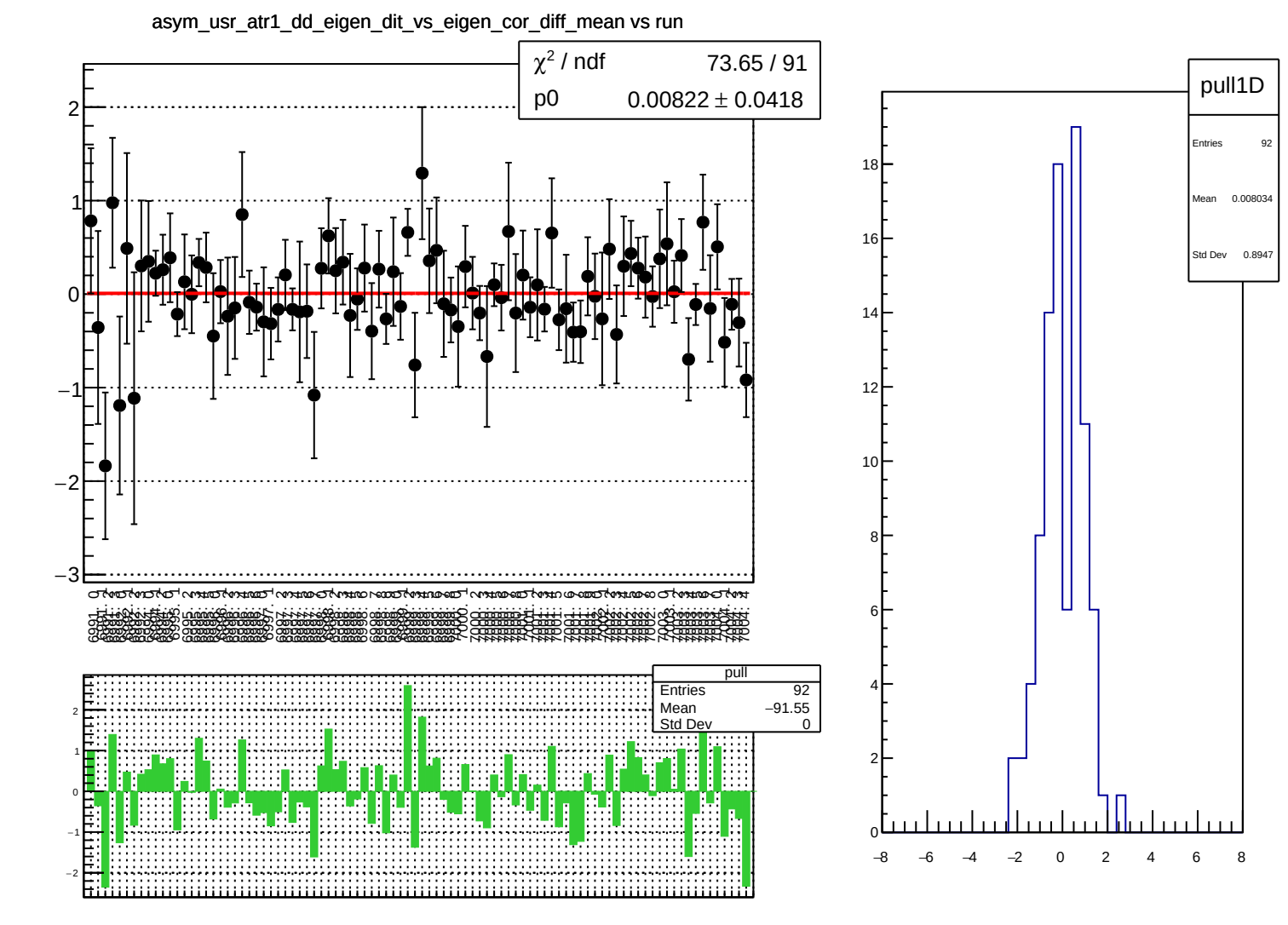

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 107.2 / 91
p0 −2.038e−06 ± 4.035e−06
pull
Entries 92
Mean 2.79e+04
Std Dev 0

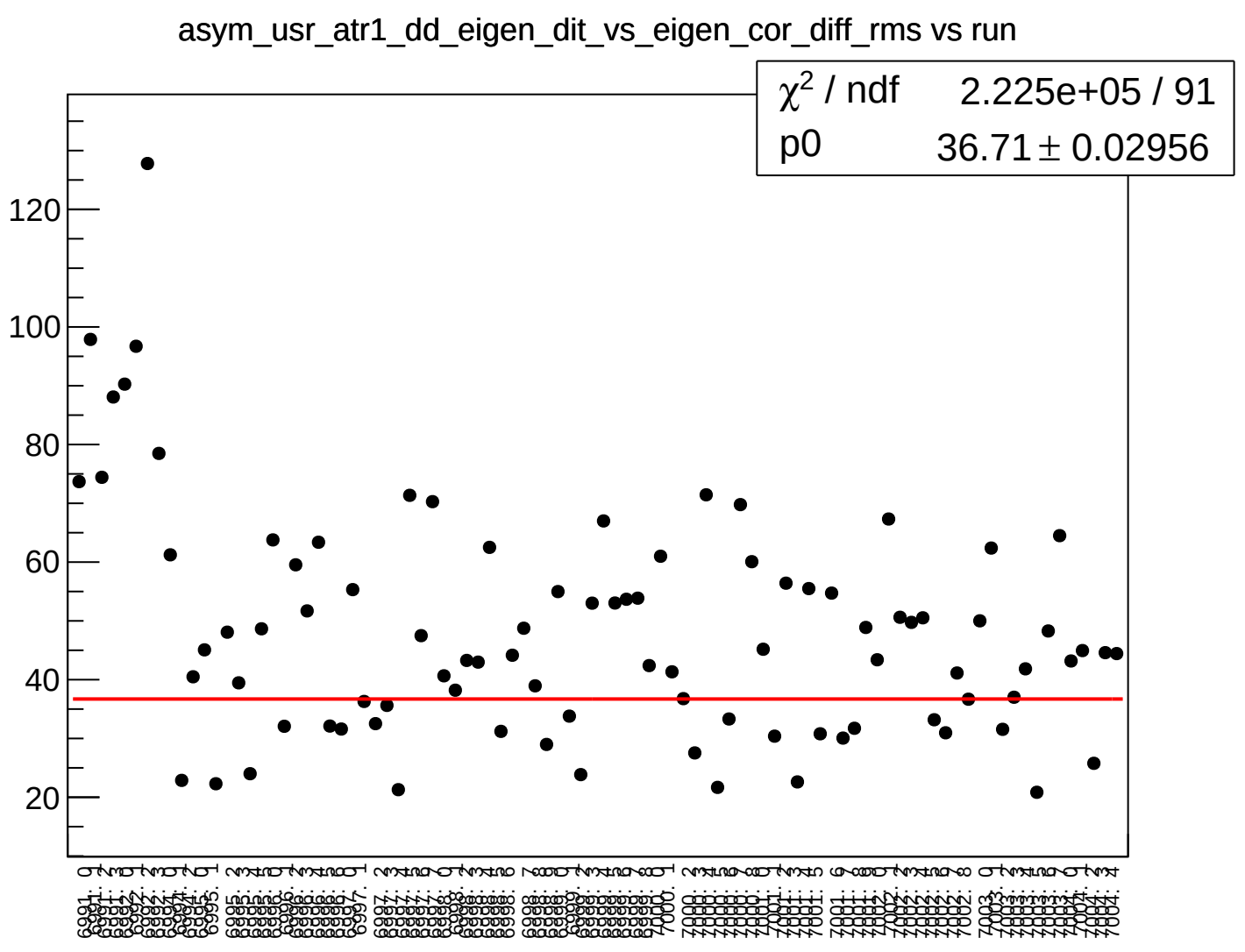

pull1D
Entries 92
Mean −0.000184
Std Dev 1.08

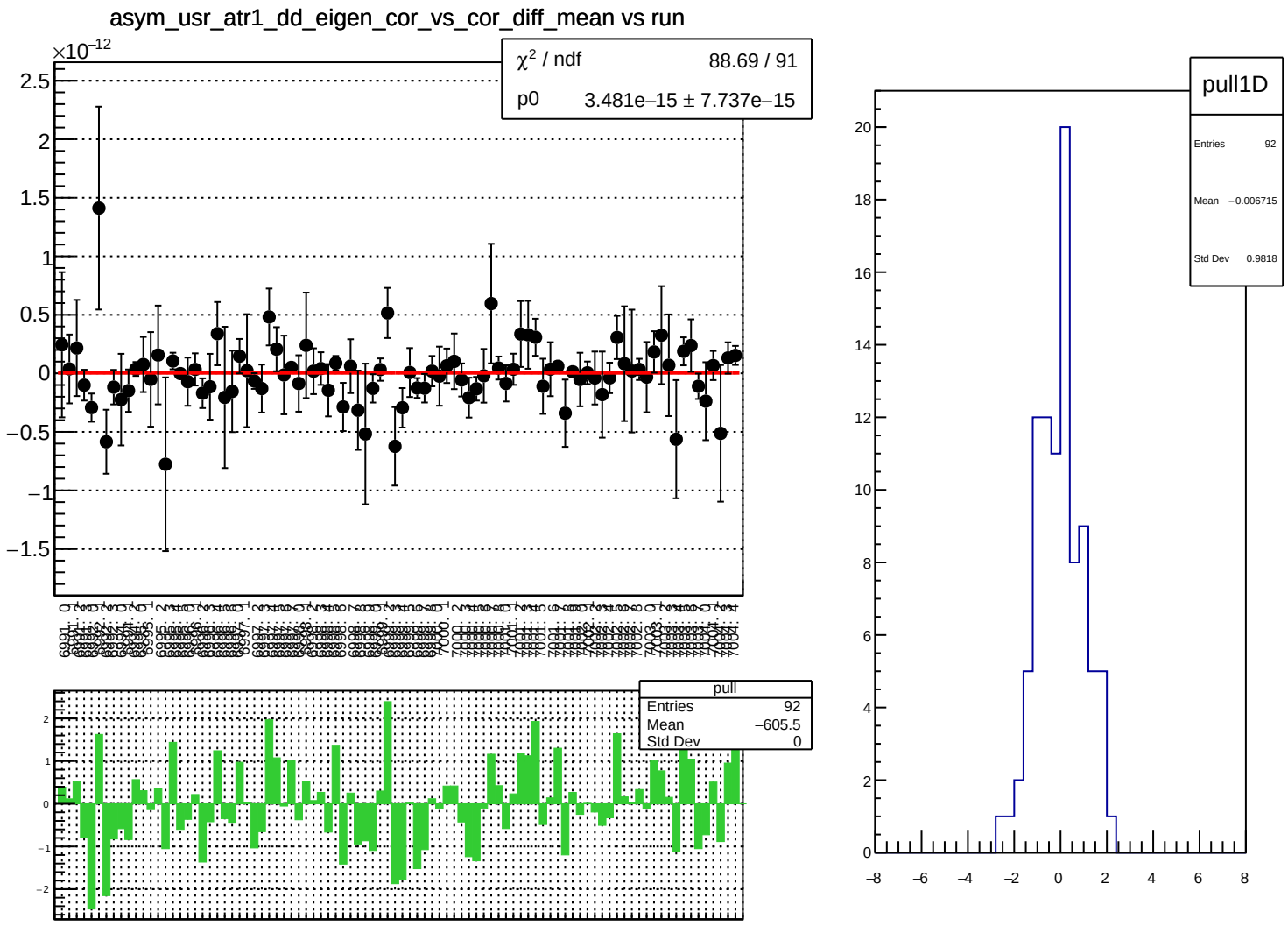

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3012 / 91
p0 0.003787 ± 2.853e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

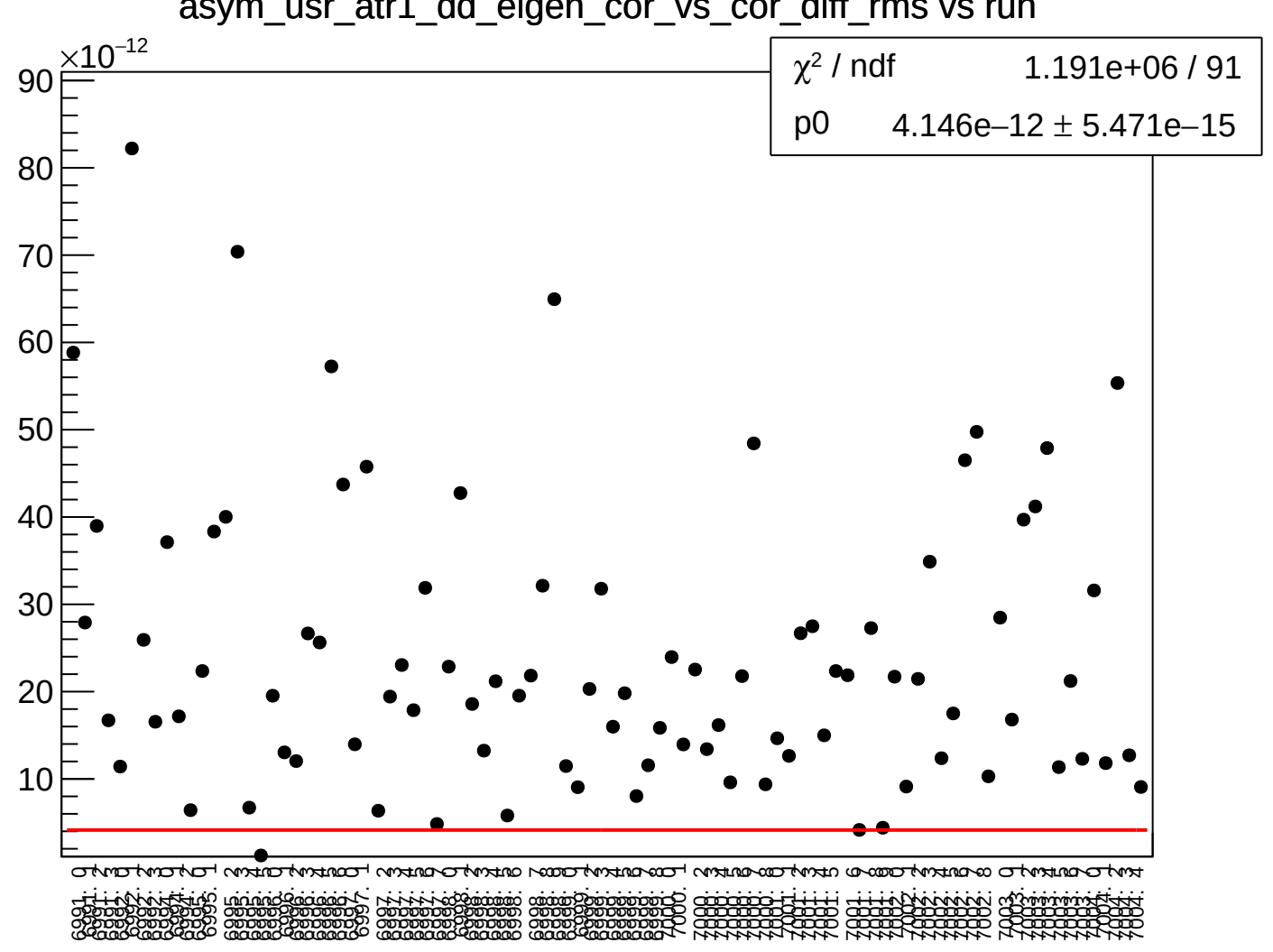

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.65 / 91
p0 0.00822 ± 0.0418
pull
Entries 92
Mean −91.55
Std Dev 0
pull1D
Entries 92
Mean 0.008034
Std Dev 0.8947

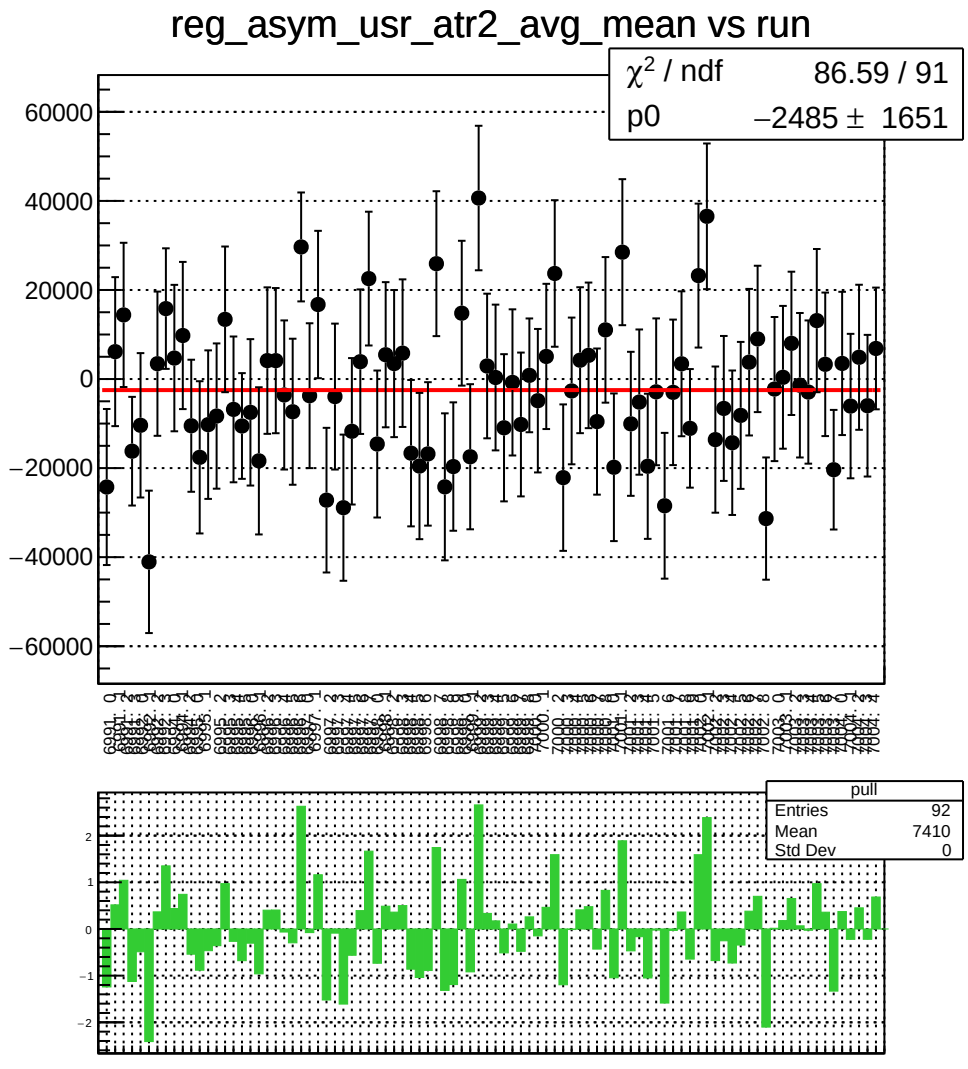

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.225e+05 / 91
p0 36.71 ± 0.02956
120
100
80
60
40
20

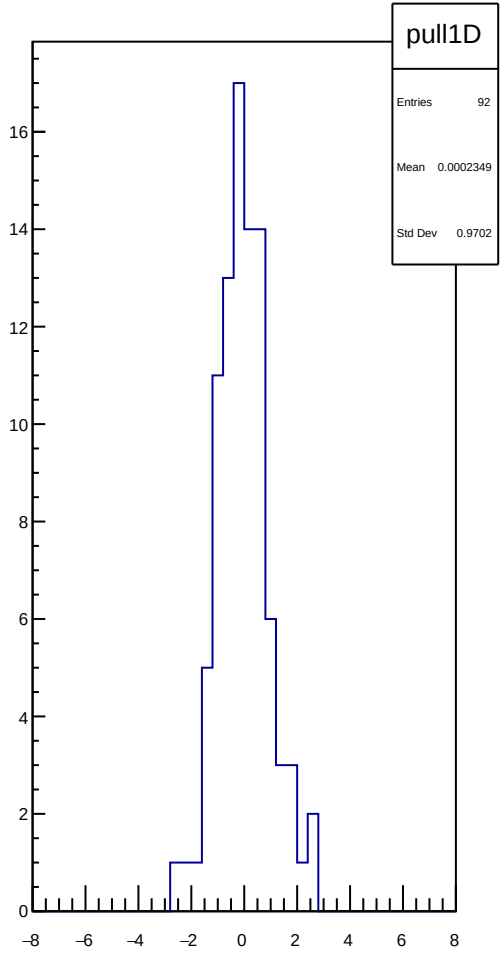

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.65 / 91
p0 0.00822 ± 0.0418
pull
Entries 92
Mean −91.55
Std Dev 0
pull1D
Entries 92
Mean 0.008034
Std Dev 0.8947

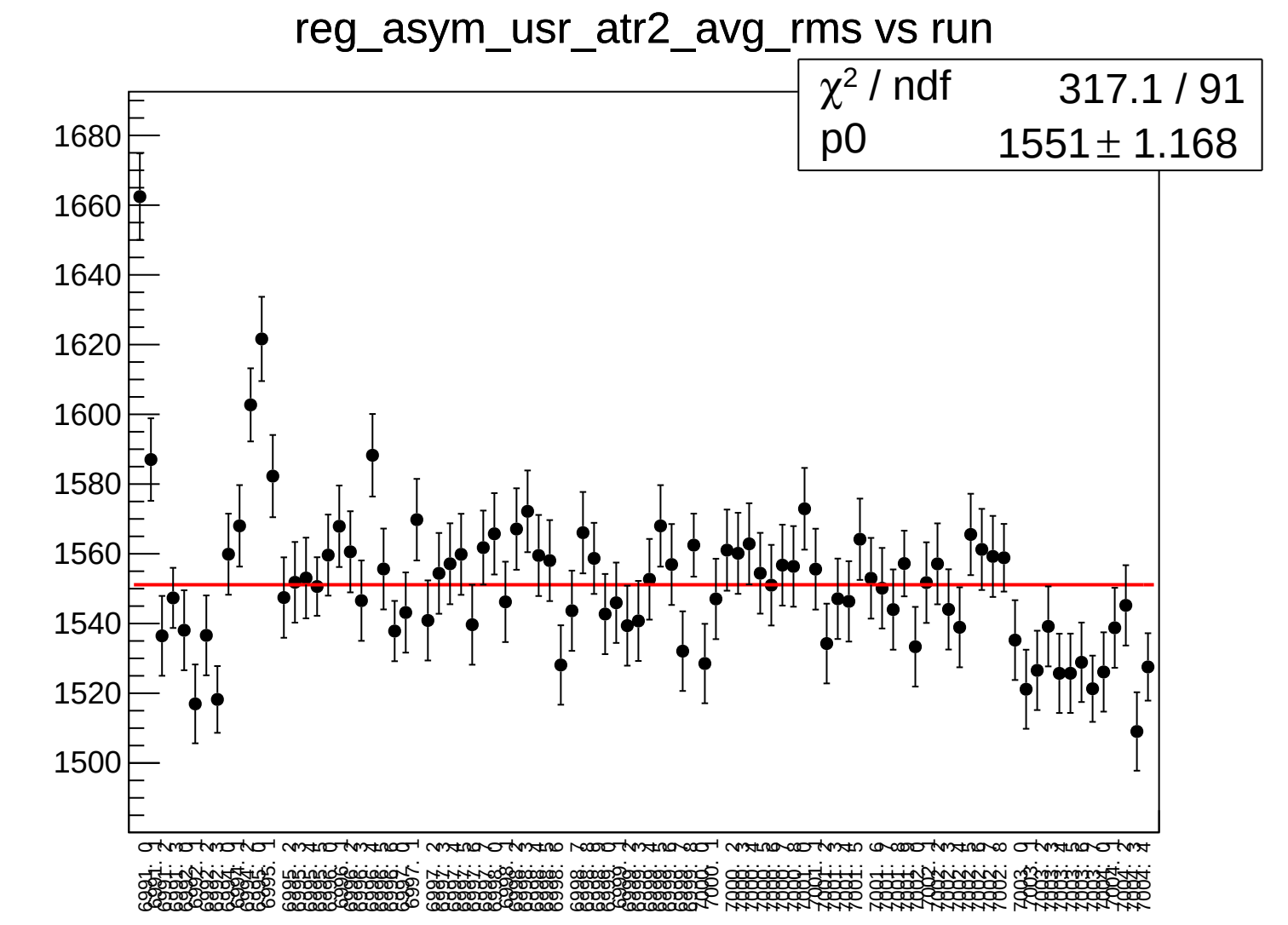

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.225e+05 / 91
p0 36.71 ± 0.02956
120
100
80
60
40
20

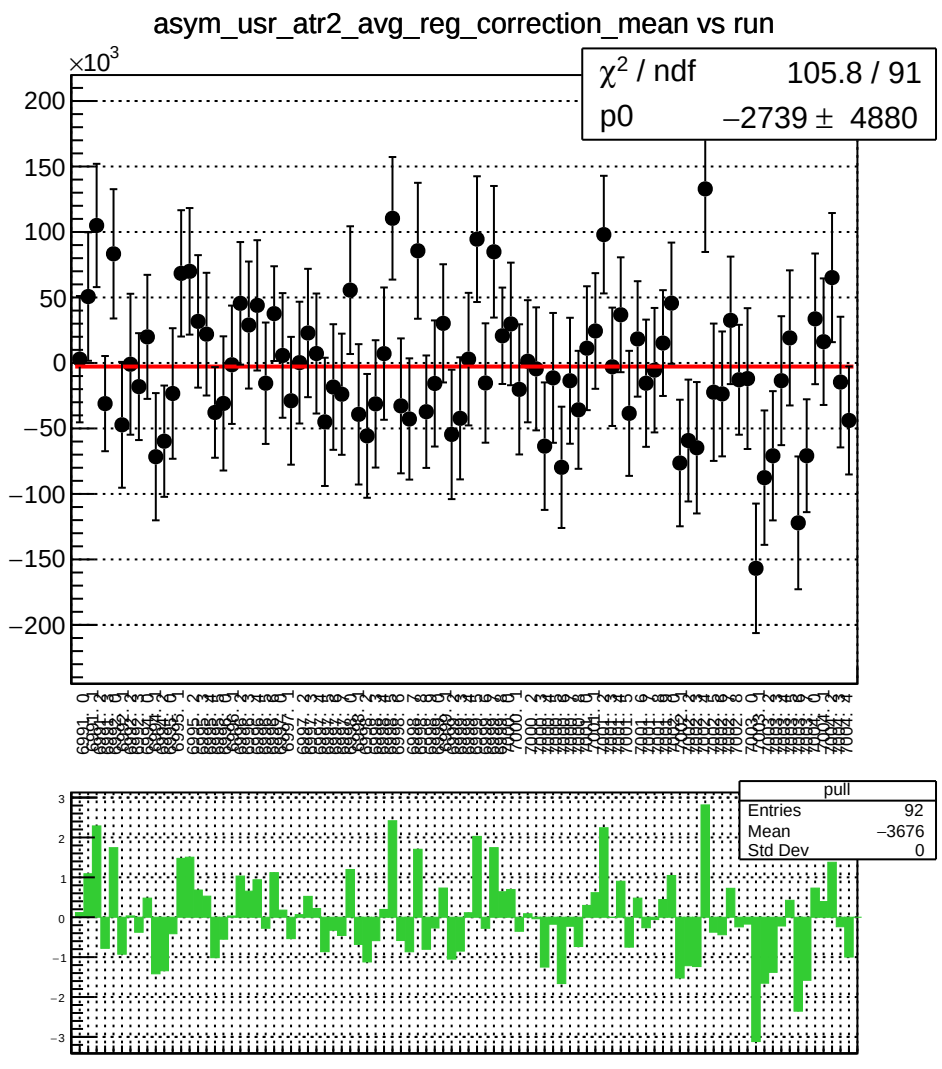

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.69 / 91
p0 3.481e−15 ± 7.737e−15
pull
Entries 92
Mean −605.5
Std Dev 0
pull1D
Entries 92
Mean −0.006715
Std Dev 0.9818

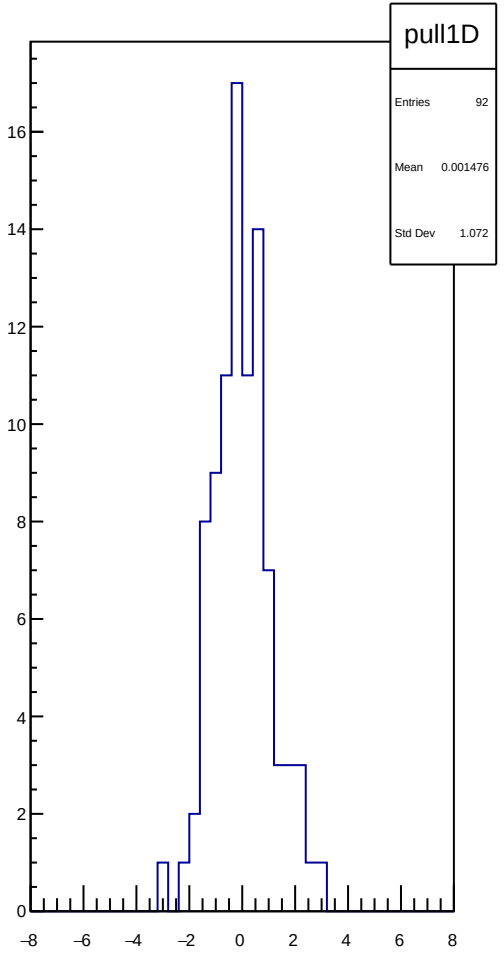

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 1.191e+06 / 91
p0 4.146e−12 ± 5.471e−15

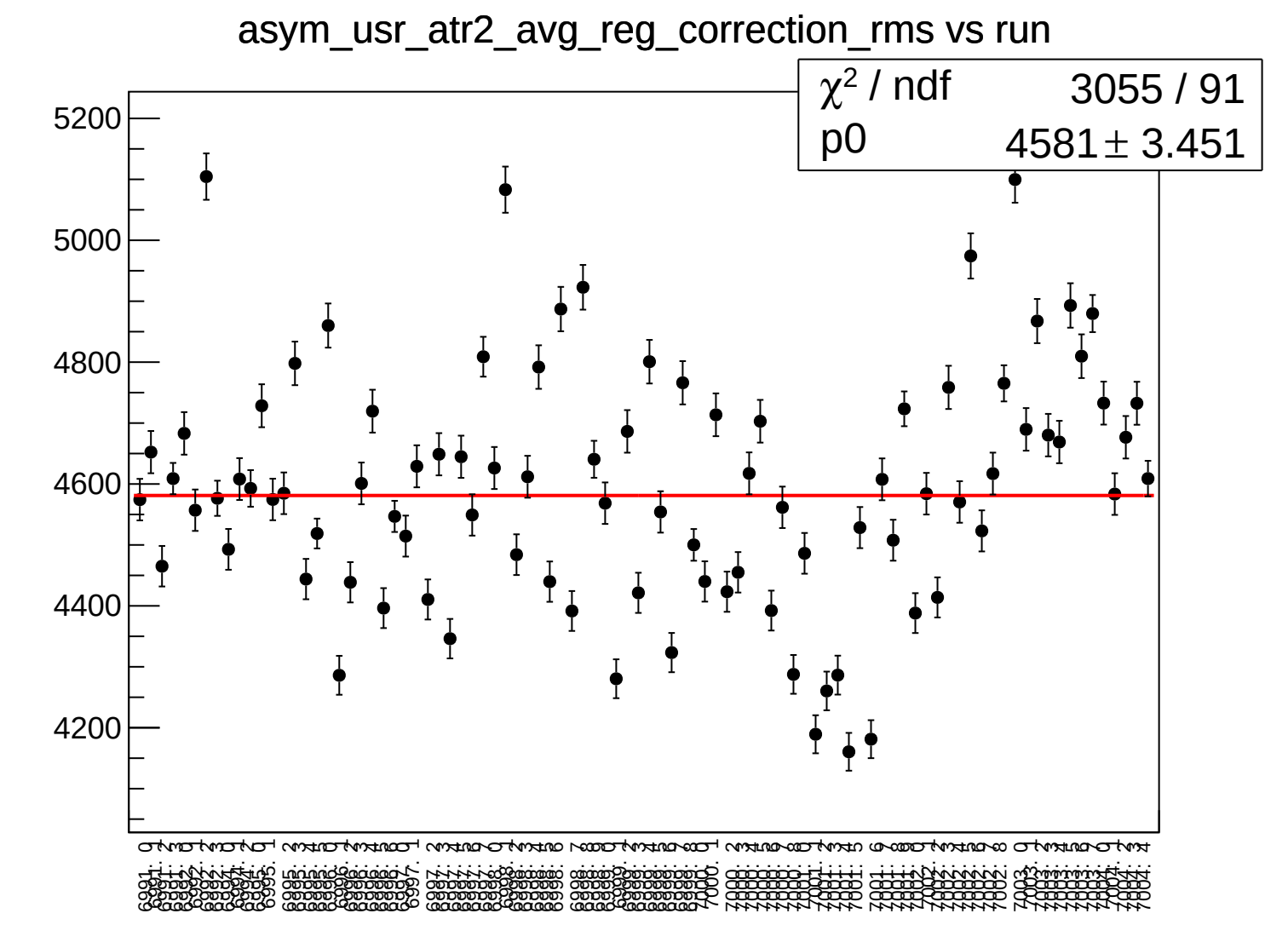

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.59 / 91
p0 −2485 ± 1651
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 7410
Std Dev 0
2
1
0
−1
−2

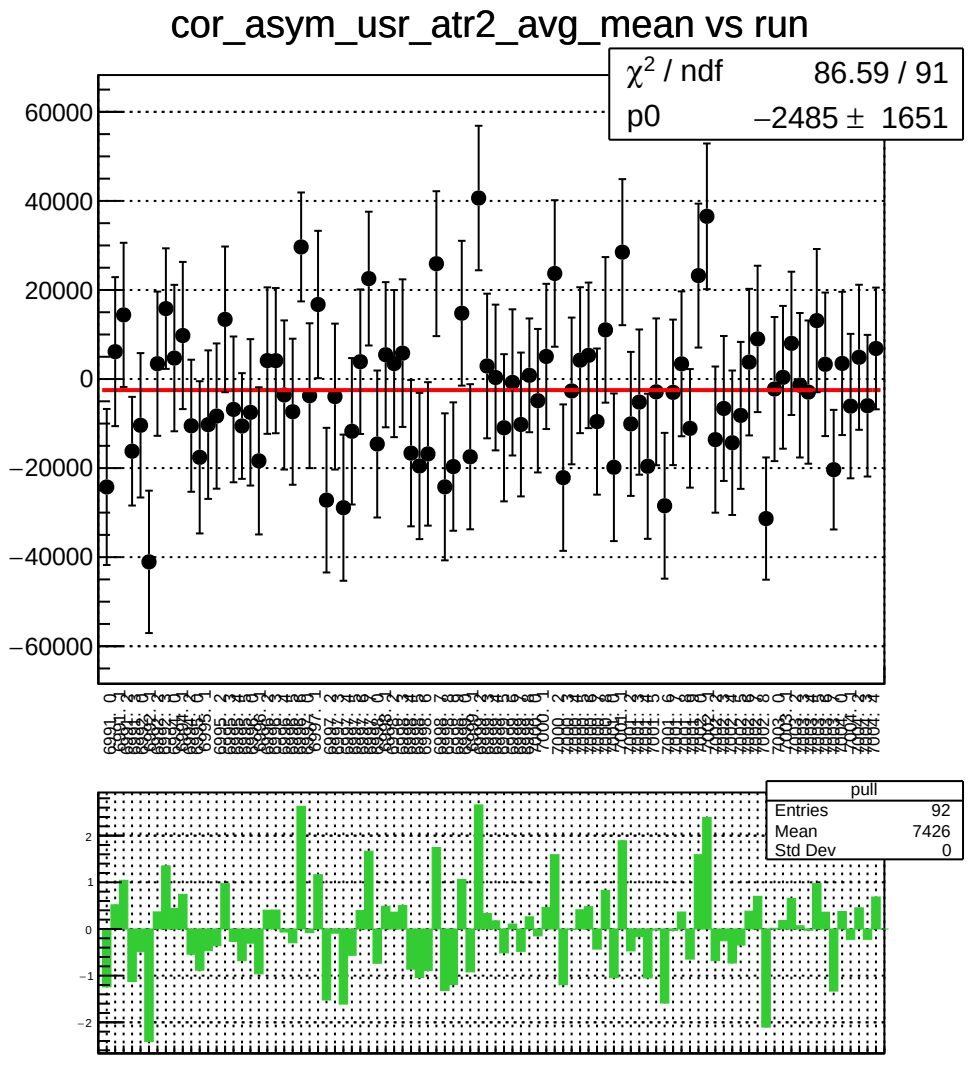

pull1D
Entries 92
Mean 0.0002349
Std Dev 0.9702
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

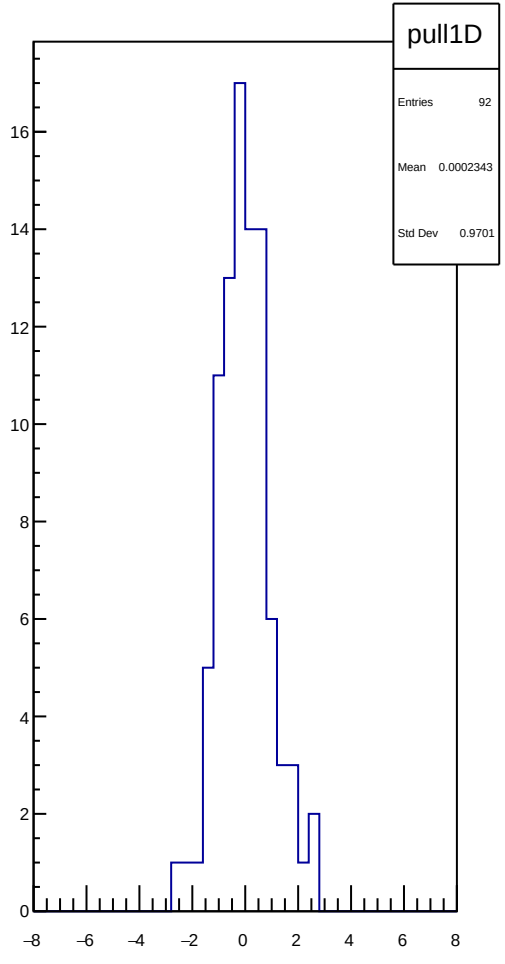

reg_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 317.1 / 91
p0 1551 ± 1.168
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500

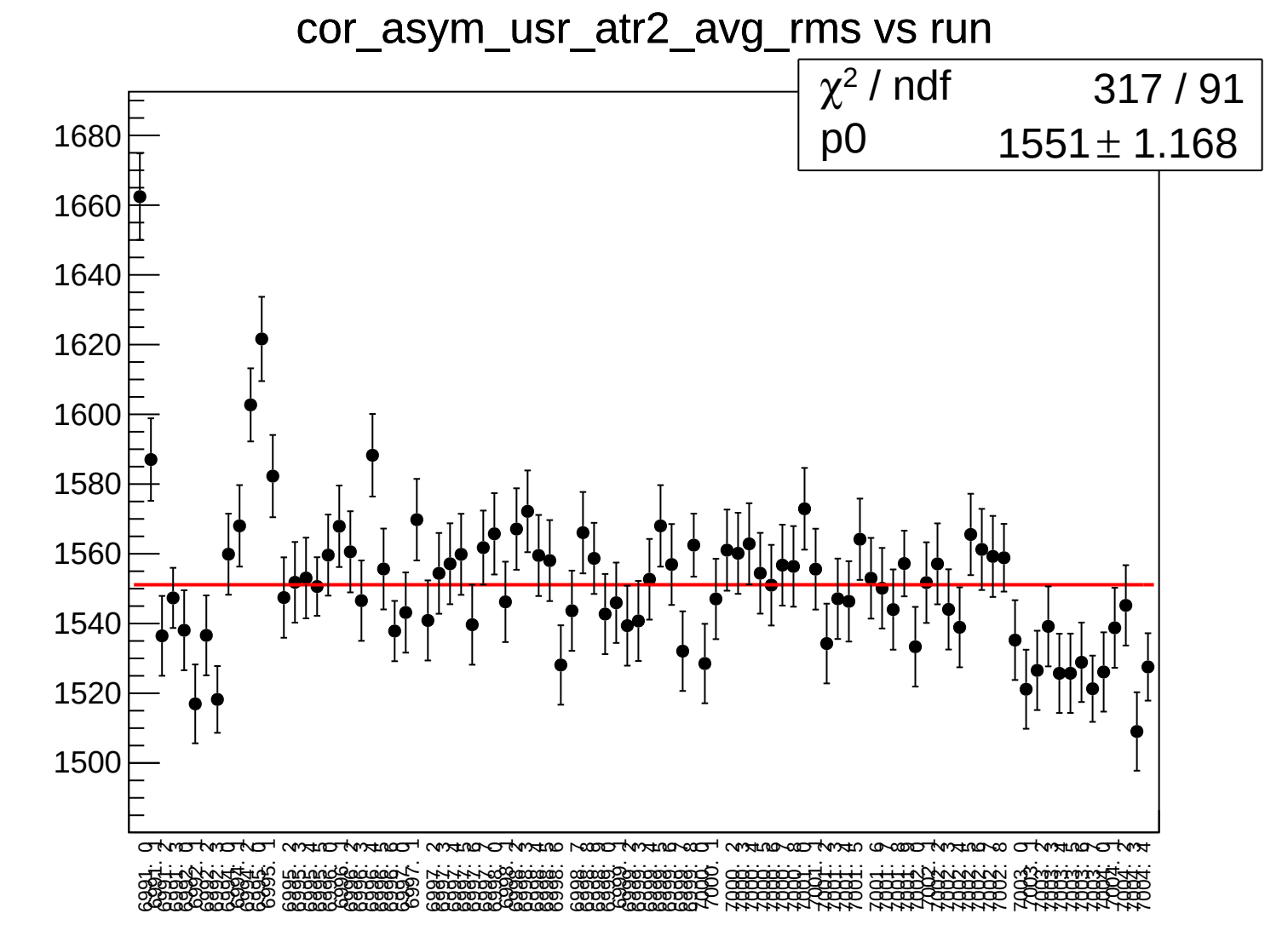

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 105.8 / 91
p0 −2739 ± 4880
pull
Entries 92
Mean −3676
Std Dev 0

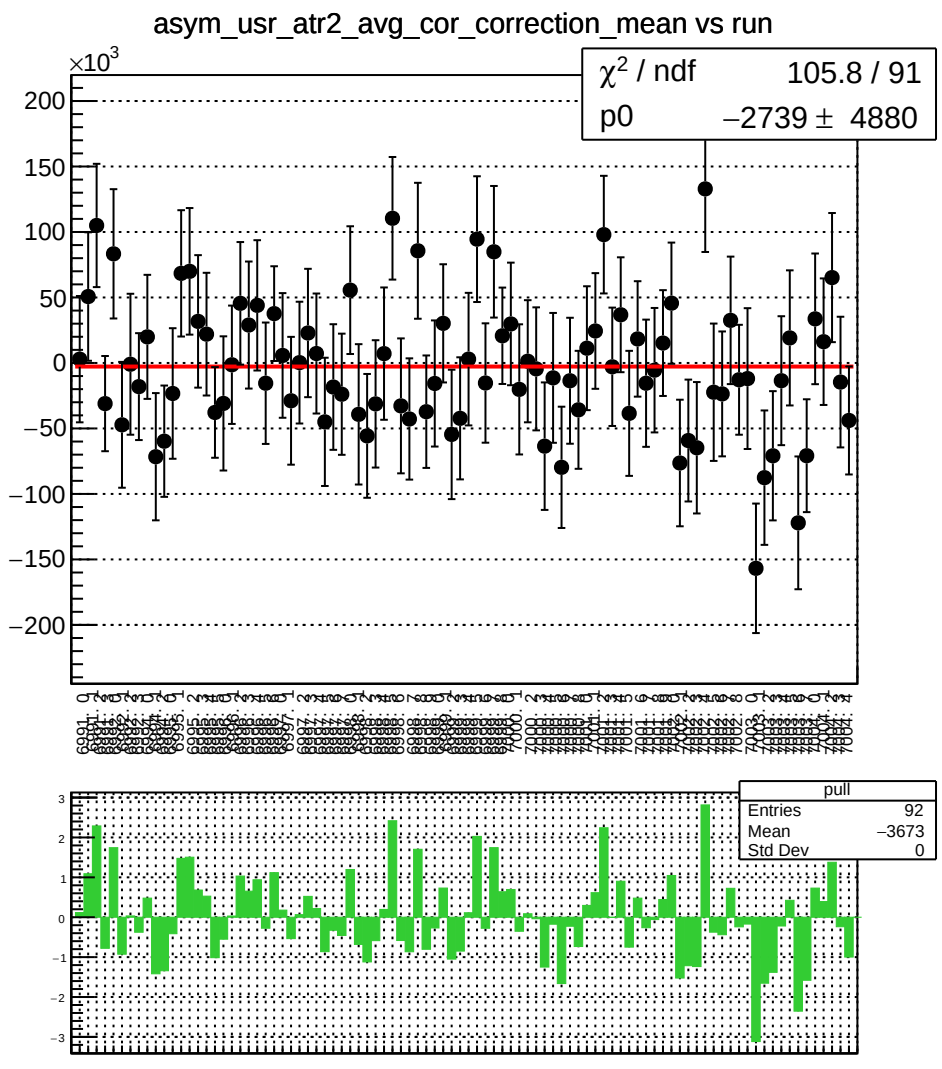

pull1D
Entries 92
Mean 0.001476
Std Dev 1.072

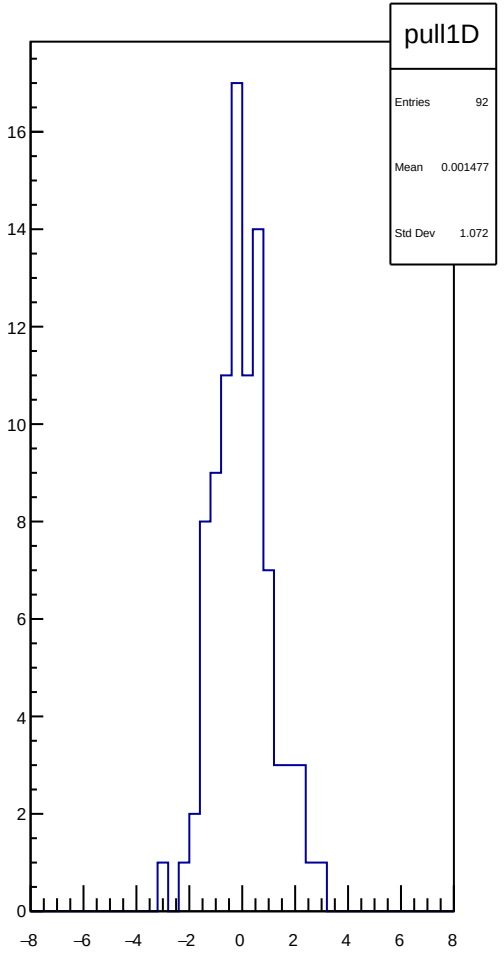

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3055 / 91
p0 4581 ± 3.451
5200
5000
4800
4600
4400
4200

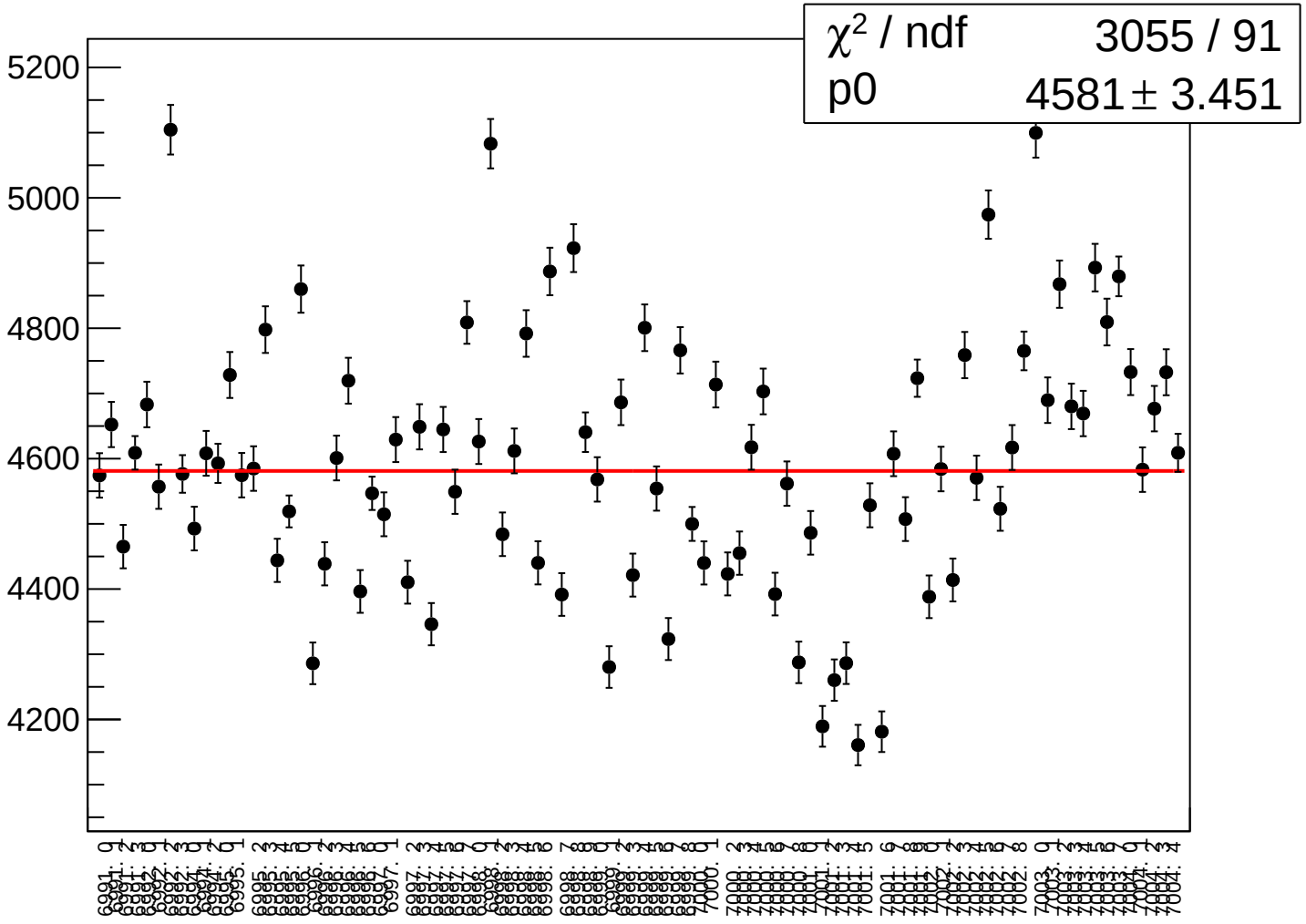

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.59 / 91
p0 −2485 ± 1651
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 7426
Std Dev 0
2
1
0
−1
−2

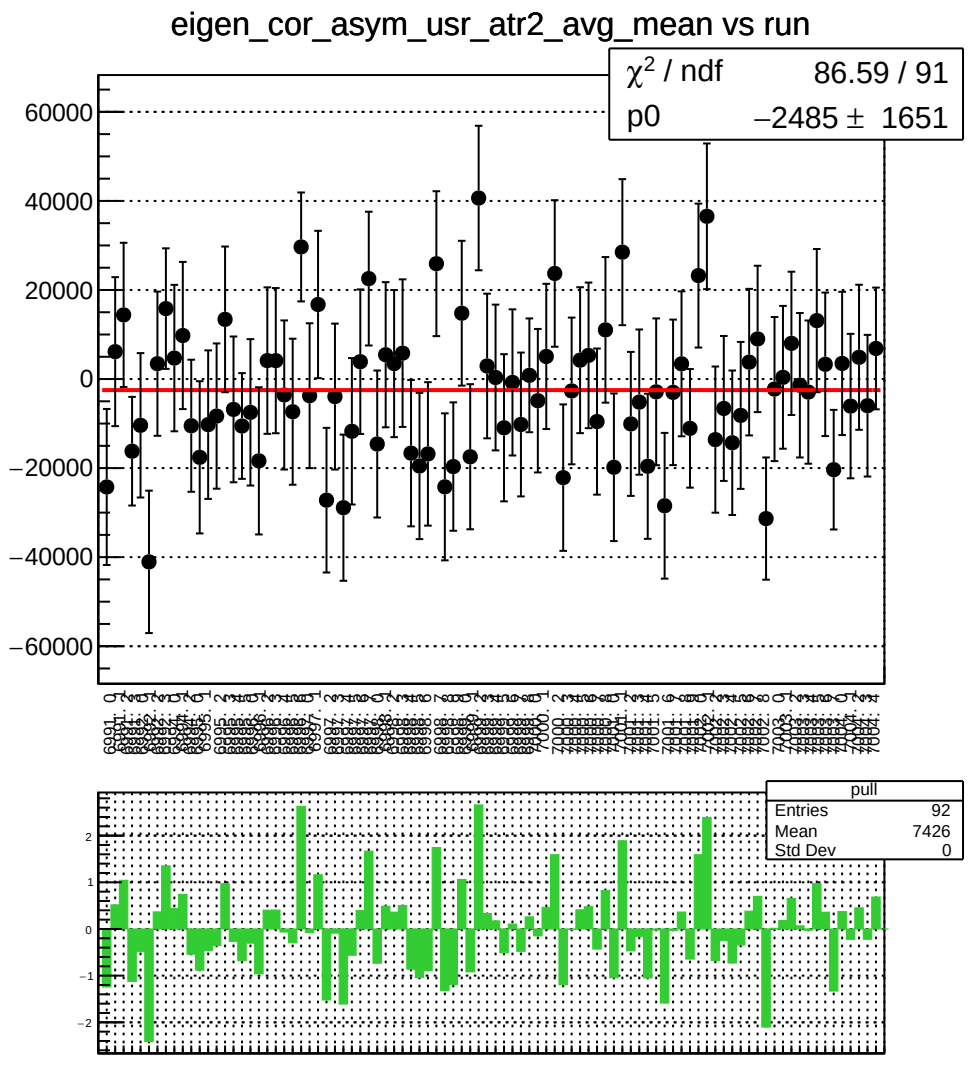

pull1D
Entries 92
Mean 0.0002343
Std Dev 0.9701
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

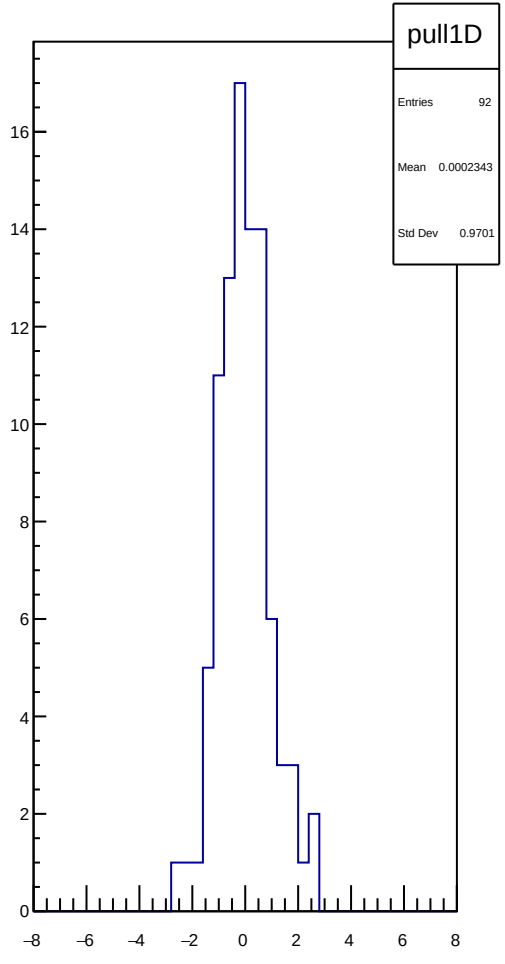

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 317 / 91
p0 1551 ± 1.168
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500

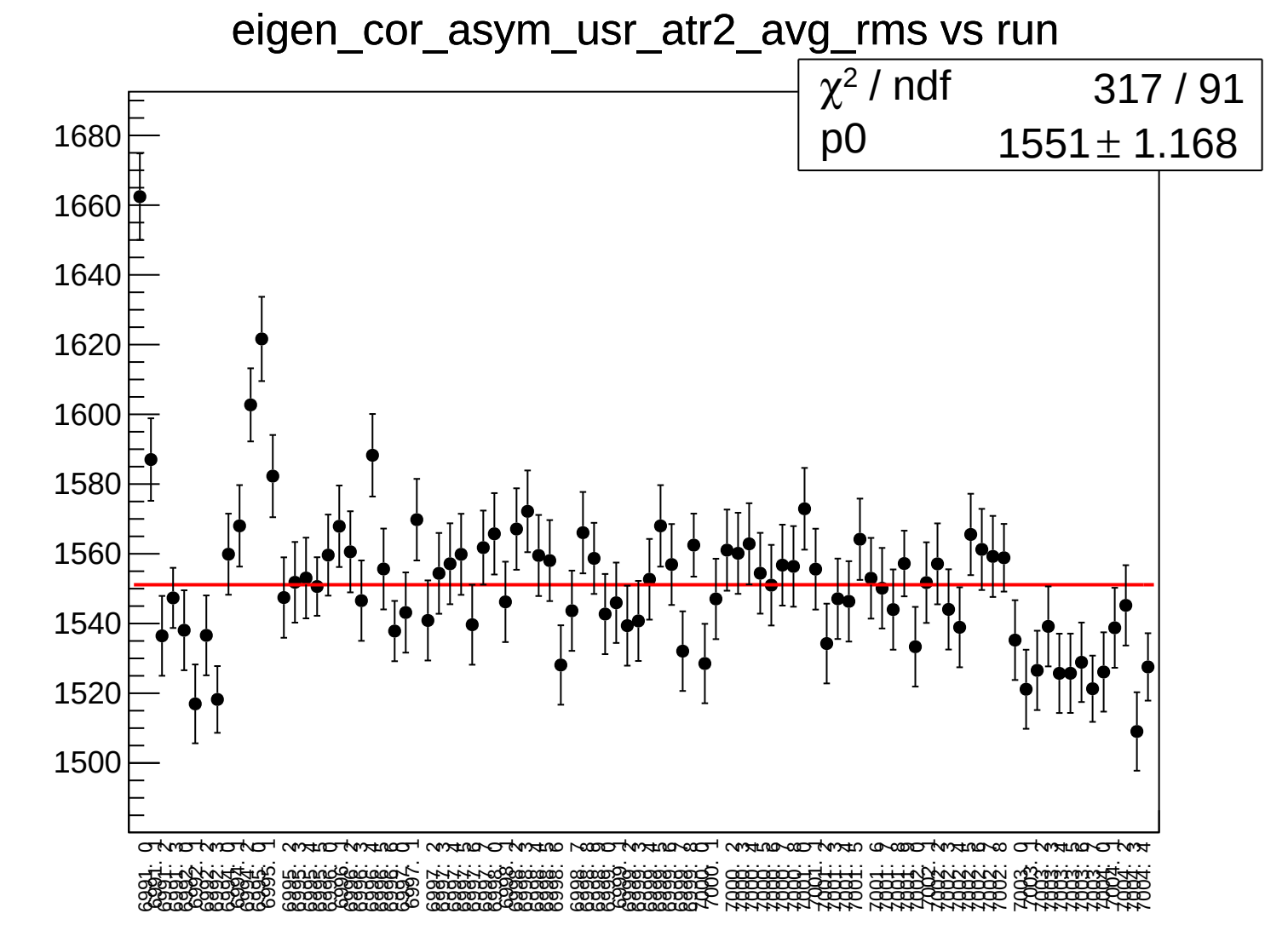

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.8 / 91
p0 −2739 ± 4880
pull
Entries 92
Mean −3673
Std Dev 0

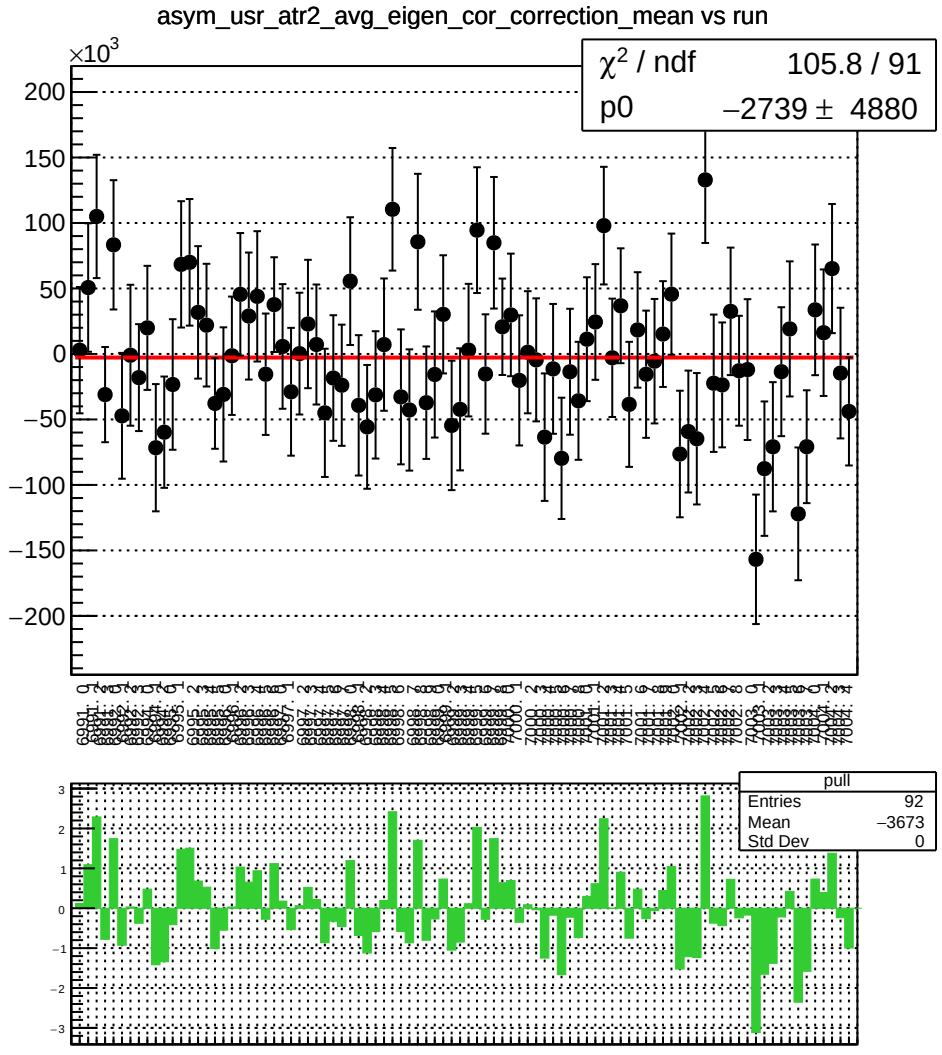

pull1D
Entries 92
Mean 0.001477
Std Dev 1.072

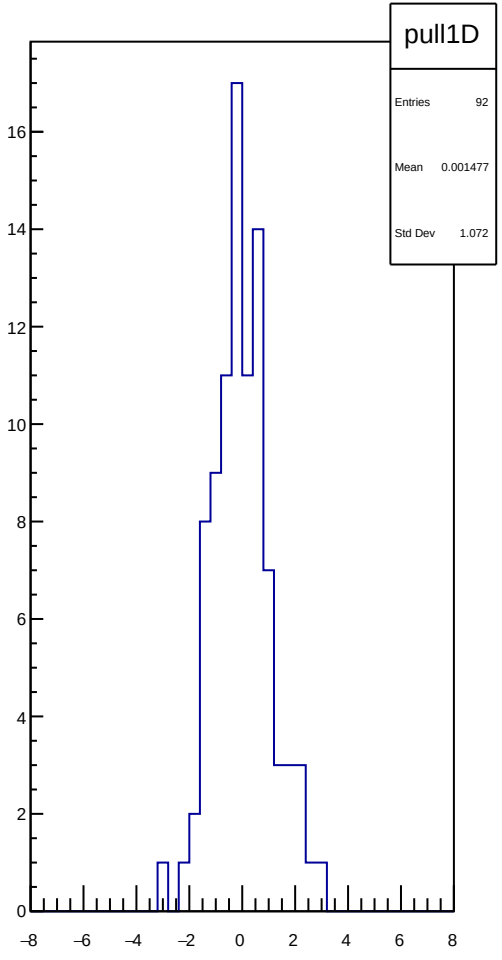

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 3055 / 91
p0 4581 ± 3.451
5200
5000
4800
4600
4400
4200

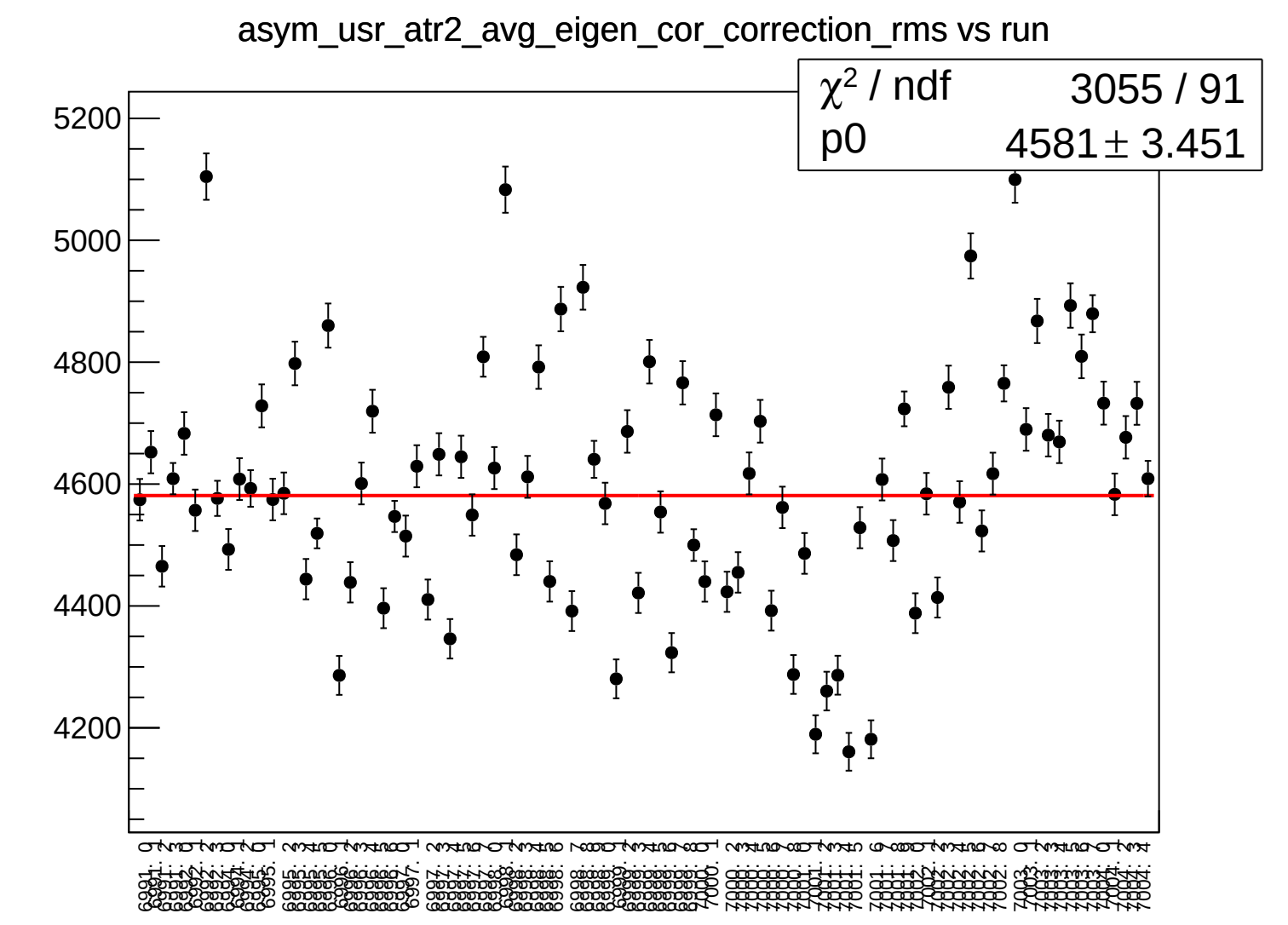

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.59 / 91
p0 −2485 ± 1651
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 7426
Std Dev 0
2
1
0
−1
−2

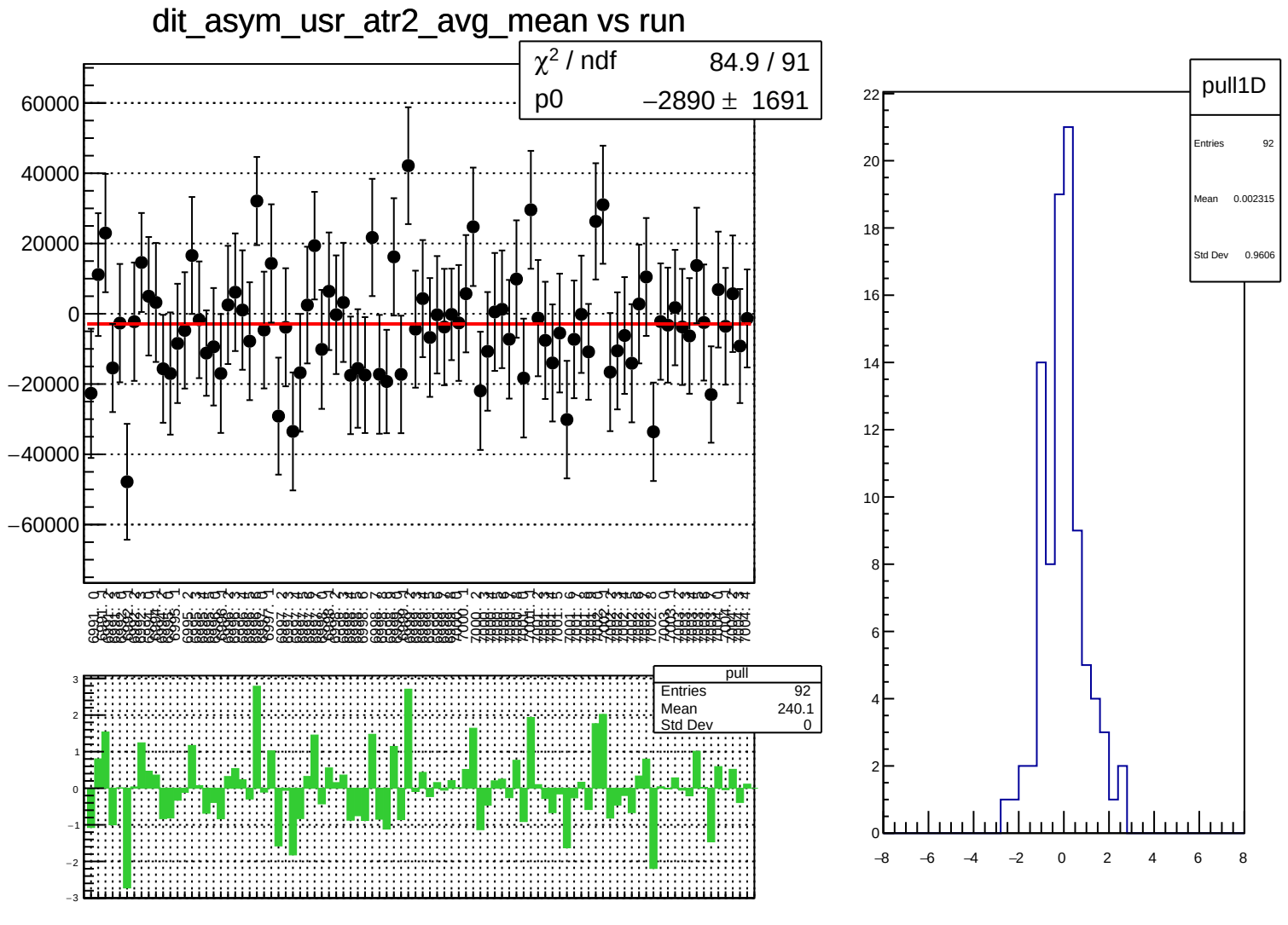

pull1D
Entries 92
Mean 0.0002343
Std Dev 0.9701
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

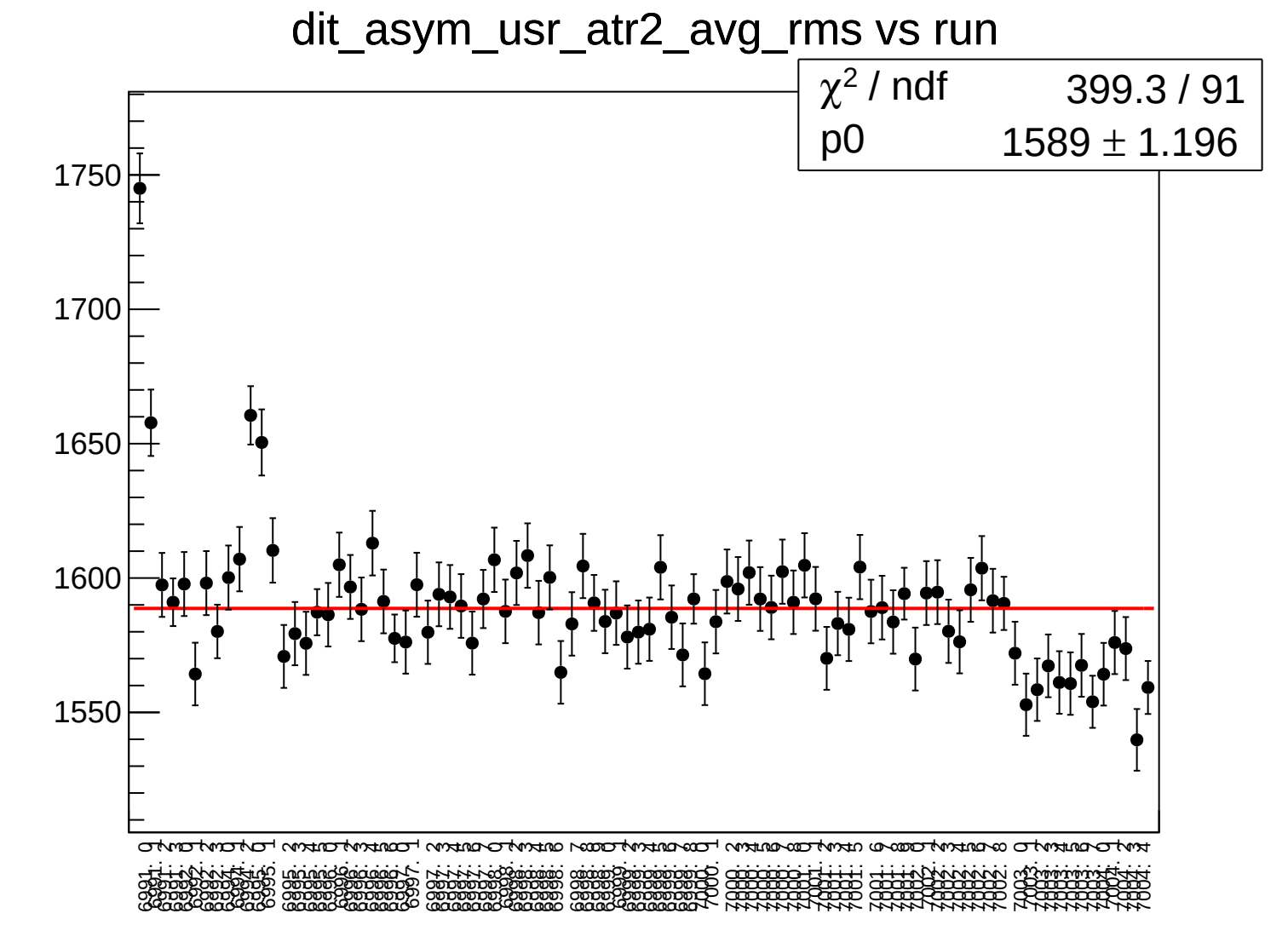

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 317 / 91
p0 1551 ± 1.168
1680
1660
1640
1620
1600
1580
1560
1540
1520
1500

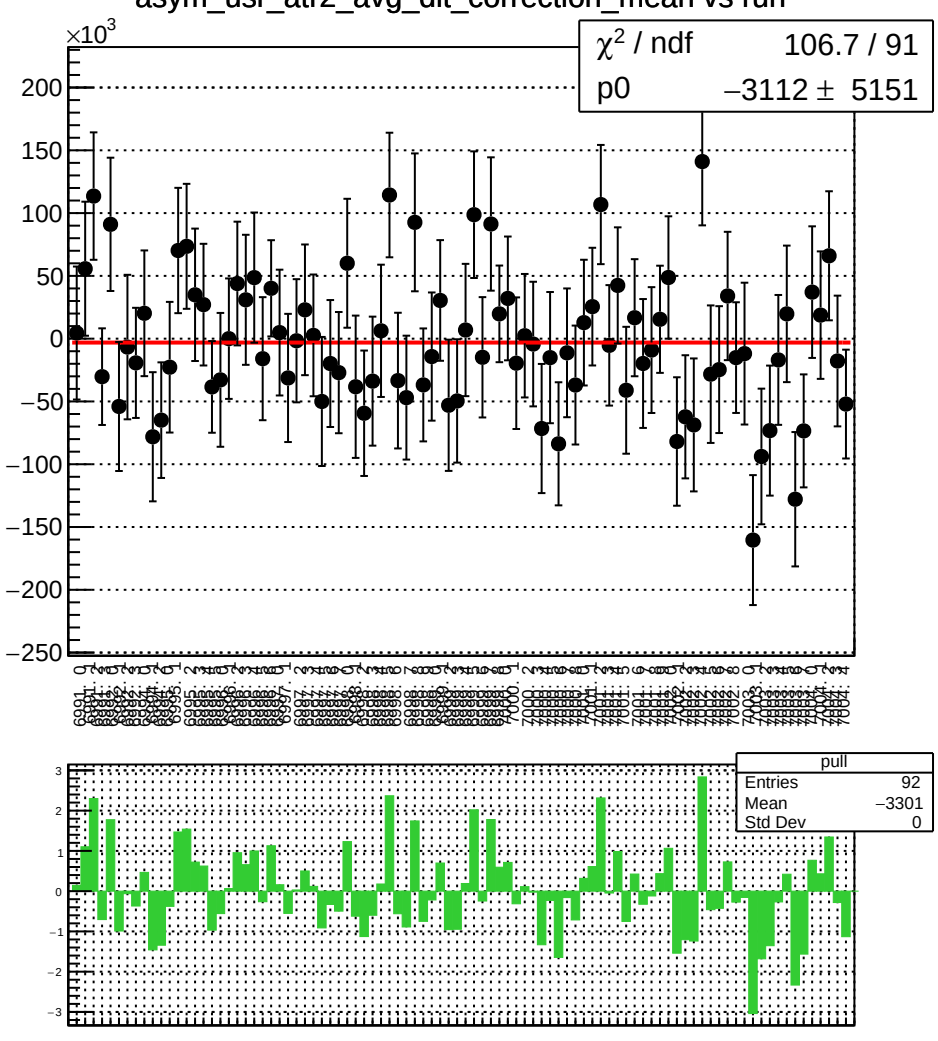

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.8 / 91
p0 −2739 ± 4880
pull
Entries 92
Mean −3673
Std Dev 0

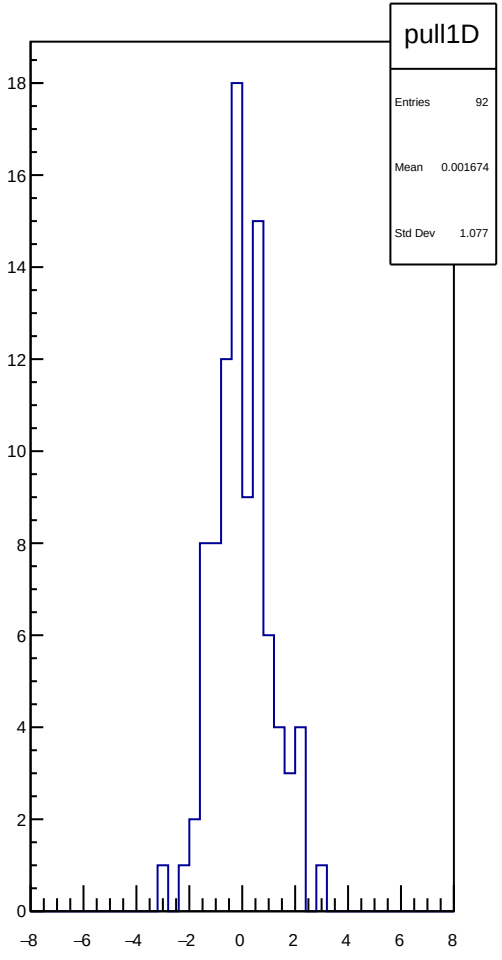

pull1D
Entries 92
Mean 0.001477
Std Dev 1.072

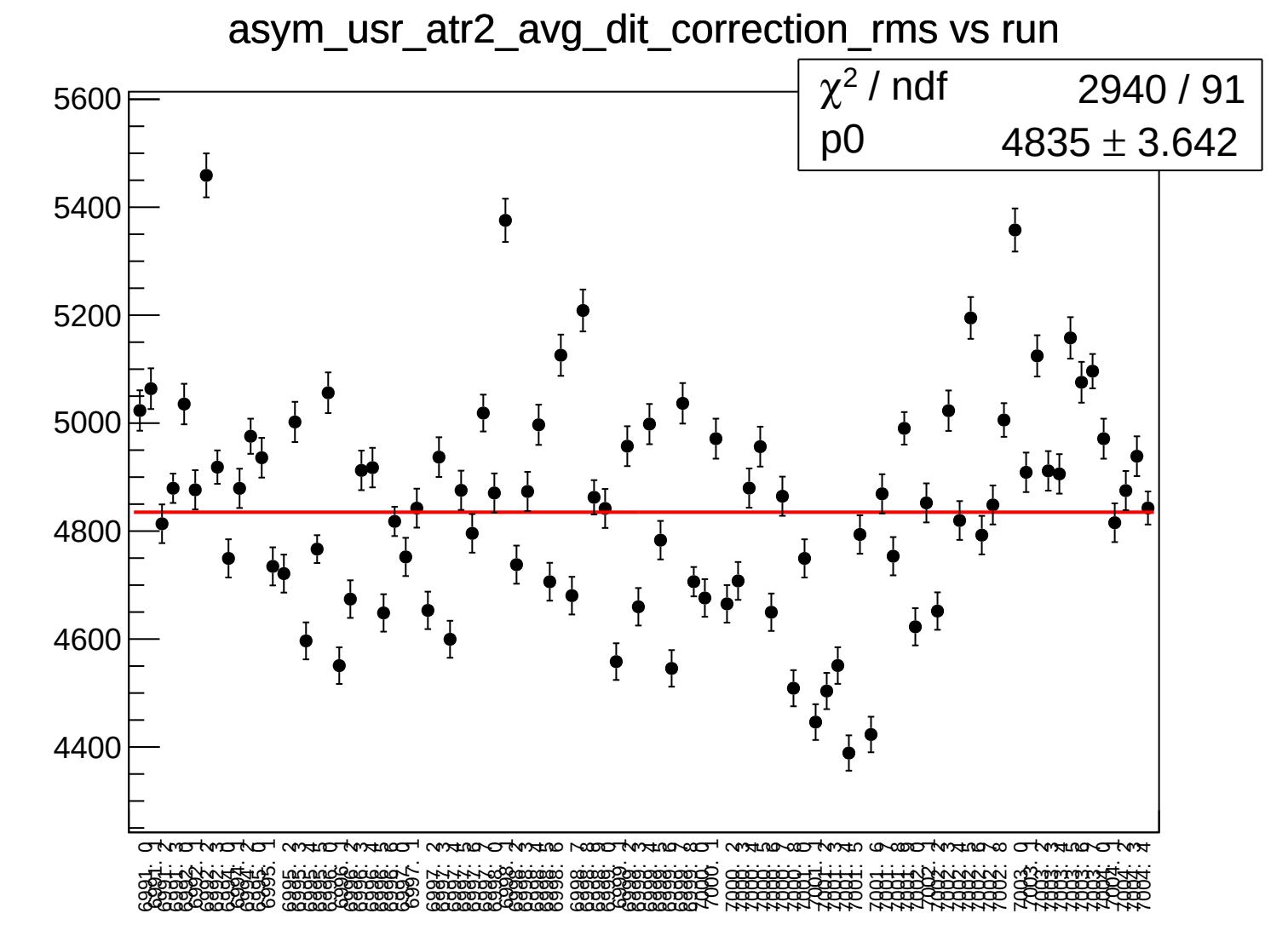

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3055 / 91
p0 4581 ± 3.451
5200
5000
4800
4600
4400
4200

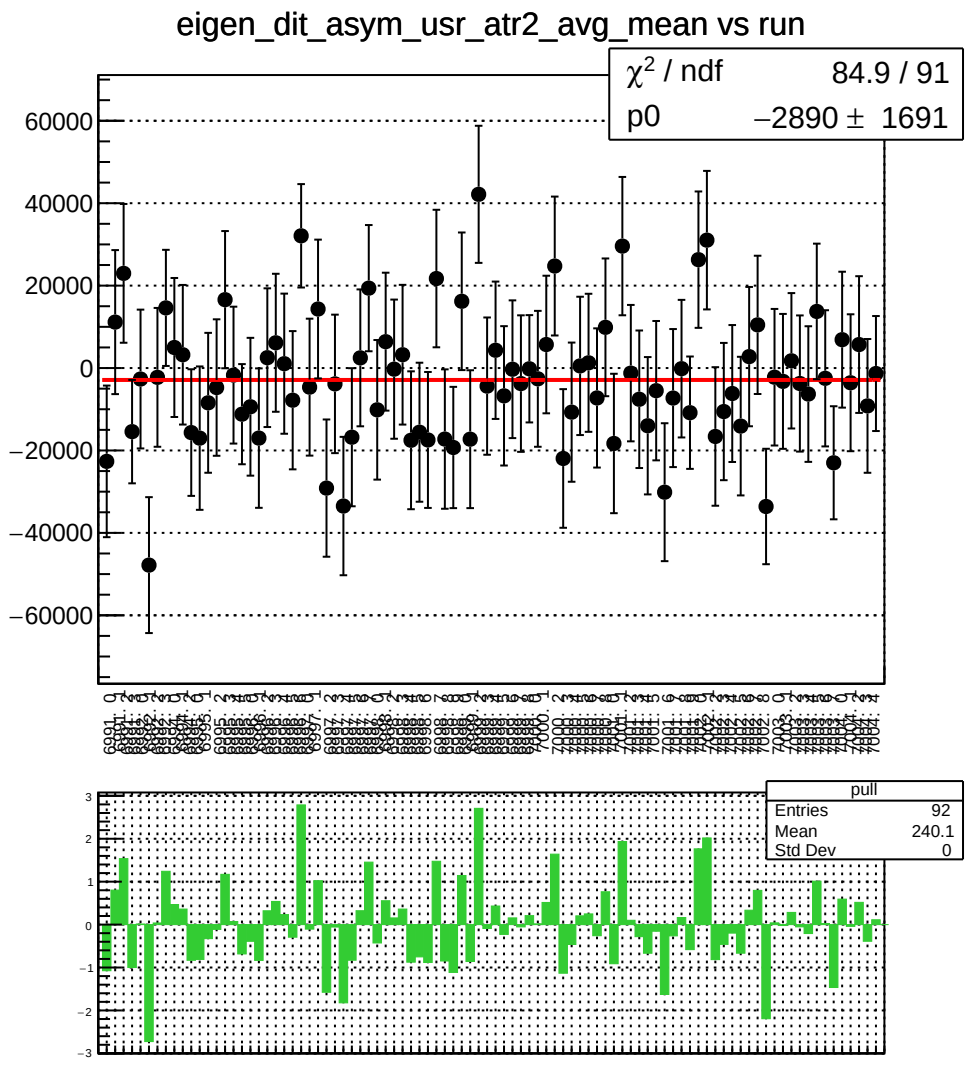

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.9 / 91
p0 −2890 ± 1691
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 240.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.002315
Std Dev 0.9606
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

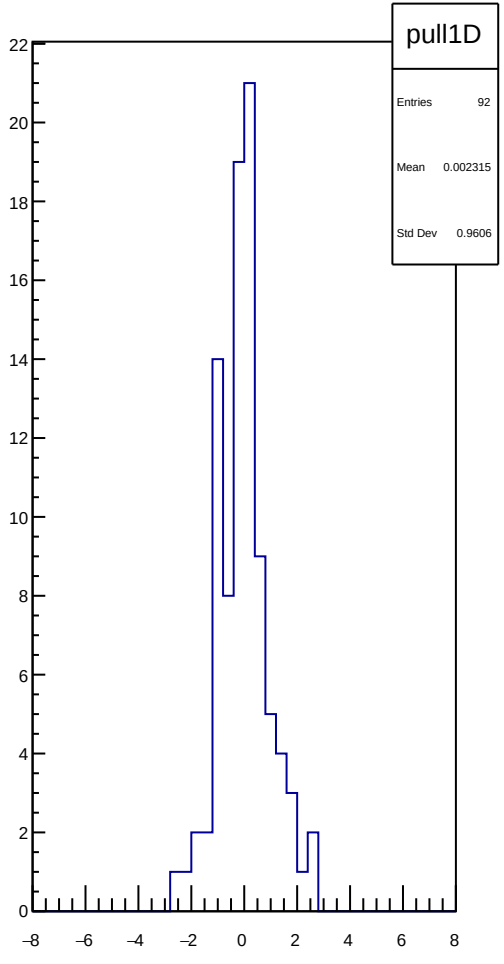

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 399.3 / 91
p0 1589 ± 1.196
1750
1700
1650
1600
1550

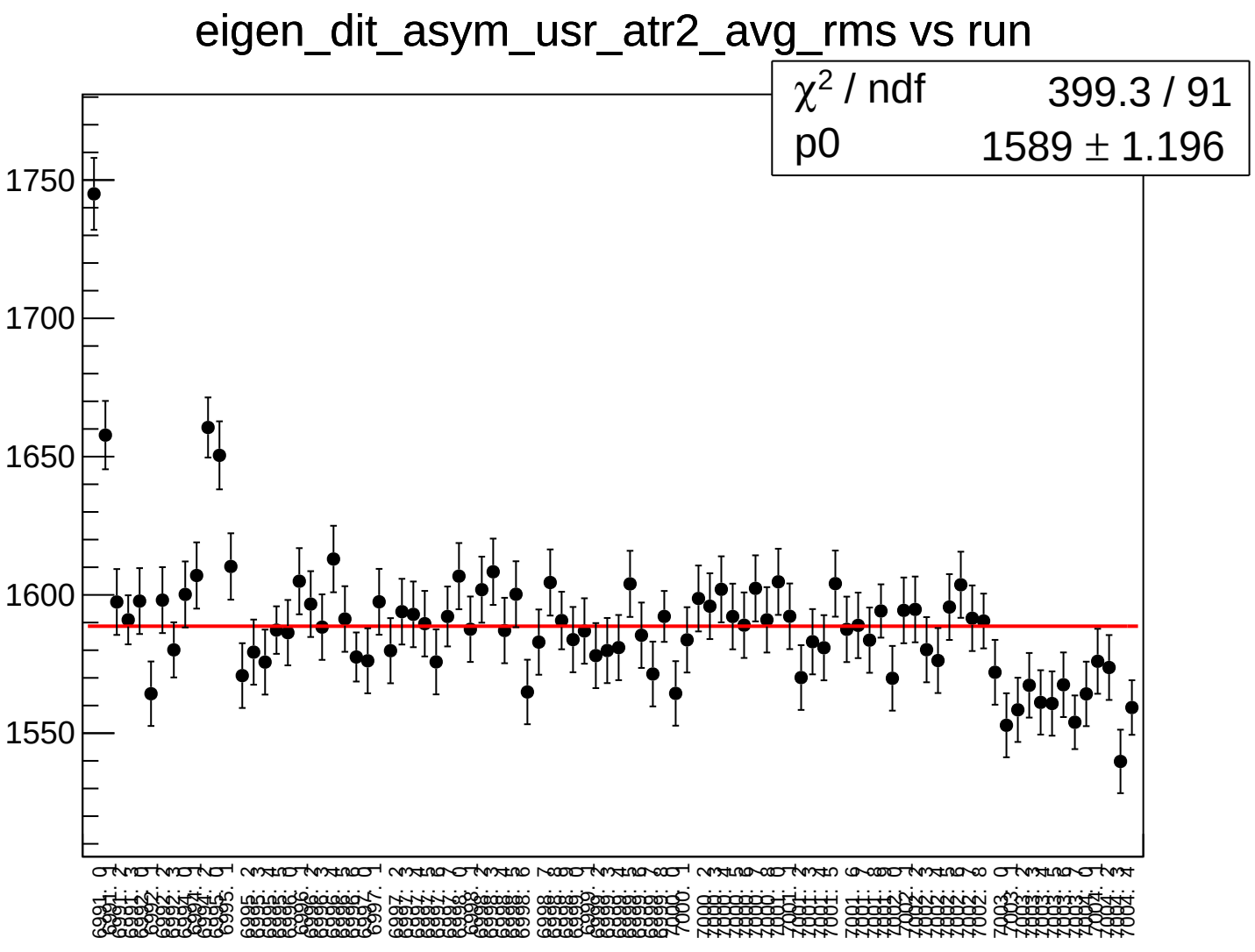

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 106.7 / 91
p0 −3112 ± 5151
pull
Entries 92
Mean −3301
Std Dev 0

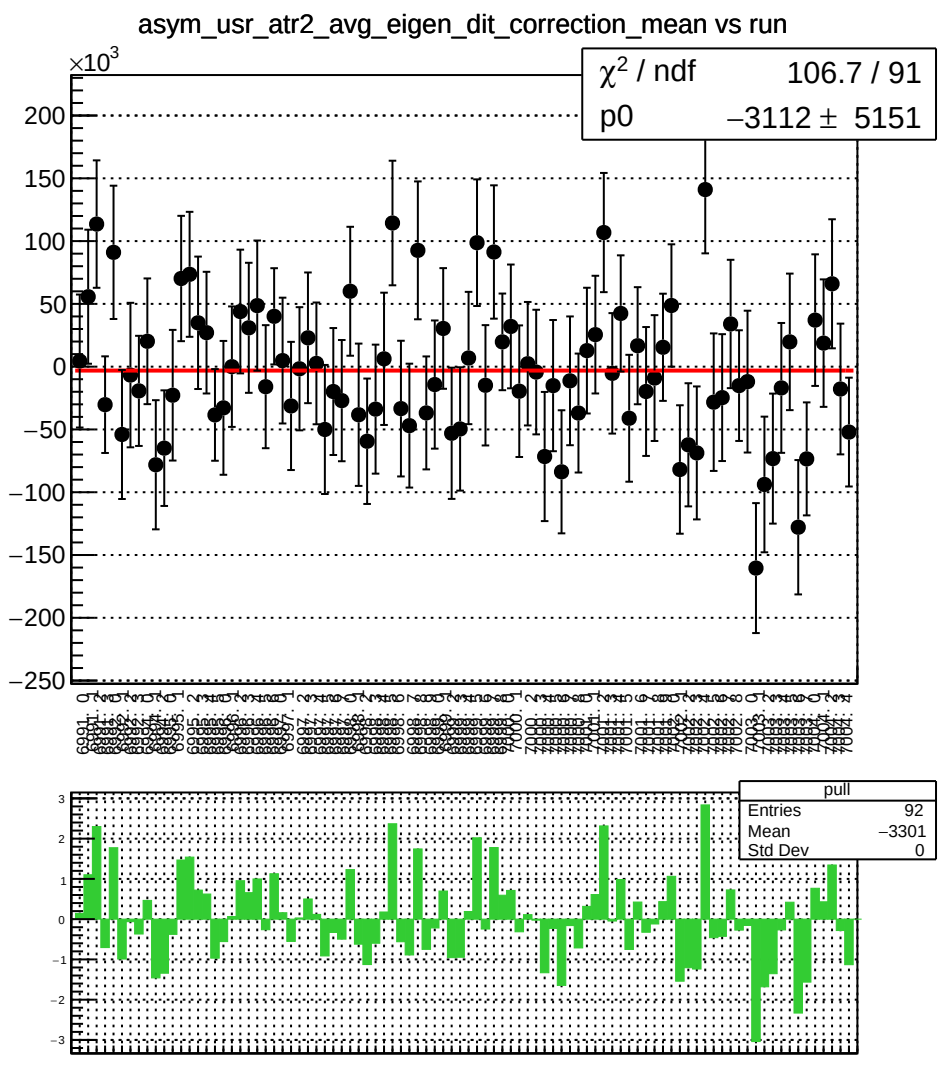

pull1D
Entries 92
Mean 0.001674
Std Dev 1.077

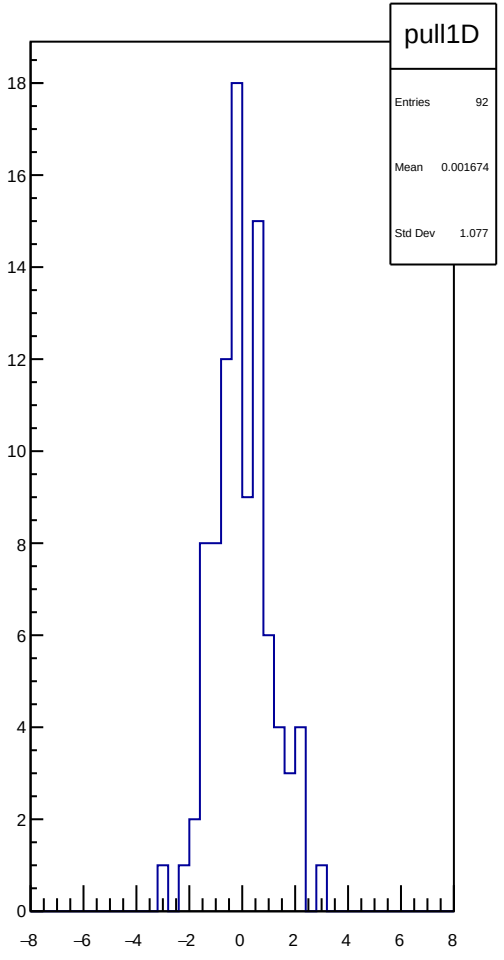

asym_usr_atr2_avg_dit_correction_rms vs run
χ^2 / ndf 2940 / 91
p0 4835 ± 3.642
5600
5400
5200
5000
4800
4600
4400

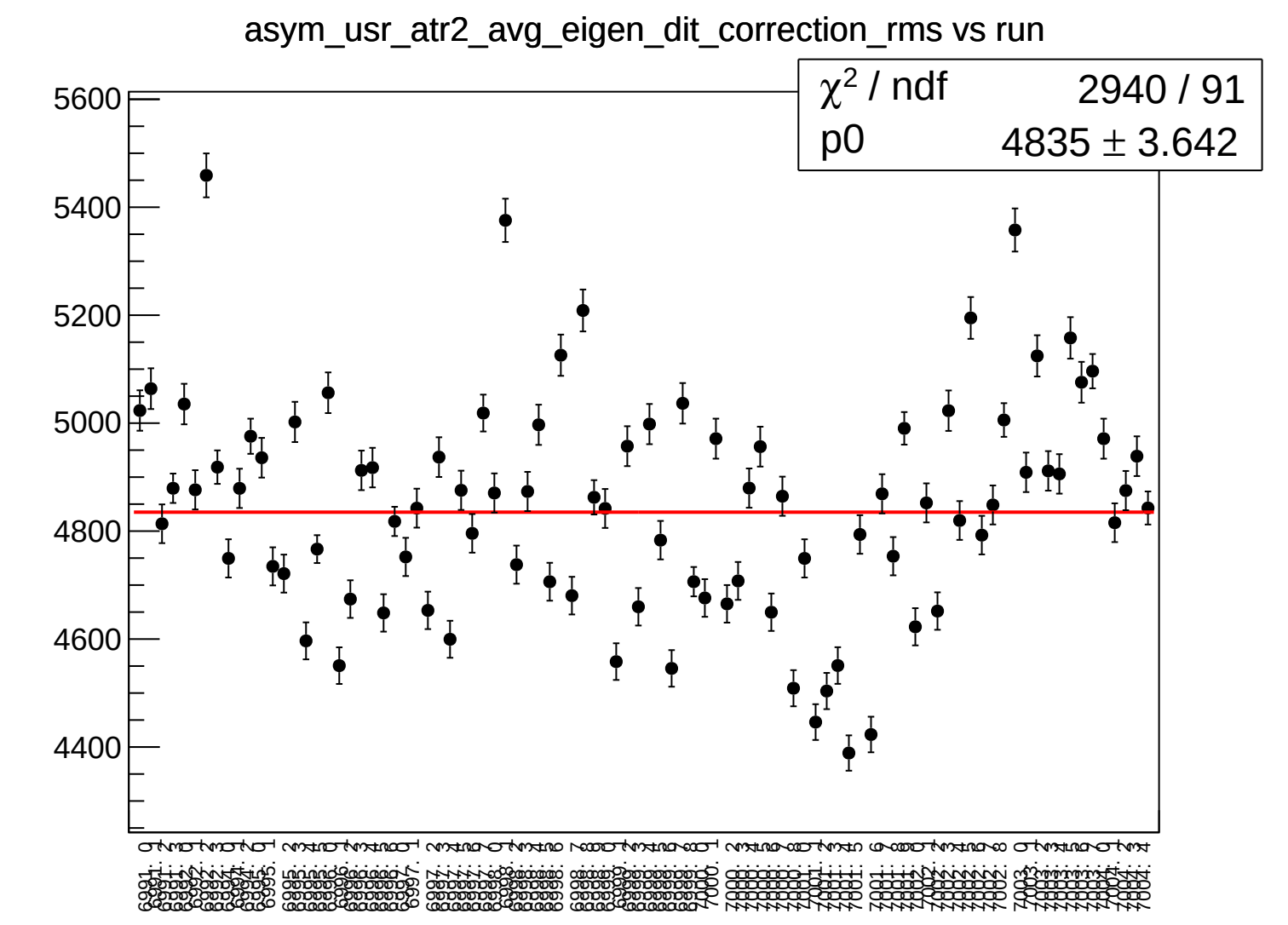

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 84.9 / 91
p0 −2890 ± 1691
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 240.1
Std Dev 0
3
2
1
0
−1
−2
−3

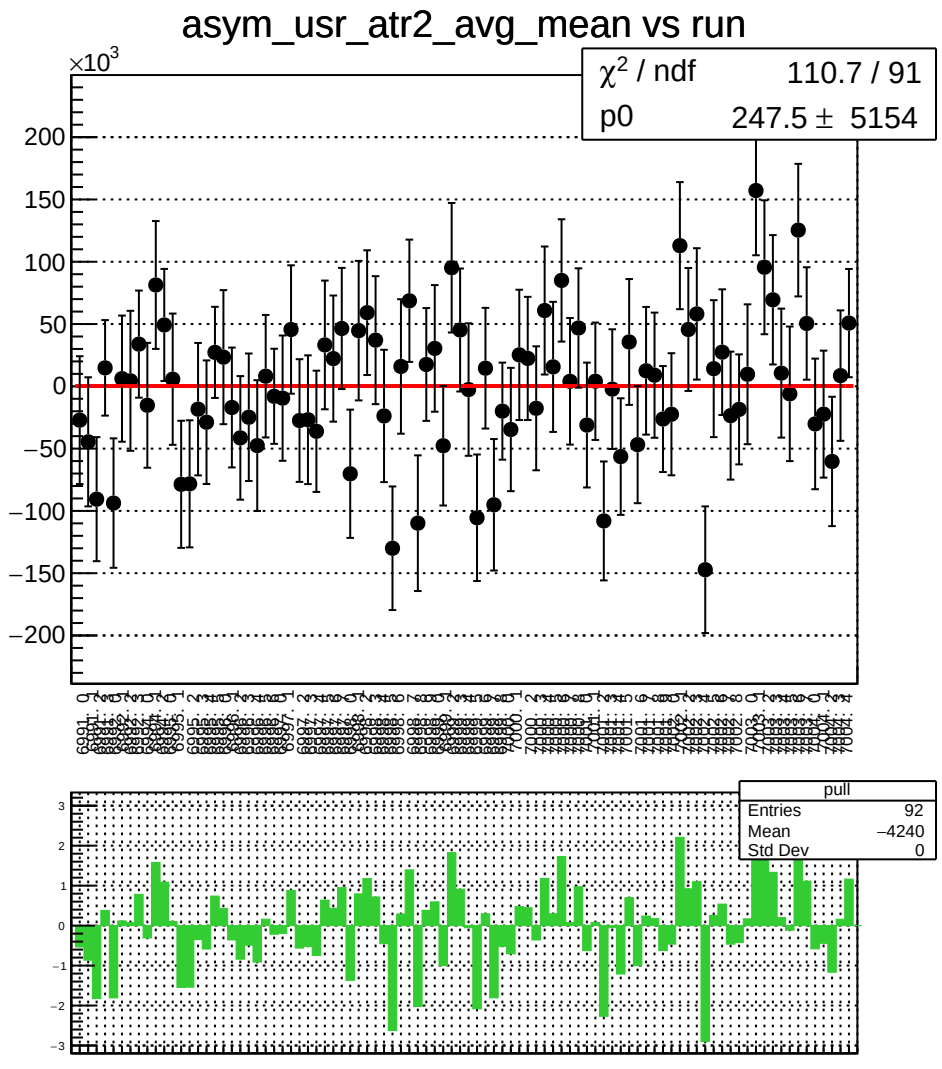

pull1D
Entries 92
Mean 0.002315
Std Dev 0.9606
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

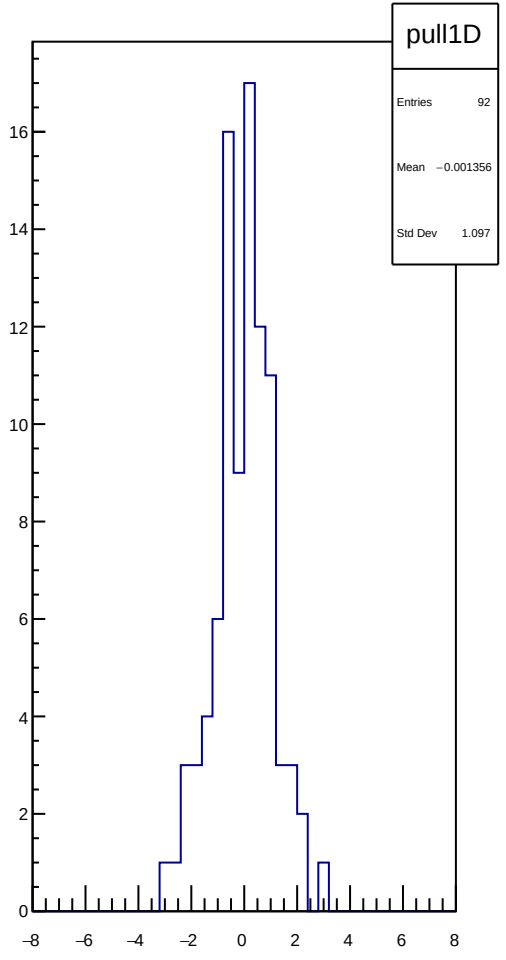

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 399.3 / 91
p0 1589 ± 1.196
1750
1700
1650
1600
1550

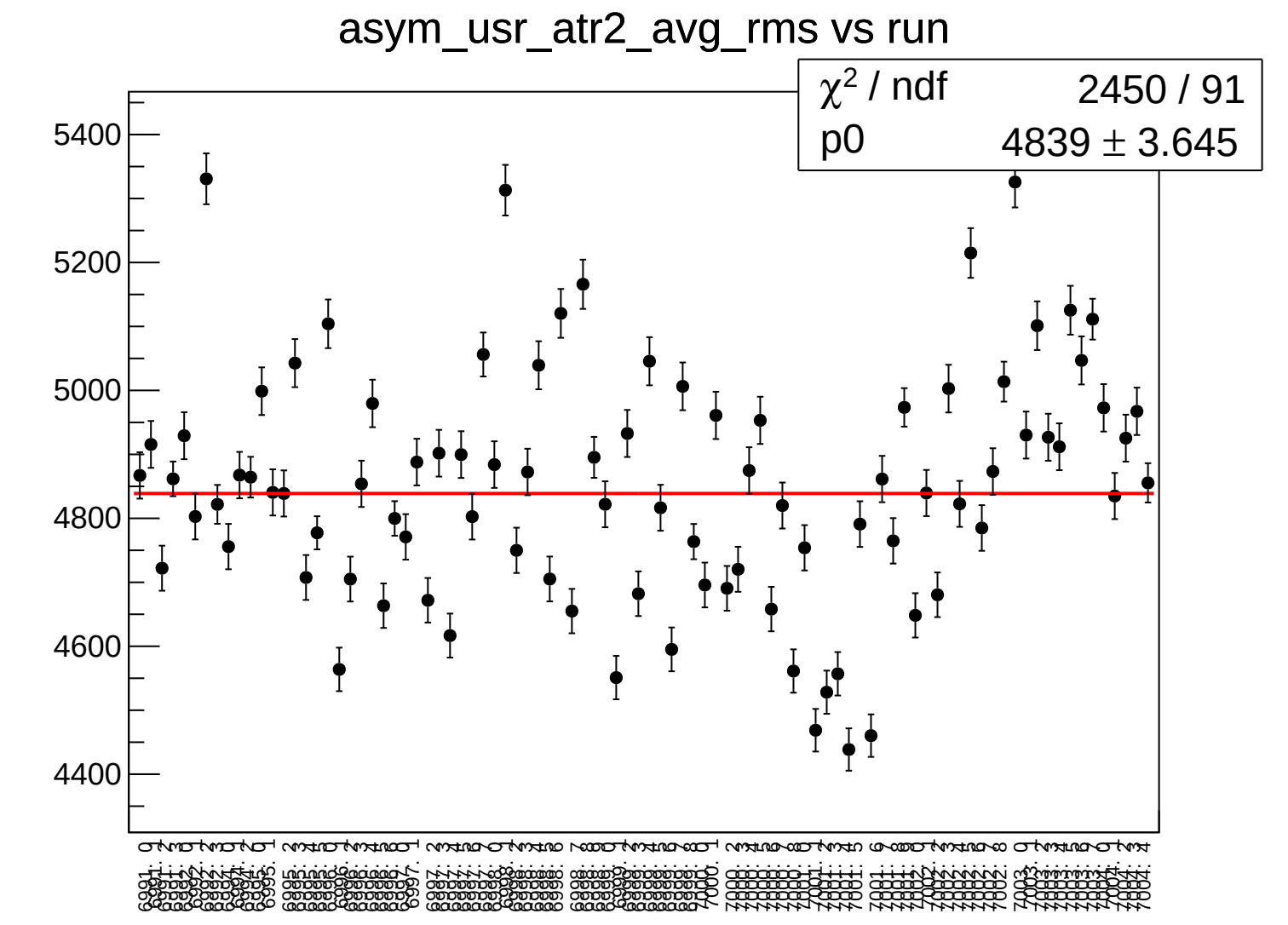

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 106.7 / 91
p0 −3112 ± 5151
pull
Entries 92
Mean −3301
Std Dev 0

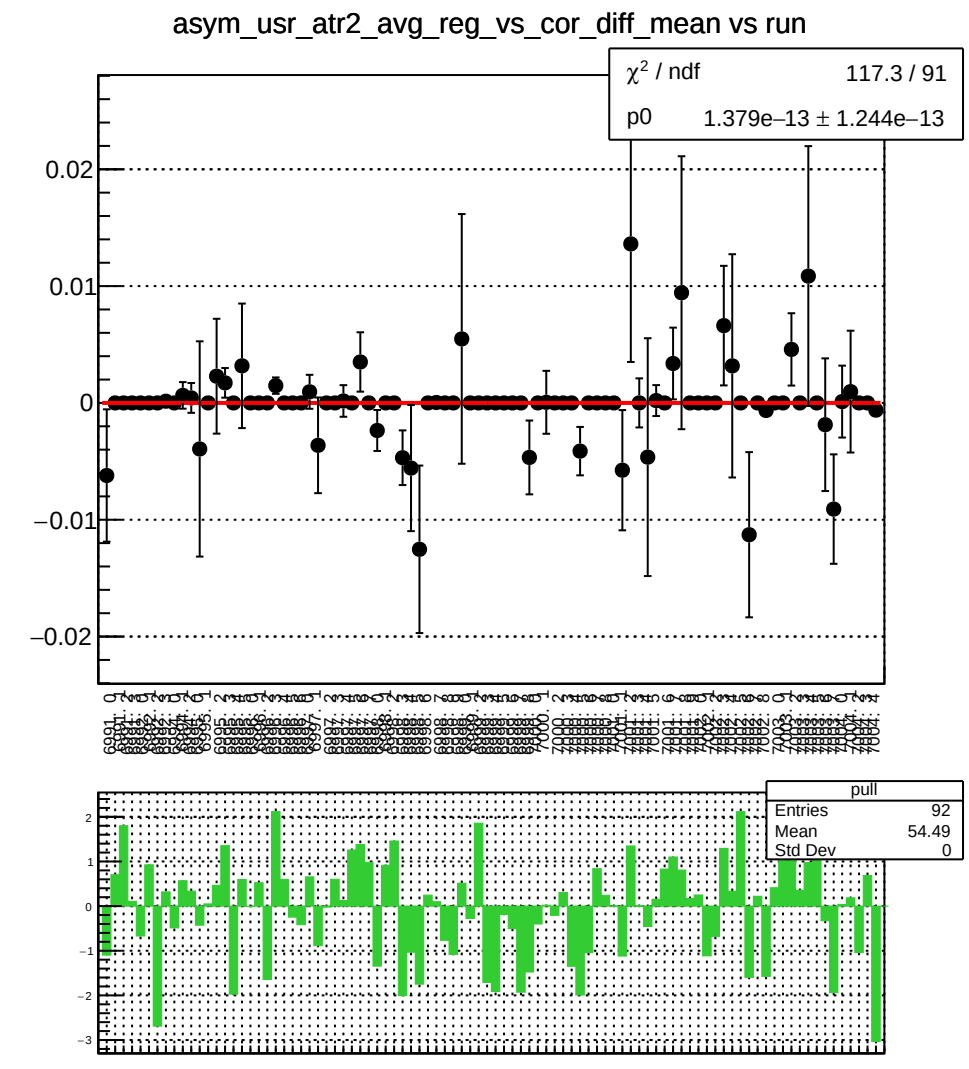

pull1D
Entries 92
Mean 0.001674
Std Dev 1.077

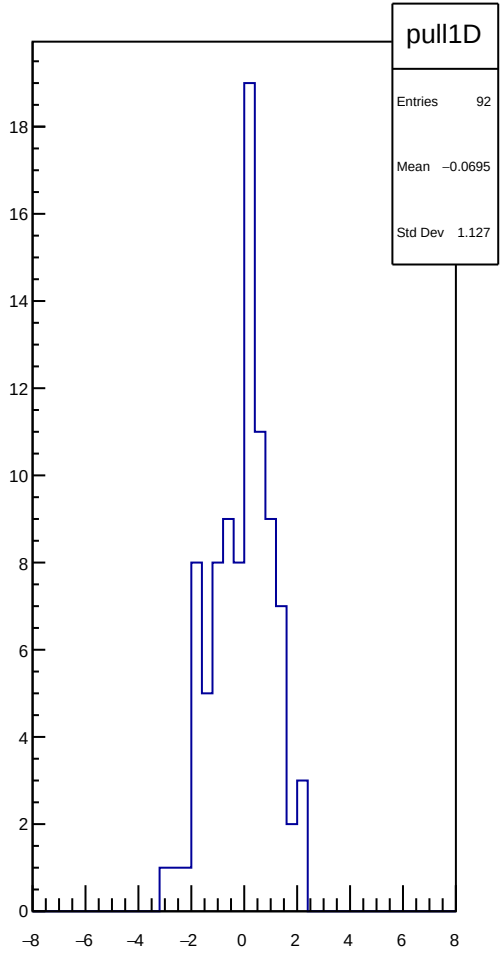

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 2940 / 91
p0 4835 ± 3.642
5600
5400
5200
5000
4800
4600
4400

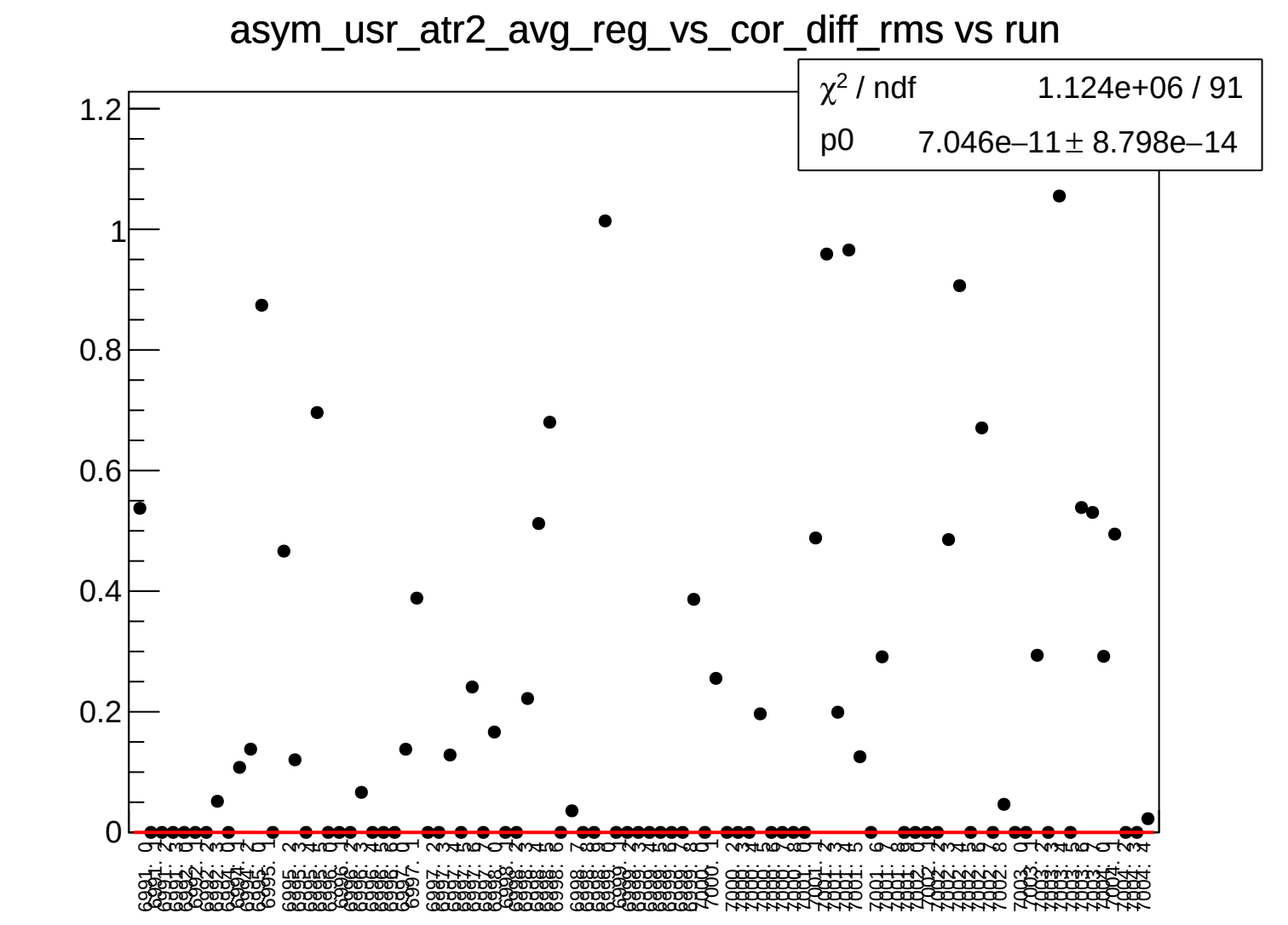

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 110.7 / 91
p0 247.5 ± 5154
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −4240
Std Dev 0
3
2
1
0
−1
−2
−3

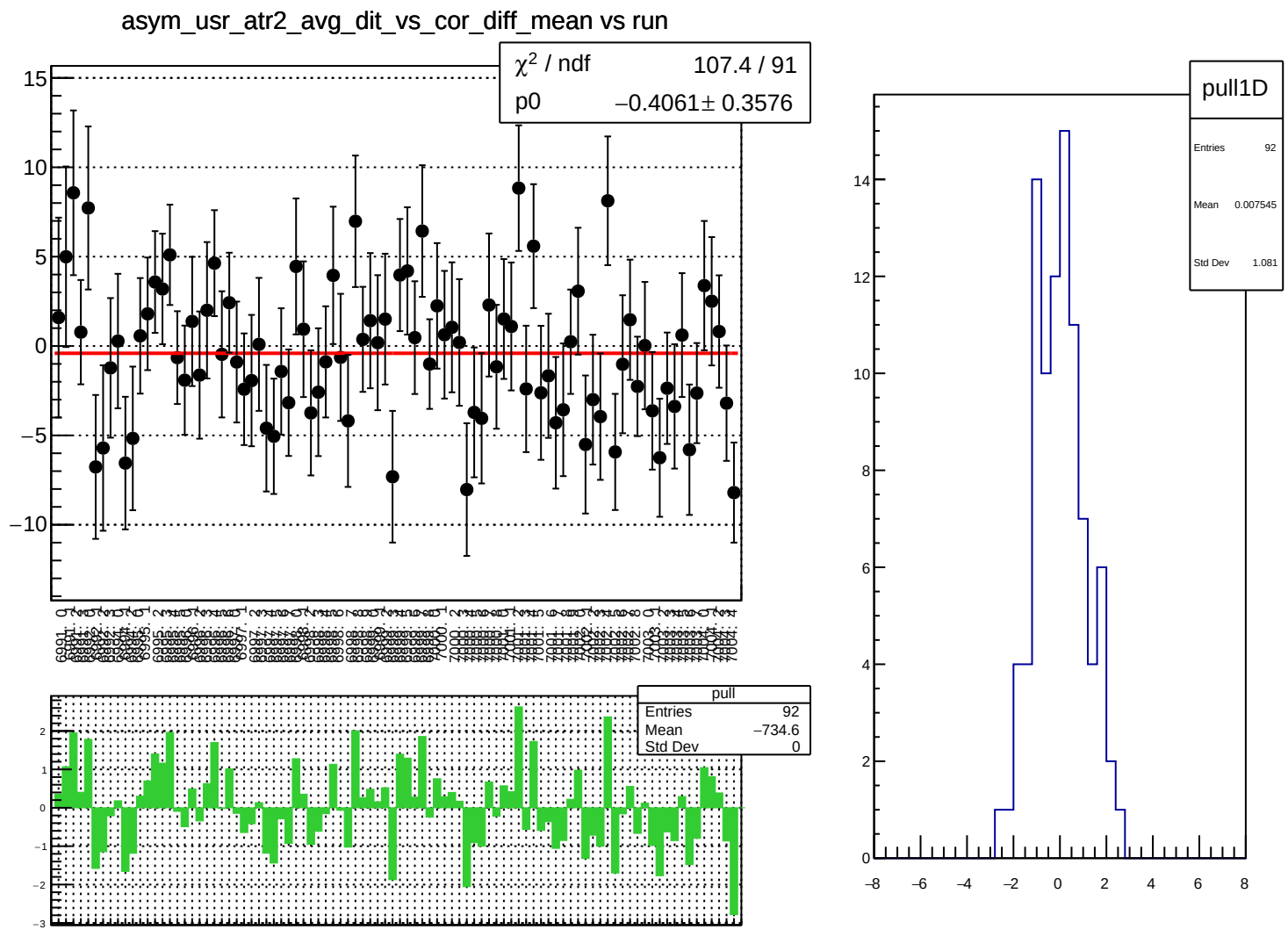

pull1D
Entries 92
Mean −0.001356
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

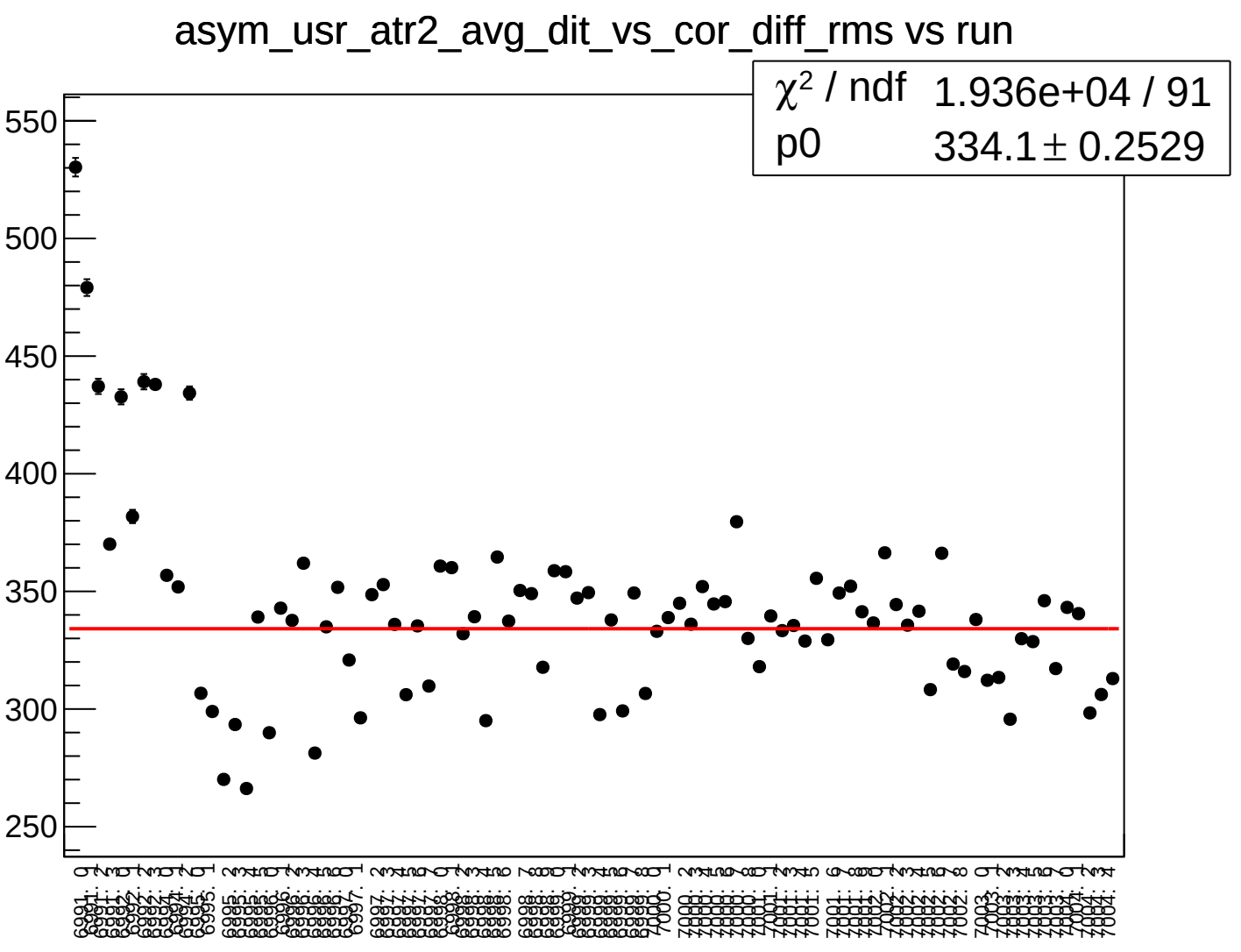

asym_usr_atr2_avg_rms vs run
χ² / ndf 2450 / 91
p0 4839 ± 3.645
5400
5200
5000
4800
4600
4400

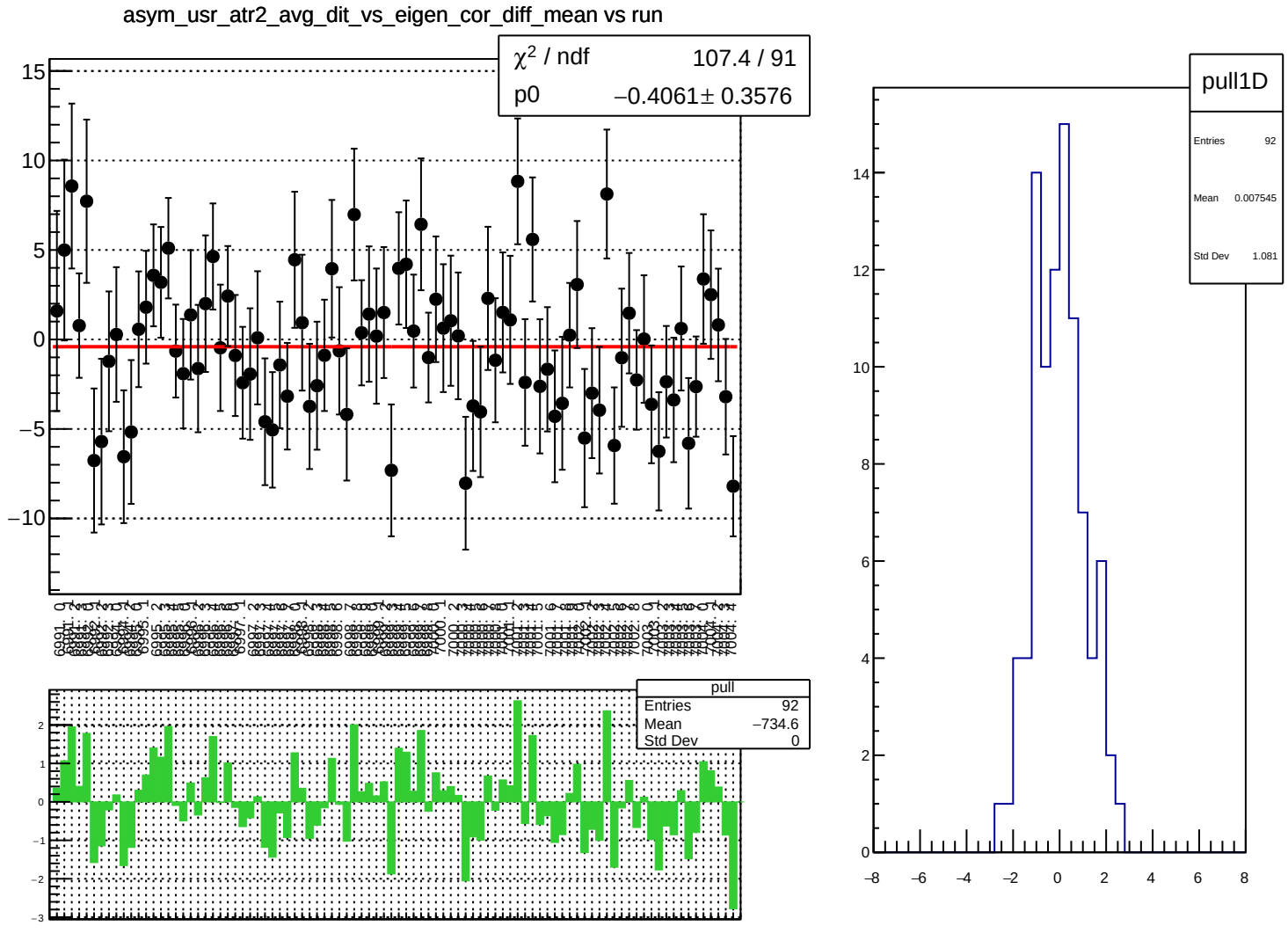

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 117.3 / 91
p0 1.379e−13 ± 1.244e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 54.49
Std Dev 0
2
1
0
−1
−2
−3

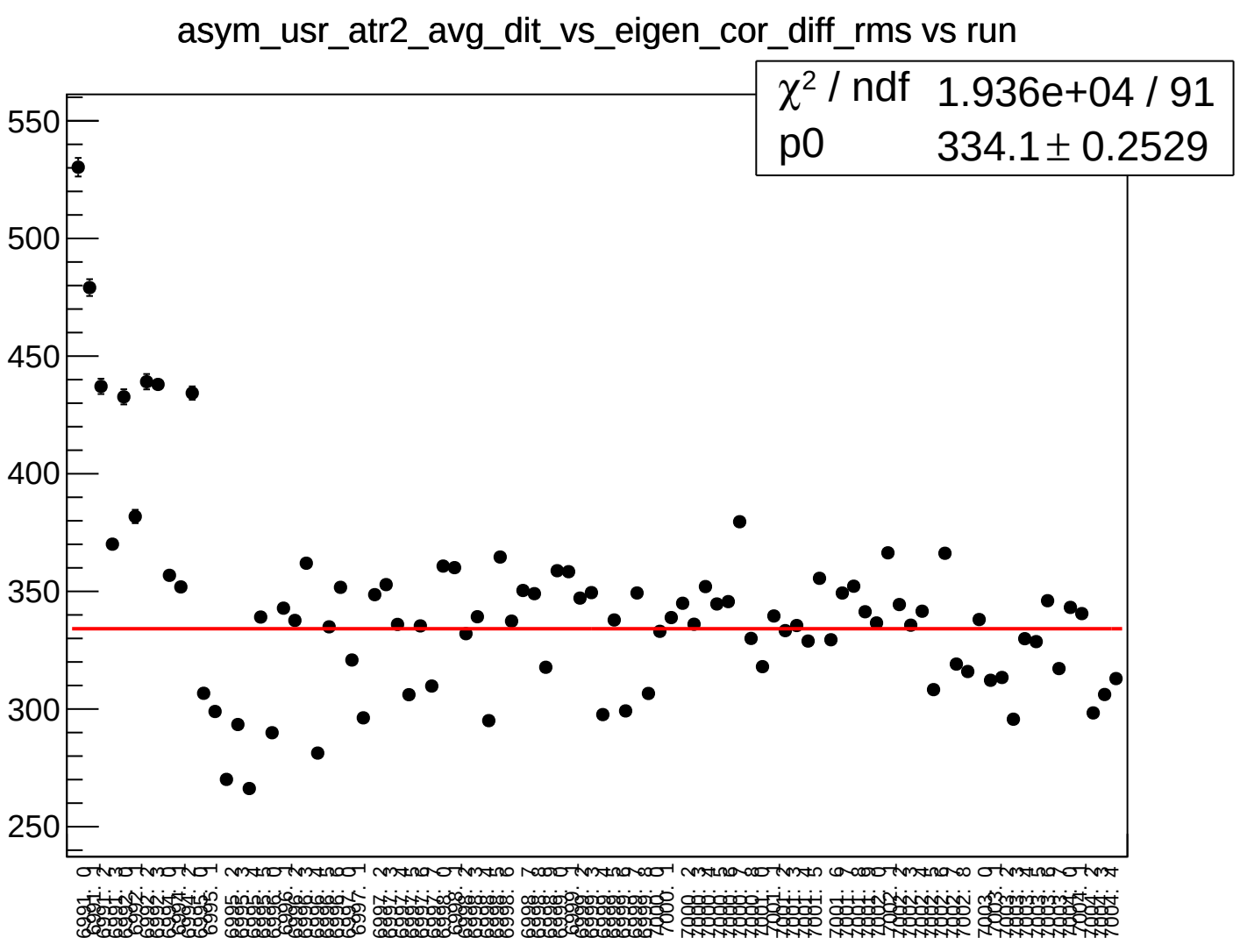

pull1D
Entries 92
Mean −0.0695
Std Dev 1.127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

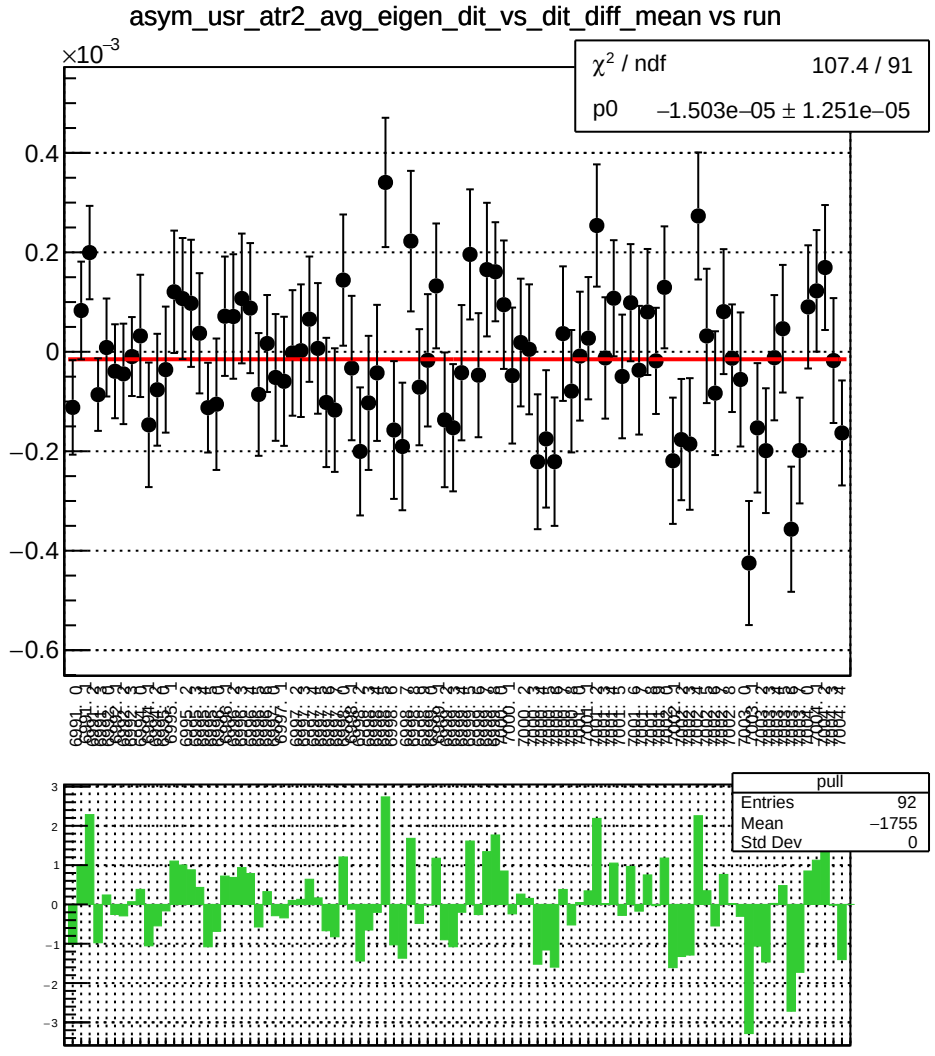

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.124e+06 / 91
p0 7.046e−11 ± 8.798e−14
1.2
1
0.8
0.6
0.4
0.2
0

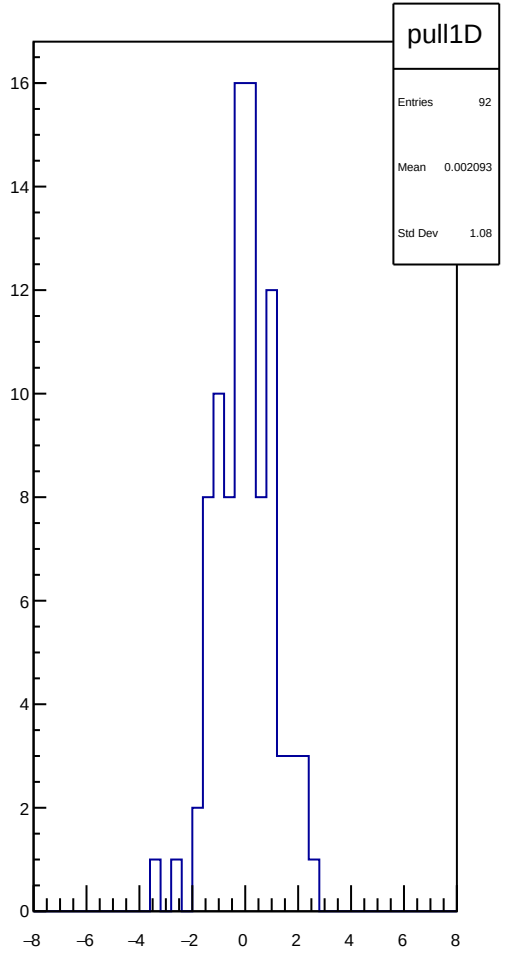

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 91
p0 −0.4061± 0.3576
pull
Entries 92
Mean −734.6
Std Dev 0
pull1D
Entries 92
Mean 0.007545
Std Dev 1.081

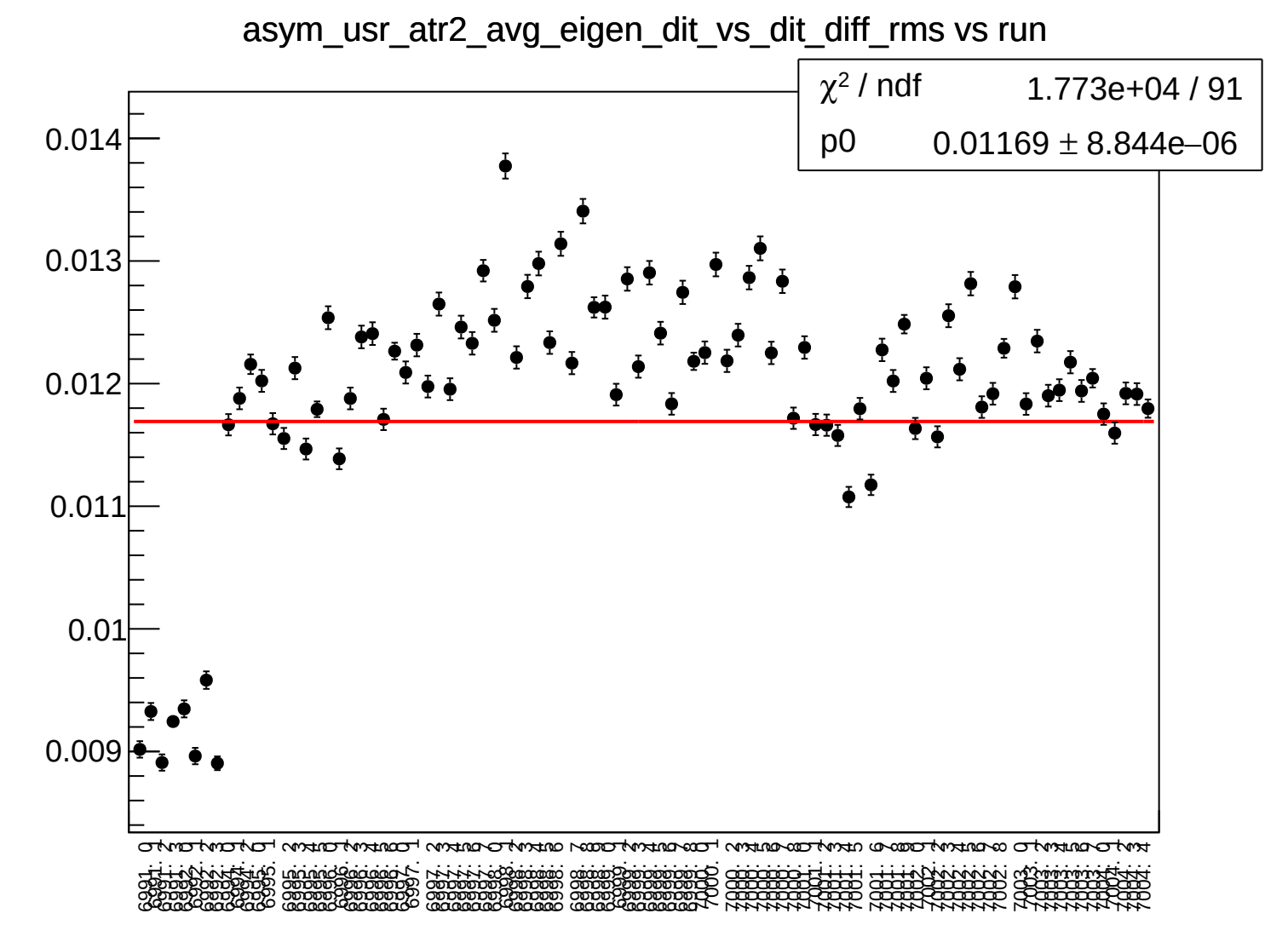

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.936e+04 / 91
p0 334.1 ± 0.2529
550
500
450
400
350
300
250

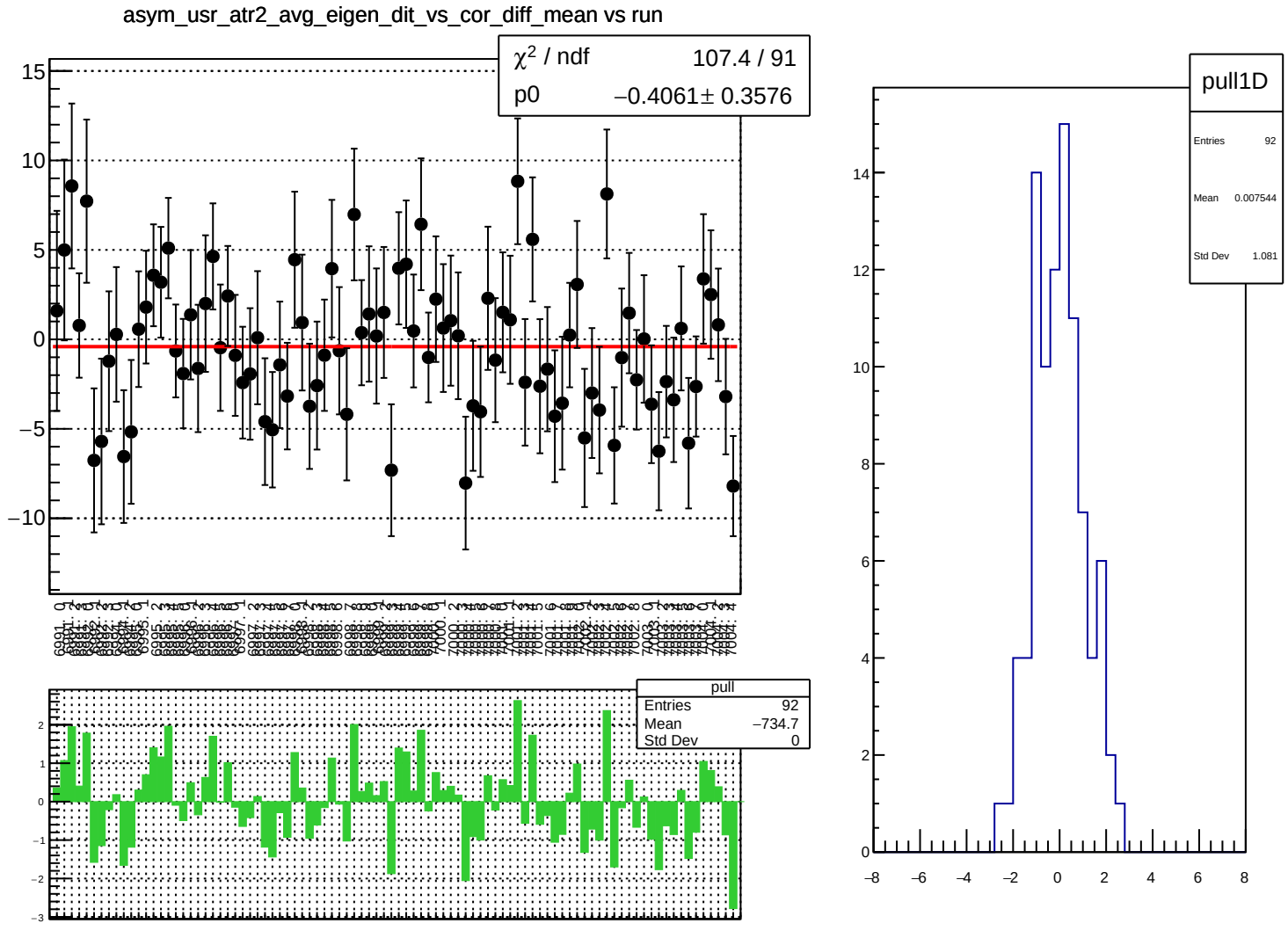

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 91
p0 −0.4061± 0.3576
pull
Entries 92
Mean −734.6
Std Dev 0
pull1D
Entries 92
Mean 0.007545
Std Dev 1.081

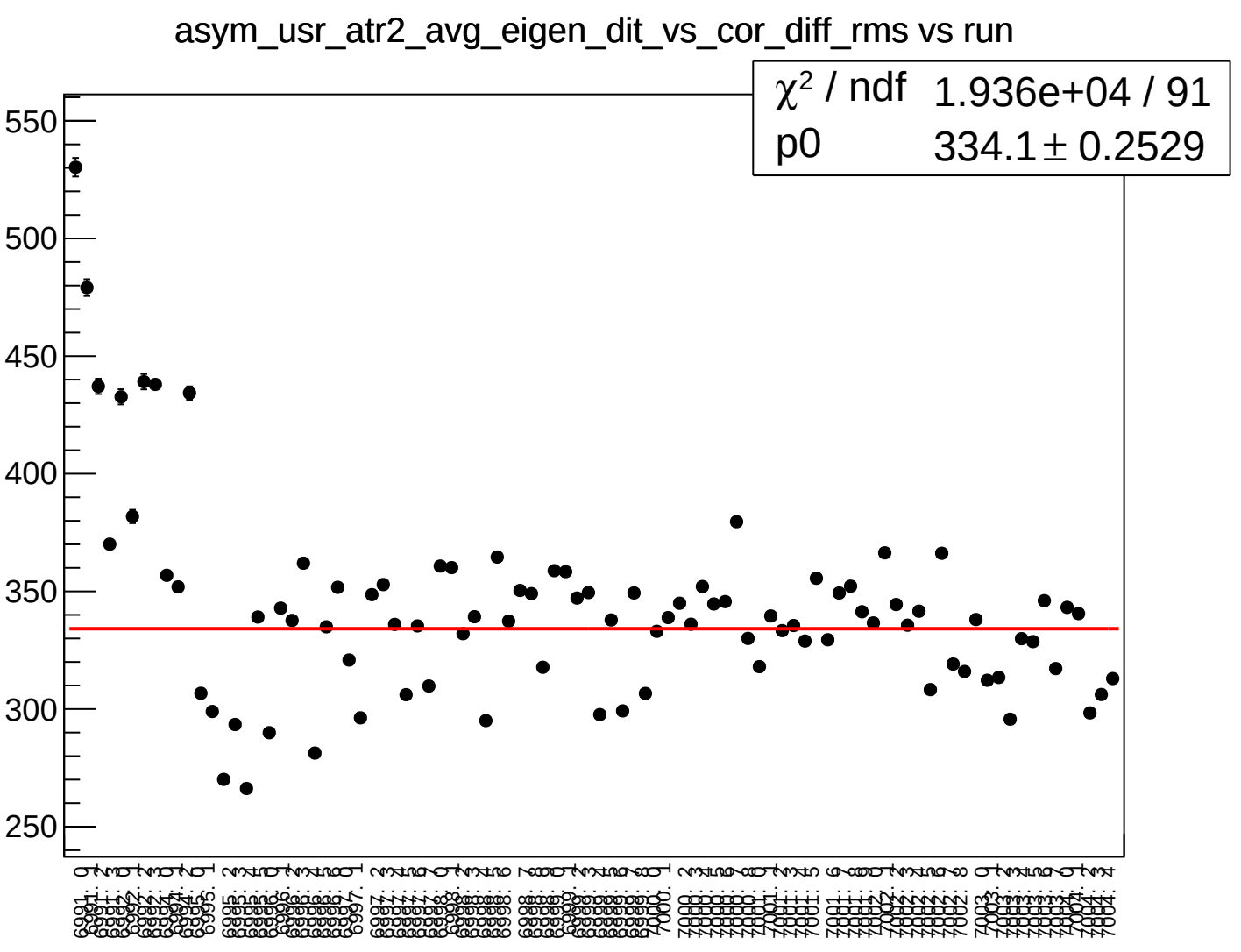

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.936e+04 / 91
p0 334.1 ± 0.2529
550
500
450
400
350
300
250

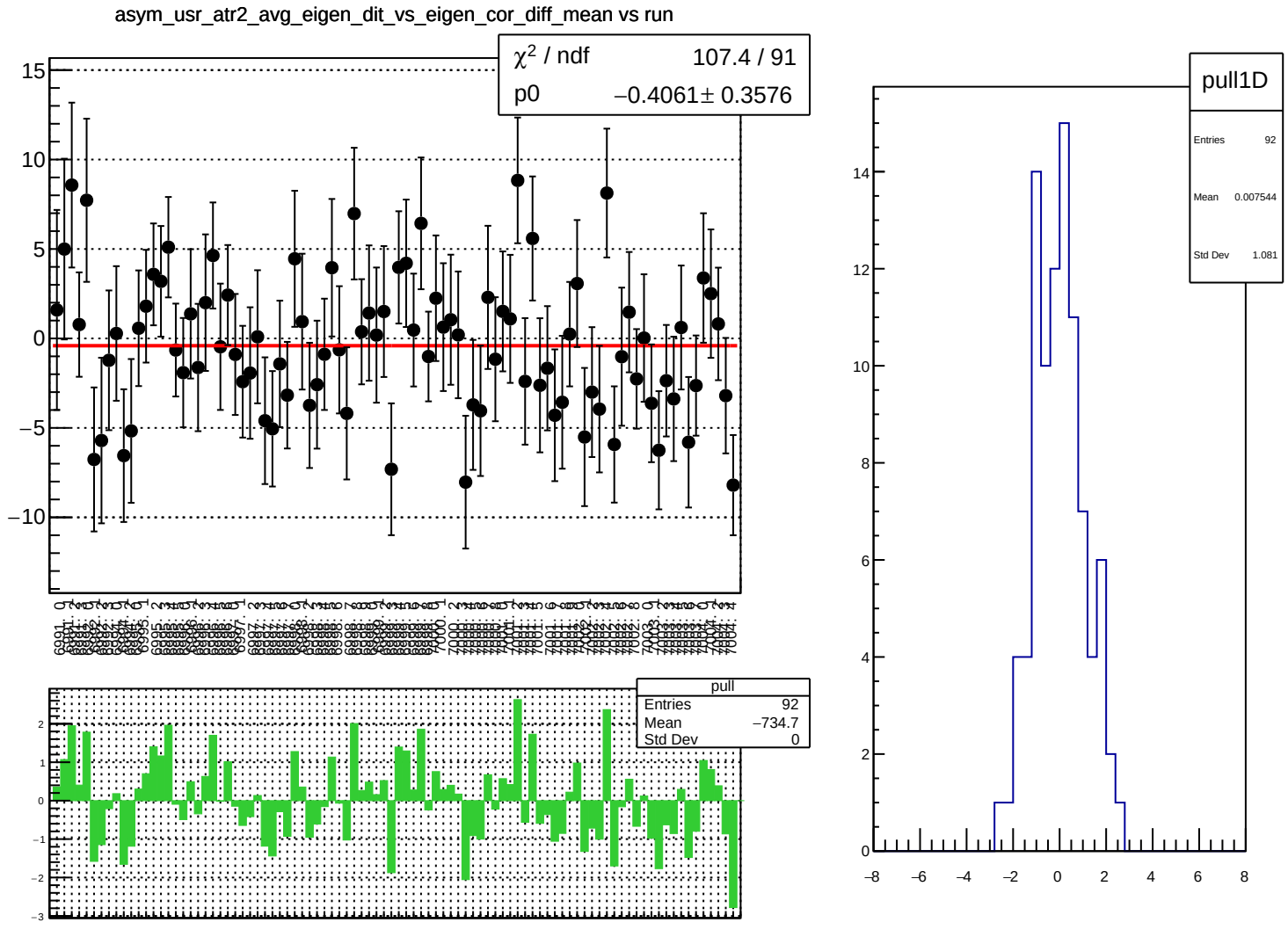

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 107.4 / 91
p0 −1.503e−05 ± 1.251e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean −1755
Std Dev 0
3
2
1
0
−1
−2
−3

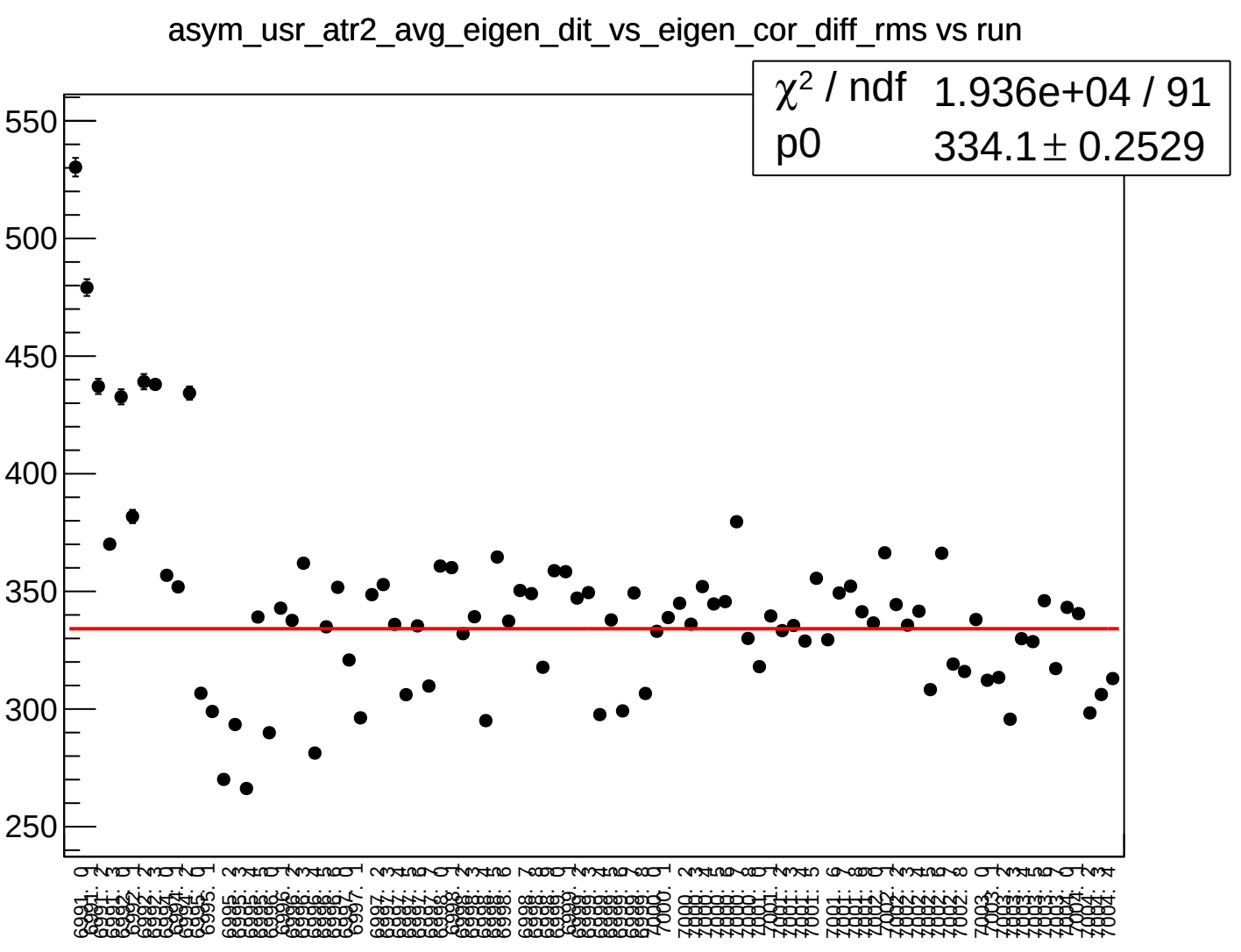

pull1D
Entries 92
Mean 0.002093
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

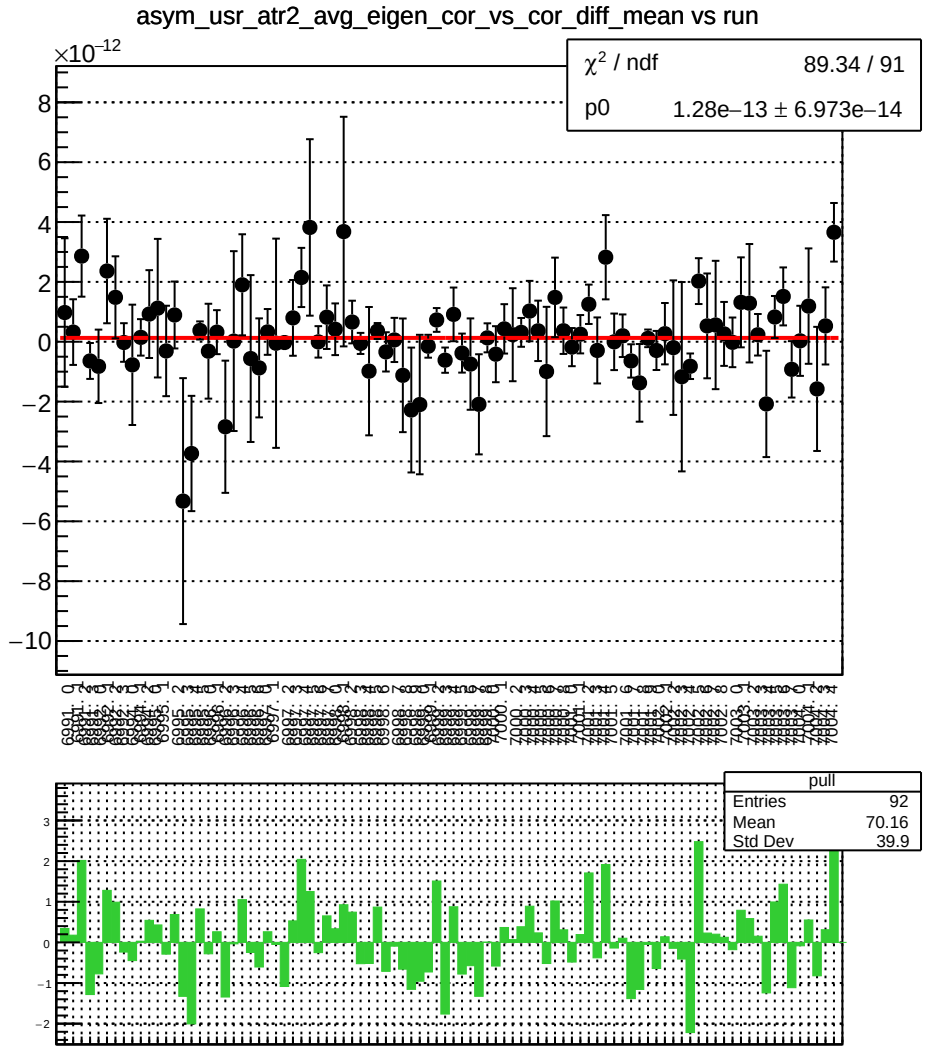

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.773e+04 / 91
p0 0.01169 ± 8.844e−06
0.014
0.013
0.012
0.011
0.01
0.009

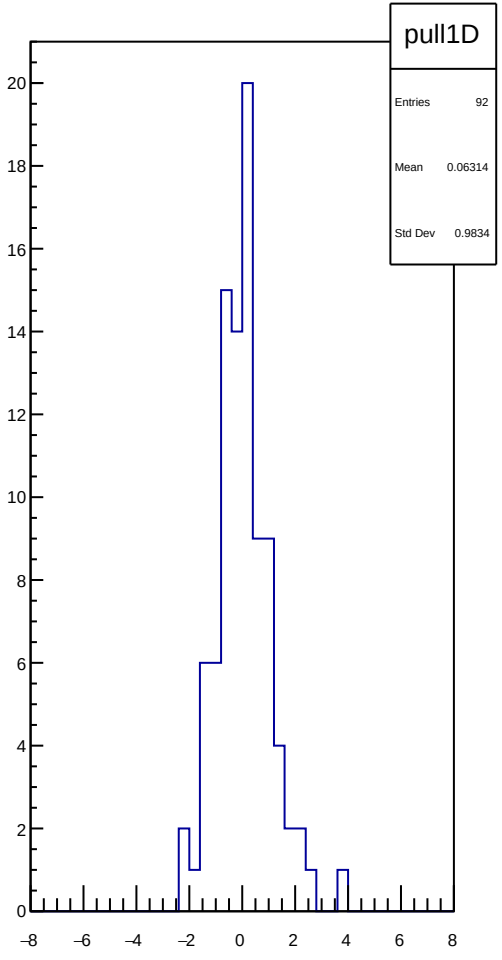

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.4 / 91
p0 −0.4061± 0.3576
pull
Entries 92
Mean −734.7
Std Dev 0
pull1D
Entries 92
Mean 0.007544
Std Dev 1.081

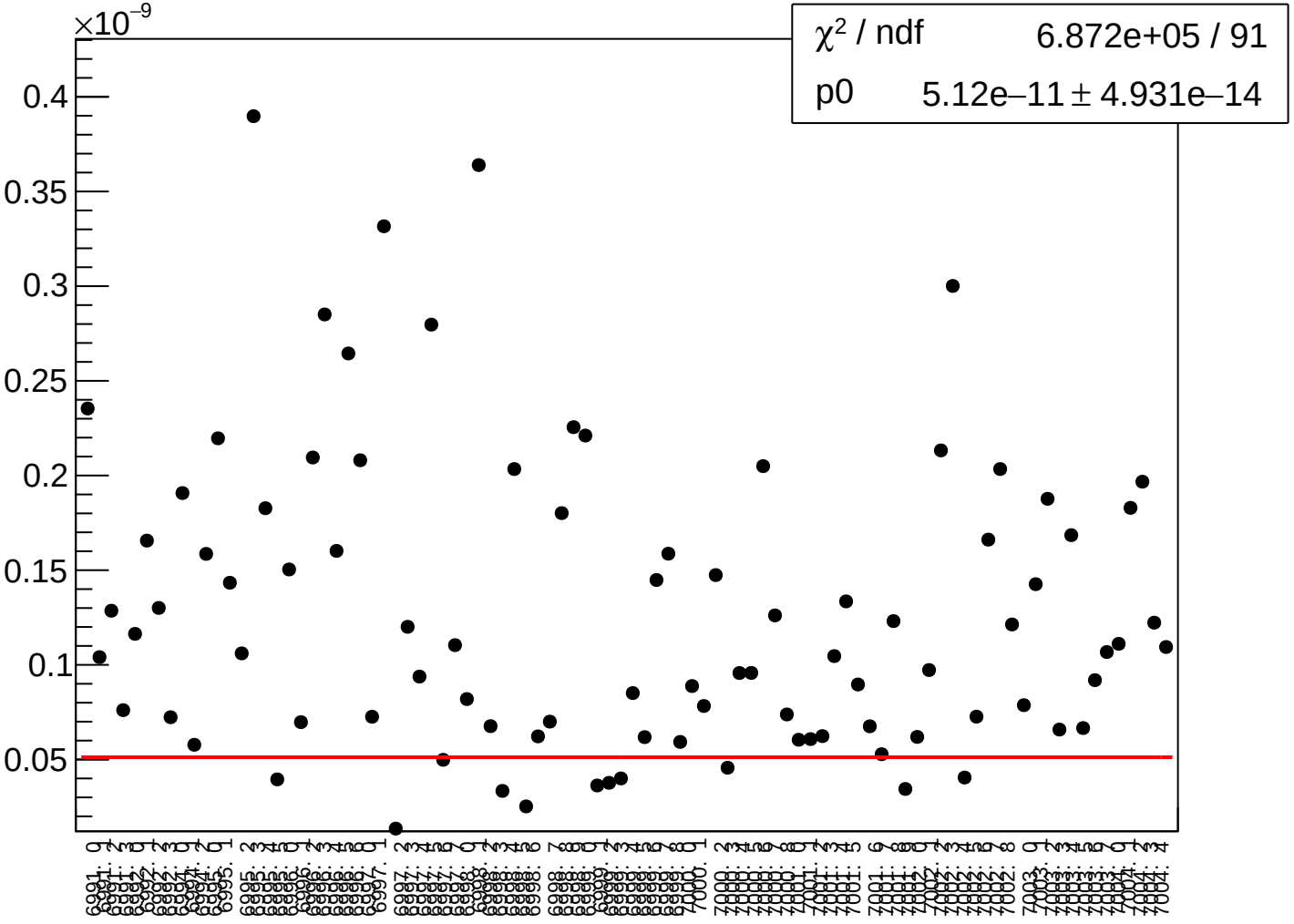

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.936e+04 / 91
p0 334.1 ± 0.2529
550
500
450
400
350
300
250

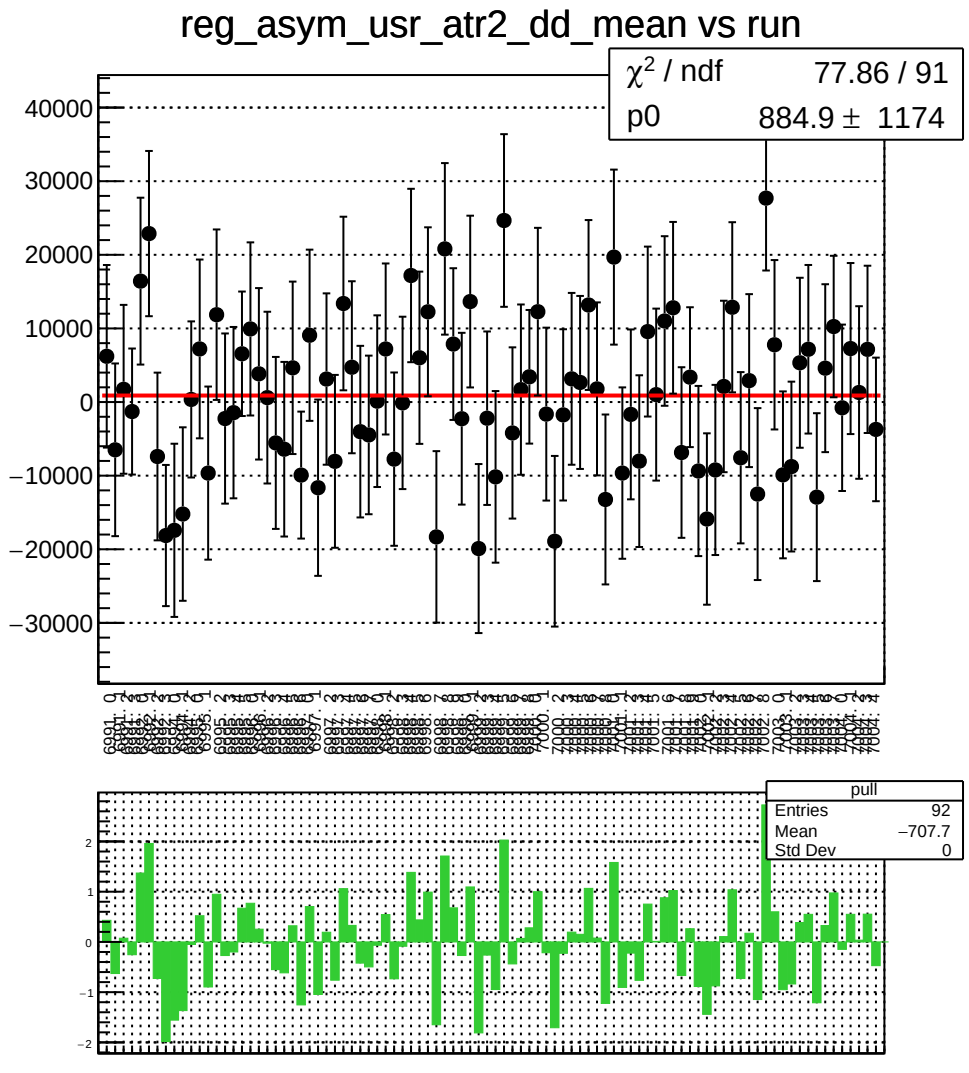

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.4 / 91
p0 −0.4061± 0.3576
pull
Entries 92
Mean −734.7
Std Dev 0
pull1D
Entries 92
Mean 0.007544
Std Dev 1.081

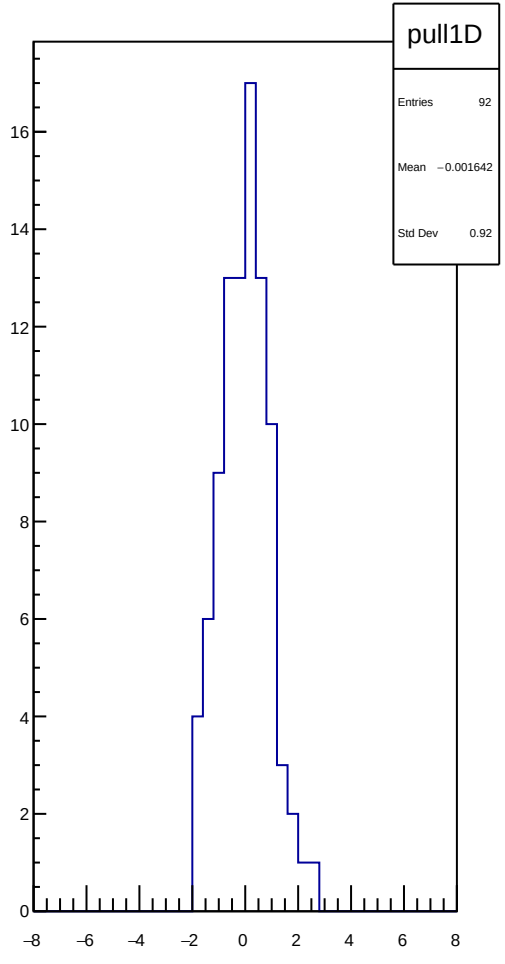

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.936e+04 / 91
p0 334.1 ± 0.2529
550
500
450
400
350
300
250

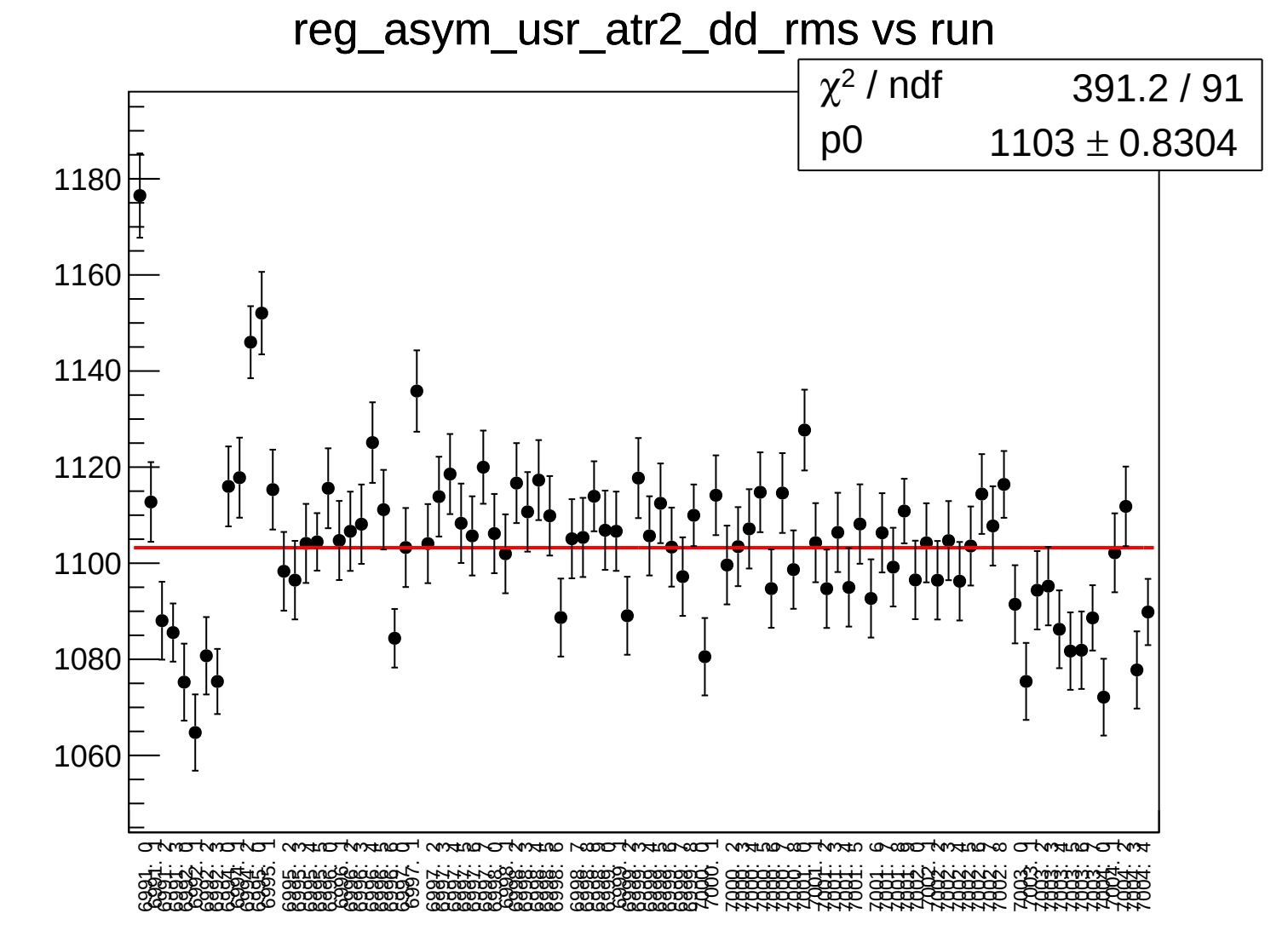

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.34 / 91
p0 1.28e−13 ± 6.973e−14
pull
Entries 92
Mean 70.16
Std Dev 39.9

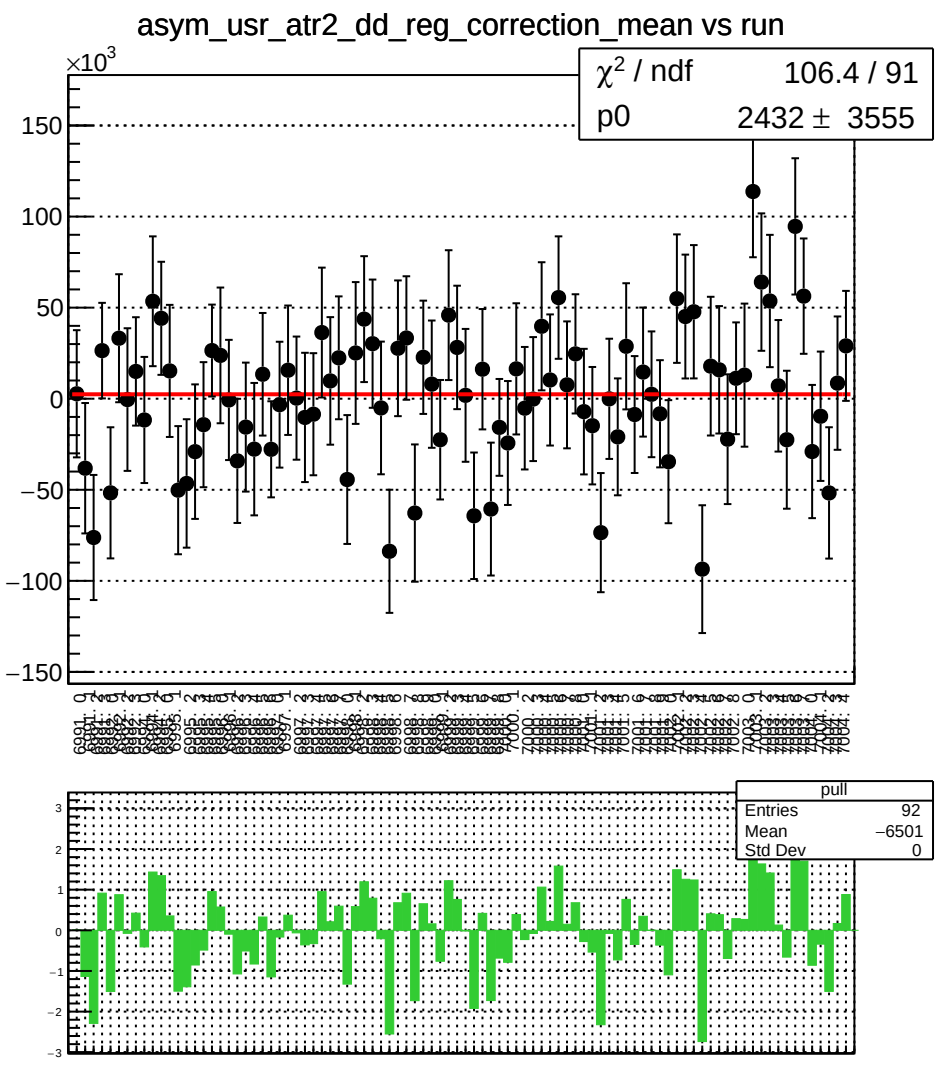

pull1D
Entries 92
Mean 0.06314
Std Dev 0.9834

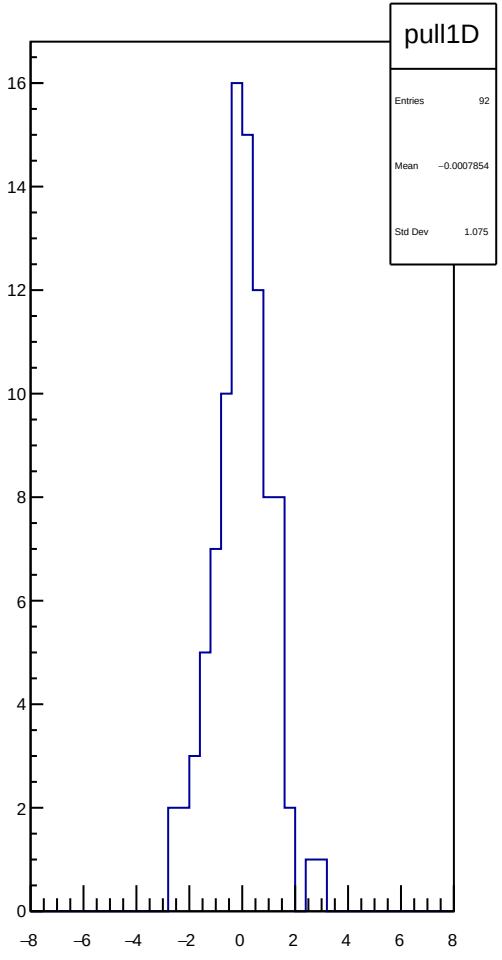

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.872e+05 / 91
p0 5.12e−11 ± 4.931e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

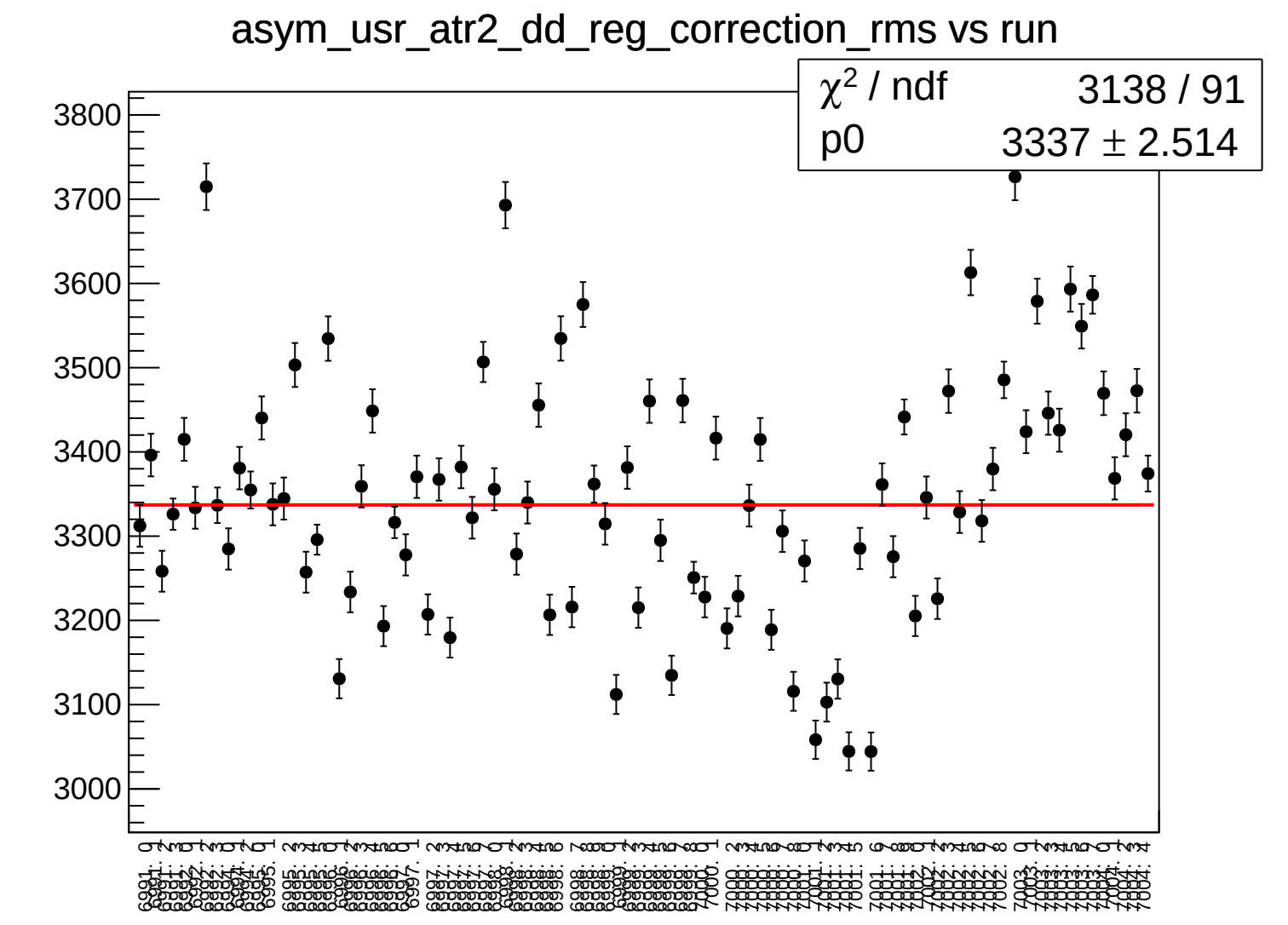

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 77.86 / 91
p0 884.9 ± 1174
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −707.7
Std Dev 0
2
1
0
−1
−2

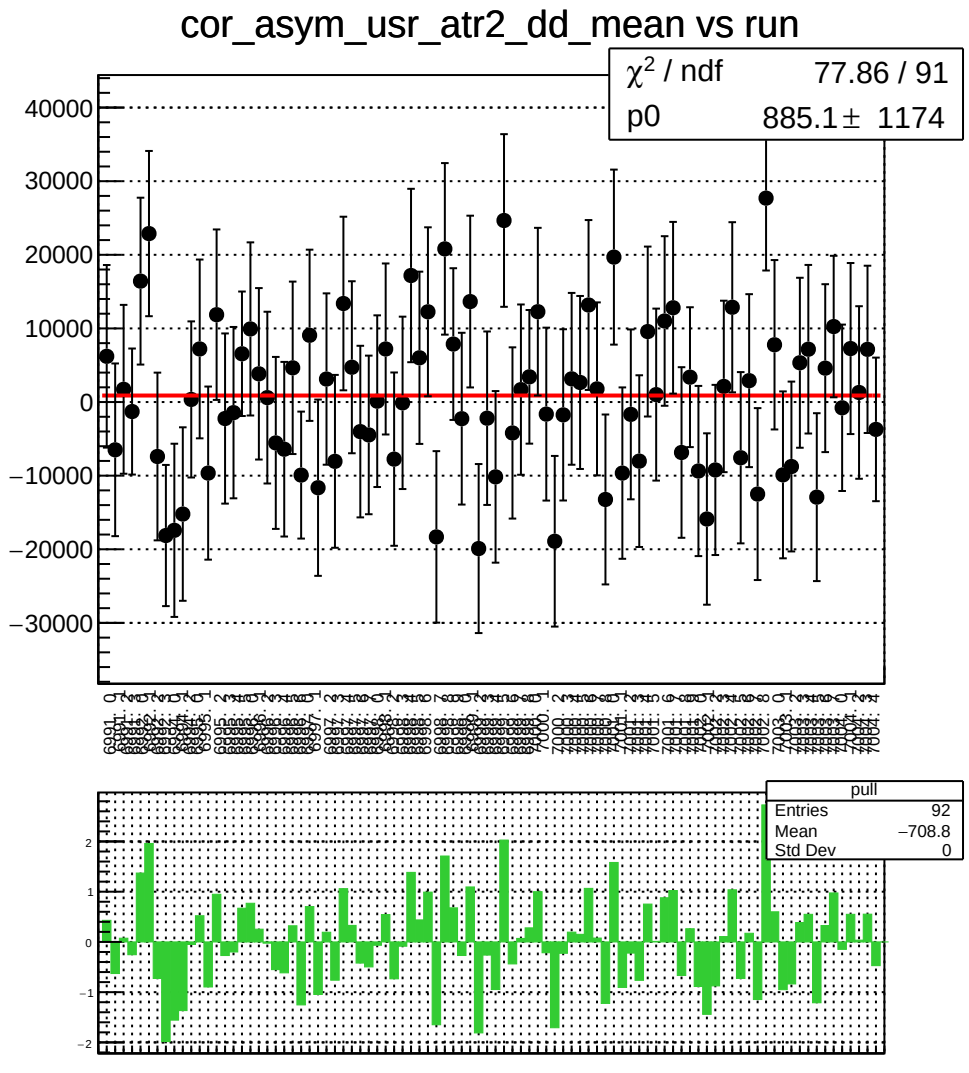

pull1D
Entries 92
Mean −0.001642
Std Dev 0.92
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

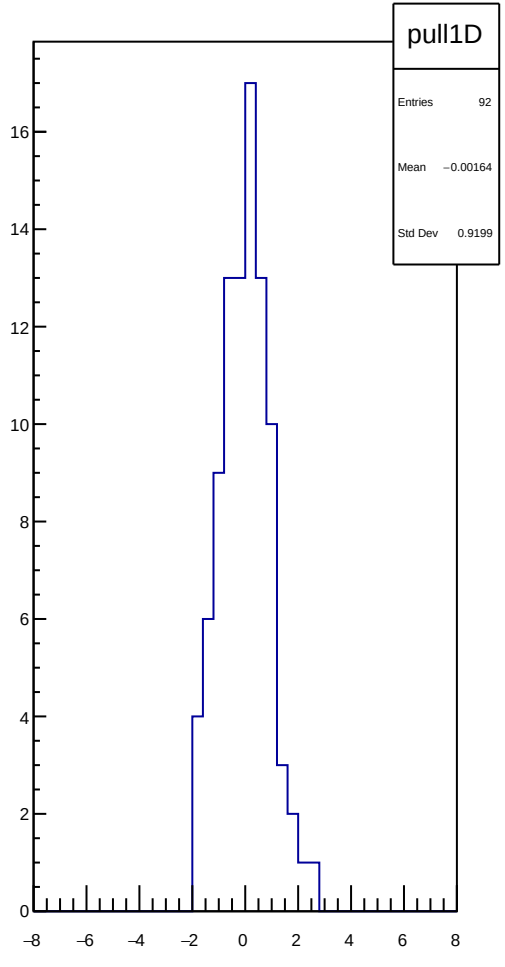

reg_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 391.2 / 91
p0 1103 ± 0.8304
1180
1160
1140
1120
1100
1080
1060

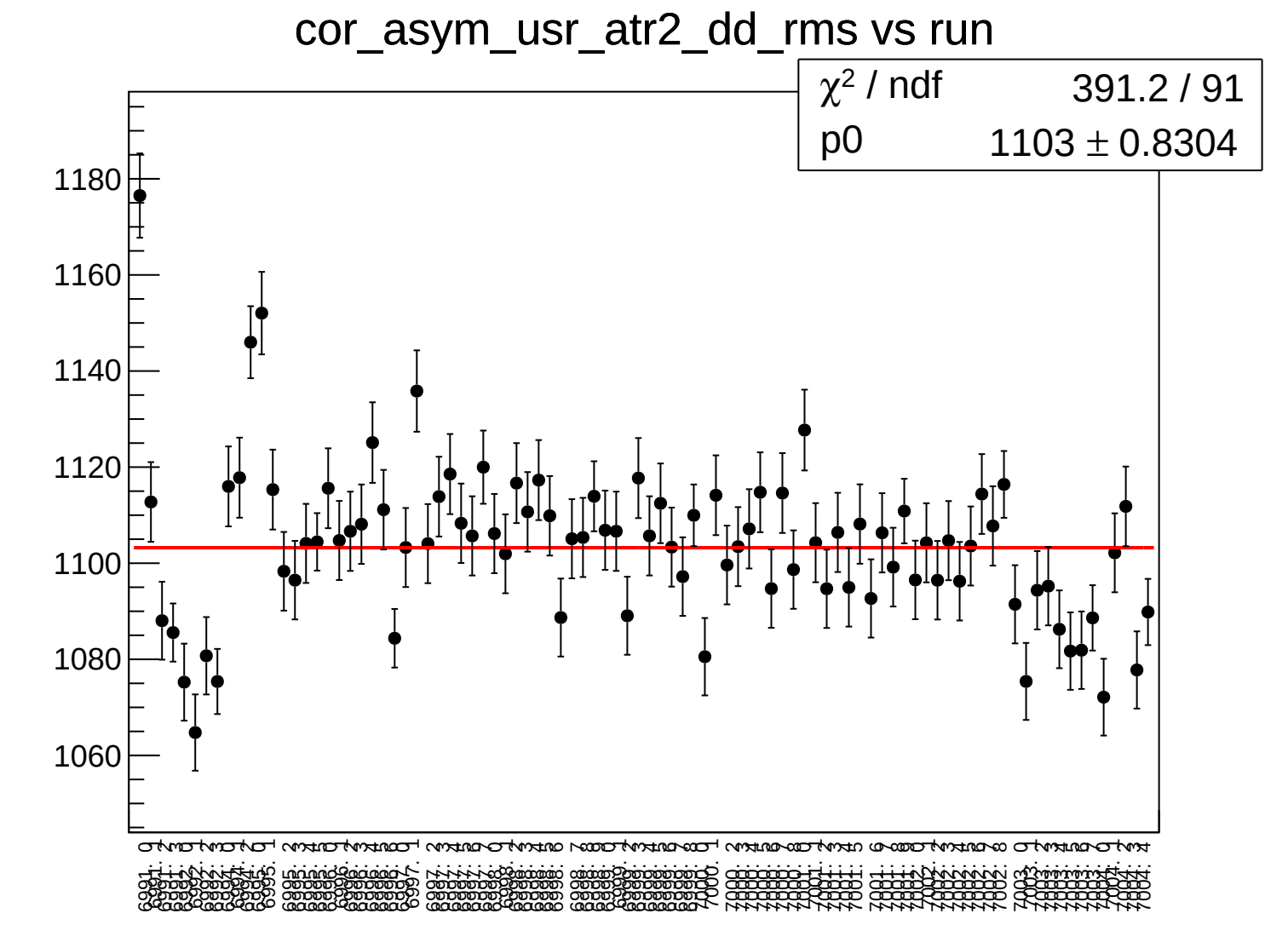

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 2432 ± 3555
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −6501
Std Dev 0
3
2
1
0
−1
−2
−3

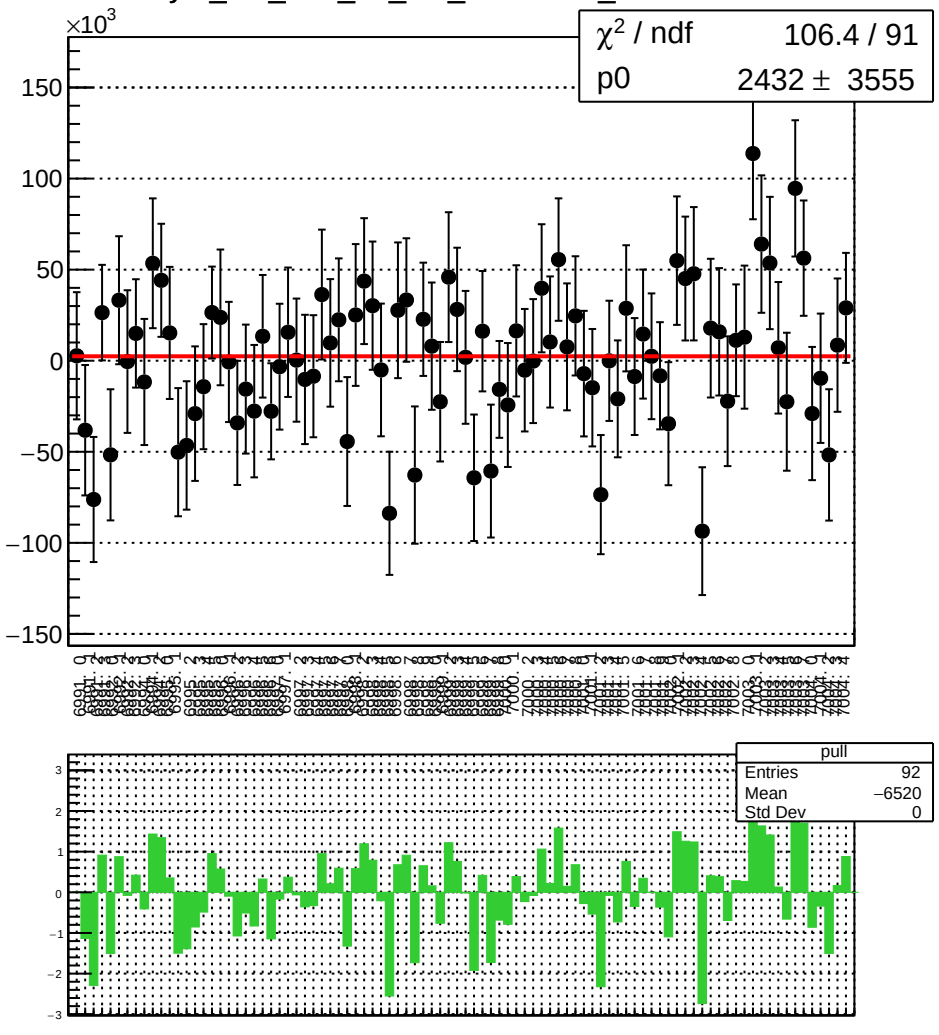

pull1D
Entries 92
Mean −0.0007854
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

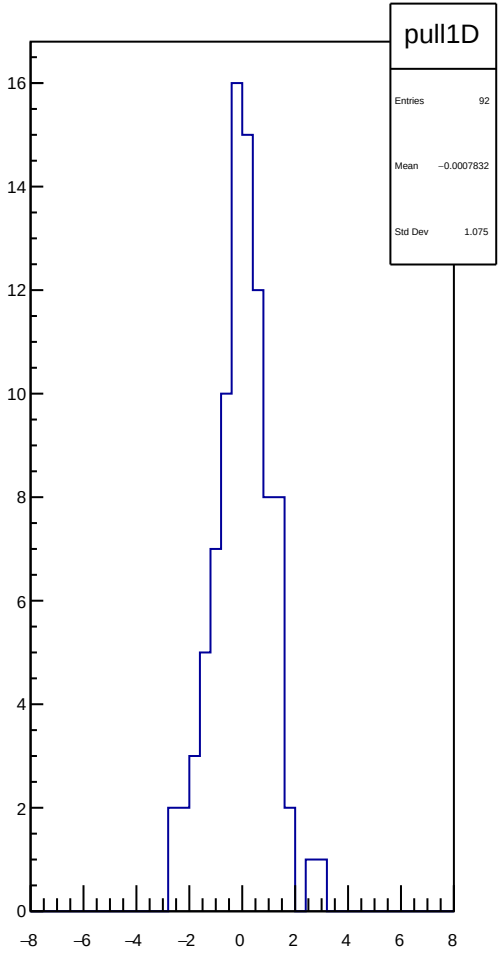

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3138 / 91
p0 3337 ± 2.514
3800
3700
3600
3500
3400
3300
3200
3100
3000

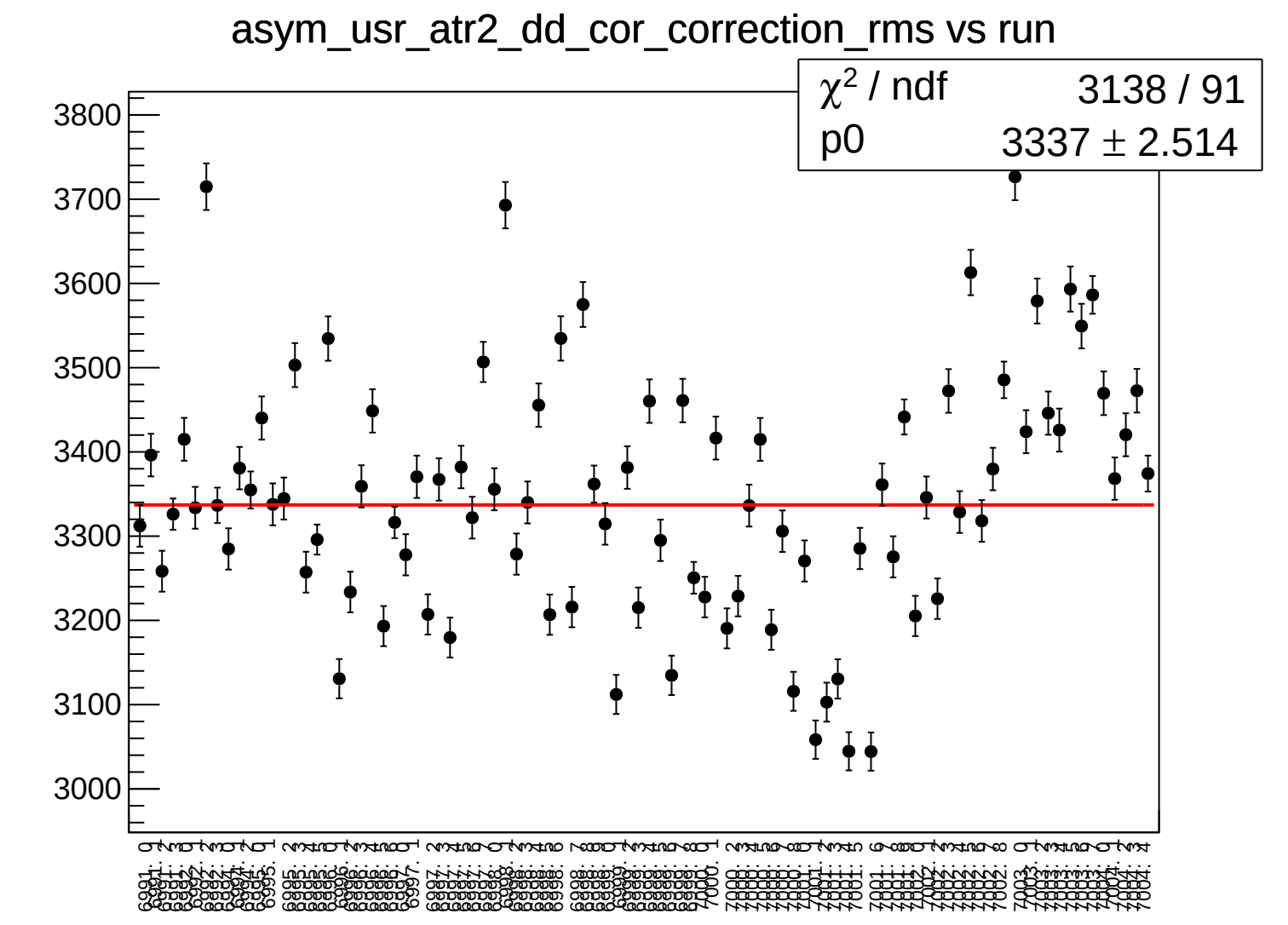

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 77.86 / 91
p0 885.1± 1174
pull
Entries 92
Mean −708.8
Std Dev 0

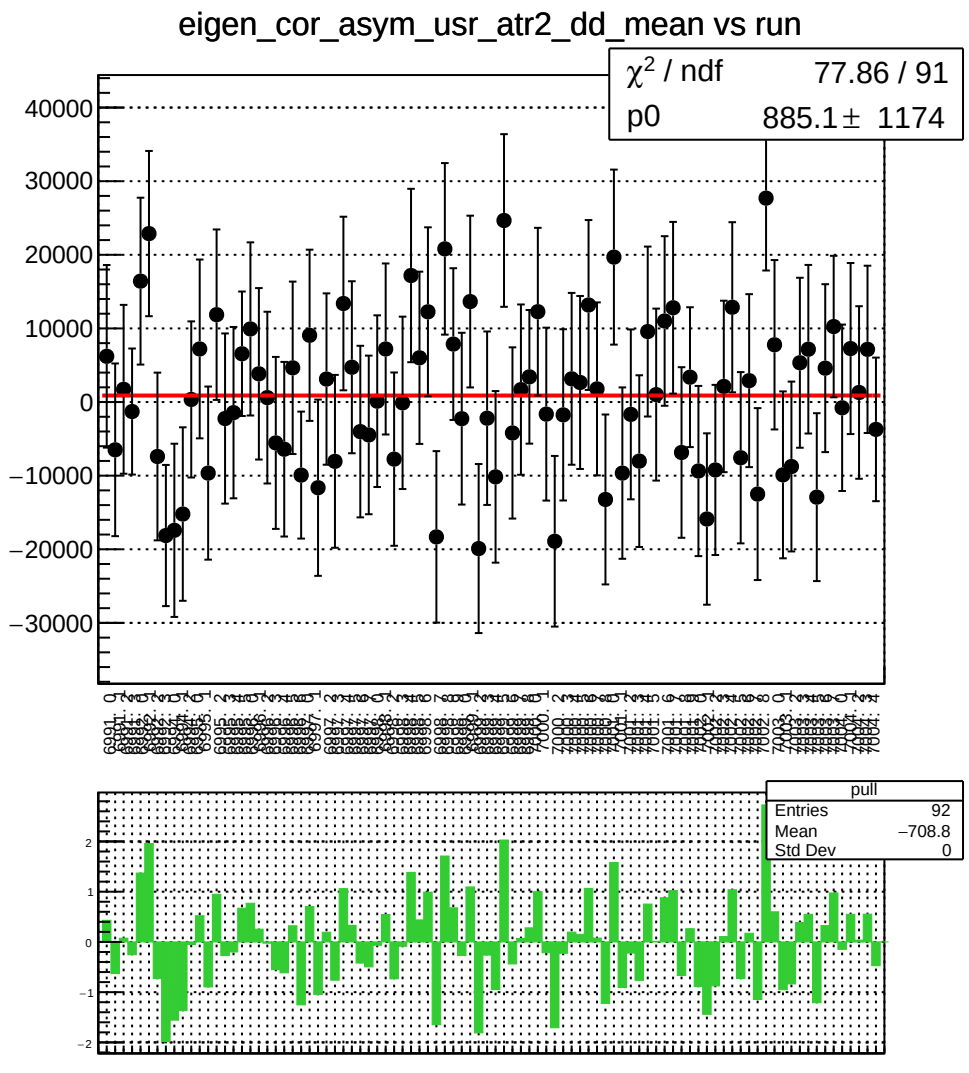

pull1D
Entries 92
Mean −0.00164
Std Dev 0.9199

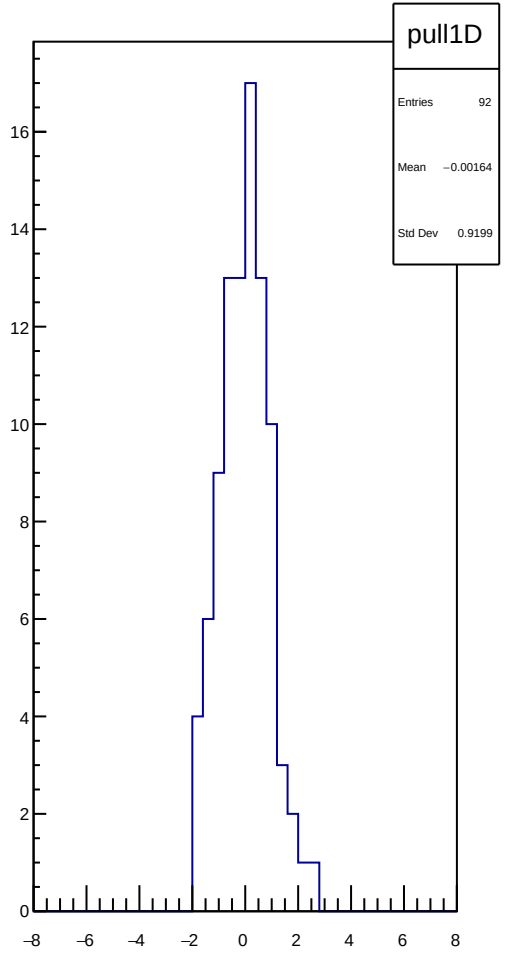

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 391.2 / 91
p0 1103 ± 0.8304
1180
1160
1140
1120
1100
1080
1060

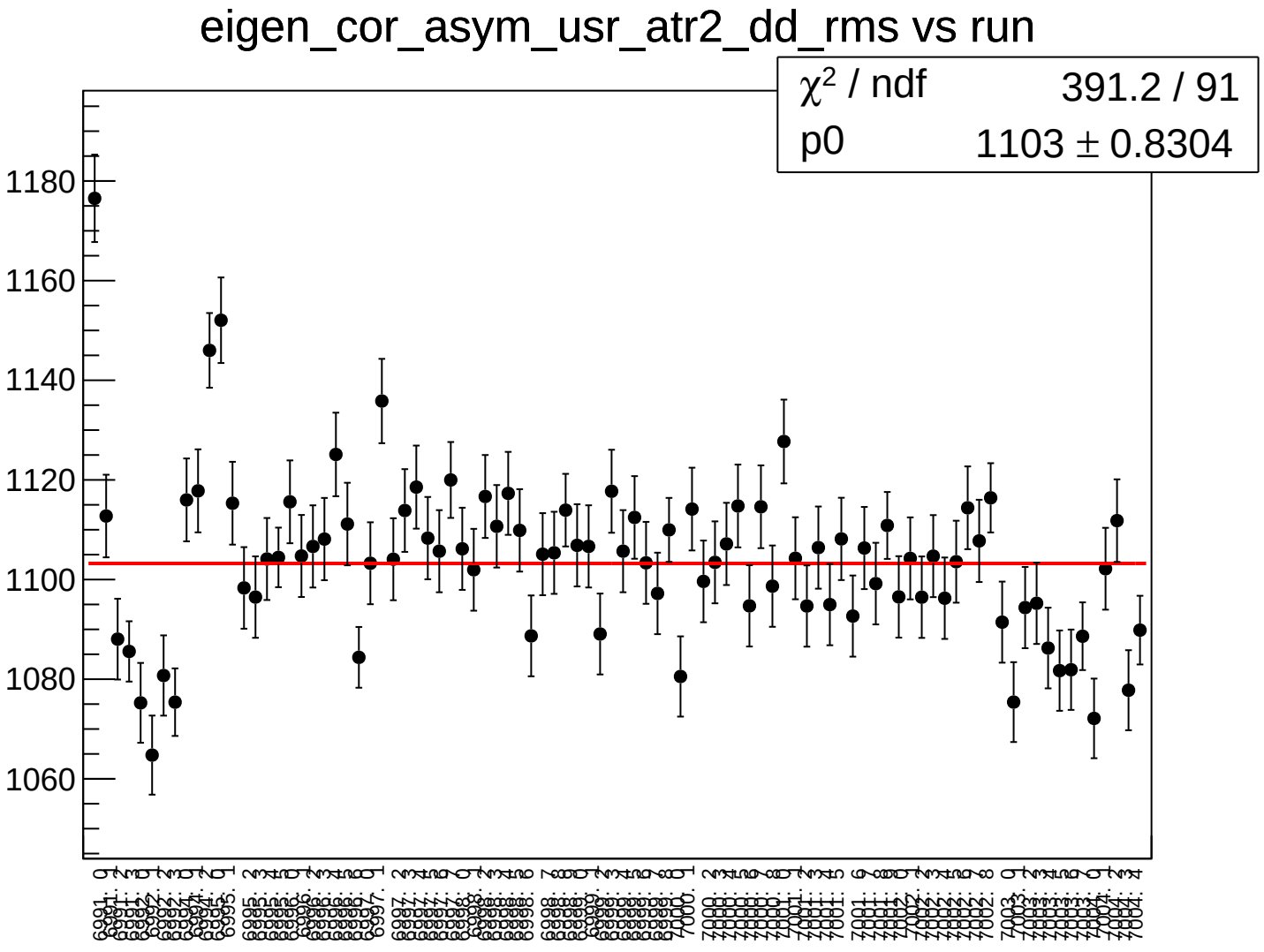

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.4 / 91
p0 2432 ± 3555
pull
Entries 92
Mean −6520
Std Dev 0

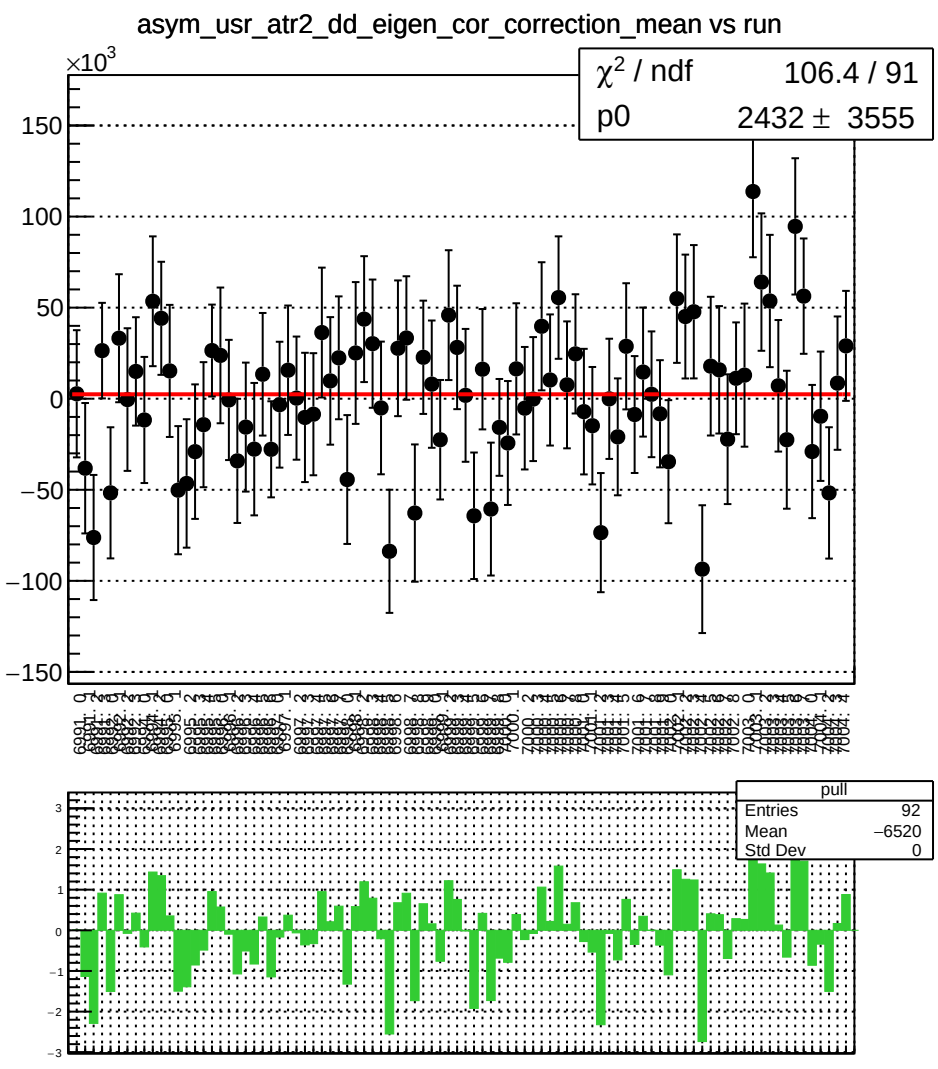

pull1D
Entries 92
Mean −0.0007832
Std Dev 1.075

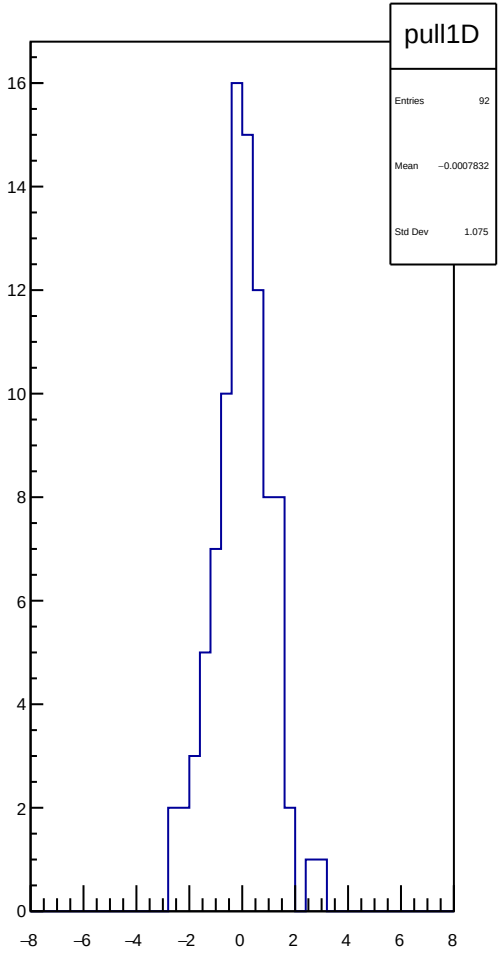

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3138 / 91
p0 3337 ± 2.514
3800
3700
3600
3500
3400
3300
3200
3100
3000

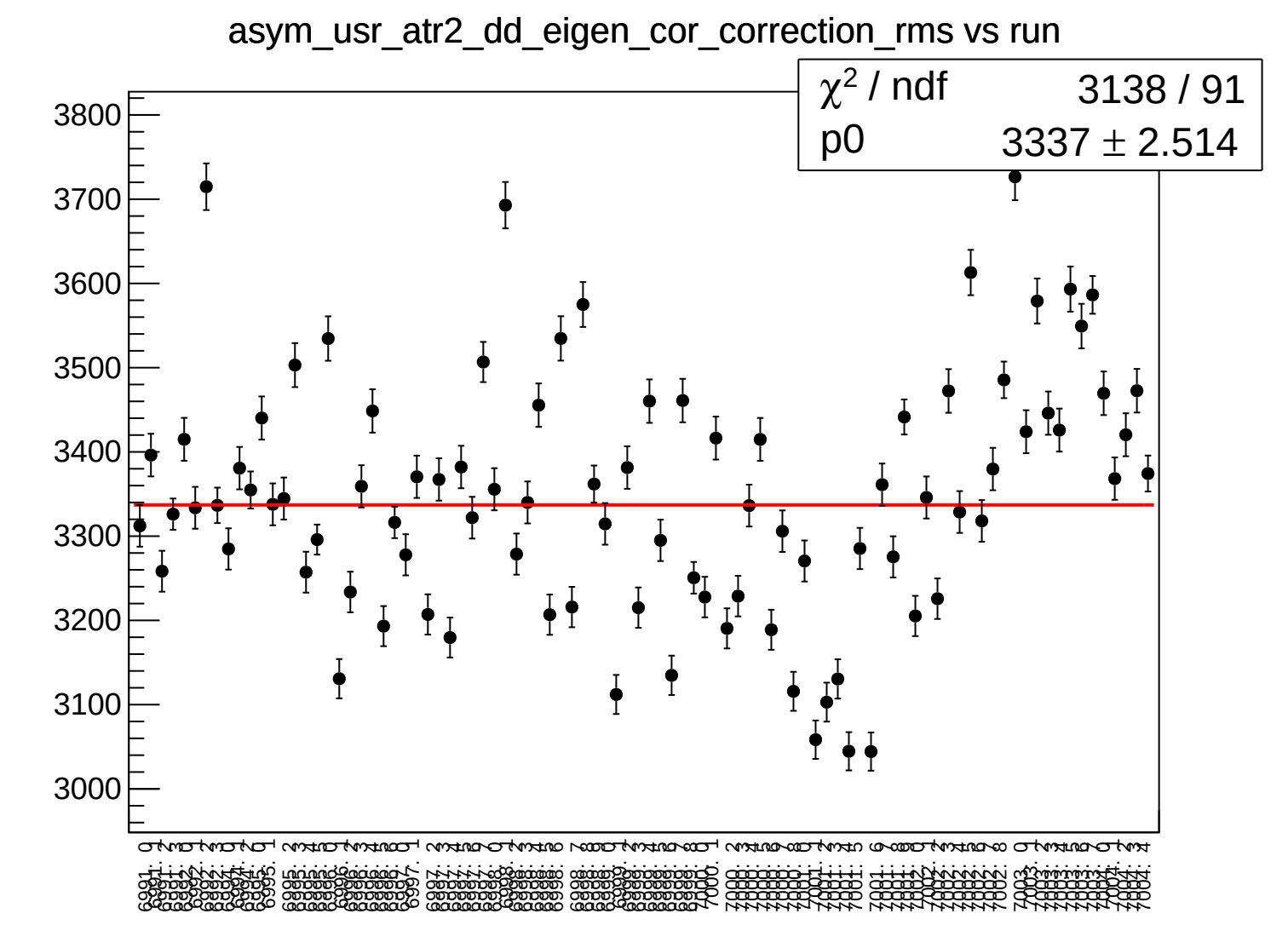

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 77.86 / 91
p0 885.1± 1174
pull
Entries 92
Mean −708.8
Std Dev 0

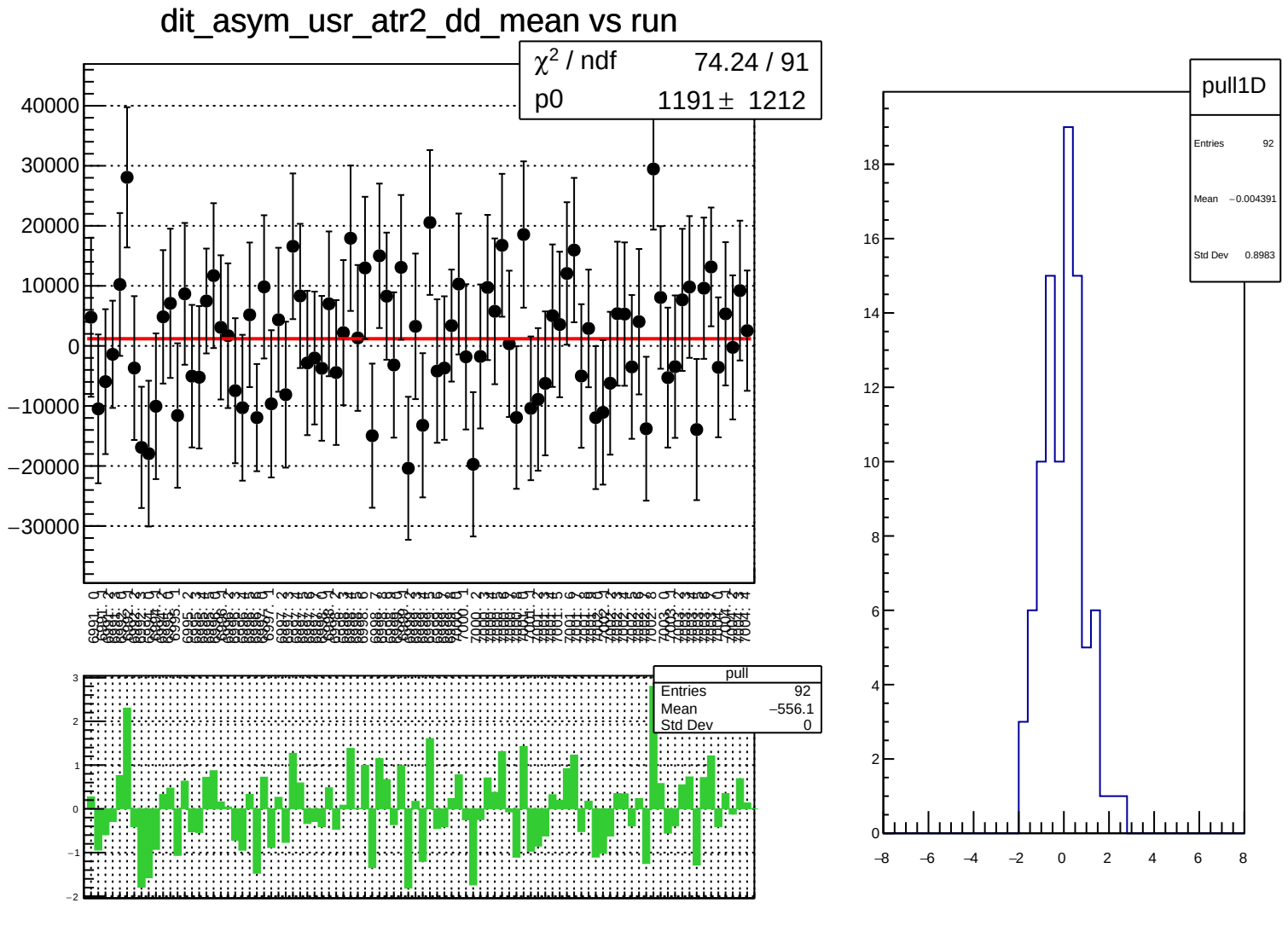

pull1D
Entries 92
Mean −0.00164
Std Dev 0.9199

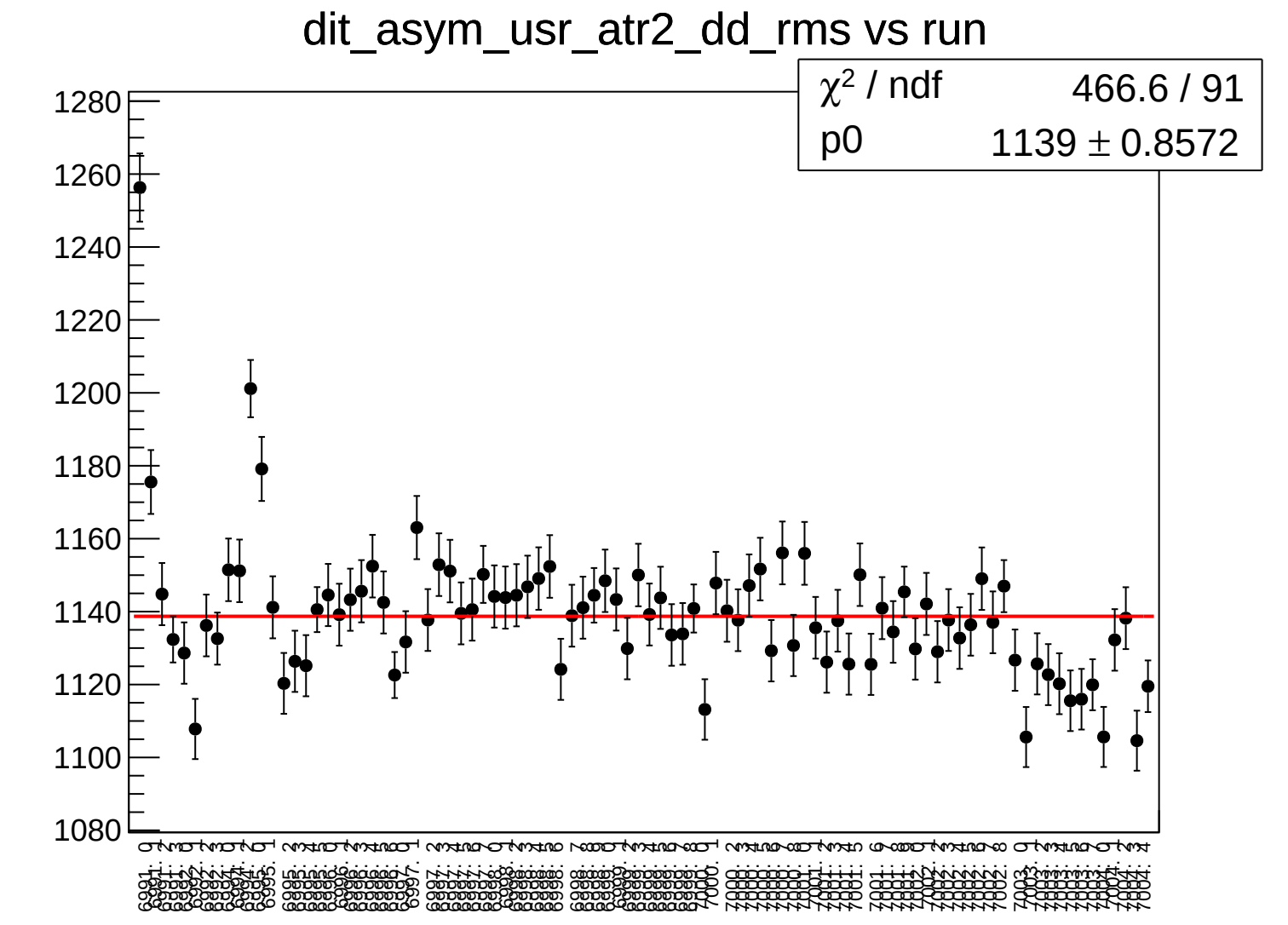

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 391.2 / 91
p0 1103 ± 0.8304
1180
1160
1140
1120
1100
1080
1060

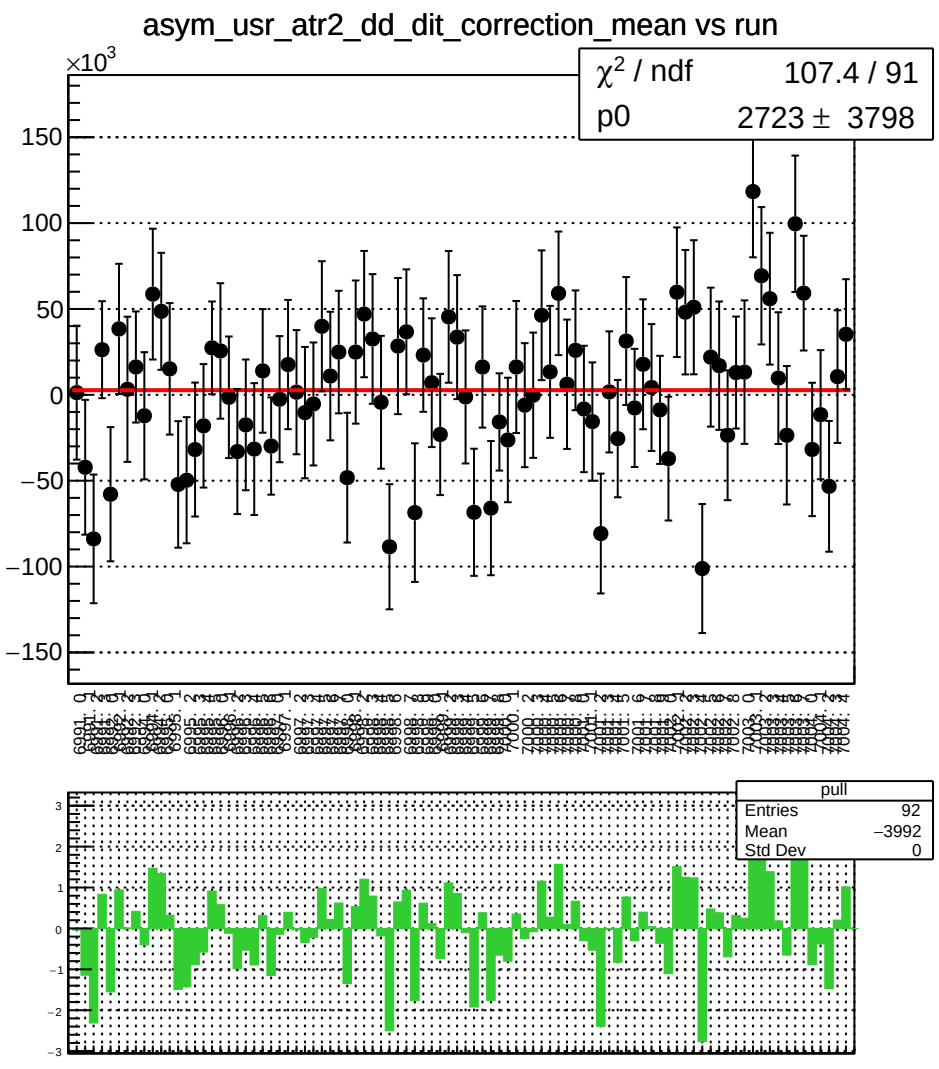

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.4 / 91
p0 2432 ± 3555
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −6520
Std Dev 0
3
2
1
0
−1
−2
−3

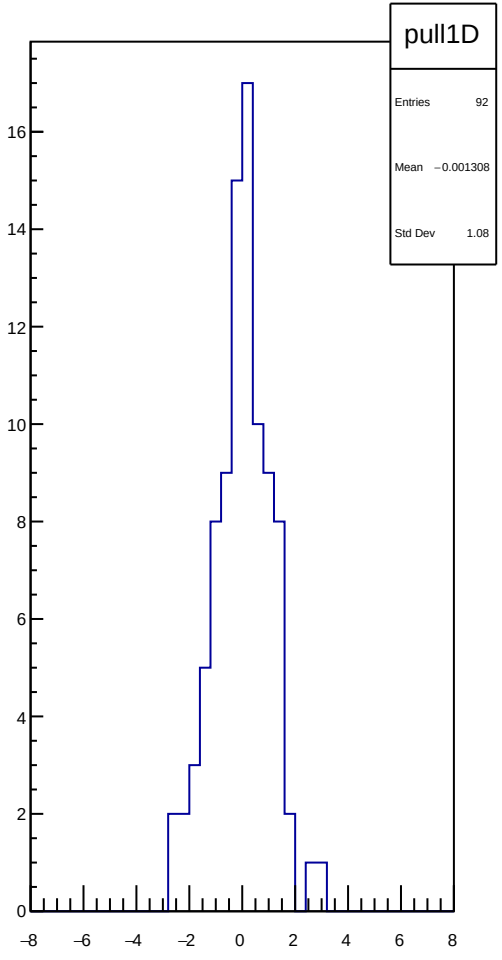

pull1D
Entries 92
Mean −0.0007832
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

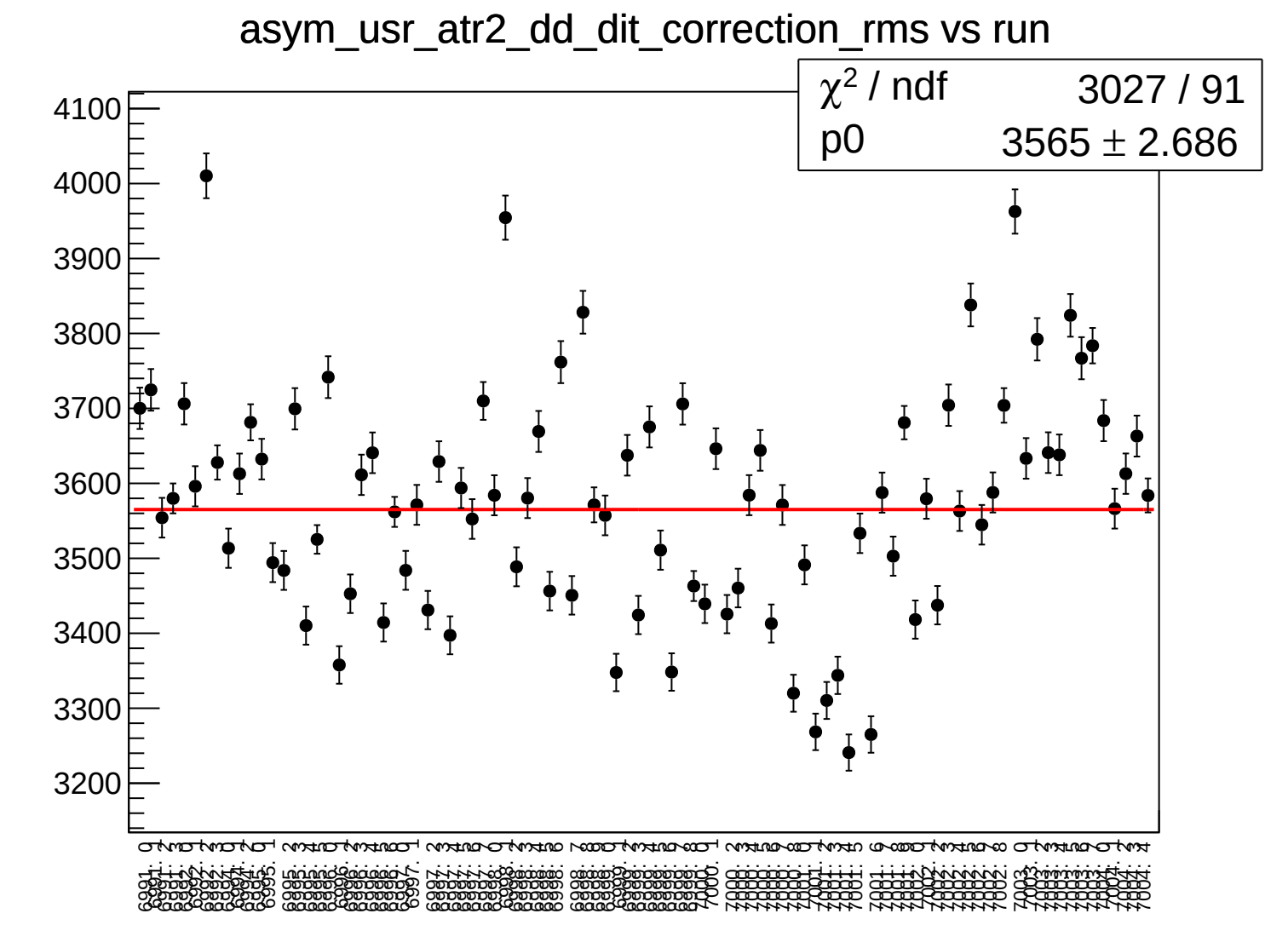

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3138 / 91
p0 3337 ± 2.514
3800
3700
3600
3500
3400
3300
3200
3100
3000

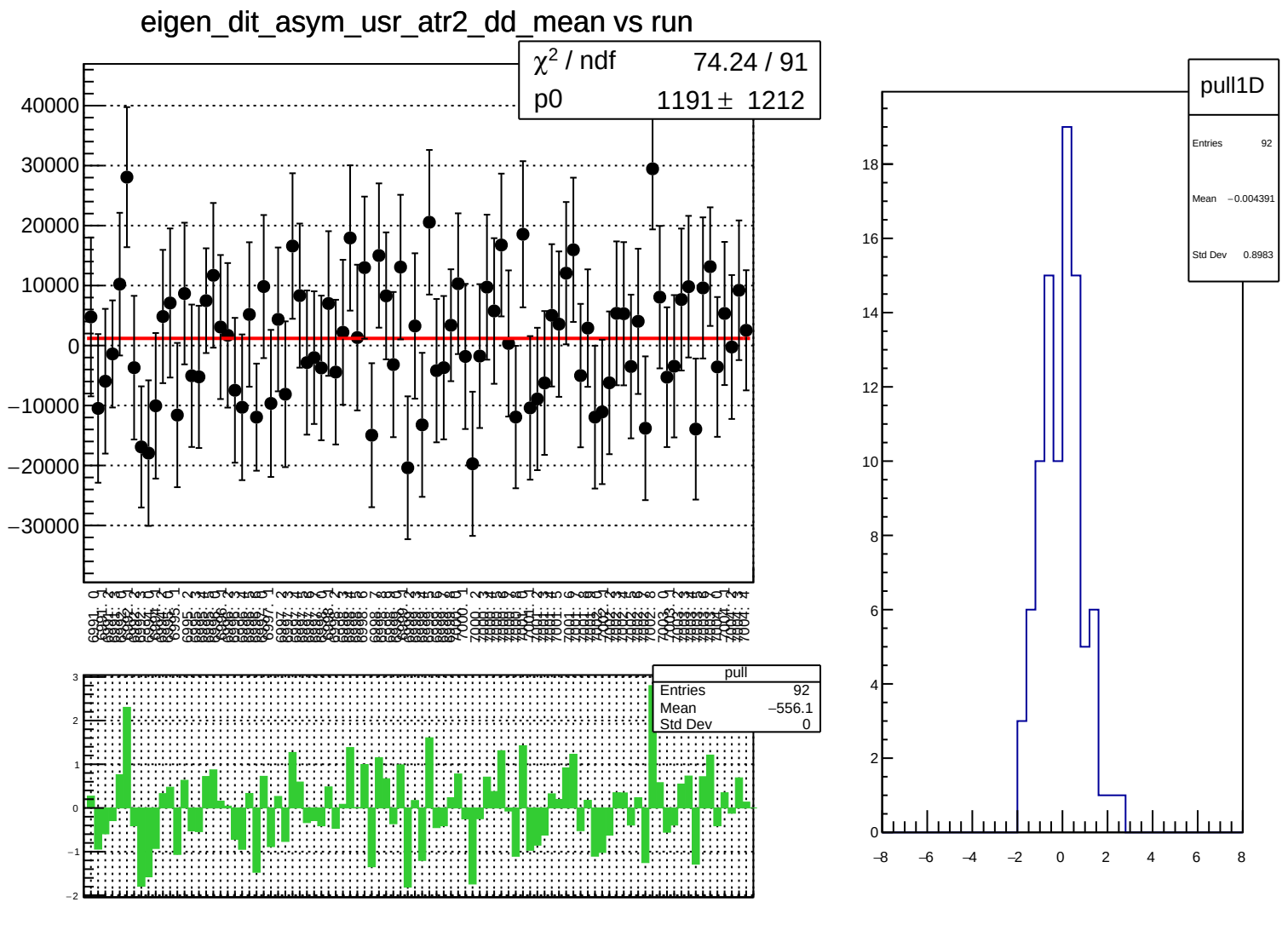

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 74.24 / 91
p0 1191 ± 1212
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −556.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004391
Std Dev 0.8983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

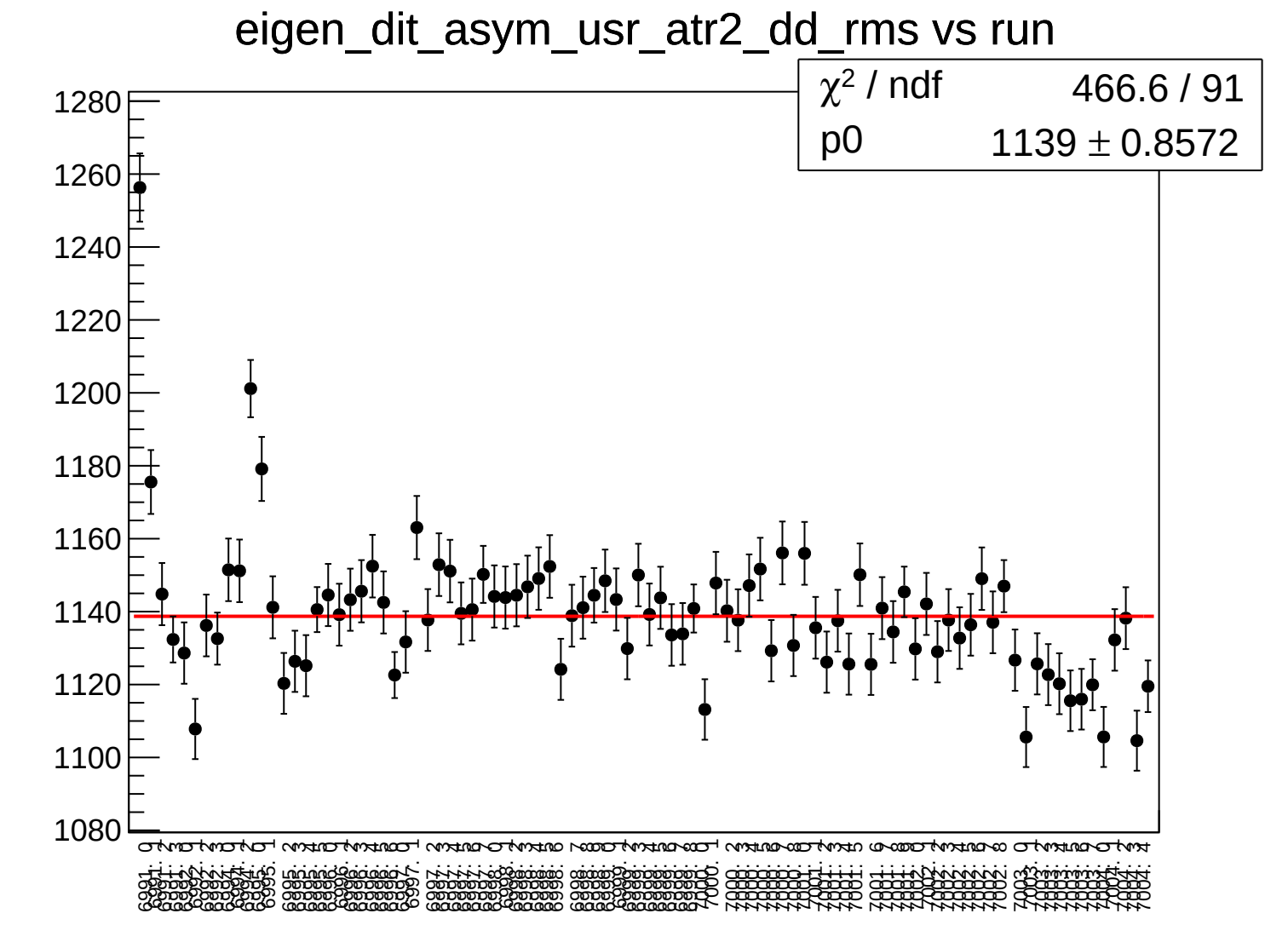

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 466.6 / 91
p0 1139 ± 0.8572
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

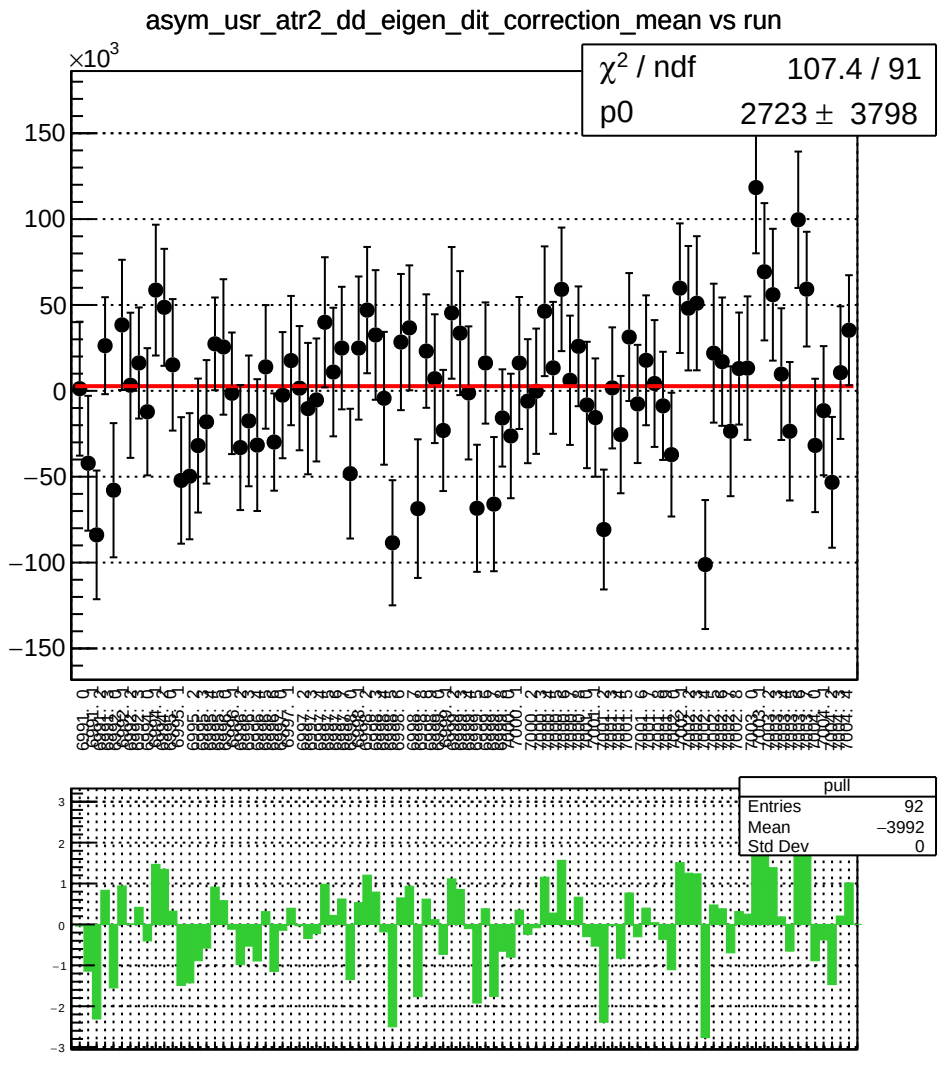

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.4 / 91
p0 2723 ± 3798
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −3992
Std Dev 0
3
2
1
0
−1
−2
−3

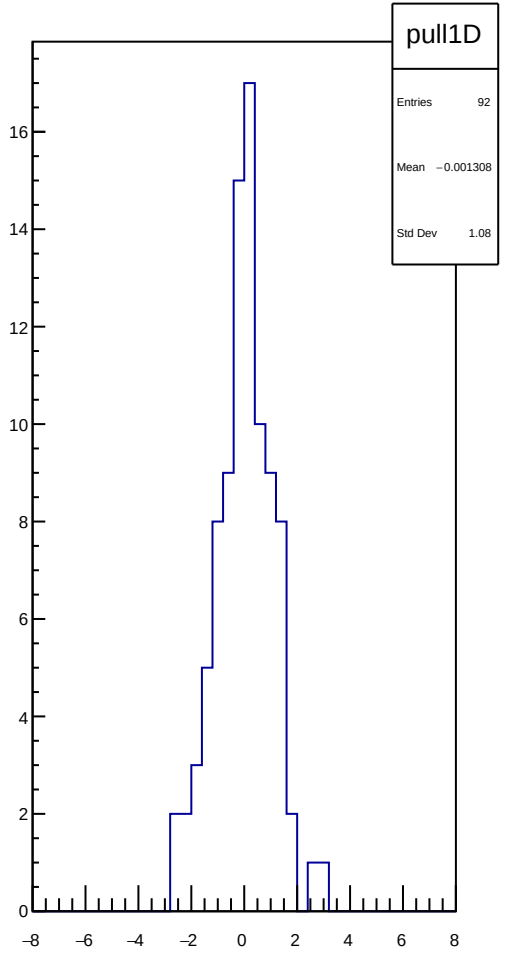

pull1D
Entries 92
Mean −0.001308
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

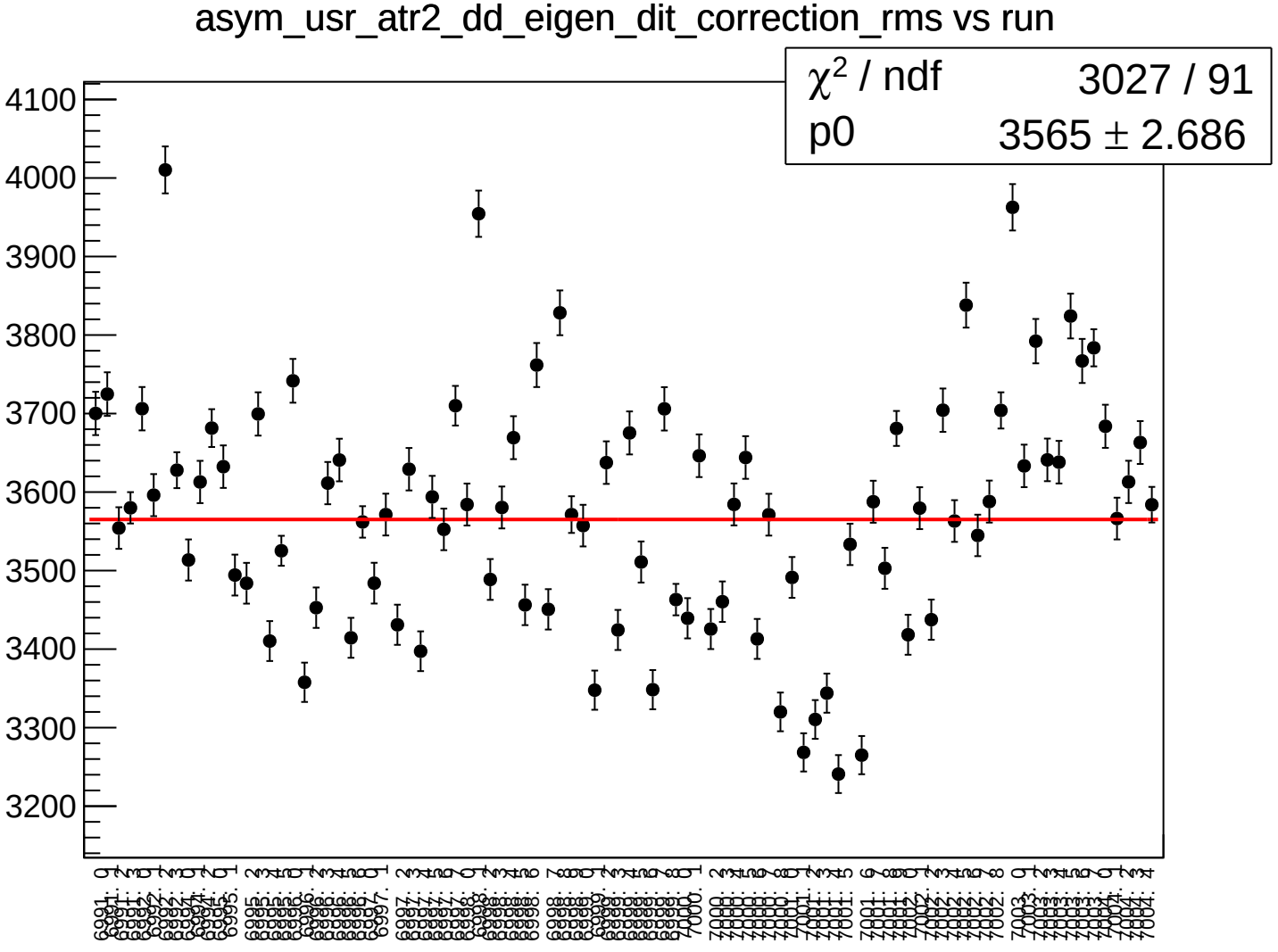

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 3027 / 91
p0 3565 ± 2.686
4100
4000
3900
3800
3700
3600
3500
3400
3300
3200

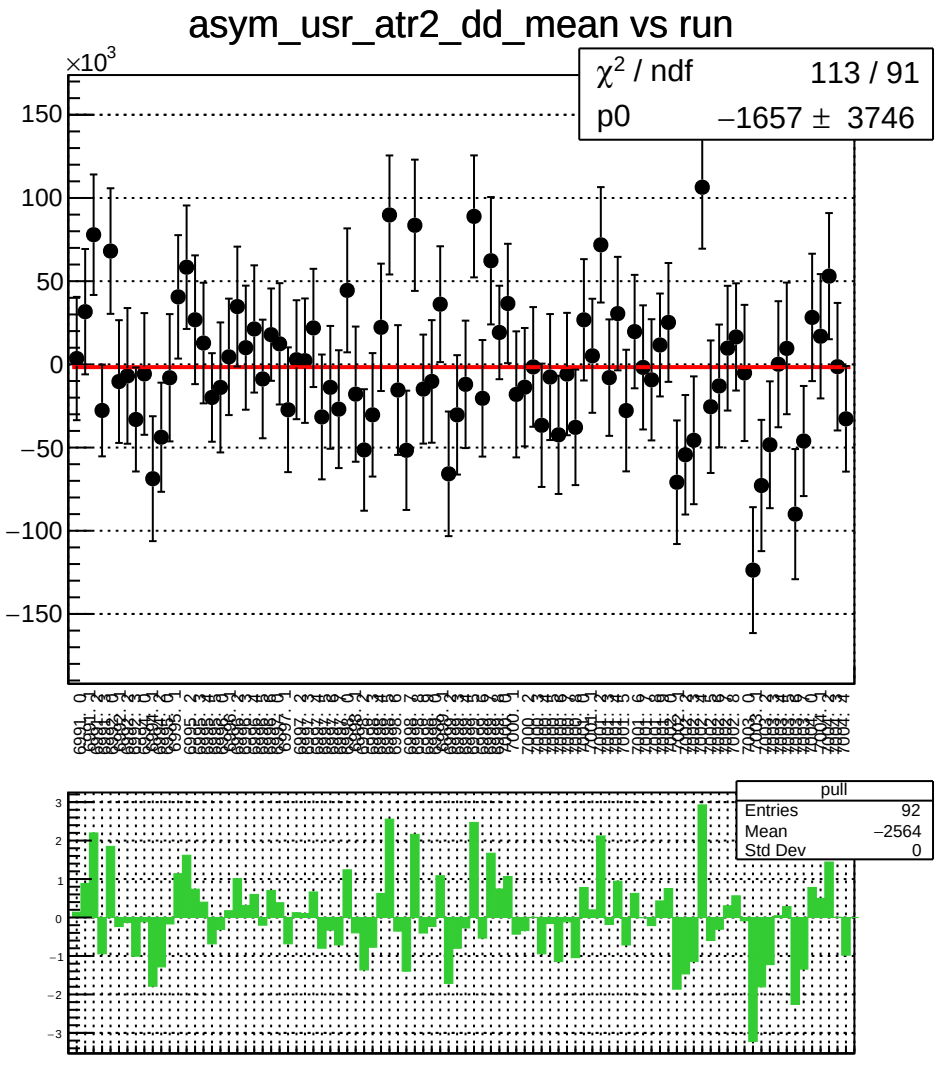

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 74.24 / 91
p0 1191 ± 1212
pull
Entries 92
Mean −556.1
Std Dev 0
pull1D
Entries 92
Mean −0.004391
Std Dev 0.8983

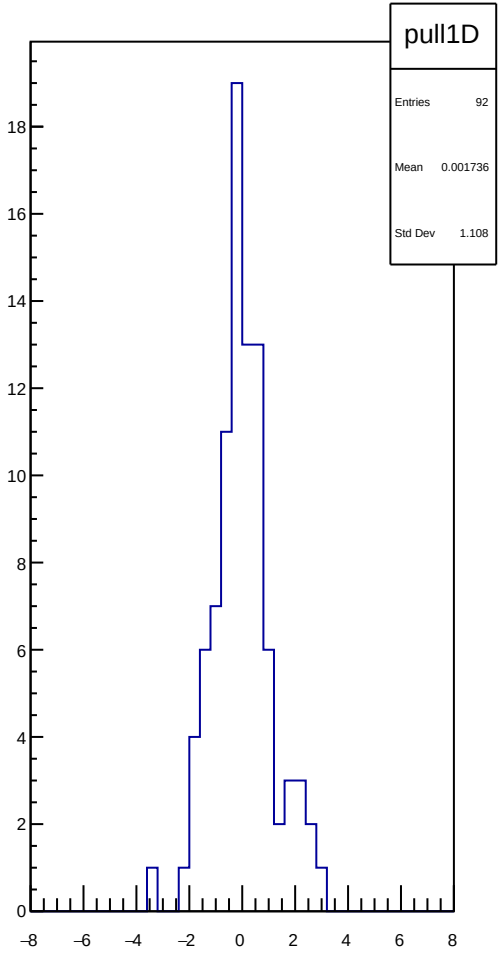

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 466.6 / 91
p0 1139 ± 0.8572
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

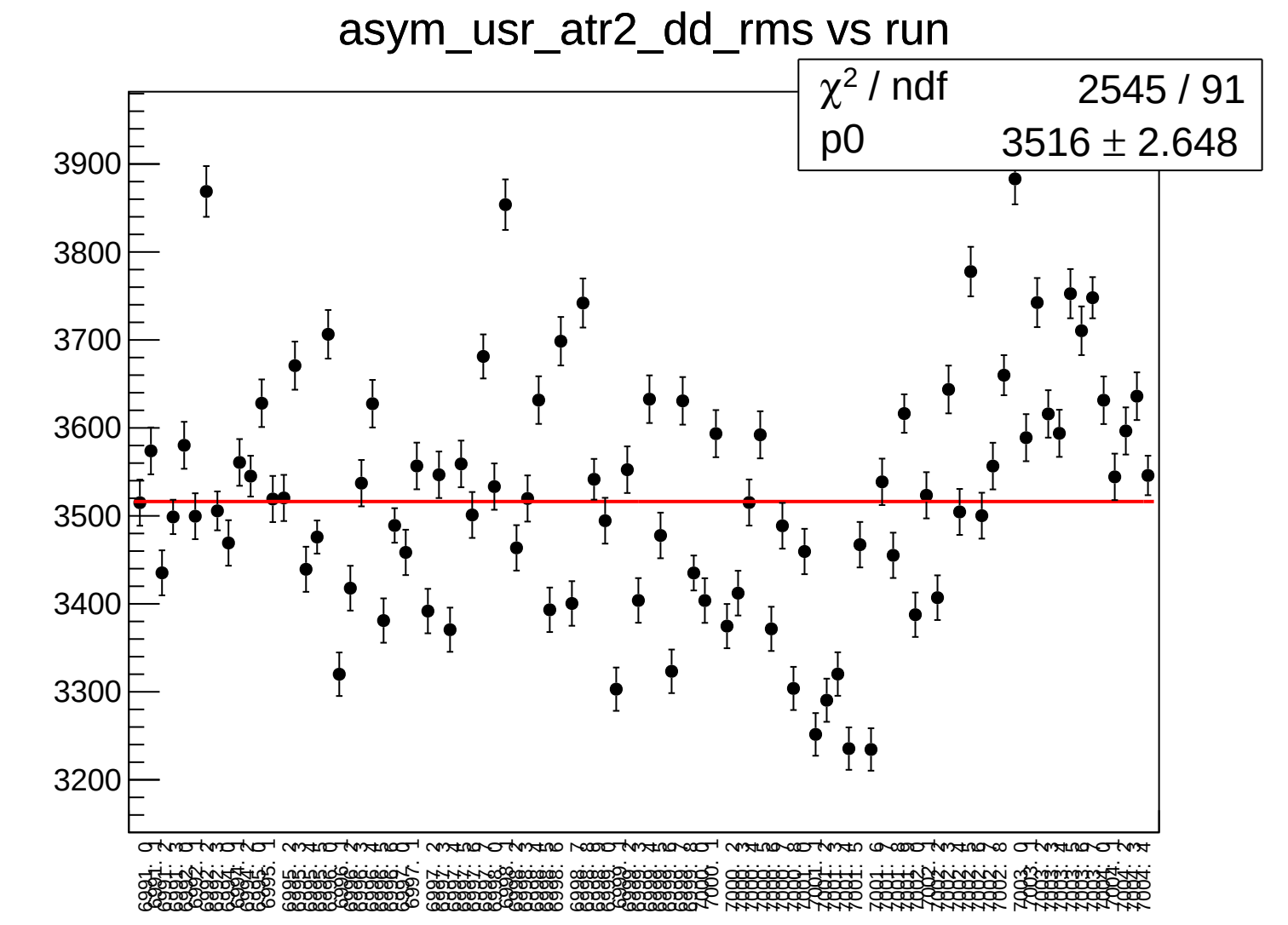

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.4 / 91
p0 2723 ± 3798
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −3992
Std Dev 0
3
2
1
0
−1
−2
−3

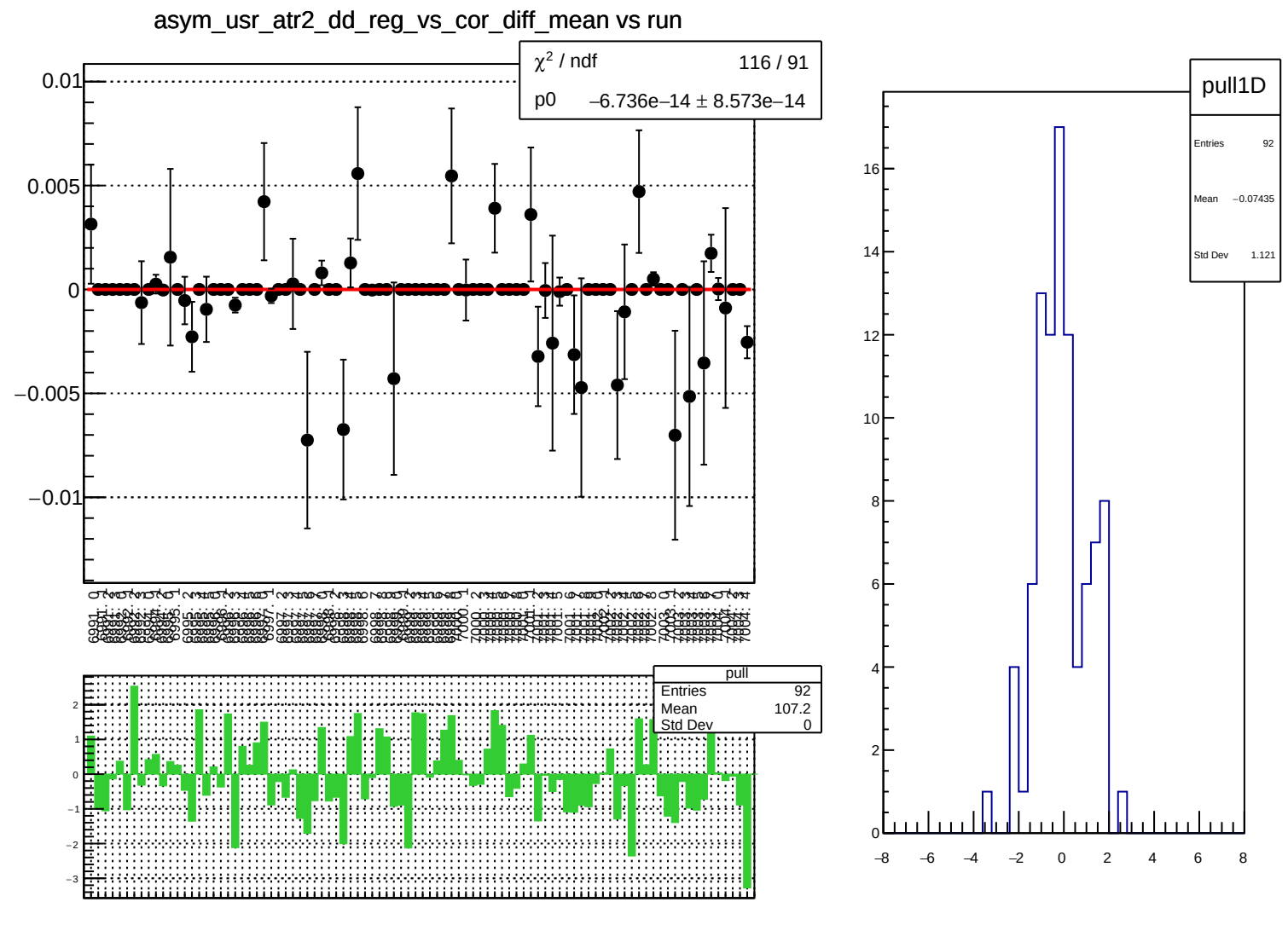

pull1D
Entries 92
Mean −0.001308
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

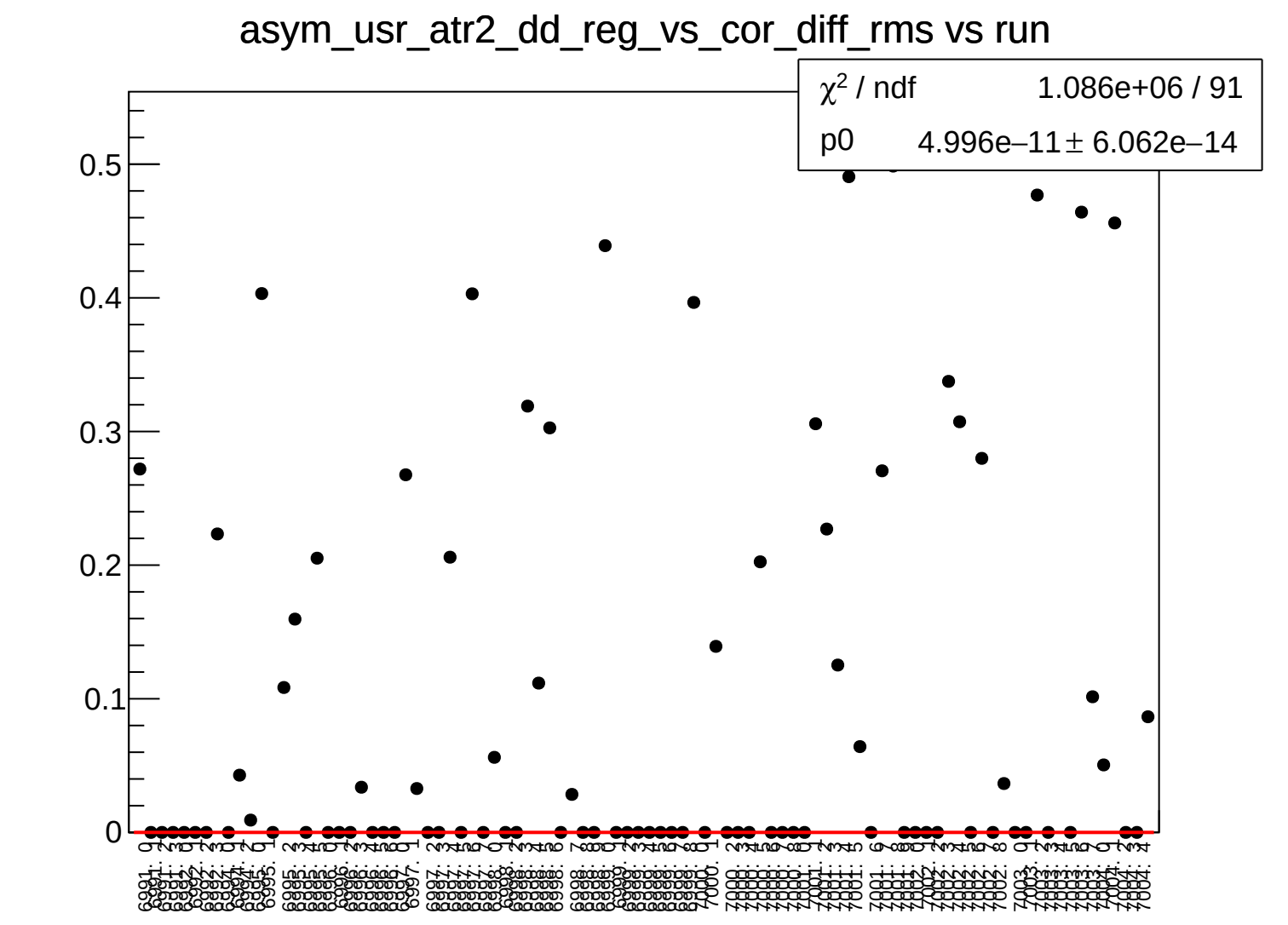

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3027 / 91
p0 3565 ± 2.686
4100
4000
3900
3800
3700
3600
3500
3400
3300
3200

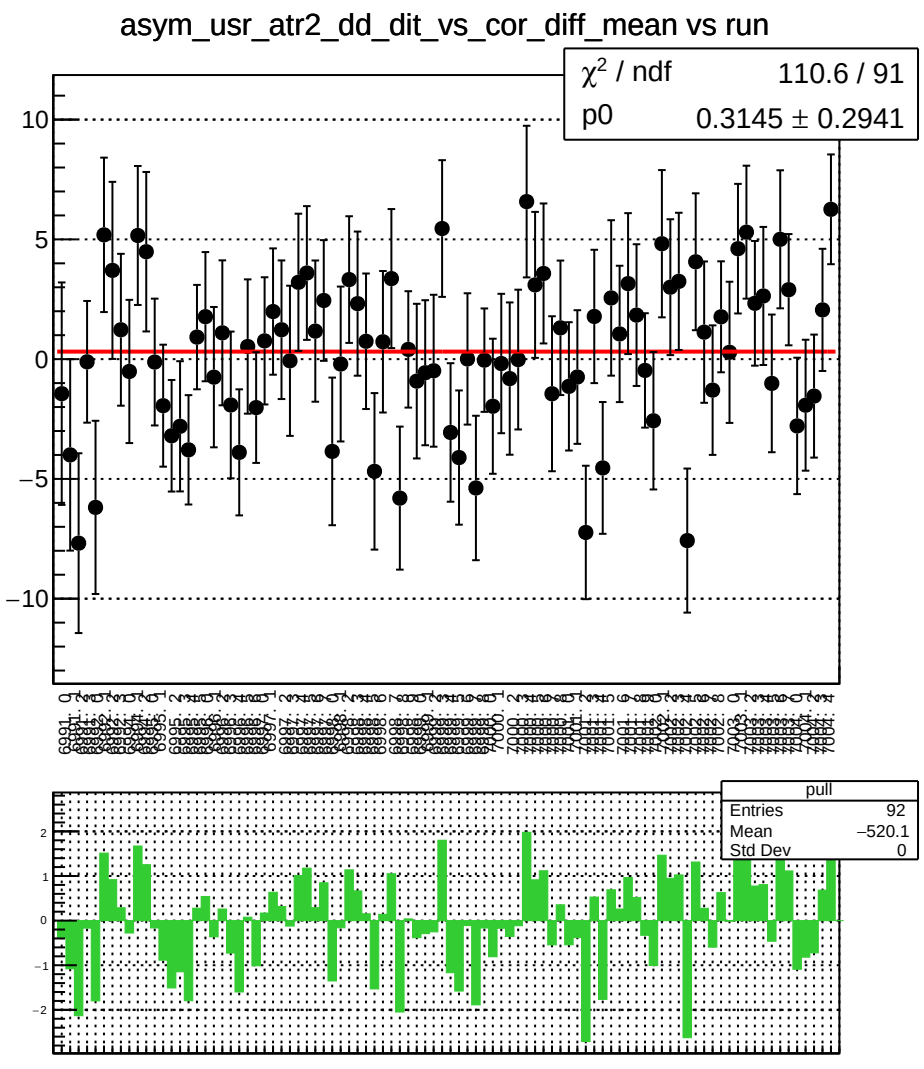

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 113 / 91
p0 −1657 ± 3746
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −2564
Std Dev 0
3
2
1
0
−1
−2
−3

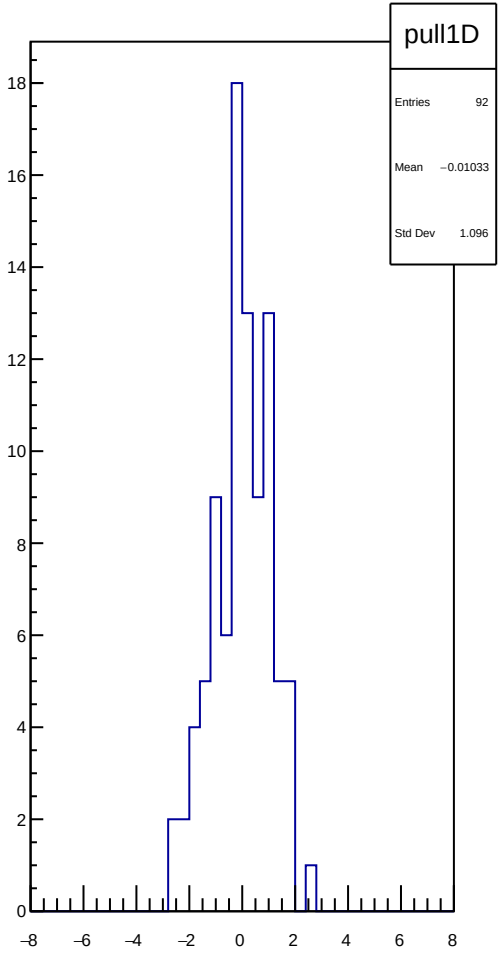

pull1D
Entries 92
Mean 0.001736
Std Dev 1.108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

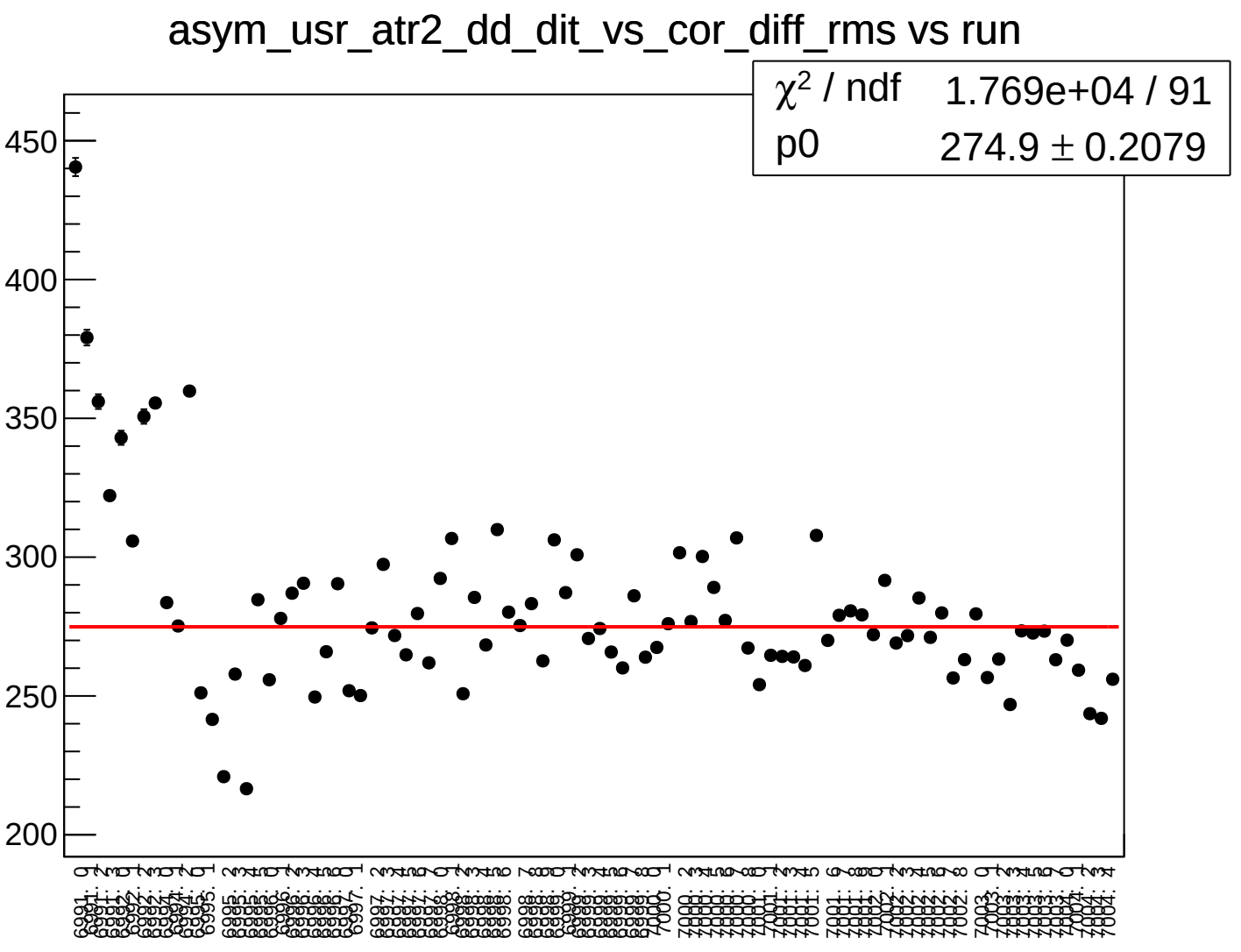

asym_usr_atr2_dd_rms vs run
χ² / ndf 2545 / 91
p0 3516 ± 2.648
3900
3800
3700
3600
3500
3400
3300
3200

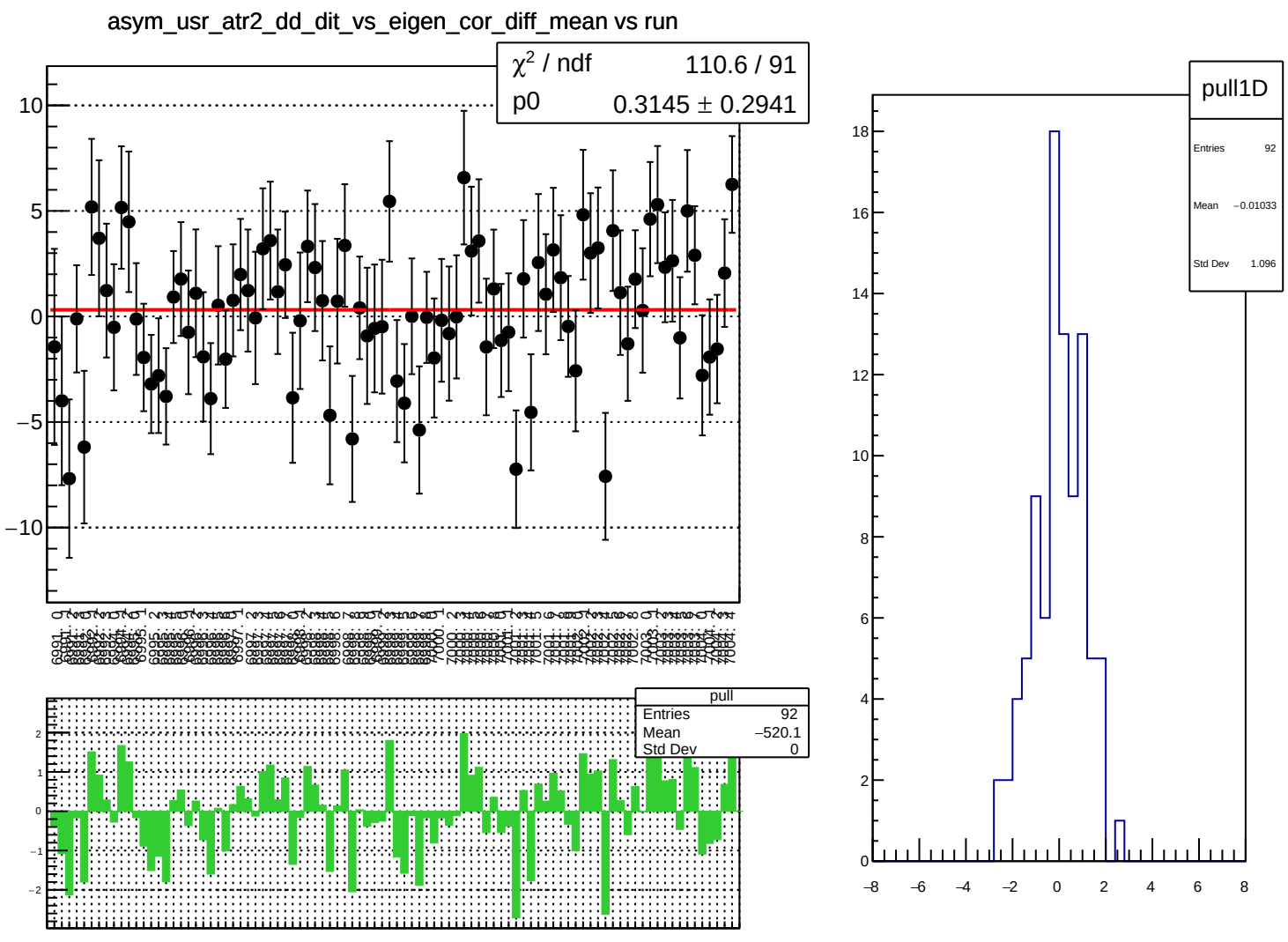

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 116 / 91
p0 −6.736e−14 ± 8.573e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean 107.2
Std Dev 0
pull1D
Entries 92
Mean −0.07435
Std Dev 1.121

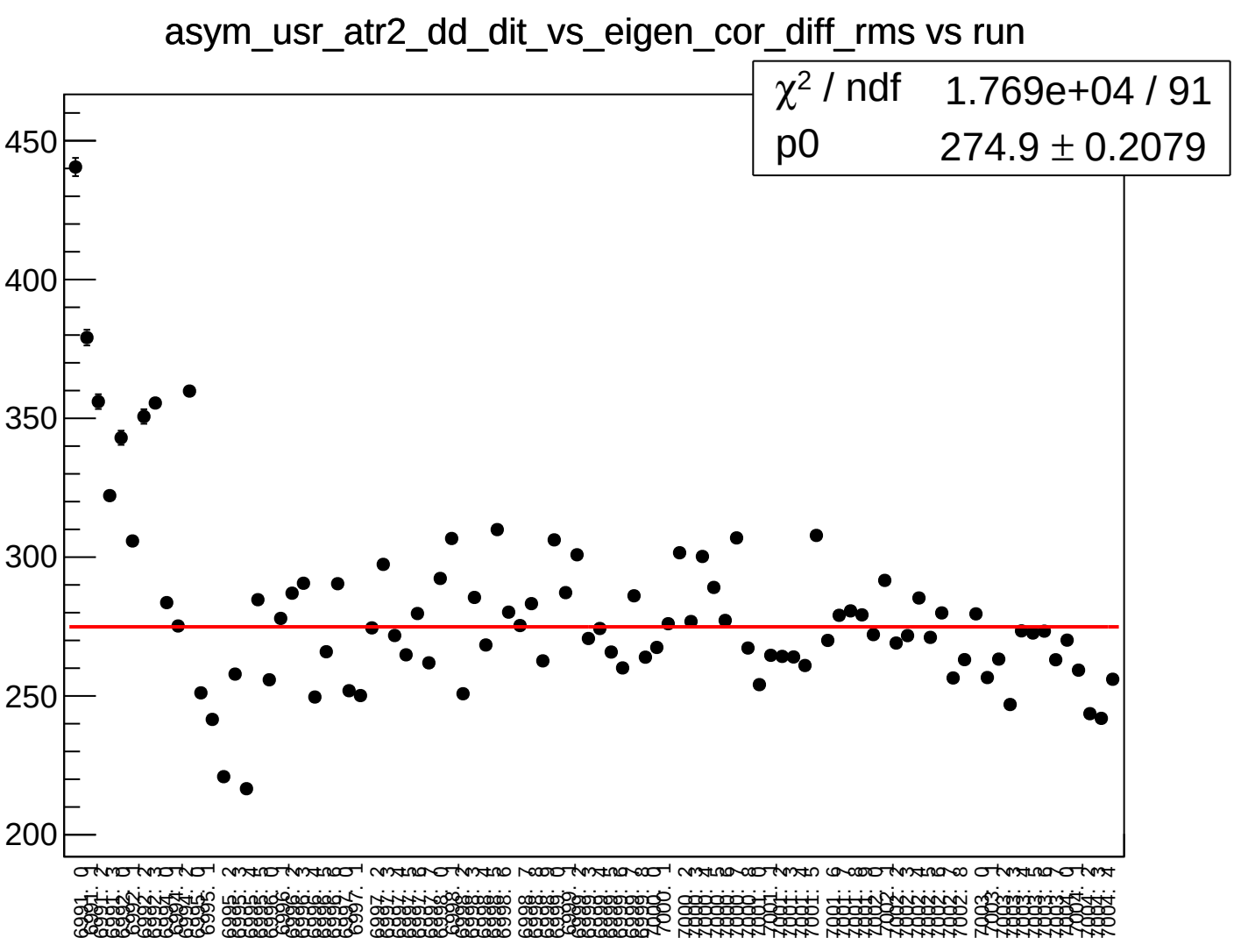

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 91
p0 4.996e−11 ± 6.062e−14
0.5
0.4
0.3
0.2
0.1
0

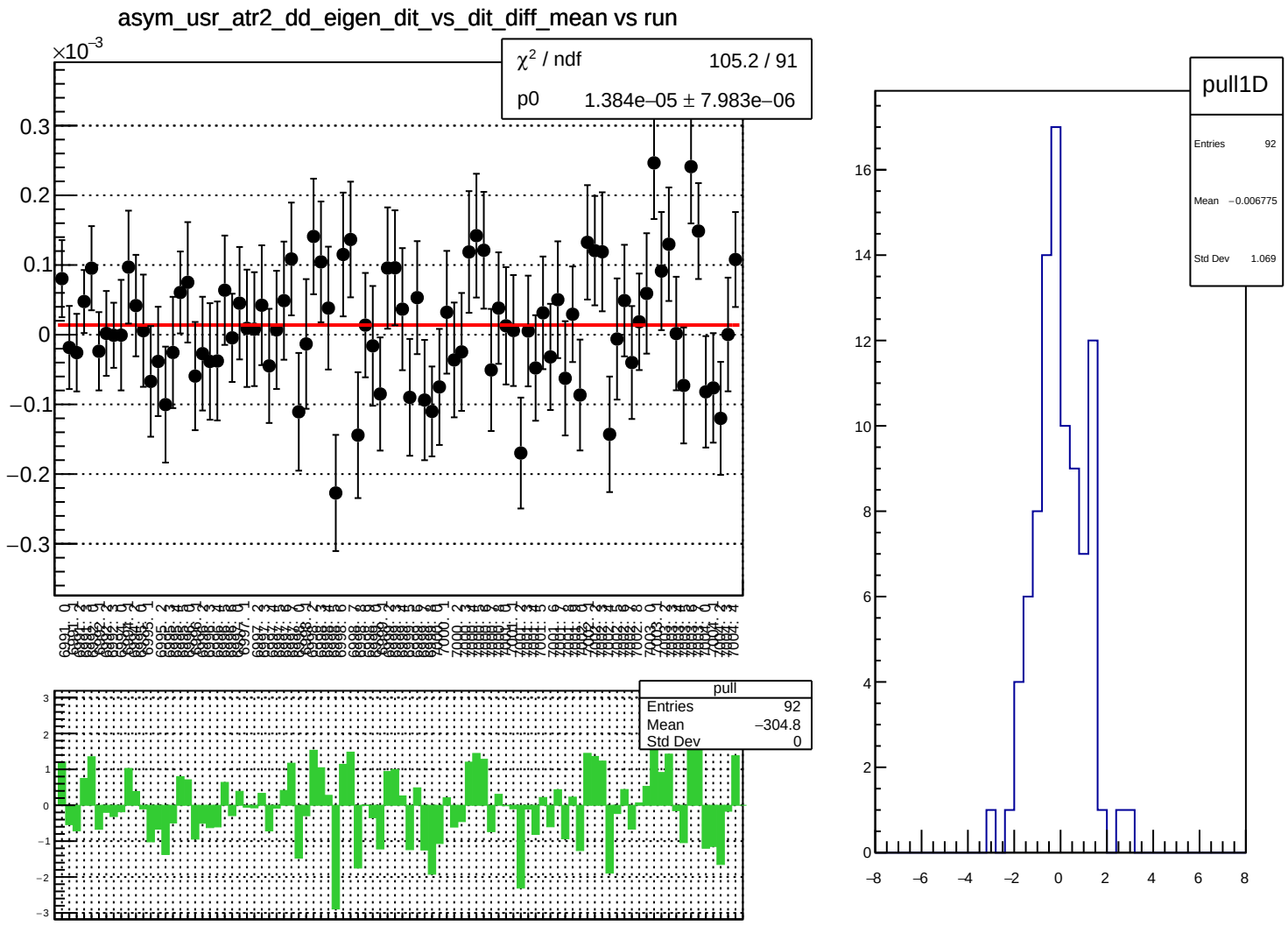

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 91
p0 0.3145 ± 0.2941
pull
Entries 92
Mean −520.1
Std Dev 0

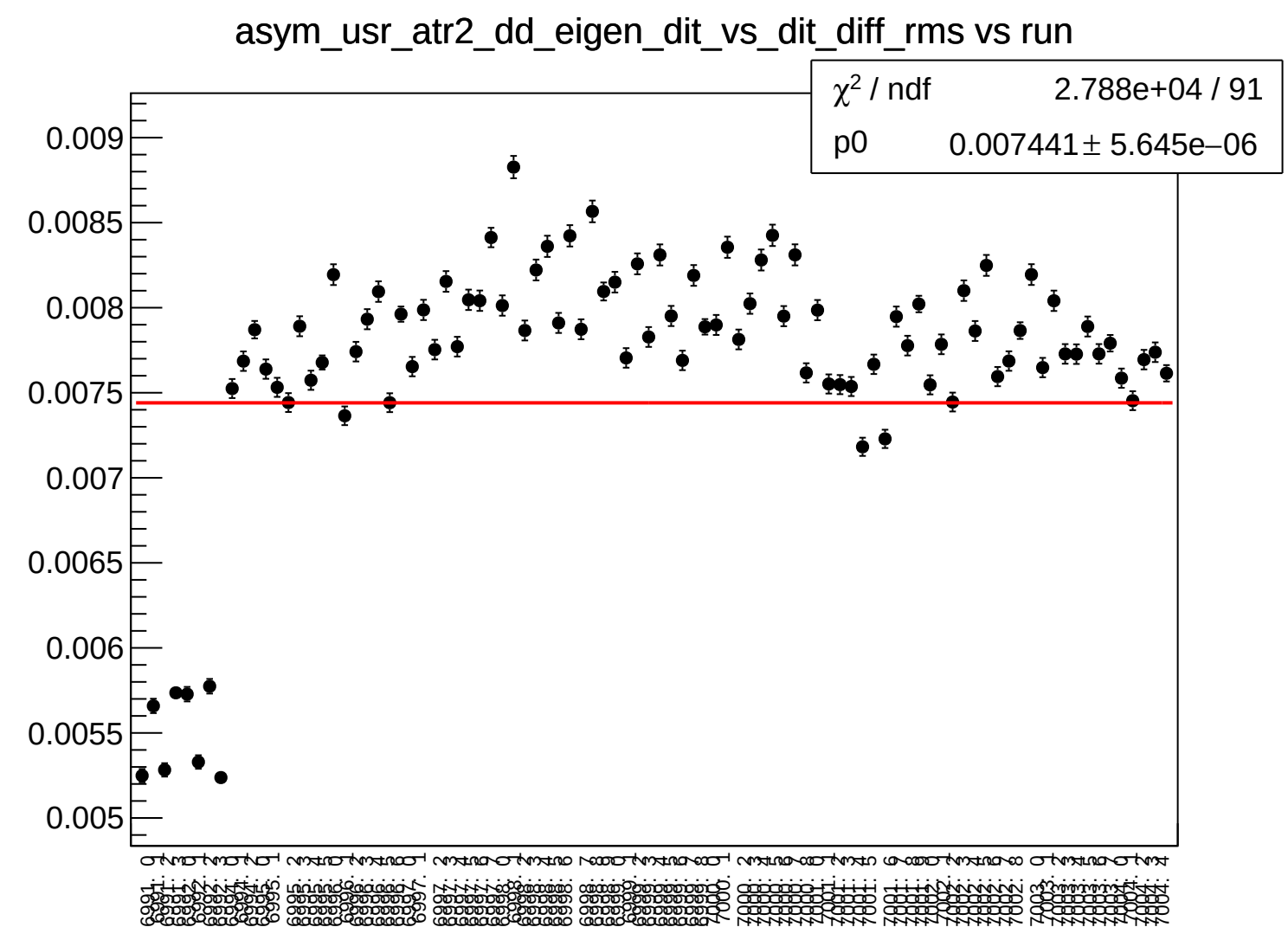

pull1D
Entries 92
Mean −0.01033
Std Dev 1.096

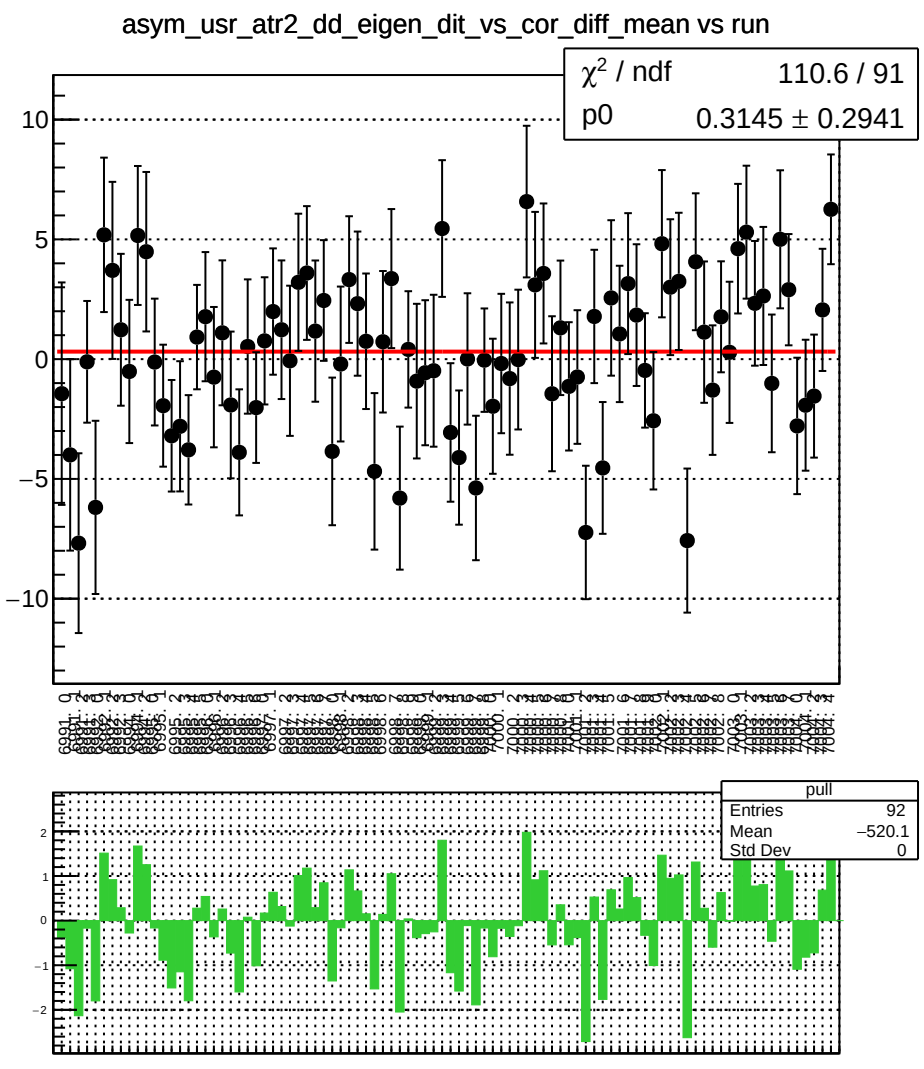

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.769e+04 / 91
p0 274.9 ± 0.2079
450
400
350
300
250
200

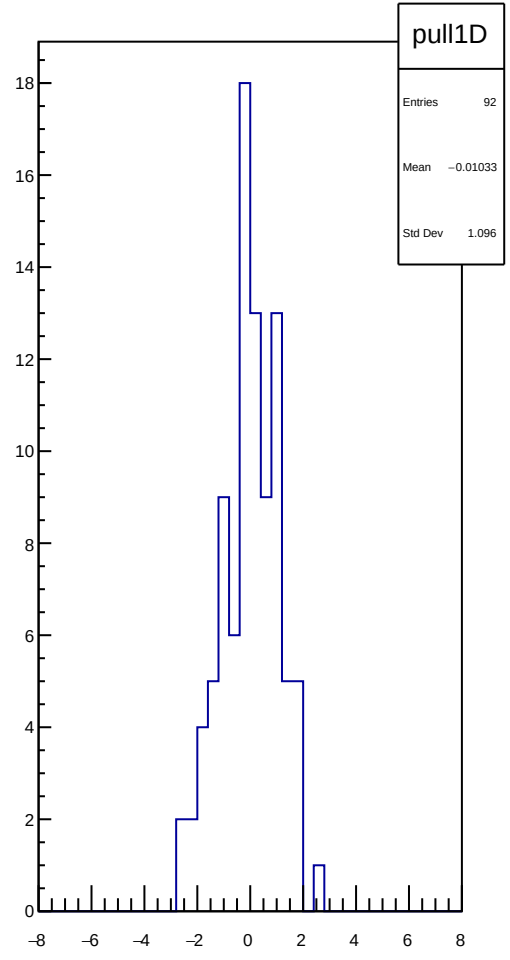

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.6 / 91
p0 0.3145 ± 0.2941
10
5
0
−5
−10
pull
Entries 92
Mean −520.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01033
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

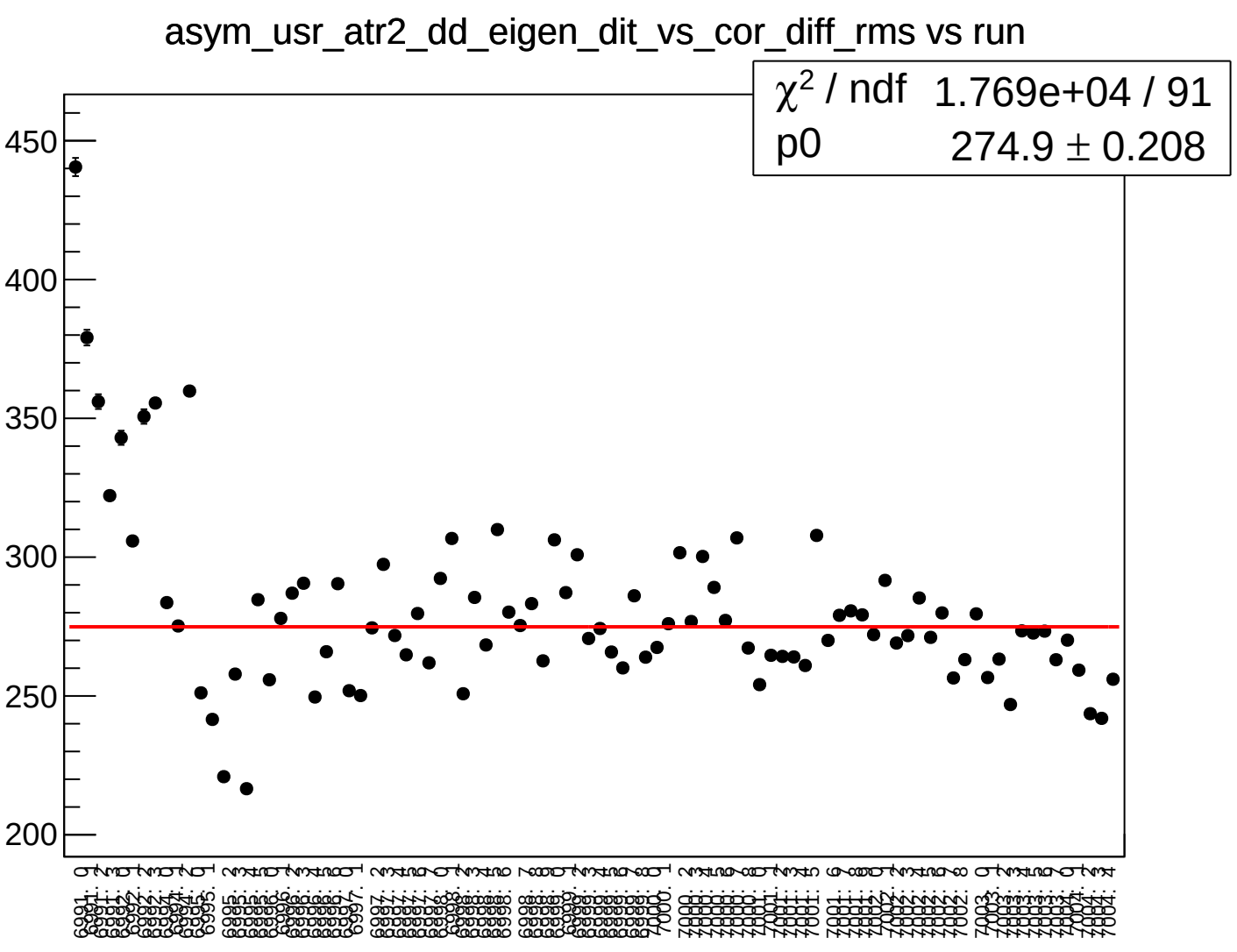

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.769e+04 / 91
p0 274.9 ± 0.2079
450
400
350
300
250
200

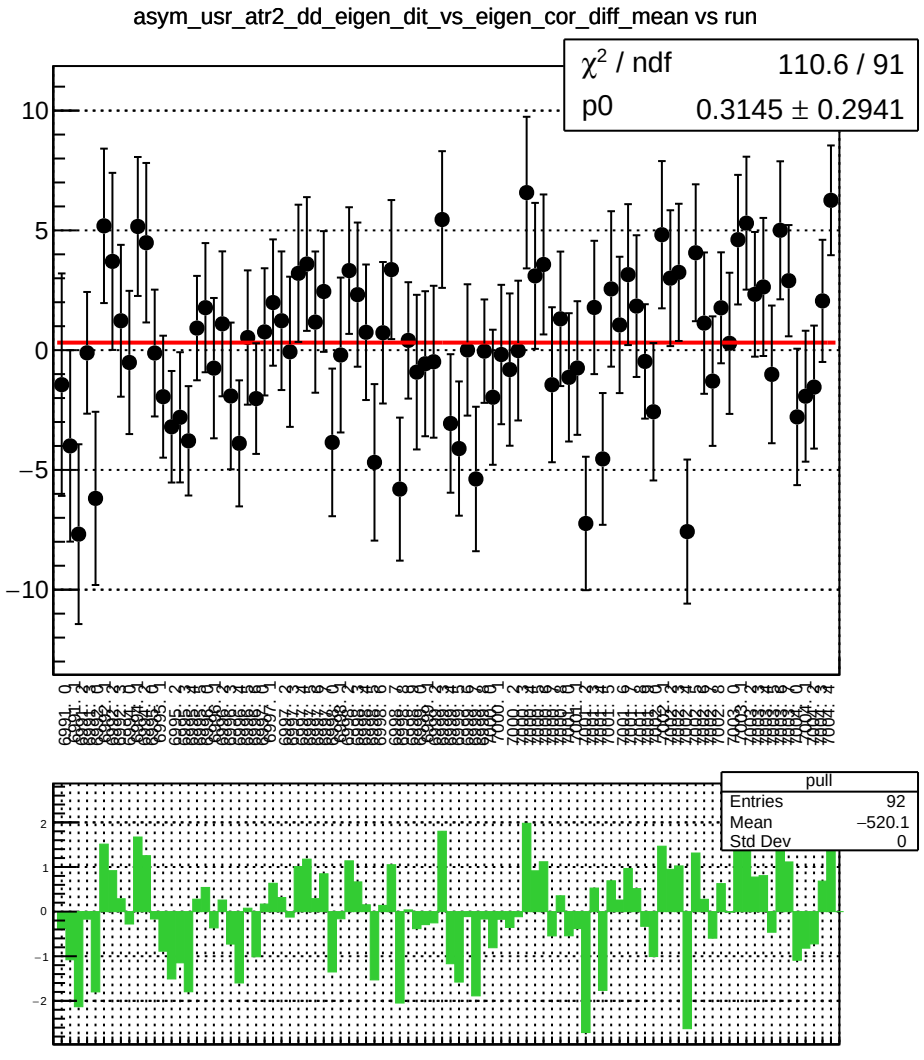

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.2 / 91
p0 1.384e−05 ± 7.983e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 92
Mean −304.8
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.006775
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

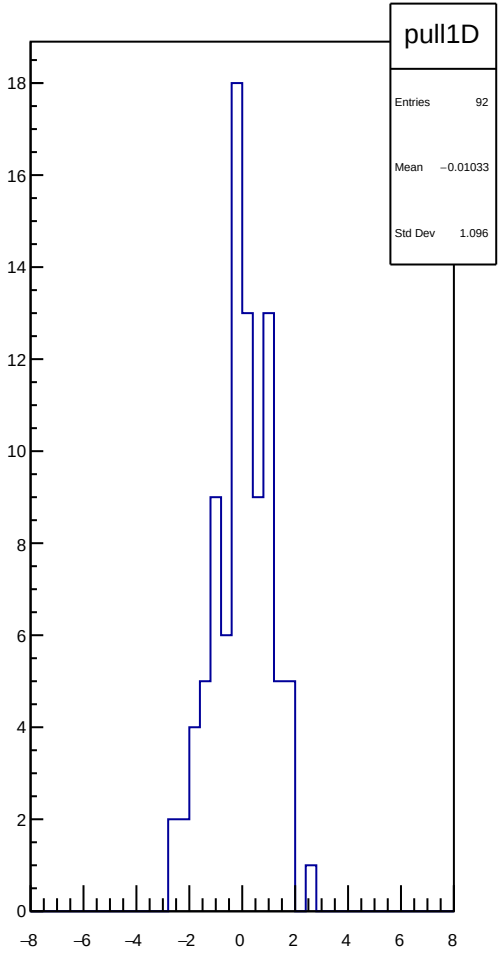

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.788e+04 / 91
p0 0.007441 ± 5.645e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

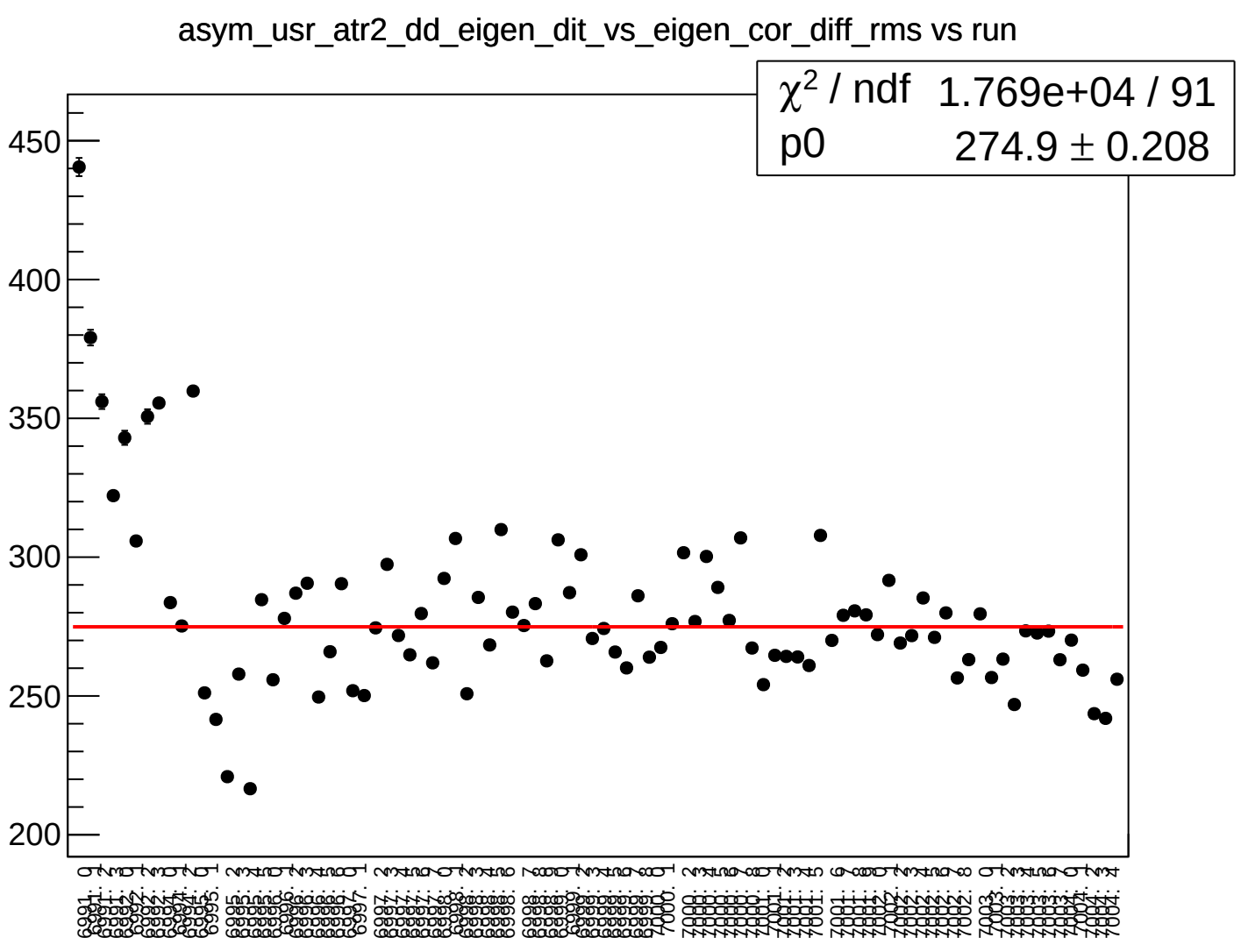

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 91
p0 0.3145 ± 0.2941
pull
Entries 92
Mean −520.1
Std Dev 0

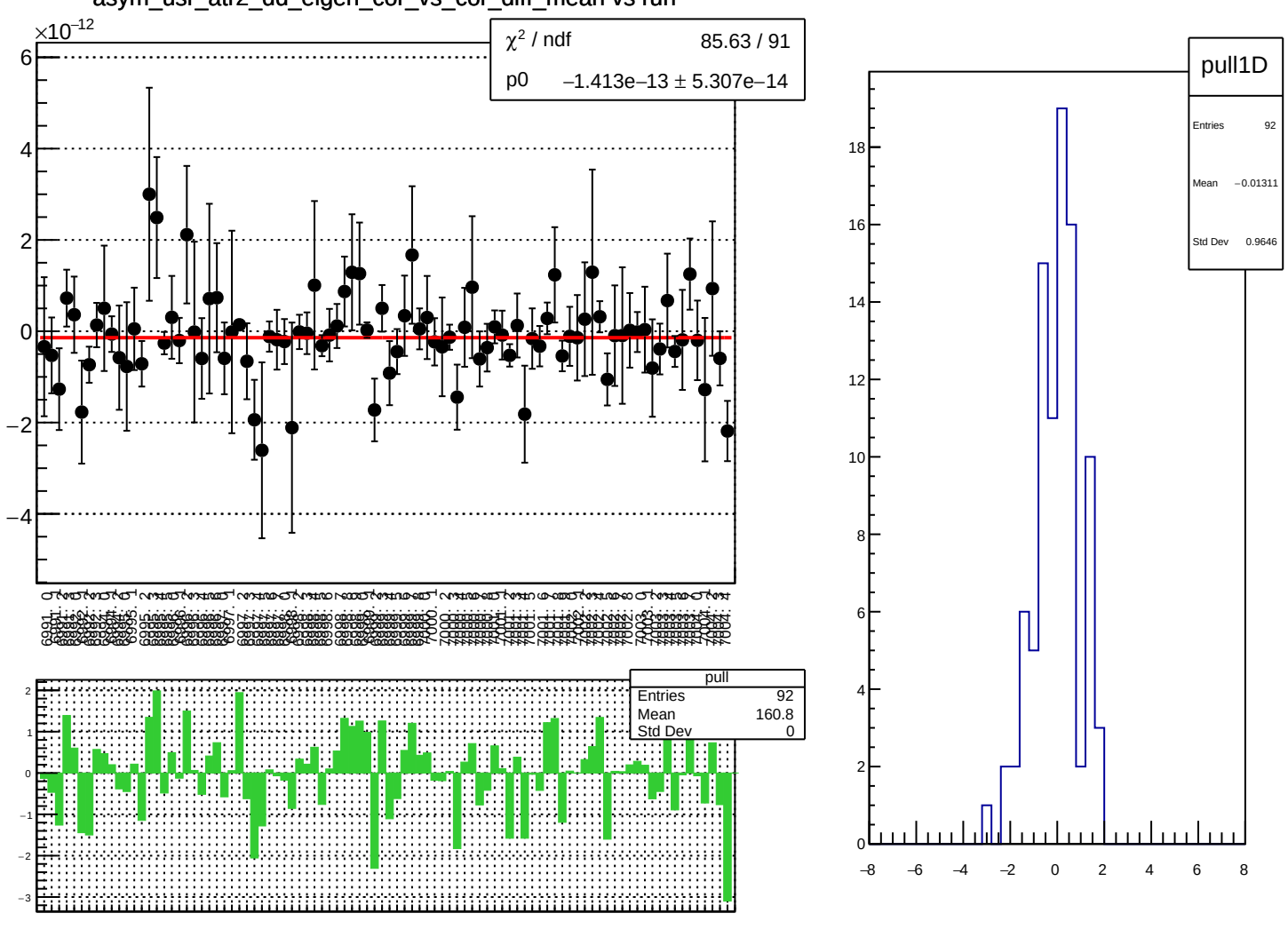

pull1D
Entries 92
Mean −0.01033
Std Dev 1.096

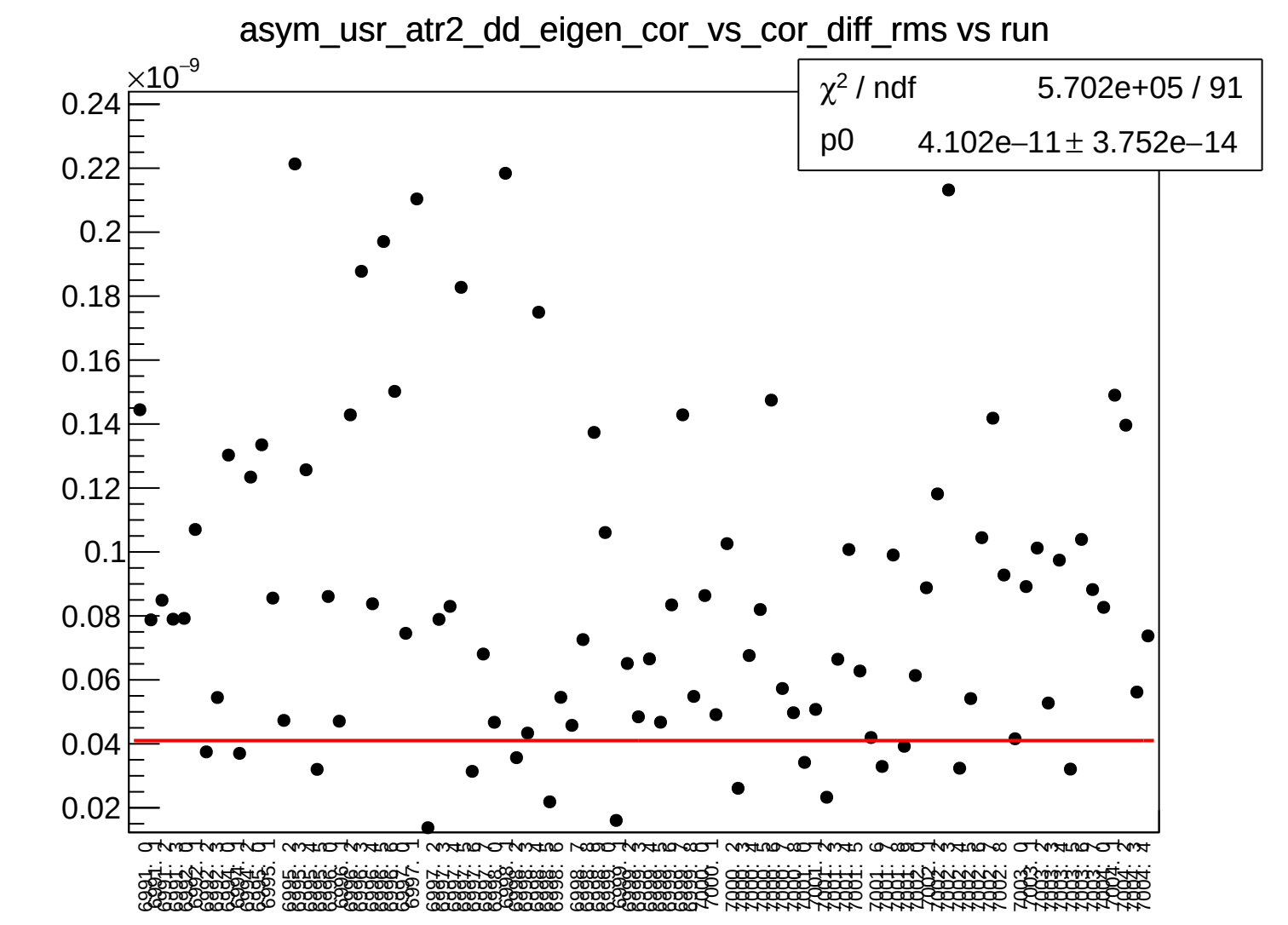

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.769e+04 / 91
p0 274.9 ± 0.208
450
400
350
300
250
200

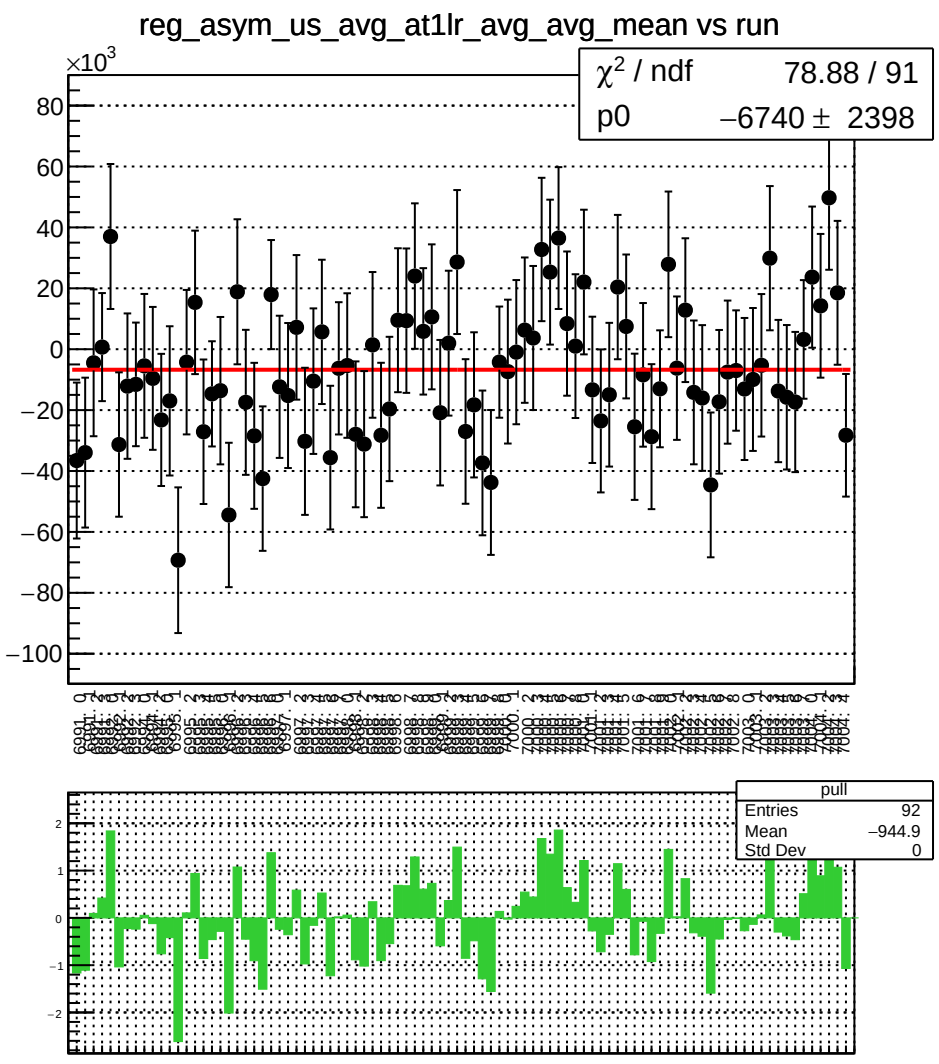

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.6 / 91
p0 0.3145 ± 0.2941
pull
Entries 92
Mean −520.1
Std Dev 0

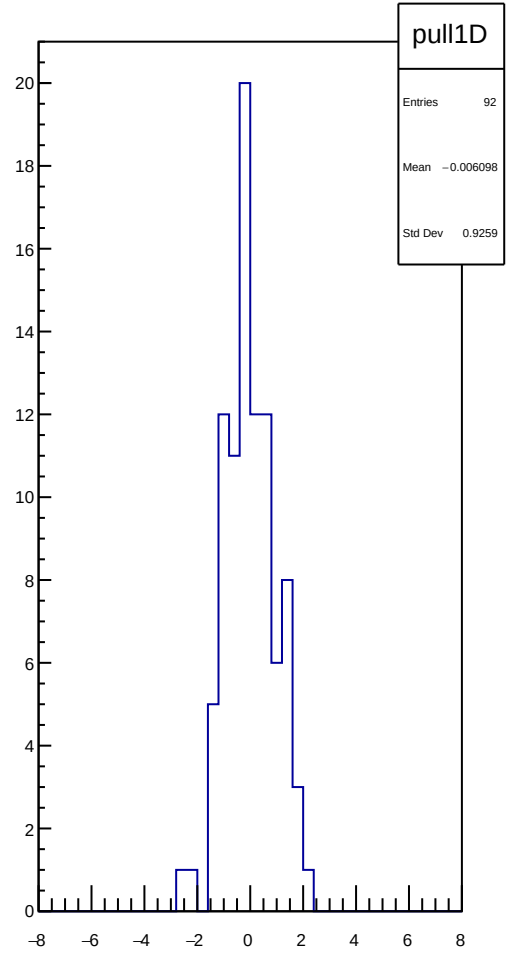

pull1D
Entries 92
Mean −0.01033
Std Dev 1.096

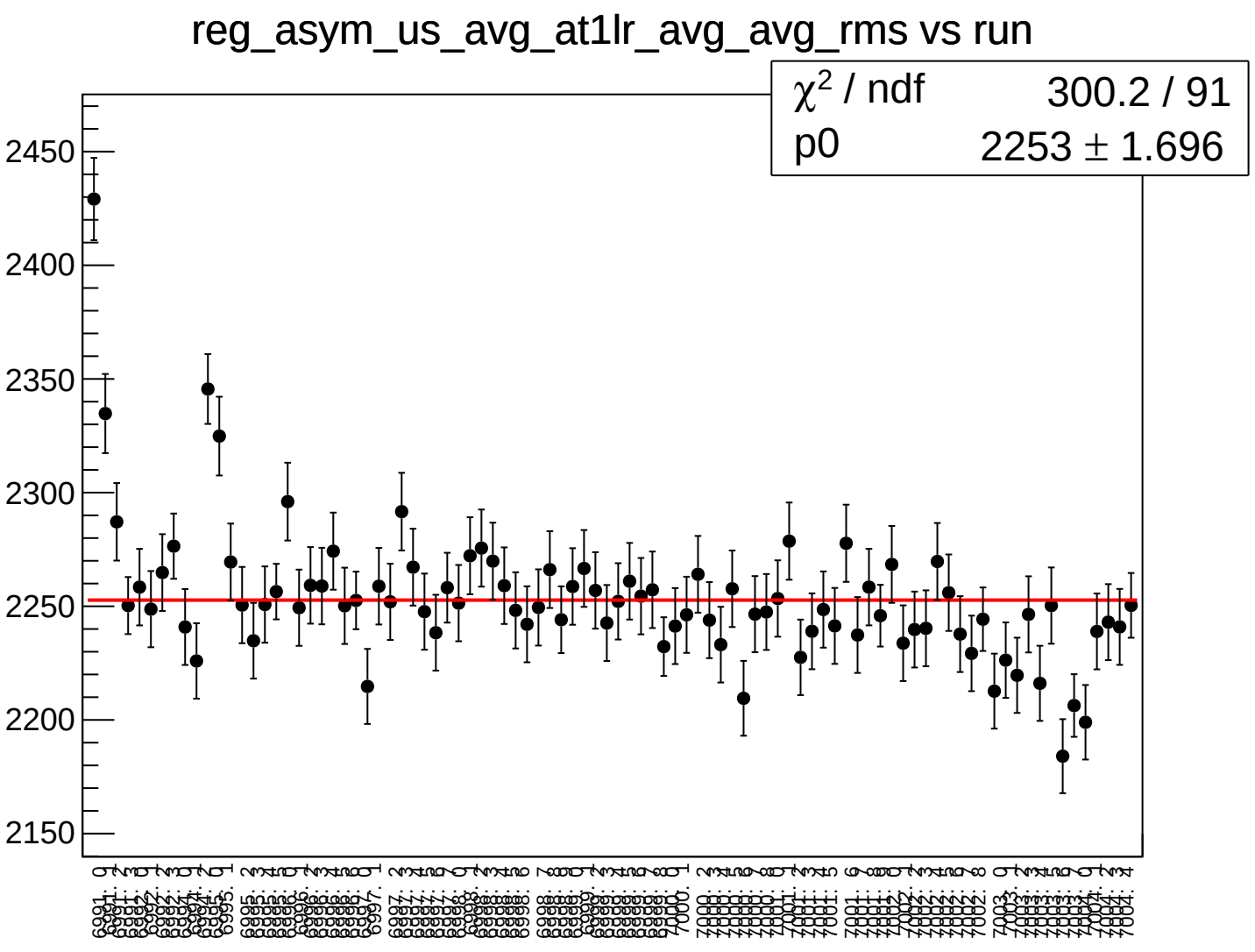

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.769e+04 / 91
p0 274.9 ± 0.208
450
400
350
300
250
200

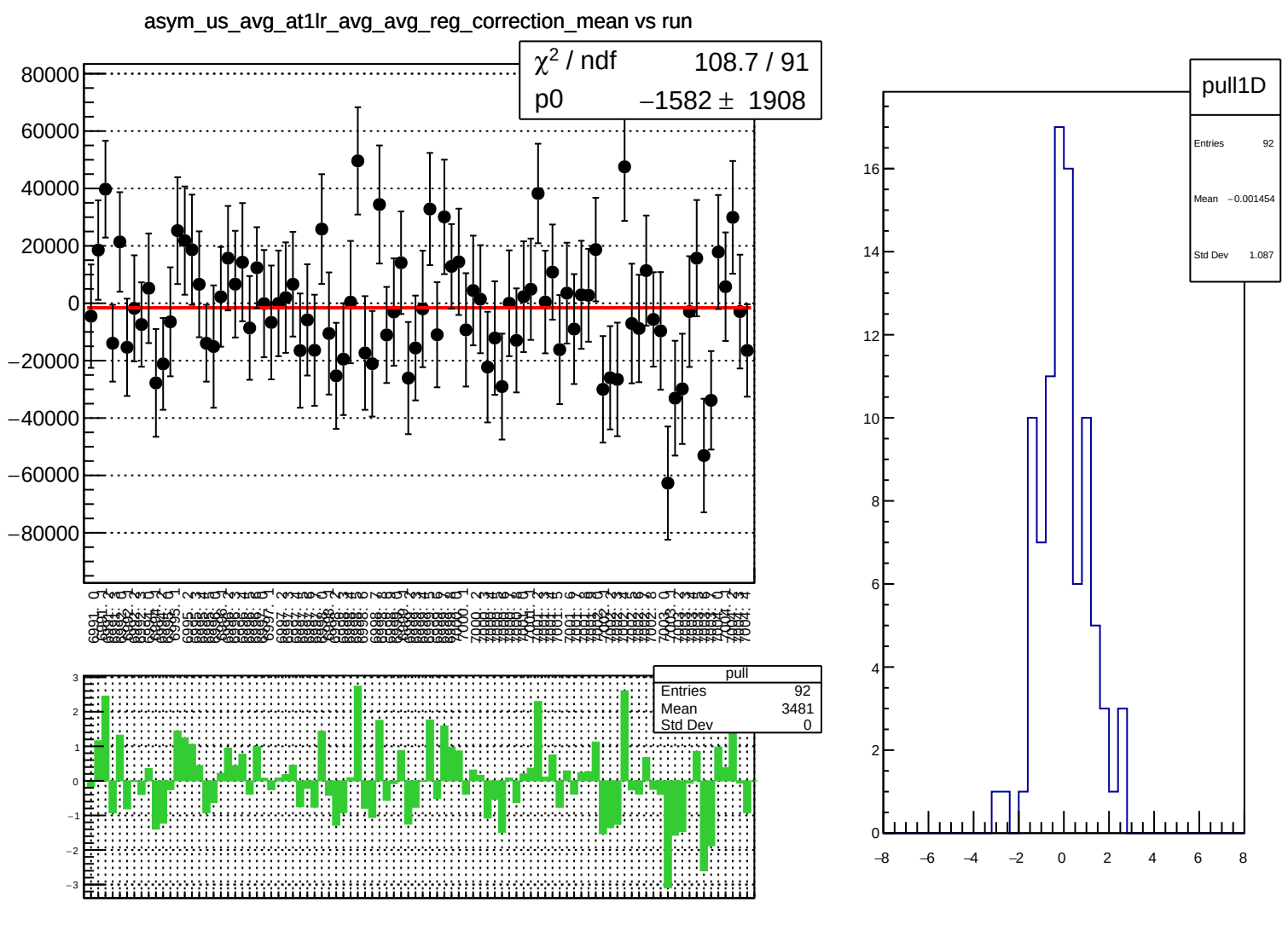

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.63 / 91
p0 −1.413e−13 ± 5.307e−14
pull
Entries 92
Mean 160.8
Std Dev 0
pull1D
Entries 92
Mean −0.01311
Std Dev 0.9646

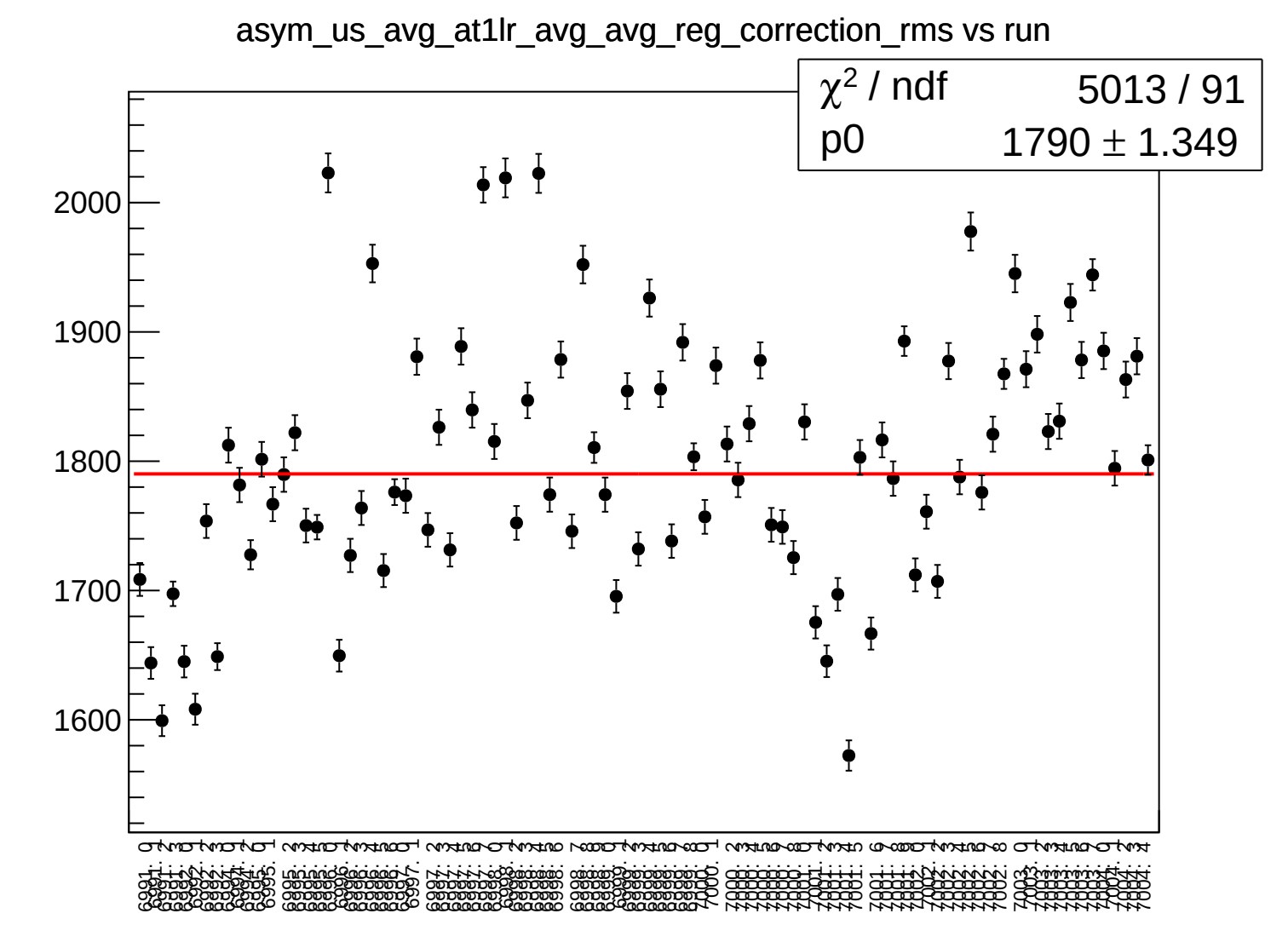

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.702e+05 / 91
p0 4.102e−11 ± 3.752e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

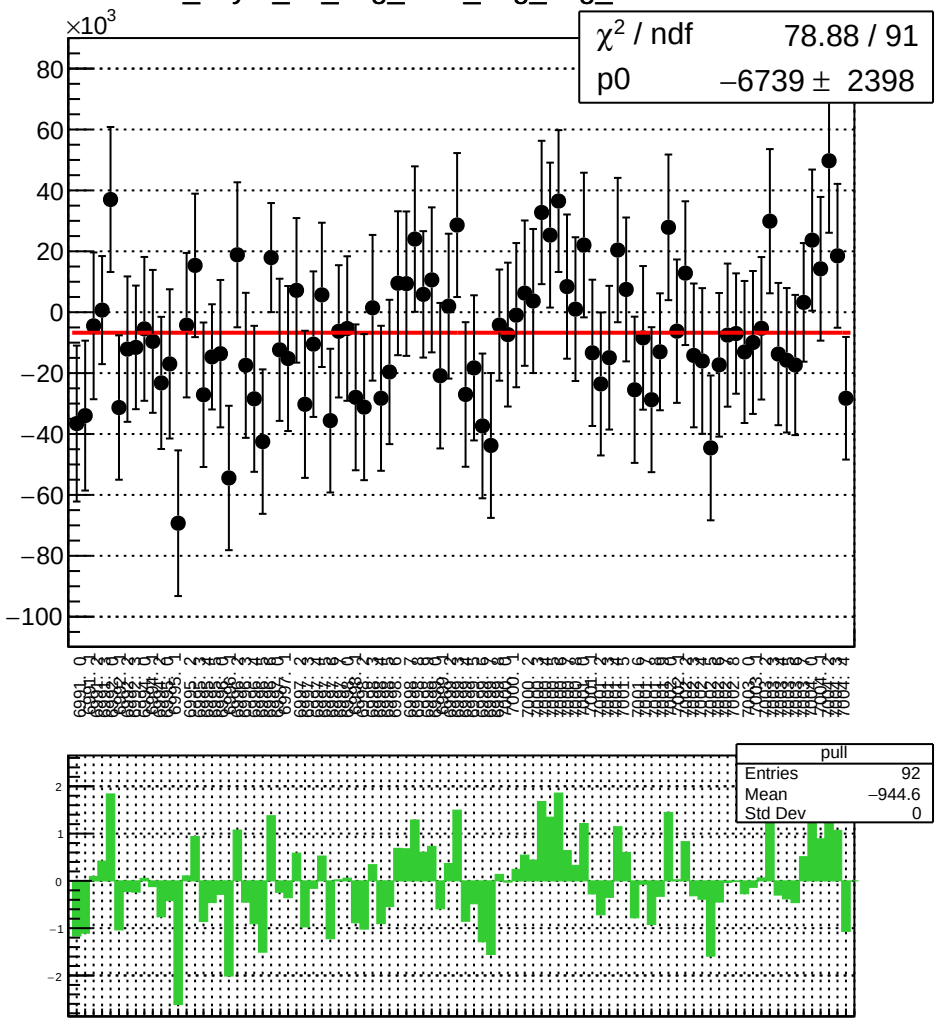

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 78.88 / 91
p0 −6740 ± 2398
pull
Entries 92
Mean −944.9
Std Dev 0

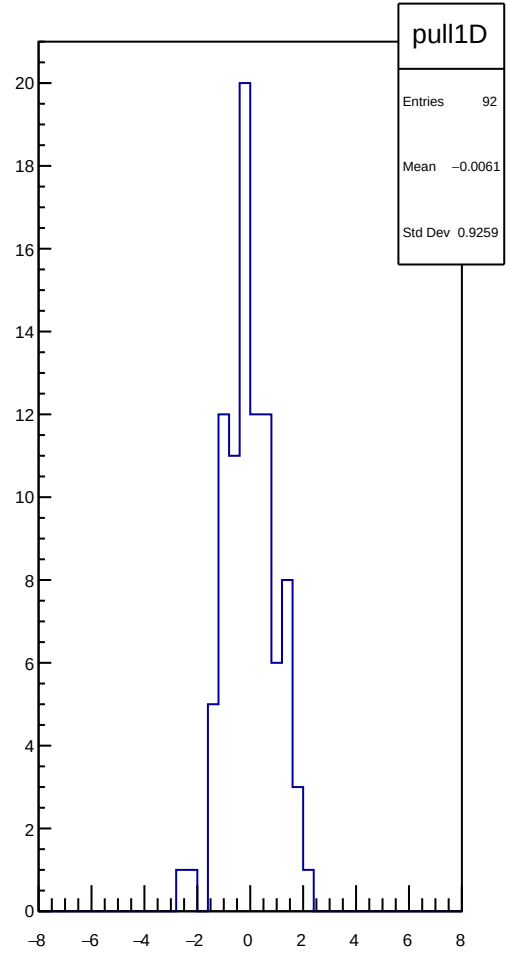

pull1D
Entries 92
Mean −0.006098
Std Dev 0.9259

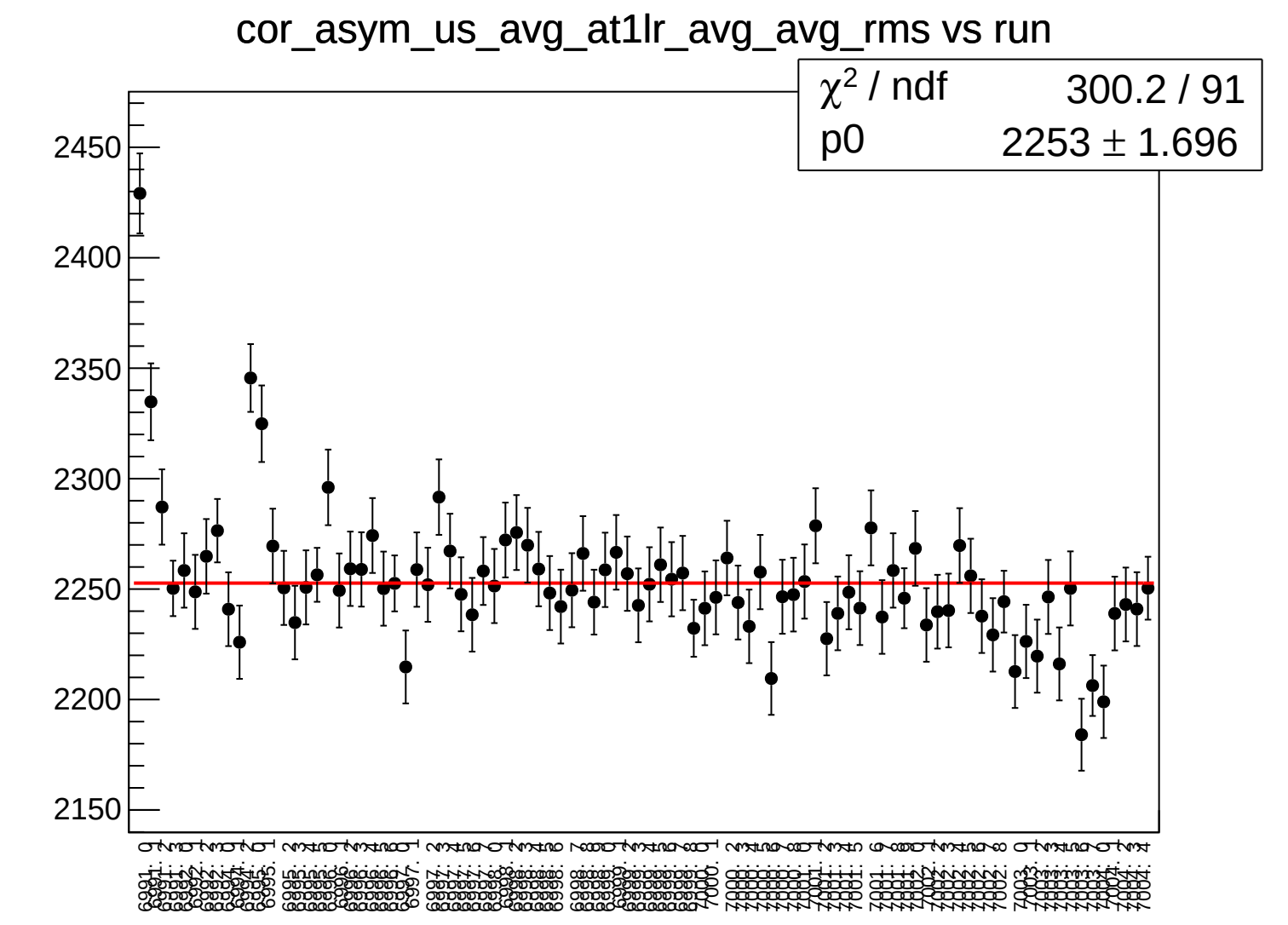

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 300.2 / 91
p0 2253 ± 1.696
2450
2400
2350
2300
2250
2200
2150

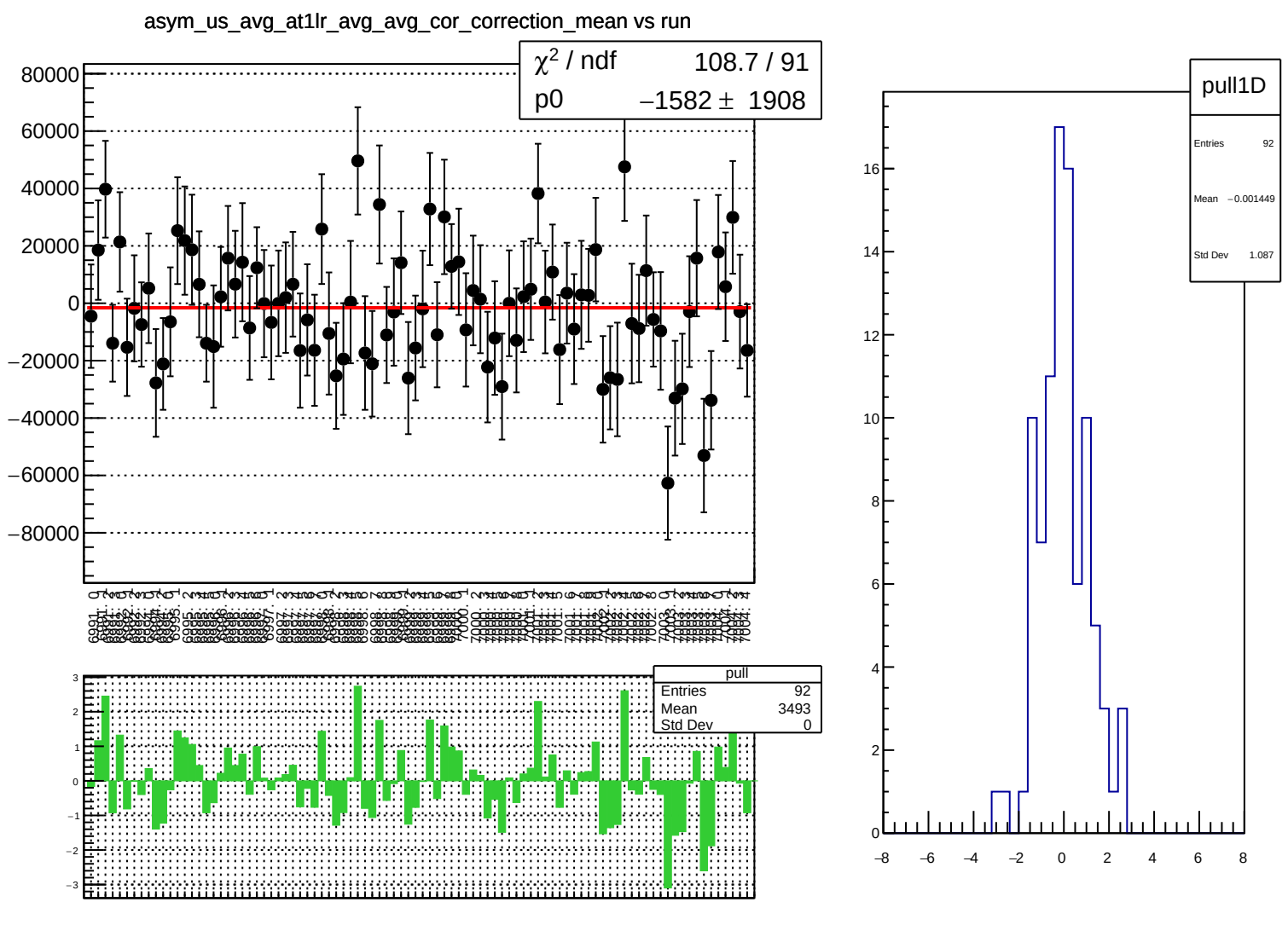

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 108.7 / 91
p0 −1582 ± 1908
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 3481
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.001454
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

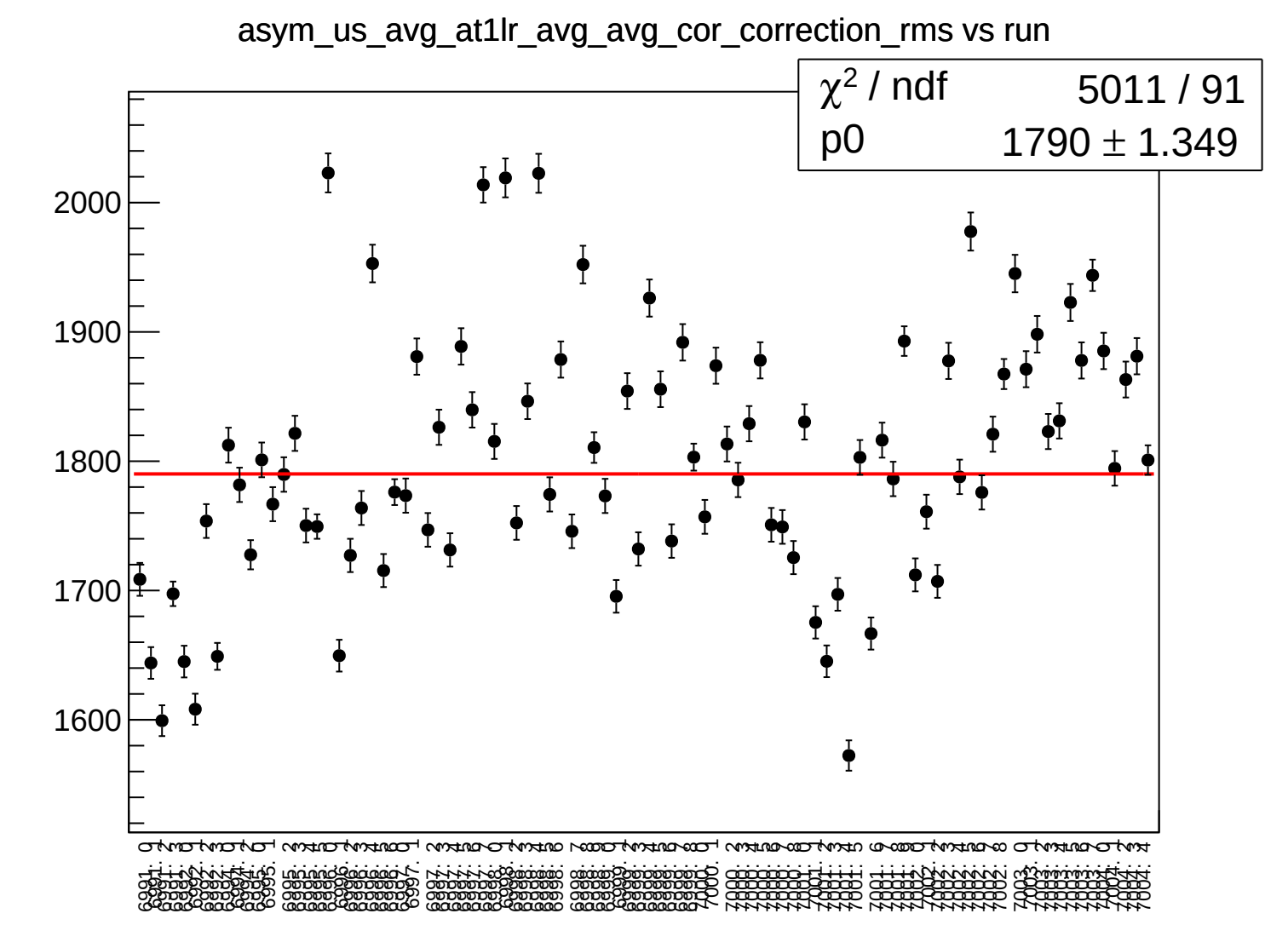

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 5013 / 91
p0 1790 ± 1.349
2000
1900
1800
1700
1600

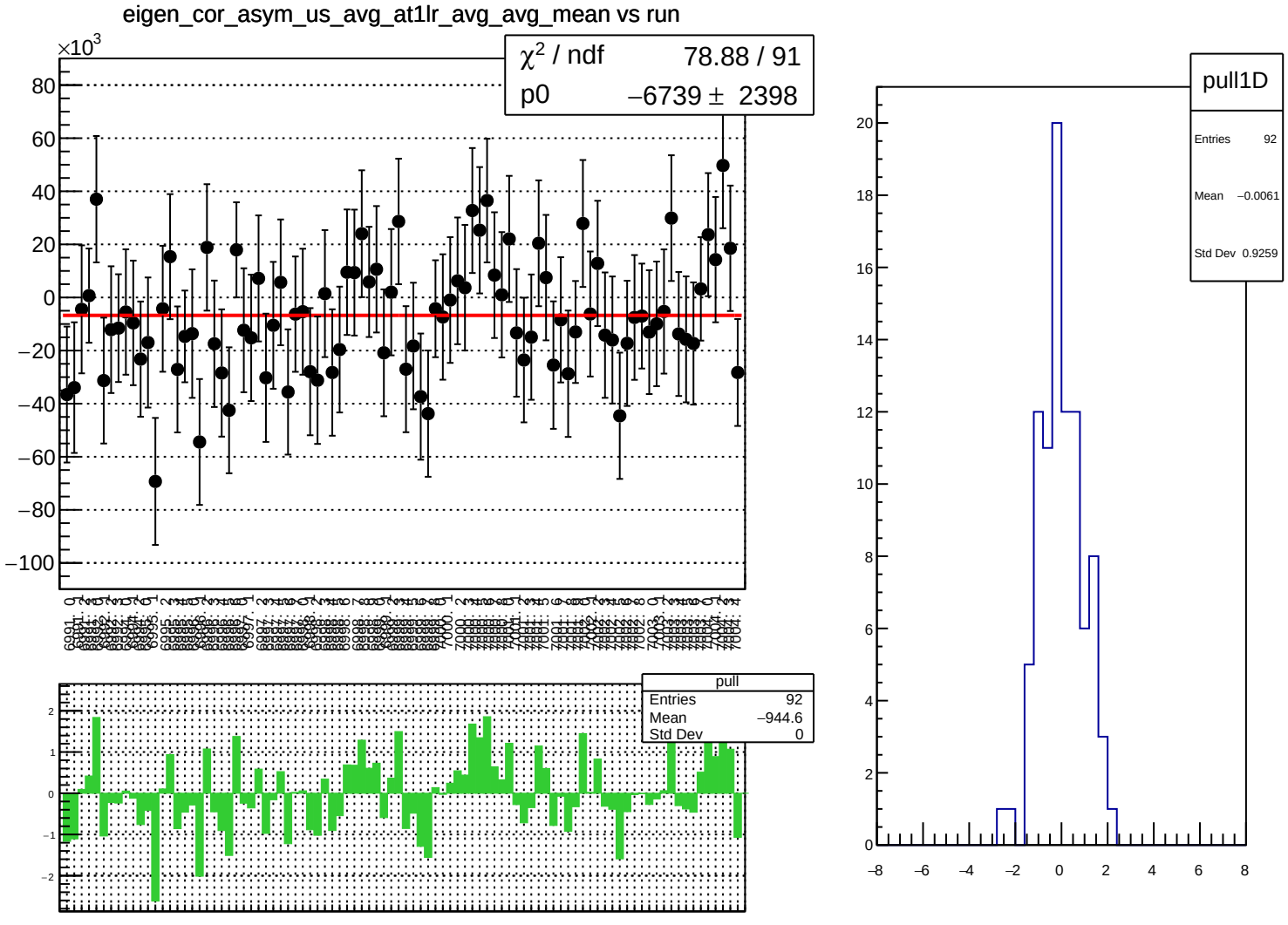

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 78.88 / 91
p0 −6739 ± 2398
pull
Entries 92
Mean −944.6
Std Dev 0

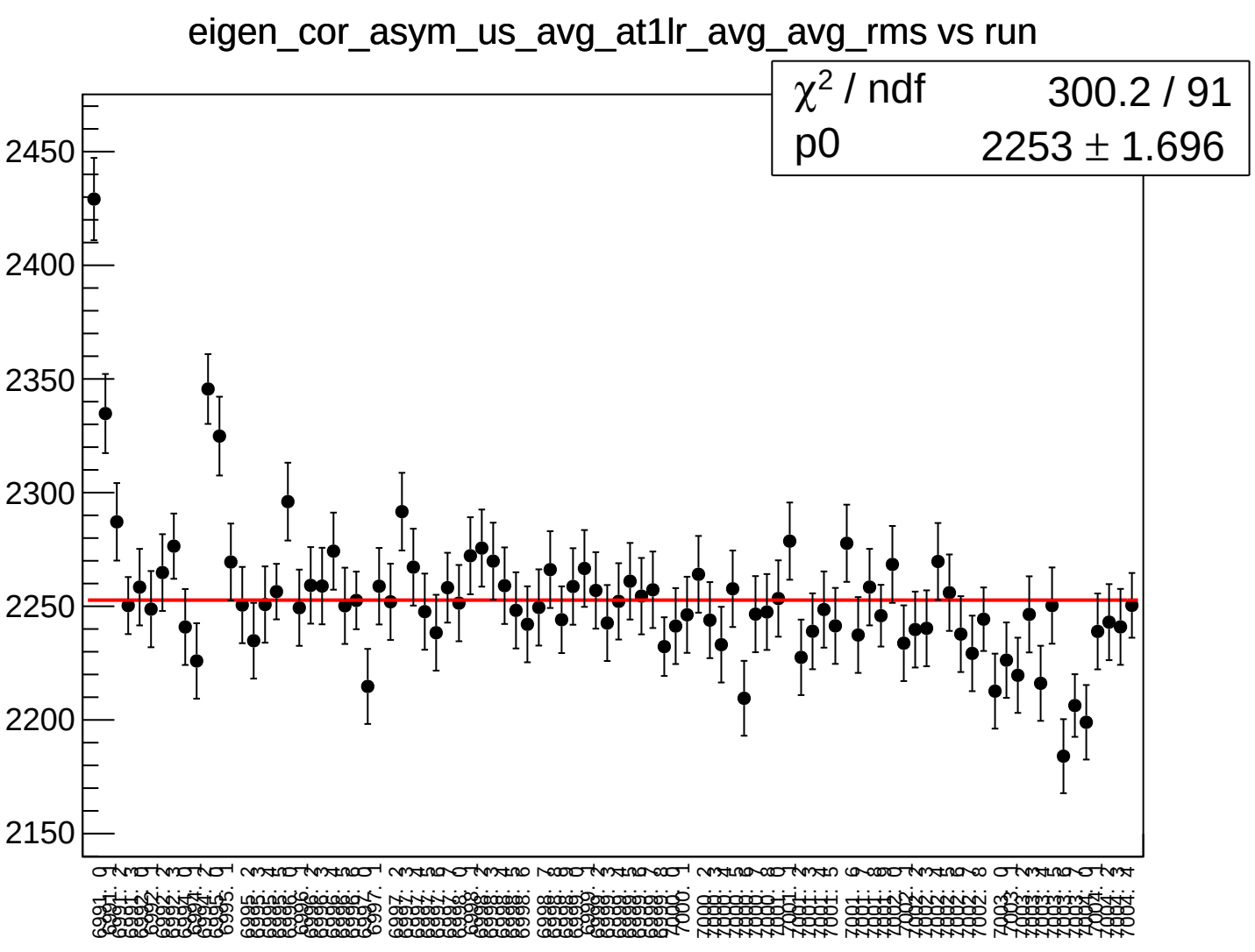

pull1D
Entries 92
Mean −0.0061
Std Dev 0.9259

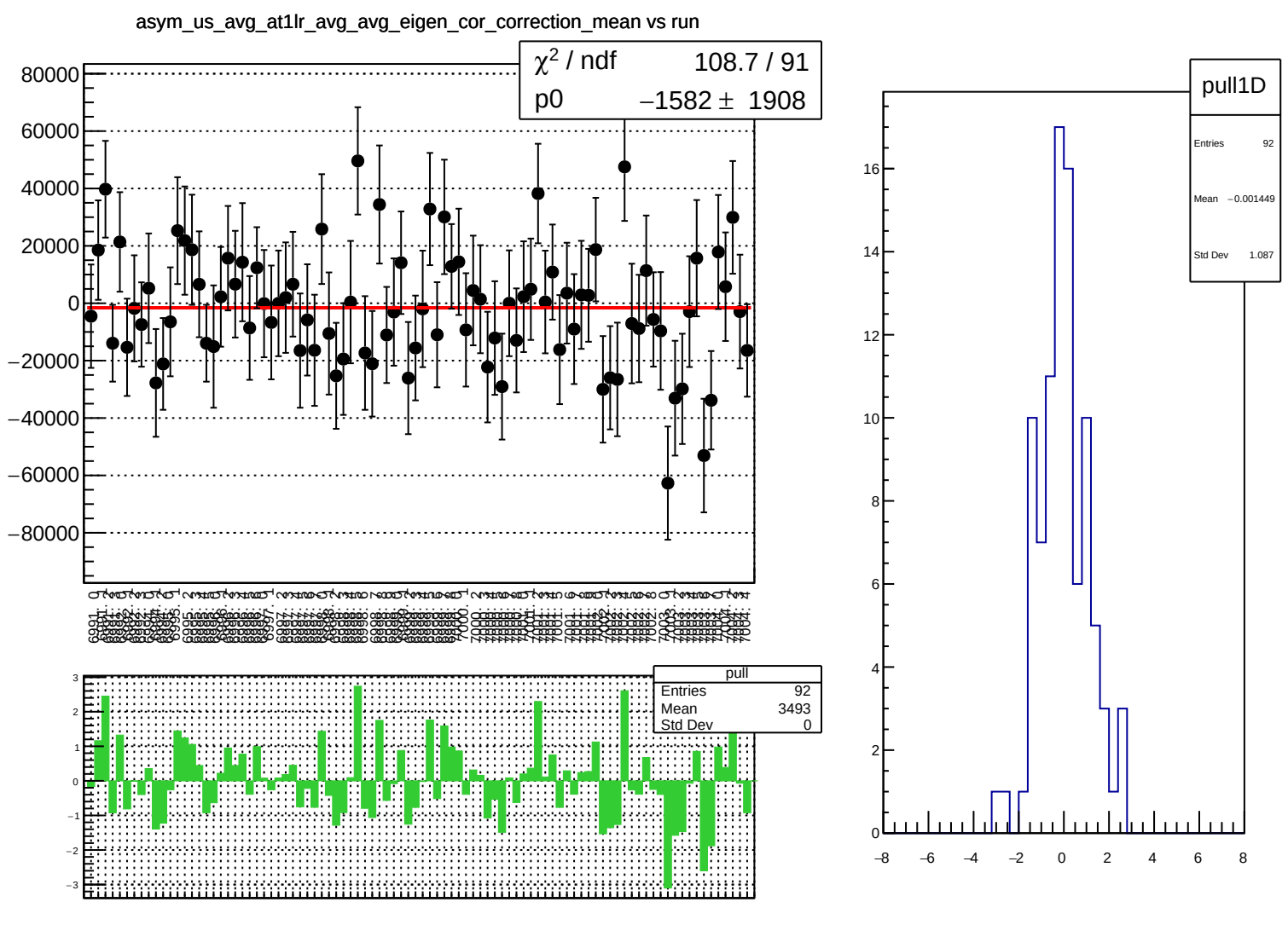

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 300.2 / 91
p0 2253 ± 1.696
2450
2400
2350
2300
2250
2200
2150

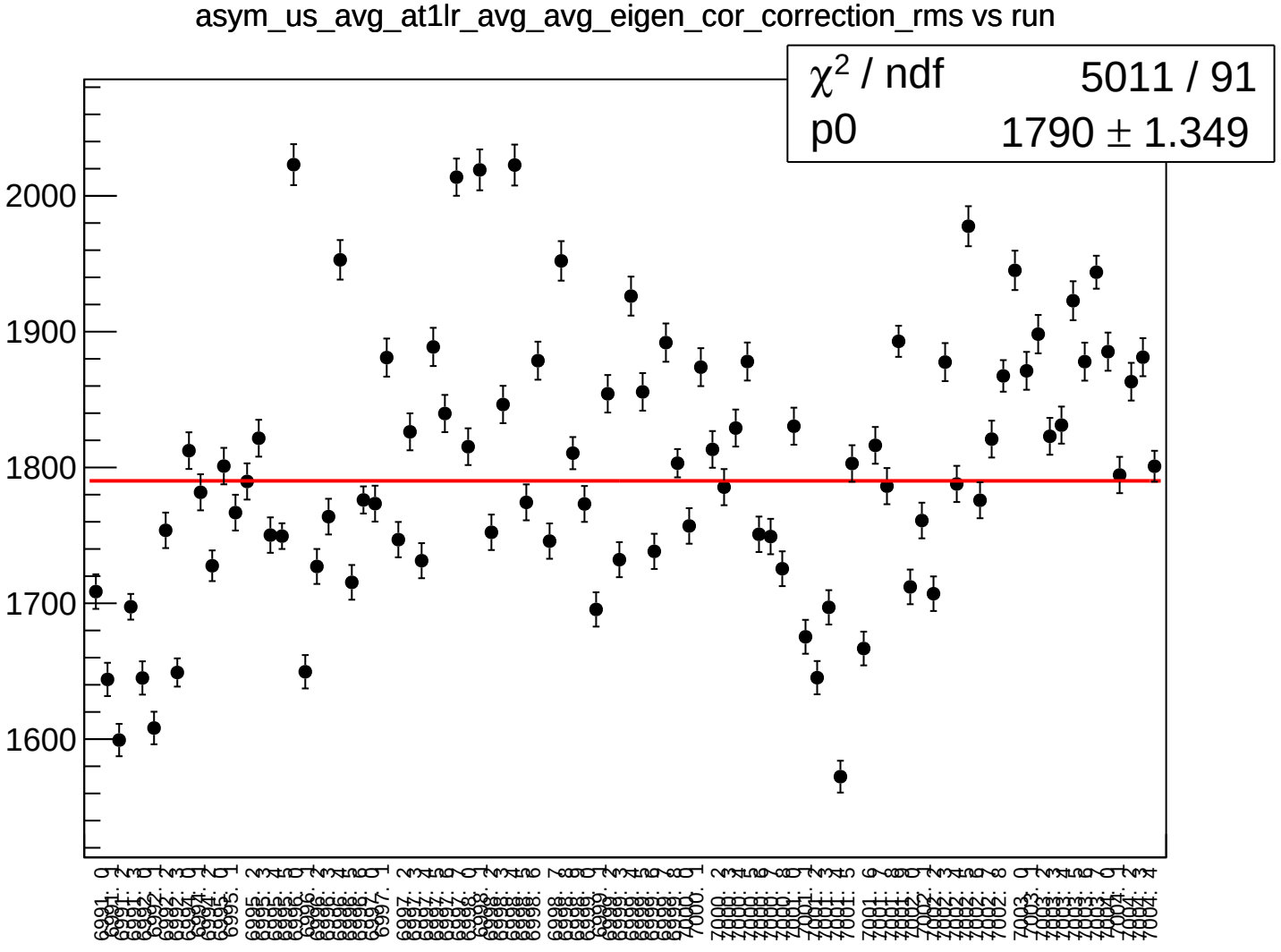

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 108.7 / 91
p0 −1582 ± 1908
pull
Entries 92
Mean 3493
Std Dev 0
pull1D
Entries 92
Mean −0.001449
Std Dev 1.087

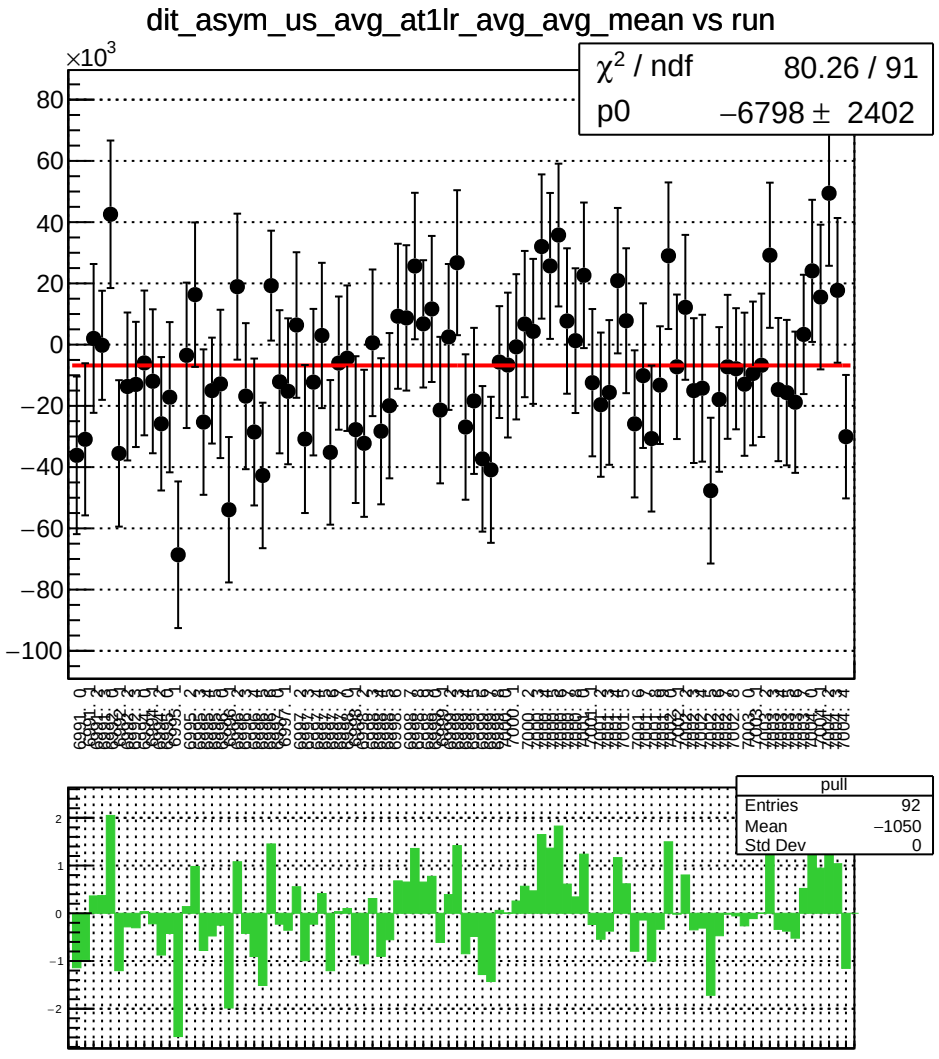

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 5011 / 91
p0 1790 ± 1.349
2000
1900
1800
1700
1600

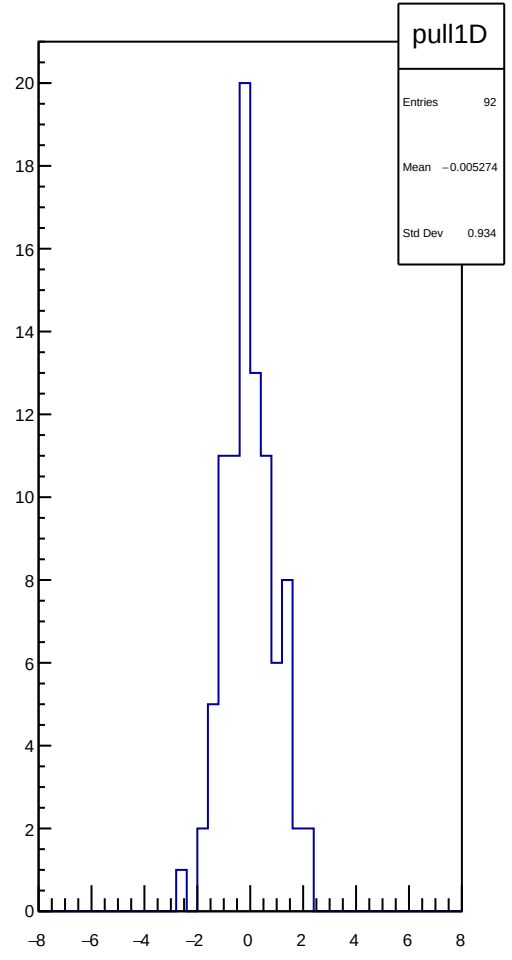

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 78.88 / 91
p0 −6739 ± 2398
pull
Entries 92
Mean −944.6
Std Dev 0
pull1D
Entries 92
Mean −0.0061
Std Dev 0.9259

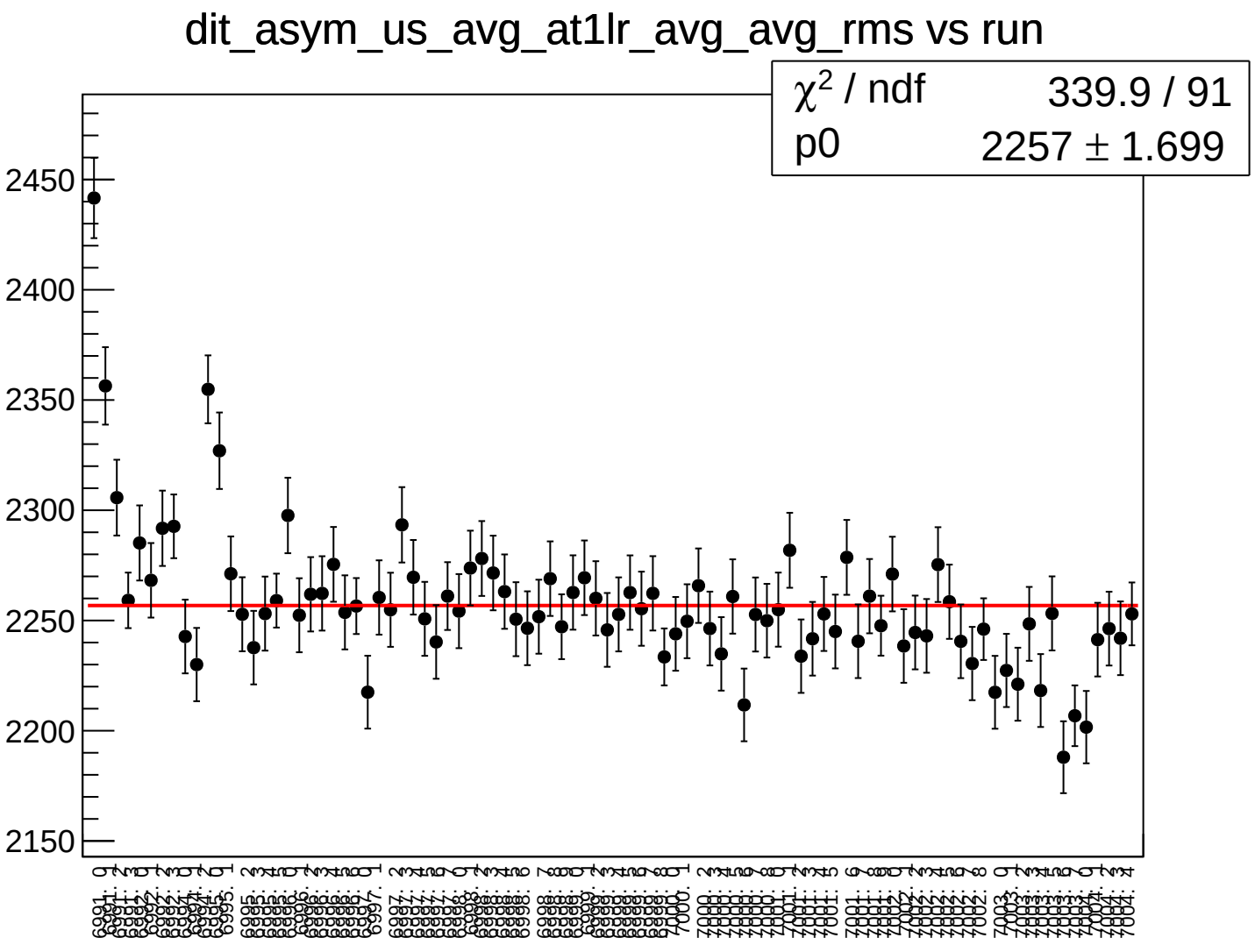

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 300.2 / 91
p0 2253 ± 1.696
2450
2400
2350
2300
2250
2200
2150

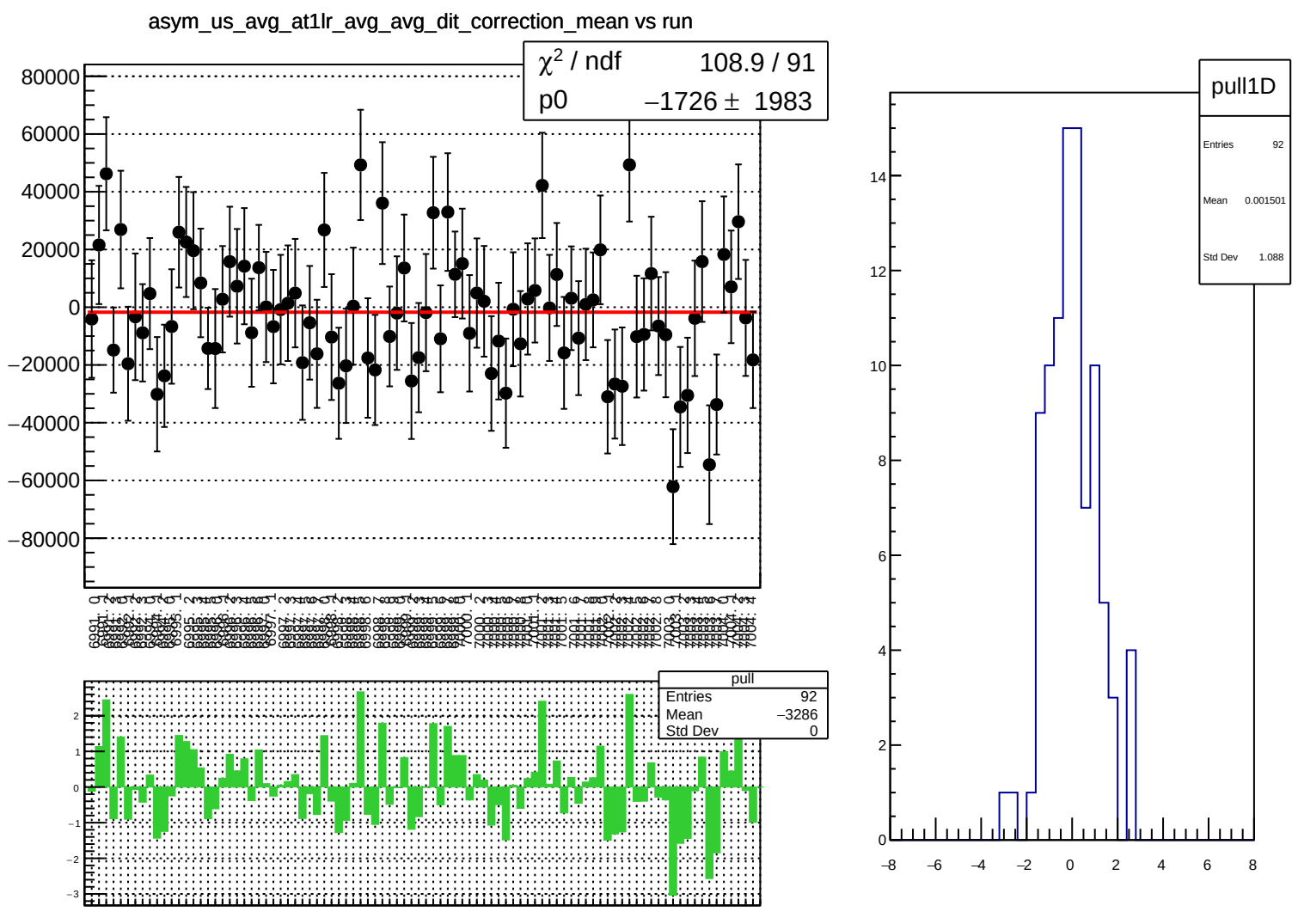

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 108.7 / 91
p0 −1582 ± 1908
pull
Entries 92
Mean 3493
Std Dev 0
pull1D
Entries 92
Mean −0.001449
Std Dev 1.087

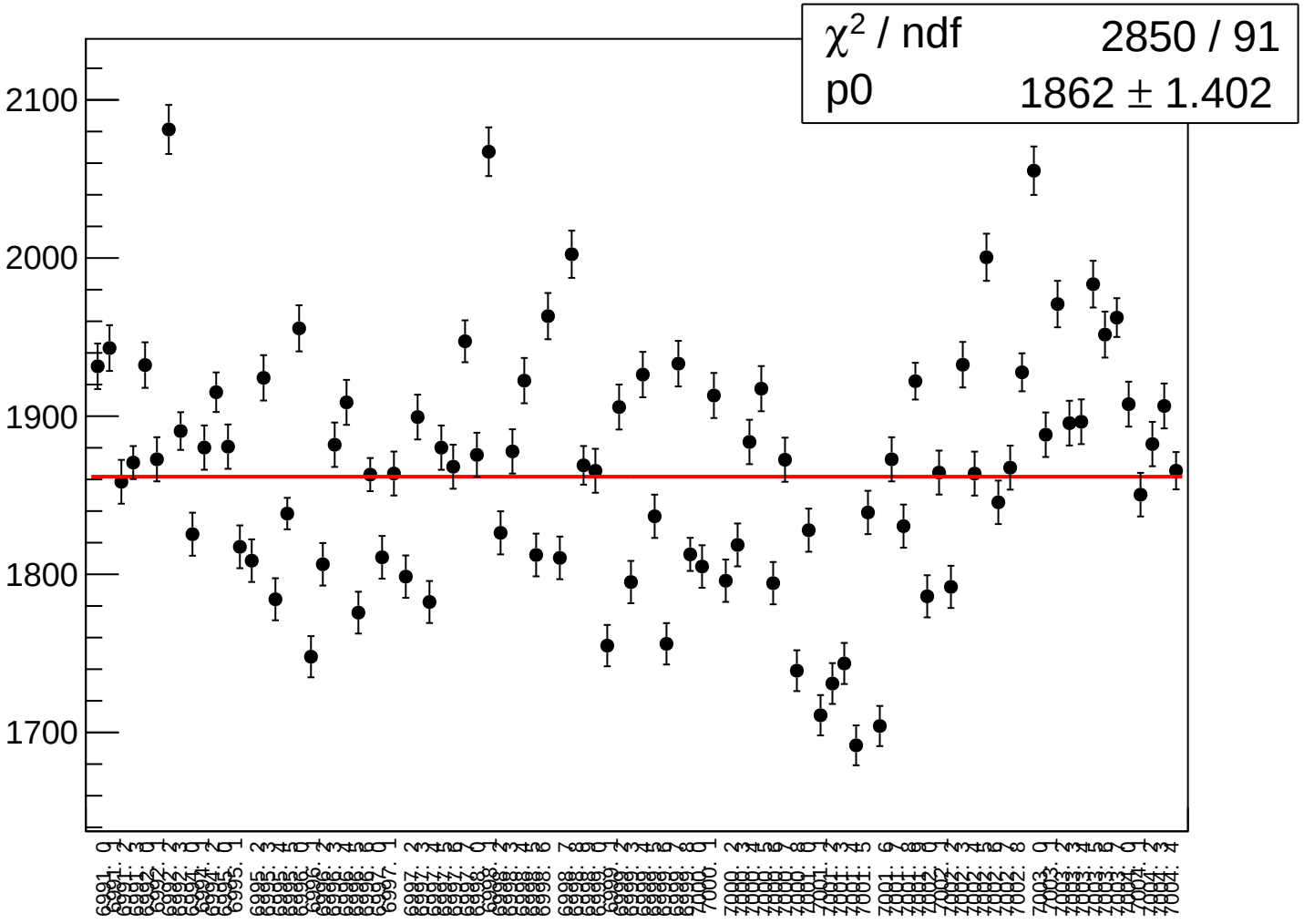

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5011 / 91
p0 1790 ± 1.349
2000
1900
1800
1700
1600

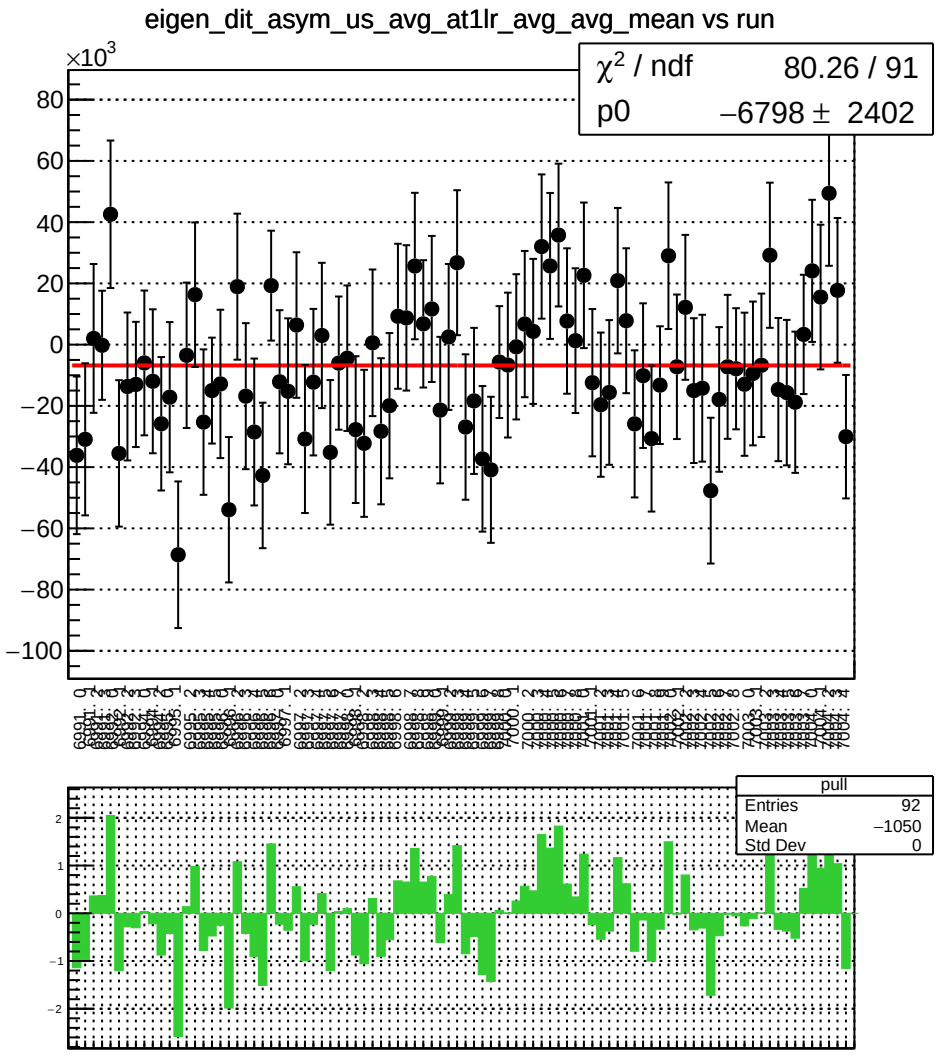

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 80.26 / 91
p0 −6798 ± 2402
pull
Entries 92
Mean −1050
Std Dev 0

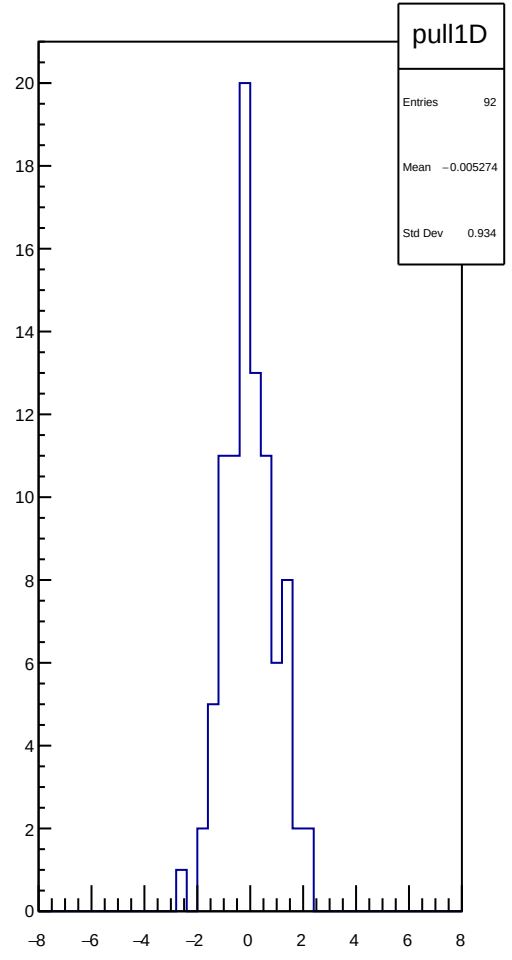

pull1D
Entries 92
Mean −0.005274
Std Dev 0.934

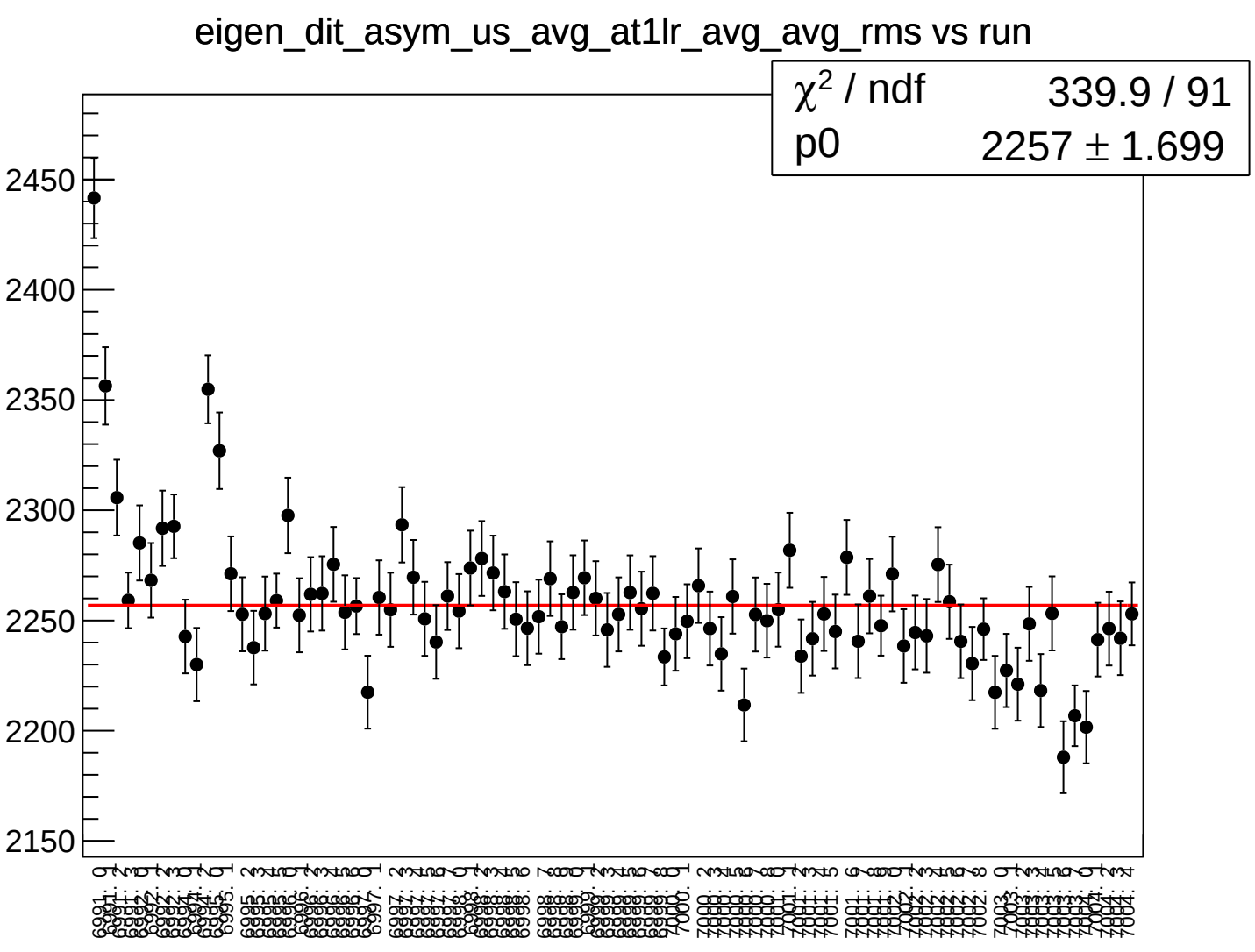

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 339.9 / 91
p0 2257 ± 1.699
2450
2400
2350
2300
2250
2200
2150

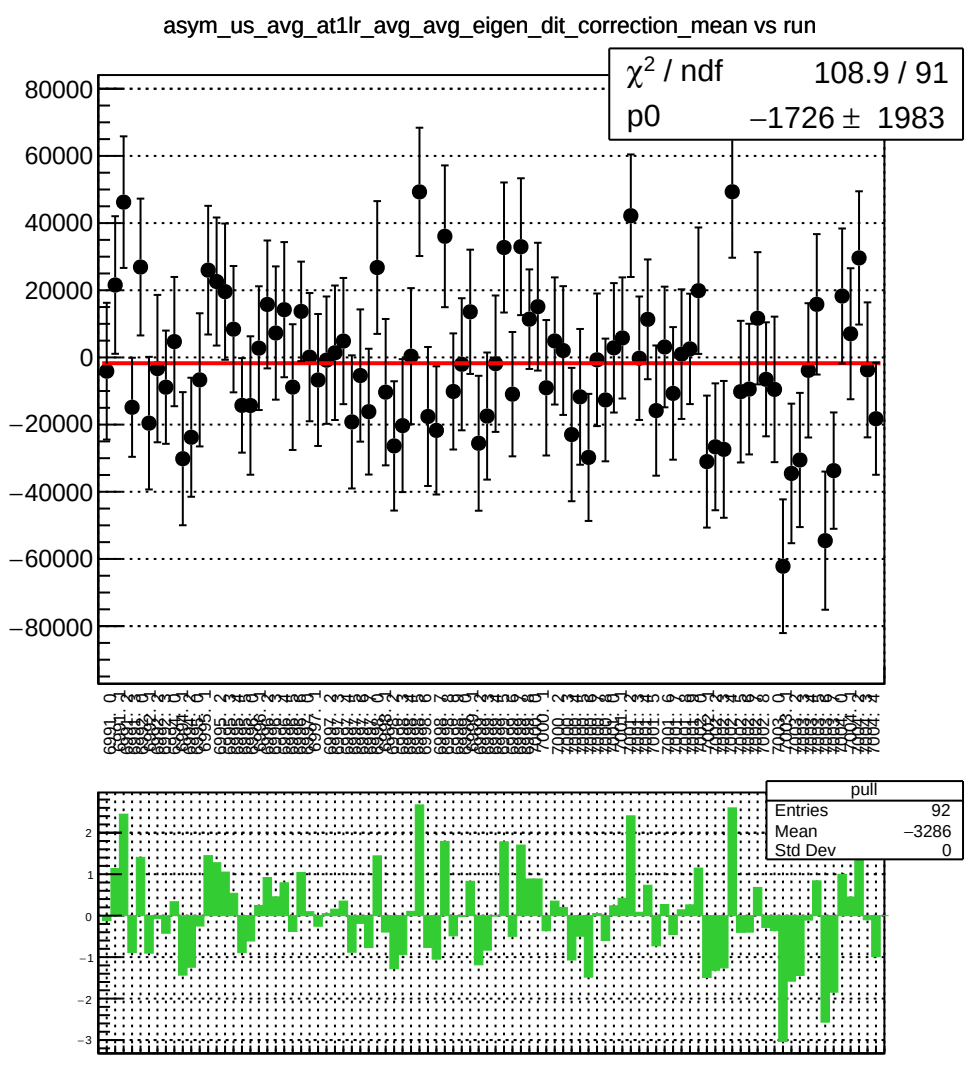

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 108.9 / 91
p0 −1726 ± 1983
pull
Entries 92
Mean −3286
Std Dev 0
pull1D
Entries 92
Mean 0.001501
Std Dev 1.088

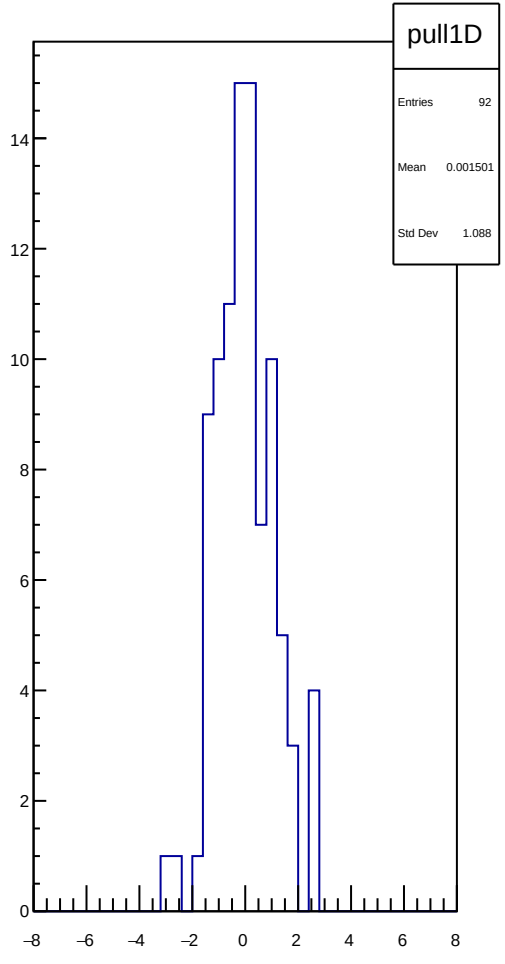

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2850 / 91
p0 1862 ± 1.402
2100
2000
1900
1800
1700

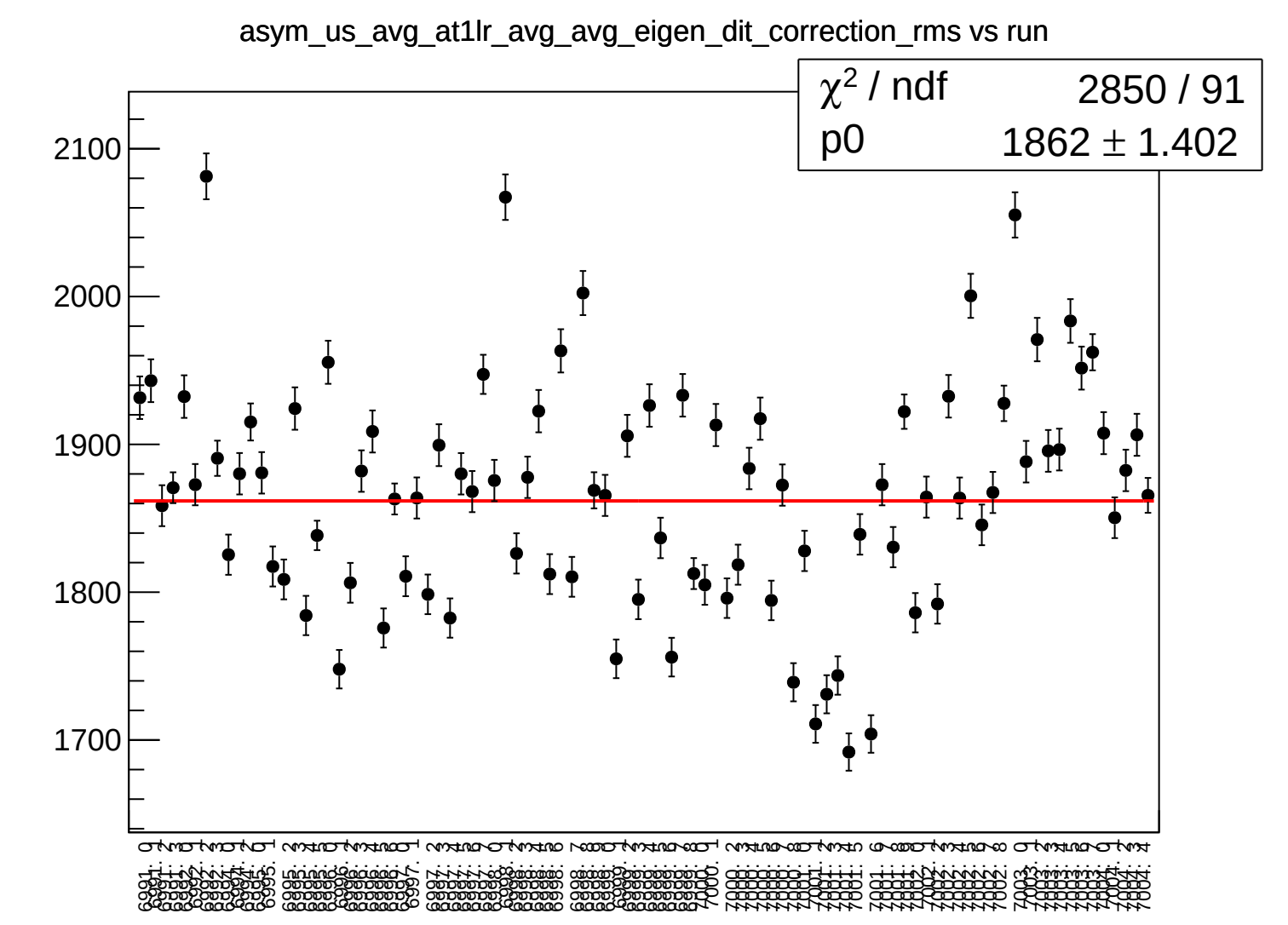

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 80.26 / 91
p0 −6798 ± 2402
pull
Entries 92
Mean −1050
Std Dev 0

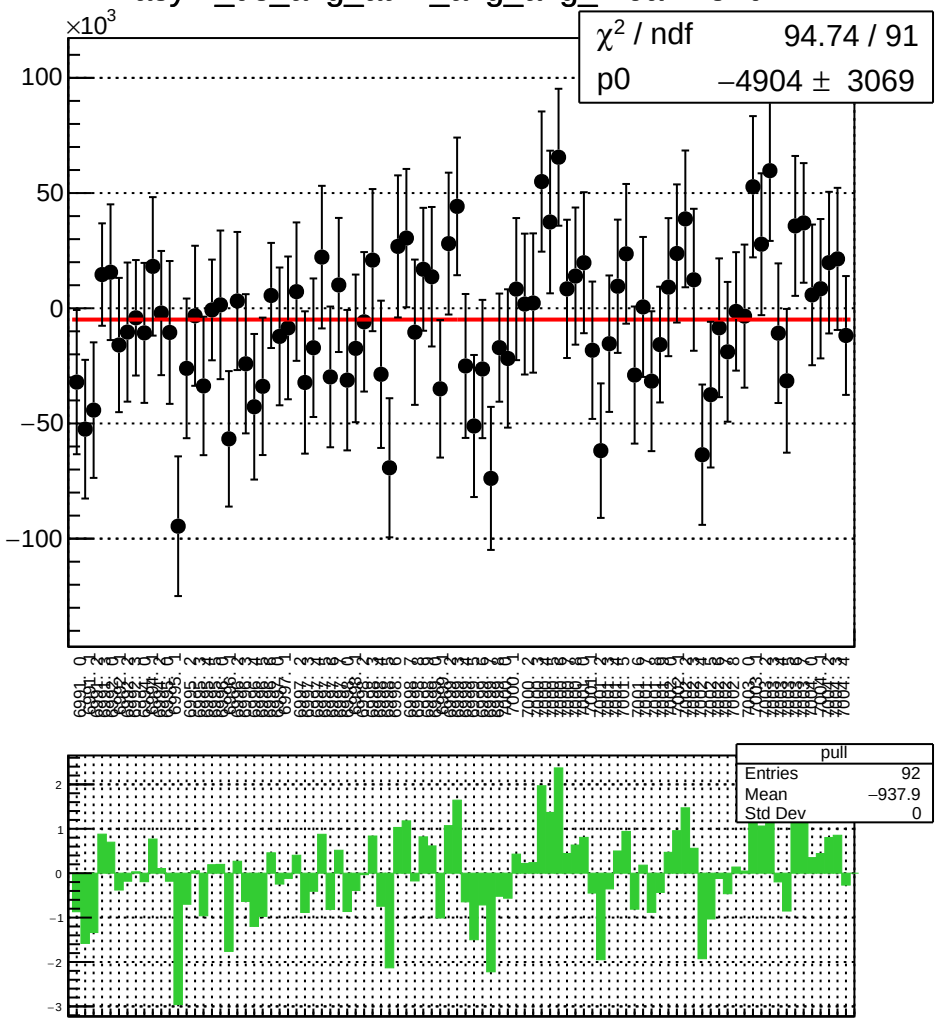

pull1D
Entries 92
Mean −0.005274
Std Dev 0.934

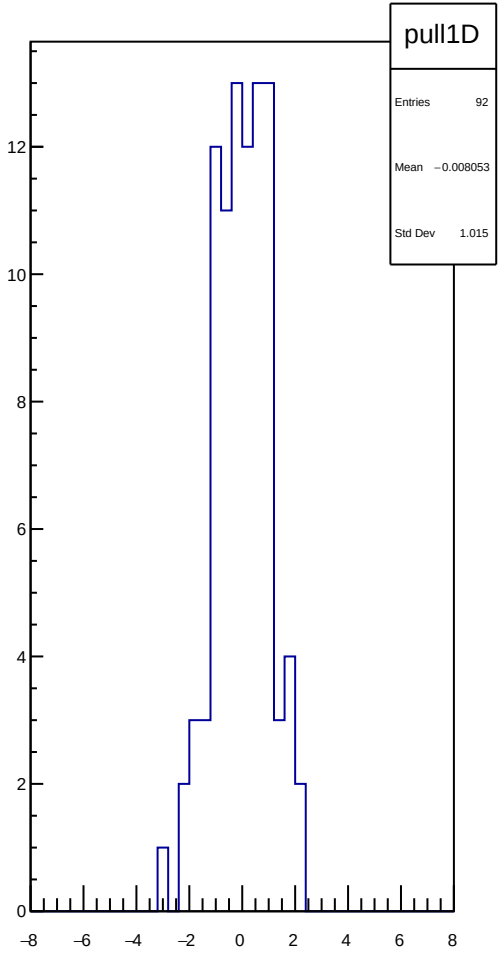

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 339.9 / 91
p0 2257 ± 1.699
2450
2400
2350
2300
2250
2200
2150

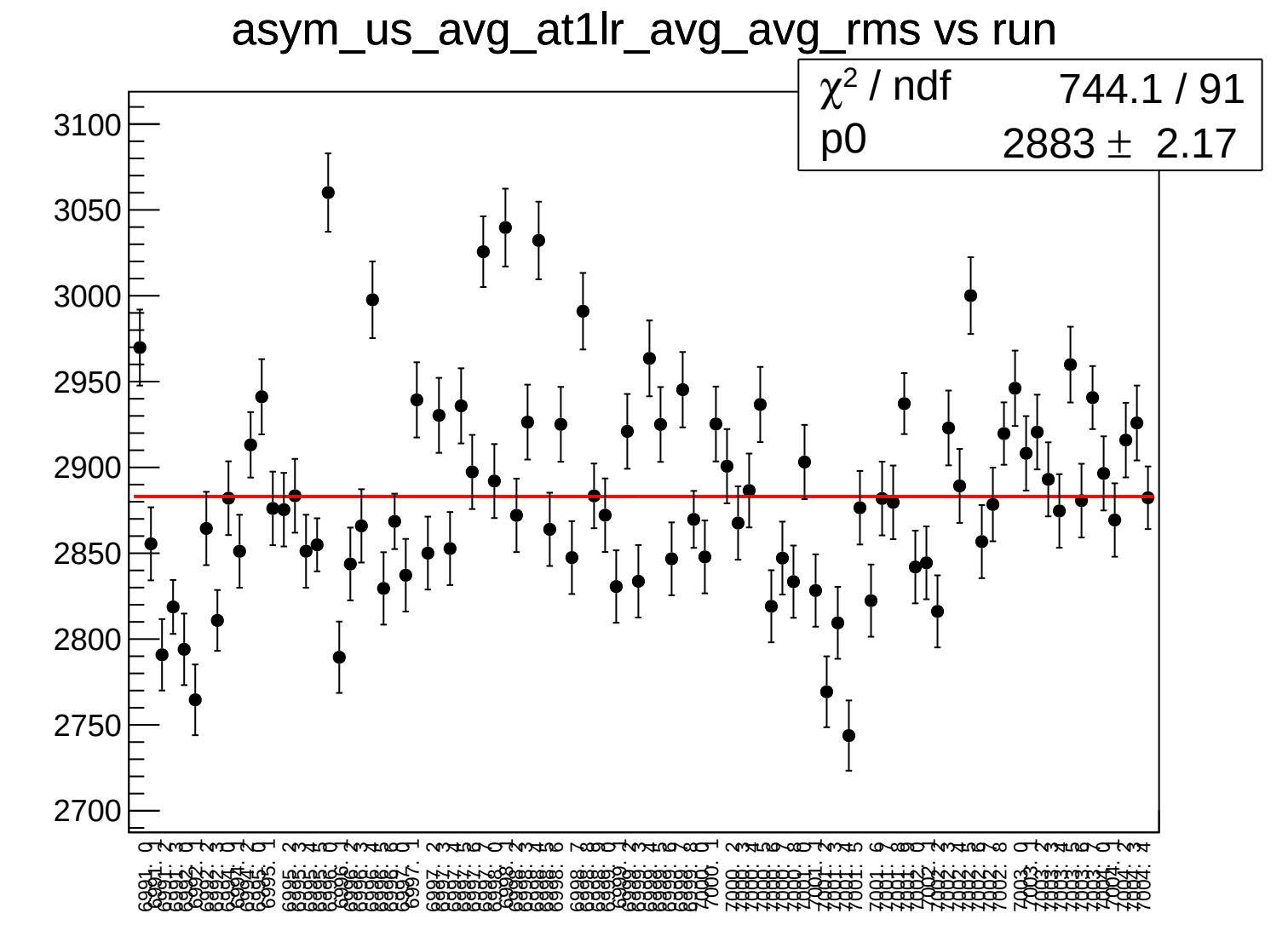

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 108.9 / 91
p0 −1726 ± 1983
pull
Entries 92
Mean −3286
Std Dev 0

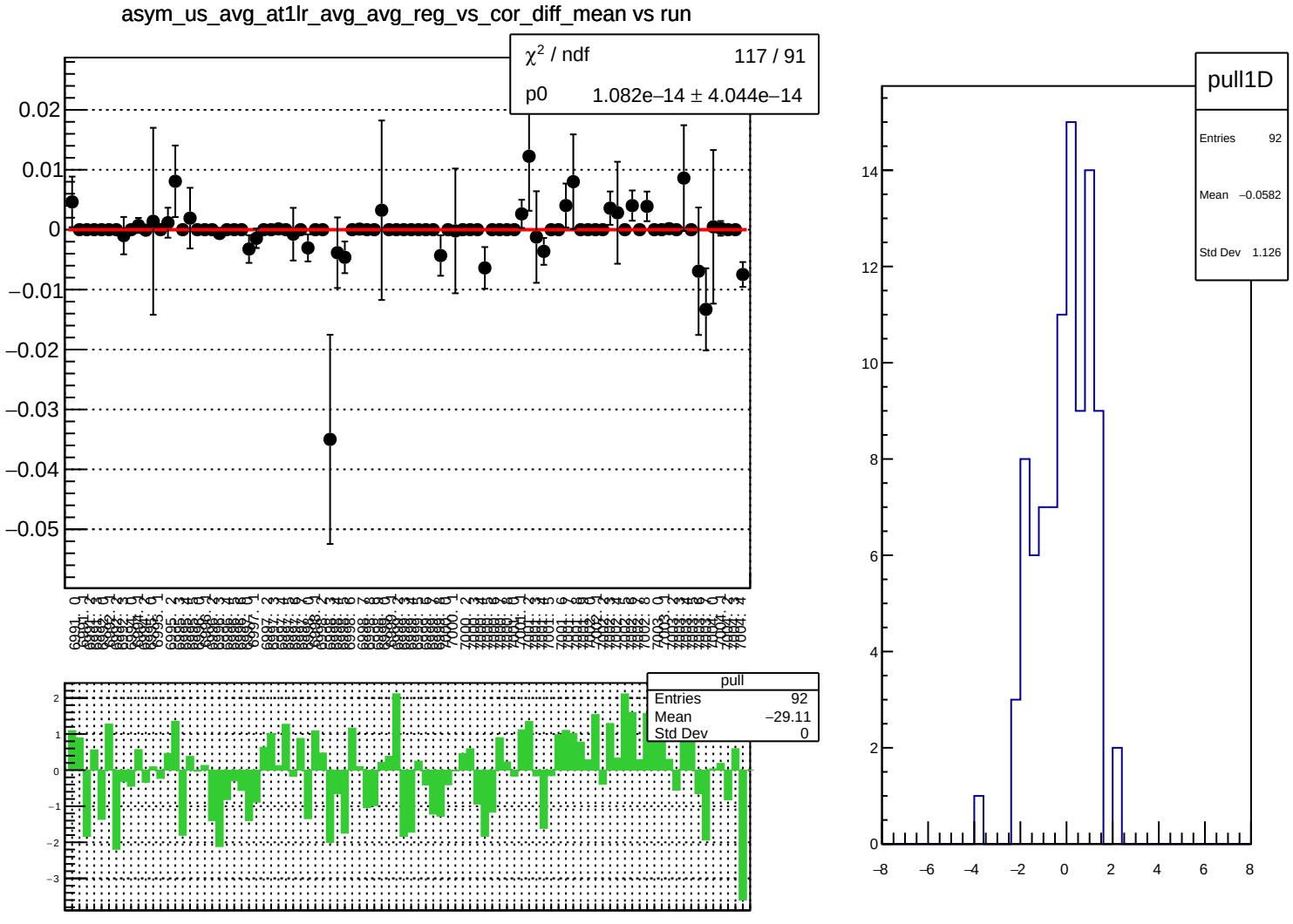

pull1D
Entries 92
Mean 0.001501
Std Dev 1.088

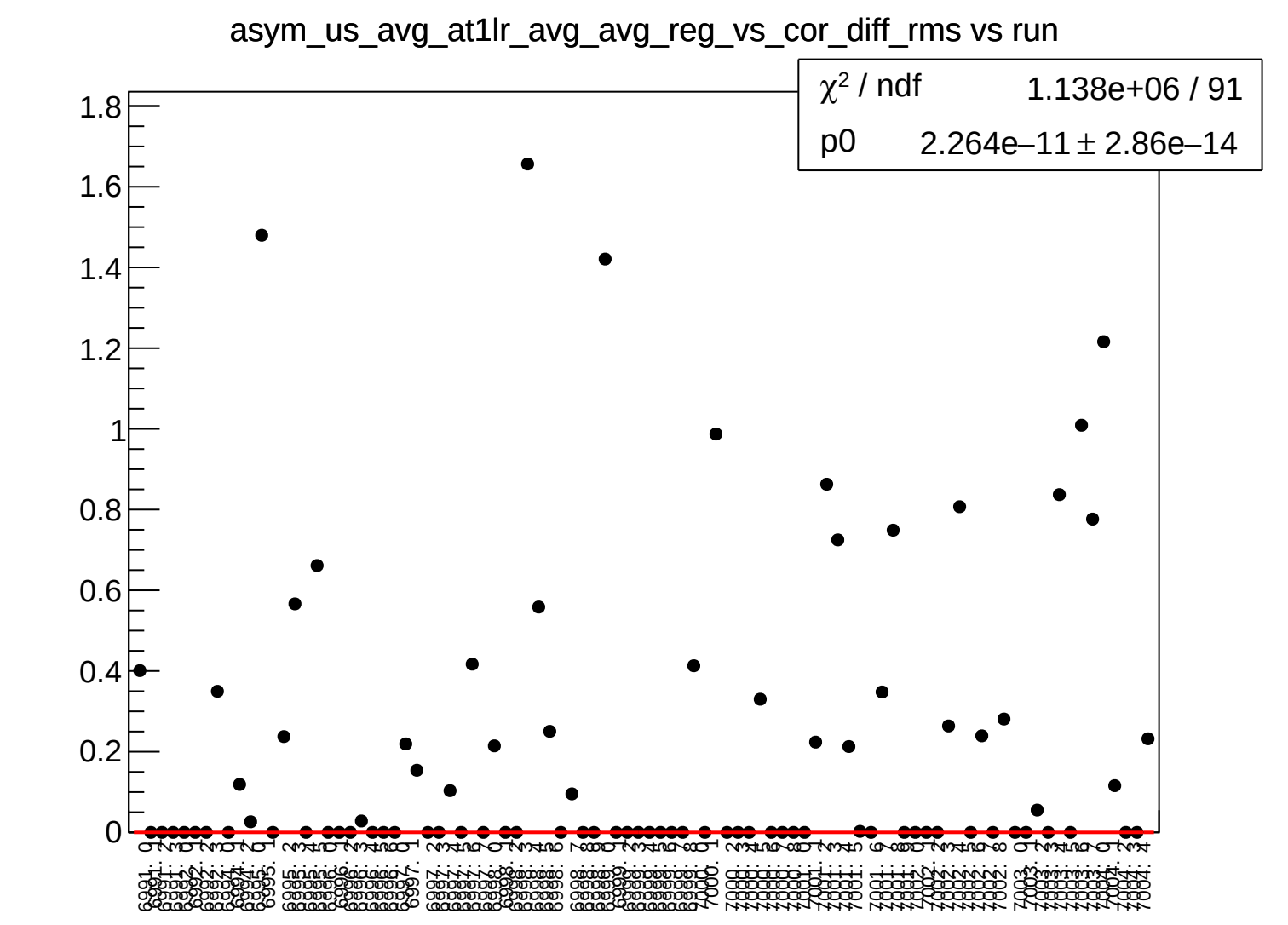

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2850 / 91
p0 1862 ± 1.402
2100
2000
1900
1800
1700

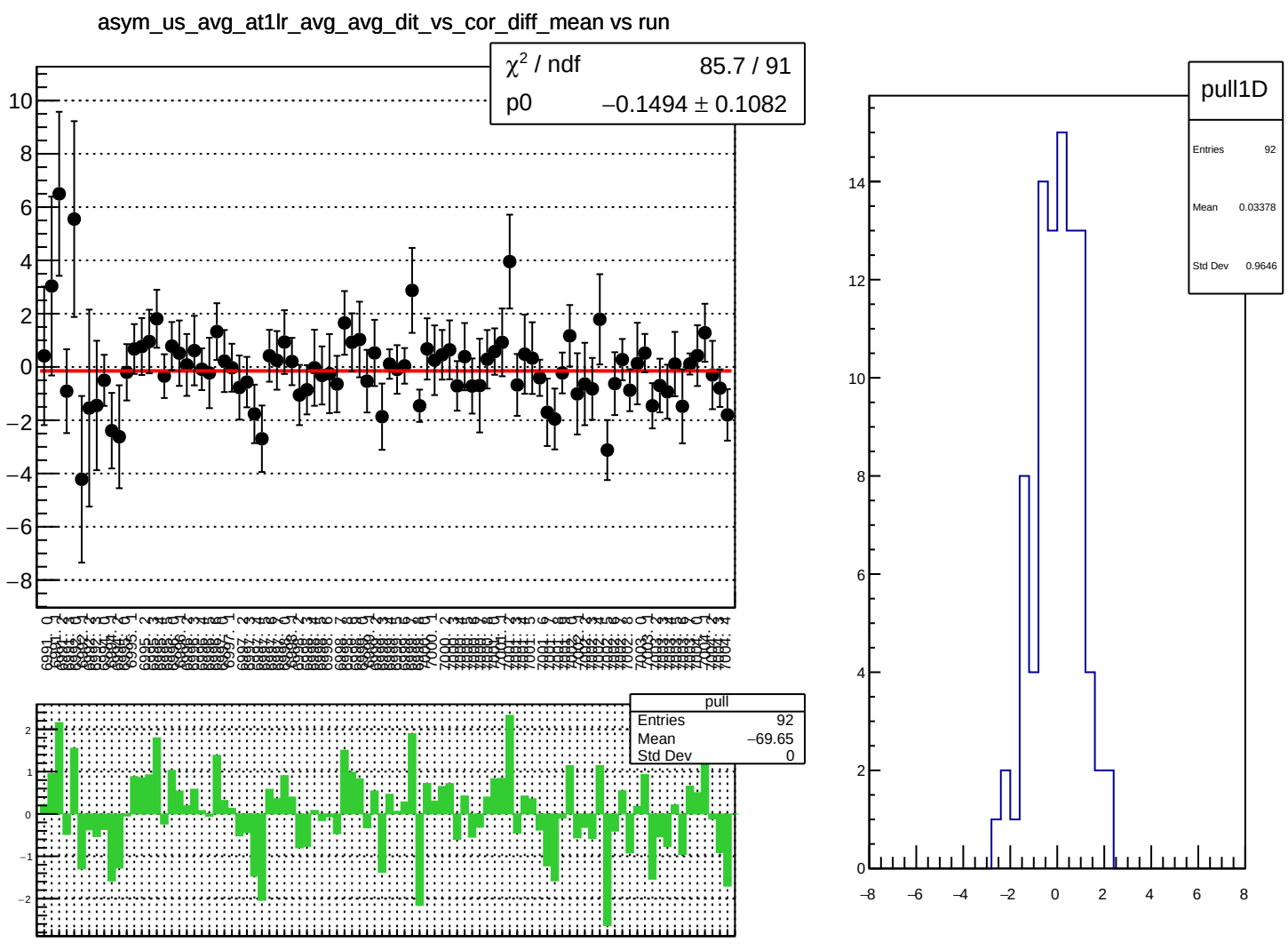

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 94.74 / 91
p0 −4904 ± 3069
100
50
0
−50
−100
pull
Entries 92
Mean −937.9
Std Dev 0
2
1
0
−1
−2
−3

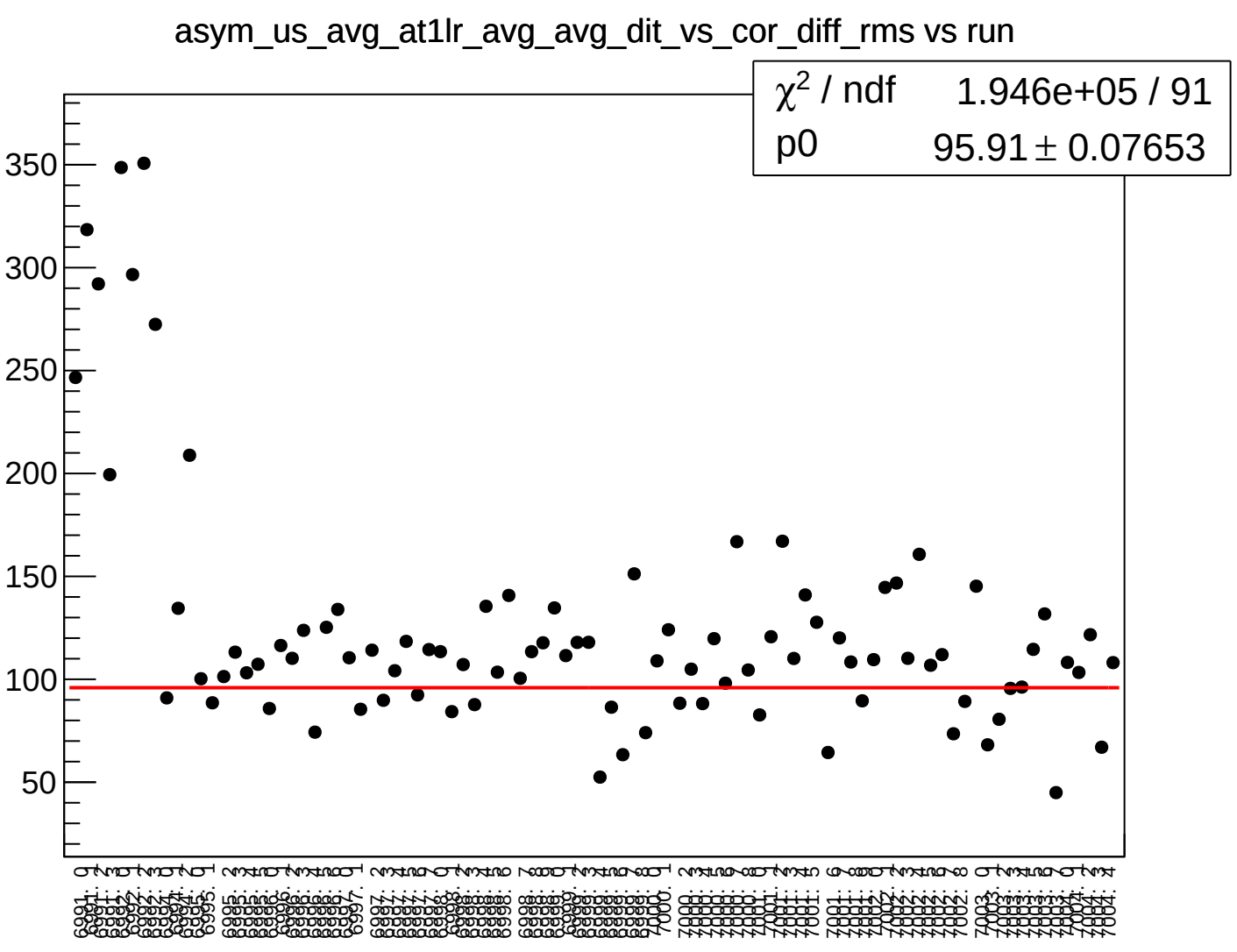

pull1D
Entries 92
Mean −0.008053
Std Dev 1.015
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

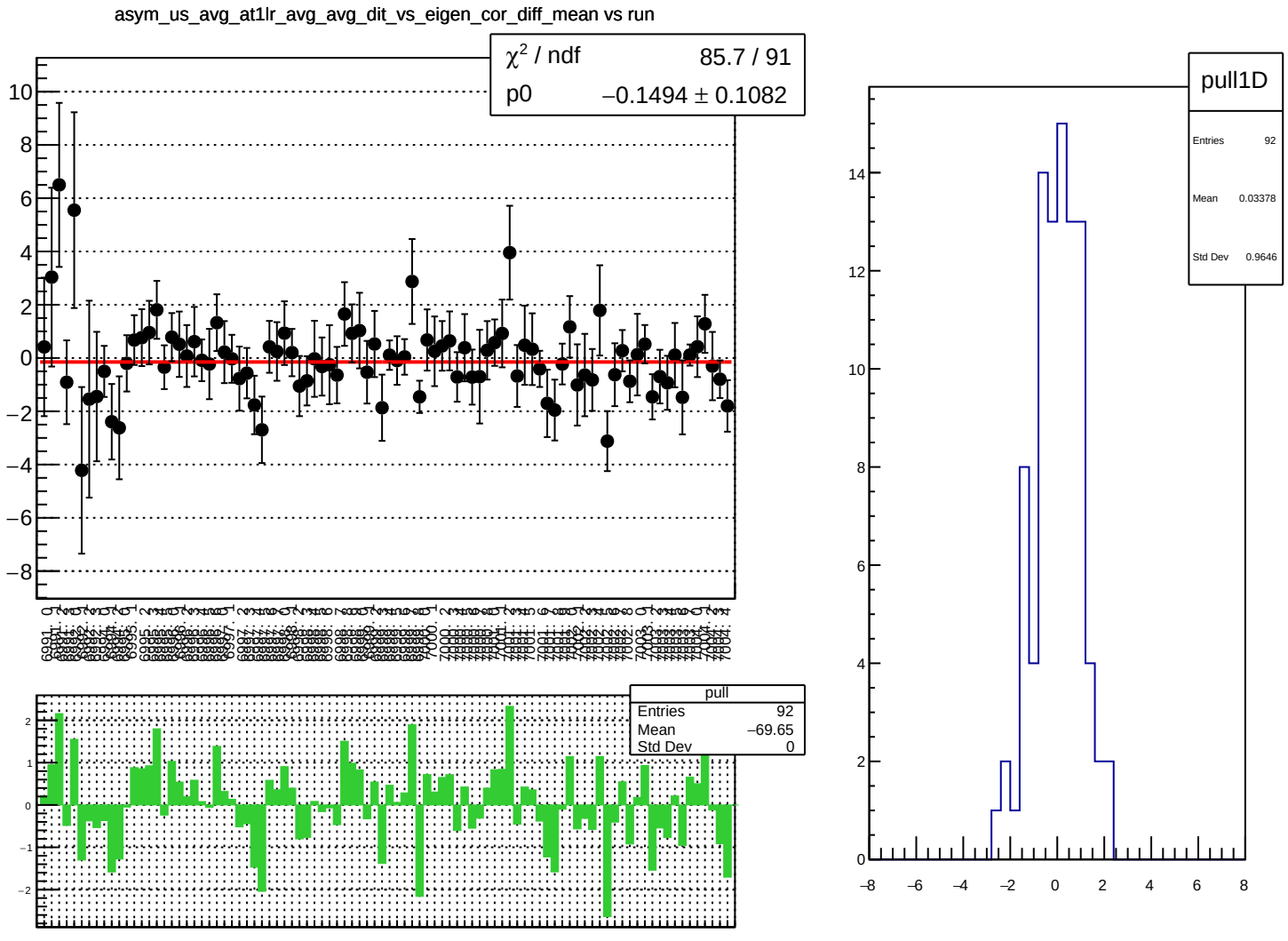

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 744.1 / 91
p0 2883 ± 2.17
3100
3050
3000
2950
2900
2850
2800
2750
2700

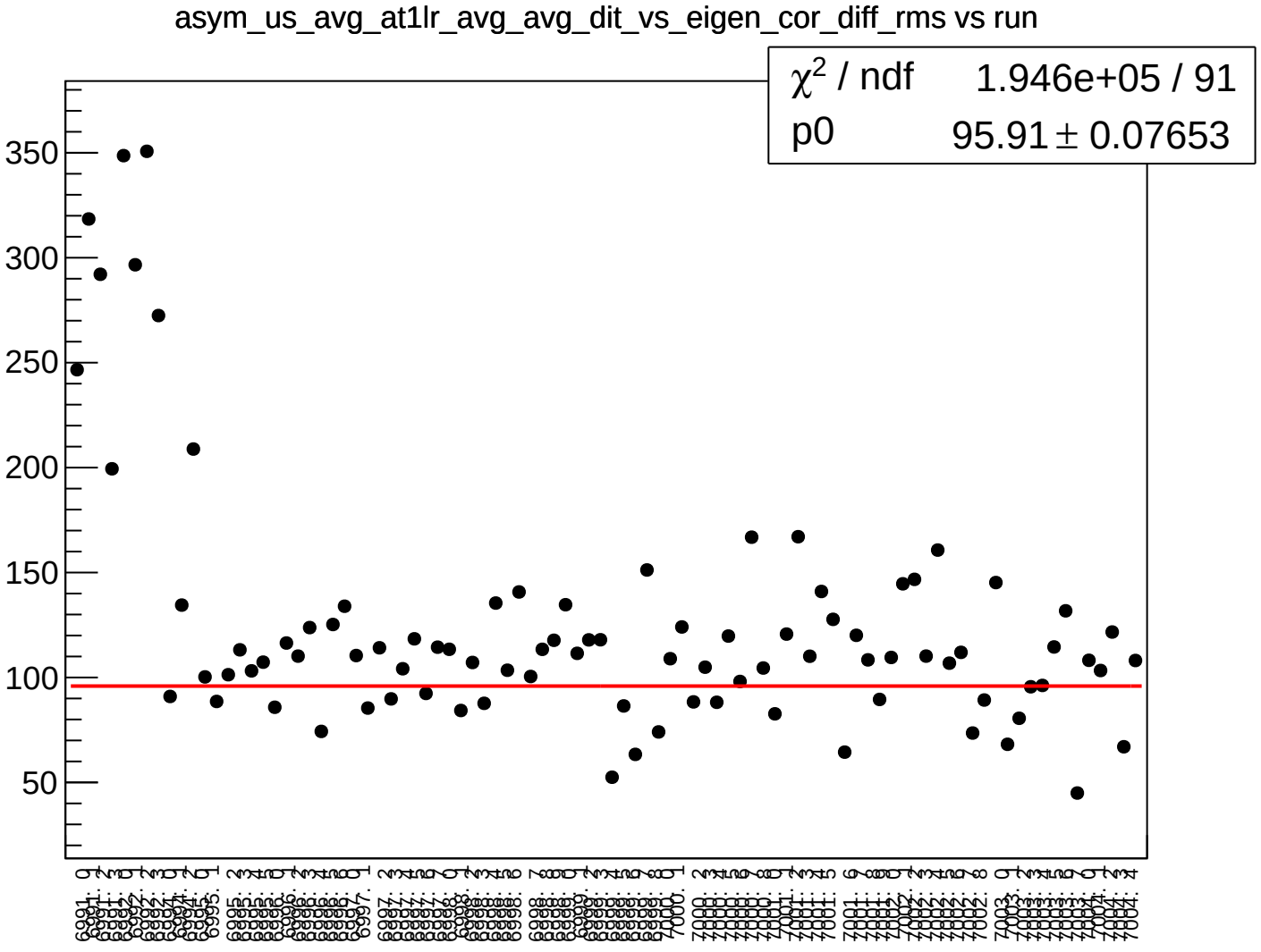

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 117 / 91
p0 1.082e−14 ± 4.044e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 92
Mean −29.11
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0582
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

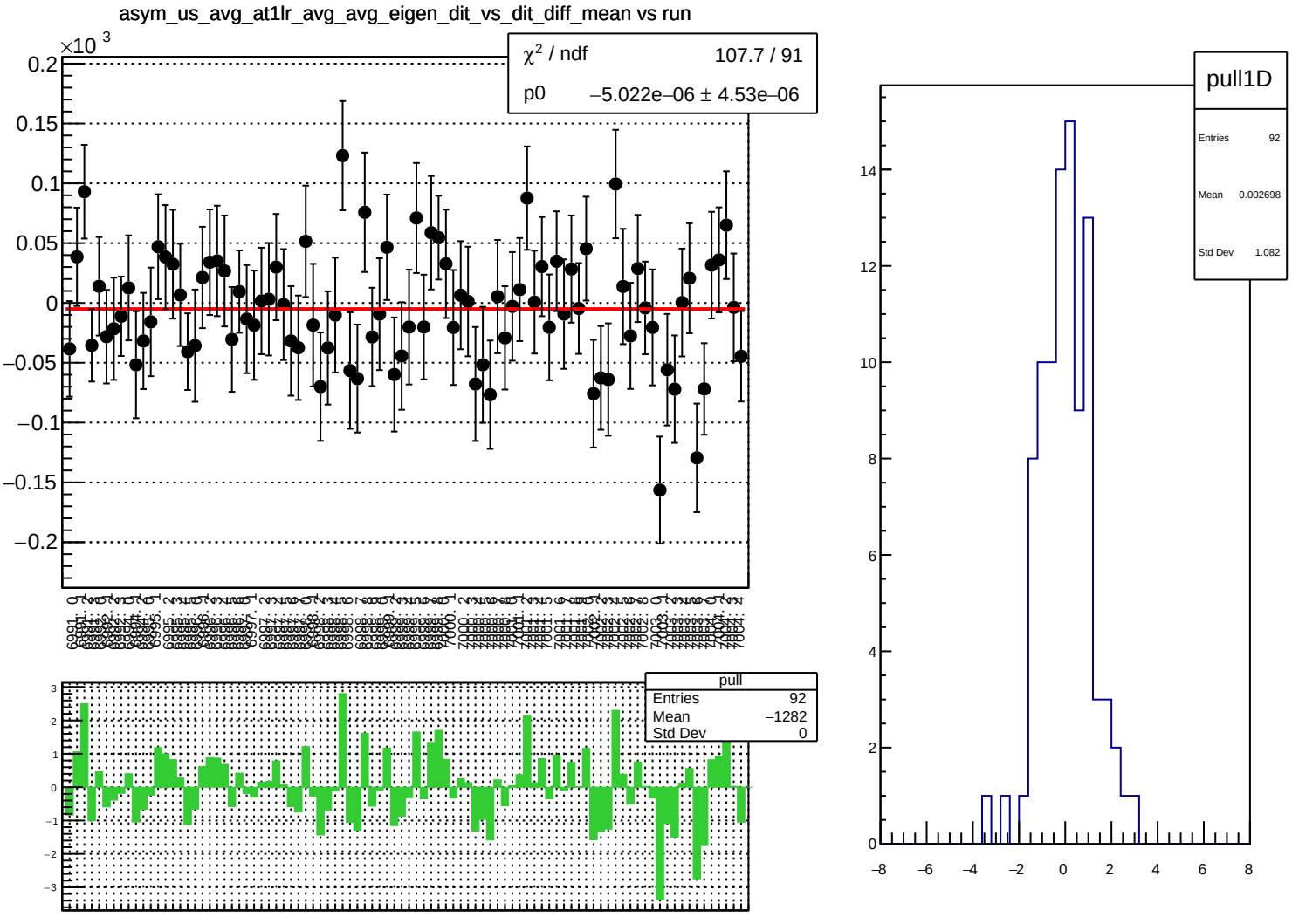

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.138e+06 / 91
p0 2.264e−11 ± 2.86e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

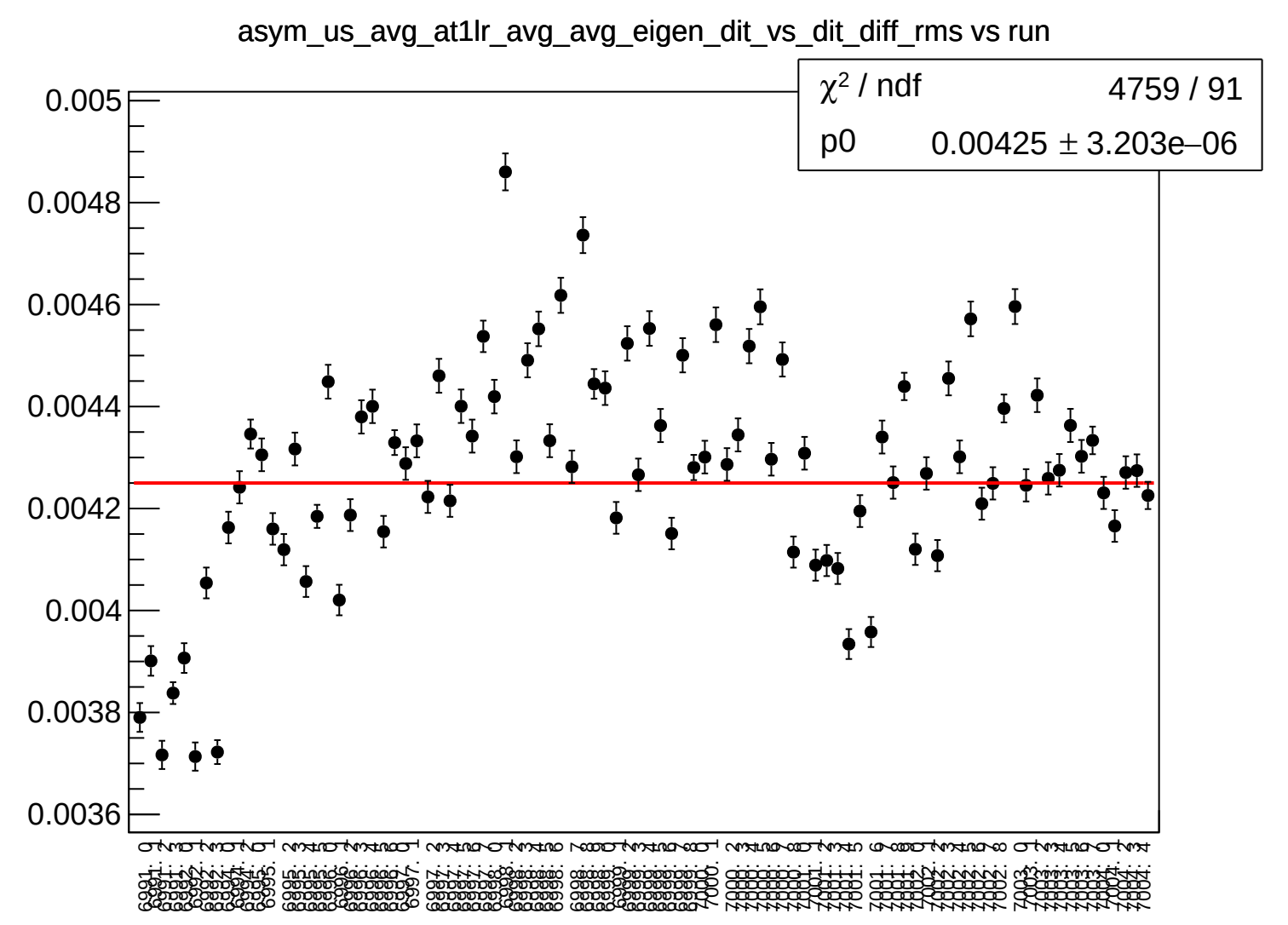

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.7 / 91
p0 −0.1494 ± 0.1082
pull
Entries 92
Mean −69.65
Std Dev 0
pull1D
Entries 92
Mean 0.03378
Std Dev 0.9646

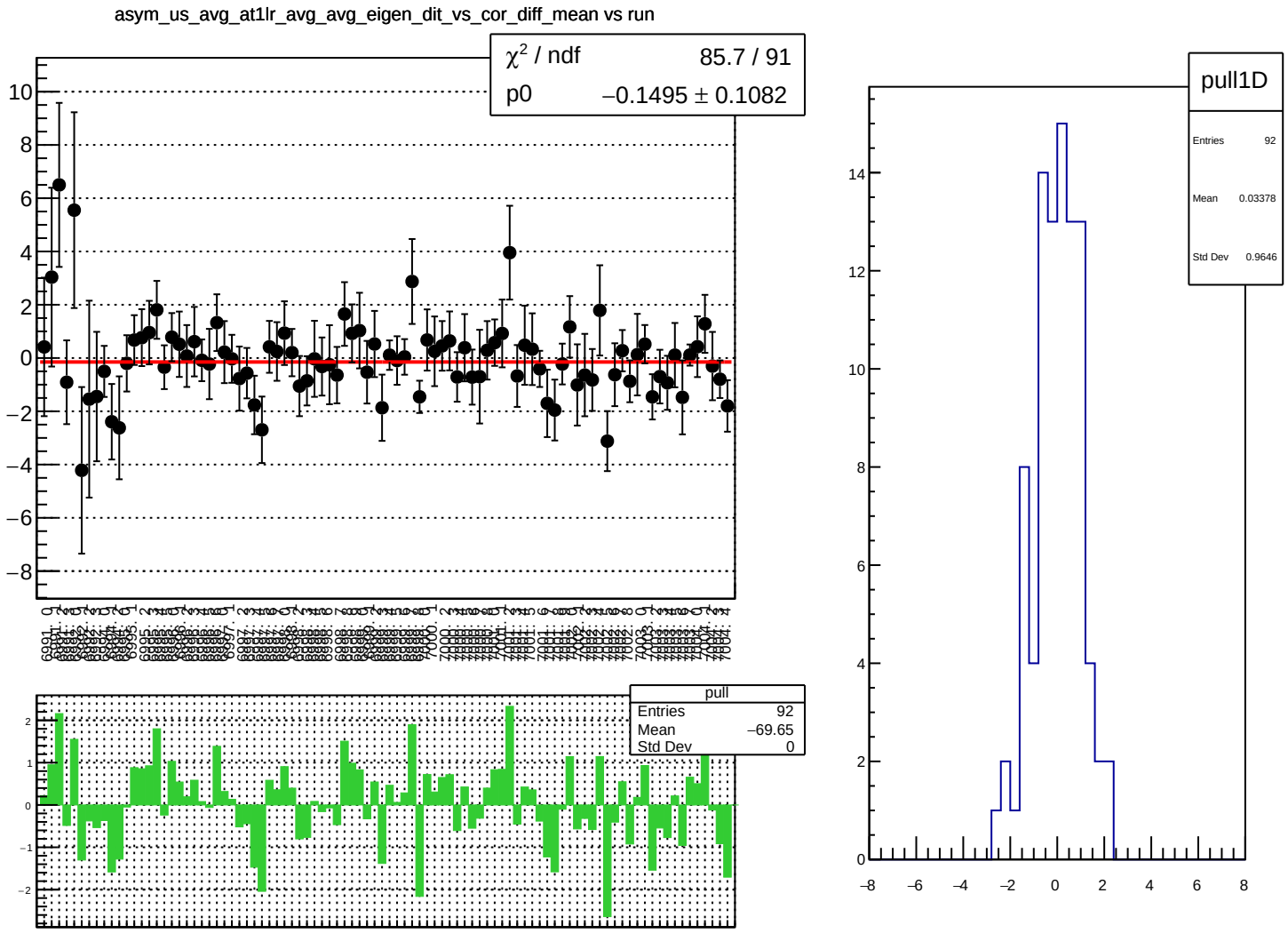

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.946e+05 / 91
p0 95.91 ± 0.07653
350
300
250
200
150
100
50

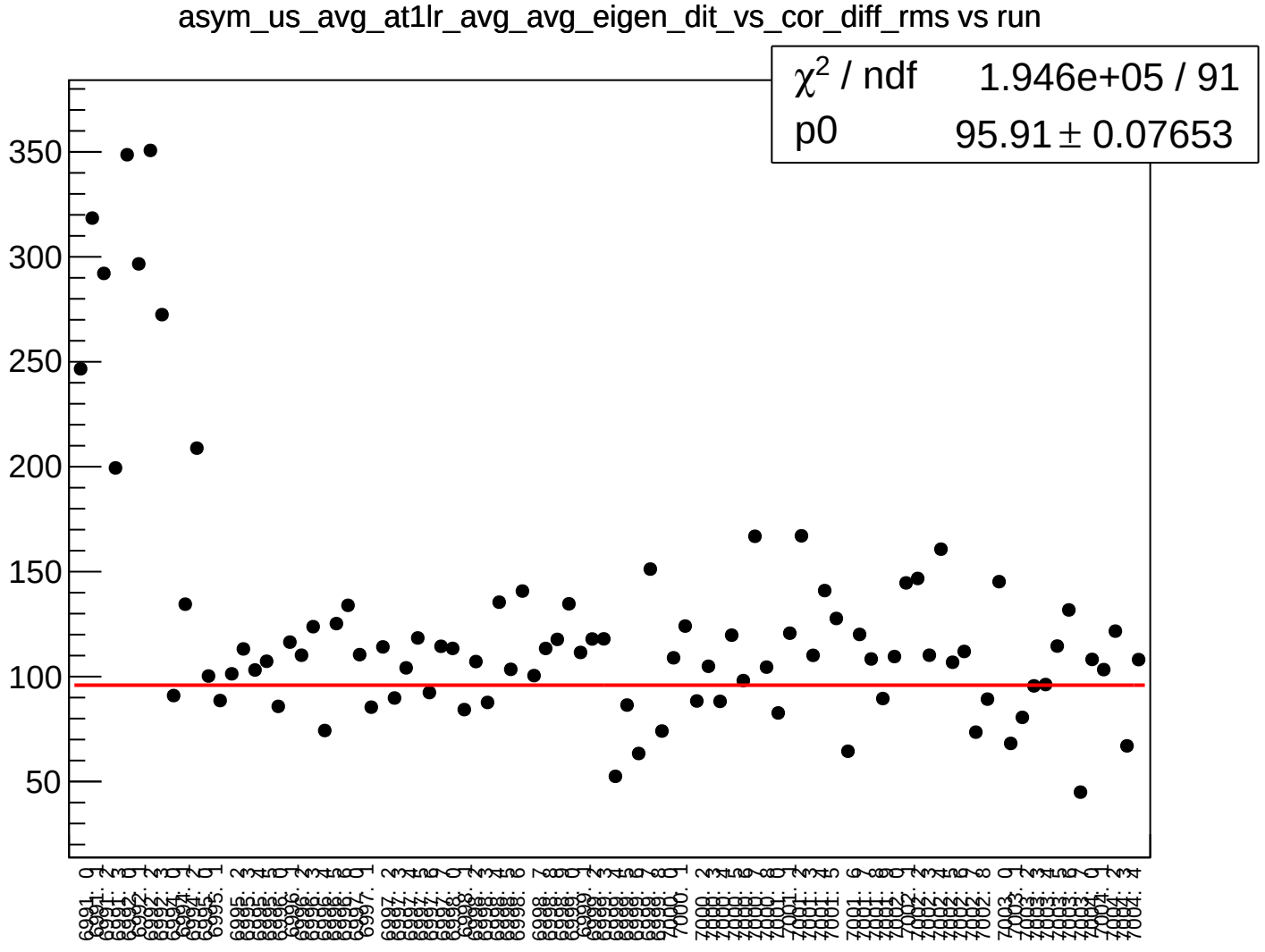

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.7 / 91
p0 −0.1494 ± 0.1082
pull
Entries 92
Mean −69.65
Std Dev 0
pull1D
Entries 92
Mean 0.03378
Std Dev 0.9646

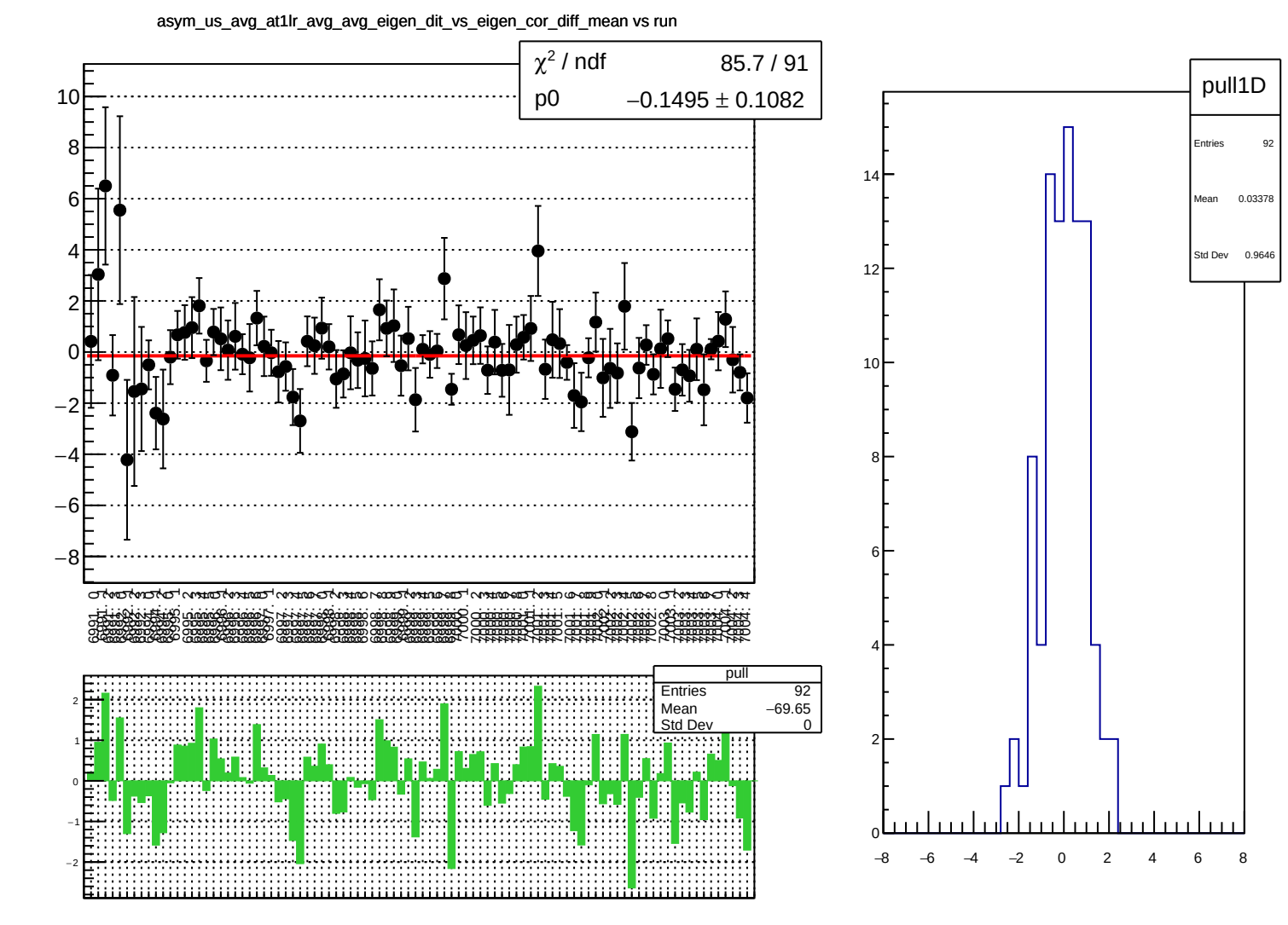

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.946e+05 / 91
p0 95.91 ± 0.07653
350
300
250
200
150
100
50

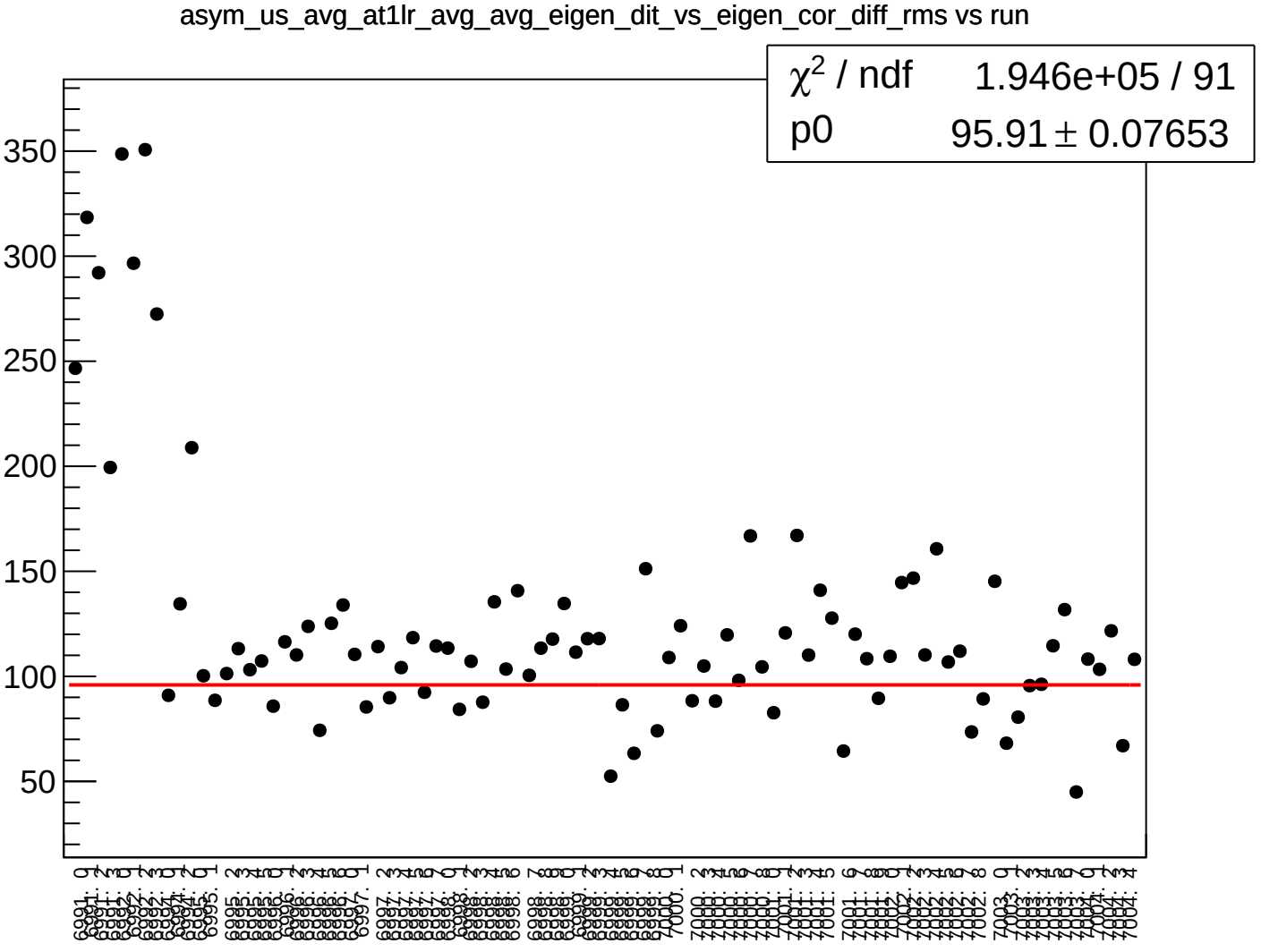

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 107.7 / 91
p0 −5.022e−06 ± 4.53e−06
pull
Entries 92
Mean −1282
Std Dev 0
pull1D
Entries 92
Mean 0.002698
Std Dev 1.082

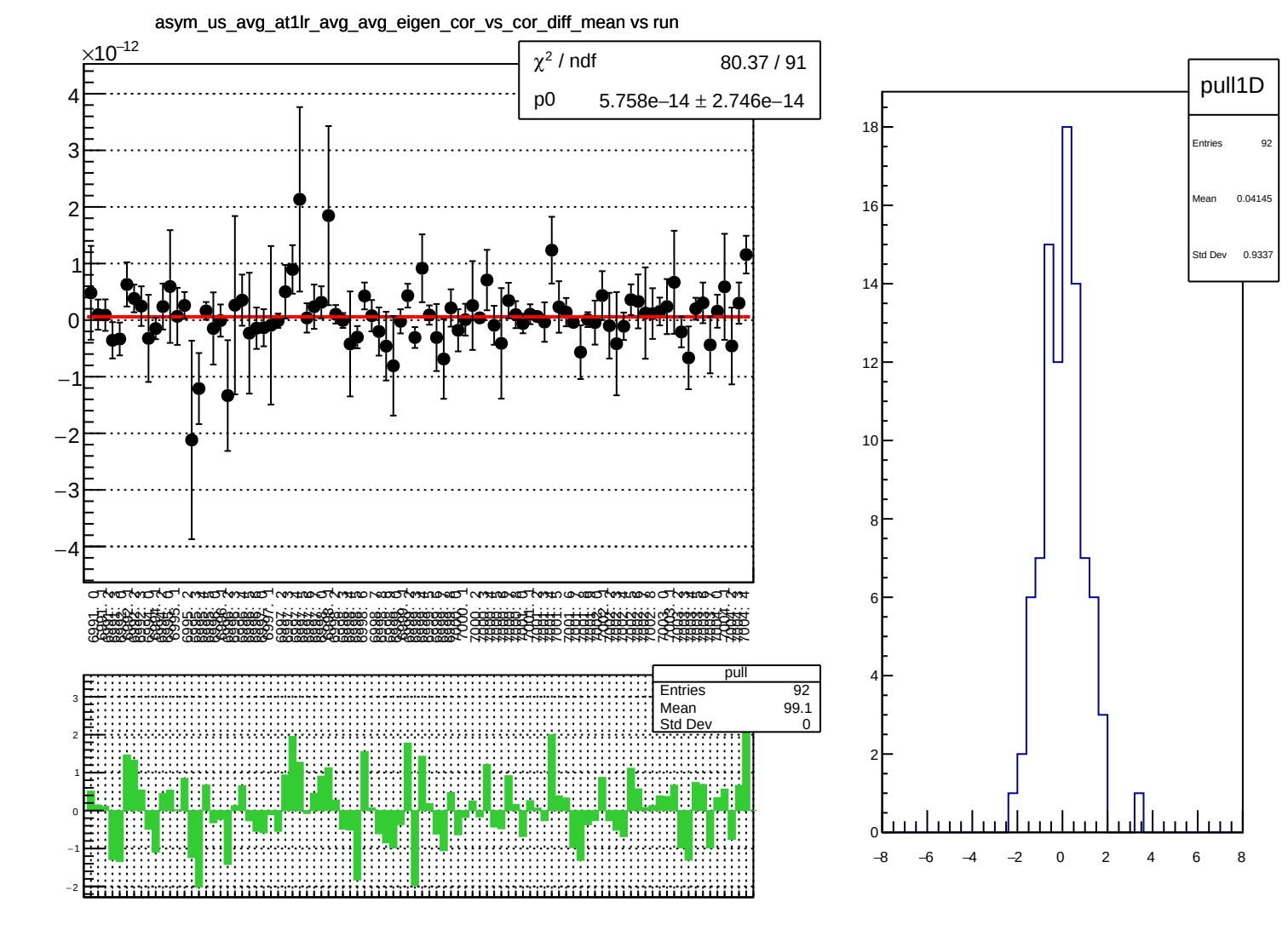

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4759 / 91
p0 0.00425 ± 3.203e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

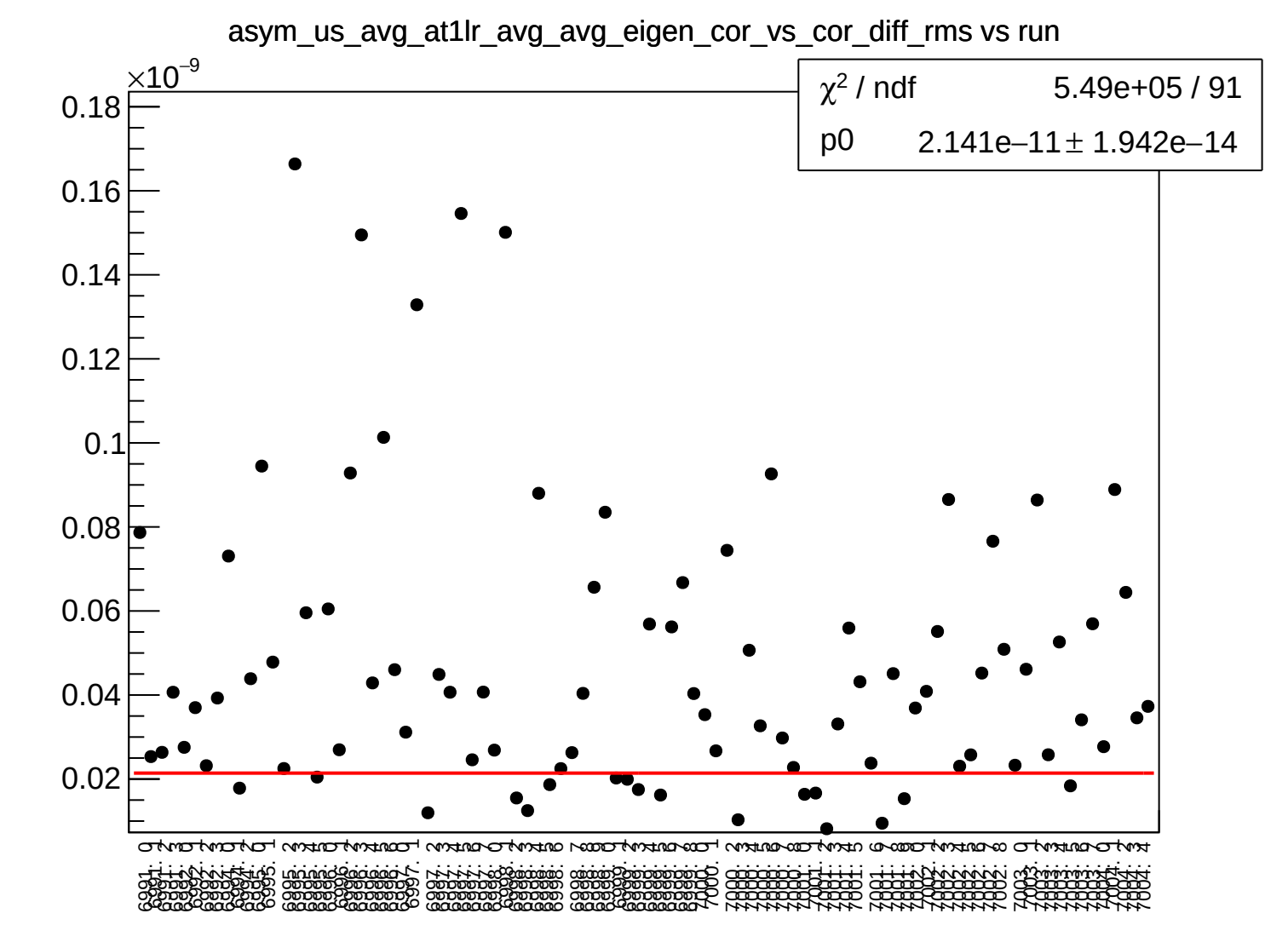

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.7 / 91
p0 −0.1495 ± 0.1082
pull
Entries 92
Mean −69.65
Std Dev 0
pull1D
Entries 92
Mean 0.03378
Std Dev 0.9646

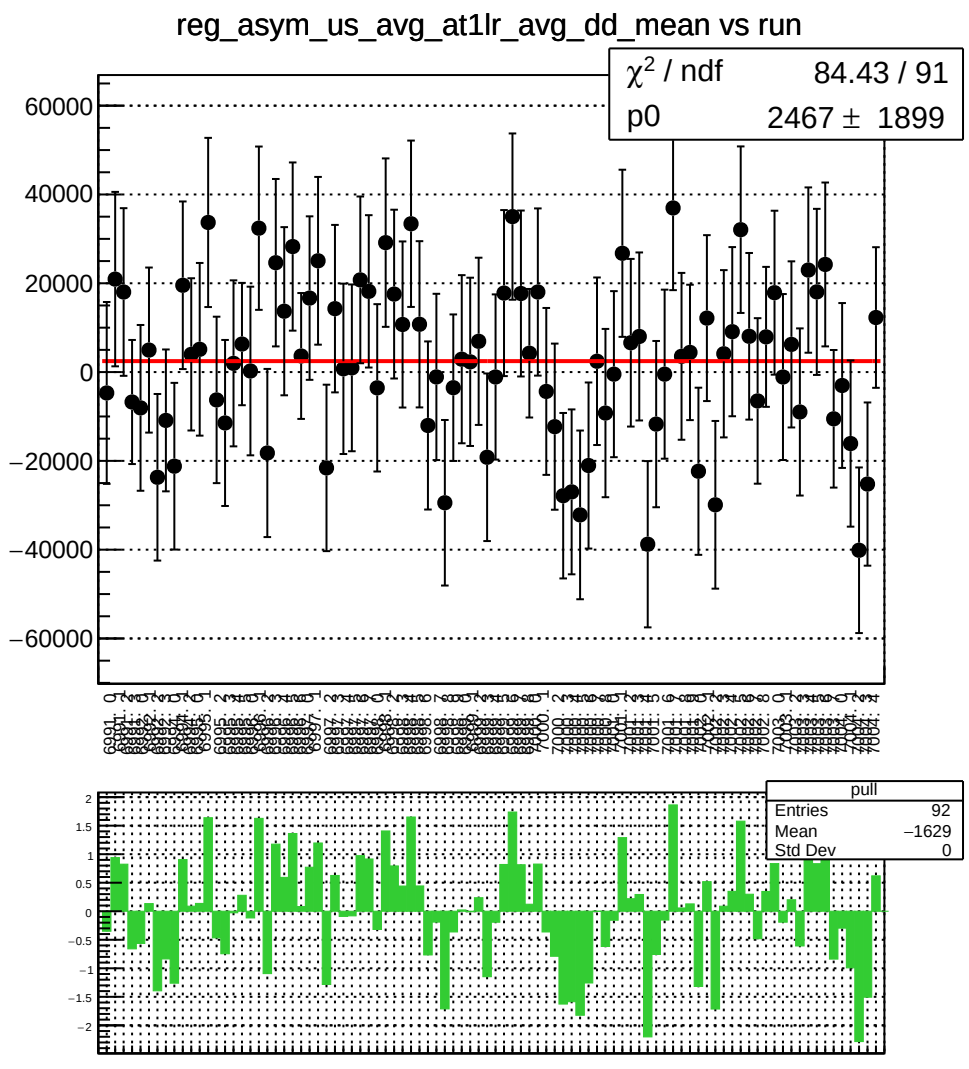

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.946e+05 / 91
p0 95.91 ± 0.07653
350
300
250
200
150
100
50

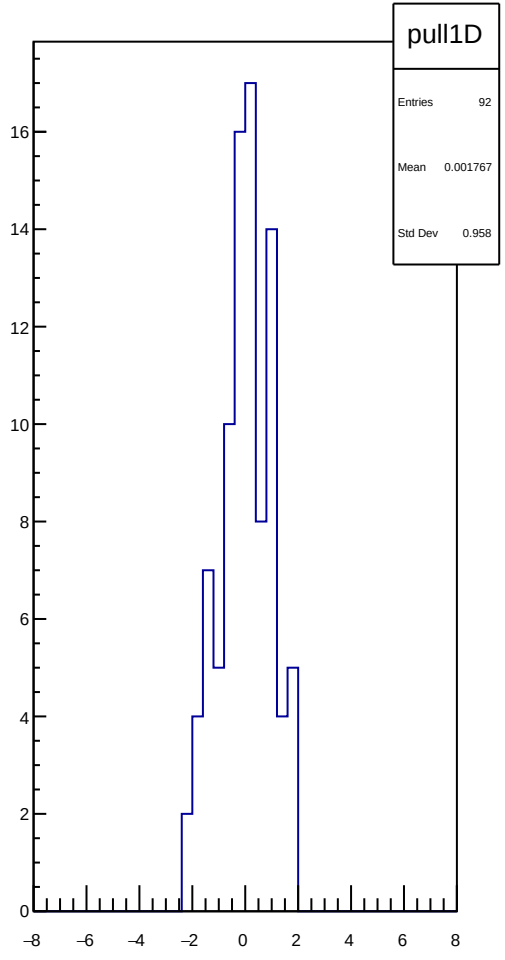

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.7 / 91
p0 −0.1495 ± 0.1082
pull
Entries 92
Mean −69.65
Std Dev 0
pull1D
Entries 92
Mean 0.03378
Std Dev 0.9646

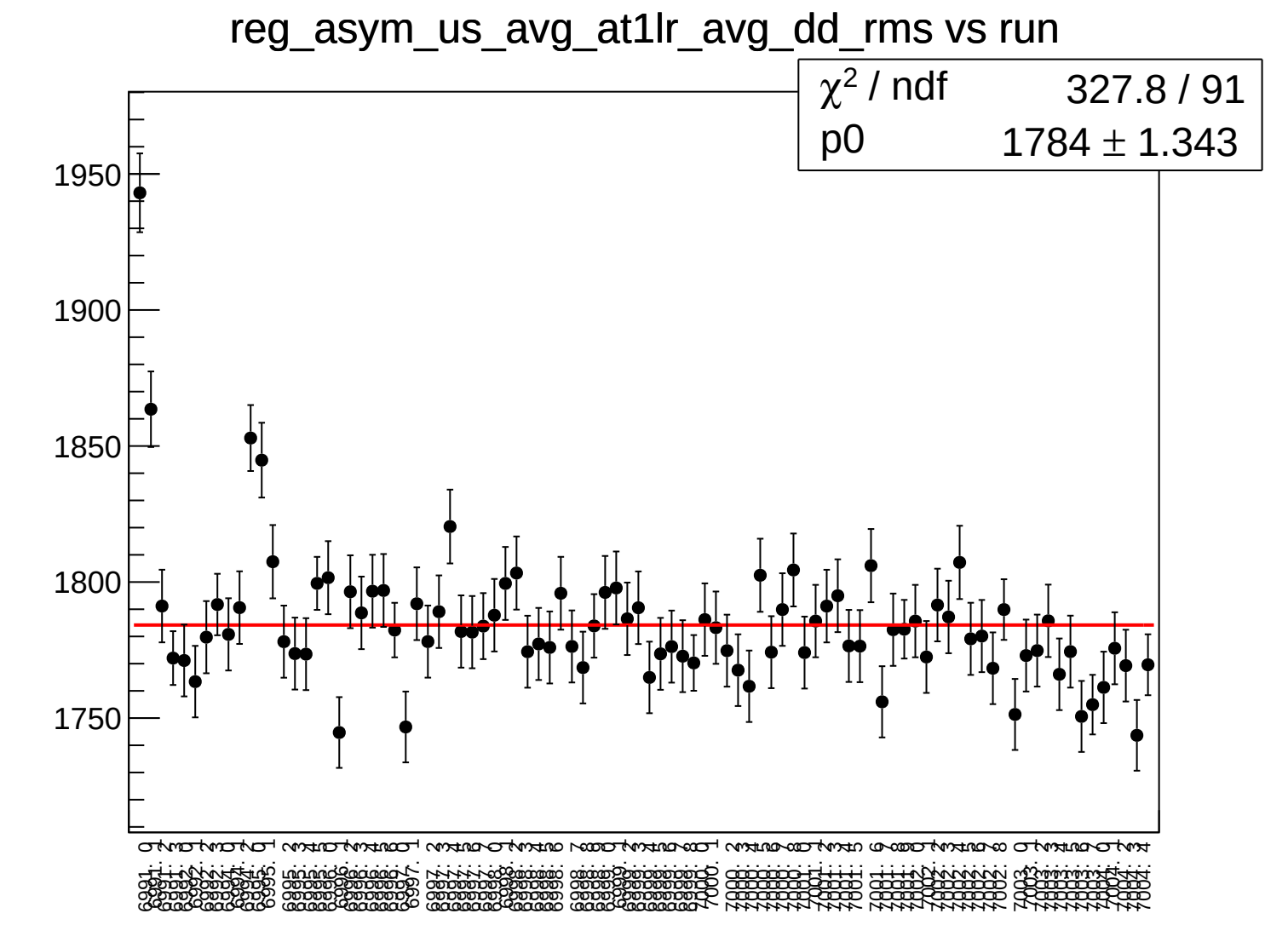

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.946e+05 / 91
p0 95.91 ± 0.07653
350
300
250
200
150
100
50

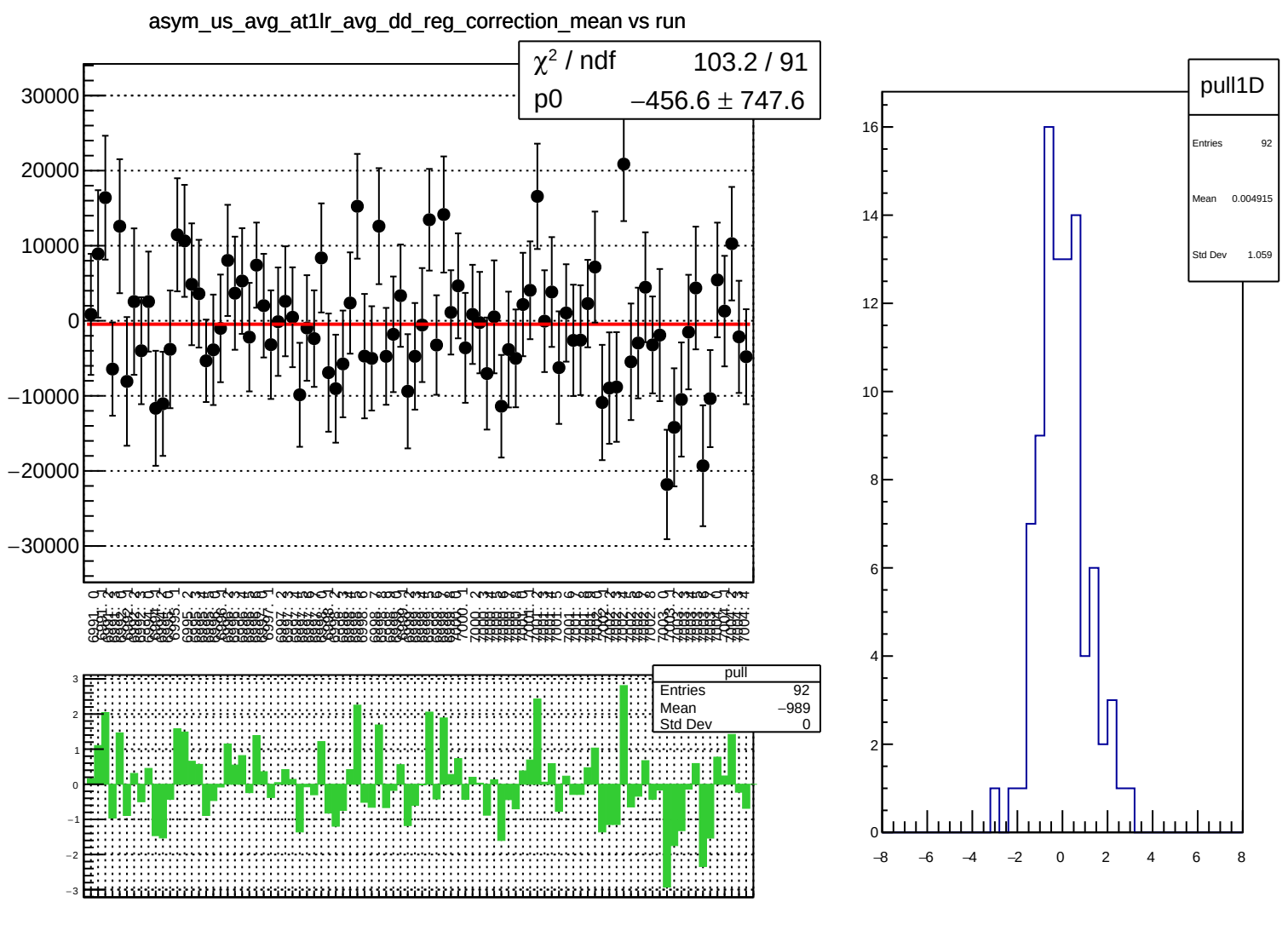

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.37 / 91
p0 5.758e−14 ± 2.746e−14
pull
Entries 92
Mean 99.1
Std Dev 0
pull1D
Entries 92
Mean 0.04145
Std Dev 0.9337

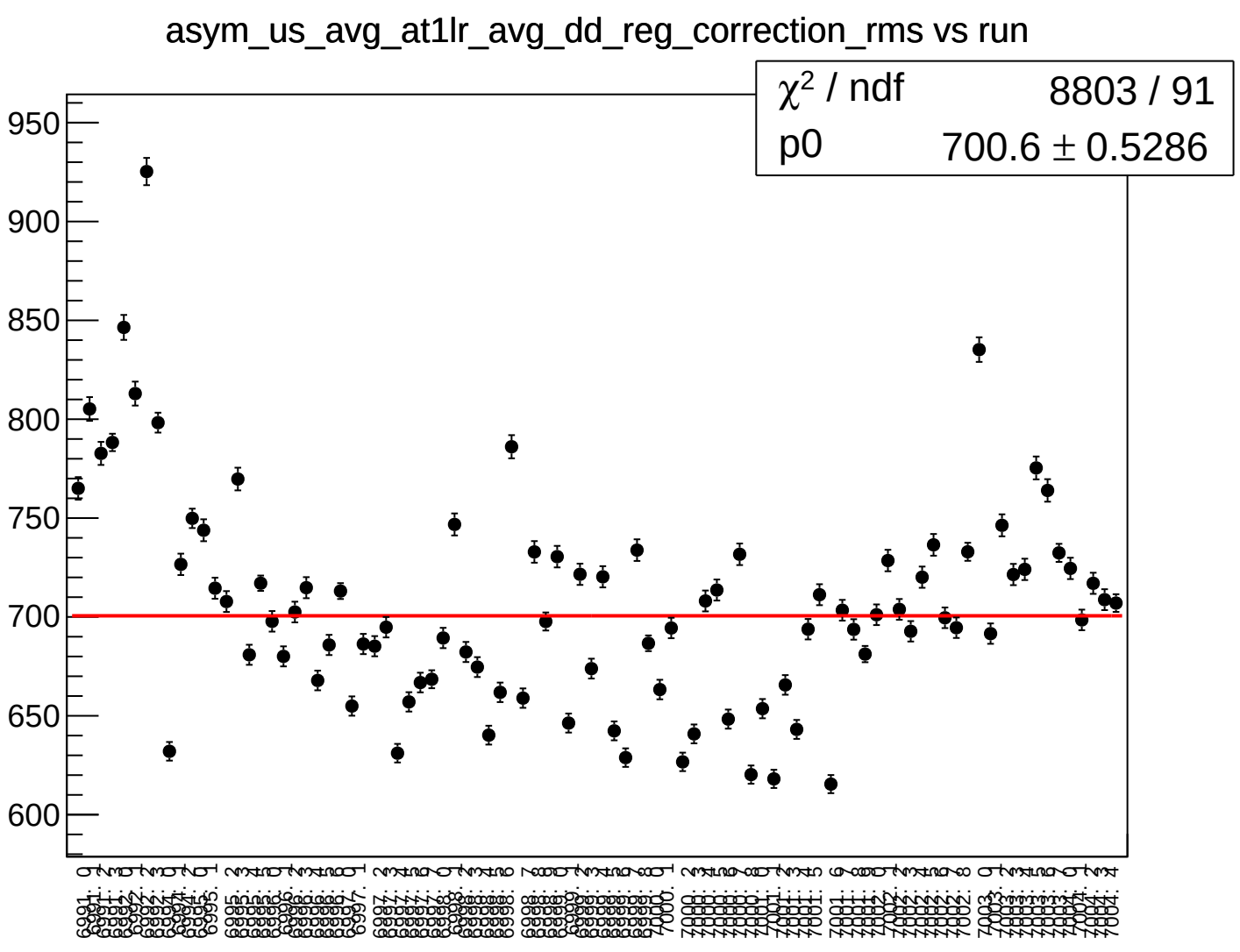

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.49e+05 / 91
p0 2.141e−11 ± 1.942e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

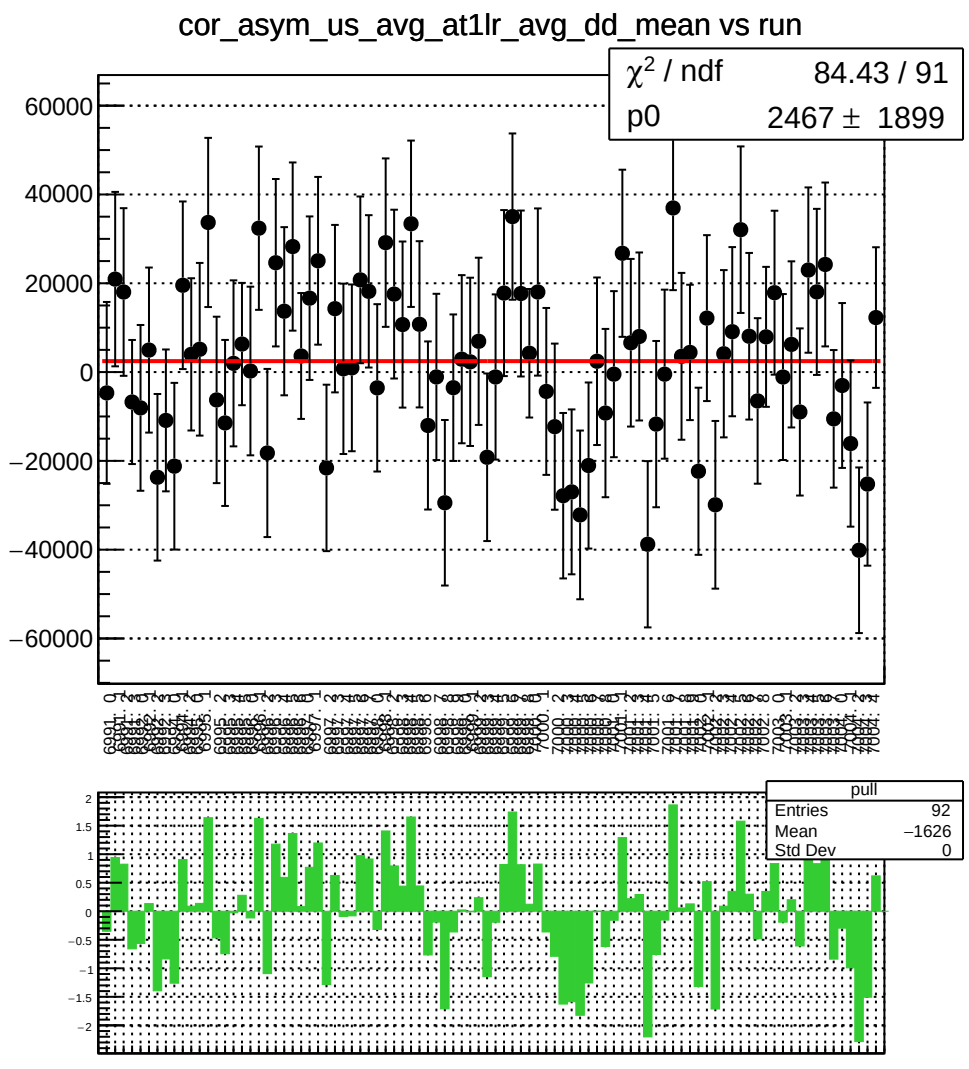

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.43 / 91
p0 2467 ± 1899
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1629
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

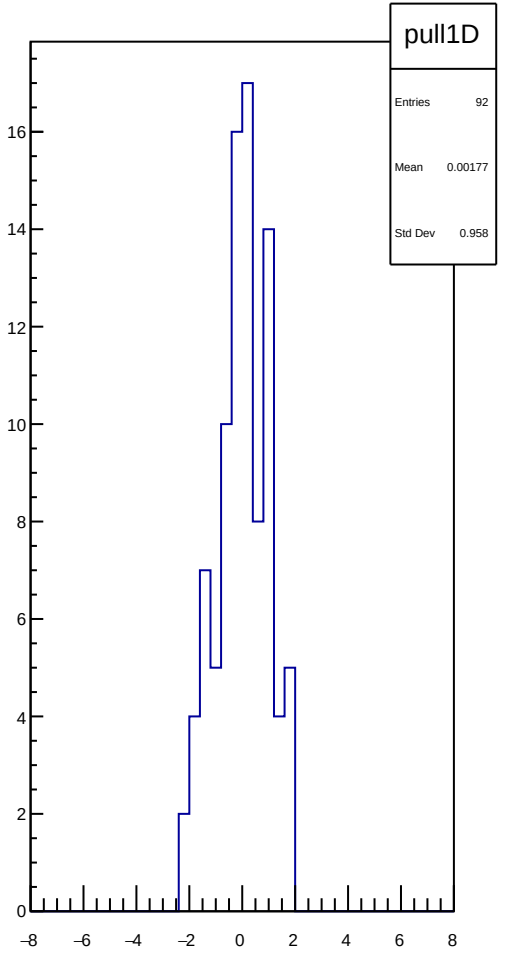

pull1D
Entries 92
Mean 0.001767
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

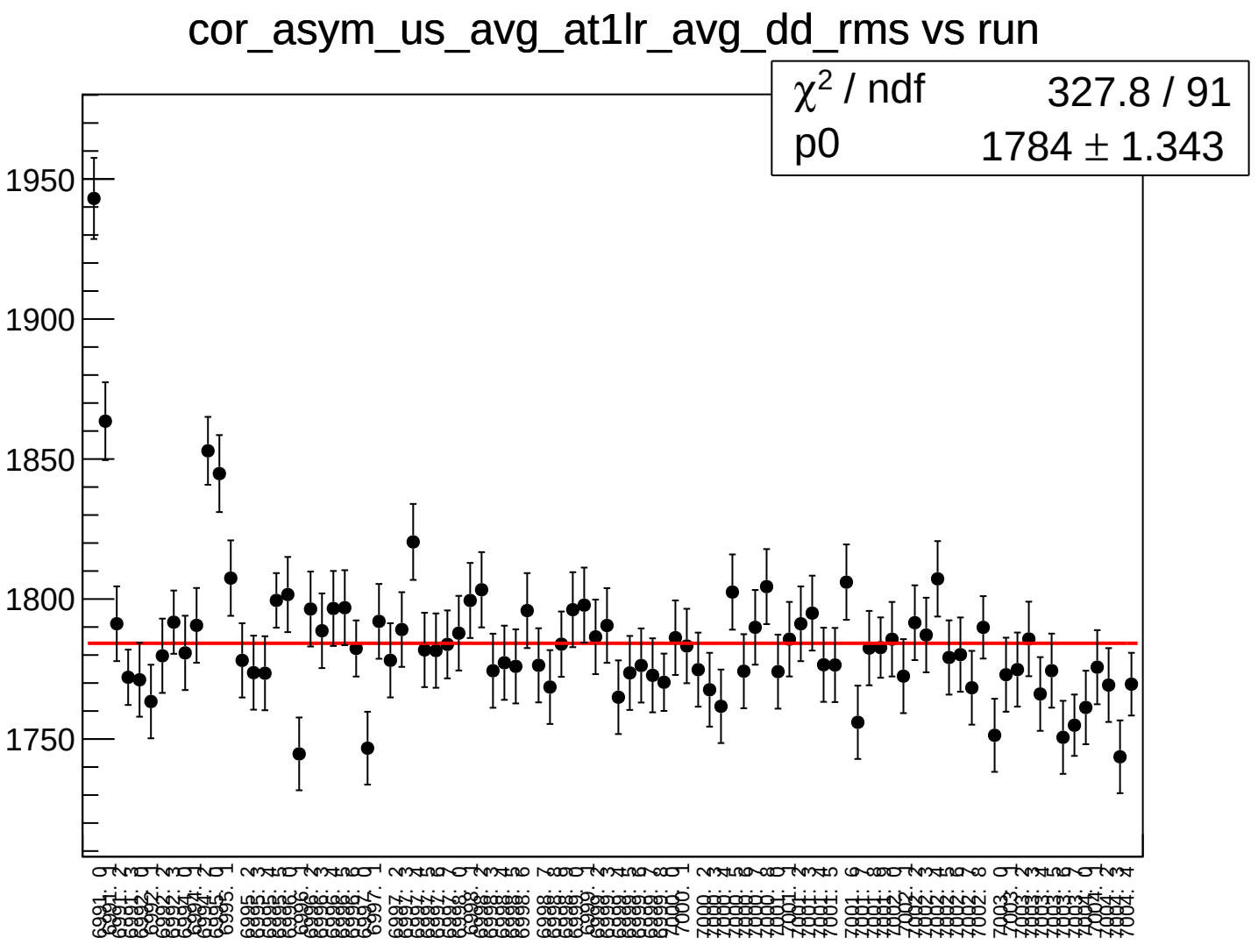

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 327.8 / 91
p0 1784 ± 1.343
1950
1900
1850
1800
1750

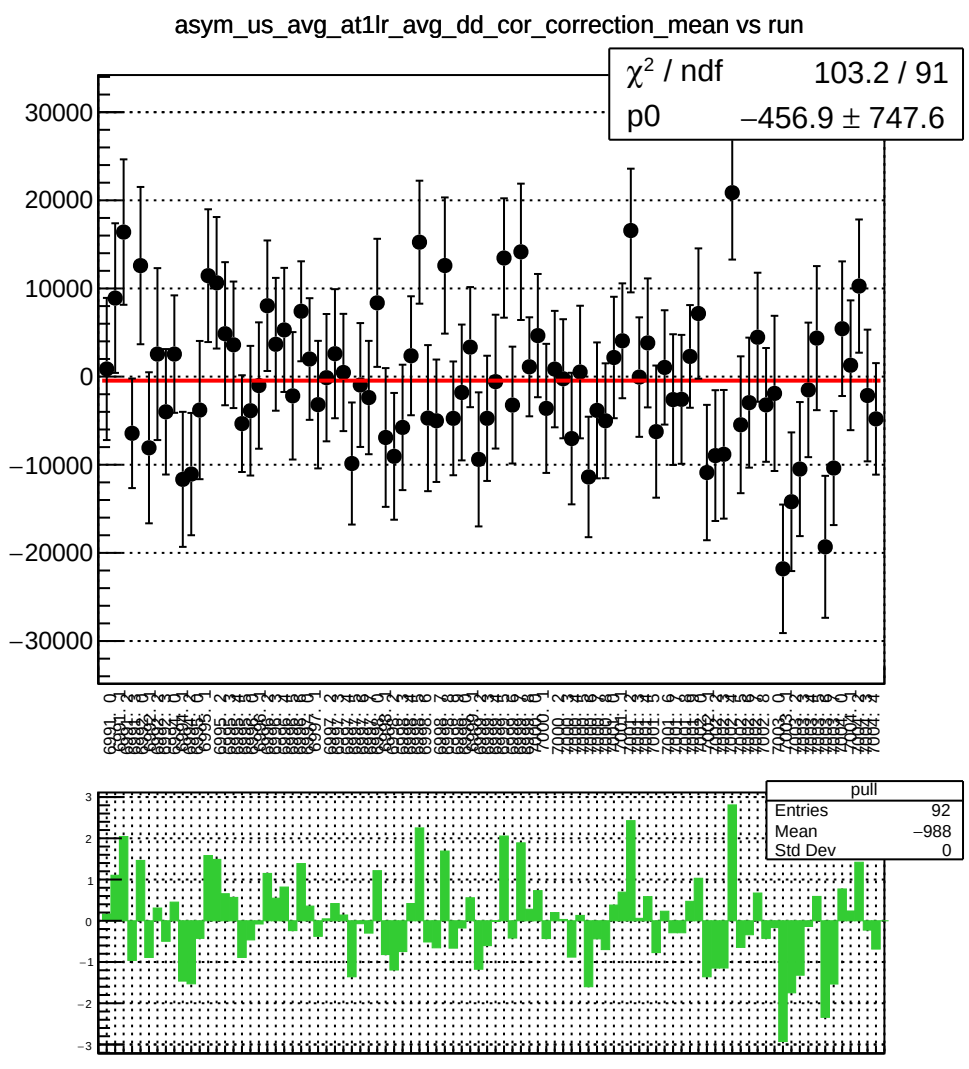

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 103.2 / 91
p0 −456.6 ± 747.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −989
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.004915
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

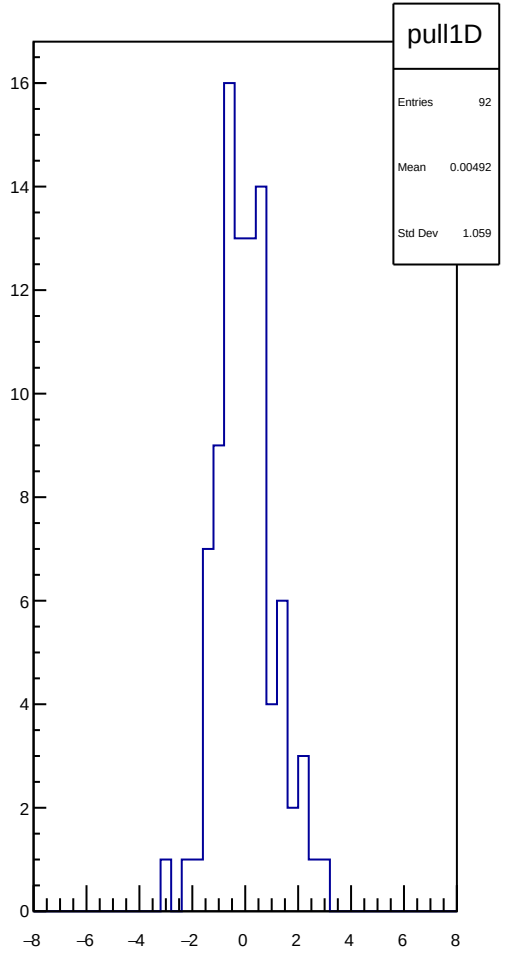

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 8803 / 91
p0 700.6 ± 0.5286
950
900
850
800
750
700
650
600

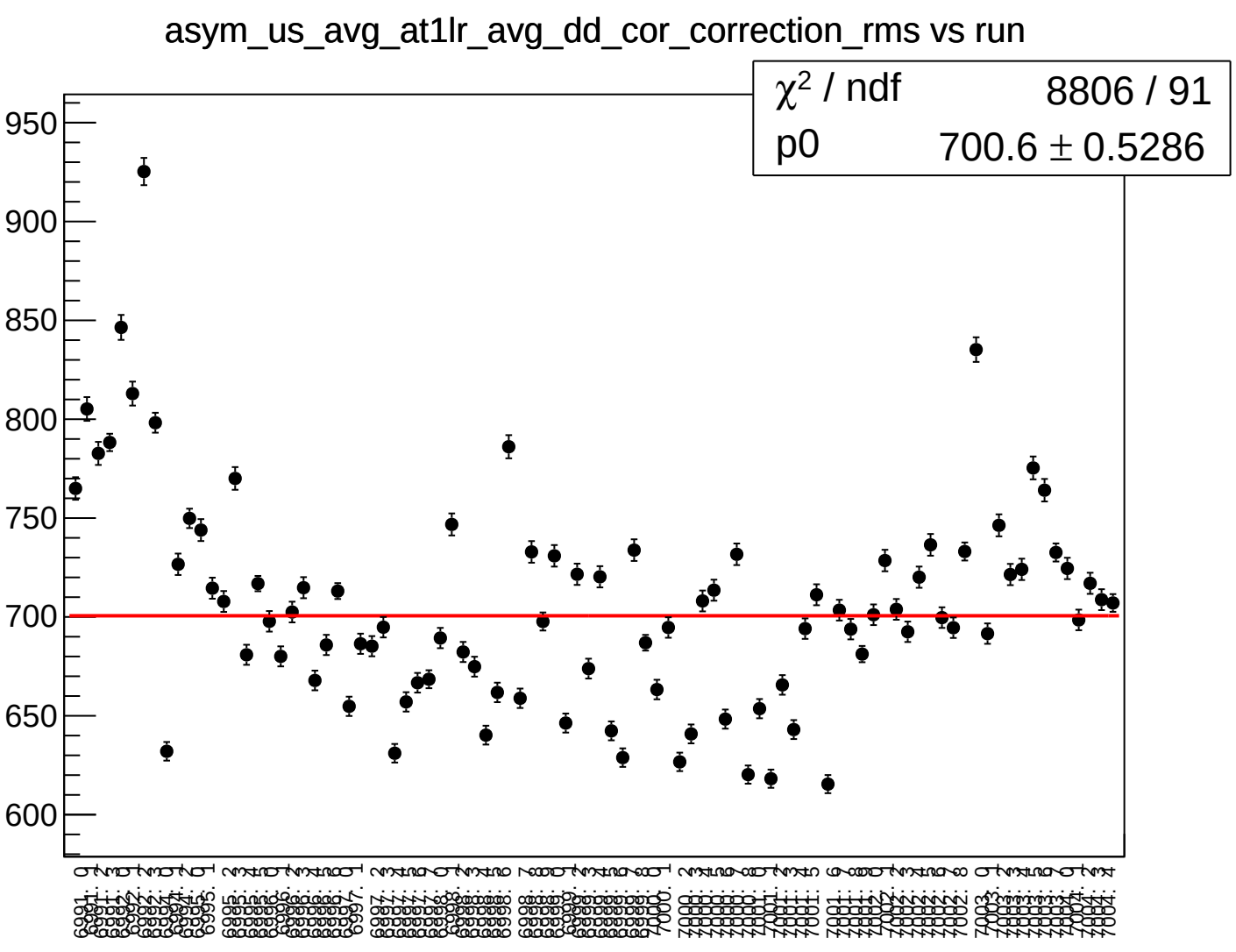

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.43 / 91
p0 2467 ± 1899
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1626
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

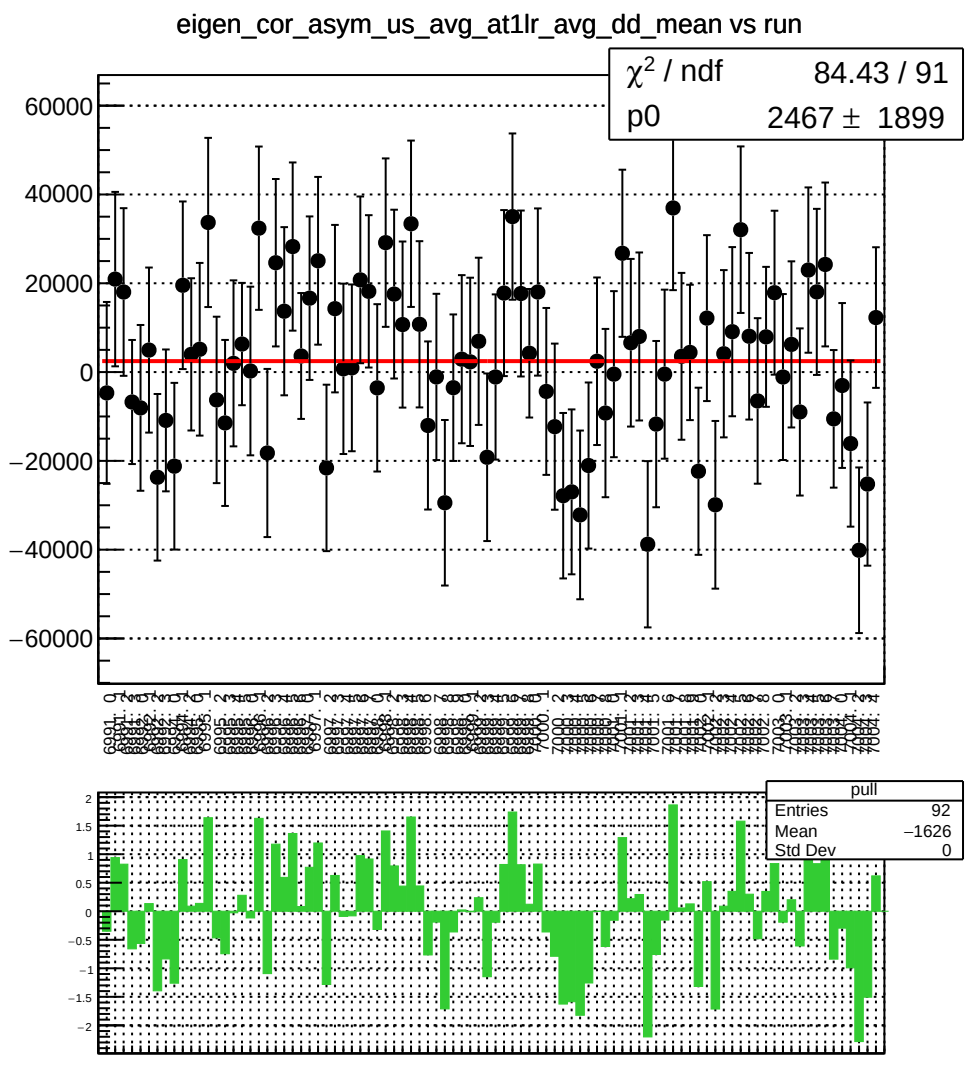

pull1D
Entries 92
Mean 0.00177
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

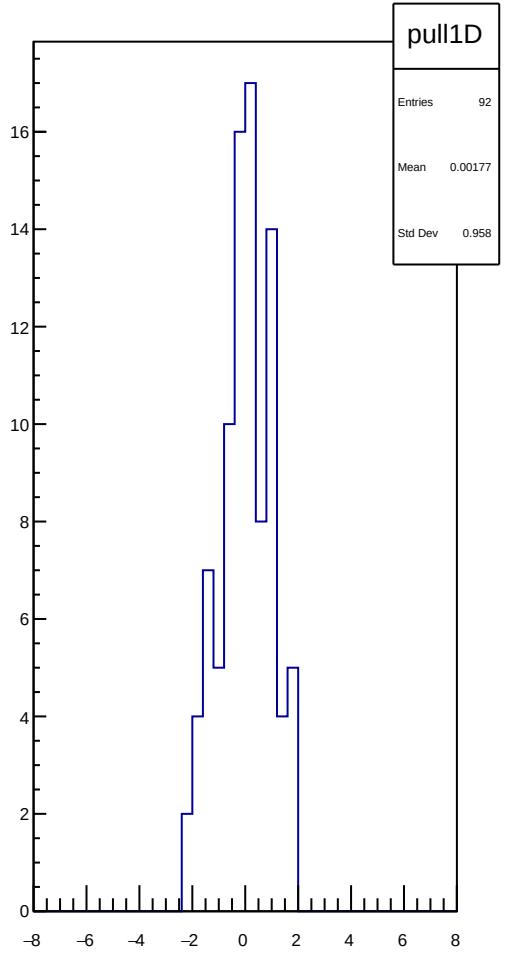

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 327.8 / 91
p0 1784 ± 1.343
1950
1900
1850
1800
1750

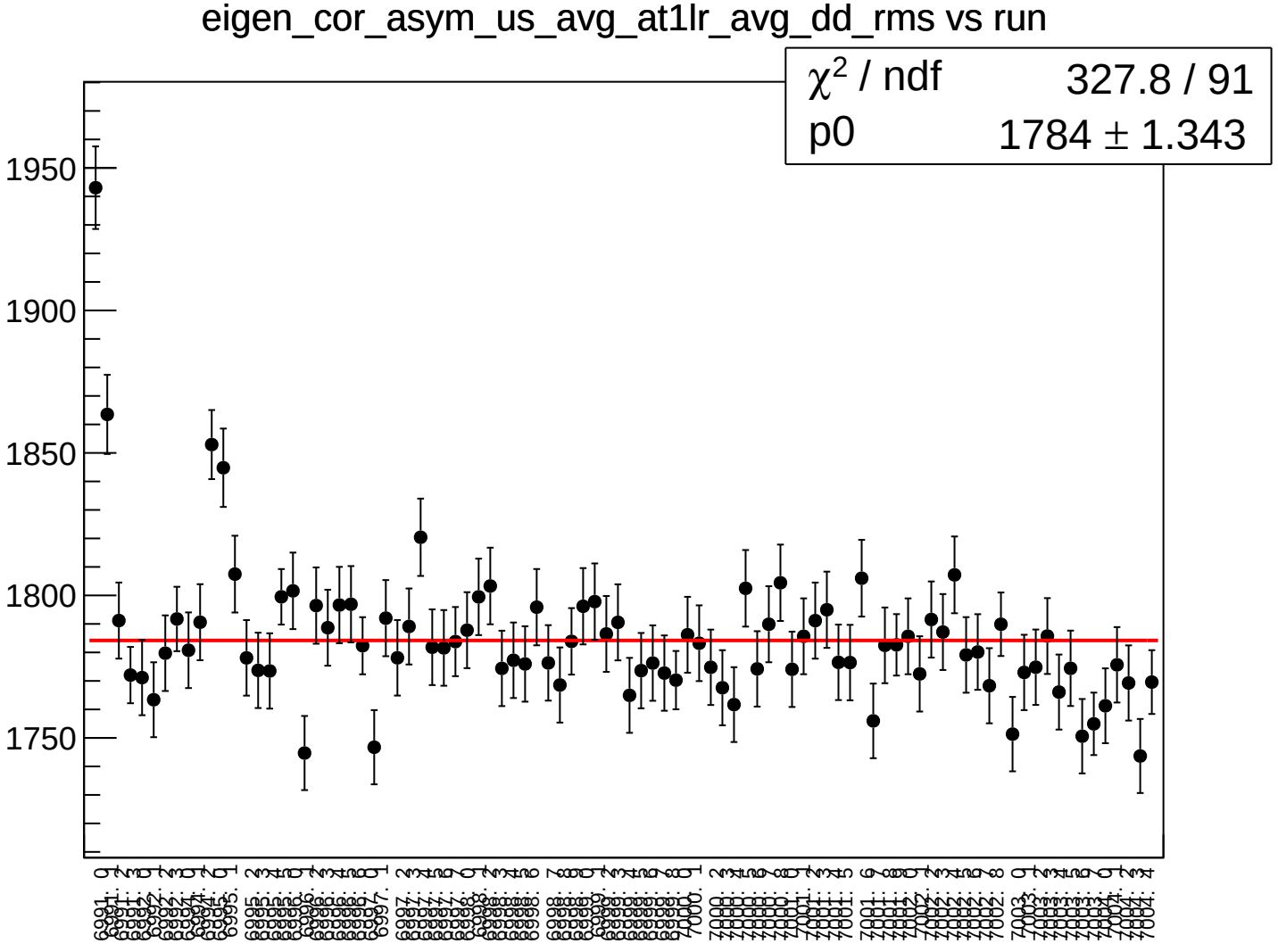

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 103.2 / 91
p0 −456.9 ± 747.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −988
Std Dev 0
3
2
1
0
−1
−2
−3

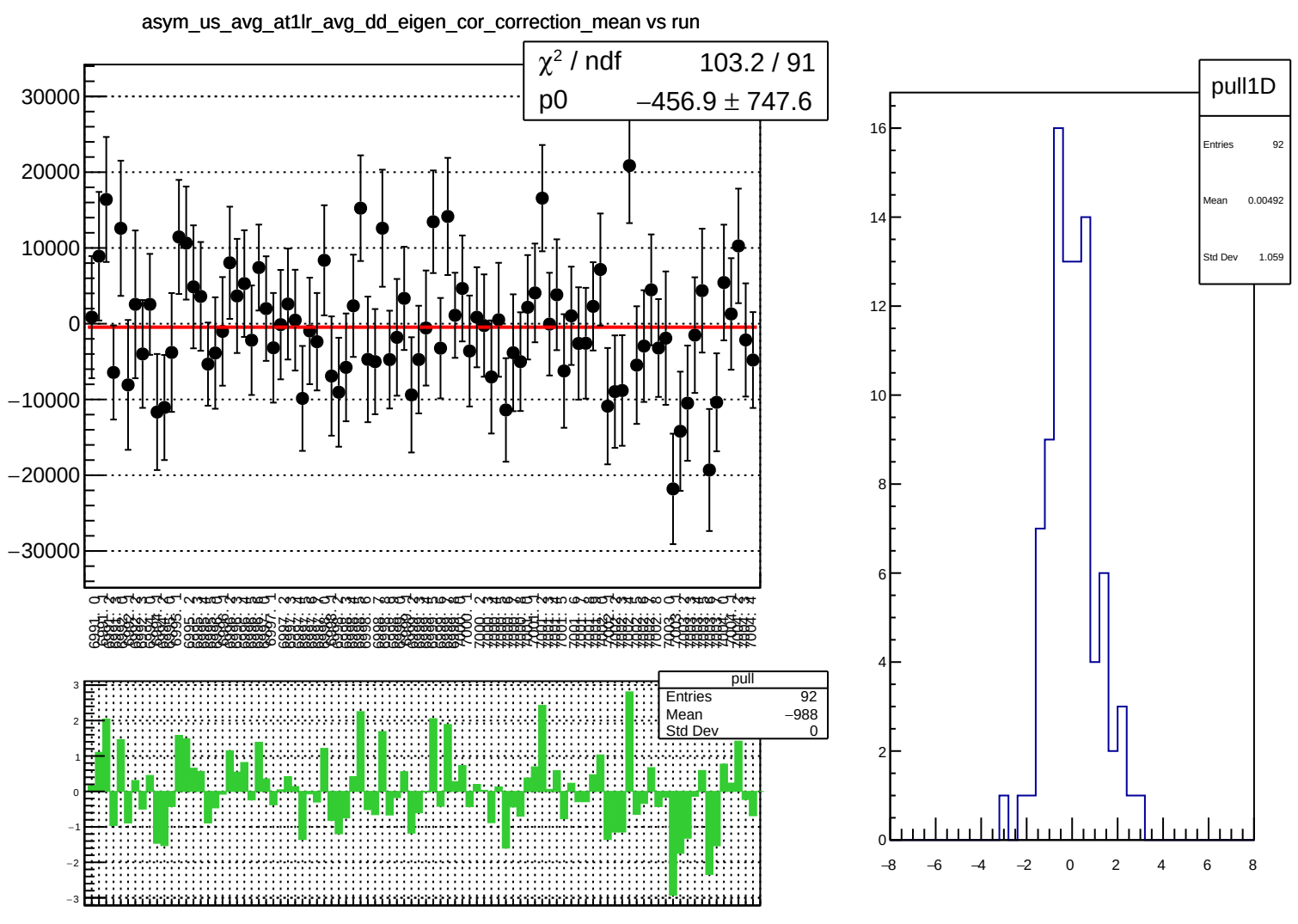

pull1D
Entries 92
Mean 0.00492
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

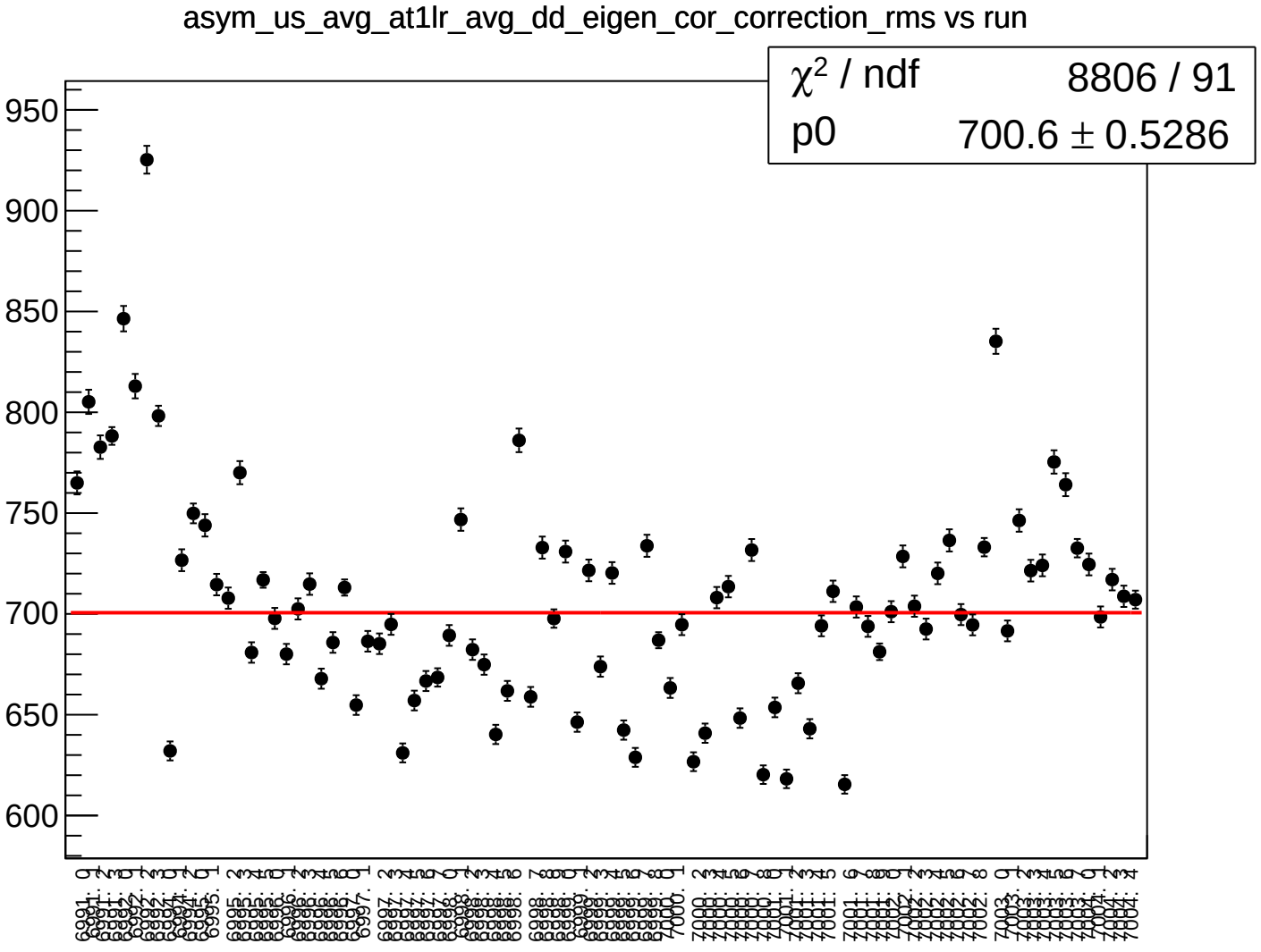

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 8806 / 91
p0 700.6 ± 0.5286
950
900
850
800
750
700
650
600

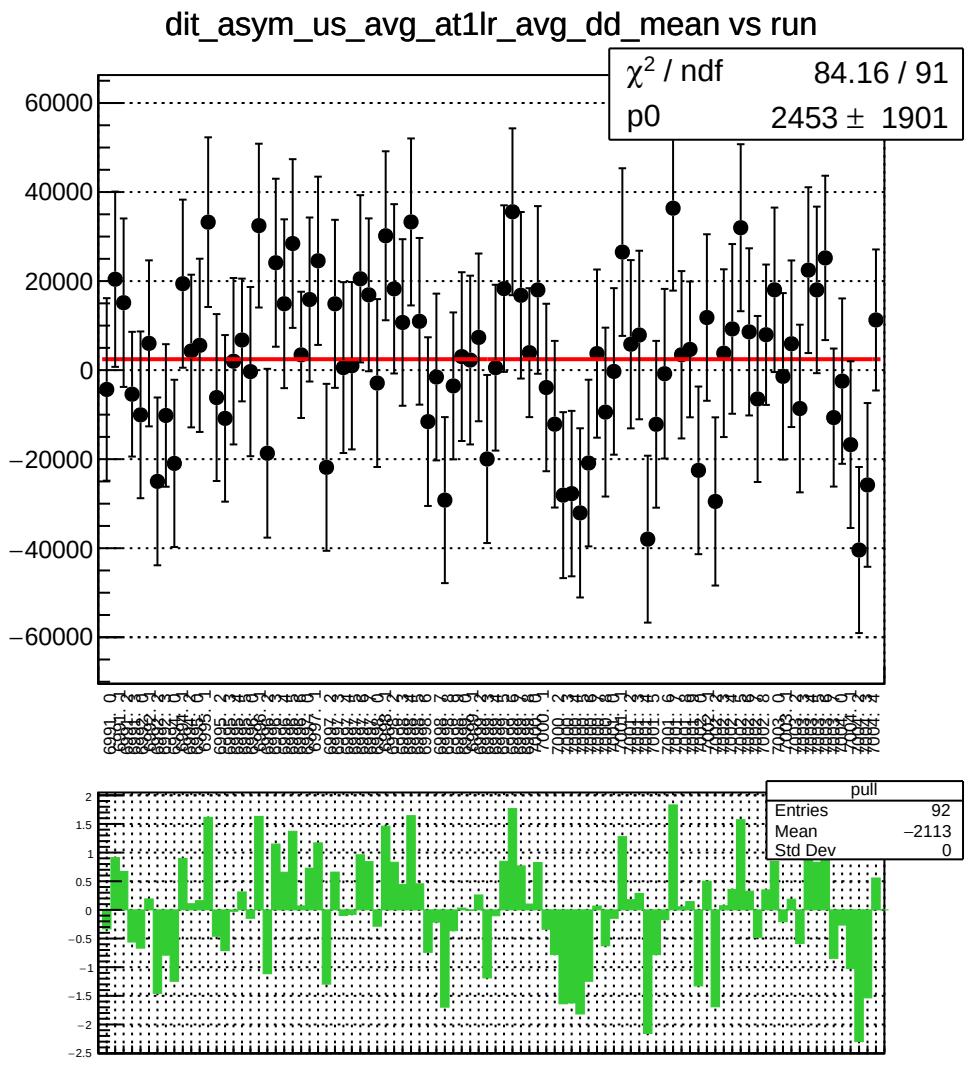

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.43 / 91
p0 2467 ± 1899
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1626
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

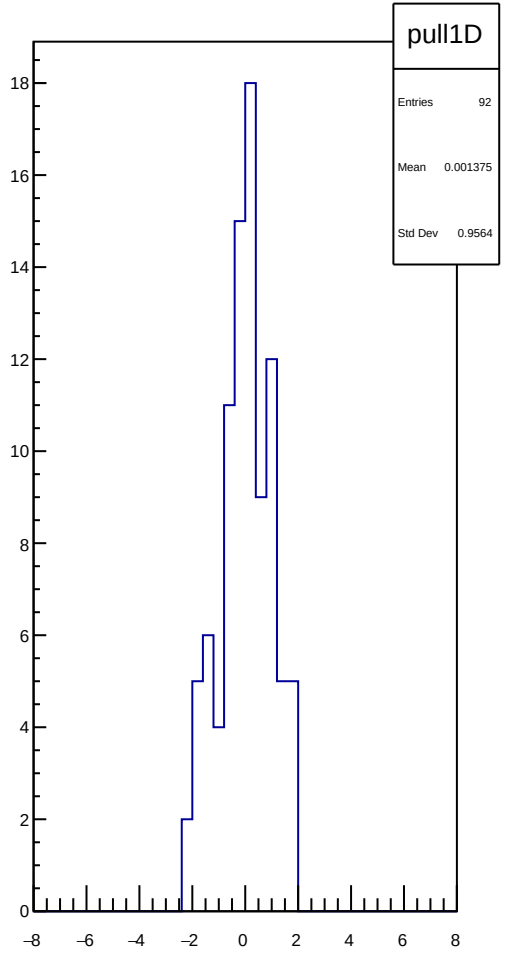

pull1D
Entries 92
Mean 0.00177
Std Dev 0.958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

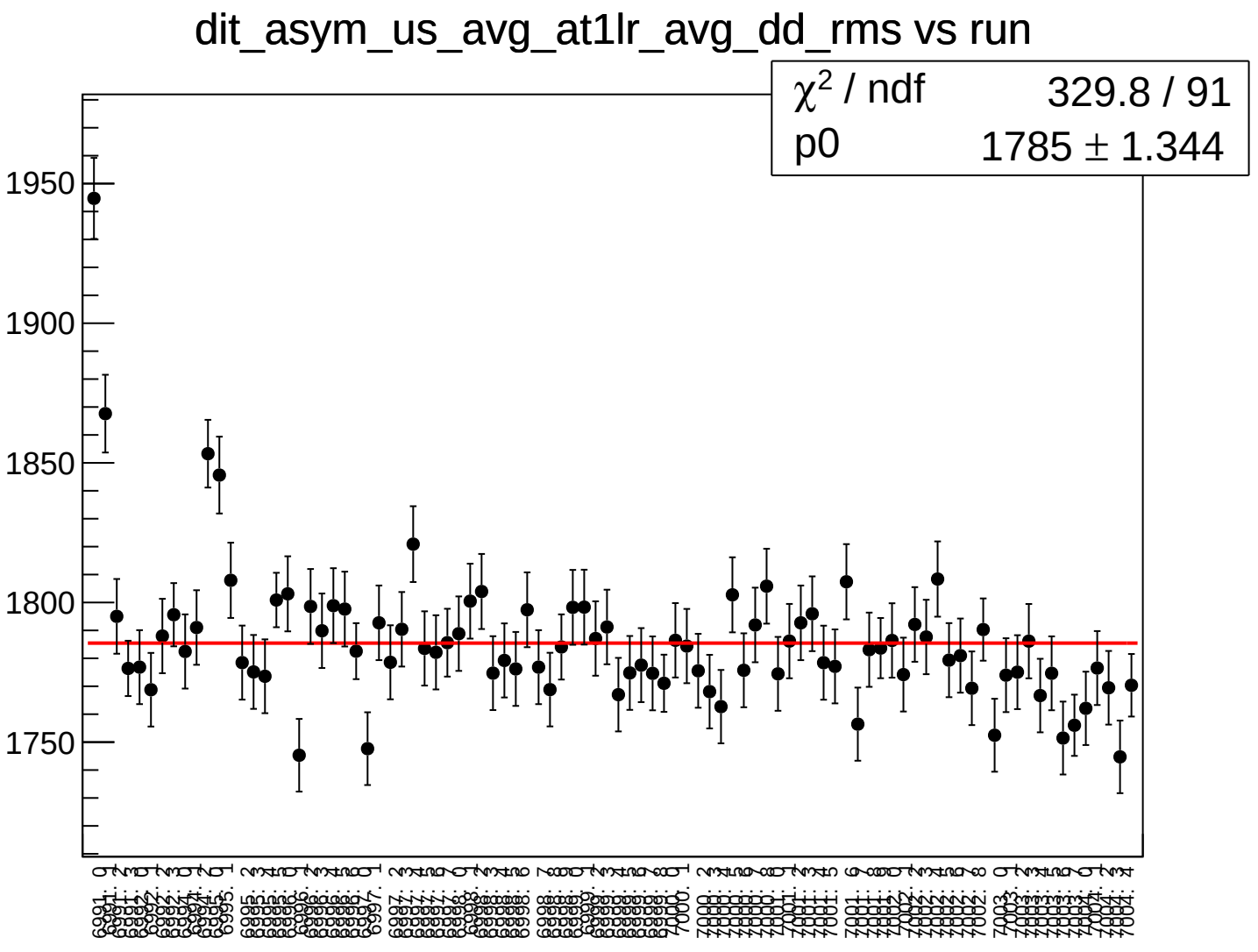

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 327.8 / 91
p0 1784 ± 1.343
1950
1900
1850
1800
1750

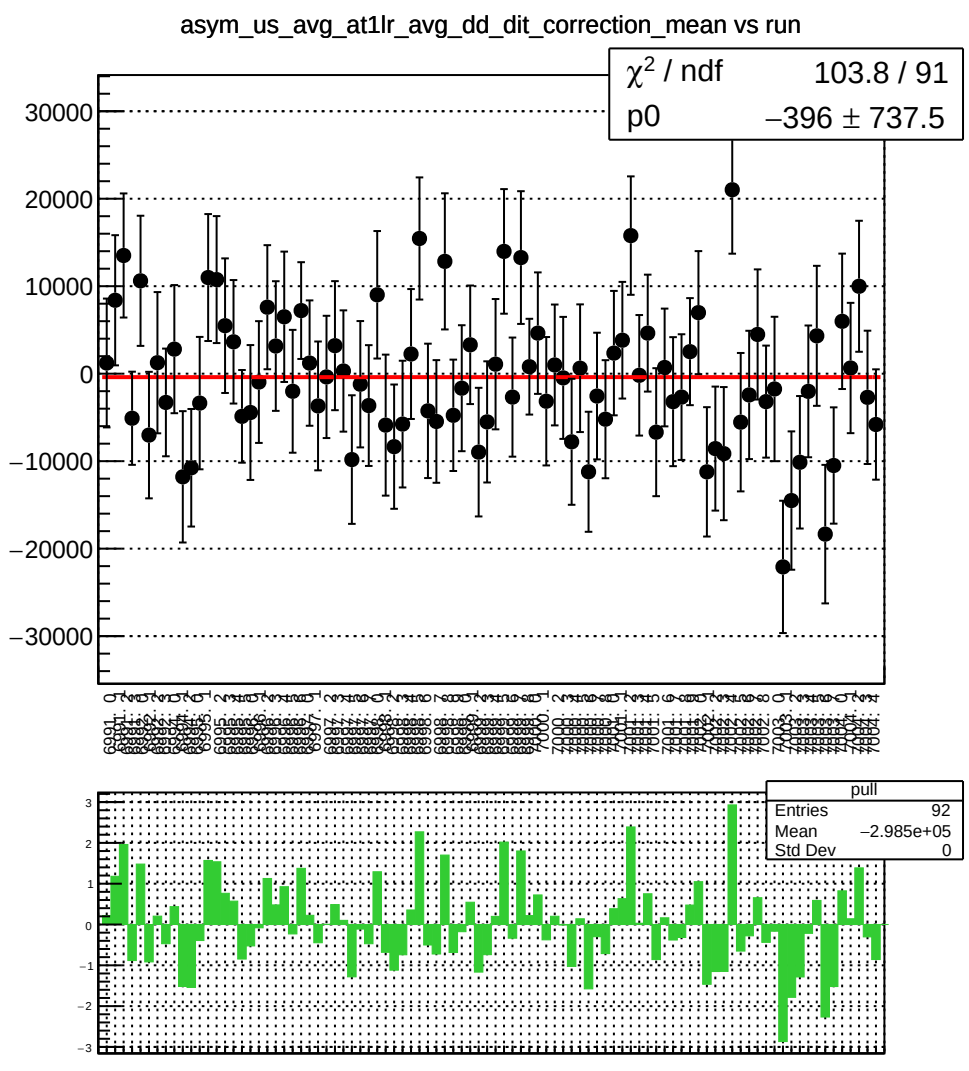

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 103.2 / 91
p0 −456.9 ± 747.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −988
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.00492
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

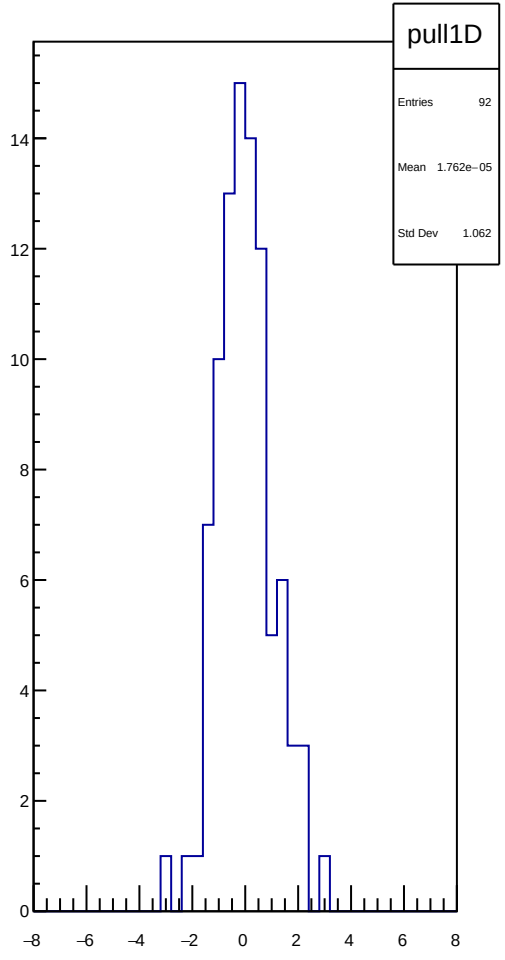

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8806 / 91
p0 700.6 ± 0.5286
950
900
850
800
750
700
650
600

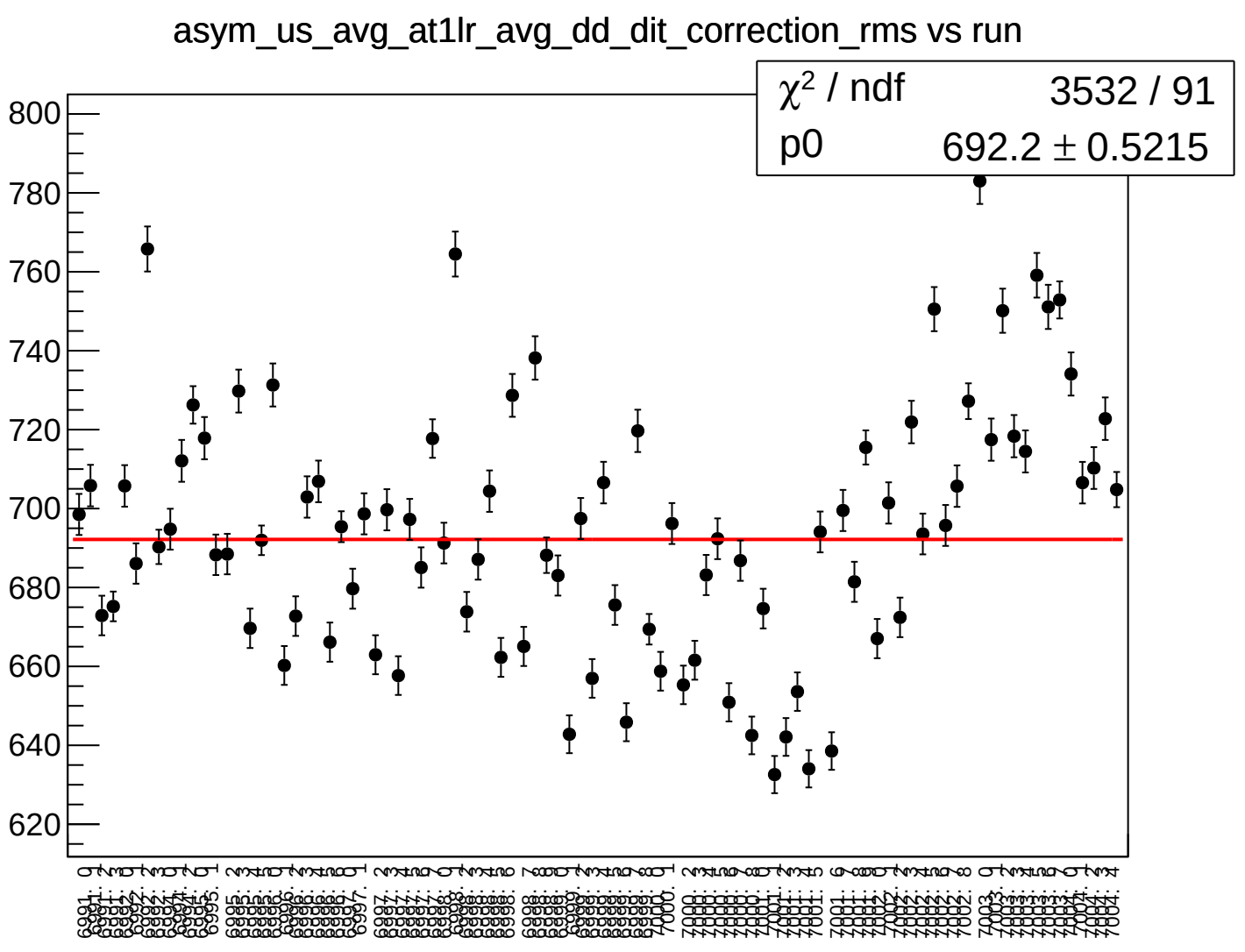

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.16 / 91
p0 2453 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2113
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

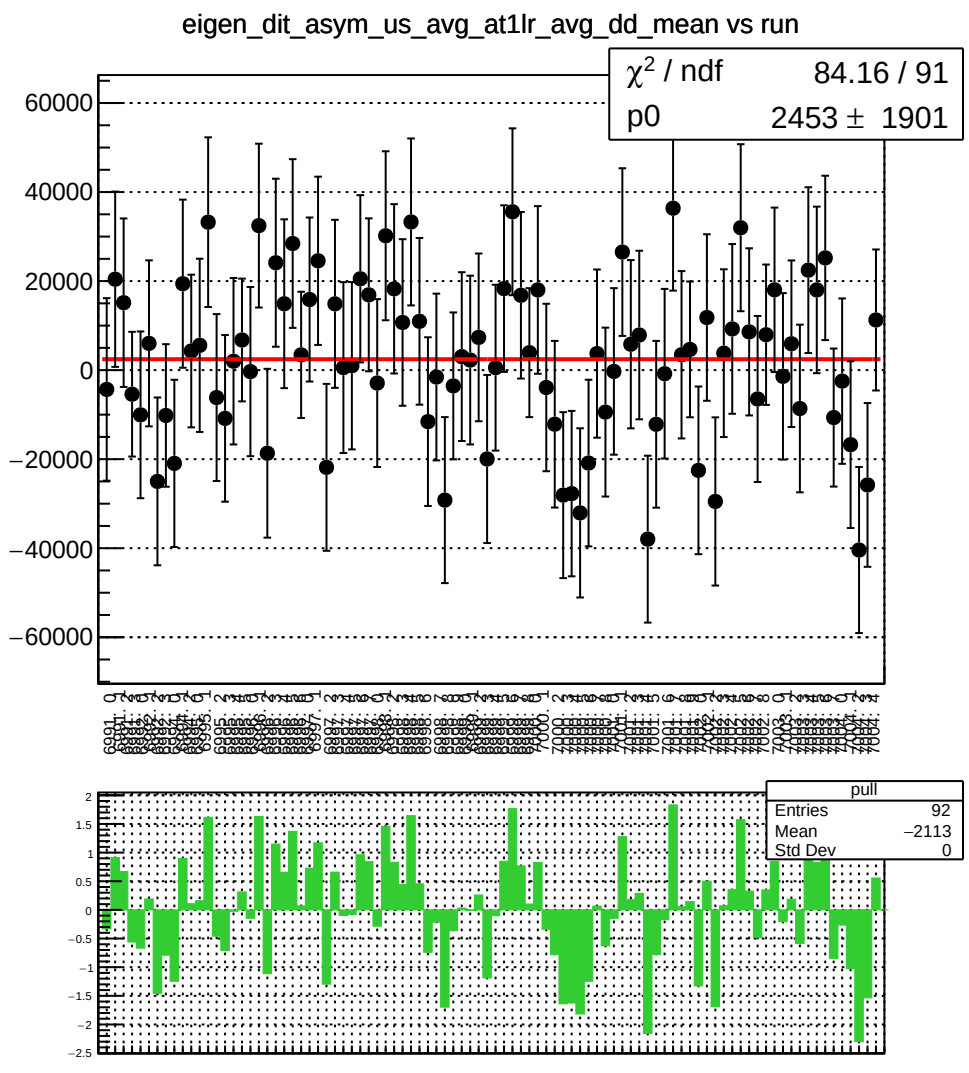

pull1D
Entries 92
Mean 0.001375
Std Dev 0.9564
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

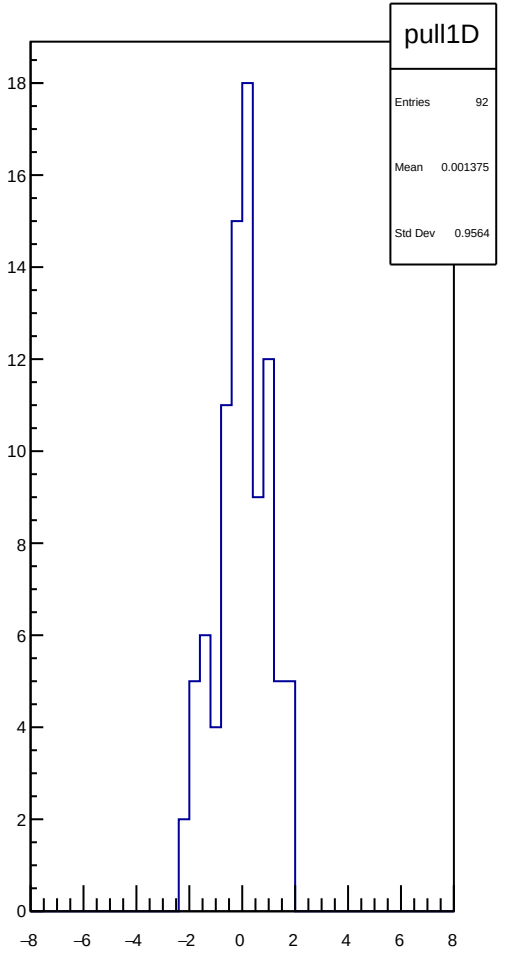

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 329.8 / 91
p0 1785 ± 1.344
1950
1900
1850
1800
1750

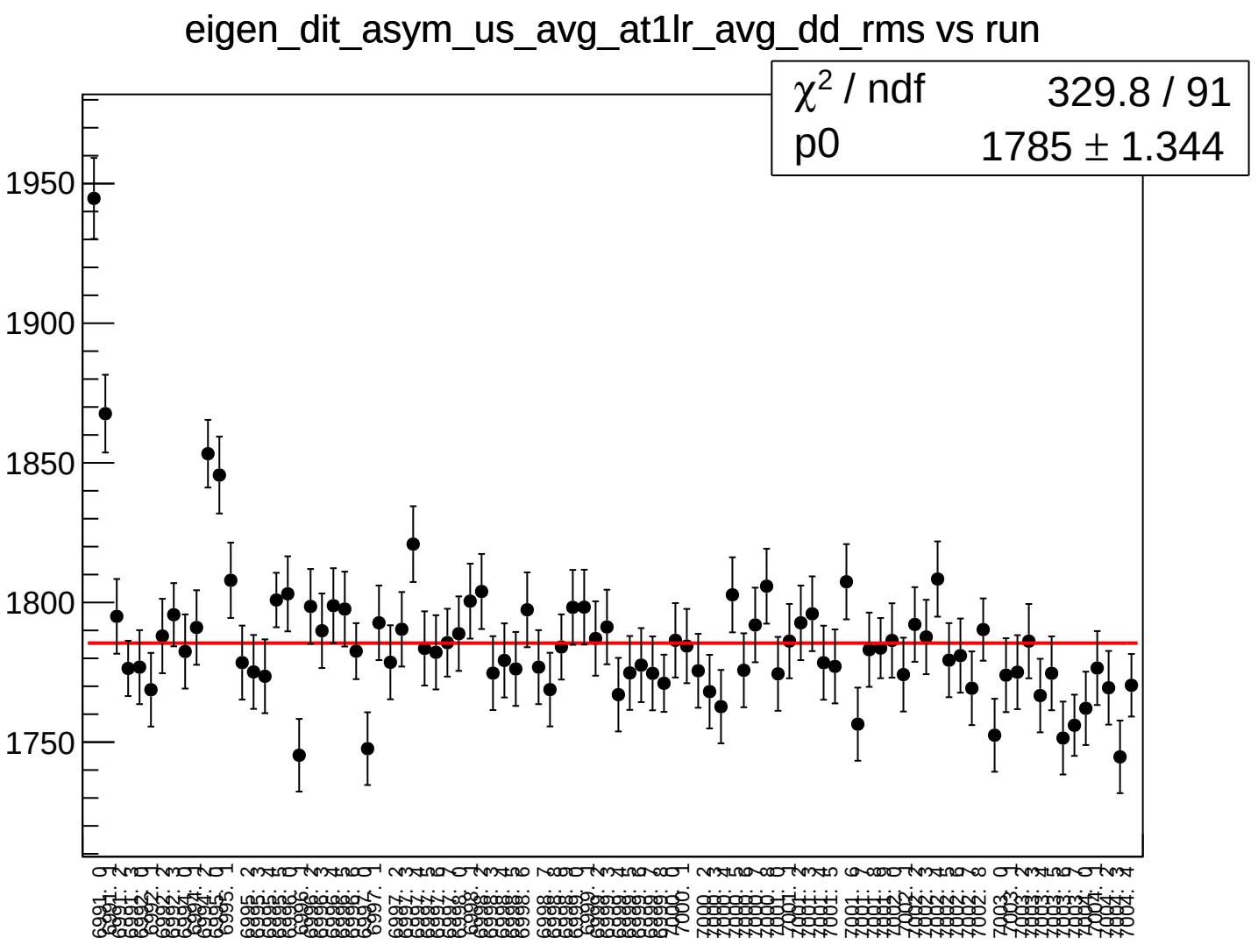

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 103.8 / 91
p0 −396 ± 737.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −2.985e+05
Std Dev 0
3
2
1
0
−1
−2
−3

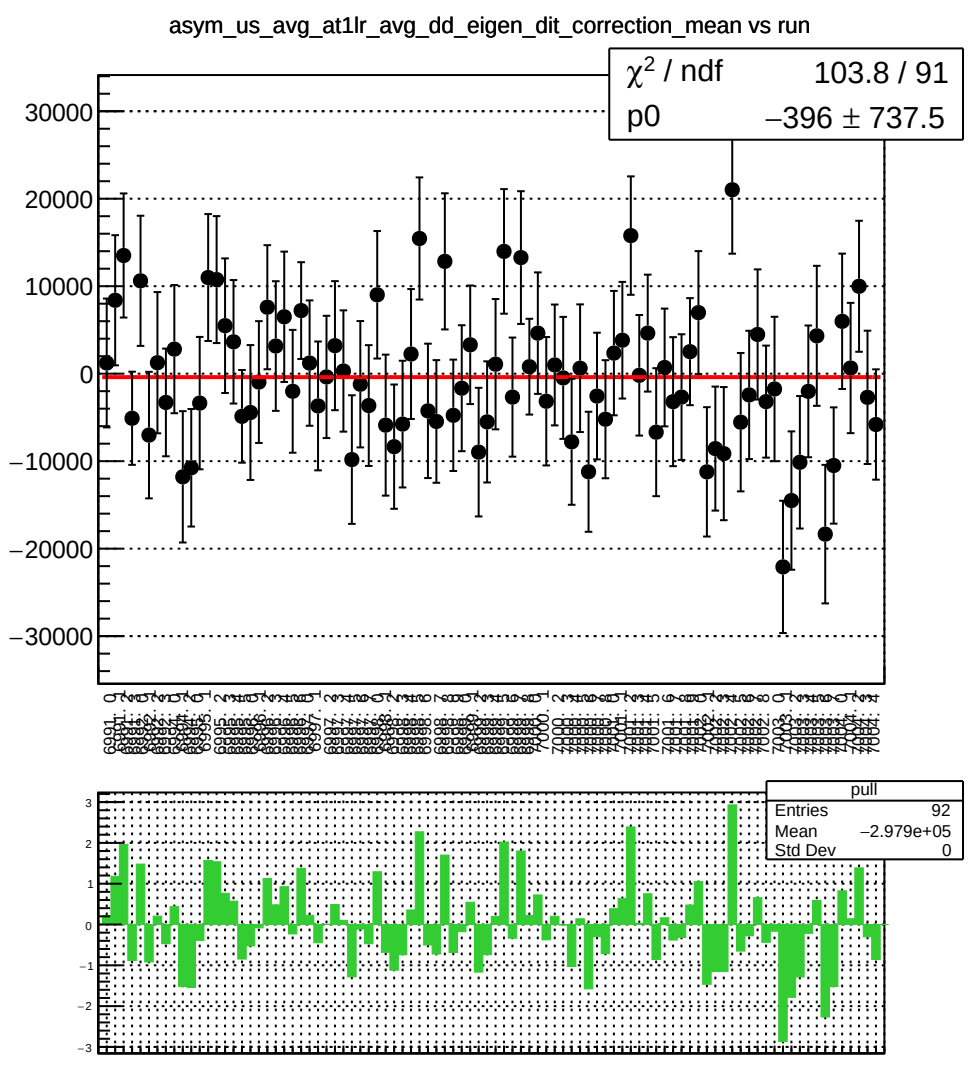

pull1D
Entries 92
Mean 1.762e−05
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

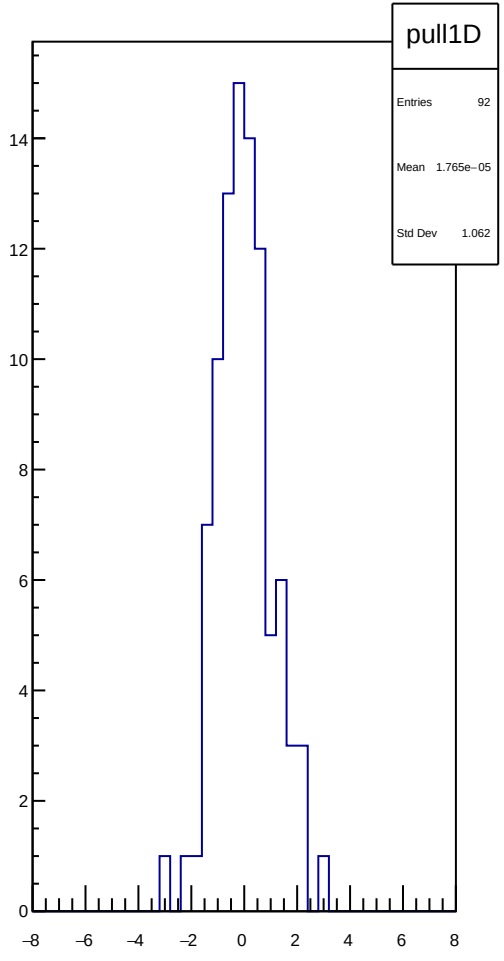

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3532 / 91
p0 692.2 ± 0.5215
800
780
760
740
720
700
680
660
640
620

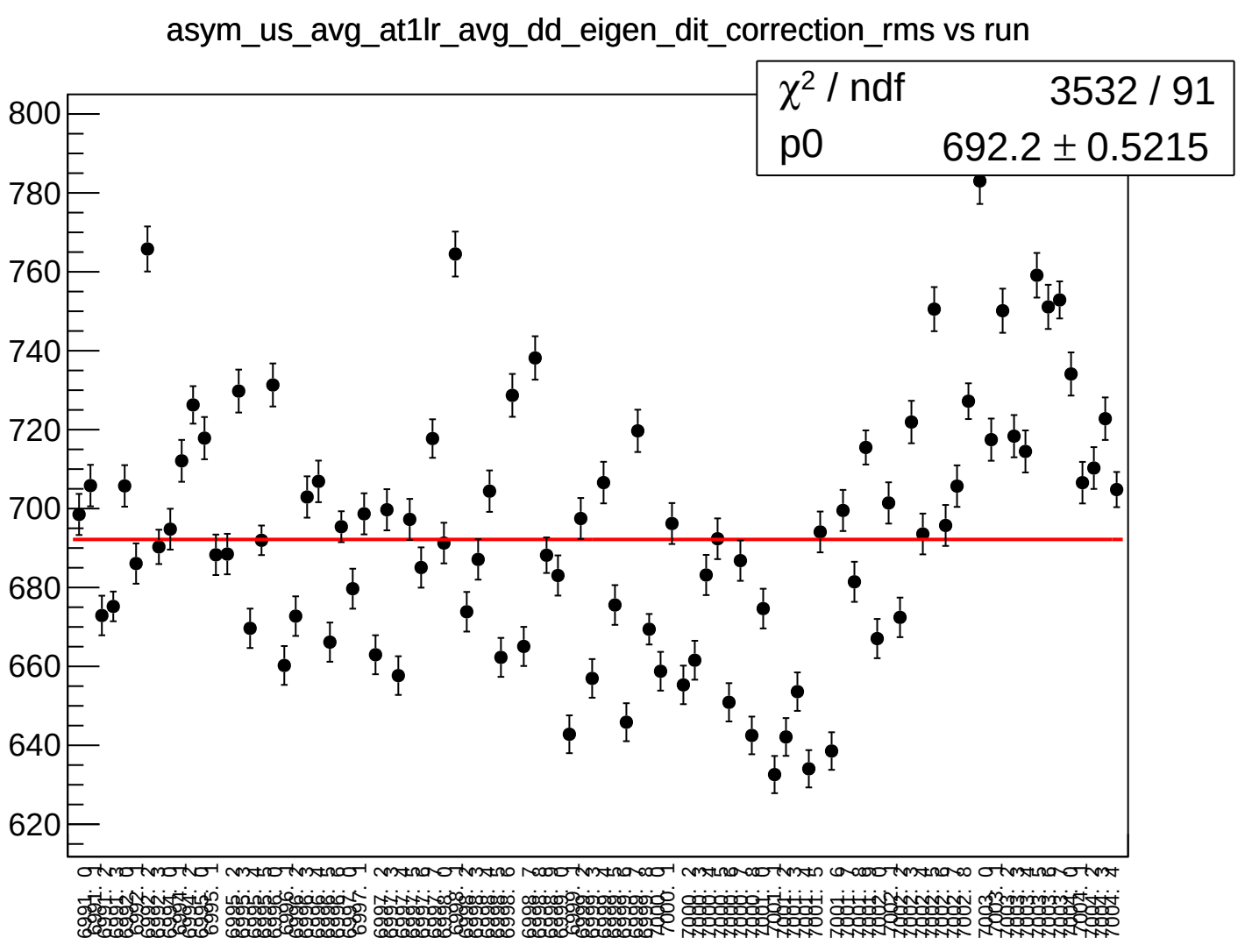

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 84.16 / 91
p0 2453 ± 1901
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2113
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

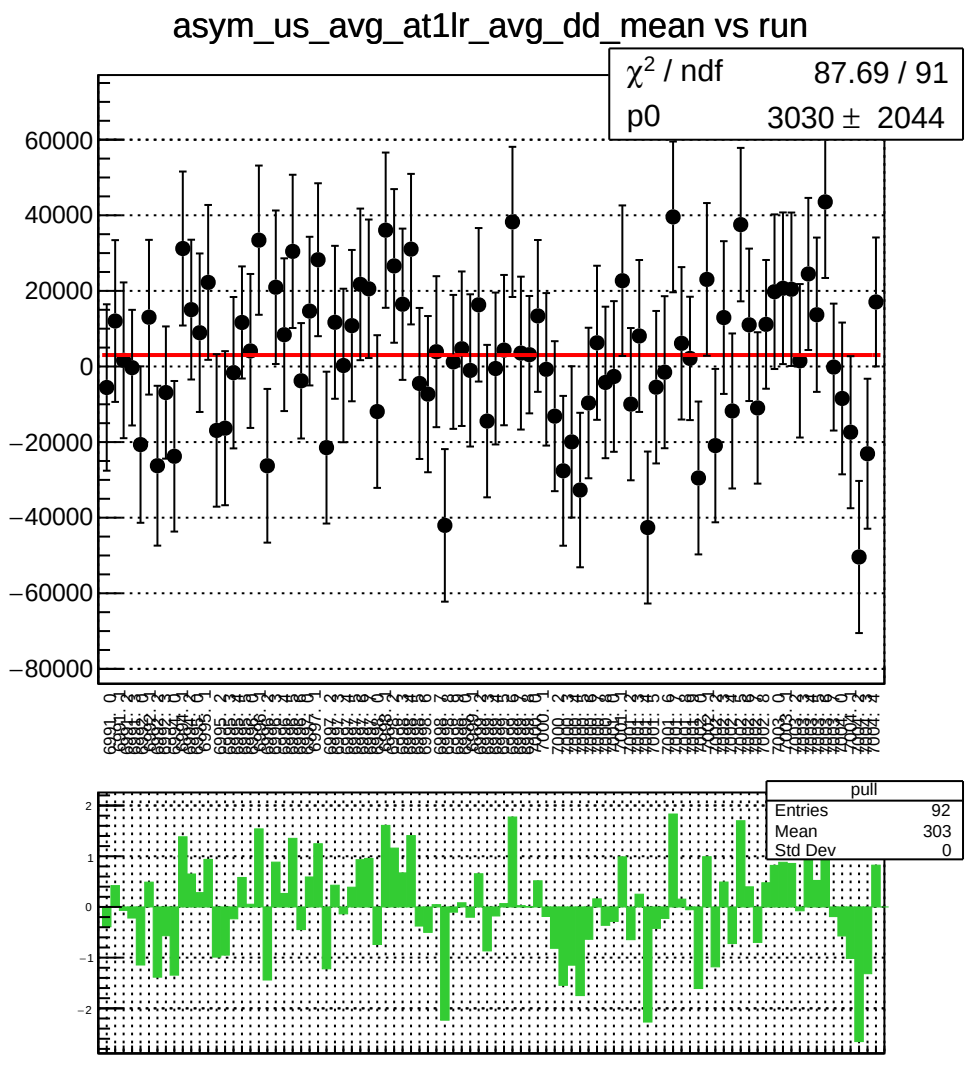

pull1D
Entries 92
Mean 0.001375
Std Dev 0.9564
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

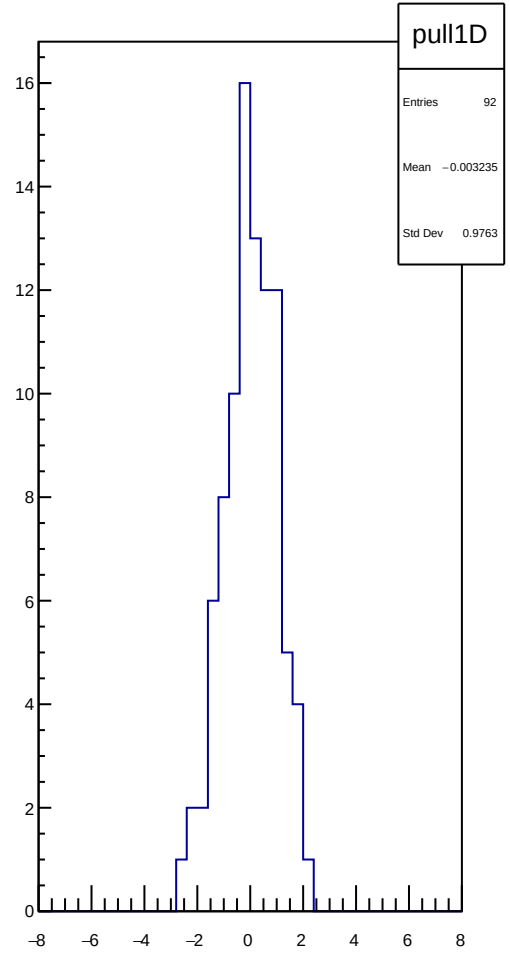

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 329.8 / 91
p0 1785 ± 1.344
1950
1900
1850
1800
1750

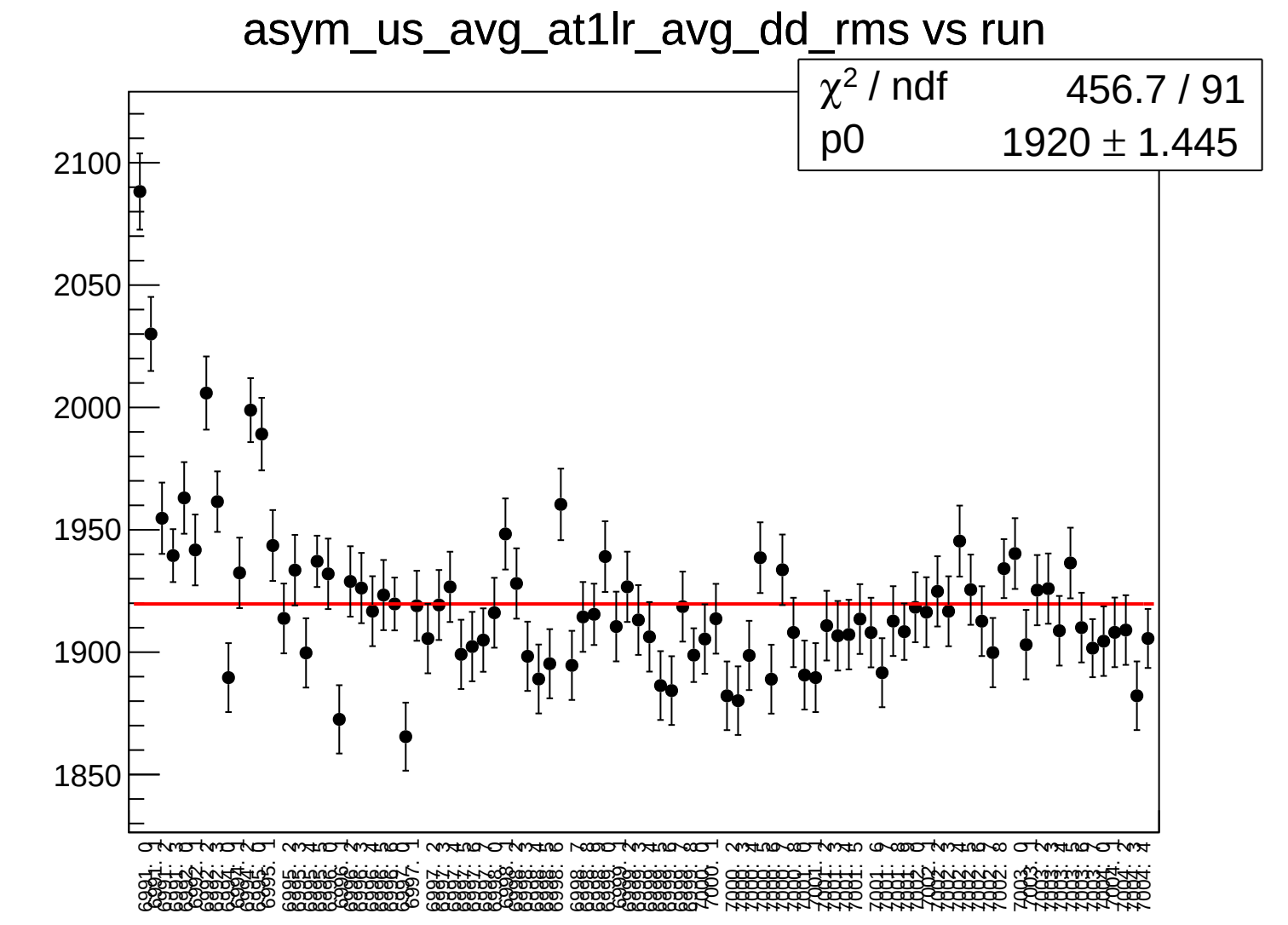

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.8 / 91
p0 −396 ± 737.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −2.979e+05
Std Dev 0
3
2
1
0
−1
−2
−3

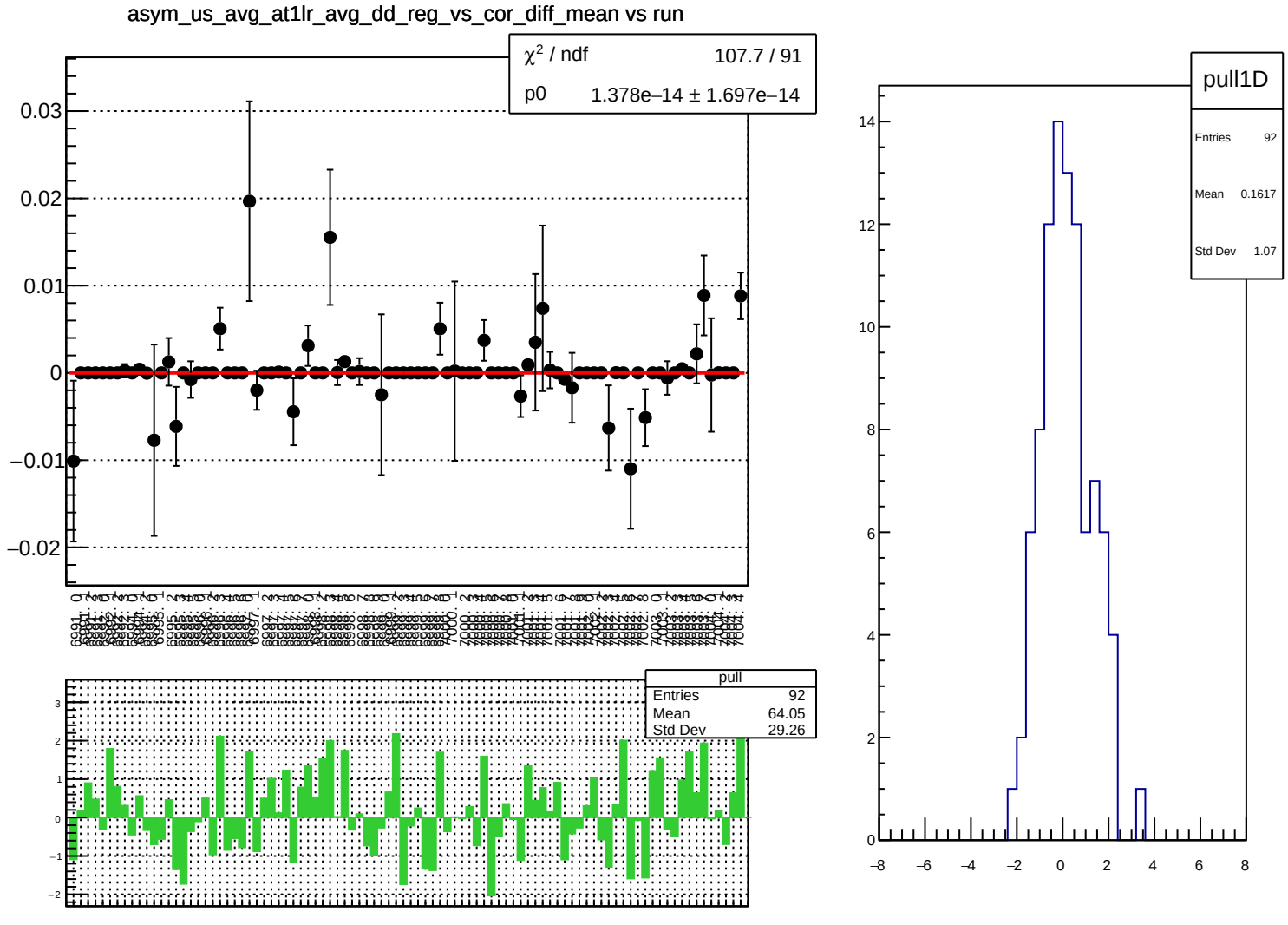

pull1D
Entries 92
Mean 1.765e−05
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

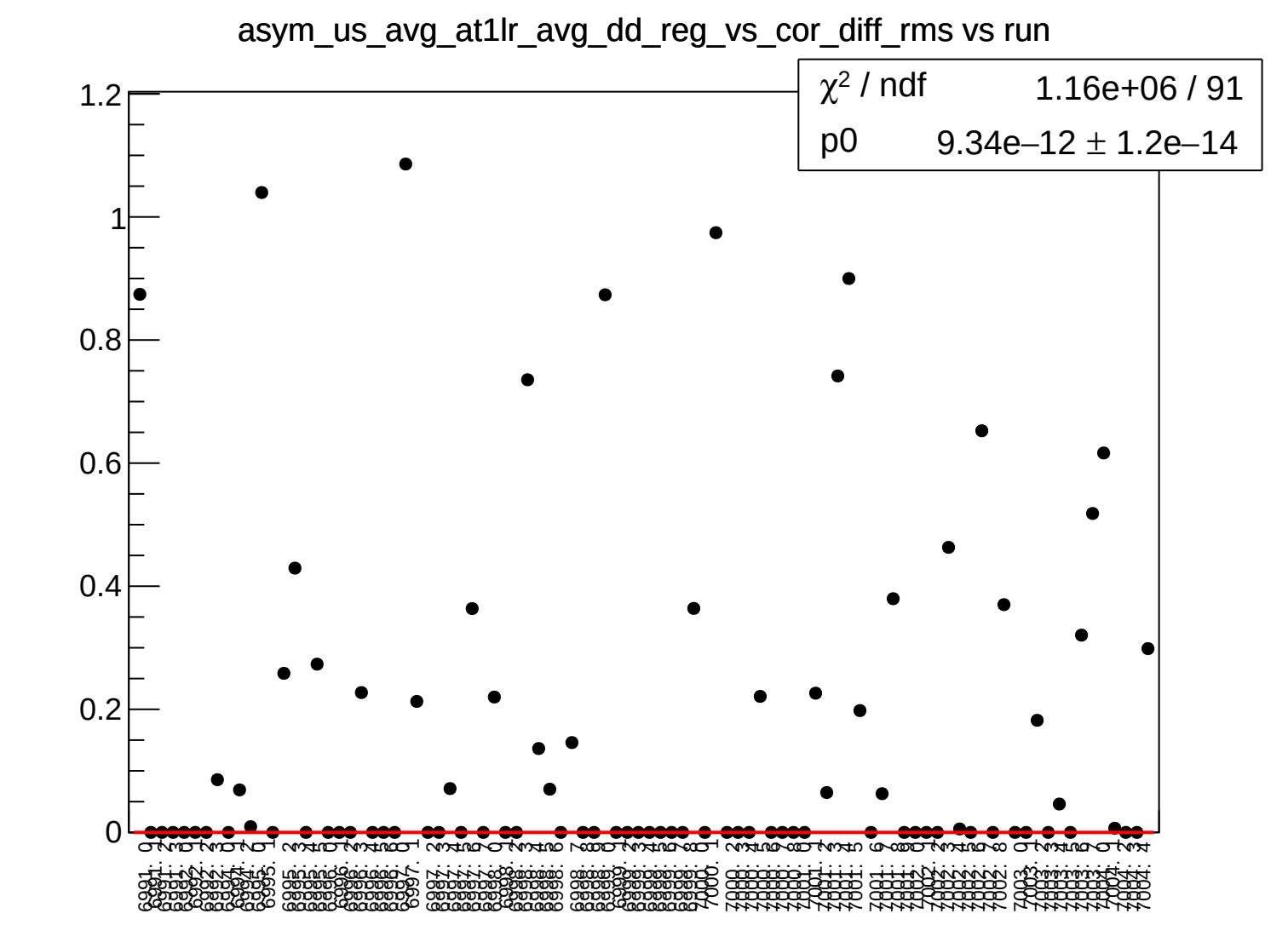

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3532 / 91
p0 692.2 ± 0.5215
800
780
760
740
720
700
680
660
640
620

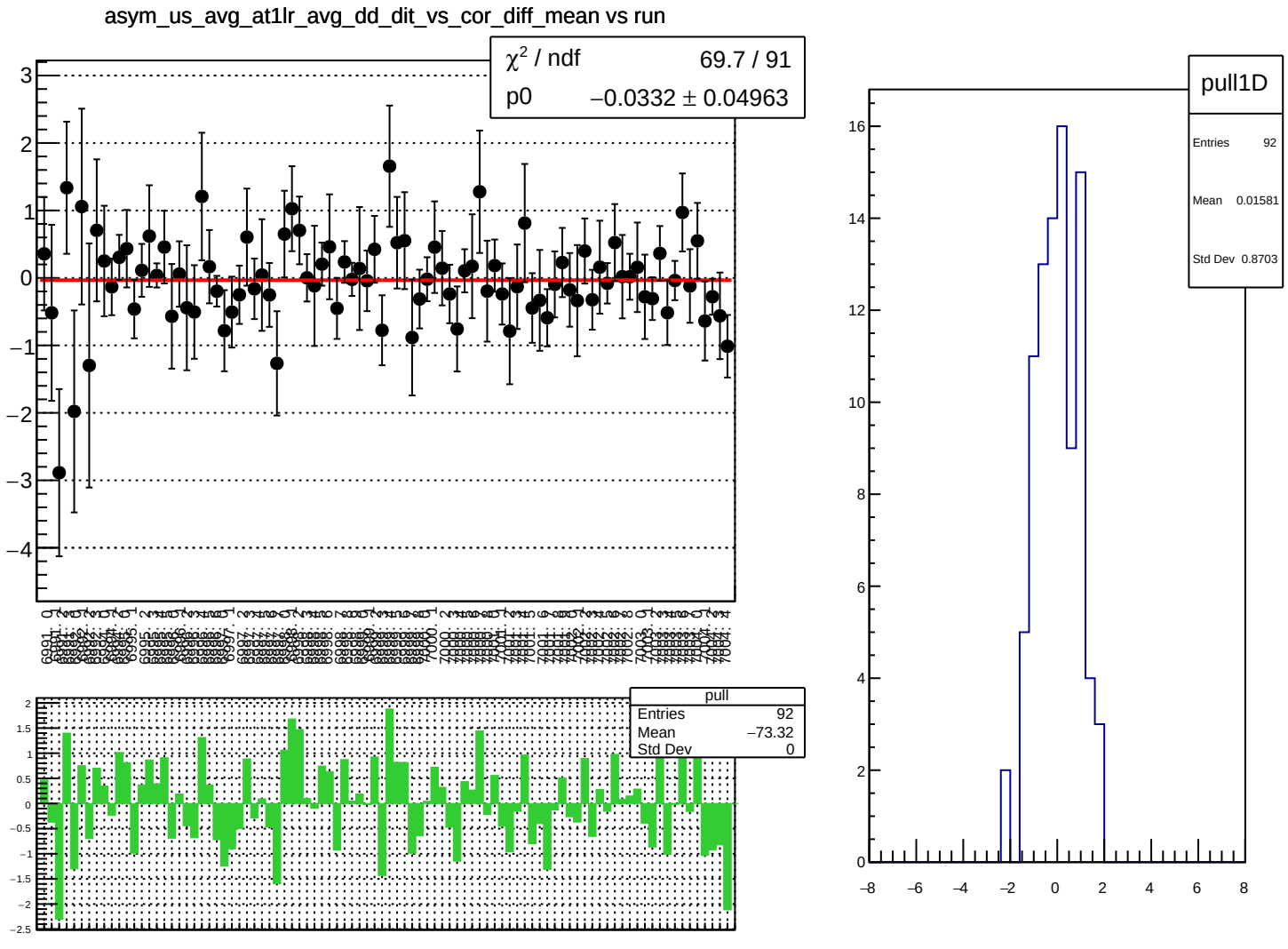

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.69 / 91
p0 3030 ± 2044
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 303
Std Dev 0
2
1
0
−1
−2

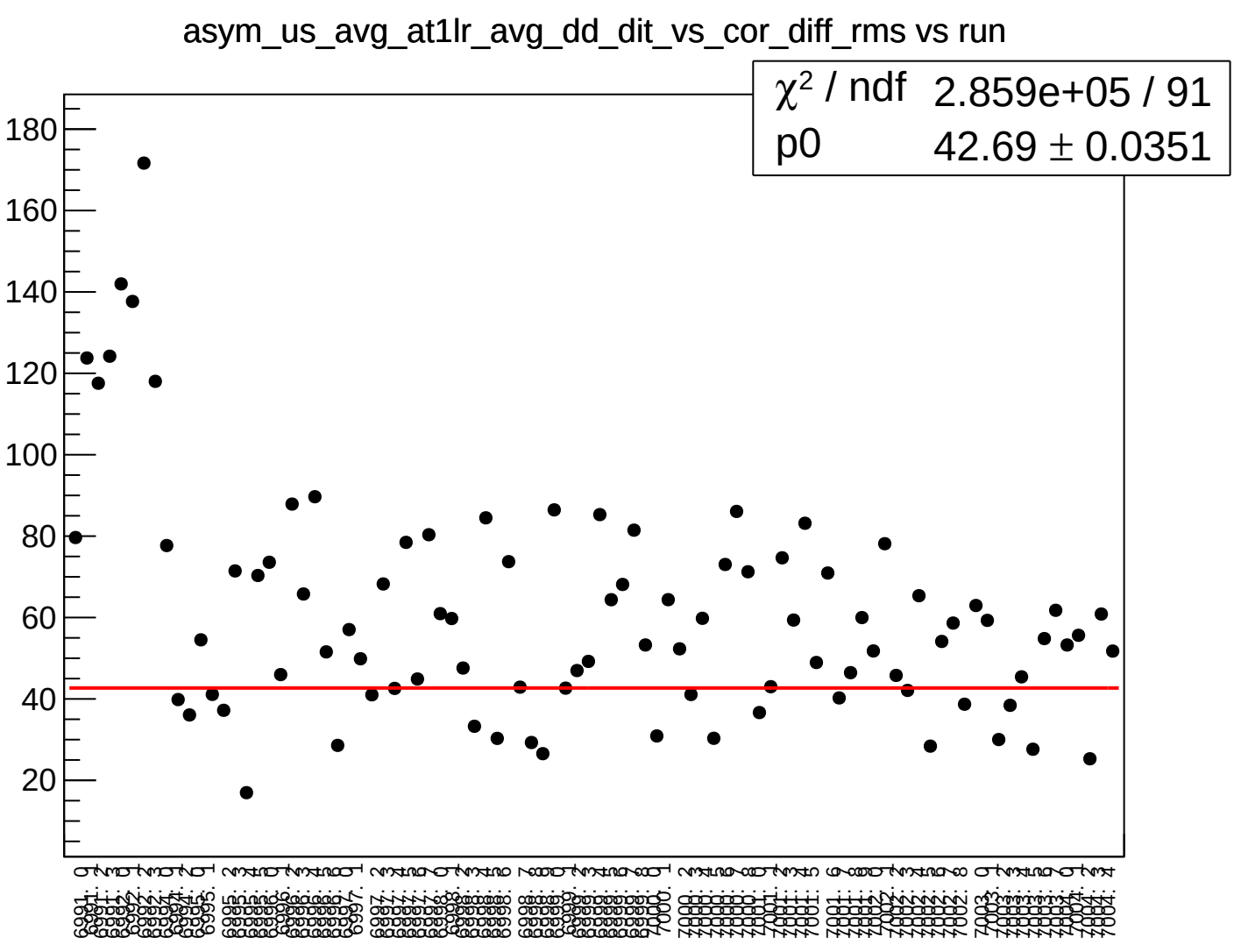

pull1D
Entries 92
Mean −0.003235
Std Dev 0.9763
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

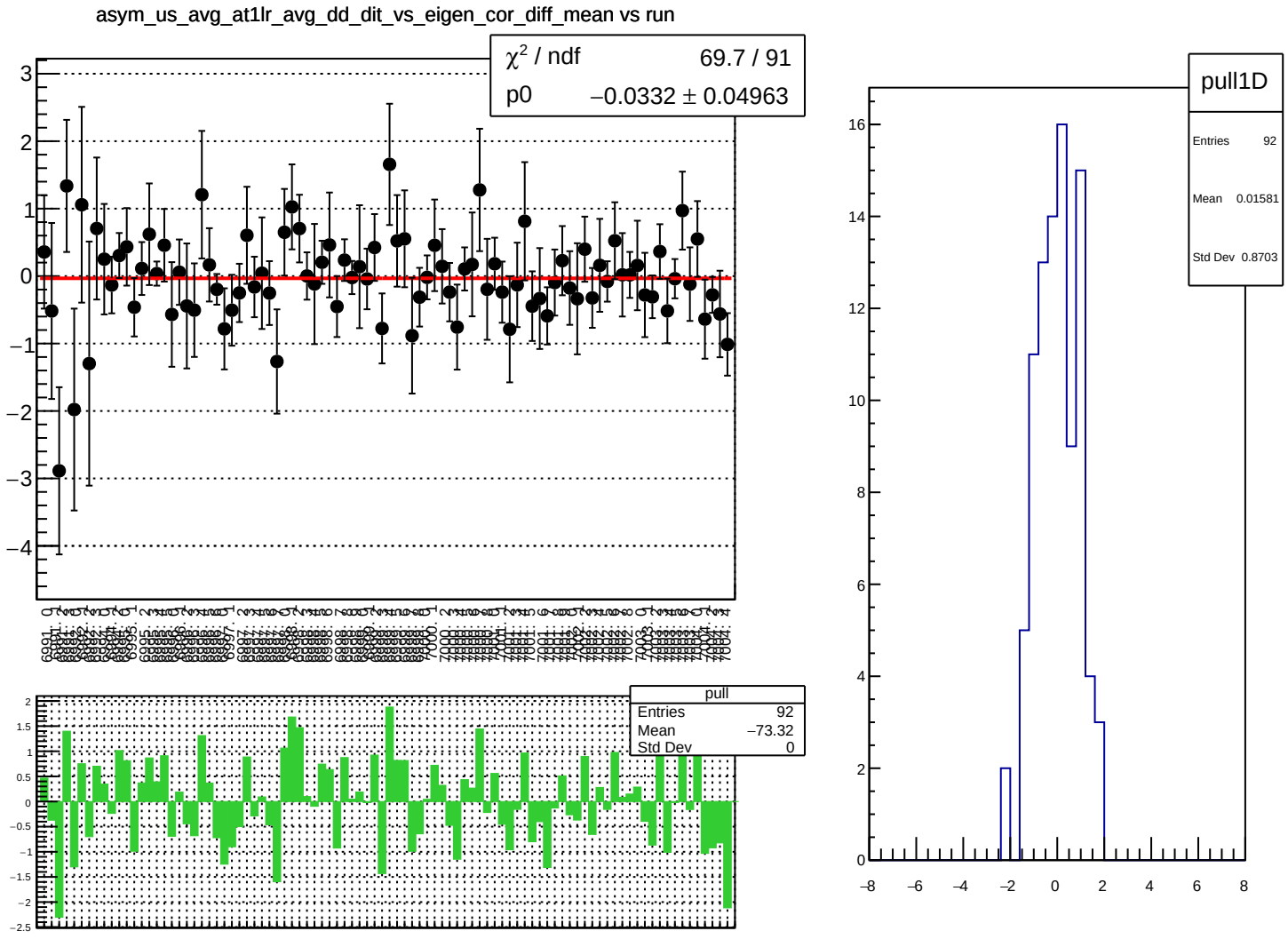

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 456.7 / 91
p0 1920 ± 1.445
2100
2050
2000
1950
1900
1850

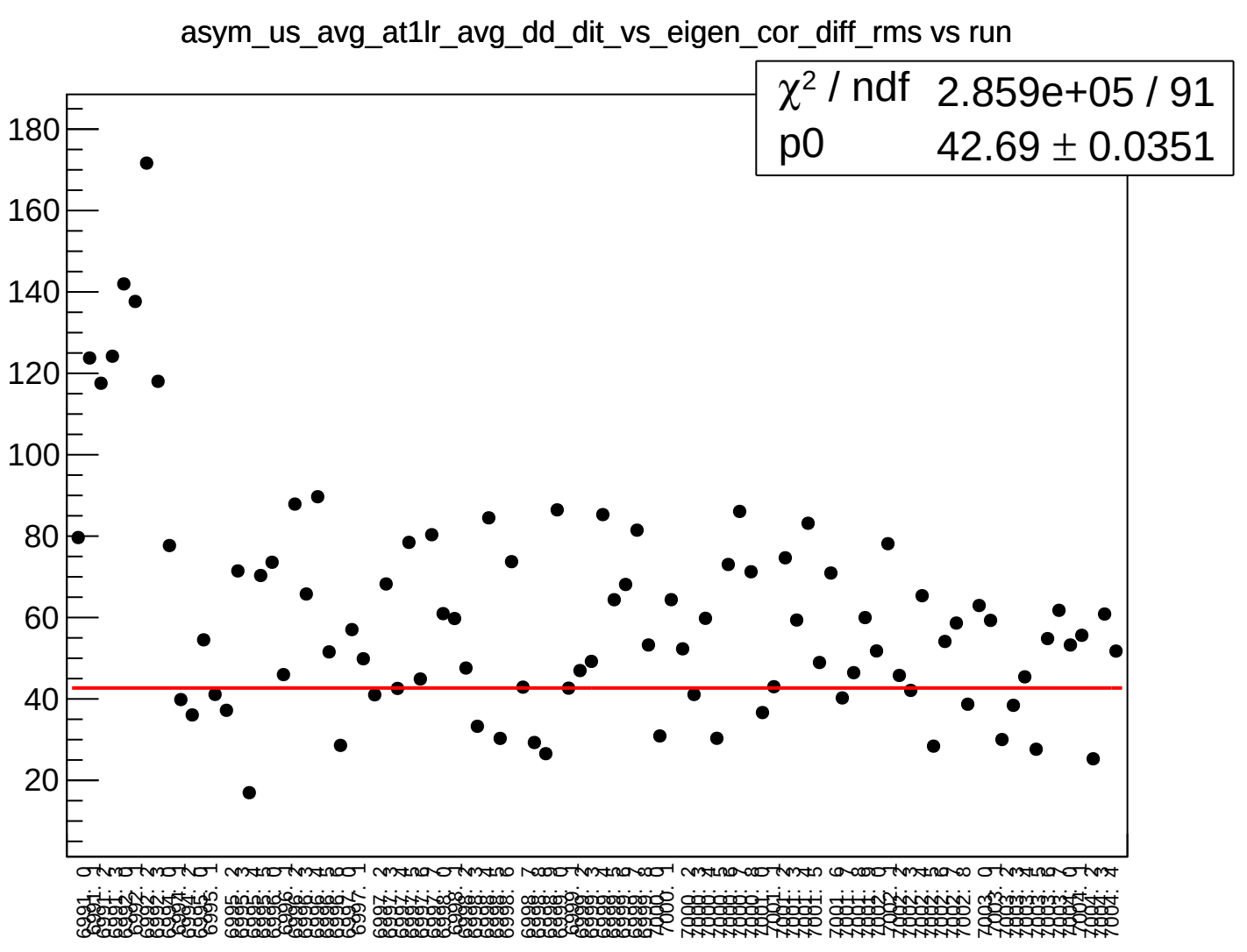

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.7 / 91
p0 1.378e−14 ± 1.697e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 64.05
Std Dev 29.26
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.1617
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

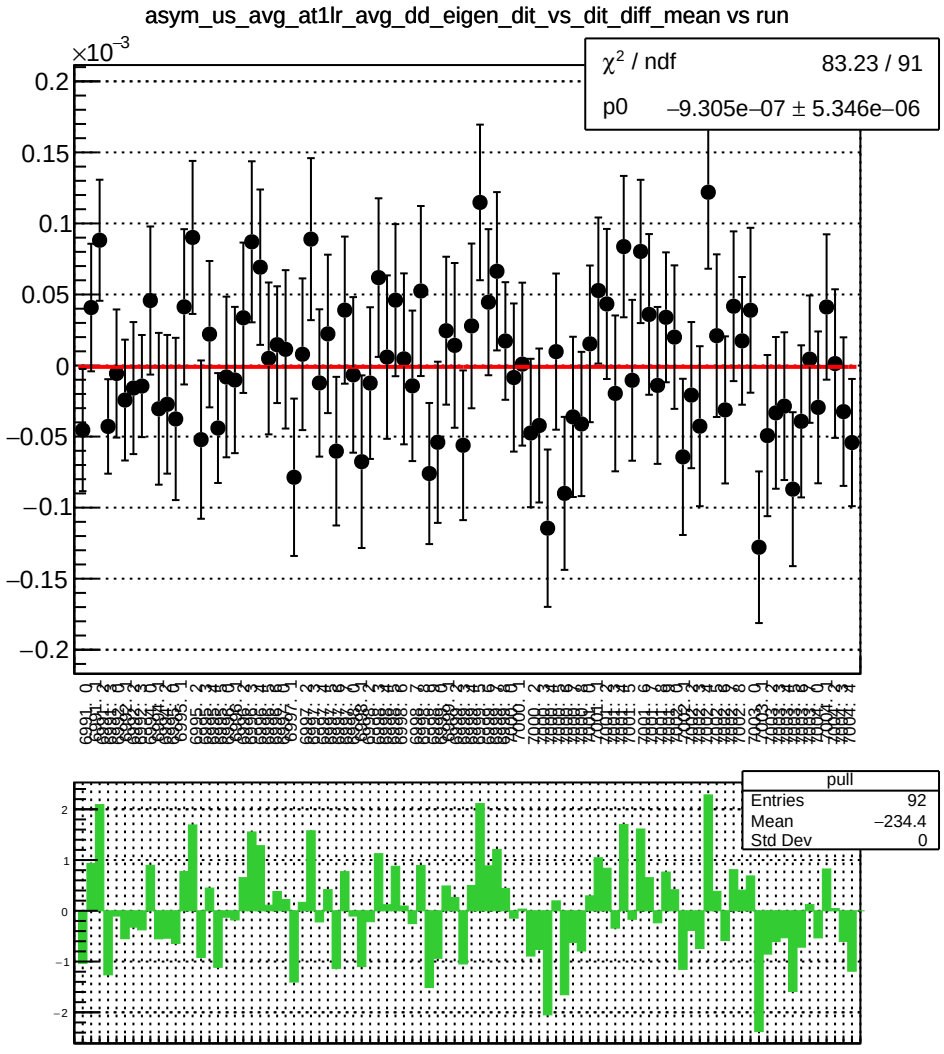

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.16e+06 / 91
p0 9.34e−12 ± 1.2e−14
1.2
1
0.8
0.6
0.4
0.2
0

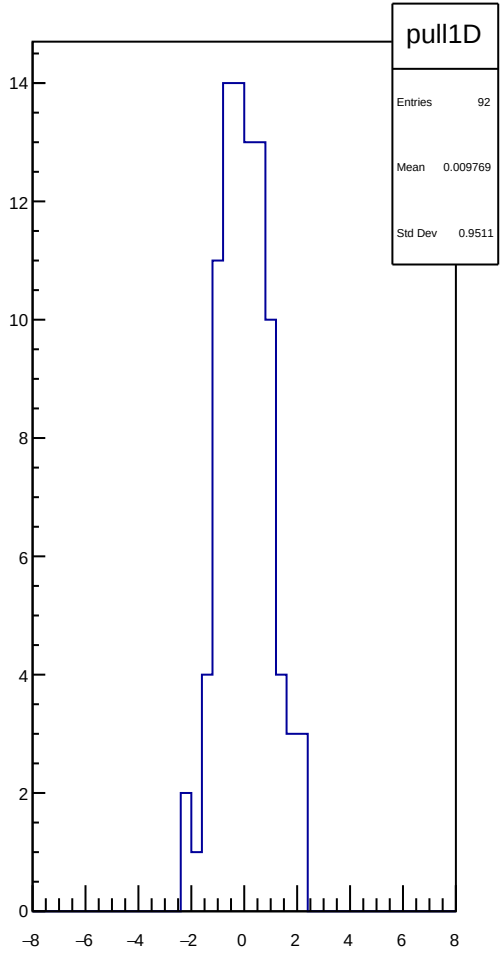

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.7 / 91
p0 −0.0332 ± 0.04963
pull
Entries 92
Mean −73.32
Std Dev 0
pull1D
Entries 92
Mean 0.01581
Std Dev 0.8703

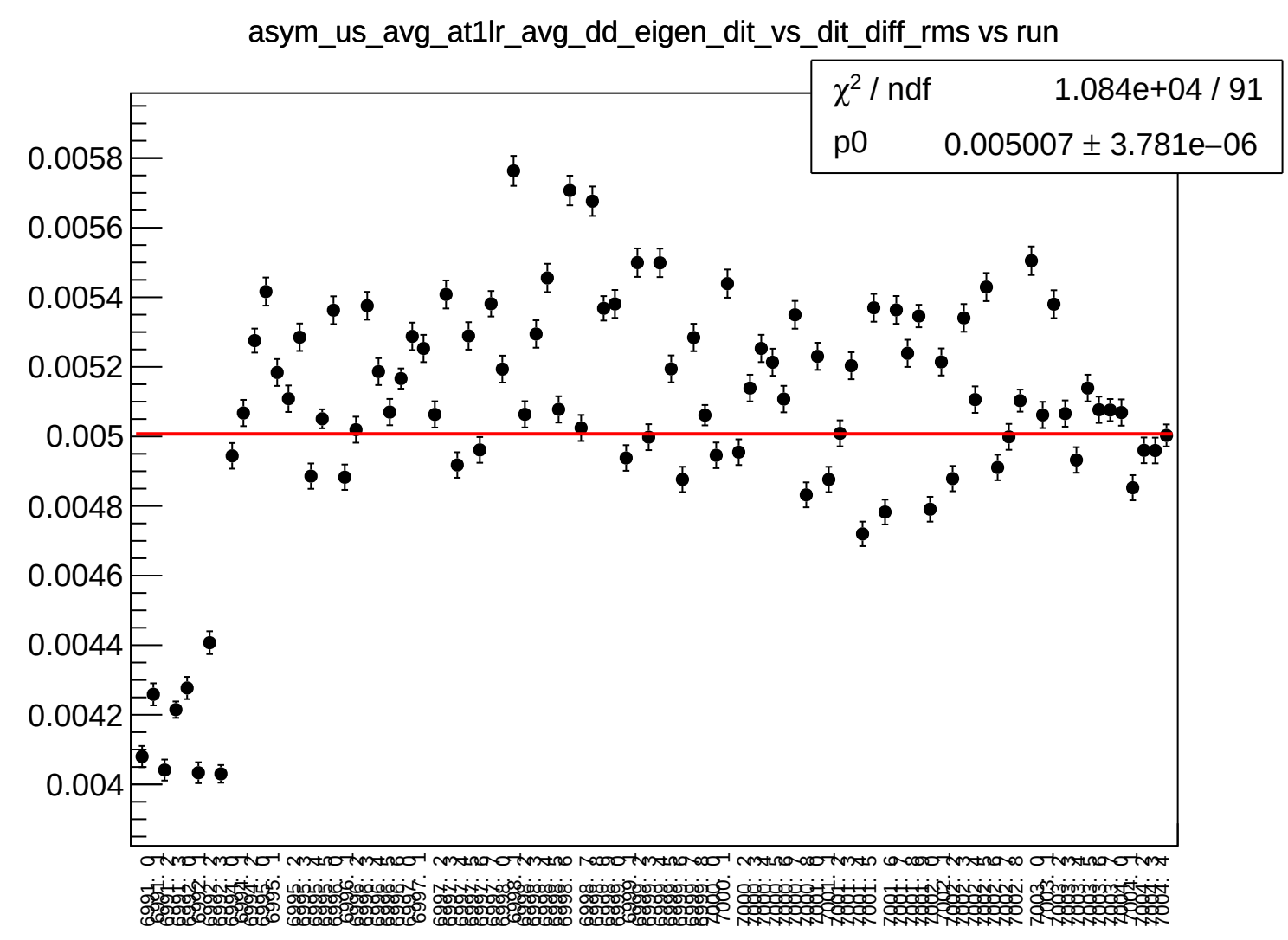

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.859e+05 / 91
p0 42.69 ± 0.0351
180
160
140
120
100
80
60
40
20

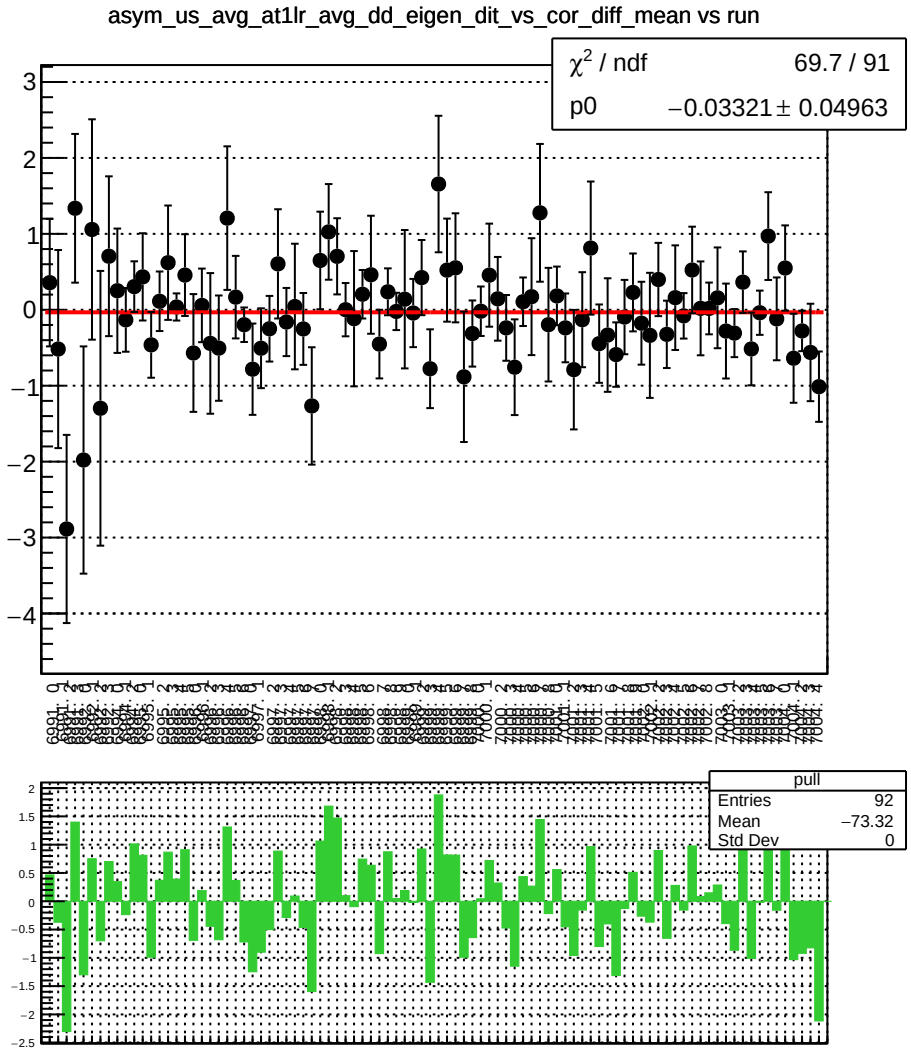

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.7 / 91
p0 −0.0332 ± 0.04963
pull
Entries 92
Mean −73.32
Std Dev 0
pull1D
Entries 92
Mean 0.01581
Std Dev 0.8703

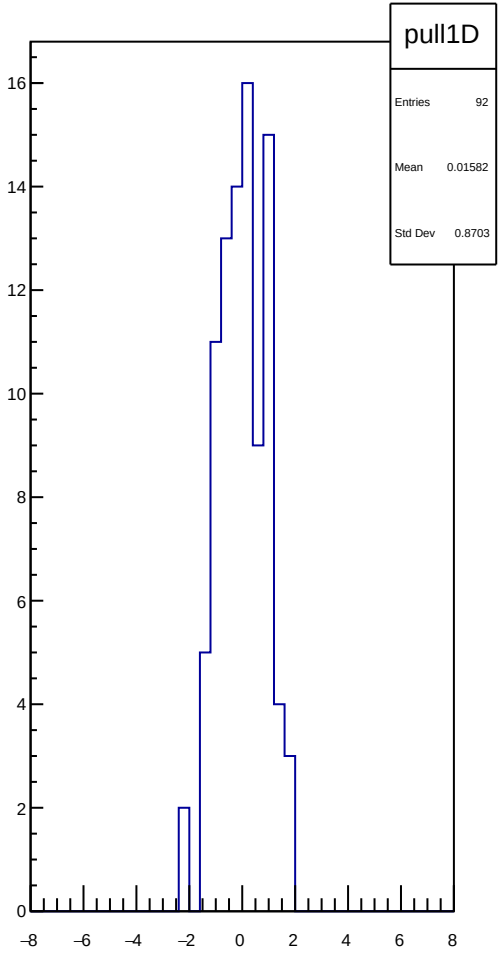

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.859e+05 / 91
p0 42.69 ± 0.0351
180
160
140
120
100
80
60
40
20

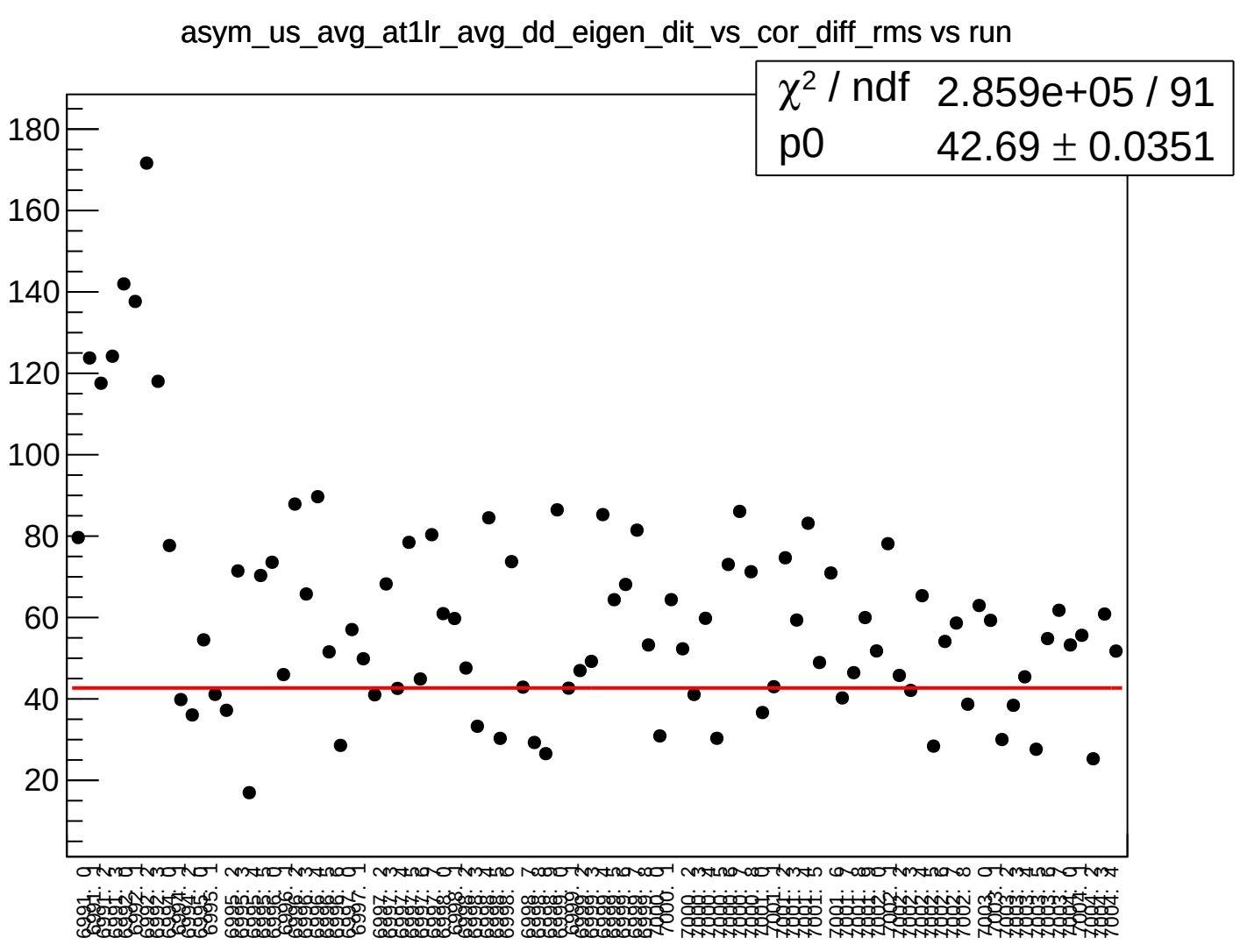

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.23 / 91
p0 −9.305e−07 ± 5.346e−06
pull
Entries 92
Mean −234.4
Std Dev 0

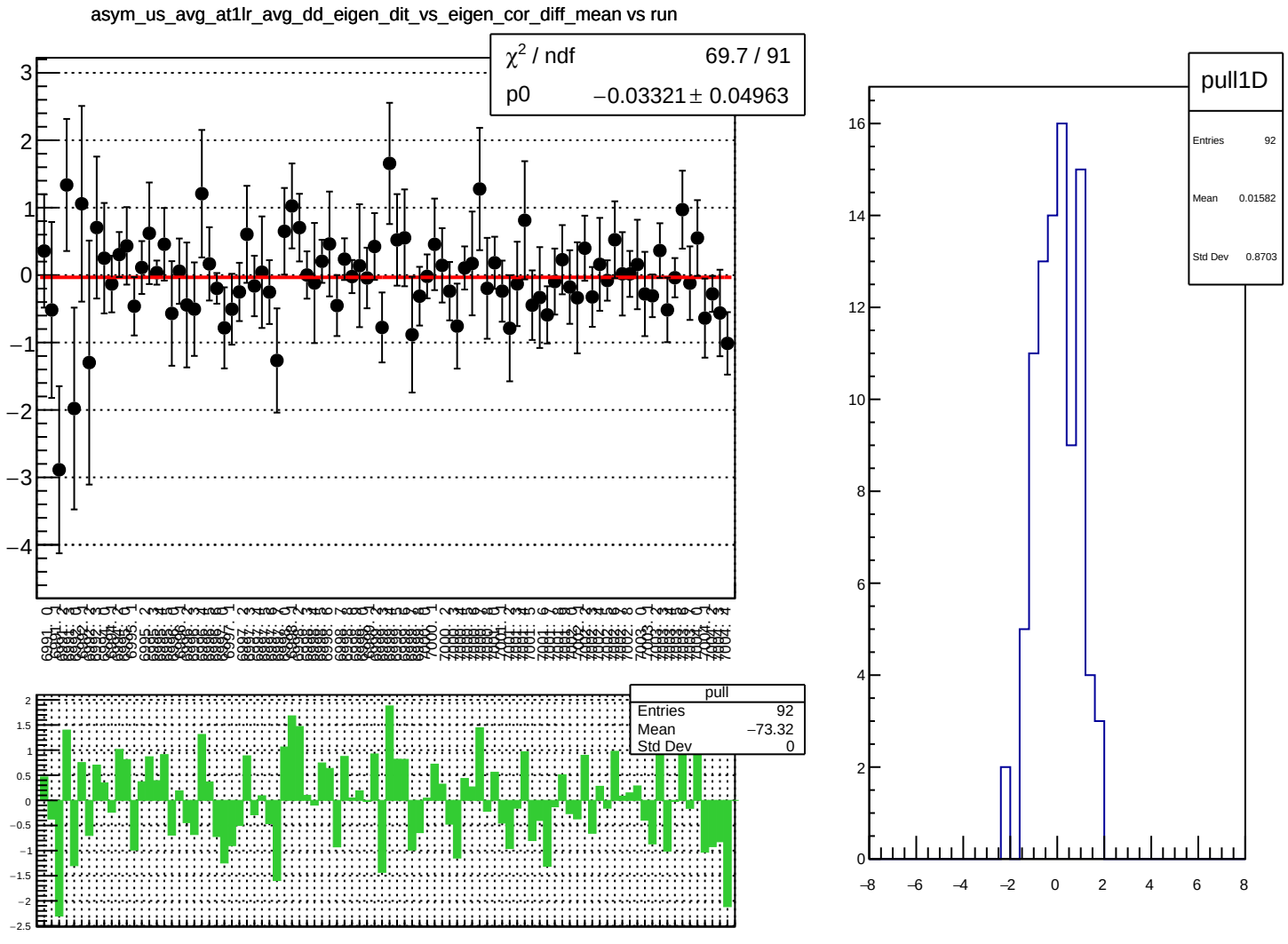

pull1D
Entries 92
Mean 0.009769
Std Dev 0.9511

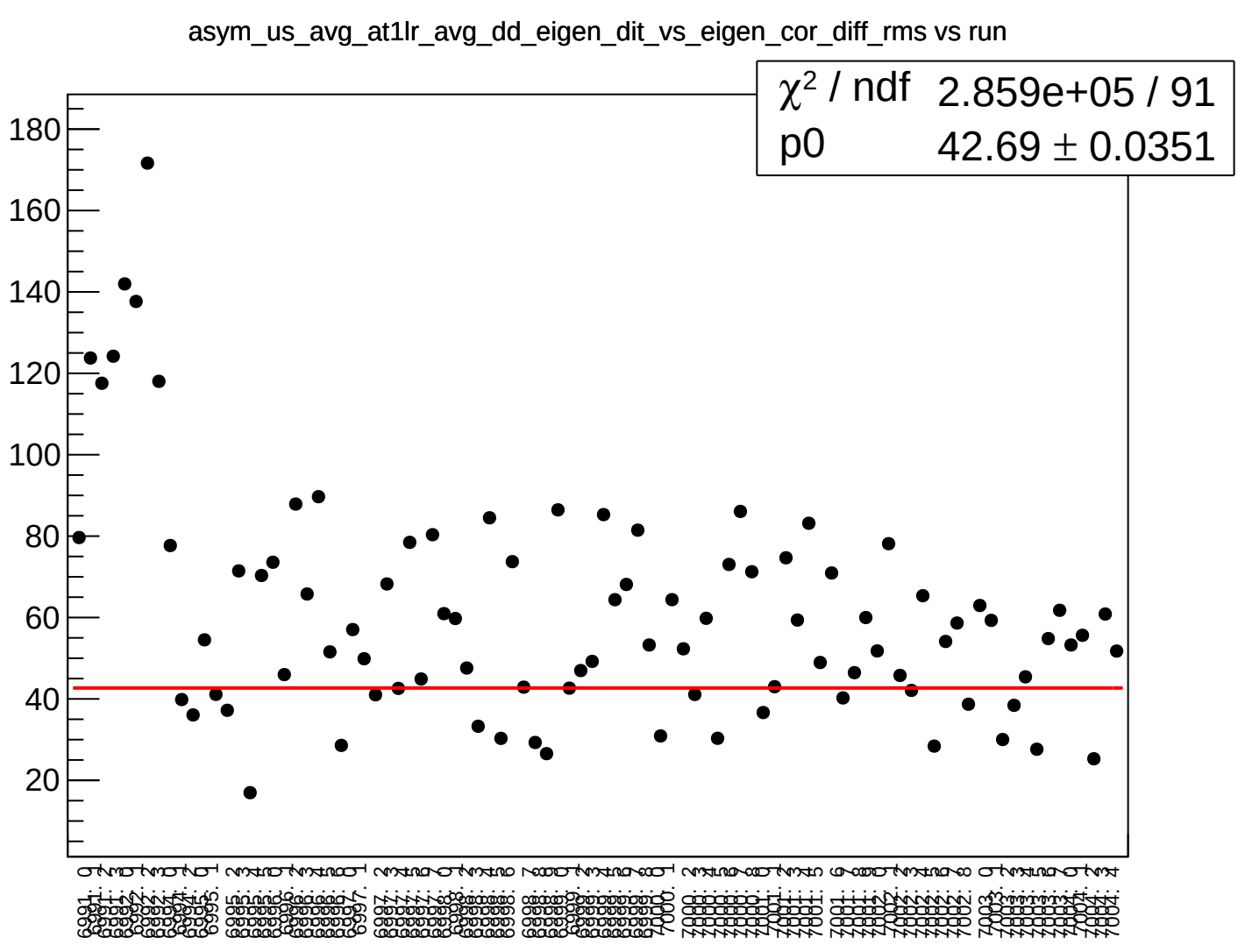

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.084e+04 / 91
p0 0.005007 ± 3.781e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

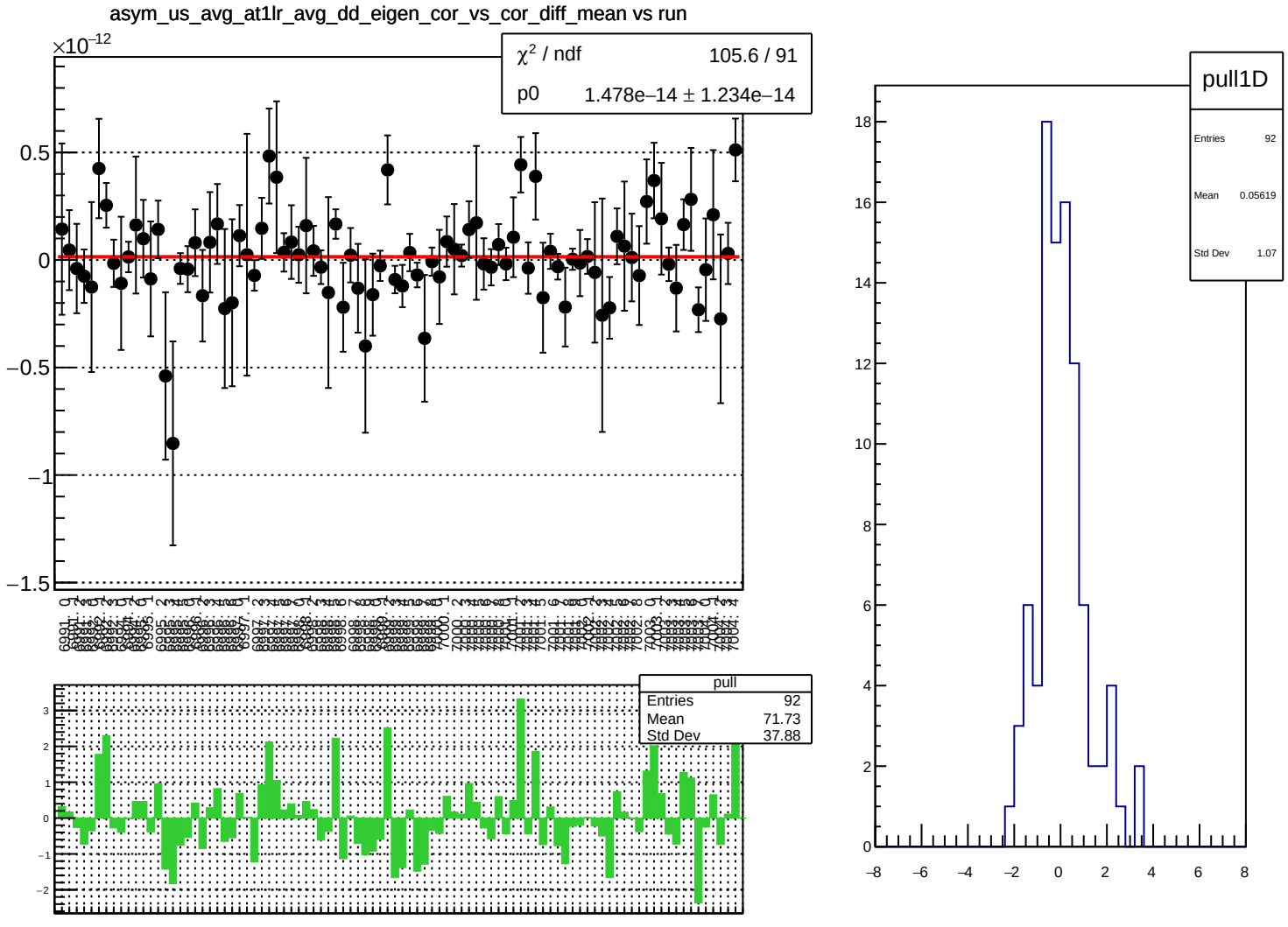

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.7 / 91
p0 −0.03321 ± 0.04963
pull
Entries 92
Mean −73.32
Std Dev 0

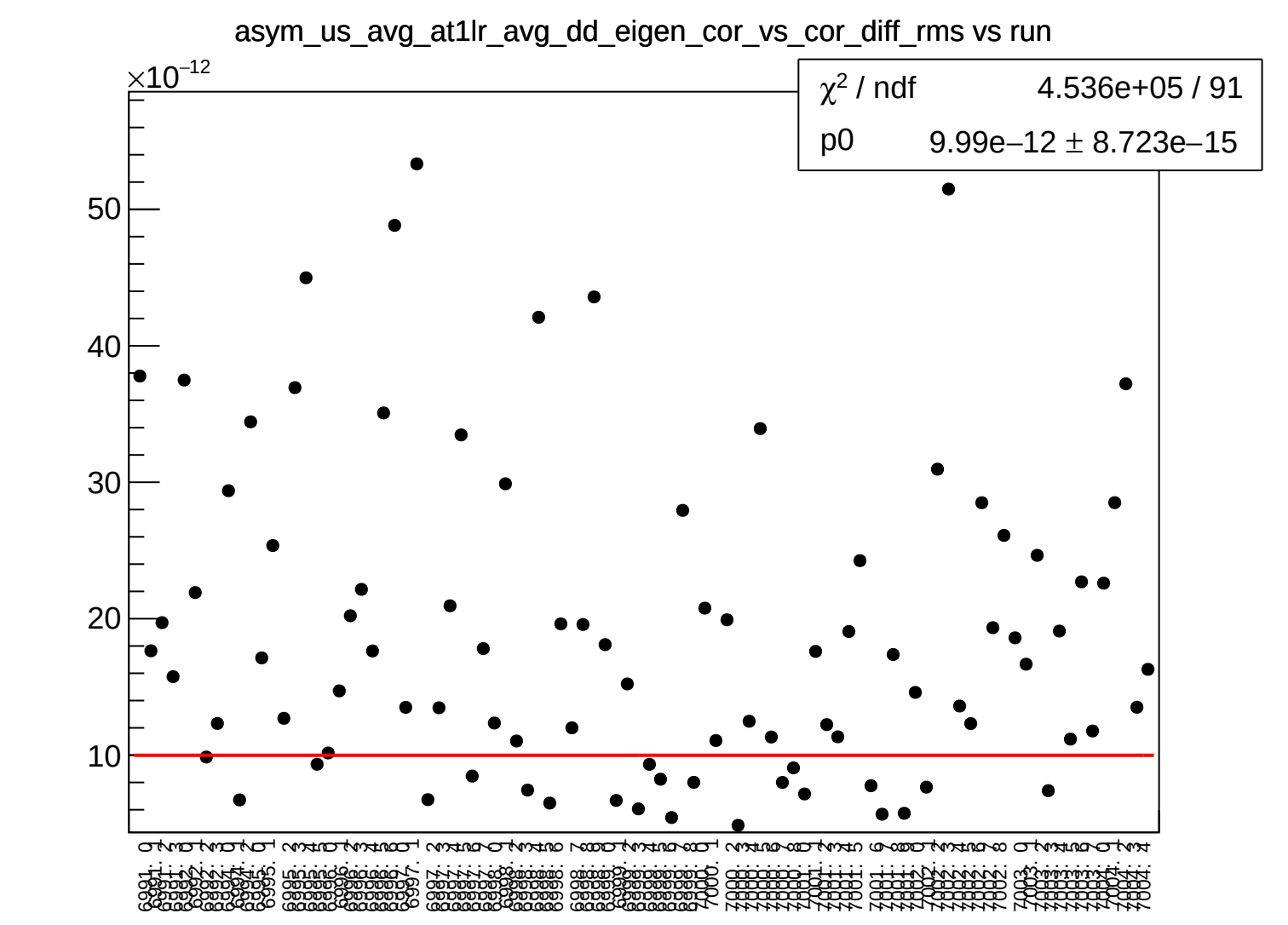

pull1D
Entries 92
Mean 0.01582
Std Dev 0.8703

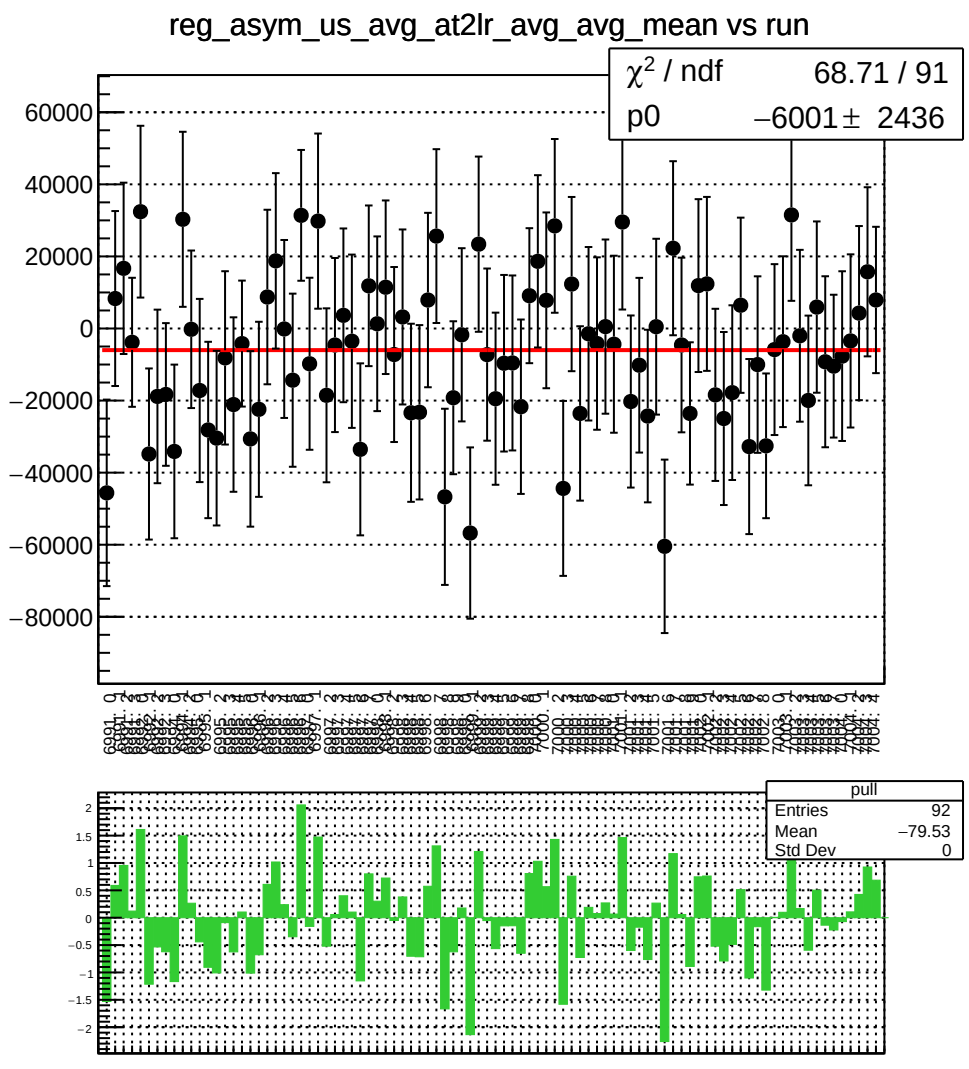

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.859e+05 / 91
p0 42.69 ± 0.0351
180
160
140
120
100
80
60
40
20

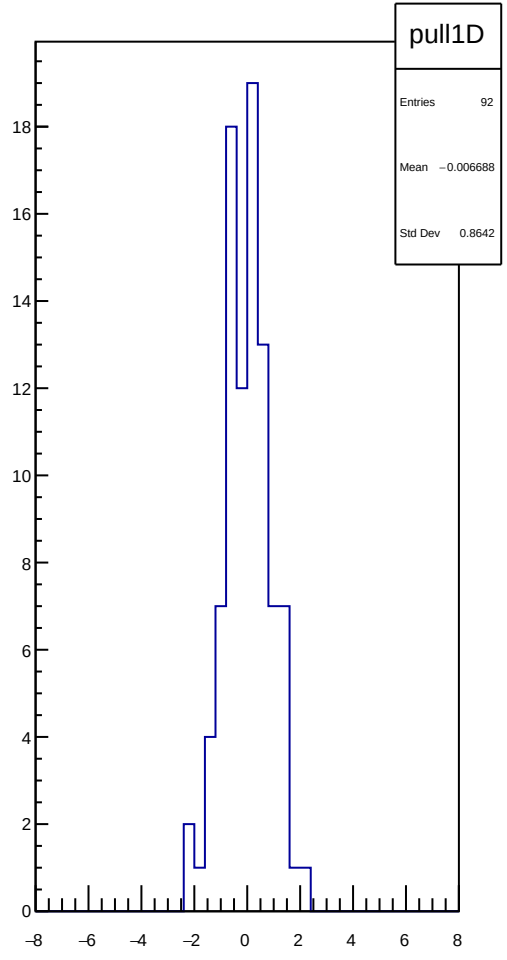

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.7 / 91
p0 −0.03321 ± 0.04963
pull
Entries 92
Mean −73.32
Std Dev 0
pull1D
Entries 92
Mean 0.01582
Std Dev 0.8703

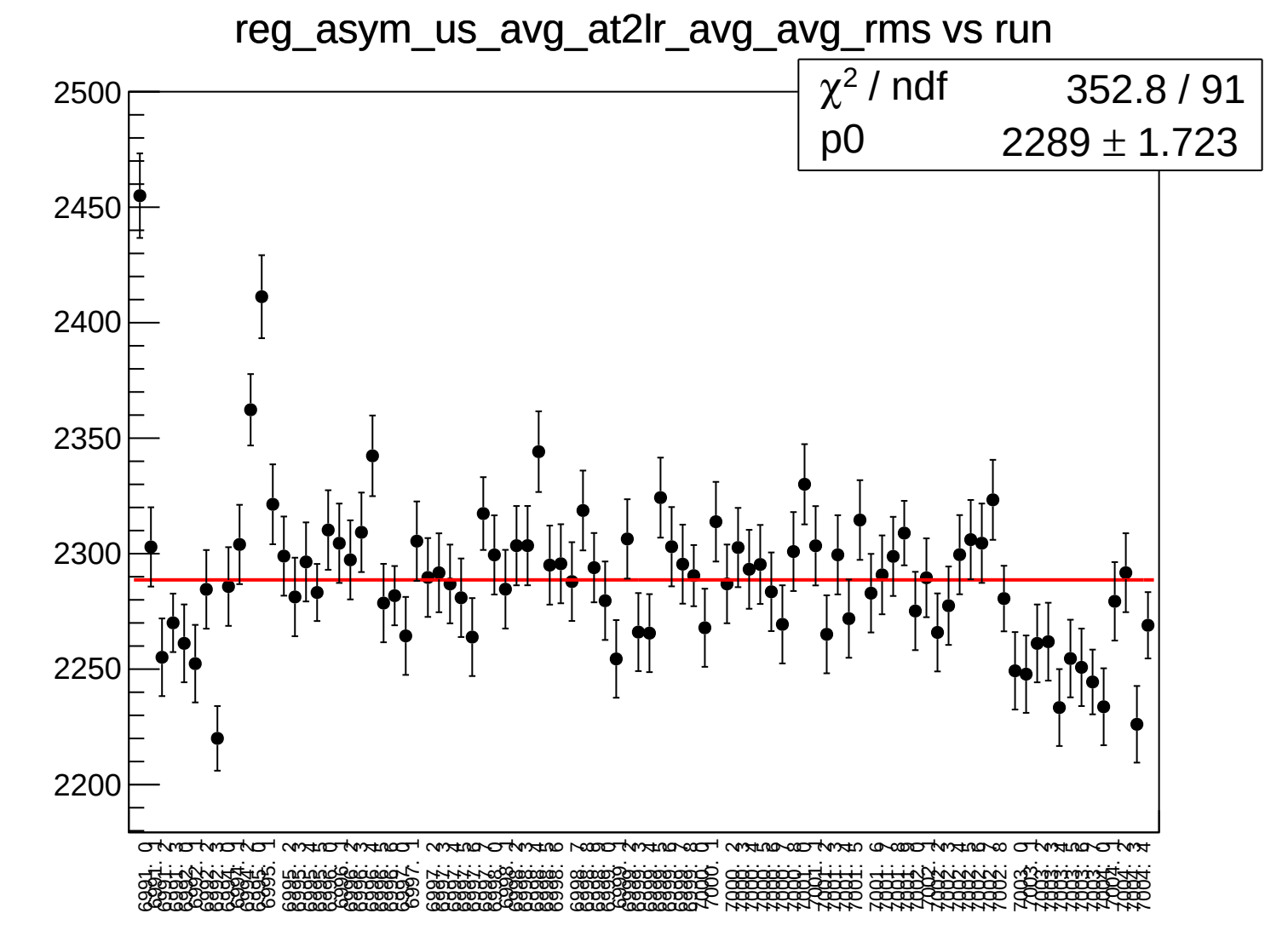

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.859e+05 / 91
p0 42.69 ± 0.0351
180
160
140
120
100
80
60
40
20

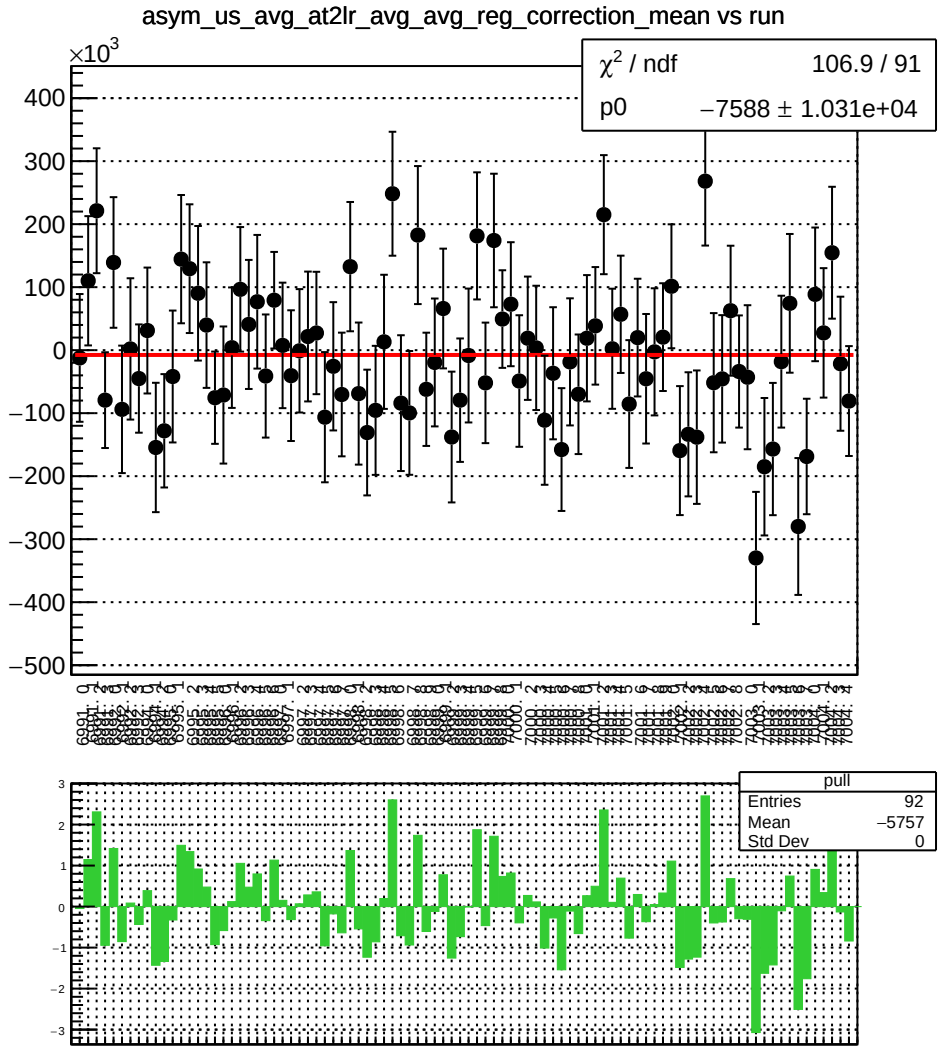

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.6 / 91
p0 1.478e−14 ± 1.234e−14
0.5
0
−0.5
−1
−1.5
pull
Entries 92
Mean 71.73
Std Dev 37.88
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.05619
Std Dev 1.07
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

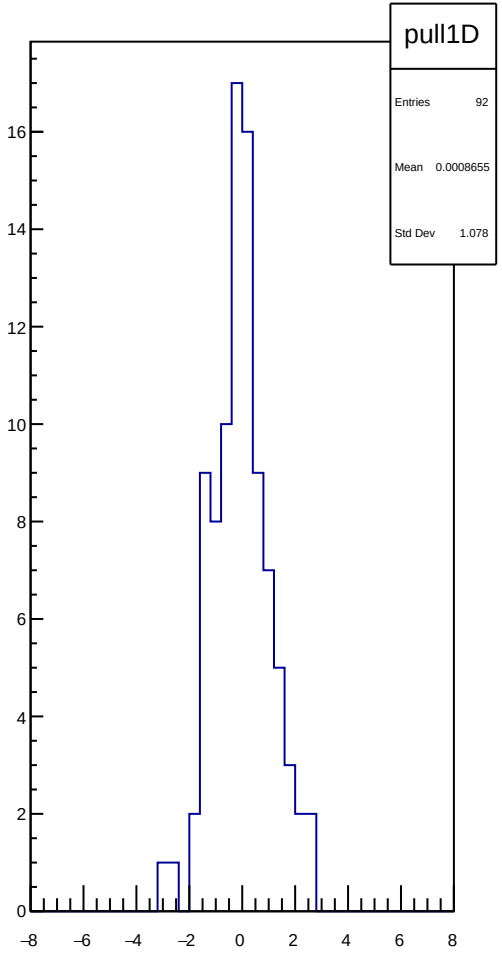

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.536e+05 / 91
p0 9.99e−12 ± 8.723e−15
50
40
30
20
10

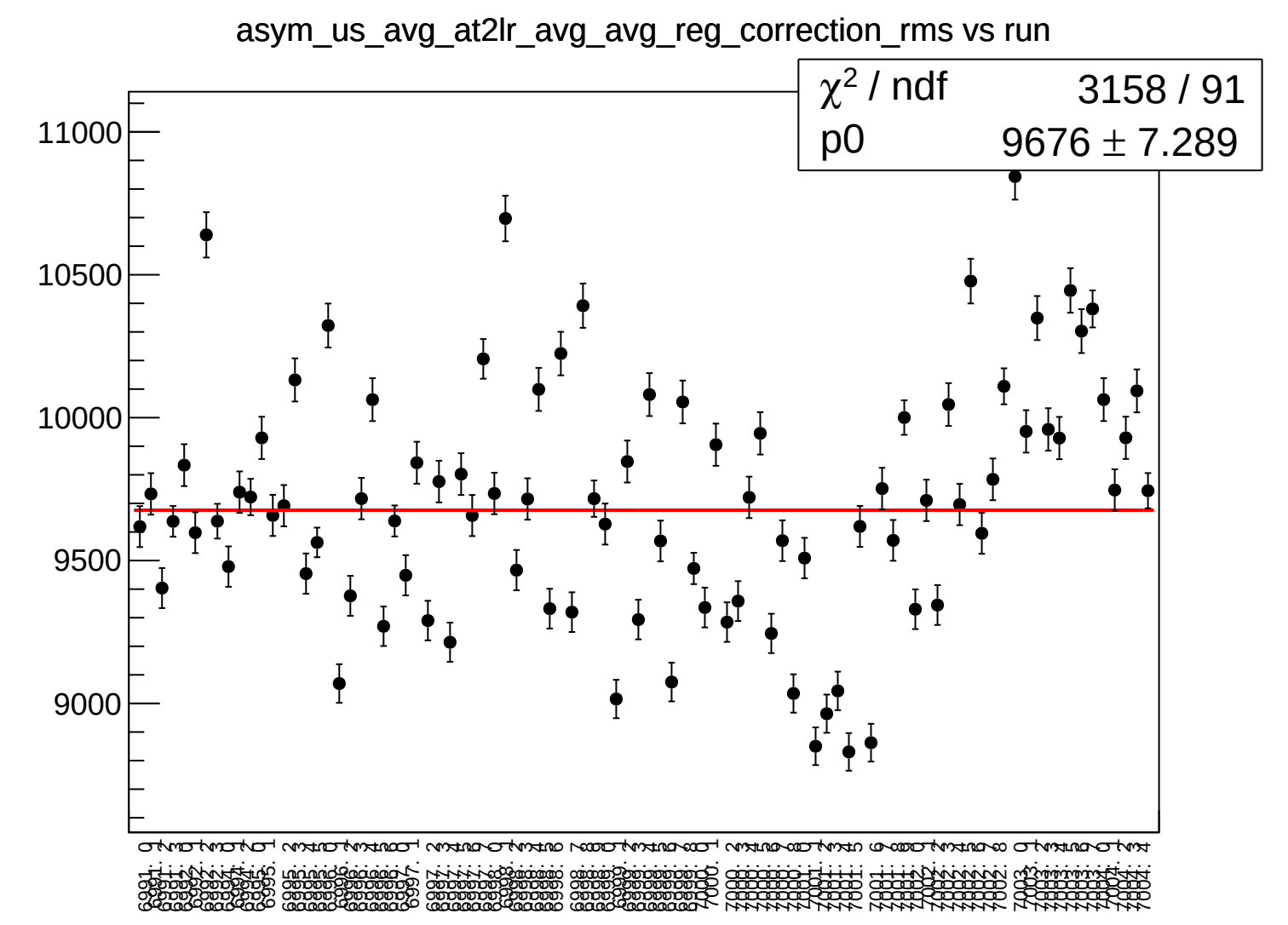

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 68.71 / 91
p0 −6001 ± 2436
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −79.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

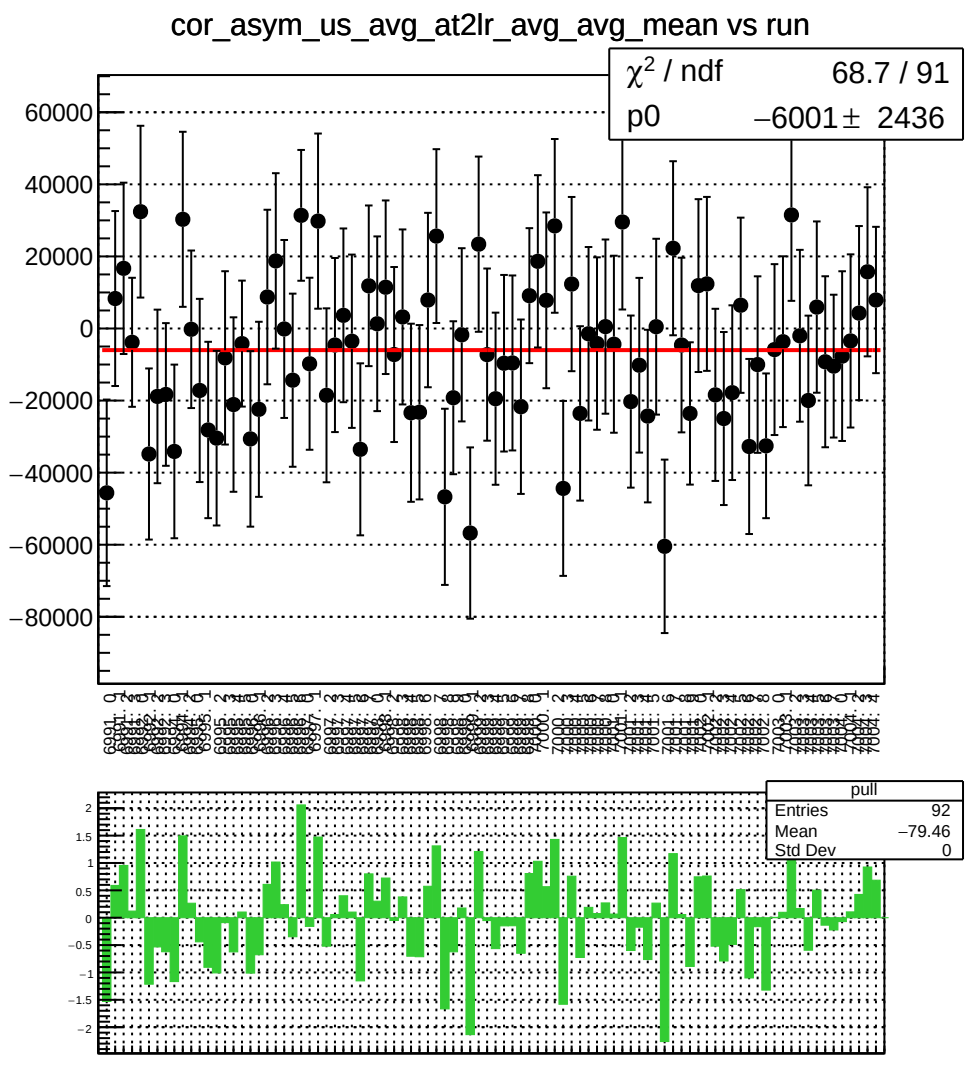

pull1D
Entries 92
Mean −0.006688
Std Dev 0.8642
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

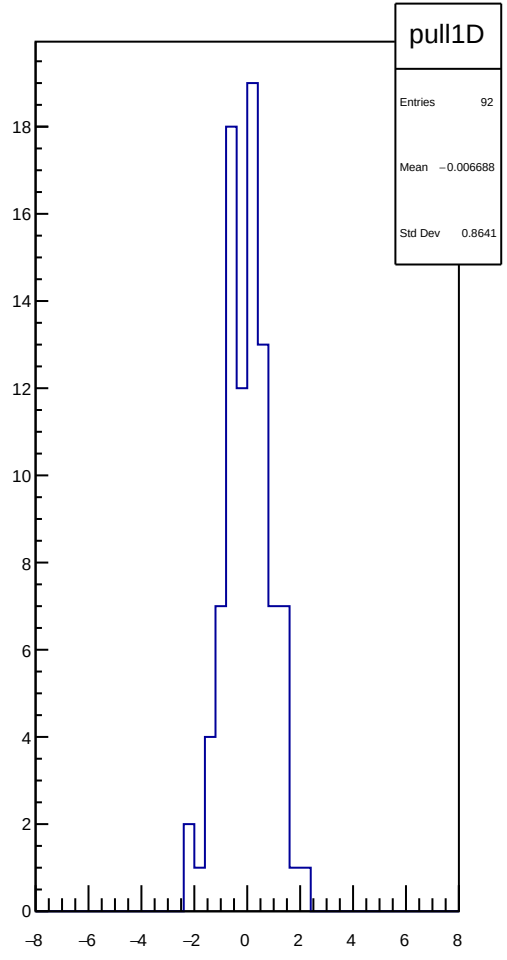

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 352.8 / 91
p0 2289 ± 1.723
2500
2450
2400
2350
2300
2250
2200

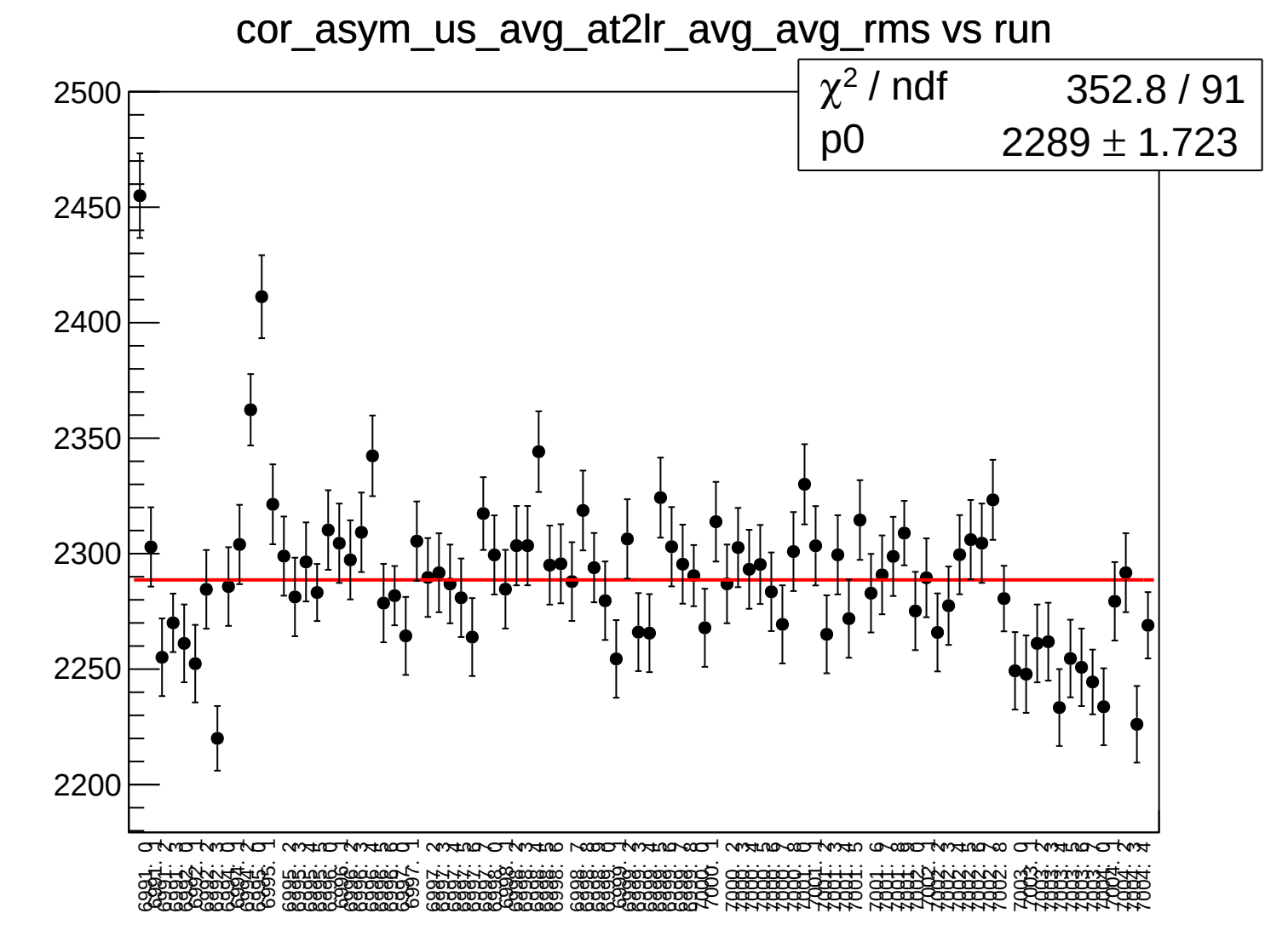

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 106.9 / 91
p0 −7588 ± 1.031e+04
pull
Entries 92
Mean −5757
Std Dev 0

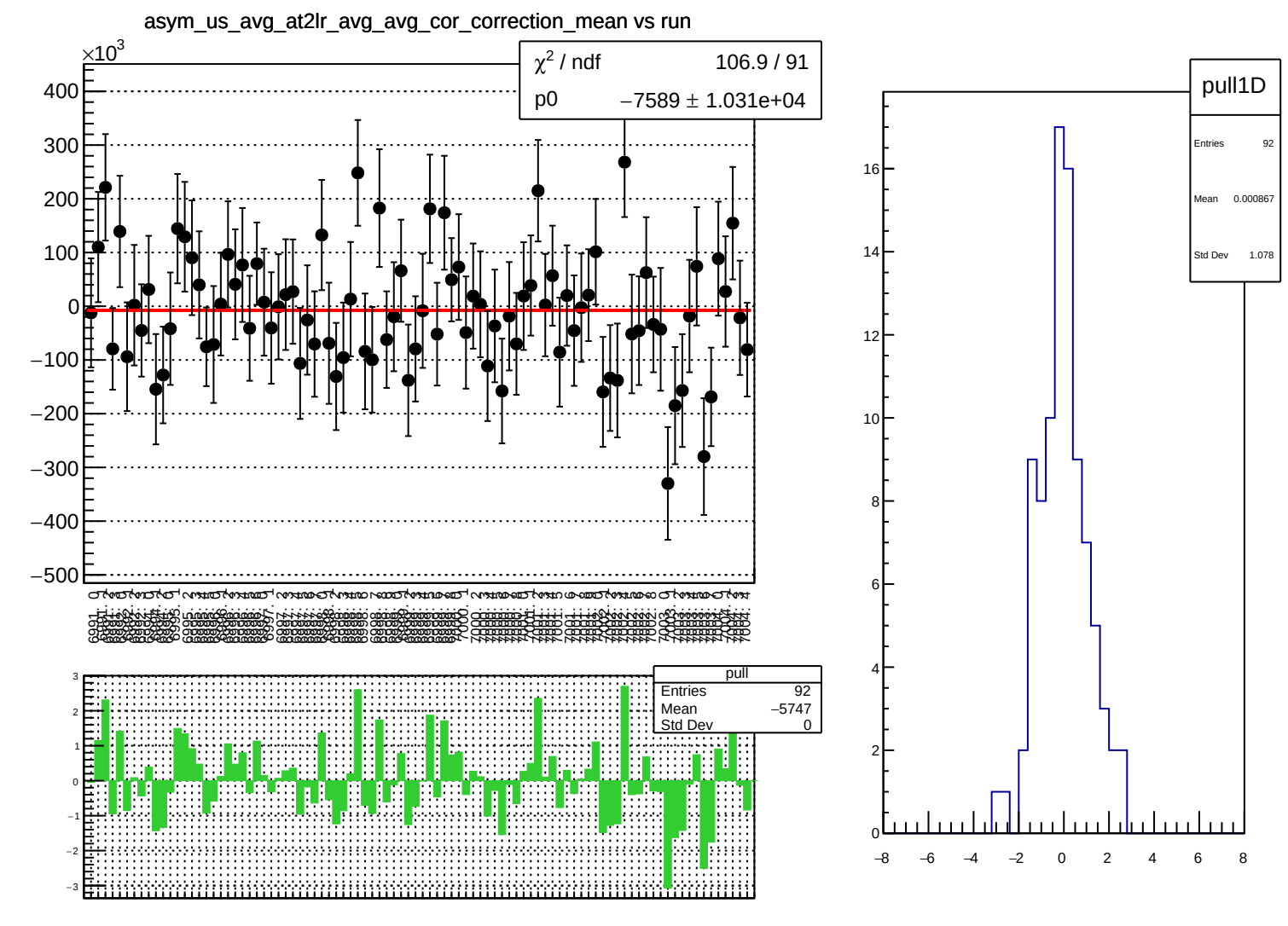

pull1D
Entries 92
Mean 0.0008655
Std Dev 1.078

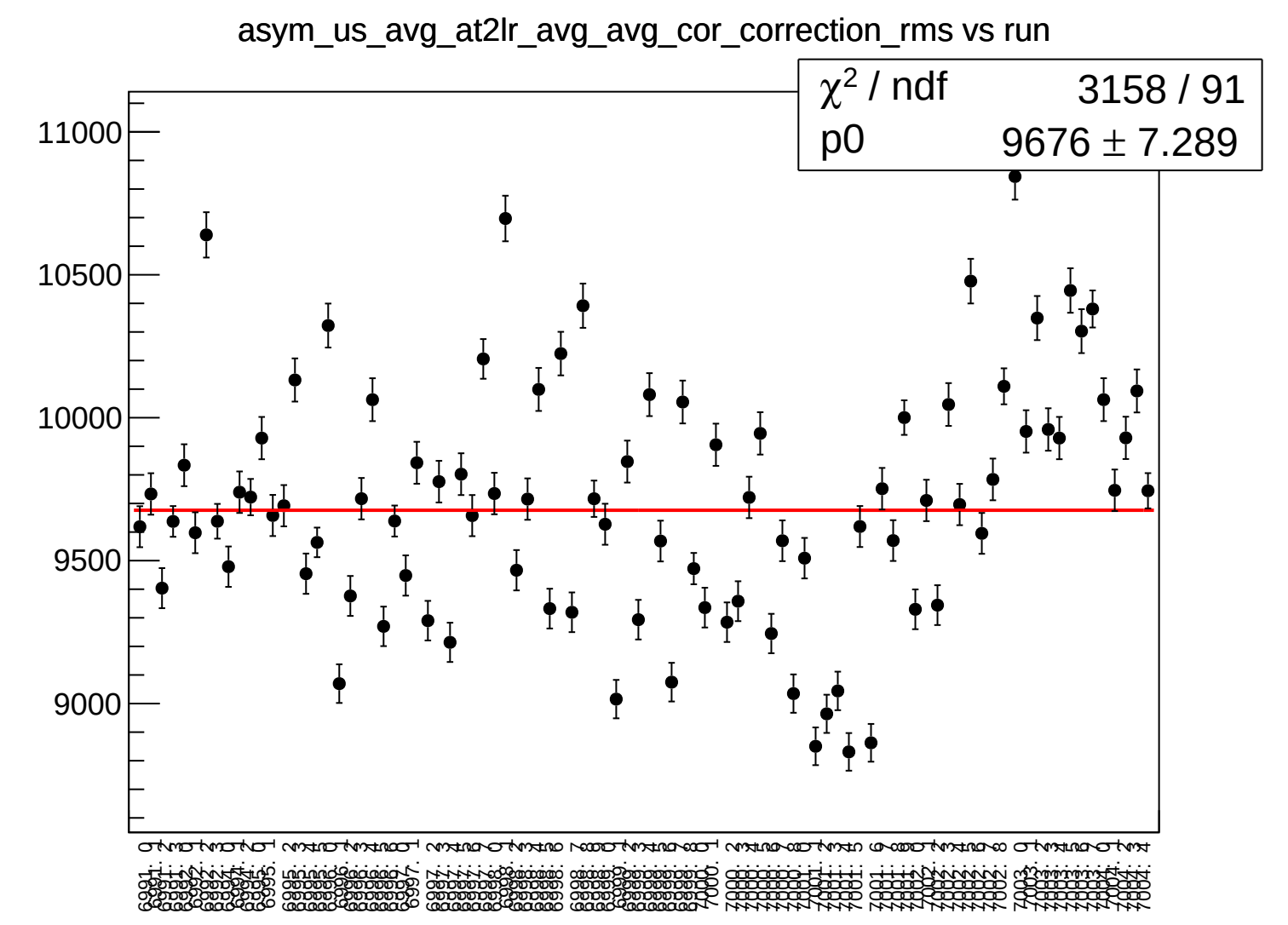

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 3158 / 91
p0 9676 ± 7.289
11000
10500
10000
9500
9000

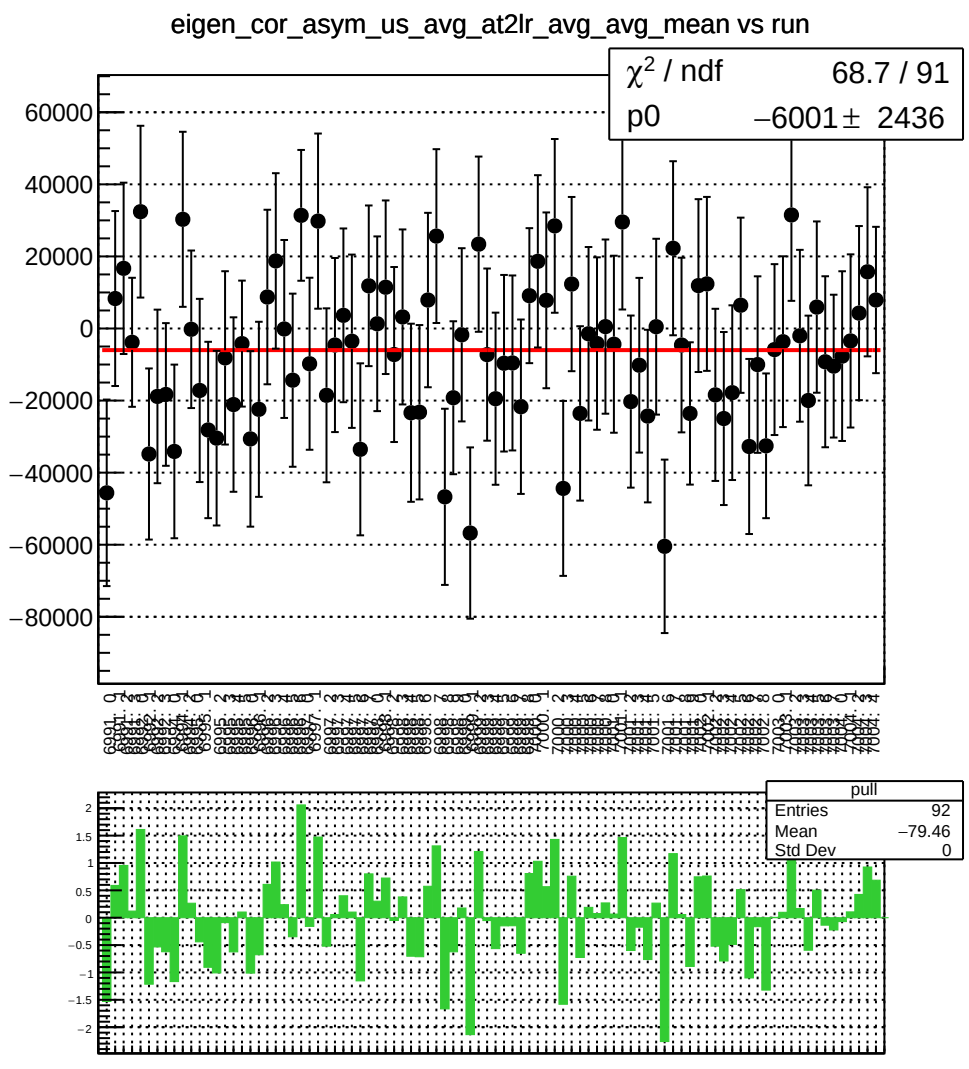

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 68.7 / 91
p0 −6001 ± 2436
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −79.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

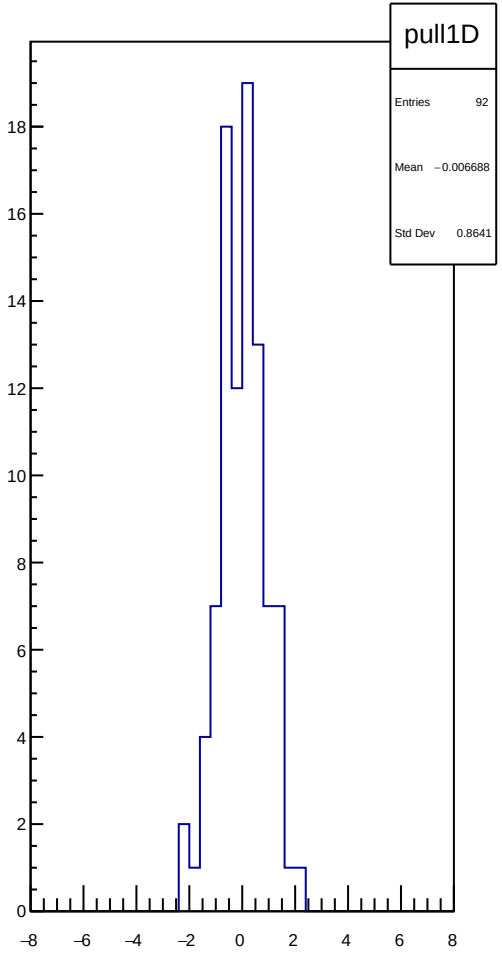

pull1D
Entries 92
Mean −0.006688
Std Dev 0.8641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

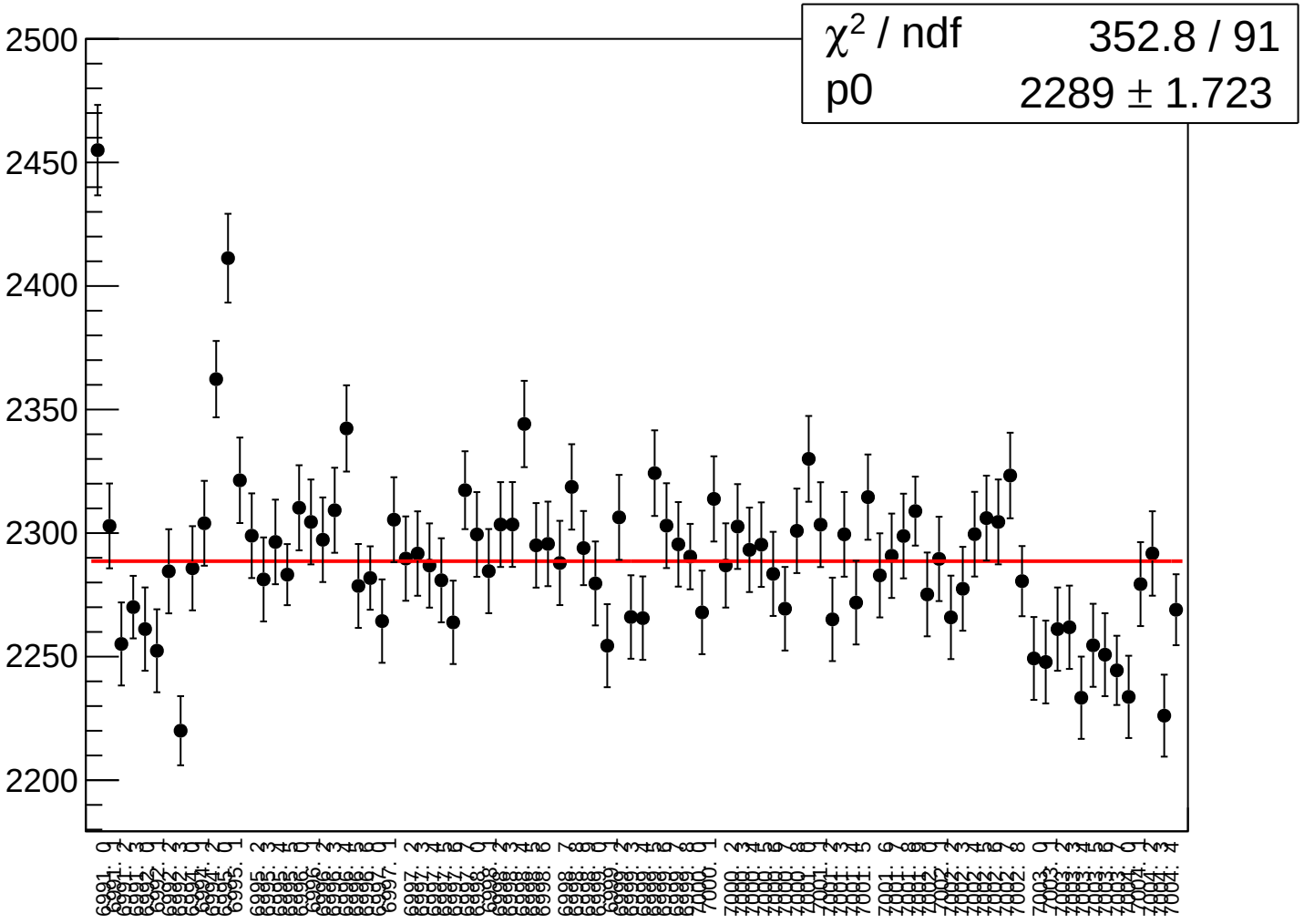

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 352.8 / 91
p0 2289 ± 1.723
2500
2450
2400
2350
2300
2250
2200

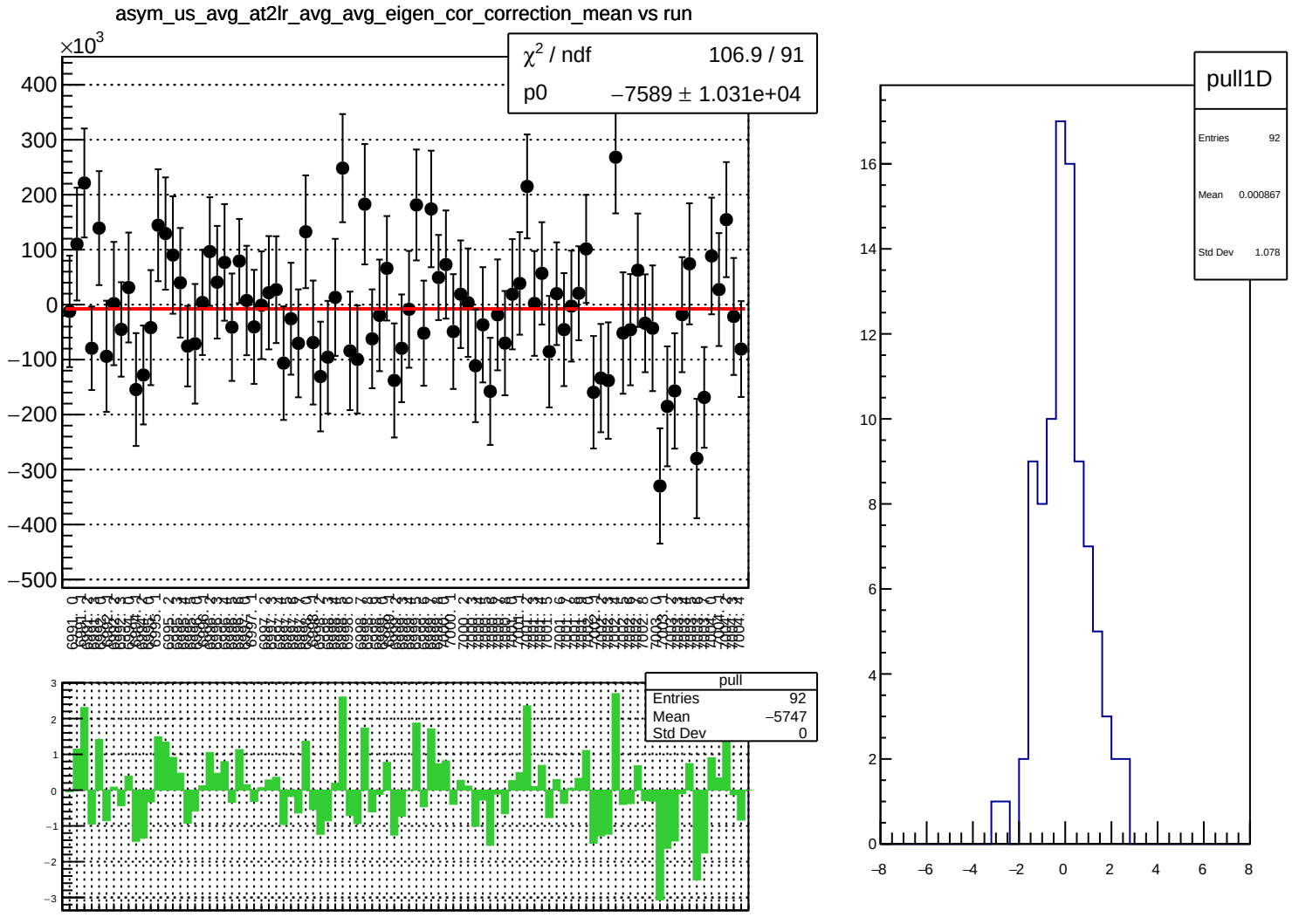

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 106.9 / 91
p0 −7589 ± 1.031e+04
pull
Entries 92
Mean −5747
Std Dev 0
pull1D
Entries 92
Mean 0.000867
Std Dev 1.078

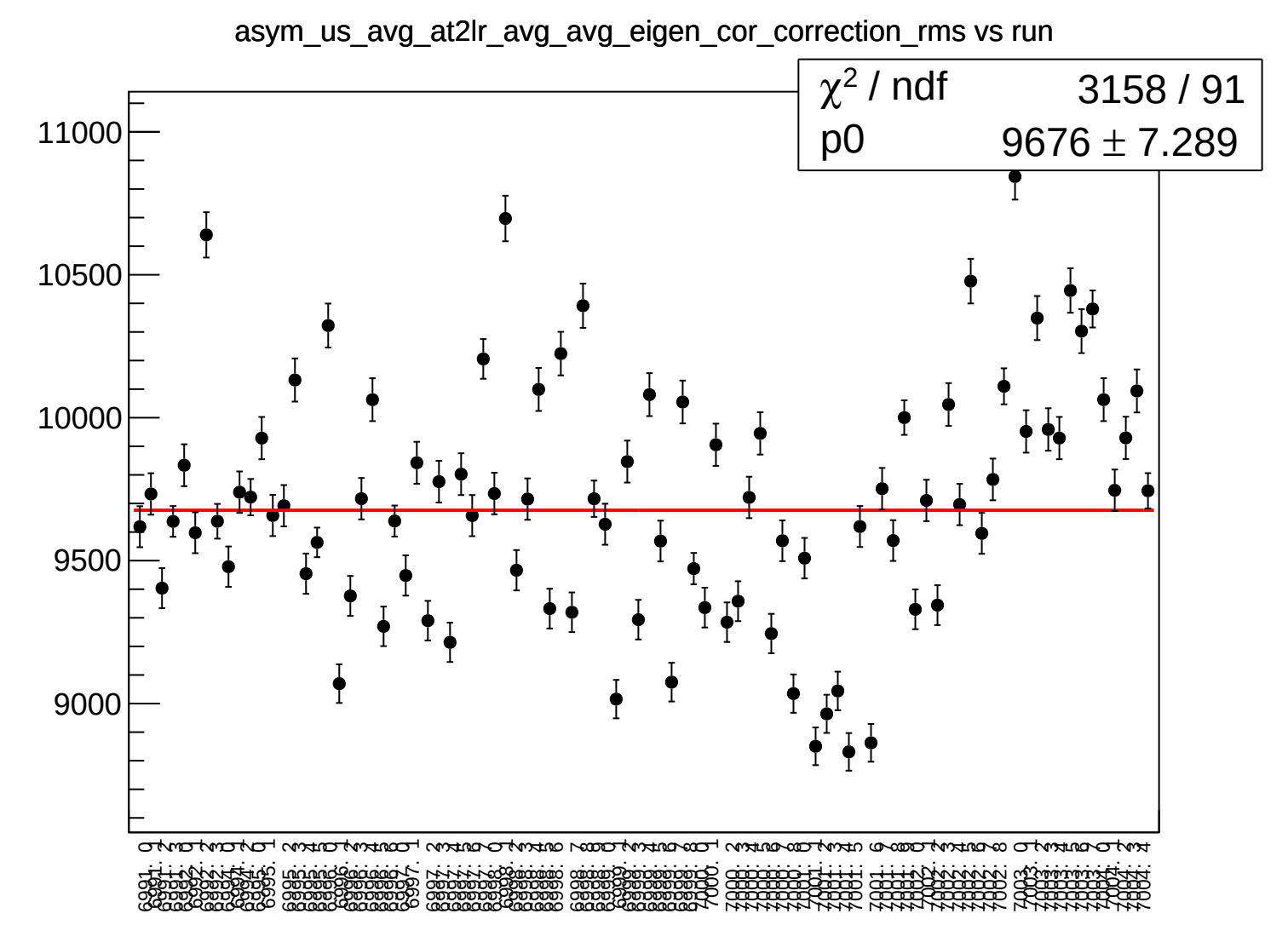

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3158 / 91
p0 9676 ± 7.289
11000
10500
10000
9500
9000

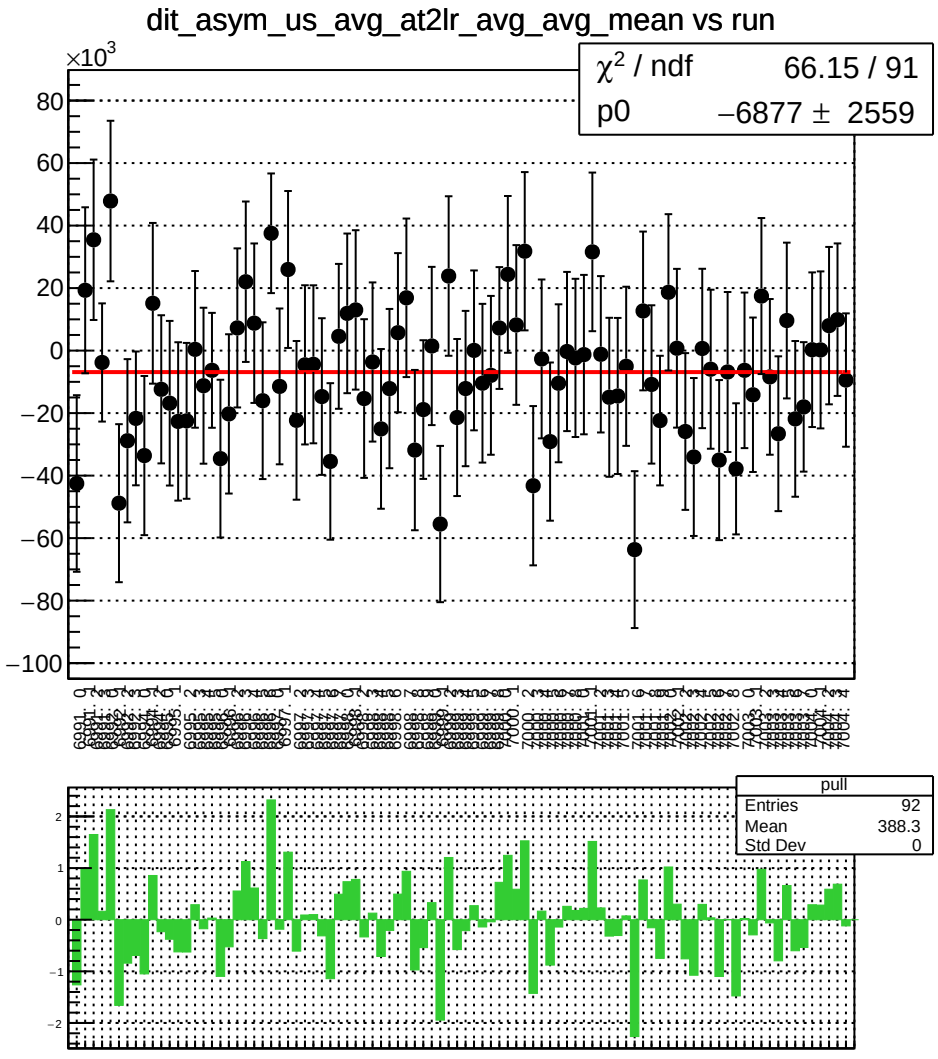

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 68.7 / 91
p0 −6001 ± 2436
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −79.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

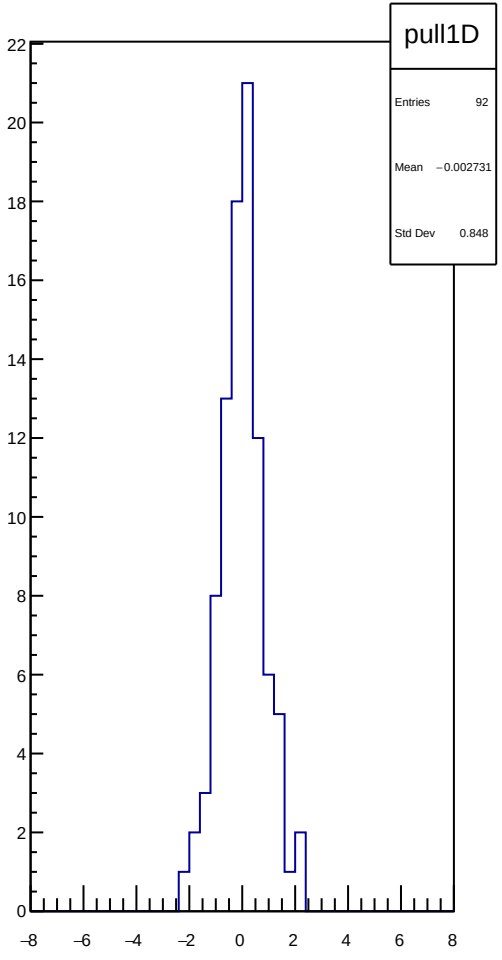

pull1D
Entries 92
Mean −0.006688
Std Dev 0.8641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

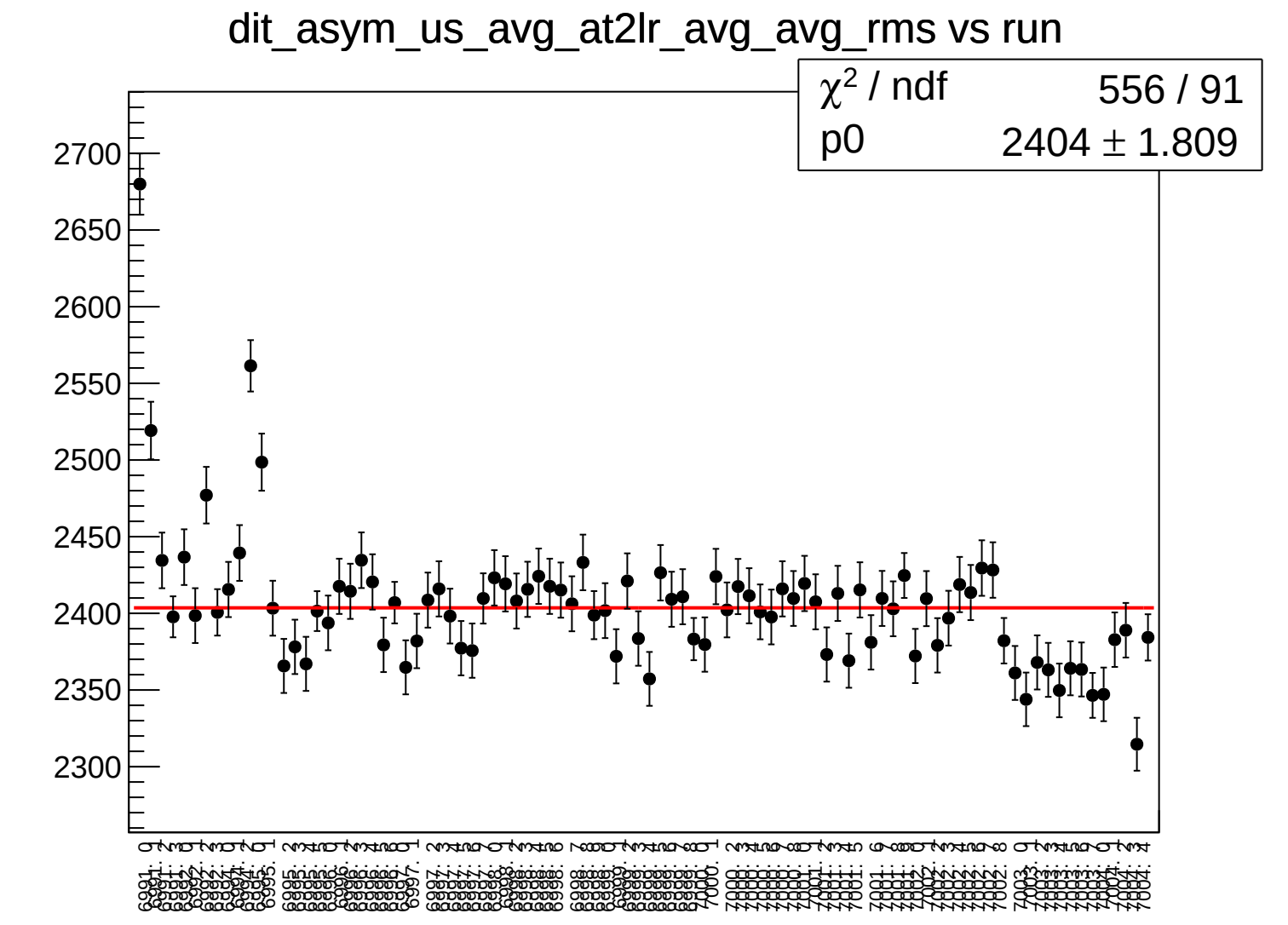

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 352.8 / 91
p0 2289 ± 1.723
2500
2450
2400
2350
2300
2250
2200

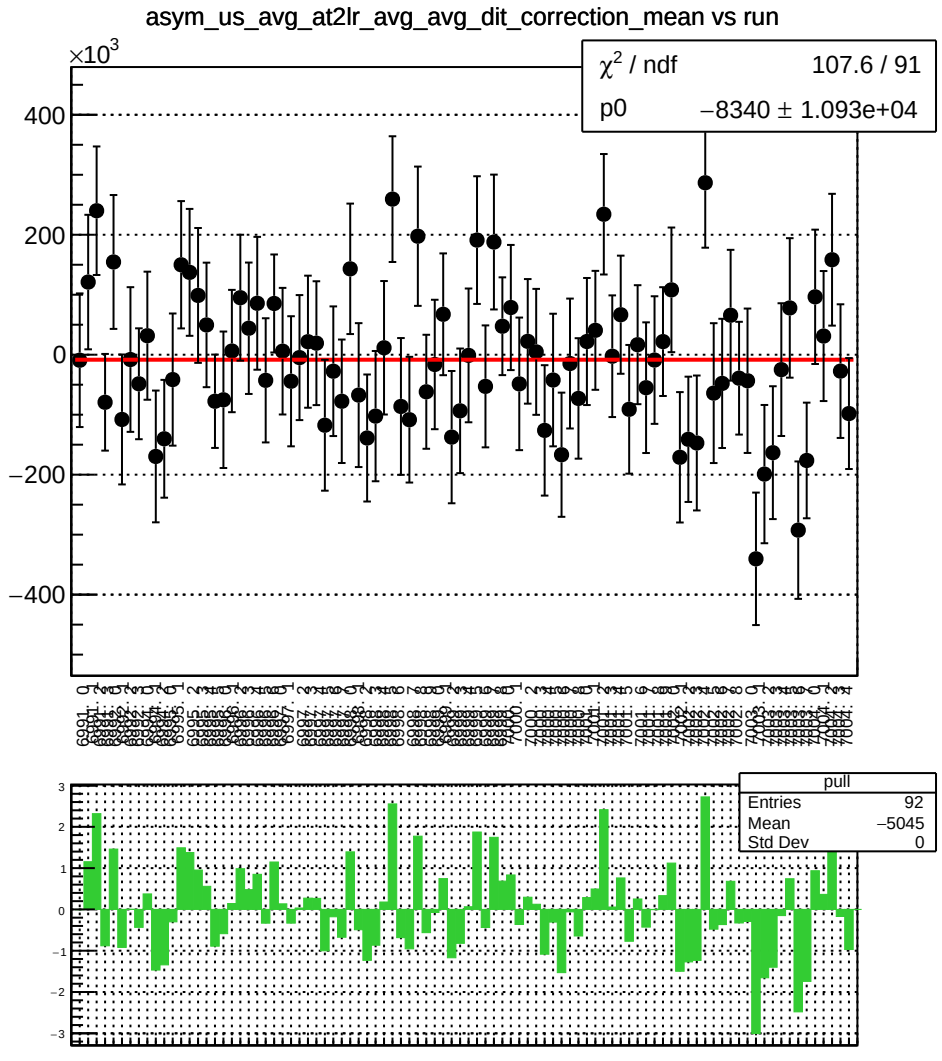

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 106.9 / 91
p0 −7589 ± 1.031e+04
pull
Entries 92
Mean −5747
Std Dev 0
pull1D
Entries 92
Mean 0.000867
Std Dev 1.078

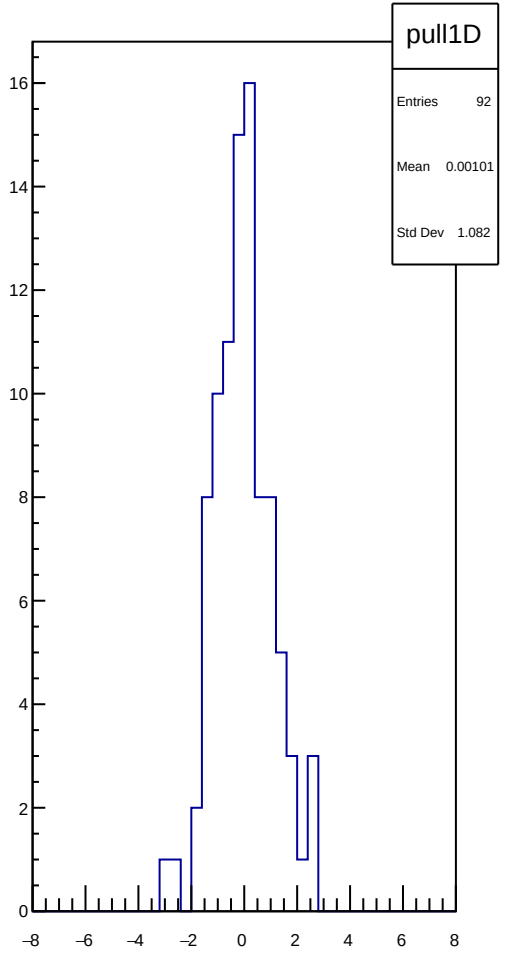

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3158 / 91
p0 9676 ± 7.289
11000
10500
10000
9500
9000

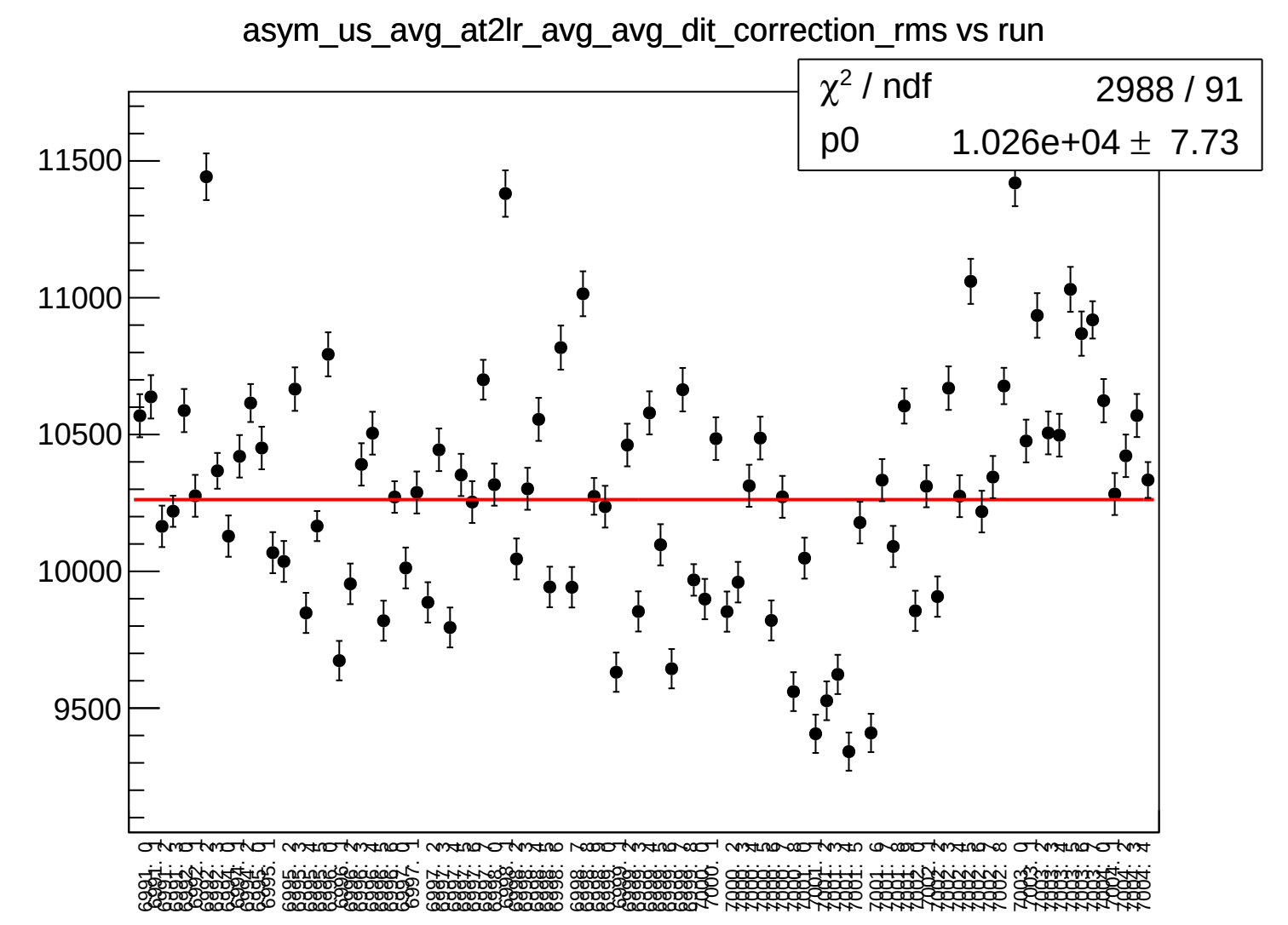

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 66.15 / 91
p0 −6877 ± 2559
pull
Entries 92
Mean 388.3
Std Dev 0

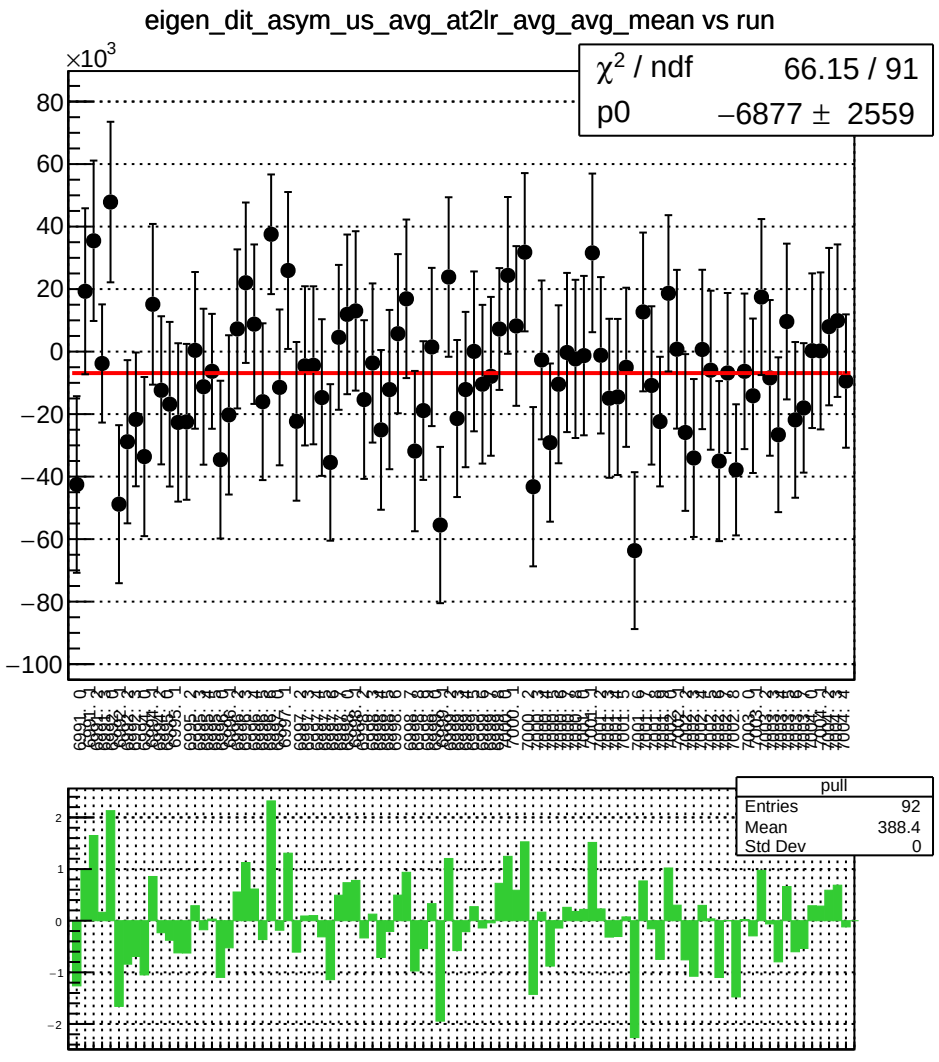

pull1D
Entries 92
Mean −0.002731
Std Dev 0.848

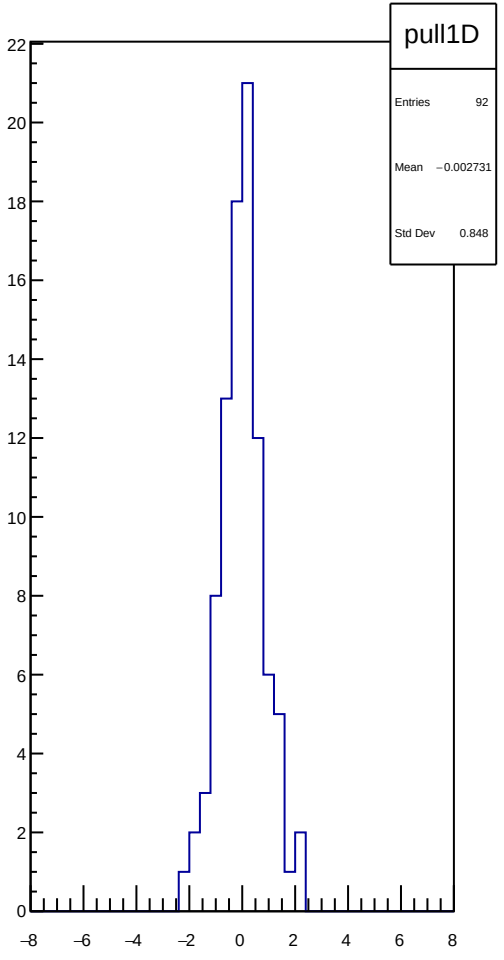

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 556 / 91
p0 2404 ± 1.809
2700
2650
2600
2550
2500
2450
2400
2350
2300

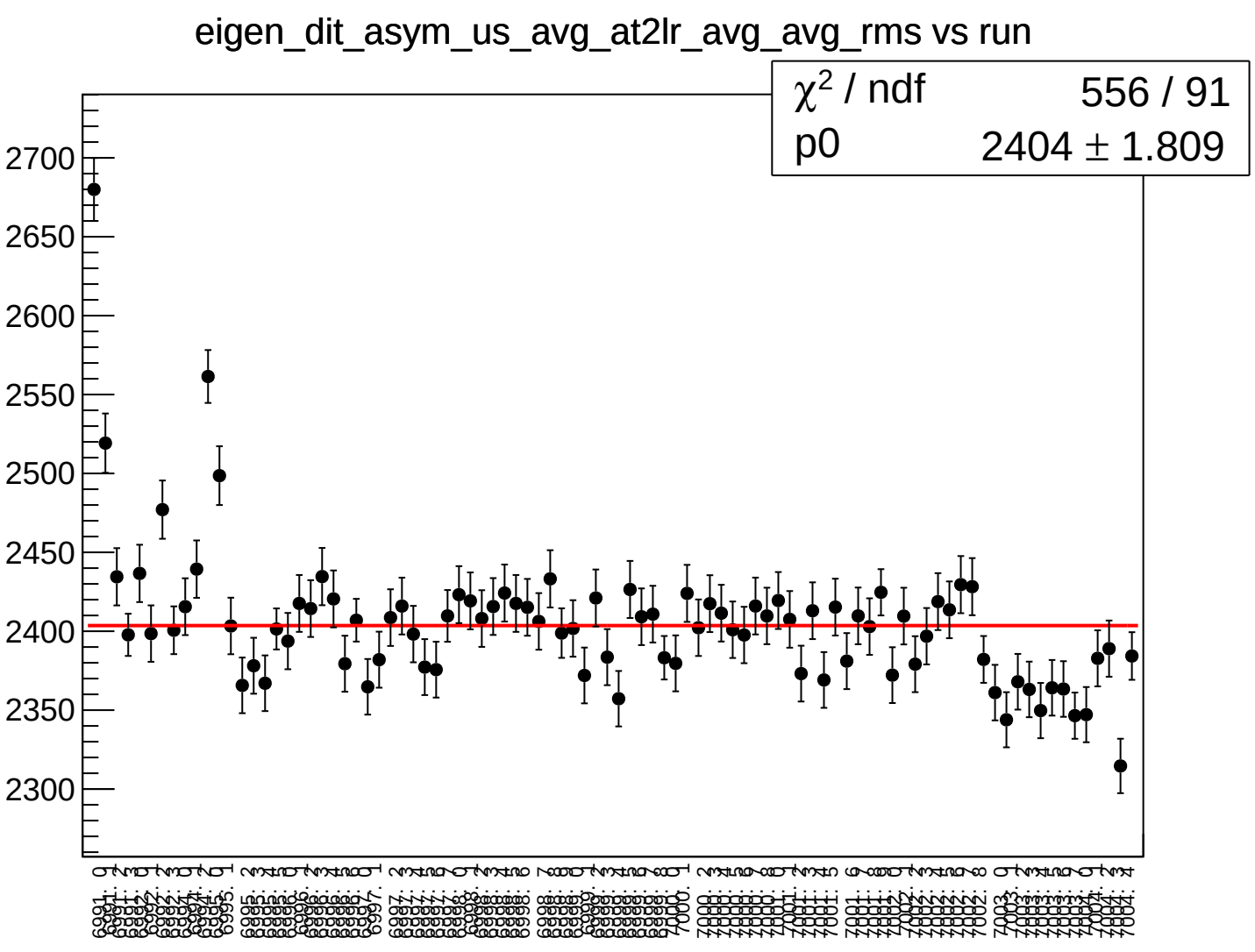

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 107.6 / 91
p0 −8340 ± 1.093e+04
400
200
0
−200
−400
pull
Entries 92
Mean −5045
Std Dev 0
3
2
1
0
−1
−2
−3

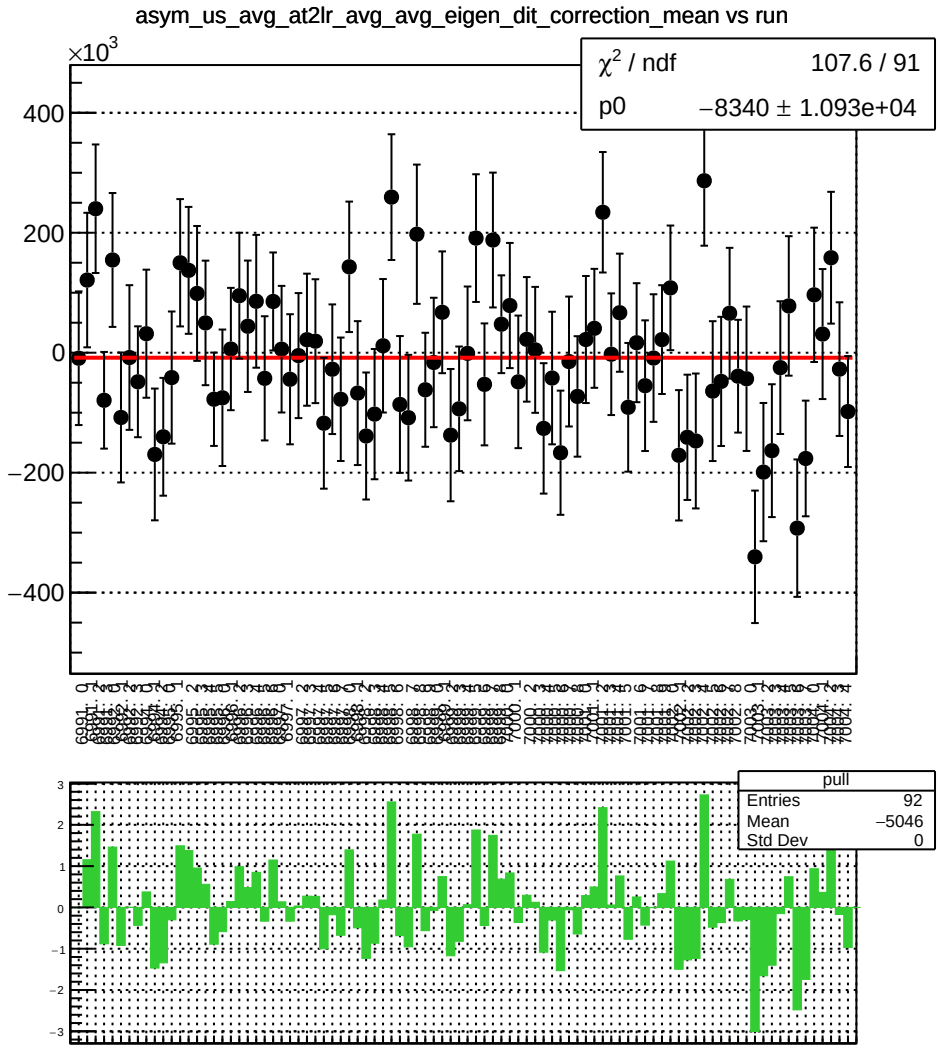

pull1D
Entries 92
Mean 0.00101
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

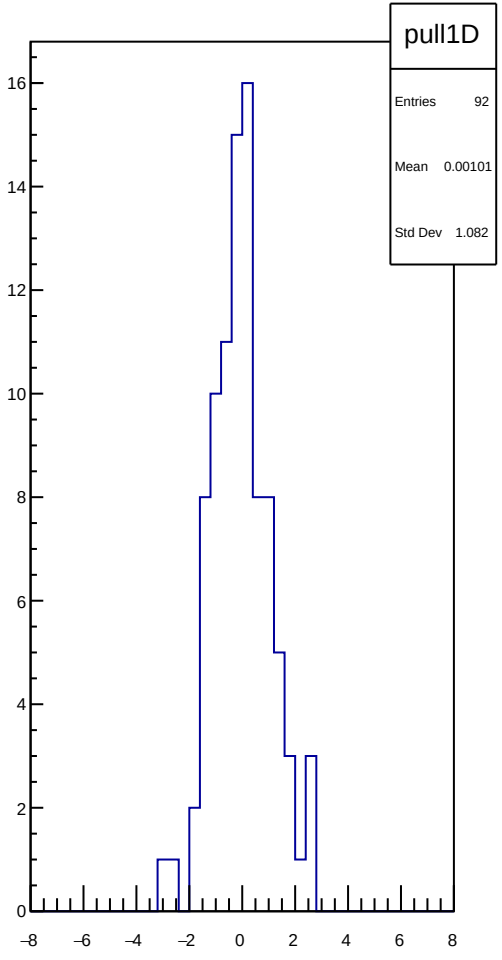

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 2988 / 91
p0 1.026e+04 ± 7.73
11500
11000
10500
10000
9500

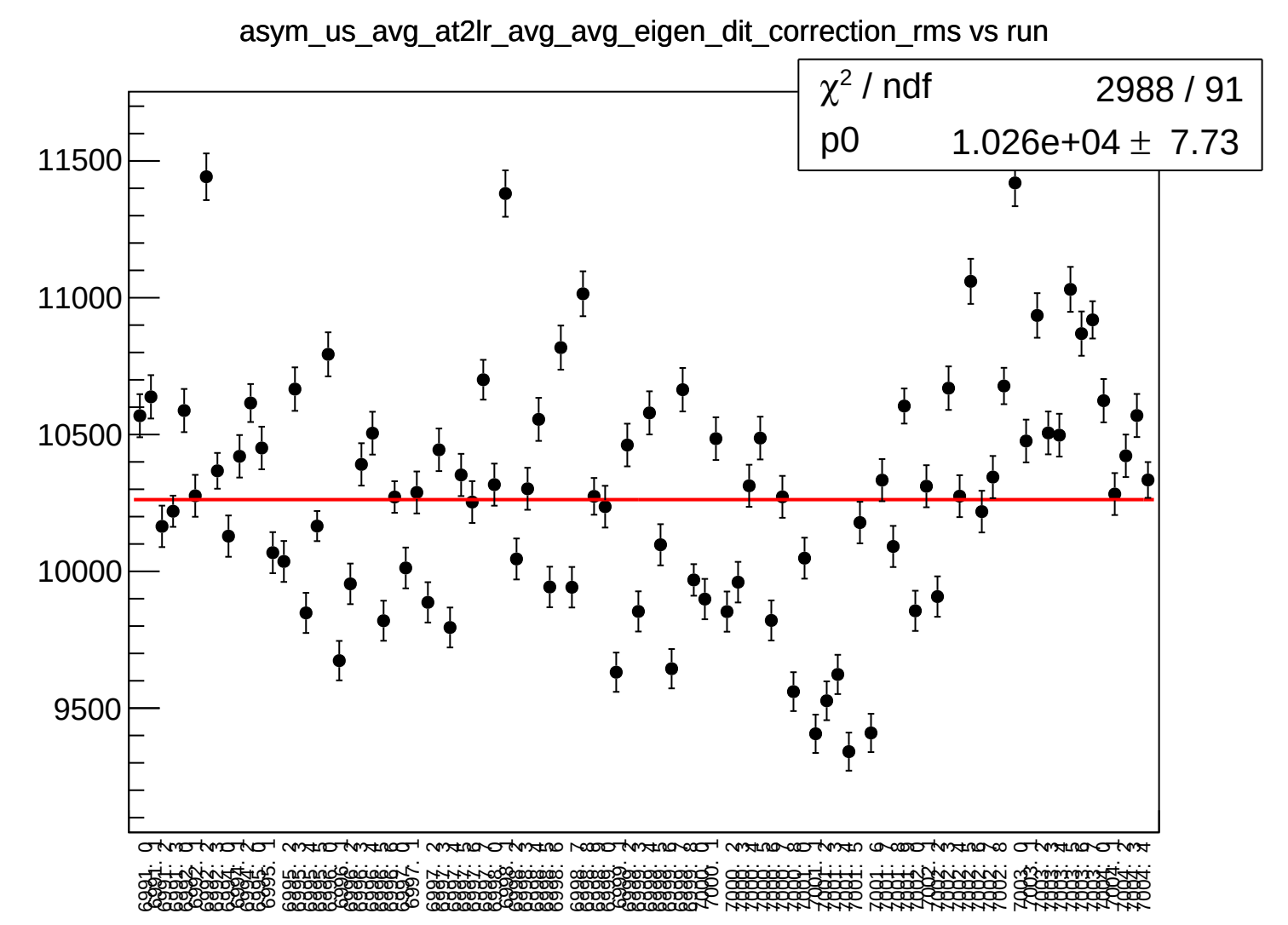

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 66.15 / 91
p0 −6877 ± 2559
pull
Entries 92
Mean 388.4
Std Dev 0

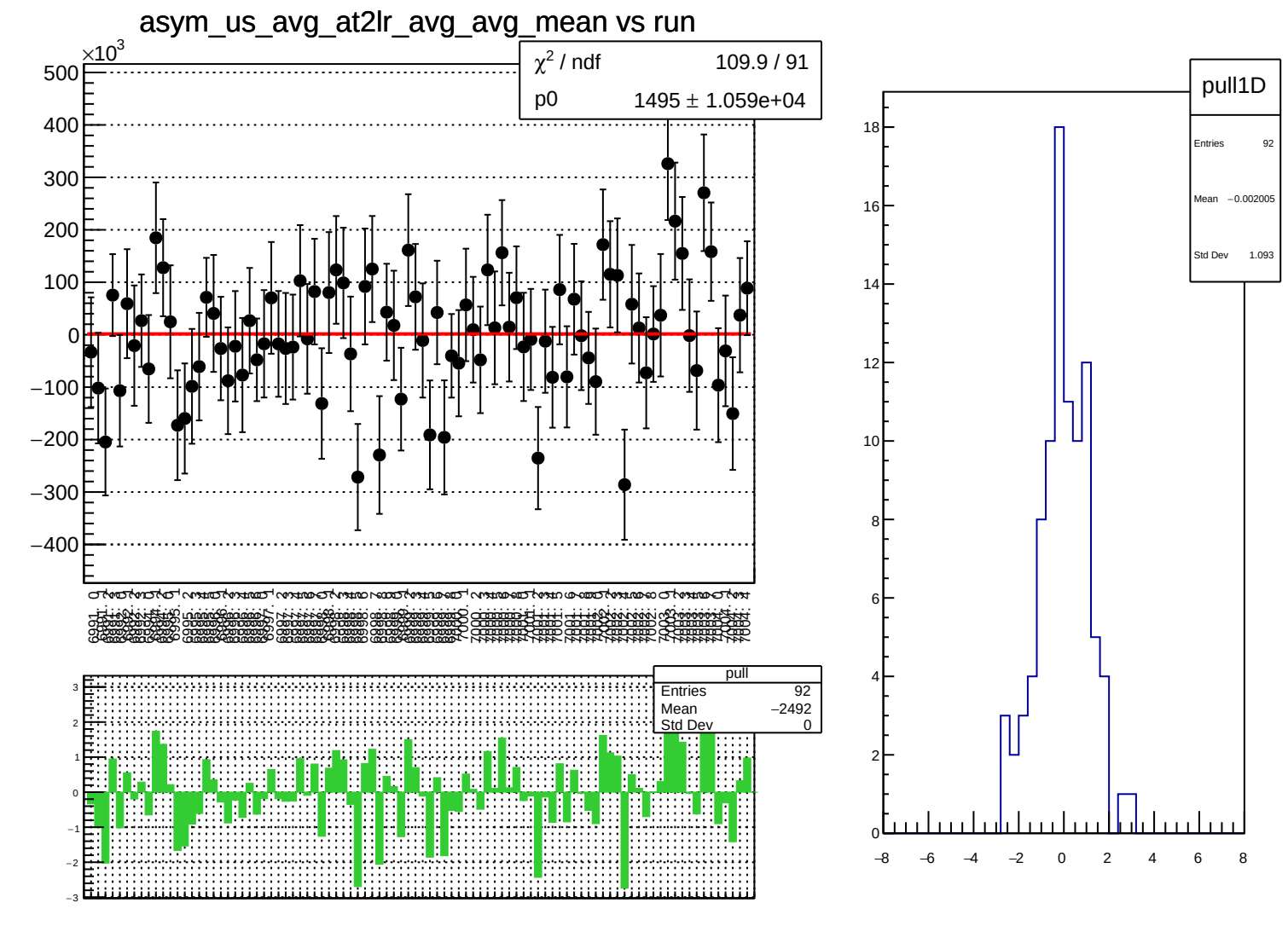

pull1D
Entries 92
Mean −0.002731
Std Dev 0.848

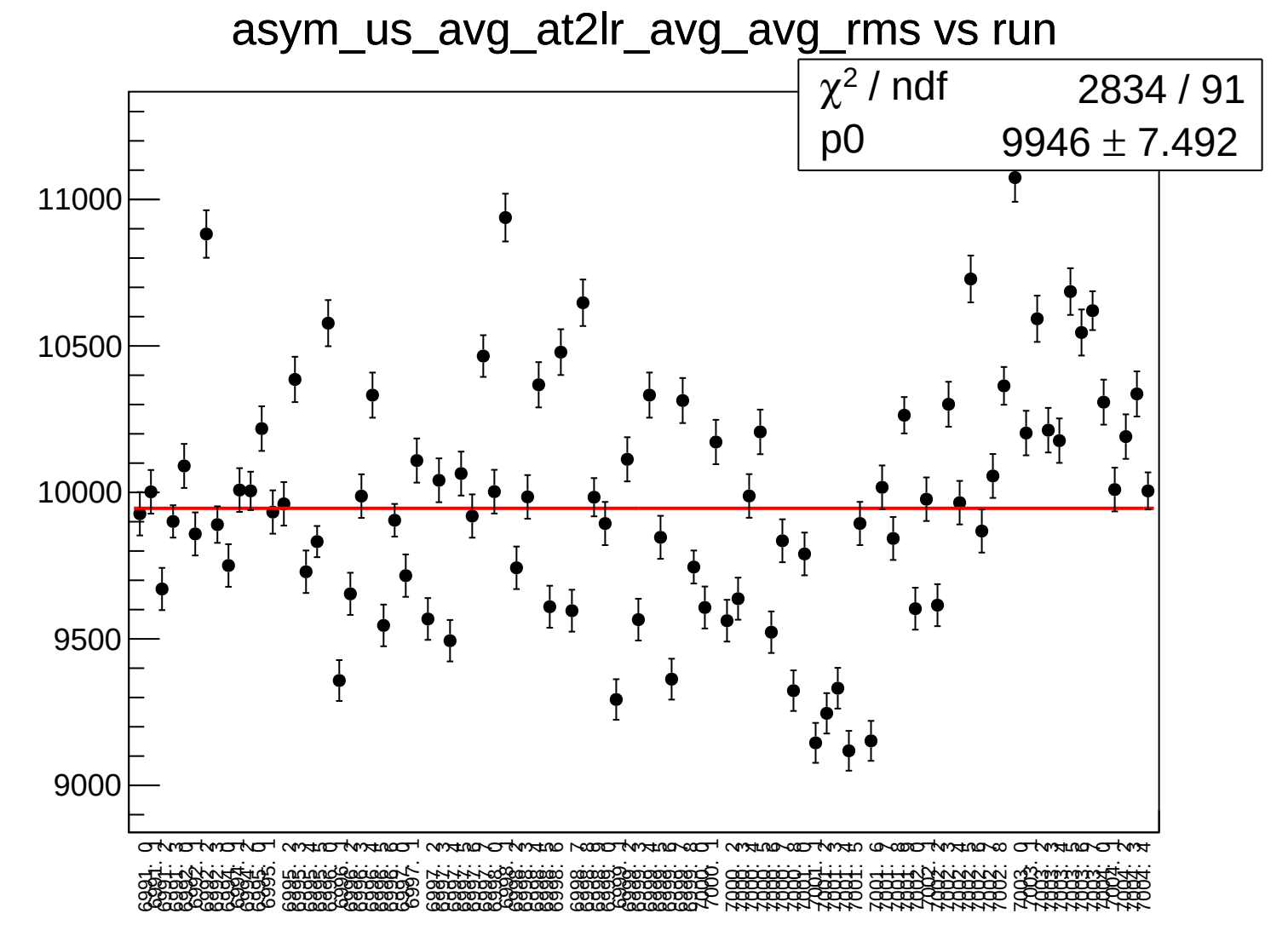

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 556 / 91
p0 2404 ± 1.809
2700
2650
2600
2550
2500
2450
2400
2350
2300

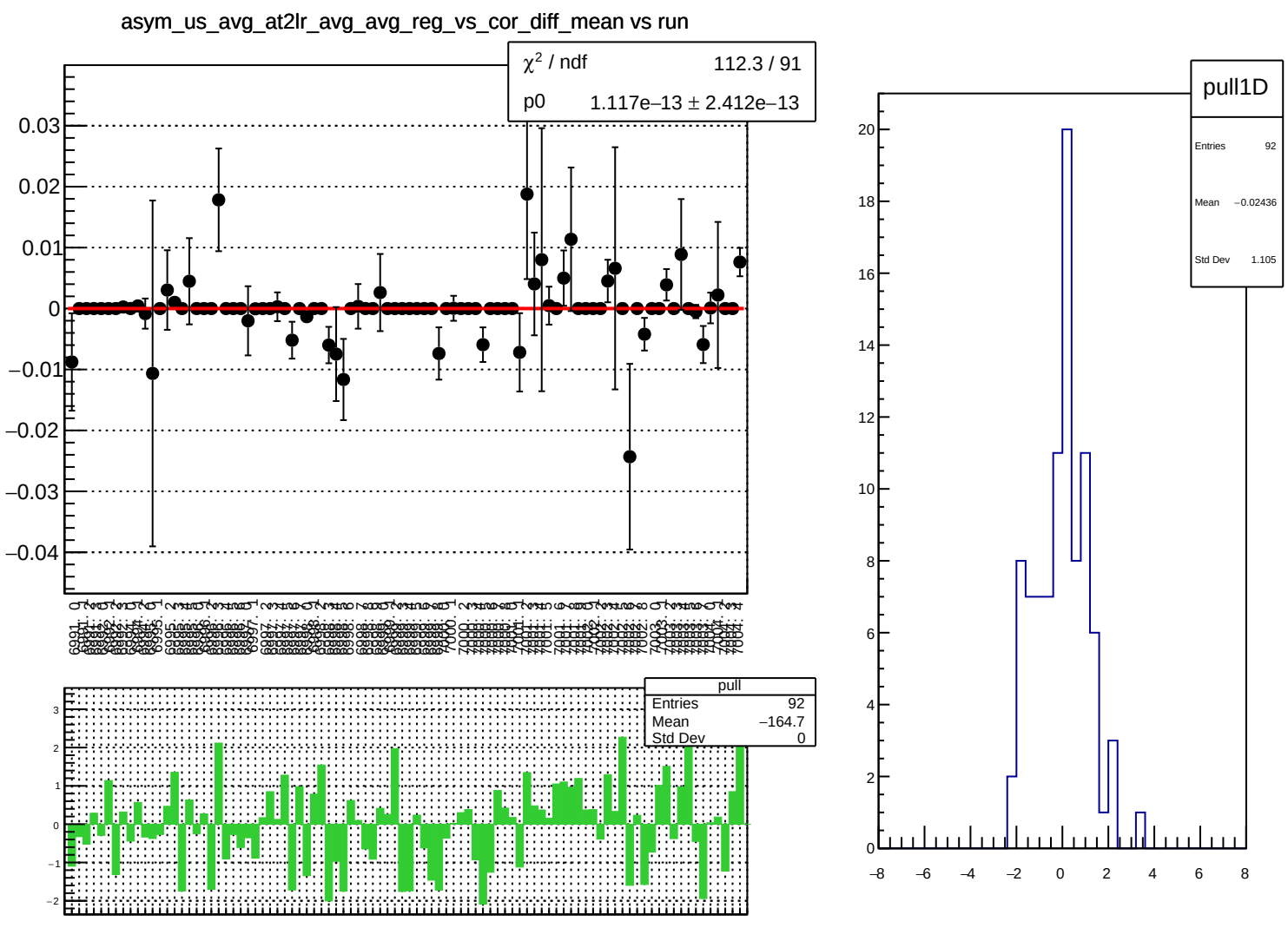

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.6 / 91
p0 −8340 ± 1.093e+04
400
200
0
−200
−400
pull
Entries 92
Mean −5046
Std Dev 0
3
2
1
0
−1
−2
−3

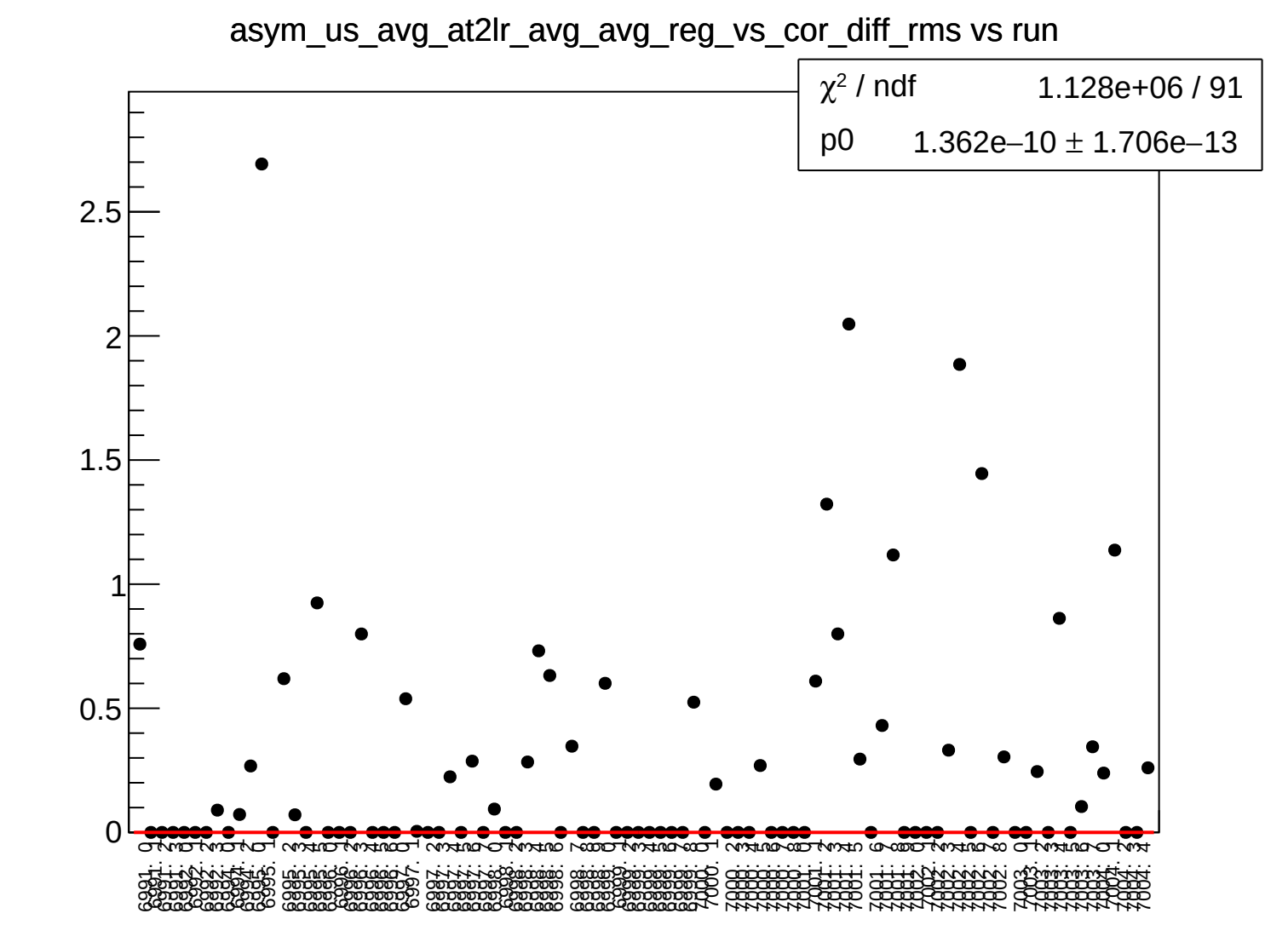

pull1D
Entries 92
Mean 0.00101
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

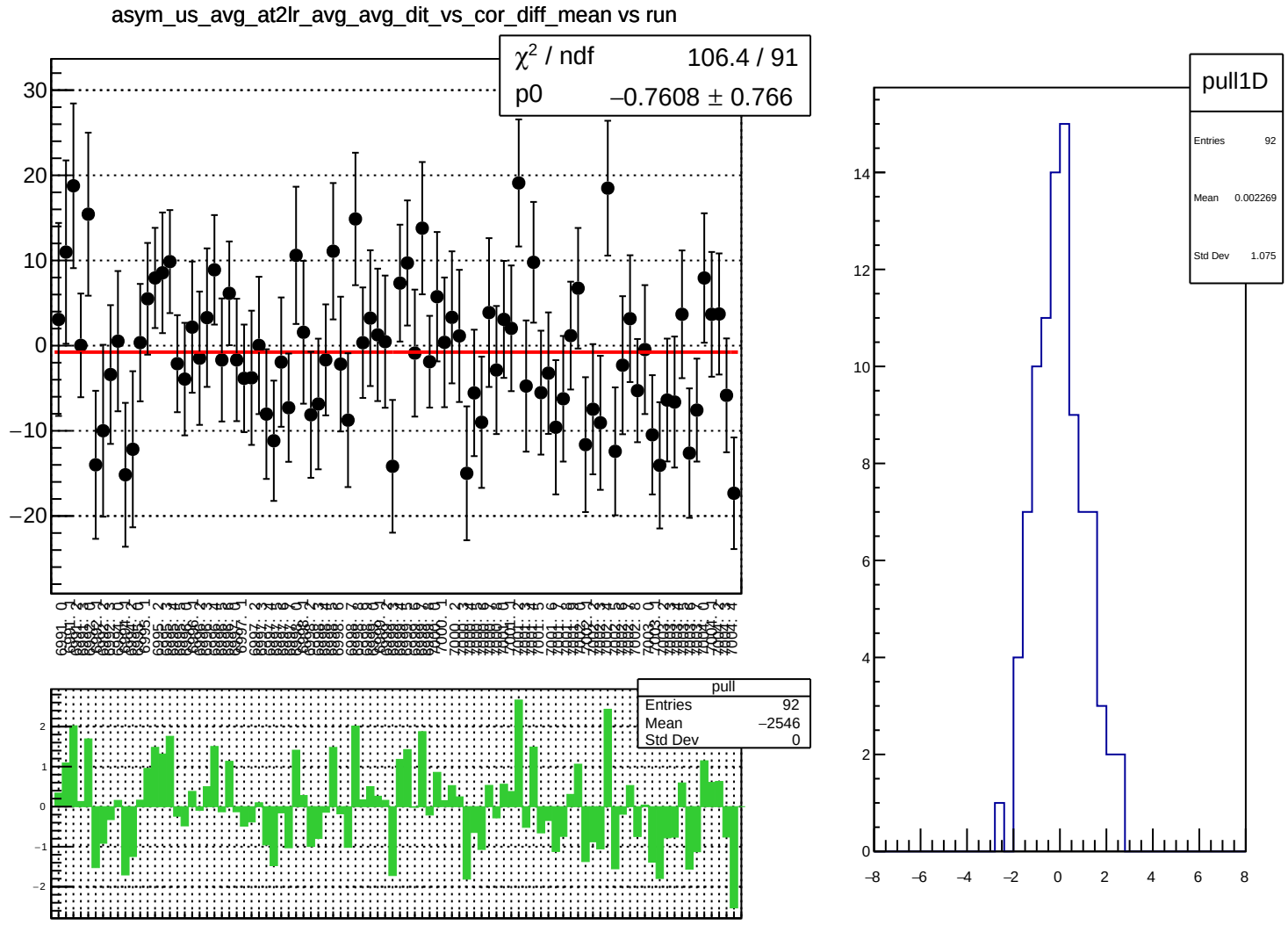

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2988 / 91
p0 1.026e+04 ± 7.73
11500
11000
10500
10000
9500

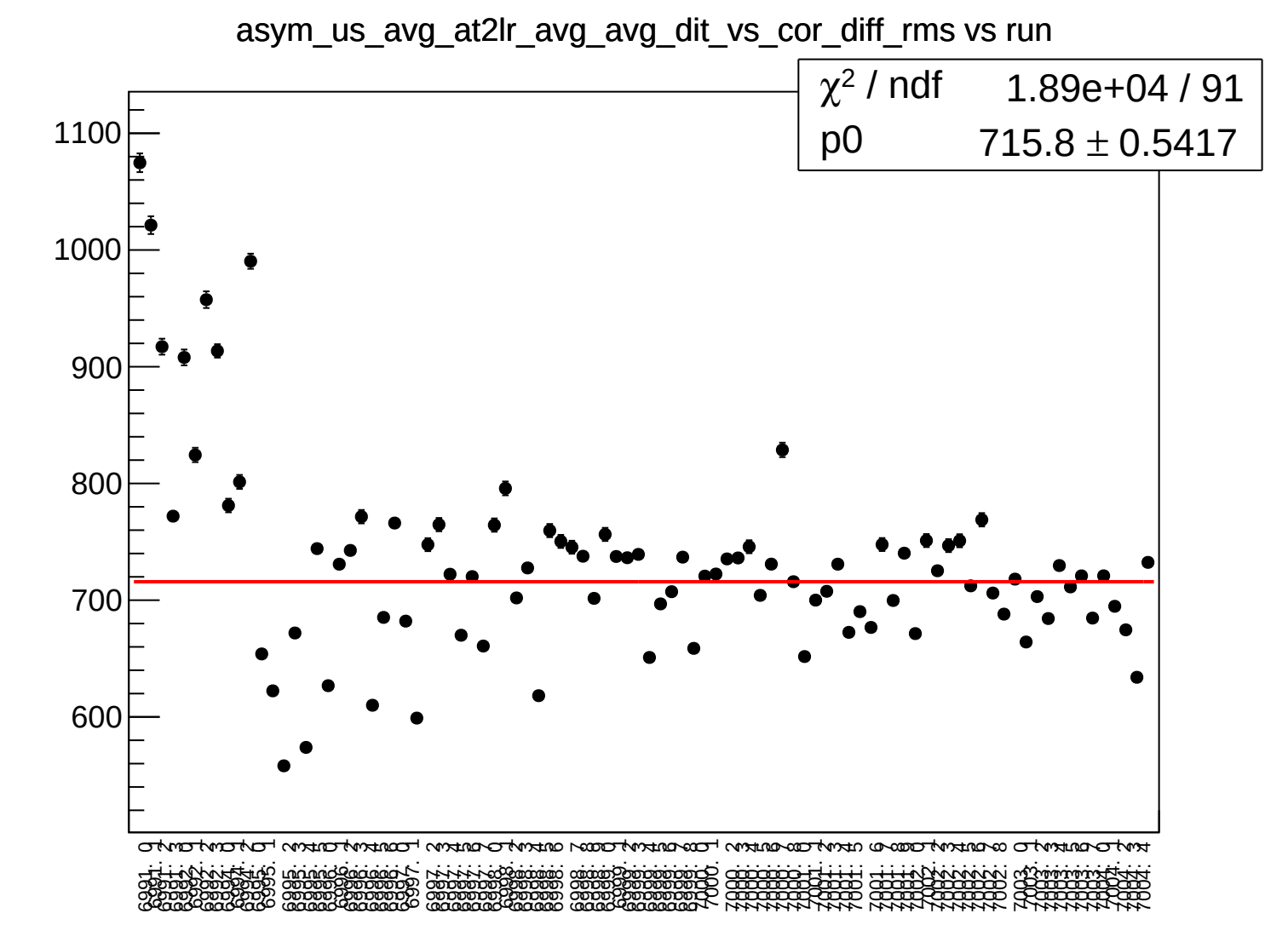

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 109.9 / 91
p0 1495 ± 1.059e+04
pull
Entries 92
Mean −2492
Std Dev 0
pull1D
Entries 92
Mean −0.002005
Std Dev 1.093

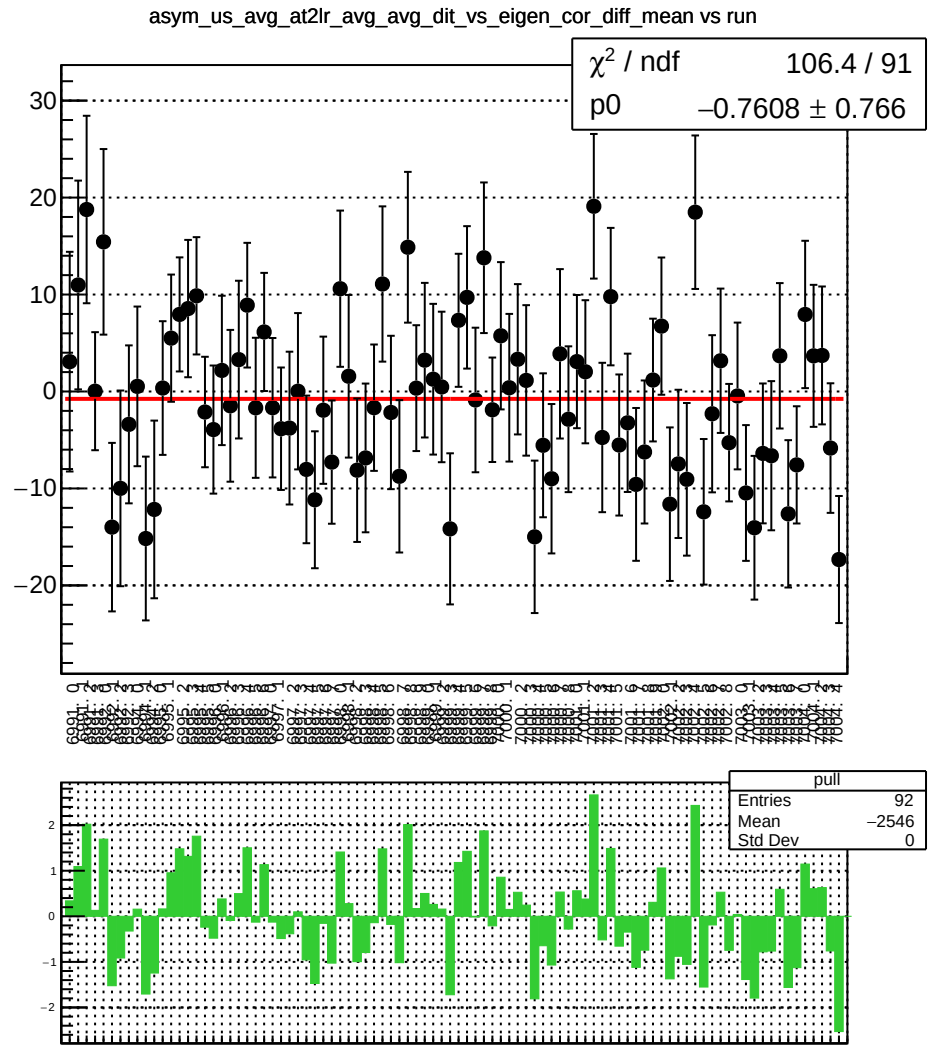

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2834 / 91
p0 9946 ± 7.492
11000
10500
10000
9500
9000

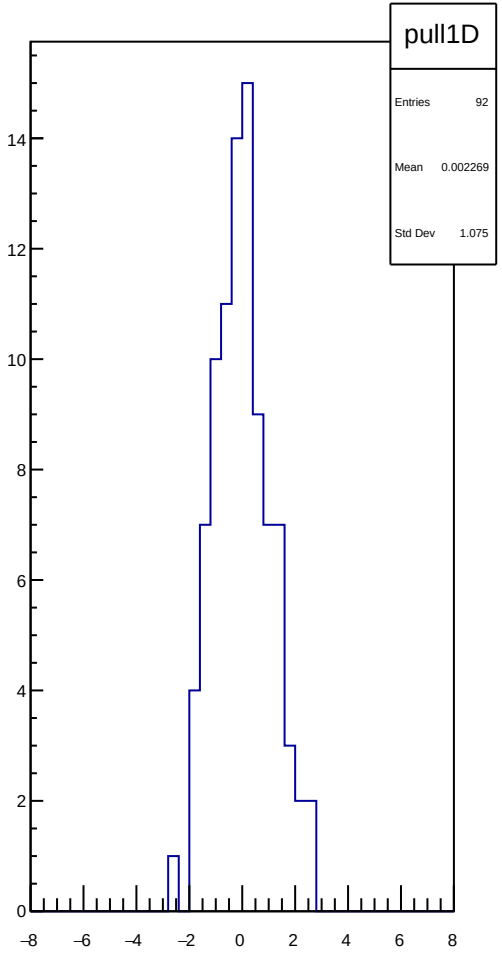

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 91
p0 1.117e−13 ± 2.412e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 92
Mean −164.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.02436
Std Dev 1.105
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

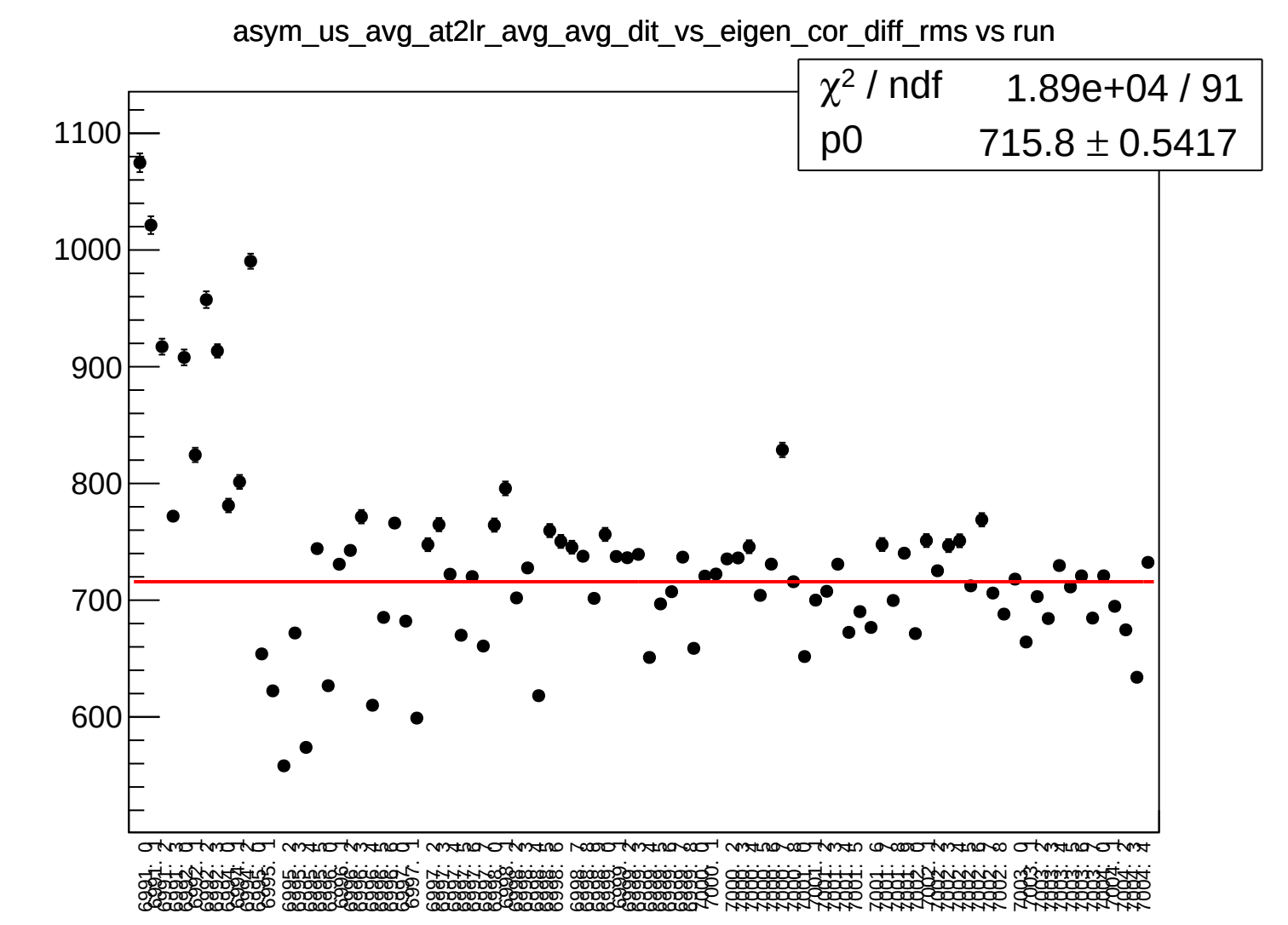

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.128e+06 / 91
p0 1.362e−10 ± 1.706e−13
2.5
2
1.5
1
0.5
0

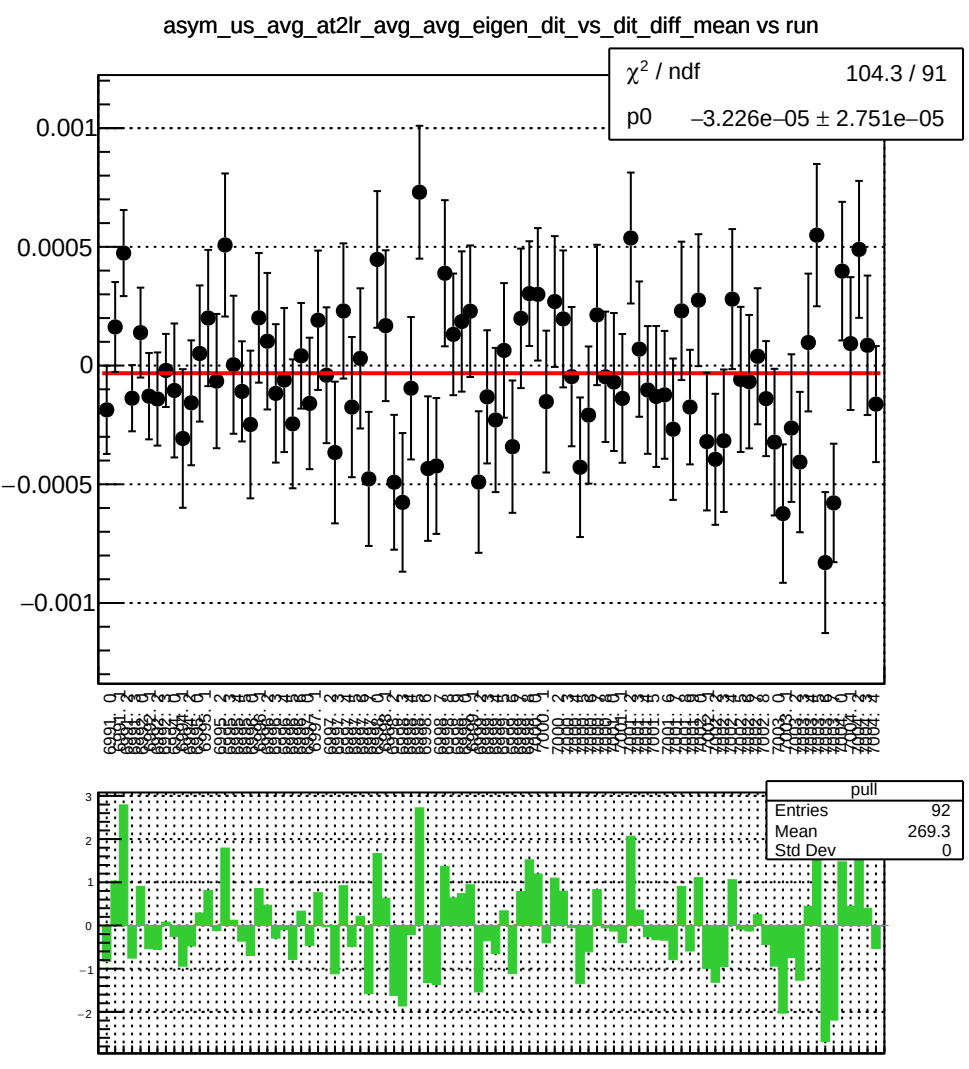

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 91
p0 −0.7608 ± 0.766
pull
Entries 92
Mean −2546
Std Dev 0
pull1D
Entries 92
Mean 0.002269
Std Dev 1.075

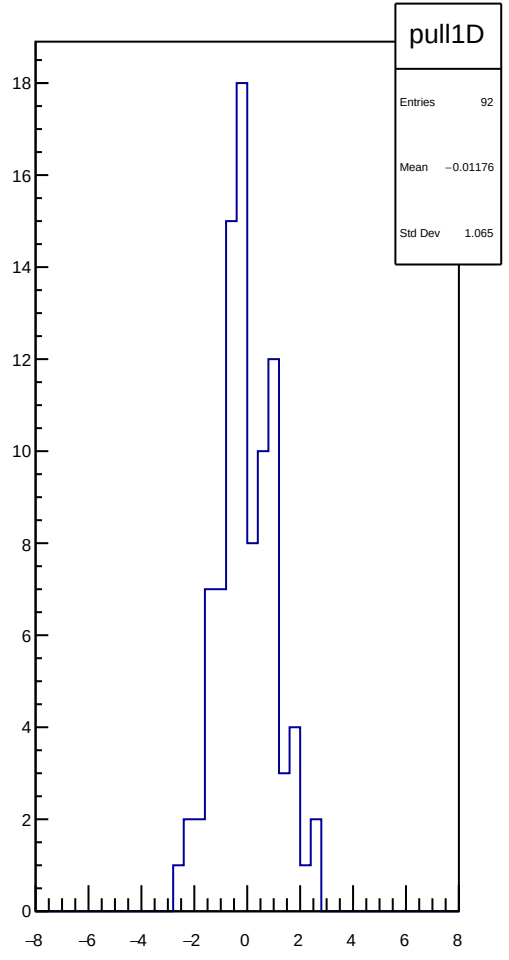

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.89e+04 / 91
p0 715.8 ± 0.5417
1100
1000
900
800
700
600

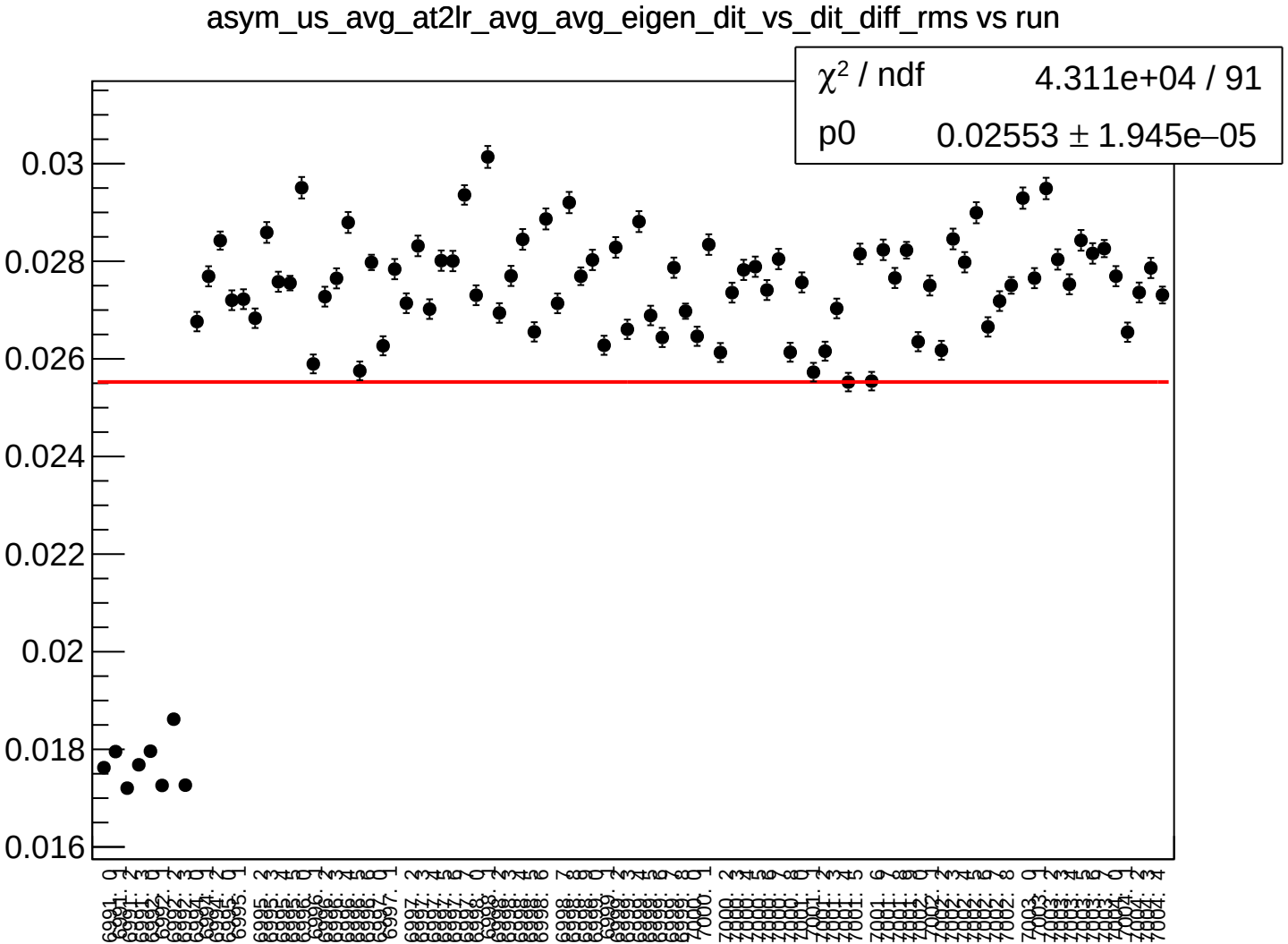

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.4 / 91
p0 −0.7608 ± 0.766
pull
Entries 92
Mean −2546
Std Dev 0

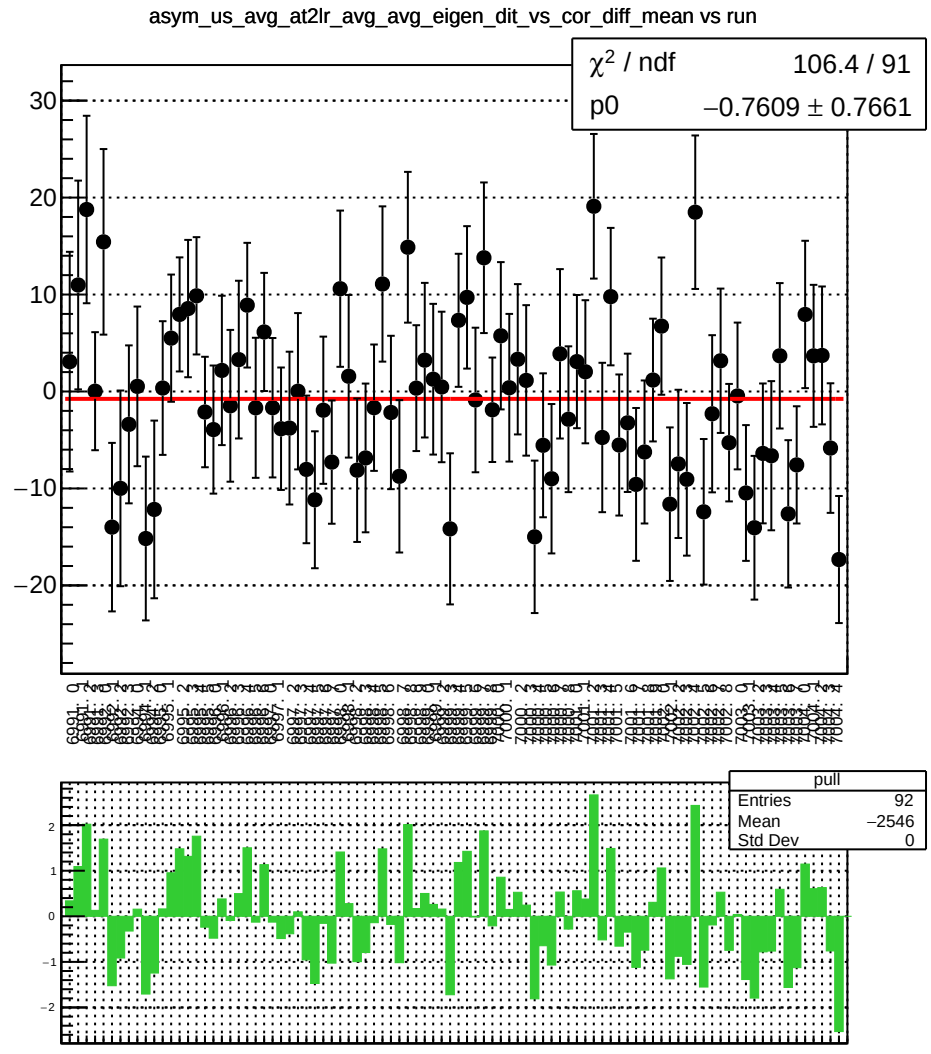

pull1D
Entries 92
Mean 0.002269
Std Dev 1.075

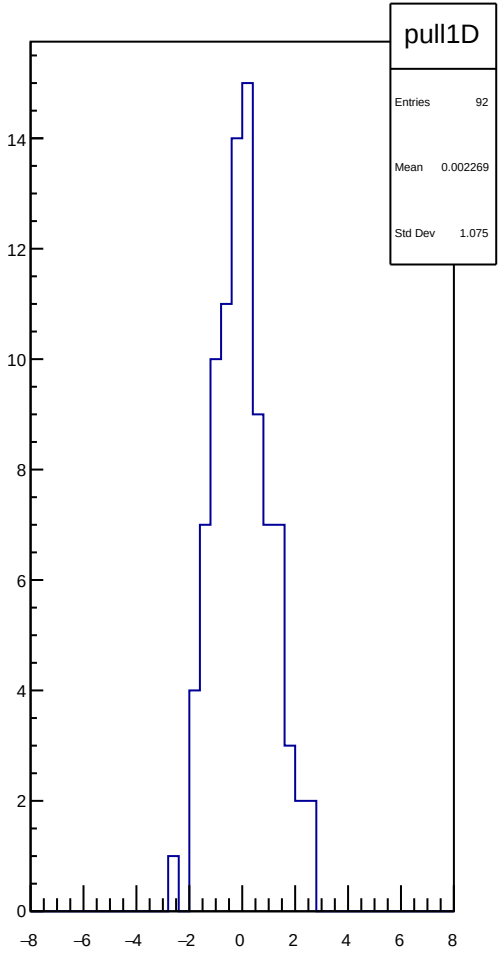

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.89e+04 / 91
p0 715.8 ± 0.5417
1100
1000
900
800
700
600

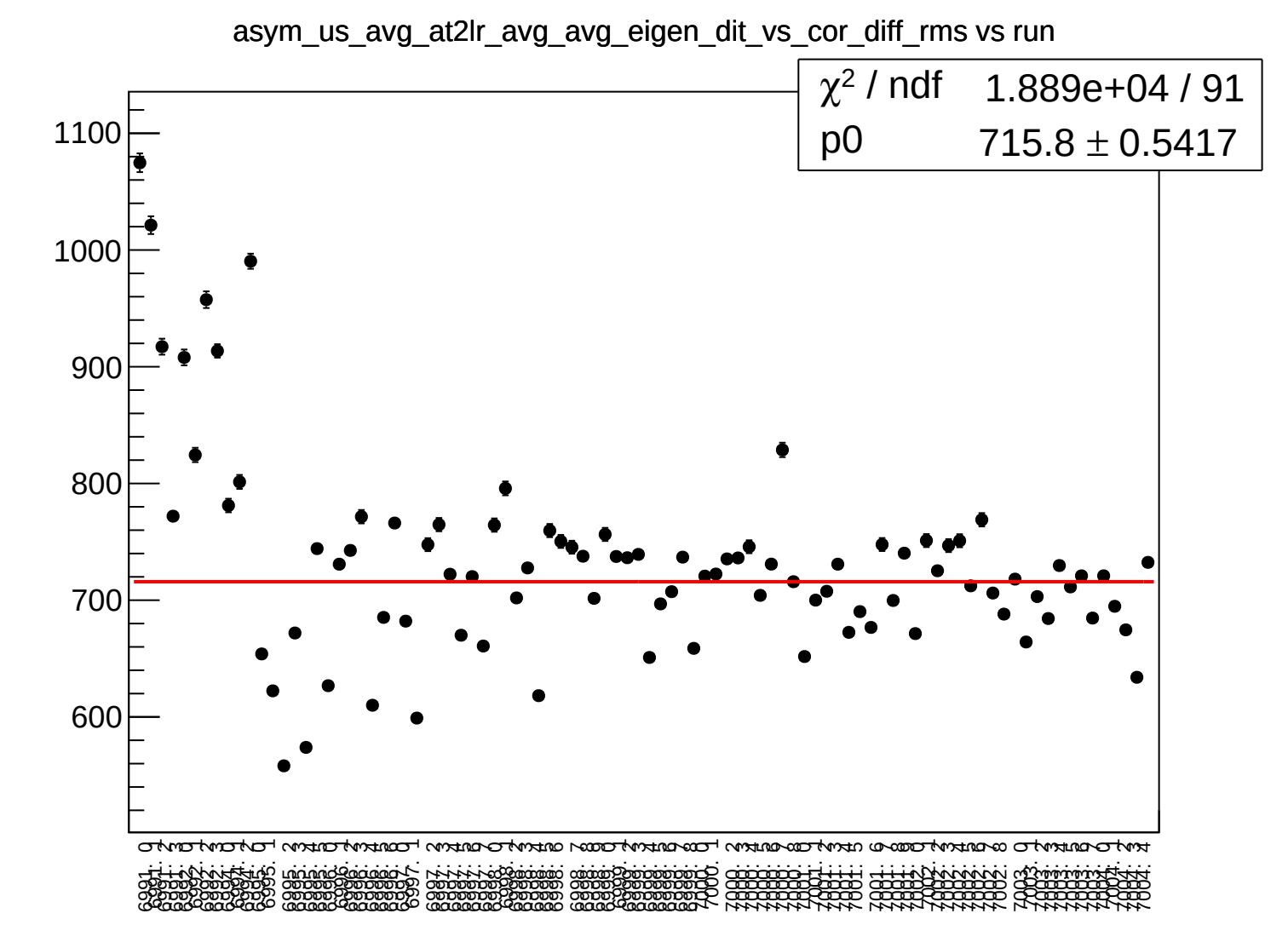

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 104.3 / 91
p0 −3.226e−05 ± 2.751e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 269.3
Std Dev 0
3
2
1
0
−1
−2

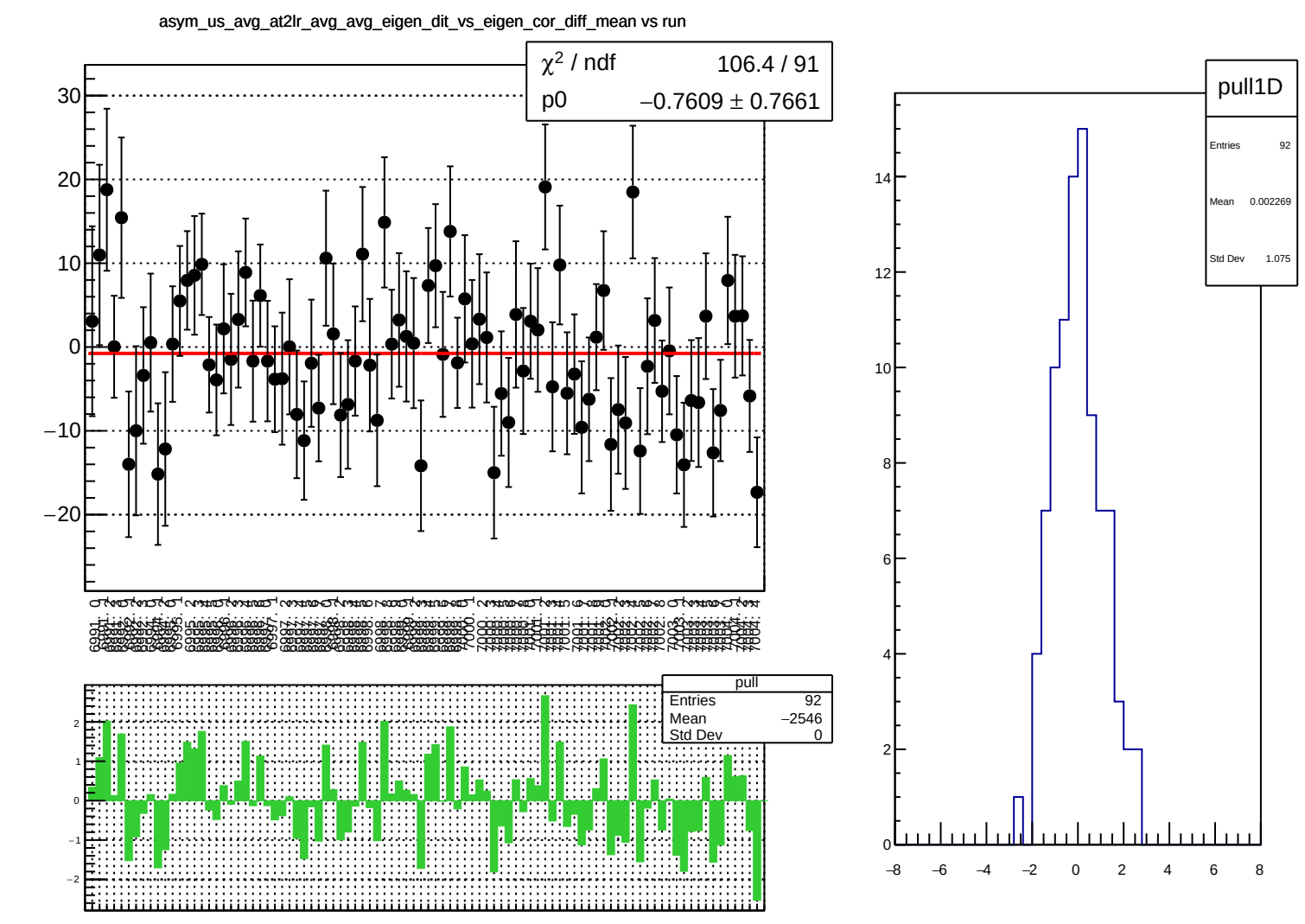

pull1D
Entries 92
Mean −0.01176
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

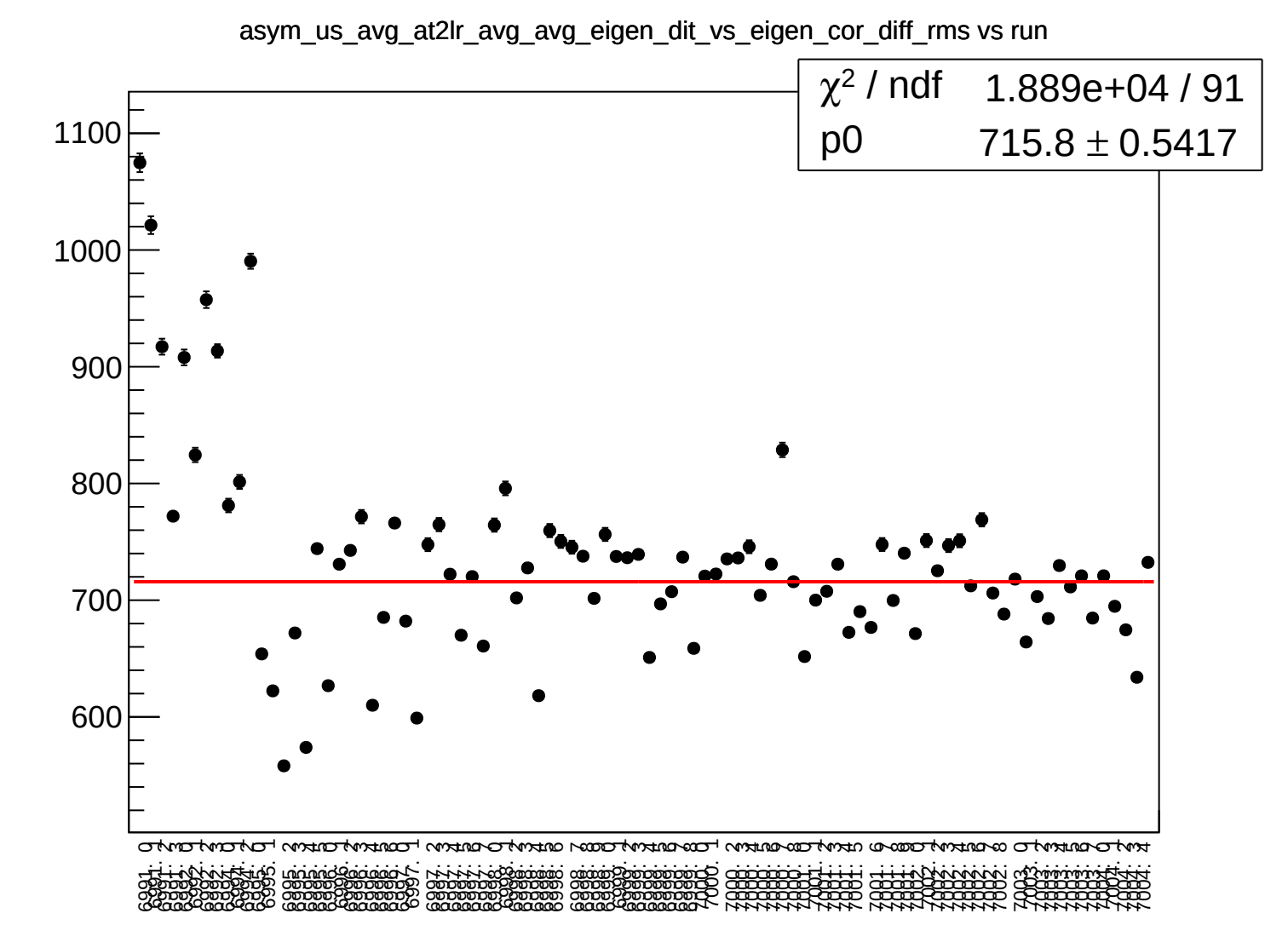

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.311e+04 / 91
p0 0.02553 ± 1.945e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

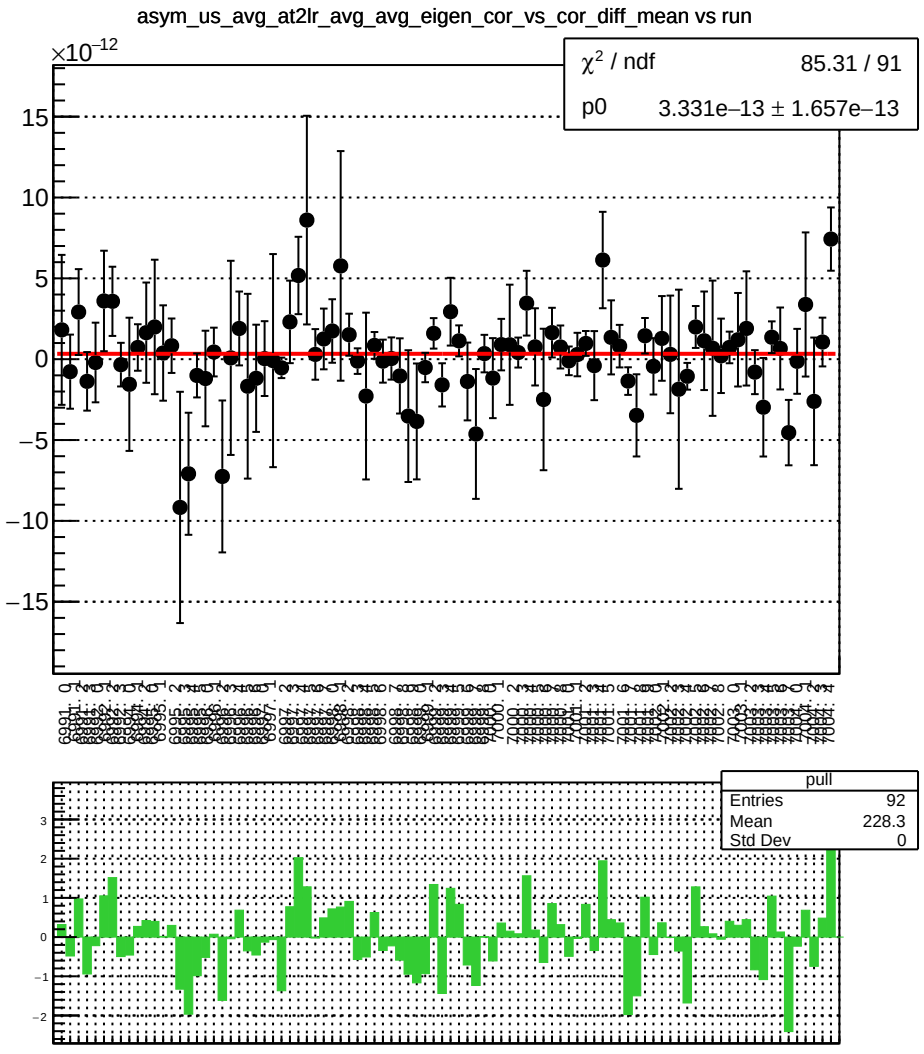

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 91
p0 −0.7609 ± 0.7661
pull
Entries 92
Mean −2546
Std Dev 0

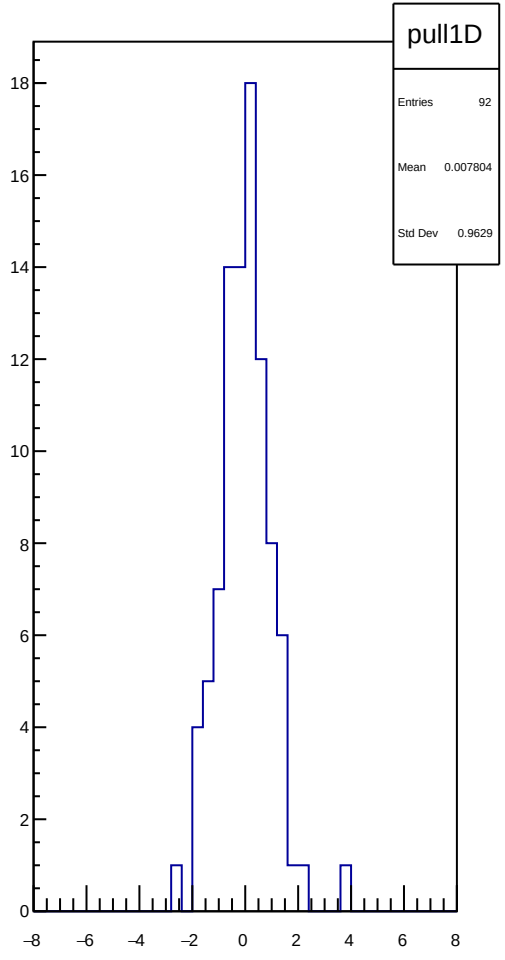

pull1D
Entries 92
Mean 0.002269
Std Dev 1.075

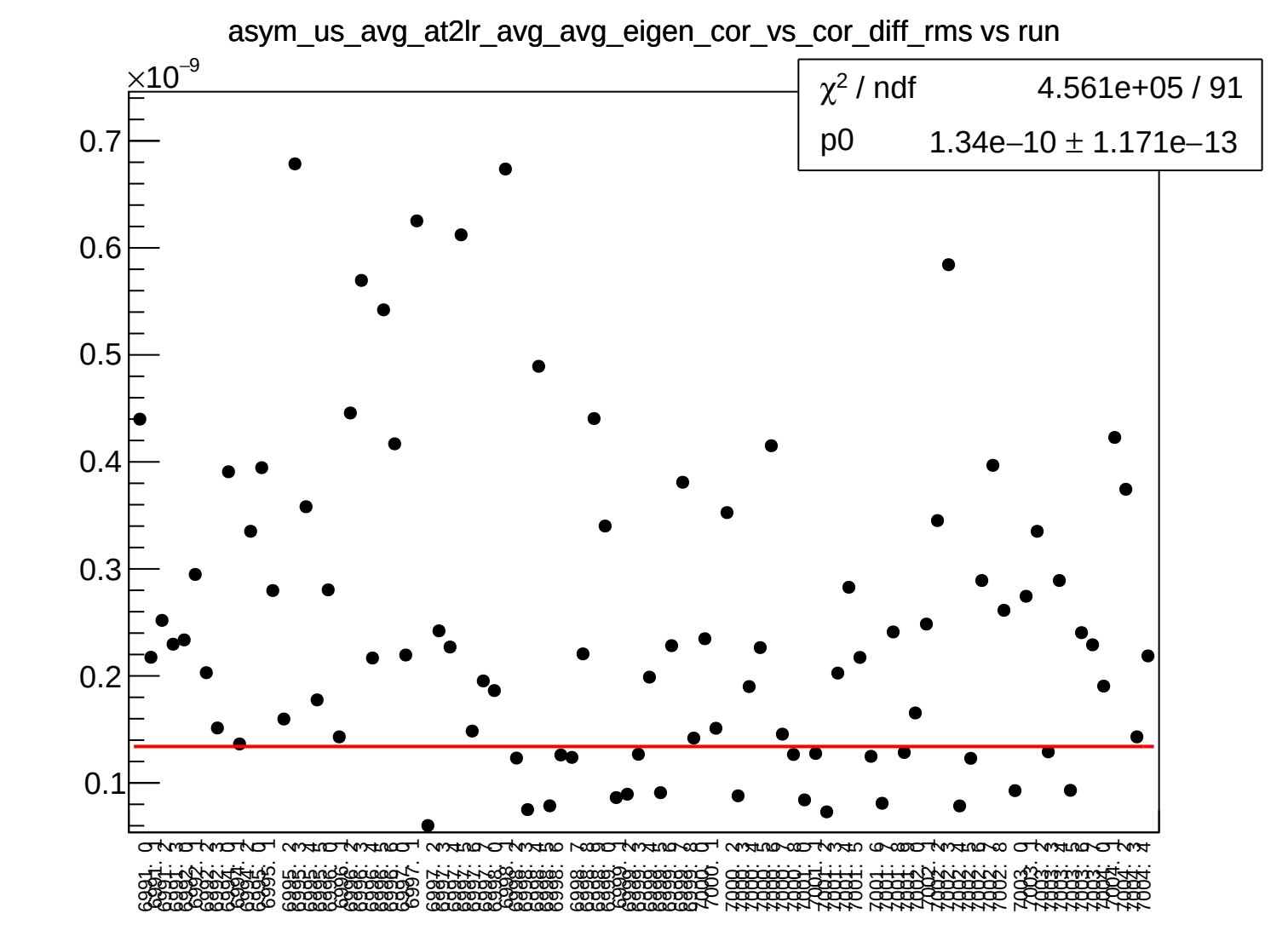

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.889e+04 / 91
p0 715.8 ± 0.5417
1100
1000
900
800
700
600

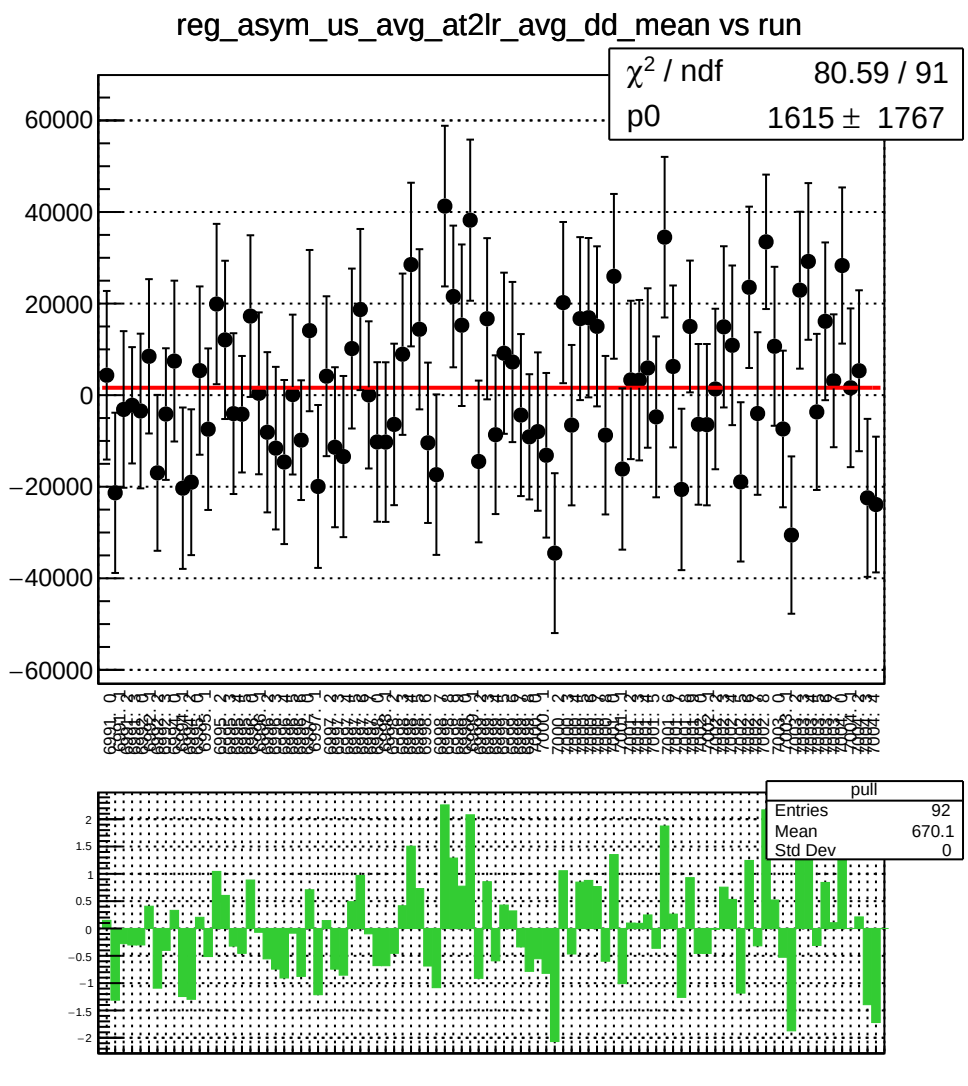

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.4 / 91
p0 −0.7609 ± 0.7661
30
20
10
0
−10
−20
pull
Entries 92
Mean −2546
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002269
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

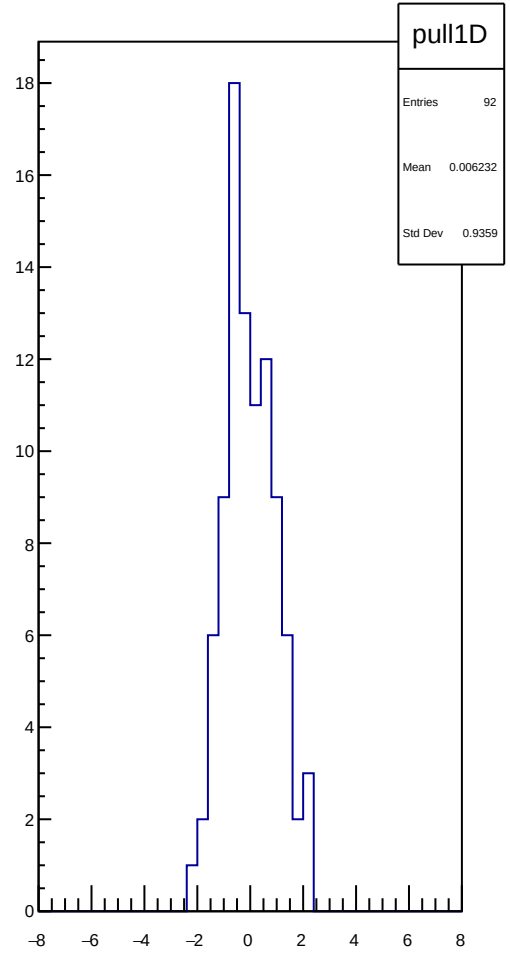

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.889e+04 / 91
p0 715.8 ± 0.5417
1100
1000
900
800
700
600

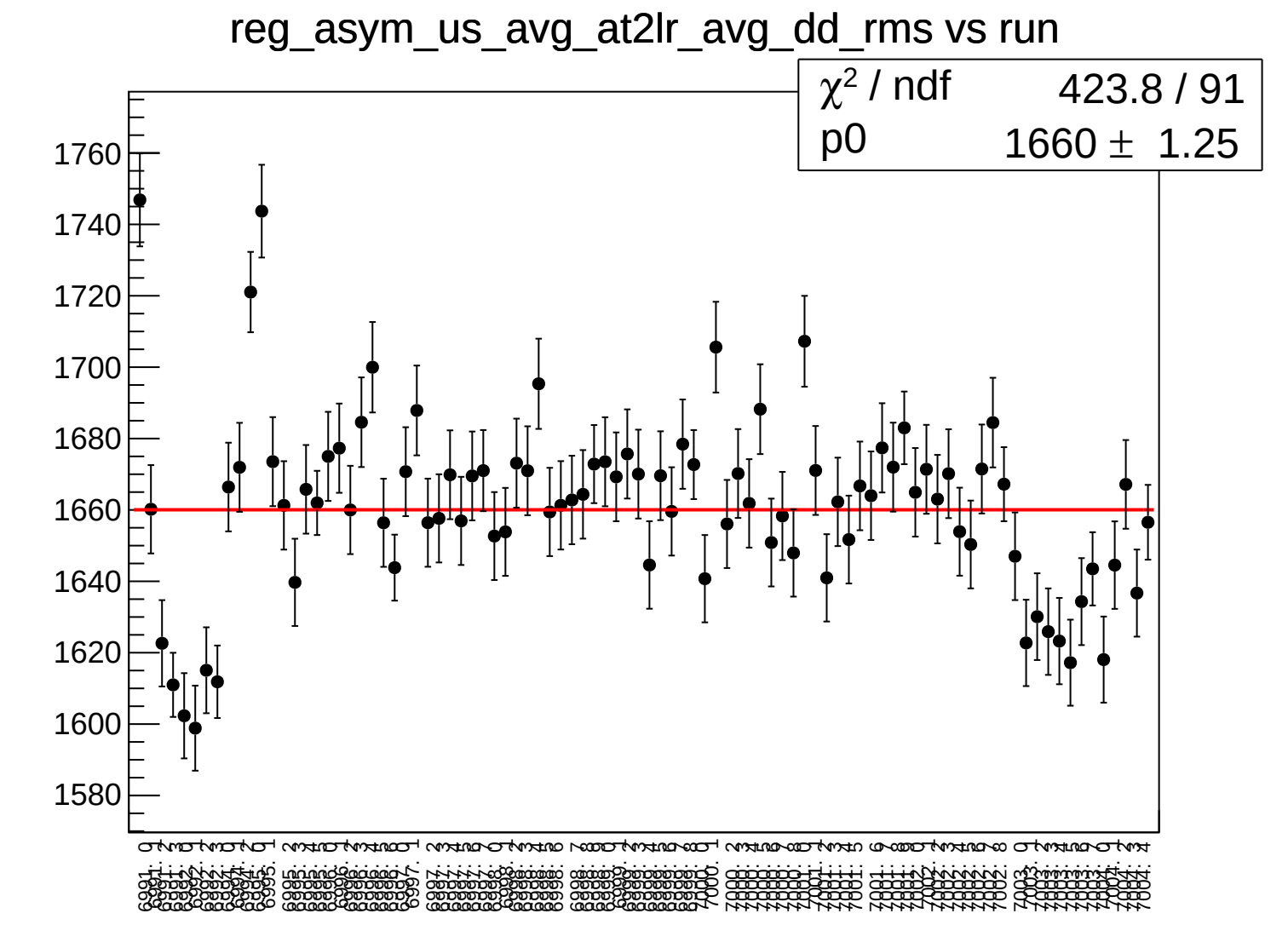

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.31 / 91
p0 3.331e−13 ± 1.657e−13
pull
Entries 92
Mean 228.3
Std Dev 0

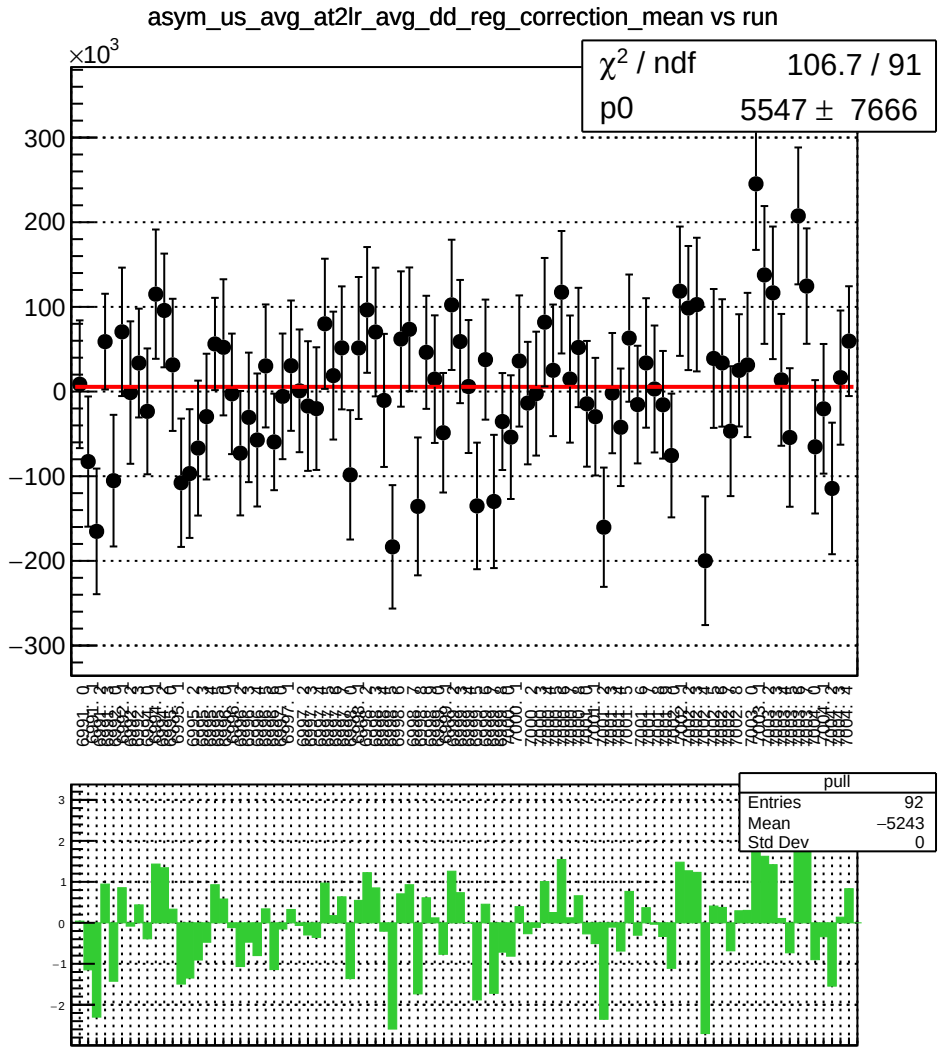

pull1D
Entries 92
Mean 0.007804
Std Dev 0.9629

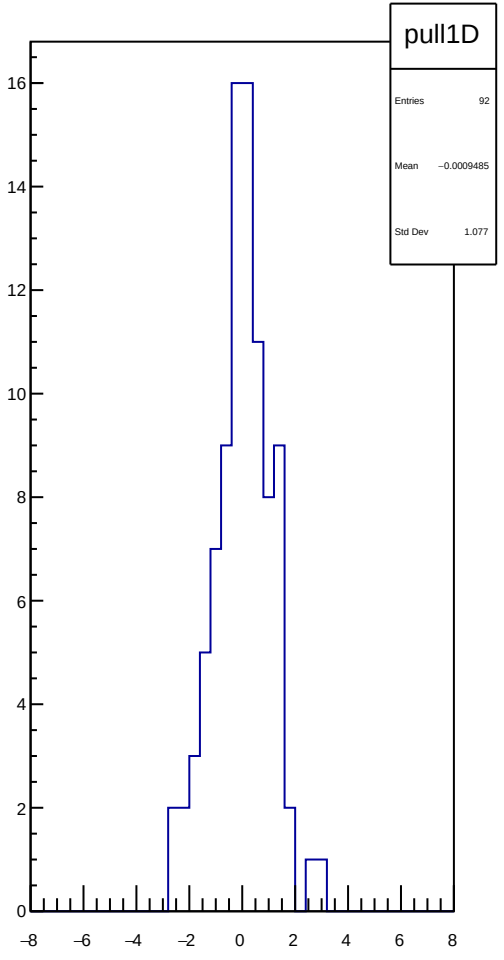

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.561e+05 / 91
p0 1.34e−10 ± 1.171e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

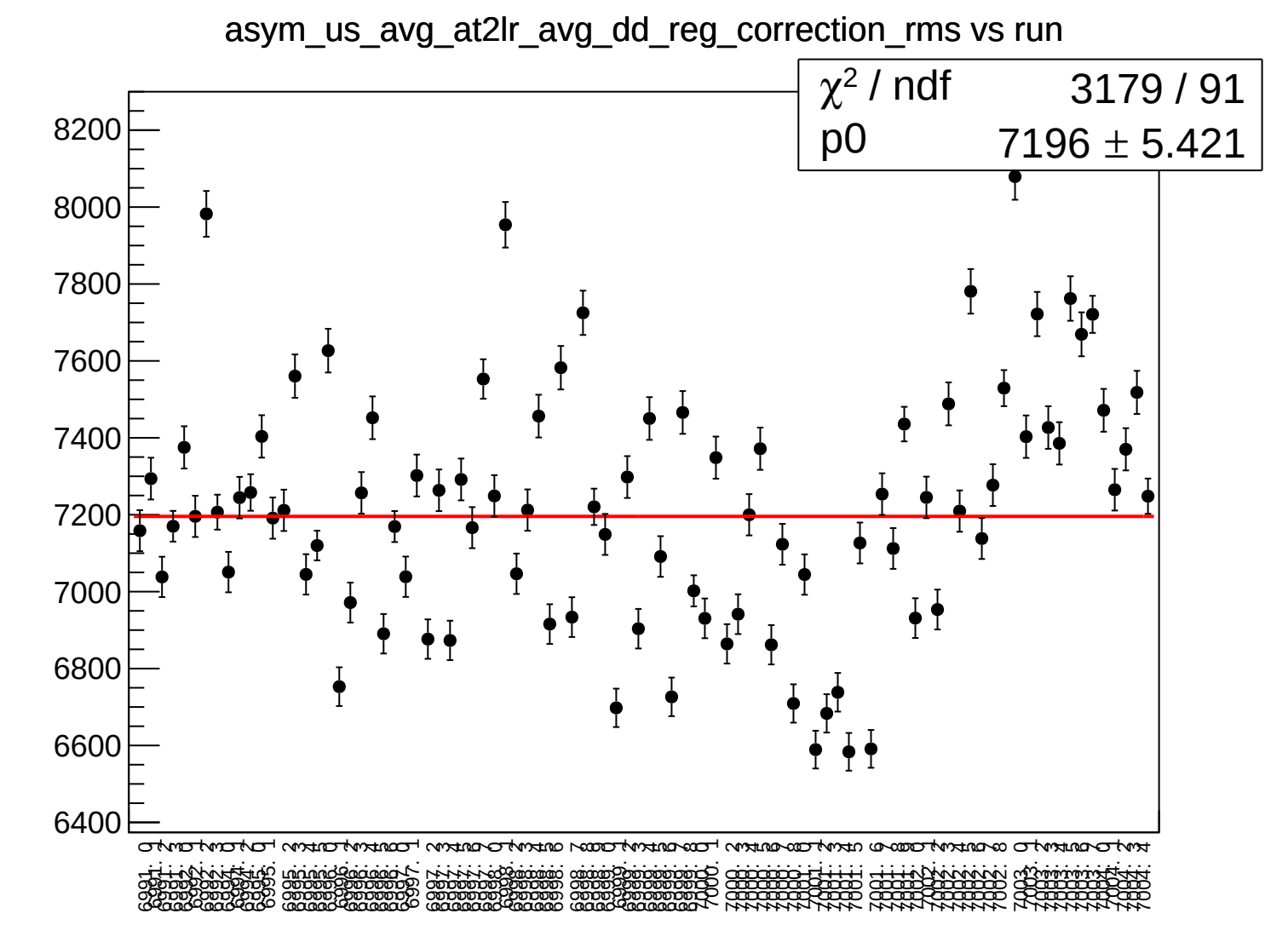

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ^2 / ndf 80.59 / 91
p0 1615 ± 1767
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 670.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

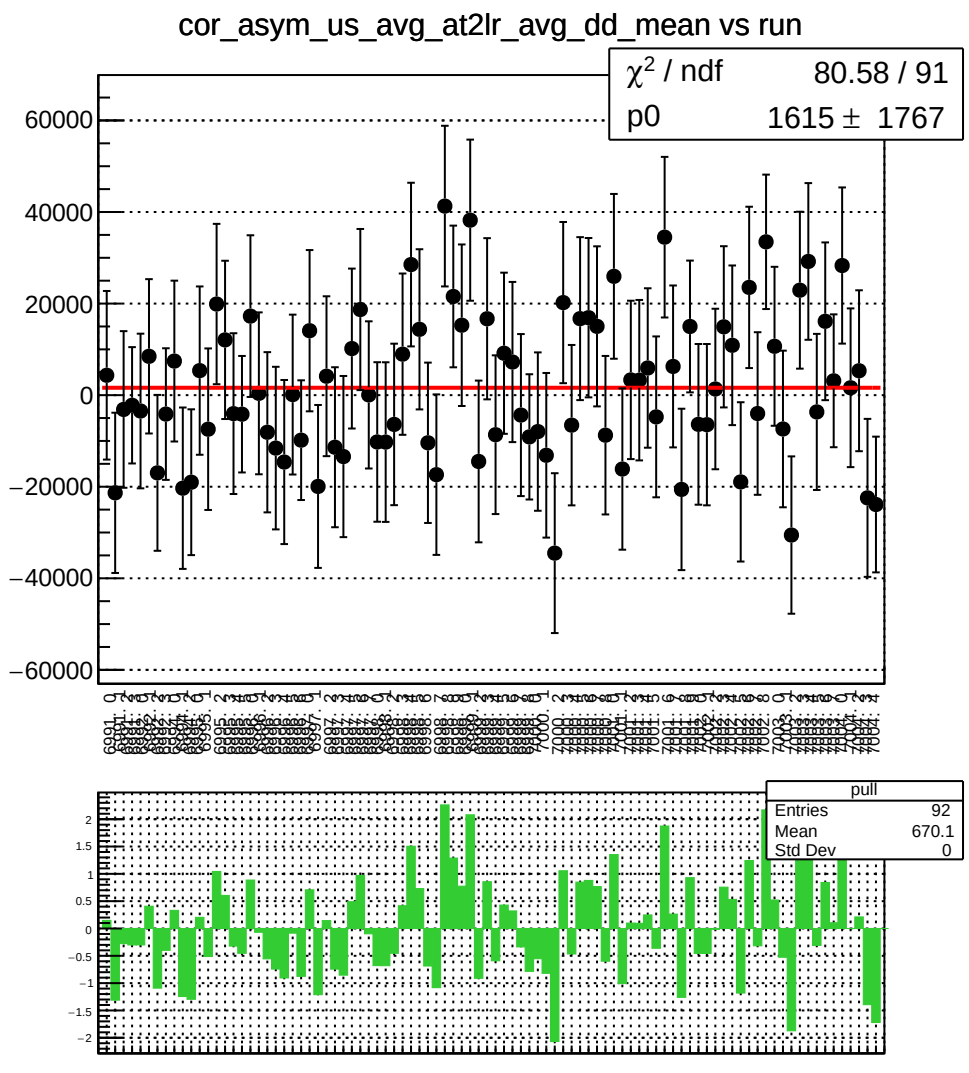

pull1D
Entries 92
Mean 0.006232
Std Dev 0.9359
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

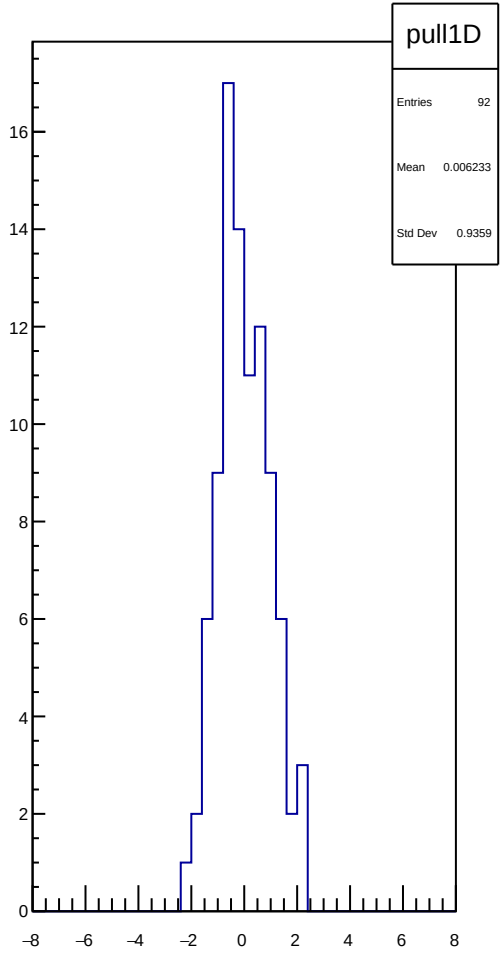

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 423.8 / 91
p0 1660 ± 1.25
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

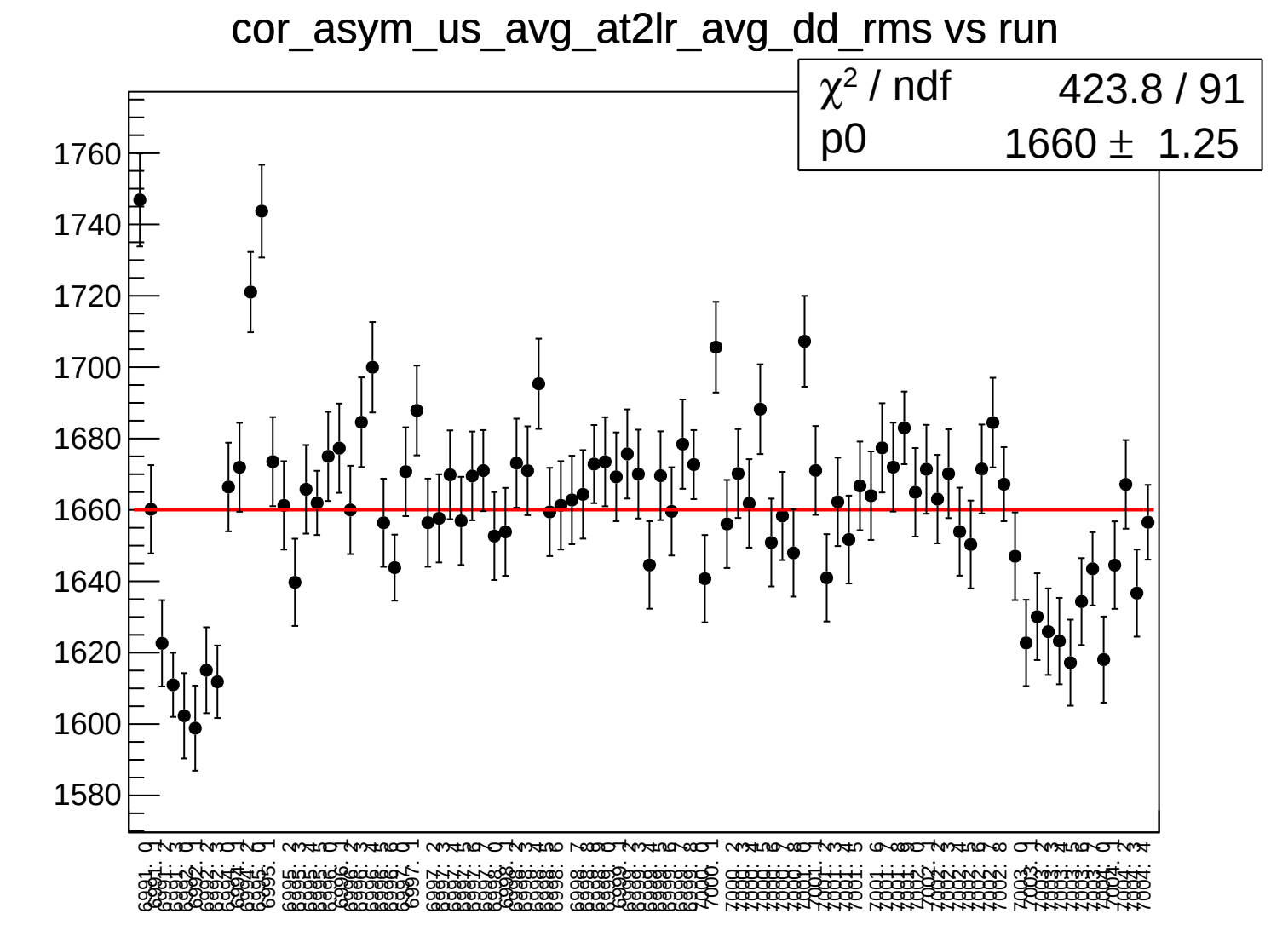

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 106.7 / 91
p0 5547 ± 7666
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −5243
Std Dev 0
3
2
1
0
−1
−2

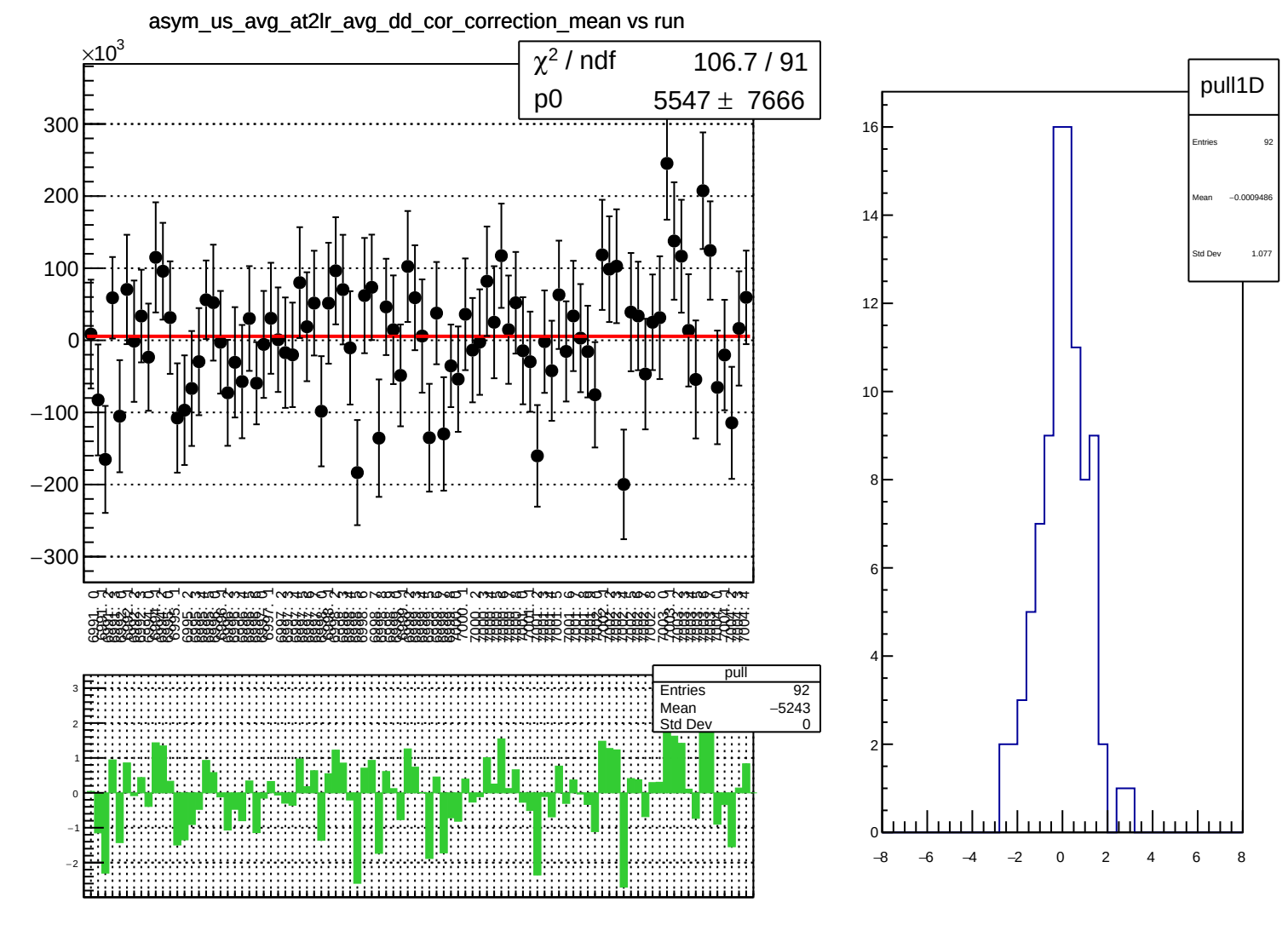

pull1D
Entries 92
Mean −0.0009485
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

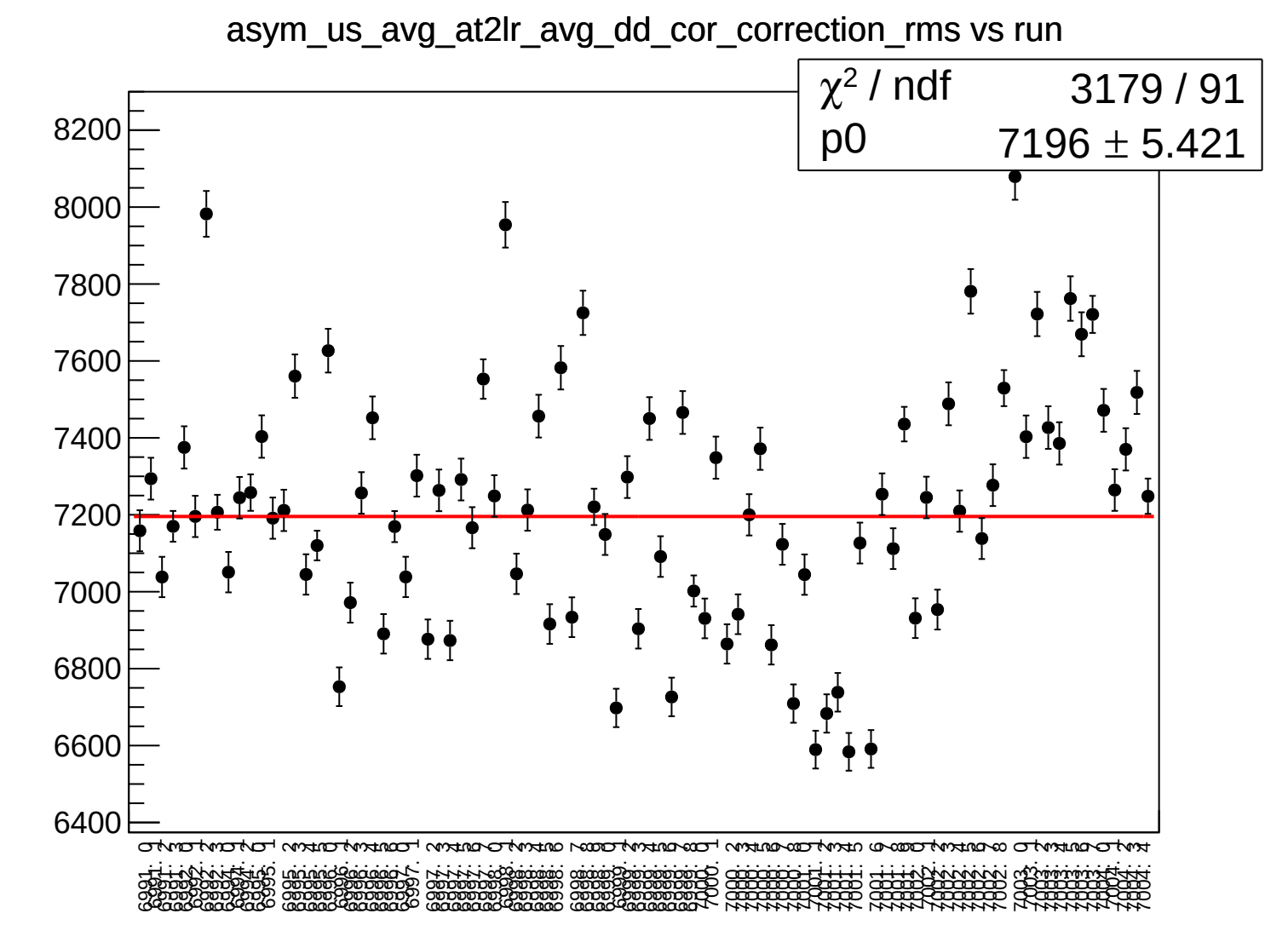

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3179 / 91
p0 7196 ± 5.421
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

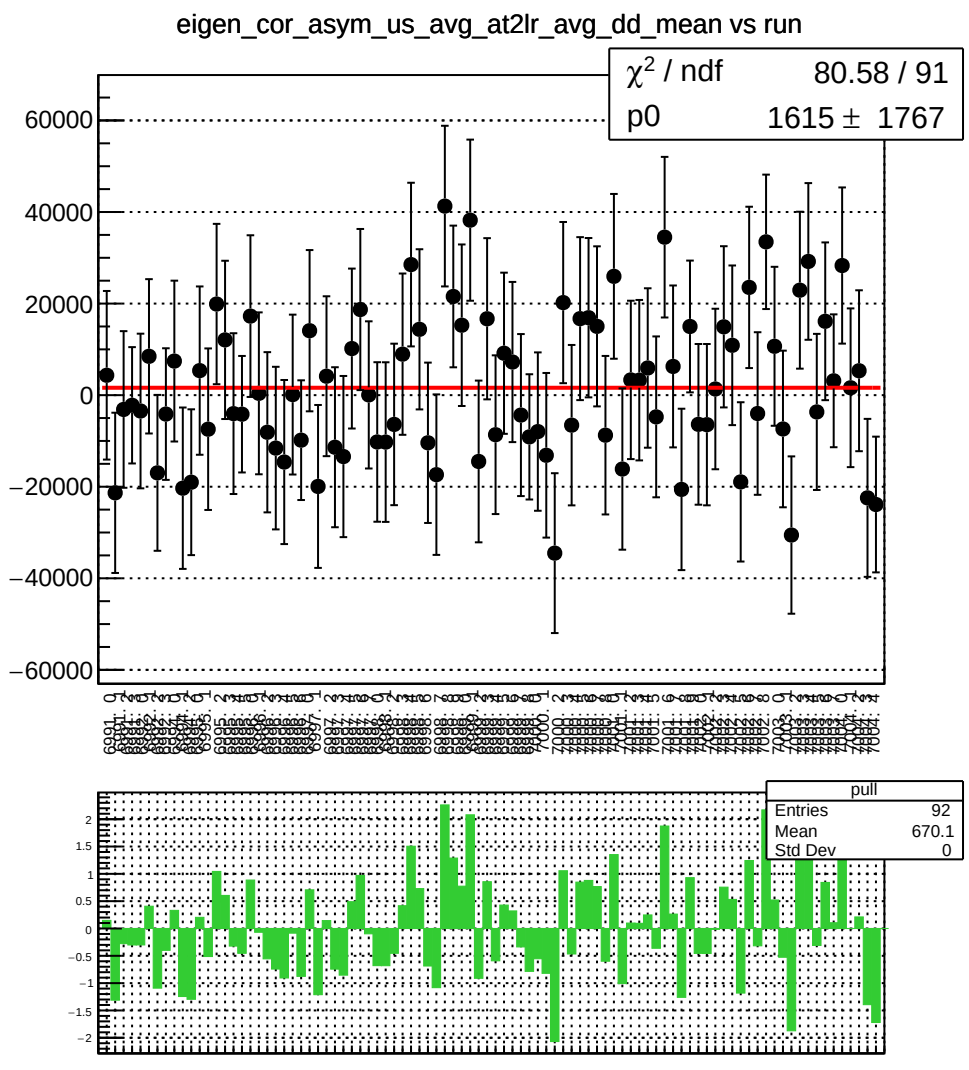

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 80.58 / 91
p0 1615 ± 1767
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 670.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

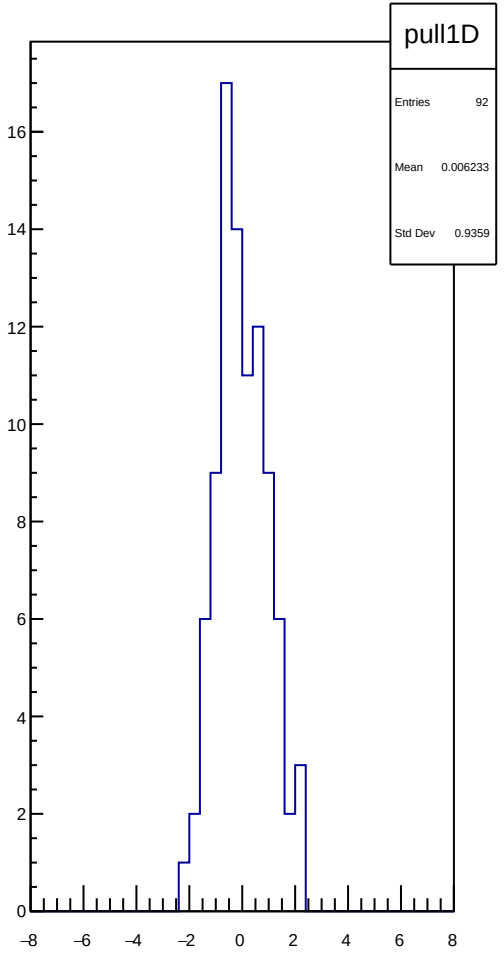

pull1D
Entries 92
Mean 0.006233
Std Dev 0.9359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

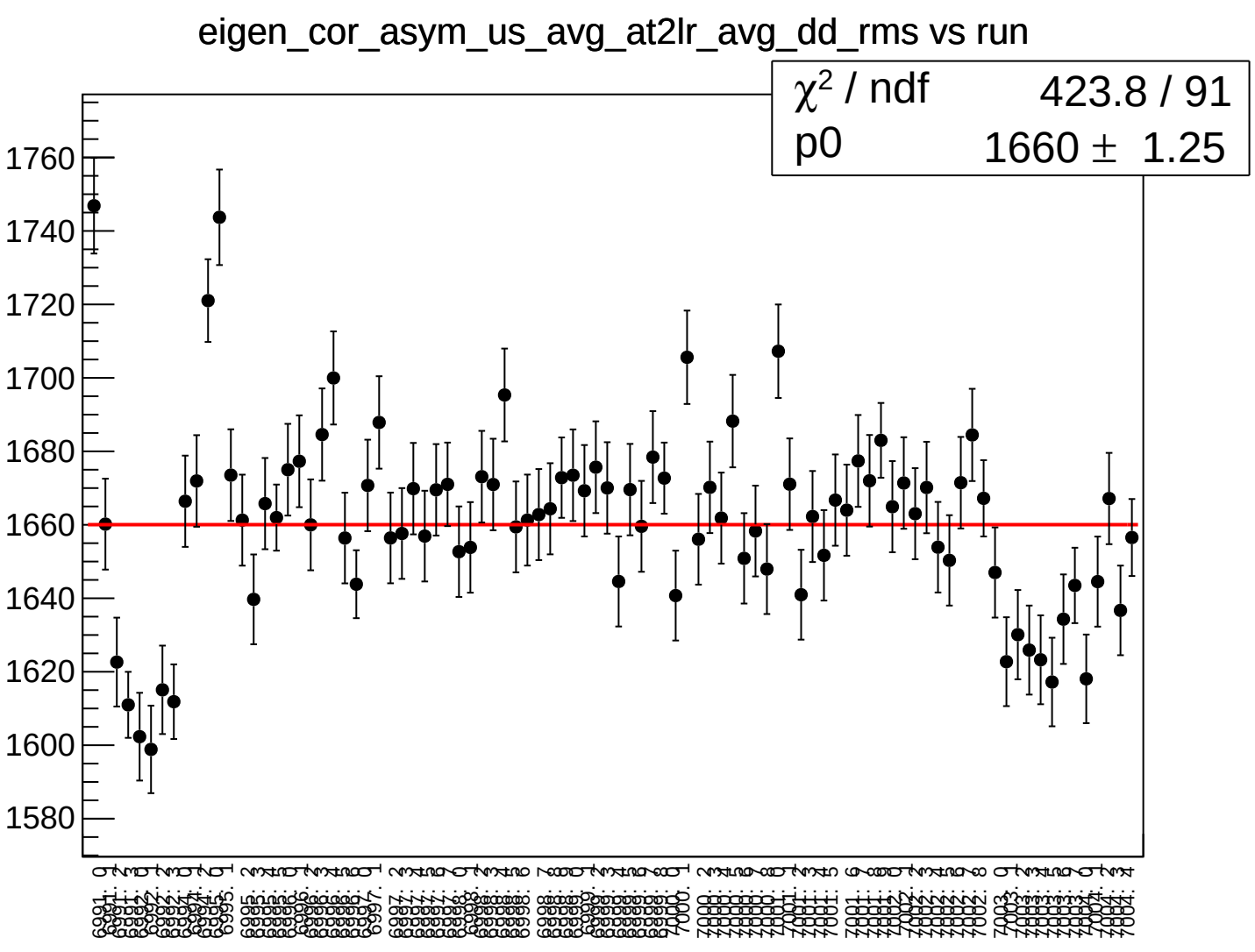

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 423.8 / 91
p0 1660 ± 1.25
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

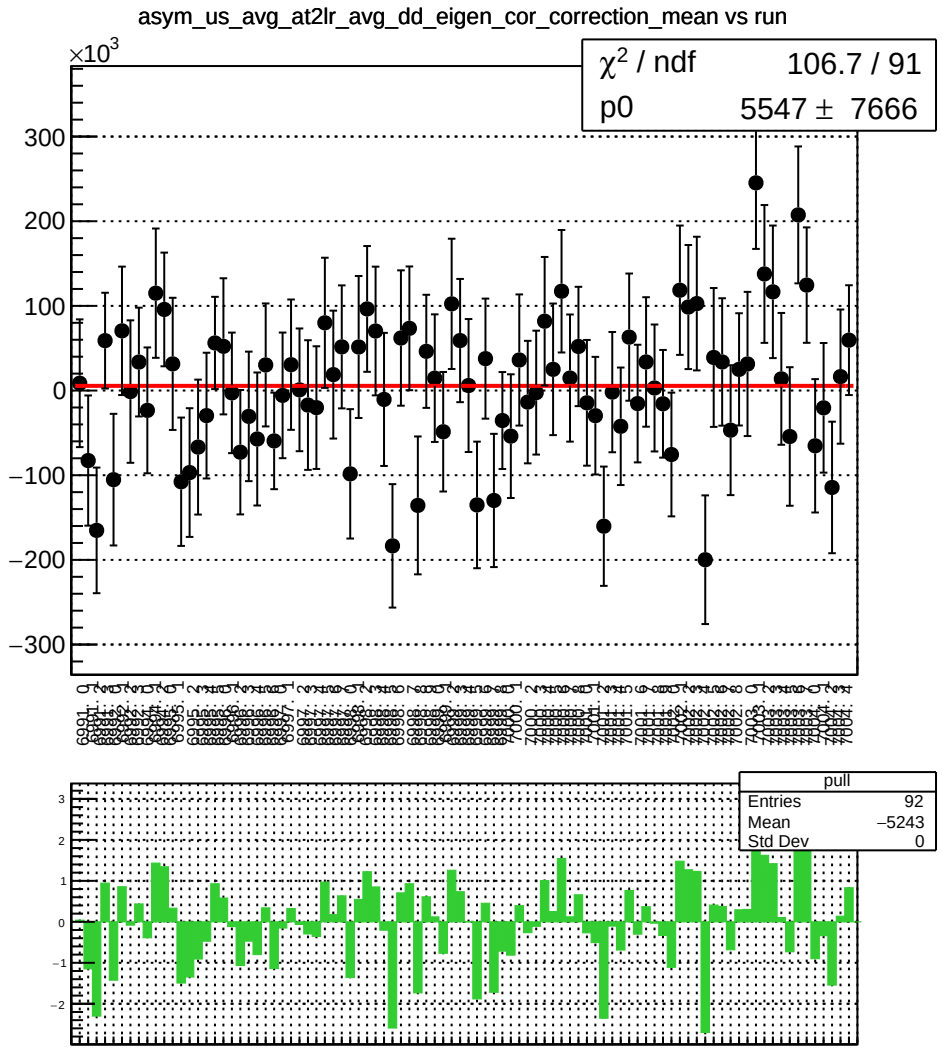

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.7 / 91
p0 5547 ± 7666
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −5243
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0009486
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

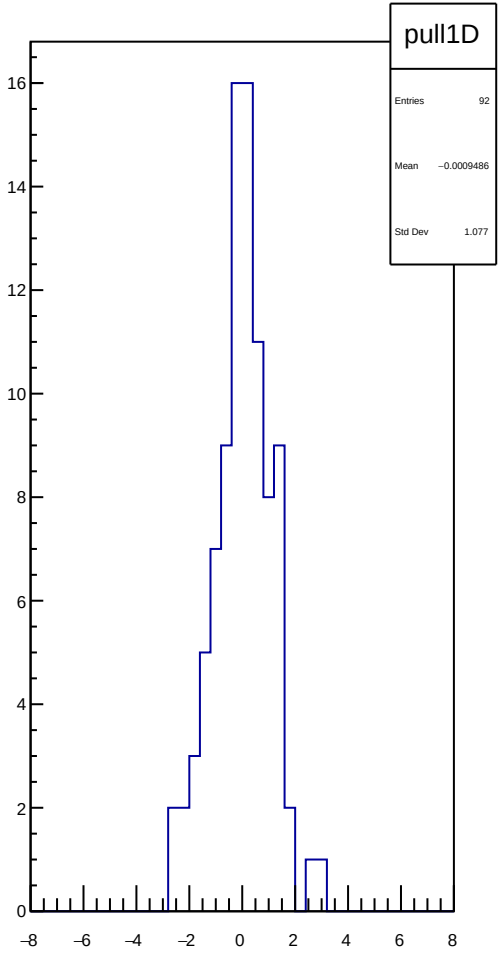

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3179 / 91
p0 7196 ± 5.421
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

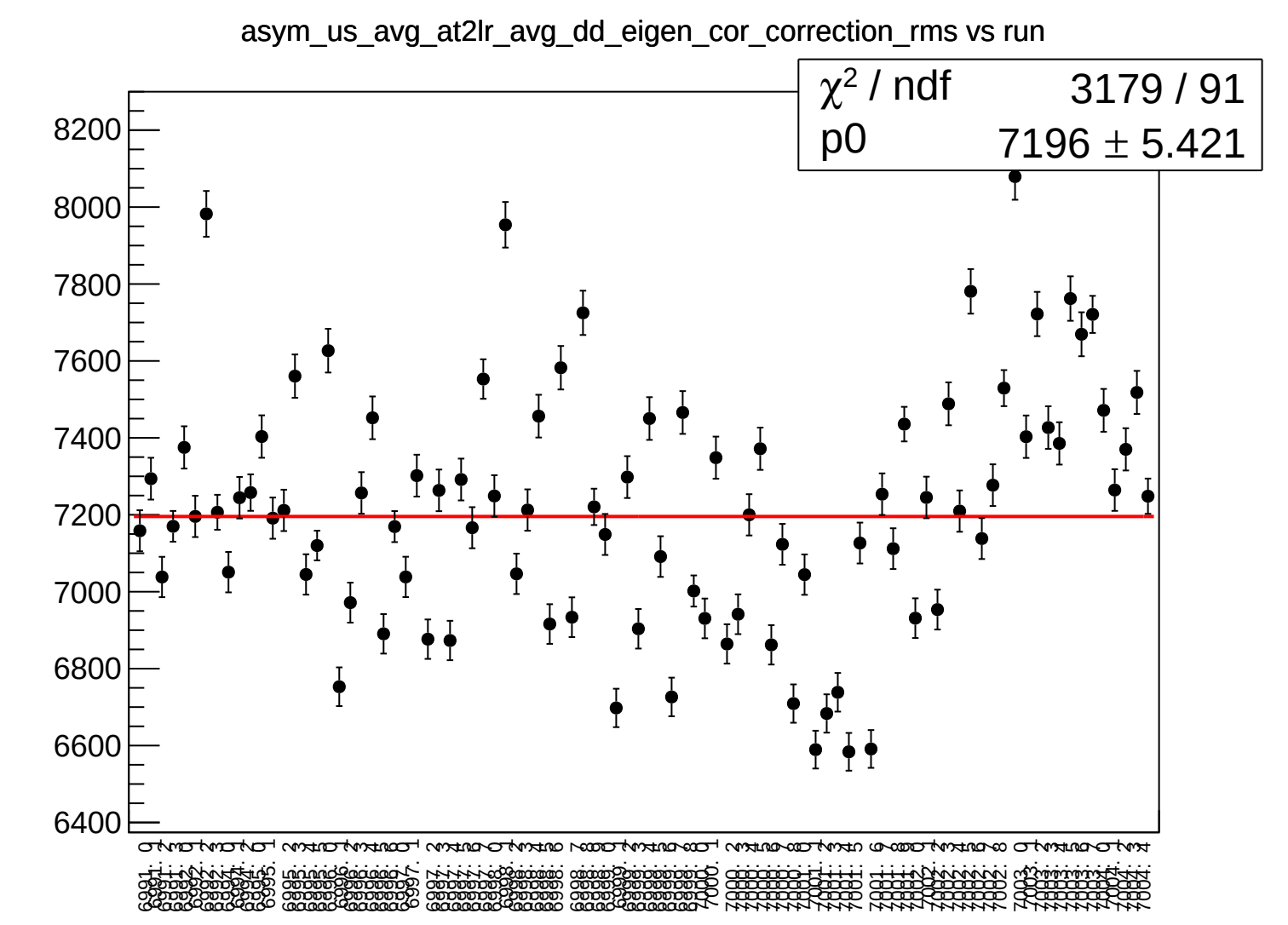

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 80.58 / 91
p0 1615 ± 1767
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 670.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

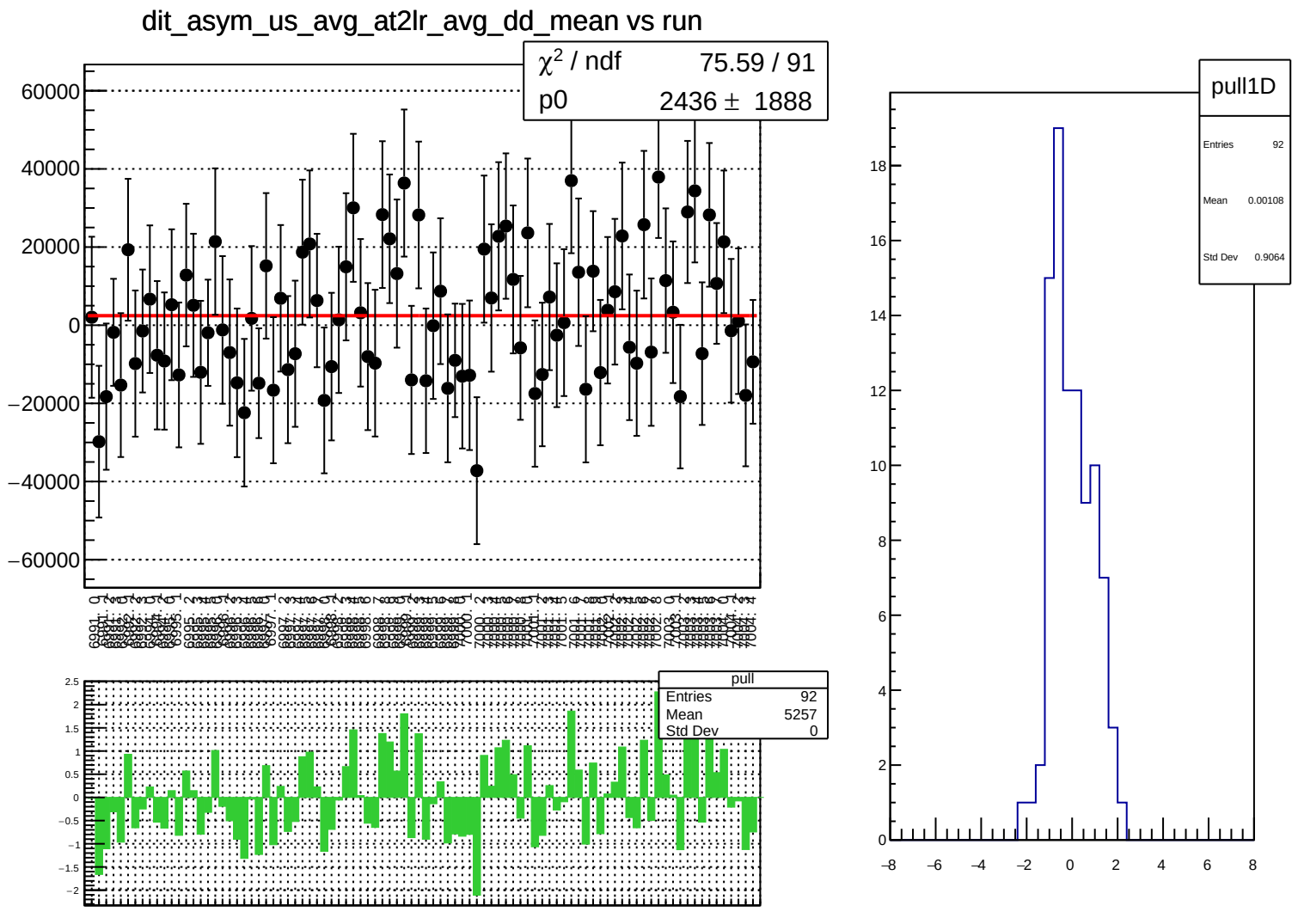

pull1D
Entries 92
Mean 0.006233
Std Dev 0.9359
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

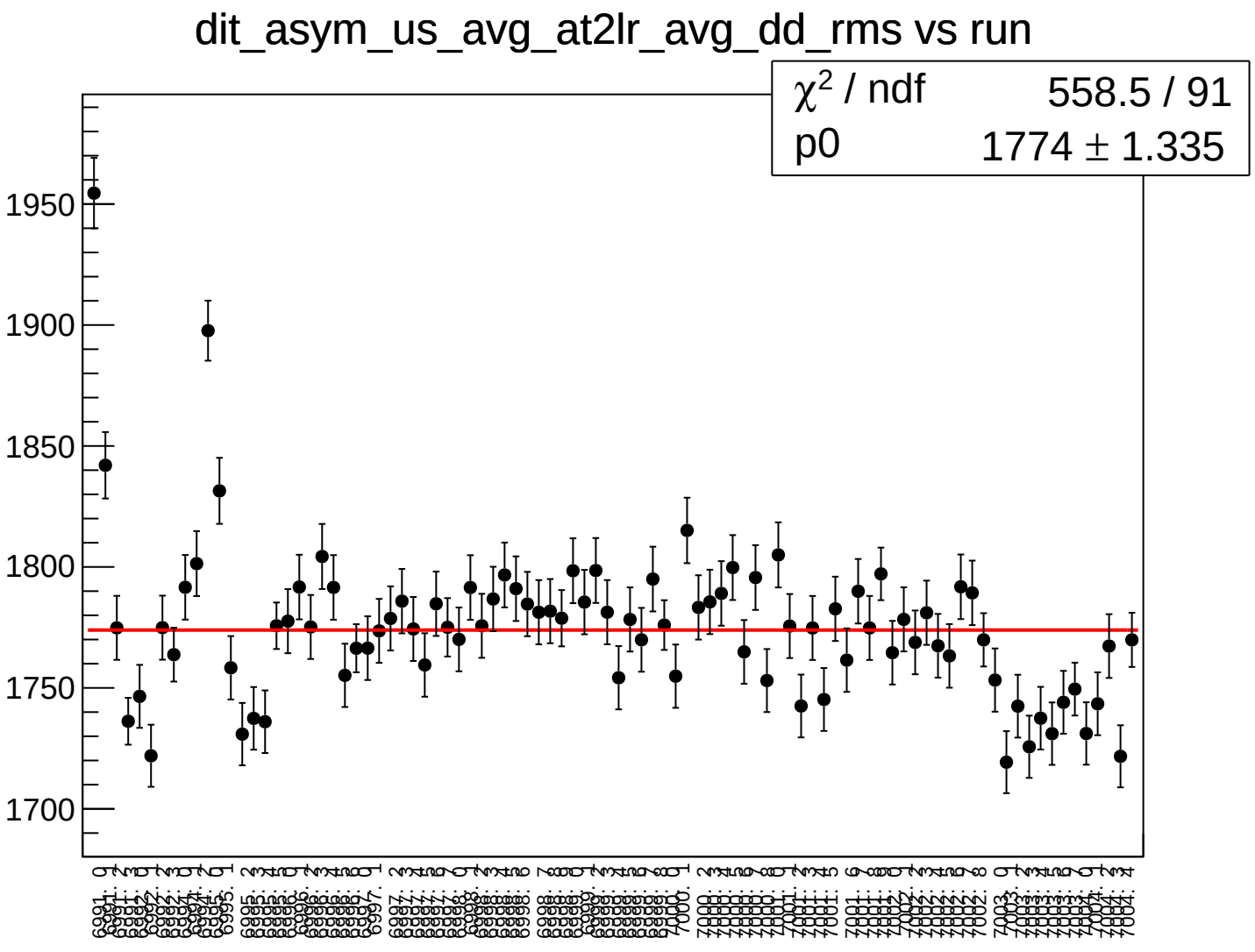

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 423.8 / 91
p0 1660 ± 1.25
1760
1740
1720
1700
1680
1660
1640
1620
1600
1580

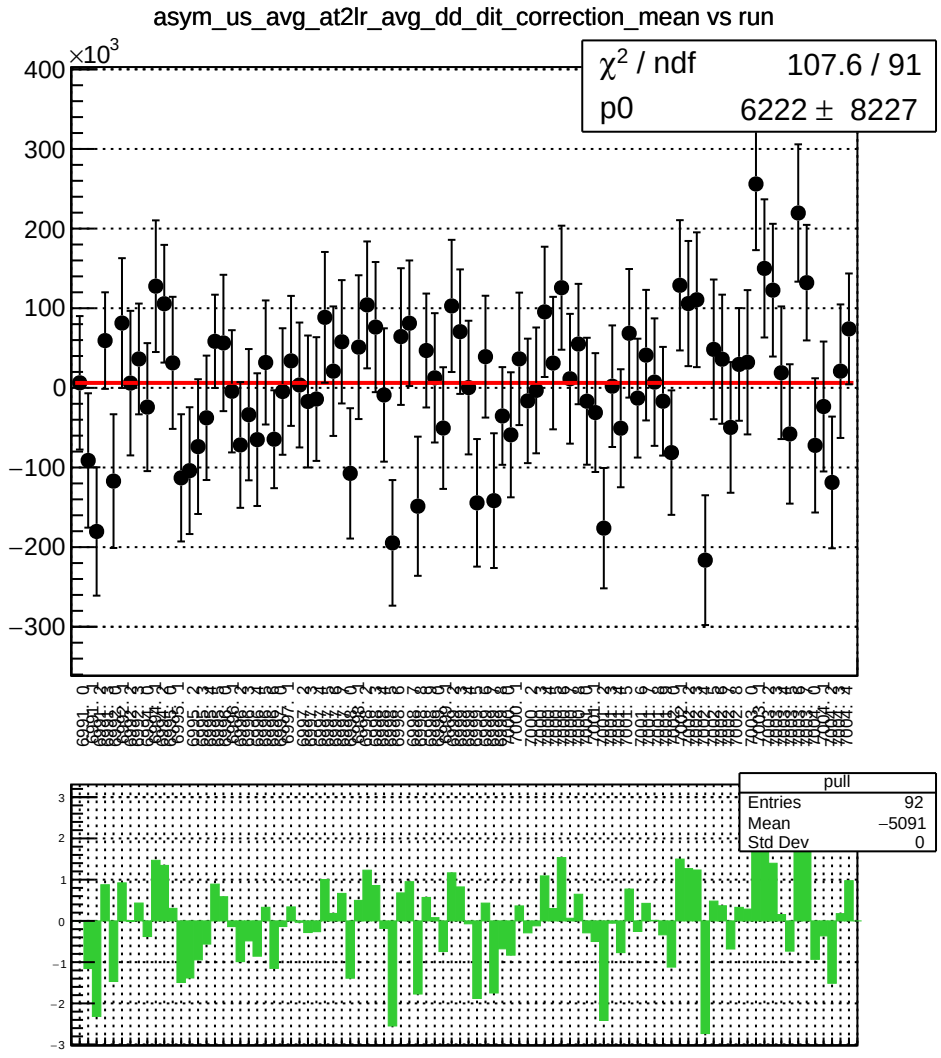

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.7 / 91
p0 5547 ± 7666
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −5243
Std Dev 0
3
2
1
0
−1
−2

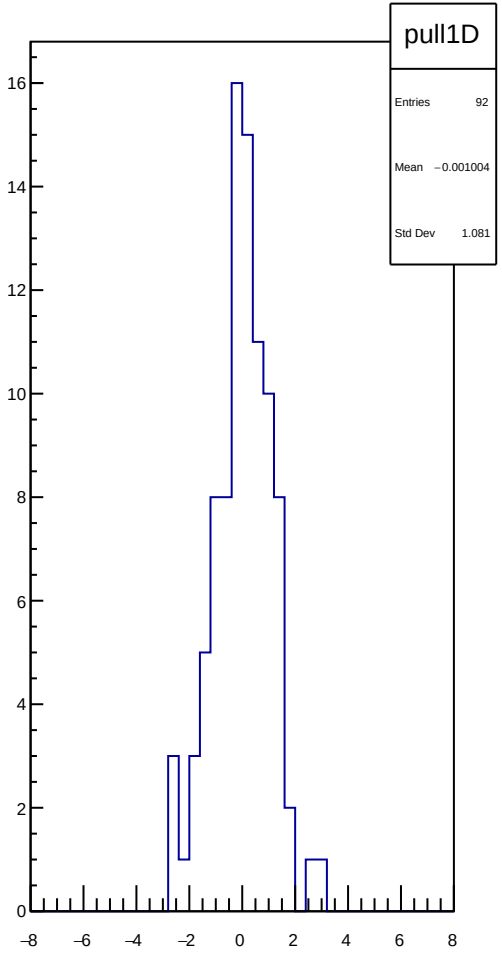

pull1D
Entries 92
Mean −0.0009486
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

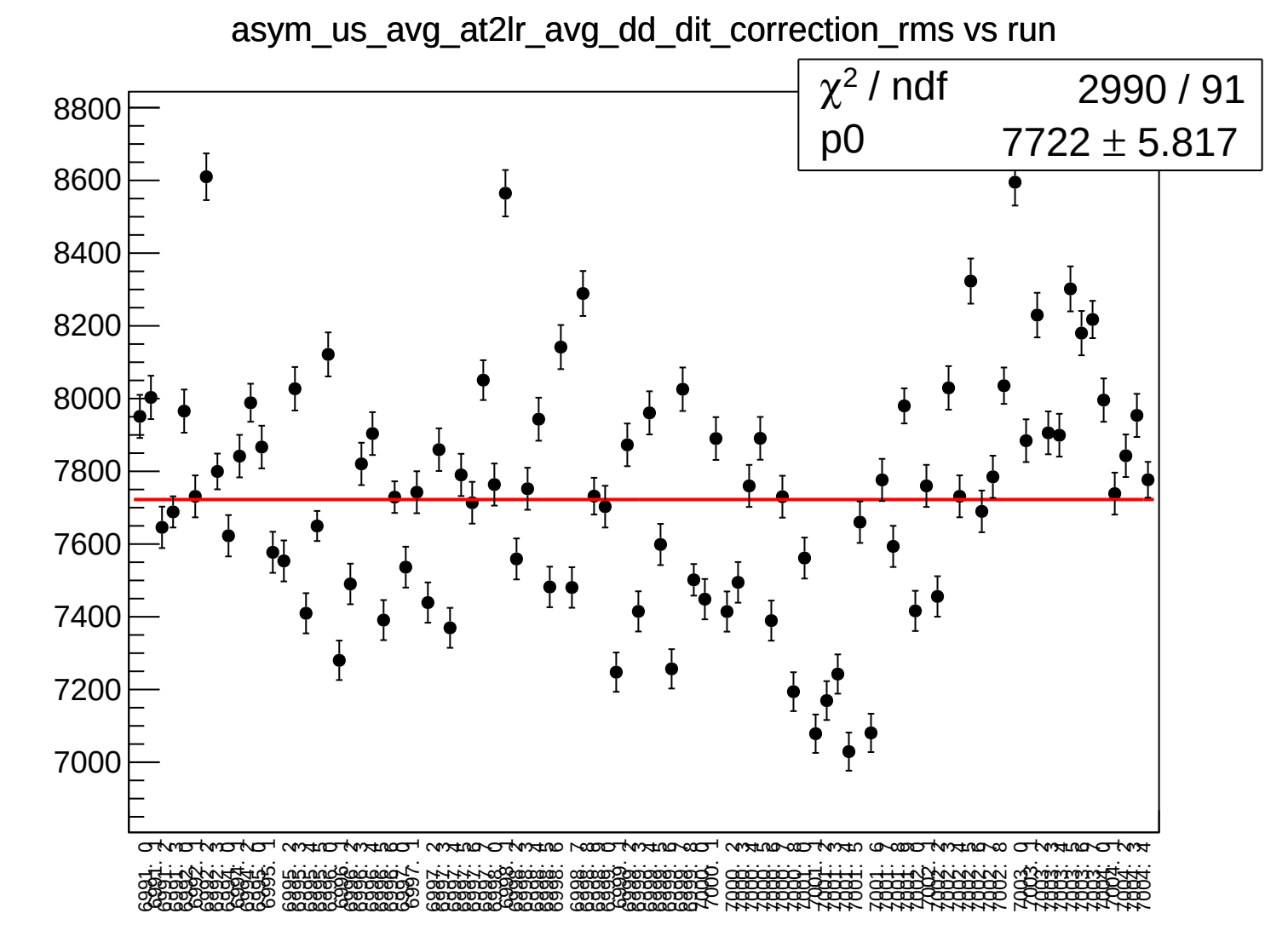

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3179 / 91
p0 7196 ± 5.421
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

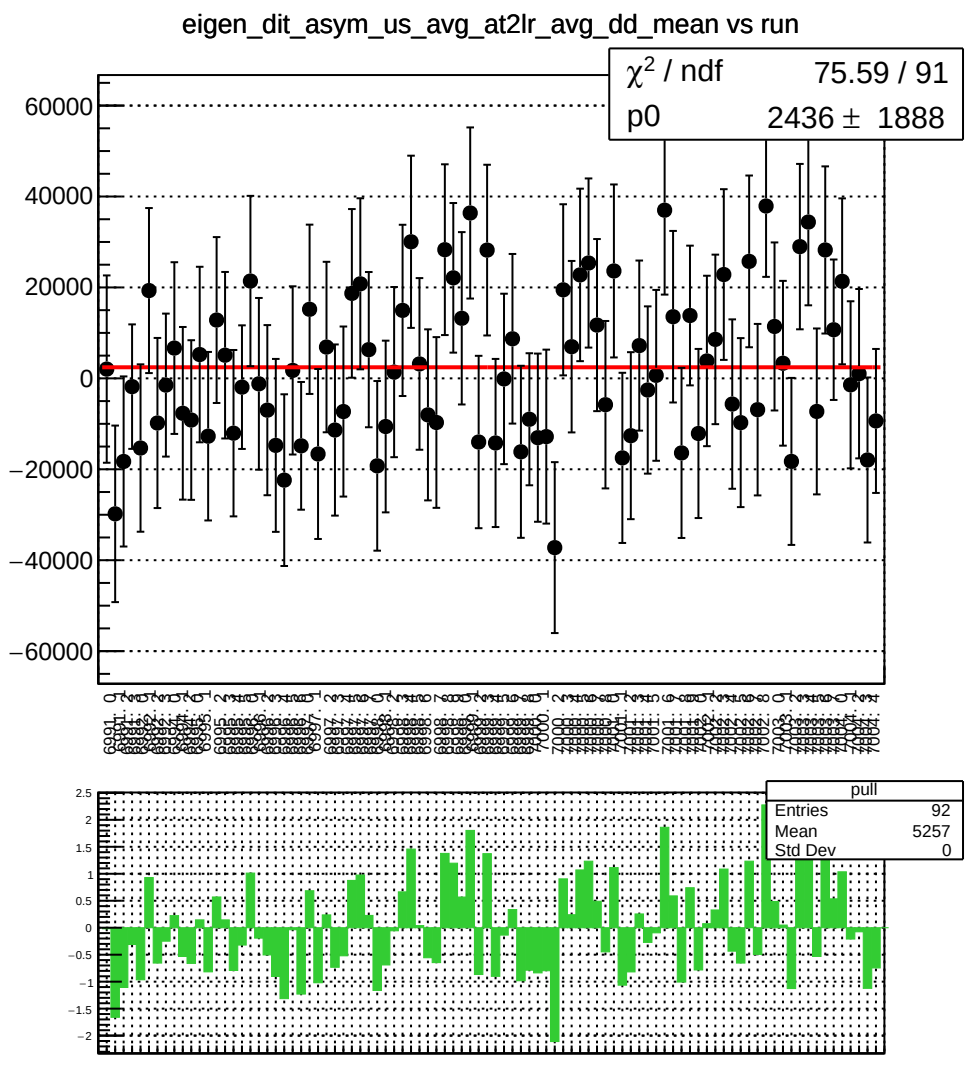

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 75.59 / 91
p0 2436 ± 1888
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 5257
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.00108
Std Dev 0.9064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

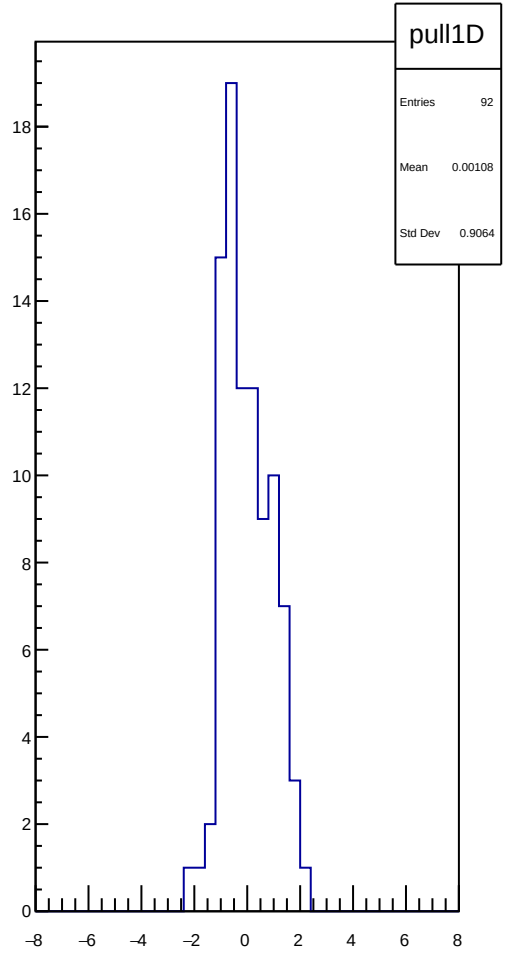

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 558.5 / 91
p0 1774 ± 1.335
1950
1900
1850
1800
1750
1700

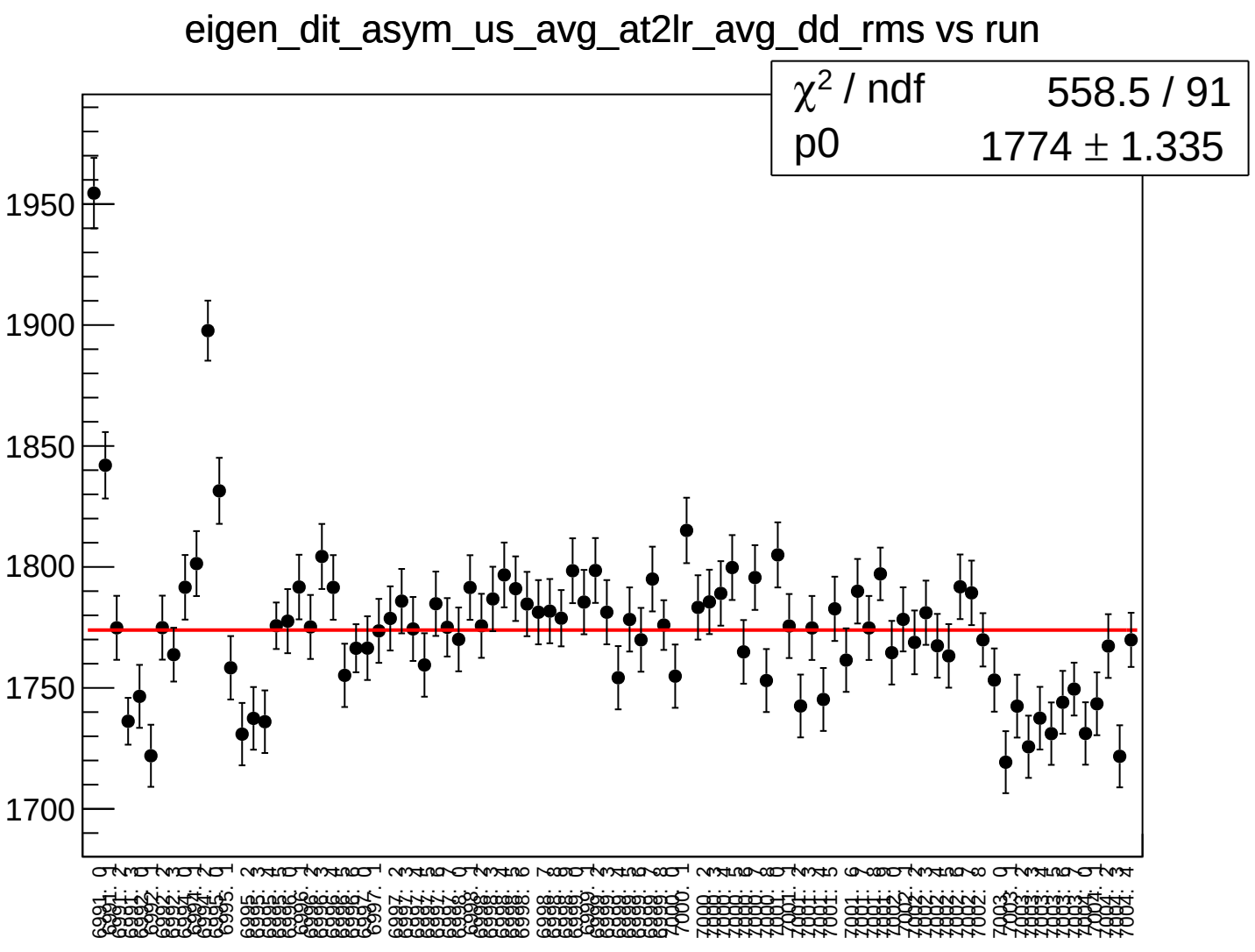

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
χ² / ndf 107.6 / 91
p0 6222 ± 8227
×10³
pull
Entries 92
Mean −5091
Std Dev 0

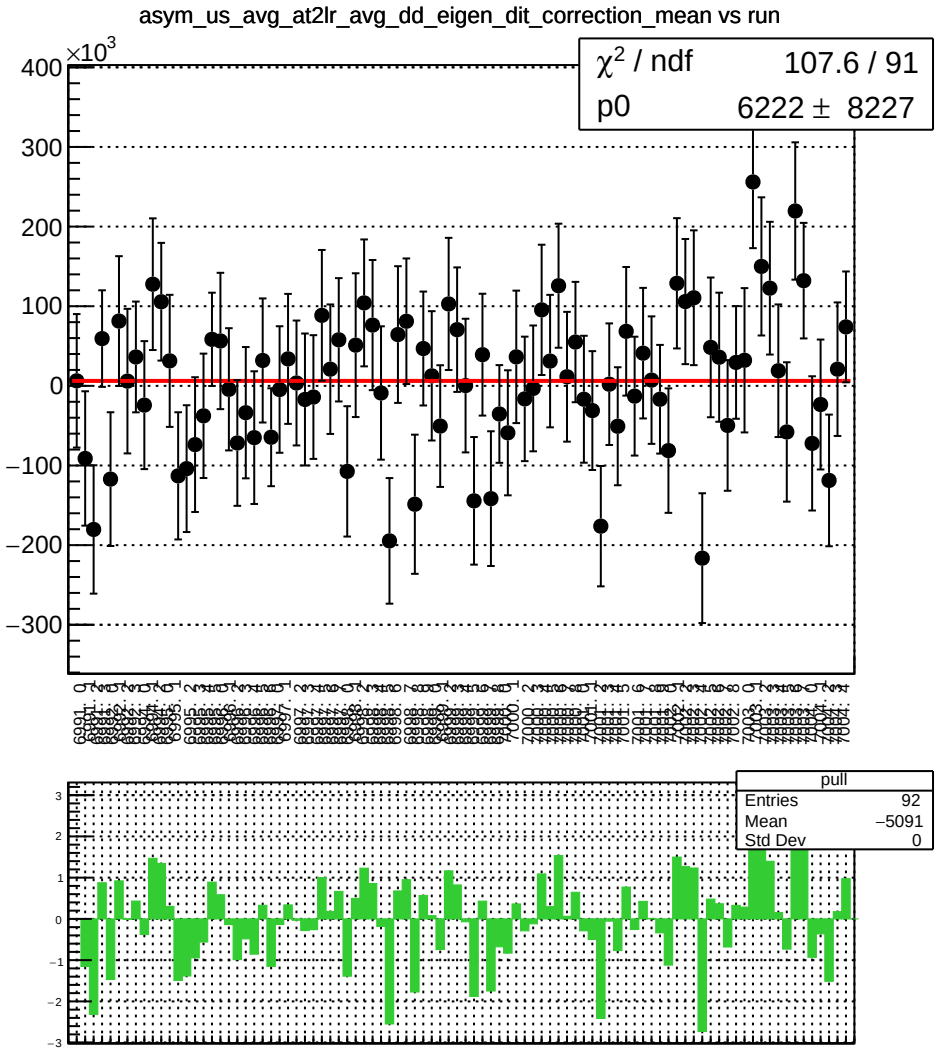

pull1D
Entries 92
Mean −0.001004
Std Dev 1.081

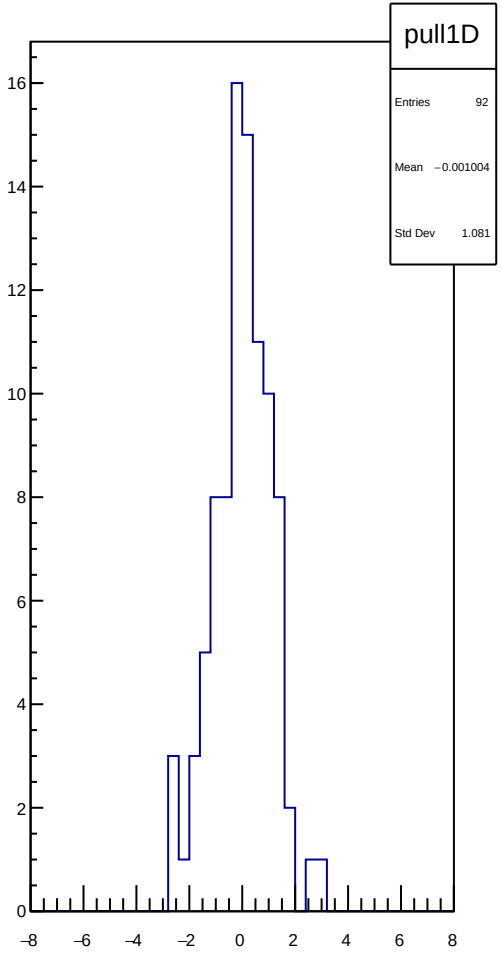

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2990 / 91
p0 7722 ± 5.817
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

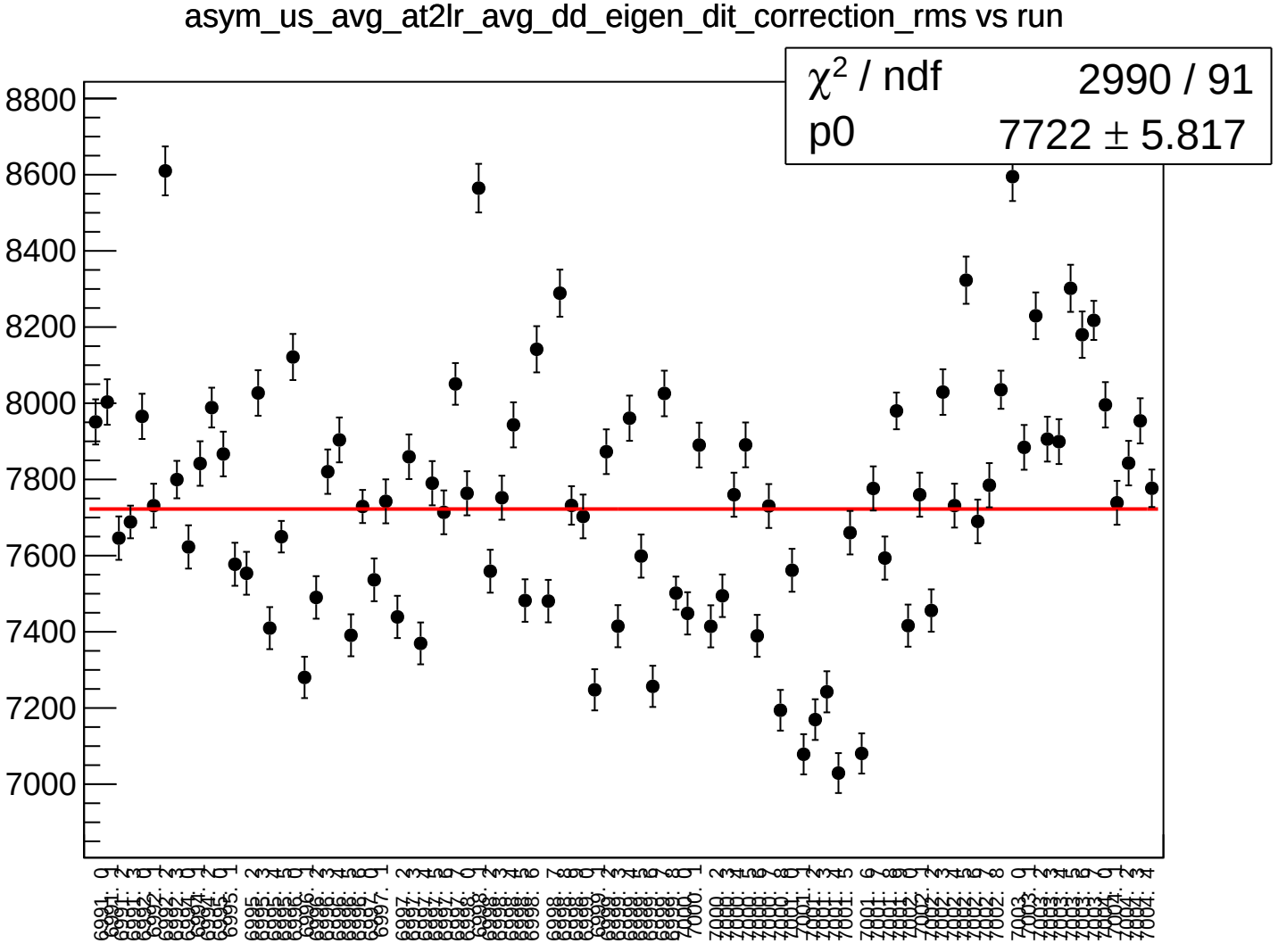

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 75.59 / 91
p0 2436 ± 1888
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 5257
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

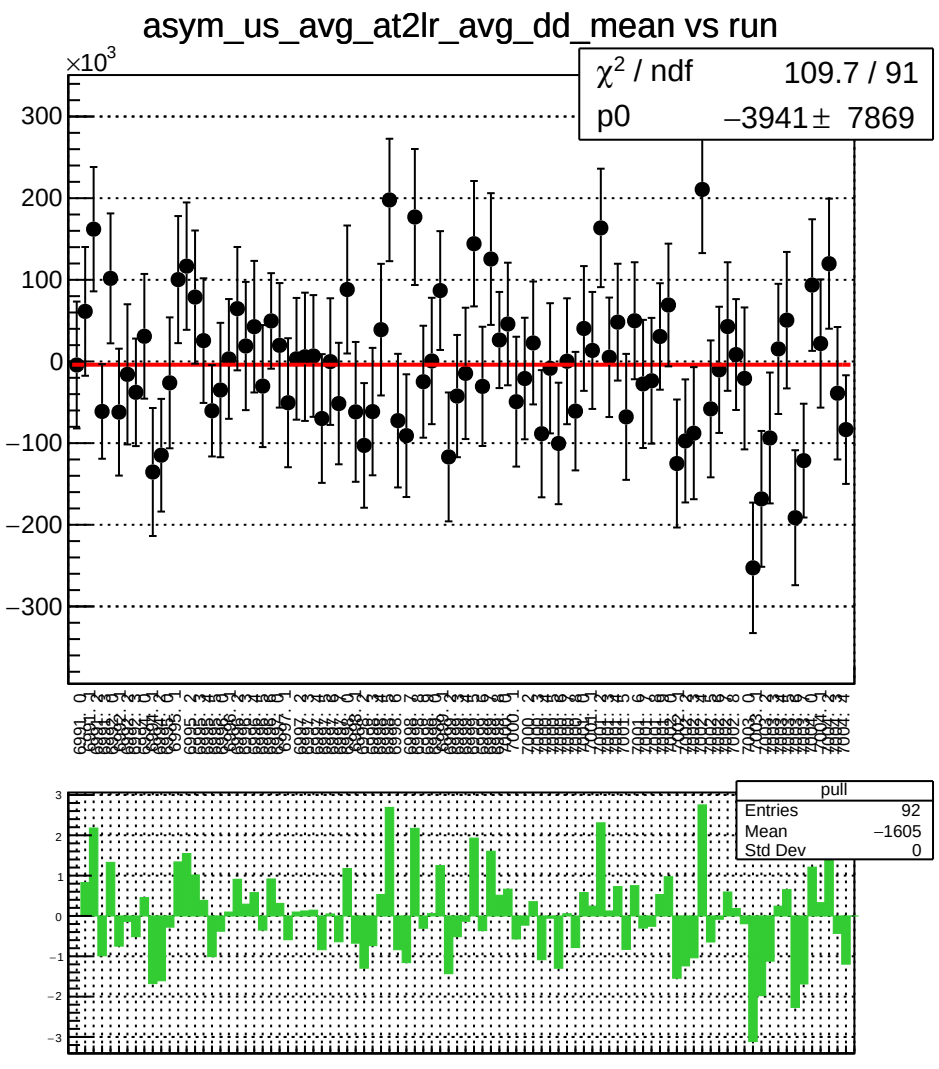

pull1D
Entries 92
Mean 0.00108
Std Dev 0.9064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

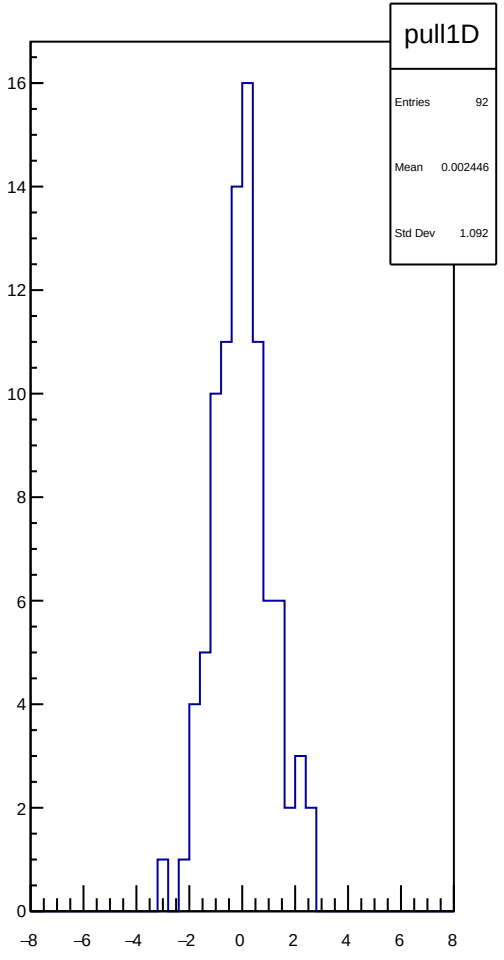

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 558.5 / 91
p0 1774 ± 1.335
1950
1900
1850
1800
1750
1700

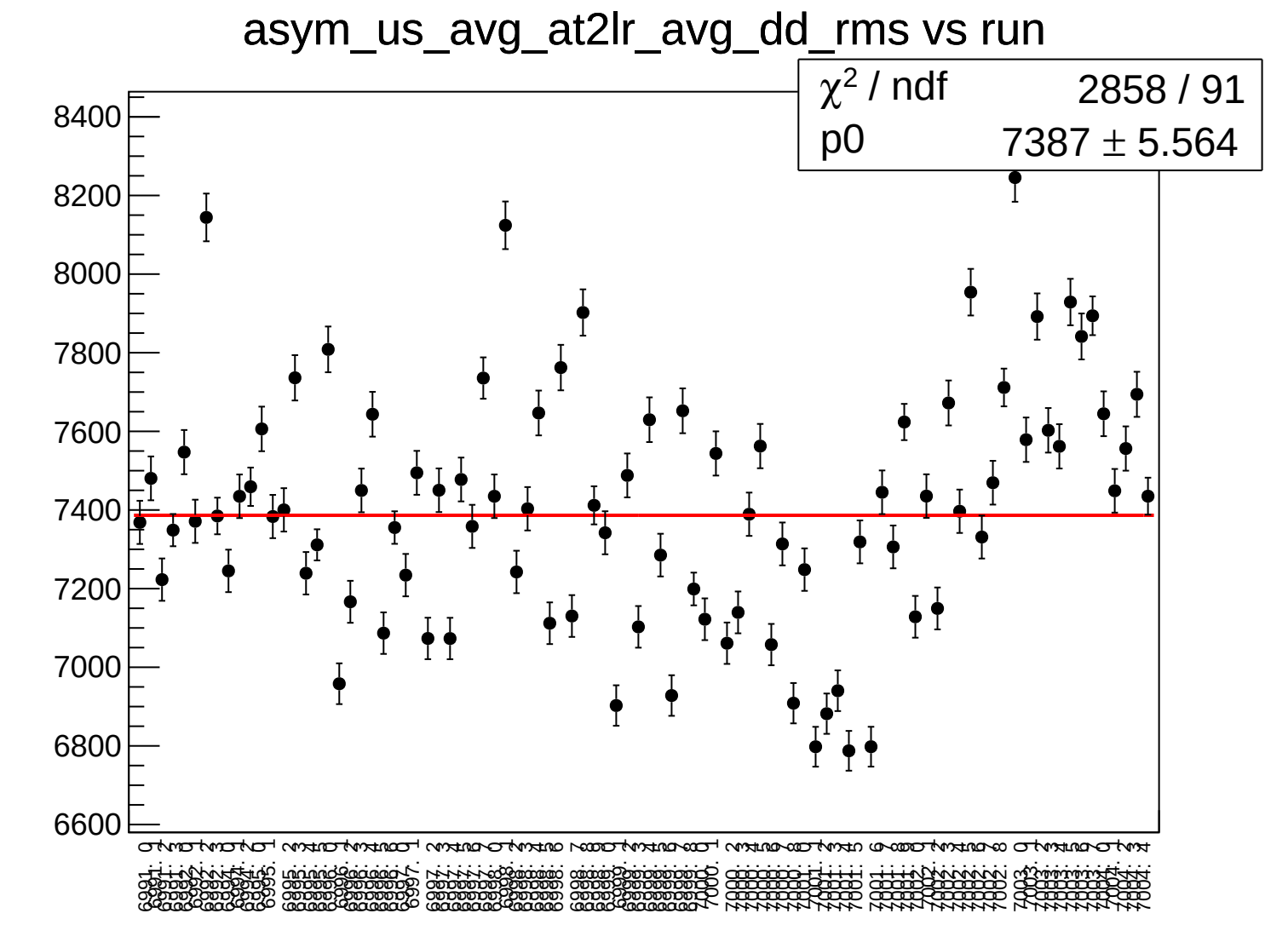

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.6 / 91
p0 6222 ± 8227
pull
Entries 92
Mean −5091
Std Dev 0

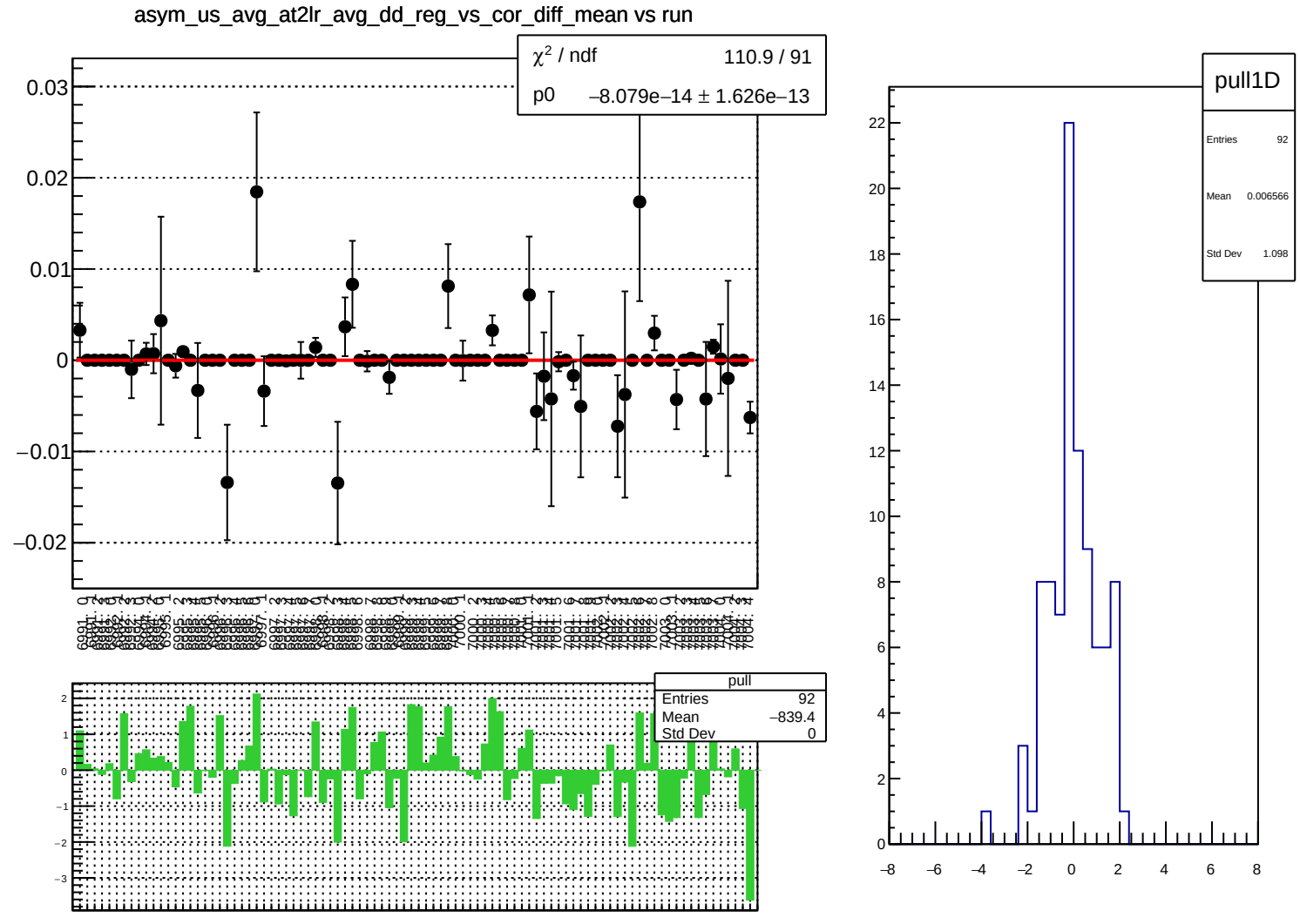

pull1D
Entries 92
Mean −0.001004
Std Dev 1.081

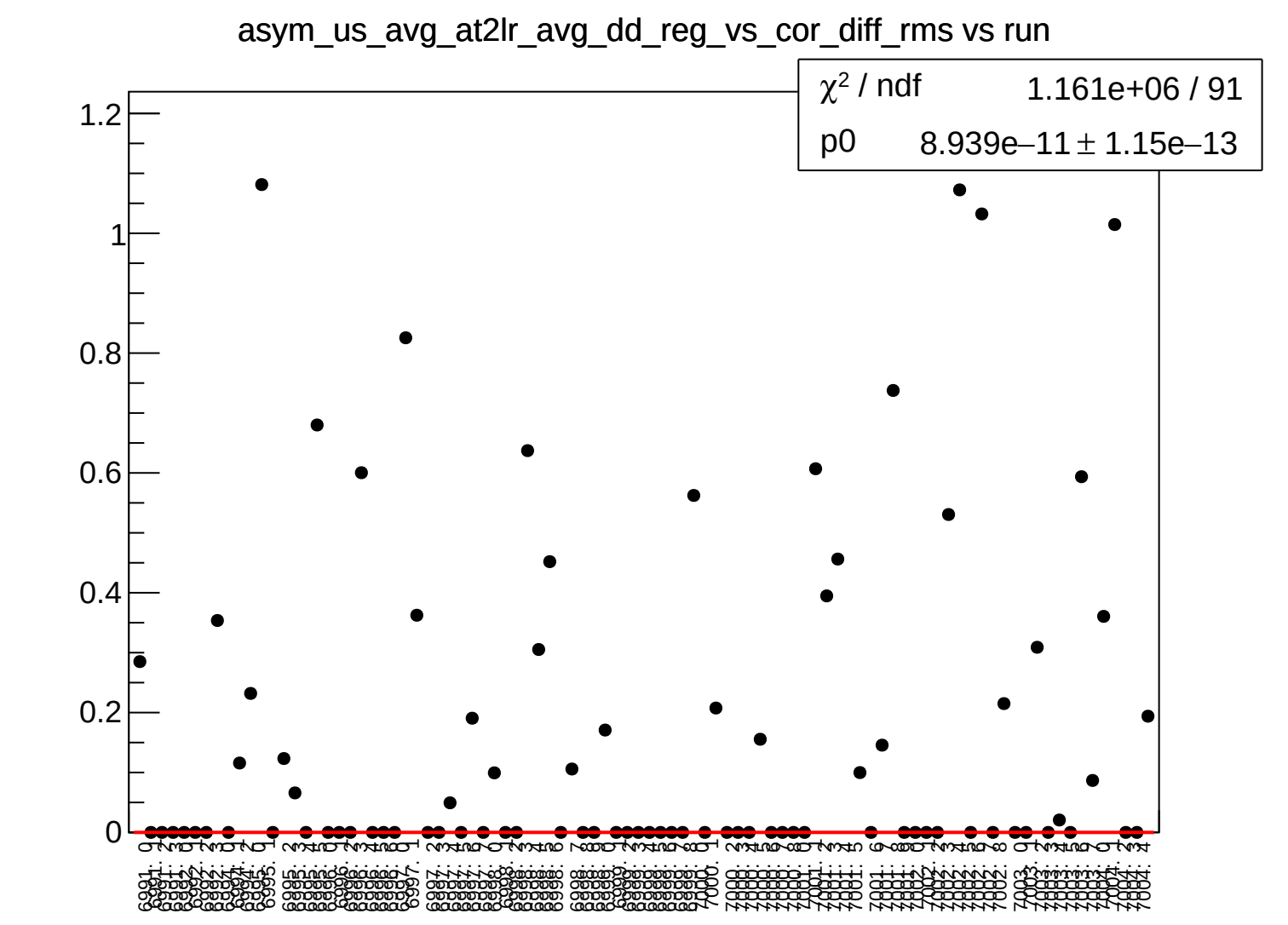

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2990 / 91
p0 7722 ± 5.817
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

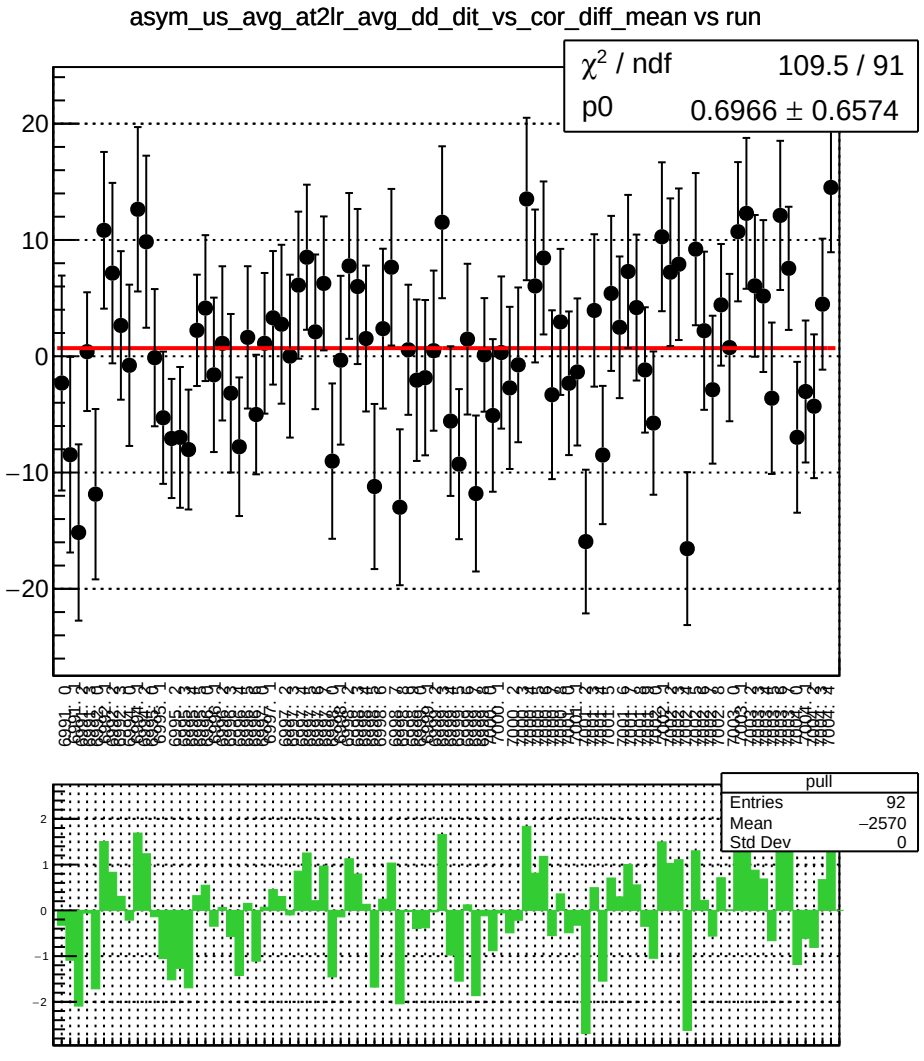

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 109.7 / 91
p0 −3941 ± 7869
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −1605
Std Dev 0
3
2
1
0
−1
−2
−3

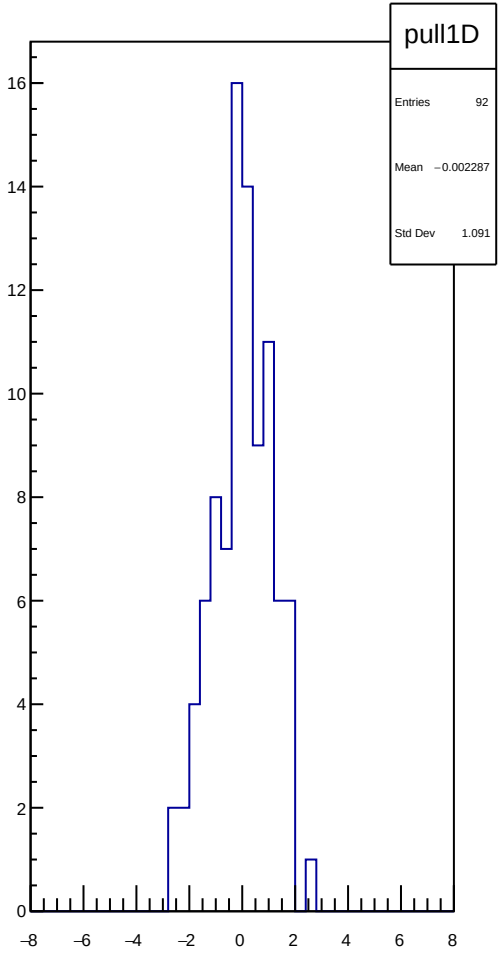

pull1D
Entries 92
Mean 0.002446
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

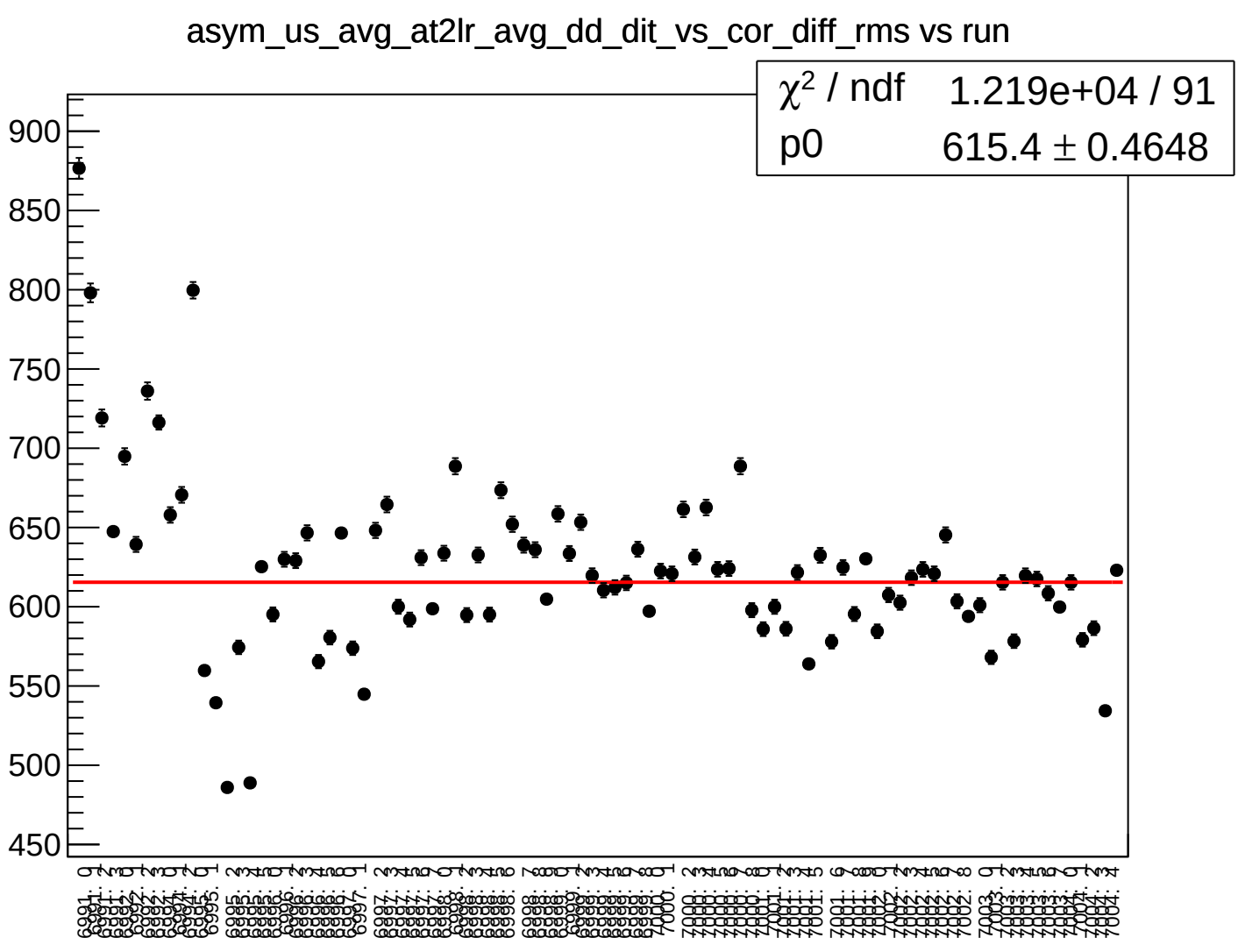

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2858 / 91
p0 7387 ± 5.564
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

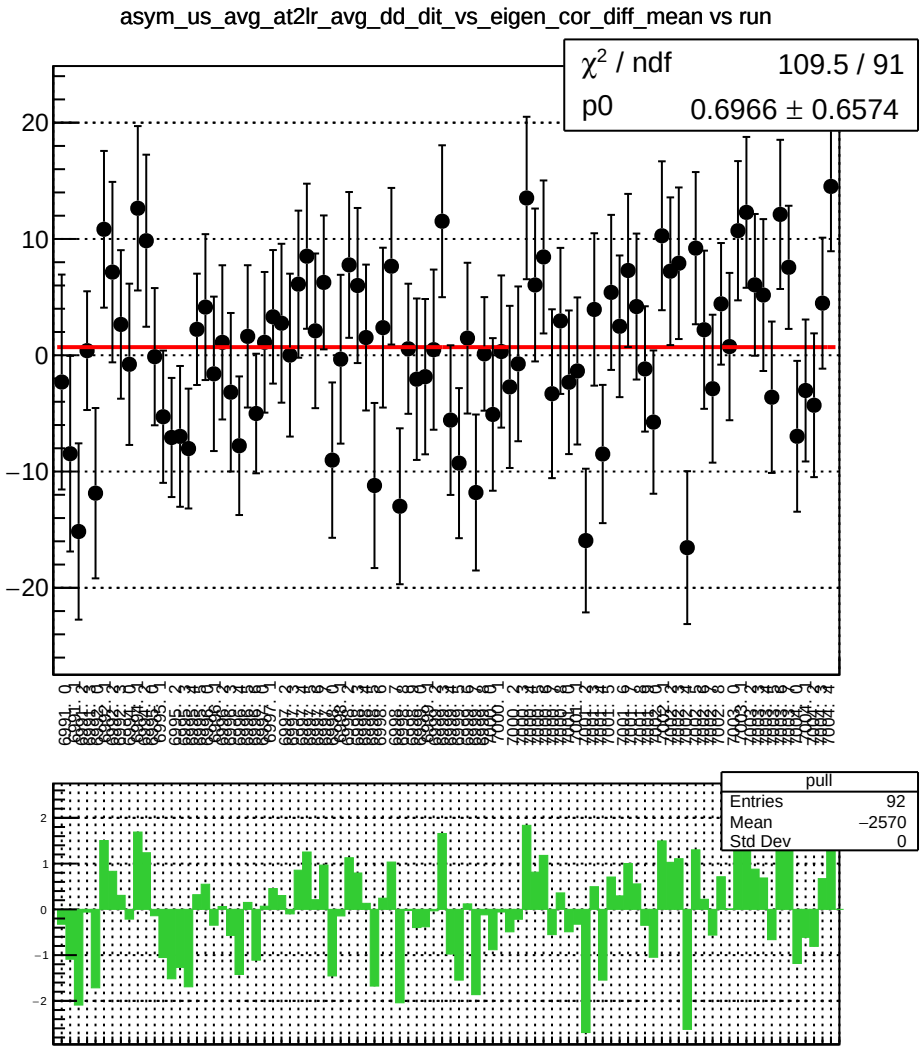

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 91
p0 −8.079e−14 ± 1.626e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −839.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.006566
Std Dev 1.098
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

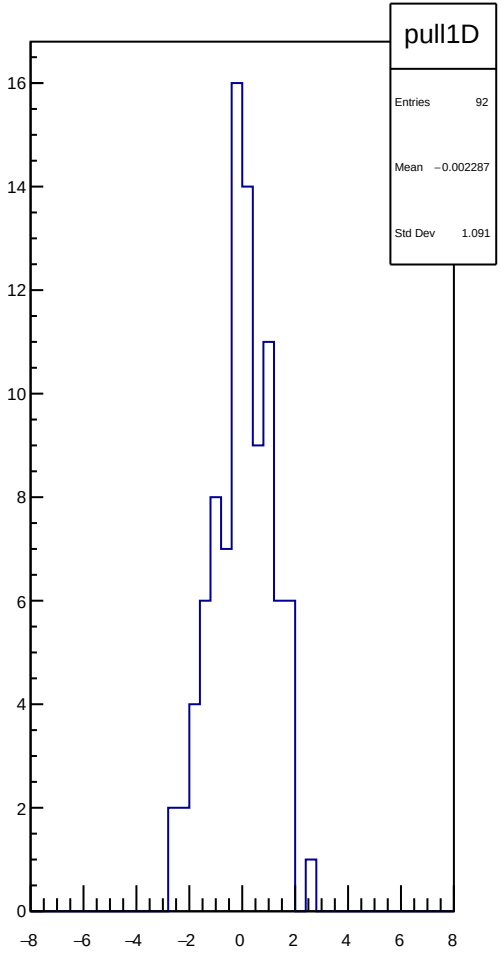

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.161e+06 / 91
p0 8.939e−11 ± 1.15e−13
1.2
1
0.8
0.6
0.4
0.2
0

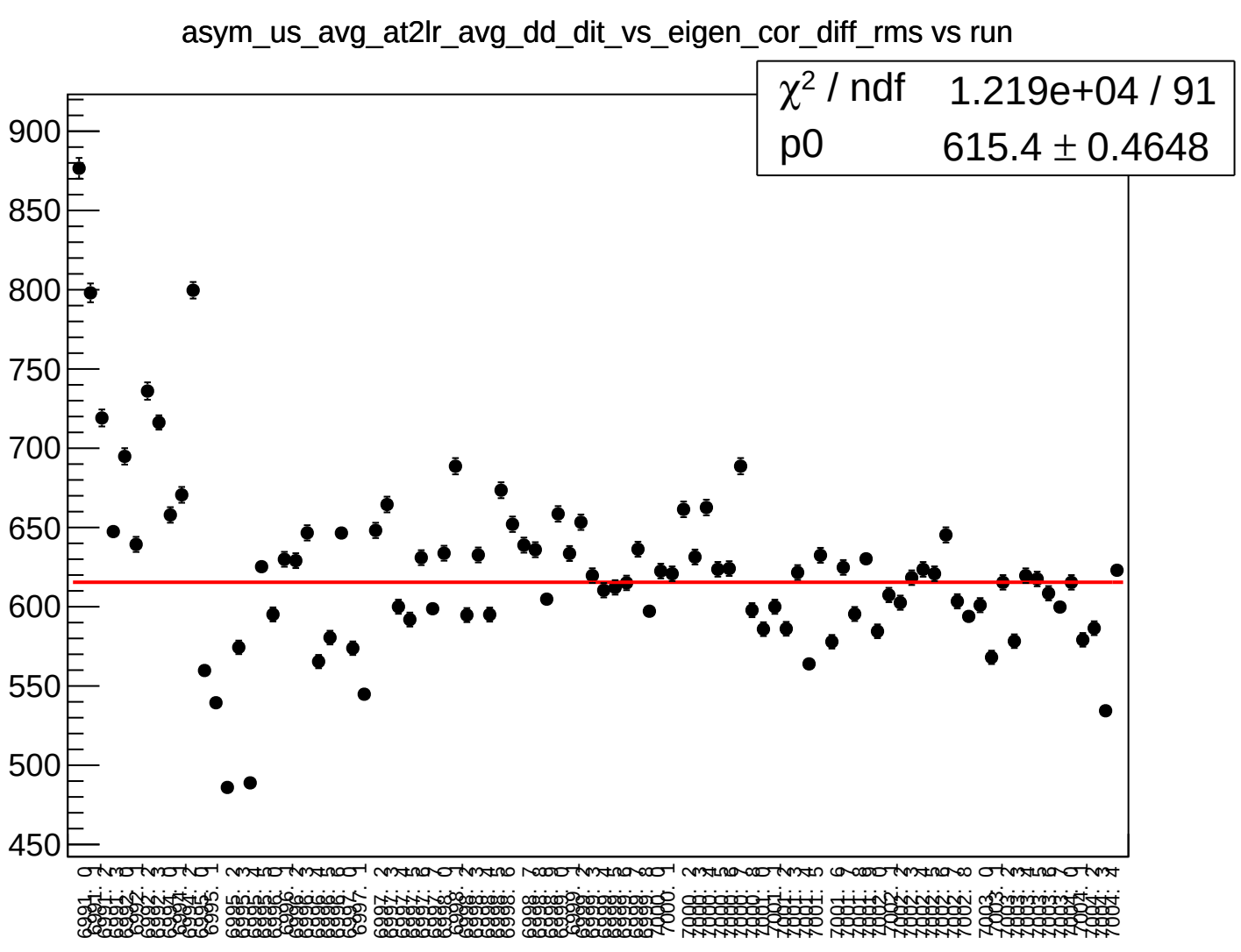

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.5 / 91
p0 0.6966 ± 0.6574
pull
Entries 92
Mean −2570
Std Dev 0

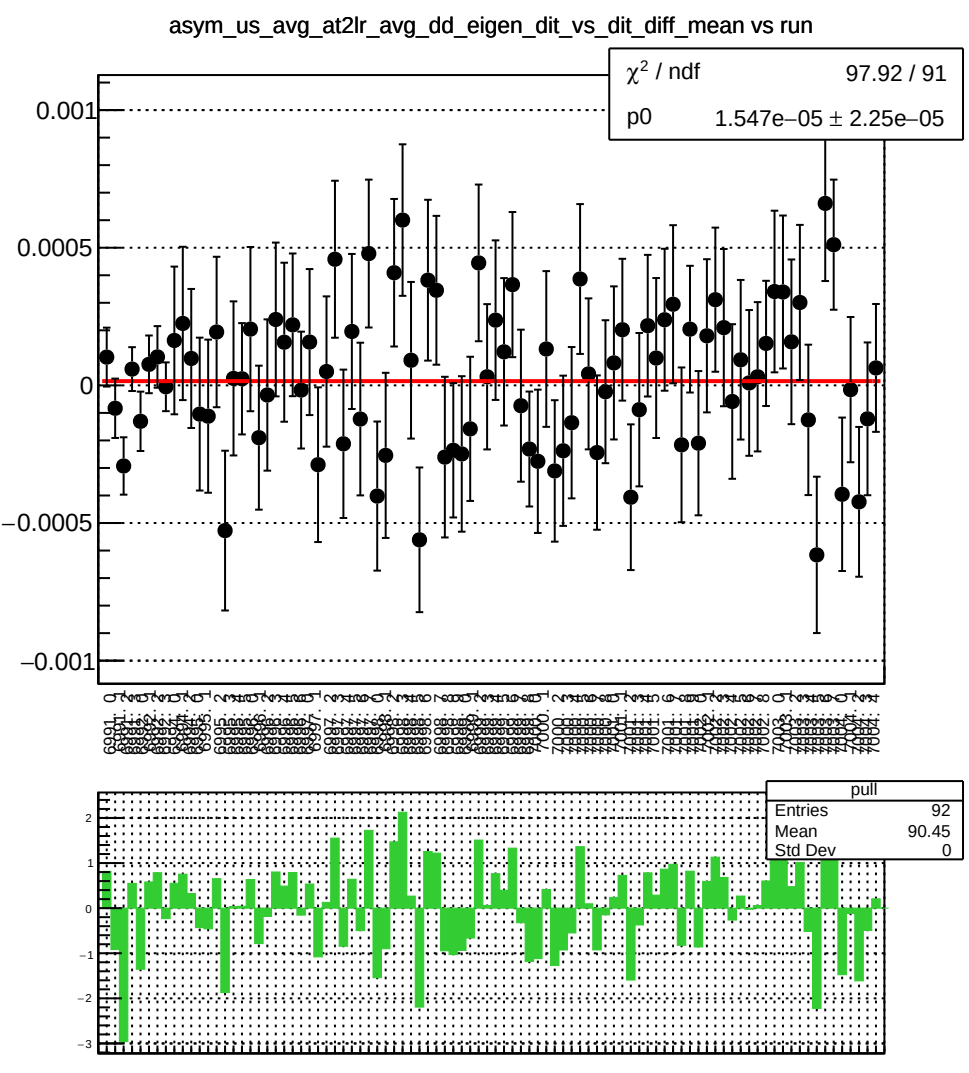

pull1D
Entries 92
Mean −0.002287
Std Dev 1.091

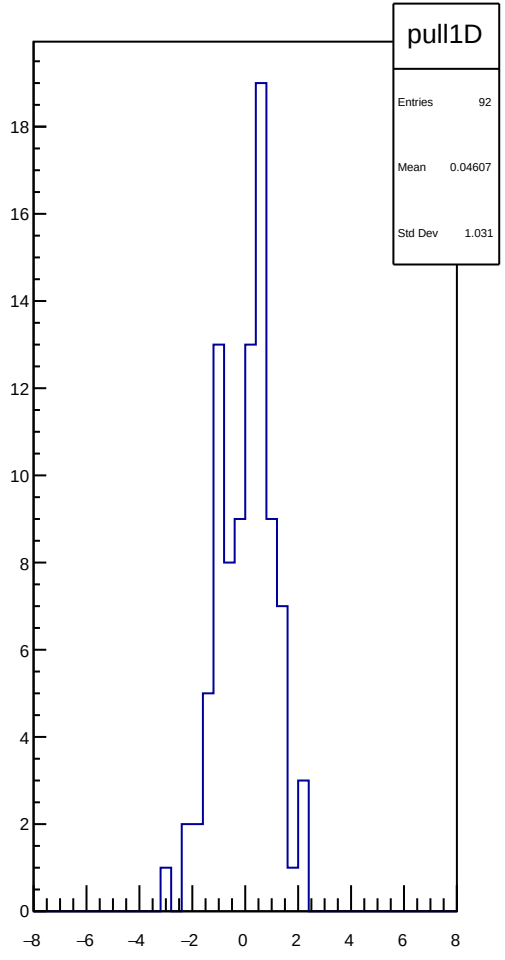

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.219e+04 / 91
p0 615.4 ± 0.4648
900
850
800
750
700
650
600
550
500
450

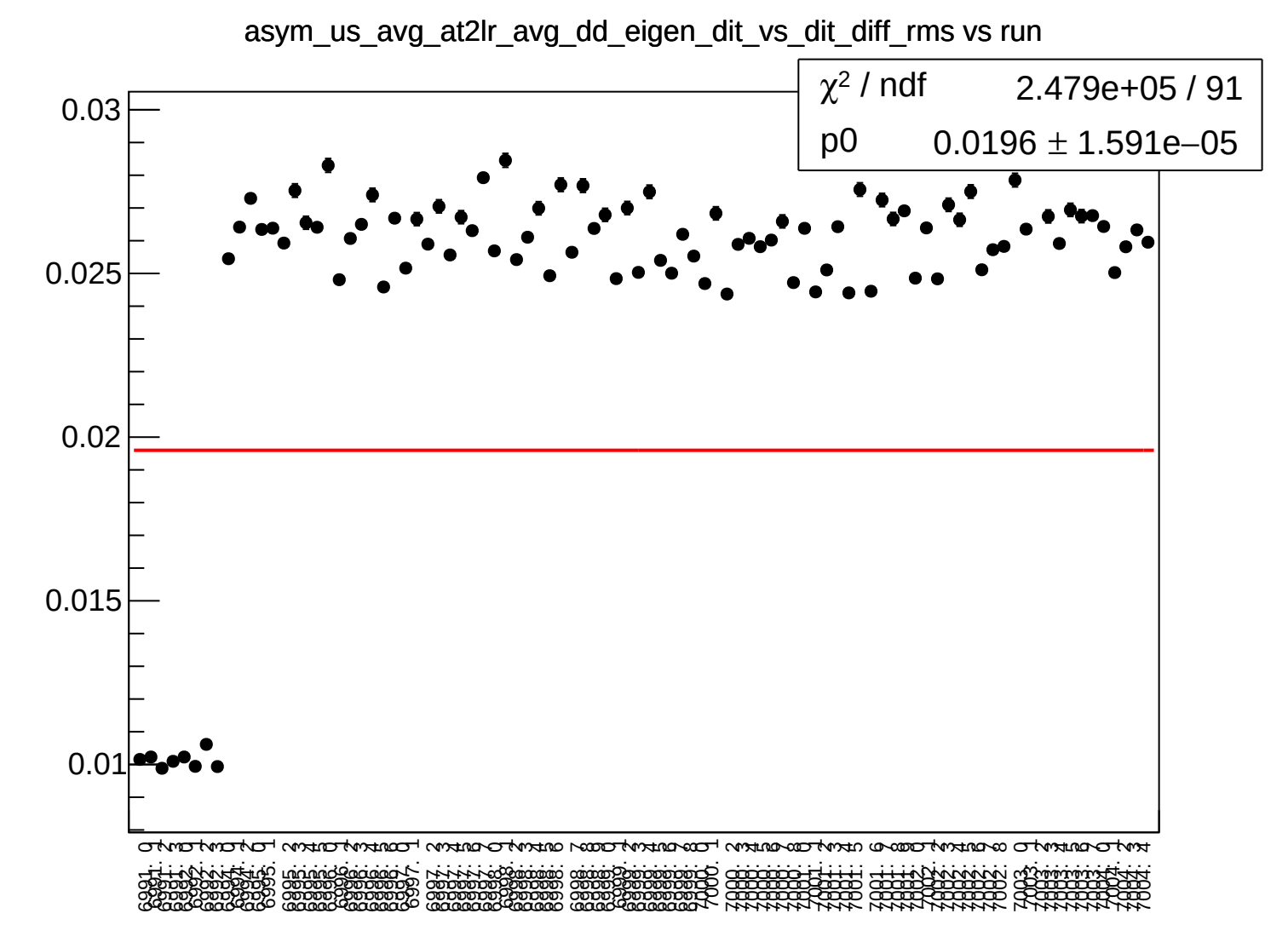

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.5 / 91
p0 0.6966 ± 0.6574
pull
Entries 92
Mean −2570
Std Dev 0

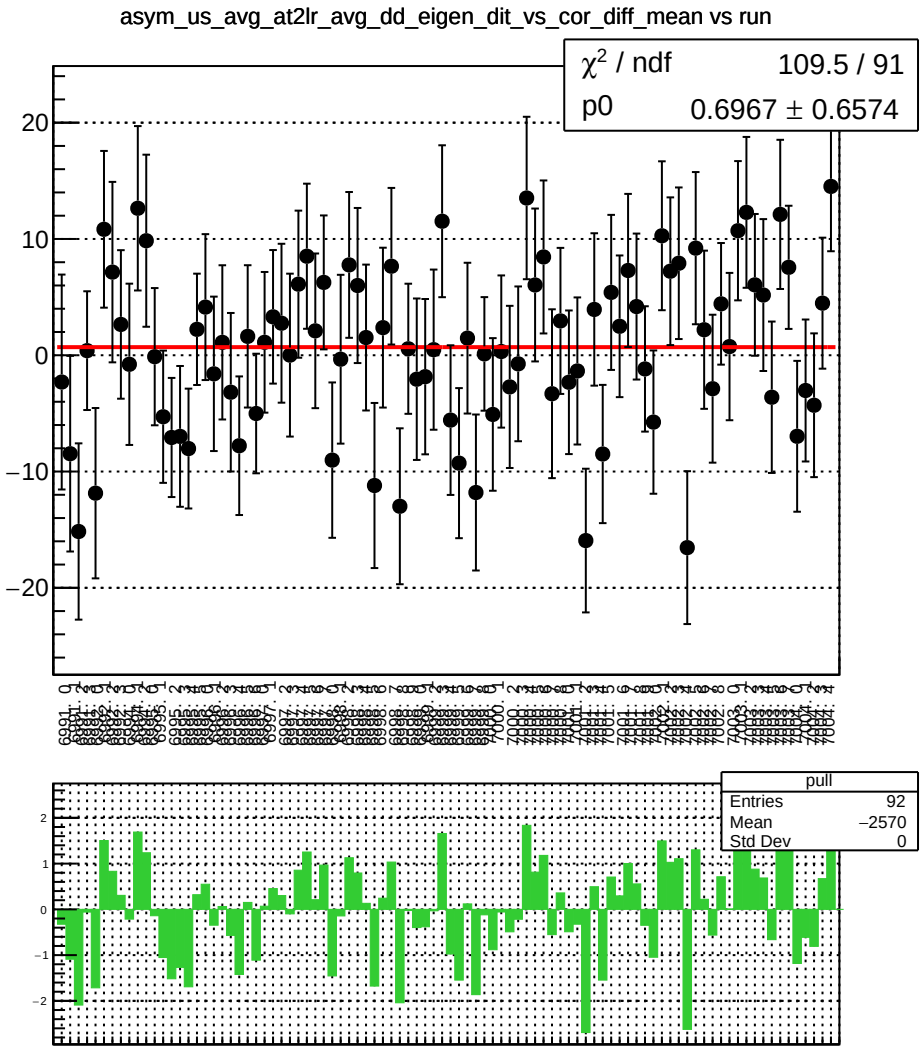

pull1D
Entries 92
Mean −0.002287
Std Dev 1.091

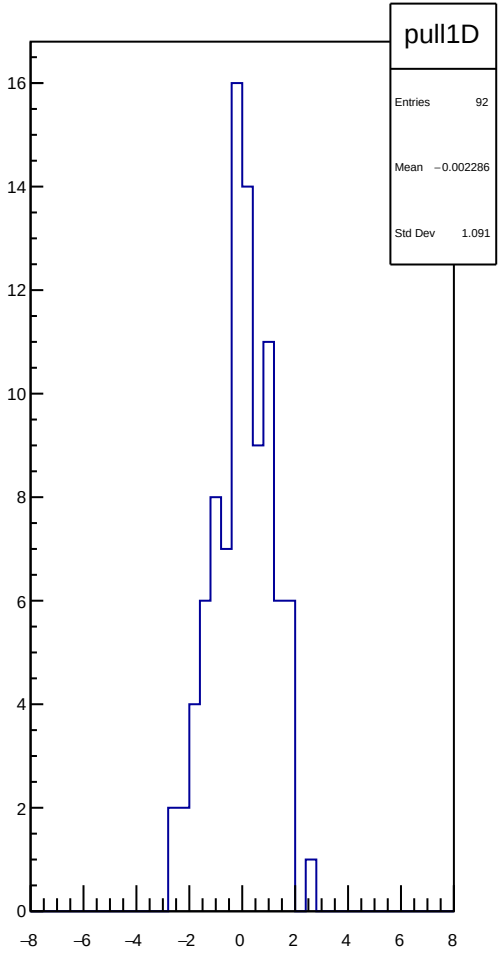

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.219e+04 / 91
p0 615.4 ± 0.4648
900
850
800
750
700
650
600
550
500
450

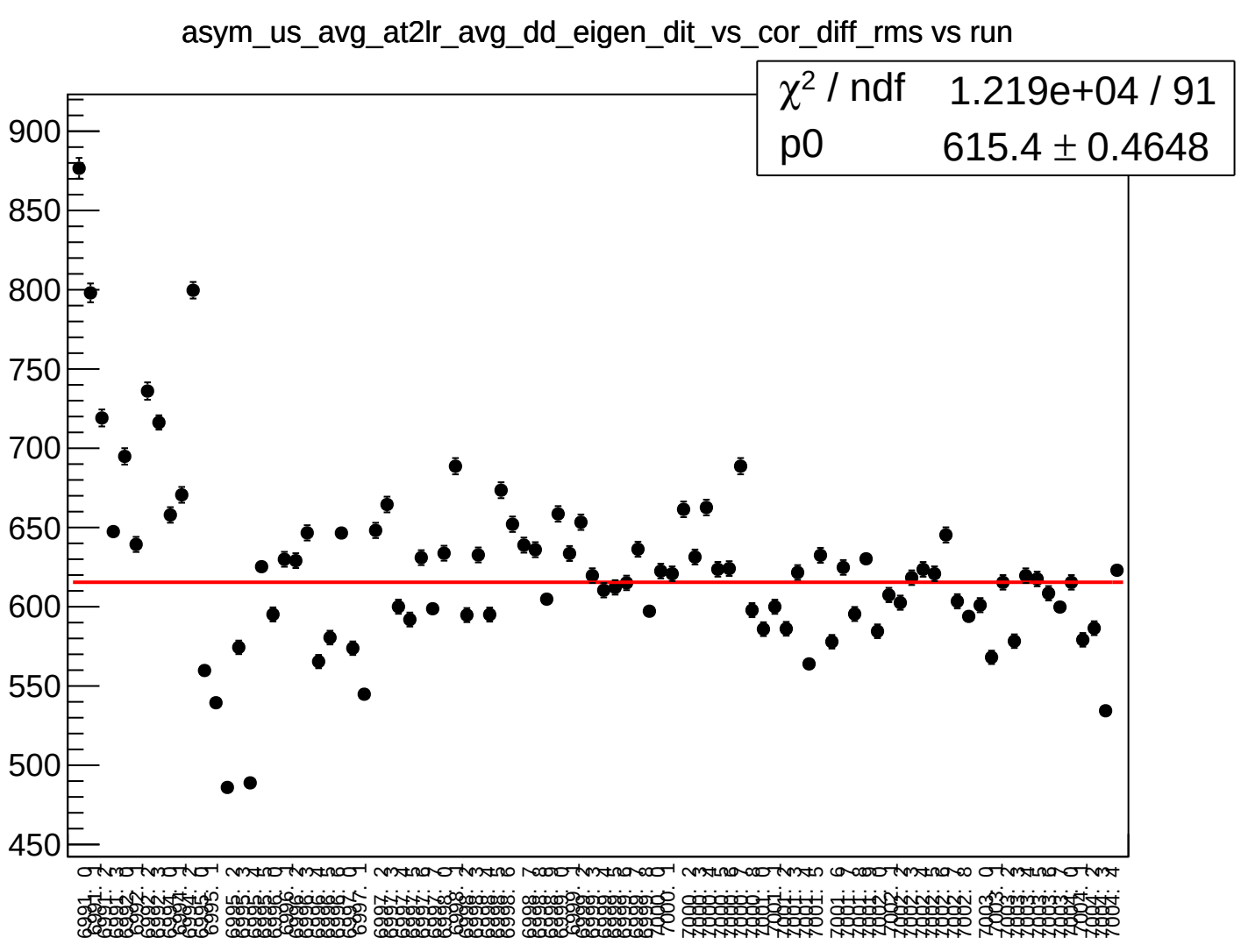

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 97.92 / 91
p0 1.547e−05 ± 2.25e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 90.45
Std Dev 0
2
1
0
−1
−2
−3

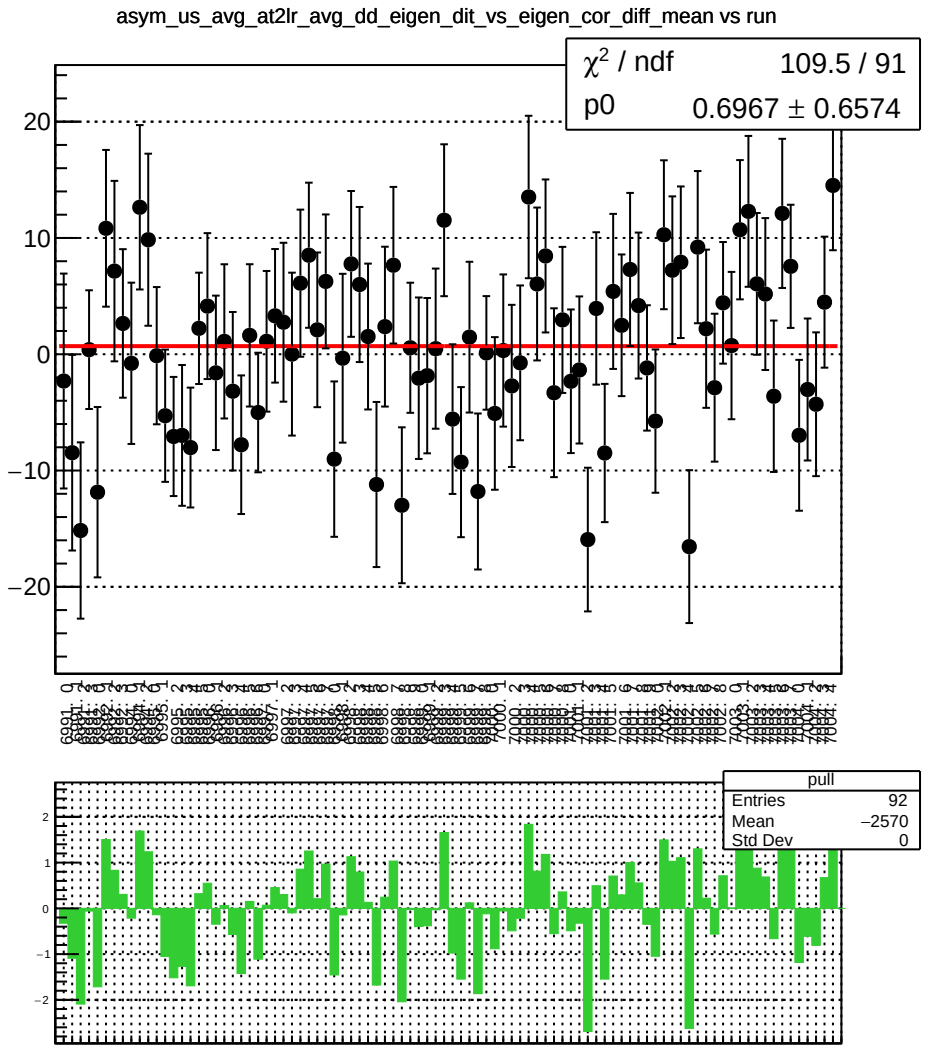

pull1D
Entries 92
Mean 0.04607
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

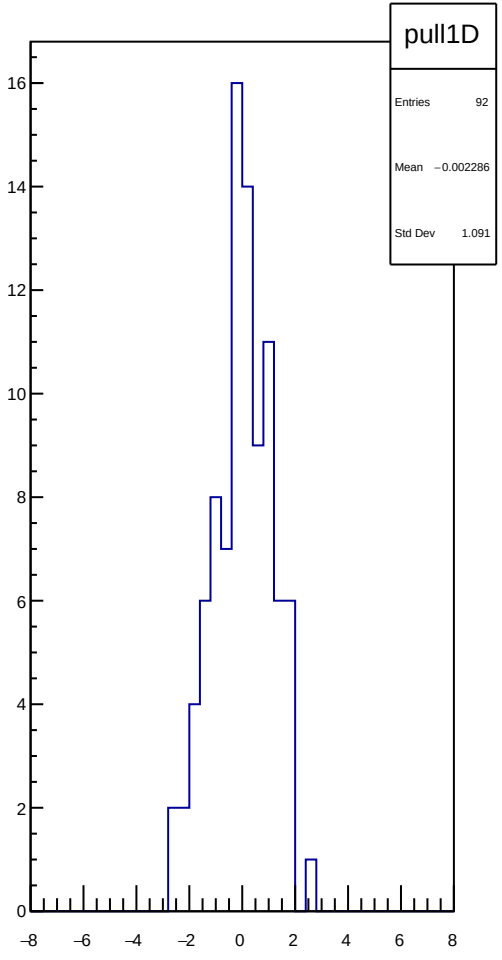

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.479e+05 / 91
p0 0.0196 ± 1.591e−05
0.03
0.025
0.02
0.015
0.01

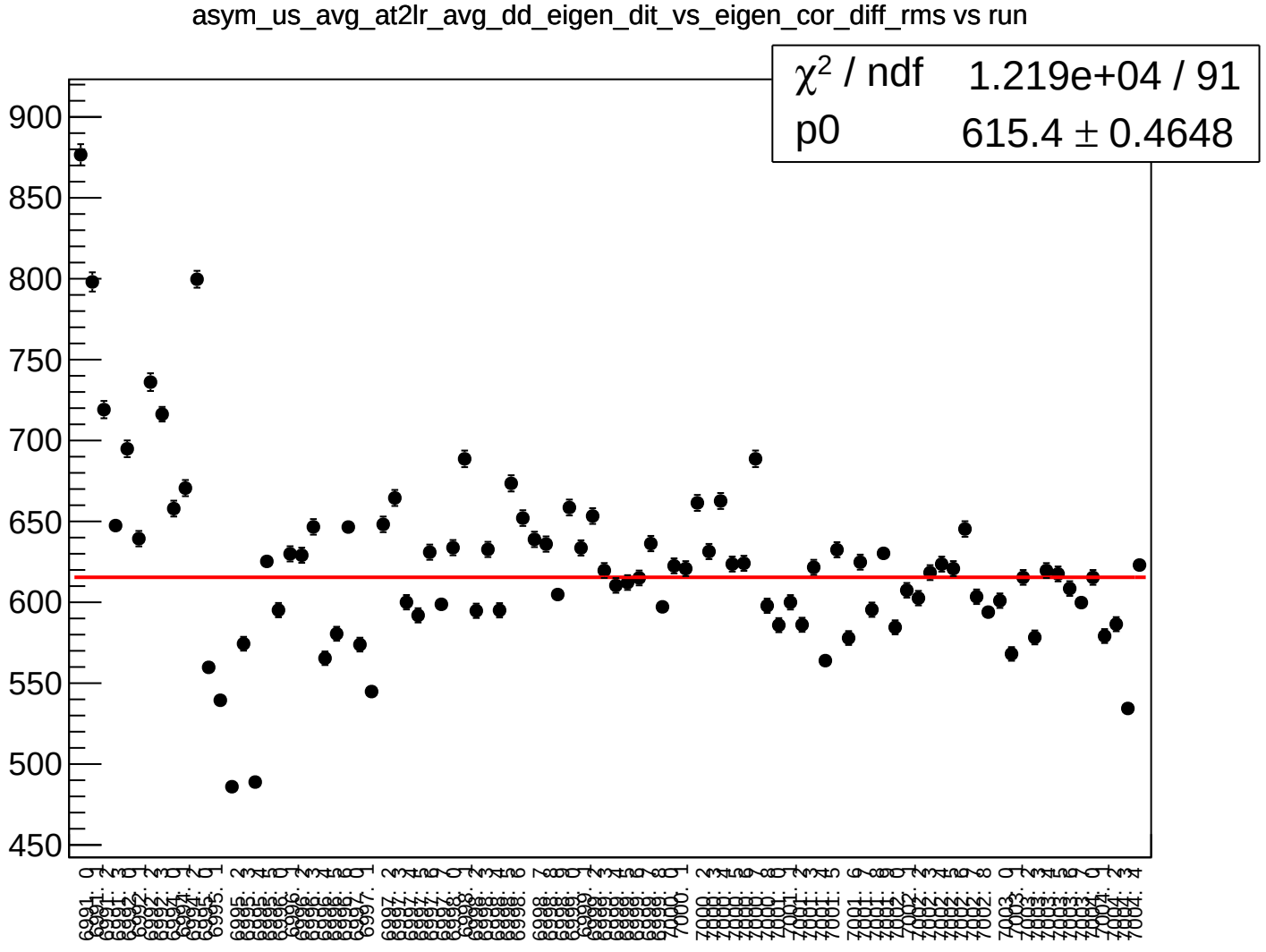

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.5 / 91
p0 0.6967 ± 0.6574
pull
Entries 92
Mean −2570
Std Dev 0

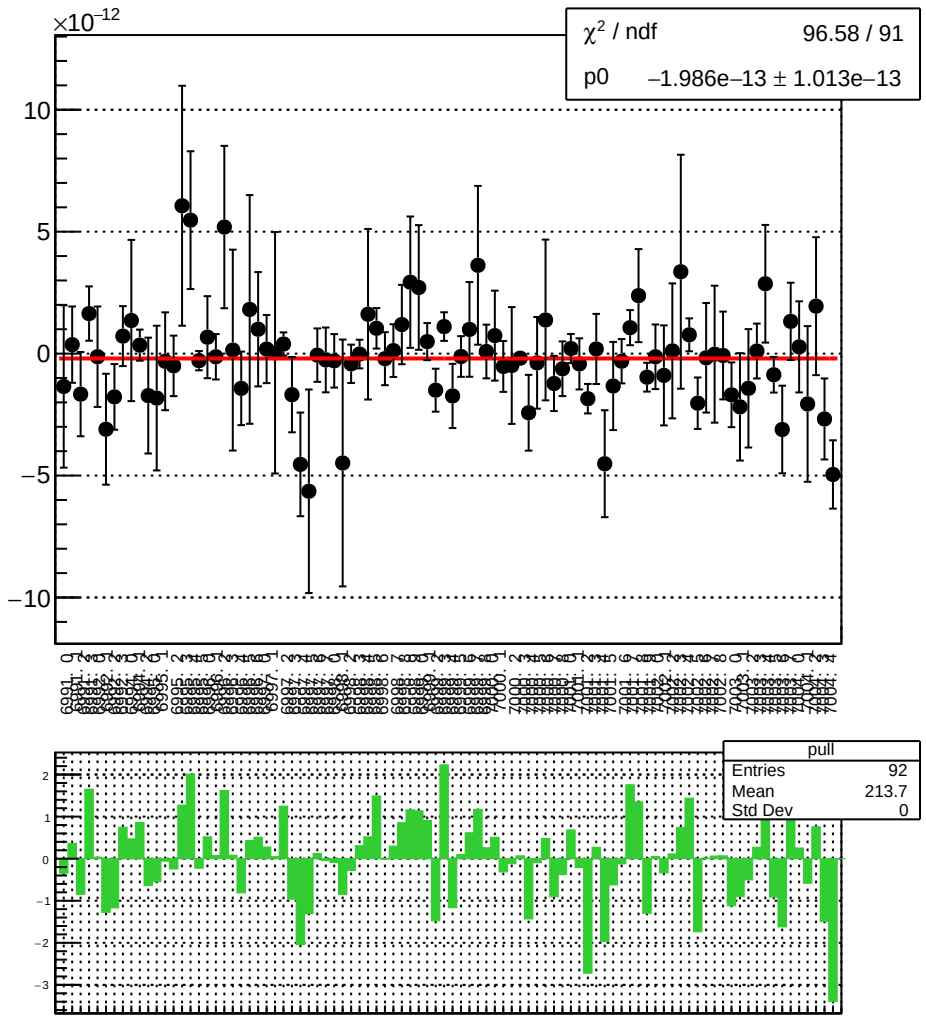

pull1D
Entries 92
Mean −0.002286
Std Dev 1.091

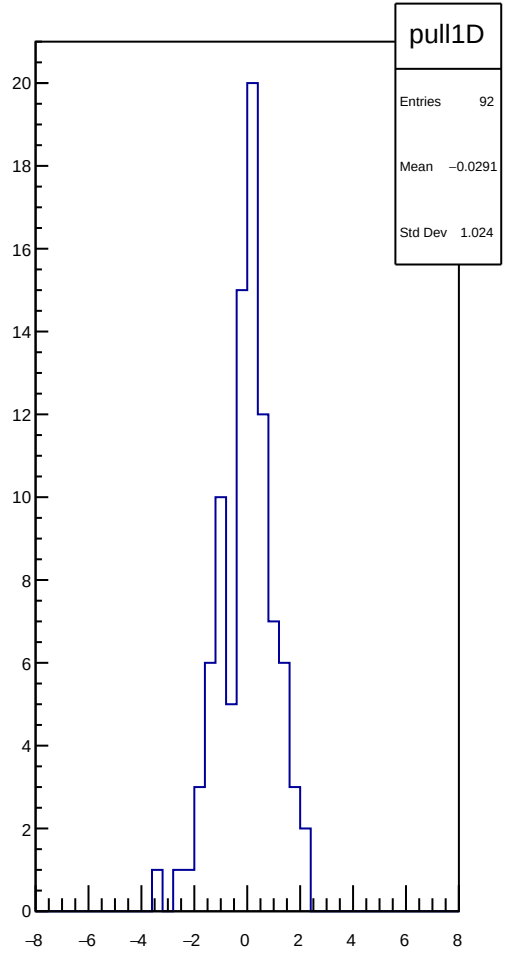

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.219e+04 / 91
p0 615.4 ± 0.4648
900
850
800
750
700
650
600
550
500
450

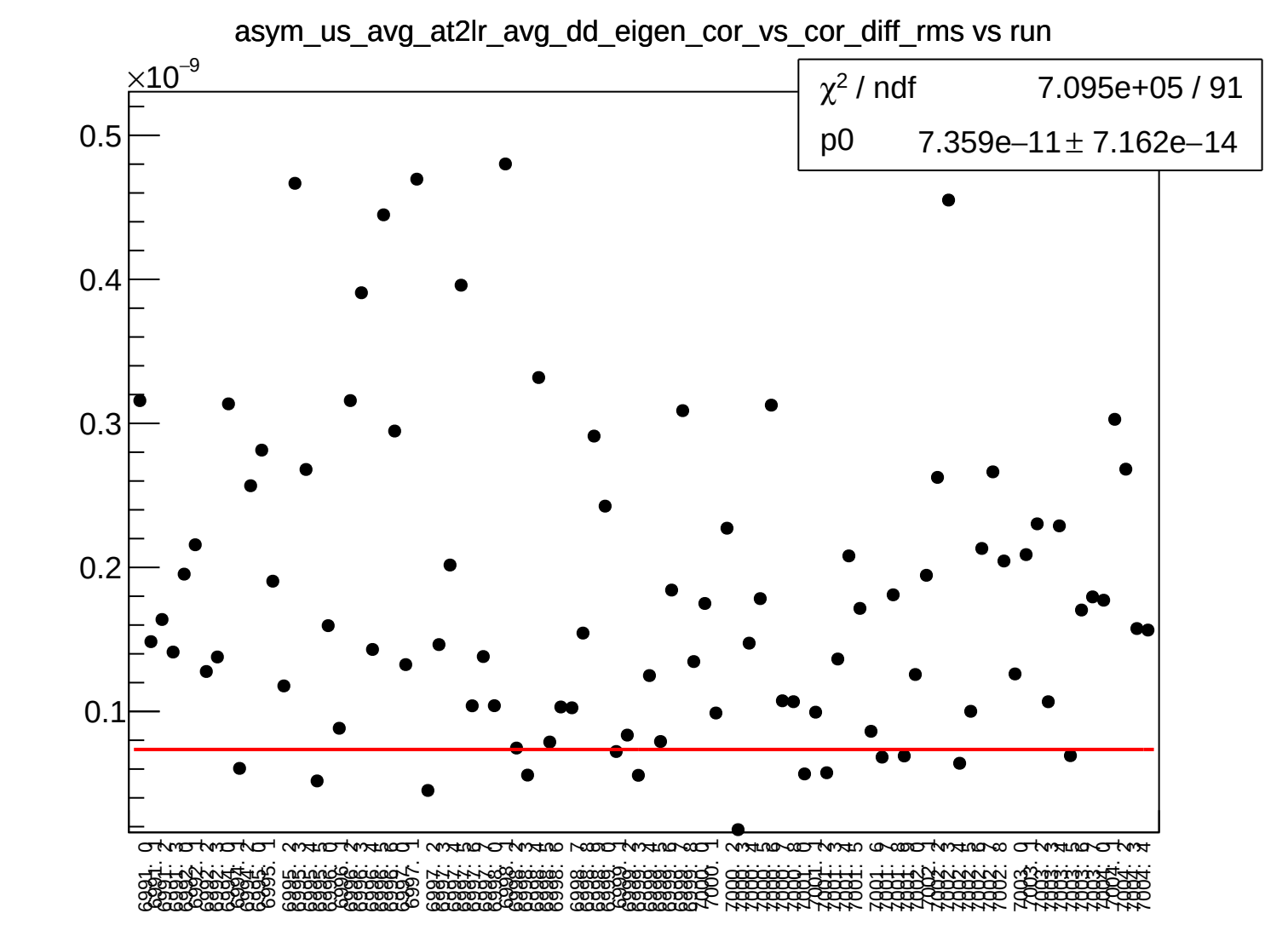

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.5 / 91
p0 0.6967 ± 0.6574
pull
Entries 92
Mean −2570
Std Dev 0

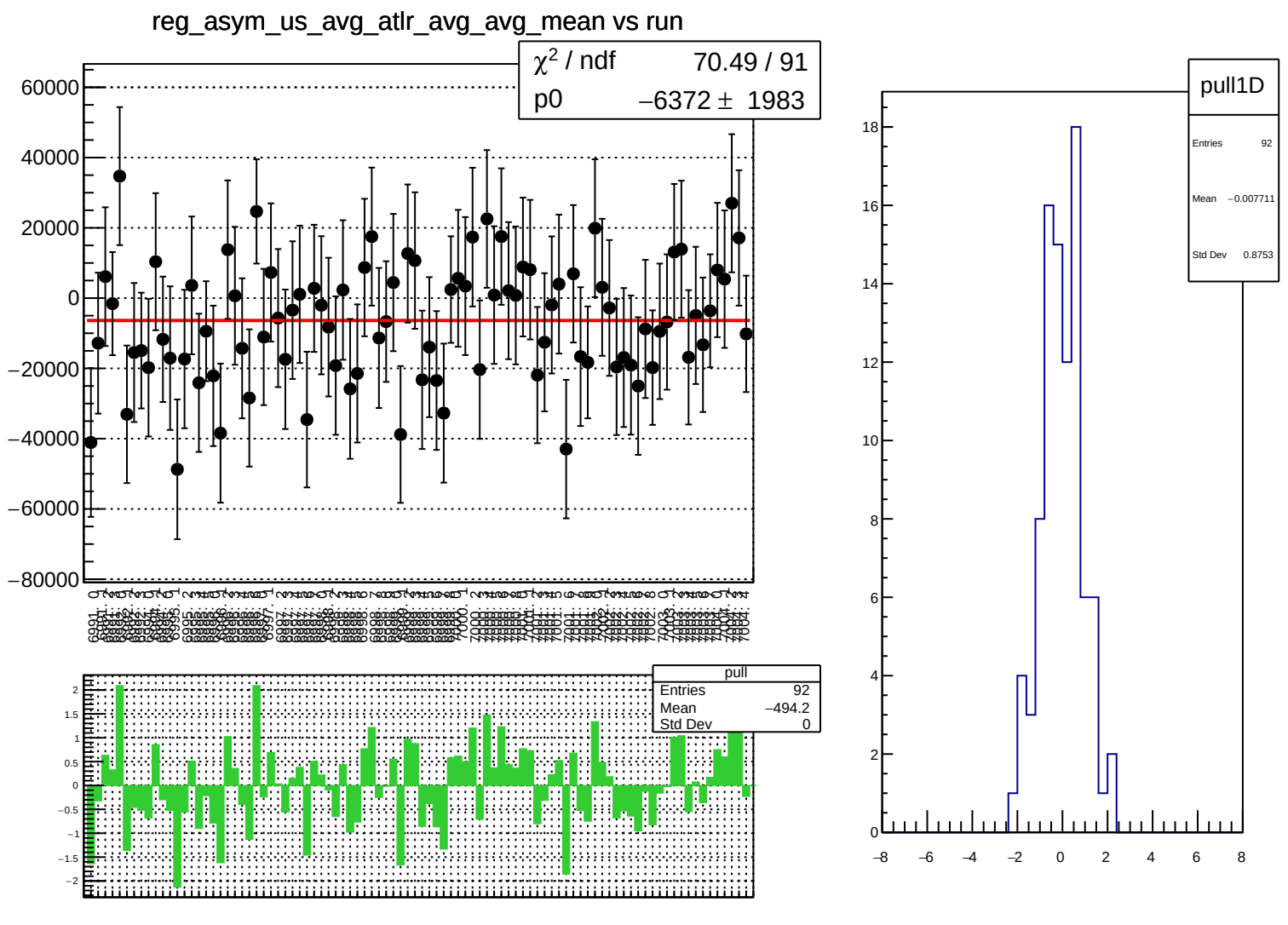

pull1D
Entries 92
Mean −0.002286
Std Dev 1.091

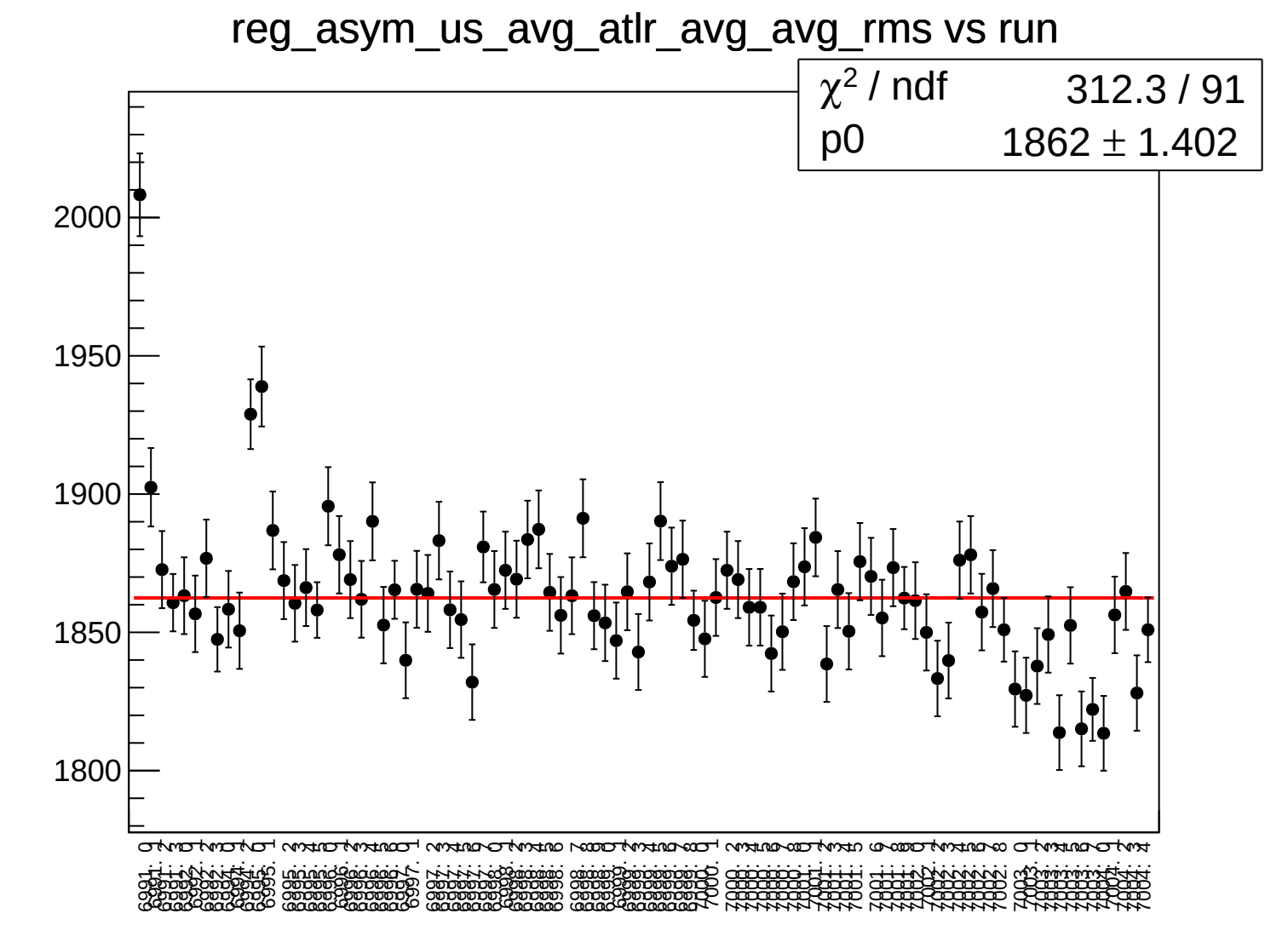

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.219e+04 / 91
p0 615.4 ± 0.4648
900
850
800
750
700
650
600
550
500
450

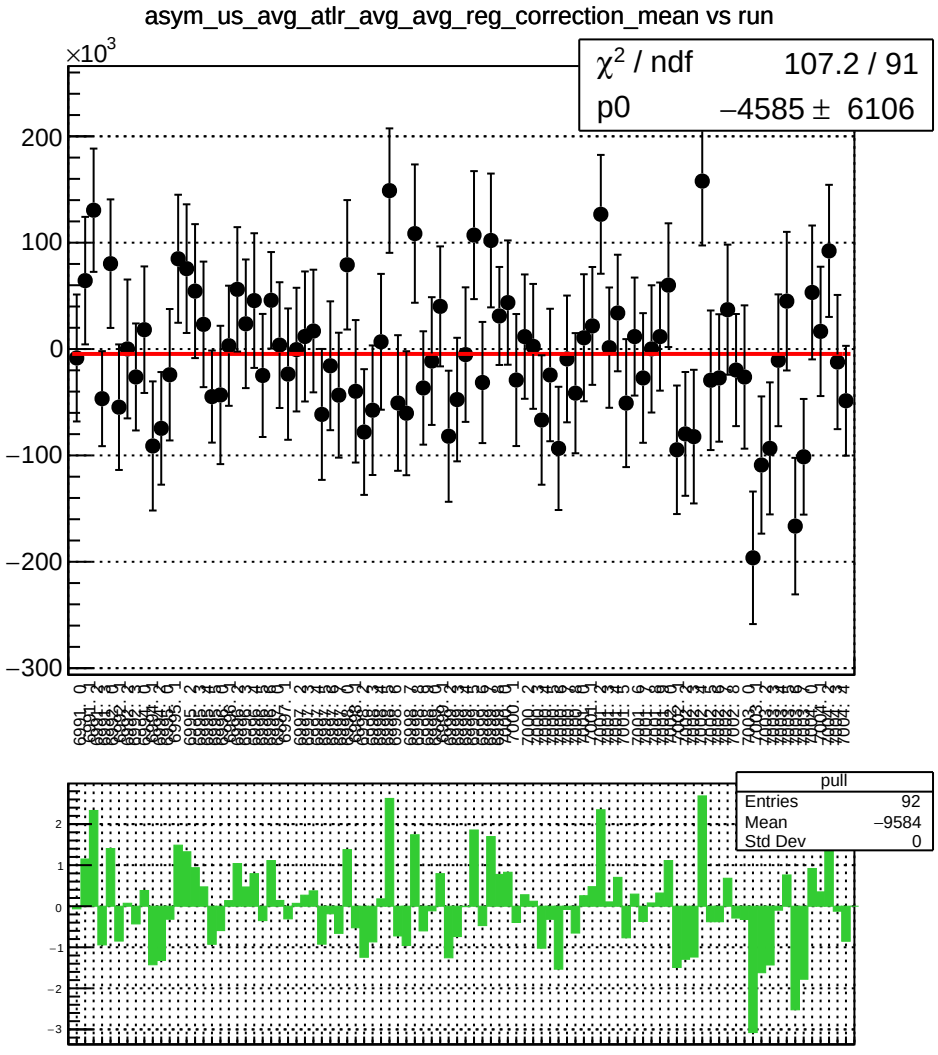

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.58 / 91
p0 −1.986e−13 ± 1.013e−13
10
5
0
−5
−10
pull
Entries 92
Mean 213.7
Std Dev 0
2
1
0
−1
−2
−3

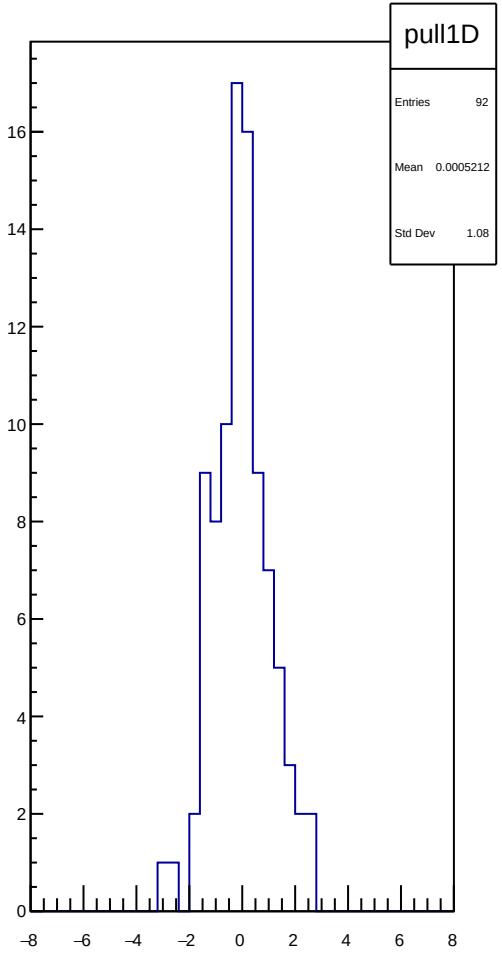

pull1D
Entries 92
Mean −0.0291
Std Dev 1.024
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

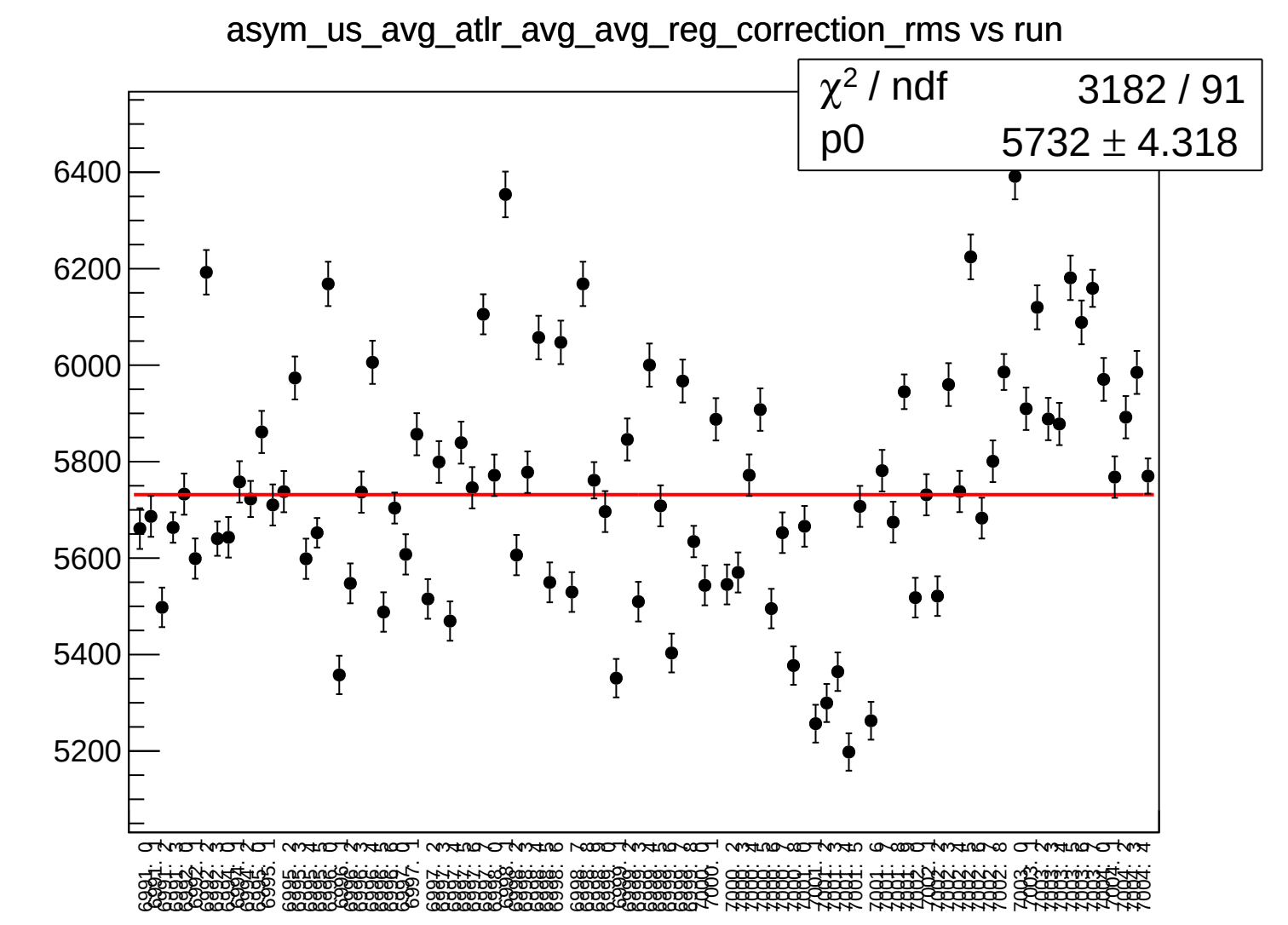

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.095e+05 / 91
p0 7.359e−11 ± 7.162e−14
0.5
0.4
0.3
0.2
0.1

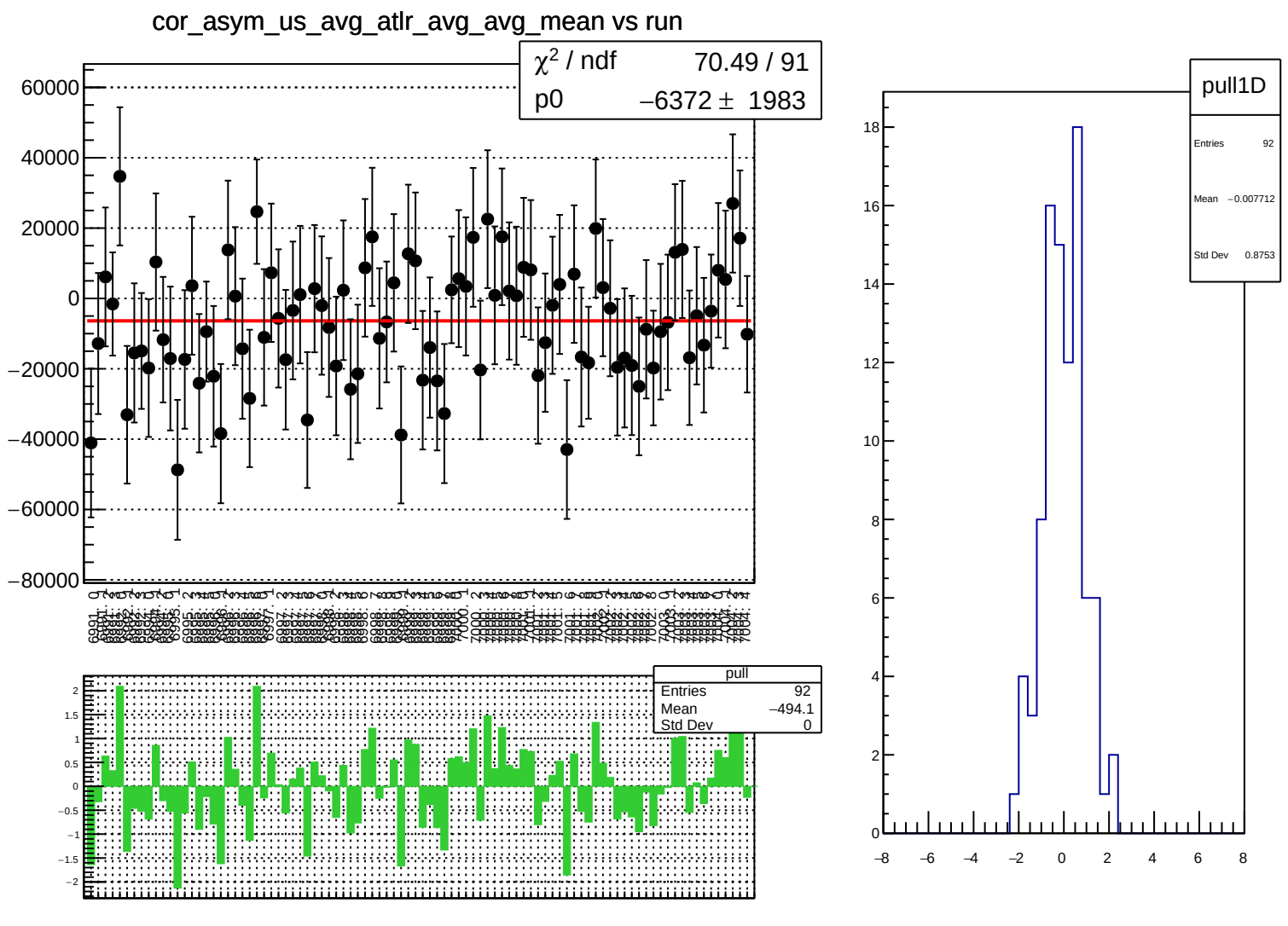

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 70.49 / 91
p0 −6372 ± 1983
pull
Entries 92
Mean −494.2
Std Dev 0
pull1D
Entries 92
Mean −0.007711
Std Dev 0.8753

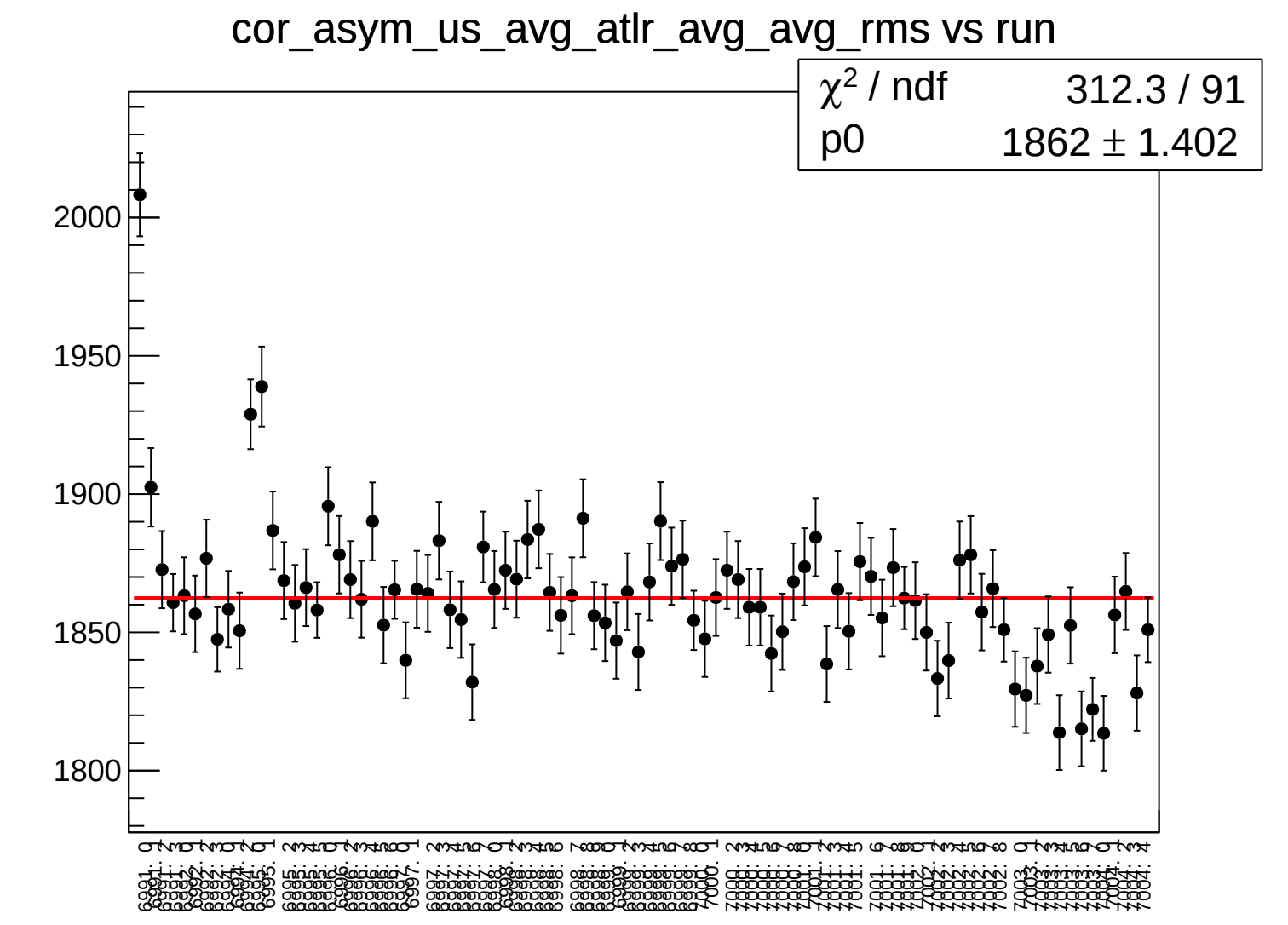

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 312.3 / 91
p0 1862 ± 1.402
2000
1950
1900
1850
1800

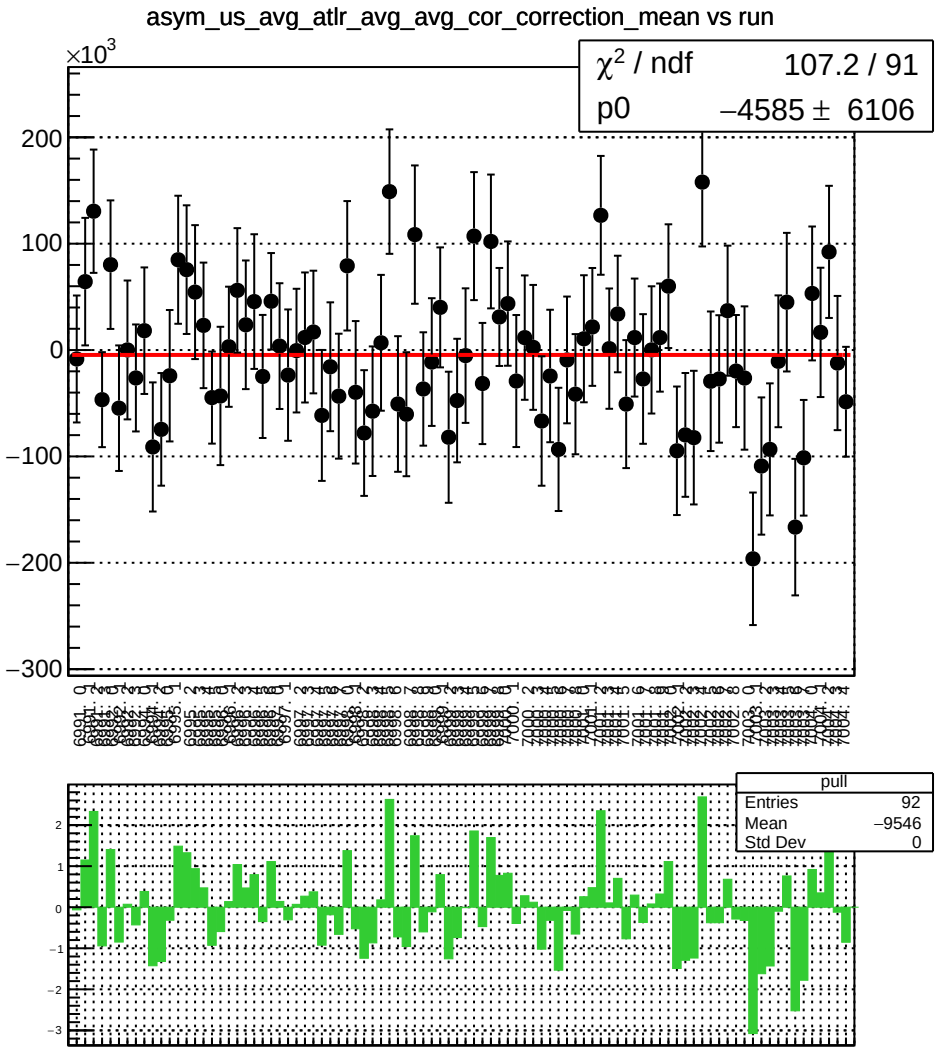

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 107.2 / 91
p0 −4585 ± 6106
200
100
0
−100
−200
−300
pull
Entries 92
Mean −9584
Std Dev 0
2
1
0
−1
−2
−3

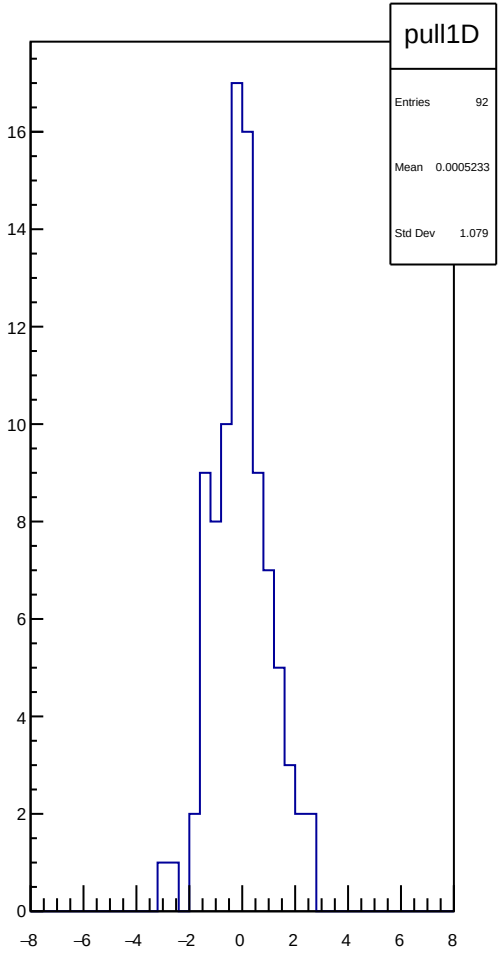

pull1D
Entries 92
Mean 0.0005212
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

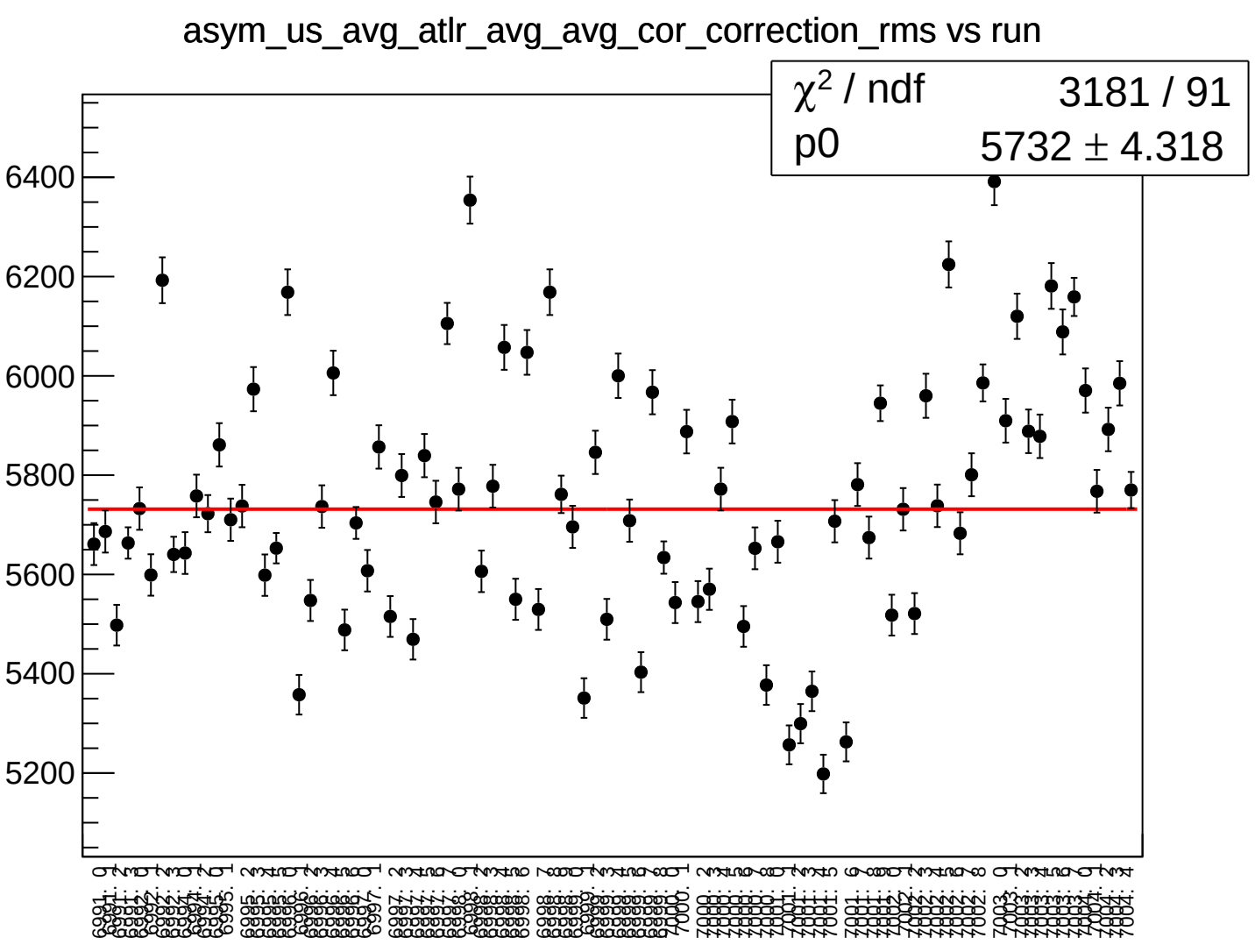

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 3182 / 91
p0 5732 ± 4.318
6400
6200
6000
5800
5600
5400
5200

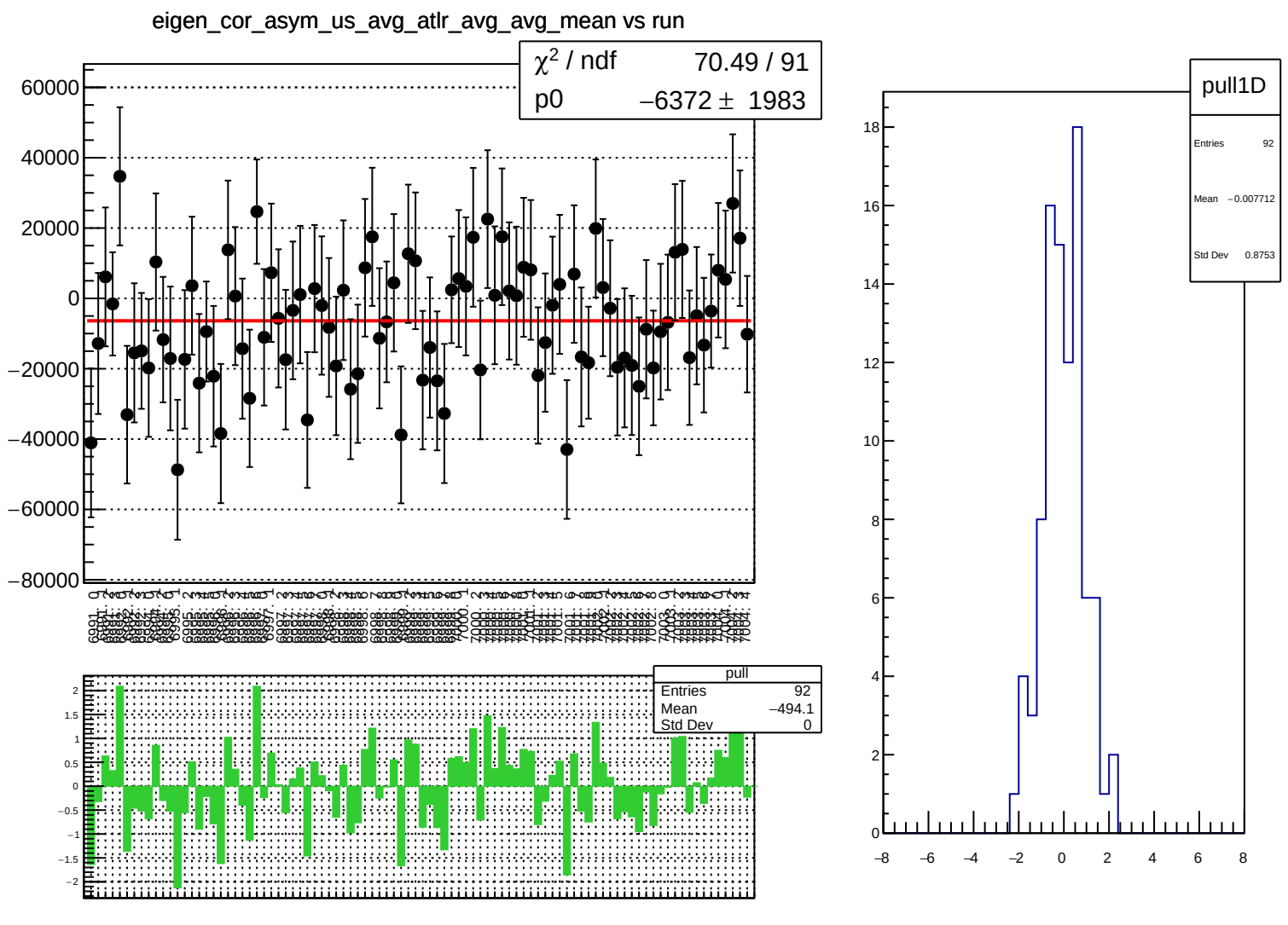

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 70.49 / 91
p0 −6372 ± 1983
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −494.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.007712
Std Dev 0.8753
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

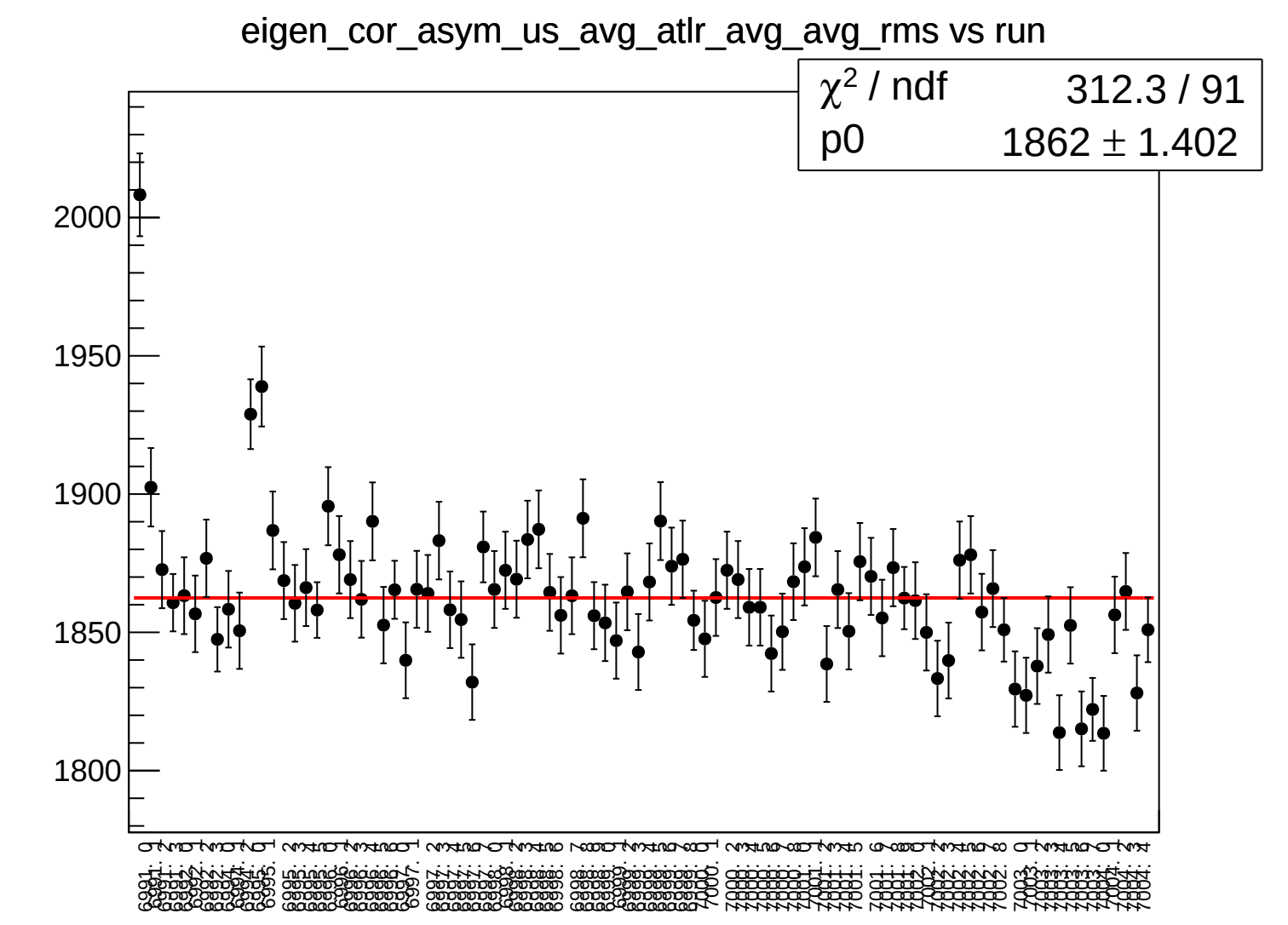

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 312.3 / 91
p0 1862 ± 1.402
2000
1950
1900
1850
1800

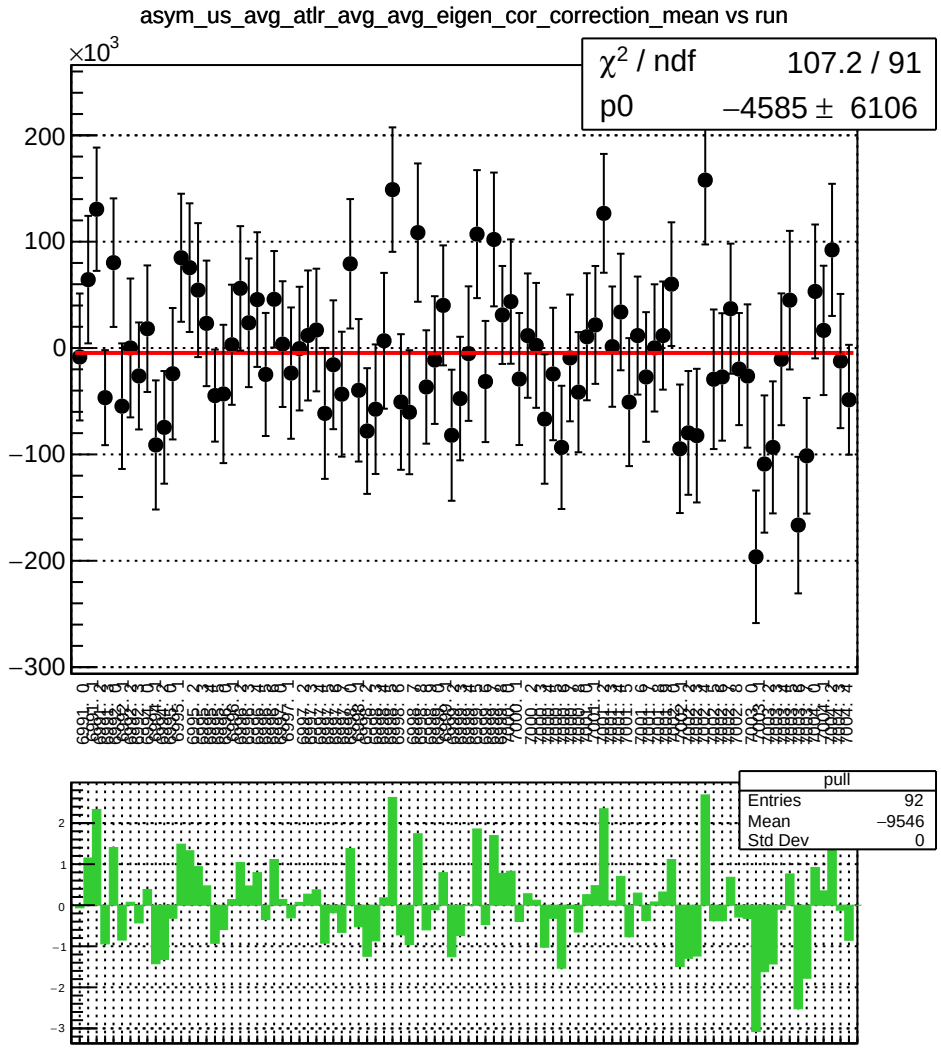

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 107.2 / 91
p0 −4585 ± 6106
200
100
0
−100
−200
−300
pull
Entries 92
Mean −9546
Std Dev 0
2
1
0
−1
−2
−3

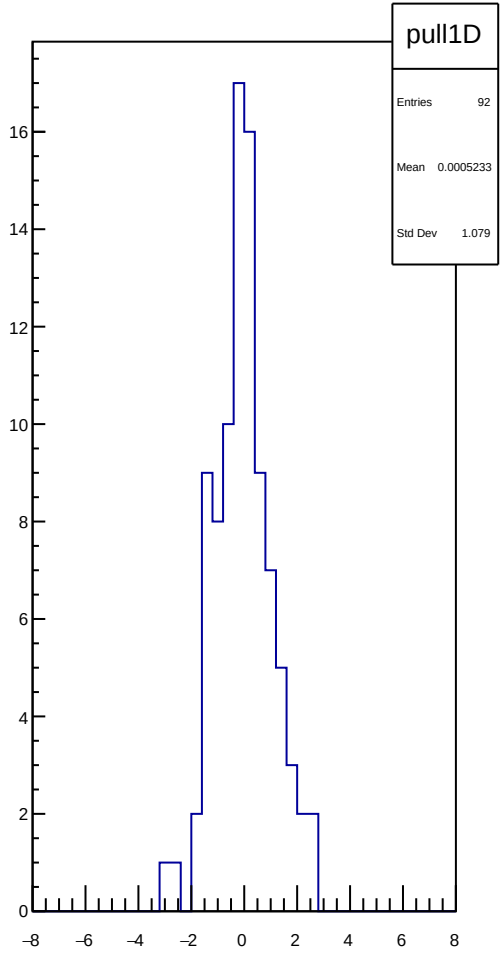

pull1D
Entries 92
Mean 0.0005233
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

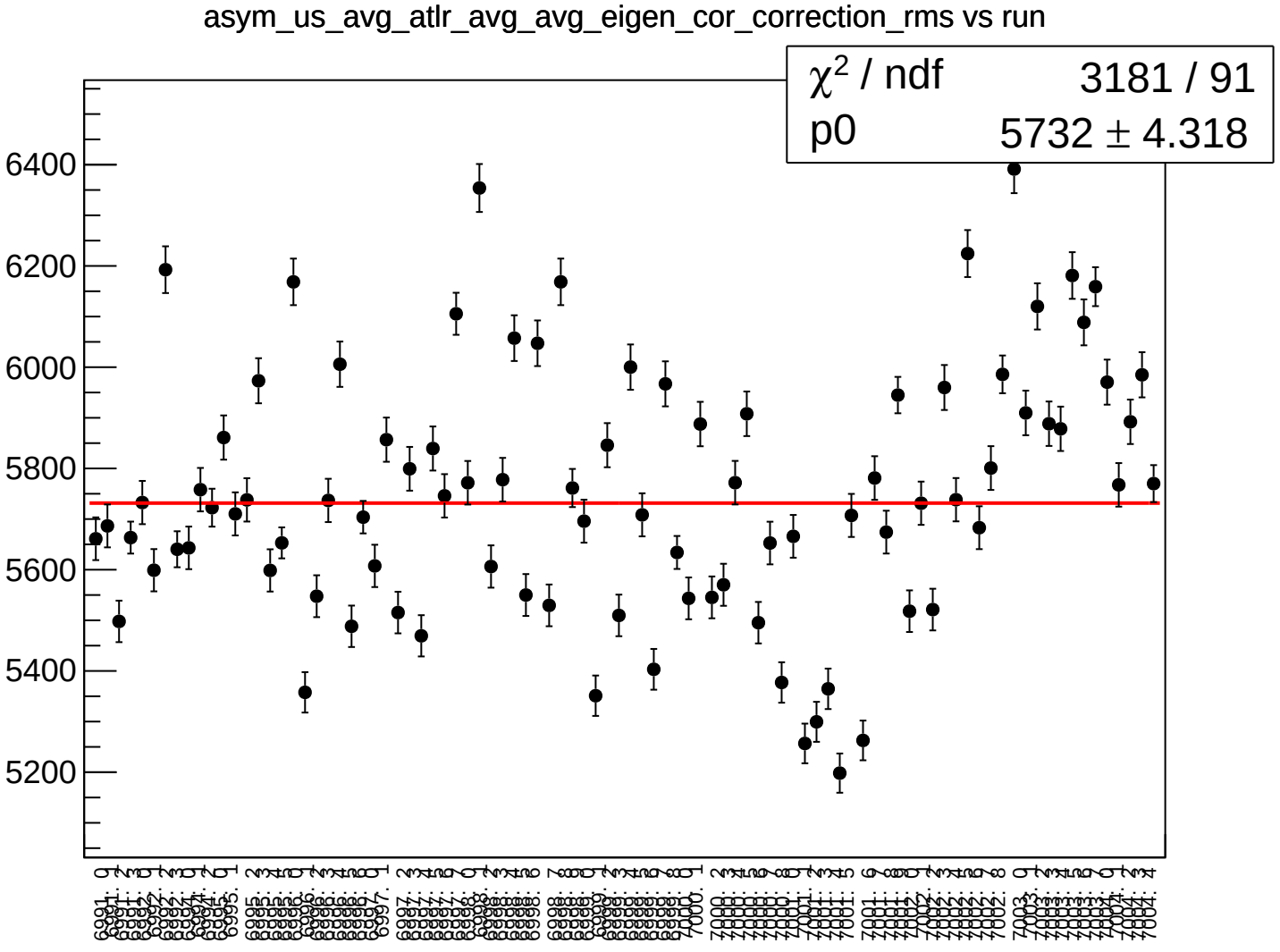

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 3181 / 91
p0 5732 ± 4.318
6400
6200
6000
5800
5600
5400
5200

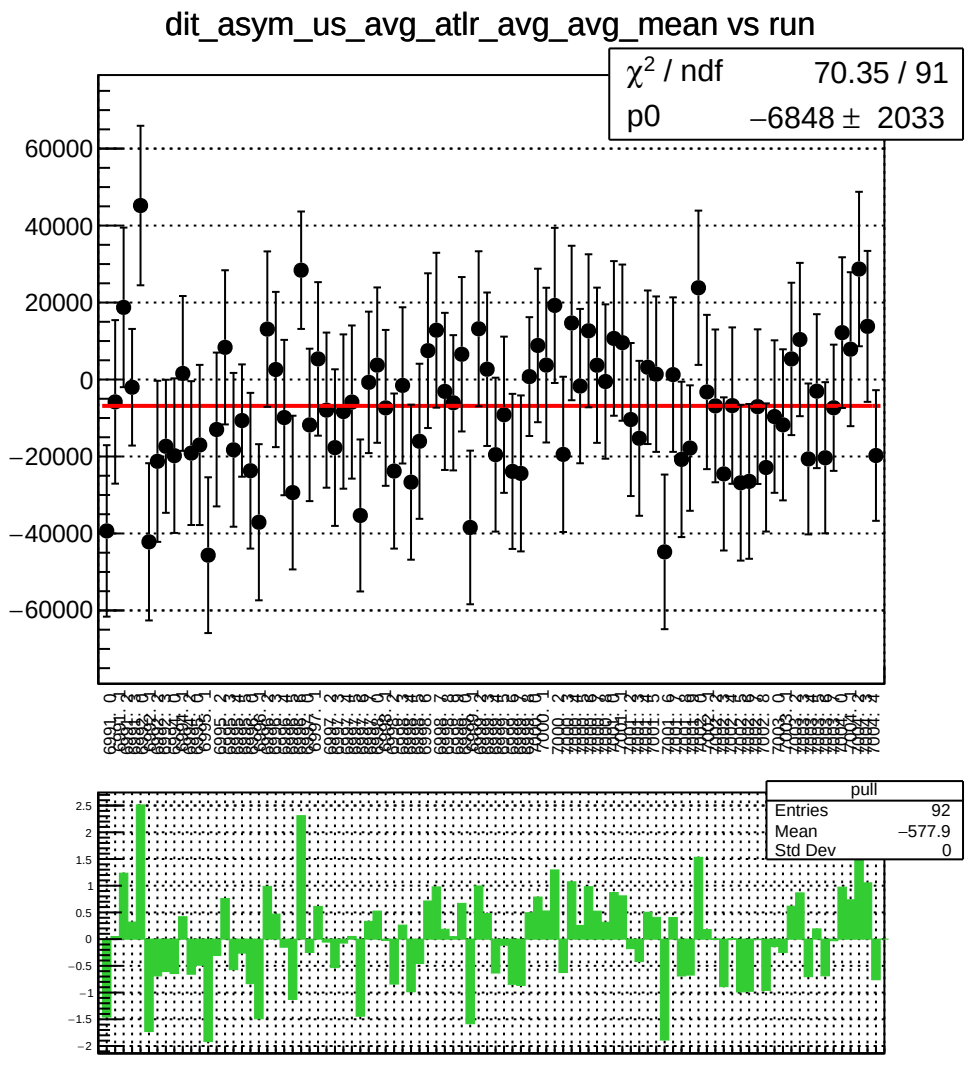

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 70.49 / 91
p0 −6372 ± 1983
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −494.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.007712
Std Dev 0.8753
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

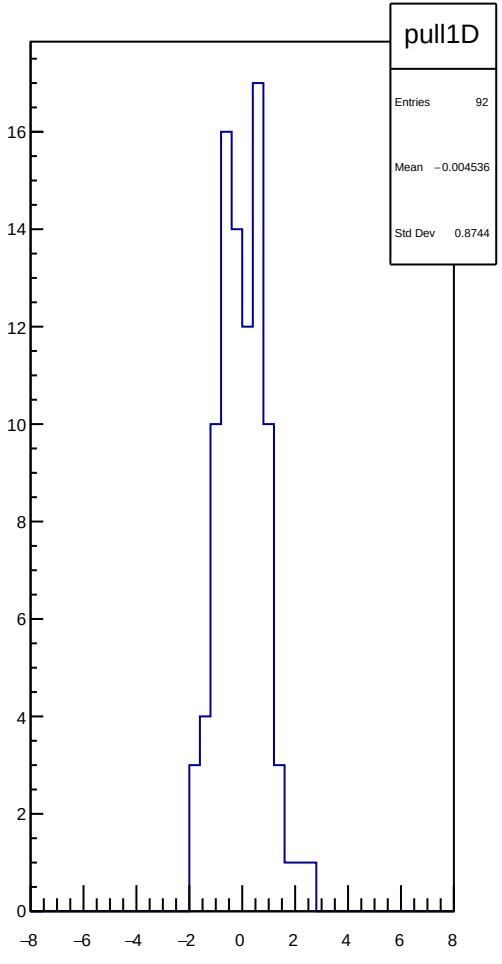

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 312.3 / 91
p0 1862 ± 1.402
2000
1950
1900
1850
1800

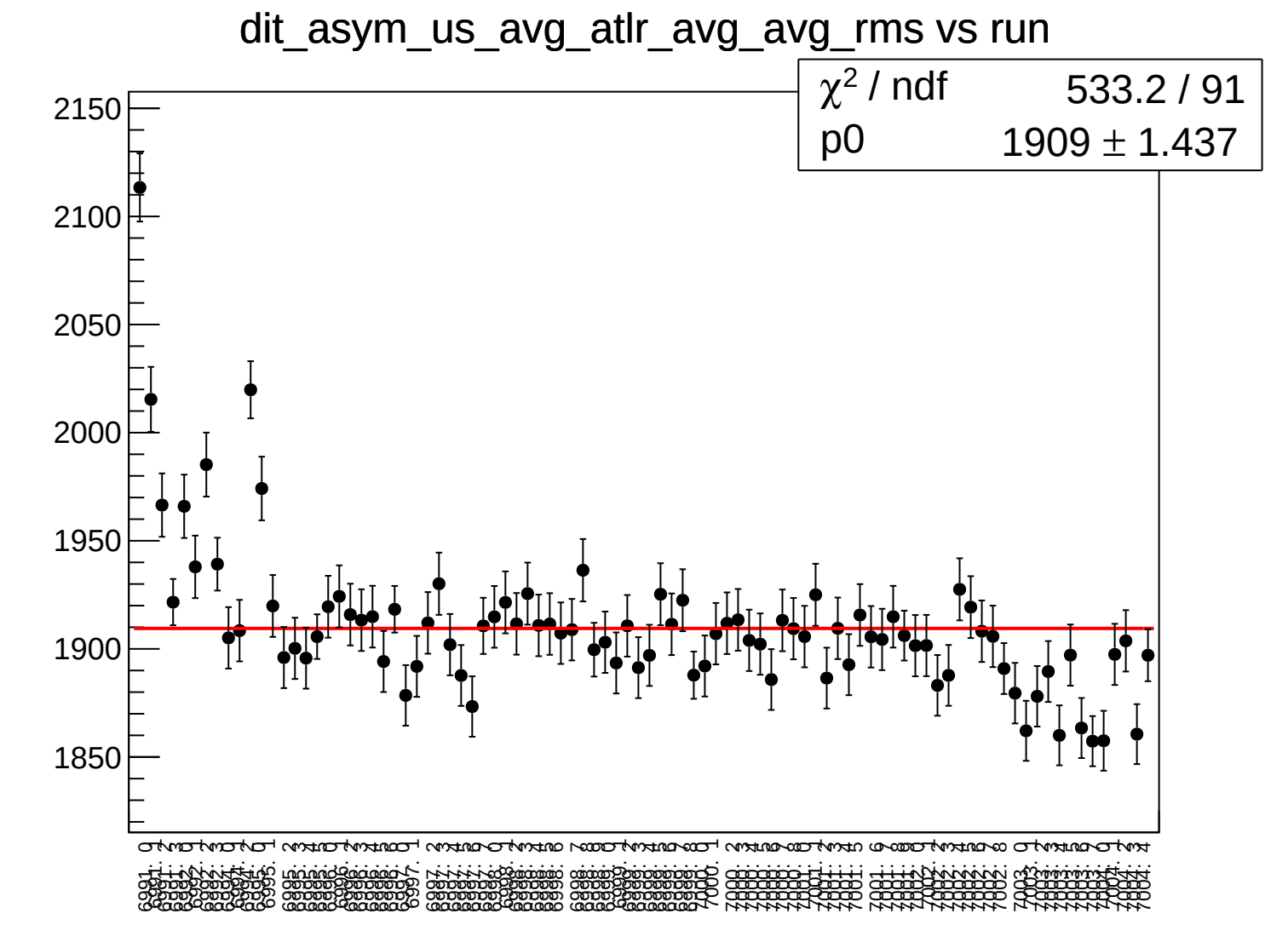

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.2 / 91
p0 −4585 ± 6106
200
100
0
−100
−200
−300
pull
Entries 92
Mean −9546
Std Dev 0
2
1
0
−1
−2
−3

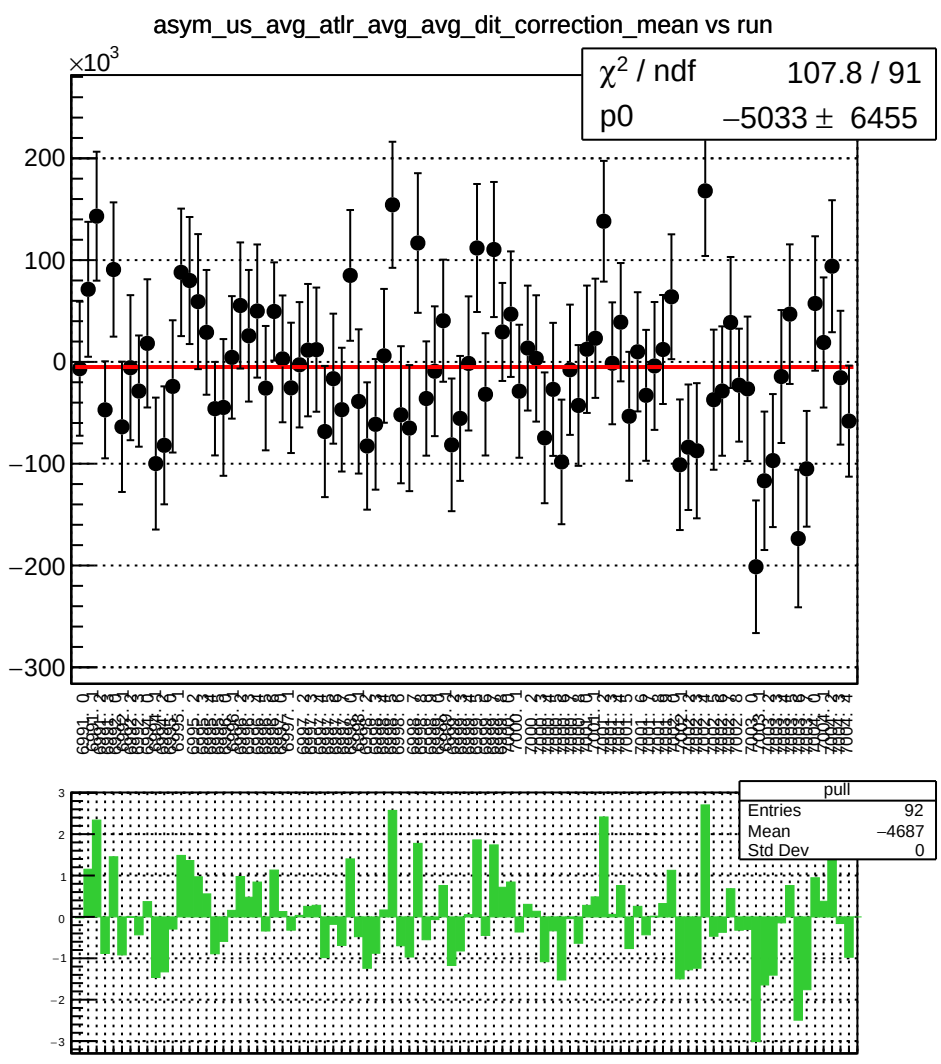

pull1D
Entries 92
Mean 0.0005233
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

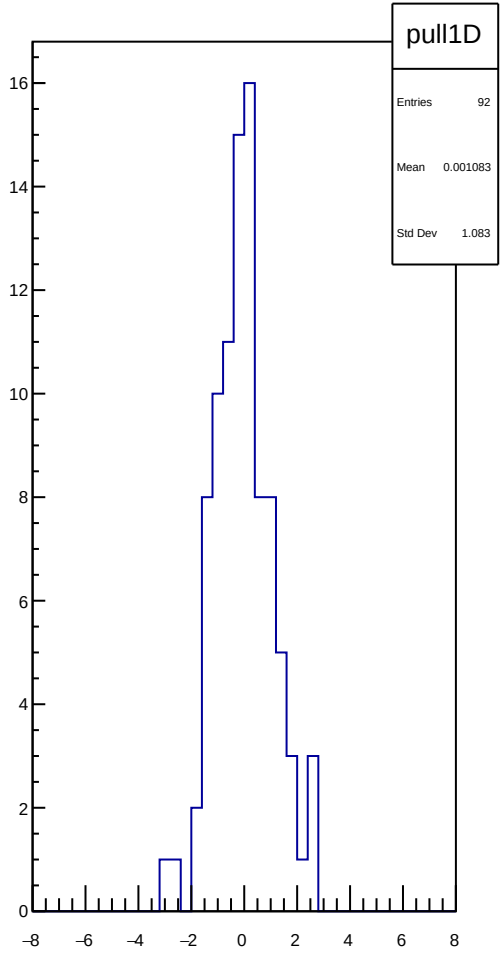

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3181 / 91
p0 5732 ± 4.318
6400
6200
6000
5800
5600
5400
5200

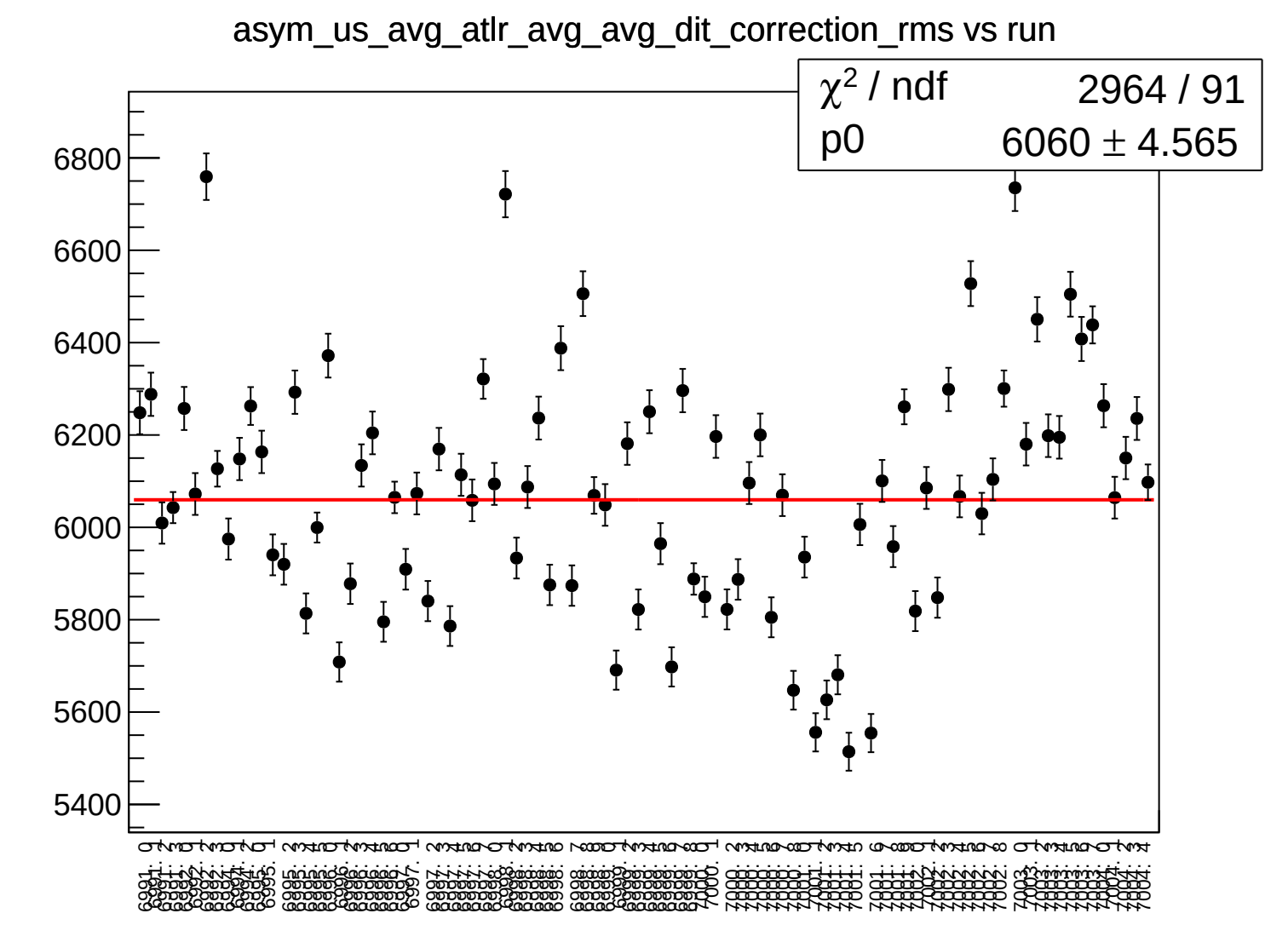

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 70.35 / 91
p0 −6848 ± 2033
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −577.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

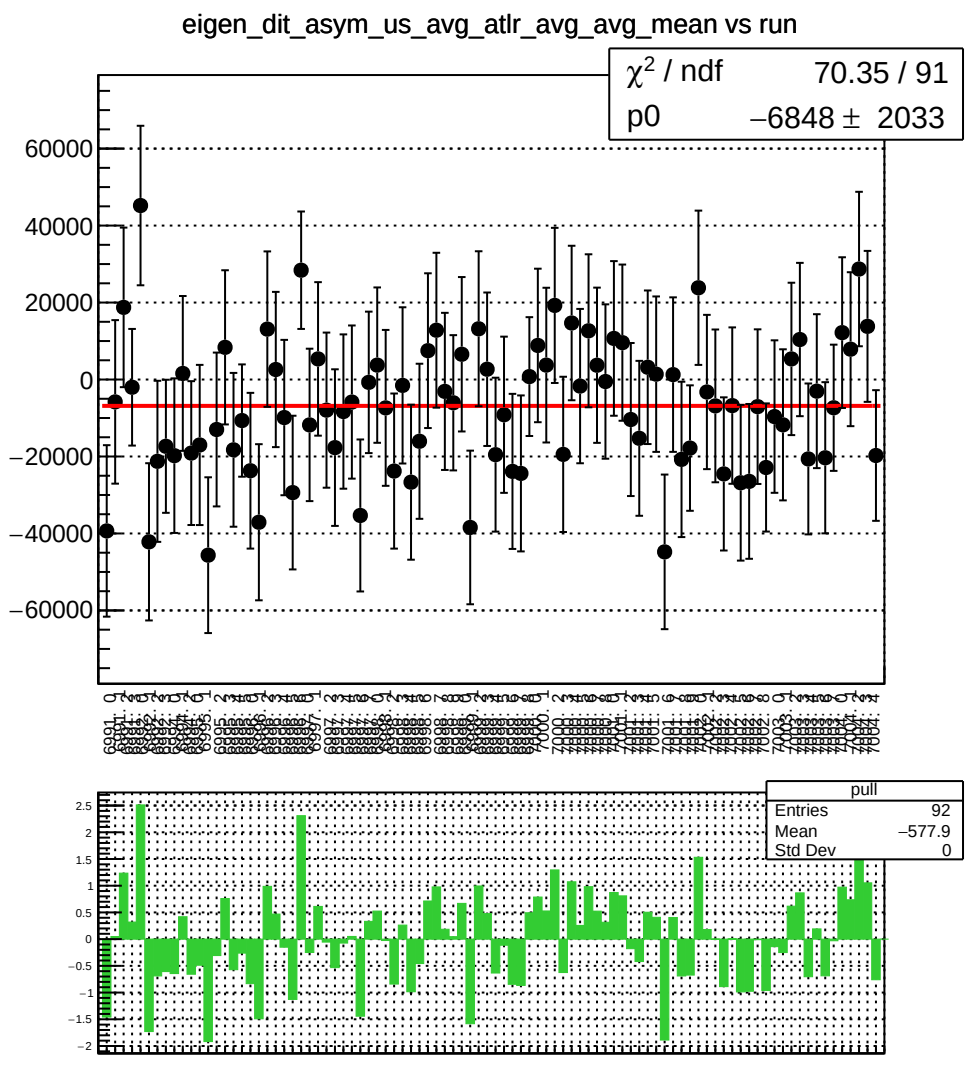

pull1D
Entries 92
Mean −0.004536
Std Dev 0.8744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

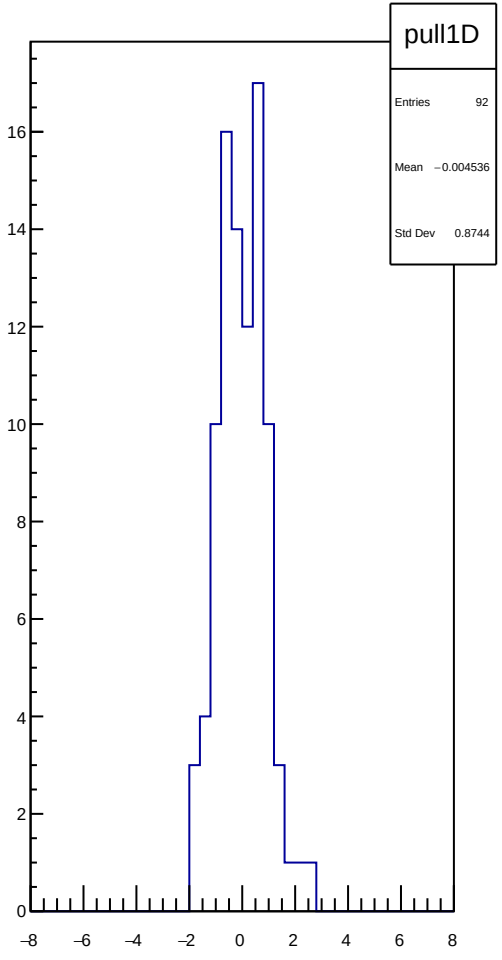

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 533.2 / 91
p0 1909 ± 1.437
2150
2100
2050
2000
1950
1900
1850

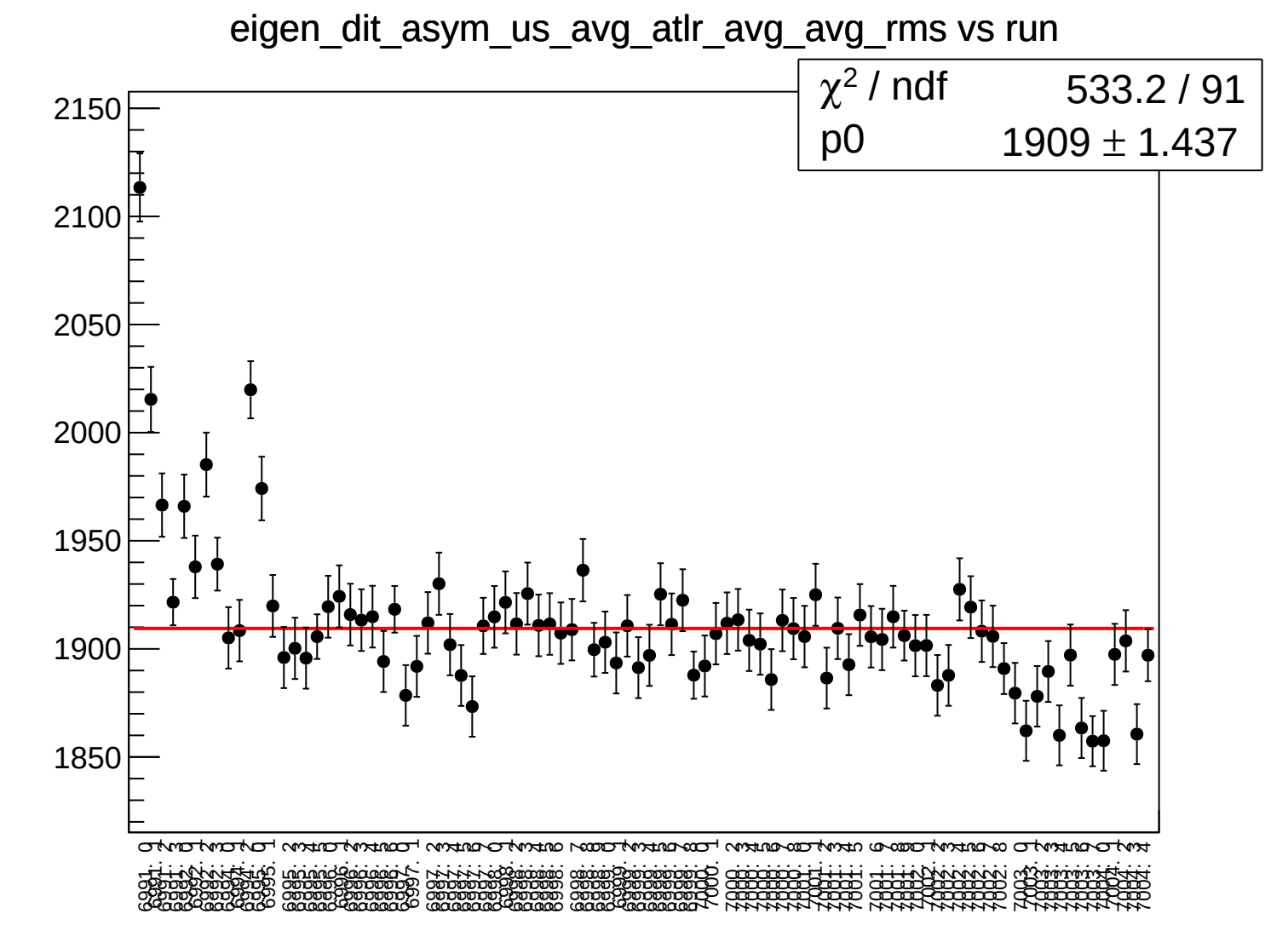

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.8 / 91
p0 −5033 ± 6455
200
100
0
−100
−200
−300
pull
Entries 92
Mean −4687
Std Dev 0
3
2
1
0
−1
−2
−3

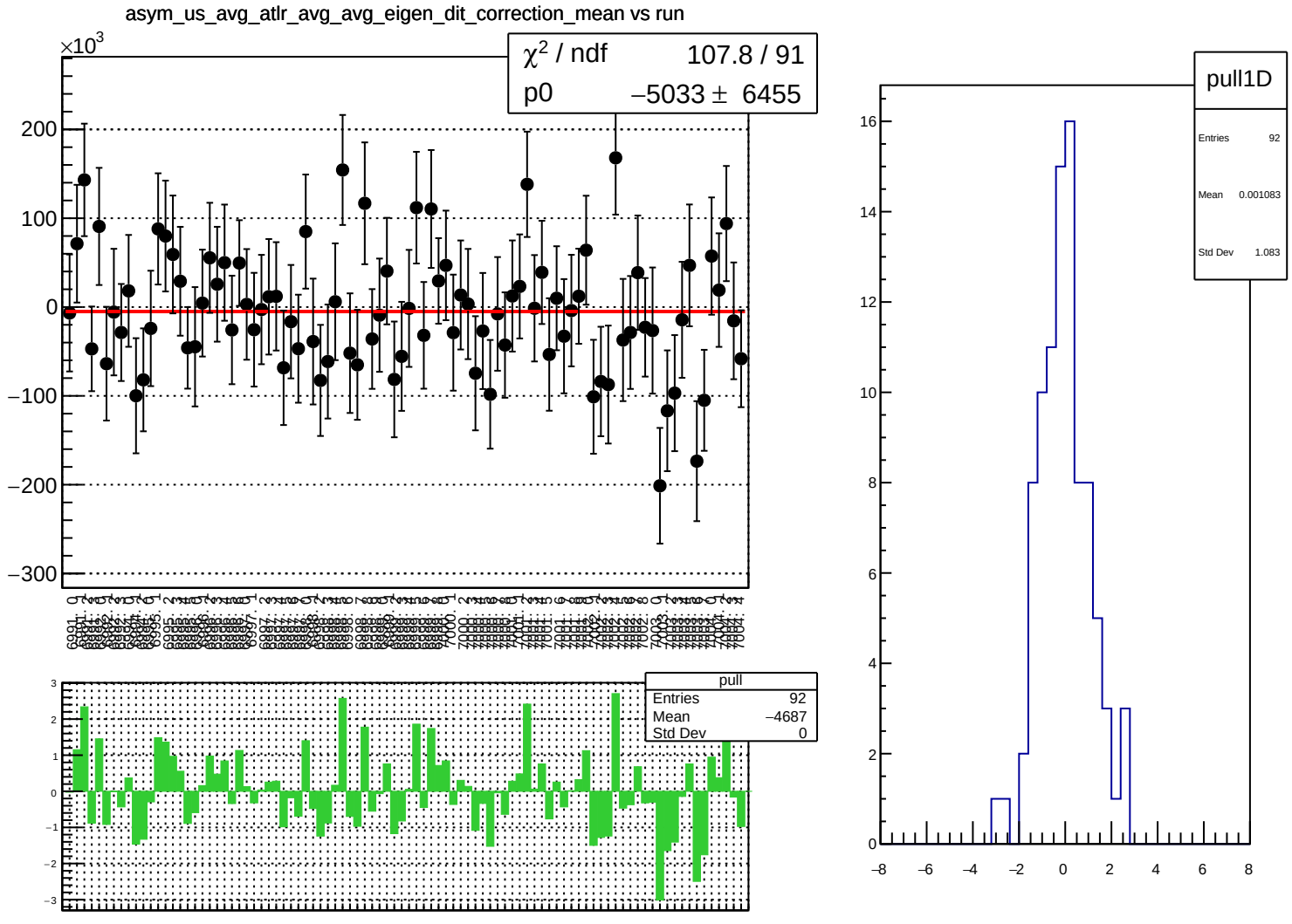

pull1D
Entries 92
Mean 0.001083
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

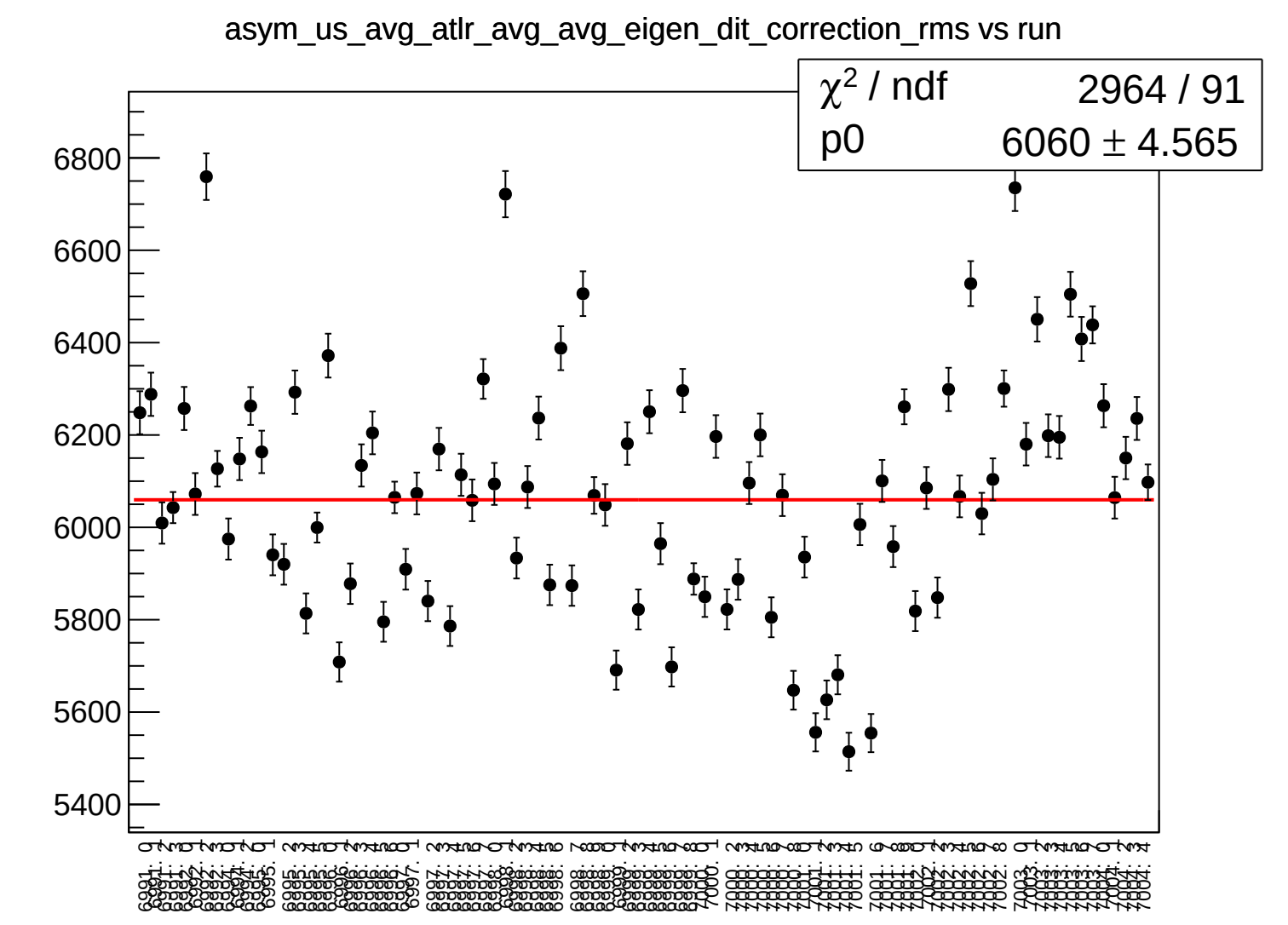

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 2964 / 91
p0 6060 ± 4.565
6800
6600
6400
6200
6000
5800
5600
5400

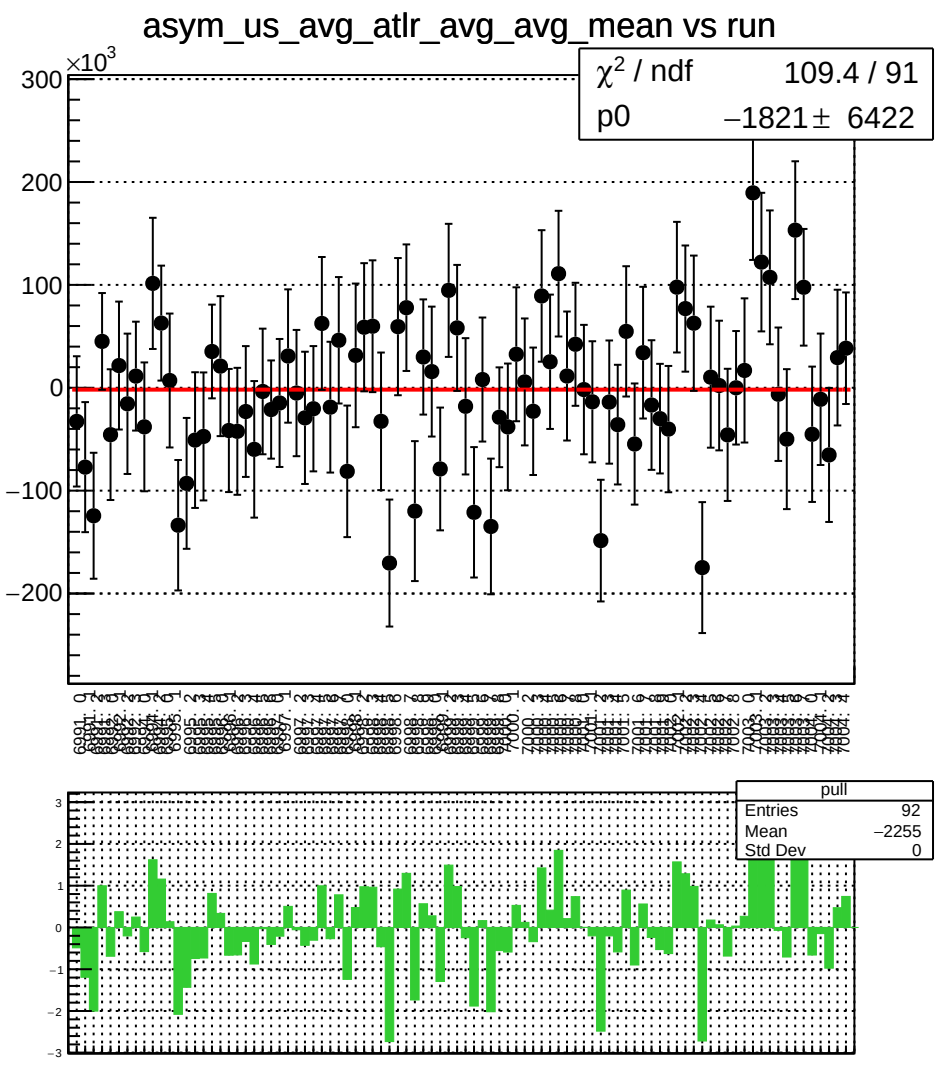

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 70.35 / 91
p0 −6848 ± 2033
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −577.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

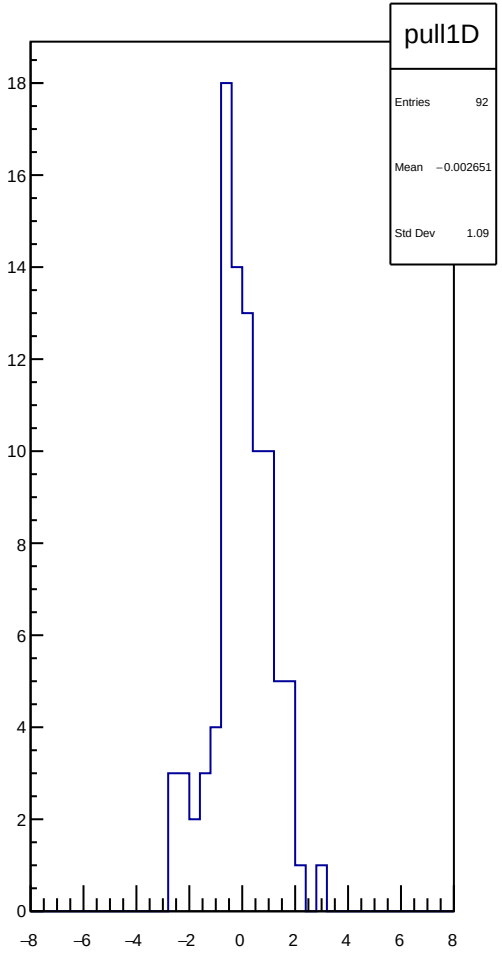

pull1D
Entries 92
Mean −0.004536
Std Dev 0.8744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

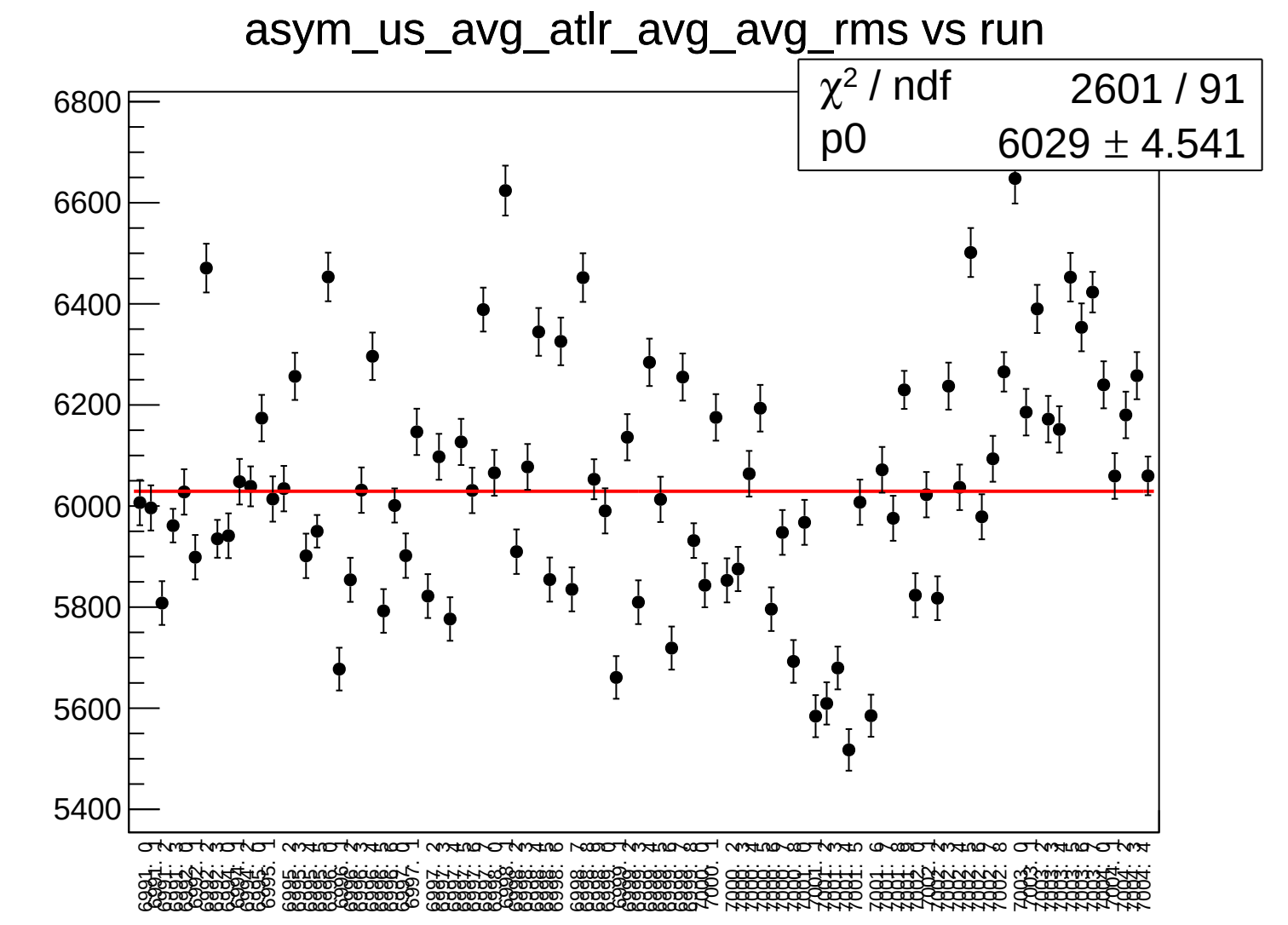

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 533.2 / 91
p0 1909 ± 1.437
2150
2100
2050
2000
1950
1900
1850

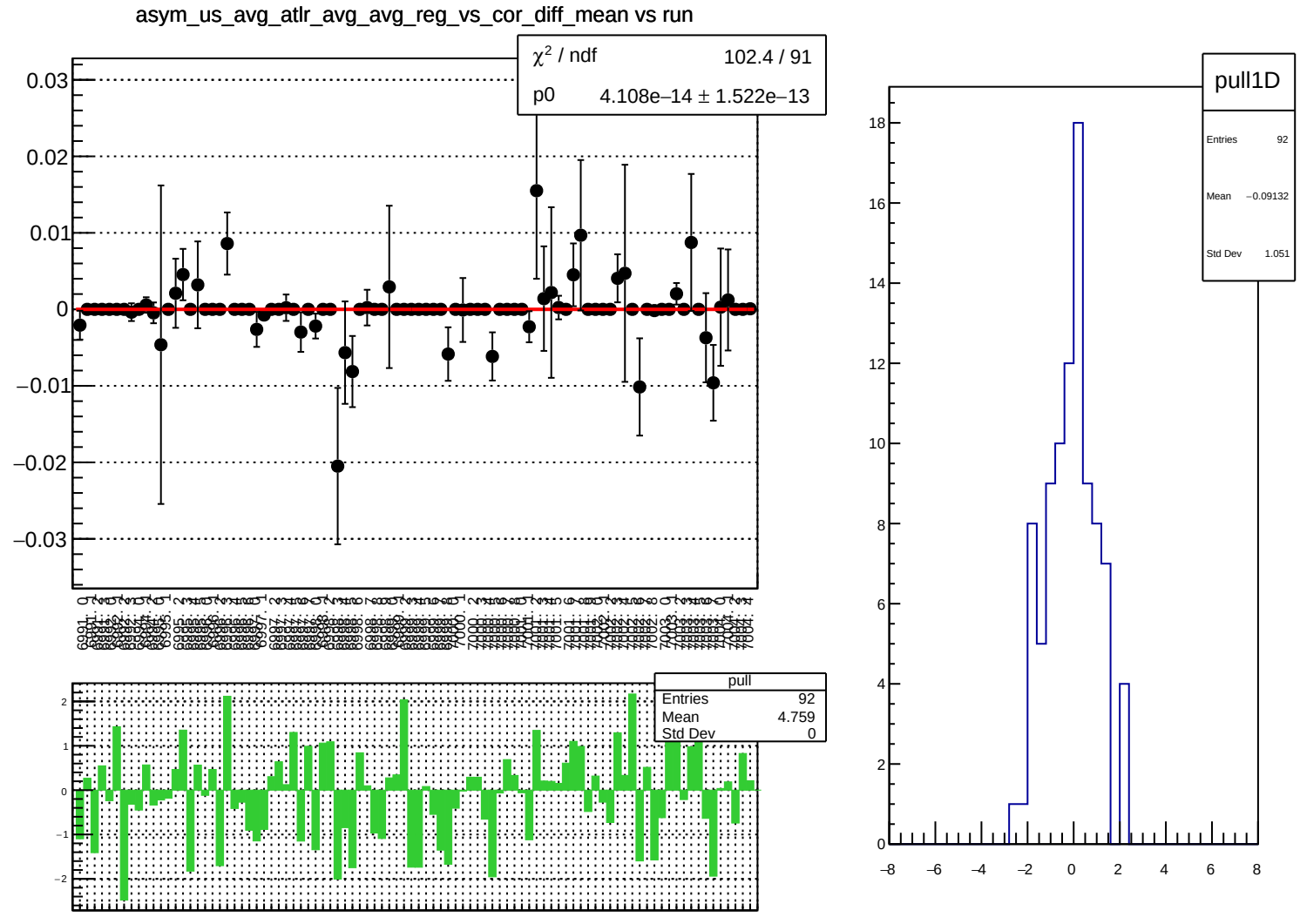

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.8 / 91
p0 −5033 ± 6455
200
100
0
−100
−200
−300
pull
Entries 92
Mean −4687
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.001083
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

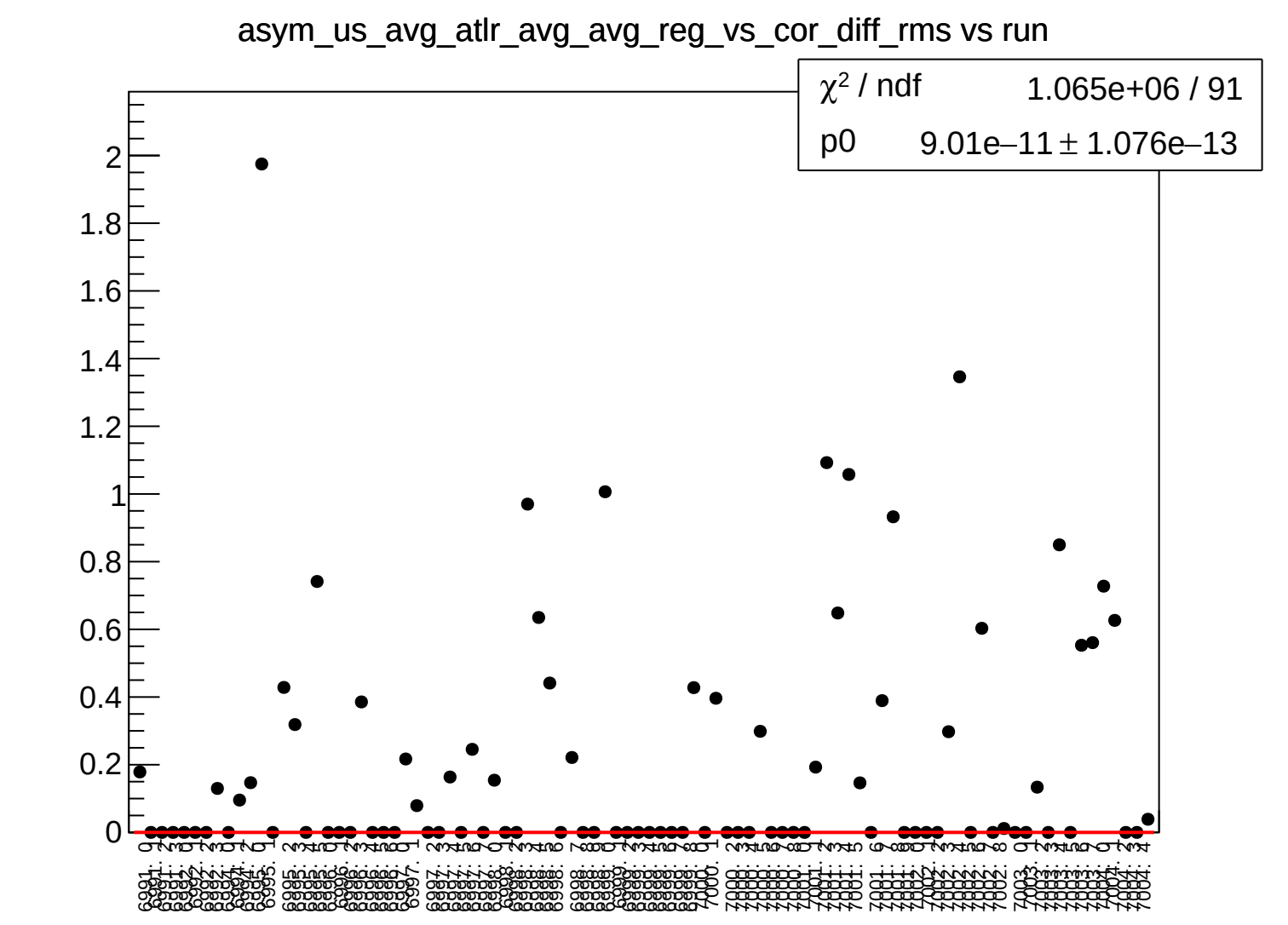

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2964 / 91
p0 6060 ± 4.565
6800
6600
6400
6200
6000
5800
5600
5400

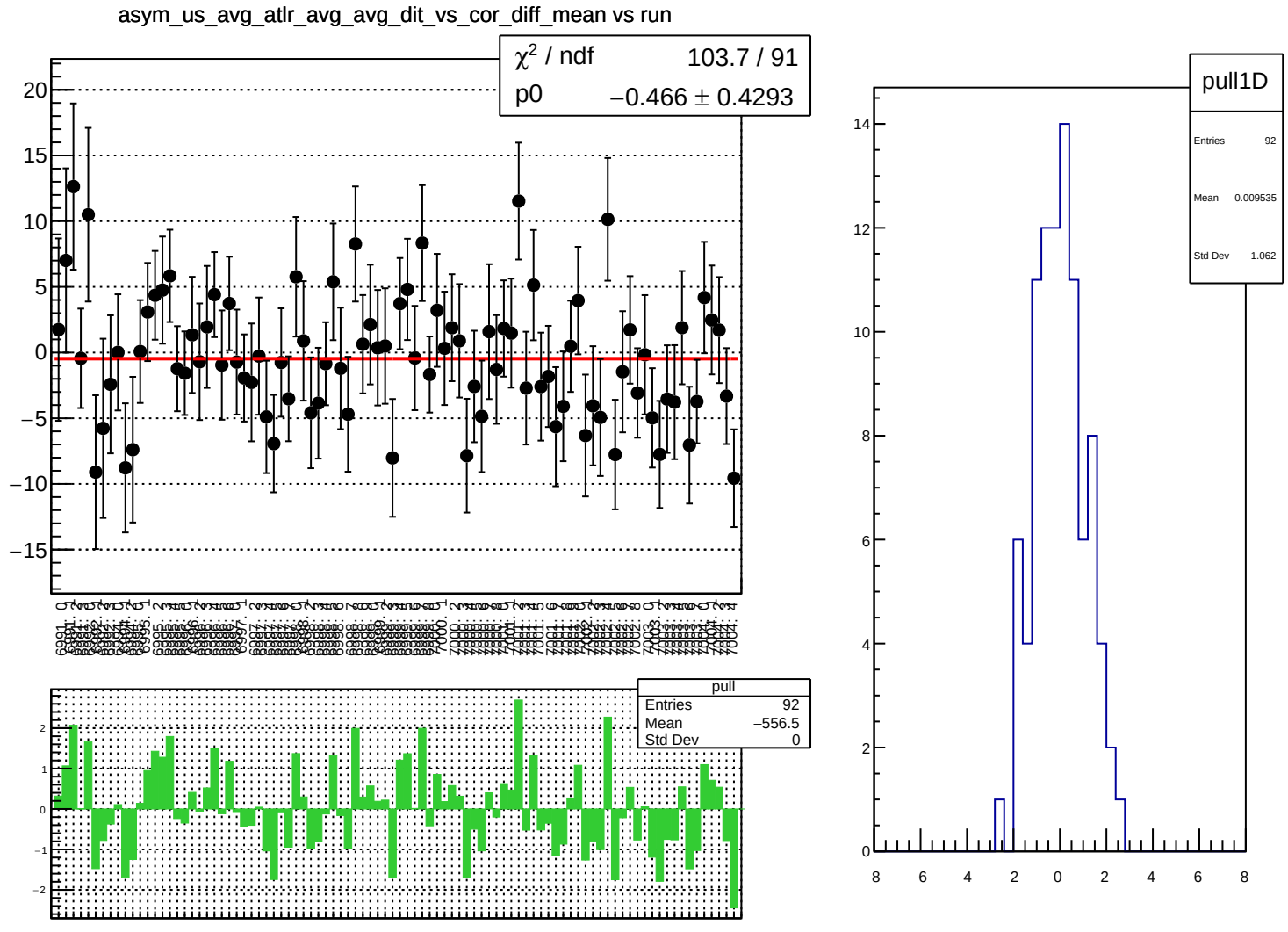

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 109.4 / 91
p0 −1821 ± 6422
pull
Entries 92
Mean −2255
Std Dev 0

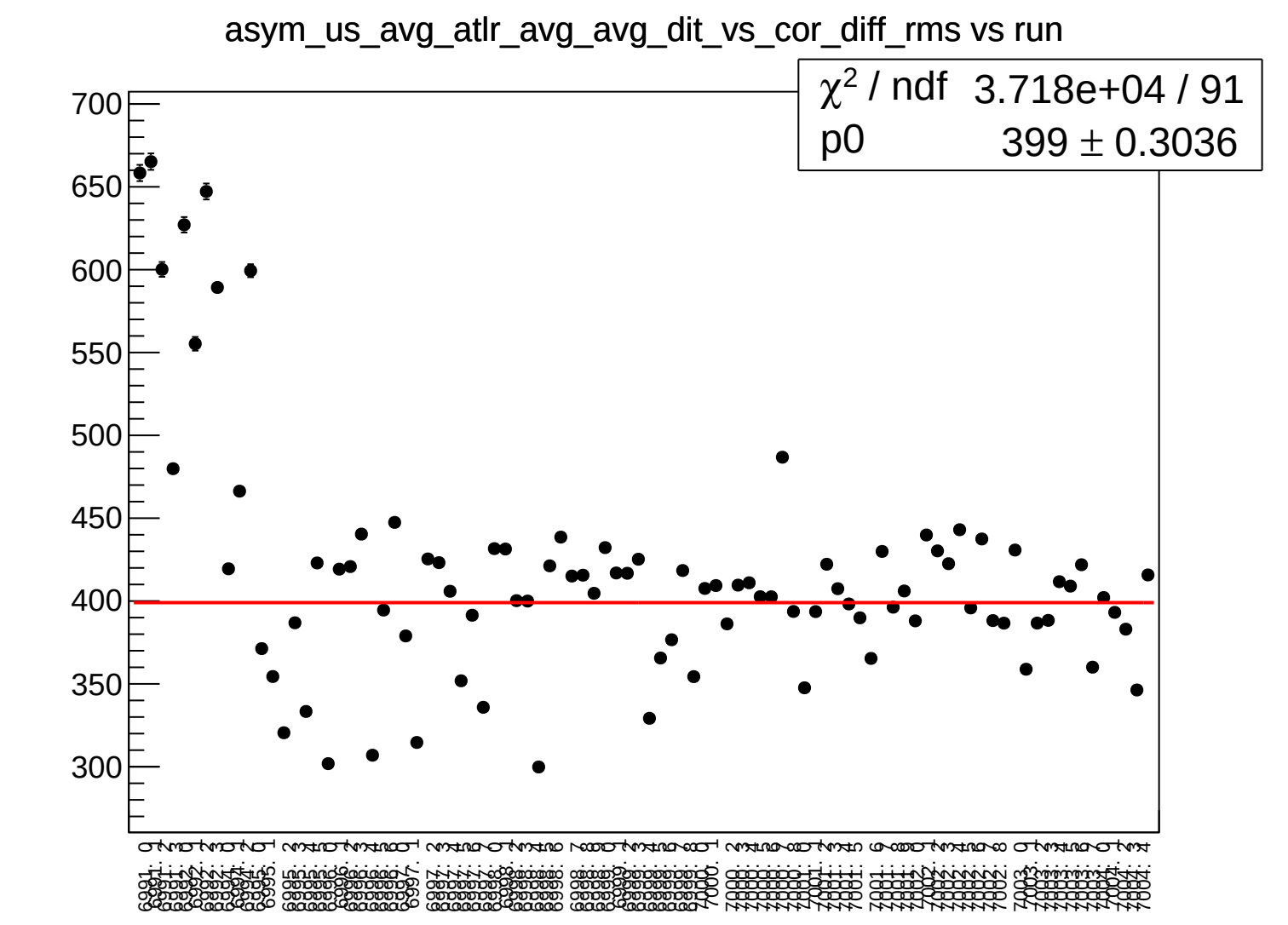

pull1D
Entries 92
Mean −0.002651
Std Dev 1.09

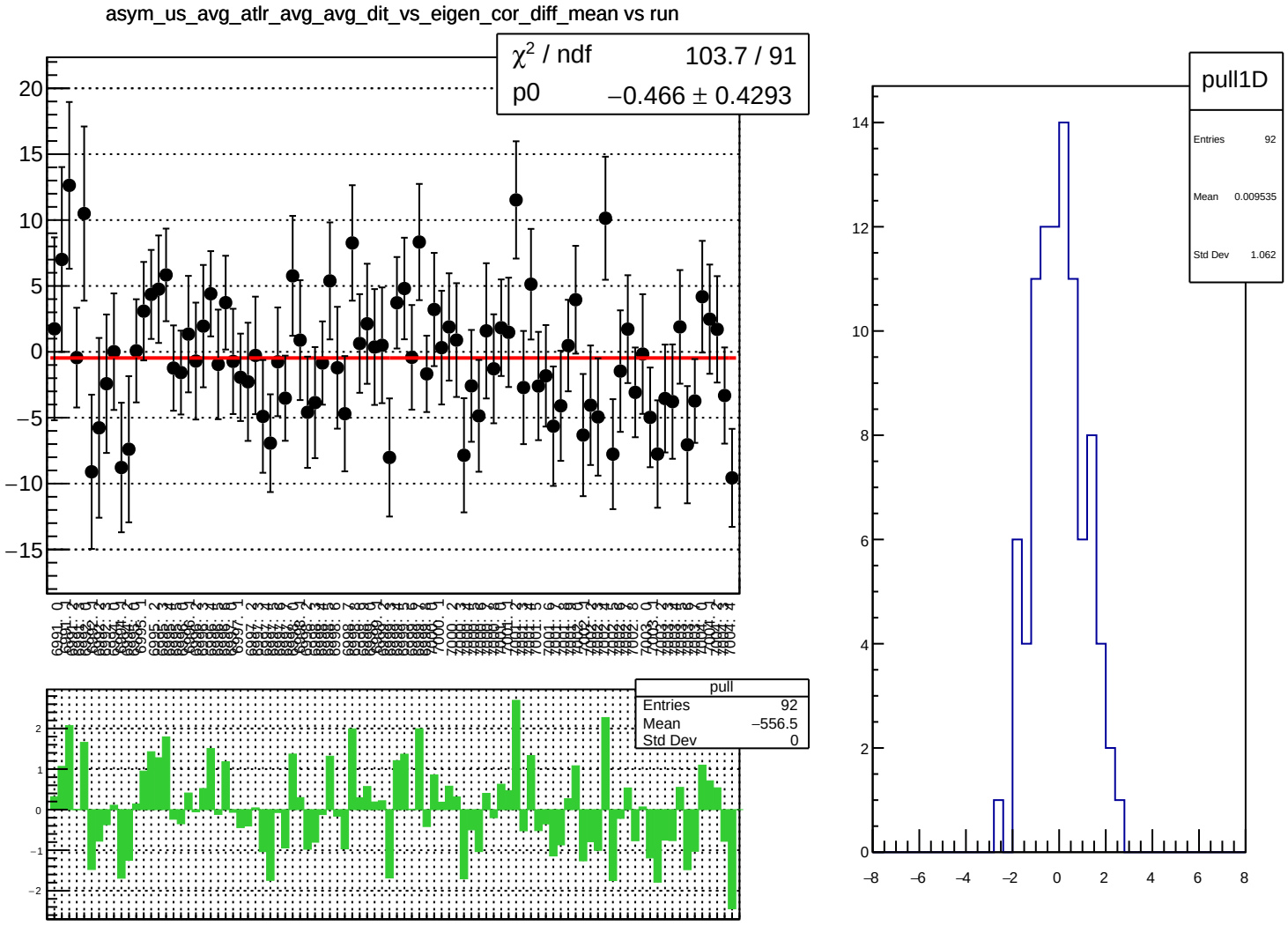

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 2601 / 91
p0 6029 ± 4.541
6800
6600
6400
6200
6000
5800
5600
5400

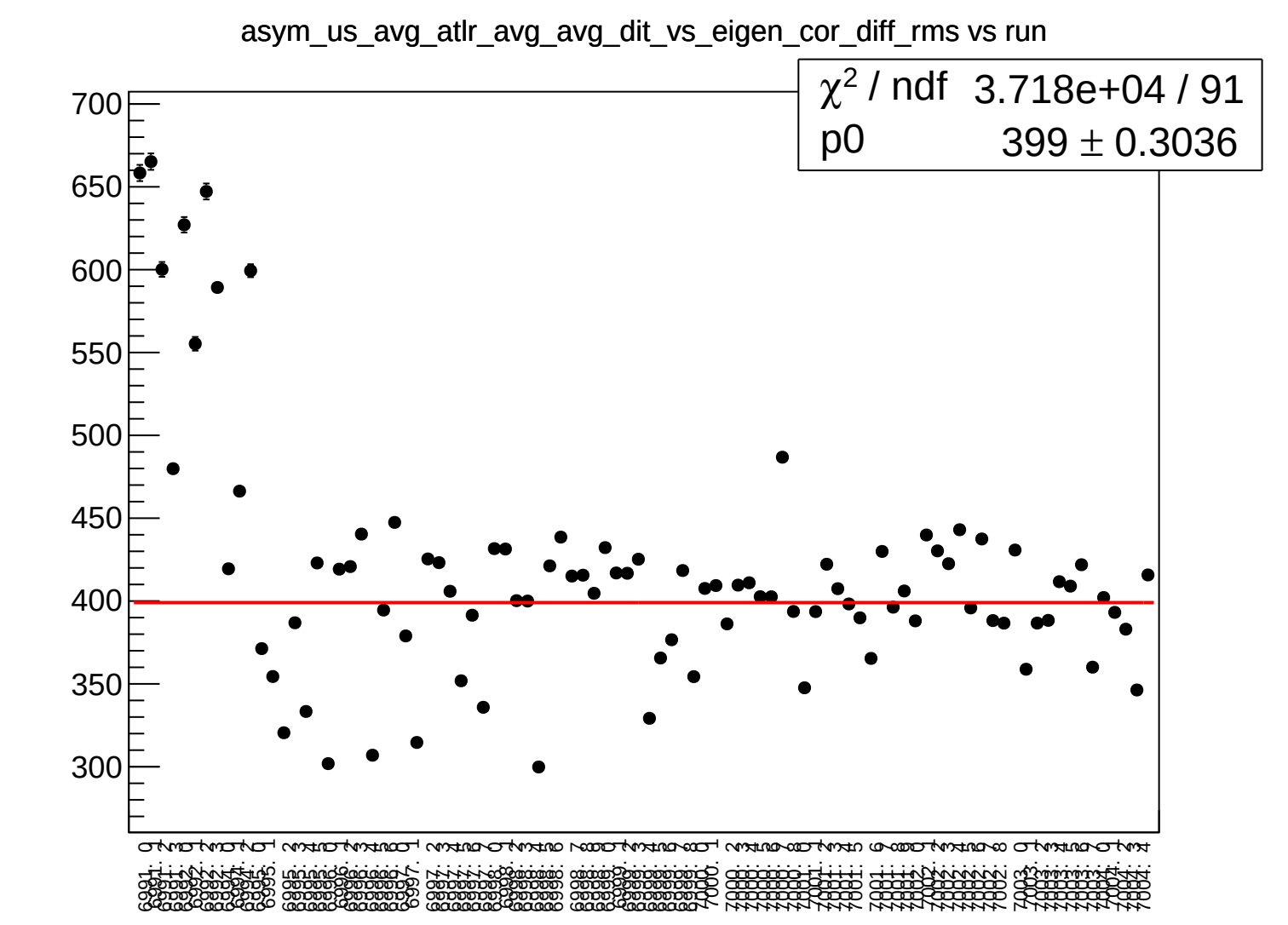

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 91
p0 4.108e−14 ± 1.522e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 4.759
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.09132
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

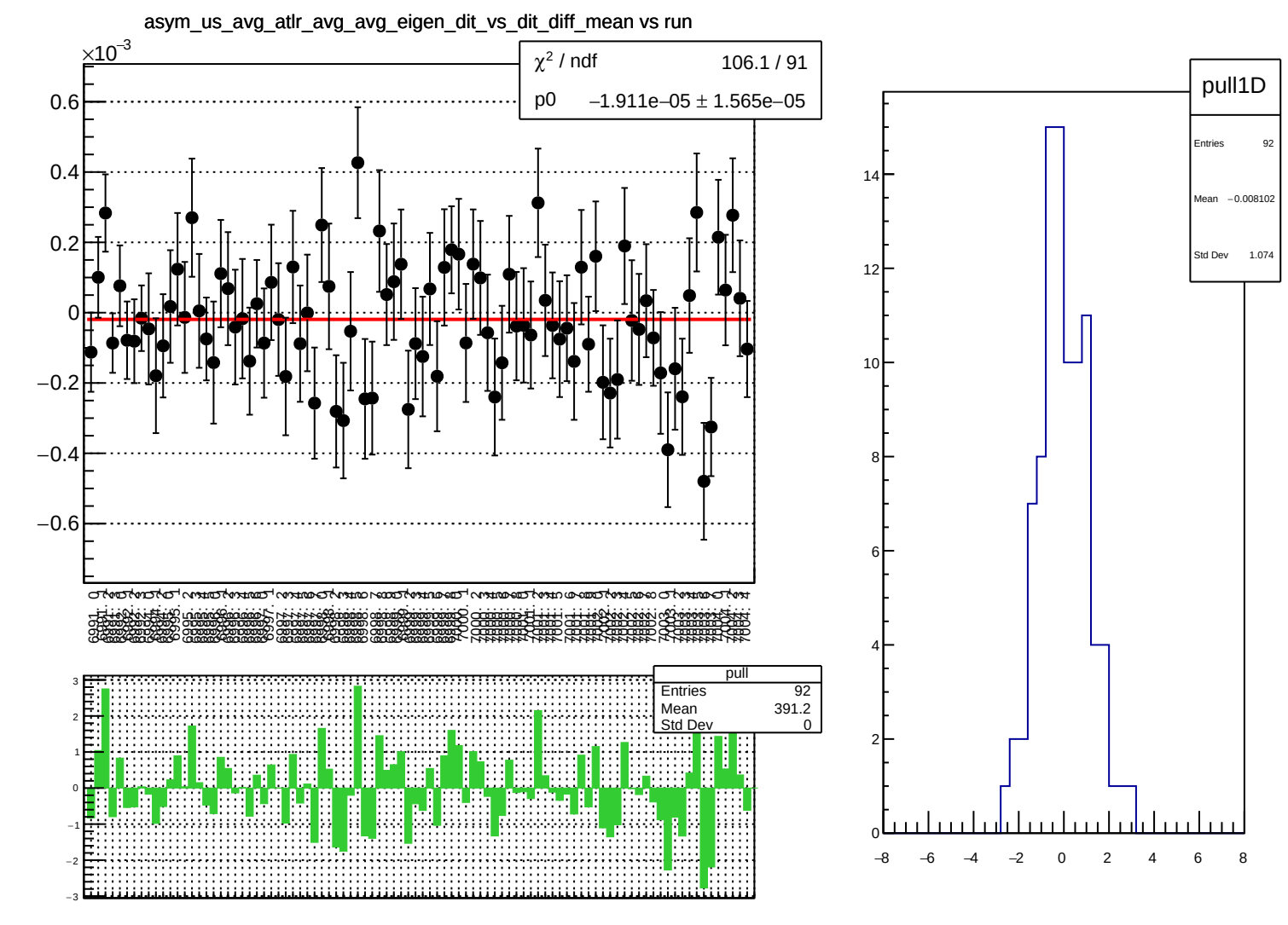

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 91
p0 9.01e−11 ± 1.076e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

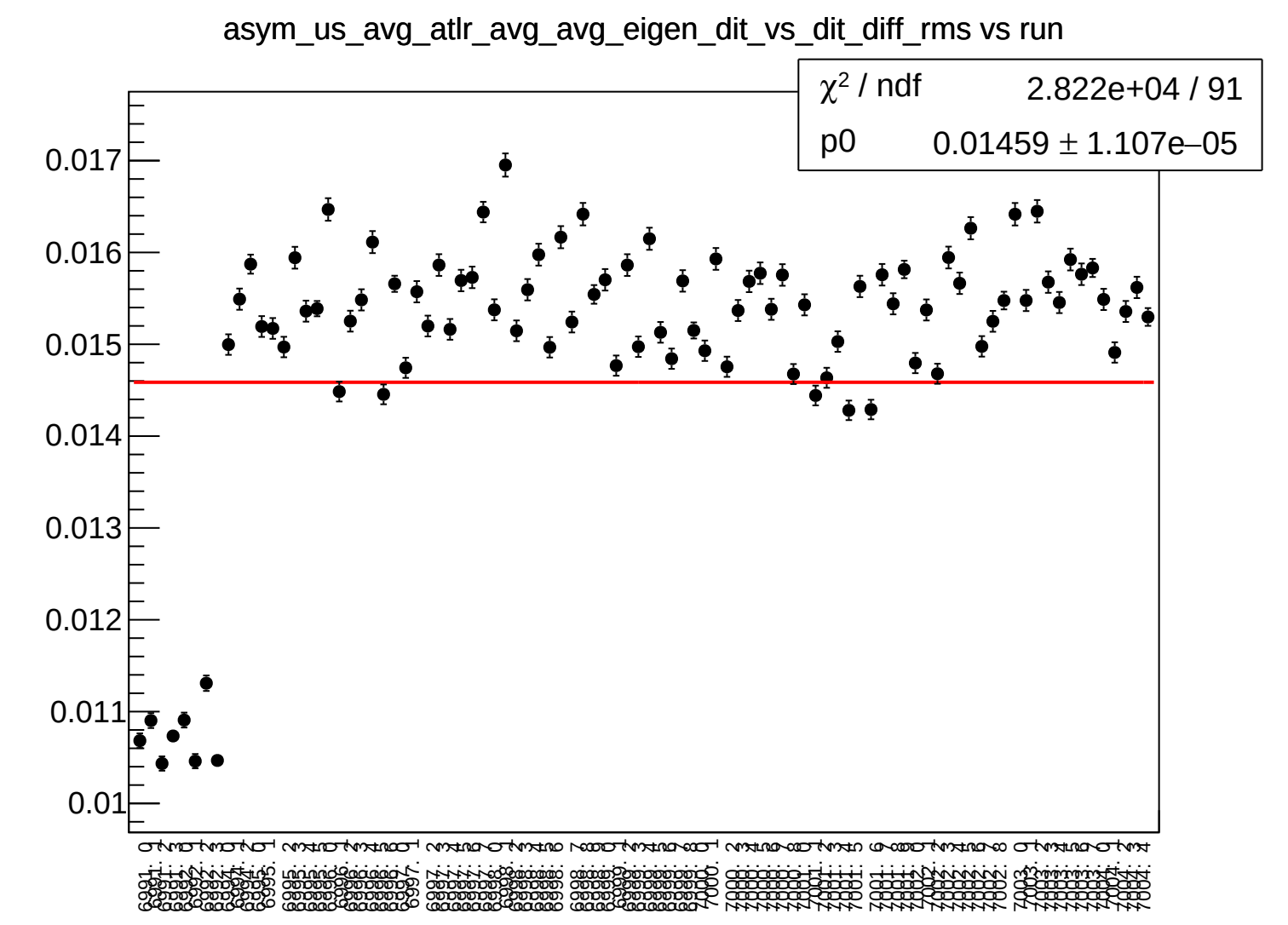

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 91
p0 −0.466 ± 0.4293
pull
Entries 92
Mean −556.5
Std Dev 0
pull1D
Entries 92
Mean 0.009535
Std Dev 1.062

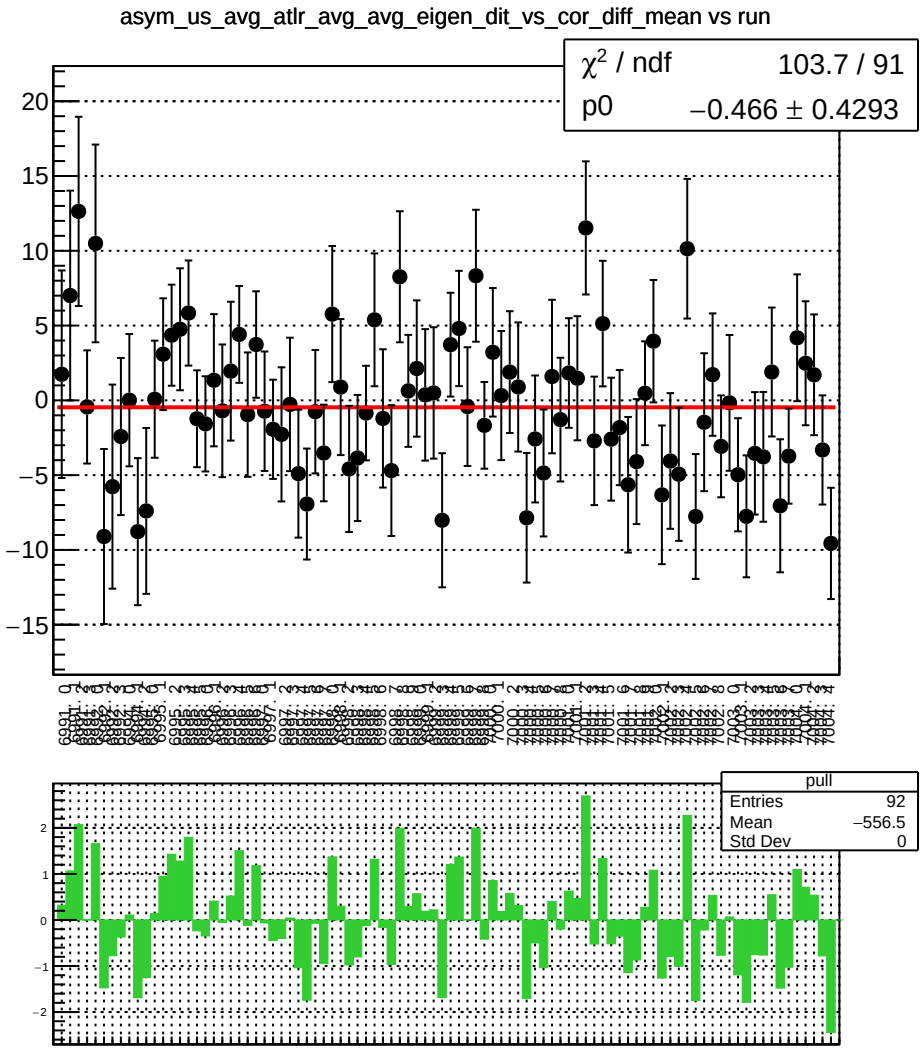

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.718e+04 / 91
p0 399 ± 0.3036
700
650
600
550
500
450
400
350
300

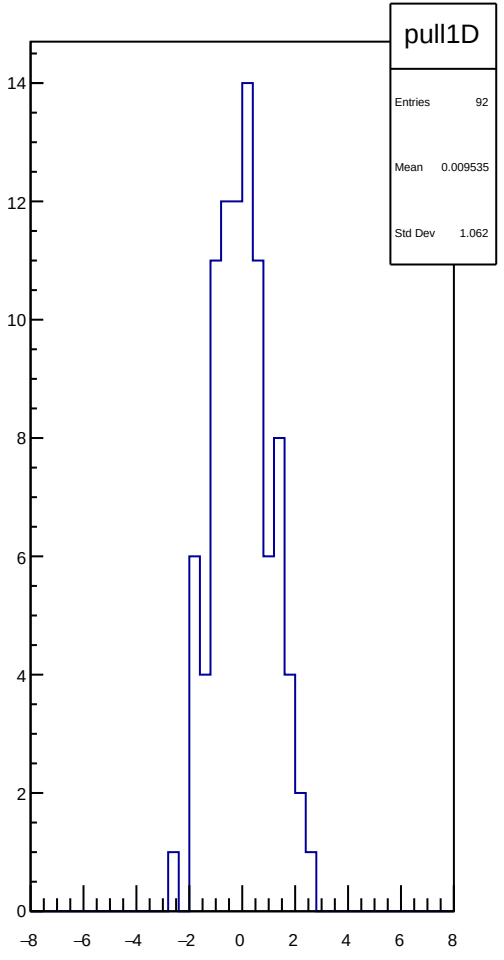

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 91
p0 −0.466 ± 0.4293
pull
Entries 92
Mean −556.5
Std Dev 0
pull1D
Entries 92
Mean 0.009535
Std Dev 1.062

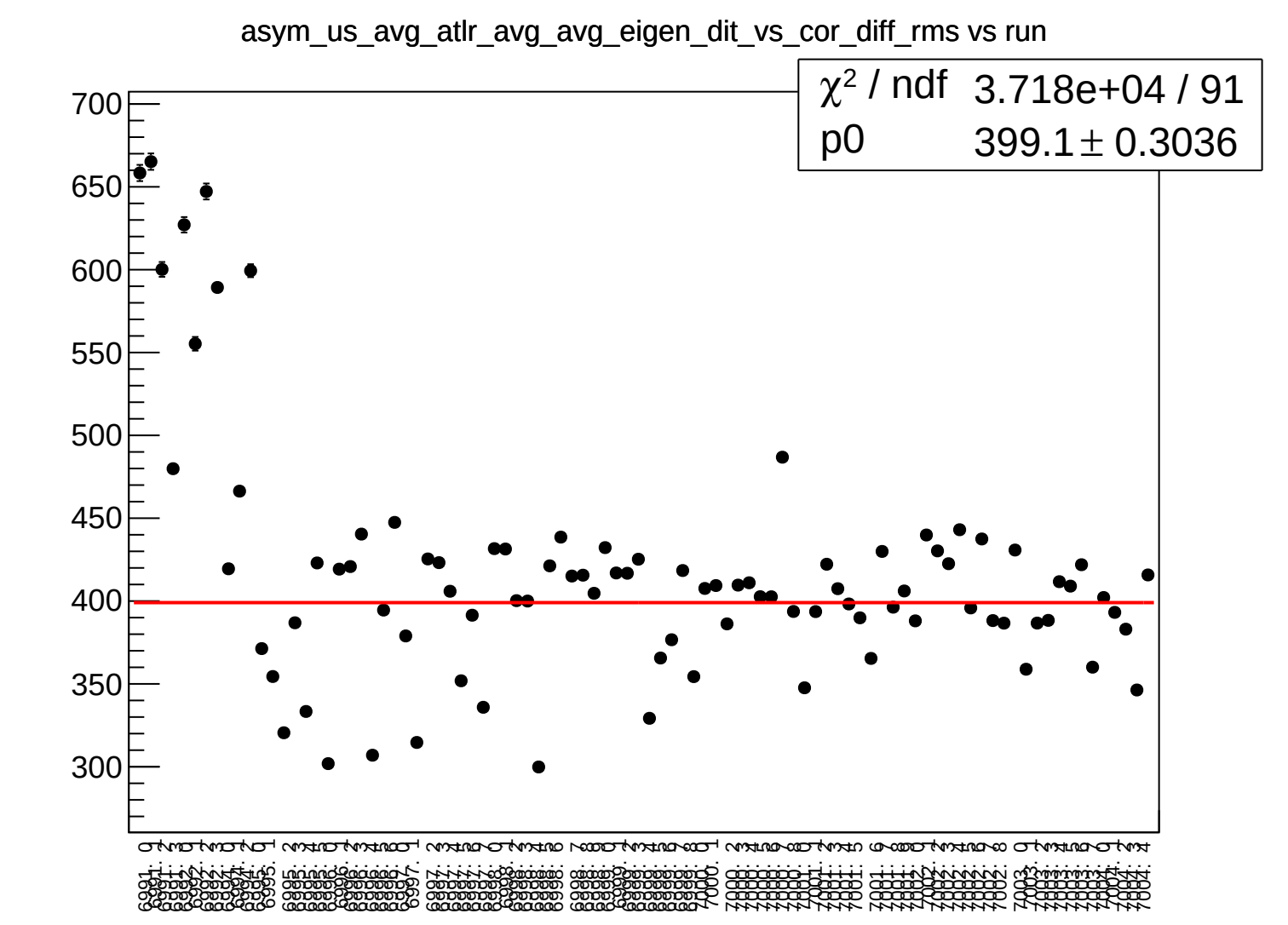

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.718e+04 / 91
p0 399 ± 0.3036
700
650
600
550
500
450
400
350
300

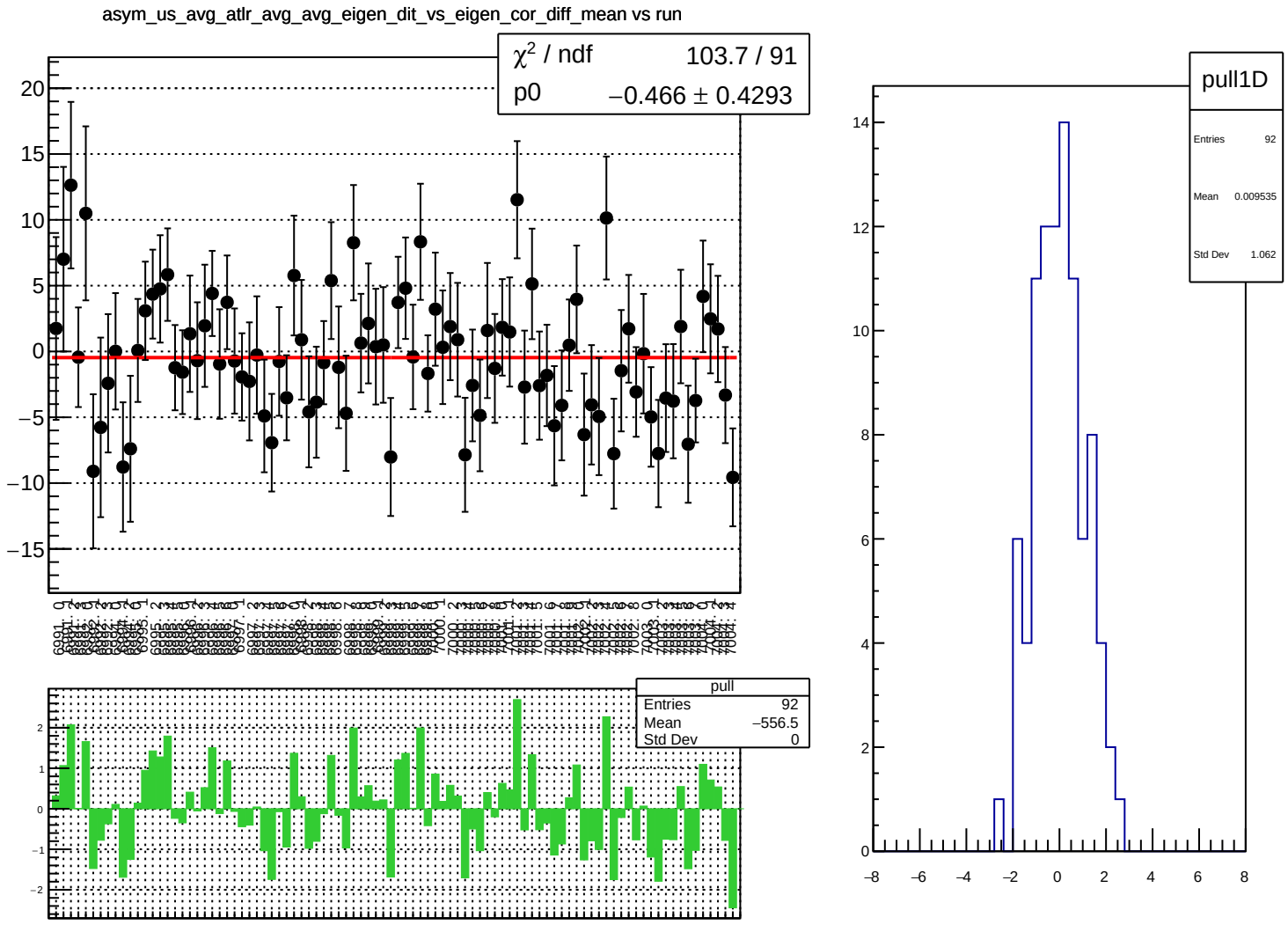

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.1 / 91
p0 −1.911e−05 ± 1.565e−05
pull
Entries 92
Mean 391.2
Std Dev 0
pull1D
Entries 92
Mean −0.008102
Std Dev 1.074

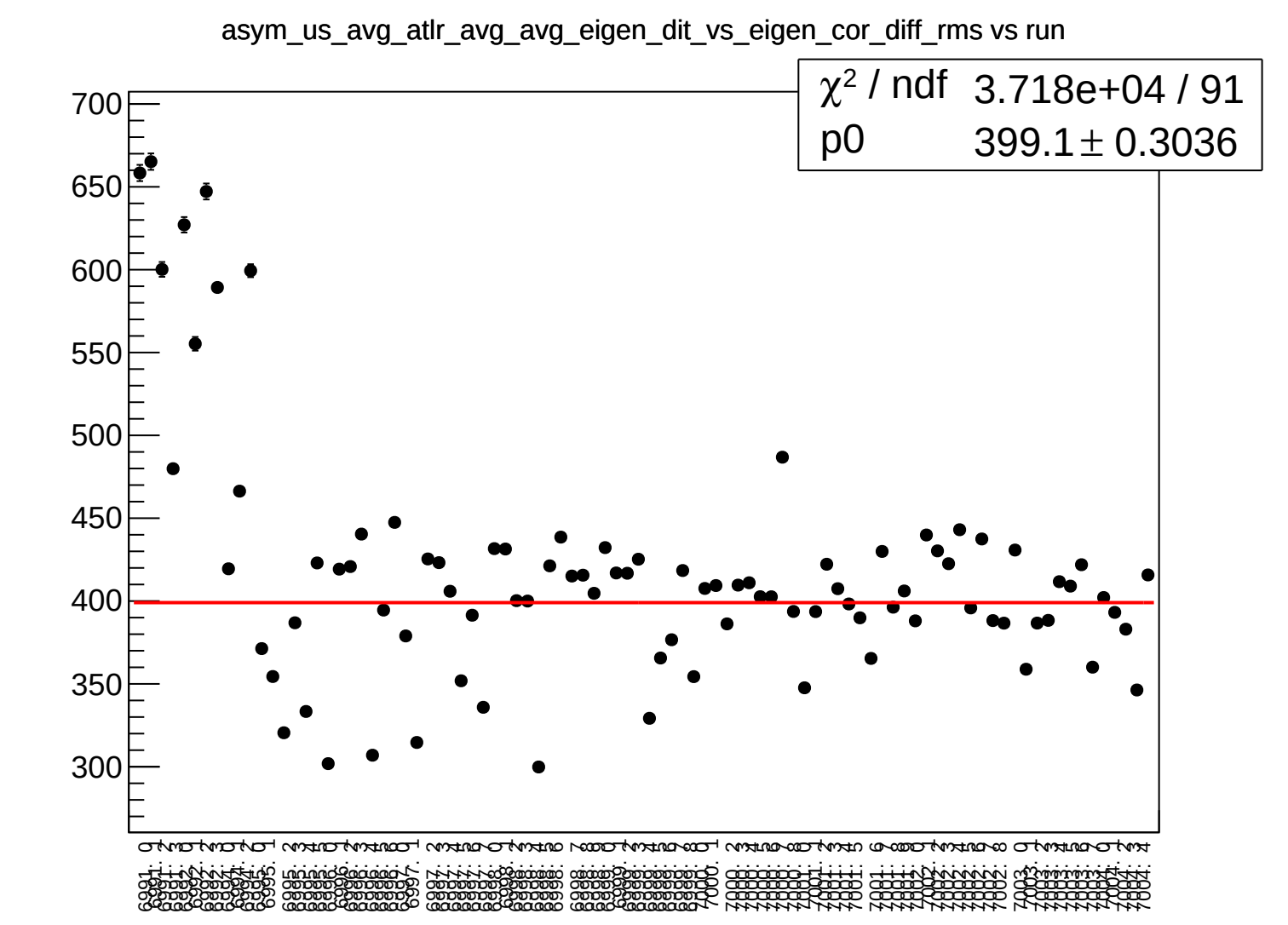

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.822e+04 / 91
p0 0.01459 ± 1.107e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

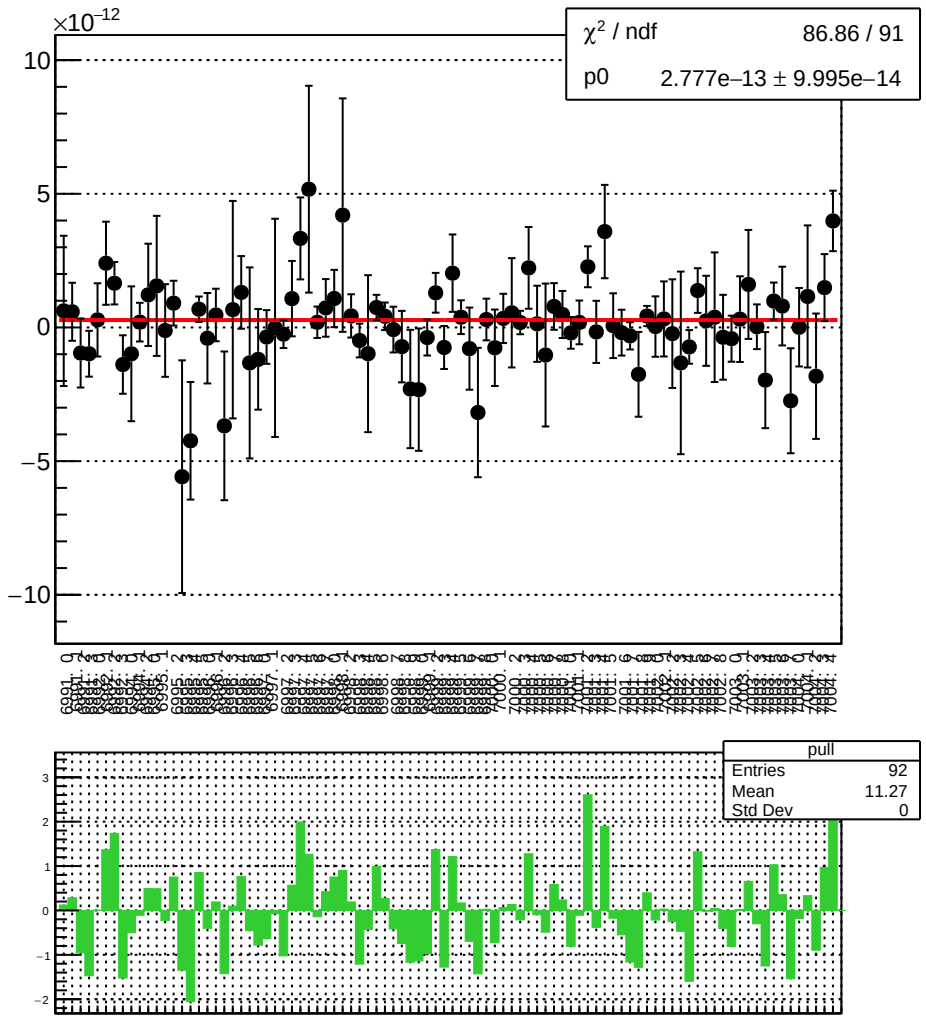

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 103.7 / 91
p0 −0.466 ± 0.4293
pull
Entries 92
Mean −556.5
Std Dev 0

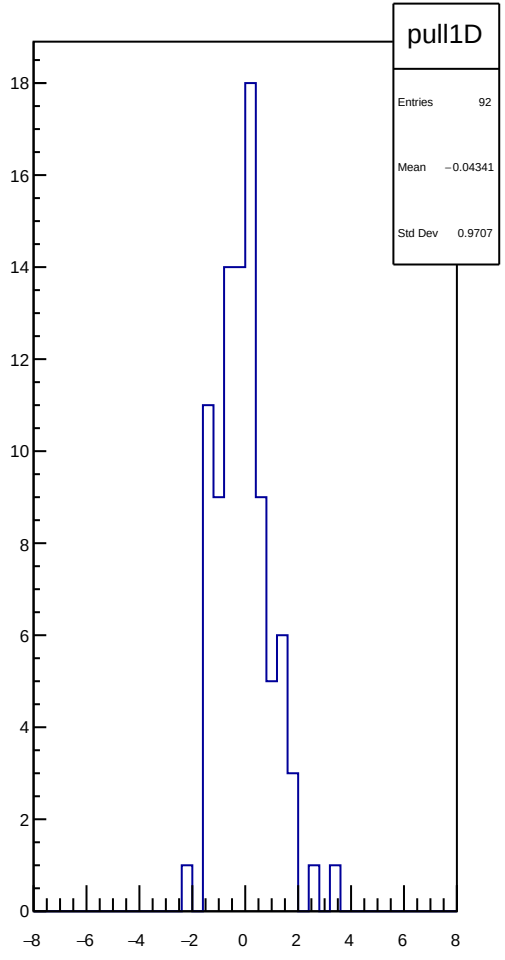

pull1D
Entries 92
Mean 0.009535
Std Dev 1.062

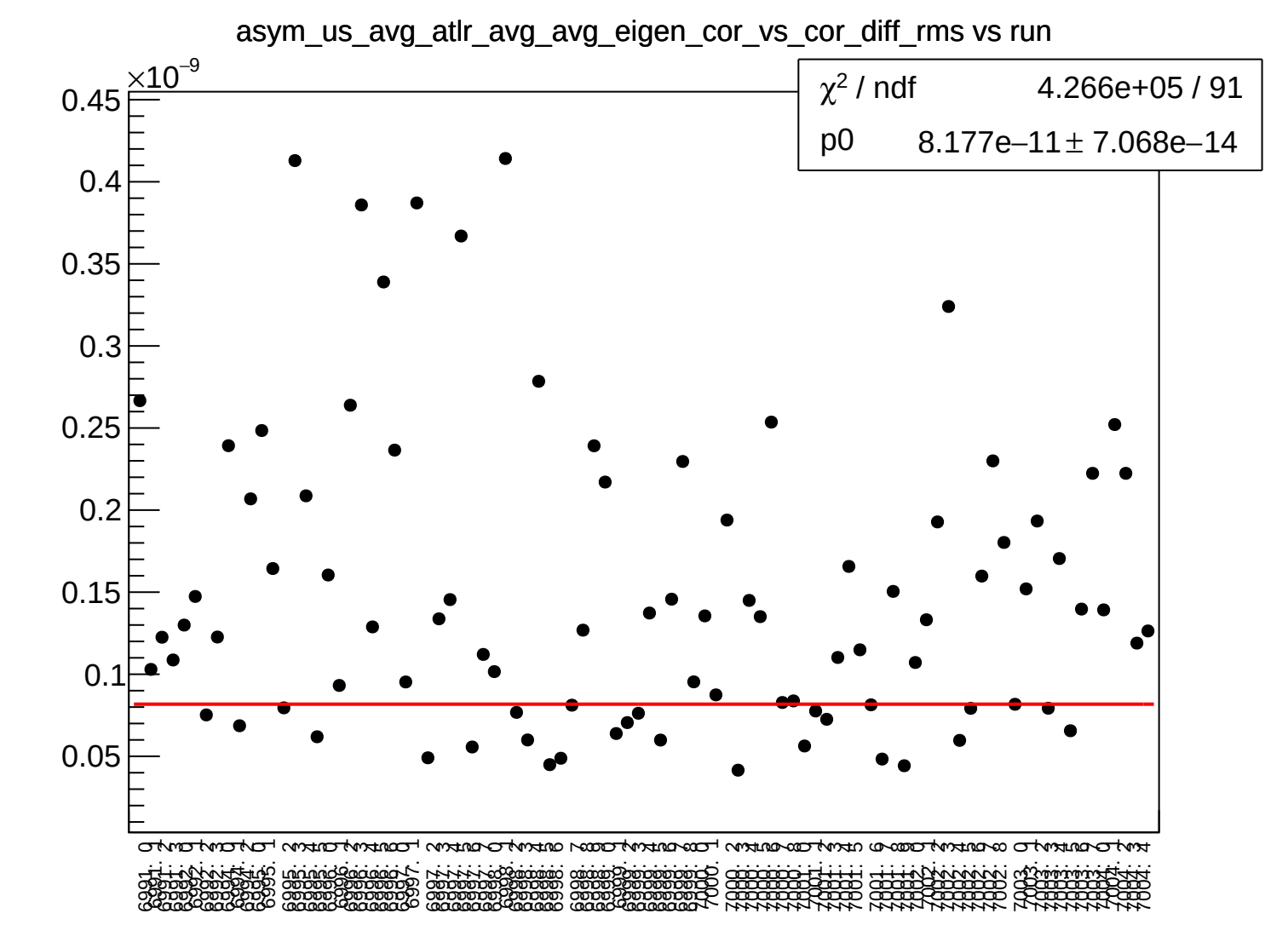

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.718e+04 / 91
p0 399.1 ± 0.3036
700
650
600
550
500
450
400
350
300

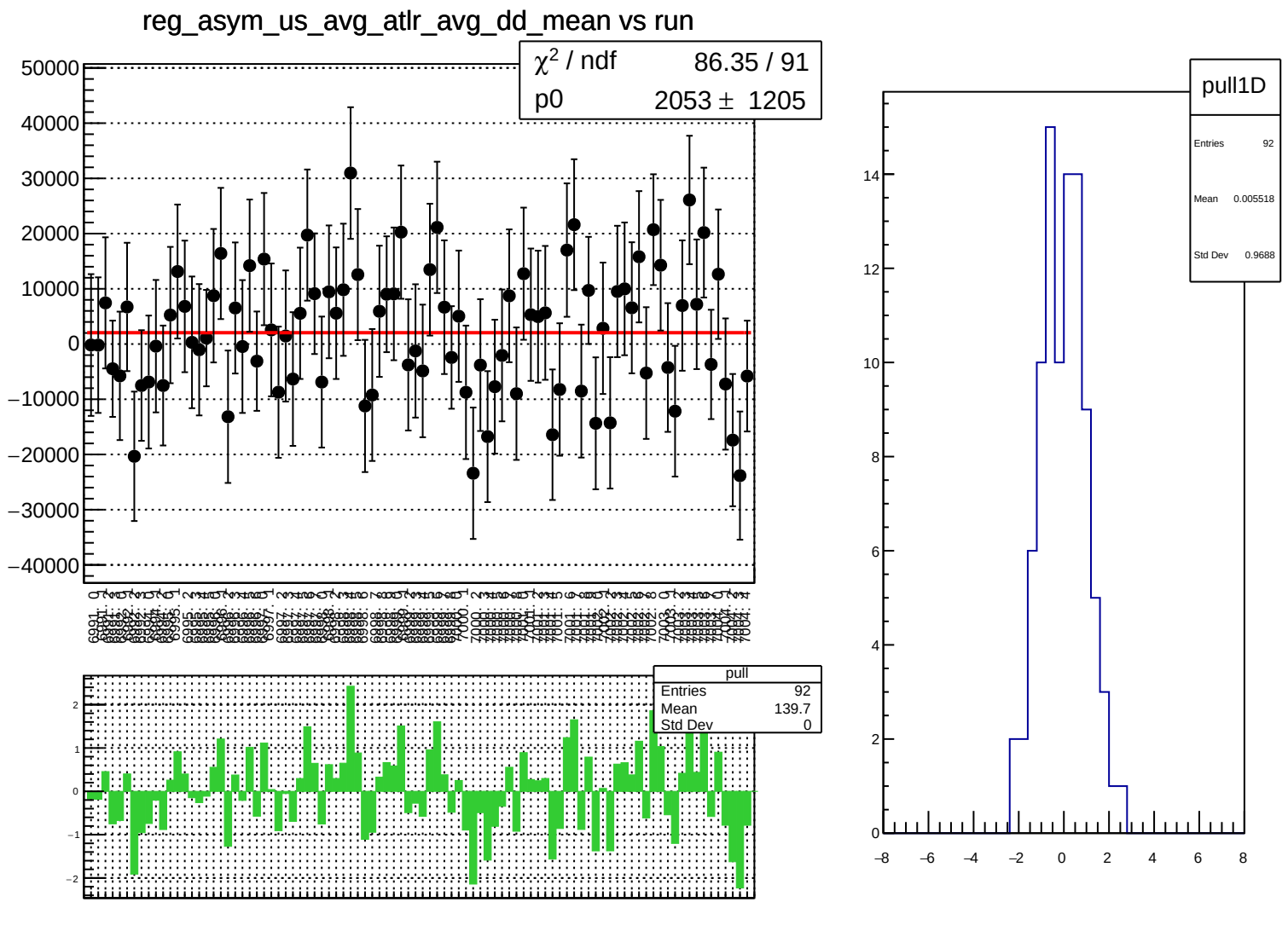

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 91
p0 −0.466 ± 0.4293
pull
Entries 92
Mean −556.5
Std Dev 0
pull1D
Entries 92
Mean 0.009535
Std Dev 1.062

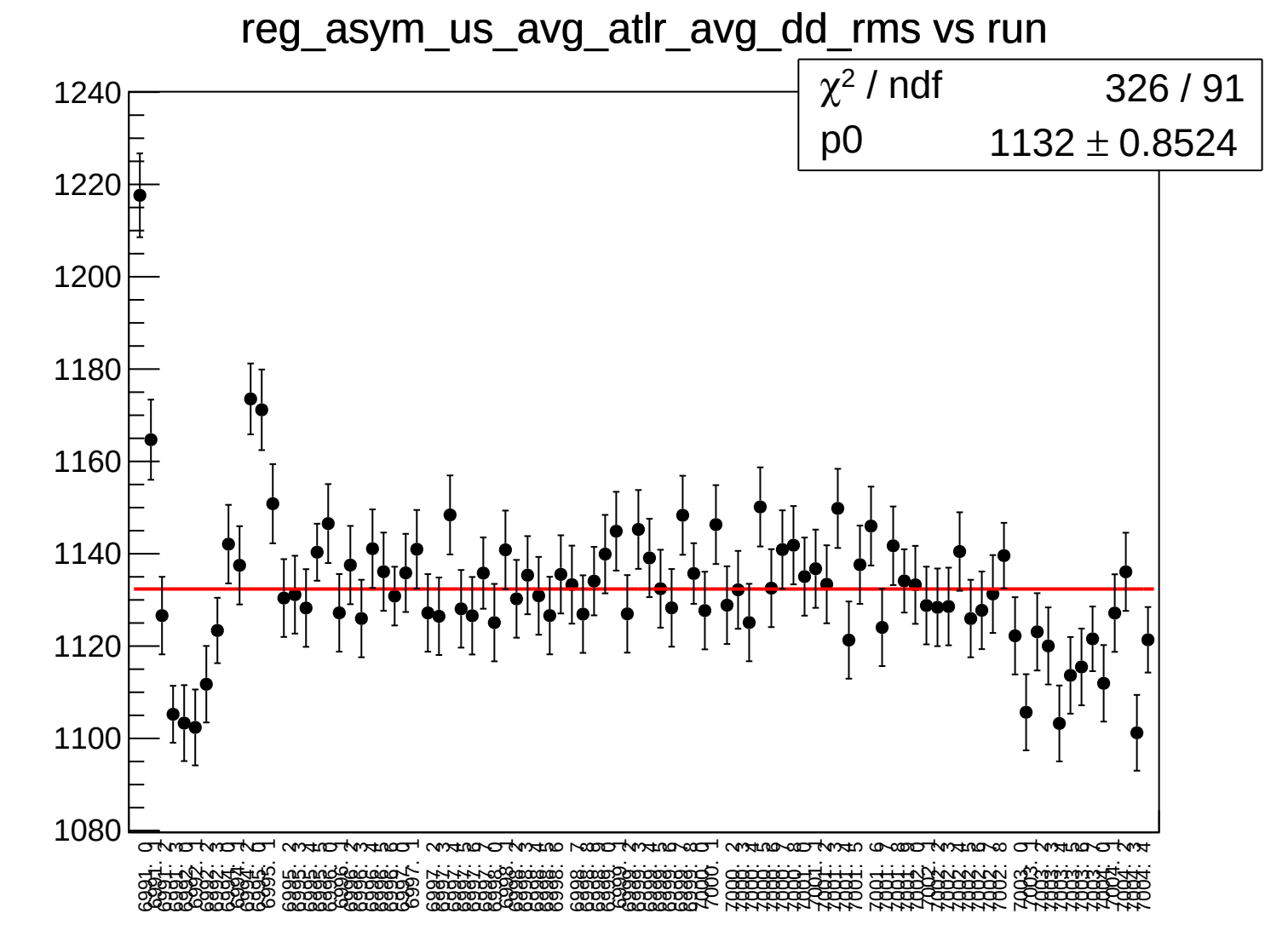

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.718e+04 / 91
p0 399.1 ± 0.3036
700
650
600
550
500
450
400
350
300

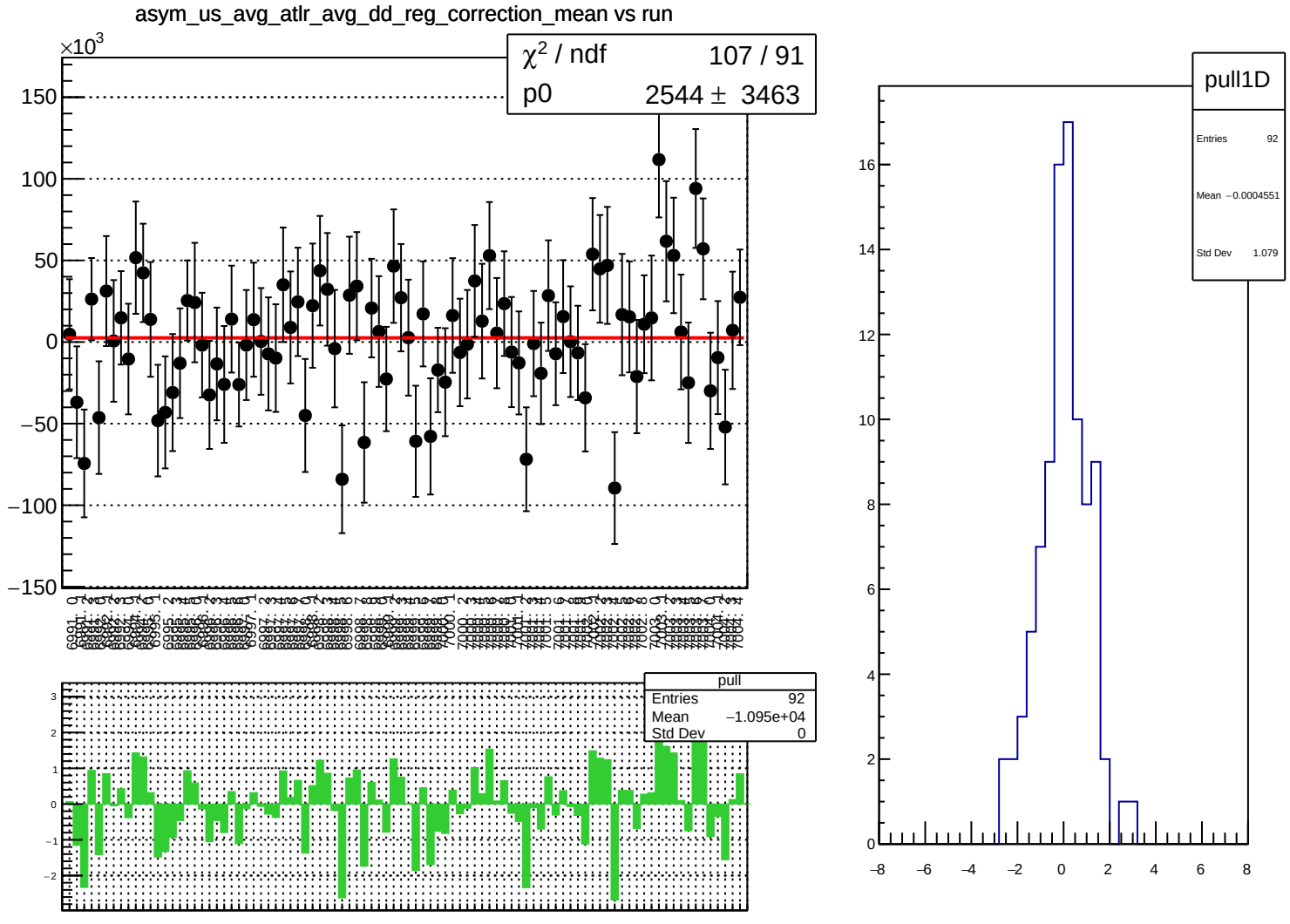

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.86 / 91
p0 2.777e−13 ± 9.995e−14
pull
Entries 92
Mean 11.27
Std Dev 0

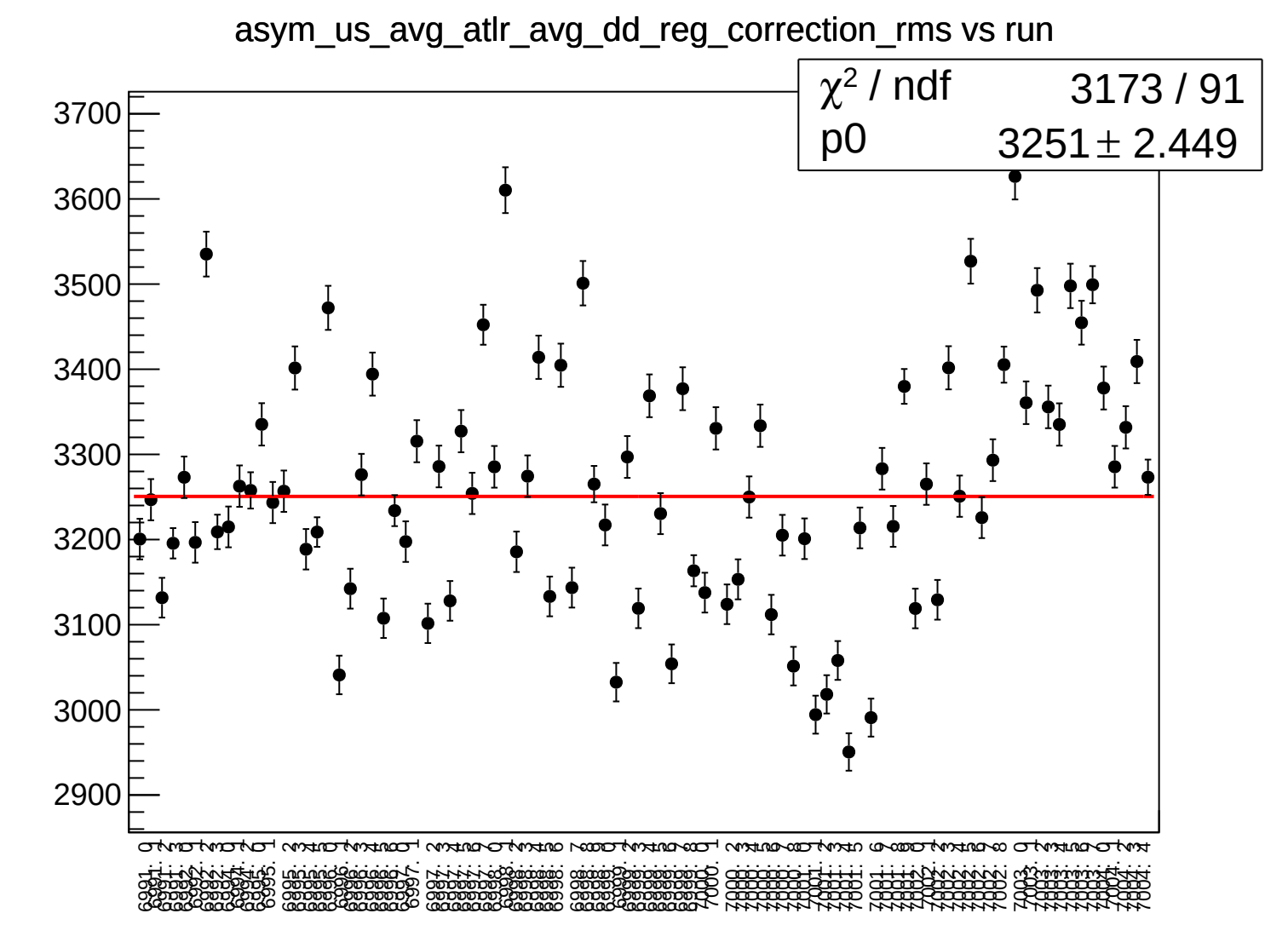

pull1D
Entries 92
Mean −0.04341
Std Dev 0.9707

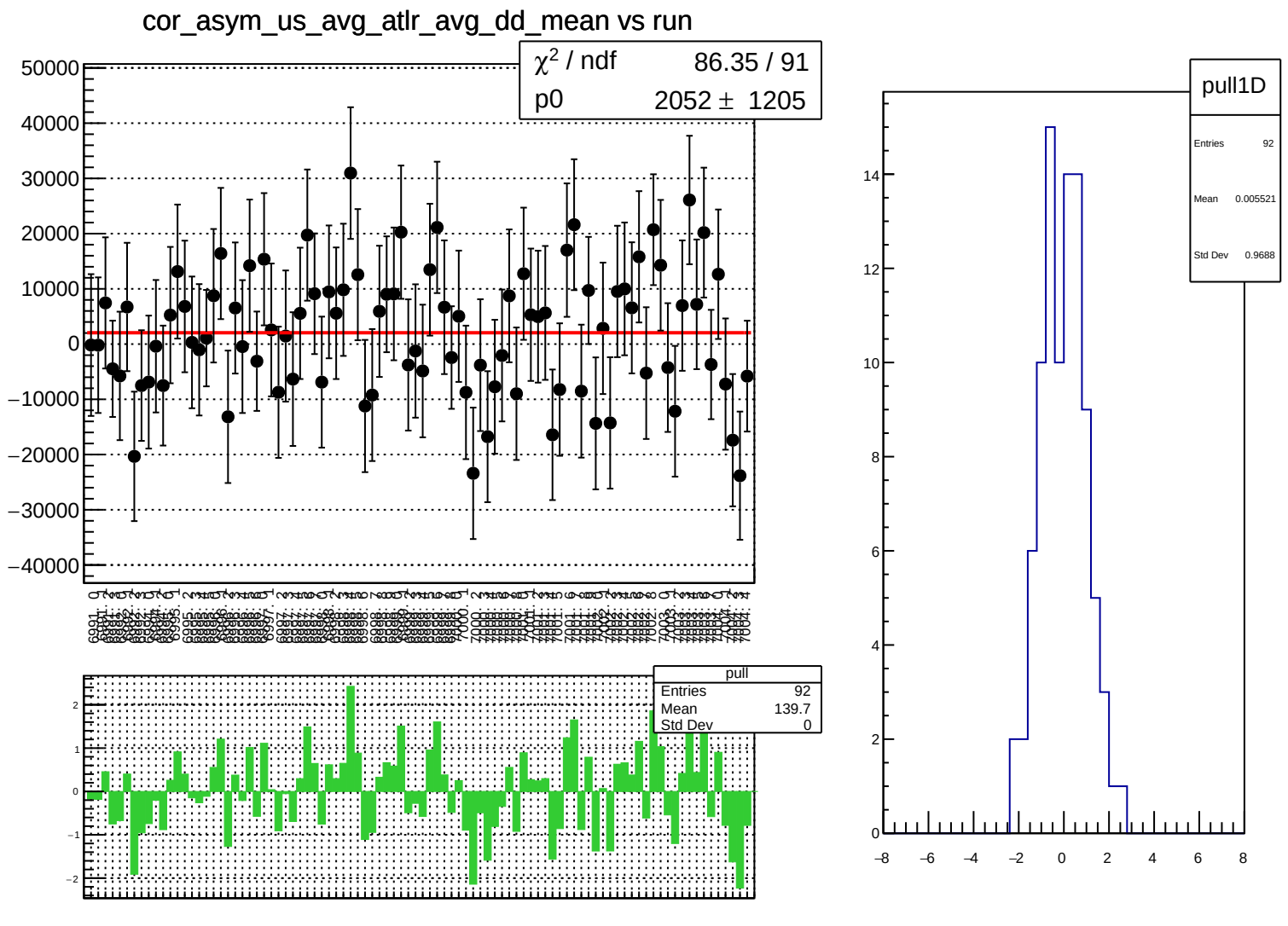

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 4.266e+05 / 91
p0 8.177e−11 ± 7.068e−14

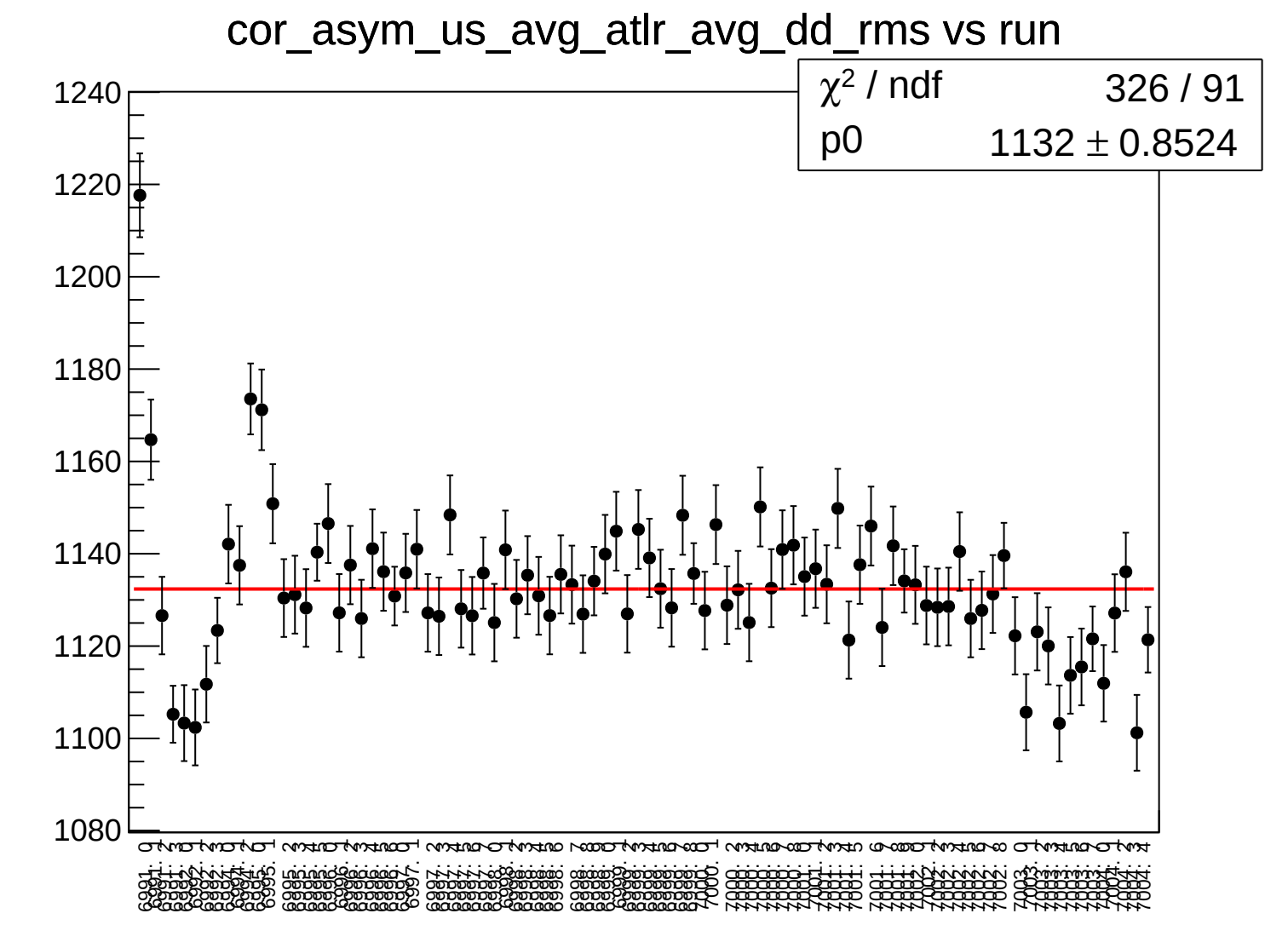

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 86.35 / 91
p0 2053 ± 1205
pull
Entries 92
Mean 139.7
Std Dev 0
pull1D
Entries 92
Mean 0.005518
Std Dev 0.9688

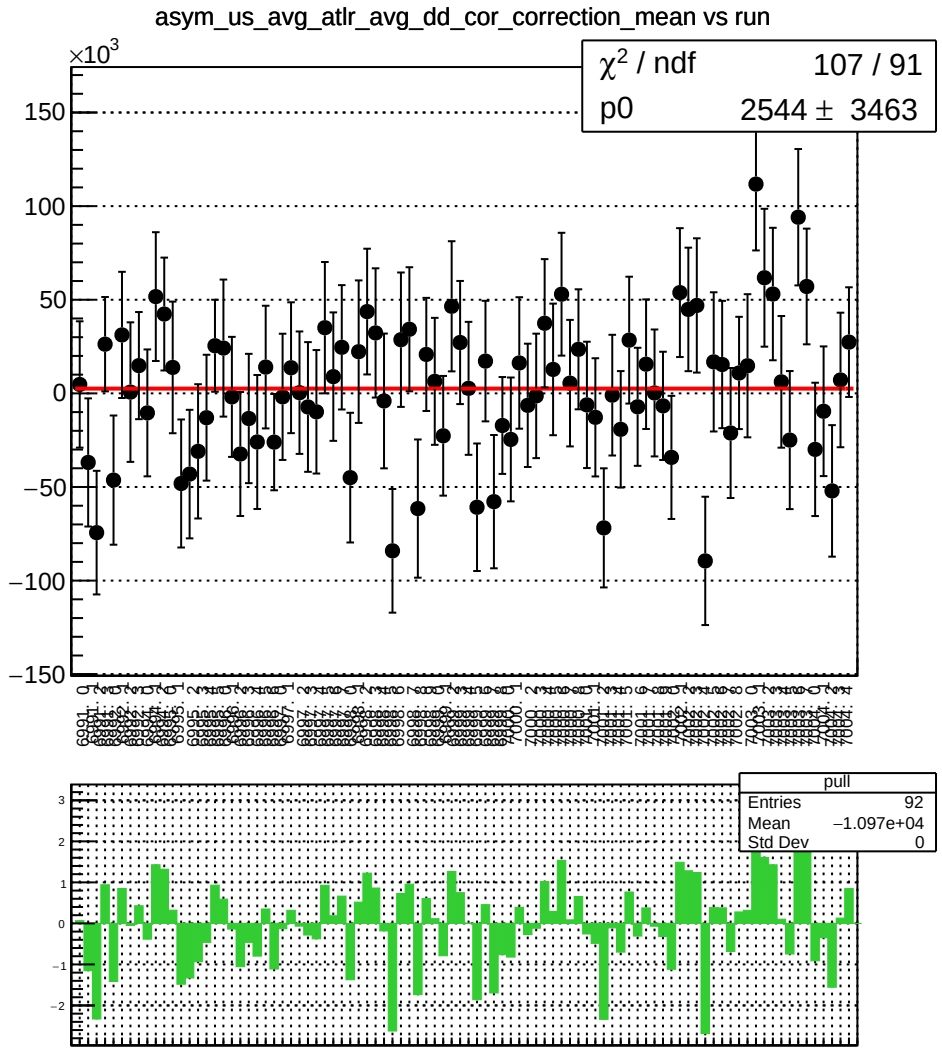

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 326 / 91
p0 1132 ± 0.8524
1240
1220
1200
1180
1160
1140
1120
1100
1080

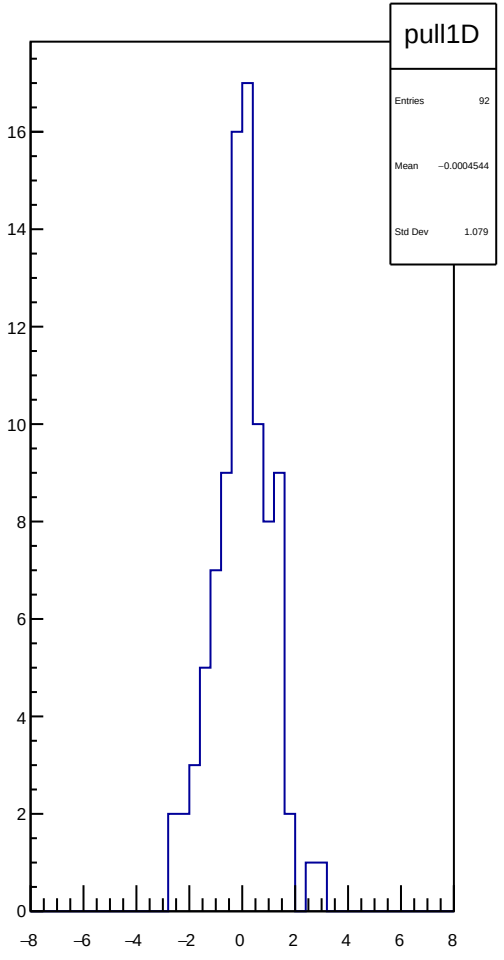

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 107 / 91
p0 2544 ± 3463
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1.095e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0004551
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

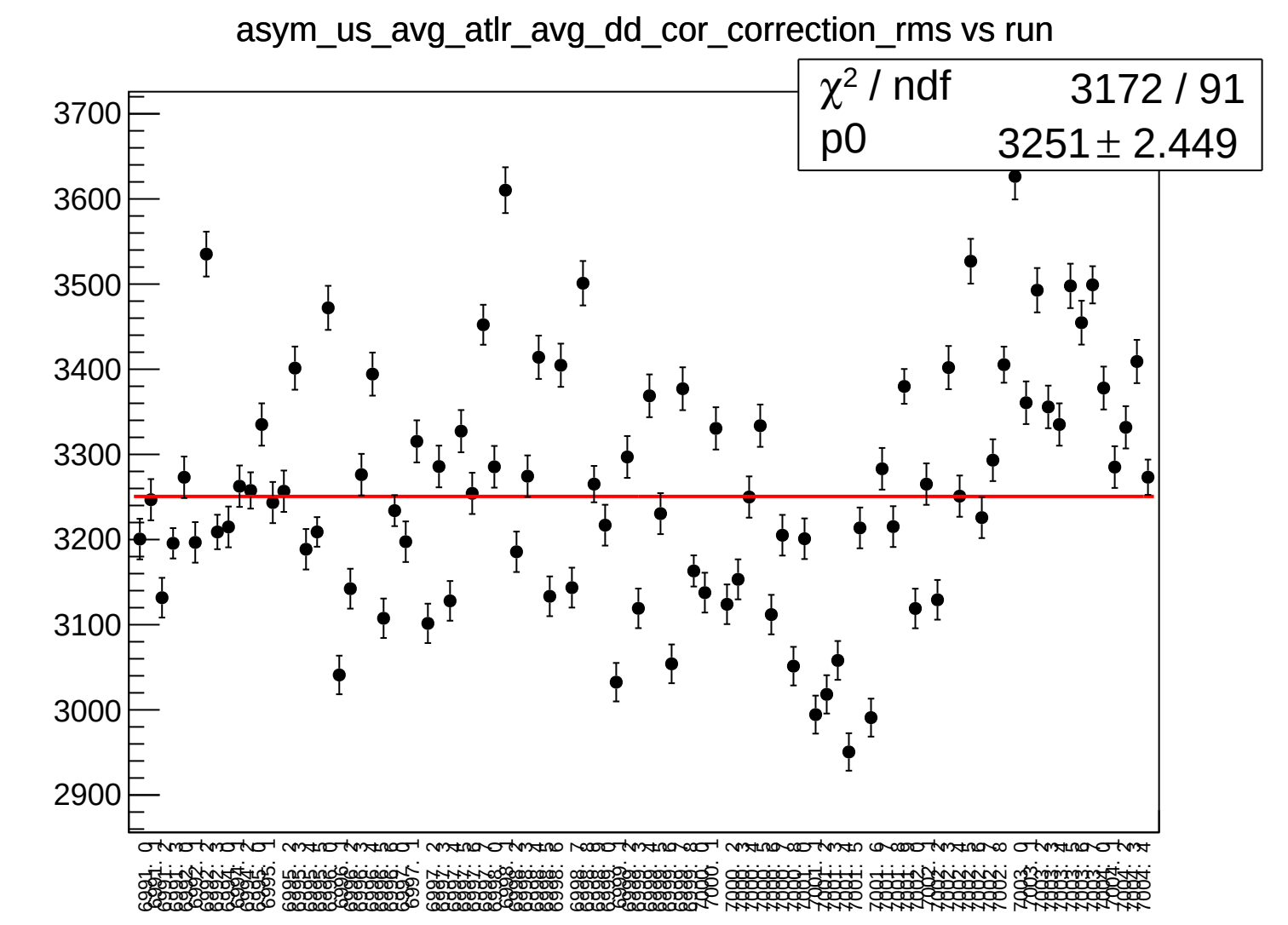

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 3173 / 91
p0 3251 ± 2.449
3700
3600
3500
3400
3300
3200
3100
3000
2900

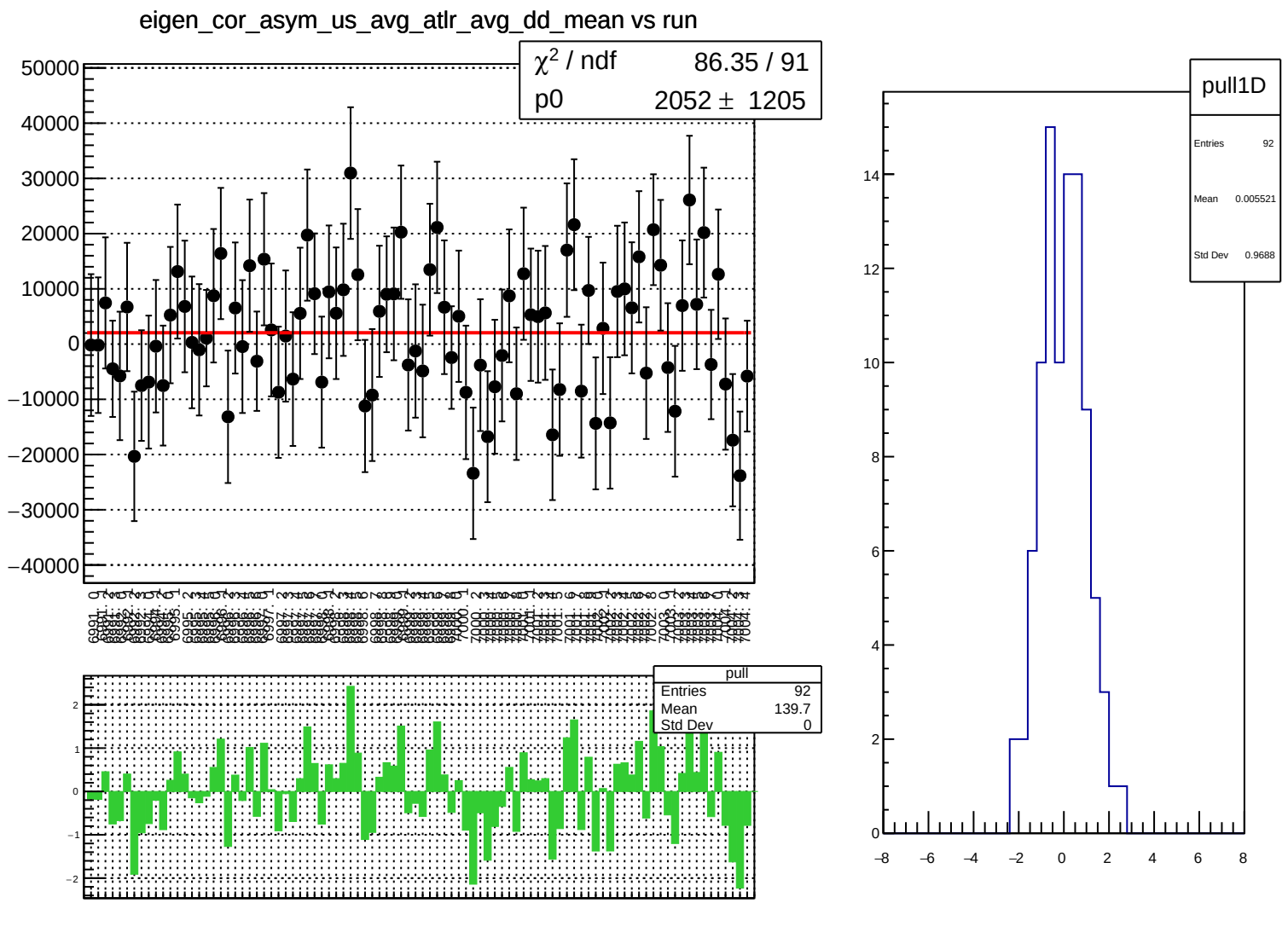

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 86.35 / 91
p0 2052 ± 1205
pull
Entries 92
Mean 139.7
Std Dev 0
pull1D
Entries 92
Mean 0.005521
Std Dev 0.9688

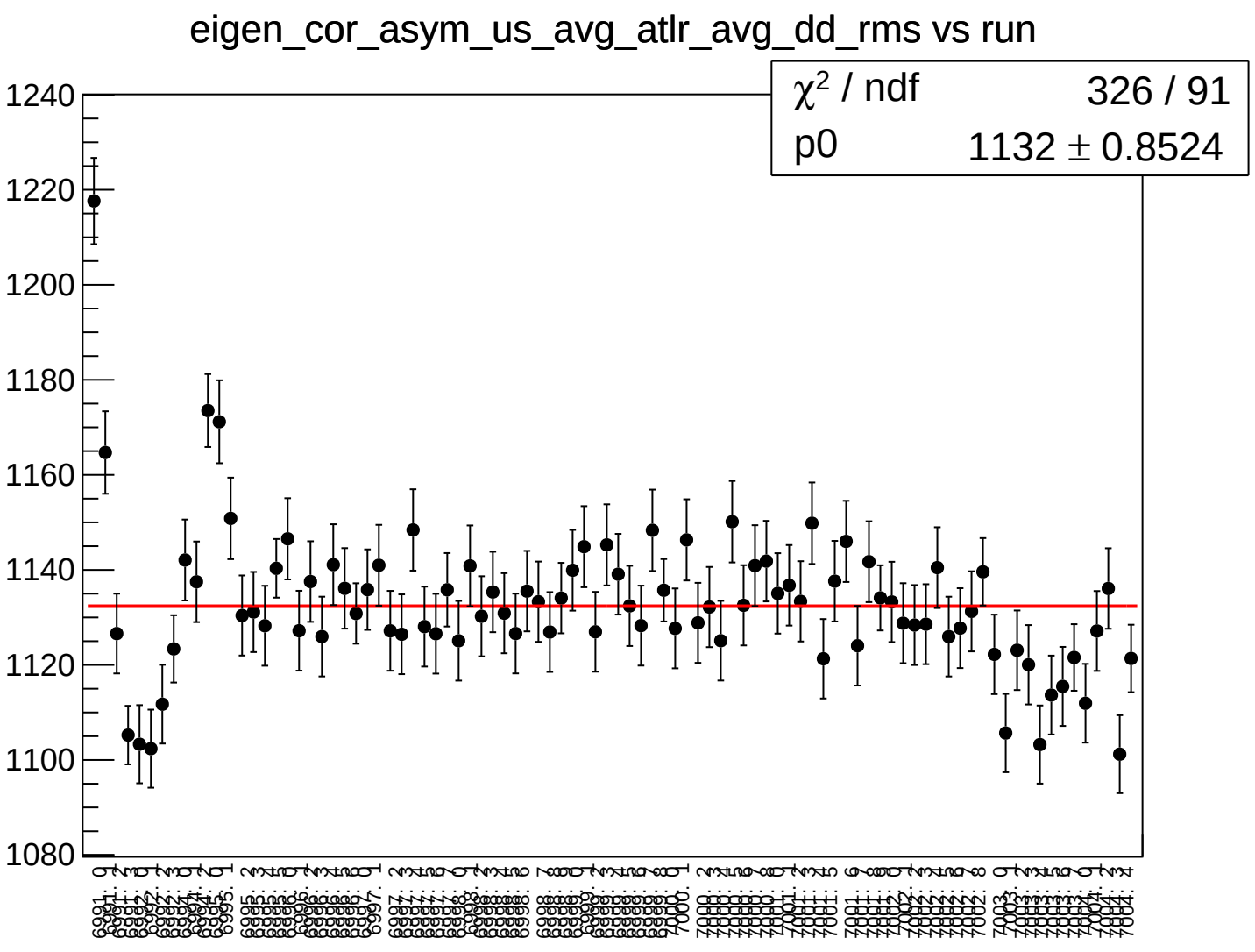

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 326 / 91
p0 1132 ± 0.8524
1240
1220
1200
1180
1160
1140
1120
1100
1080

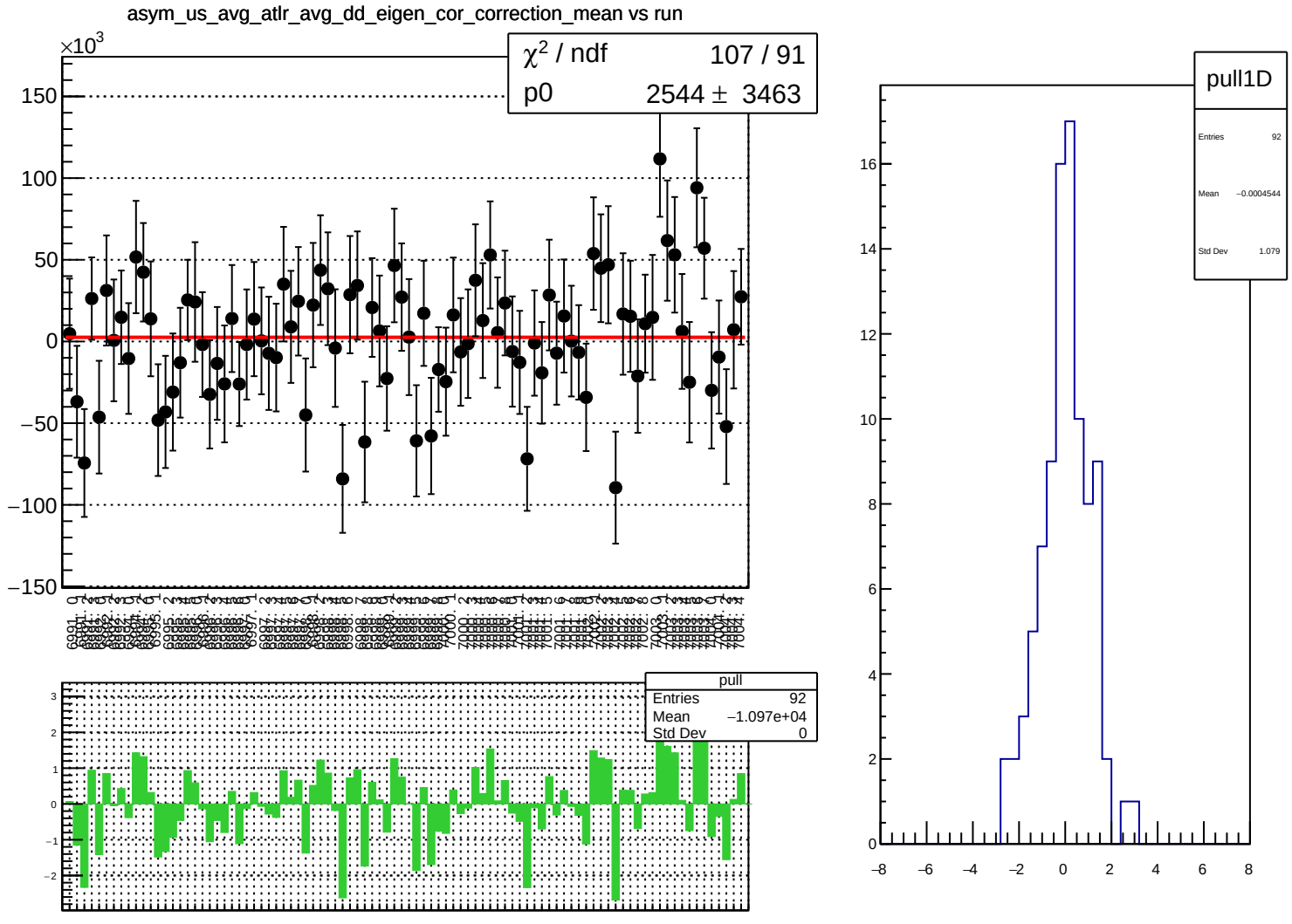

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 107 / 91
p0 2544 ± 3463
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1.097e+04
Std Dev 0
3
2
1
0
−1
−2

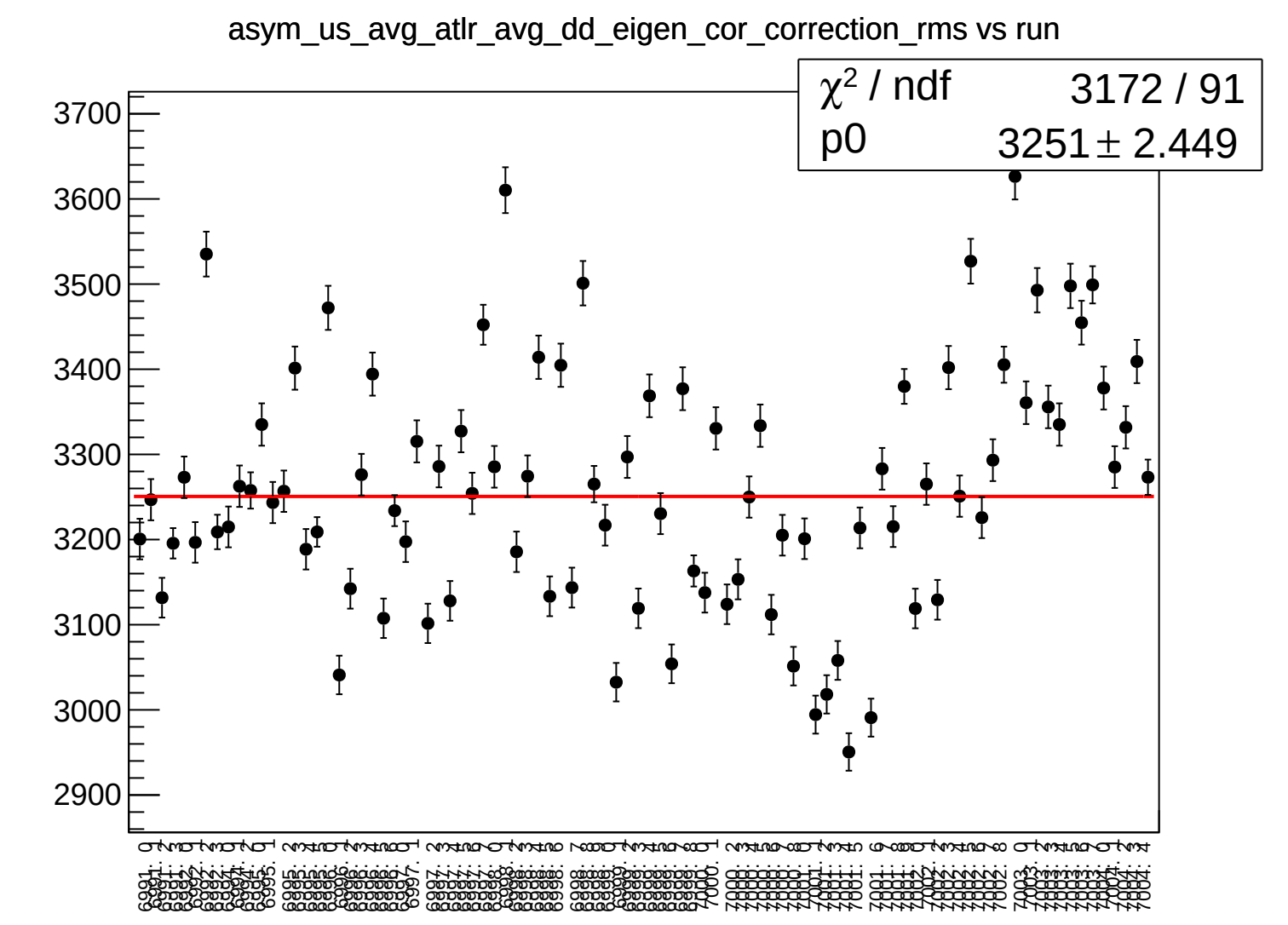

pull1D
Entries 92
Mean −0.0004544
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

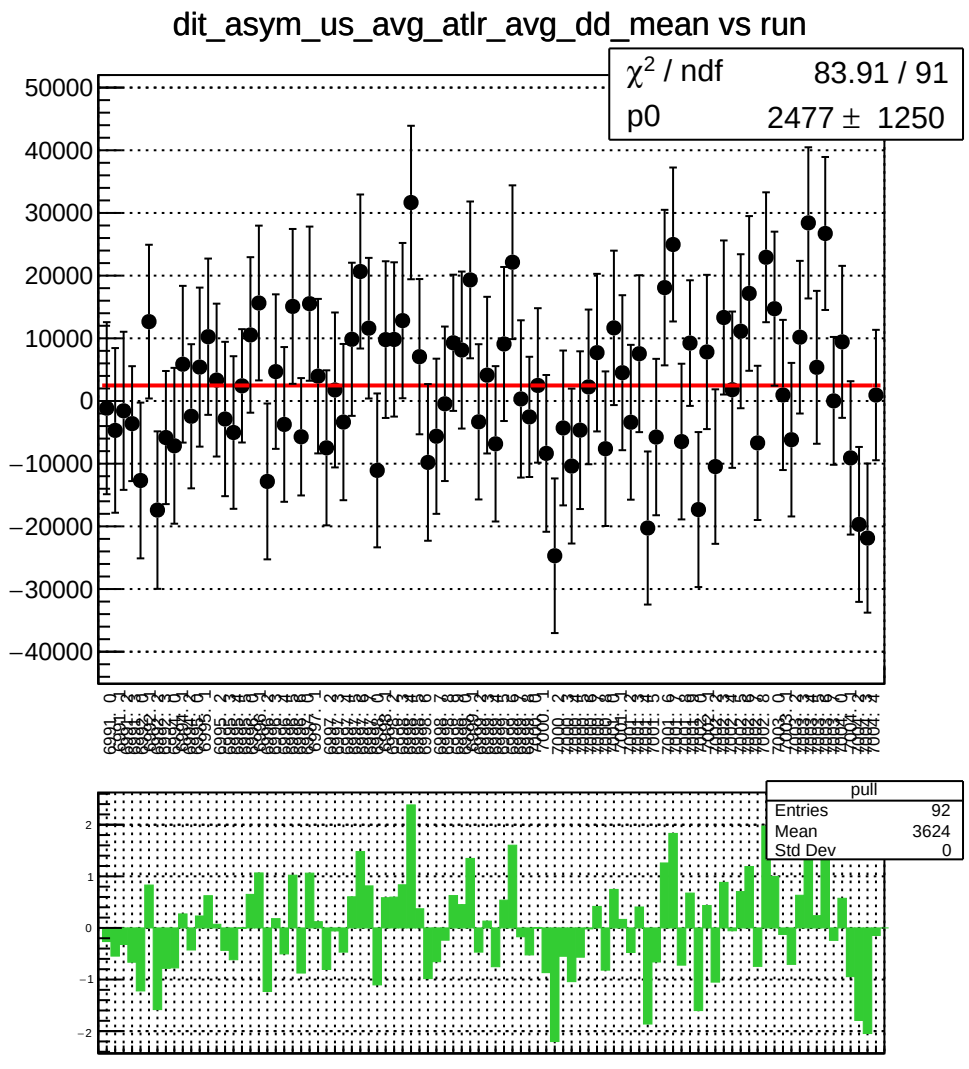

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 3172 / 91
p0 3251 ± 2.449
3700
3600
3500
3400
3300
3200
3100
3000
2900

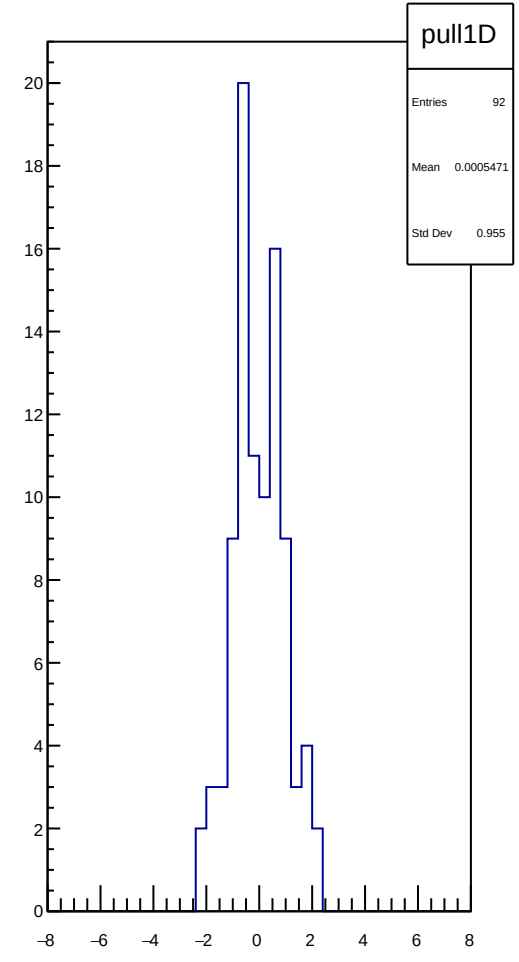

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 86.35 / 91
p0 2052 ± 1205
pull
Entries 92
Mean 139.7
Std Dev 0
pull1D
Entries 92
Mean 0.005521
Std Dev 0.9688

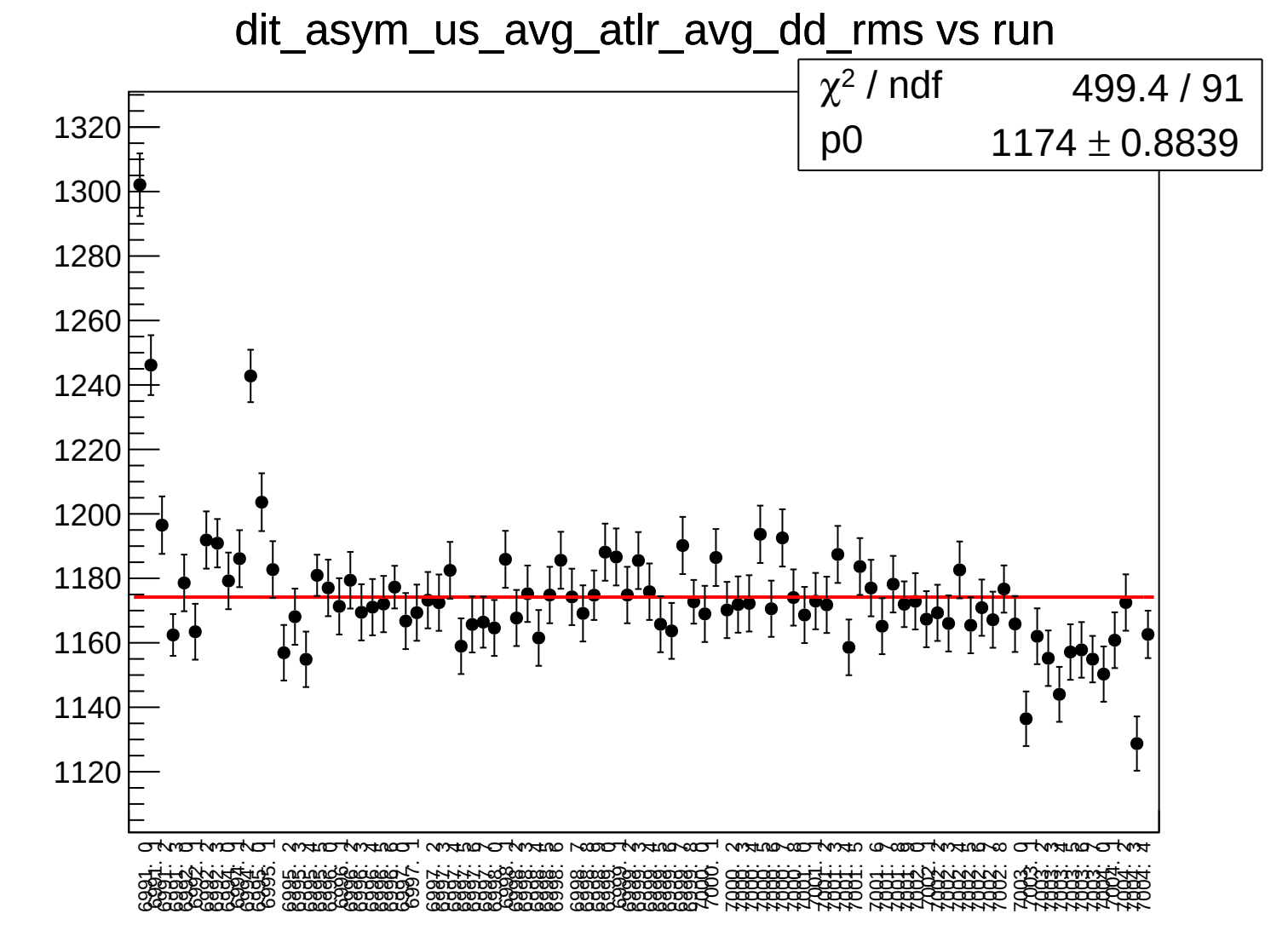

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 326 / 91
p0 1132 ± 0.8524
1240
1220
1200
1180
1160
1140
1120
1100
1080

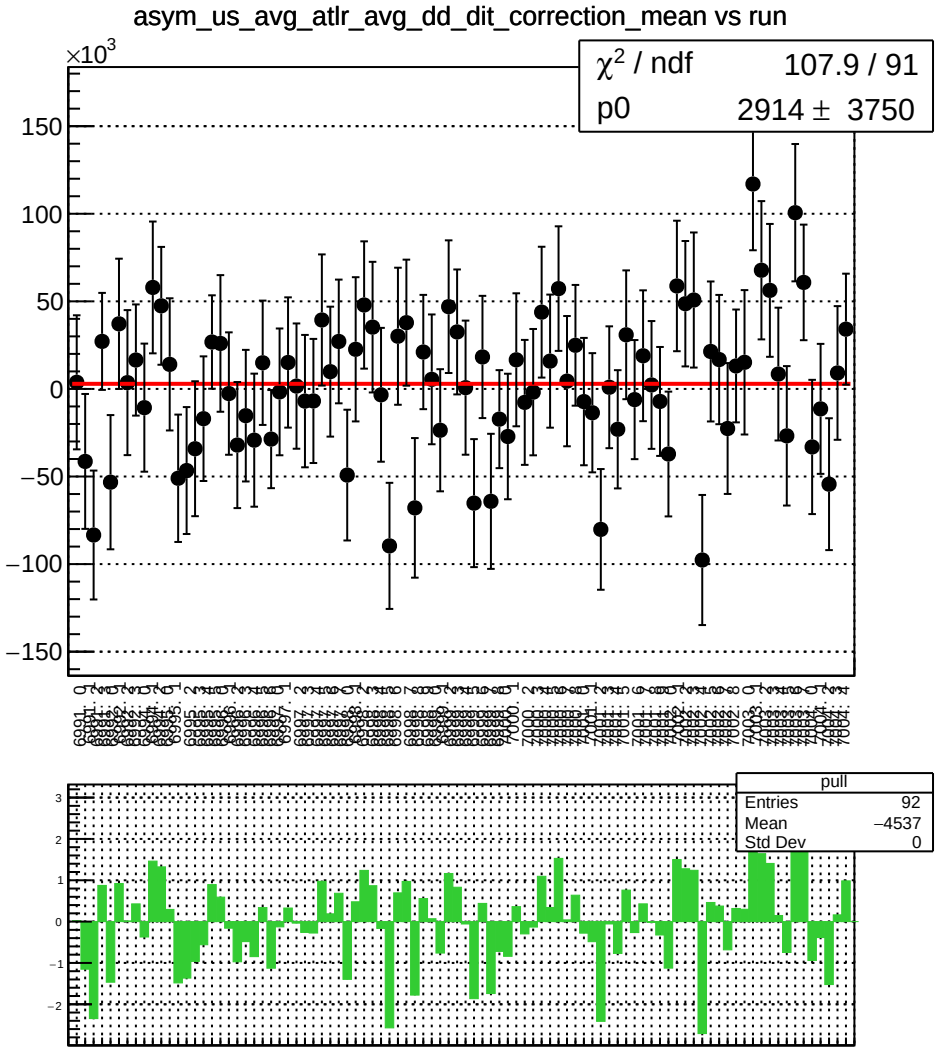

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 107 / 91
p0 2544 ± 3463
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1.097e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0004544
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

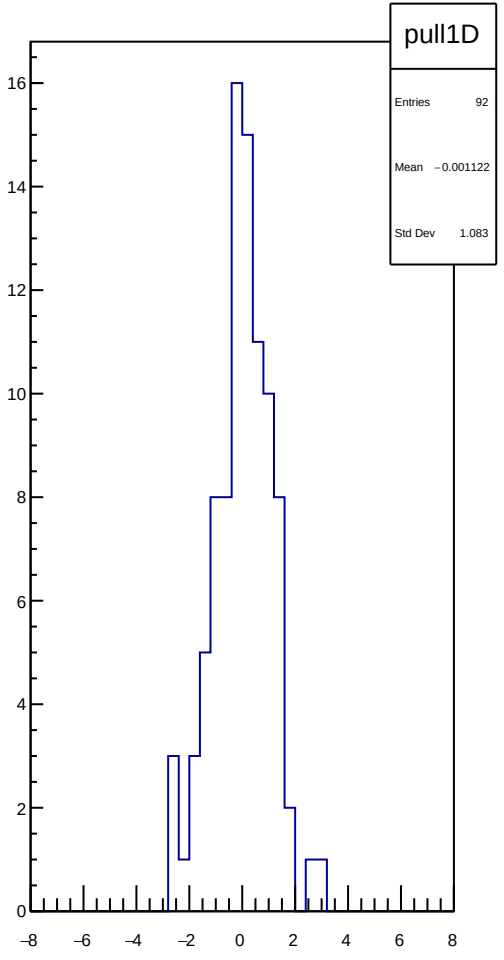

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3172 / 91
p0 3251 ± 2.449
3700
3600
3500
3400
3300
3200
3100
3000
2900

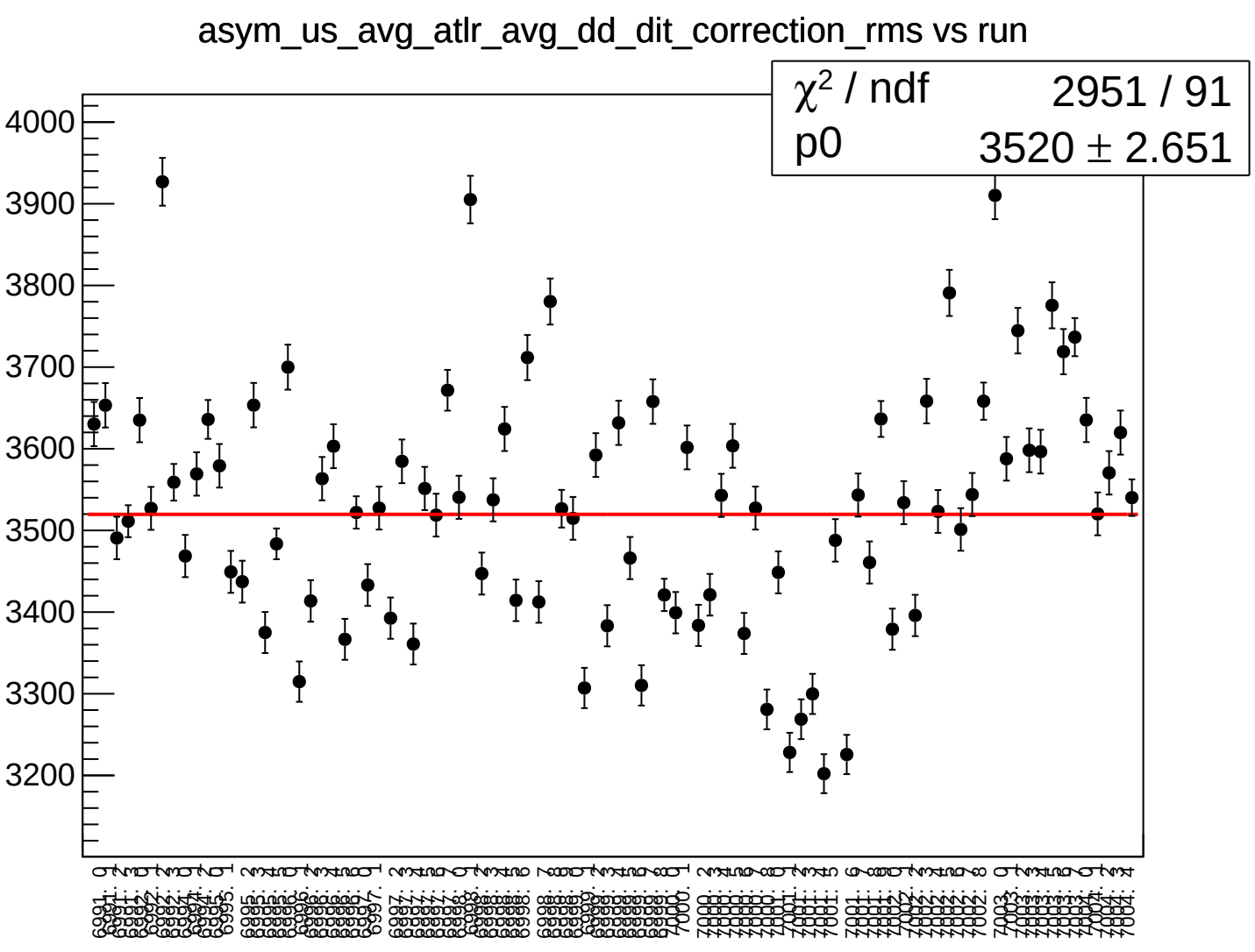

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 83.91 / 91
p0 2477 ± 1250
pull
Entries 92
Mean 3624
Std Dev 0

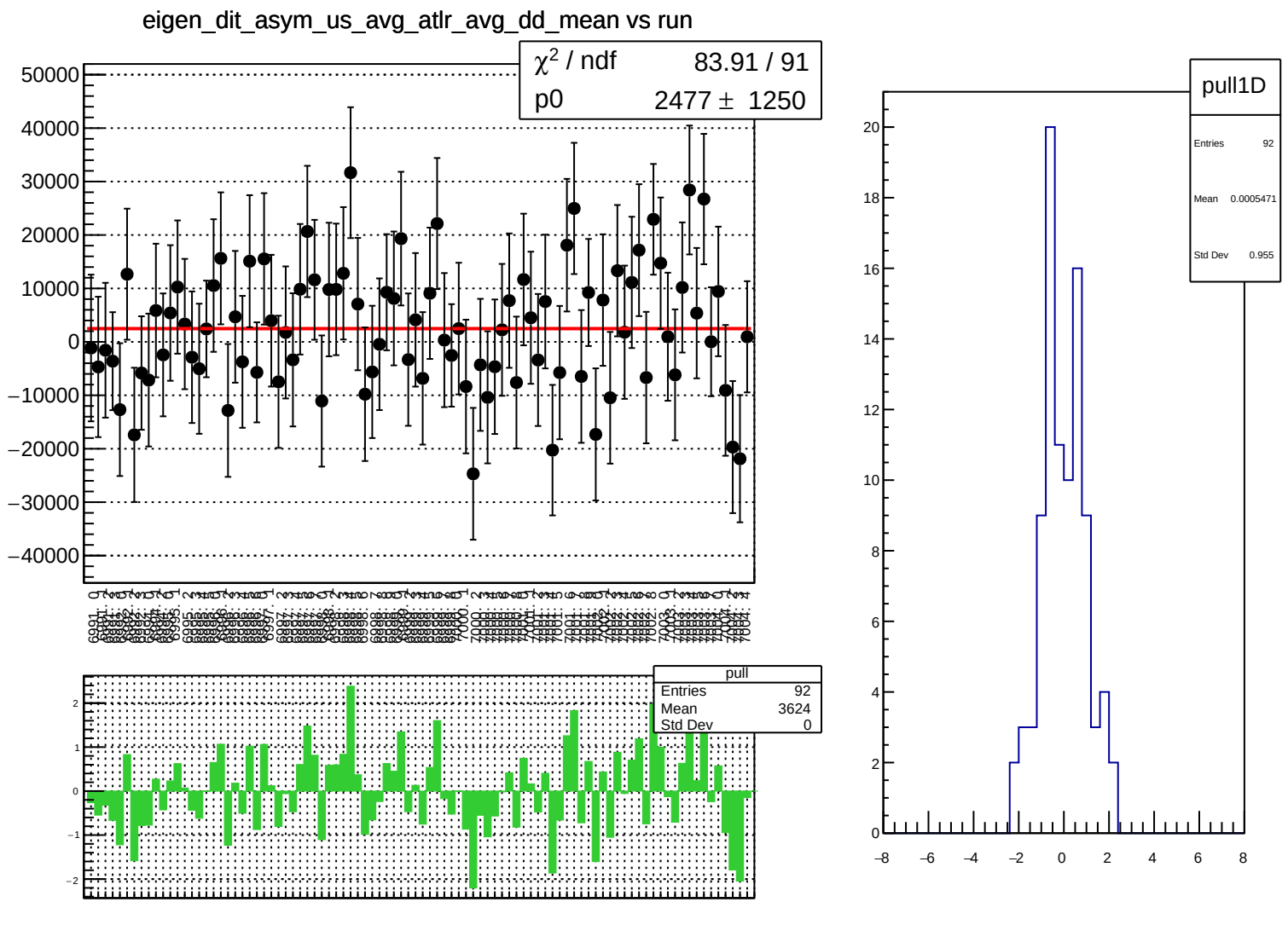

pull1D
Entries 92
Mean 0.0005471
Std Dev 0.955

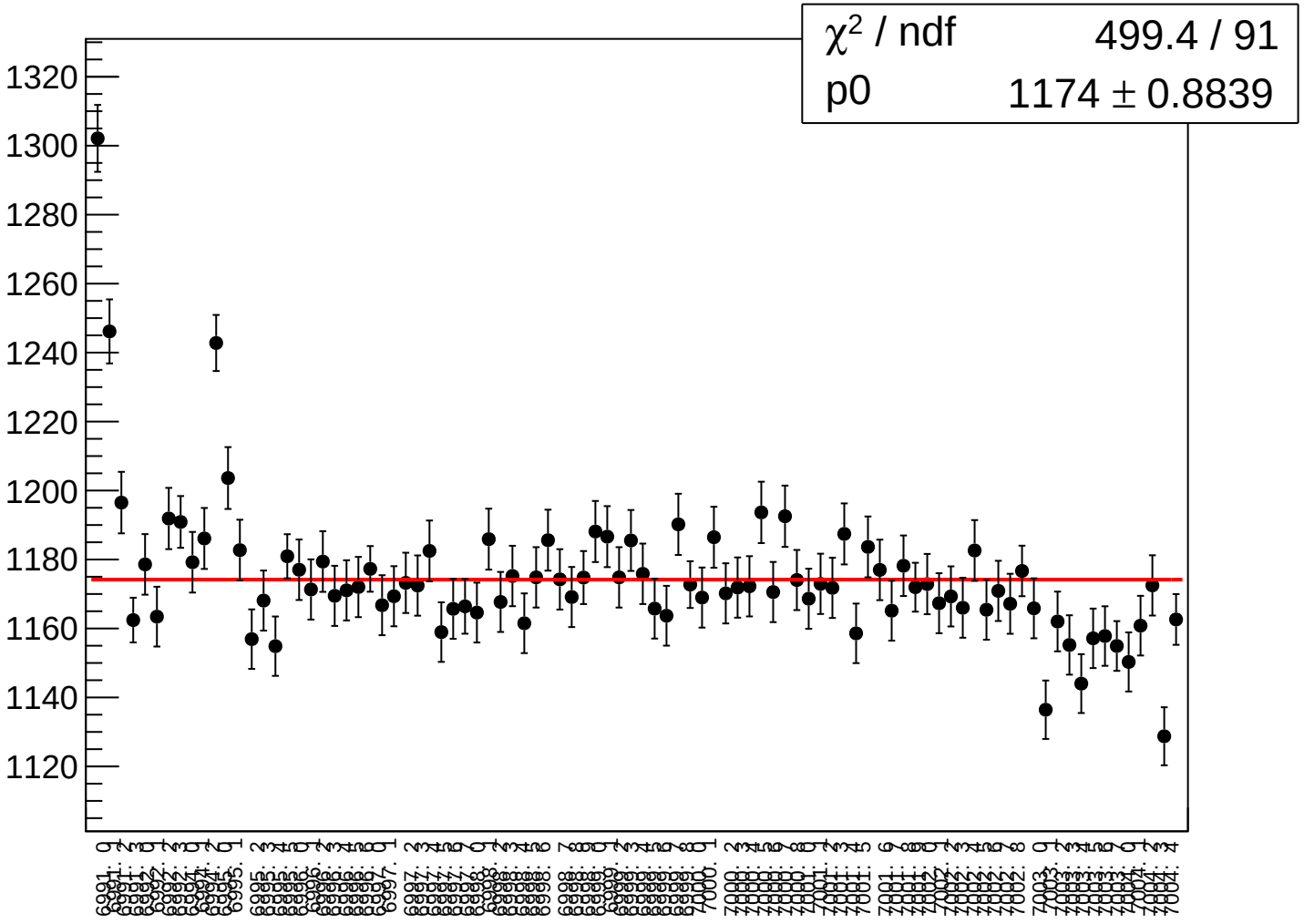

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 499.4 / 91
p0 1174 ± 0.8839
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

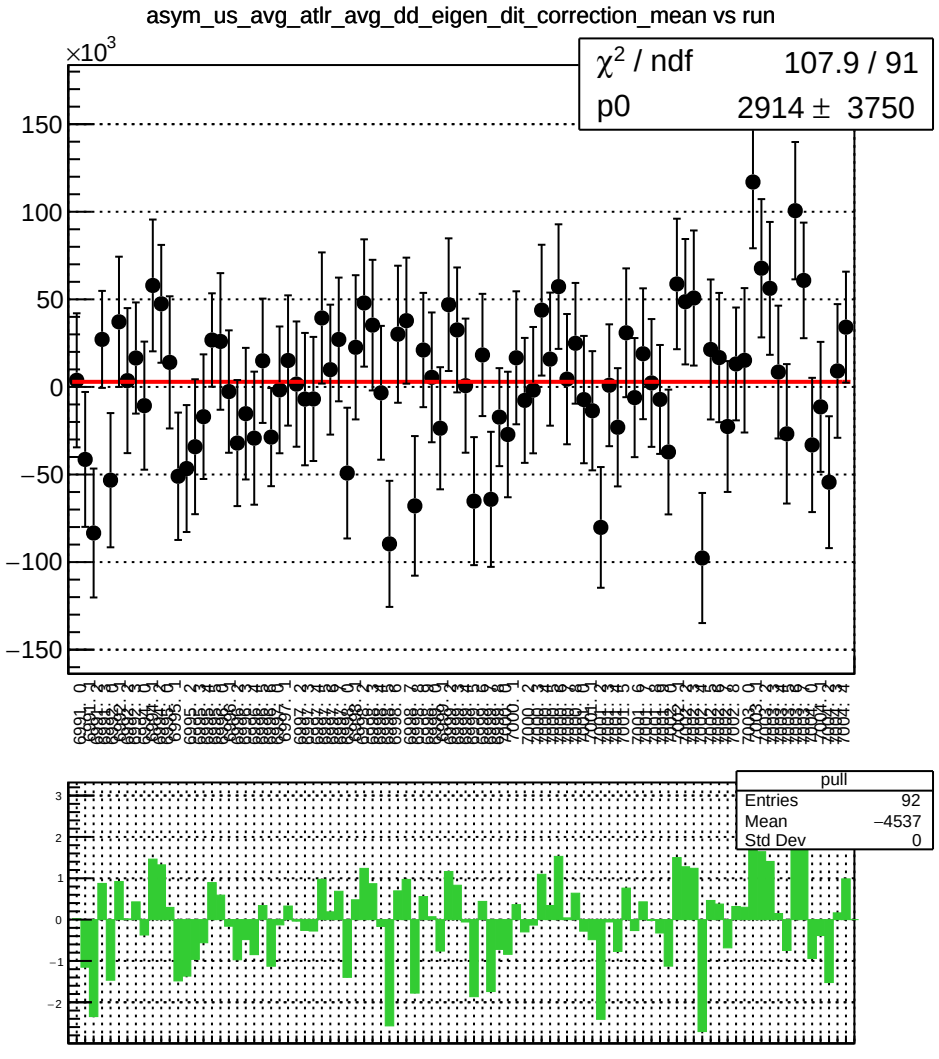

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 91
p0 2914 ± 3750
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −4537
Std Dev 0
3
2
1
0
−1
−2

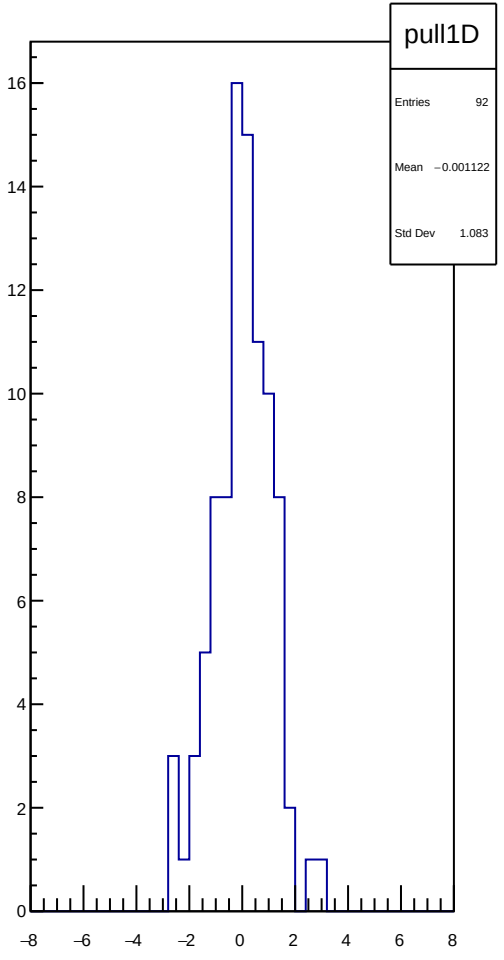

pull1D
Entries 92
Mean −0.001122
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

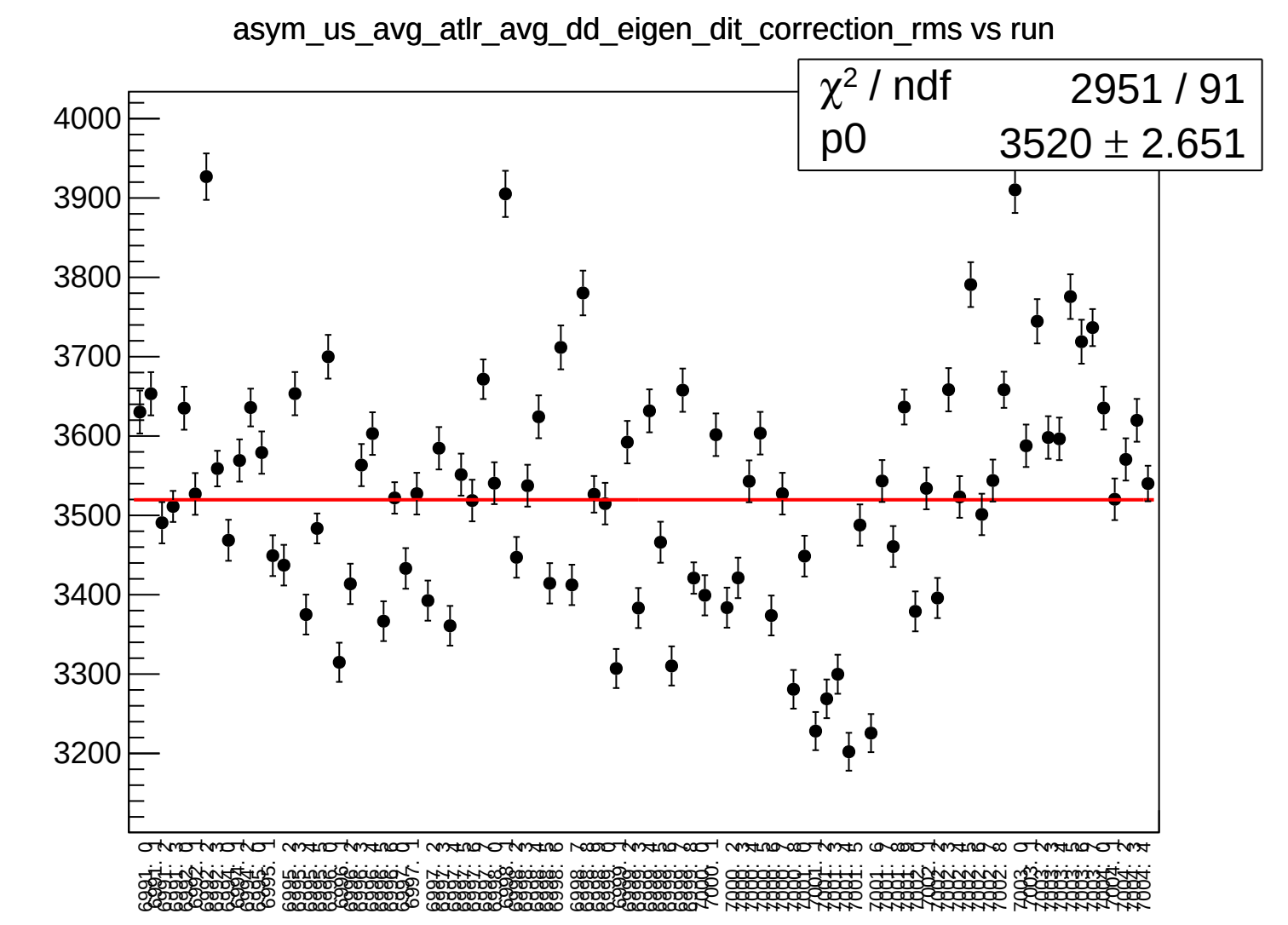

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 2951 / 91
p0 3520 ± 2.651
4000
3900
3800
3700
3600
3500
3400
3300
3200

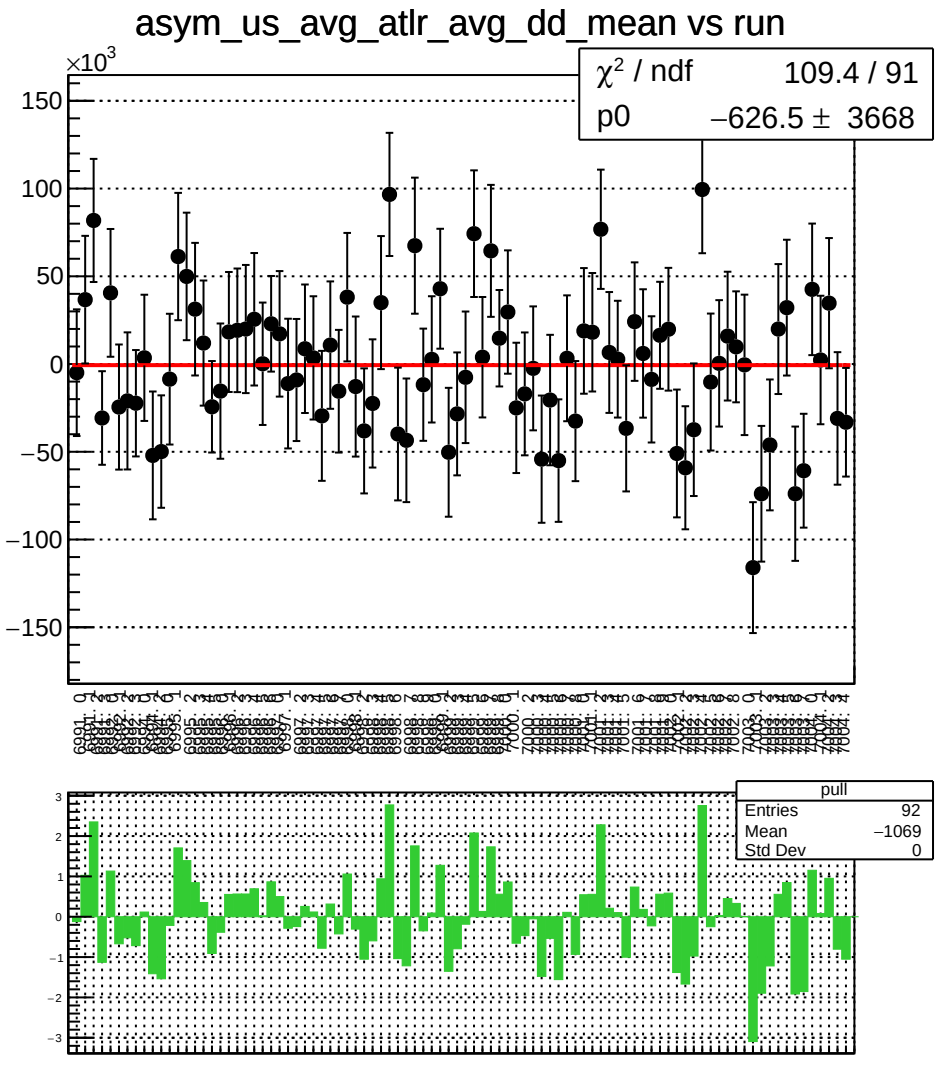

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 83.91 / 91
p0 2477 ± 1250
pull
Entries 92
Mean 3624
Std Dev 0
pull1D
Entries 92
Mean 0.0005471
Std Dev 0.955

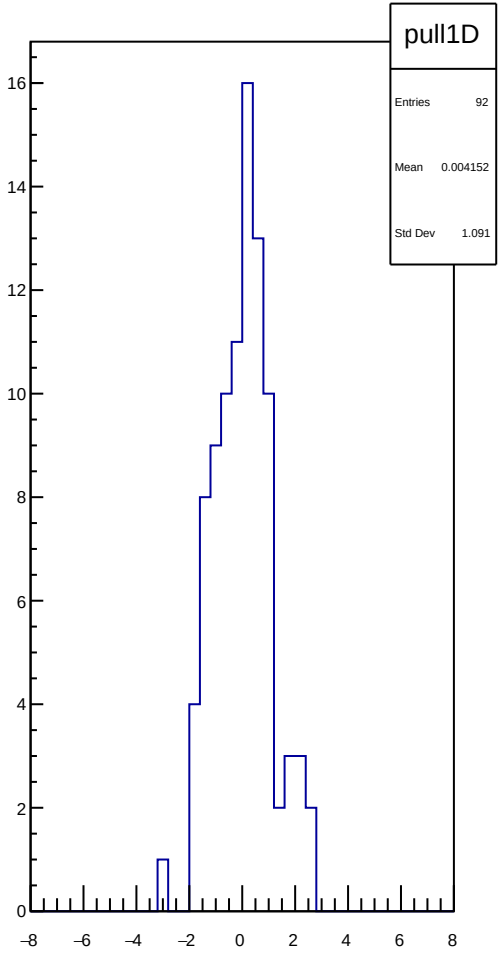

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 499.4 / 91
p0 1174 ± 0.8839
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

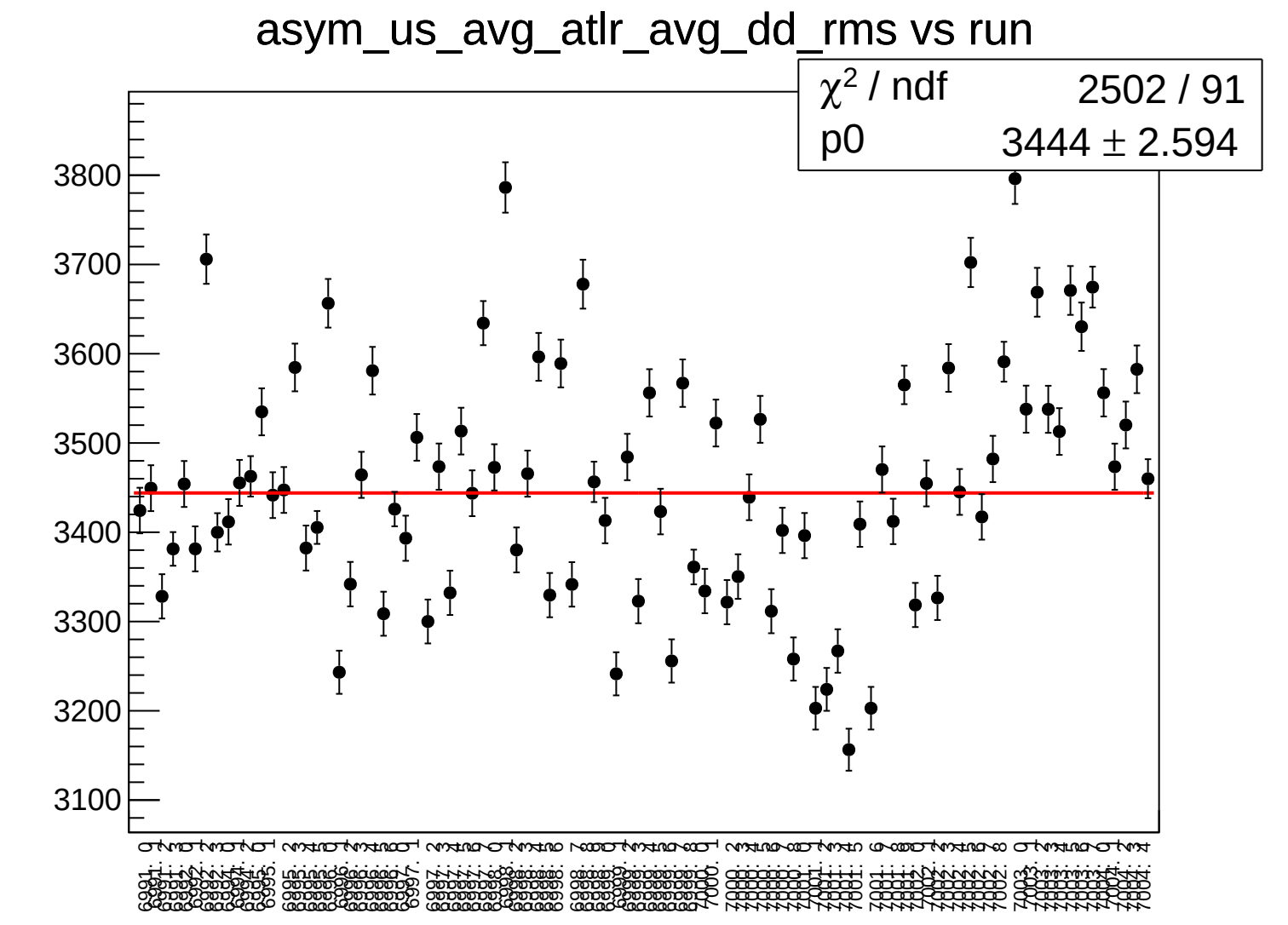

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.9 / 91
p0 2914 ± 3750
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −4537
Std Dev 0
3
2
1
0
−1
−2

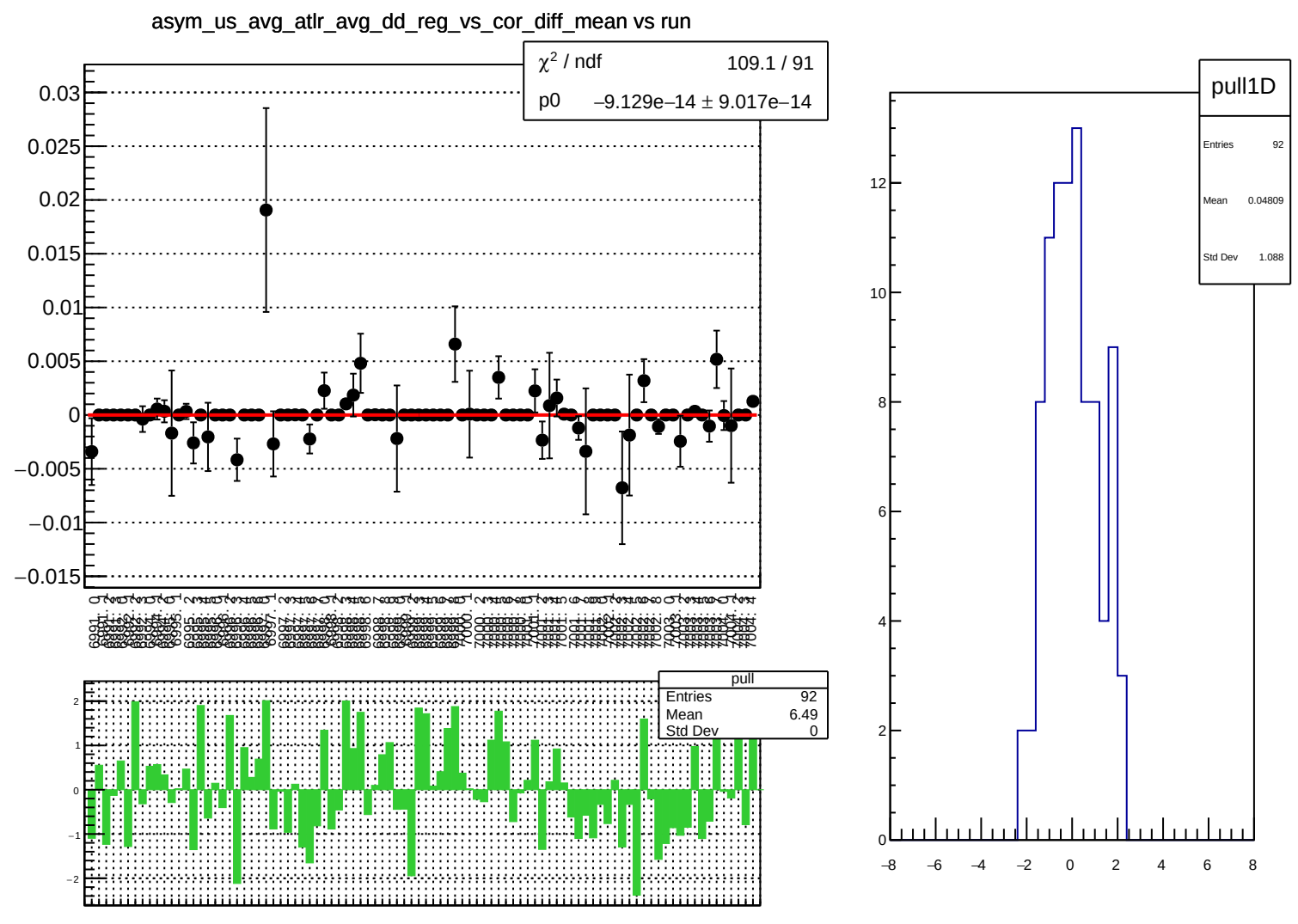

pull1D
Entries 92
Mean −0.001122
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

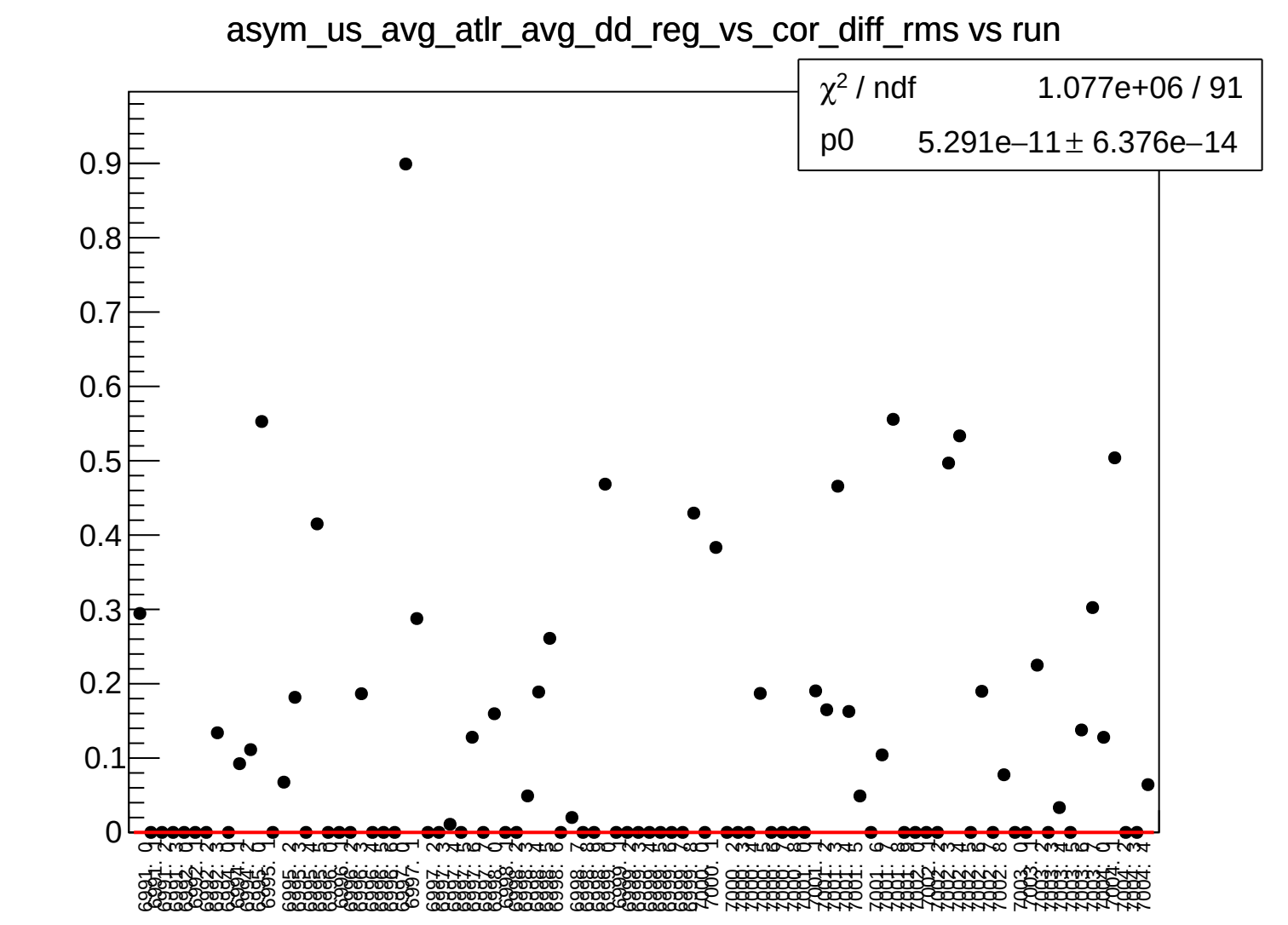

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2951 / 91
p0 3520 ± 2.651
4000
3900
3800
3700
3600
3500
3400
3300
3200

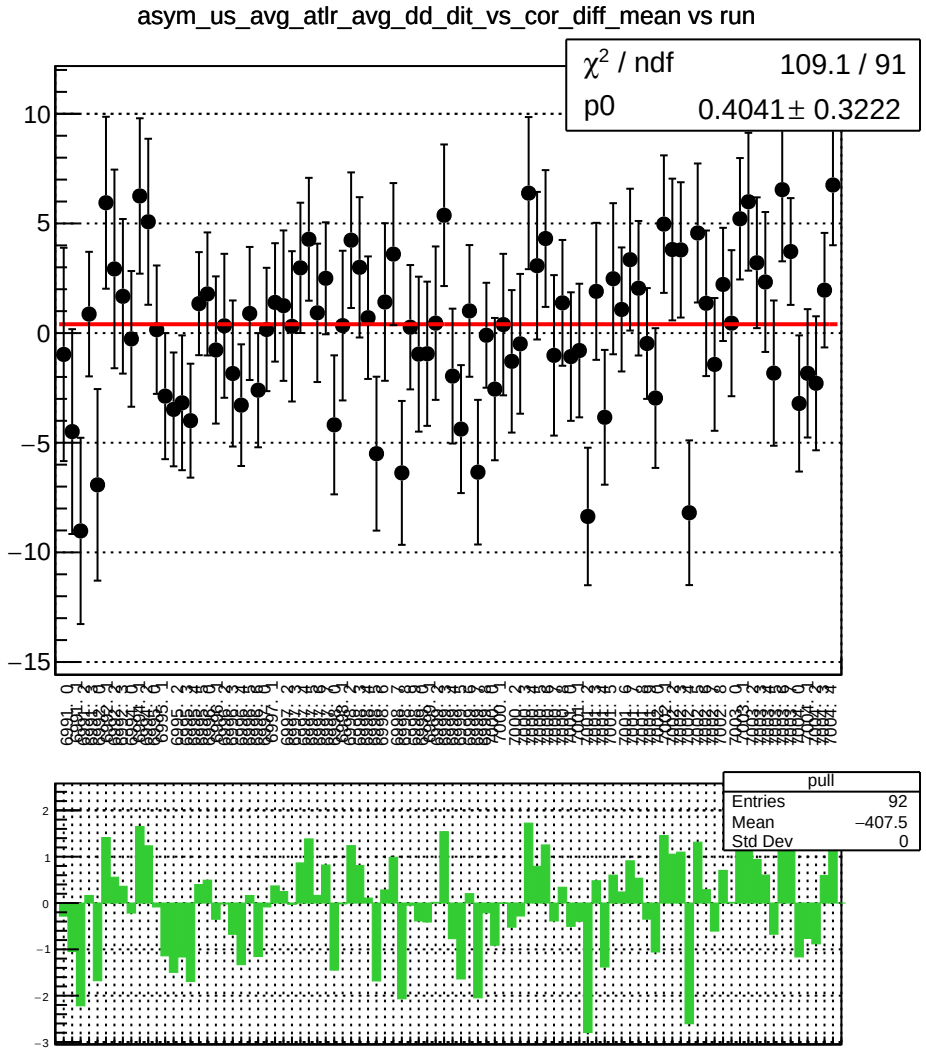

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 109.4 / 91
p0 −626.5 ± 3668
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1069
Std Dev 0
3
2
1
0
−1
−2
−3

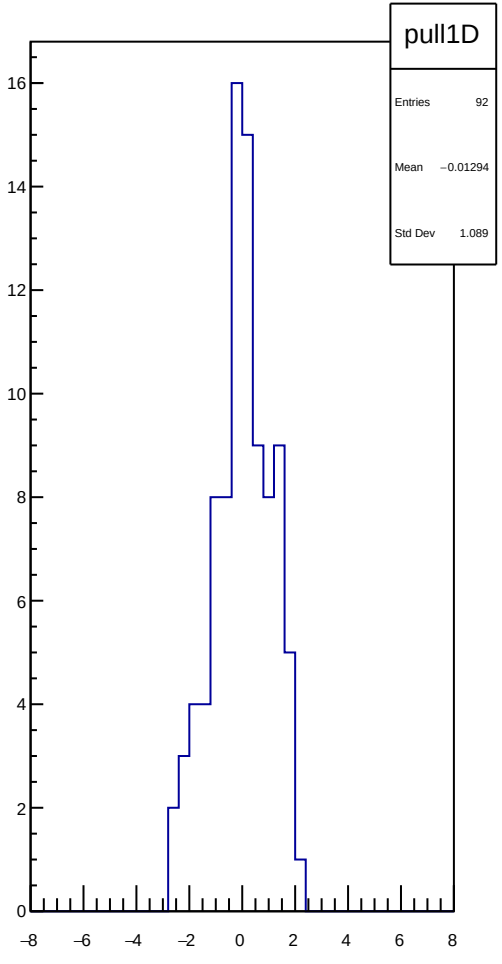

pull1D
Entries 92
Mean 0.004152
Std Dev 1.091
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

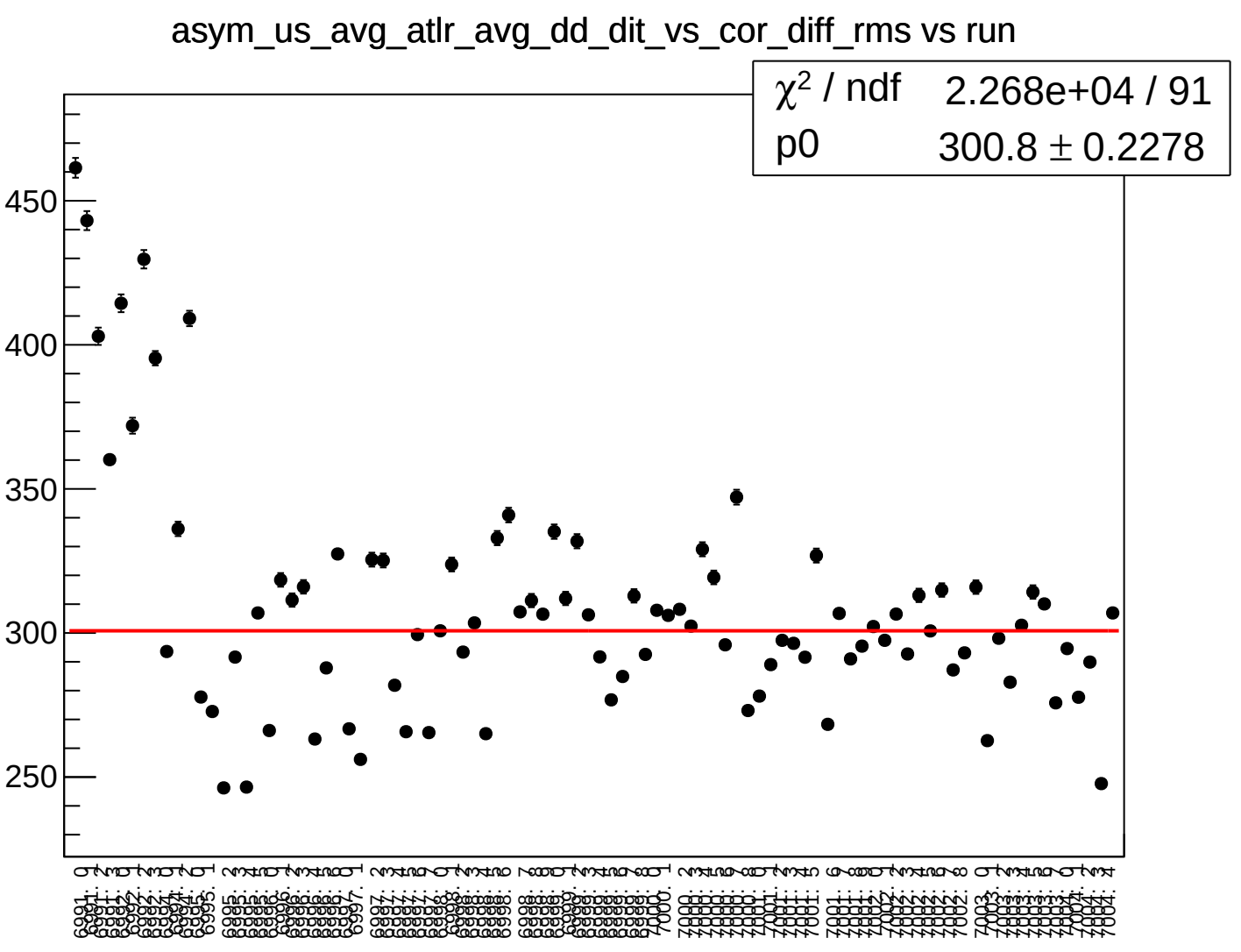

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 2502 / 91
p0 3444 ± 2.594
3800
3700
3600
3500
3400
3300
3200
3100

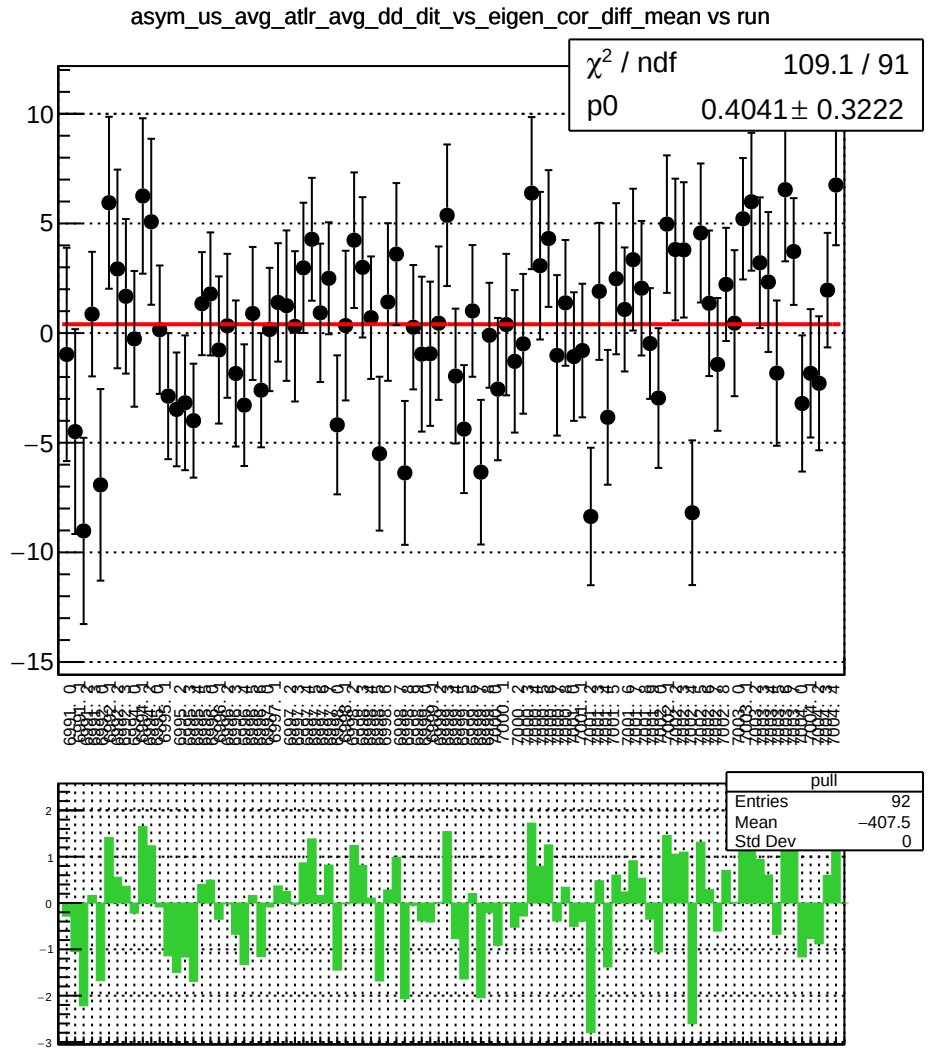

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 91
p0 −9.129e−14 ± 9.017e−14
pull
Entries 92
Mean 6.49
Std Dev 0
pull1D
Entries 92
Mean 0.04809
Std Dev 1.088

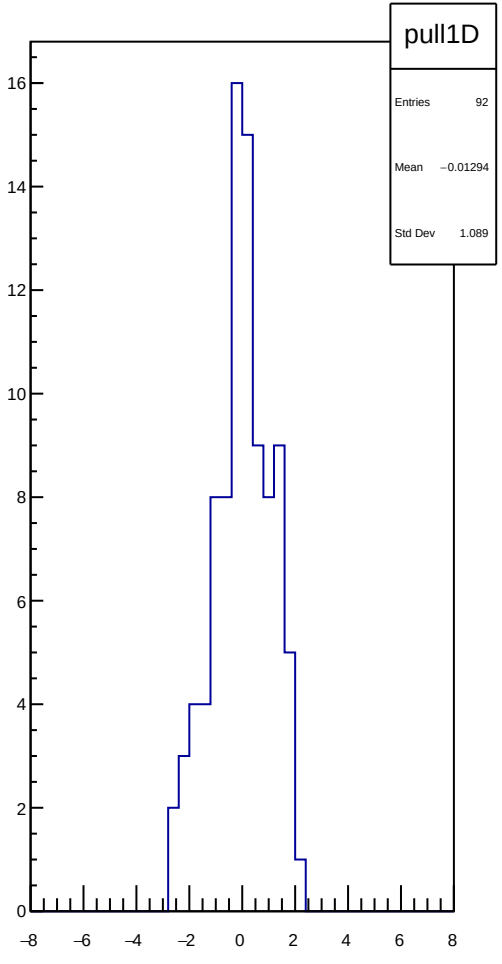

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.077e+06 / 91
p0 5.291e−11 ± 6.376e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

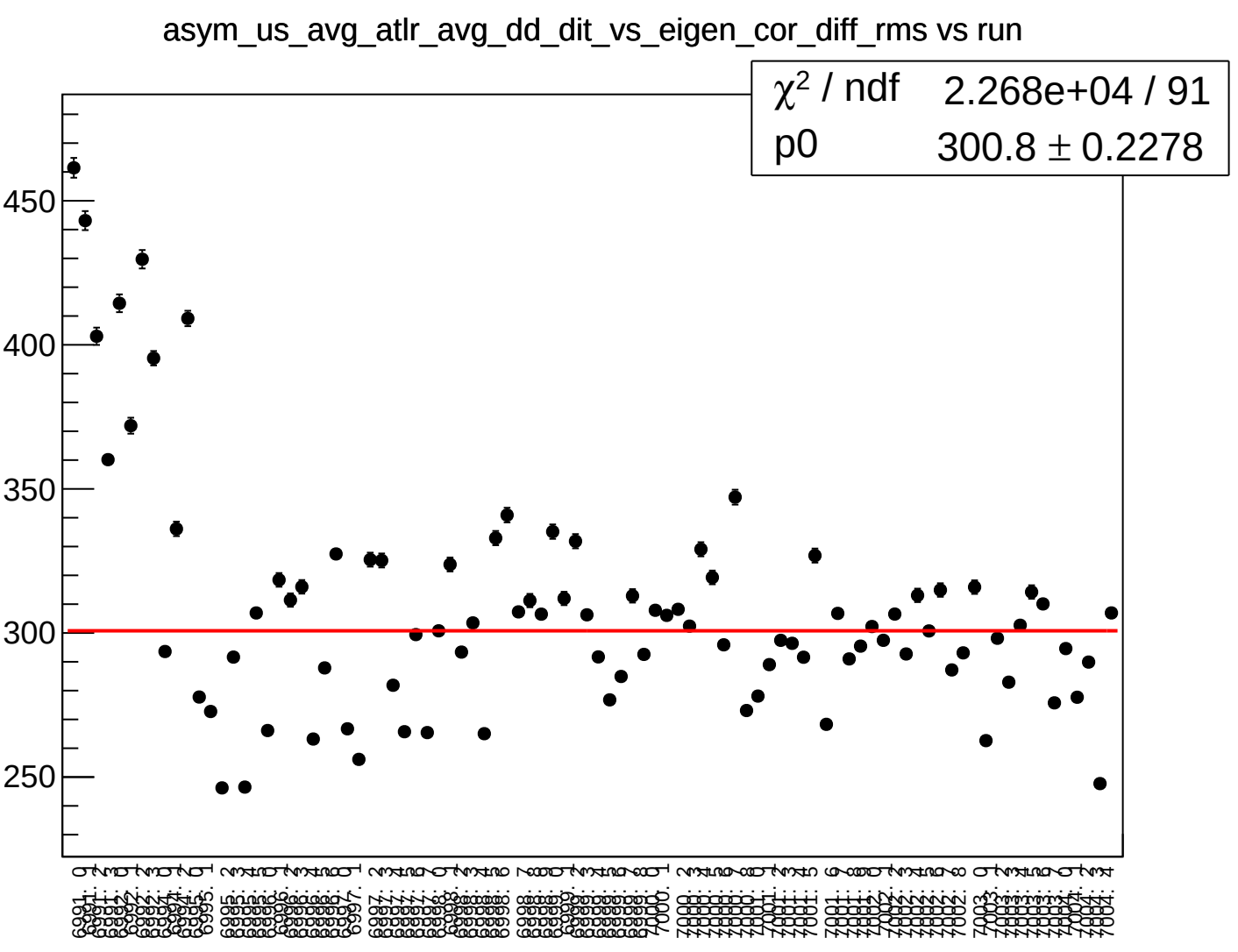

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 91
p0 0.4041± 0.3222
pull
Entries 92
Mean −407.5
Std Dev 0

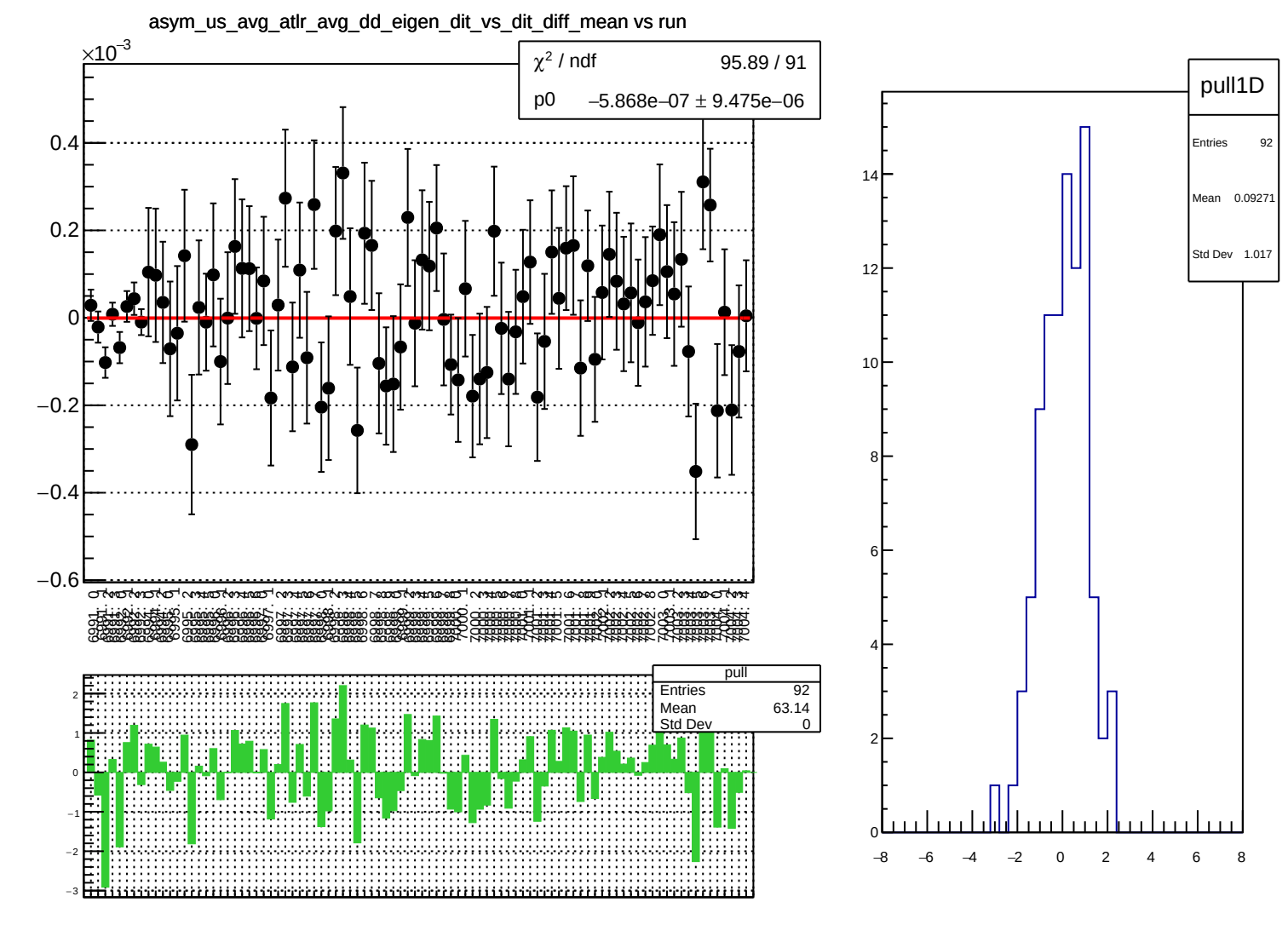

pull1D
Entries 92
Mean −0.01294
Std Dev 1.089

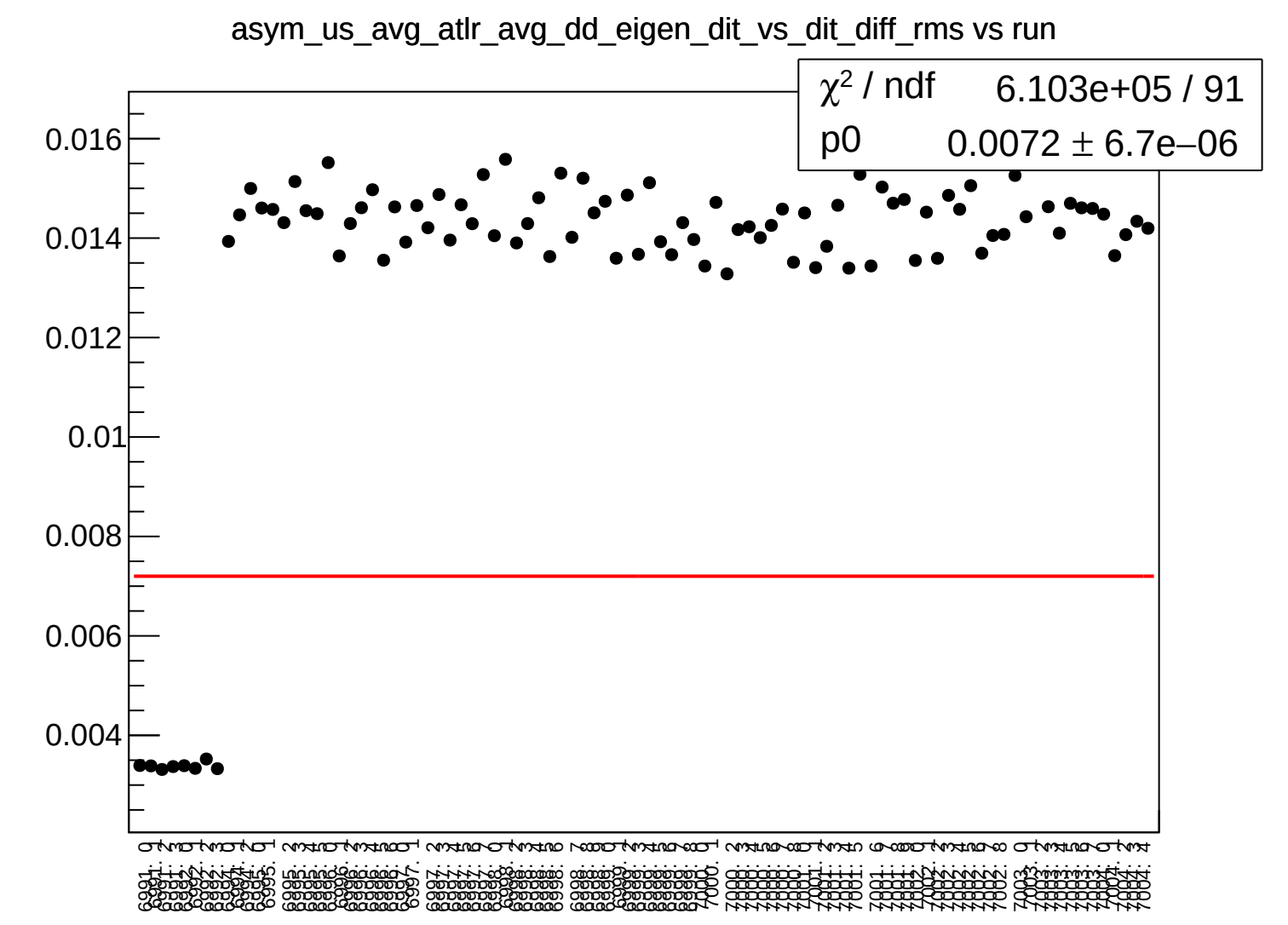

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.268e+04 / 91
p0 300.8 ± 0.2278
450
400
350
300
250

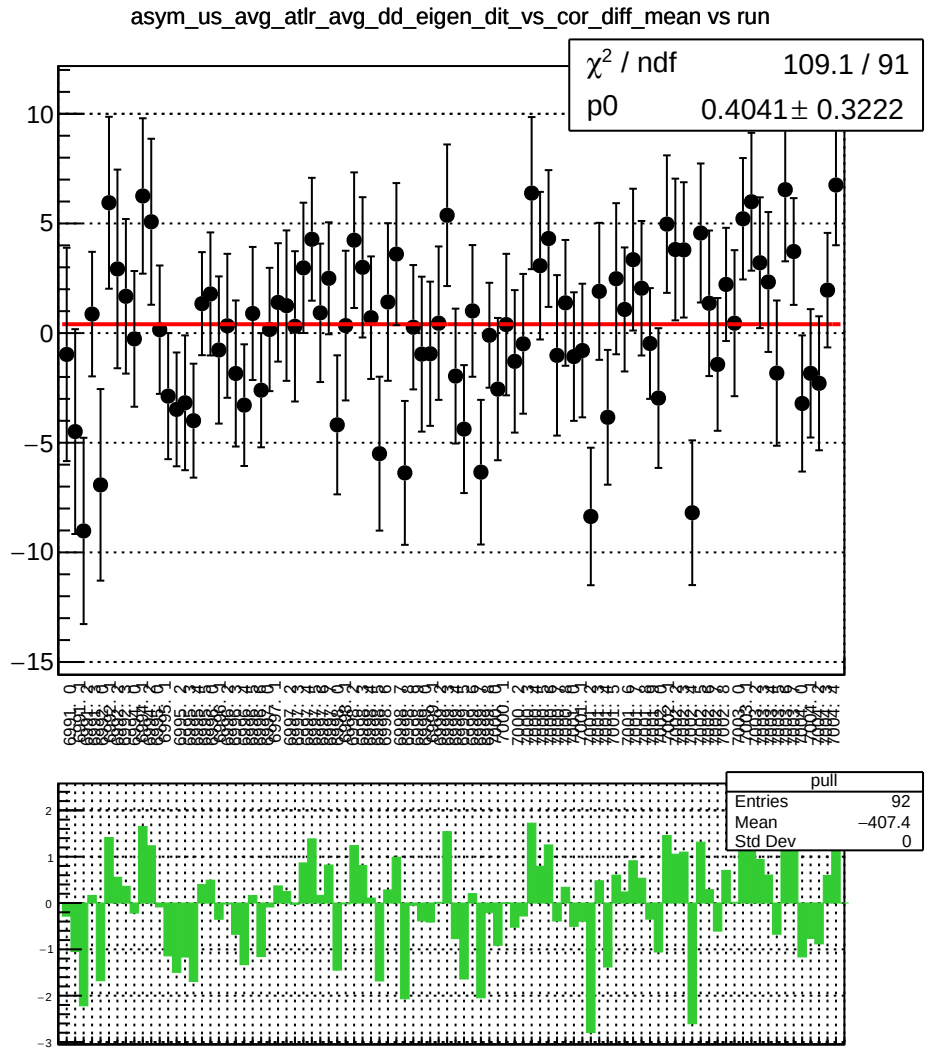

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.1 / 91
p0 0.4041± 0.3222
pull
Entries 92
Mean −407.5
Std Dev 0

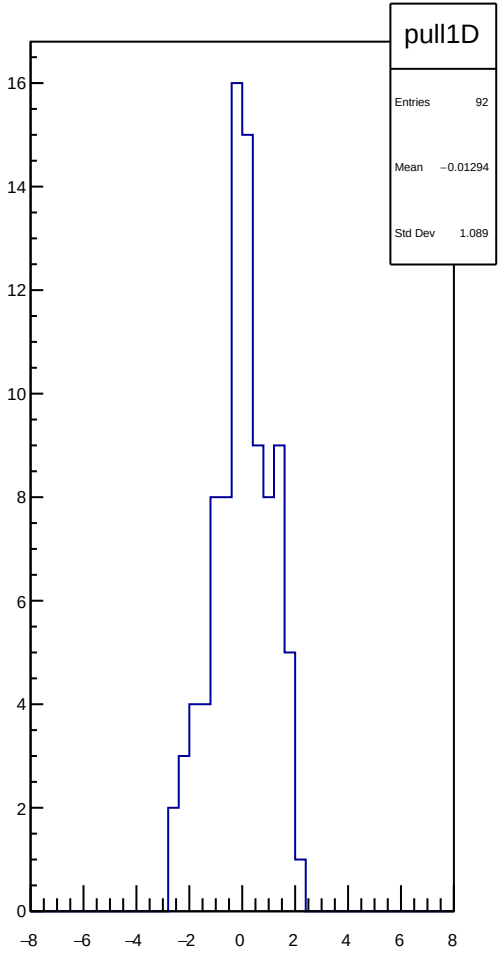

pull1D
Entries 92
Mean −0.01294
Std Dev 1.089

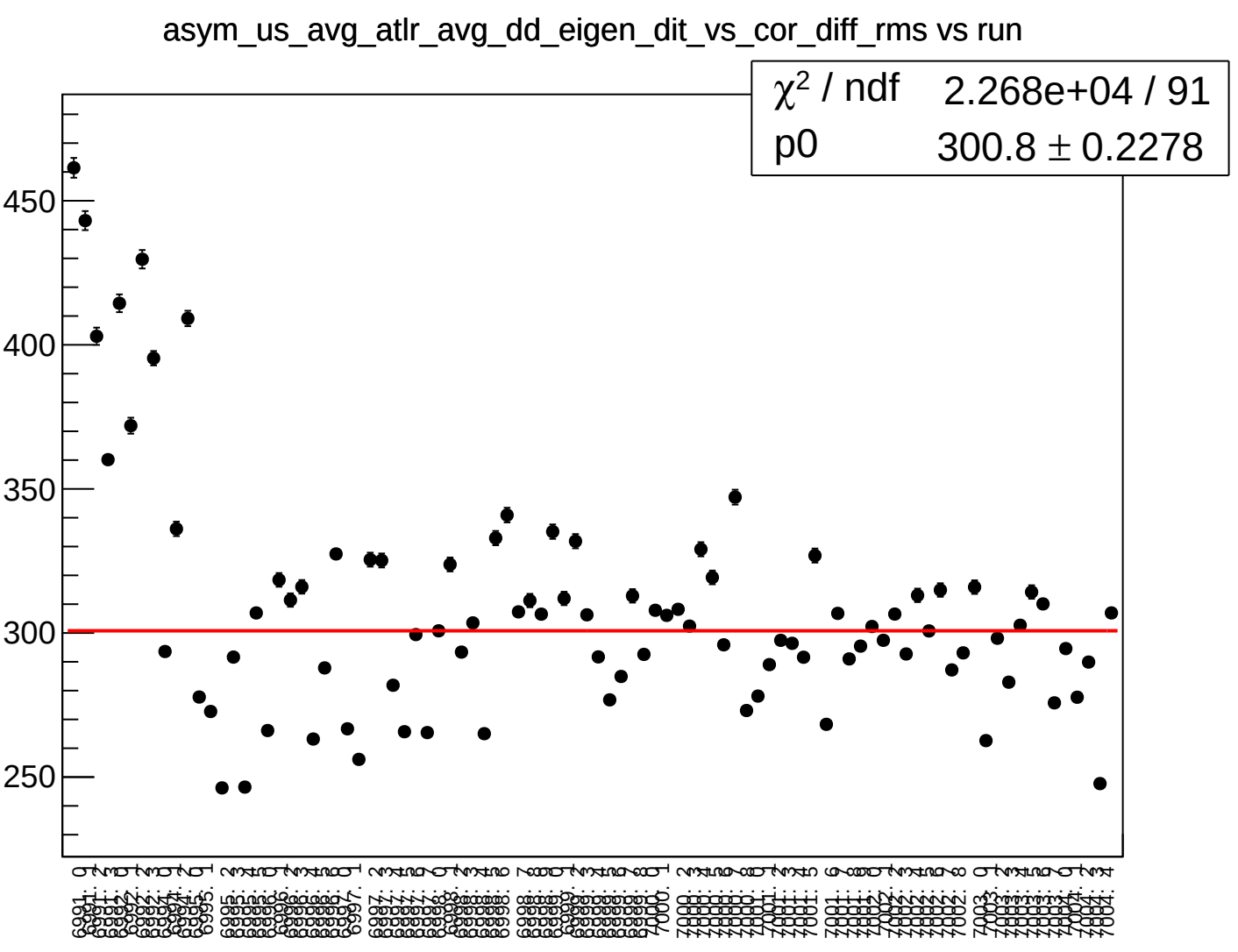

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.268e+04 / 91
p0 300.8 ± 0.2278
450
400
350
300
250

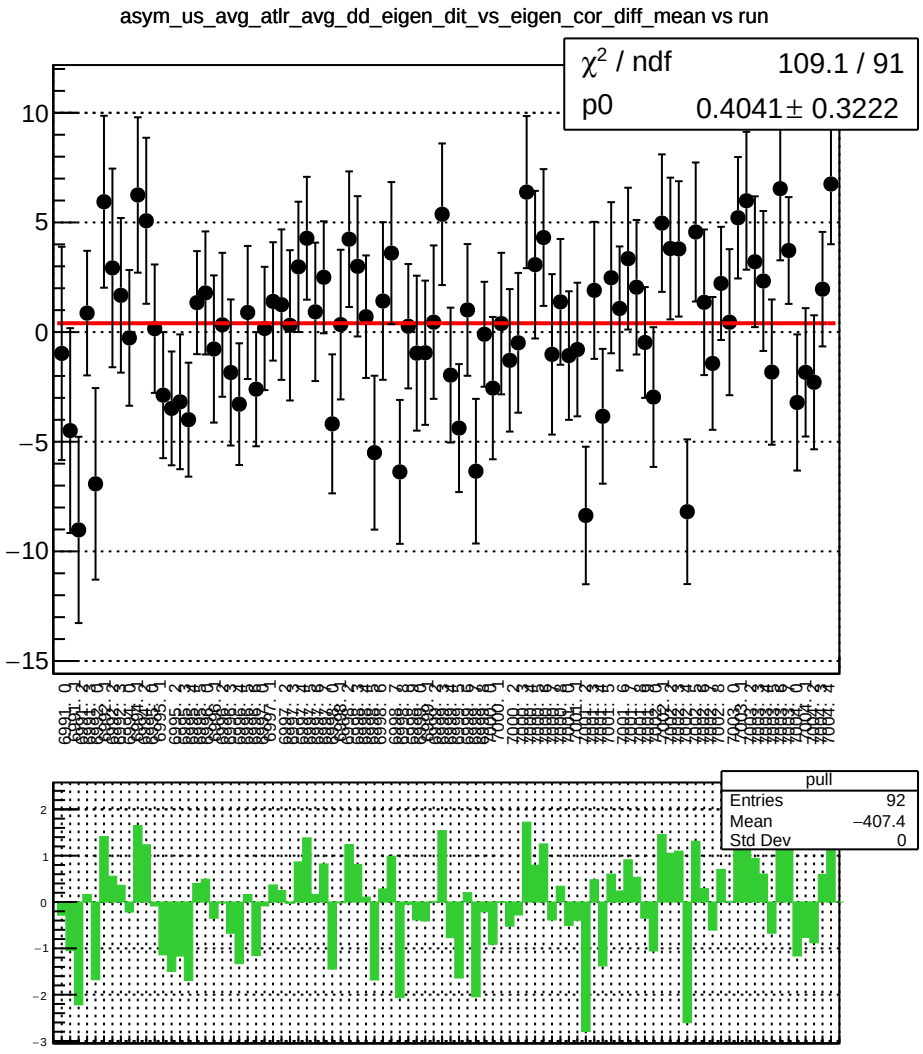

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.89 / 91
p0 −5.868e−07 ± 9.475e−06
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean 63.14
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.09271
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

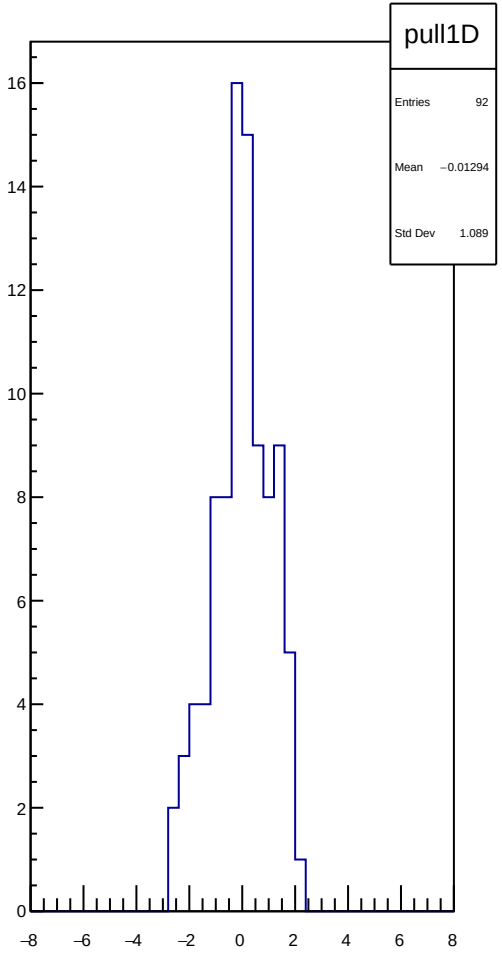

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.103e+05 / 91
p0 0.0072 ± 6.7e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

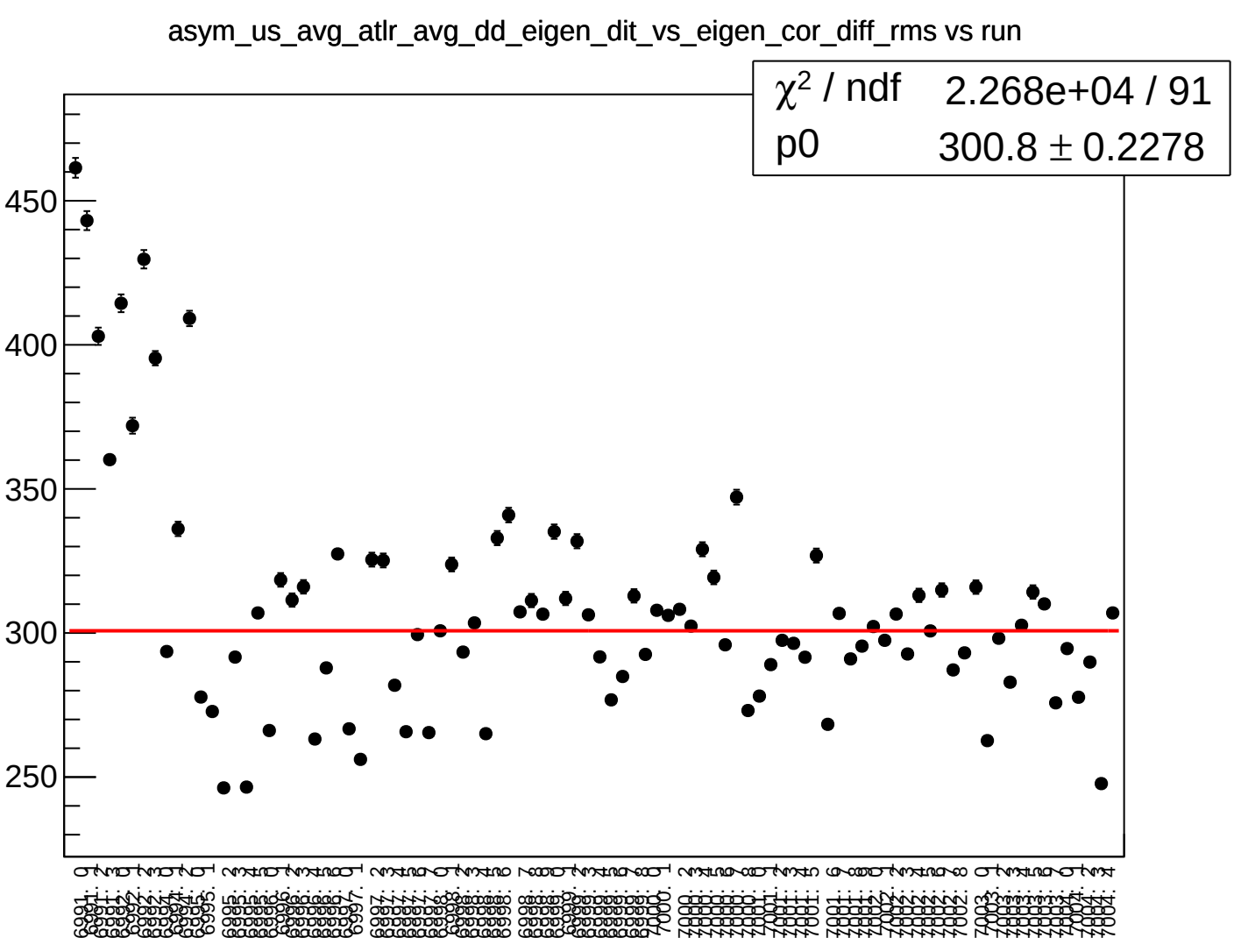

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 91
p0 0.4041± 0.3222
pull
Entries 92
Mean −407.4
Std Dev 0

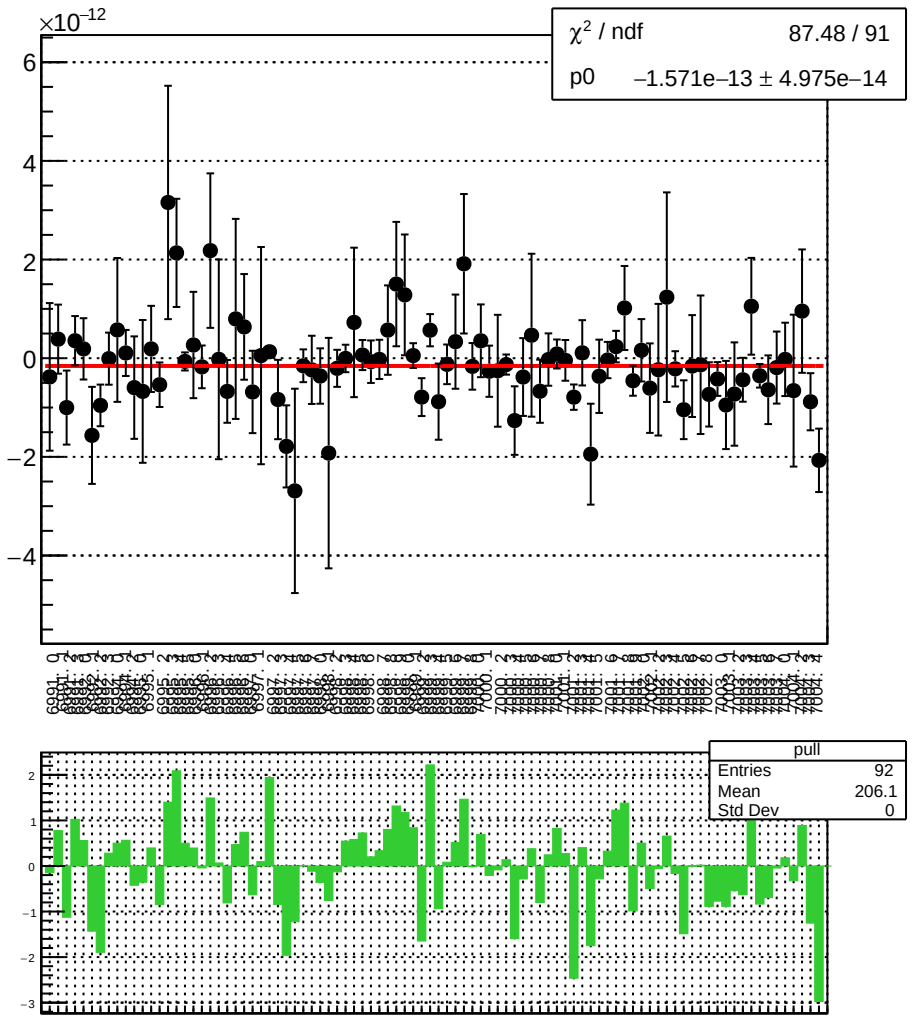

pull1D
Entries 92
Mean −0.01294
Std Dev 1.089

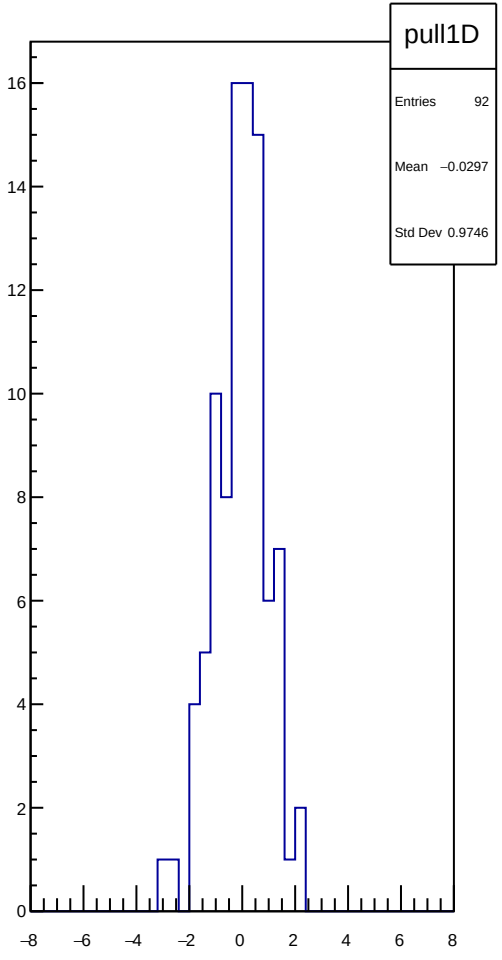

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.268e+04 / 91
p0 300.8 ± 0.2278
450
400
350
300
250

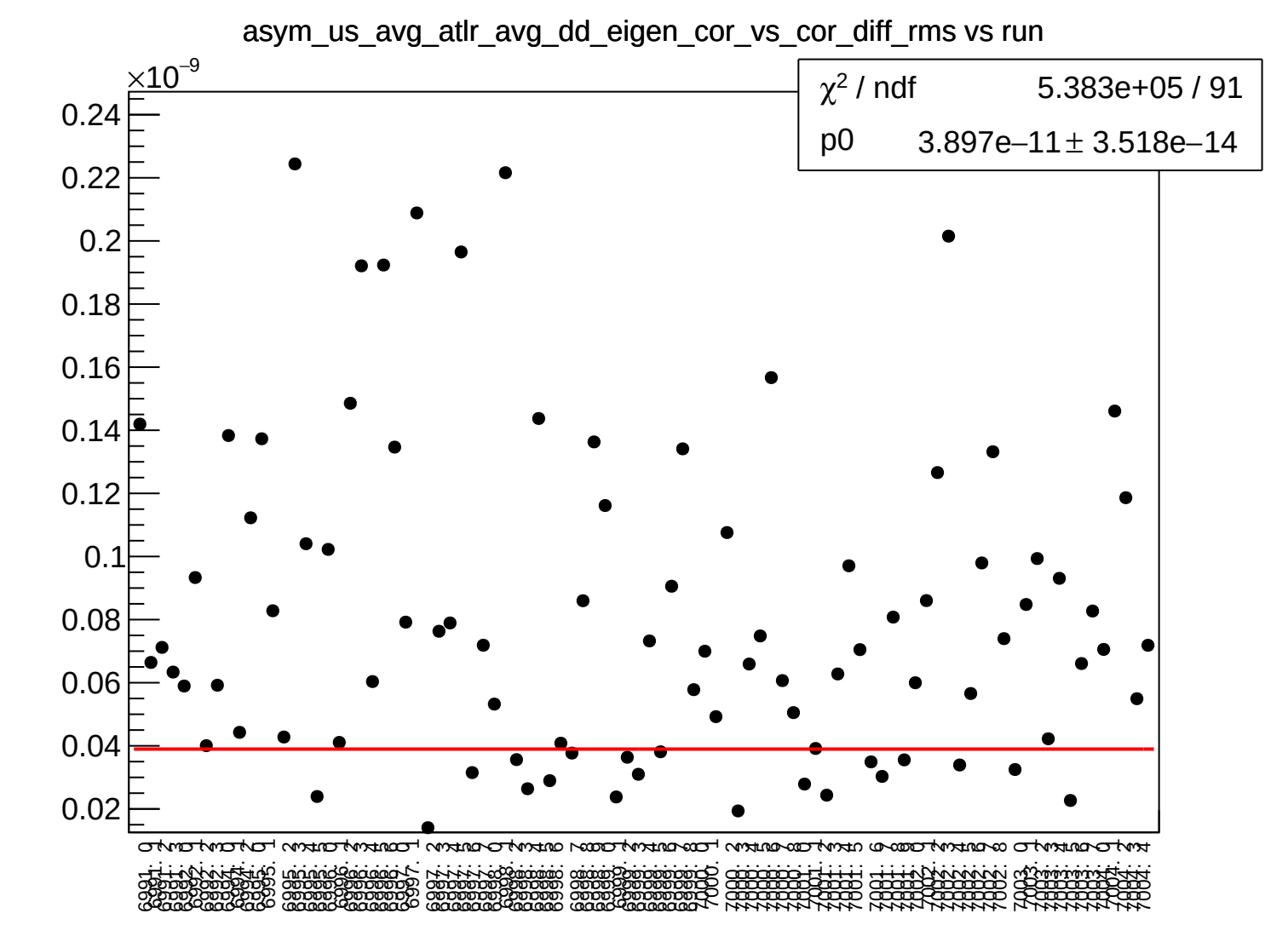

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.1 / 91
p0 0.4041± 0.3222
pull
Entries 92
Mean −407.4
Std Dev 0

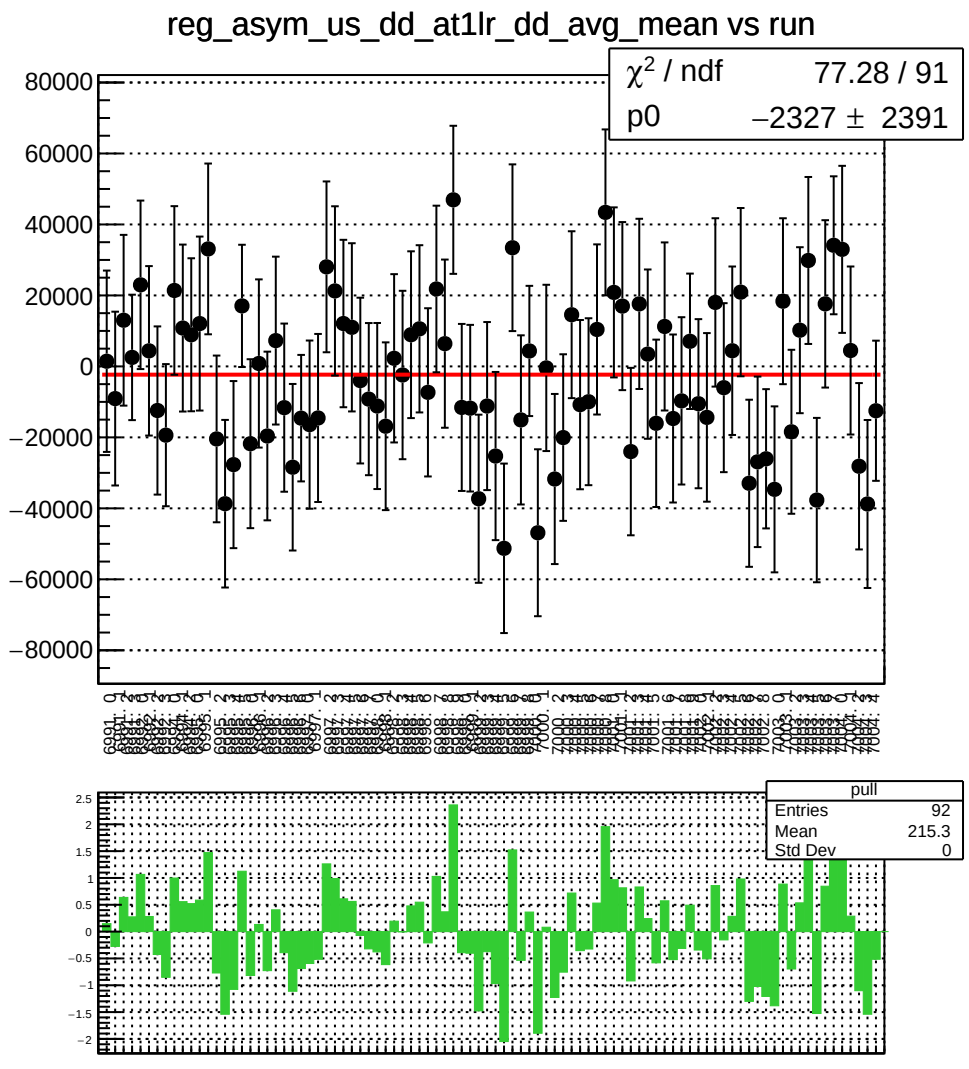

pull1D
Entries 92
Mean −0.01294
Std Dev 1.089

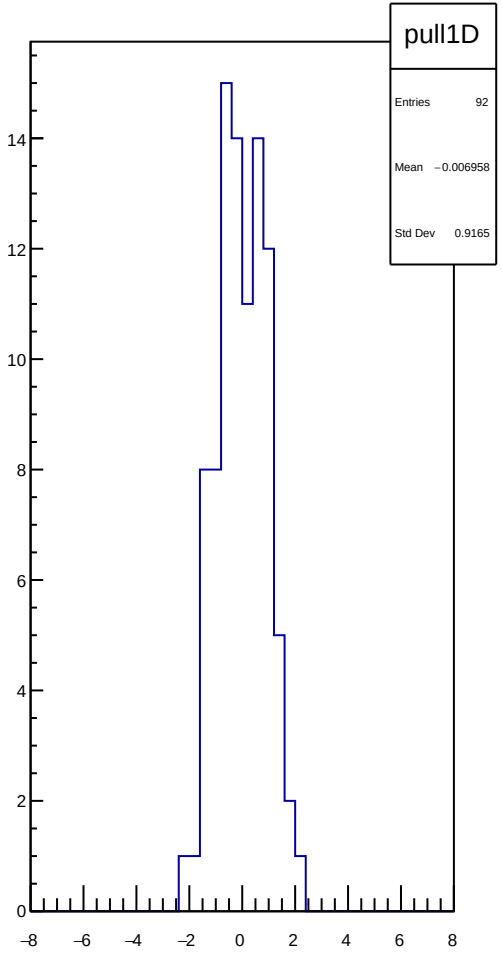

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.268e+04 / 91
p0 300.8 ± 0.2278
450
400
350
300
250

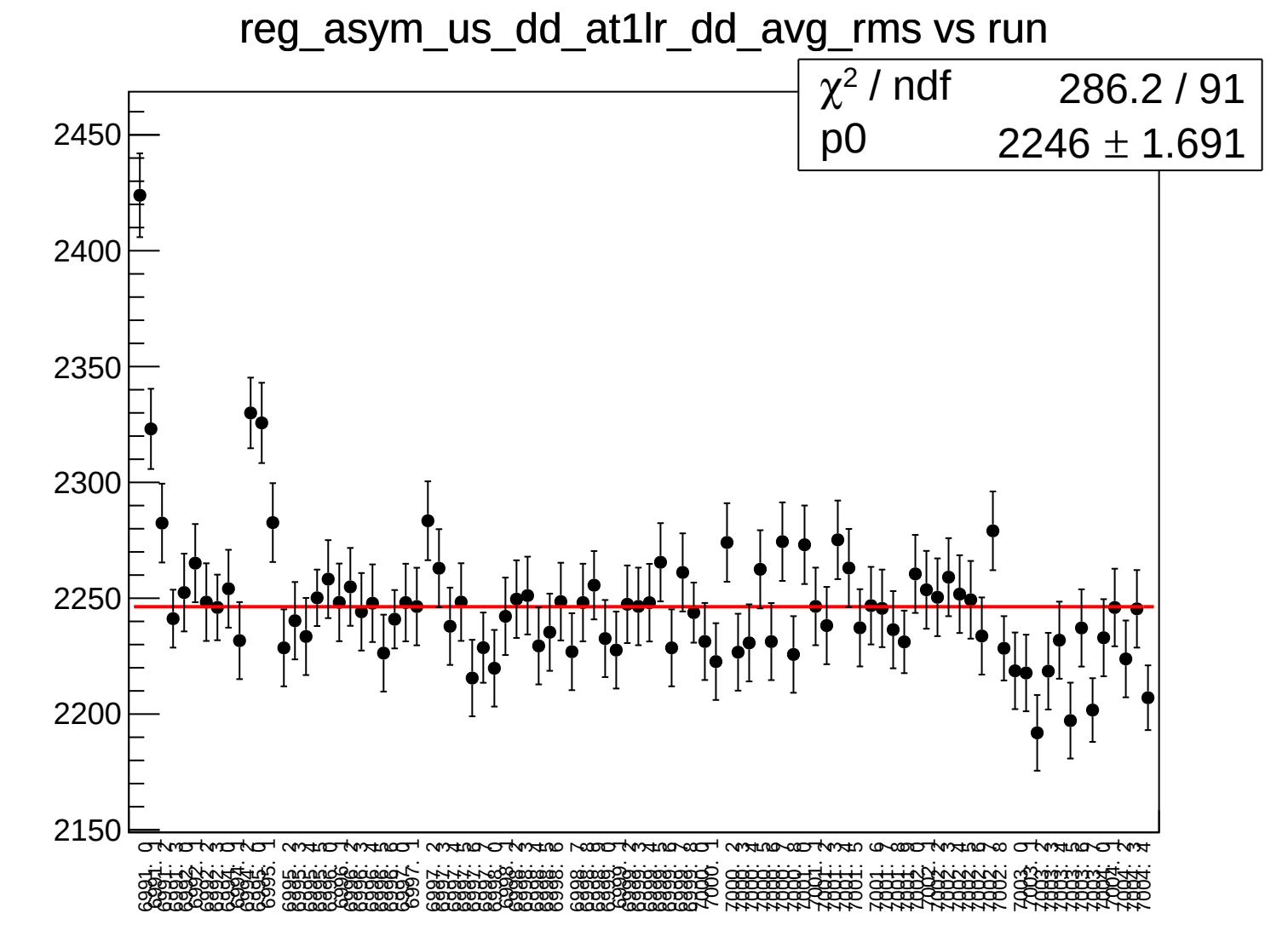

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.48 / 91
p0 −1.571e−13 ± 4.975e−14
pull
Entries 92
Mean 206.1
Std Dev 0

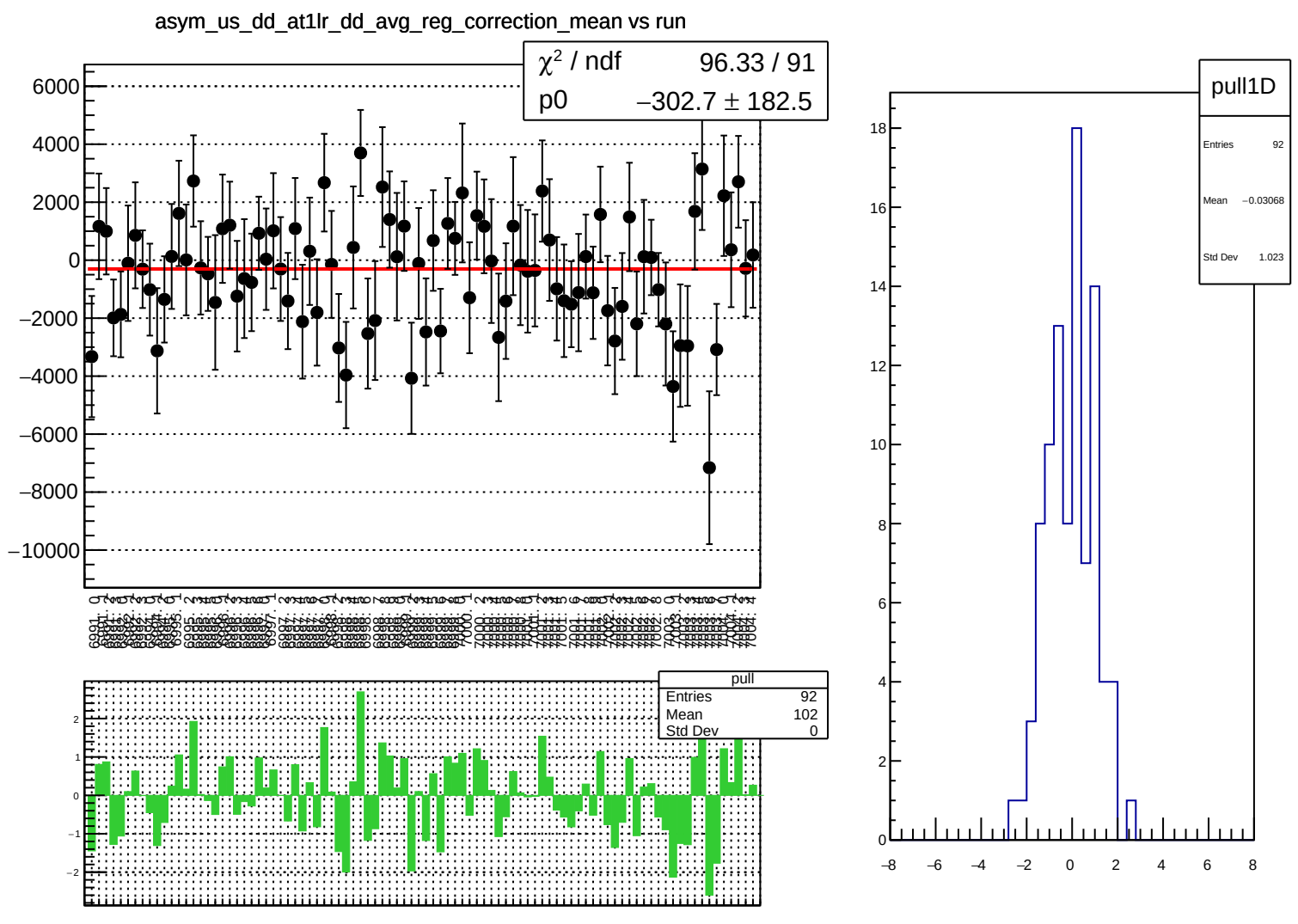

pull1D
Entries 92
Mean −0.0297
Std Dev 0.9746

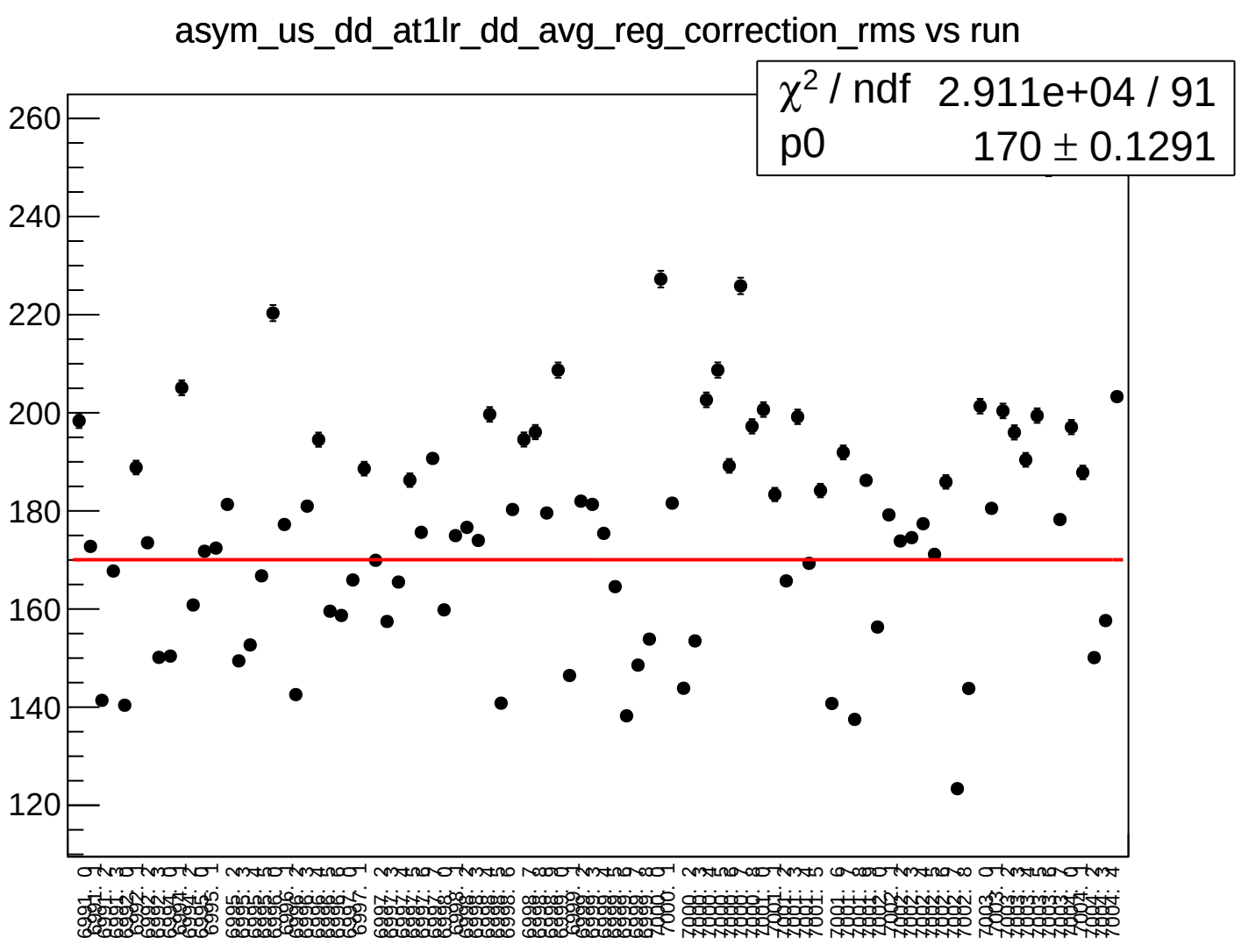

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.383e+05 / 91
p0 3.897e−11 ± 3.518e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

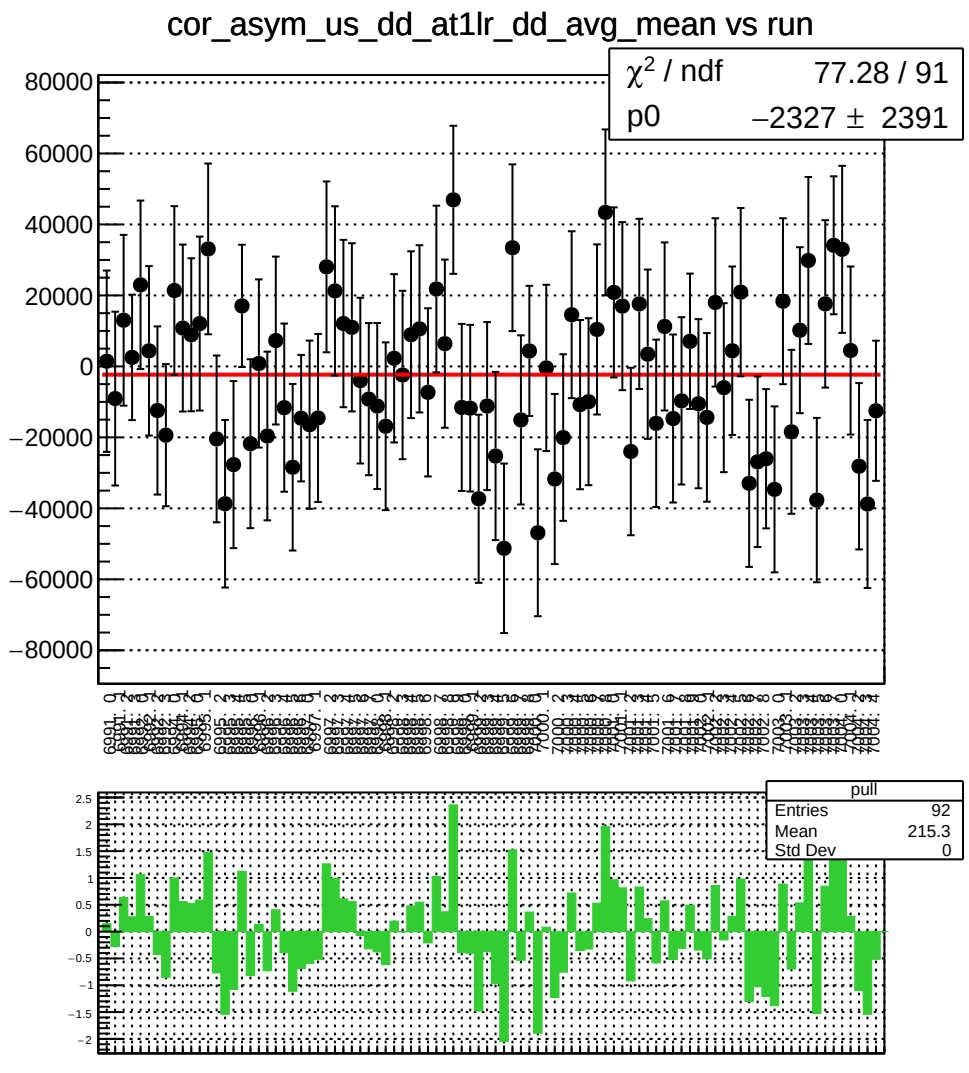

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 77.28 / 91
p0 −2327 ± 2391
pull
Entries 92
Mean 215.3
Std Dev 0

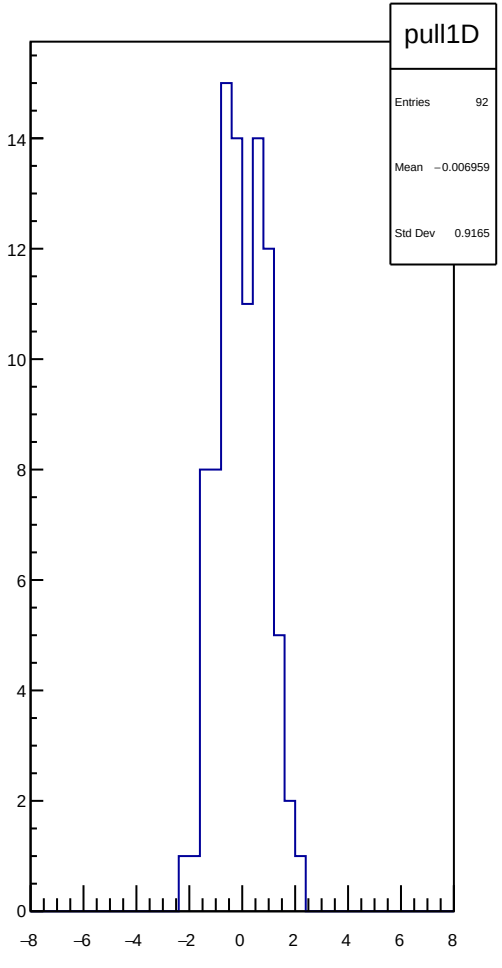

pull1D
Entries 92
Mean −0.006958
Std Dev 0.9165

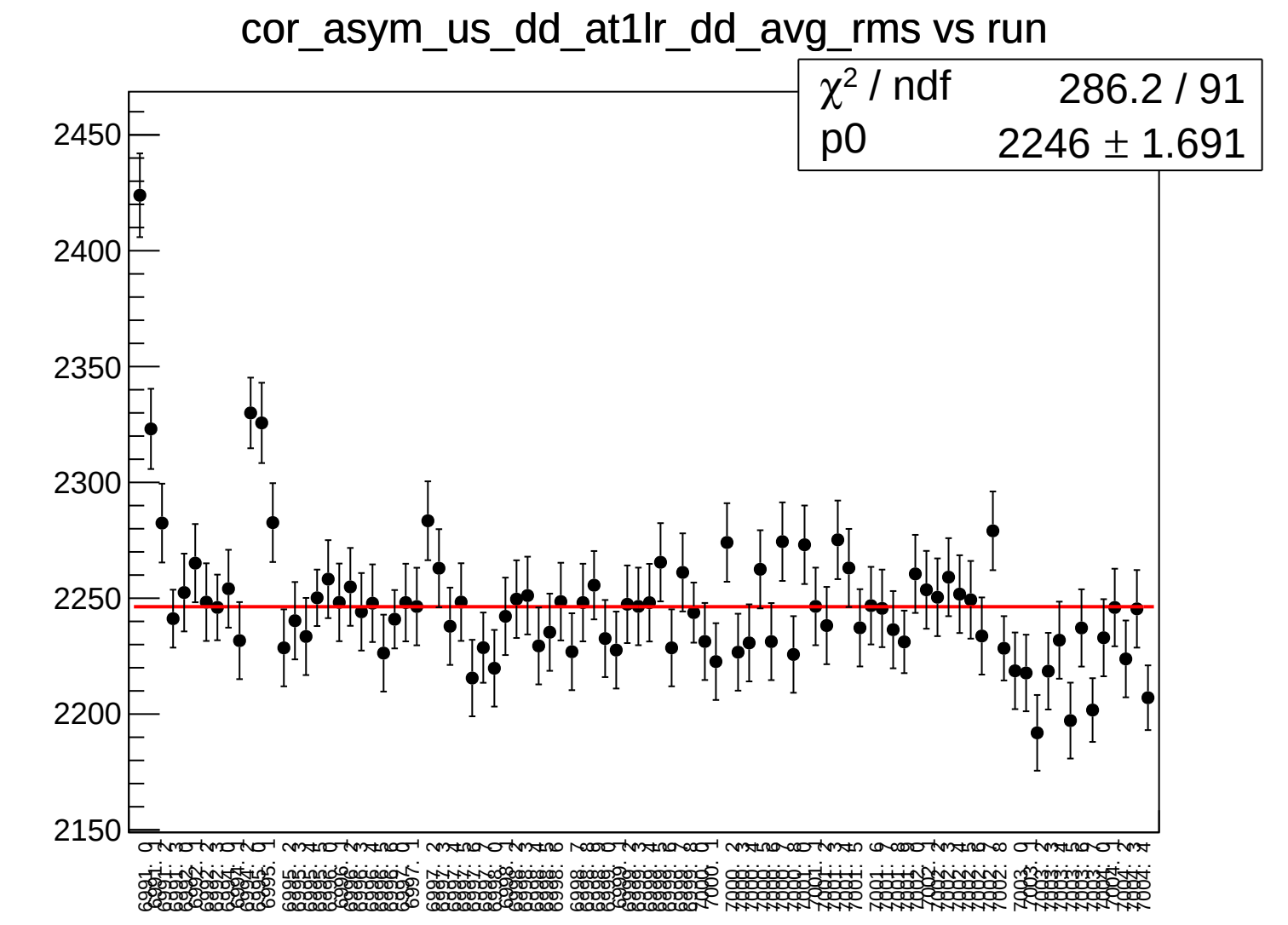

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 286.2 / 91
p0 2246 ± 1.691
2450
2400
2350
2300
2250
2200
2150

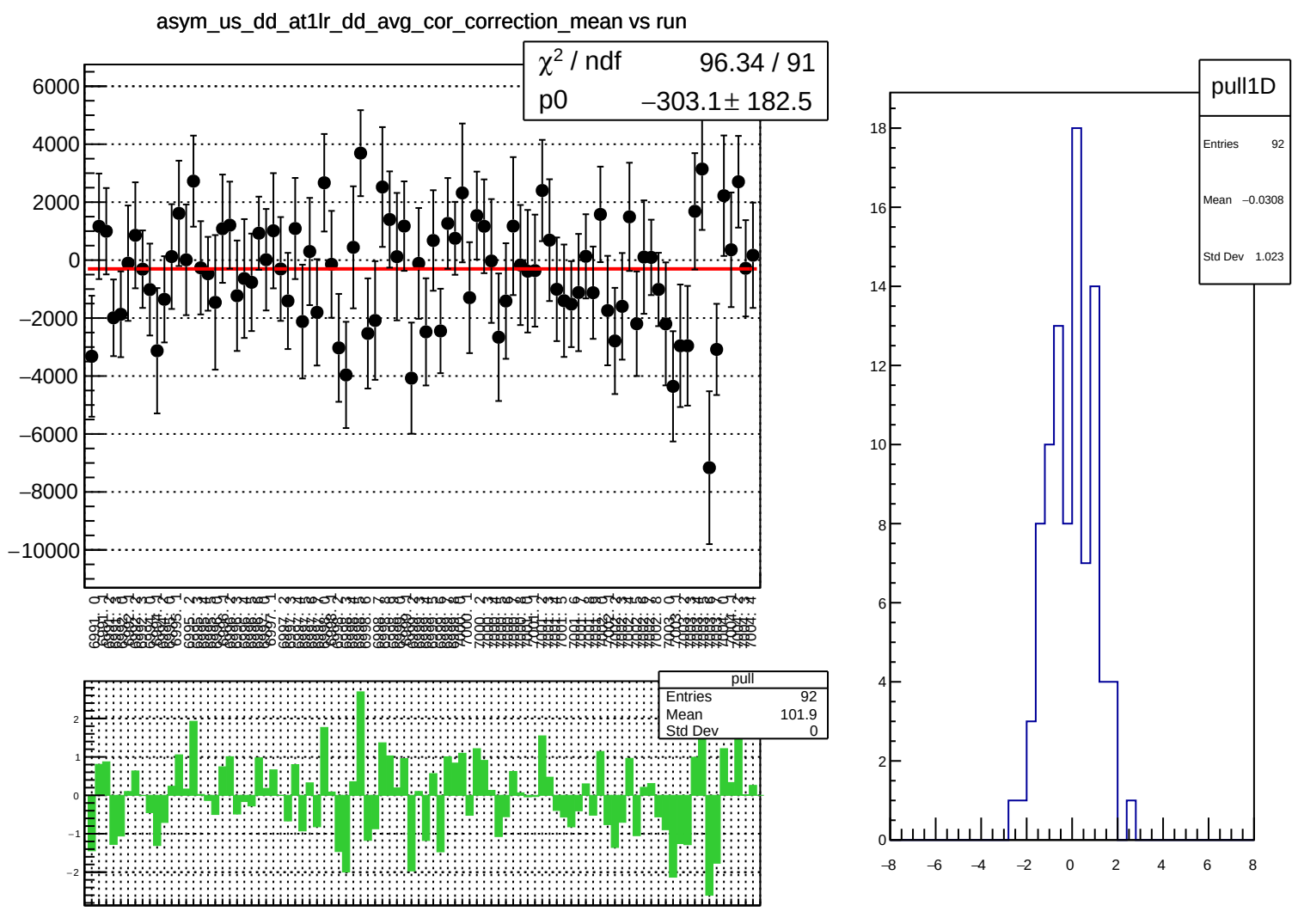

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 96.33 / 91
p0 −302.7 ± 182.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 92
Mean 102
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.03068
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

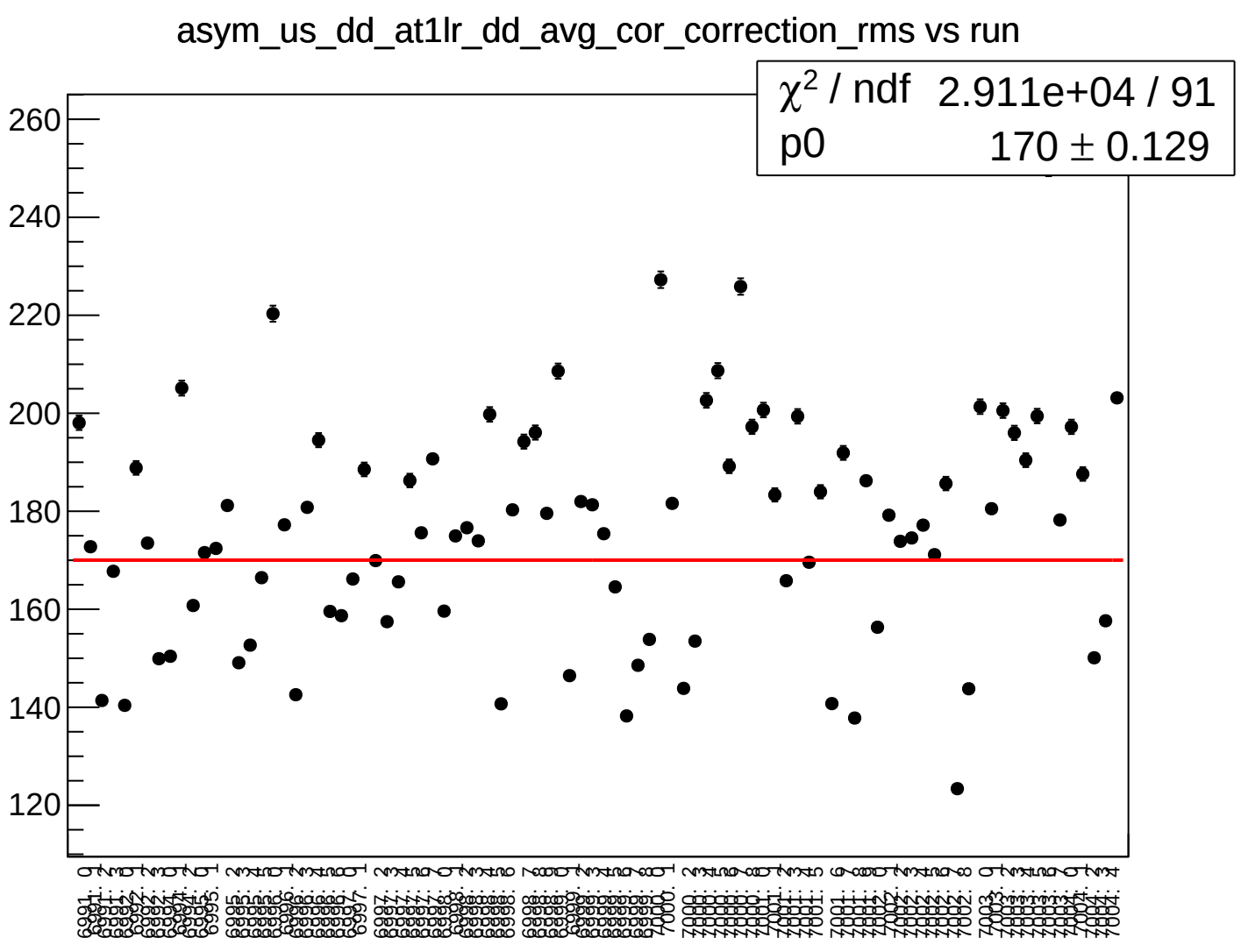

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 2.911e+04 / 91
p0 170 ± 0.1291
260
240
220
200
180
160
140
120

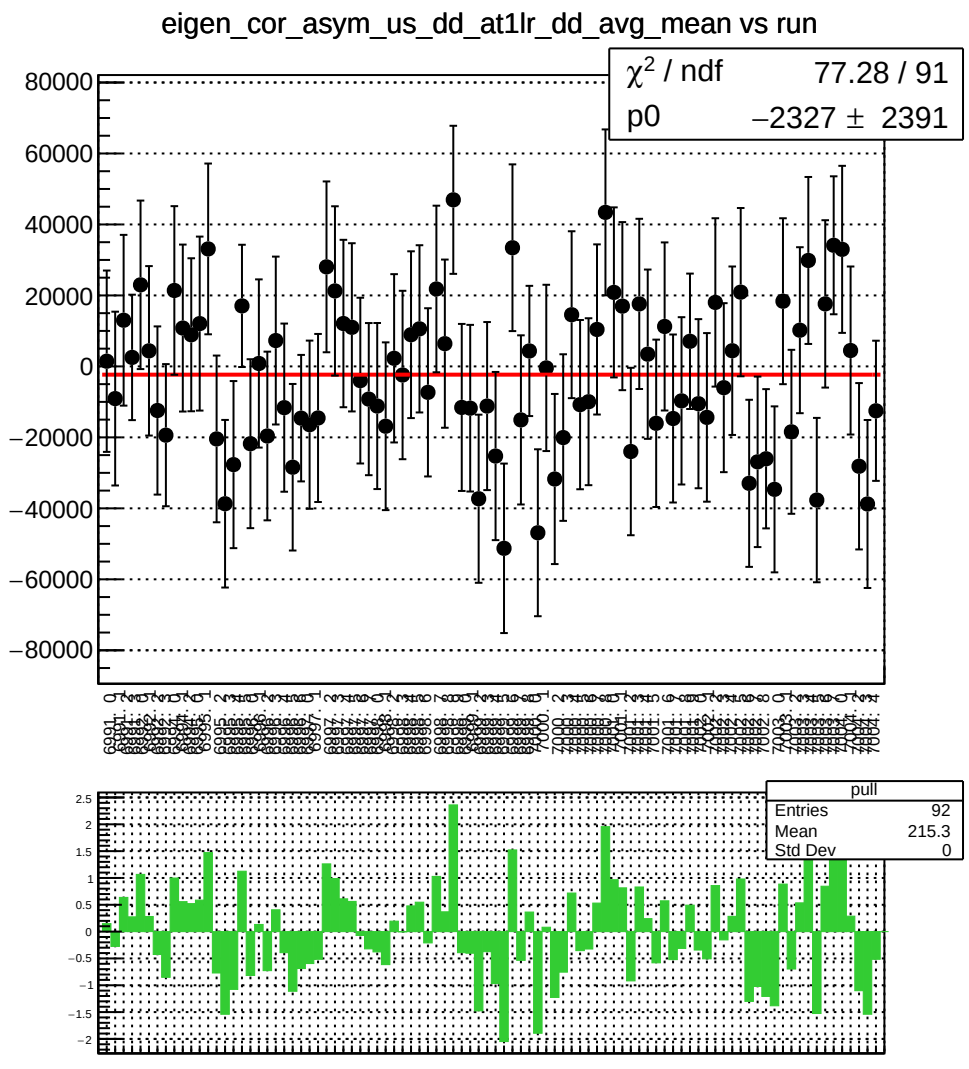

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 77.28 / 91
p0 −2327 ± 2391
pull
Entries 92
Mean 215.3
Std Dev 0

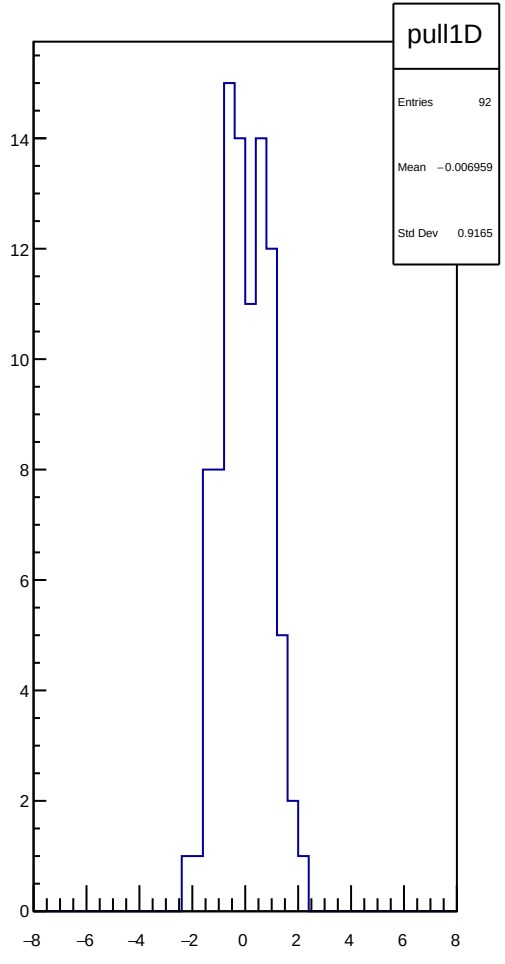

pull1D
Entries 92
Mean −0.006959
Std Dev 0.9165

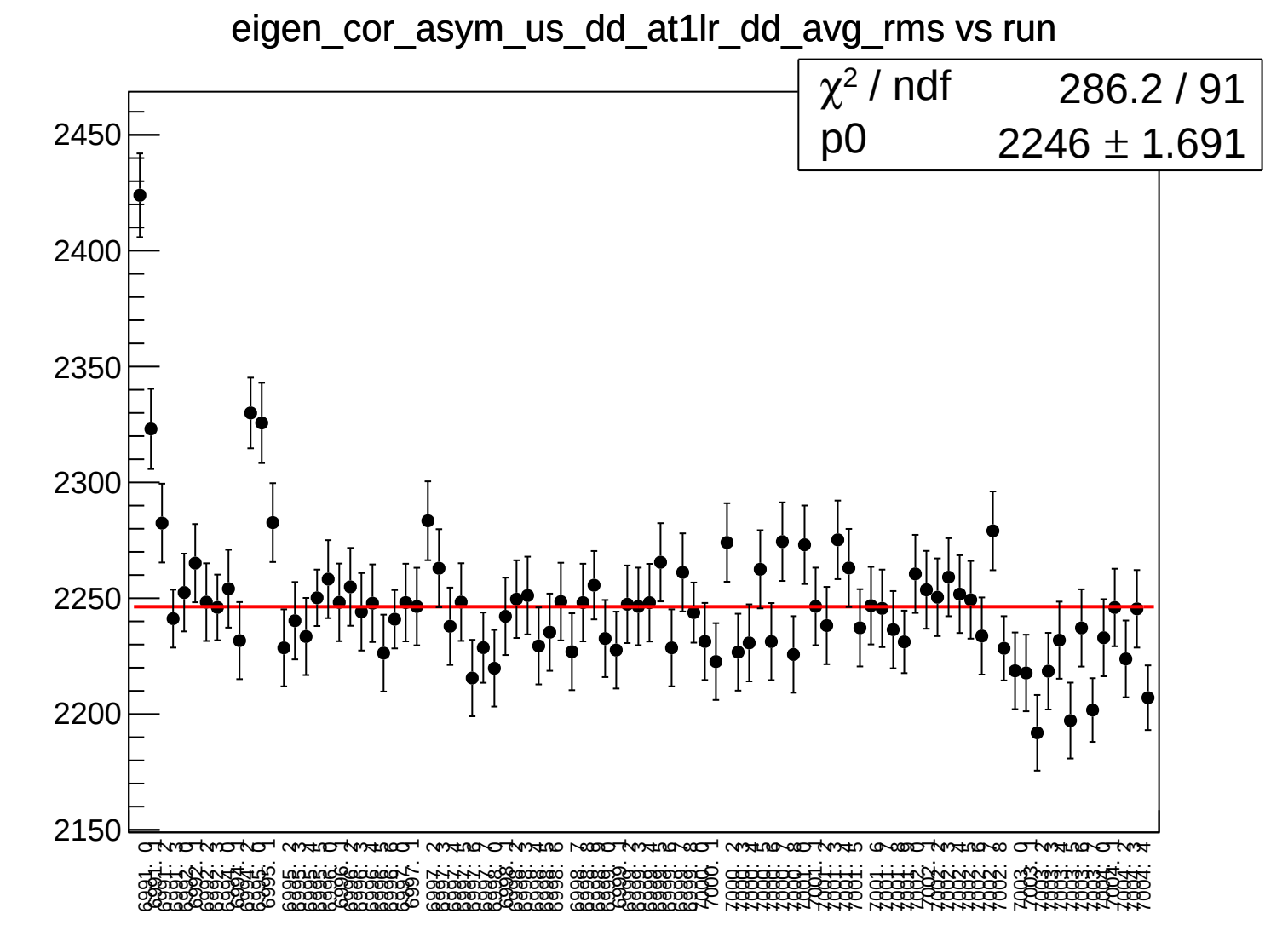

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 286.2 / 91
p0 2246 ± 1.691
2450
2400
2350
2300
2250
2200
2150

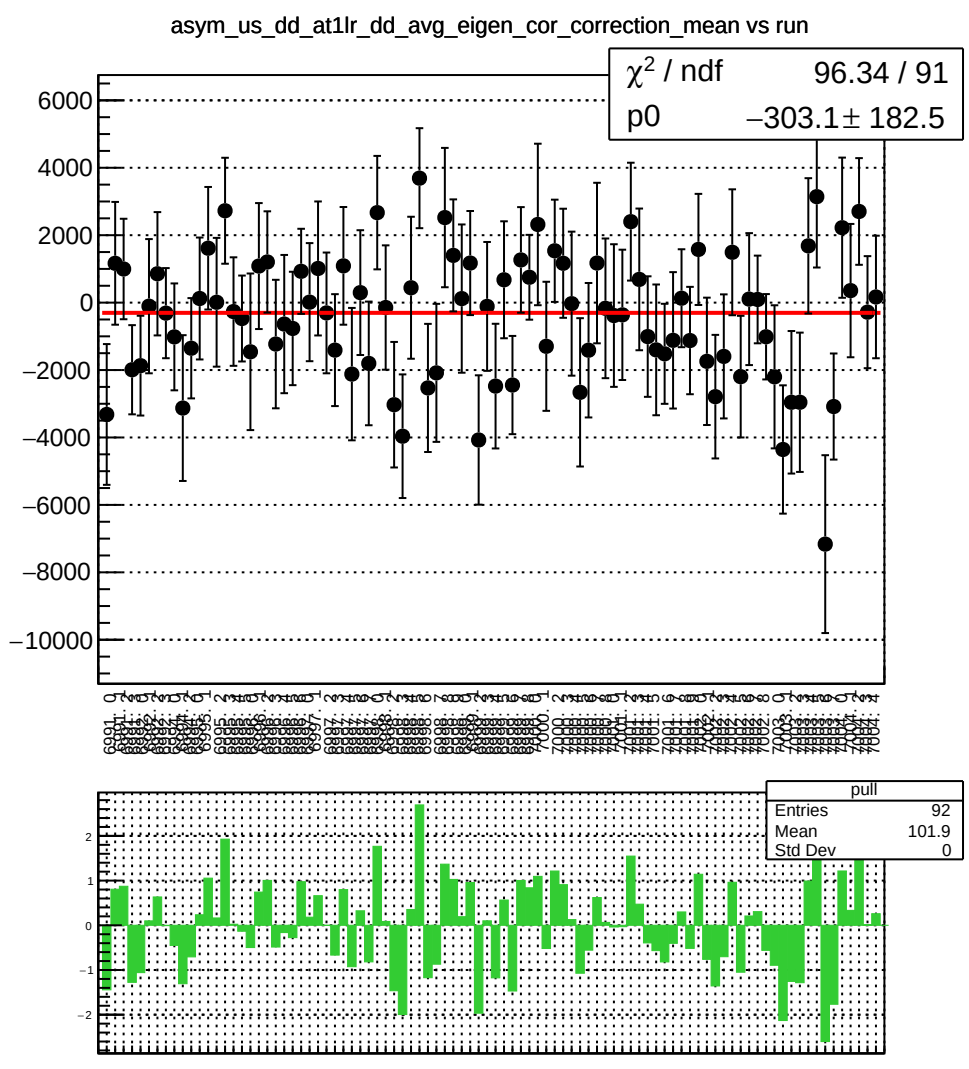

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 96.34 / 91
p0 −303.1± 182.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 92
Mean 101.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0308
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

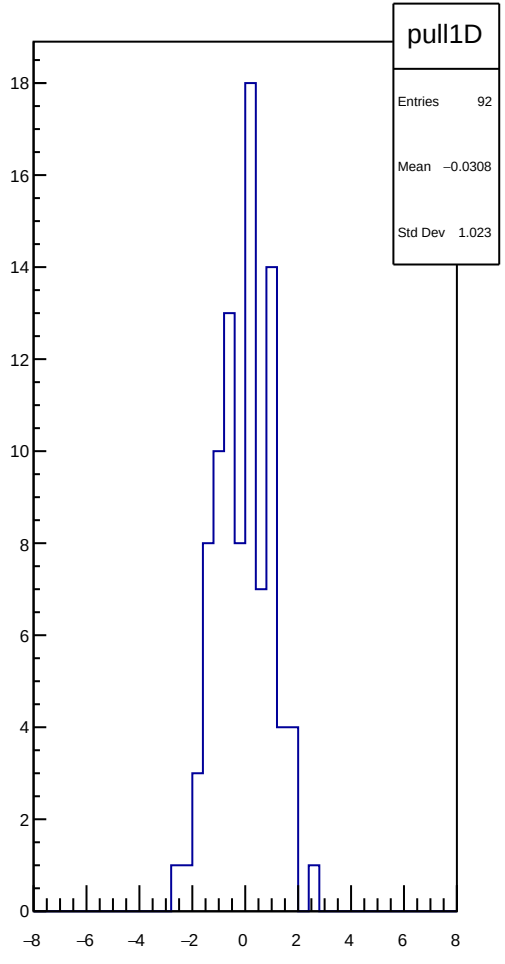

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.911e+04 / 91
p0 170 ± 0.129
260
240
220
200
180
160
140
120


eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 77.28 / 91
p0 −2327 ± 2391
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 215.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 92
Mean −0.006959
Std Dev 0.9165
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 286.2 / 91
p0 2246 ± 1.691
2450
2400
2350
2300
2250
2200
2150


asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.34 / 91
p0 −303.1± 182.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 92
Mean 101.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean −0.0308
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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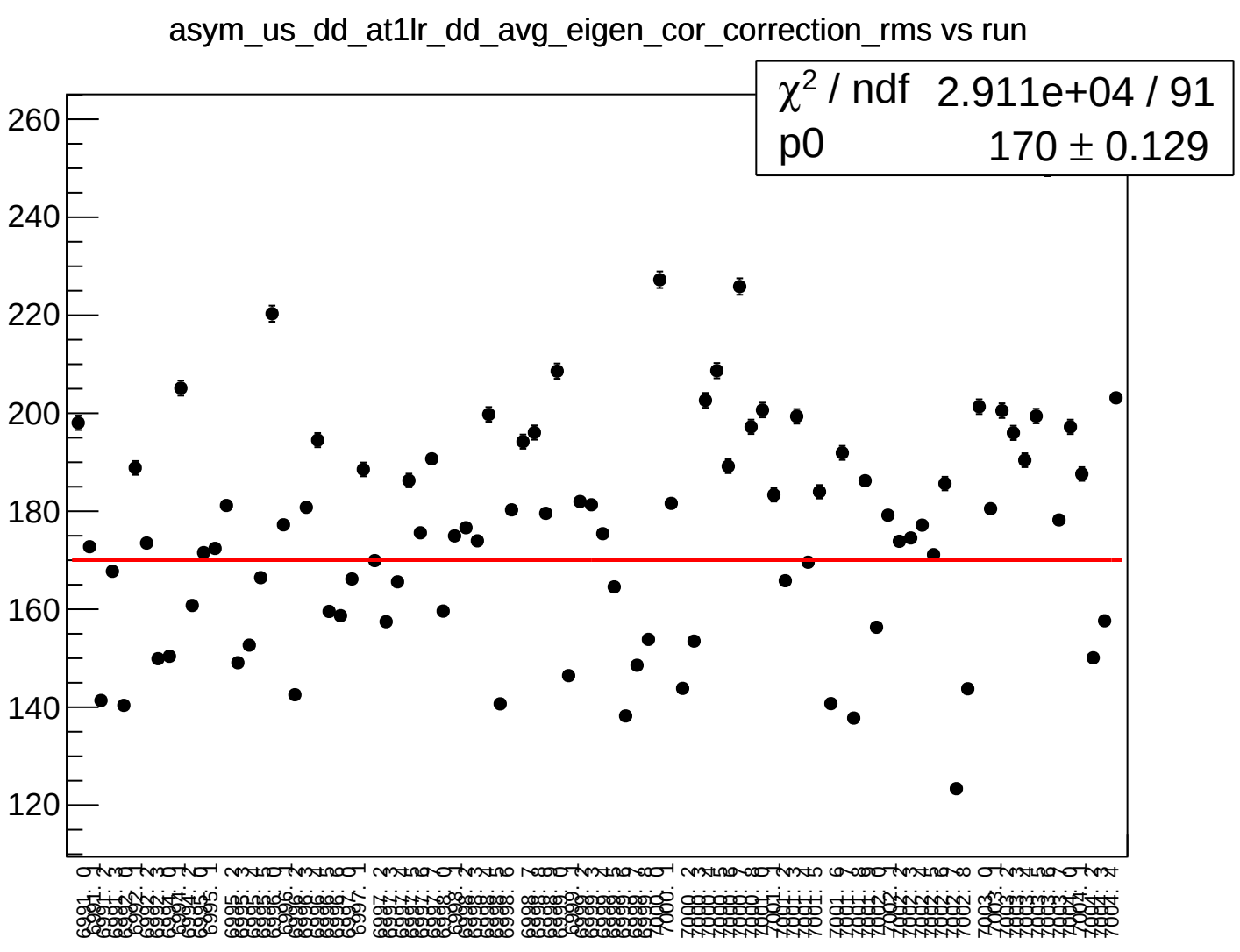
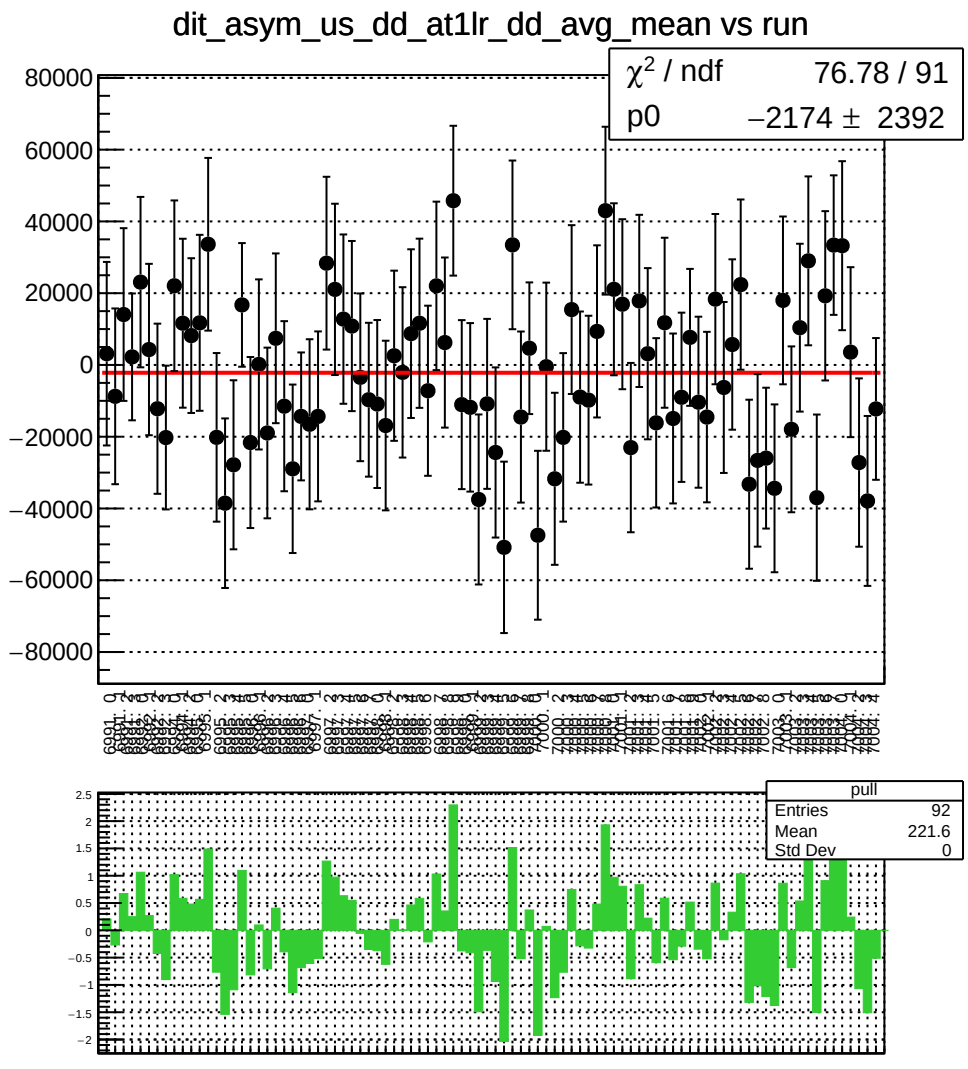
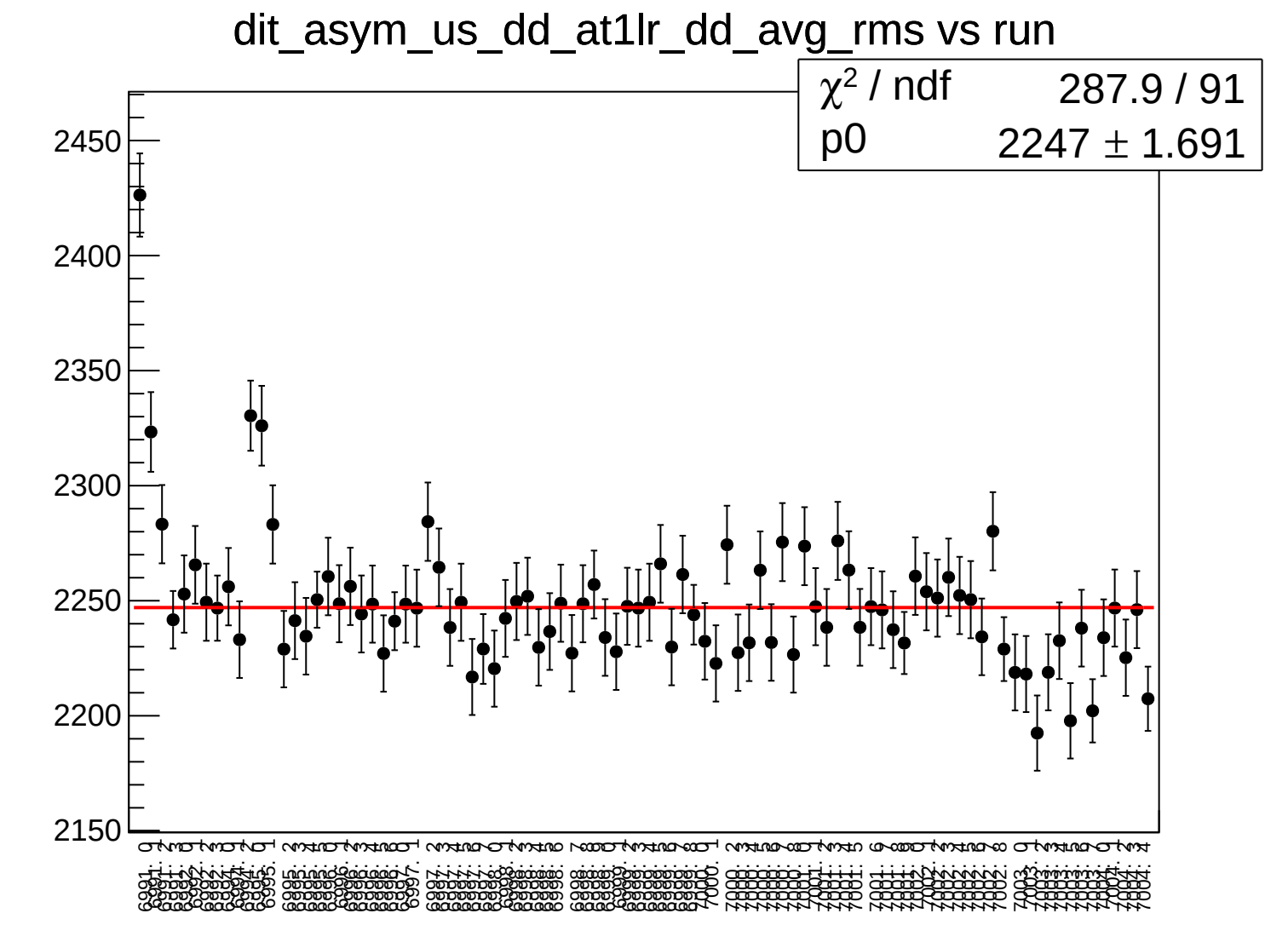
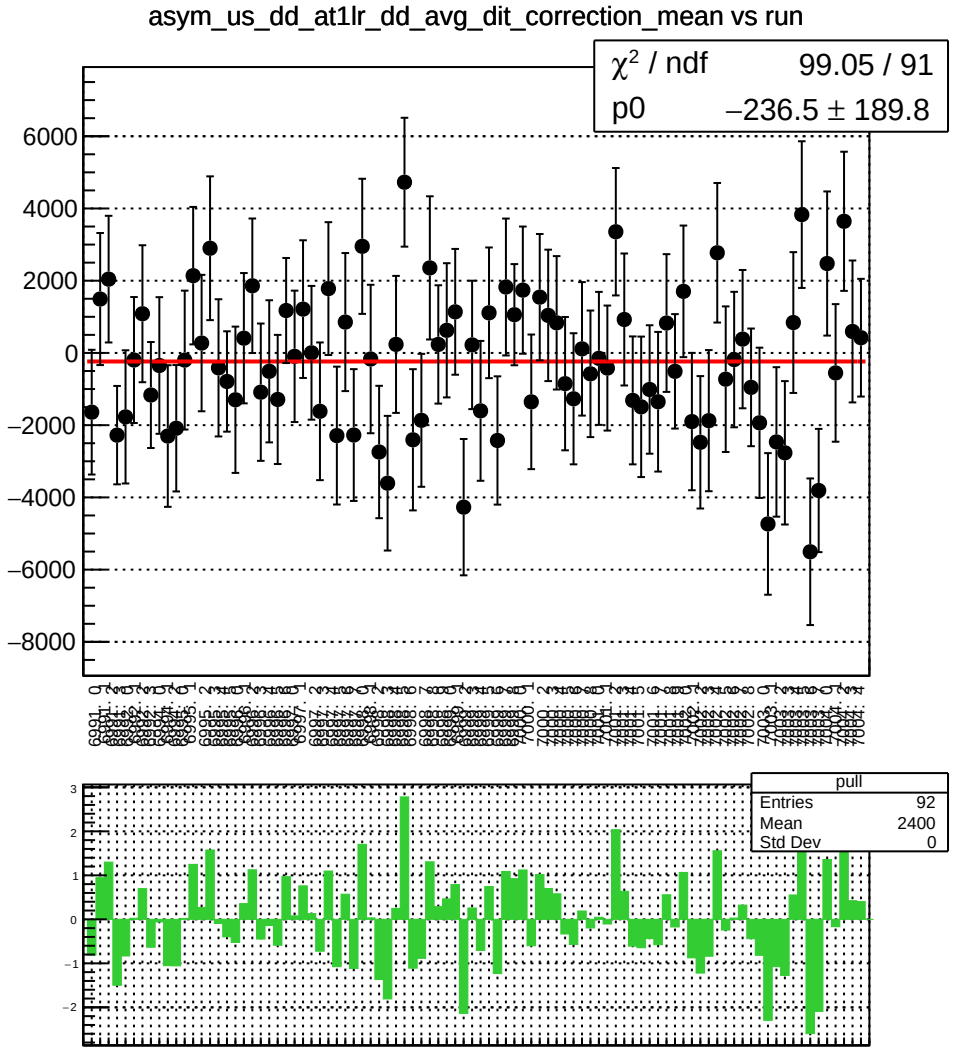
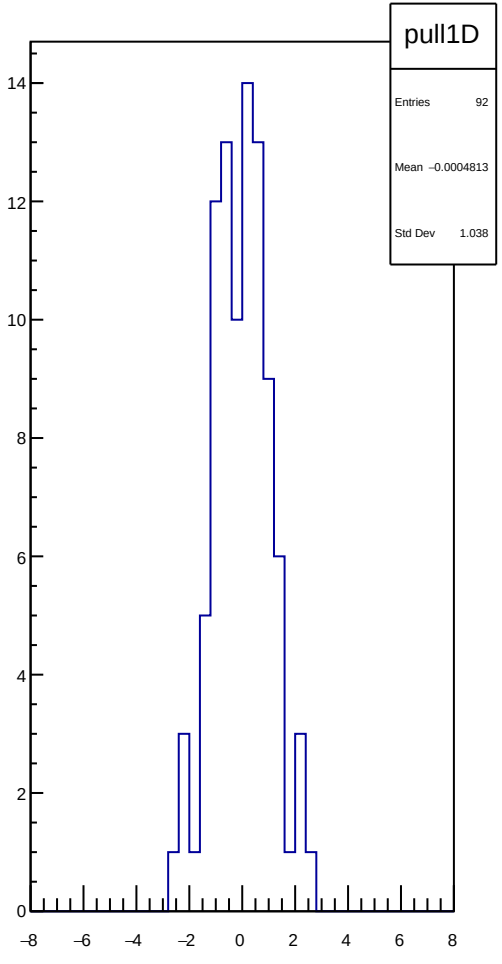
0
2
4
6
8

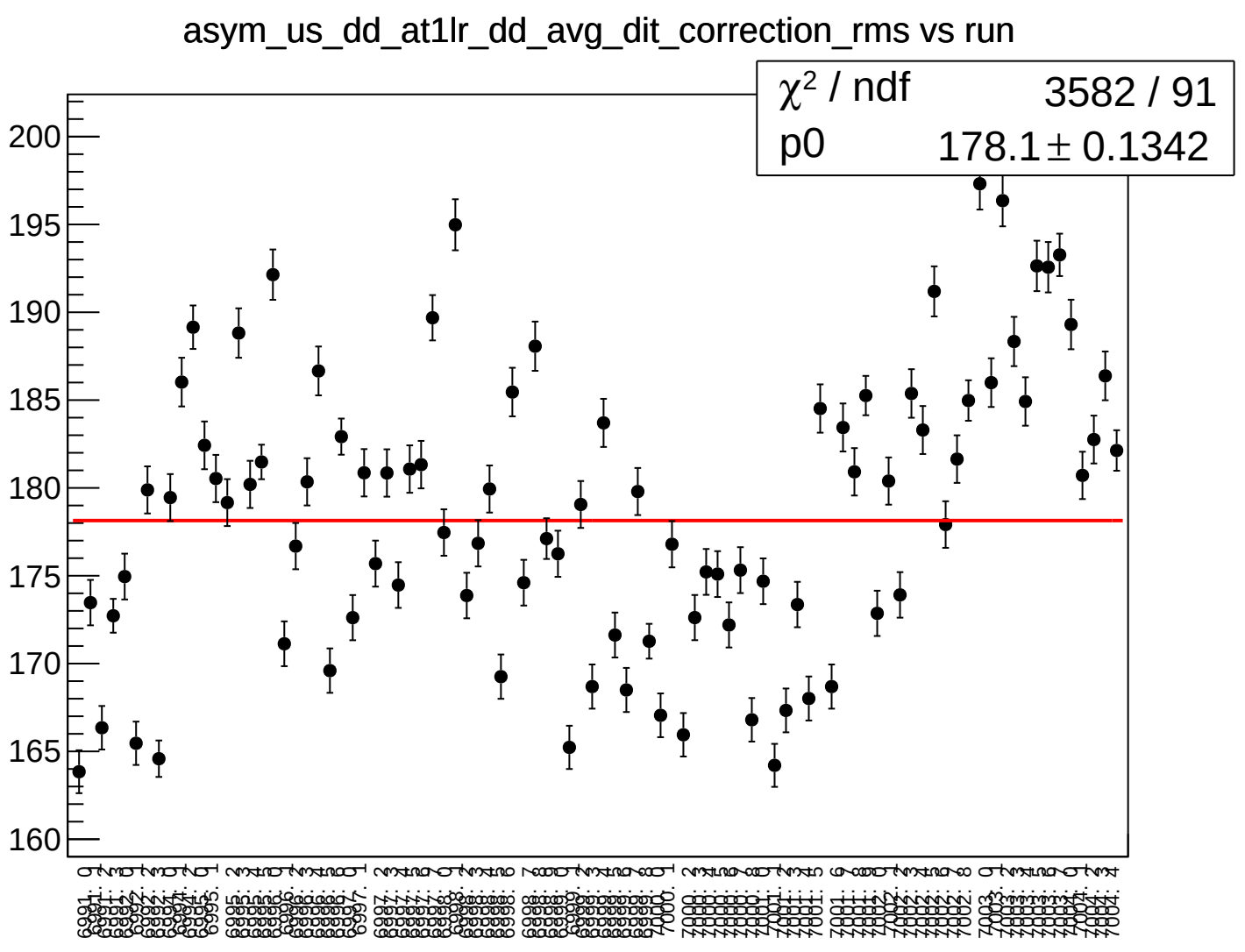

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.911e+04 / 91
p0 170 ± 0.129
260
240
220
200
180
160
140
120

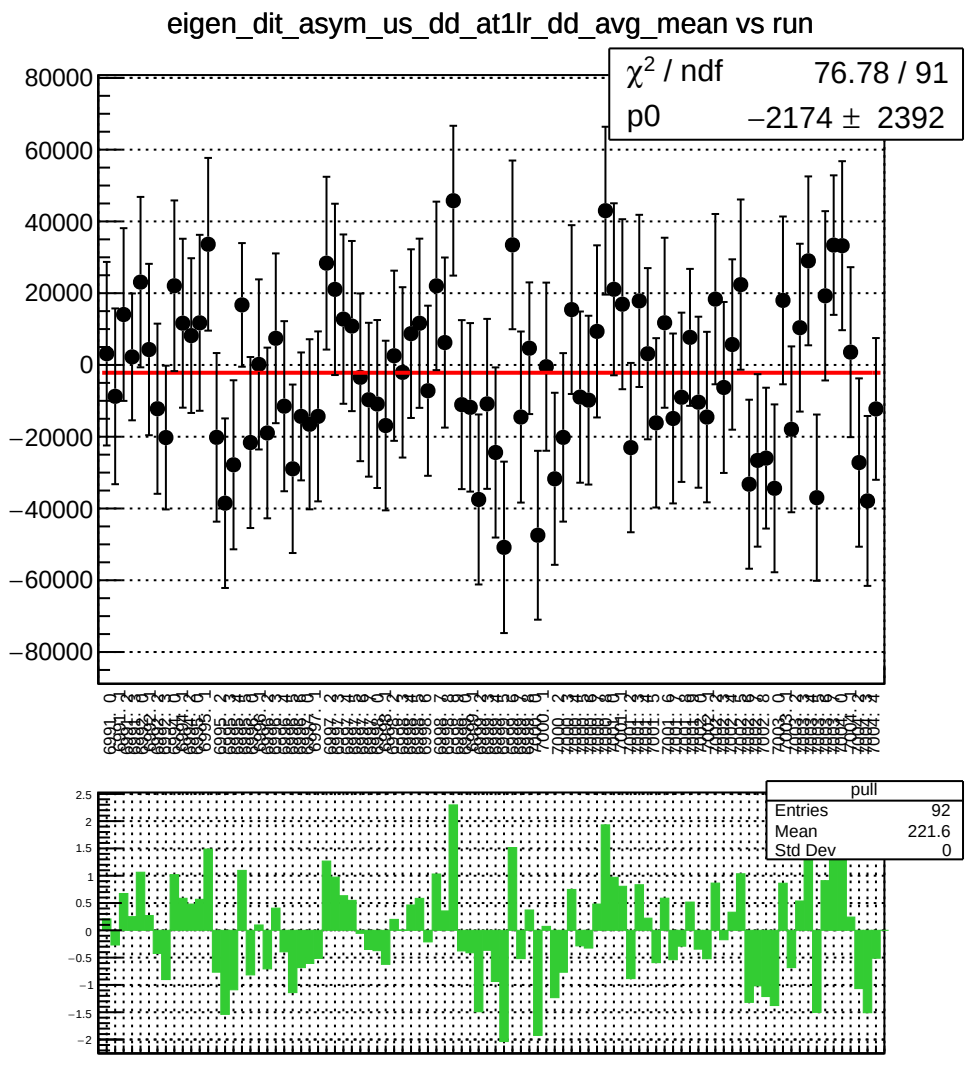

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 76.78 / 91
p0 −2174 ± 2392
pull
Entries 92
Mean 221.6
Std Dev 0
pull1D
Entries 92
Mean −0.006422
Std Dev 0.9135

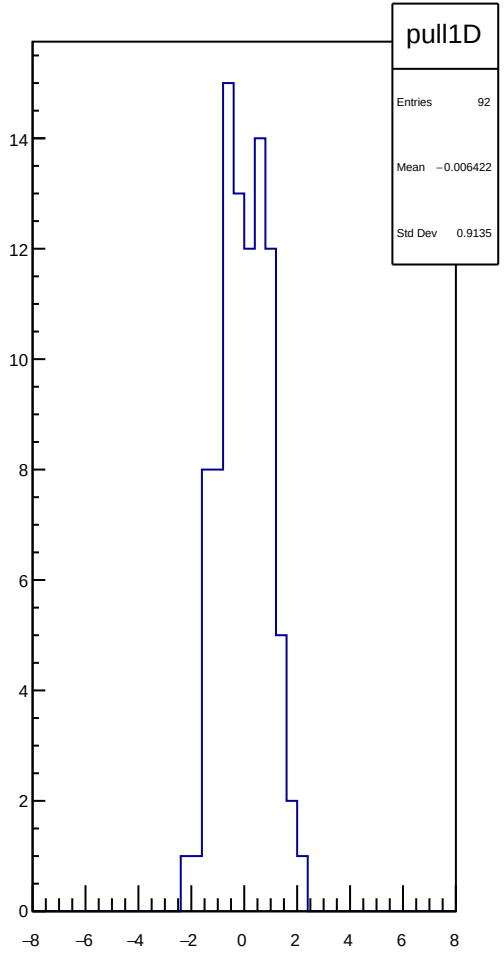

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 287.9 / 91
p0 2247 ± 1.691
2450
2400
2350
2300
2250
2200
2150

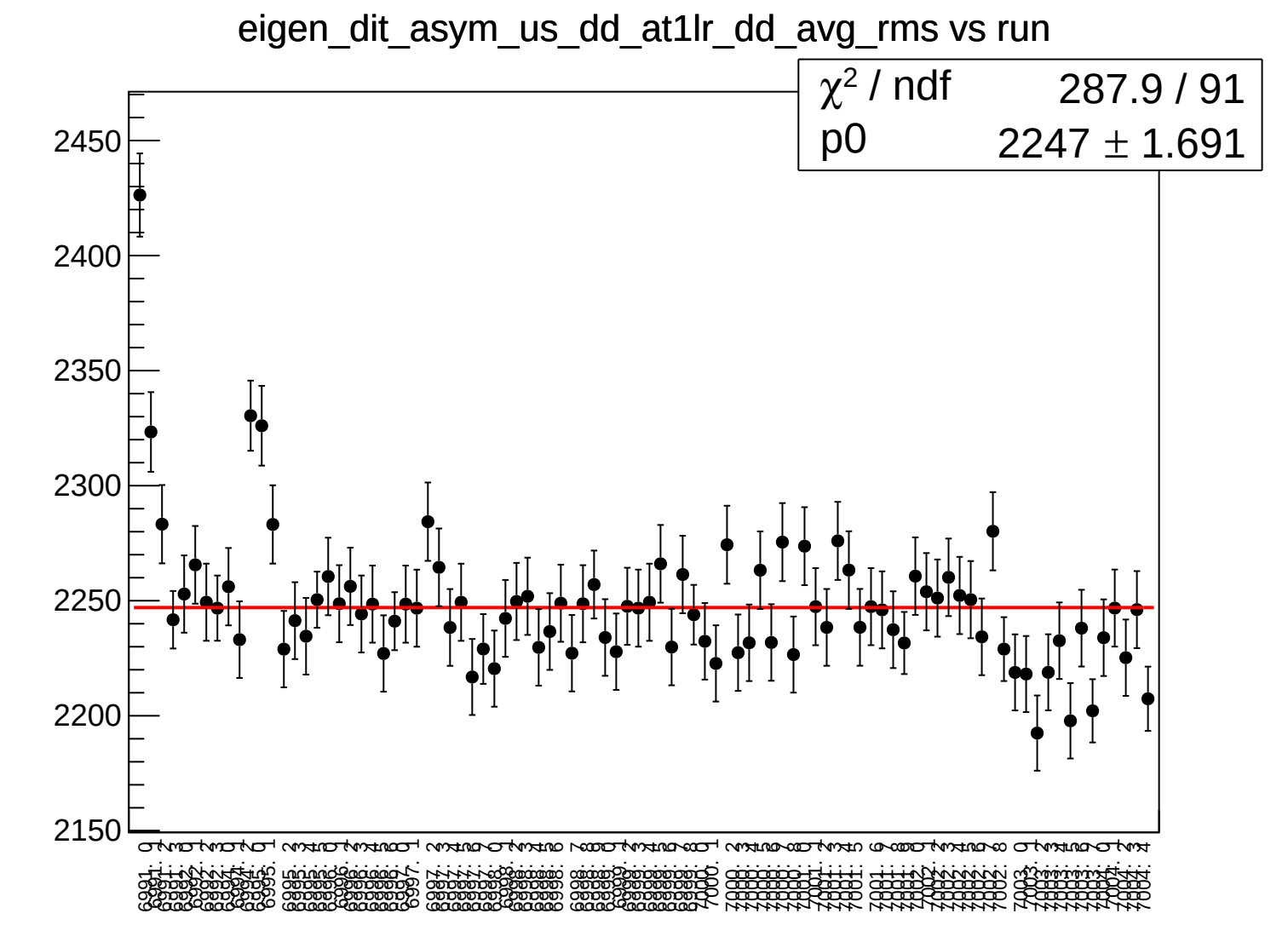

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 99.05 / 91
p0 −236.5 ± 189.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean 2400
Std Dev 0
3
2
1
0
−1
−2

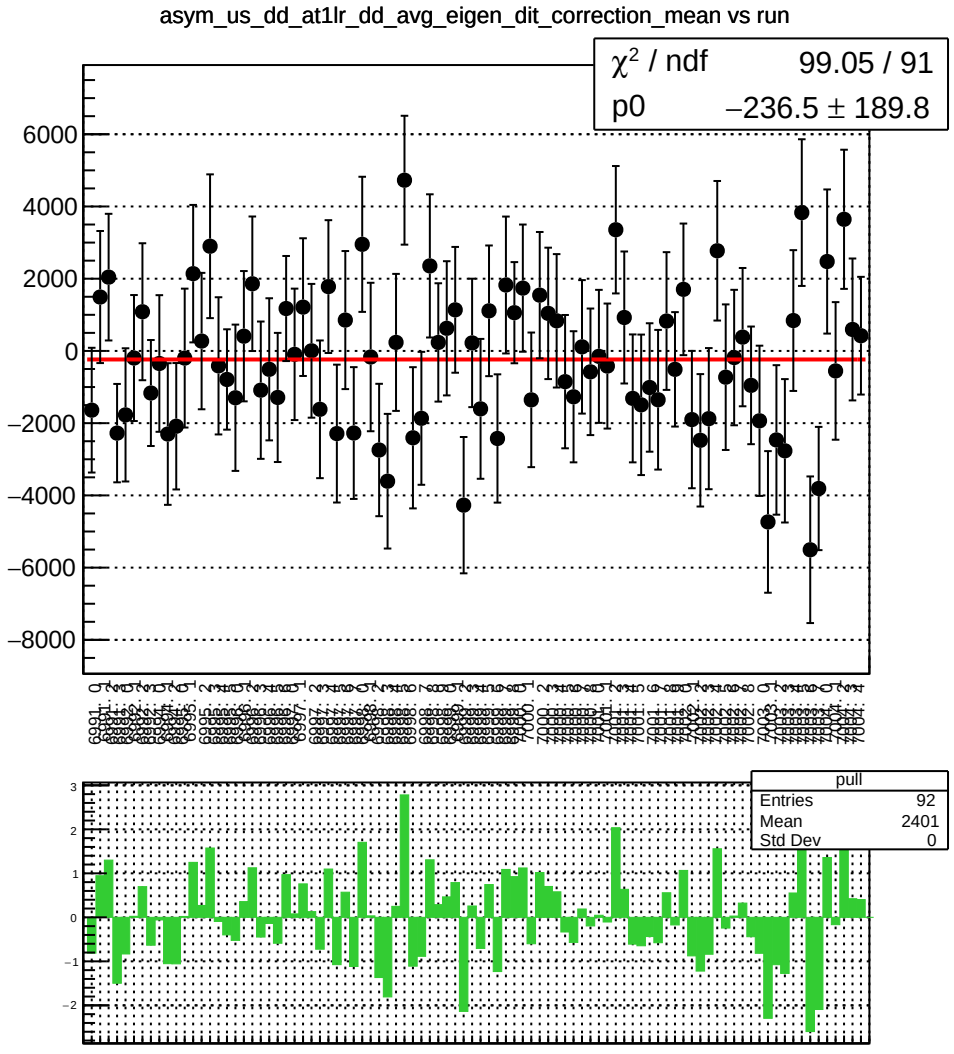

pull1D
Entries 92
Mean −0.0004813
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

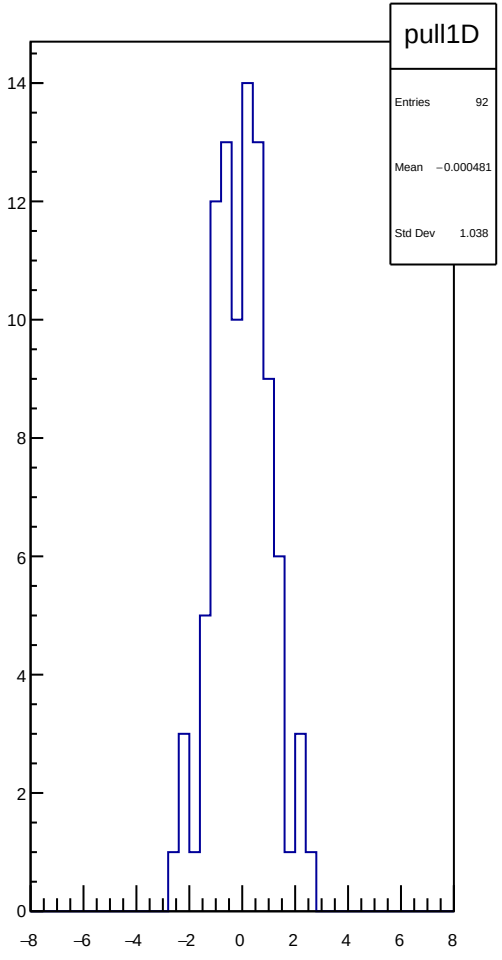

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3582 / 91
p0 178.1 ± 0.1342
200
195
190
185
180
175
170
165
160

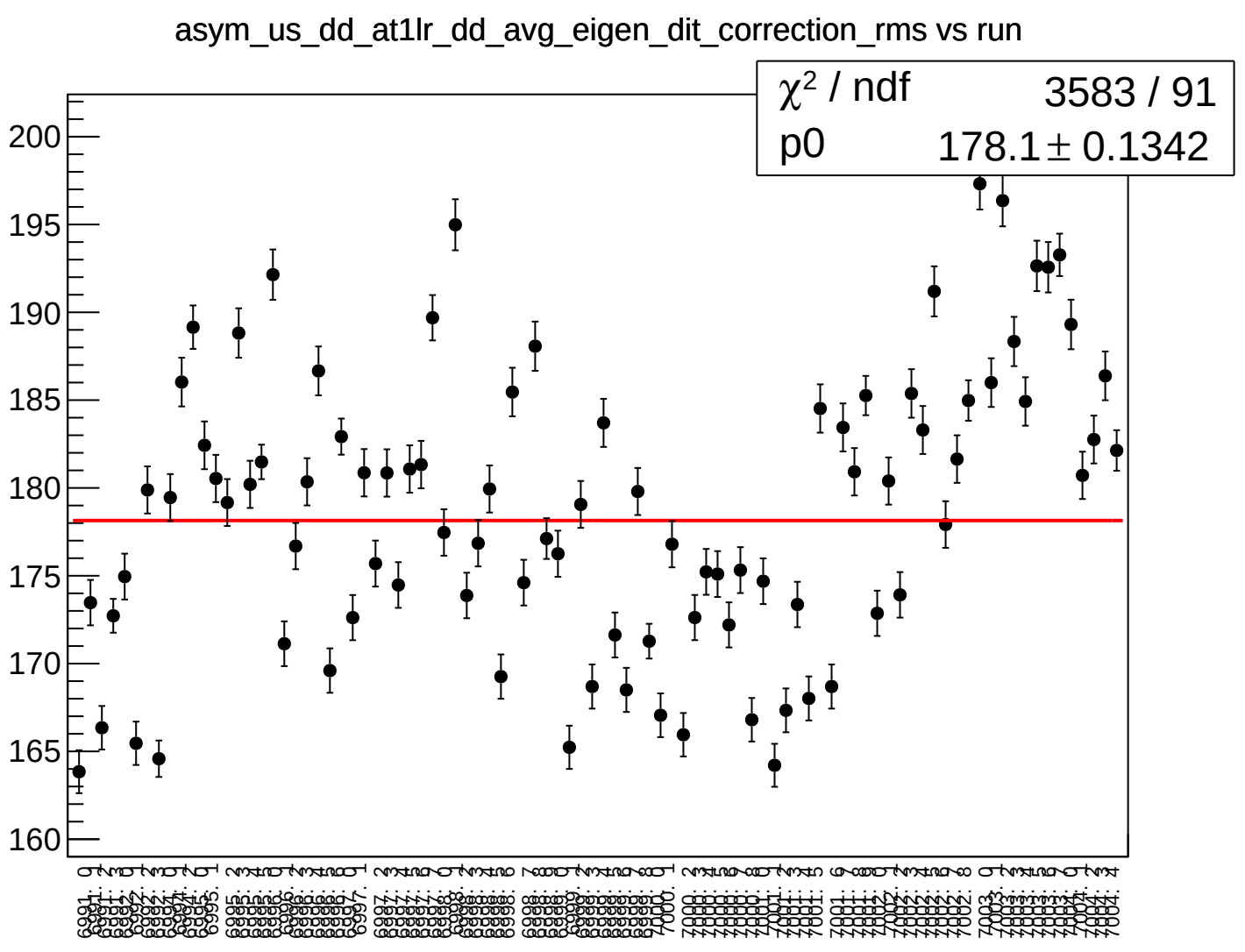

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 76.78 / 91
p0 −2174 ± 2392
pull
Entries 92
Mean 221.6
Std Dev 0

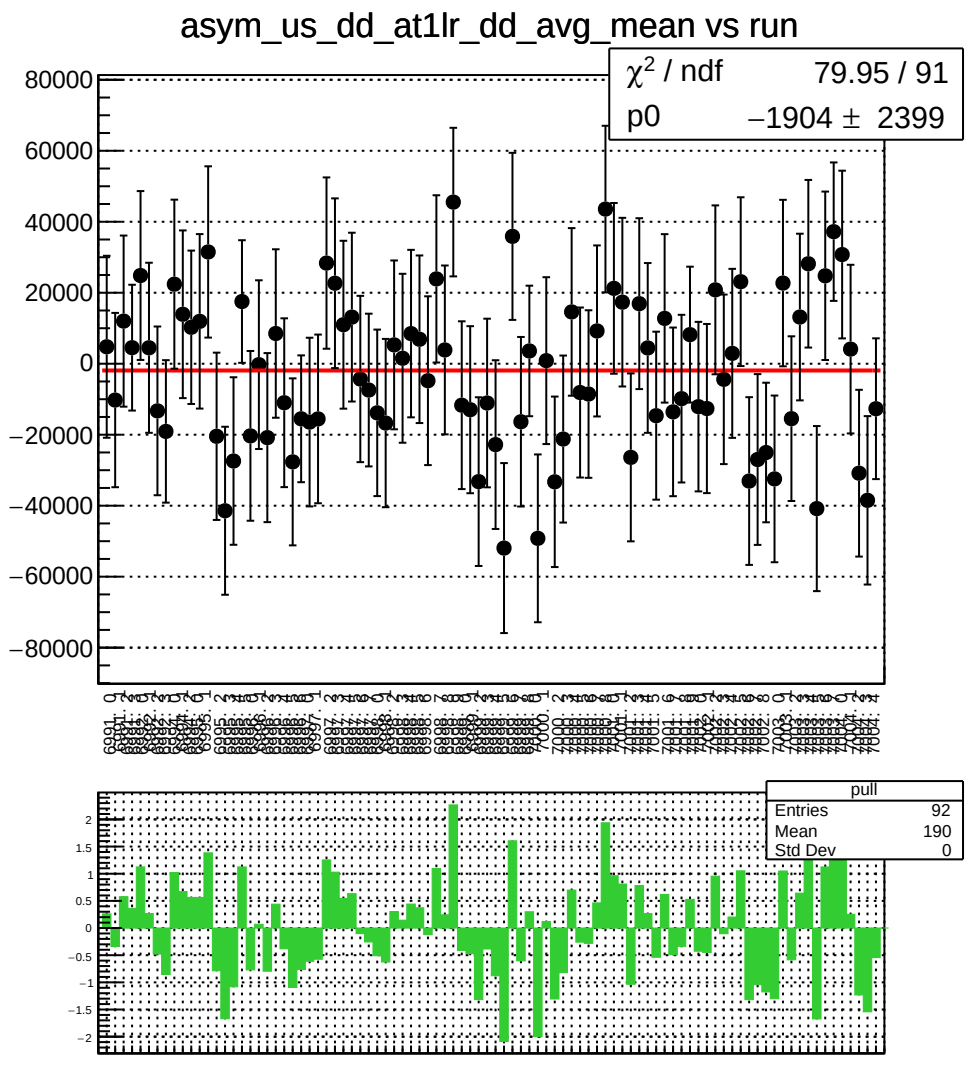

pull1D
Entries 92
Mean −0.006422
Std Dev 0.9135

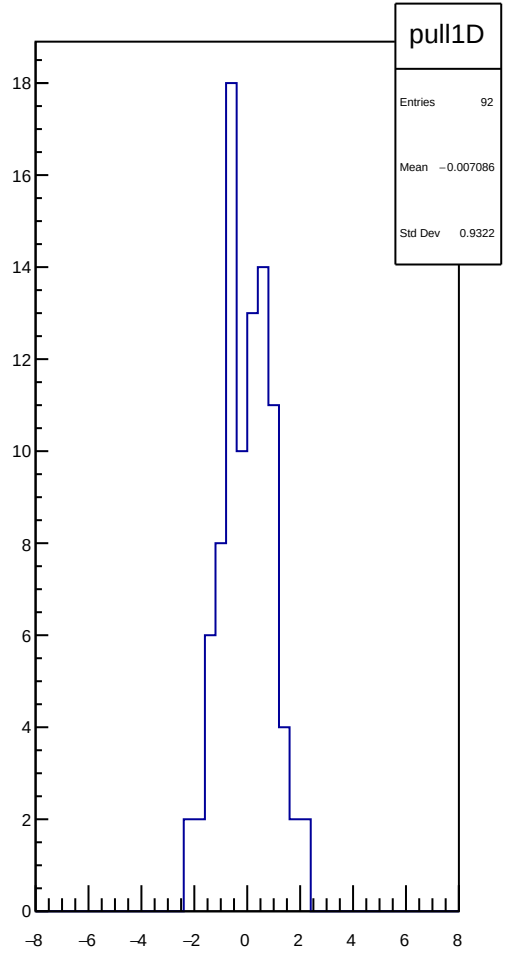

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 287.9 / 91
p0 2247 ± 1.691
2450
2400
2350
2300
2250
2200
2150

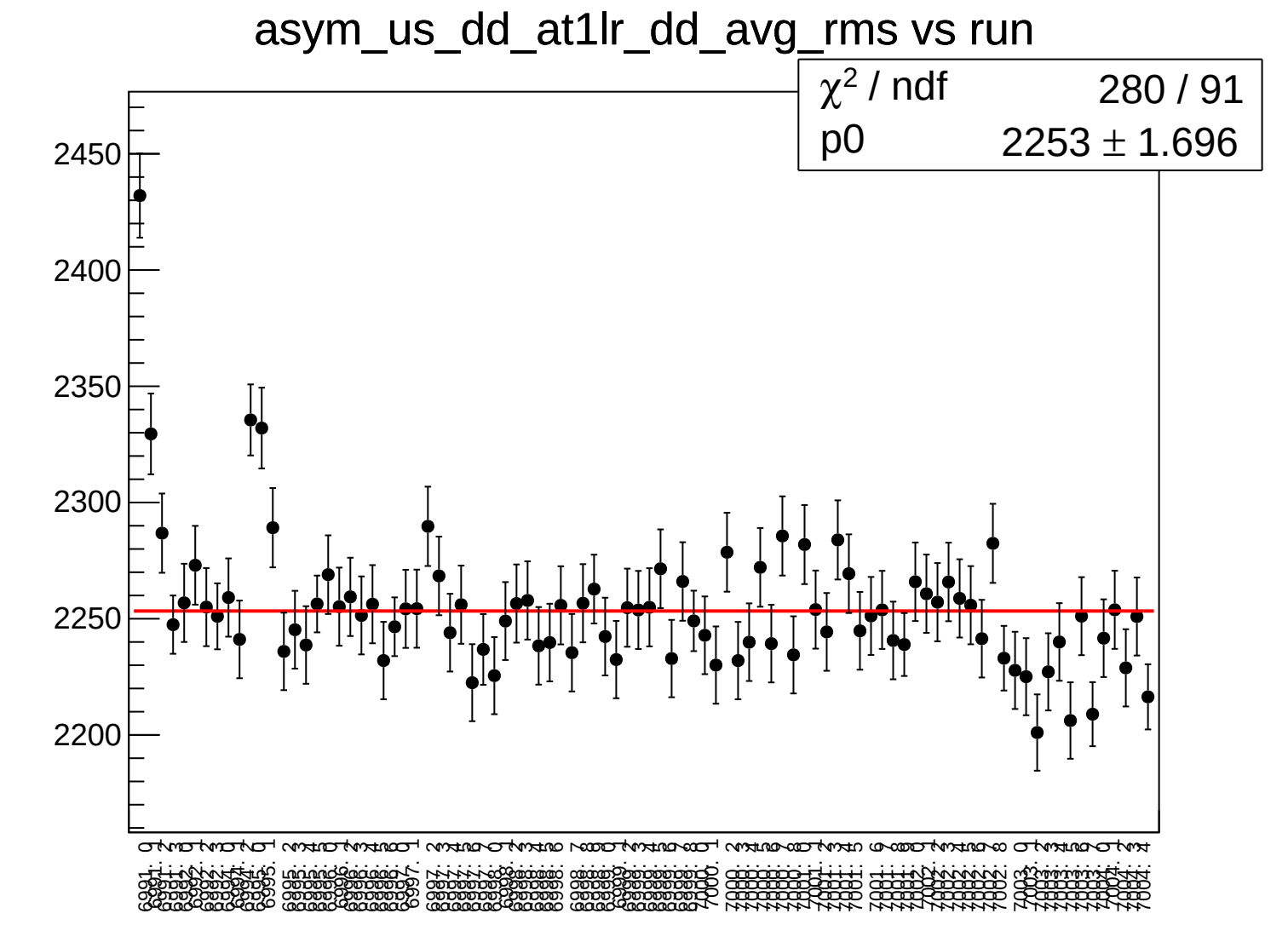

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.05 / 91
p0 −236.5 ± 189.8
pull
Entries 92
Mean 2401
Std Dev 0

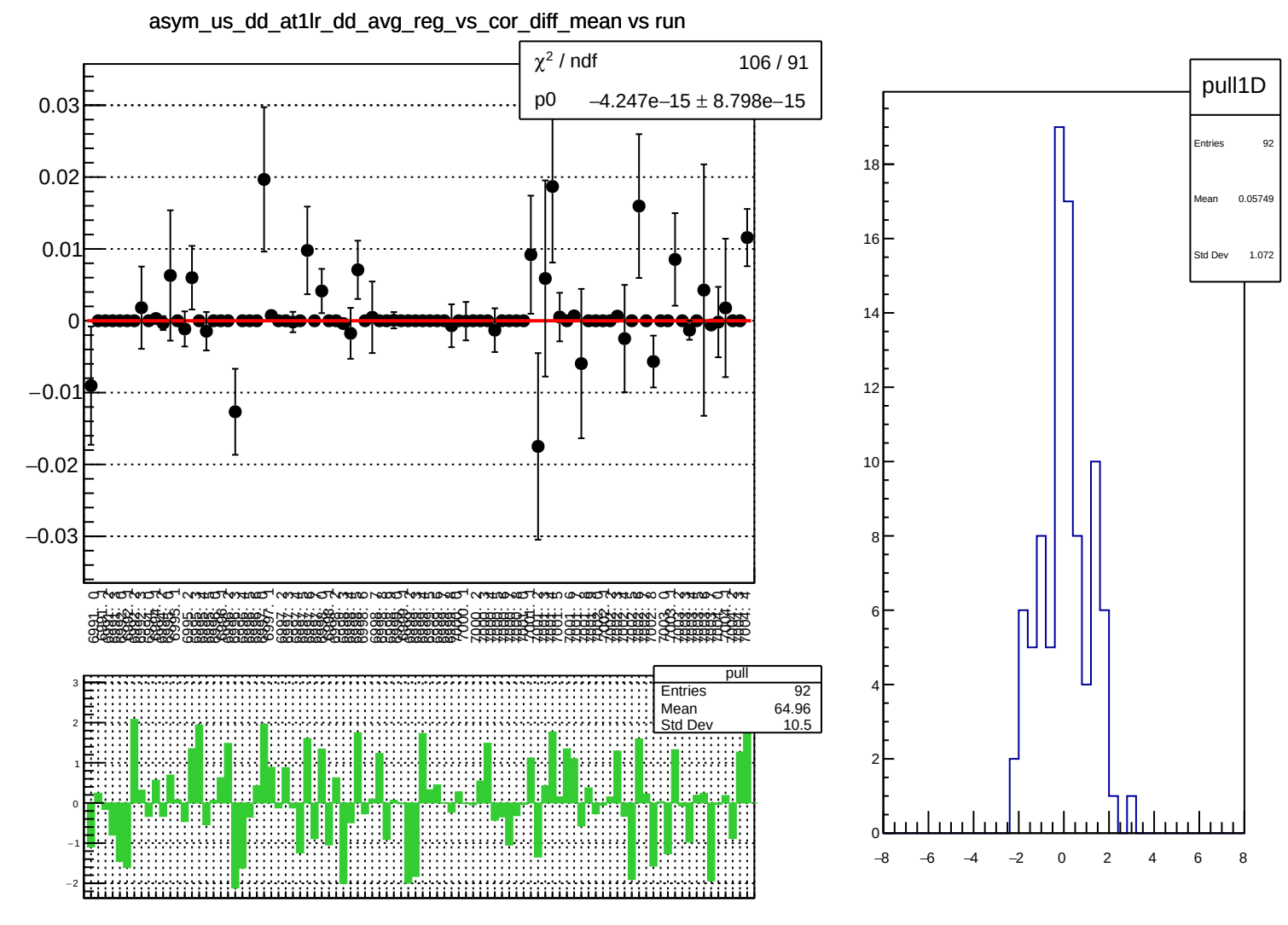

pull1D
Entries 92
Mean −0.000481
Std Dev 1.038

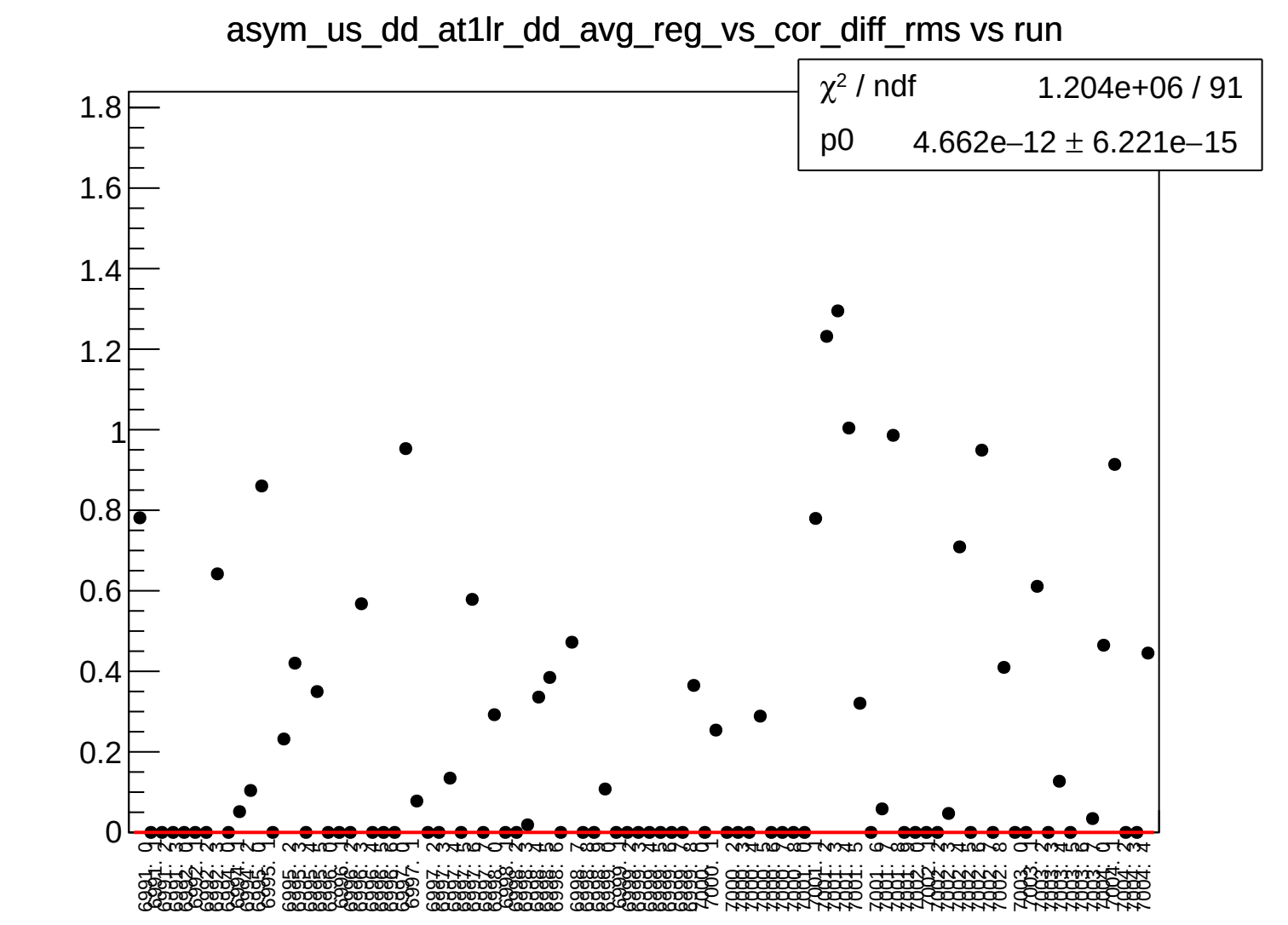

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3583 / 91
p0 178.1 ± 0.1342
200
195
190
185
180
175
170
165
160

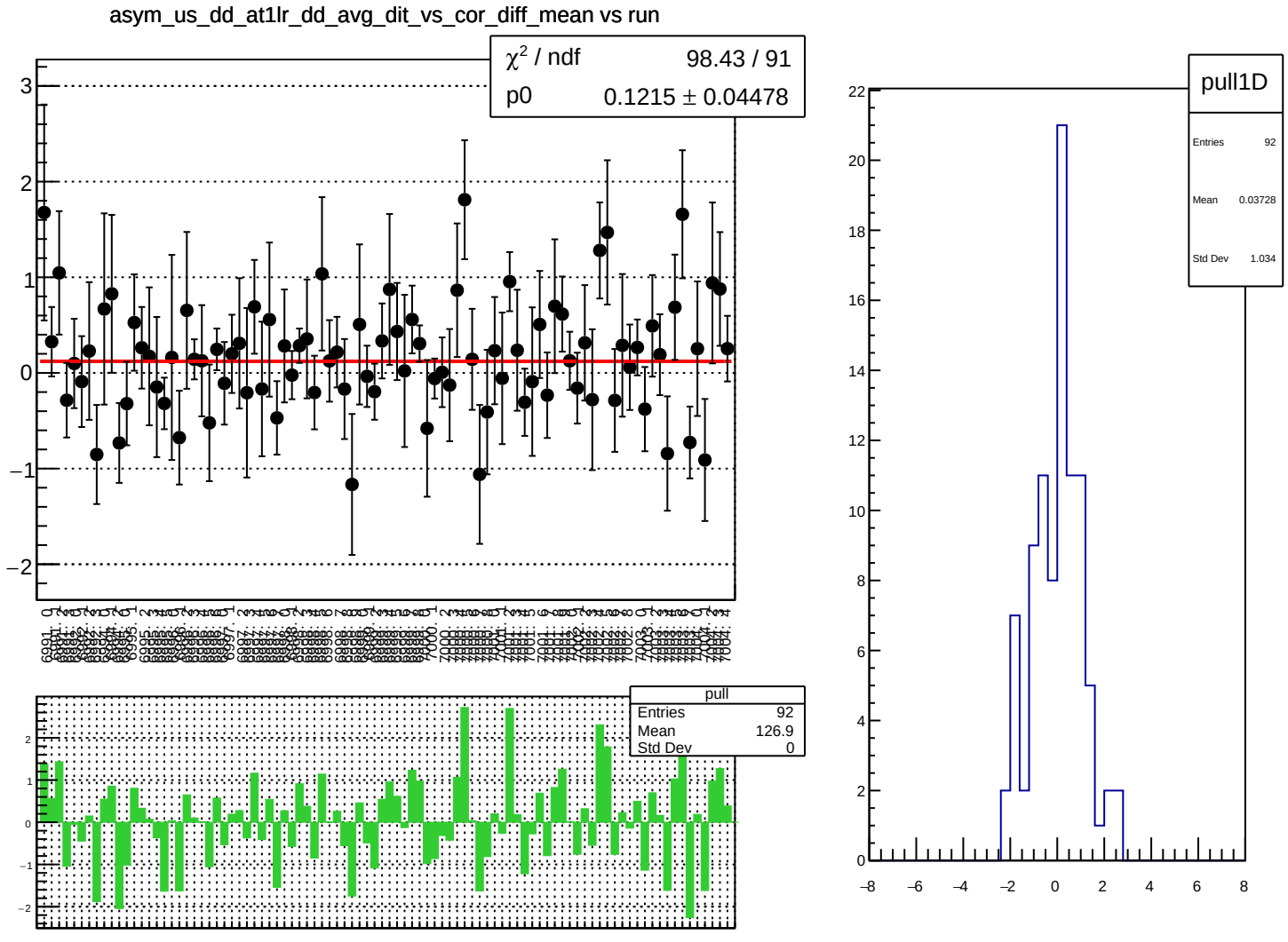

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 79.95 / 91
p0 −1904 ± 2399
pull
Entries 92
Mean 190
Std Dev 0

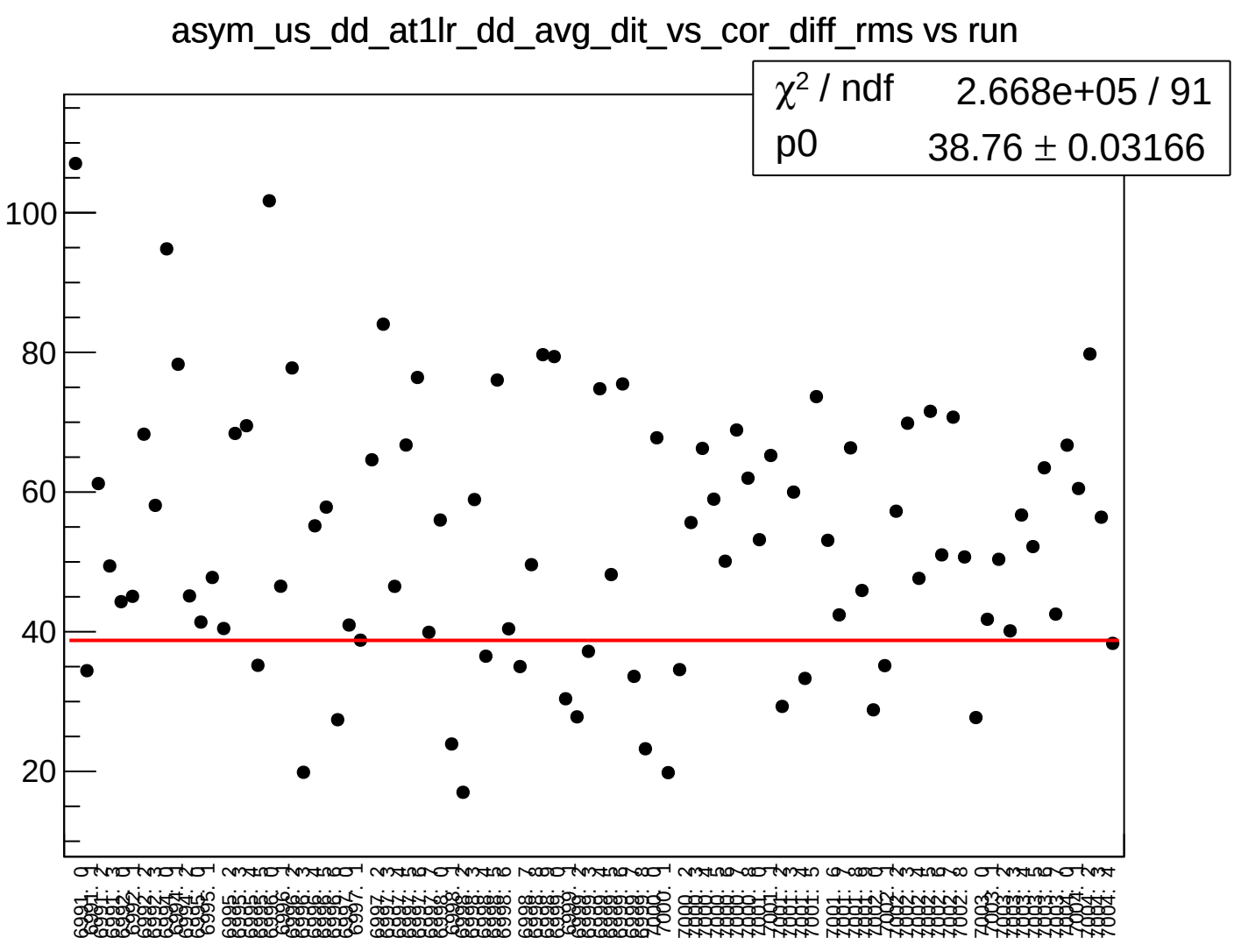

pull1D
Entries 92
Mean −0.007086
Std Dev 0.9322

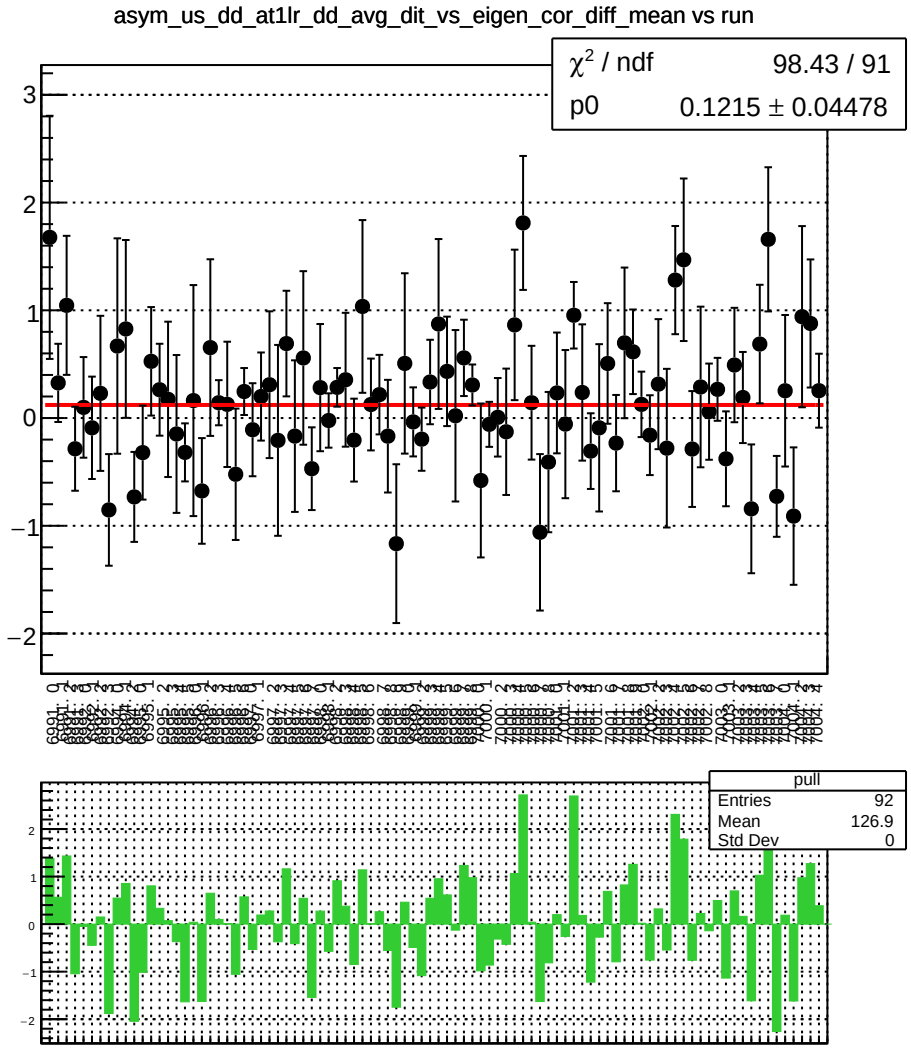

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 280 / 91
p0 2253 ± 1.696
2450
2400
2350
2300
2250
2200

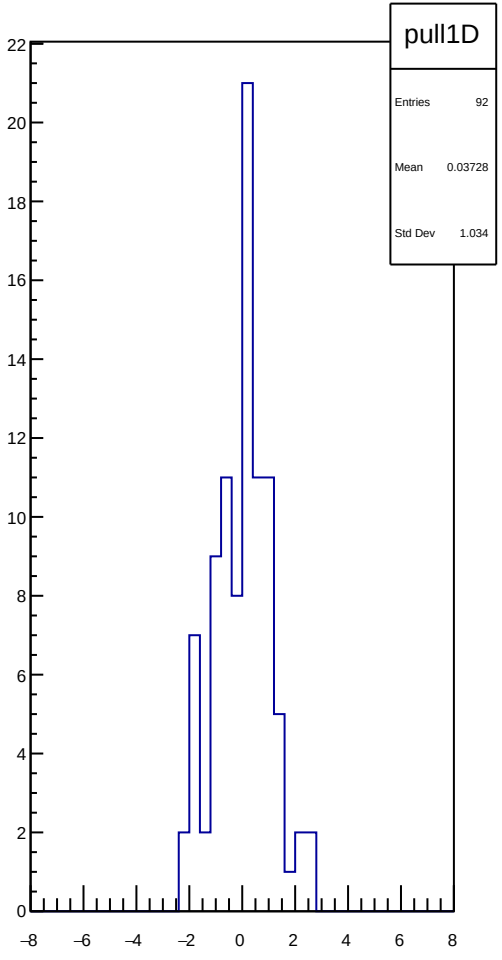

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106 / 91
p0 −4.247e−15 ± 8.798e−15
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 64.96
Std Dev 10.5
pull1D
Entries 92
Mean 0.05749
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

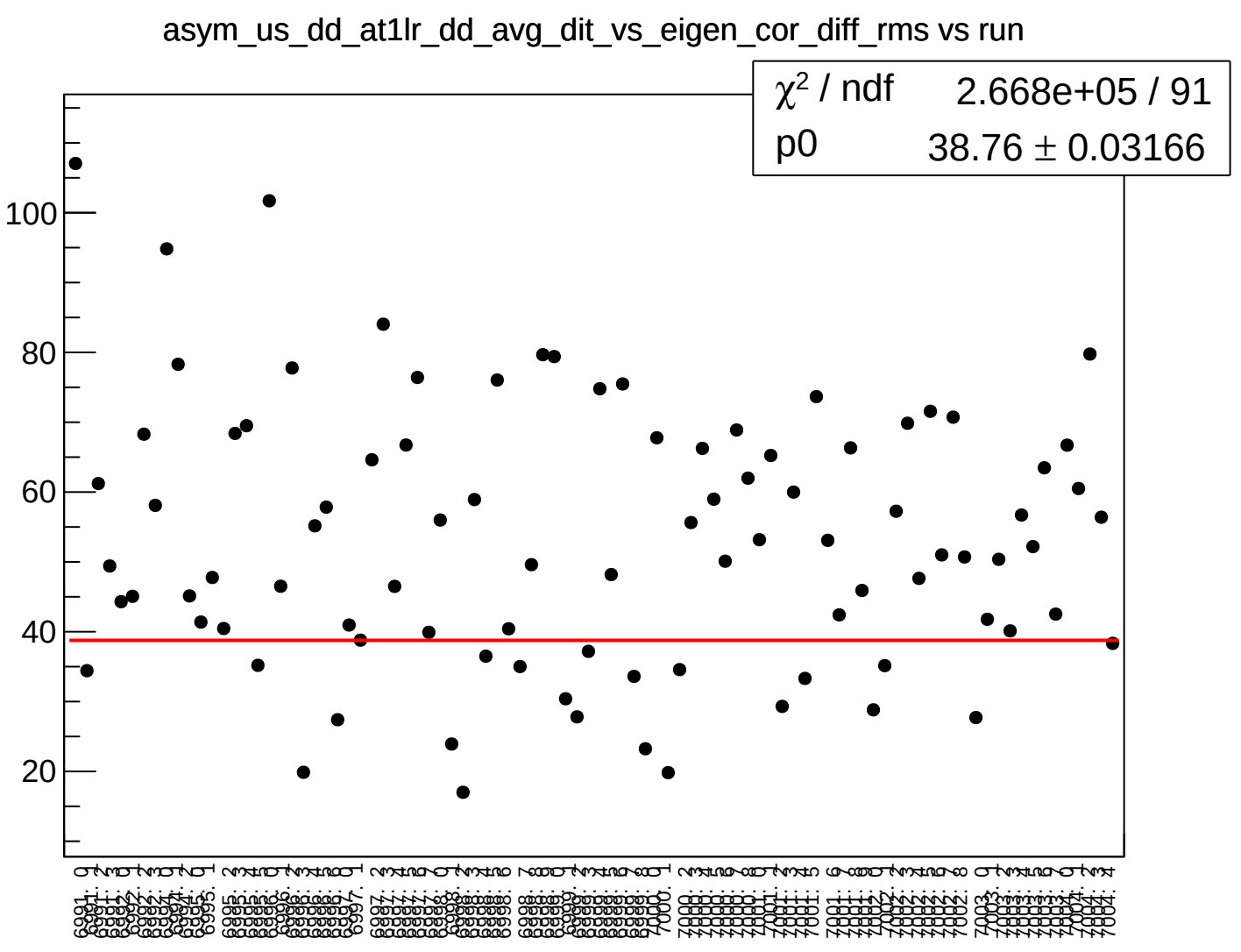

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.204e+06 / 91
p0 4.662e−12 ± 6.221e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

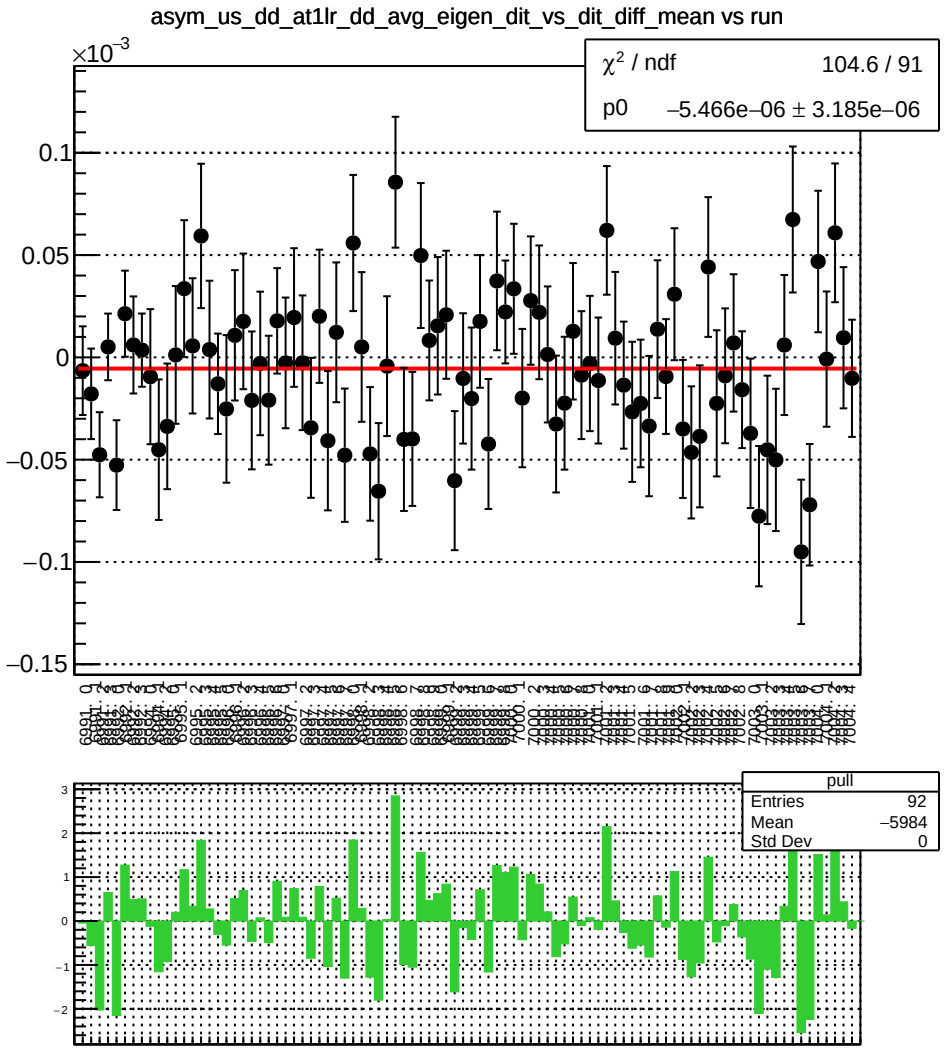

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.43 / 91
p0 0.1215 ± 0.04478
pull
Entries 92
Mean 126.9
Std Dev 0
pull1D
Entries 92
Mean 0.03728
Std Dev 1.034

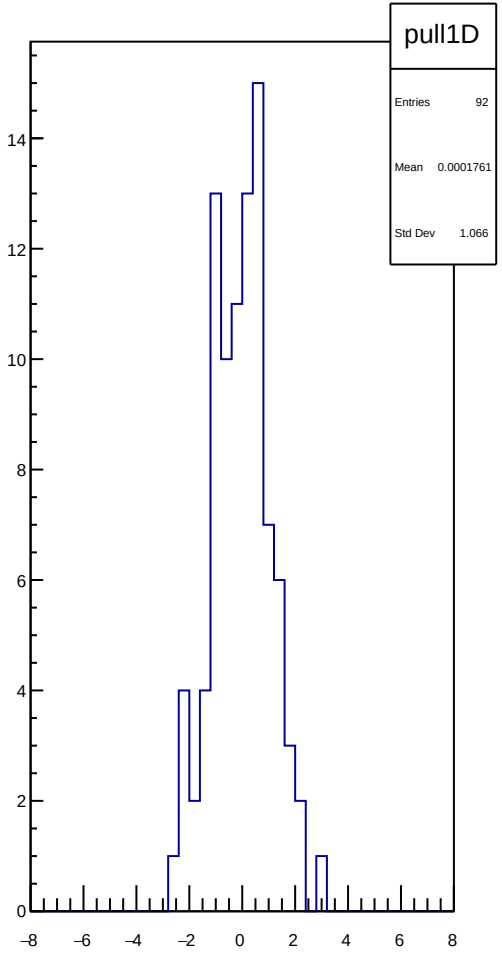

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.668e+05 / 91
p0 38.76 ± 0.03166
100
80
60
40
20

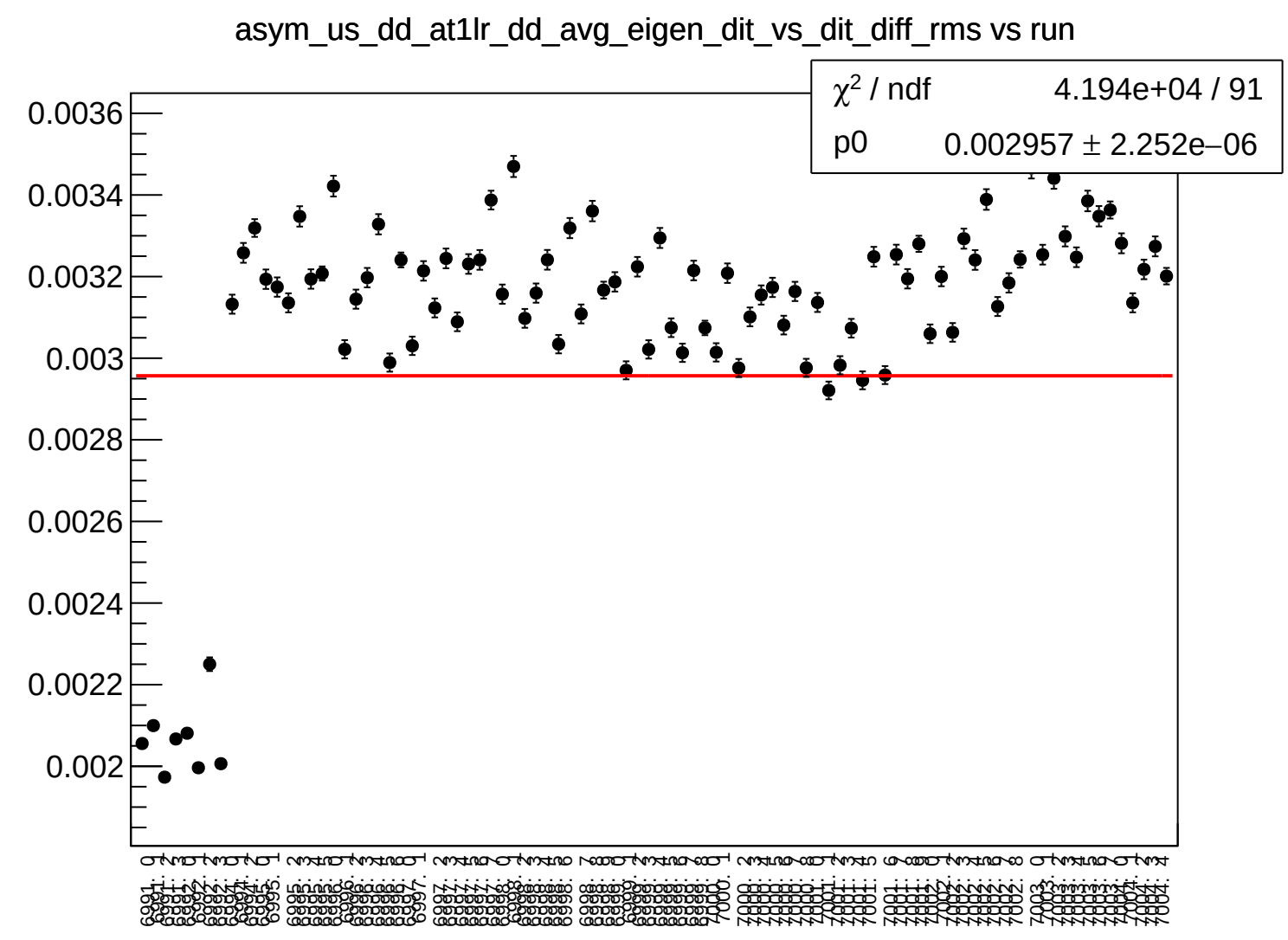

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.43 / 91
p0 0.1215 ± 0.04478
pull
Entries 92
Mean 126.9
Std Dev 0

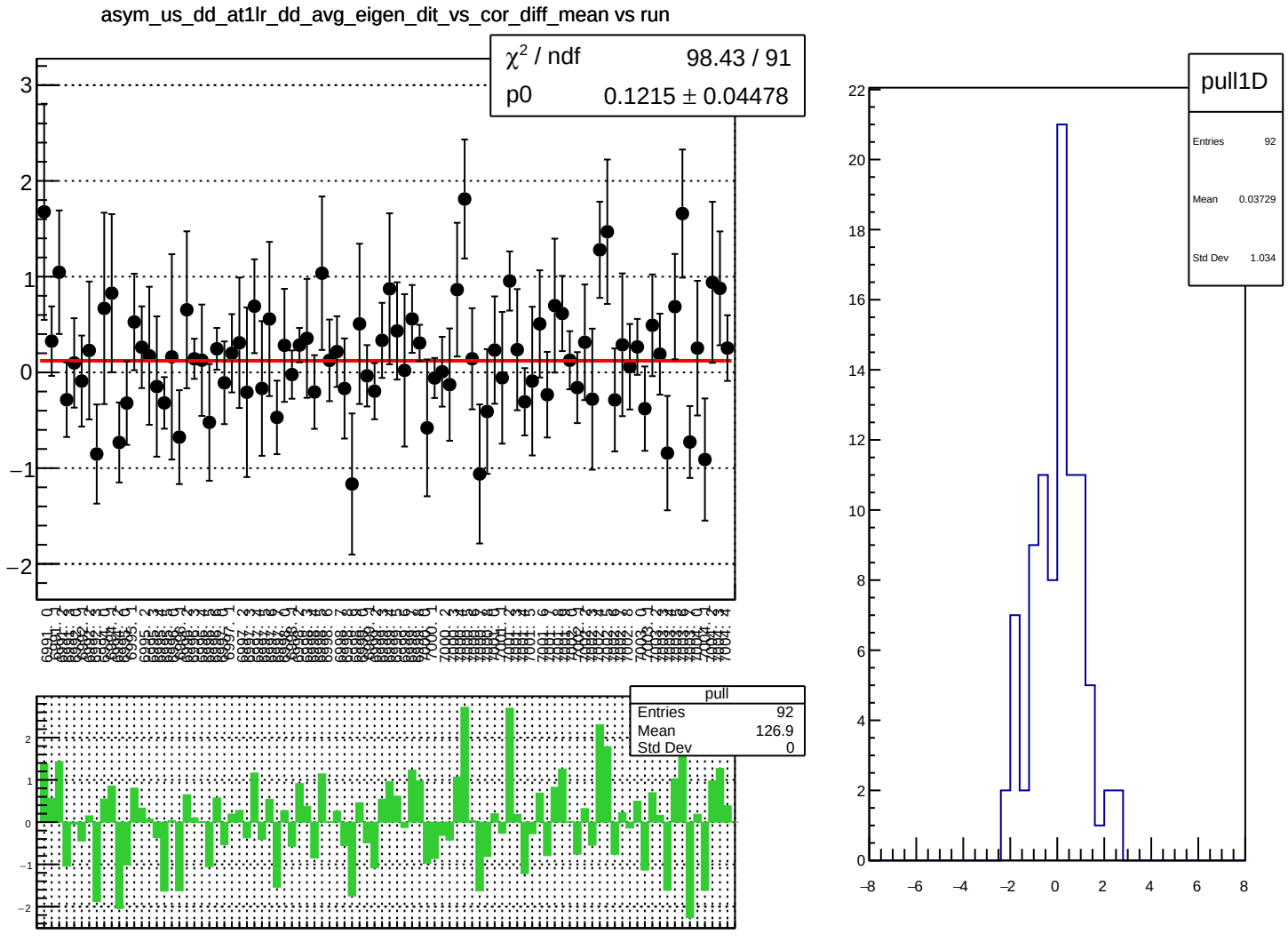

pull1D
Entries 92
Mean 0.03728
Std Dev 1.034

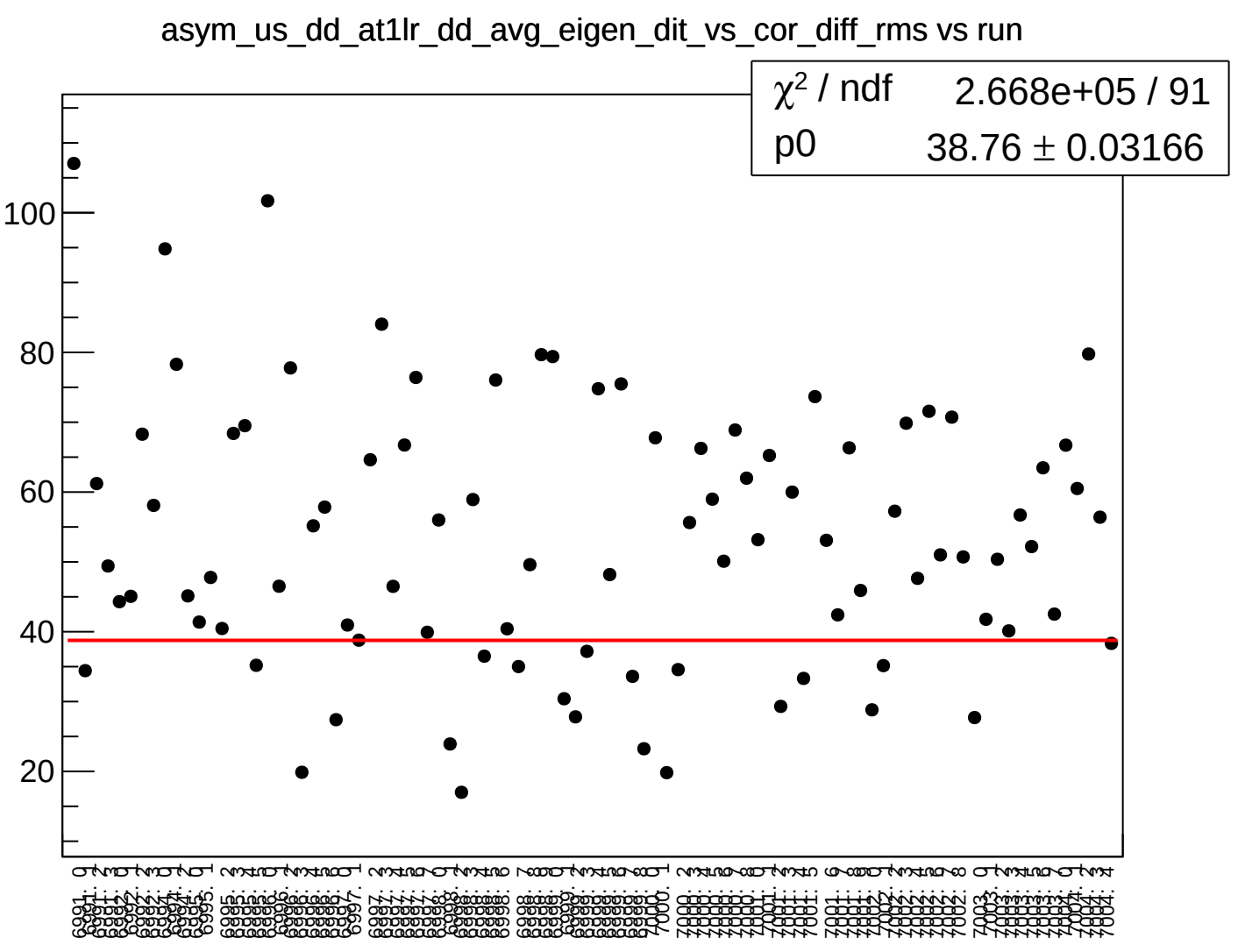

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.668e+05 / 91
p0 38.76 ± 0.03166
100
80
60
40
20

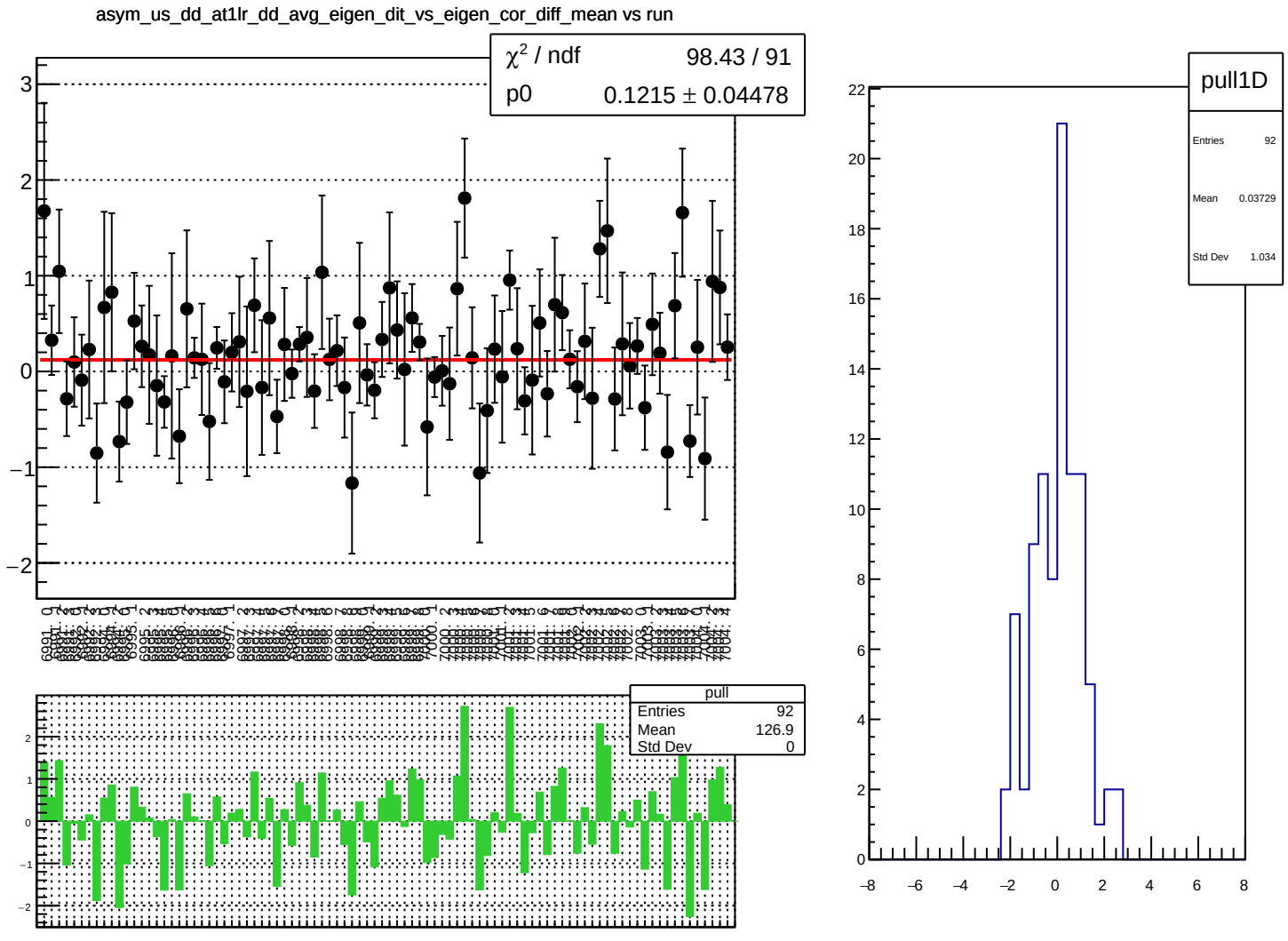

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.6 / 91
p0 −5.466e−06 ± 3.185e−06
pull
Entries 92
Mean −5984
Std Dev 0

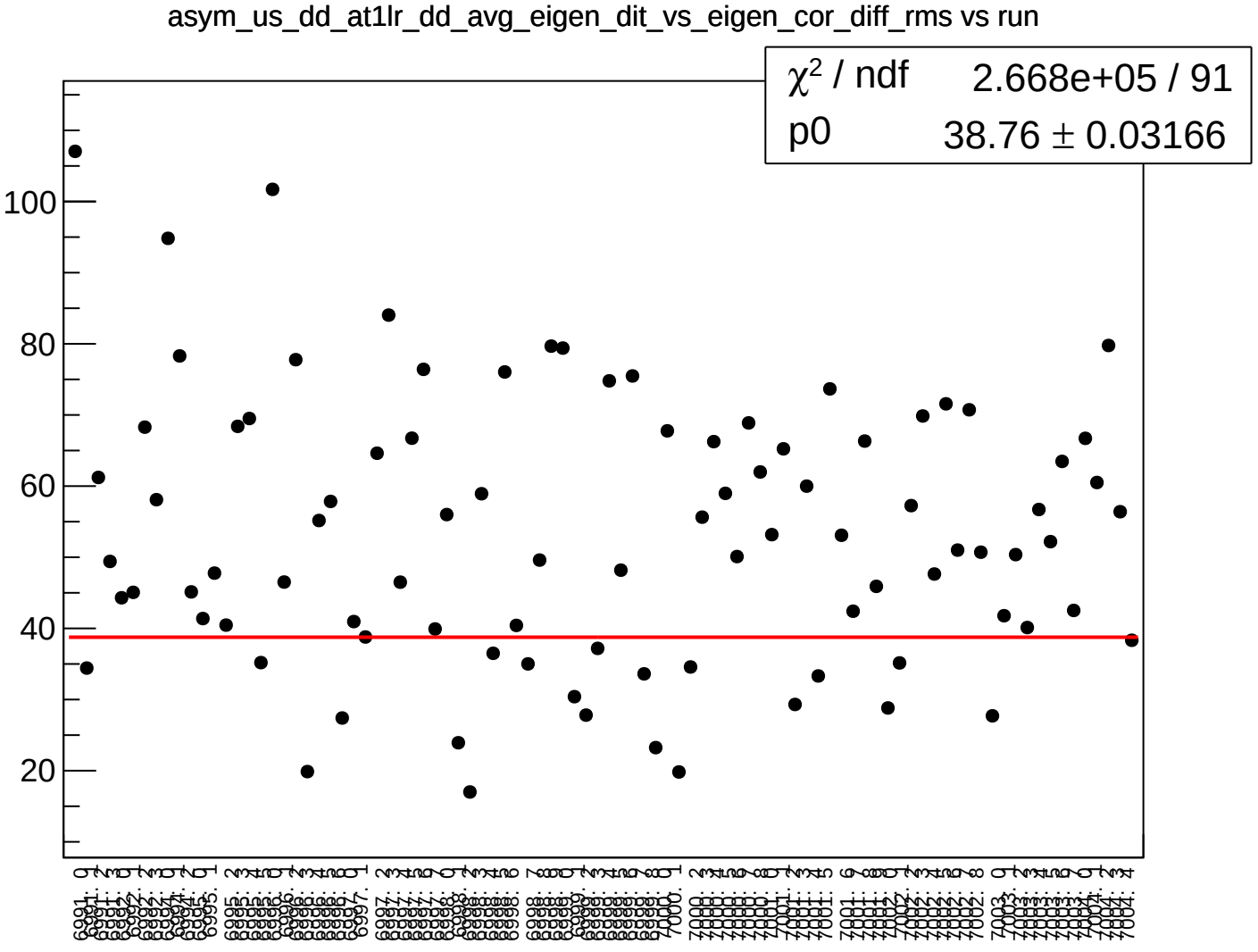

pull1D
Entries 92
Mean 0.0001761
Std Dev 1.066

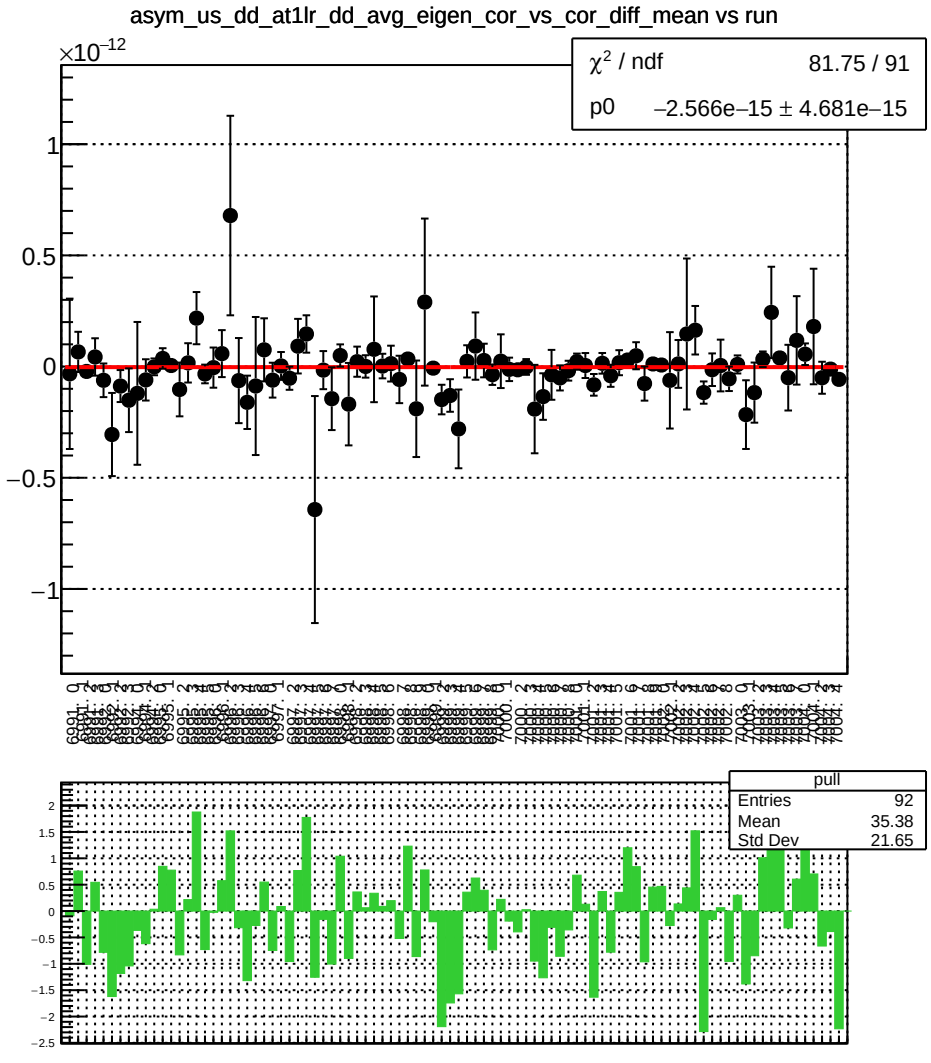

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.194e+04 / 91
p0 0.002957 ± 2.252e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

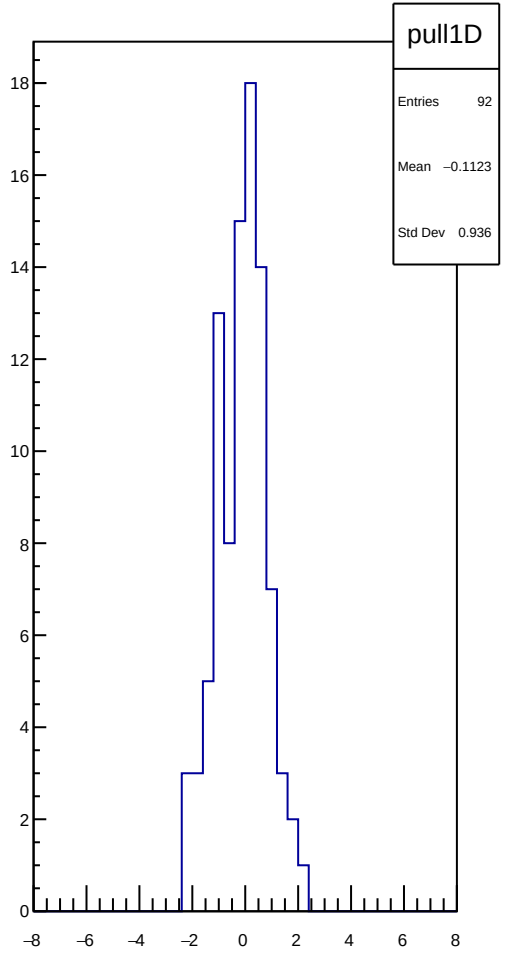

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.43 / 91
p0 0.1215 ± 0.04478
pull
Entries 92
Mean 126.9
Std Dev 0
pull1D
Entries 92
Mean 0.03729
Std Dev 1.034

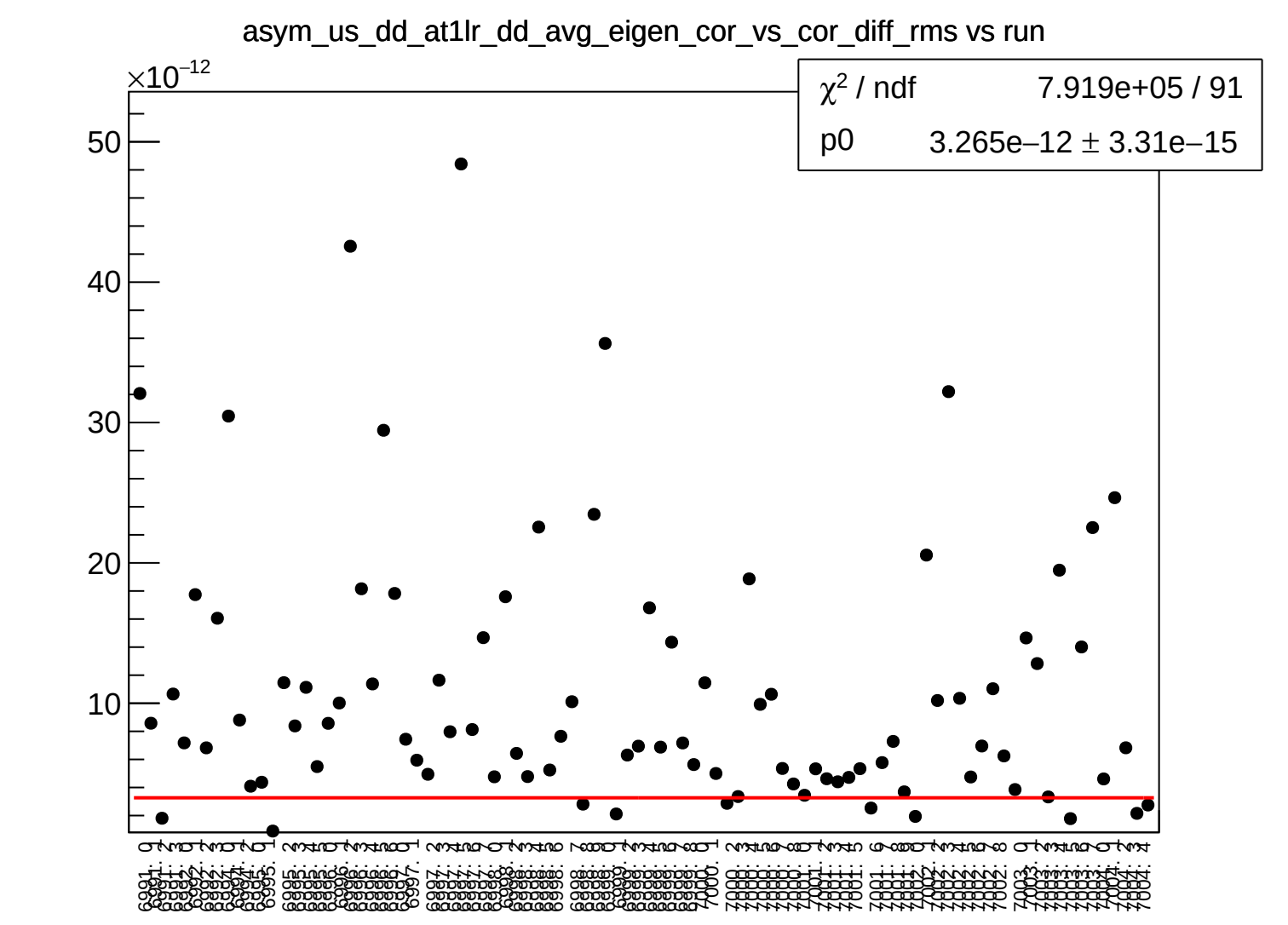

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.668e+05 / 91
p0 38.76 ± 0.03166
100
80
60
40
20

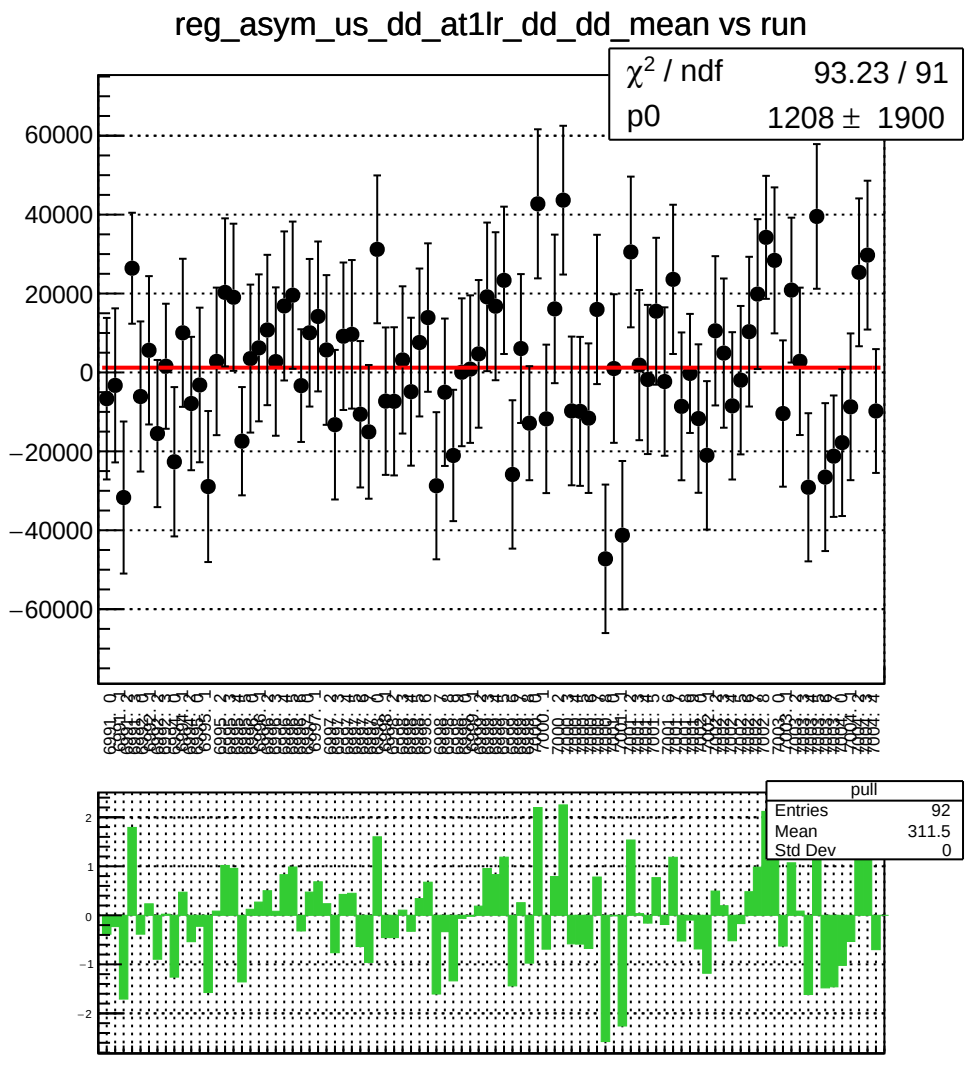

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.43 / 91
p0 0.1215 ± 0.04478
pull
Entries 92
Mean 126.9
Std Dev 0
pull1D
Entries 92
Mean 0.03729
Std Dev 1.034

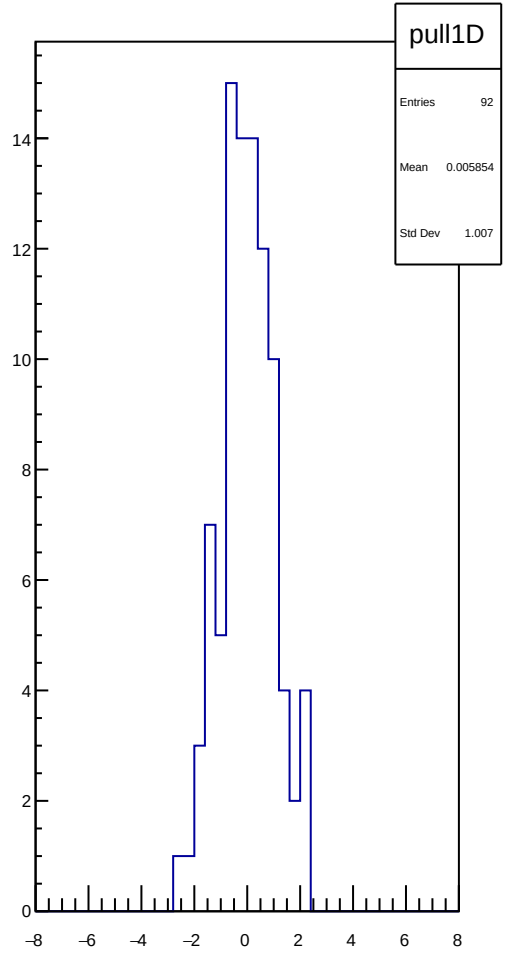

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.668e+05 / 91
p0 38.76 ± 0.03166
100
80
60
40
20

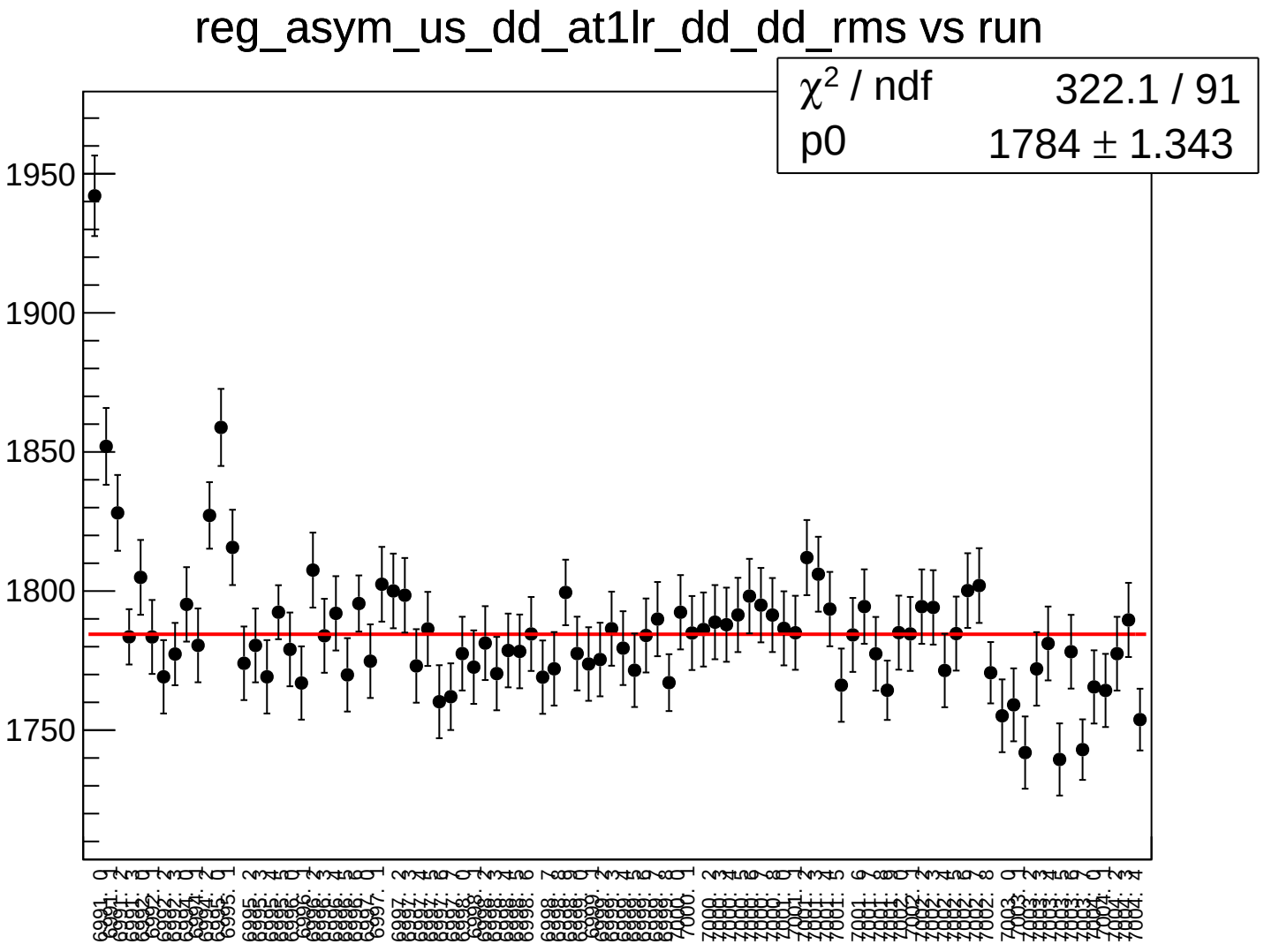

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.75 / 91
p0 −2.566e−15 ± 4.681e−15
pull
Entries 92
Mean 35.38
Std Dev 21.65

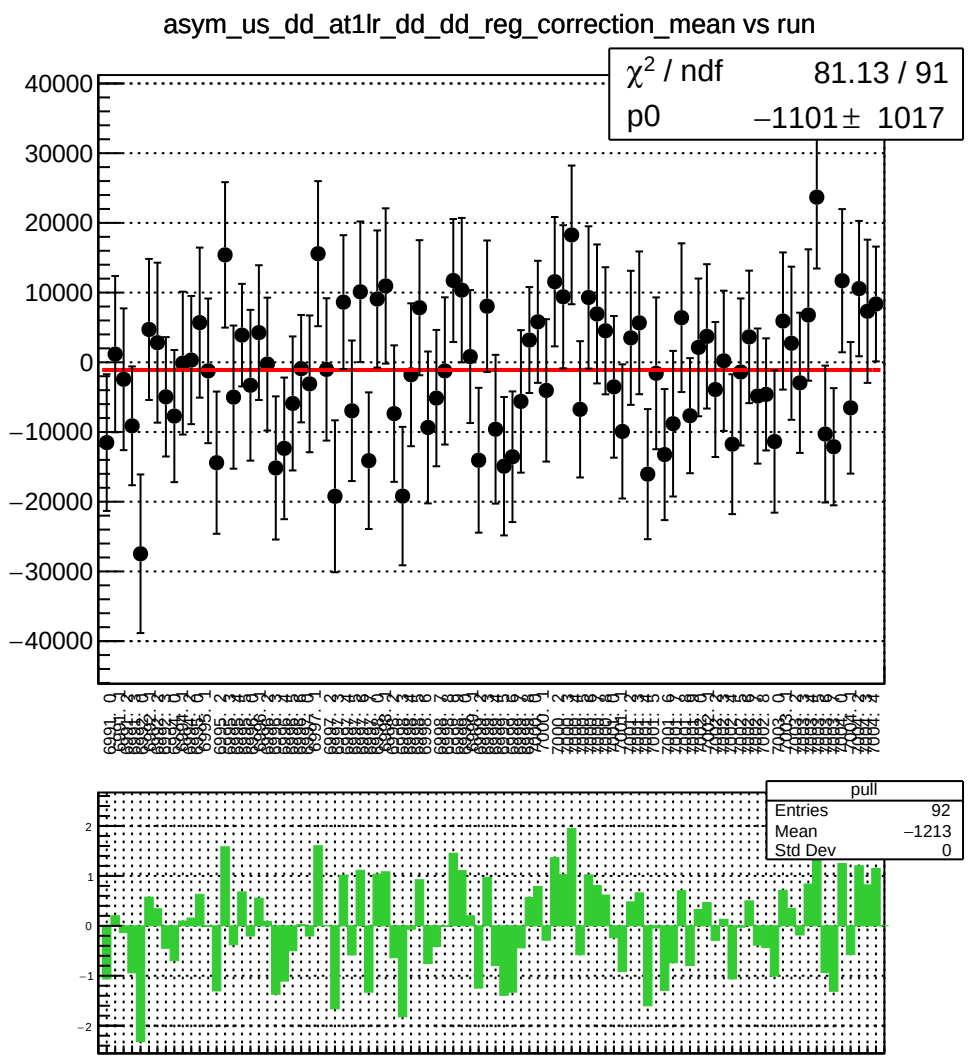

pull1D
Entries 92
Mean −0.1123
Std Dev 0.936

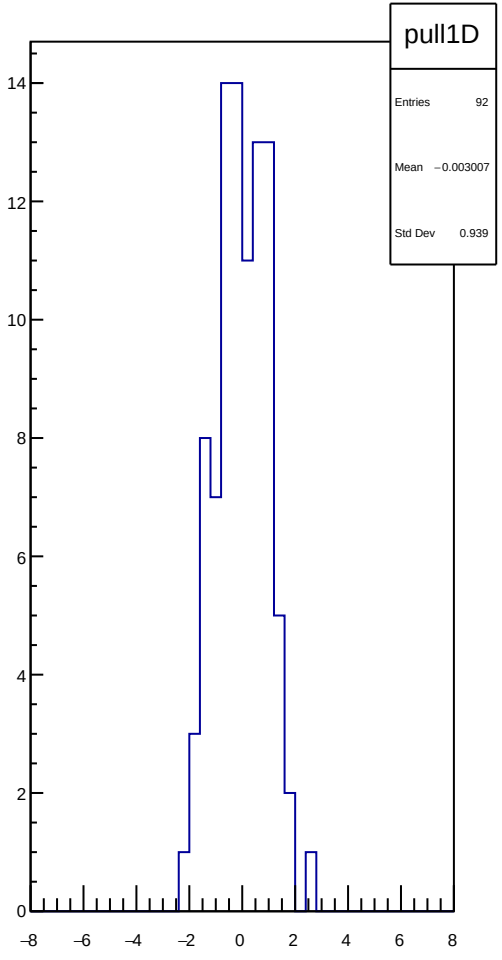

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.919e+05 / 91
p0 3.265e−12 ± 3.31e−15
50
40
30
20
10

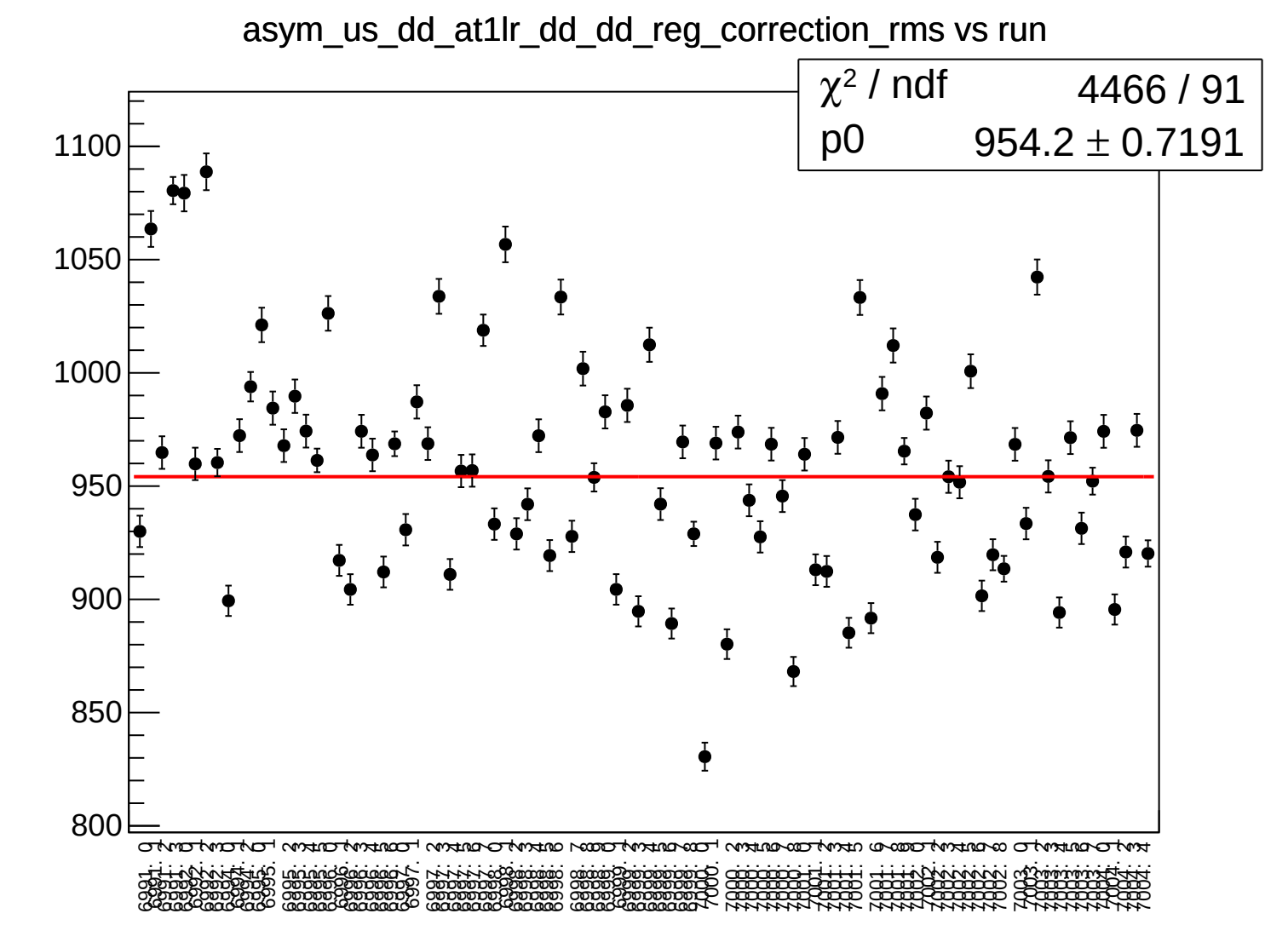

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.23 / 91
p0 1208 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 311.5
Std Dev 0
2
1
0
−1
−2

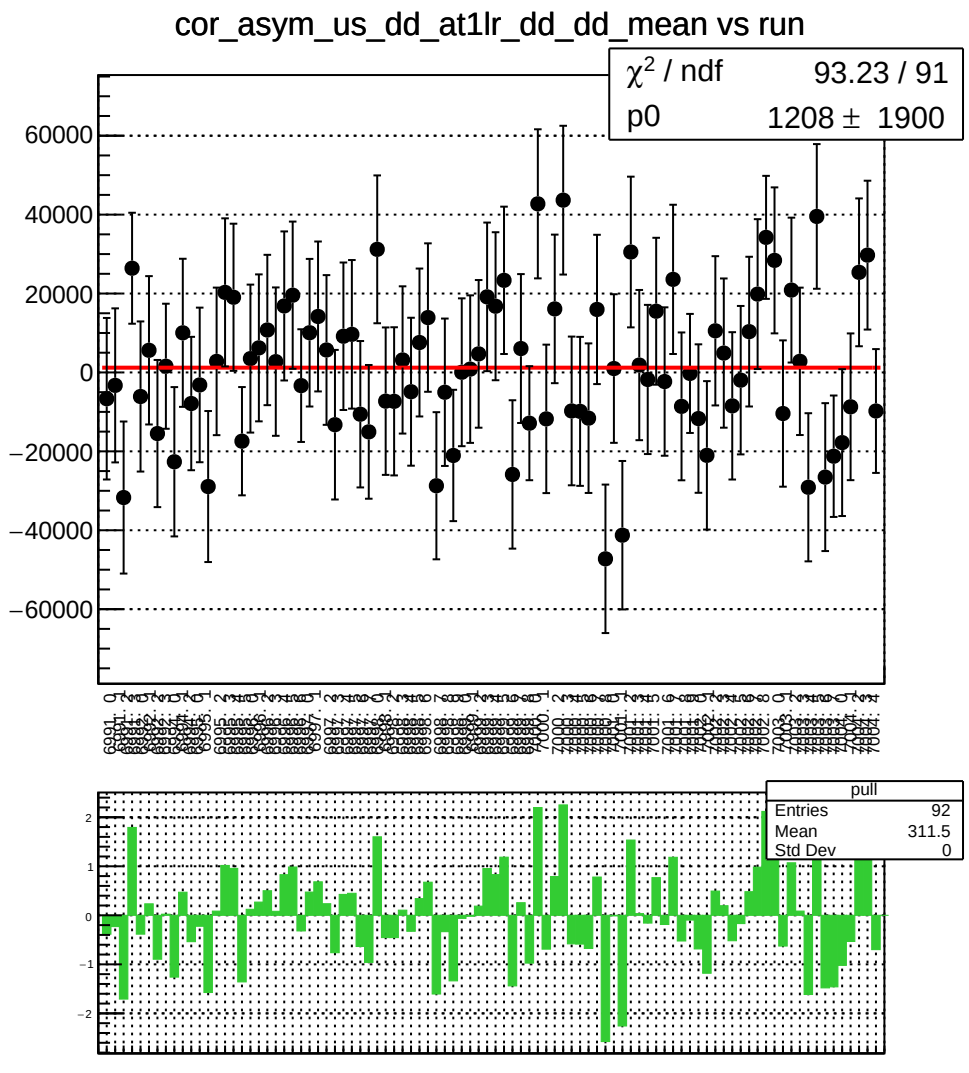

pull1D
Entries 92
Mean 0.005854
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

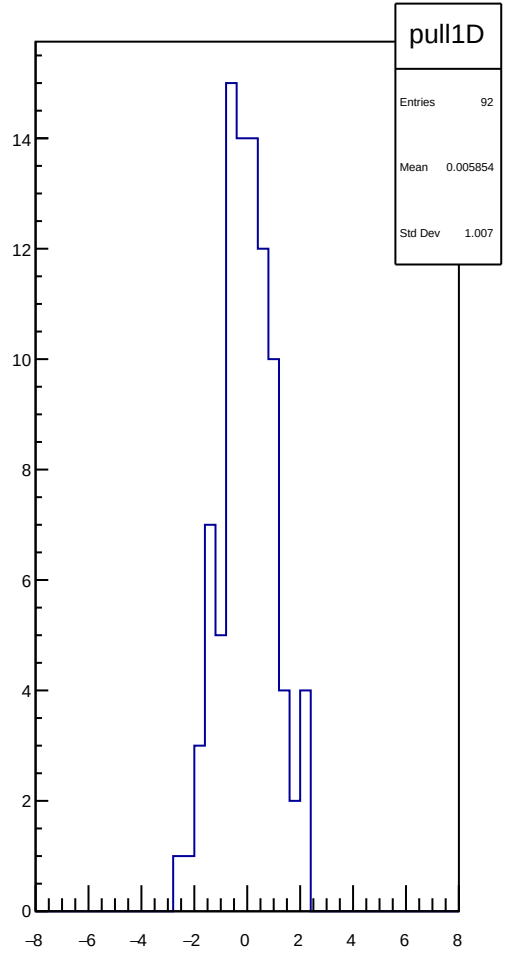

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 322.1 / 91
p0 1784 ± 1.343
1950
1900
1850
1800
1750

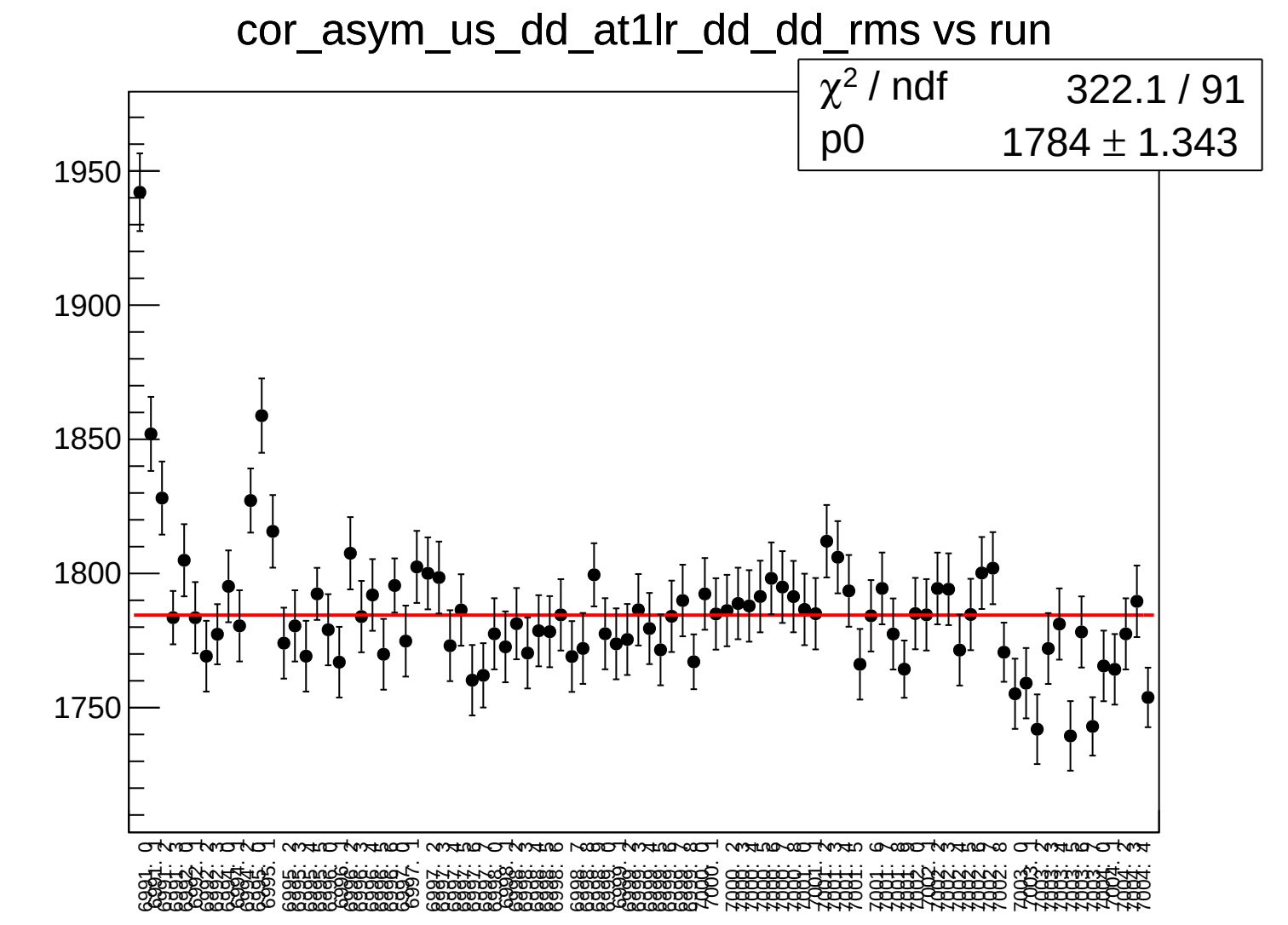

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 81.13 / 91
p0 −1101 ± 1017
pull
Entries 92
Mean −1213
Std Dev 0

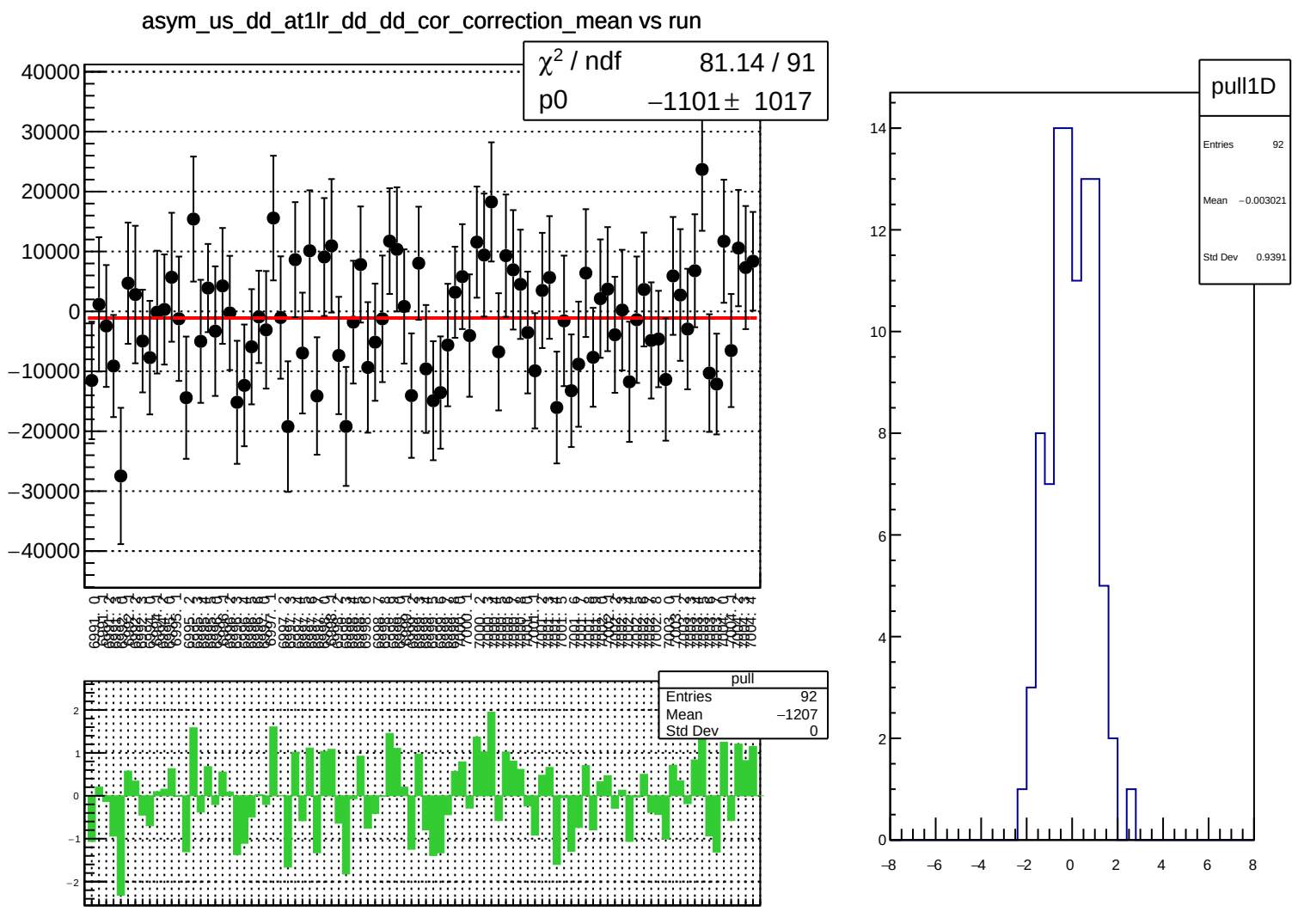

pull1D
Entries 92
Mean −0.003007
Std Dev 0.939

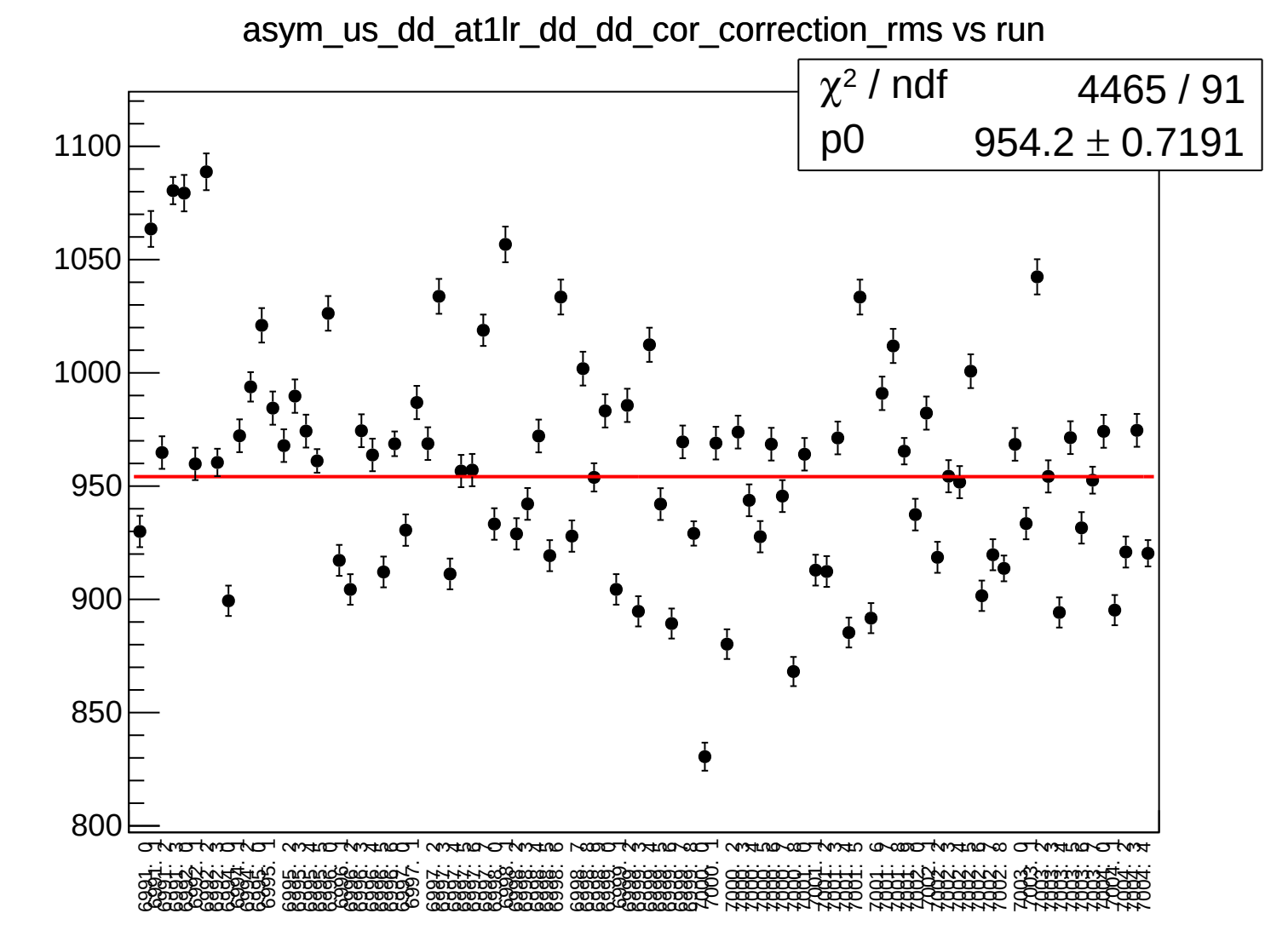

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 4466 / 91
p0 954.2 ± 0.7191
1100
1050
1000
950
900
850
800

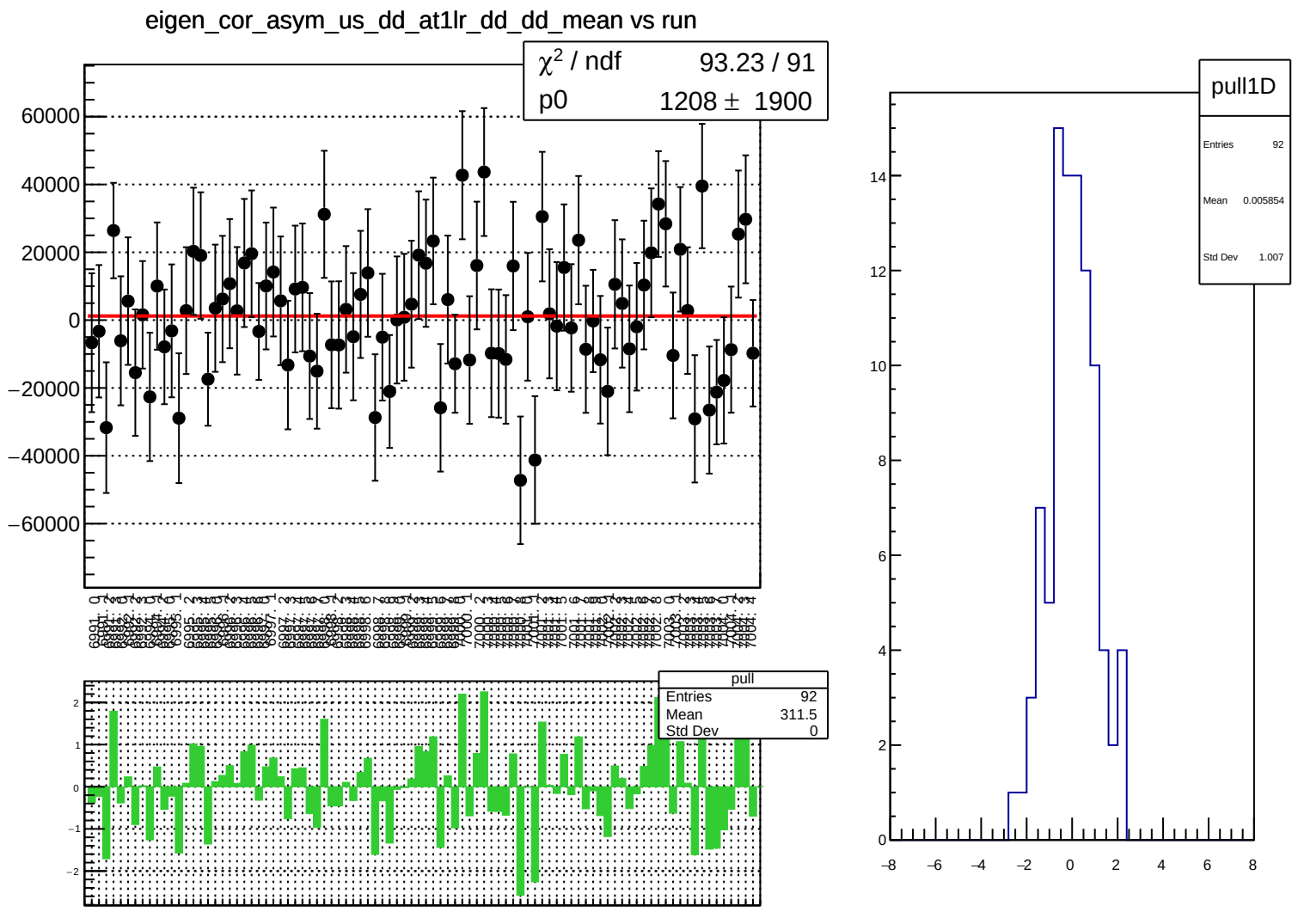

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.23 / 91
p0 1208 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 311.5
Std Dev 0
2
1
0
−1
−2

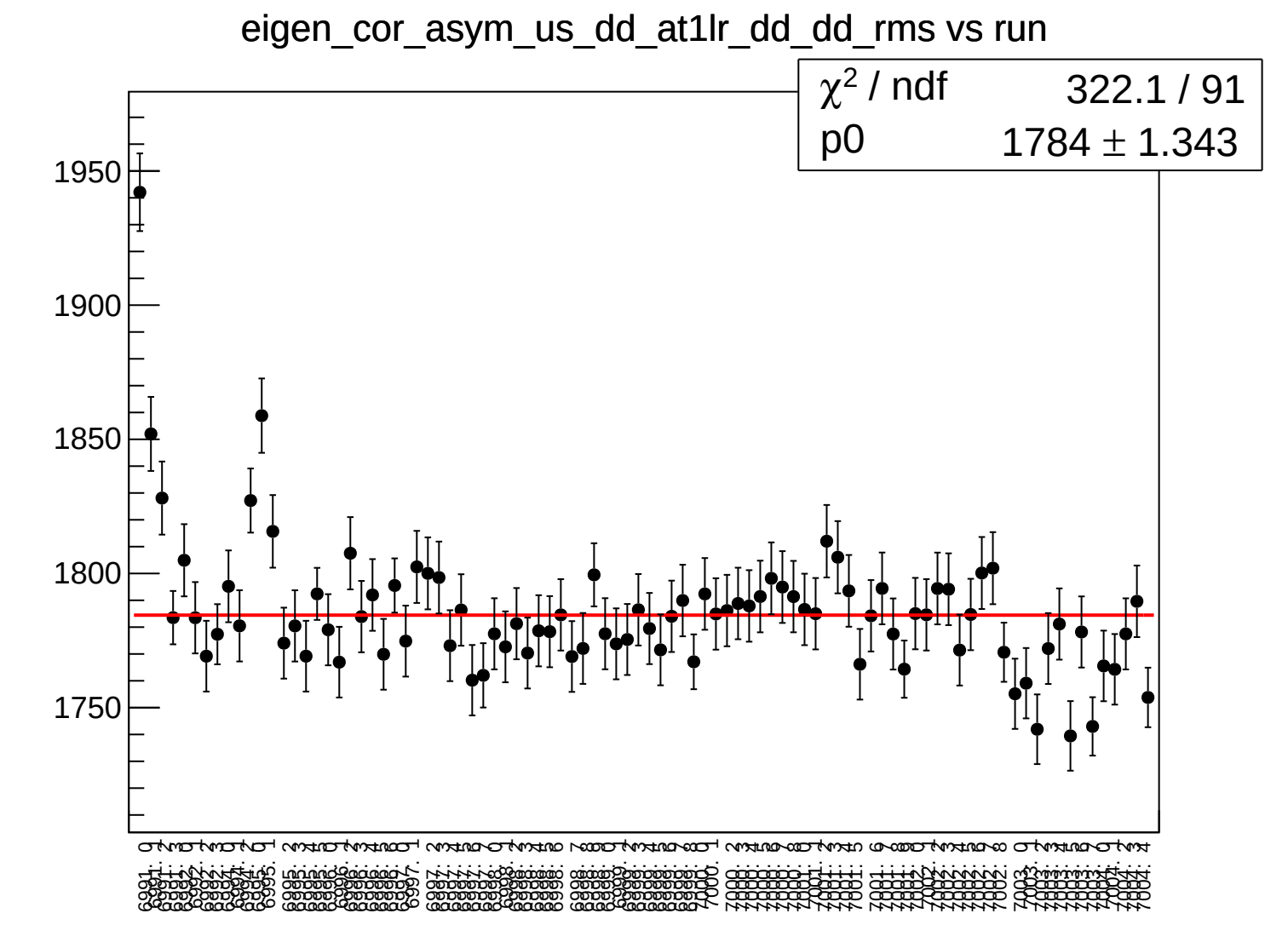

pull1D
Entries 92
Mean 0.005854
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

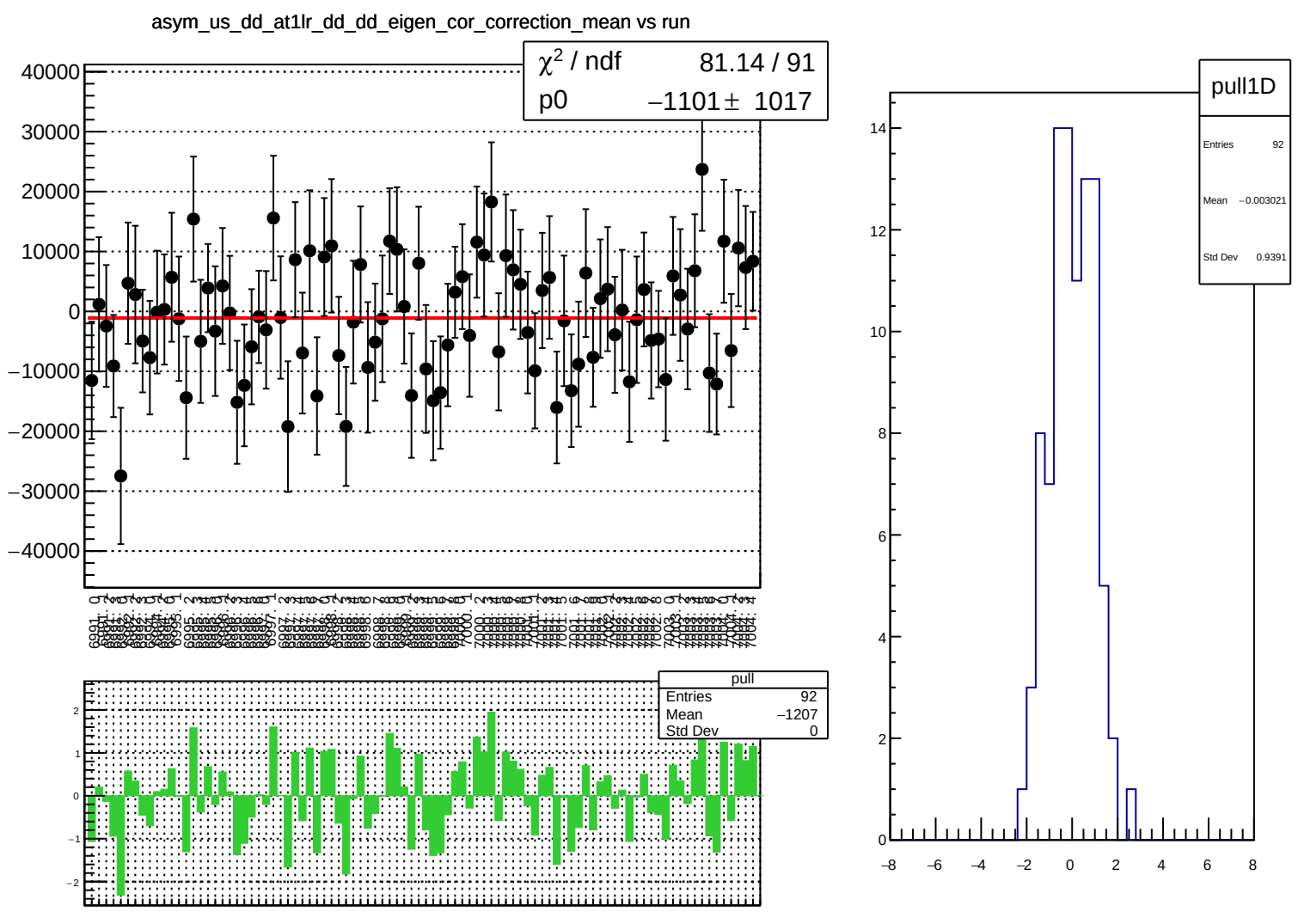

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 322.1 / 91
p0 1784 ± 1.343
1950
1900
1850
1800
1750

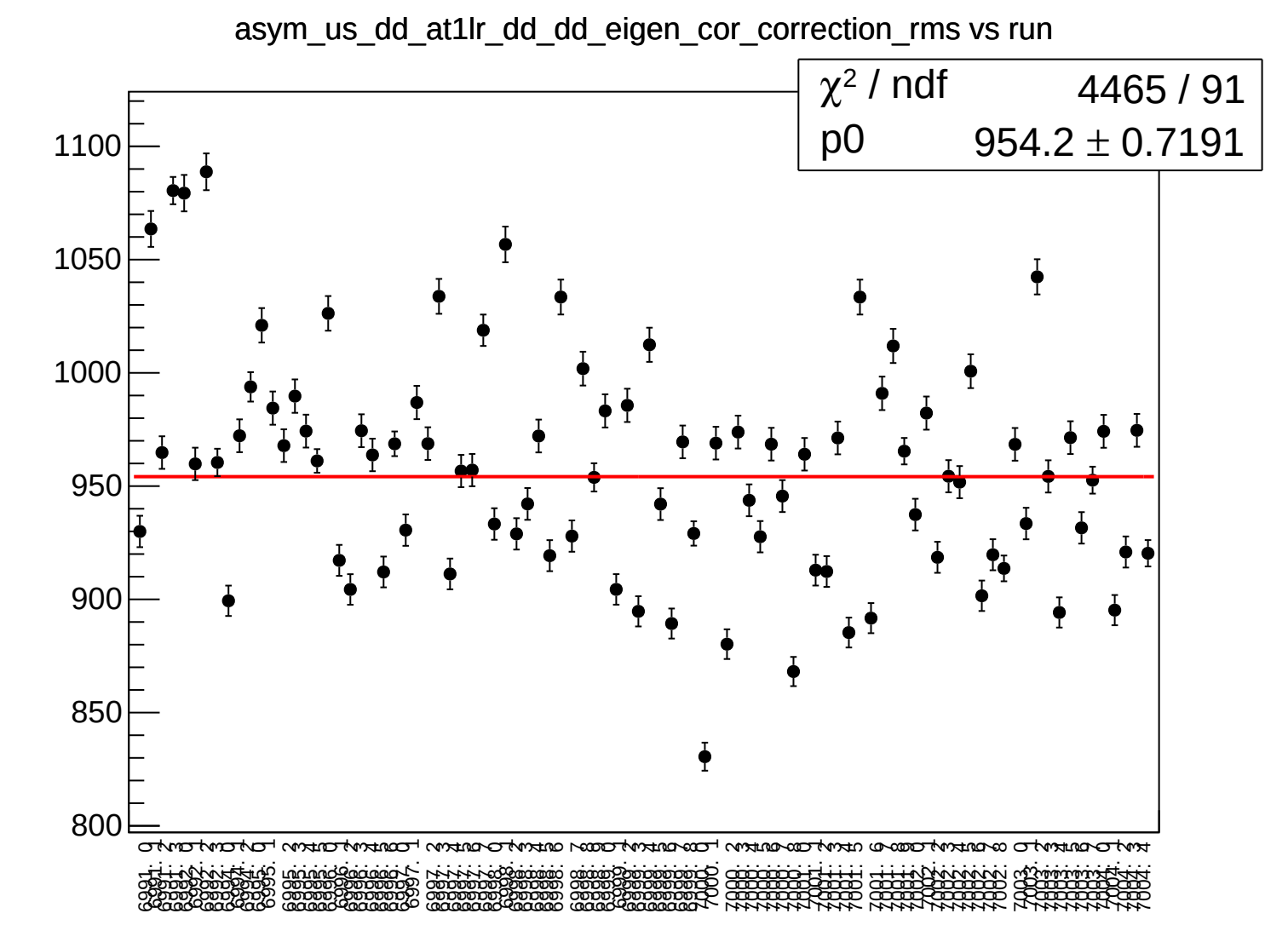

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 81.14 / 91
p0 −1101 ± 1017
pull
Entries 92
Mean −1207
Std Dev 0
pull1D
Entries 92
Mean −0.003021
Std Dev 0.9391

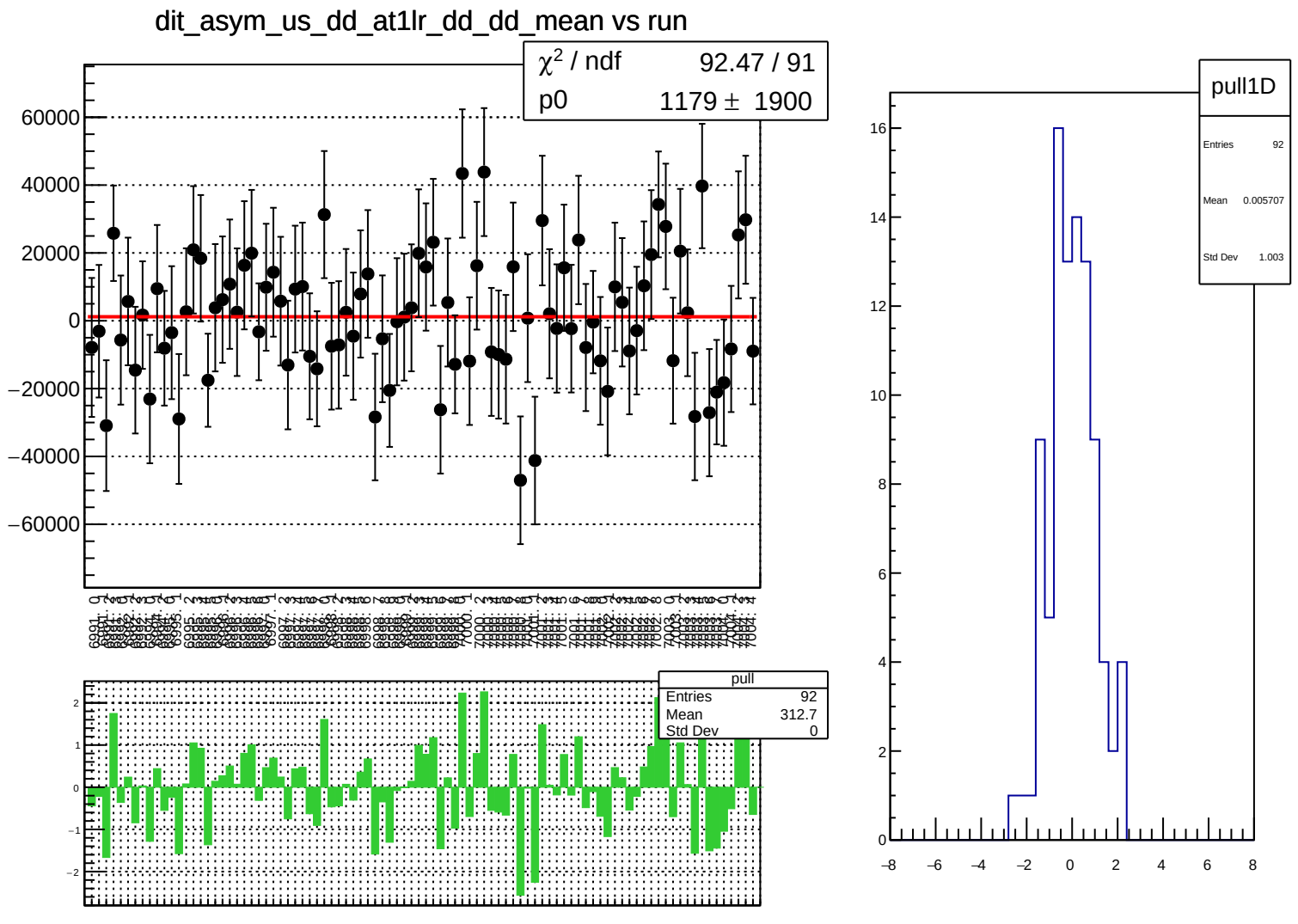

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 4465 / 91
p0 954.2 ± 0.7191
1100
1050
1000
950
900
850
800

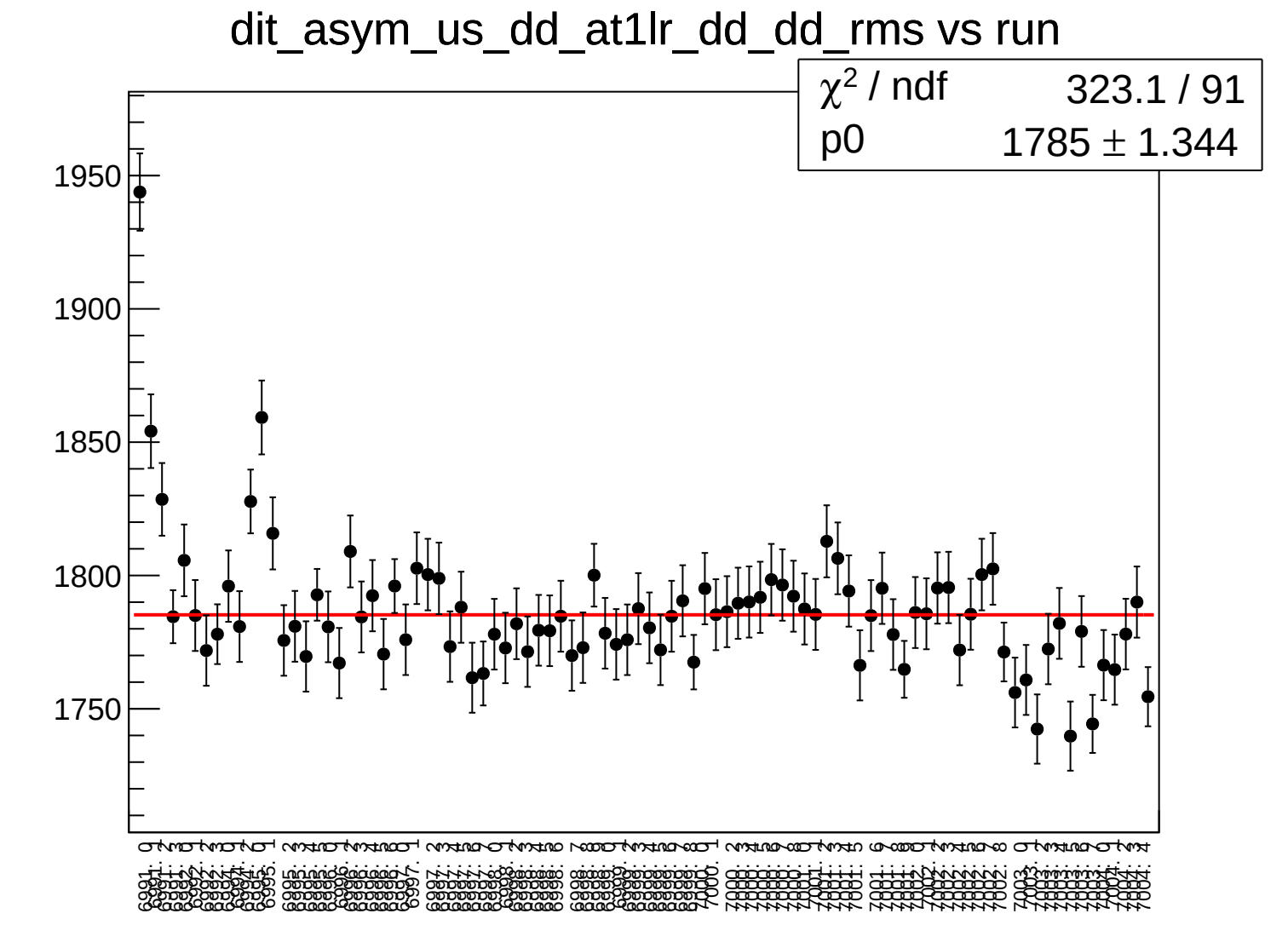

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.23 / 91
p0 1208 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 311.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005854
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

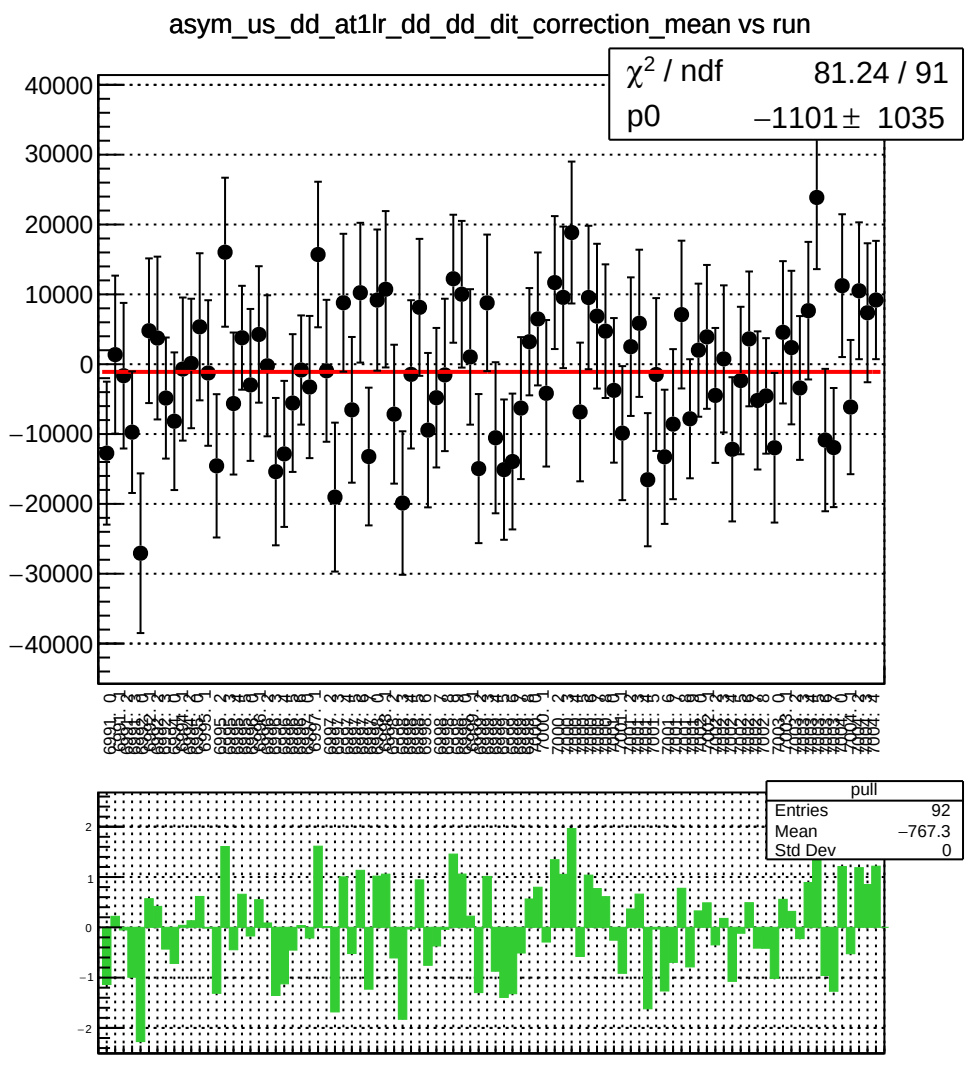

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 322.1 / 91
p0 1784 ± 1.343
1950
1900
1850
1800
1750

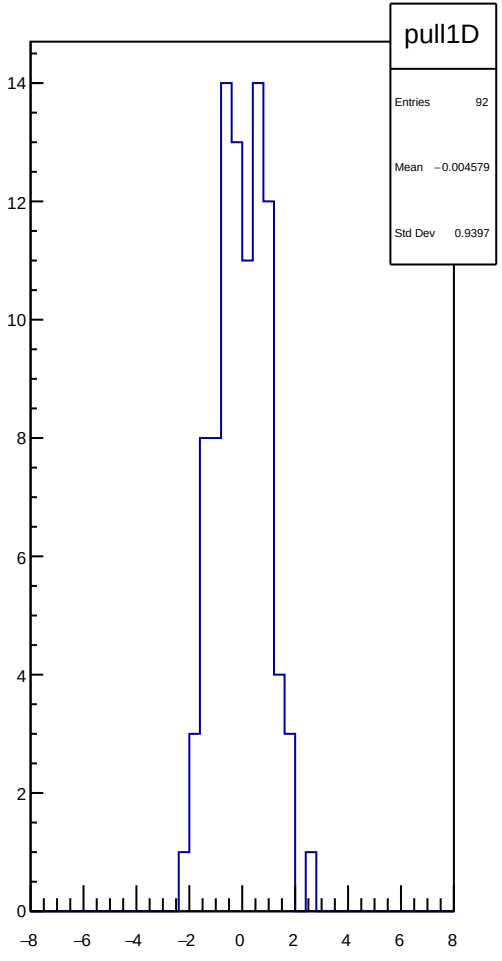

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.14 / 91
p0 −1101 ± 1017
pull
Entries 92
Mean −1207
Std Dev 0
pull1D
Entries 92
Mean −0.003021
Std Dev 0.9391

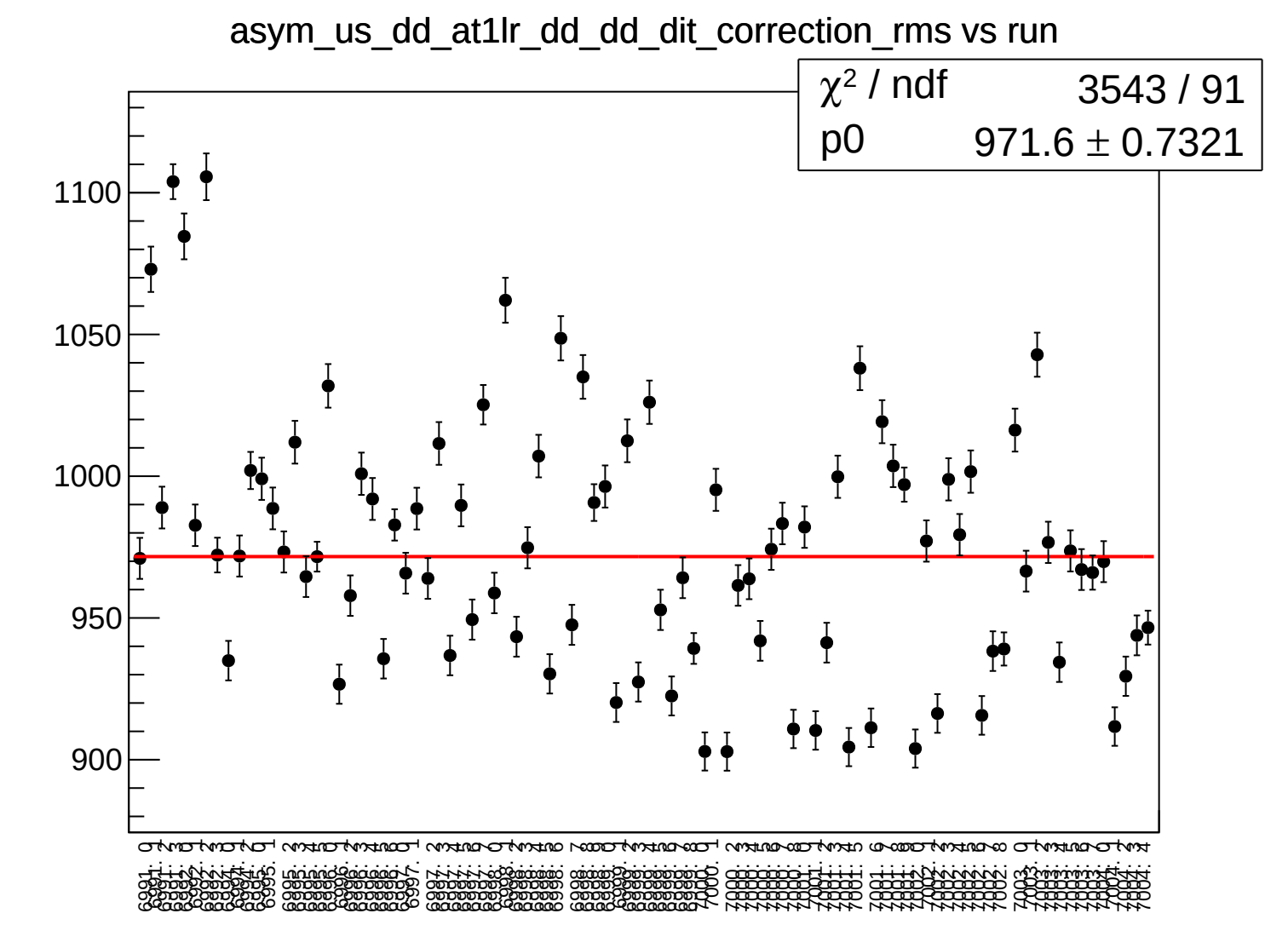

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4465 / 91
p0 954.2 ± 0.7191
1100
1050
1000
950
900
850
800

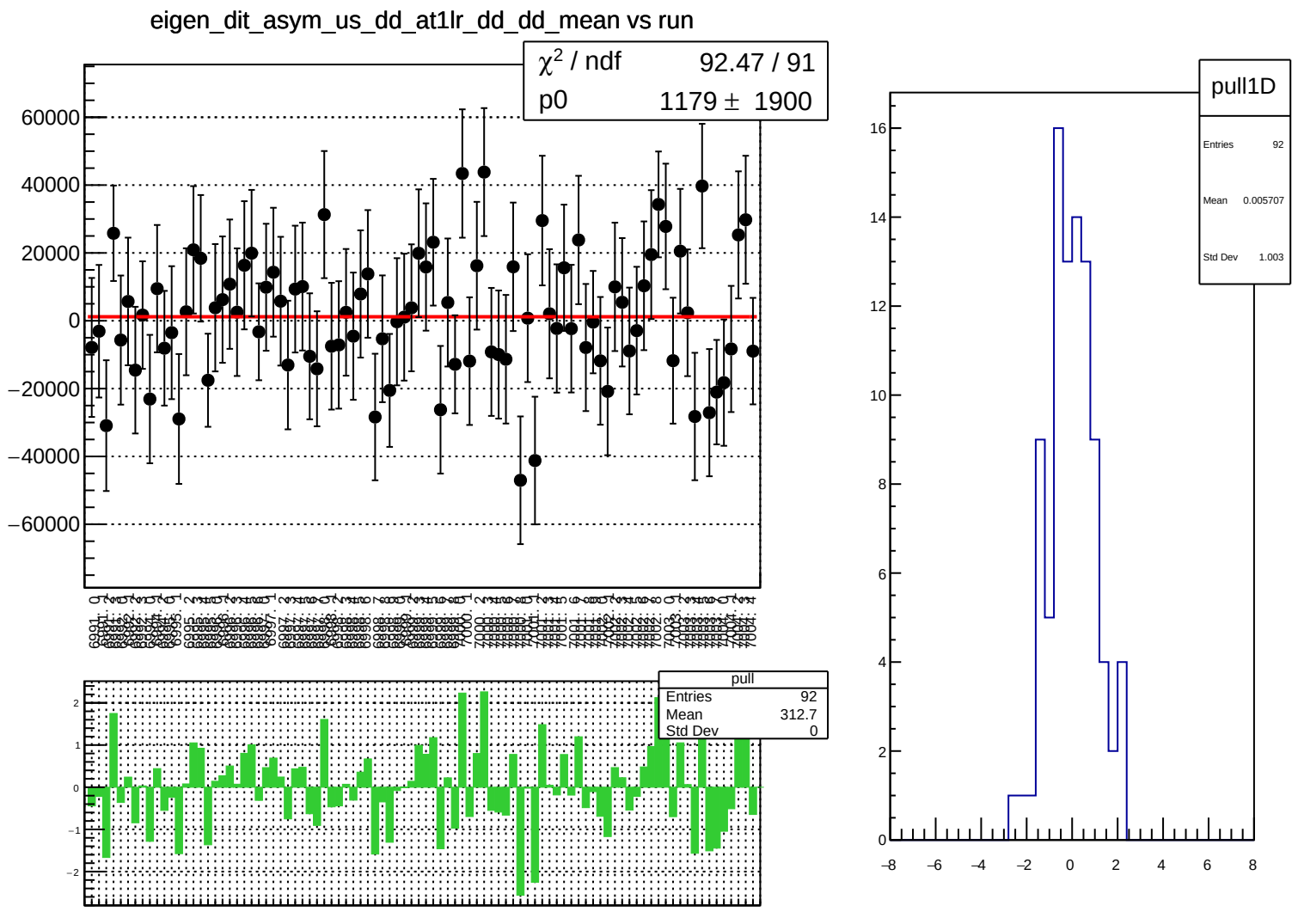

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.47 / 91
p0 1179 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 312.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005707
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

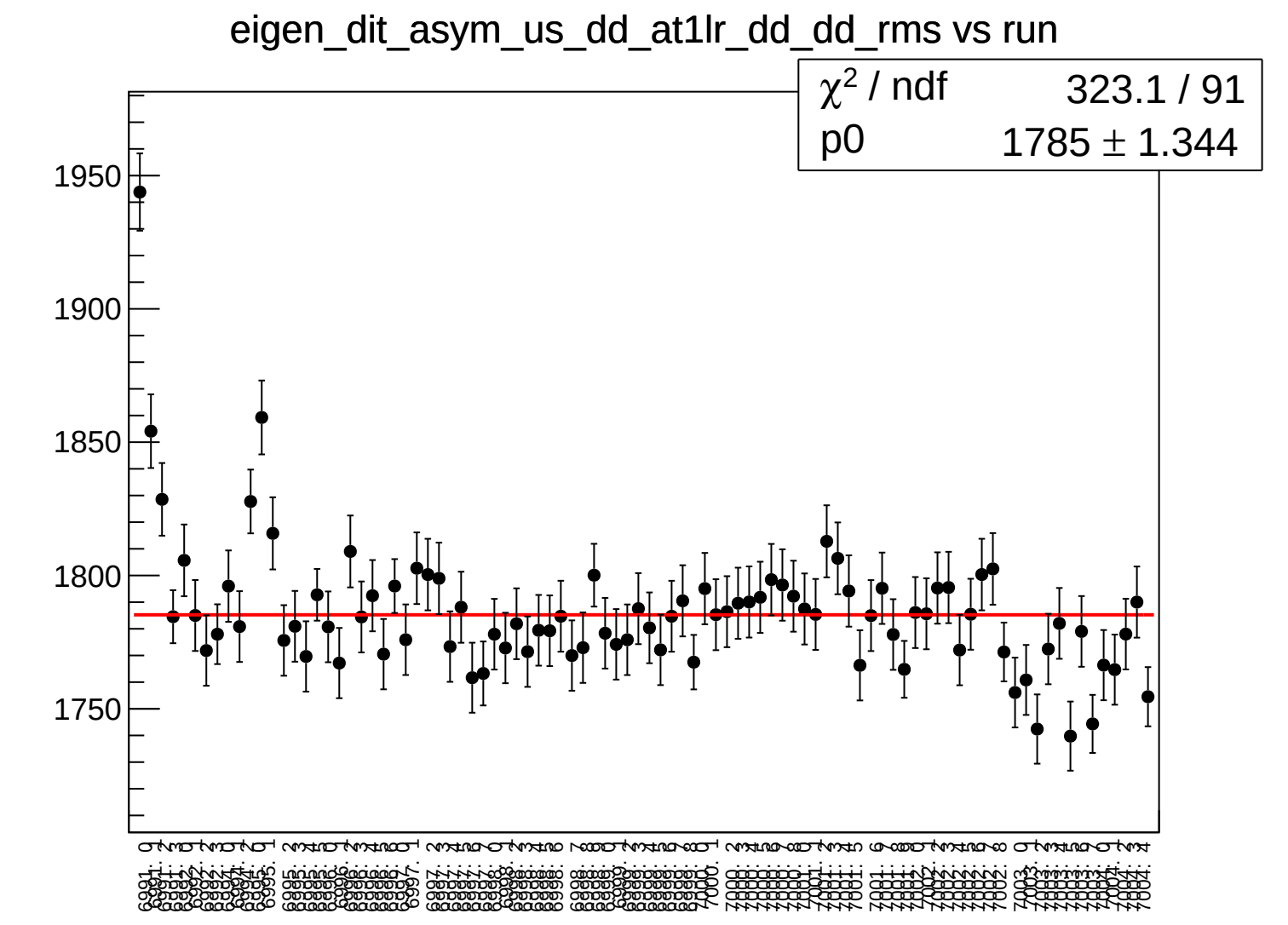

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 323.1 / 91
p0 1785 ± 1.344
1950
1900
1850
1800
1750

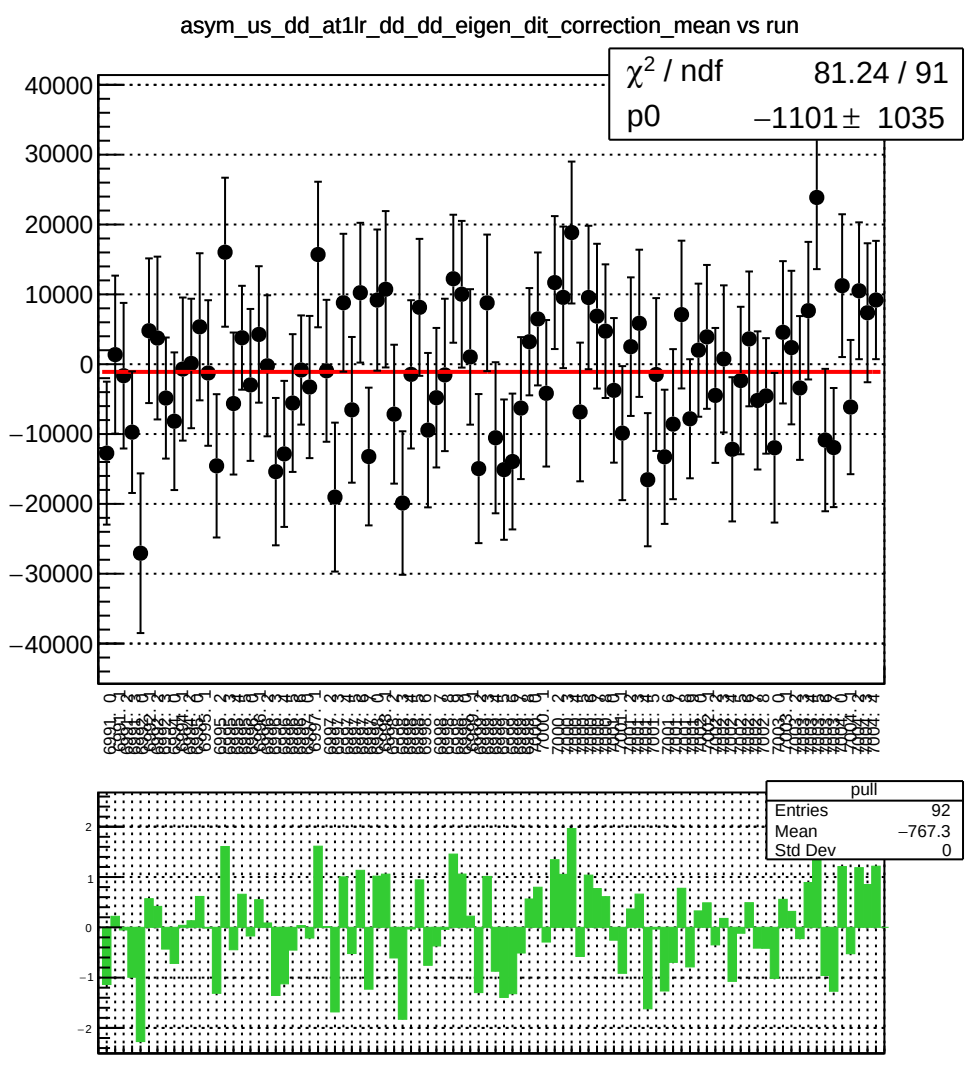

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 81.24 / 91
p0 −1101 ± 1035
pull
Entries 92
Mean −767.3
Std Dev 0

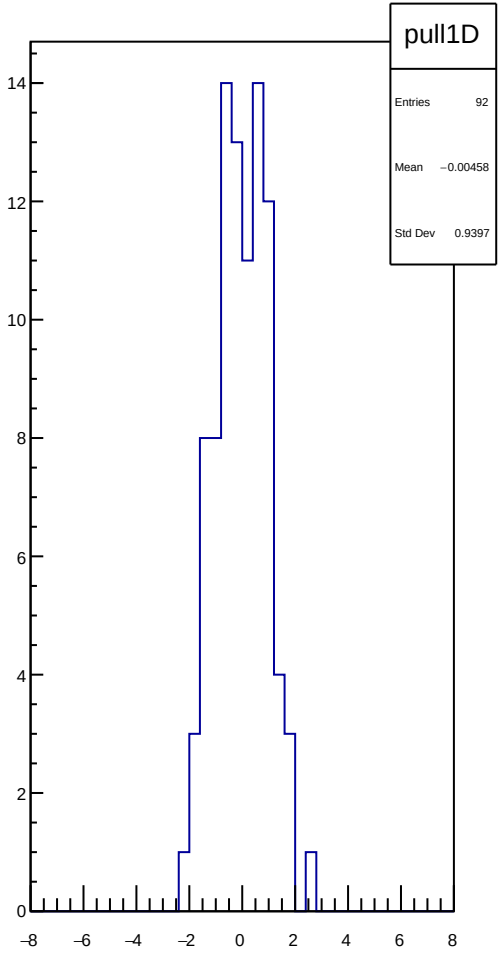

pull1D
Entries 92
Mean −0.004579
Std Dev 0.9397

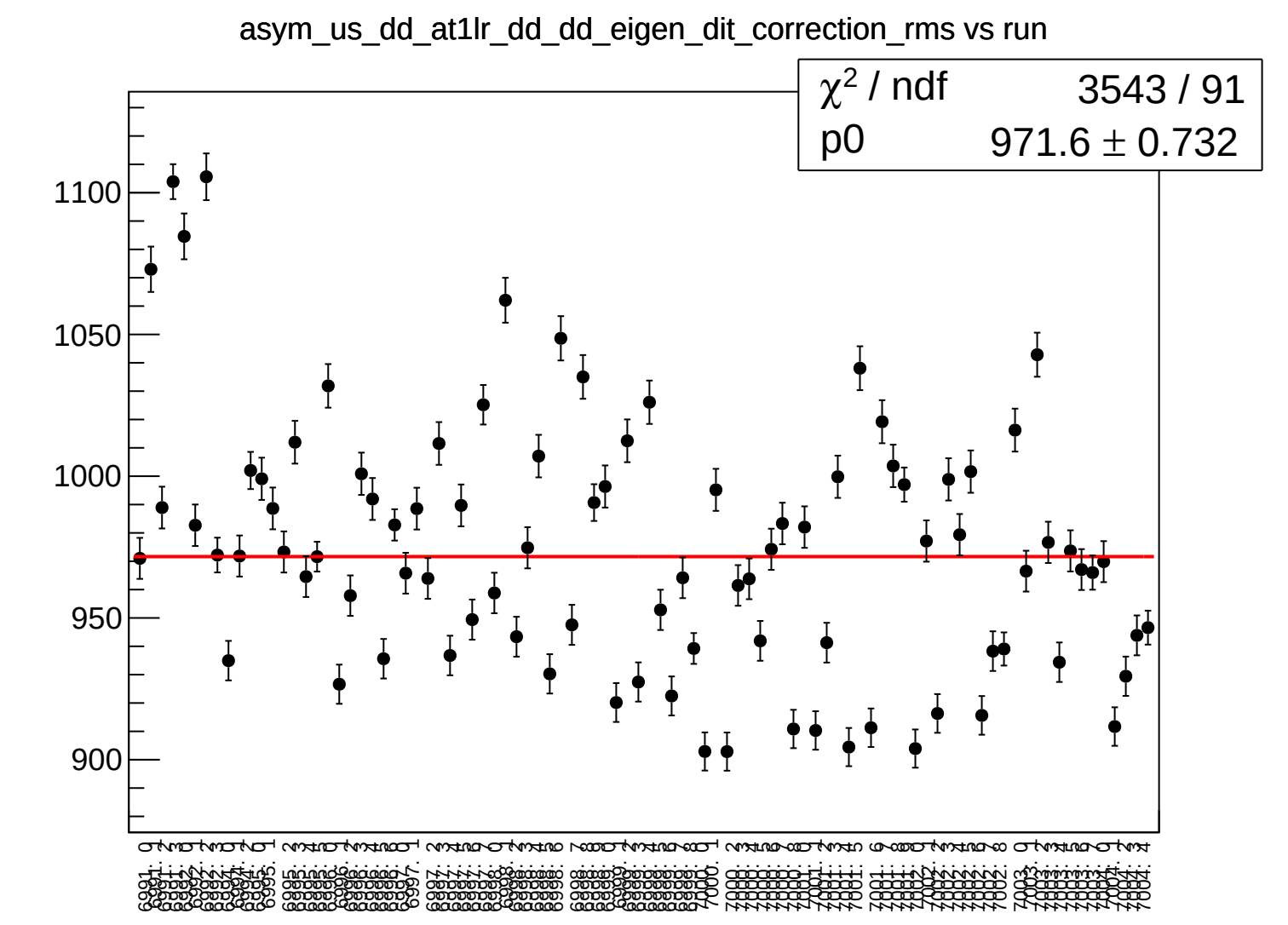

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3543 / 91
p0 971.6 ± 0.7321
1100
1050
1000
950
900

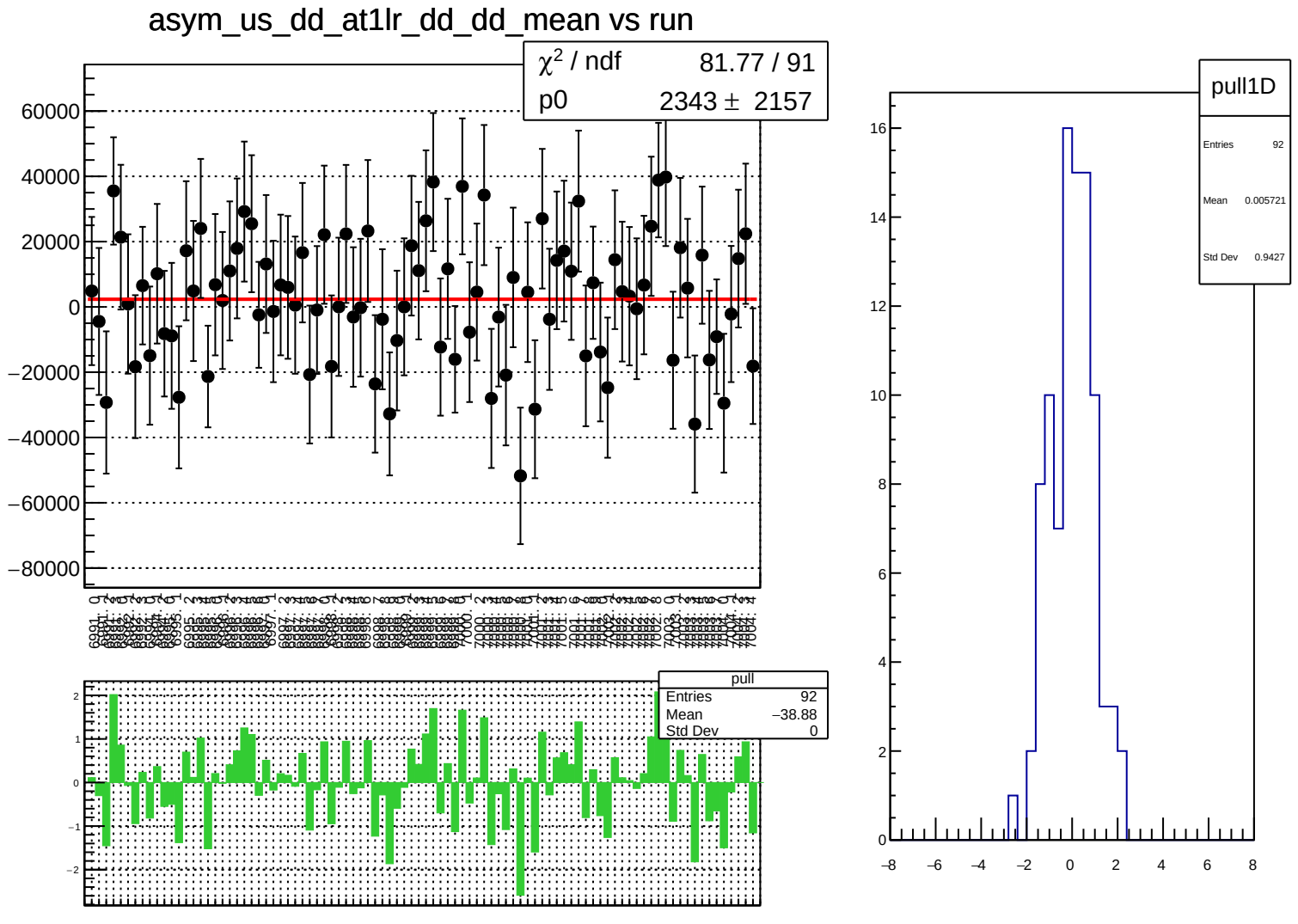

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.47 / 91
p0 1179 ± 1900
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 312.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005707
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

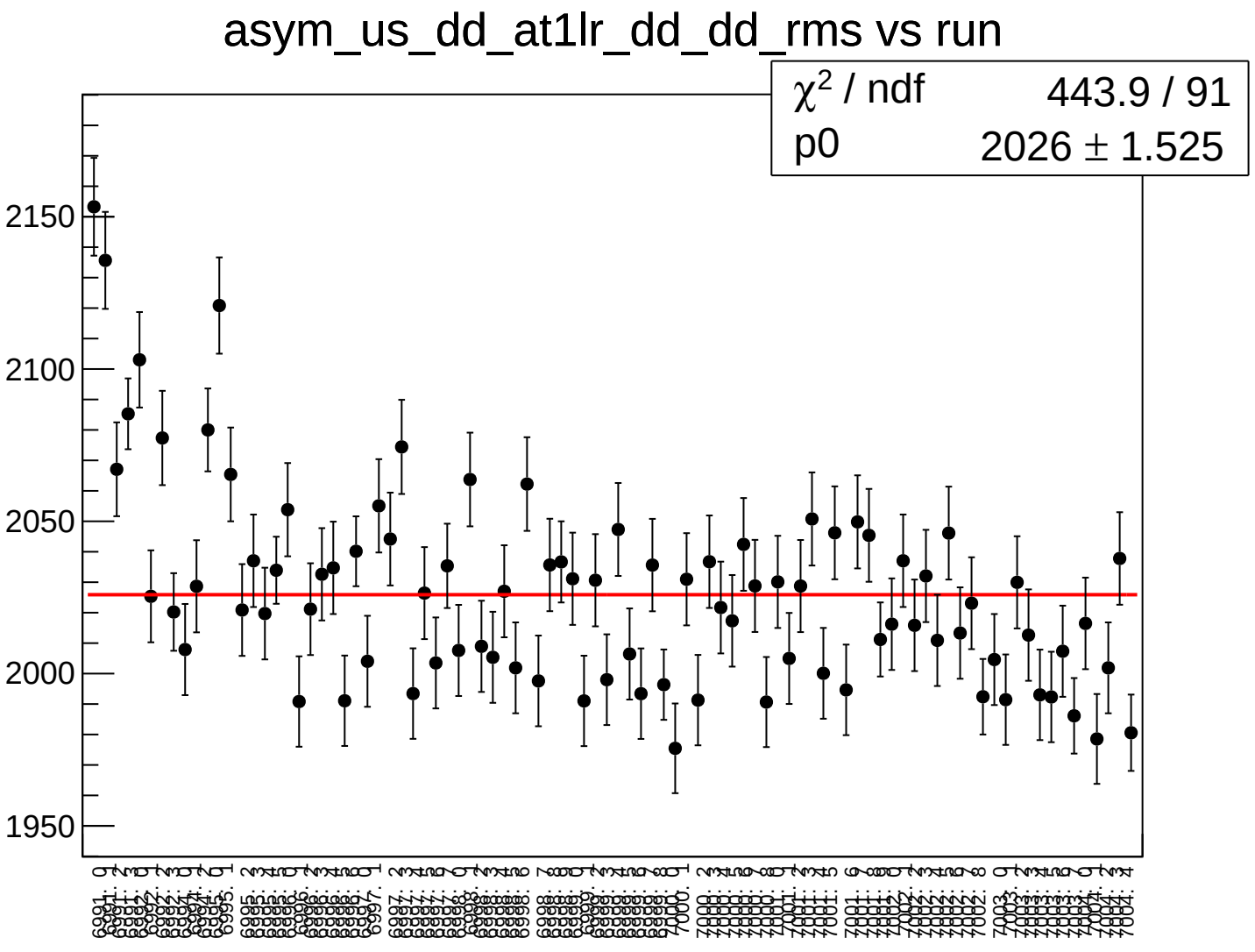

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 323.1 / 91
p0 1785 ± 1.344
1950
1900
1850
1800
1750

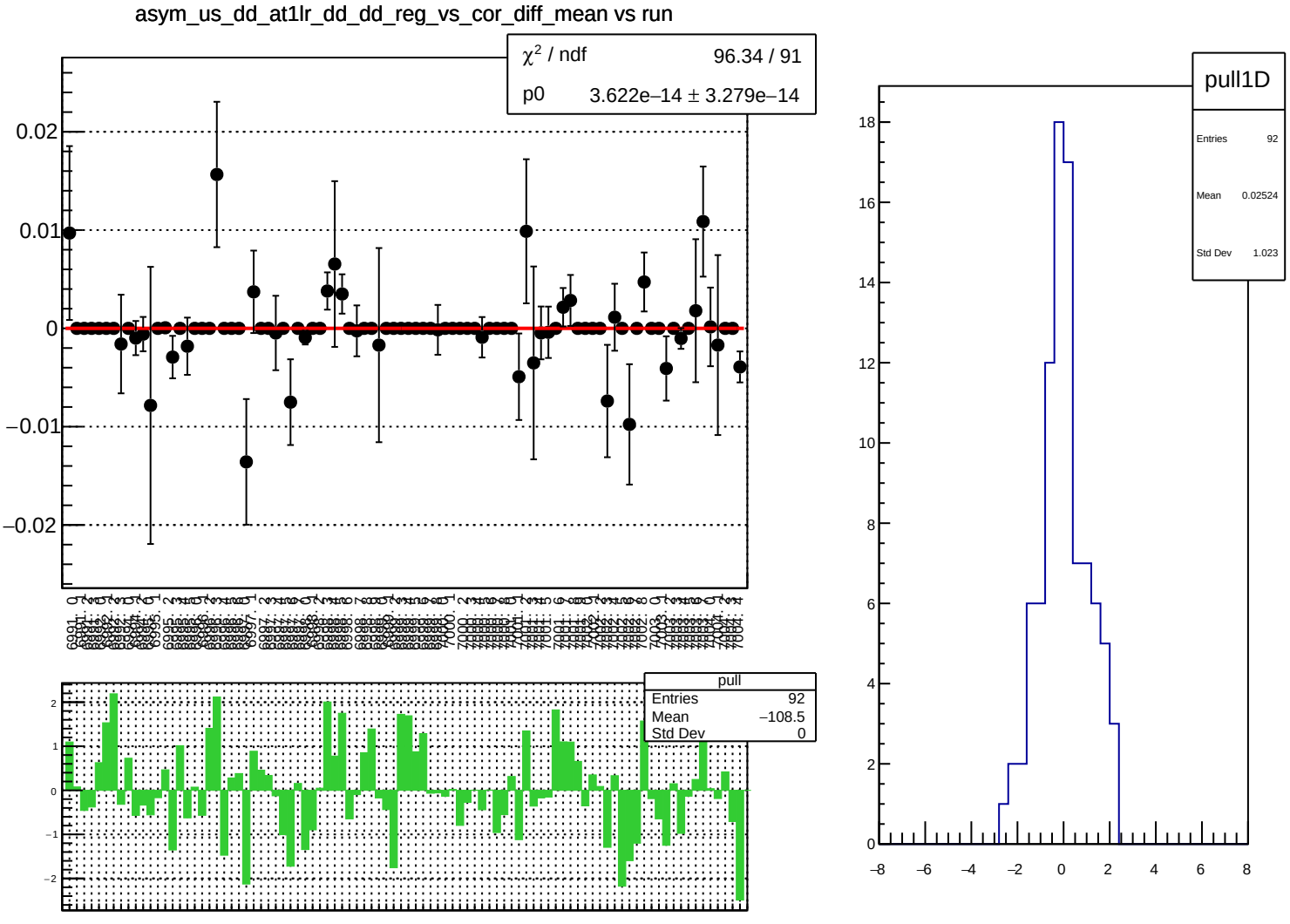

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.24 / 91
p0 −1101 ± 1035
pull
Entries 92
Mean −767.3
Std Dev 0

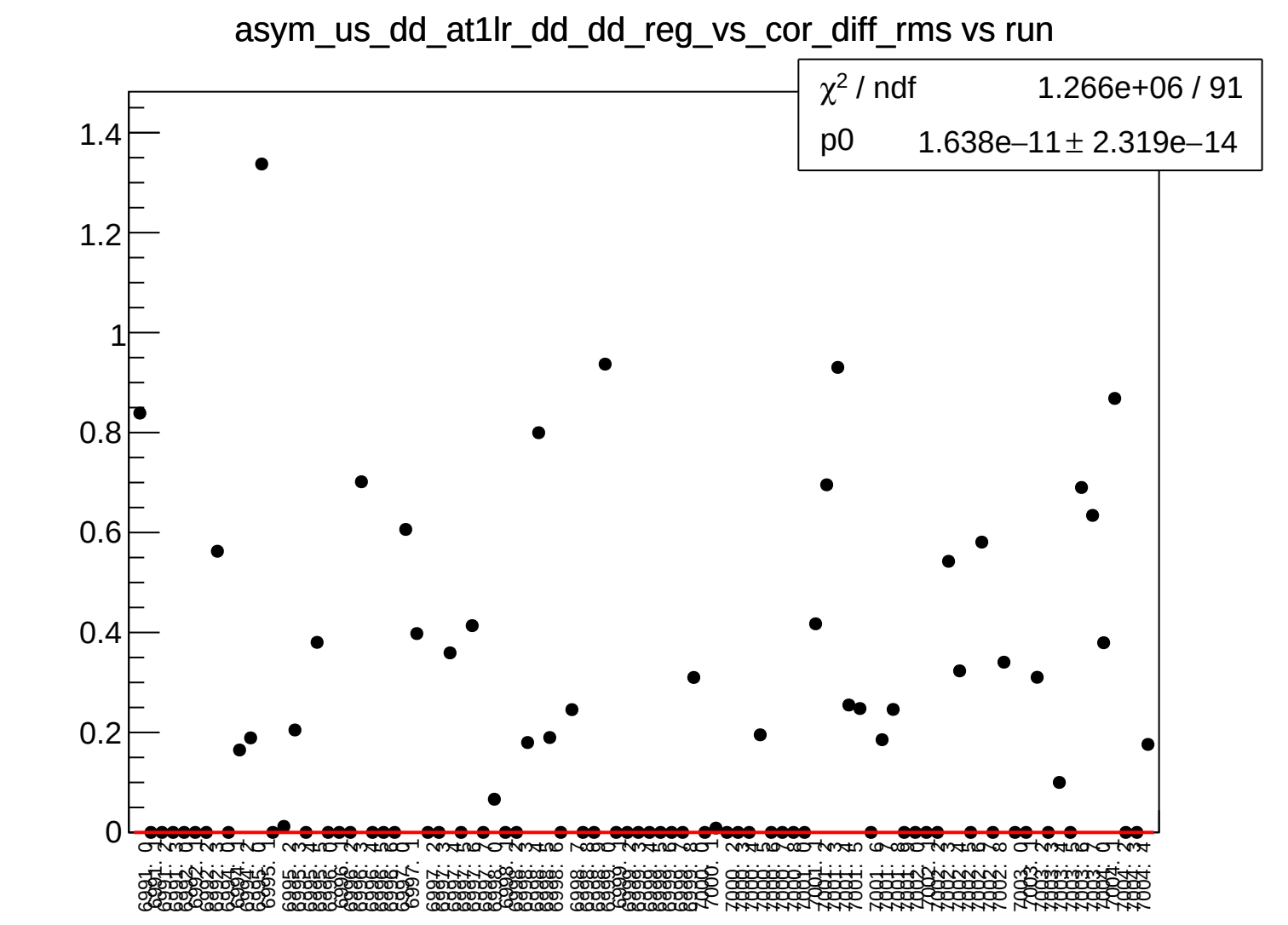

pull1D
Entries 92
Mean −0.00458
Std Dev 0.9397

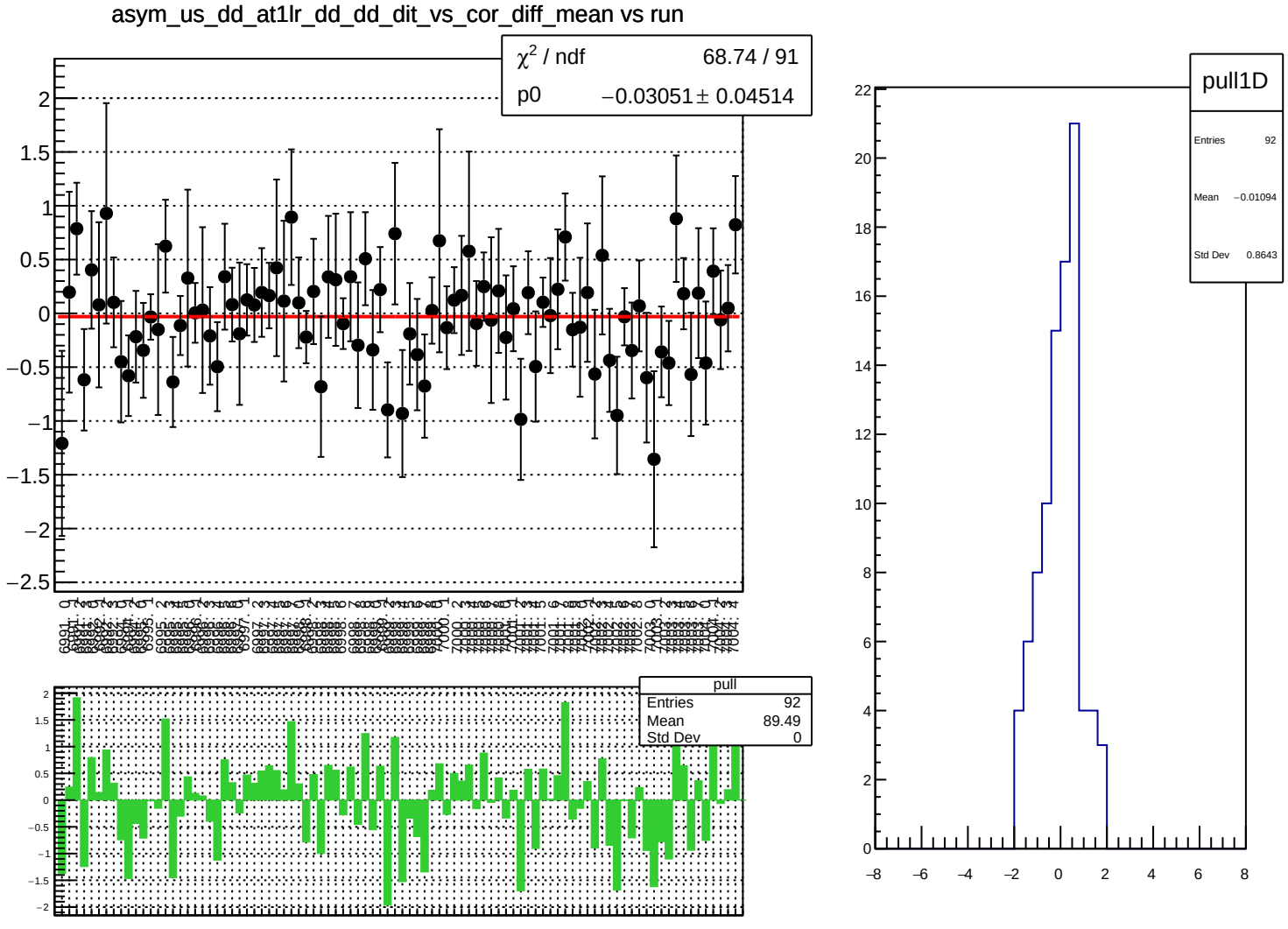

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3543 / 91
p0 971.6 ± 0.732
1100
1050
1000
950
900

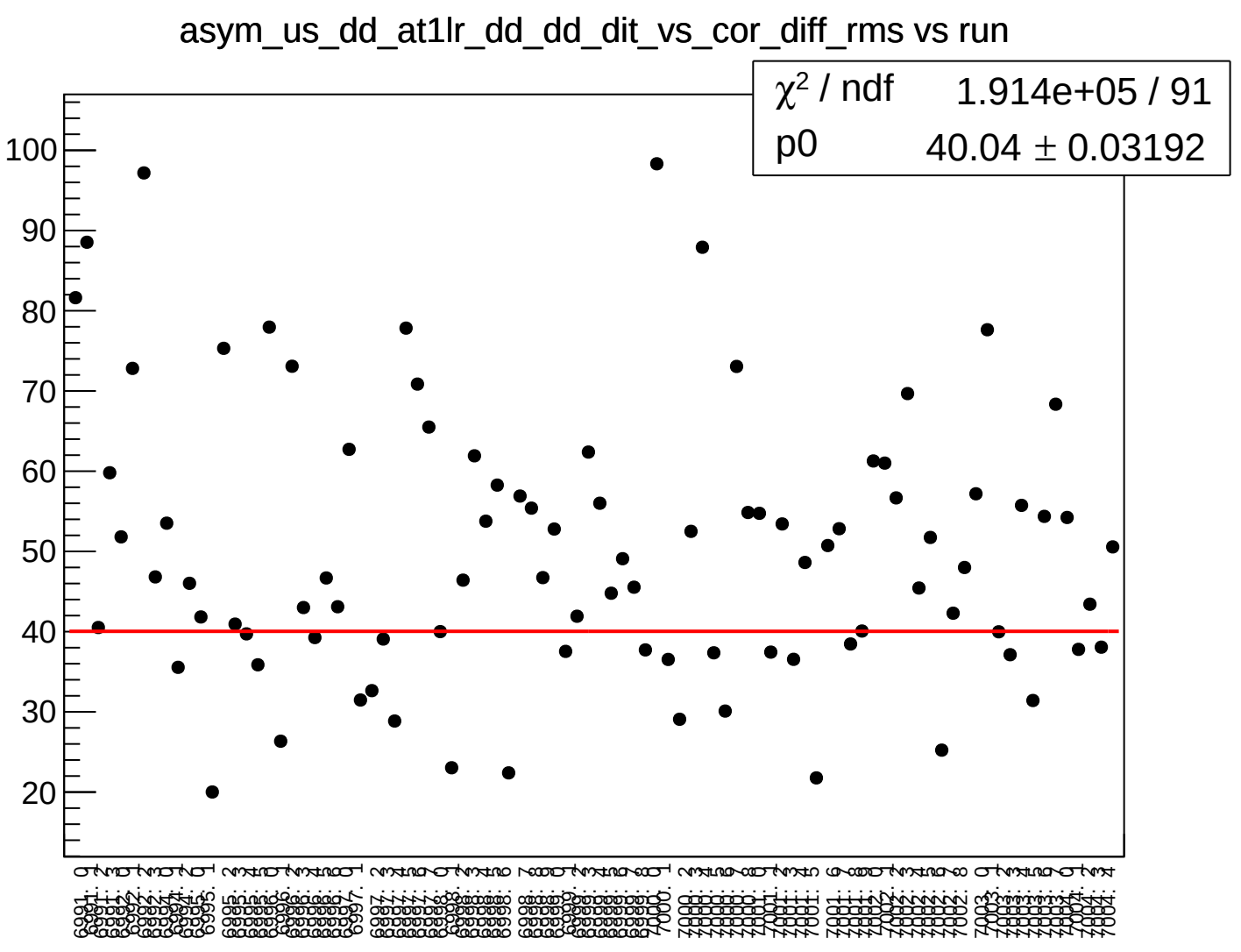

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 81.77 / 91
p0 2343 ± 2157
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −38.88
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005721
Std Dev 0.9427
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

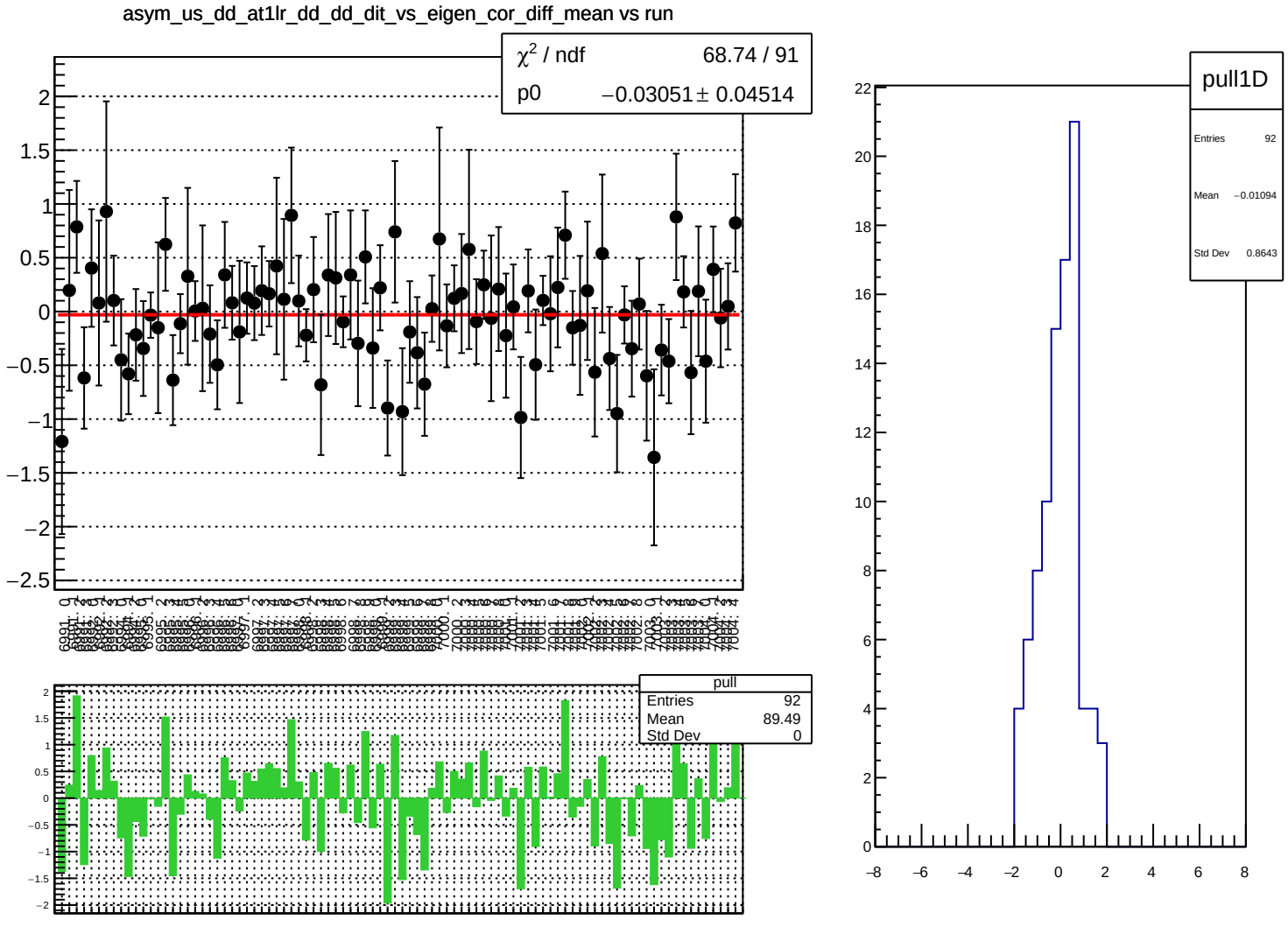

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 443.9 / 91
p0 2026 ± 1.525
2150
2100
2050
2000
1950

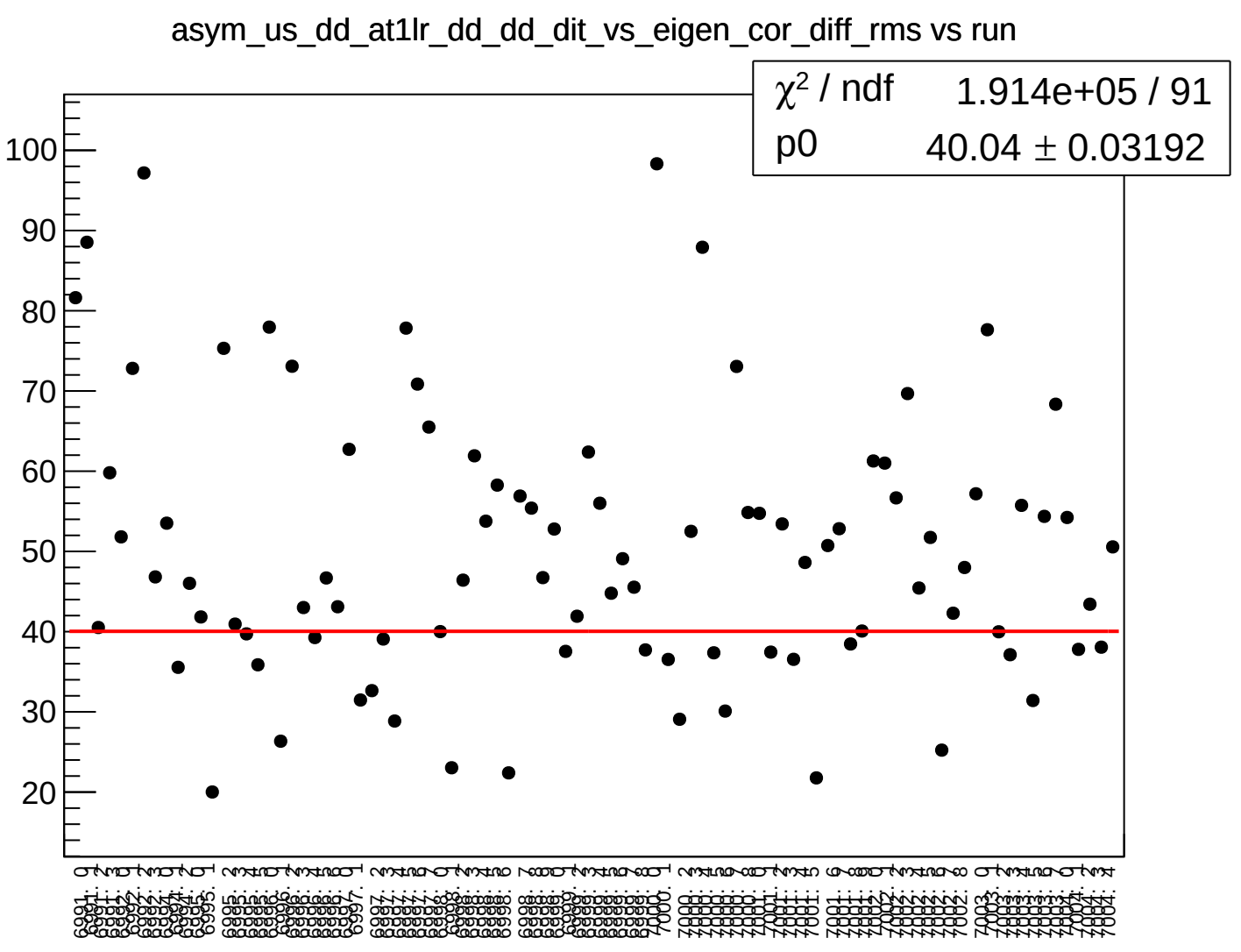

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.34 / 91
p0 3.622e−14 ± 3.279e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −108.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.02524
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

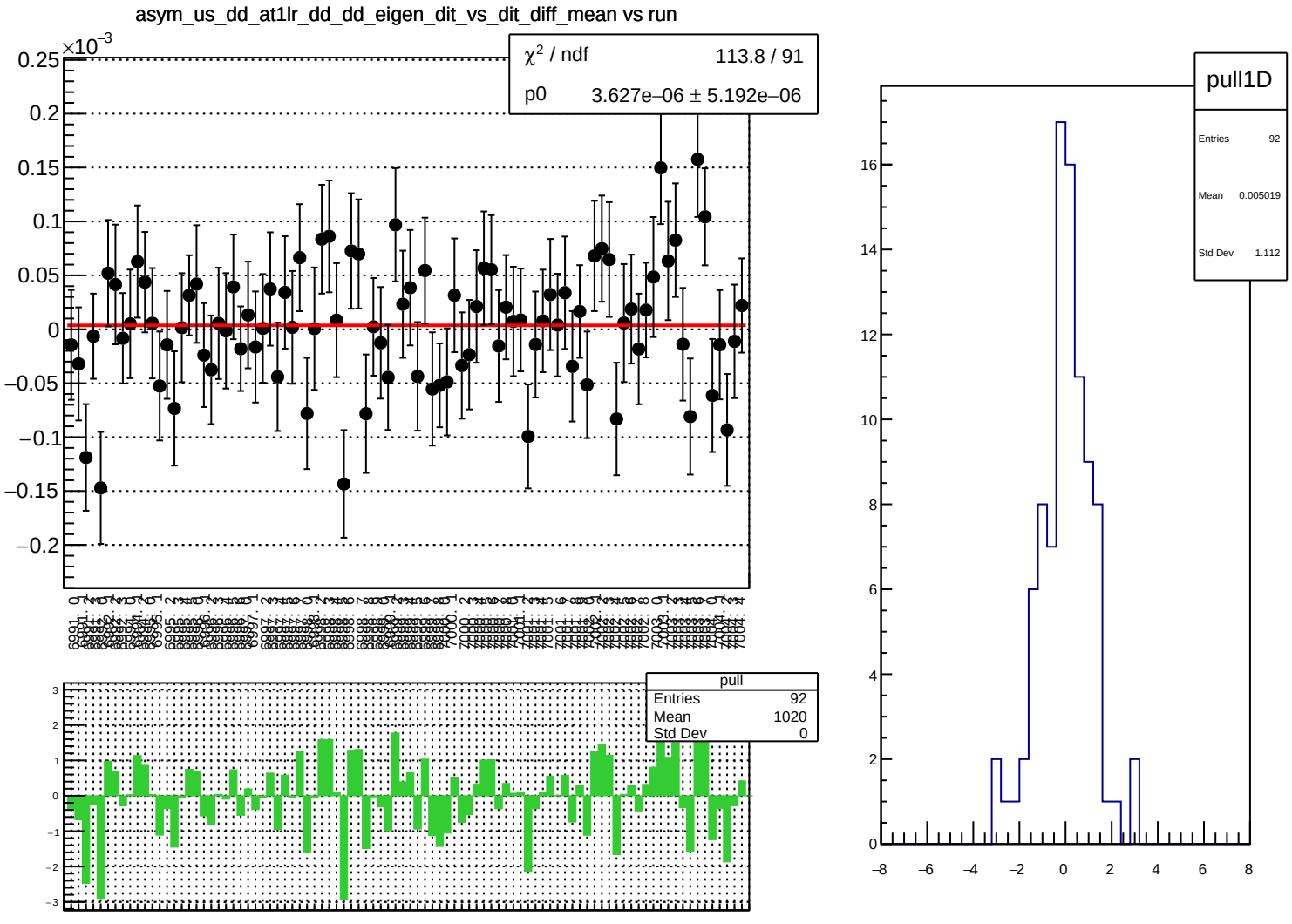

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.266e+06 / 91
p0 1.638e−11 ± 2.319e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

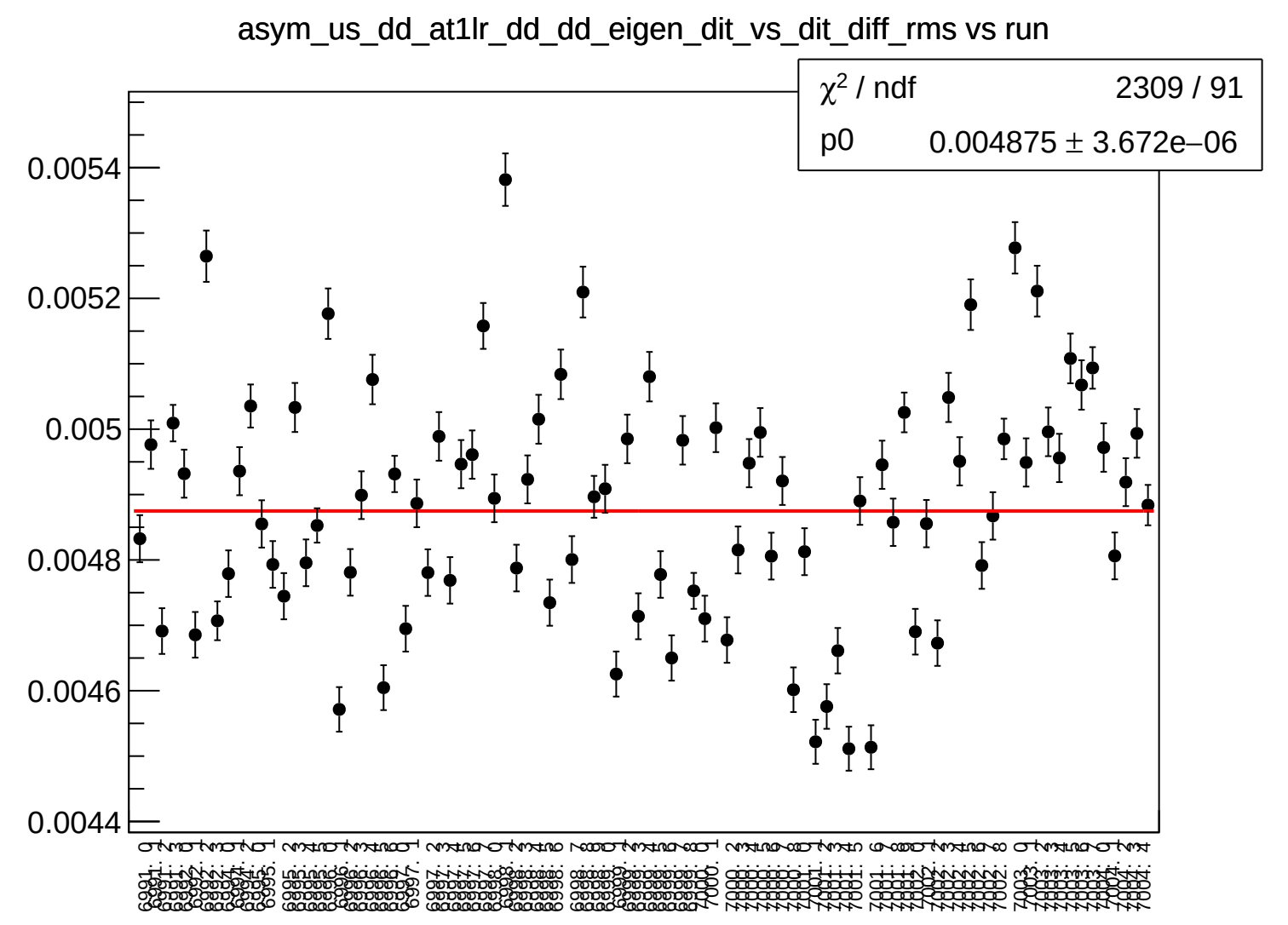

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.74 / 91
p0 −0.03051 ± 0.04514
pull
Entries 92
Mean 89.49
Std Dev 0
pull1D
Entries 92
Mean −0.01094
Std Dev 0.8643

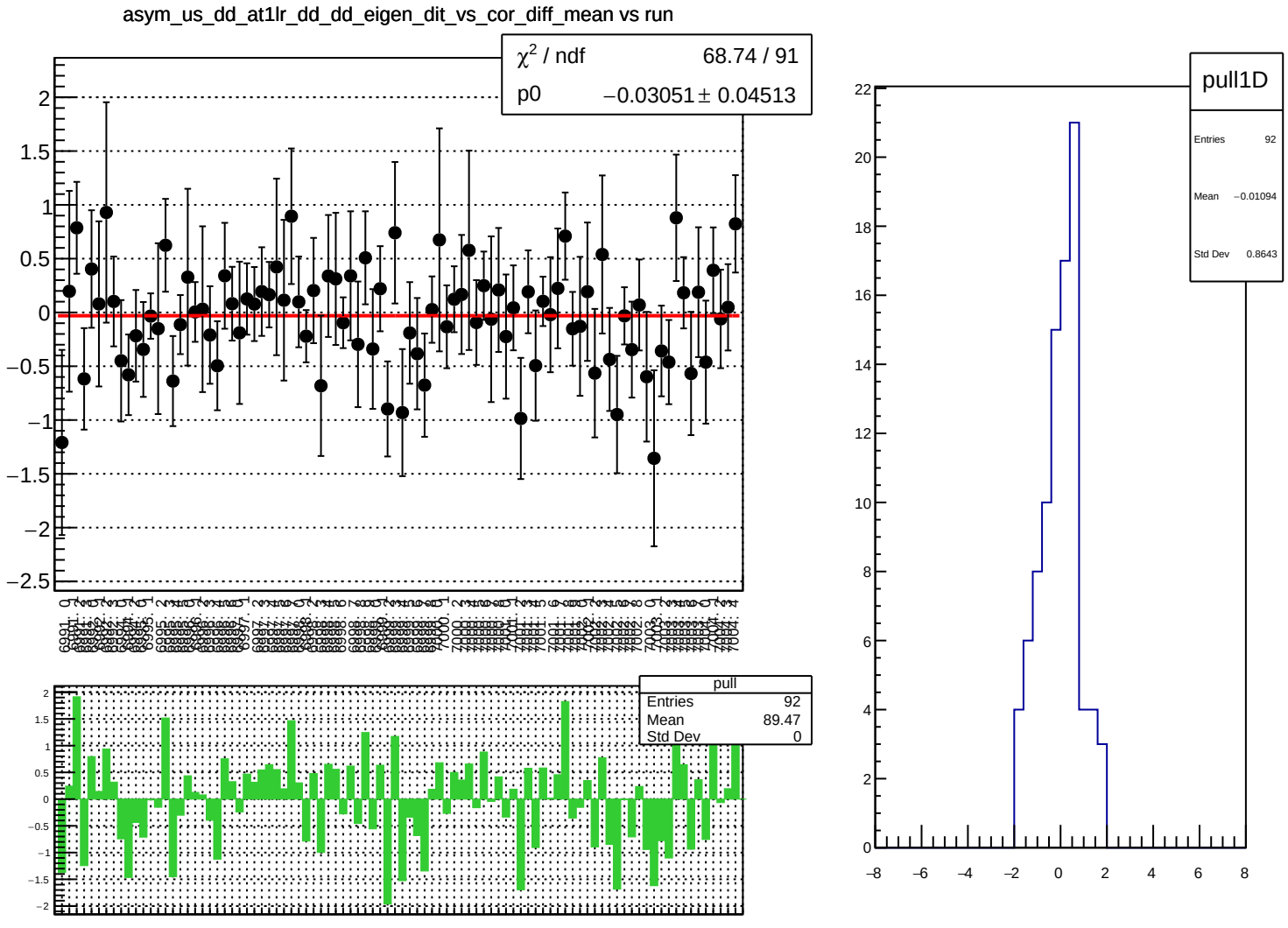

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.914e+05 / 91
p0 40.04 ± 0.03192
100
90
80
70
60
50
40
30
20

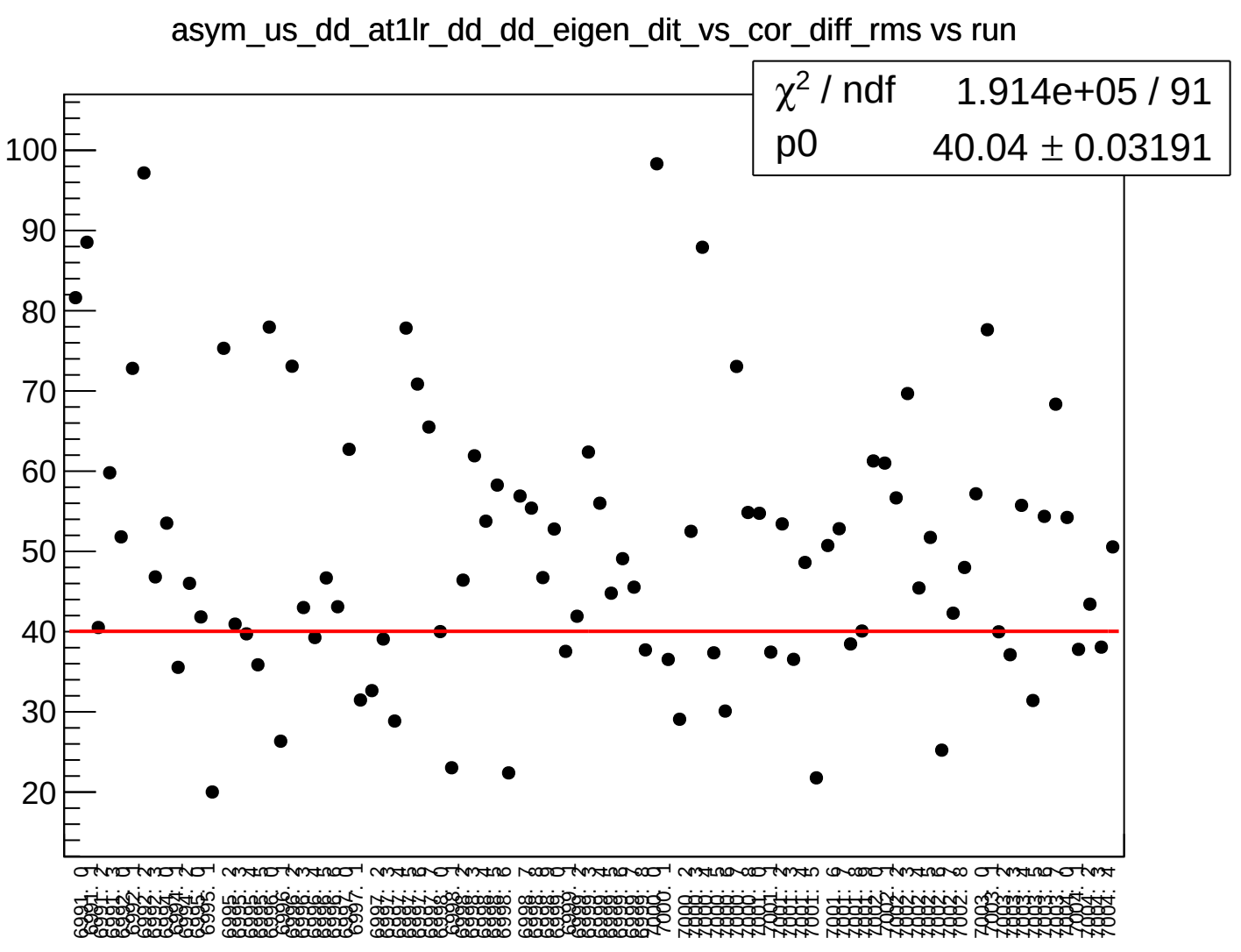

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.74 / 91
p0 −0.03051 ± 0.04514
pull
Entries 92
Mean 89.49
Std Dev 0
pull1D
Entries 92
Mean −0.01094
Std Dev 0.8643

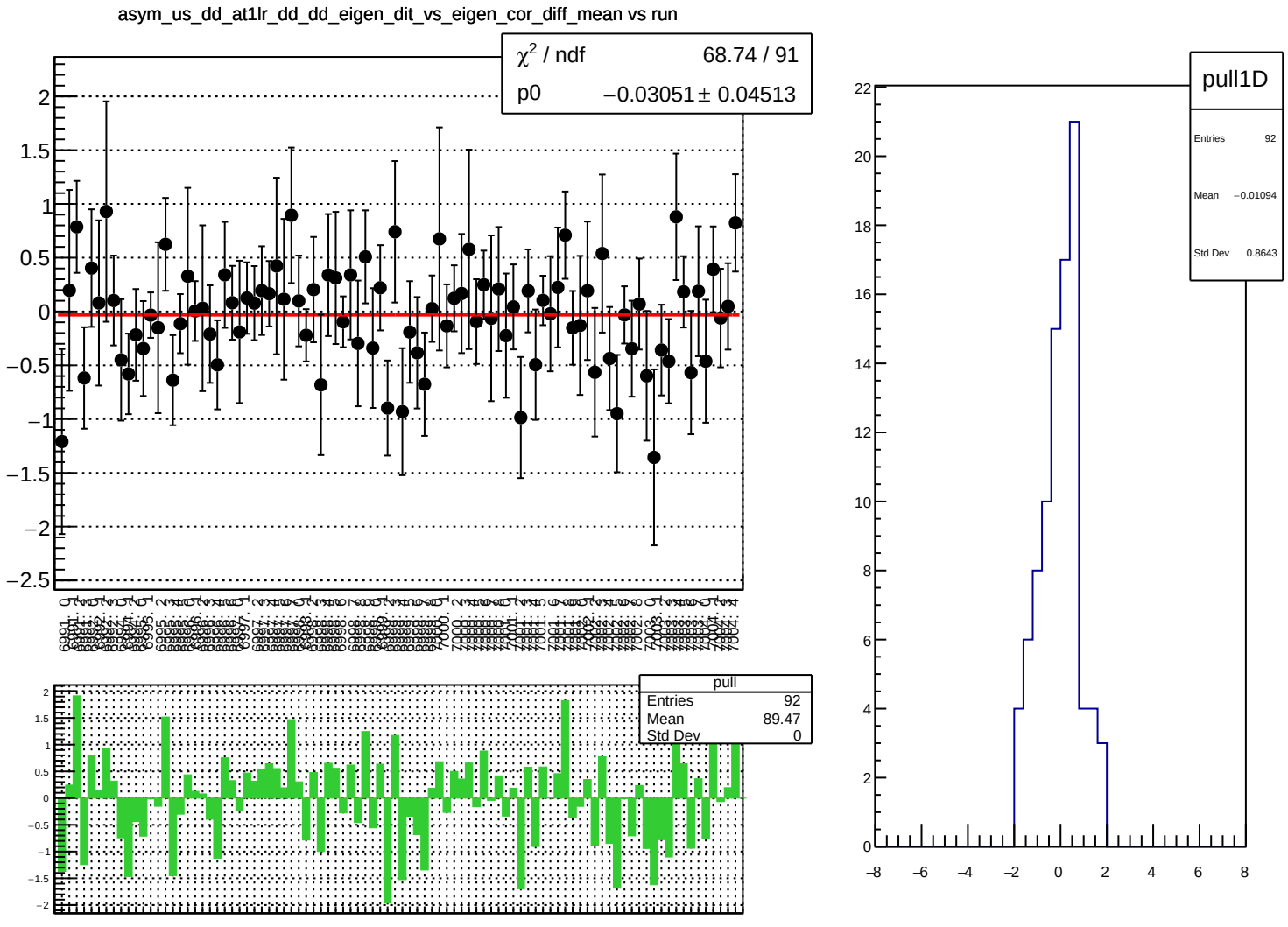

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.914e+05 / 91
p0 40.04 ± 0.03192
100
90
80
70
60
50
40
30
20

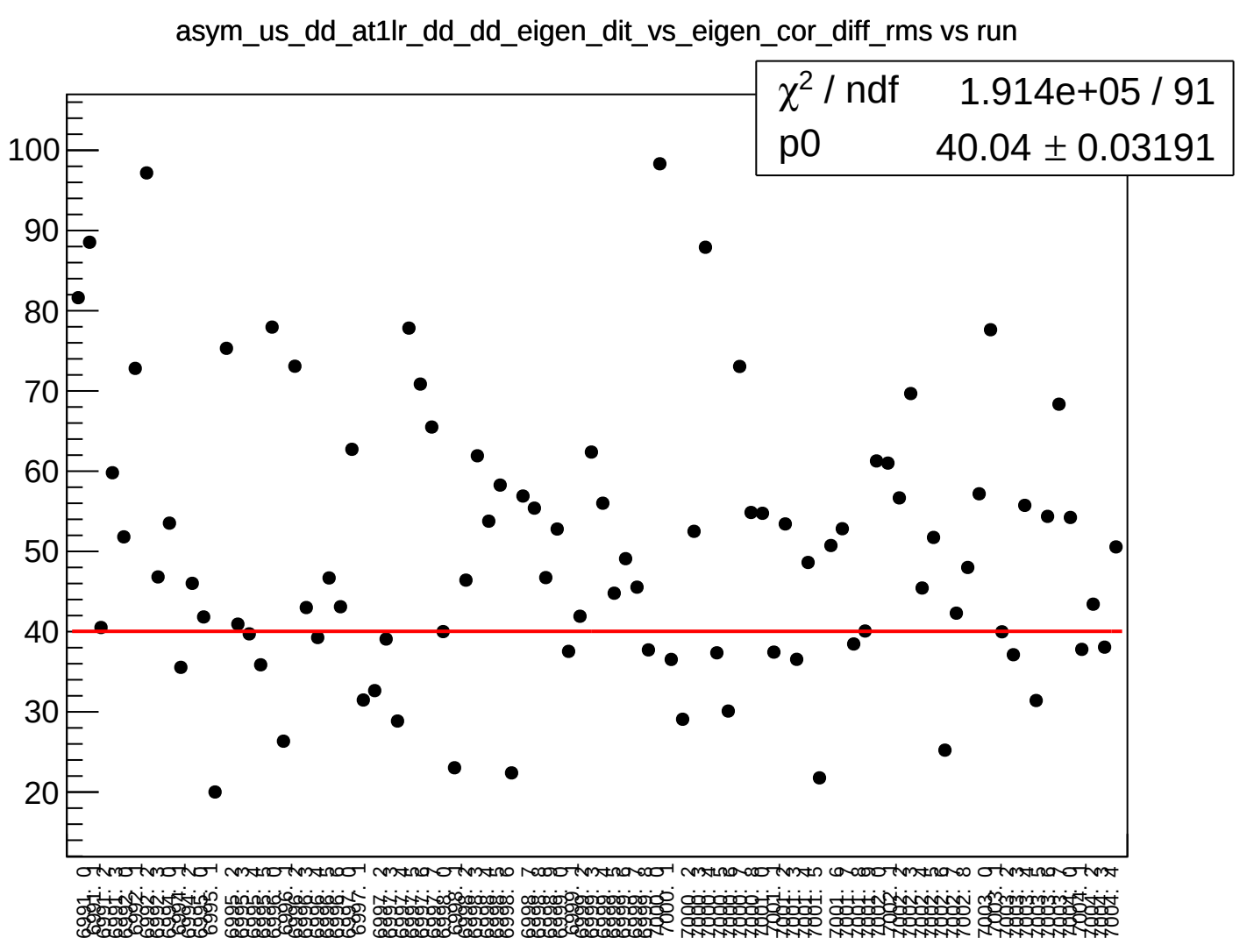

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.8 / 91
p0 3.627e−06 ± 5.192e−06
pull
Entries 92
Mean 1020
Std Dev 0
pull1D
Entries 92
Mean 0.005019
Std Dev 1.112

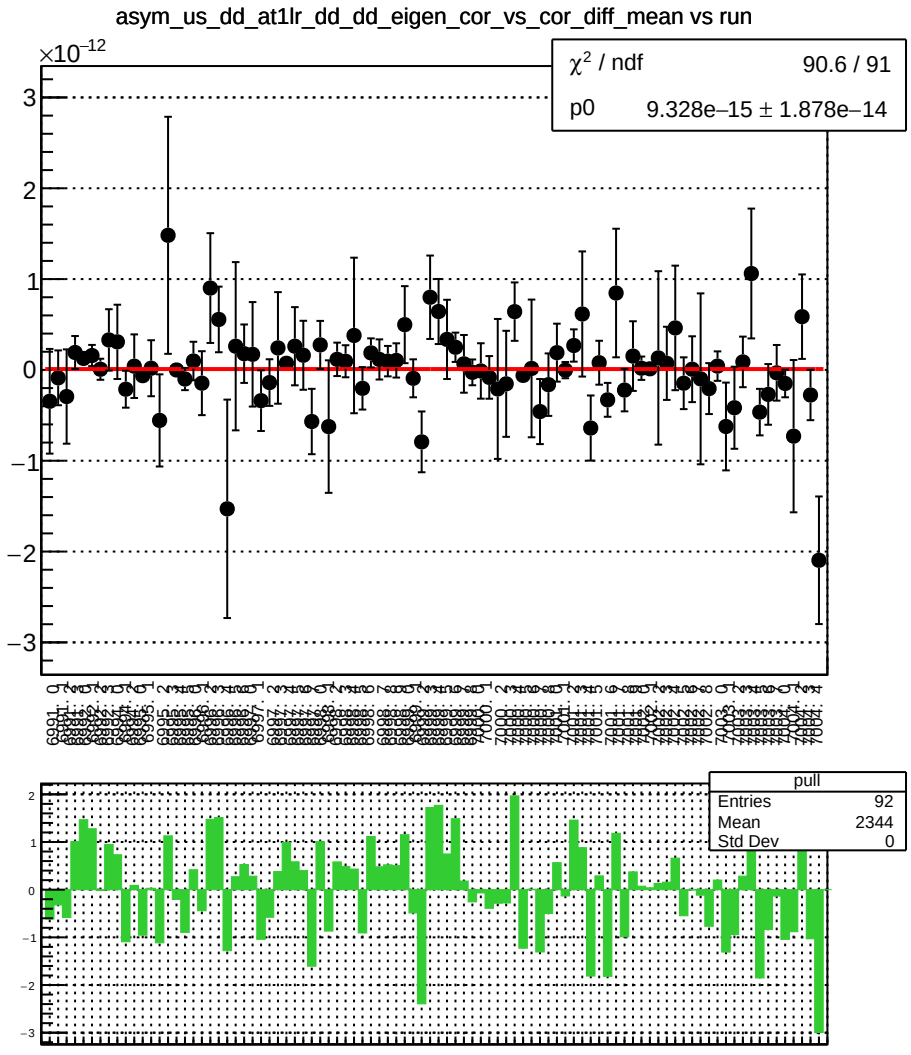

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2309 / 91
p0 0.004875 ± 3.672e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

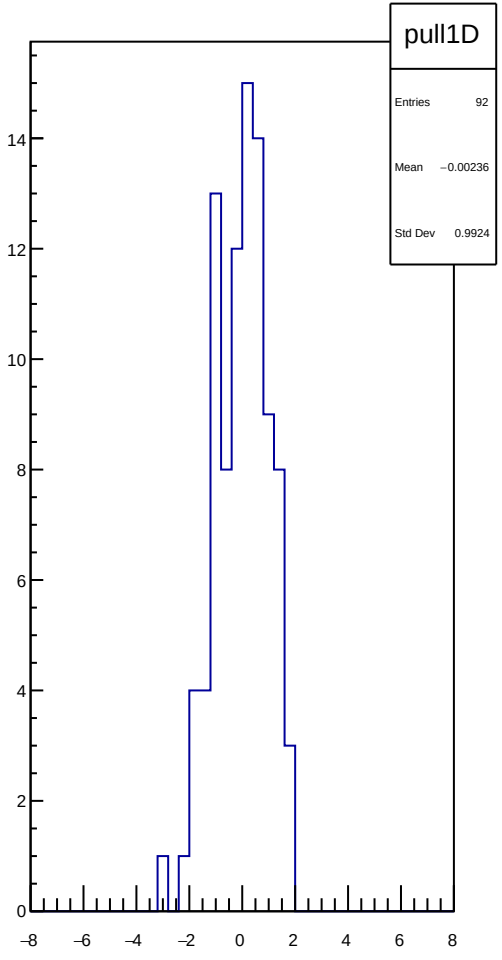

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.74 / 91
p0 −0.03051 ± 0.04513
pull
Entries 92
Mean 89.47
Std Dev 0
pull1D
Entries 92
Mean −0.01094
Std Dev 0.8643

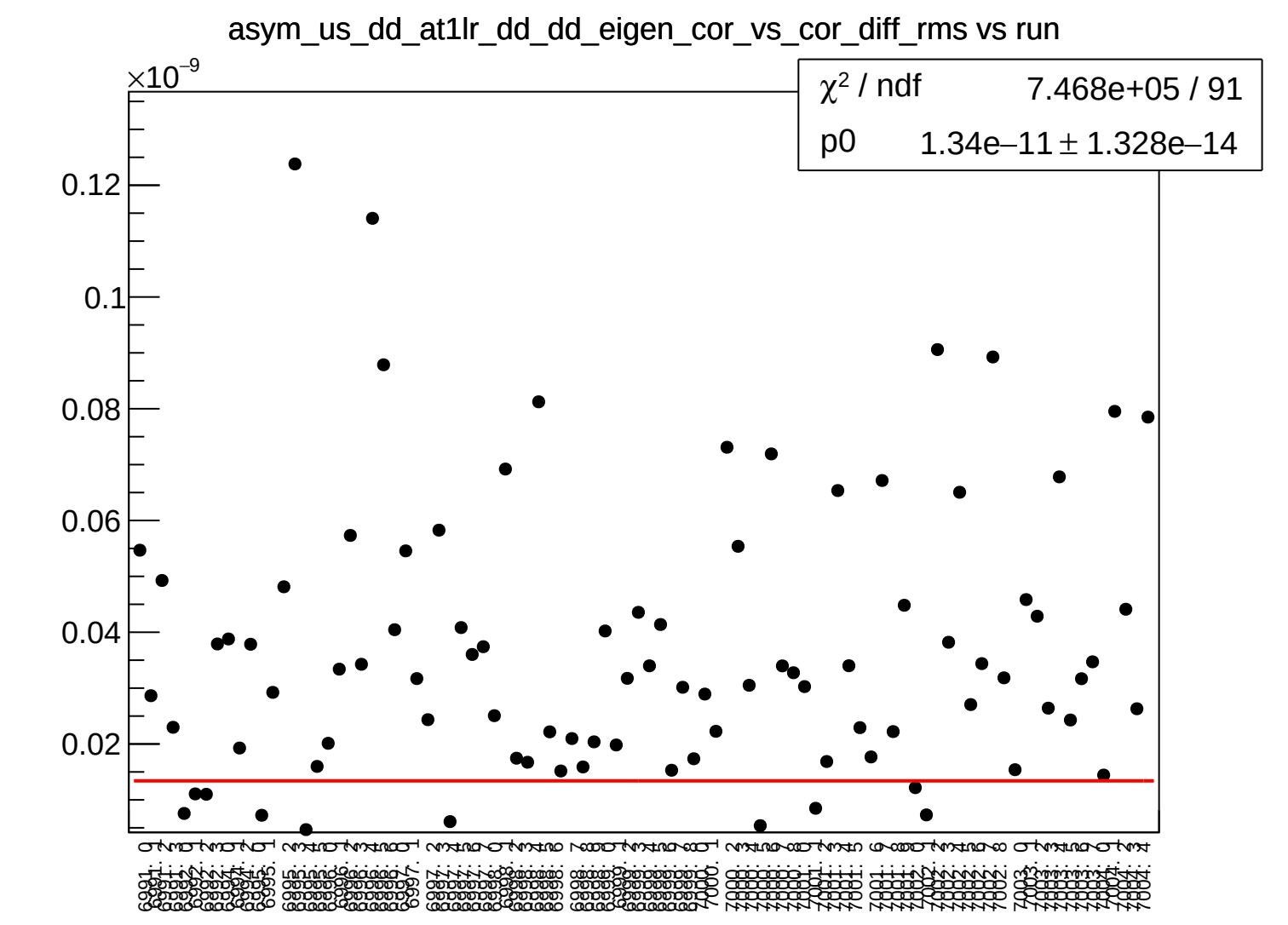

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.914e+05 / 91
p0 40.04 ± 0.03191
100
90
80
70
60
50
40
30
20

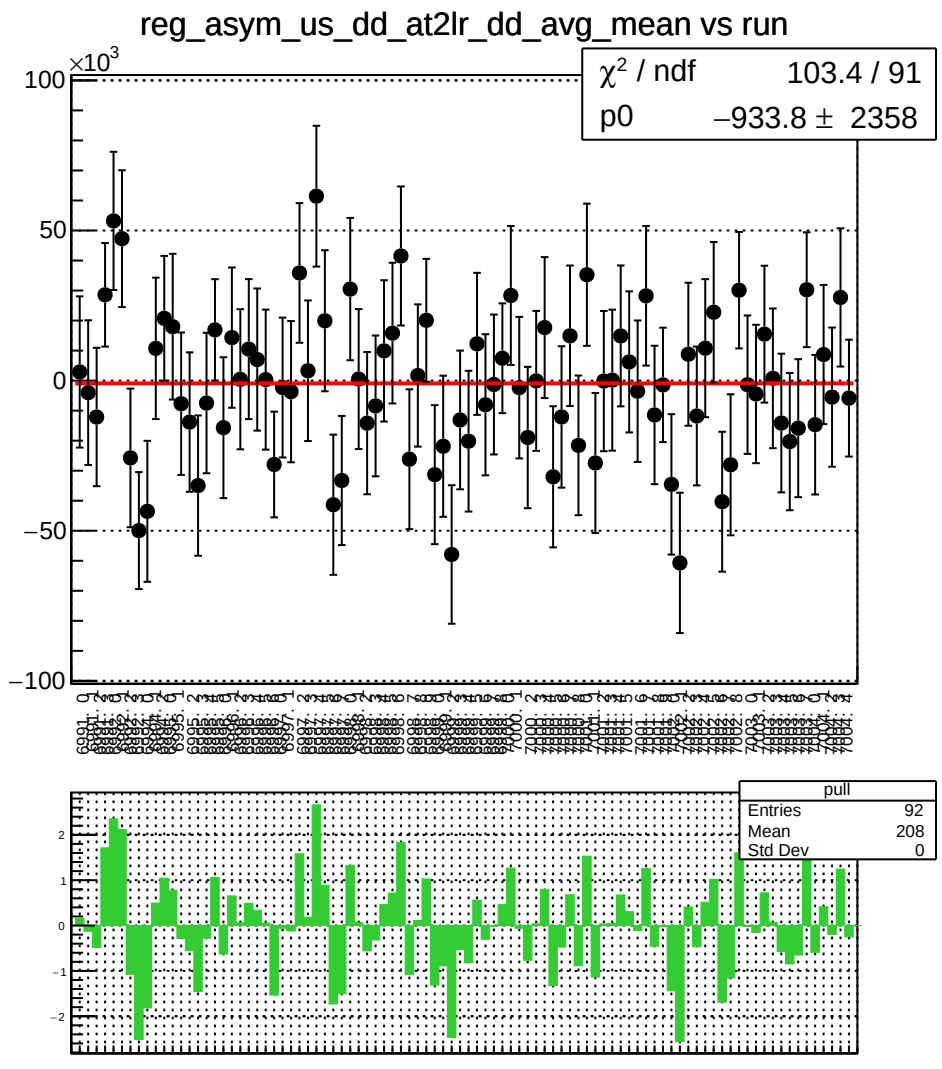

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.74 / 91
p0 −0.03051 ± 0.04513
pull
Entries 92
Mean 89.47
Std Dev 0
pull1D
Entries 92
Mean −0.01094
Std Dev 0.8643

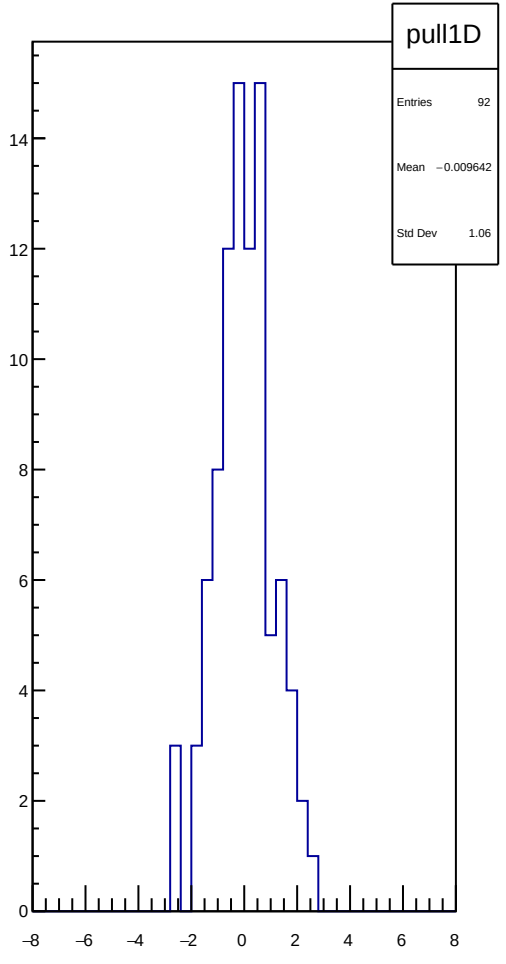

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.914e+05 / 91
p0 40.04 ± 0.03191
100
90
80
70
60
50
40
30
20

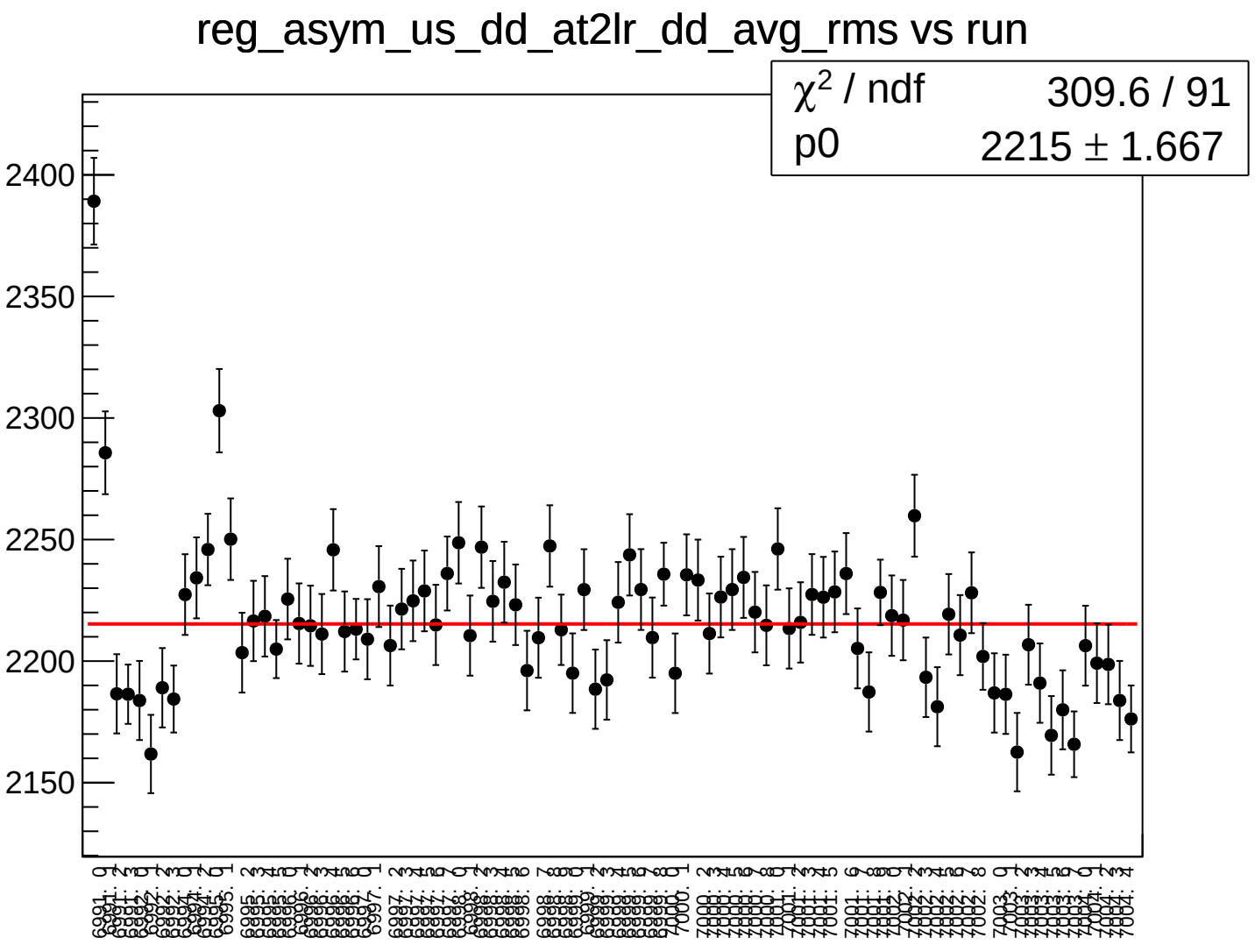

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.6 / 91
p0 9.328e−15 ± 1.878e−14
pull
Entries 92
Mean 2344
Std Dev 0

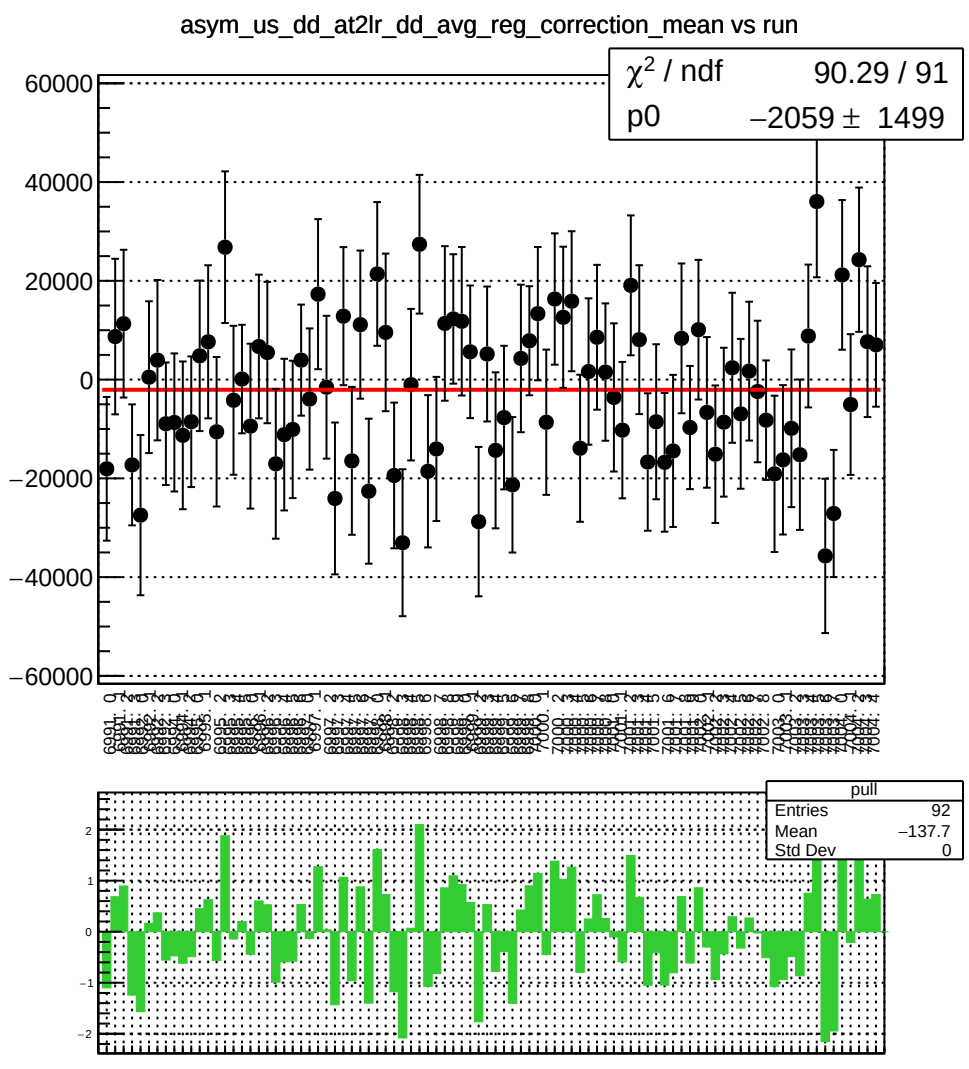

pull1D
Entries 92
Mean −0.00236
Std Dev 0.9924

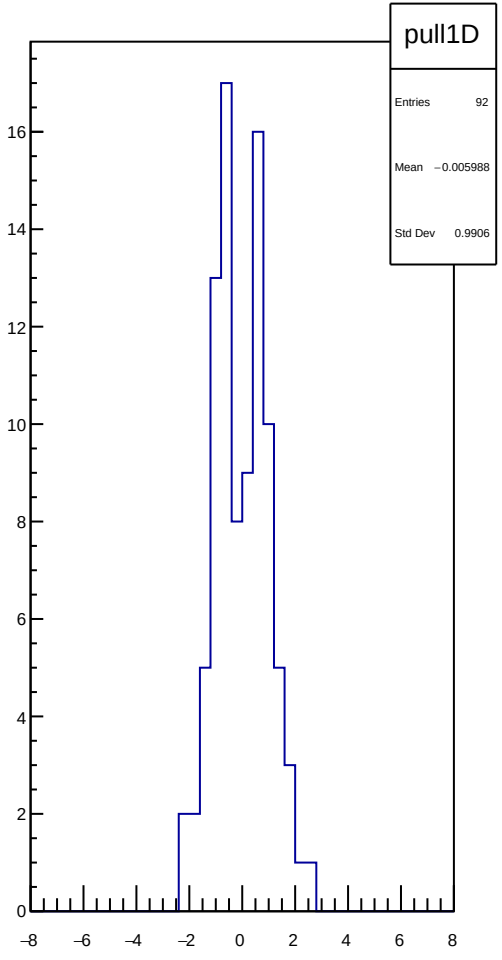

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.468e+05 / 91
p0 1.34e−11 ± 1.328e−14
0.12
0.1
0.08
0.06
0.04
0.02

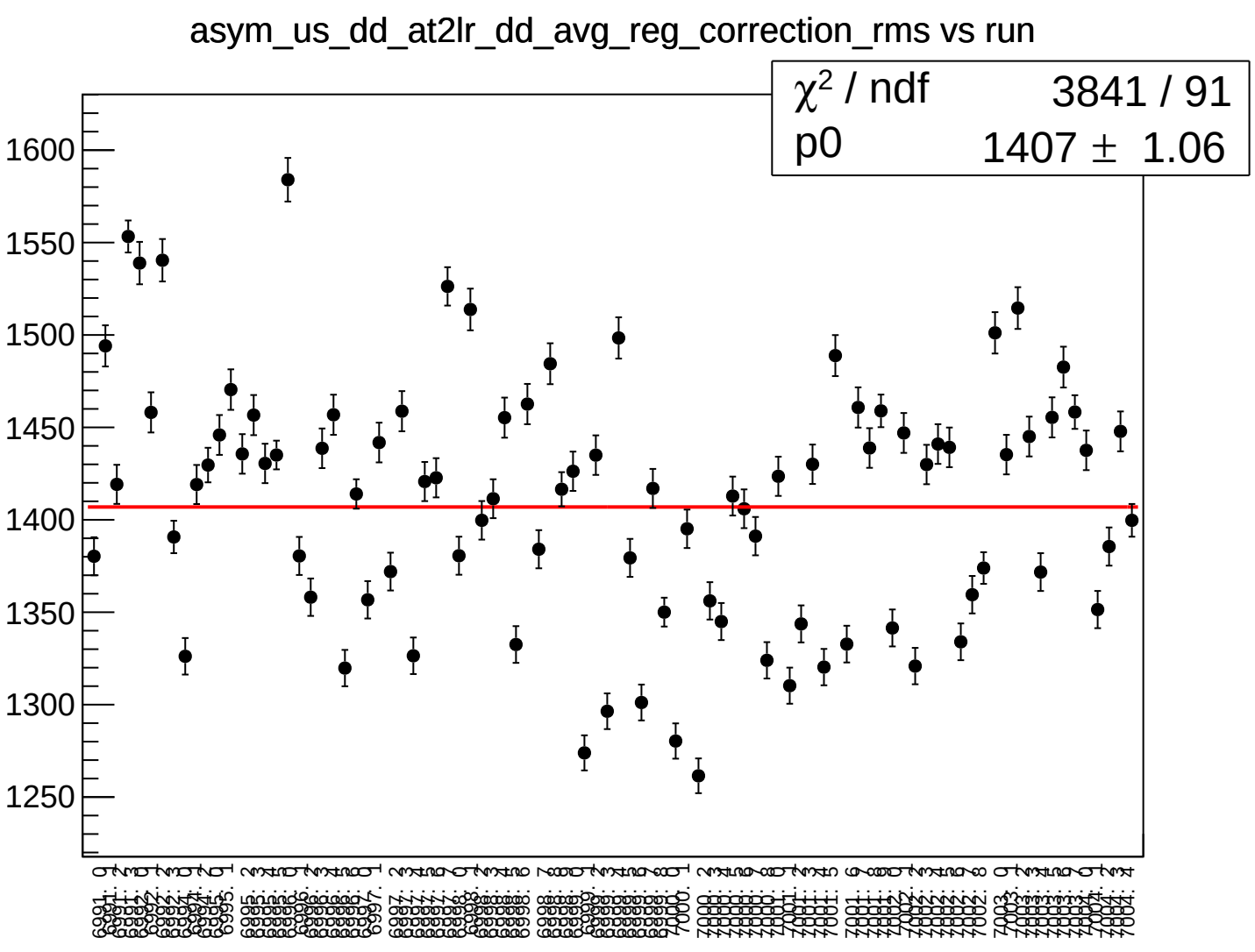

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 103.4 / 91
p0 −933.8 ± 2358
100
50
0
−50
−100
pull
Entries 92
Mean 208
Std Dev 0
2
1
0
−1
−2

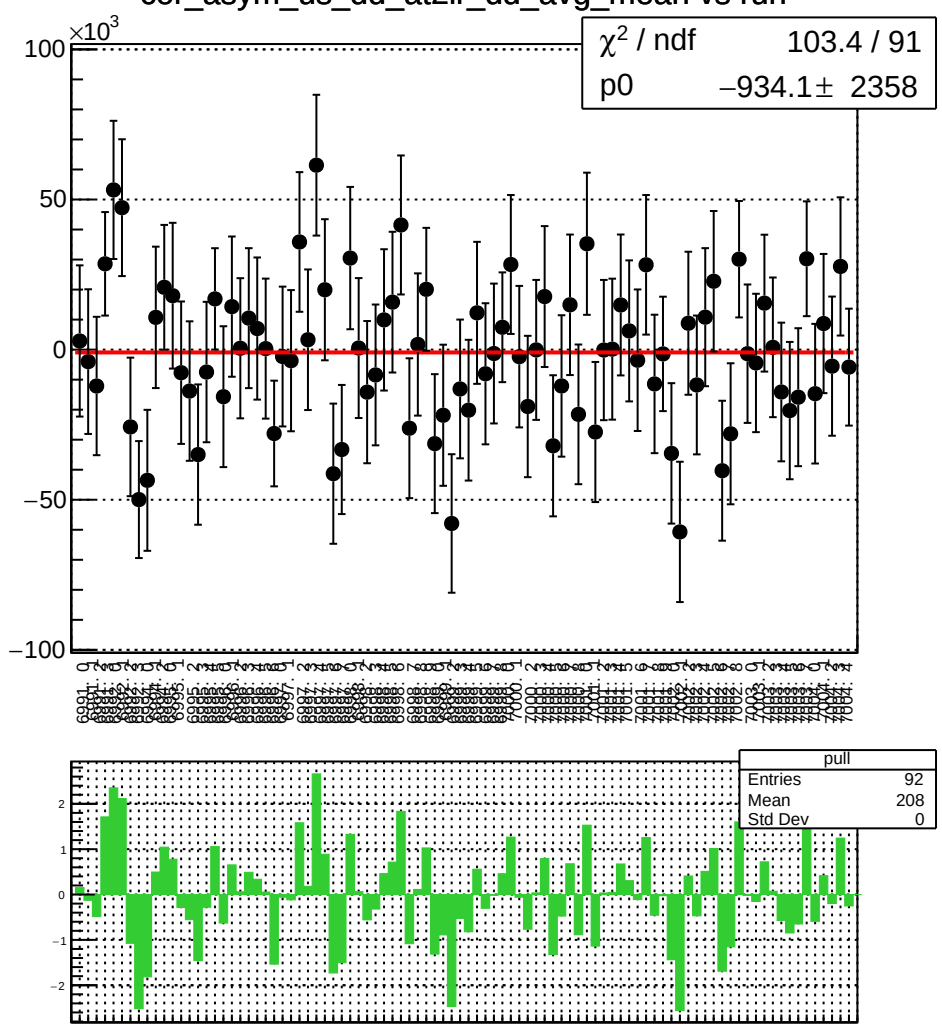

pull1D
Entries 92
Mean −0.009642
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

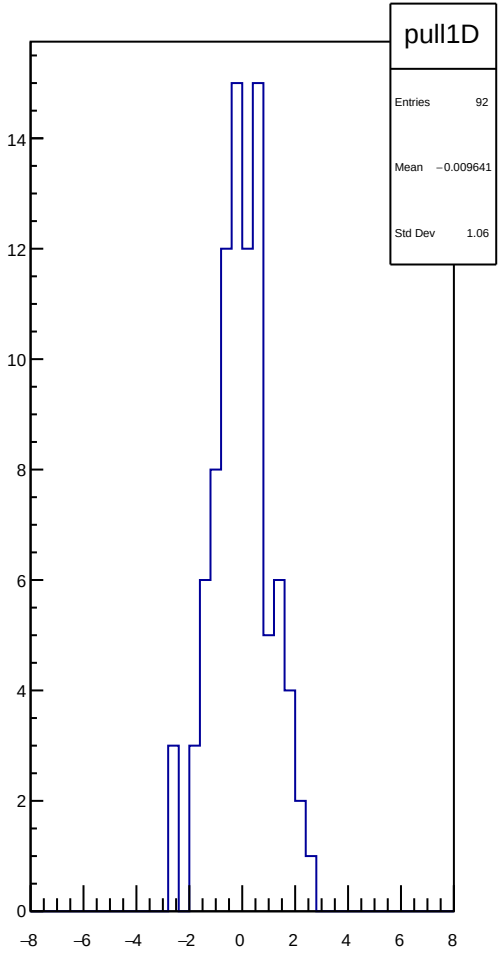

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 309.6 / 91
p0 2215 ± 1.667
2400
2350
2300
2250
2200
2150

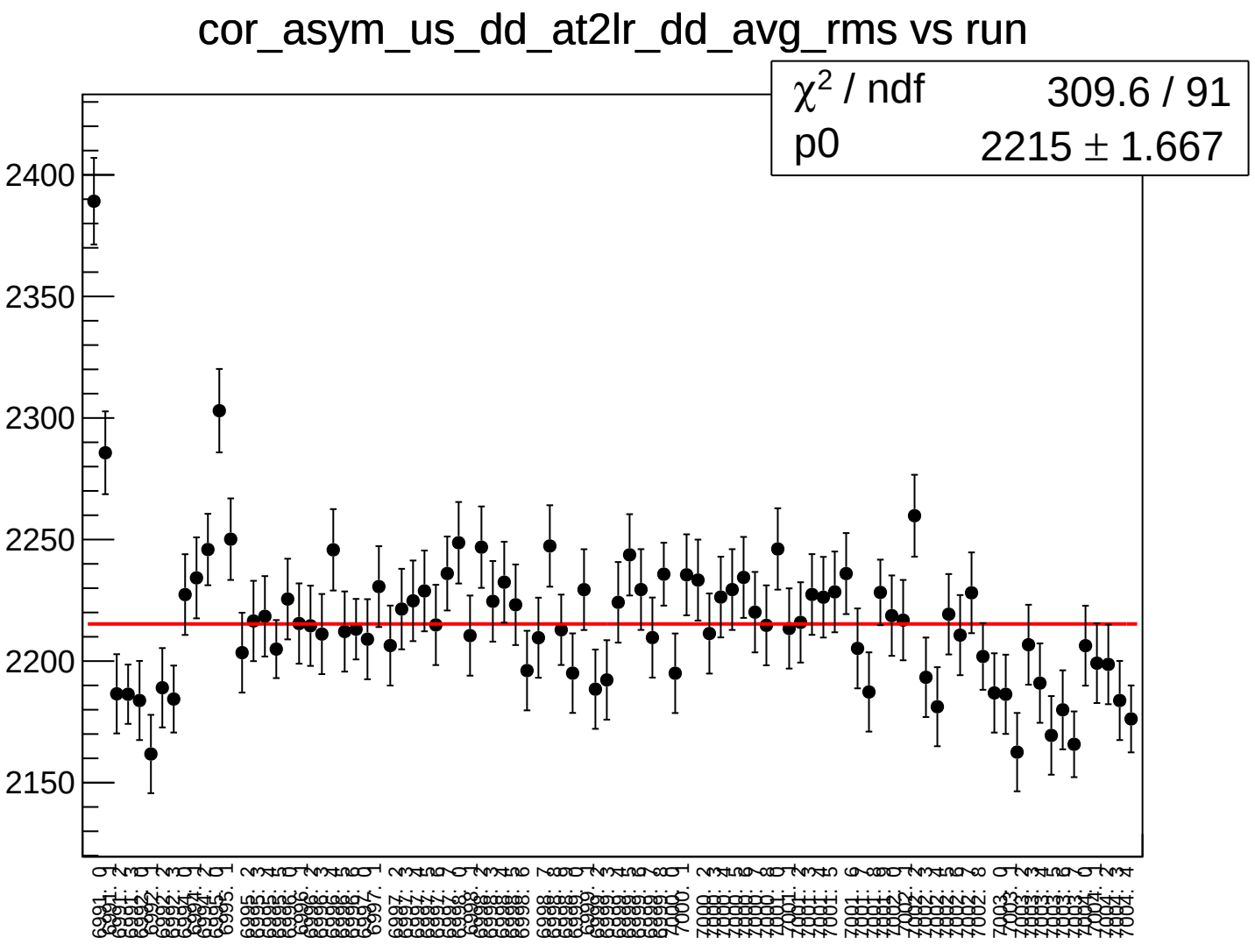

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 90.29 / 91
p0 −2059 ± 1499
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −137.7
Std Dev 0
2
1
0
−1
−2

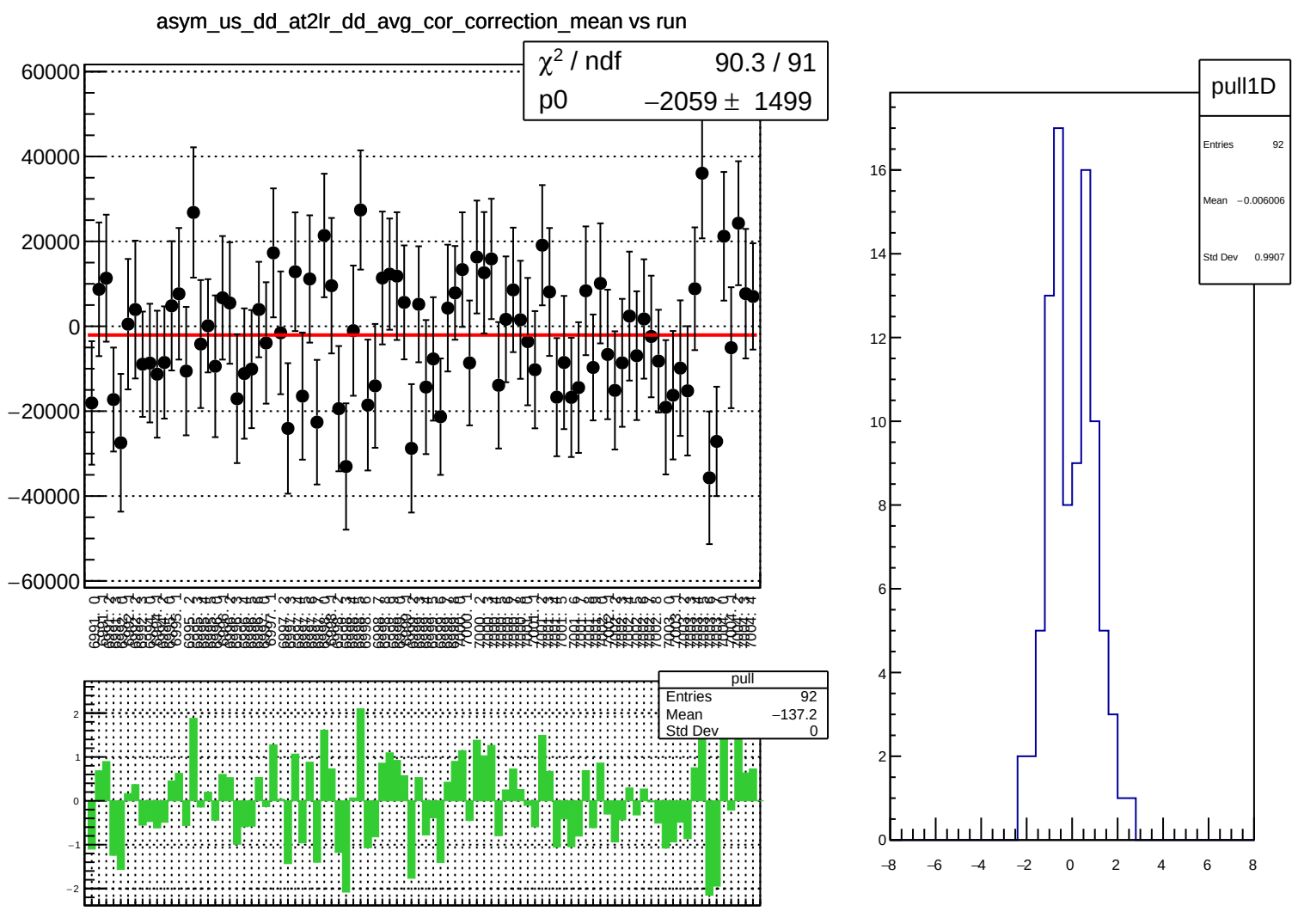

pull1D
Entries 92
Mean −0.005988
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

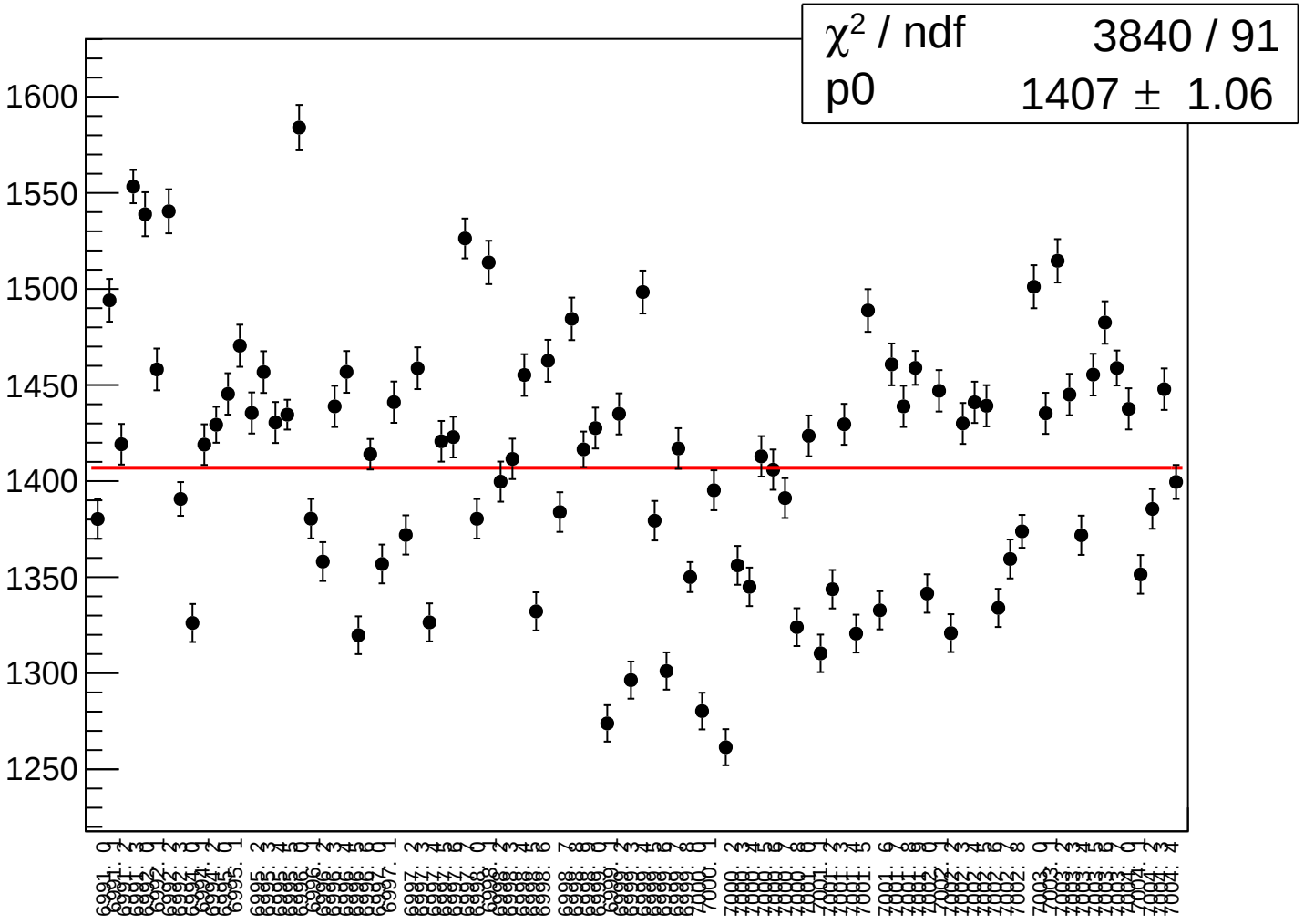

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3841 / 91
p0 1407 ± 1.06
1600
1550
1500
1450
1400
1350
1300
1250

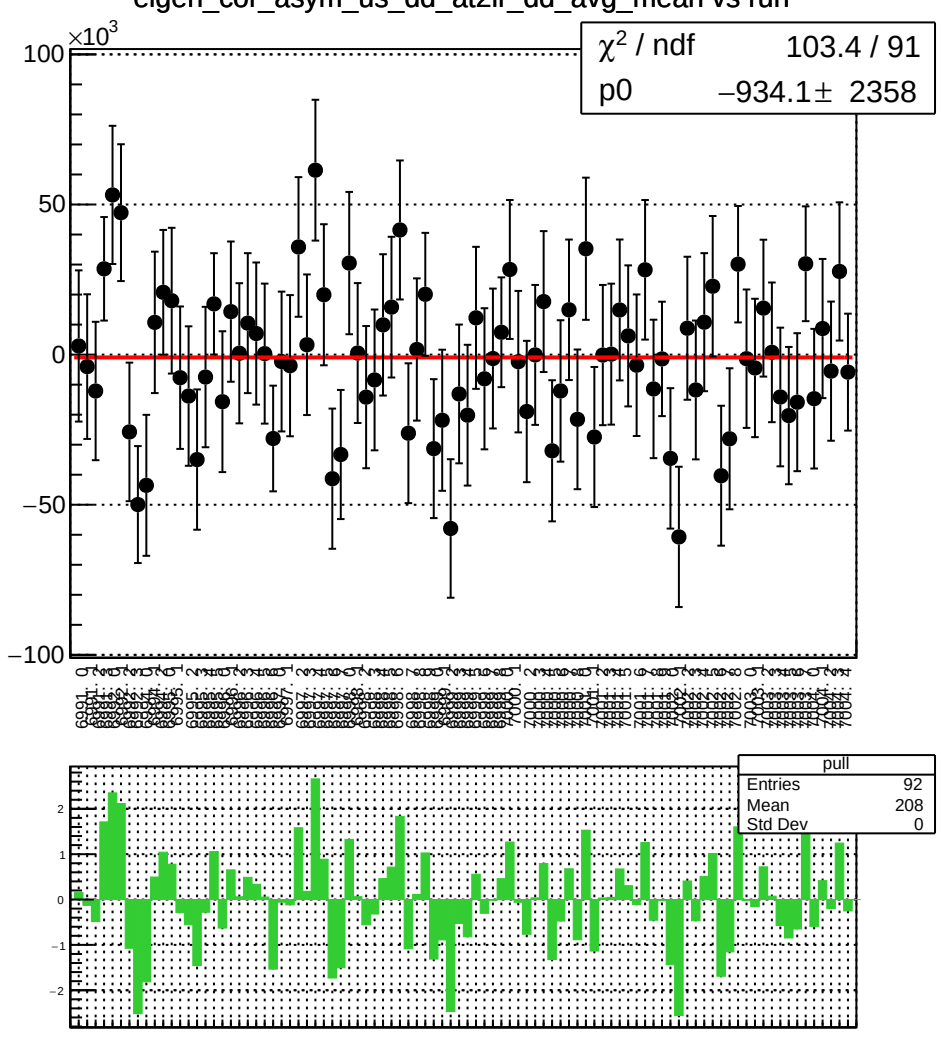

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 103.4 / 91
p0 −934.1± 2358
pull
Entries 92
Mean 208
Std Dev 0

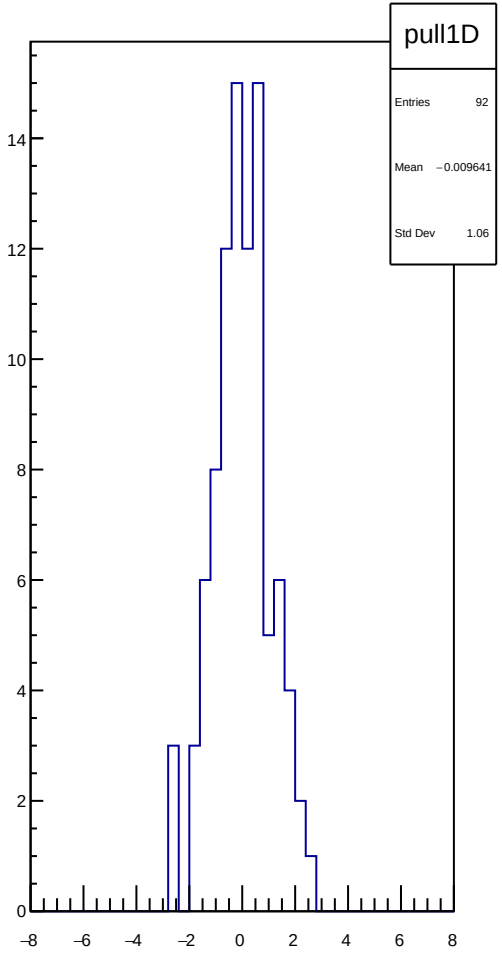

pull1D
Entries 92
Mean −0.009641
Std Dev 1.06

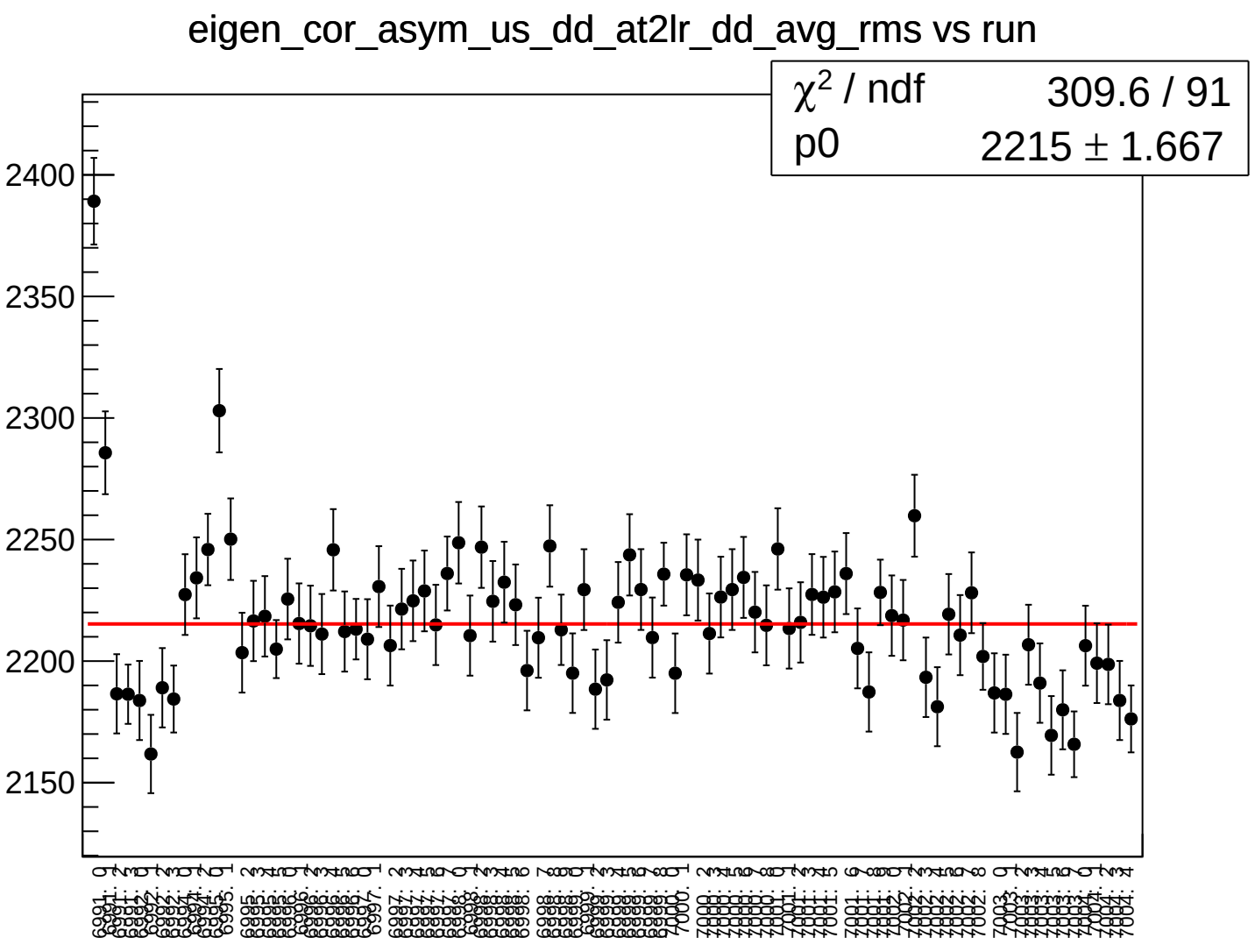

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 309.6 / 91
p0 2215 ± 1.667
2400
2350
2300
2250
2200
2150

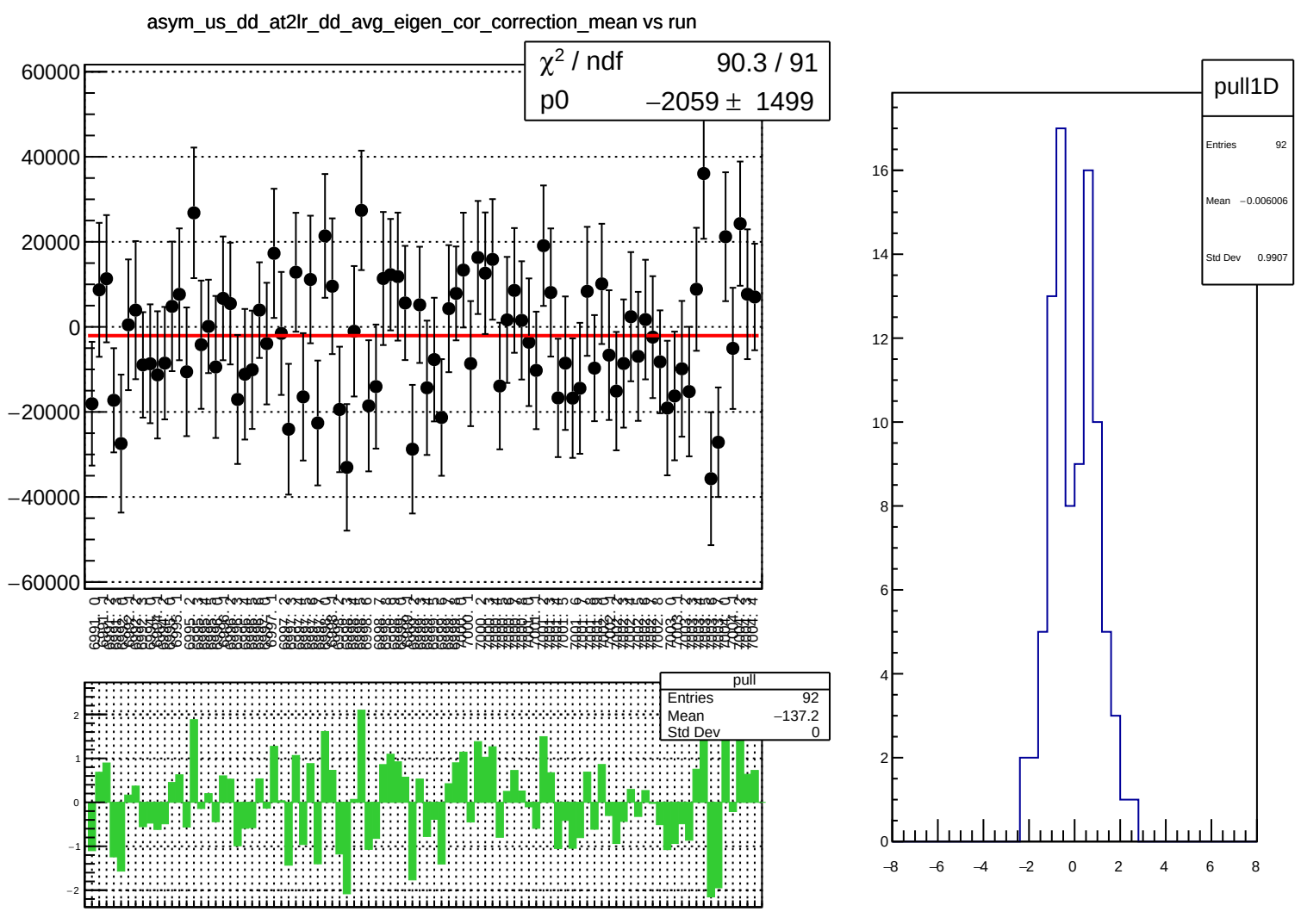

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 90.3 / 91
p0 −2059 ± 1499
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −137.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006006
Std Dev 0.9907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

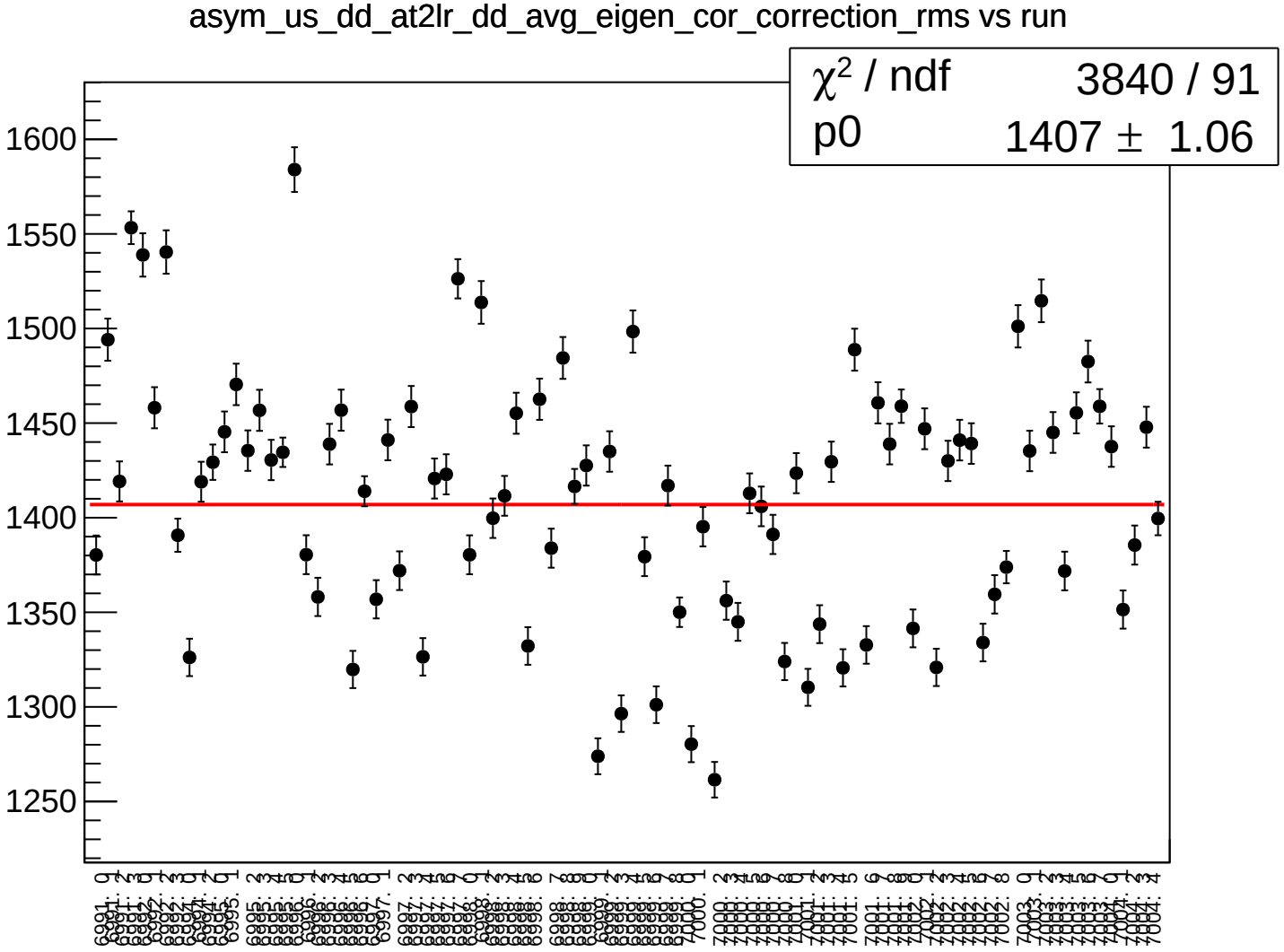

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3840 / 91
p0 1407 ± 1.06
1600
1550
1500
1450
1400
1350
1300
1250

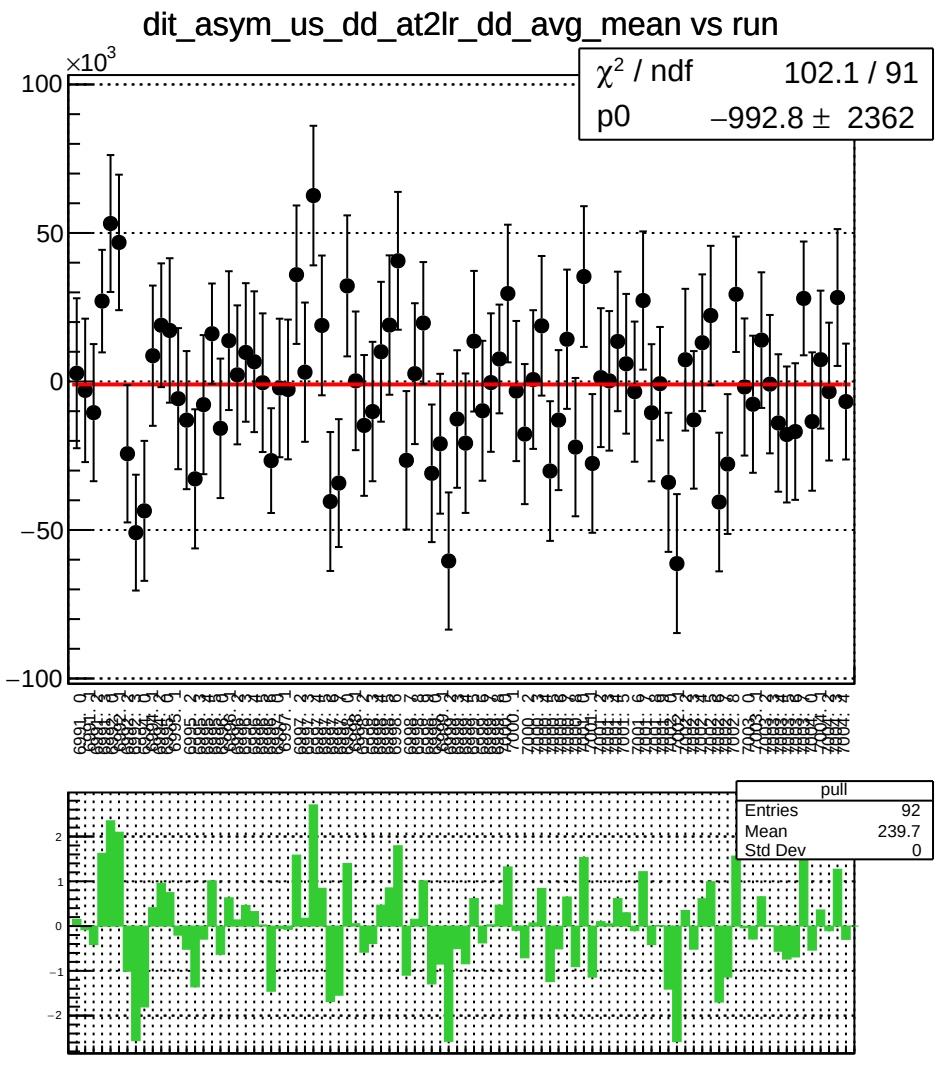

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 103.4 / 91
p0 −934.1± 2358
×10³
pull
Entries 92
Mean 208
Std Dev 0

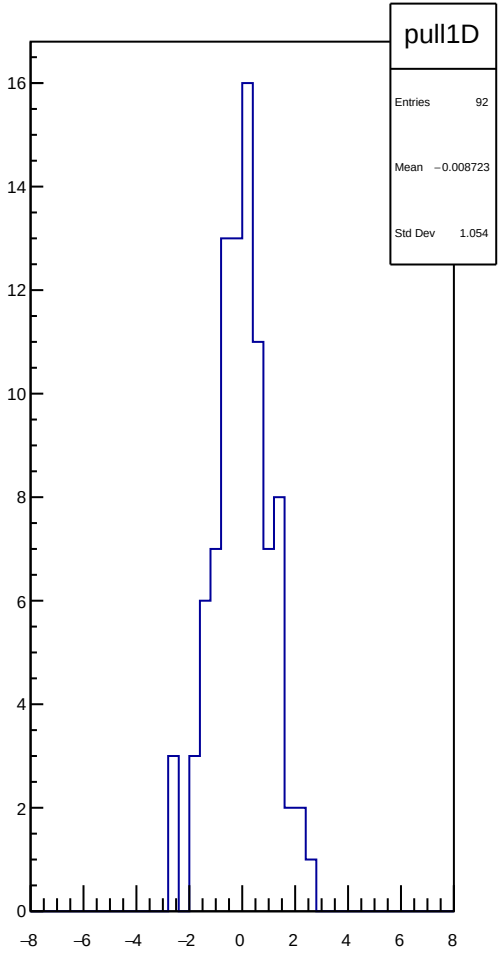

pull1D
Entries 92
Mean −0.009641
Std Dev 1.06

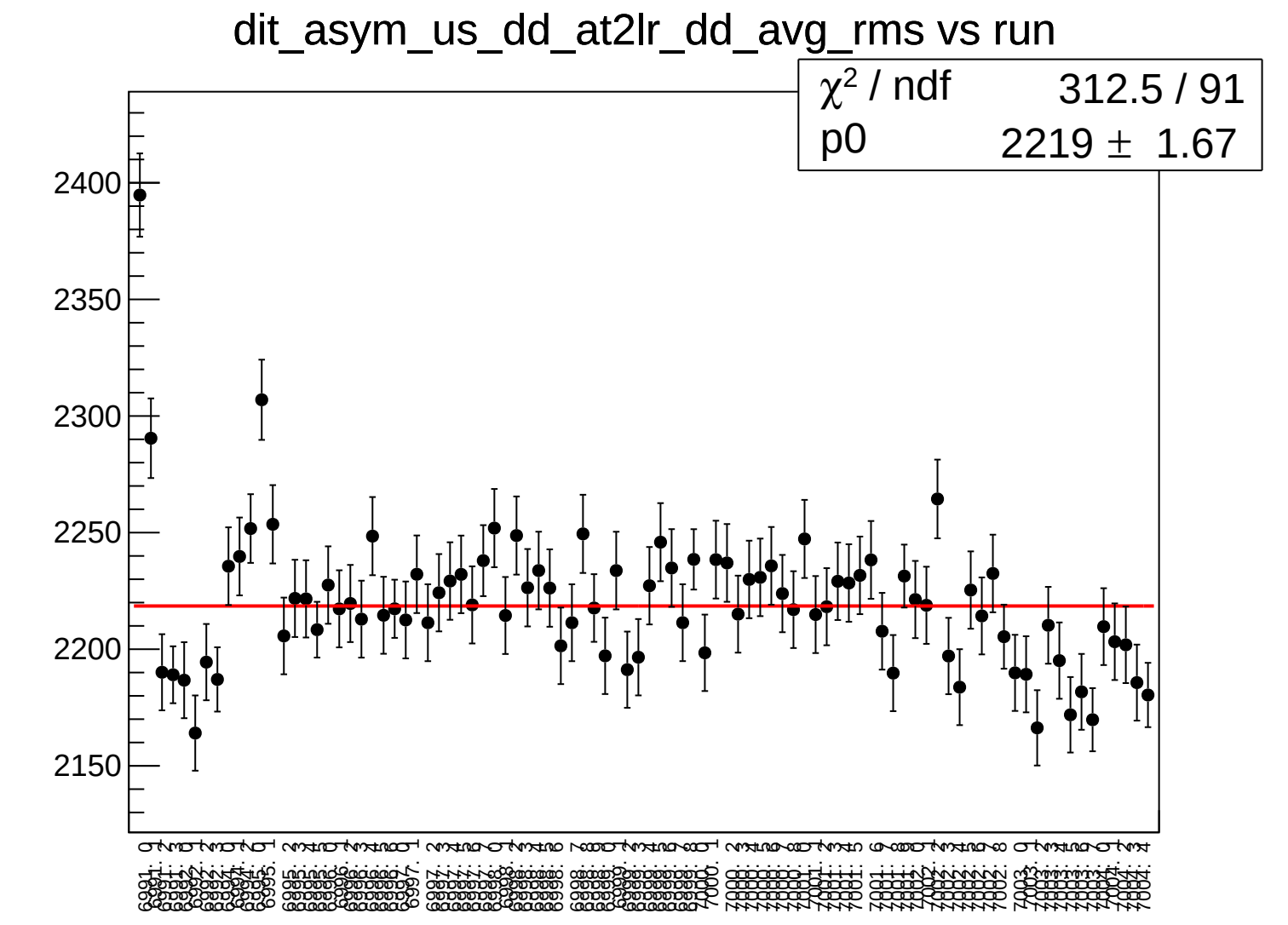

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 309.6 / 91
p0 2215 ± 1.667
2400
2350
2300
2250
2200
2150

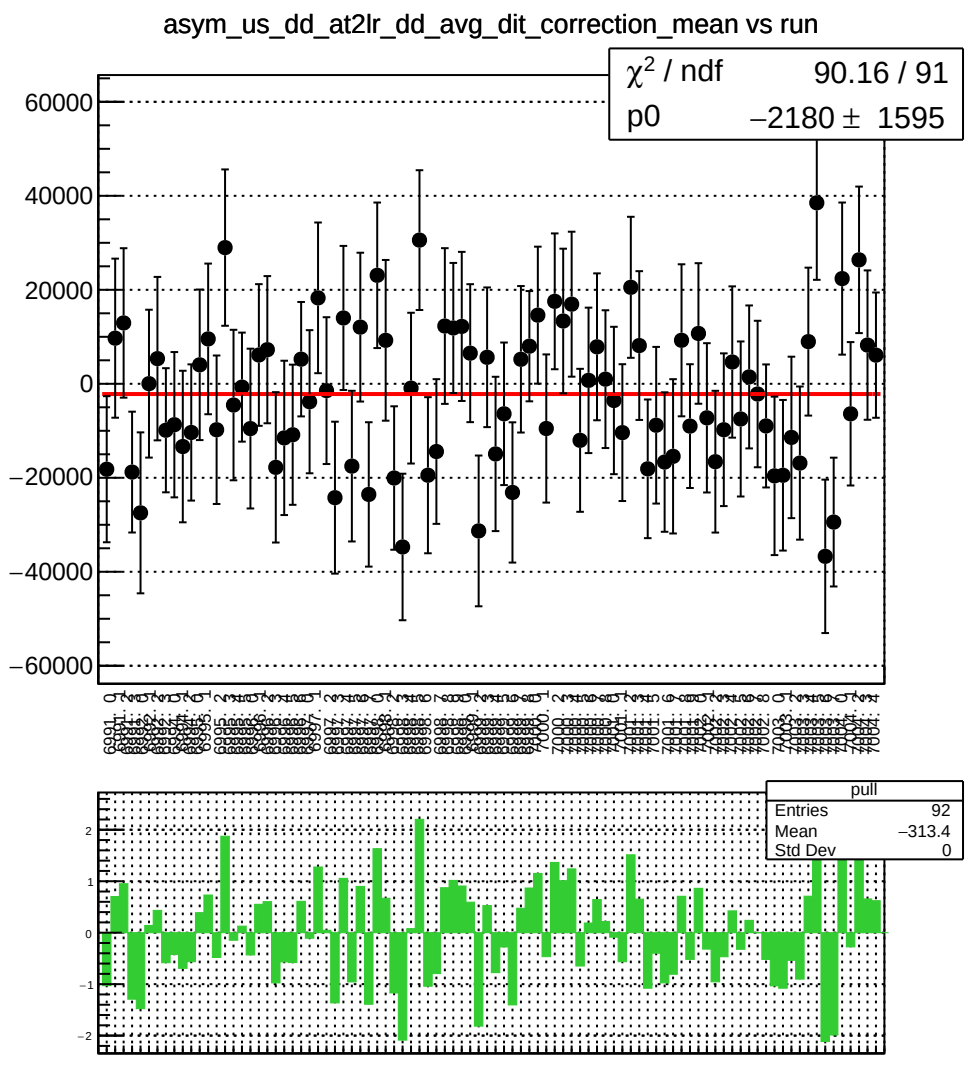

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.3 / 91
p0 −2059 ± 1499
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −137.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006006
Std Dev 0.9907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

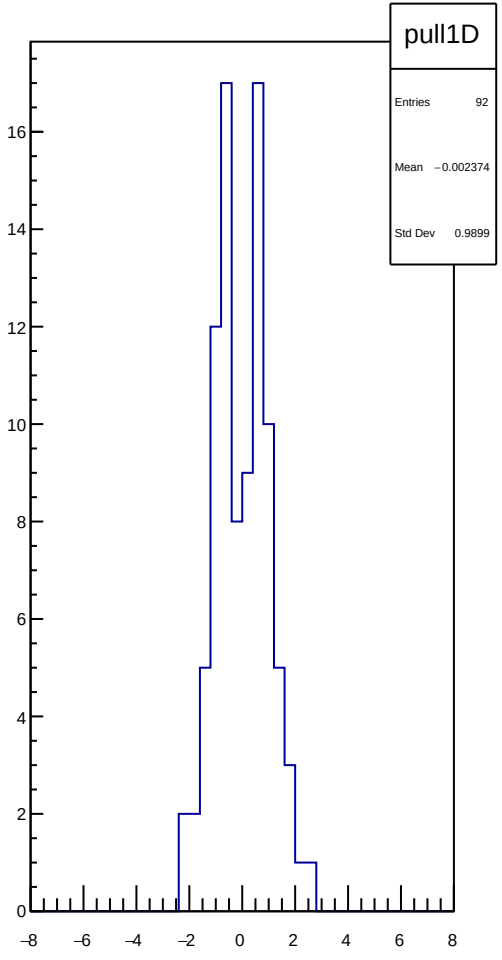

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3840 / 91
p0 1407 ± 1.06
1600
1550
1500
1450
1400
1350
1300
1250

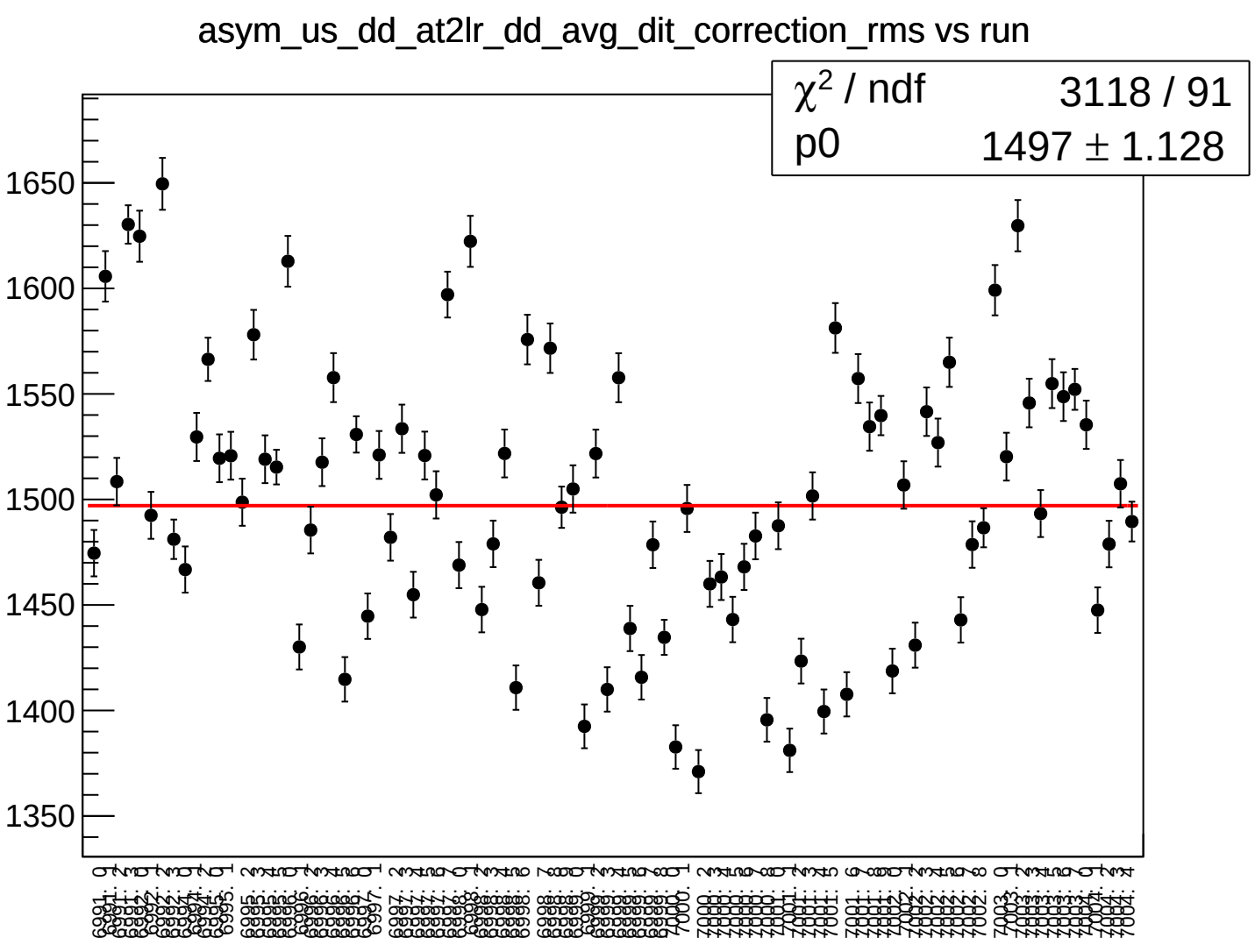

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 102.1 / 91
p0 −992.8 ± 2362
pull
Entries 92
Mean 239.7
Std Dev 0

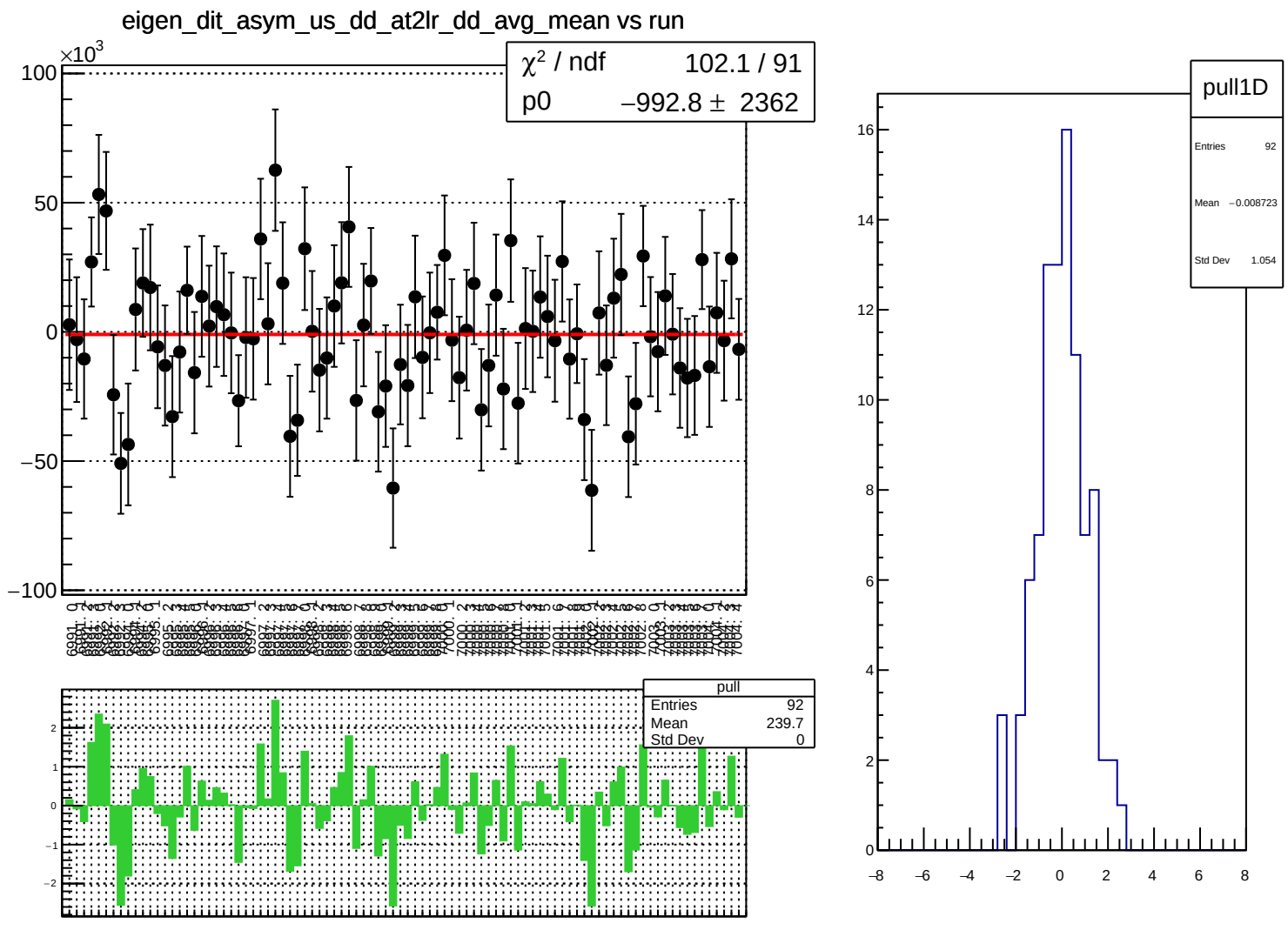

pull1D
Entries 92
Mean −0.008723
Std Dev 1.054

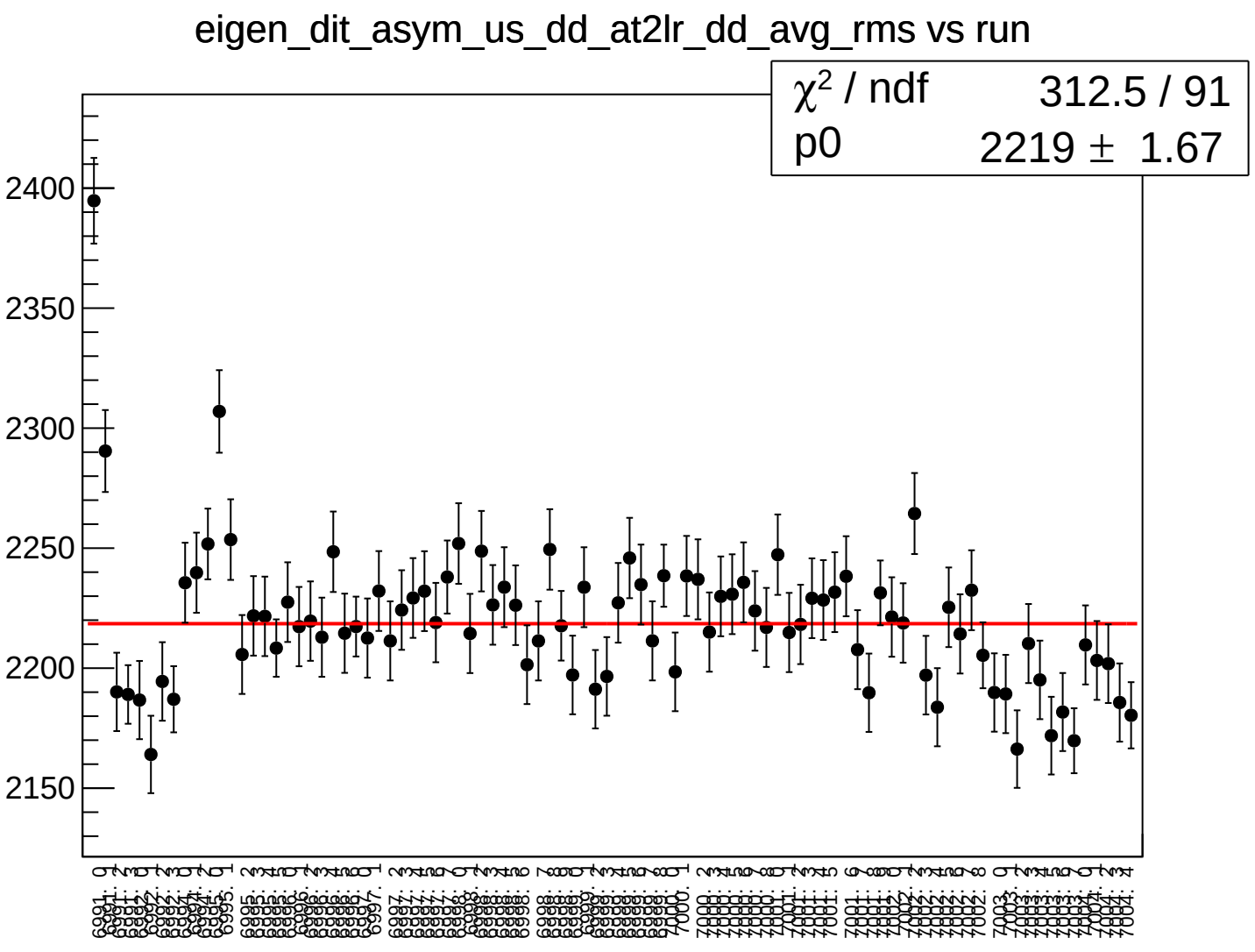

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 312.5 / 91
p0 2219 ± 1.67
2400
2350
2300
2250
2200
2150

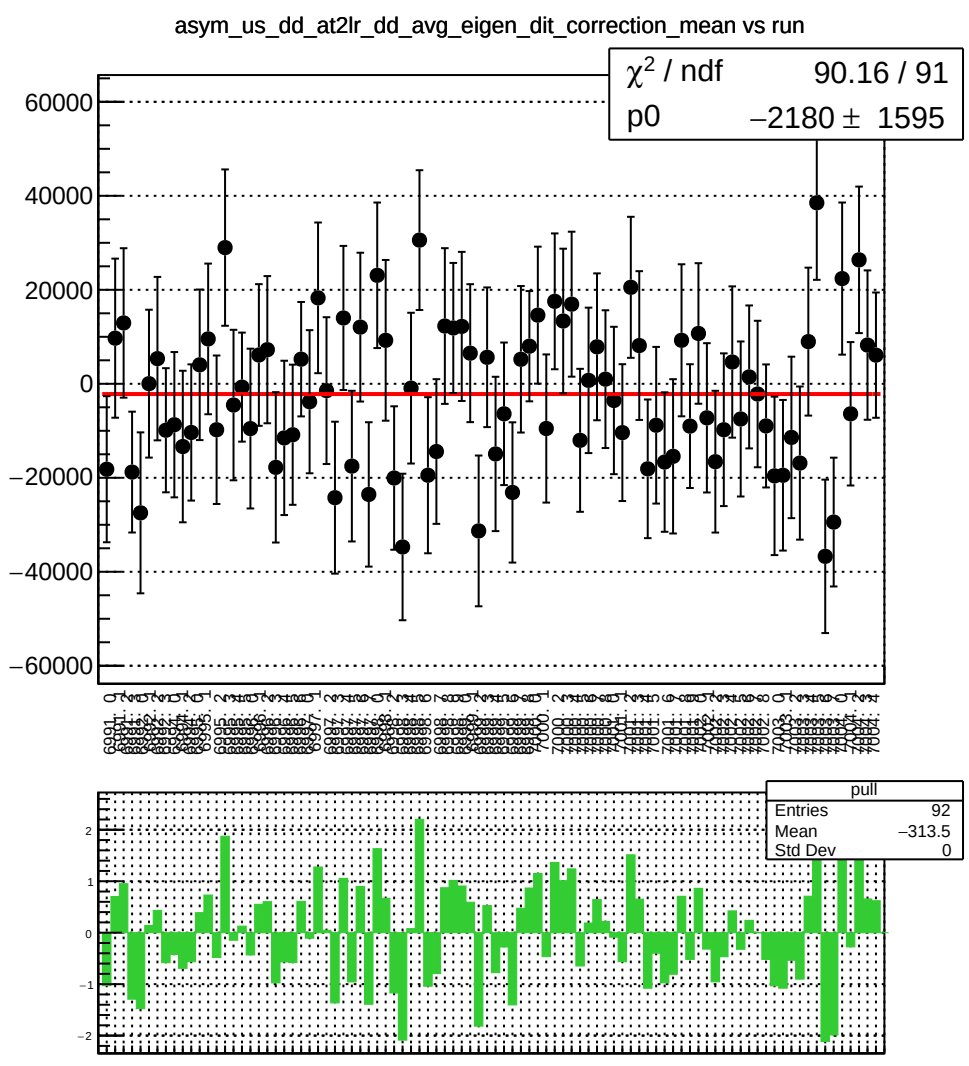

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 90.16 / 91
p0 −2180 ± 1595
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −313.4
Std Dev 0
2
1
0
−1
−2

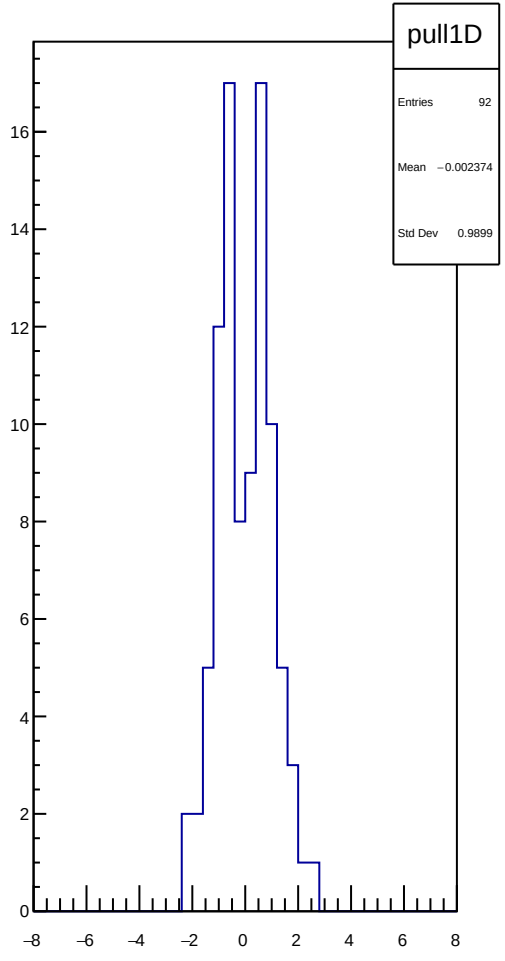

pull1D
Entries 92
Mean −0.002374
Std Dev 0.9899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

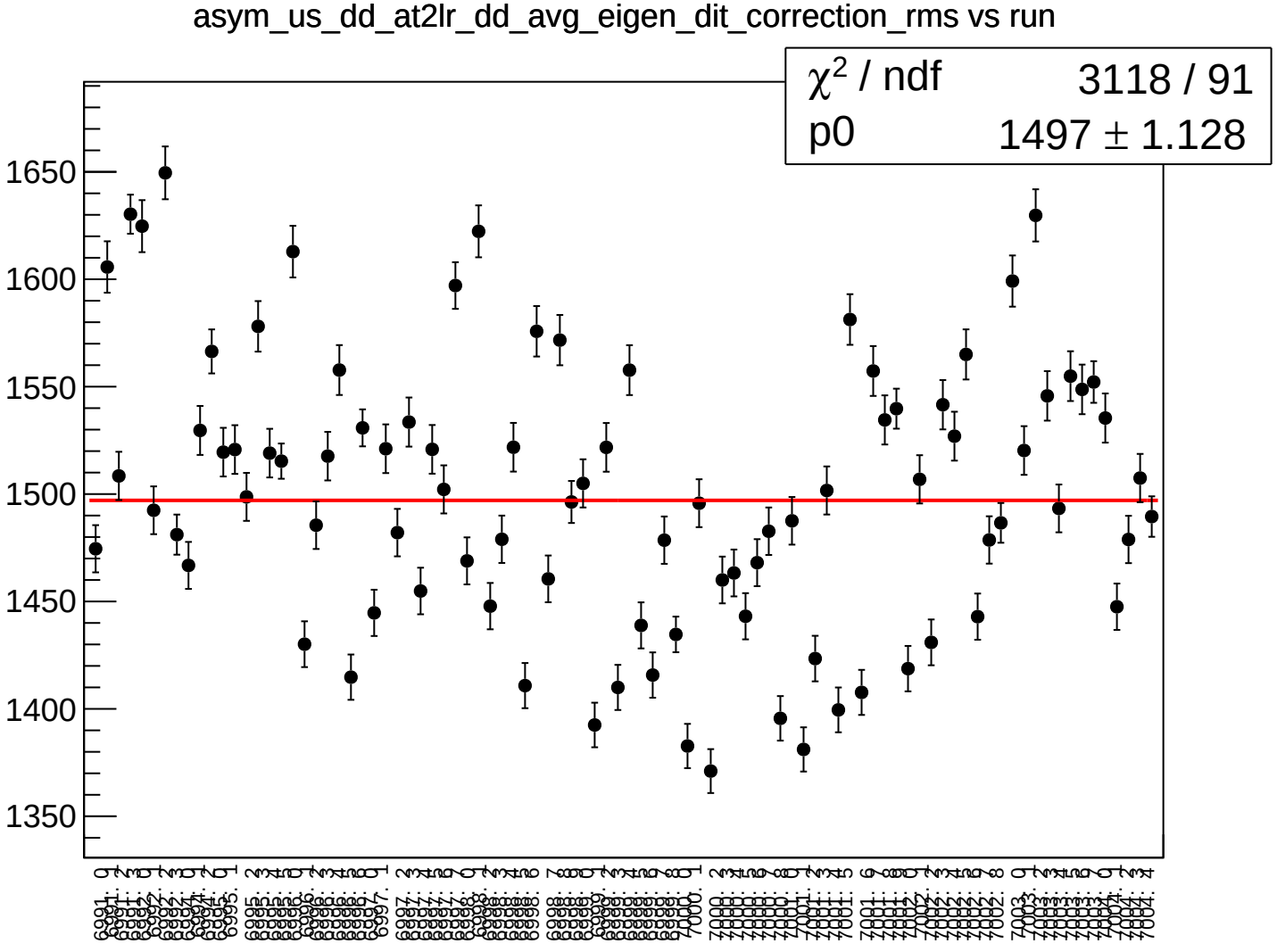

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3118 / 91
p0 1497 ± 1.128
1650
1600
1550
1500
1450
1400
1350

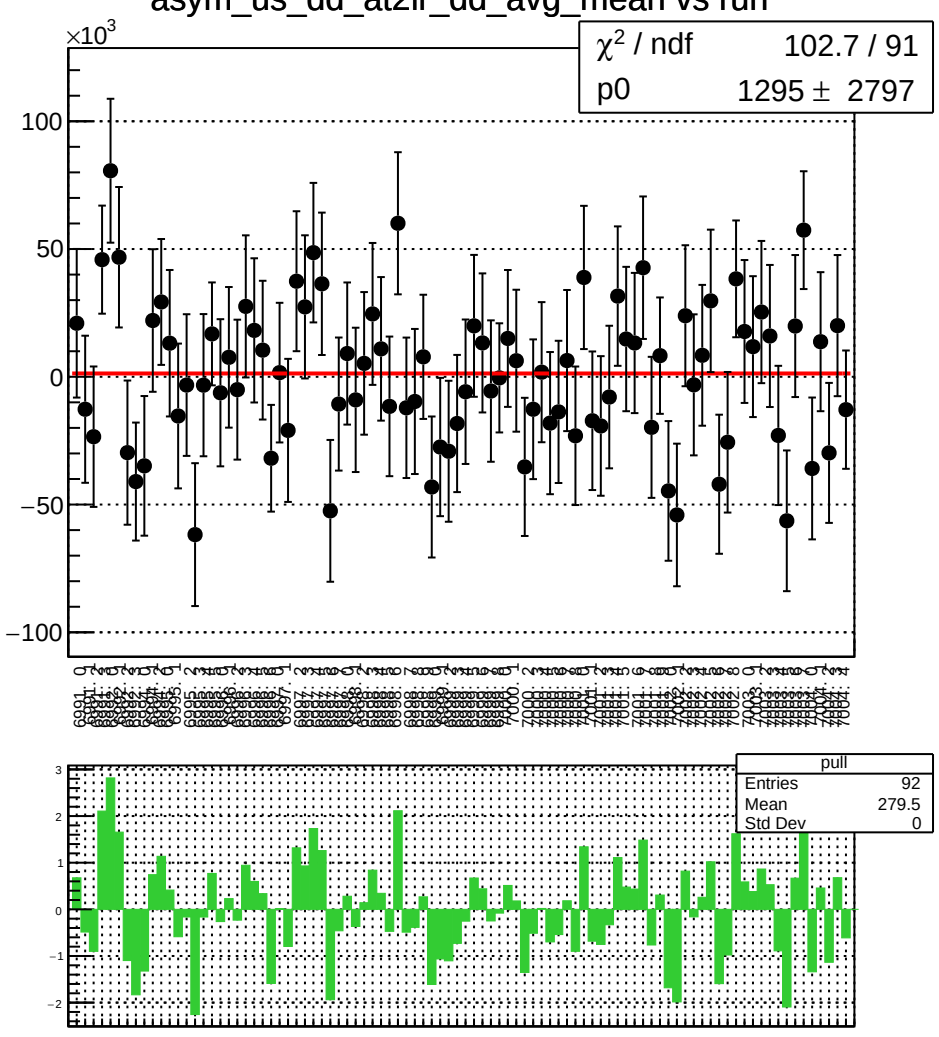

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 102.1 / 91
p0 −992.8 ± 2362
×10³
100
50
0
−50
−100
pull
Entries 92
Mean 239.7
Std Dev 0
pull1D
Entries 92
Mean −0.008723
Std Dev 1.054

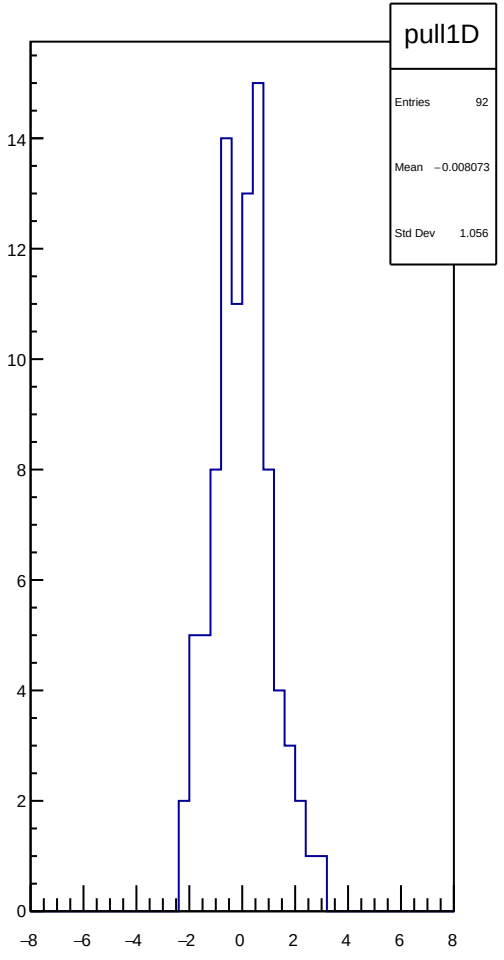

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 312.5 / 91
p0 2219 ± 1.67
2400
2350
2300
2250
2200
2150

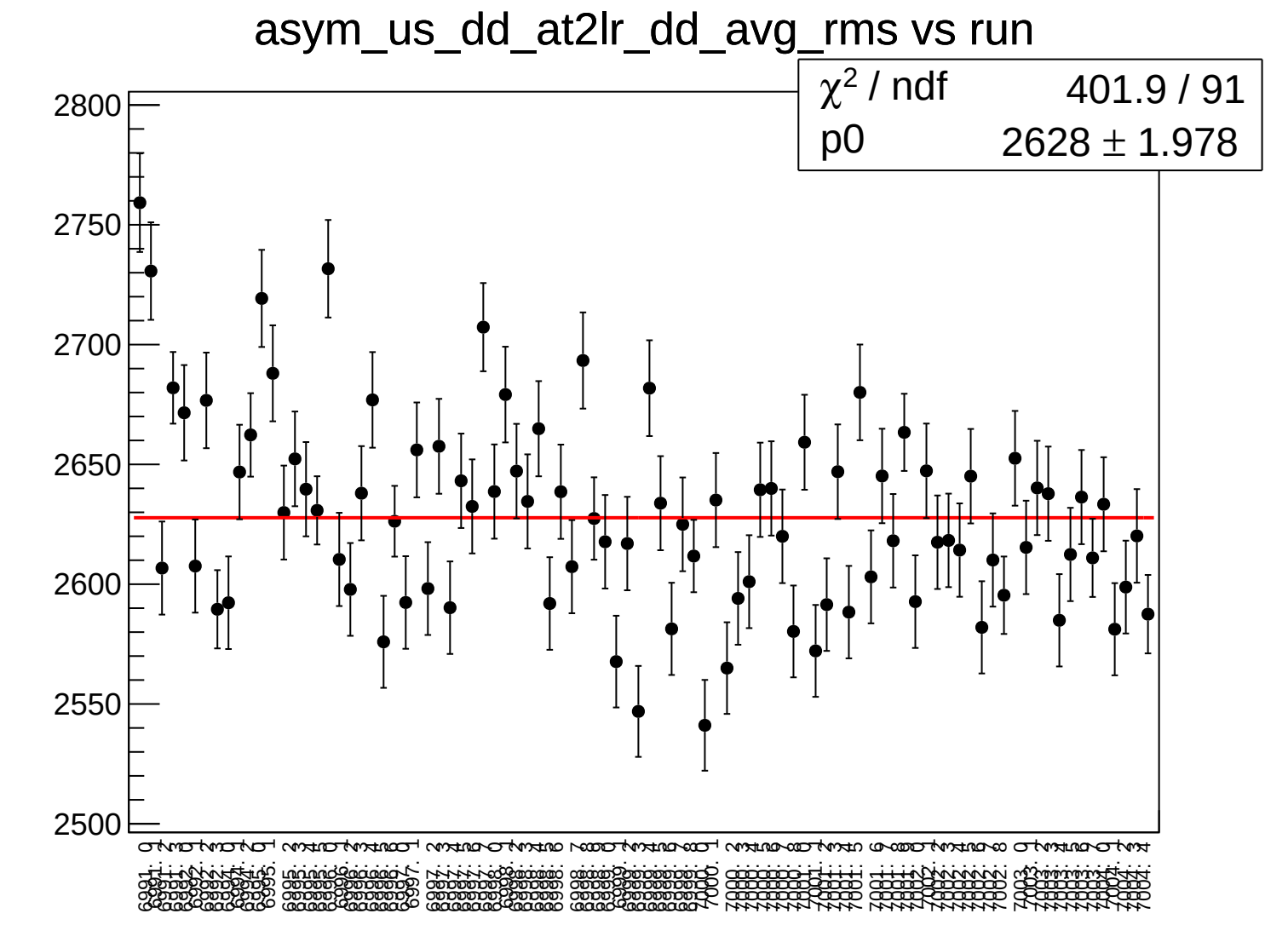

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.16 / 91
p0 −2180 ± 1595
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −313.5
Std Dev 0
2
1
0
−1
−2

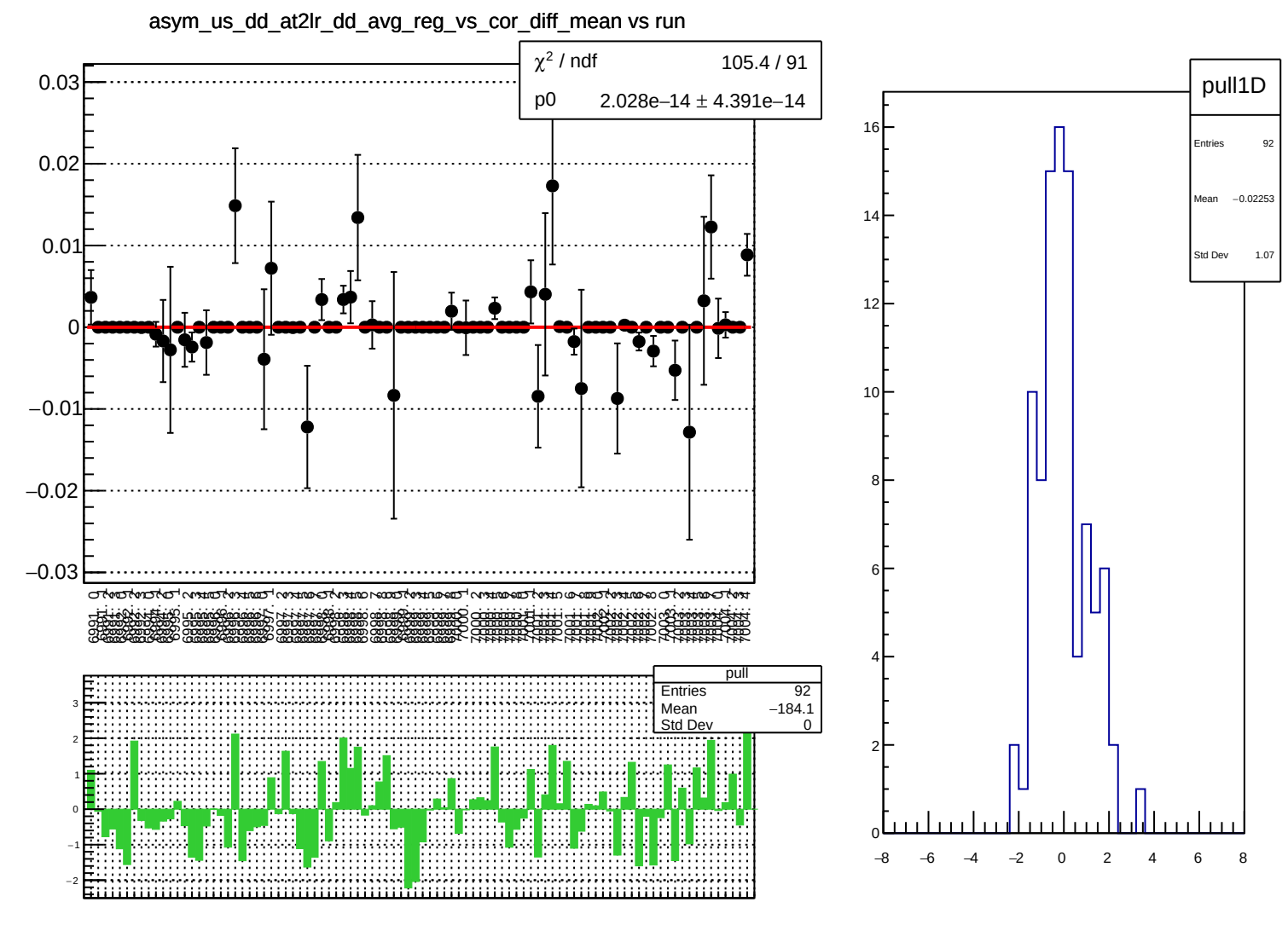

pull1D
Entries 92
Mean −0.002374
Std Dev 0.9899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

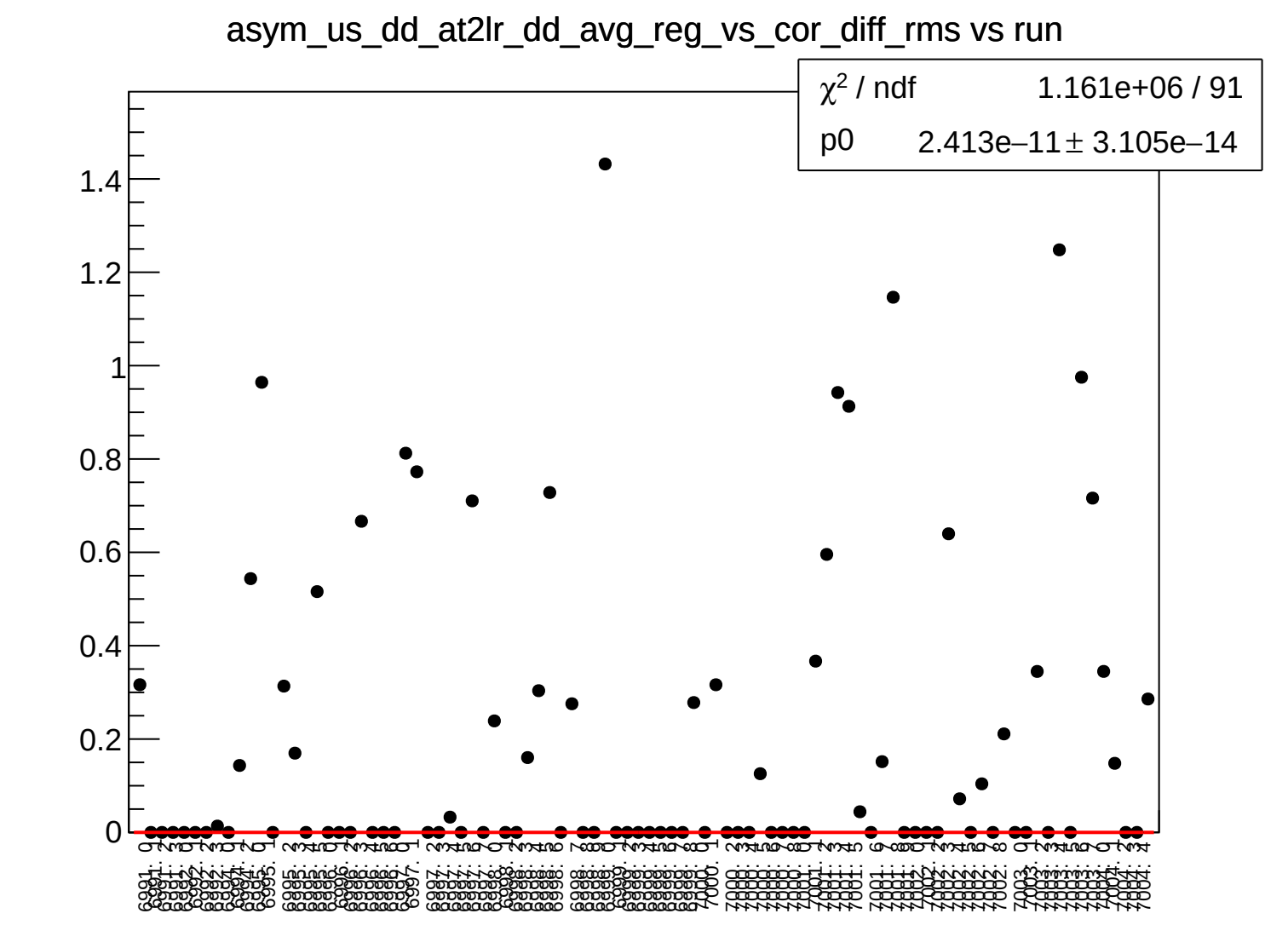

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3118 / 91
p0 1497 ± 1.128
1650
1600
1550
1500
1450
1400
1350

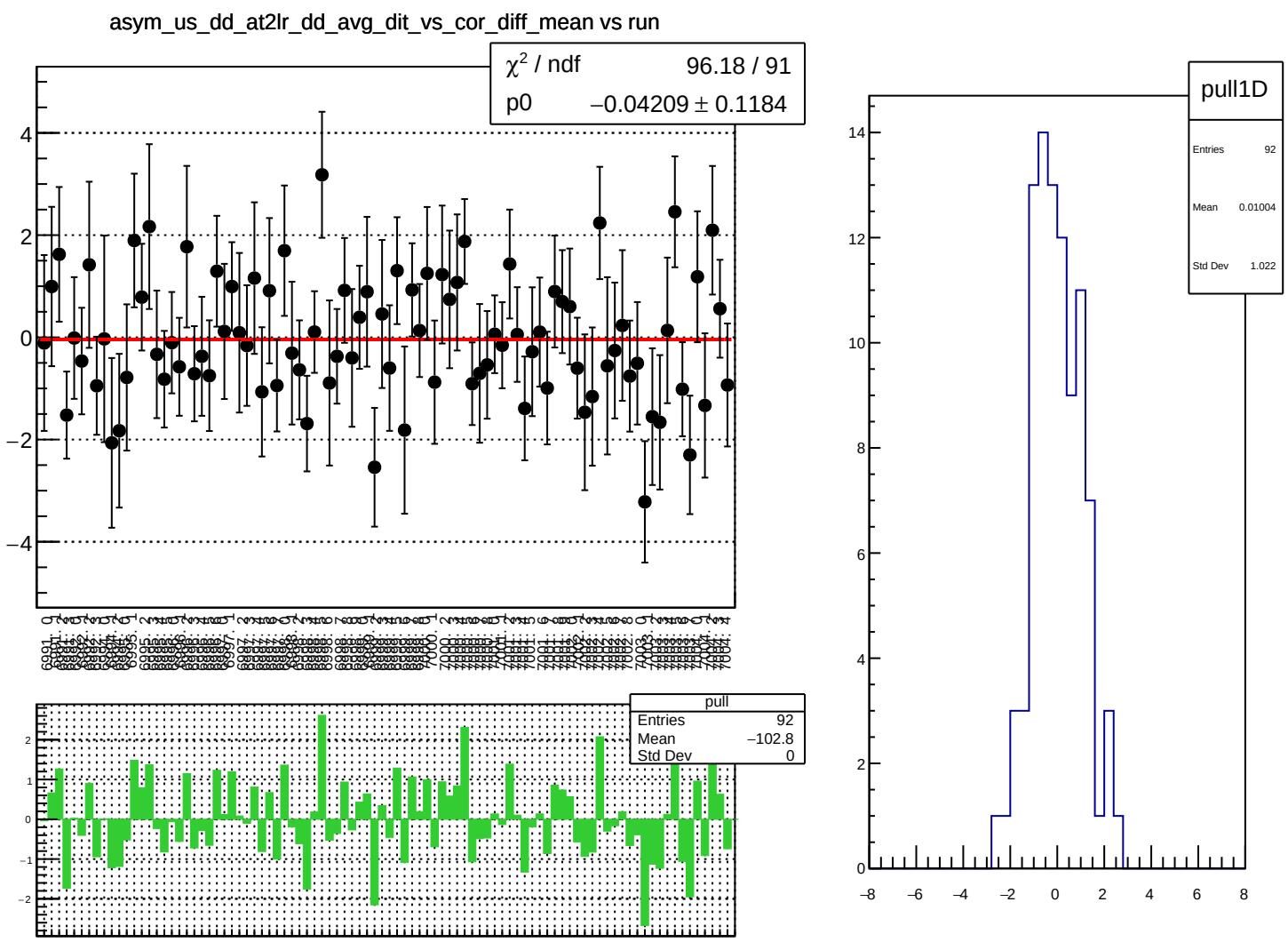

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 102.7 / 91
p0 1295 ± 2797
100
50
0
−50
−100
pull
Entries 92
Mean 279.5
Std Dev 0
3
2
1
0
−1
−2

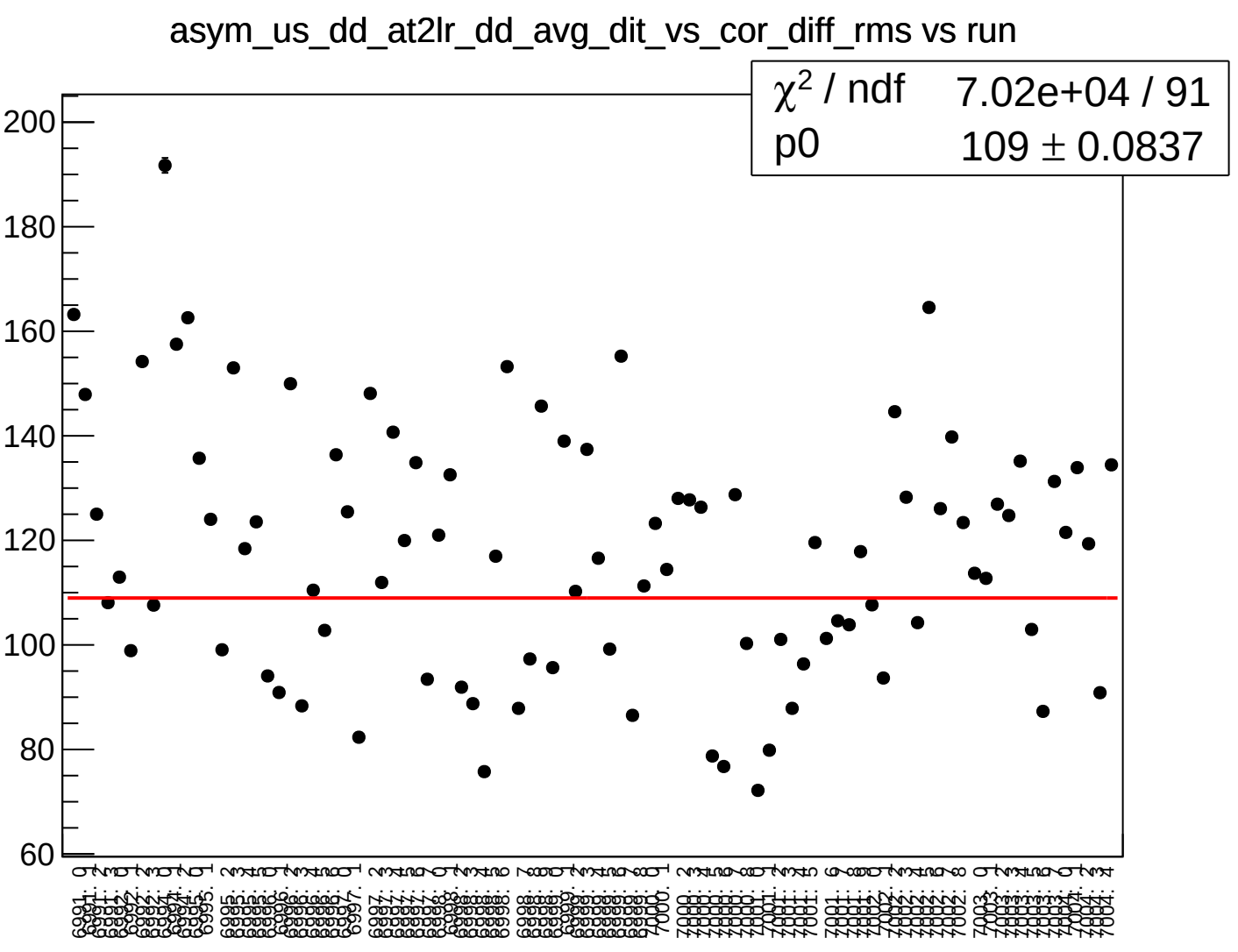

pull1D
Entries 92
Mean −0.008073
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

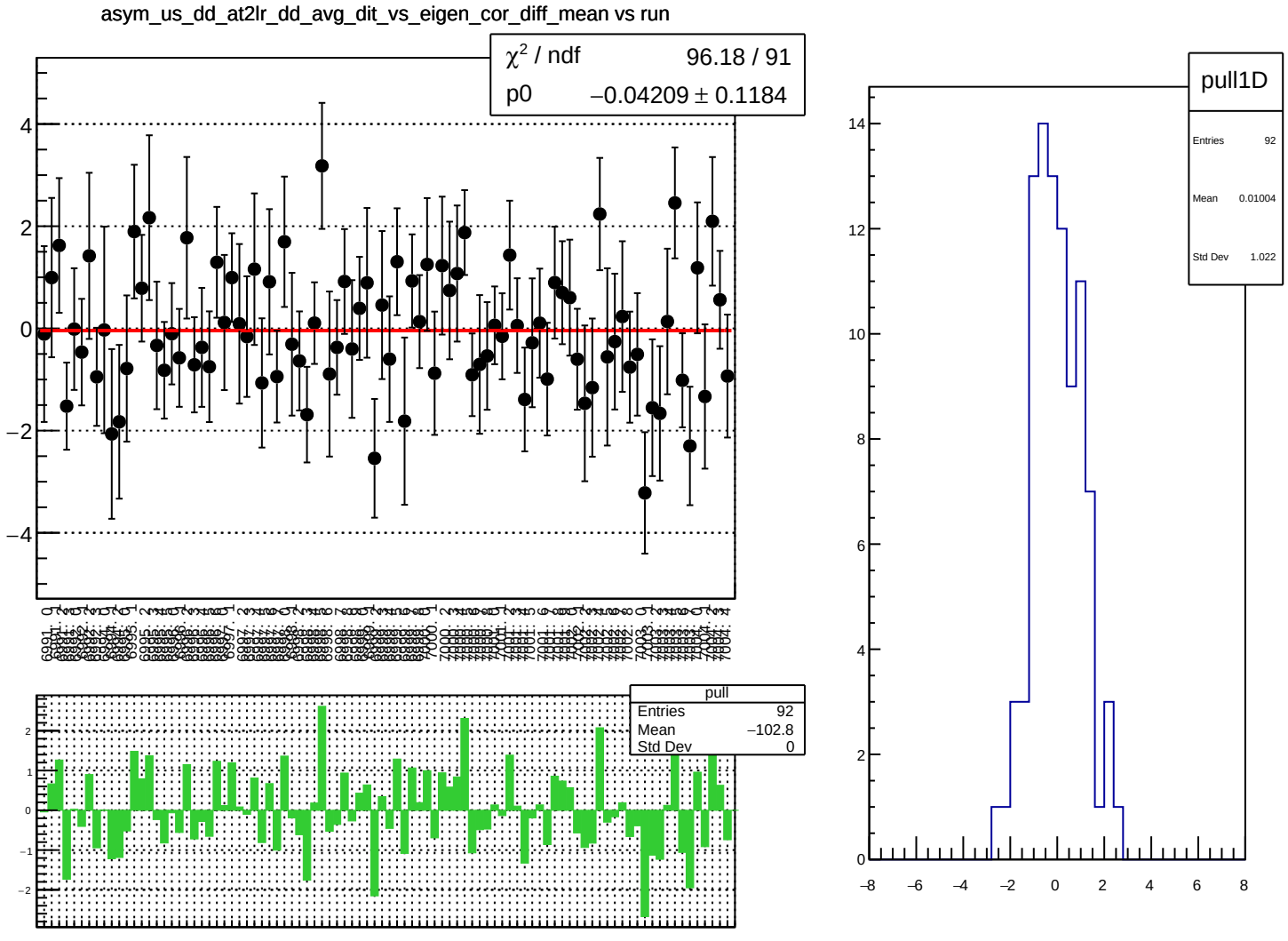

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 401.9 / 91
p0 2628 ± 1.978
2800
2750
2700
2650
2600
2550
2500

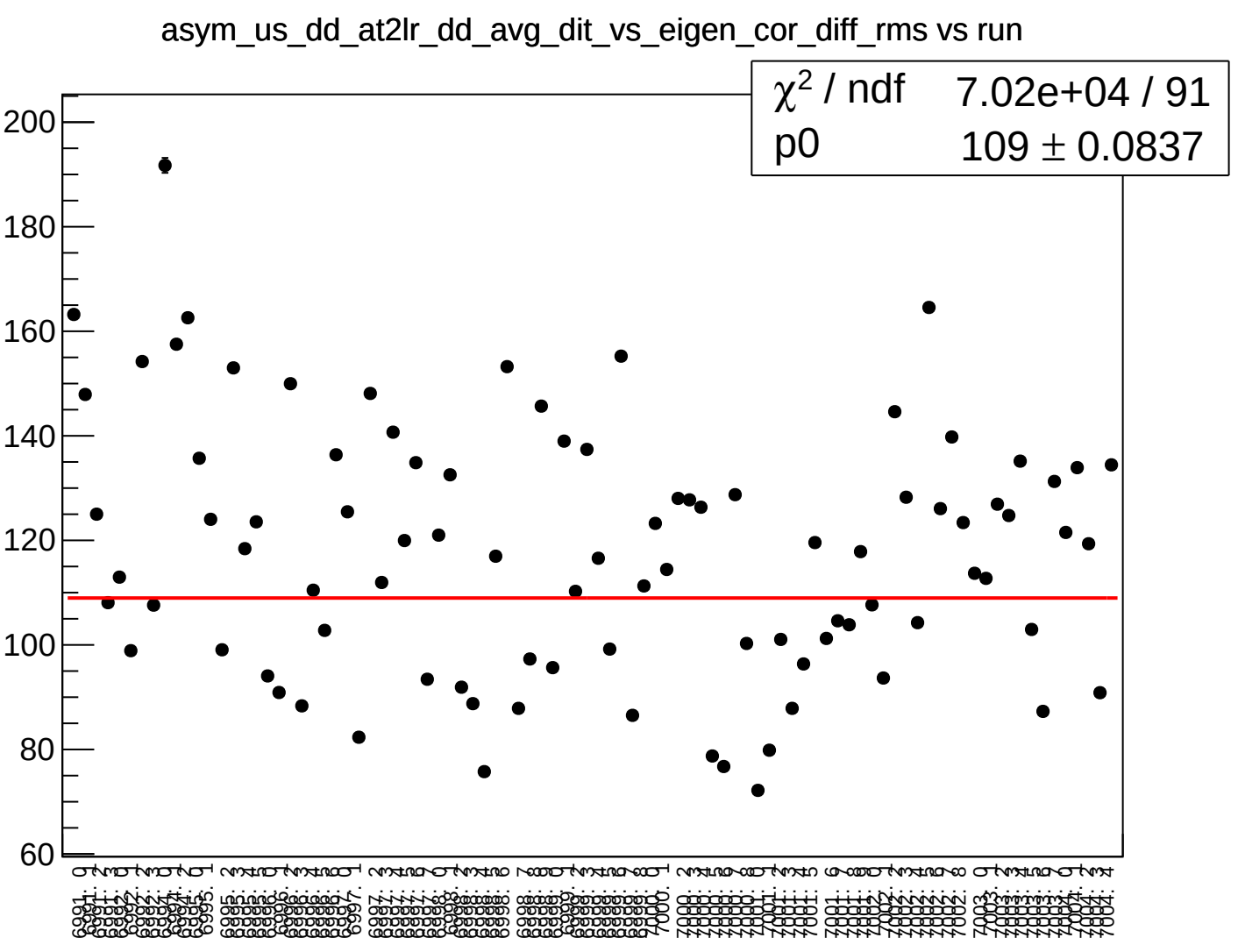

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 91
p0 2.028e−14 ± 4.391e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean −184.1
Std Dev 0
pull1D
Entries 92
Mean −0.02253
Std Dev 1.07

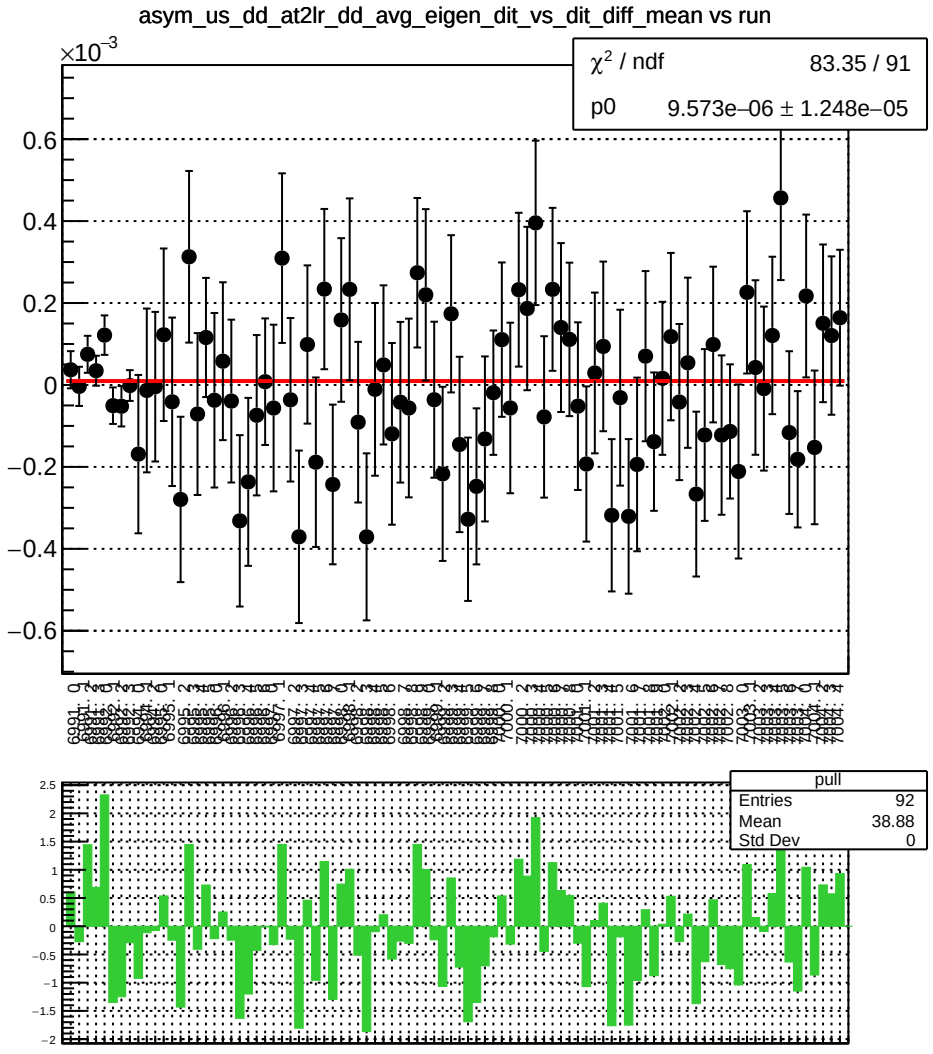

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.161e+06 / 91
p0 2.413e−11 ± 3.105e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

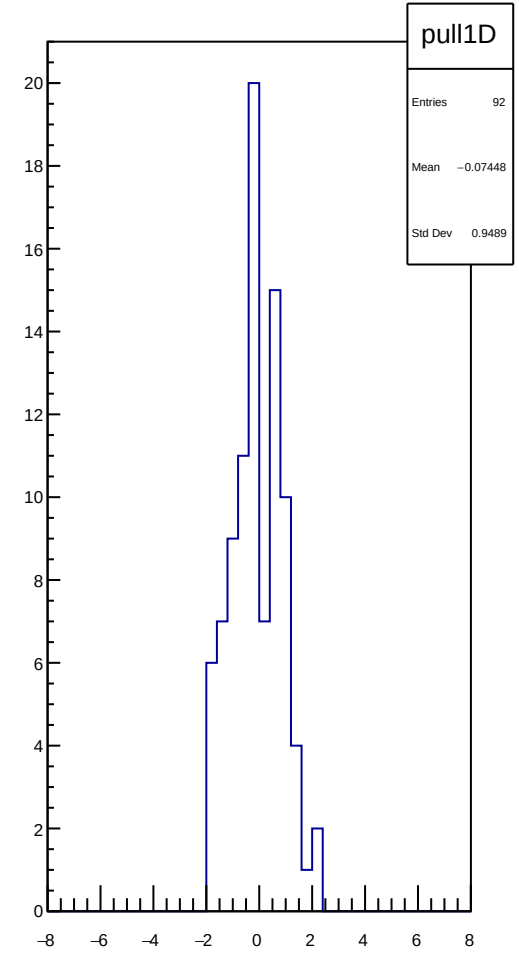

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.18 / 91
p0 −0.04209 ± 0.1184
pull
Entries 92
Mean −102.8
Std Dev 0
pull1D
Entries 92
Mean 0.01004
Std Dev 1.022

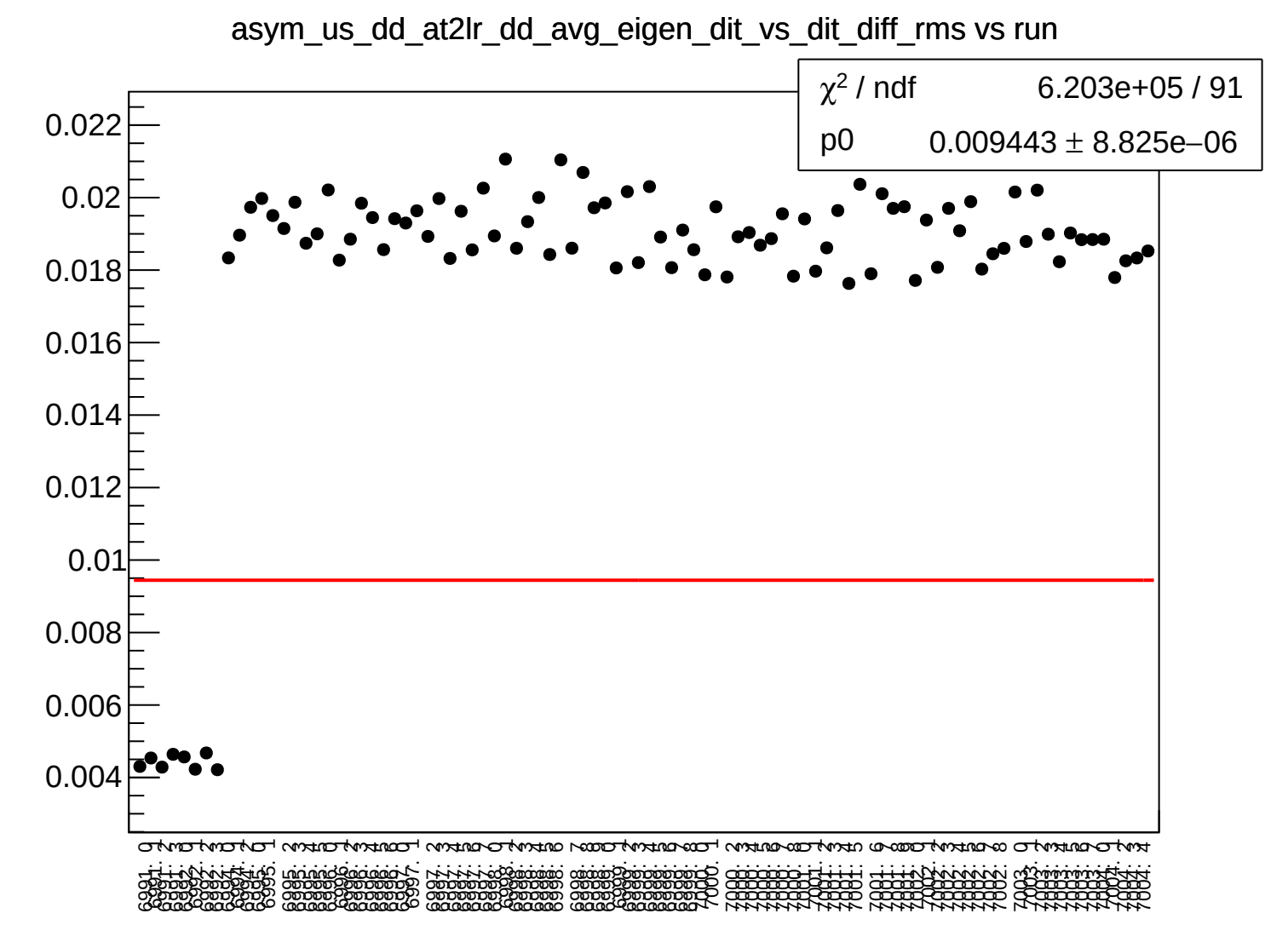

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.02e+04 / 91
p0 109 ± 0.0837
200
180
160
140
120
100
80
60

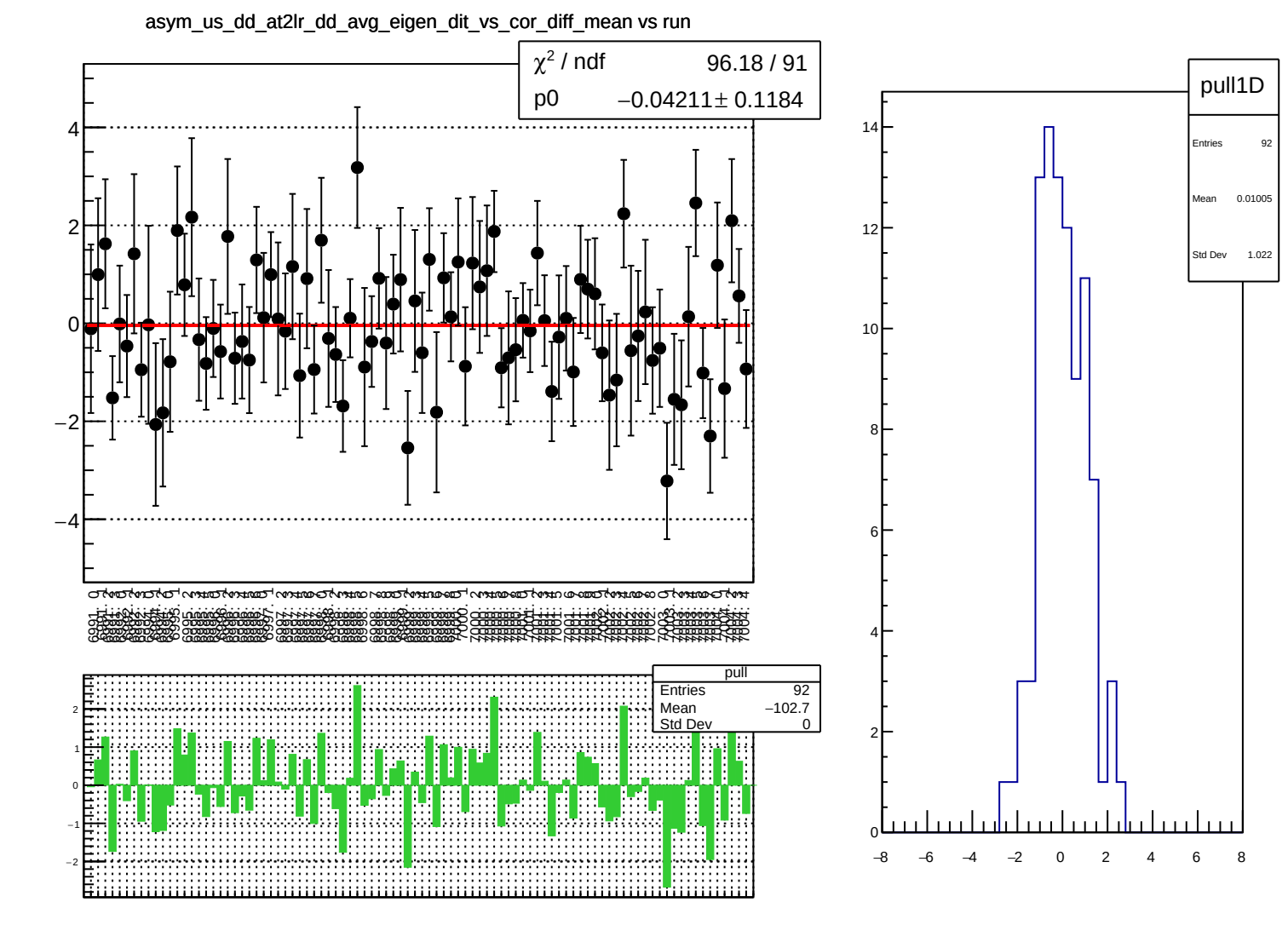

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.18 / 91
p0 −0.04209 ± 0.1184
pull
Entries 92
Mean −102.8
Std Dev 0
pull1D
Entries 92
Mean 0.01004
Std Dev 1.022

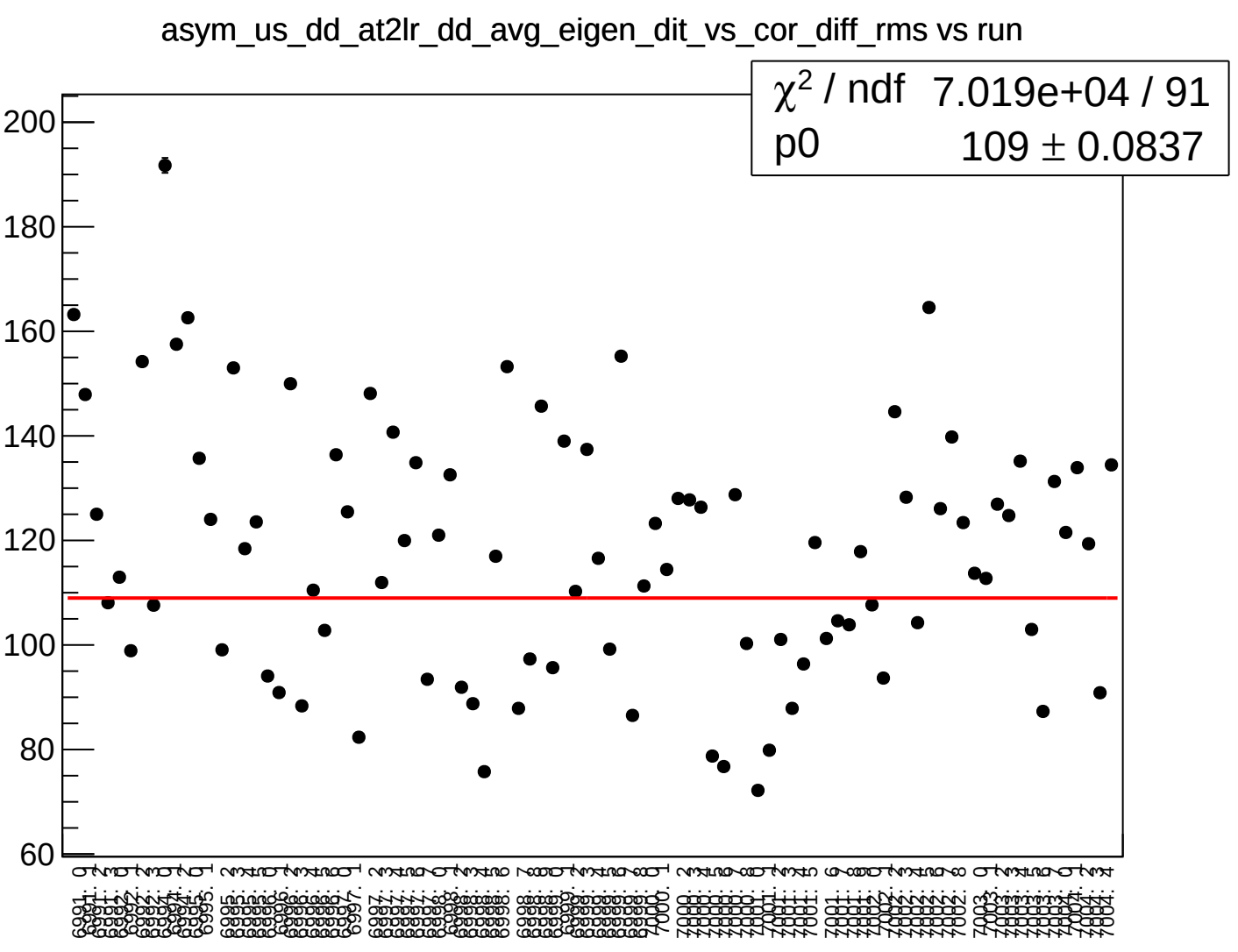

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.02e+04 / 91
p0 109 ± 0.0837
200
180
160
140
120
100
80
60

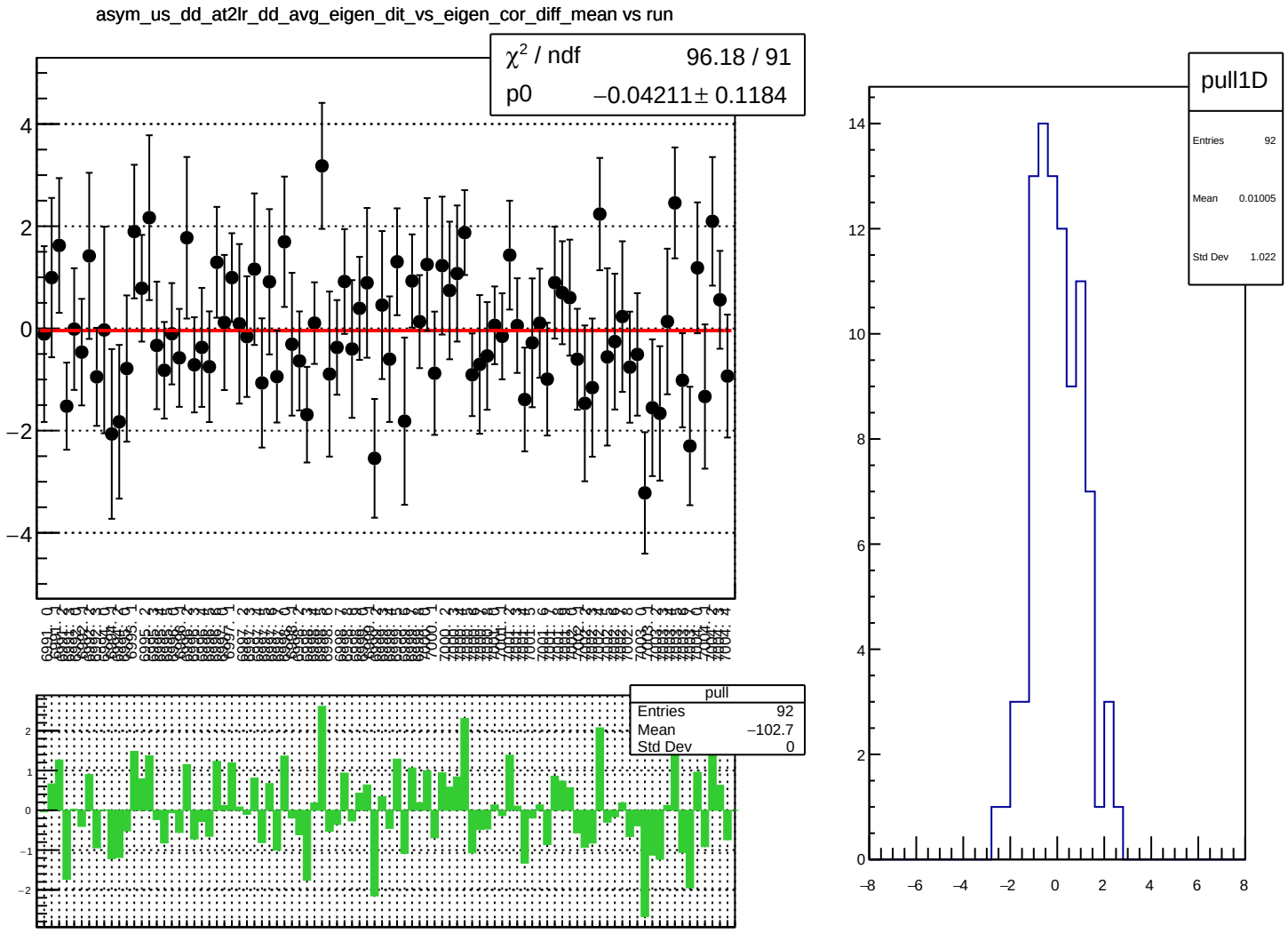

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 83.35 / 91
p0 9.573e−06 ± 1.248e−05
pull
Entries 92
Mean 38.88
Std Dev 0

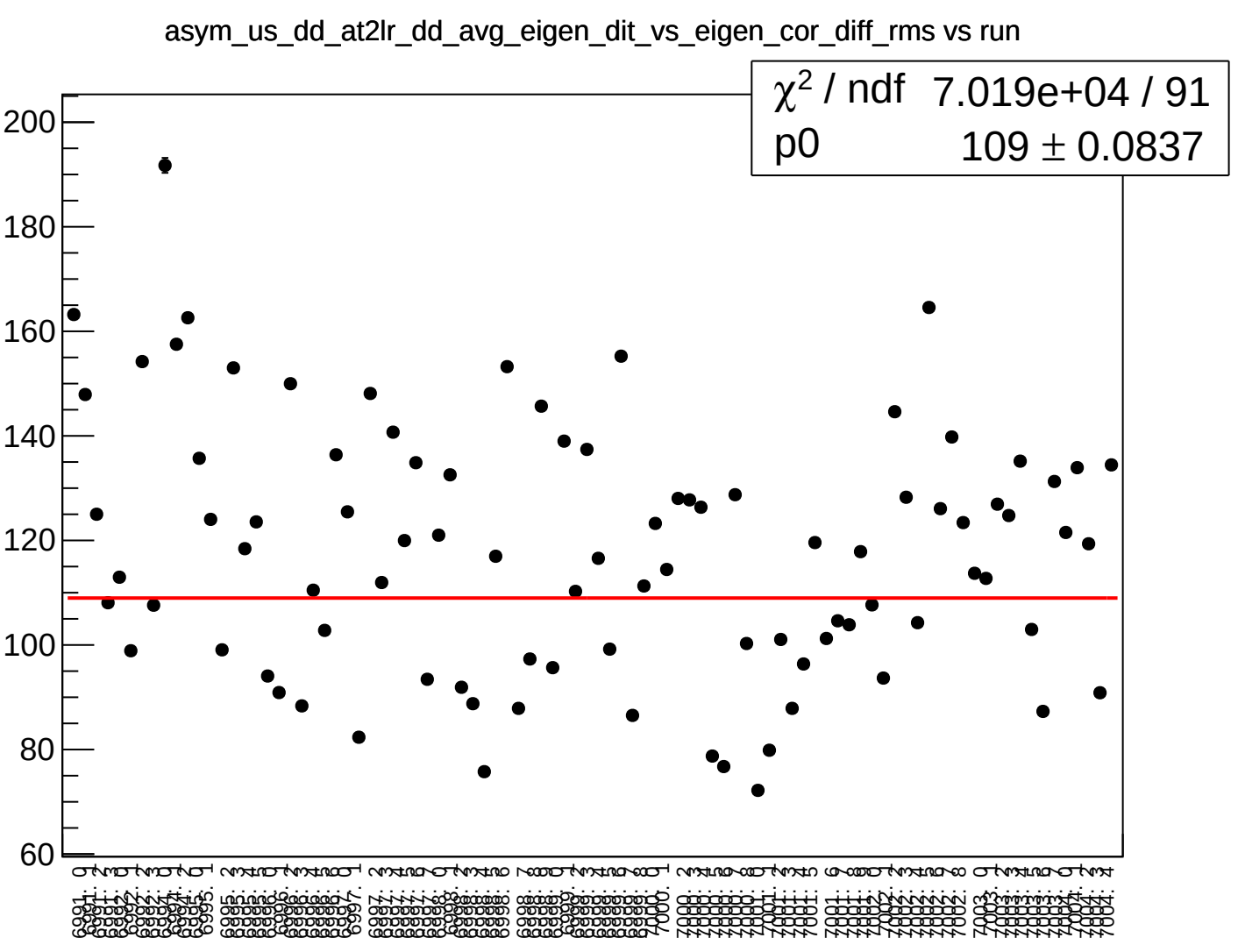

pull1D
Entries 92
Mean −0.07448
Std Dev 0.9489

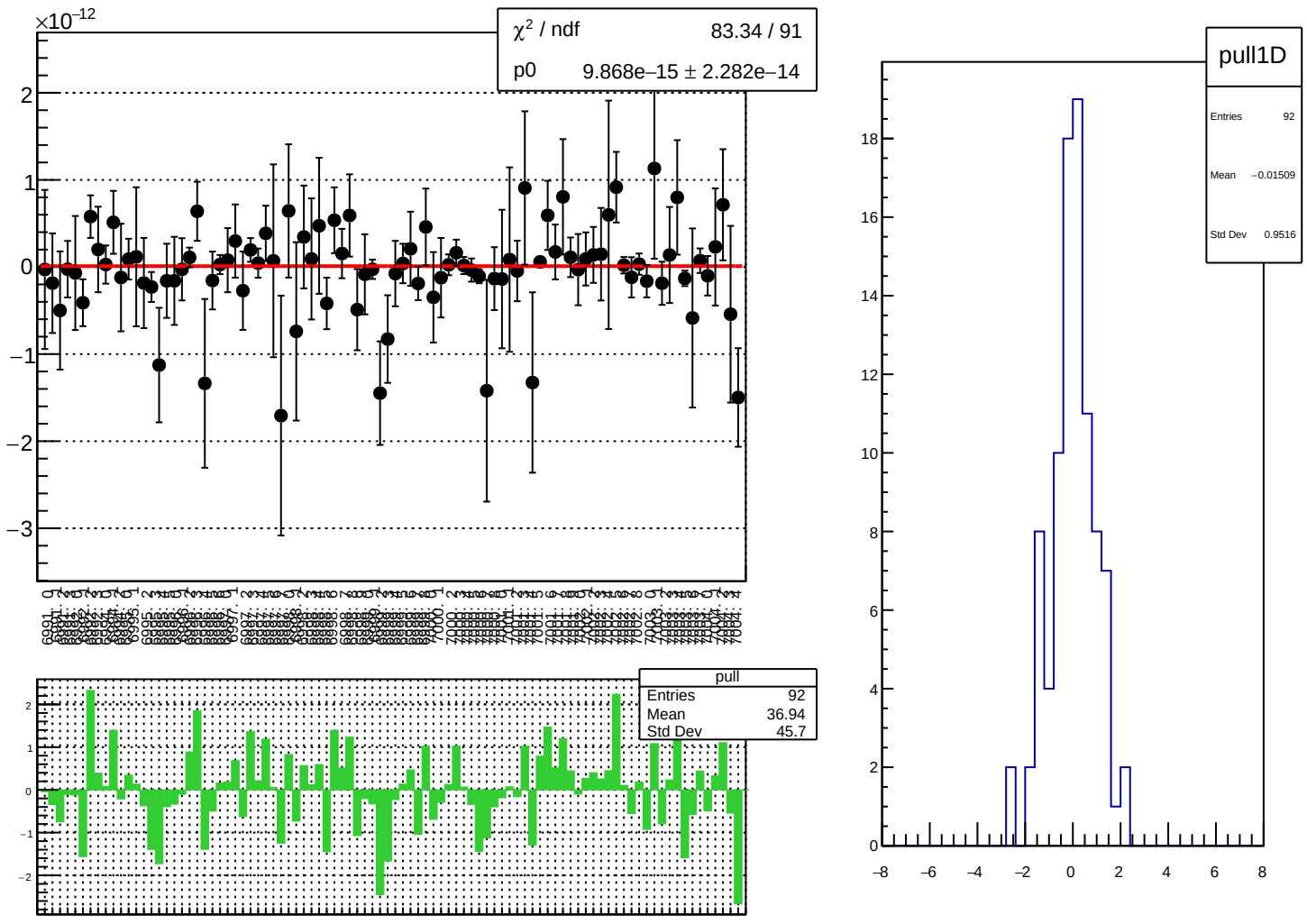

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.203e+05 / 91
p0 0.009443 ± 8.825e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

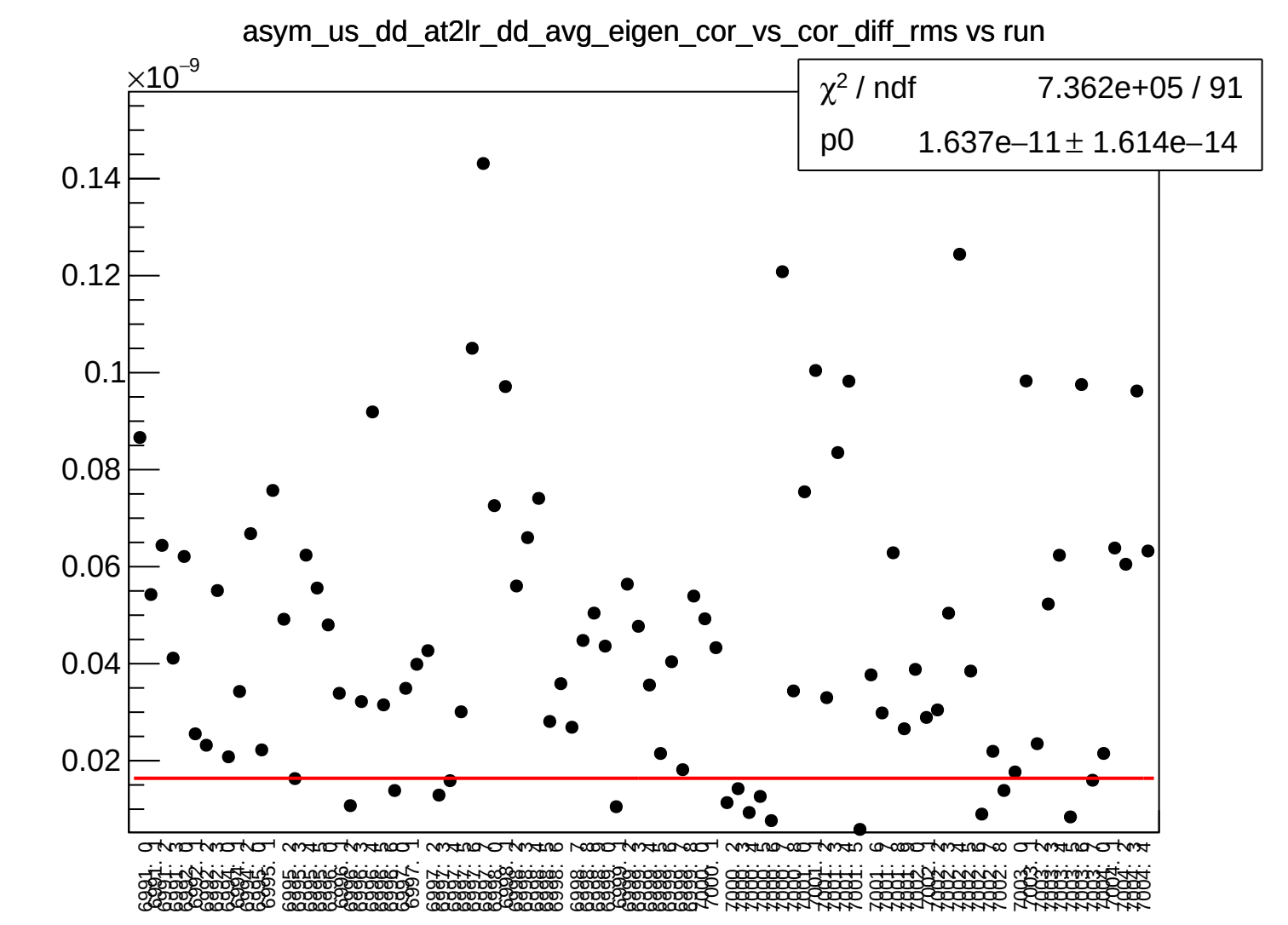

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.18 / 91
p0 −0.04211± 0.1184
pull
Entries 92
Mean −102.7
Std Dev 0
pull1D
Entries 92
Mean 0.01005
Std Dev 1.022

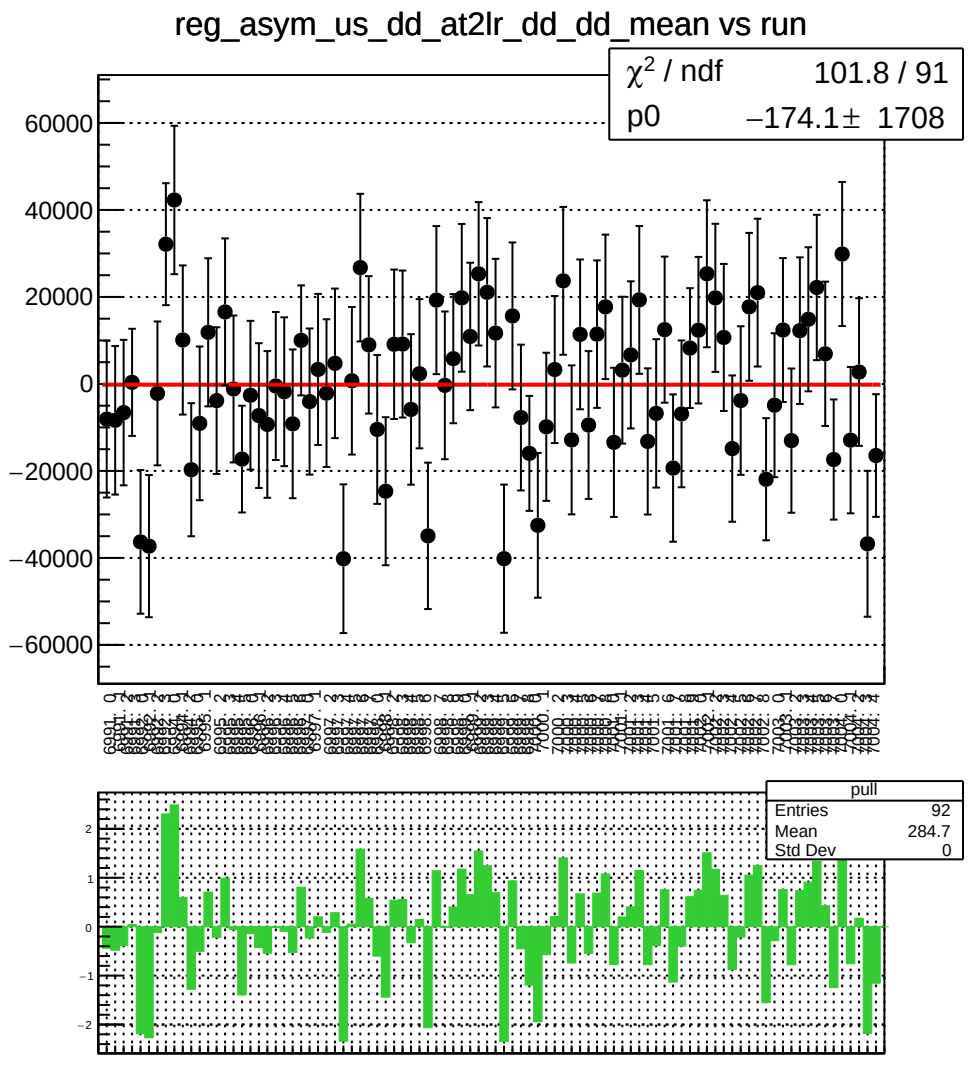

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.019e+04 / 91
p0 109 ± 0.0837
200
180
160
140
120
100
80
60

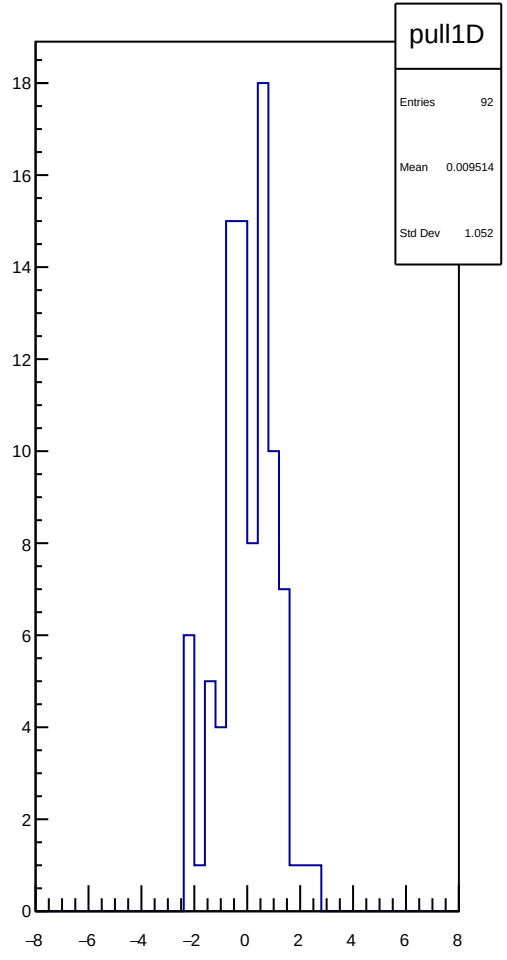

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.18 / 91
p0 −0.04211± 0.1184
pull
Entries 92
Mean −102.7
Std Dev 0
pull1D
Entries 92
Mean 0.01005
Std Dev 1.022

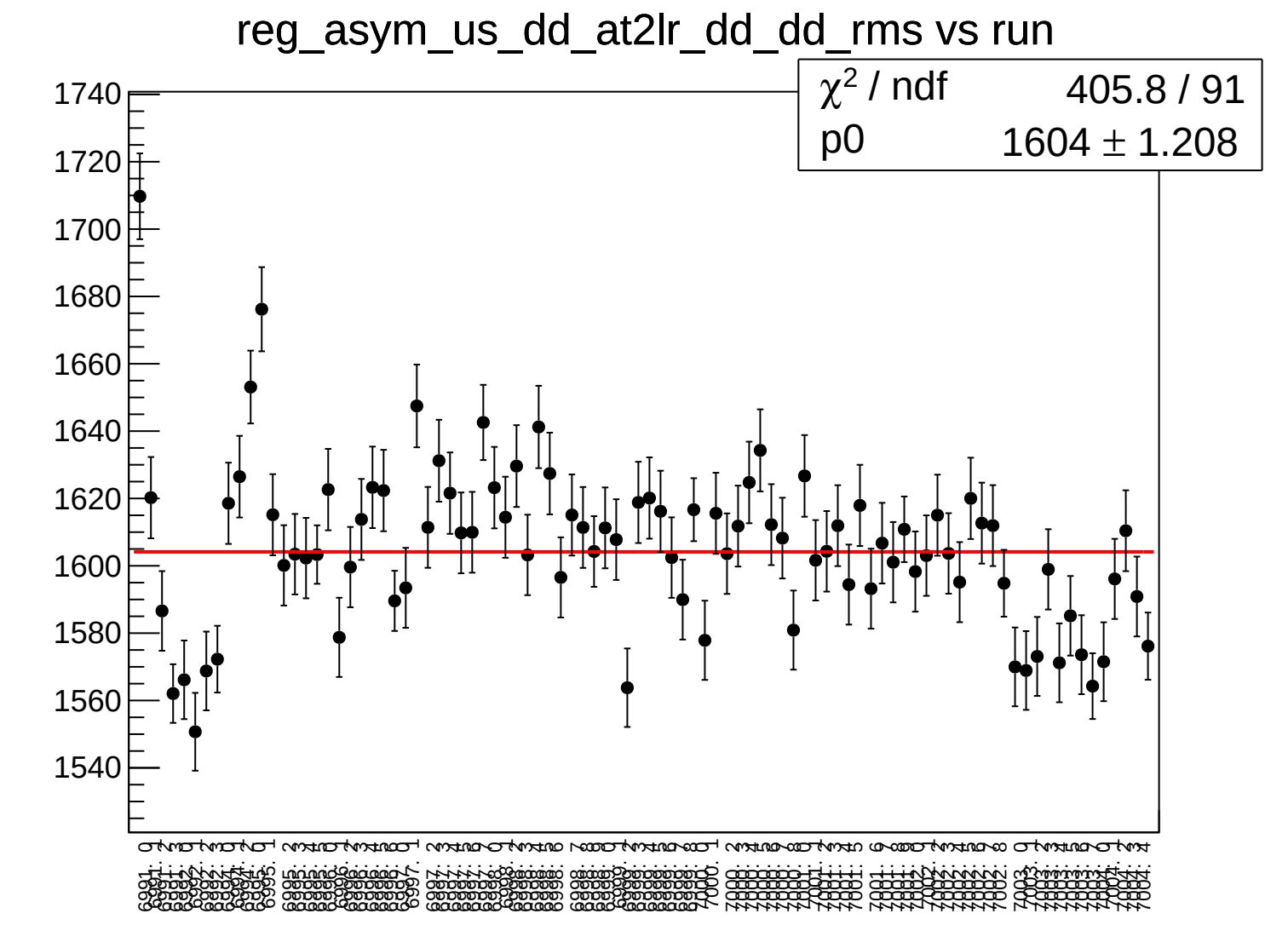

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.019e+04 / 91
p0 109 ± 0.0837
200
180
160
140
120
100
80
60

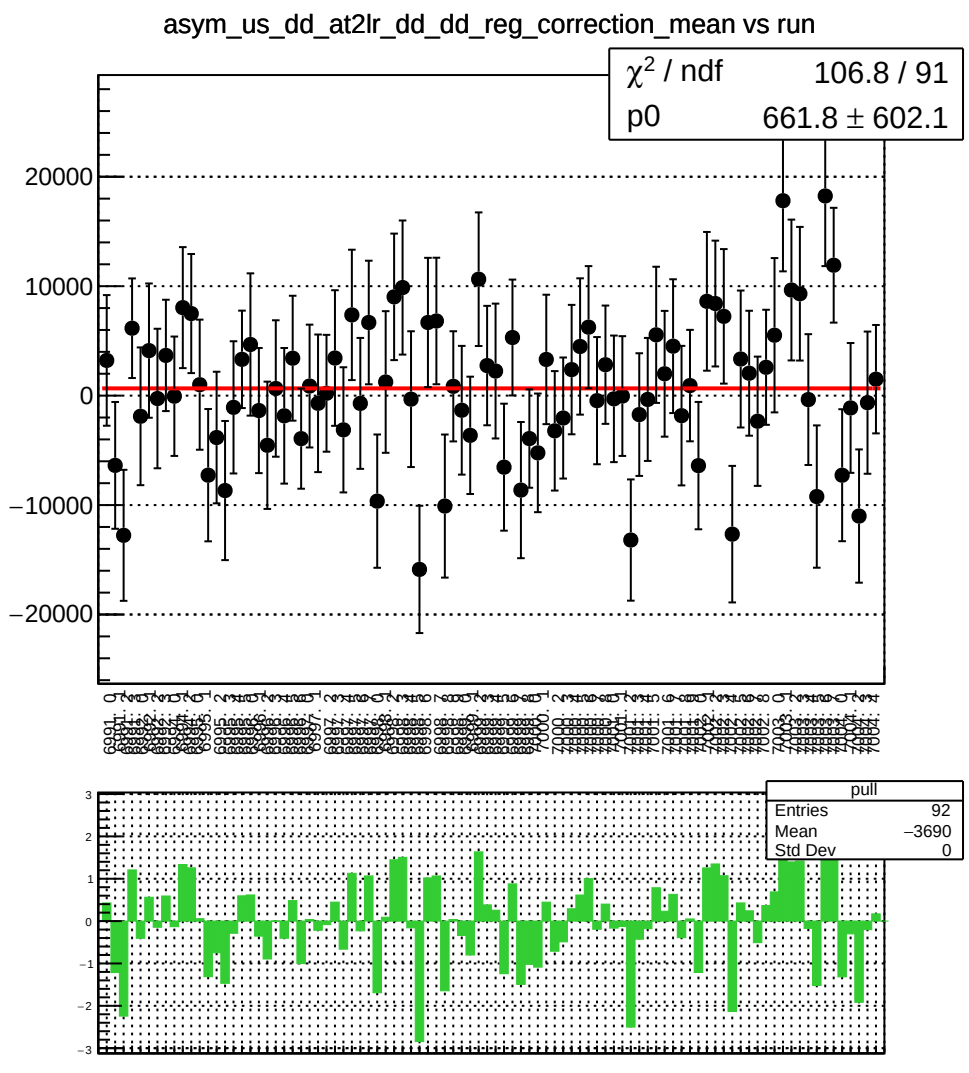

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.34 / 91
p0 9.868e−15 ± 2.282e−14
pull
Entries 92
Mean 36.94
Std Dev 45.7
pull1D
Entries 92
Mean −0.01509
Std Dev 0.9516

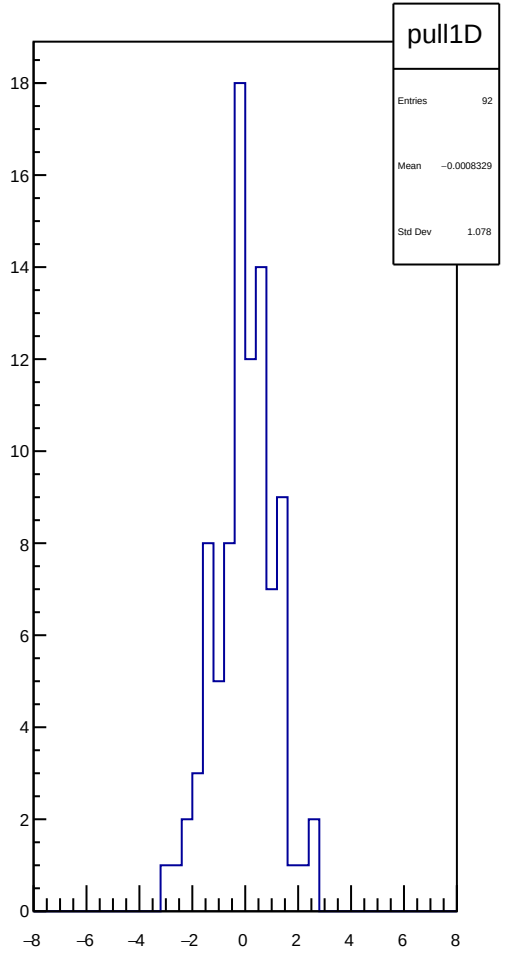

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.362e+05 / 91
p0 1.637e−11 ± 1.614e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

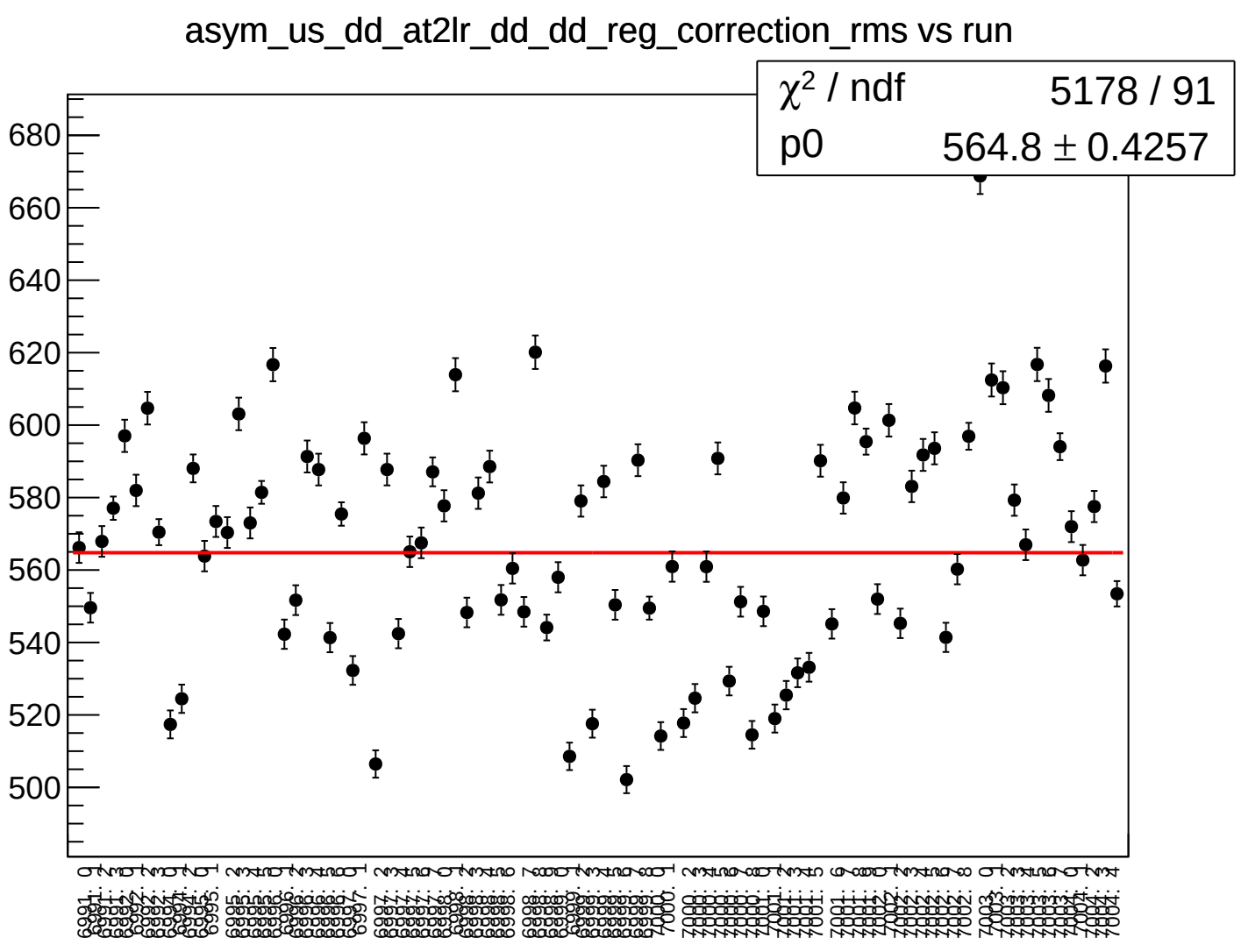

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 101.8 / 91
p0 −174.1± 1708
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 284.7
Std Dev 0
2
1
0
−1
−2

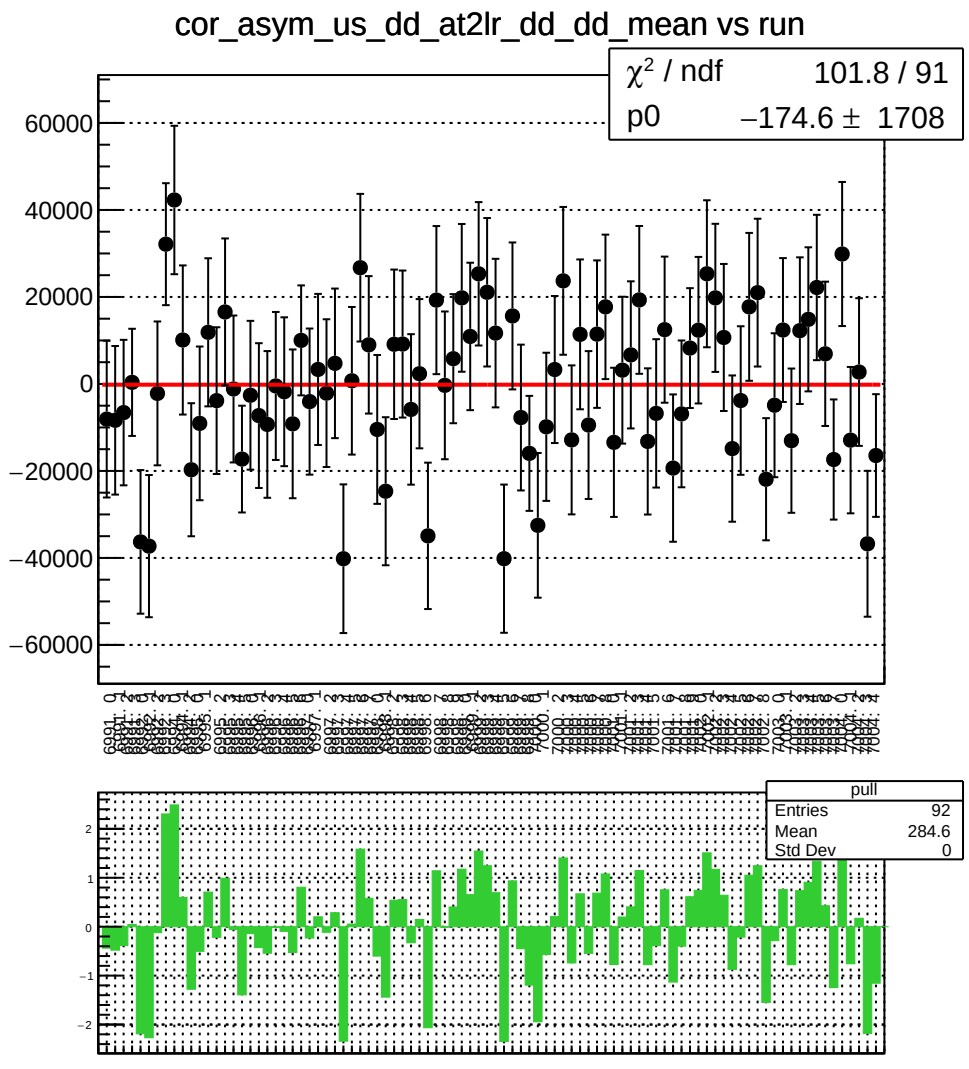

pull1D
Entries 92
Mean 0.009514
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

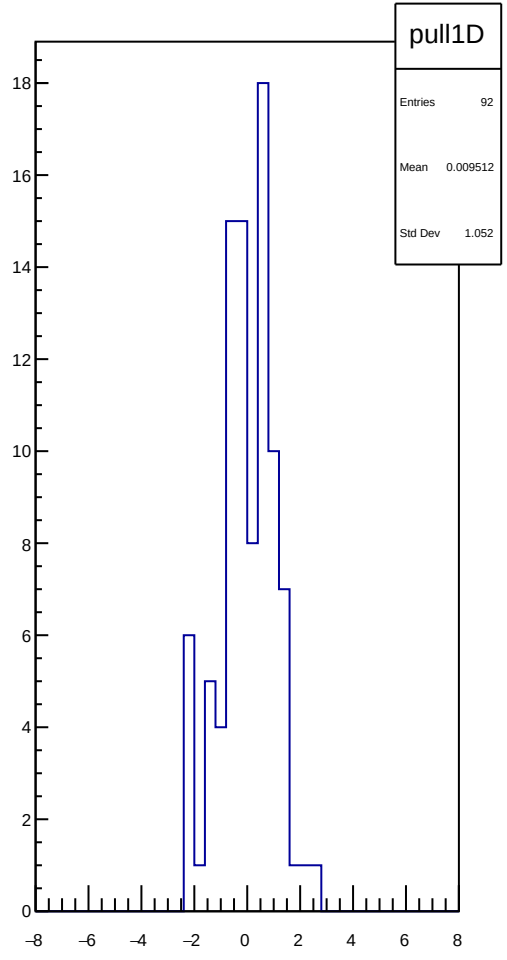

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 405.8 / 91
p0 1604 ± 1.208
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

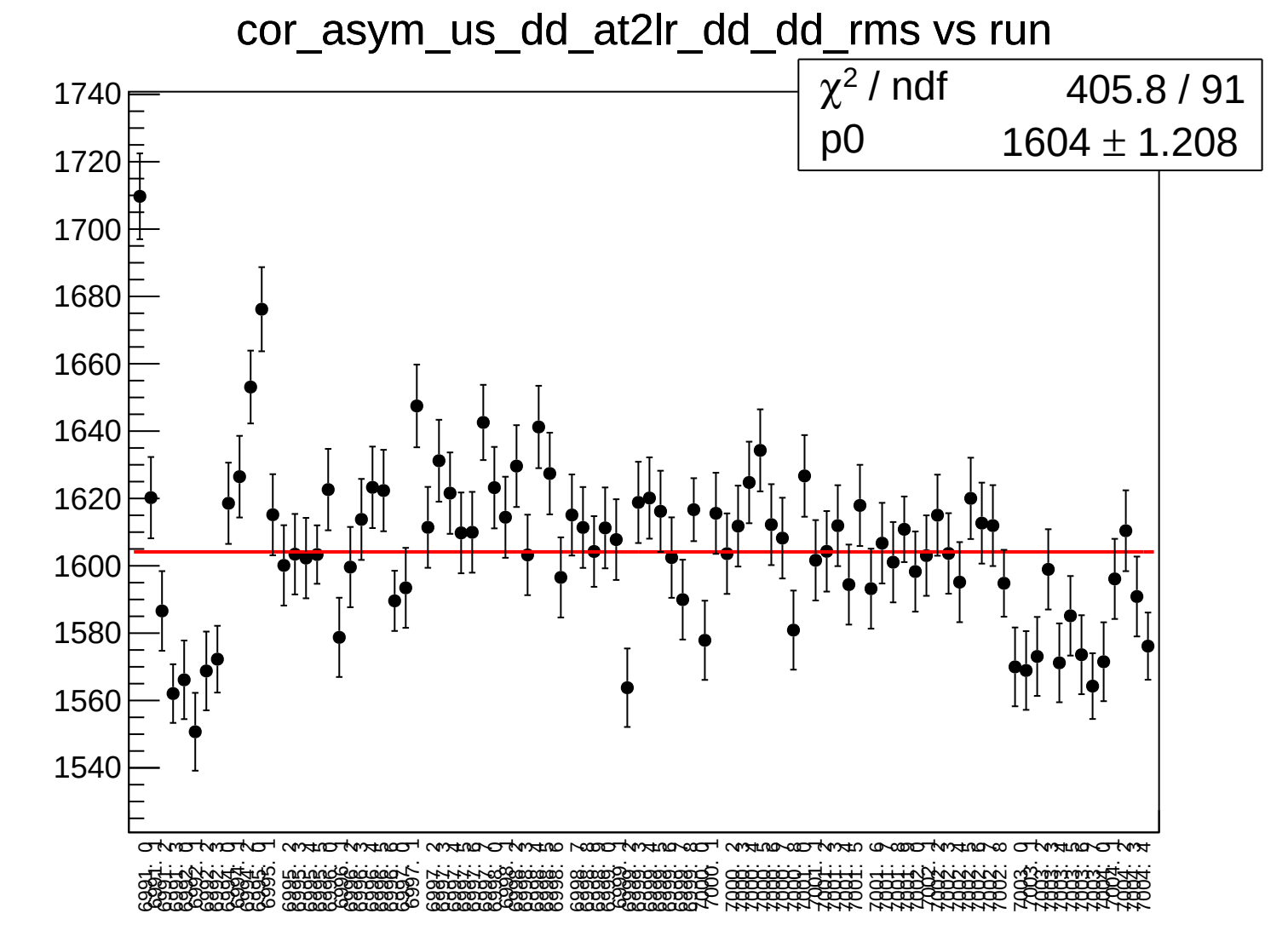

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 106.8 / 91
p0 661.8 ± 602.1
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −3690
Std Dev 0
3
2
1
0
−1
−2
−3

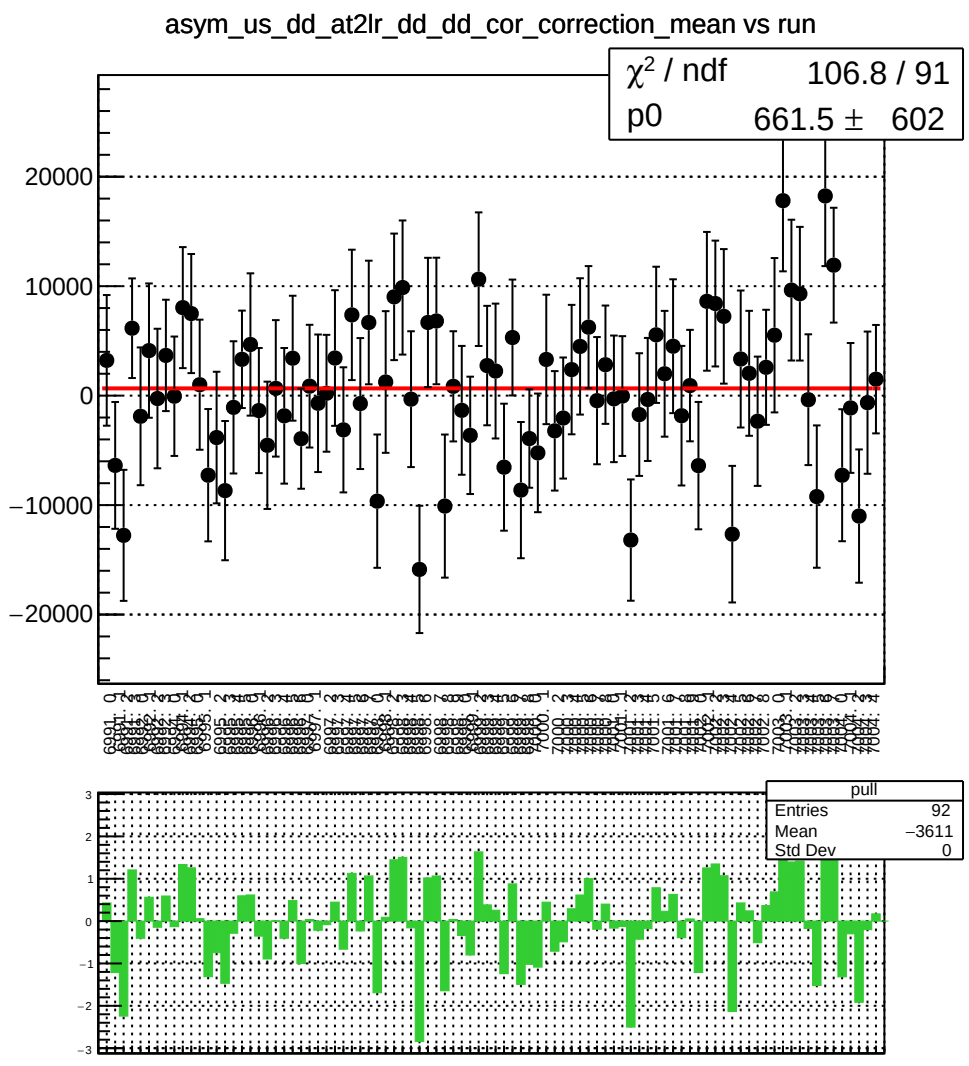

pull1D
Entries 92
Mean −0.0008329
Std Dev 1.078
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

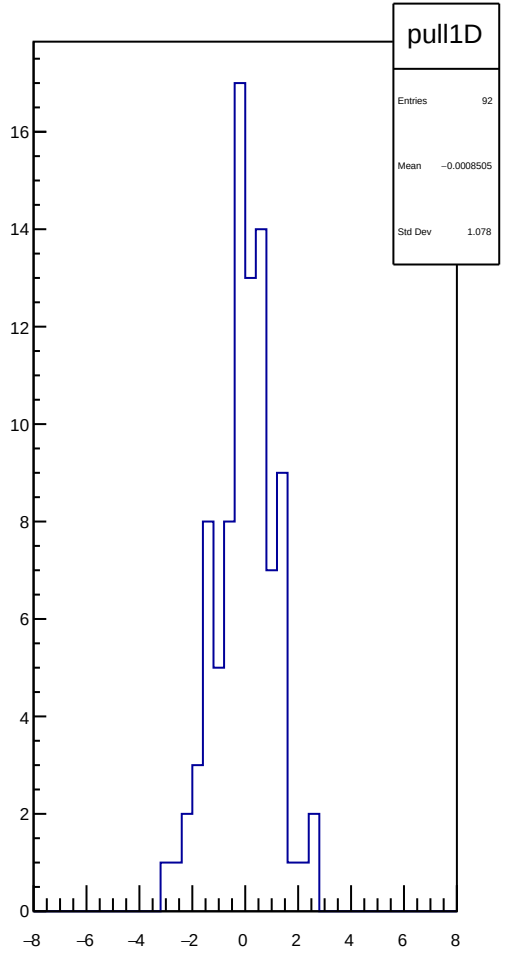

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5178 / 91
p0 564.8 ± 0.4257
680
660
640
620
600
580
560
540
520
500

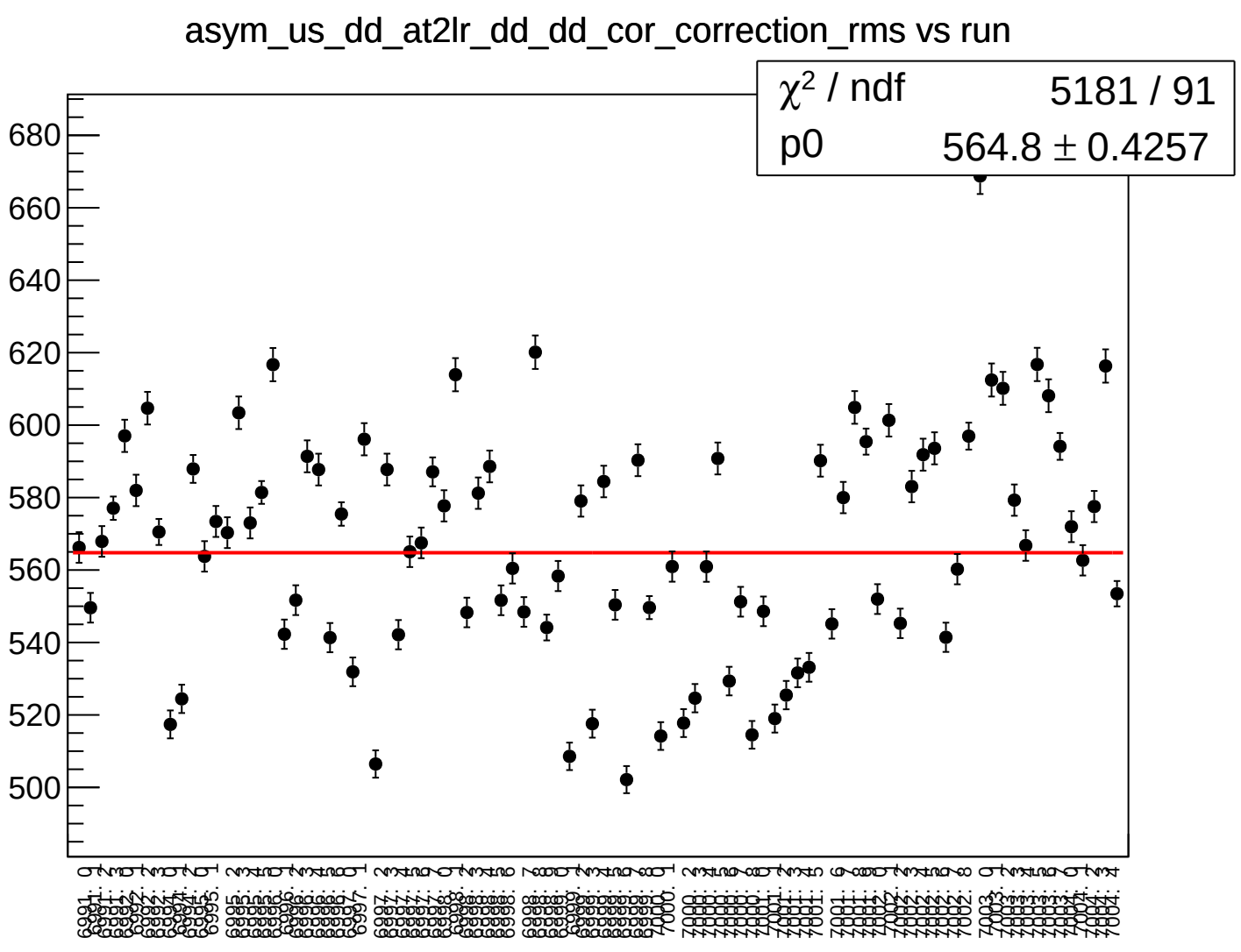

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 101.8 / 91
p0 −174.6 ± 1708
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 284.6
Std Dev 0
2
1
0
−1
−2

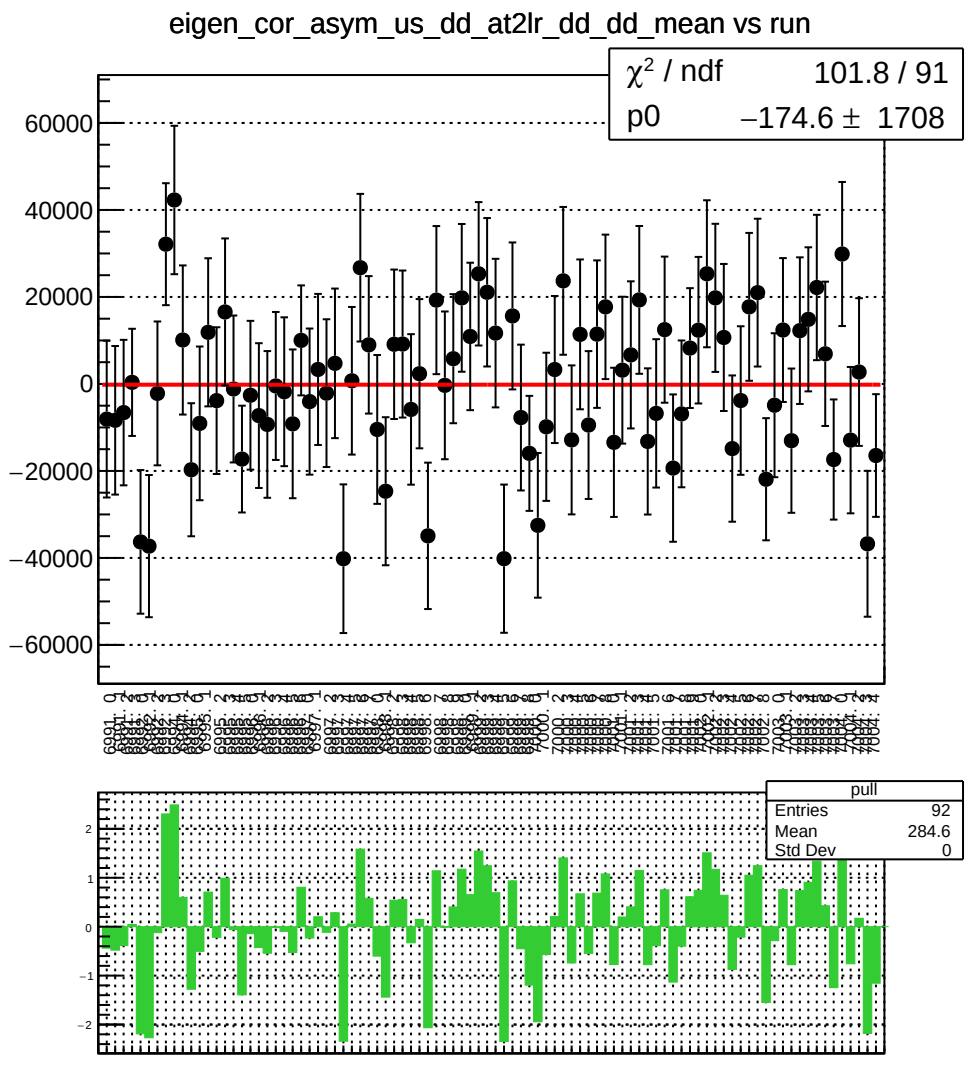

pull1D
Entries 92
Mean 0.009512
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

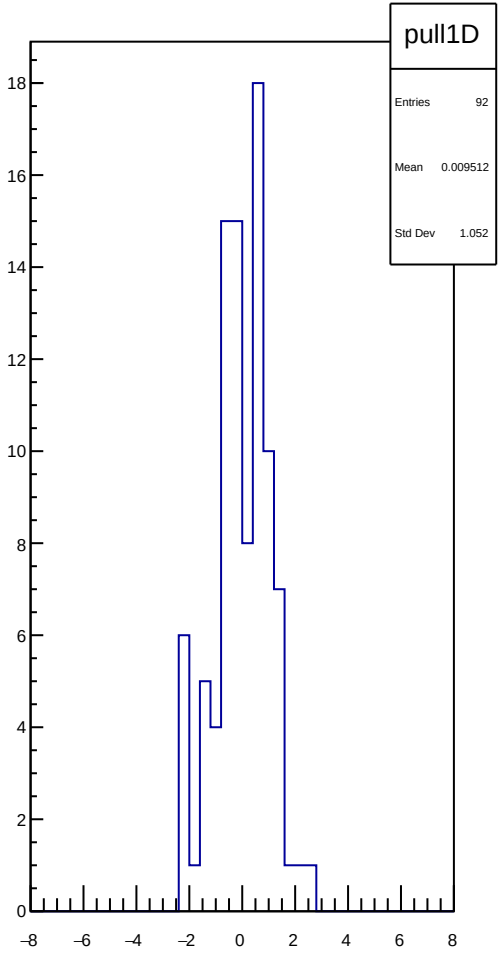

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 405.8 / 91
p0 1604 ± 1.208
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

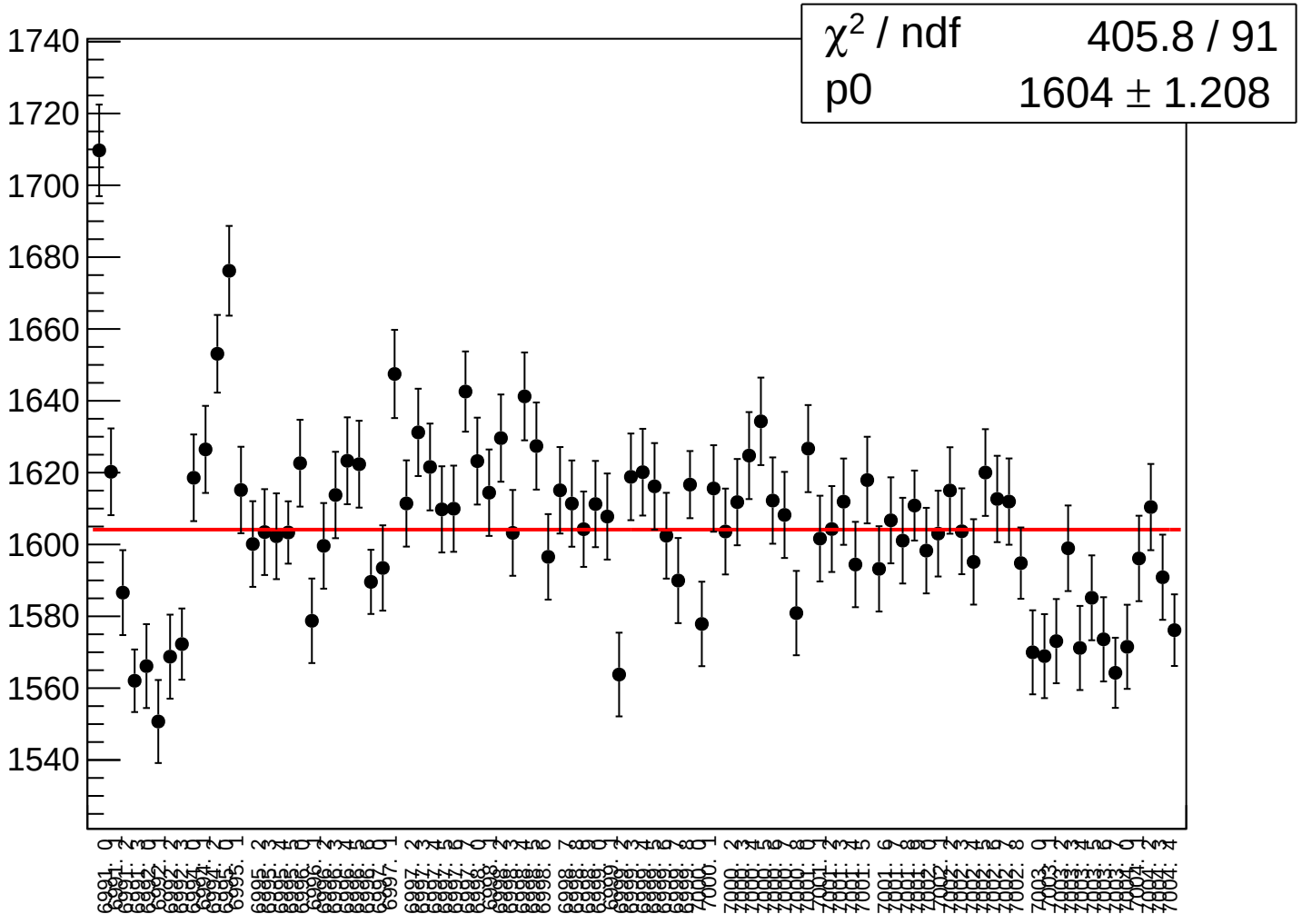

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 106.8 / 91
p0 661.5 ± 602
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −3611
Std Dev 0
3
2
1
0
−1
−2
−3

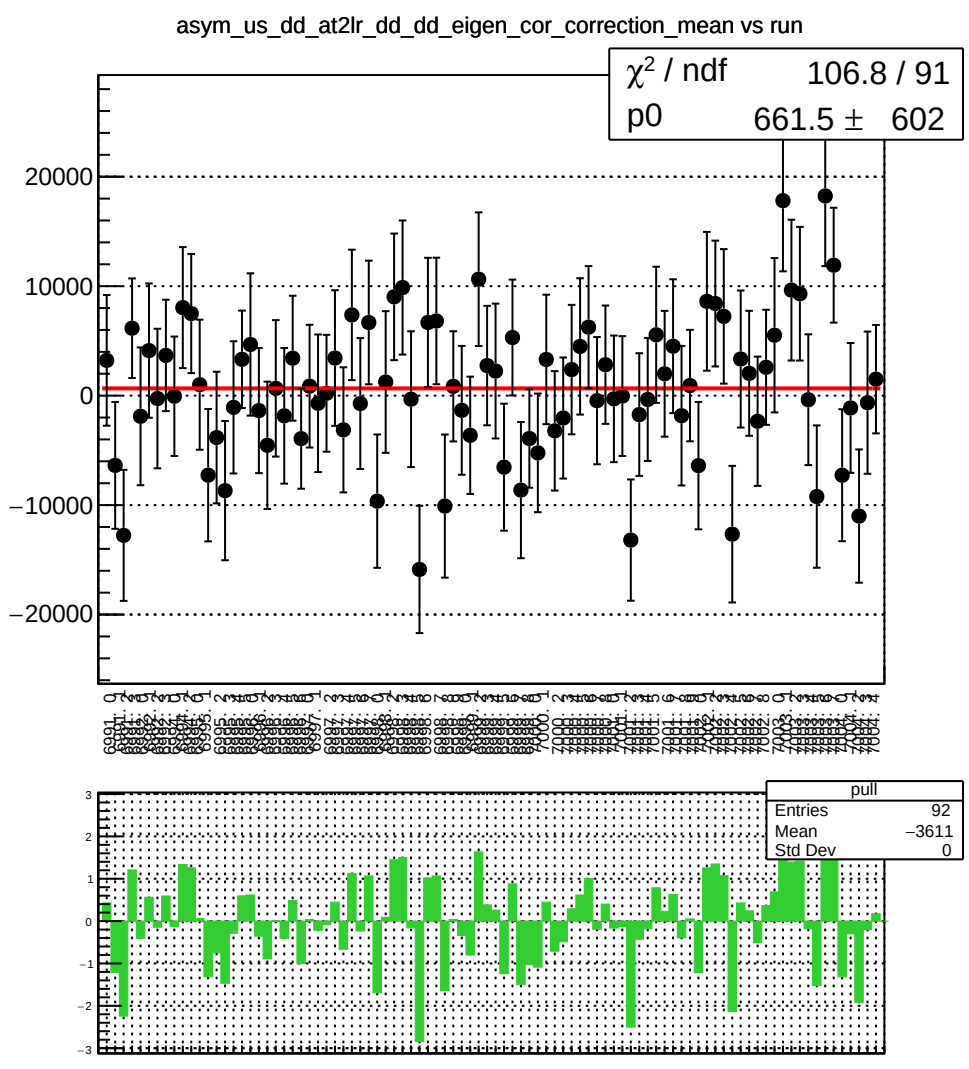

pull1D
Entries 92
Mean −0.0008505
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

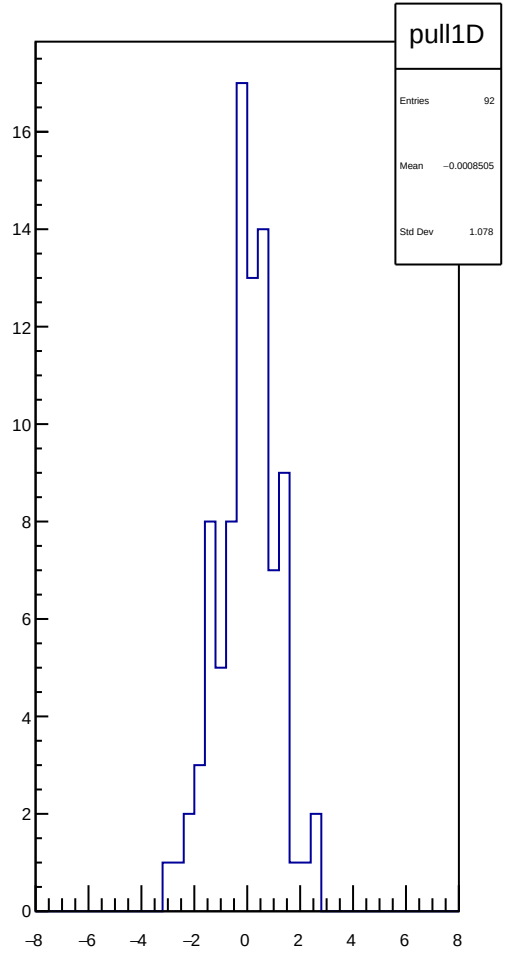

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5181 / 91
p0 564.8 ± 0.4257
680
660
640
620
600
580
560
540
520
500

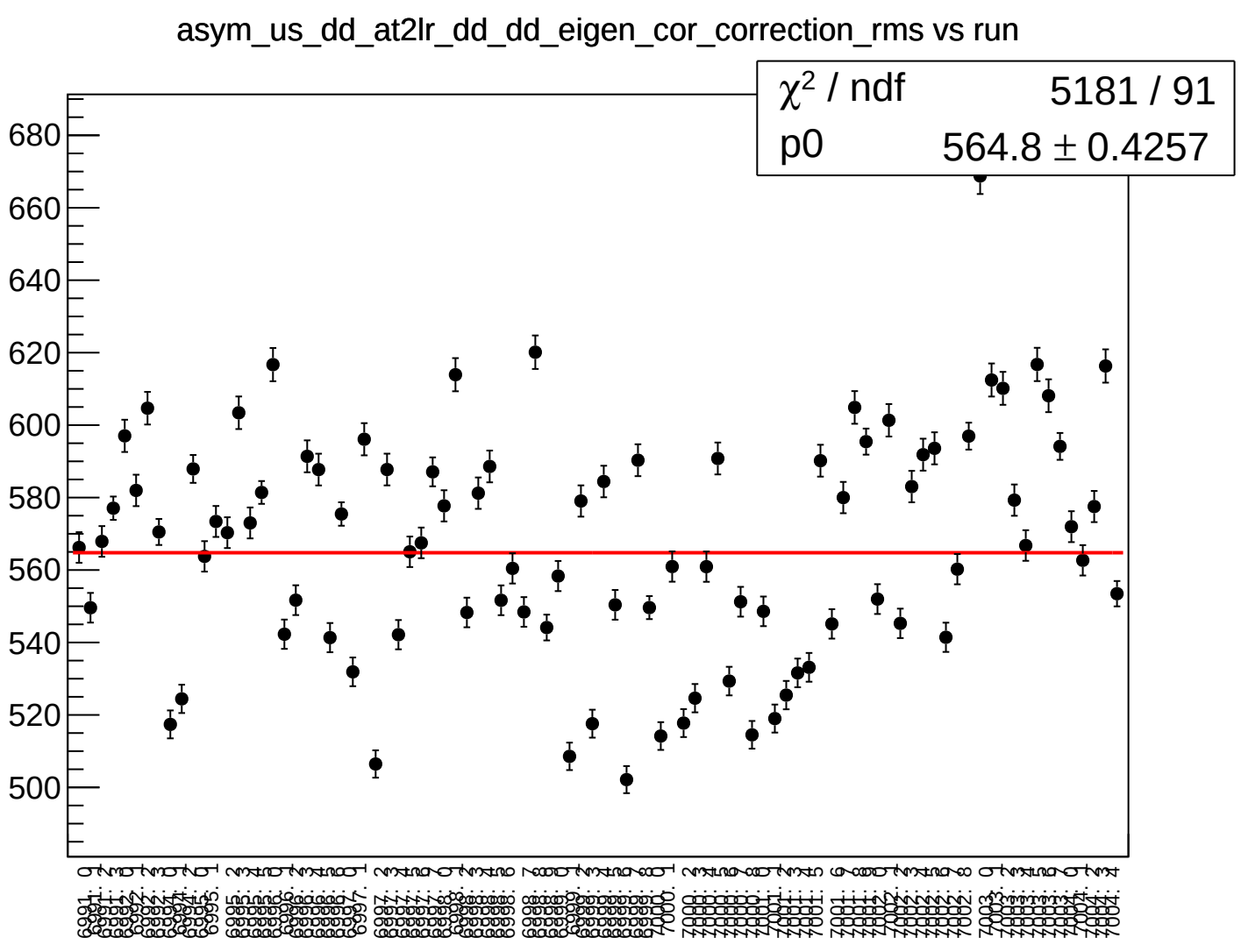

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 101.8 / 91
p0 −174.6 ± 1708
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 284.6
Std Dev 0
2
1
0
−1
−2

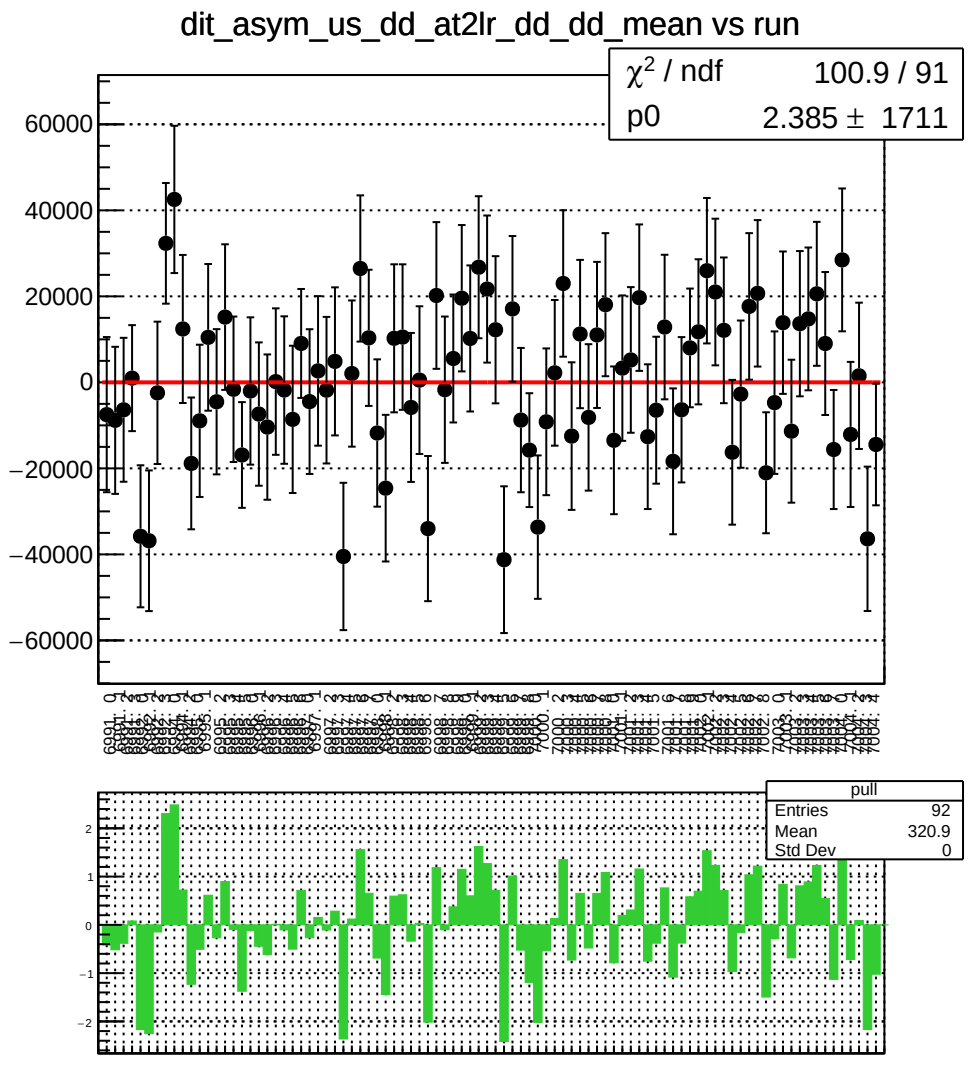

pull1D
Entries 92
Mean 0.009512
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

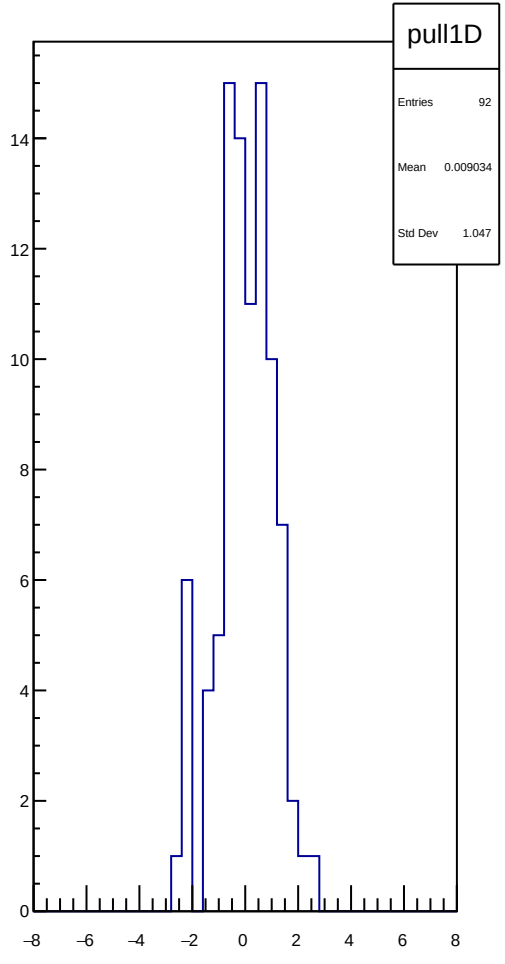

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 405.8 / 91
p0 1604 ± 1.208
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

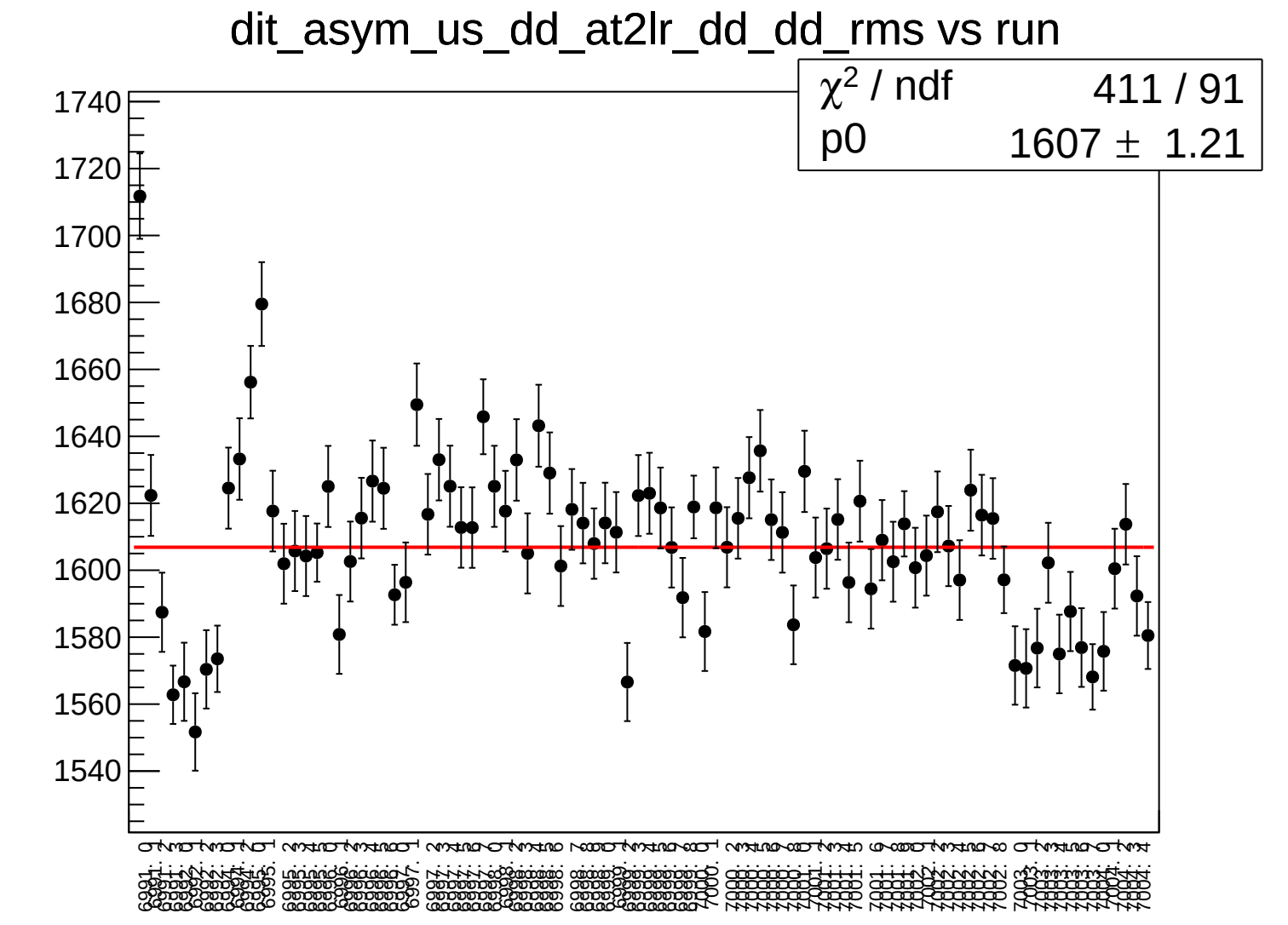

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 106.8 / 91
p0 661.5 ± 602
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −3611
Std Dev 0
3
2
1
0
−1
−2
−3

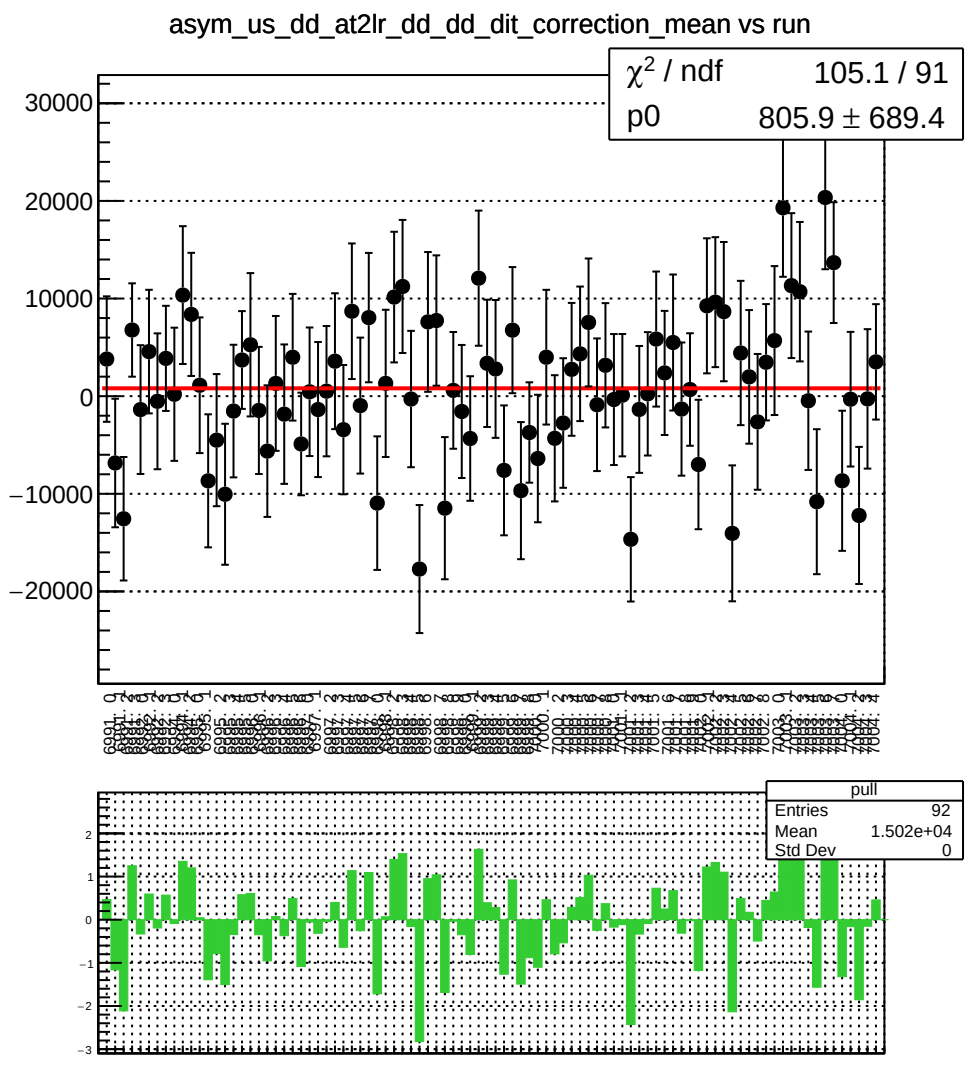

pull1D
Entries 92
Mean −0.0008505
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

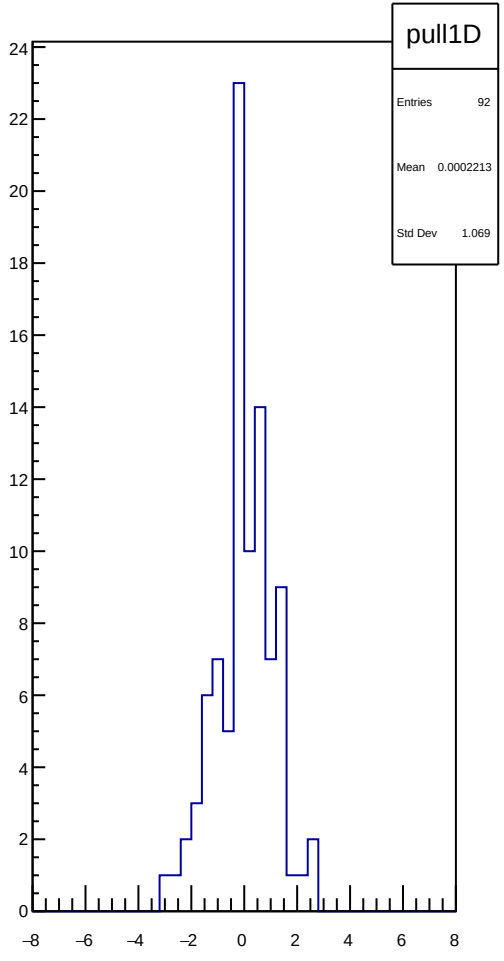

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5181 / 91
p0 564.8 ± 0.4257
680
660
640
620
600
580
560
540
520
500

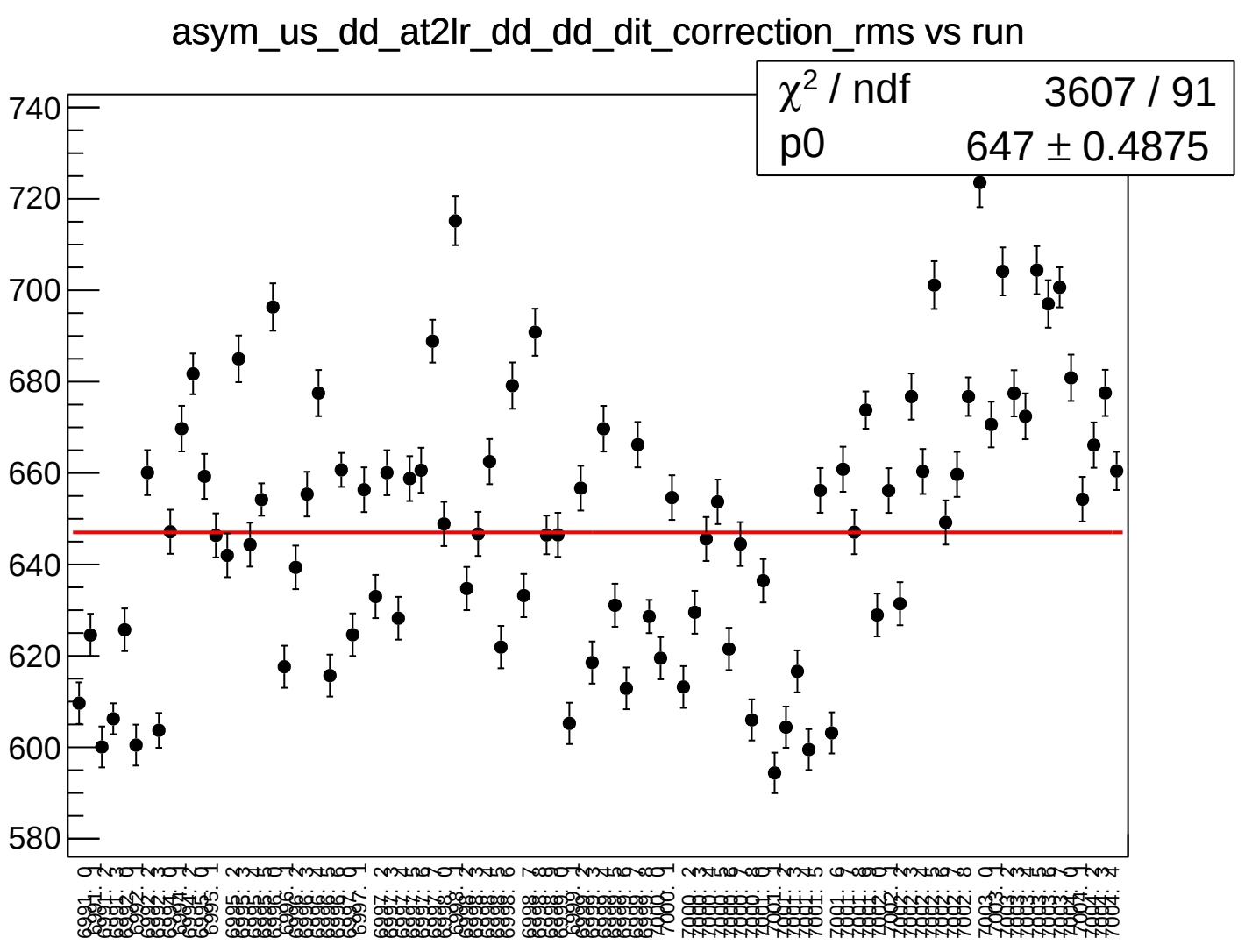

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 100.9 / 91
p0 2.385 ± 1711
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 320.9
Std Dev 0
2
1
0
−1
−2

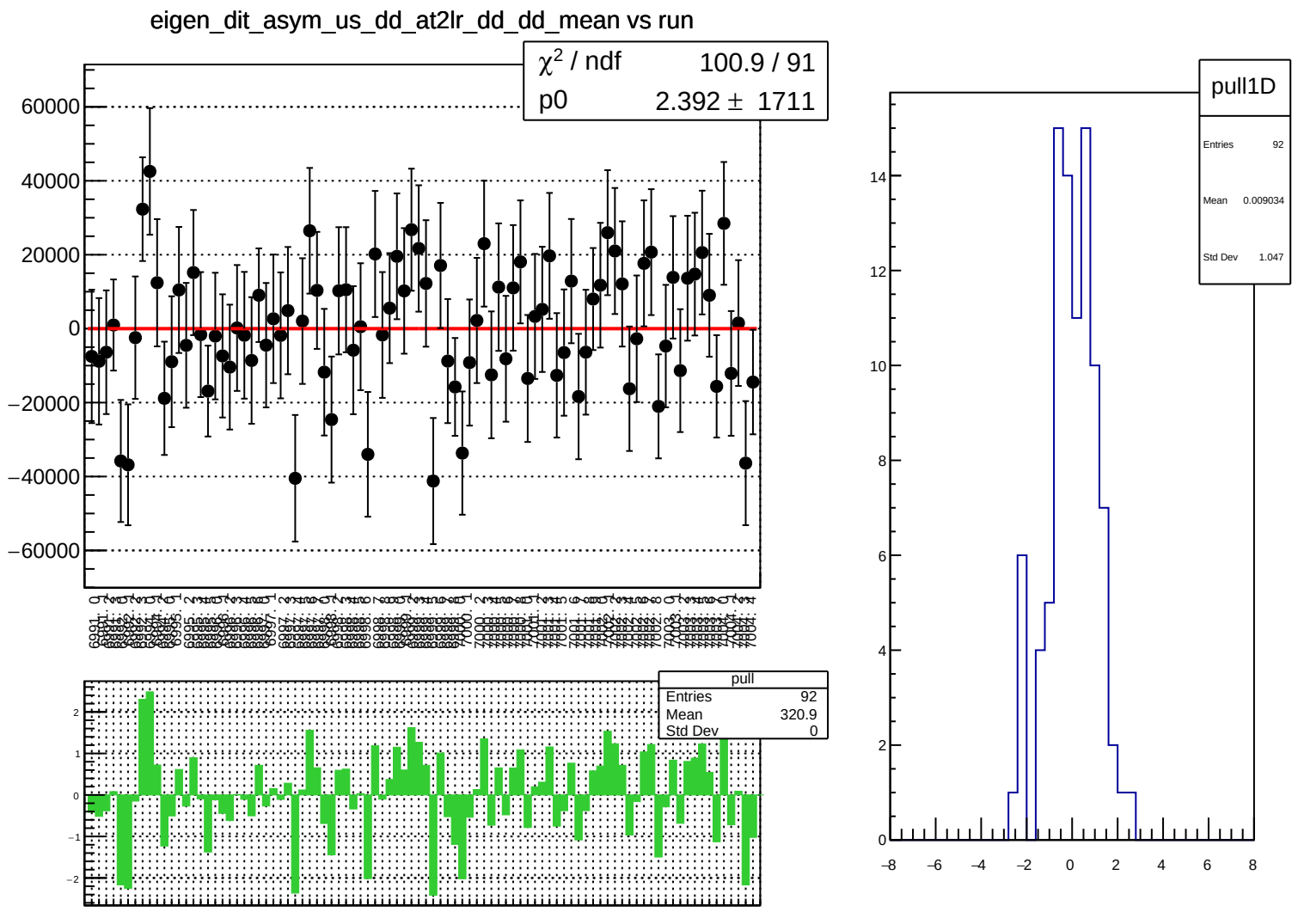

pull1D
Entries 92
Mean 0.009034
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

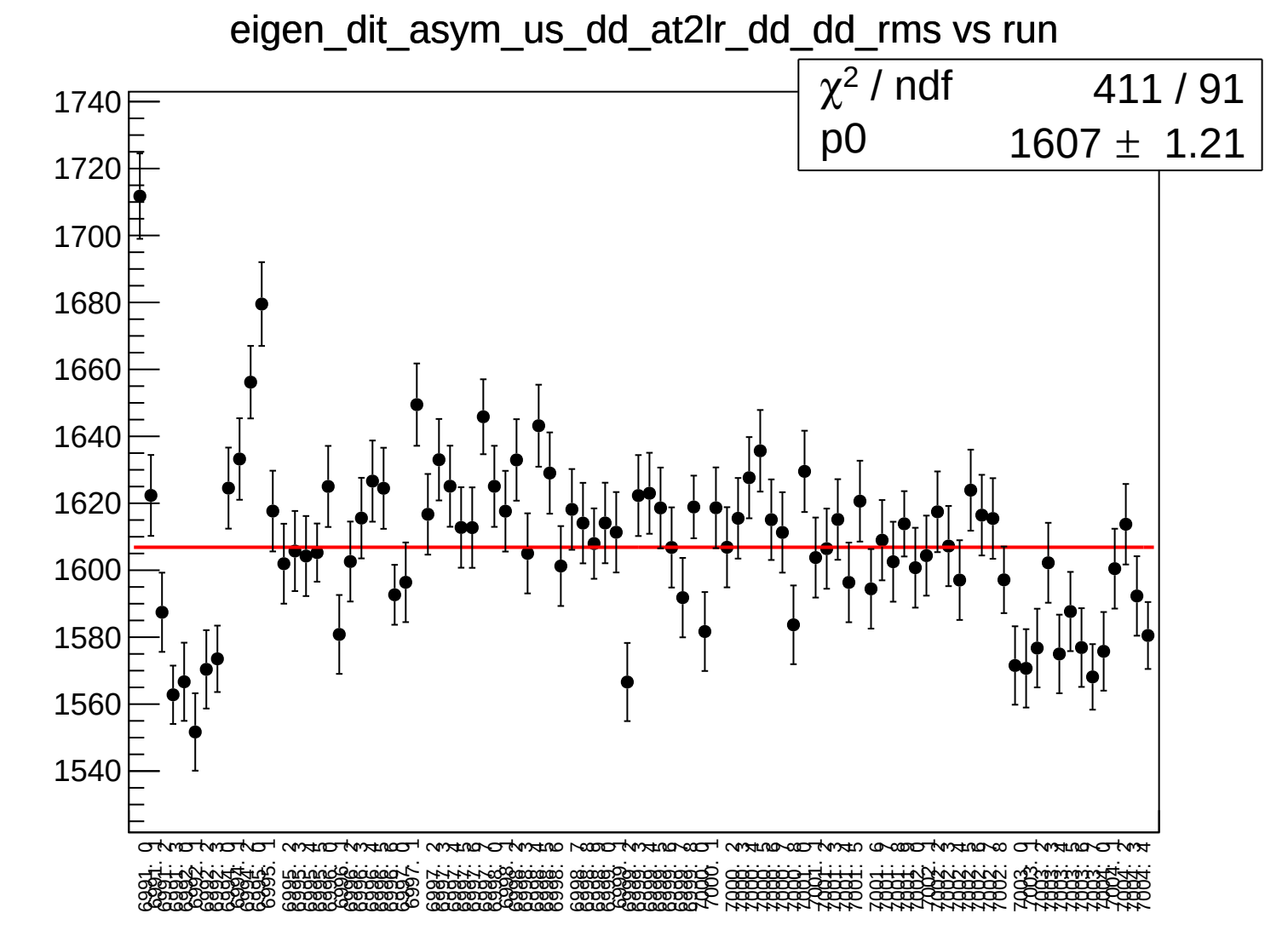

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 411 / 91
p0 1607 ± 1.21
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

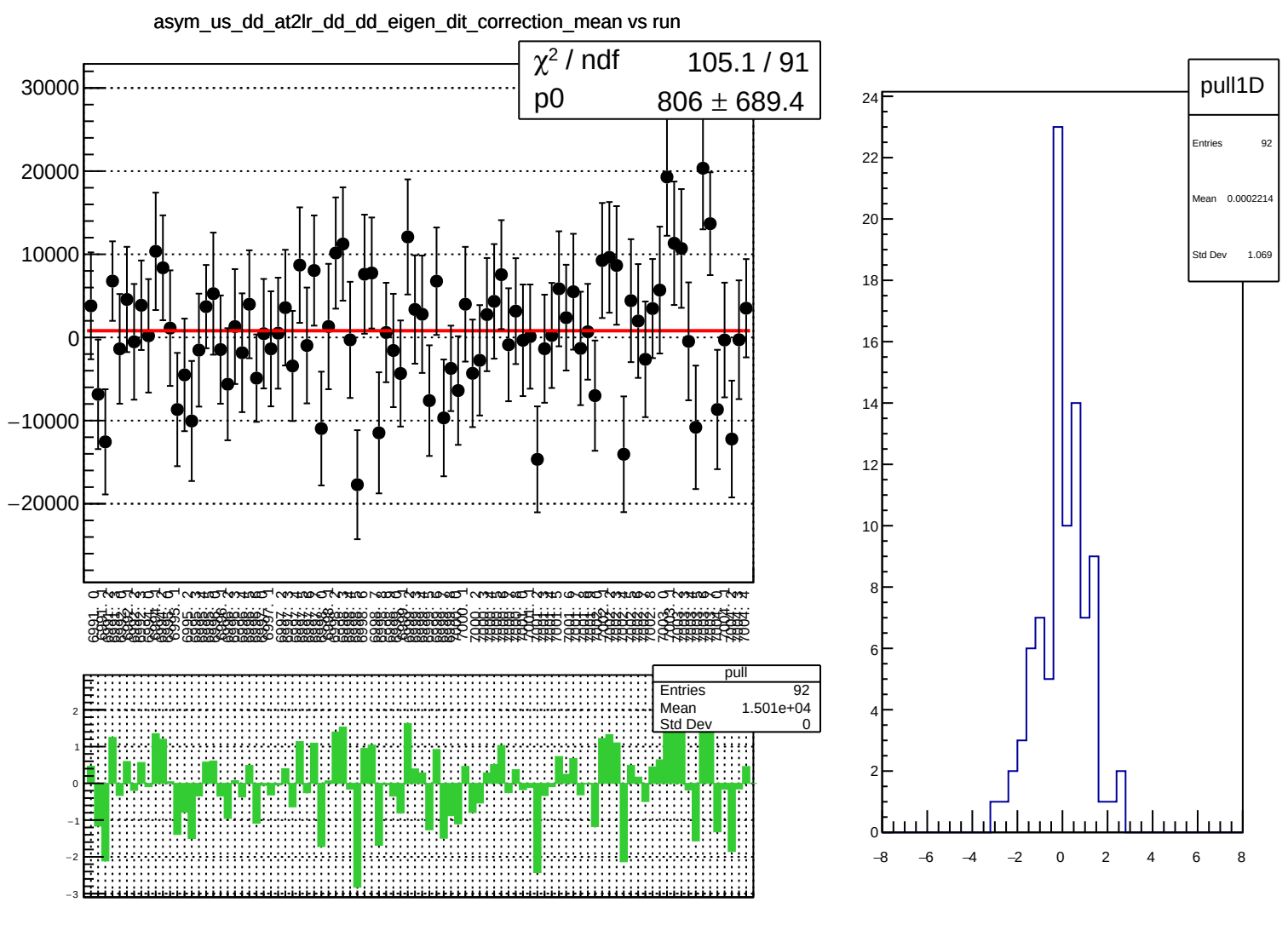

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 105.1 / 91
p0 805.9 ± 689.4
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1.502e+04
Std Dev 0
2
1
0
−1
−2
−3

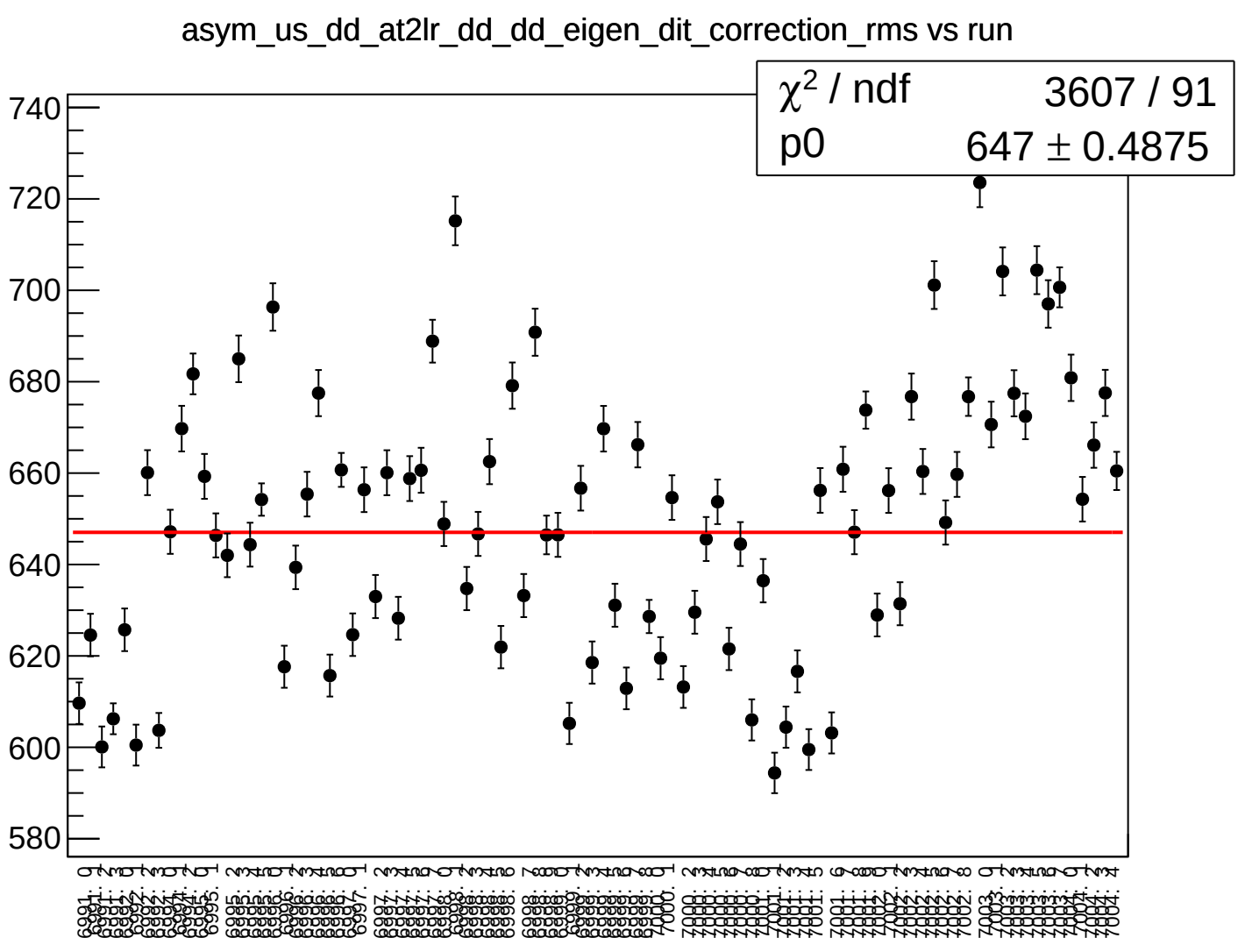

pull1D
Entries 92
Mean 0.0002213
Std Dev 1.069
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

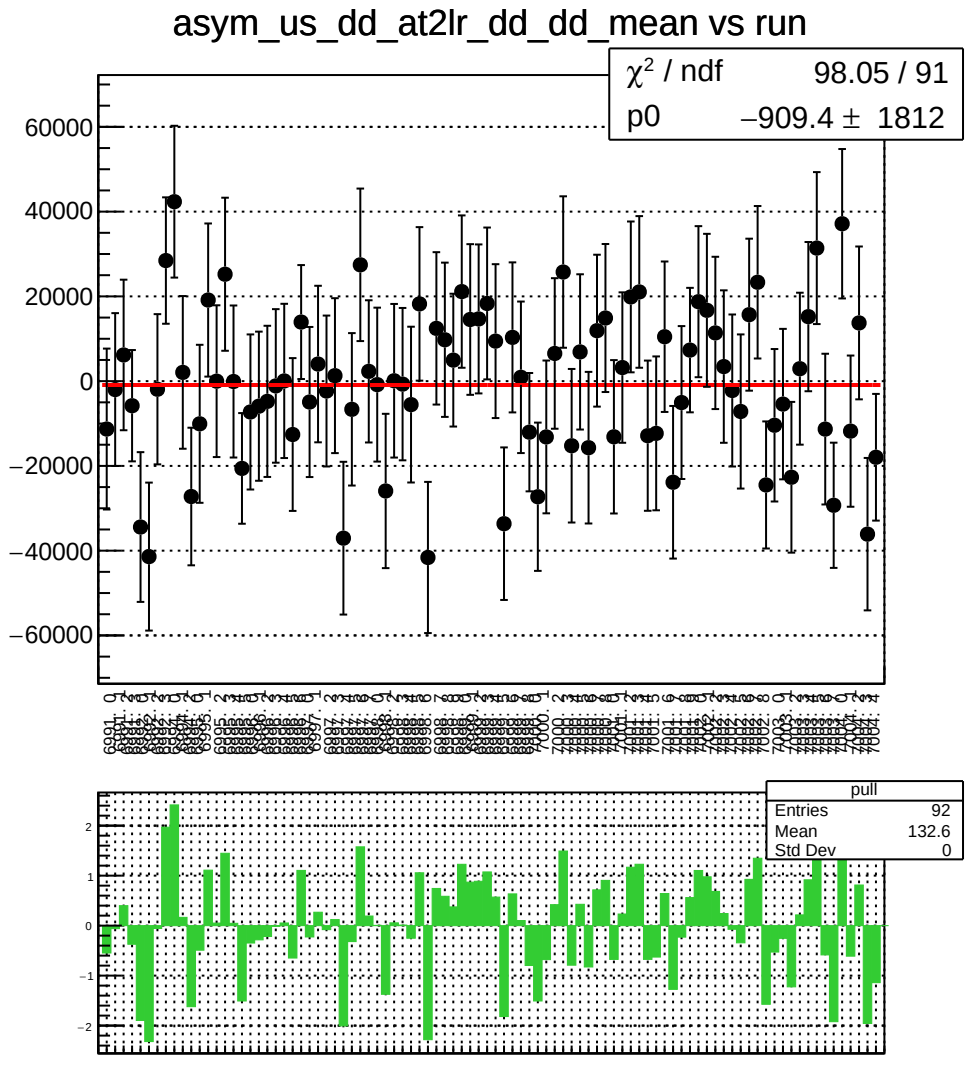

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3607 / 91
p0 647 ± 0.4875
740
720
700
680
660
640
620
600
580

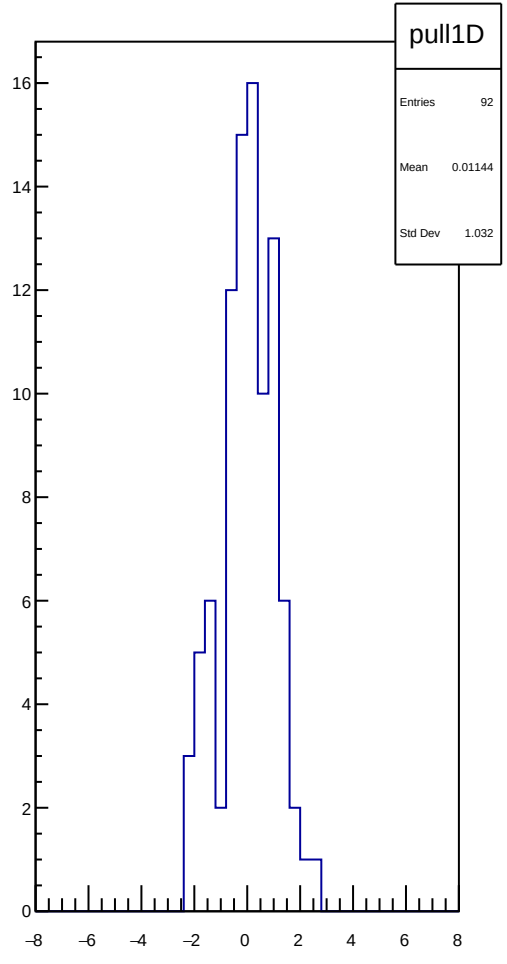

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 100.9 / 91
p0 2.392 ± 1711
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 320.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.009034
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

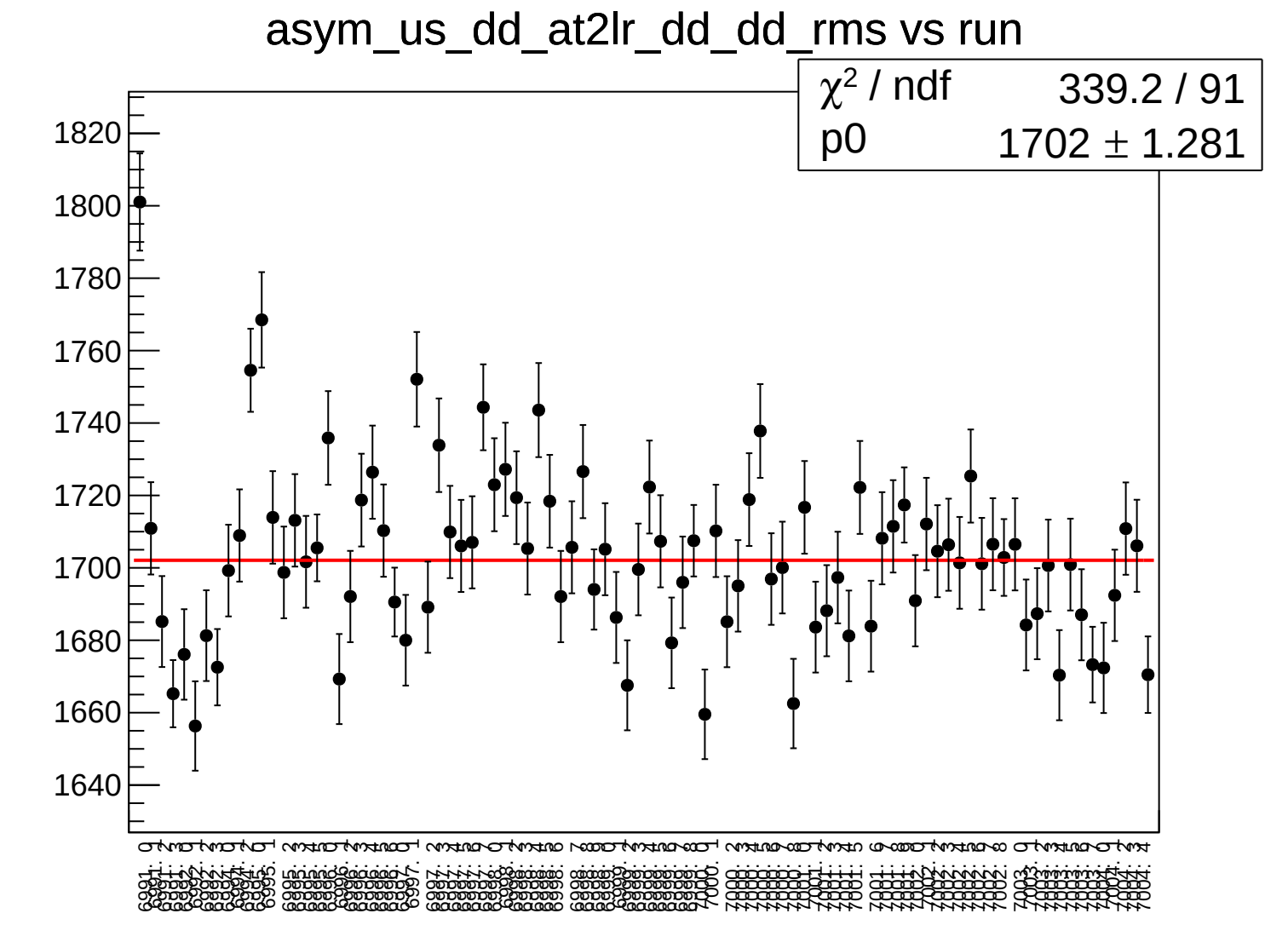

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 411 / 91
p0 1607 ± 1.21
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

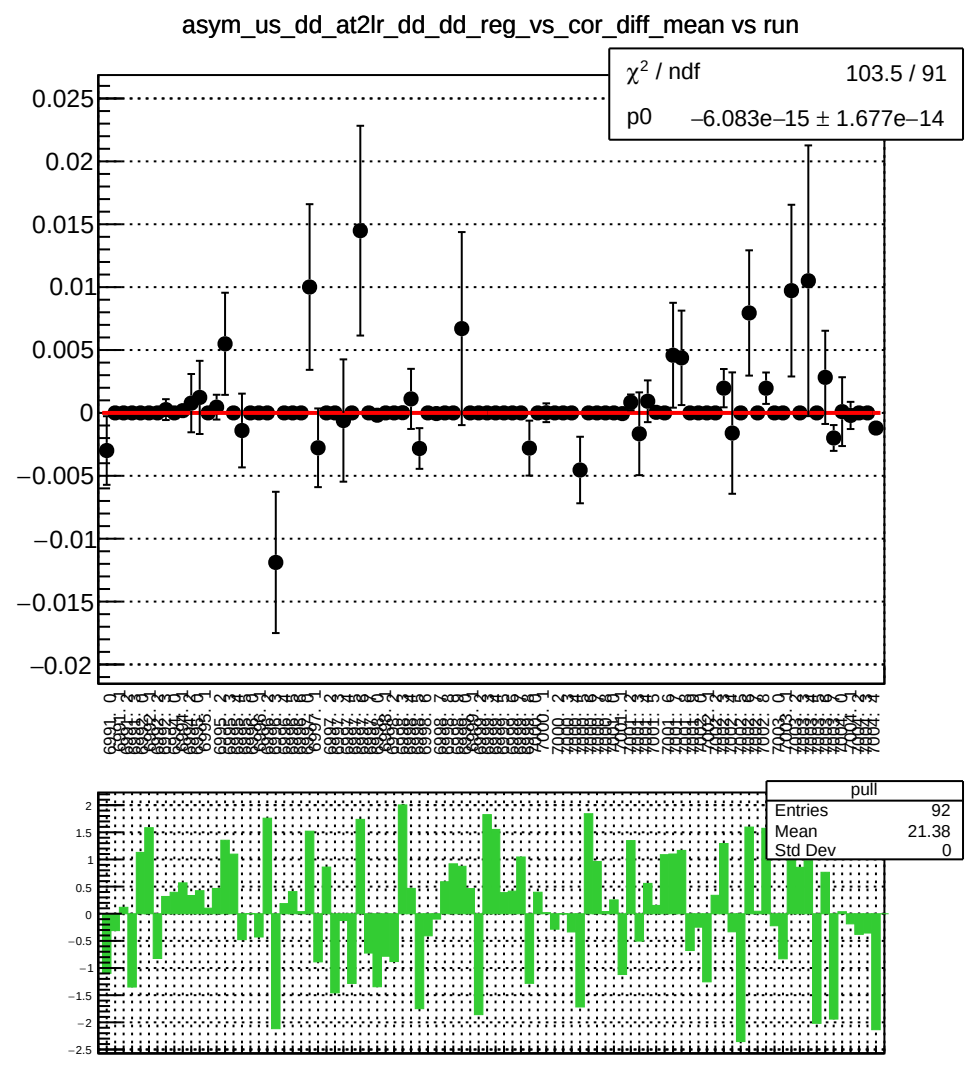

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 105.1 / 91
p0 806 ± 689.4
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 1.501e+04
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0002214
Std Dev 1.069
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

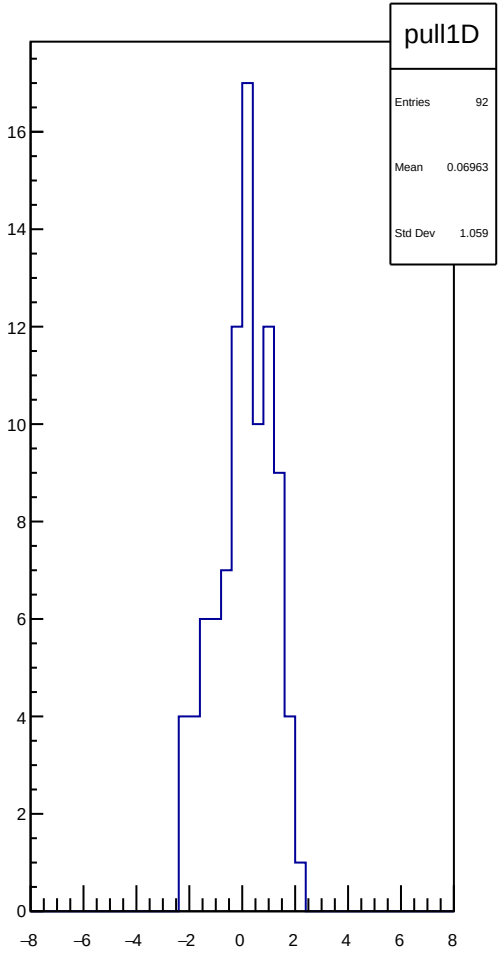

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3607 / 91
p0 647 ± 0.4875
740
720
700
680
660
640
620
600
580

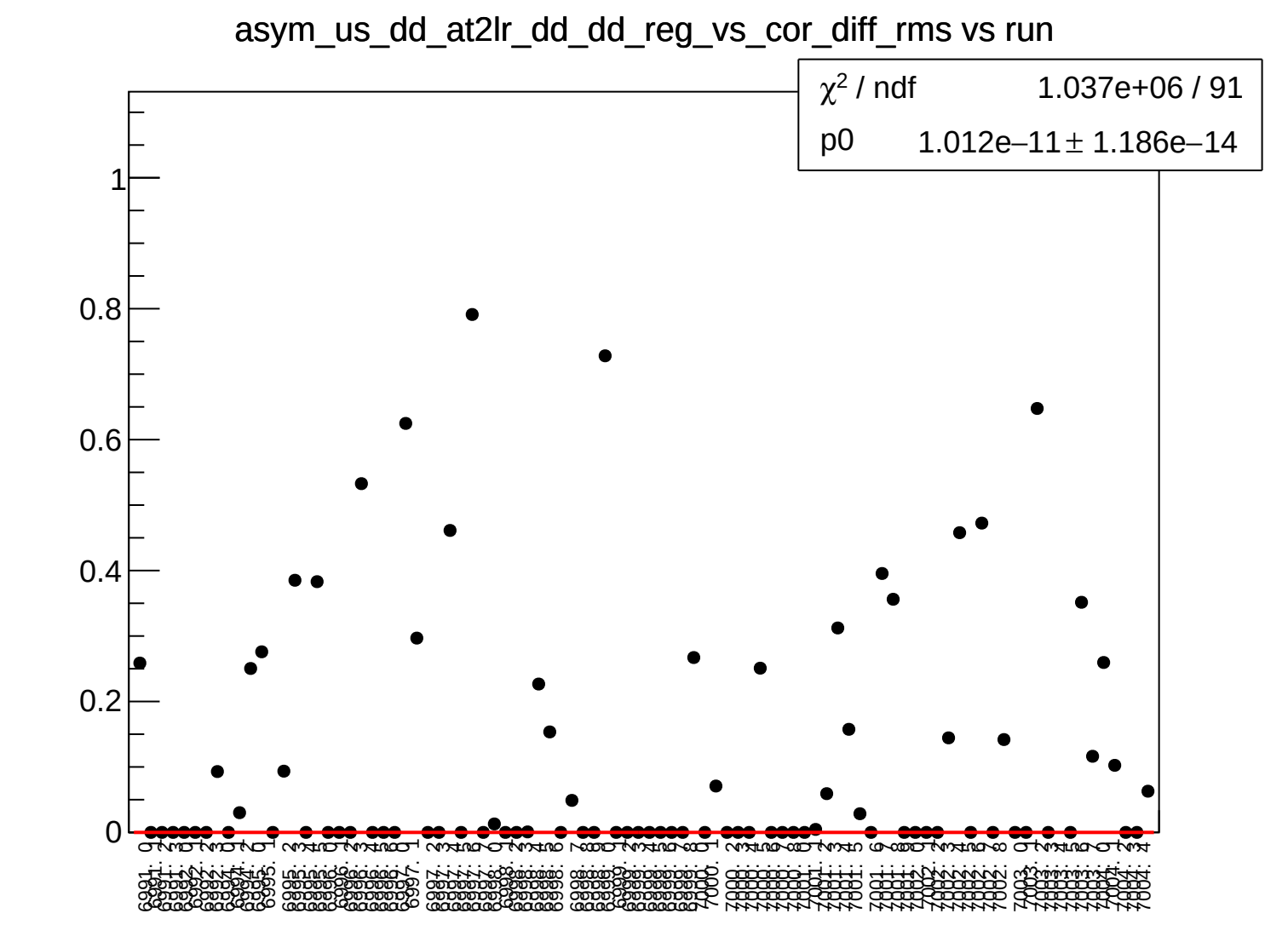

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.05 / 91
p0 −909.4 ± 1812
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 132.6
Std Dev 0
2
1
0
−1
−2

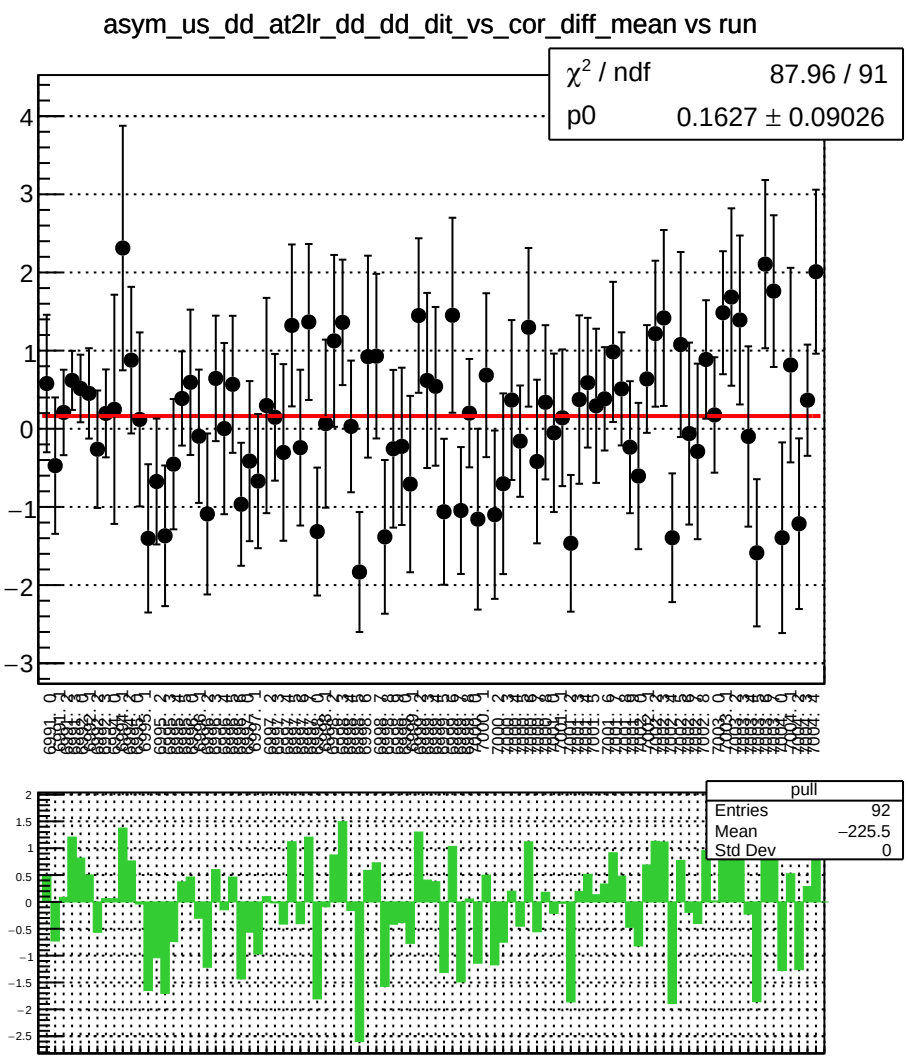

pull1D
Entries 92
Mean 0.01144
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

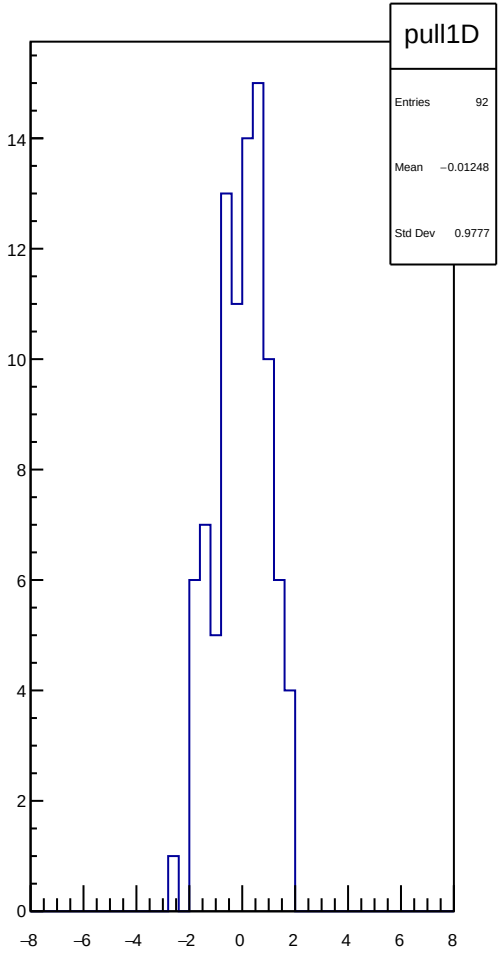

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 339.2 / 91
p0 1702 ± 1.281
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

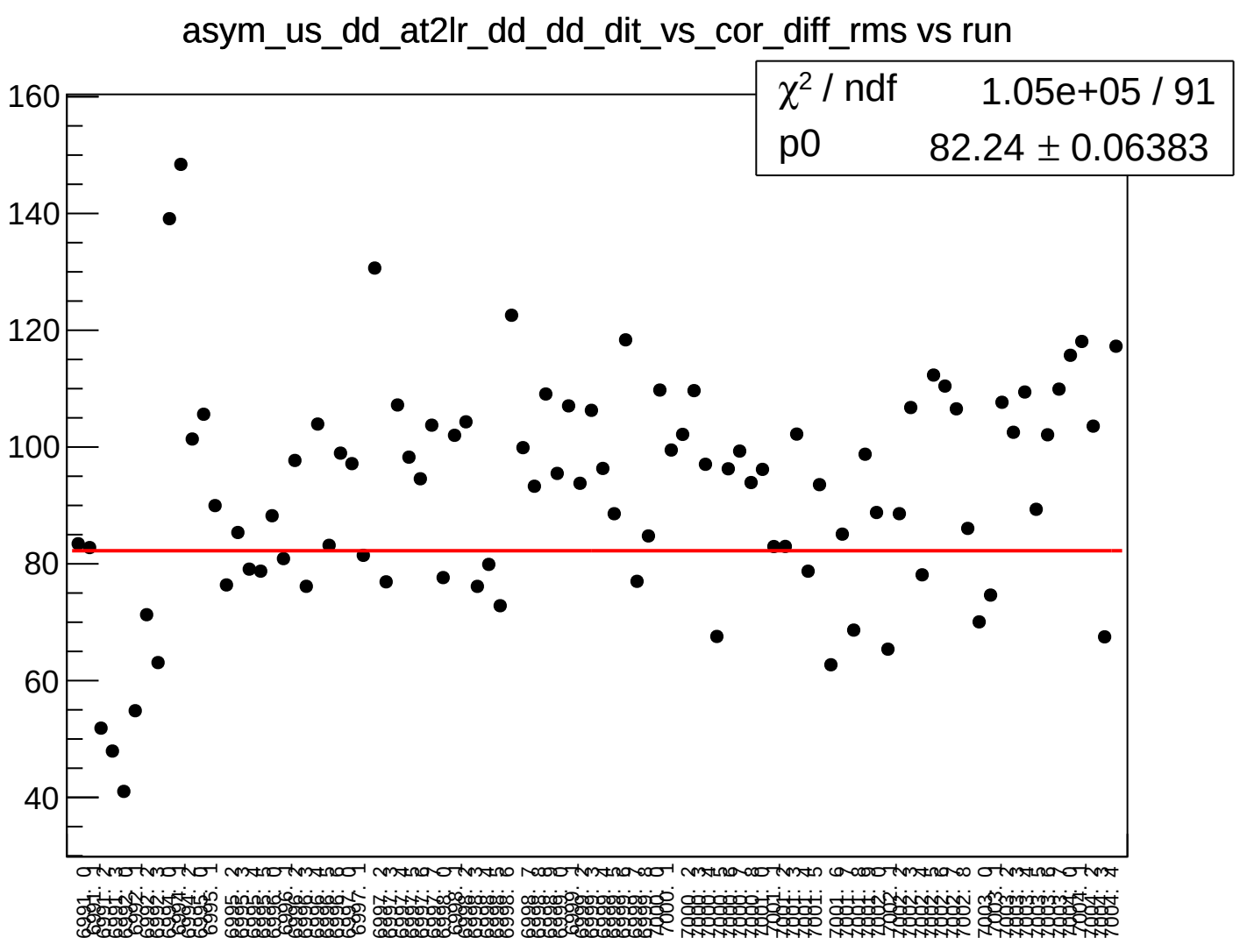

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 91
p0 −6.083e−15 ± 1.677e−14
pull
Entries 92
Mean 21.38
Std Dev 0

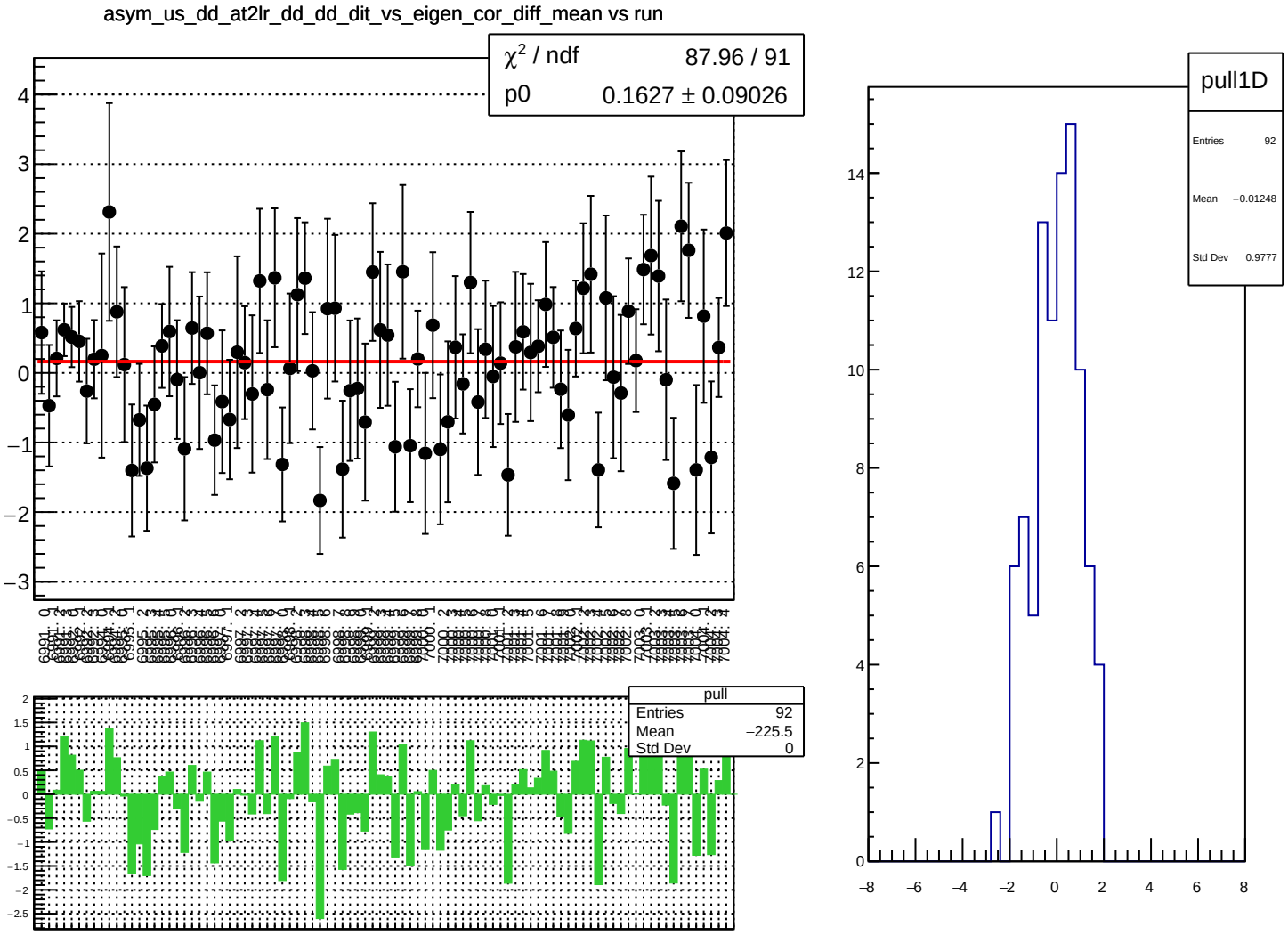

pull1D
Entries 92
Mean 0.06963
Std Dev 1.059

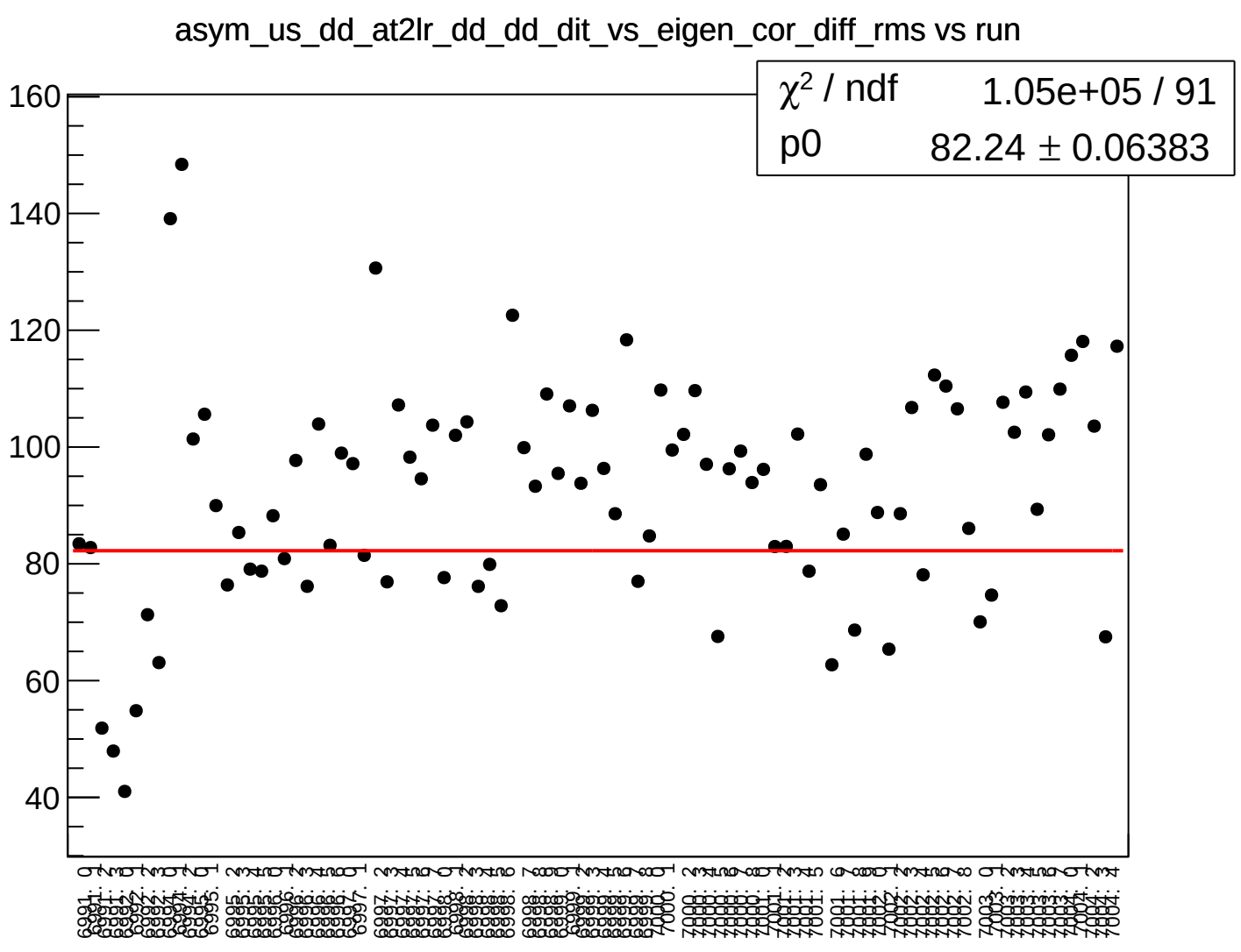

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.037e+06 / 91
p0 1.012e−11 ± 1.186e−14
1
0.8
0.6
0.4
0.2
0

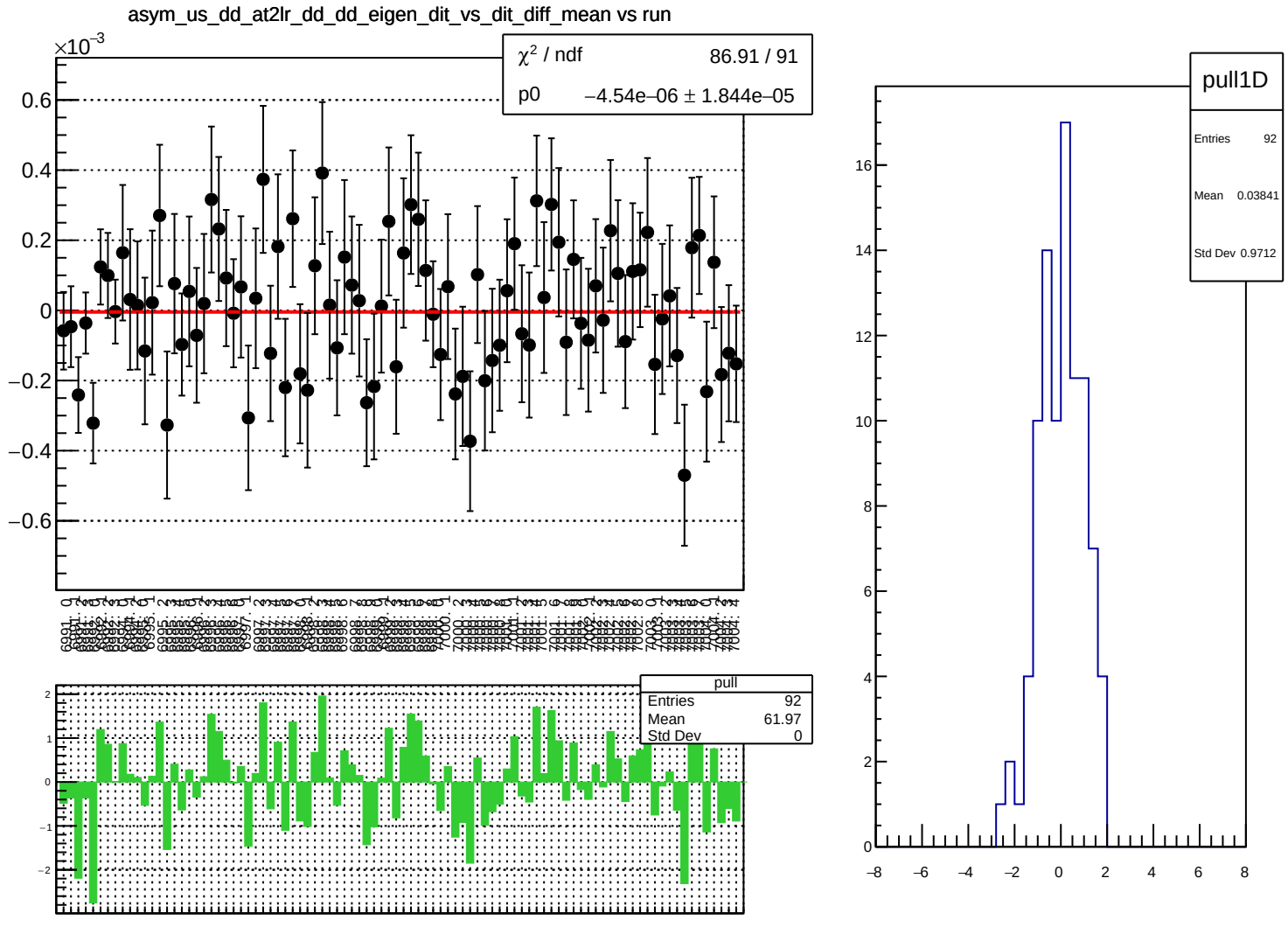

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.96 / 91
p0 0.1627 ± 0.09026
pull
Entries 92
Mean −225.5
Std Dev 0

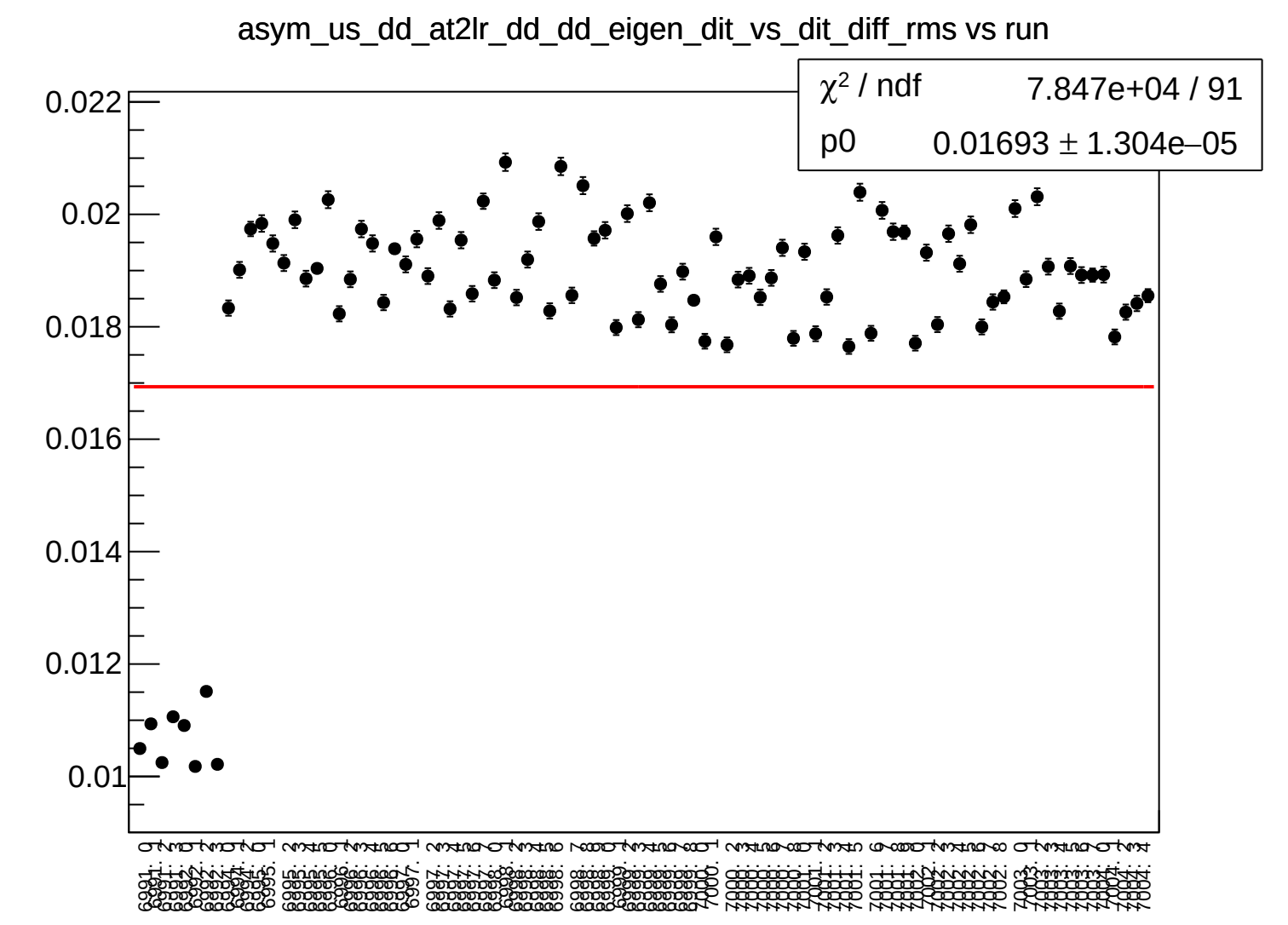

pull1D
Entries 92
Mean −0.01248
Std Dev 0.9777

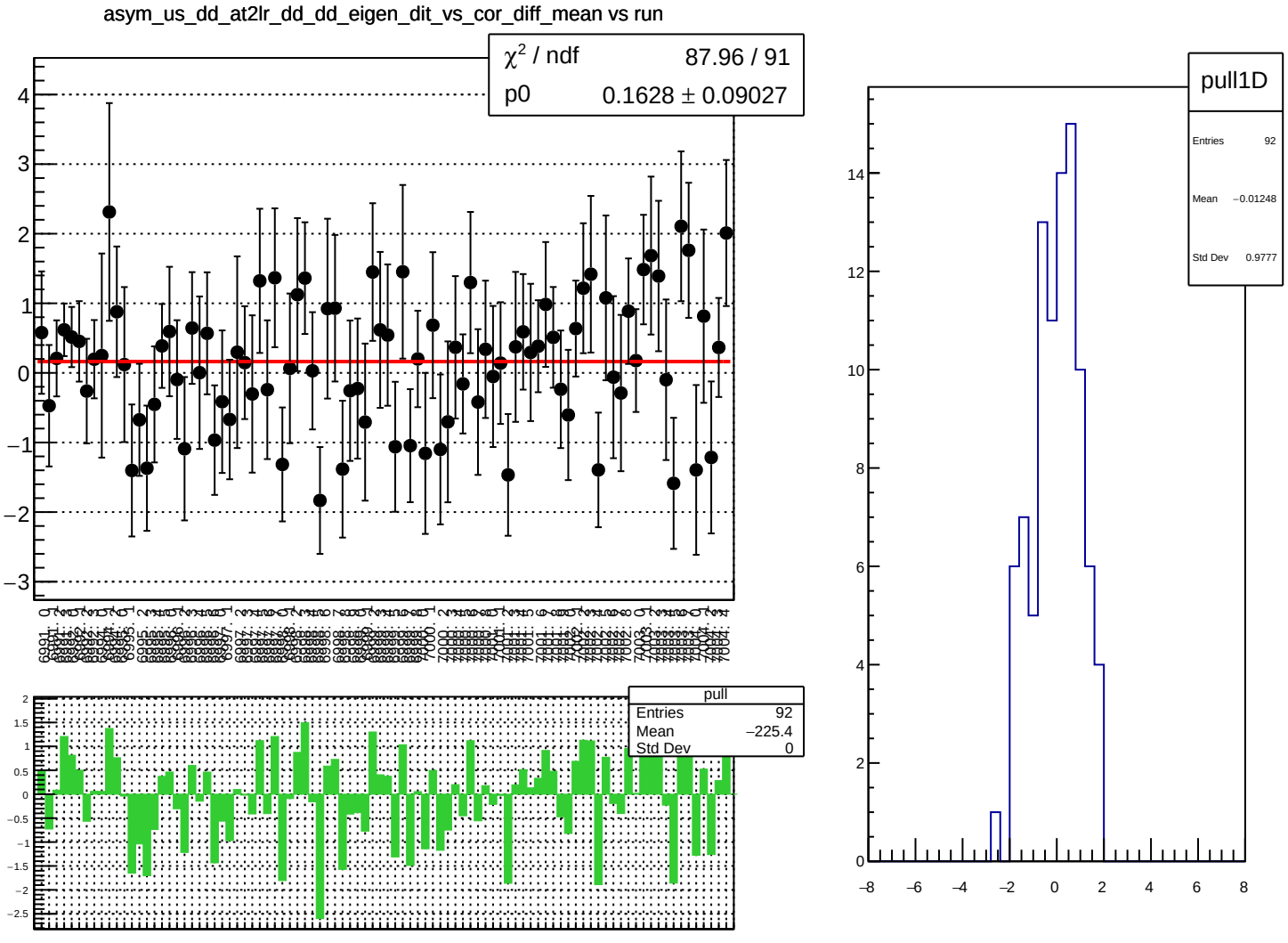

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.05e+05 / 91
p0 82.24 ± 0.06383
160
140
120
100
80
60
40

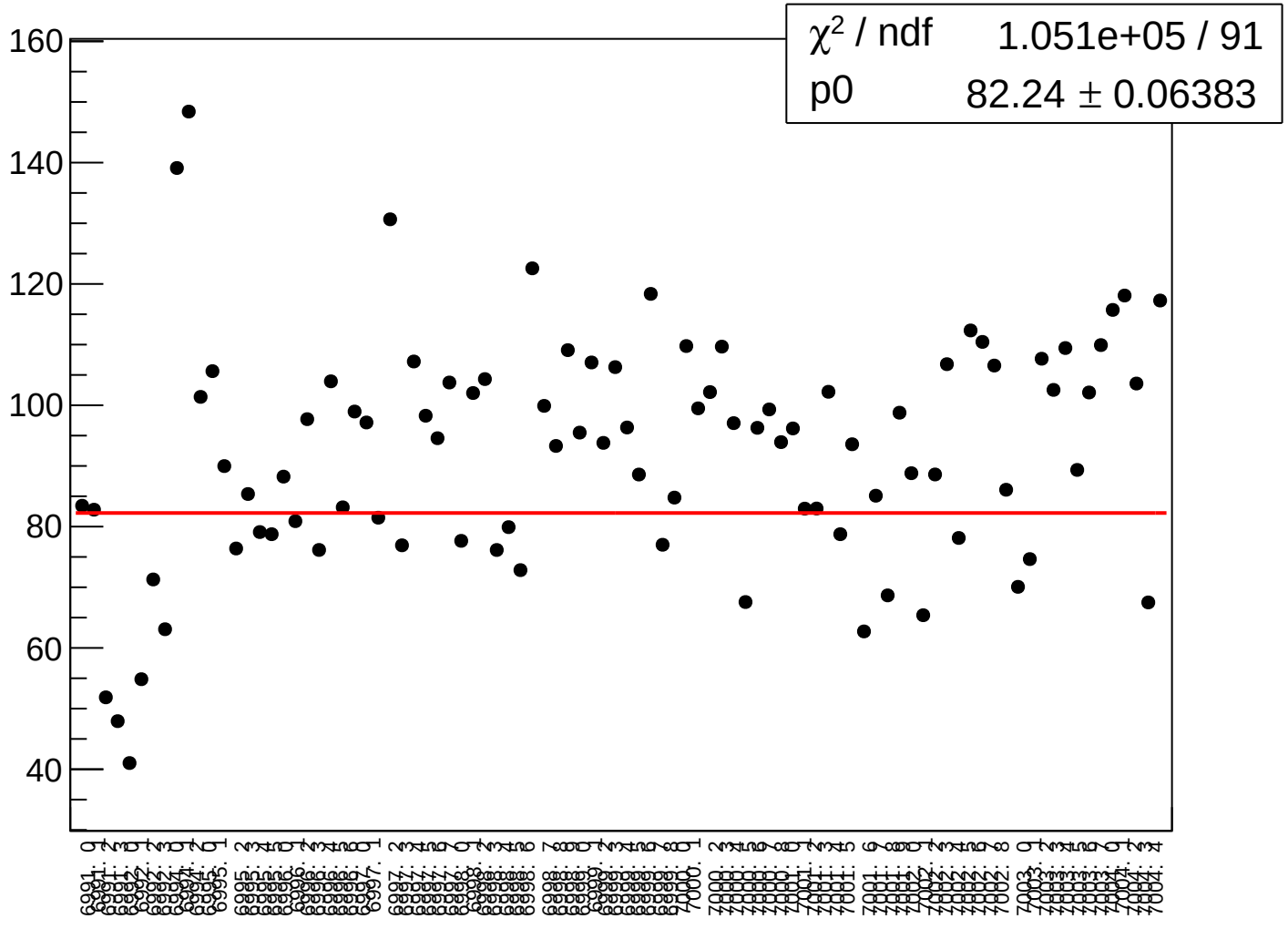

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.96 / 91
p0 0.1627 ± 0.09026
pull
Entries 92
Mean −225.5
Std Dev 0
pull1D
Entries 92
Mean −0.01248
Std Dev 0.9777

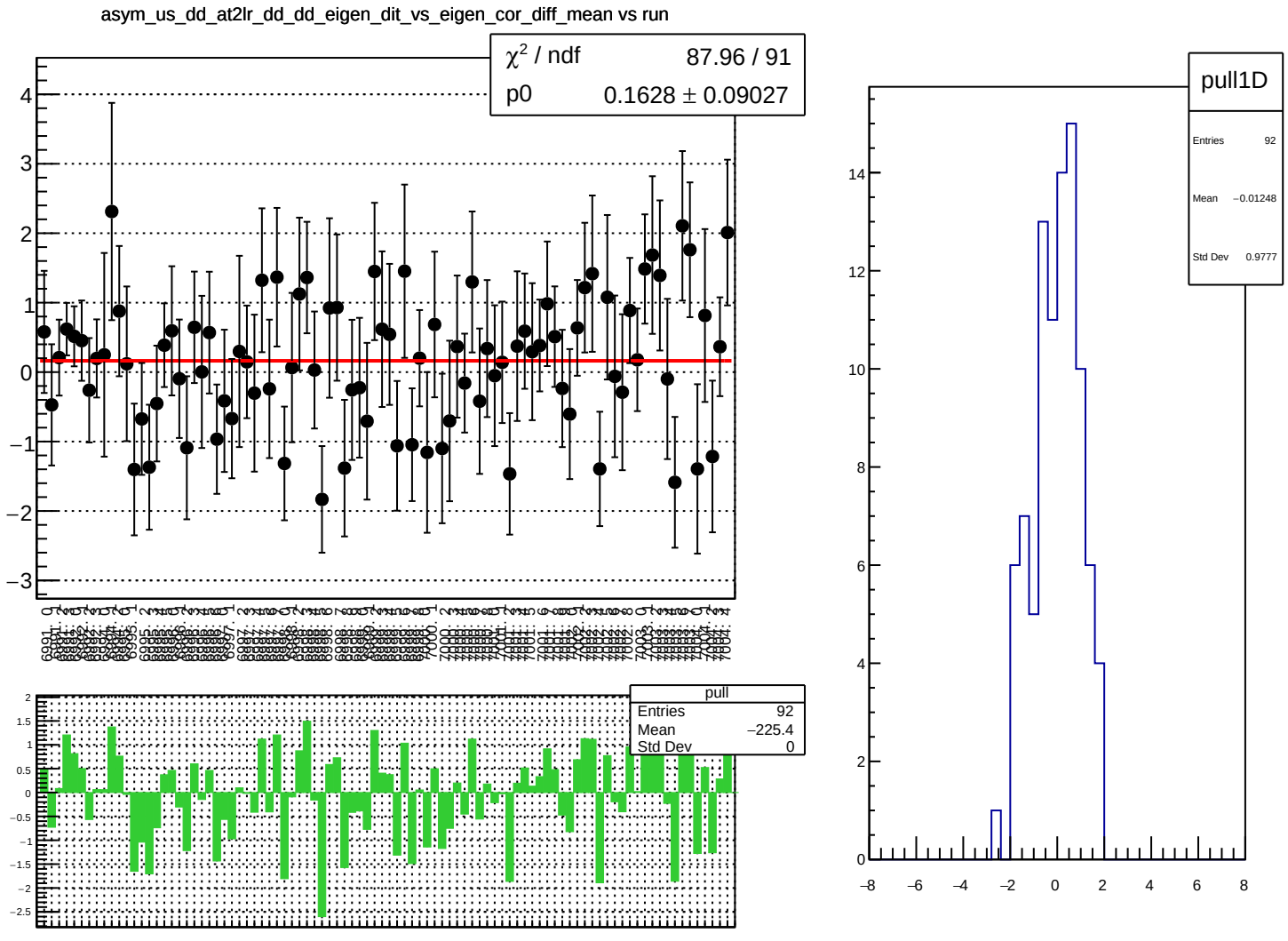

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.05e+05 / 91
p0 82.24 ± 0.06383
160
140
120
100
80
60
40

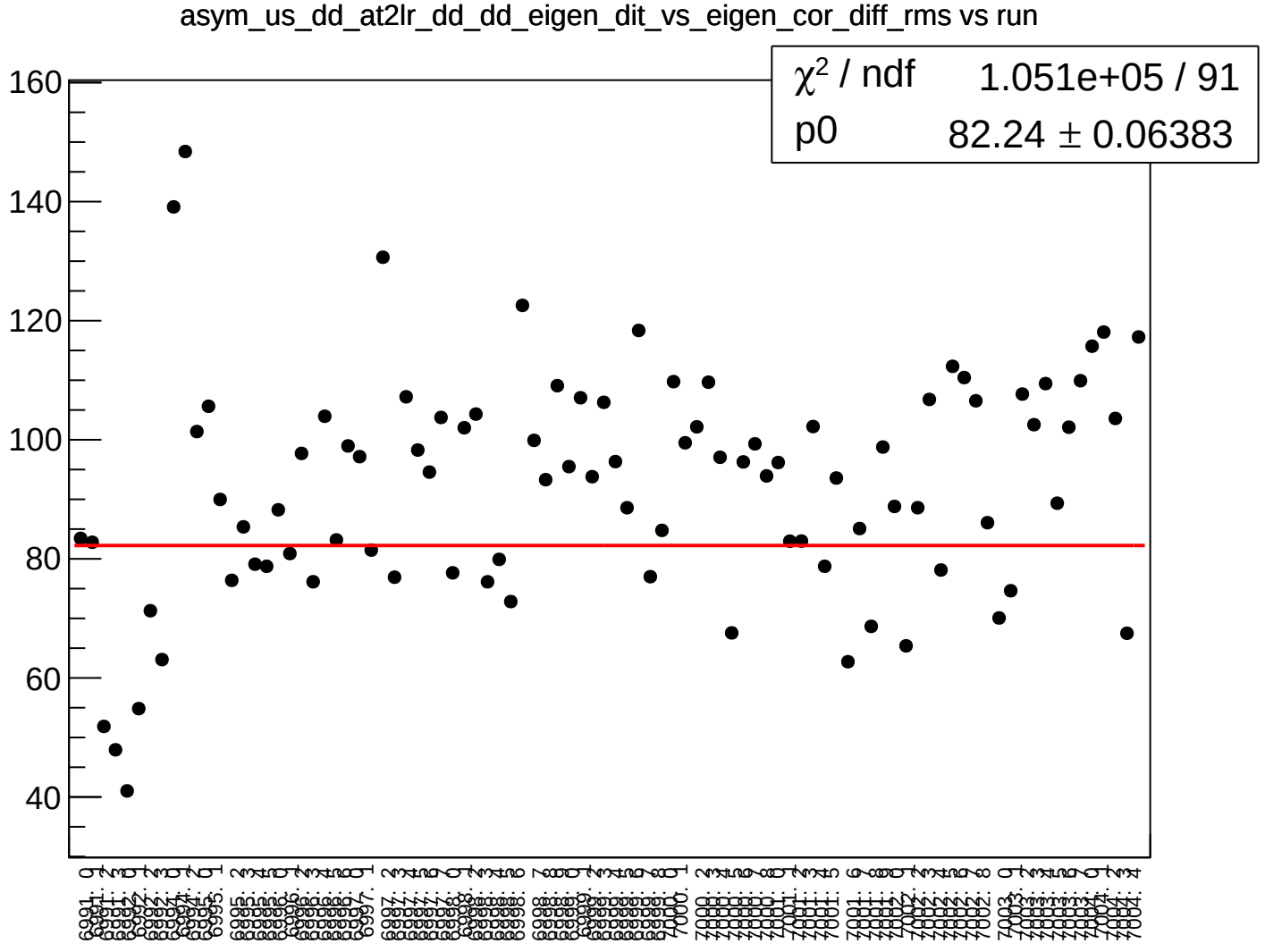

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.91 / 91
p0 −4.54e−06 ± 1.844e−05
pull
Entries 92
Mean 61.97
Std Dev 0
pull1D
Entries 92
Mean 0.03841
Std Dev 0.9712

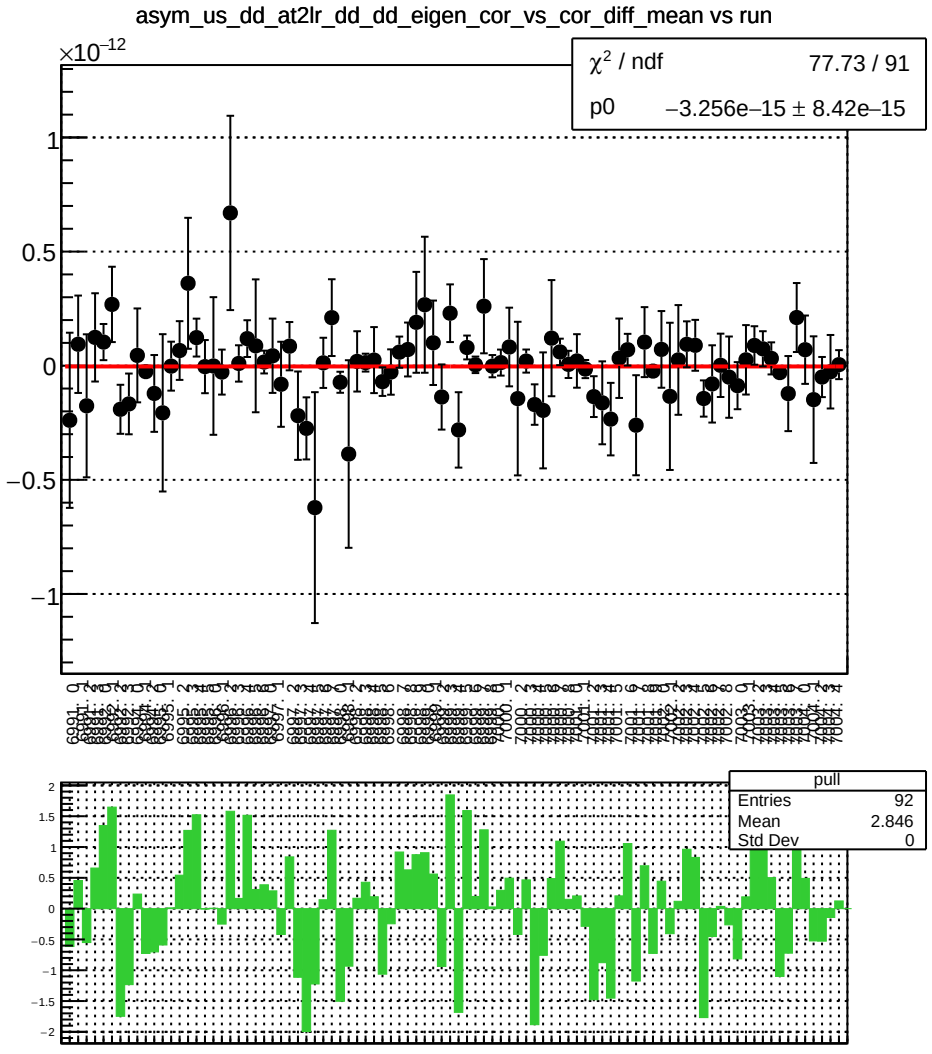

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.847e+04 / 91
p0 0.01693 ± 1.304e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

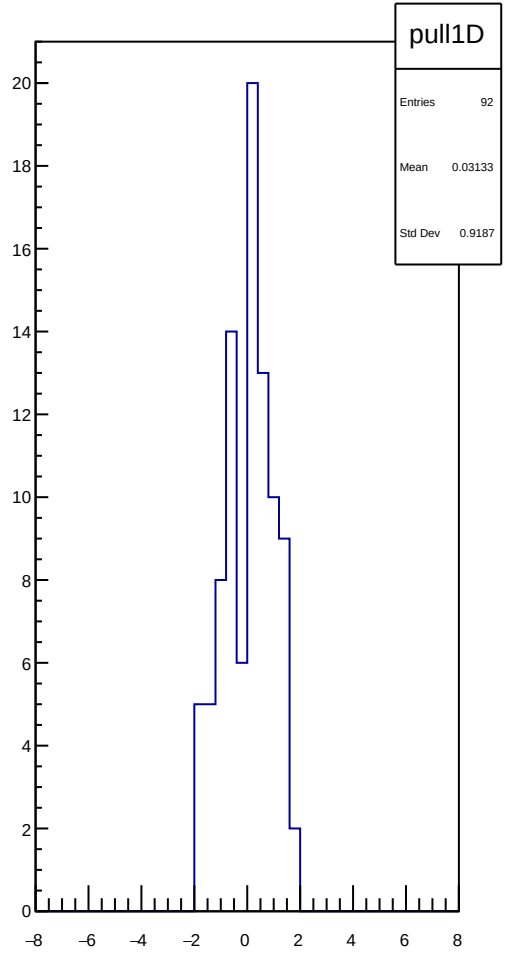

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.96 / 91
p0 0.1628 ± 0.09027
pull
Entries 92
Mean −225.4
Std Dev 0
pull1D
Entries 92
Mean −0.01248
Std Dev 0.9777

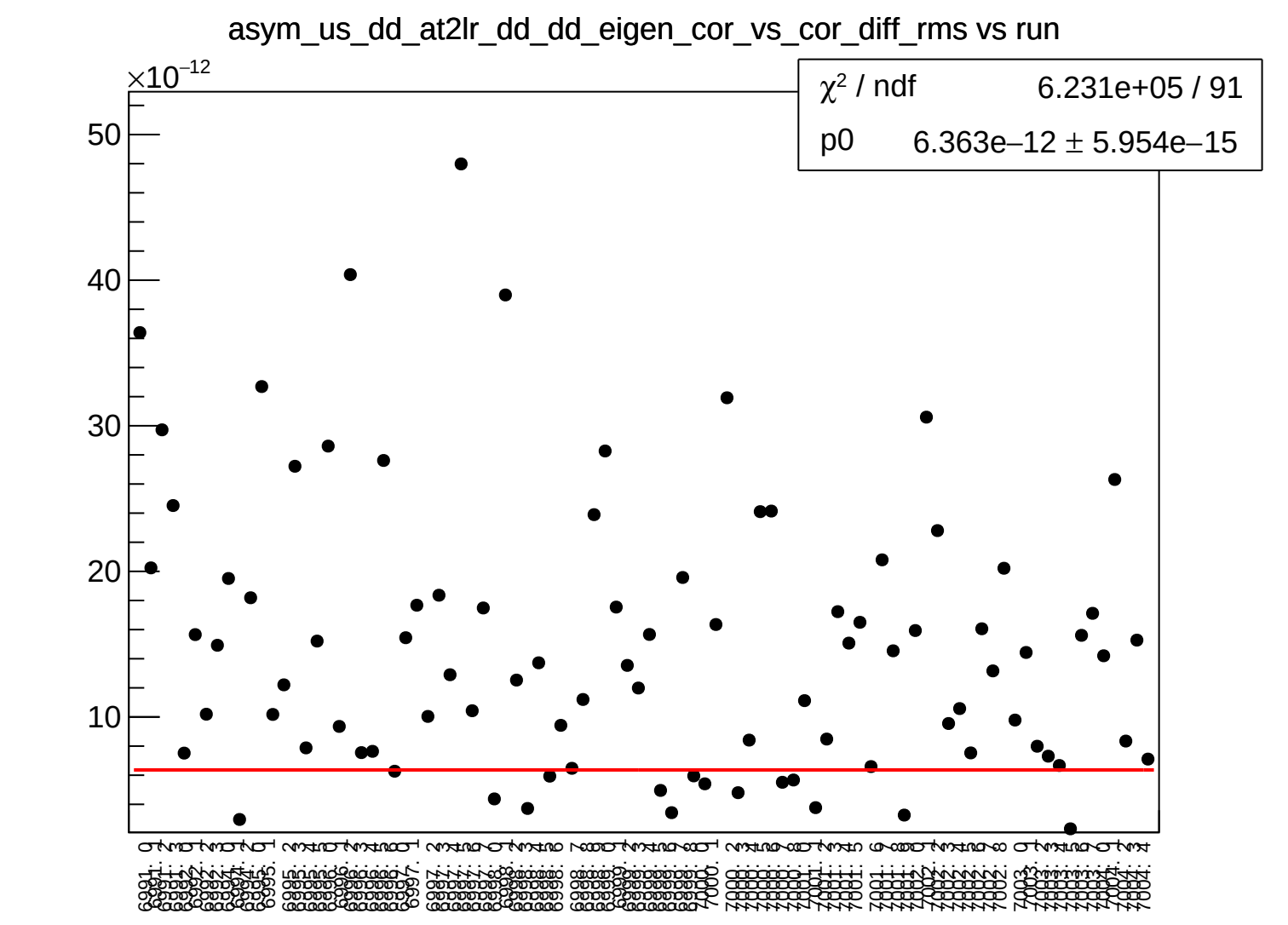

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.051e+05 / 91
p0 82.24 ± 0.06383
160
140
120
100
80
60
40

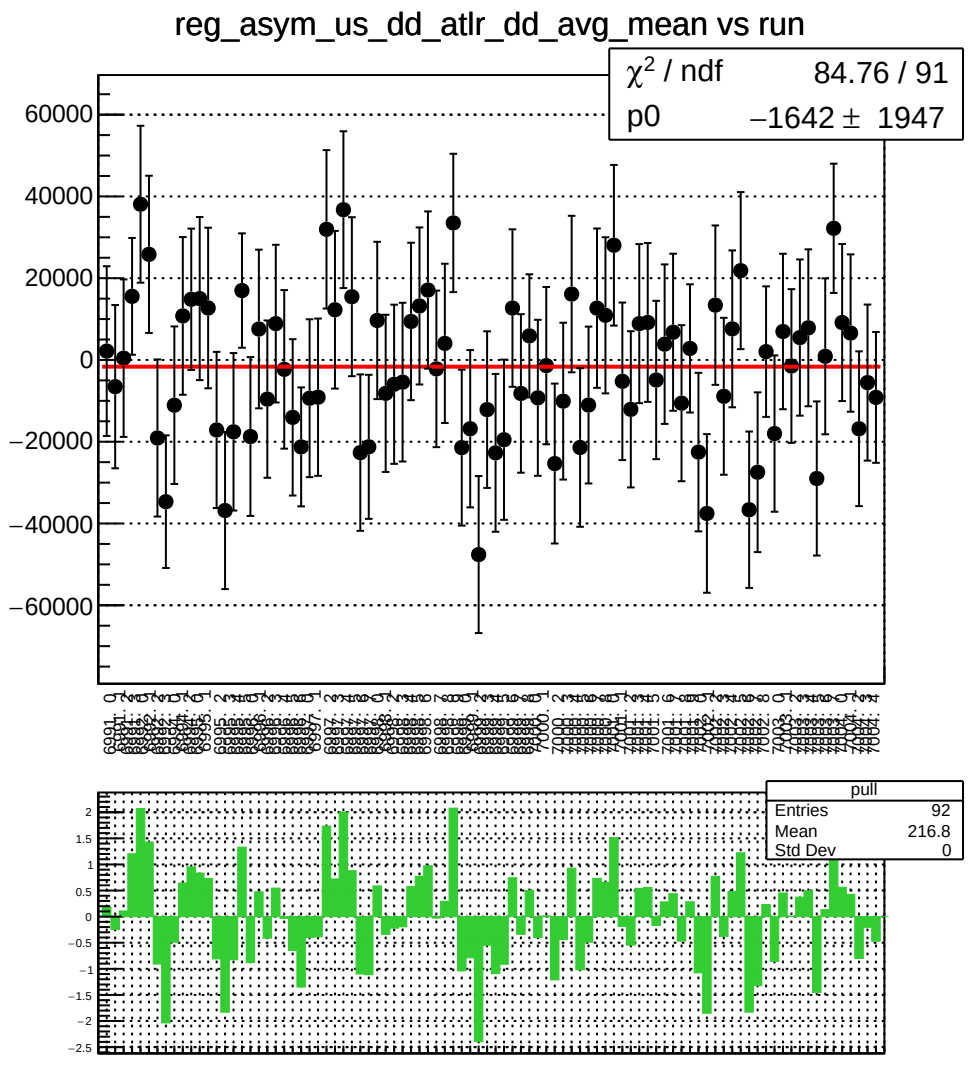

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.96 / 91
p0 0.1628 ± 0.09027
pull
Entries 92
Mean −225.4
Std Dev 0
pull1D
Entries 92
Mean −0.01248
Std Dev 0.9777

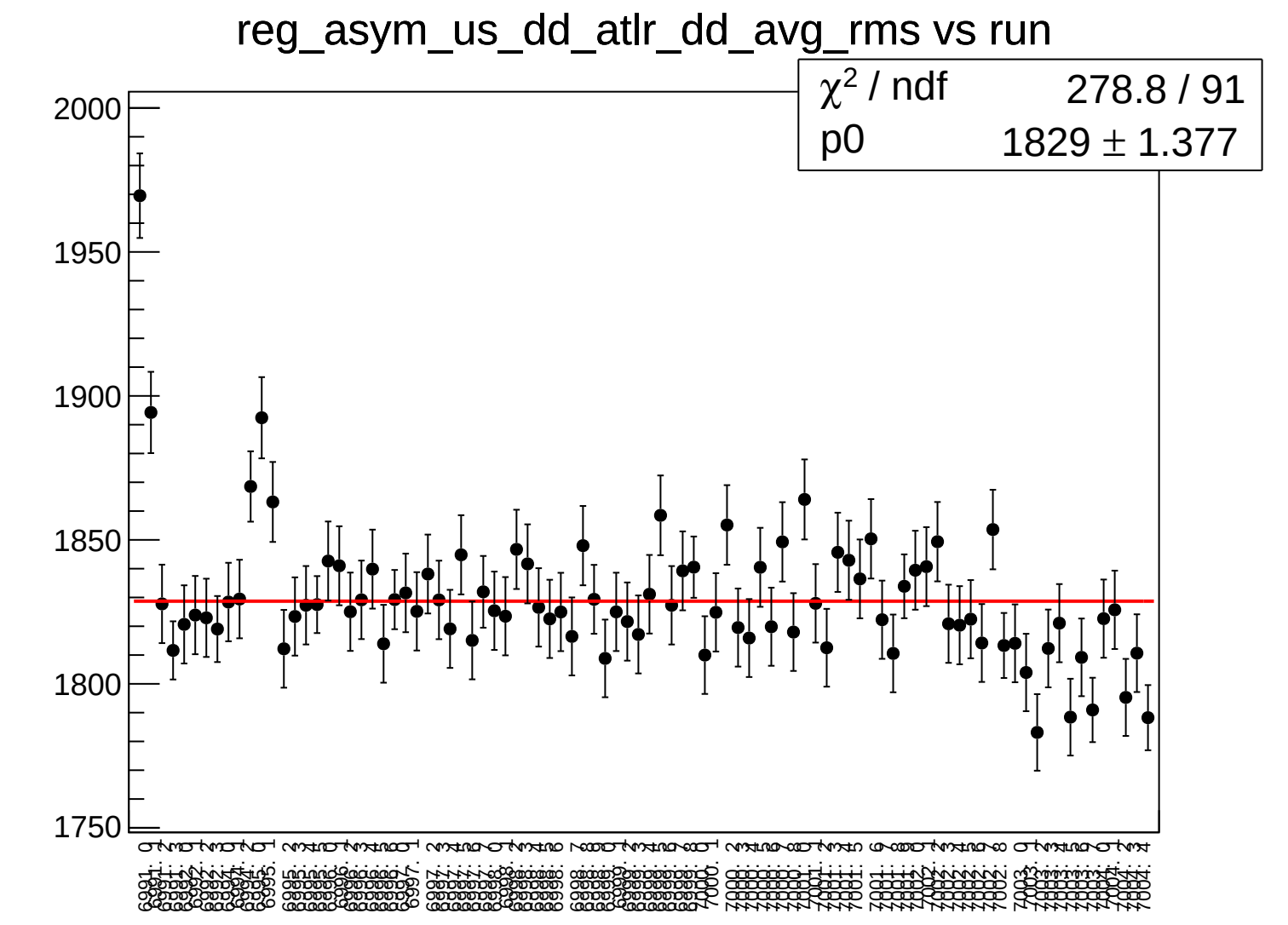

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.051e+05 / 91
p0 82.24 ± 0.06383
160
140
120
100
80
60
40

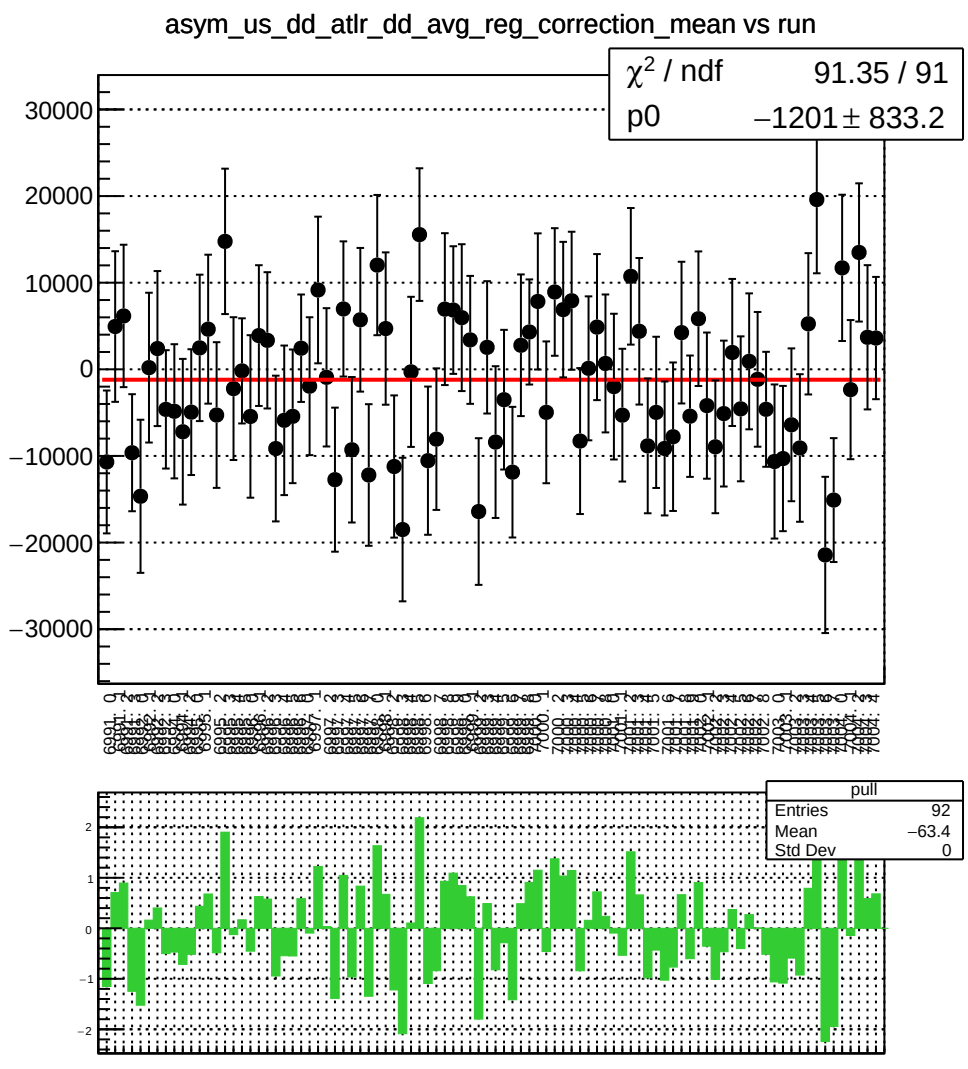

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.73 / 91
p0 −3.256e−15 ± 8.42e−15
pull
Entries 92
Mean 2.846
Std Dev 0

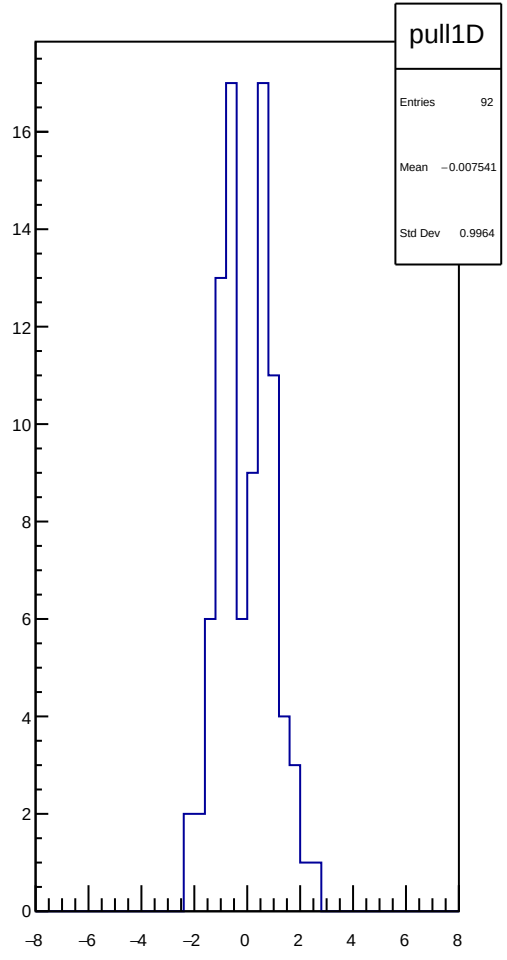

pull1D
Entries 92
Mean 0.03133
Std Dev 0.9187

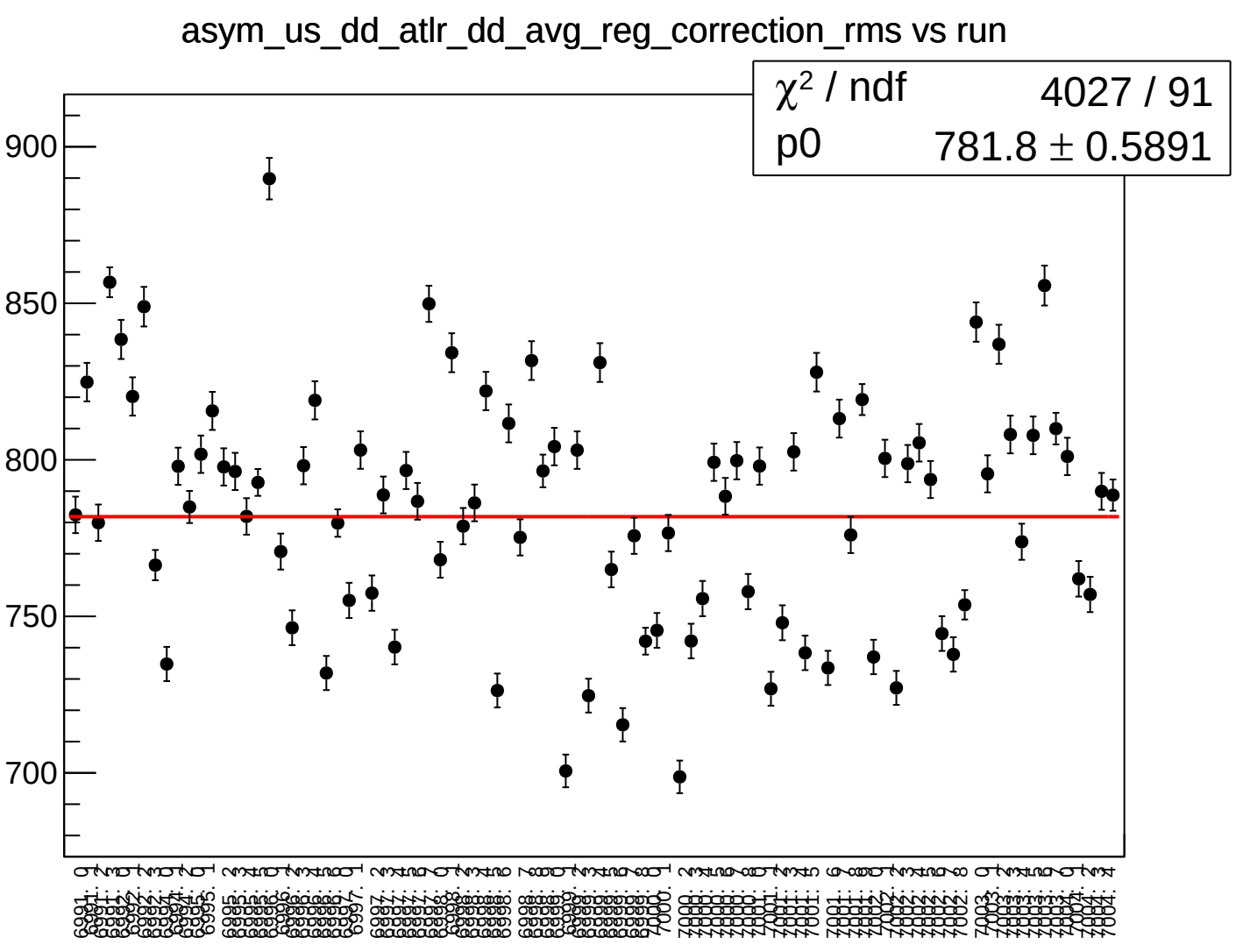

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.231e+05 / 91
p0 6.363e−12 ± 5.954e−15
50
40
30
20
10

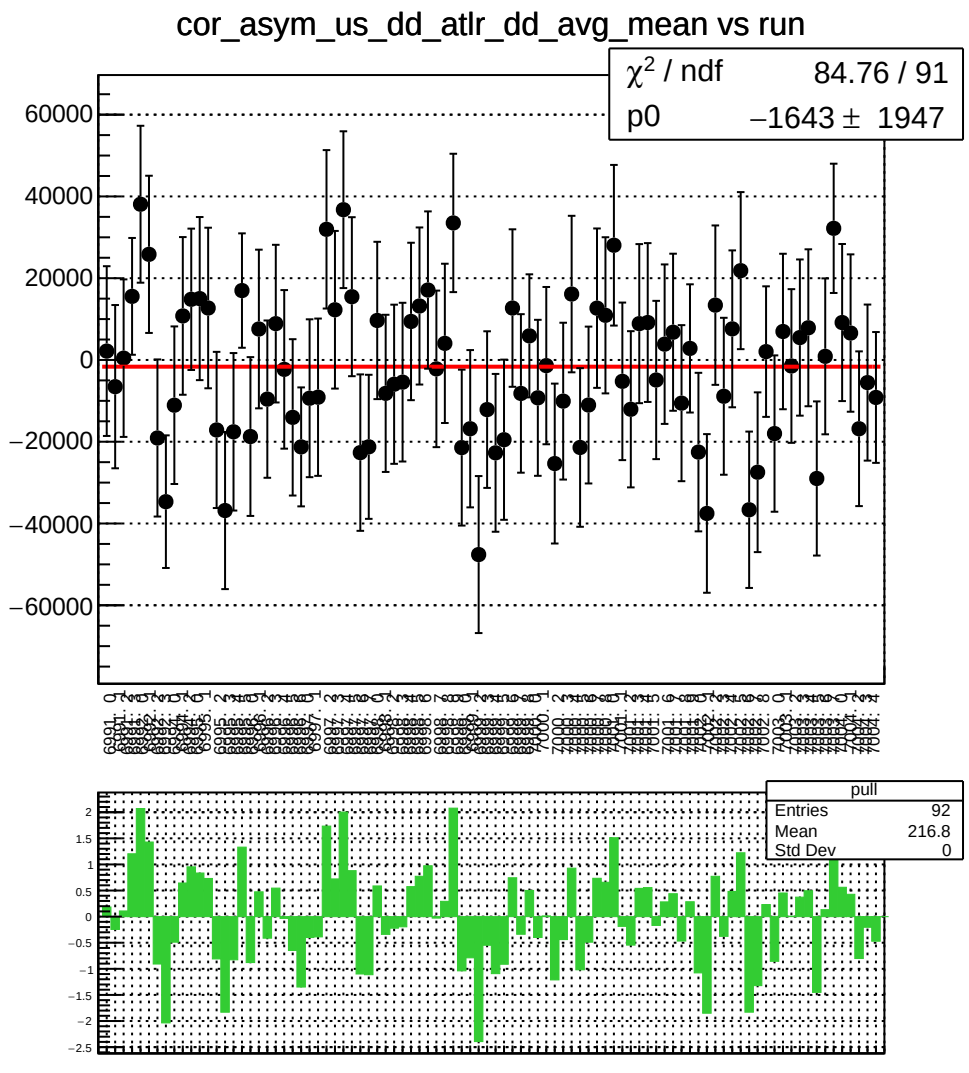

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.76 / 91
p0 −1642 ± 1947
pull
Entries 92
Mean 216.8
Std Dev 0
pull1D
Entries 92
Mean −0.0098
Std Dev 0.9598

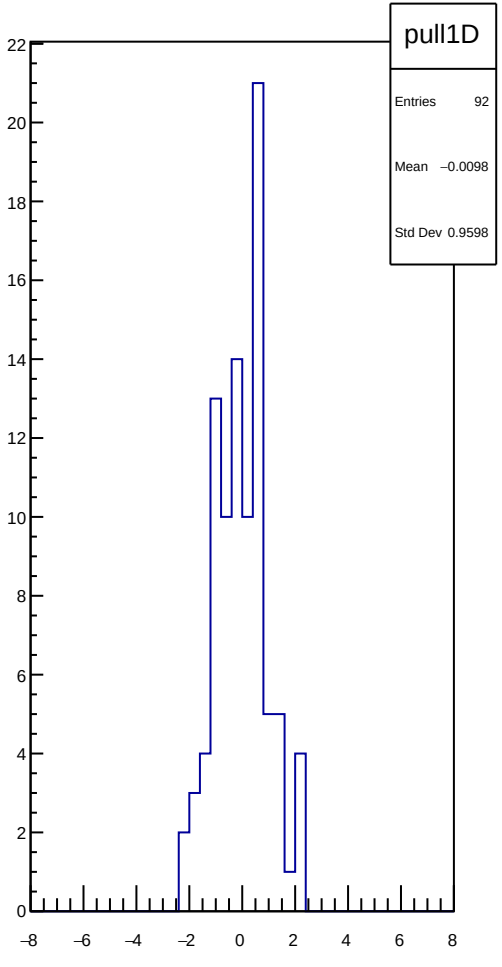

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 278.8 / 91
p0 1829 ± 1.377
2000
1950
1900
1850
1800
1750

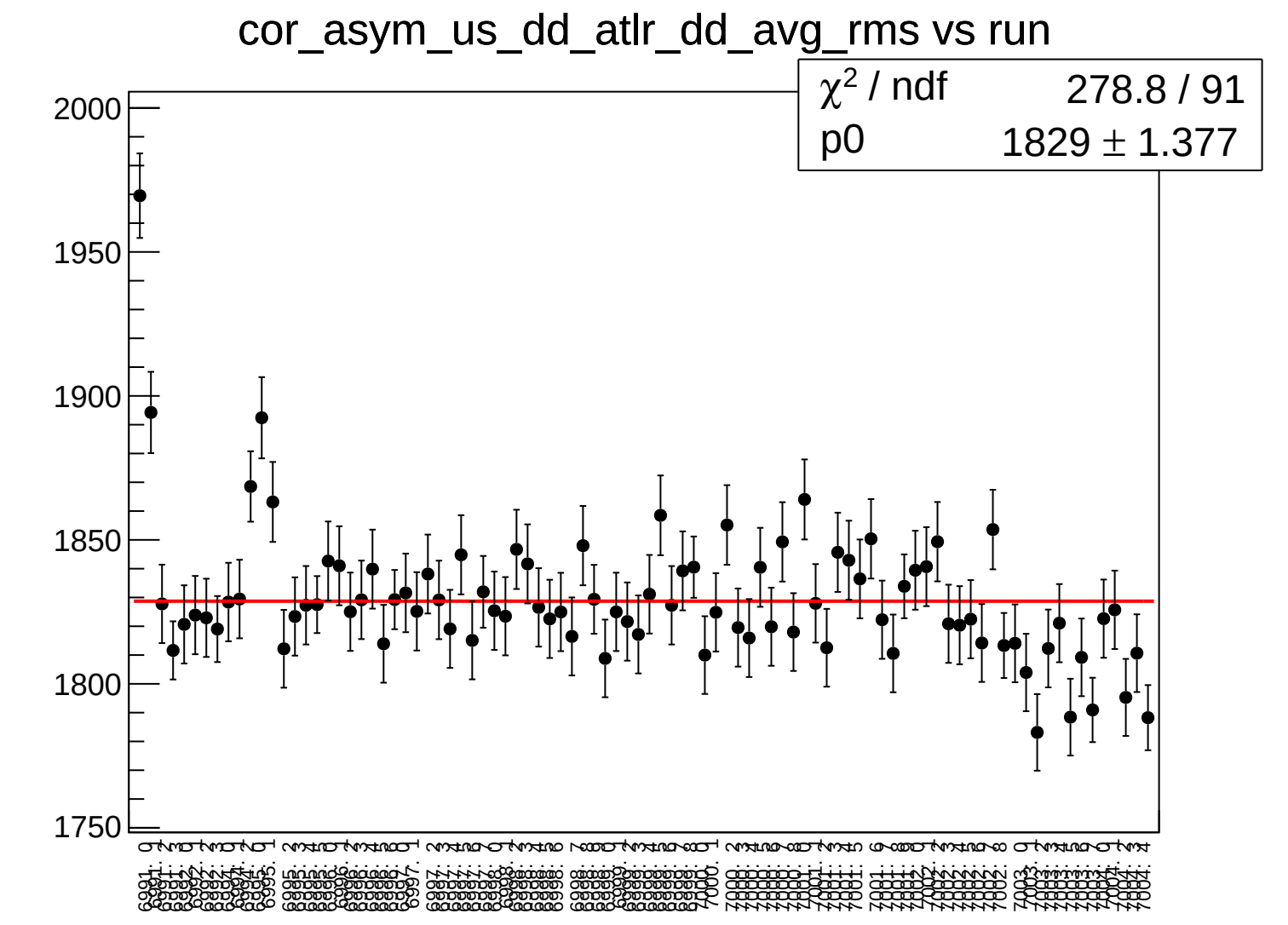

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 91.35 / 91
p0 −1201 ± 833.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −63.4
Std Dev 0
2
1
0
−1
−2

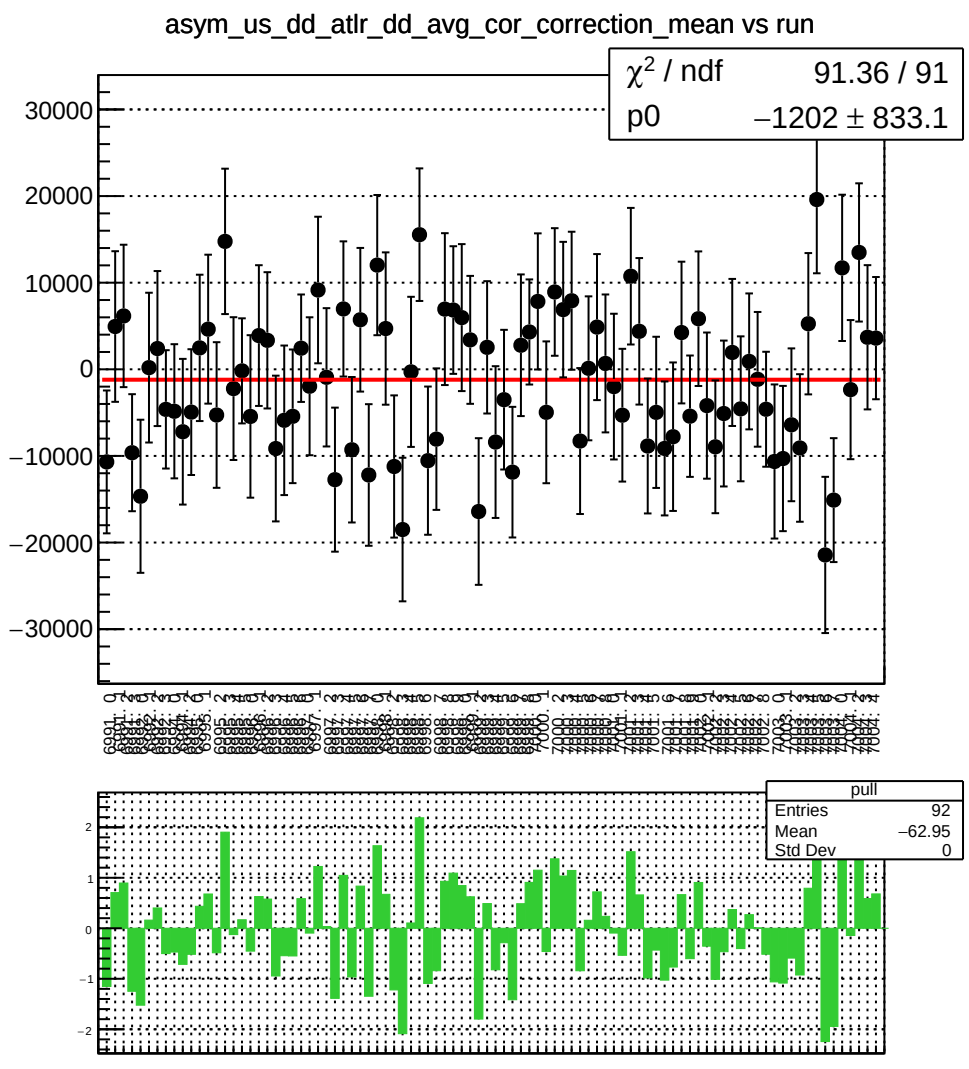

pull1D
Entries 92
Mean −0.007541
Std Dev 0.9964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

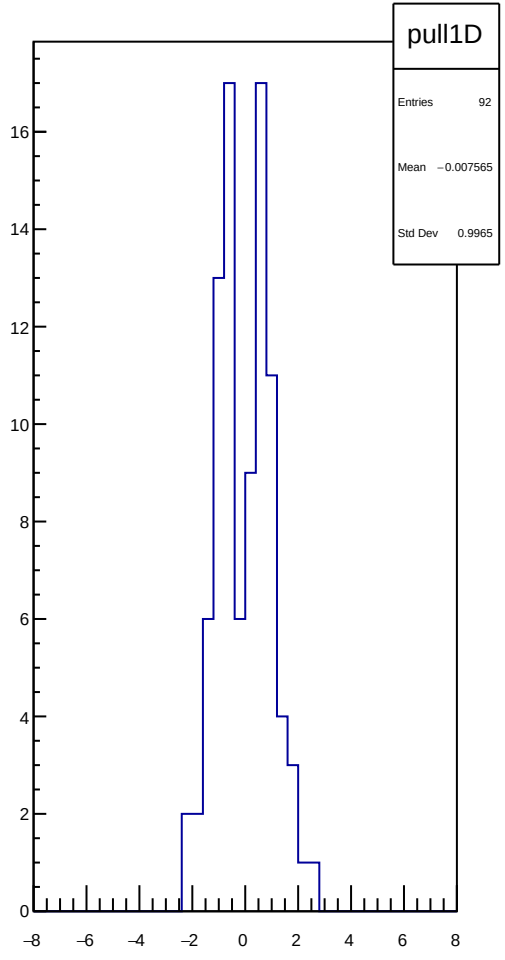

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 4027 / 91
p0 781.8 ± 0.5891
900
850
800
750
700

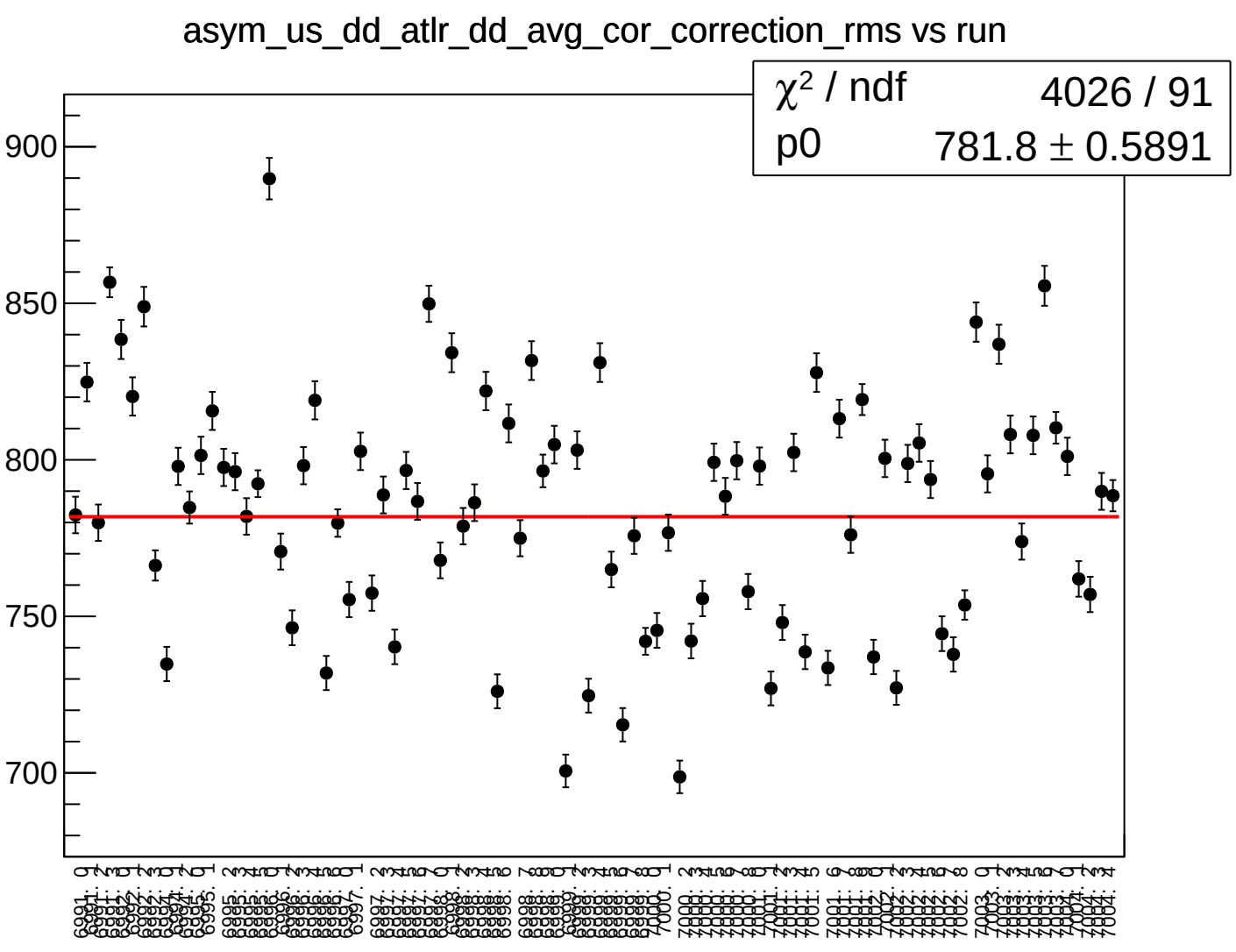

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.76 / 91
p0 −1643 ± 1947
pull
Entries 92
Mean 216.8
Std Dev 0

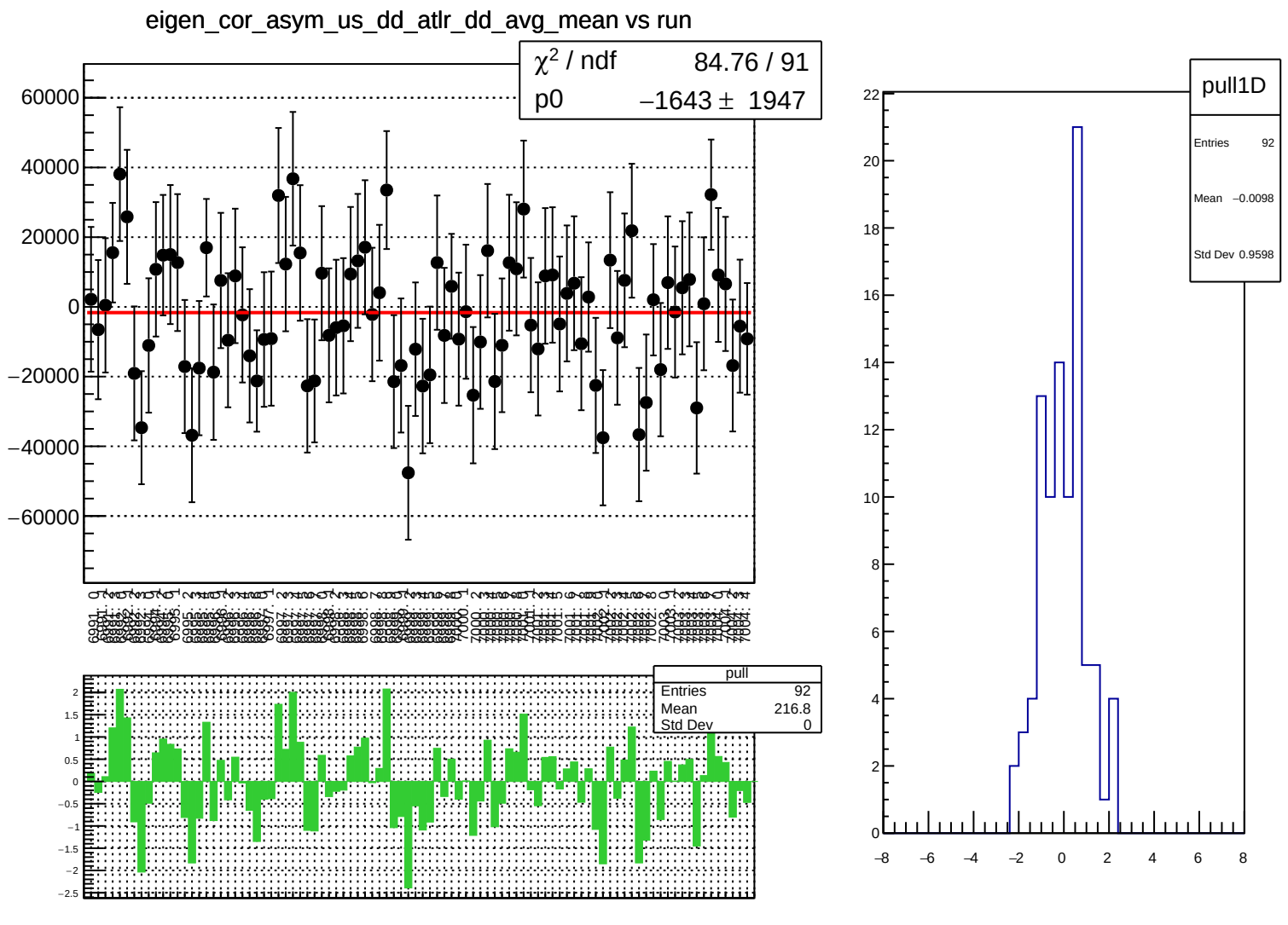

pull1D
Entries 92
Mean −0.0098
Std Dev 0.9598

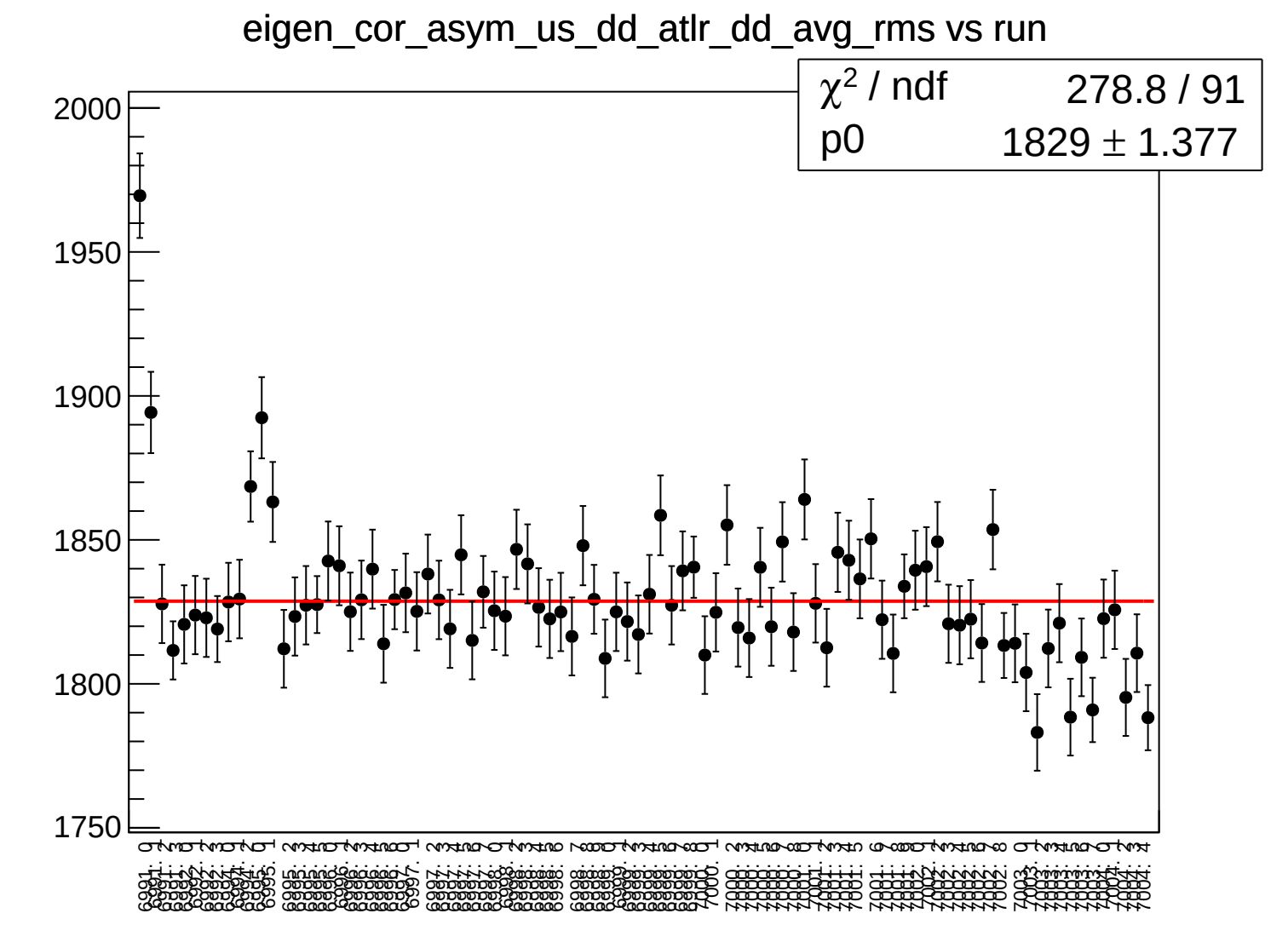

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 278.8 / 91
p0 1829 ± 1.377
2000
1950
1900
1850
1800
1750

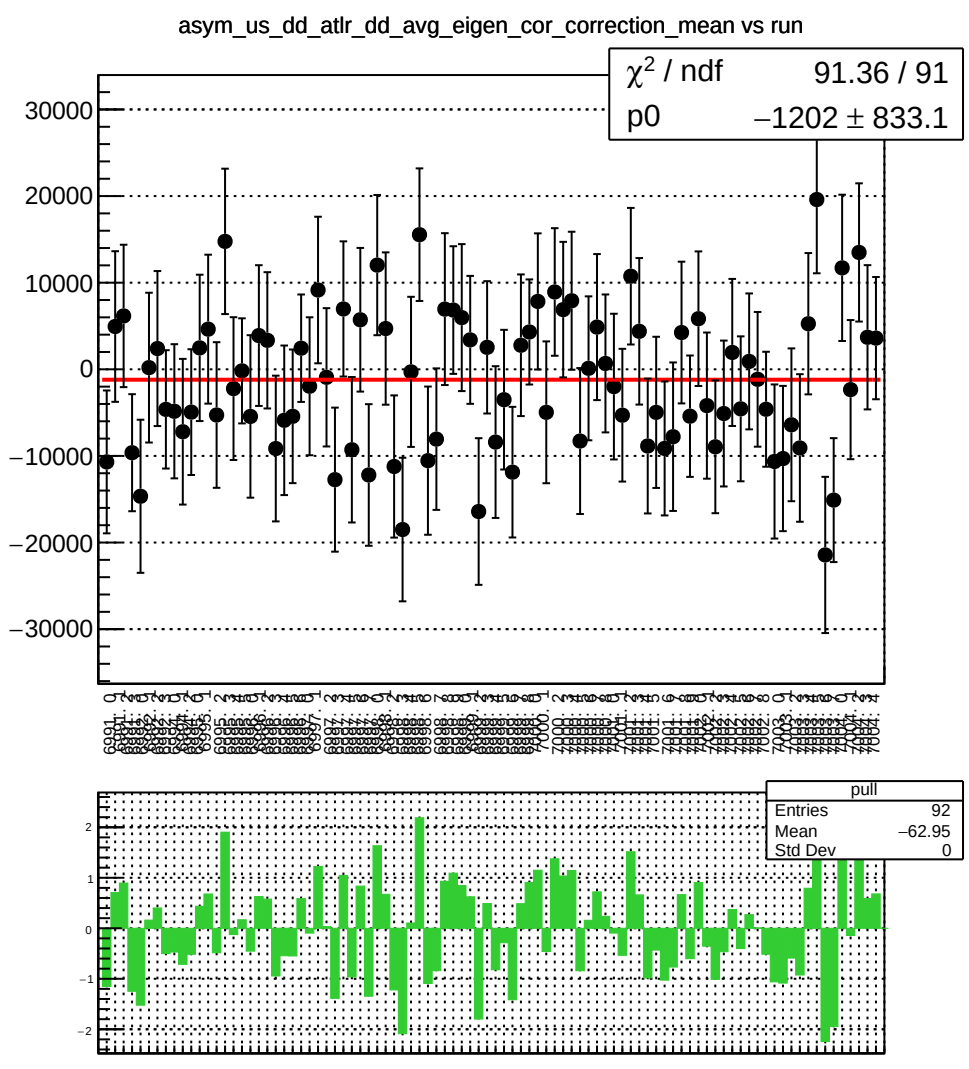

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 91.36 / 91
p0 −1202 ± 833.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −62.95
Std Dev 0
2
1
0
−1
−2

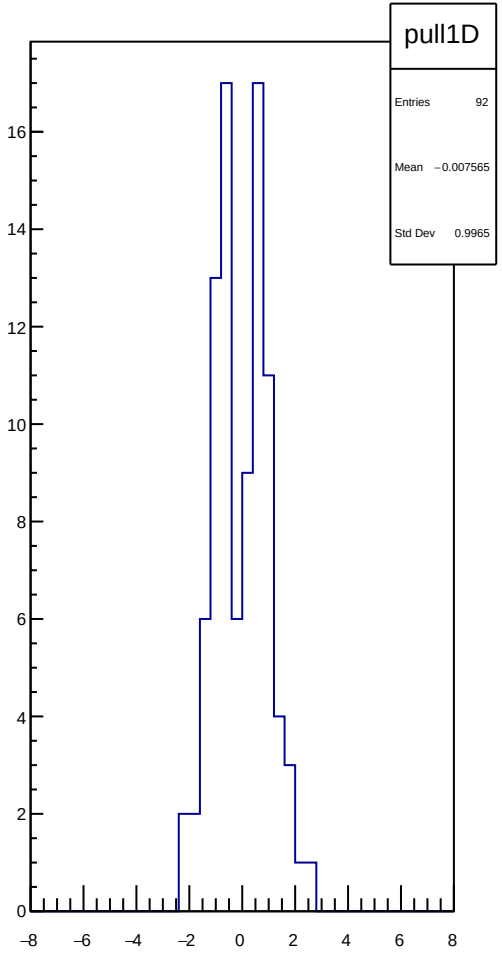

pull1D
Entries 92
Mean −0.007565
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

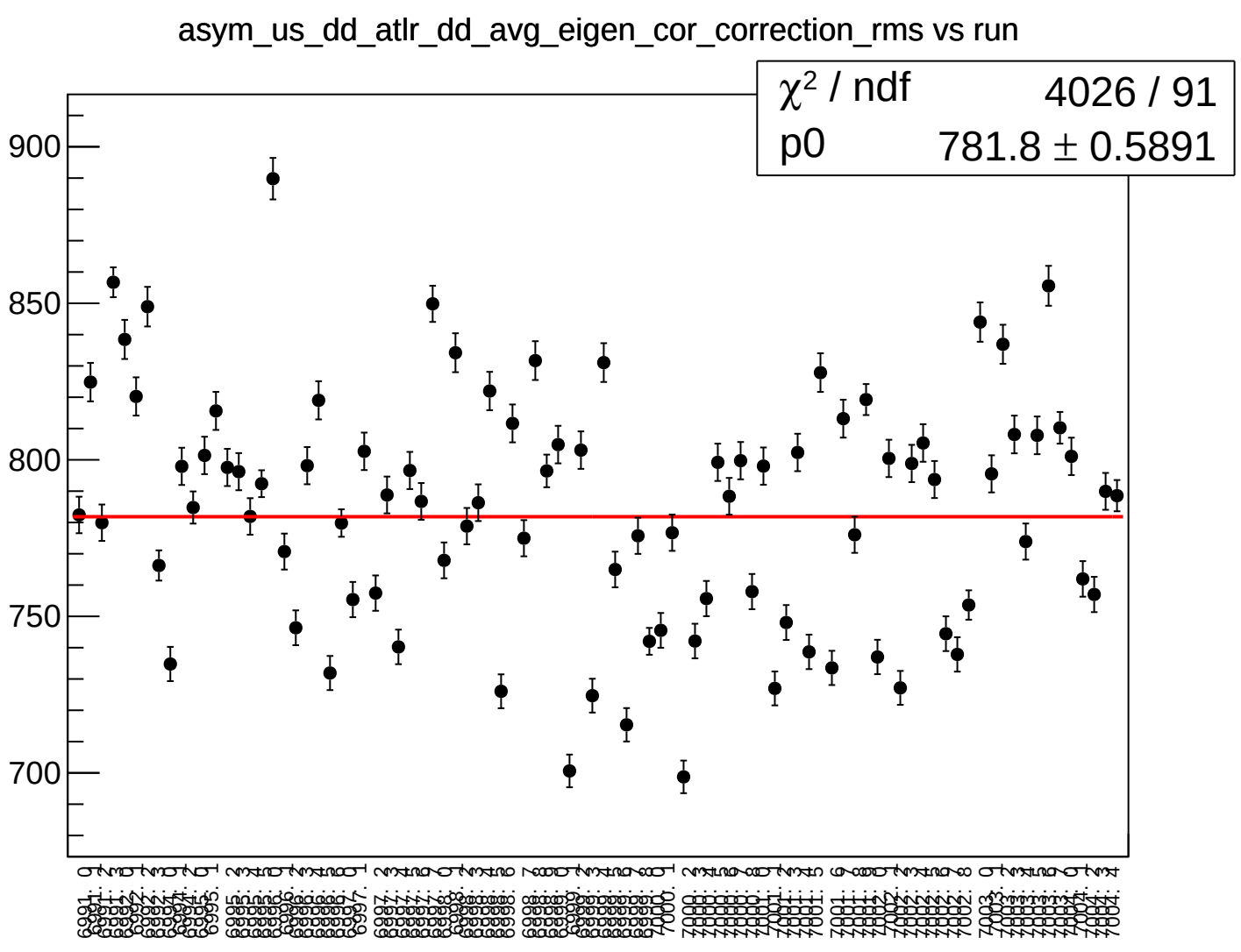

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 4026 / 91
p0 781.8 ± 0.5891
900
850
800
750
700

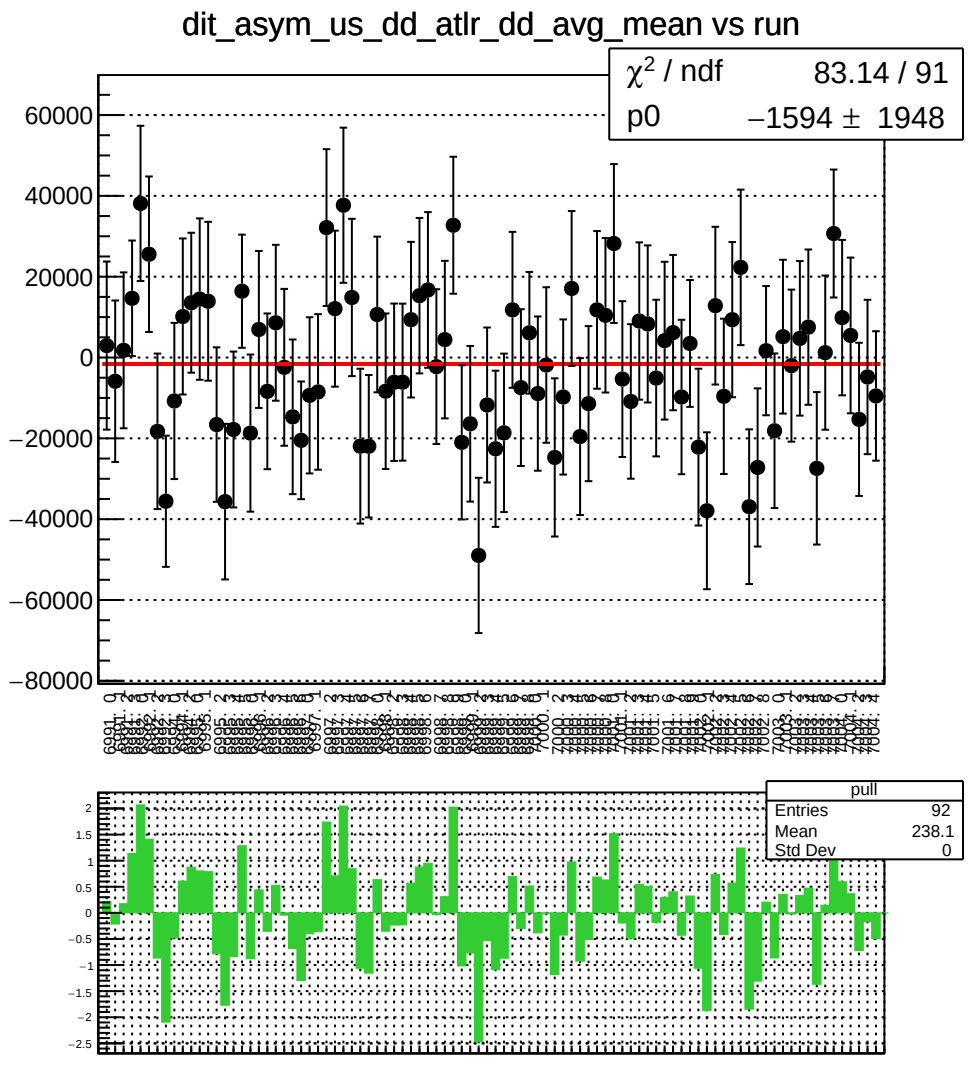

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 84.76 / 91
p0 −1643 ± 1947
pull
Entries 92
Mean 216.8
Std Dev 0
pull1D
Entries 92
Mean −0.0098
Std Dev 0.9598

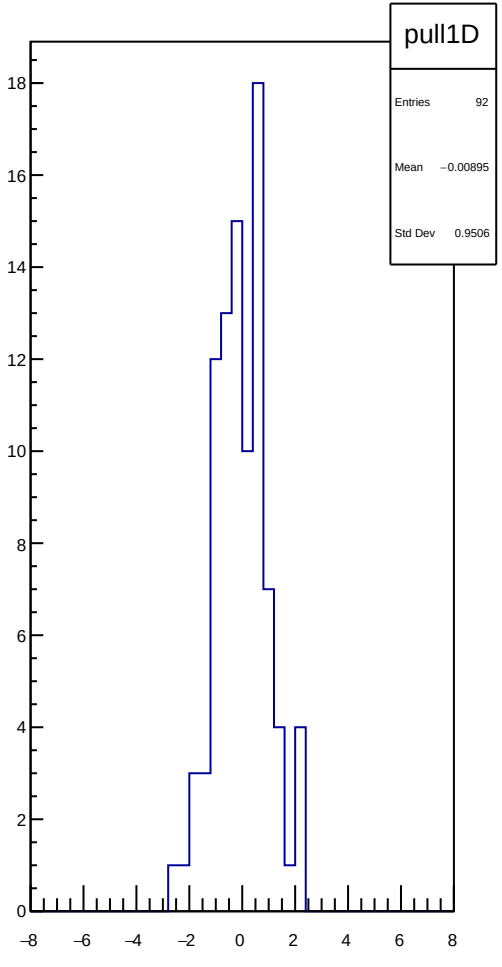

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 278.8 / 91
p0 1829 ± 1.377
2000
1950
1900
1850
1800
1750

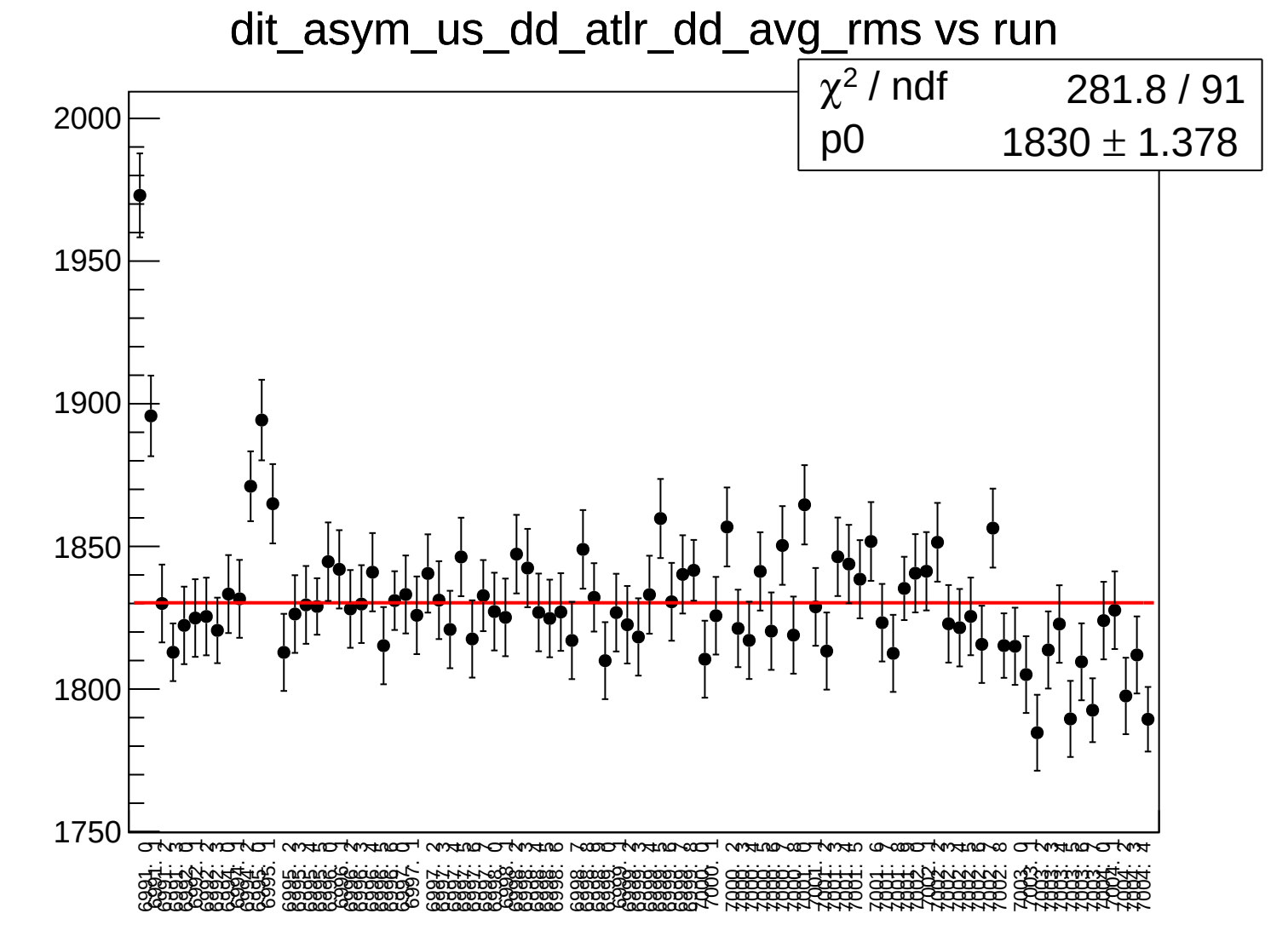

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.36 / 91
p0 −1202 ± 833.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −62.95
Std Dev 0
2
1
0
−1
−2

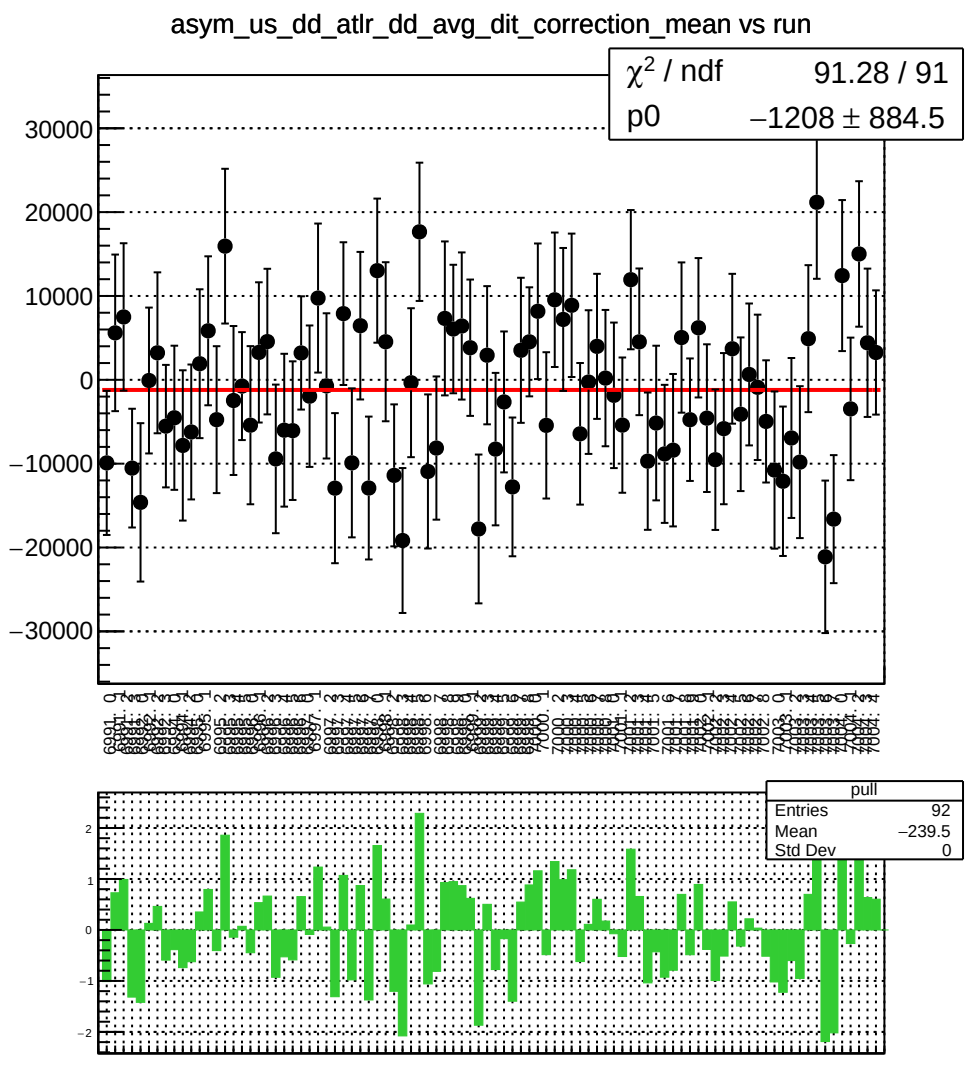

pull1D
Entries 92
Mean −0.007565
Std Dev 0.9965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

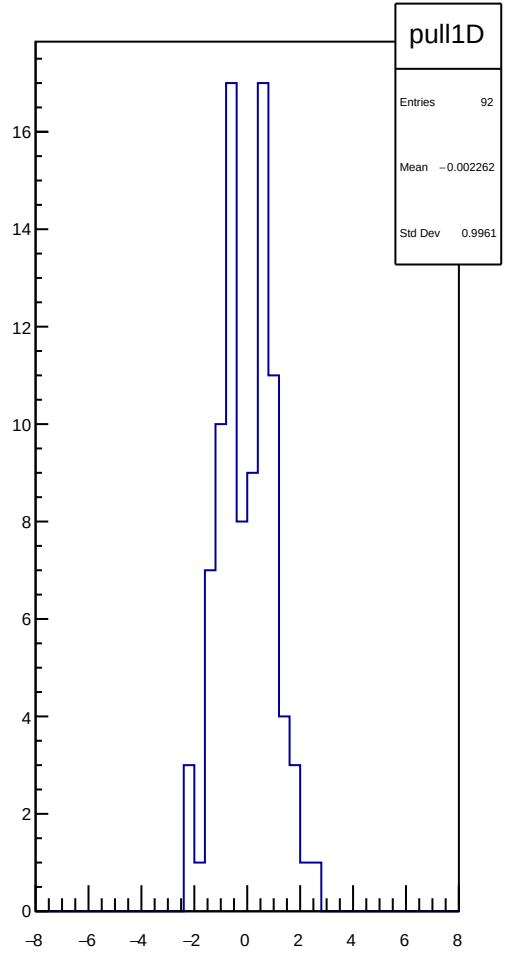

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4026 / 91
p0 781.8 ± 0.5891
900
850
800
750
700

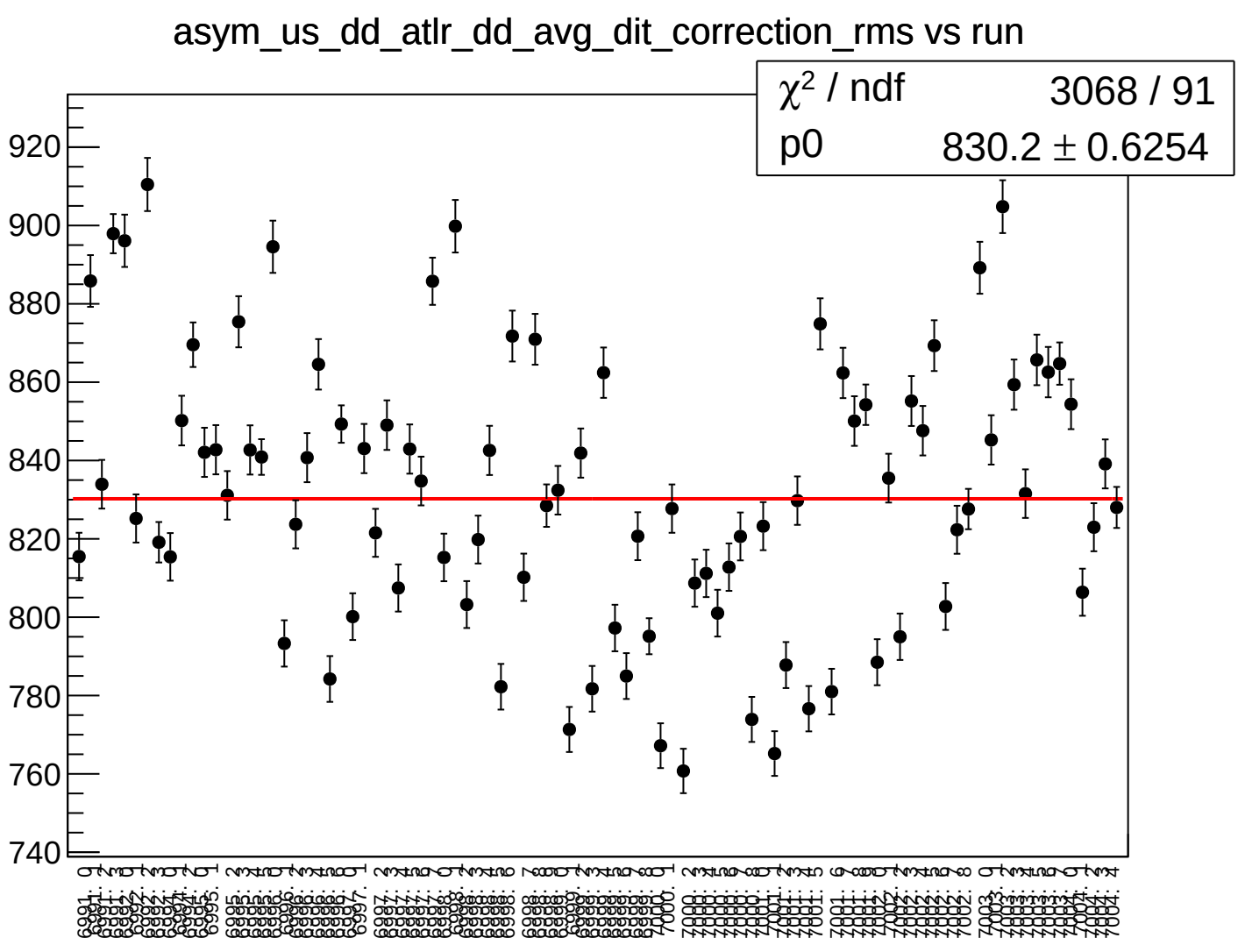

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 83.14 / 91
p0 −1594 ± 1948
pull
Entries 92
Mean 238.1
Std Dev 0

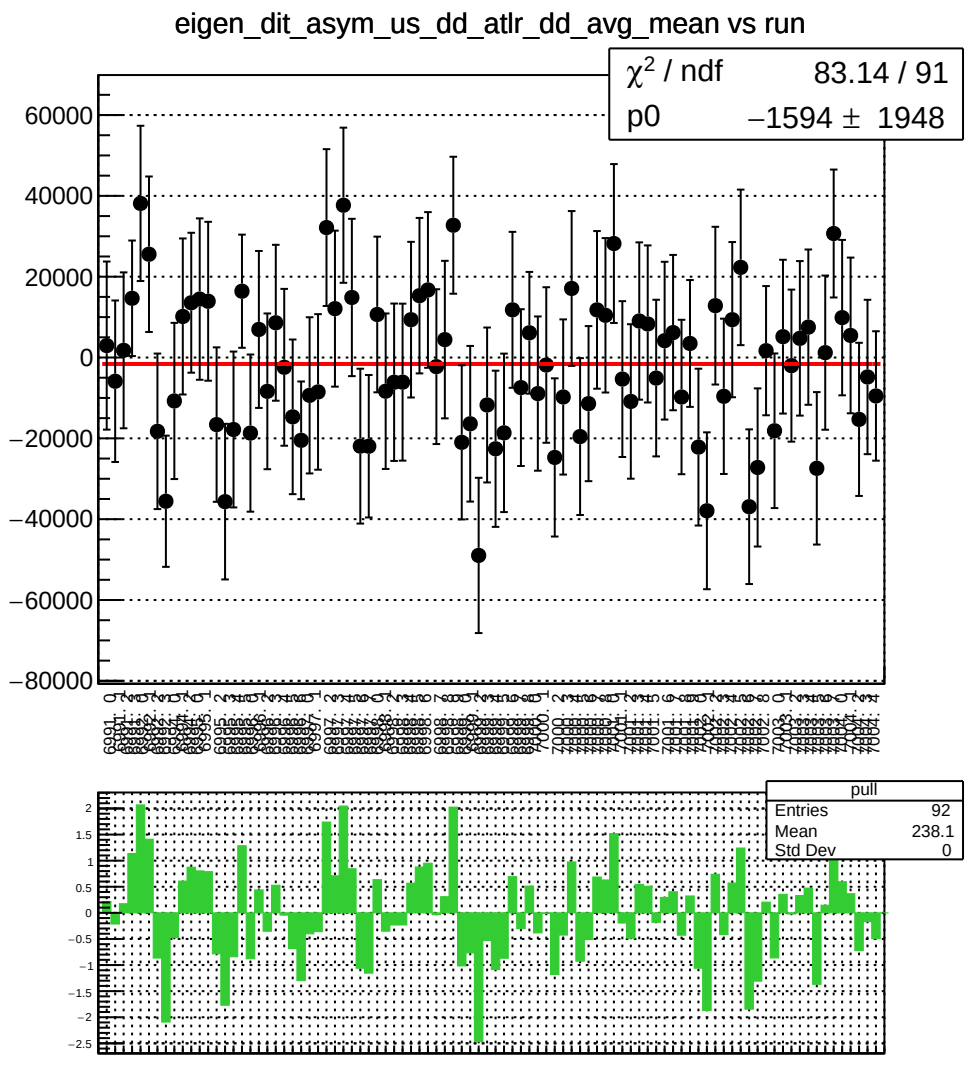

pull1D
Entries 92
Mean −0.00895
Std Dev 0.9506

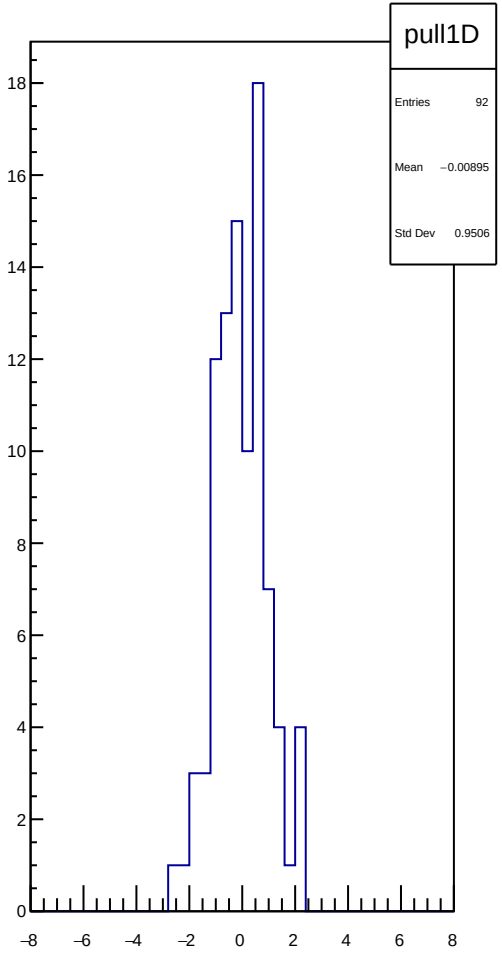

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 281.8 / 91
p0 1830 ± 1.378
2000
1950
1900
1850
1800
1750

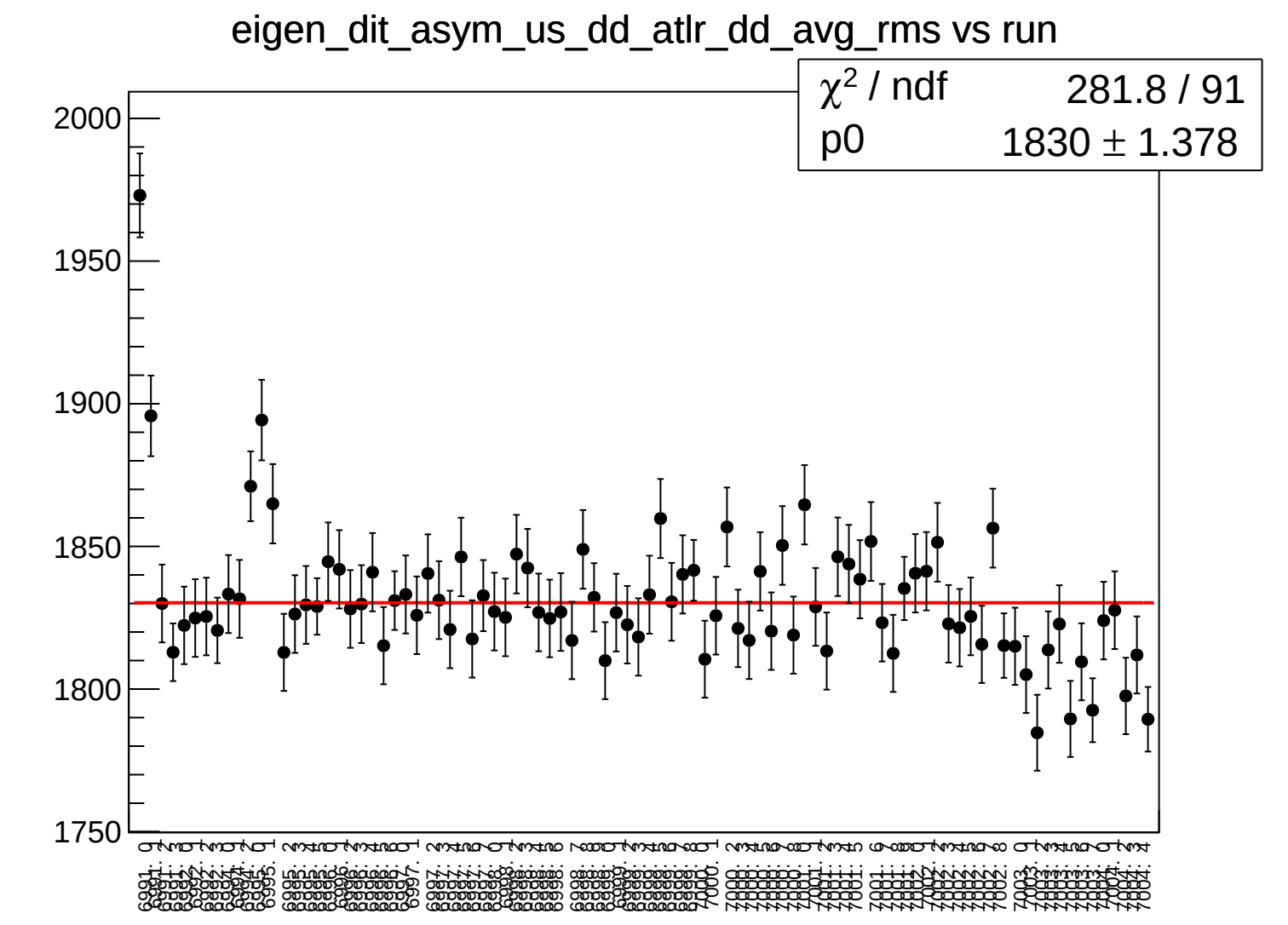

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 91.28 / 91
p0 −1208 ± 884.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −239.5
Std Dev 0
2
1
0
−1
−2

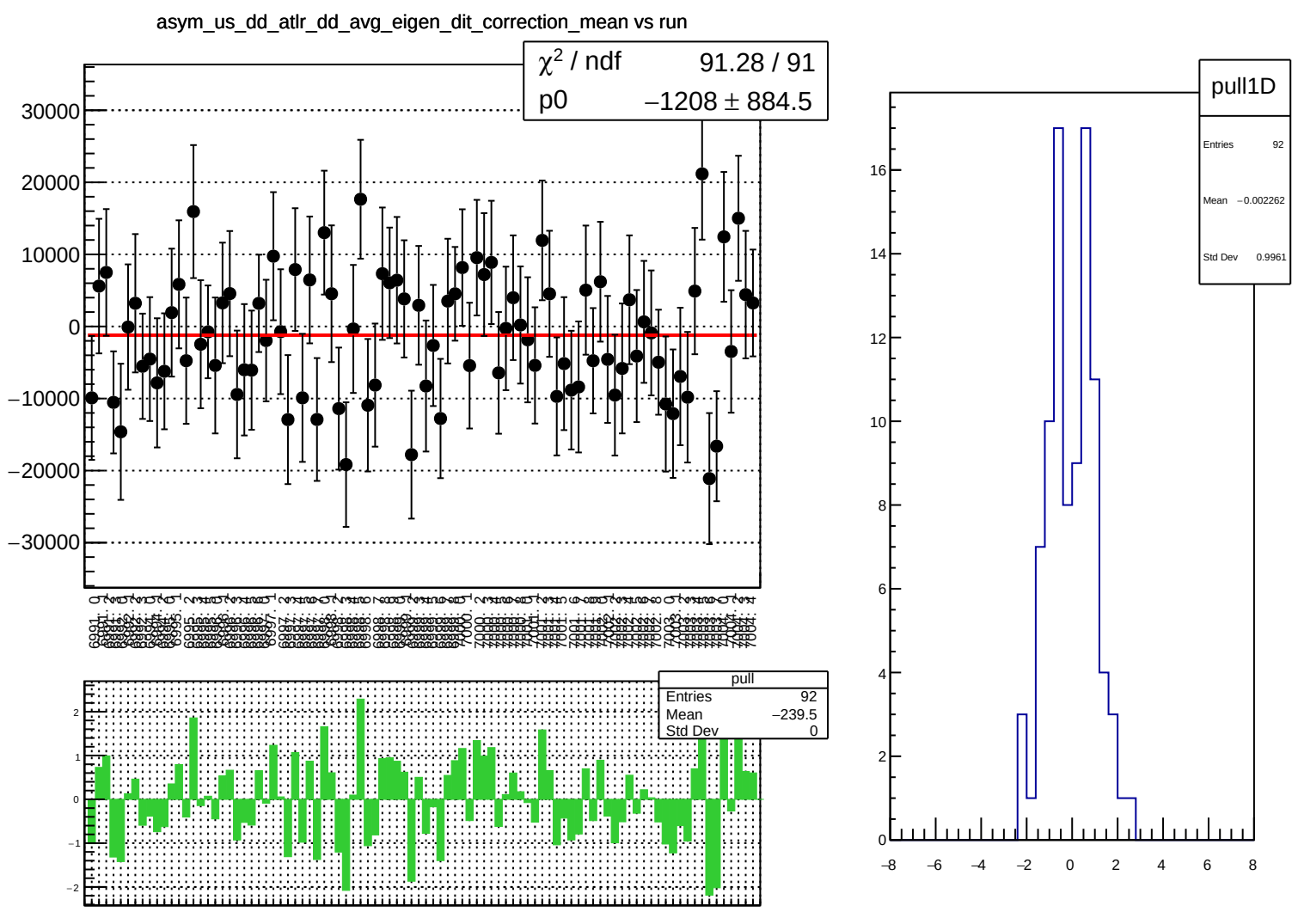

pull1D
Entries 92
Mean −0.002262
Std Dev 0.9961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

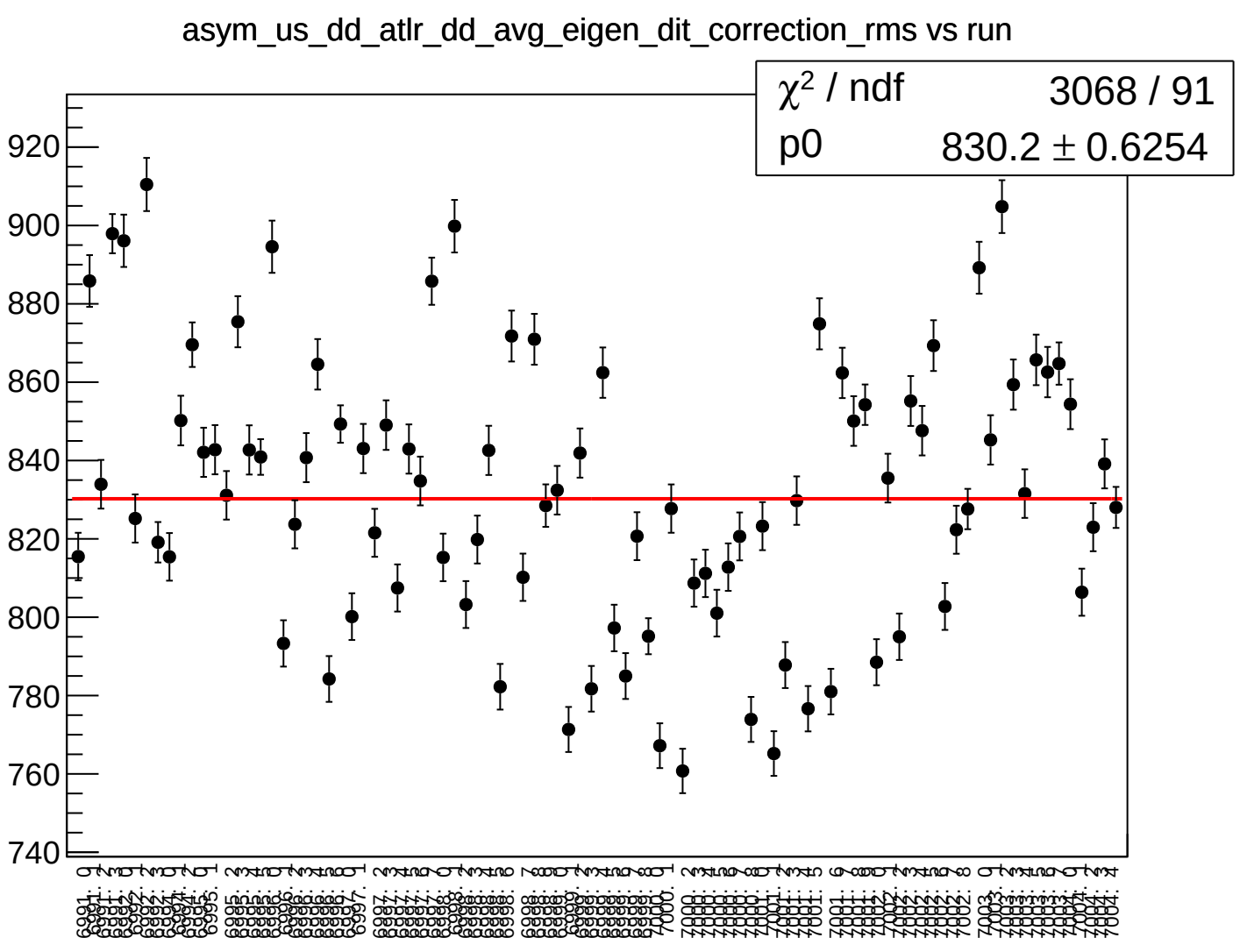

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3068 / 91
p0 830.2 ± 0.6254
920
900
880
860
840
820
800
780
760
740

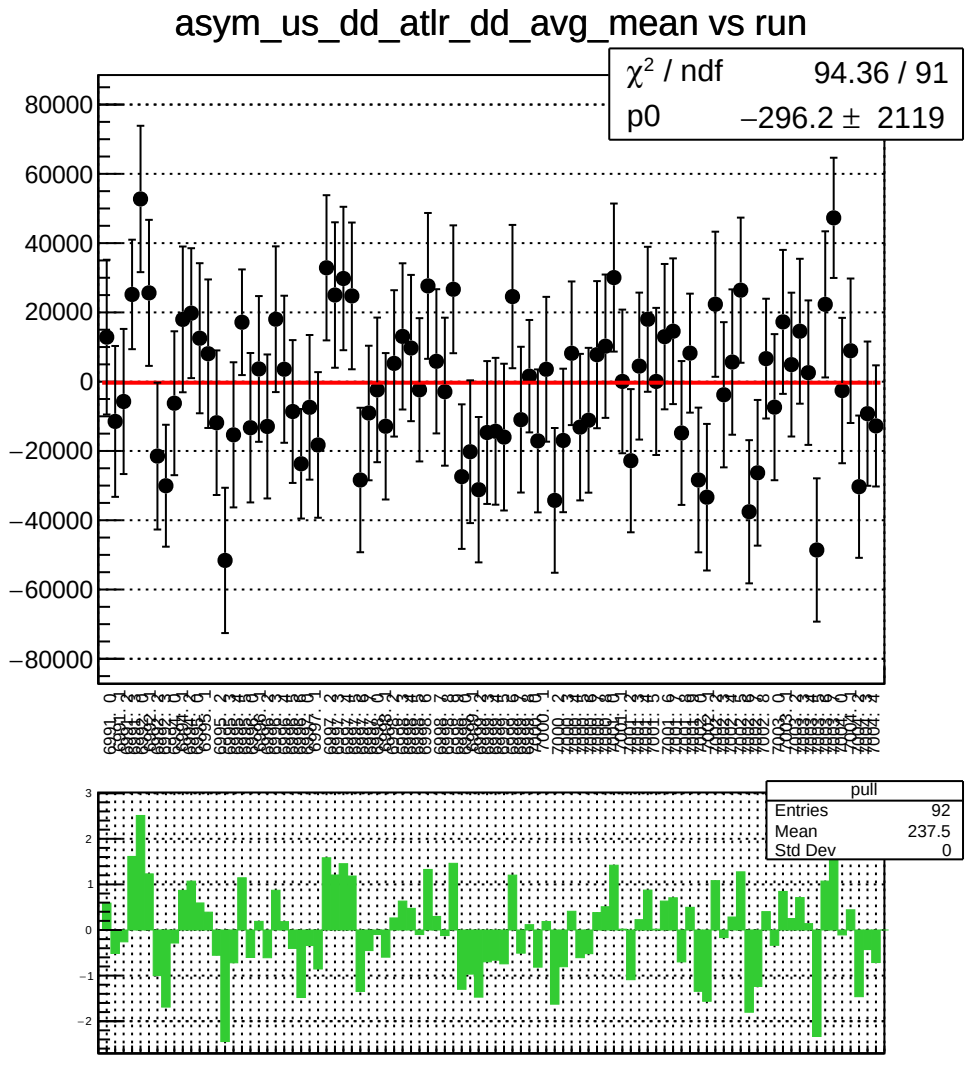

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 83.14 / 91
p0 −1594 ± 1948
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 238.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

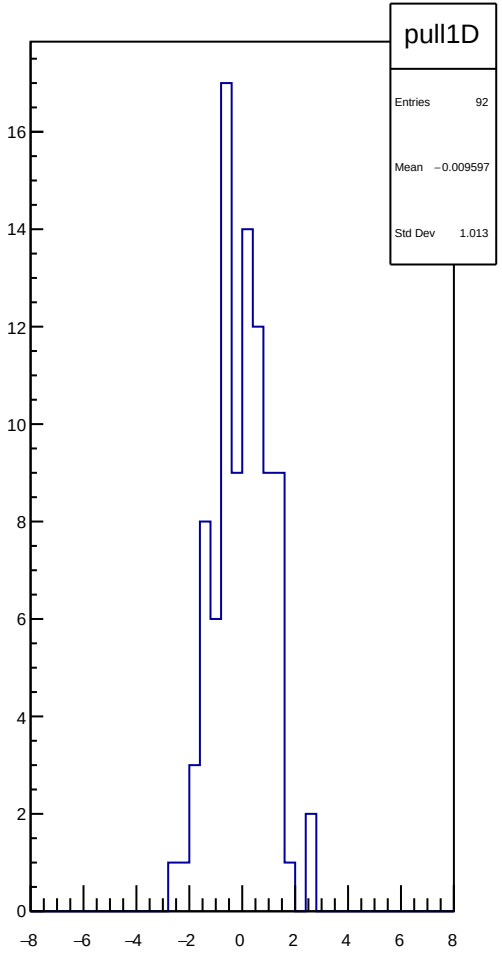

pull1D
Entries 92
Mean −0.00895
Std Dev 0.9506
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

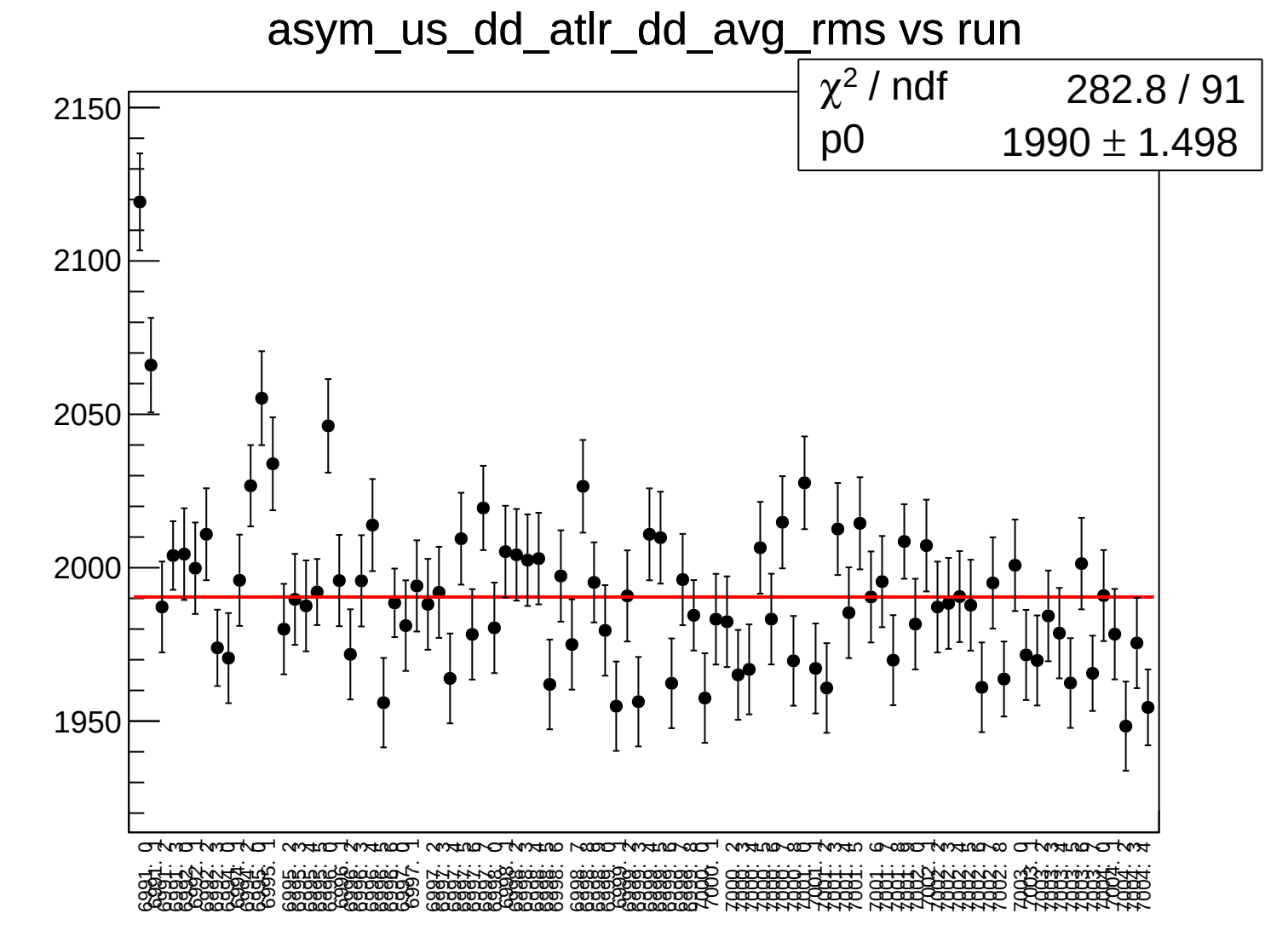

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 281.8 / 91
p0 1830 ± 1.378
2000
1950
1900
1850
1800
1750

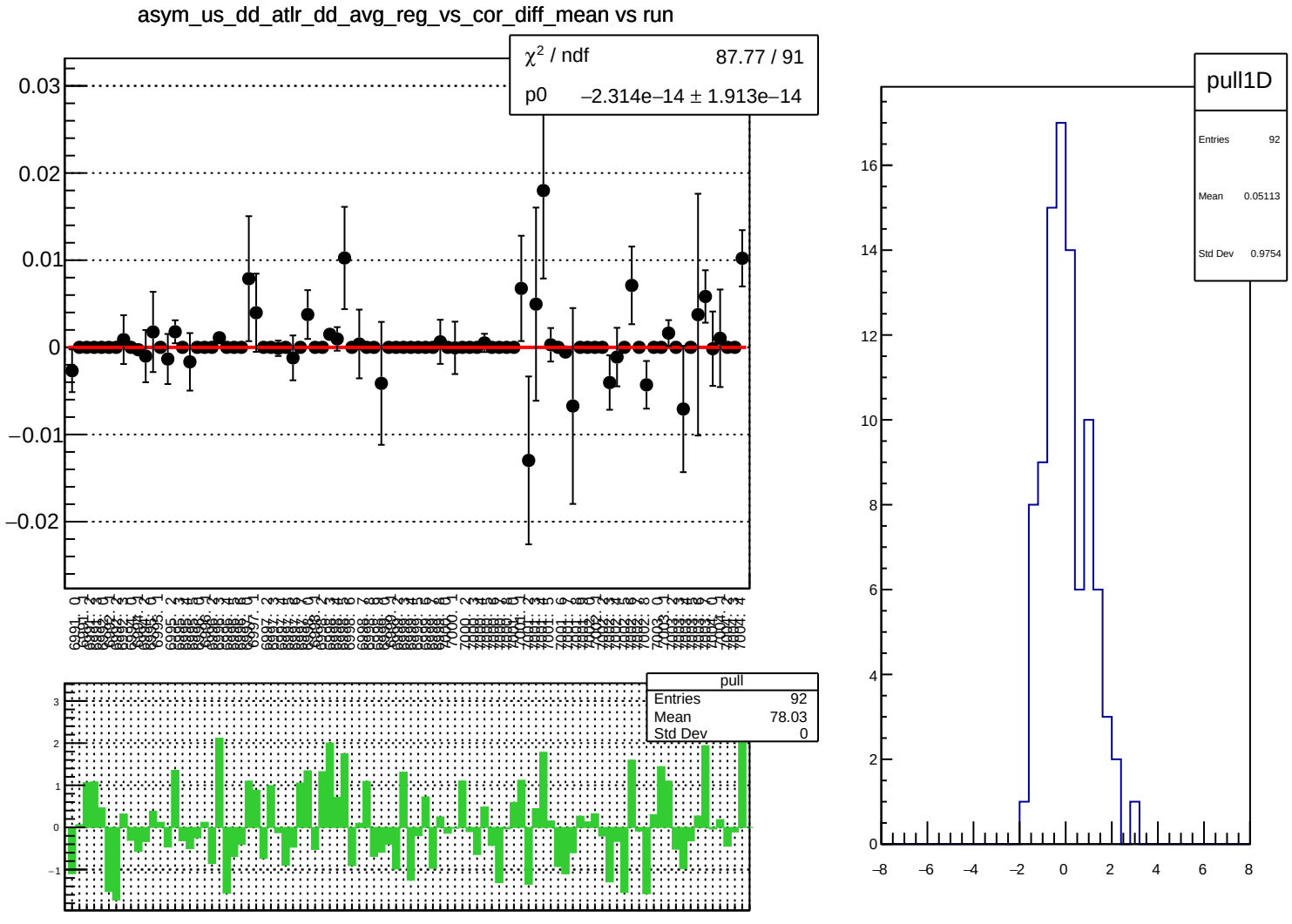

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.28 / 91
p0 −1208 ± 884.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −239.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002262
Std Dev 0.9961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

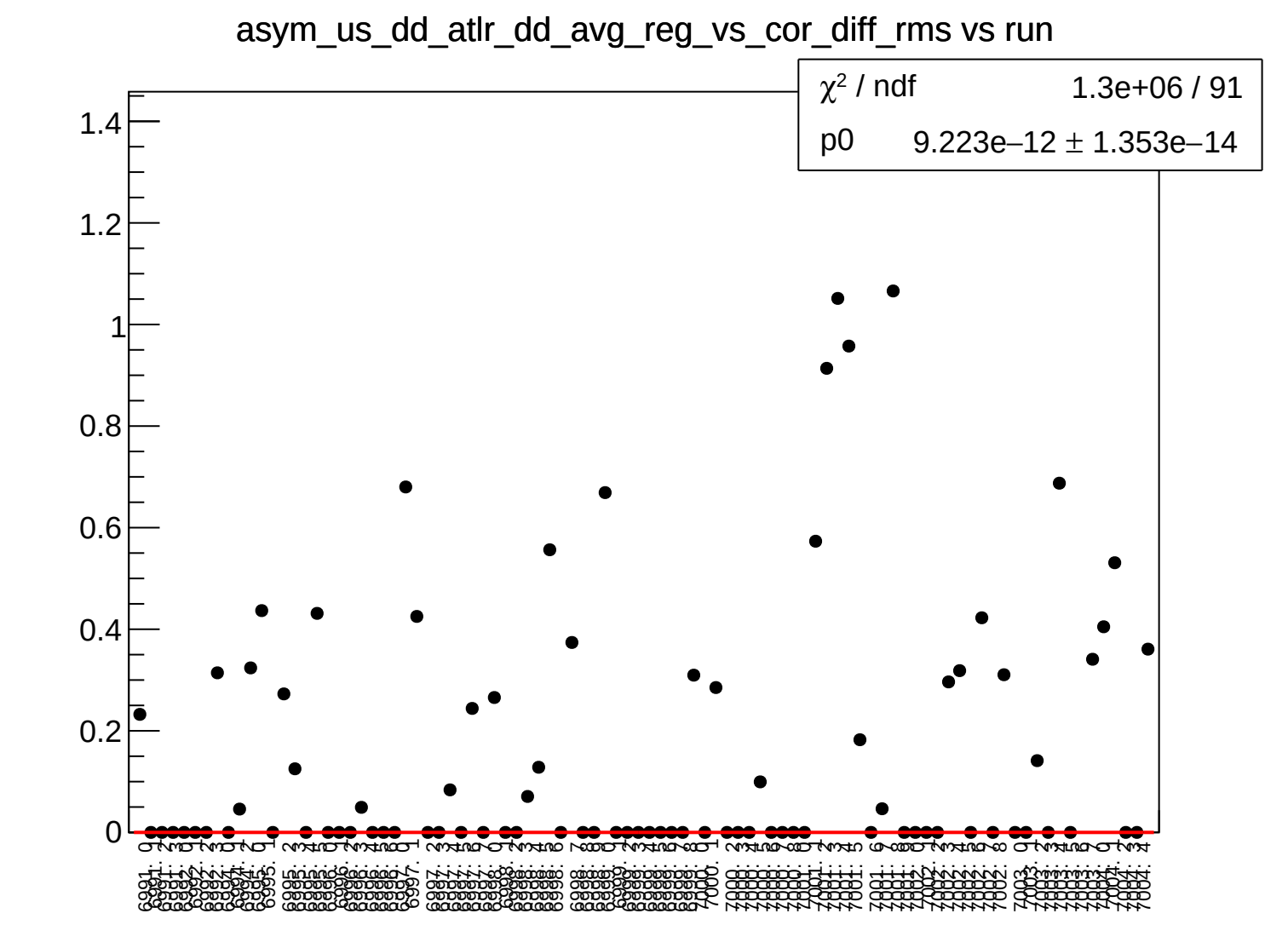

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3068 / 91
p0 830.2 ± 0.6254
920
900
880
860
840
820
800
780
760
740

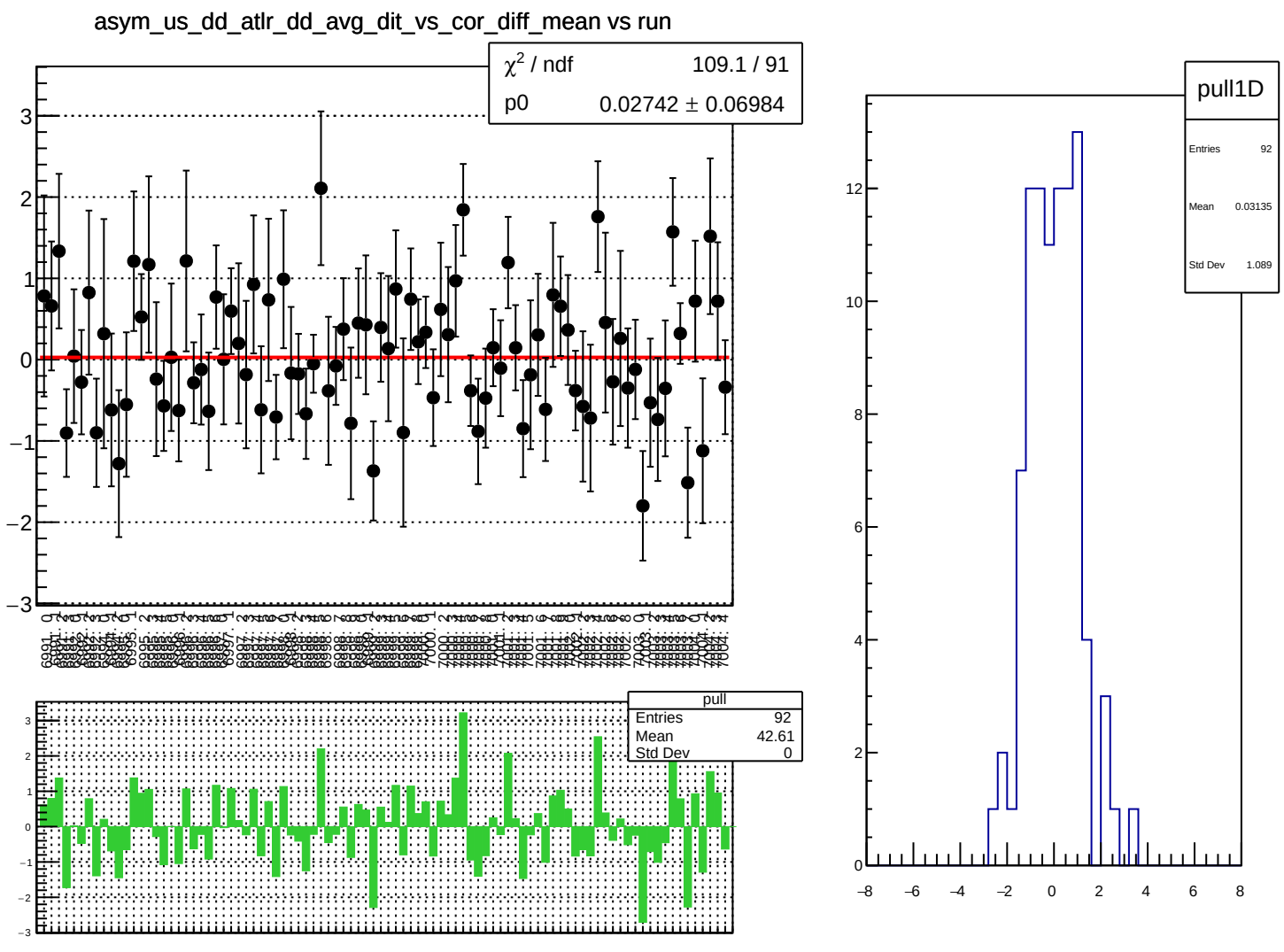

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 94.36 / 91
p0 −296.2 ± 2119
pull
Entries 92
Mean 237.5
Std Dev 0

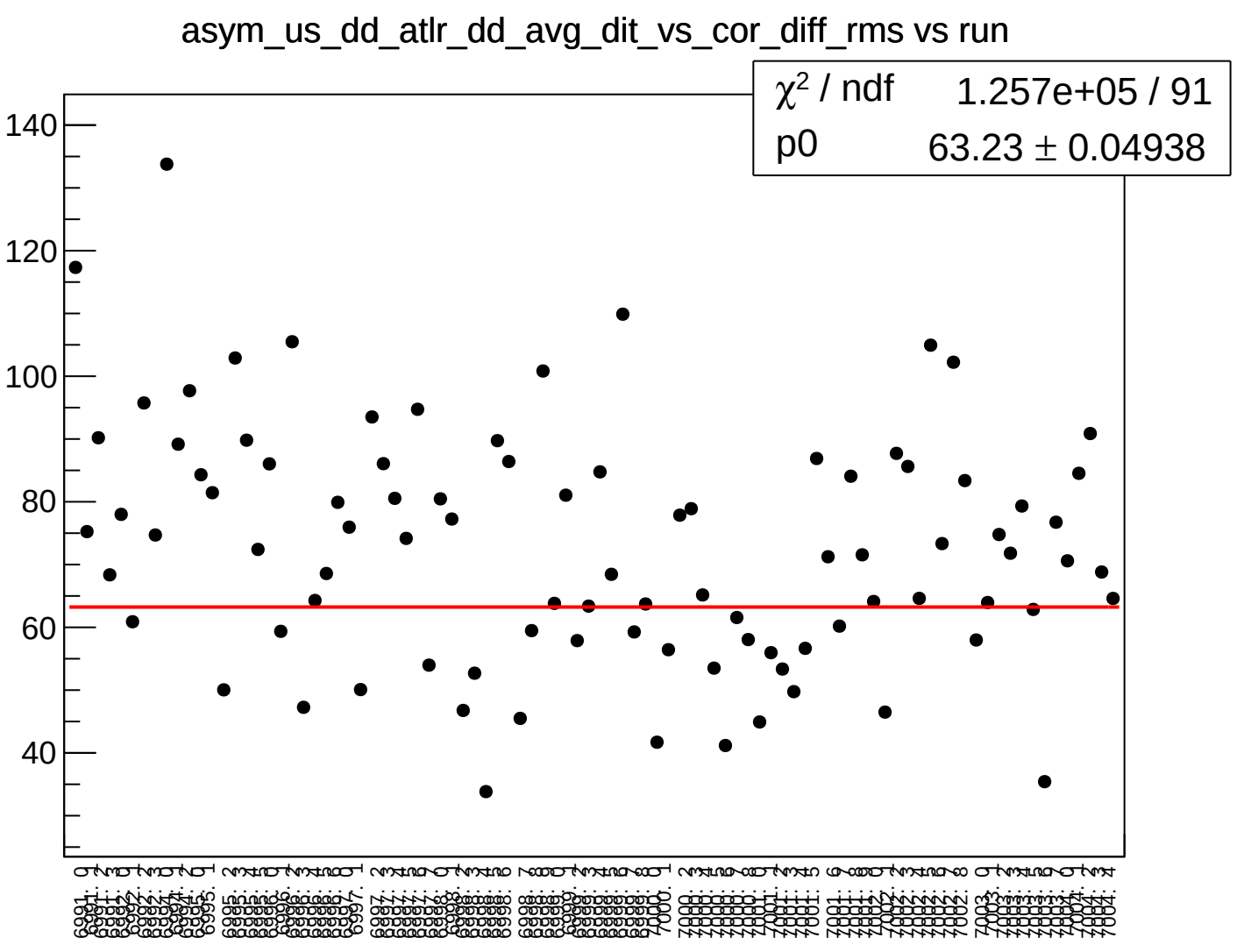

pull1D
Entries 92
Mean −0.009597
Std Dev 1.013

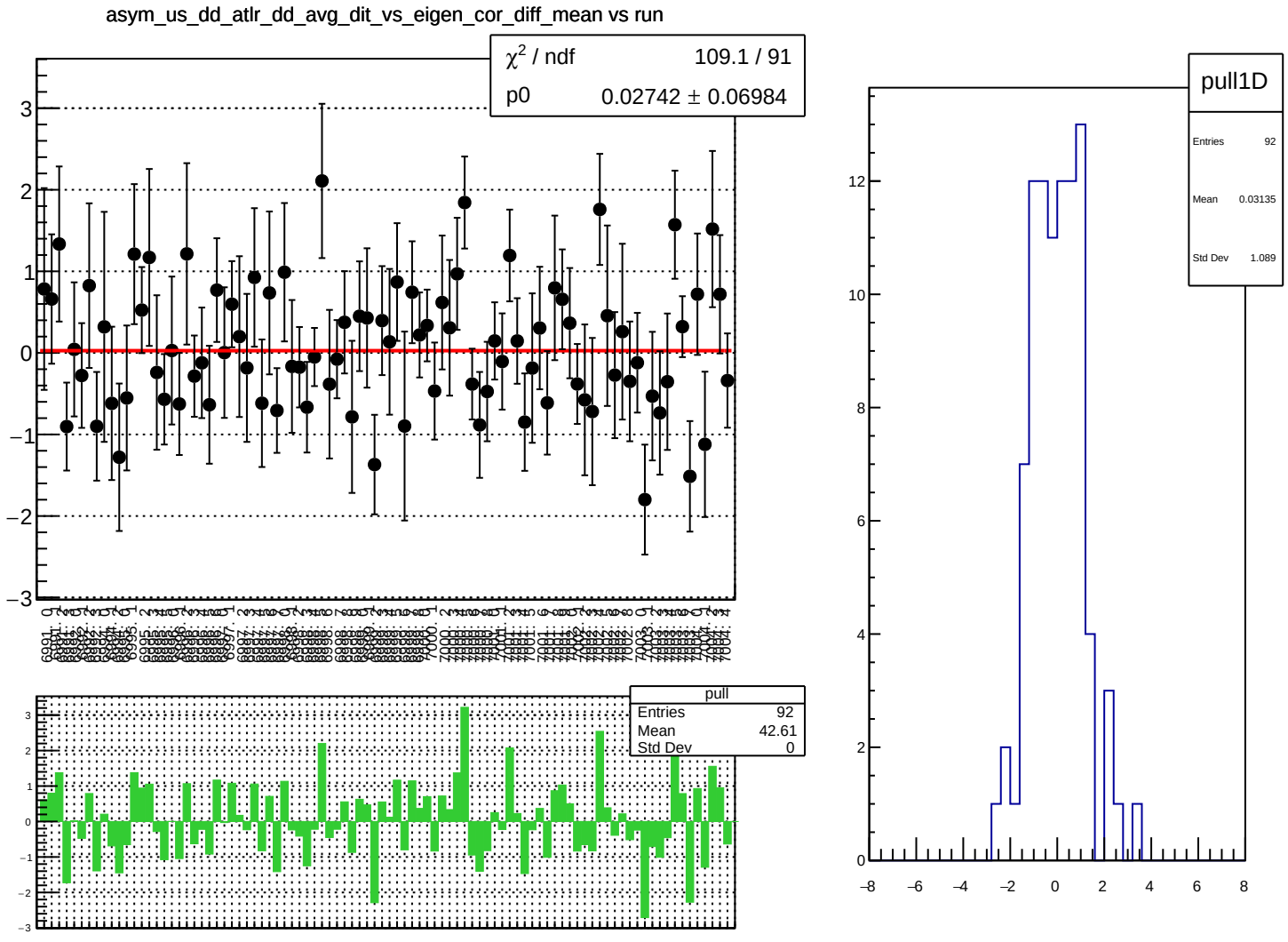

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 282.8 / 91
p0 1990 ± 1.498
2150
2100
2050
2000
1950

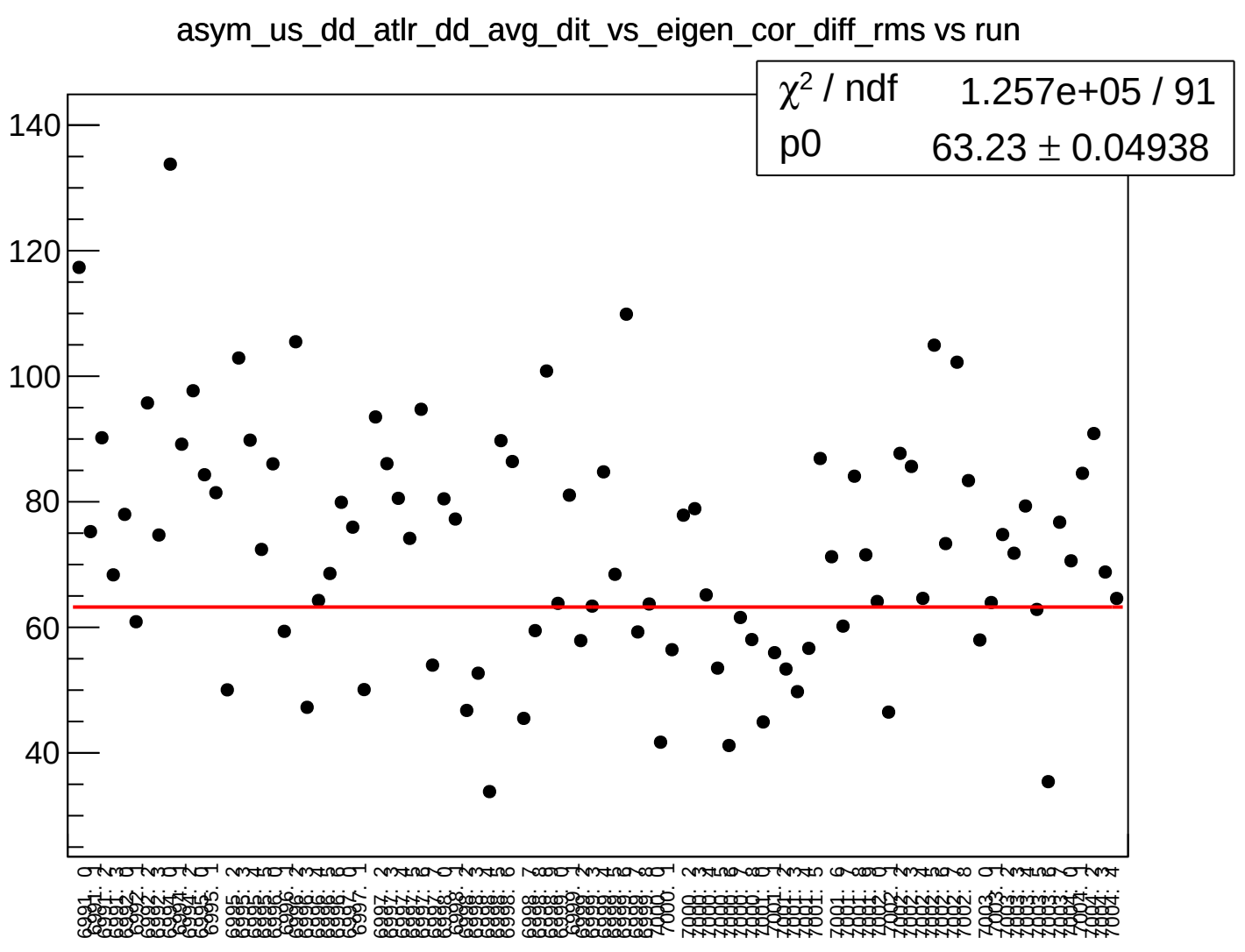

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.77 / 91
p0 −2.314e−14 ± 1.913e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 78.03
Std Dev 0
3
2
1
0
−1
pull1D
Entries 92
Mean 0.05113
Std Dev 0.9754
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

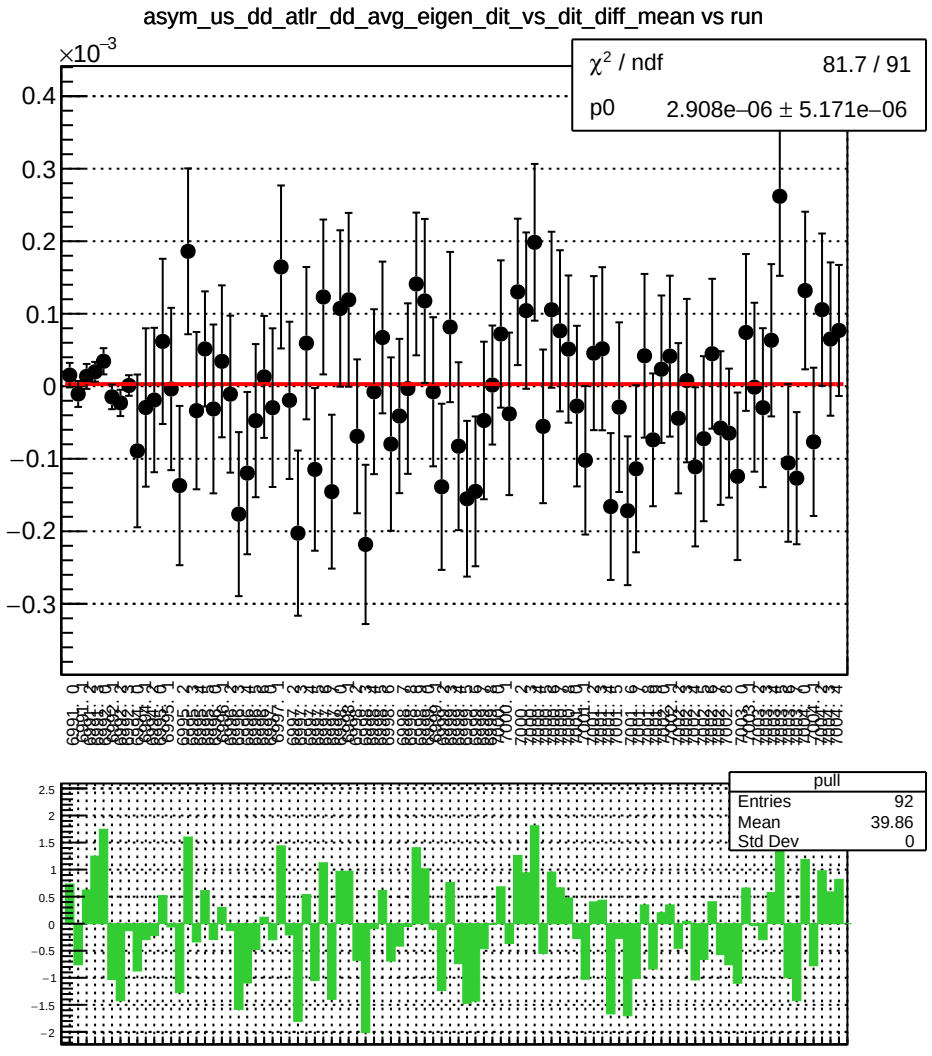

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.3e+06 / 91
p0 9.223e−12 ± 1.353e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

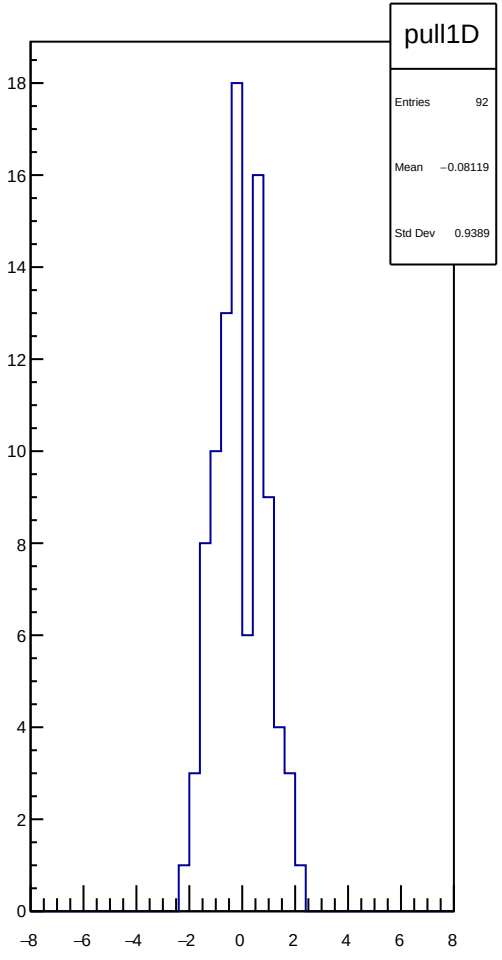

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 91
p0 0.02742 ± 0.06984
pull
Entries 92
Mean 42.61
Std Dev 0
pull1D
Entries 92
Mean 0.03135
Std Dev 1.089

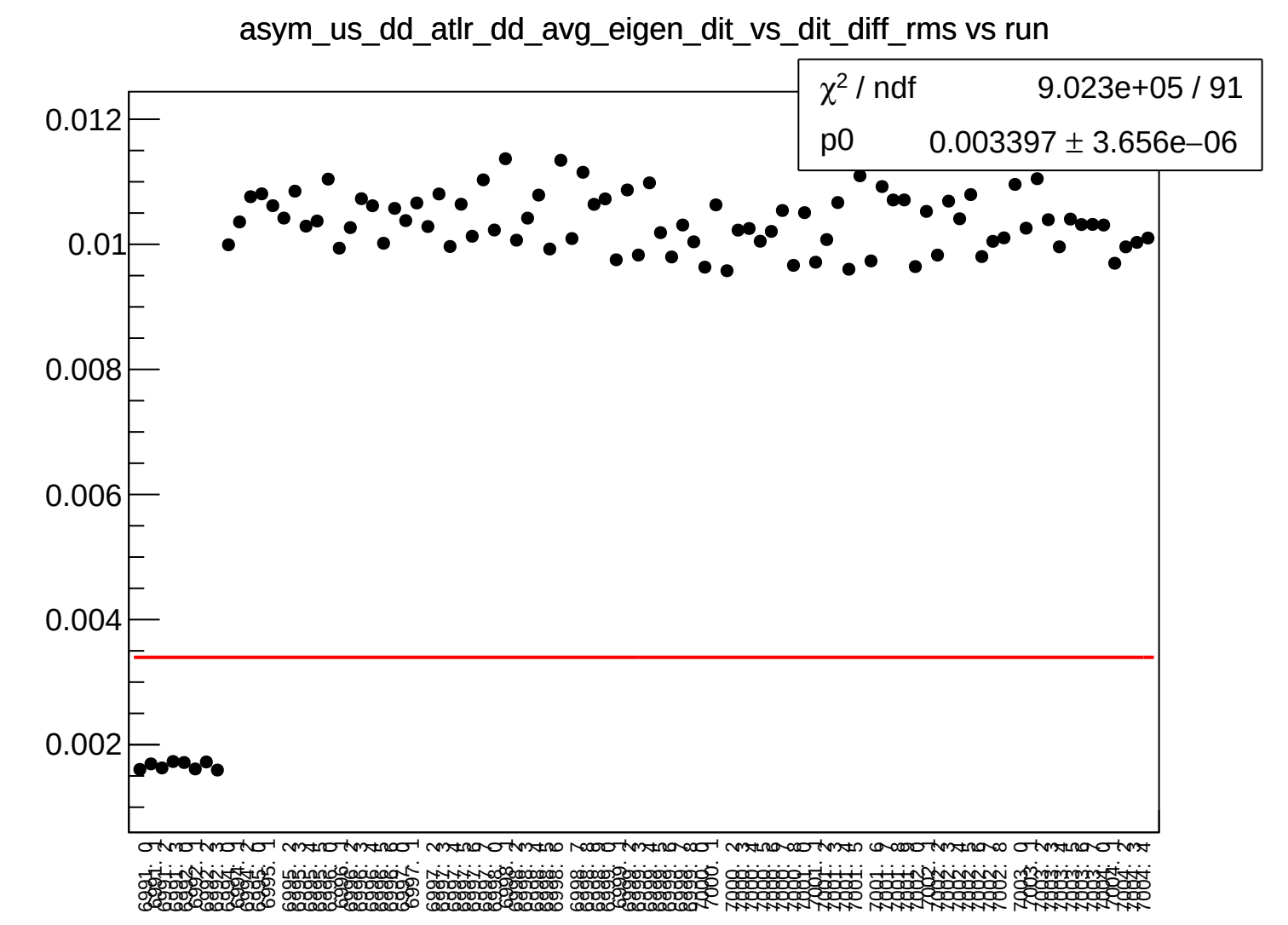

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 91
p0 63.23 ± 0.04938
140
120
100
80
60
40

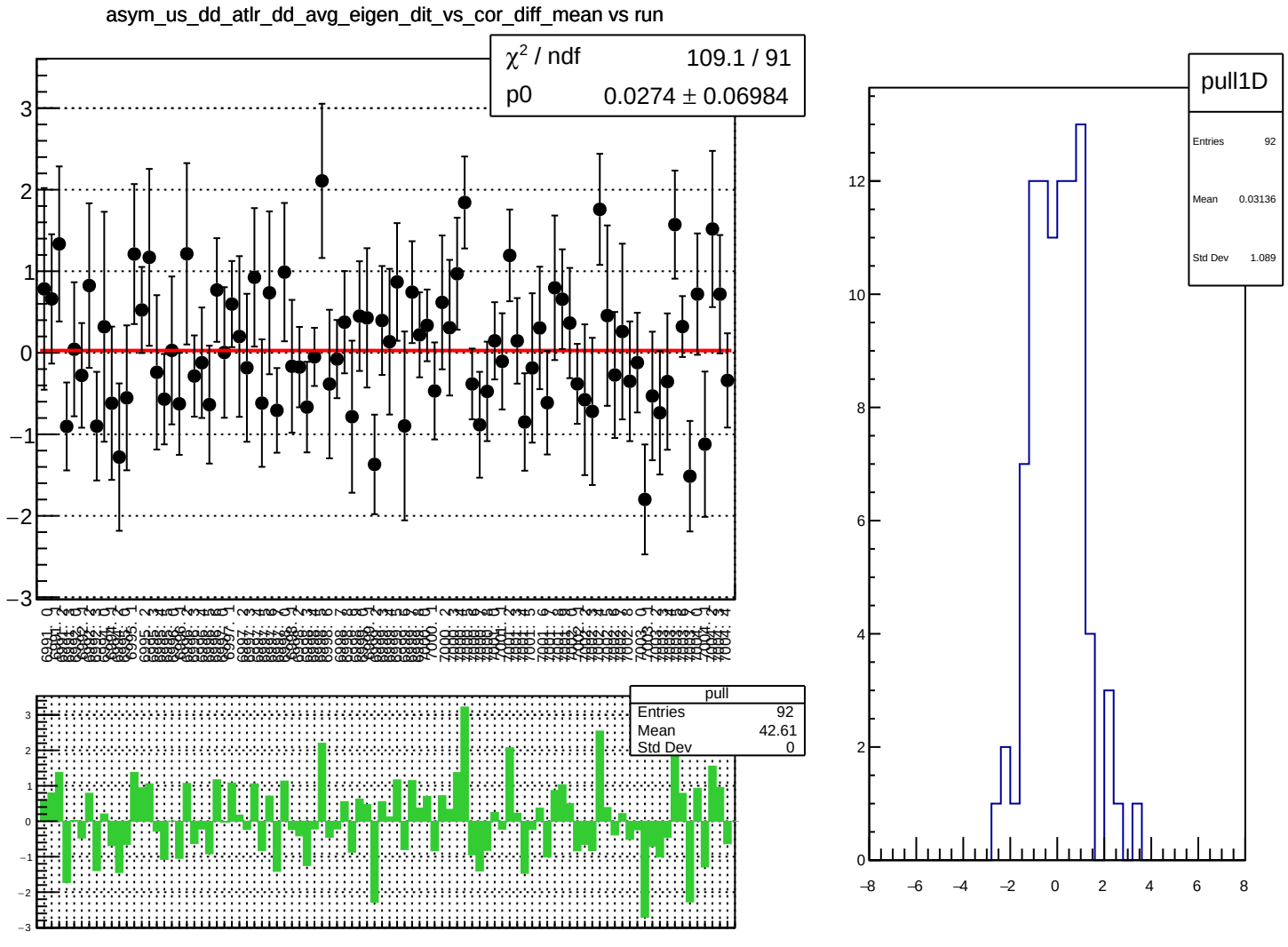

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.1 / 91
p0 0.02742 ± 0.06984
pull
Entries 92
Mean 42.61
Std Dev 0
pull1D
Entries 92
Mean 0.03135
Std Dev 1.089

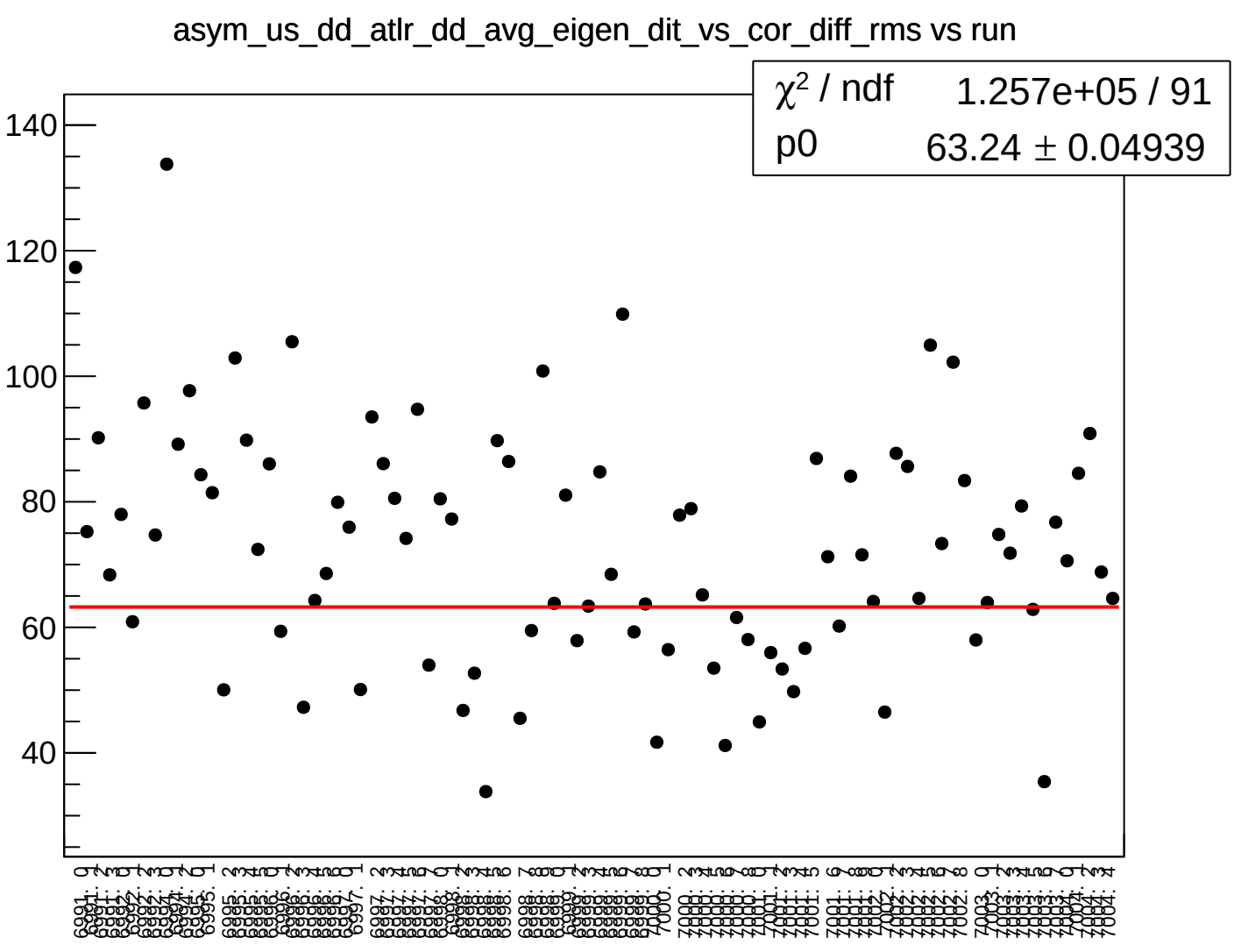

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 91
p0 63.23 ± 0.04938
140
120
100
80
60
40

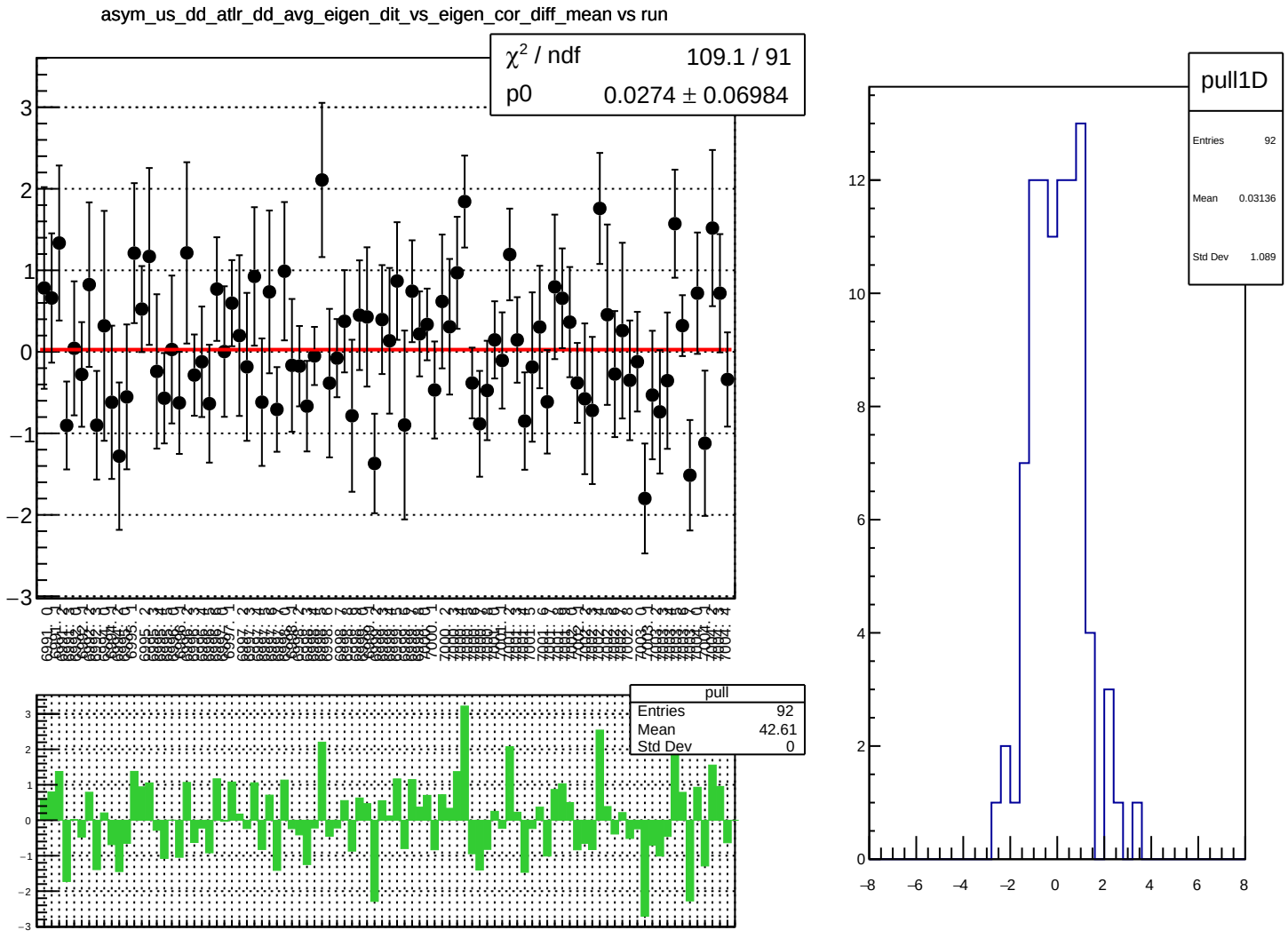

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 81.7 / 91
p0 2.908e−06 ± 5.171e−06
pull
Entries 92
Mean 39.86
Std Dev 0

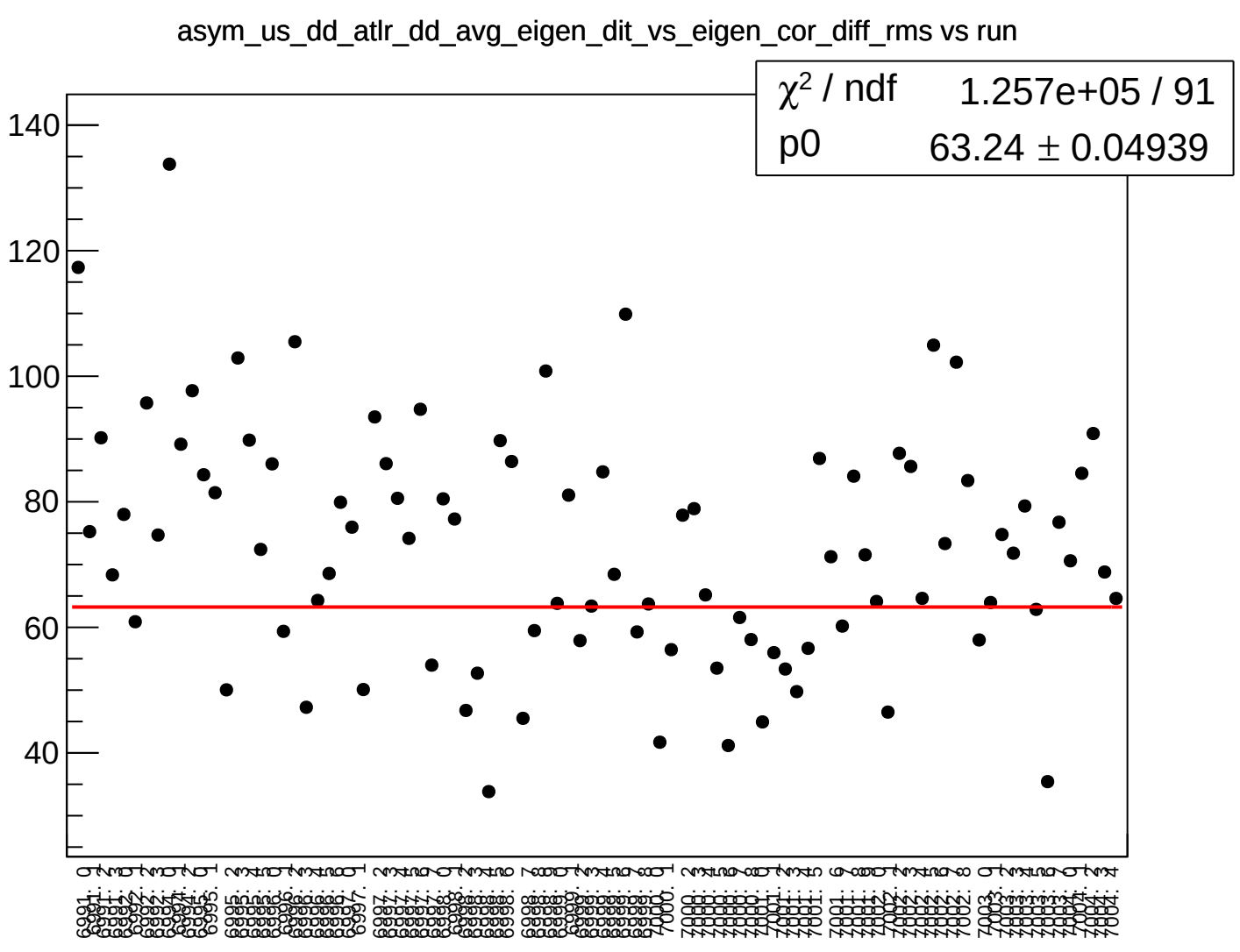

pull1D
Entries 92
Mean −0.08119
Std Dev 0.9389

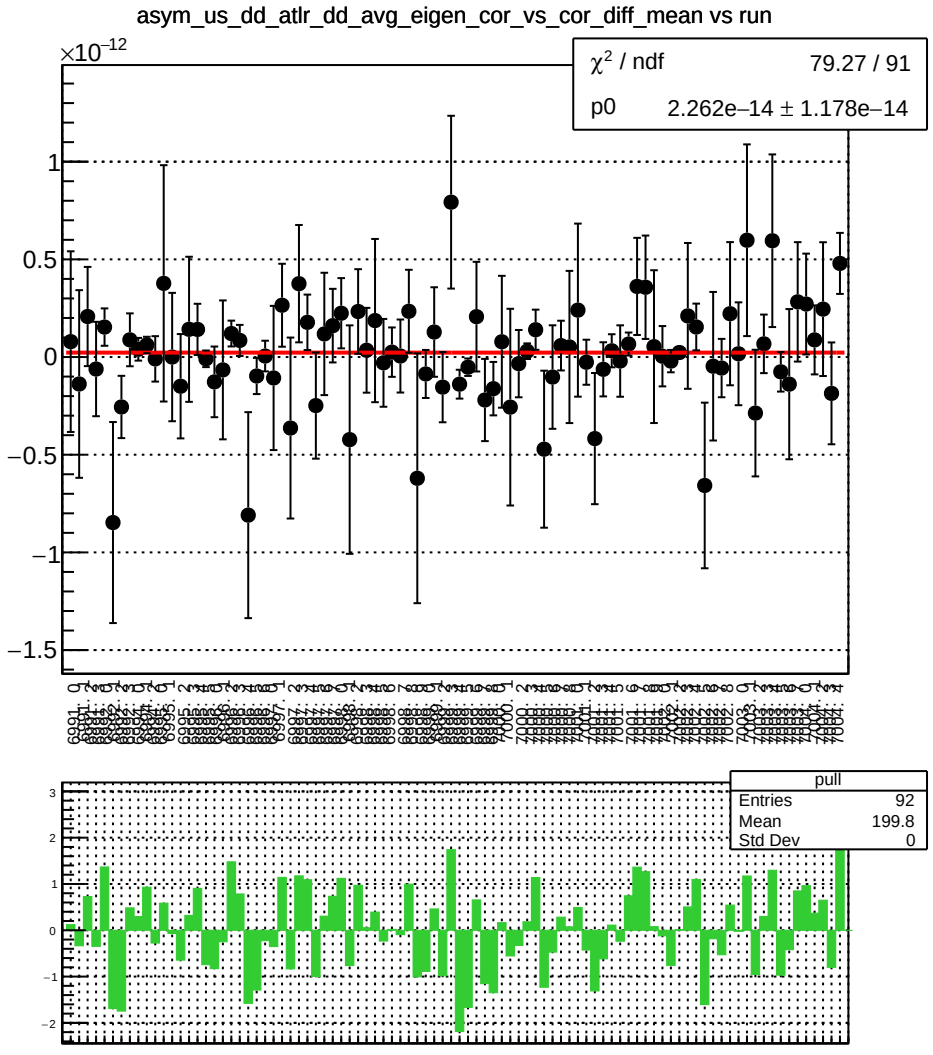

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.023e+05 / 91
p0 0.003397 ± 3.656e−06
0.012
0.01
0.008
0.006
0.004
0.002

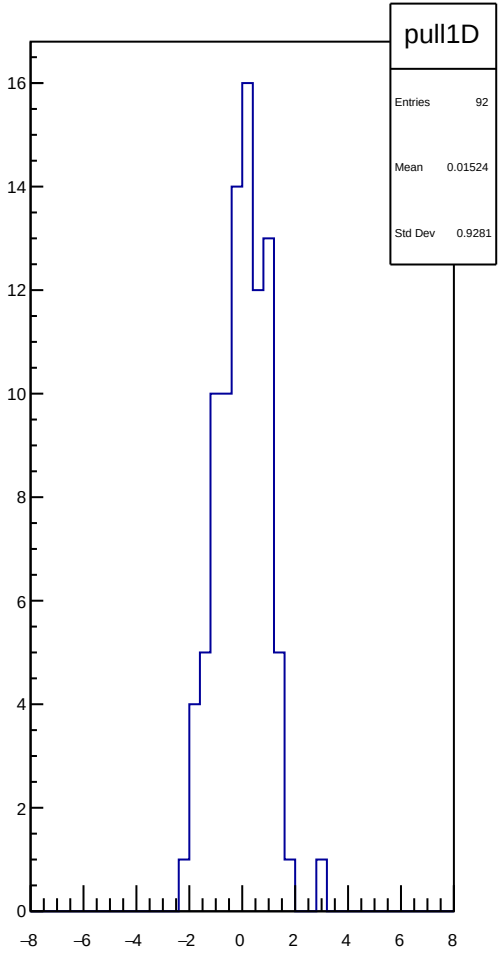

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 91
p0 0.0274 ± 0.06984
pull
Entries 92
Mean 42.61
Std Dev 0
pull1D
Entries 92
Mean 0.03136
Std Dev 1.089

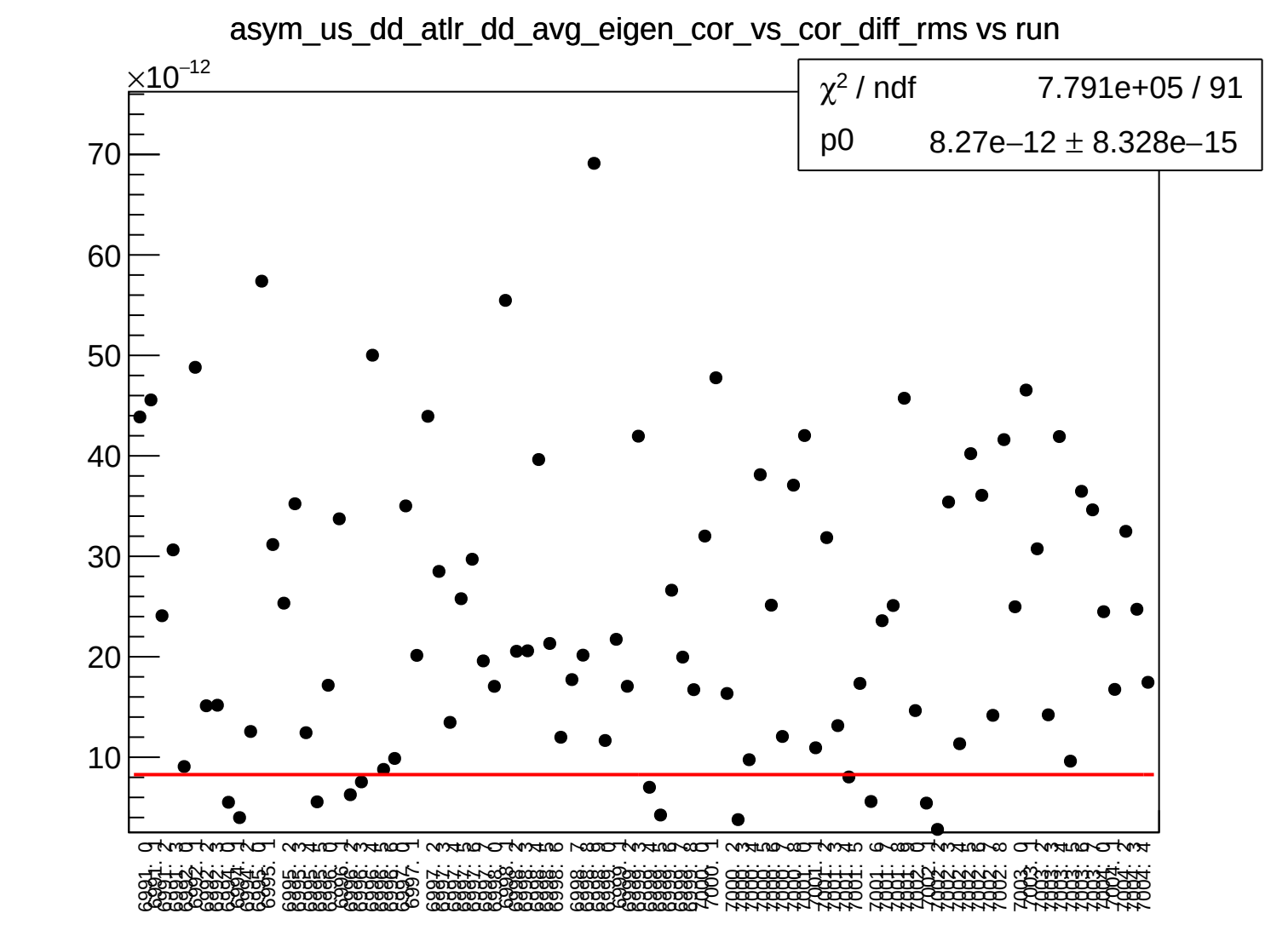

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 91
p0 63.24 ± 0.04939
140
120
100
80
60
40

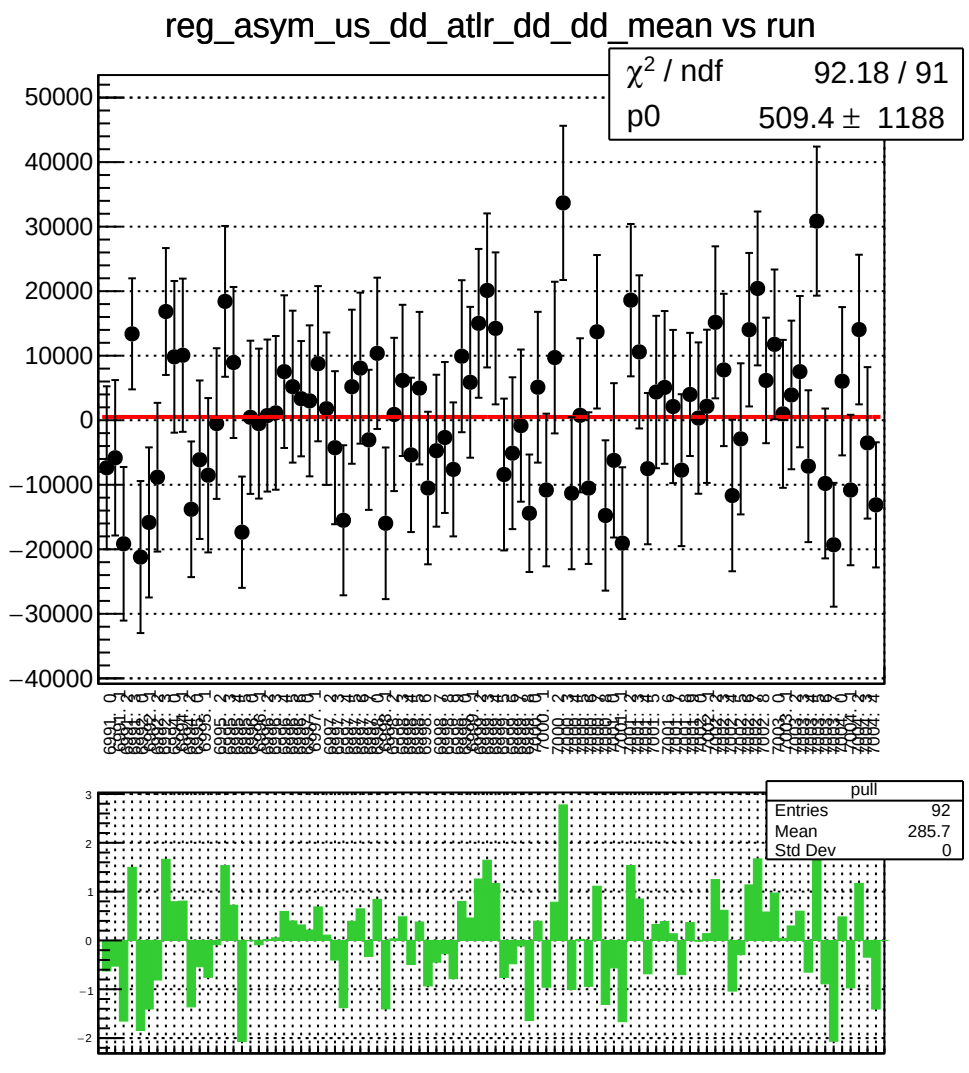

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.1 / 91
p0 0.0274 ± 0.06984
pull
Entries 92
Mean 42.61
Std Dev 0
pull1D
Entries 92
Mean 0.03136
Std Dev 1.089

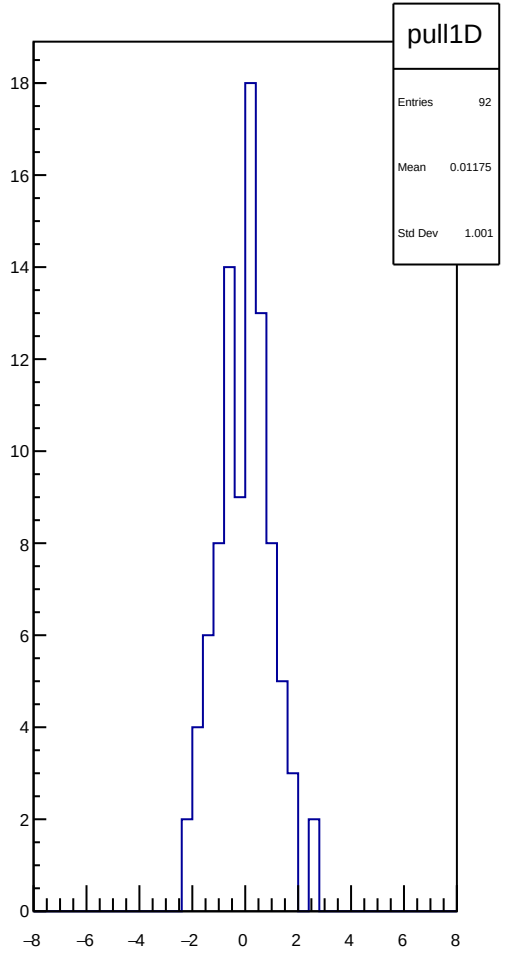

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 91
p0 63.24 ± 0.04939
140
120
100
80
60
40

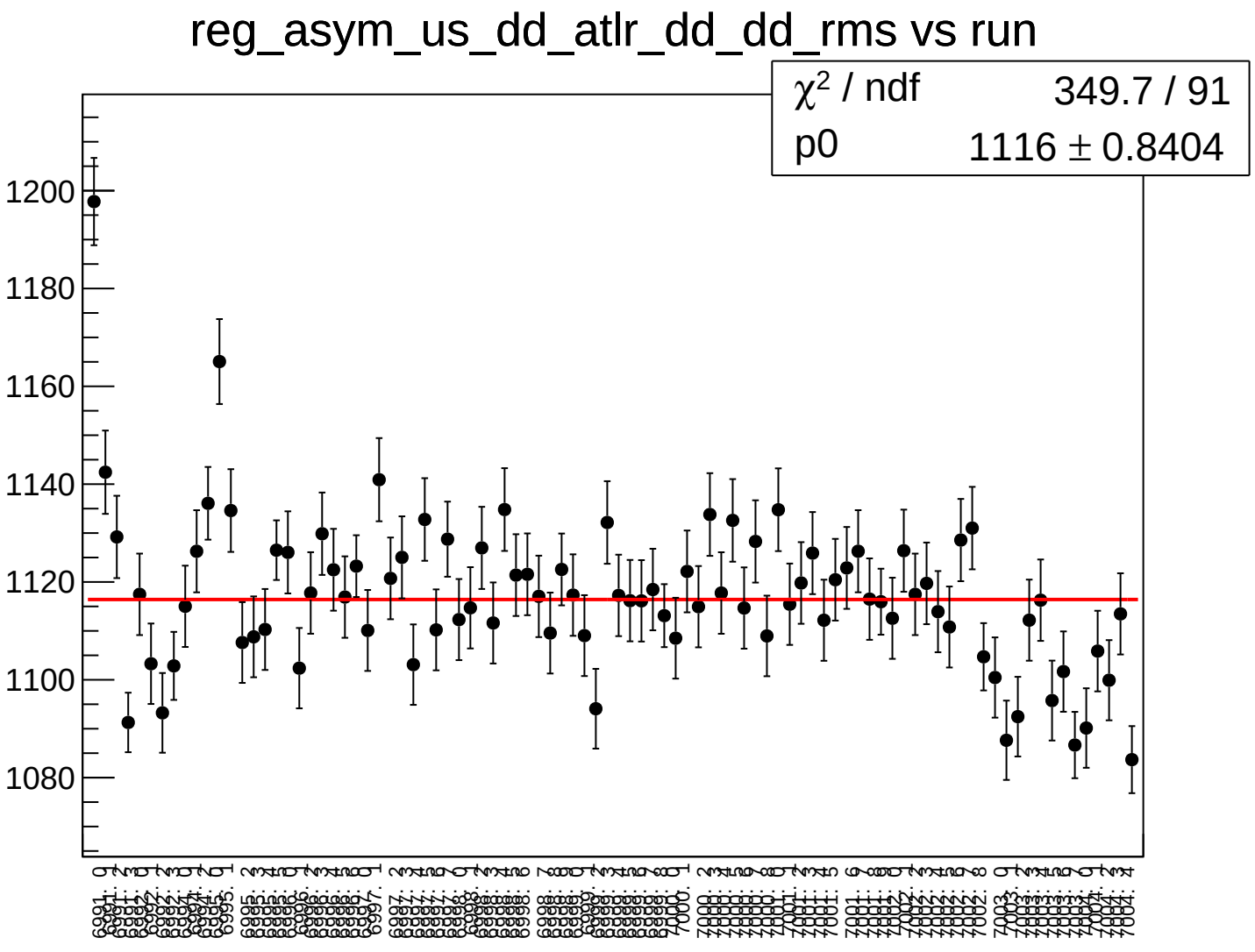

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 79.27 / 91
p0 2.262e−14 ± 1.178e−14
pull
Entries 92
Mean 199.8
Std Dev 0

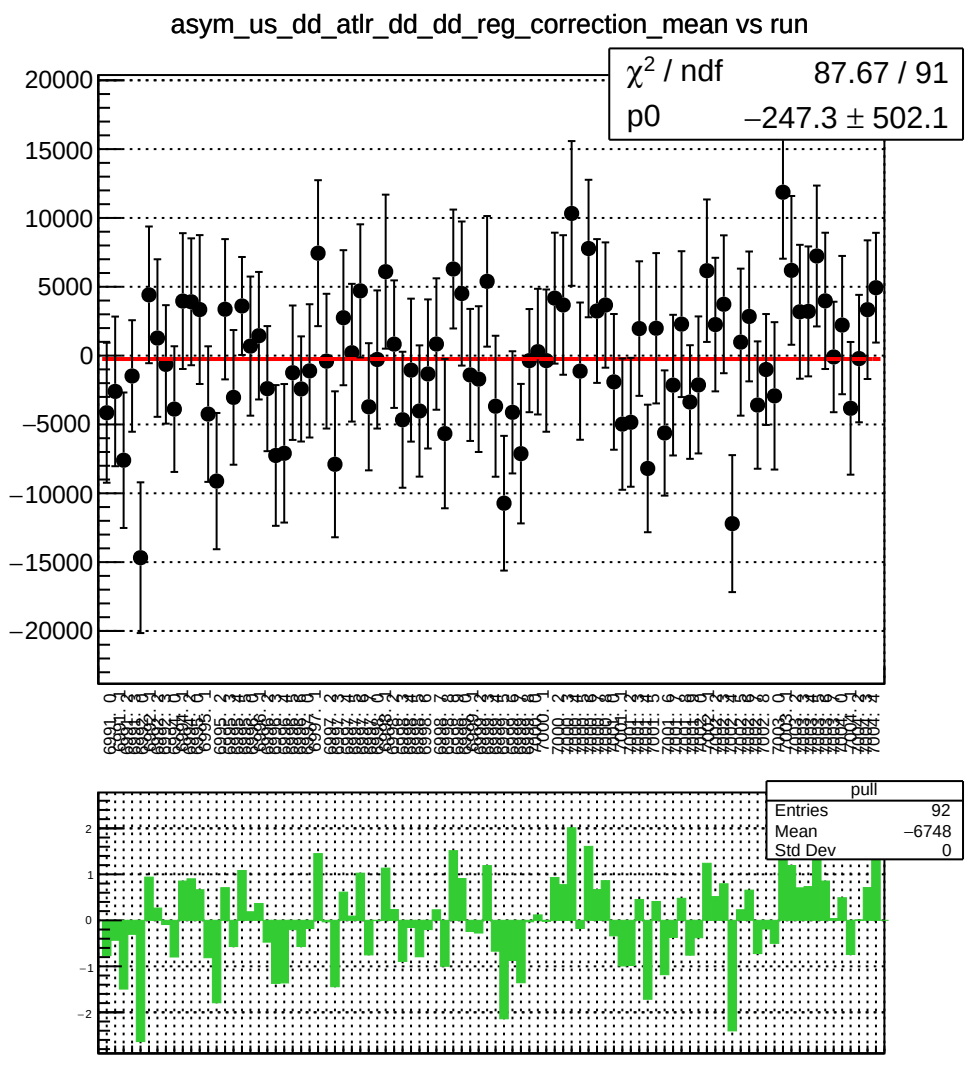

pull1D
Entries 92
Mean 0.01524
Std Dev 0.9281

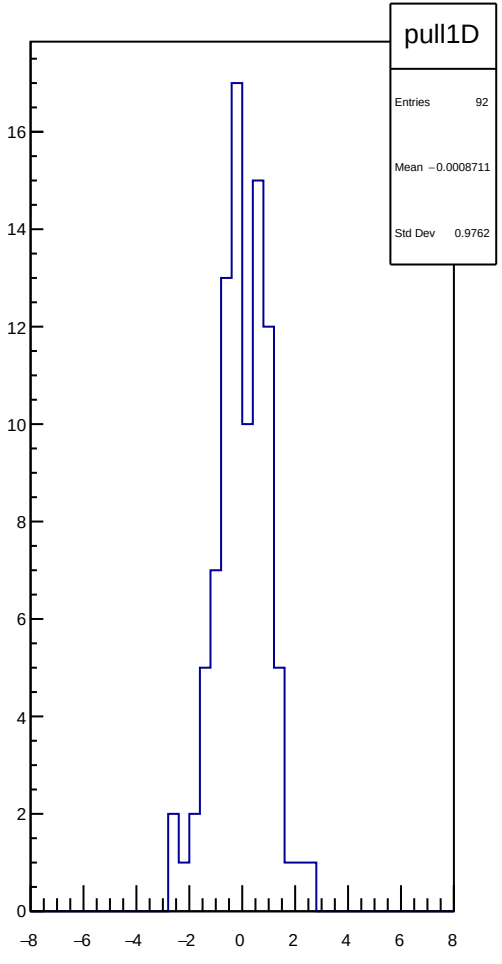

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.791e+05 / 91
p0 8.27e−12 ± 8.328e−15
70
60
50
40
30
20
10

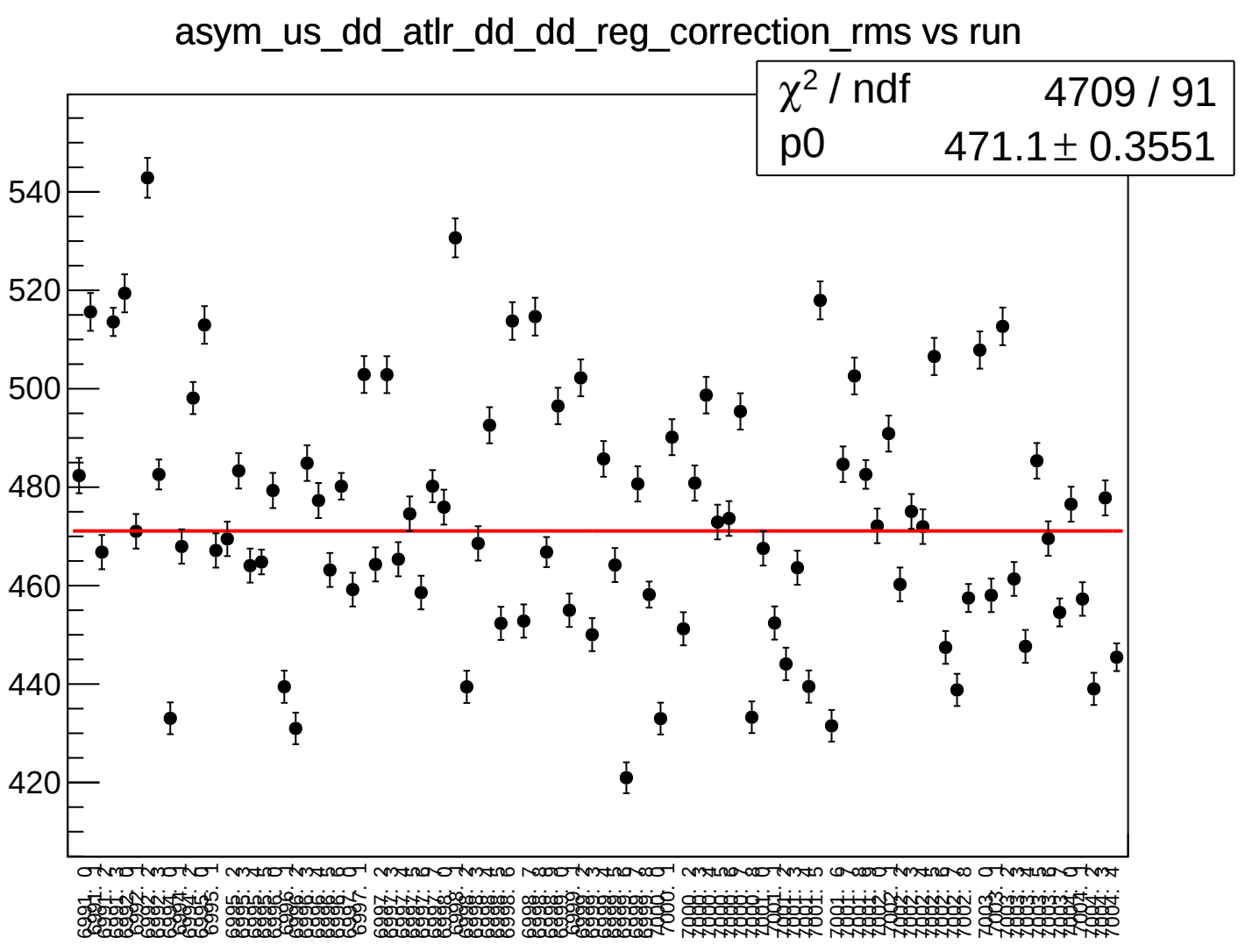

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 92.18 / 91
p0 509.4 ± 1188
pull
Entries 92
Mean 285.7
Std Dev 0

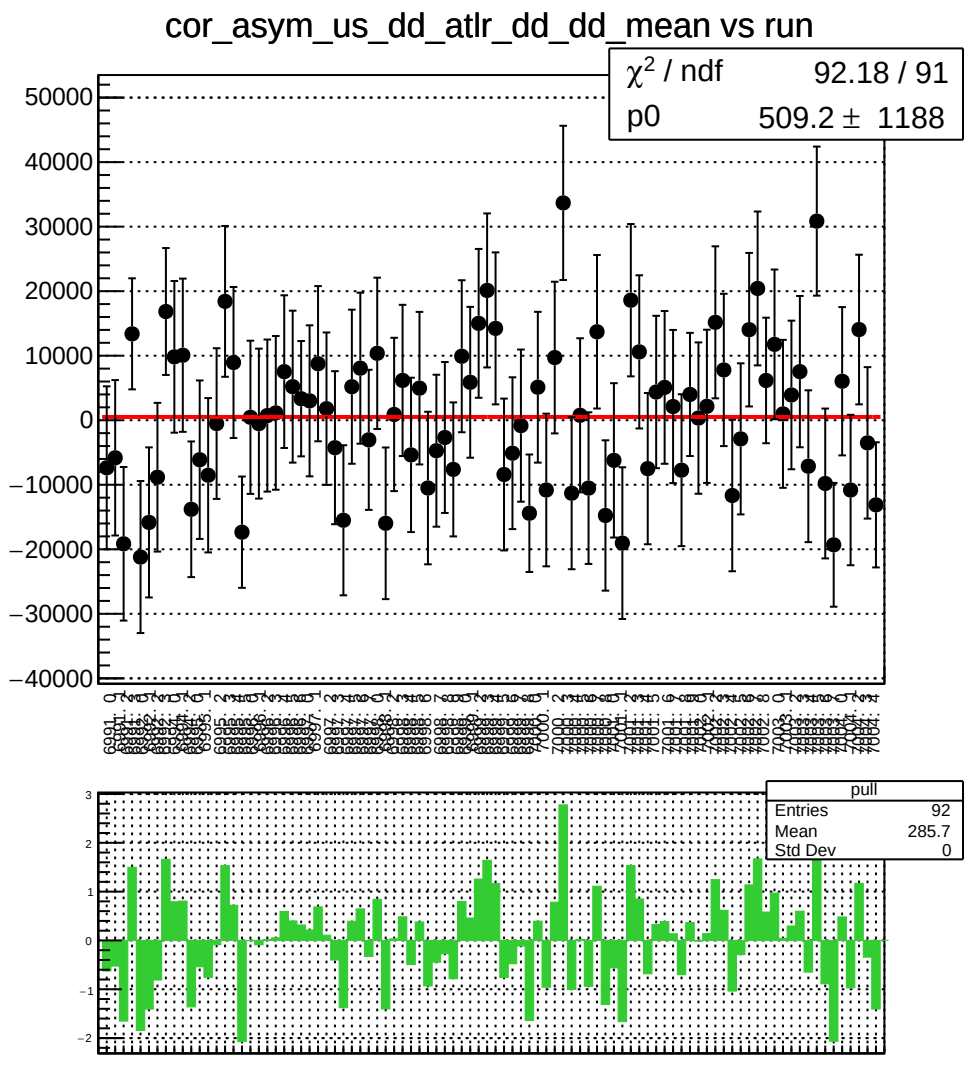

pull1D
Entries 92
Mean 0.01175
Std Dev 1.001

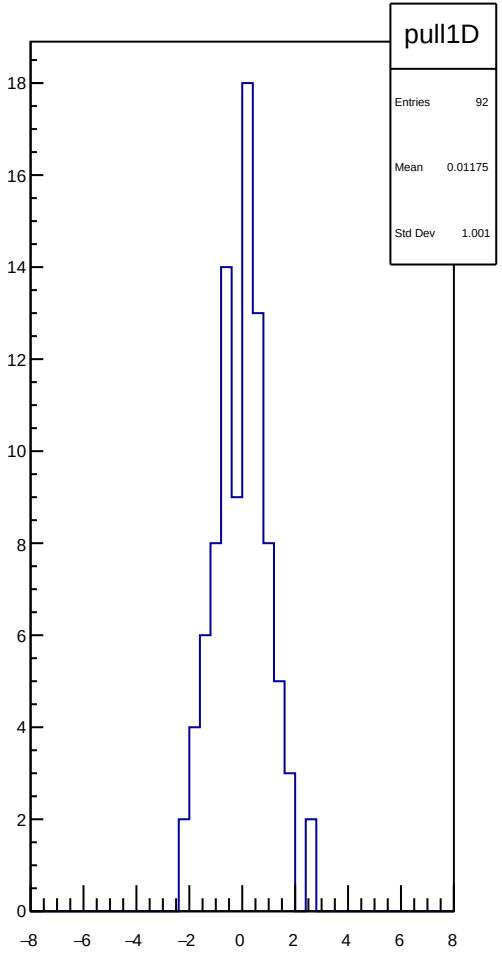

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 349.7 / 91
p0 1116 ± 0.8404
1200
1180
1160
1140
1120
1100
1080

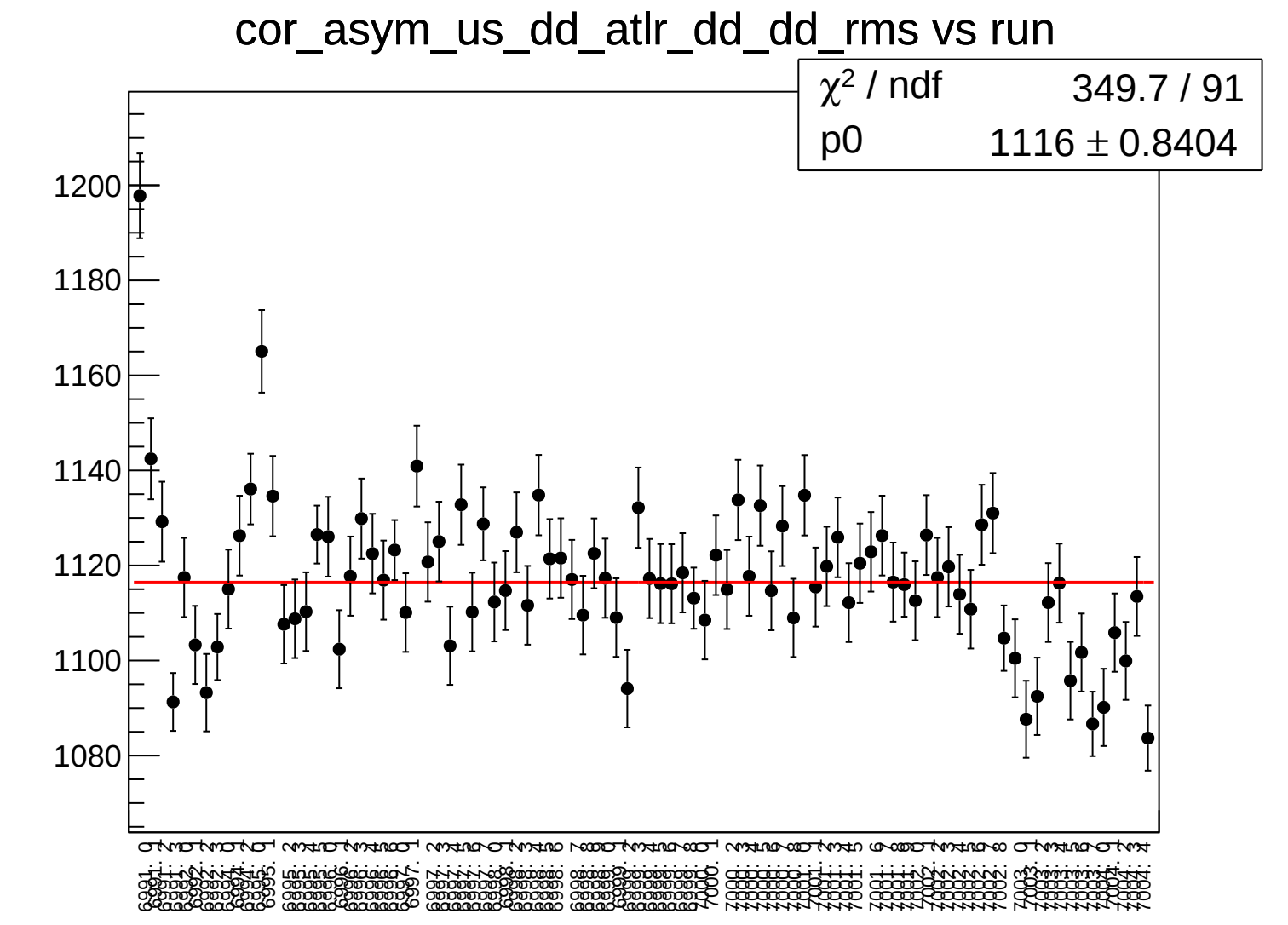

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 87.67 / 91
p0 −247.3 ± 502.1
pull
Entries 92
Mean −6748
Std Dev 0

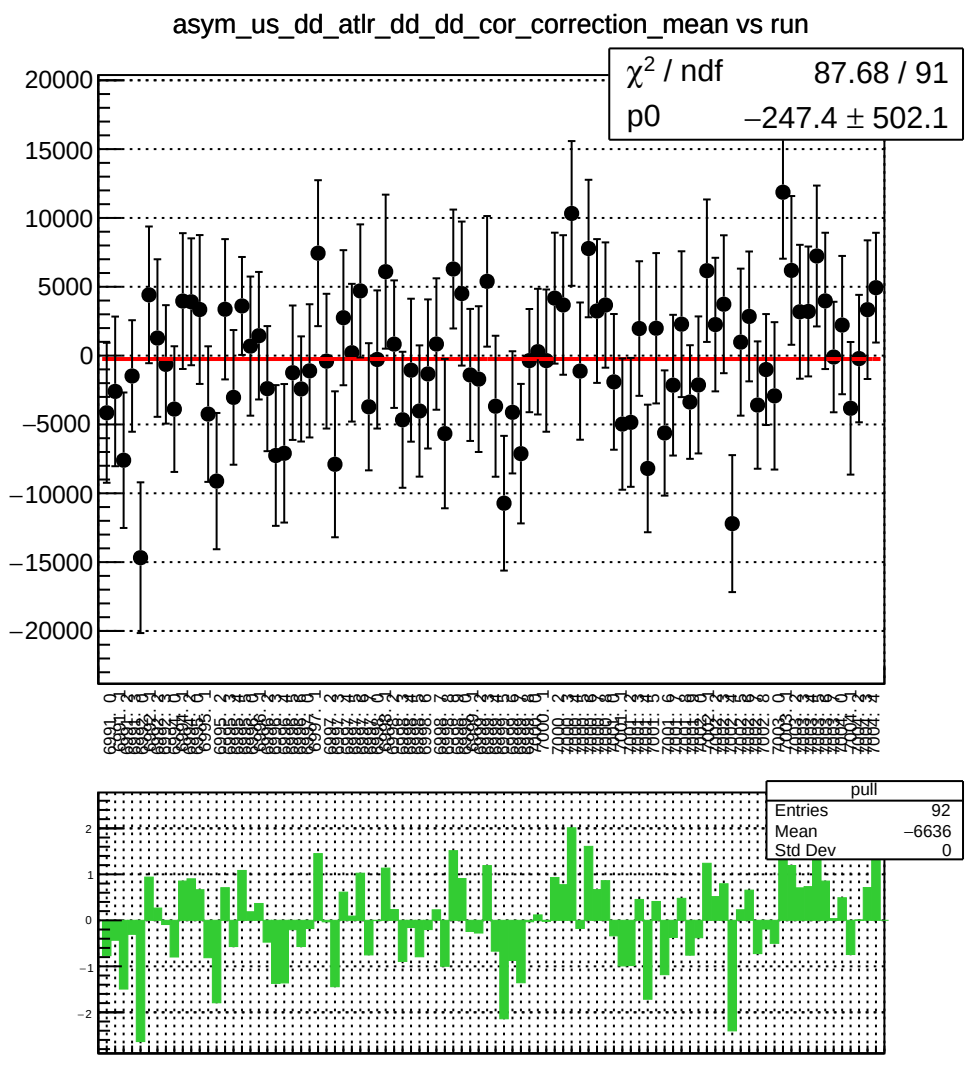

pull1D
Entries 92
Mean −0.0008711
Std Dev 0.9762

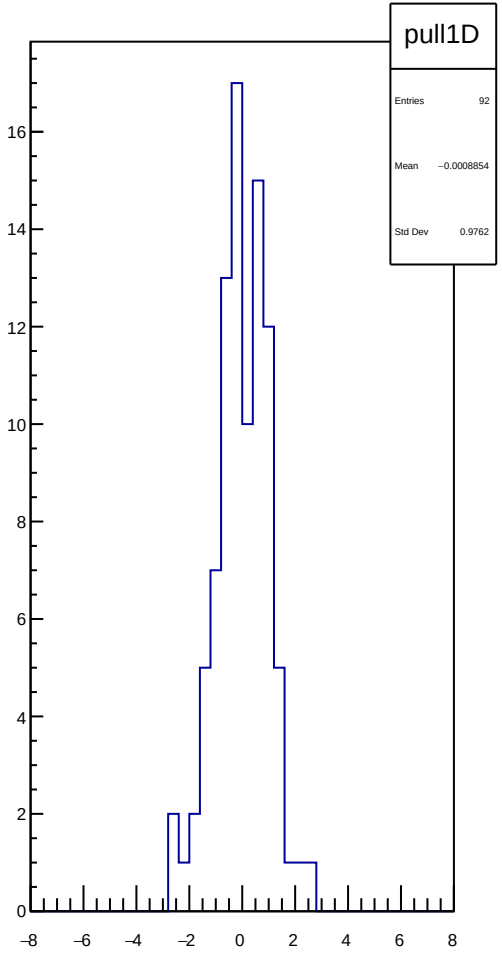

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ^2 / ndf 4709 / 91
p0 471.1 ± 0.3551
540
520
500
480
460
440
420

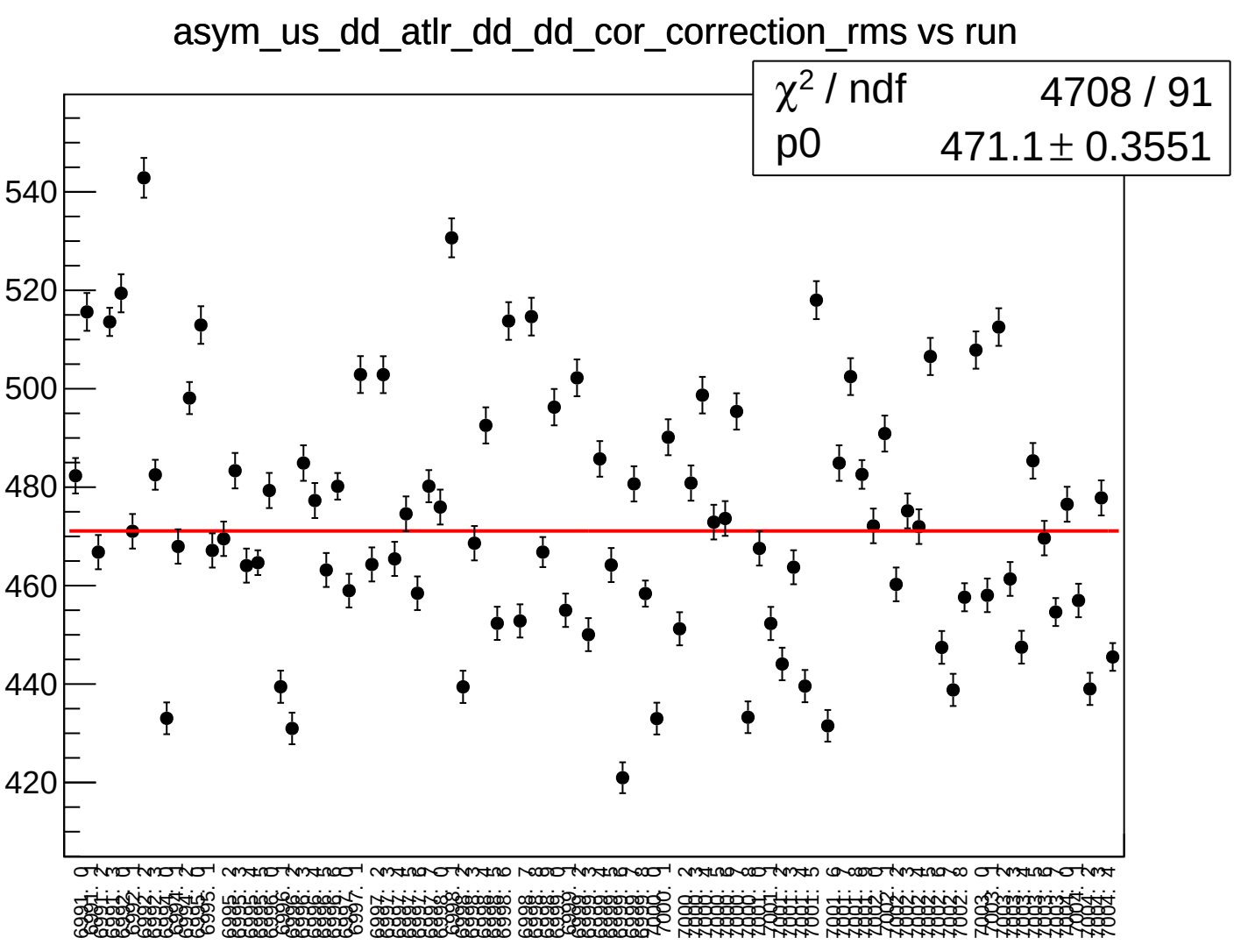

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 92.18 / 91
p0 509.2 ± 1188
pull
Entries 92
Mean 285.7
Std Dev 0

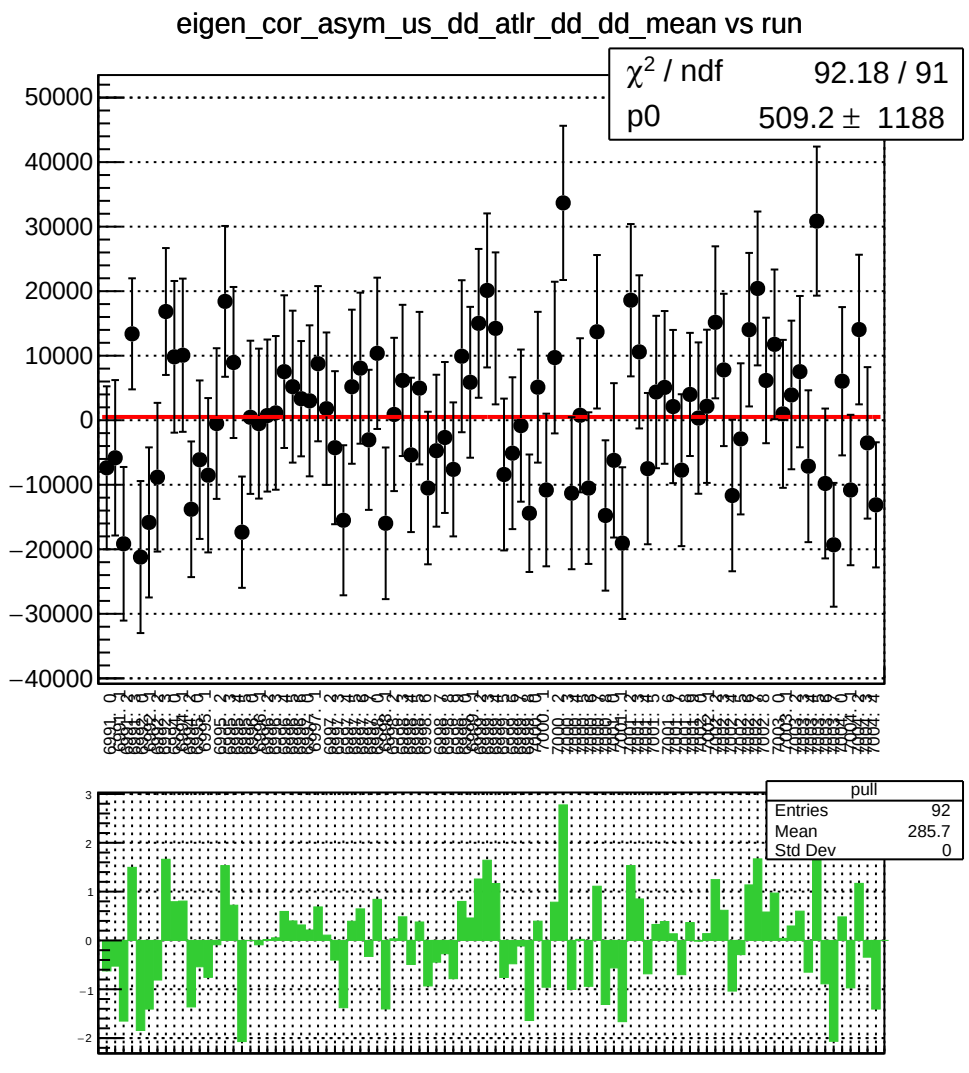

pull1D
Entries 92
Mean 0.01175
Std Dev 1.001

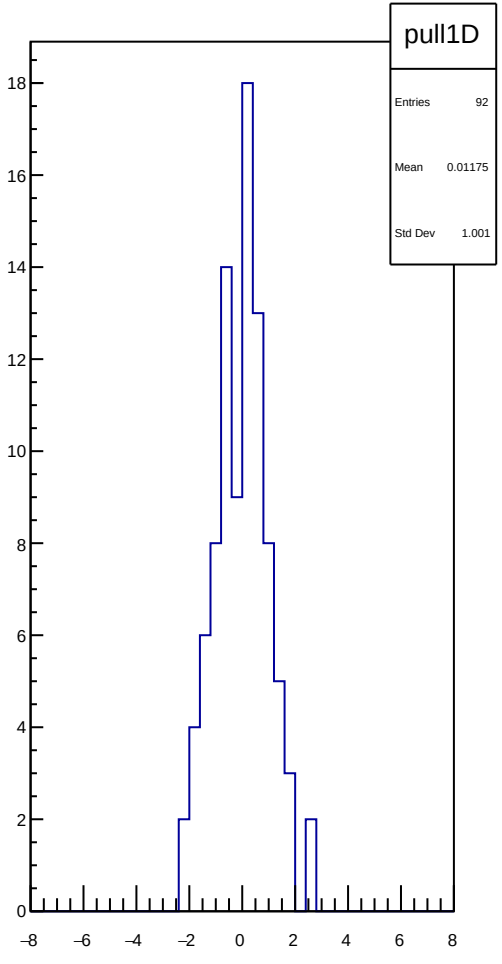

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 349.7 / 91
p0 1116 ± 0.8404
1200
1180
1160
1140
1120
1100
1080

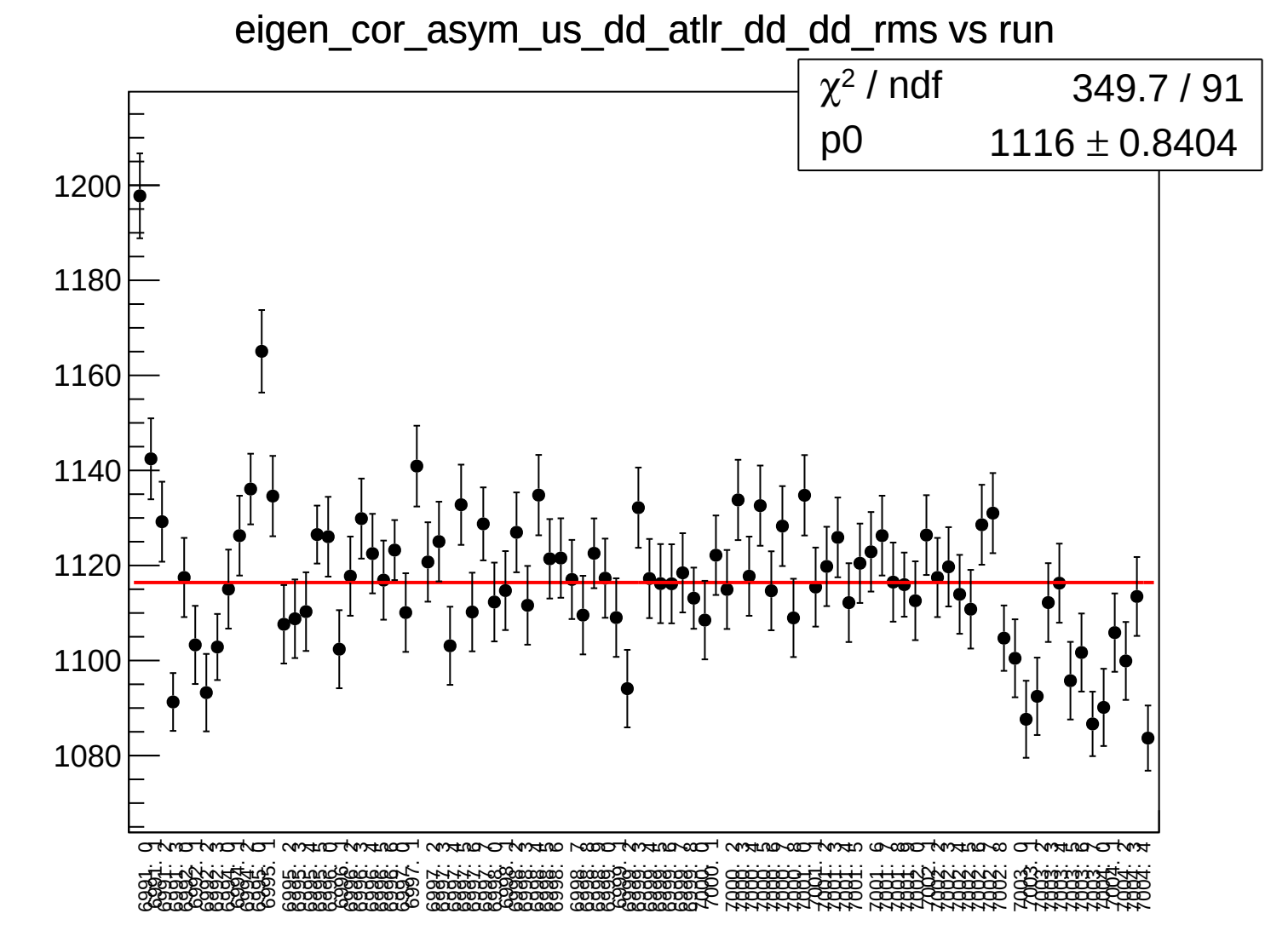

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 87.68 / 91
p0 −247.4 ± 502.1
pull
Entries 92
Mean −6636
Std Dev 0

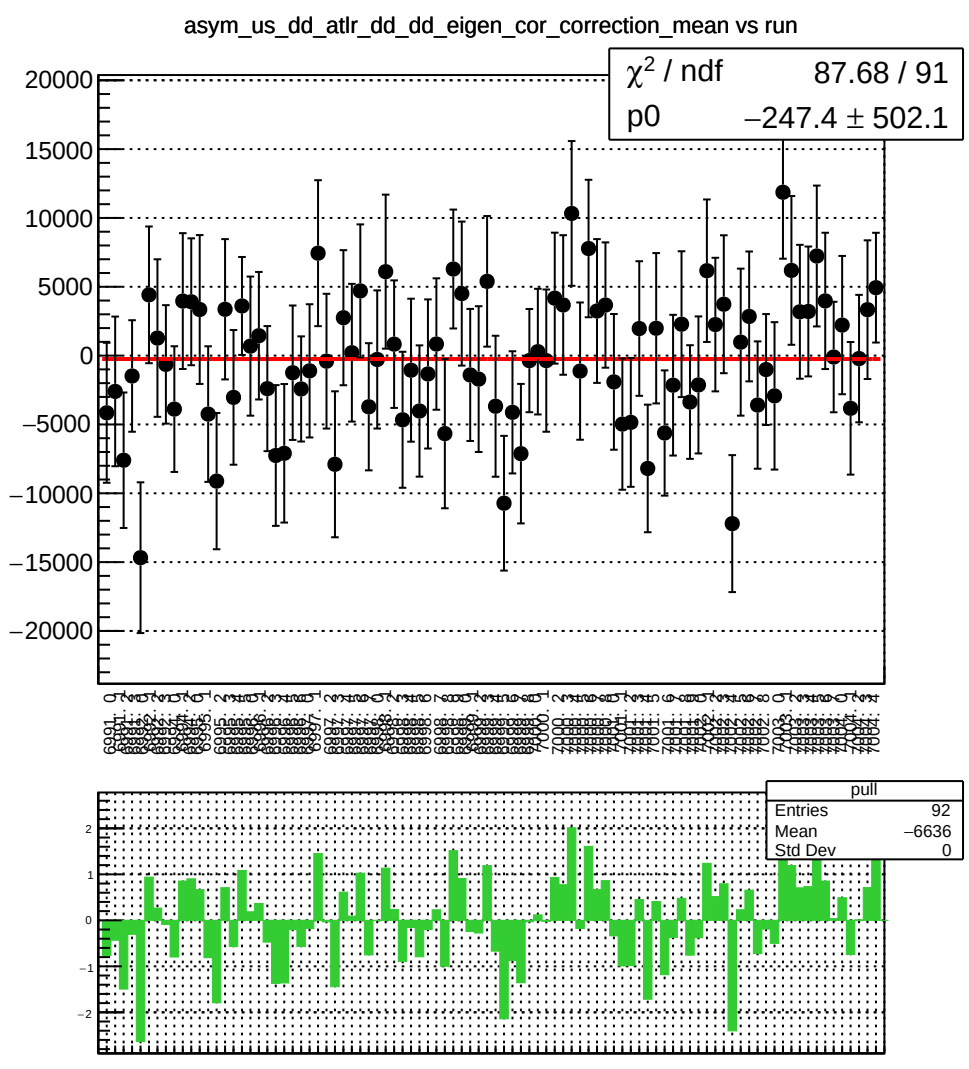

pull1D
Entries 92
Mean −0.0008854
Std Dev 0.9762

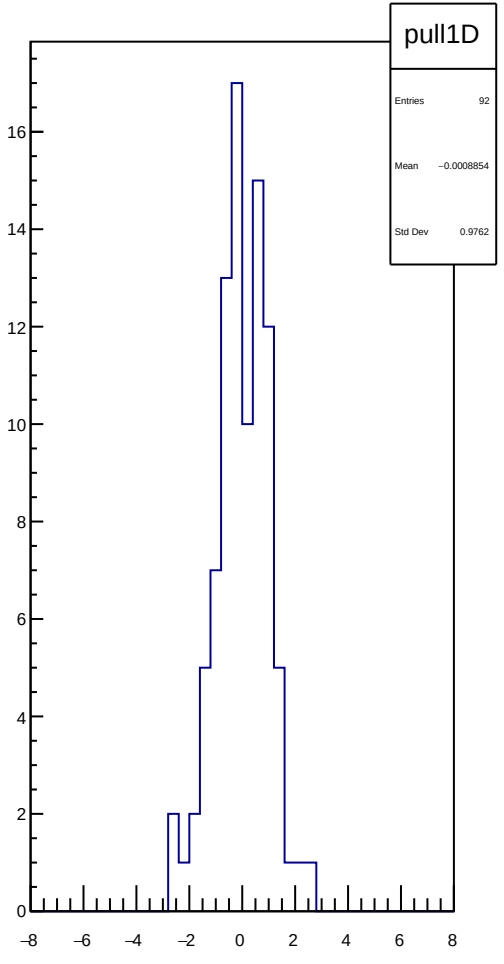

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 4708 / 91
p0 471.1 ± 0.3551
540
520
500
480
460
440
420

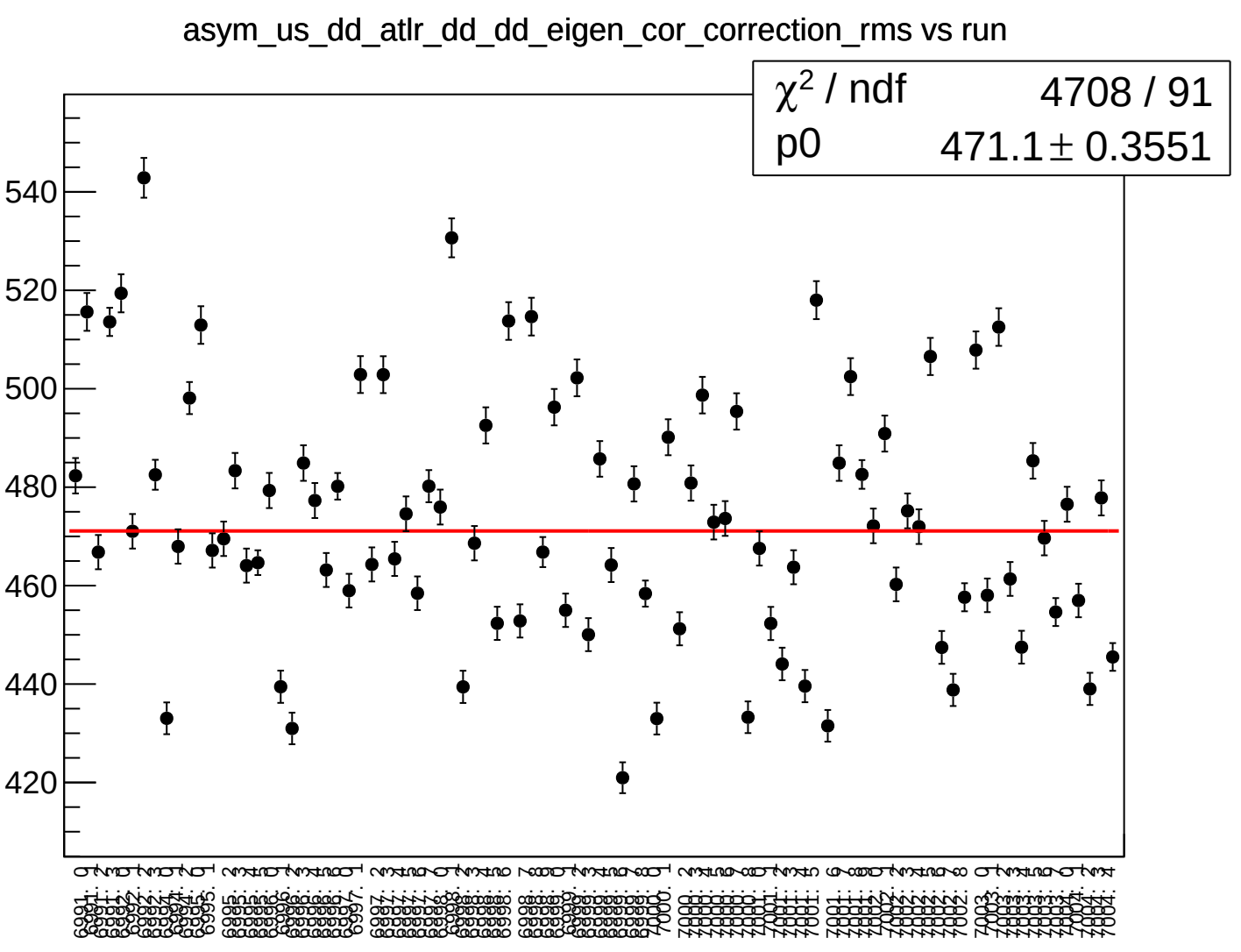

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 92.18 / 91
p0 509.2 ± 1188
pull
Entries 92
Mean 285.7
Std Dev 0

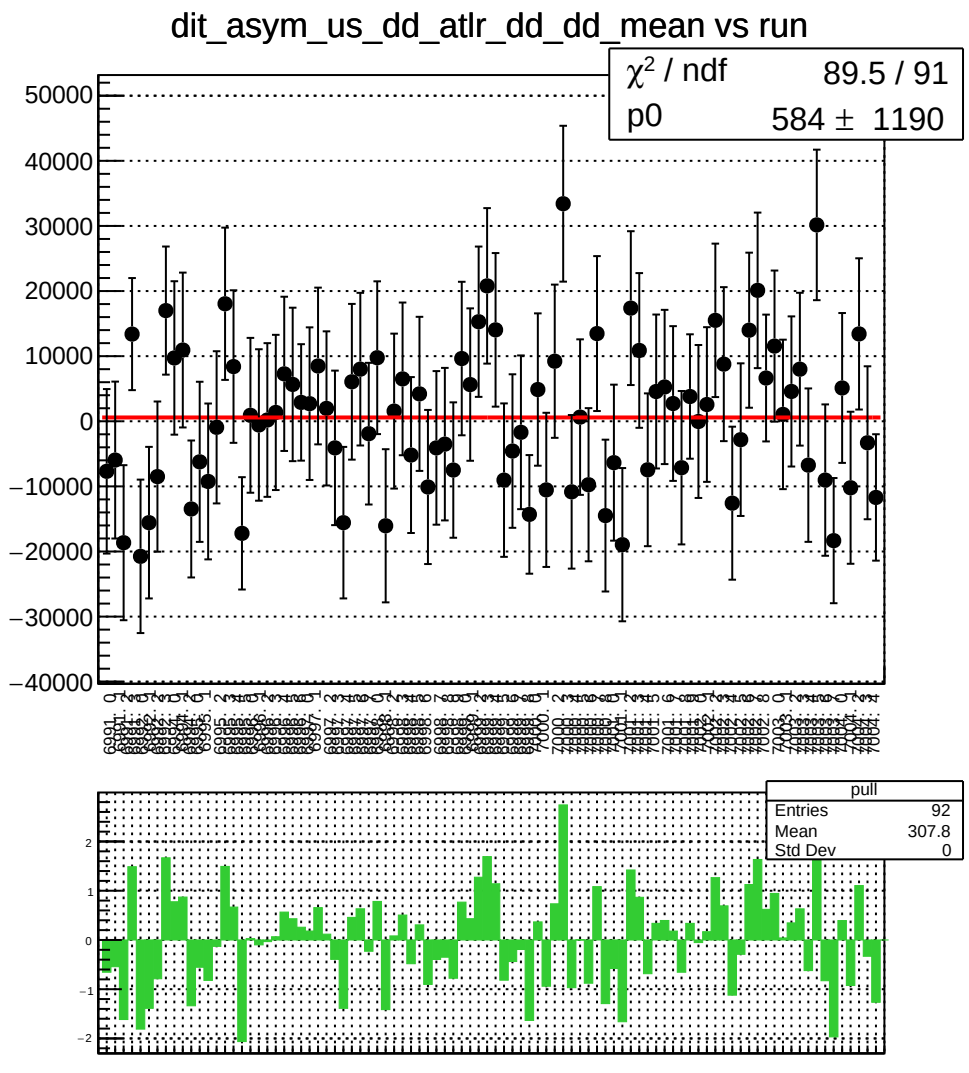

pull1D
Entries 92
Mean 0.01175
Std Dev 1.001

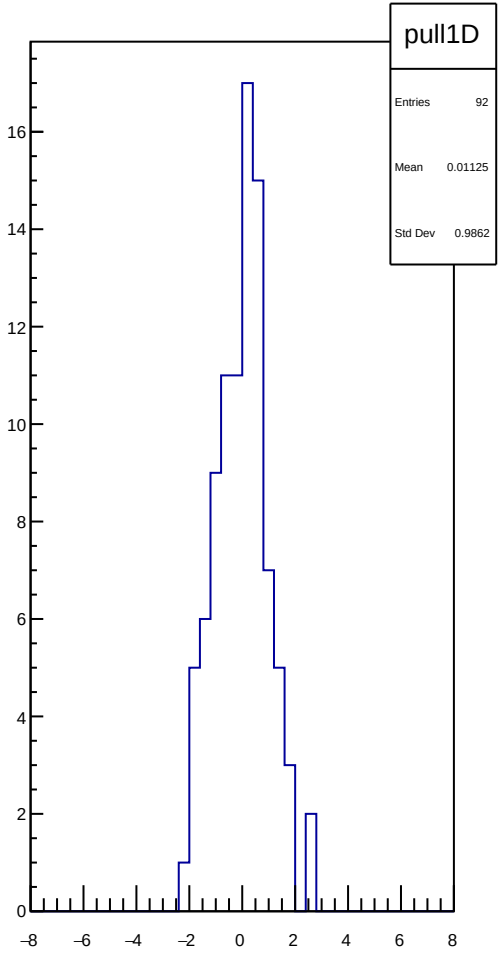

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 349.7 / 91
p0 1116 ± 0.8404
1200
1180
1160
1140
1120
1100
1080

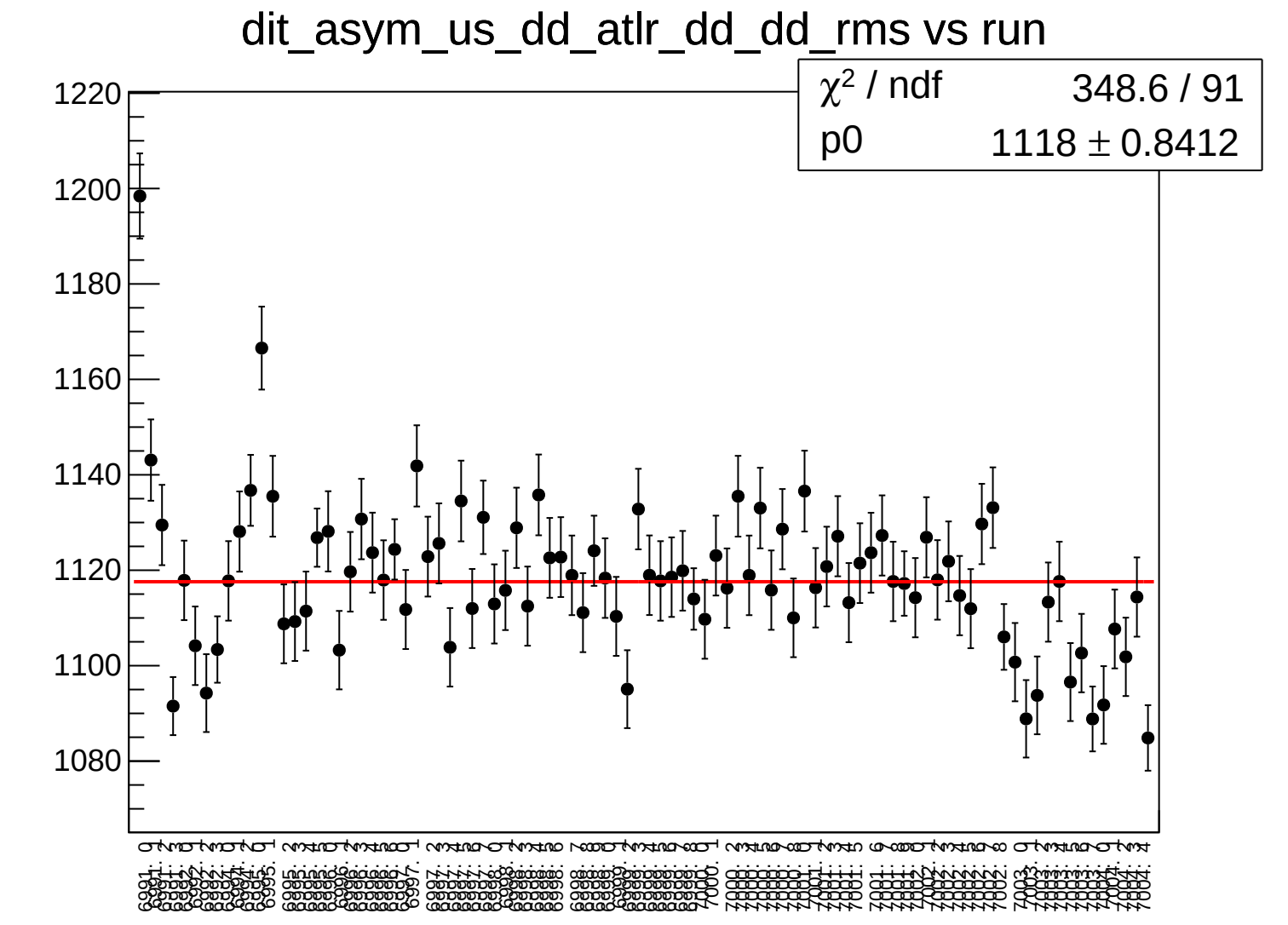

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.68 / 91
p0 −247.4 ± 502.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −6636
Std Dev 0
2
1
0
−1
−2

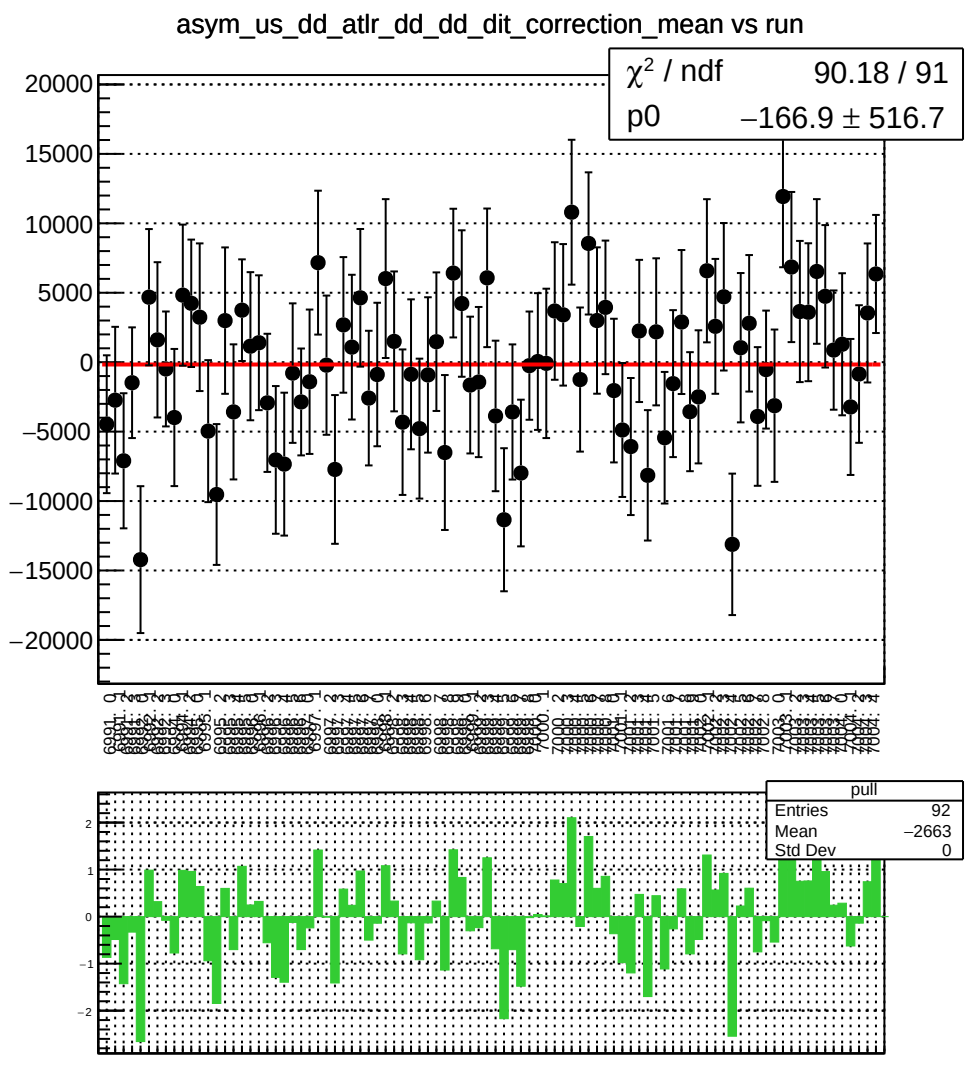

pull1D
Entries 92
Mean −0.0008854
Std Dev 0.9762
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

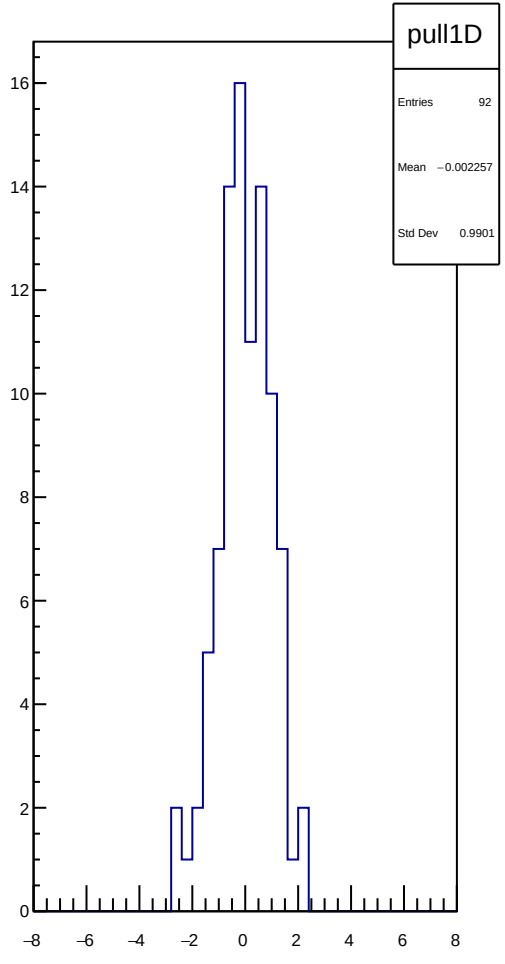

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4708 / 91
p0 471.1 ± 0.3551
540
520
500
480
460
440
420

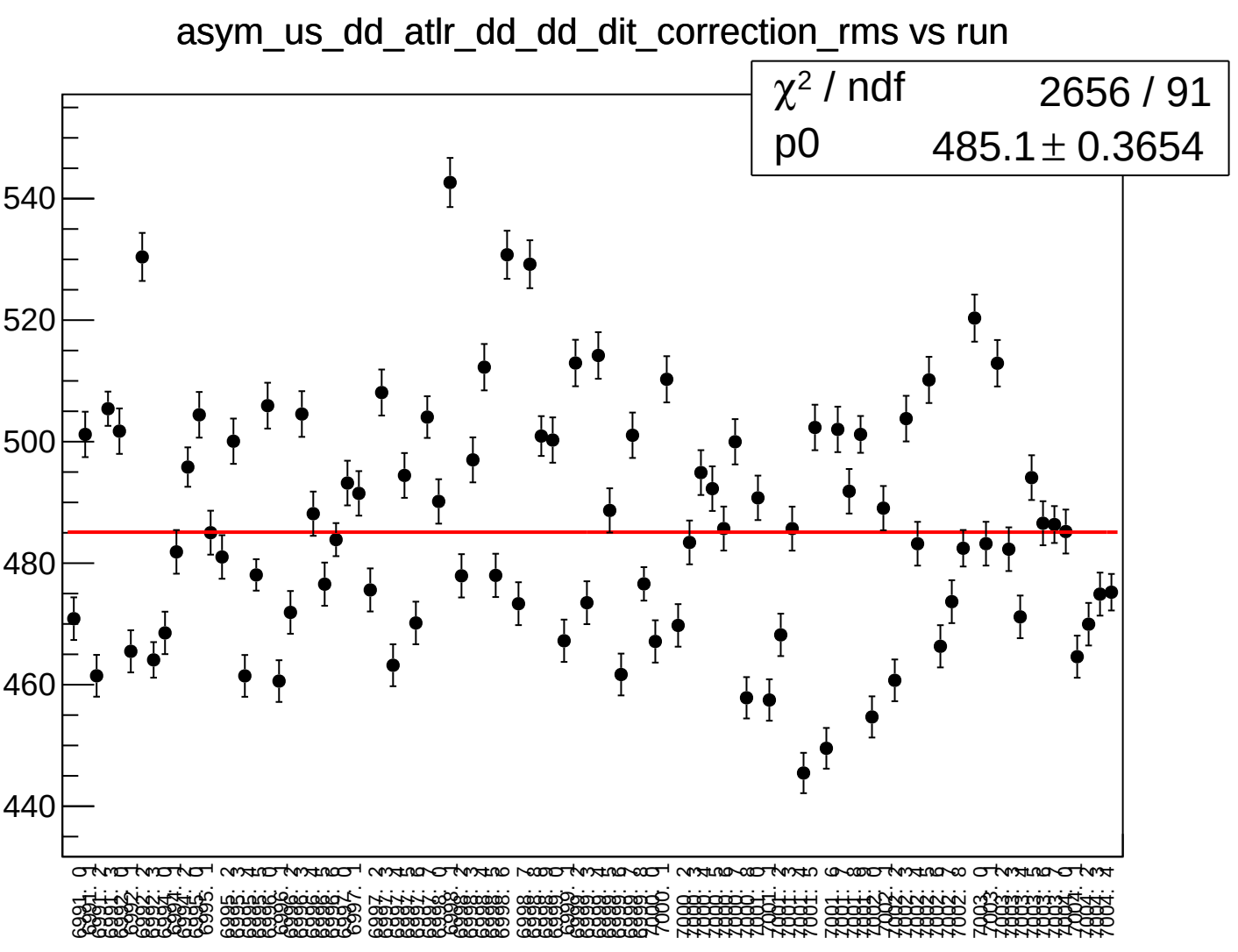

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89.5 / 91
p0 584 ± 1190
pull
Entries 92
Mean 307.8
Std Dev 0

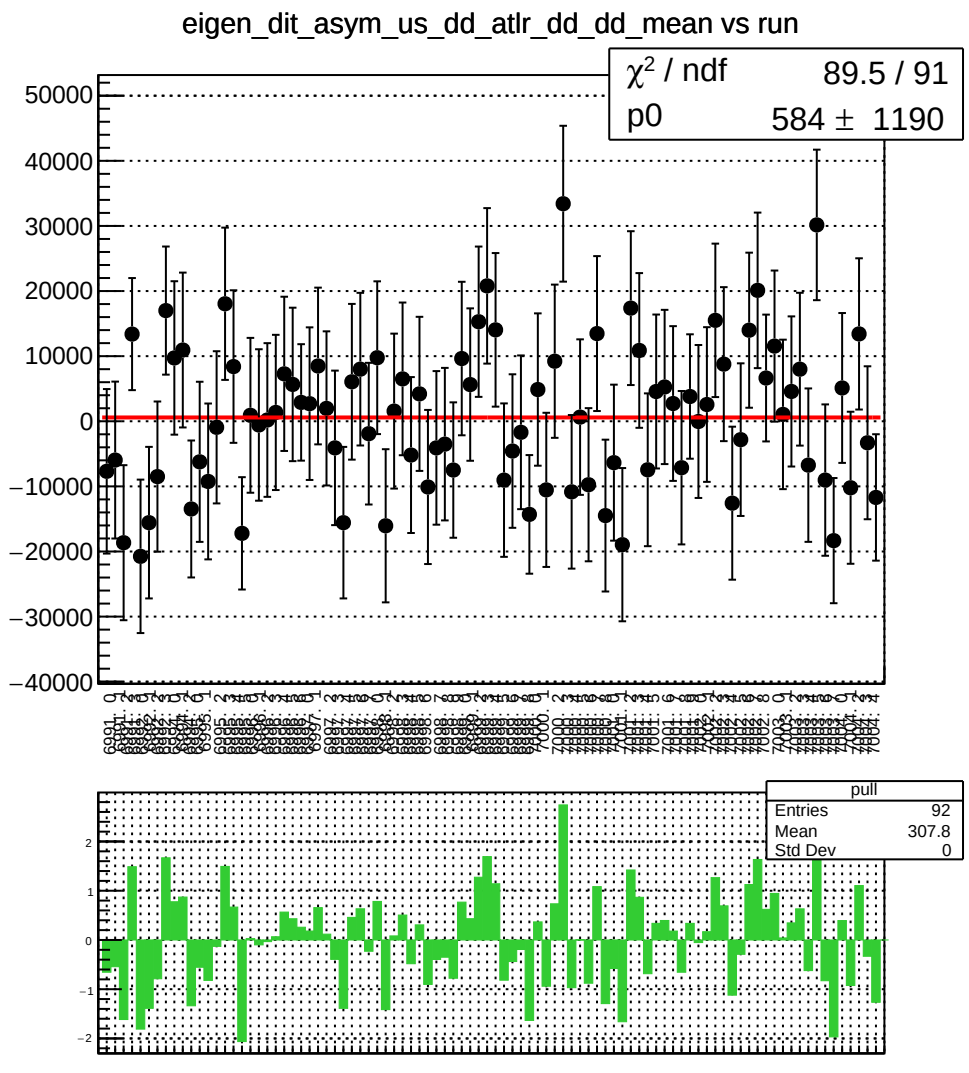

pull1D
Entries 92
Mean 0.01125
Std Dev 0.9862

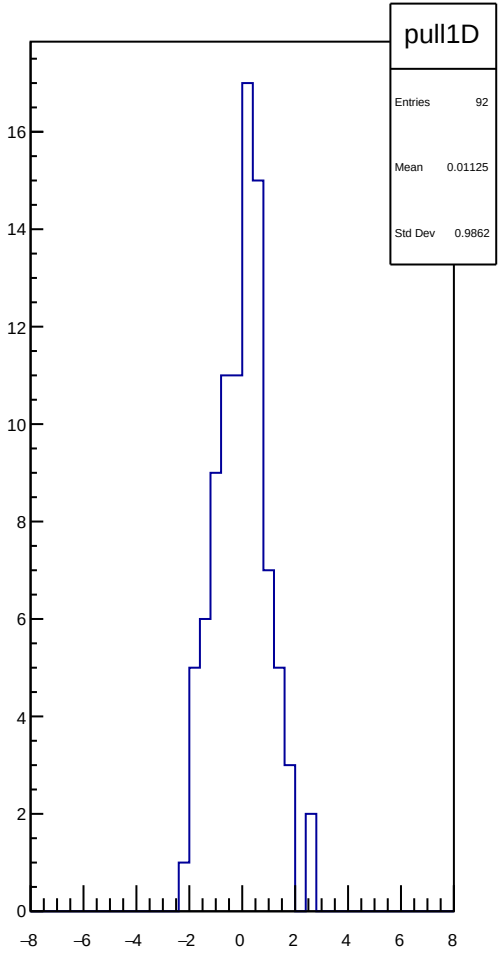

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 348.6 / 91
p0 1118 ± 0.8412
1220
1200
1180
1160
1140
1120
1100
1080

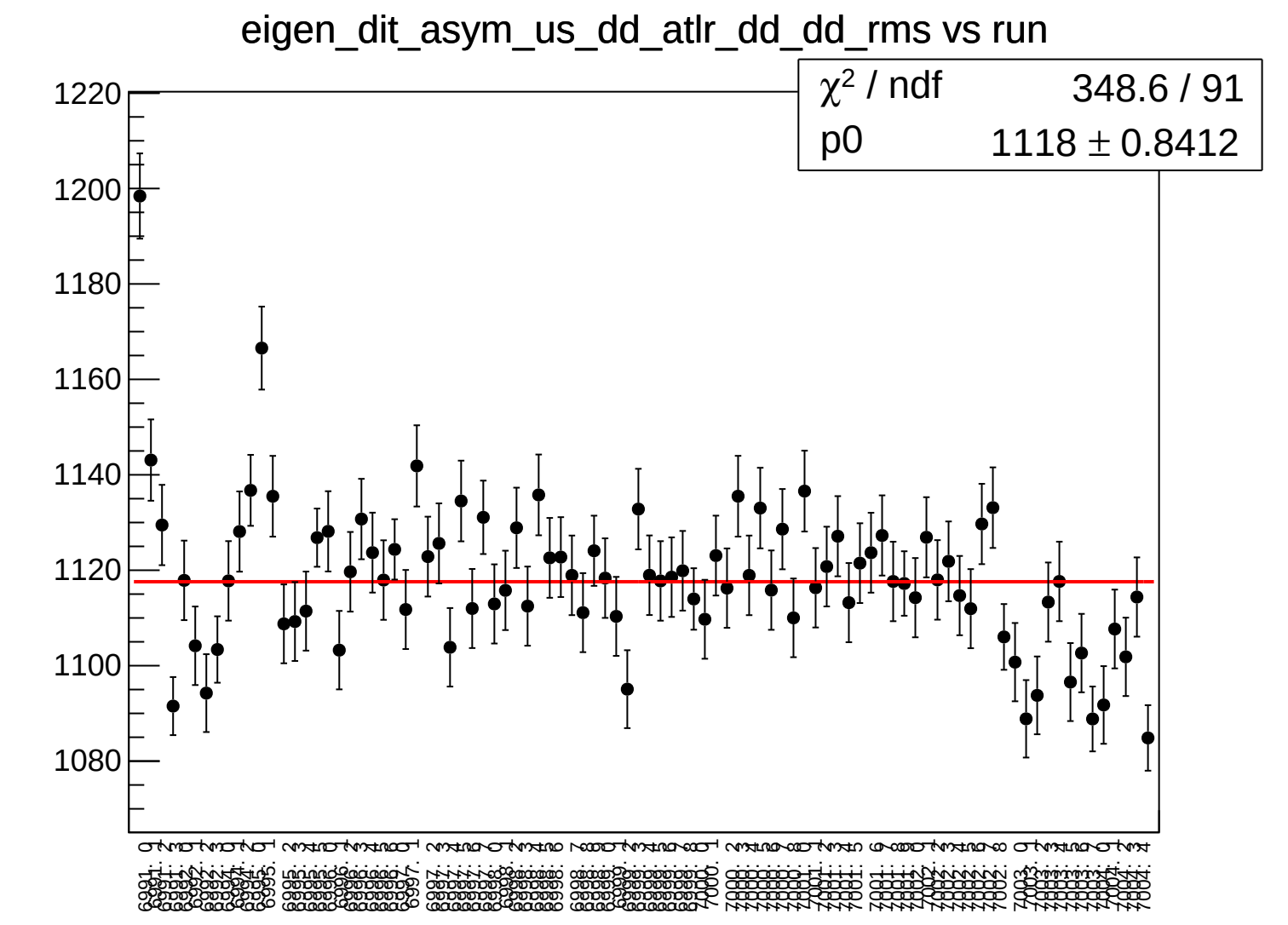

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 90.18 / 91
p0 −166.9 ± 516.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −2663
Std Dev 0
2
1
0
−1
−2

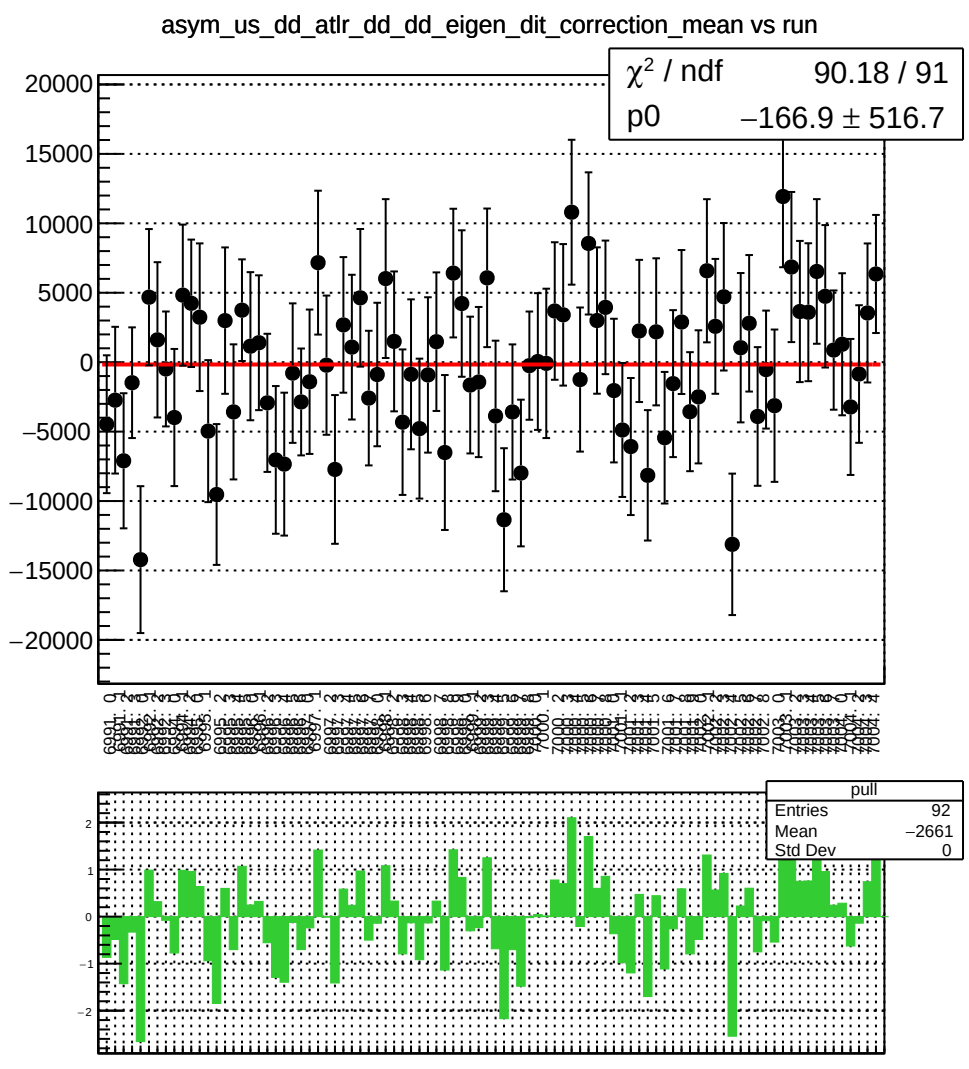

pull1D
Entries 92
Mean −0.002257
Std Dev 0.9901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

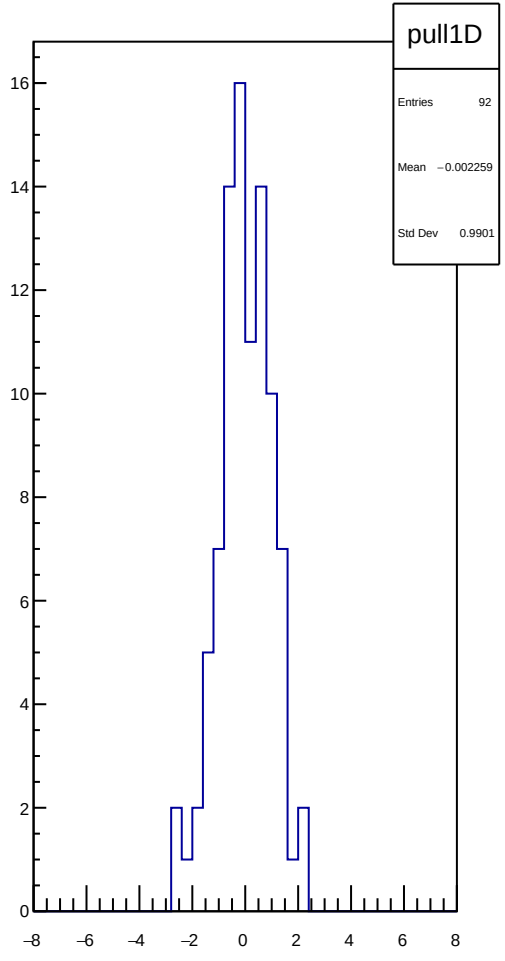

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 2656 / 91
p0 485.1 ± 0.3654
540
520
500
480
460
440

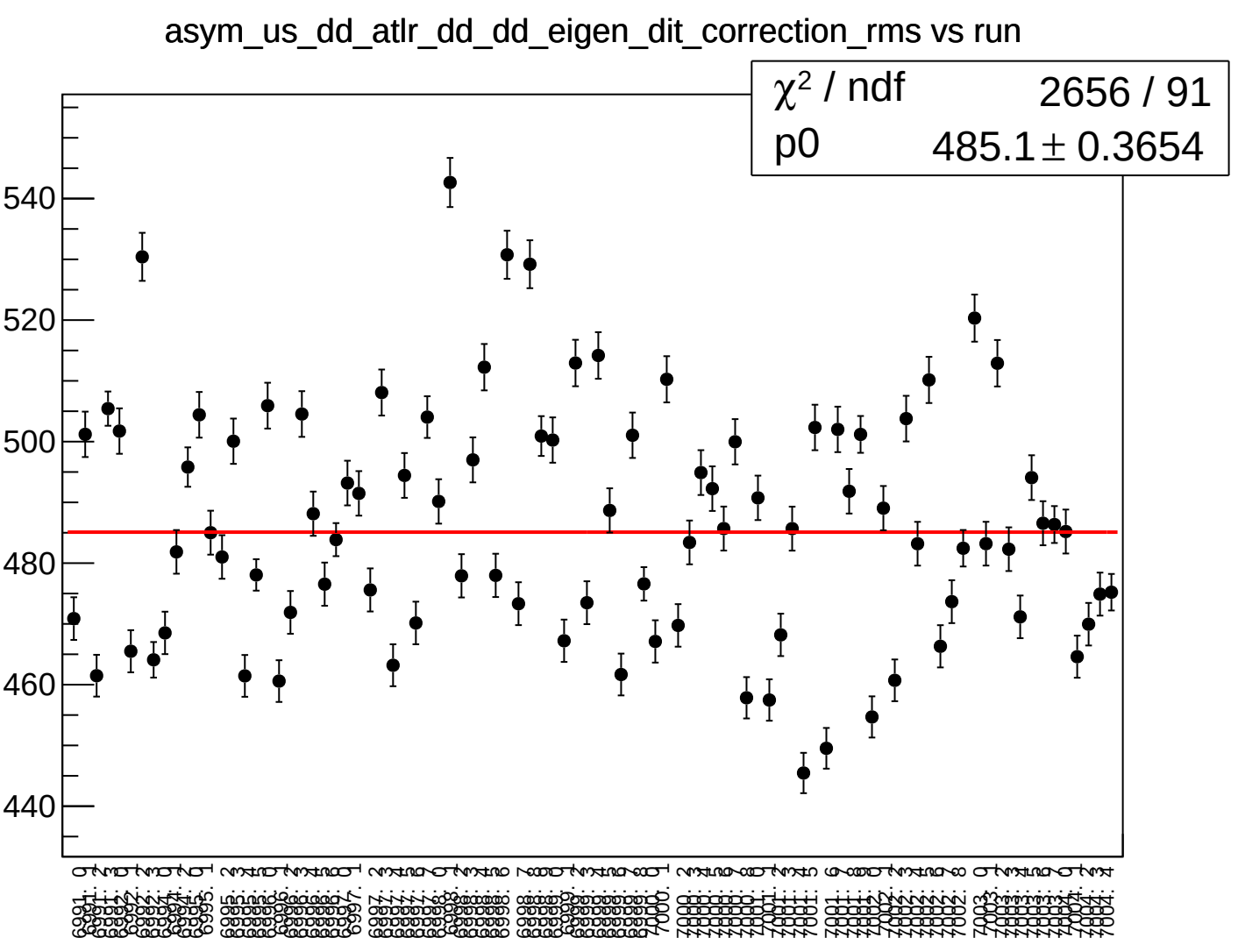

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 89.5 / 91
p0 584 ± 1190
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 307.8
Std Dev 0
2
1
0
−1
−2

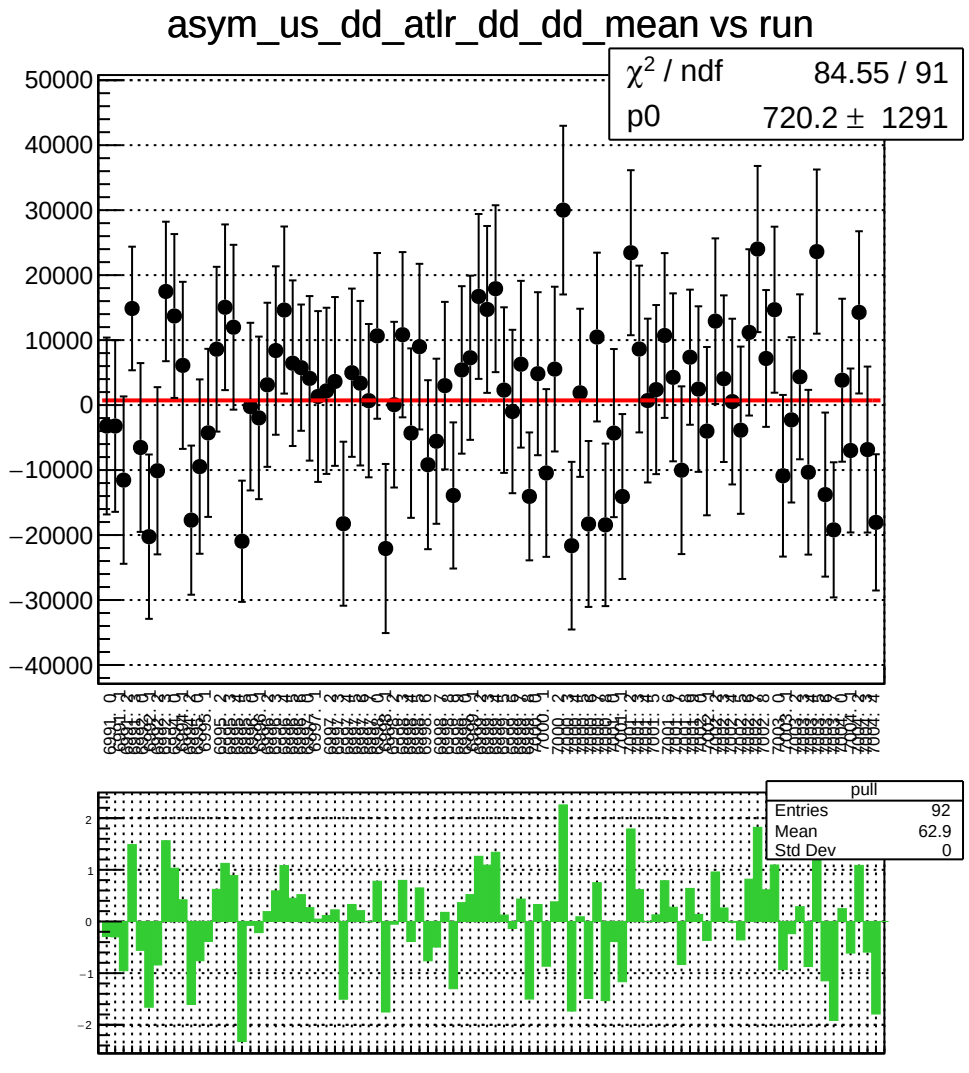

pull1D
Entries 92
Mean 0.01125
Std Dev 0.9862
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

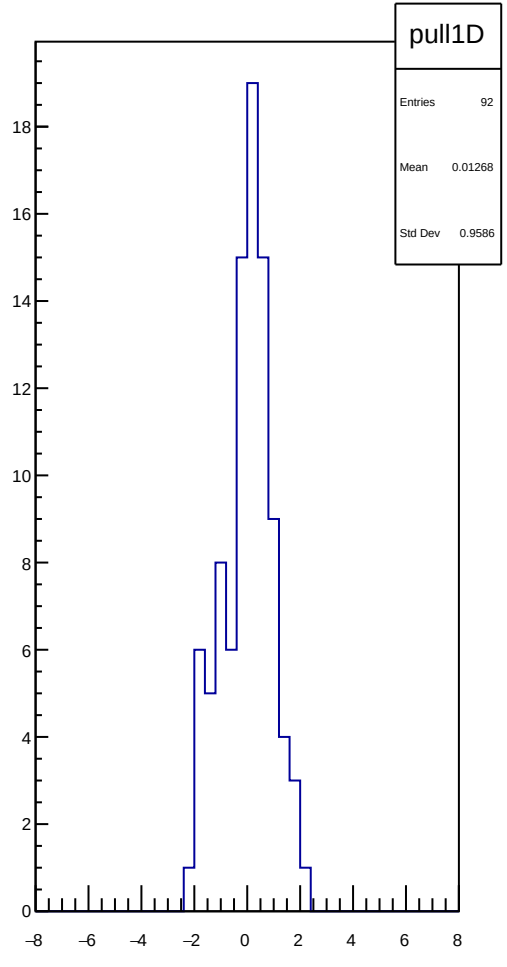

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 348.6 / 91
p0 1118 ± 0.8412
1220
1200
1180
1160
1140
1120
1100
1080

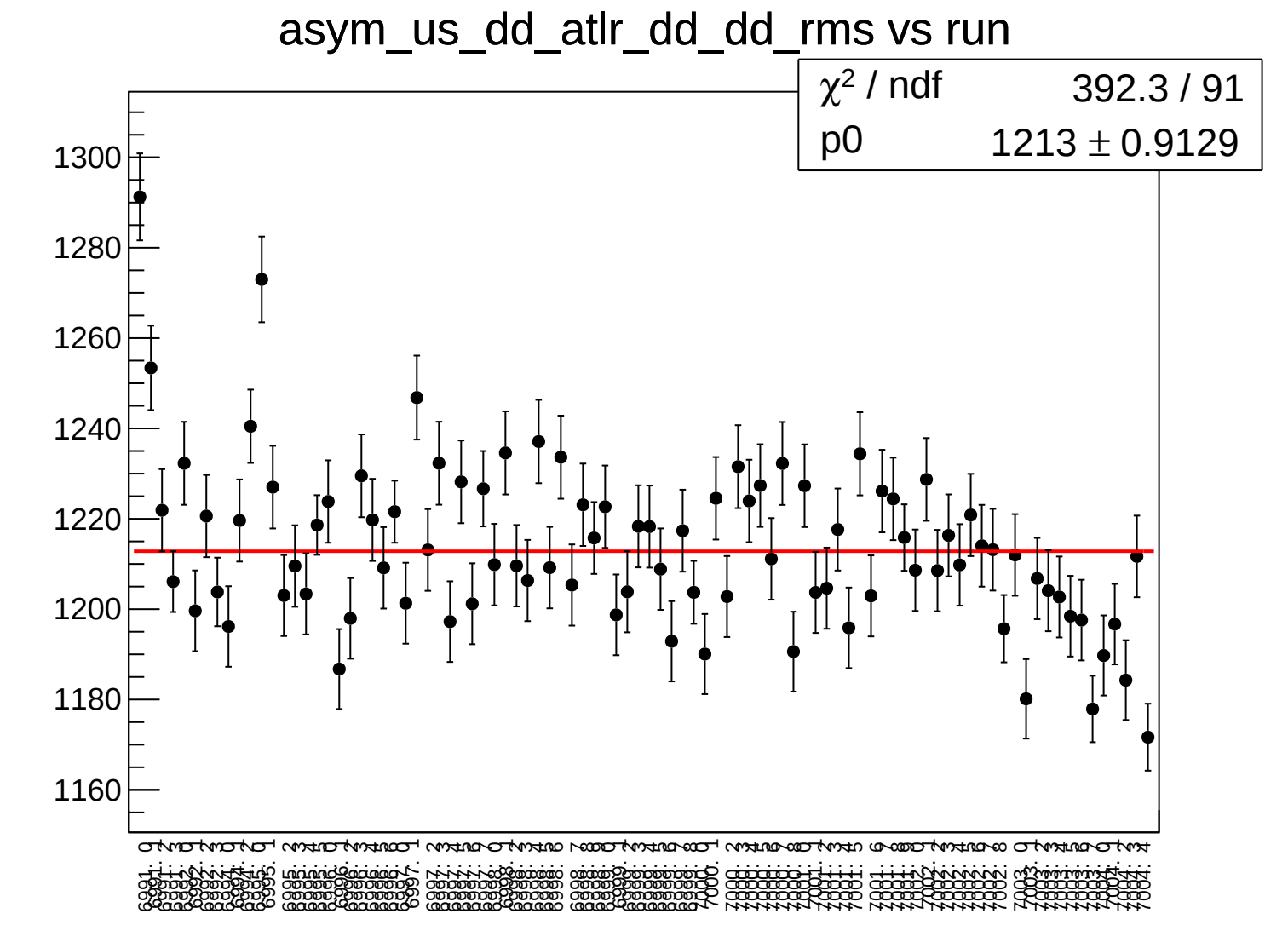

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.18 / 91
p0 −166.9 ± 516.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −2661
Std Dev 0
2
1
0
−1
−2

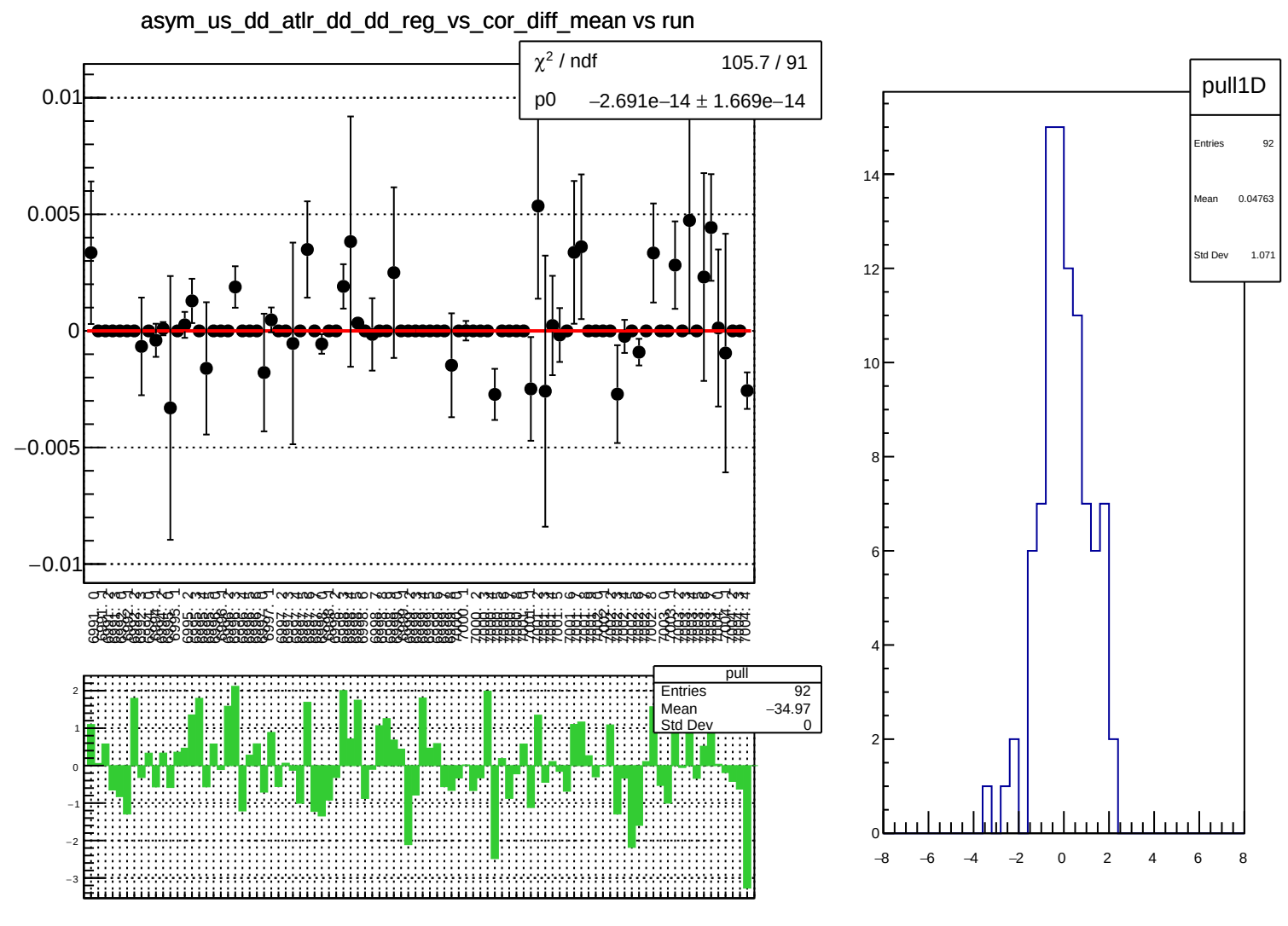

pull1D
Entries 92
Mean −0.002259
Std Dev 0.9901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

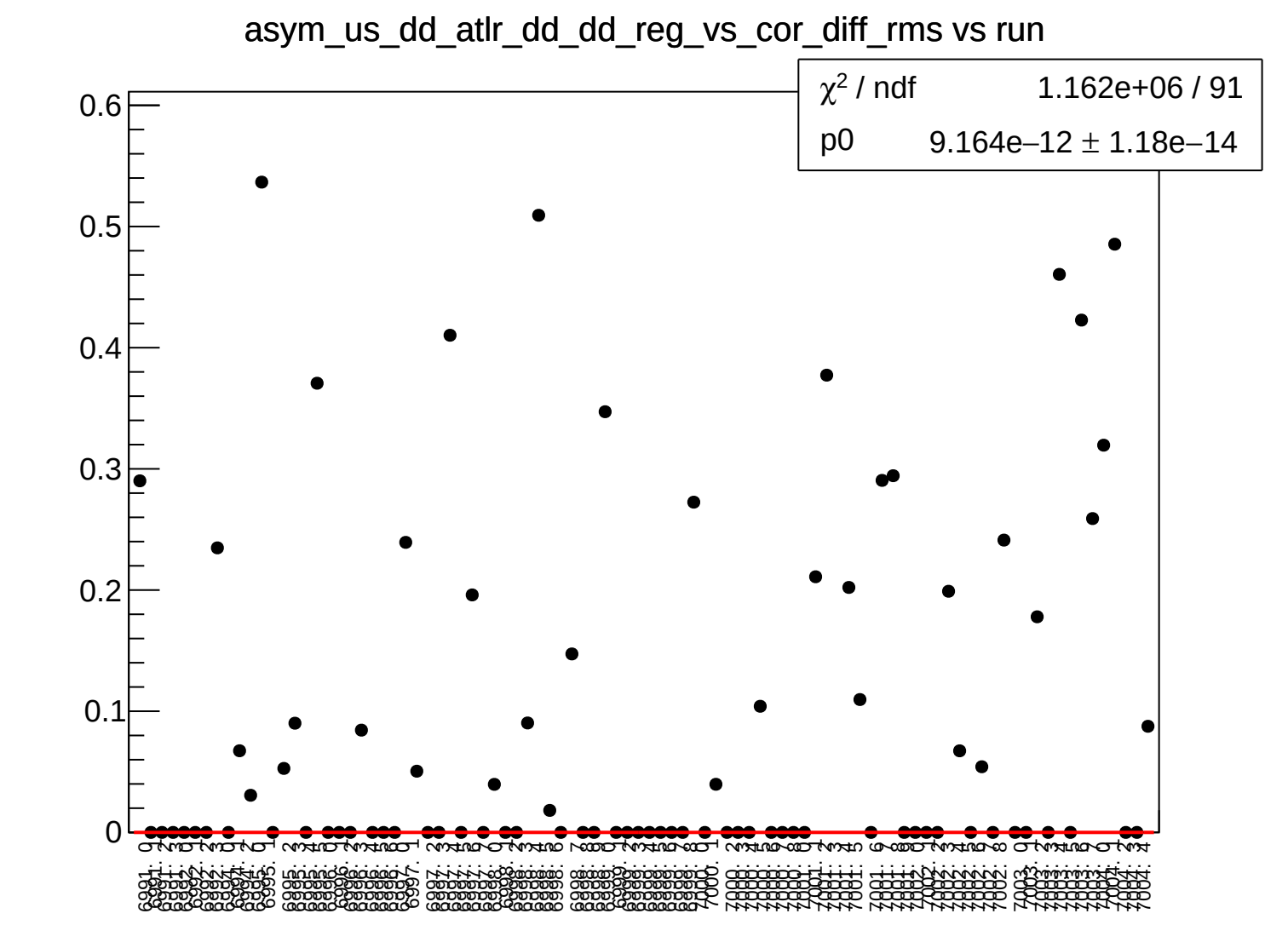

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2656 / 91
p0 485.1 ± 0.3654
540
520
500
480
460
440

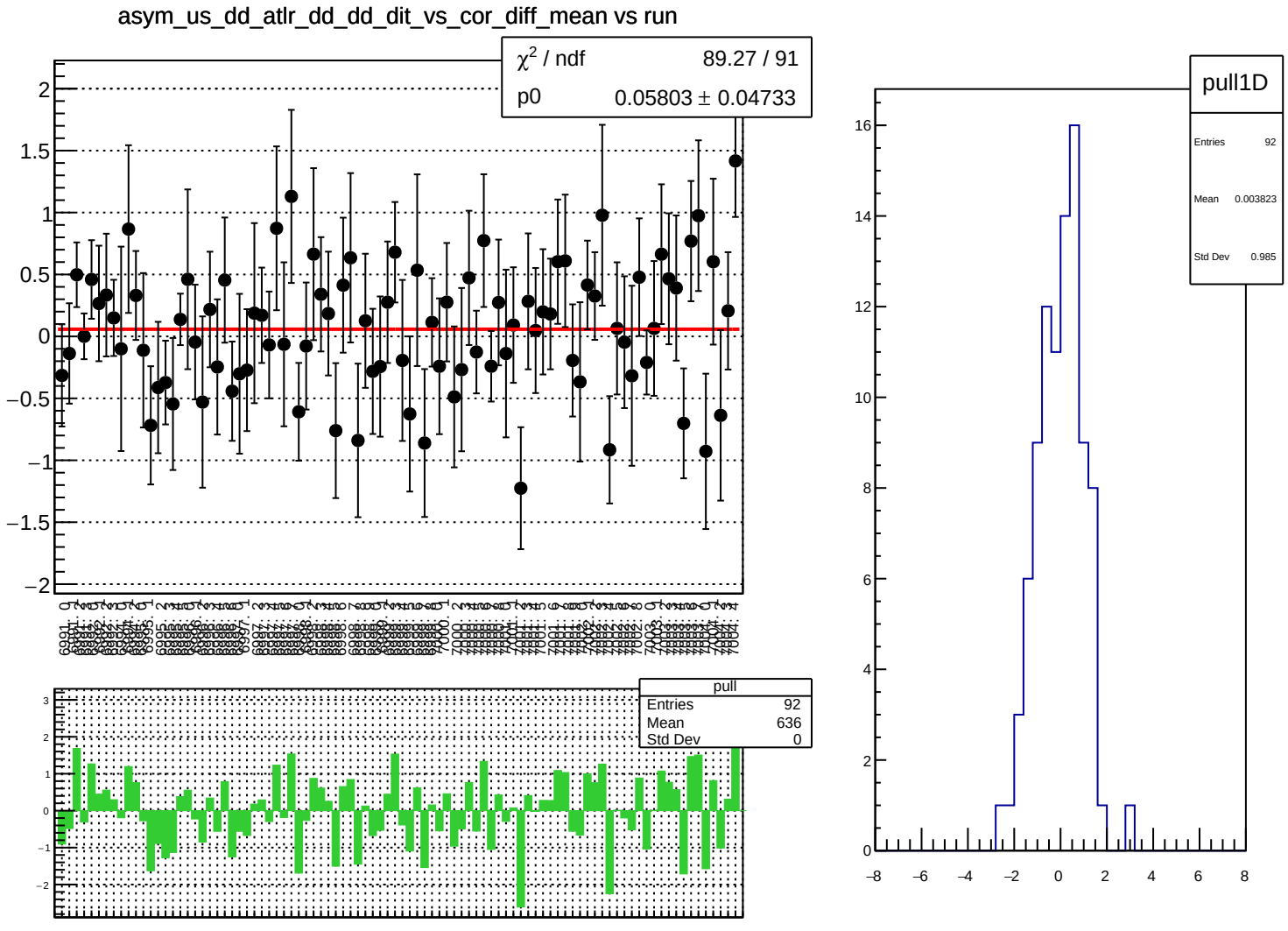

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 84.55 / 91
p0 720.2 ± 1291
pull
Entries 92
Mean 62.9
Std Dev 0

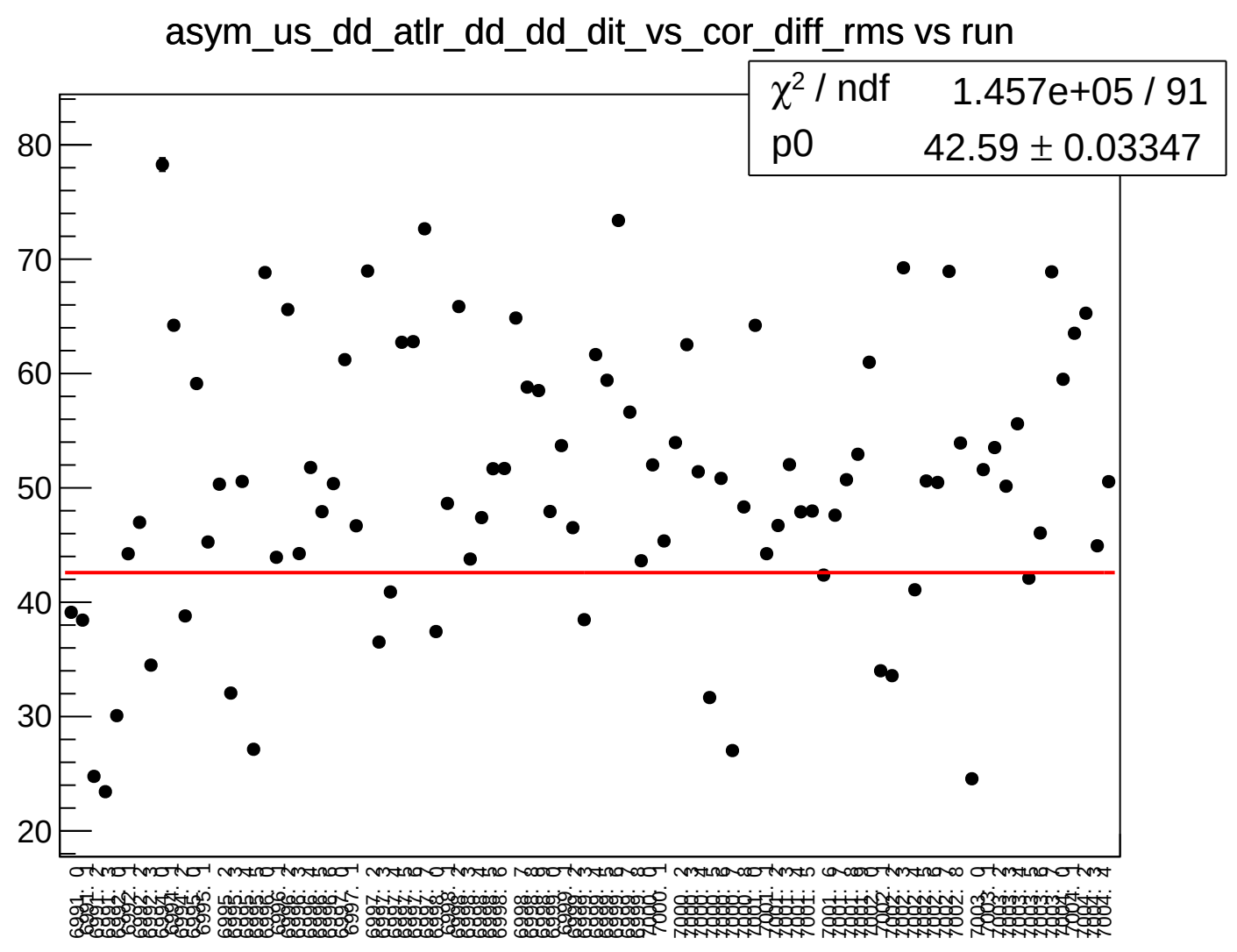

pull1D
Entries 92
Mean 0.01268
Std Dev 0.9586

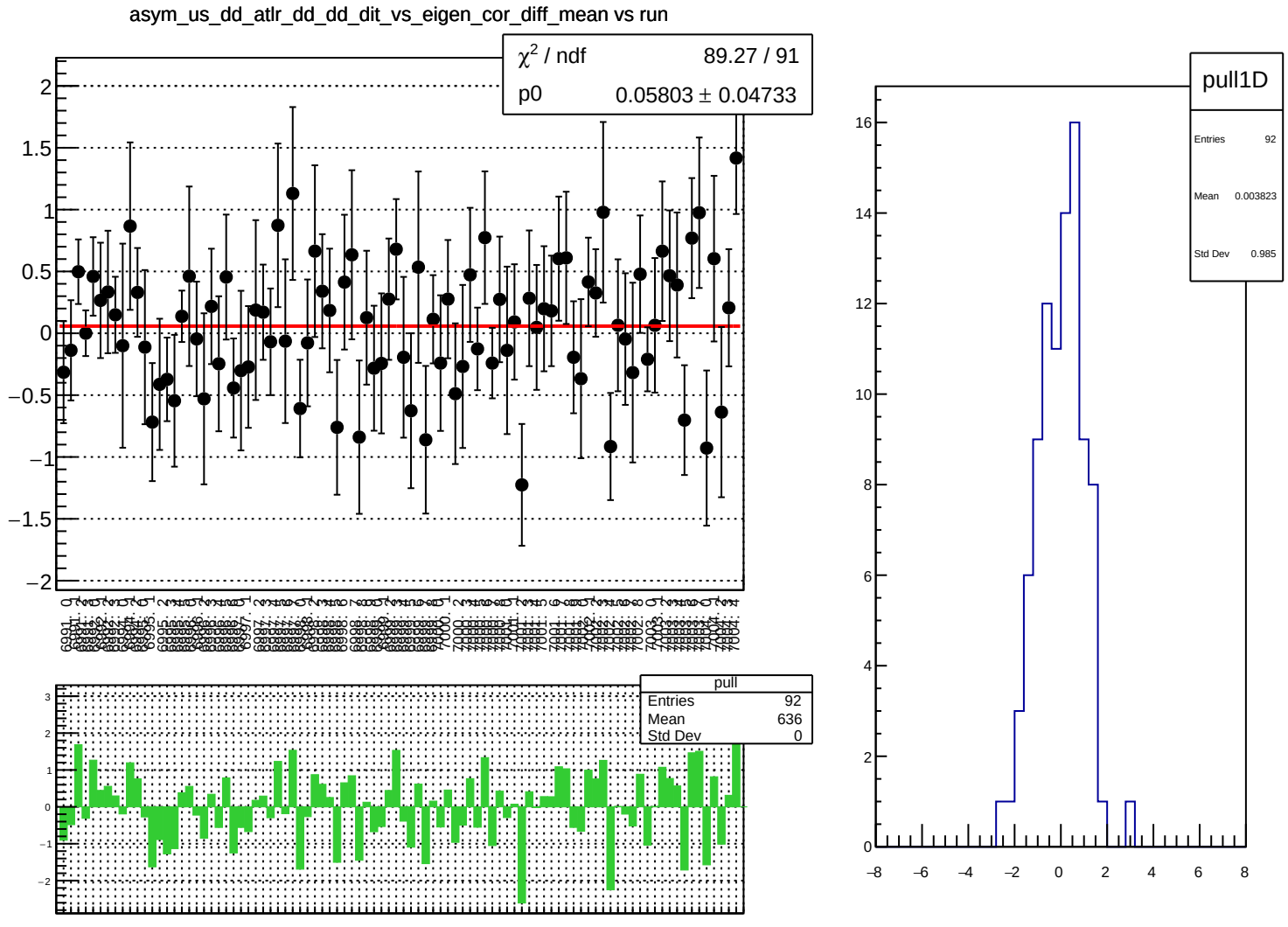

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 392.3 / 91
p0 1213 ± 0.9129
1300
1280
1260
1240
1220
1200
1180
1160

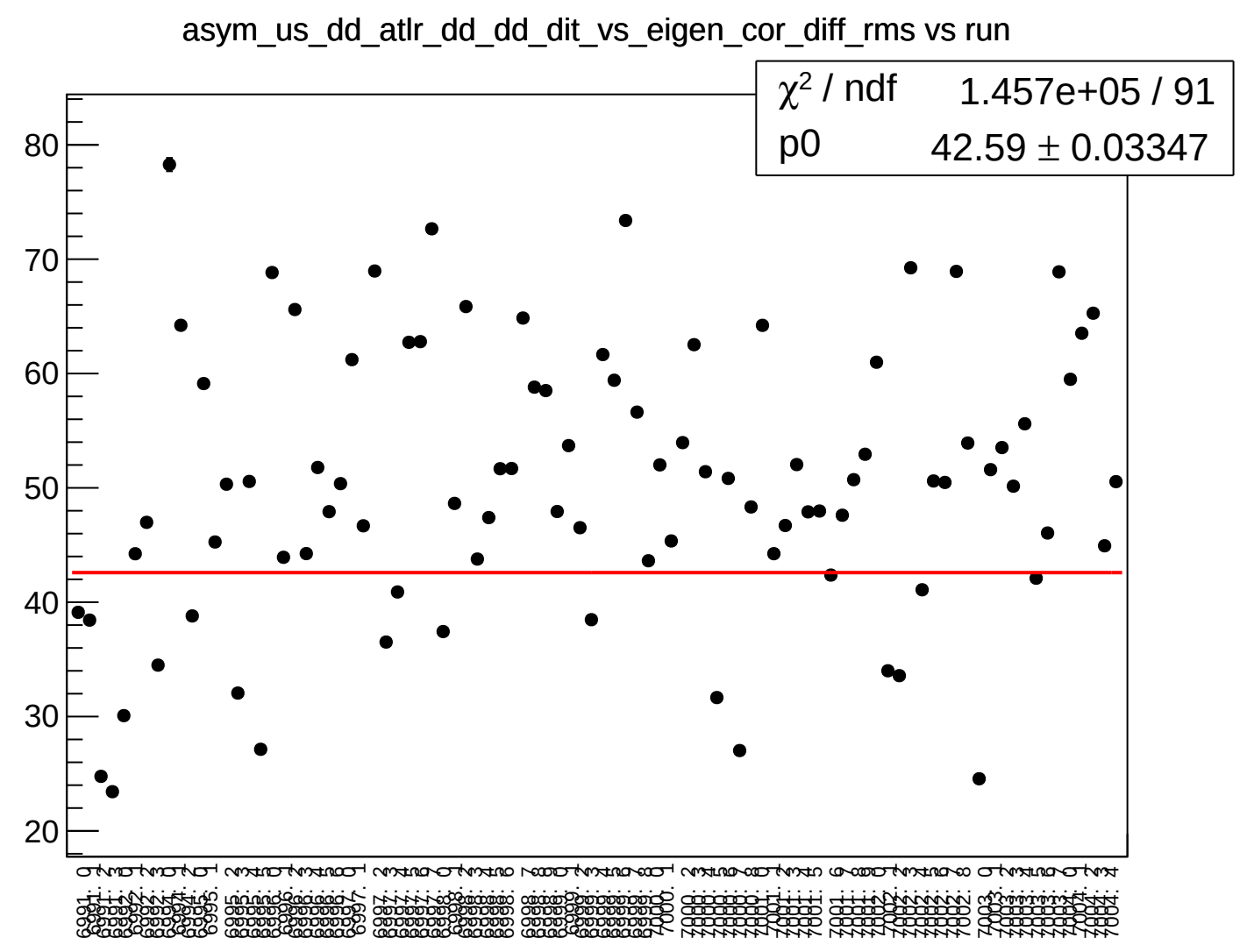

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.7 / 91
p0 −2.691e−14 ± 1.669e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 92
Mean −34.97
Std Dev 0
pull1D
Entries 92
Mean 0.04763
Std Dev 1.071

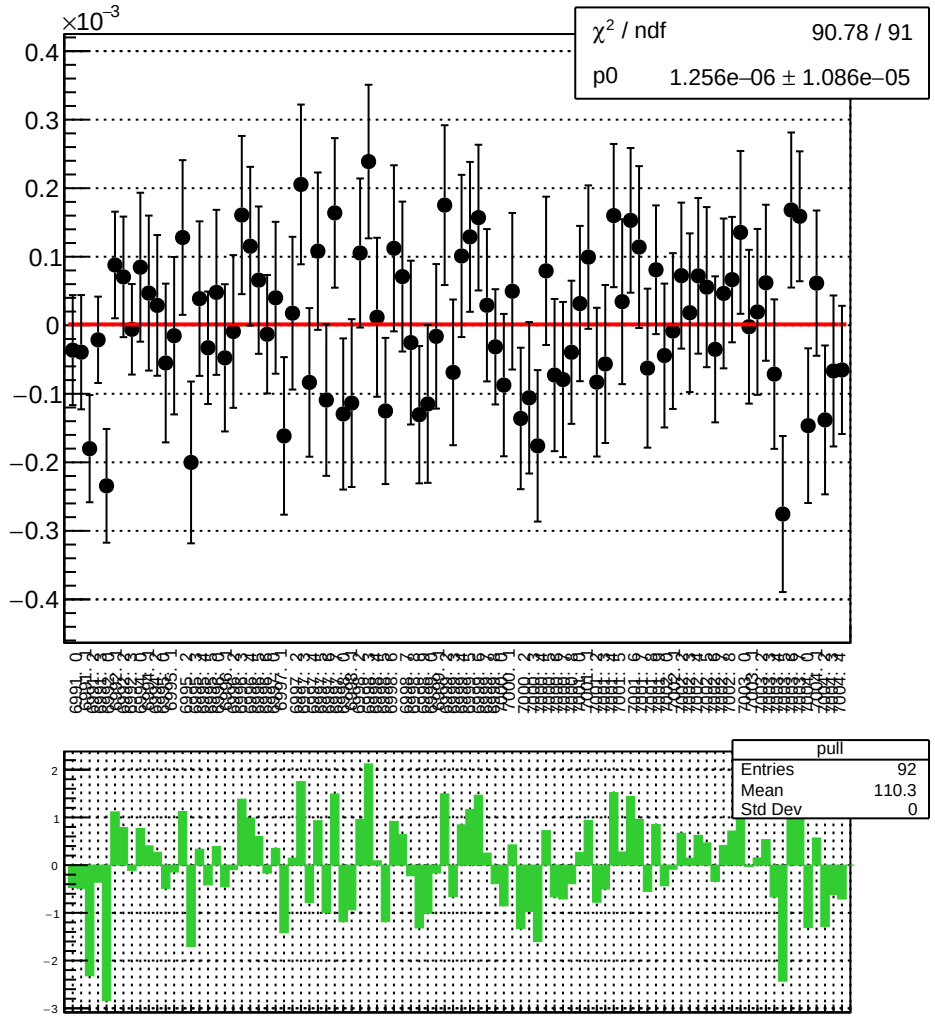

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.162e+06 / 91
p0 9.164e−12 ± 1.18e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

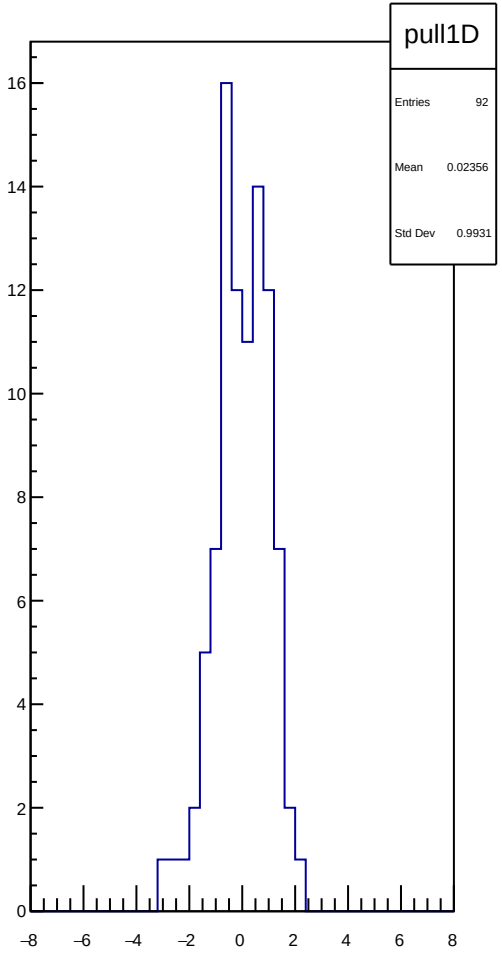

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.27 / 91
p0 0.05803 ± 0.04733
pull
Entries 92
Mean 636
Std Dev 0
pull1D
Entries 92
Mean 0.003823
Std Dev 0.985

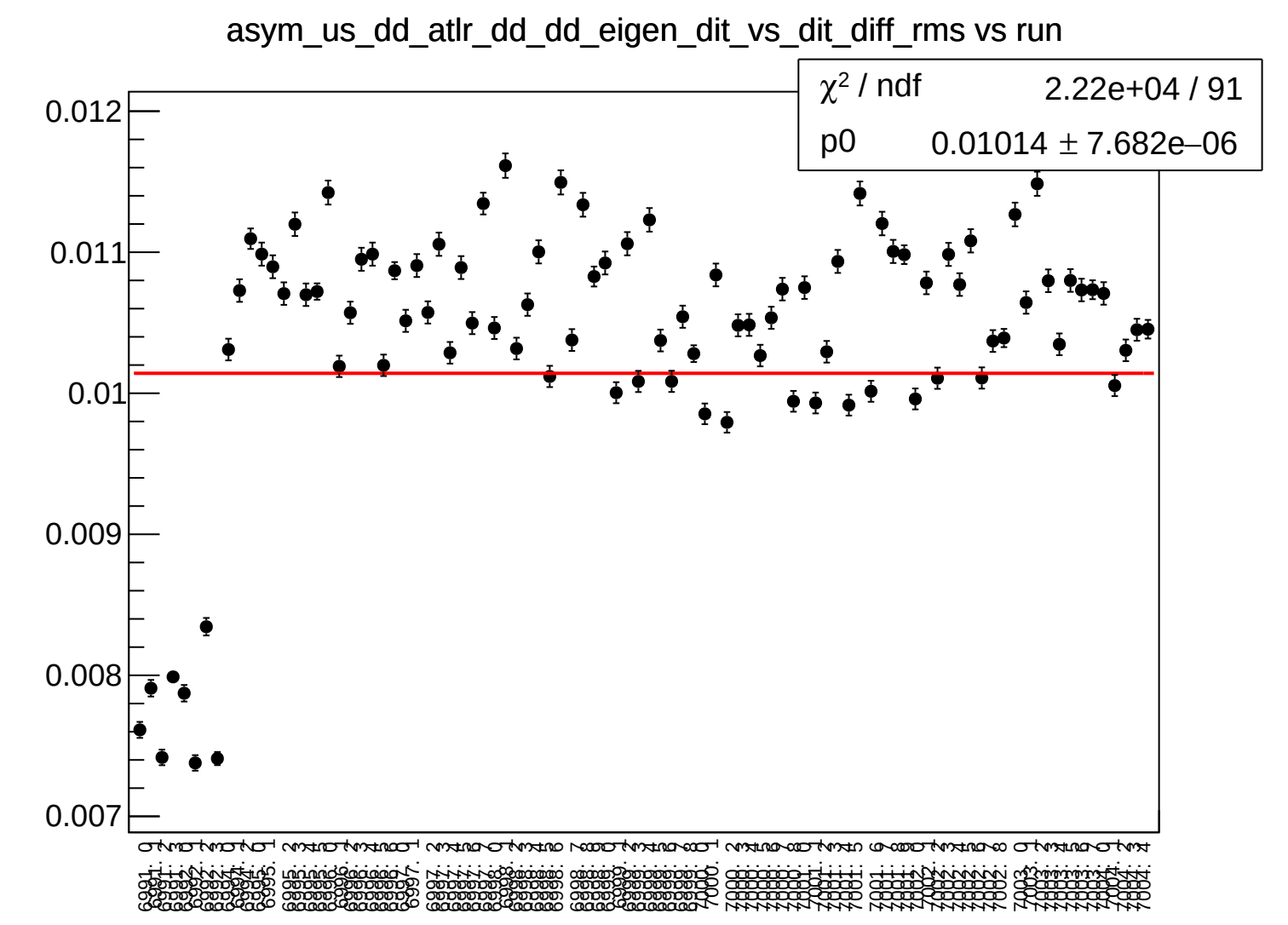

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.457e+05 / 91
p0 42.59 ± 0.03347
80
70
60
50
40
30
20

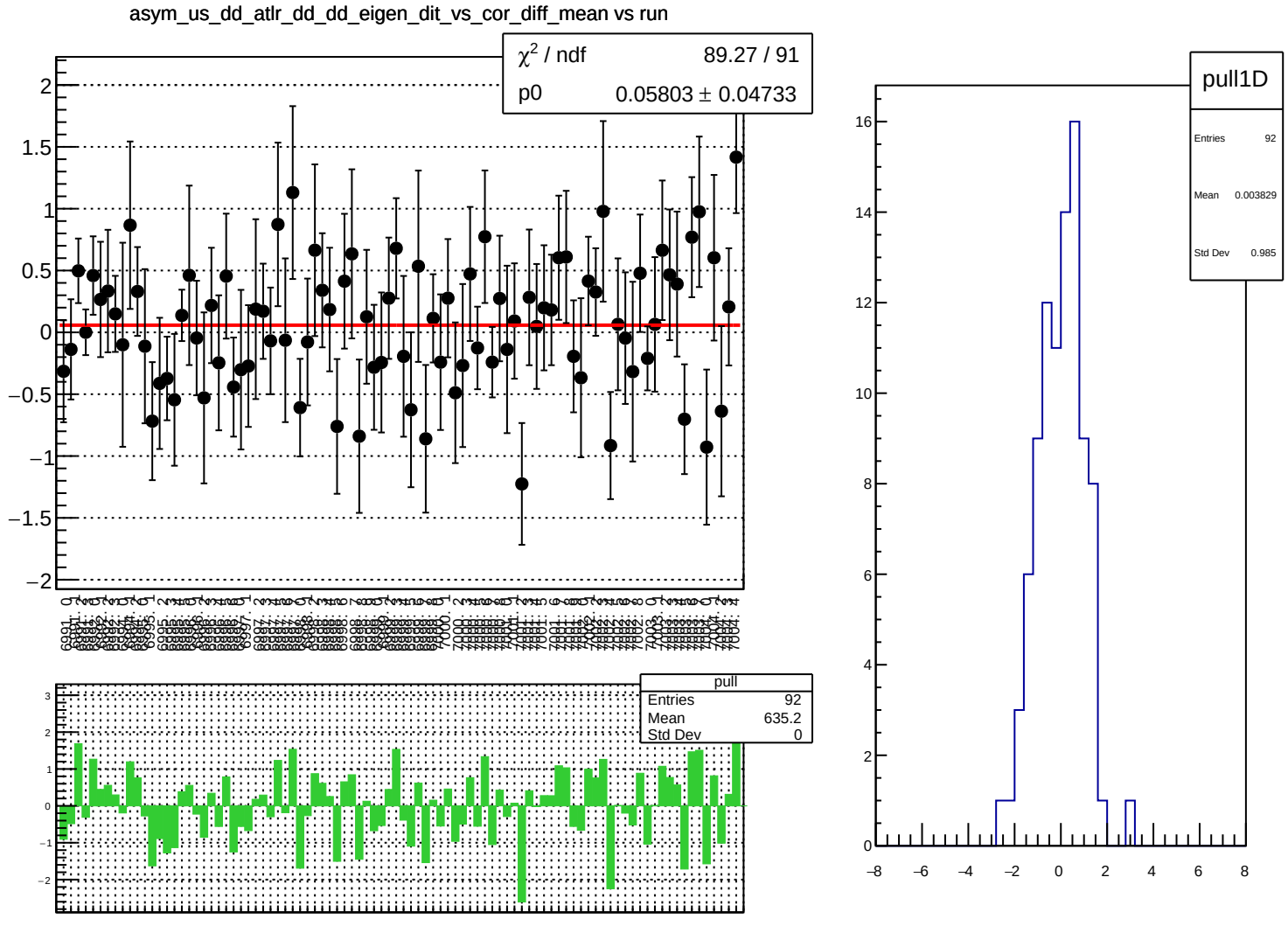

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.27 / 91
p0 0.05803 ± 0.04733
pull
Entries 92
Mean 636
Std Dev 0
pull1D
Entries 92
Mean 0.003823
Std Dev 0.985

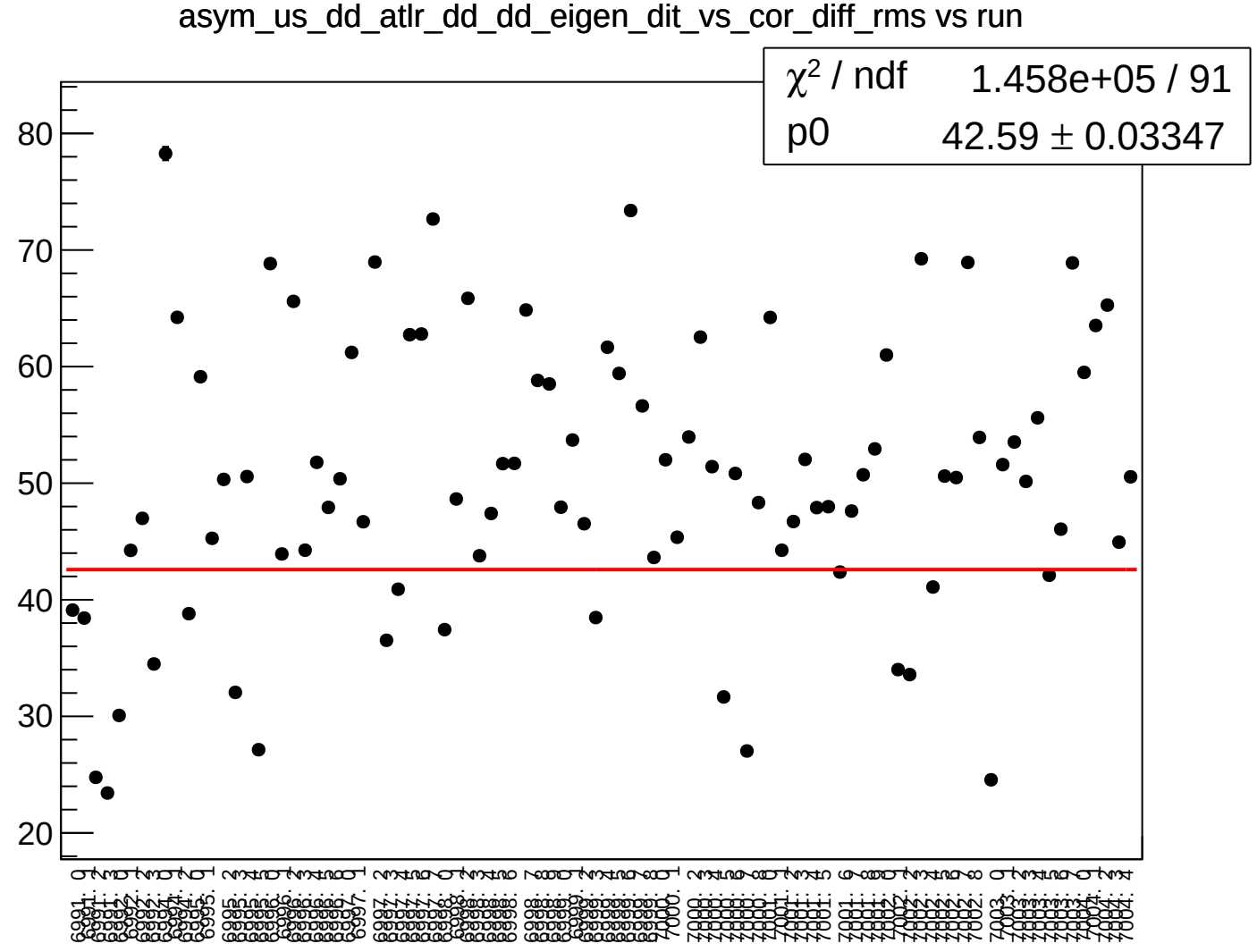

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.457e+05 / 91
p0 42.59 ± 0.03347
80
70
60
50
40
30
20

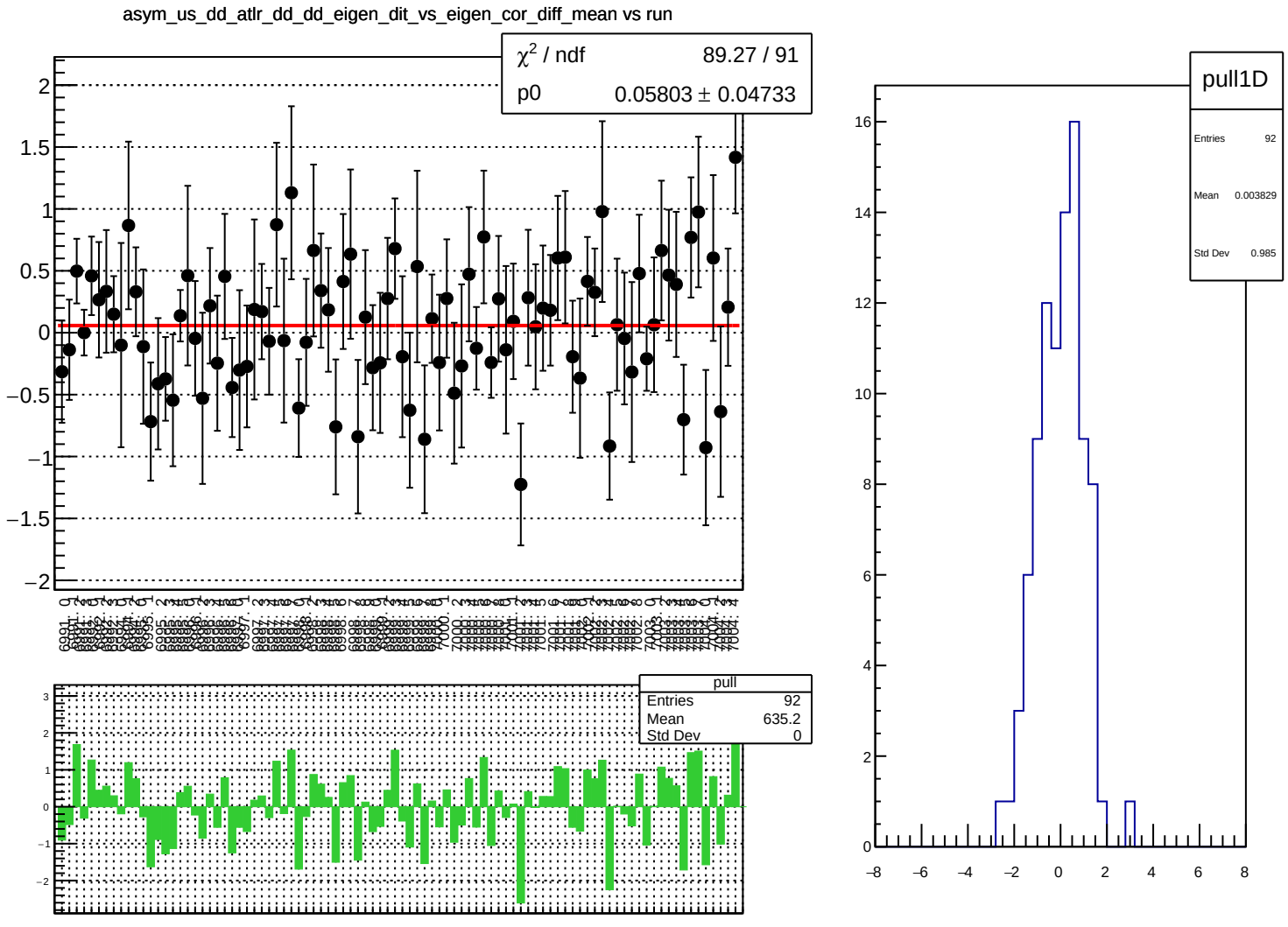

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.78 / 91
p0 1.256e−06 ± 1.086e−05
pull
Entries 92
Mean 110.3
Std Dev 0

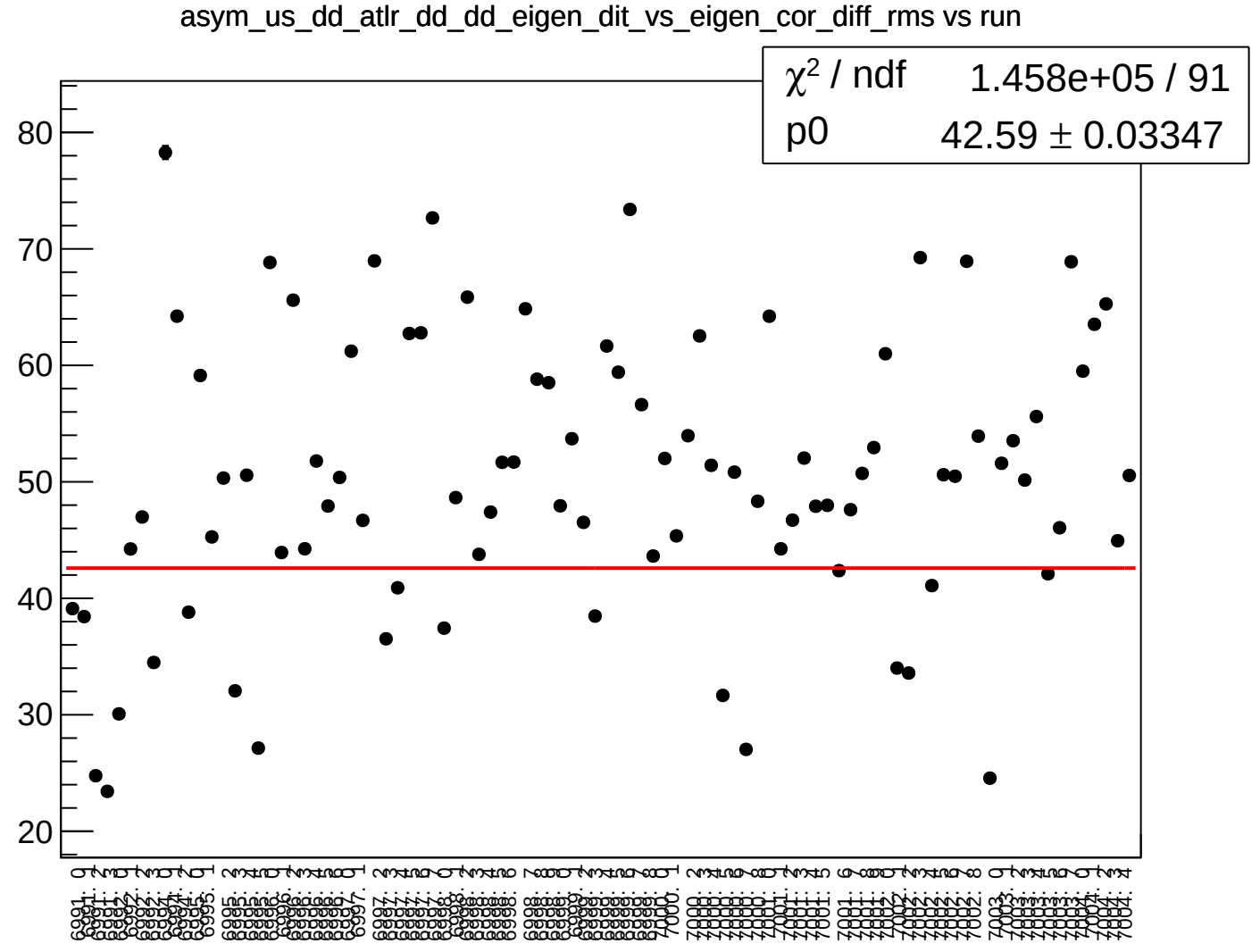

pull1D
Entries 92
Mean 0.02356
Std Dev 0.9931

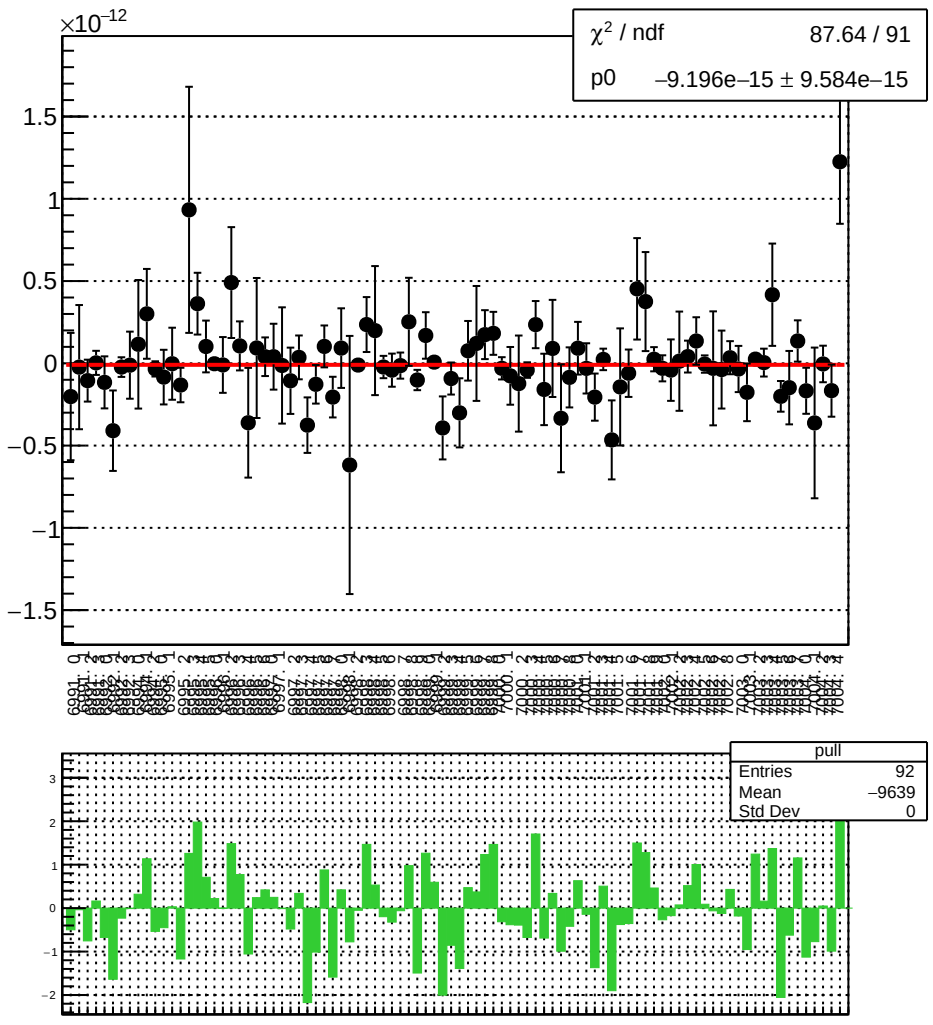

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.22e+04 / 91
p0 0.01014 ± 7.682e−06
0.012
0.011
0.01
0.009
0.008
0.007

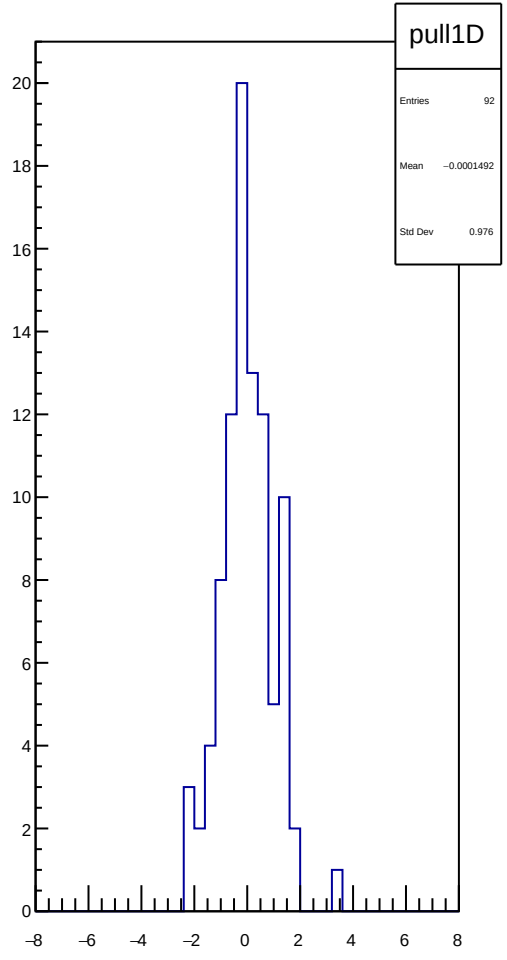

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.27 / 91
p0 0.05803 ± 0.04733
pull
Entries 92
Mean 635.2
Std Dev 0
pull1D
Entries 92
Mean 0.003829
Std Dev 0.985

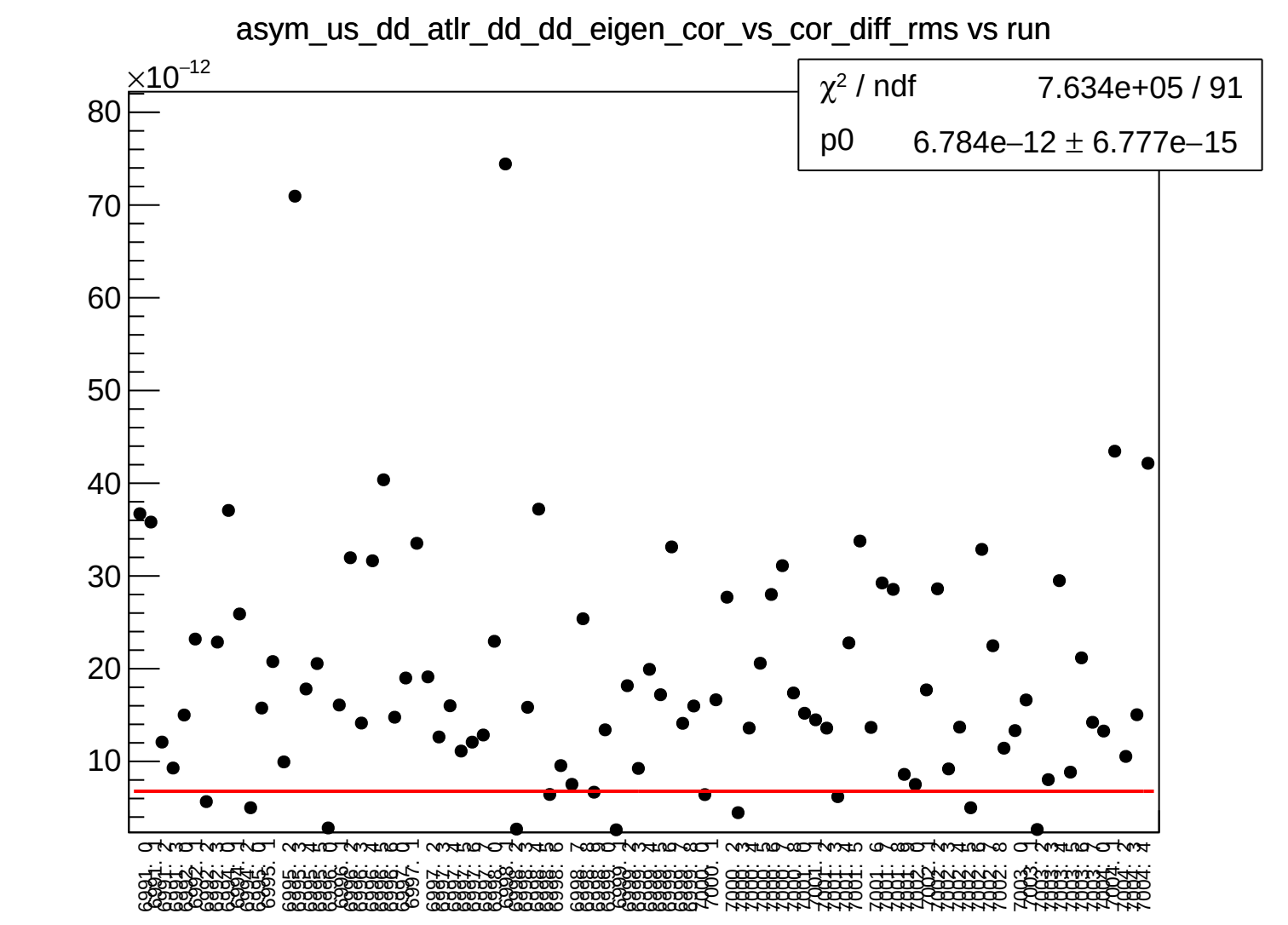

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.458e+05 / 91
p0 42.59 ± 0.03347
80
70
60
50
40
30
20

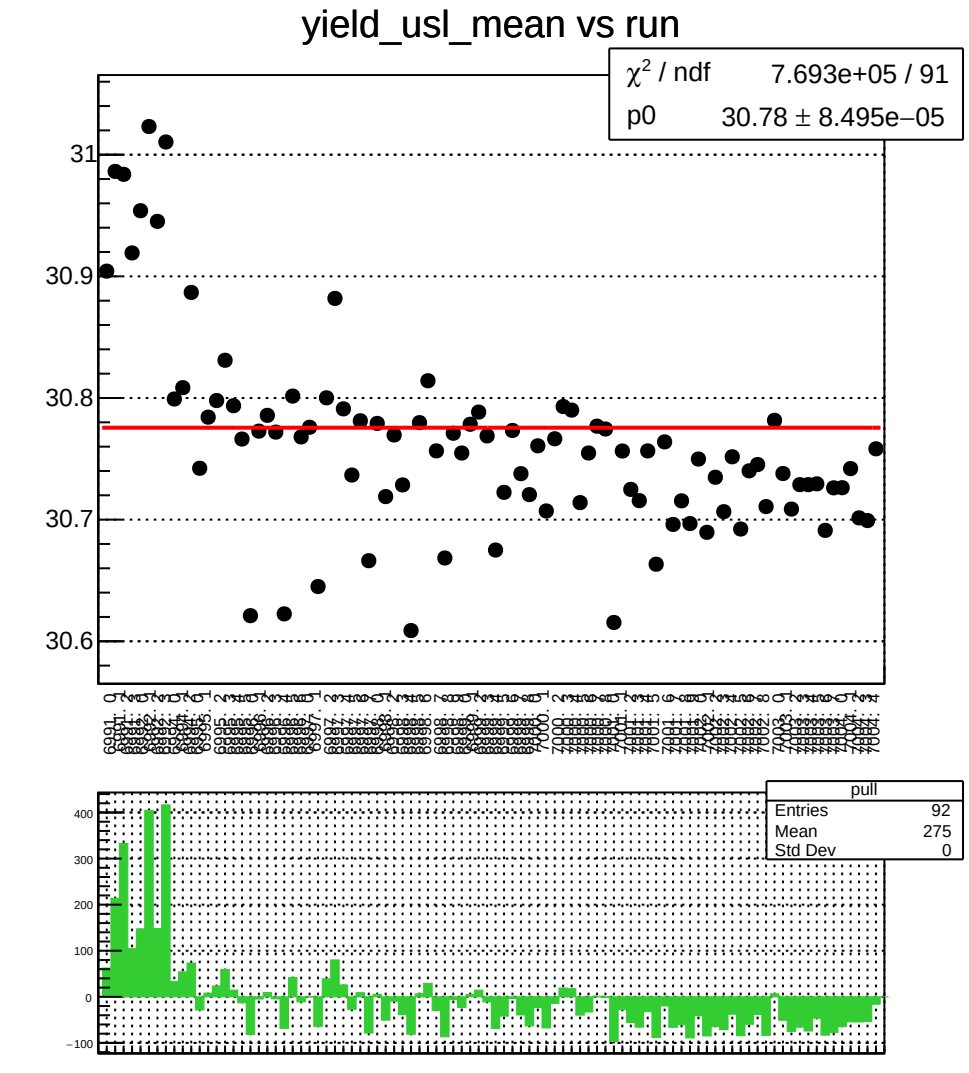

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.27 / 91
p0 0.05803 ± 0.04733
pull
Entries 92
Mean 635.2
Std Dev 0
pull1D
Entries 92
Mean 0.003829
Std Dev 0.985

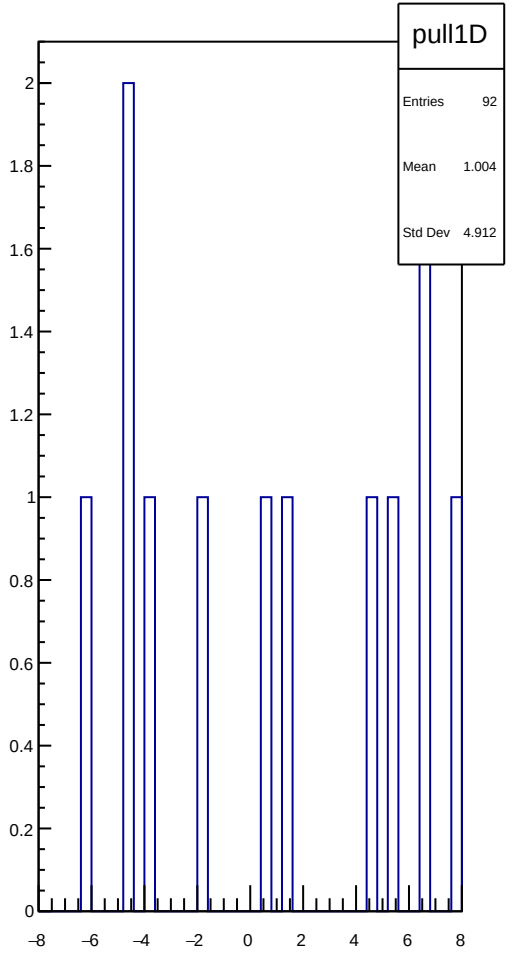

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.458e+05 / 91
p0 42.59 ± 0.03347
80
70
60
50
40
30
20

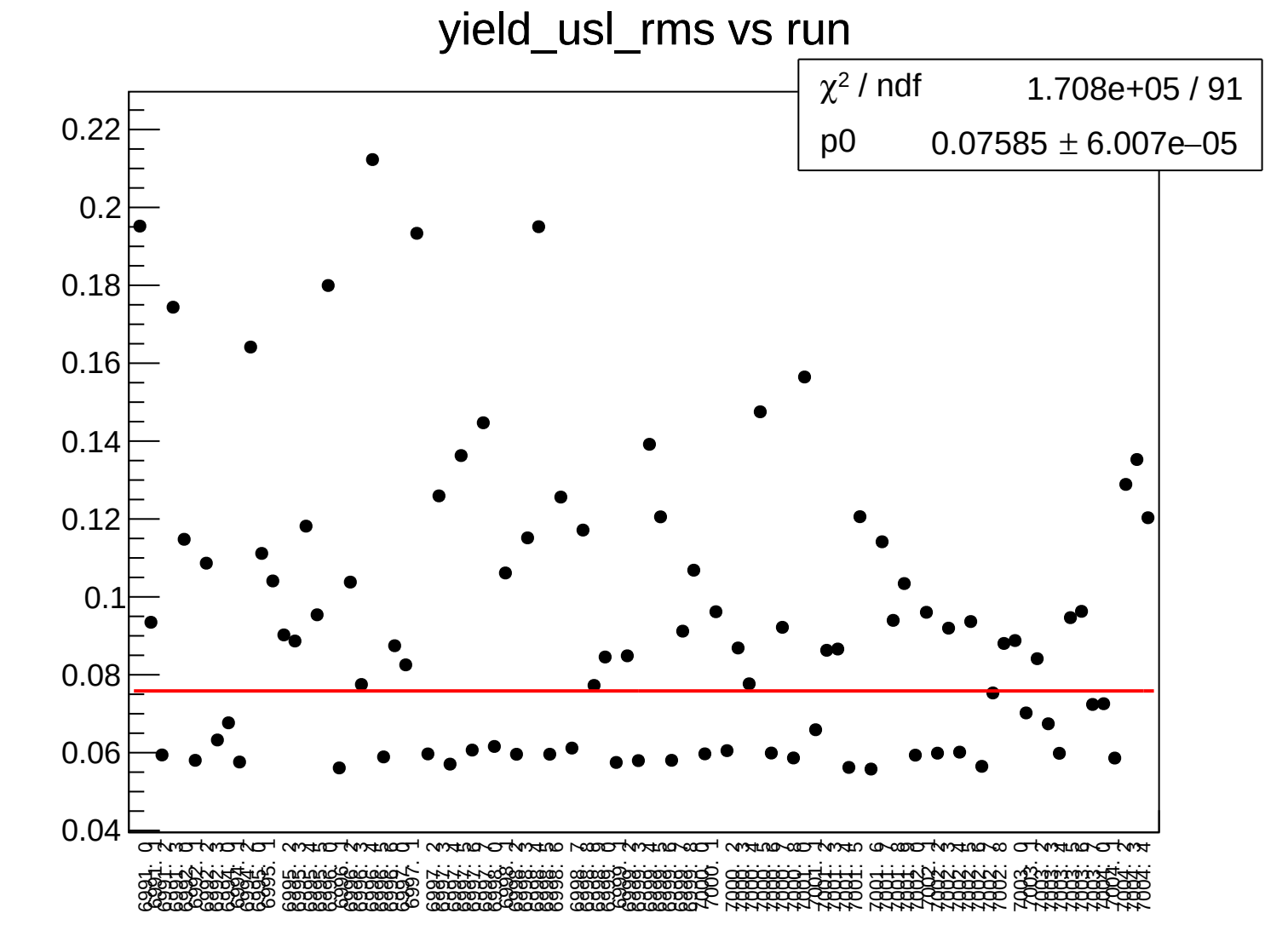

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.64 / 91
p0 −9.196e−15 ± 9.584e−15
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 92
Mean −9639
Std Dev 0
3
2
1
0
−1
−2

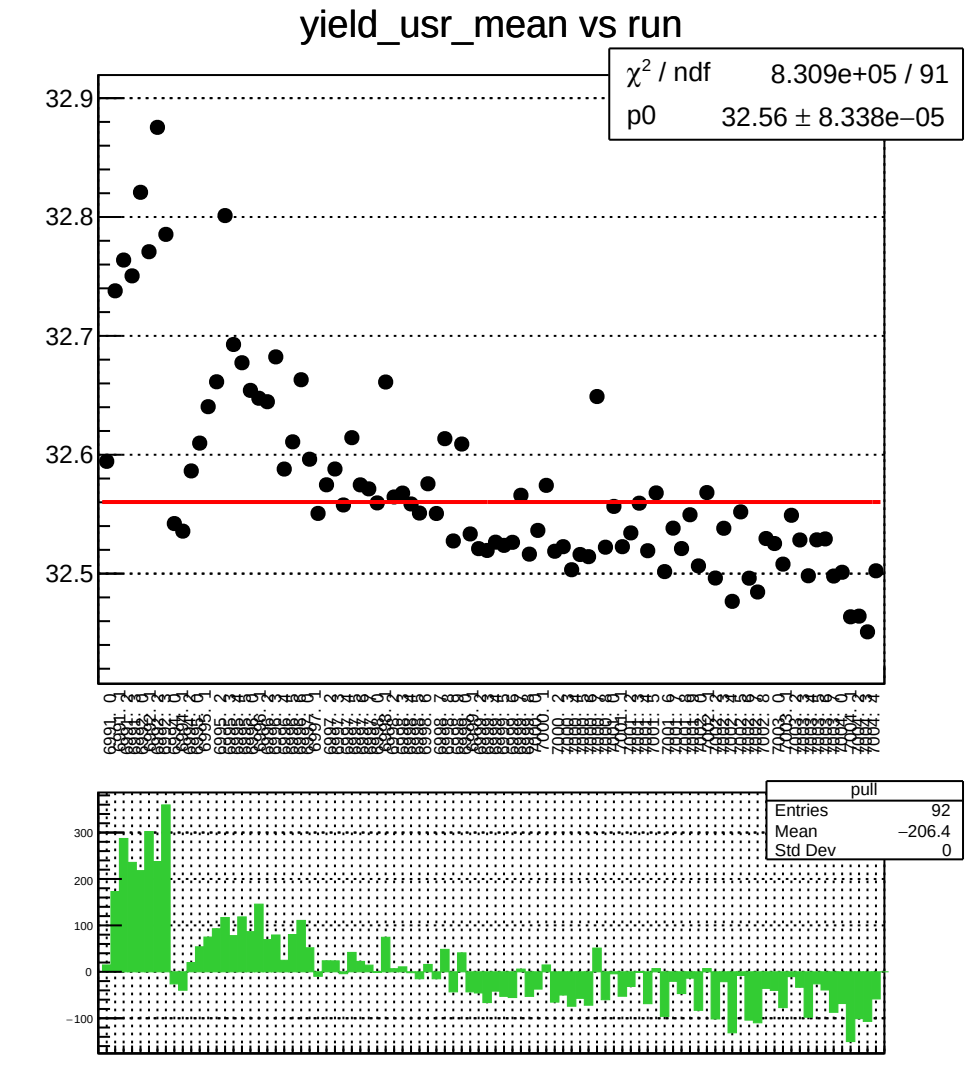

pull1D
Entries 92
Mean −0.0001492
Std Dev 0.976
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

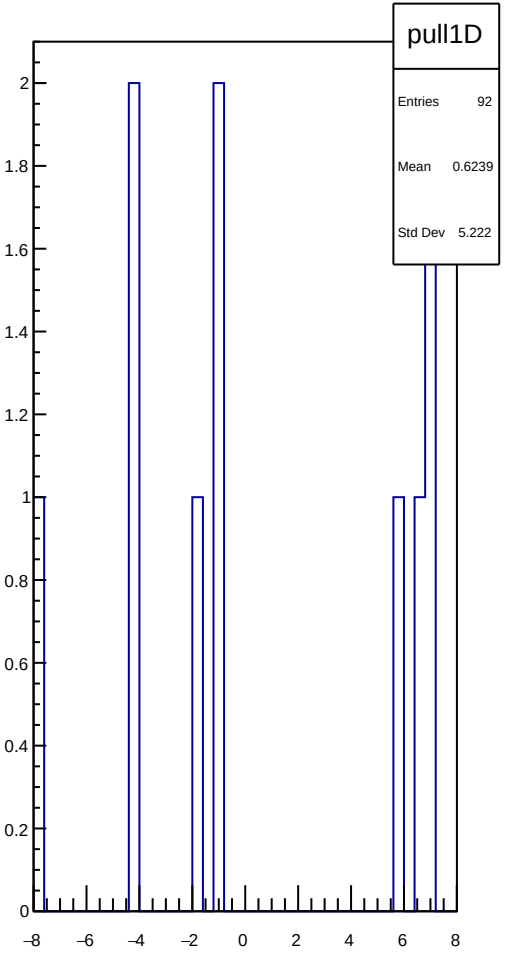

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.634e+05 / 91
p0 6.784e−12 ± 6.777e−15
80
70
60
50
40
30
20
10

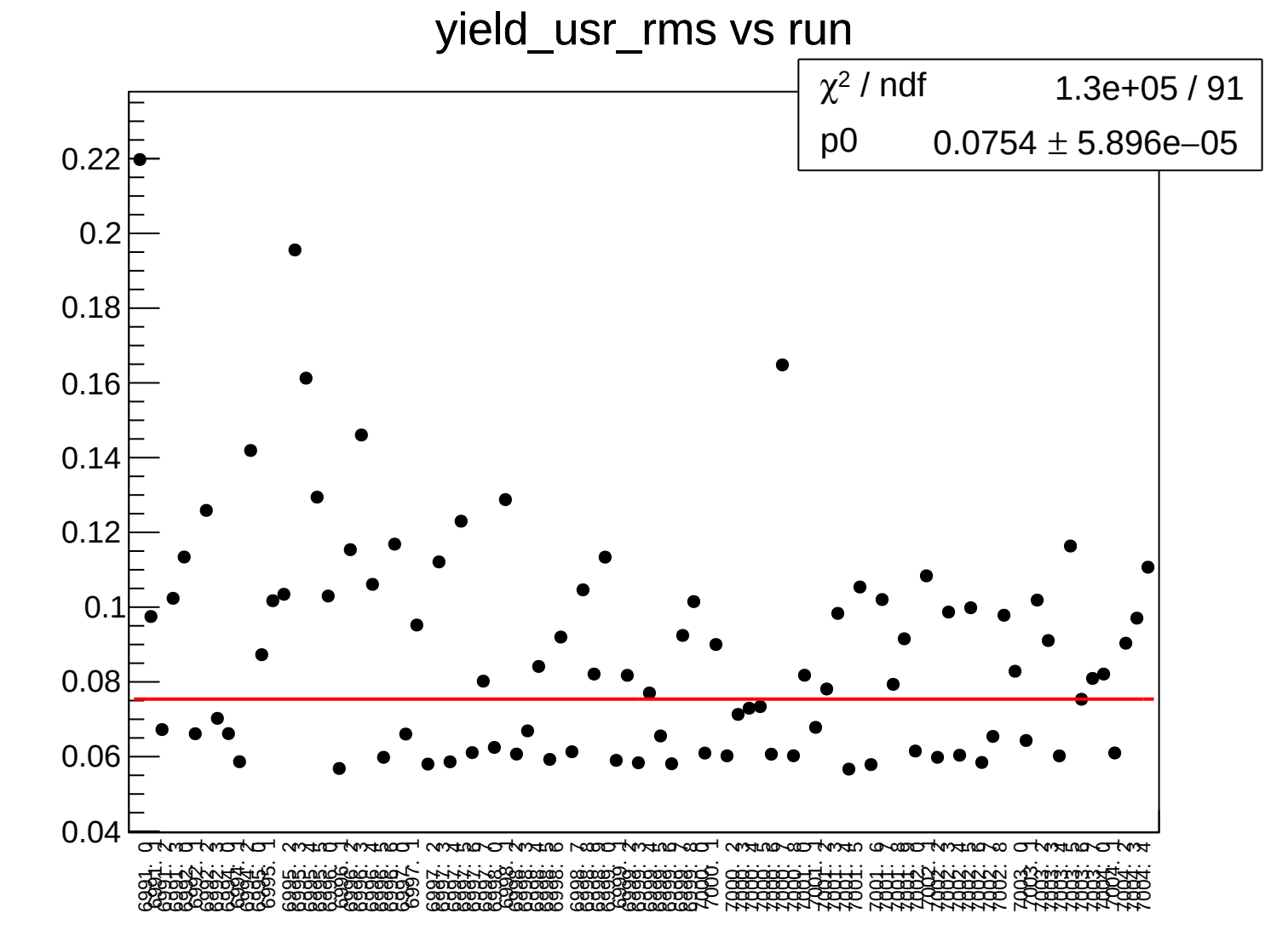

yield_usl_mean vs run
χ² / ndf 7.693e+05 / 91
p0 30.78 ± 8.495e−05
31
30.9
30.8
30.7
30.6
pull
Entries 92
Mean 275
Std Dev 0
400
300
200
100
0
−100

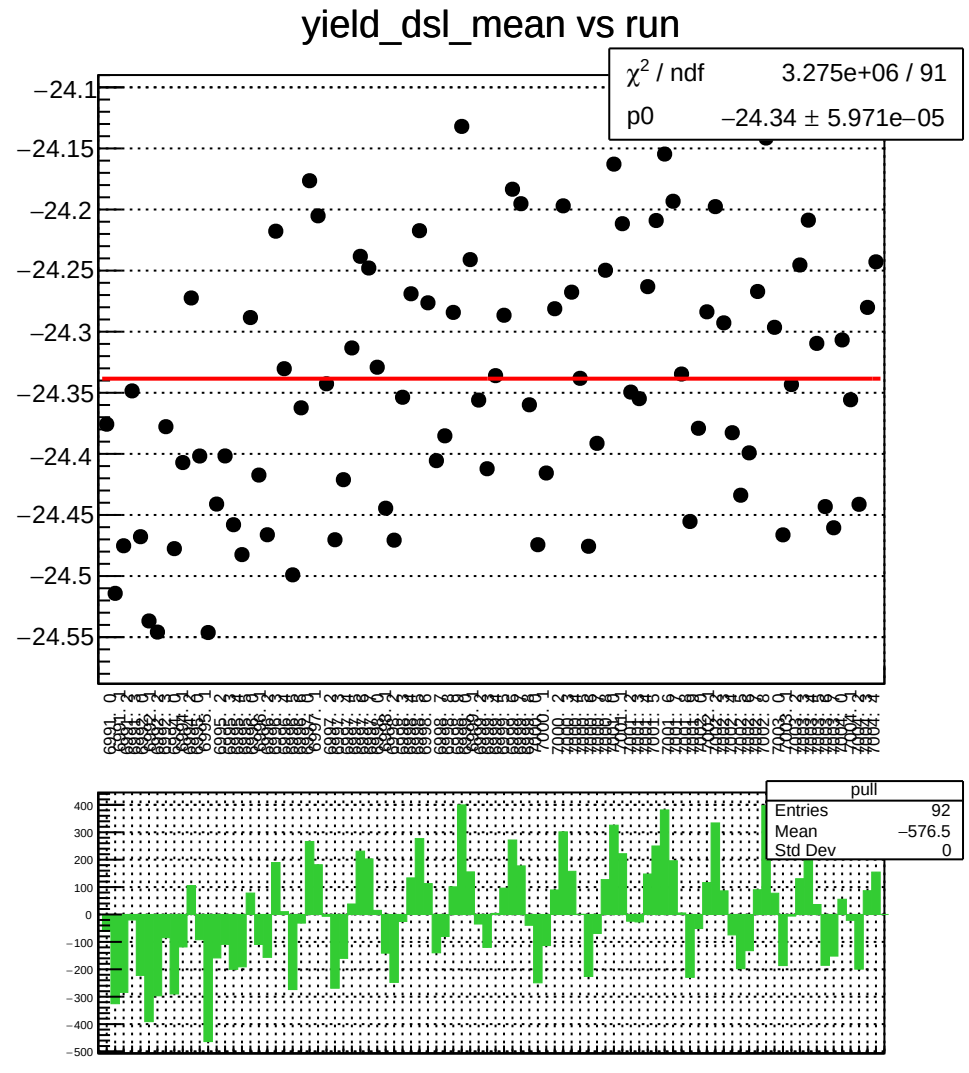

pull1D
Entries 92
Mean 1.004
Std Dev 4.912
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

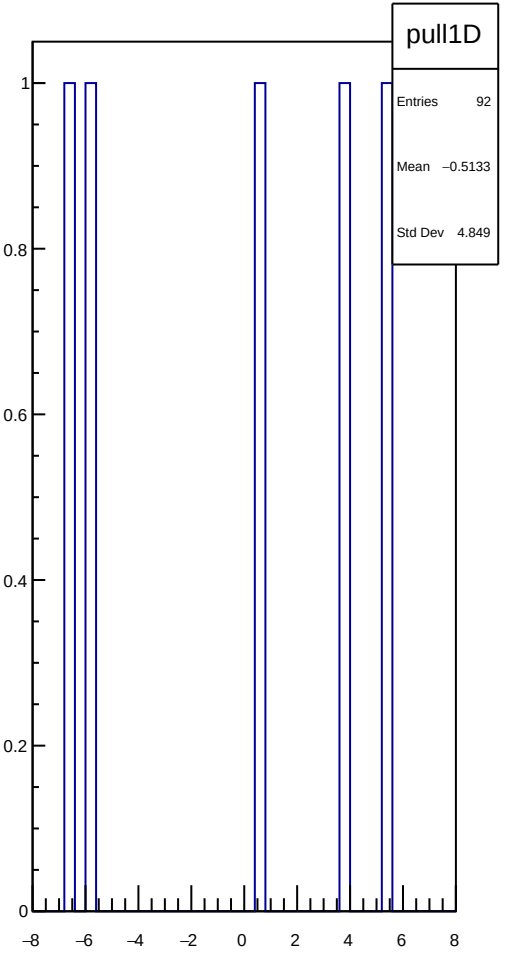

yield_usl_rms vs run
χ² / ndf 1.708e+05 / 91
p0 0.07585 ± 6.007e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

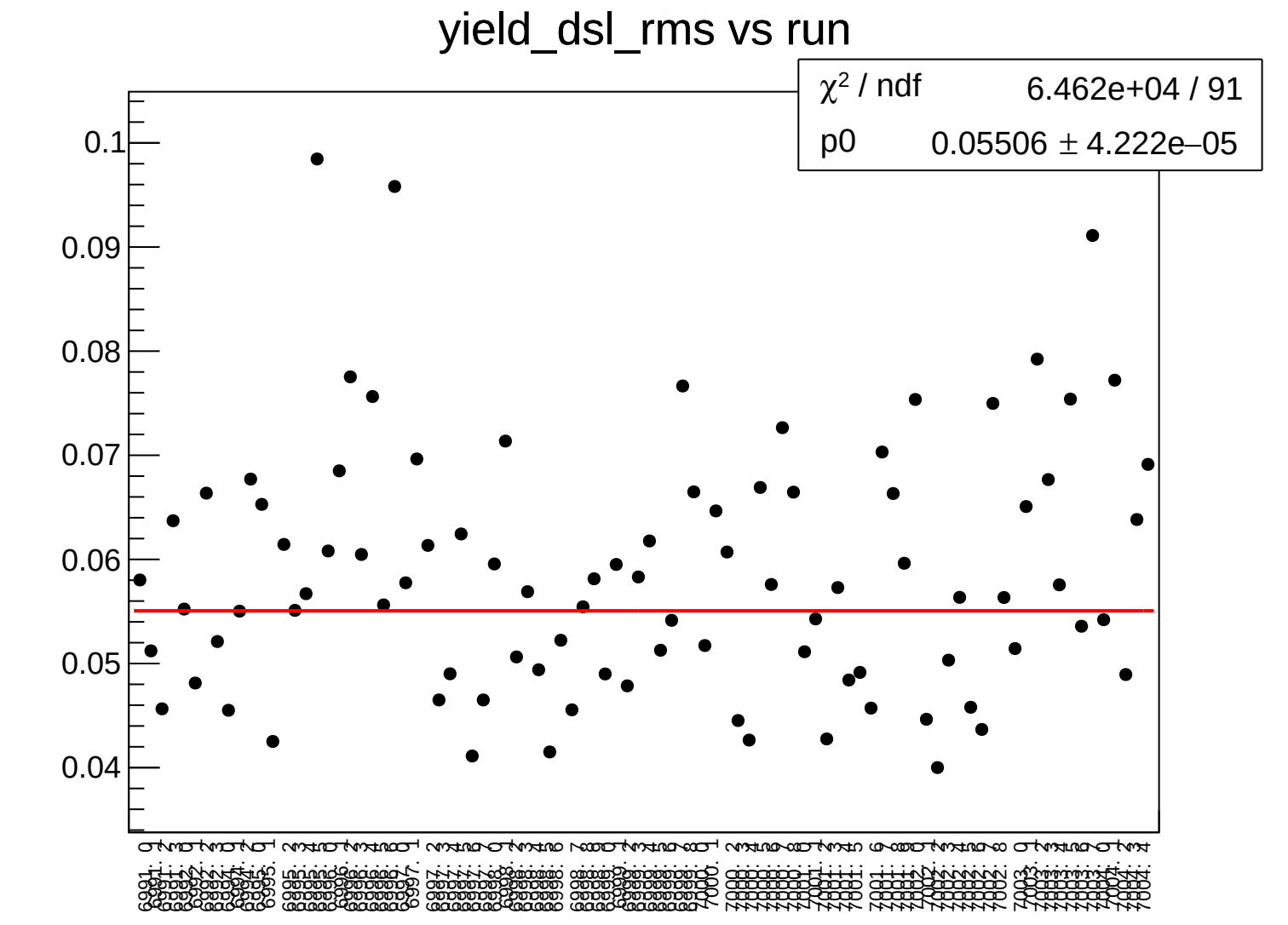

yield_usr_mean vs run
χ² / ndf 8.309e+05 / 91
p0 32.56 ± 8.338e−05
32.9
32.8
32.7
32.6
32.5
pull
Entries 92
Mean −206.4
Std Dev 0
300
200
100
0
−100

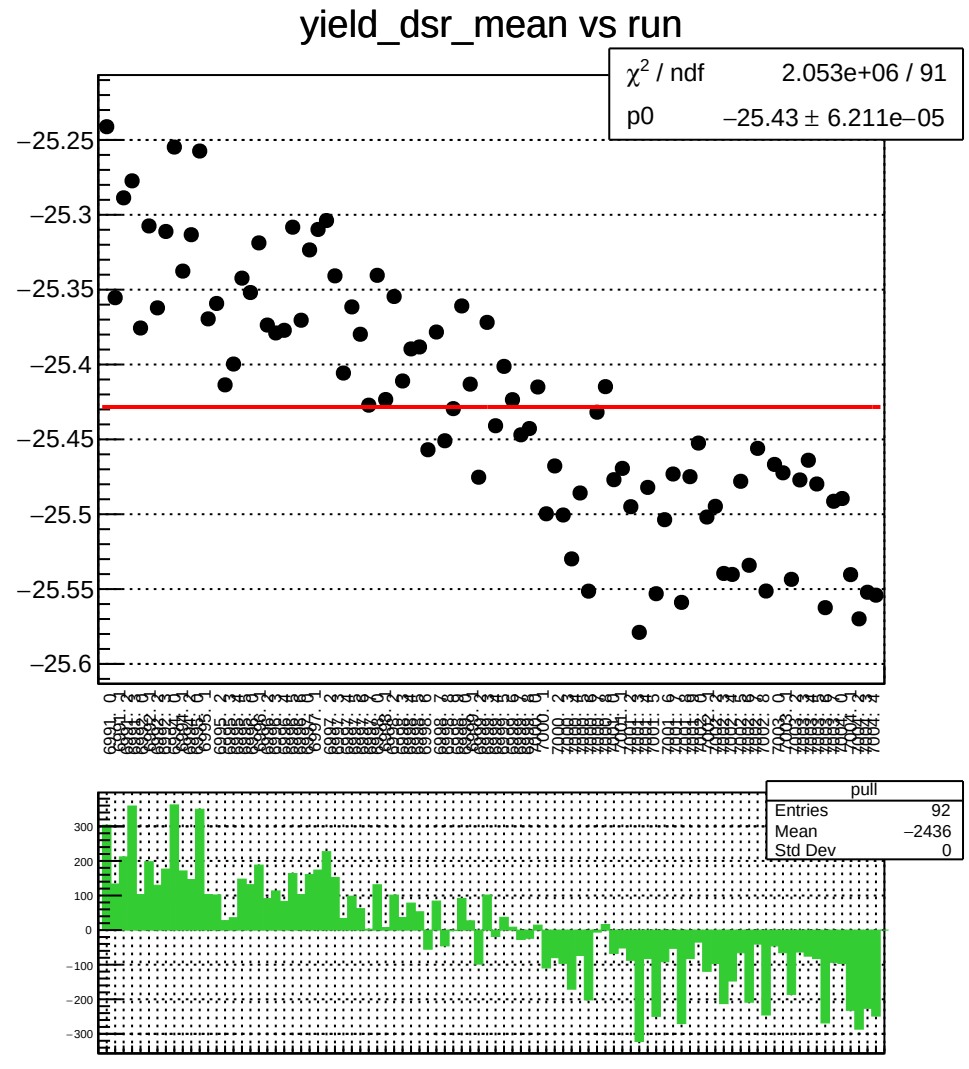

pull1D
Entries 92
Mean 0.6239
Std Dev 5.222
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

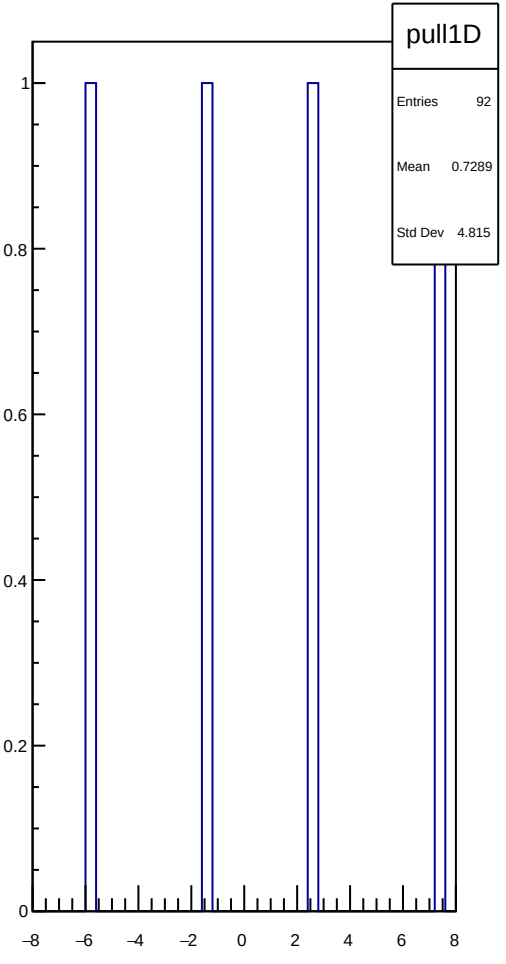

yield_usr_rms vs run
χ² / ndf 1.3e+05 / 91
p0 0.0754 ± 5.896e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

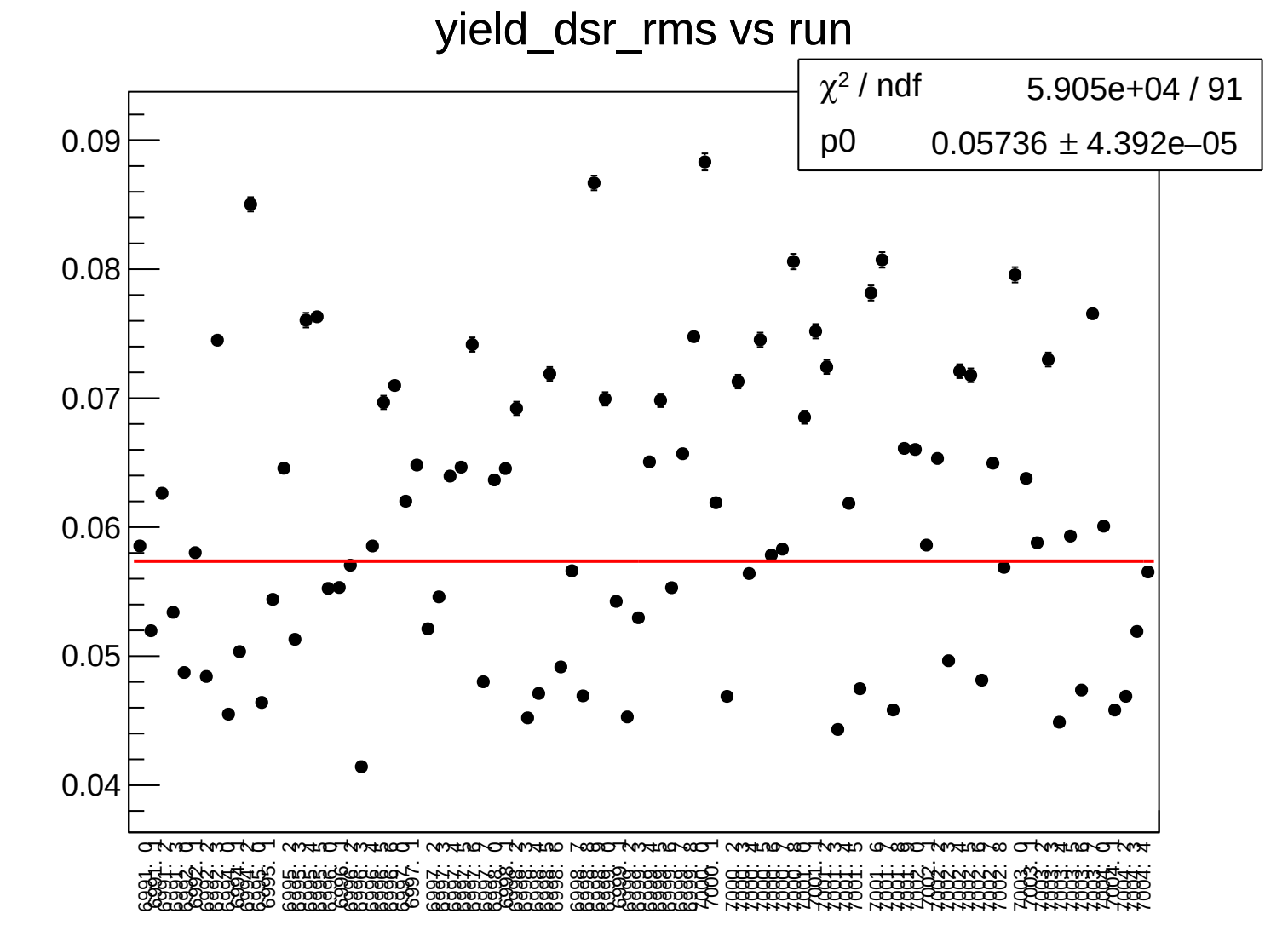

yield_dsl_mean vs run
χ² / ndf 3.275e+06 / 91
p0 −24.34 ± 5.971e−05
−24.1
−24.15
−24.2
−24.25
−24.3
−24.35
−24.4
−24.45
−24.5
−24.55
pull
Entries 92
Mean −576.5
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

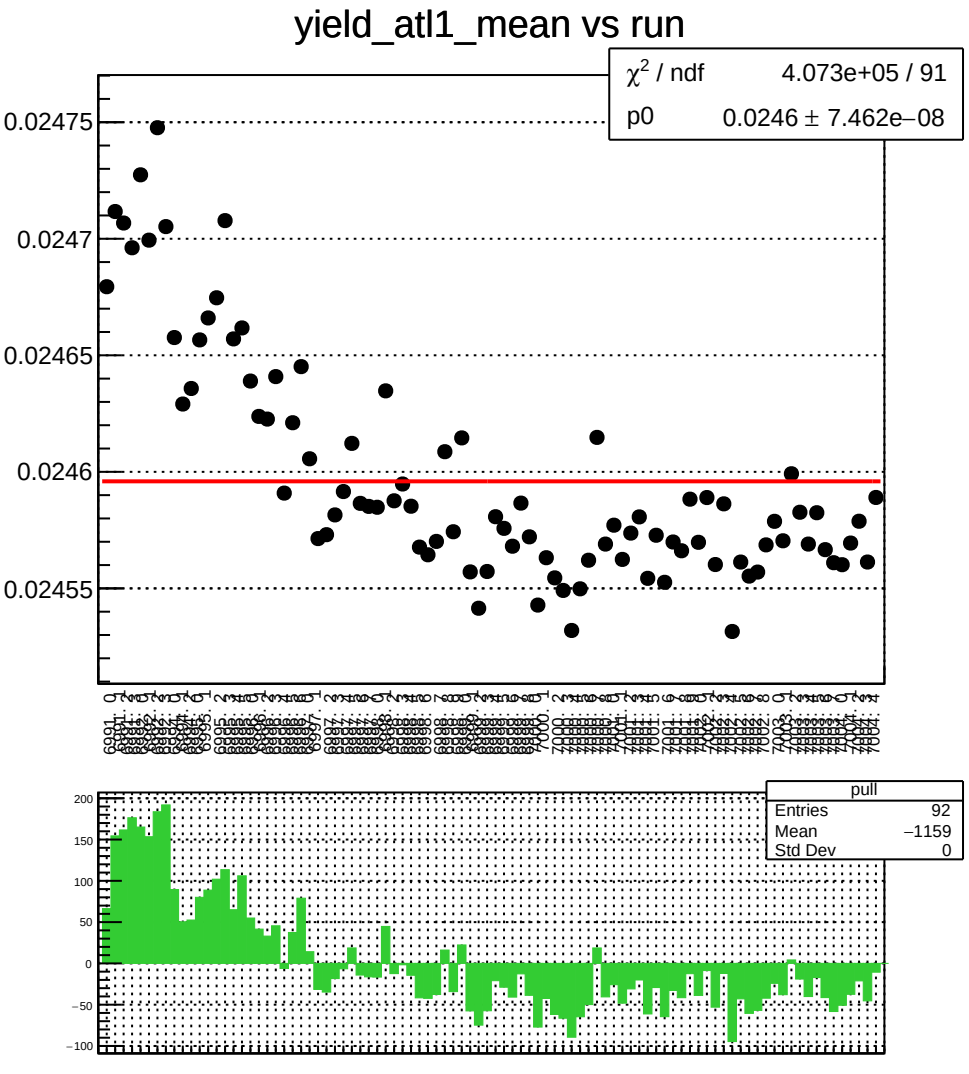

pull1D
Entries 92
Mean −0.5133
Std Dev 4.849
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

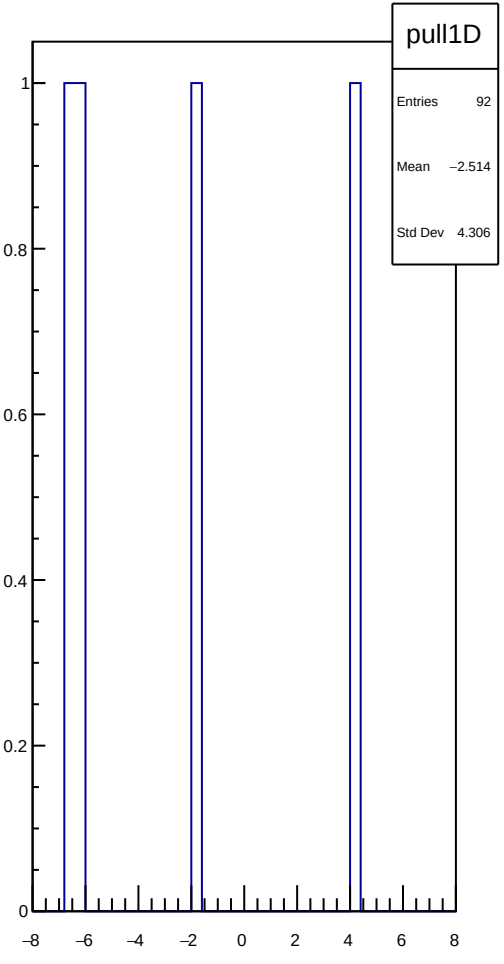

yield_dsl_rms vs run
χ² / ndf 6.462e+04 / 91
p0 0.05506 ± 4.222e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

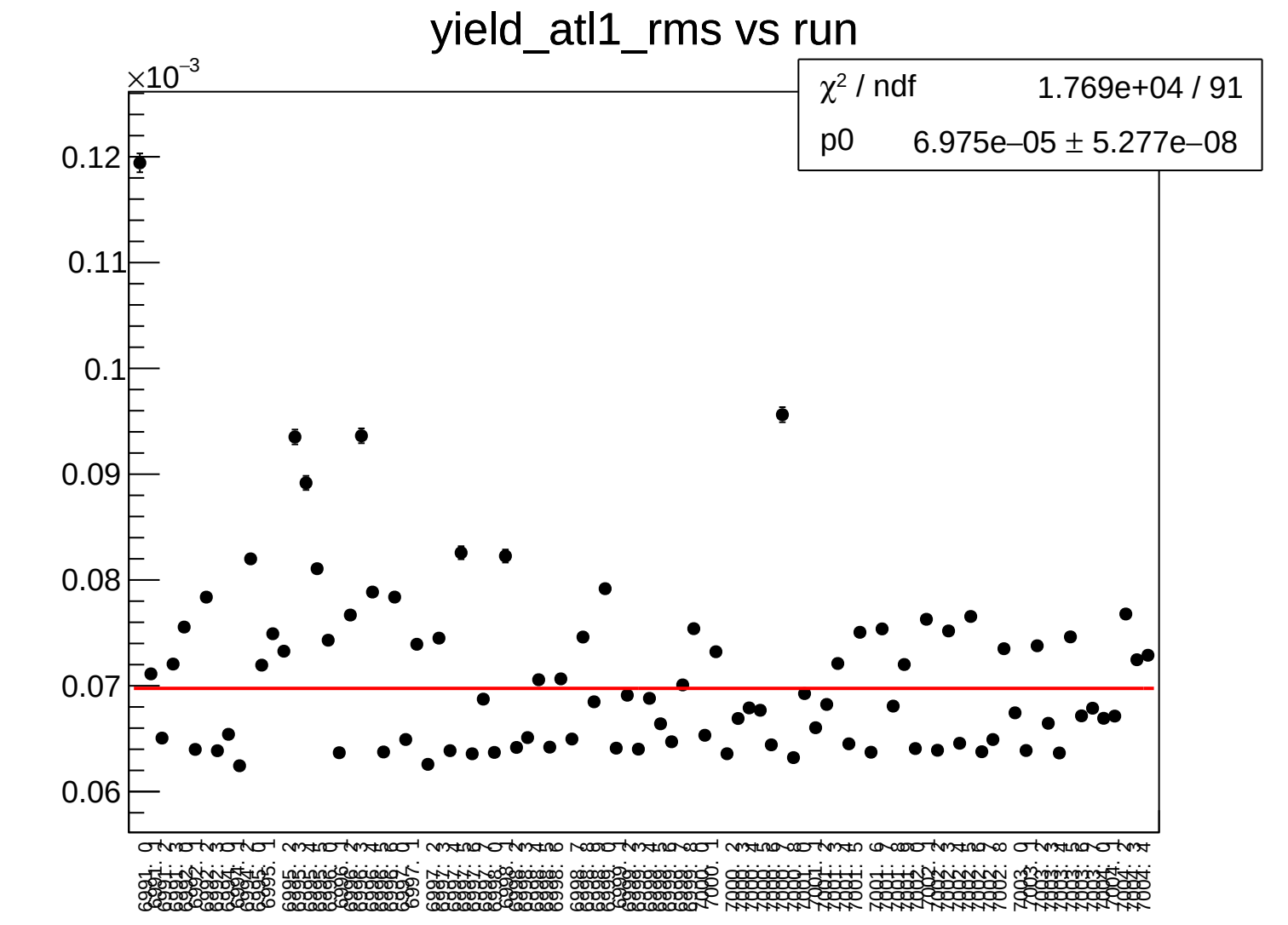

yield_dsr_mean vs run
χ² / ndf 2.053e+06 / 91
p0 −25.43 ± 6.211e−05
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
pull
Entries 92
Mean −2436
Std Dev 0
300
200
100
0
−100
−200
−300

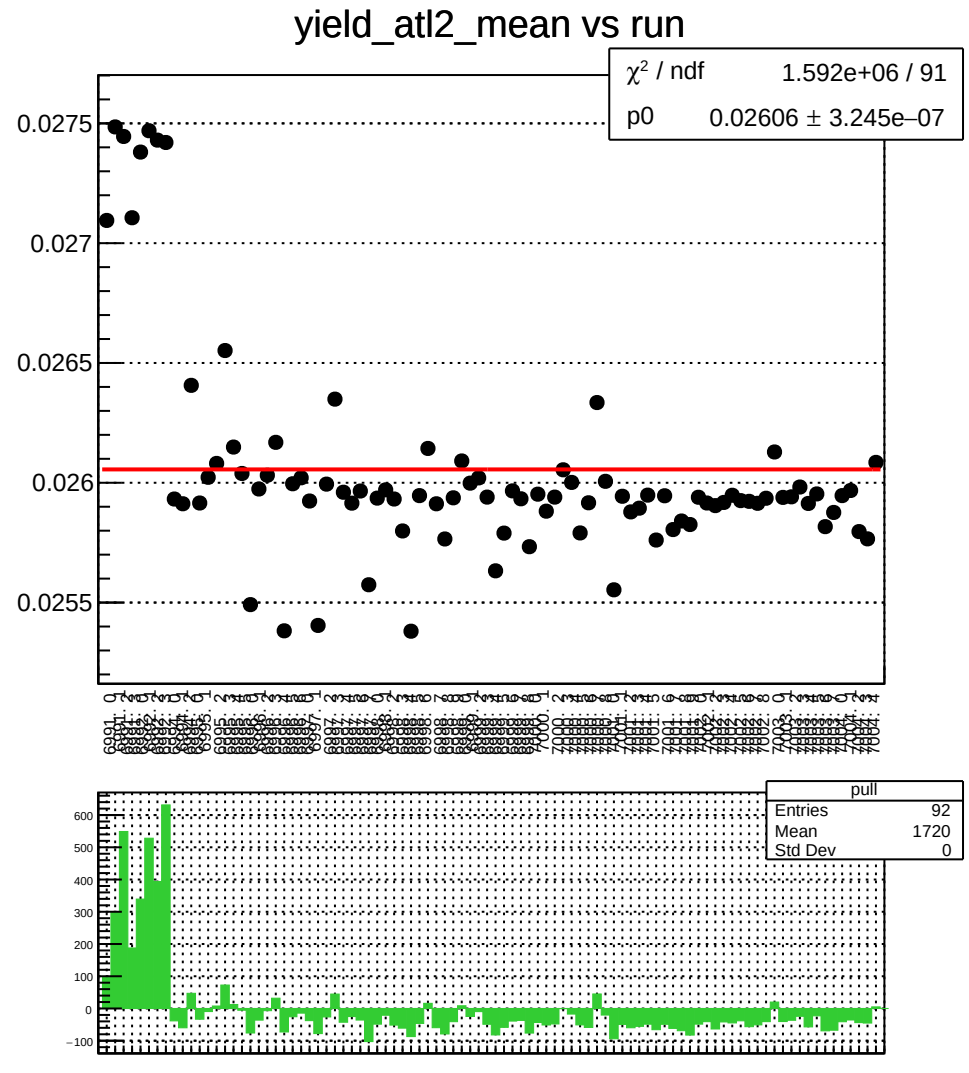

pull1D
Entries 92
Mean 0.7289
Std Dev 4.815
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

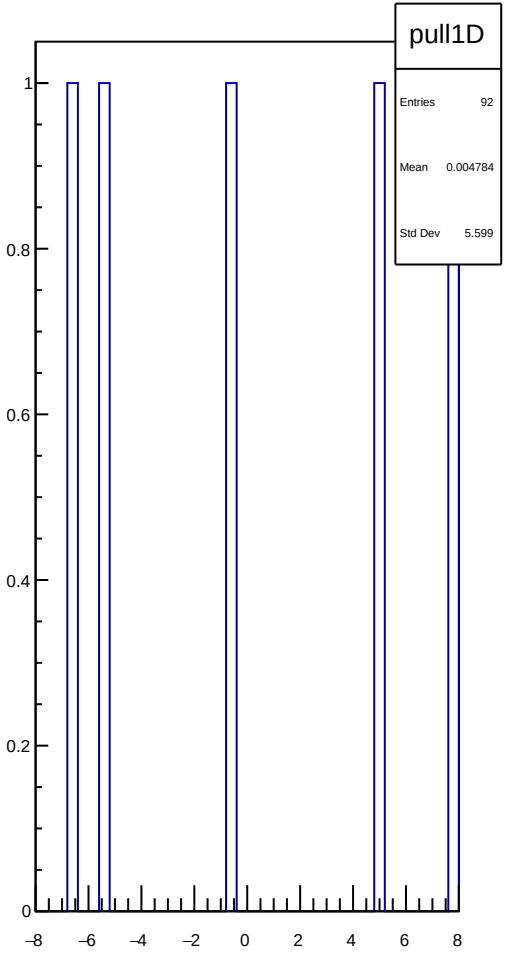

yield_dsr_rms vs run
χ² / ndf 5.905e+04 / 91
p0 0.05736 ± 4.392e−05
0.09
0.08
0.07
0.06
0.05
0.04

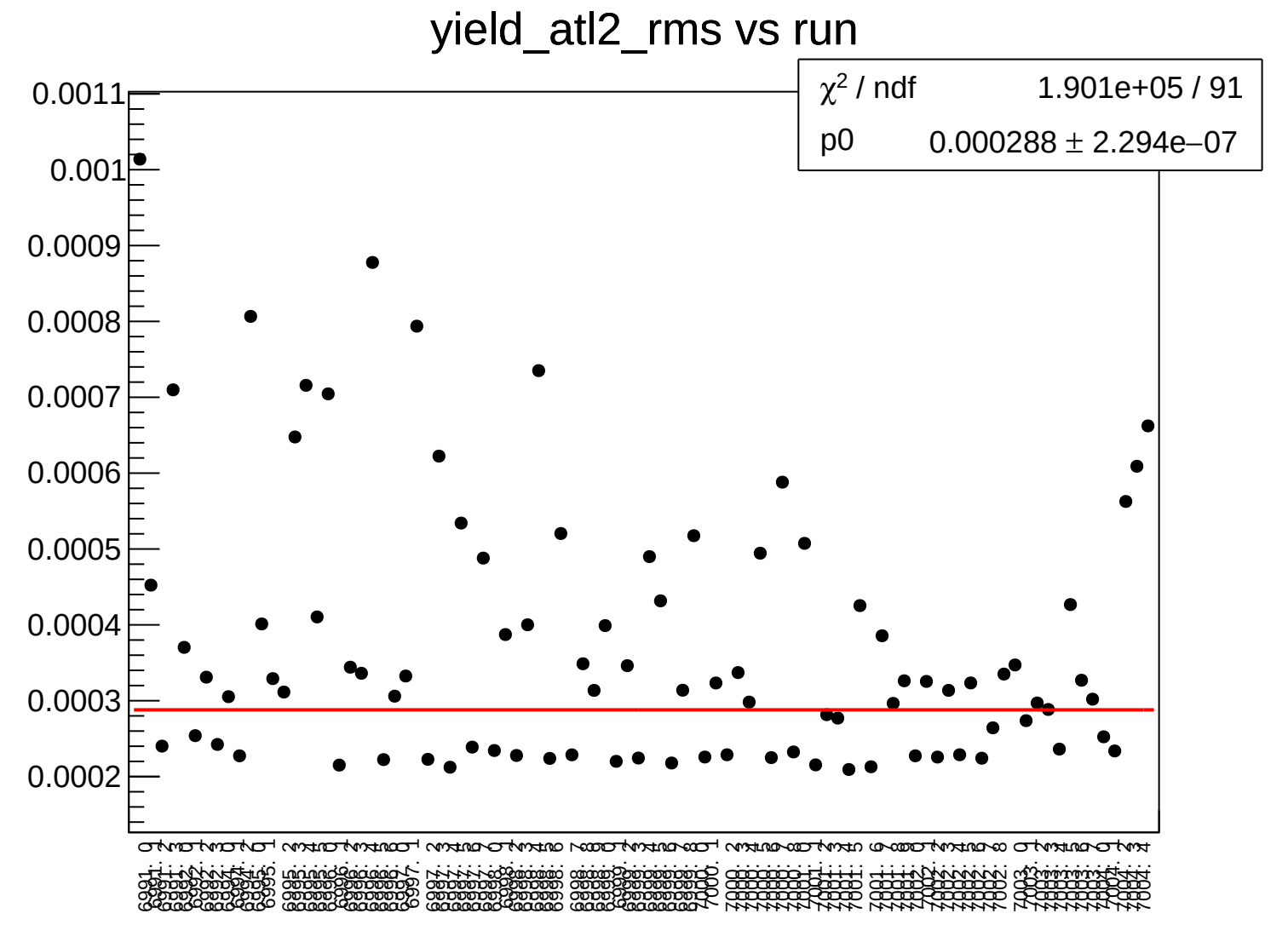

yield_atl1_mean vs run
χ² / ndf 4.073e+05 / 91
p0 0.0246 ± 7.462e−08
0.02475
0.0247
0.02465
0.0246
0.02455
pull
Entries 92
Mean −1159
Std Dev 0
200
150
100
50
0
−50
−100

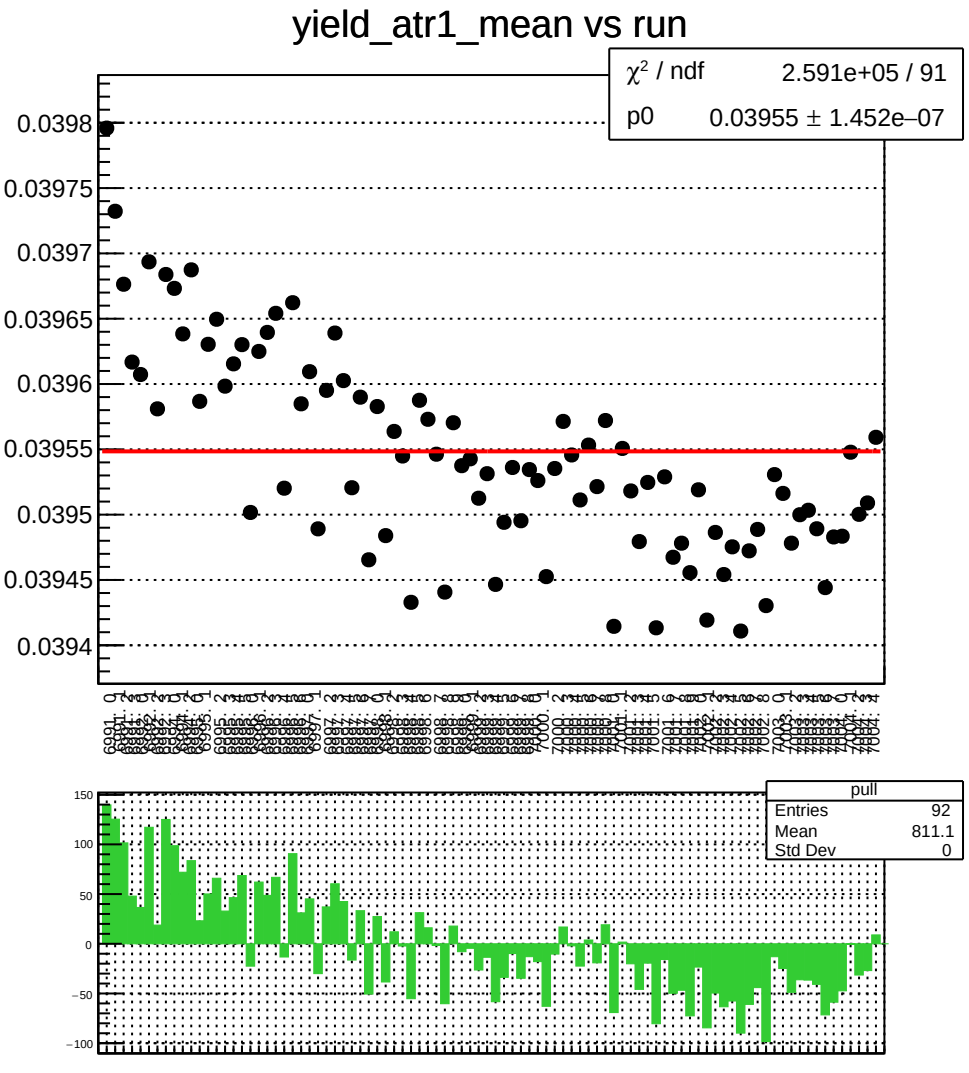

pull1D
Entries 92
Mean −2.514
Std Dev 4.306
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

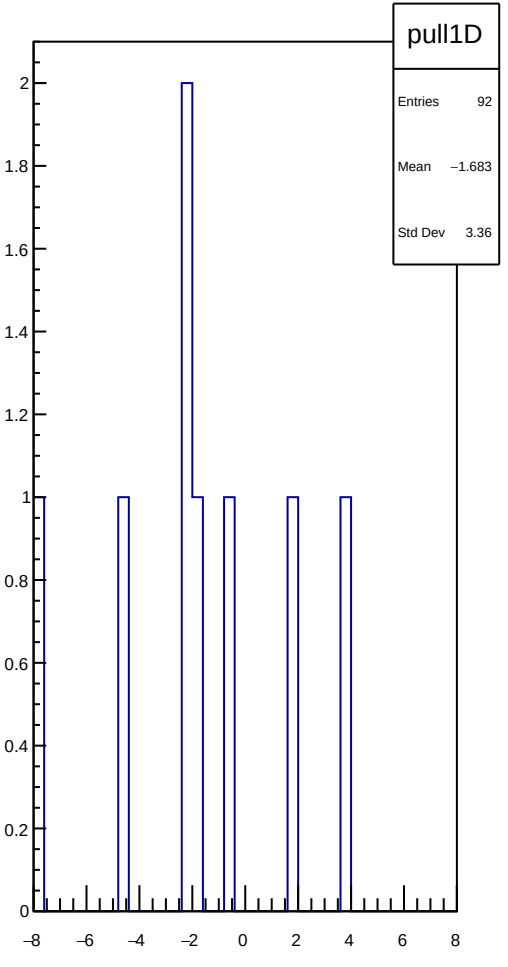

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.769e+04 / 91
p0 6.975e−05 ± 5.277e−08
0.12
0.11
0.1
0.09
0.08
0.07
0.06

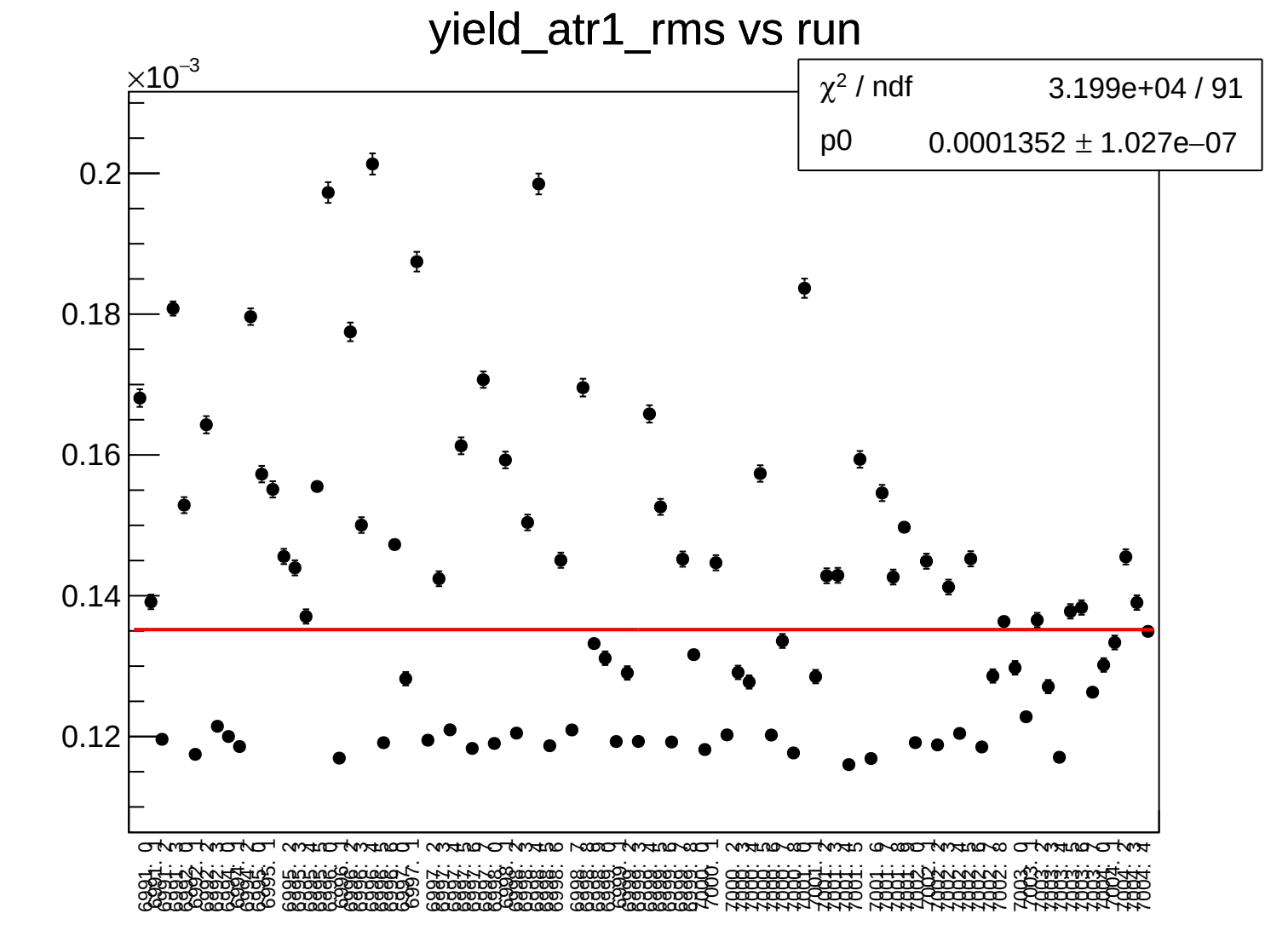

yield_atl2_mean vs run
χ² / ndf 1.592e+06 / 91
p0 0.02606 ± 3.245e−07
0.0275
0.027
0.0265
0.026
0.0255
pull
Entries 92
Mean 1720
Std Dev 0
600
500
400
300
200
100
0
−100

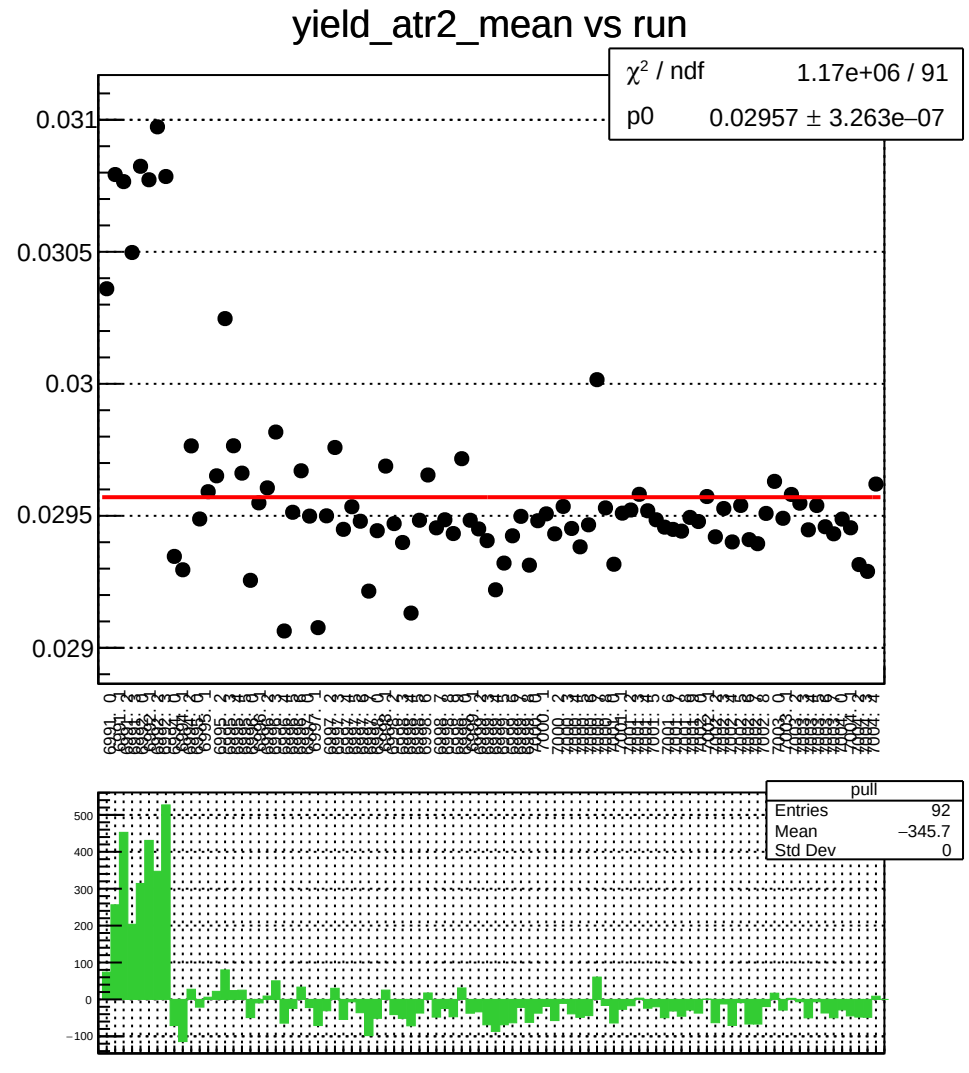

pull1D
Entries 92
Mean 0.004784
Std Dev 5.599
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

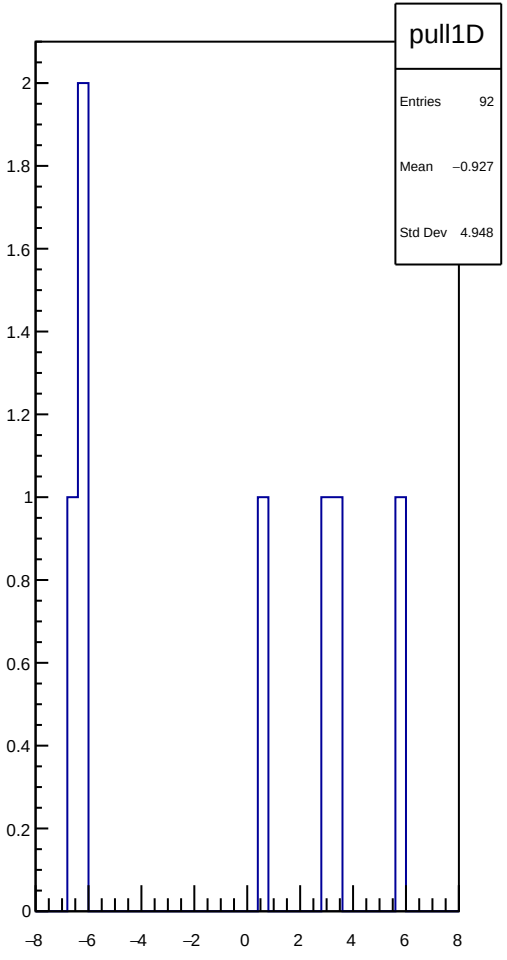

yield_atl2_rms vs run
χ² / ndf 1.901e+05 / 91
p0 0.000288 ± 2.294e−07
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002

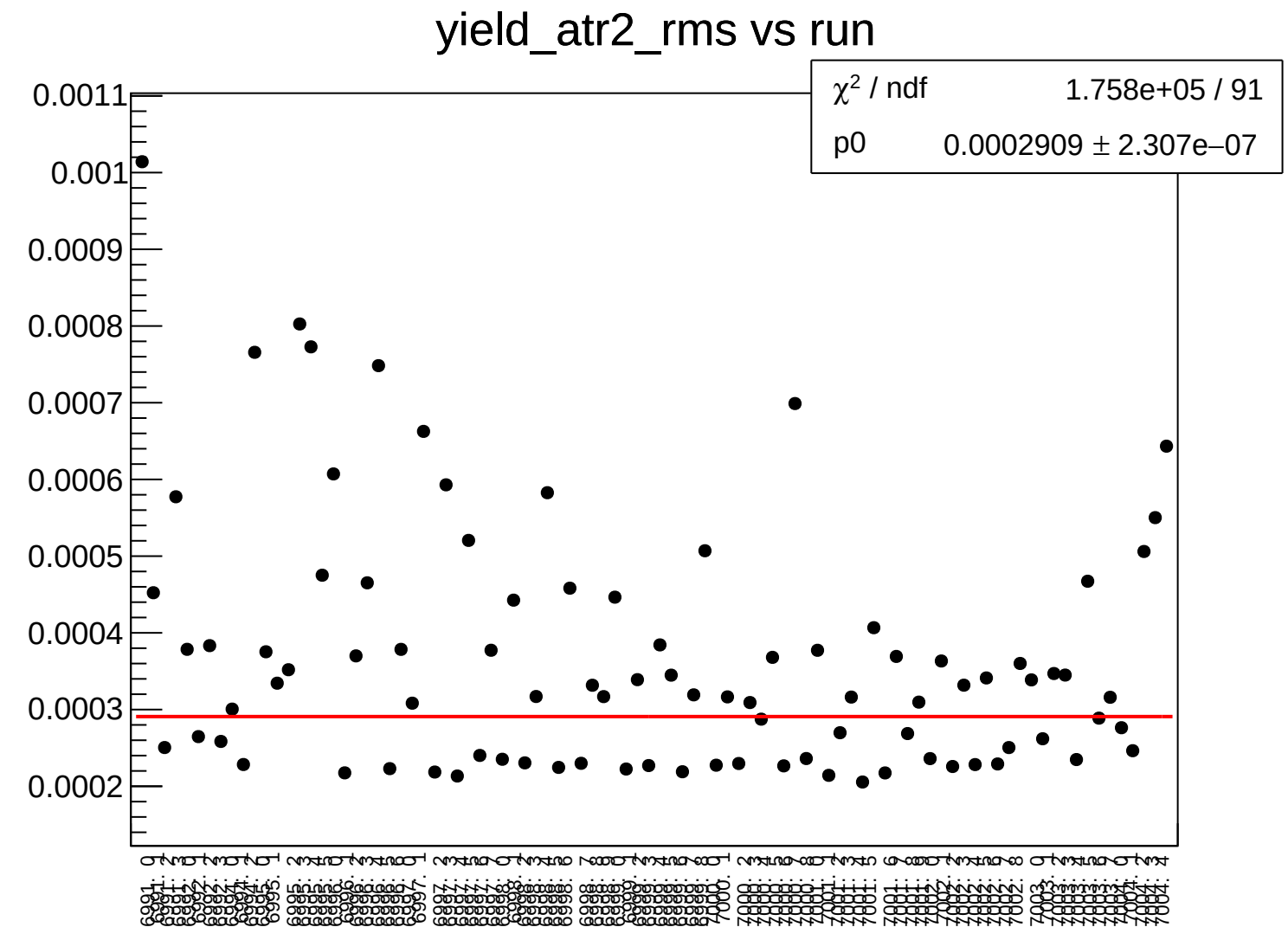

yield_atr1_mean vs run
χ² / ndf 2.591e+05 / 91
p0 0.03955 ± 1.452e−07
0.0398
0.03975
0.0397
0.03965
0.0396
0.03955
0.0395
0.03945
0.0394
pull
Entries 92
Mean 811.1
Std Dev 0
150
100
50
0
−50
−100

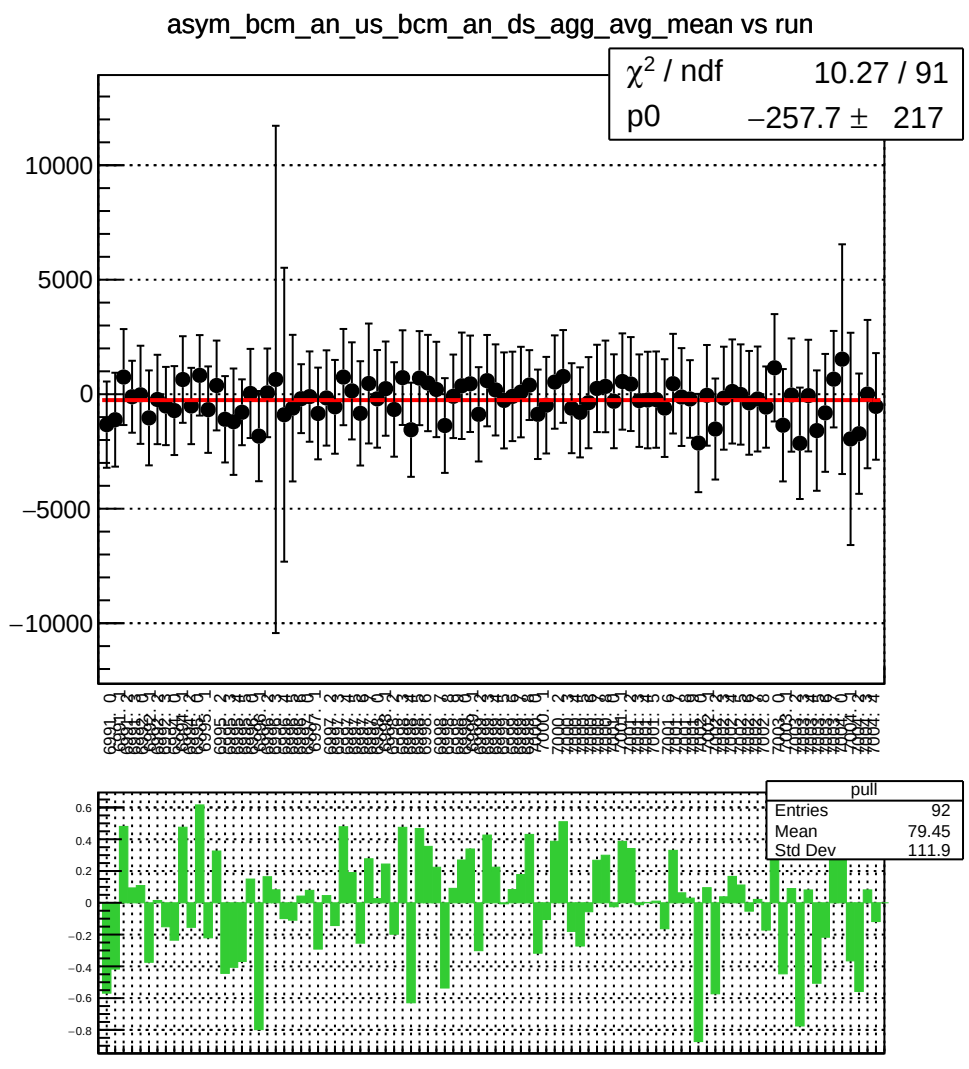

pull1D
Entries 92
Mean −1.683
Std Dev 3.36
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

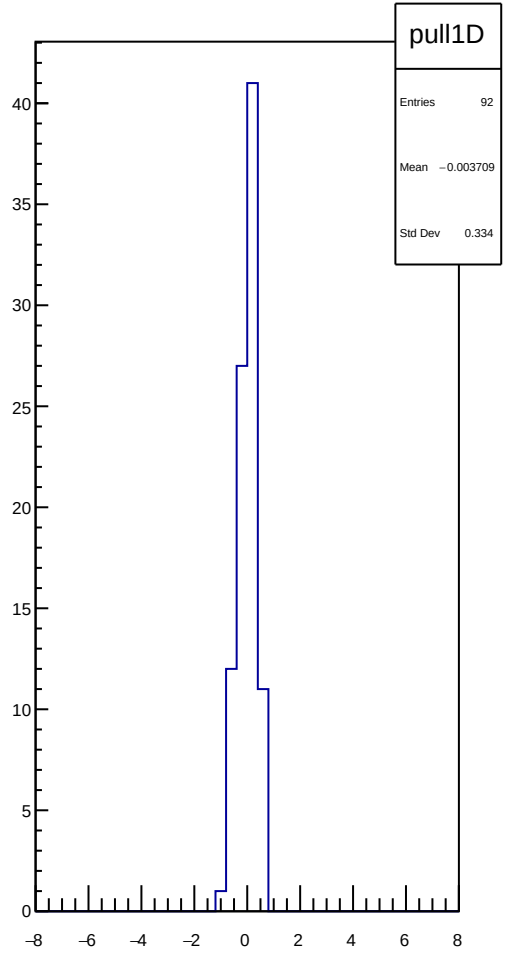

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.199e+04 / 91
p0 0.0001352 ± 1.027e−07
0.2
0.18
0.16
0.14
0.12

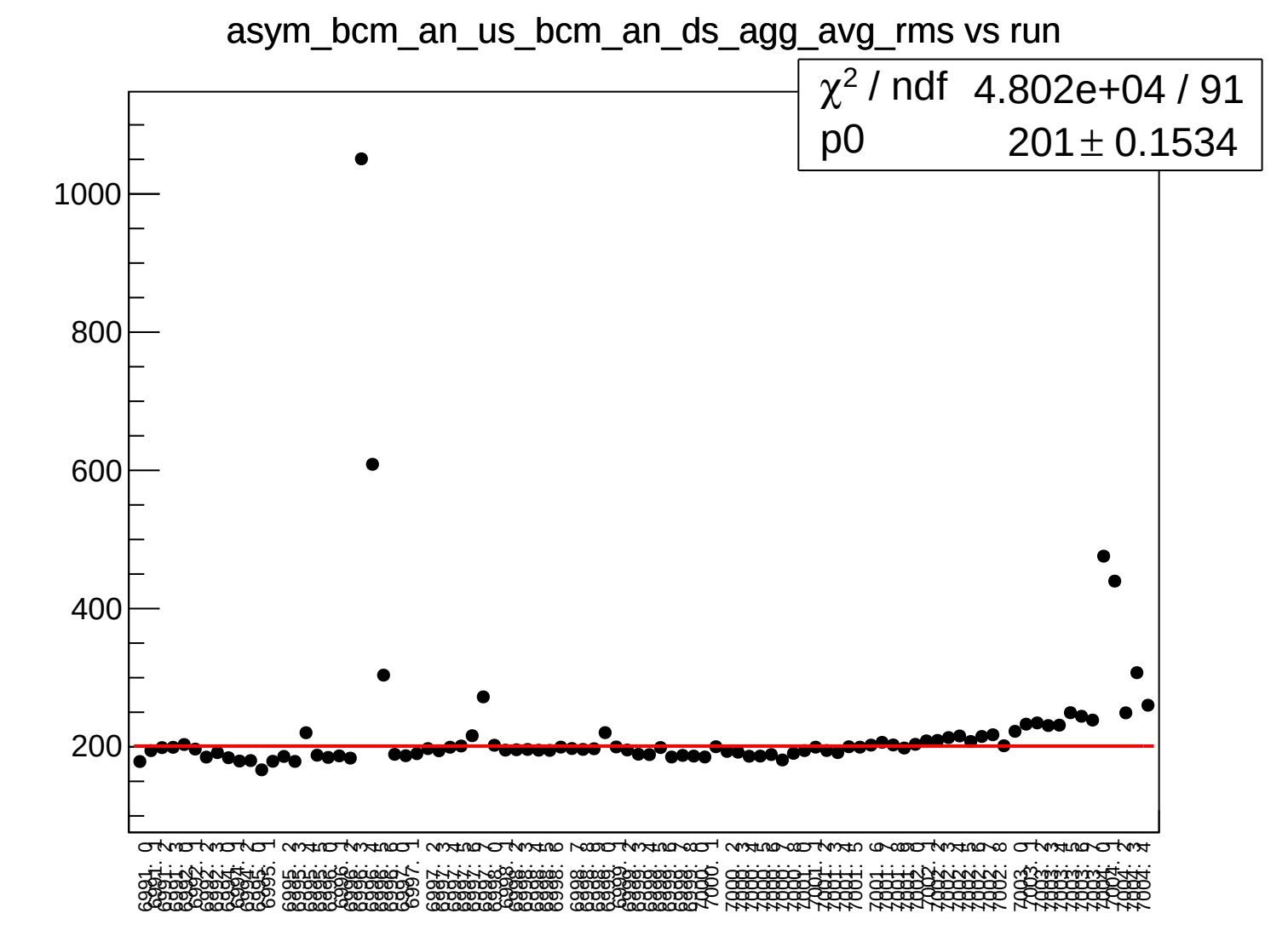

yield_atr2_mean vs run
χ² / ndf 1.17e+06 / 91
p0 0.02957 ± 3.263e−07
0.031
0.0305
0.03
0.0295
0.029
pull
Entries 92
Mean −345.7
Std Dev 0
500
400
300
200
100
0
−100

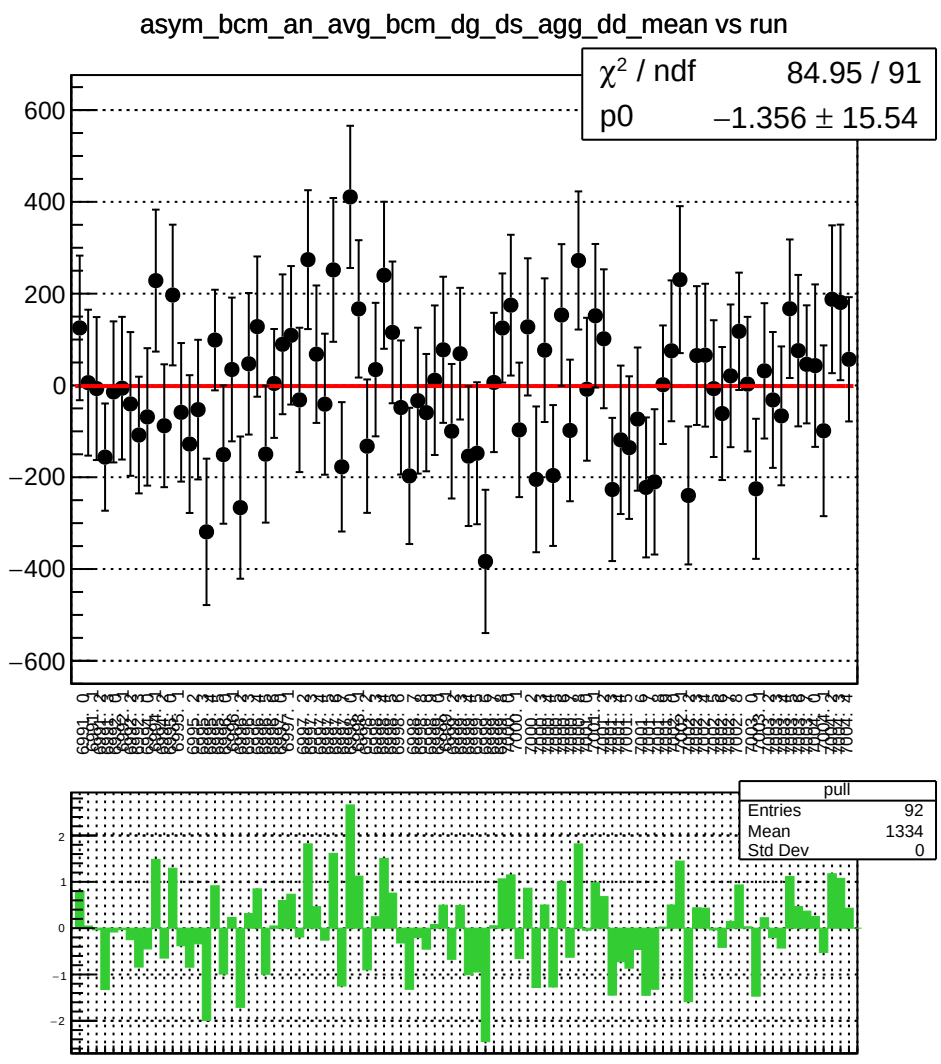

pull1D
Entries 92
Mean −0.927
Std Dev 4.948
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

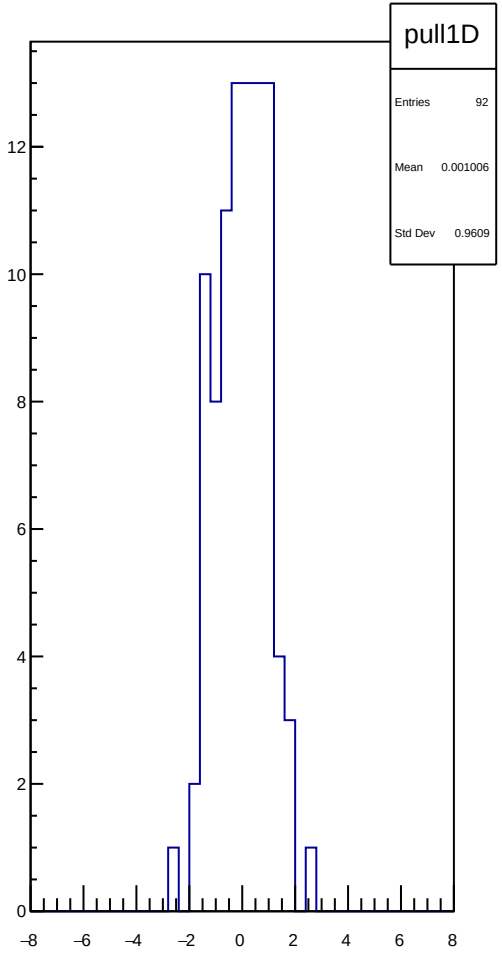

yield_atr2_rms vs run
χ² / ndf 1.758e+05 / 91
p0 0.0002909 ± 2.307e−07
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002

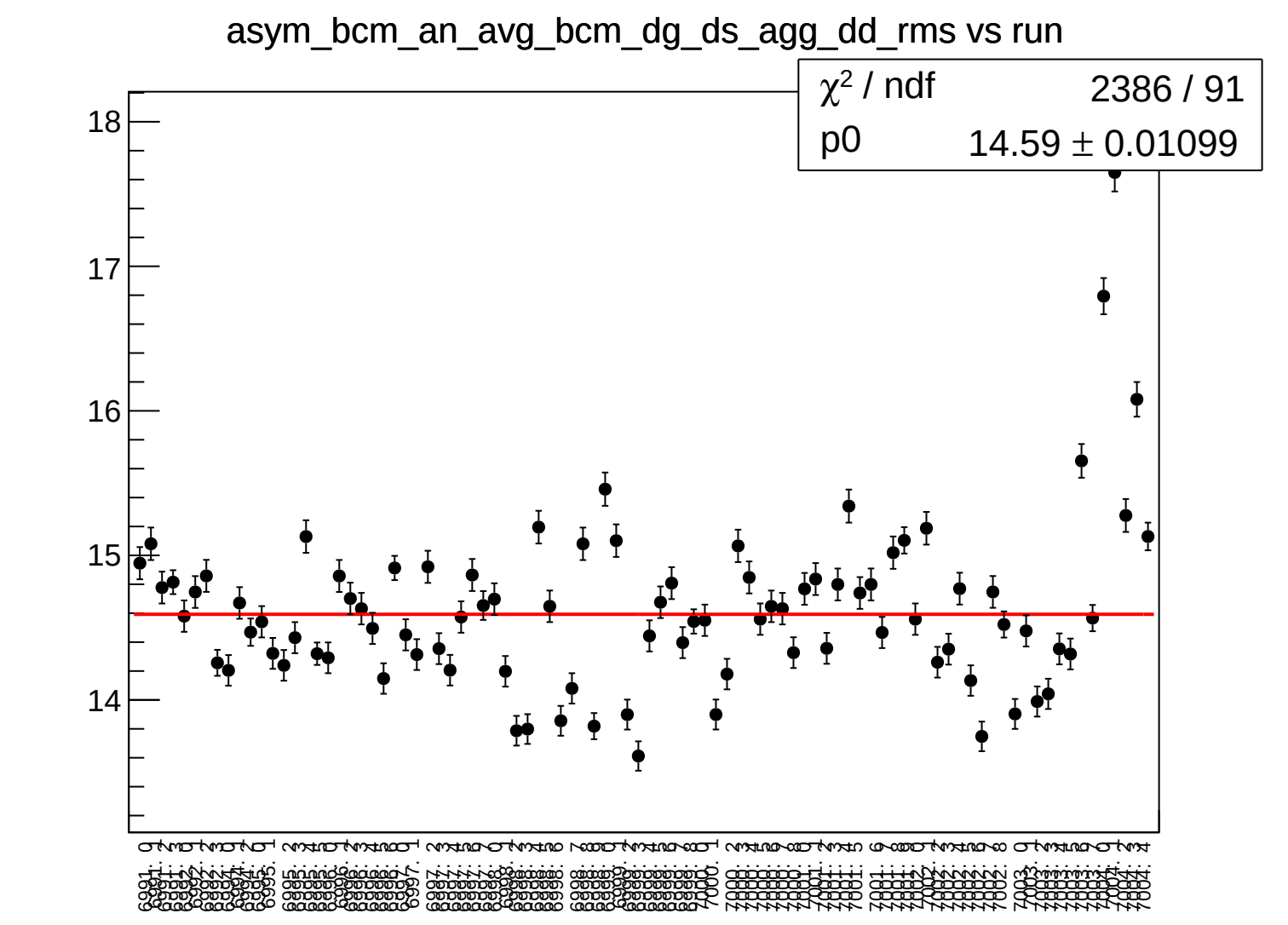

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.27 / 91
p0 −257.7 ± 217
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 79.45
Std Dev 111.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

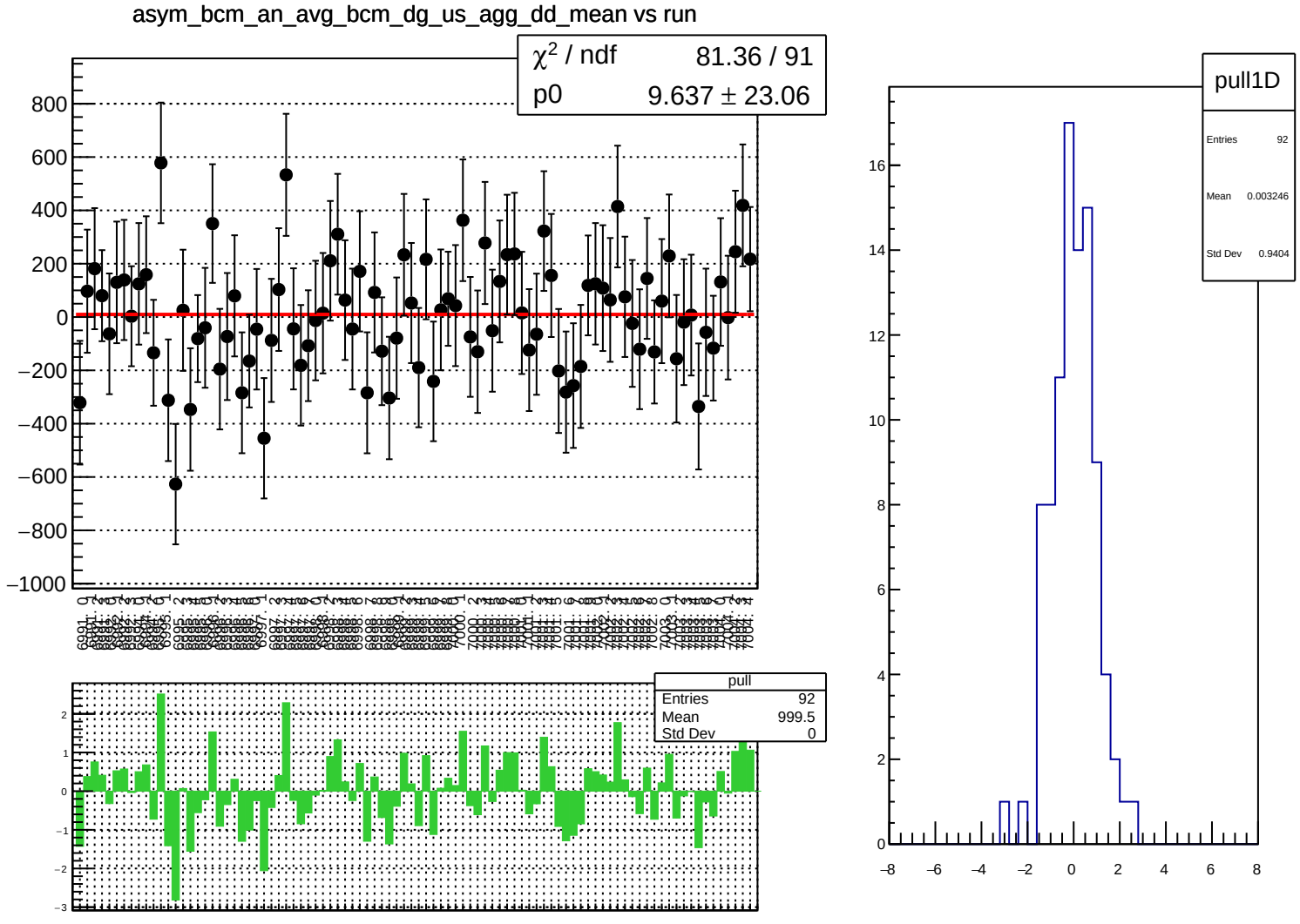

pull1D
Entries 92
Mean −0.003709
Std Dev 0.334
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

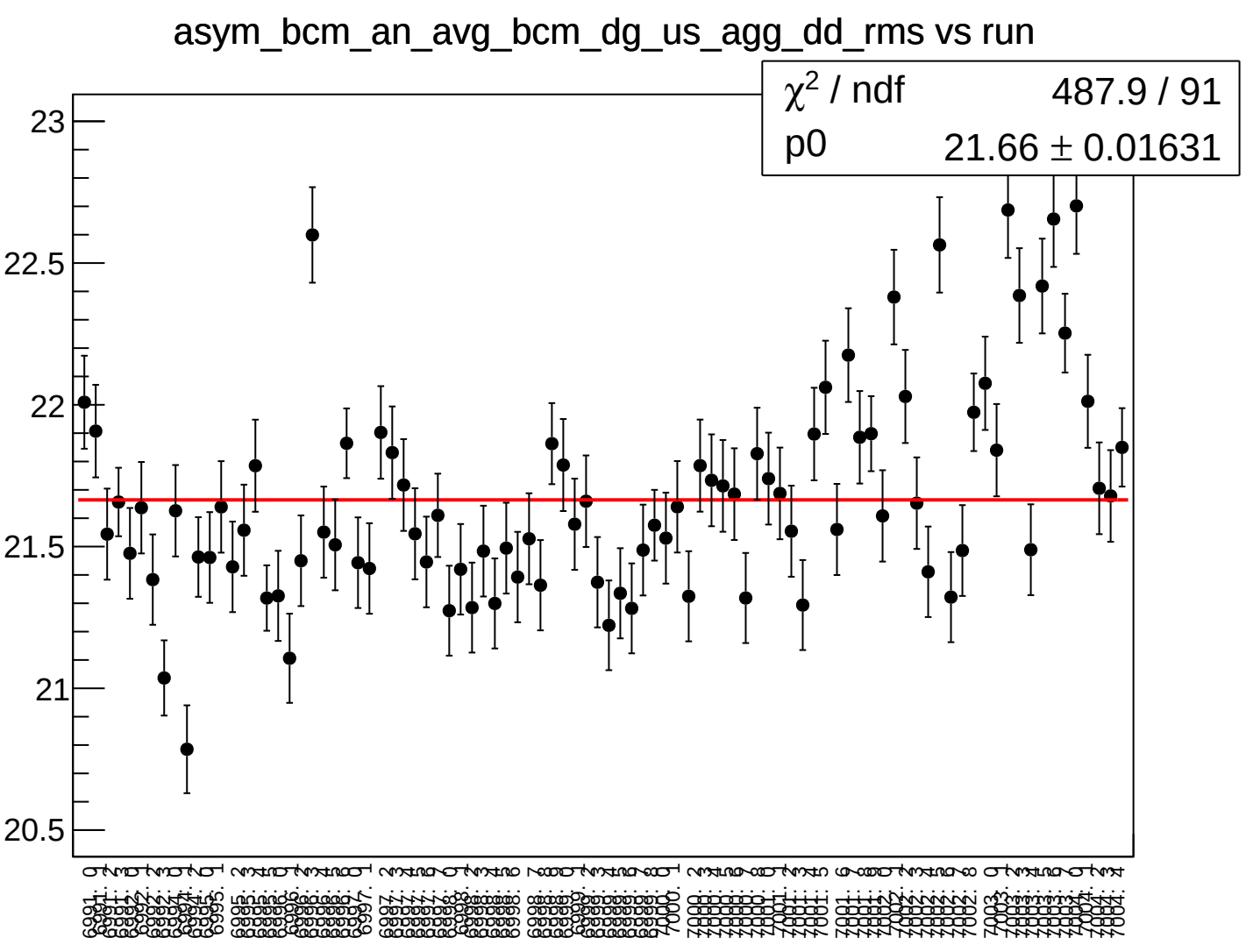

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.802e+04 / 91
p0 201 ± 0.1534
1000
800
600
400
200

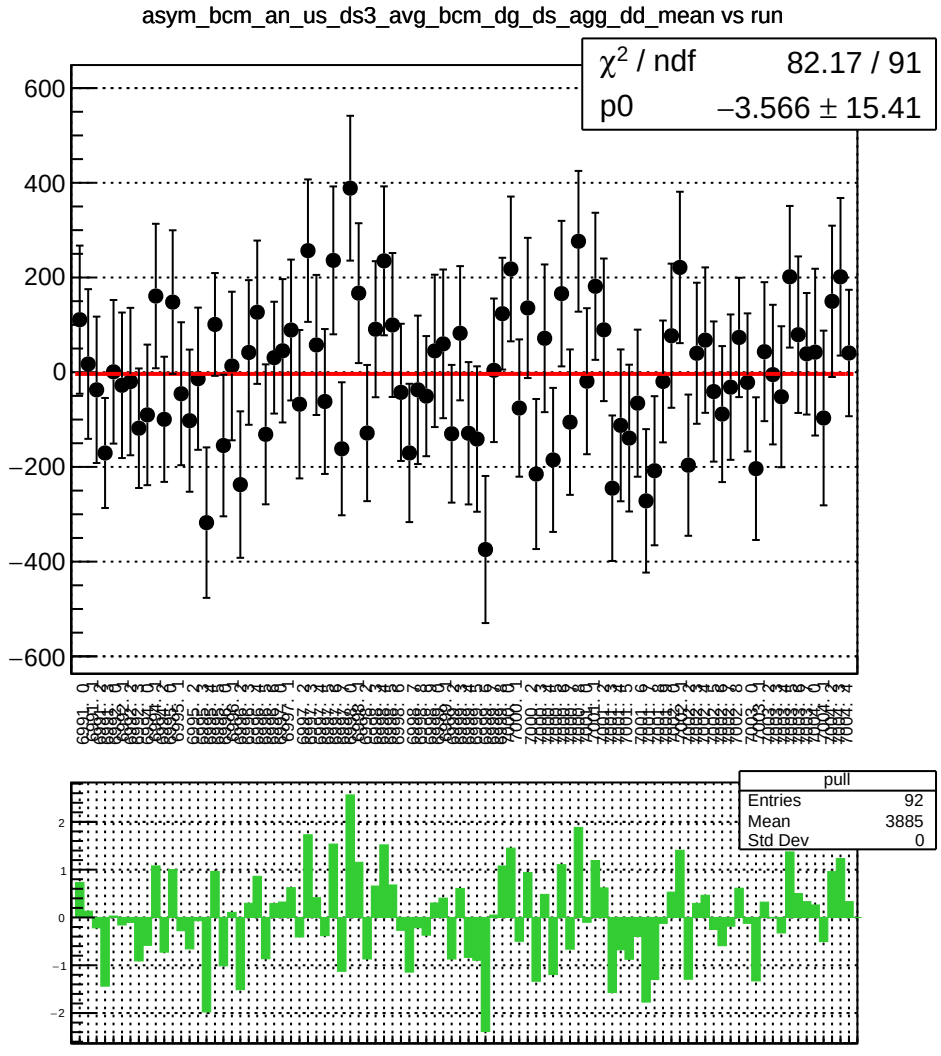

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 84.95 / 91
p0 −1.356 ± 15.54
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean 1334
Std Dev 0
2
1
0
−1
−2

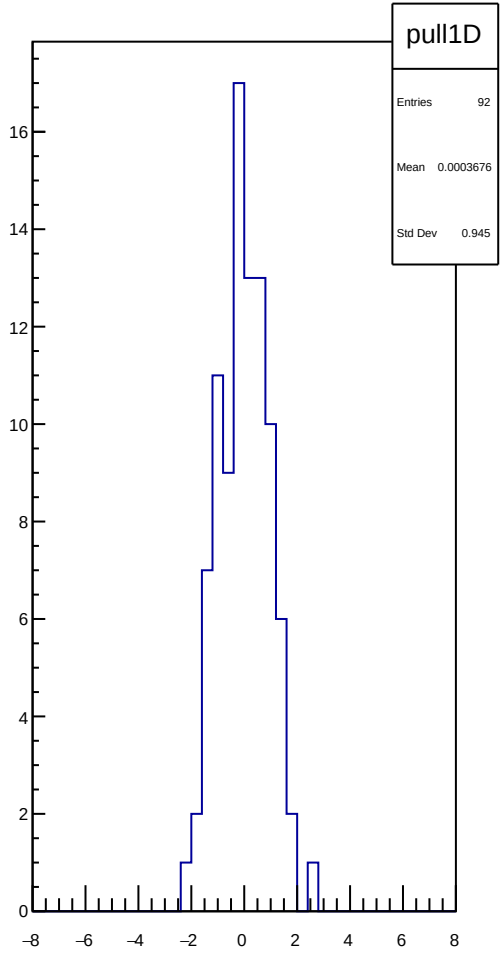

pull1D
Entries 92
Mean 0.001006
Std Dev 0.9609
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

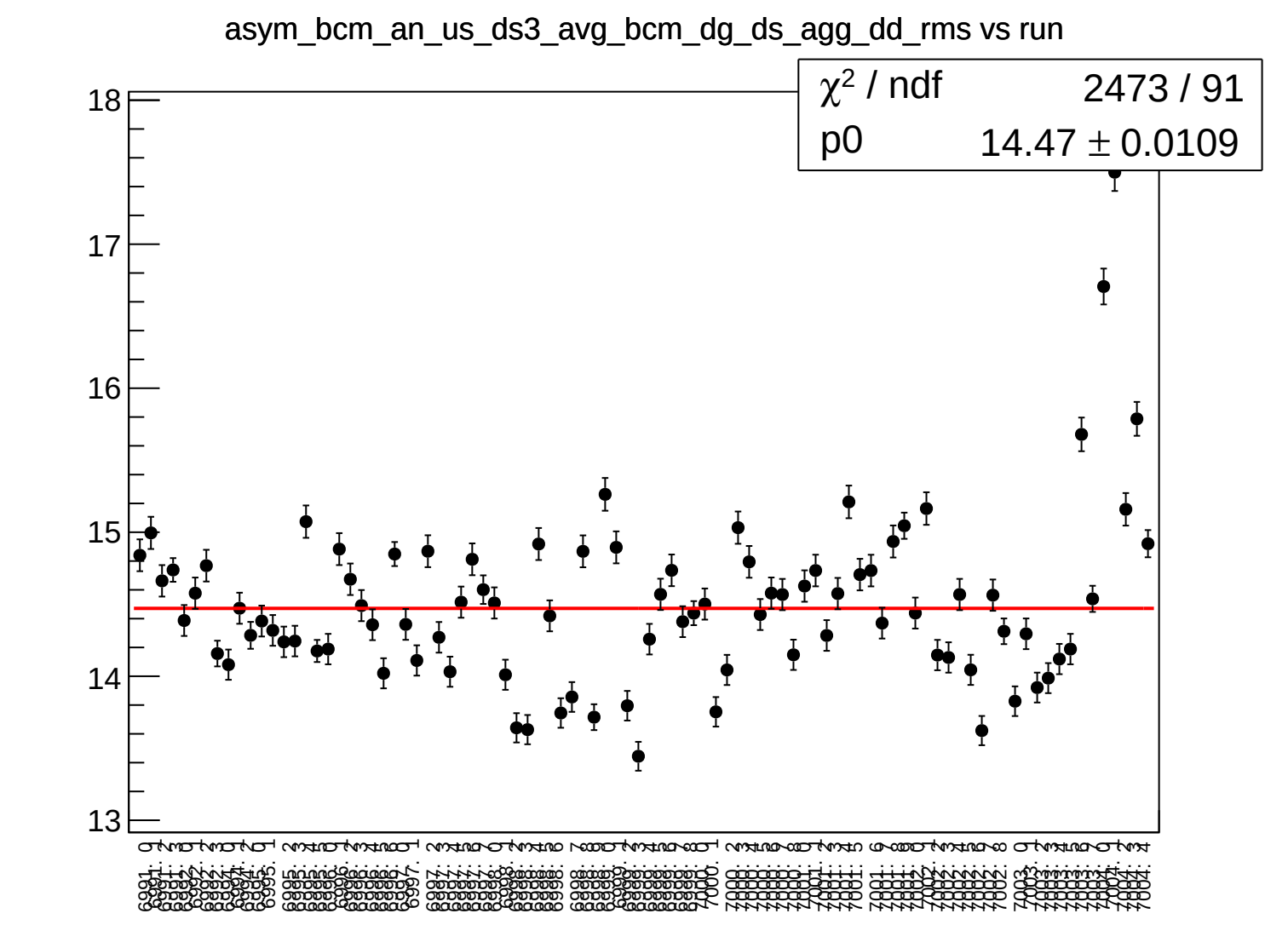

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2386 / 91
p0 14.59 ± 0.01099
18
17
16
15
14

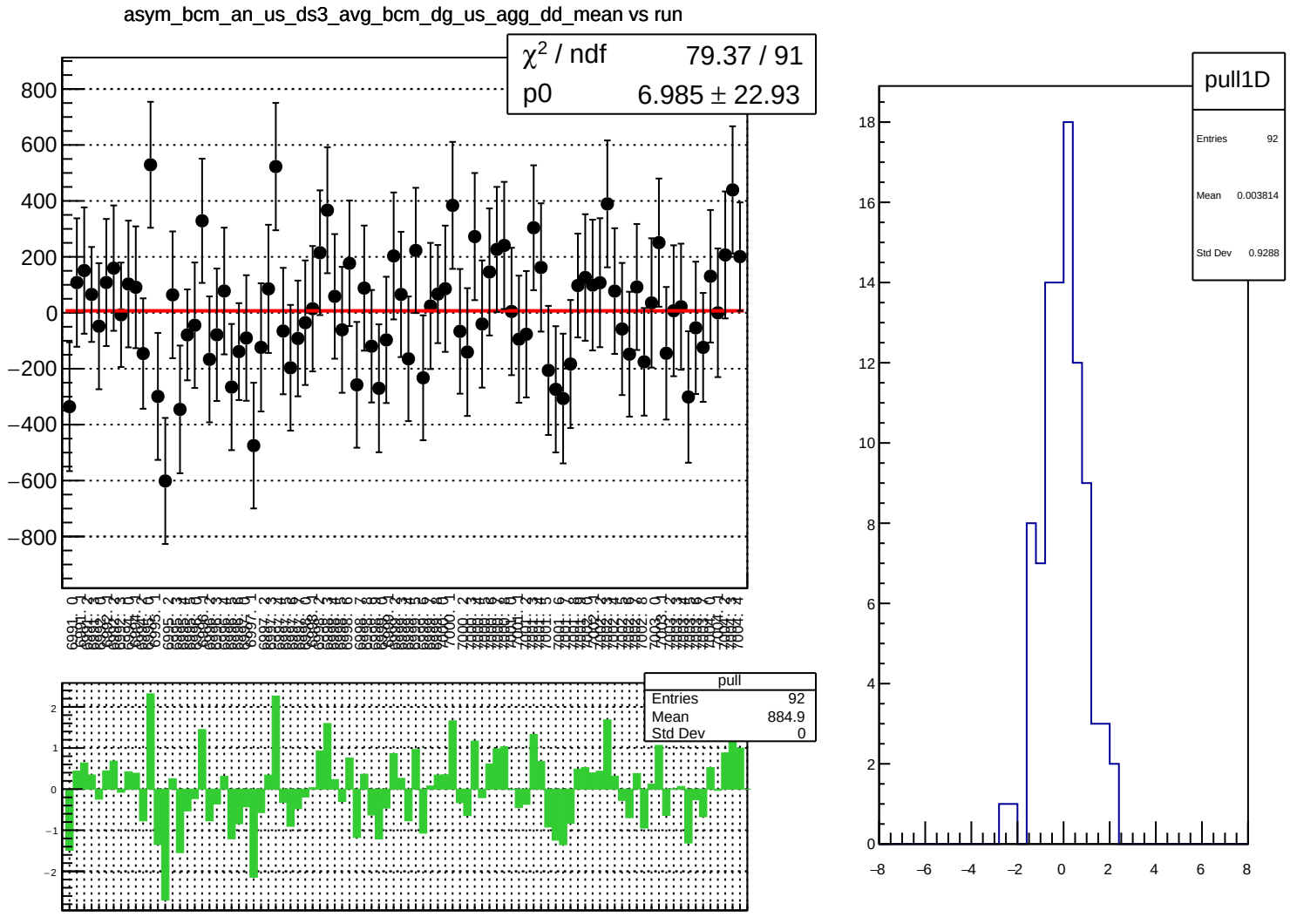

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 81.36 / 91
p0 9.637 ± 23.06
pull
Entries 92
Mean 999.5
Std Dev 0
pull1D
Entries 92
Mean 0.003246
Std Dev 0.9404

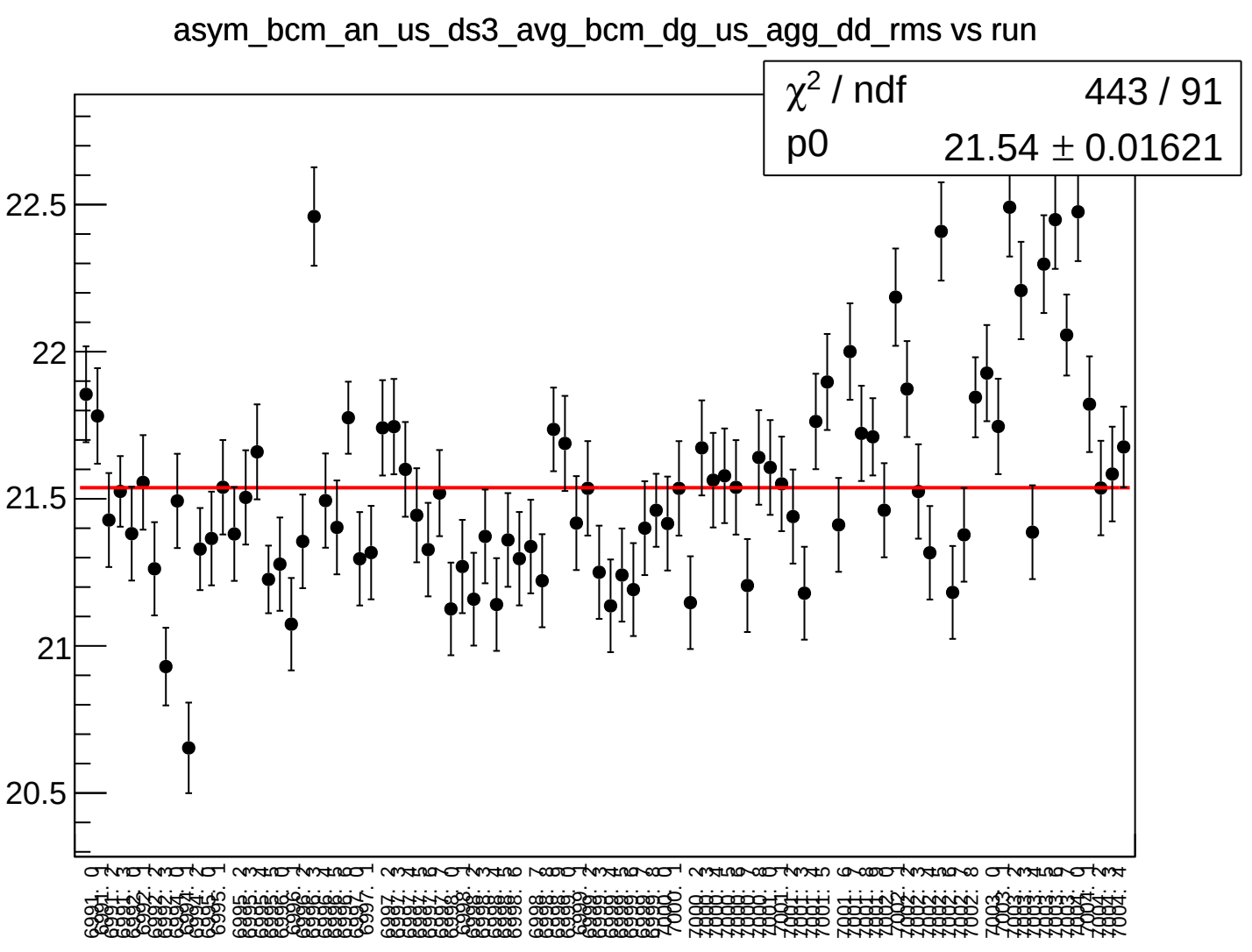

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 487.9 / 91
p0 21.66 ± 0.01631
23
22.5
22
21.5
21
20.5

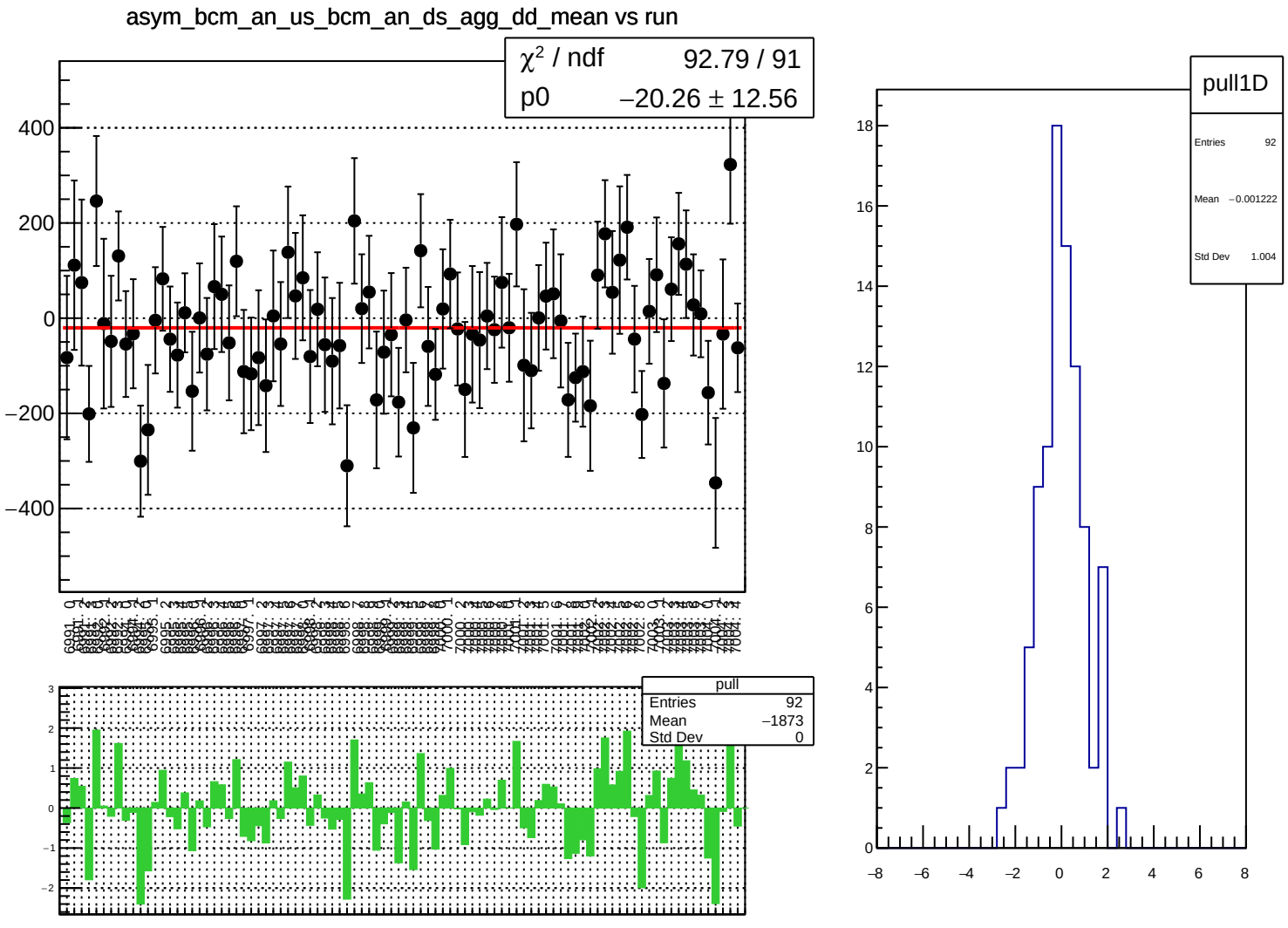

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 82.17 / 91
p0 −3.566 ± 15.41
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean 3885
Std Dev 0
2
1
0
−1
−2

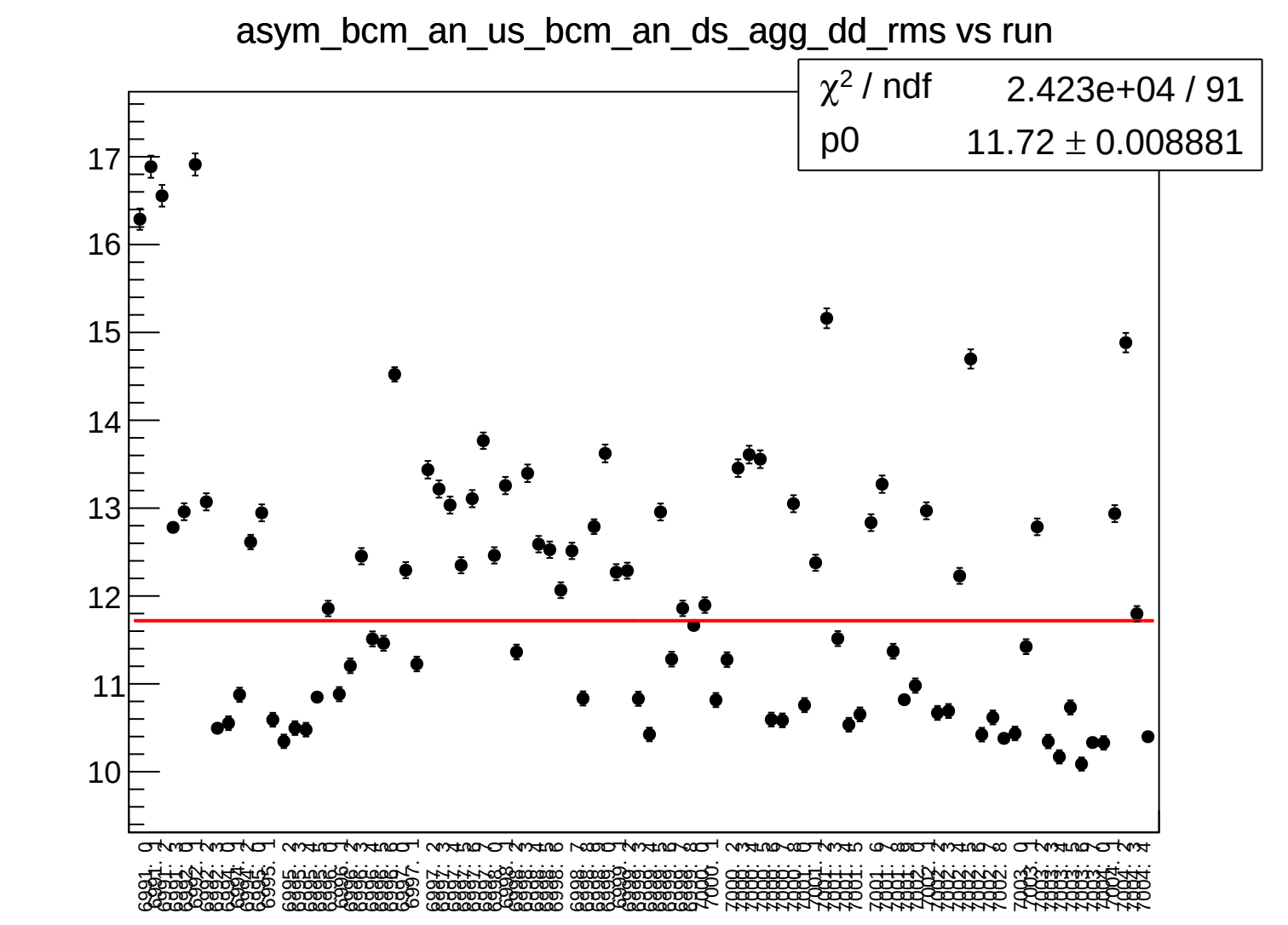

pull1D
Entries 92
Mean 0.0003676
Std Dev 0.945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

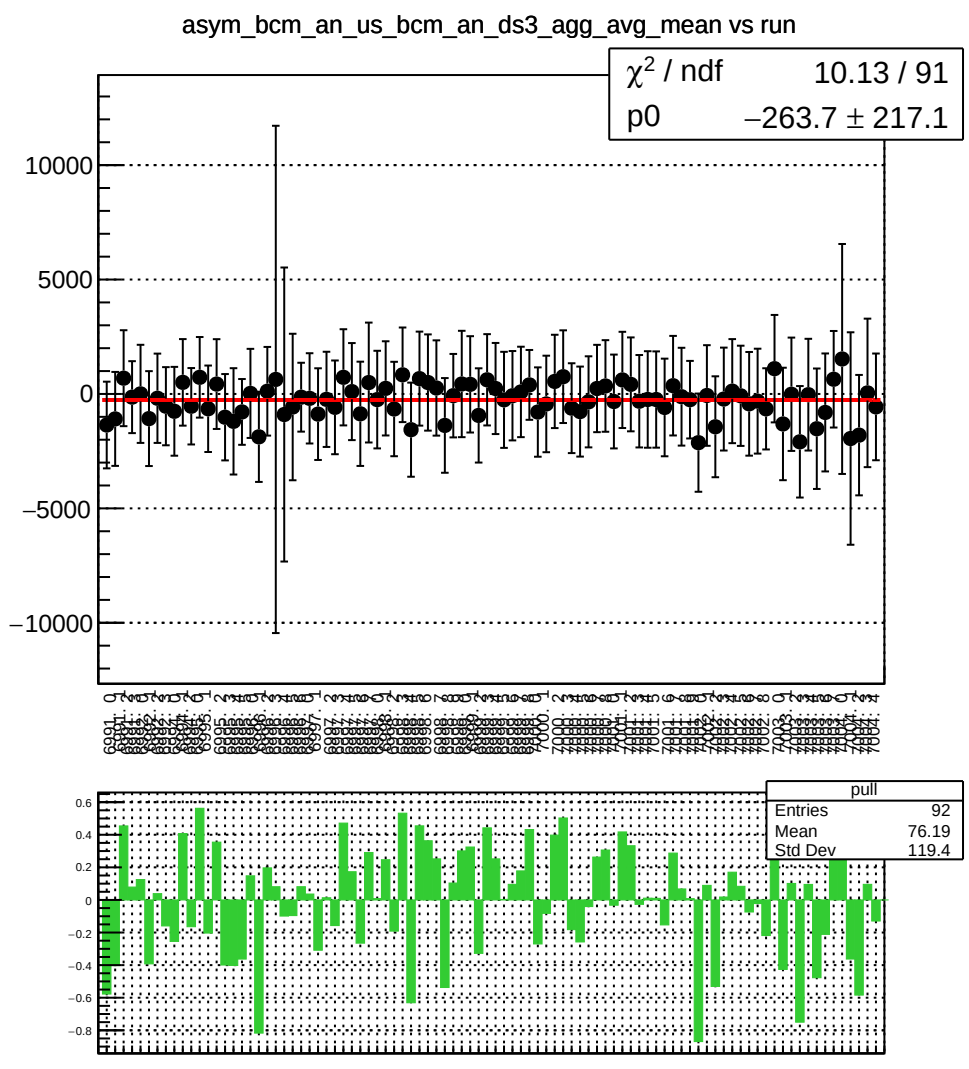

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2473 / 91
p0 14.47 ± 0.0109
18
17
16
15
14
13

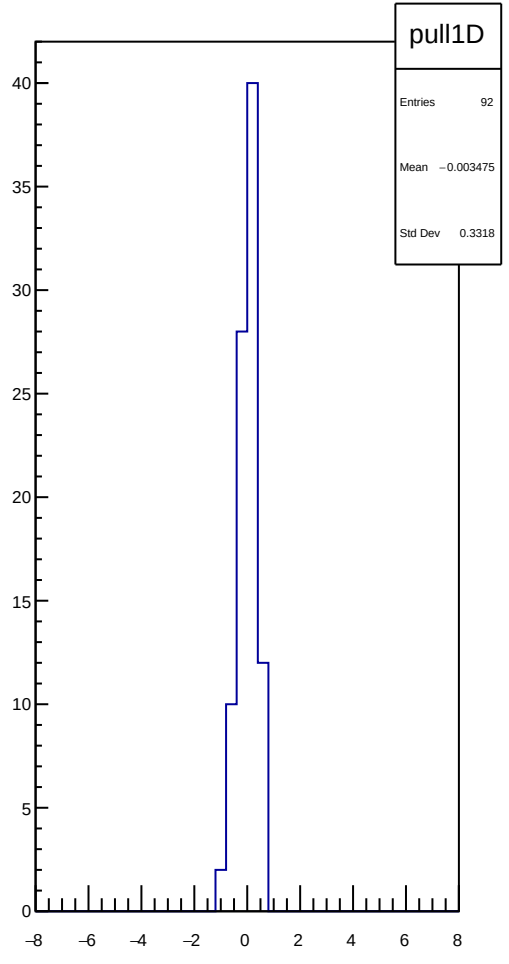

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 79.37 / 91
p0 6.985 ± 22.93
pull
Entries 92
Mean 884.9
Std Dev 0
pull1D
Entries 92
Mean 0.003814
Std Dev 0.9288

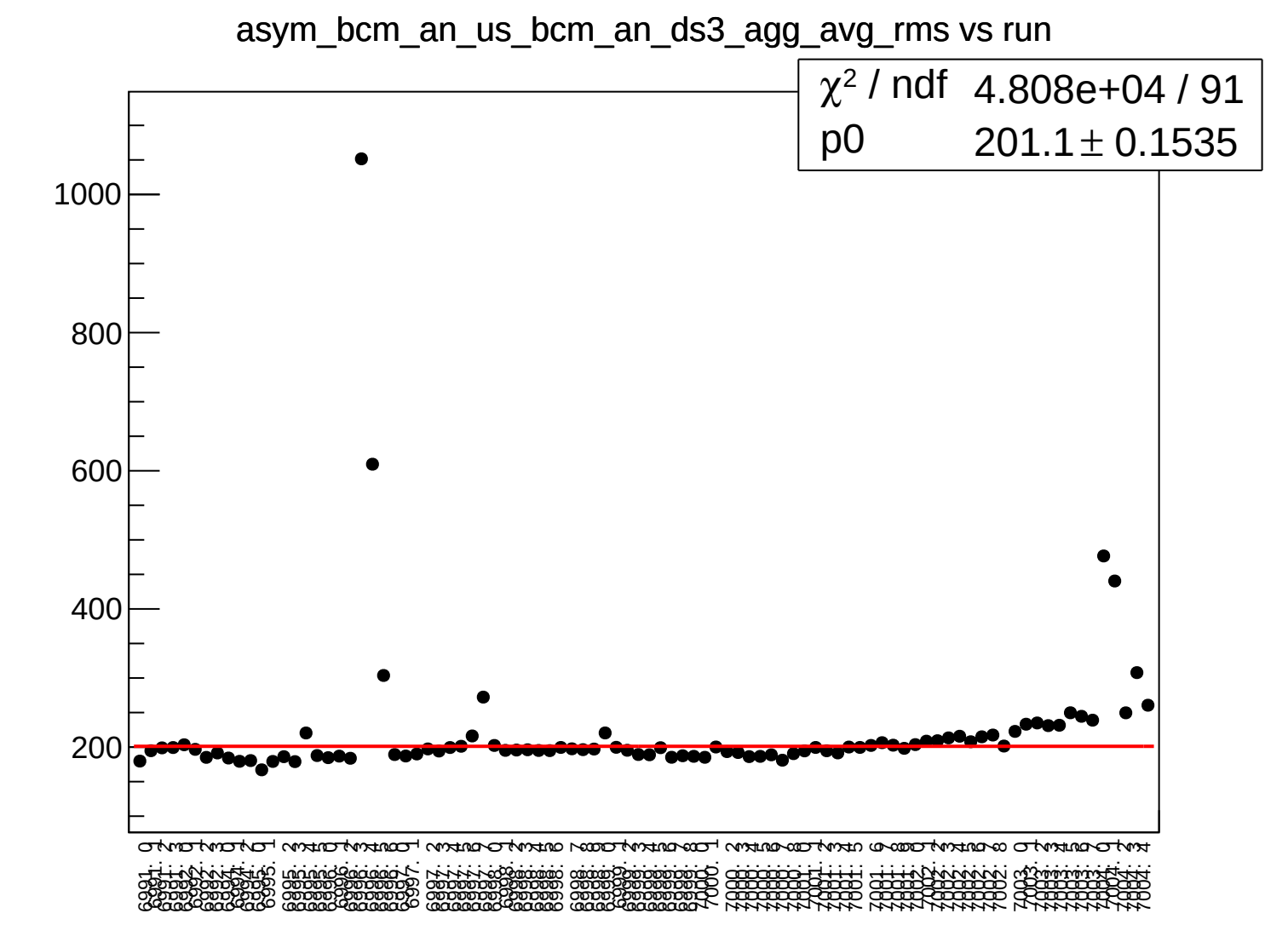

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 443 / 91
p0 21.54 ± 0.01621
22.5
22
21.5
21
20.5

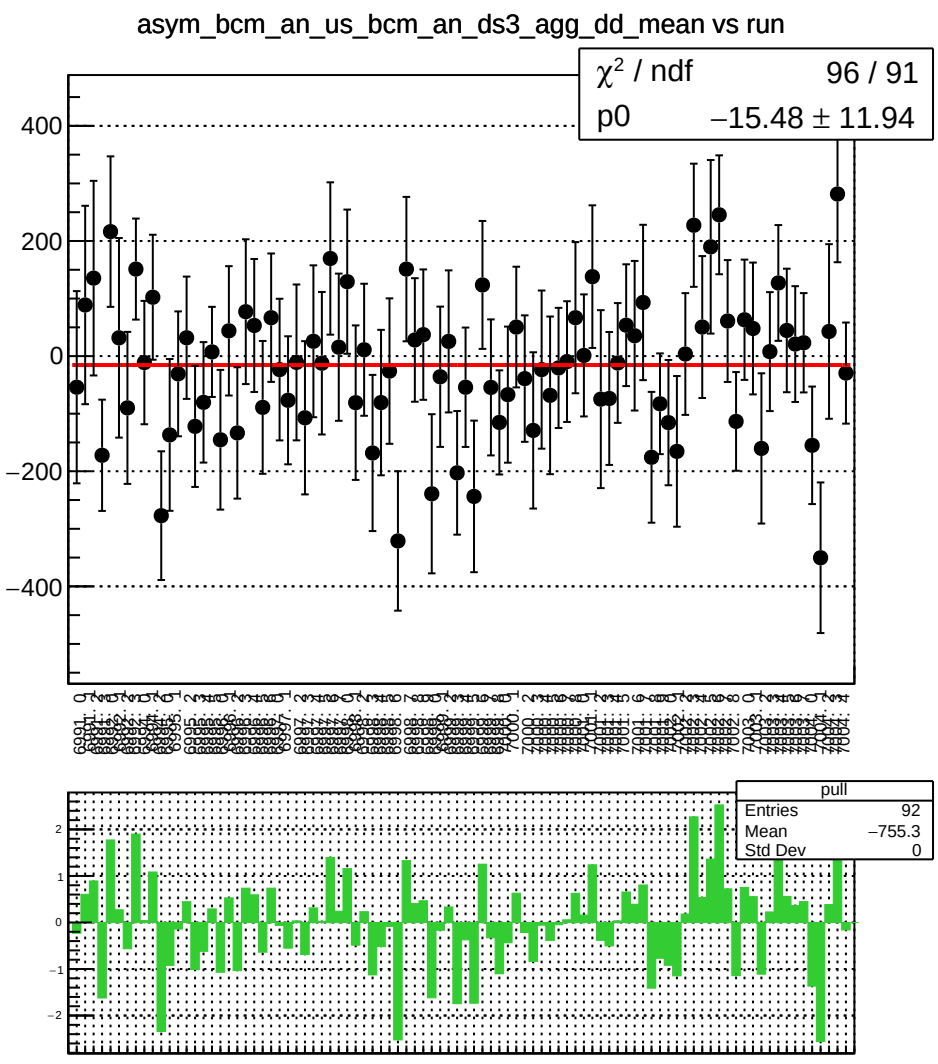

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 92.79 / 91
p0 −20.26 ± 12.56
400
200
0
−200
−400
pull
Entries 92
Mean −1873
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001222
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

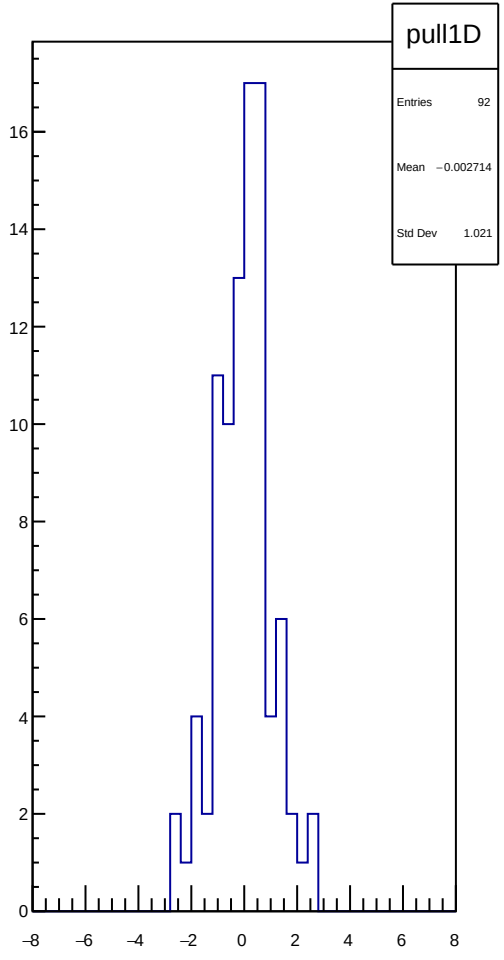

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.423e+04 / 91
p0 11.72 ± 0.008881
17
16
15
14
13
12
11
10

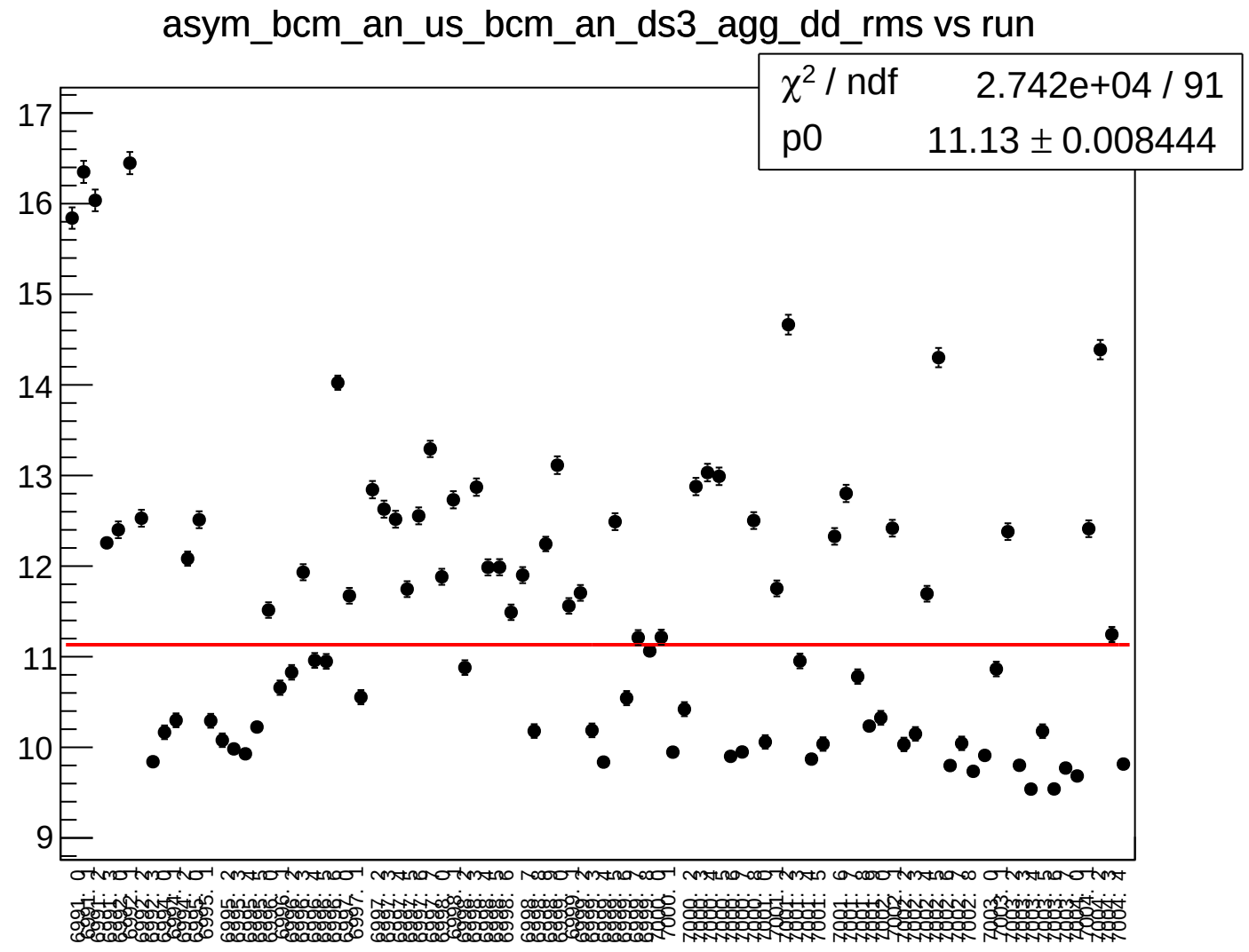

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 10.13 / 91
p0 −263.7 ± 217.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 76.19
Std Dev 119.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

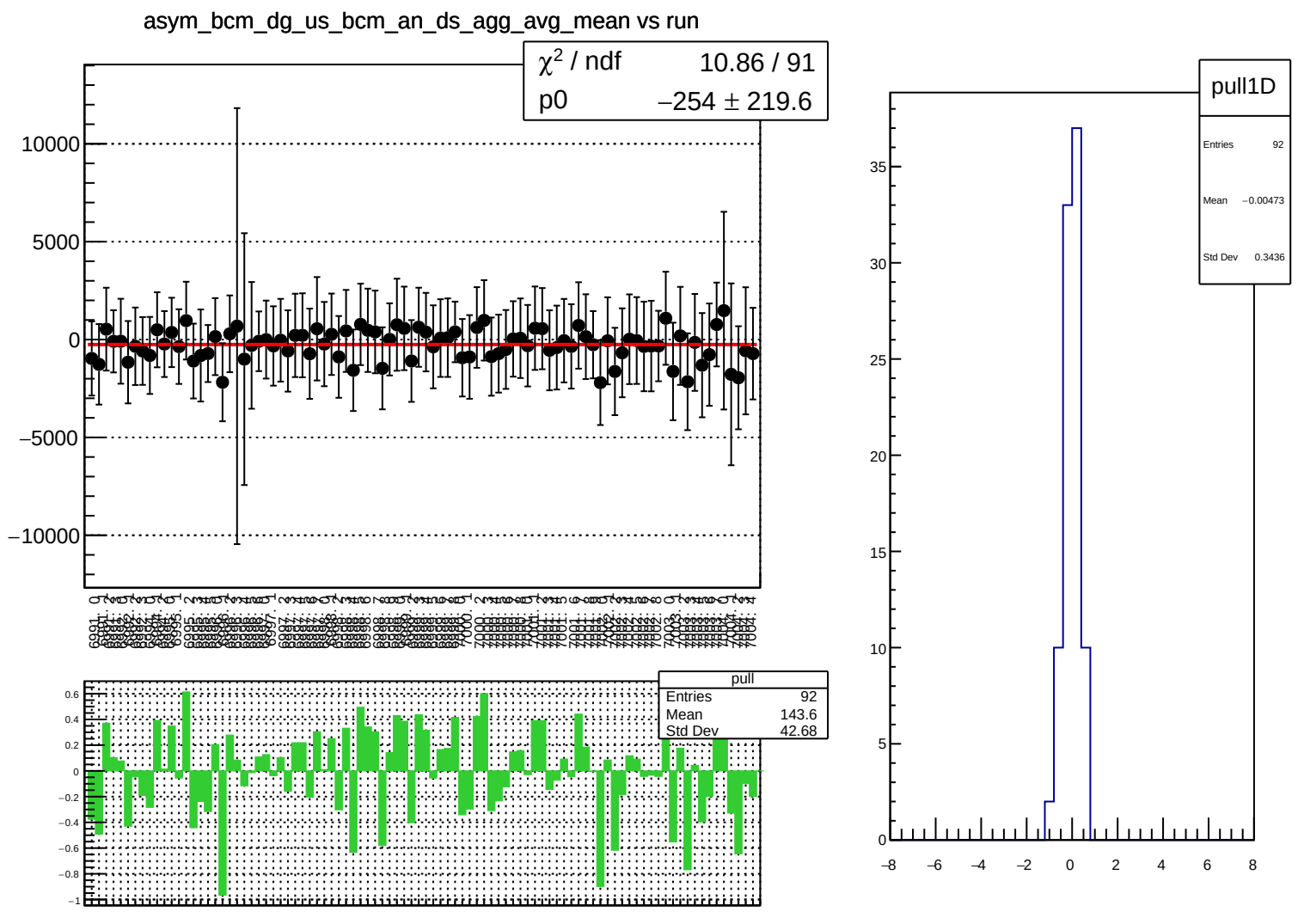

pull1D
Entries 92
Mean −0.003475
Std Dev 0.3318
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

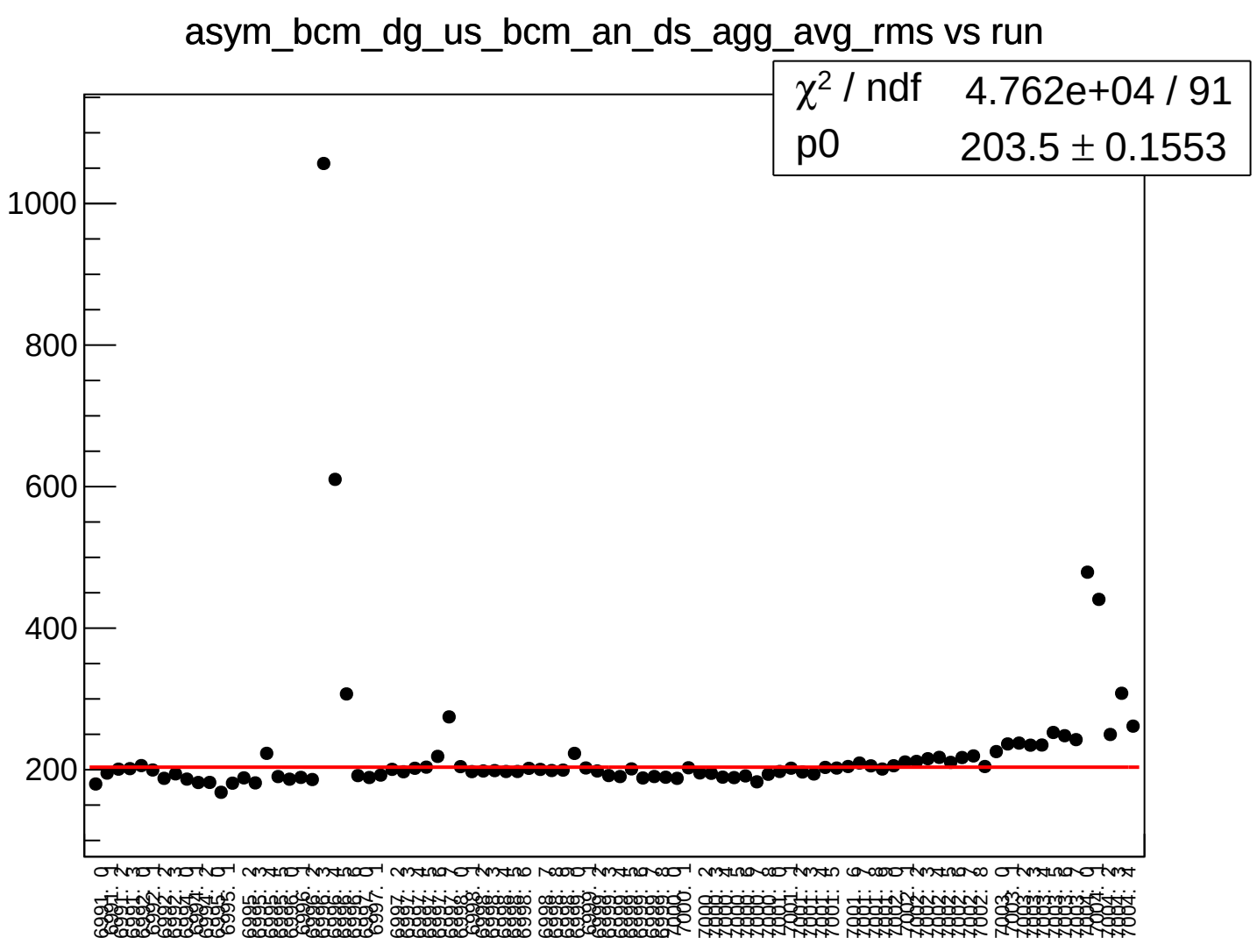

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4.808e+04 / 91
p0 201.1 ± 0.1535
1000
800
600
400
200

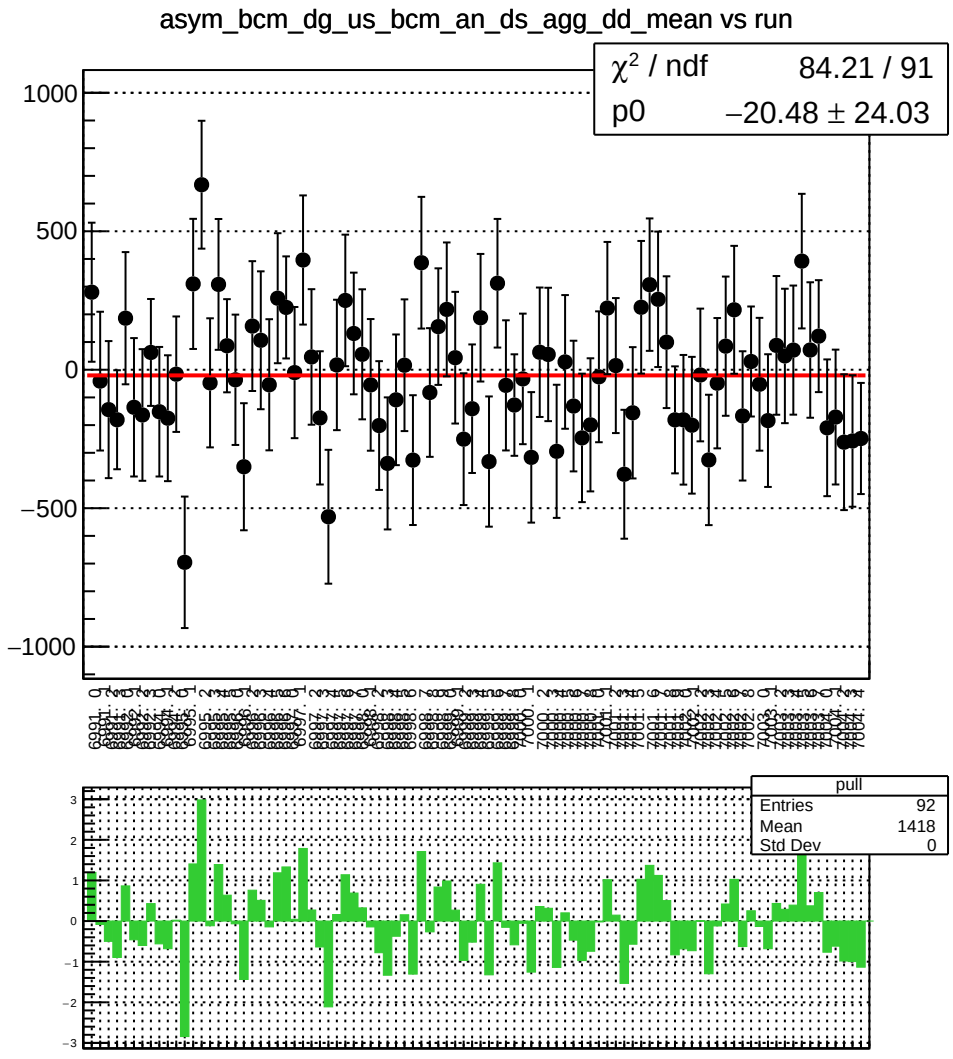

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 96 / 91
p0 −15.48 ± 11.94
400
200
0
−200
−400
pull
Entries 92
Mean −755.3
Std Dev 0
2
1
0
−1
−2

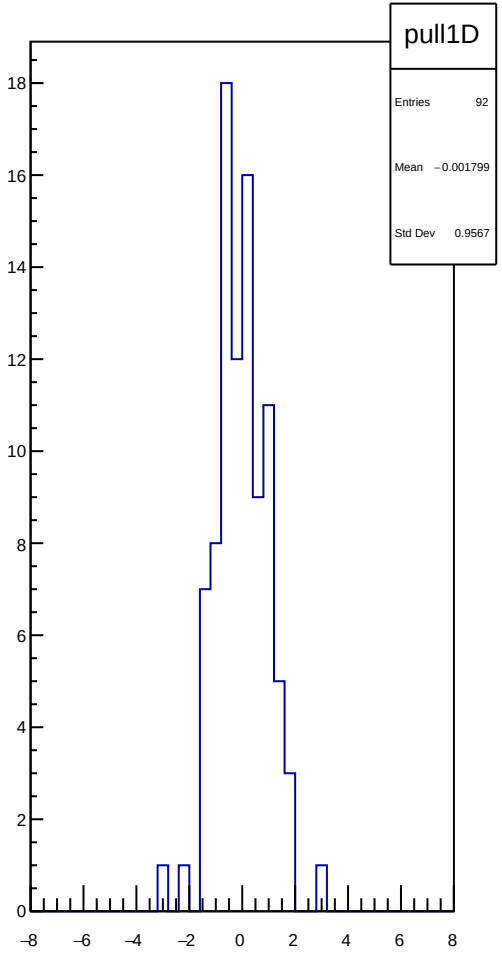

pull1D
Entries 92
Mean −0.002714
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

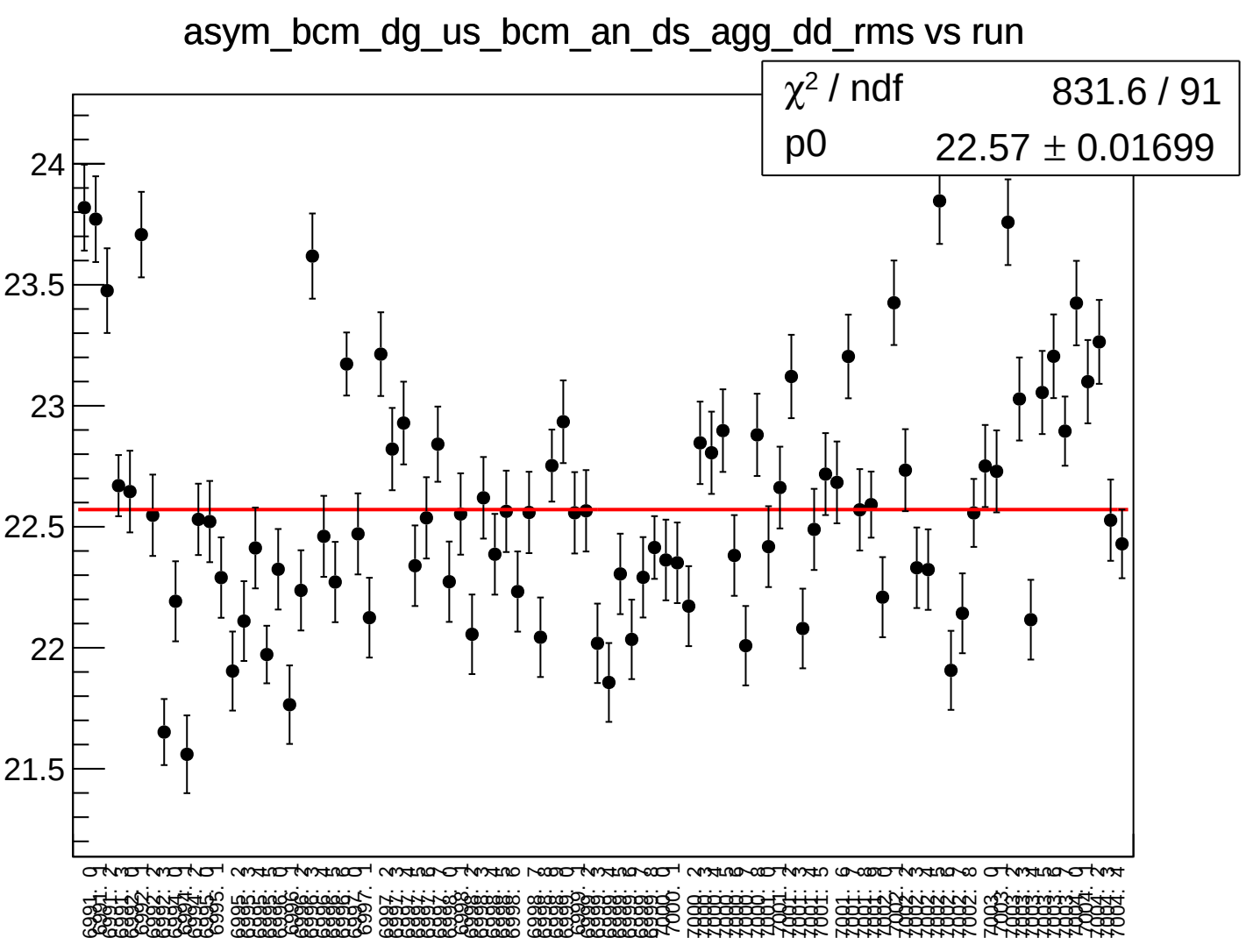

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.742e+04 / 91
p0 11.13 ± 0.008444
17
16
15
14
13
12
11
10
9

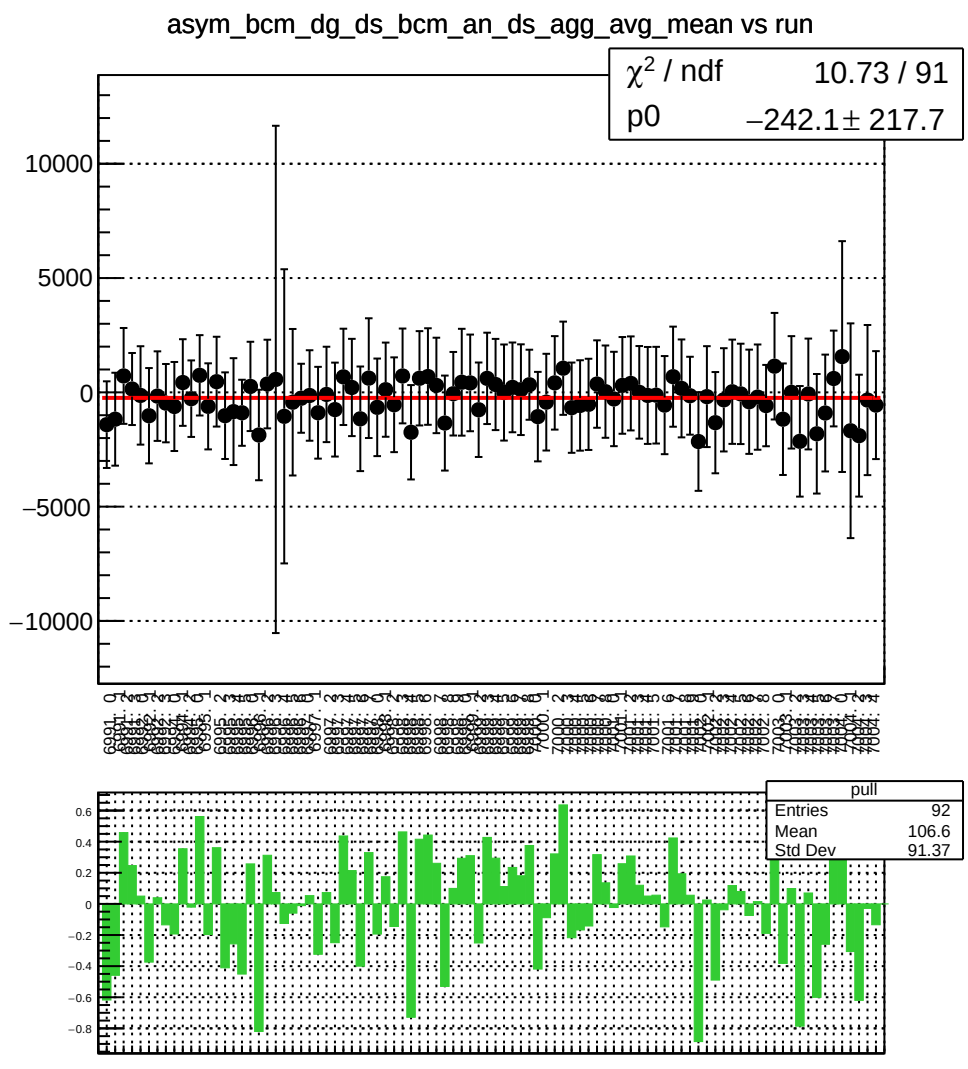

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.86 / 91
p0 −254 ± 219.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 143.6
Std Dev 42.68
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean −0.00473
Std Dev 0.3436
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

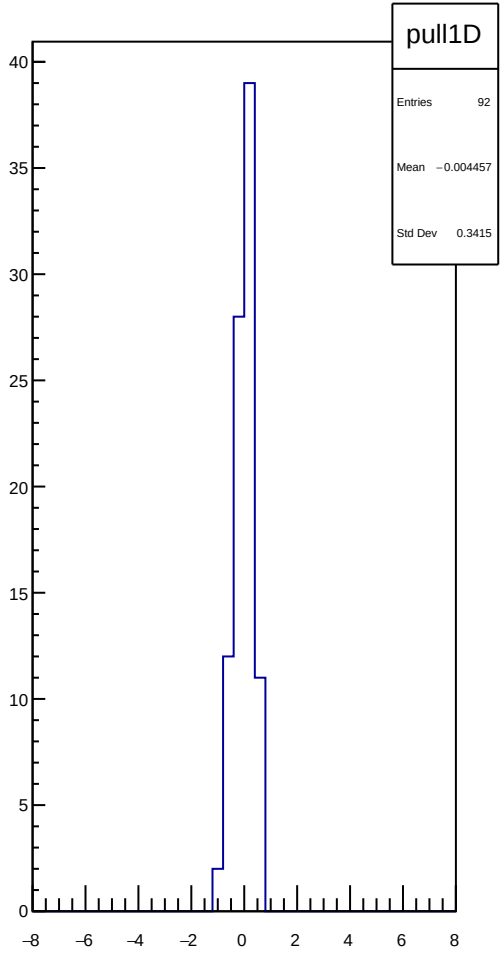

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.762e+04 / 91
p0 203.5 ± 0.1553
1000
800
600
400
200

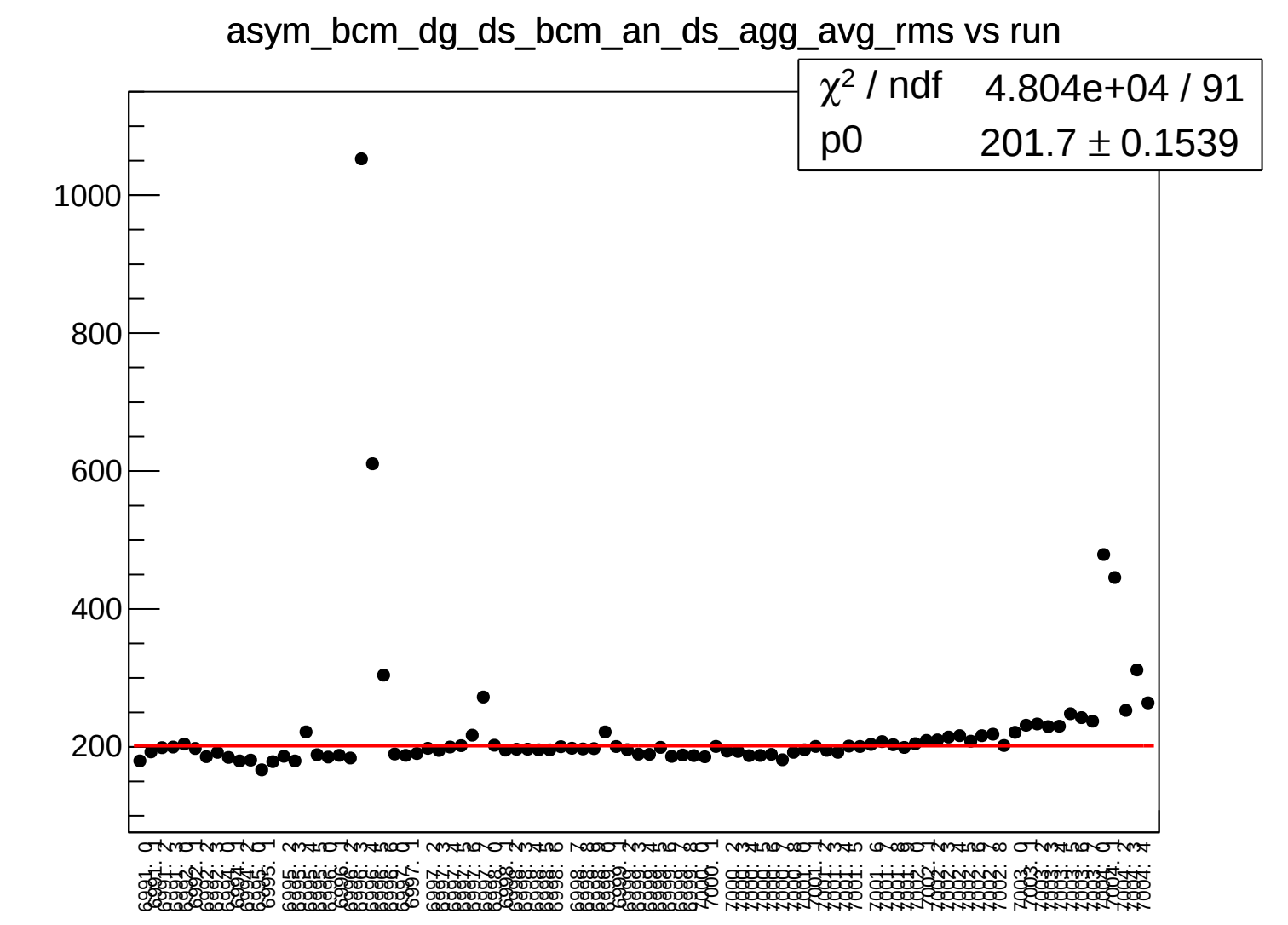

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 84.21 / 91
p0 −20.48 ± 24.03
1000
500
0
−500
−1000
pull
Entries 92
Mean 1418
Std Dev 0
3
2
1
0
−1
−2
−3

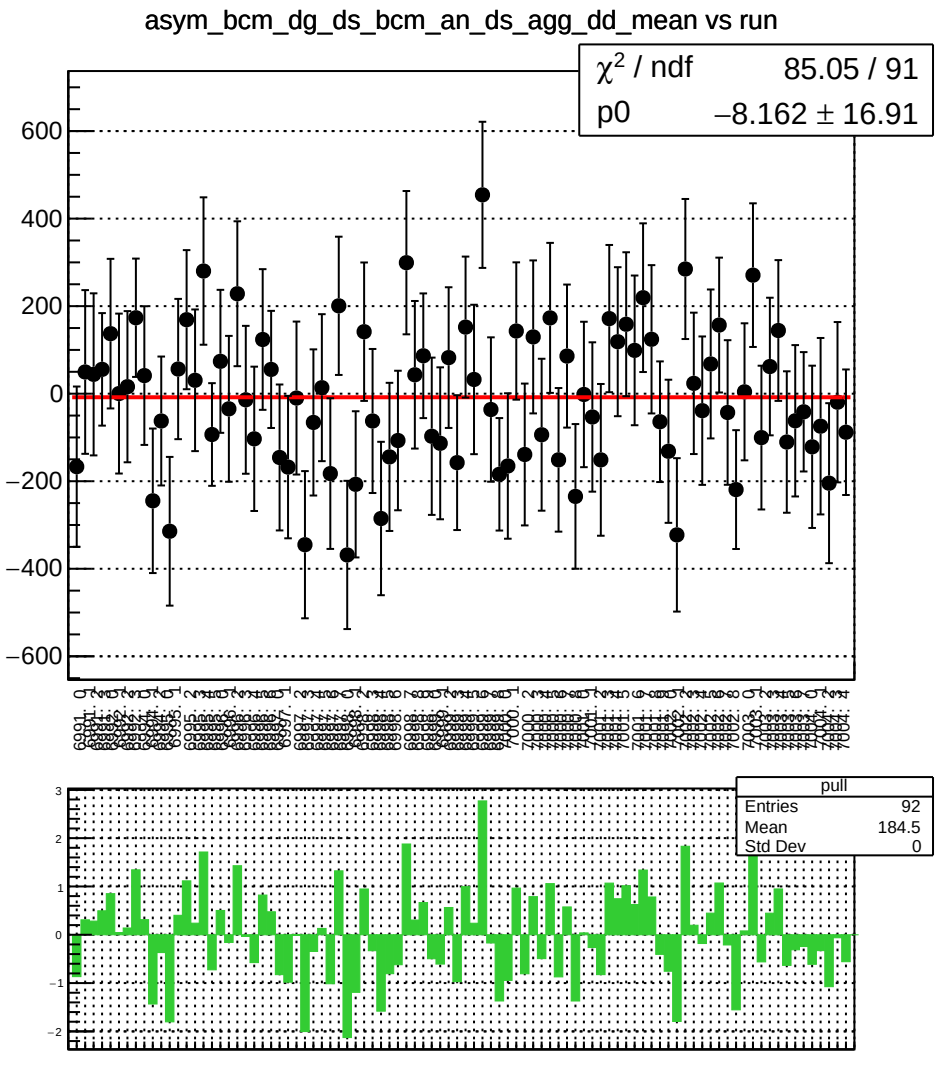

pull1D
Entries 92
Mean −0.001799
Std Dev 0.9567
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

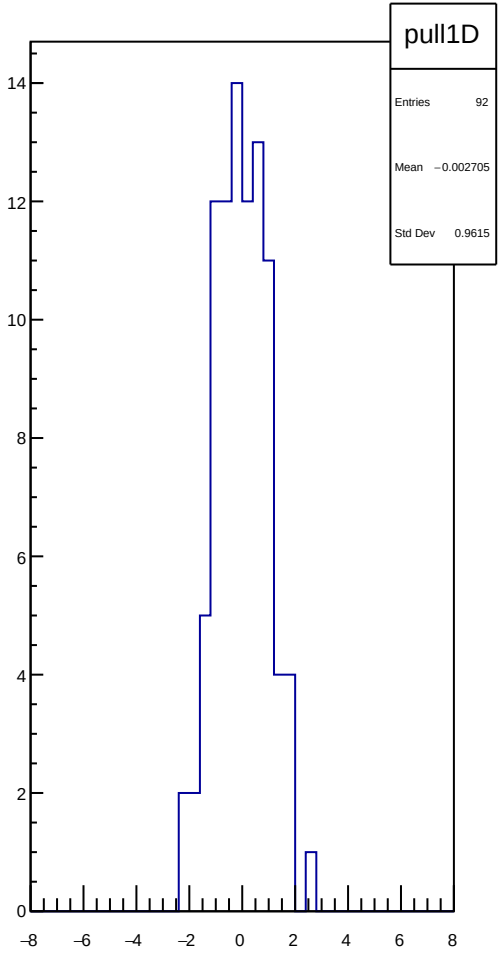

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 831.6 / 91
p0 22.57 ± 0.01699
24
23.5
23
22.5
22
21.5

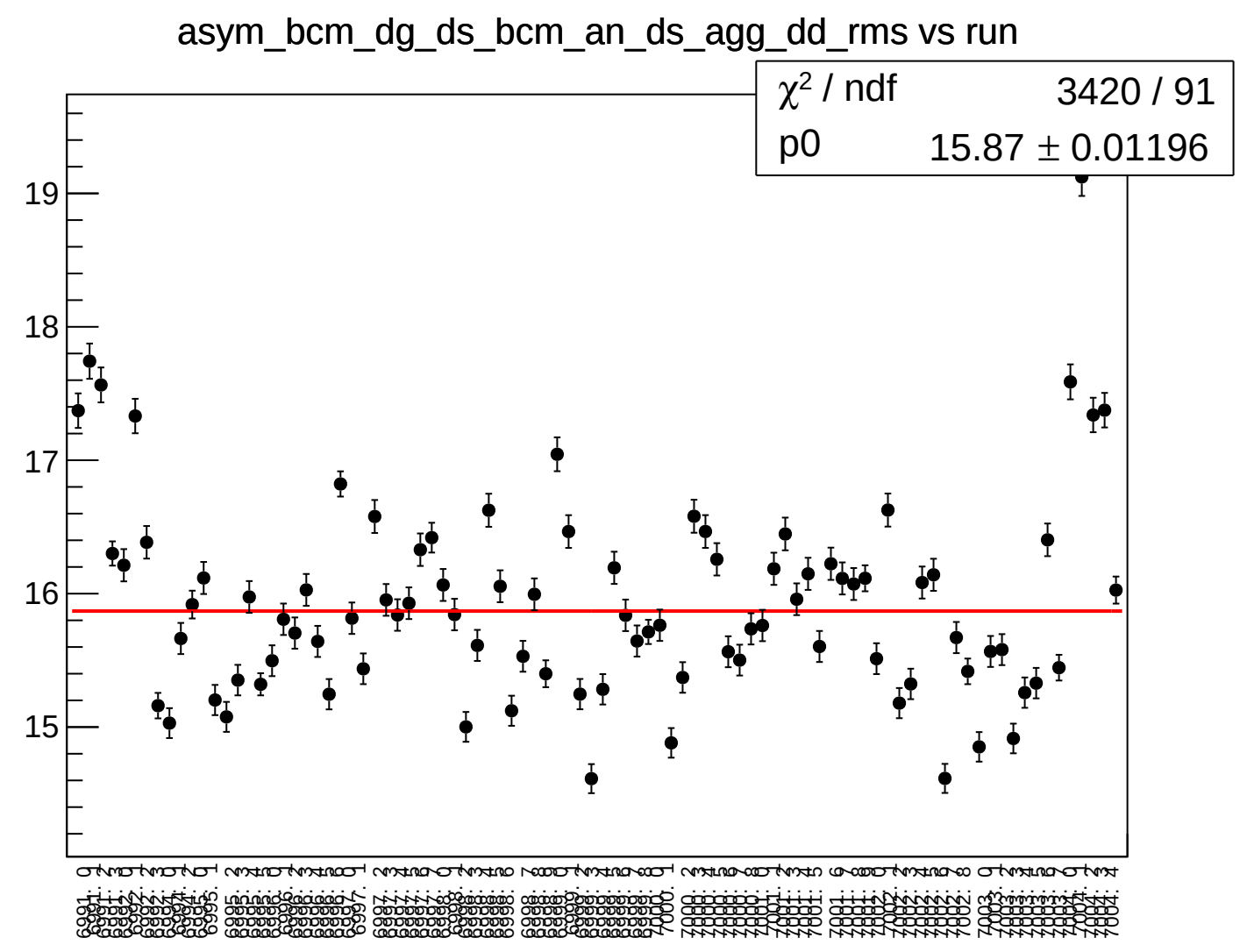

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.73 / 91
p0 −242.1± 217.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 106.6
Std Dev 91.37
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

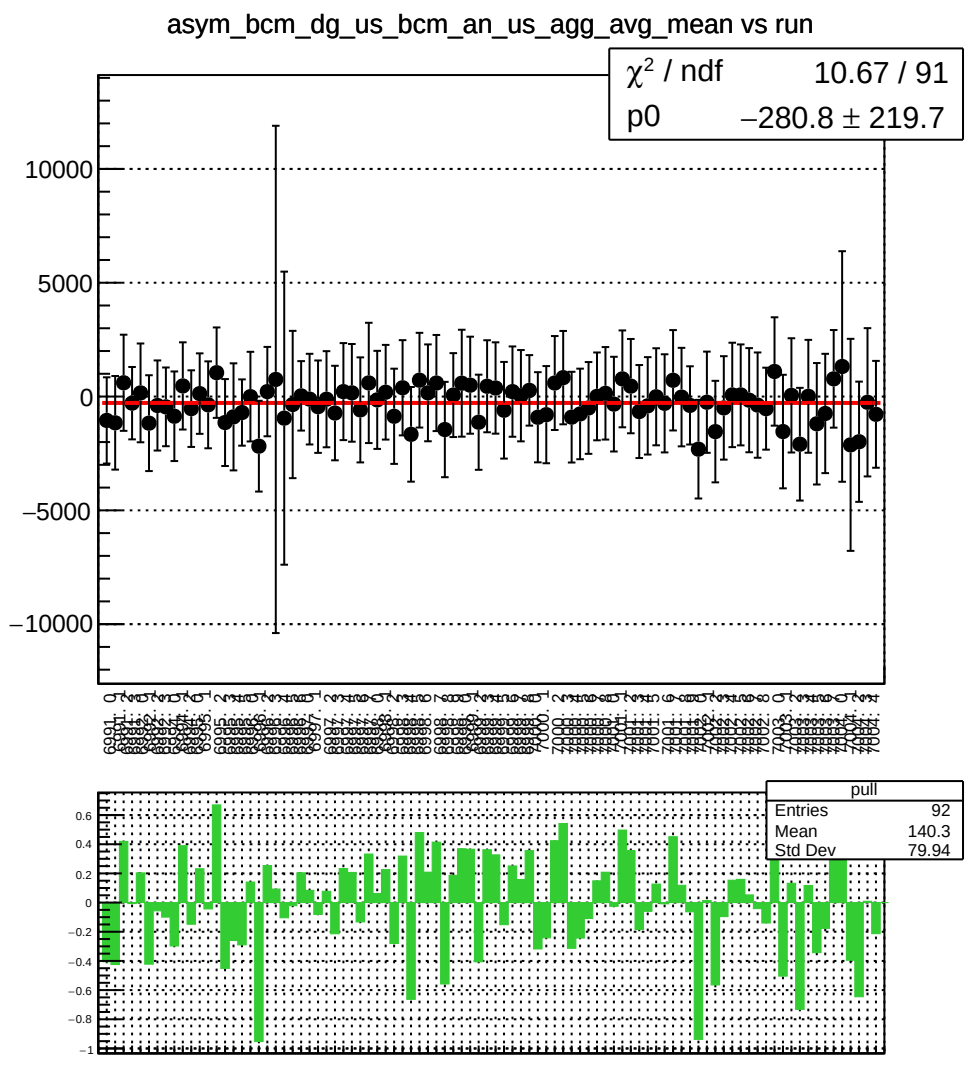

pull1D
Entries 92
Mean −0.004457
Std Dev 0.3415
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

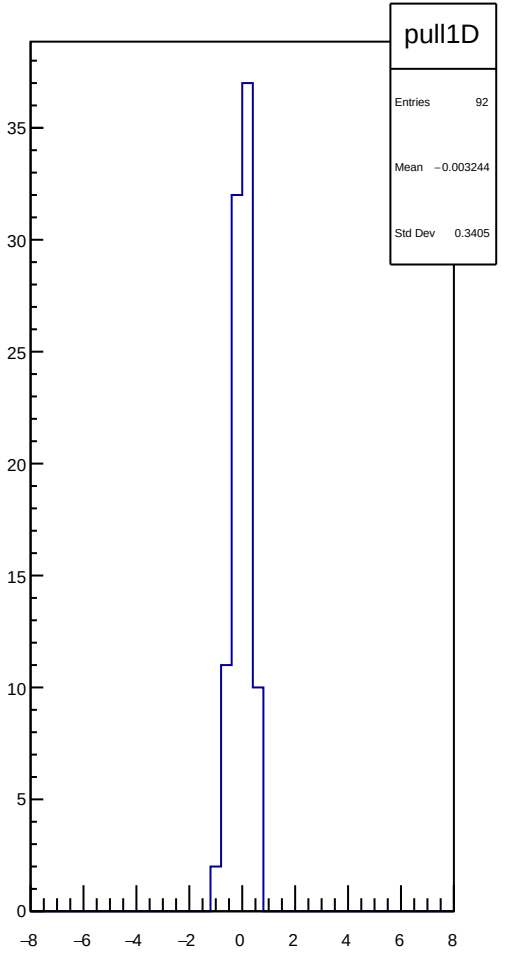

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.804e+04 / 91
p0 201.7 ± 0.1539
1000
800
600
400
200

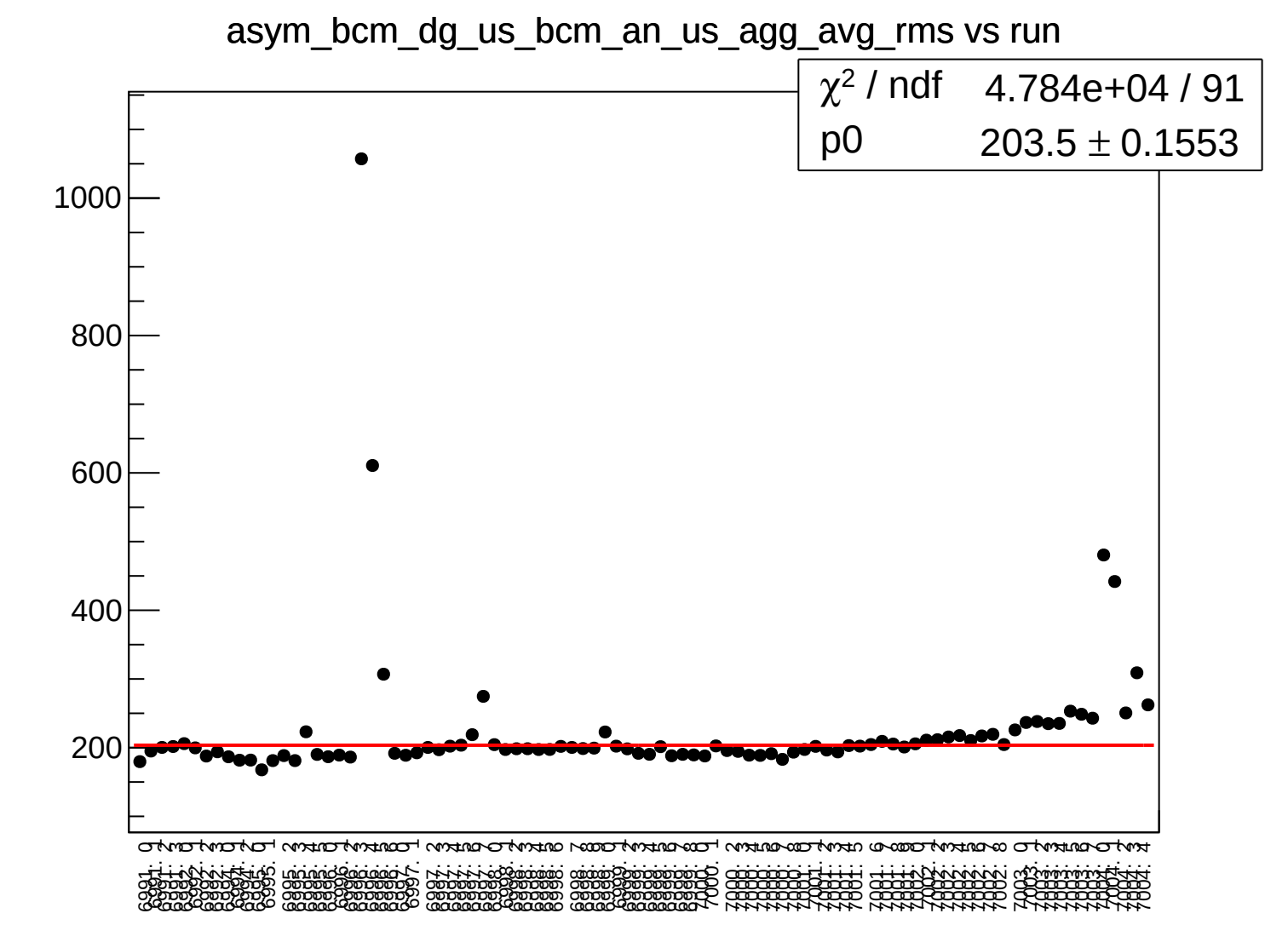

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.05 / 91
p0 −8.162 ± 16.91
pull
Entries 92
Mean 184.5
Std Dev 0

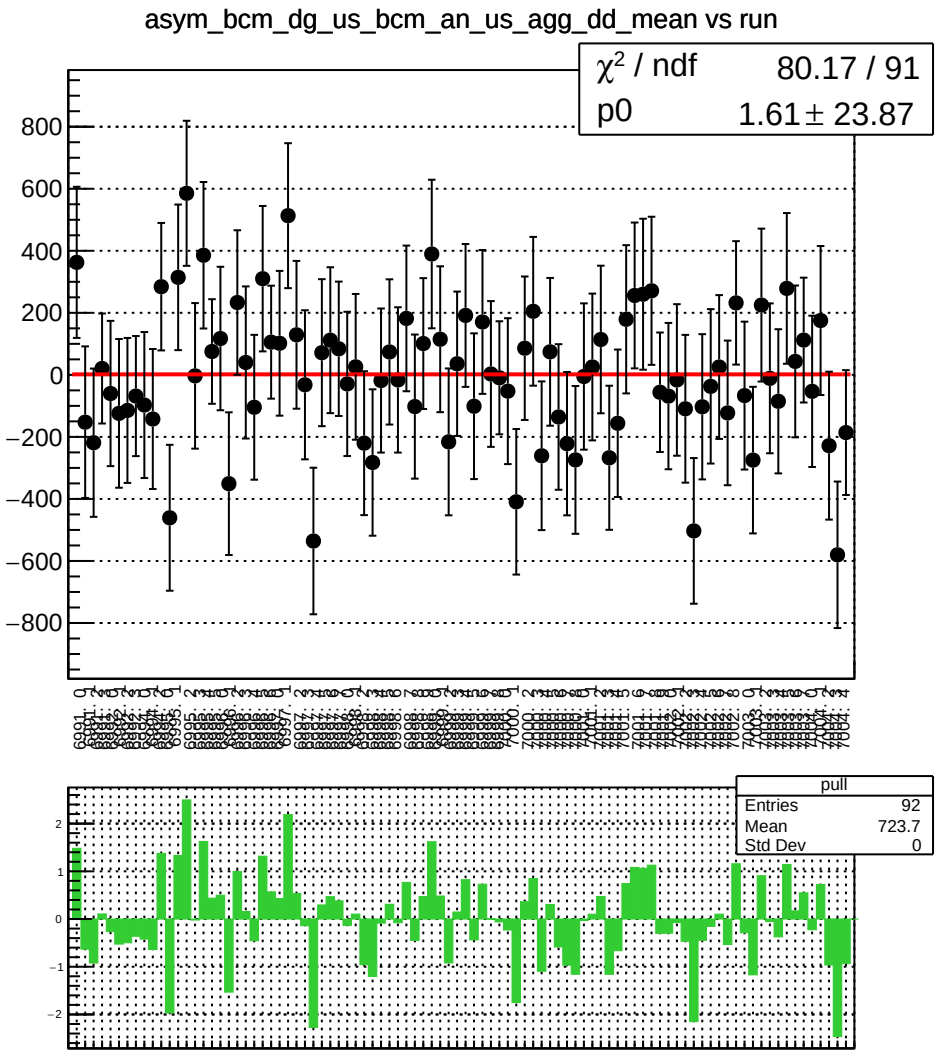

pull1D
Entries 92
Mean −0.002705
Std Dev 0.9615

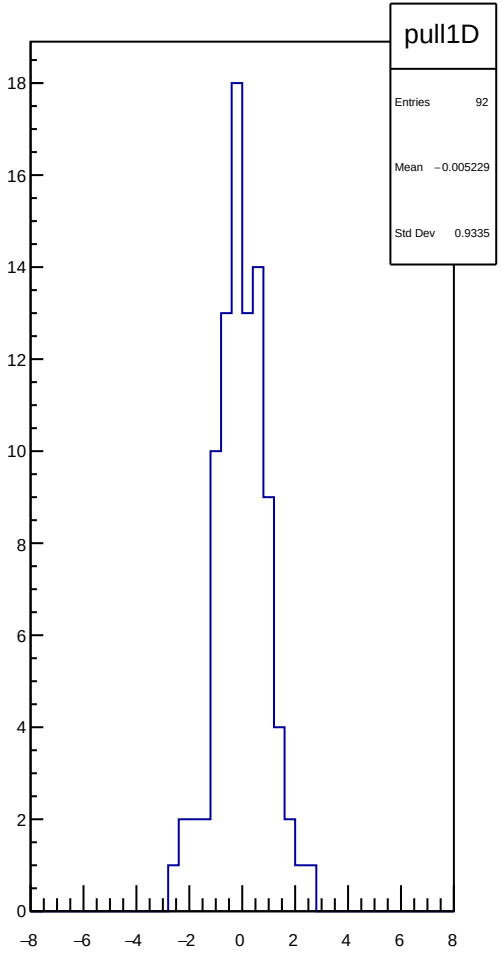

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3420 / 91
p0 15.87 ± 0.01196
19
18
17
16
15

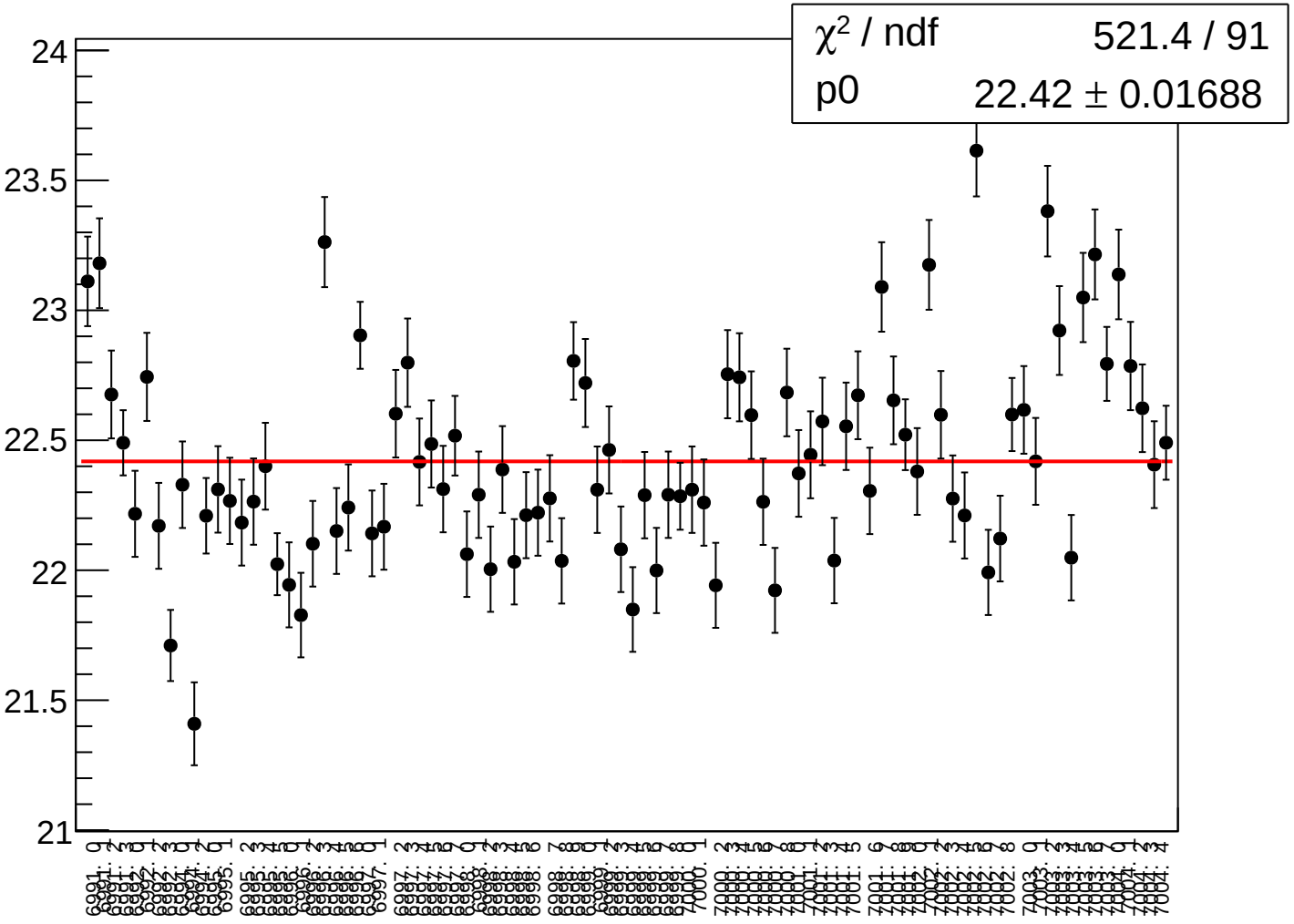

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.67 / 91
p0 −280.8 ± 219.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 140.3
Std Dev 79.94
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

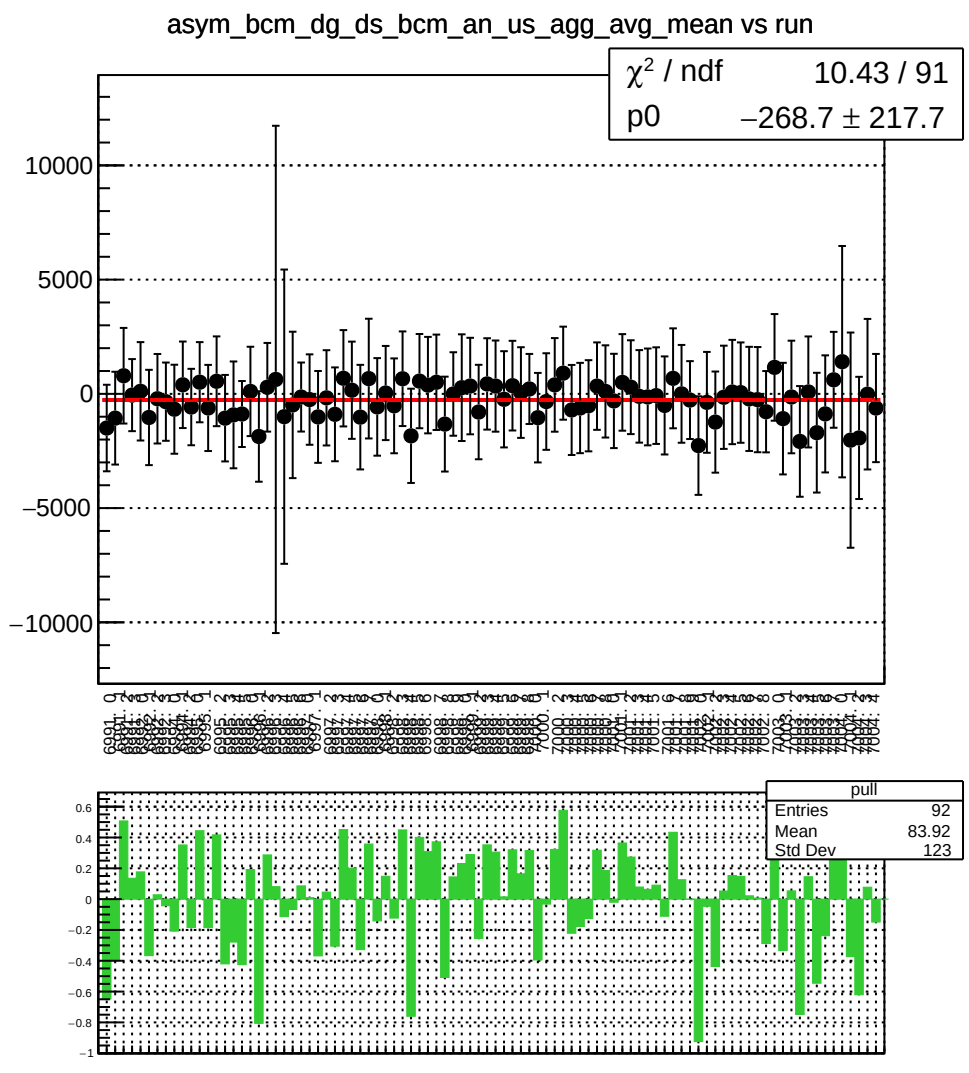

pull1D
Entries 92
Mean −0.003244
Std Dev 0.3405
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

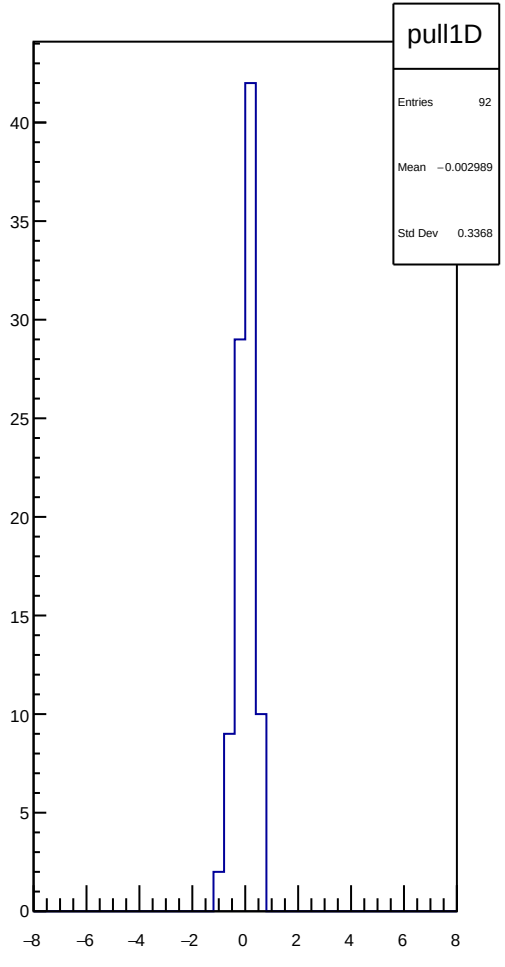

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.784e+04 / 91
p0 203.5 ± 0.1553
1000
800
600
400
200

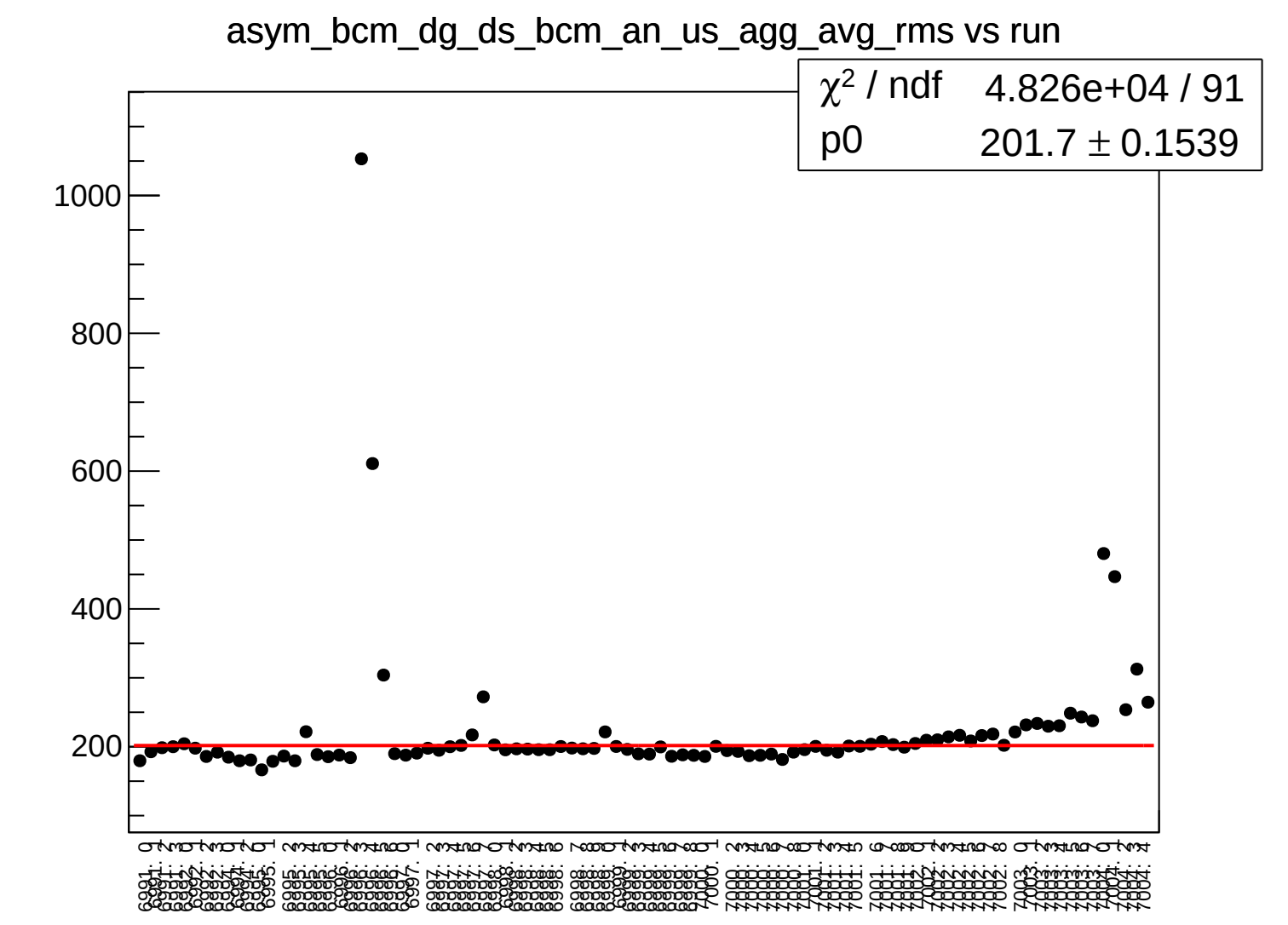

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 80.17 / 91
p0 1.61 ± 23.87
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 92
Mean 723.7
Std Dev 0
2
1
0
−1
−2

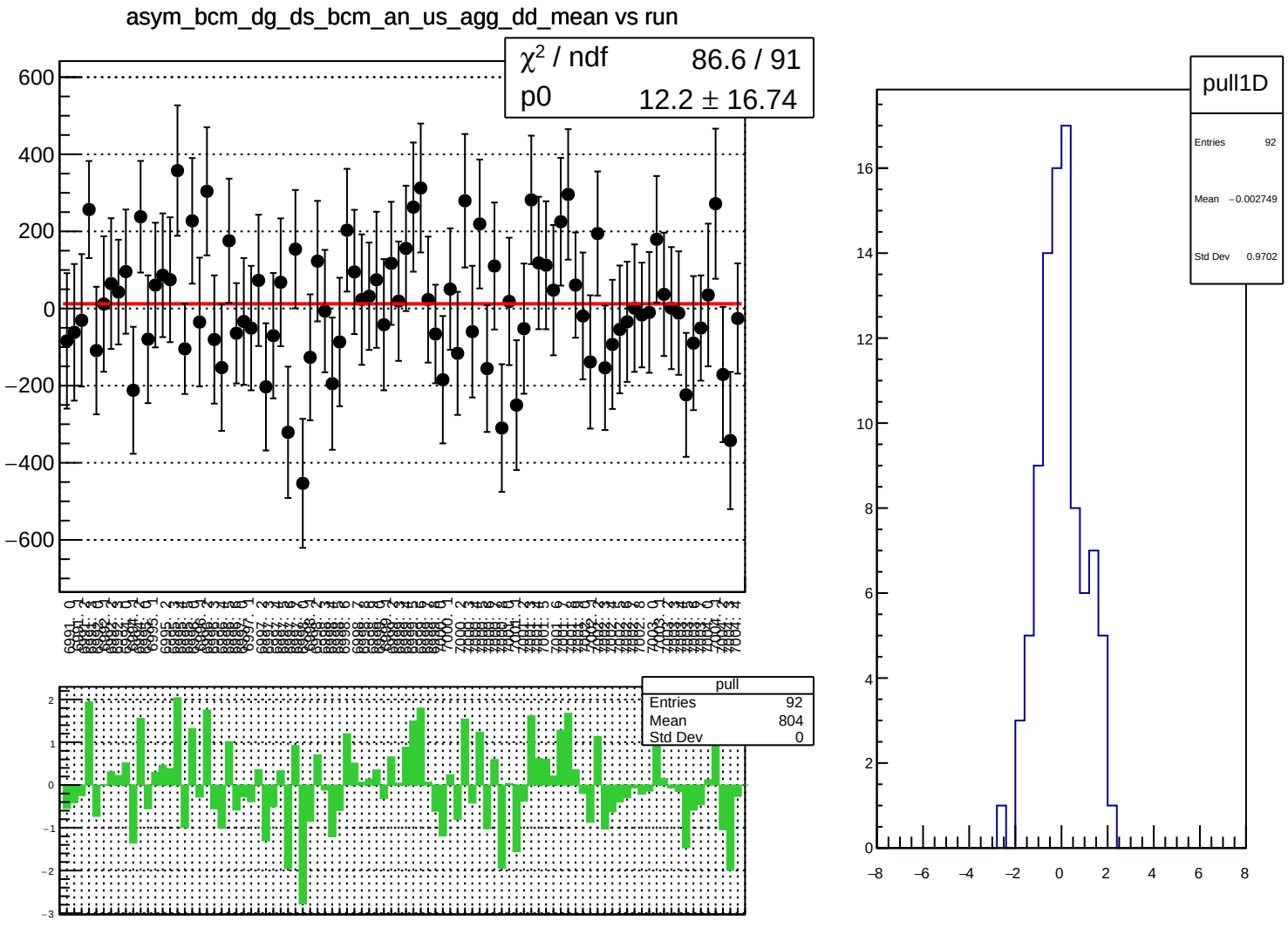

pull1D
Entries 92
Mean −0.005229
Std Dev 0.9335
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

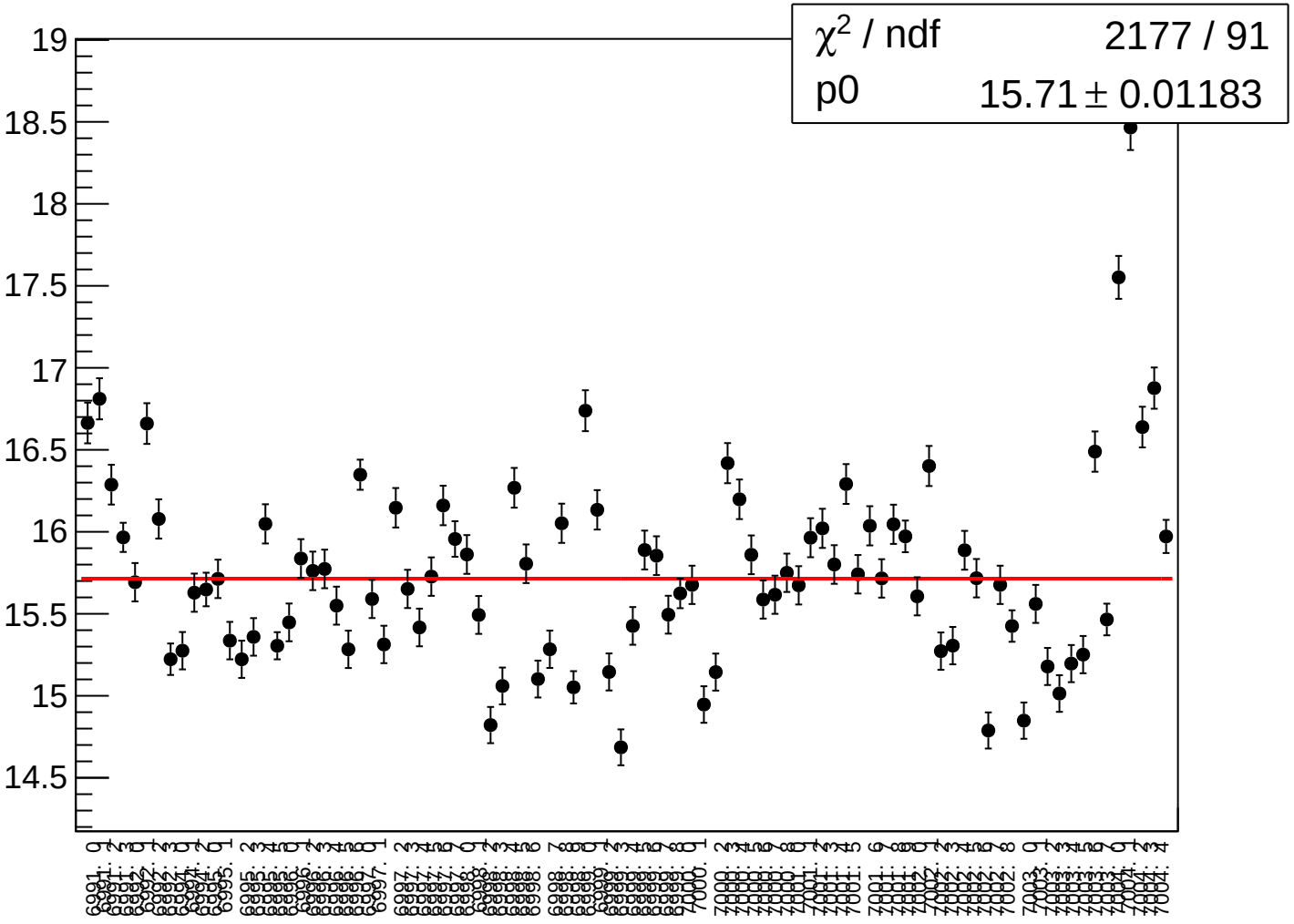

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 521.4 / 91
p0 22.42 ± 0.01688
24
23.5
23
22.5
22
21.5
21

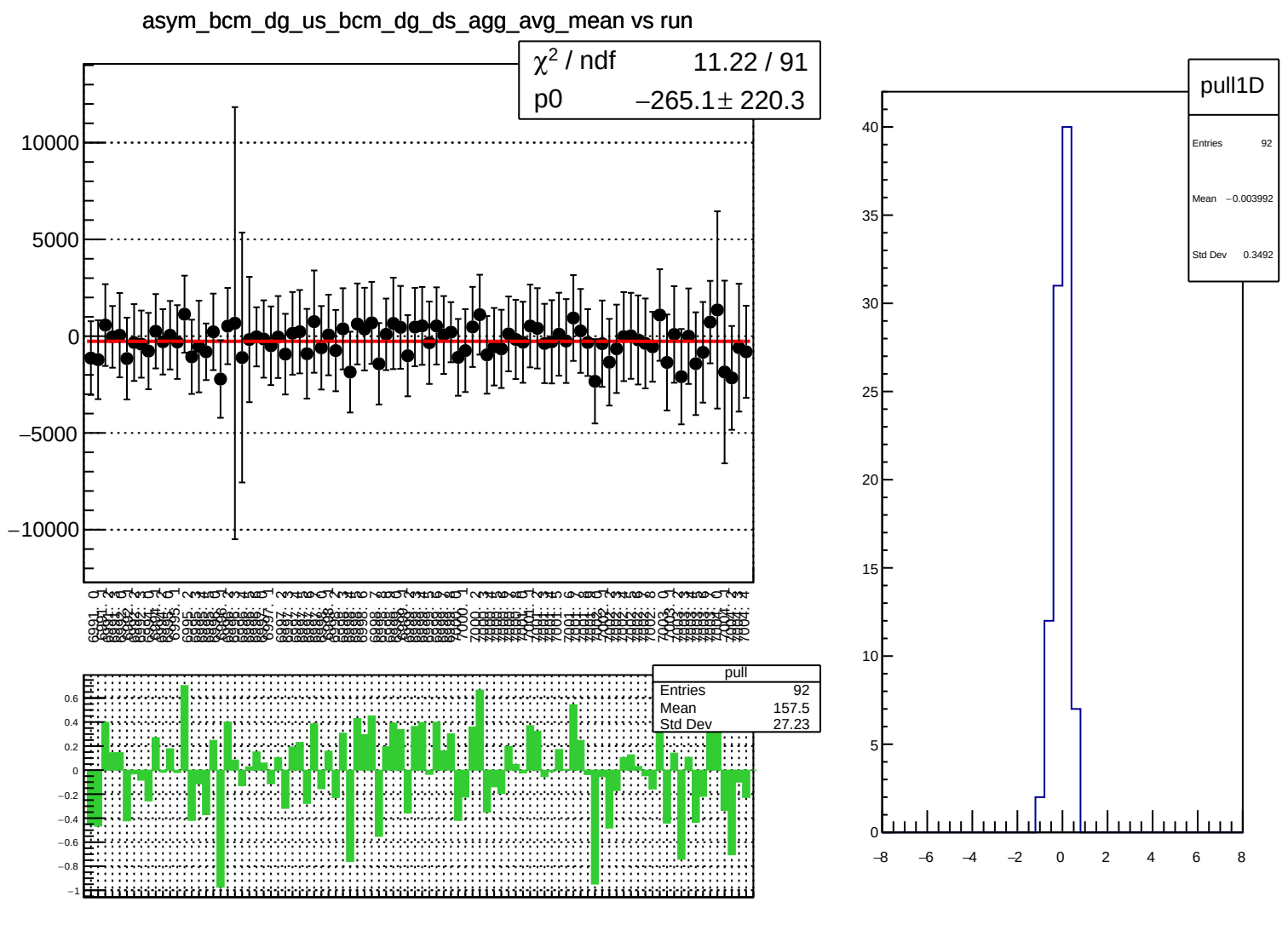

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.43 / 91
p0 −268.7 ± 217.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 83.92
Std Dev 123
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

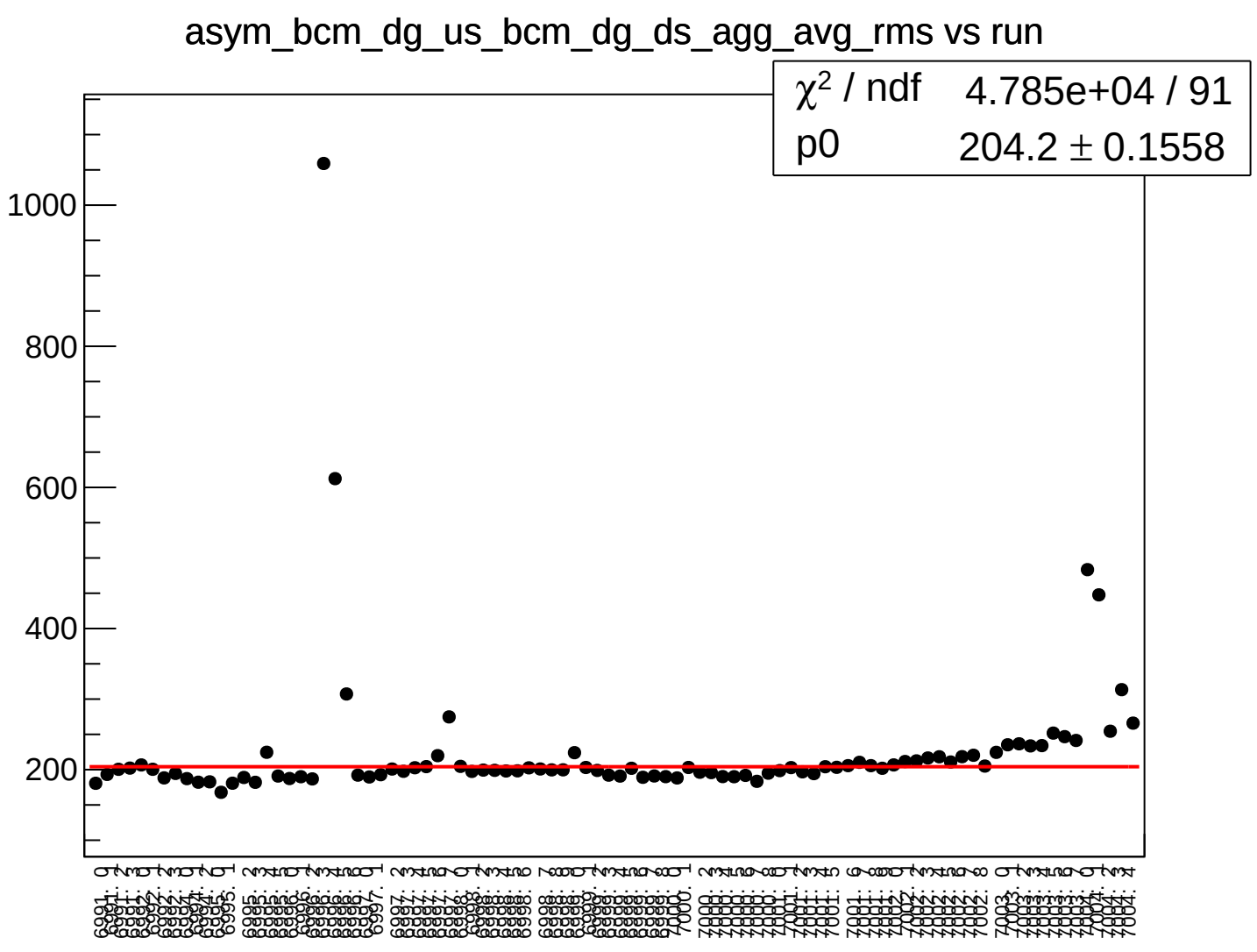

pull1D
Entries 92
Mean −0.002989
Std Dev 0.3368
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

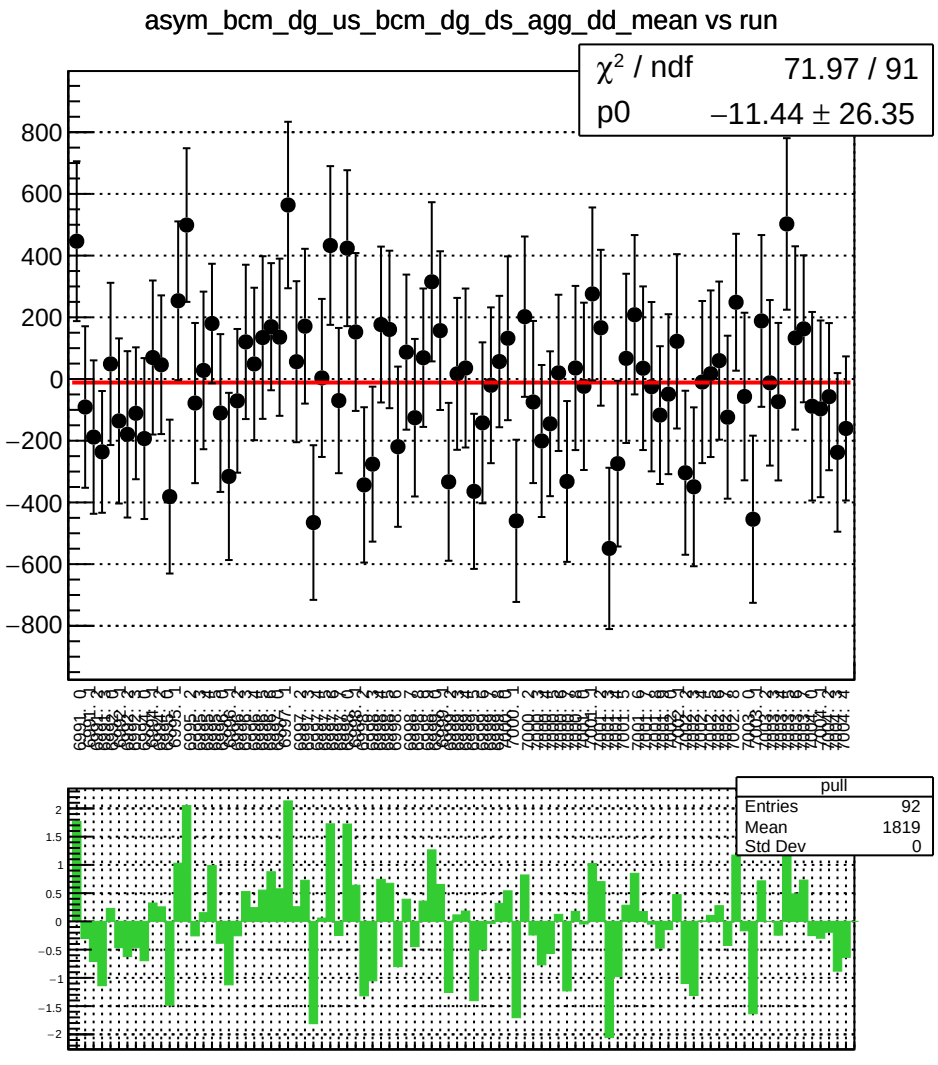

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.826e+04 / 91
p0 201.7 ± 0.1539
1000
800
600
400
200

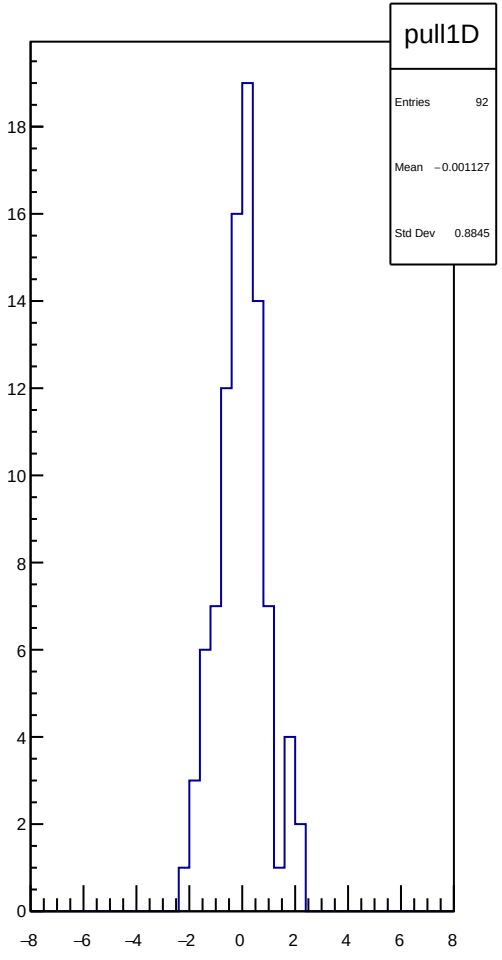

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 86.6 / 91
p0 12.2 ± 16.74
pull
Entries 92
Mean 804
Std Dev 0
pull1D
Entries 92
Mean −0.002749
Std Dev 0.9702

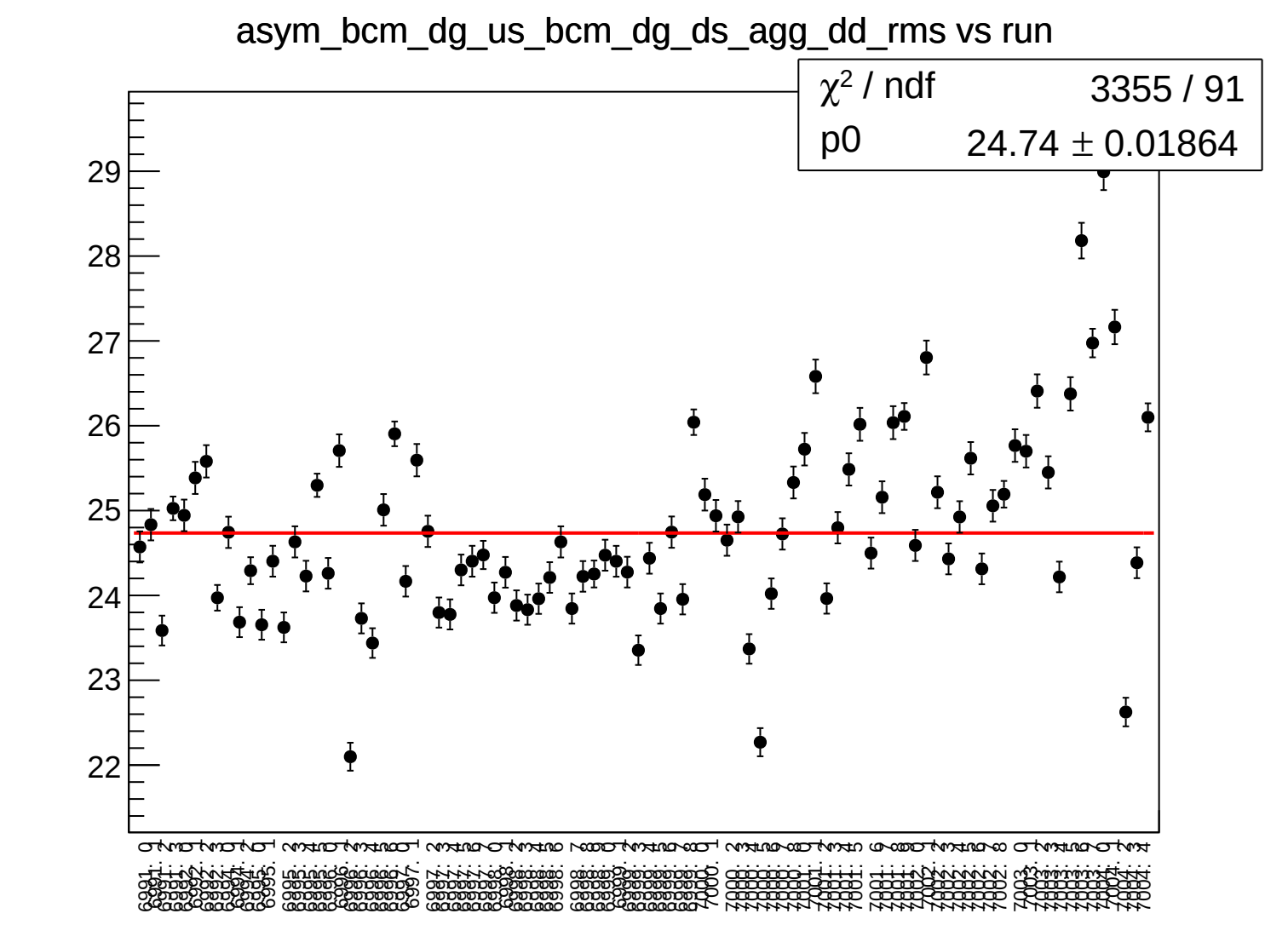

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2177 / 91
p0 15.71 ± 0.01183
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

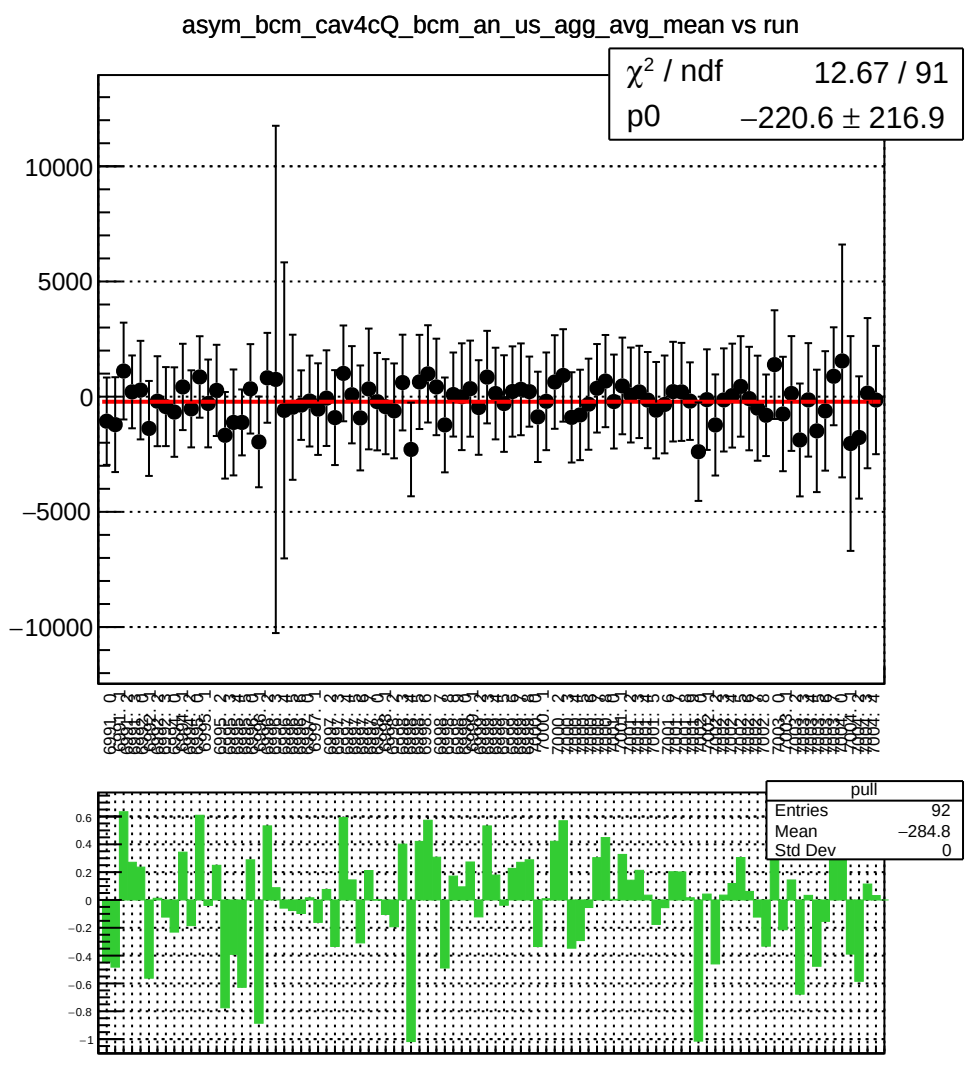

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 11.22 / 91
p0 −265.1± 220.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 157.5
Std Dev 27.23
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean −0.003992
Std Dev 0.3492
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

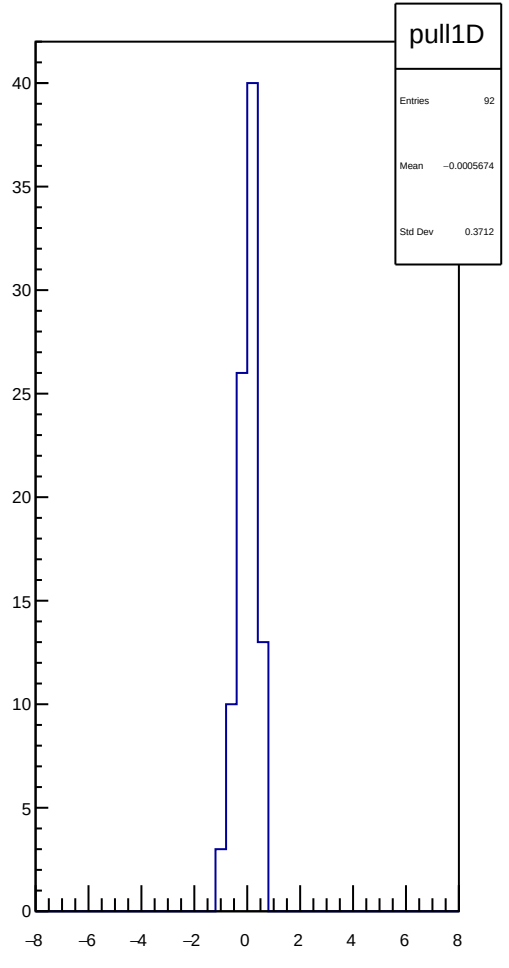

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.785e+04 / 91
p0 204.2 ± 0.1558
1000
800
600
400
200

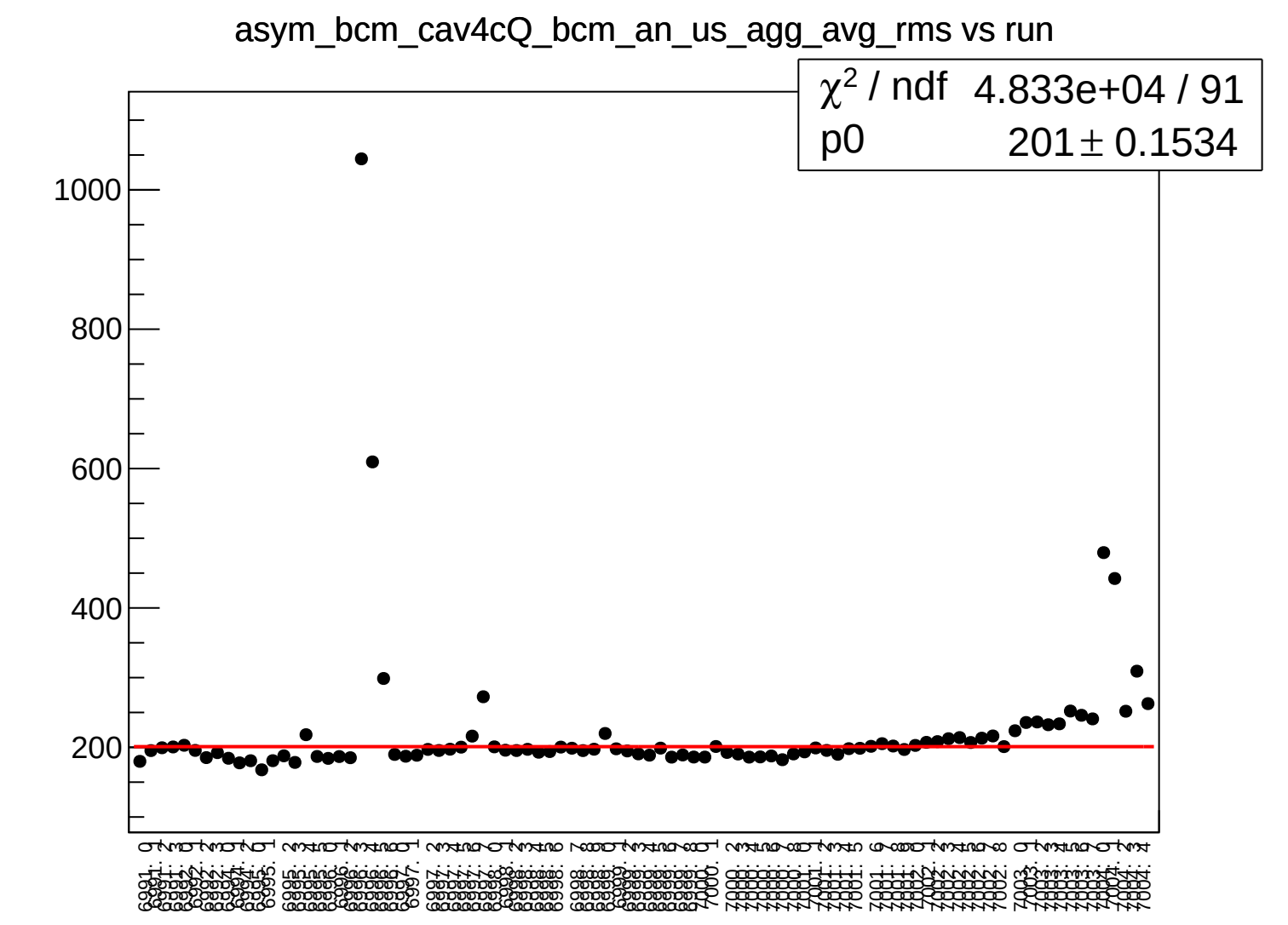

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 71.97 / 91
p0 −11.44 ± 26.35
pull
Entries 92
Mean 1819
Std Dev 0

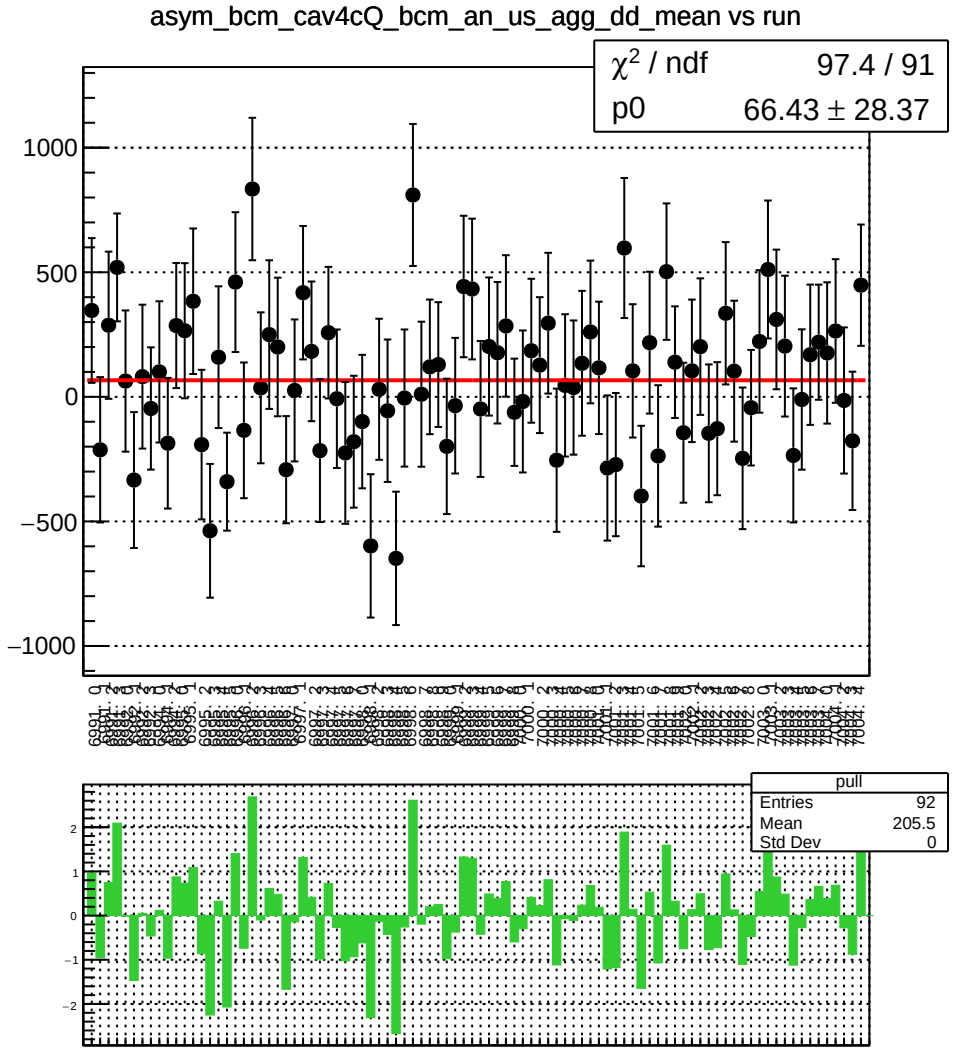

pull1D
Entries 92
Mean −0.001127
Std Dev 0.8845

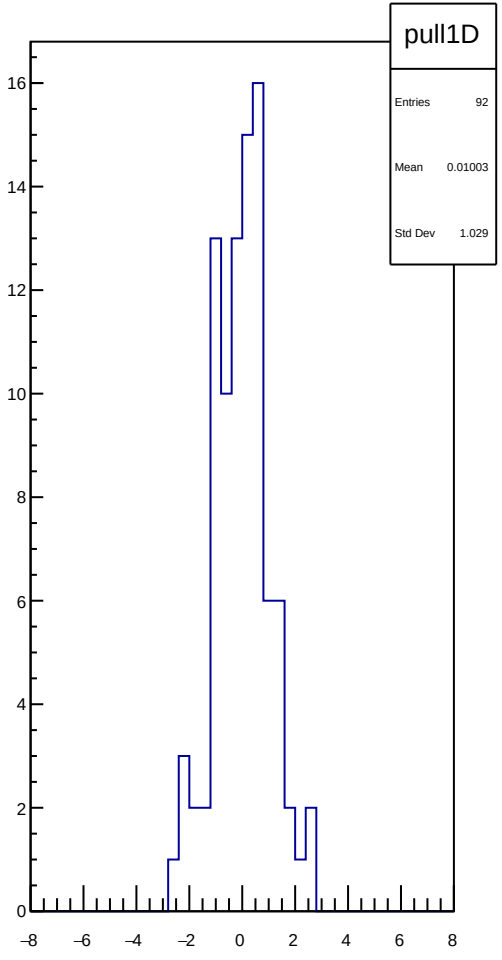

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3355 / 91
p0 24.74 ± 0.01864
29
28
27
26
25
24
23
22

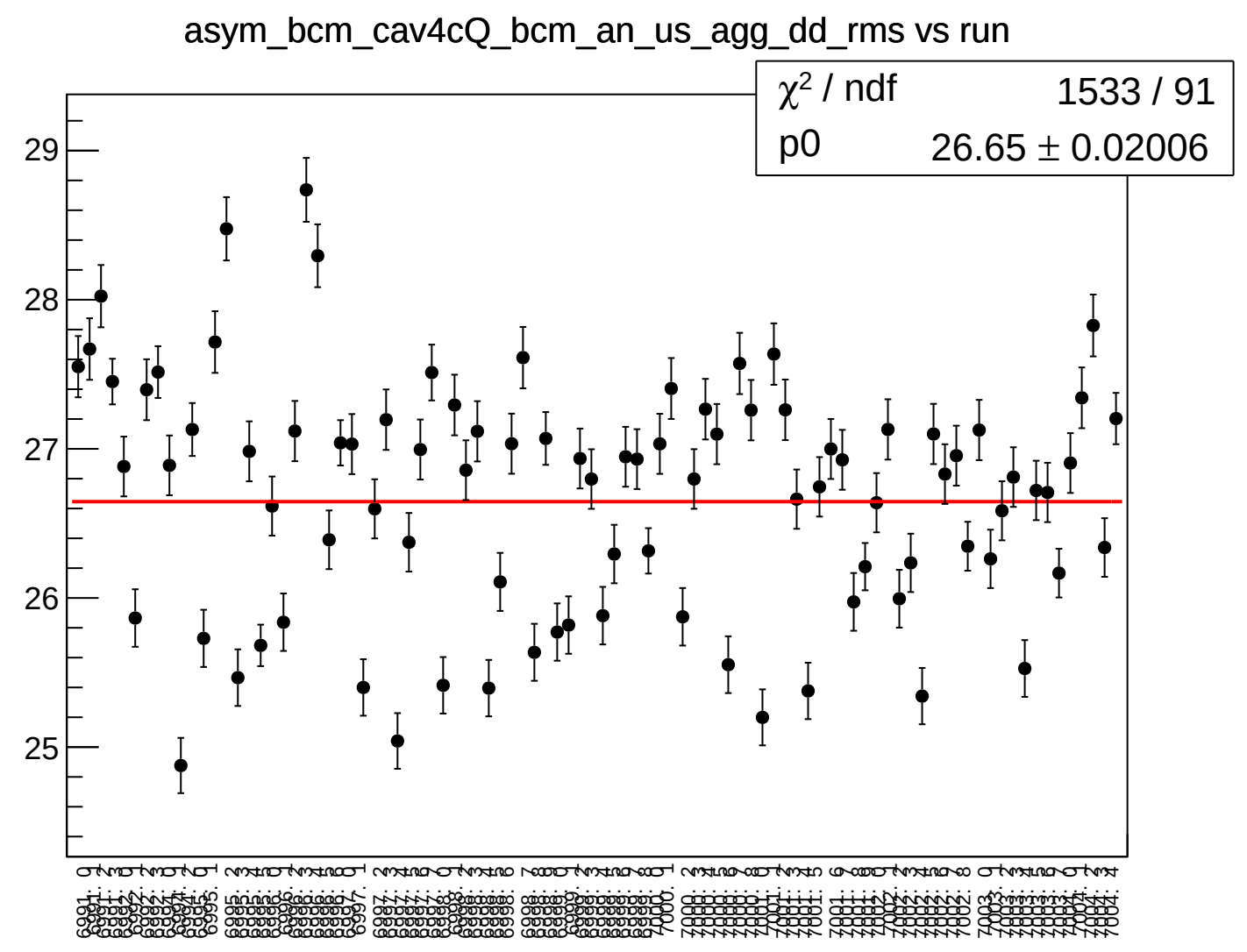

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.67 / 91
p0 −220.6 ± 216.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −284.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

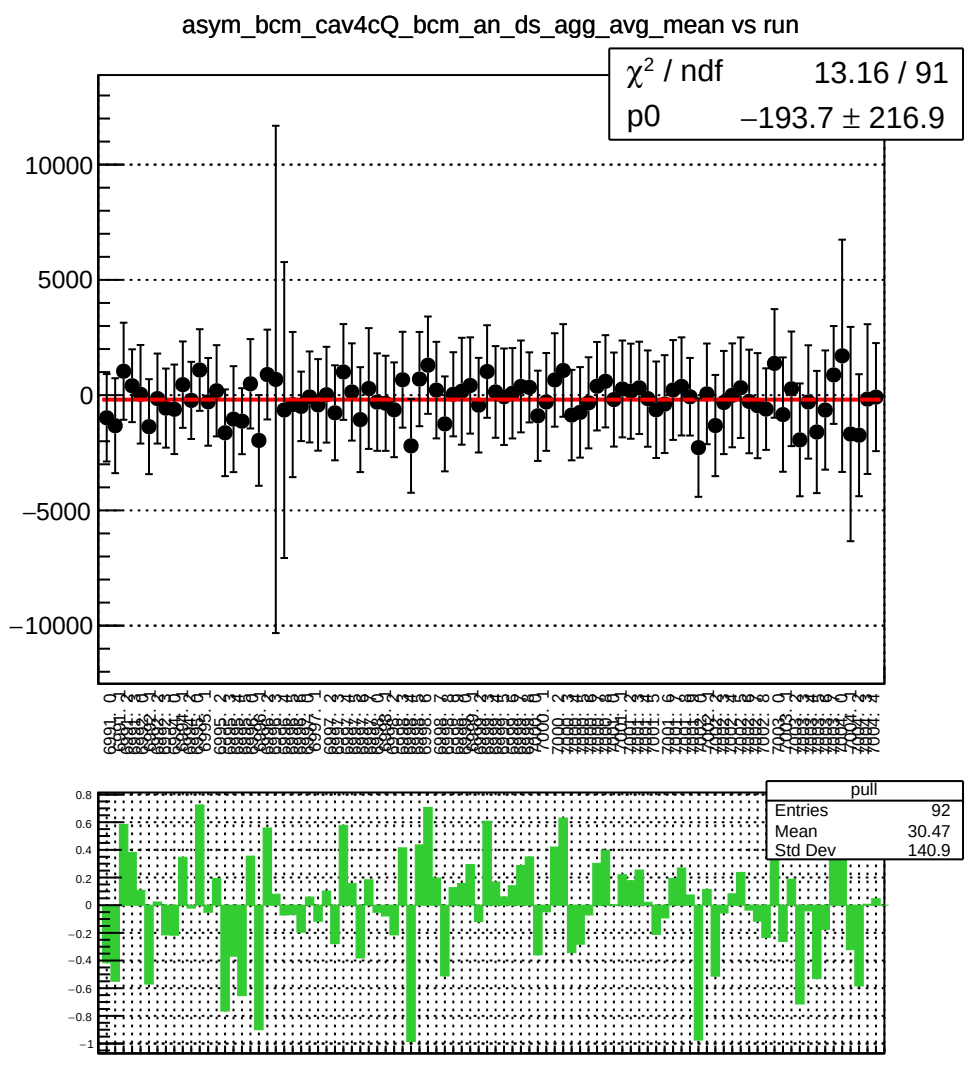

pull1D
Entries 92
Mean −0.0005674
Std Dev 0.3712
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

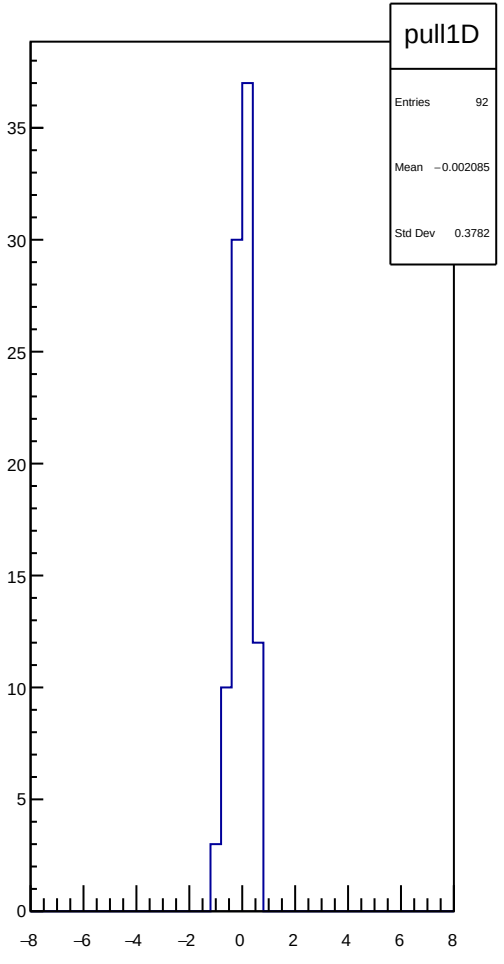

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.833e+04 / 91
p0 201 ± 0.1534
1000
800
600
400
200

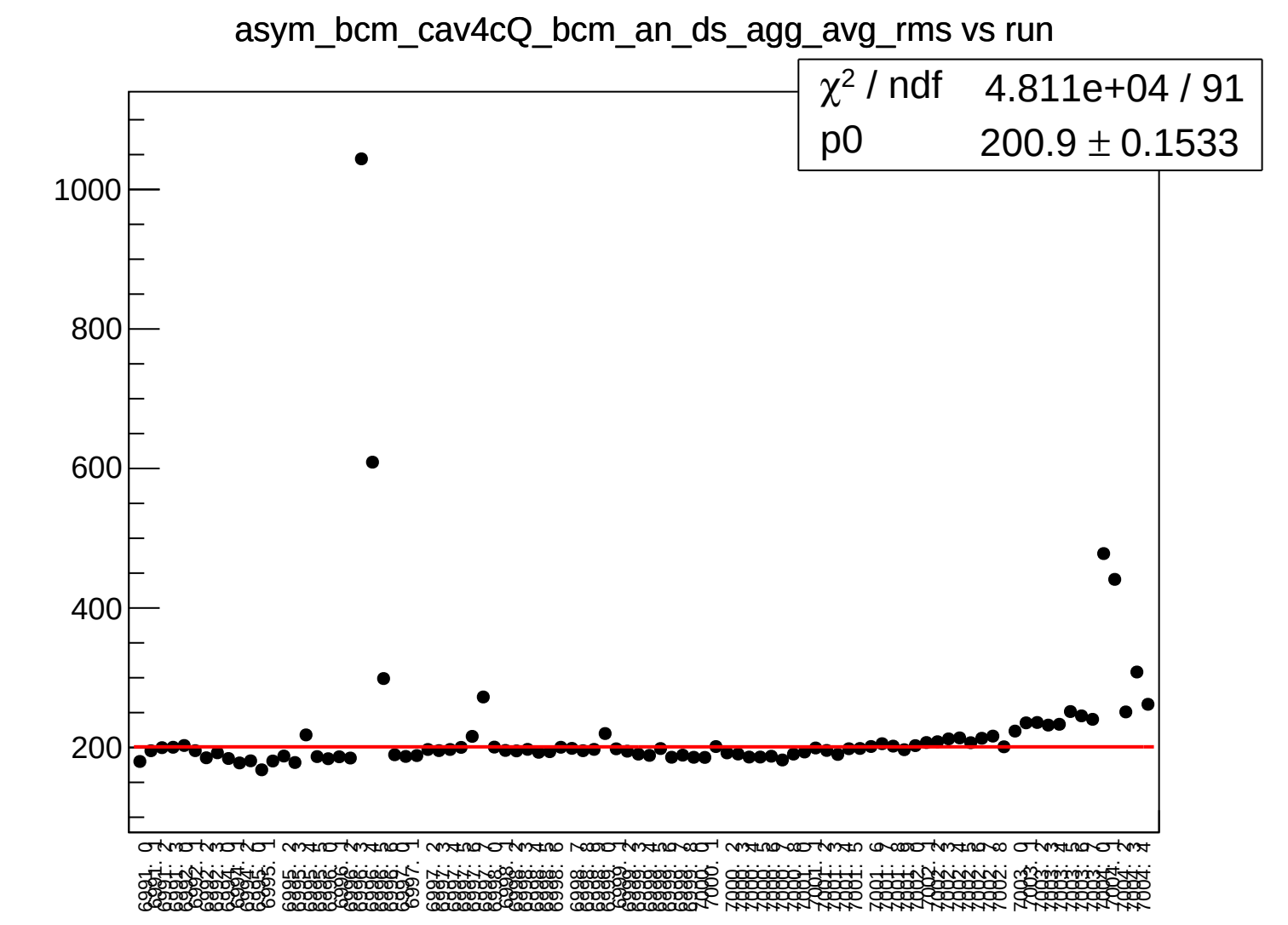

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 97.4 / 91
p0 66.43 ± 28.37
1000
500
0
−500
−1000
pull
Entries 92
Mean 205.5
Std Dev 0
2
1
0
−1
−2

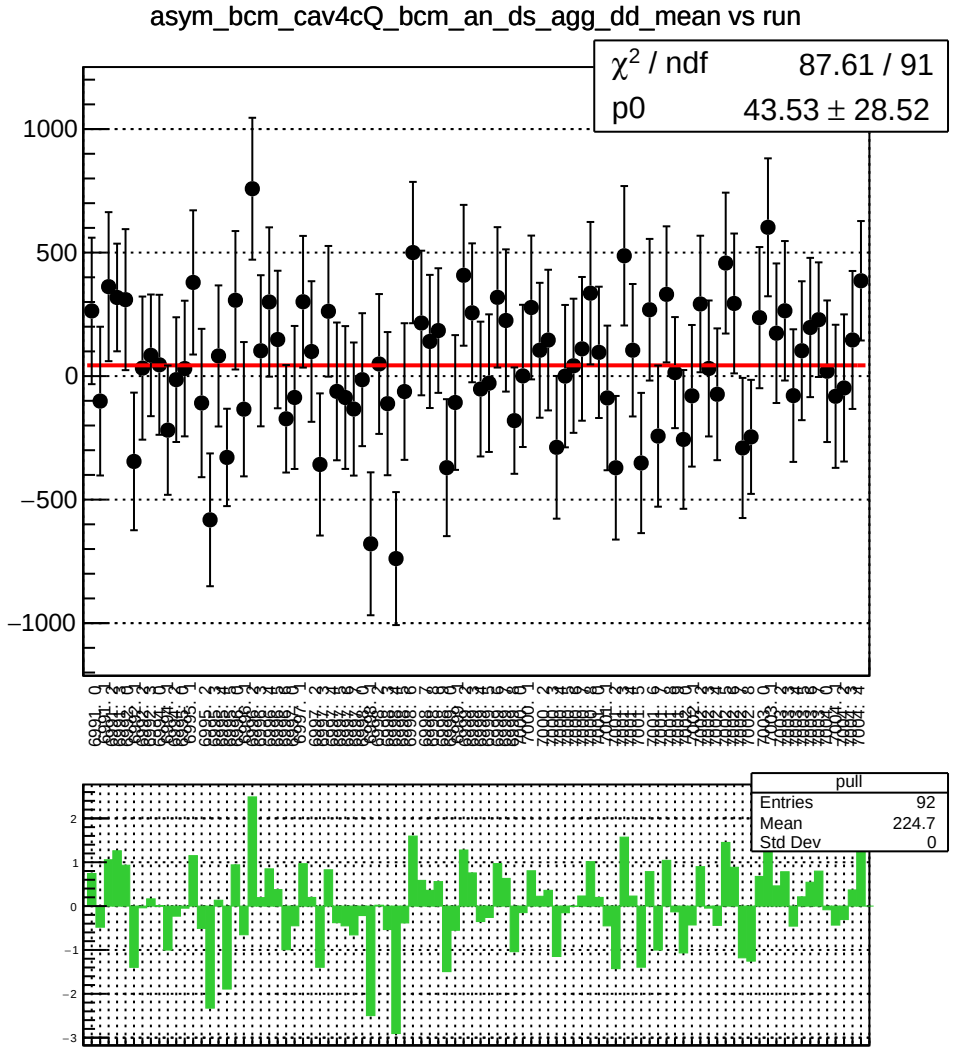

pull1D
Entries 92
Mean 0.01003
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

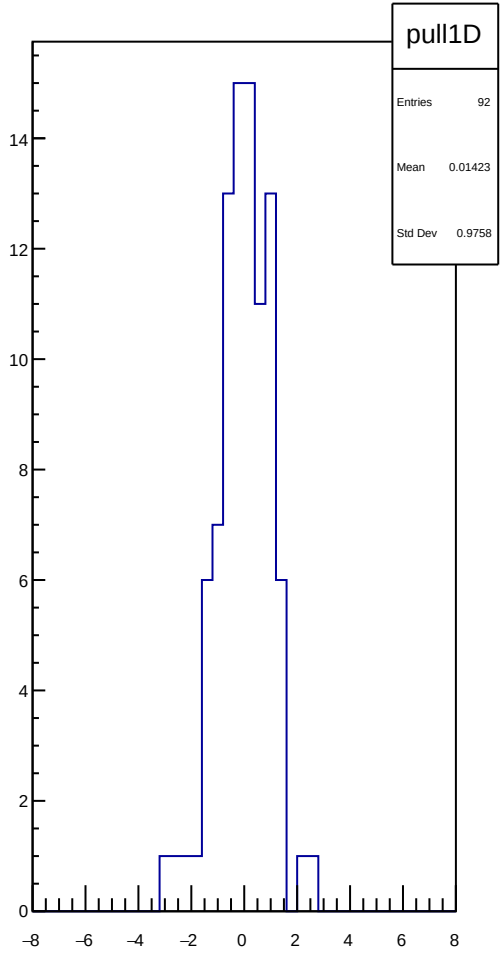

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1533 / 91
p0 26.65 ± 0.02006
29
28
27
26
25

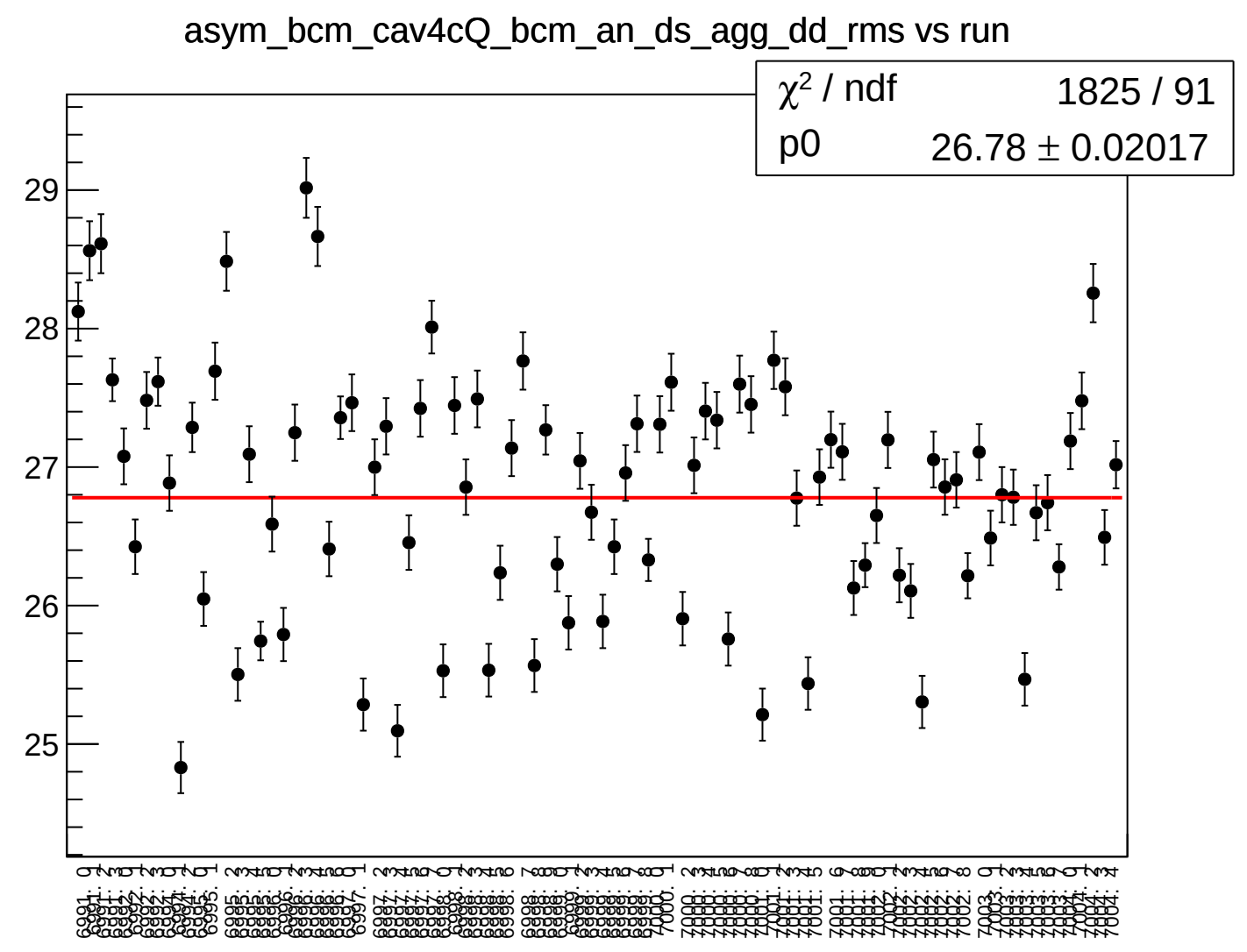

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.16 / 91
p0 −193.7 ± 216.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 30.47
Std Dev 140.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

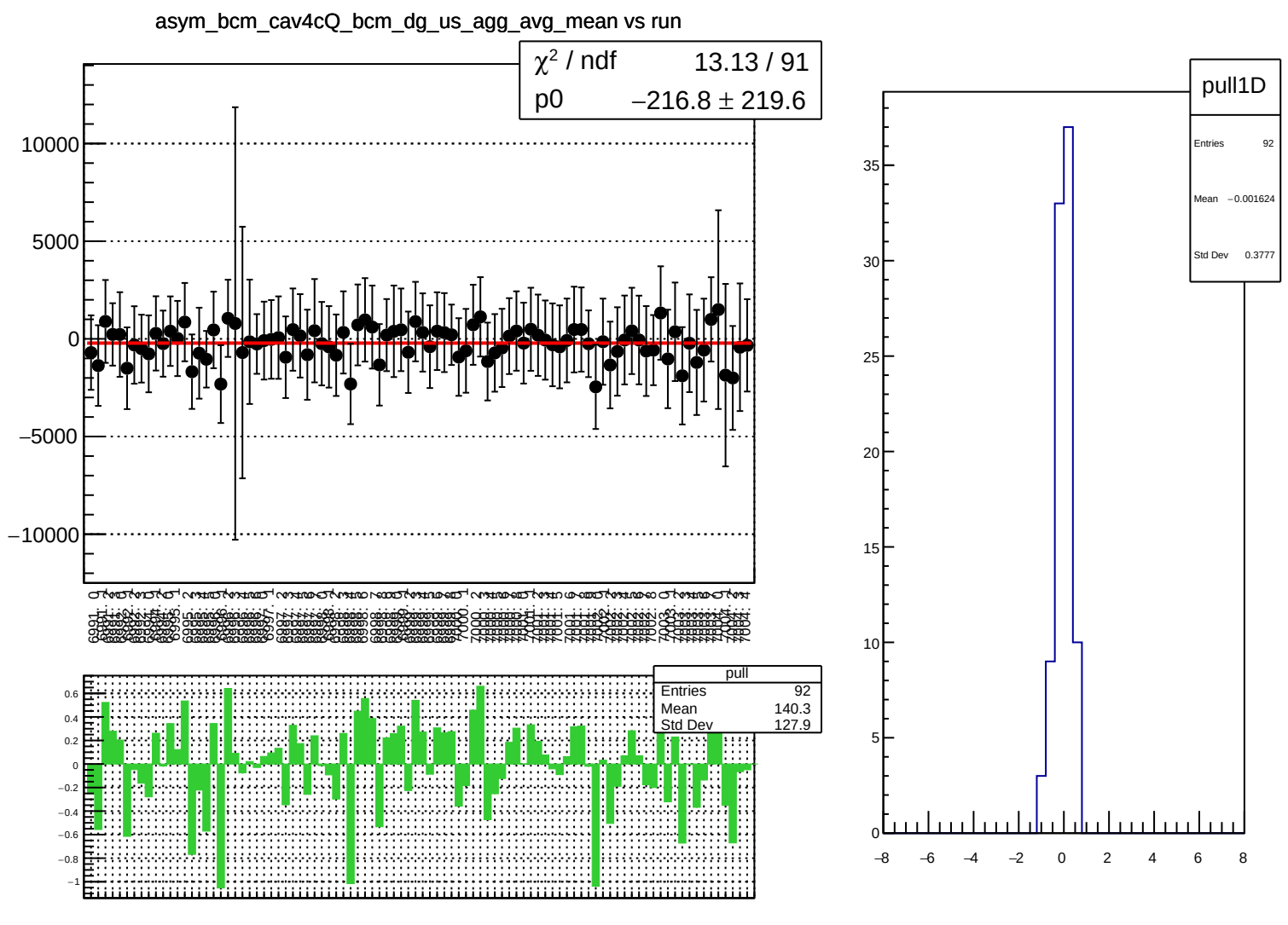

pull1D
Entries 92
Mean −0.002085
Std Dev 0.3782
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

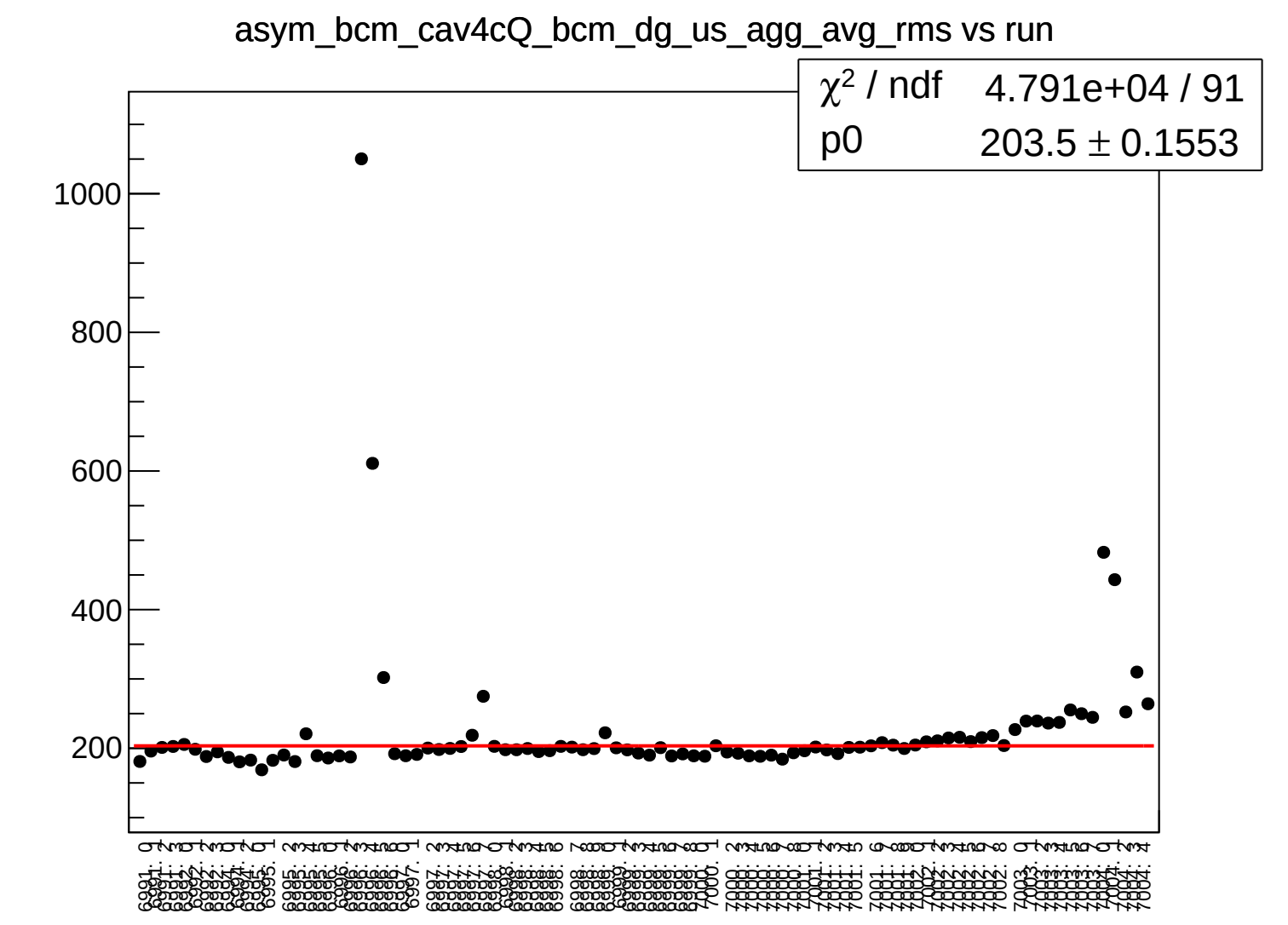

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.811e+04 / 91
p0 200.9 ± 0.1533
1000
800
600
400
200

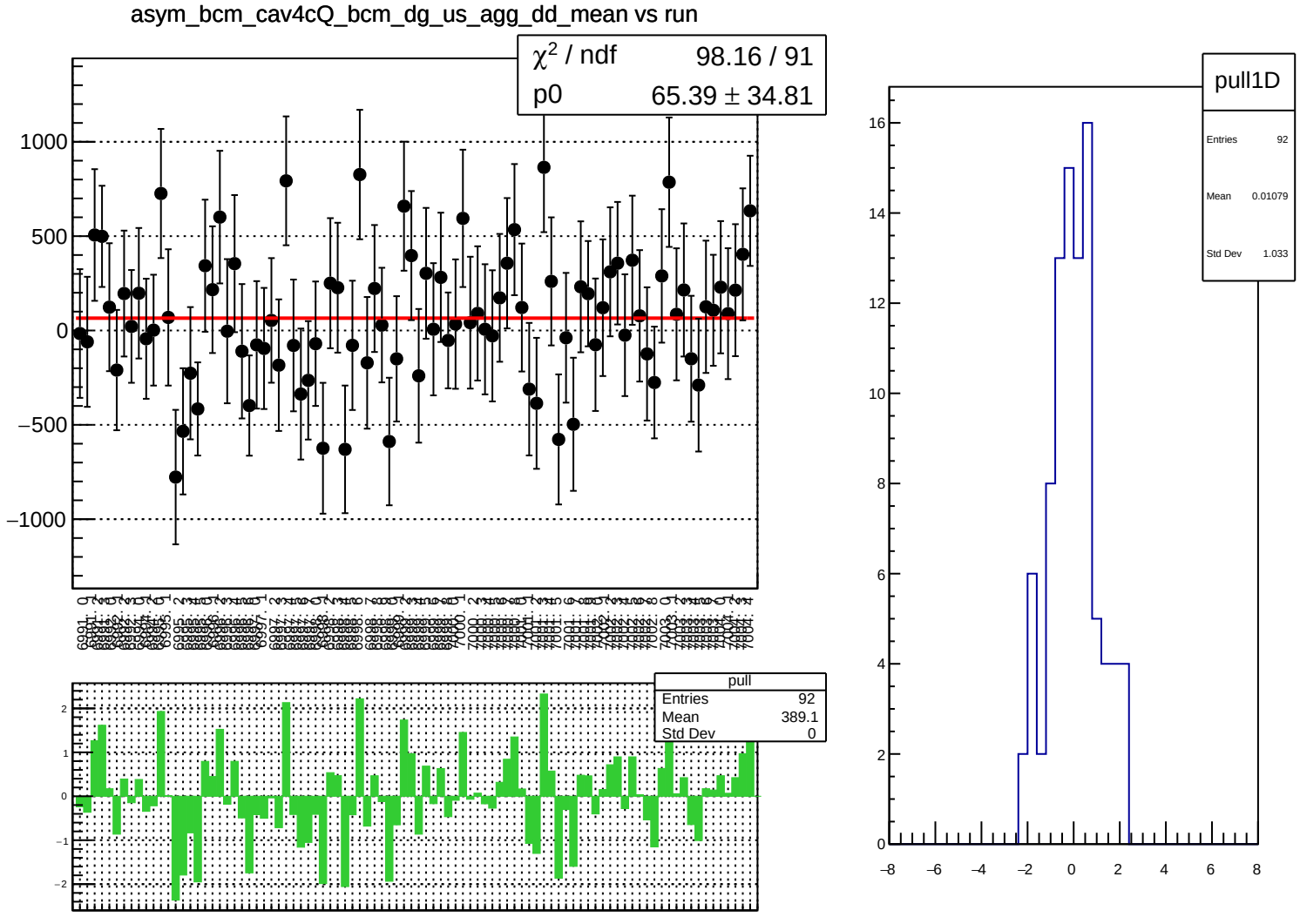

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 87.61 / 91
p0 43.53 ± 28.52
1000
500
0
−500
−1000
pull
Entries 92
Mean 224.7
Std Dev 0
2
1
0
−1
−2
−3

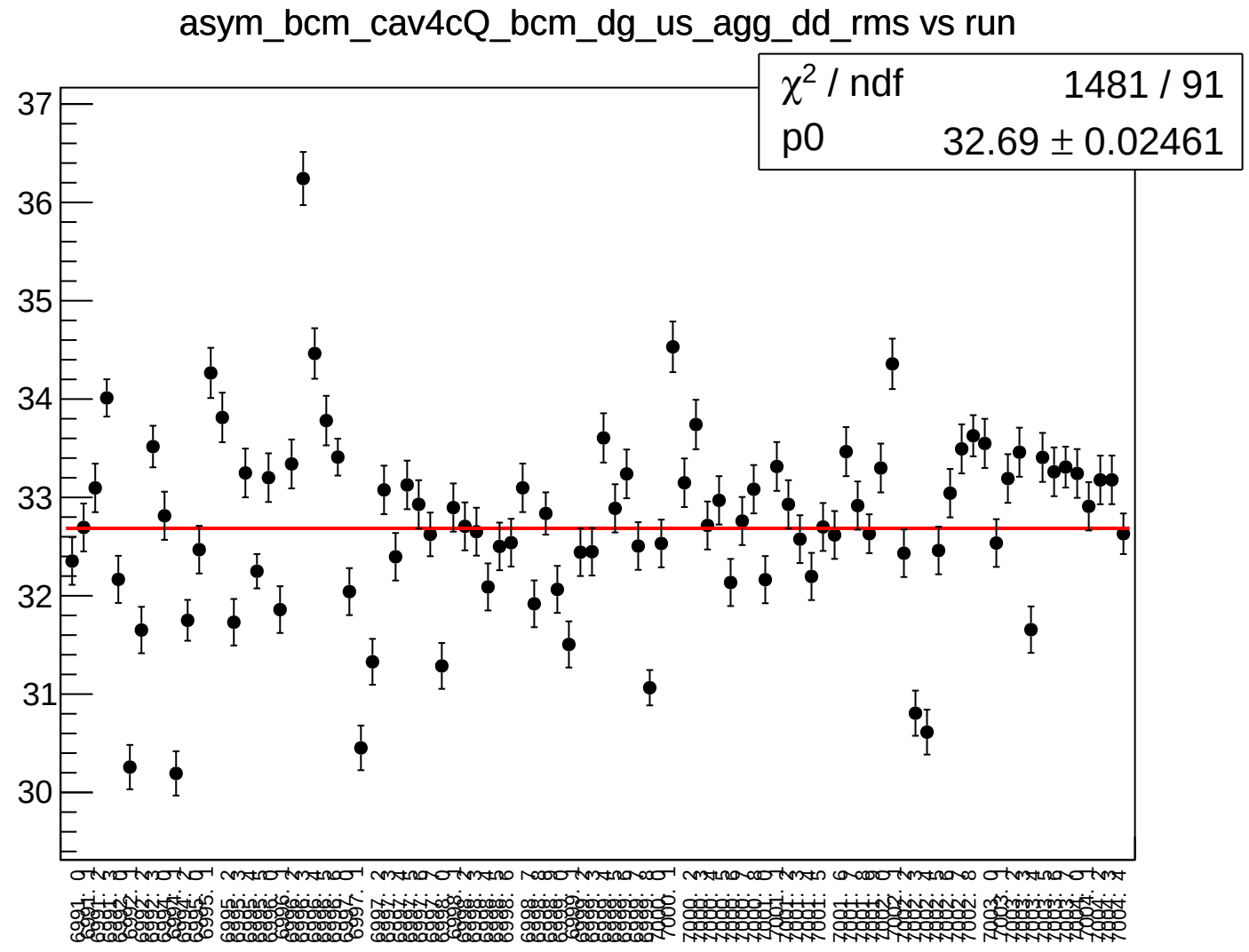

pull1D
Entries 92
Mean 0.01423
Std Dev 0.9758
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

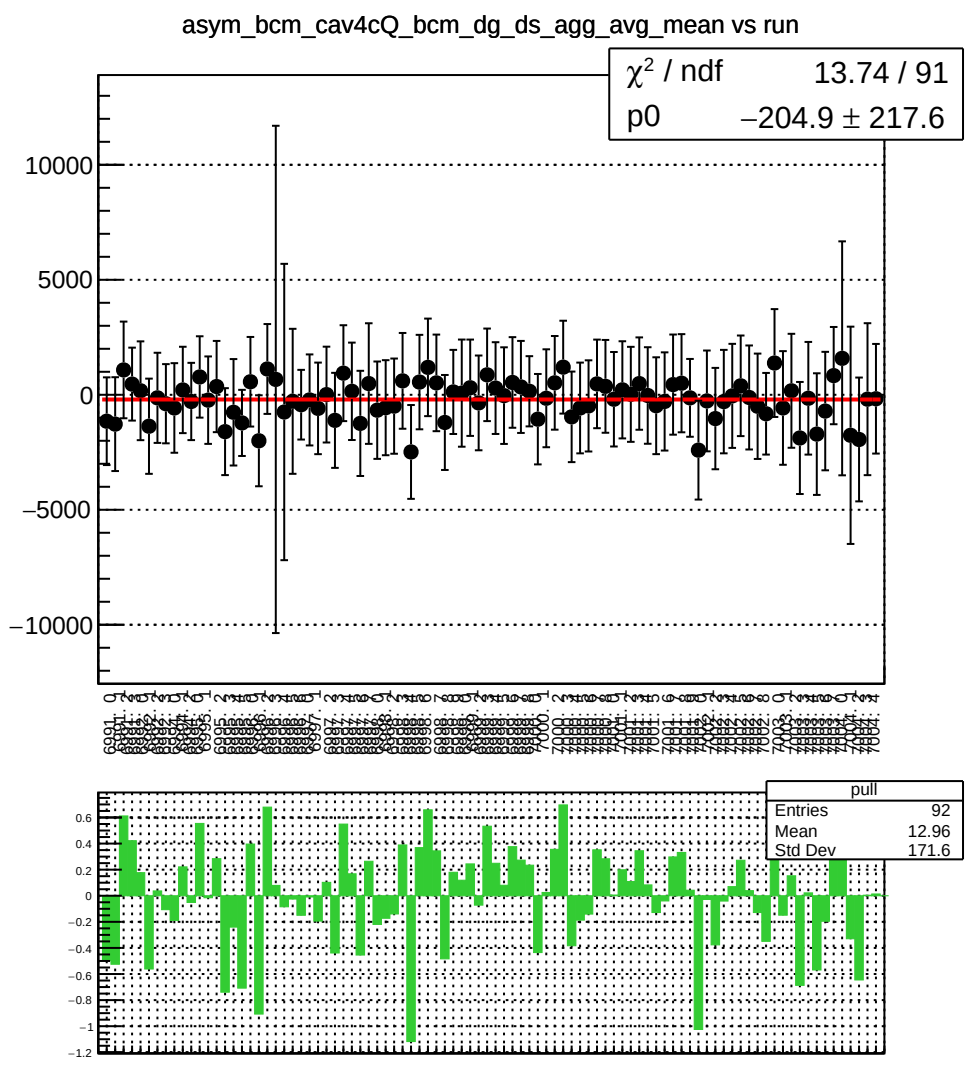

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1825 / 91
p0 26.78 ± 0.02017
29
28
27
26
25

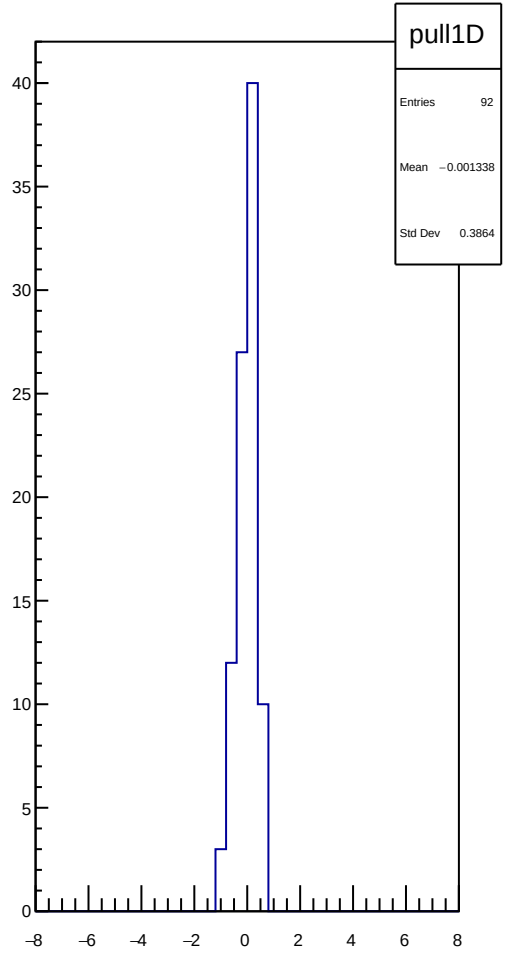

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 13.13 / 91
p0 −216.8 ± 219.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 140.3
Std Dev 127.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean −0.001624
Std Dev 0.3777
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

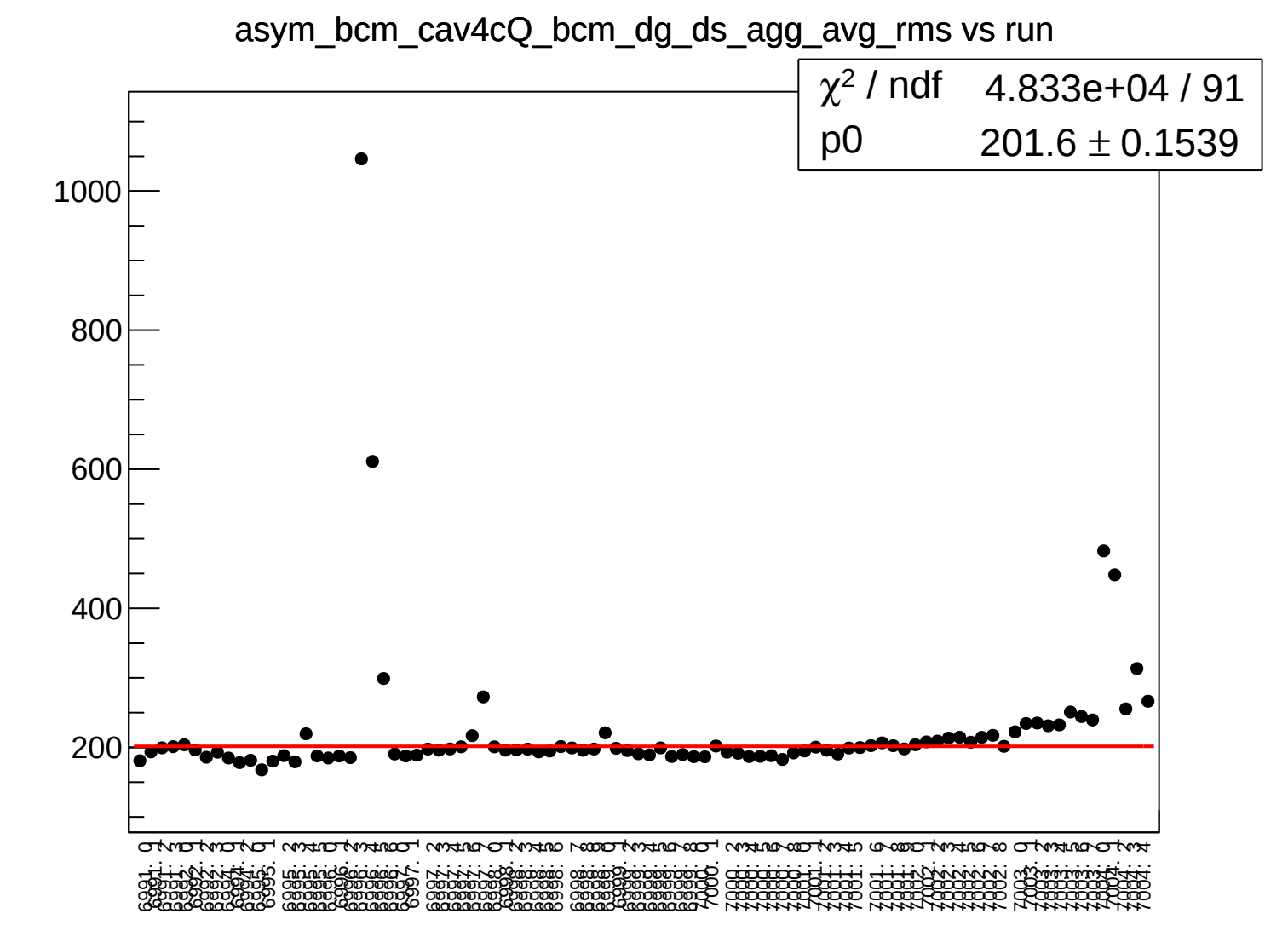

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4.791e+04 / 91
p0 203.5 ± 0.1553
1000
800
600
400
200

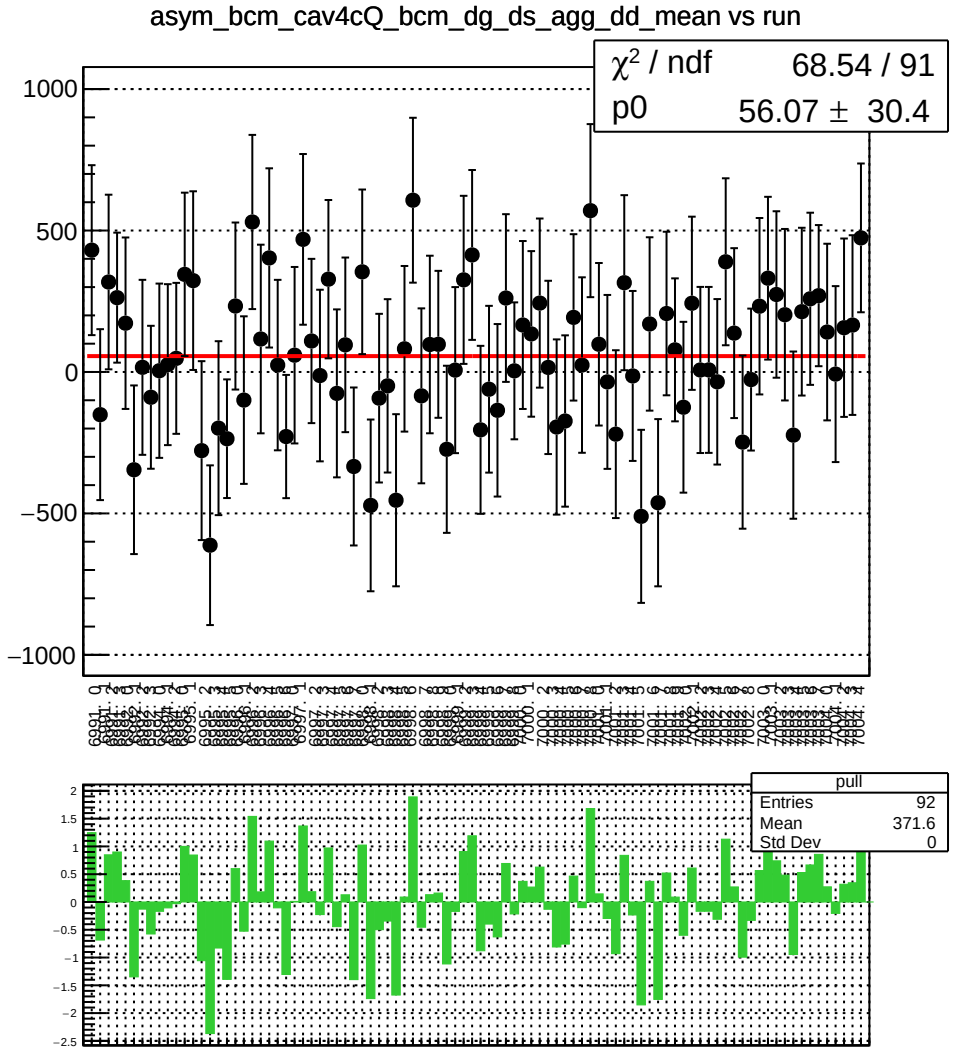

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 98.16 / 91
p0 65.39 ± 34.81
1000
500
0
−500
−1000
pull
Entries 92
Mean 389.1
Std Dev 0
pull1D
Entries 92
Mean 0.01079
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

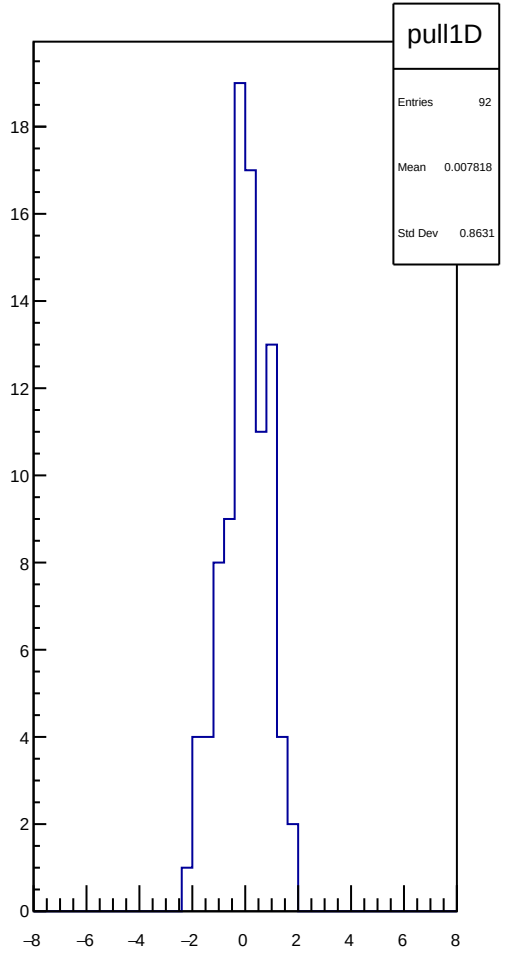

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1481 / 91
p0 32.69 ± 0.02461
37
36
35
34
33
32
31
30

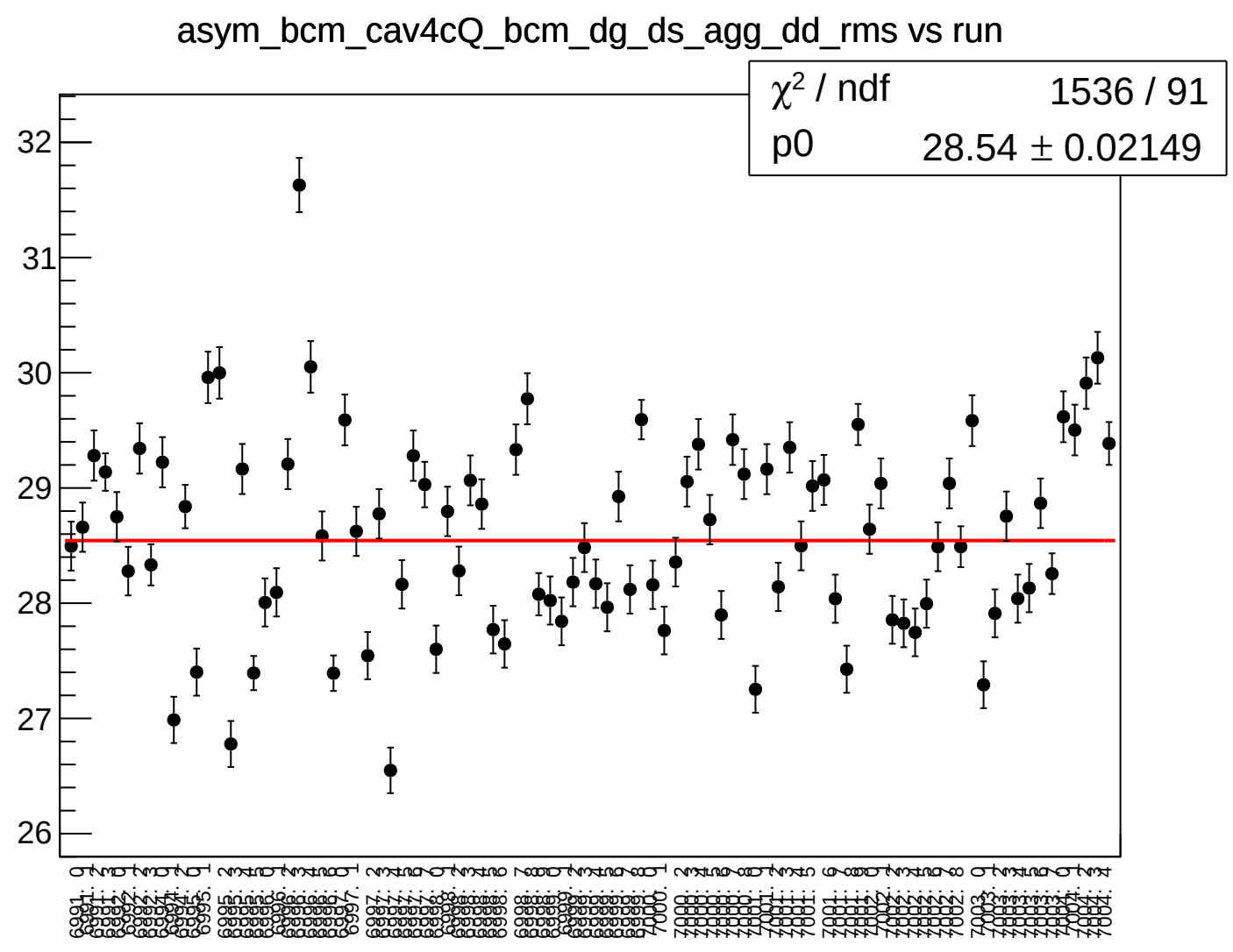

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.74 / 91
p0 −204.9 ± 217.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 12.96
Std Dev 171.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

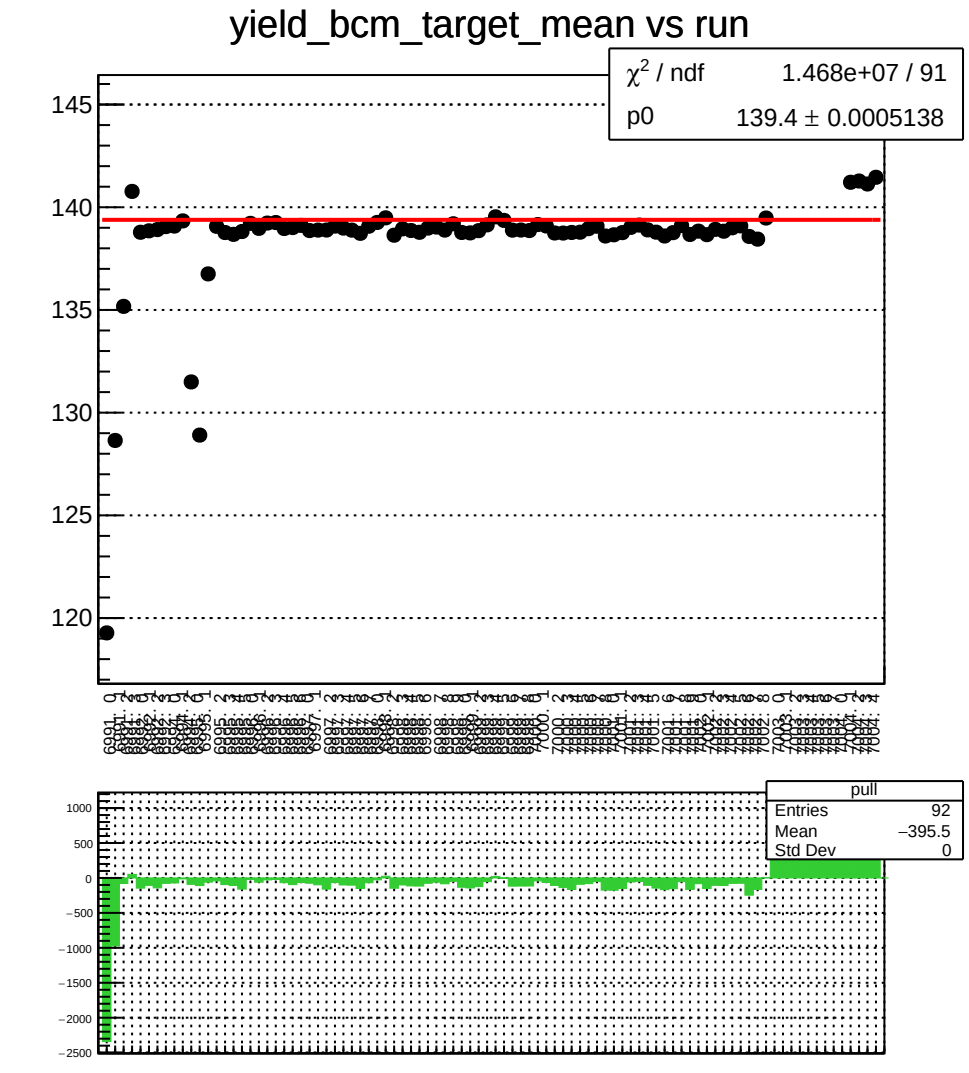

pull1D
Entries 92
Mean −0.001338
Std Dev 0.3864
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

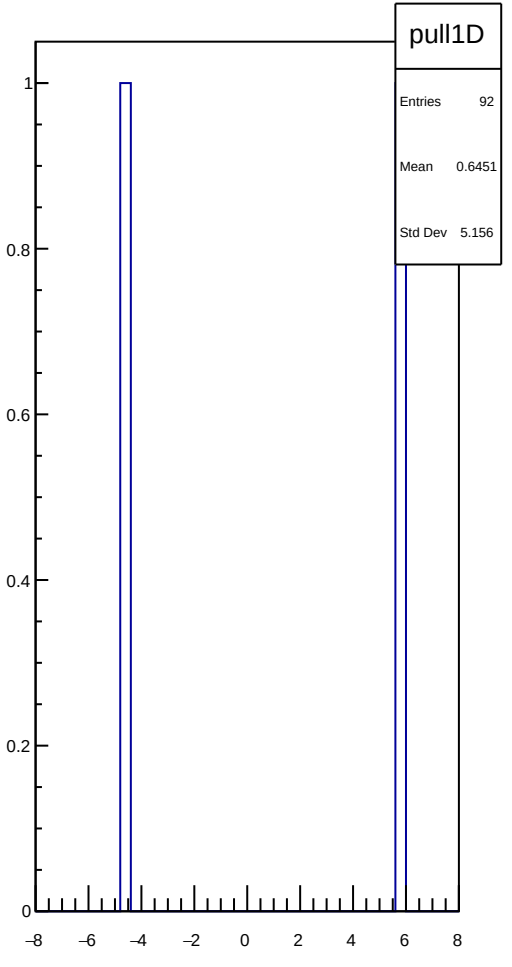

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4.833e+04 / 91
p0 201.6 ± 0.1539
1000
800
600
400
200

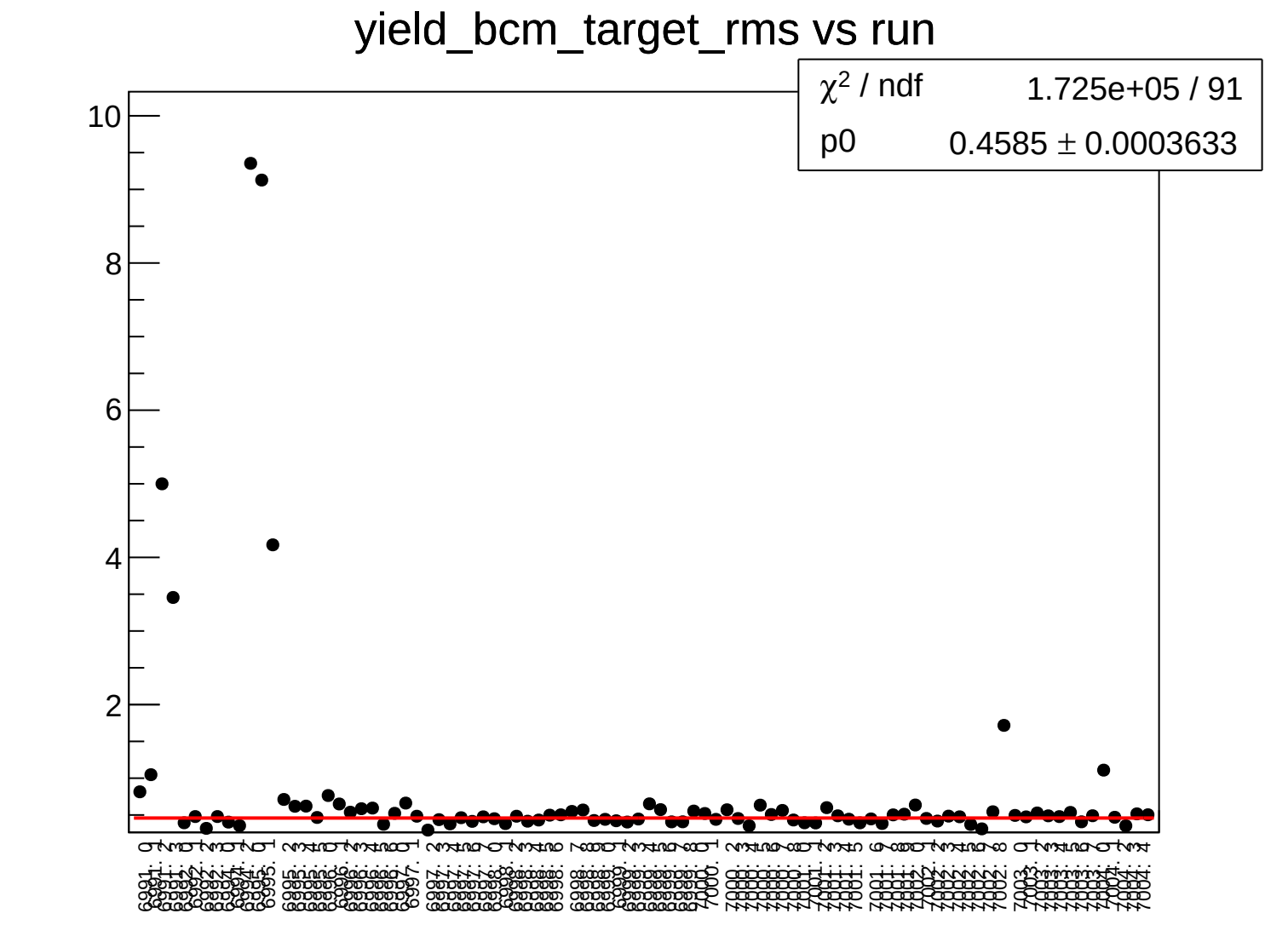

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 68.54 / 91
p0 56.07 ± 30.4
pull
Entries 92
Mean 371.6
Std Dev 0

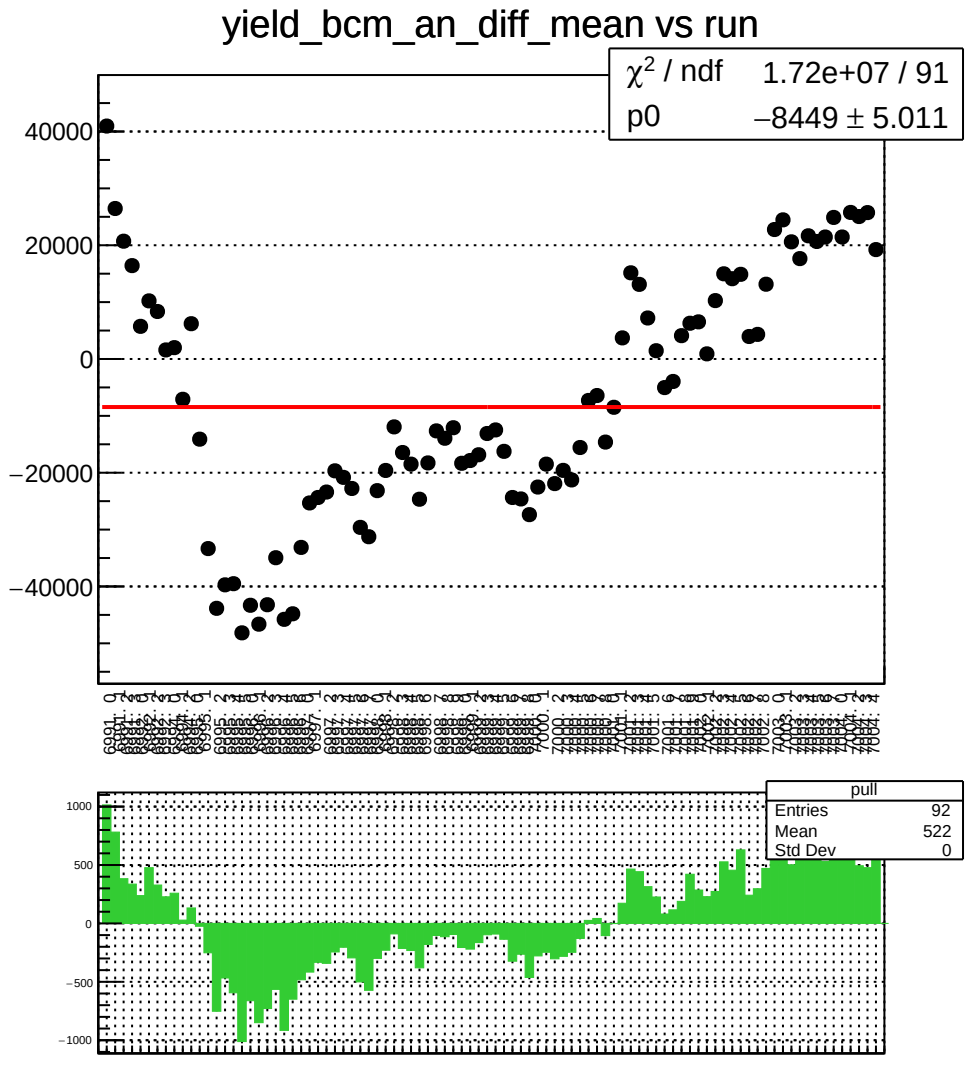

pull1D
Entries 92
Mean 0.007818
Std Dev 0.8631

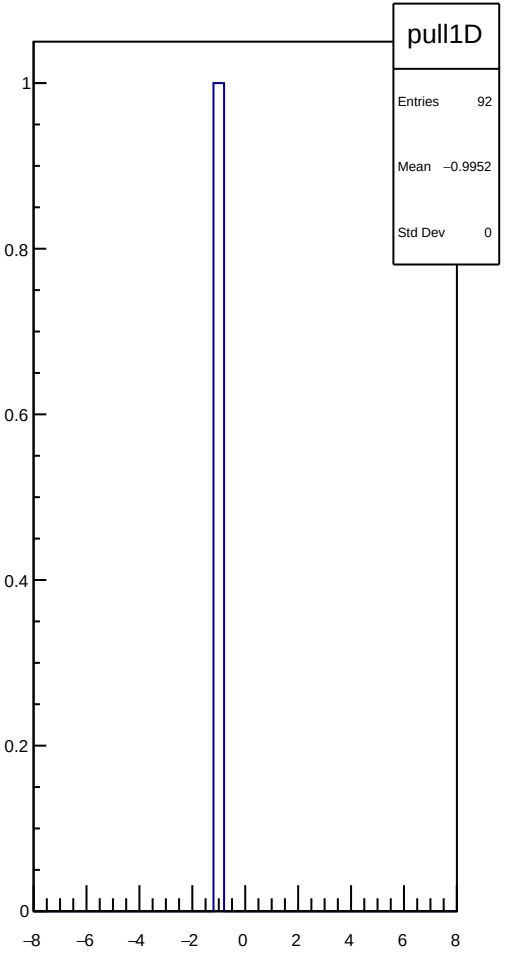

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1536 / 91
p0 28.54 ± 0.02149
32
31
30
29
28
27
26

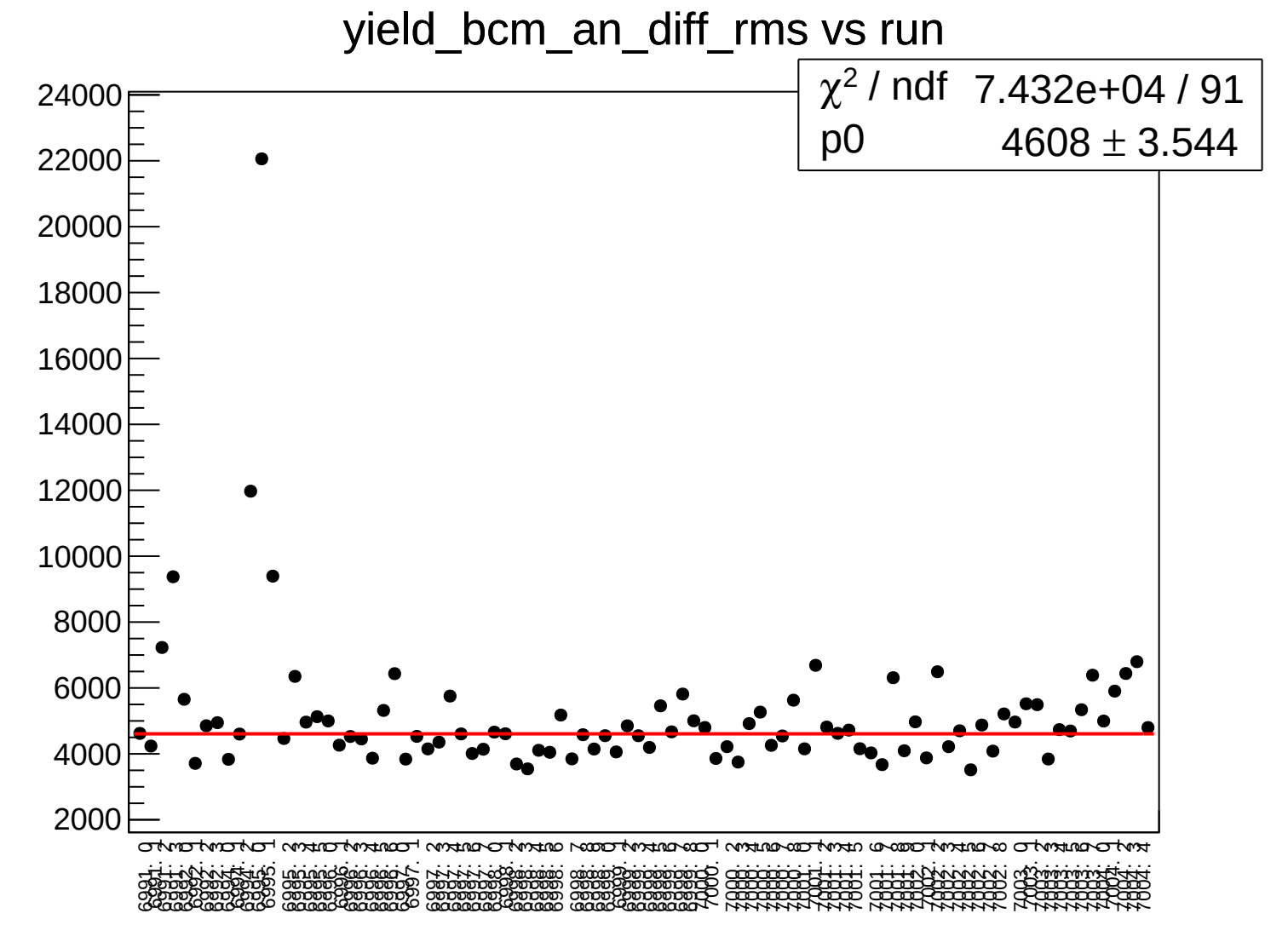

yield_bcm_target_mean vs run
χ² / ndf 1.468e+07 / 91
p0 139.4 ± 0.0005138
145
140
135
130
125
120
pull
Entries 92
Mean −395.5
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

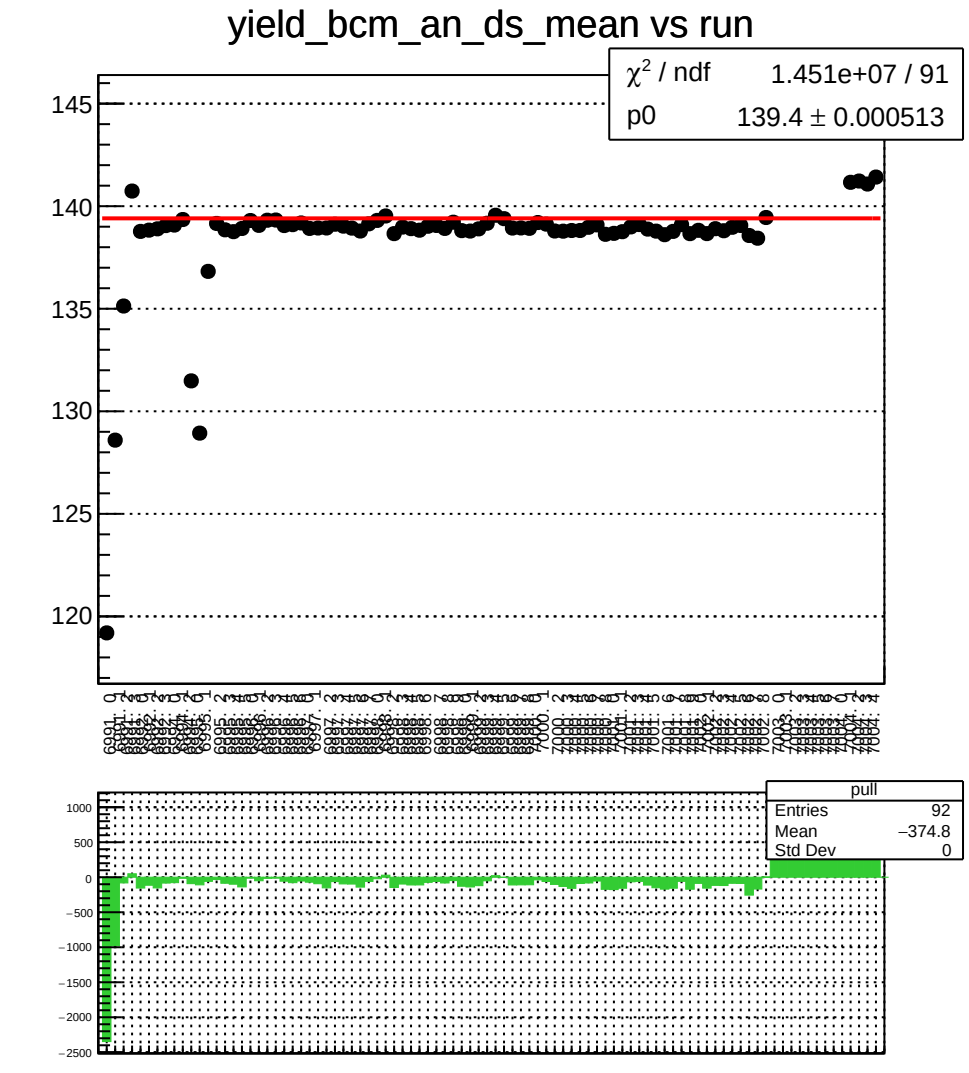

pull1D
Entries 92
Mean 0.6451
Std Dev 5.156
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

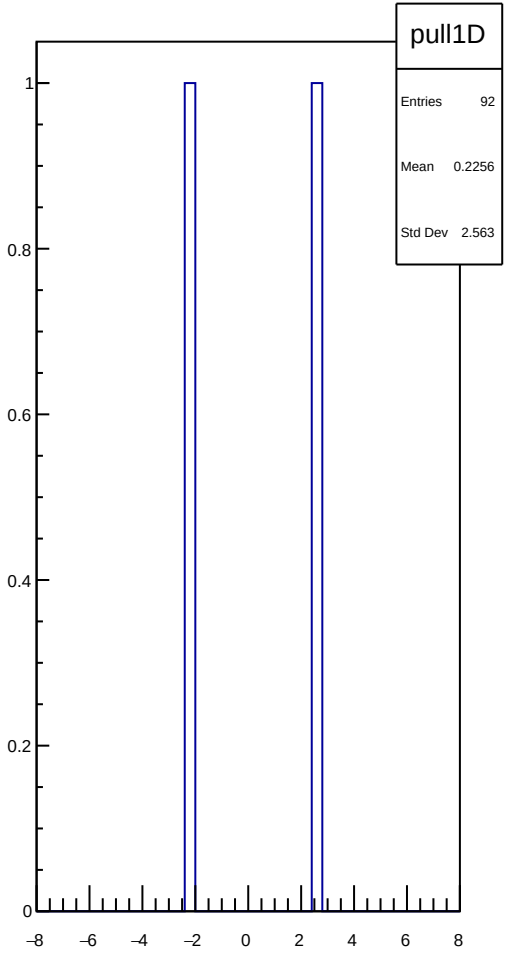

yield_bcm_target_rms vs run
χ² / ndf 1.725e+05 / 91
p0 0.4585 ± 0.0003633
10
8
6
4
2

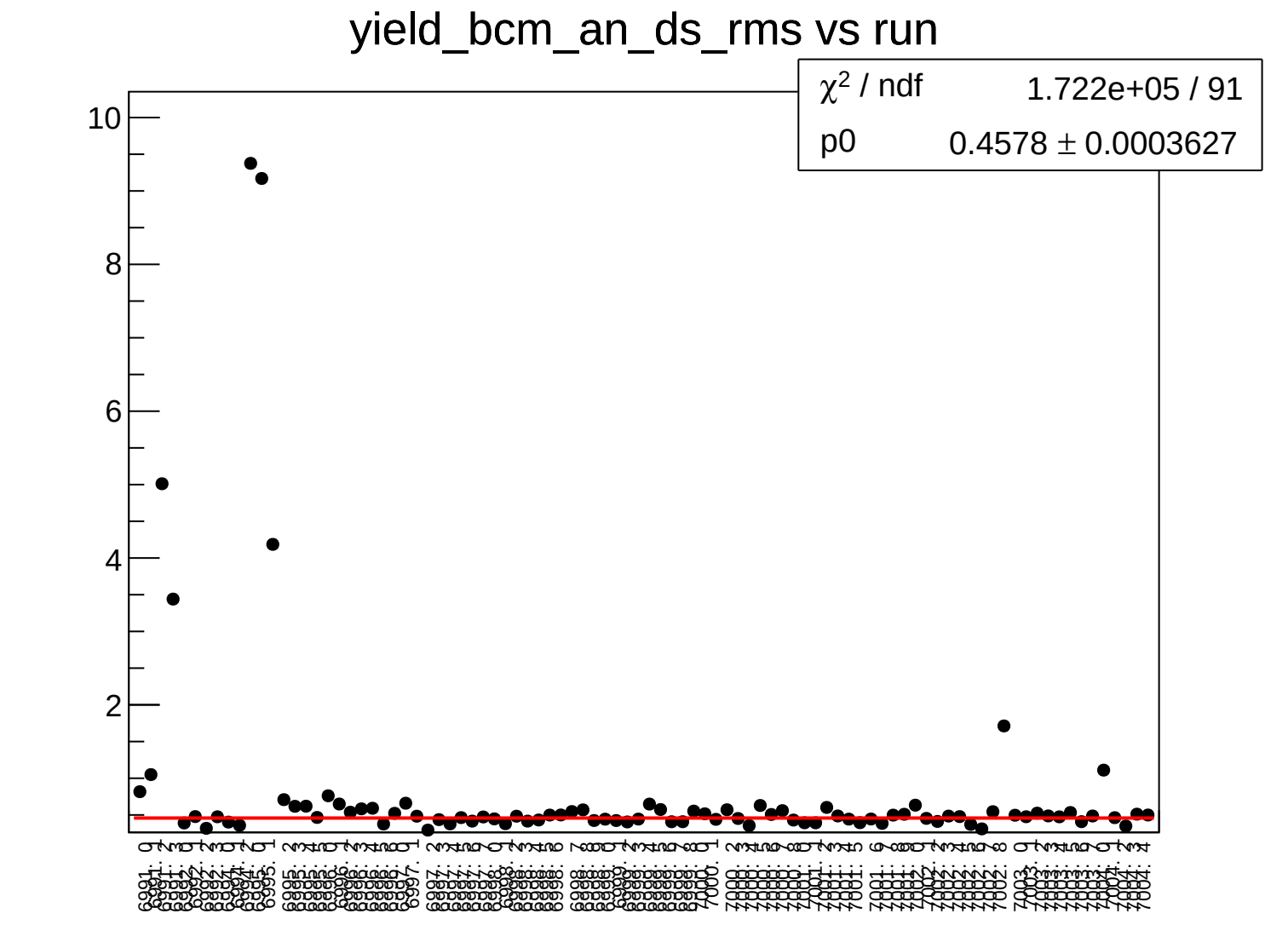

yield_bcm_an_diff_mean vs run
χ² / ndf 1.72e+07 / 91
p0 −8449 ± 5.011
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 522
Std Dev 0
1000
500
0
−500
−1000

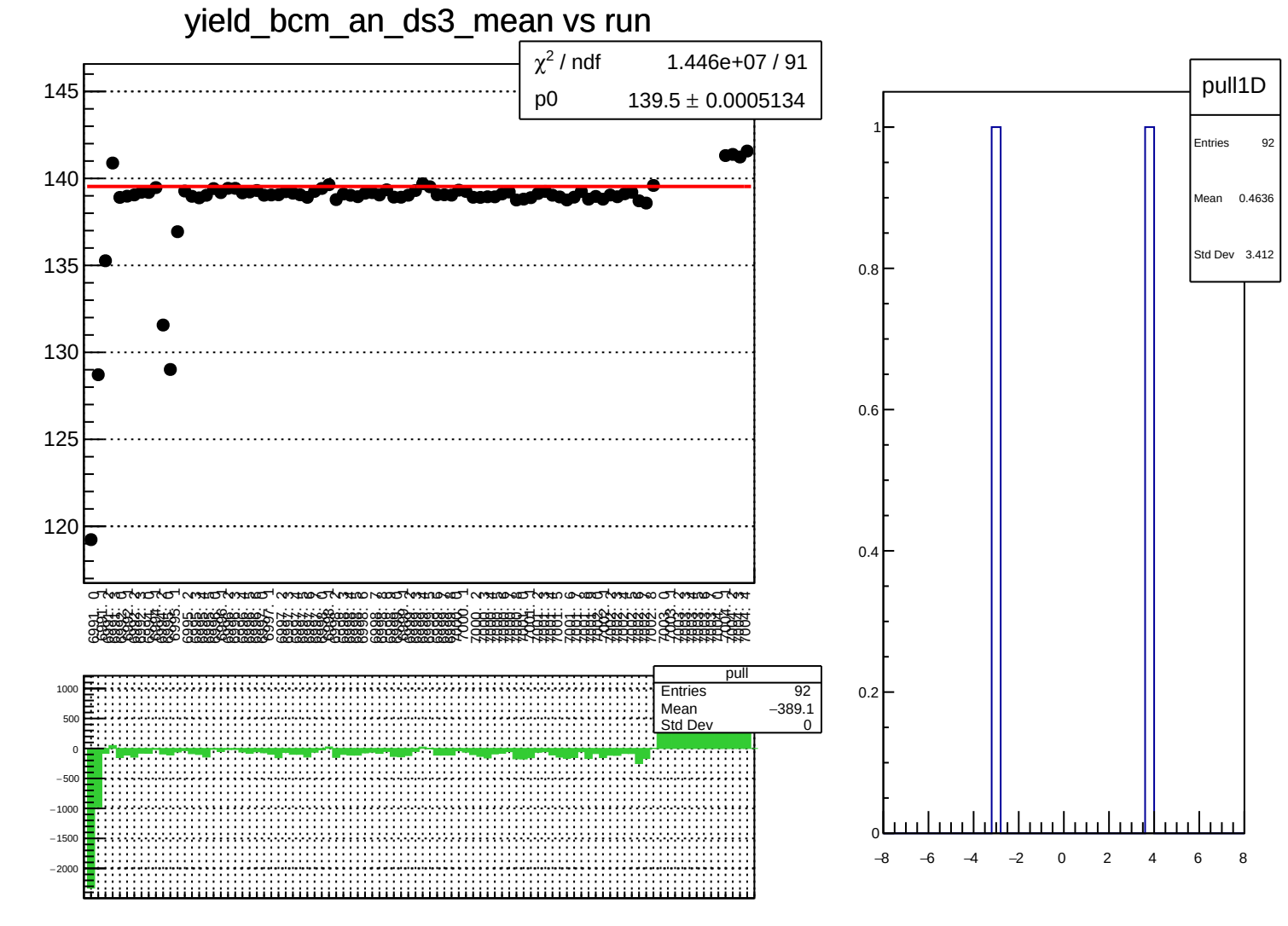

pull1D
Entries 92
Mean −0.9952
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

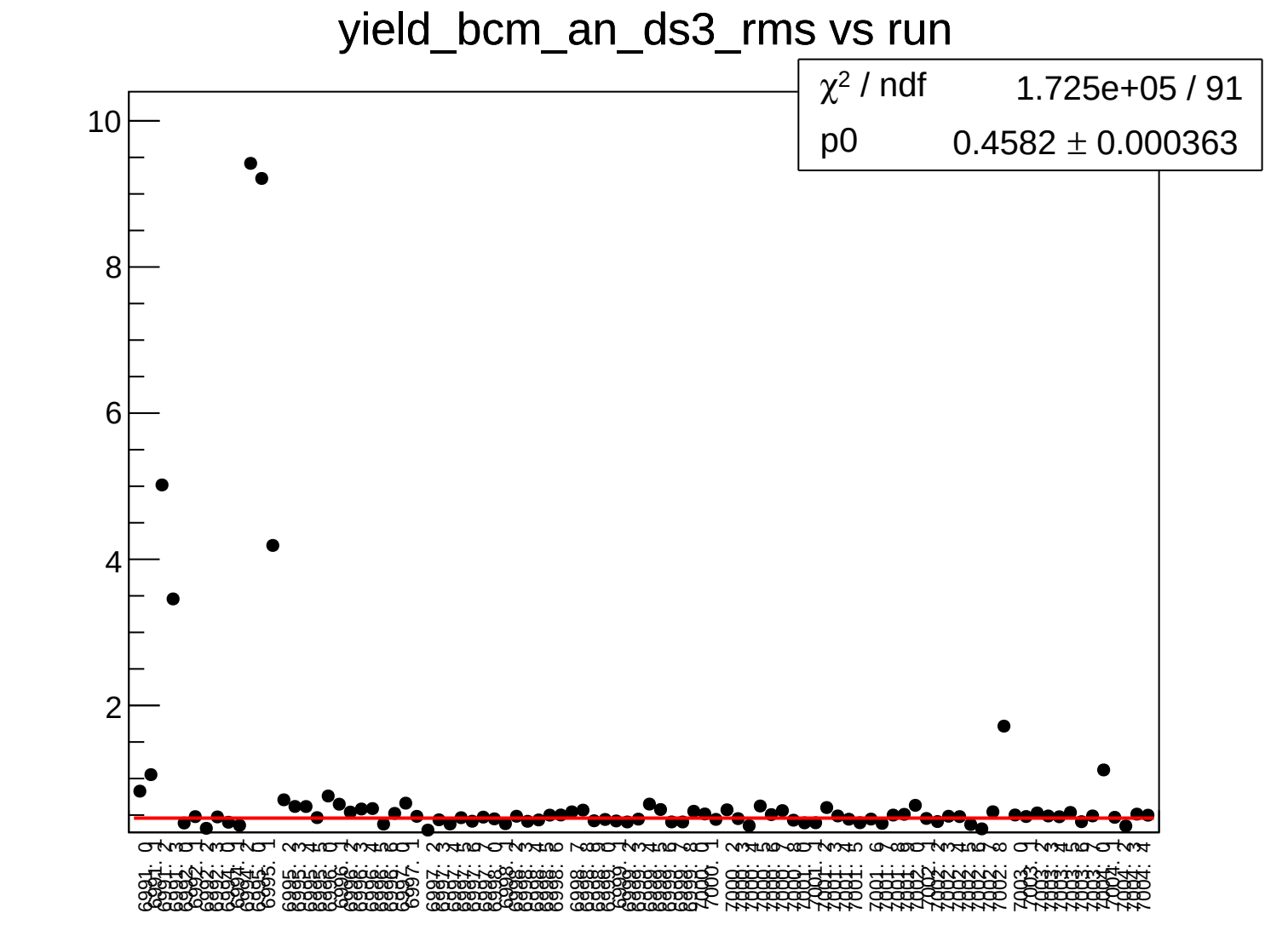

yield_bcm_an_diff_rms vs run
χ^2 / ndf 7.432e+04 / 91
p0 4608 ± 3.544
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

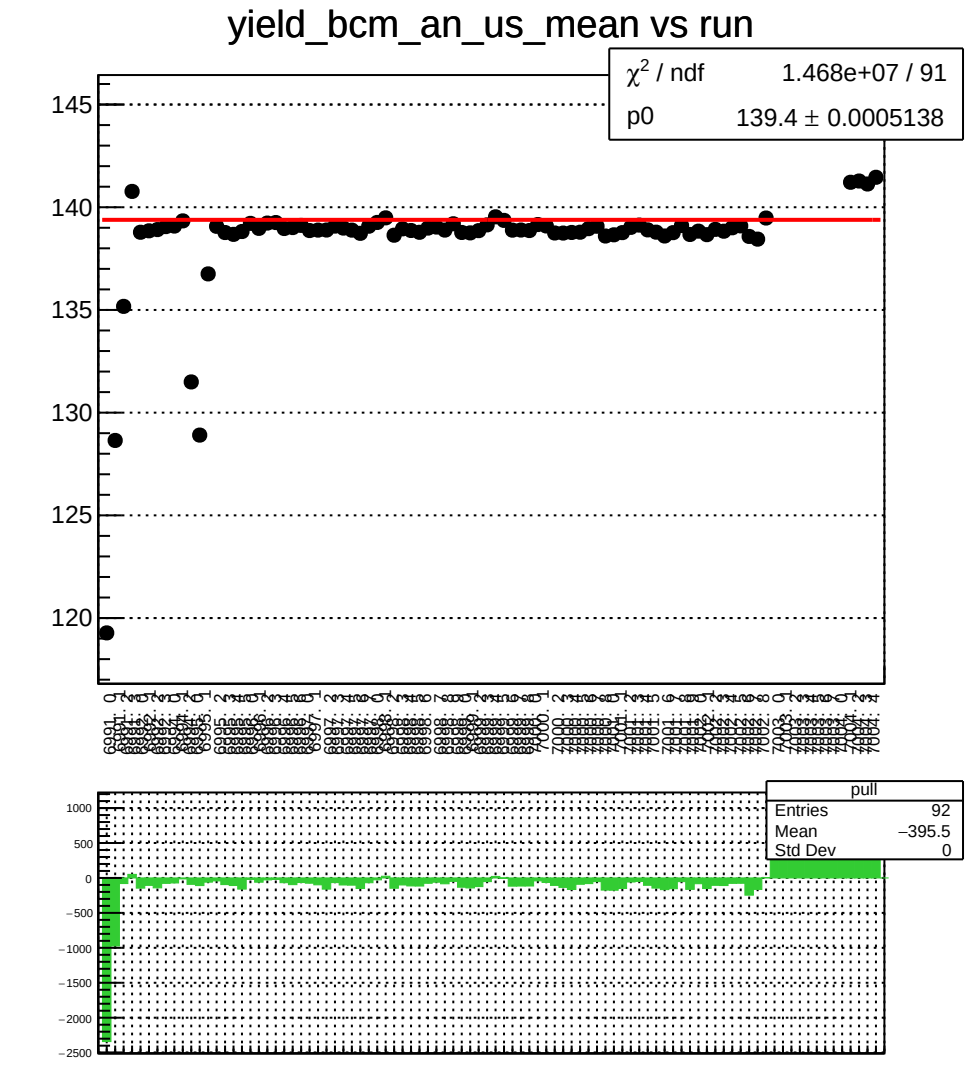

yield_bcm_an_ds_mean vs run
χ² / ndf 1.451e+07 / 91
p0 139.4 ± 0.000513
145
140
135
130
125
120
pull
Entries 92
Mean −374.8
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

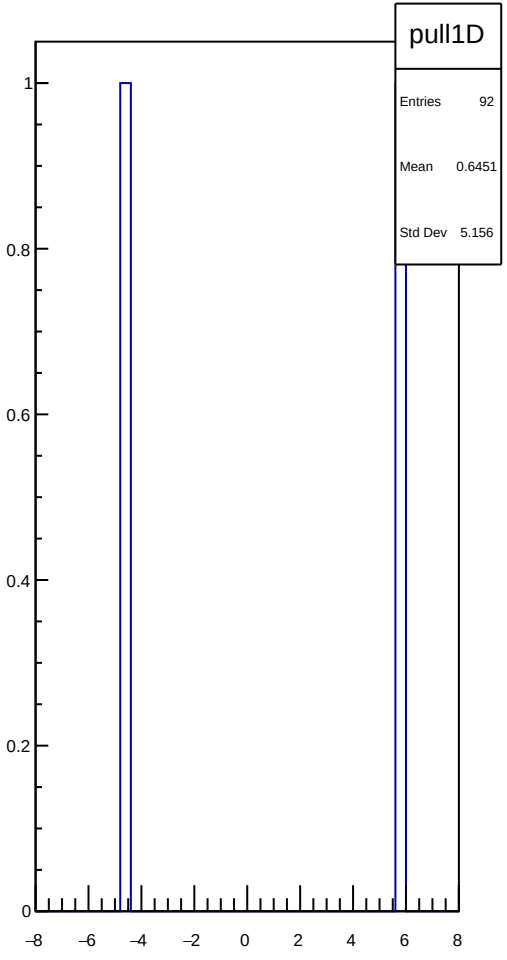

pull1D
Entries 92
Mean 0.2256
Std Dev 2.563
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

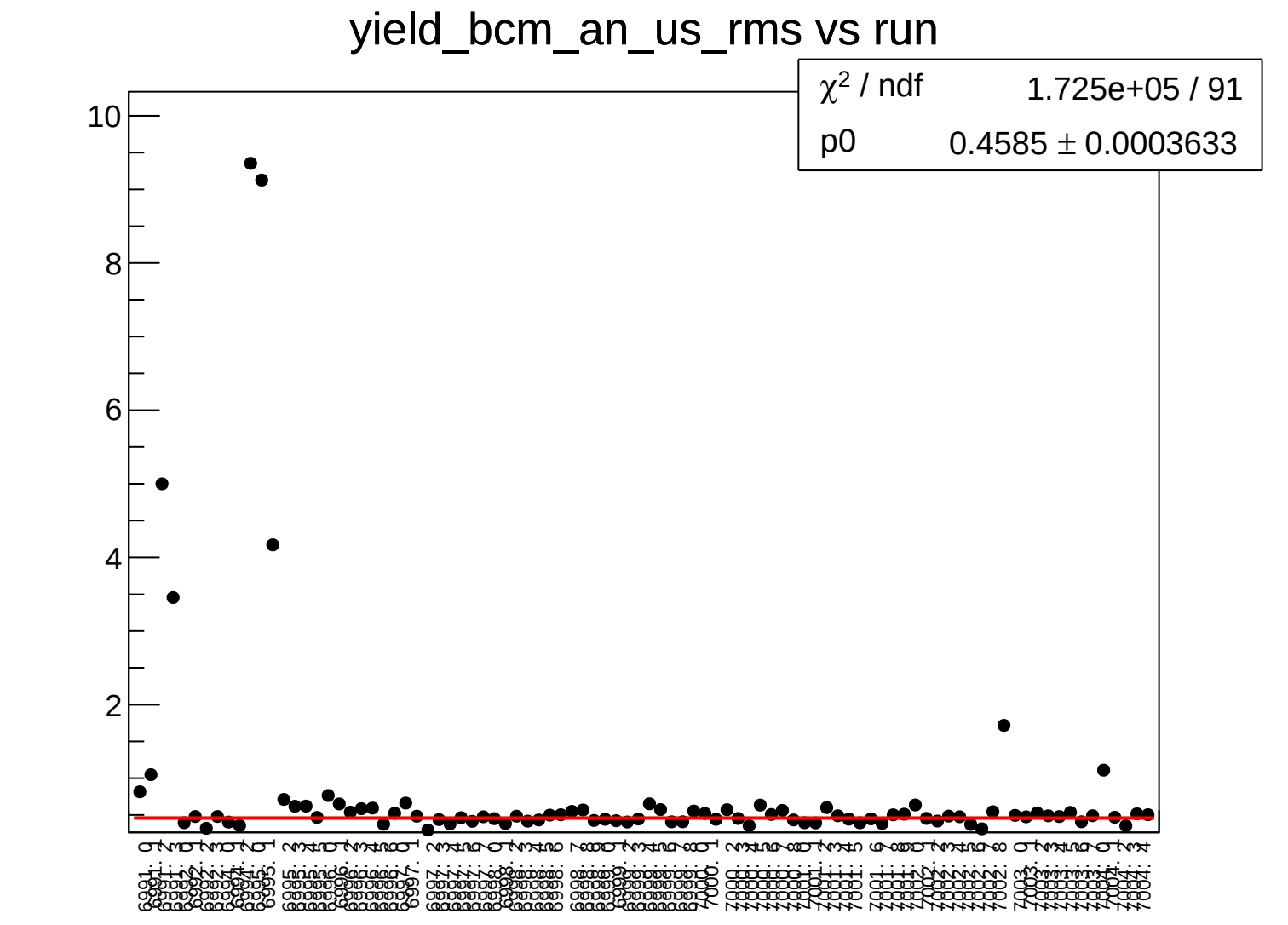

yield_bcm_an_ds_rms vs run
χ² / ndf 1.722e+05 / 91
p0 0.4578 ± 0.0003627
10
8
6
4
2

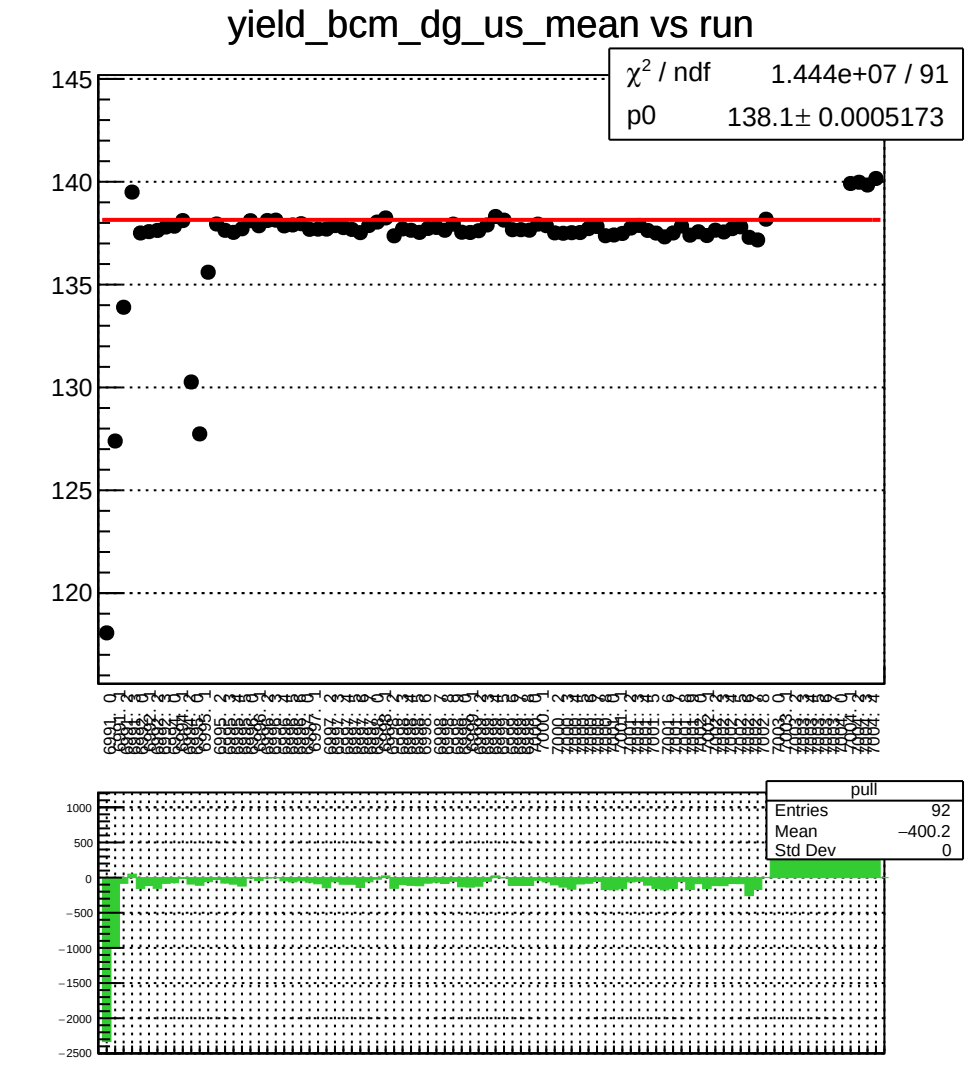

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.446e+07 / 91
p0 139.5 ± 0.0005134
145
140
135
130
125
120
pull
Entries 92
Mean −389.1
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 92
Mean 0.4636
Std Dev 3.412
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

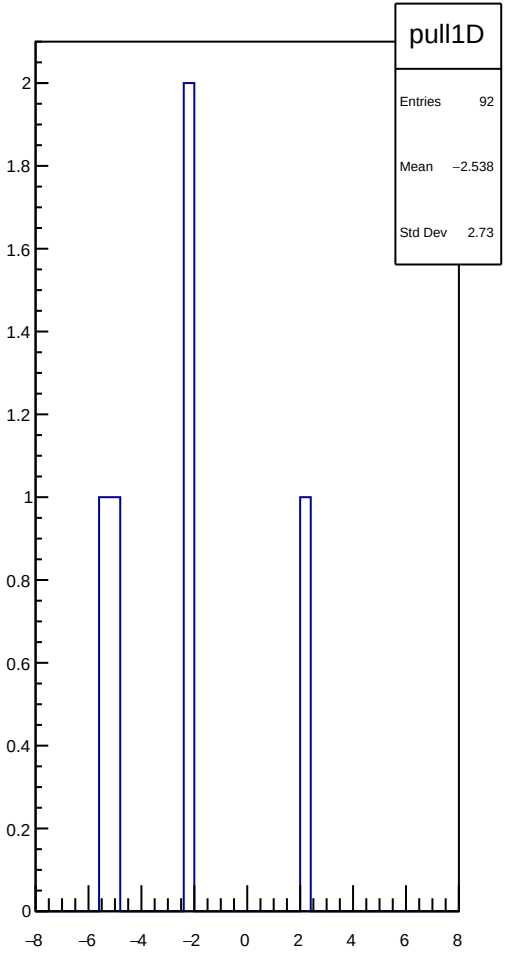

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.725e+05 / 91
p0 0.4582 ± 0.000363
10
8
6
4
2

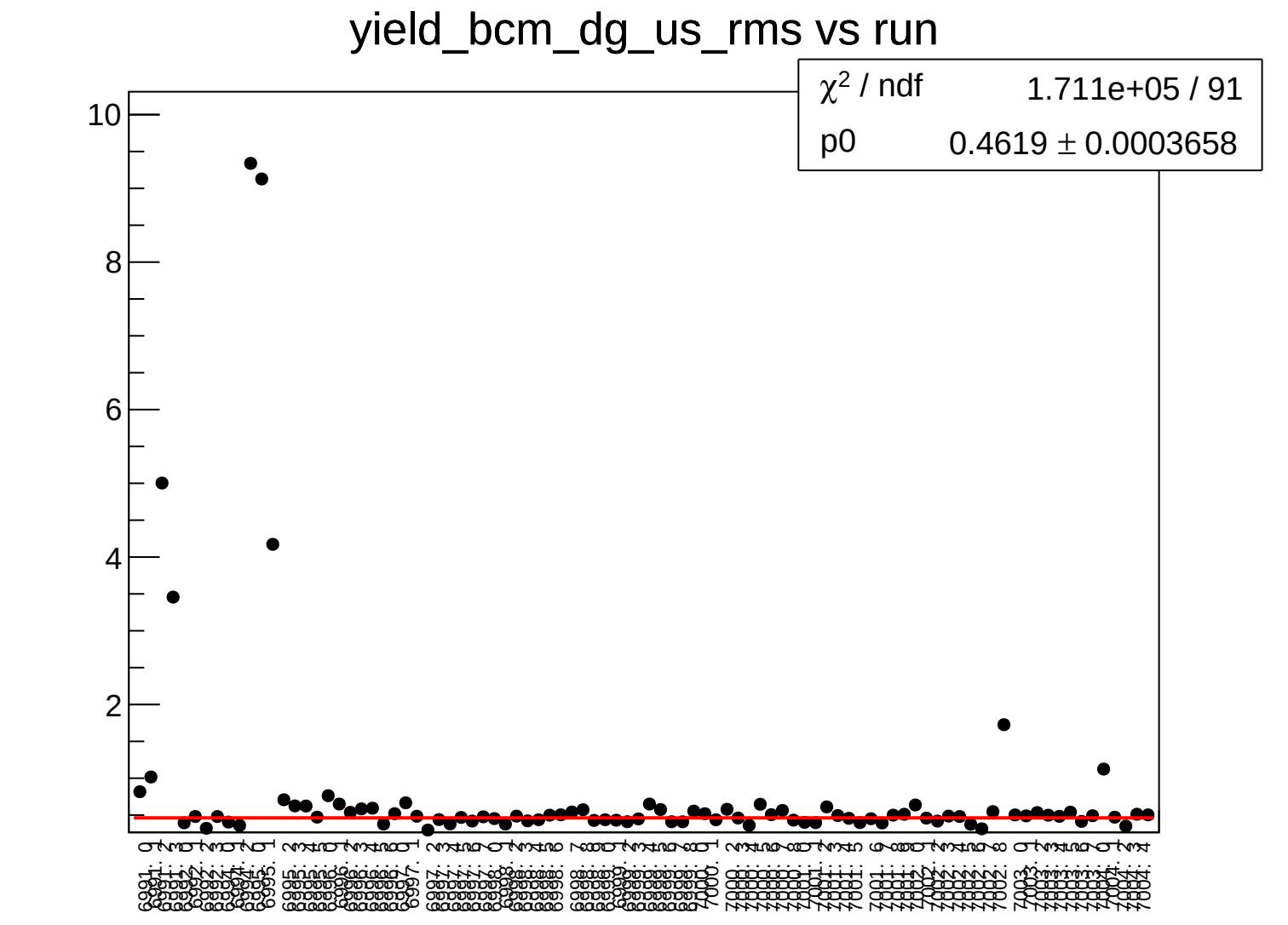

yield_bcm_an_us_mean vs run
χ² / ndf 1.468e+07 / 91
p0 139.4 ± 0.0005138
145
140
135
130
125
120
pull
Entries 92
Mean −395.5
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

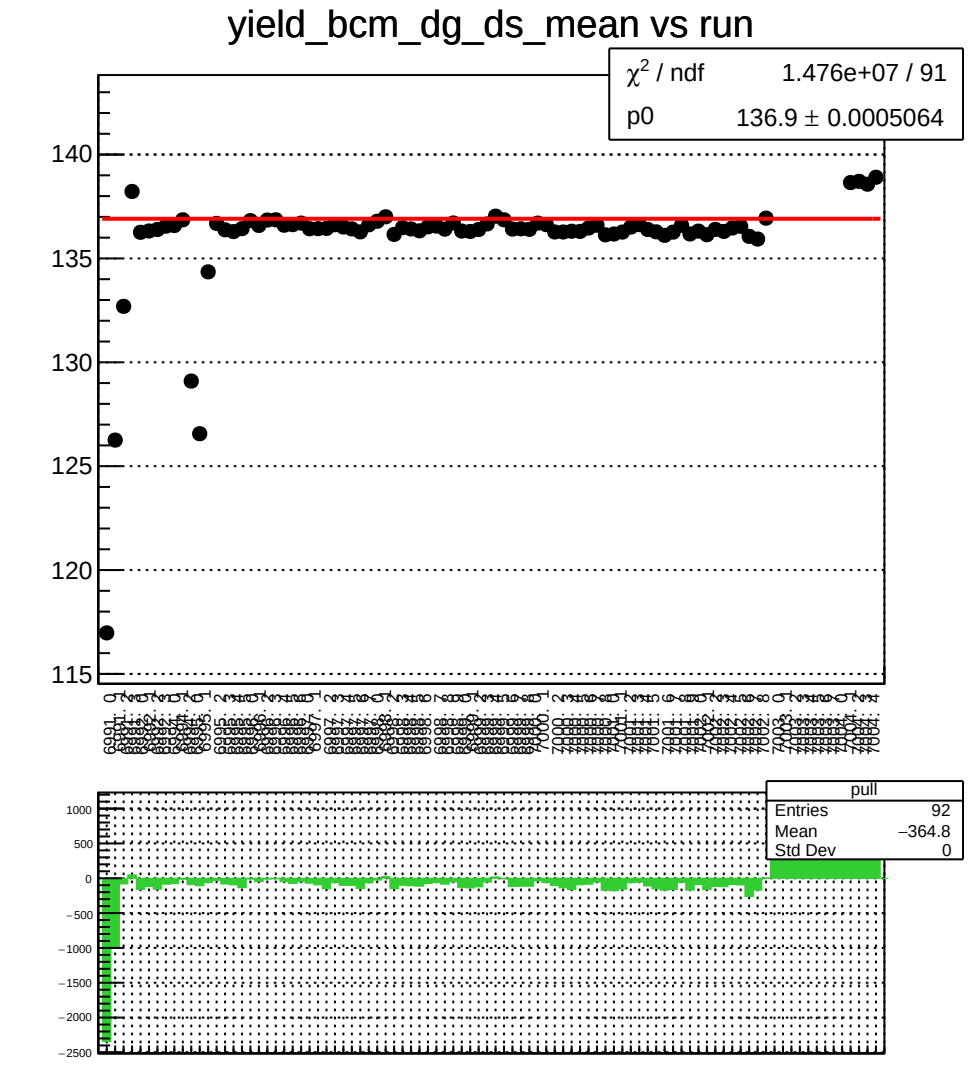

pull1D
Entries 92
Mean 0.6451
Std Dev 5.156
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

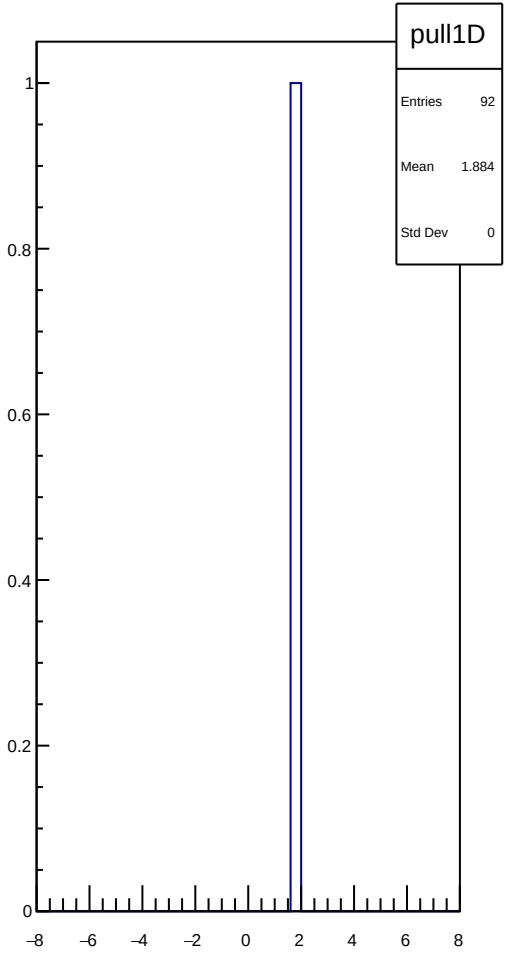

yield_bcm_an_us_rms vs run
χ² / ndf 1.725e+05 / 91
p0 0.4585 ± 0.0003633
10
8
6
4
2

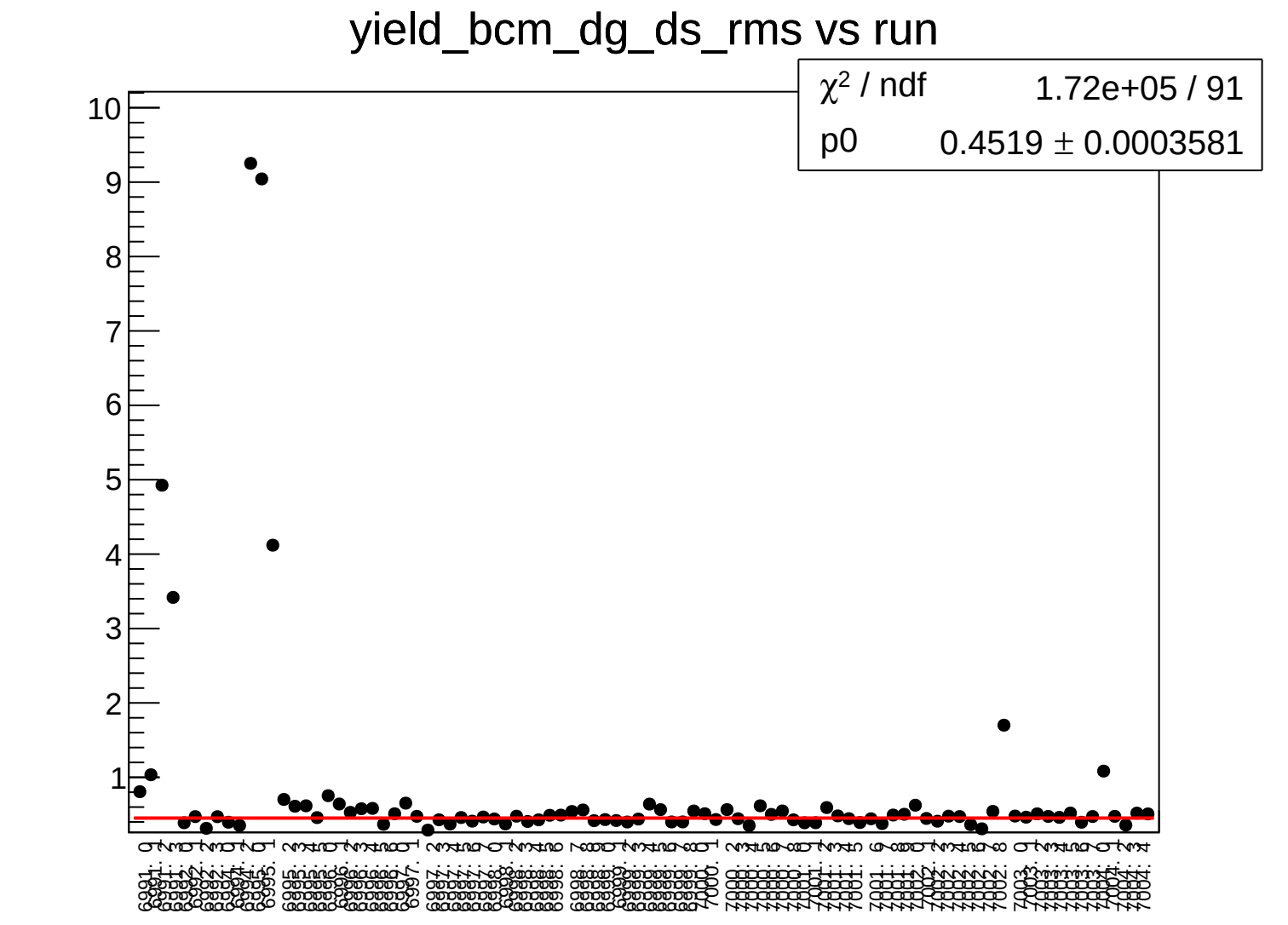

yield_bcm_dg_us_mean vs run
χ² / ndf 1.444e+07 / 91
p0 138.1± 0.0005173
145
140
135
130
125
120
pull
Entries 92
Mean −400.2
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

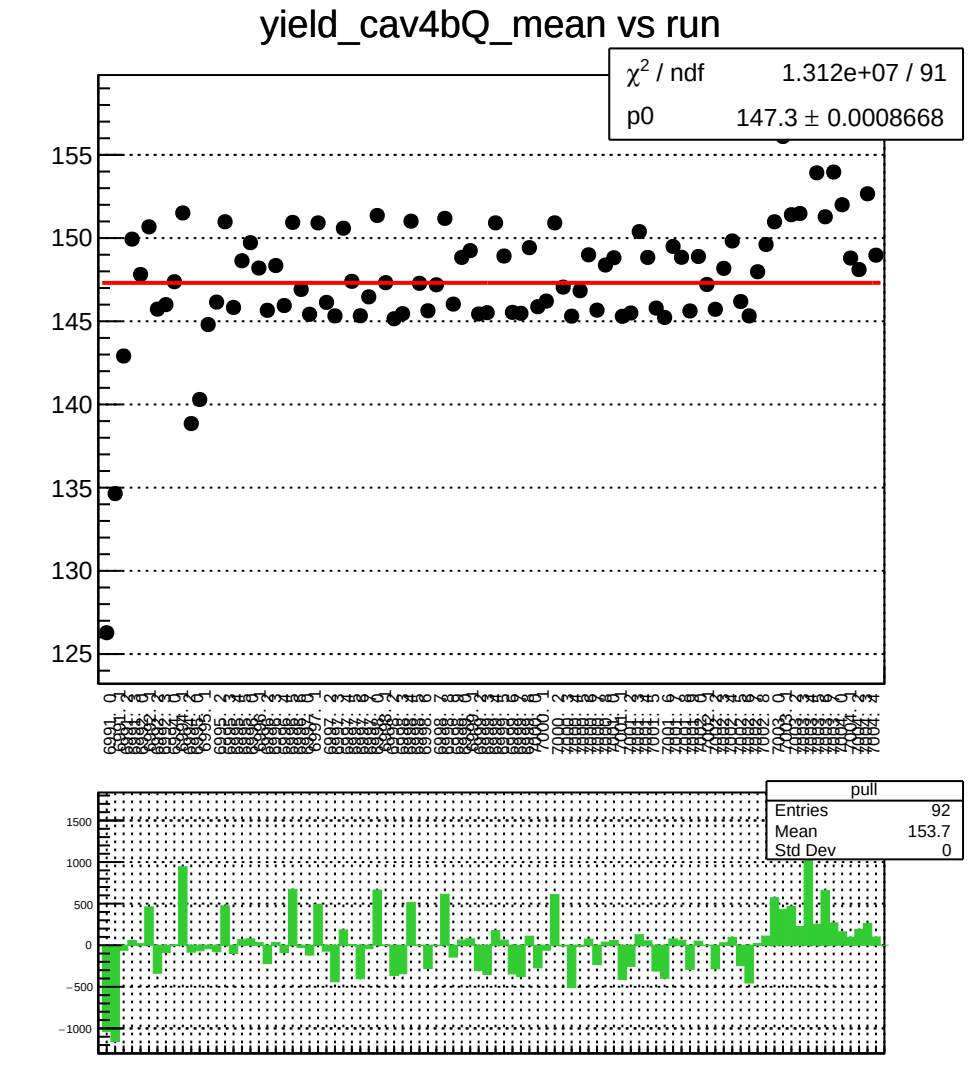

pull1D
Entries 92
Mean −2.538
Std Dev 2.73
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

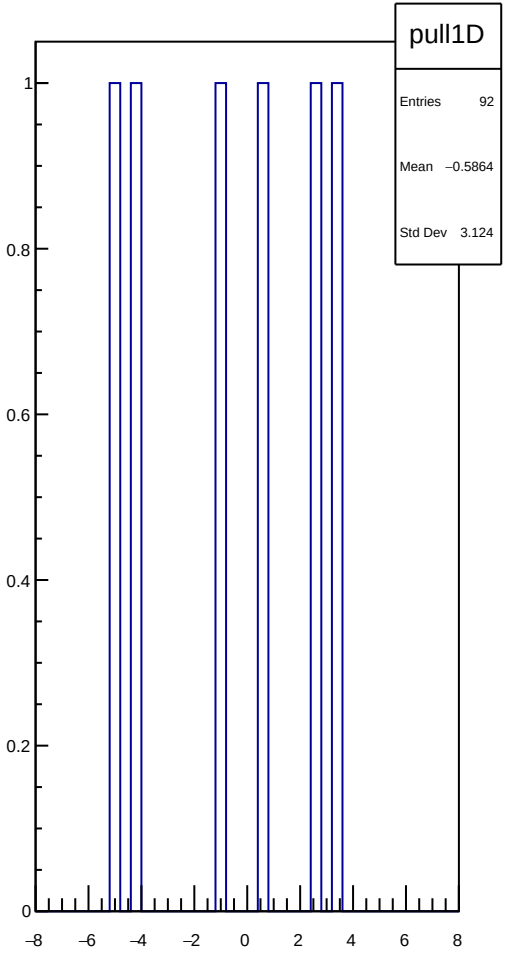

yield_bcm_dg_us_rms vs run
χ² / ndf 1.711e+05 / 91
p0 0.4619 ± 0.0003658
10
8
6
4
2

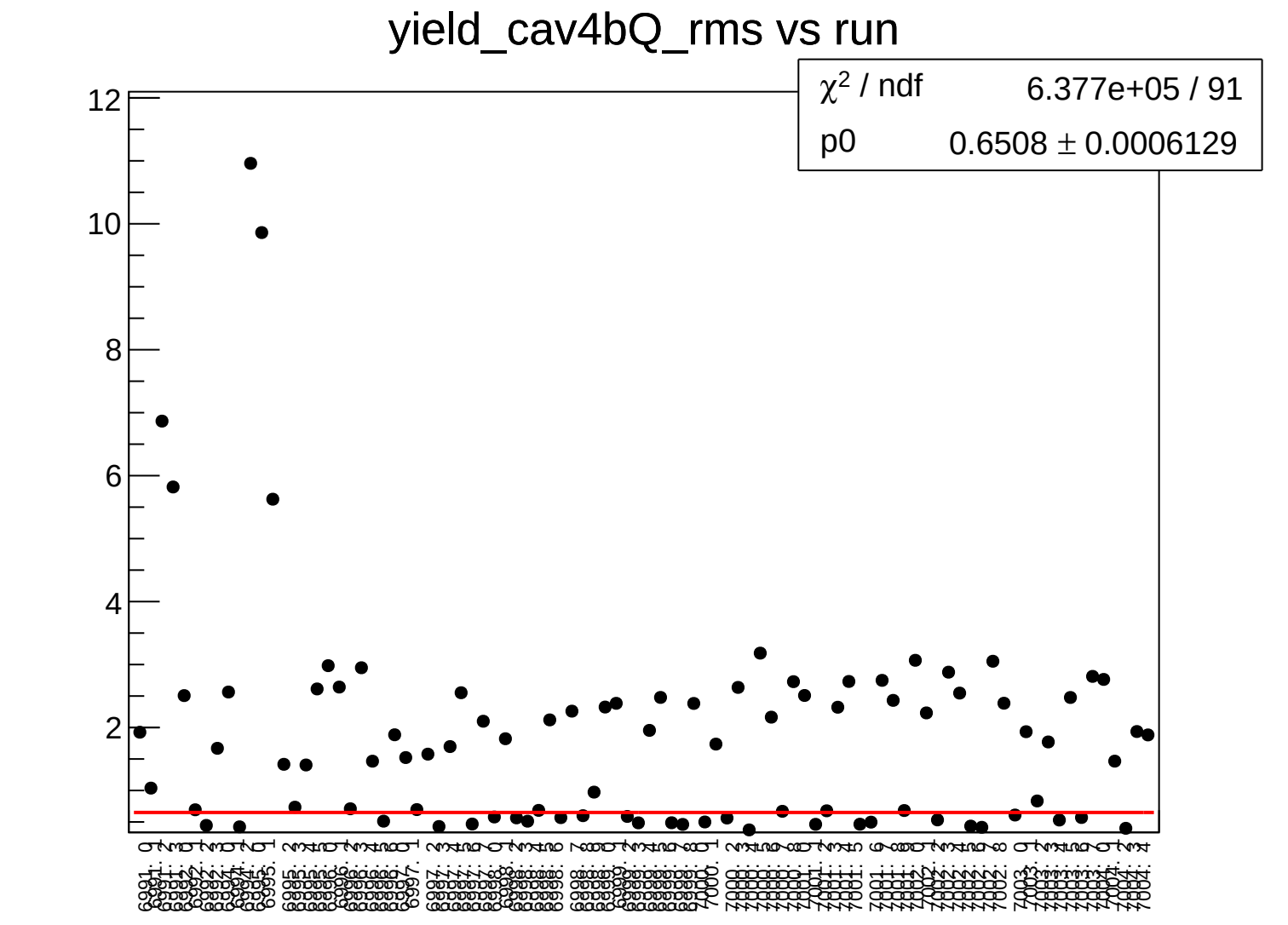

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.476e+07 / 91
p0 136.9 ± 0.0005064
140
135
130
125
120
115
pull
Entries 92
Mean −364.8
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

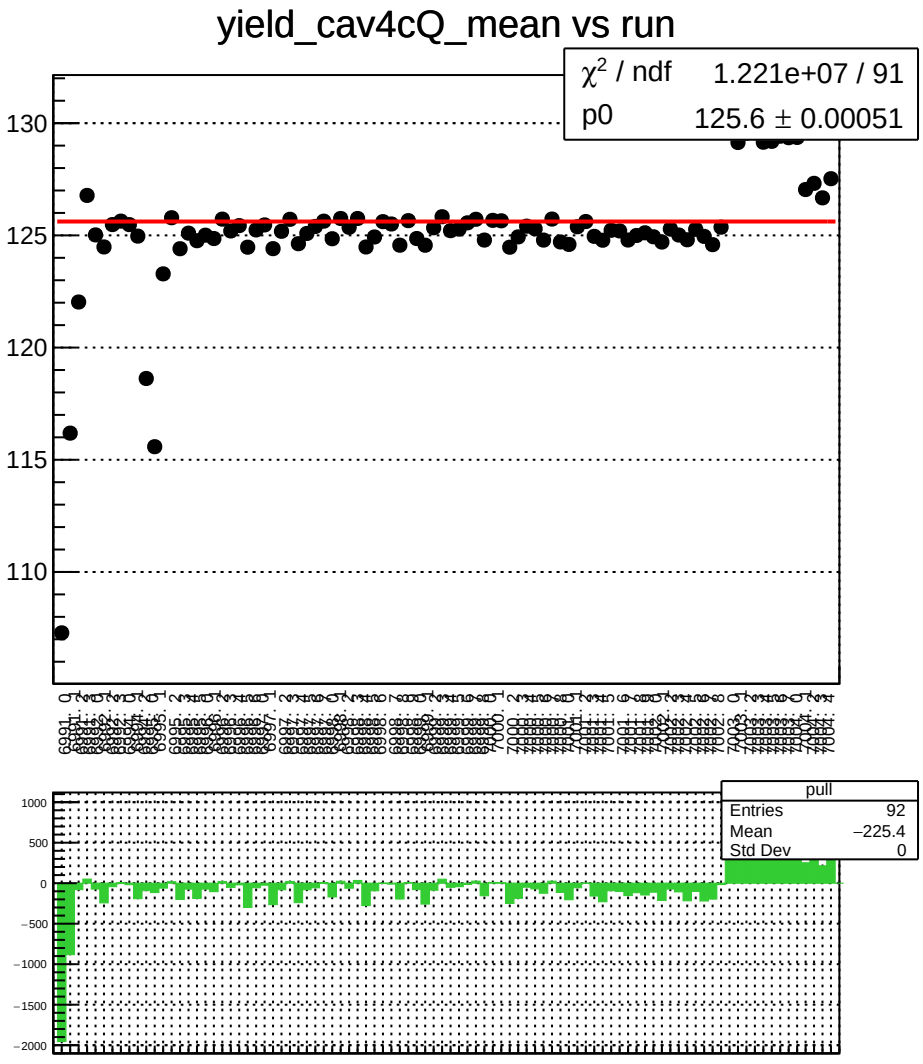

pull1D
Entries 92
Mean 1.884
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

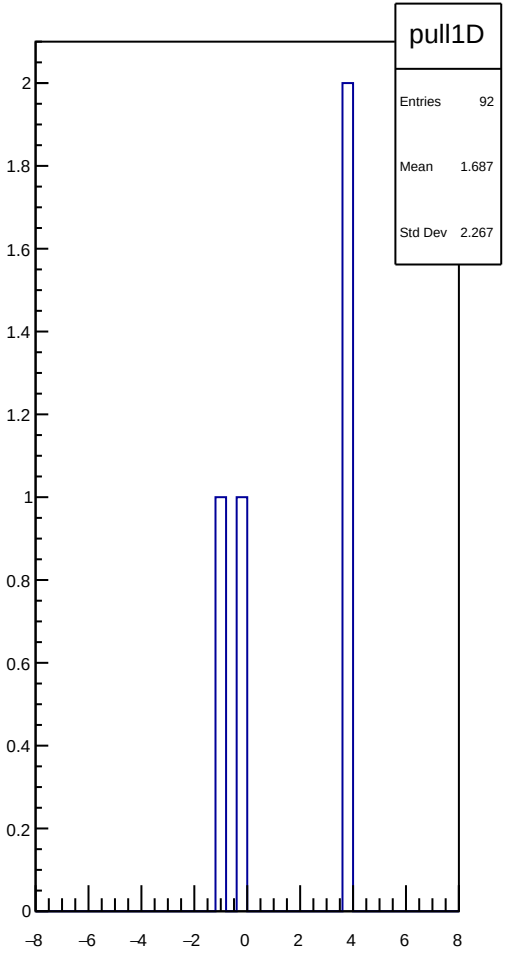

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.72e+05 / 91
p0 0.4519 ± 0.0003581
10
9
8
7
6
5
4
3
2
1

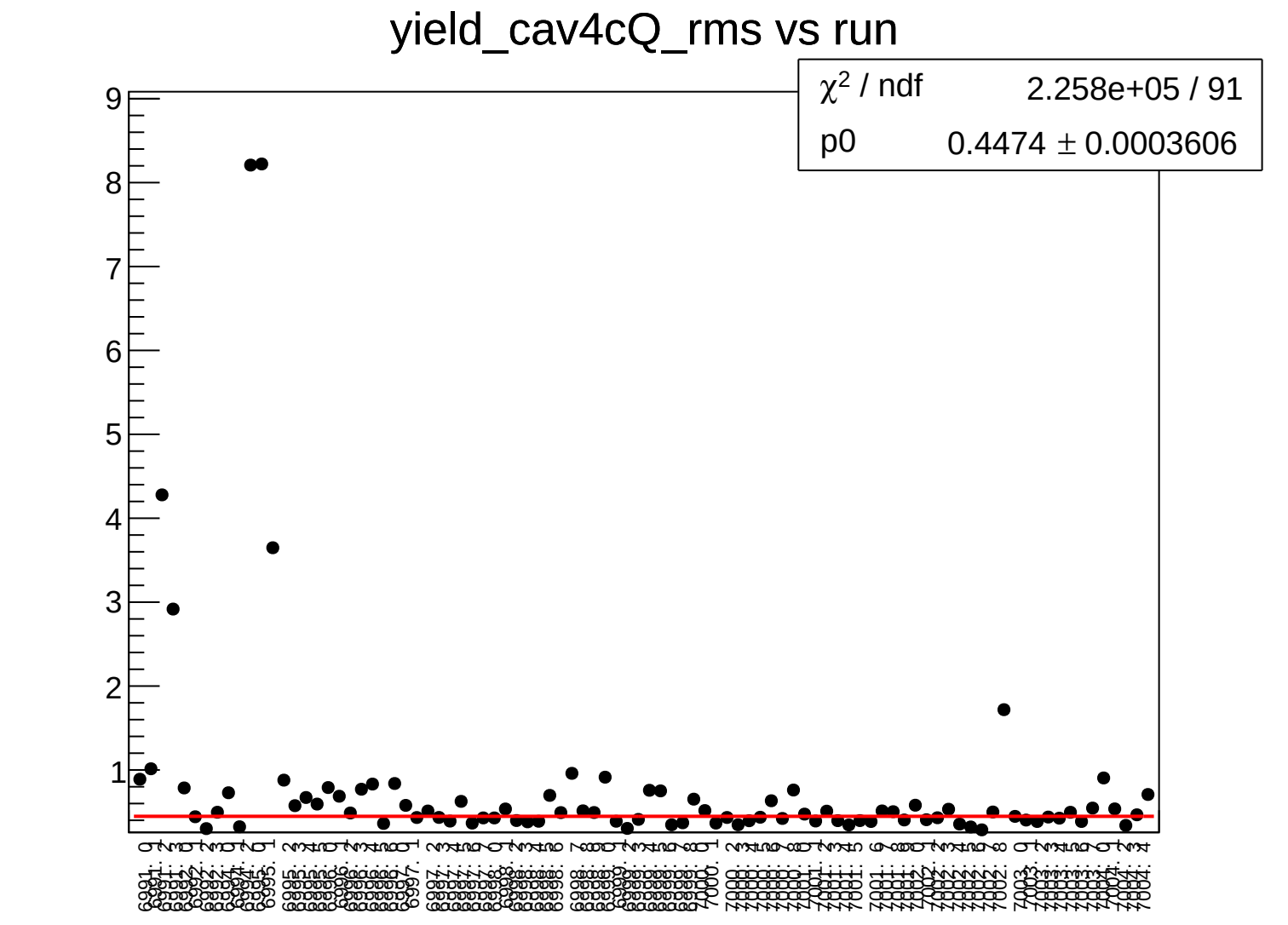

yield_cav4bQ_mean vs run
χ² / ndf 1.312e+07 / 91
p0 147.3 ± 0.0008668
155
150
145
140
135
130
125
pull
Entries 92
Mean 153.7
Std Dev 0
1500
1000
500
0
−500
−1000

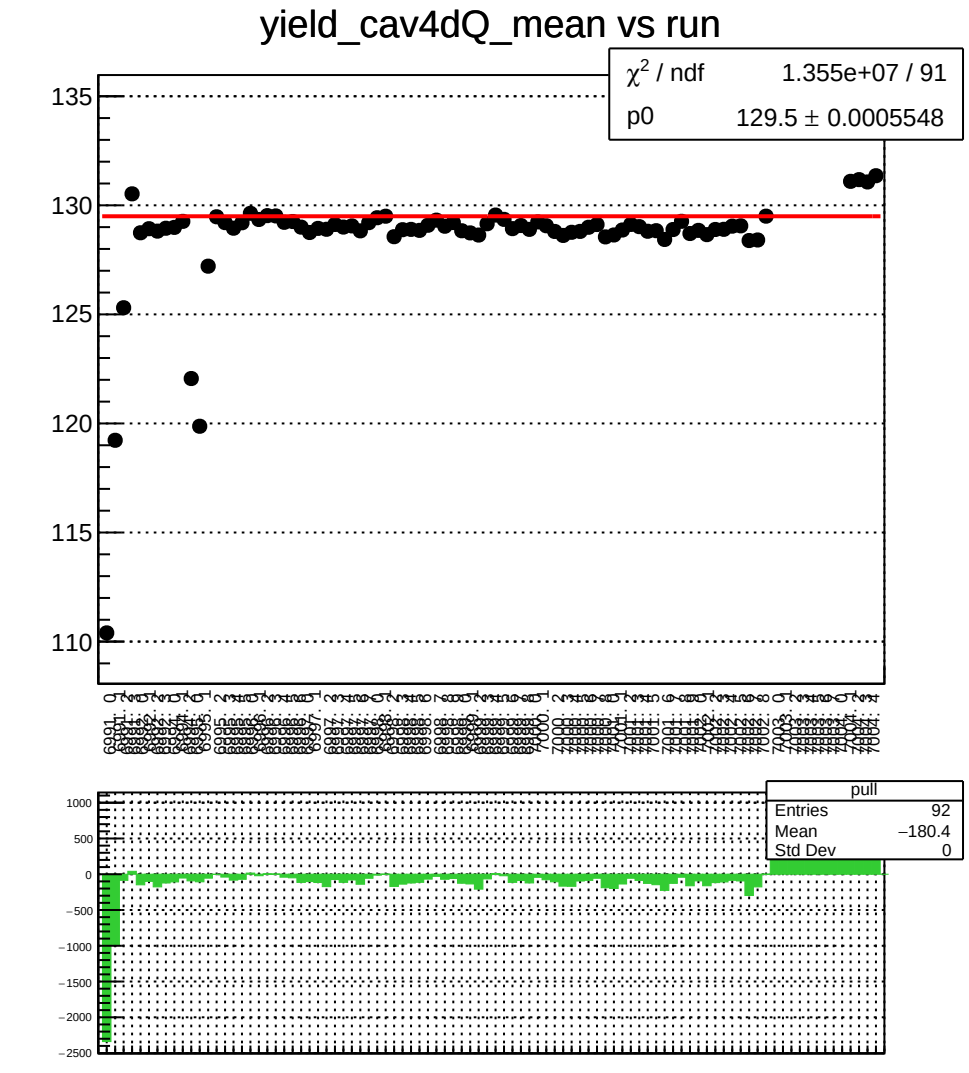

pull1D
Entries 92
Mean −0.5864
Std Dev 3.124
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

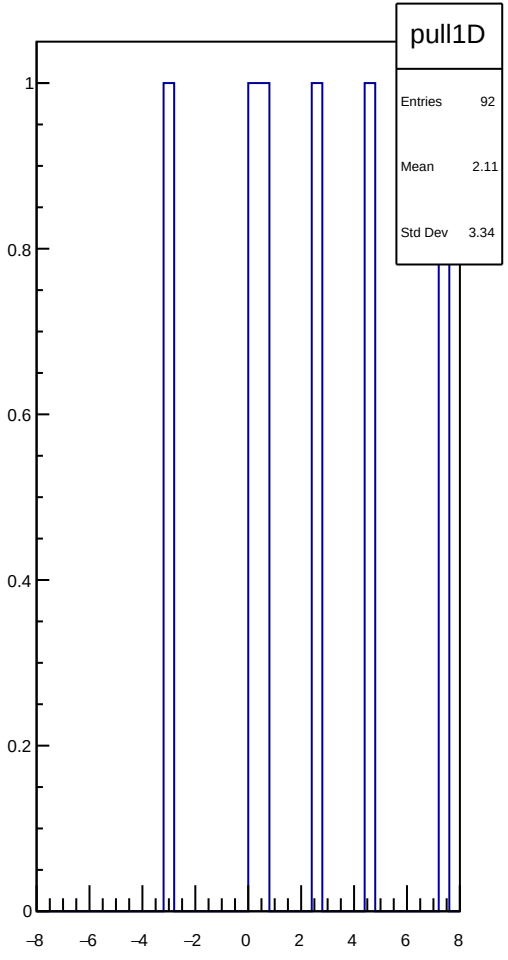

yield_cav4bQ_rms vs run
χ² / ndf 6.377e+05 / 91
p0 0.6508 ± 0.0006129
12
10
8
6
4
2

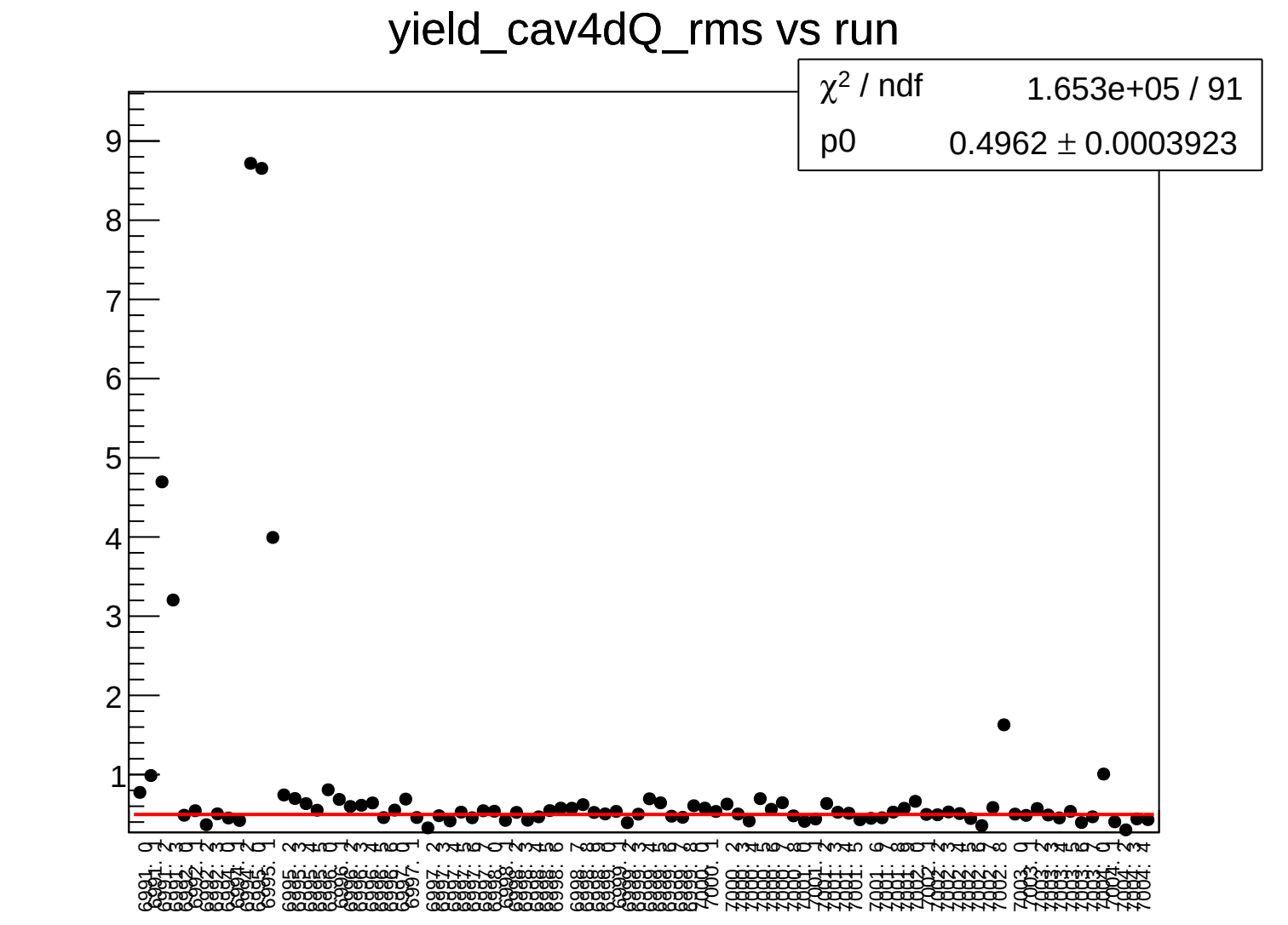

yield_cav4cQ_mean vs run
χ² / ndf 1.221e+07 / 91
p0 125.6 ± 0.00051
130
125
120
115
110
pull
Entries 92
Mean −225.4
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

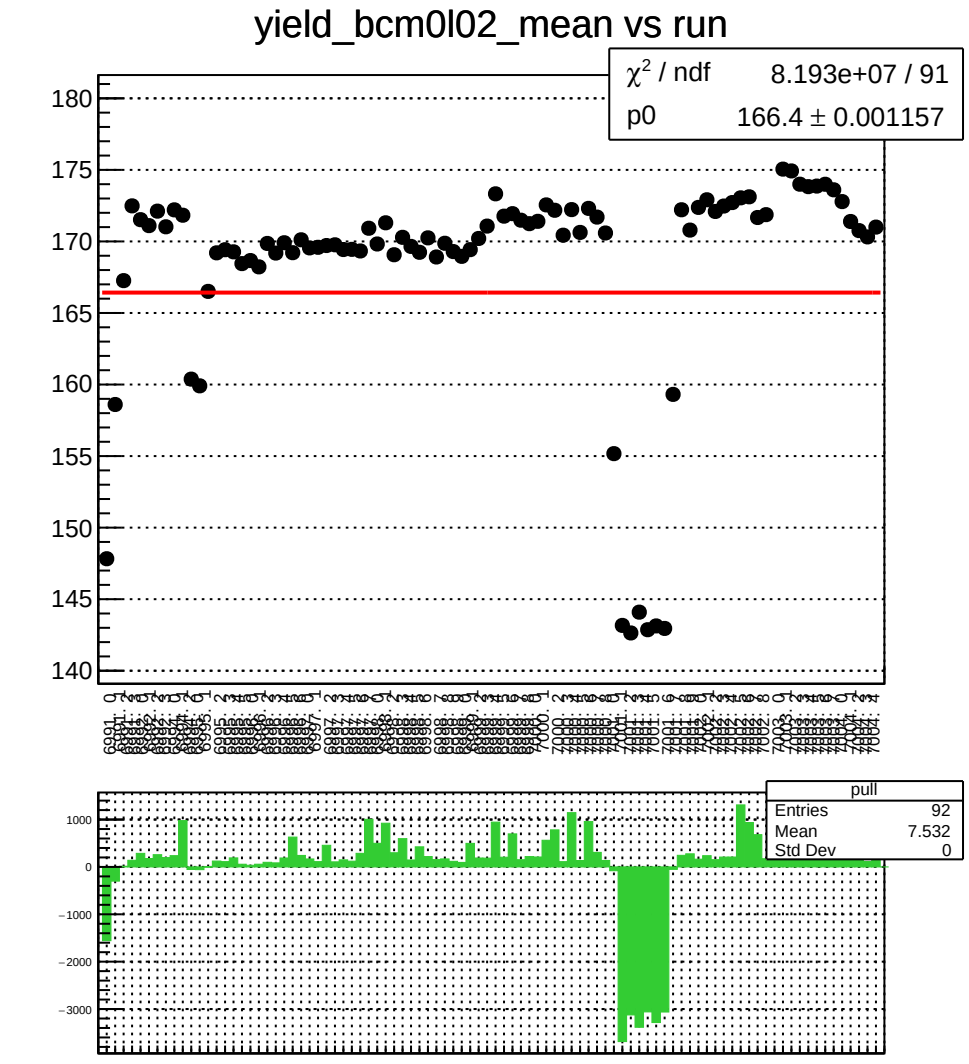

pull1D
Entries 92
Mean 1.687
Std Dev 2.267
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

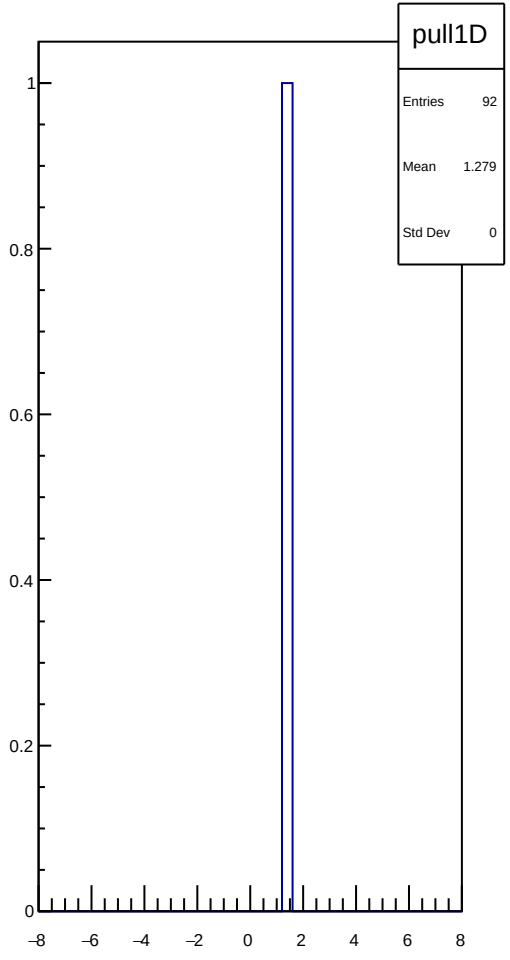

yield_cav4cQ_rms vs run
χ² / ndf 2.258e+05 / 91
p0 0.4474 ± 0.0003606
9
8
7
6
5
4
3
2
1


yield_cav4dQ_mean vs run
χ² / ndf 1.355e+07 / 91
p0 129.5 ± 0.0005548
135
130
125
120
115
110
pull
Entries 92
Mean −180.4
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

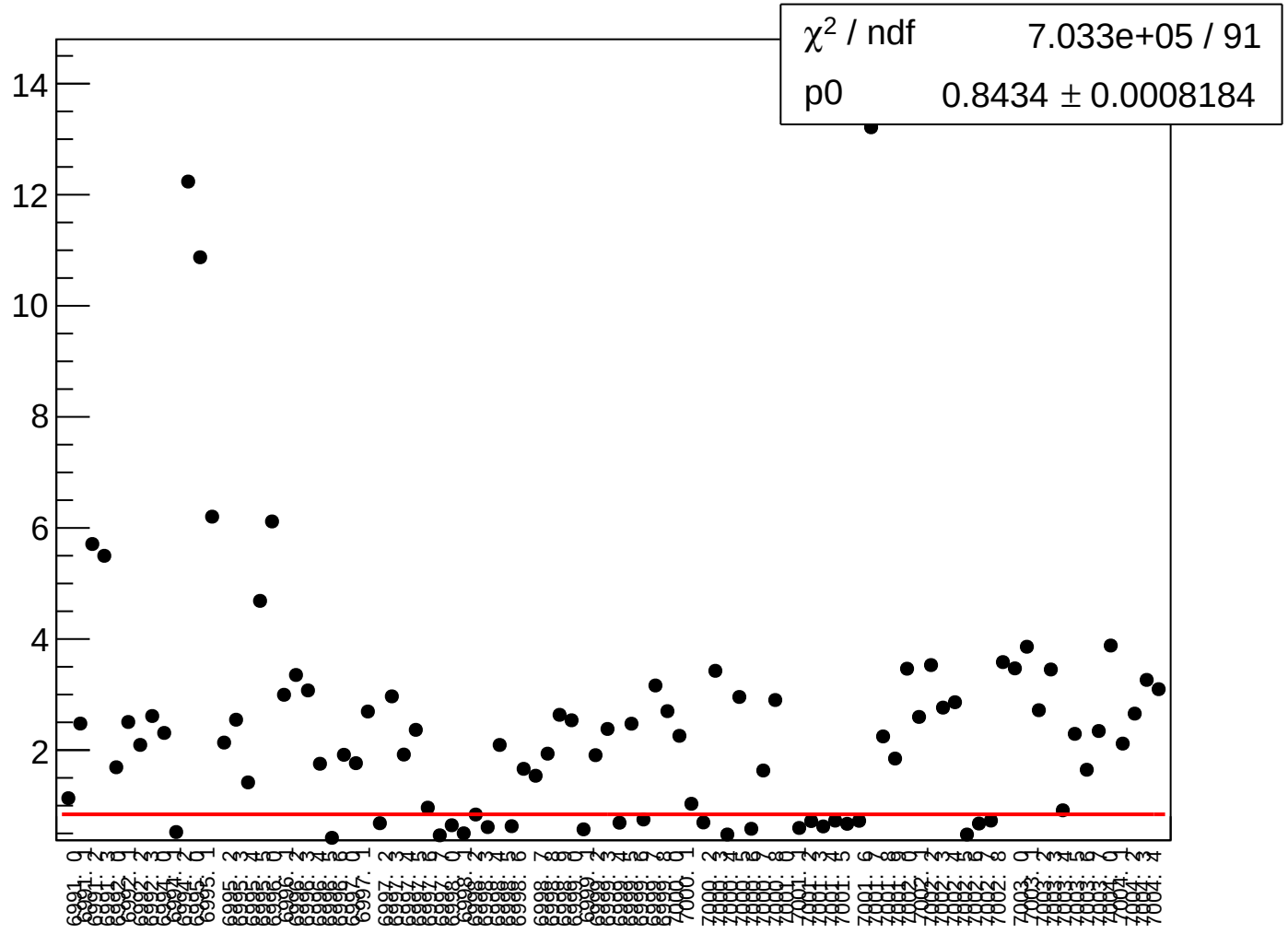

pull1D
Entries 92
Mean 2.11
Std Dev 3.34
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

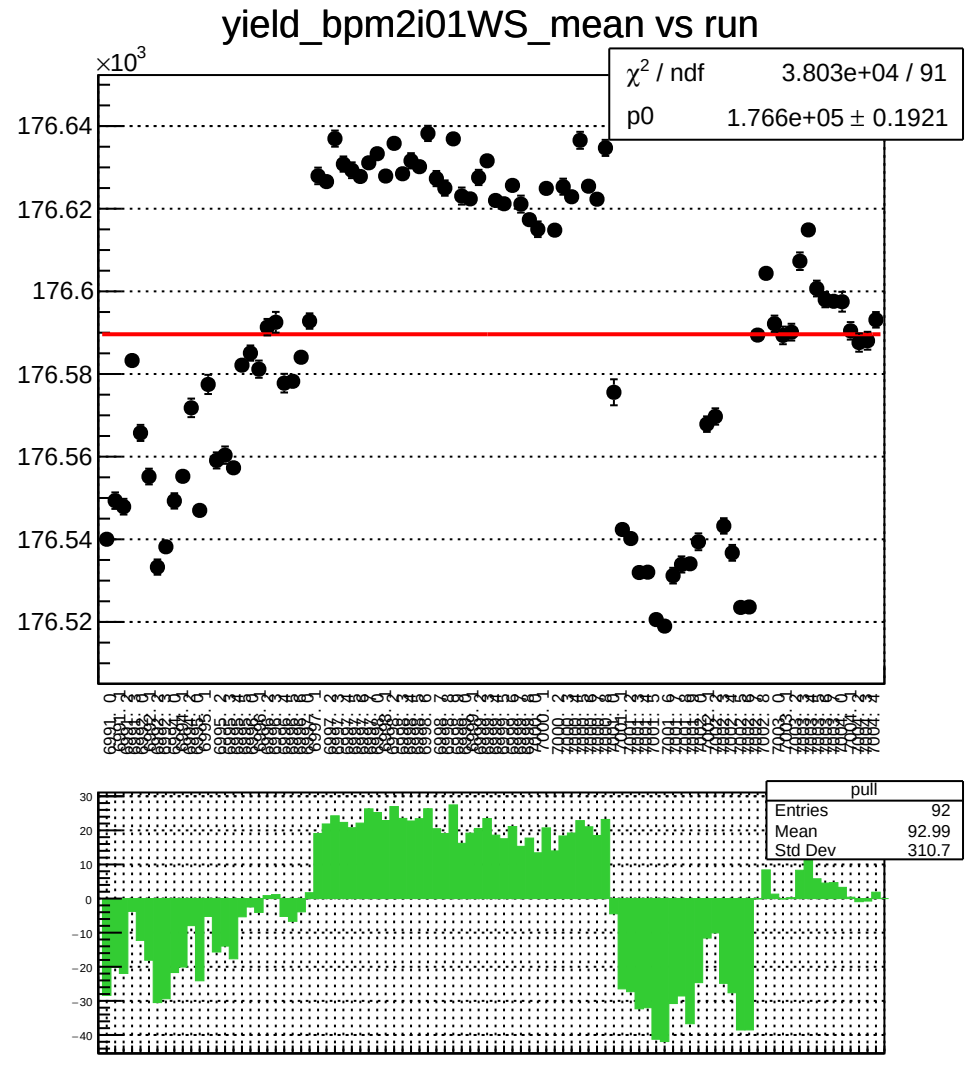

yield_cav4dQ_rms vs run
χ² / ndf 1.653e+05 / 91
p0 0.4962 ± 0.0003923
9
8
7
6
5
4
3
2
1

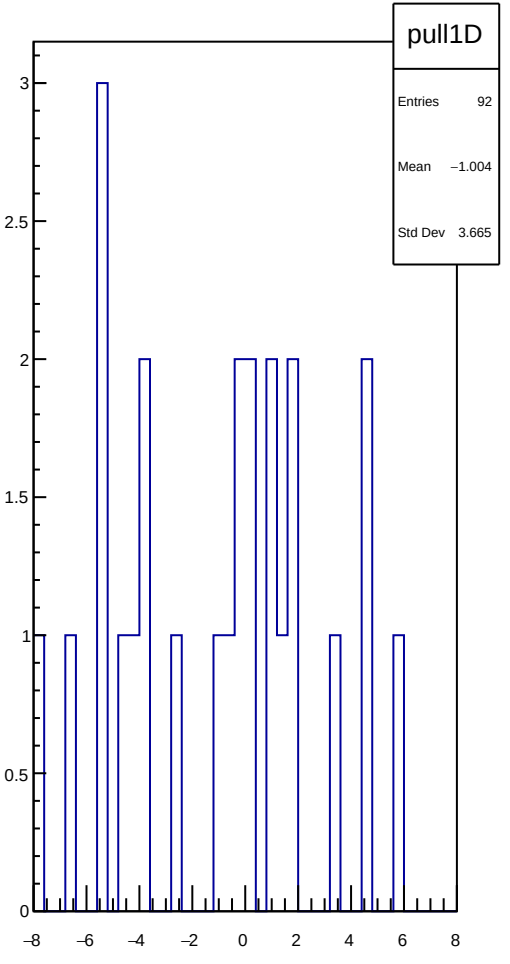

yield_bcm0l02_mean vs run
χ² / ndf 8.193e+07 / 91
p0 166.4 ± 0.001157
pull
Entries 92
Mean 7.532
Std Dev 0

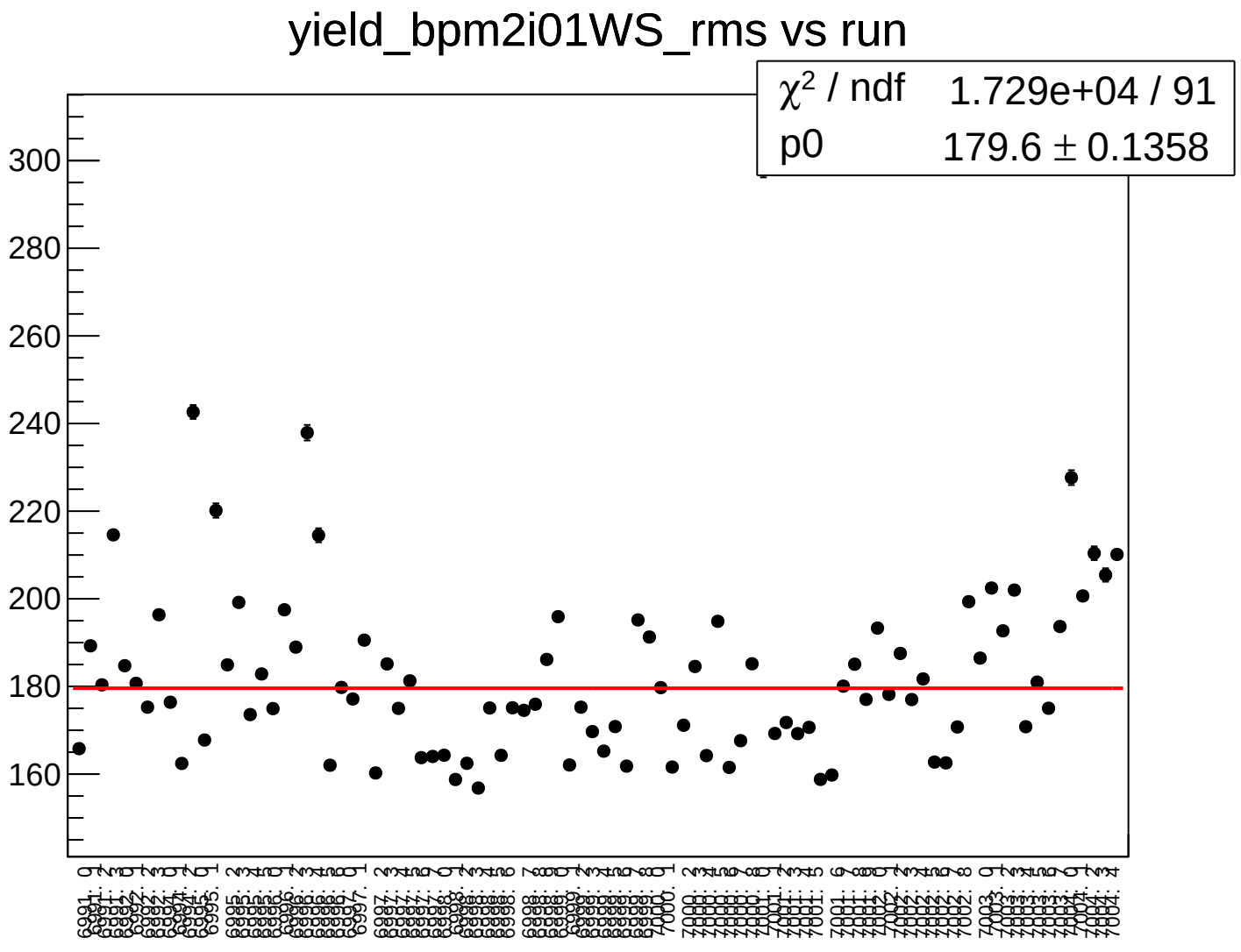

pull1D
Entries 92
Mean 1.279
Std Dev 0

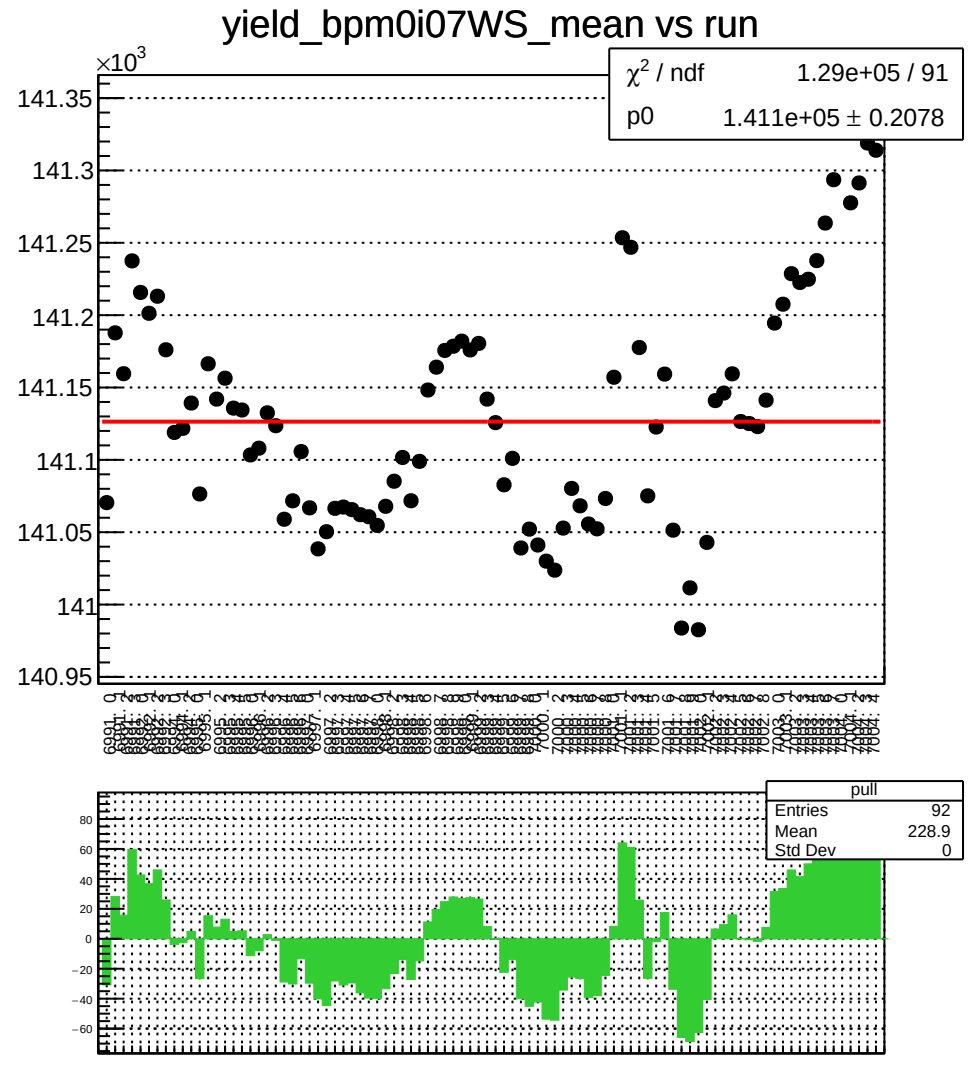
yield_bcm0l02_rms vs run

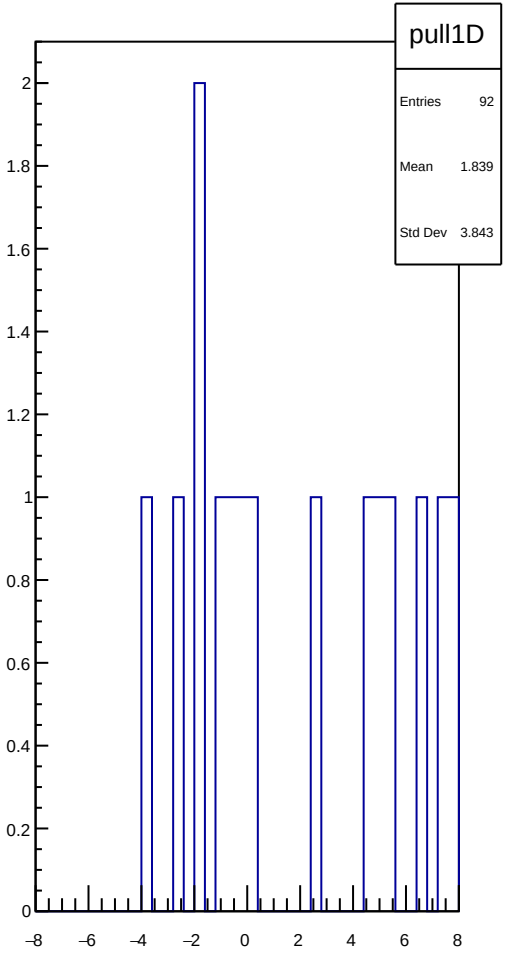


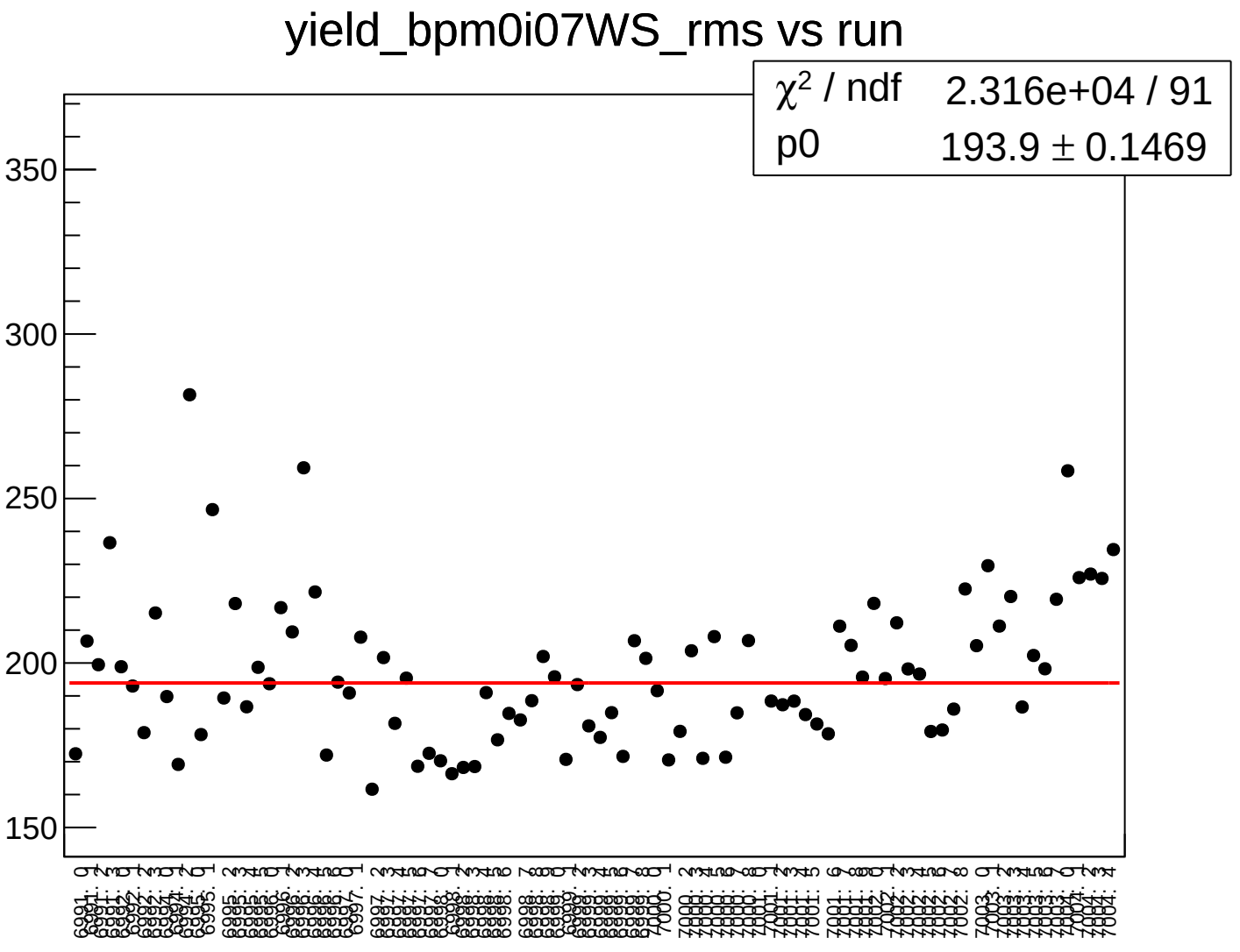

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.803e+04 / 91
p0 1.766e+05 ± 0.1921
176.64
176.62
176.6
176.58
176.56
176.54
176.52
pull
Entries 92
Mean 92.99
Std Dev 310.7
30
20
10
0
−10
−20
−30
−40

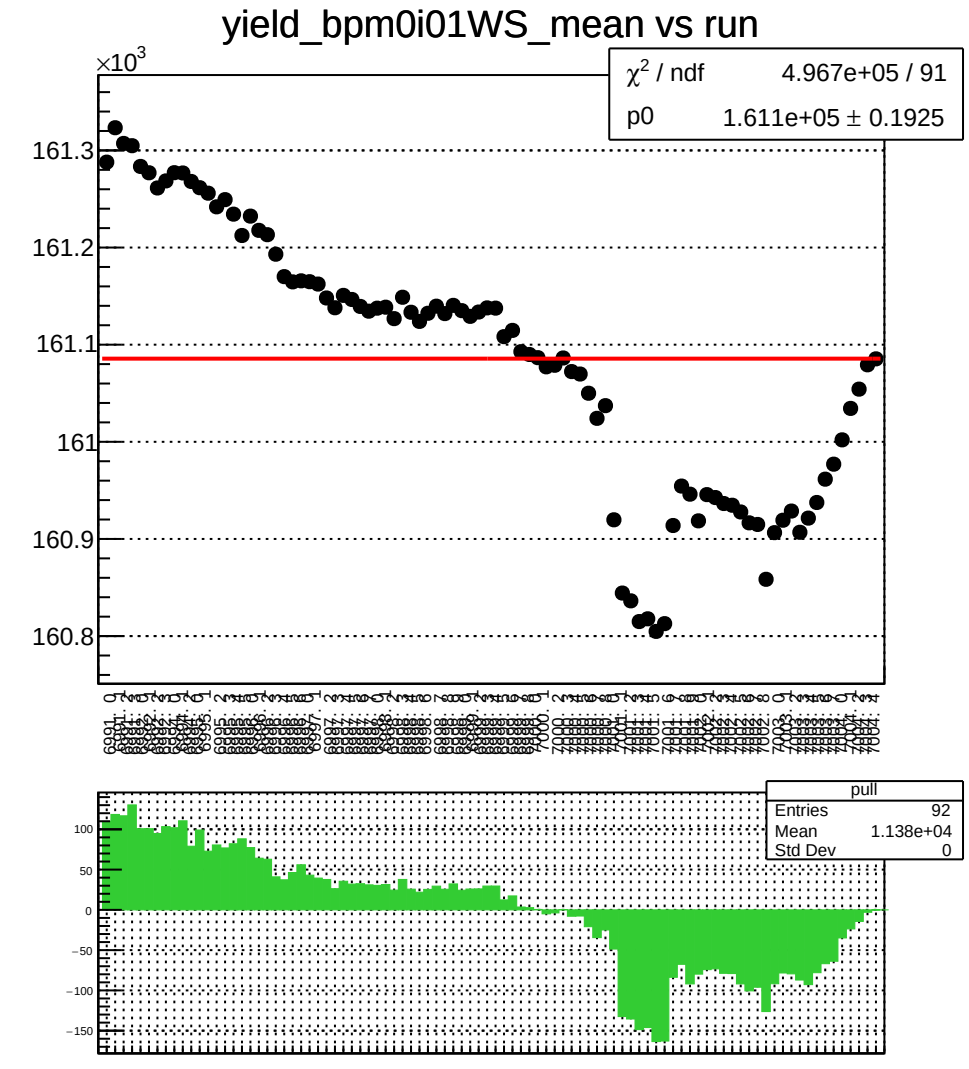

pull1D
Entries 92
Mean −1.004
Std Dev 3.665
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

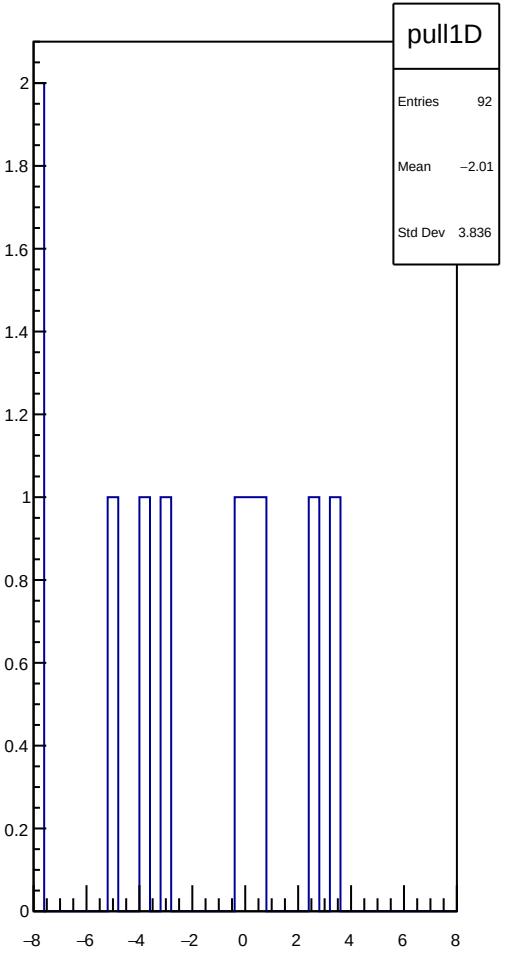

yield_bpm2i01WS_rms vs run
χ² / ndf 1.729e+04 / 91
p0 179.6 ± 0.1358
300
280
260
240
220
200
180
160

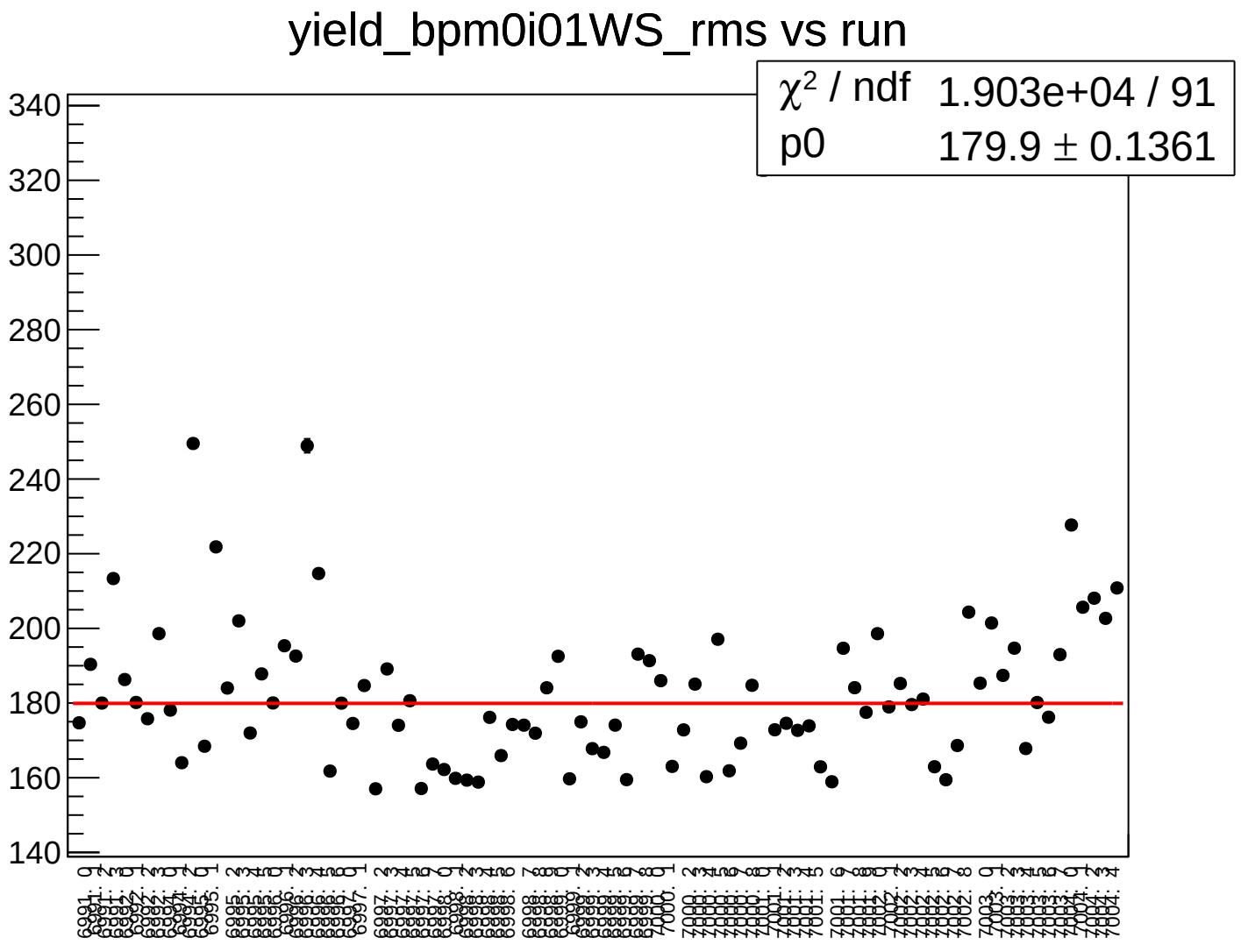

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.29e+05 / 91
p0 1.411e+05 ± 0.2078
141.35
141.3
141.25
141.2
141.15
141.1
141.05
141
140.95
pull
Entries 92
Mean 228.9
Std Dev 0
80
60
40
20
0
−20
−40
−60

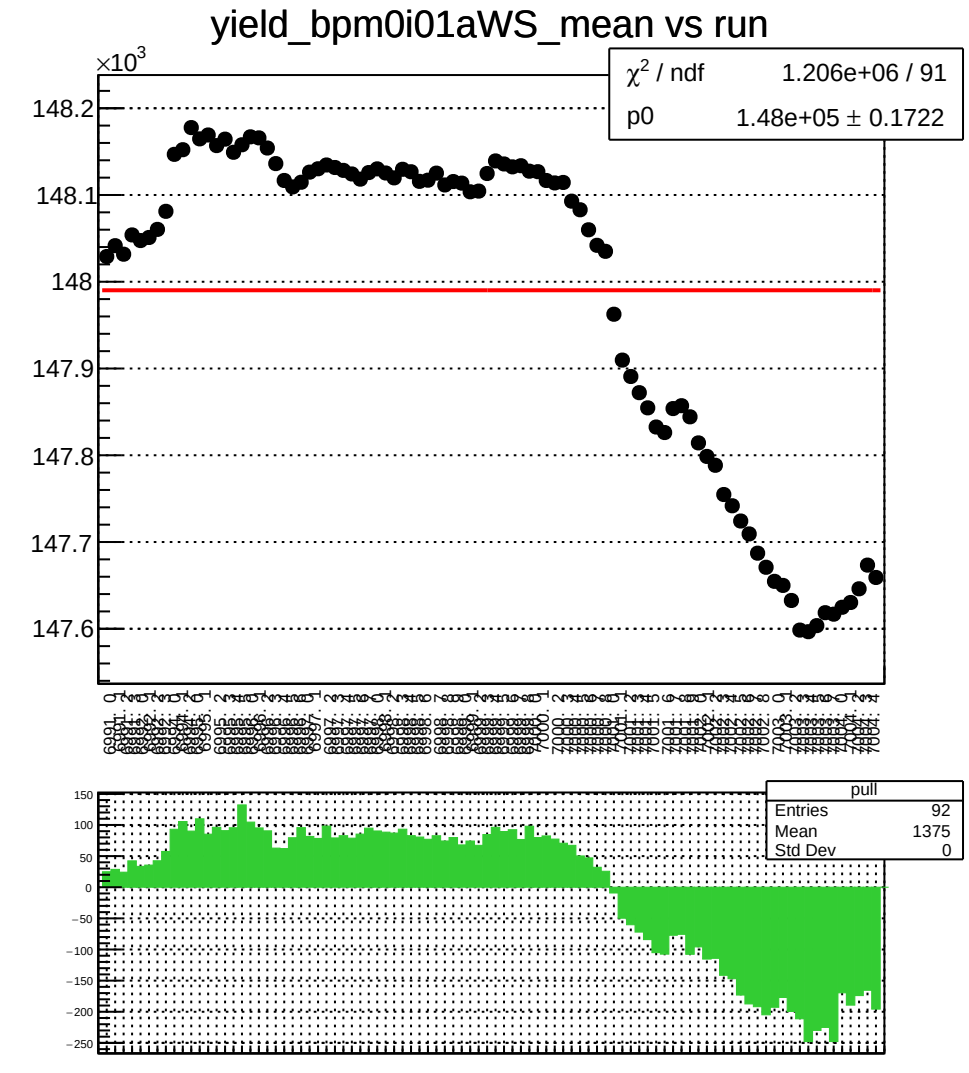

pull1D
Entries 92
Mean 1.839
Std Dev 3.843
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

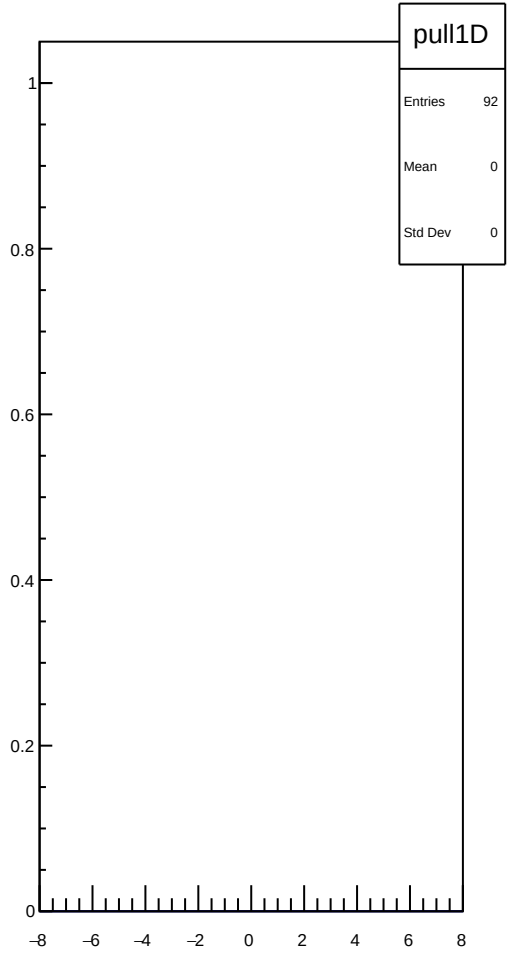

yield_bpm0i07WS_rms vs run
χ² / ndf 2.316e+04 / 91
p0 193.9 ± 0.1469
350
300
250
200
150

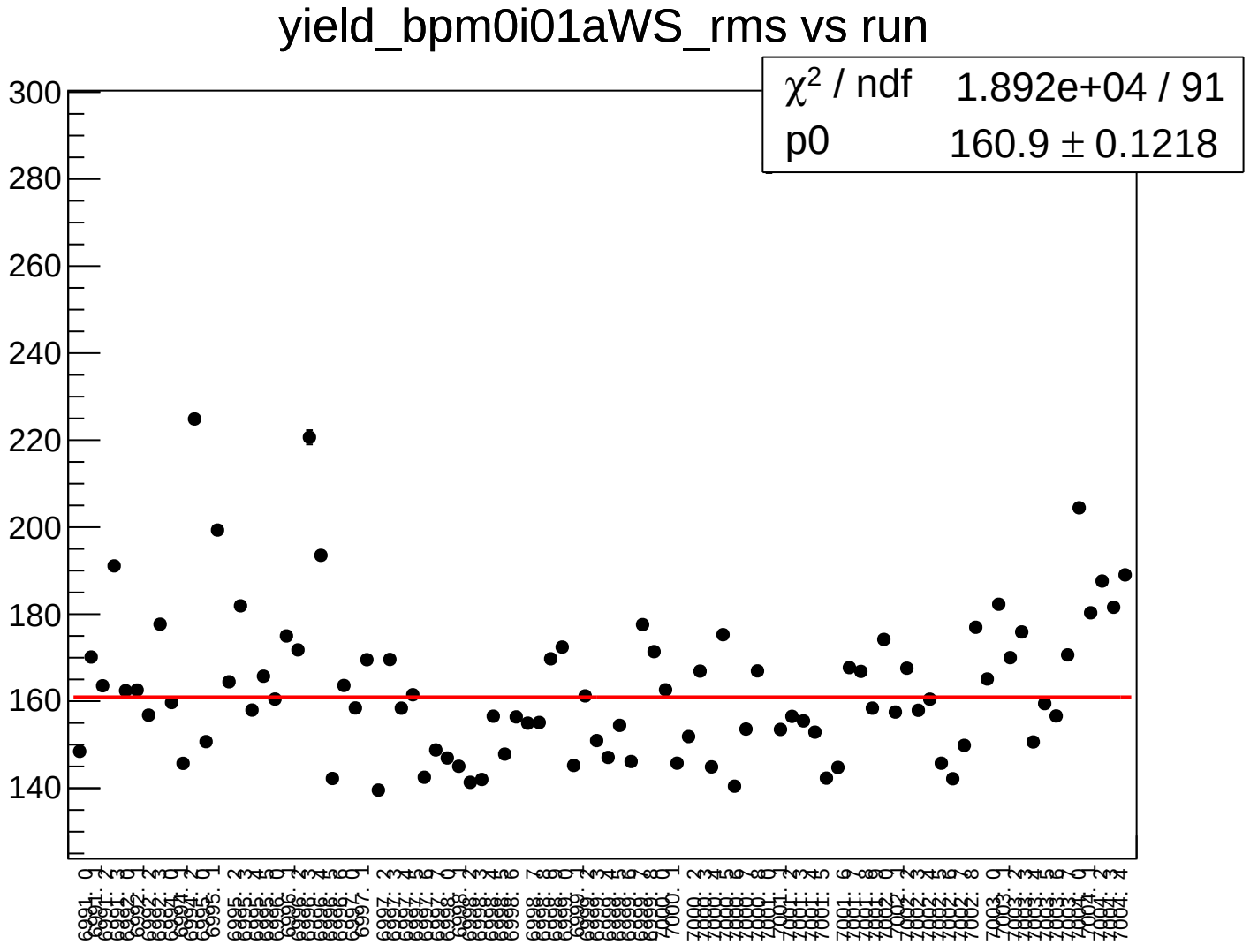

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 4.967e+05 / 91
p0 1.611e+05 ± 0.1925
161.3
161.2
161.1
161
160.9
160.8
pull
Entries 92
Mean 1.138e+04
Std Dev 0
100
50
0
−50
−100
−150

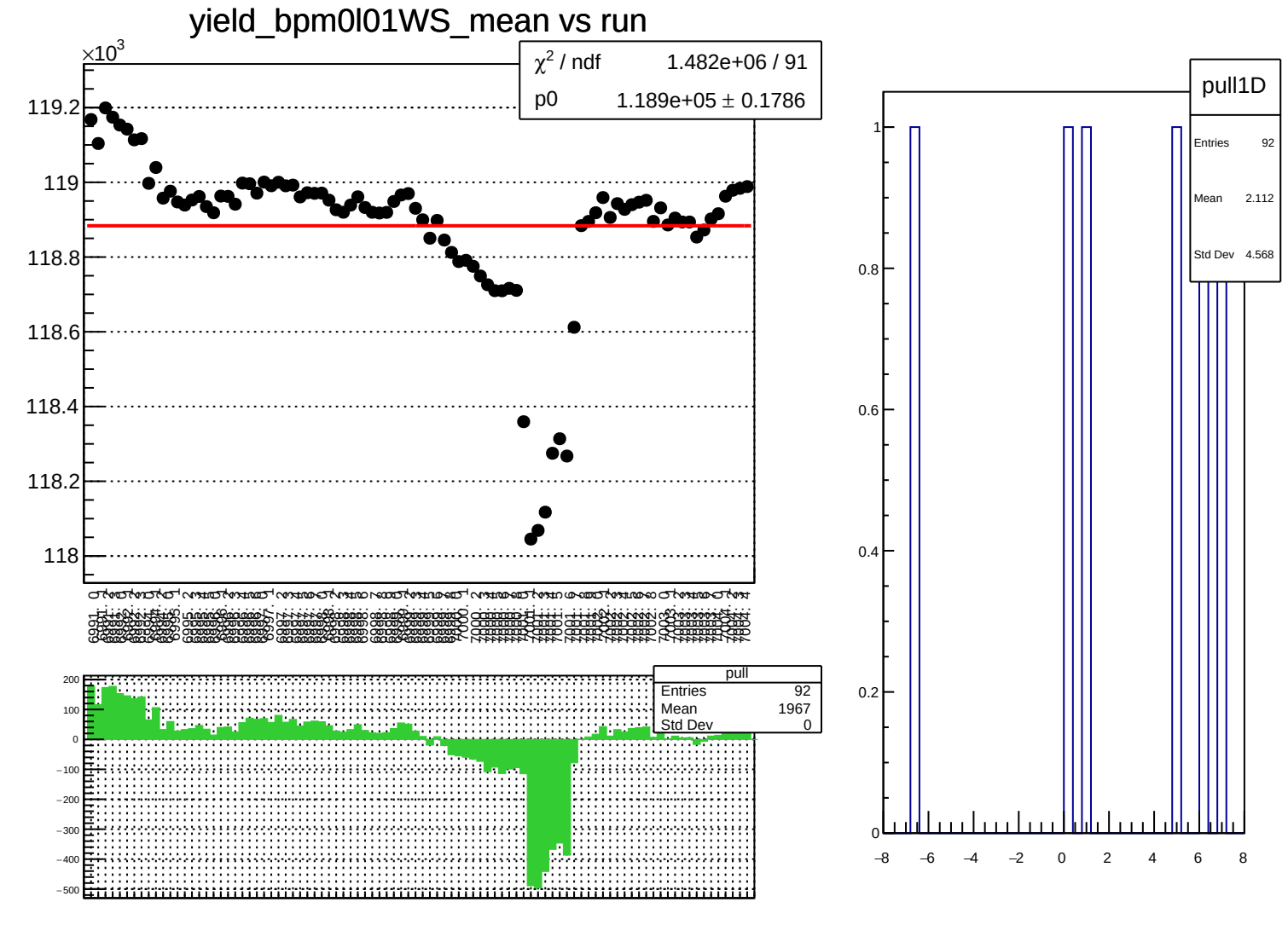

pull1D
Entries 92
Mean −2.01
Std Dev 3.836
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

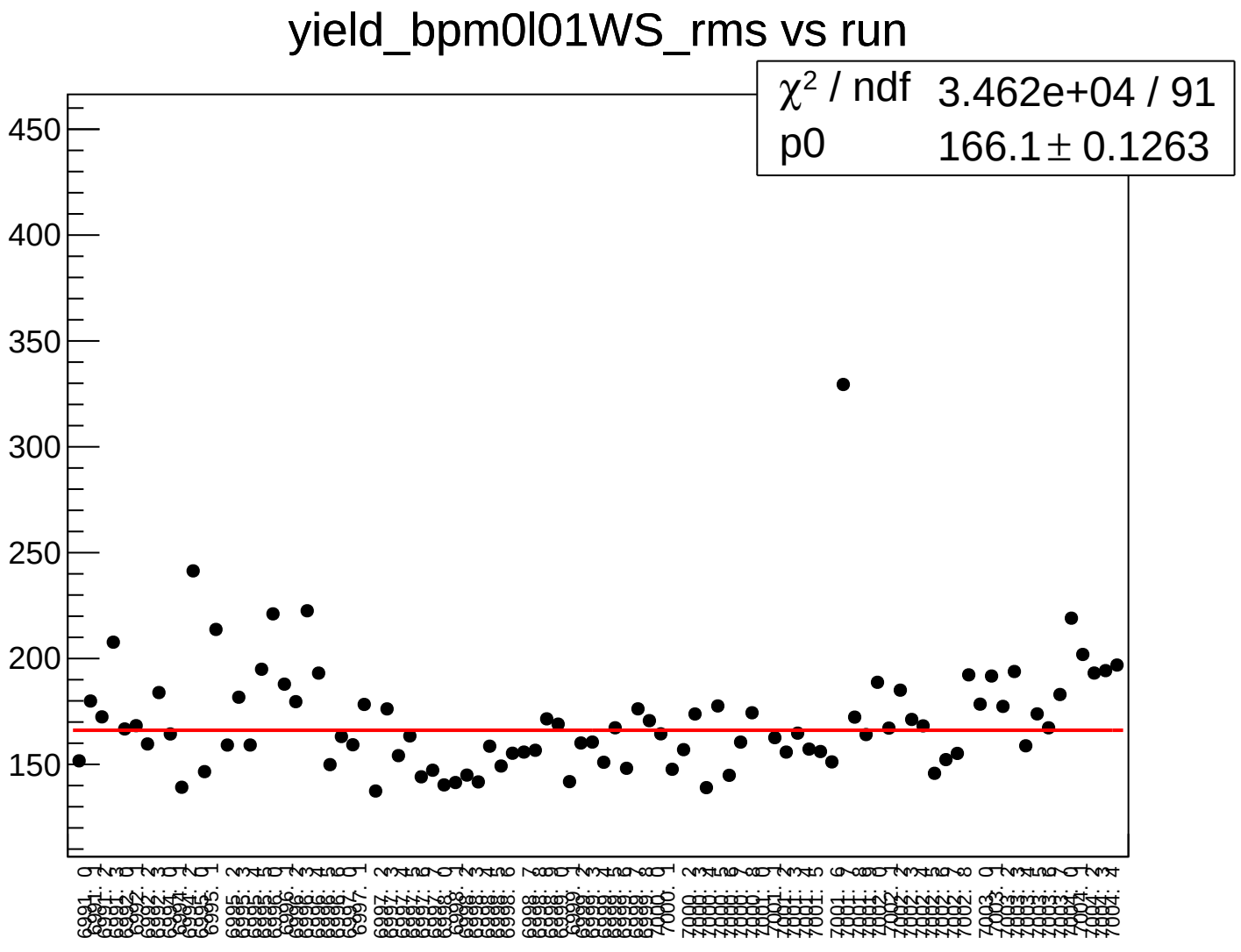

yield_bpm0i01WS_rms vs run
χ² / ndf 1.903e+04 / 91
p0 179.9 ± 0.1361
340
320
300
280
260
240
220
200
180
160
140

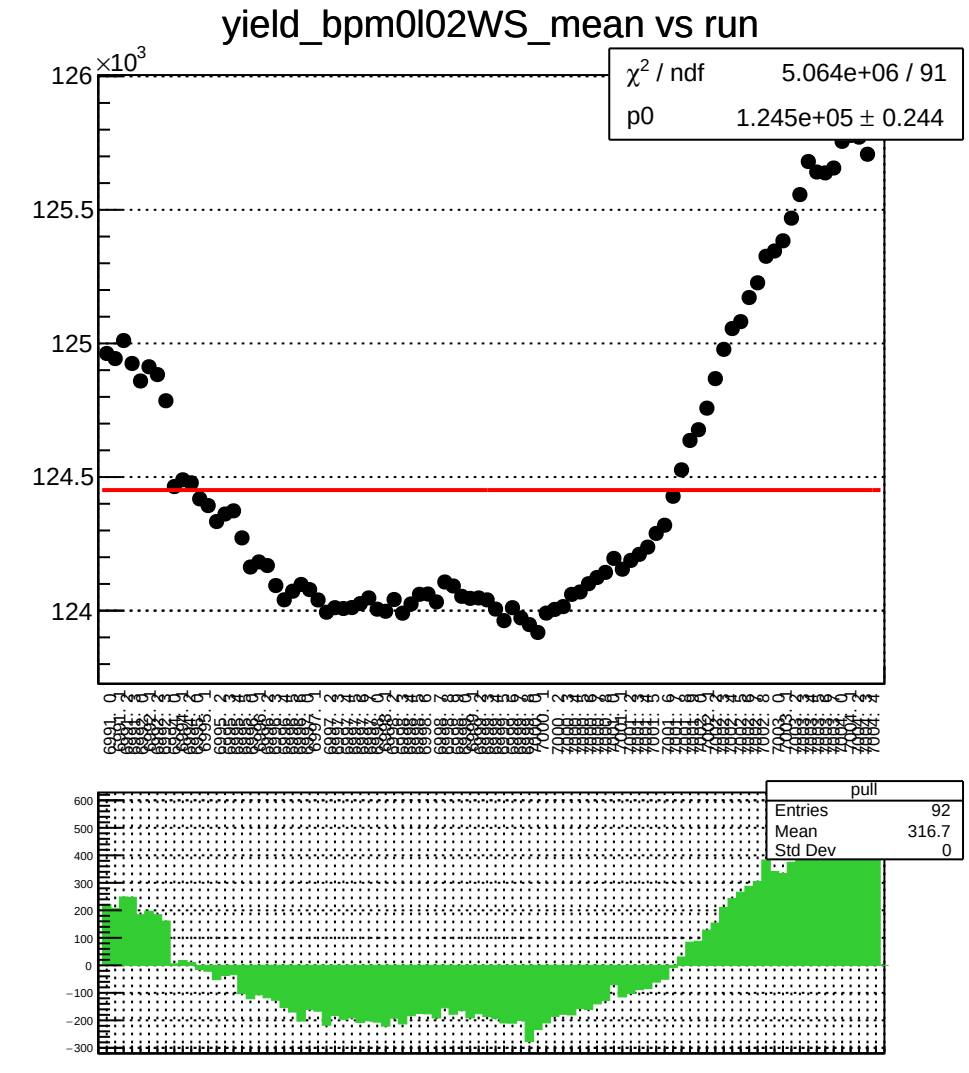

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.206e+06 / 91
p0 1.48e+05 ± 0.1722
148.2
148.1
148
147.9
147.8
147.7
147.6
pull
Entries 92
Mean 1375
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

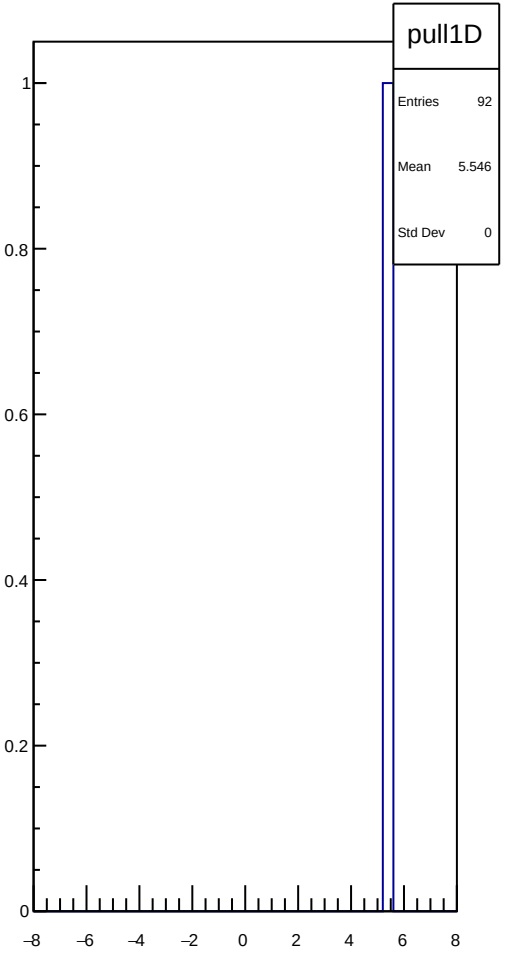

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

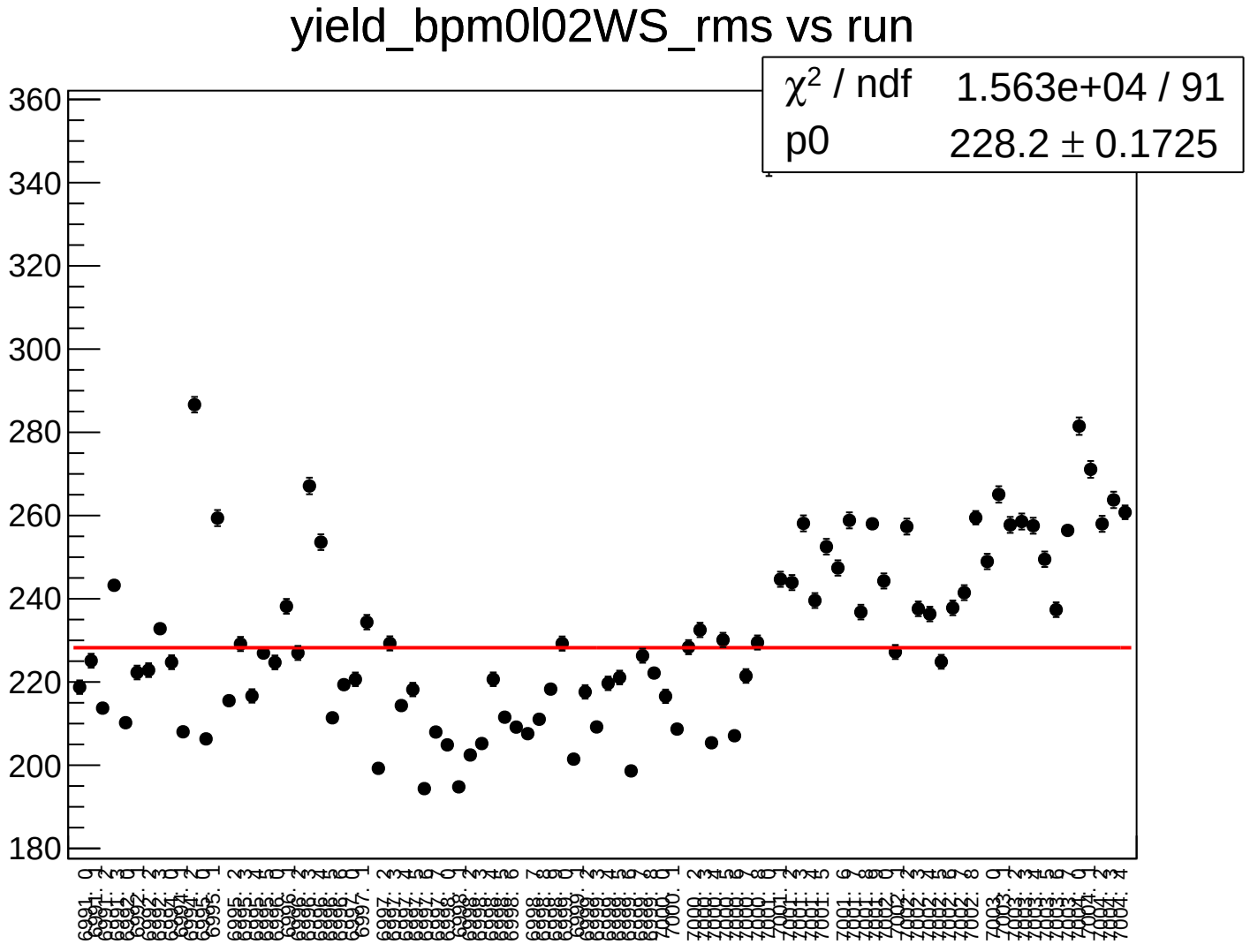

yield_bpm0i01aWS_rms vs run
χ² / ndf 1.892e+04 / 91
p0 160.9 ± 0.1218
300
280
260
240
220
200
180
160
140

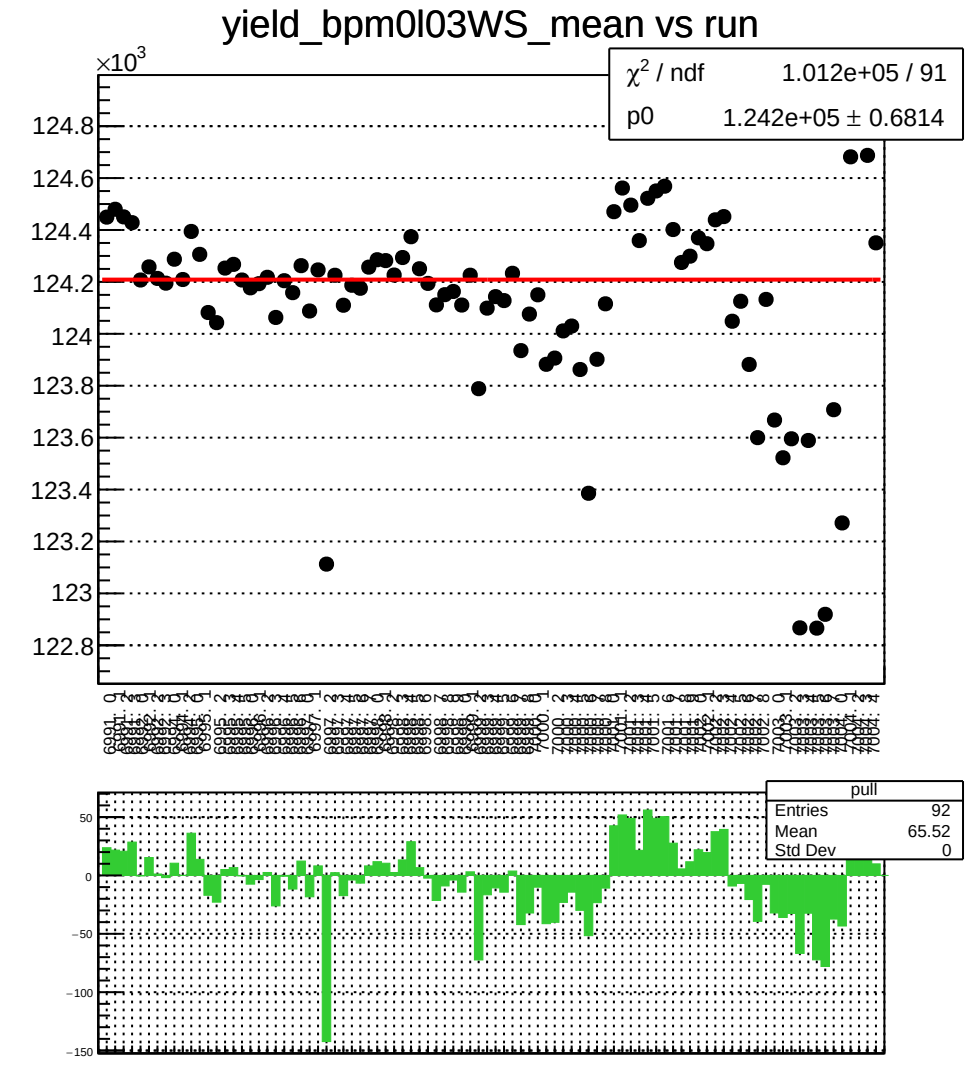

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.482e+06 / 91
p0 1.189e+05 ± 0.1786
119.2
119
118.8
118.6
118.4
118.2
118
pull
Entries 92
Mean 1967
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 92
Mean 2.112
Std Dev 4.568
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

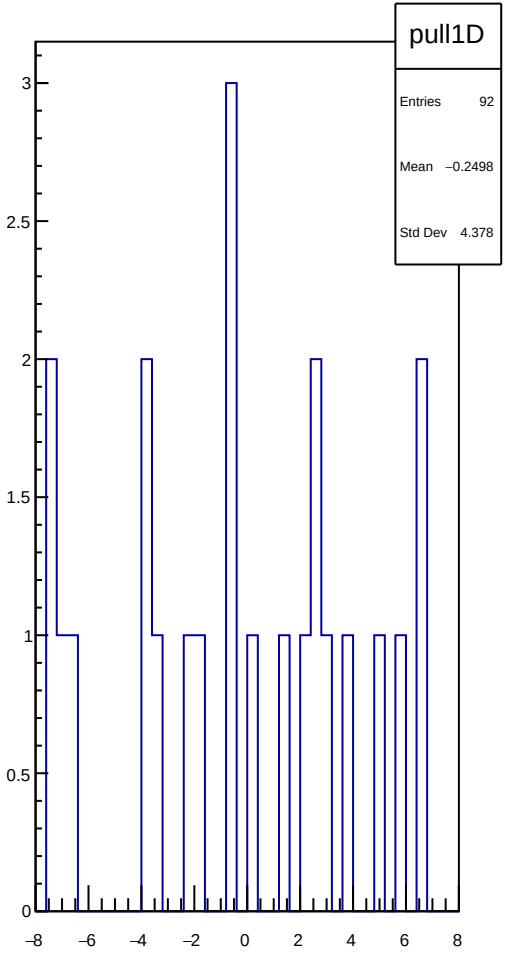

yield_bpm0l01WS_rms vs run
χ² / ndf 3.462e+04 / 91
p0 166.1 ± 0.1263
450
400
350
300
250
200
150

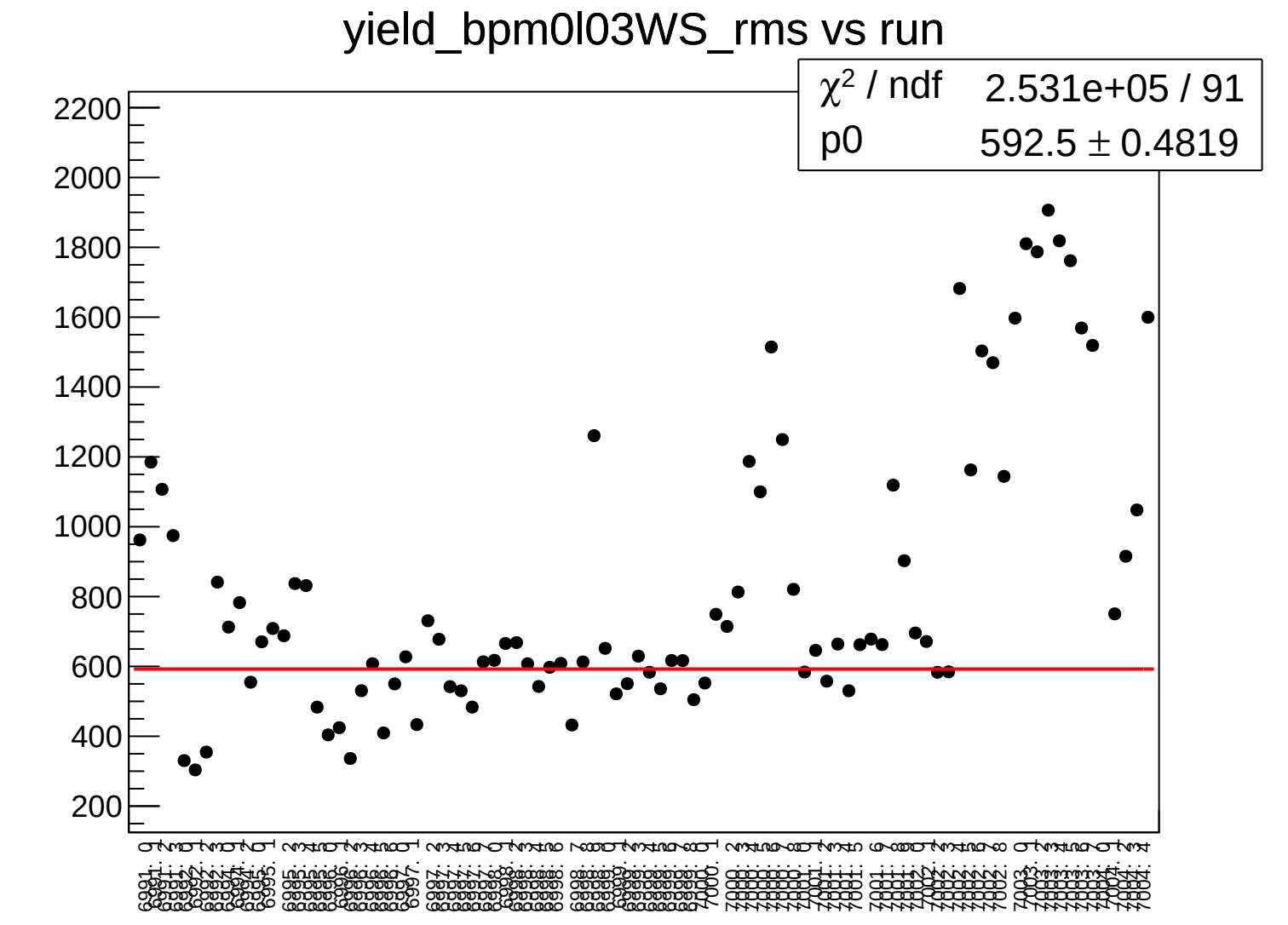

yield_bpm0l02WS_mean vs run
χ² / ndf 5.064e+06 / 91
p0 1.245e+05 ± 0.244
×10³
126
125.5
125
124.5
124
pull
Entries 92
Mean 316.7
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

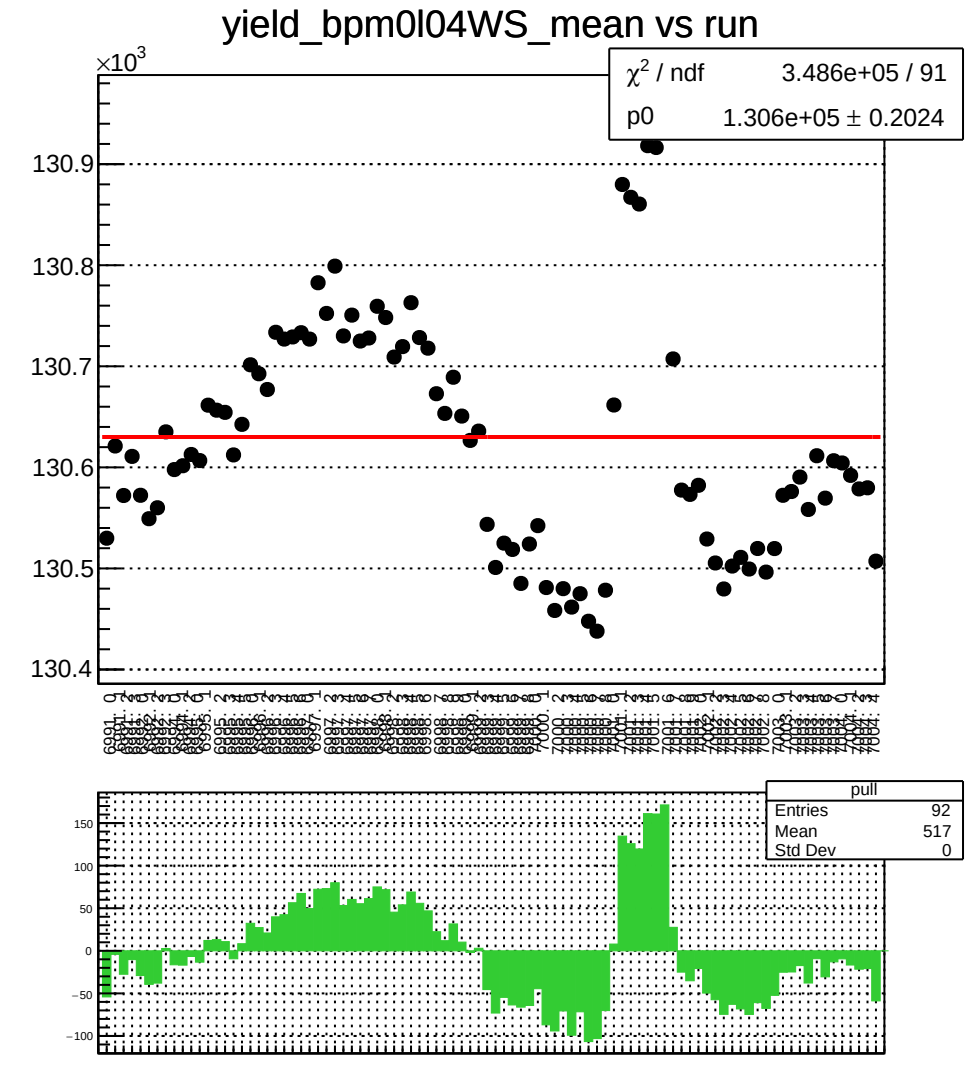

pull1D
Entries 92
Mean 5.546
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

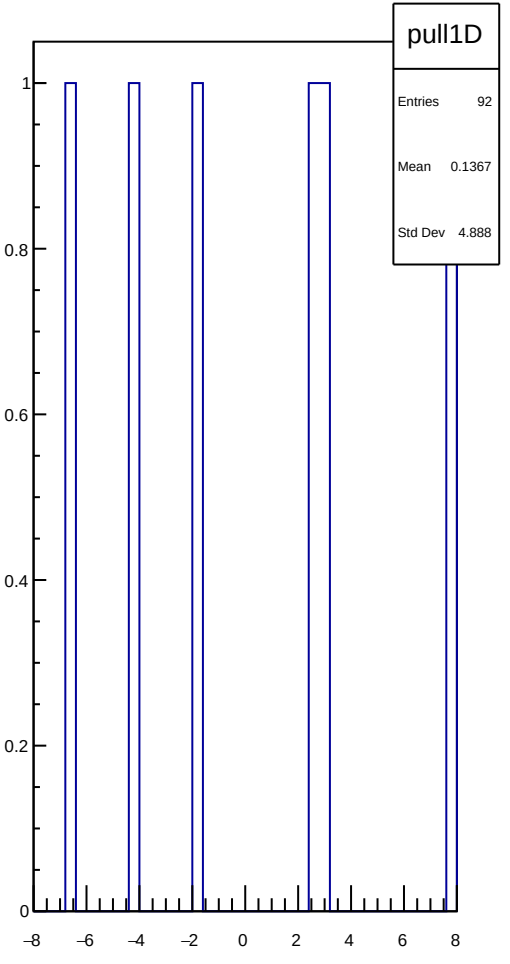

yield_bpm0l02WS_rms vs run
χ² / ndf 1.563e+04 / 91
p0 228.2 ± 0.1725
360
340
320
300
280
260
240
220
200
180

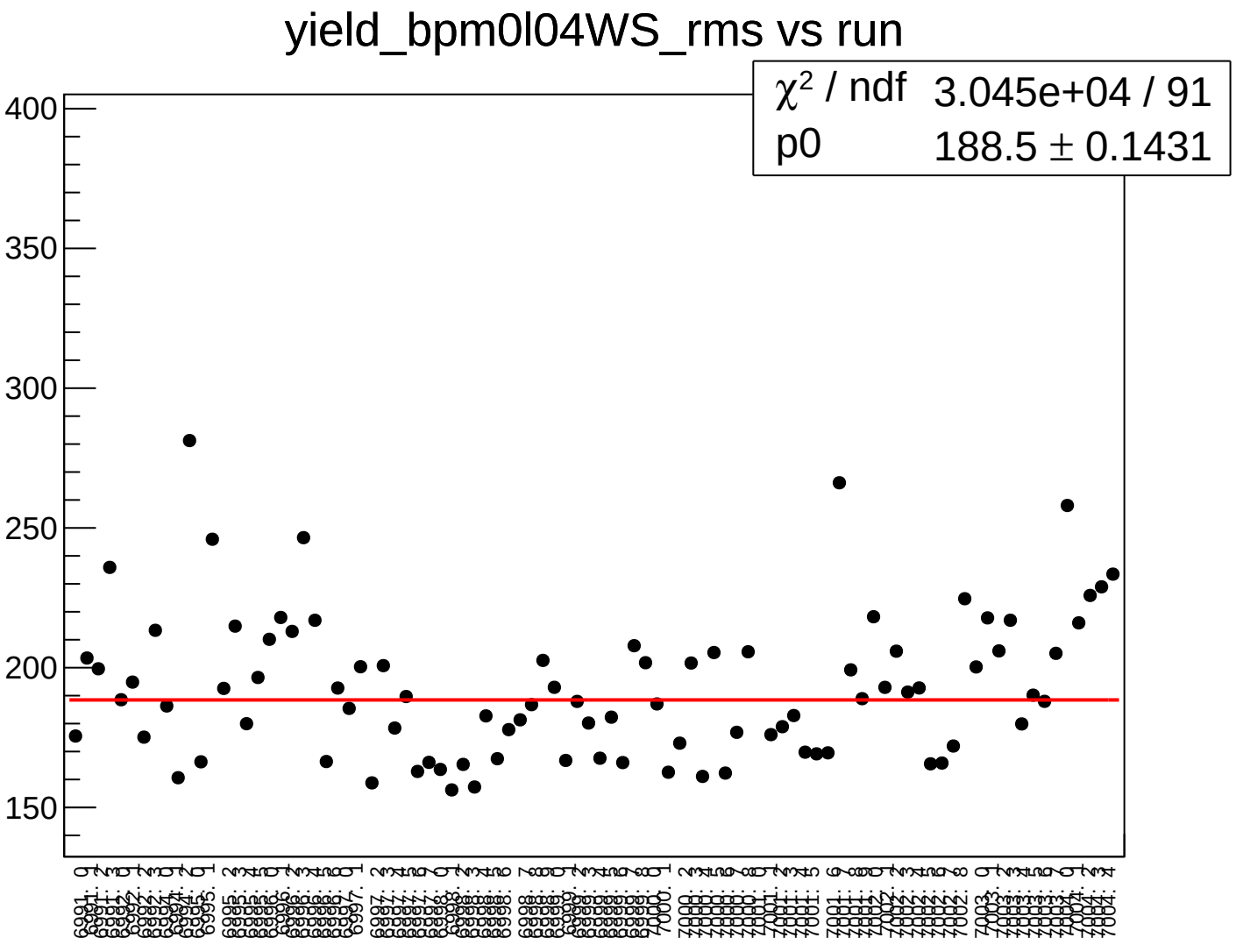

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.012e+05 / 91
p0 1.242e+05 ± 0.6814
124.8
124.6
124.4
124.2
124
123.8
123.6
123.4
123.2
123
122.8
pull
Entries 92
Mean 65.52
Std Dev 0
50
0
−50
−100
−150

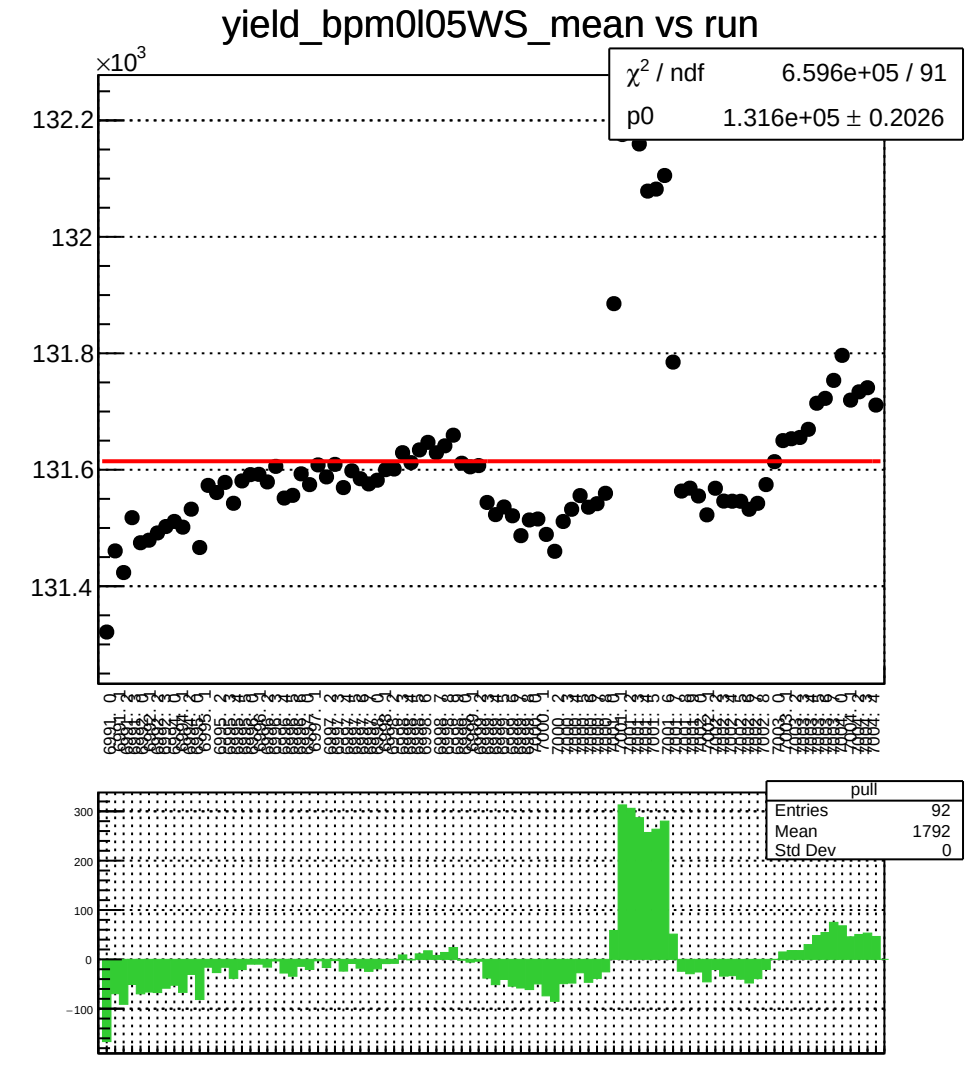

pull1D
Entries 92
Mean −0.2498
Std Dev 4.378
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

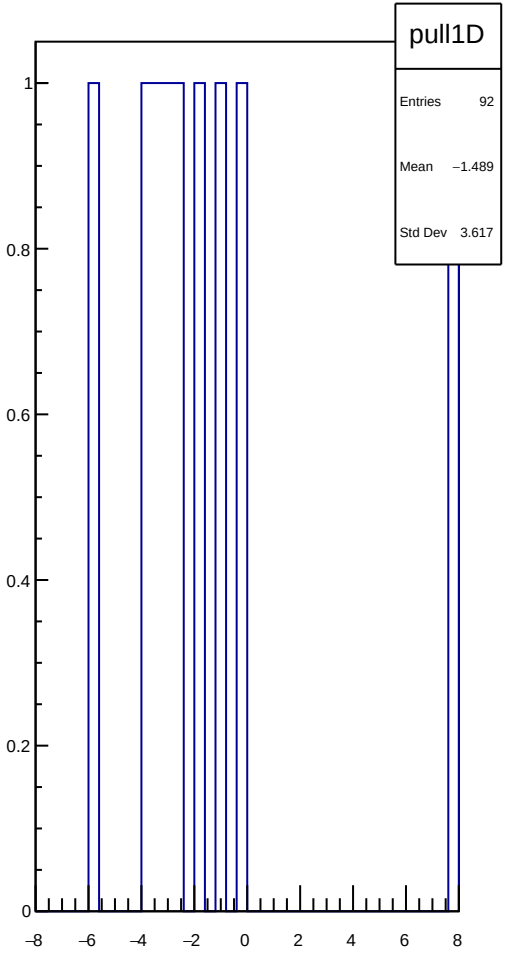

yield_bpm0l03WS_rms vs run
χ² / ndf 2.531e+05 / 91
p0 592.5 ± 0.4819
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

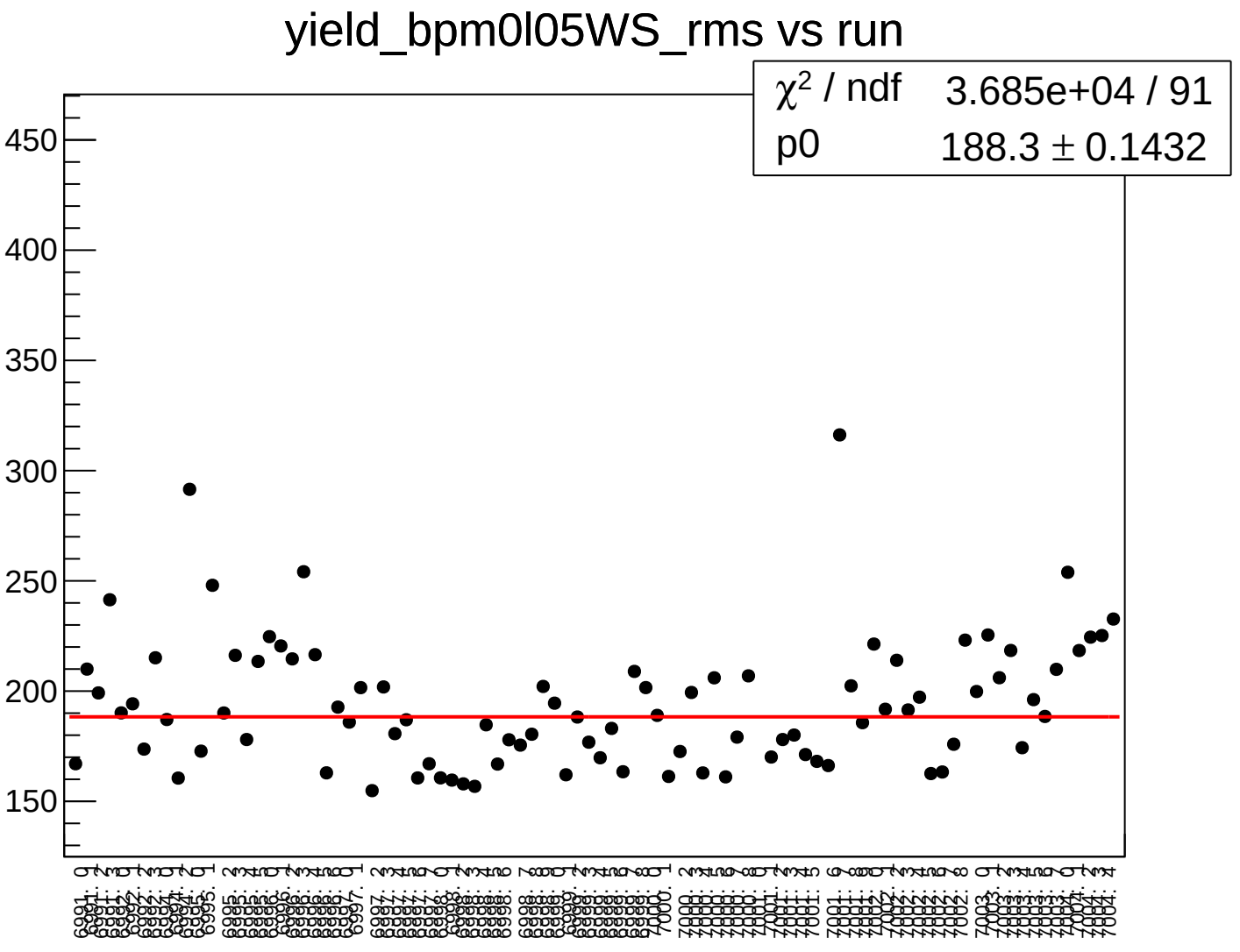

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.486e+05 / 91
p0 1.306e+05 ± 0.2024
130.9
130.8
130.7
130.6
130.5
130.4
pull
Entries 92
Mean 517
Std Dev 0
150
100
50
0
−50
−100

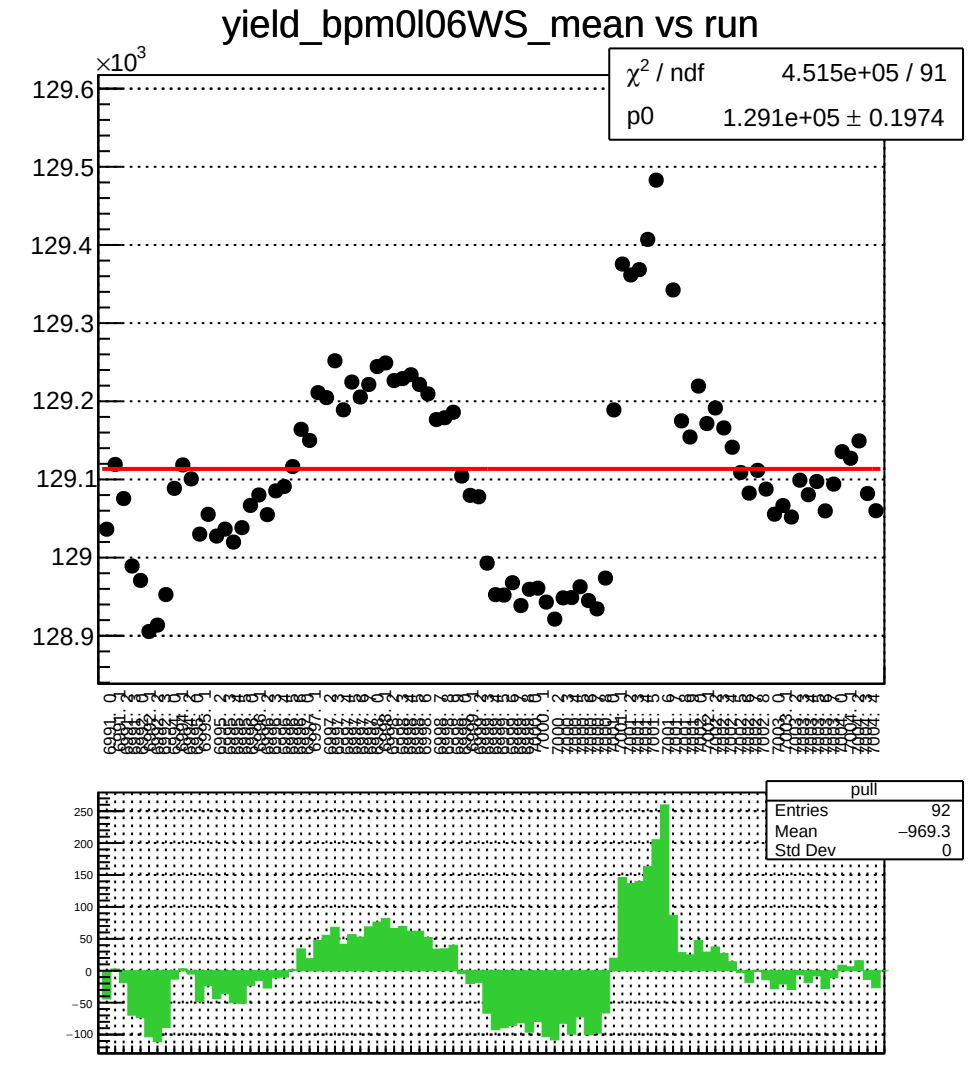

pull1D
Entries 92
Mean 0.1367
Std Dev 4.888
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

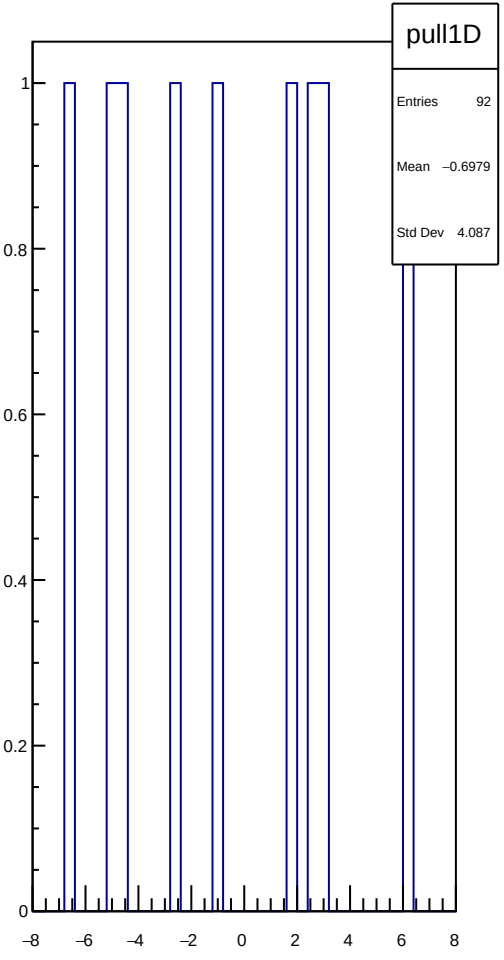

yield_bpm0l04WS_rms vs run
χ² / ndf 3.045e+04 / 91
p0 188.5 ± 0.1431
400
350
300
250
200
150

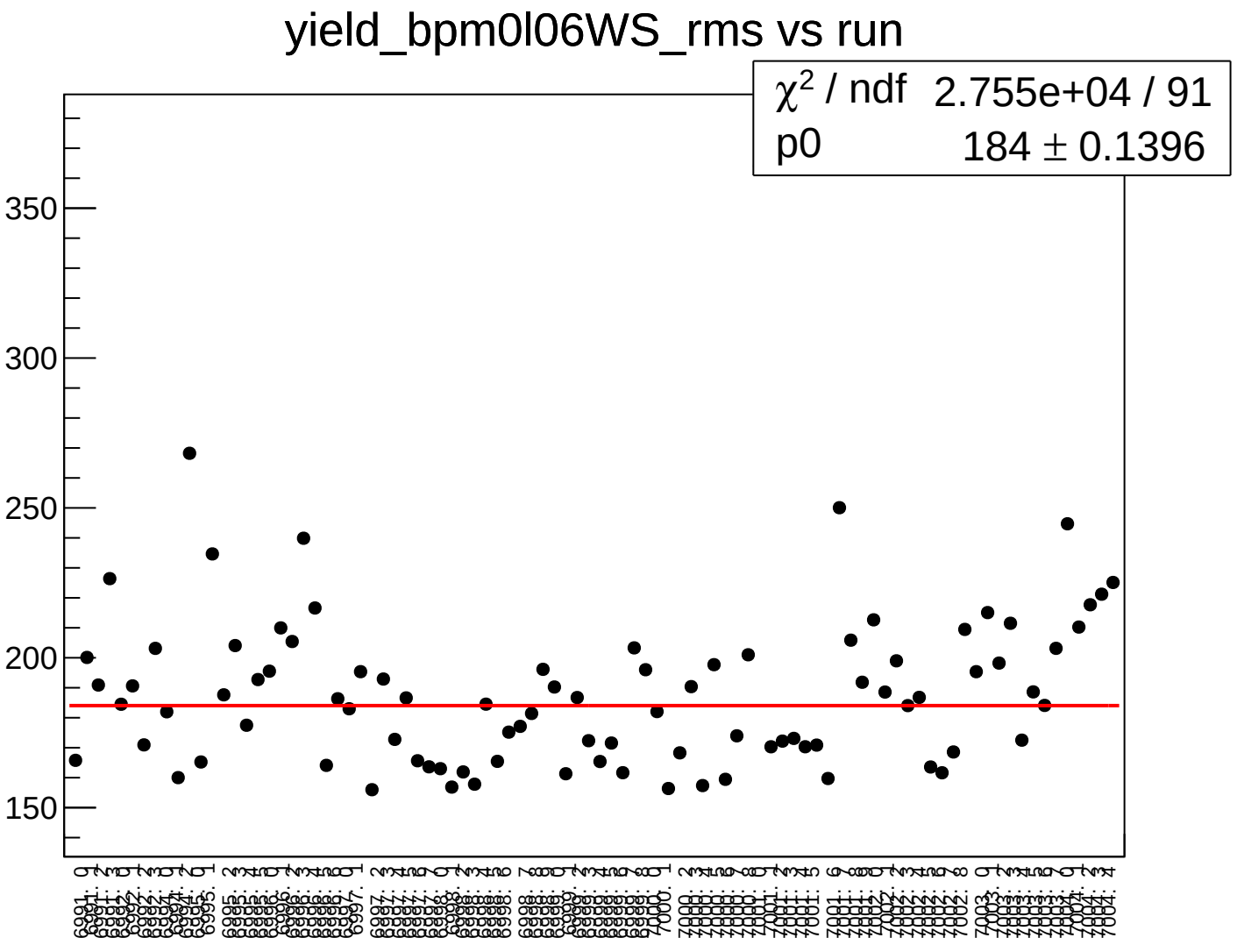

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 6.596e+05 / 91
p0 1.316e+05 ± 0.2026
132.2
132
131.8
131.6
131.4
pull
Entries 92
Mean 1792
Std Dev 0
300
200
100
0
−100

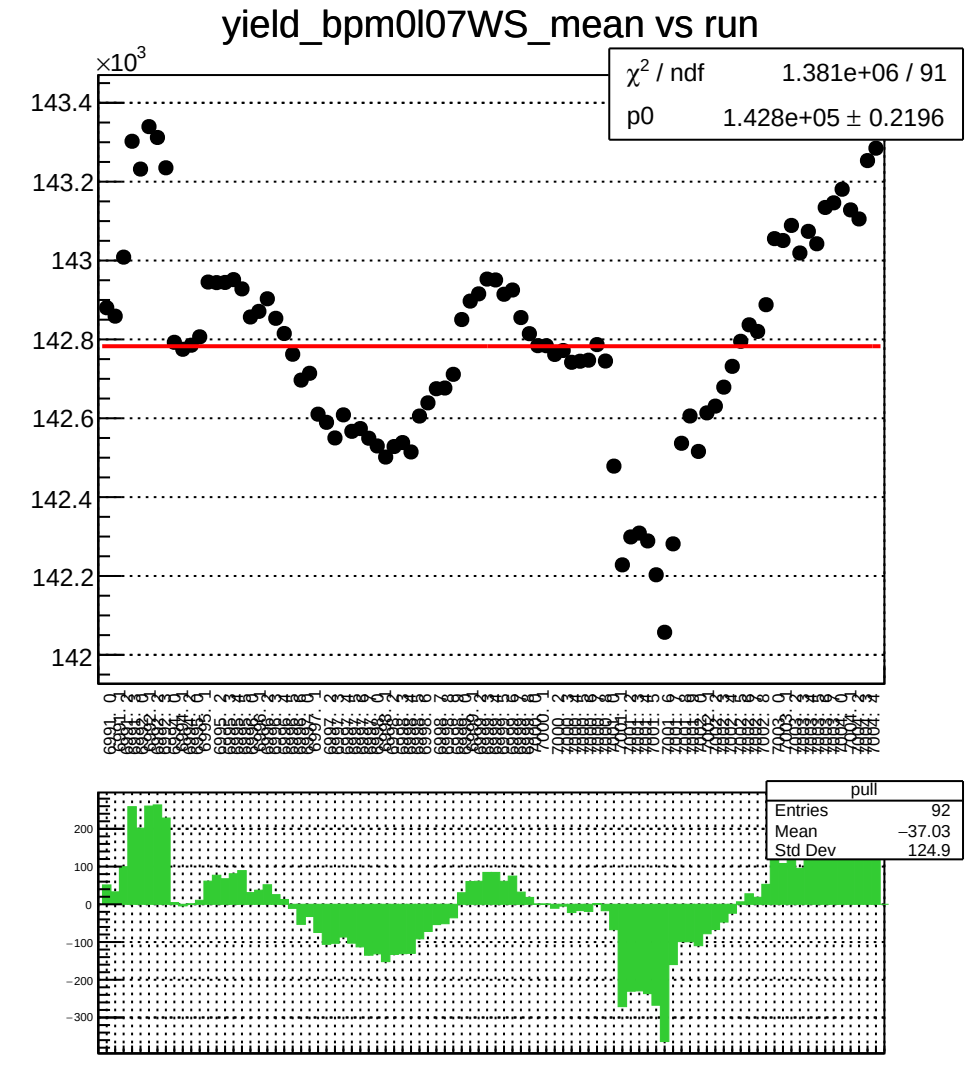

pull1D
Entries 92
Mean −1.489
Std Dev 3.617
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

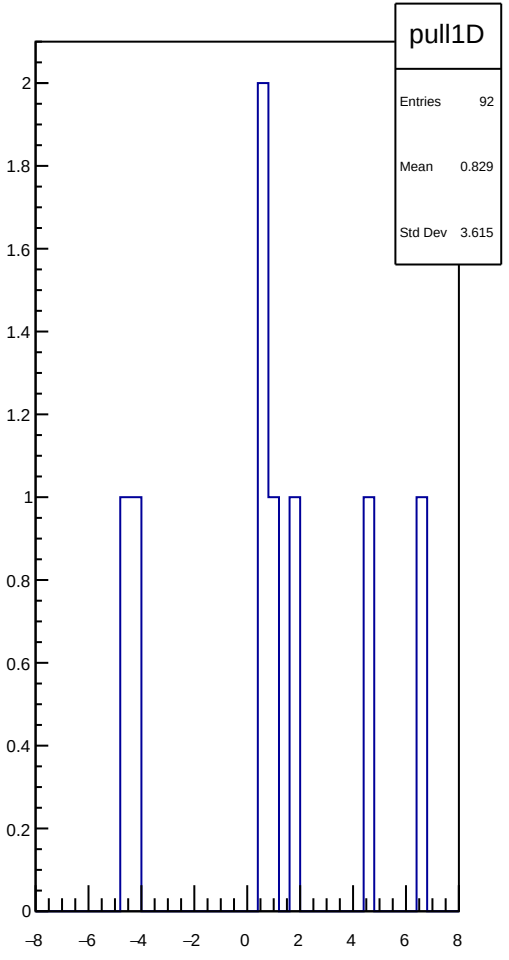

yield_bpm0l05WS_rms vs run
χ² / ndf 3.685e+04 / 91
p0 188.3 ± 0.1432
450
400
350
300
250
200
150

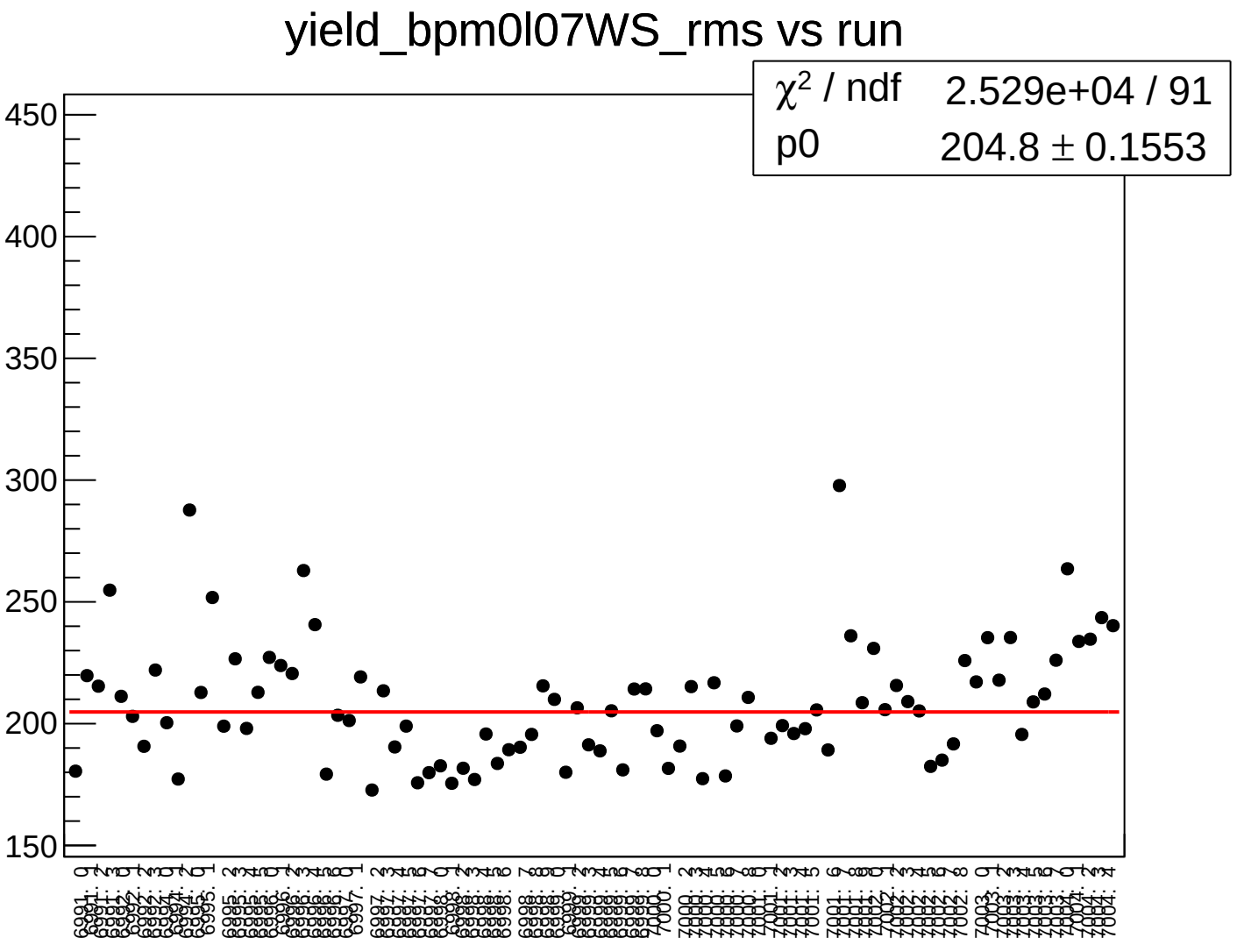

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 4.515e+05 / 91
p0 1.291e+05 ± 0.1974
129.6
129.5
129.4
129.3
129.2
129.1
129
128.9
pull
Entries 92
Mean −969.3
Std Dev 0
250
200
150
100
50
0
−50
−100

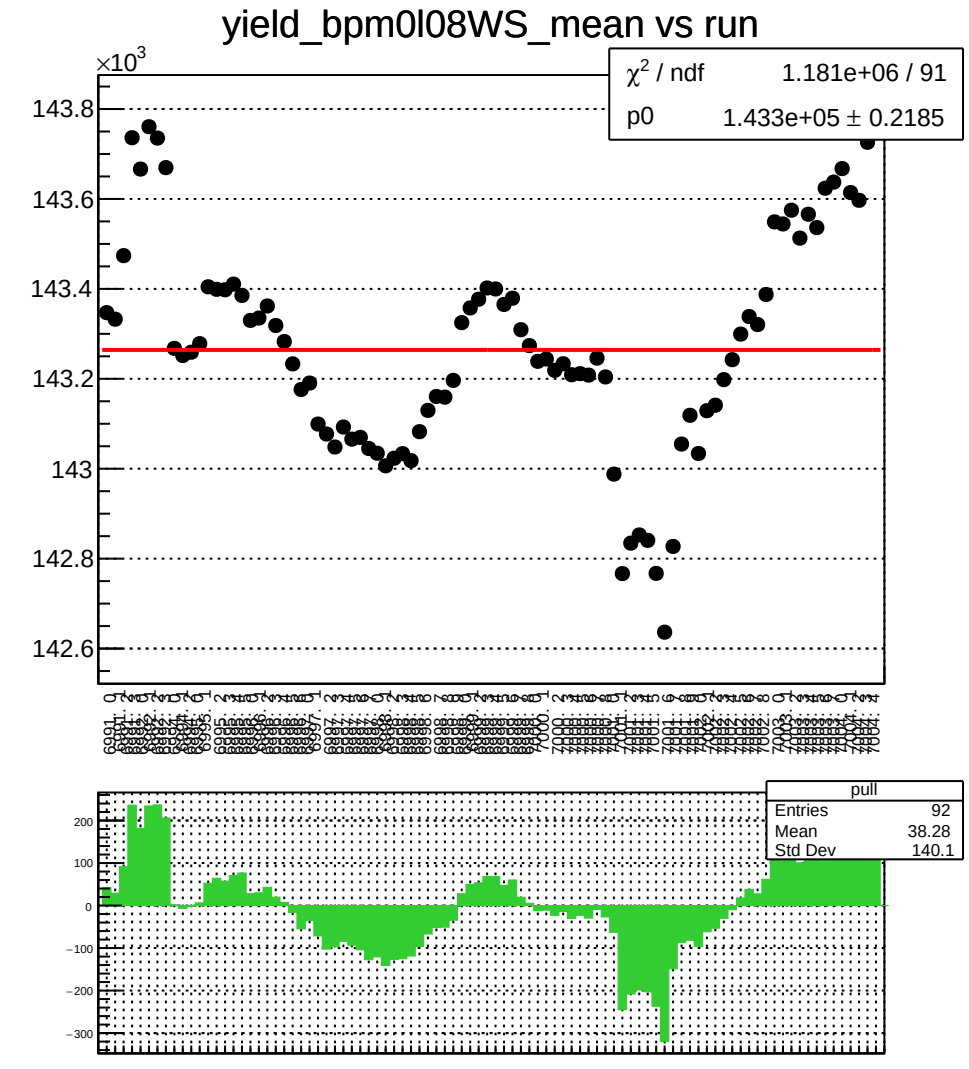

pull1D
Entries 92
Mean −0.6979
Std Dev 4.087
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

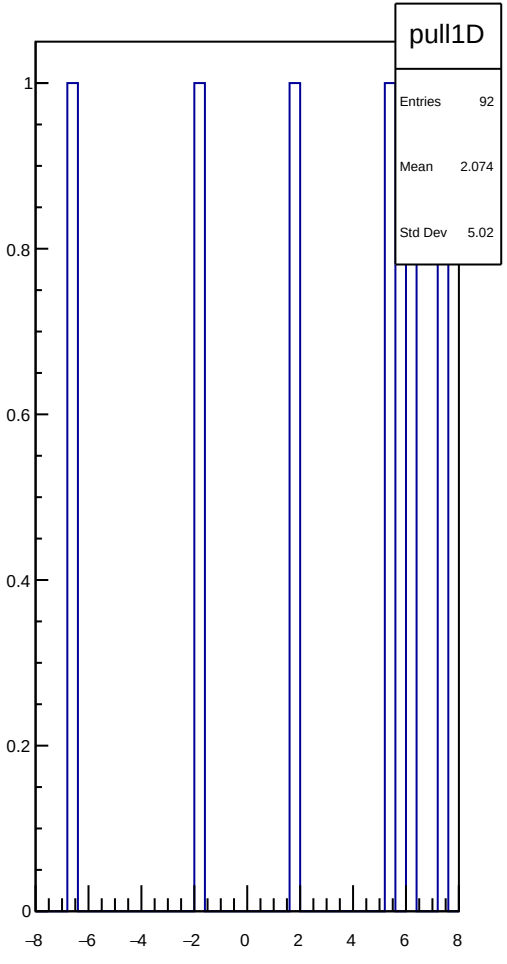

yield_bpm0l06WS_rms vs run
χ² / ndf 2.755e+04 / 91
p0 184 ± 0.1396
350
300
250
200
150

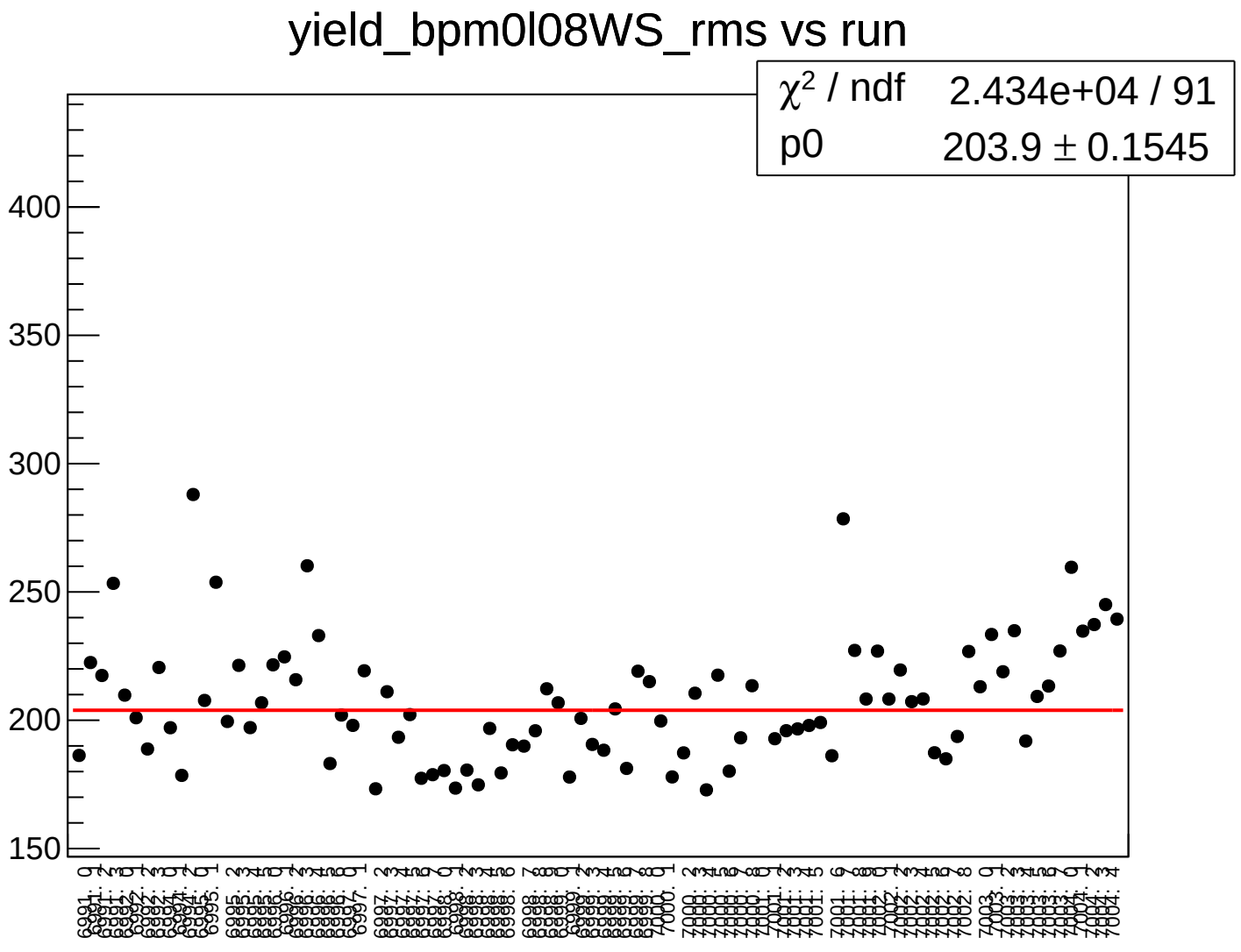

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.381e+06 / 91
p0 1.428e+05 ± 0.2196
143.4
143.2
143
142.8
142.6
142.4
142.2
142
pull
Entries 92
Mean −37.03
Std Dev 124.9
200
100
0
−100
−200
−300

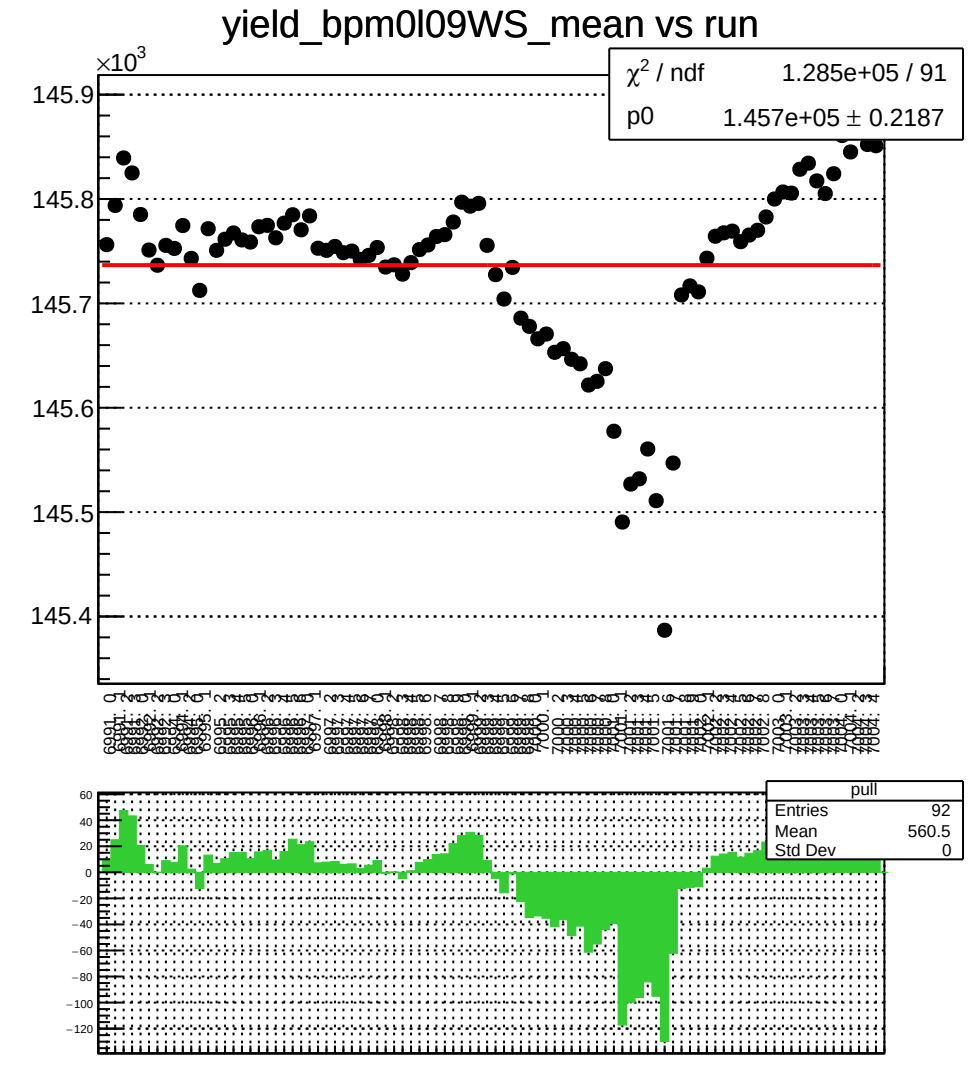

pull1D
Entries 92
Mean 0.829
Std Dev 3.615
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

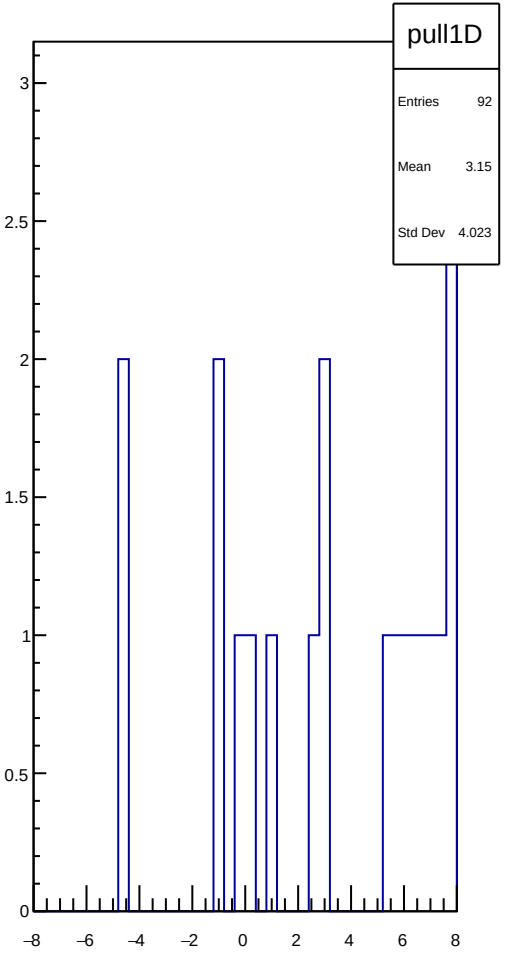

yield_bpm0l07WS_rms vs run
χ² / ndf 2.529e+04 / 91
p0 204.8 ± 0.1553
450
400
350
300
250
200
150

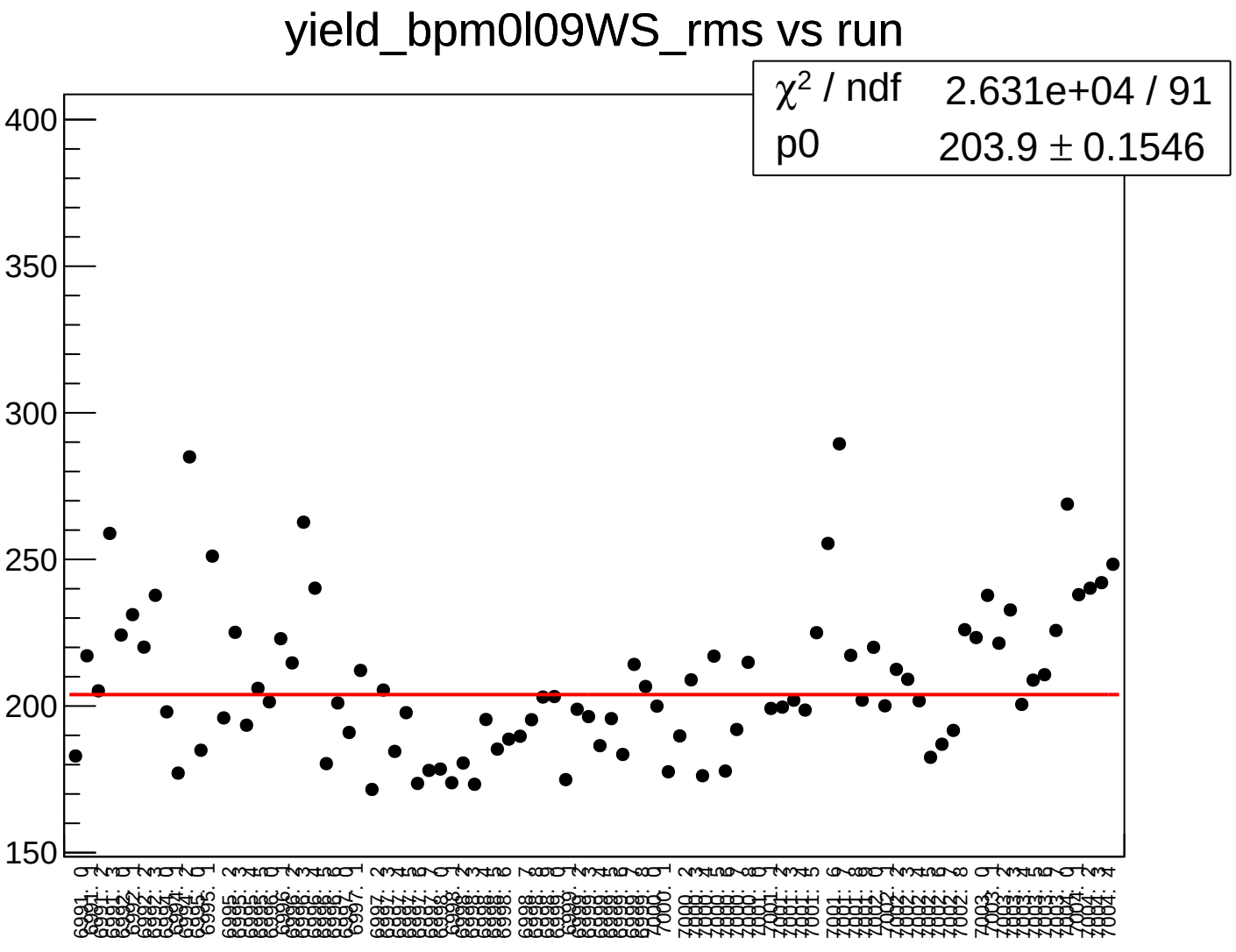

yield_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 1.181e+06 / 91
p0 1.433e+05 ± 0.2185
143.8
143.6
143.4
143.2
143
142.8
142.6
pull
Entries 92
Mean 38.28
Std Dev 140.1
200
100
0
−100
−200
−300

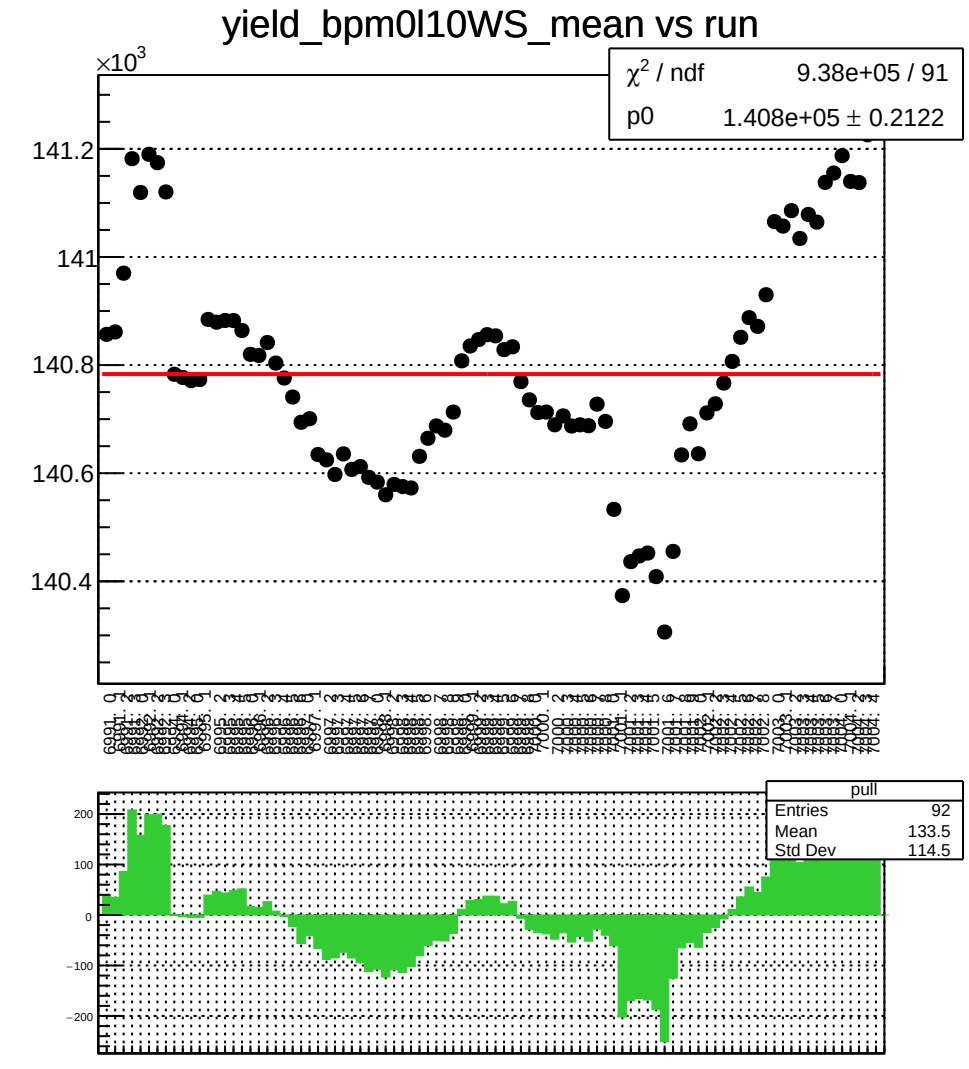

pull1D
Entries 92
Mean 2.074
Std Dev 5.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

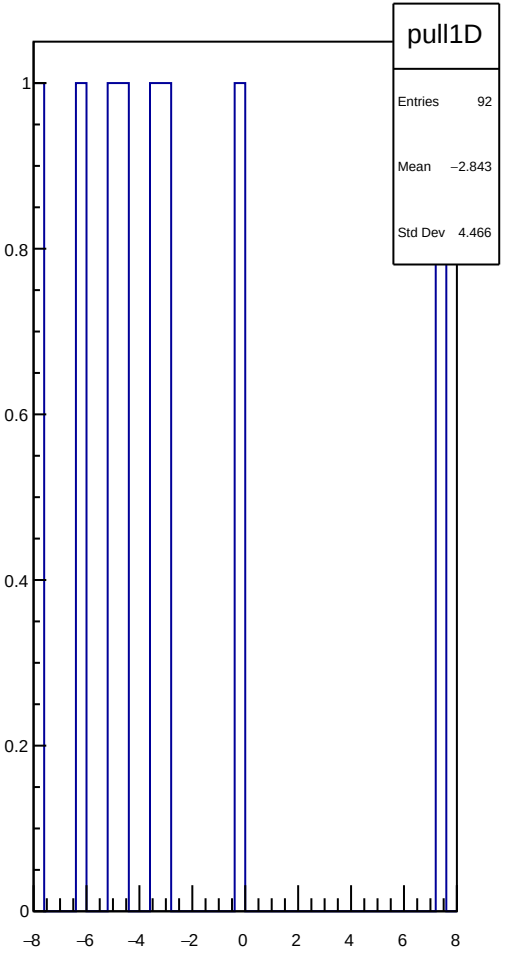

yield_bpm0l08WS_rms vs run
χ² / ndf 2.434e+04 / 91
p0 203.9 ± 0.1545
400
350
300
250
200
150

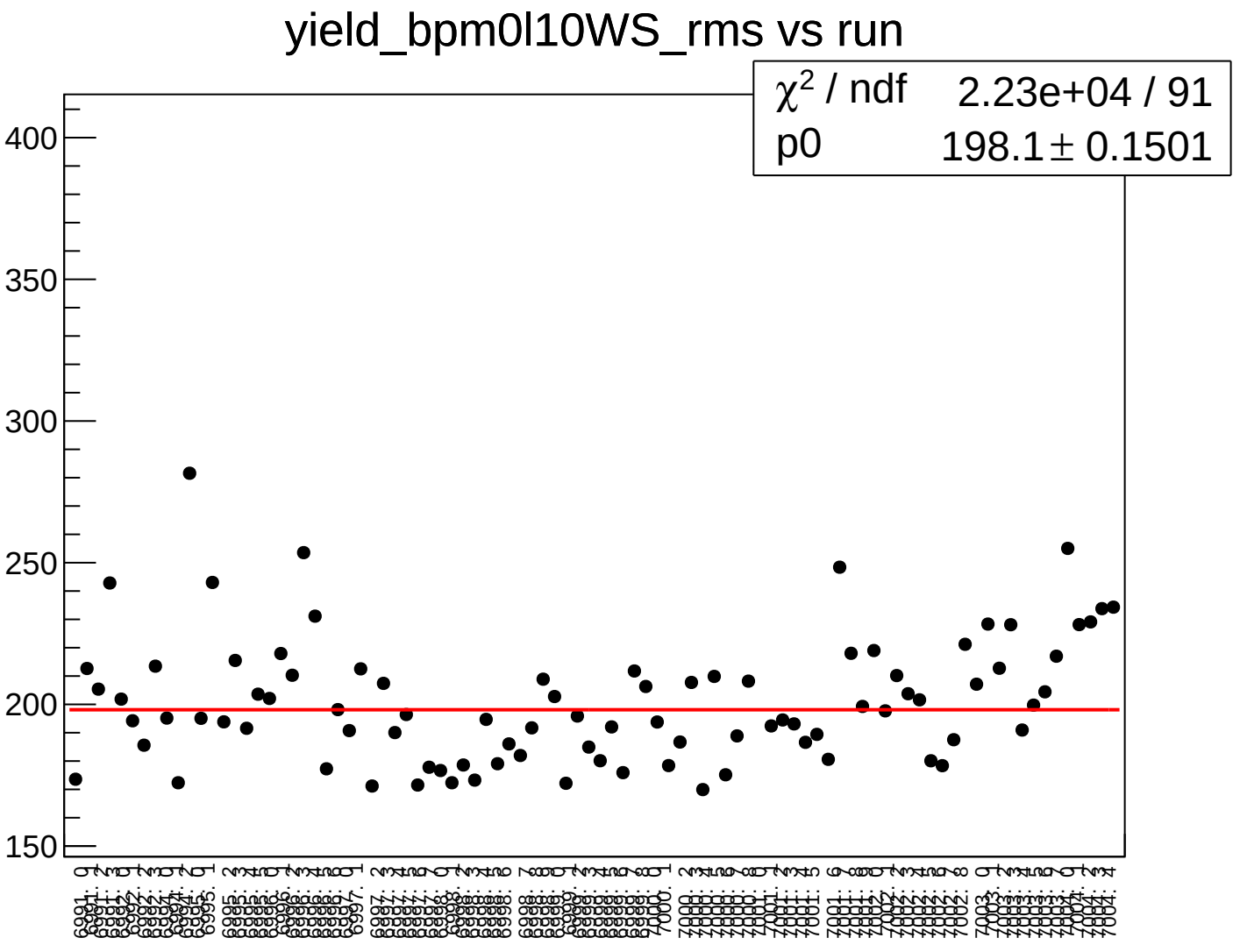

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.285e+05 / 91
p0 1.457e+05 ± 0.2187
145.9
145.8
145.7
145.6
145.5
145.4
pull
Entries 92
Mean 560.5
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120

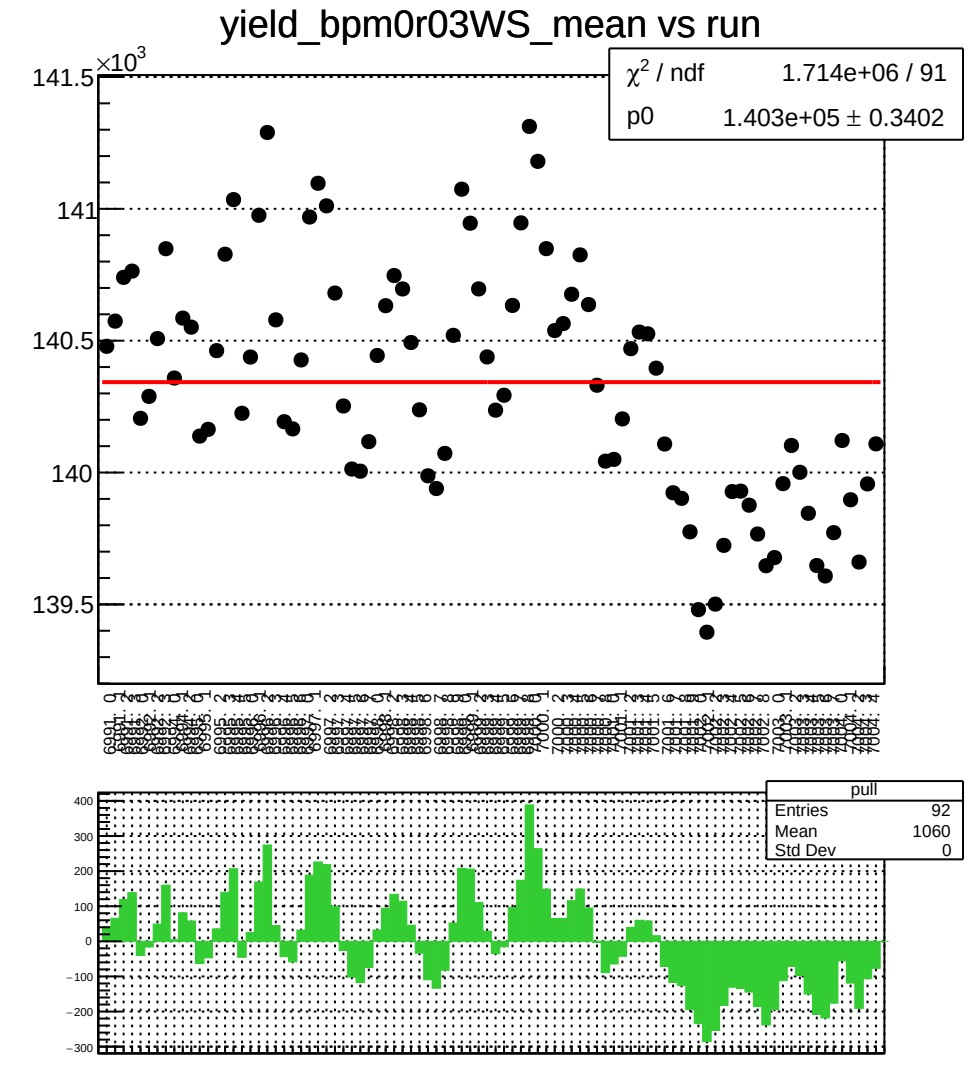

pull1D
Entries 92
Mean 3.15
Std Dev 4.023
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

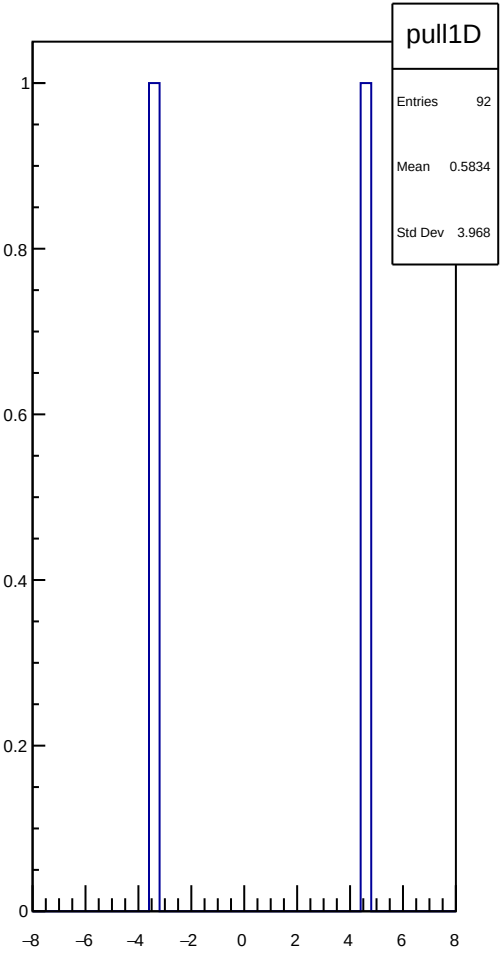

yield_bpm0l09WS_rms vs run
χ² / ndf 2.631e+04 / 91
p0 203.9 ± 0.1546
400
350
300
250
200
150

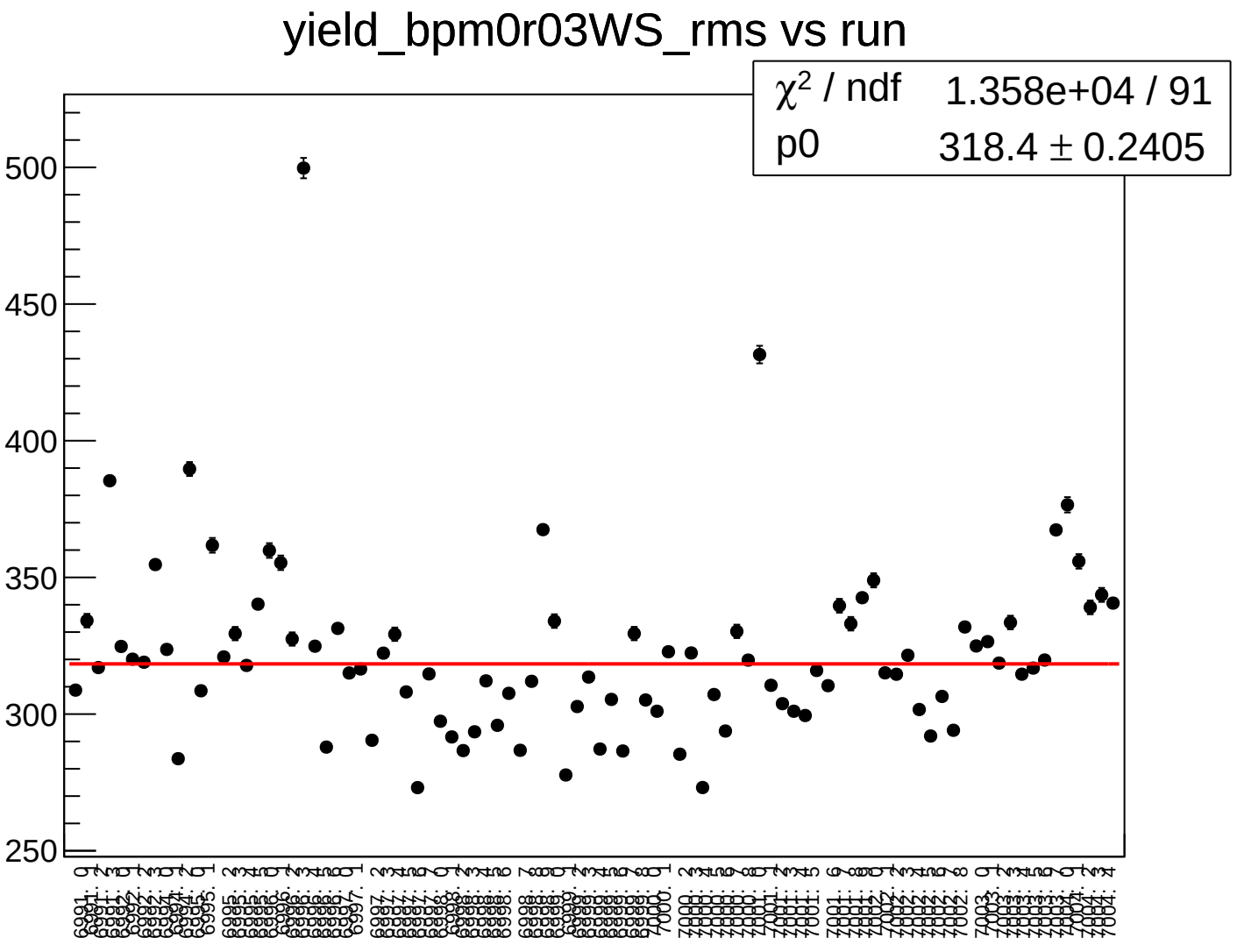

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 9.38e+05 / 91
p0 1.408e+05 ± 0.2122
141.2
141
140.8
140.6
140.4
pull
Entries 92
Mean 133.5
Std Dev 114.5
200
100
0
−100
−200

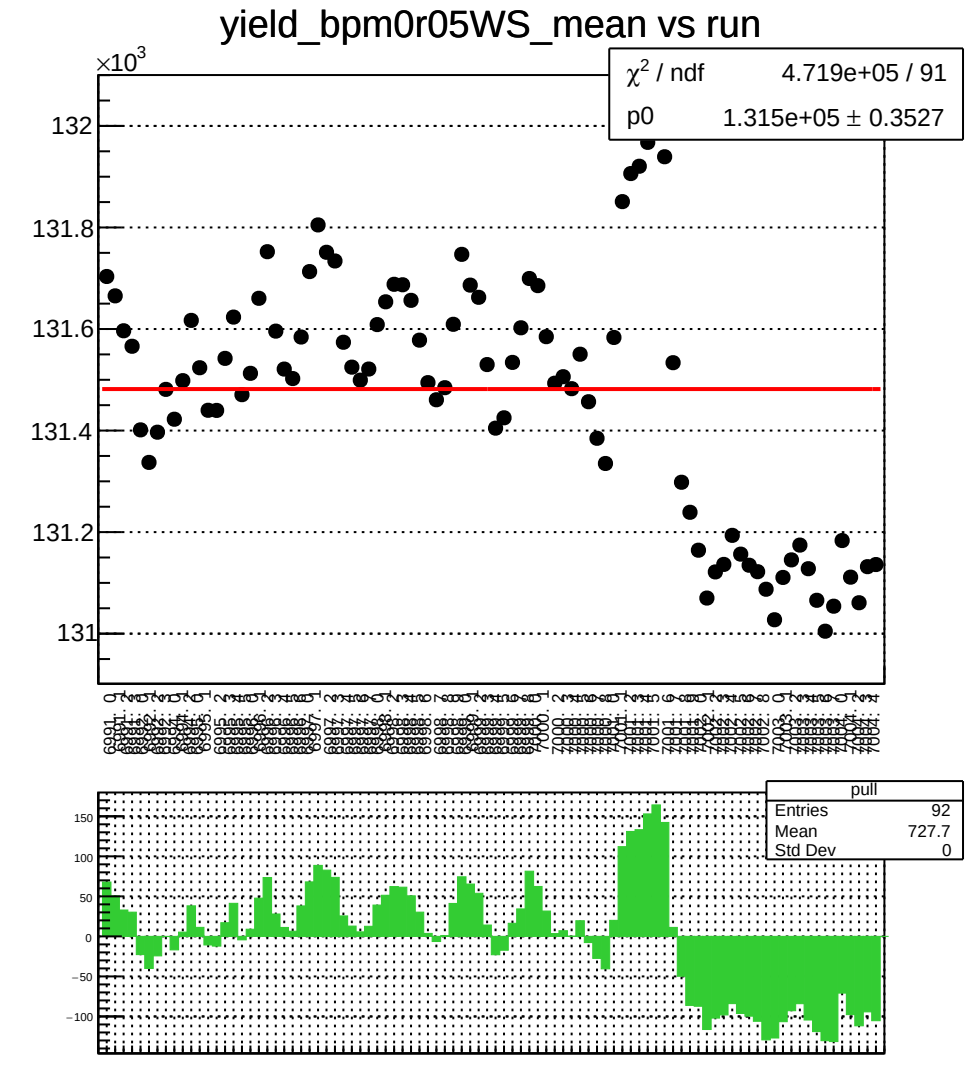

pull1D
Entries 92
Mean −2.843
Std Dev 4.466
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

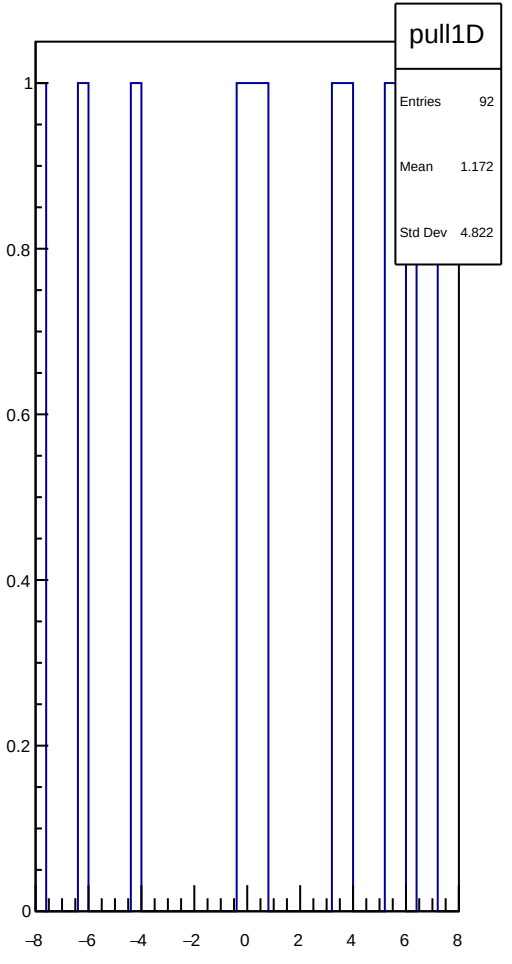

yield_bpm0l10WS_rms vs run
χ² / ndf 2.23e+04 / 91
p0 198.1 ± 0.1501
400
350
300
250
200
150

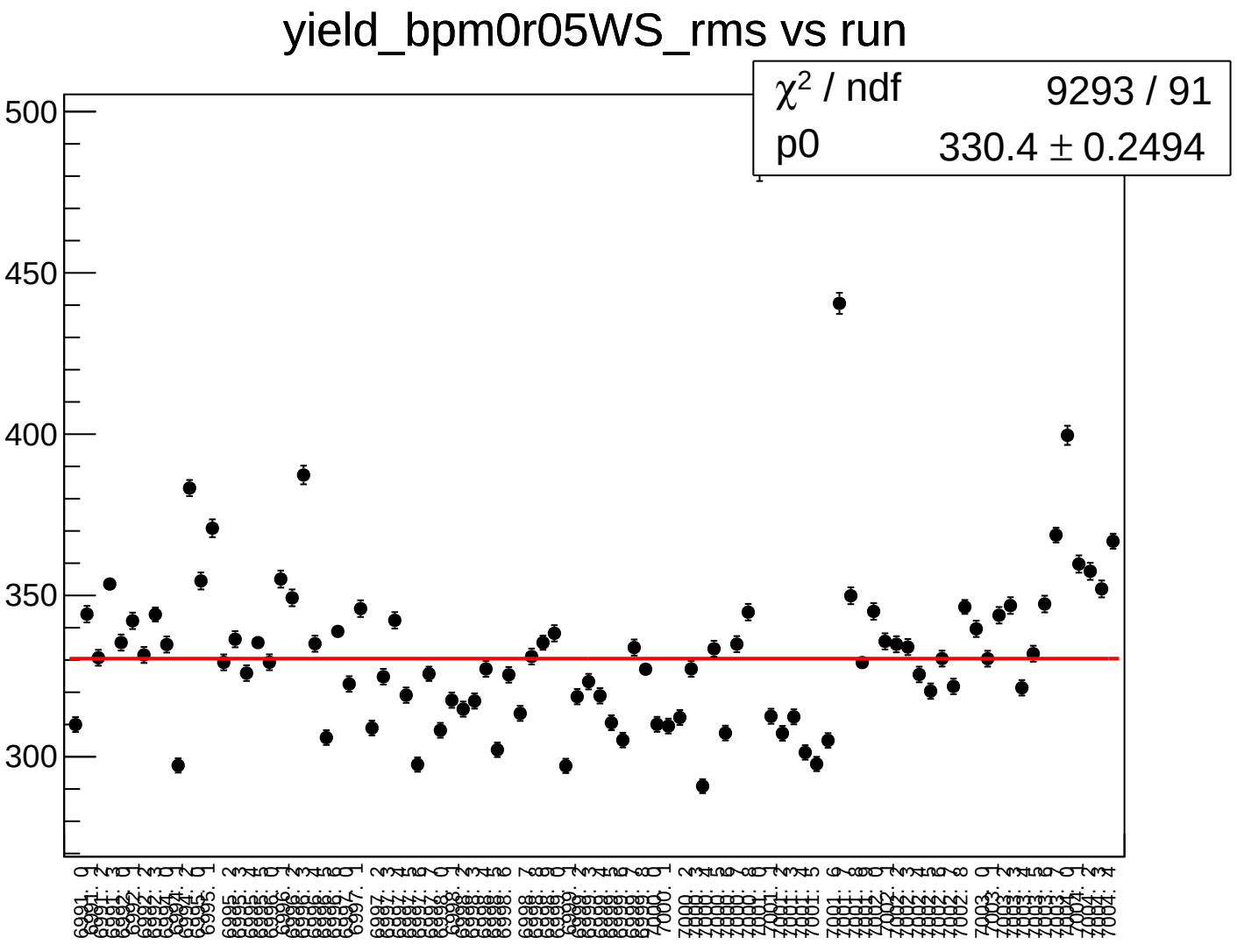

yield_bpm0r03WS_mean vs run
×10^3
141.5
141
140.5
140
139.5
χ² / ndf 1.714e+06 / 91
p0 1.403e+05 ± 0.3402
pull
Entries 92
Mean 1060
Std Dev 0
400
300
200
100
0
−100
−200
−300

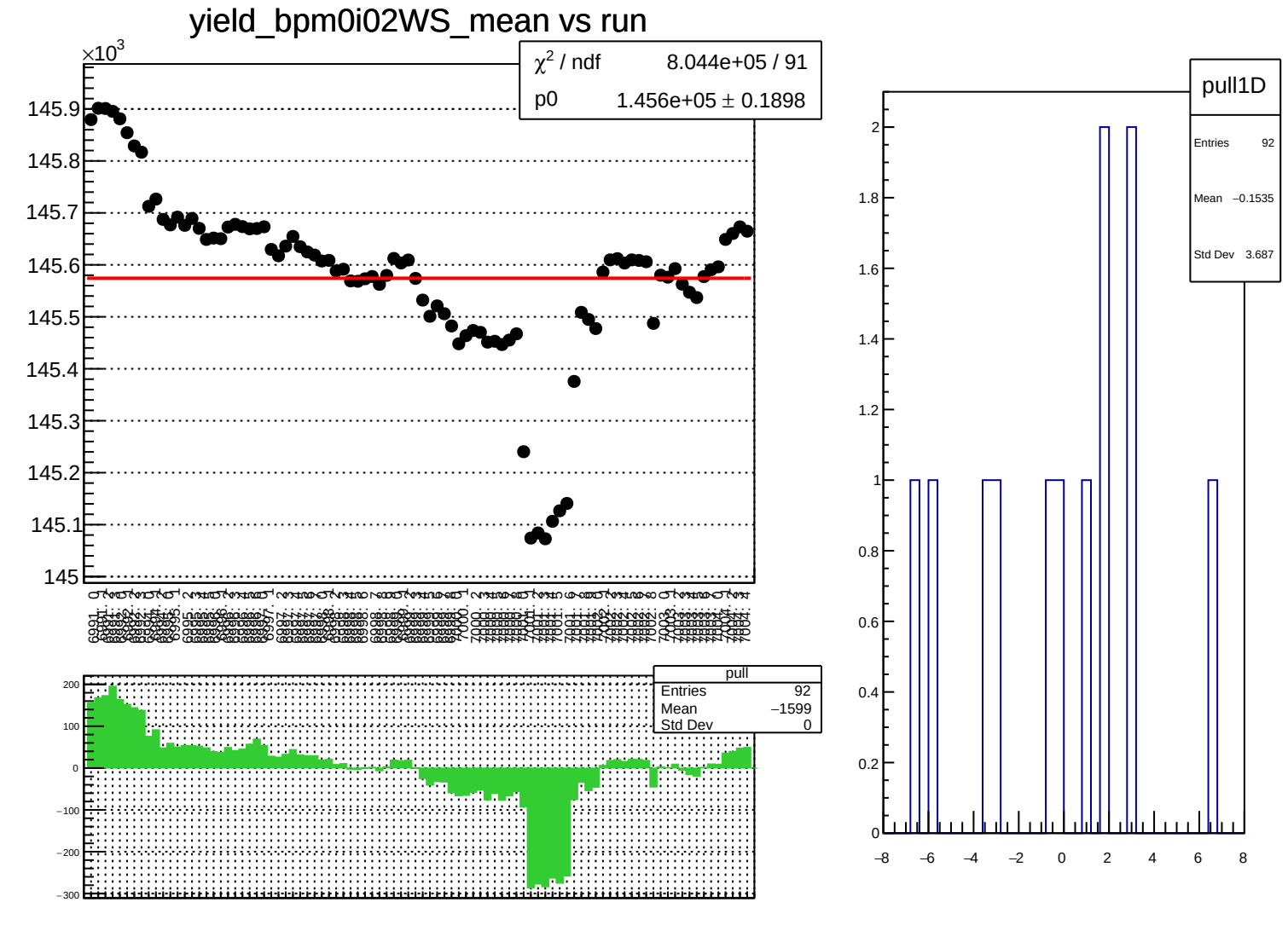

pull1D
Entries 92
Mean 0.5834
Std Dev 3.968
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

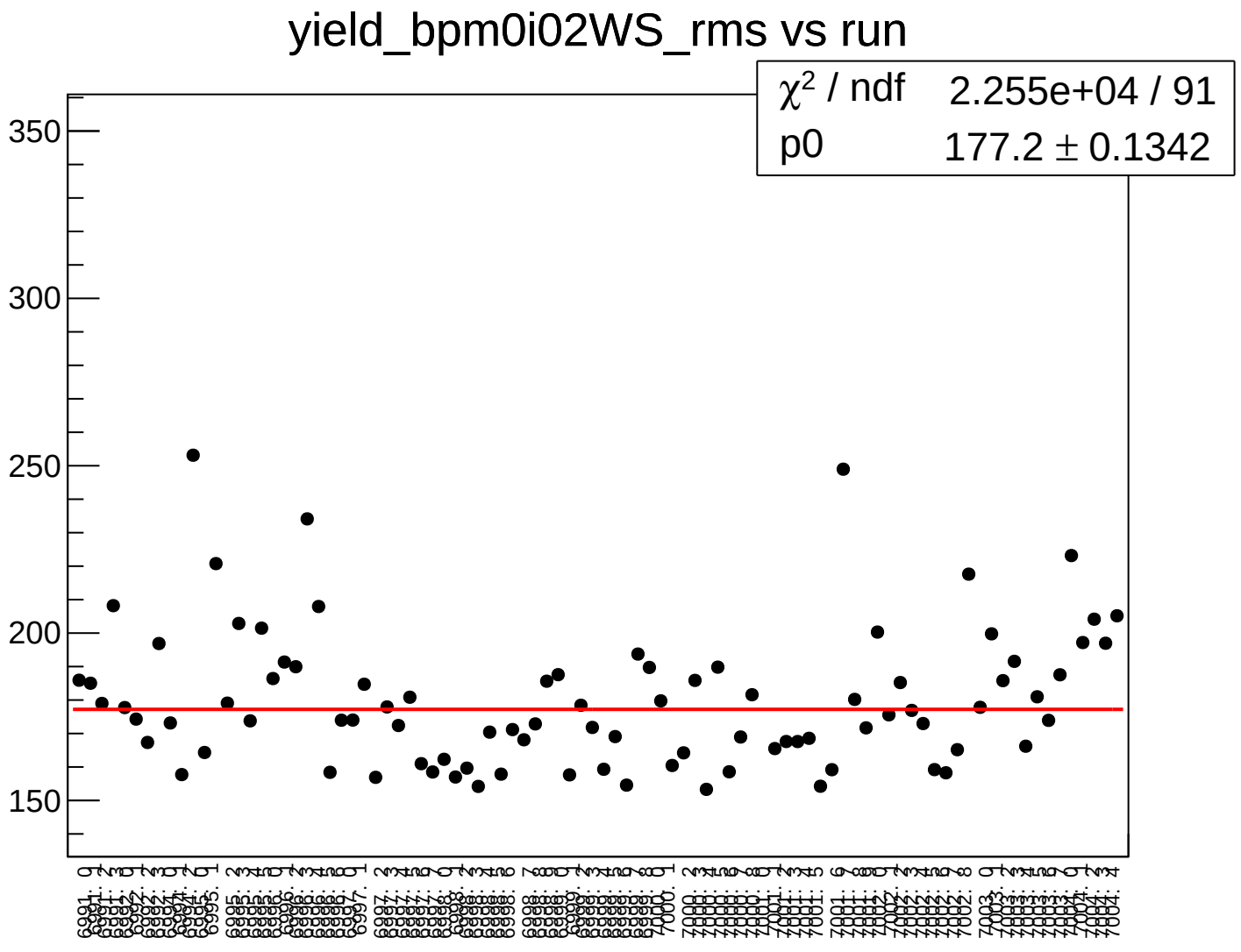

yield_bpm0r03WS_rms vs run
χ² / ndf 1.358e+04 / 91
p0 318.4 ± 0.2405
500
450
400
350
300
250

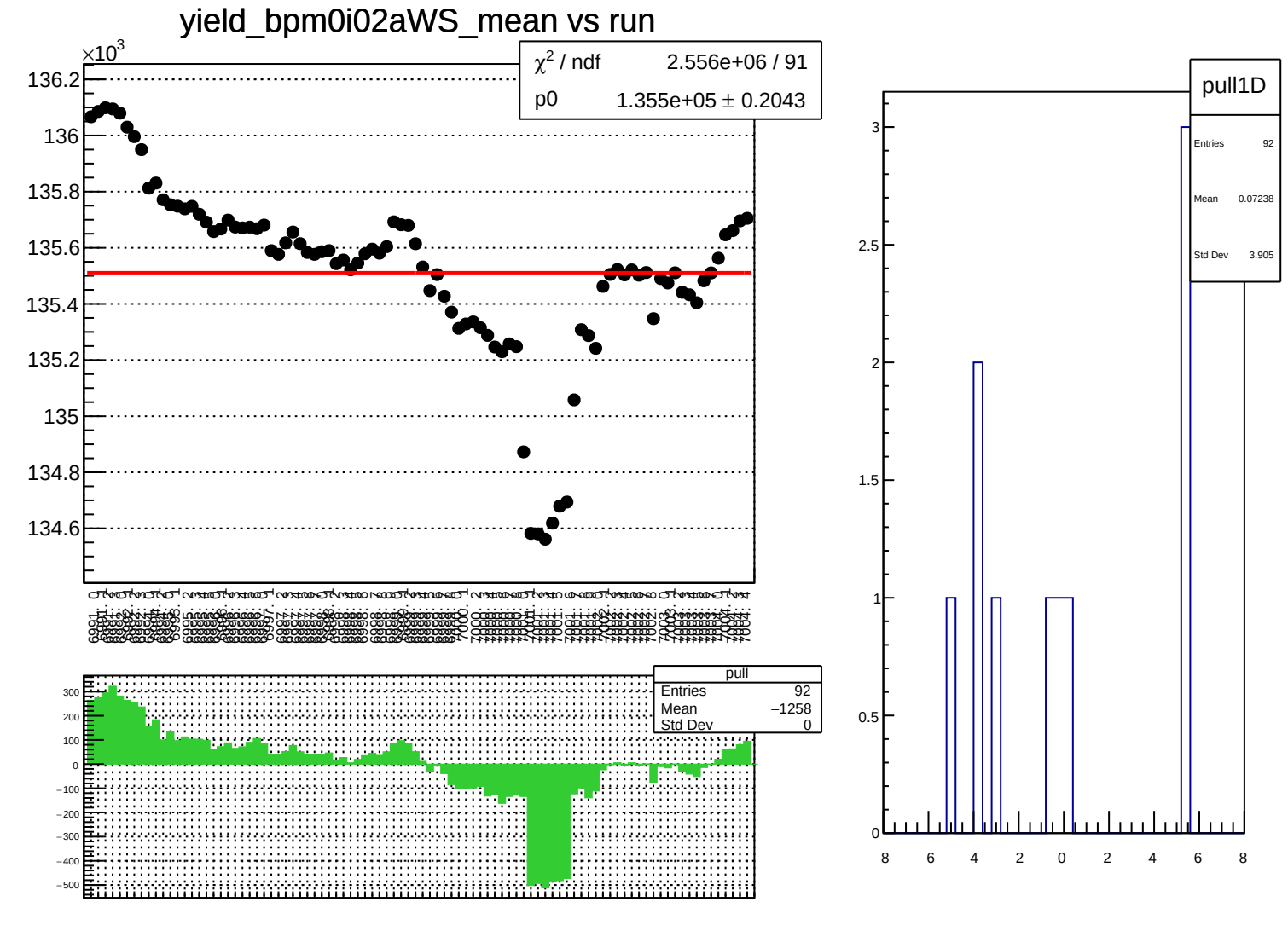

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 4.719e+05 / 91
p0 1.315e+05 ± 0.3527
132
131.8
131.6
131.4
131.2
131
pull
Entries 92
Mean 727.7
Std Dev 0
150
100
50
0
−50
−100

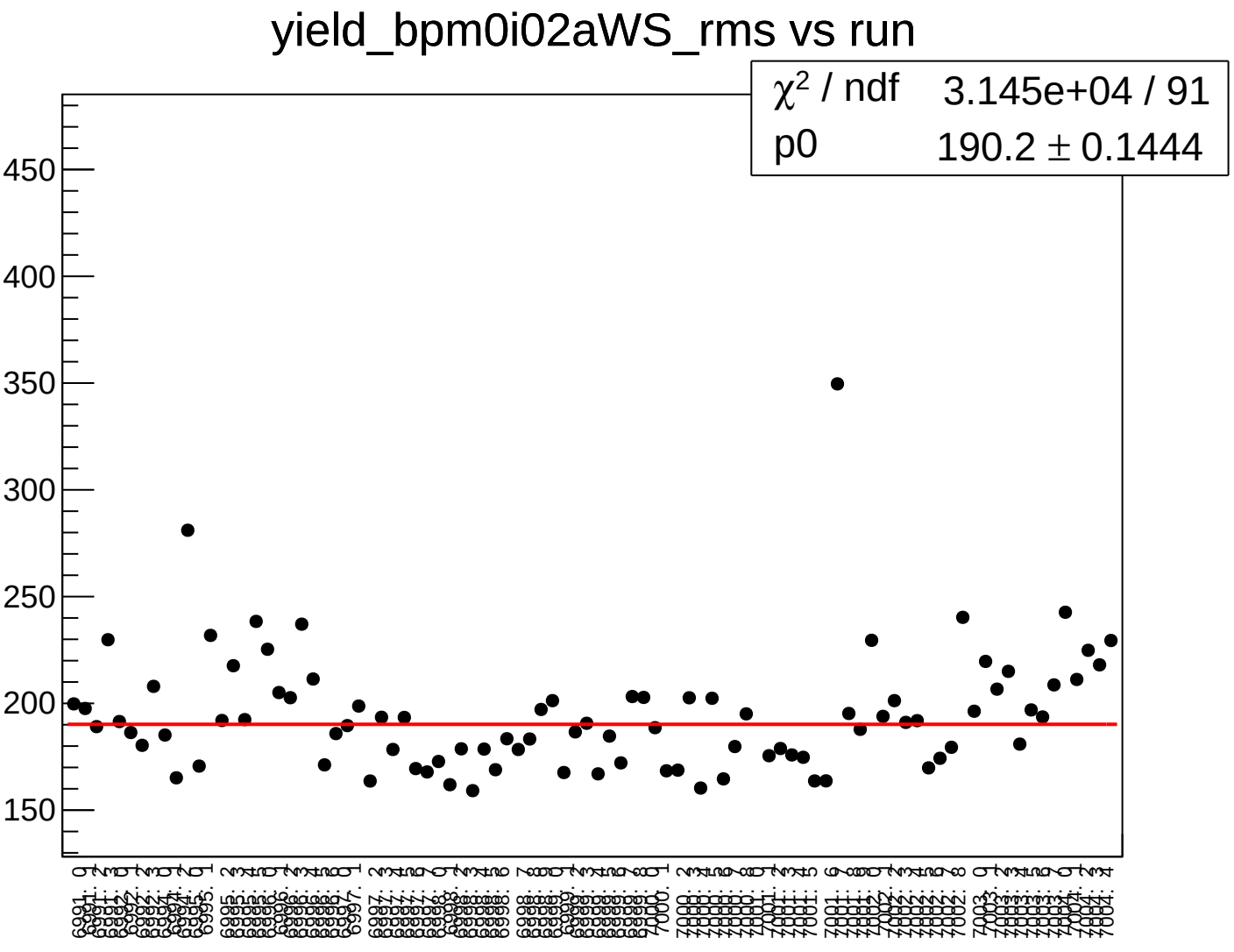

pull1D
Entries 92
Mean 1.172
Std Dev 4.822
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

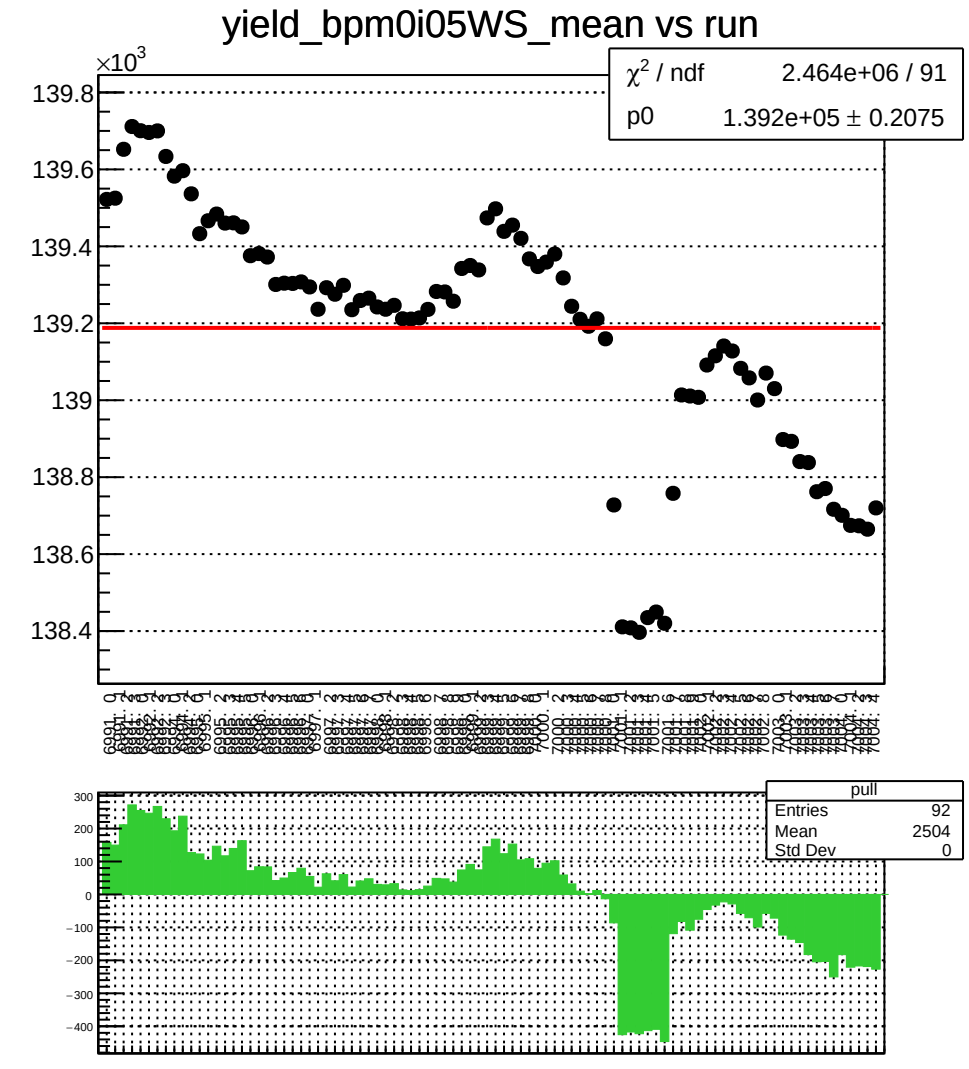

yield_bpm0r05WS_rms vs run
χ² / ndf 9293 / 91
p0 330.4 ± 0.2494
500
450
400
350
300

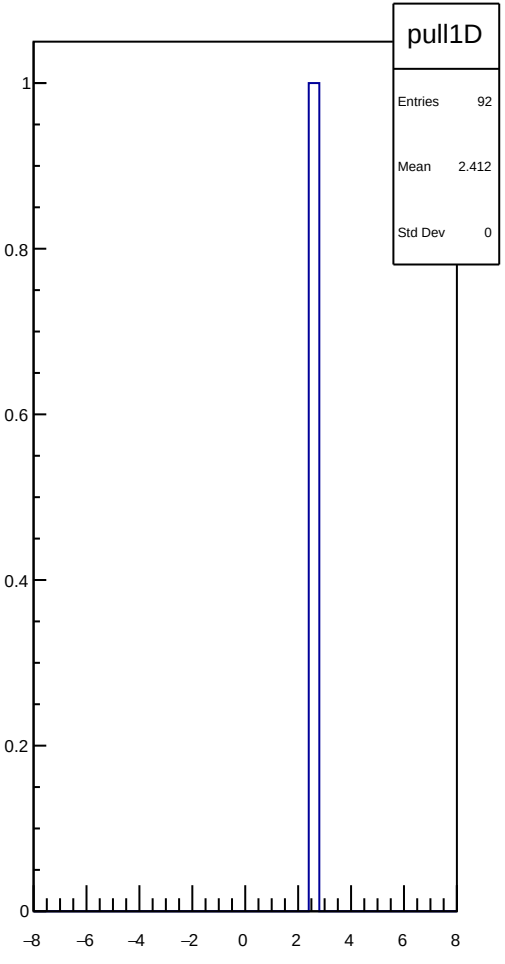

yield_bpm0i02WS_mean vs run
χ² / ndf 8.044e+05 / 91
p0 1.456e+05 ± 0.1898
×10³
145.9
145.8
145.7
145.6
145.5
145.4
145.3
145.2
145.1
145
pull
Entries 92
Mean −1599
Std Dev 0
200
100
0
−100
−200
−300
pull1D
Entries 92
Mean −0.1535
Std Dev 3.687
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

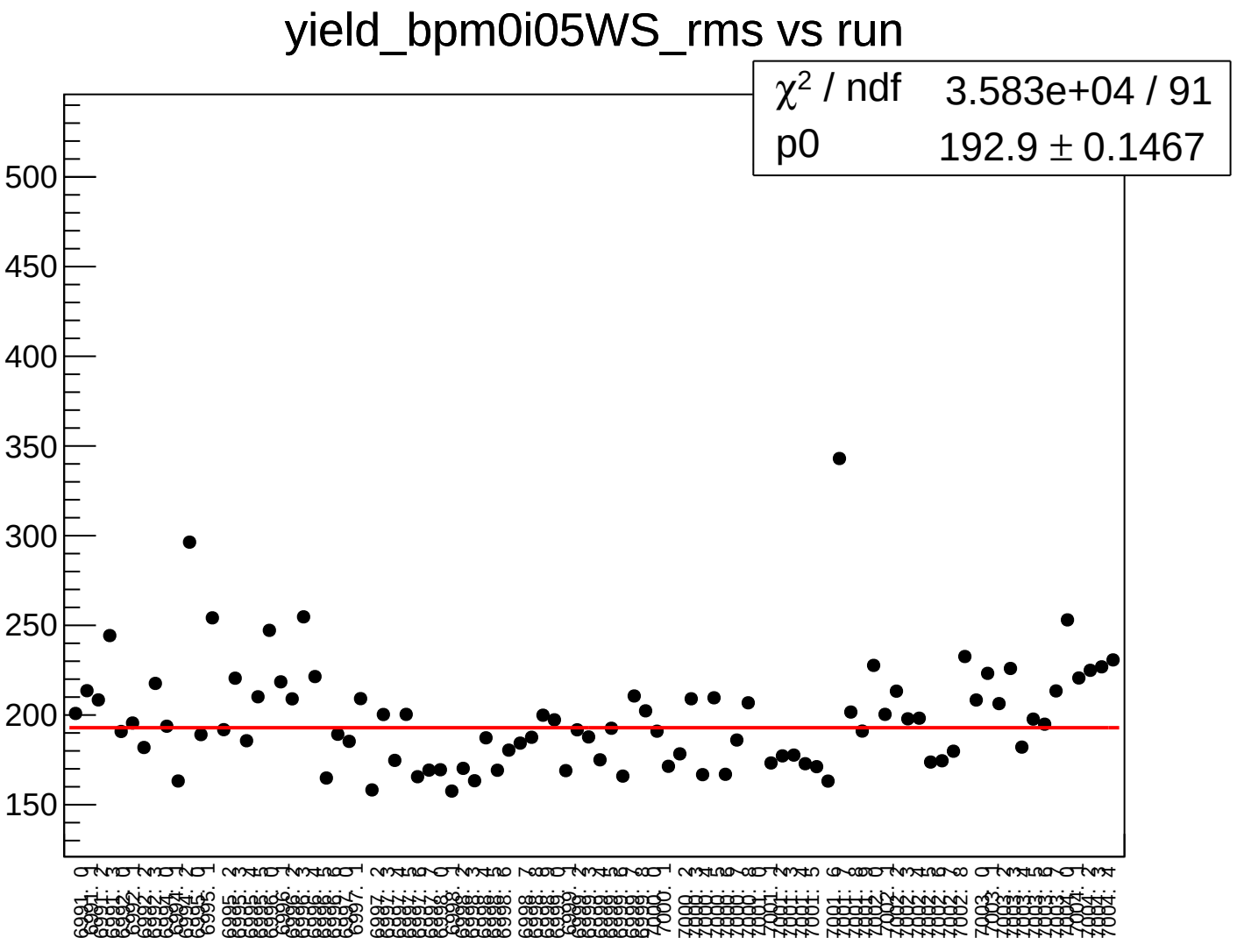

yield_bpm0i02WS_rms vs run
χ² / ndf 2.255e+04 / 91
p0 177.2 ± 0.1342
350
300
250
200
150

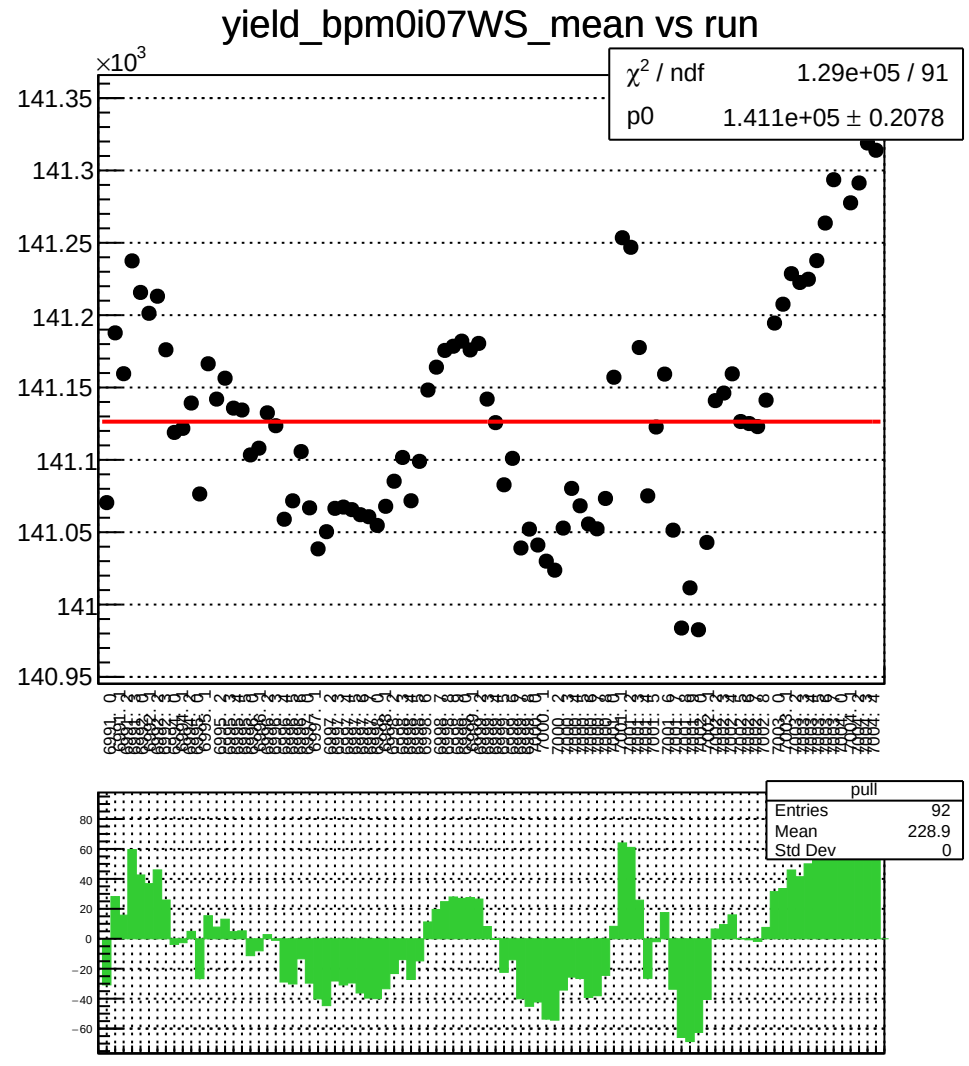

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 2.556e+06 / 91
p0 1.355e+05 ± 0.2043
136.2
136
135.8
135.6
135.4
135.2
135
134.8
134.6
pull
Entries 92
Mean −1258
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 92
Mean 0.07238
Std Dev 3.905
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

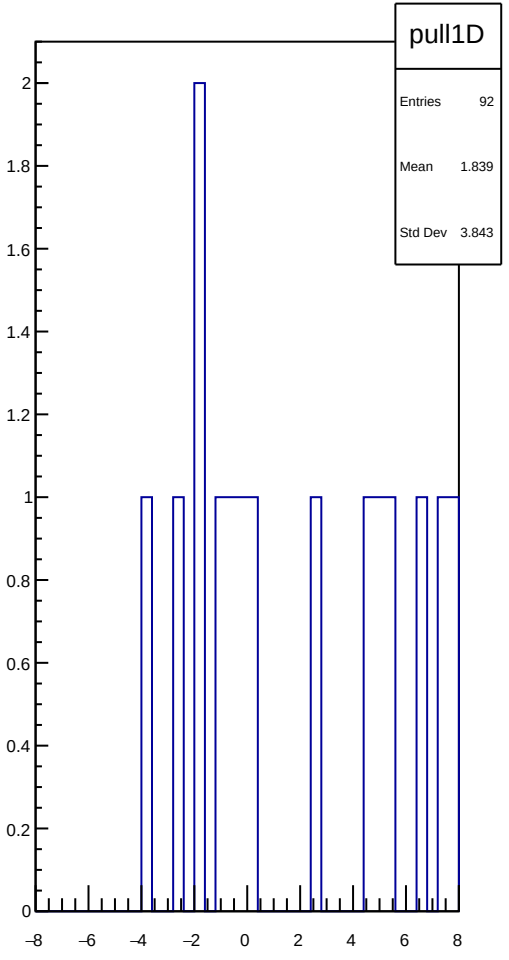

yield_bpm0i02aWS_rms vs run
χ² / ndf 3.145e+04 / 91
p0 190.2 ± 0.1444
450
400
350
300
250
200
150

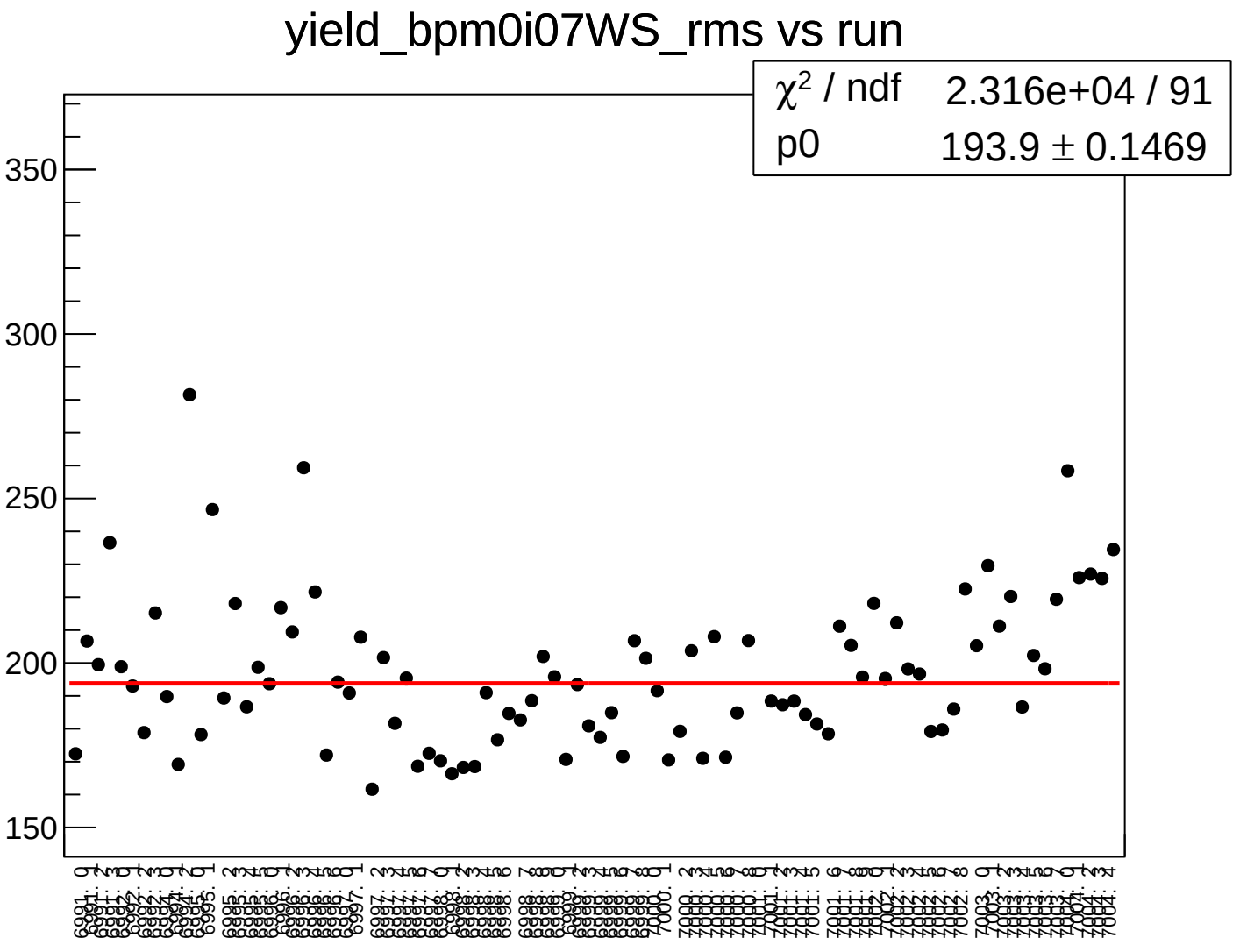

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 2.464e+06 / 91
p0 1.392e+05 ± 0.2075
139.8
139.6
139.4
139.2
139
138.8
138.6
138.4
pull
Entries 92
Mean 2504
Std Dev 0
300
200
100
0
−100
−200
−300
−400

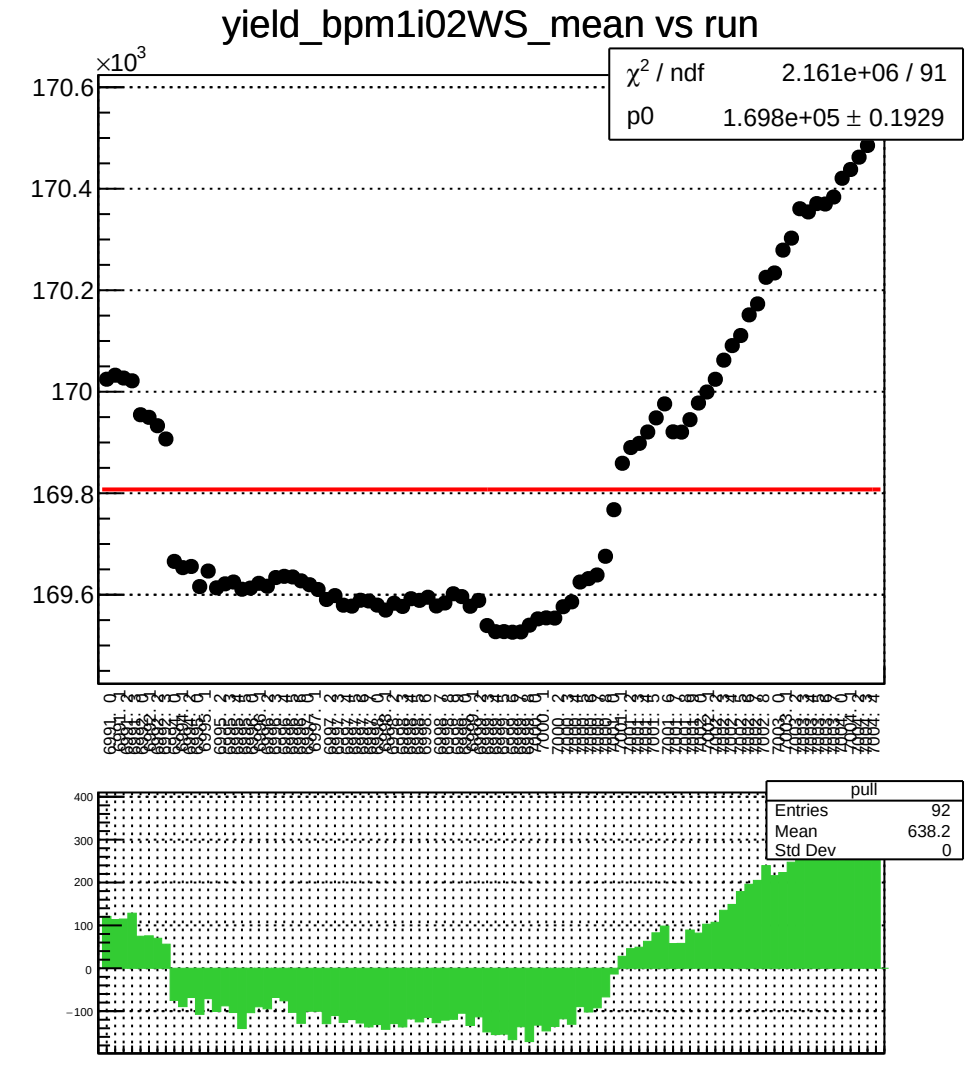

pull1D
Entries 92
Mean 2.412
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

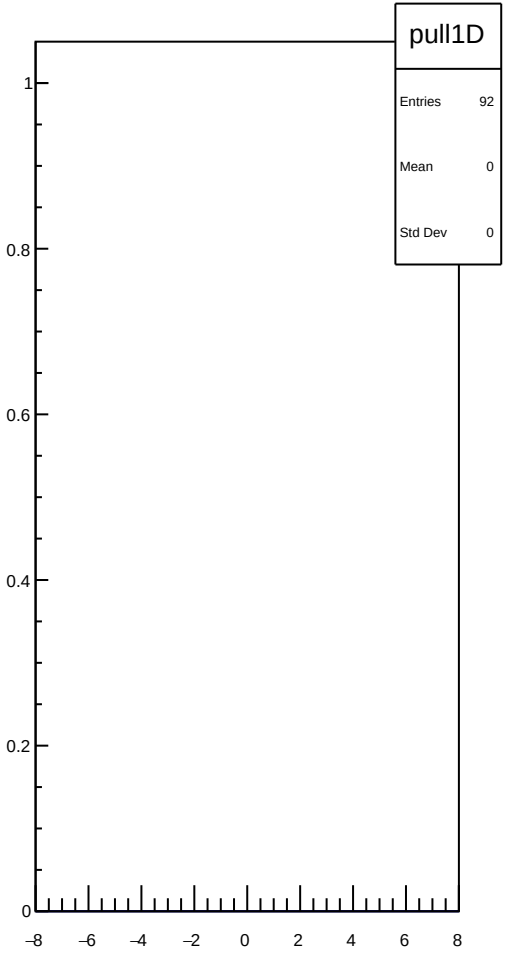

yield_bpm0i05WS_rms vs run
χ² / ndf 3.583e+04 / 91
p0 192.9 ± 0.1467
500
450
400
350
300
250
200
150

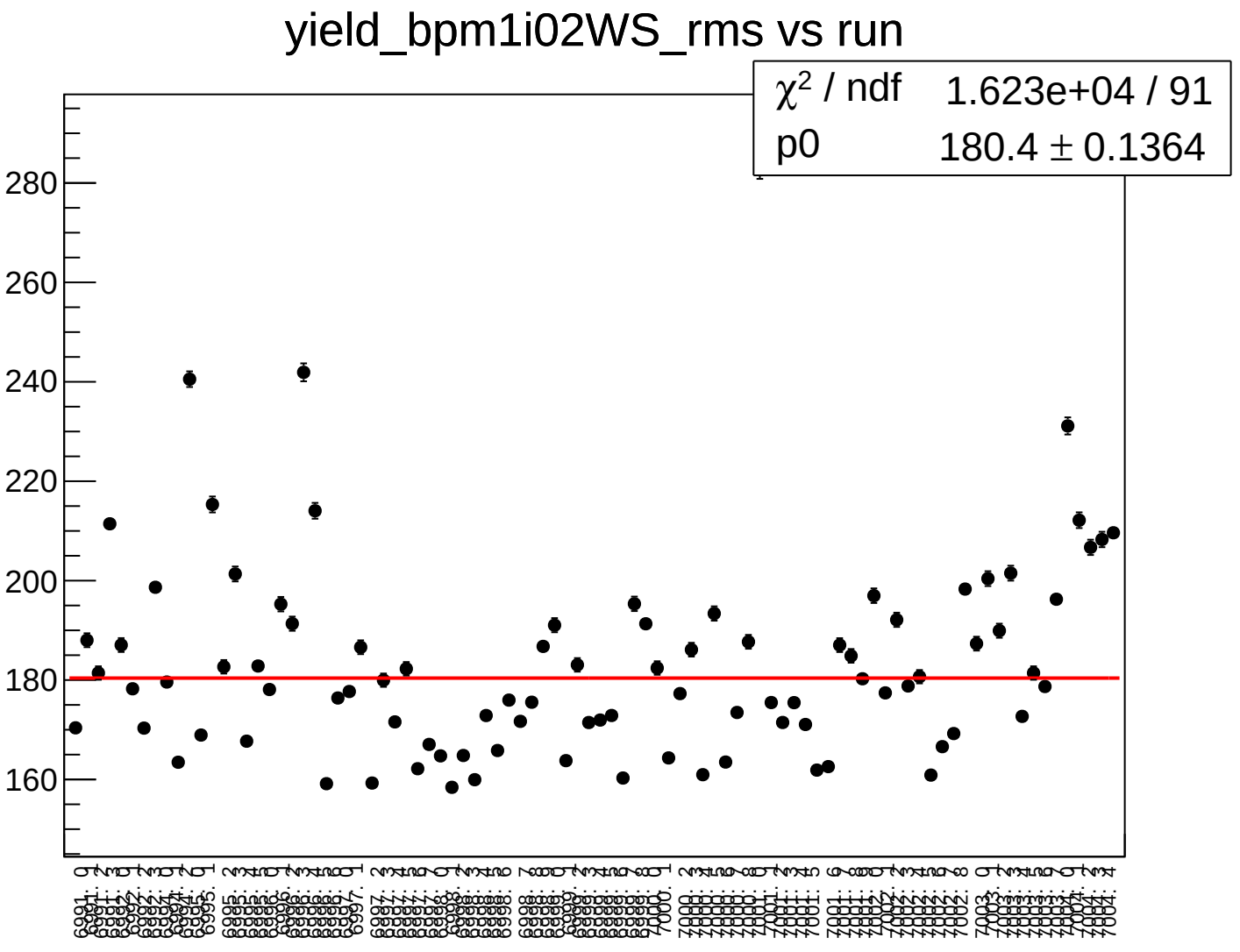

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.29e+05 / 91
p0 1.411e+05 ± 0.2078
141.35
141.3
141.25
141.2
141.15
141.1
141.05
141
140.95
pull
Entries 92
Mean 228.9
Std Dev 0
80
60
40
20
0
−20
−40
−60

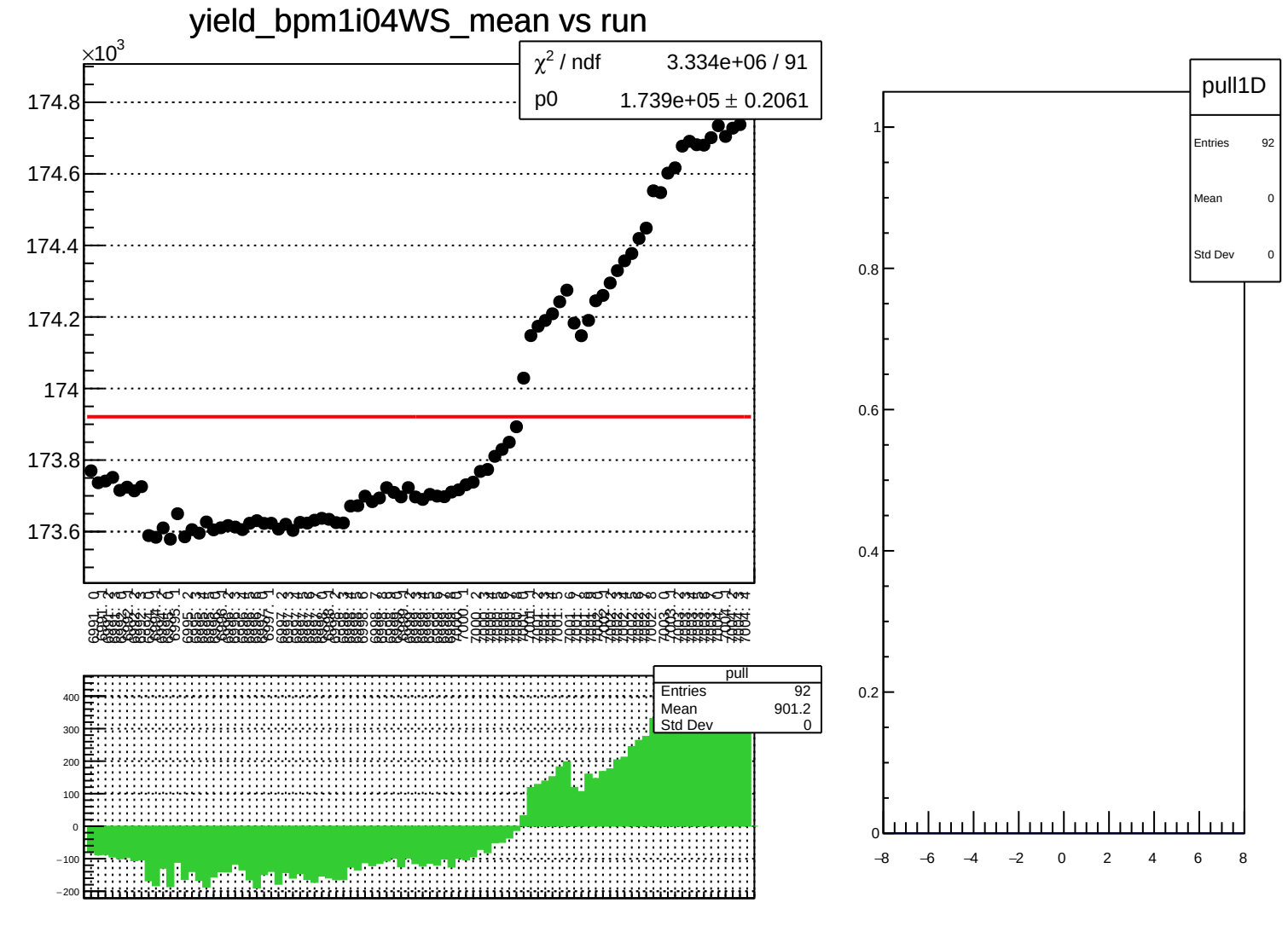

pull1D
Entries 92
Mean 1.839
Std Dev 3.843
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

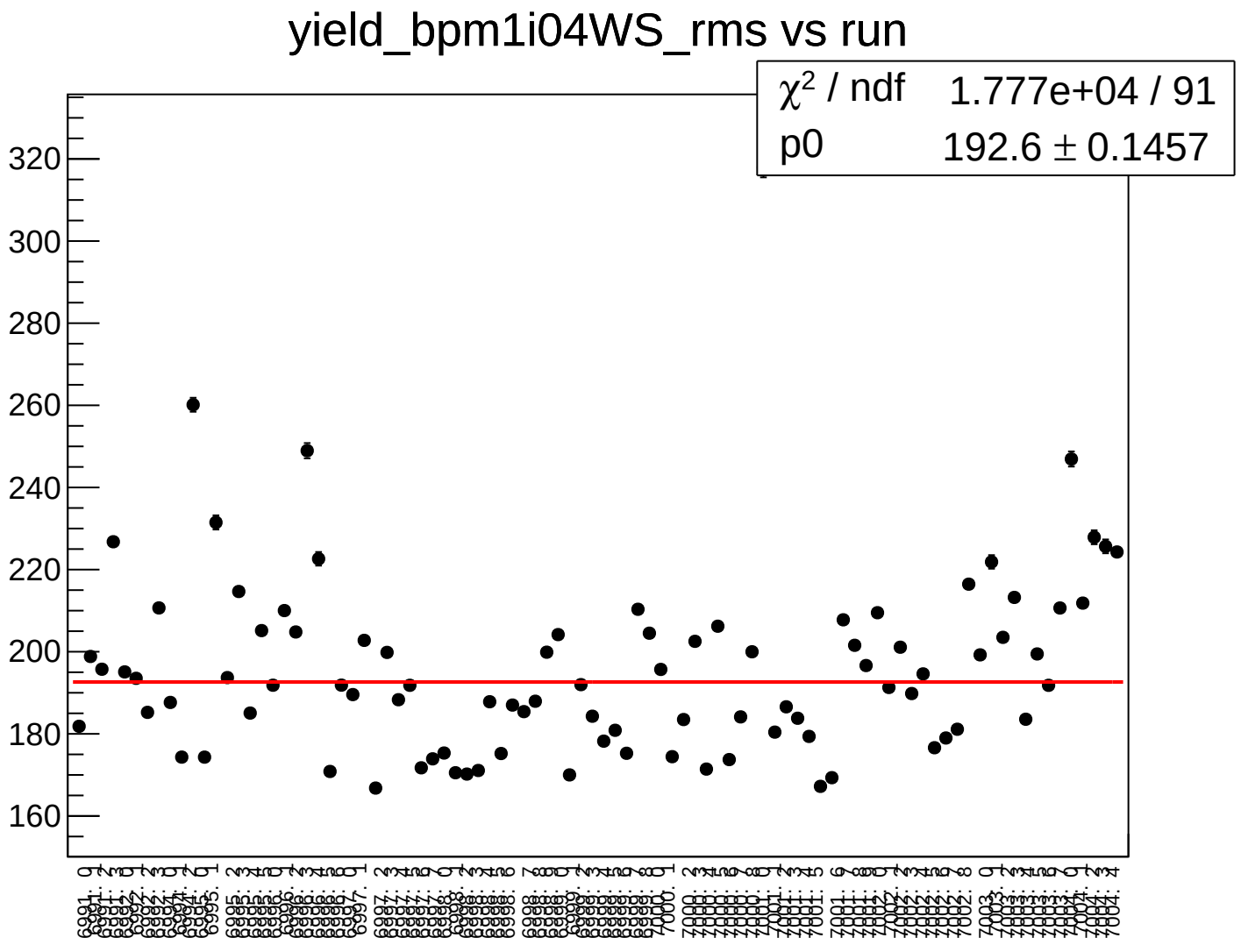

yield_bpm0i07WS_rms vs run
χ² / ndf 2.316e+04 / 91
p0 193.9 ± 0.1469
350
300
250
200
150

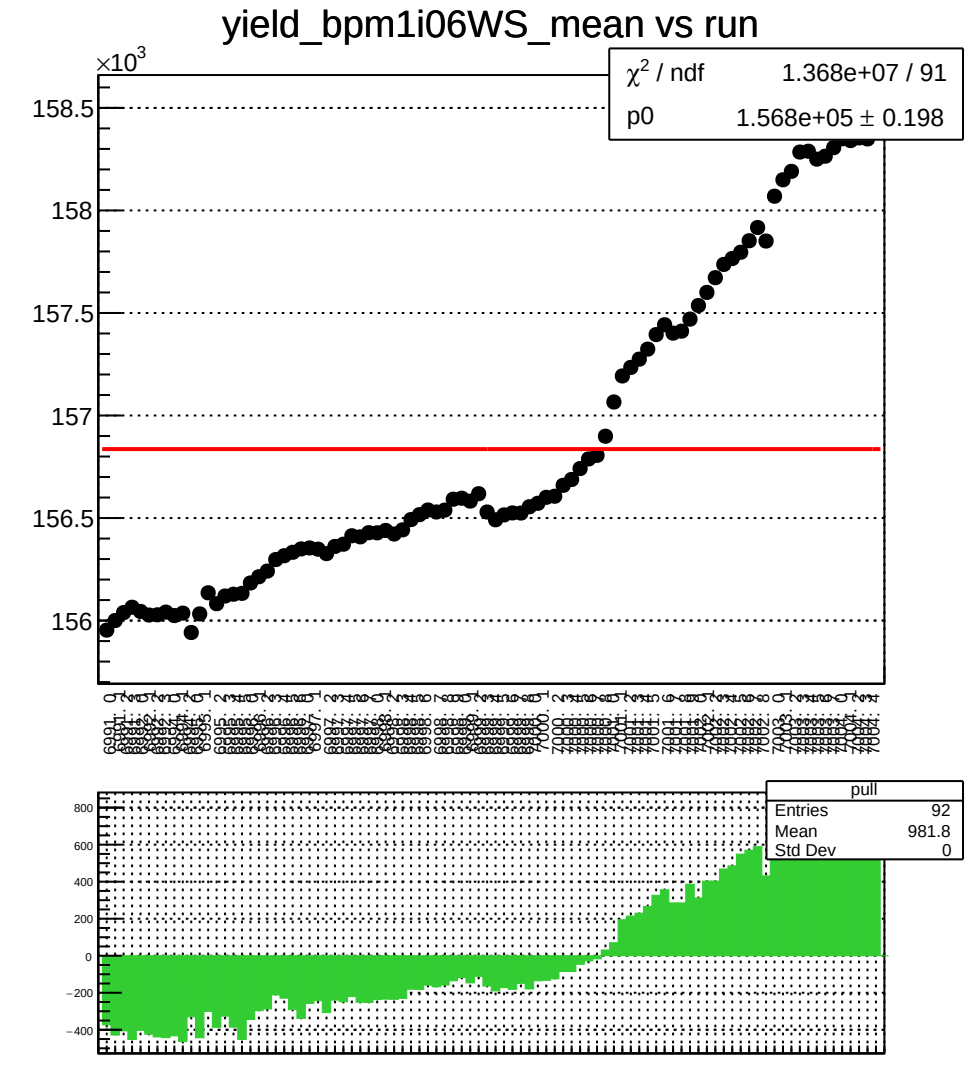

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.161e+06 / 91
p0 1.698e+05 ± 0.1929
170.6
170.4
170.2
170
169.8
169.6
pull
Entries 92
Mean 638.2
Std Dev 0
400
300
200
100
0
−100

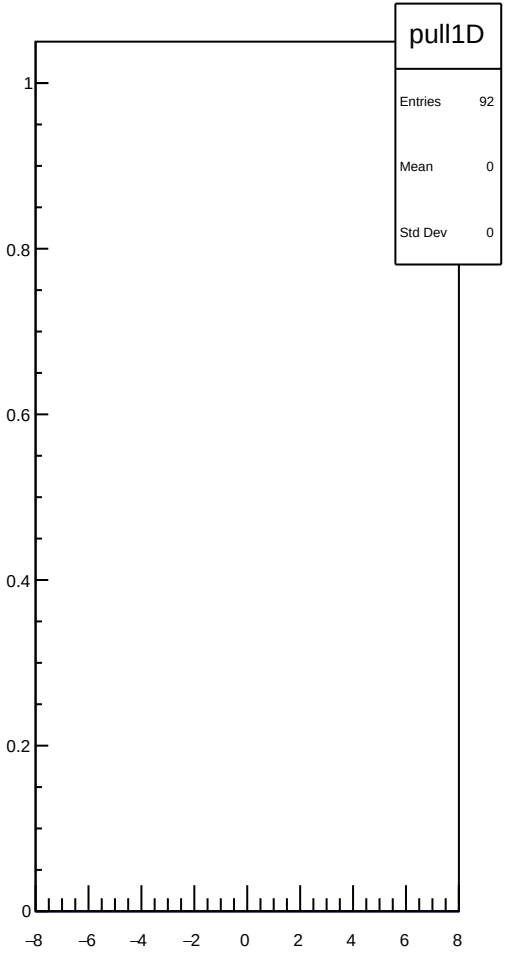

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

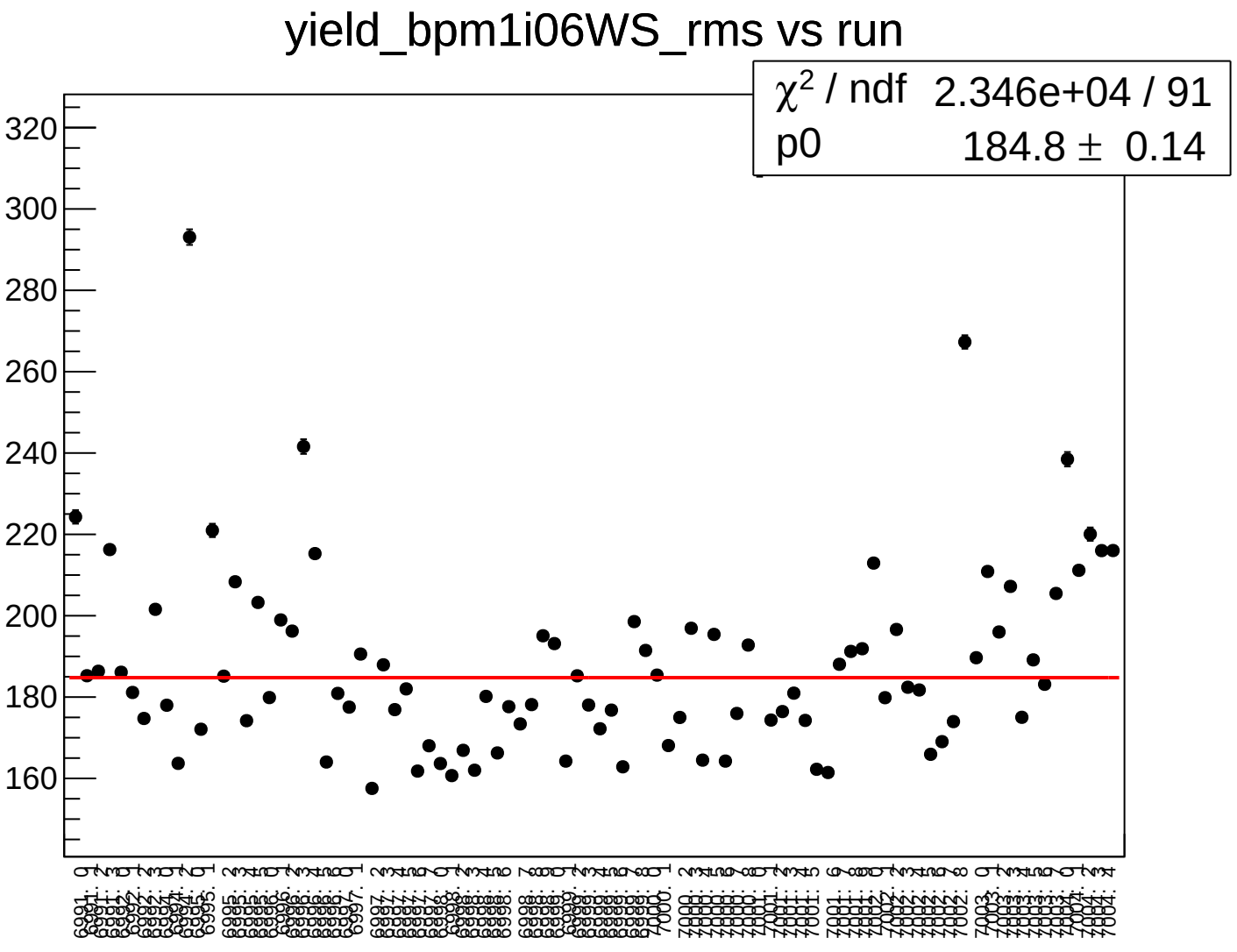

yield_bpm1i02WS_rms vs run
χ² / ndf 1.623e+04 / 91
p0 180.4 ± 0.1364
280
260
240
220
200
180
160

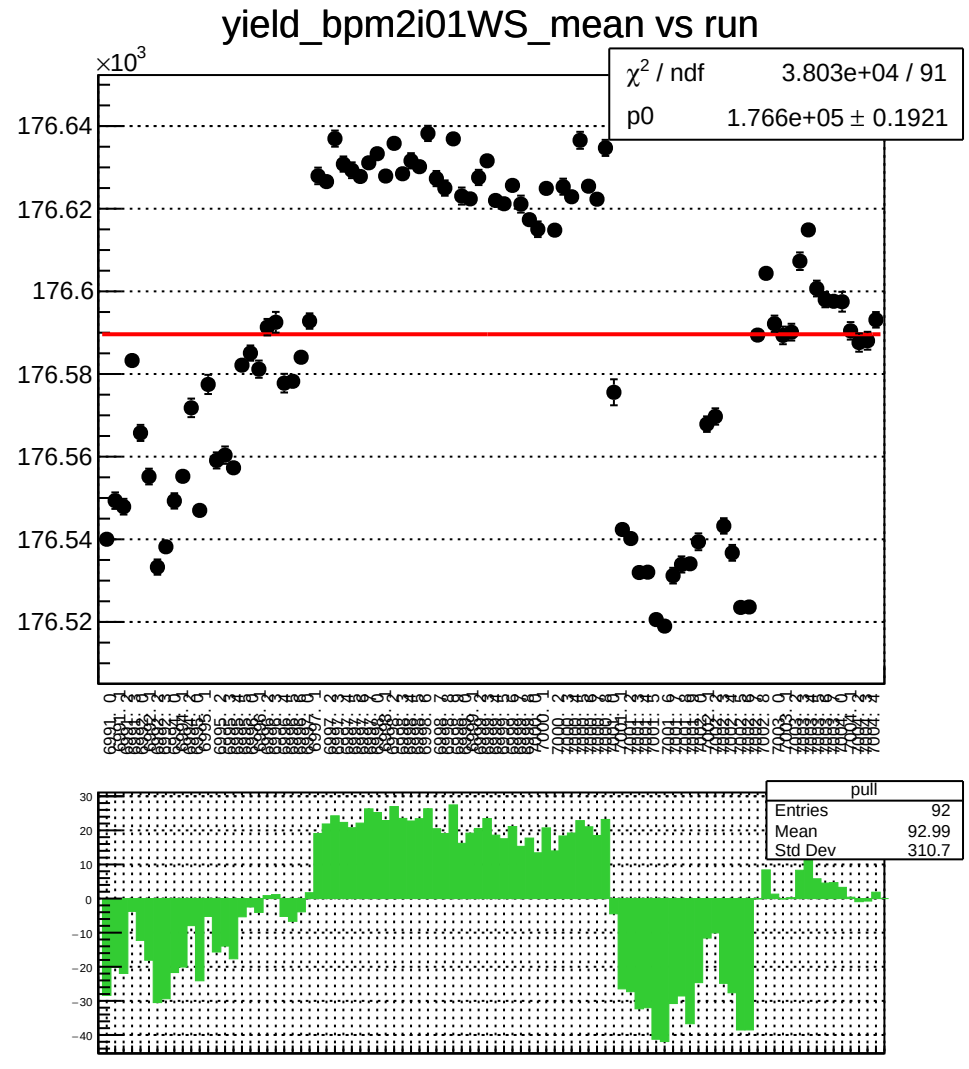

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 3.334e+06 / 91
p0 1.739e+05 ± 0.2061
174.8
174.6
174.4
174.2
174
173.8
173.6
pull
Entries 92
Mean 901.2
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

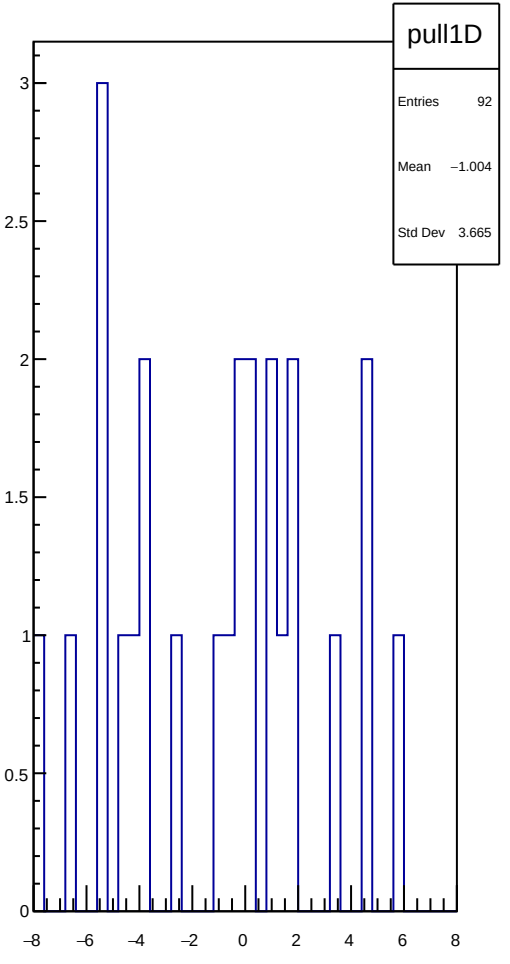

yield_bpm1i04WS_rms vs run
χ² / ndf 1.777e+04 / 91
p0 192.6 ± 0.1457
320
300
280
260
240
220
200
180
160

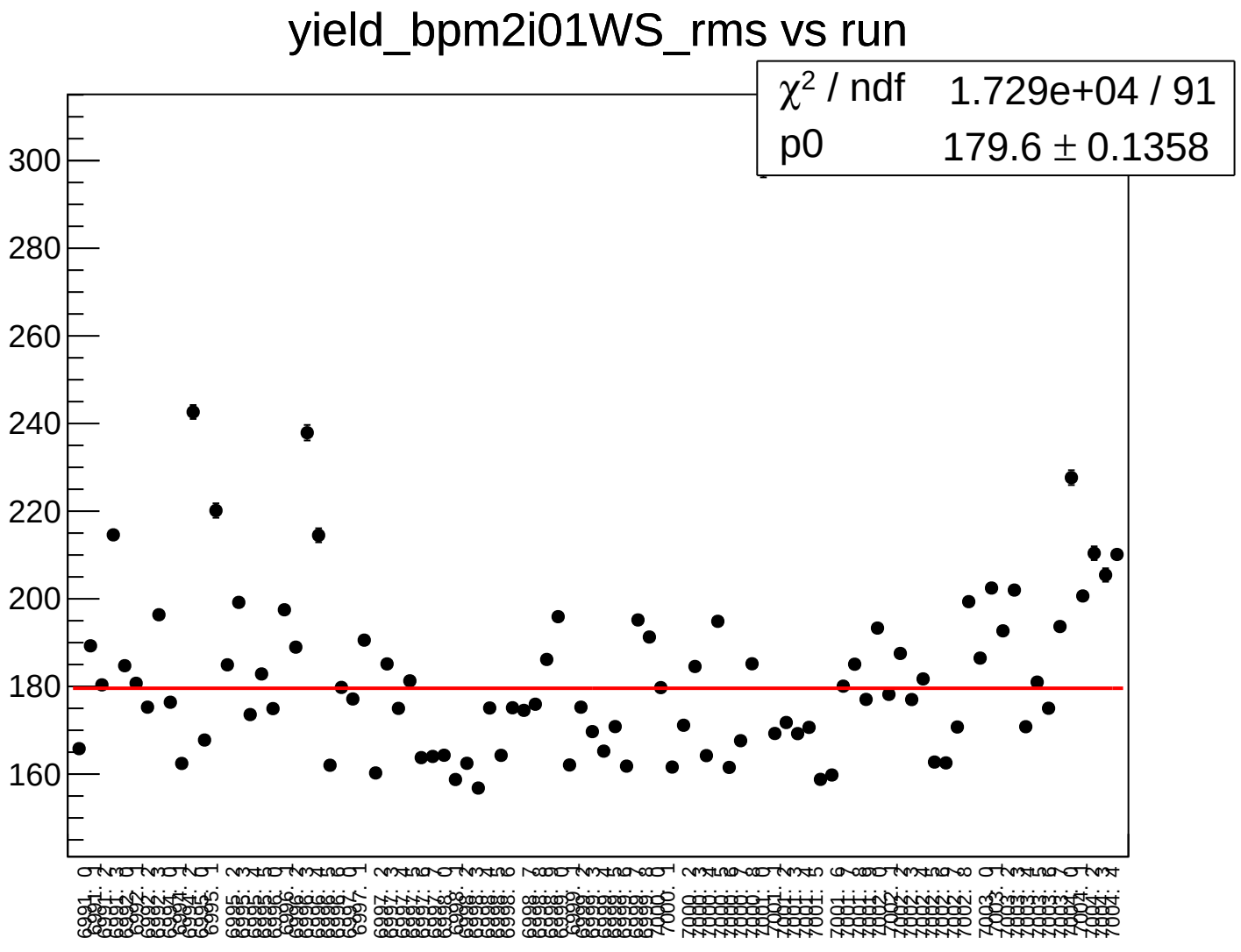

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.368e+07 / 91
p0 1.568e+05 ± 0.198
158.5
158
157.5
157
156.5
156
pull
Entries 92
Mean 981.8
Std Dev 0
800
600
400
200
0
−200
−400

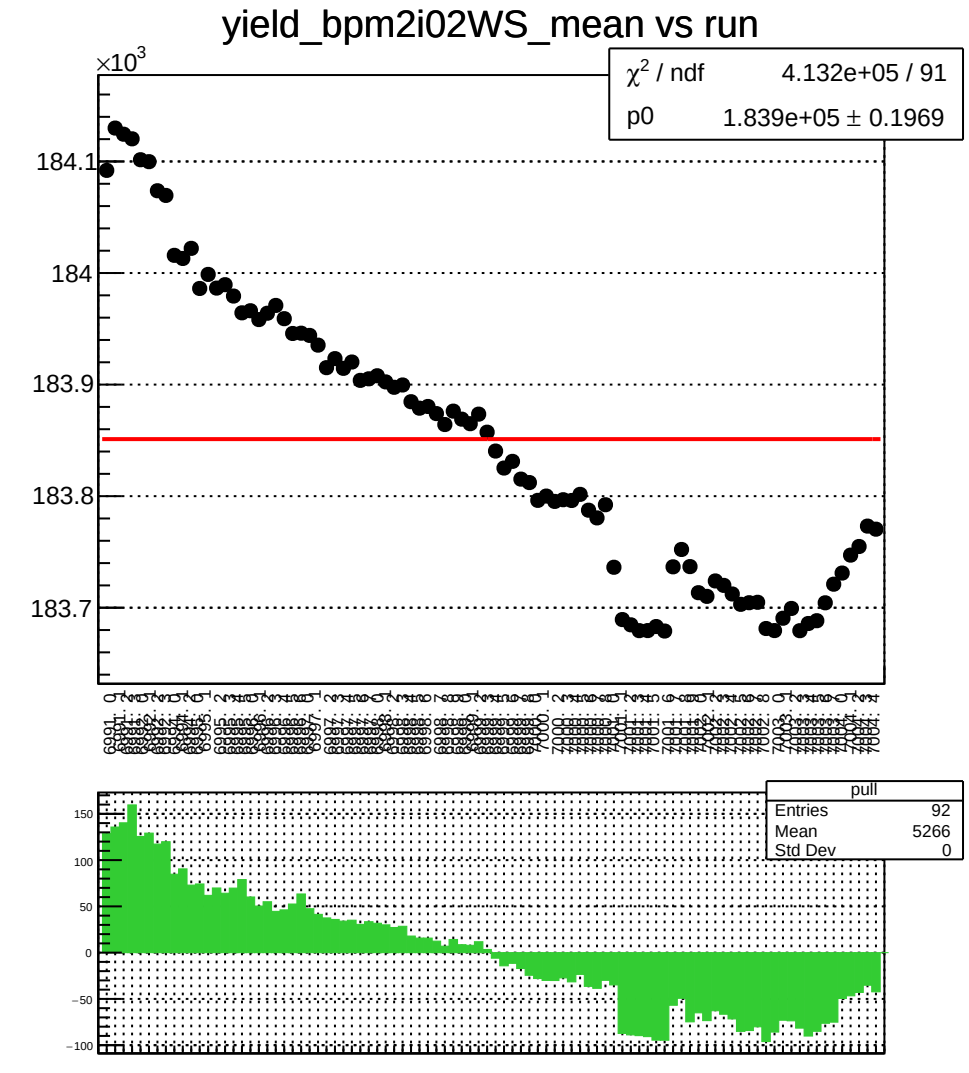

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

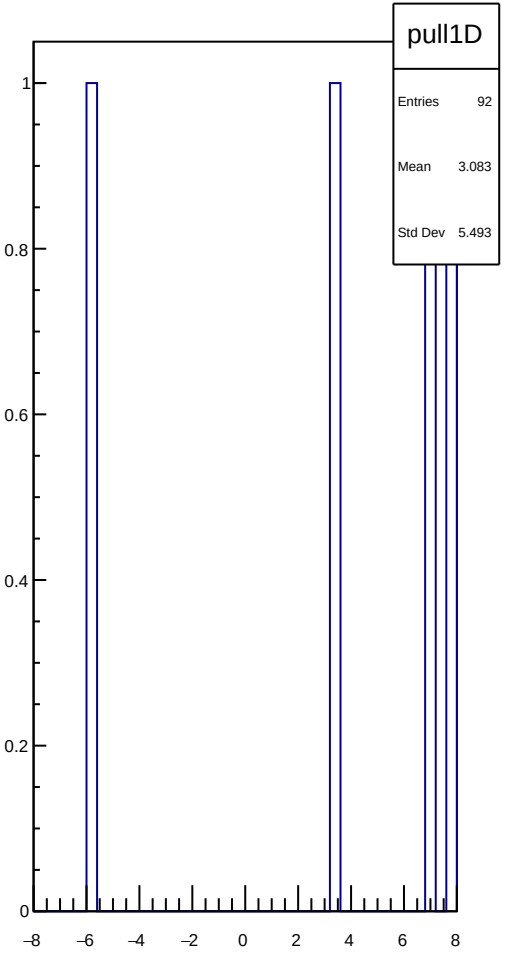

yield_bpm1i06WS_rms vs run
χ² / ndf 2.346e+04 / 91
p0 184.8 ± 0.14
320
300
280
260
240
220
200
180
160

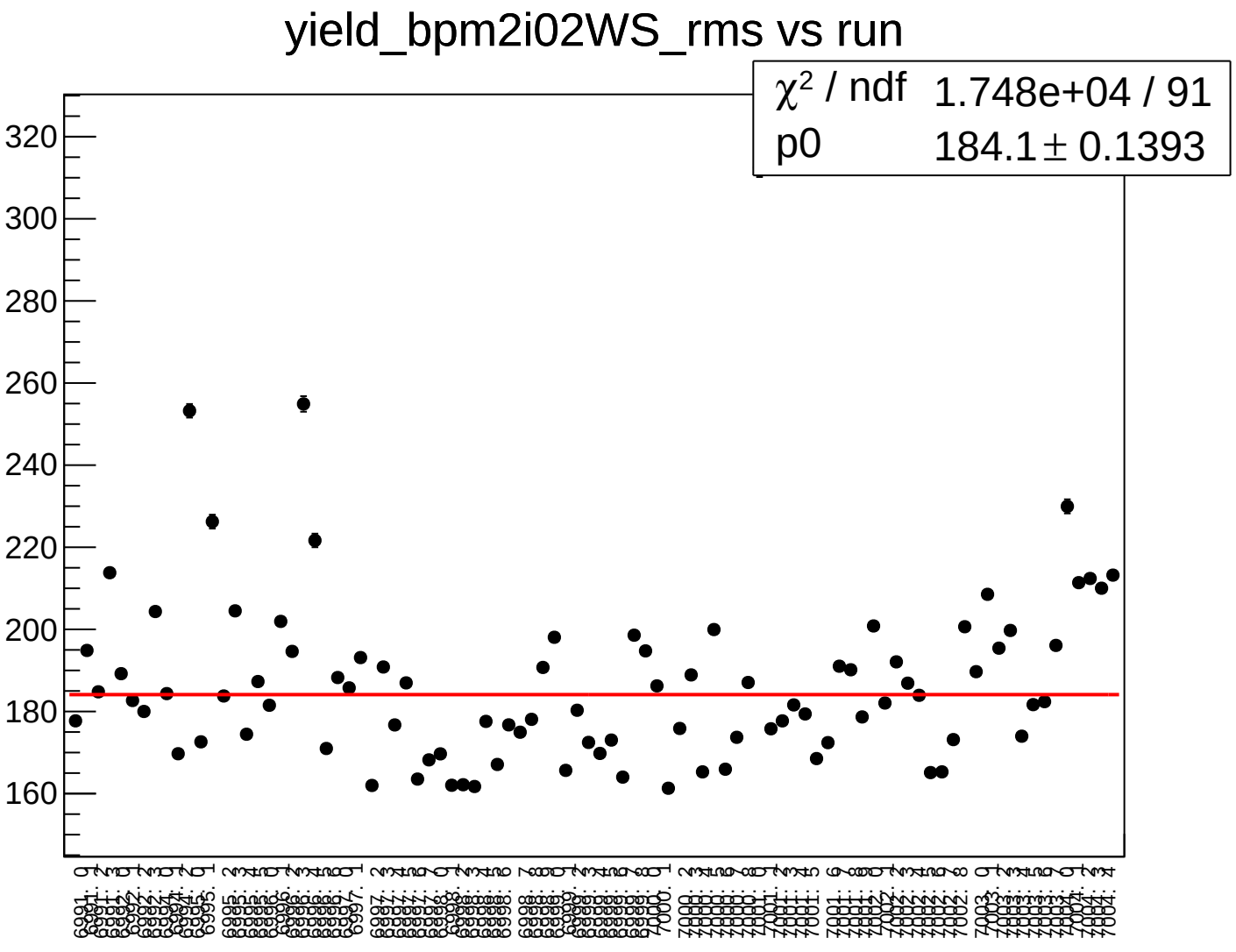

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3.803e+04 / 91
p0 1.766e+05 ± 0.1921
176.64
176.62
176.6
176.58
176.56
176.54
176.52
pull
Entries 92
Mean 92.99
Std Dev 310.7
30
20
10
0
−10
−20
−30
−40

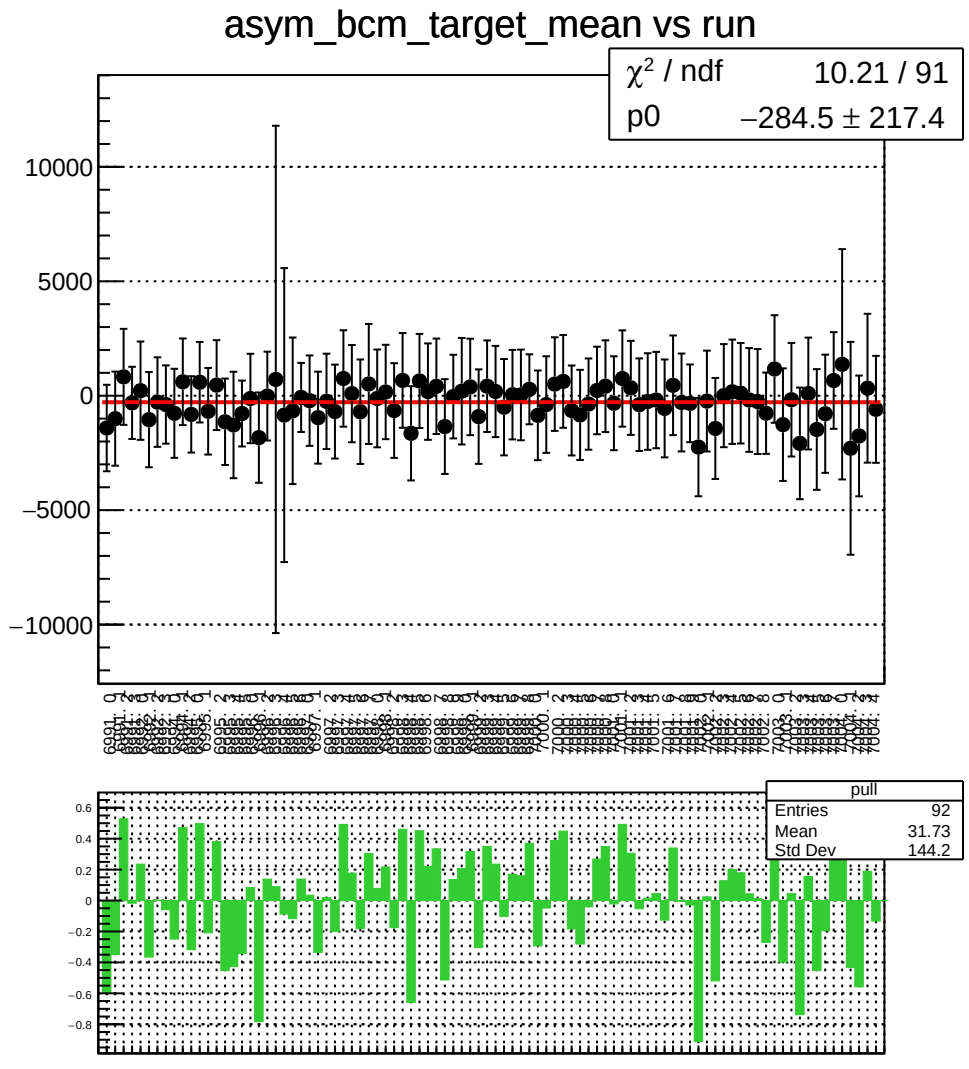

pull1D
Entries 92
Mean −1.004
Std Dev 3.665
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

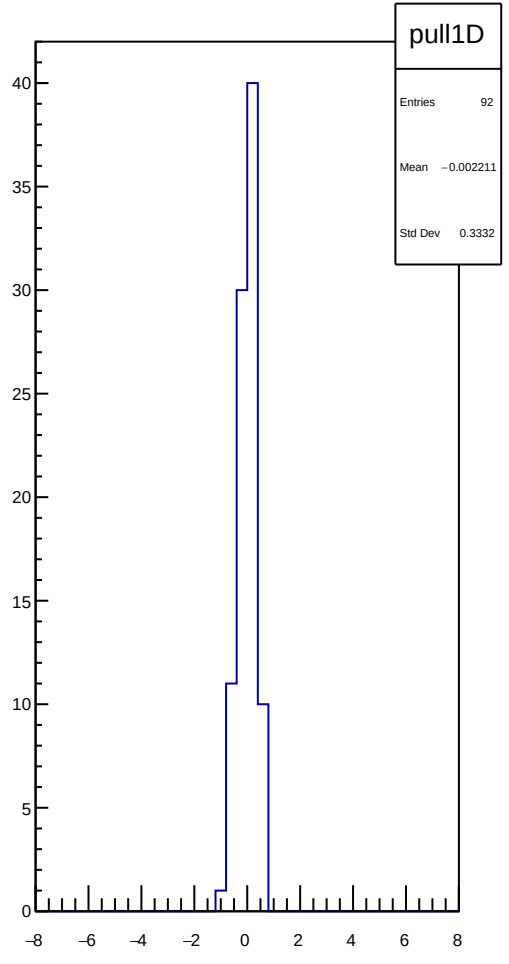

yield_bpm2i01WS_rms vs run
χ² / ndf 1.729e+04 / 91
p0 179.6 ± 0.1358
300
280
260
240
220
200
180
160

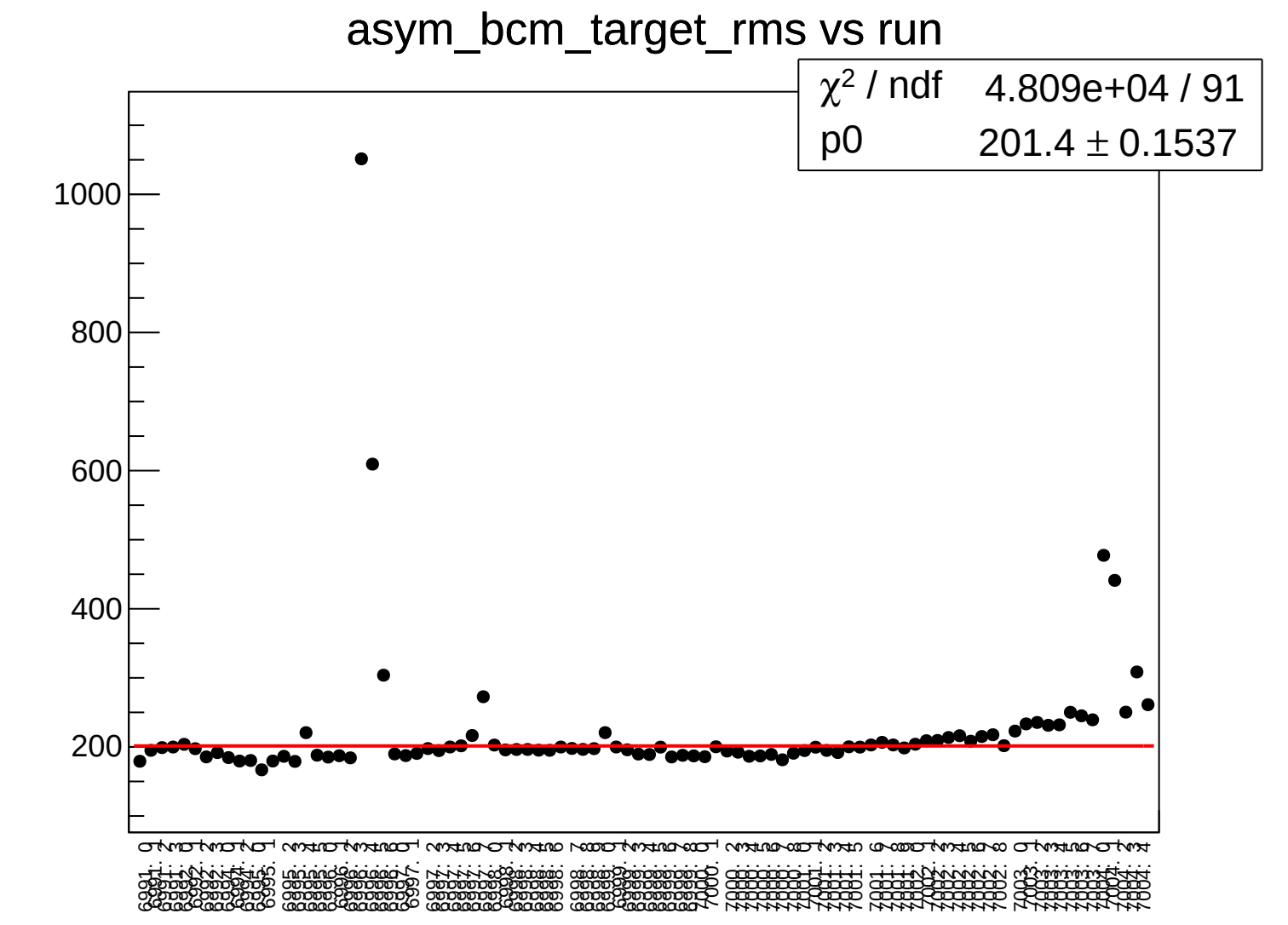

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 4.132e+05 / 91
p0 1.839e+05 ± 0.1969
184.1
184
183.9
183.8
183.7
pull
Entries 92
Mean 5266
Std Dev 0
150
100
50
0
−50
−100

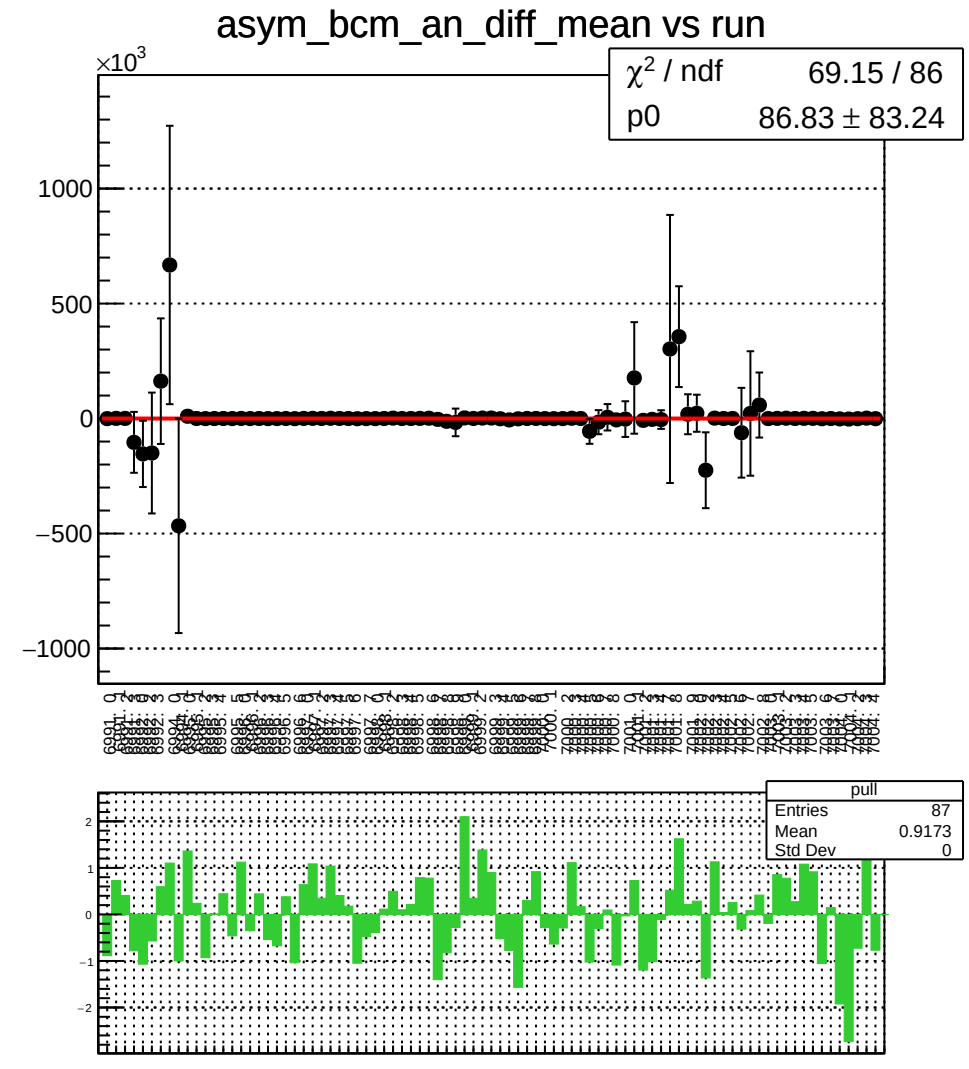

pull1D
Entries 92
Mean 3.083
Std Dev 5.493
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

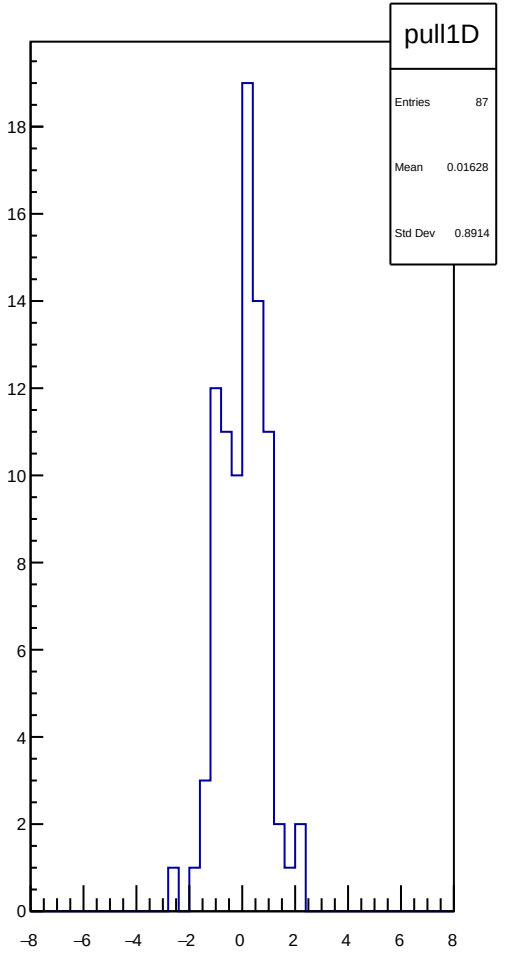

yield_bpm2i02WS_rms vs run
χ² / ndf 1.748e+04 / 91
p0 184.1 ± 0.1393
320
300
280
260
240
220
200
180
160

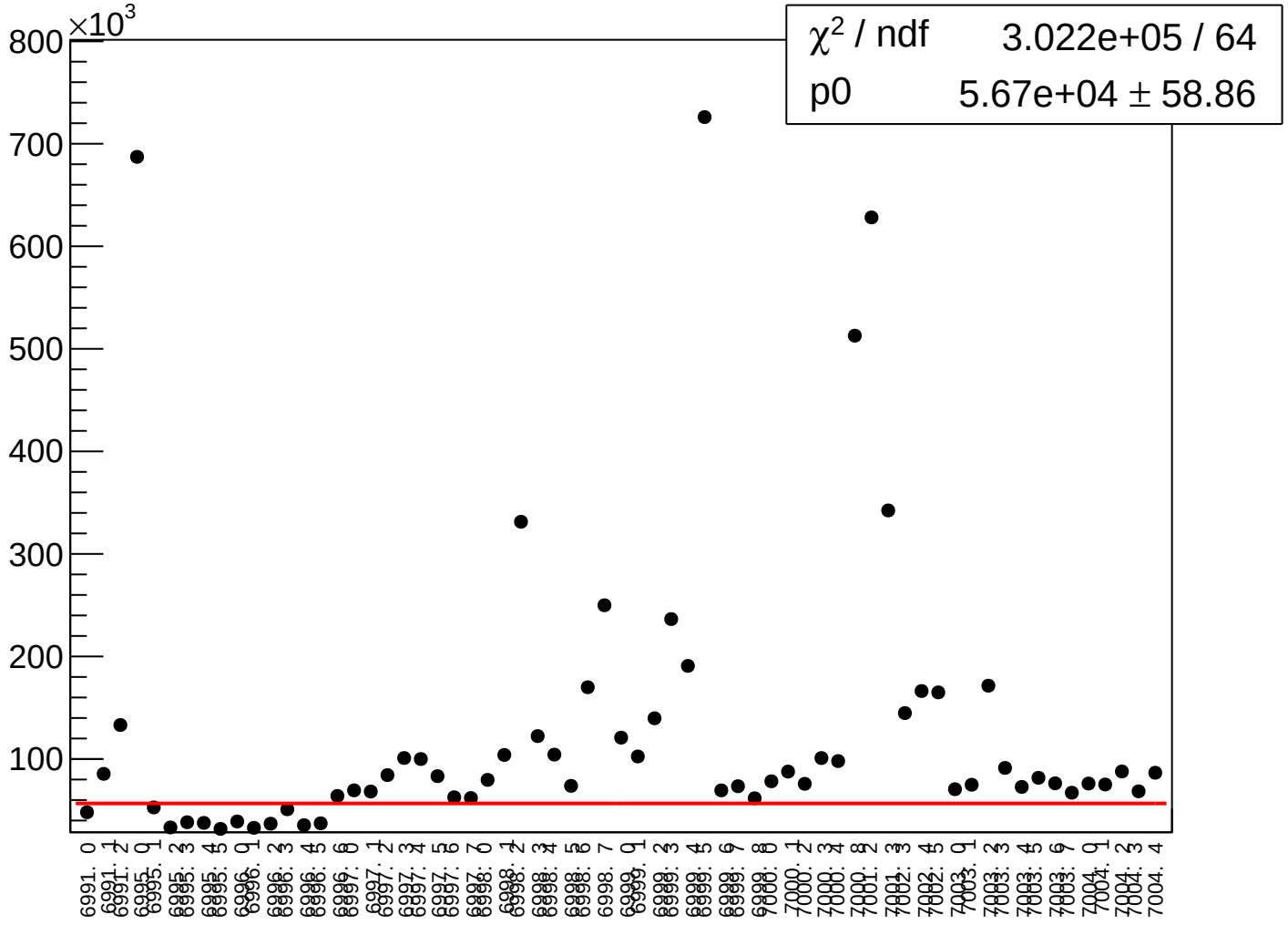

asym_bcm_target_mean vs run
χ² / ndf 10.21 / 91
p0 −284.5 ± 217.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 31.73
Std Dev 144.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

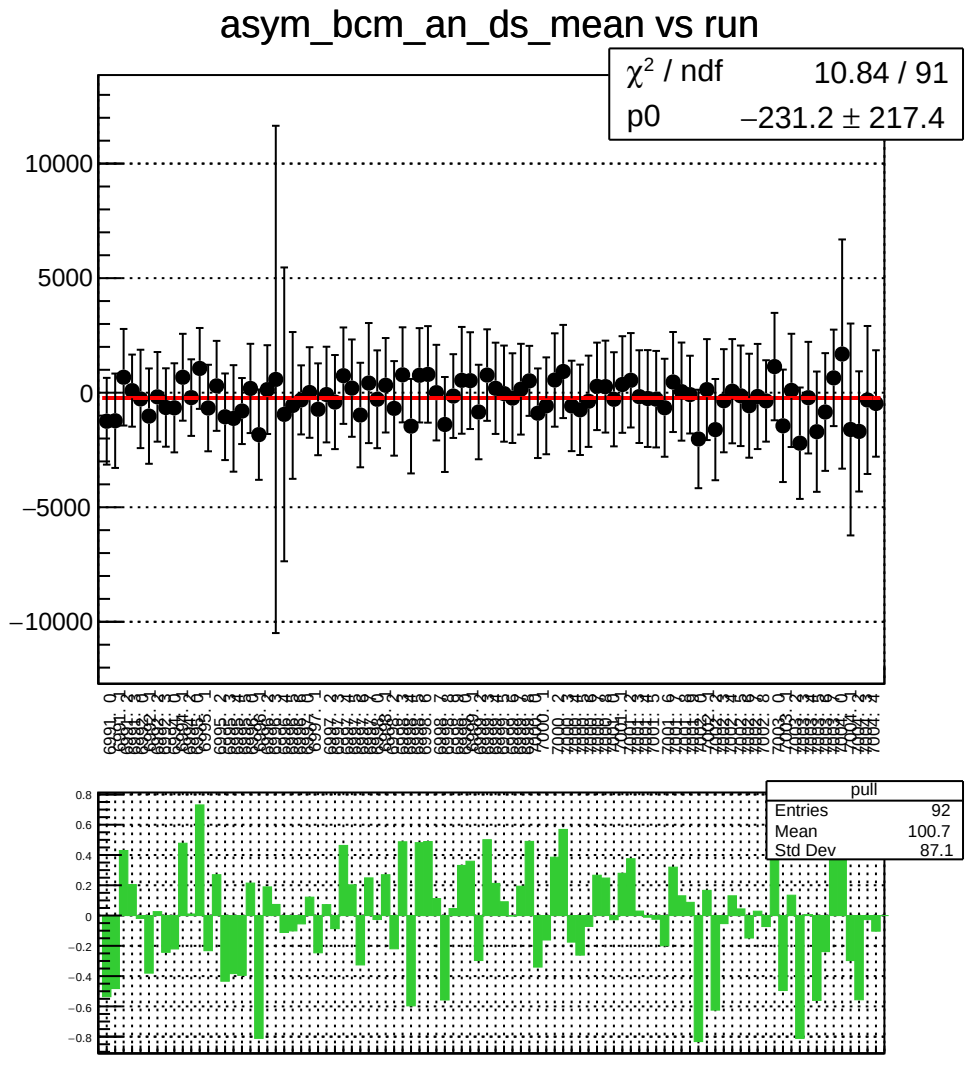

pull1D
Entries 92
Mean −0.002211
Std Dev 0.3332
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

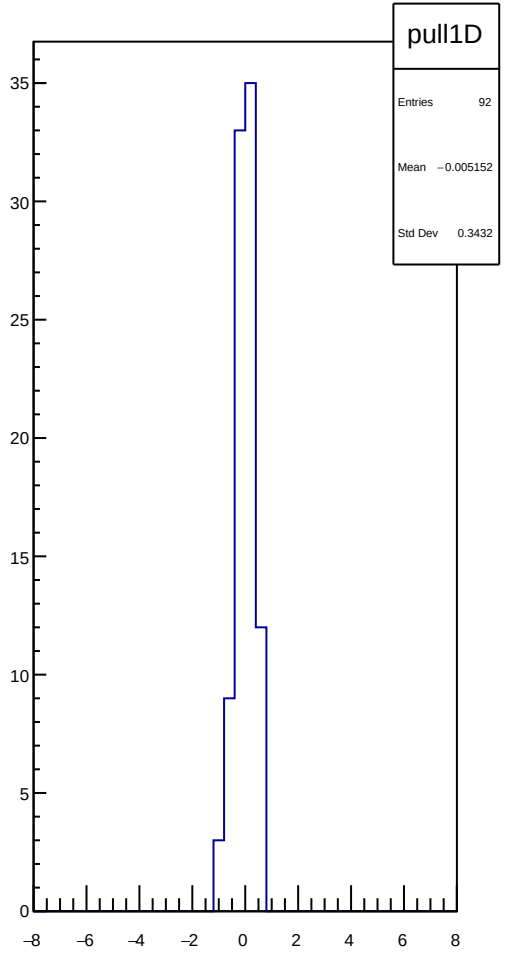

asym_bcm_target_rms vs run
χ² / ndf 4.809e+04 / 91
p0 201.4 ± 0.1537
1000
800
600
400
200

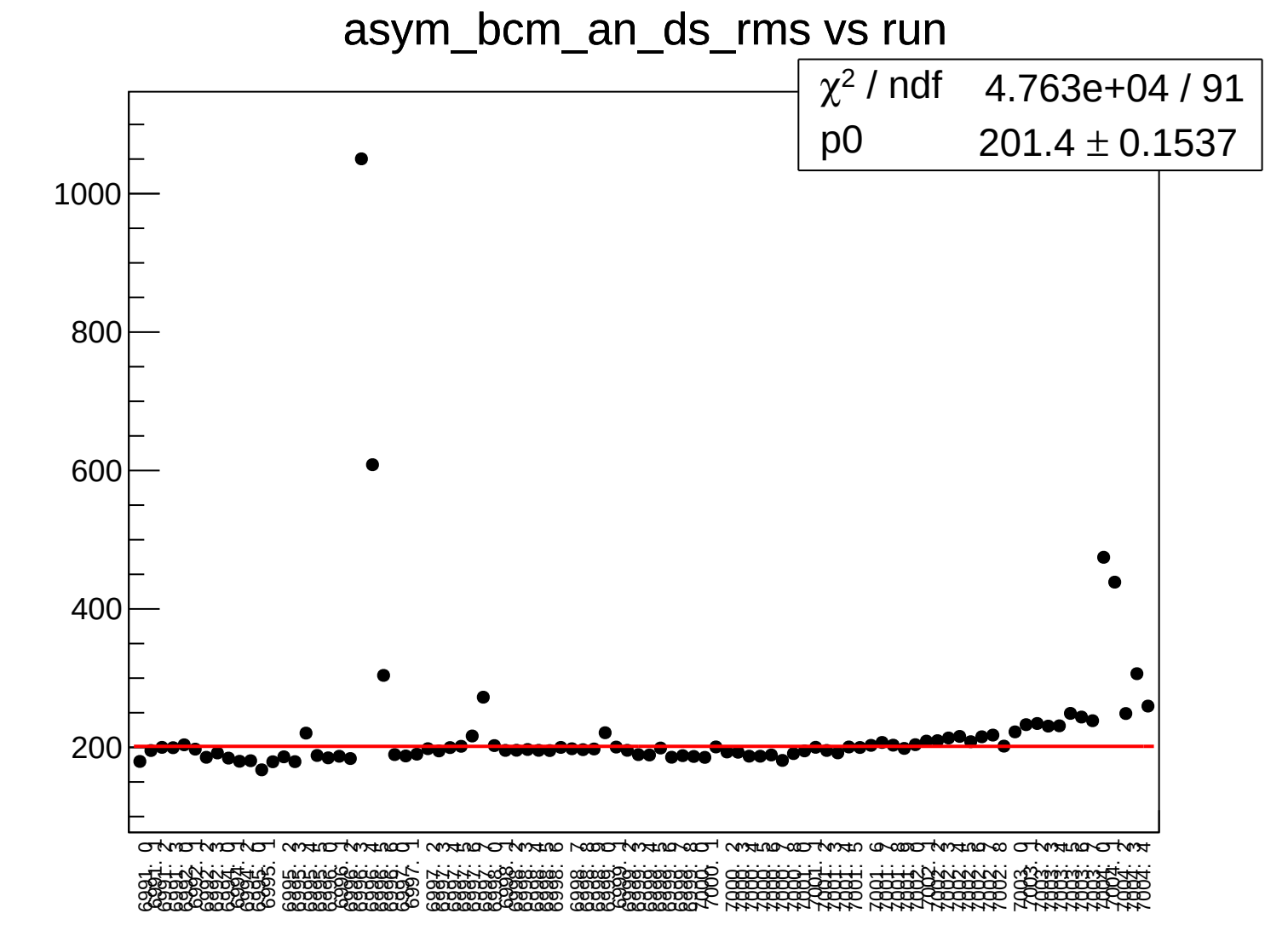

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 69.15 / 86
p0 86.83 ± 83.24
1000
500
0
−500
−1000
pull
Entries 87
Mean 0.9173
Std Dev 0
2
1
0
−1
−2

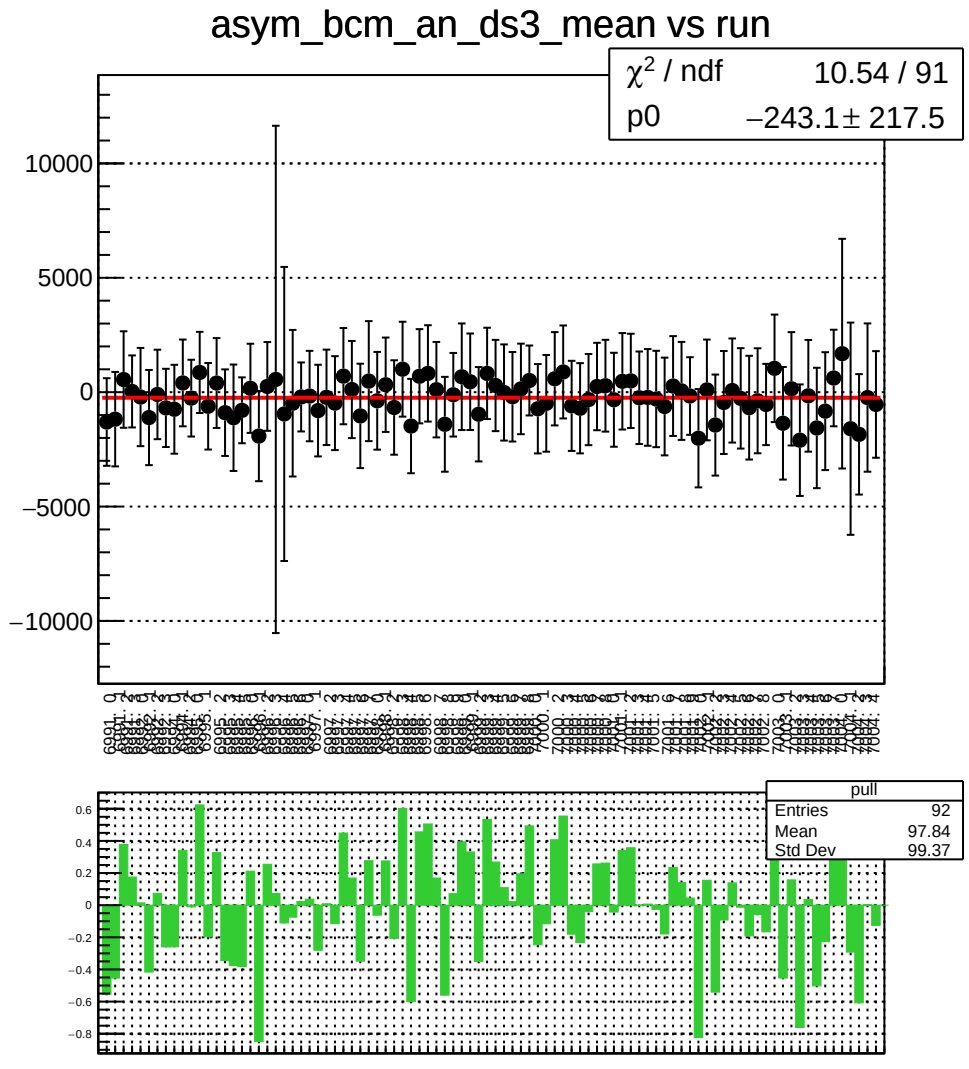

pull1D
Entries 87
Mean 0.01628
Std Dev 0.8914
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

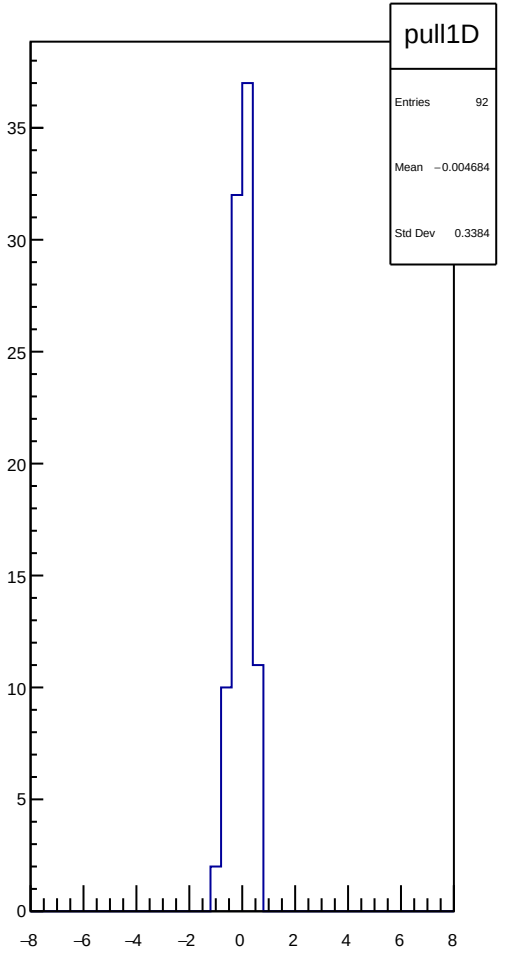

asym_bcm_an_diff_rms vs run
×10^3
800
700
600
500
400
300
200
100
χ² / ndf 3.022e+05 / 64
p0 5.67e+04 ± 58.86

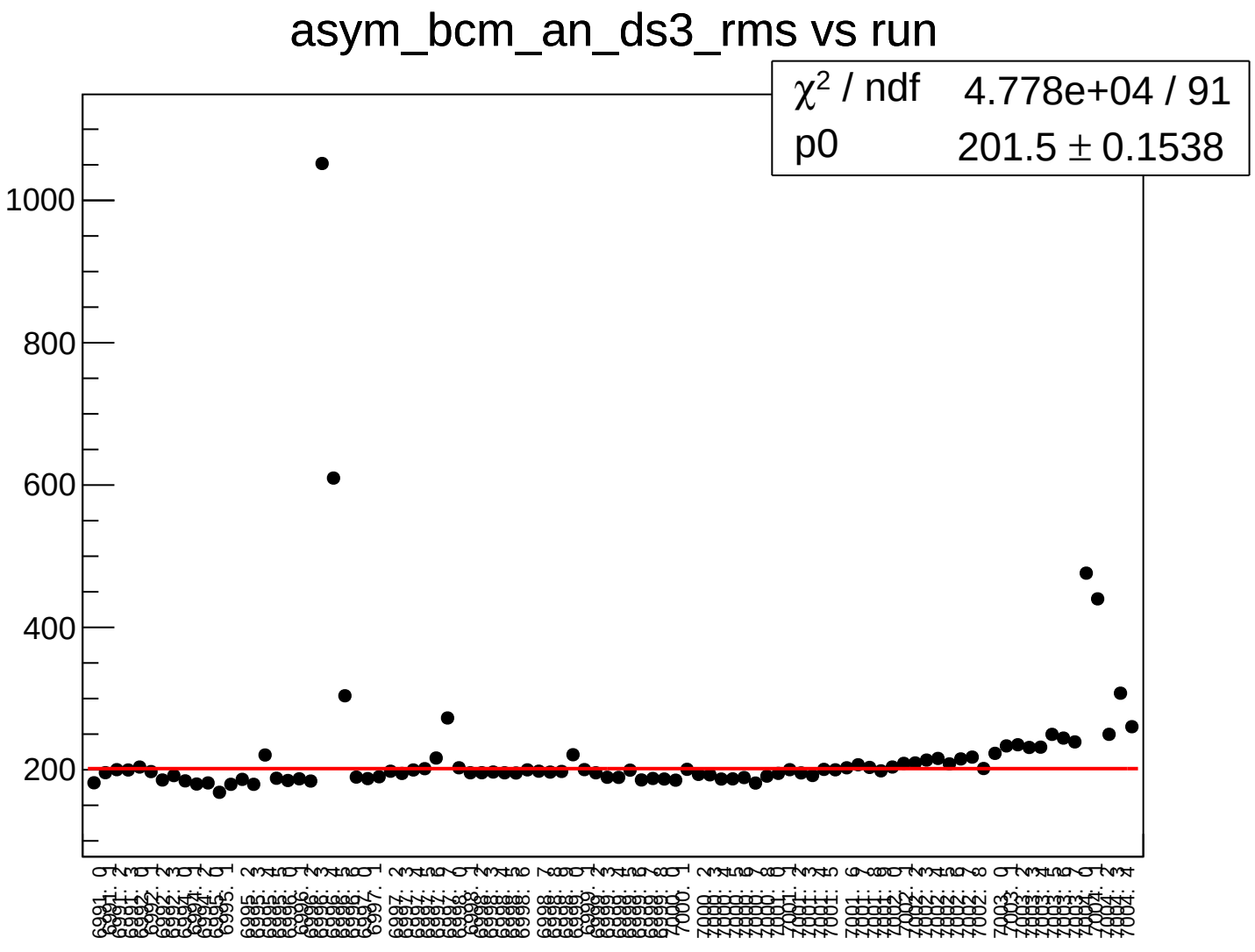

asym_bcm_an_ds_mean vs run
χ² / ndf 10.84 / 91
p0 −231.2 ± 217.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 100.7
Std Dev 87.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

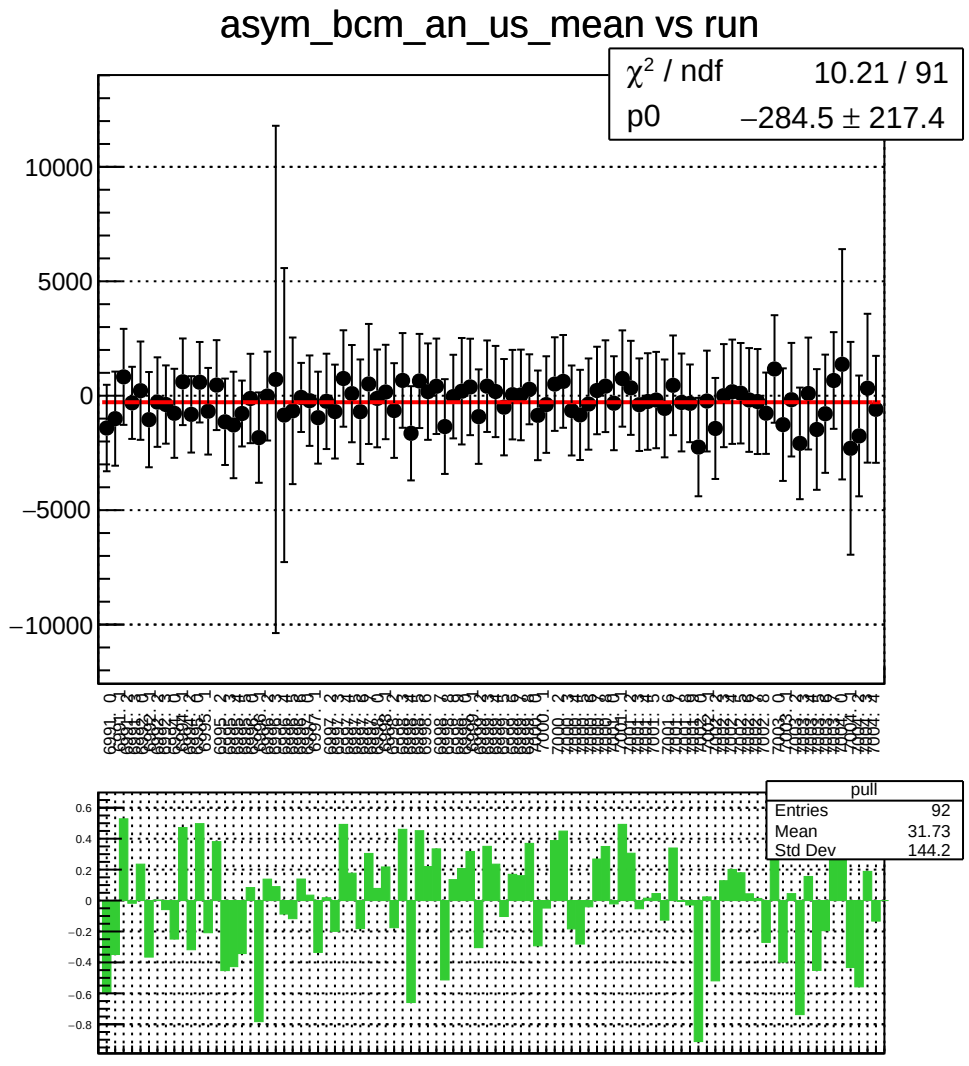

pull1D
Entries 92
Mean −0.005152
Std Dev 0.3432
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

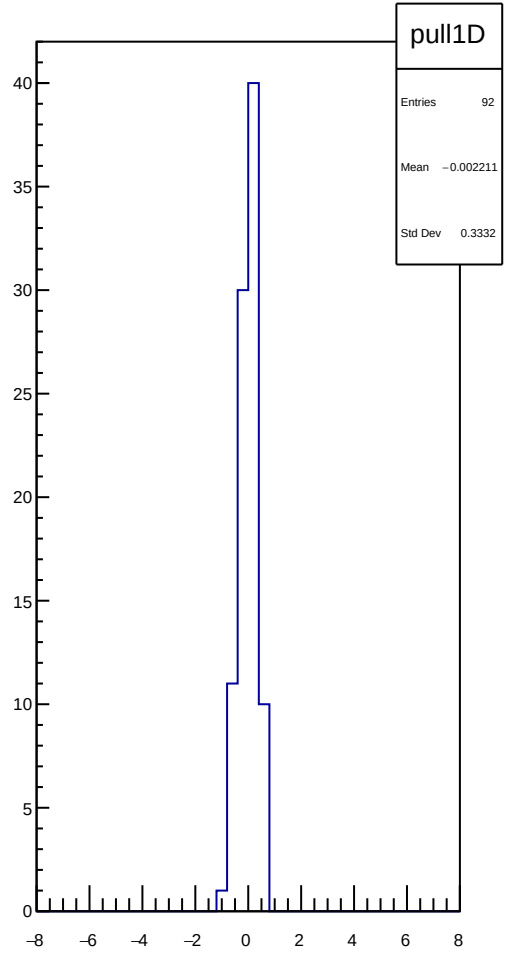

asym_bcm_an_ds_rms vs run
χ² / ndf 4.763e+04 / 91
p0 201.4 ± 0.1537
1000
800
600
400
200

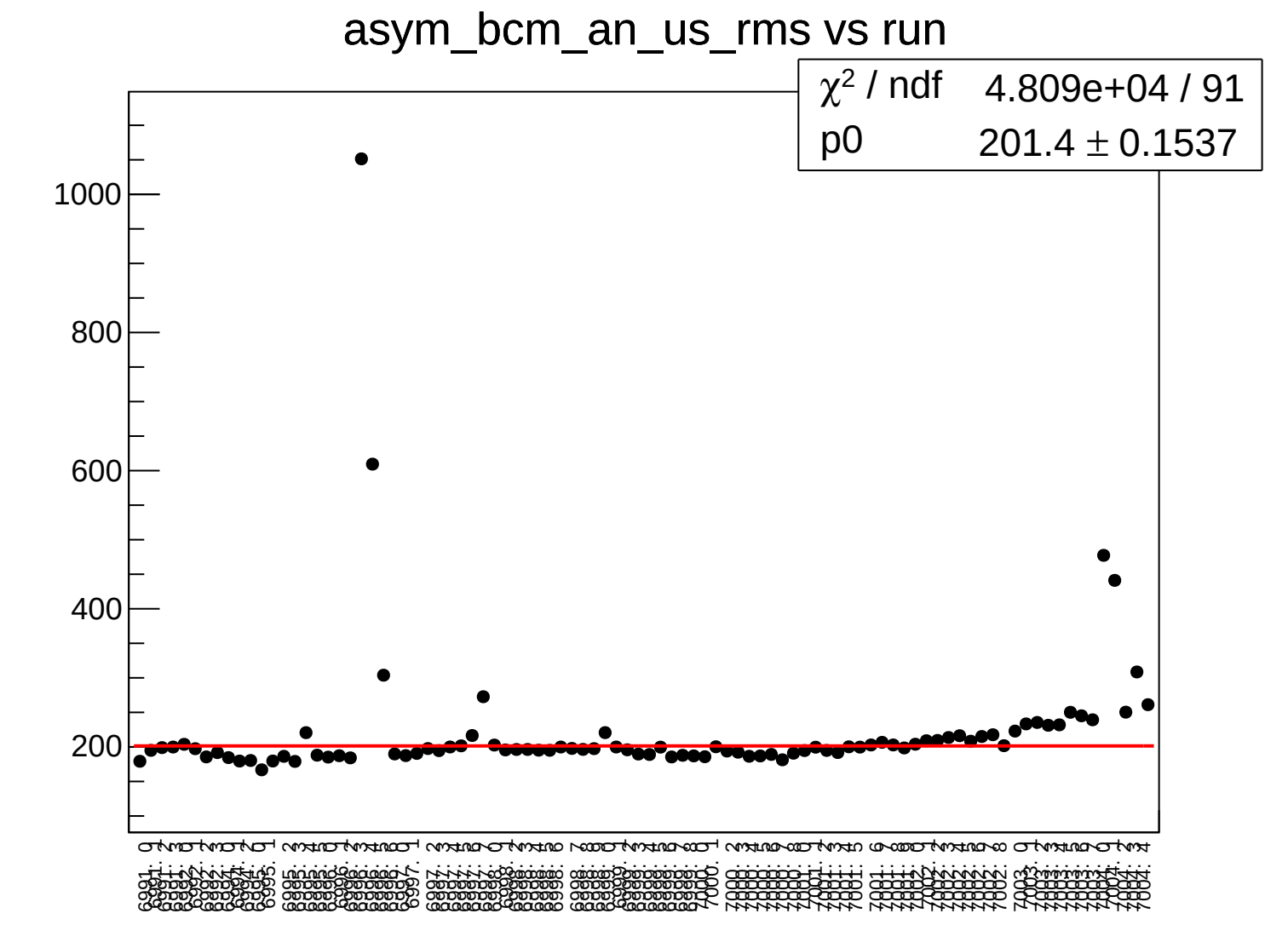

asym_bcm_an_ds3_mean vs run
χ² / ndf 10.54 / 91
p0 −243.1± 217.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 97.84
Std Dev 99.37
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

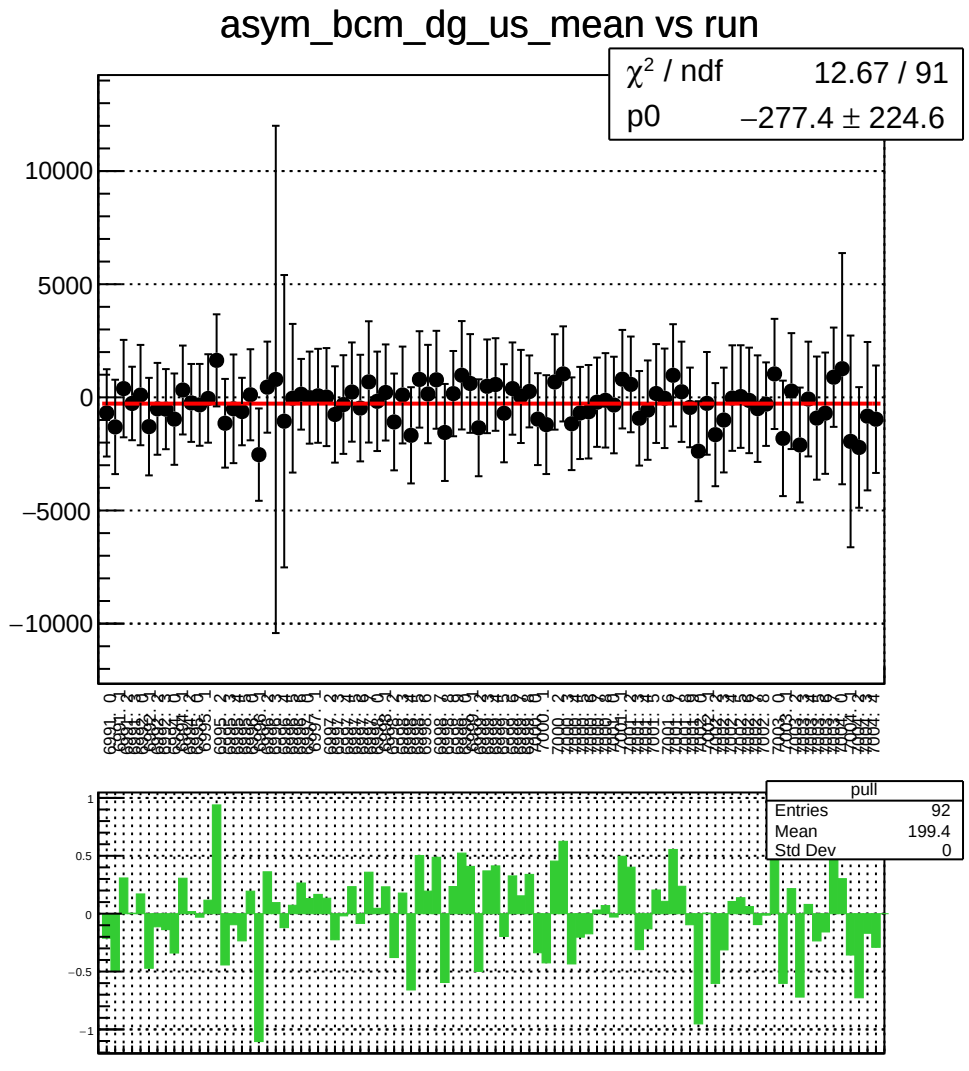

pull1D
Entries 92
Mean −0.004684
Std Dev 0.3384
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

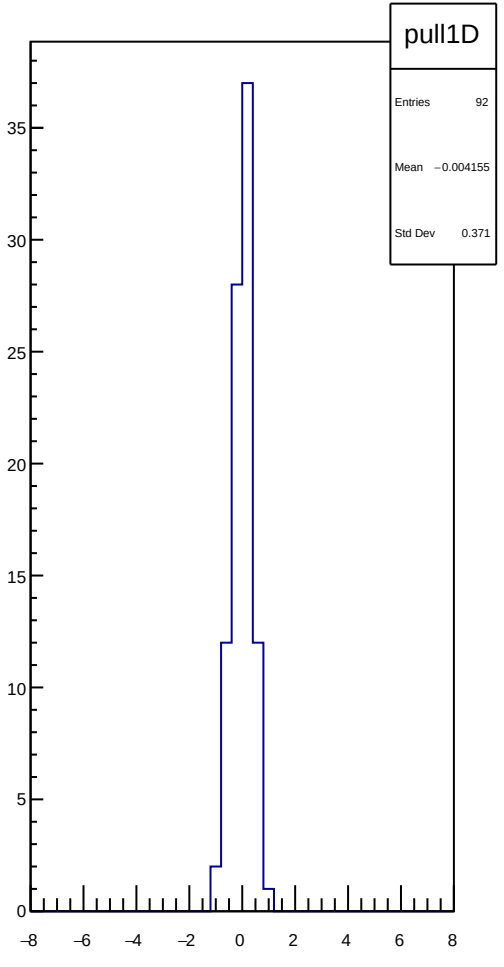

asym_bcm_an_ds3_rms vs run
χ² / ndf 4.778e+04 / 91
p0 201.5 ± 0.1538
1000
800
600
400
200

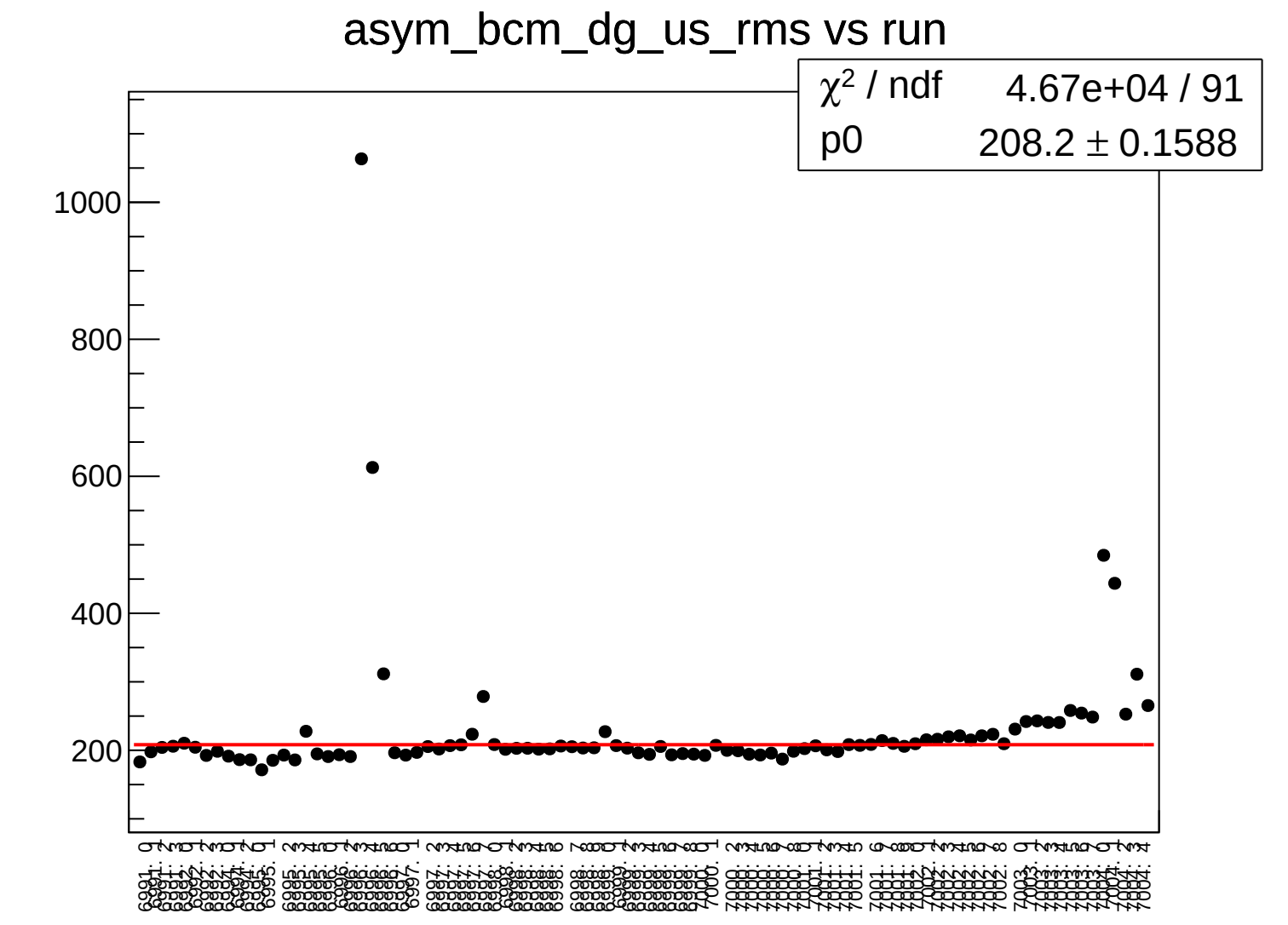

asym_bcm_an_us_mean vs run
χ² / ndf 10.21 / 91
p0 −284.5 ± 217.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 31.73
Std Dev 144.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

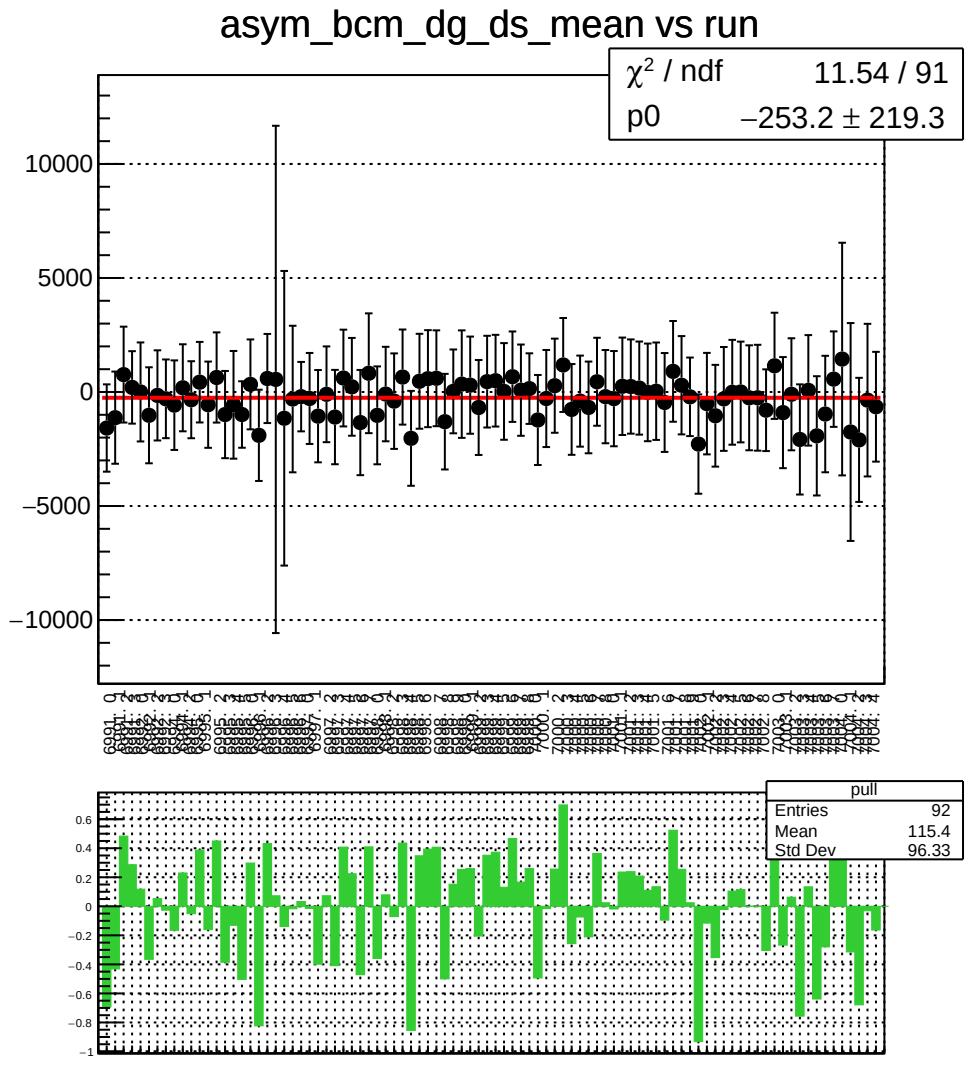

pull1D
Entries 92
Mean −0.002211
Std Dev 0.3332
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

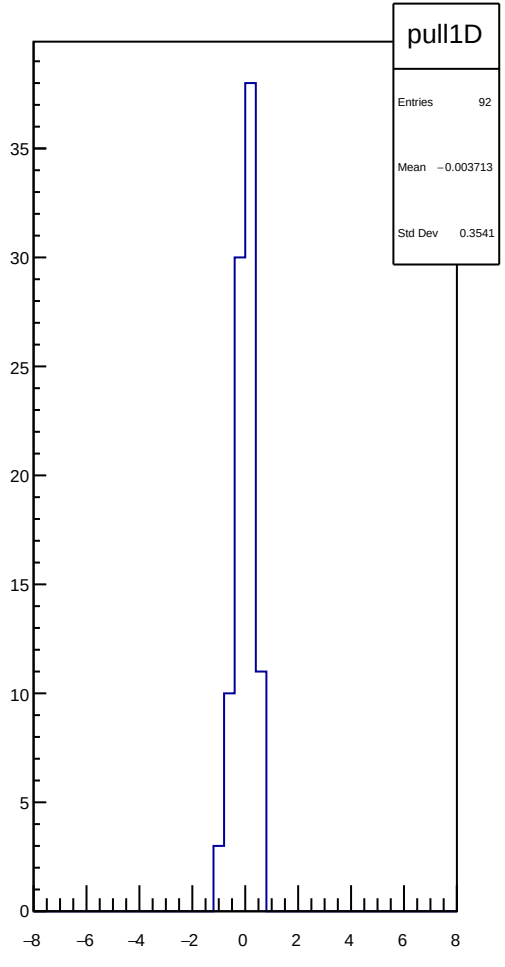

asym_bcm_an_us_rms vs run
χ² / ndf 4.809e+04 / 91
p0 201.4 ± 0.1537
1000
800
600
400
200

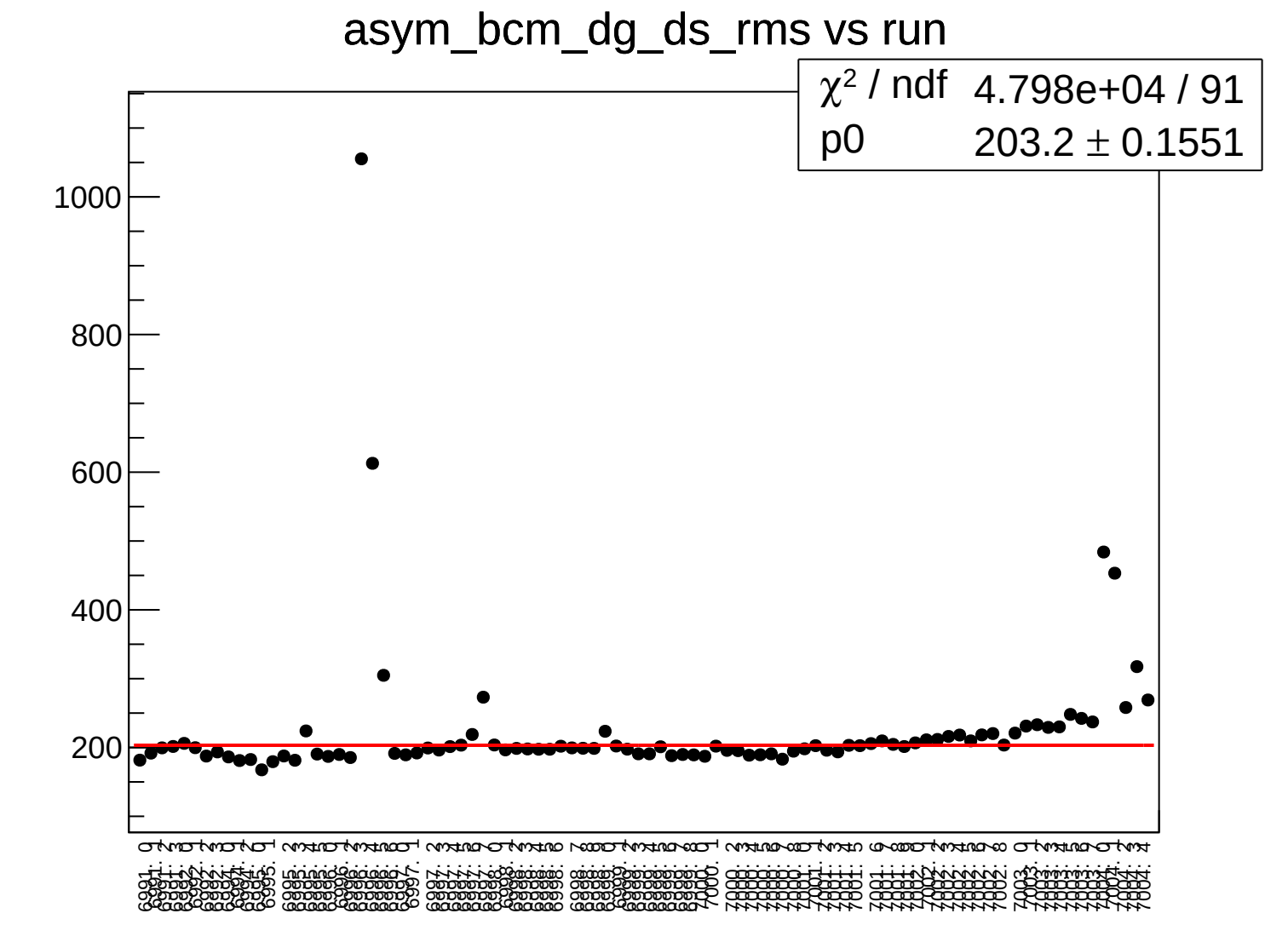

asym_bcm_dg_us_mean vs run
χ² / ndf 12.67 / 91
p0 −277.4 ± 224.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 199.4
Std Dev 0
1
0.5
0
−0.5
−1

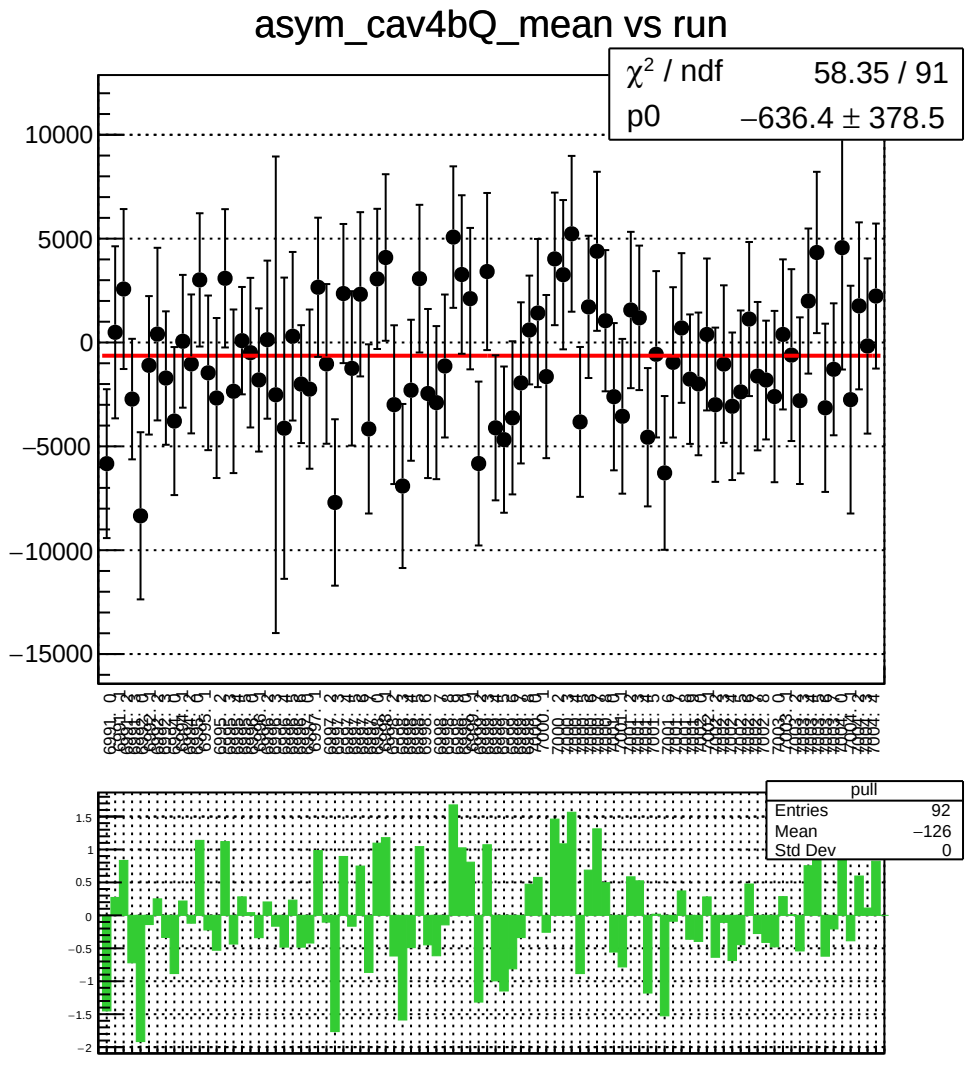

pull1D
Entries 92
Mean −0.004155
Std Dev 0.371
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

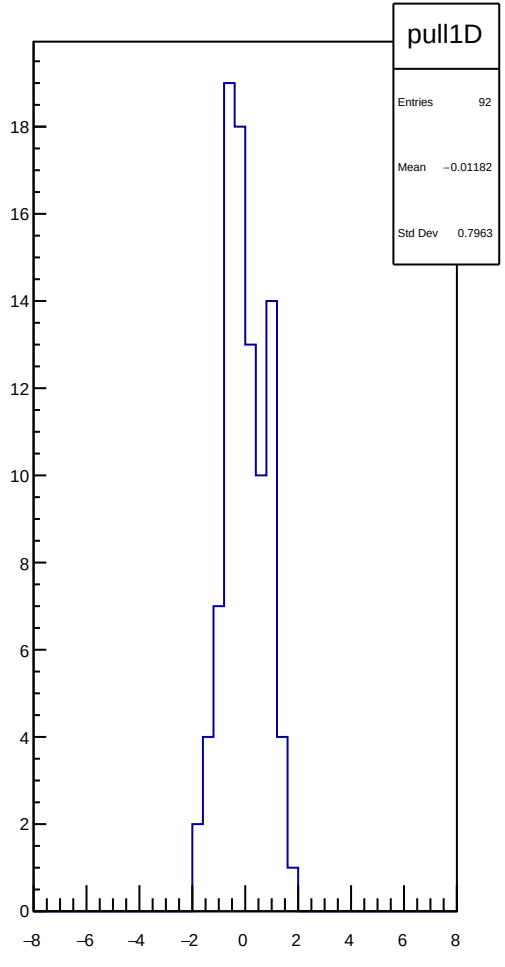

asym_bcm_dg_us_rms vs run
χ² / ndf 4.67e+04 / 91
p0 208.2 ± 0.1588
1000
800
600
400
200

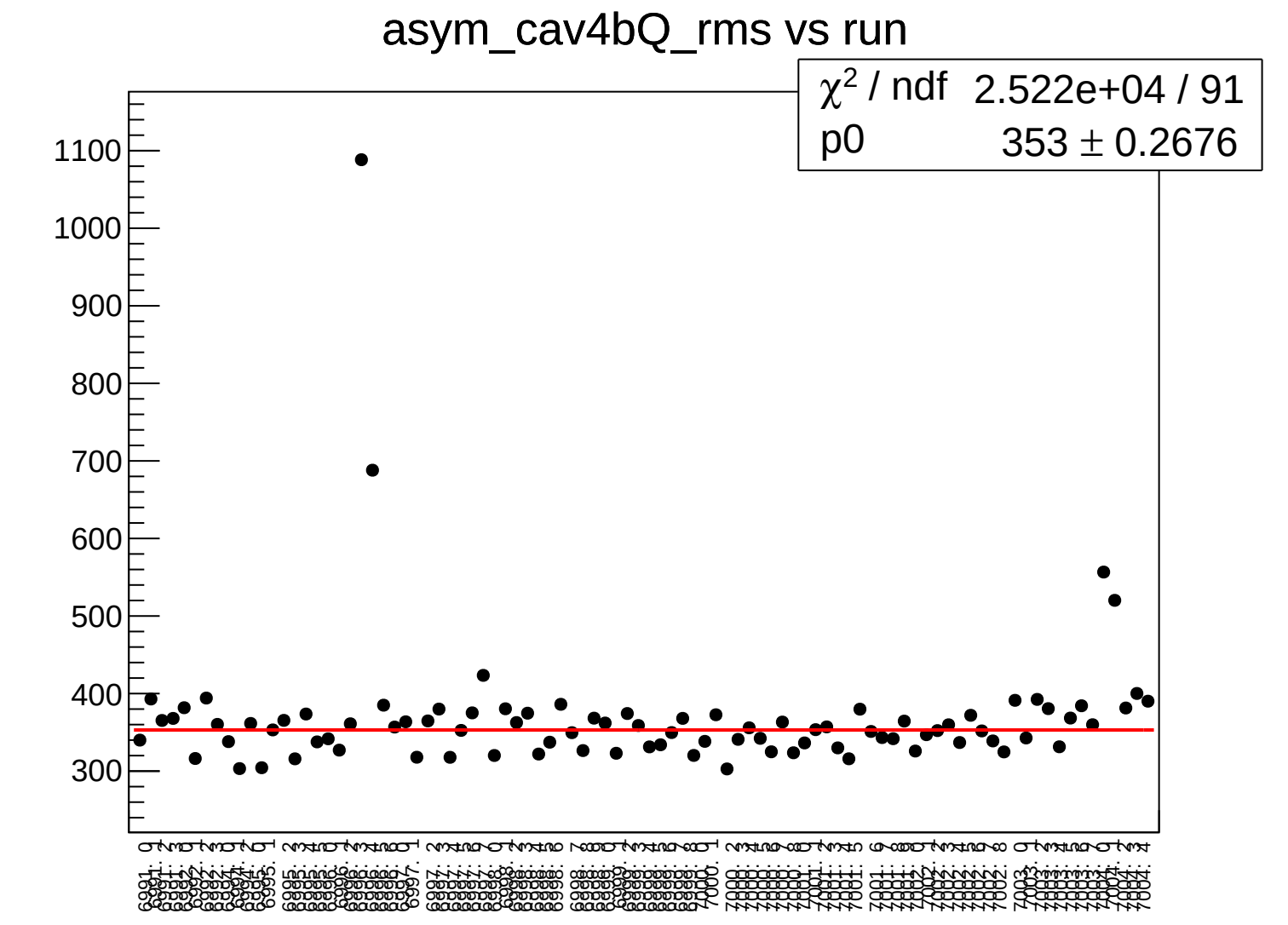

asym_bcm_dg_ds_mean vs run
χ² / ndf 11.54 / 91
p0 −253.2 ± 219.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 115.4
Std Dev 96.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

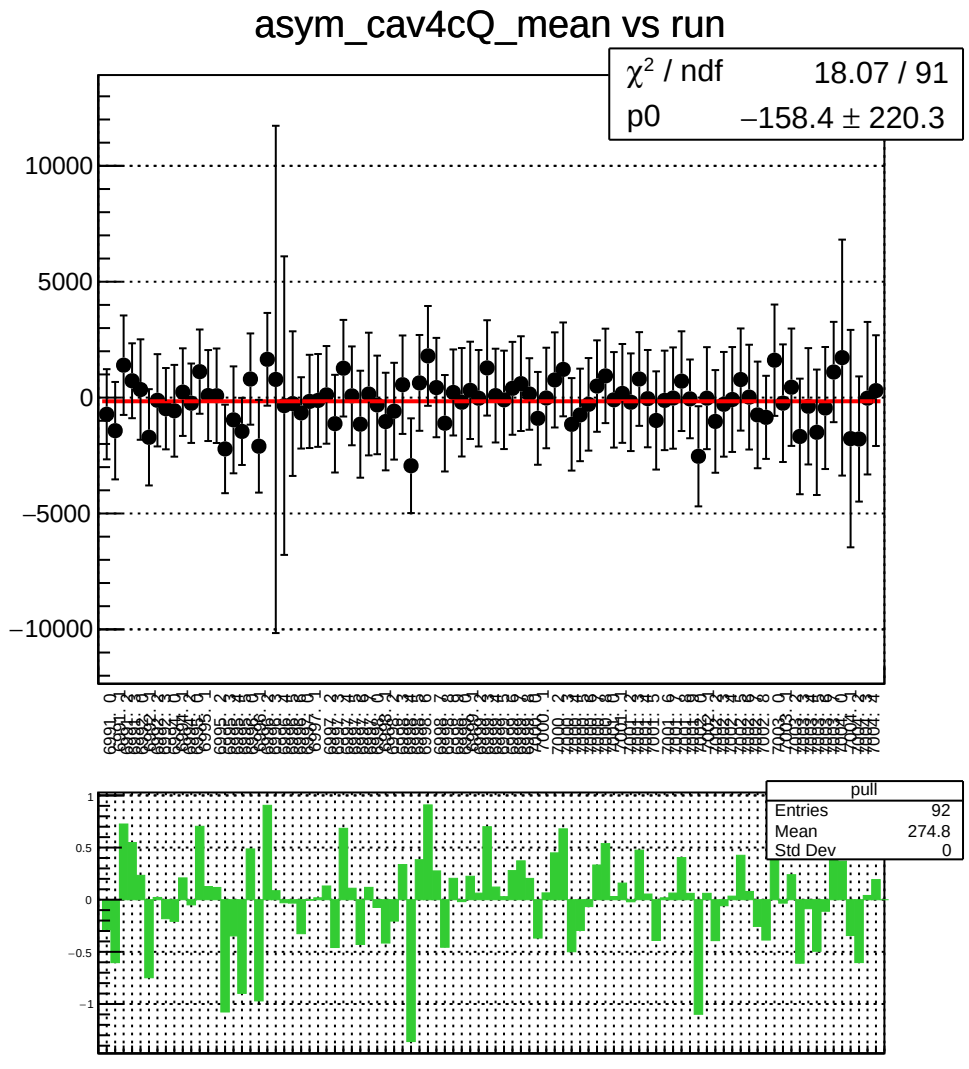

pull1D
Entries 92
Mean −0.003713
Std Dev 0.3541
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

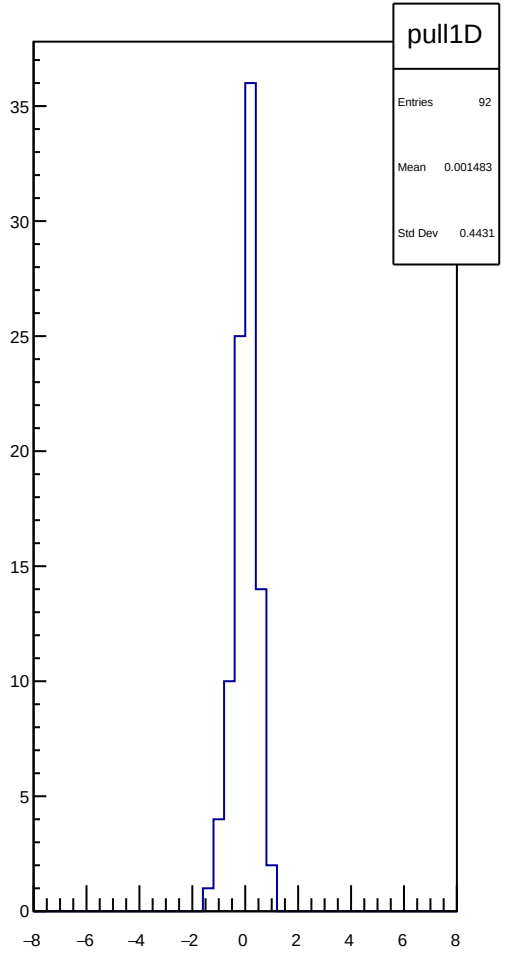

asym_bcm_dg_ds_rms vs run
χ² / ndf 4.798e+04 / 91
p0 203.2 ± 0.1551
1000
800
600
400
200

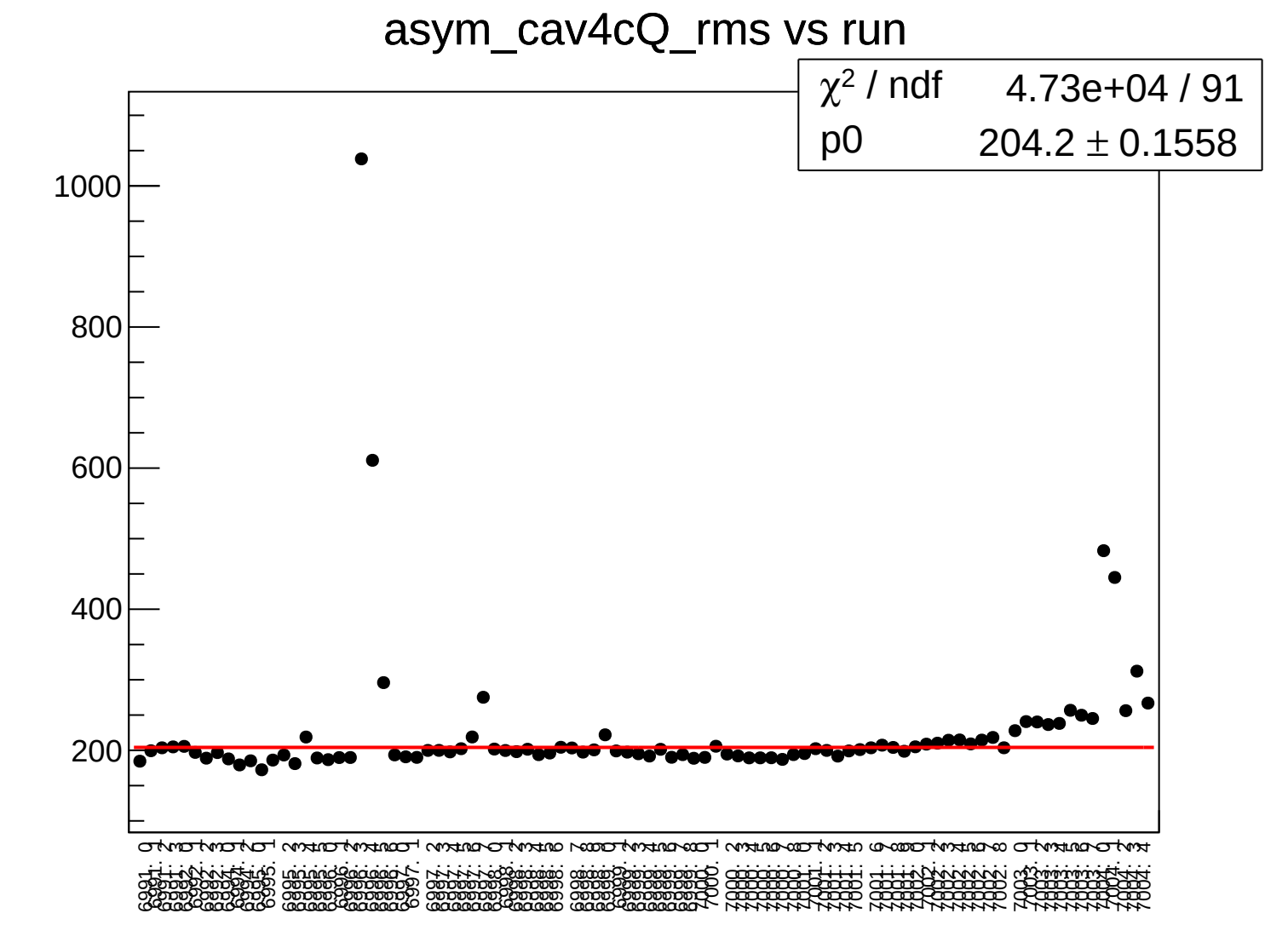

asym_cav4bQ_mean vs run
χ² / ndf 58.35 / 91
p0 −636.4 ± 378.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −126
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

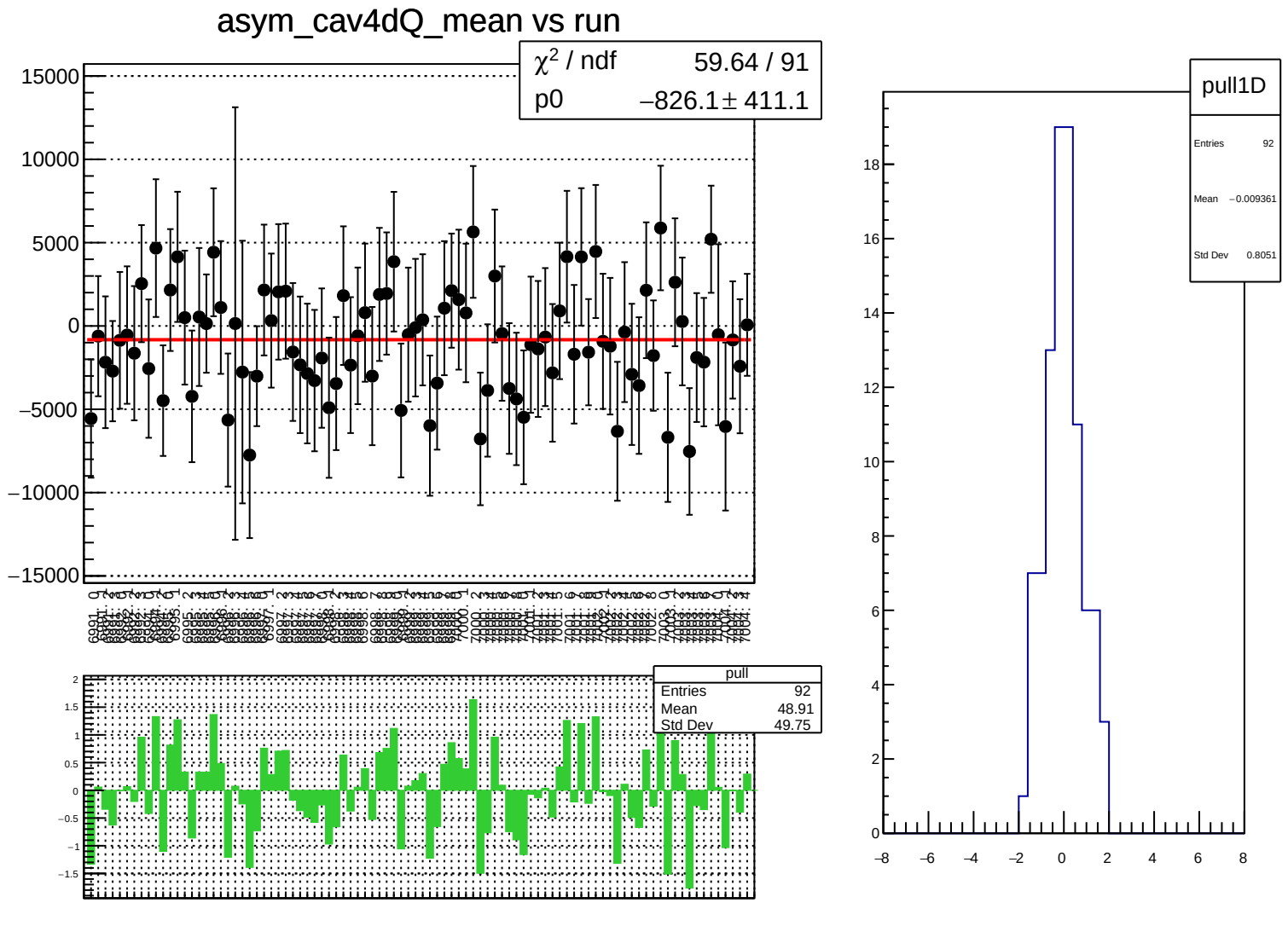

pull1D
Entries 92
Mean −0.01182
Std Dev 0.7963
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

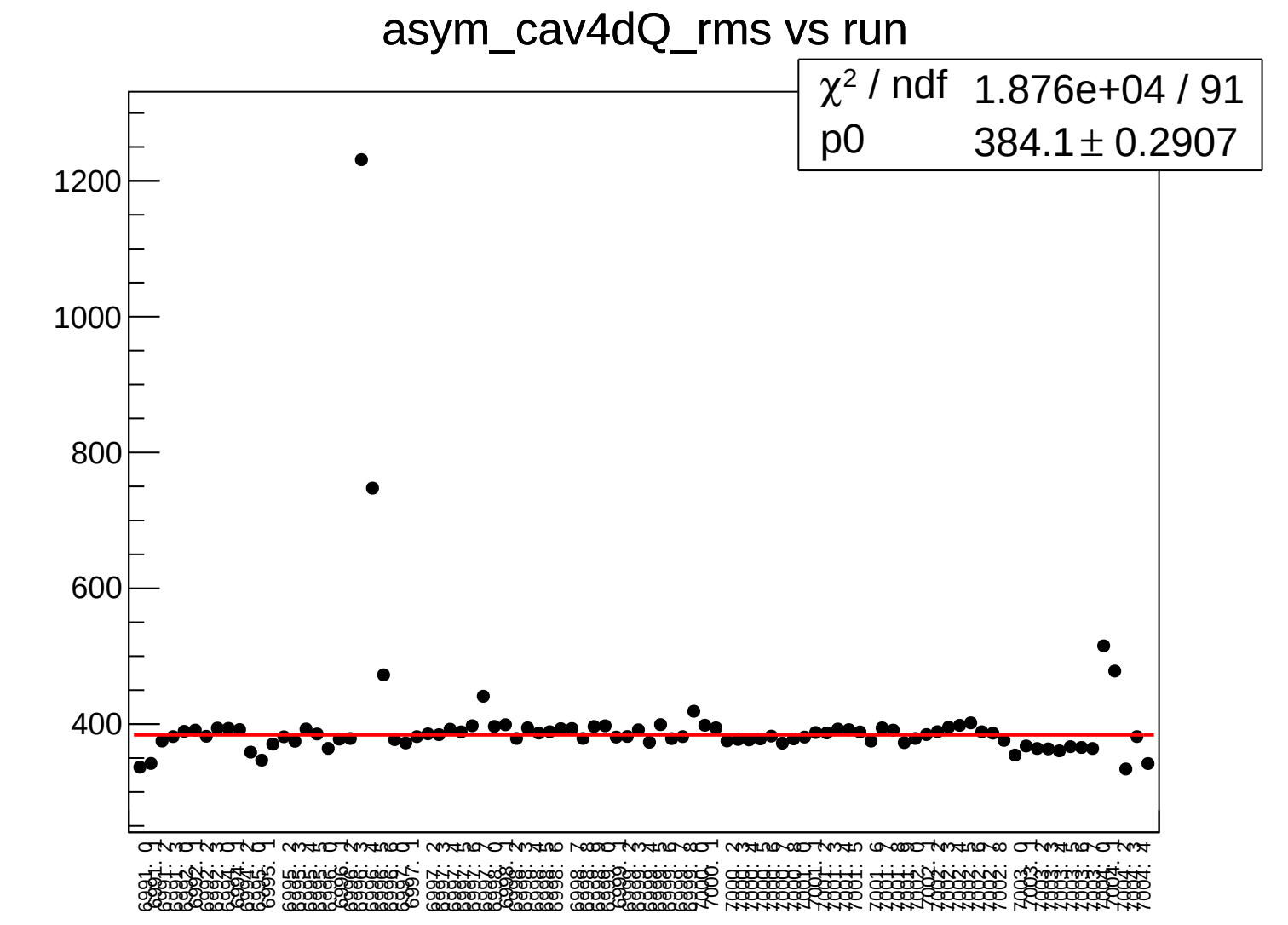

asym_cav4bQ_rms vs run
χ² / ndf 2.522e+04 / 91
p0 353 ± 0.2676
1100
1000
900
800
700
600
500
400
300

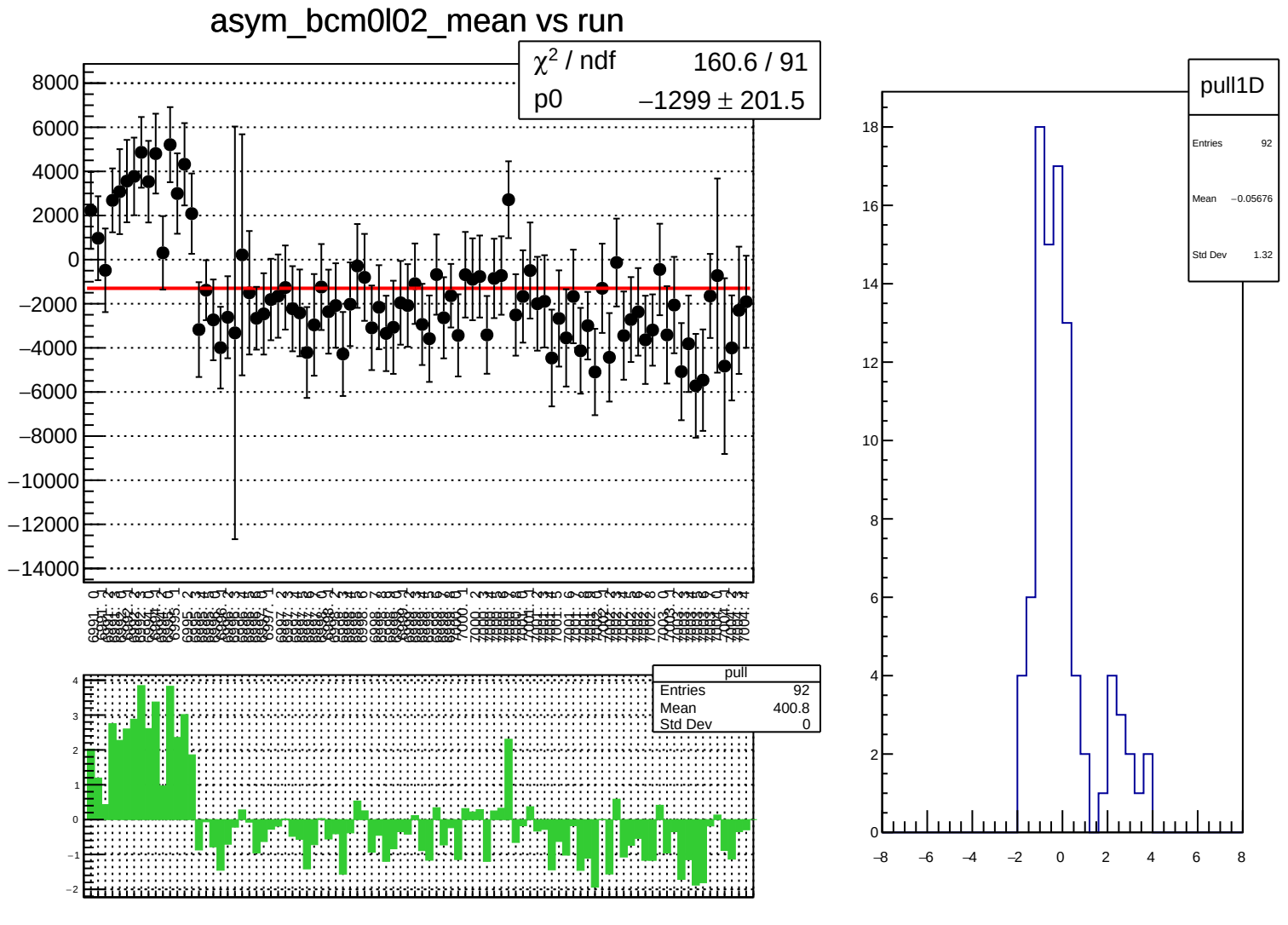

asym_cav4cQ_mean vs run
χ² / ndf 18.07 / 91
p0 −158.4 ± 220.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 274.8
Std Dev 0
1
0.5
0
−0.5
−1

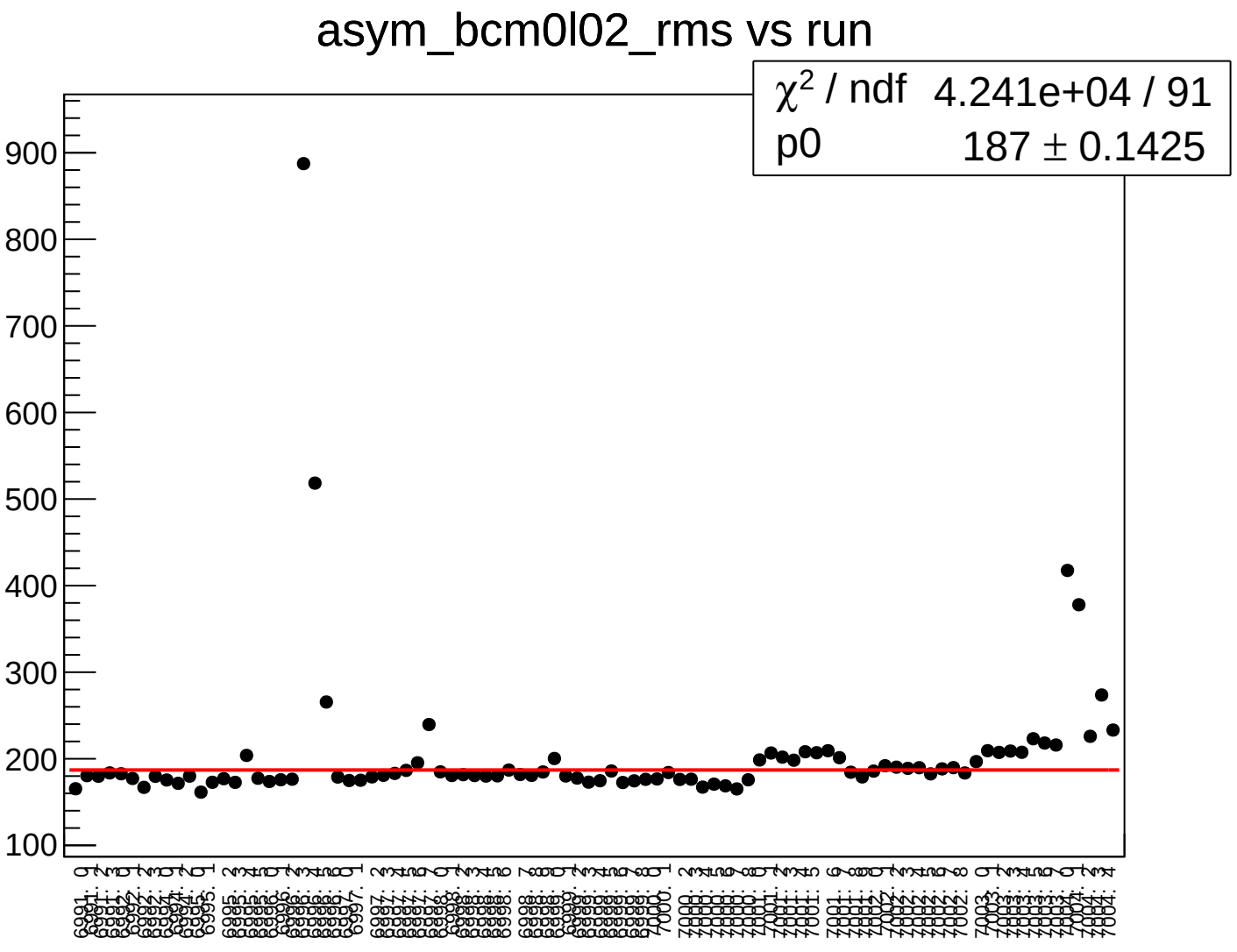

pull1D
Entries 92
Mean 0.001483
Std Dev 0.4431
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

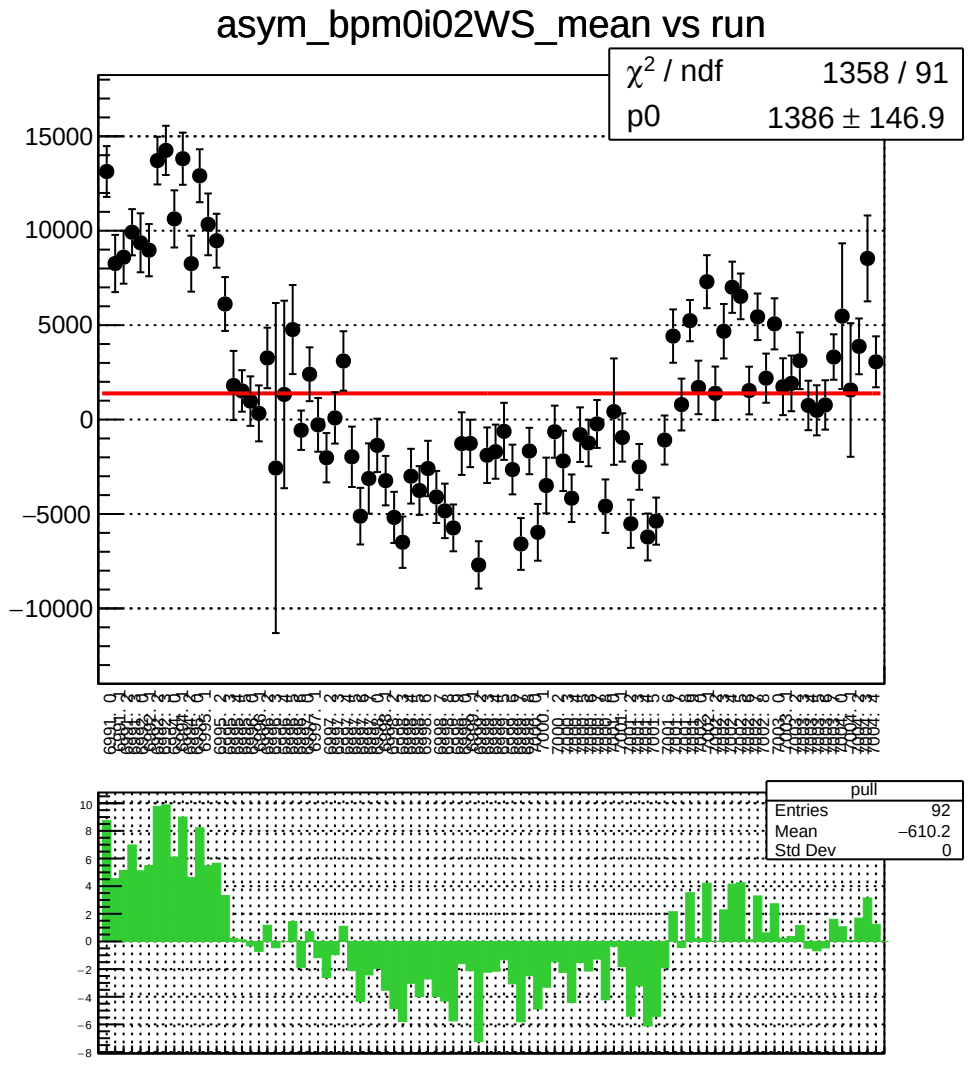

asym_cav4cQ_rms vs run
χ² / ndf 4.73e+04 / 91
p0 204.2 ± 0.1558
1000
800
600
400
200

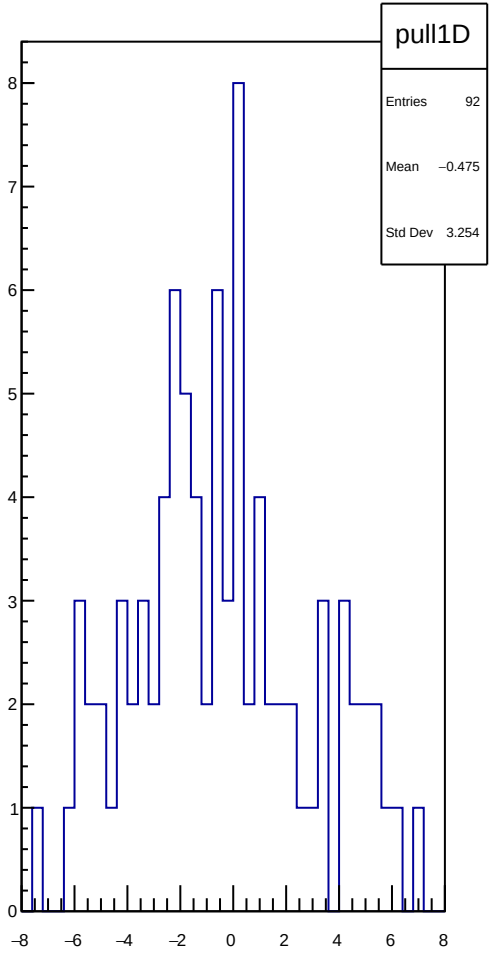

asym_cav4dQ_mean vs run
χ² / ndf 59.64 / 91
p0 −826.1 ± 411.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 48.91
Std Dev 49.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.009361
Std Dev 0.8051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

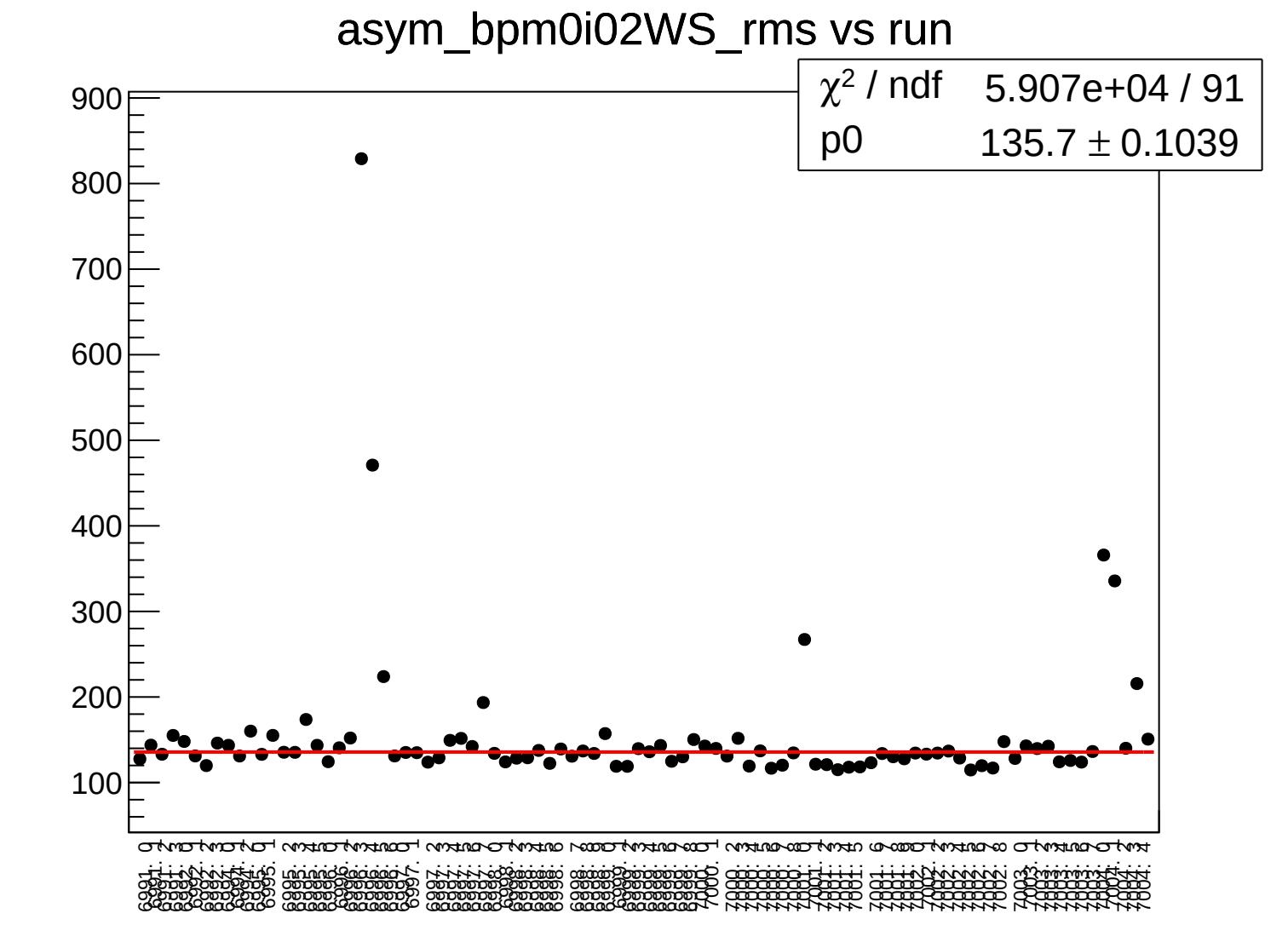

asym_cav4dQ_rms vs run
χ² / ndf 1.876e+04 / 91
p0 384.1 ± 0.2907
1200
1000
800
600
400

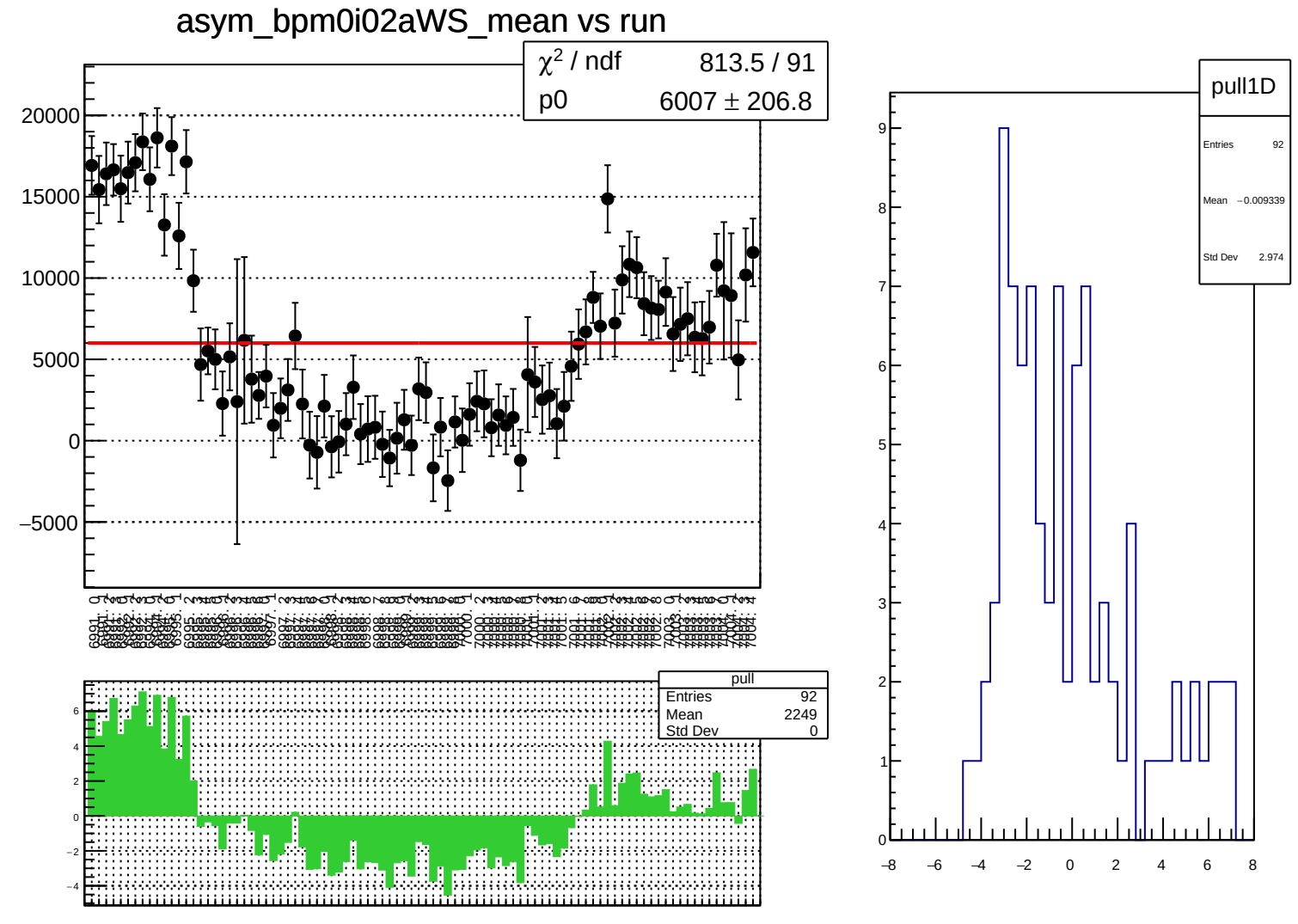

asym_bcm0l02_mean vs run
χ² / ndf 160.6 / 91
p0 −1299 ± 201.5
pull
Entries 92
Mean 400.8
Std Dev 0
pull1D
Entries 92
Mean −0.05676
Std Dev 1.32

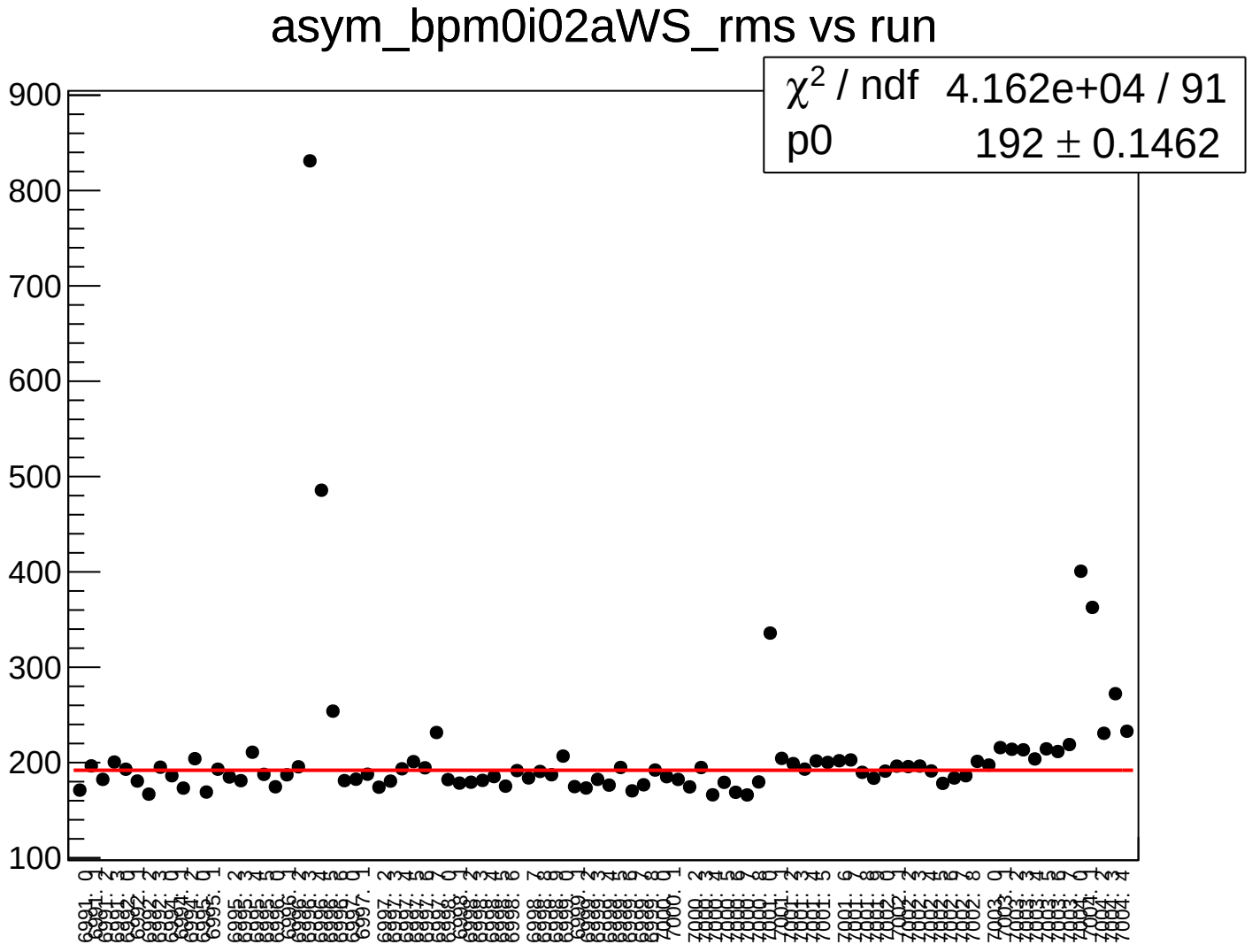

asym_bcm0l02_rms vs run
χ^2 / ndf 4.241e+04 / 91
p0 187 ± 0.1425
900
800
700
600
500
400
300
200
100

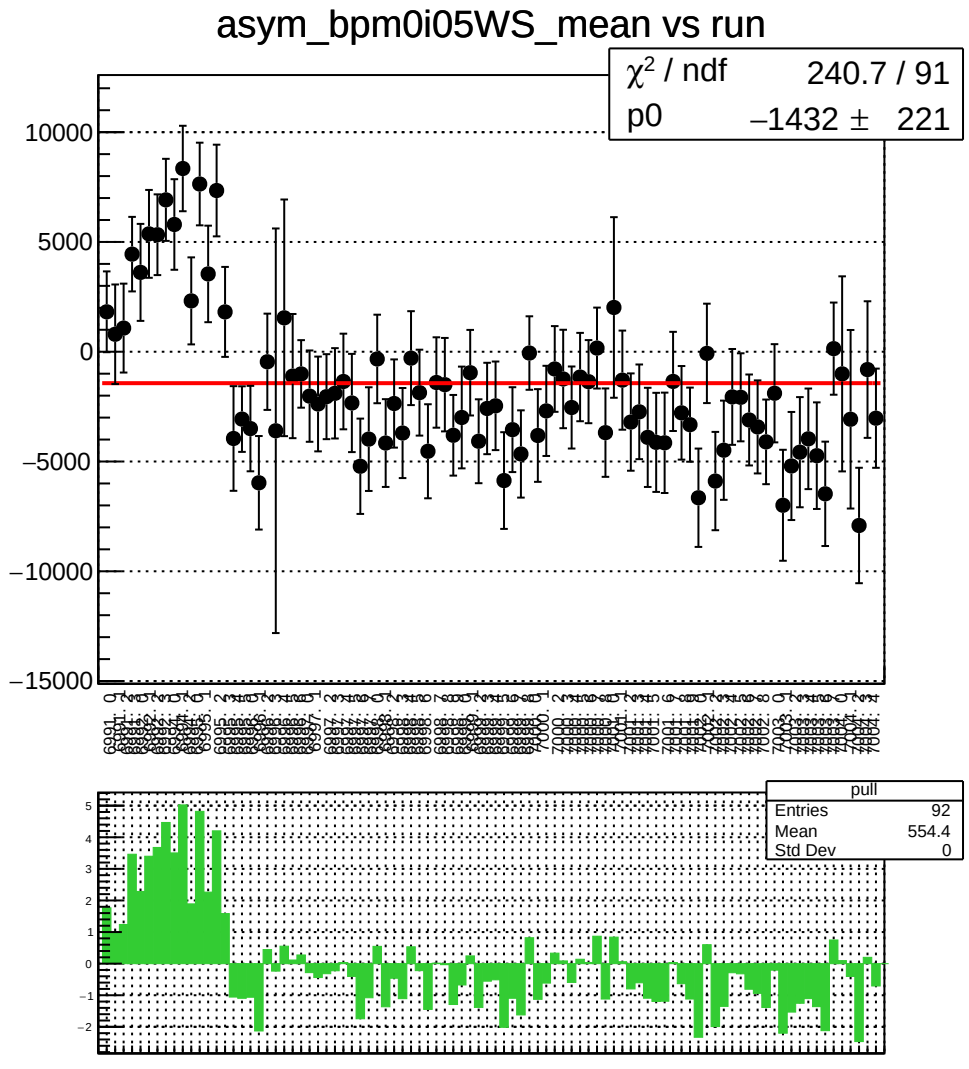

asym_bpm0i02WS_mean vs run
χ² / ndf 1358 / 91
p0 1386 ± 146.9
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −610.2
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

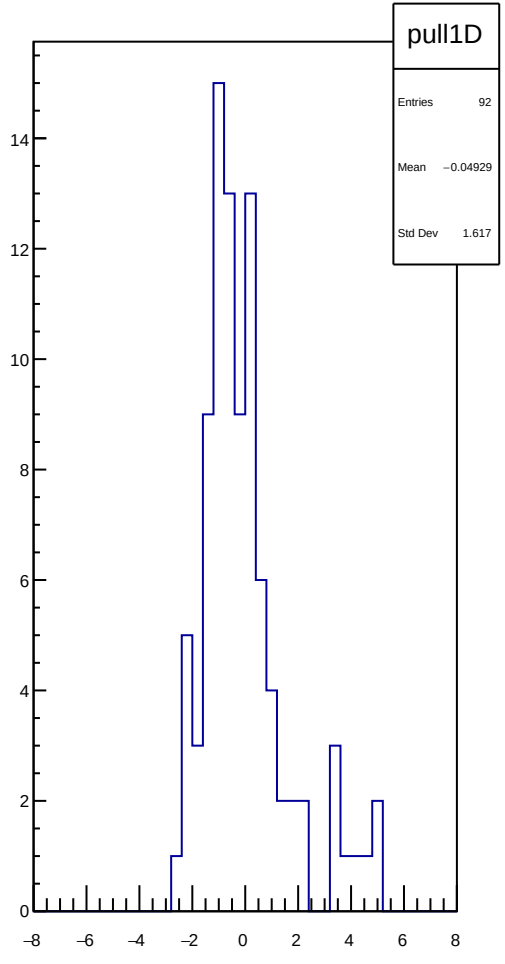

pull1D
Entries 92
Mean −0.475
Std Dev 3.254
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

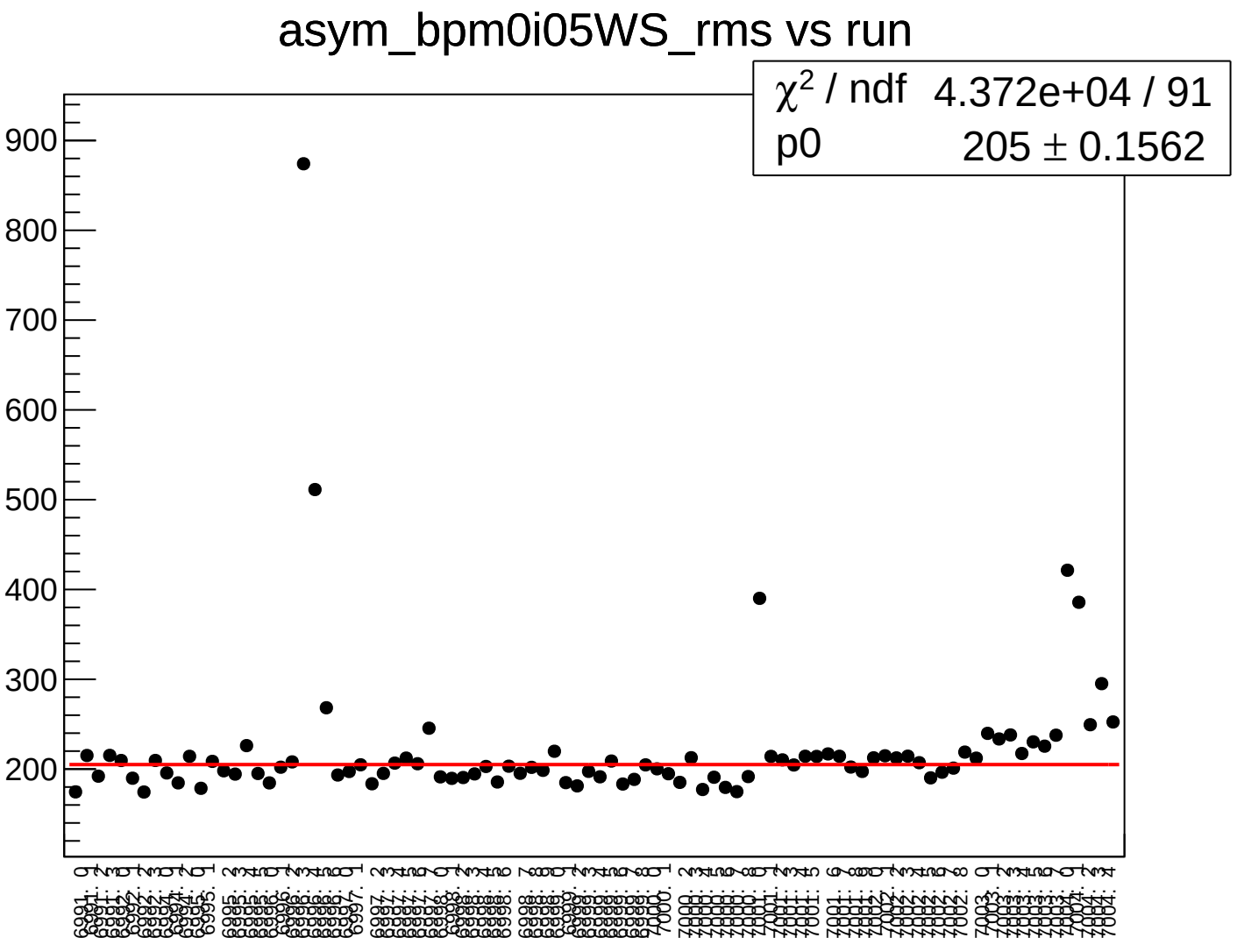

asym_bpm0i02WS_rms vs run
χ^2 / ndf 5.907e+04 / 91
p0 135.7 ± 0.1039
900
800
700
600
500
400
300
200
100

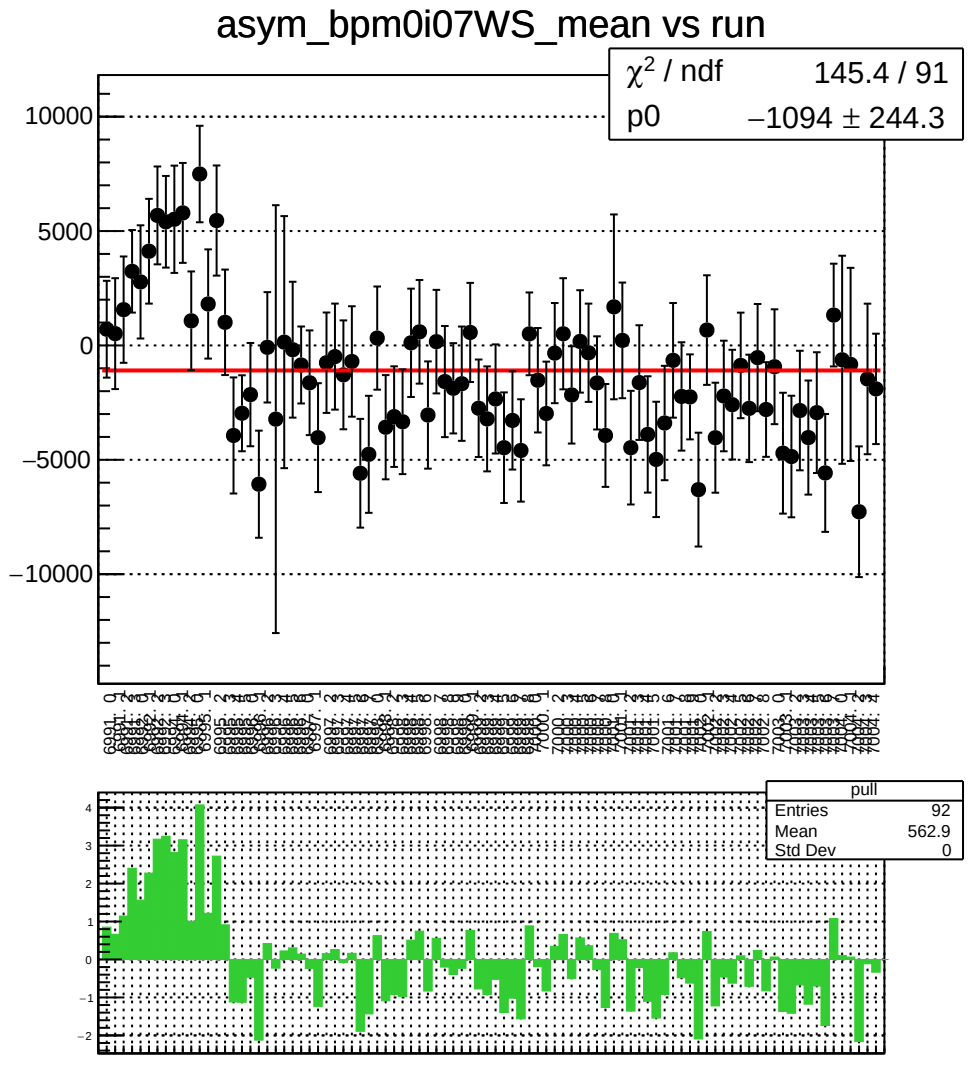

asym_bpm0i02aWS_mean vs run
χ² / ndf 813.5 / 91
p0 6007 ± 206.8
20000
15000
10000
5000
0
−5000
pull
Entries 92
Mean 2249
Std Dev 0
pull1D
Entries 92
Mean −0.009339
Std Dev 2.974

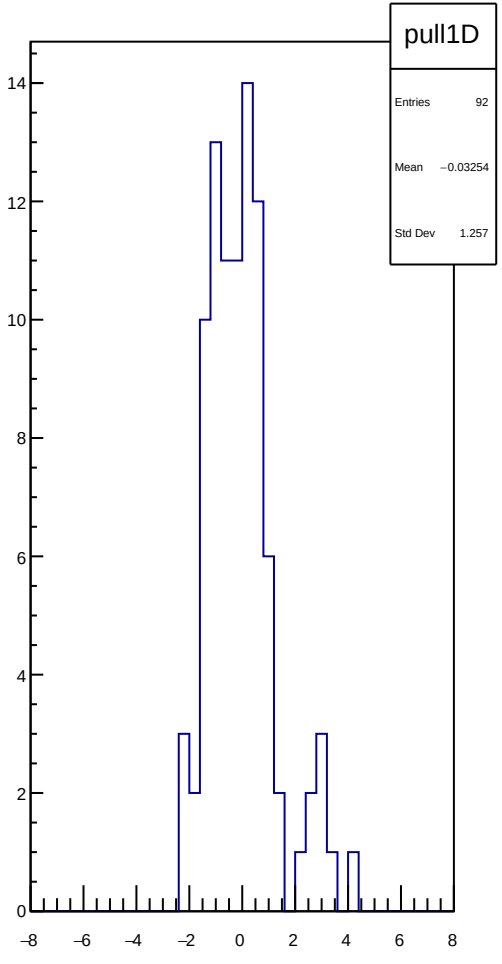

asym_bpm0i02aWS_rms vs run
χ² / ndf 4.162e+04 / 91
p0 192 ± 0.1462
900
800
700
600
500
400
300
200
100

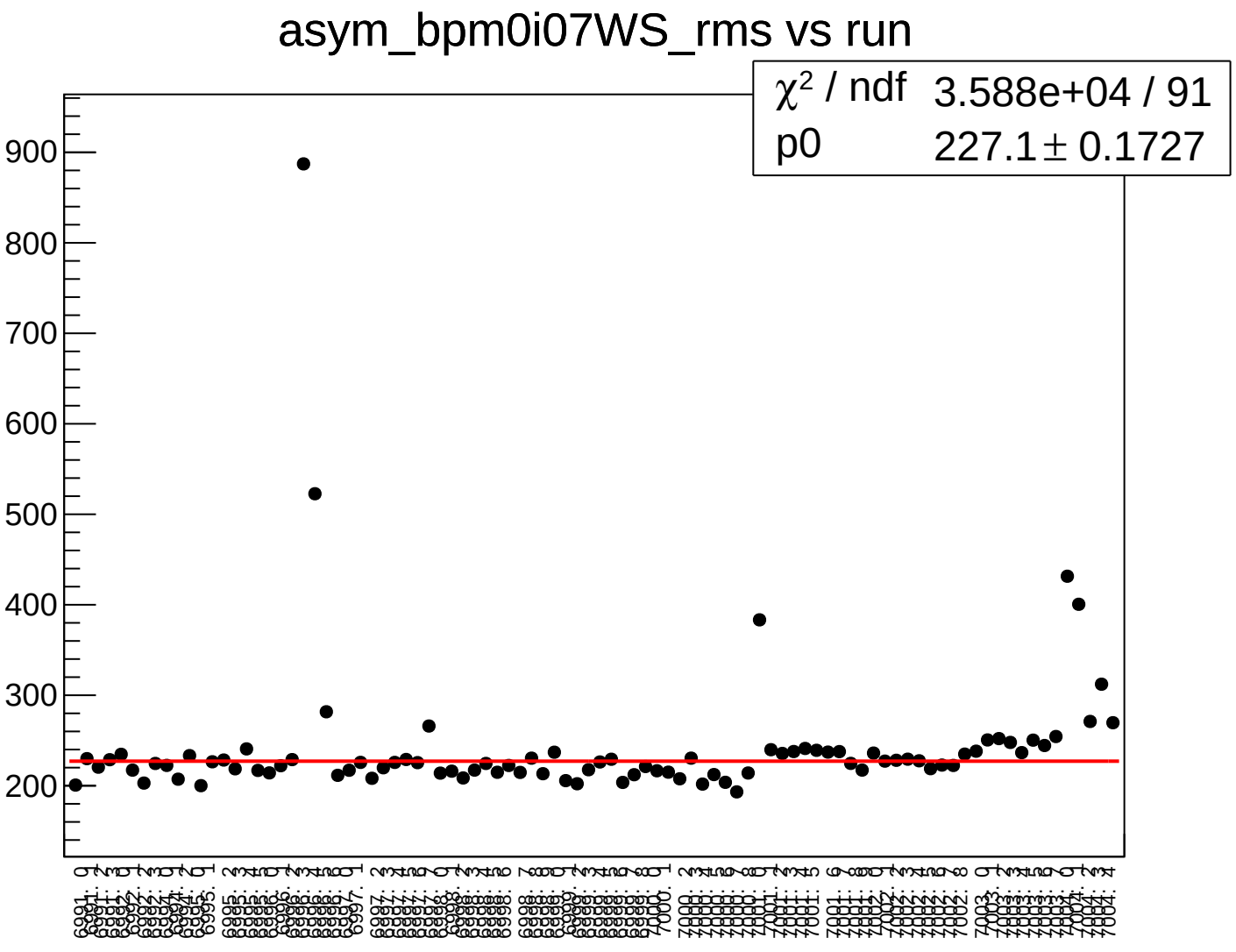

asym_bpm0i05WS_mean vs run
χ² / ndf 240.7 / 91
p0 −1432 ± 221
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 554.4
Std Dev 0
5
4
3
2
1
0
−1
−2

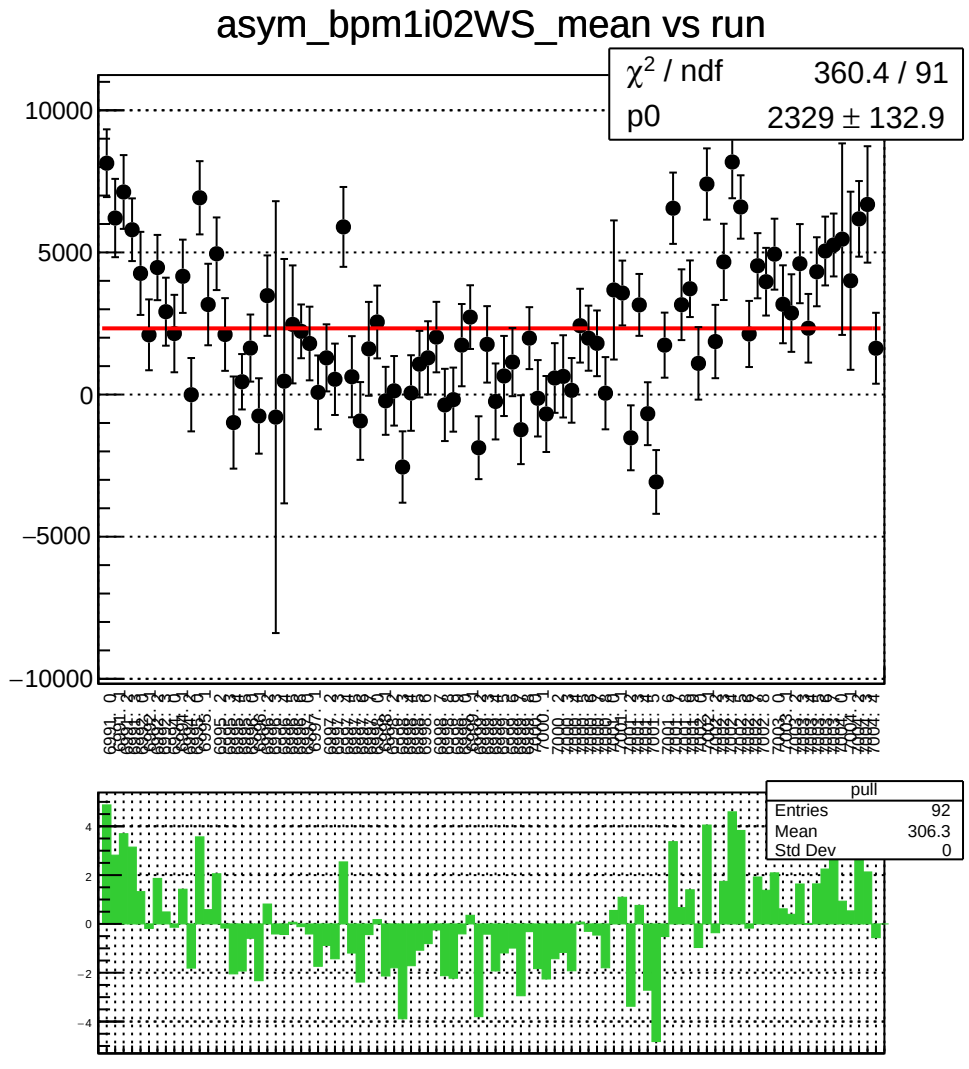

pull1D
Entries 92
Mean −0.04929
Std Dev 1.617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

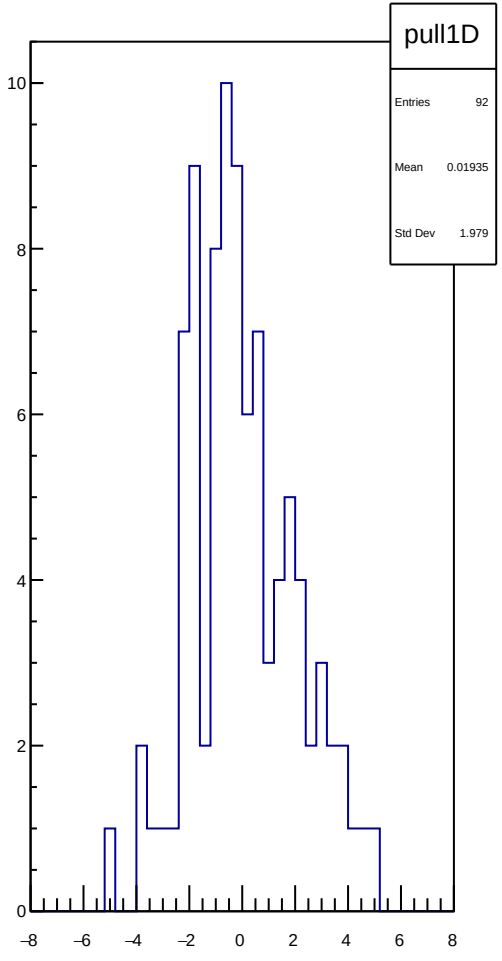

asym_bpm0i05WS_rms vs run
χ^2 / ndf 4.372e+04 / 91
p0 205 ± 0.1562
900
800
700
600
500
400
300
200

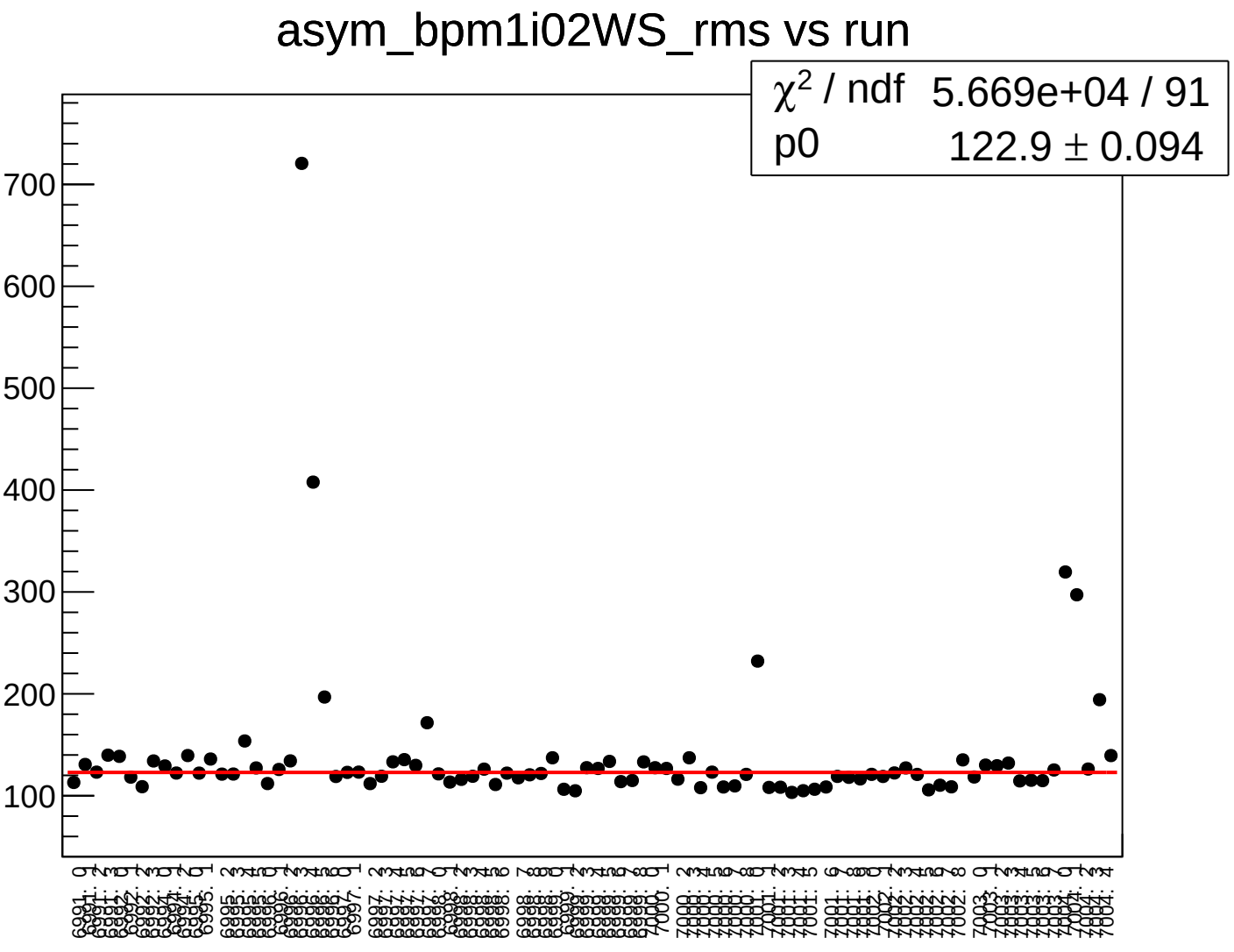

asym_bpm0i07WS_mean vs run
χ² / ndf 145.4 / 91
p0 −1094 ± 244.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 562.9
Std Dev 0
4
3
2
1
0
−1
−2

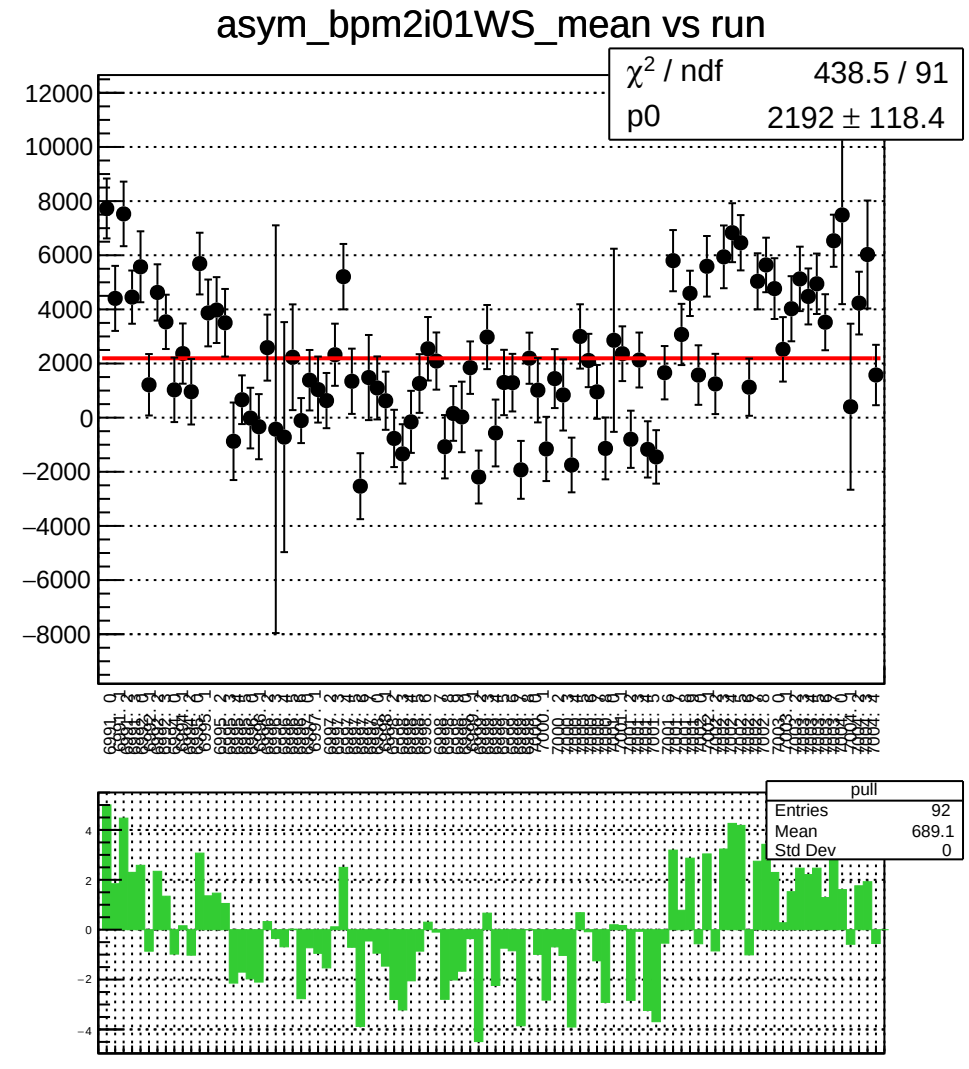

pull1D
Entries 92
Mean −0.03254
Std Dev 1.257
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

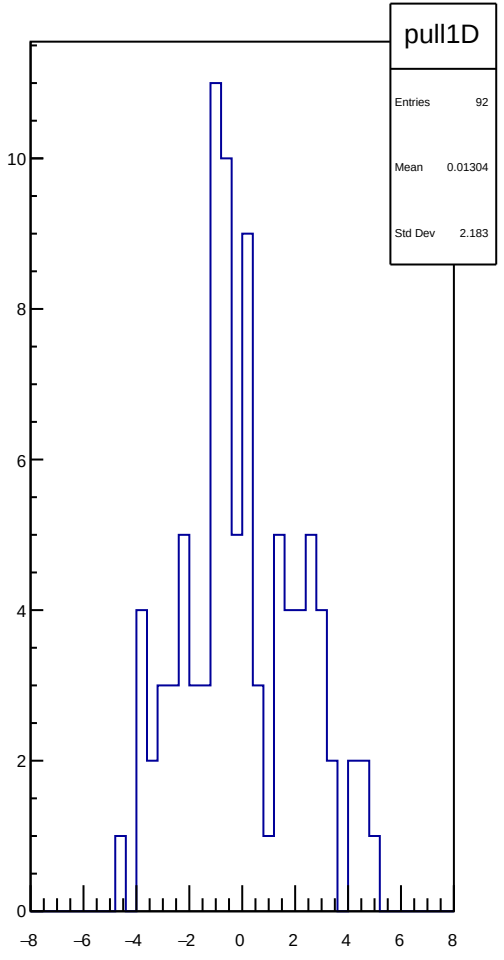

asym_bpm0i07WS_rms vs run
χ² / ndf 3.588e+04 / 91
p0 227.1 ± 0.1727
900
800
700
600
500
400
300
200

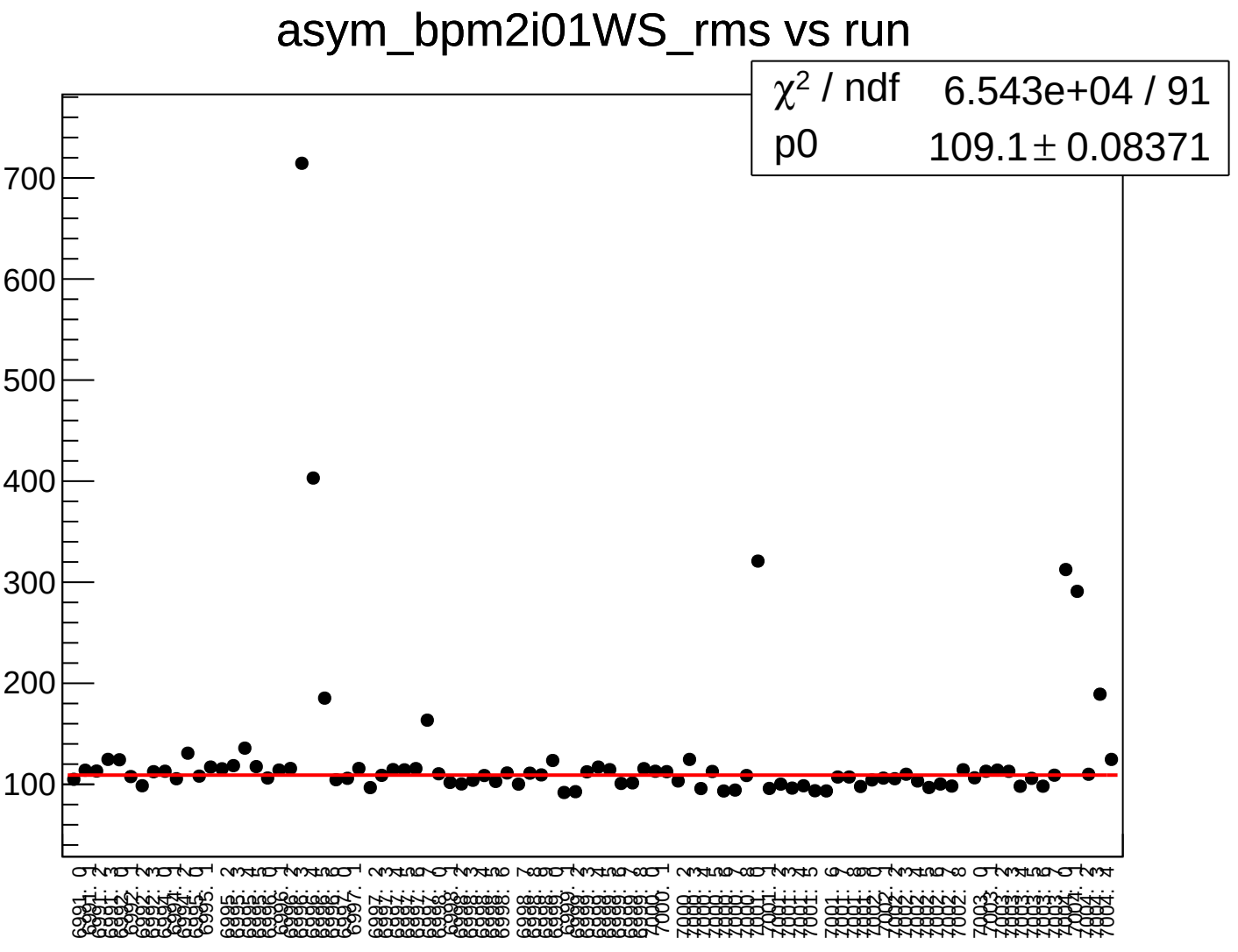

asym_bpm1i02WS_mean vs run
χ² / ndf 360.4 / 91
p0 2329 ± 132.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 306.3
Std Dev 0
4
2
0
−2
−4

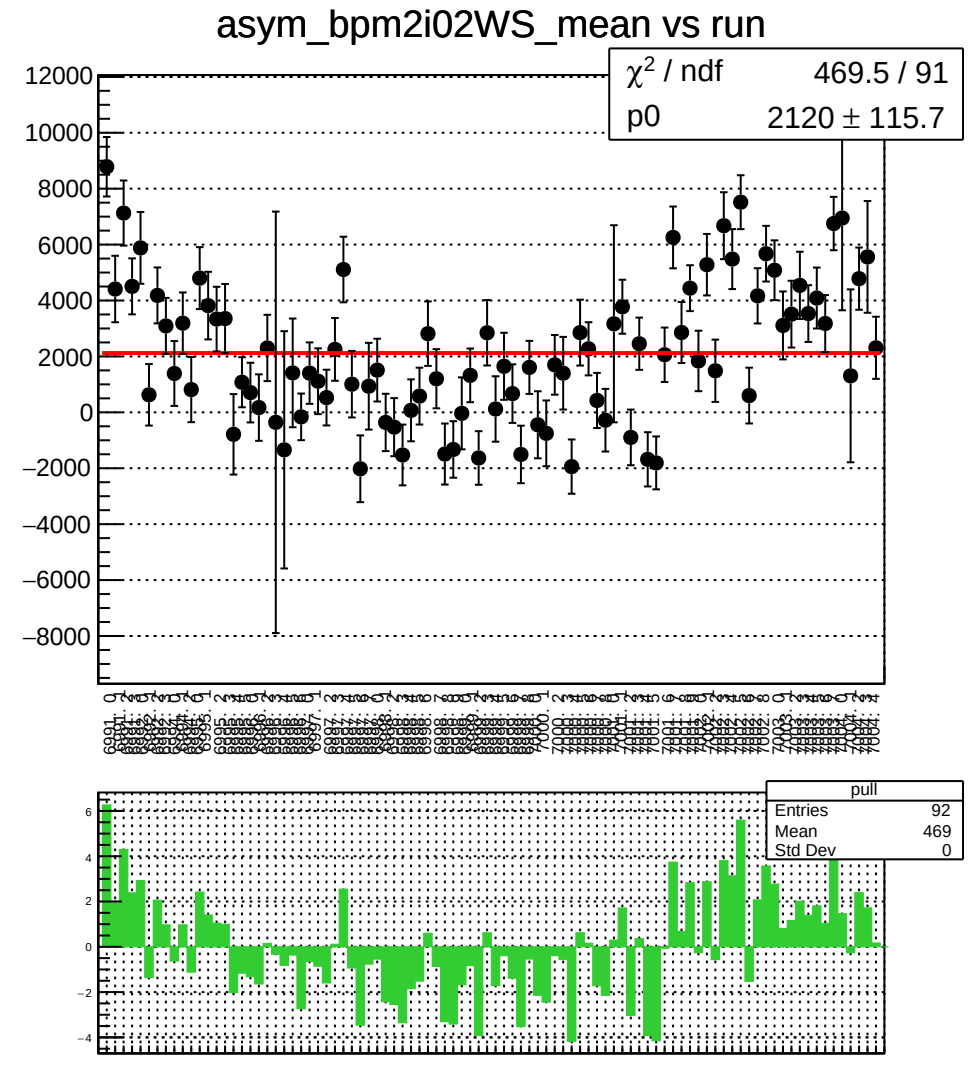

pull1D
Entries 92
Mean 0.01935
Std Dev 1.979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

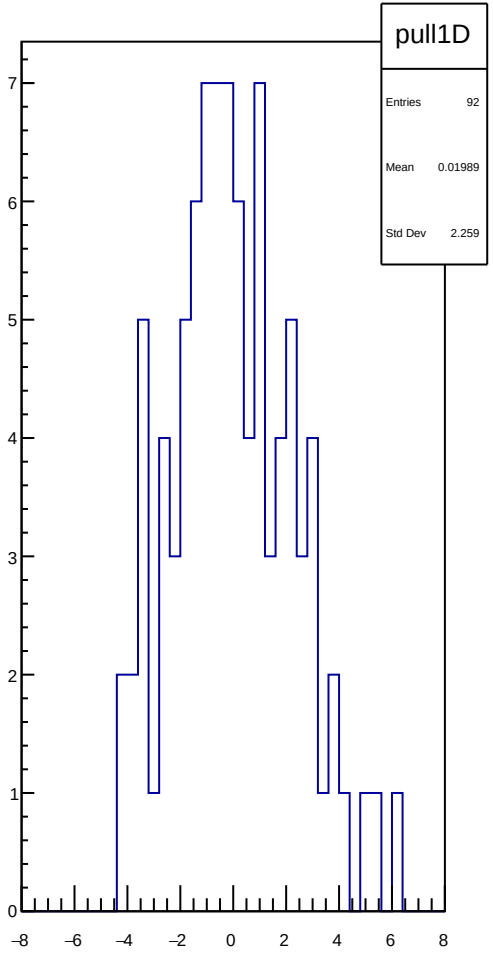

asym_bpm1i02WS_rms vs run
χ² / ndf 5.669e+04 / 91
p0 122.9 ± 0.094
700
600
500
400
300
200
100

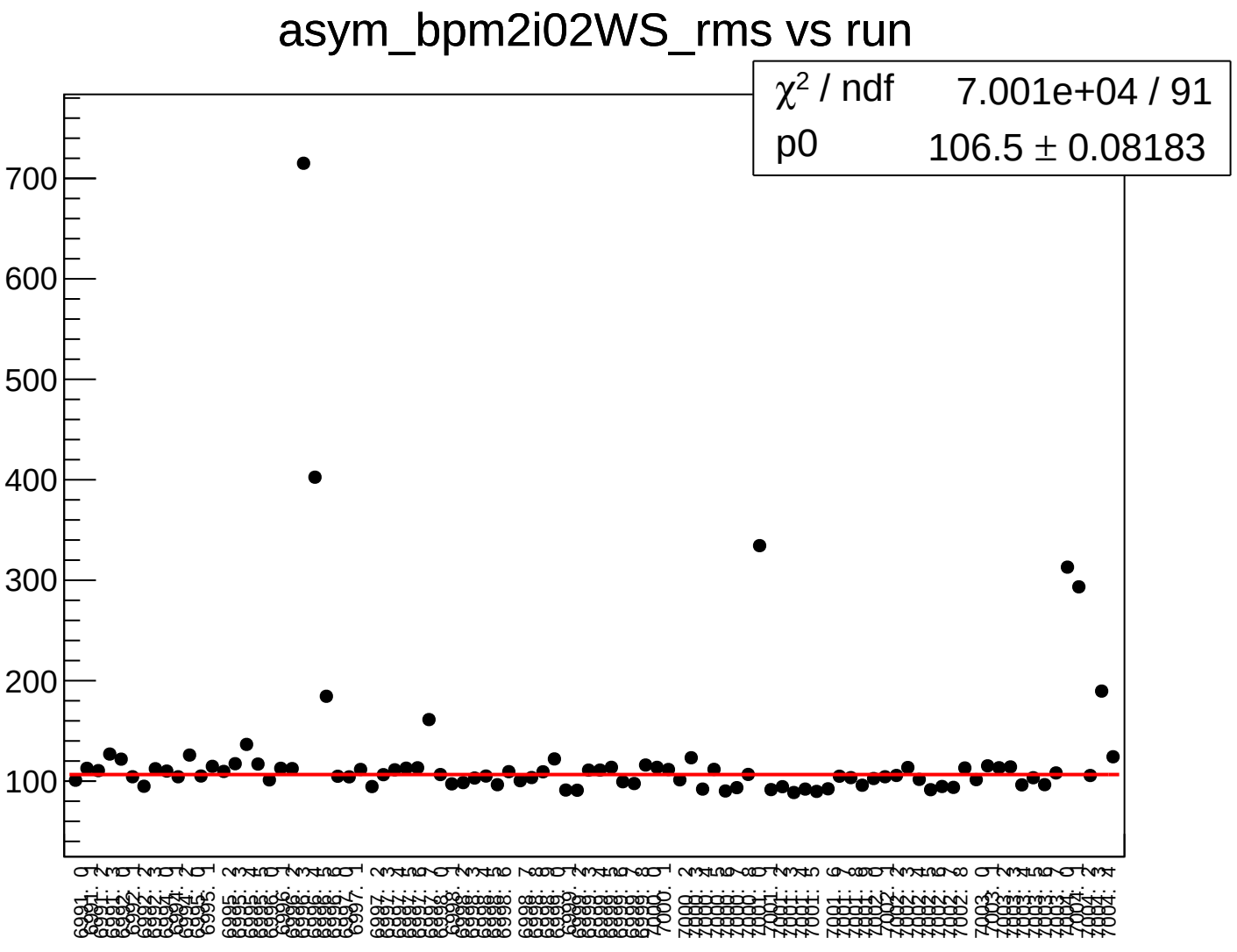

asym_bpm2i01WS_mean vs run
χ² / ndf 438.5 / 91
p0 2192 ± 118.4
pull
Entries 92
Mean 689.1
Std Dev 0

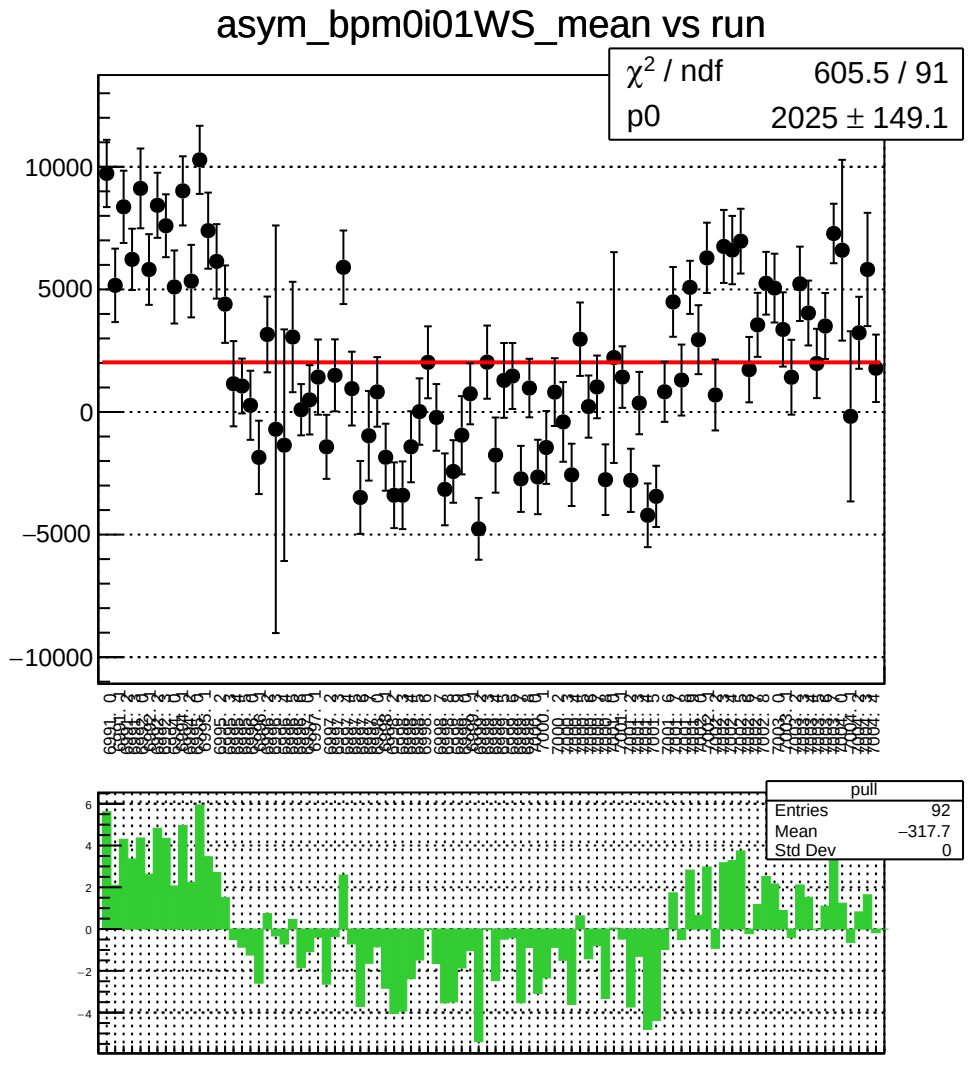

pull1D
Entries 92
Mean 0.01304
Std Dev 2.183

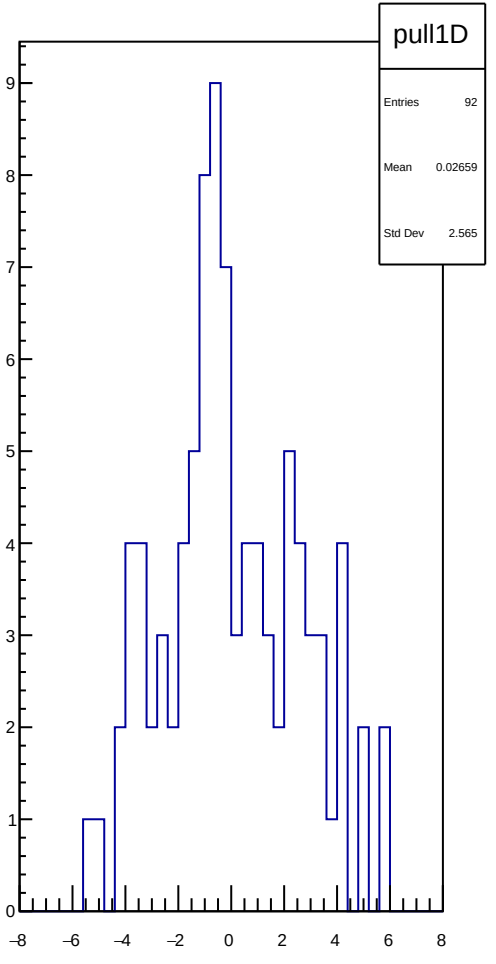

asym_bpm2i01WS_rms vs run
χ² / ndf 6.543e+04 / 91
p0 109.1 ± 0.08371
700
600
500
400
300
200
100

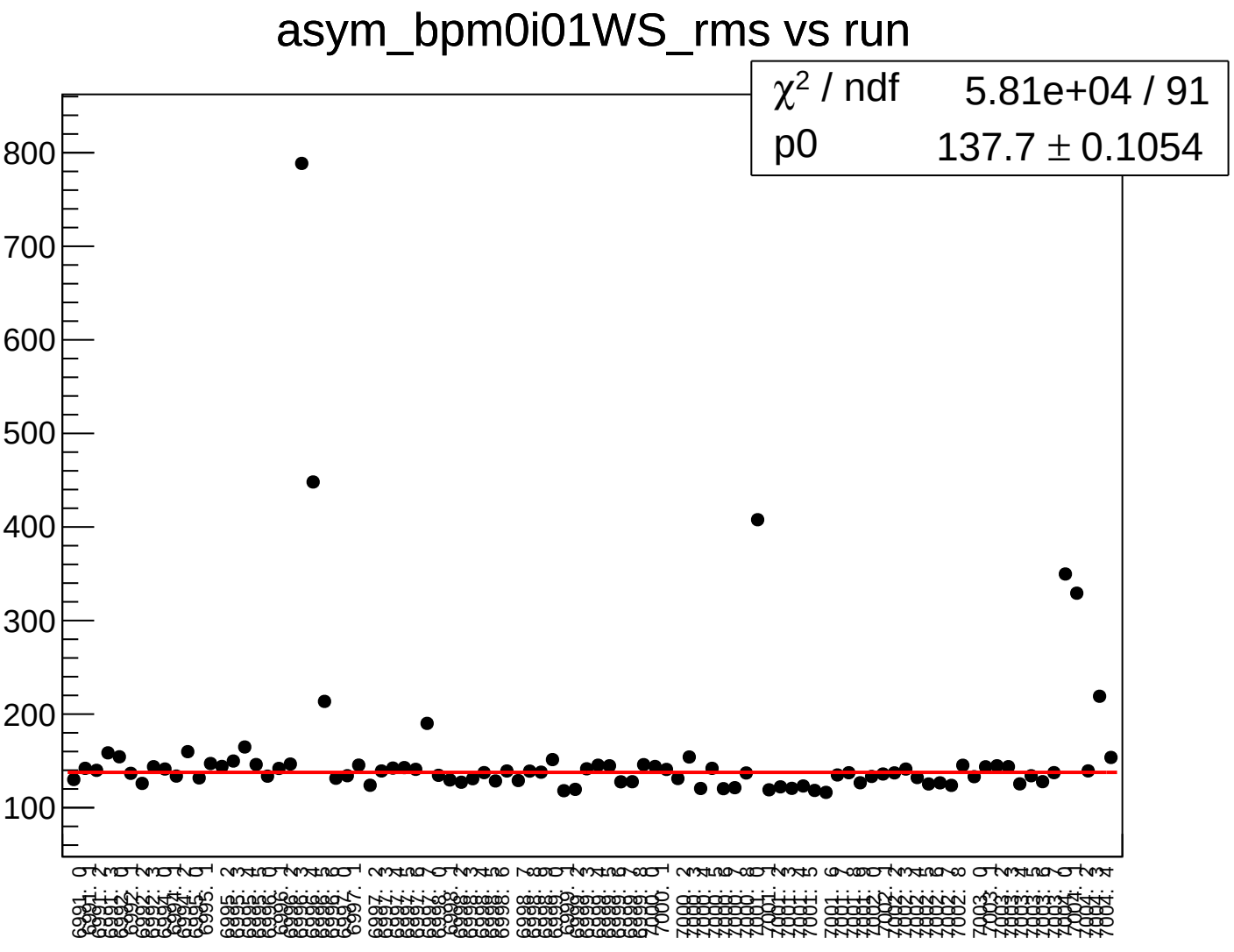

asym_bpm2i02WS_mean vs run
χ² / ndf 469.5 / 91
p0 2120 ± 115.7
pull
Entries 92
Mean 469
Std Dev 0

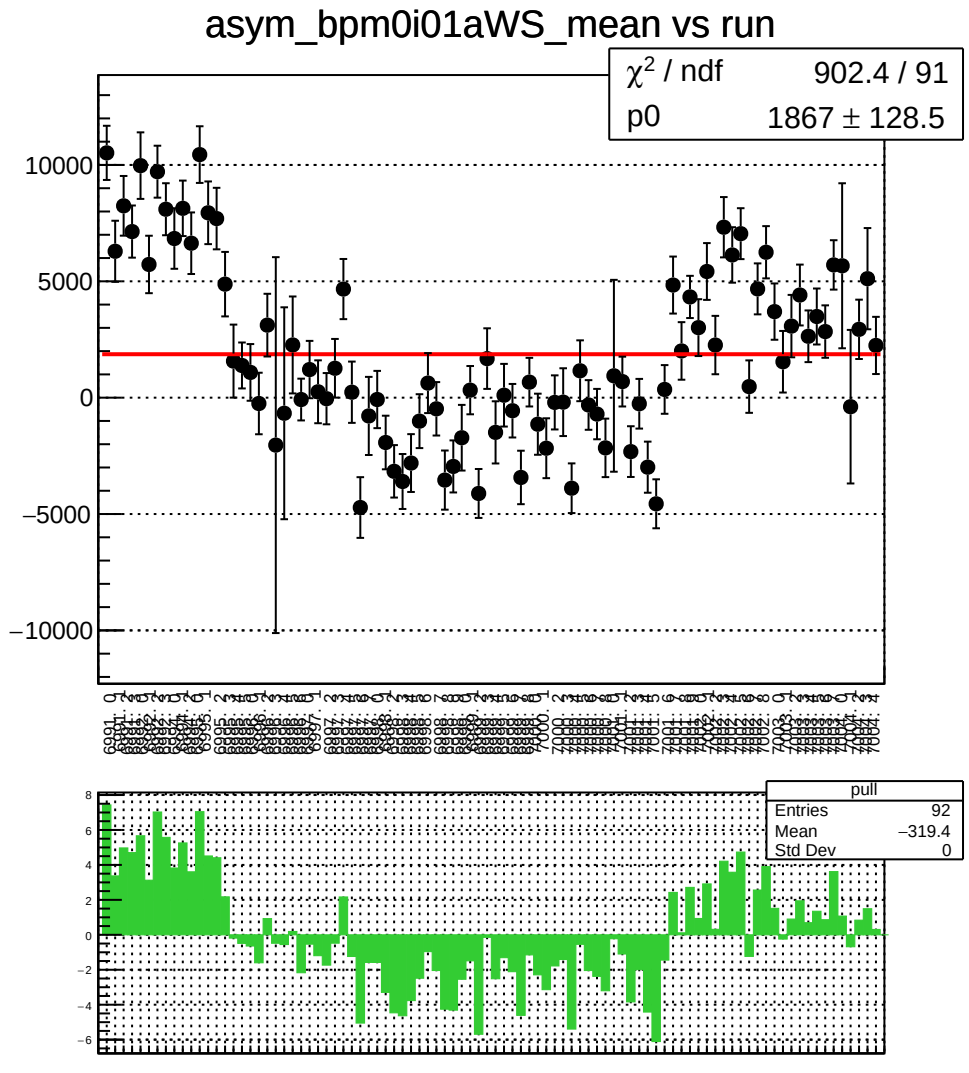

pull1D
Entries 92
Mean 0.01989
Std Dev 2.259

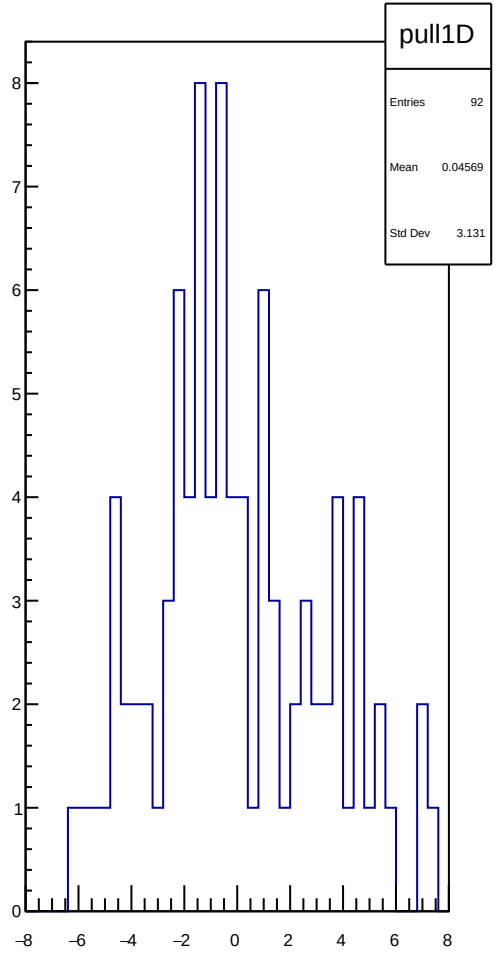

asym_bpm2i02WS_rms vs run
χ² / ndf 7.001e+04 / 91
p0 106.5 ± 0.08183
700
600
500
400
300
200
100

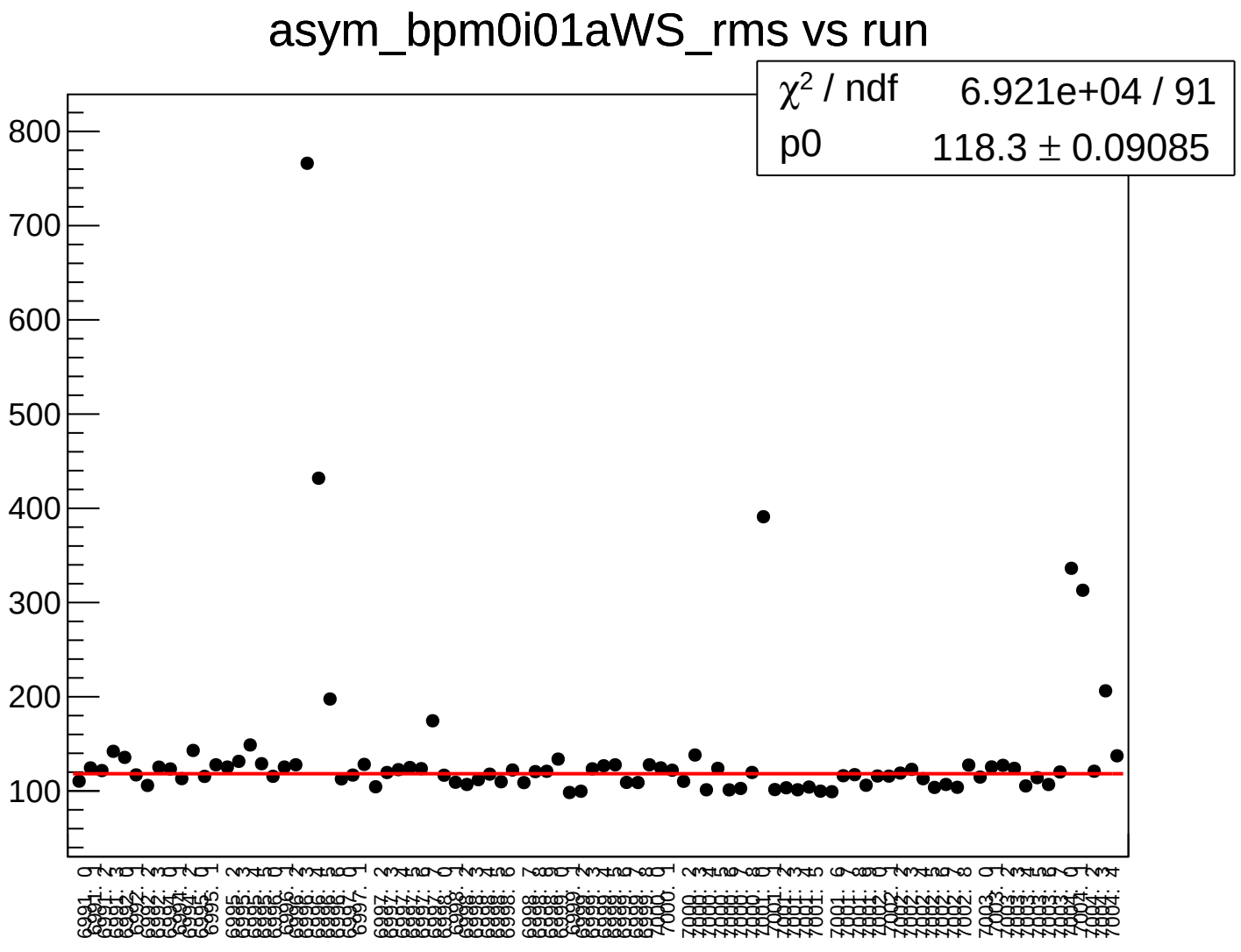

asym_bpm0i01WS_mean vs run
χ² / ndf 605.5 / 91
p0 2025 ± 149.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −317.7
Std Dev 0
6
4
2
0
−2
−4

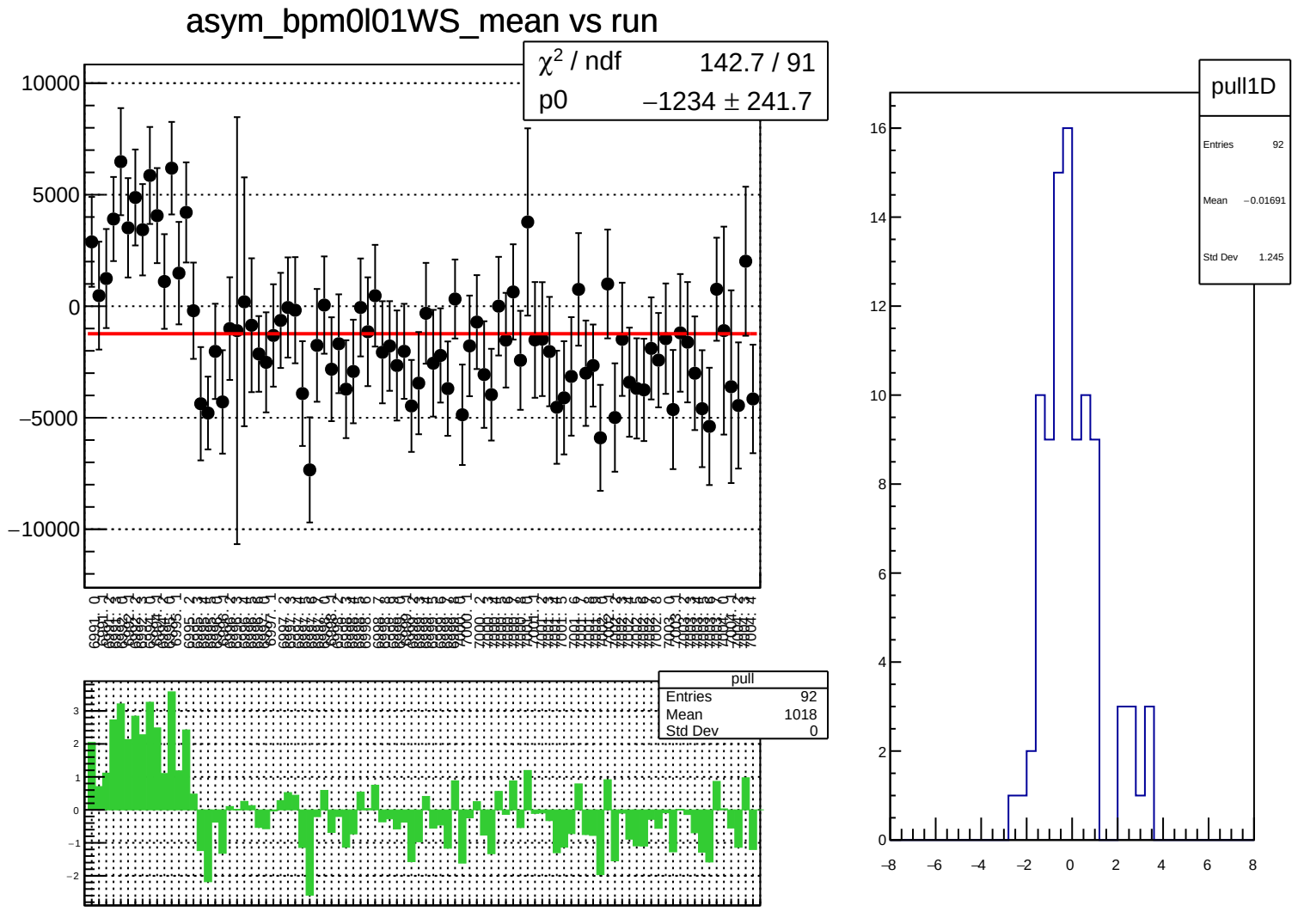

pull1D
Entries 92
Mean 0.02659
Std Dev 2.565
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

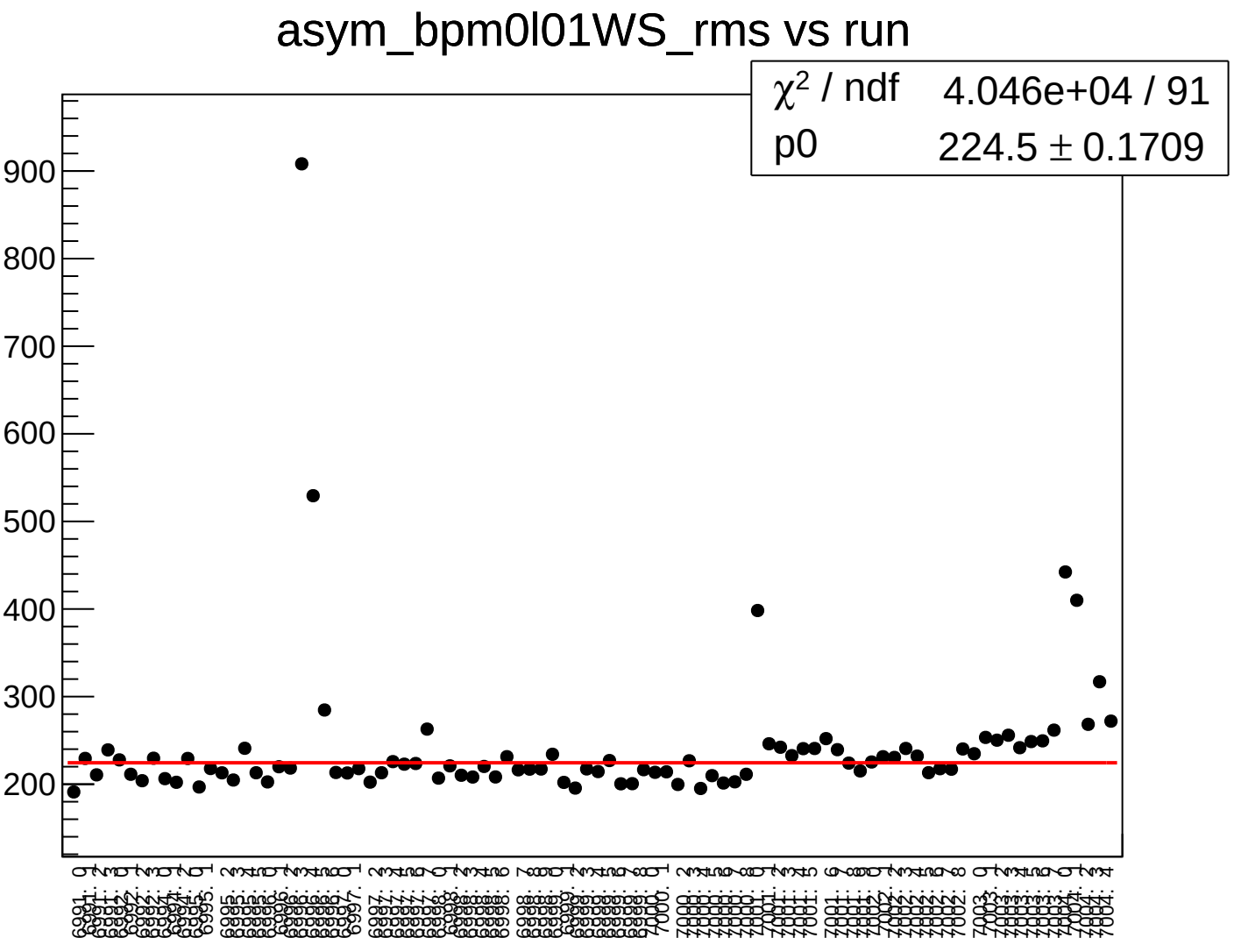

asym_bpm0i01WS_rms vs run
χ^2 / ndf 5.81e+04 / 91
p0 137.7 ± 0.1054
800
700
600
500
400
300
200
100

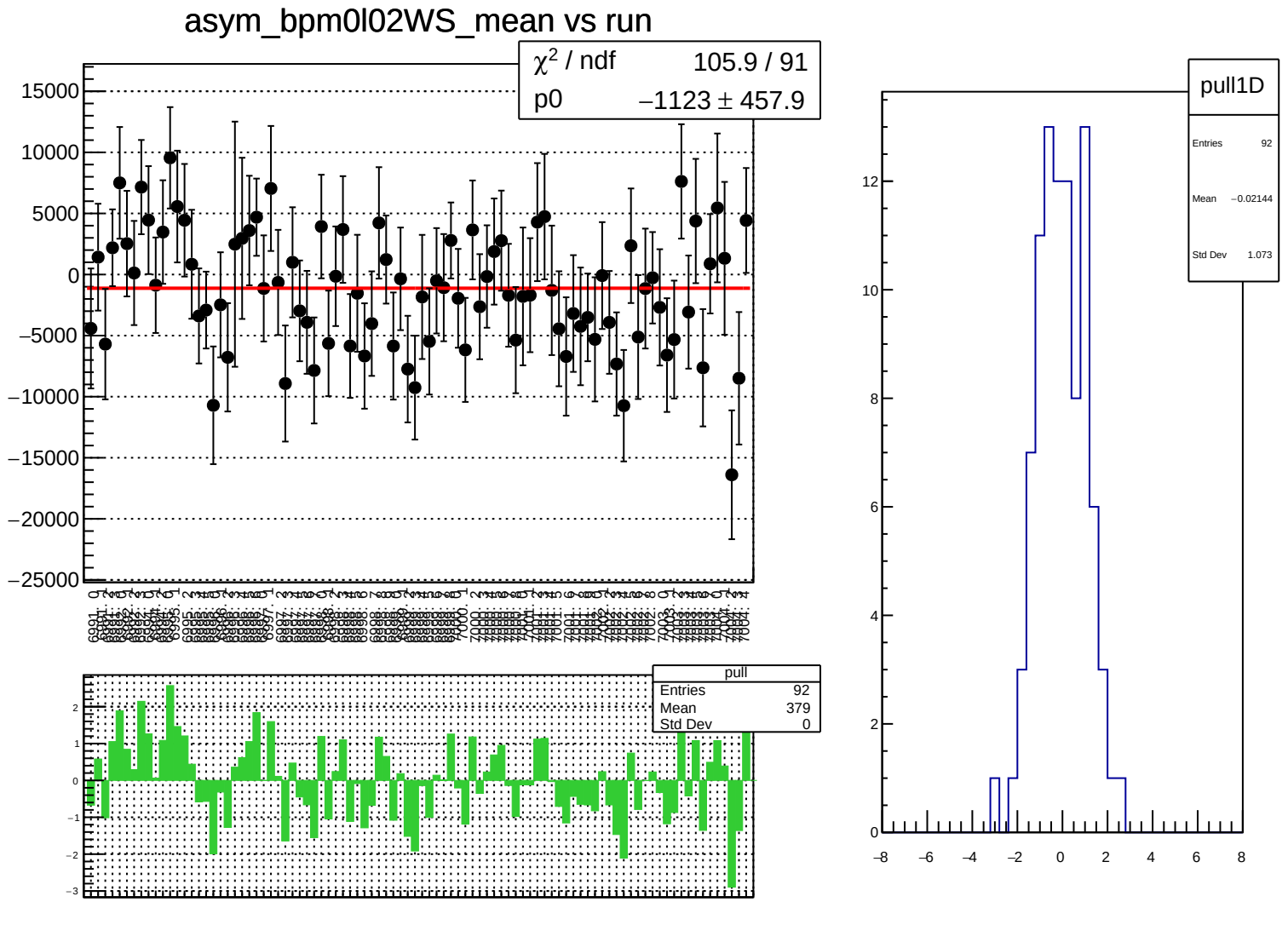

asym_bpm0i01aWS_mean vs run
χ² / ndf 902.4 / 91
p0 1867 ± 128.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −319.4
Std Dev 0

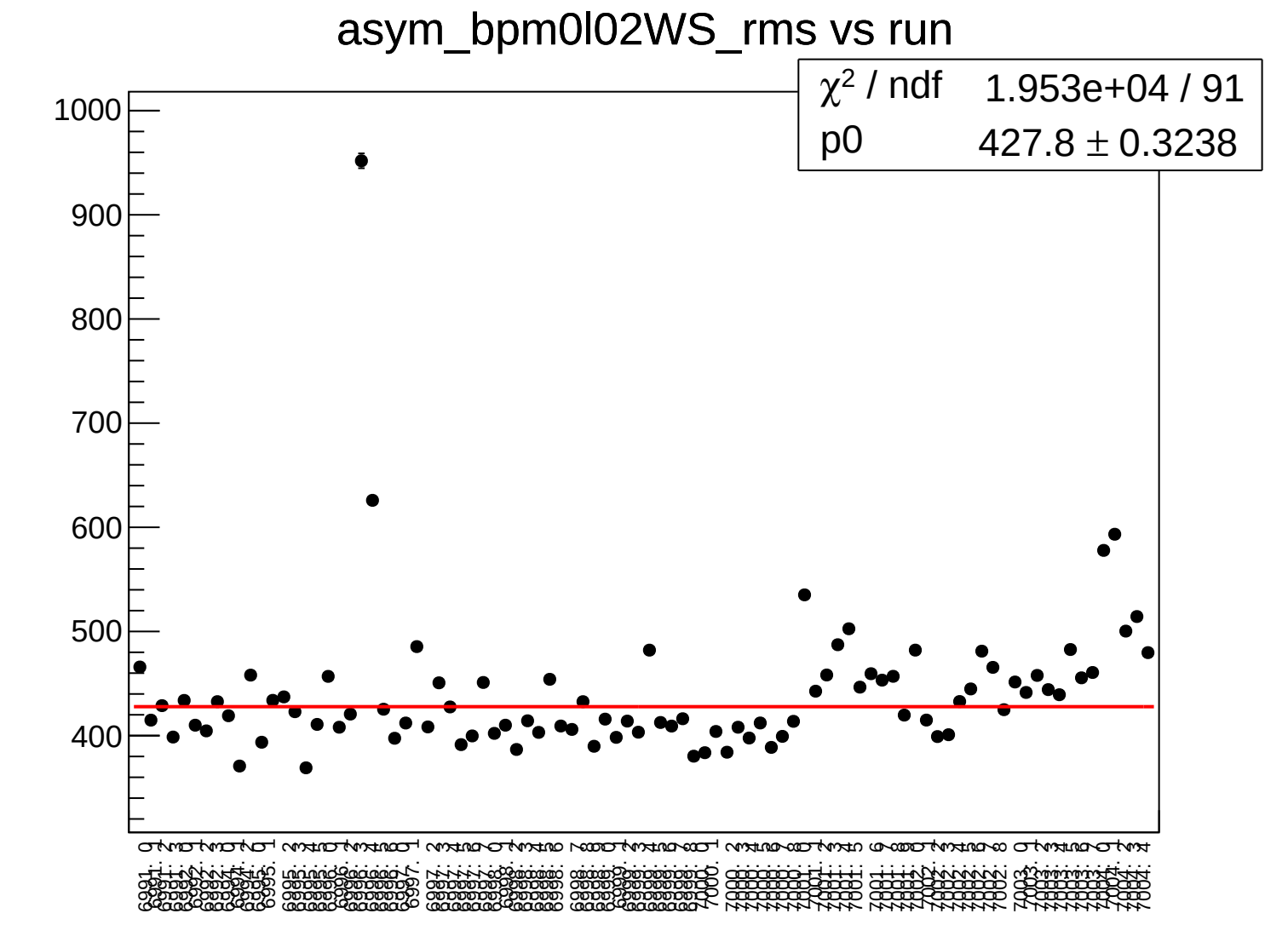

pull1D
Entries 92
Mean 0.04569
Std Dev 3.131

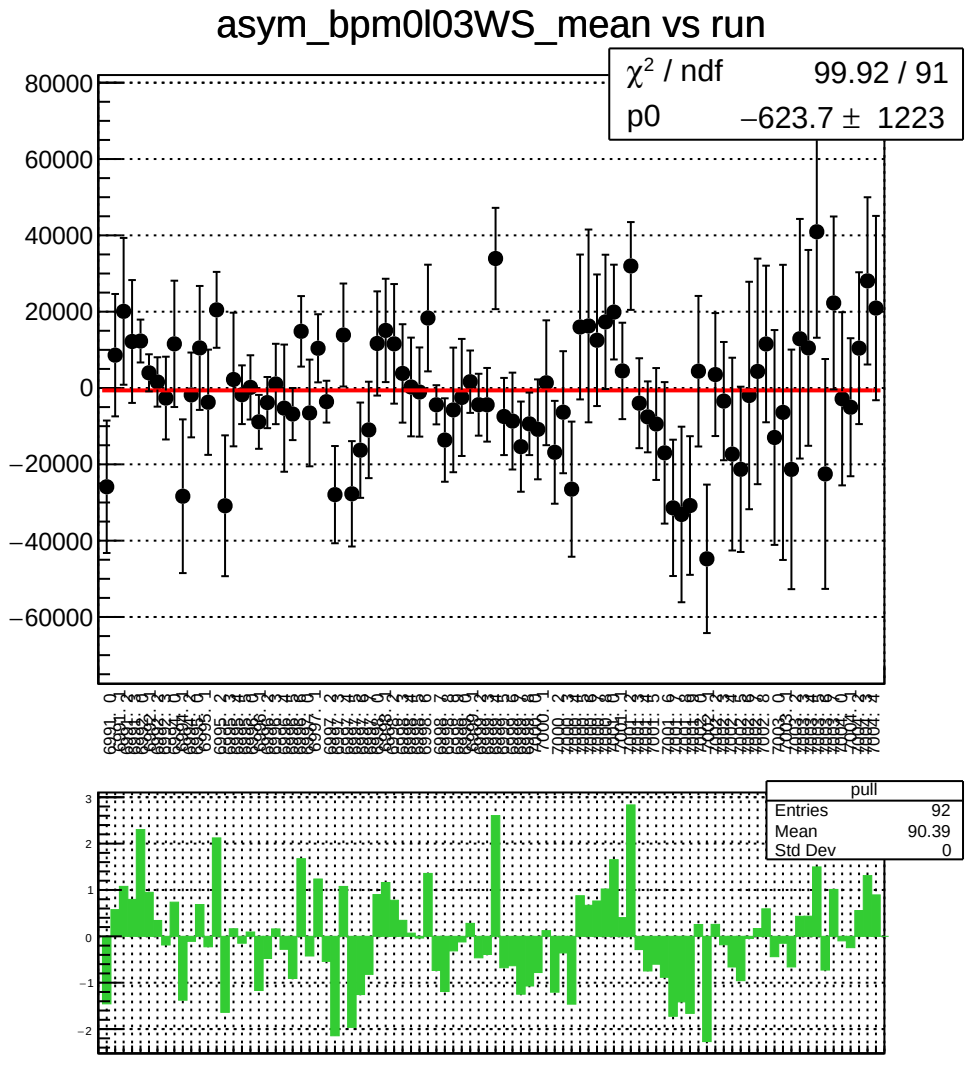

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 6.921e+04 / 91
p0 118.3 ± 0.09085
800
700
600
500
400
300
200
100

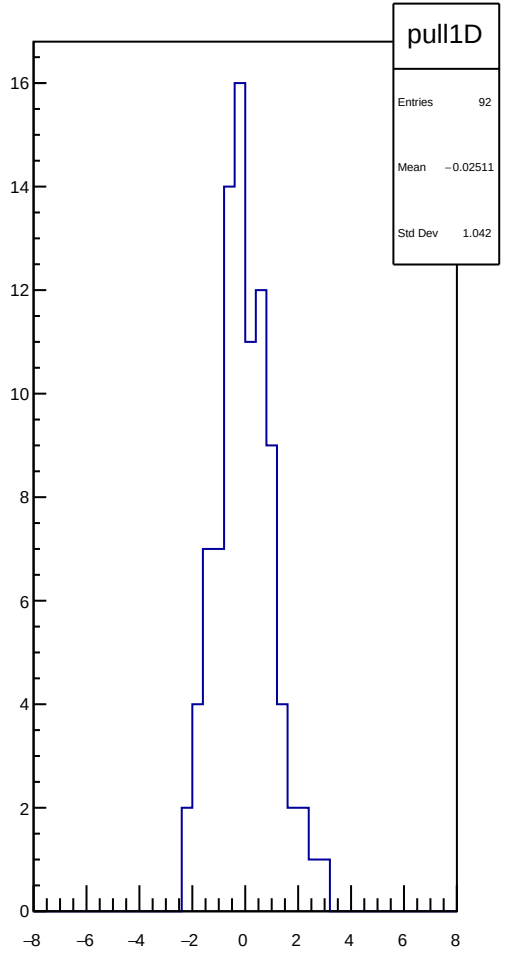

asym_bpm0l01WS_mean vs run
χ² / ndf 142.7 / 91
p0 −1234 ± 241.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 1018
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01691
Std Dev 1.245
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

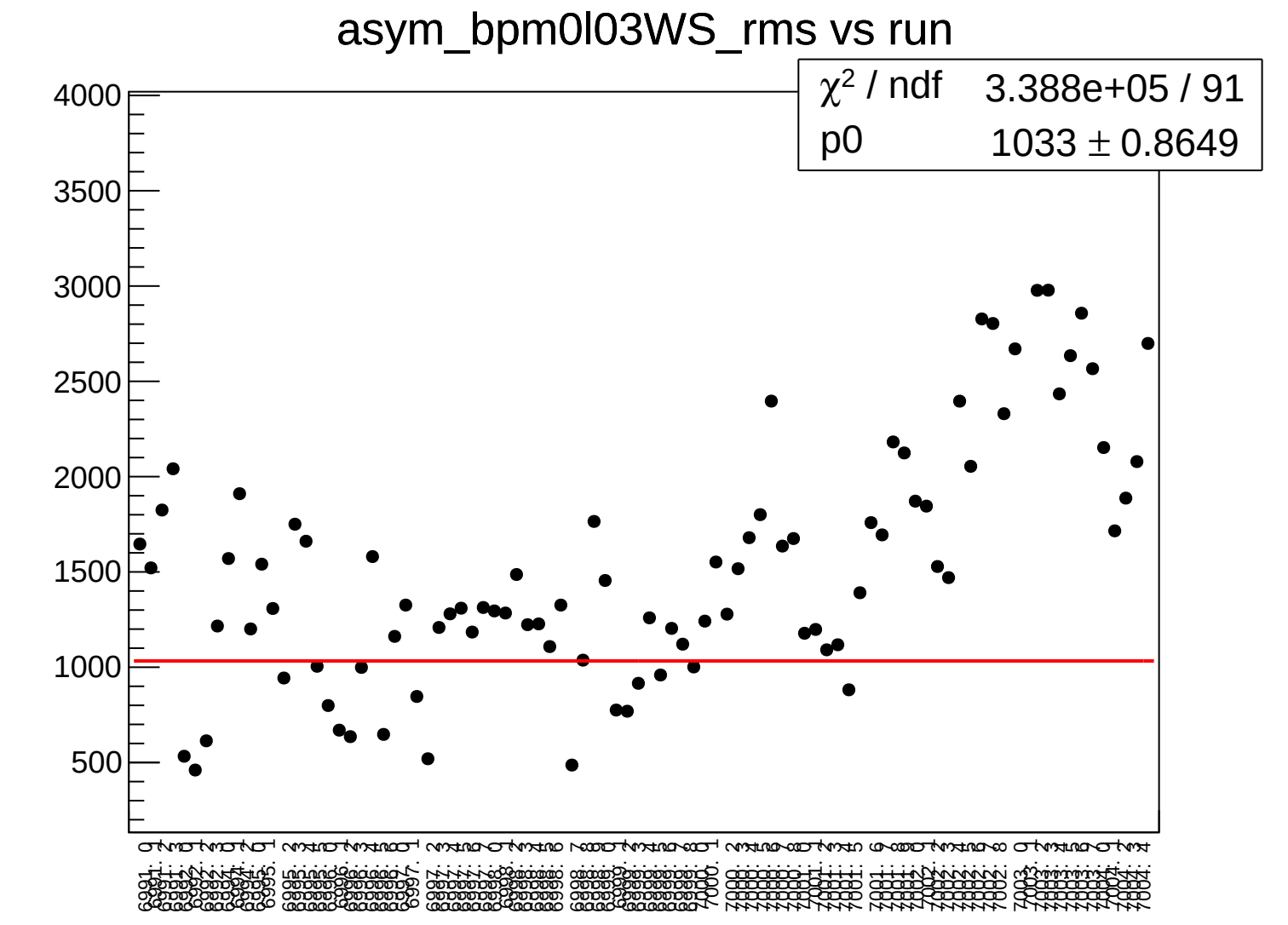

asym_bpm0l01WS_rms vs run
χ² / ndf 4.046e+04 / 91
p0 224.5 ± 0.1709
900
800
700
600
500
400
300
200

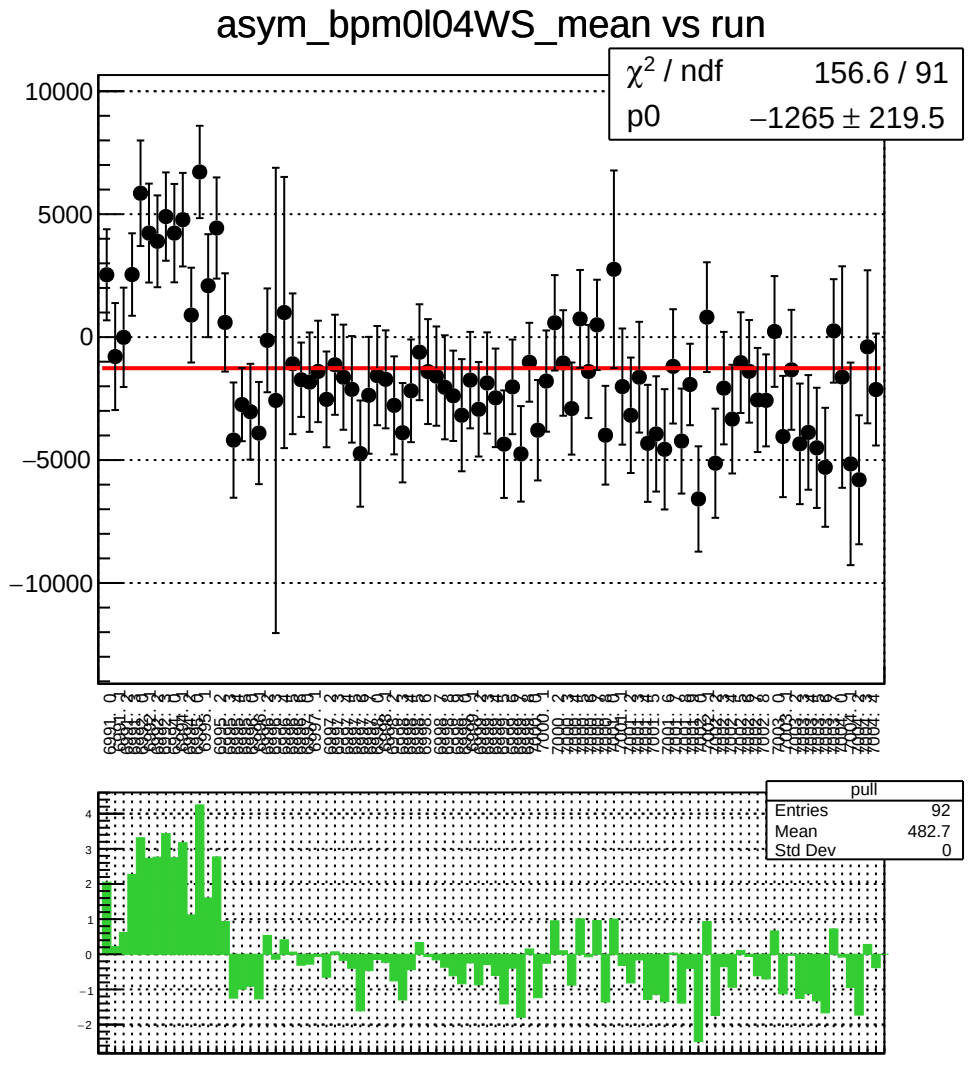

asym_bpm0l02WS_mean vs run
χ² / ndf 105.9 / 91
p0 −1123 ± 457.9
pull
Entries 92
Mean 379
Std Dev 0
pull1D
Entries 92
Mean −0.02144
Std Dev 1.073

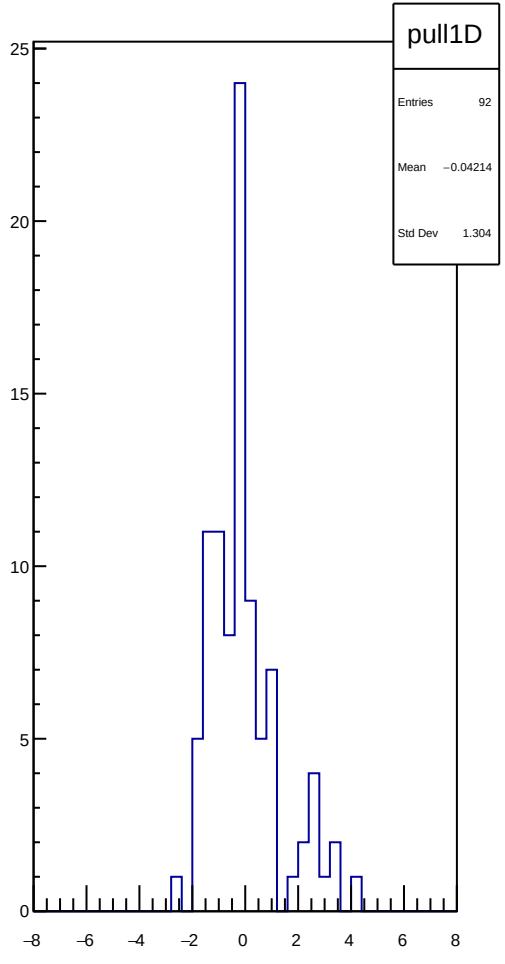

asym_bpm0l02WS_rms vs run
χ² / ndf 1.953e+04 / 91
p0 427.8 ± 0.3238
1000
900
800
700
600
500
400

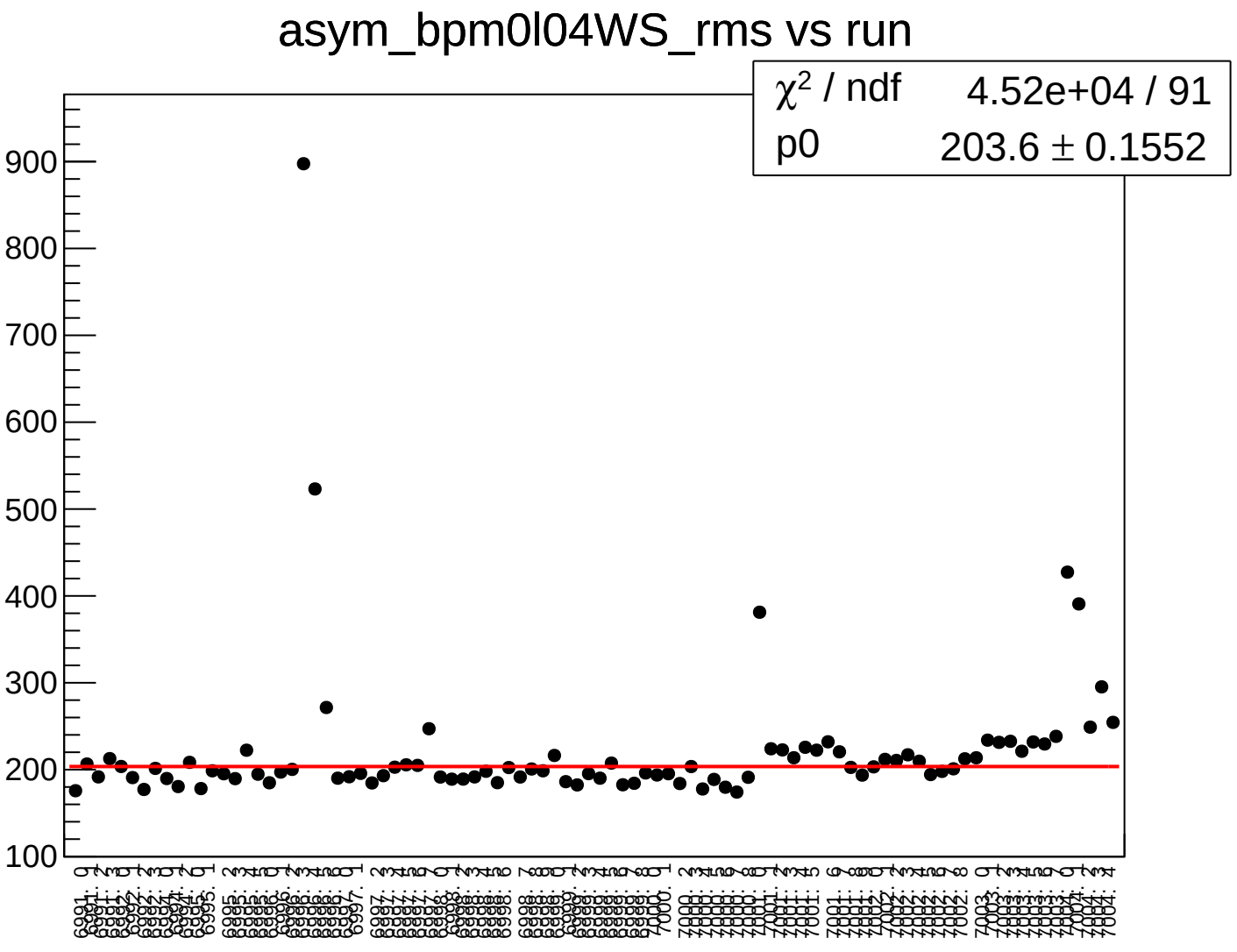

asym_bpm0l03WS_mean vs run
χ² / ndf 99.92 / 91
p0 −623.7 ± 1223
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 90.39
Std Dev 0
3
2
1
0
−1
−2

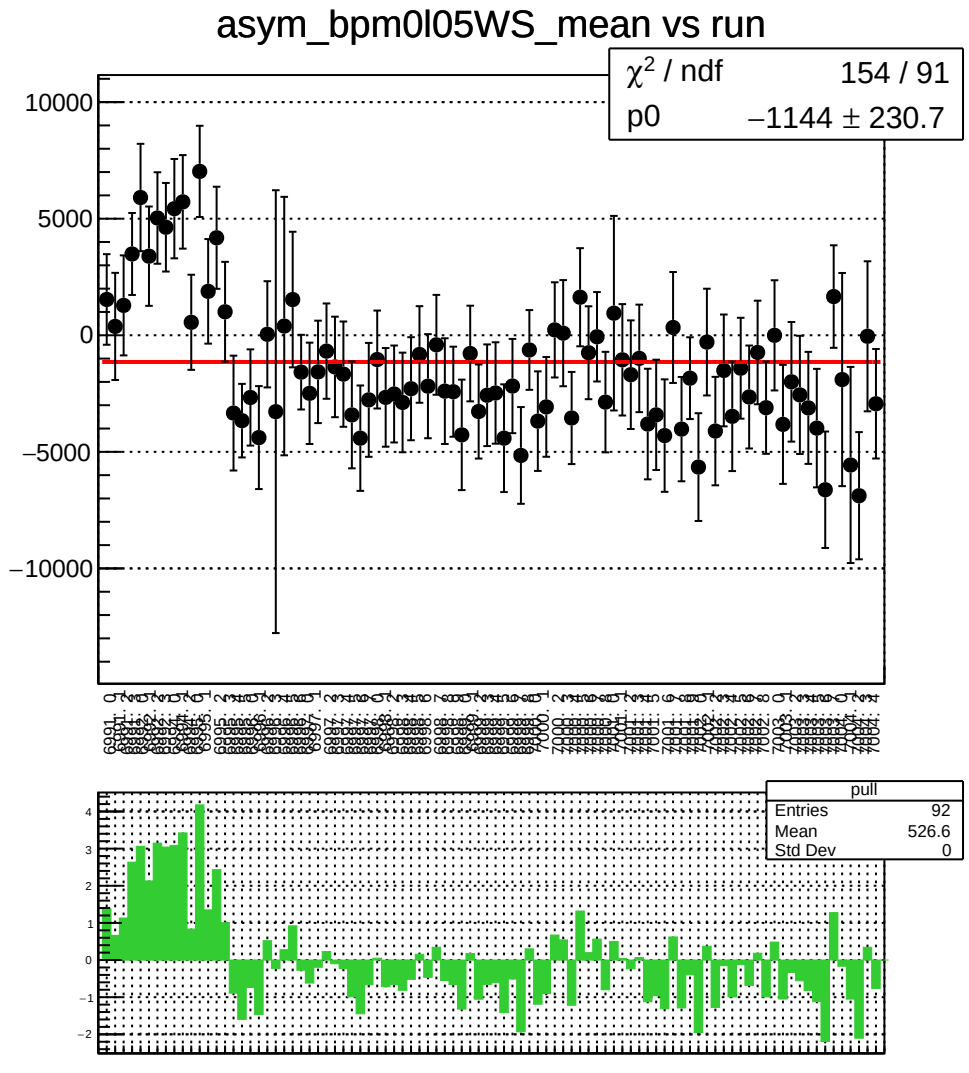

pull1D
Entries 92
Mean −0.02511
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

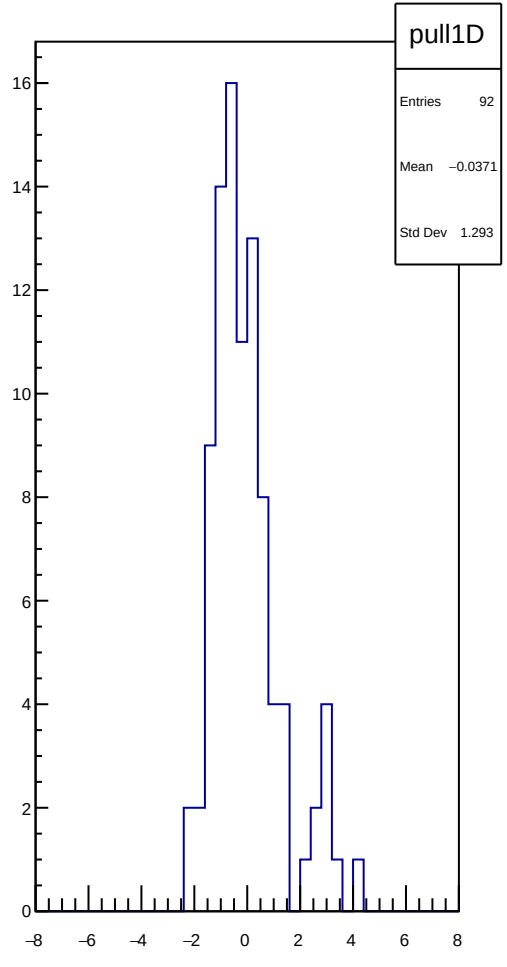

asym_bpm0l03WS_rms vs run
χ² / ndf 3.388e+05 / 91
p0 1033 ± 0.8649
4000
3500
3000
2500
2000
1500
1000
500

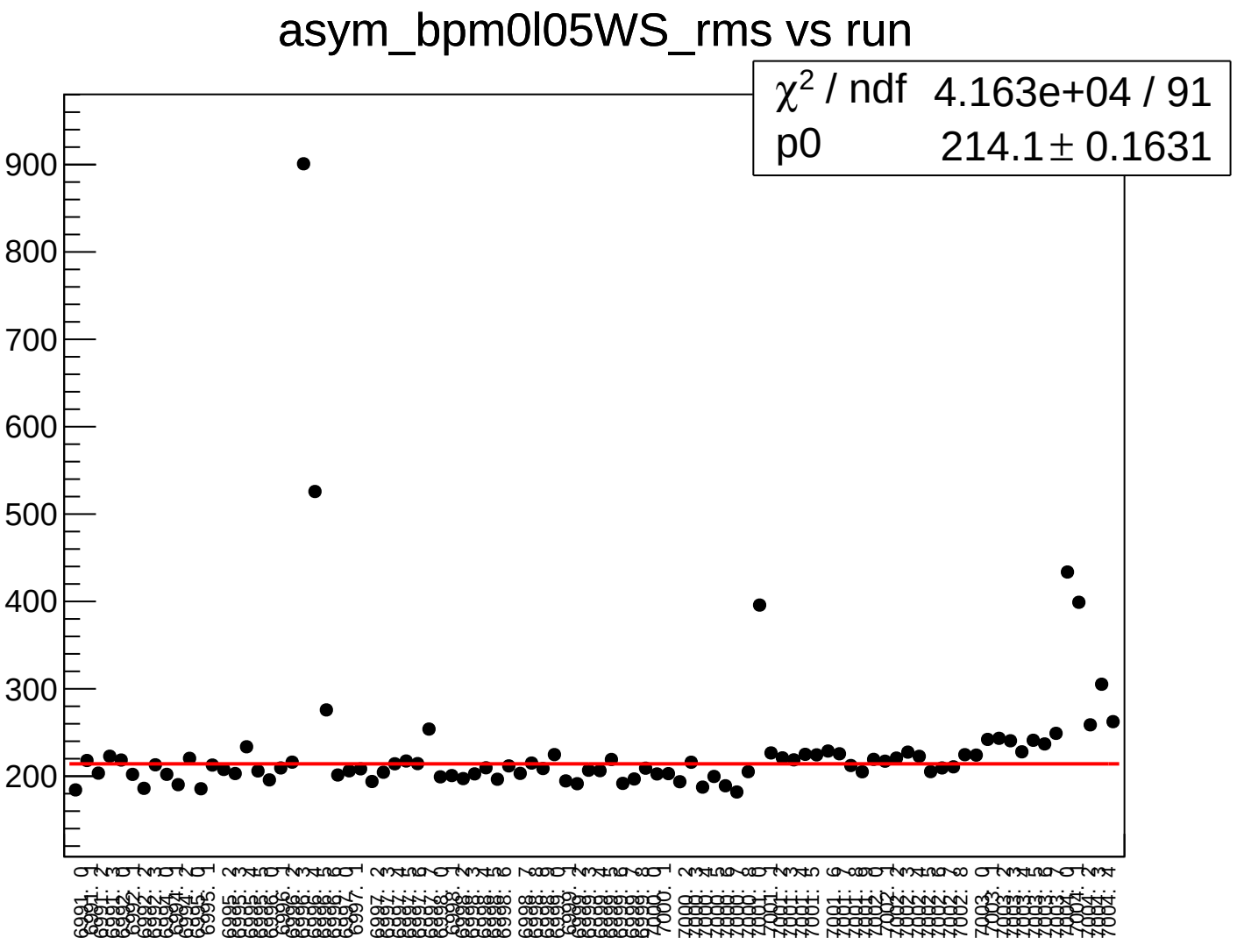

asym_bpm0l04WS_mean vs run
χ² / ndf 156.6 / 91
p0 −1265 ± 219.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 482.7
Std Dev 0
4
3
2
1
0
−1
−2

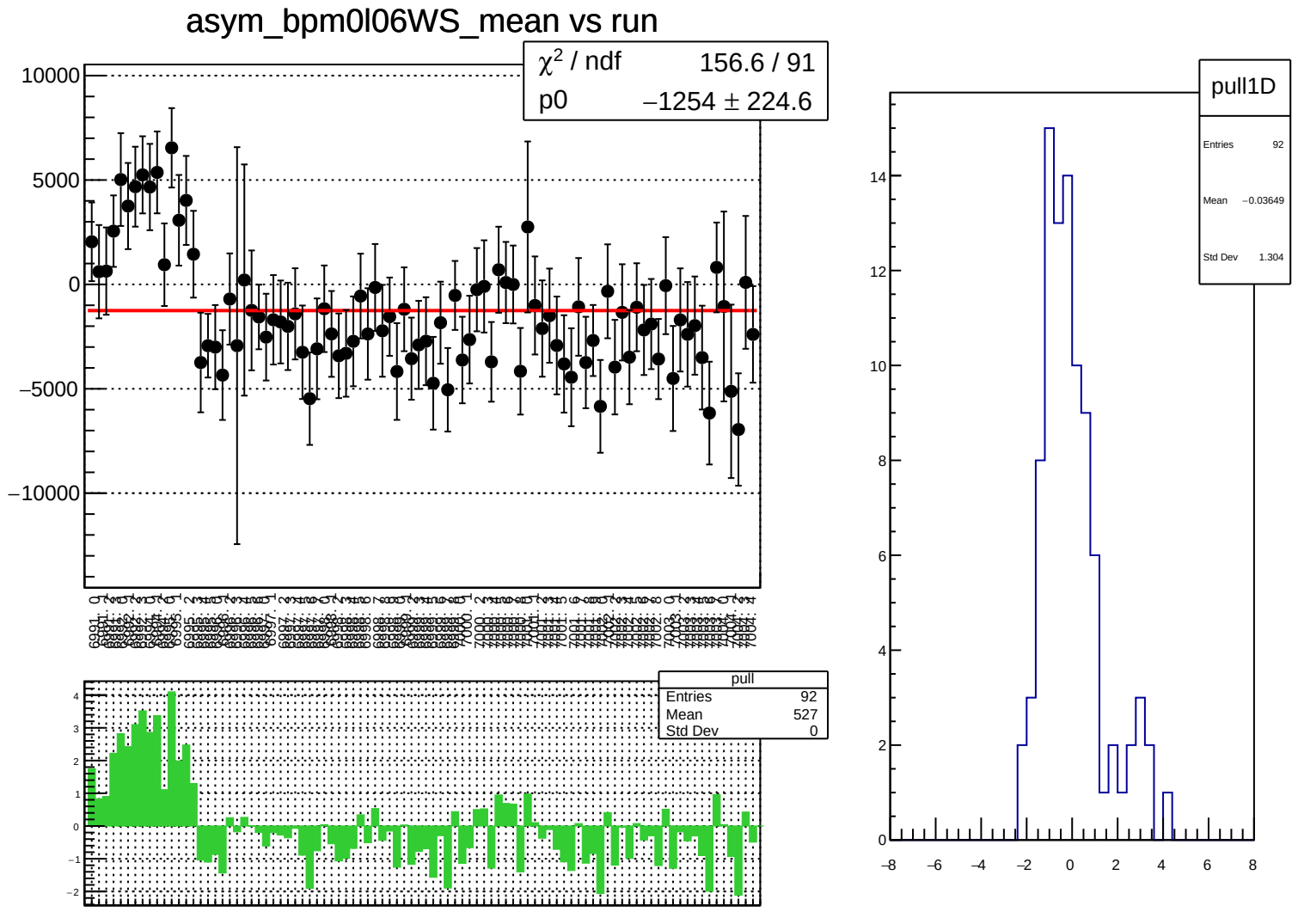

pull1D
Entries 92
Mean −0.04214
Std Dev 1.304
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

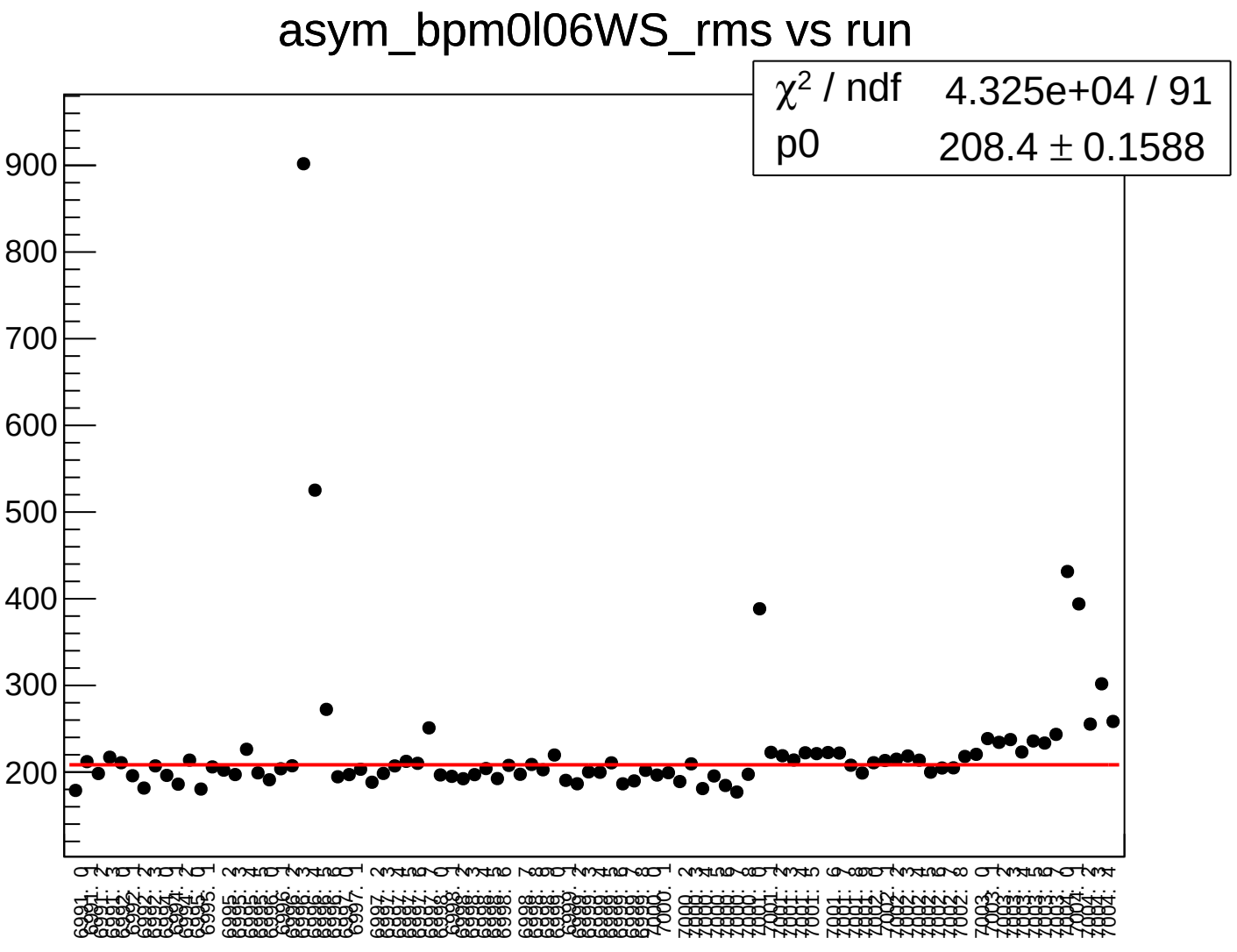

asym_bpm0l04WS_rms vs run
χ² / ndf 4.52e+04 / 91
p0 203.6 ± 0.1552
900
800
700
600
500
400
300
200
100

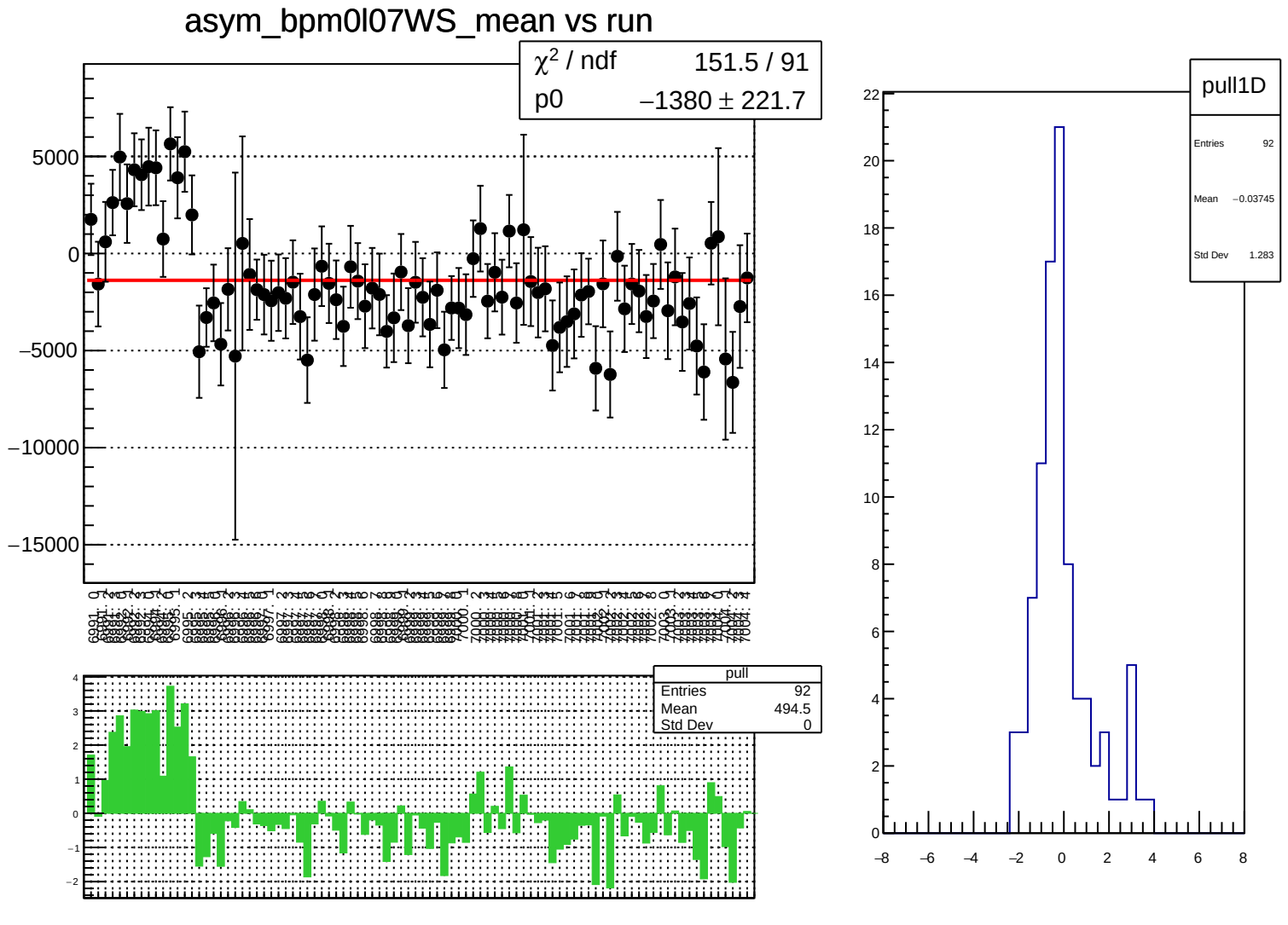

asym_bpm0l05WS_mean vs run
χ² / ndf 154 / 91
p0 −1144 ± 230.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 526.6
Std Dev 0
4
3
2
1
0
−1
−2

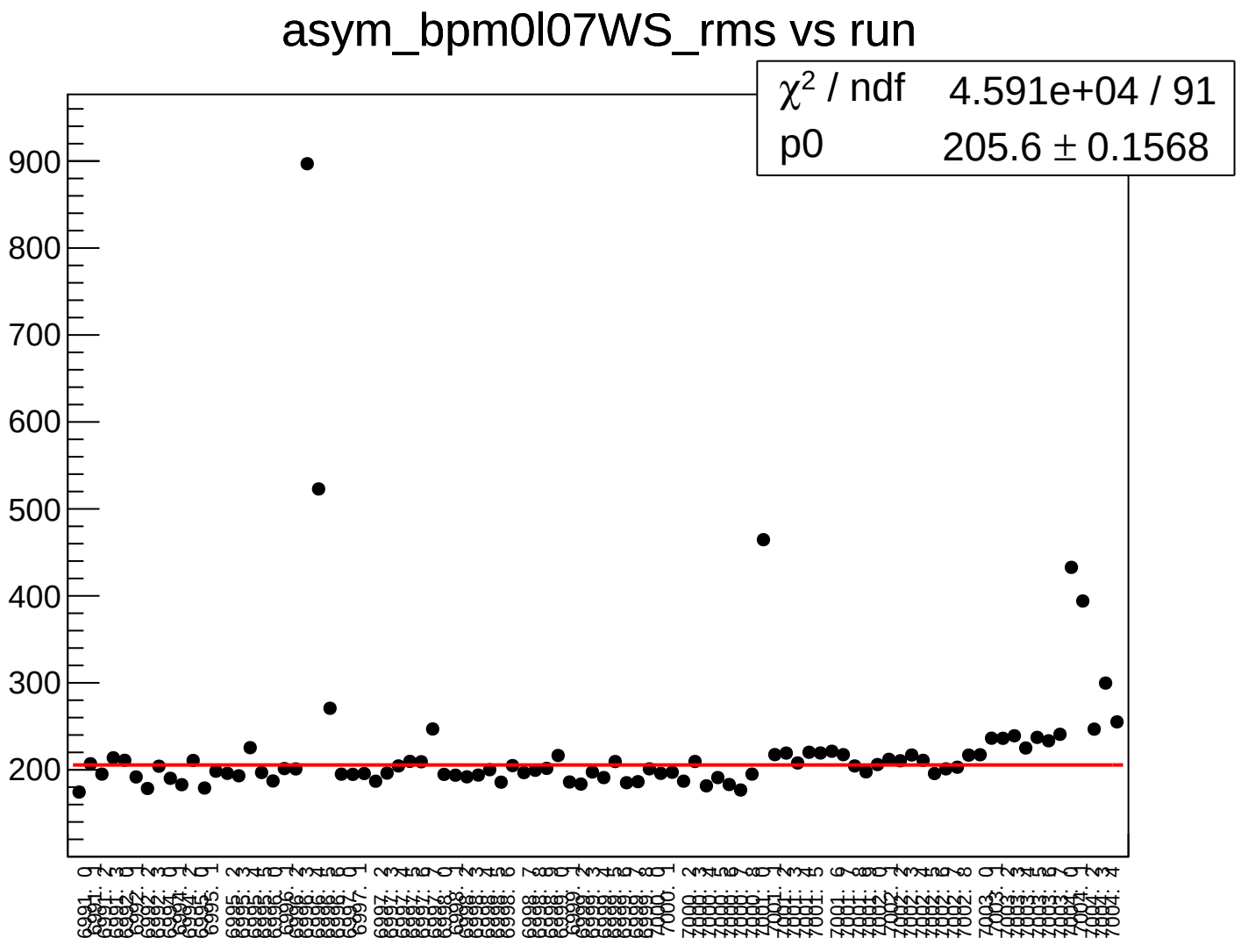

pull1D
Entries 92
Mean −0.0371
Std Dev 1.293
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

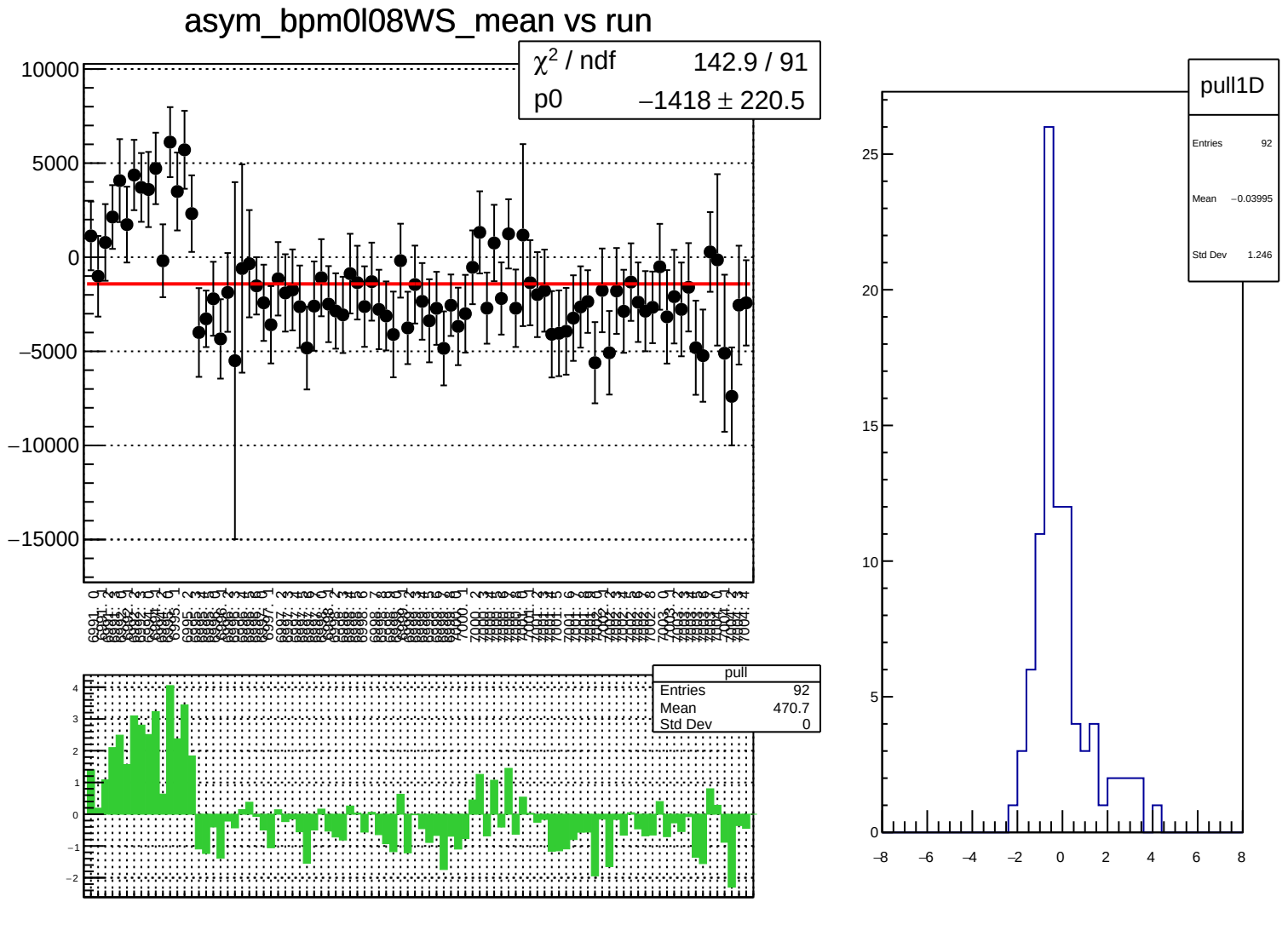

asym_bpm0l05WS_rms vs run
χ² / ndf 4.163e+04 / 91
p0 214.1 ± 0.1631
900
800
700
600
500
400
300
200

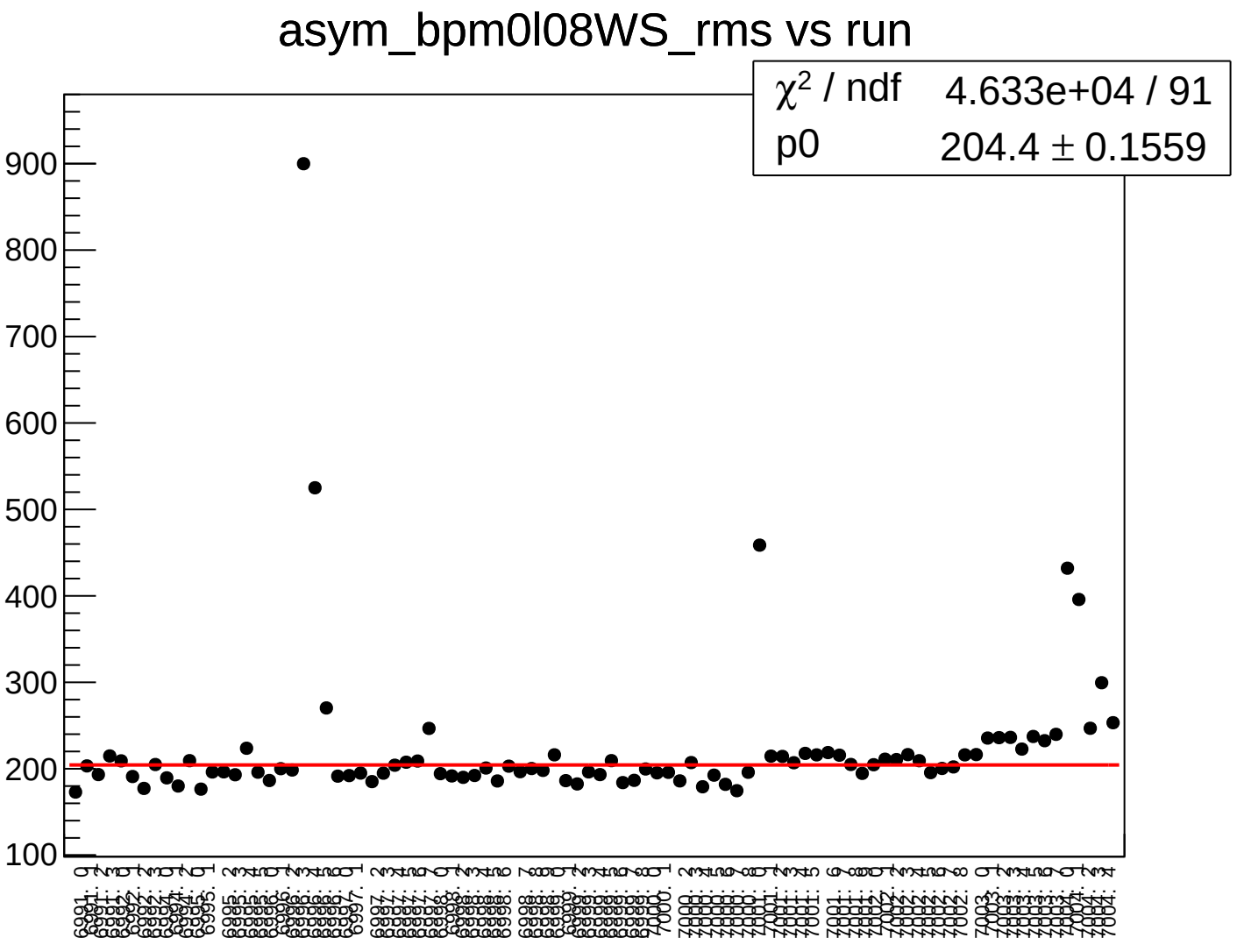

asym_bpm0l06WS_mean vs run
χ² / ndf 156.6 / 91
p0 −1254 ± 224.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 527
Std Dev 0
pull1D
Entries 92
Mean −0.03649
Std Dev 1.304

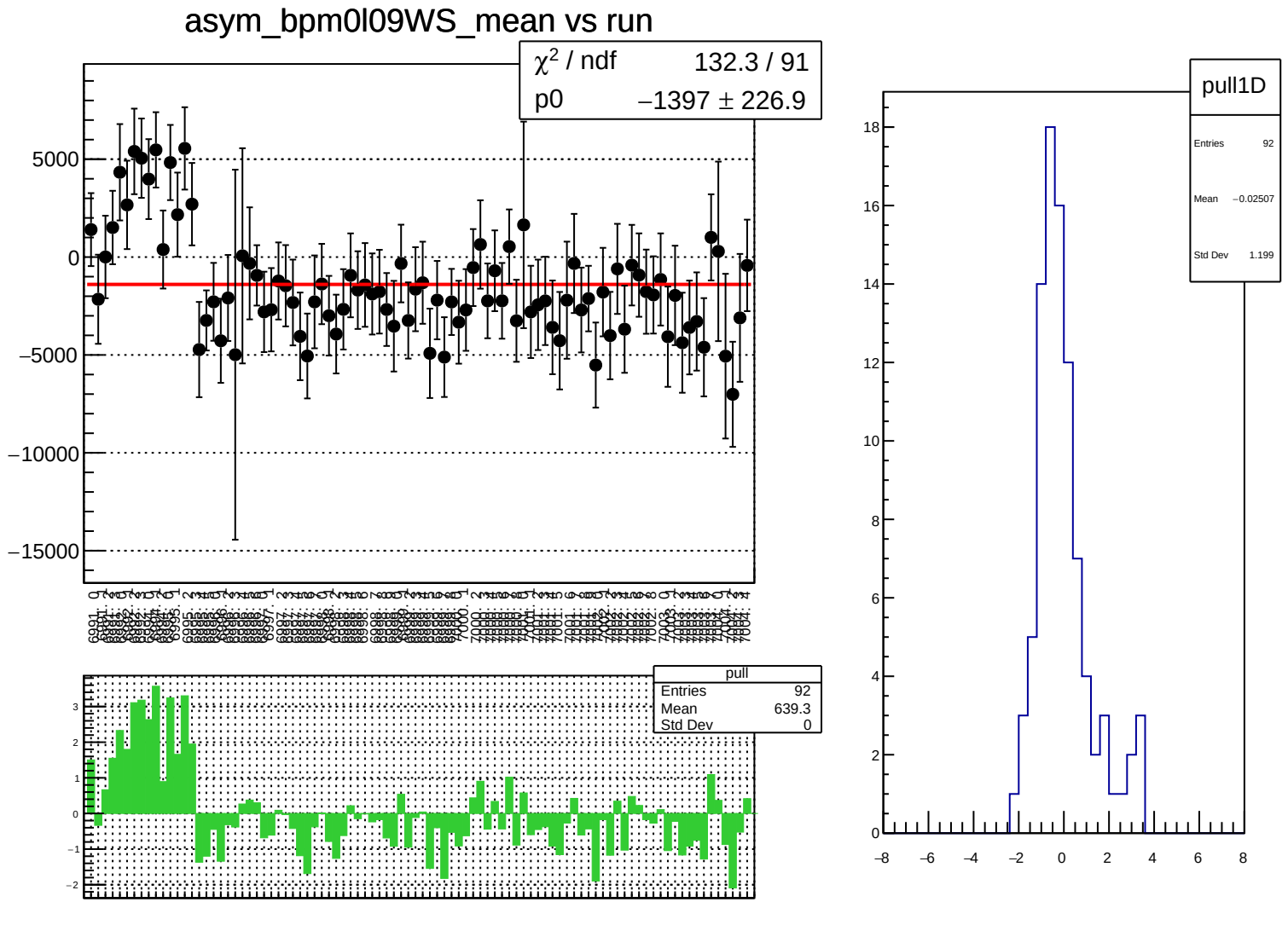

asym_bpm0l06WS_rms vs run
χ² / ndf 4.325e+04 / 91
p0 208.4 ± 0.1588
900
800
700
600
500
400
300
200

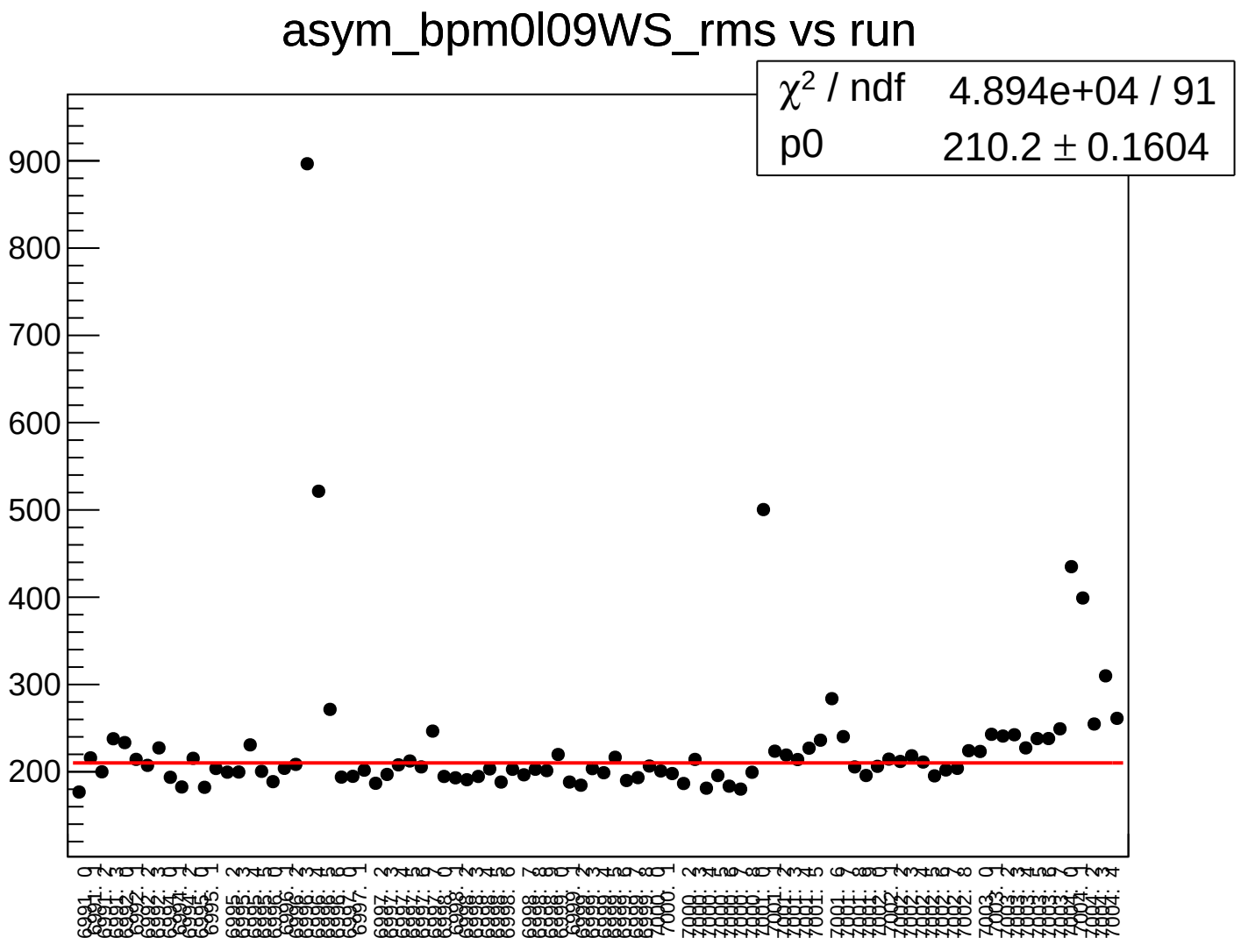

asym_bpm0l07WS_mean vs run
χ² / ndf 151.5 / 91
p0 −1380 ± 221.7
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 494.5
Std Dev 0
pull1D
Entries 92
Mean −0.03745
Std Dev 1.283

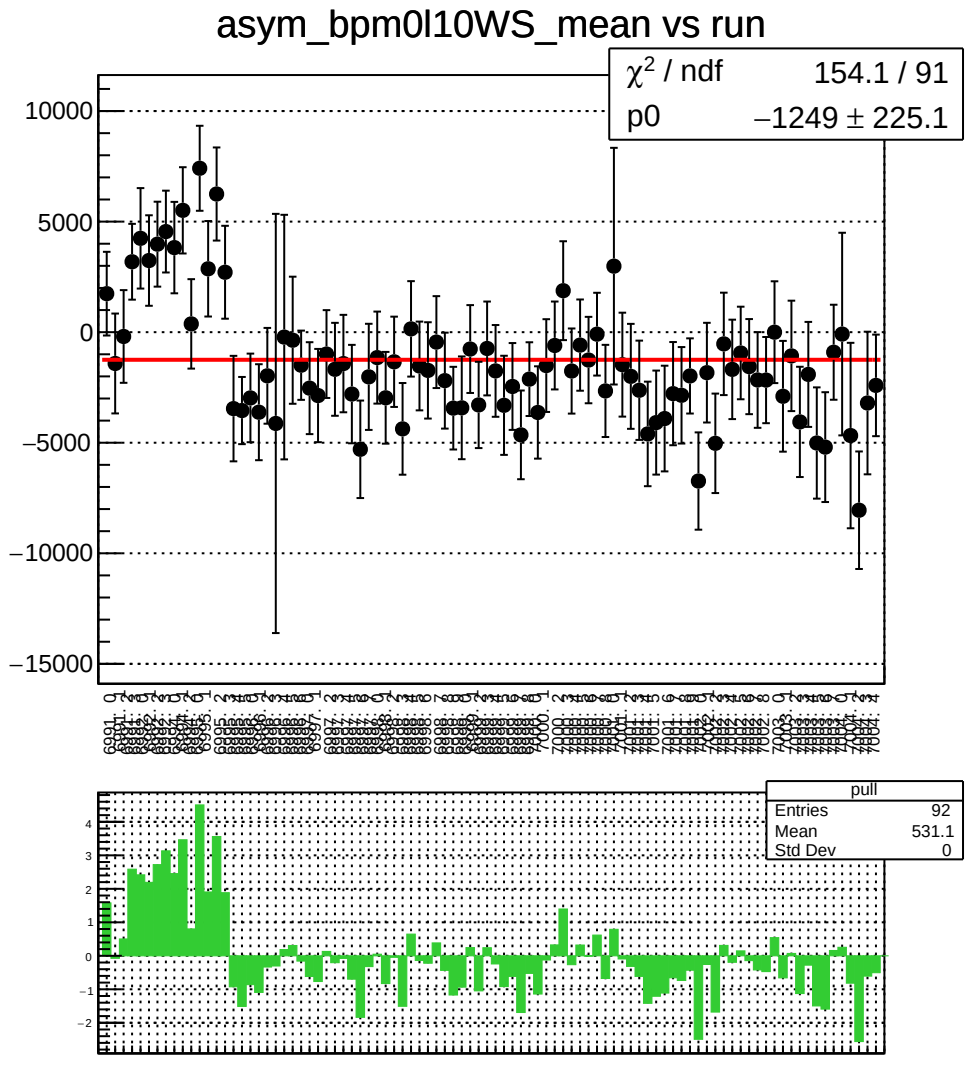

asym_bpm0l07WS_rms vs run
χ² / ndf 4.591e+04 / 91
p0 205.6 ± 0.1568
900
800
700
600
500
400
300
200

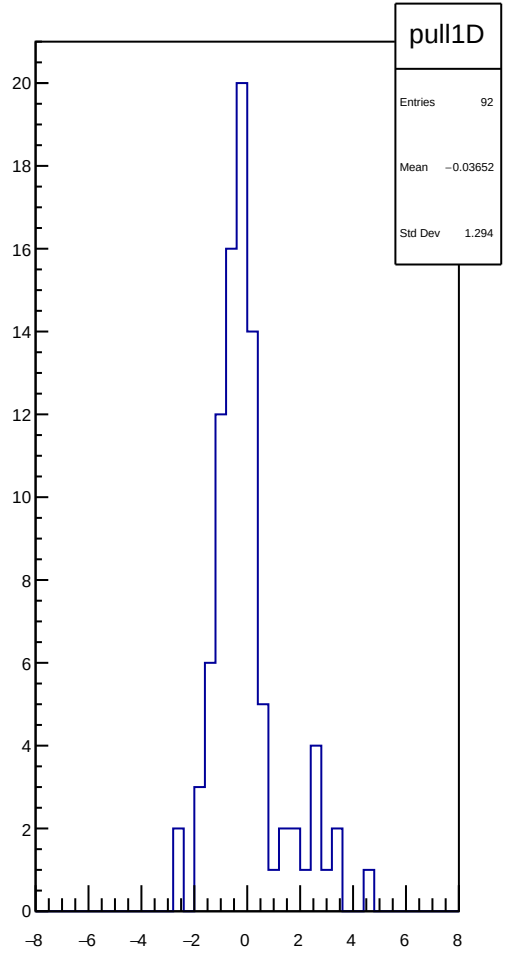

asym_bpm0l08WS_mean vs run
χ^2 / ndf 142.9 / 91
p0 −1418 ± 220.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 470.7
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.03995
Std Dev 1.246
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

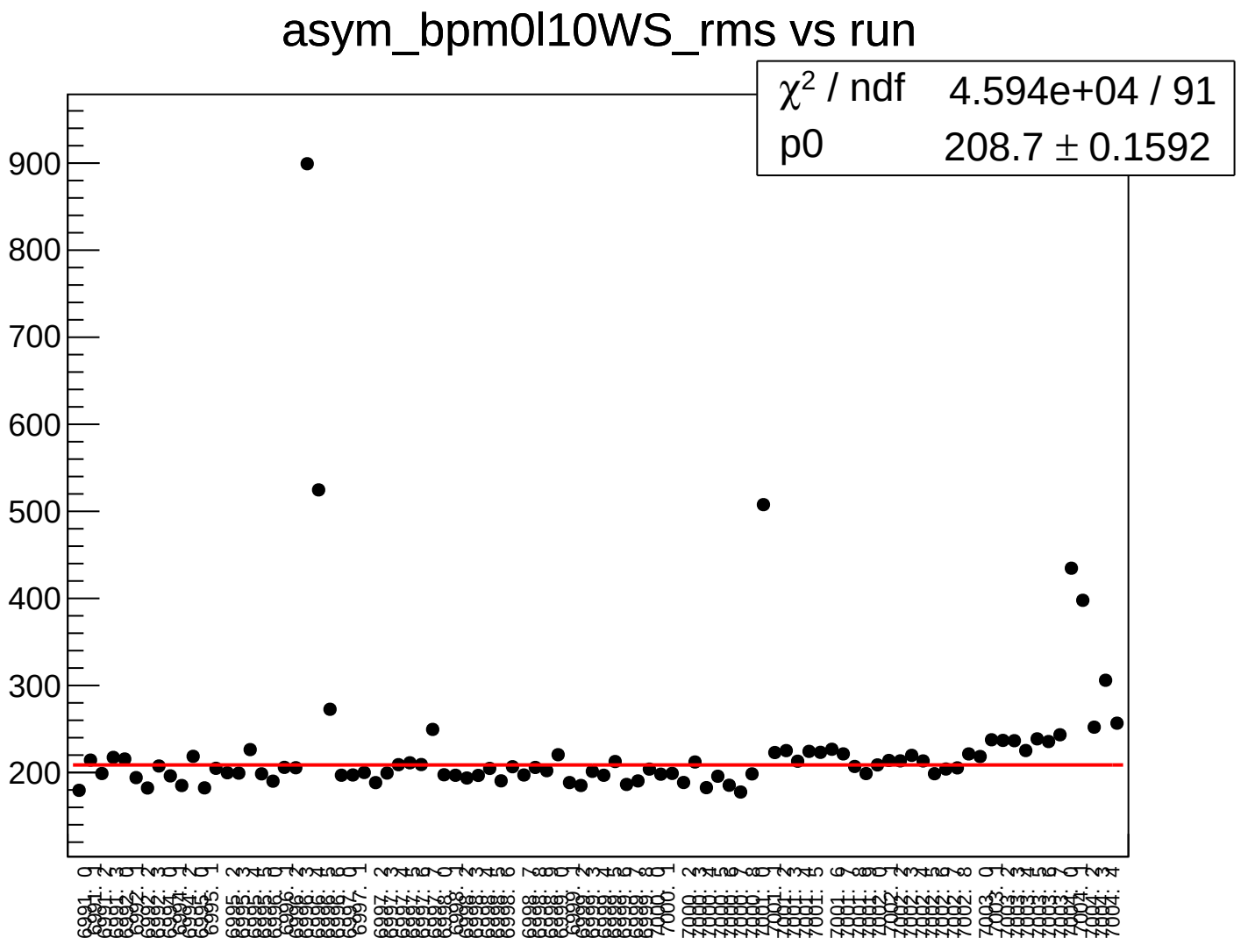

asym_bpm0l08WS_rms vs run
χ² / ndf 4.633e+04 / 91
p0 204.4 ± 0.1559
900
800
700
600
500
400
300
200
100

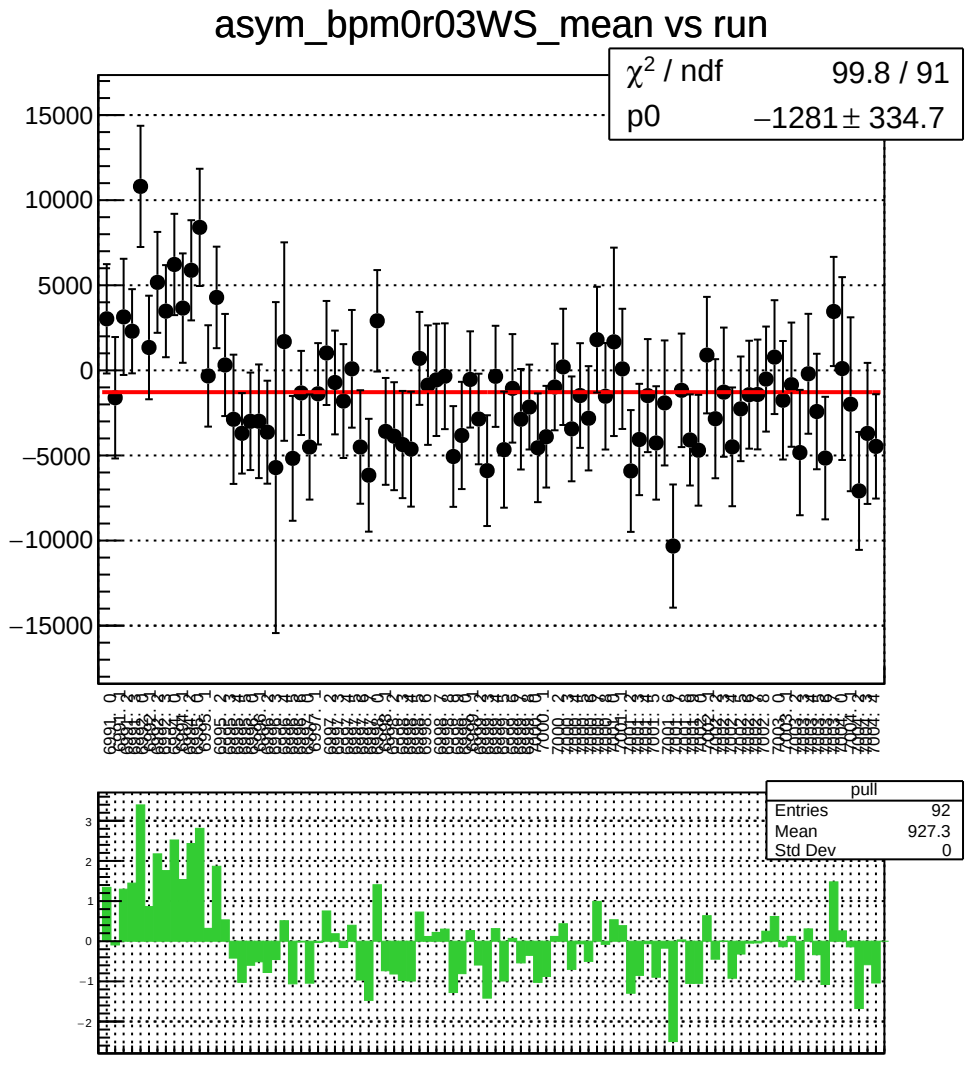

asym_bpm0l09WS_mean vs run
χ² / ndf 132.3 / 91
p0 −1397 ± 226.9
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 639.3
Std Dev 0
pull1D
Entries 92
Mean −0.02507
Std Dev 1.199

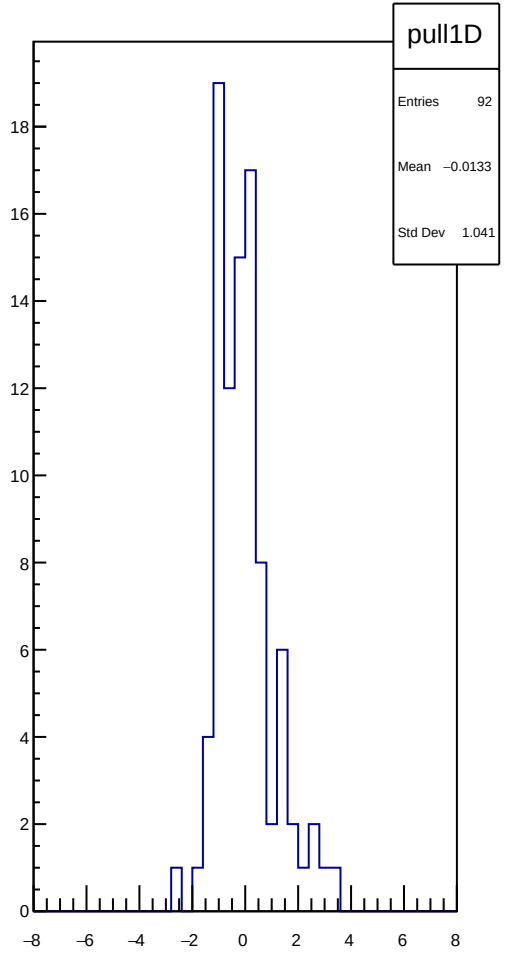

asym_bpm0l09WS_rms vs run
χ² / ndf 4.894e+04 / 91
p0 210.2 ± 0.1604
900
800
700
600
500
400
300
200

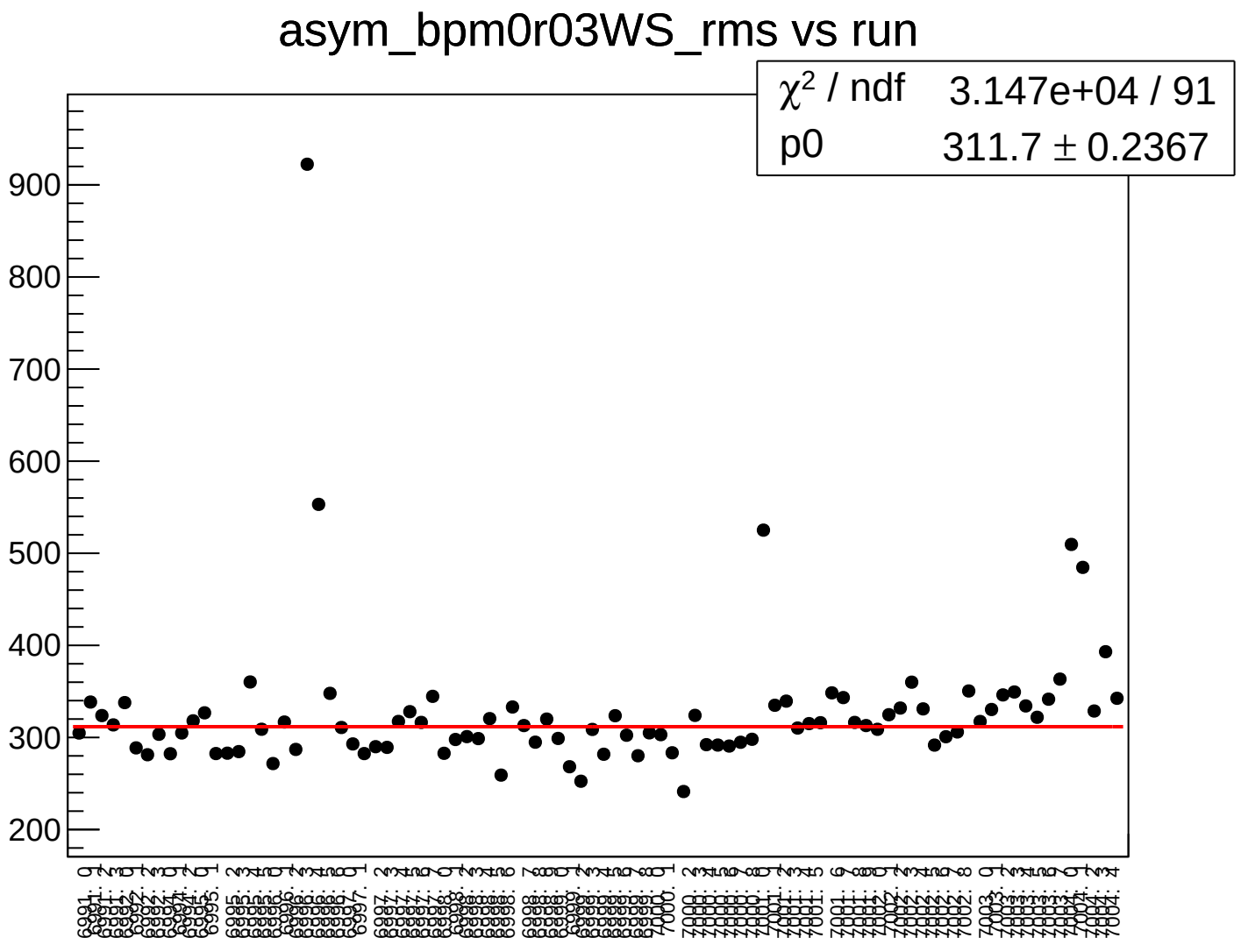

asym_bpm0l10WS_mean vs run
χ^2 / ndf 154.1 / 91
p0 −1249 ± 225.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 531.1
Std Dev 0
4
3
2
1
0
−1
−2

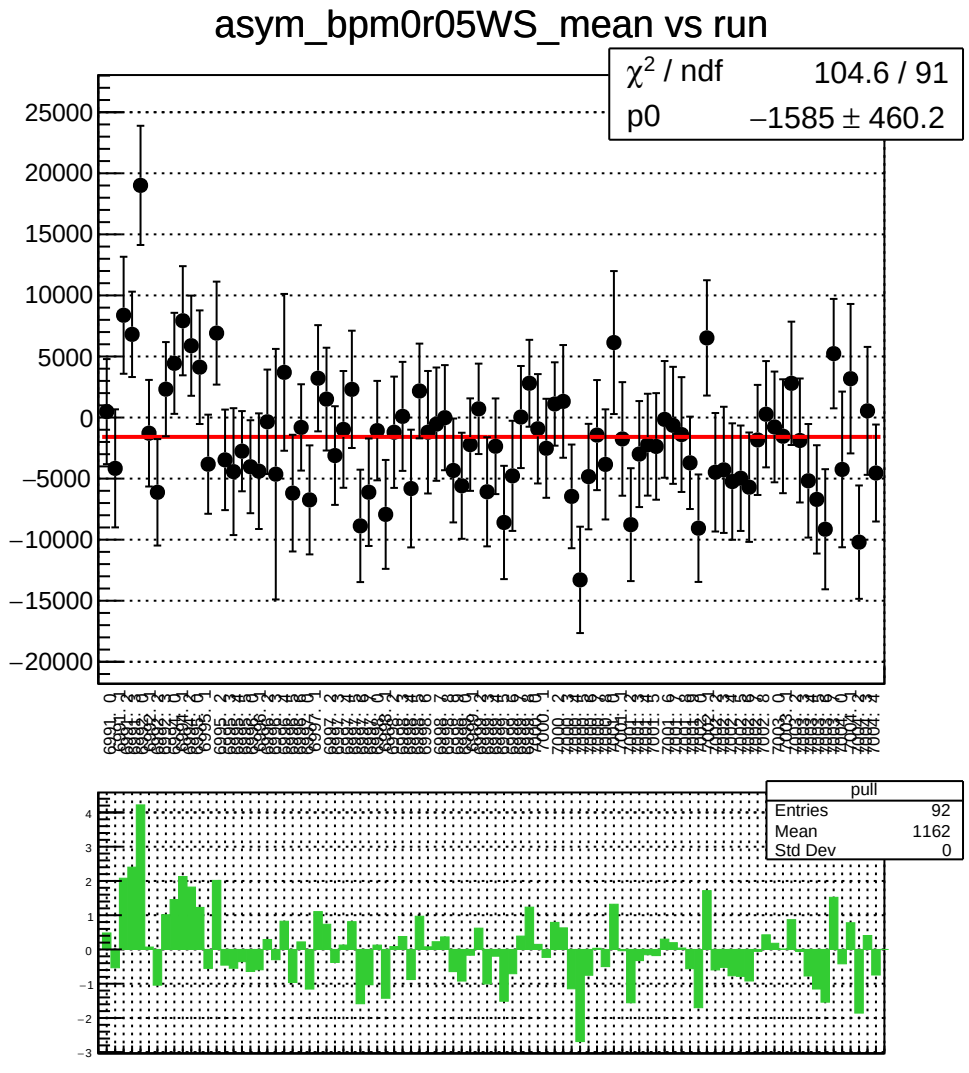

pull1D
Entries 92
Mean −0.03652
Std Dev 1.294
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

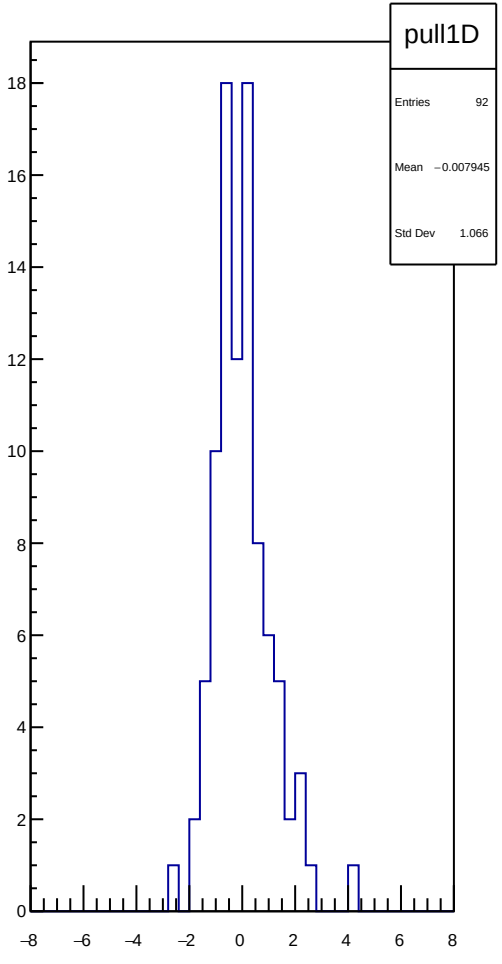

asym_bpm0l10WS_rms vs run
χ² / ndf 4.594e+04 / 91
p0 208.7 ± 0.1592
900
800
700
600
500
400
300
200

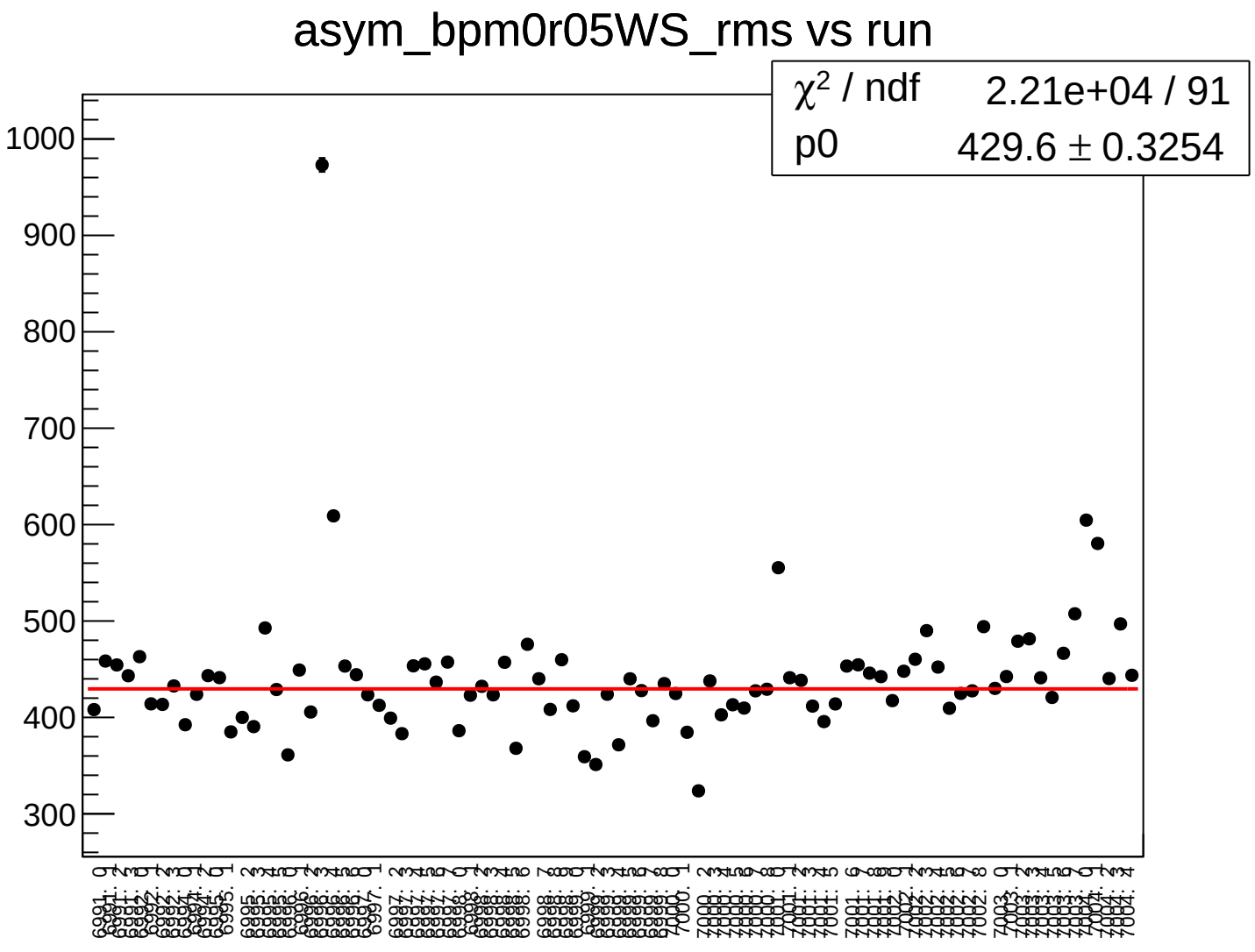

asym_bpm0r03WS_mean vs run
χ² / ndf 99.8 / 91
p0 −1281 ± 334.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 927.3
Std Dev 0
3
2
1
0
−1
−2

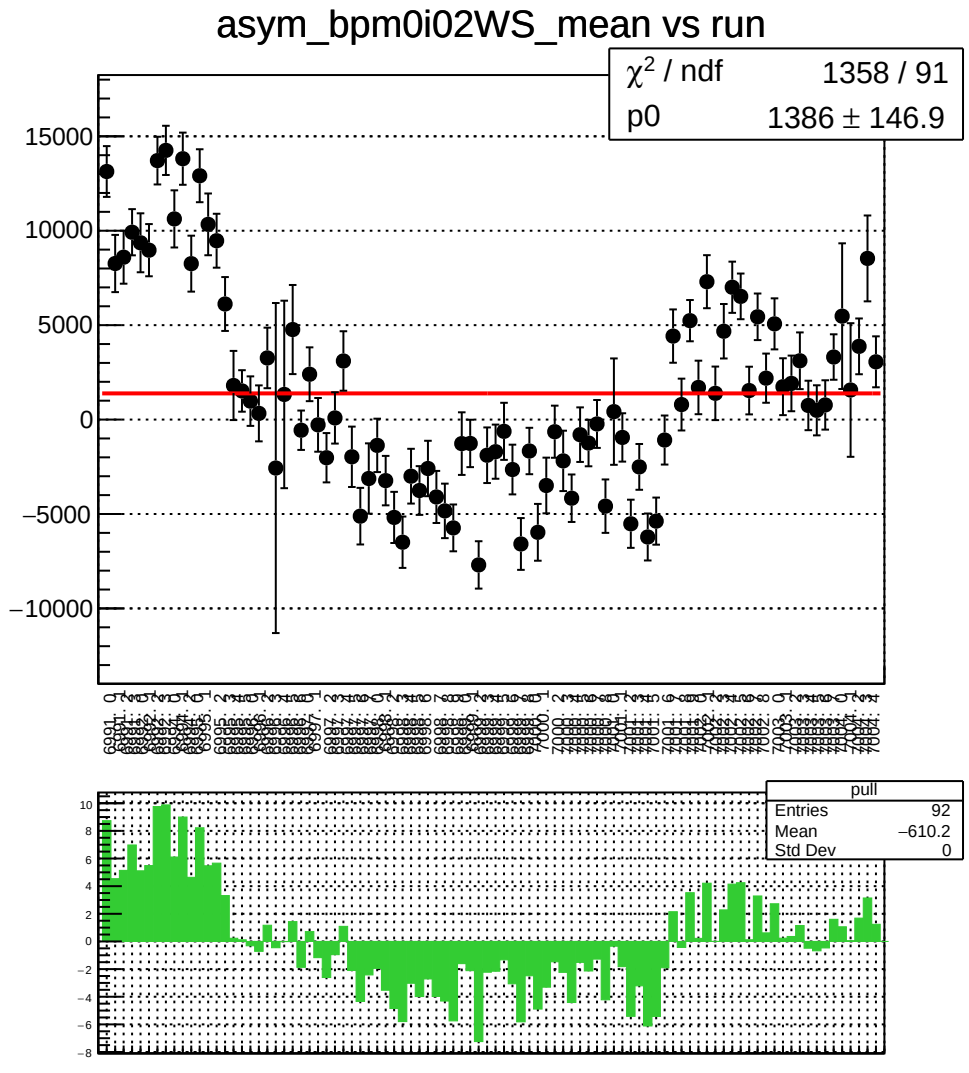

pull1D
Entries 92
Mean −0.0133
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

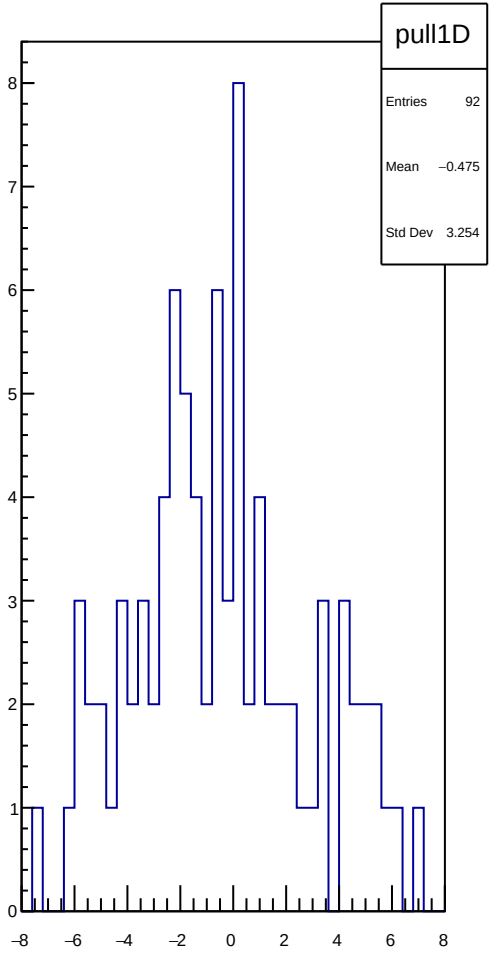

asym_bpm0r03WS_rms vs run
χ² / ndf 3.147e+04 / 91
p0 311.7 ± 0.2367
900
800
700
600
500
400
300
200

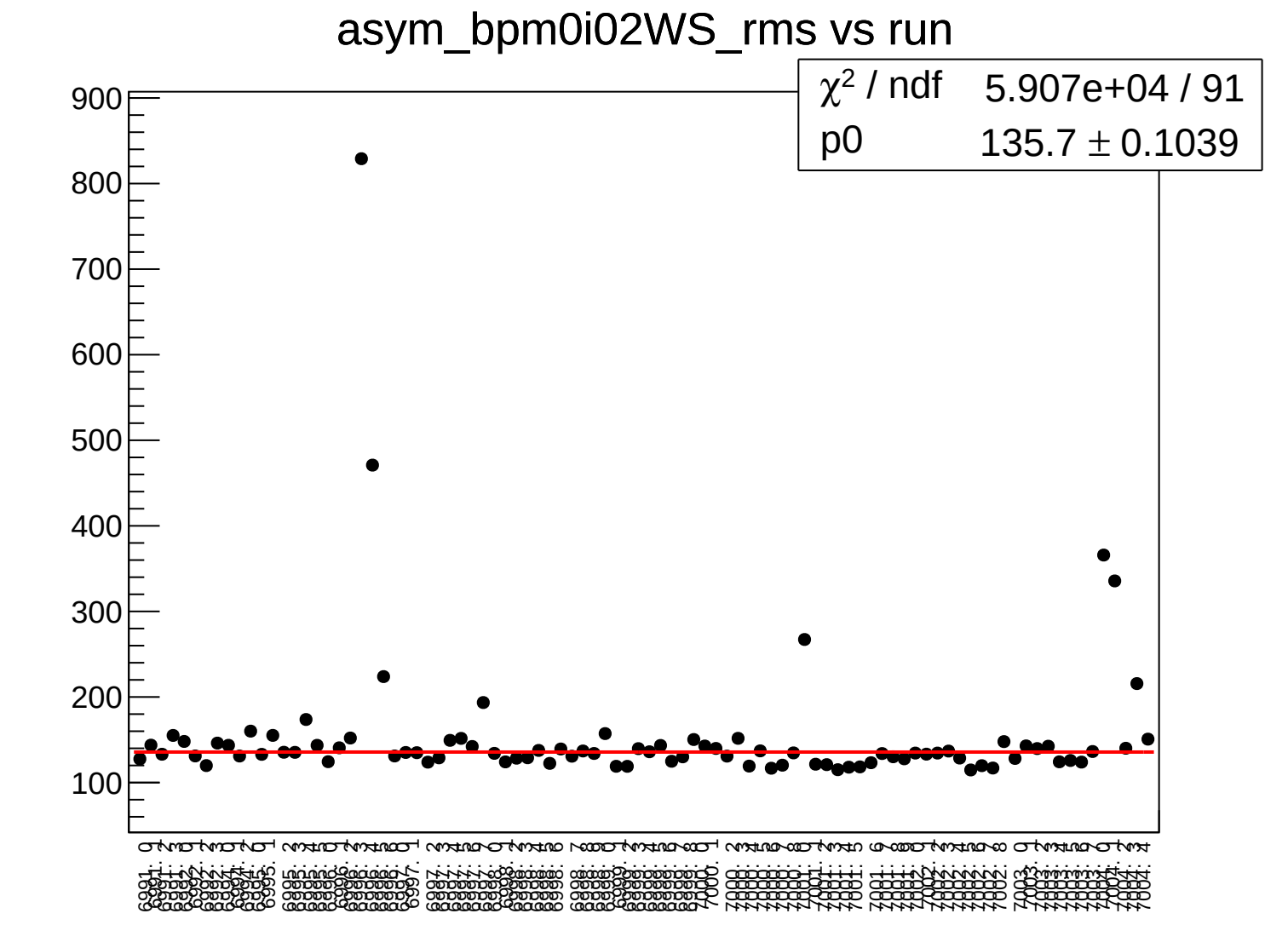

asym_bpm0r05WS_mean vs run
χ^2 / ndf 104.6 / 91
p0 −1585 ± 460.2
pull
Entries 92
Mean 1162
Std Dev 0

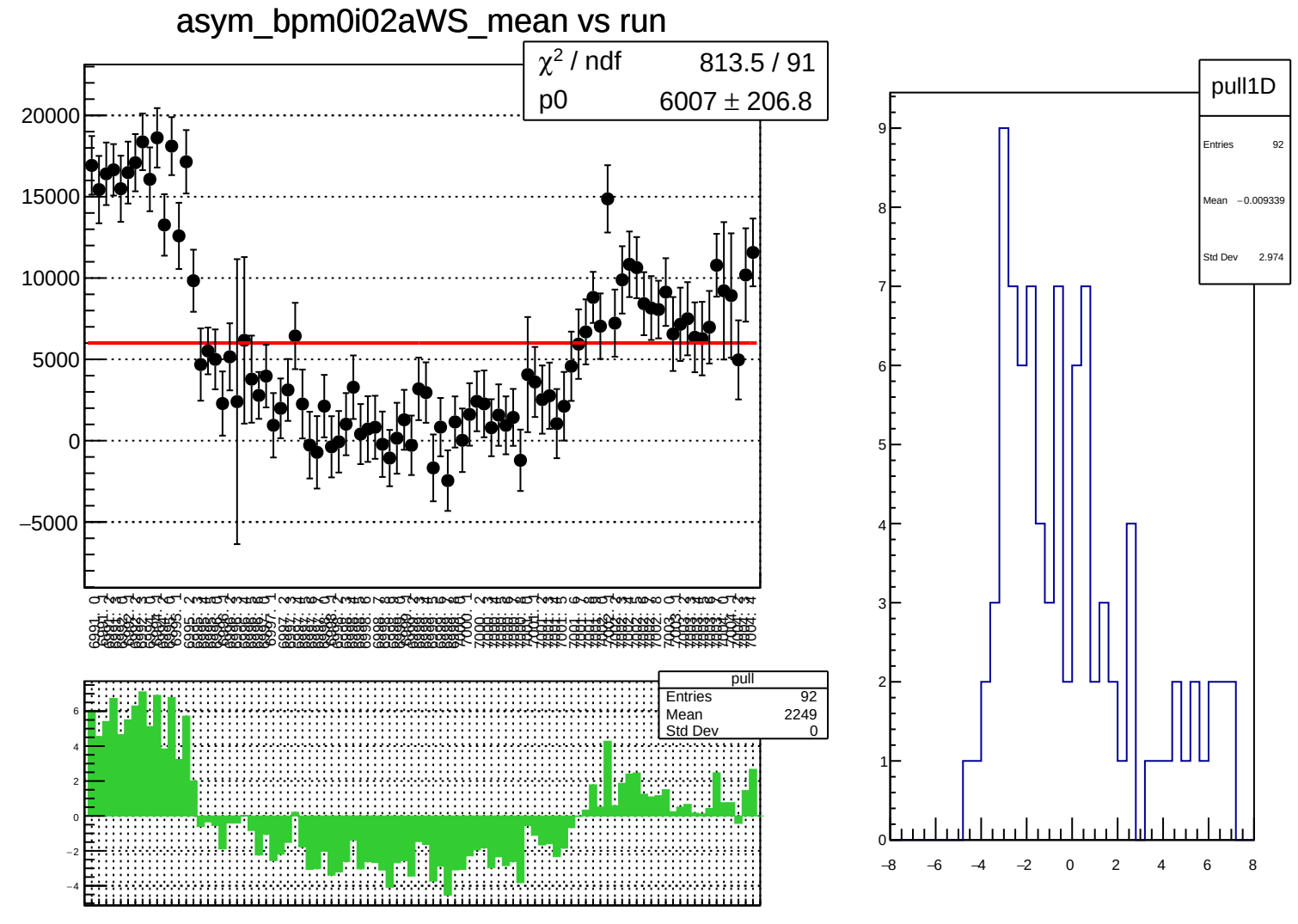

pull1D
Entries 92
Mean −0.007945
Std Dev 1.066

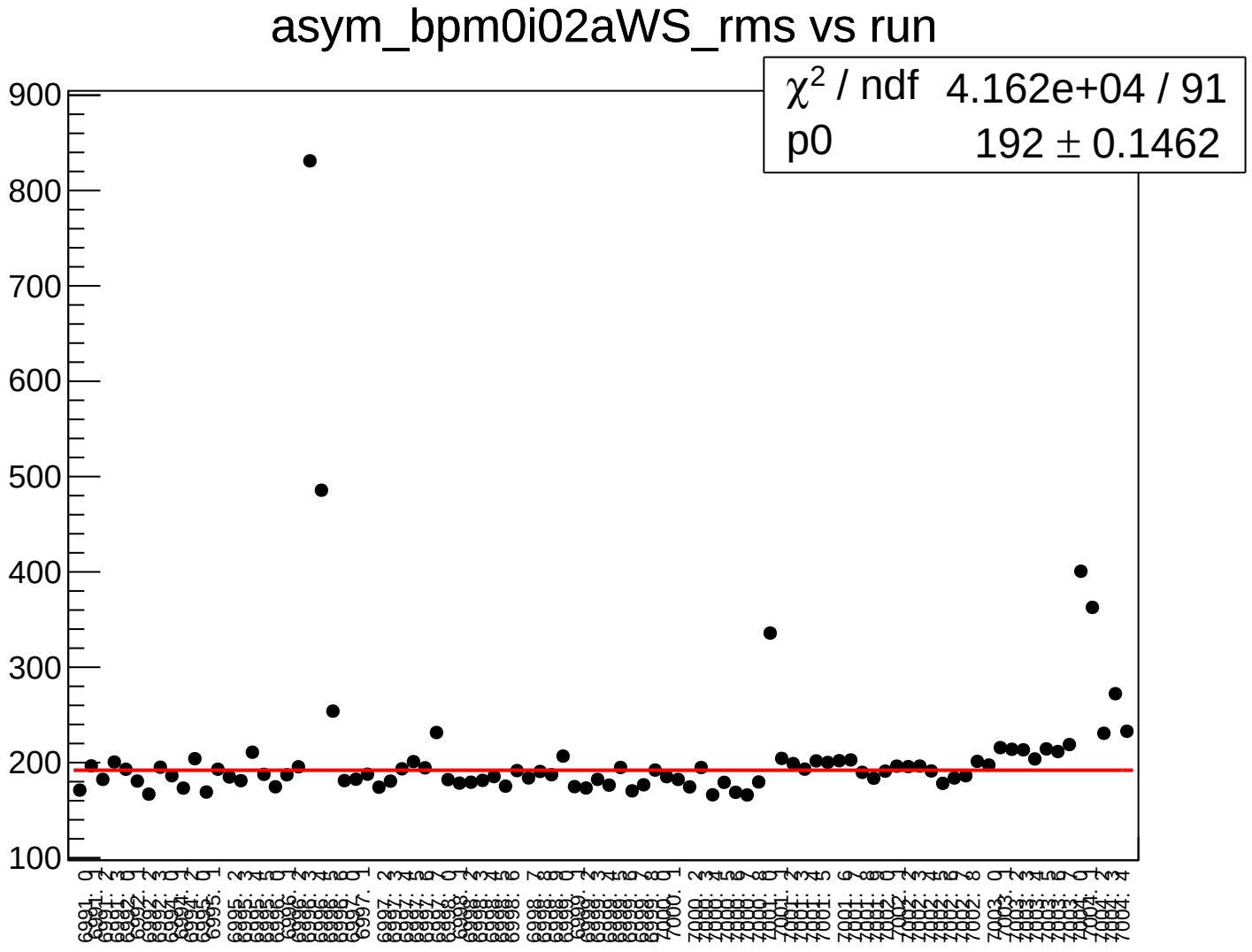

asym_bpm0r05WS_rms vs run
χ² / ndf 2.21e+04 / 91
p0 429.6 ± 0.3254
1000
900
800
700
600
500
400
300

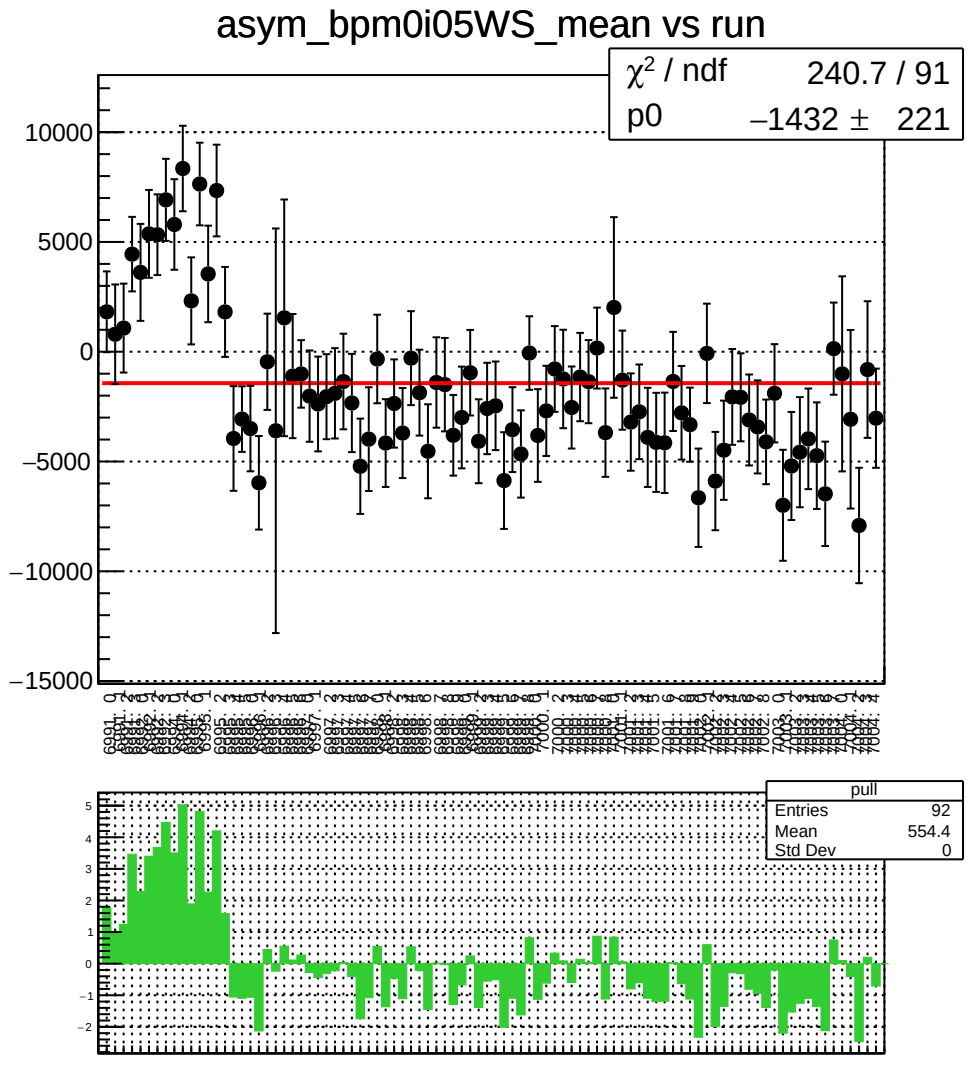

asym_bpm0i02WS_mean vs run
χ² / ndf 1358 / 91
p0 1386 ± 146.9
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −610.2
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

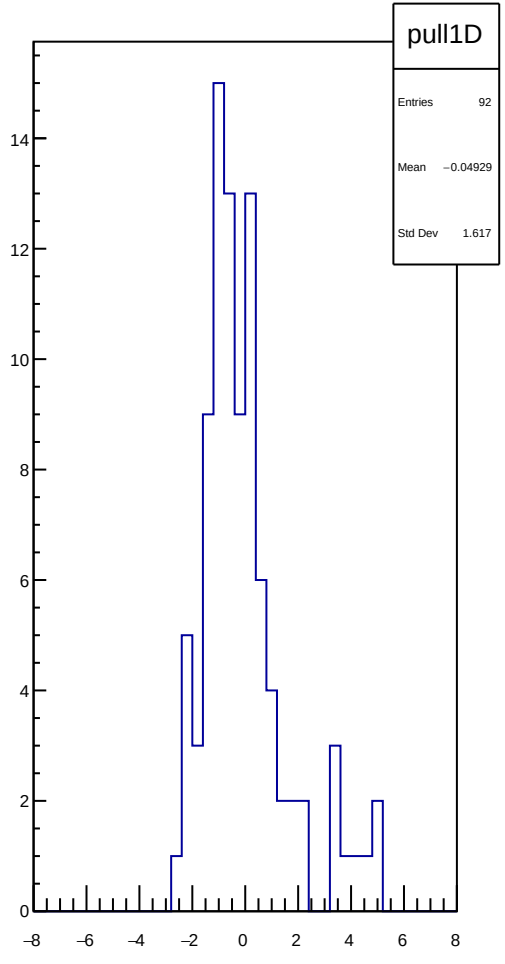

pull1D
Entries 92
Mean −0.475
Std Dev 3.254
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

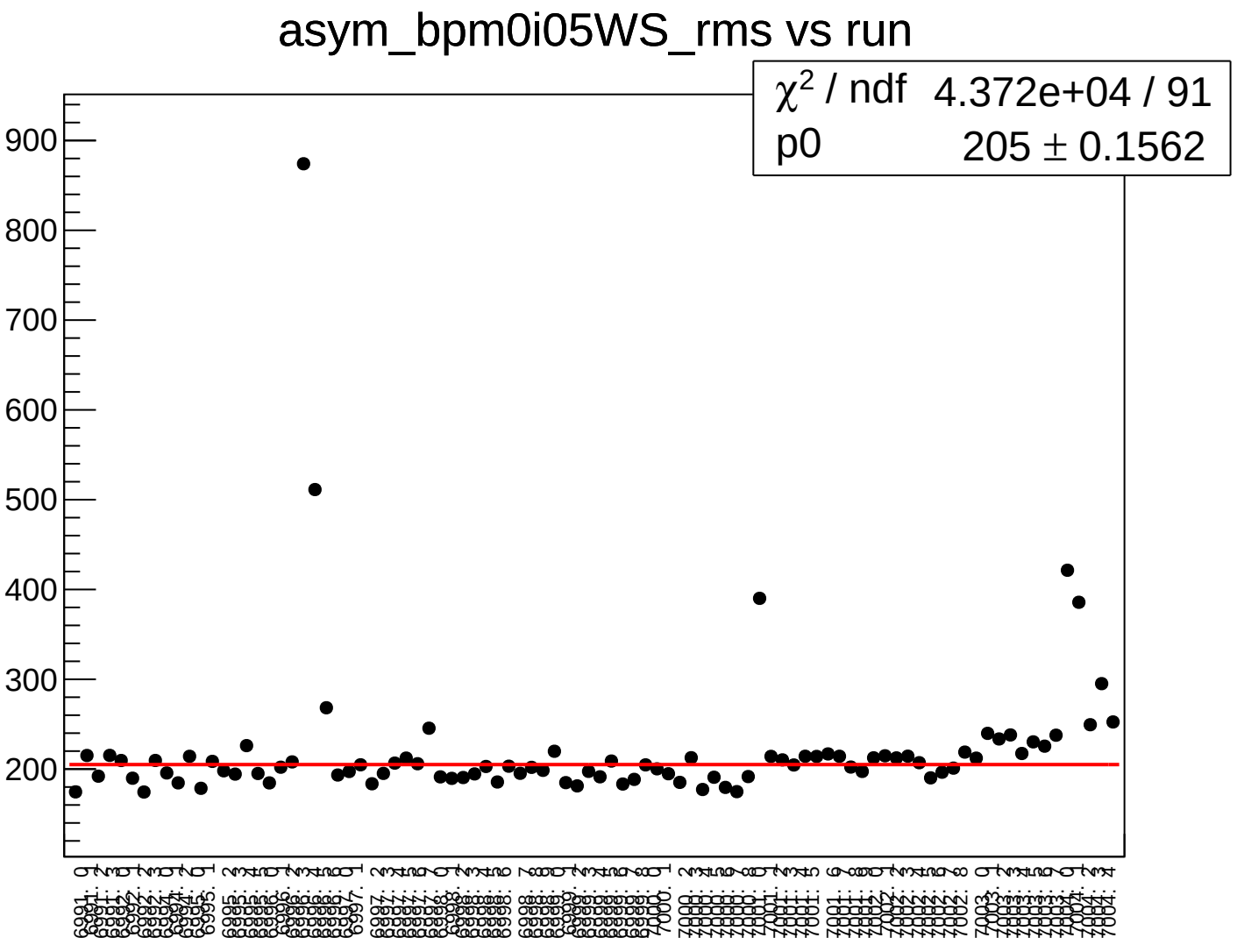

asym_bpm0i02WS_rms vs run
χ^2 / ndf 5.907e+04 / 91
p0 135.7 ± 0.1039
900
800
700
600
500
400
300
200
100

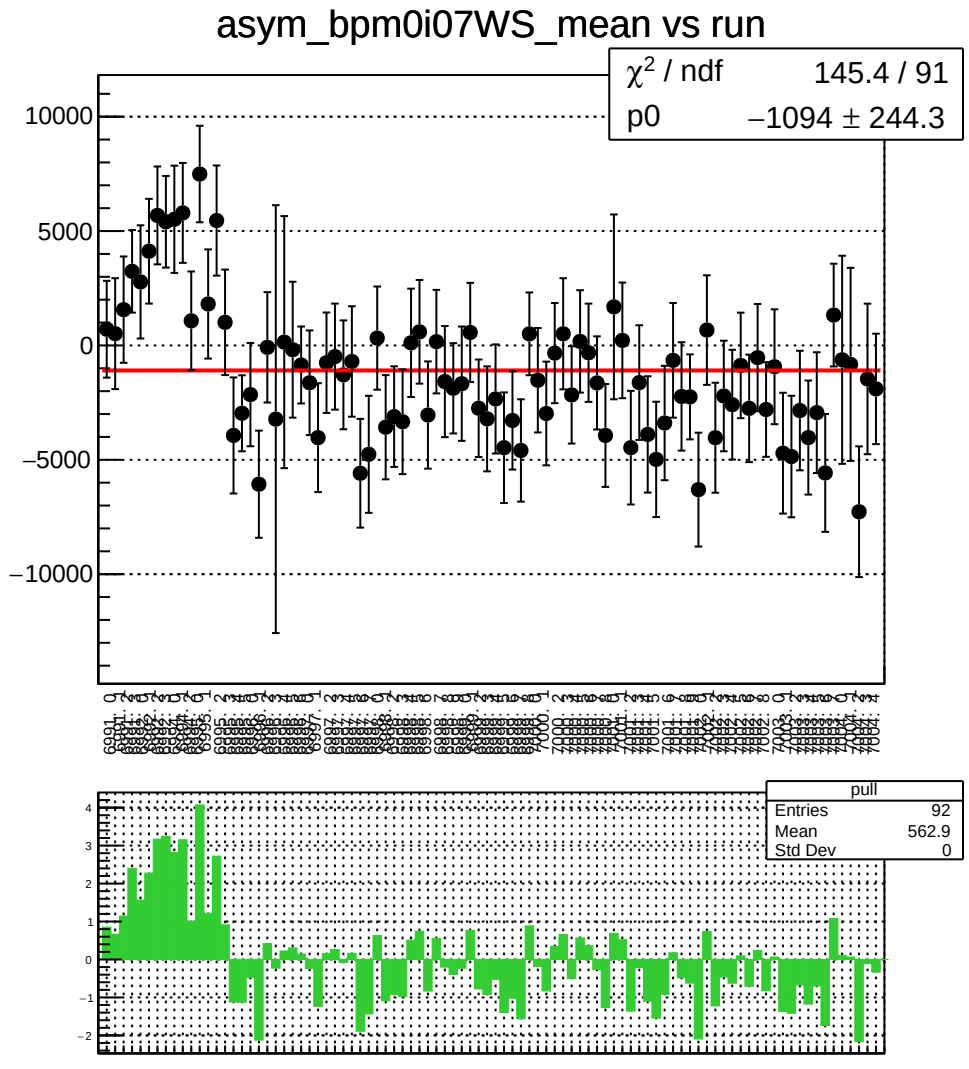

asym_bpm0i02aWS_mean vs run
χ² / ndf 813.5 / 91
p0 6007 ± 206.8
20000
15000
10000
5000
0
−5000
pull
Entries 92
Mean 2249
Std Dev 0
pull1D
Entries 92
Mean −0.009339
Std Dev 2.974

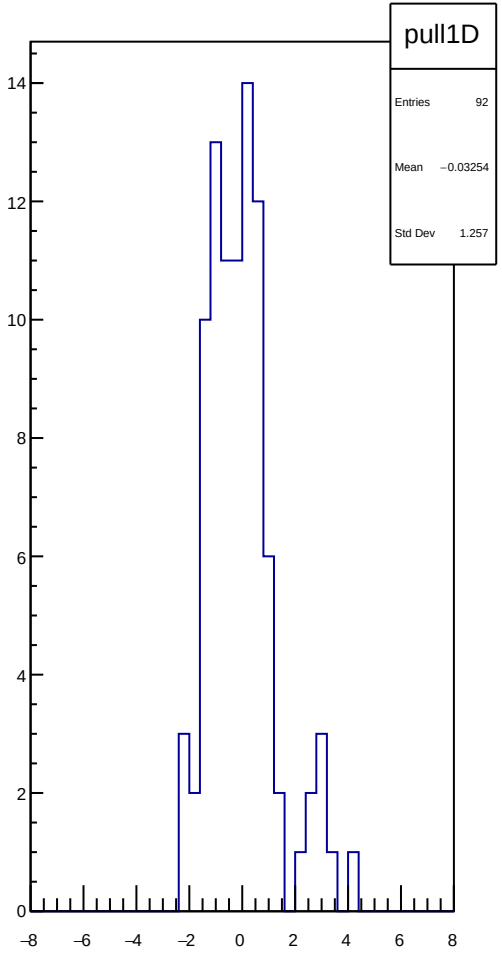

asym_bpm0i02aWS_rms vs run
χ² / ndf 4.162e+04 / 91
p0 192 ± 0.1462
900
800
700
600
500
400
300
200
100

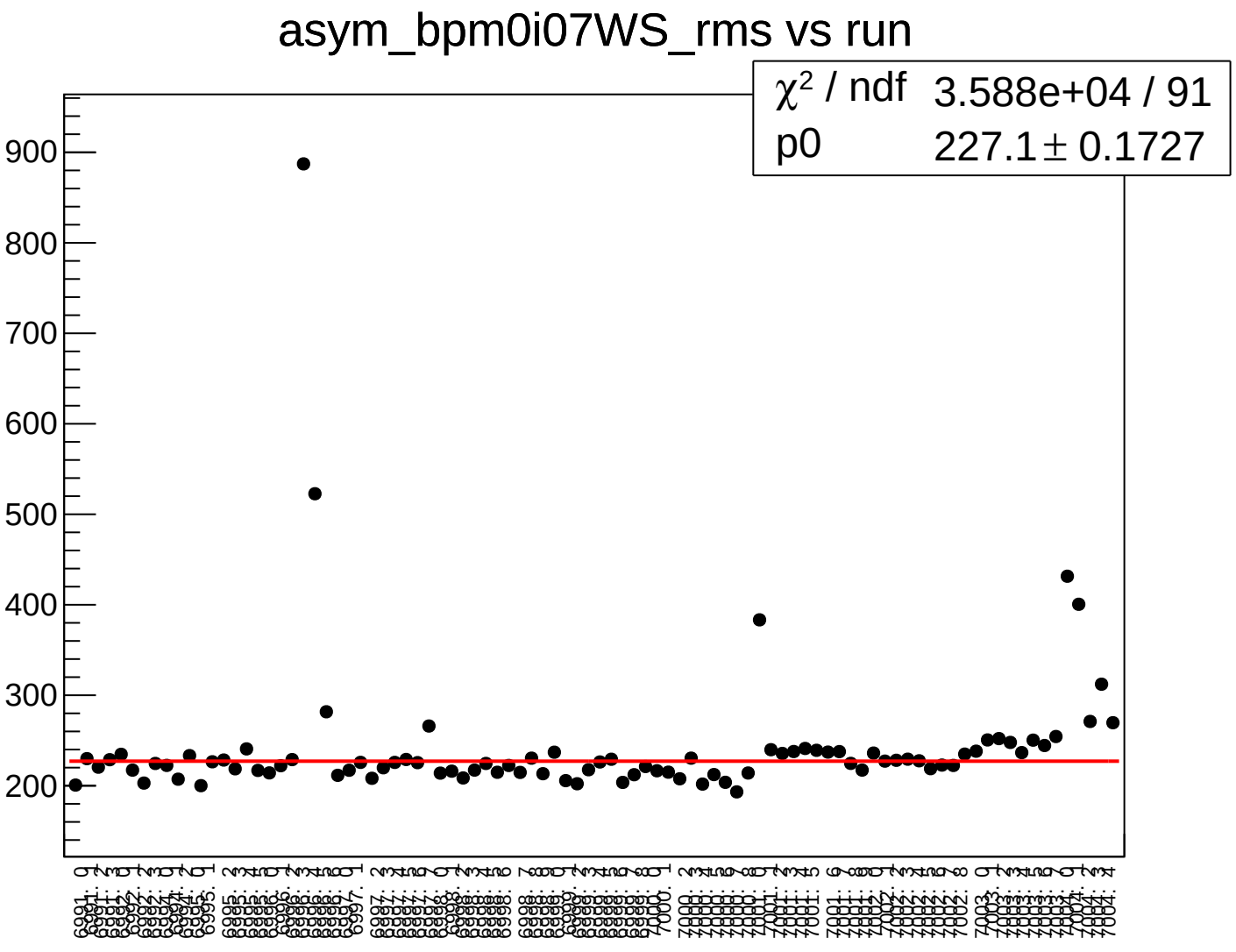

asym_bpm0i05WS_mean vs run
χ² / ndf 240.7 / 91
p0 −1432 ± 221
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 554.4
Std Dev 0
5
4
3
2
1
0
−1
−2

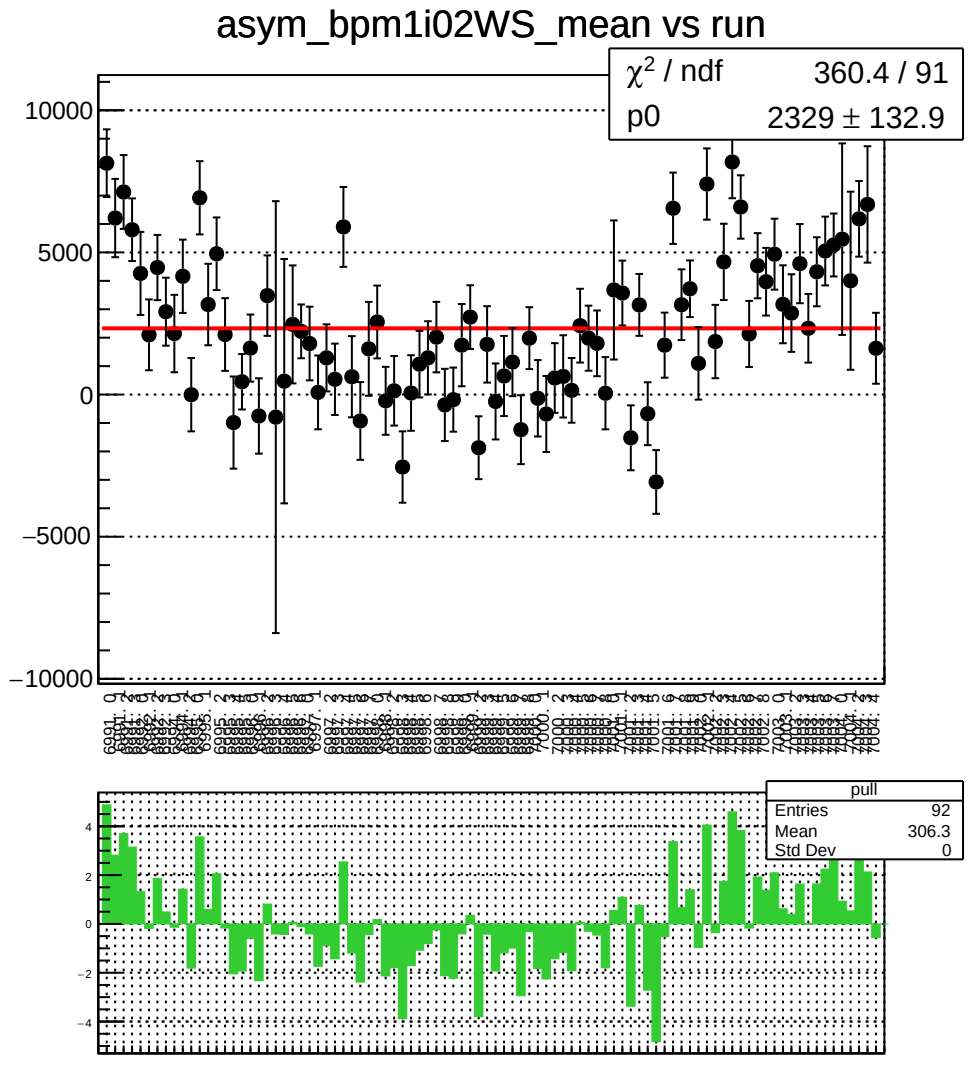

pull1D
Entries 92
Mean −0.04929
Std Dev 1.617
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

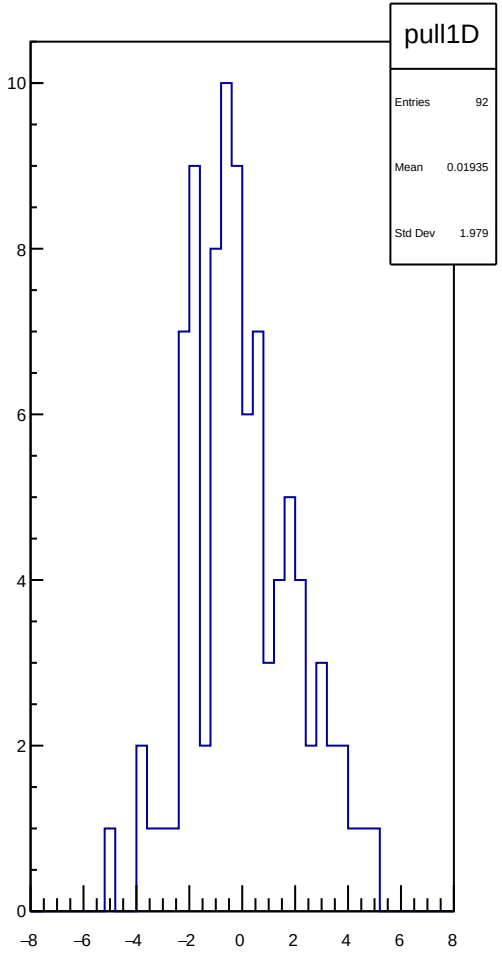

asym_bpm0i05WS_rms vs run
χ^2 / ndf 4.372e+04 / 91
p0 205 ± 0.1562
900
800
700
600
500
400
300
200

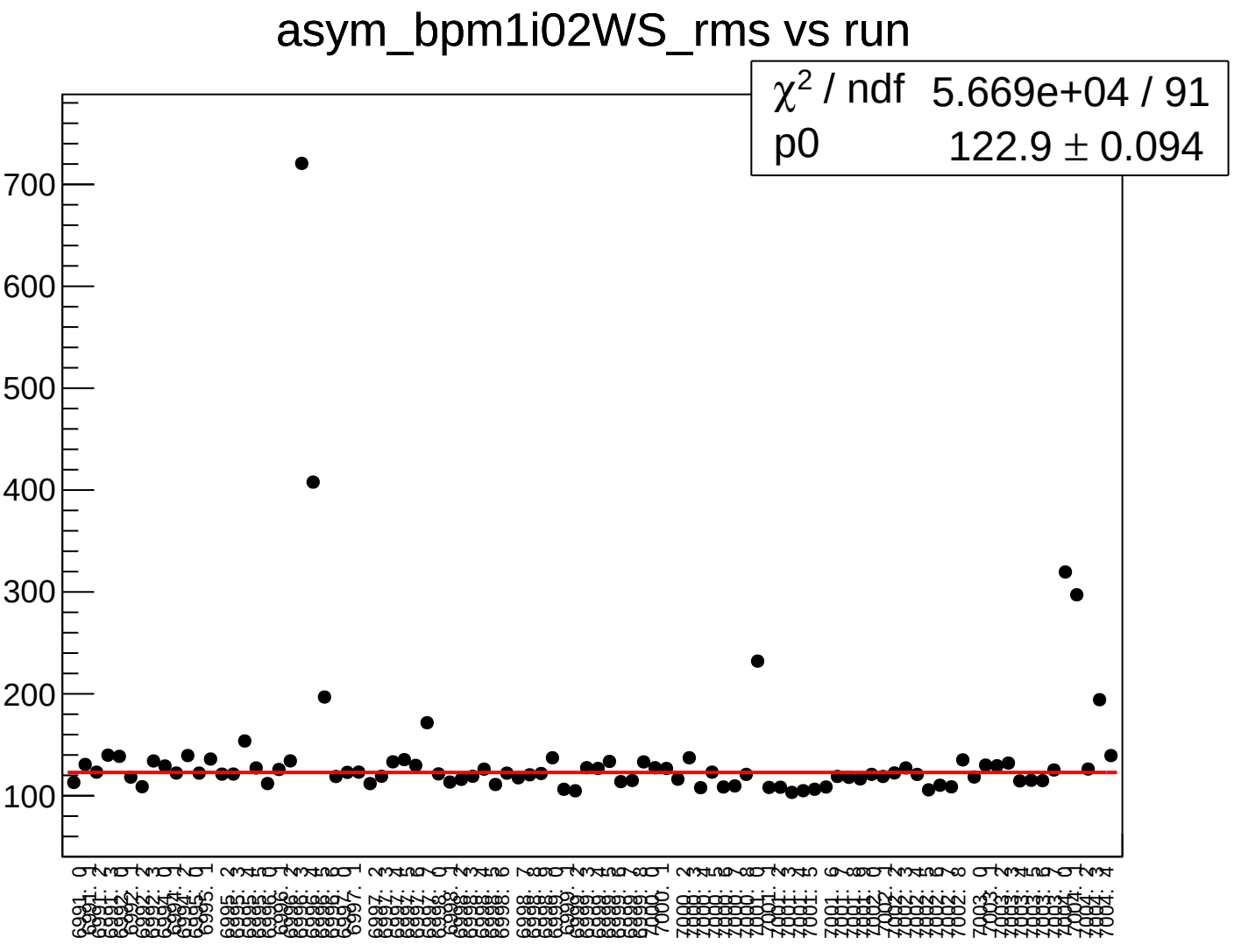

asym_bpm0i07WS_mean vs run
χ² / ndf 145.4 / 91
p0 −1094 ± 244.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 562.9
Std Dev 0
4
3
2
1
0
−1
−2

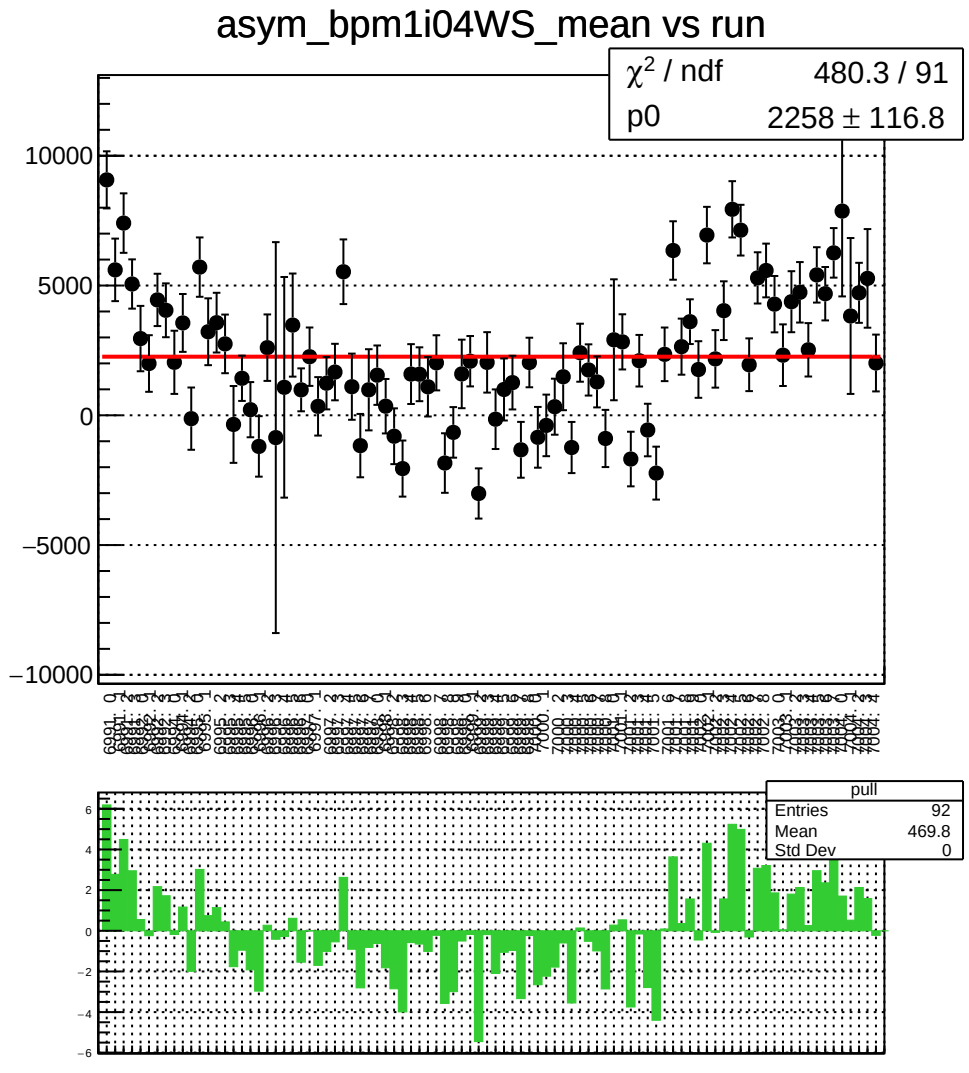

pull1D
Entries 92
Mean −0.03254
Std Dev 1.257
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

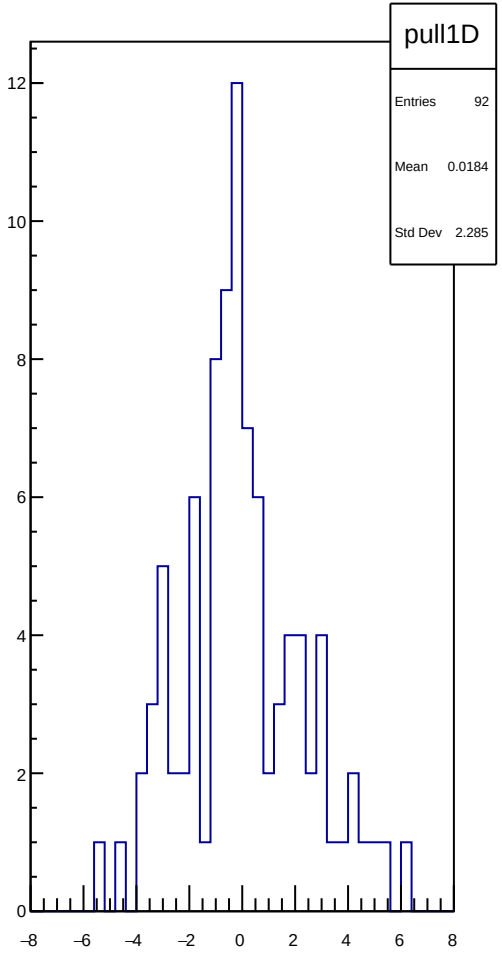

asym_bpm0i07WS_rms vs run
χ² / ndf 3.588e+04 / 91
p0 227.1 ± 0.1727
900
800
700
600
500
400
300
200

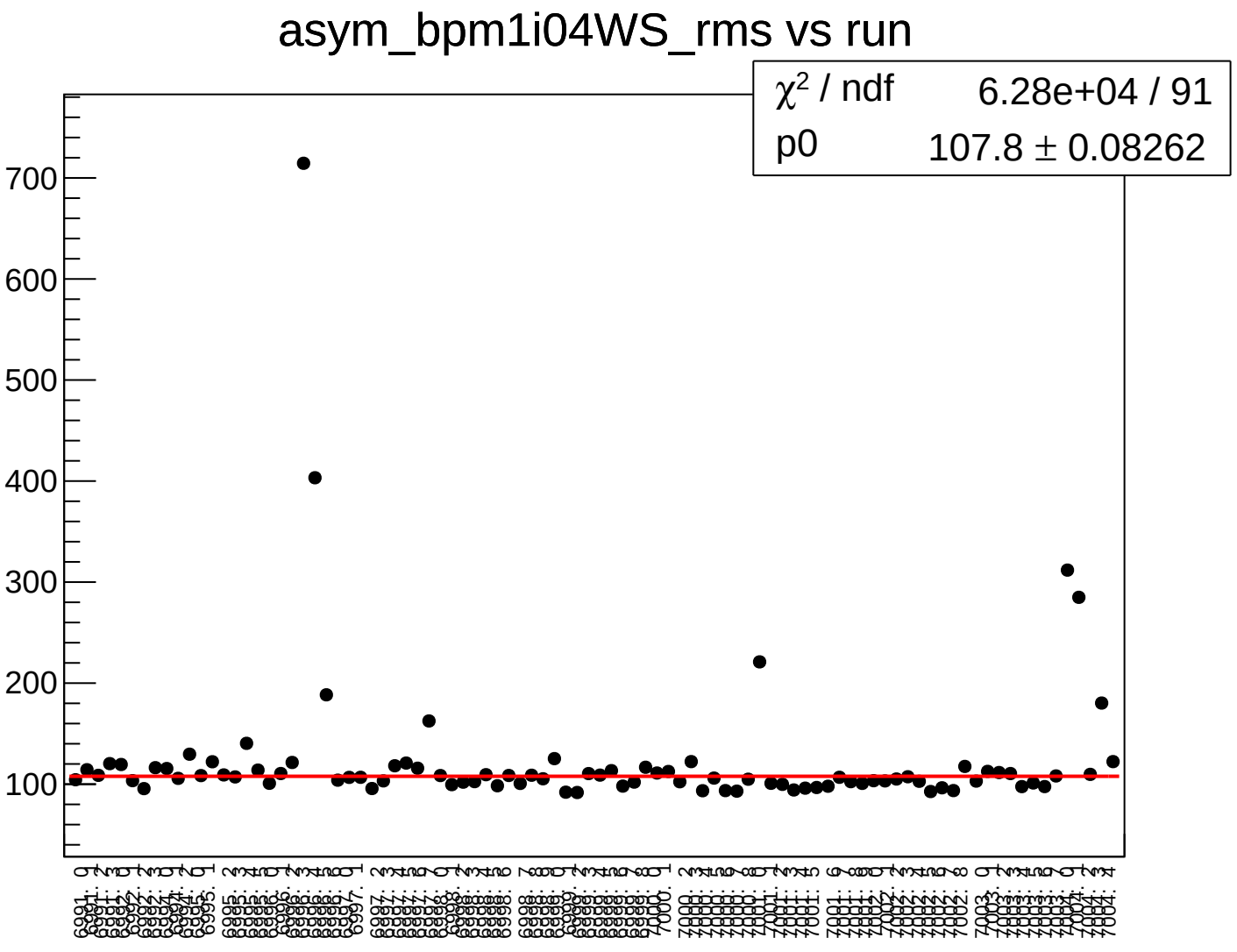

asym_bpm1i02WS_mean vs run
χ² / ndf 360.4 / 91
p0 2329 ± 132.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 306.3
Std Dev 0
4
2
0
−2
−4

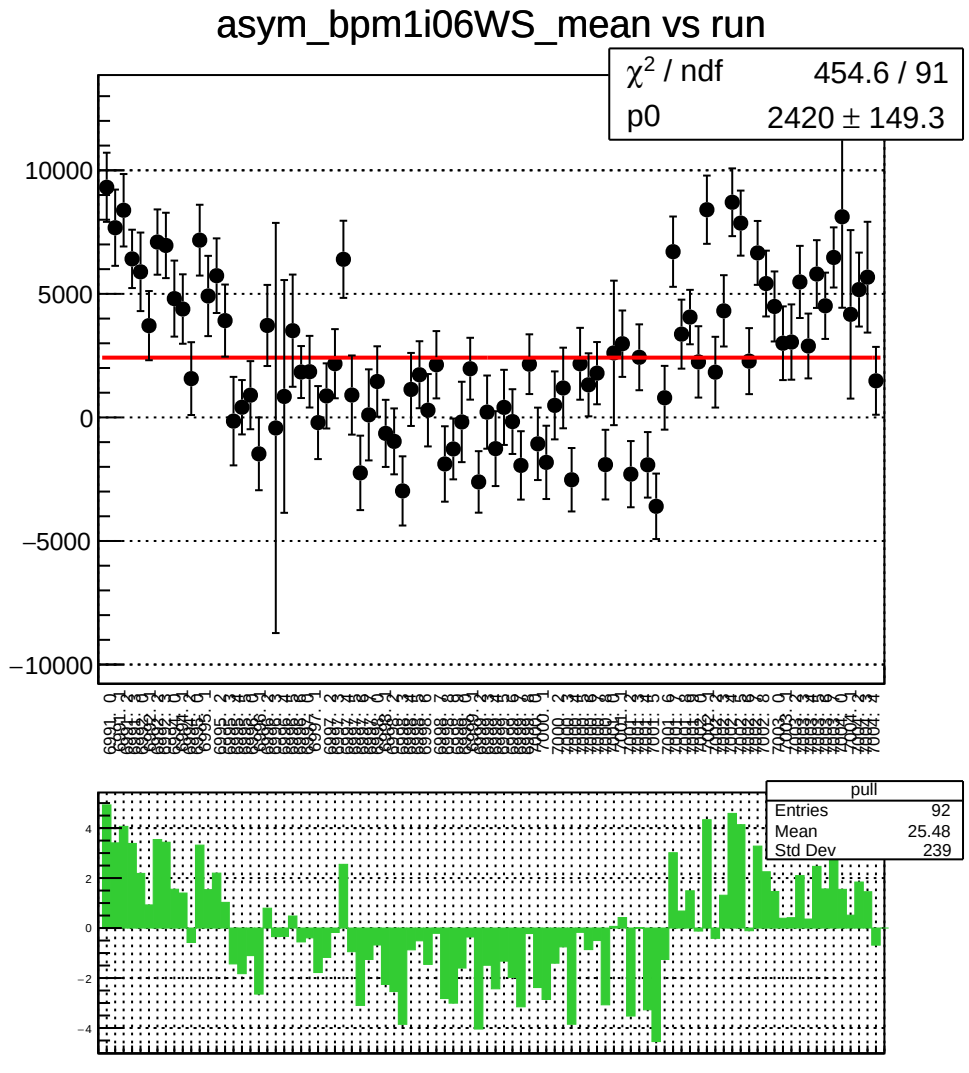

pull1D
Entries 92
Mean 0.01935
Std Dev 1.979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

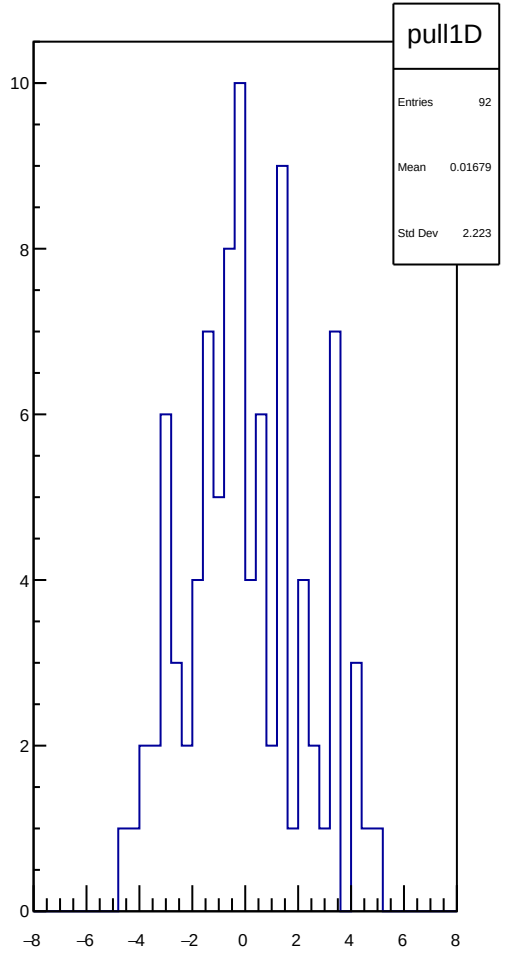

asym_bpm1i02WS_rms vs run
χ² / ndf 5.669e+04 / 91
p0 122.9 ± 0.094
700
600
500
400
300
200
100

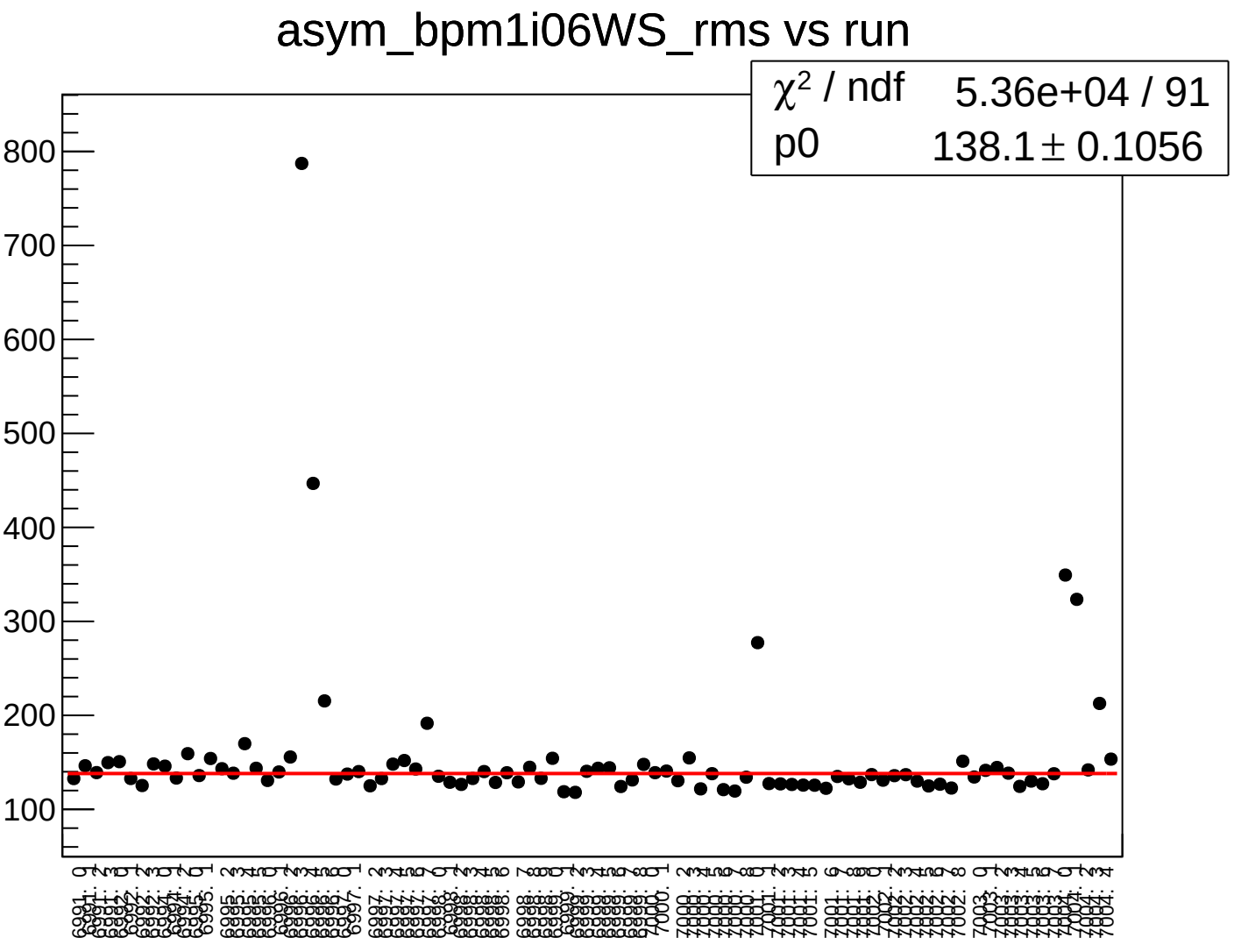

asym_bpm1i04WS_mean vs run
χ² / ndf 480.3 / 91
p0 2258 ± 116.8
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 469.8
Std Dev 0
6
4
2
0
−2
−4
−6

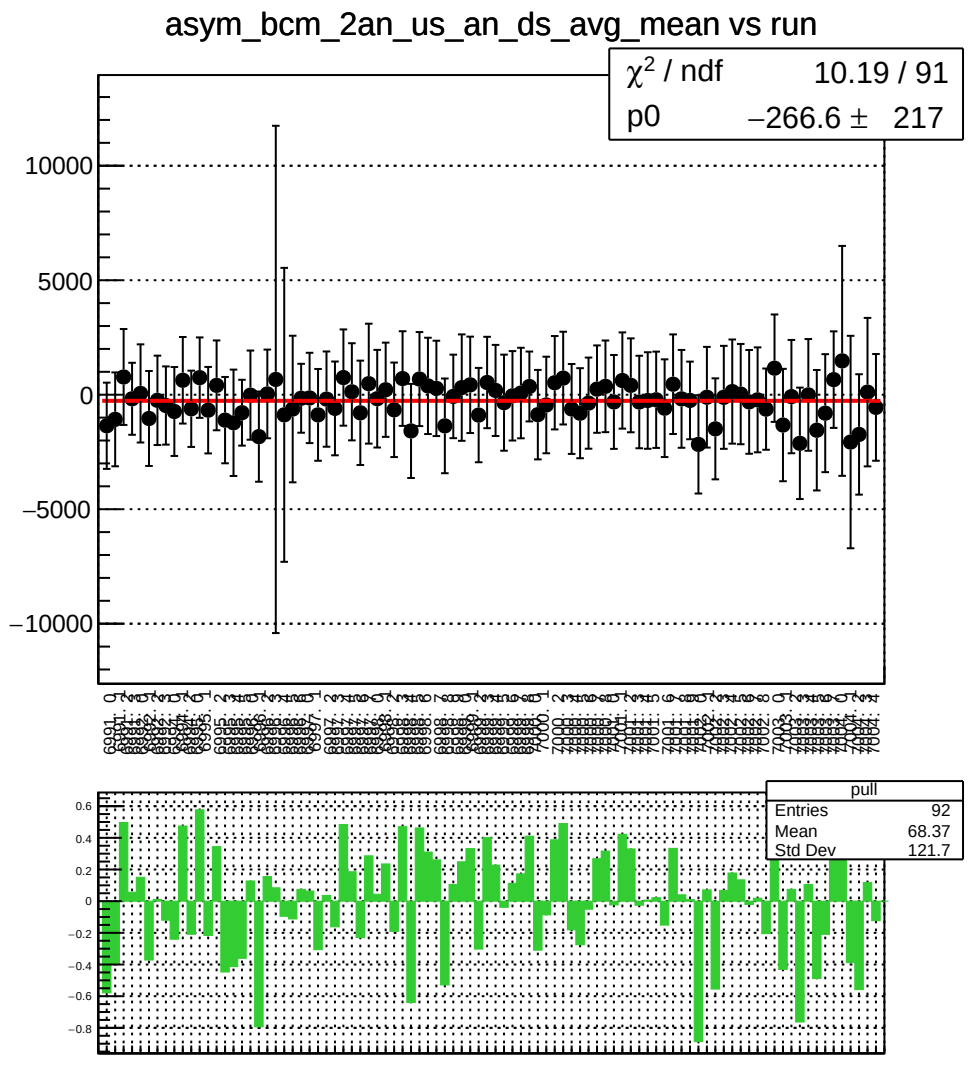

pull1D
Entries 92
Mean 0.0184
Std Dev 2.285
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

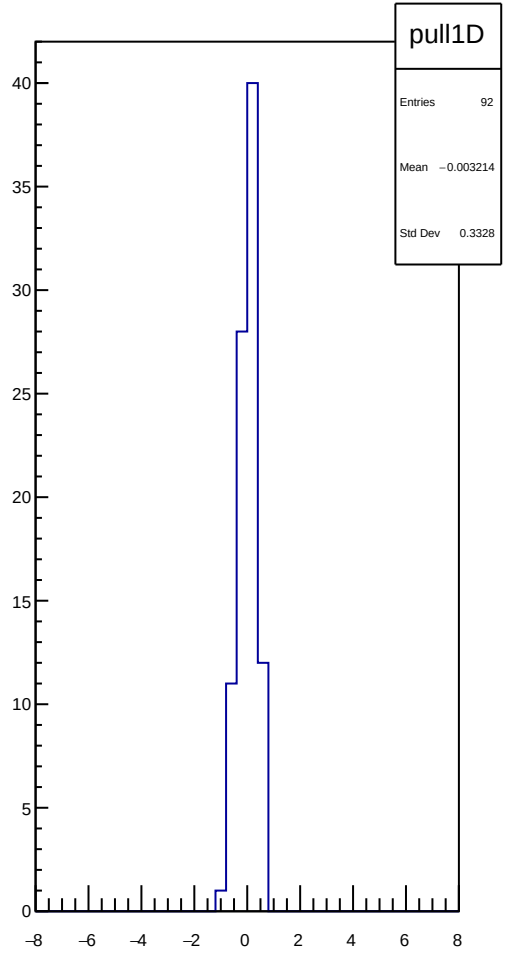

asym_bpm1i04WS_rms vs run
χ² / ndf 6.28e+04 / 91
p0 107.8 ± 0.08262
700
600
500
400
300
200
100

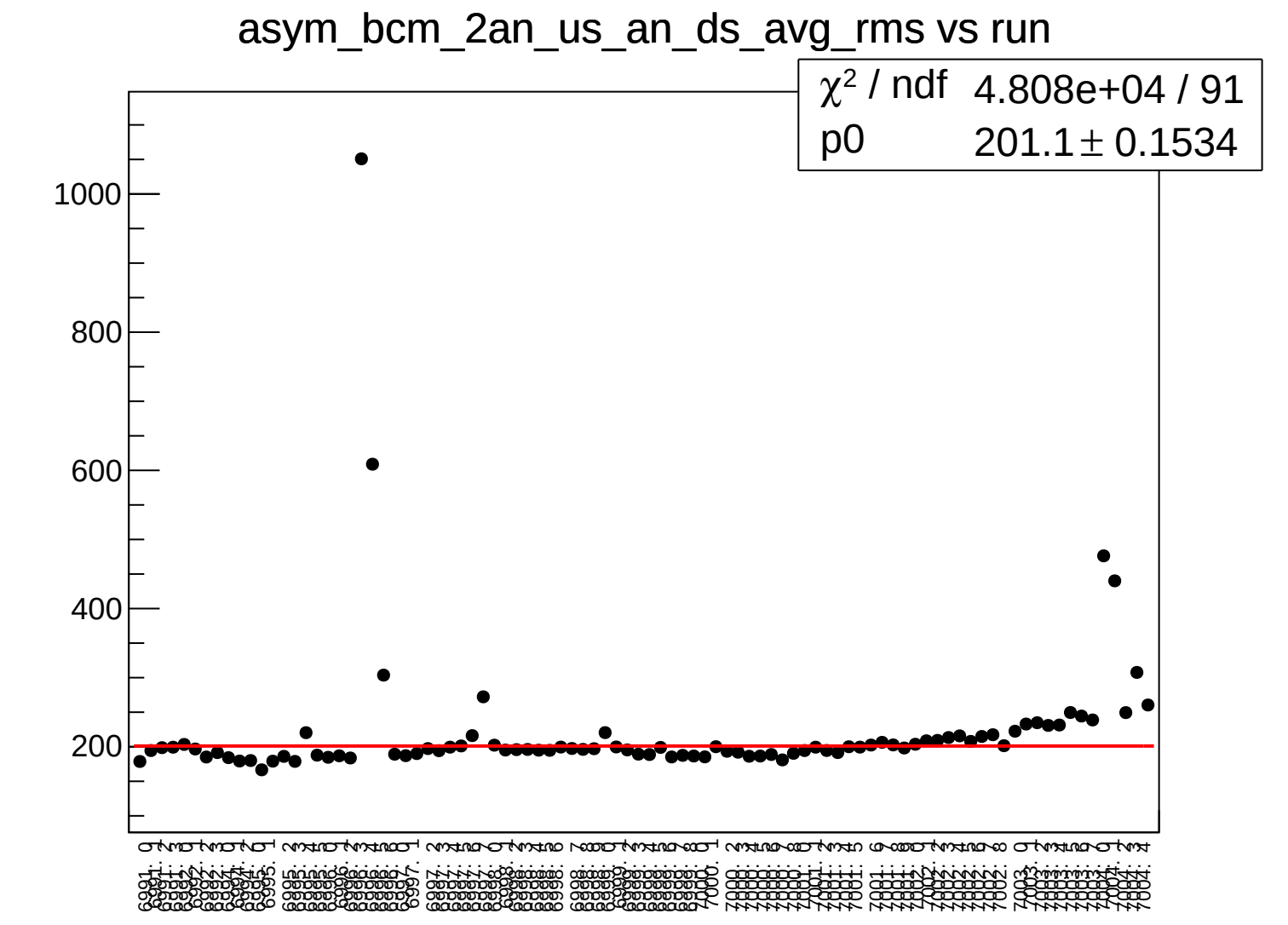

asym_bpm1i06WS_mean vs run
χ² / ndf 454.6 / 91
p0 2420 ± 149.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 25.48
Std Dev 239
4
2
0
−2
−4

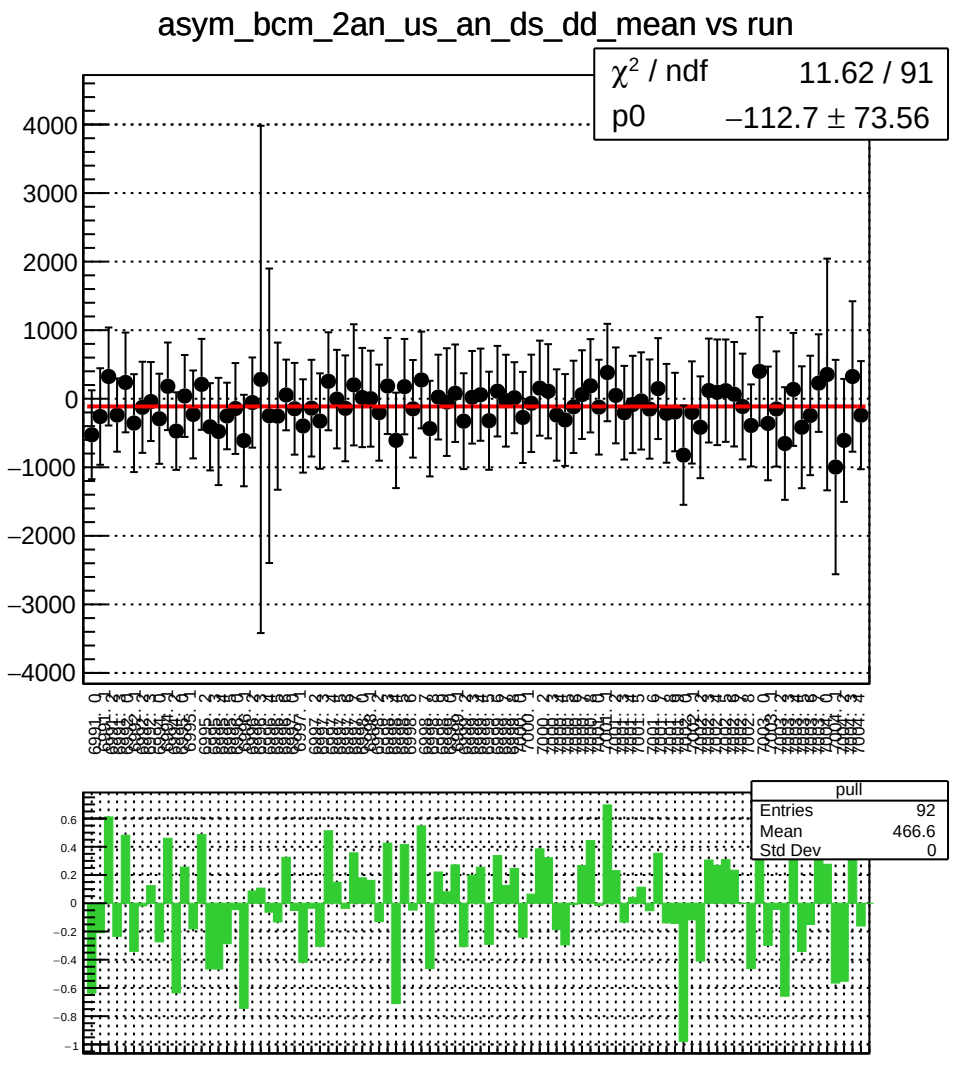

pull1D
Entries 92
Mean 0.01679
Std Dev 2.223
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

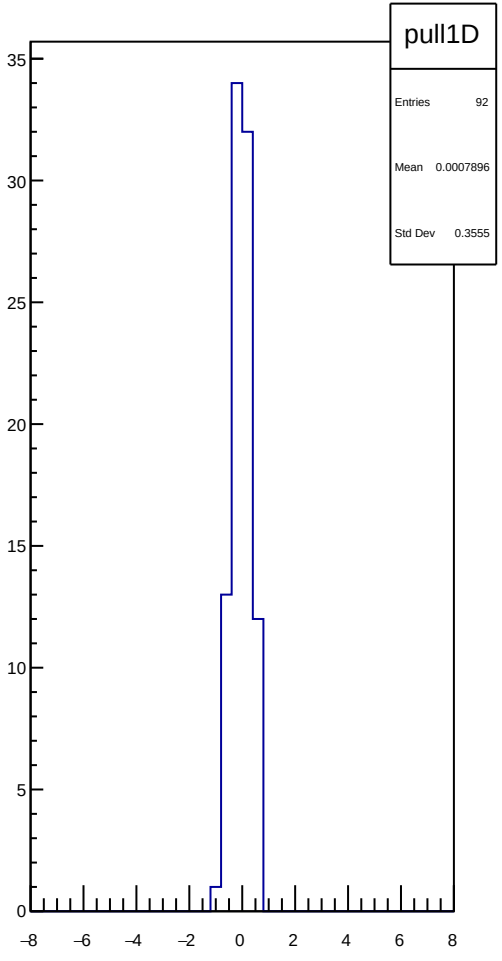

asym_bpm1i06WS_rms vs run
χ² / ndf 5.36e+04 / 91
p0 138.1 ± 0.1056
800
700
600
500
400
300
200
100

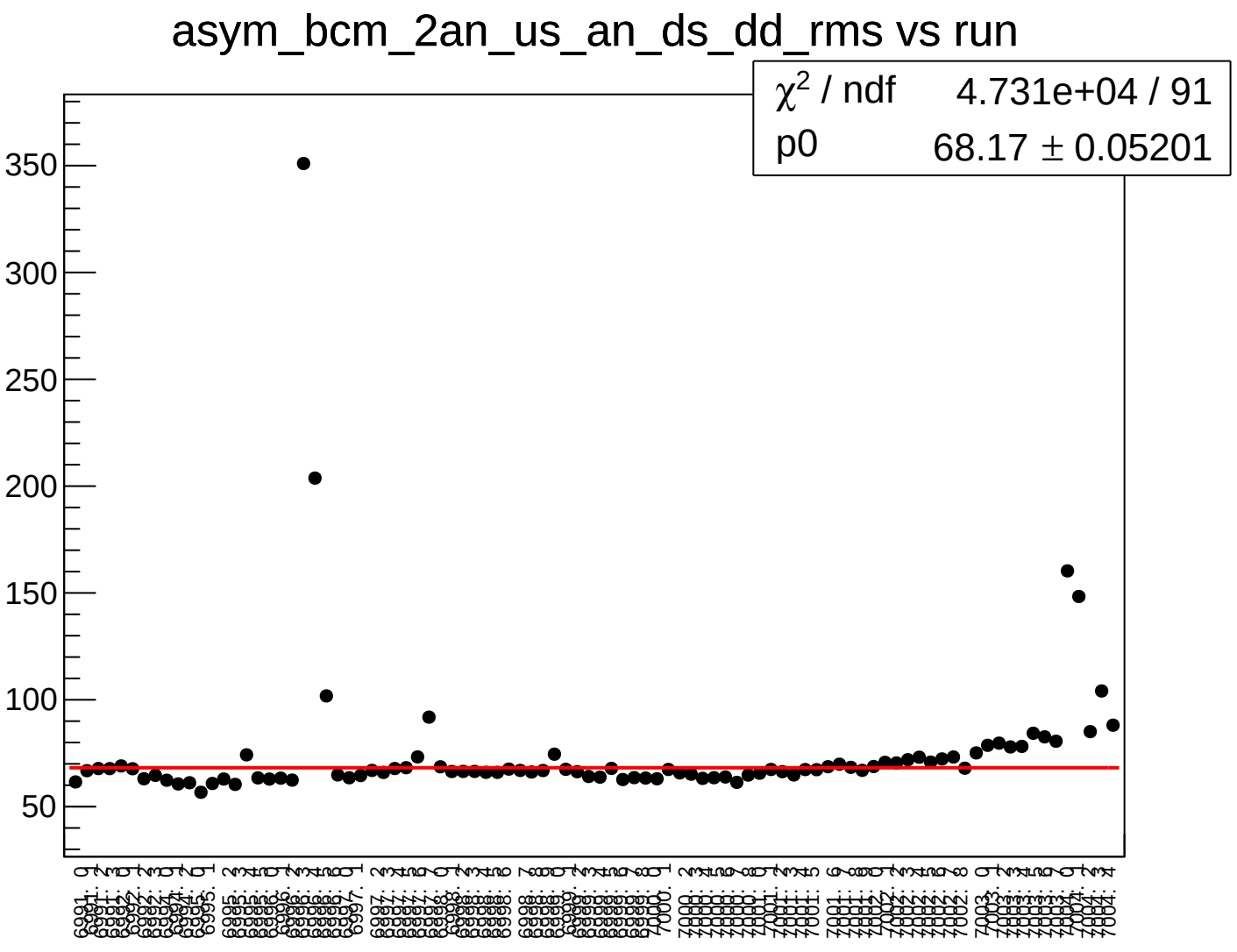

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 10.19 / 91
p0 −266.6 ± 217
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 68.37
Std Dev 121.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

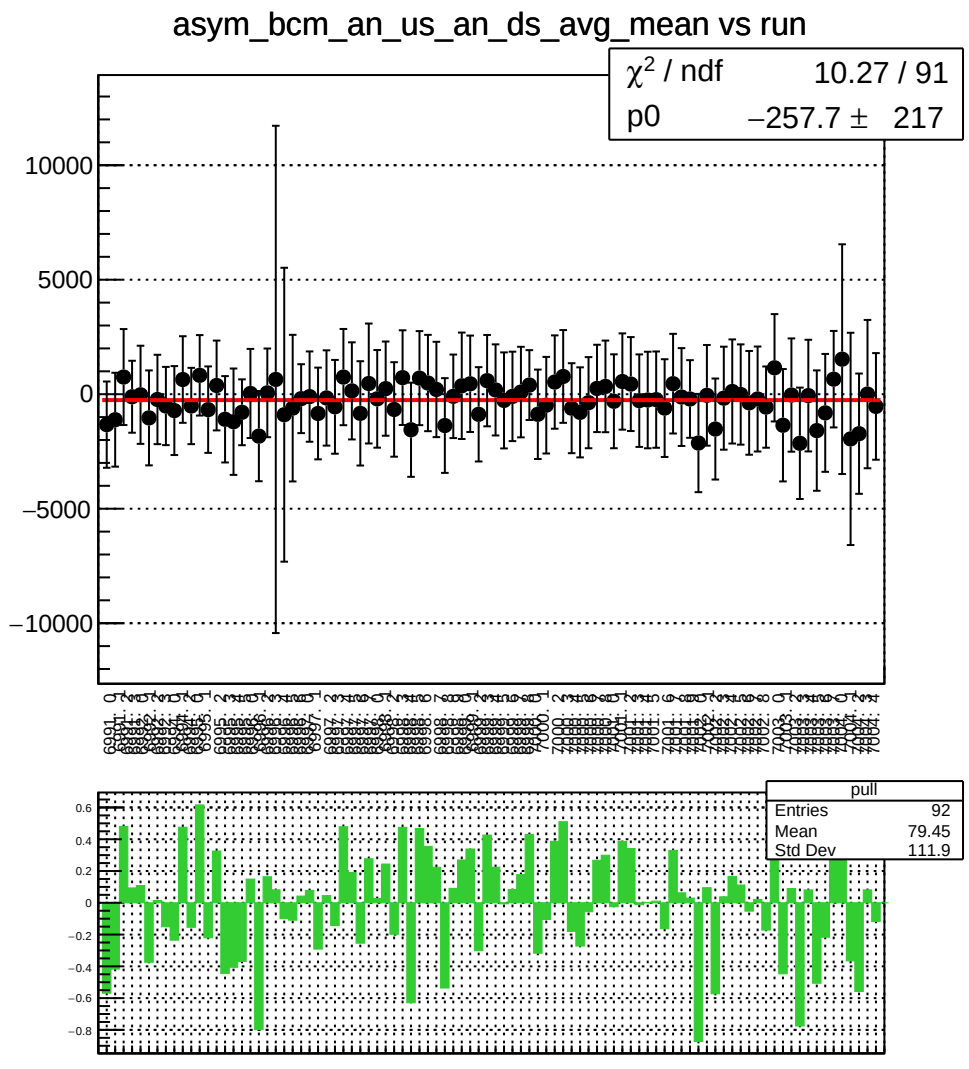

pull1D
Entries 92
Mean −0.003214
Std Dev 0.3328
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

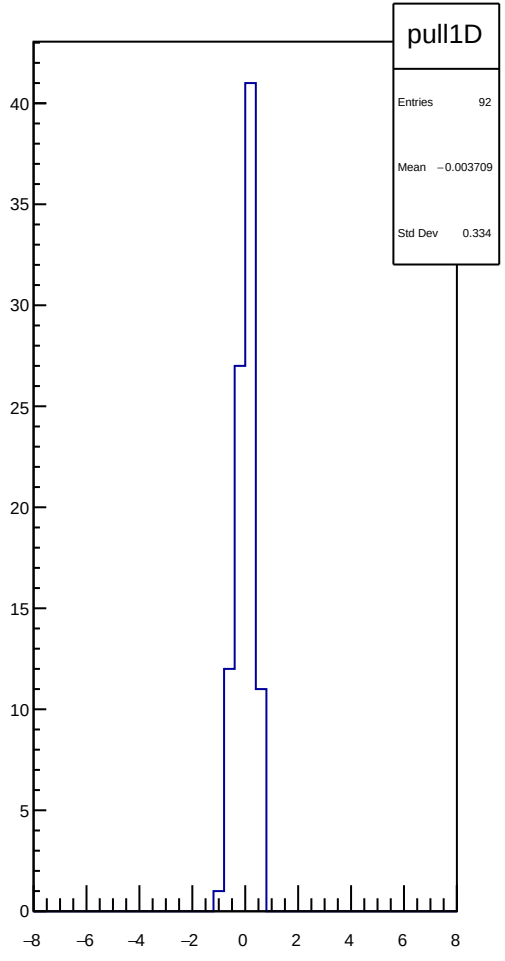

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 4.808e+04 / 91
p0 201.1 ± 0.1534
1000
800
600
400
200

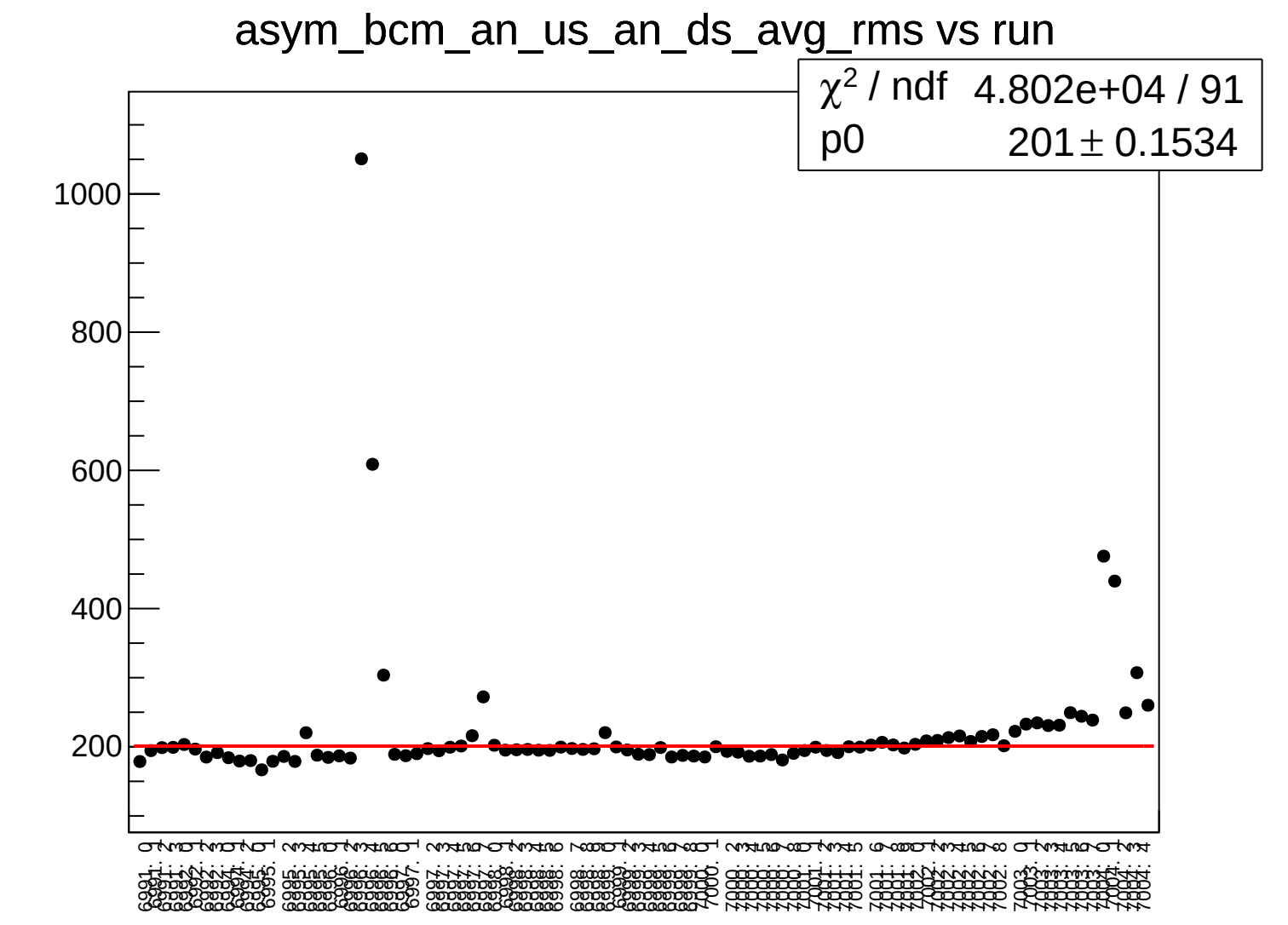

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 11.62 / 91
p0 −112.7 ± 73.56
pull
Entries 92
Mean 466.6
Std Dev 0

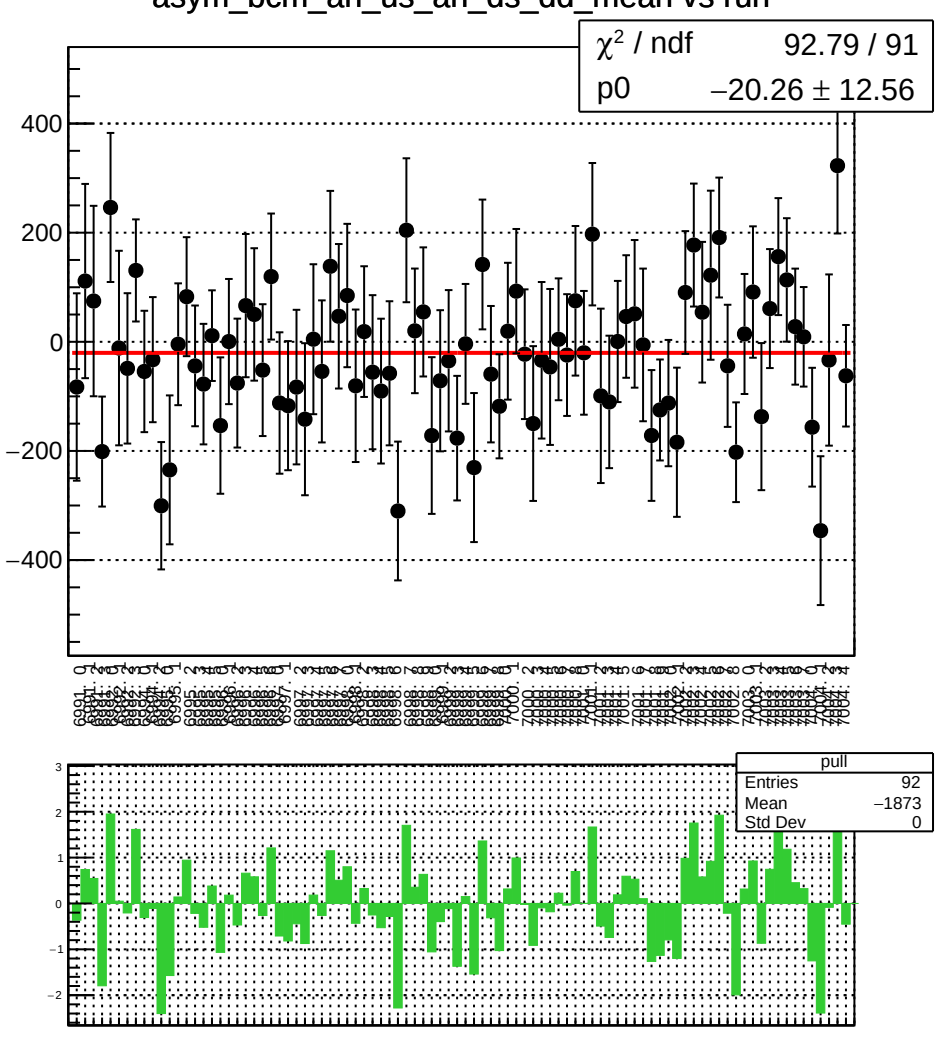

pull1D
Entries 92
Mean 0.0007896
Std Dev 0.3555

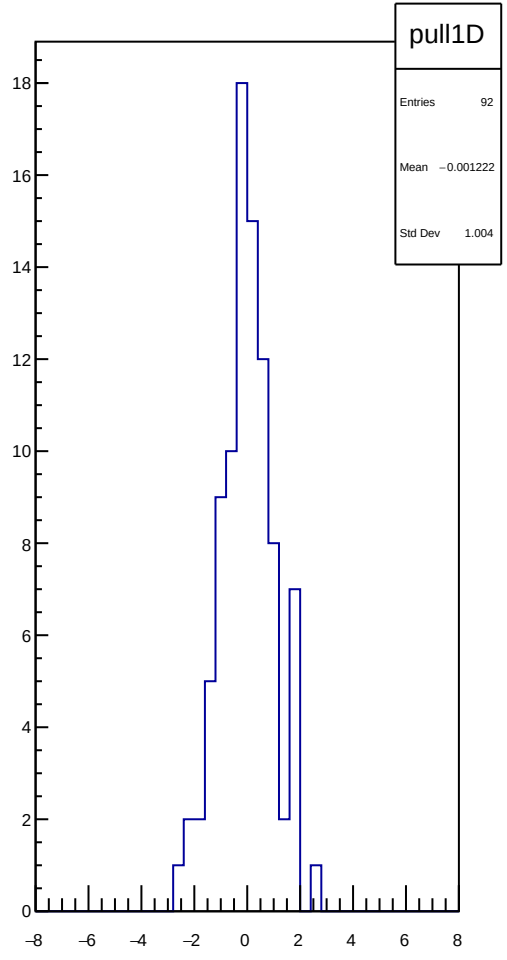

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 4.731e+04 / 91
p0 68.17 ± 0.05201
350
300
250
200
150
100
50


asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 10.27 / 91
p0 −257.7 ± 217
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 79.45
Std Dev 111.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

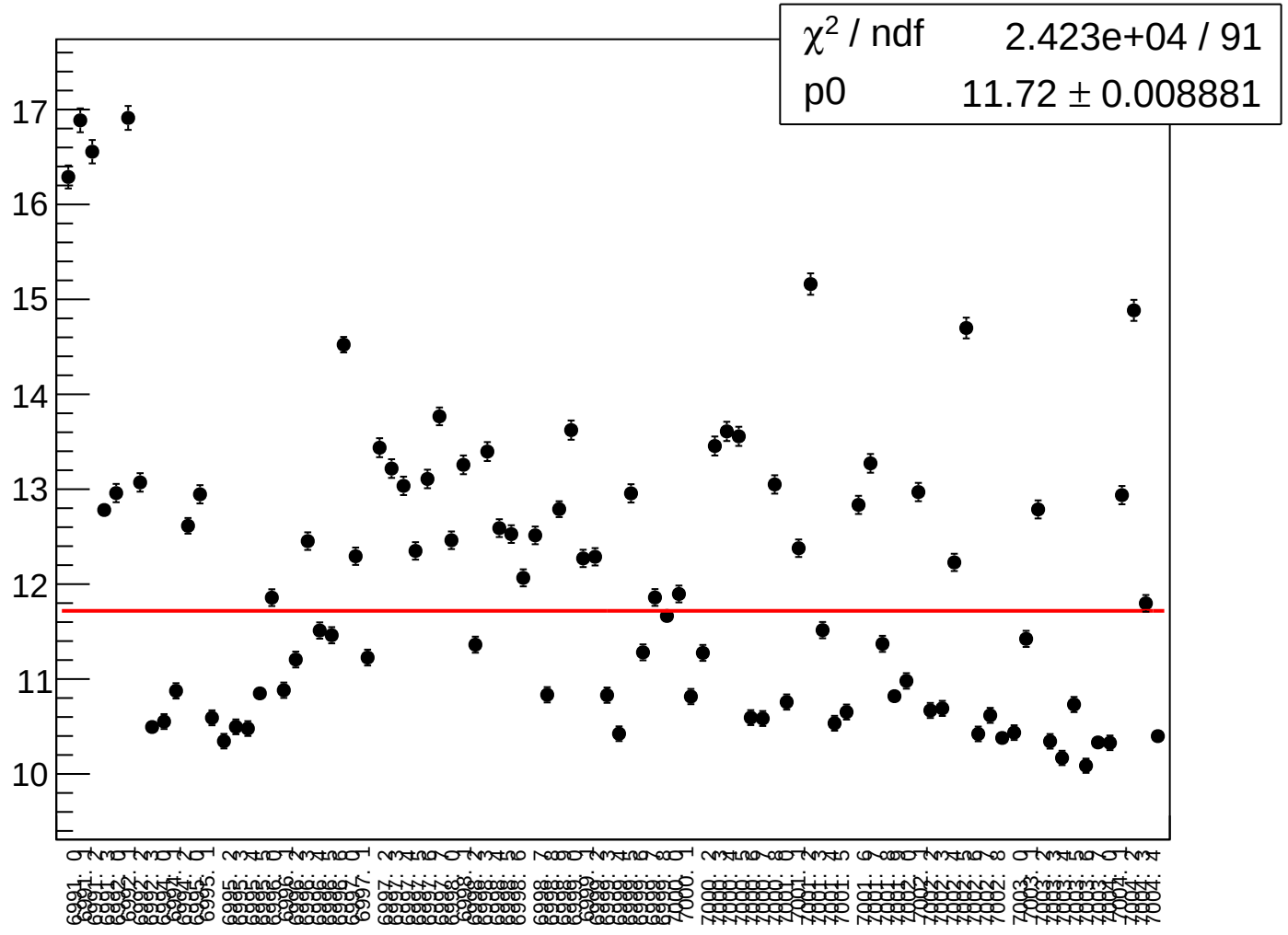

pull1D
Entries 92
Mean −0.003709
Std Dev 0.334
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

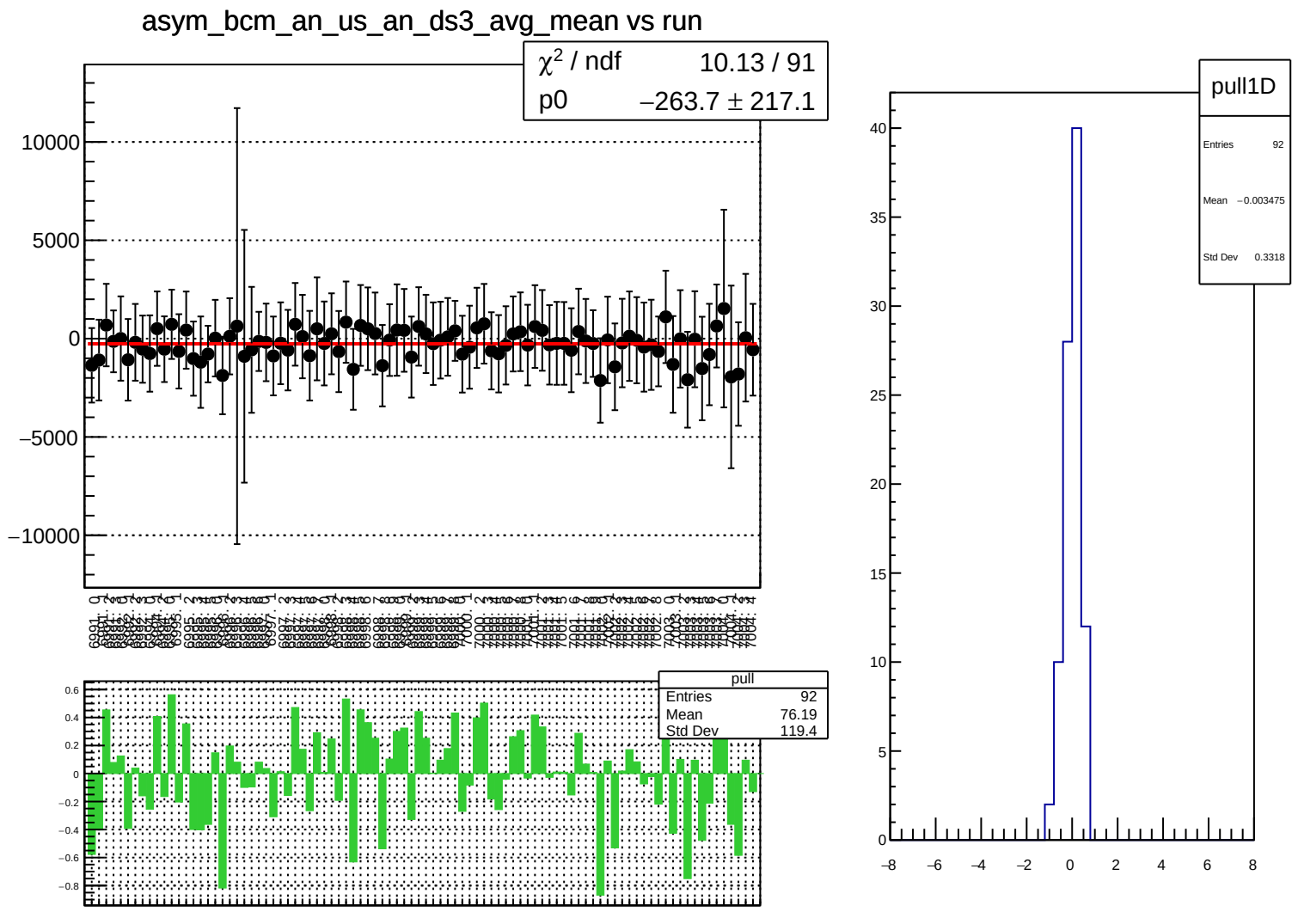

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 4.802e+04 / 91
p0 201 ± 0.1534
1000
800
600
400
200

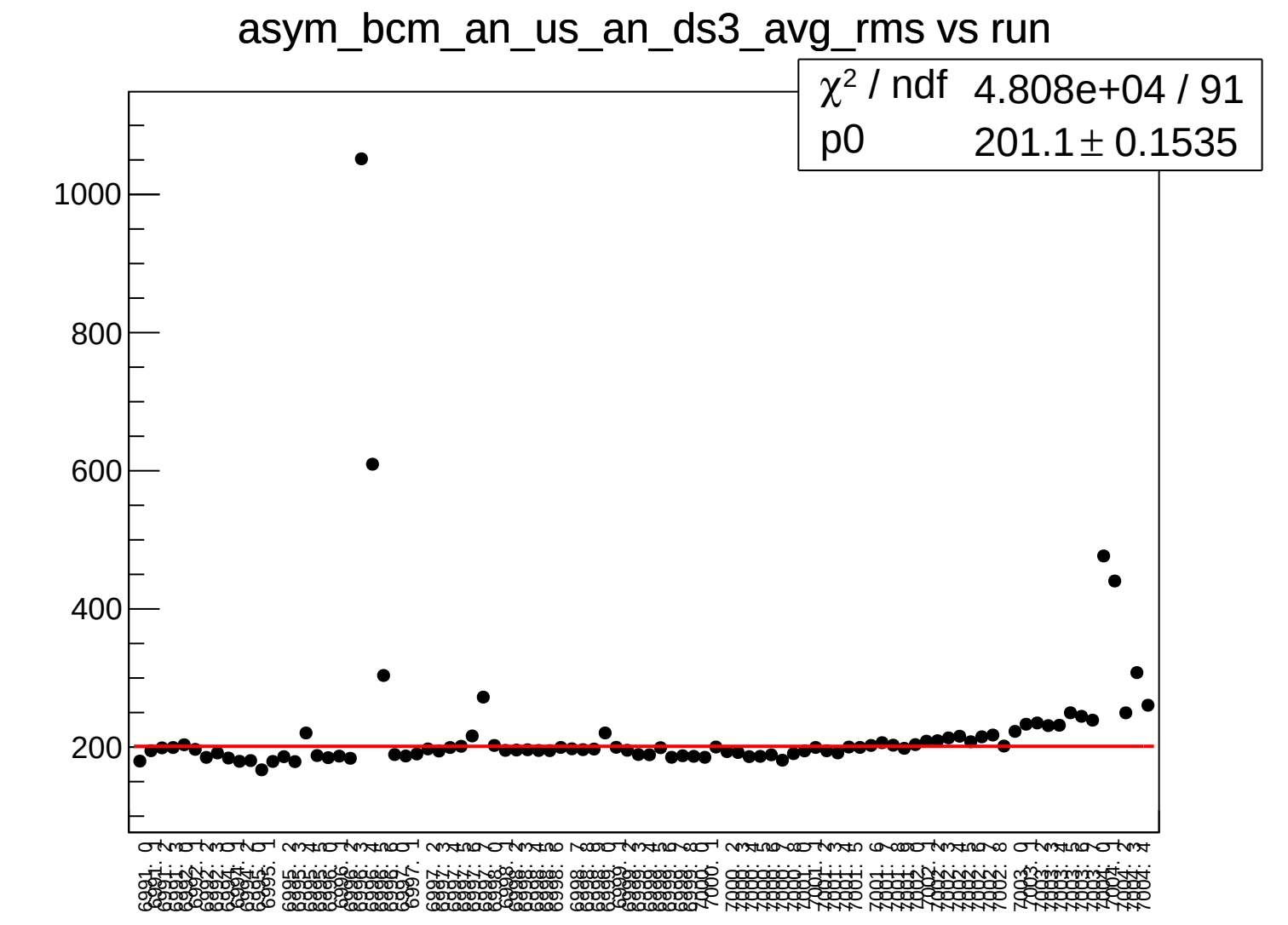

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 92.79 / 91
p0 −20.26 ± 12.56
400
200
0
−200
−400
pull
Entries 92
Mean −1873
Std Dev 0
3
2
1
0
−1
−2

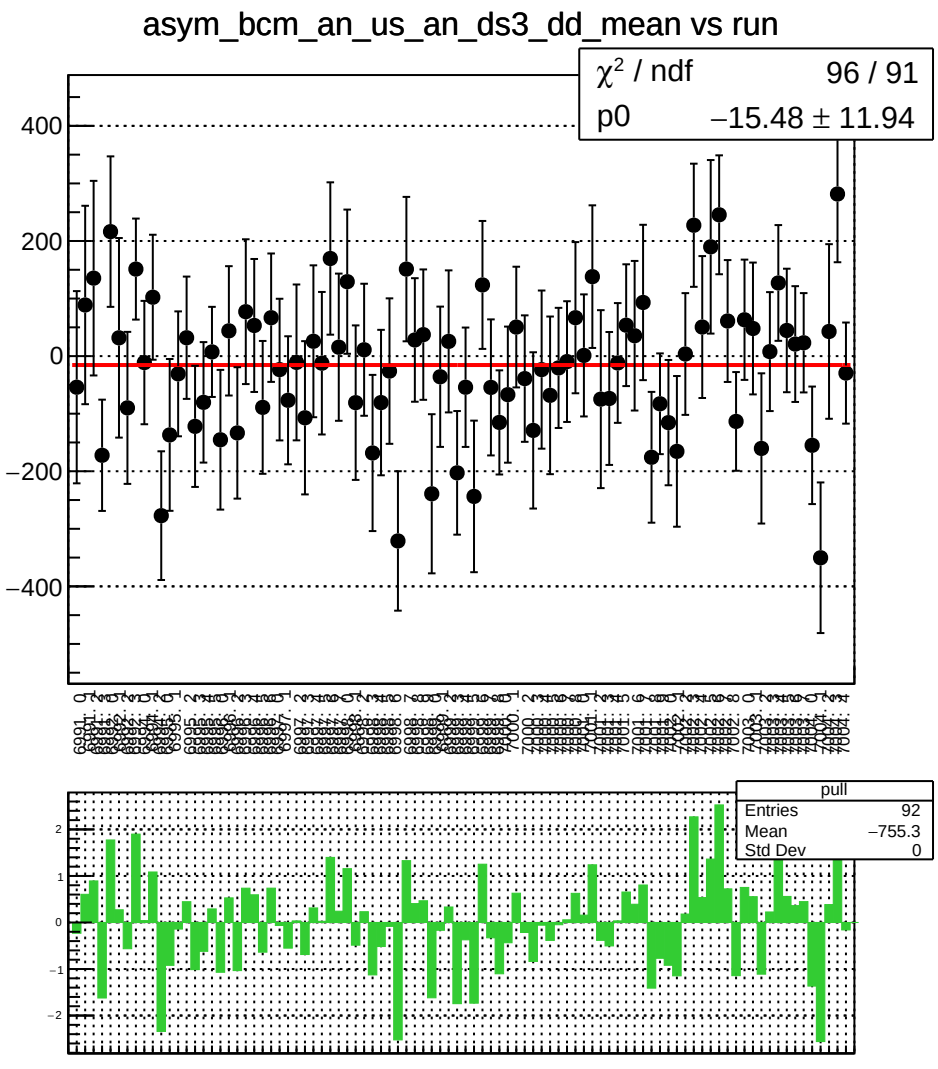

pull1D
Entries 92
Mean −0.001222
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

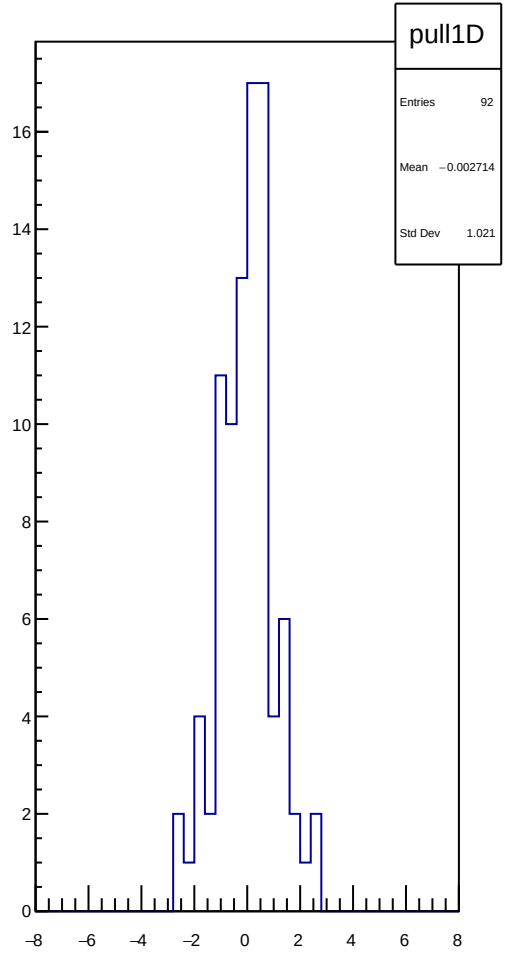
asym_bcm_an_us_an_ds_dd_rms vs run

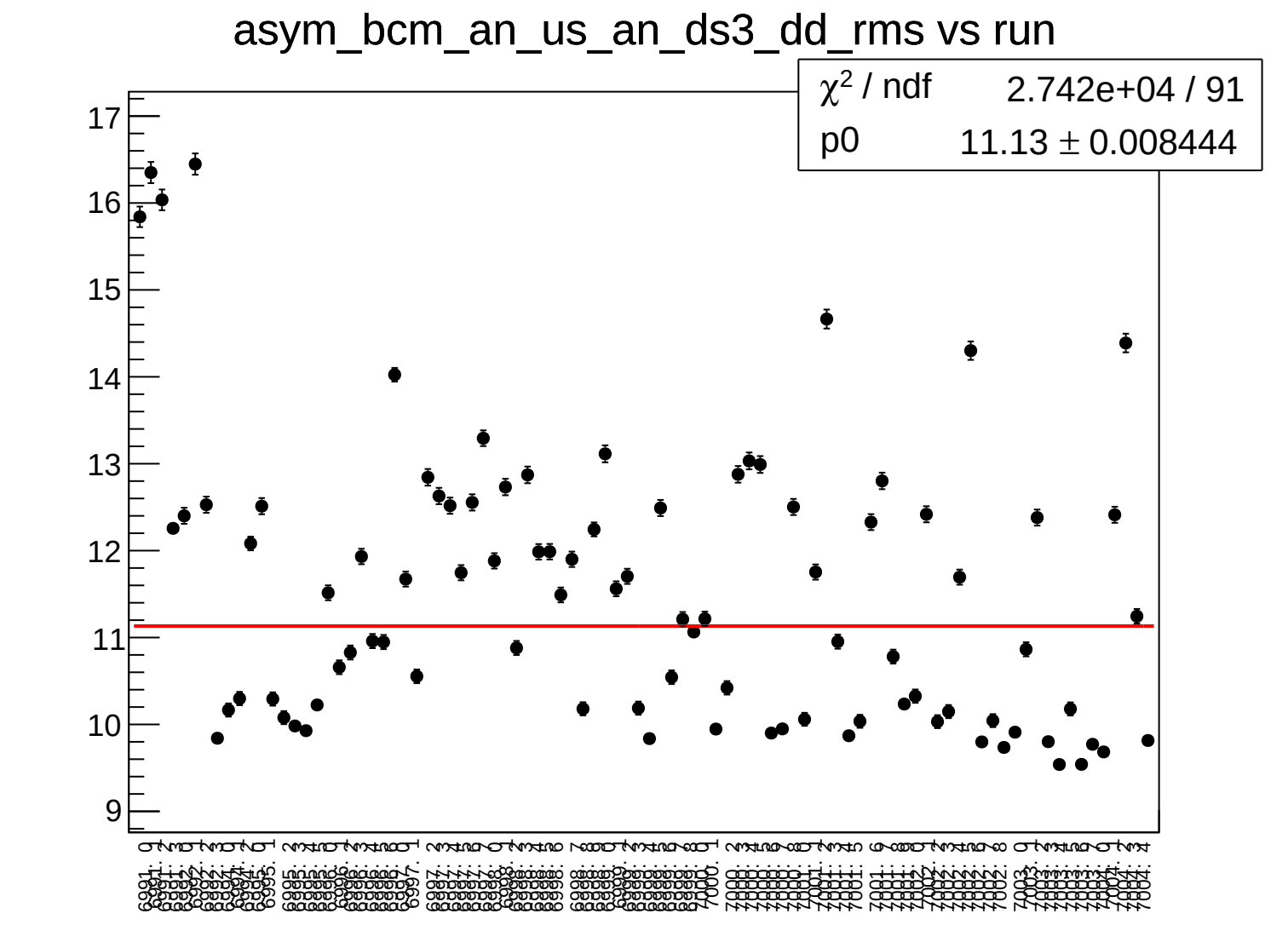


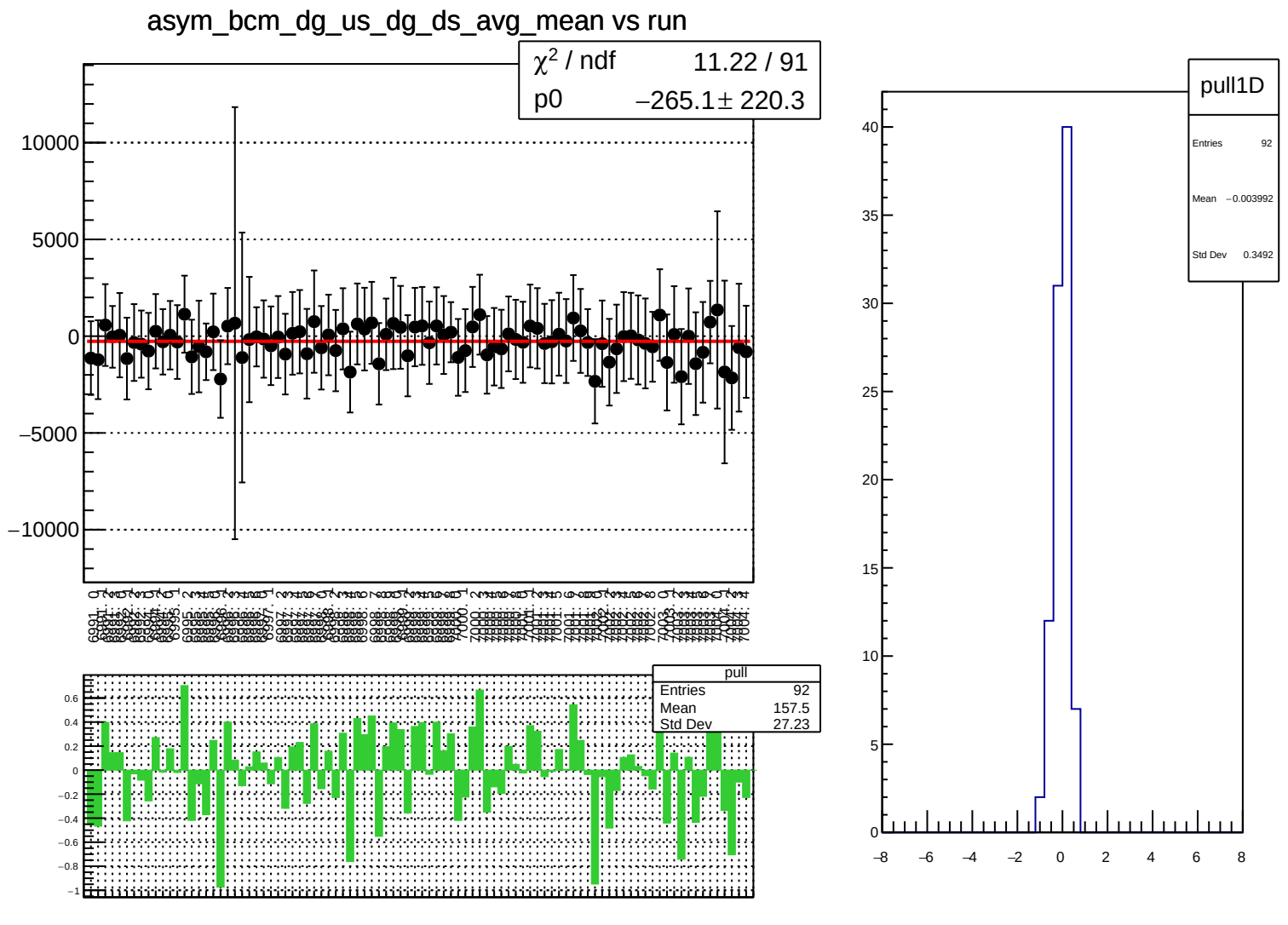

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 10.13 / 91
p0 −263.7 ± 217.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 76.19
Std Dev 119.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.003475
Std Dev 0.3318
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

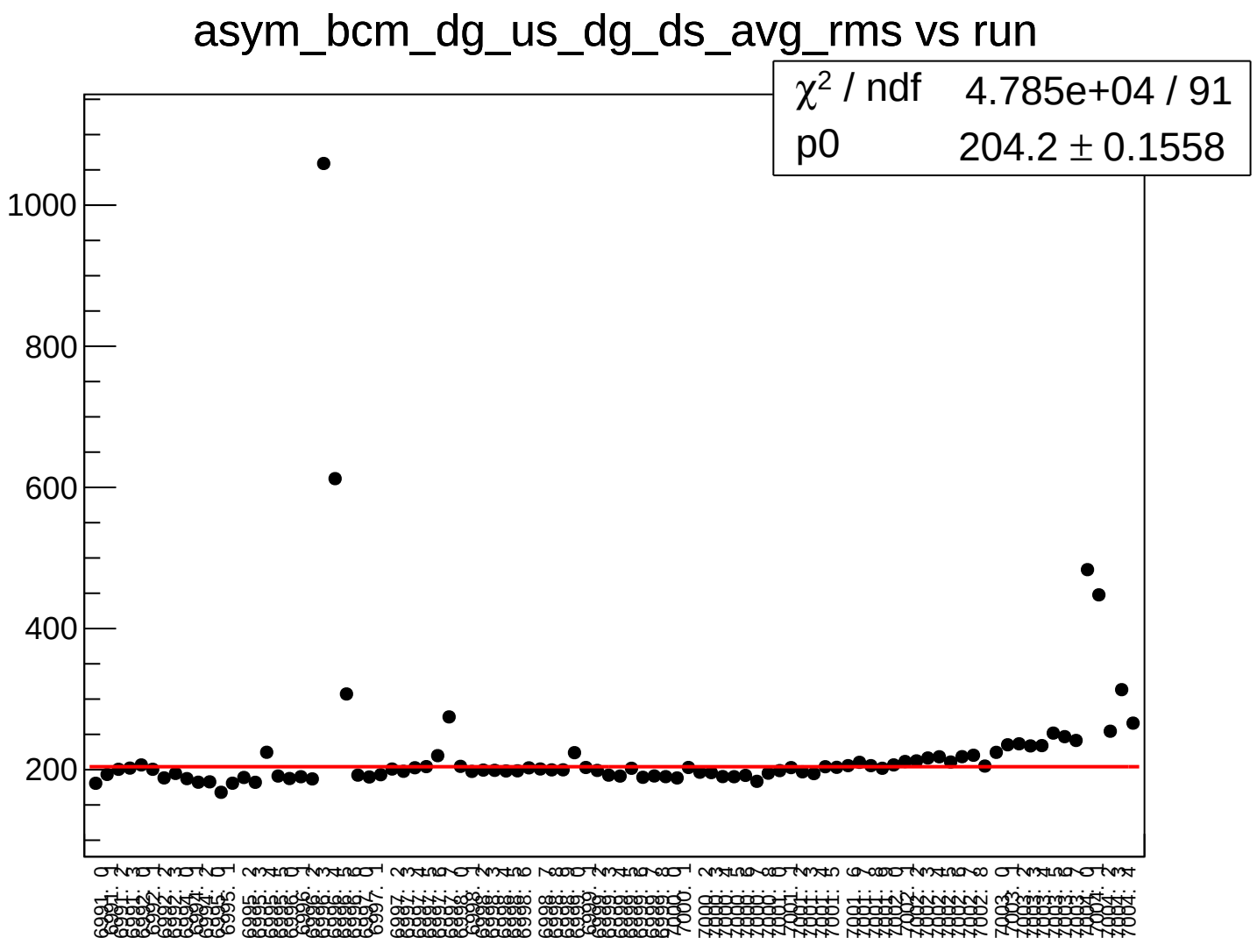

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 4.808e+04 / 91
p0 201.1 ± 0.1535
1000
800
600
400
200

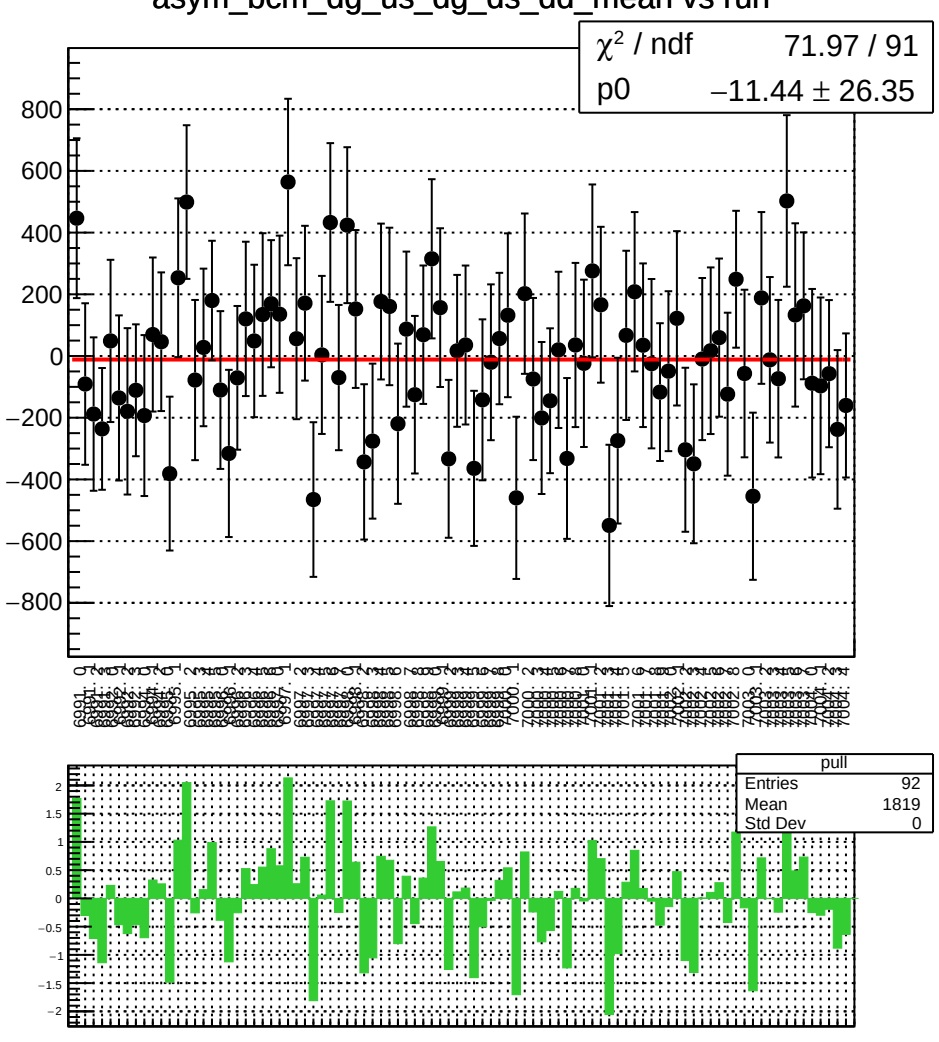

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 96 / 91
p0 −15.48 ± 11.94
400
200
0
−200
−400
pull
Entries 92
Mean −755.3
Std Dev 0
2
1
0
−1
−2

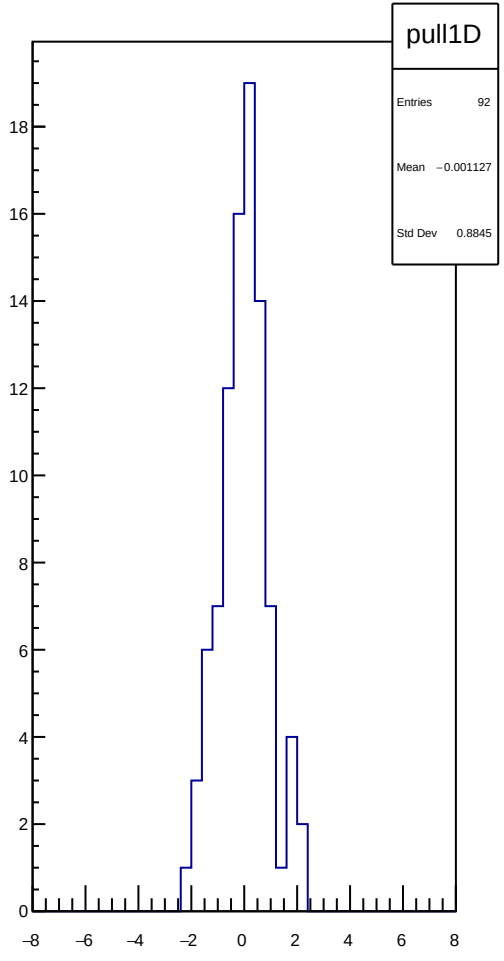

pull1D
Entries 92
Mean −0.002714
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

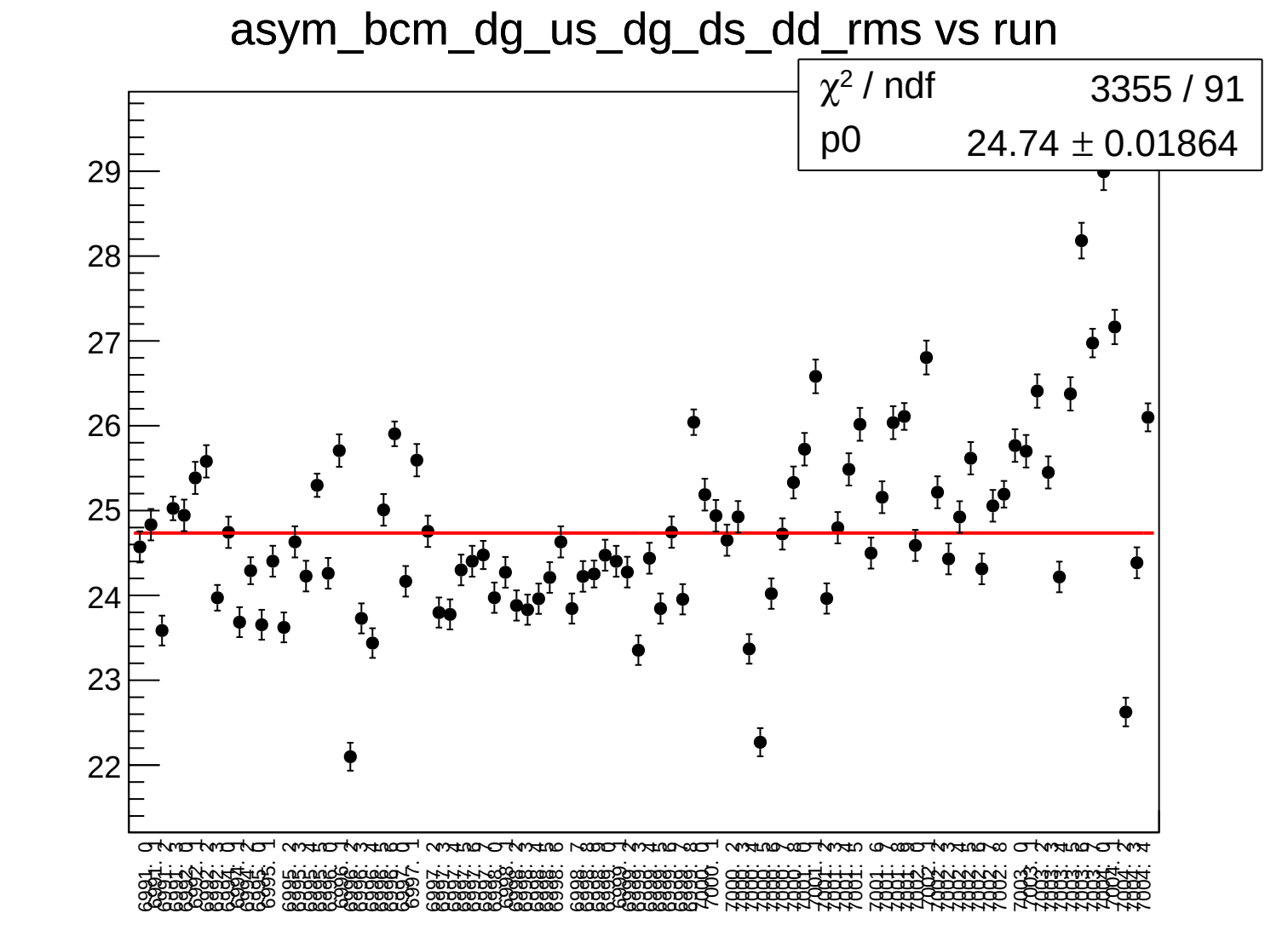

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 2.742e+04 / 91
p0 11.13 ± 0.008444
17
16
15
14
13
12
11
10
9

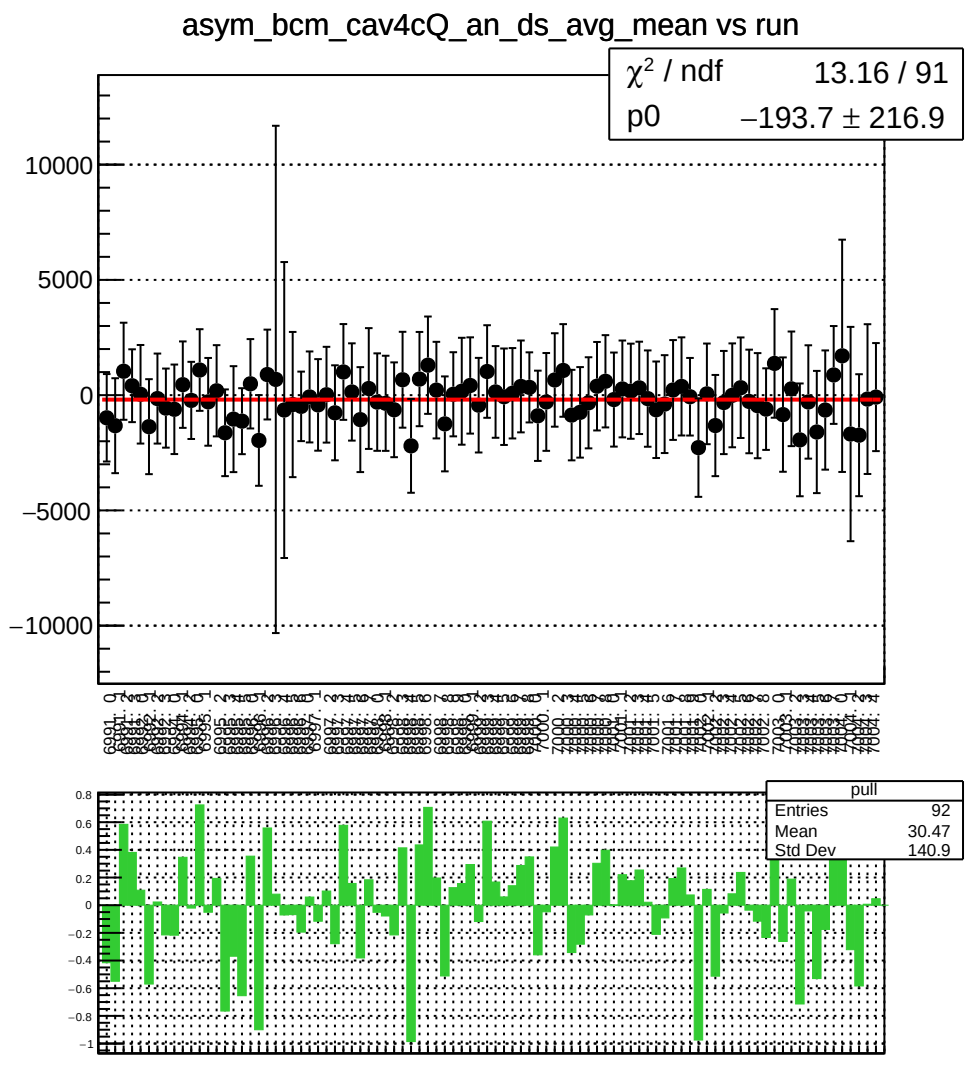

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 11.22 / 91
p0 −265.1± 220.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 157.5
Std Dev 27.23
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean −0.003992
Std Dev 0.3492
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

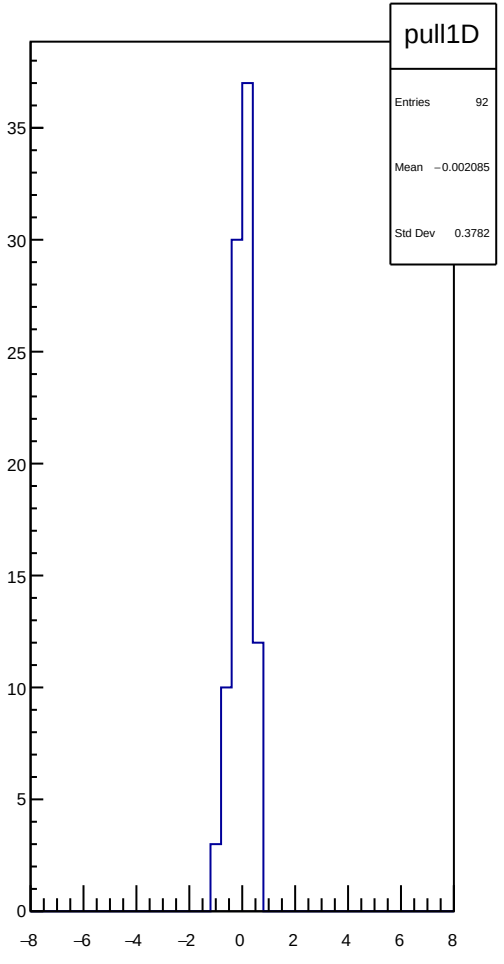

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 4.785e+04 / 91
p0 204.2 ± 0.1558
1000
800
600
400
200

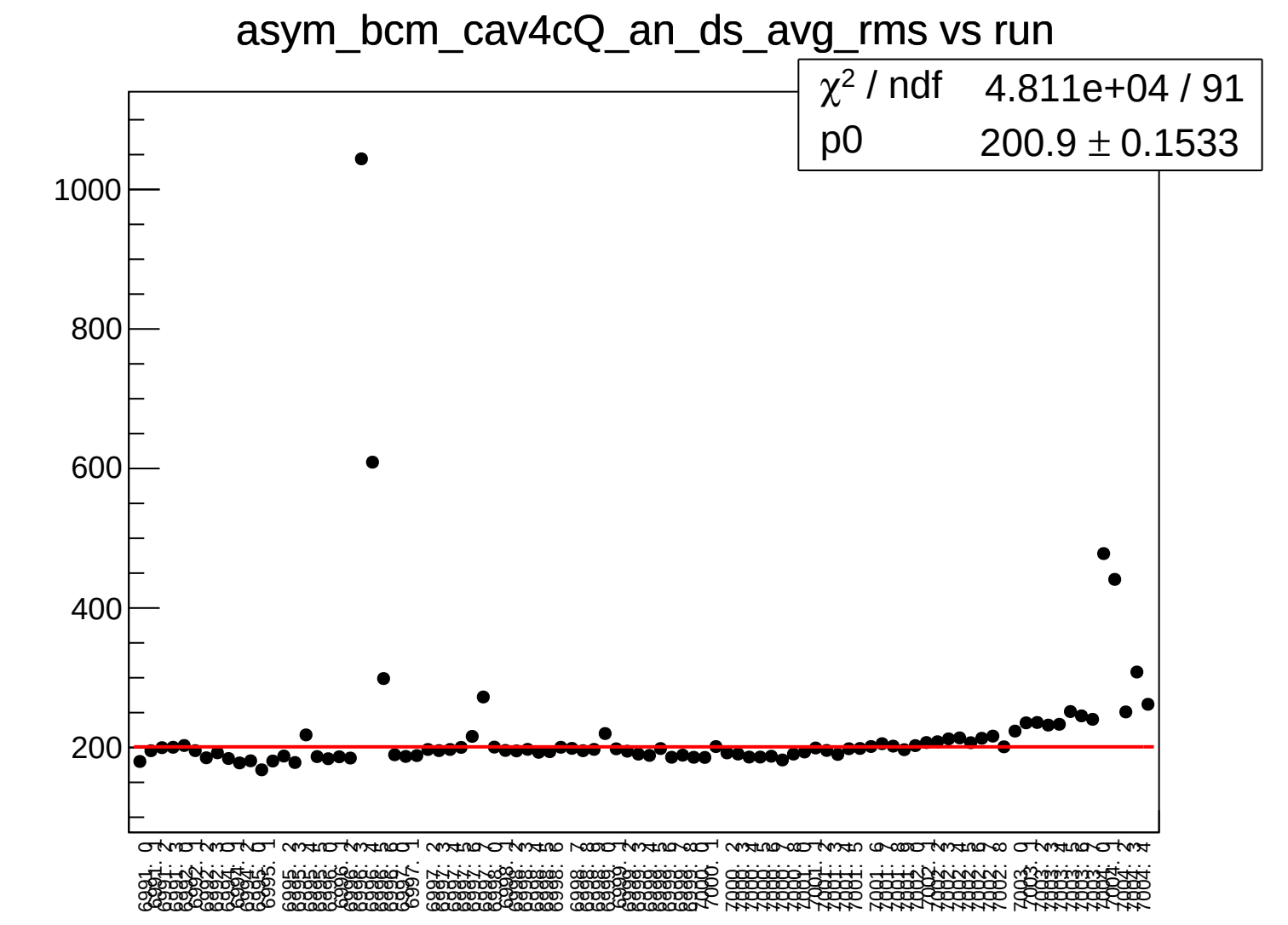

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 71.97 / 91
p0 −11.44 ± 26.35
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 92
Mean 1819
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

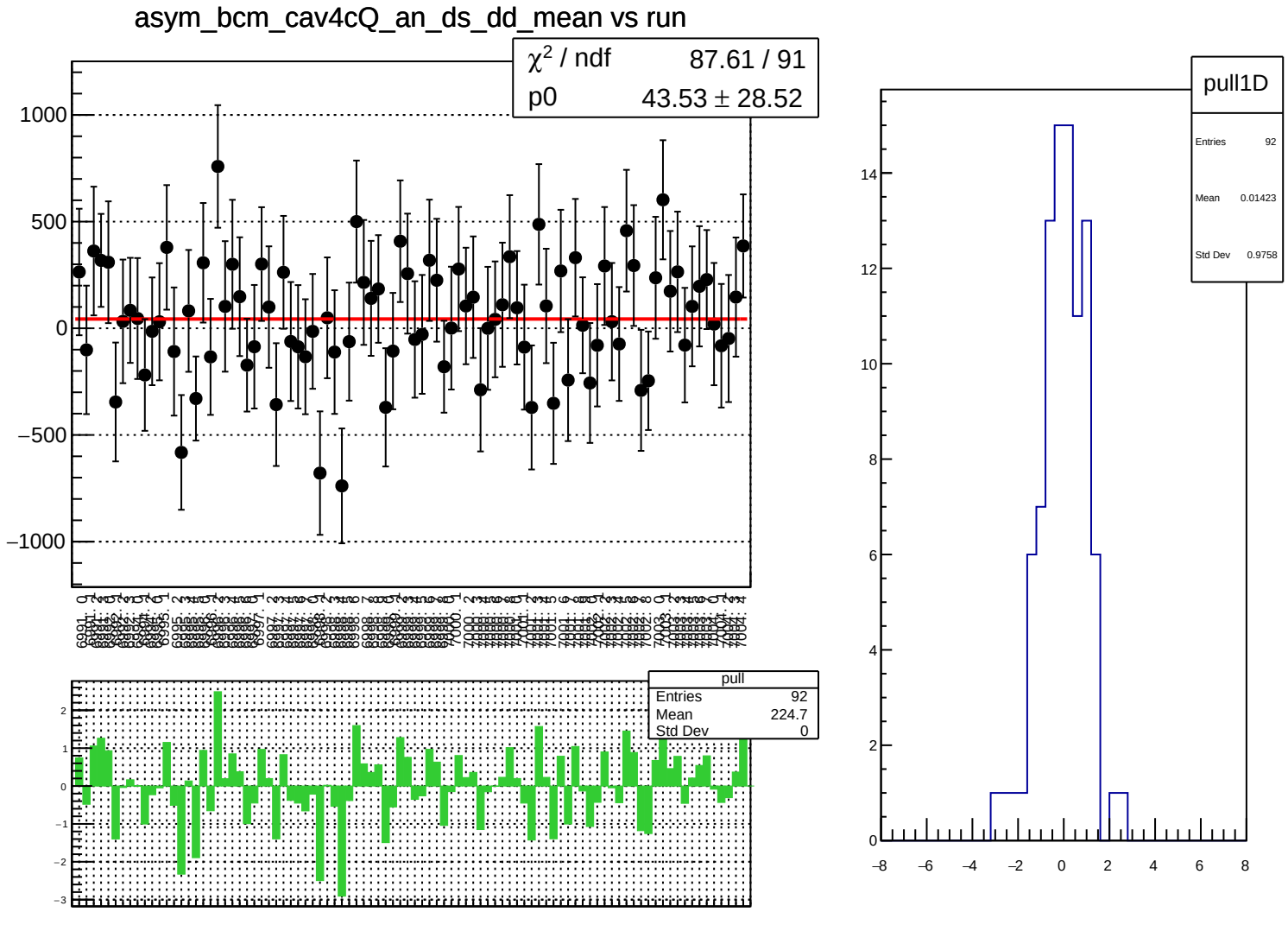

pull1D
Entries 92
Mean −0.001127
Std Dev 0.8845
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

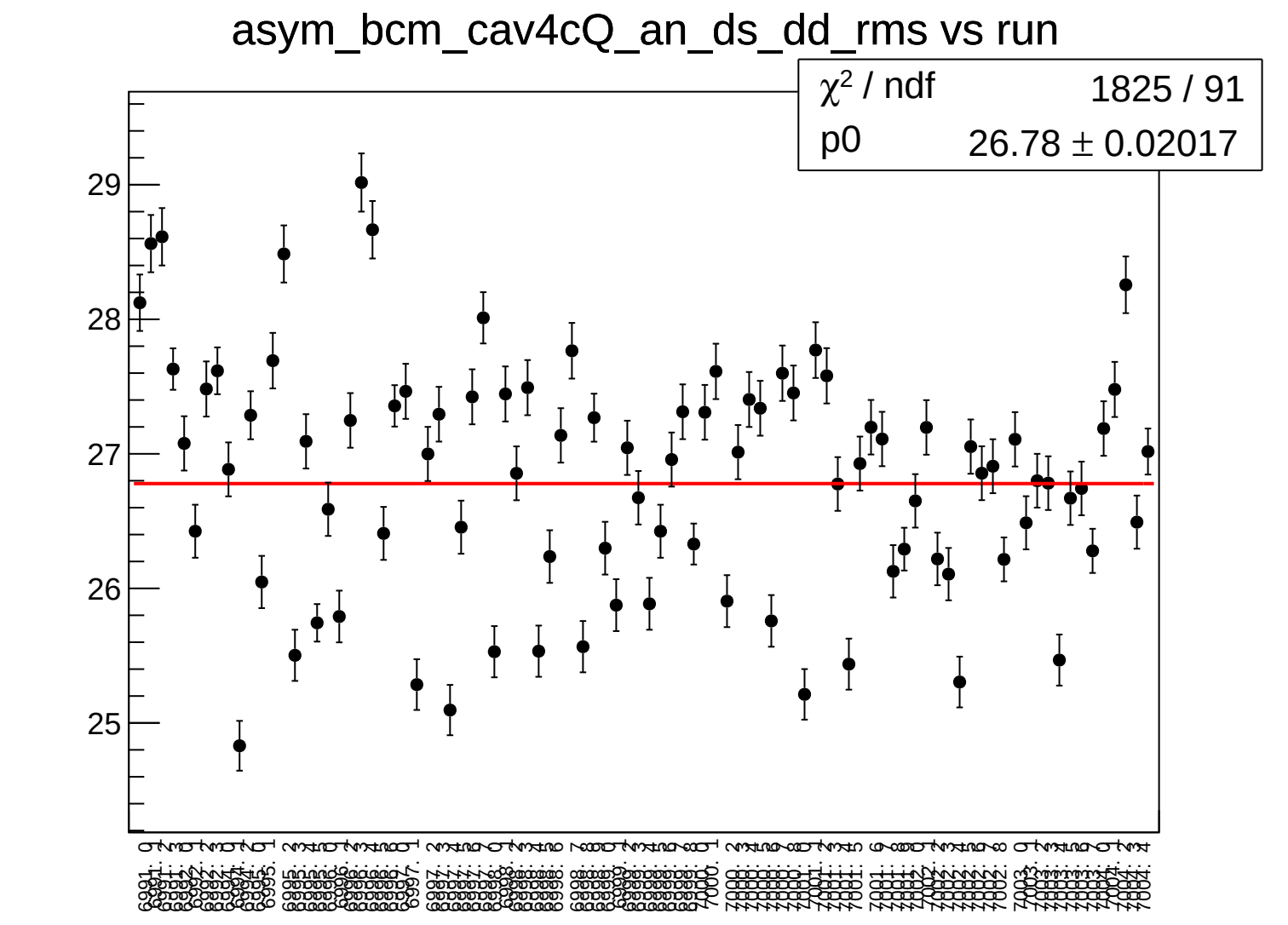

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 3355 / 91
p0 24.74 ± 0.01864
29
28
27
26
25
24
23
22

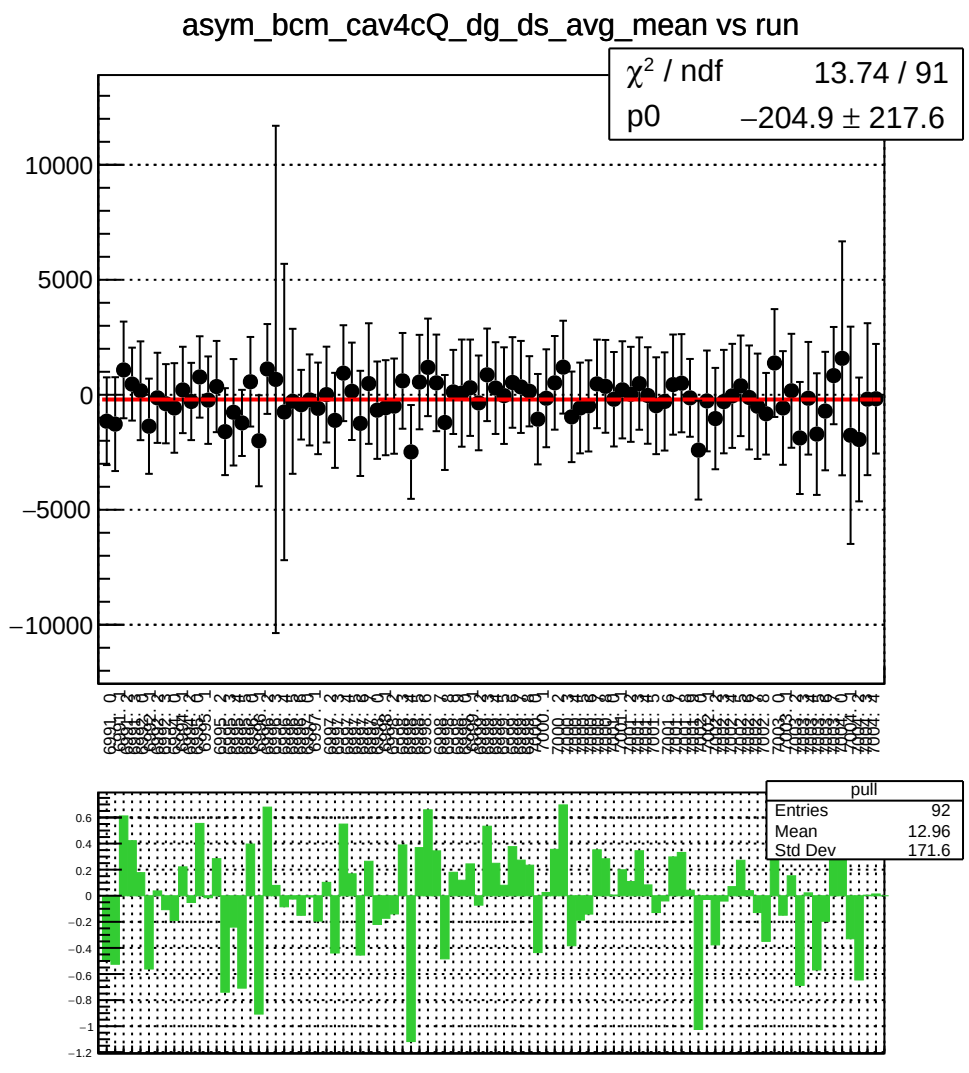

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 13.16 / 91
p0 −193.7 ± 216.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 30.47
Std Dev 140.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

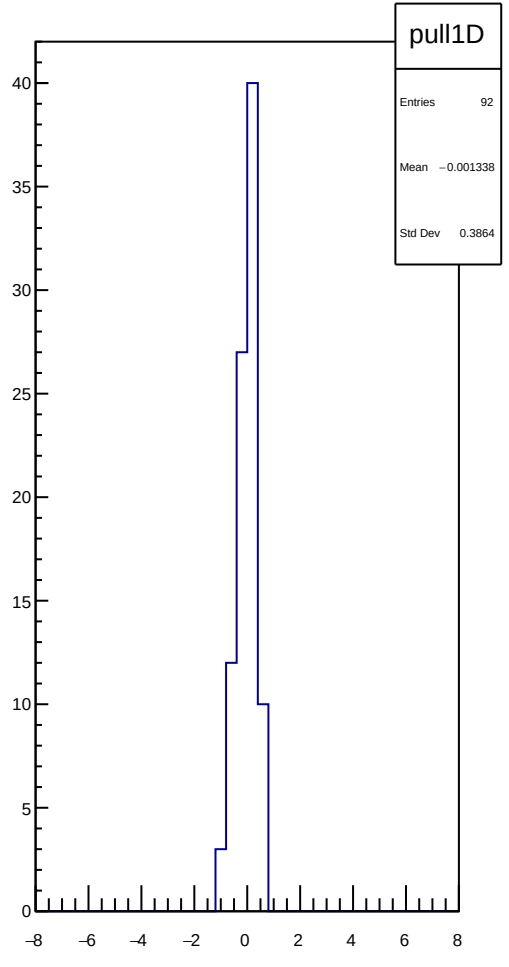

pull1D
Entries 92
Mean −0.002085
Std Dev 0.3782
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

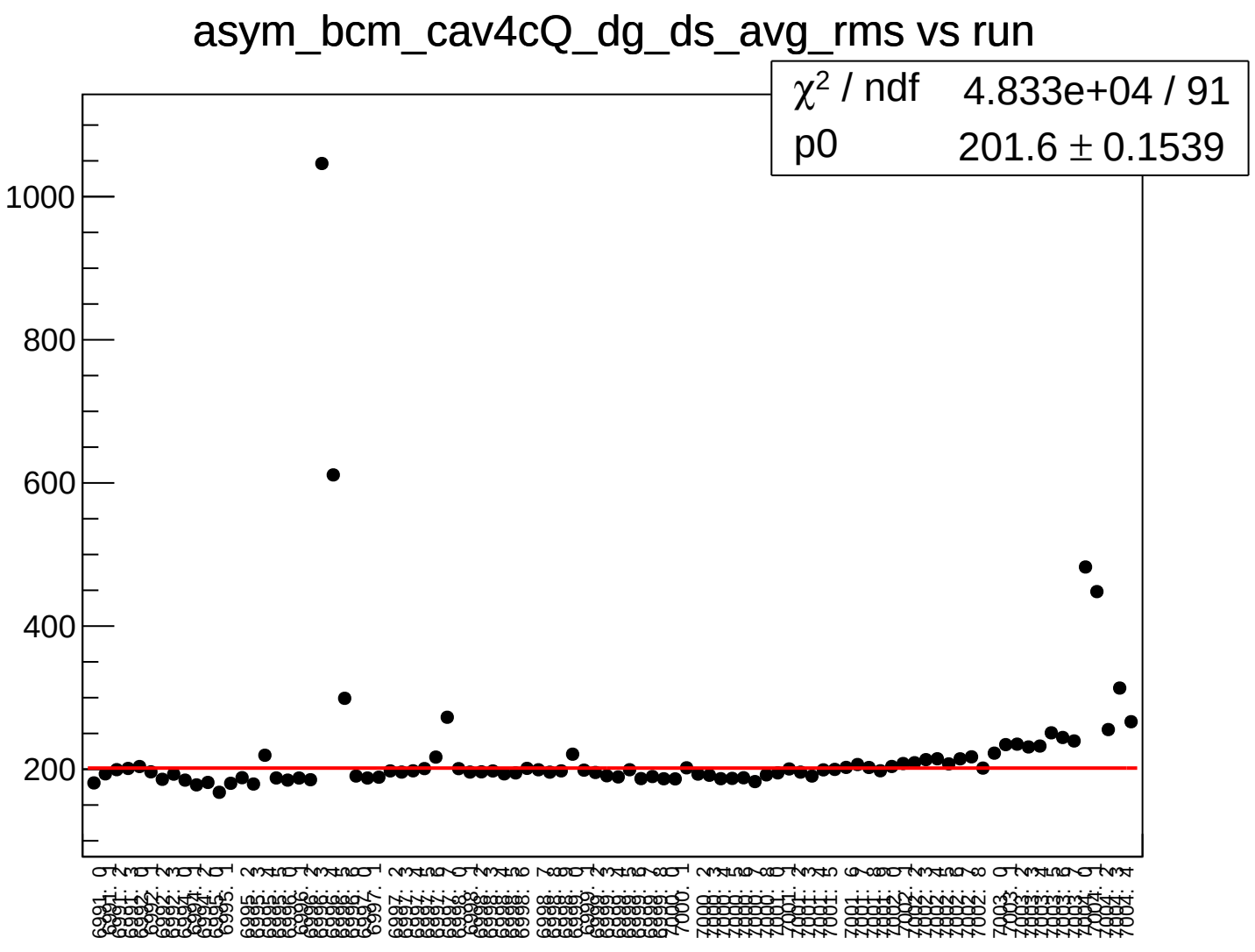

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 4.811e+04 / 91
p0 200.9 ± 0.1533
1000
800
600
400
200

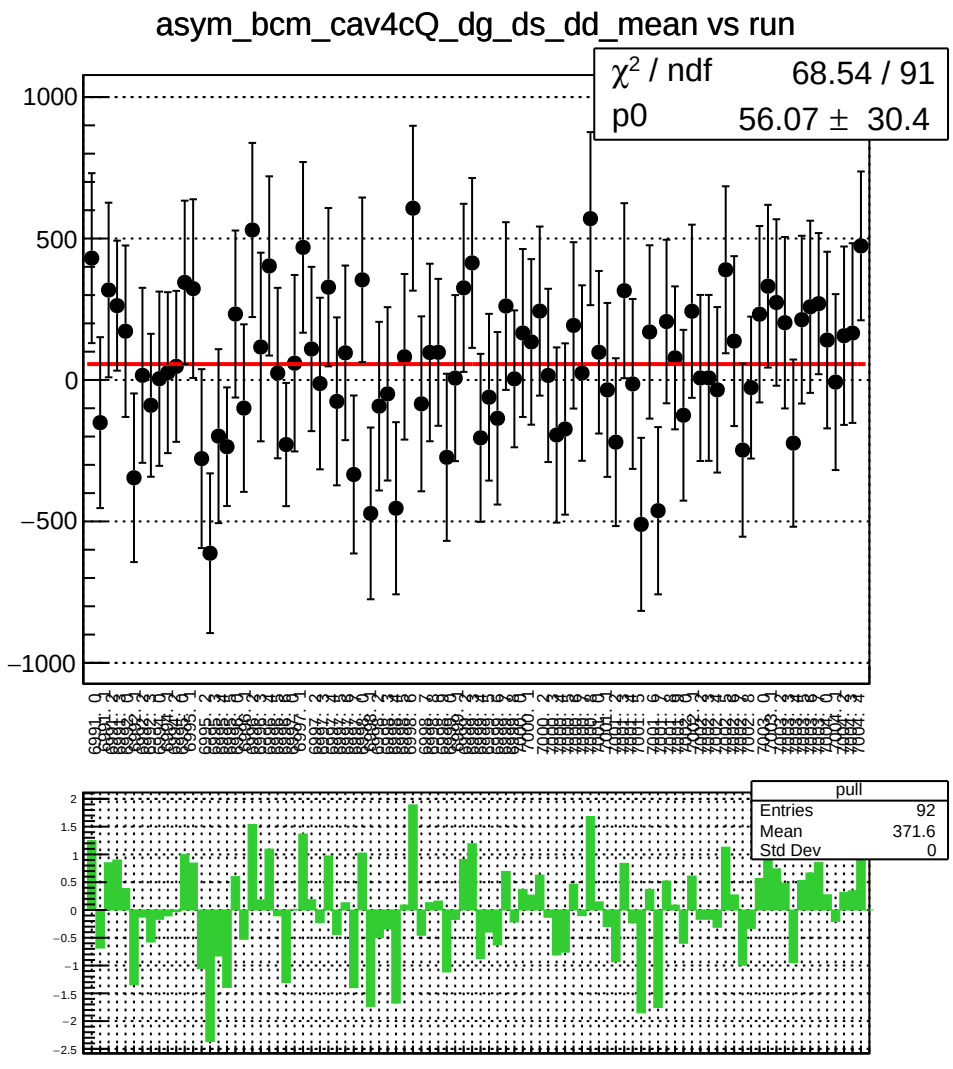

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 87.61 / 91
p0 43.53 ± 28.52
1000
500
0
−500
−1000
pull
Entries 92
Mean 224.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01423
Std Dev 0.9758
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

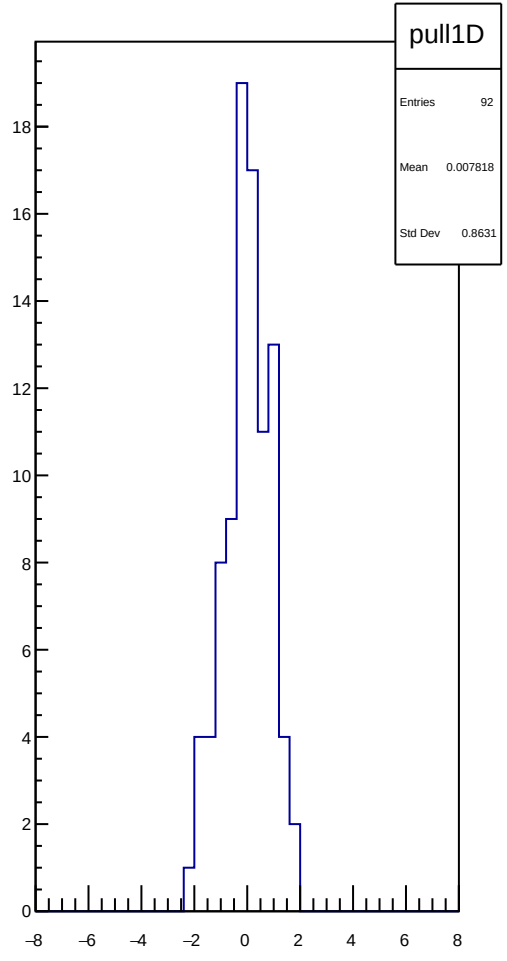

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1825 / 91
p0 26.78 ± 0.02017
29
28
27
26
25

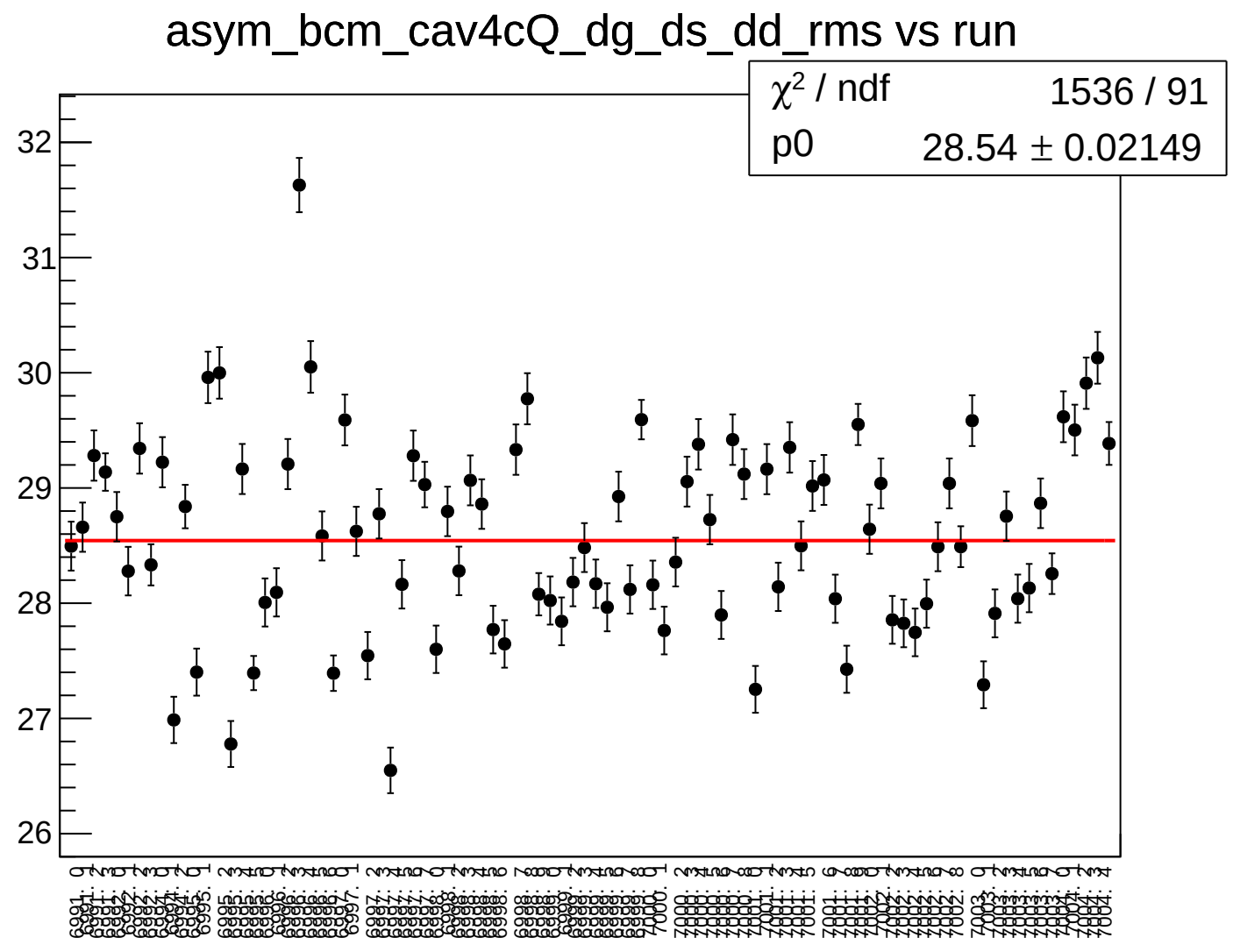

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 13.74 / 91
p0 −204.9 ± 217.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 12.96
Std Dev 171.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

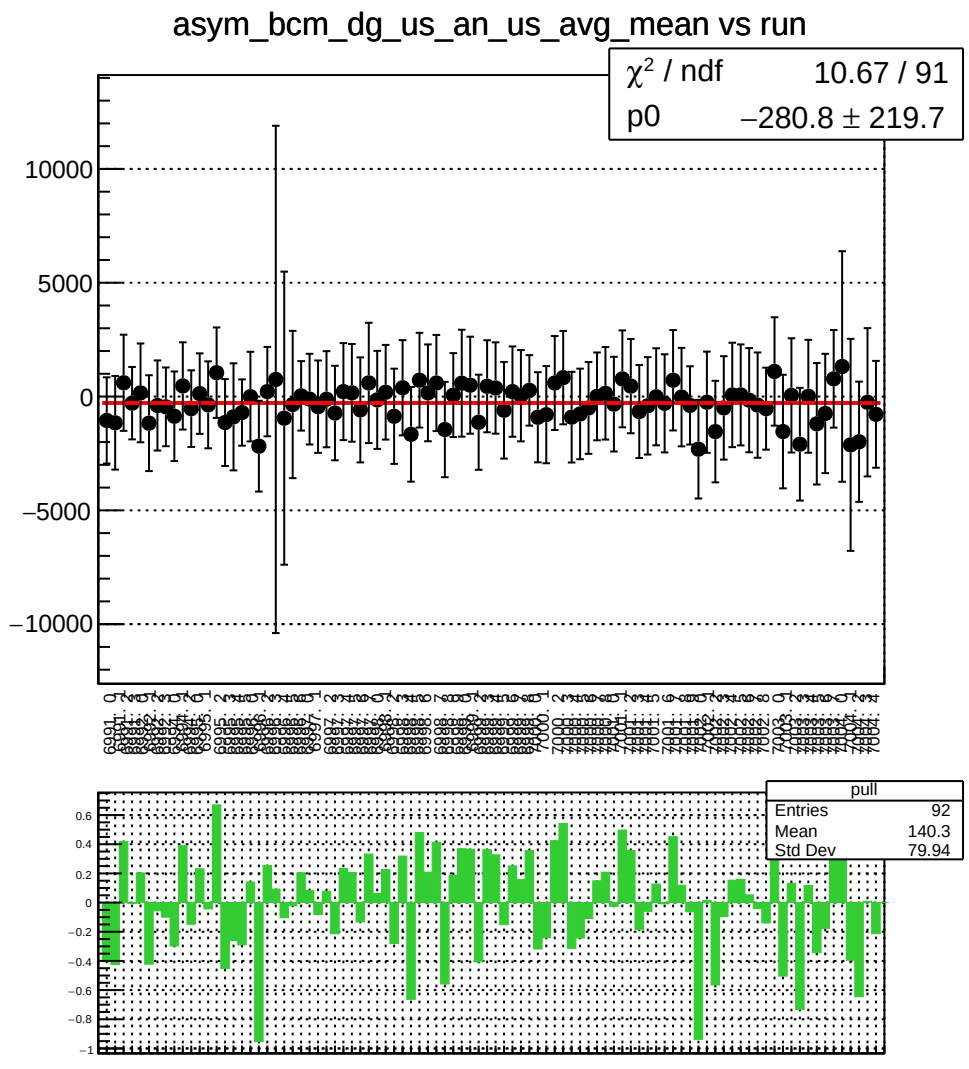

pull1D
Entries 92
Mean −0.001338
Std Dev 0.3864
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

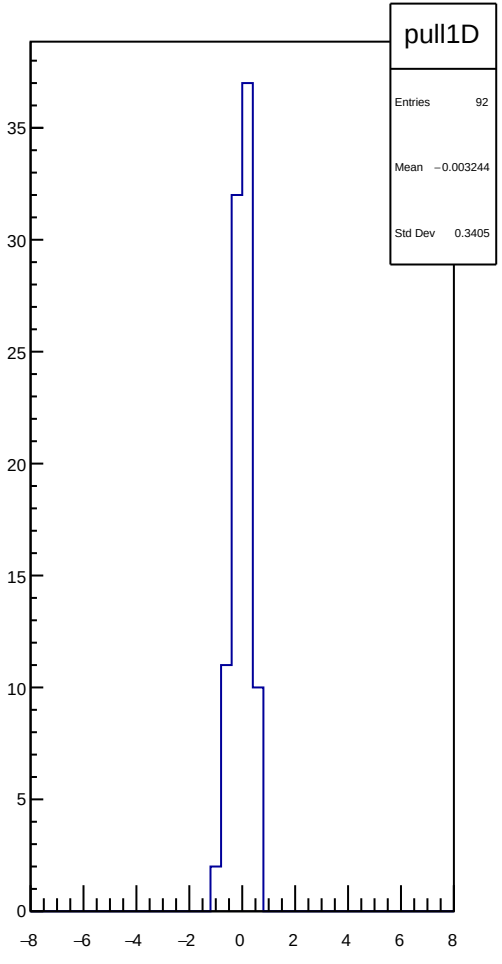

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 4.833e+04 / 91
p0 201.6 ± 0.1539
1000
800
600
400
200

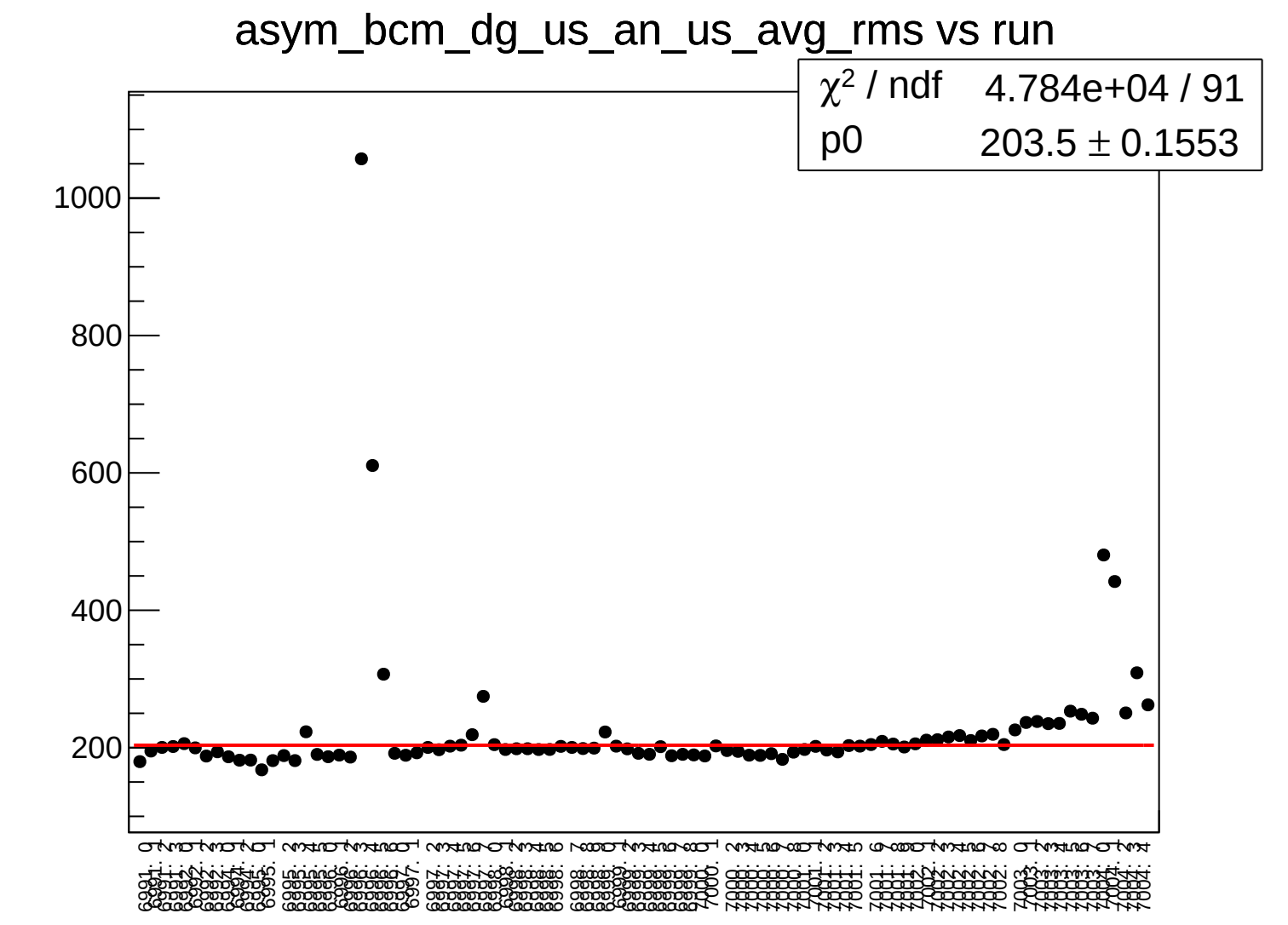

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 68.54 / 91
p0 56.07 ± 30.4
pull
Entries 92
Mean 371.6
Std Dev 0

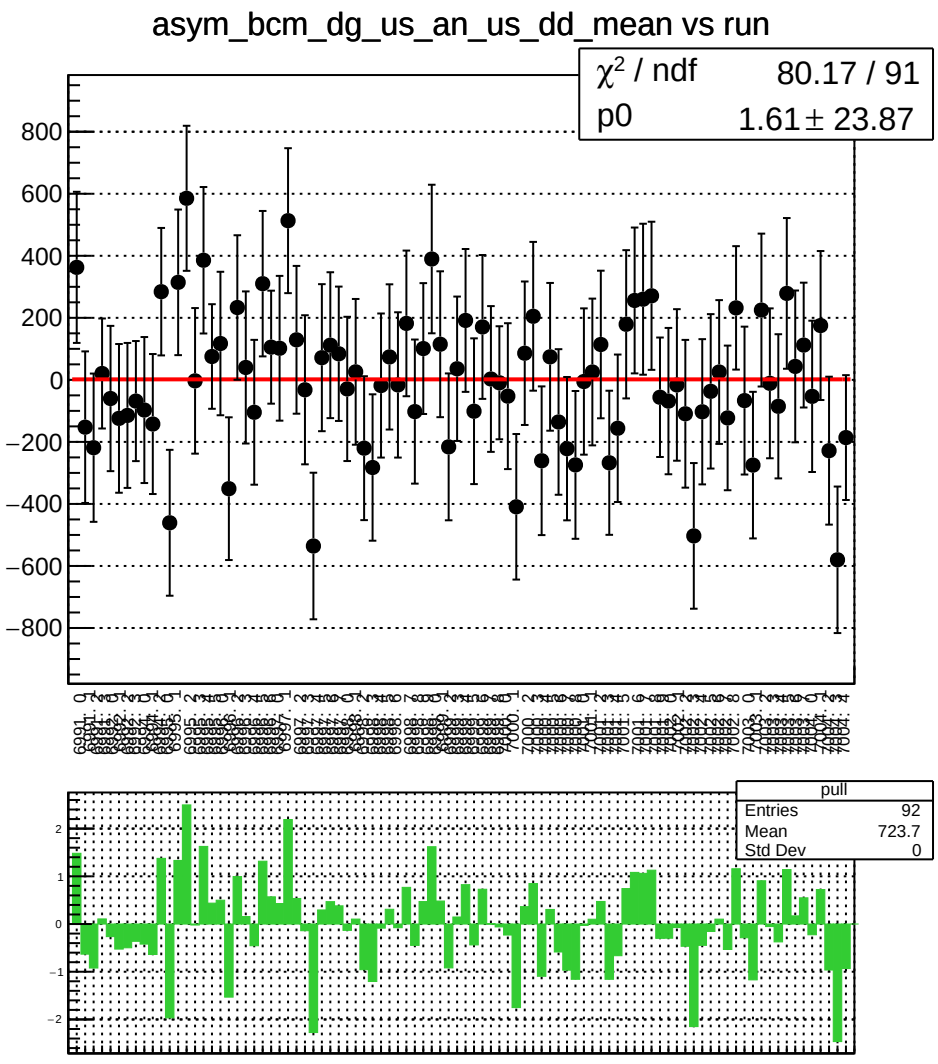

pull1D
Entries 92
Mean 0.007818
Std Dev 0.8631

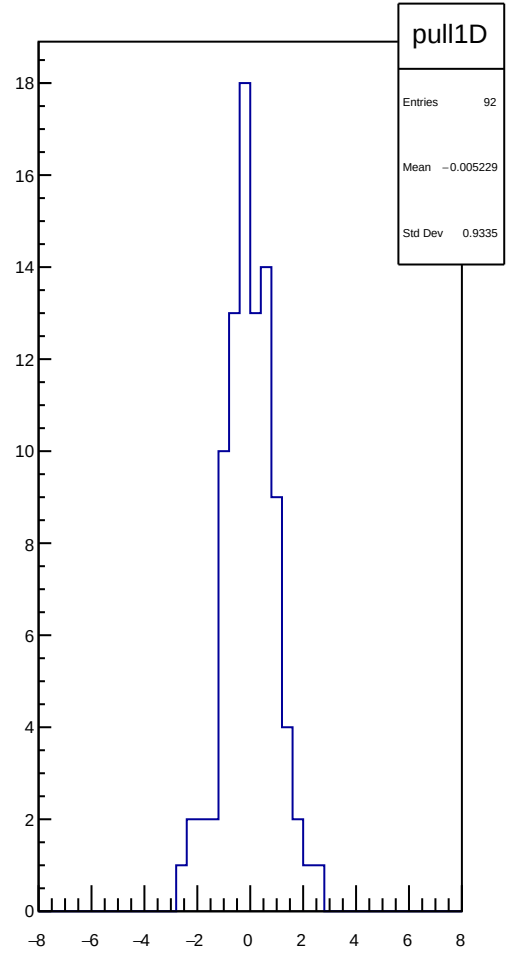

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 1536 / 91
p0 28.54 ± 0.02149
32
31
30
29
28
27
26

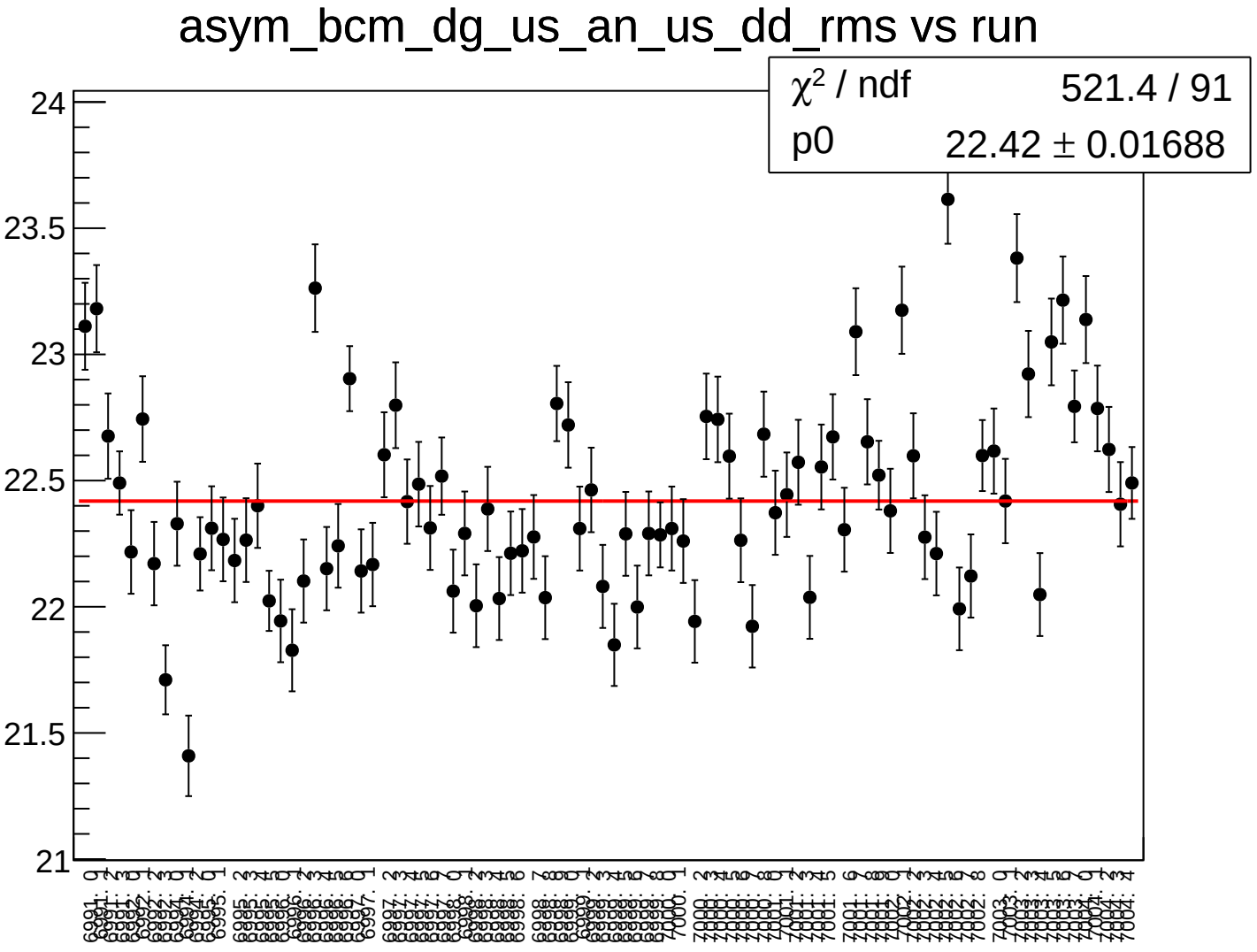

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 10.67 / 91
p0 −280.8 ± 219.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 140.3
Std Dev 79.94
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

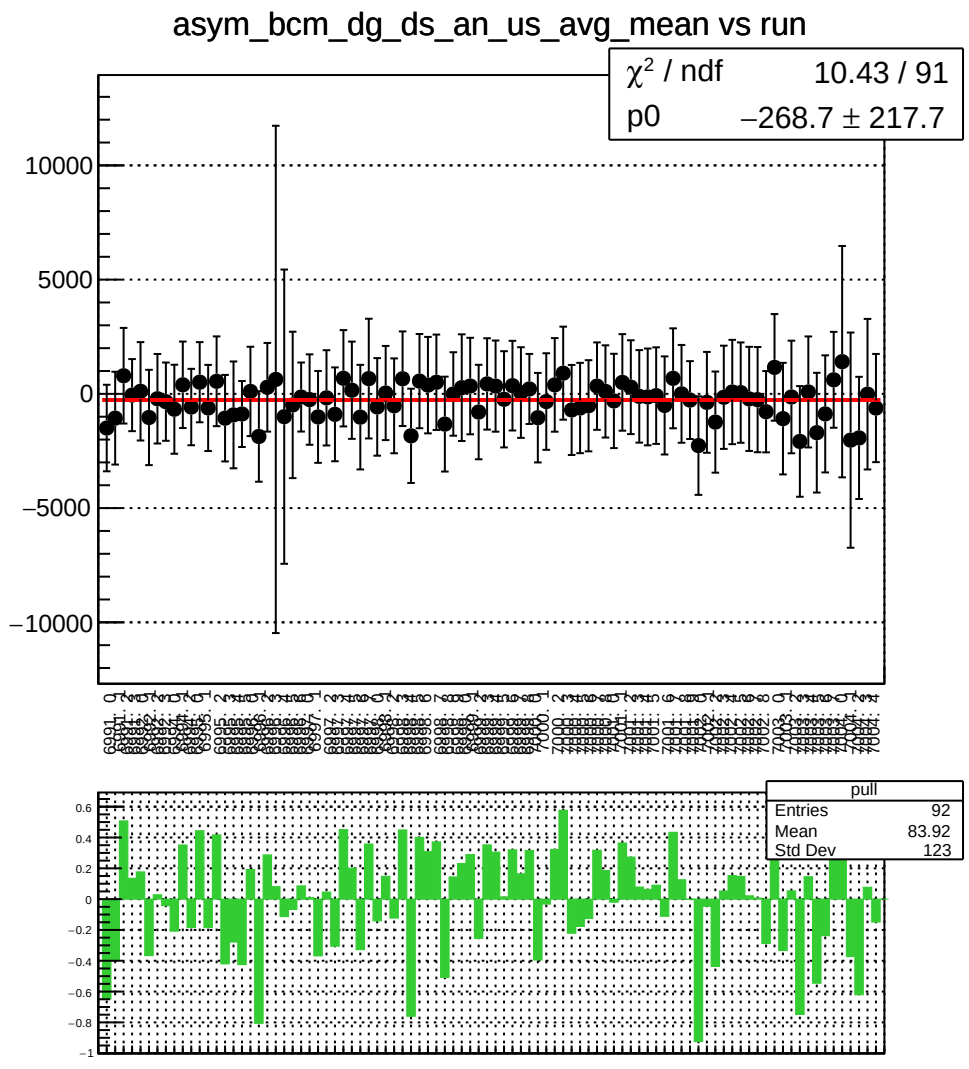

pull1D
Entries 92
Mean −0.003244
Std Dev 0.3405
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

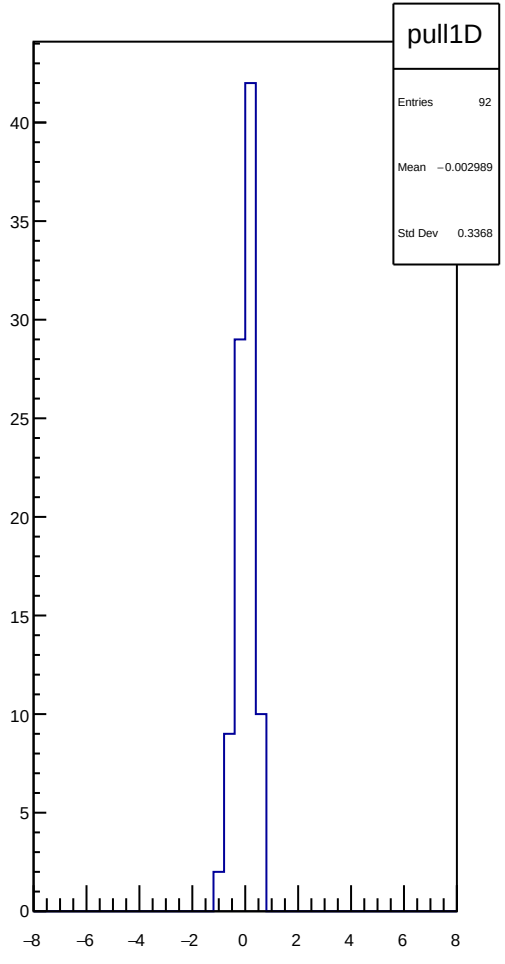

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 4.784e+04 / 91
p0 203.5 ± 0.1553
1000
800
600
400
200

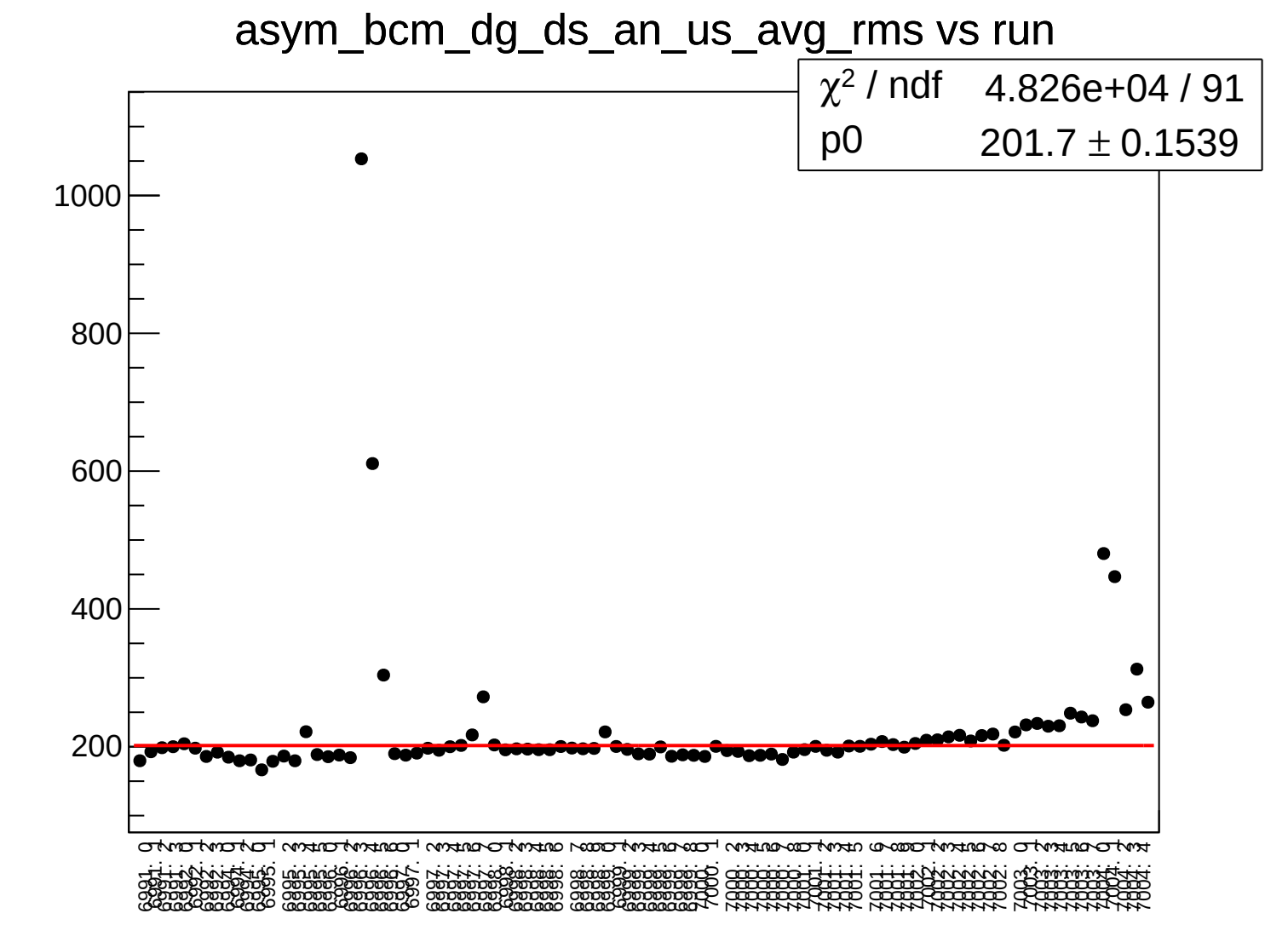

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 80.17 / 91
p0 1.61 ± 23.87
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 92
Mean 723.7
Std Dev 0
2
1
0
−1
−2

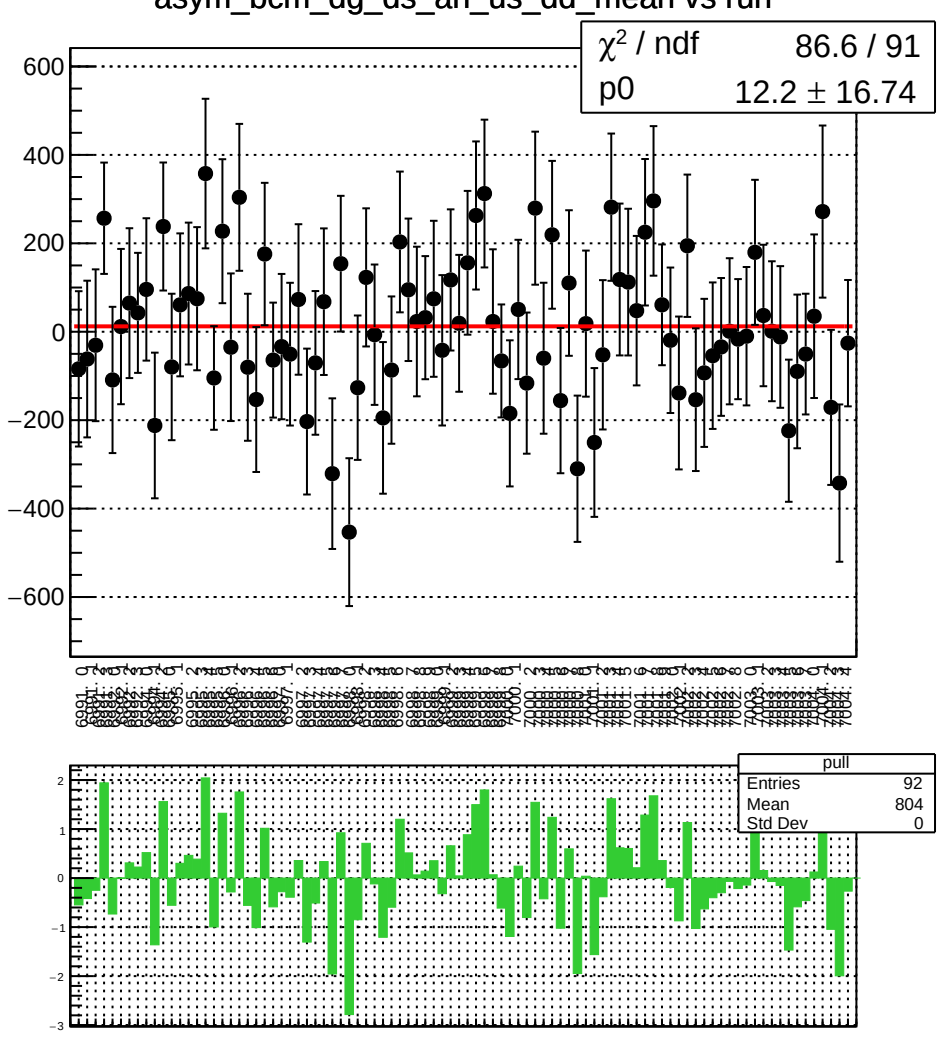

pull1D
Entries 92
Mean −0.005229
Std Dev 0.9335
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

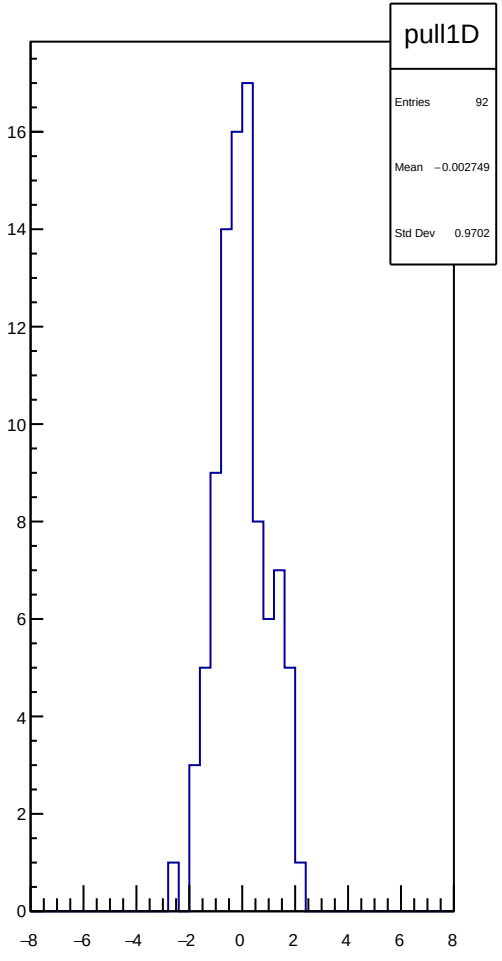

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 521.4 / 91
p0 22.42 ± 0.01688
24
23.5
23
22.5
22
21.5
21

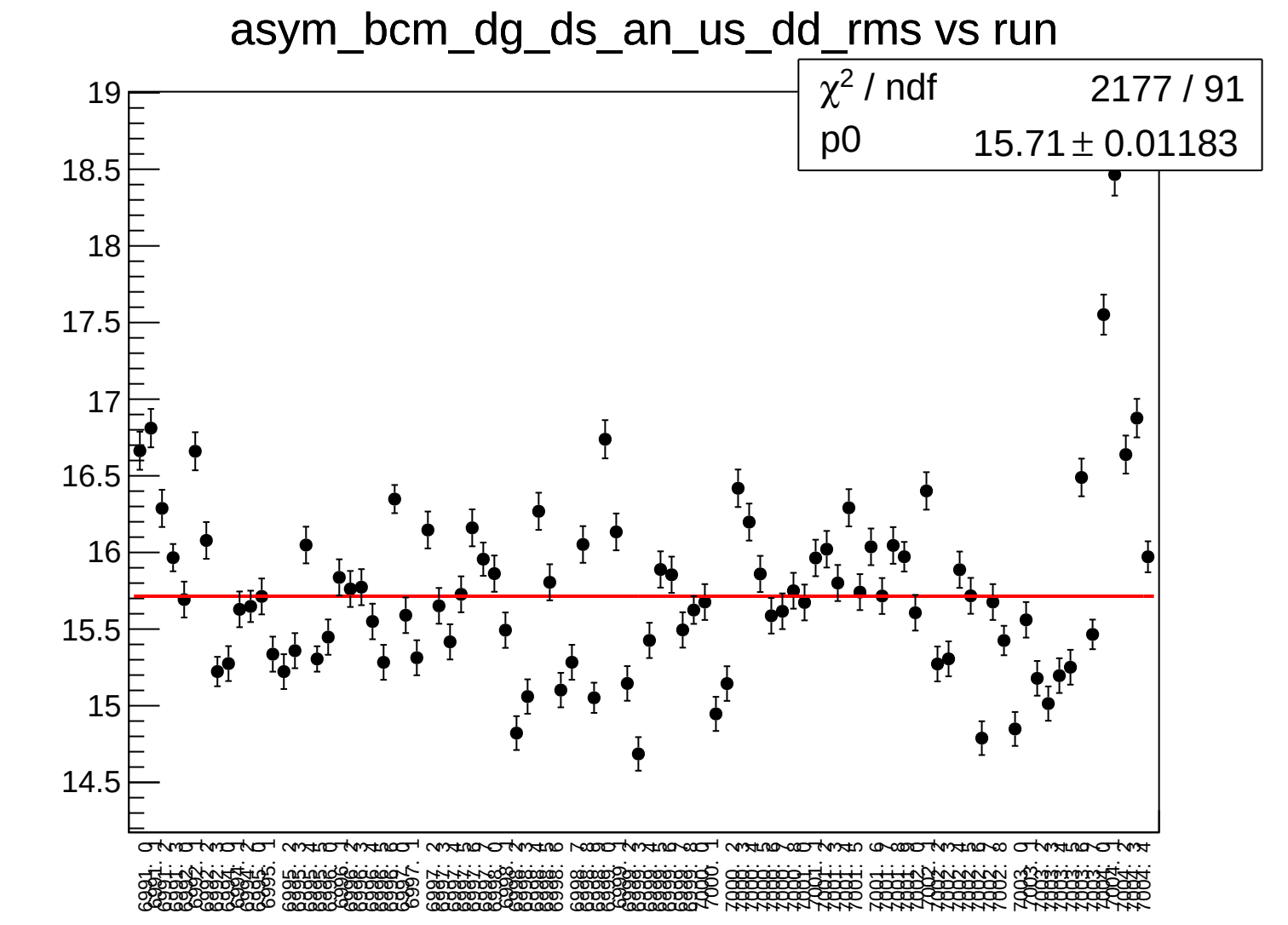

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 10.43 / 91
p0 −268.7 ± 217.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 83.92
Std Dev 123
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

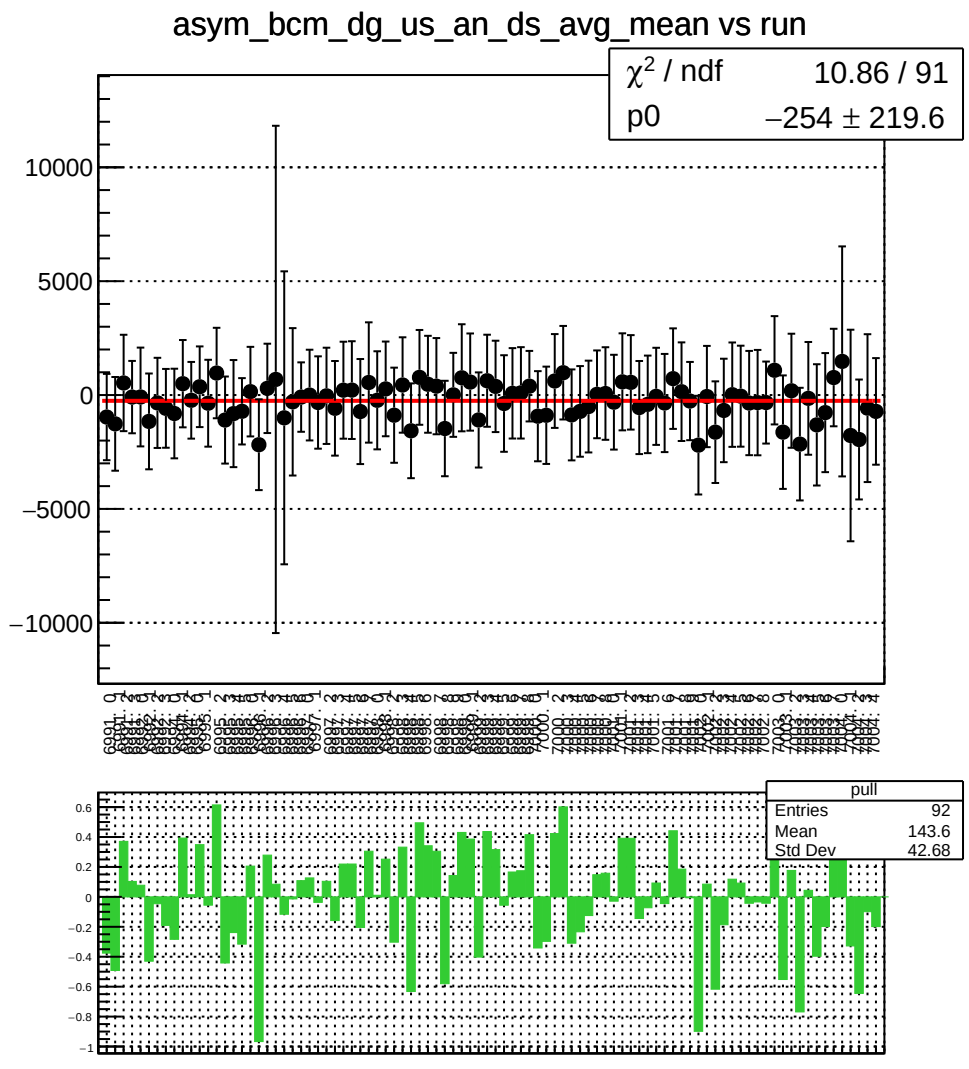

pull1D
Entries 92
Mean −0.002989
Std Dev 0.3368
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

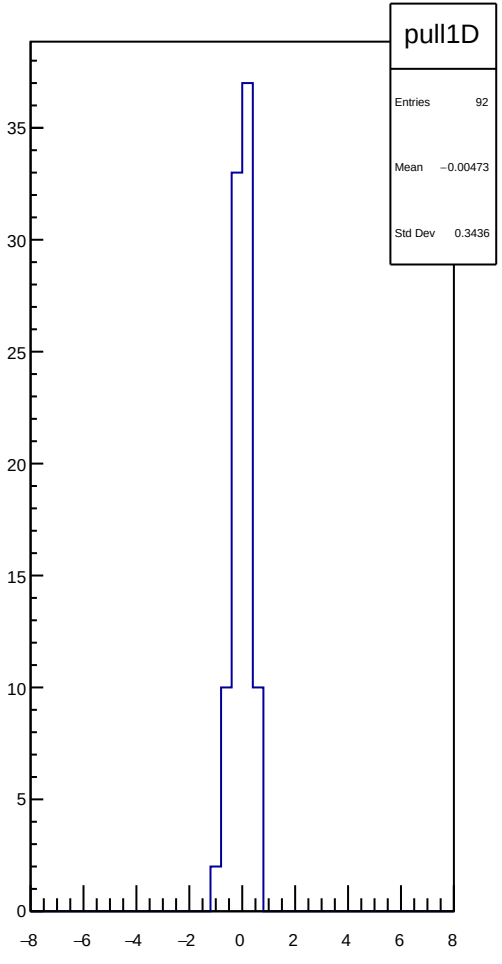

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 4.826e+04 / 91
p0 201.7 ± 0.1539
1000
800
600
400
200

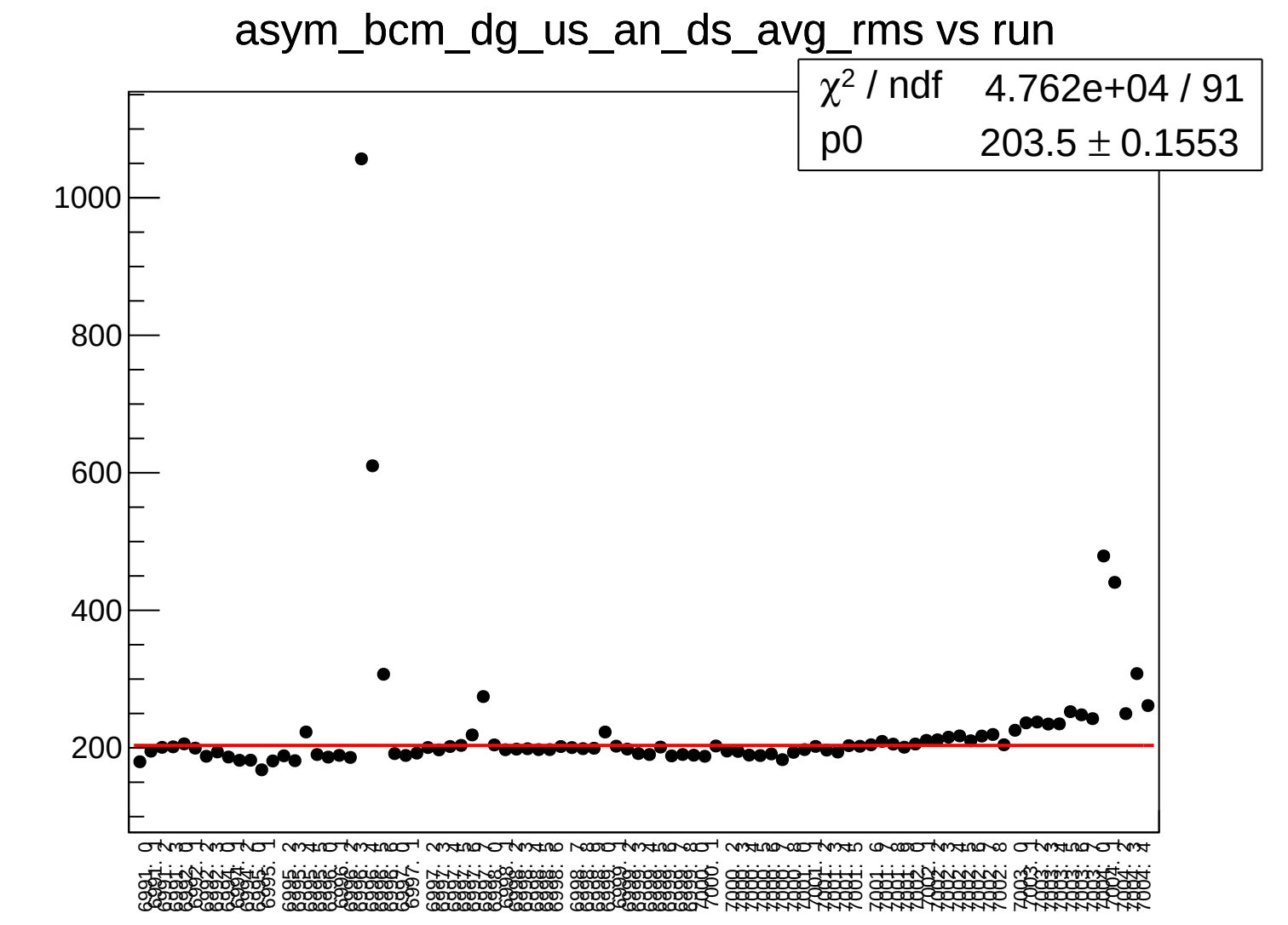

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 86.6 / 91
p0 12.2 ± 16.74
pull
Entries 92
Mean 804
Std Dev 0

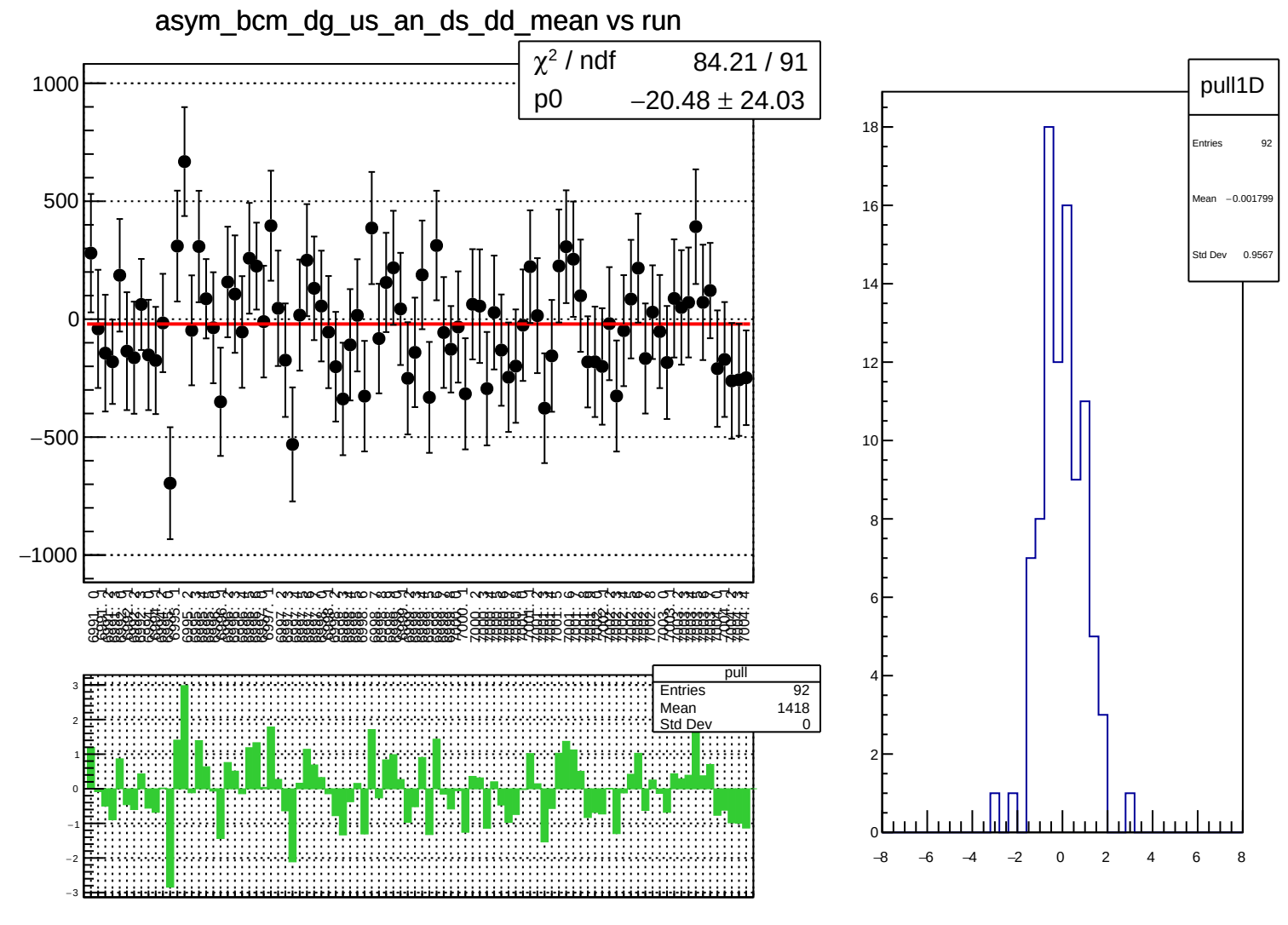

pull1D
Entries 92
Mean −0.002749
Std Dev 0.9702

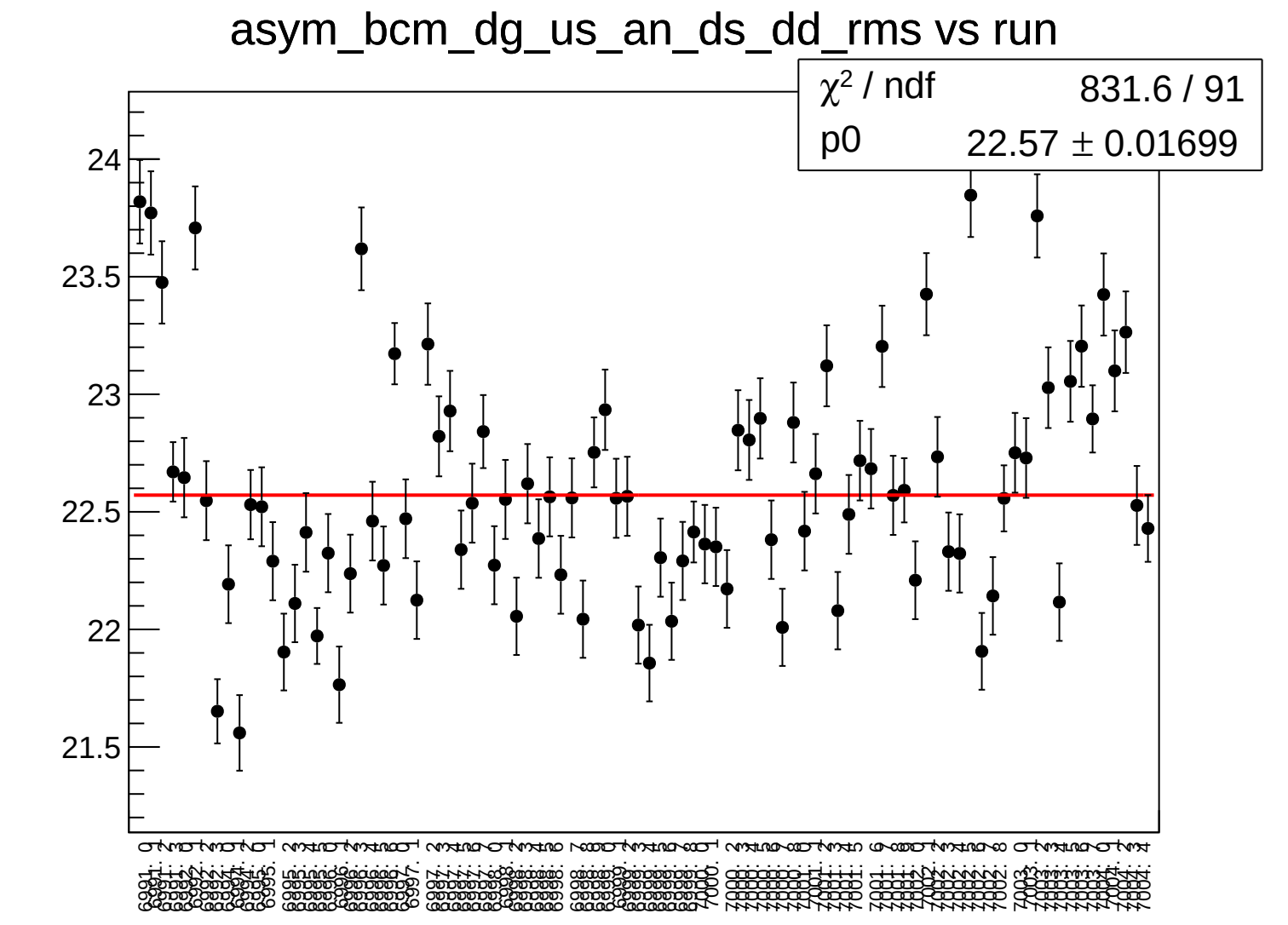

asym_bcm_dg_ds_an_us_dd_rms vs run
χ^2 / ndf 2177 / 91
p0 15.71 ± 0.01183
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

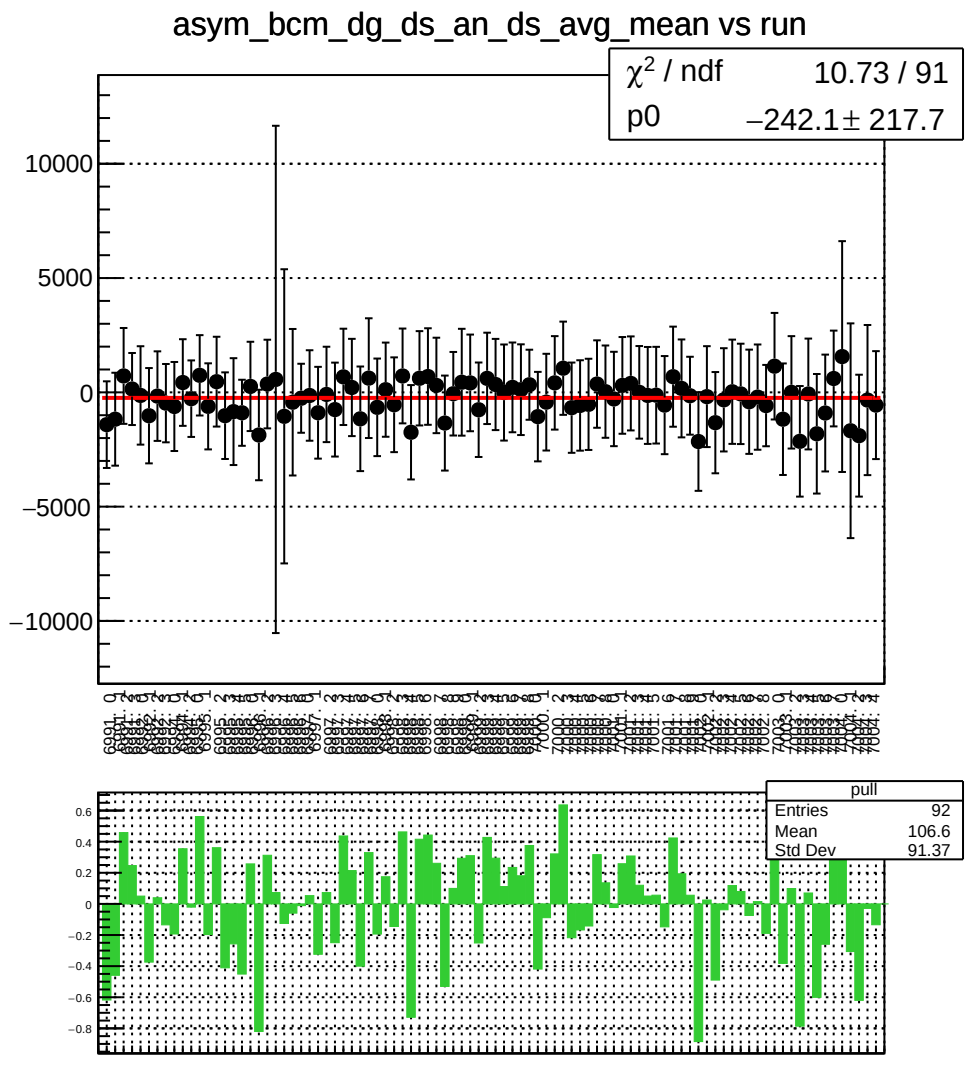

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 10.86 / 91
p0 −254 ± 219.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 143.6
Std Dev 42.68
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

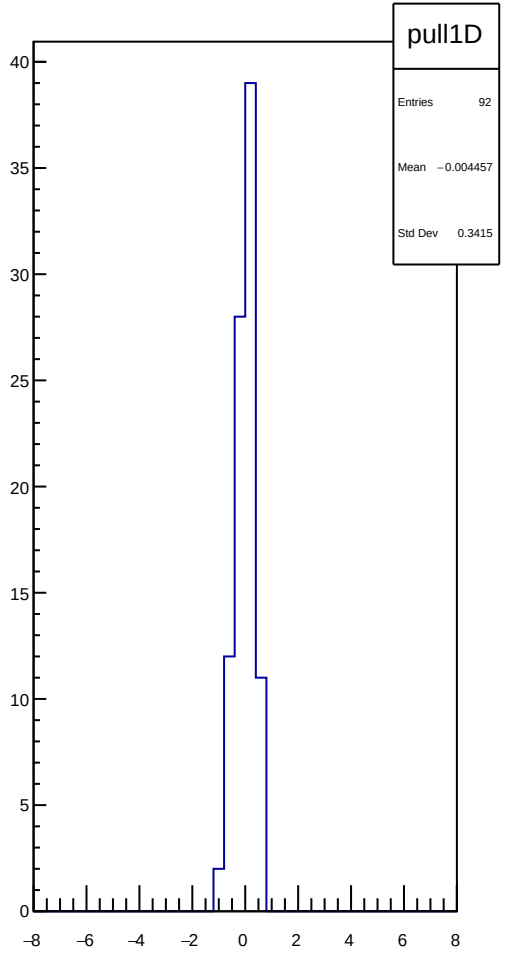

pull1D
Entries 92
Mean −0.00473
Std Dev 0.3436
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

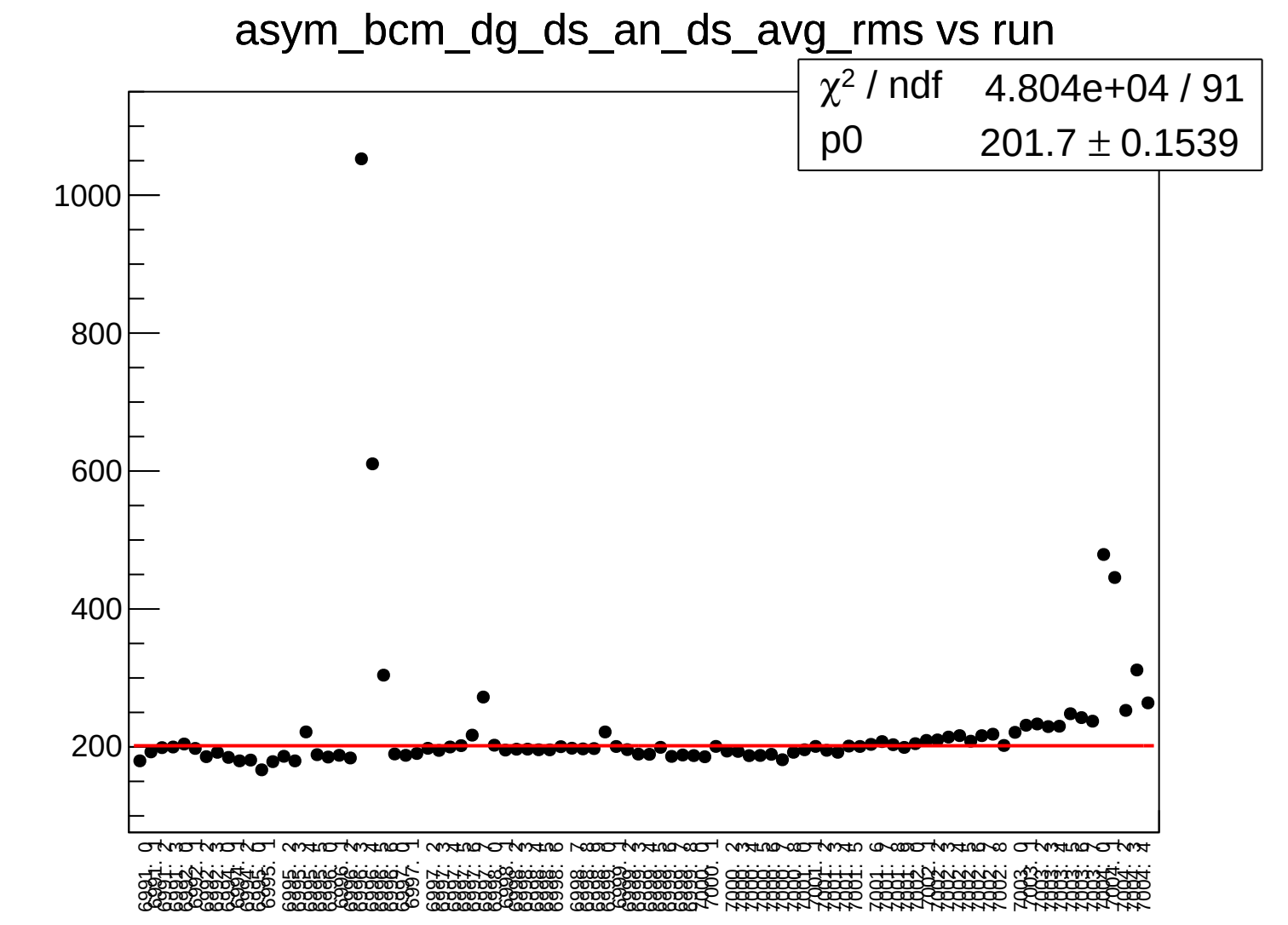

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 4.762e+04 / 91
p0 203.5 ± 0.1553
1000
800
600
400
200

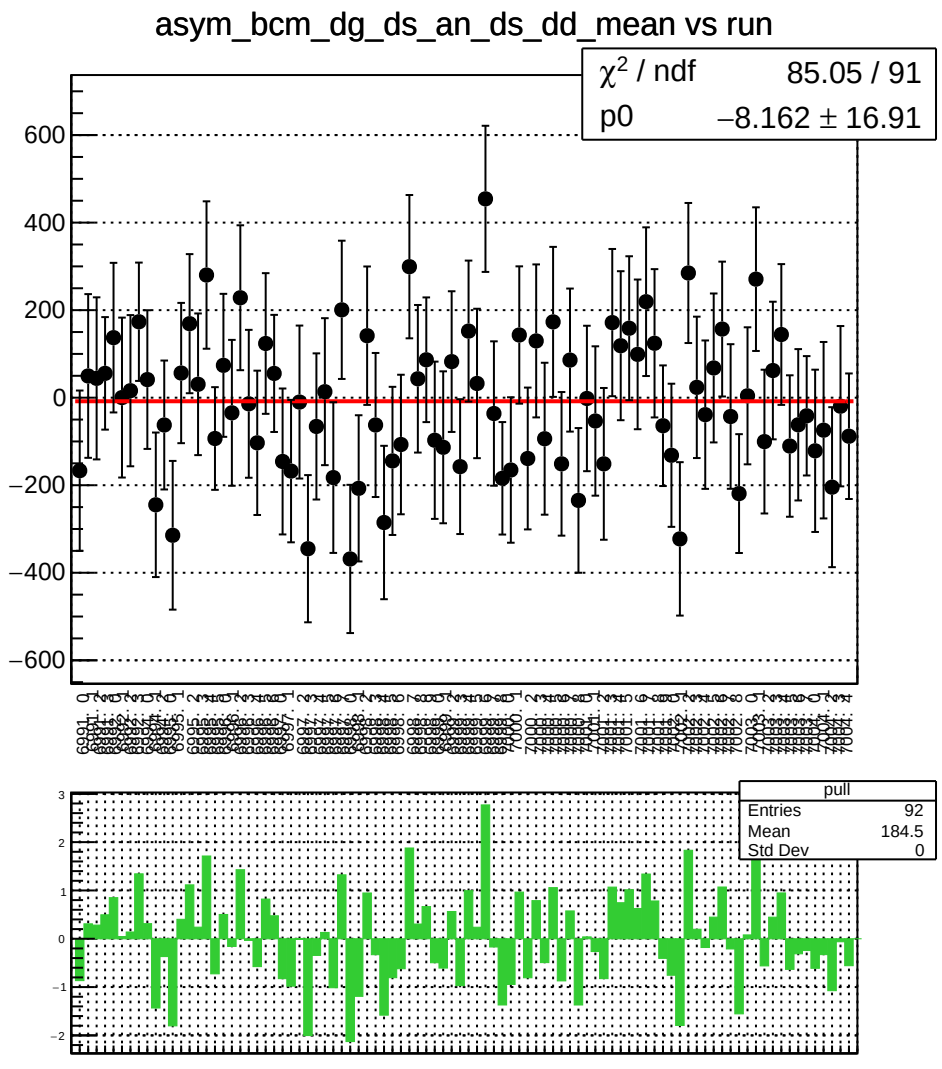

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 84.21 / 91
p0 −20.48 ± 24.03
1000
500
0
−500
−1000
pull
Entries 92
Mean 1418
Std Dev 0
pull1D
Entries 92
Mean −0.001799
Std Dev 0.9567

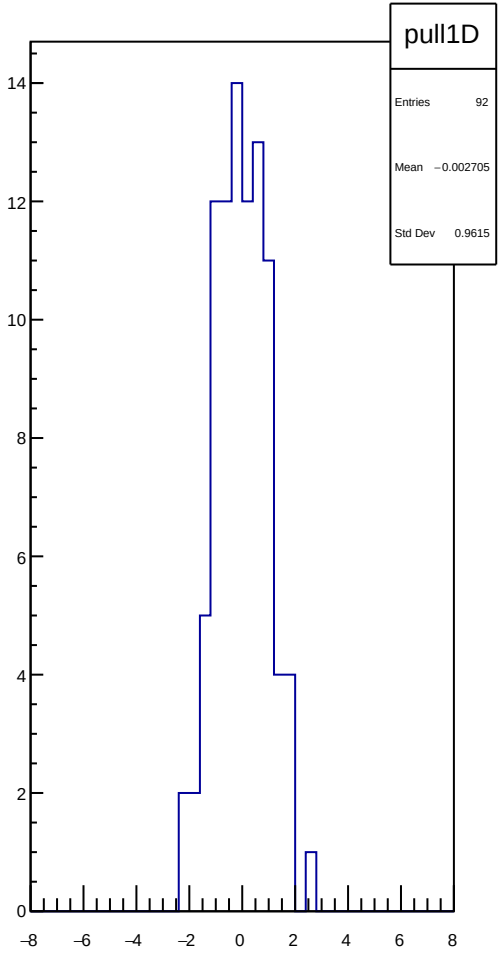

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 831.6 / 91
p0 22.57 ± 0.01699
24
23.5
23
22.5
22
21.5

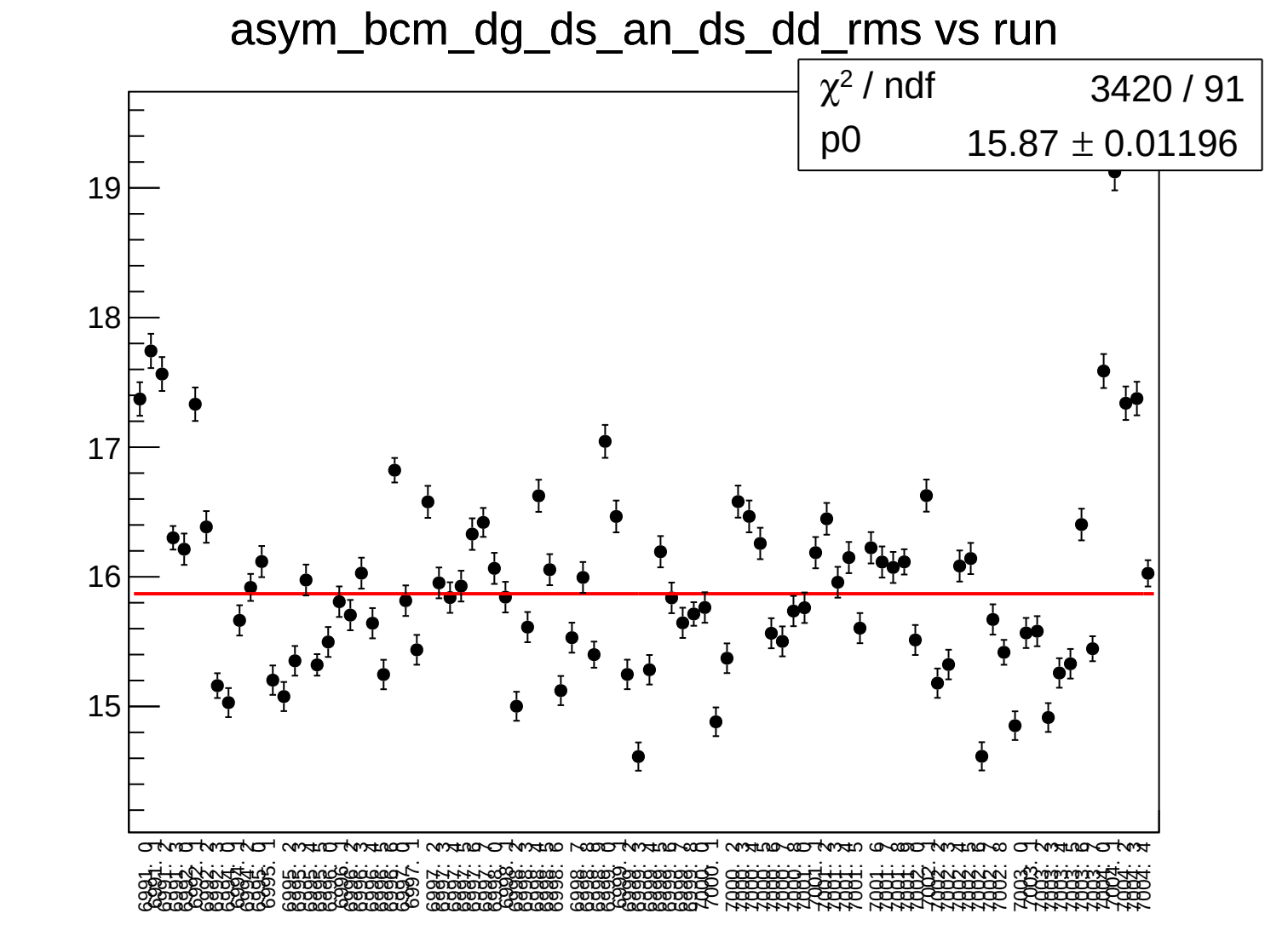

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 10.73 / 91
p0 −242.1± 217.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 106.6
Std Dev 91.37
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

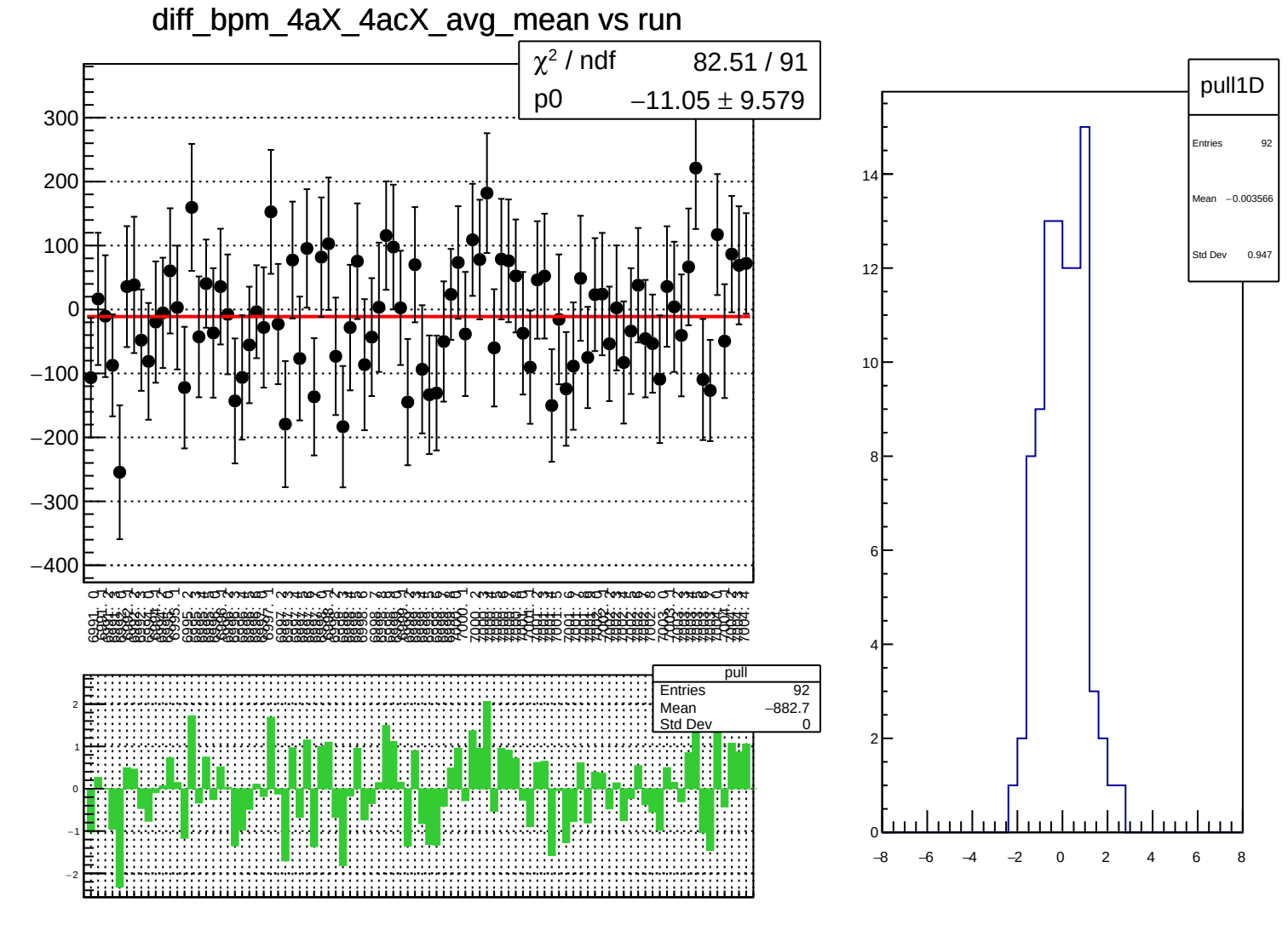

pull1D
Entries 92
Mean −0.004457
Std Dev 0.3415
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

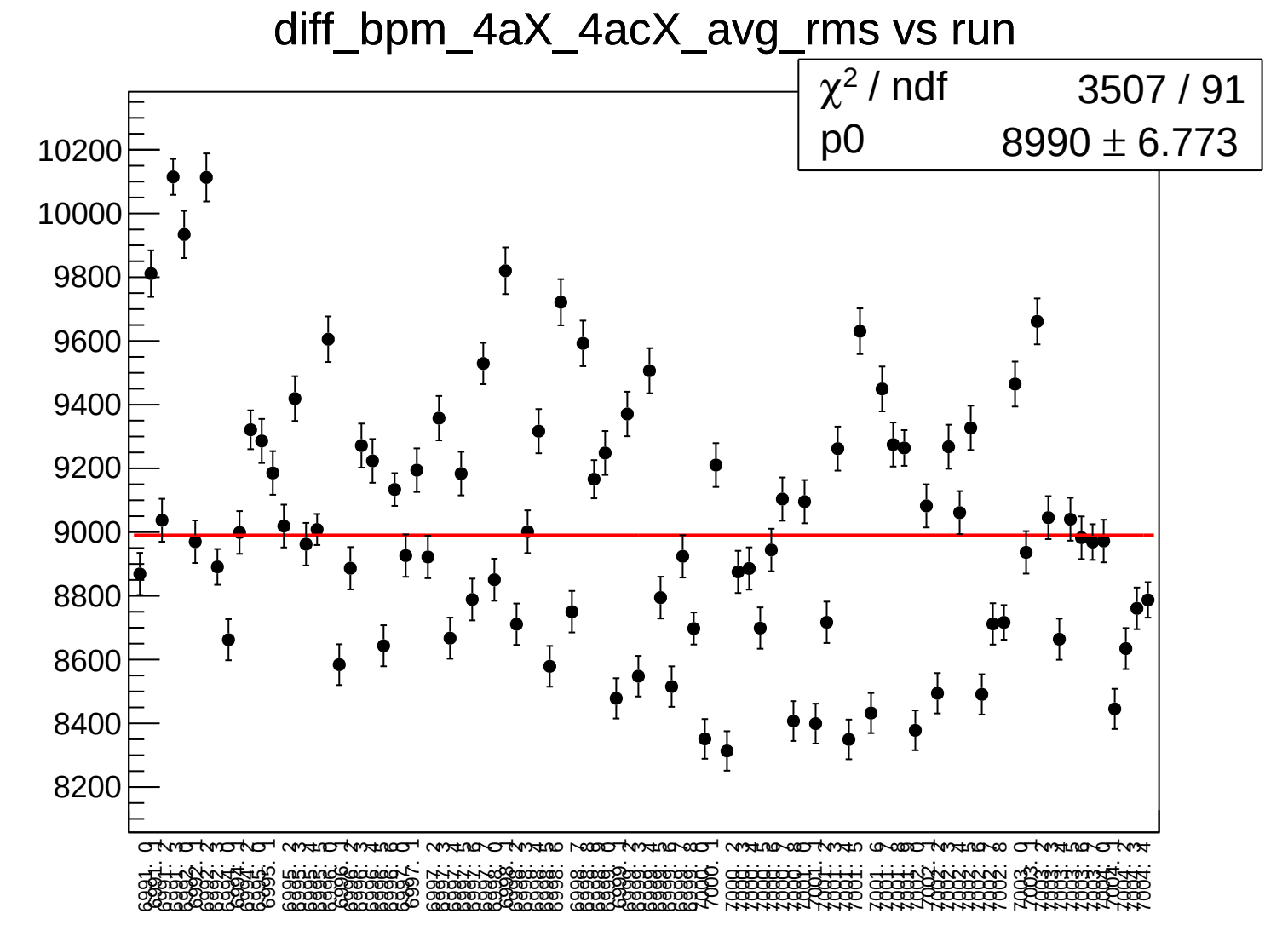

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 4.804e+04 / 91
p0 201.7 ± 0.1539
1000
800
600
400
200

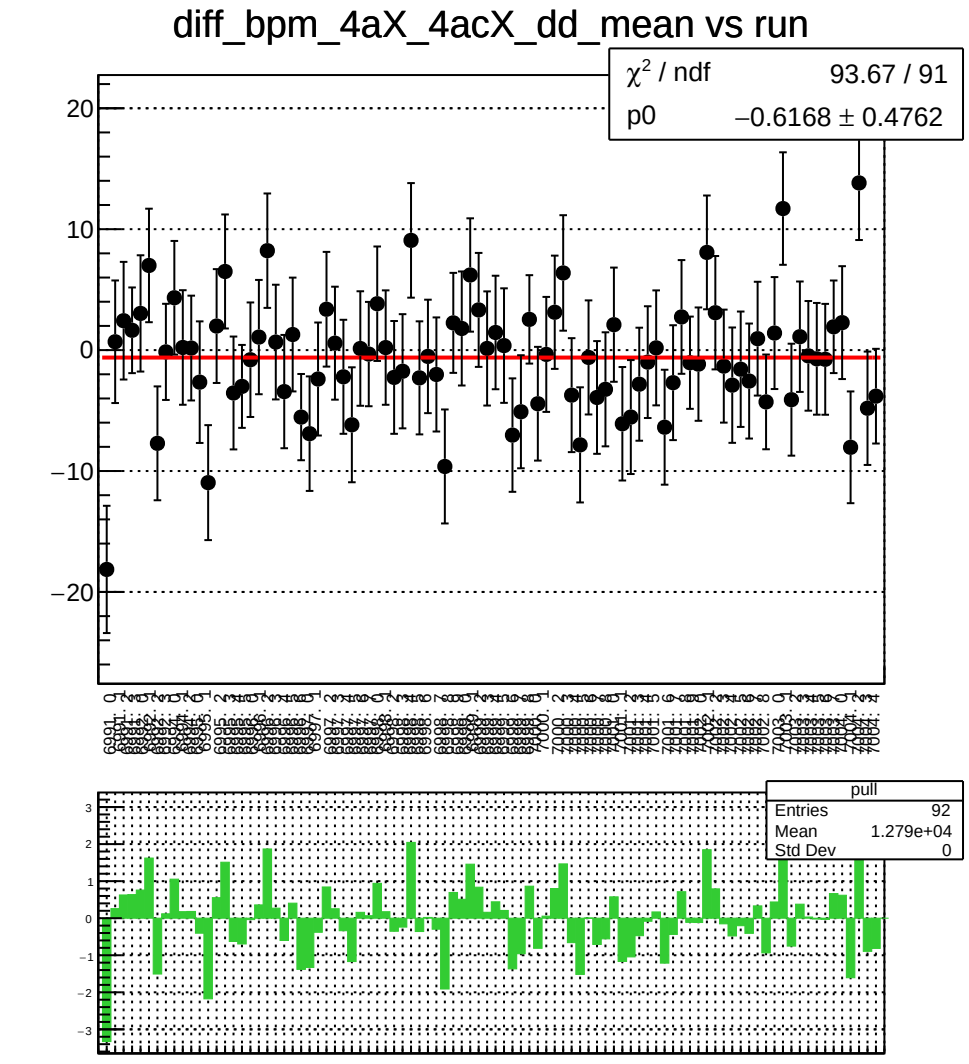

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 85.05 / 91
p0 −8.162 ± 16.91
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean 184.5
Std Dev 0
3
2
1
0
−1
−2

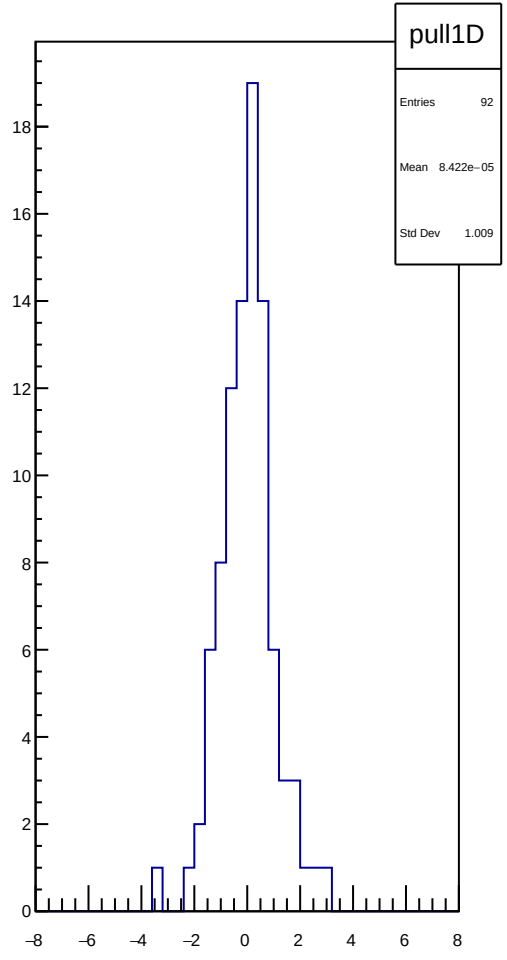

pull1D
Entries 92
Mean −0.002705
Std Dev 0.9615
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

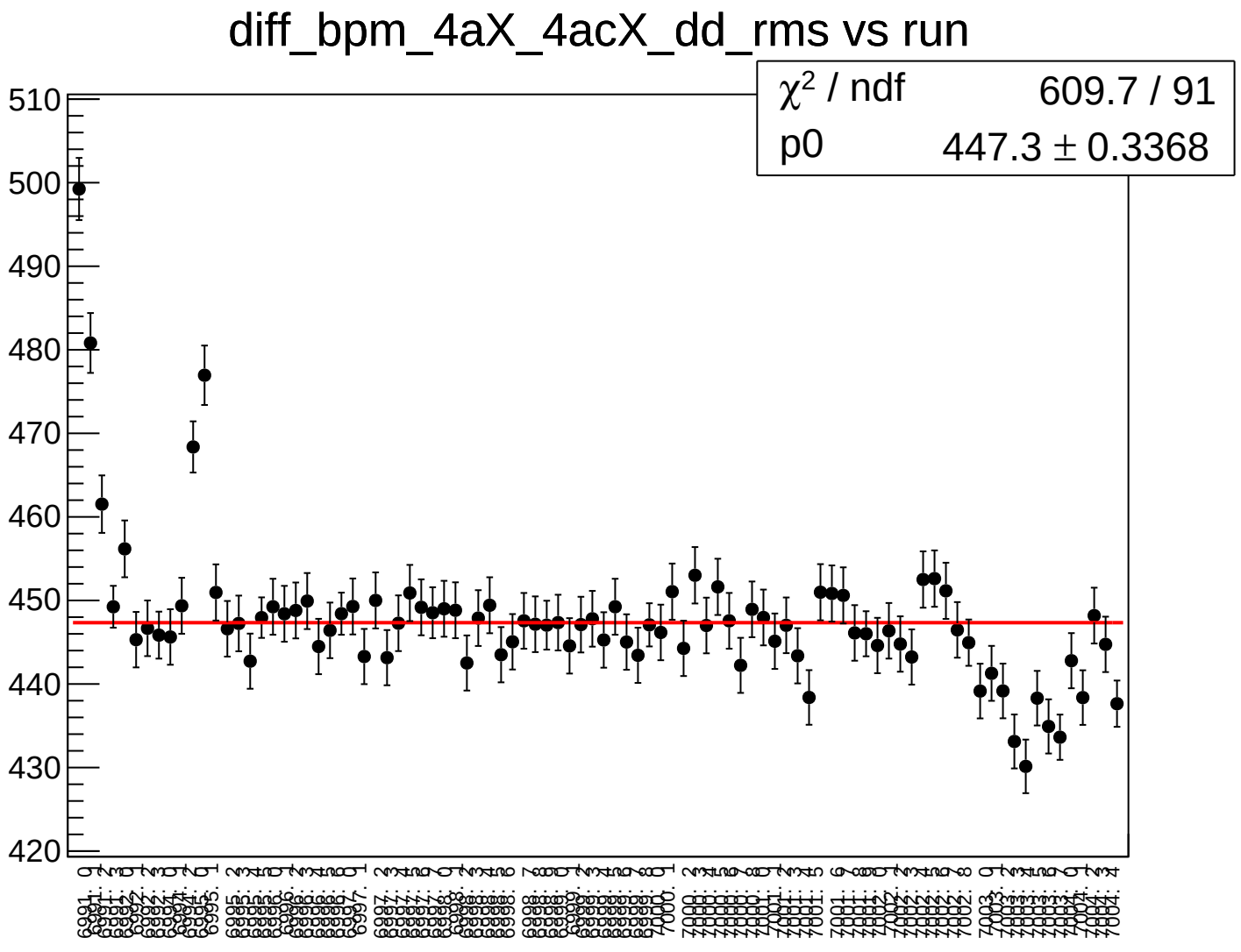

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 3420 / 91
p0 15.87 ± 0.01196
19
18
17
16
15

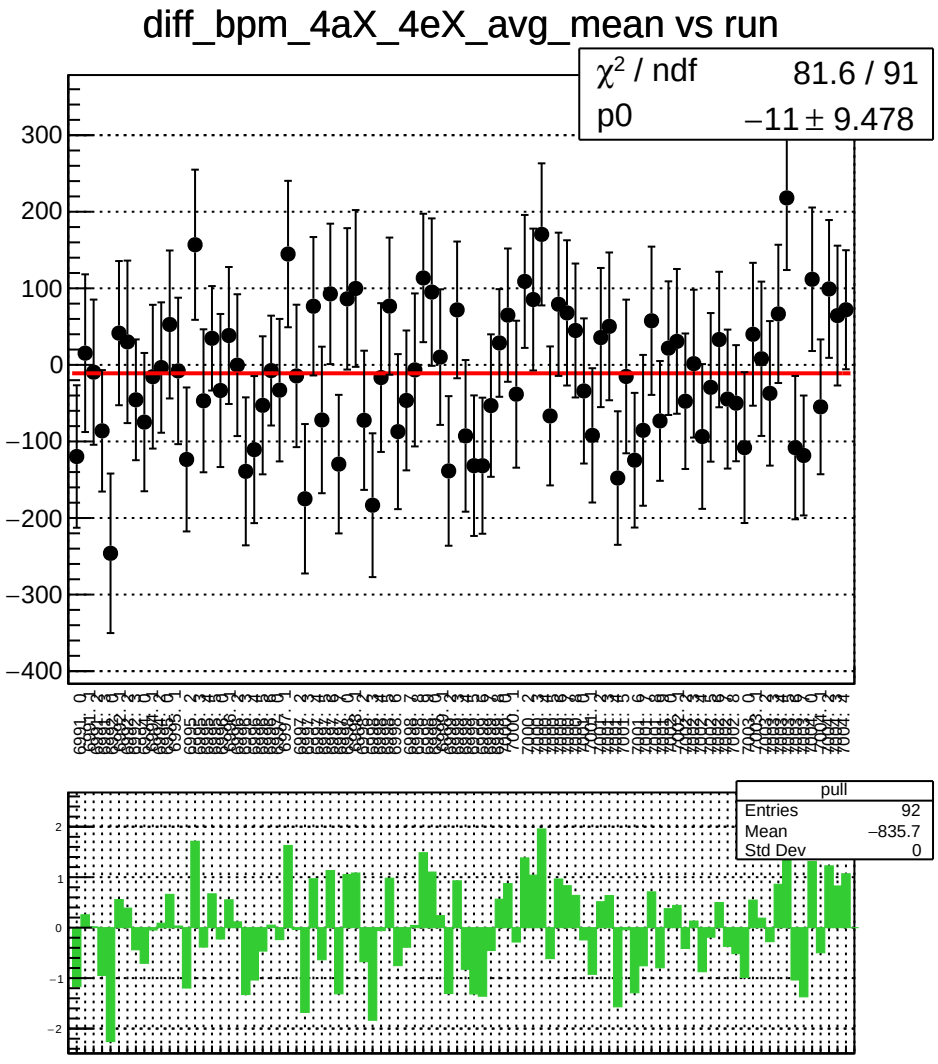

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 82.51 / 91
p0 −11.05 ± 9.579
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −882.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003566
Std Dev 0.947
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

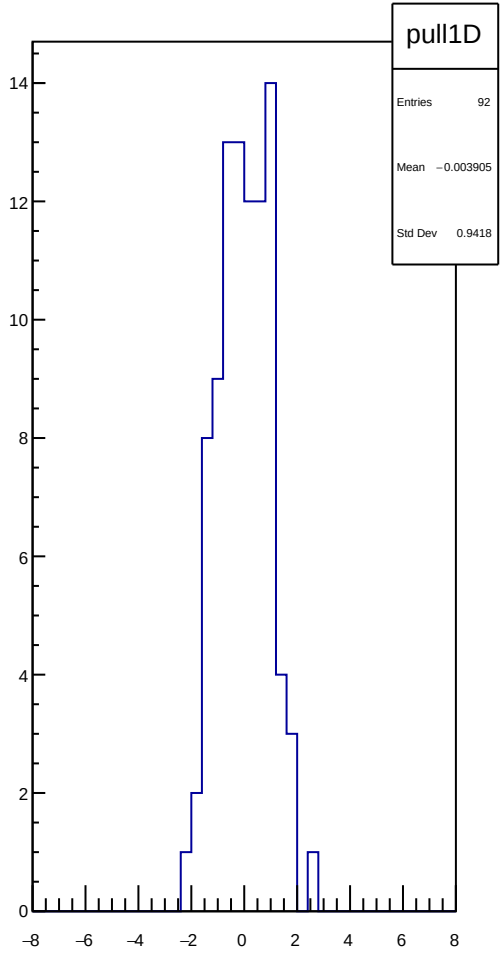

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 3507 / 91
p0 8990 ± 6.773
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400
8200

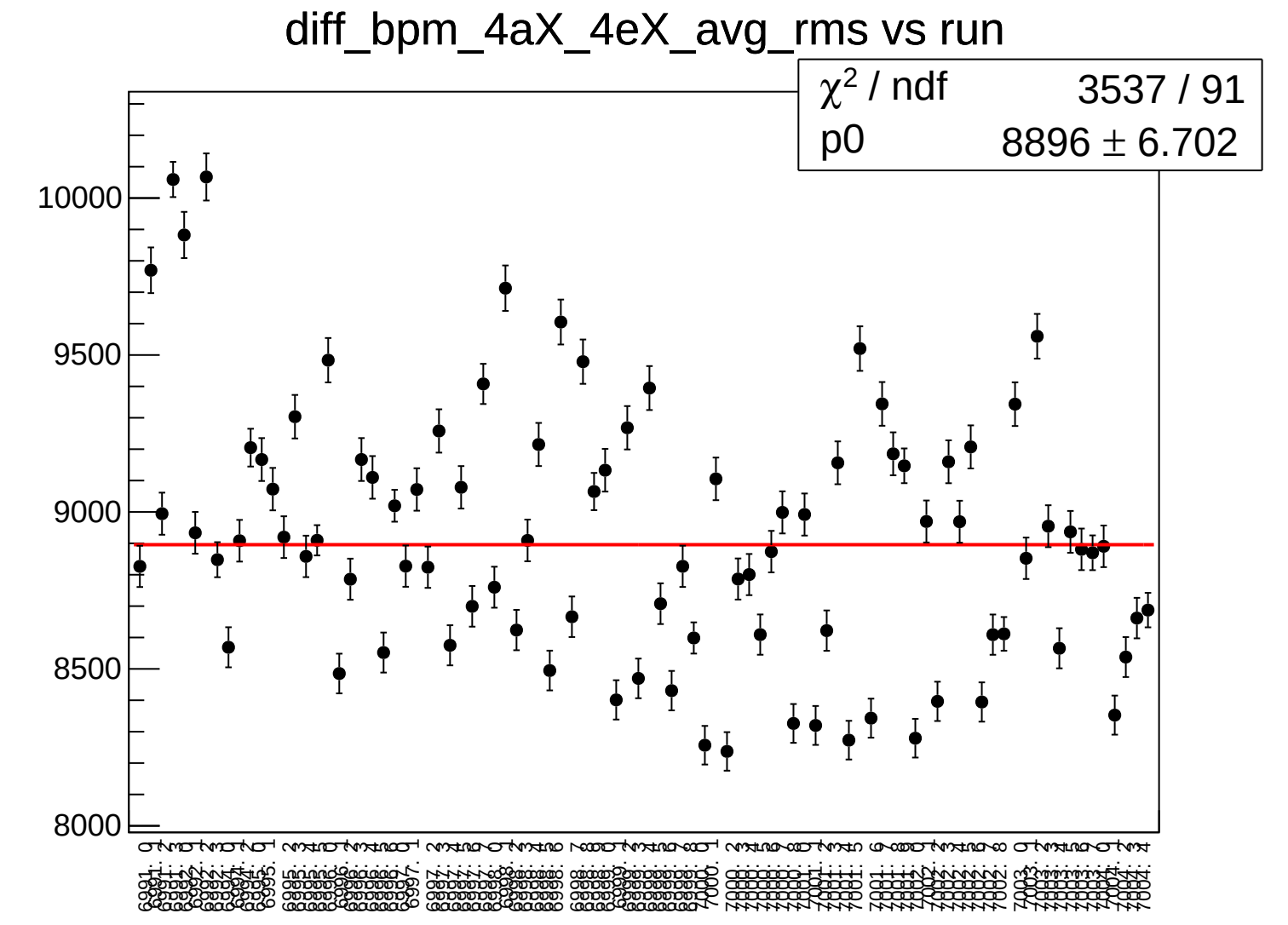

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 93.67 / 91
p0 −0.6168 ± 0.4762
20
10
0
−10
−20
pull
Entries 92
Mean 1.279e+04
Std Dev 0
3
2
1
0
−1
−2
−3

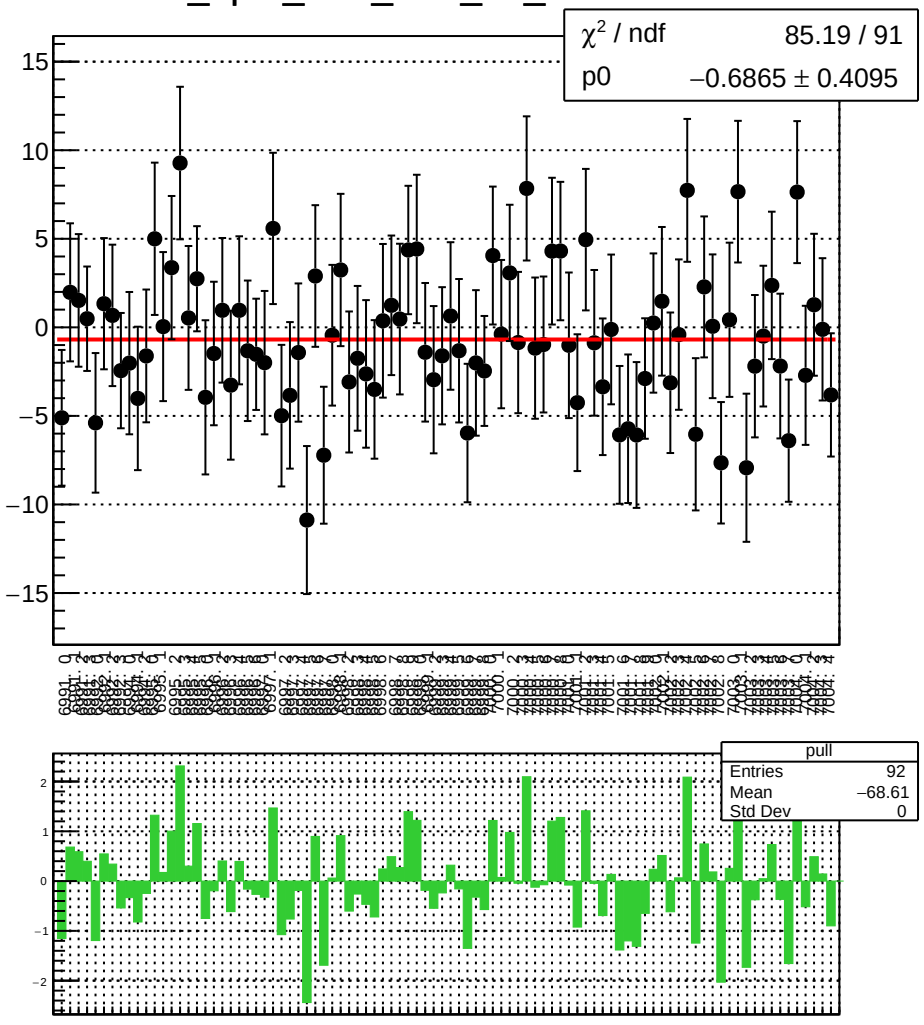

pull1D
Entries 92
Mean 8.422e−05
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

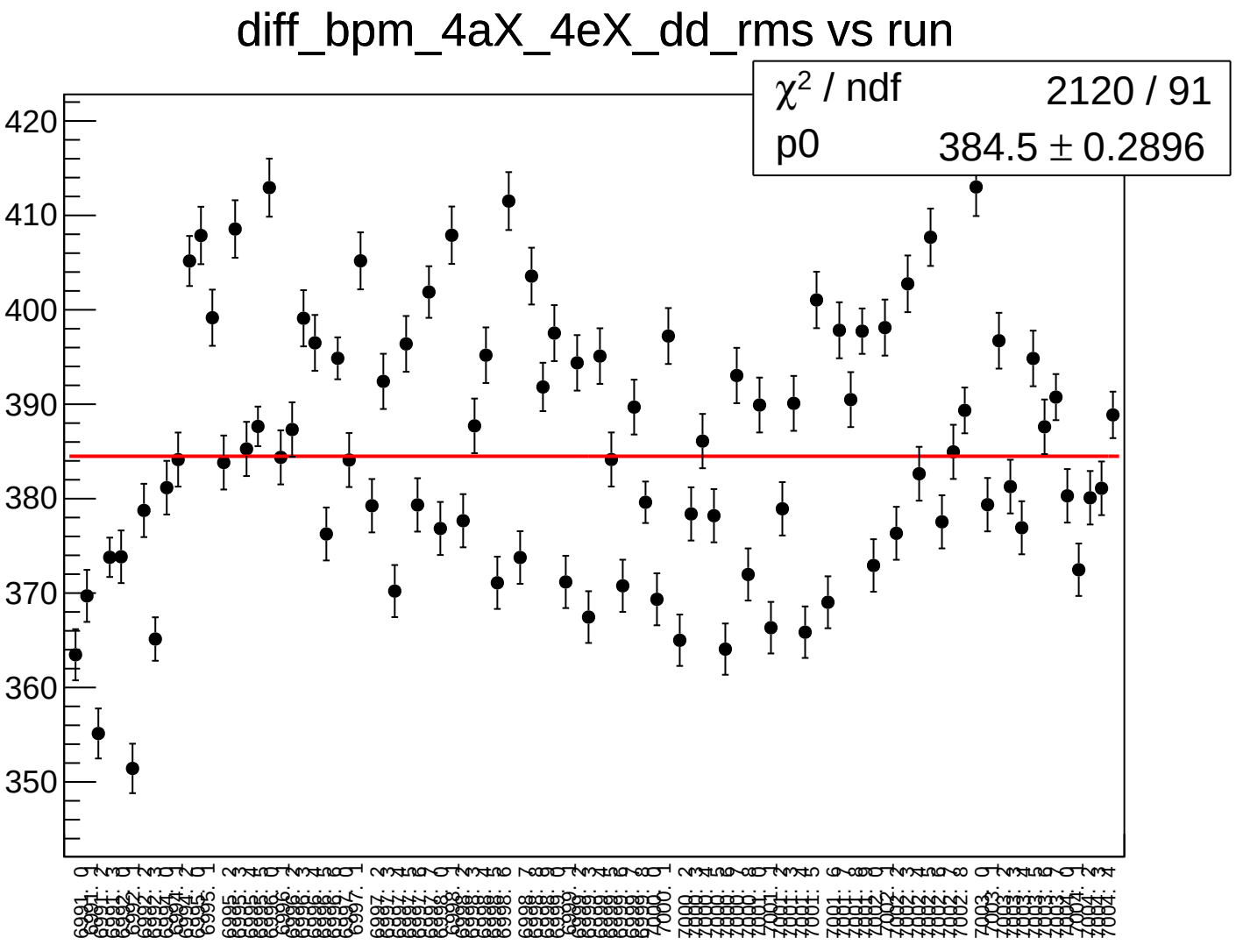

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 609.7 / 91
p0 447.3 ± 0.3368
510
500
490
480
470
460
450
440
430
420

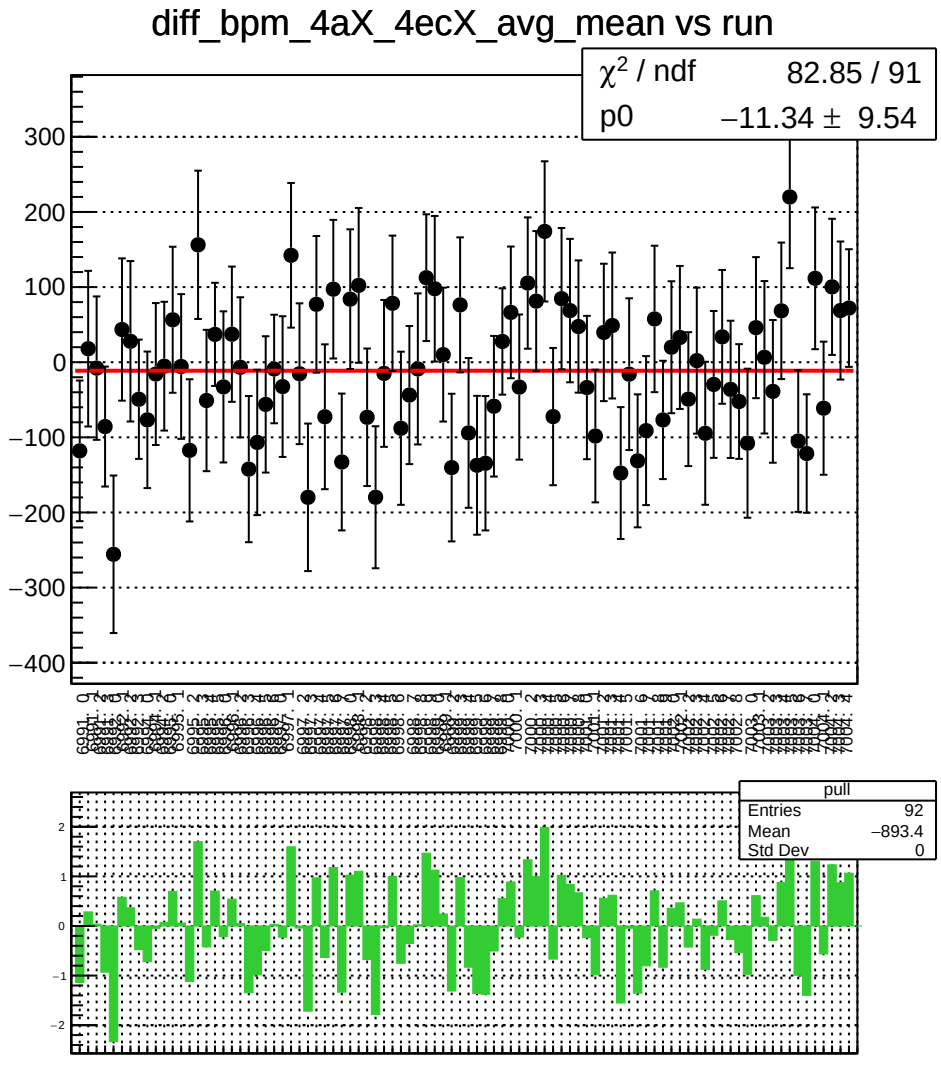

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 81.6 / 91
p0 −11 ± 9.478
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −835.7
Std Dev 0
2
1
0
−1
−2

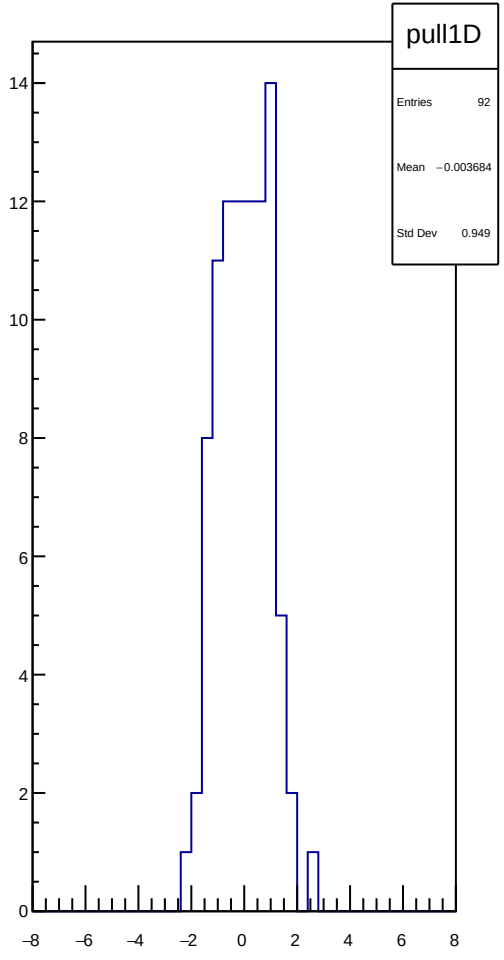

pull1D
Entries 92
Mean −0.003905
Std Dev 0.9418
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

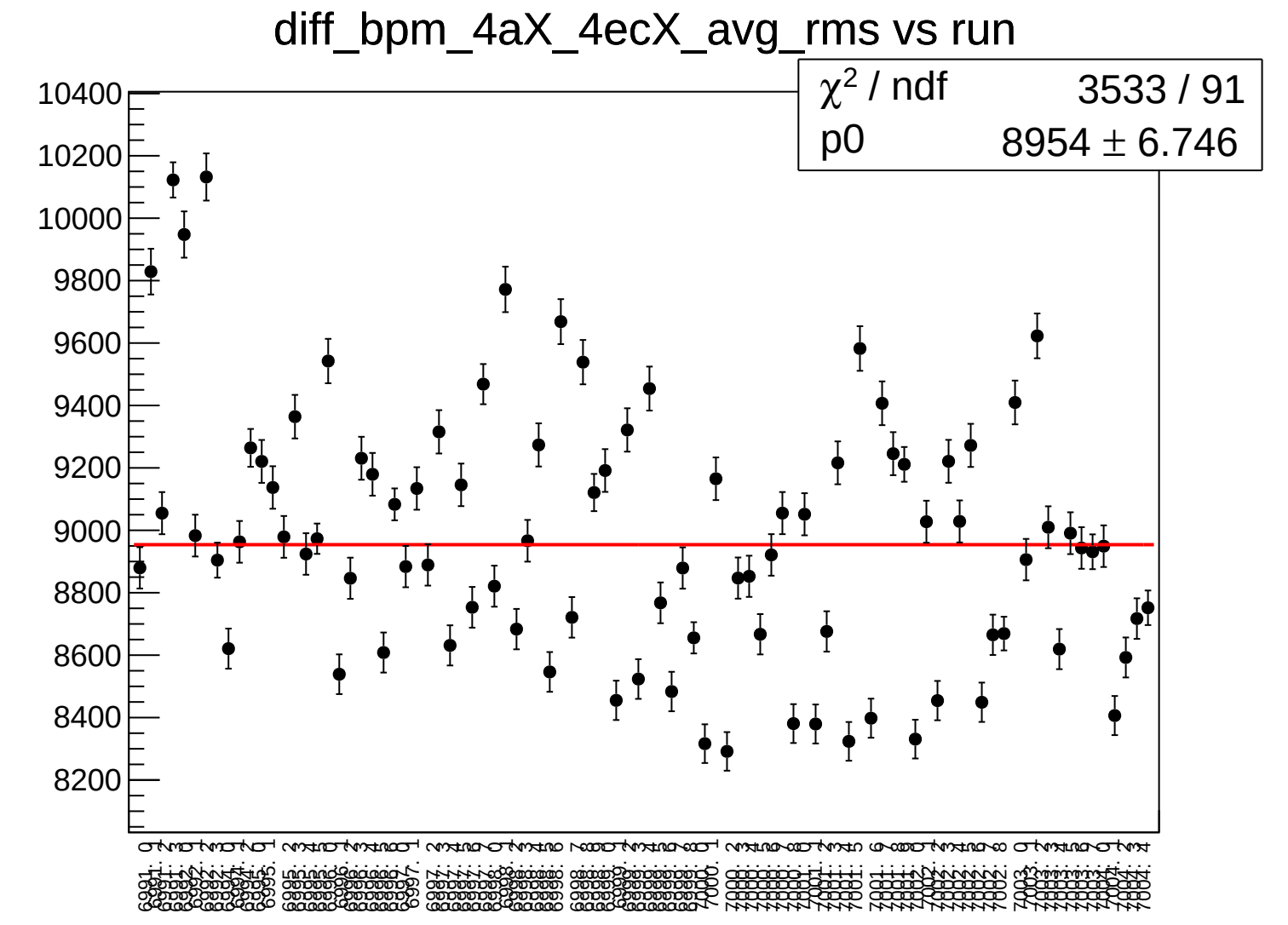

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 3537 / 91
p0 8896 ± 6.702
10000
9500
9000
8500
8000

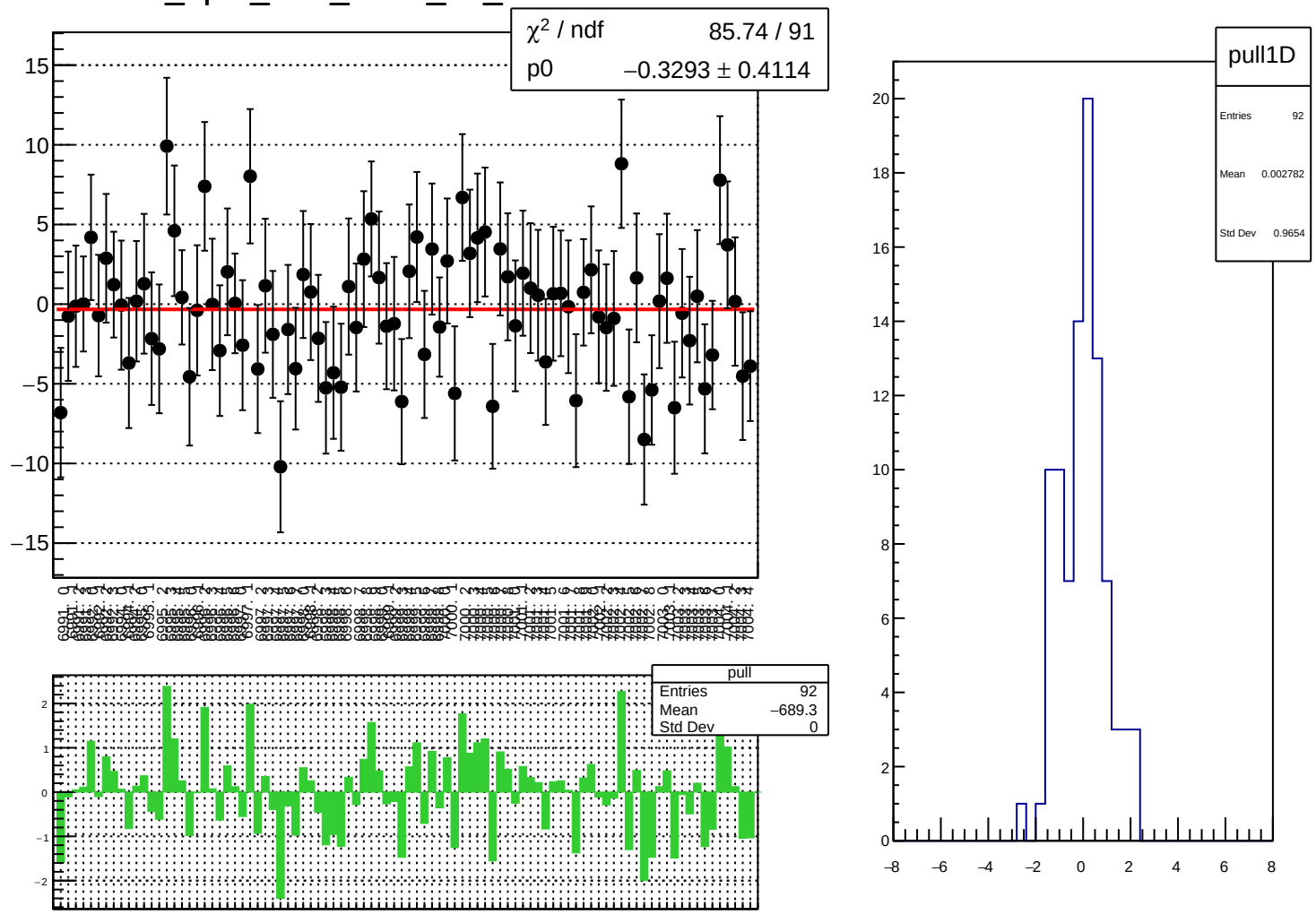

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 85.19 / 91
p0 −0.6865 ± 0.4095
pull
Entries 92
Mean −68.61
Std Dev 0
pull1D
Entries 92
Mean 0.00899
Std Dev 0.9623

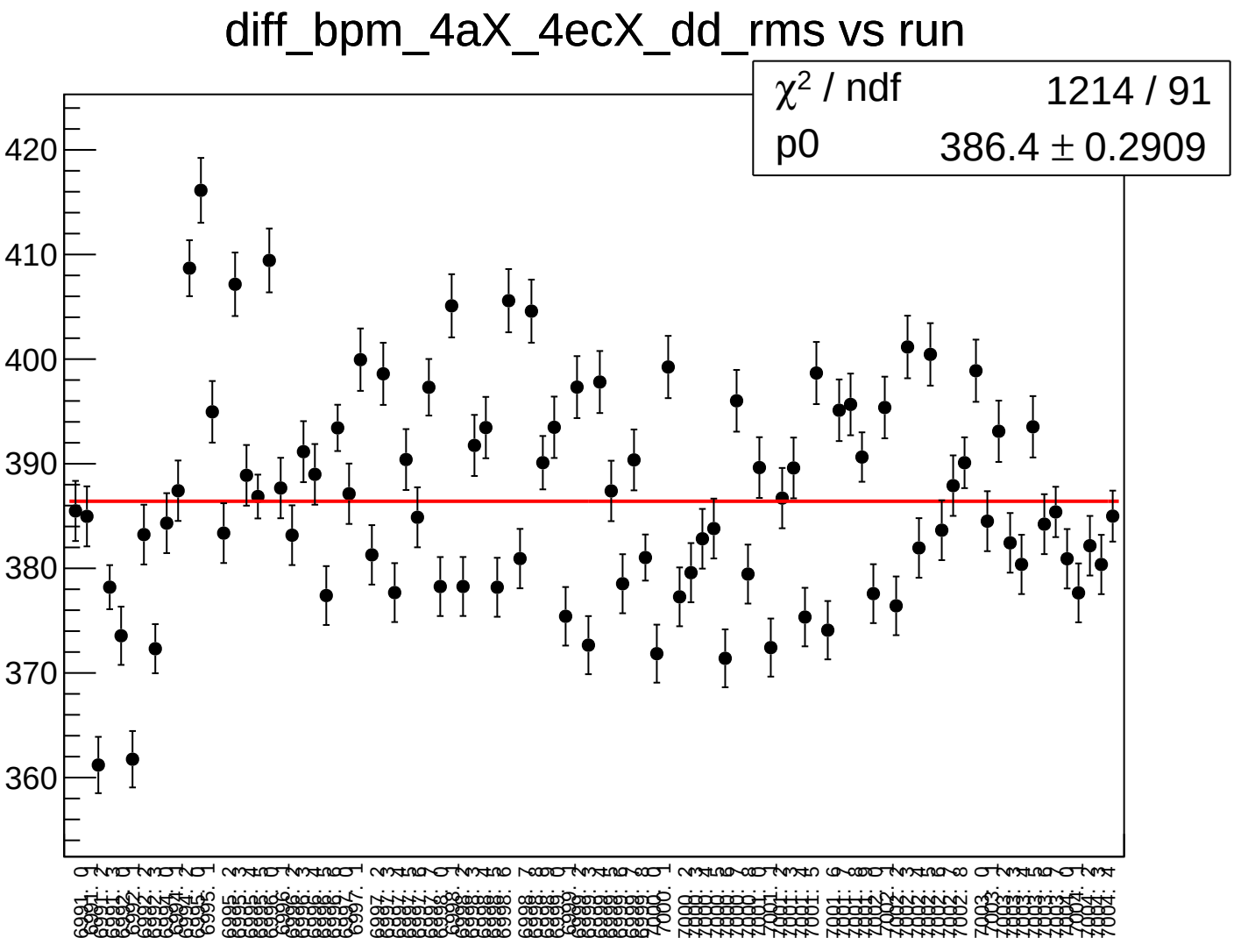

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2120 / 91
p0 384.5 ± 0.2896
420
410
400
390
380
370
360
350

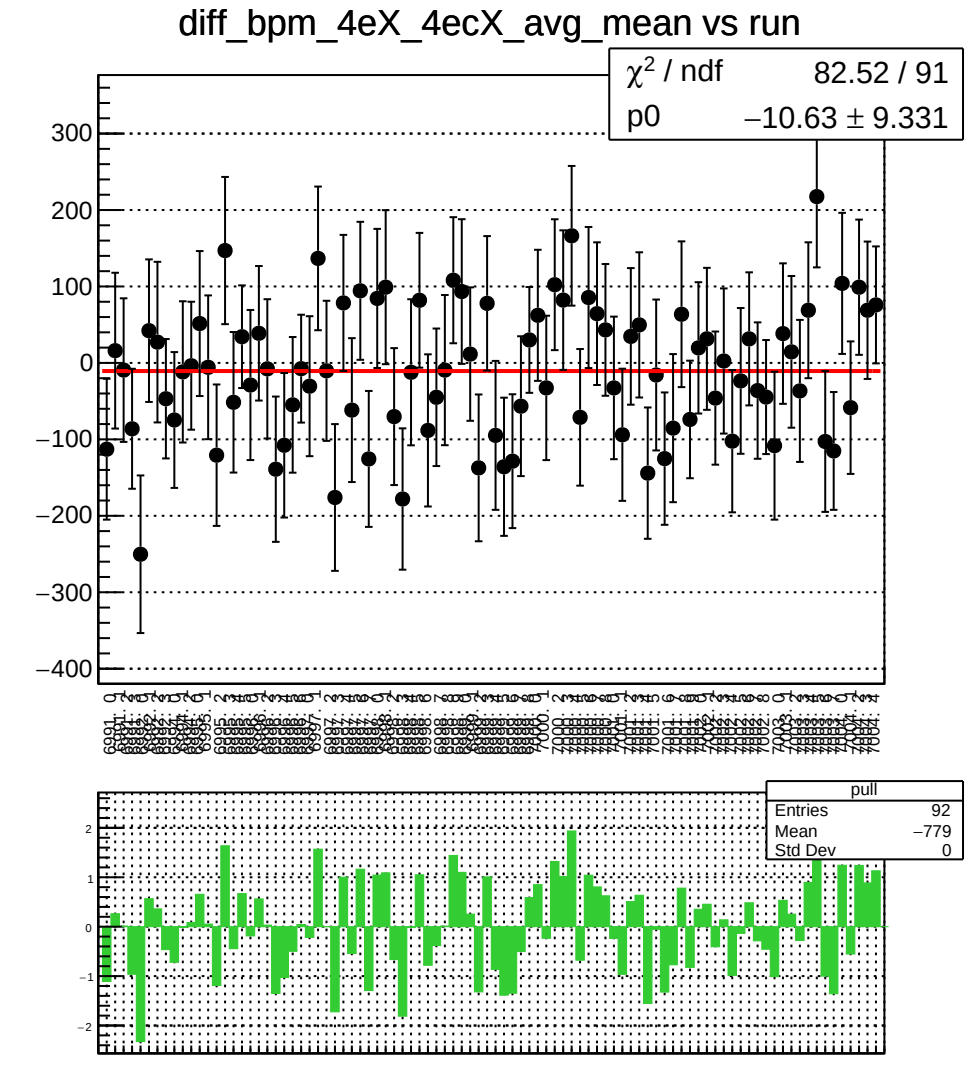

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 82.85 / 91
p0 −11.34 ± 9.54
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −893.4
Std Dev 0
2
1
0
−1
−2

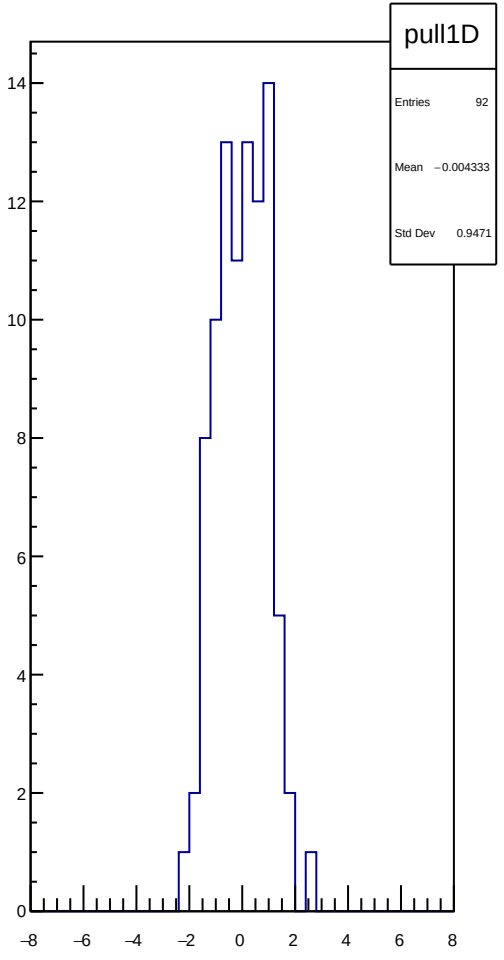

pull1D
Entries 92
Mean −0.003684
Std Dev 0.949
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

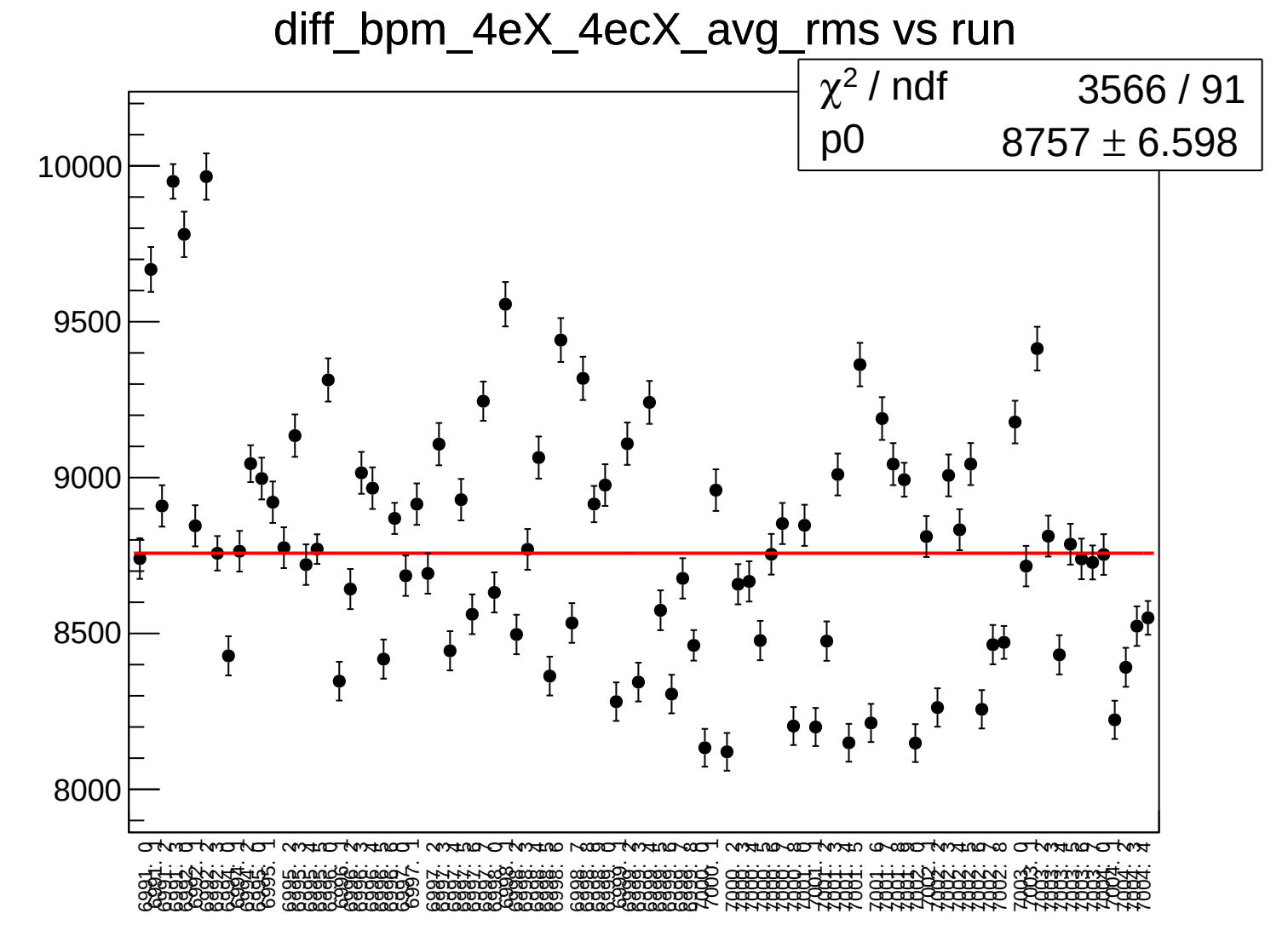

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 3533 / 91
p0 8954 ± 6.746
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400
8200

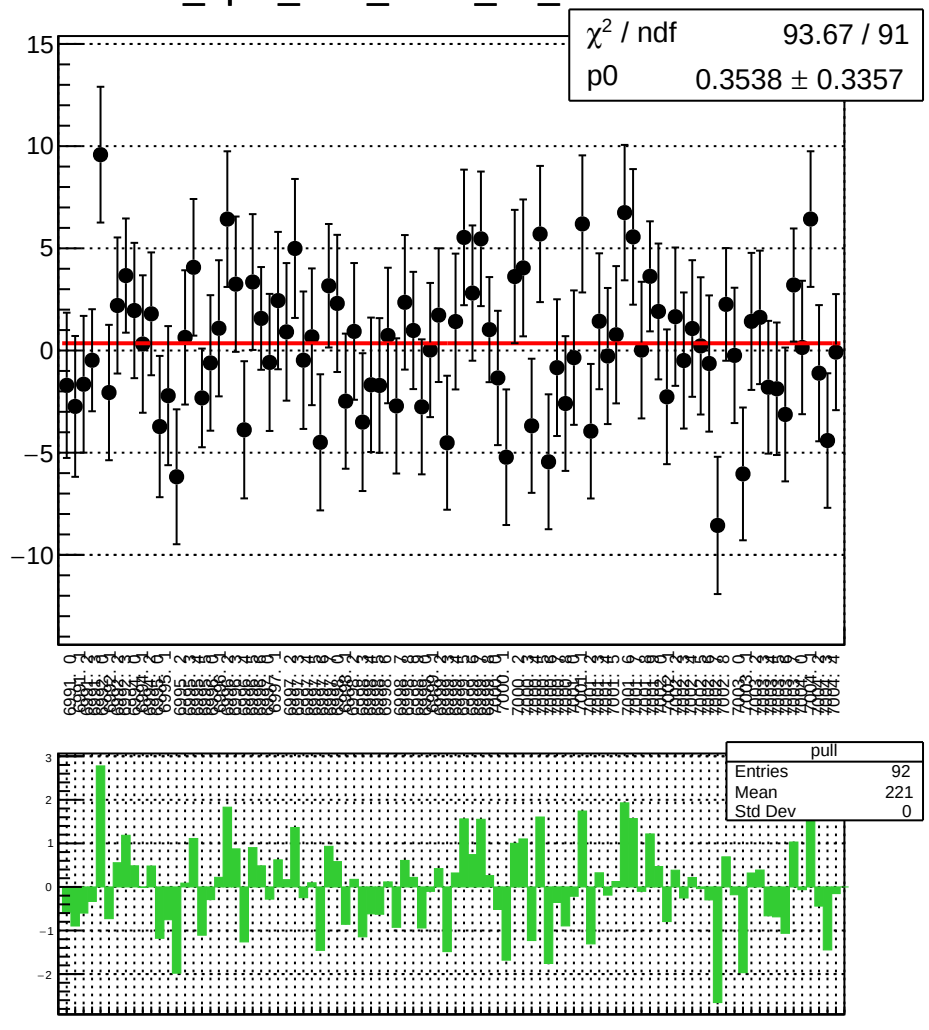

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 85.74 / 91
p0 −0.3293 ± 0.4114
pull
Entries 92
Mean −689.3
Std Dev 0
pull1D
Entries 92
Mean 0.002782
Std Dev 0.9654

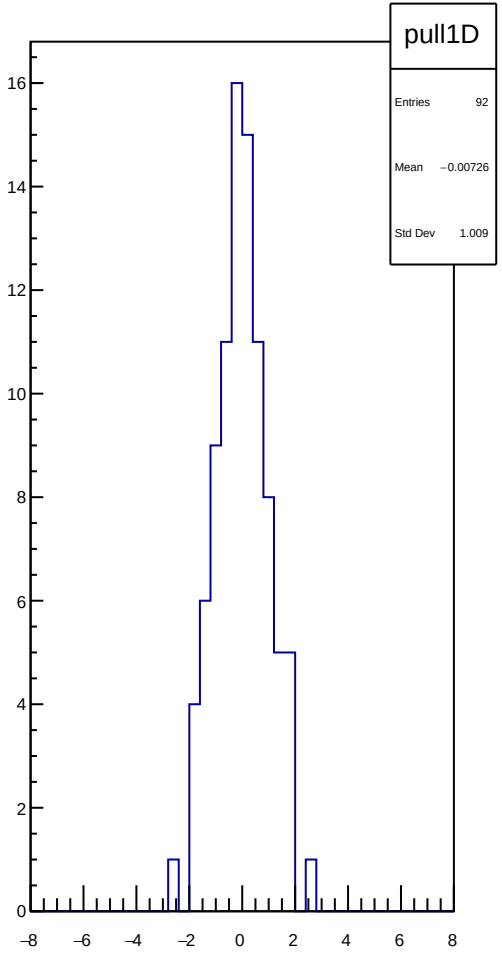

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1214 / 91
p0 386.4 ± 0.2909
420
410
400
390
380
370
360

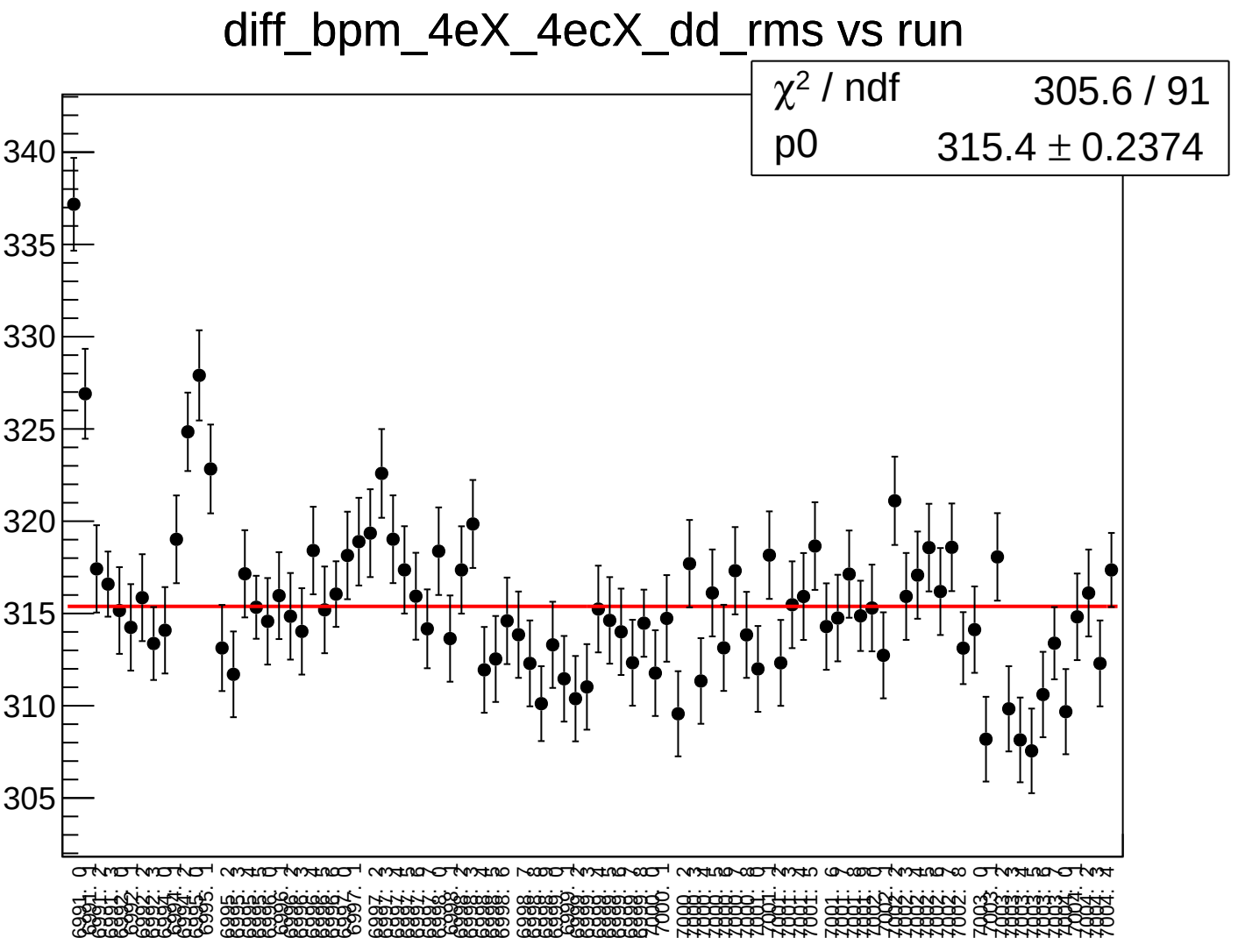

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 82.52 / 91
p0 −10.63 ± 9.331
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −779
Std Dev 0
2
1
0
−1
−2

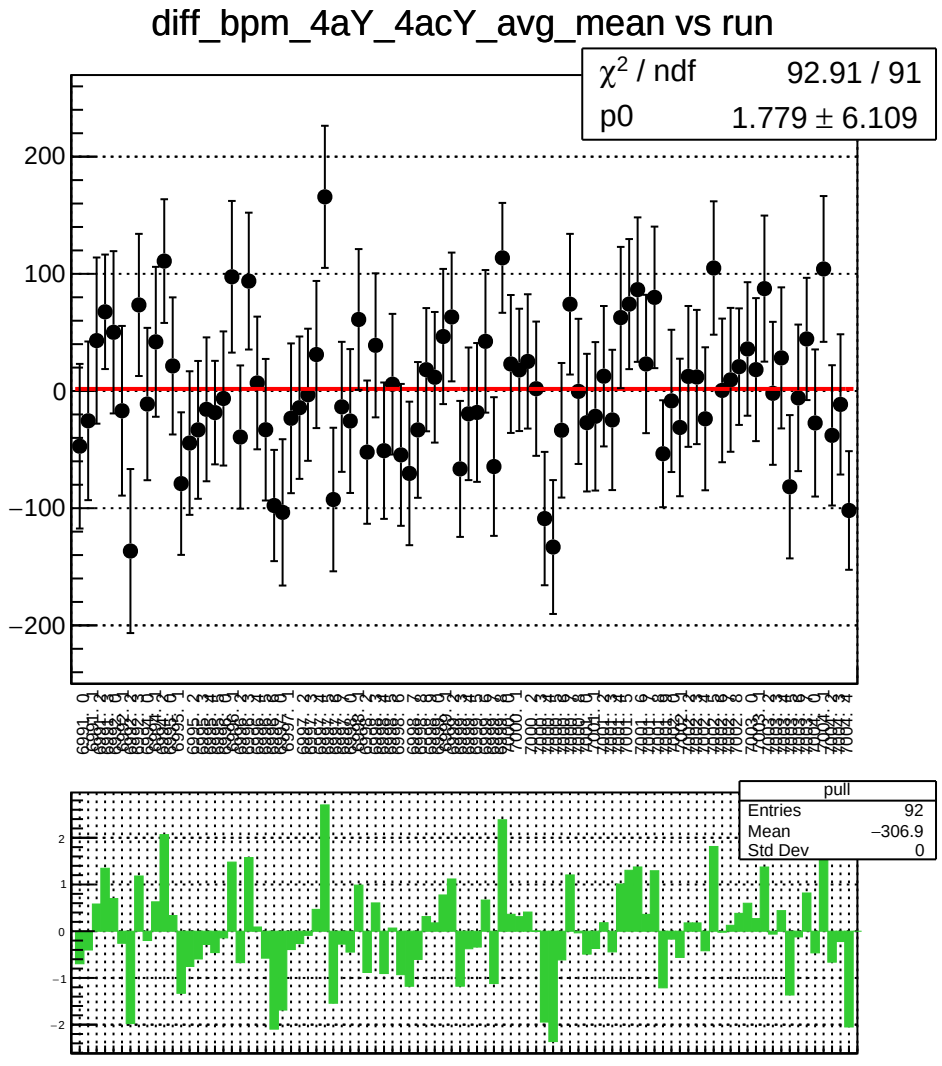

pull1D
Entries 92
Mean −0.004333
Std Dev 0.9471
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

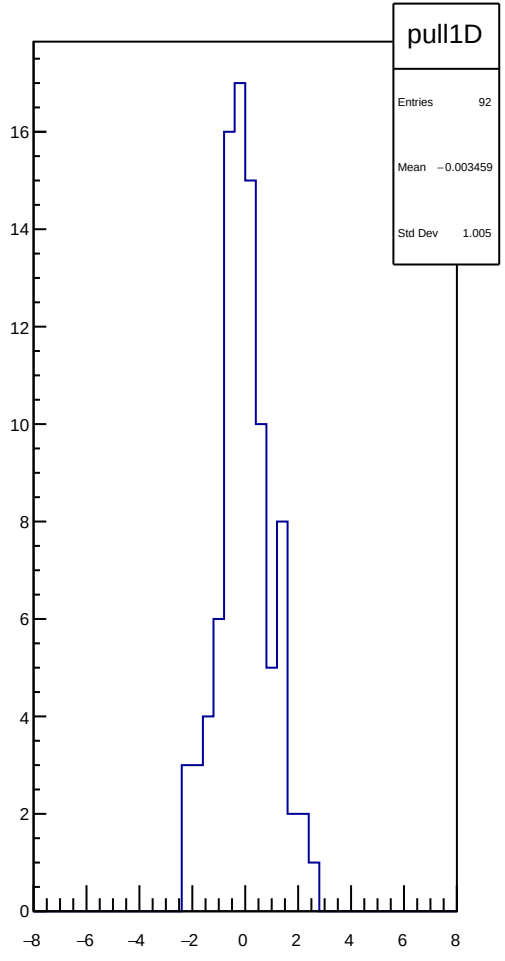

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 3566 / 91
p0 8757 ± 6.598
10000
9500
9000
8500
8000

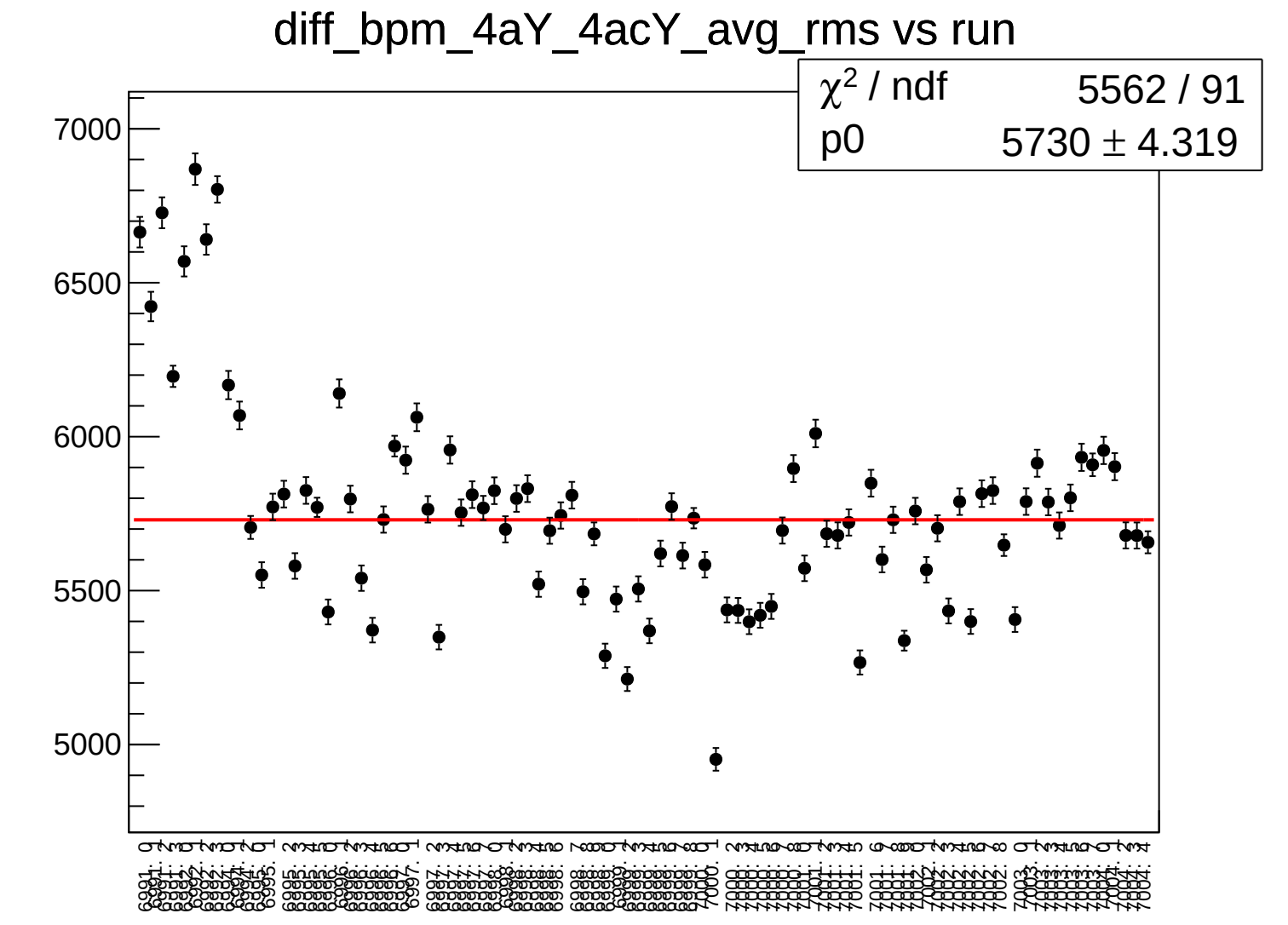

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 93.67 / 91
p0 0.3538 ± 0.3357
pull
Entries 92
Mean 221
Std Dev 0

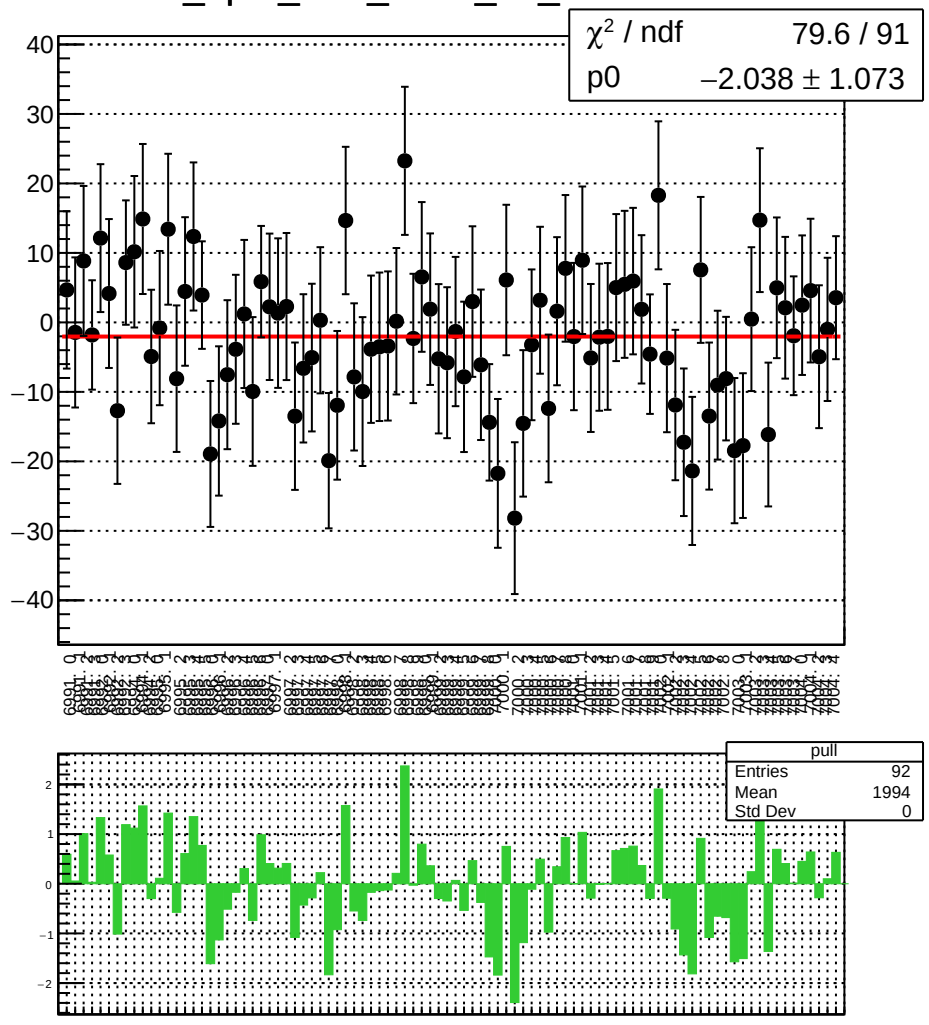

pull1D
Entries 92
Mean −0.00726
Std Dev 1.009

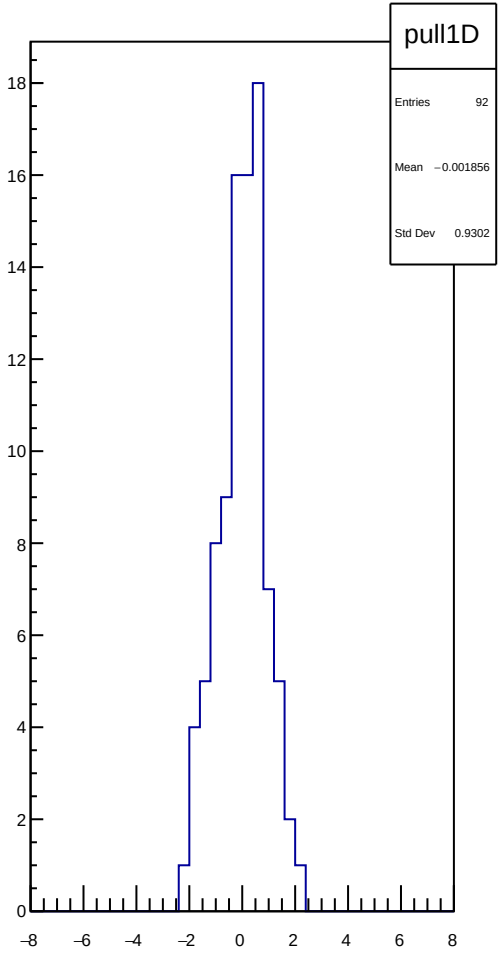

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 305.6 / 91
p0 315.4 ± 0.2374
340
335
330
325
320
315
310
305

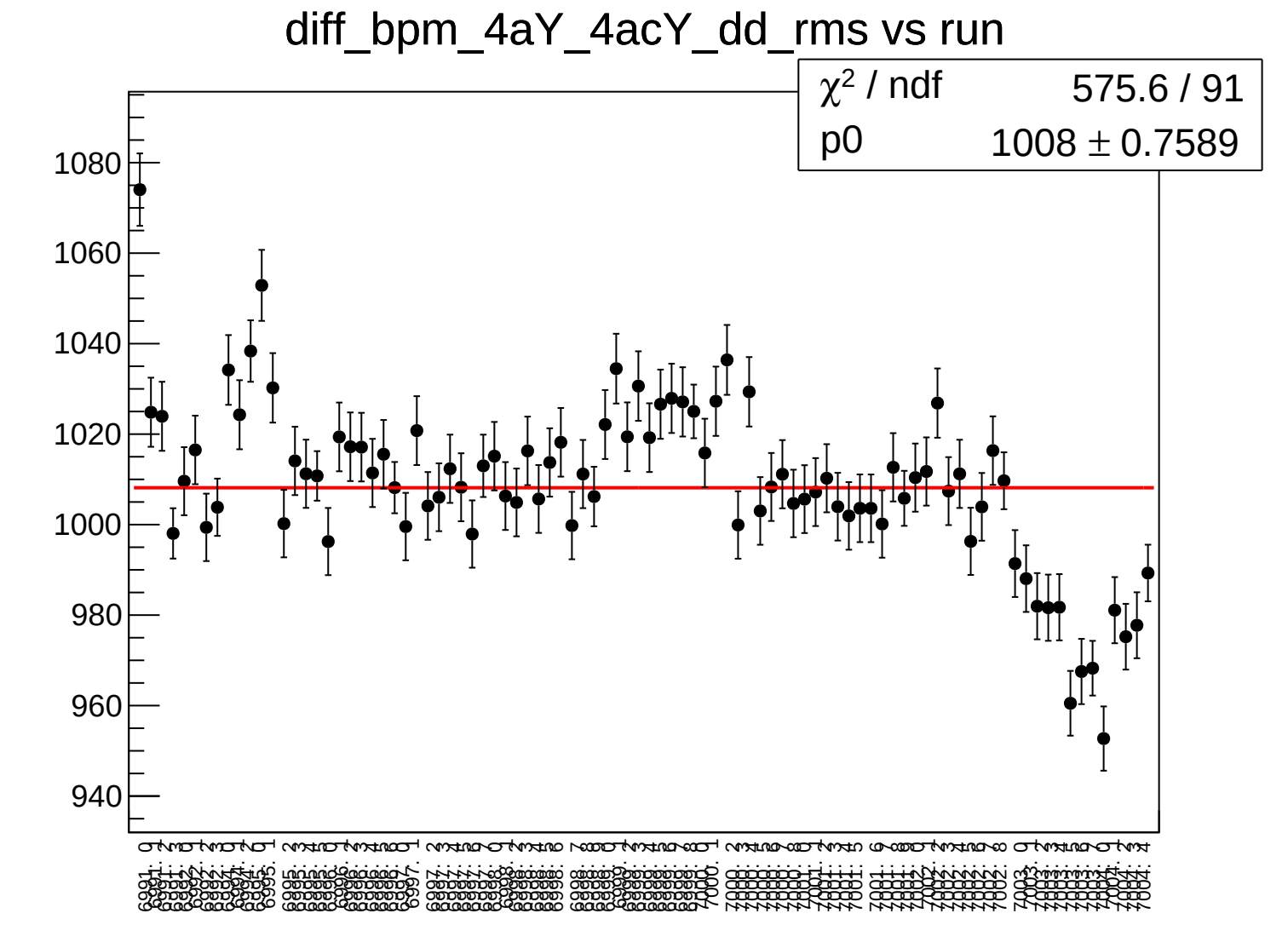

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 92.91 / 91
p0 1.779 ± 6.109
200
100
0
−100
−200
pull
Entries 92
Mean −306.9
Std Dev 0
2
1
0
−1
−2

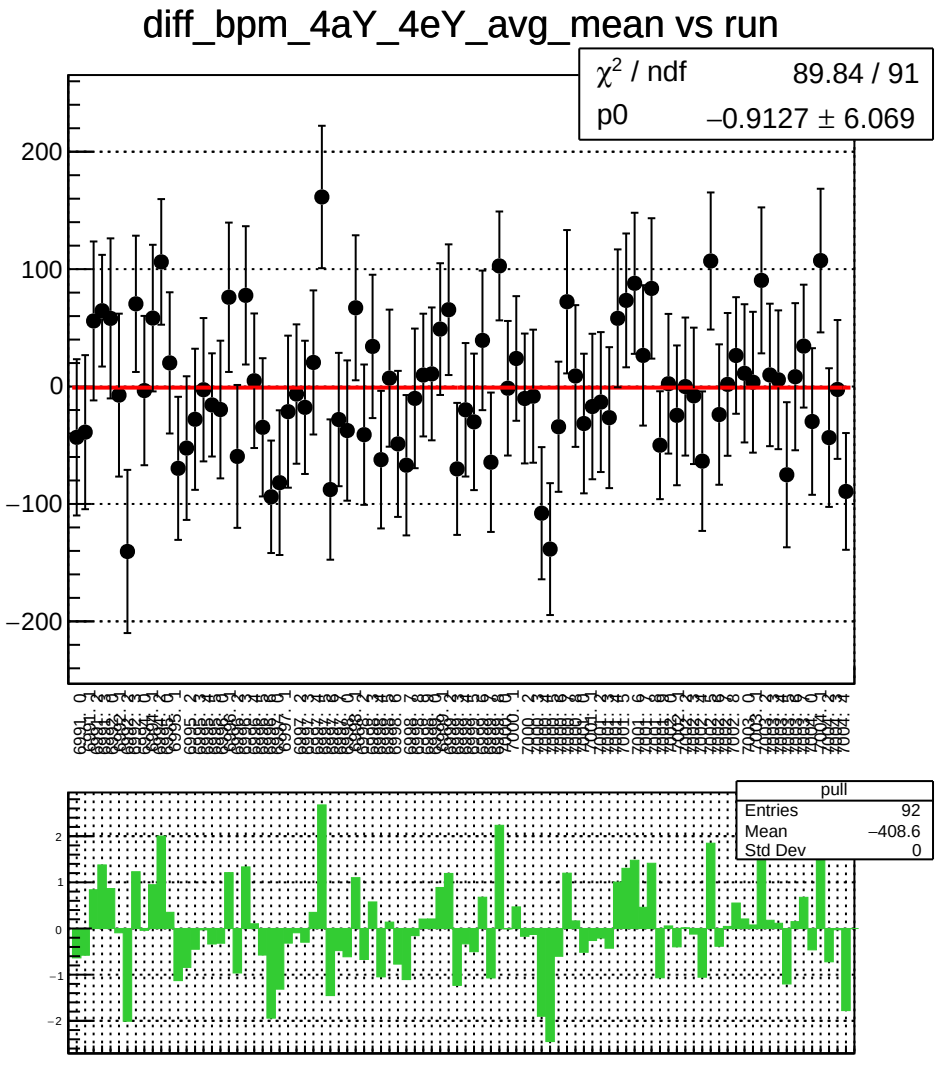

pull1D
Entries 92
Mean −0.003459
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

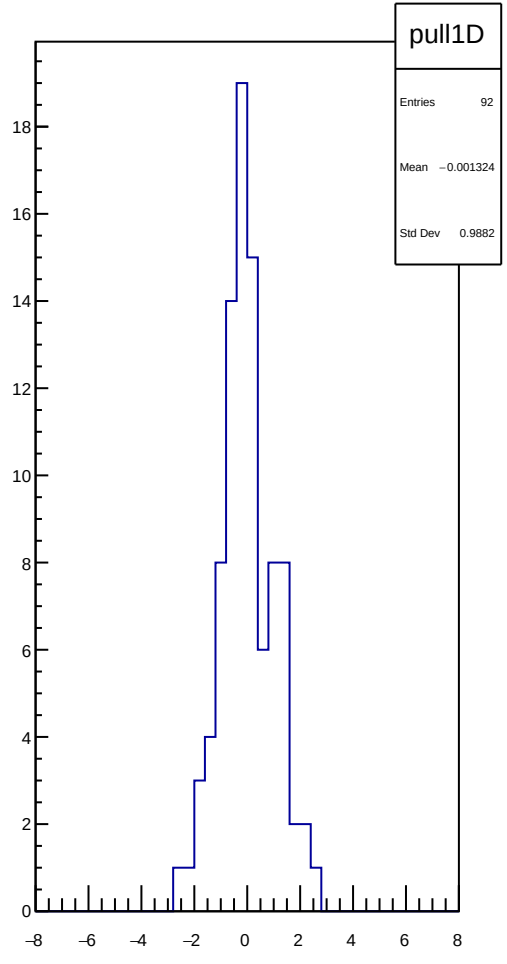

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 5562 / 91
p0 5730 ± 4.319
7000
6500
6000
5500
5000

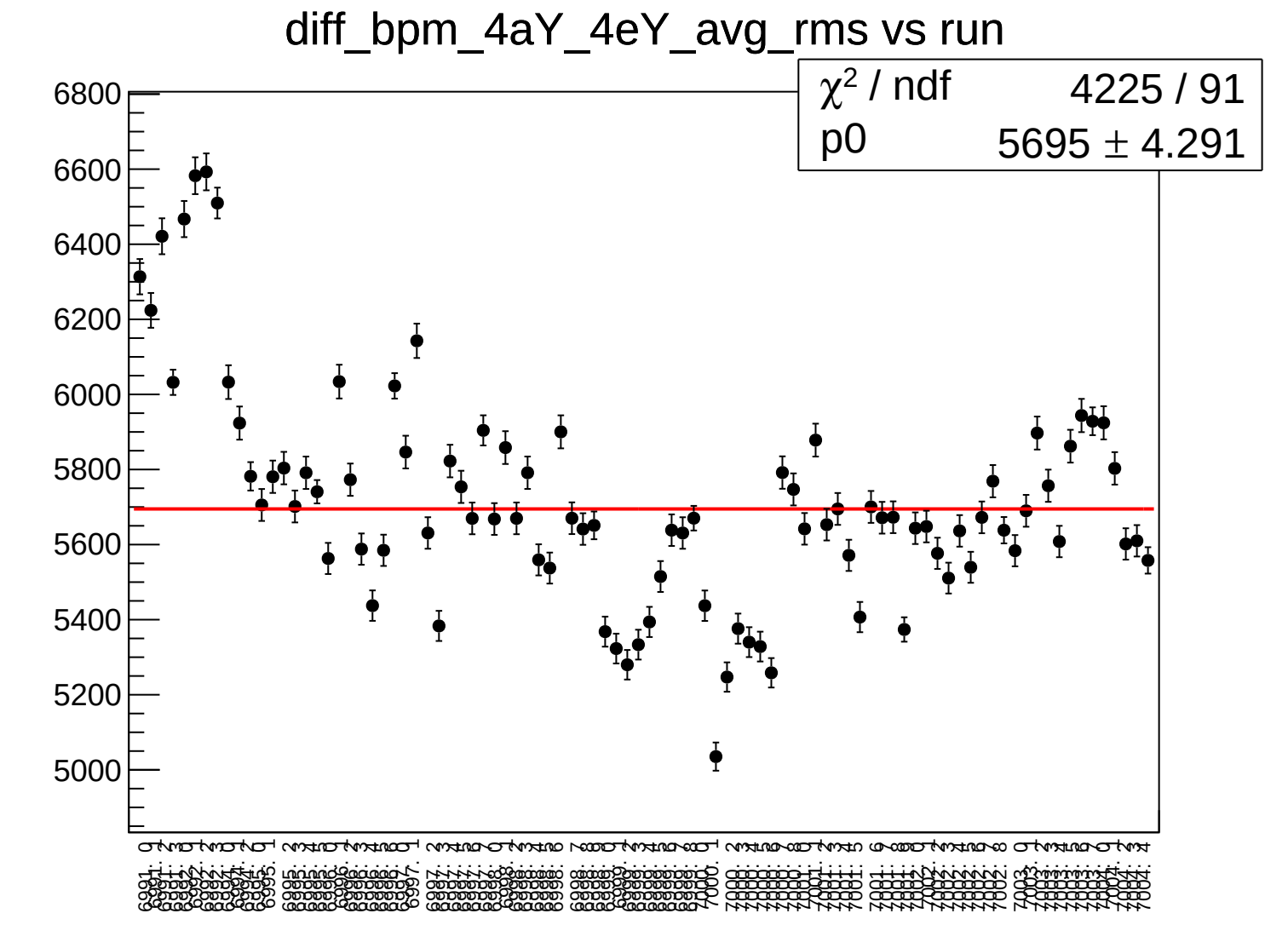

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 79.6 / 91
p0 −2.038 ± 1.073
pull
Entries 92
Mean 1994
Std Dev 0

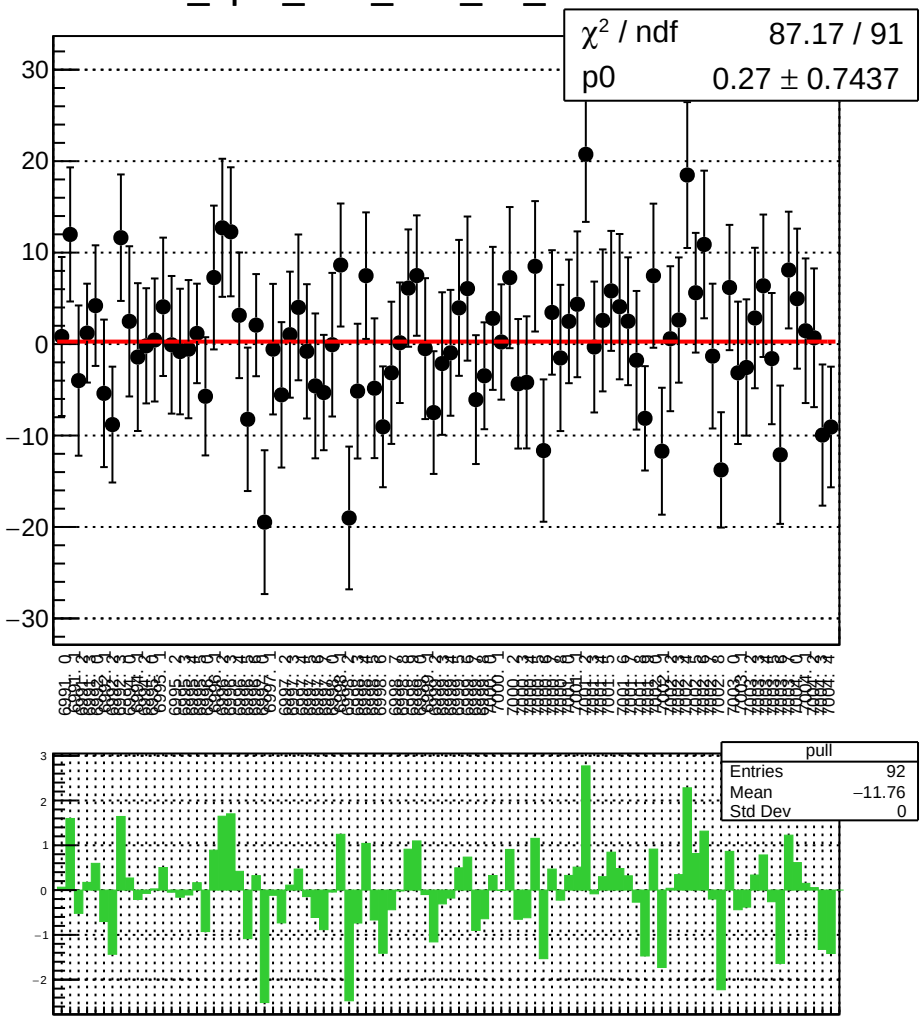

pull1D
Entries 92
Mean −0.001856
Std Dev 0.9302

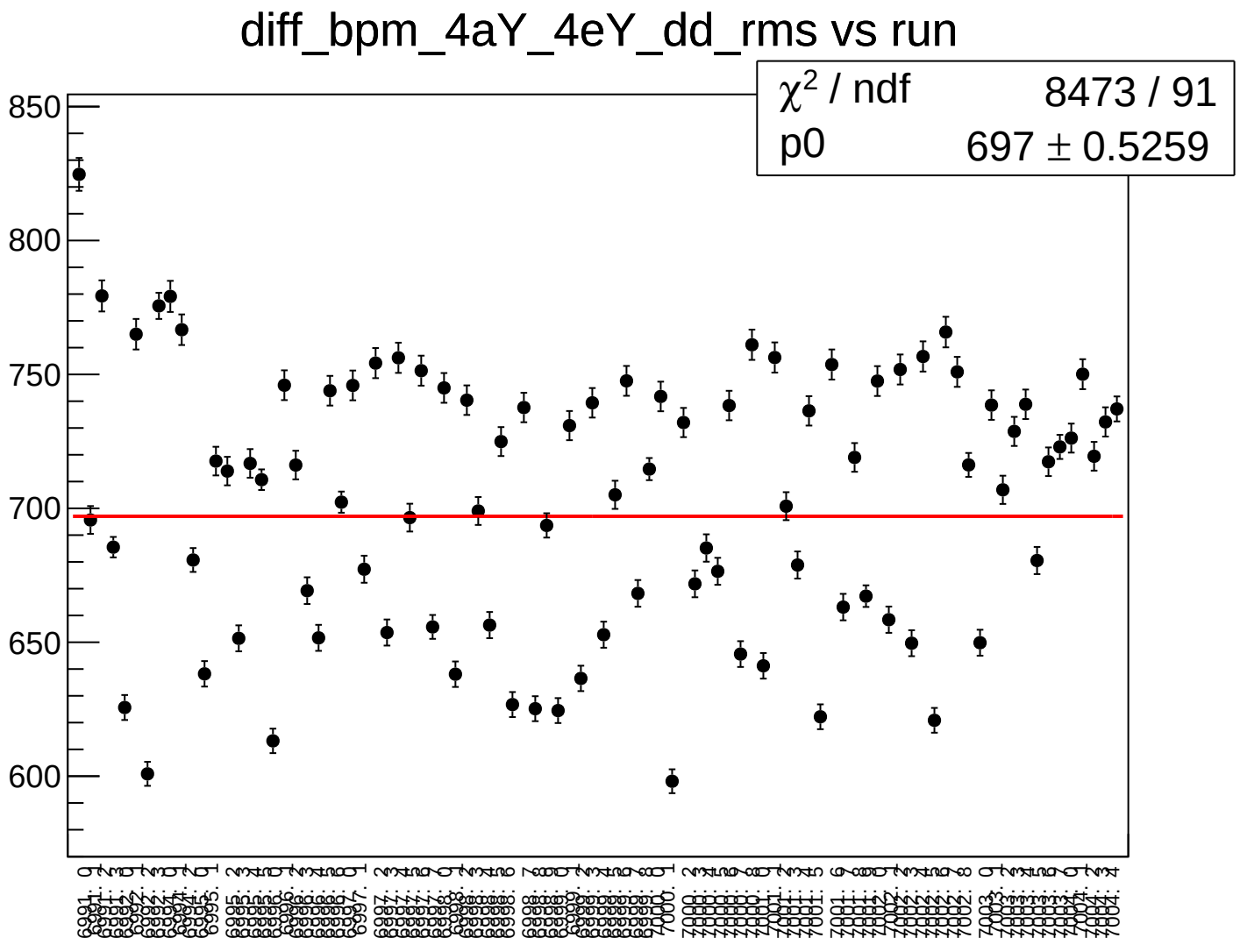

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 575.6 / 91
p0 1008 ± 0.7589
1080
1060
1040
1020
1000
980
960
940

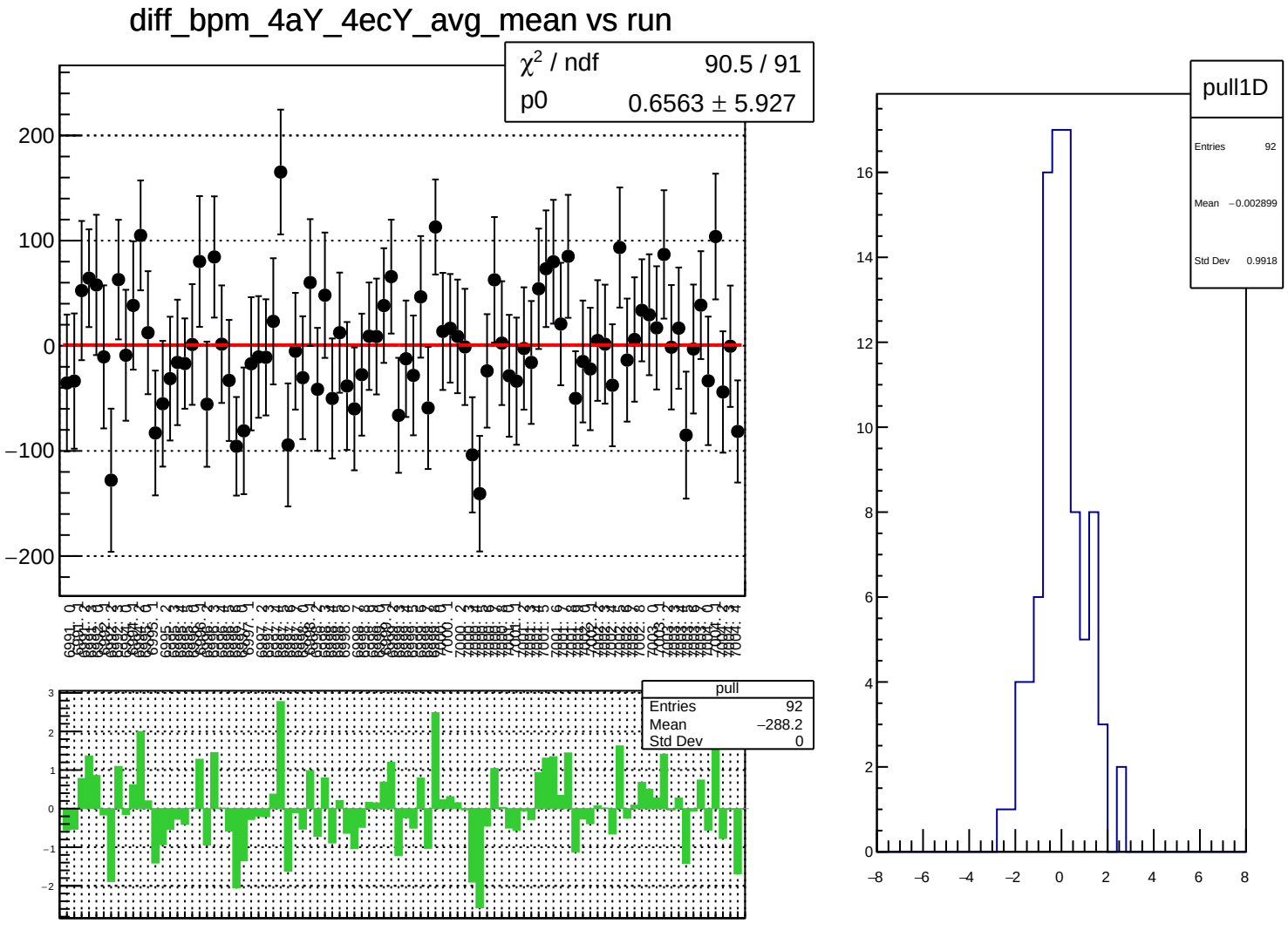

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 89.84 / 91
p0 −0.9127 ± 6.069
200
100
0
−100
−200
pull
Entries 92
Mean −408.6
Std Dev 0
2
1
0
−1
−2

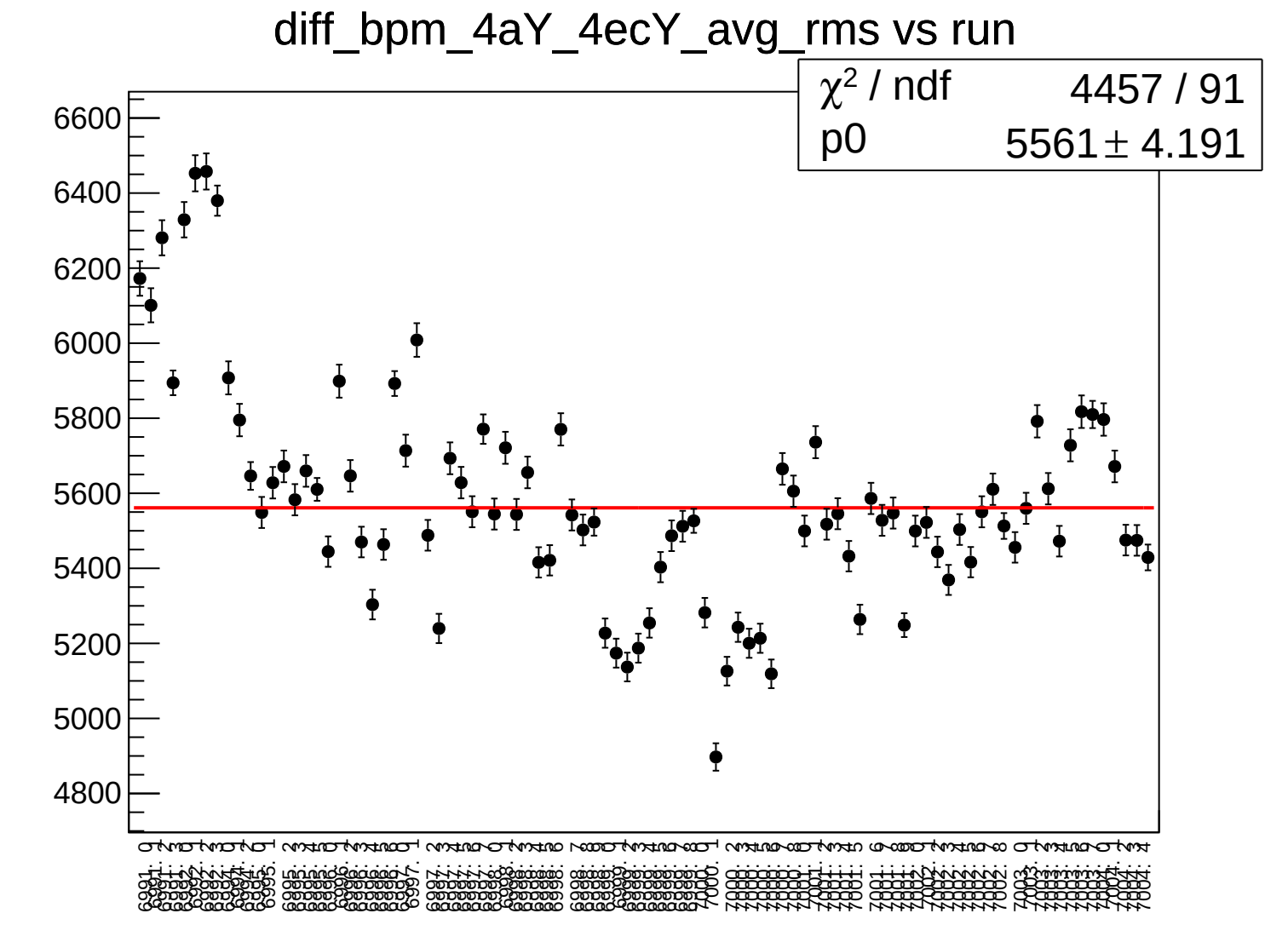

pull1D
Entries 92
Mean −0.001324
Std Dev 0.9882
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

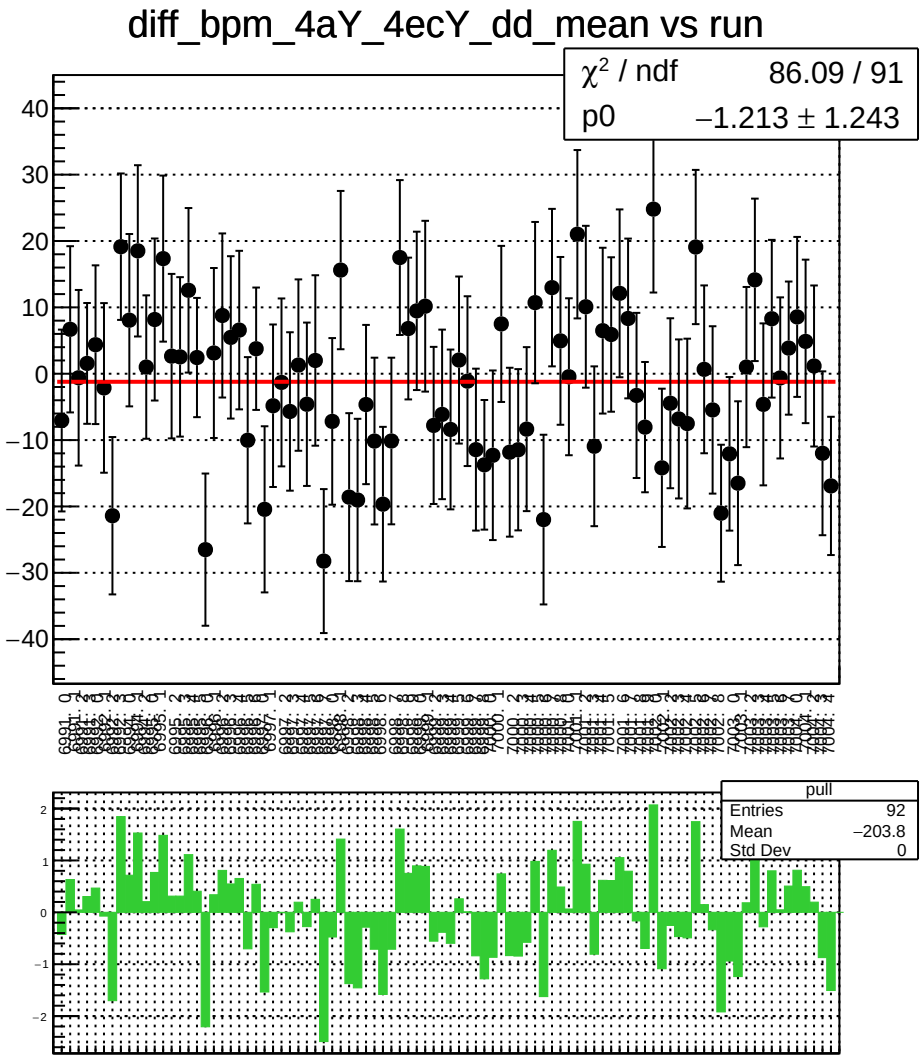

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 4225 / 91
p0 5695 ± 4.291
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

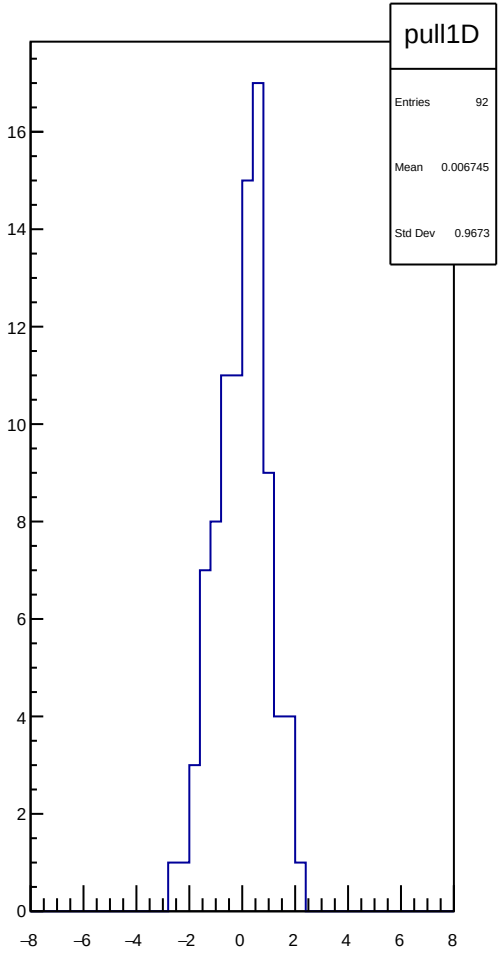

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 87.17 / 91
p0 0.27 ± 0.7437
pull
Entries 92
Mean −11.76
Std Dev 0
pull1D
Entries 92
Mean 0.005343
Std Dev 0.9734

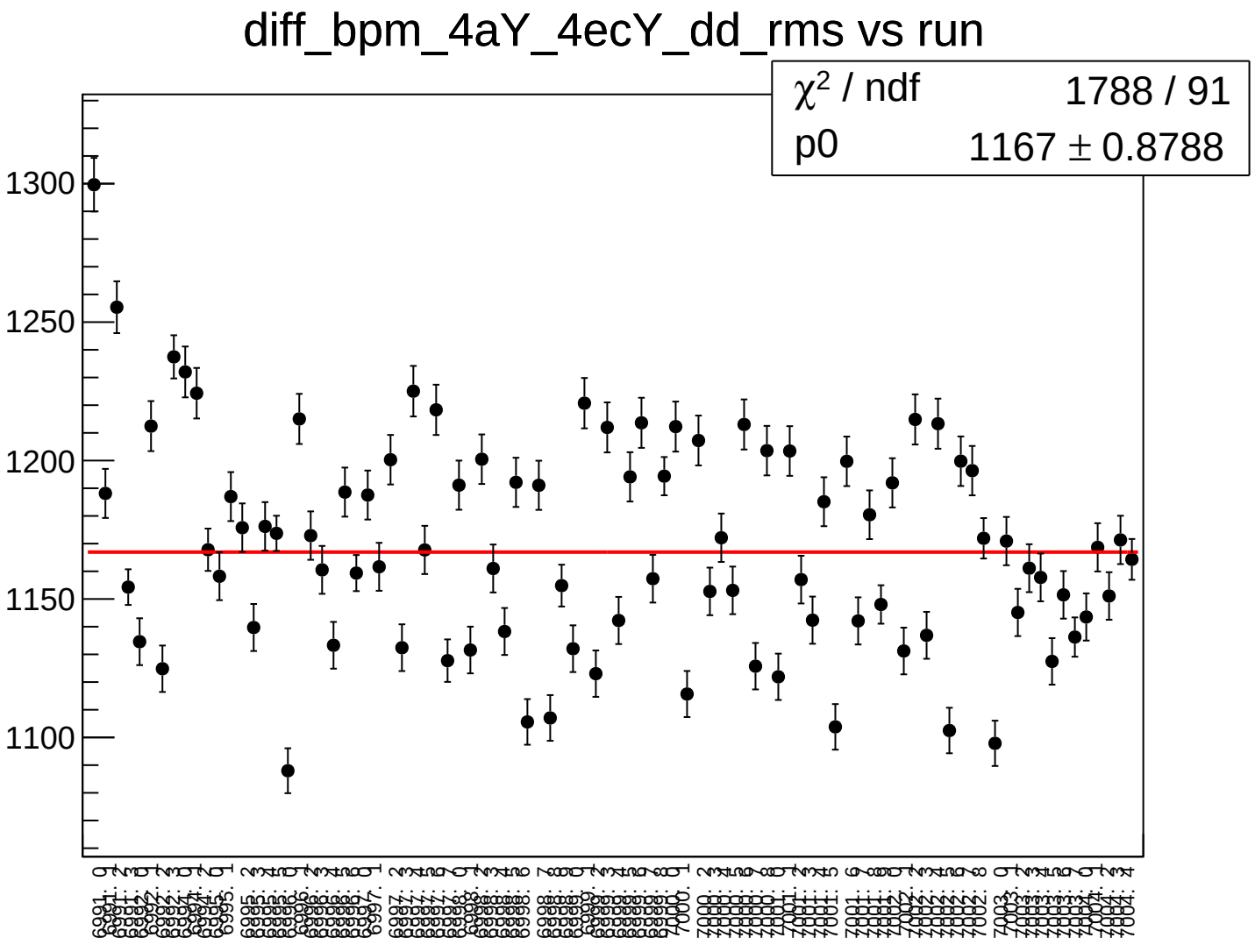

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 8473 / 91
p0 697 ± 0.5259
850
800
750
700
650
600

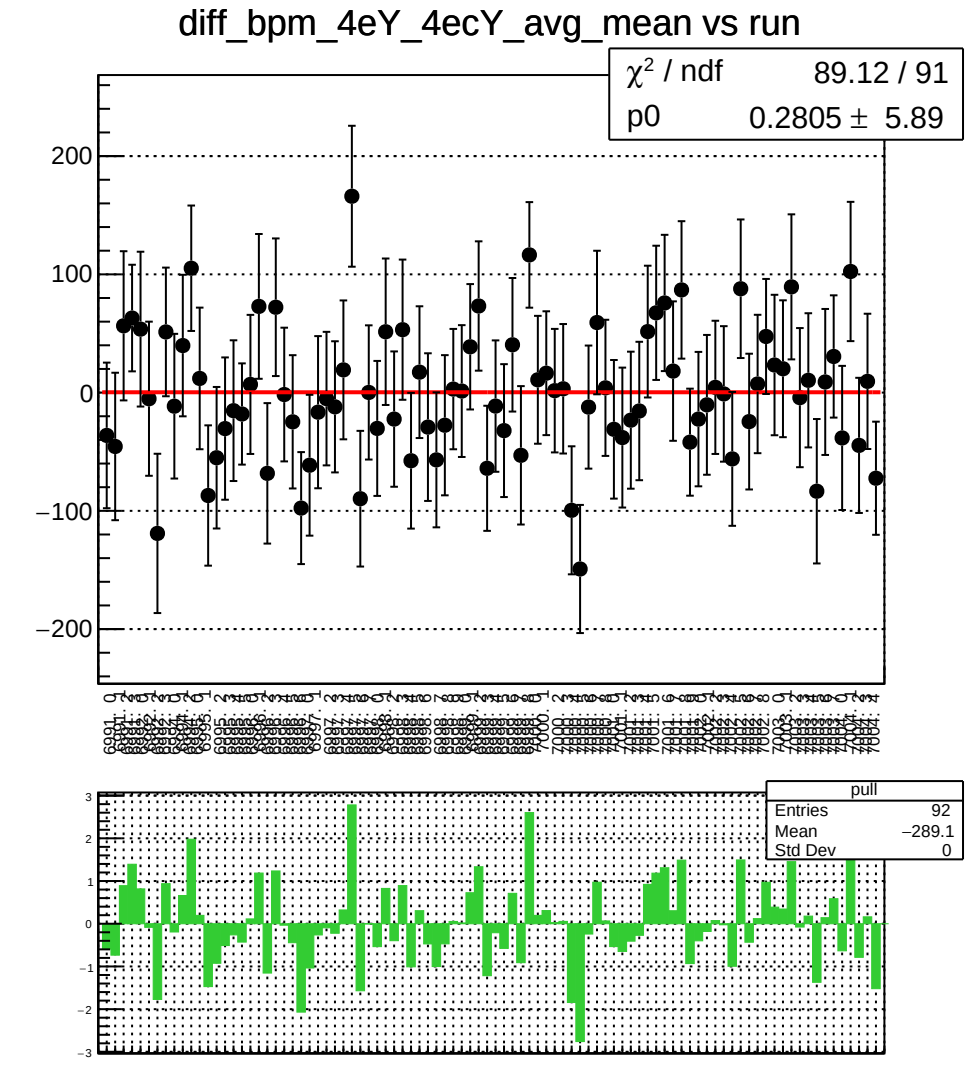

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 90.5 / 91
p0 0.6563 ± 5.927
200
100
0
−100
−200
pull
Entries 92
Mean −288.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002899
Std Dev 0.9918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

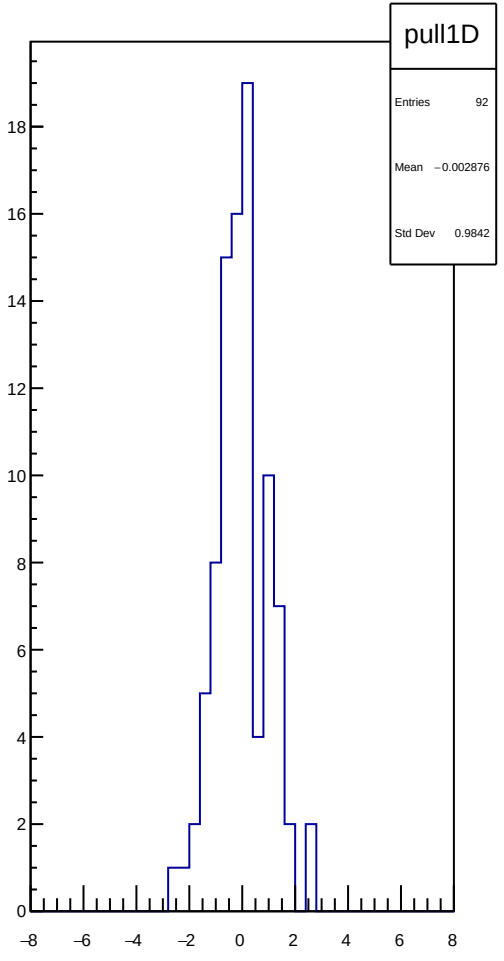

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 4457 / 91
p0 5561 ± 4.191
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

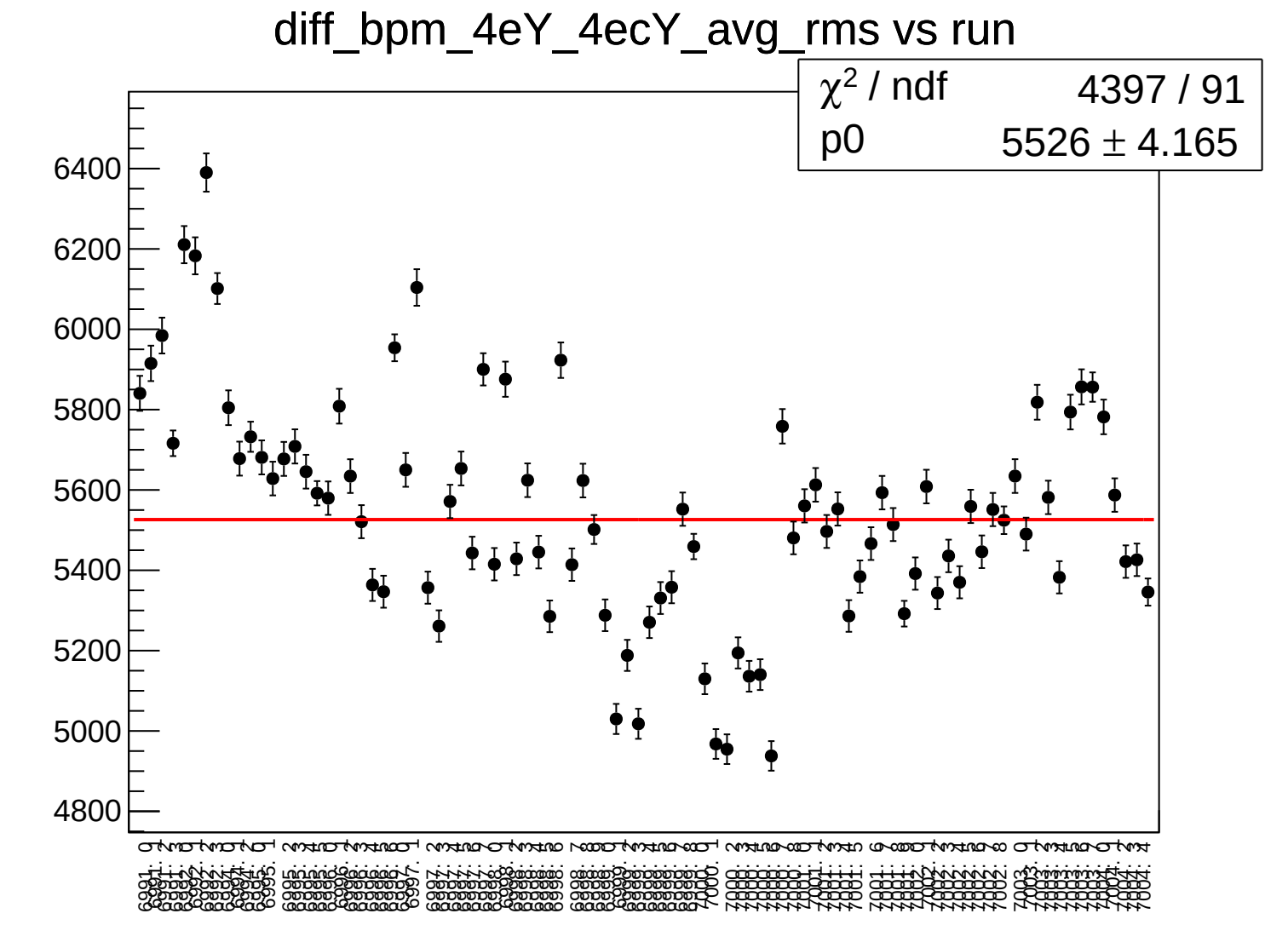

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 86.09 / 91
p0 −1.213 ± 1.243
pull
Entries 92
Mean −203.8
Std Dev 0

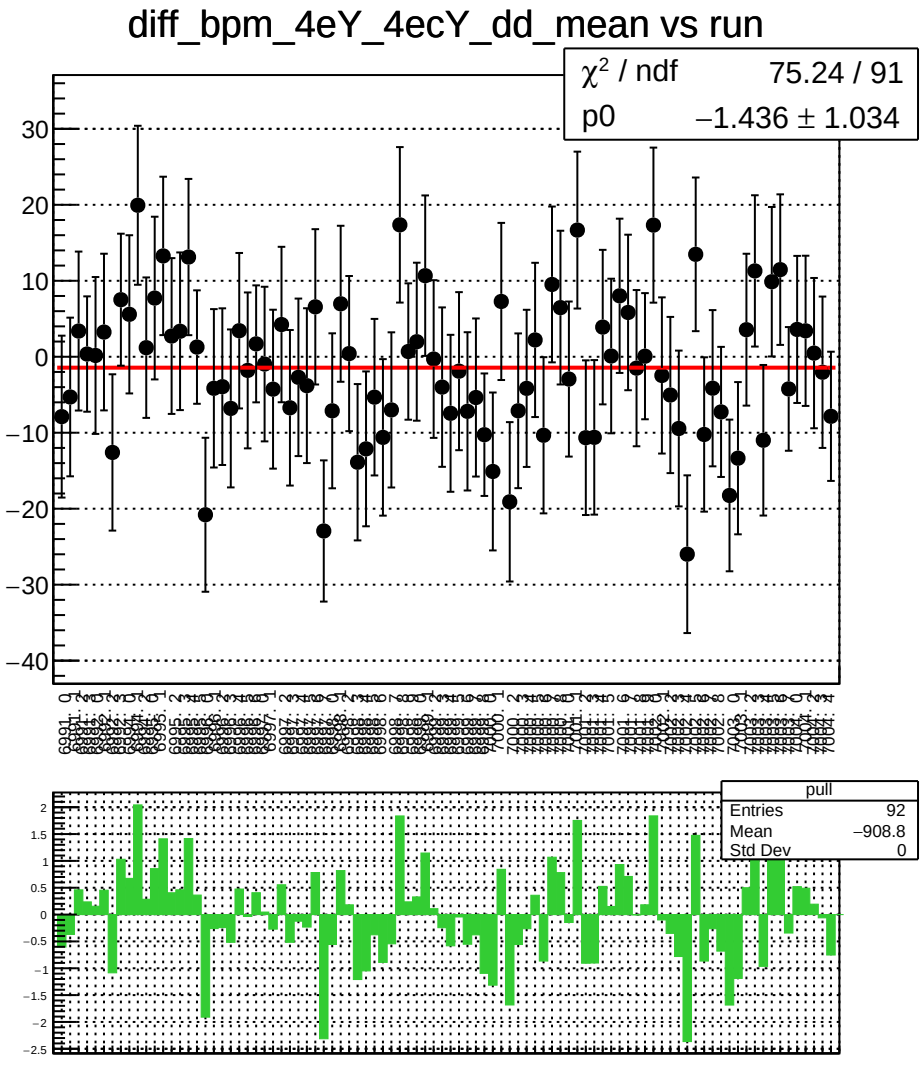

pull1D
Entries 92
Mean 0.006745
Std Dev 0.9673

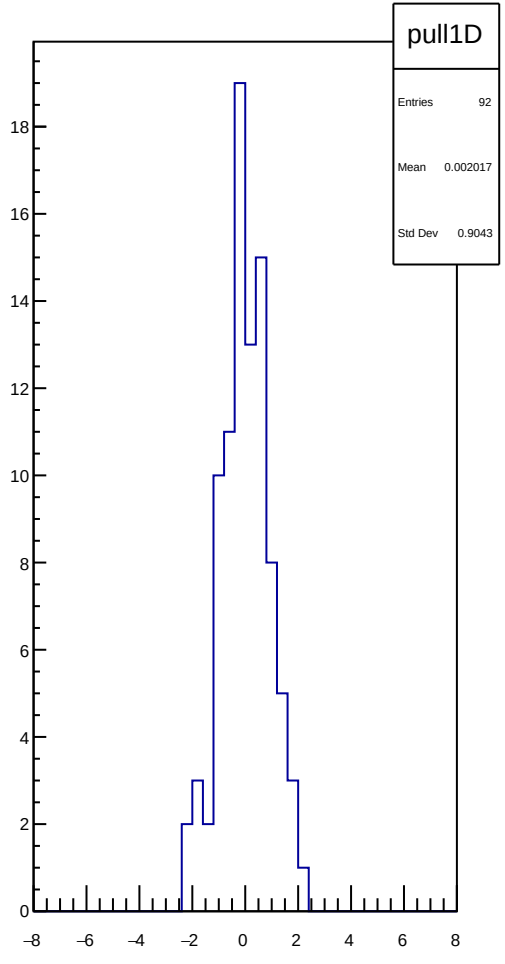

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 1788 / 91
p0 1167 ± 0.8788
1300
1250
1200
1150
1100

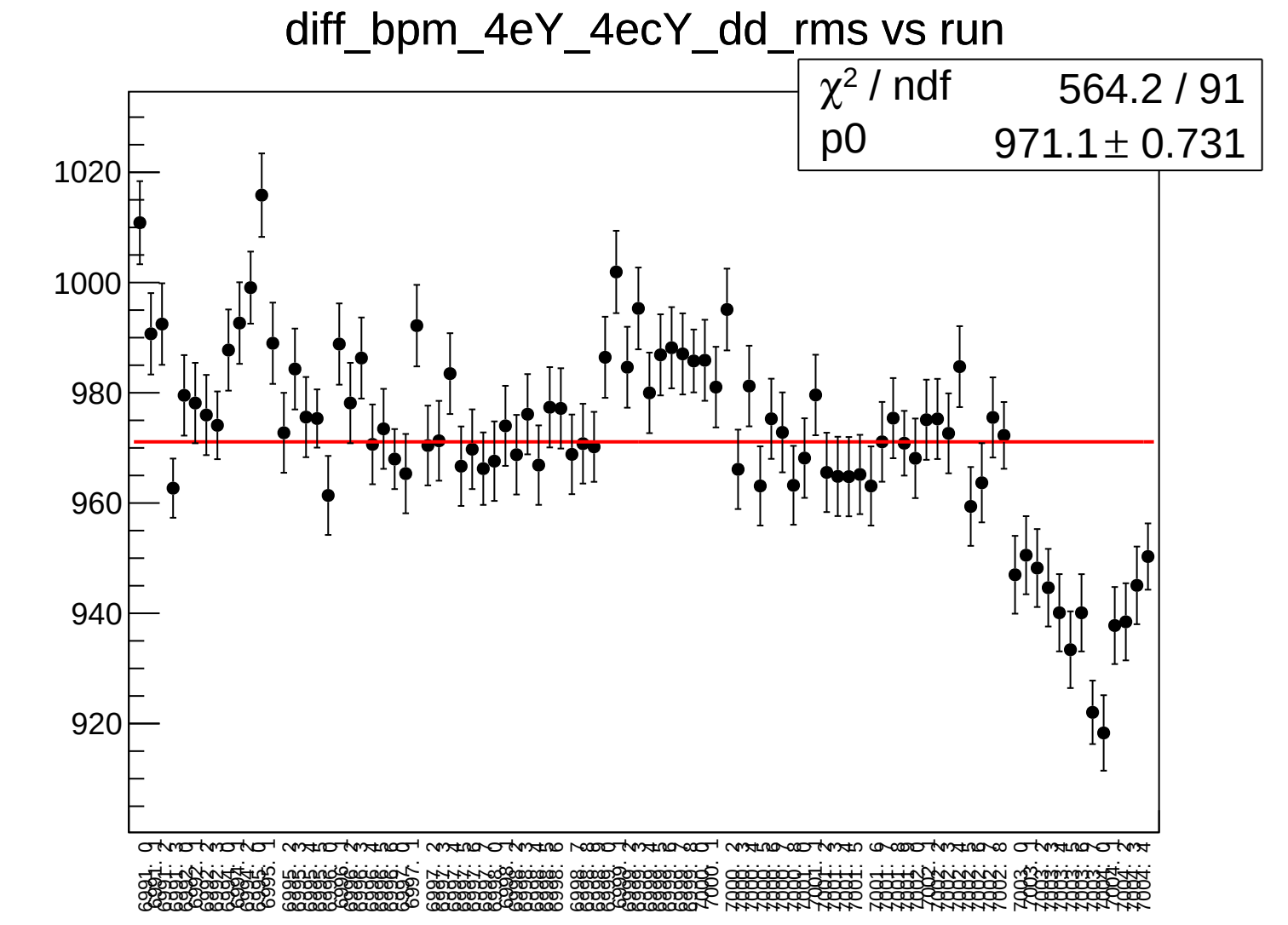

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 89.12 / 91
p0 0.2805 ± 5.89
200
100
0
−100
−200
pull
Entries 92
Mean −289.1
Std Dev 0
3
2
1
0
−1
−2
−3

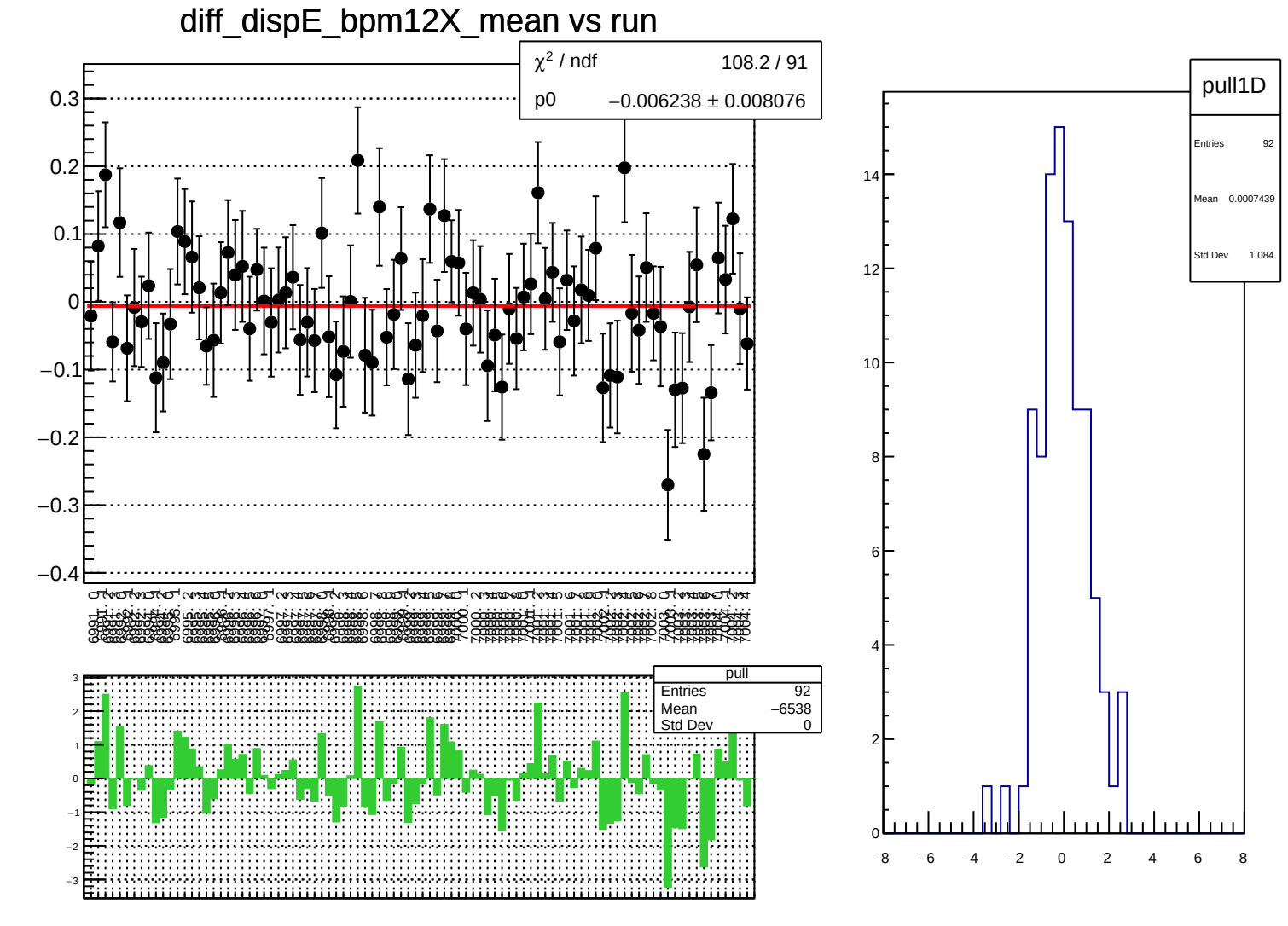

pull1D
Entries 92
Mean −0.002876
Std Dev 0.9842
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

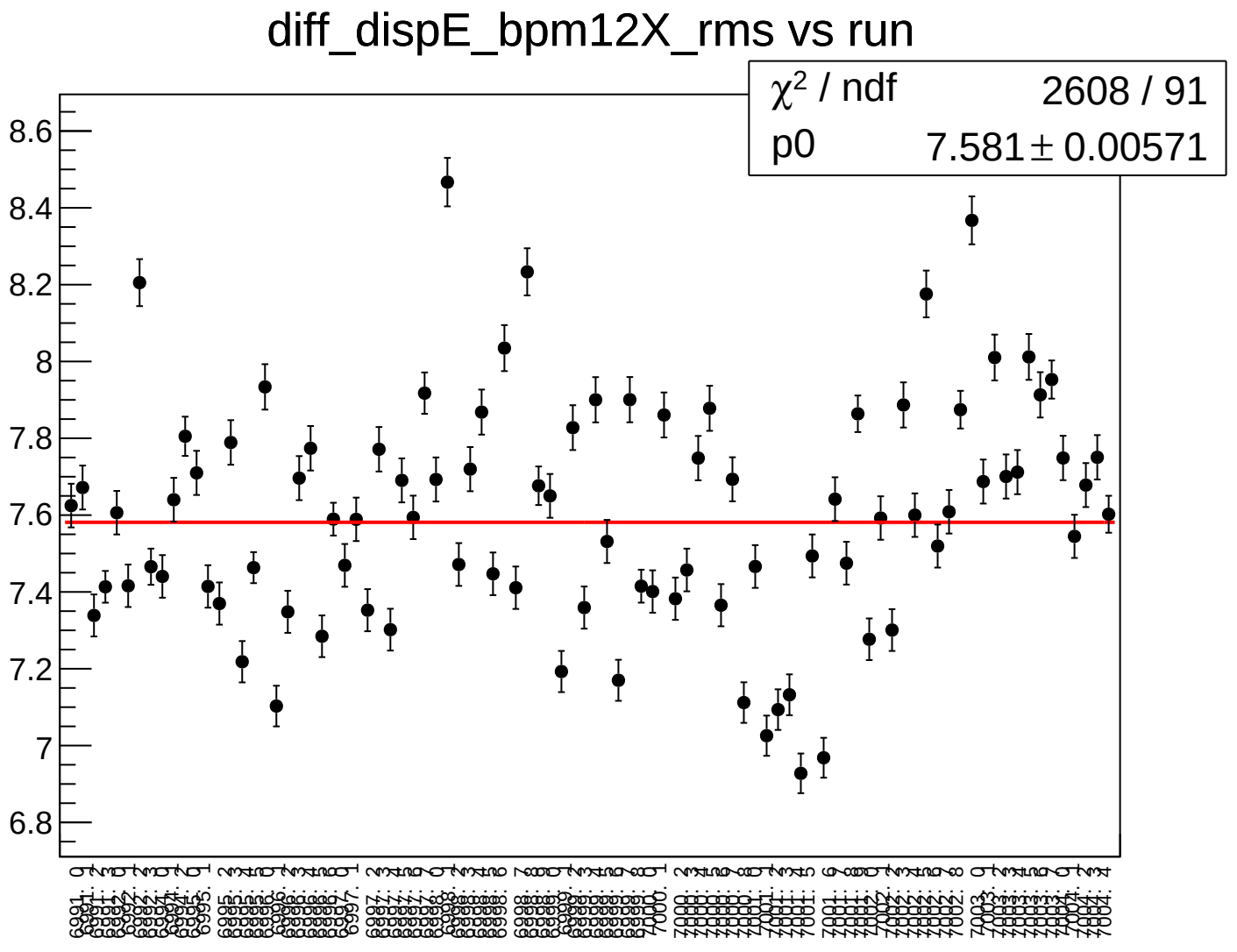

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 4397 / 91
p0 5526 ± 4.165
6400
6200
6000
5800
5600
5400
5200
5000
4800

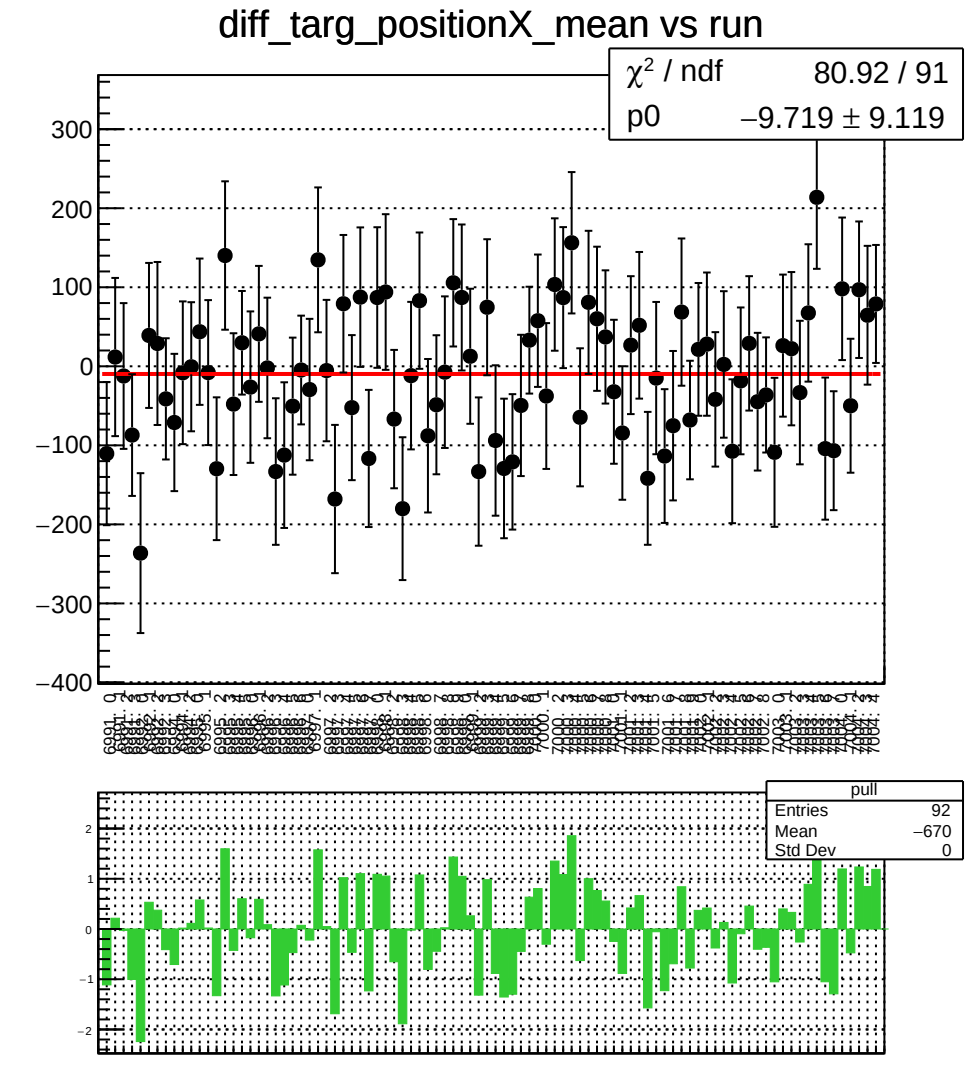

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 75.24 / 91
p0 −1.436 ± 1.034
pull
Entries 92
Mean −908.8
Std Dev 0

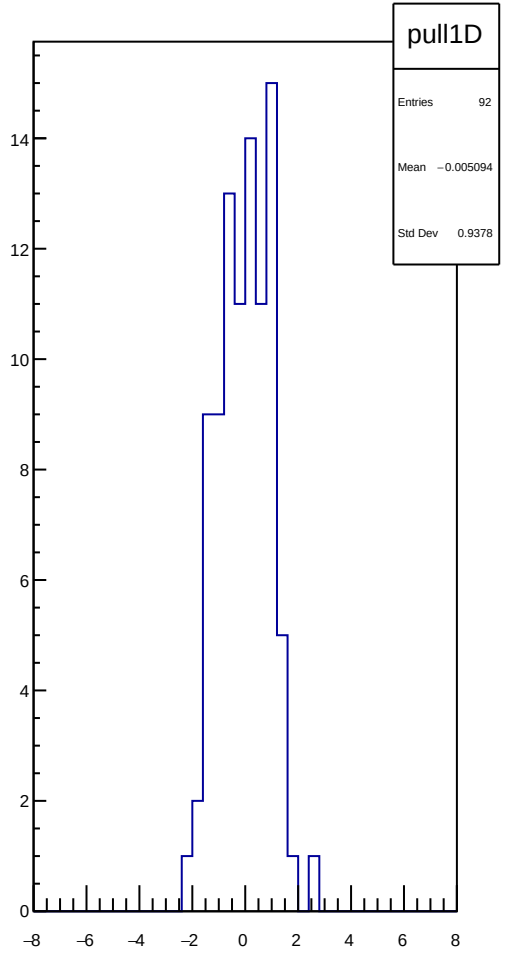

pull1D
Entries 92
Mean 0.002017
Std Dev 0.9043

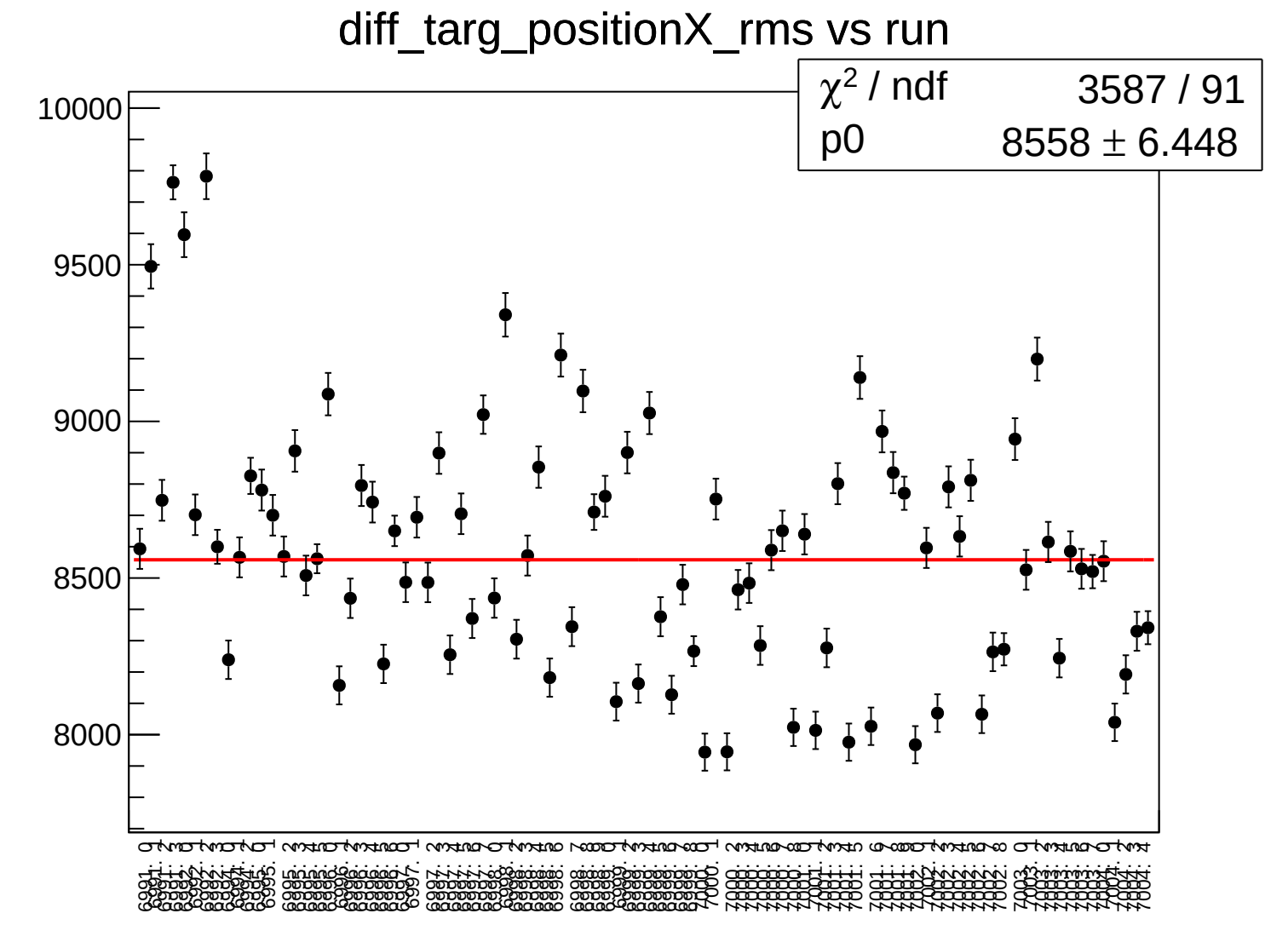

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 564.2 / 91
p0 971.1 ± 0.731
1020
1000
980
960
940
920

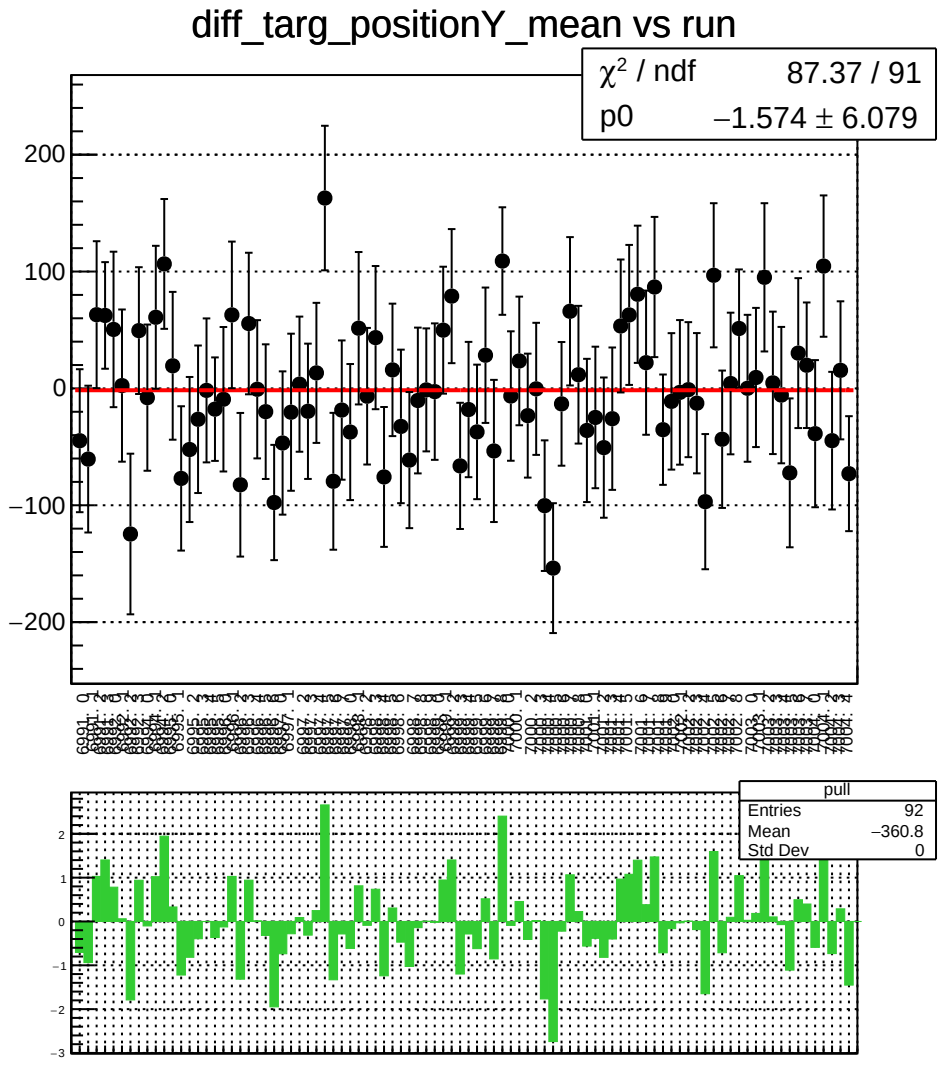

diff_dispE_bpm12X_mean vs run
χ² / ndf 108.2 / 91
p0 −0.006238 ± 0.008076
pull
Entries 92
Mean −6538
Std Dev 0
pull1D
Entries 92
Mean 0.0007439
Std Dev 1.084

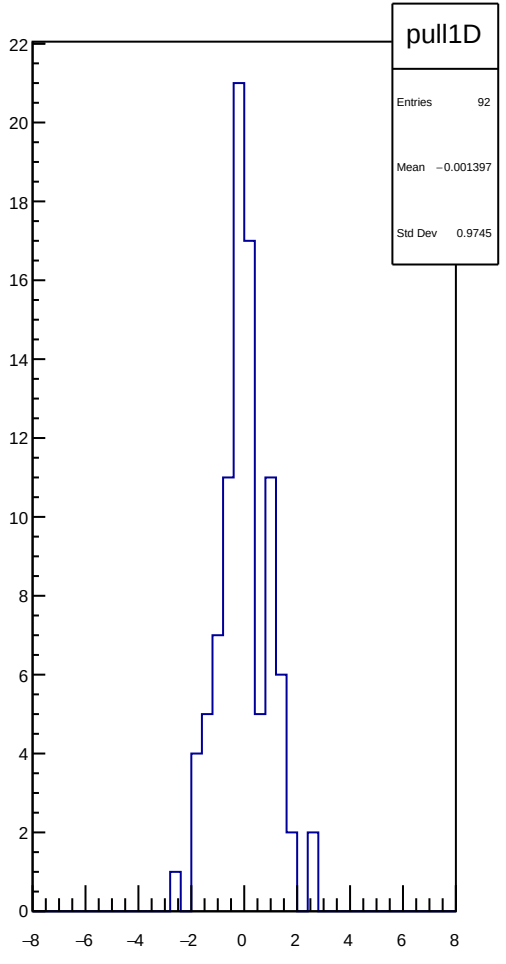

diff_dispE_bpm12X_rms vs run
χ² / ndf 2608 / 91
p0 7.581 ± 0.00571
8.6
8.4
8.2
8
7.8
7.6
7.4
7.2
7
6.8

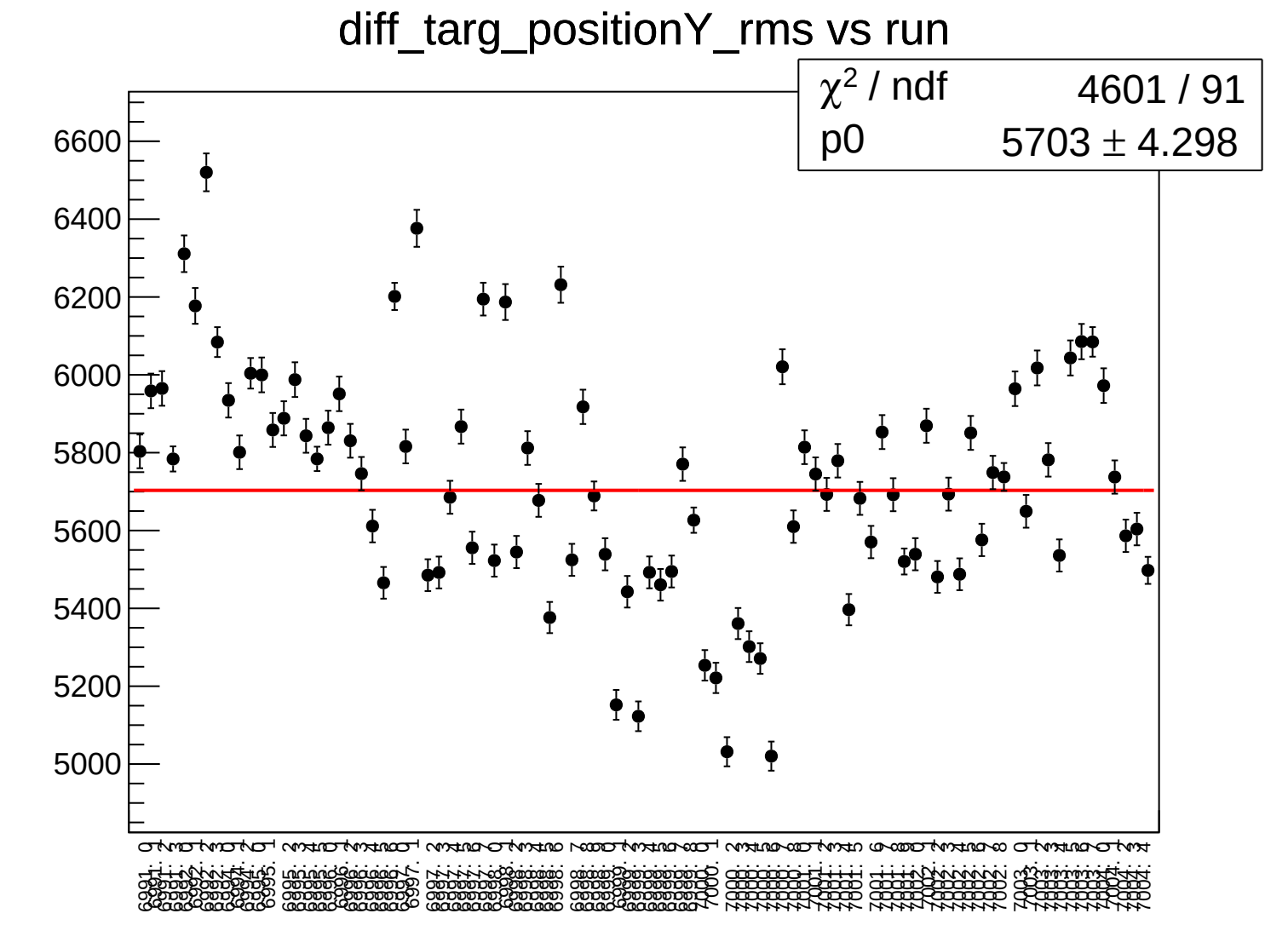

diff_targ_positionX_mean vs run
χ² / ndf 80.92 / 91
p0 −9.719 ± 9.119
pull
Entries 92
Mean −670
Std Dev 0

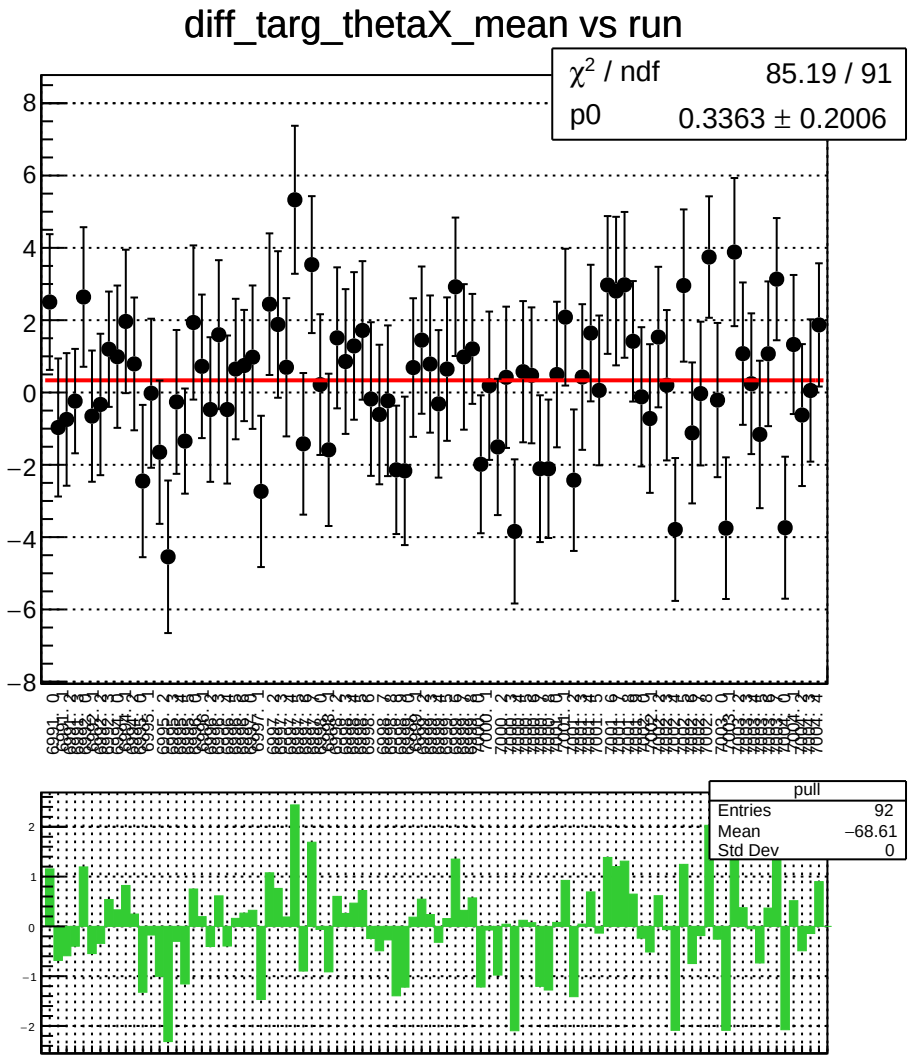

pull1D
Entries 92
Mean −0.005094
Std Dev 0.9378

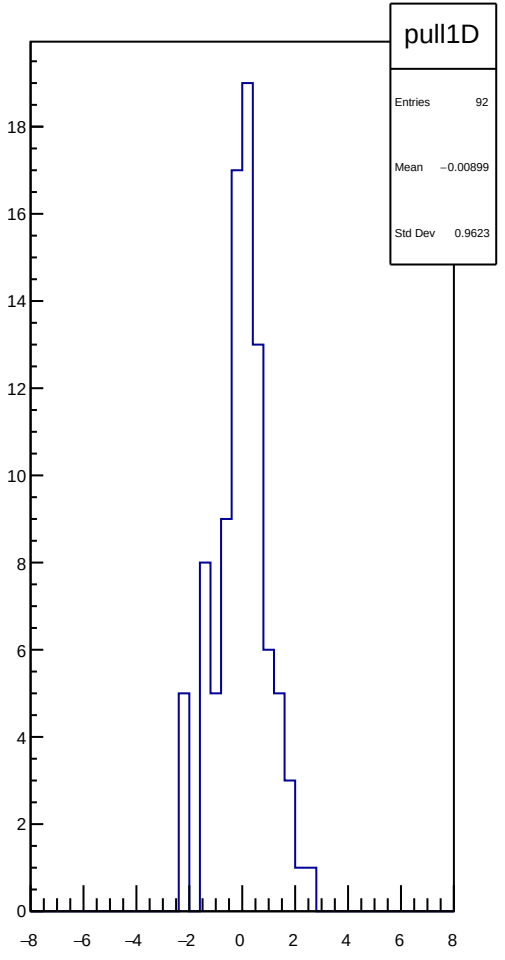

diff_targ_positionX_rms vs run
χ² / ndf 3587 / 91
p0 8558 ± 6.448
10000
9500
9000
8500
8000

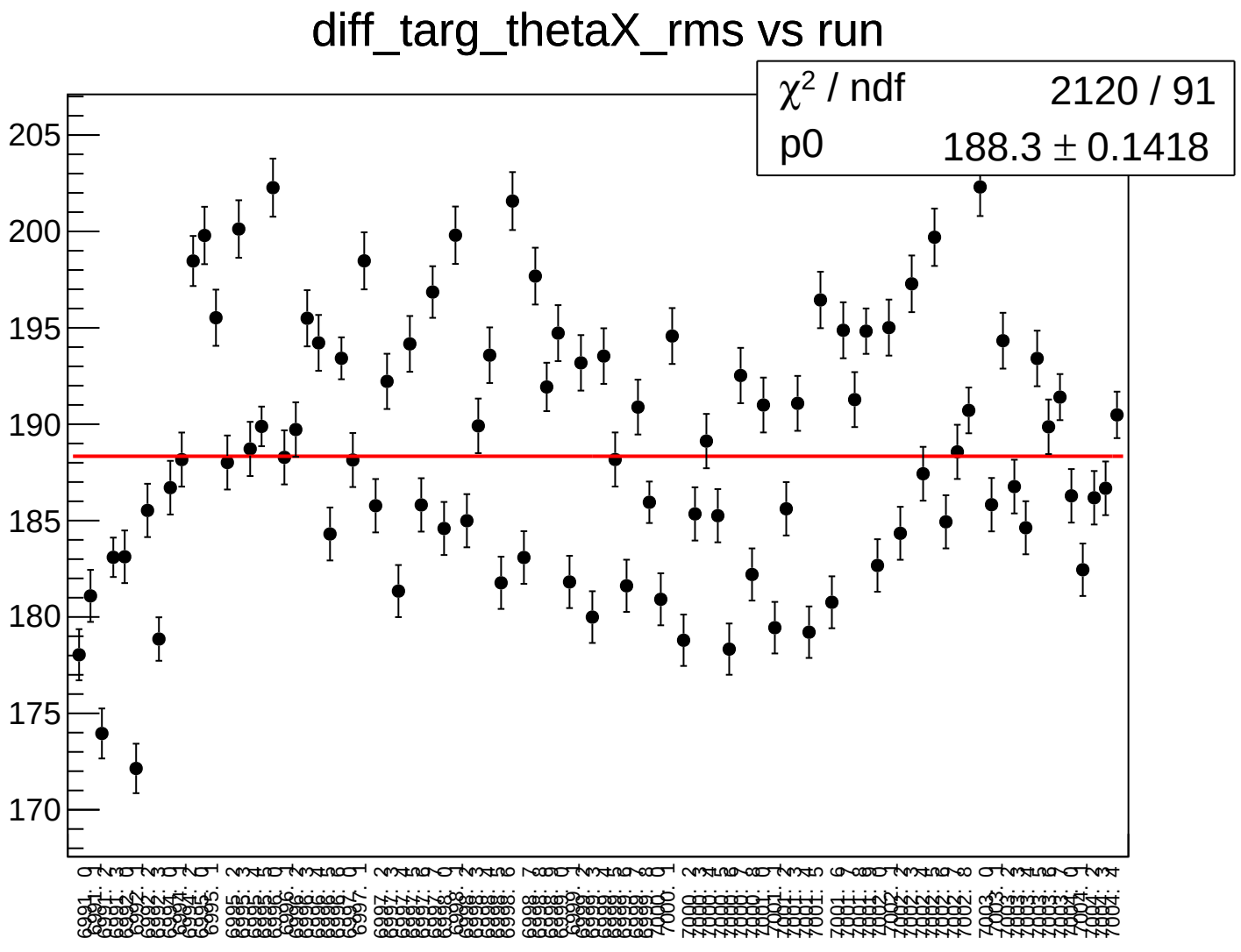

diff_targ_positionY_mean vs run
χ² / ndf 87.37 / 91
p0 −1.574 ± 6.079
200
100
0
−100
−200
pull
Entries 92
Mean −360.8
Std Dev 0
2
1
0
−1
−2
−3

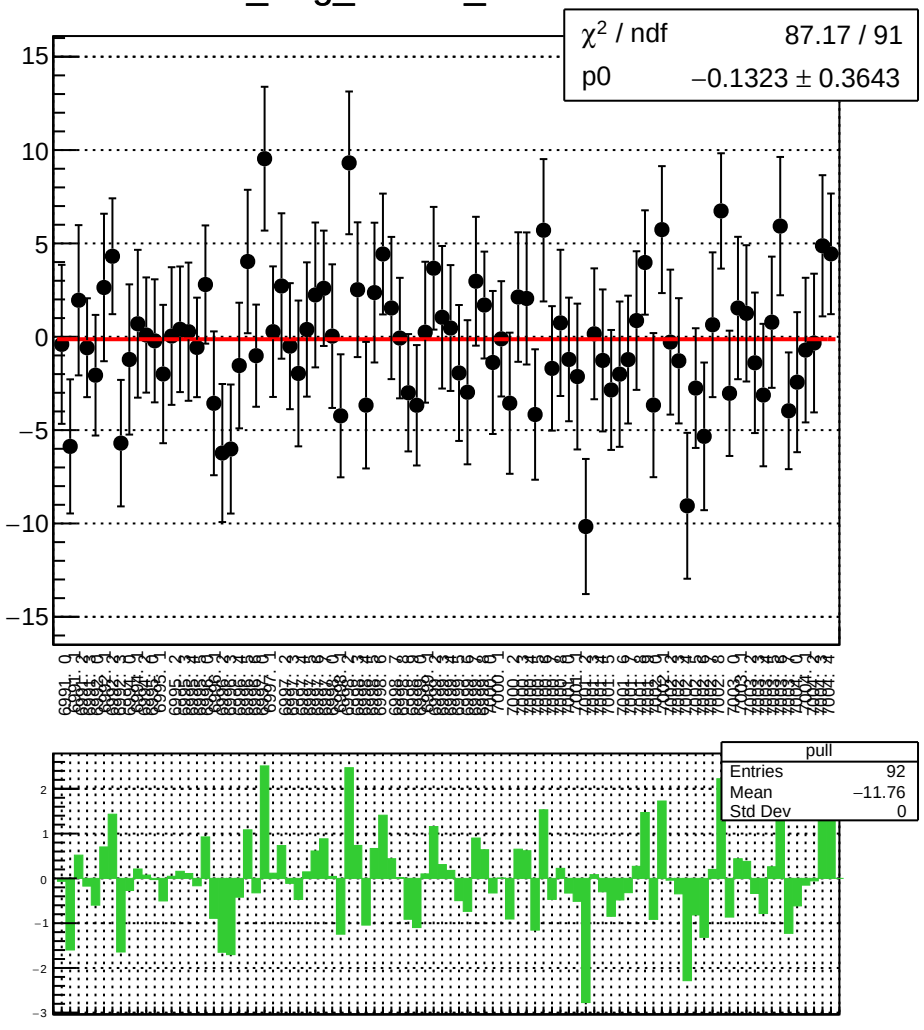

pull1D
Entries 92
Mean −0.001397
Std Dev 0.9745
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

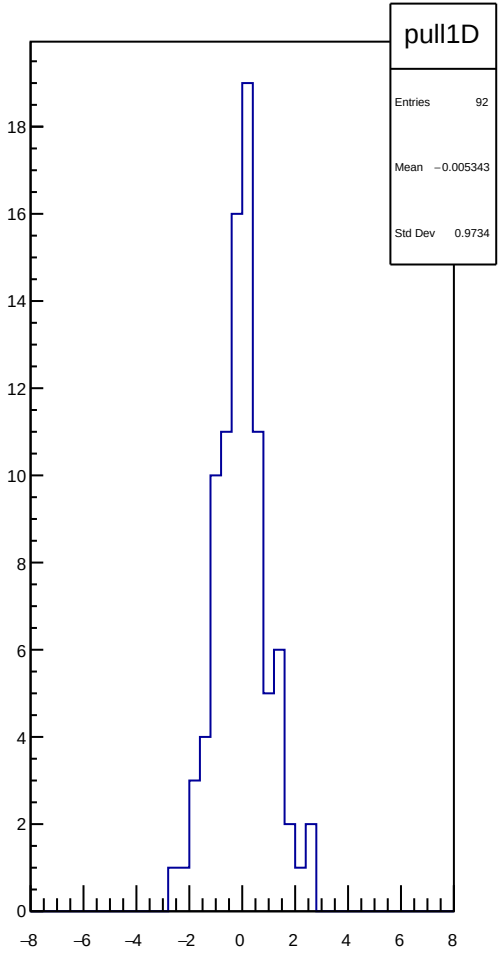

diff_targ_positionY_rms vs run
χ² / ndf 4601 / 91
p0 5703 ± 4.298
6600
6400
6200
6000
5800
5600
5400
5200
5000

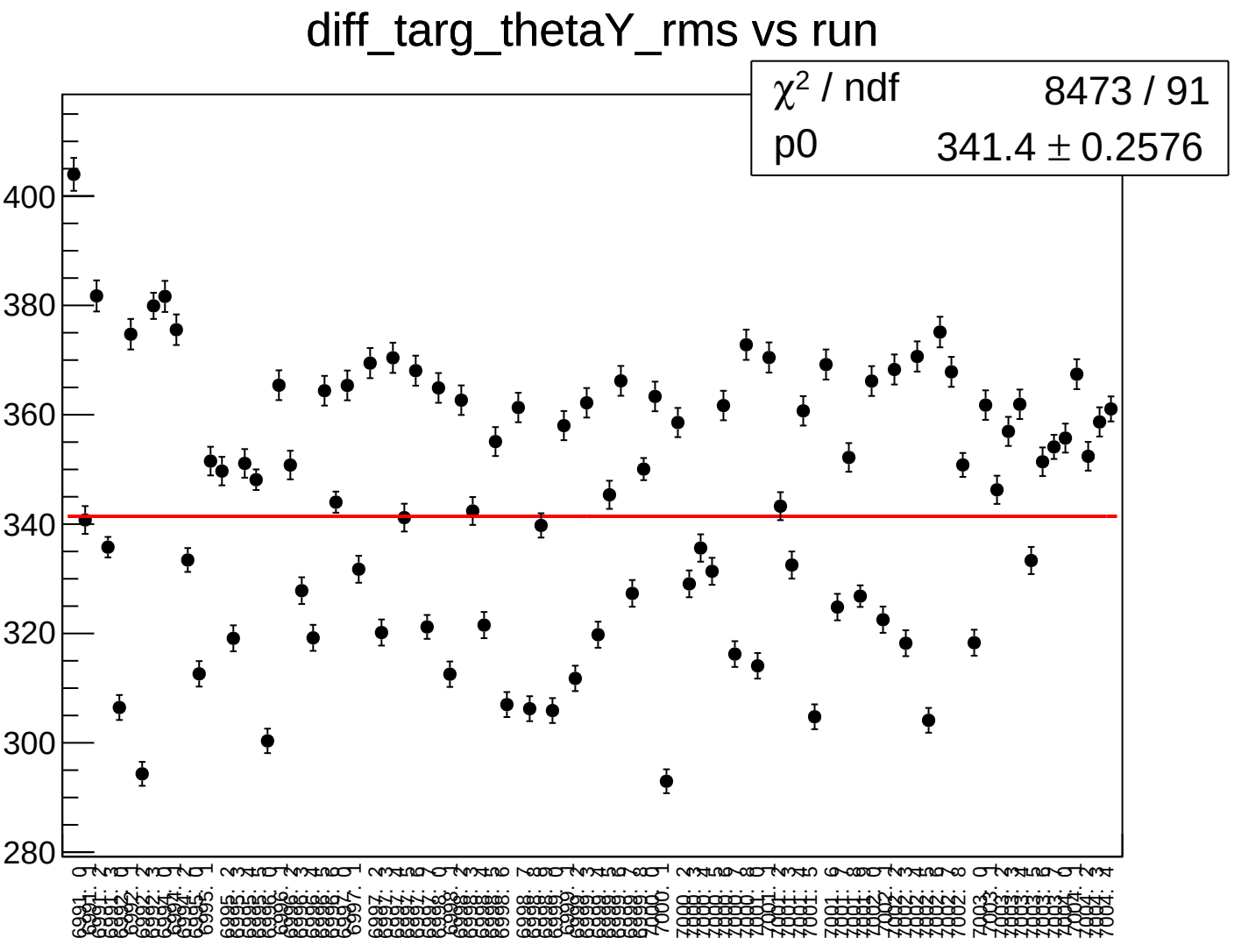

diff_targ_thetaX_mean vs run
χ² / ndf 85.19 / 91
p0 0.3363 ± 0.2006
pull
Entries 92
Mean −68.61
Std Dev 0

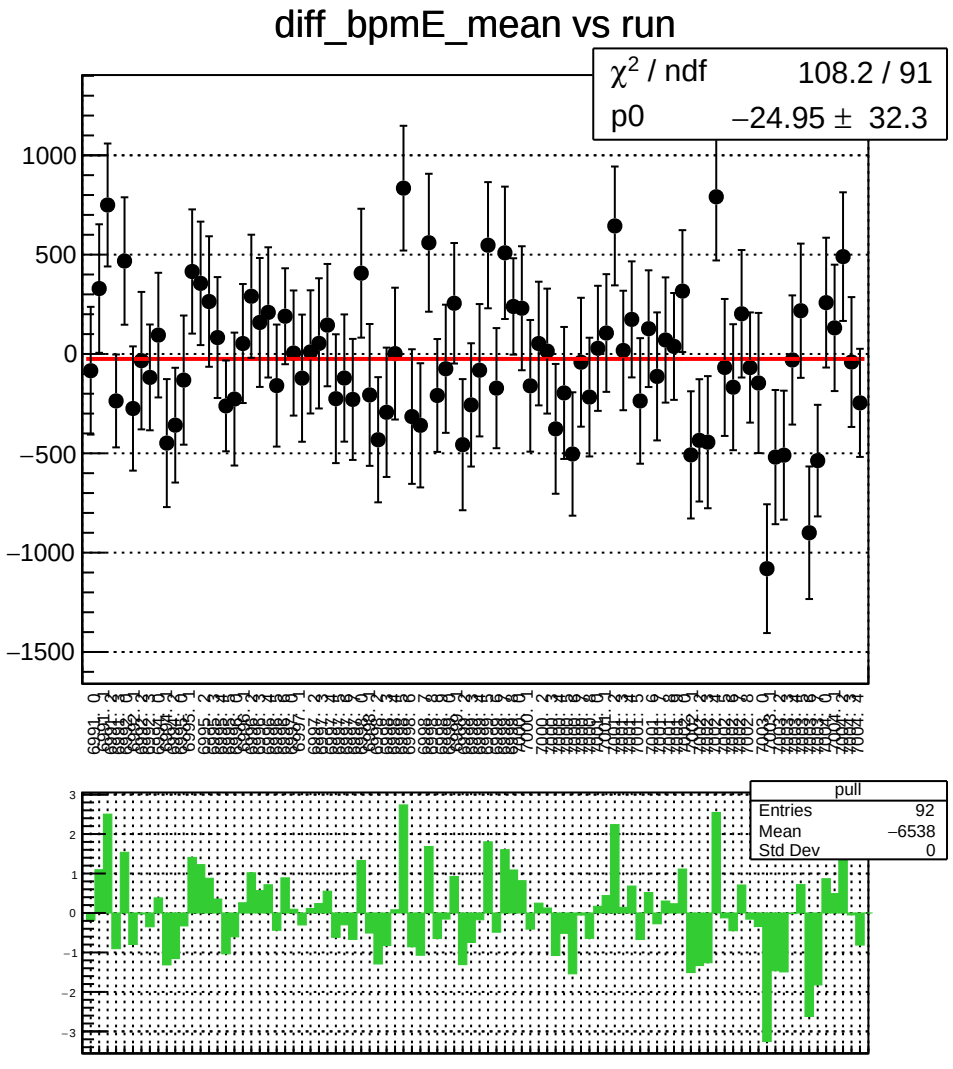

pull1D
Entries 92
Mean −0.00899
Std Dev 0.9623

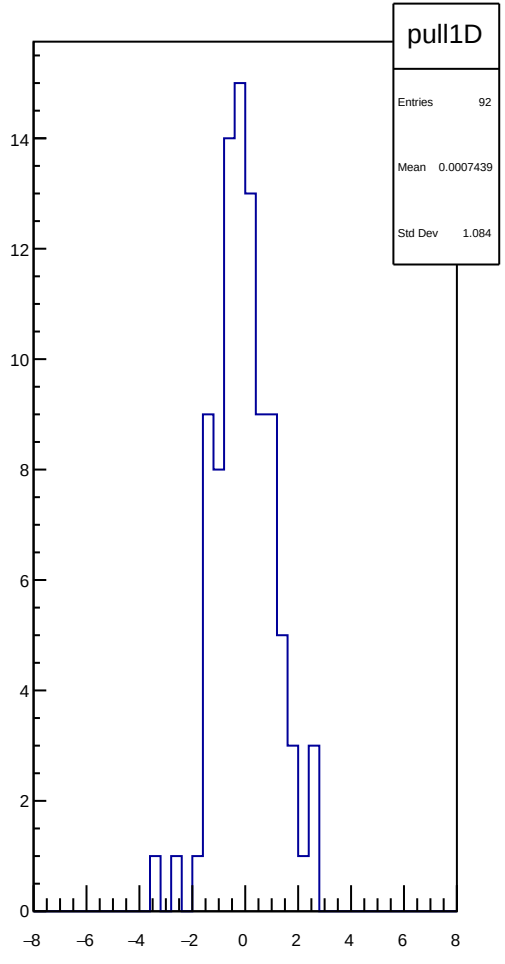

diff_targ_thetaX_rms vs run
χ² / ndf 2120 / 91
p0 188.3 ± 0.1418
205
200
195
190
185
180
175
170

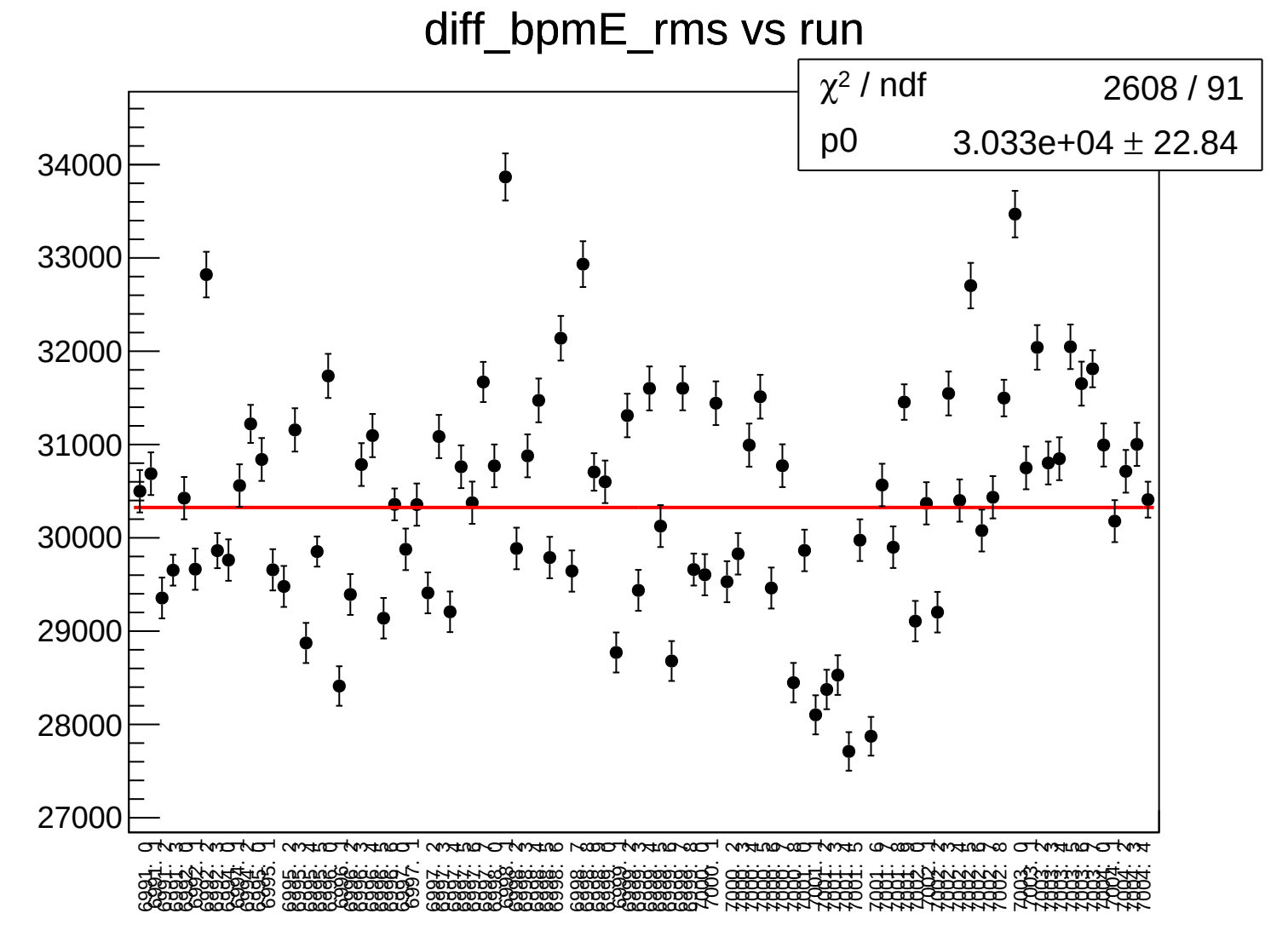

diff_targ_thetaY_mean vs run
χ² / ndf 87.17 / 91
p0 −0.1323 ± 0.3643
pull
Entries 92
Mean −11.76
Std Dev 0

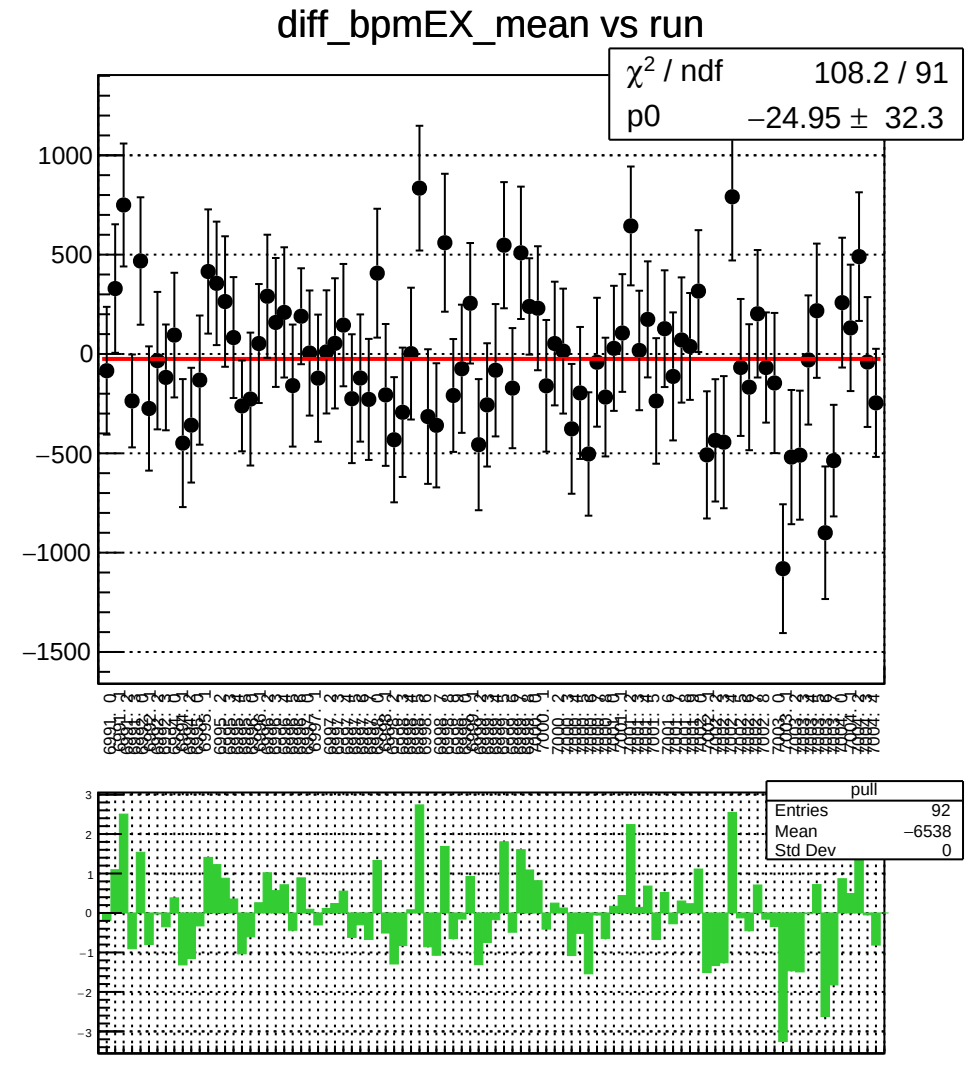

pull1D
Entries 92
Mean −0.005343
Std Dev 0.9734

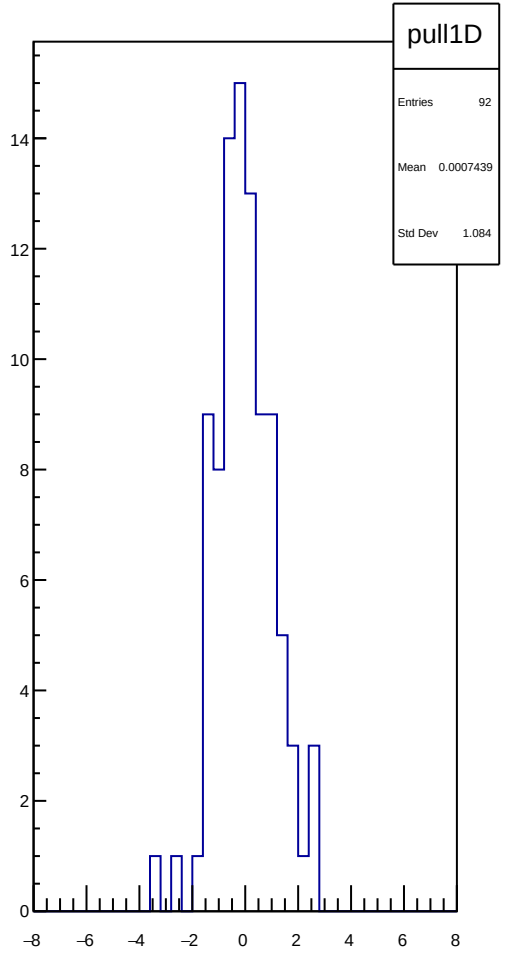

diff_targ_thetaY_rms vs run
χ² / ndf 8473 / 91
p0 341.4 ± 0.2576
400
380
360
340
320
300
280

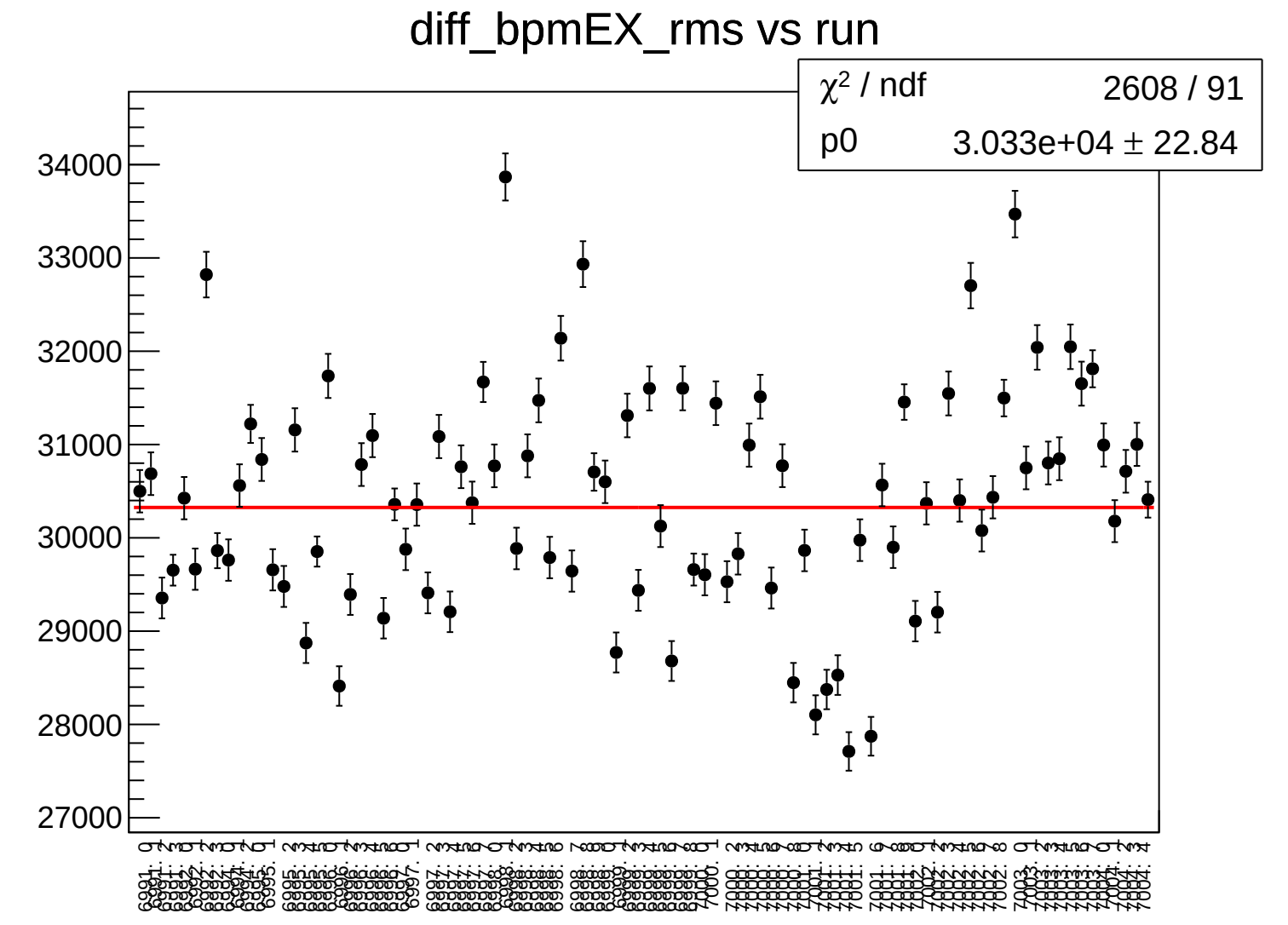

diff_bpmE_mean vs run
χ² / ndf 108.2 / 91
p0 −24.95 ± 32.3
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −6538
Std Dev 0
3
2
1
0
−1
−2
−3

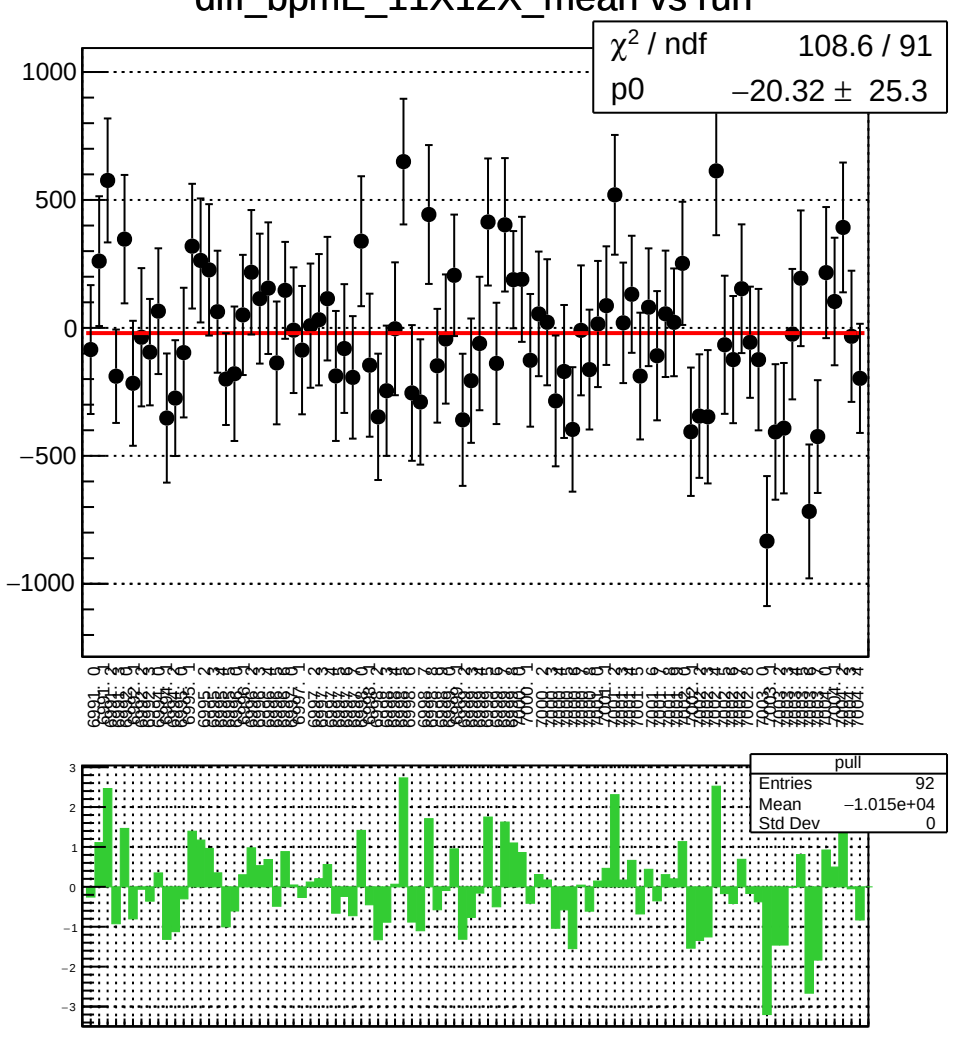

pull1D
Entries 92
Mean 0.0007439
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

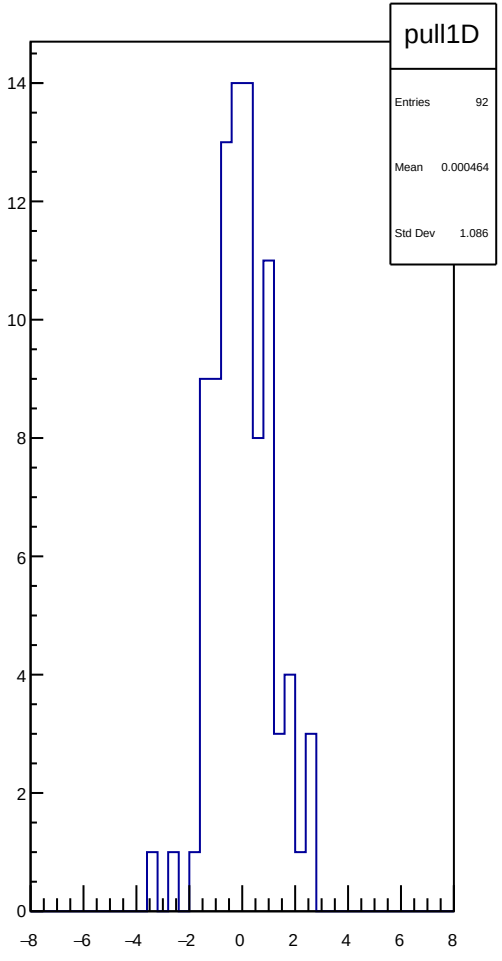

diff_bpmE_rms vs run
χ² / ndf 2608 / 91
p0 3.033e+04 ± 22.84
34000
33000
32000
31000
30000
29000
28000
27000

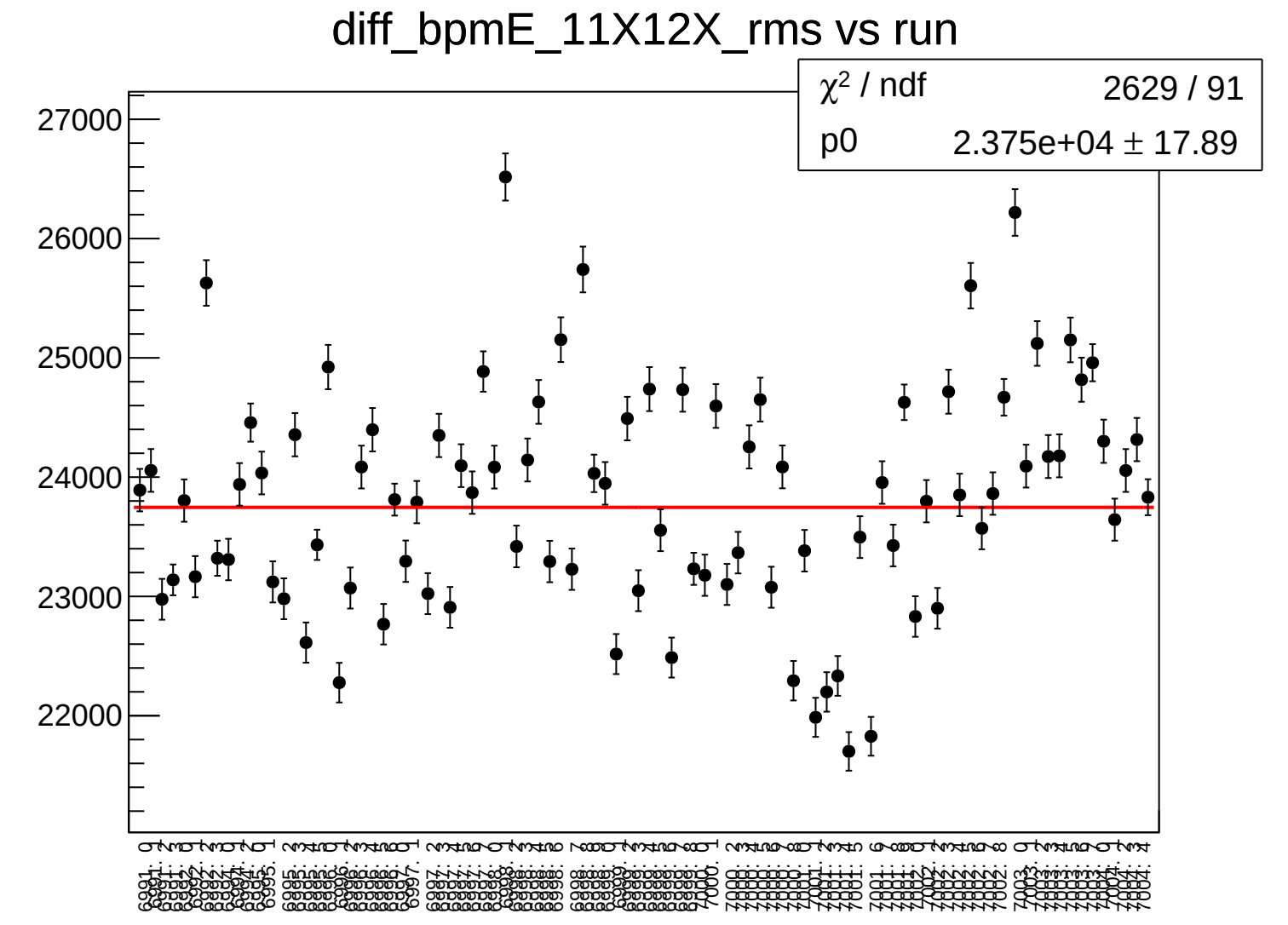

diff_bpmEX_mean vs run
χ^2 / ndf 108.2 / 91
p0 −24.95 ± 32.3
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −6538
Std Dev 0
3
2
1
0
−1
−2
−3

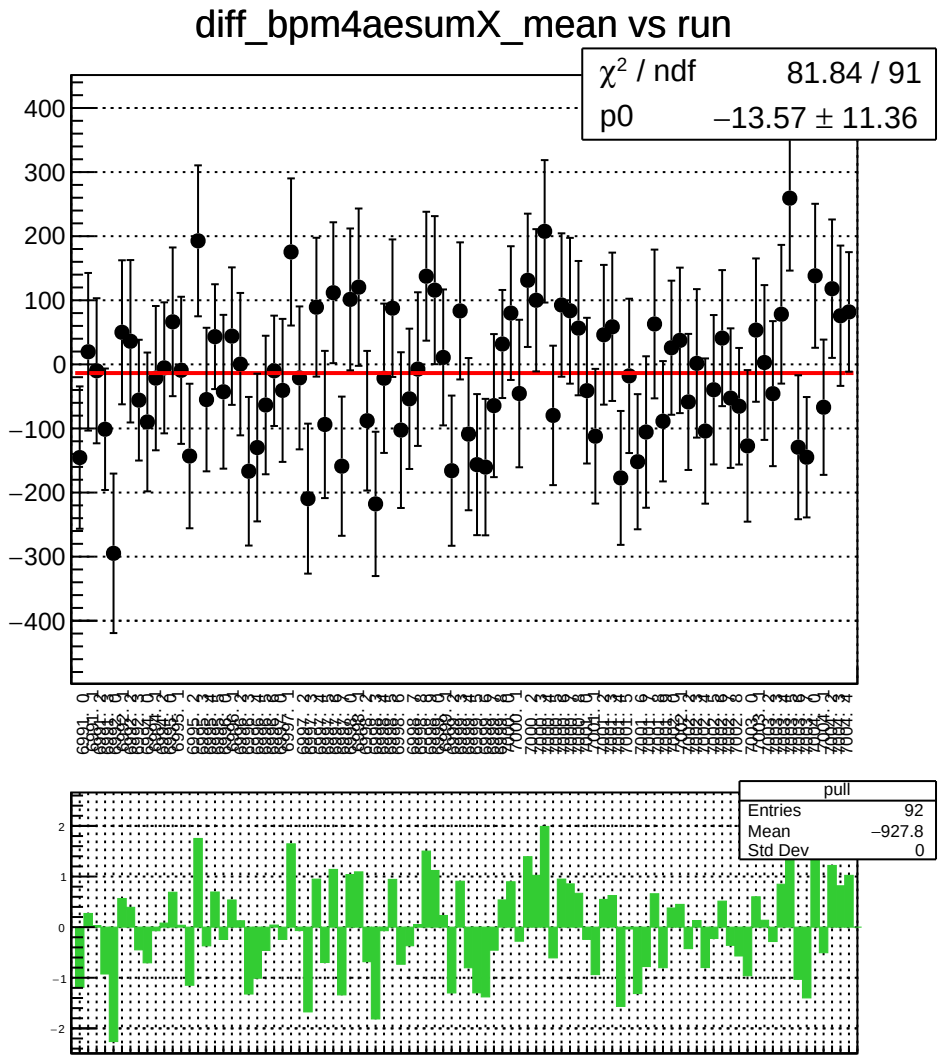

pull1D
Entries 92
Mean 0.0007439
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

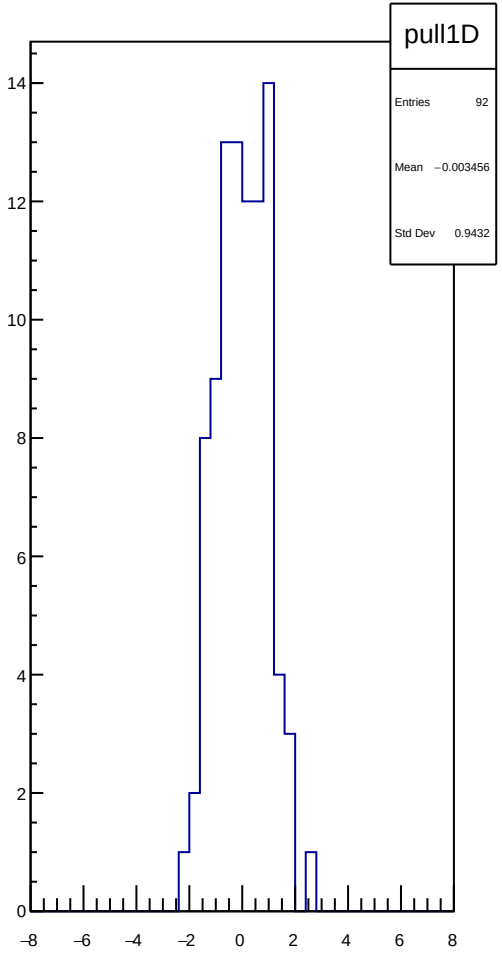

diff_bpmEX_rms vs run
χ² / ndf 2608 / 91
p0 3.033e+04 ± 22.84
34000
33000
32000
31000
30000
29000
28000
27000

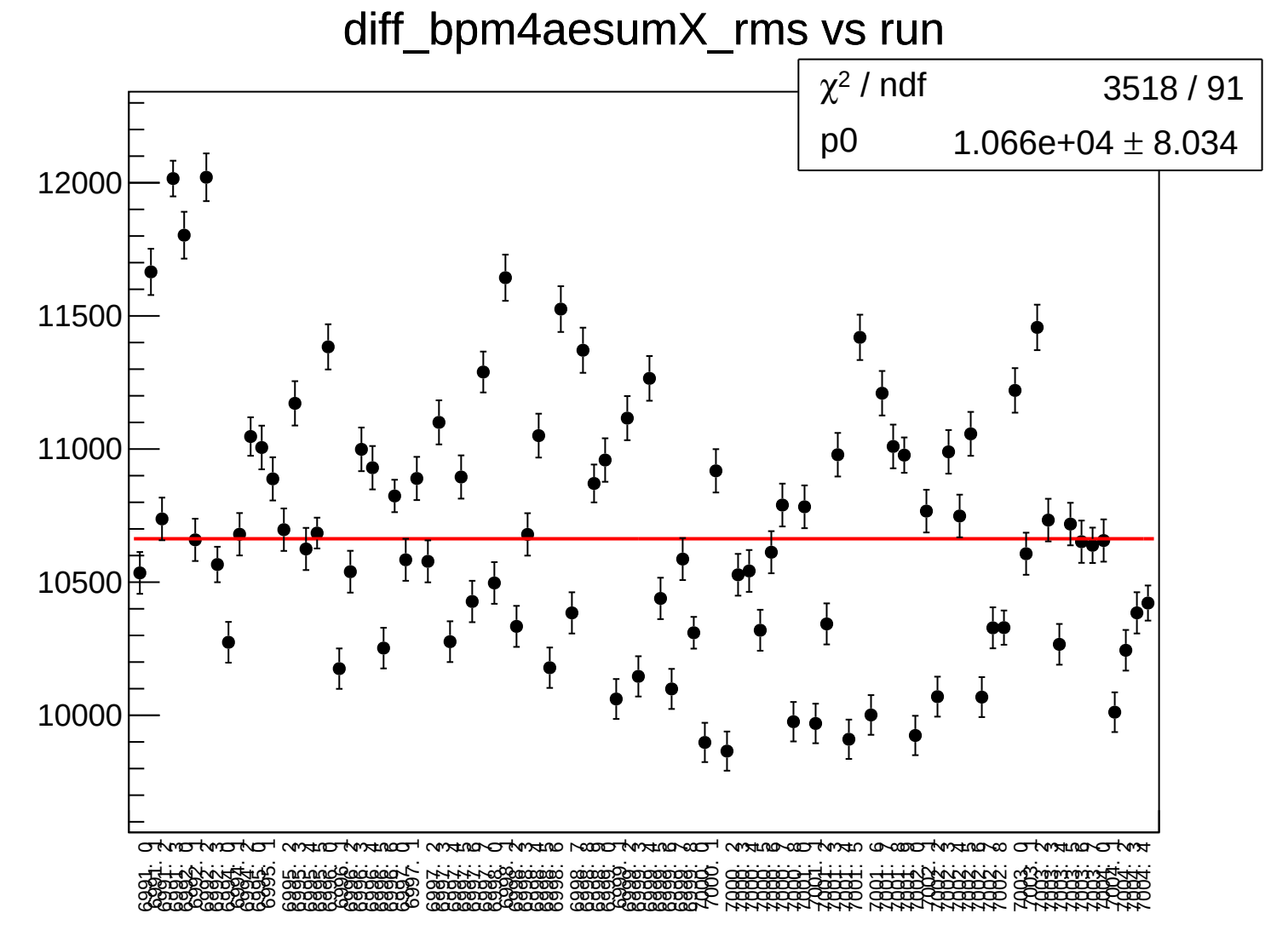

diff_bpmE_11X12X_mean vs run
χ² / ndf 108.6 / 91
p0 −20.32 ± 25.3
1000
500
0
−500
−1000
pull
Entries 92
Mean −1.015e+04
Std Dev 0
3
2
1
0
−1
−2
−3

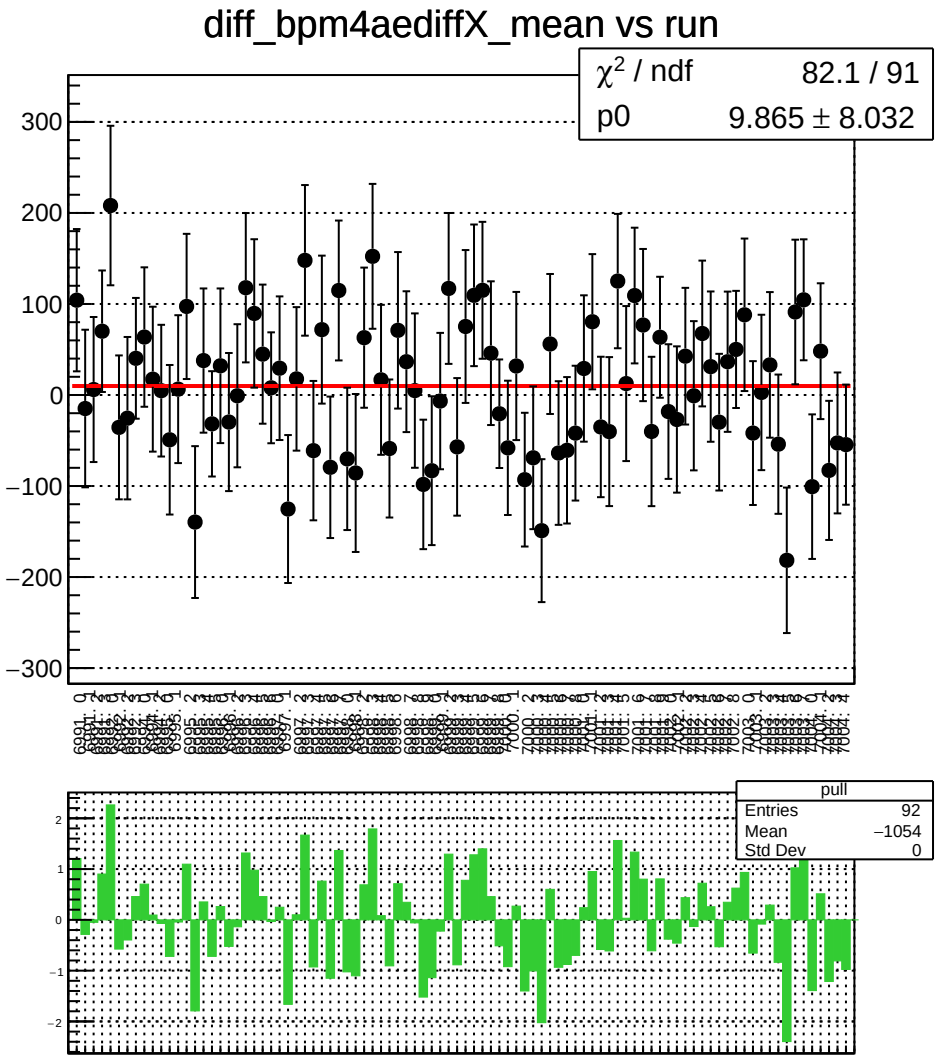

pull1D
Entries 92
Mean 0.000464
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

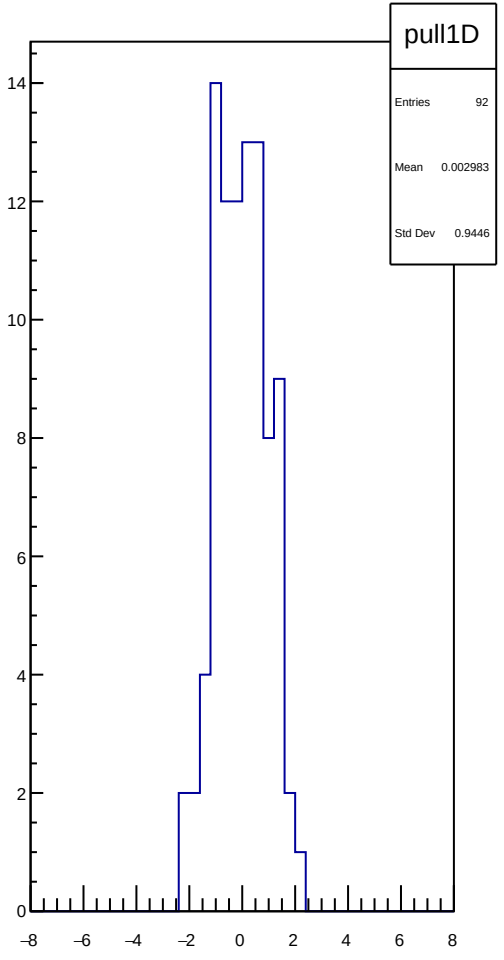

diff_bpmE_11X12X_rms vs run
χ² / ndf 2629 / 91
p0 2.375e+04 ± 17.89
27000
26000
25000
24000
23000
22000

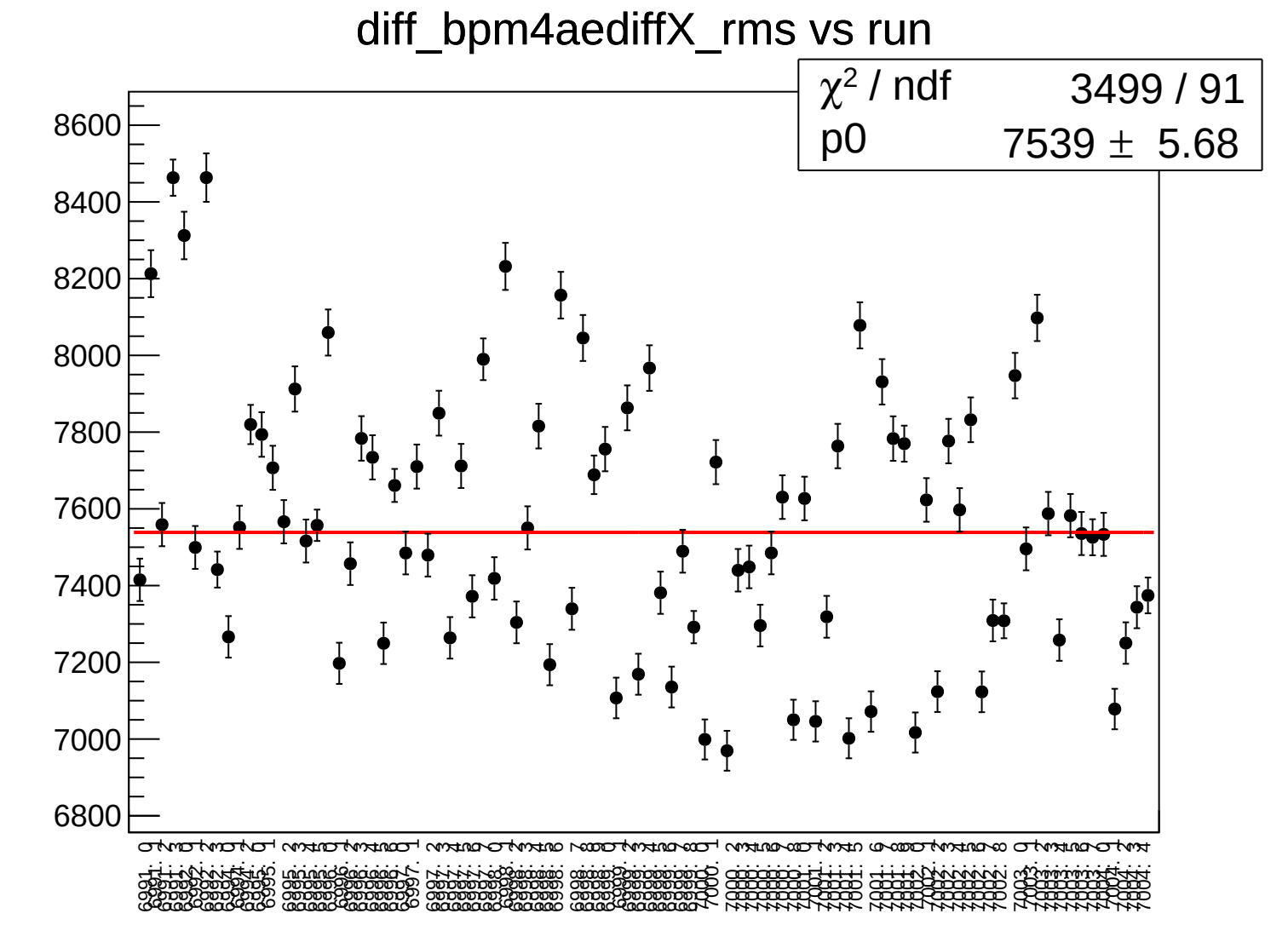

diff_bpm4aesumX_mean vs run
χ² / ndf 81.84 / 91
p0 −13.57 ± 11.36
pull
Entries 92
Mean −927.8
Std Dev 0

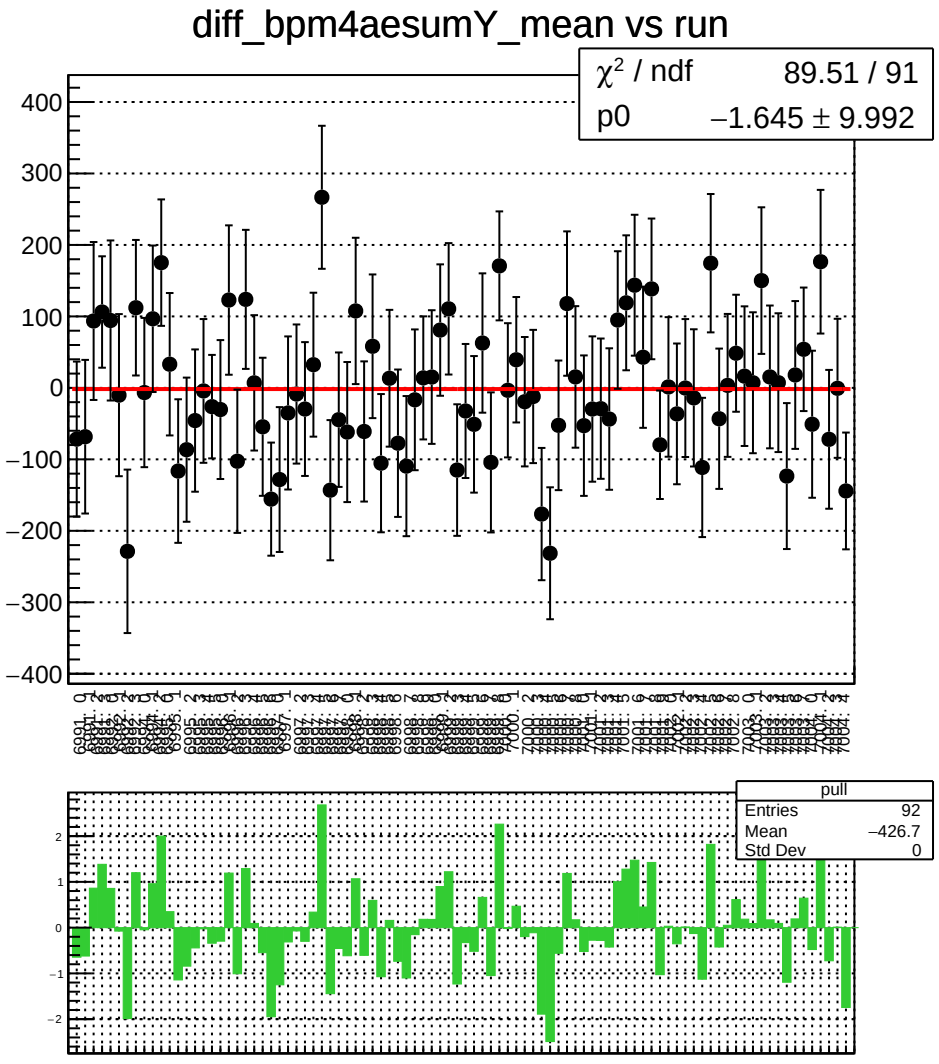

pull1D
Entries 92
Mean −0.003456
Std Dev 0.9432

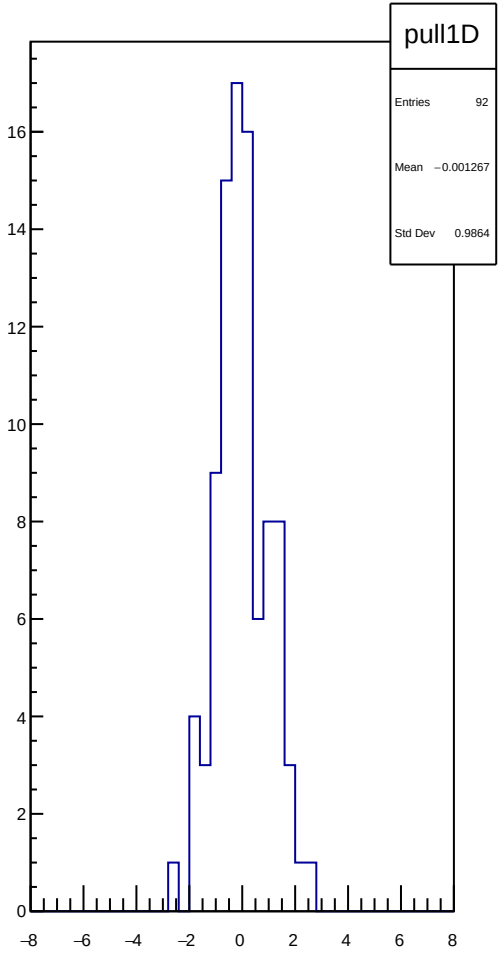

diff_bpm4aesumX_rms vs run
χ² / ndf 3518 / 91
p0 1.066e+04 ± 8.034
12000
11500
11000
10500
10000

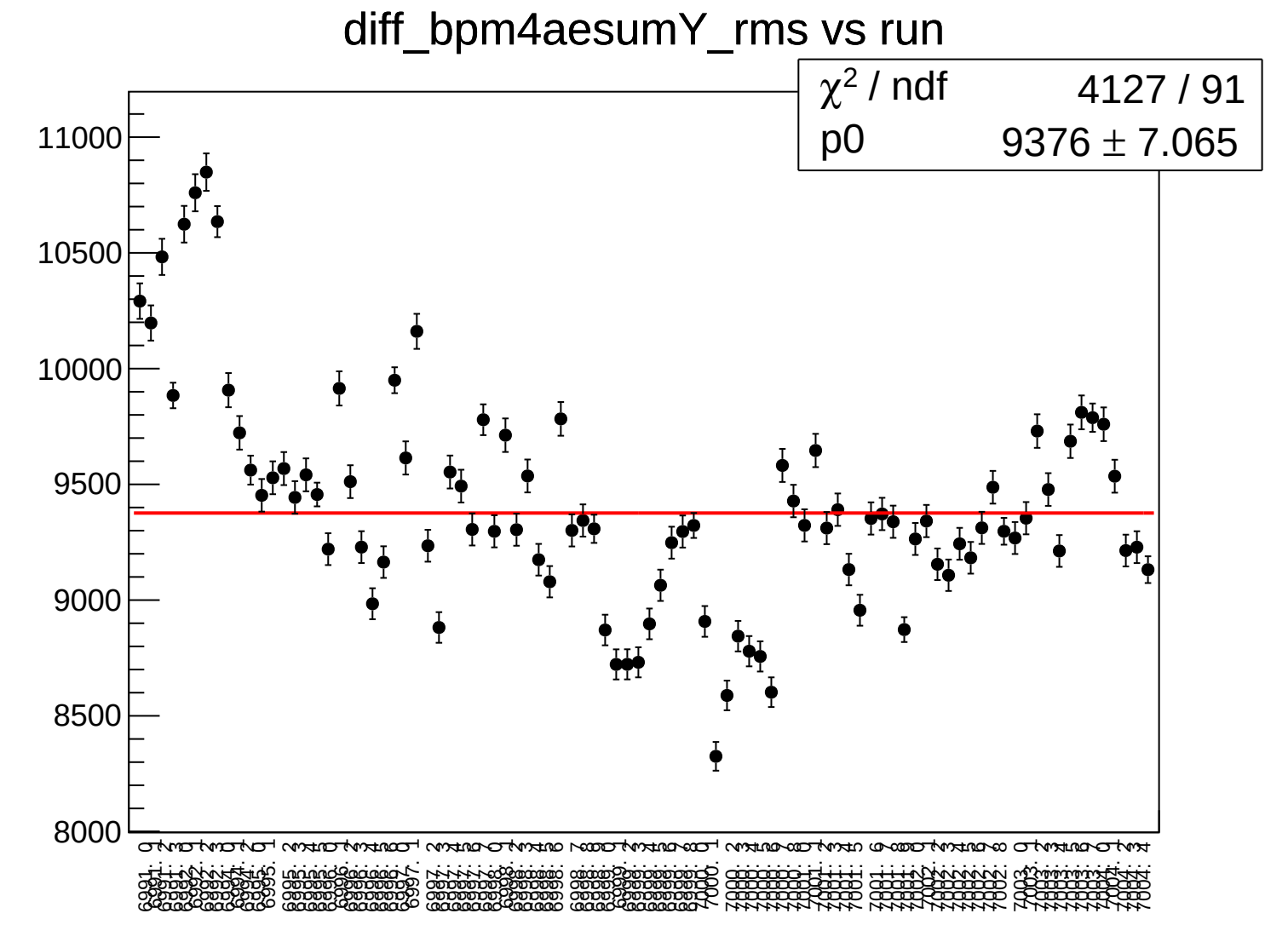

diff_bpm4aediffX_mean vs run
χ² / ndf 82.1 / 91
p0 9.865 ± 8.032
pull
Entries 92
Mean −1054
Std Dev 0

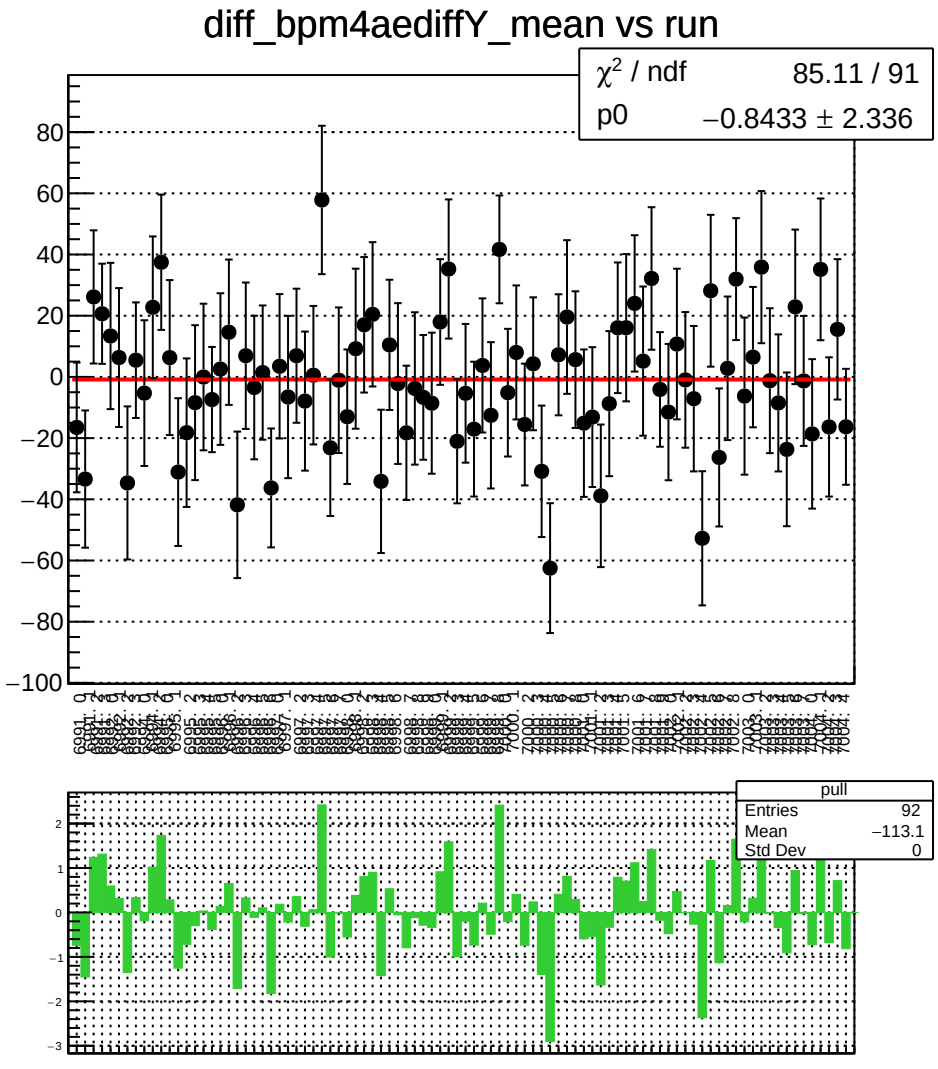

pull1D
Entries 92
Mean 0.002983
Std Dev 0.9446

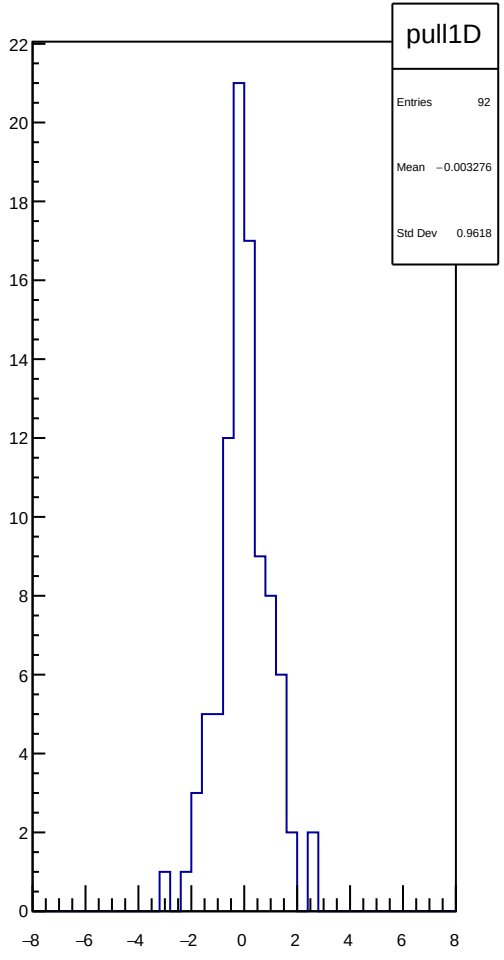

diff_bpm4aediffX_rms vs run
χ² / ndf 3499 / 91
p0 7539 ± 5.68
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

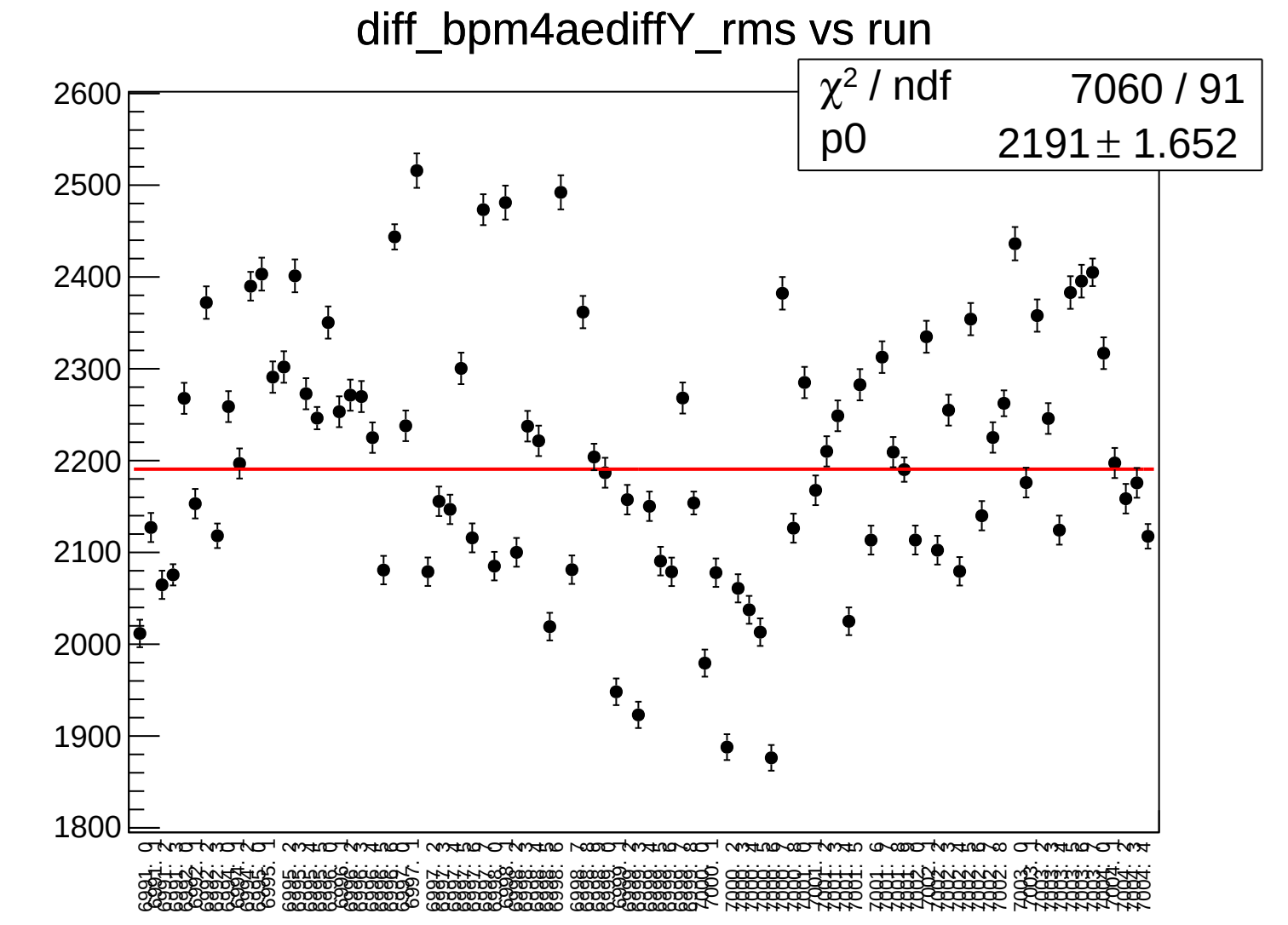

diff_bpm4aesumY_mean vs run
χ² / ndf 89.51 / 91
p0 −1.645 ± 9.992
pull
Entries 92
Mean −426.7
Std Dev 0

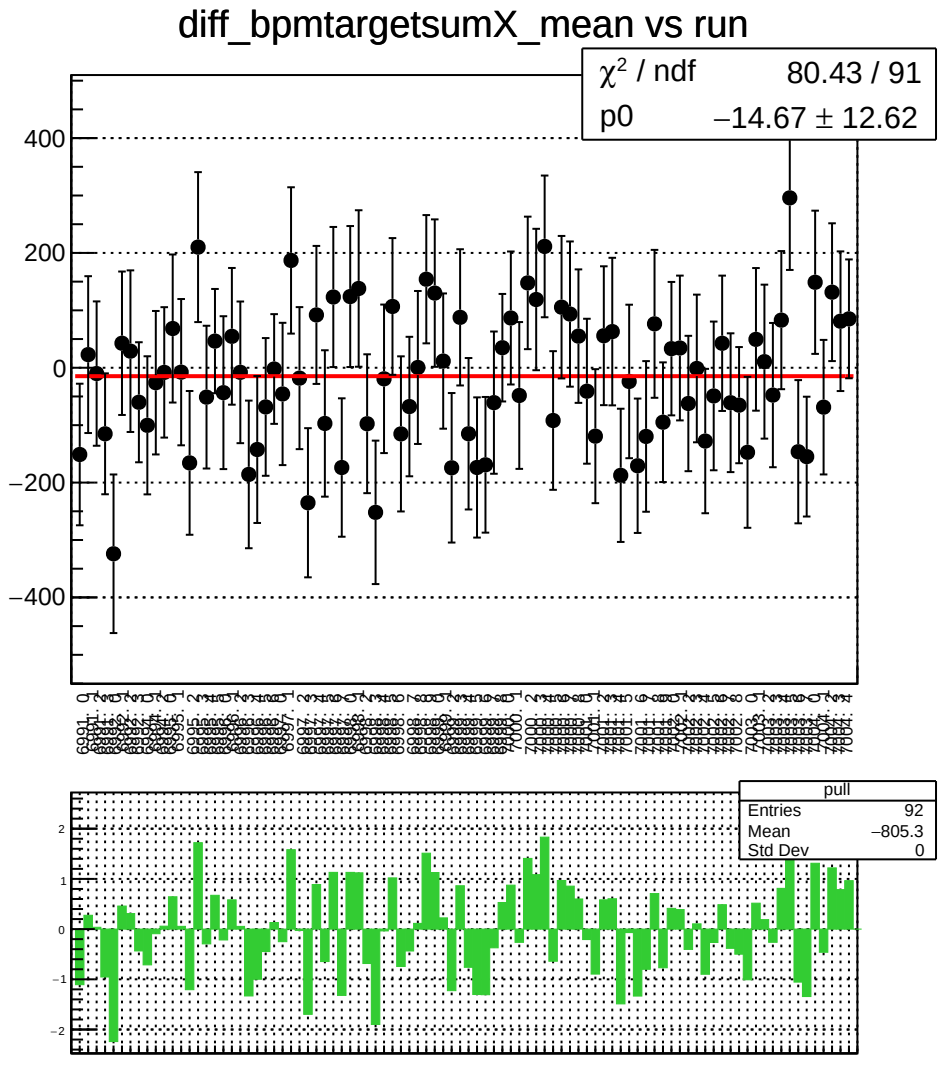

pull1D
Entries 92
Mean −0.001267
Std Dev 0.9864

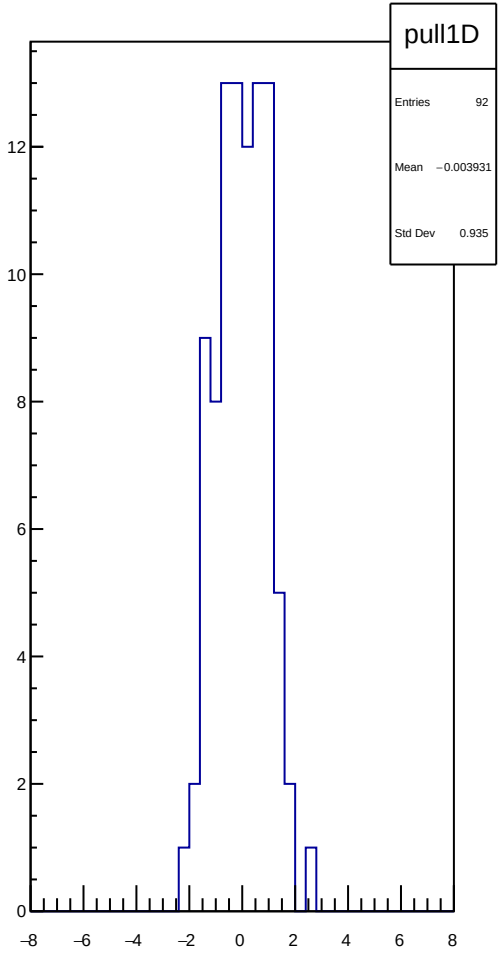

diff_bpm4aesumY_rms vs run
χ² / ndf 4127 / 91
p0 9376 ± 7.065
11000
10500
10000
9500
9000
8500
8000

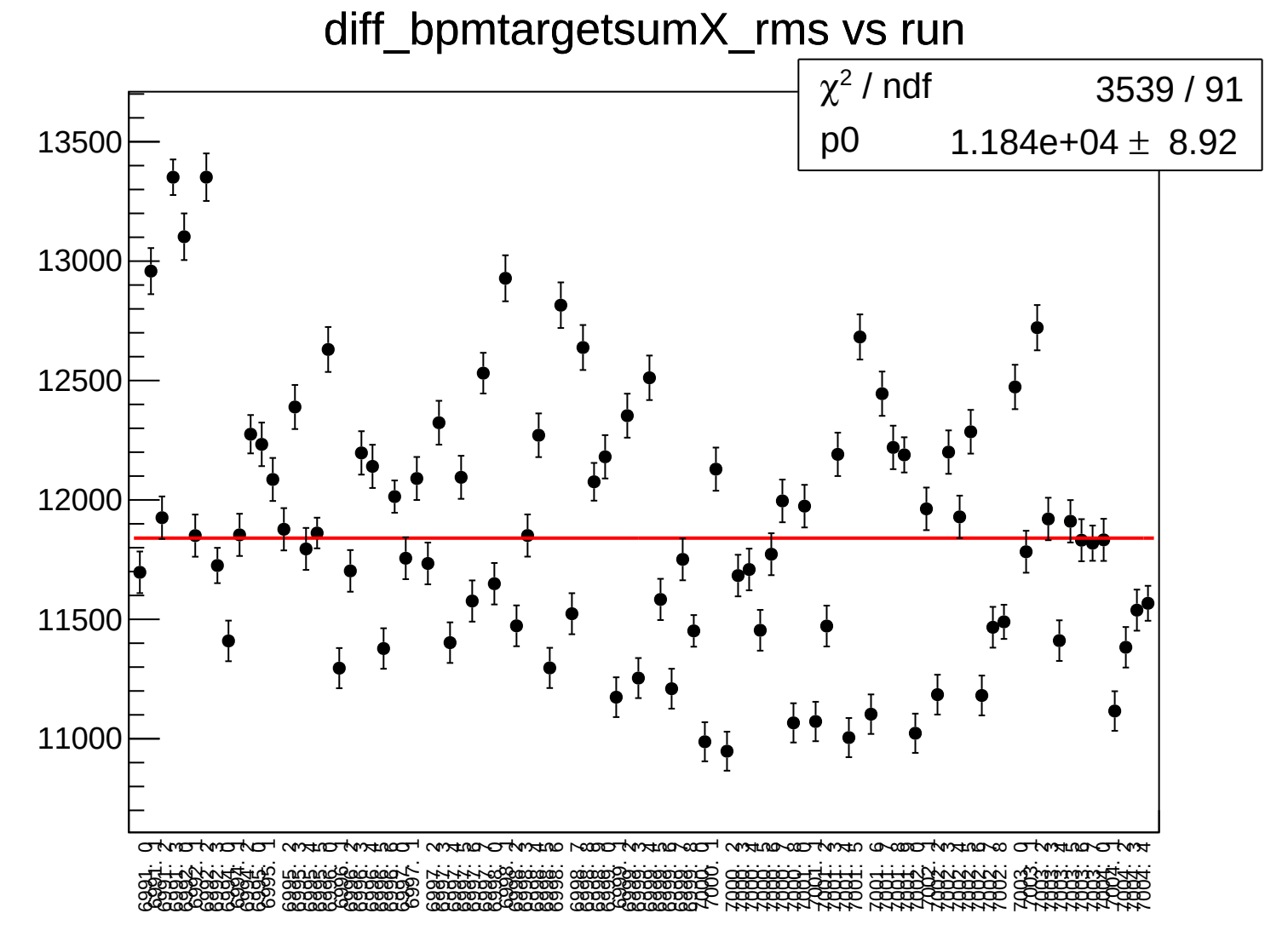

diff_bpm4aediffY_mean vs run
χ² / ndf 85.11 / 91
p0 −0.8433 ± 2.336
pull
Entries 92
Mean −113.1
Std Dev 0

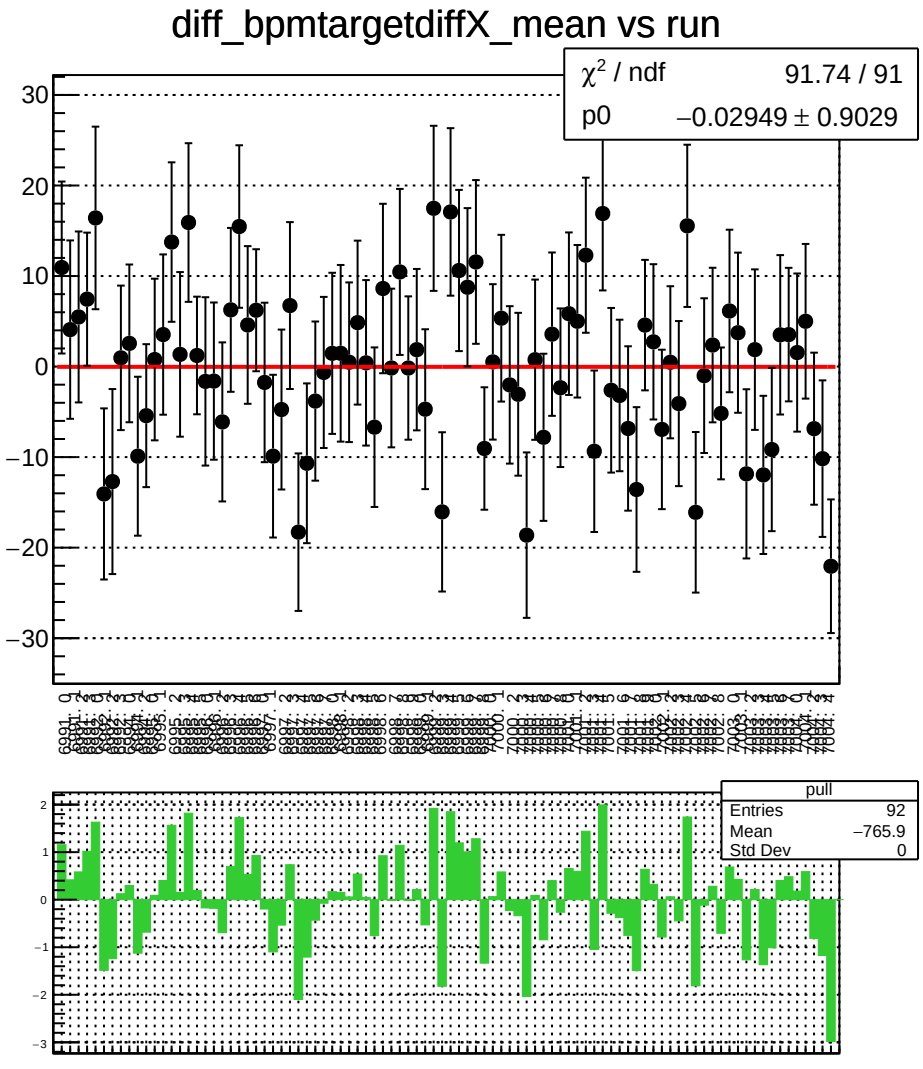

pull1D
Entries 92
Mean −0.003276
Std Dev 0.9618

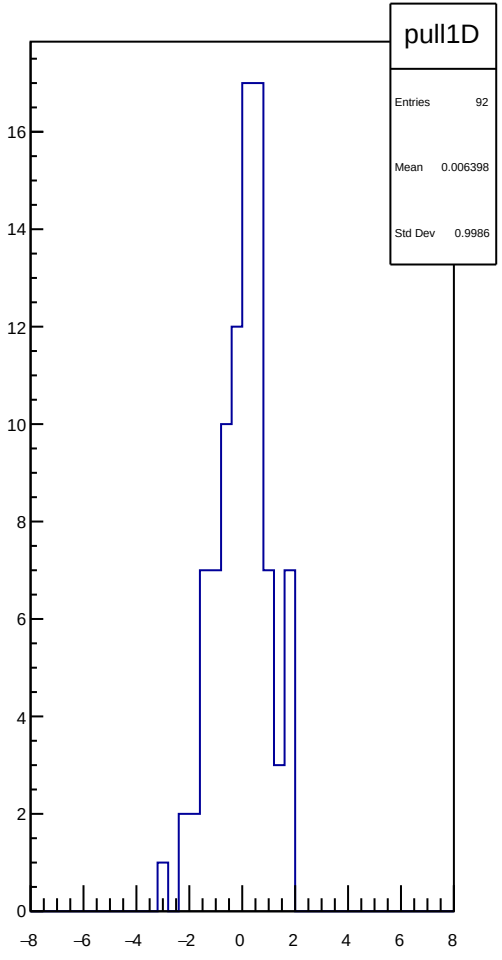

diff_bpm4aediffY_rms vs run
χ² / ndf 7060 / 91
p0 2191 ± 1.652
2600
2500
2400
2300
2200
2100
2000
1900
1800

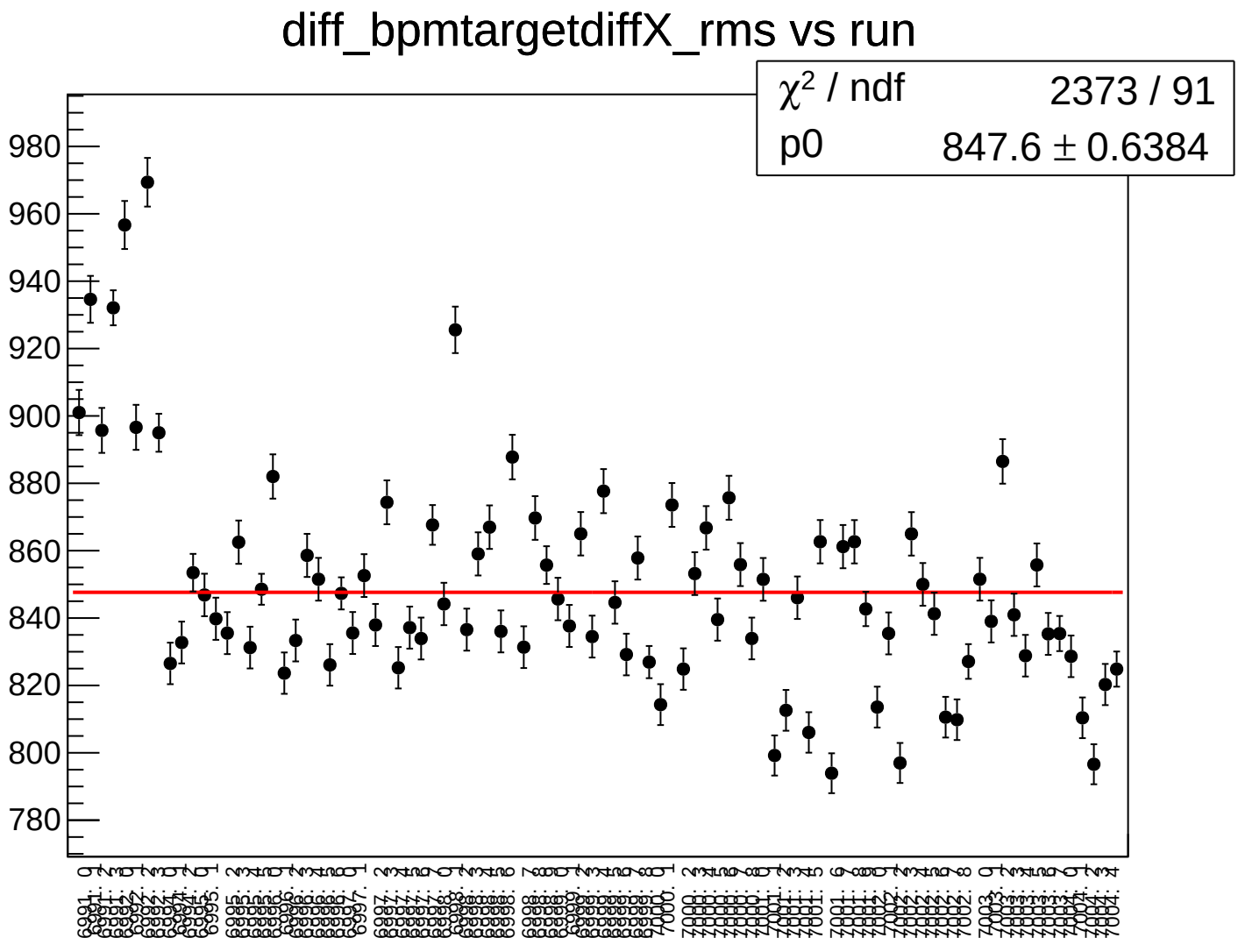

diff_bpmtargetsumX_mean vs run
χ² / ndf 80.43 / 91
p0 −14.67 ± 12.62
400
200
0
−200
−400
pull
Entries 92
Mean −805.3
Std Dev 0
2
1
0
−1
−2

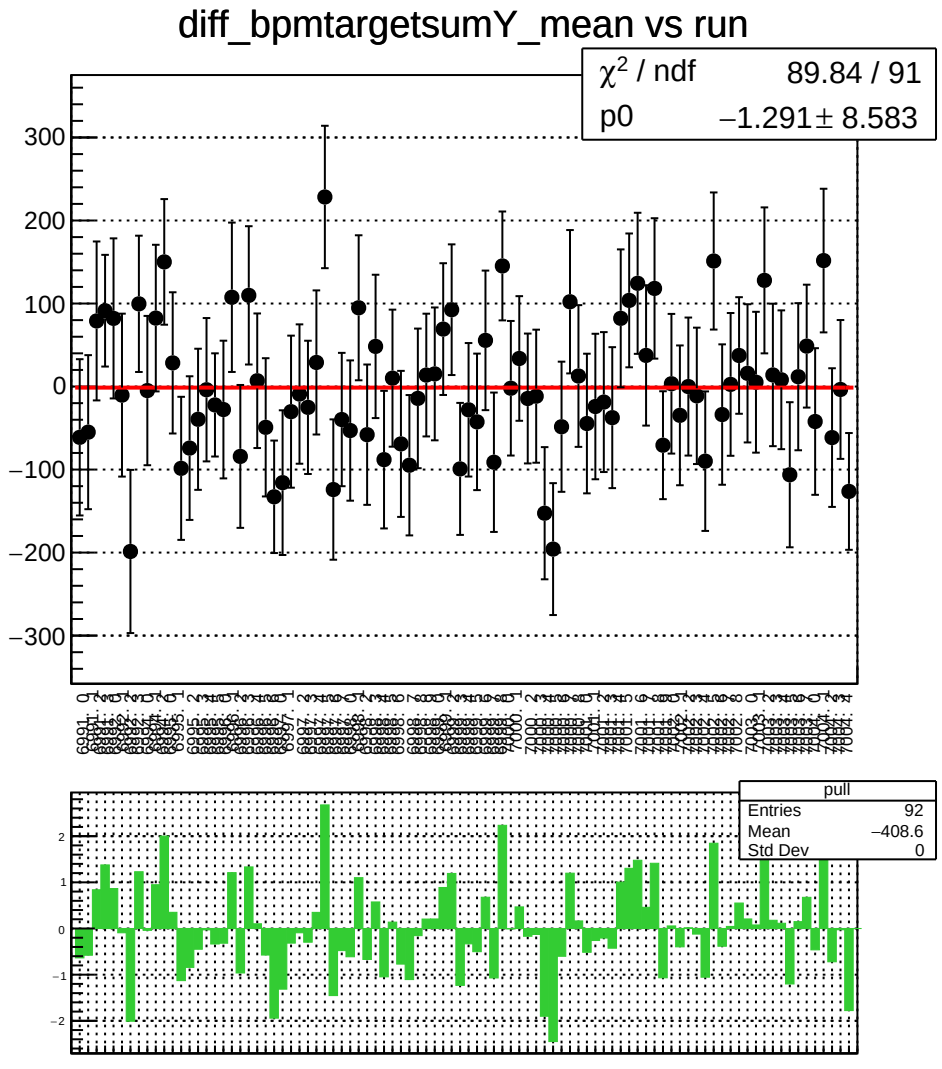

pull1D
Entries 92
Mean −0.003931
Std Dev 0.935
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

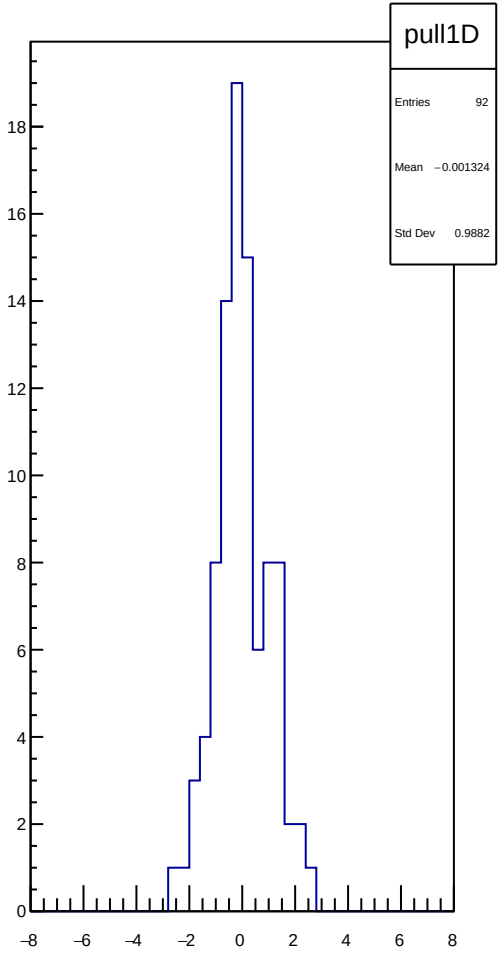

diff_bpmtargetsumX_rms vs run
χ² / ndf 3539 / 91
p0 1.184e+04 ± 8.92
13500
13000
12500
12000
11500
11000

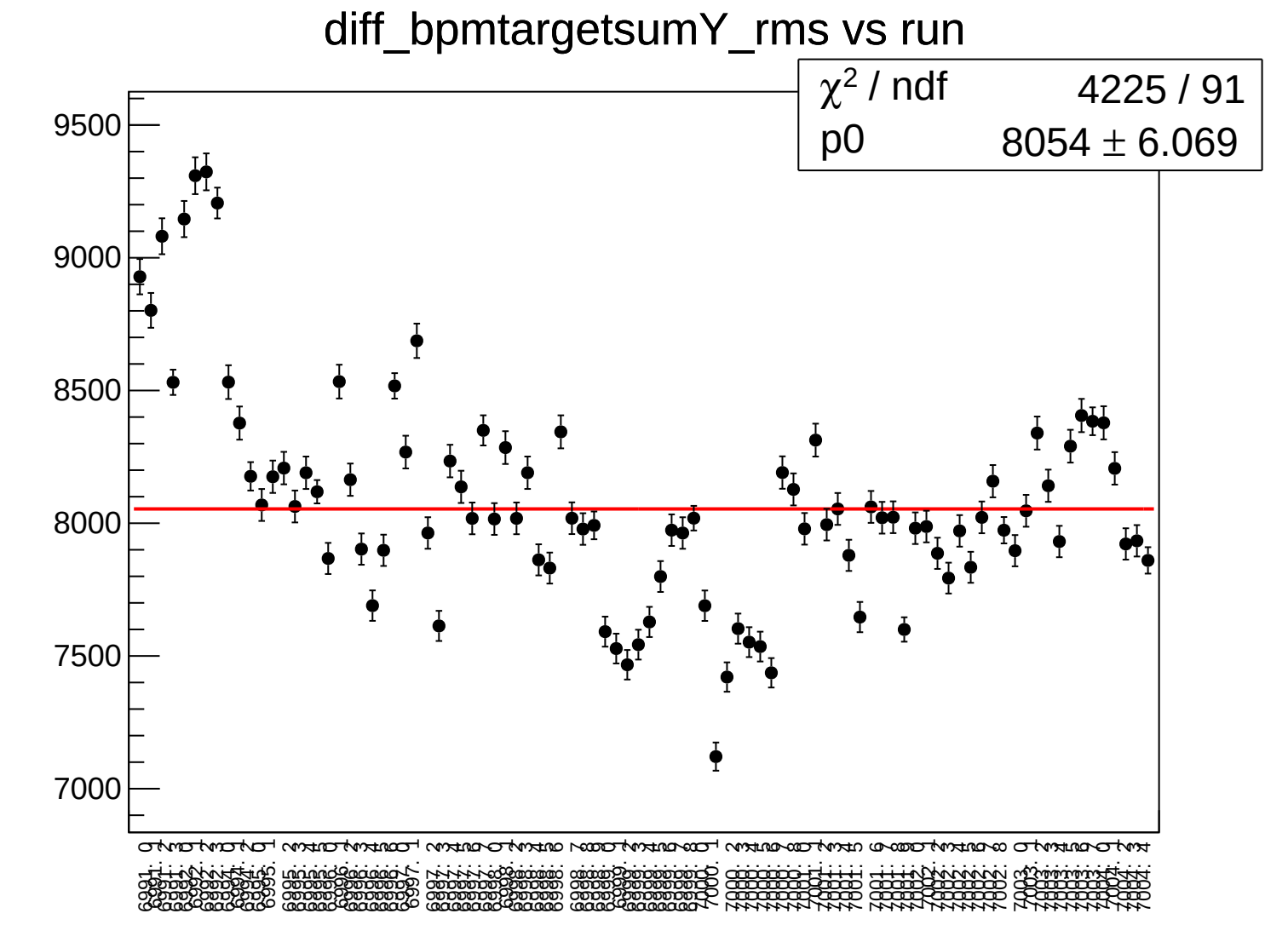

diff_bpmtargetdiffX_mean vs run
χ² / ndf 91.74 / 91
p0 −0.02949 ± 0.9029
pull
Entries 92
Mean −765.9
Std Dev 0

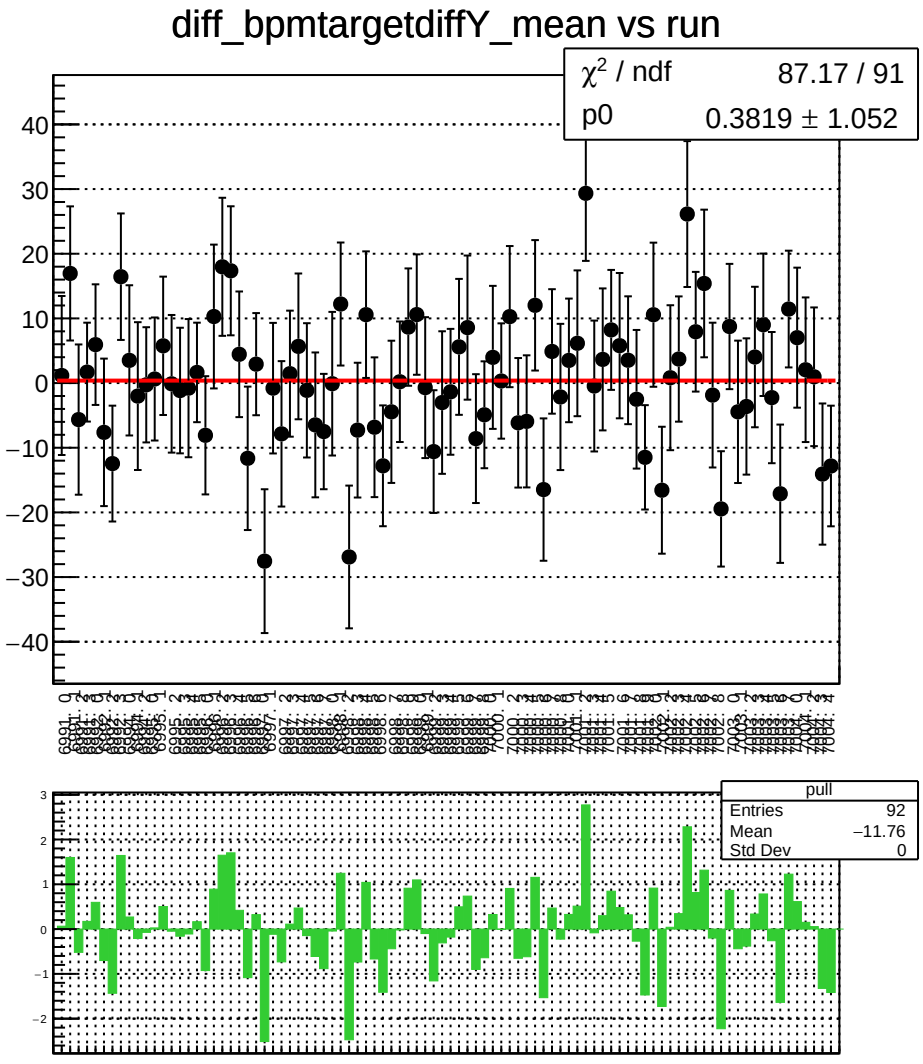

pull1D
Entries 92
Mean 0.006398
Std Dev 0.9986

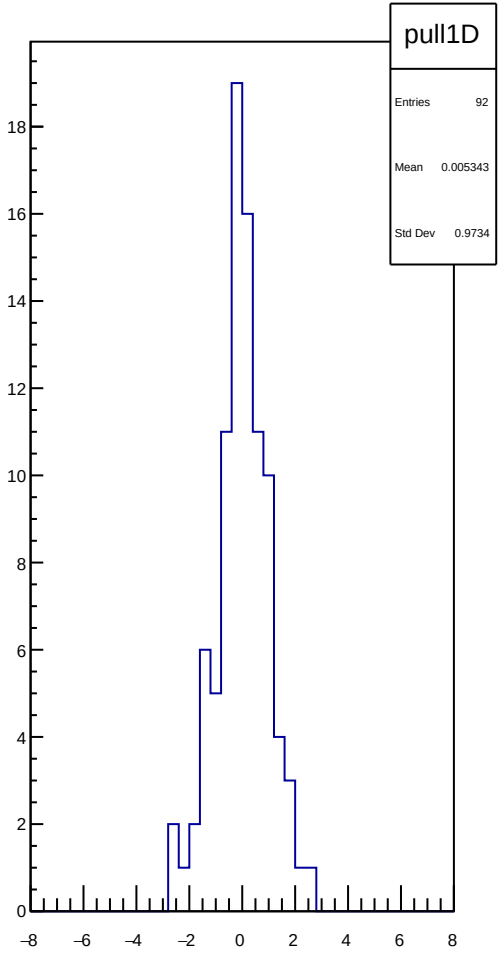

diff_bpmtargetdiffX_rms vs run
χ² / ndf 2373 / 91
p0 847.6 ± 0.6384
980
960
940
920
900
880
860
840
820
800
780

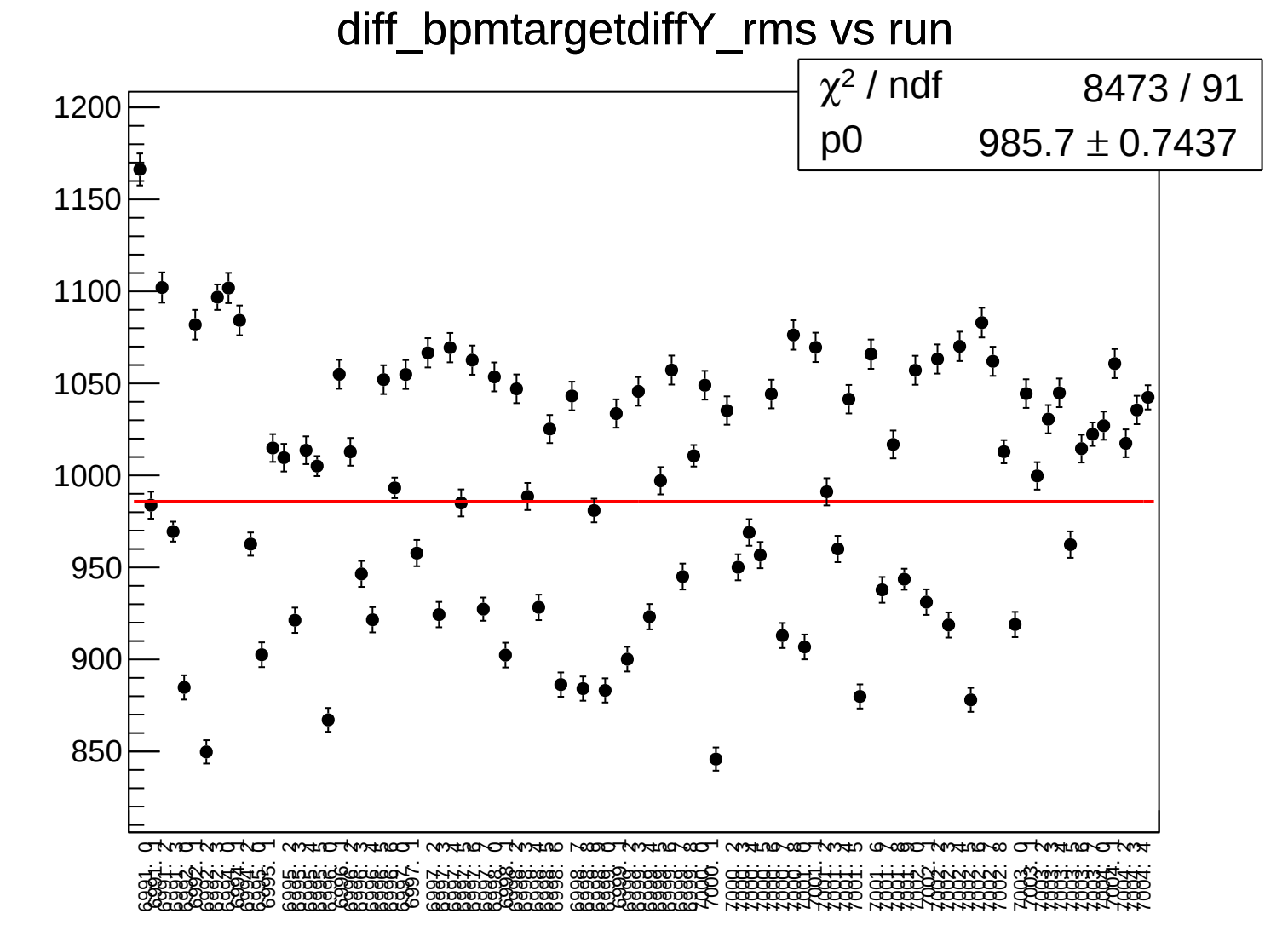

diff_bpmtargetsumY_mean vs run
χ² / ndf 89.84 / 91
p0 −1.291 ± 8.583
pull
Entries 92
Mean −408.6
Std Dev 0

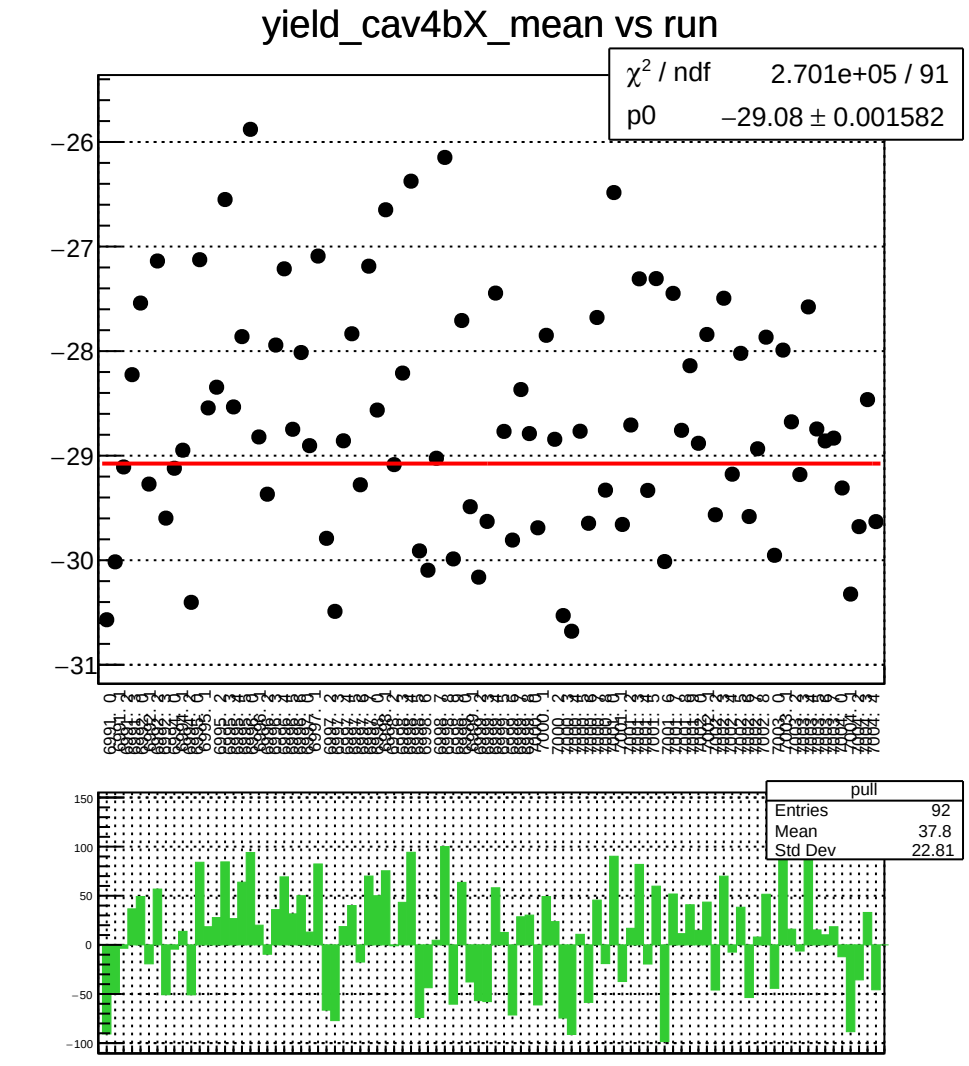

pull1D
Entries 92
Mean −0.001324
Std Dev 0.9882

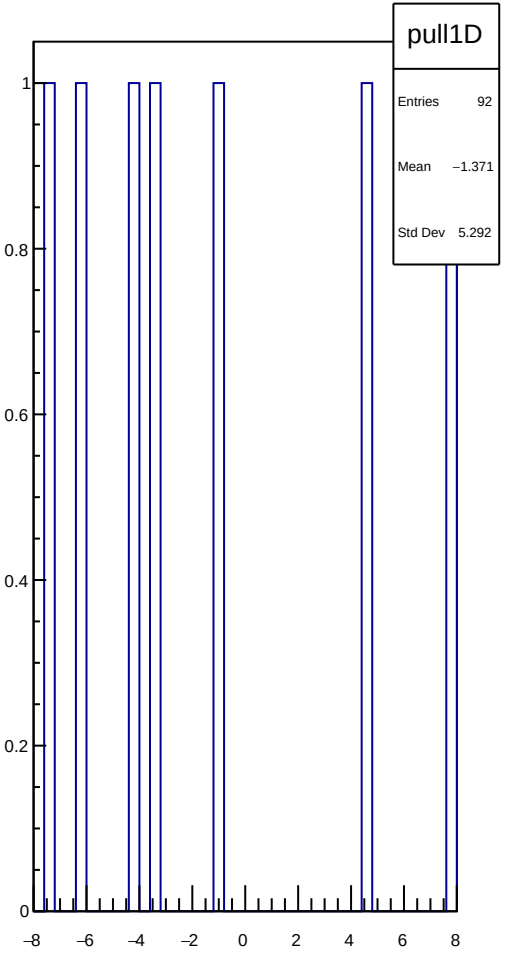

diff_bpmtargetsumY_rms vs run
χ² / ndf 4225 / 91
p0 8054 ± 6.069
9500
9000
8500
8000
7500
7000

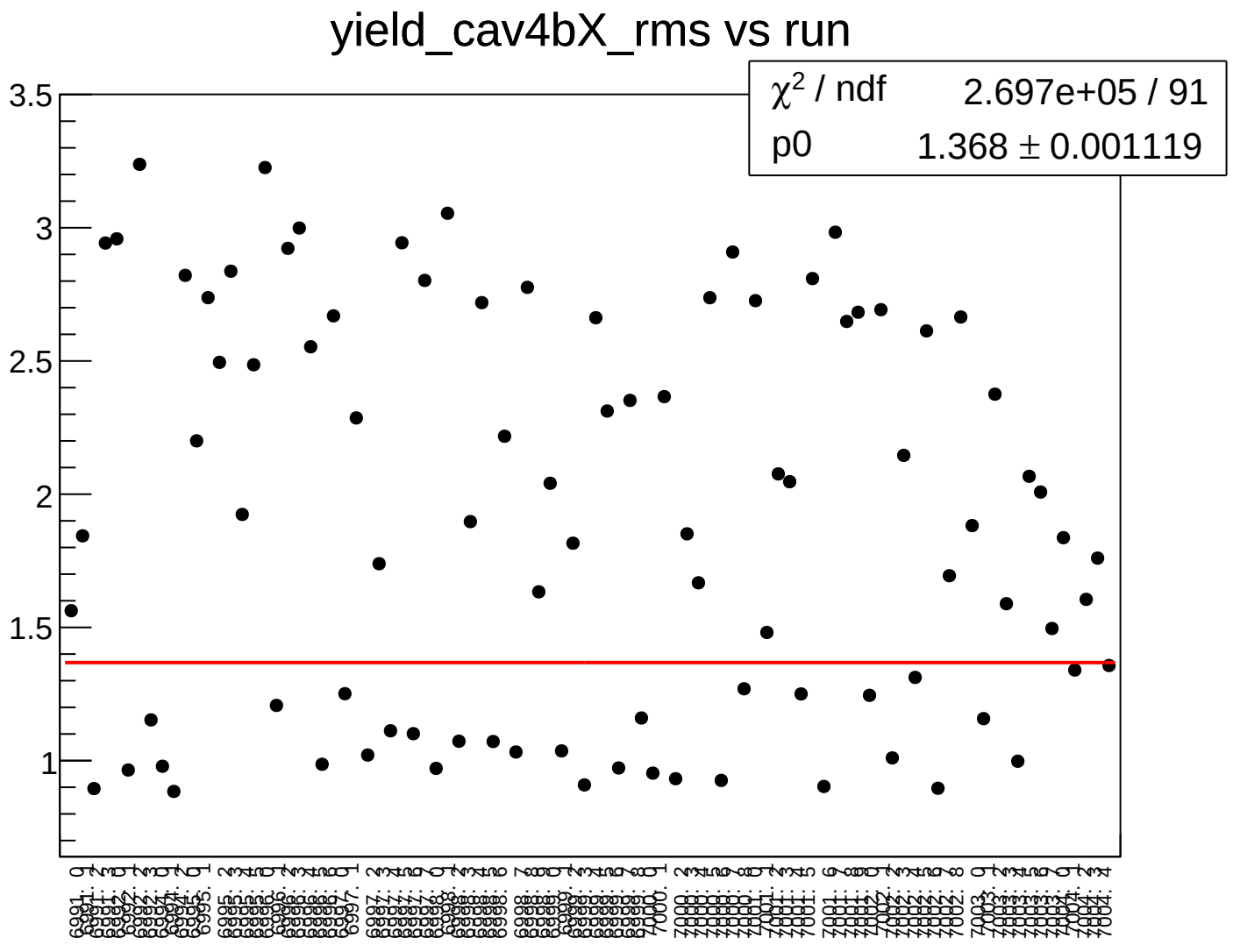

diff_bpmtargetdiffY_mean vs run
χ² / ndf 87.17 / 91
p0 0.3819 ± 1.052
pull
Entries 92
Mean −11.76
Std Dev 0

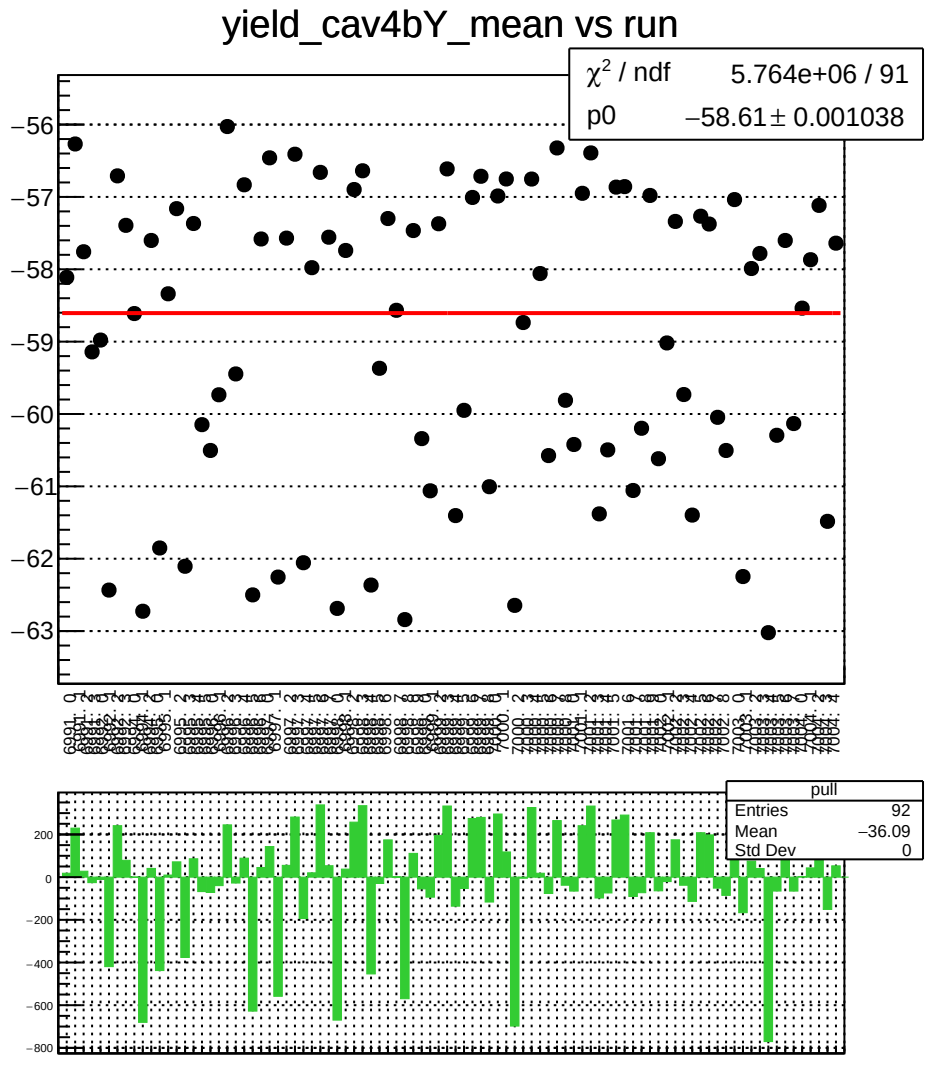

pull1D
Entries 92
Mean 0.005343
Std Dev 0.9734

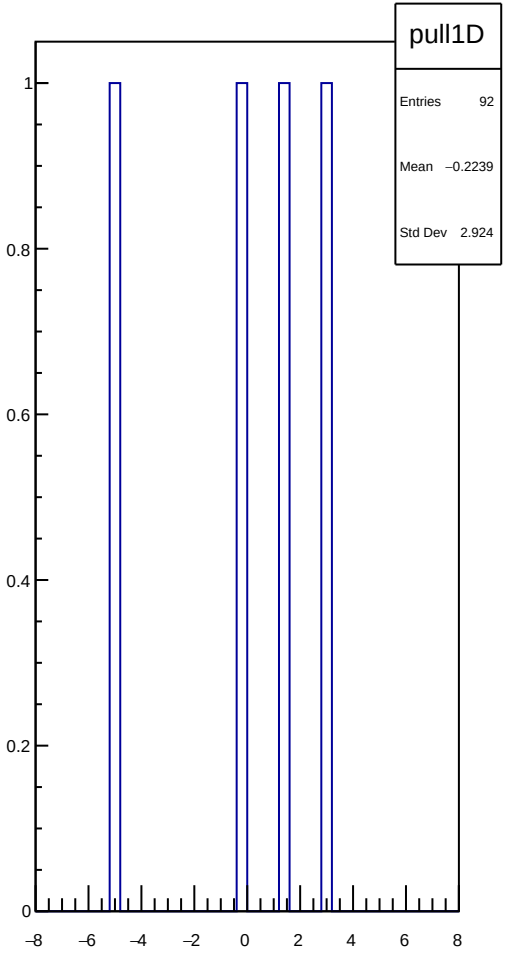

diff_bpmtargetdiffY_rms vs run
χ² / ndf 8473 / 91
p0 985.7 ± 0.7437
1200
1150
1100
1050
1000
950
900
850

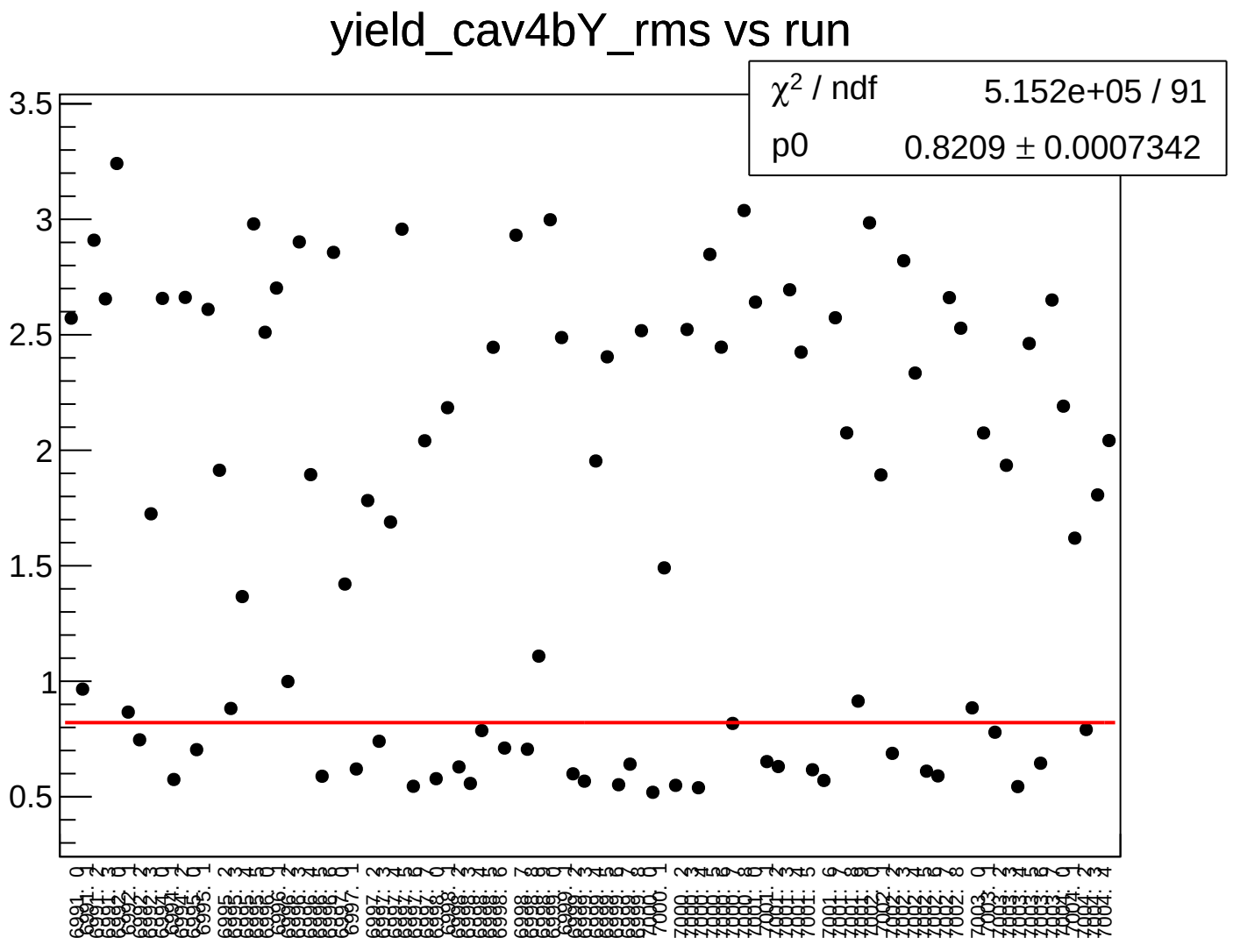

yield_cav4bX_mean vs run
χ² / ndf 2.701e+05 / 91
p0 −29.08 ± 0.001582
−26
−27
−28
−29
−30
−31
pull
Entries 92
Mean 37.8
Std Dev 22.81
150
100
50
0
−50
−100

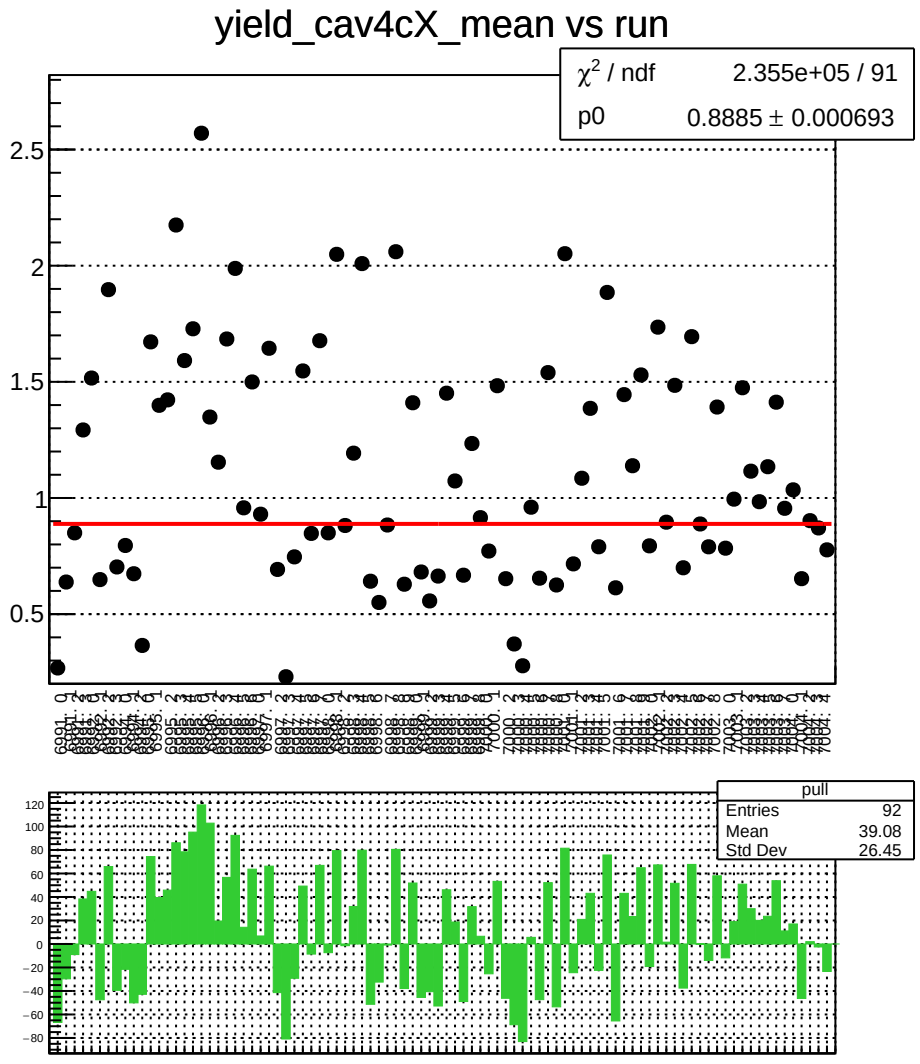

pull1D
Entries 92
Mean −1.371
Std Dev 5.292
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

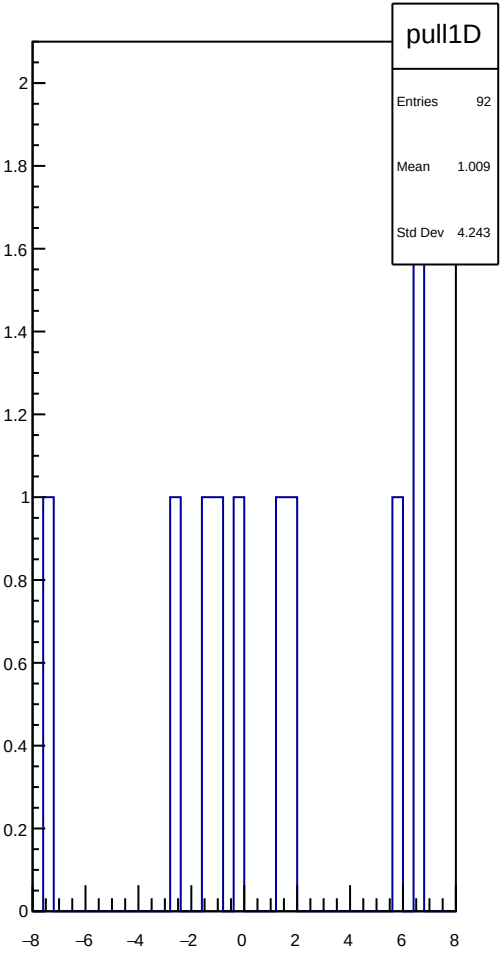

yield_cav4bX_rms vs run
χ² / ndf 2.697e+05 / 91
p0 1.368 ± 0.001119
3.5
3
2.5
2
1.5
1

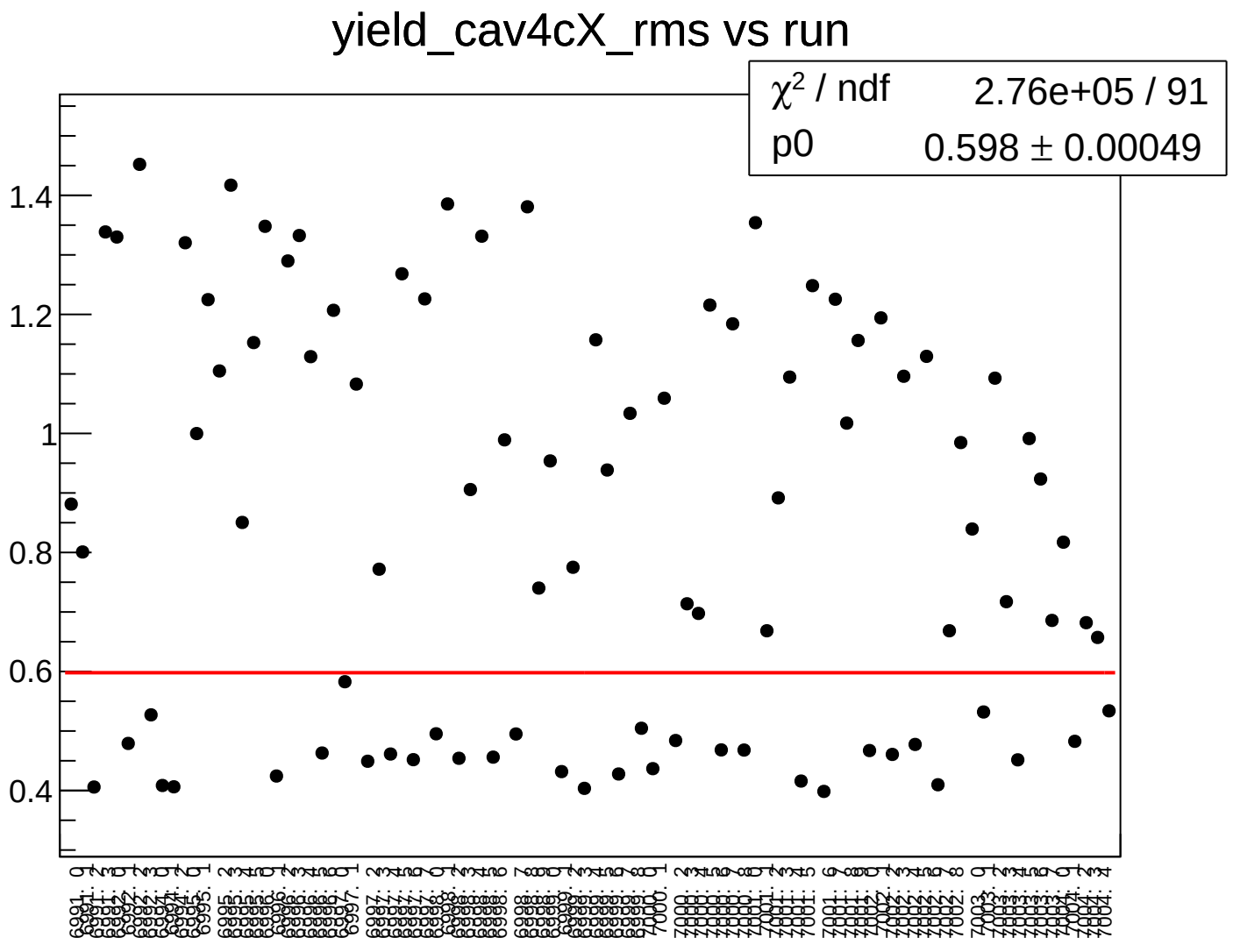

yield_cav4bY_mean vs run
χ² / ndf 5.764e+06 / 91
p0 −58.61 ± 0.001038
−56
−57
−58
−59
−60
−61
−62
−63
pull
Entries 92
Mean −36.09
Std Dev 0
200
0
−200
−400
−600
−800

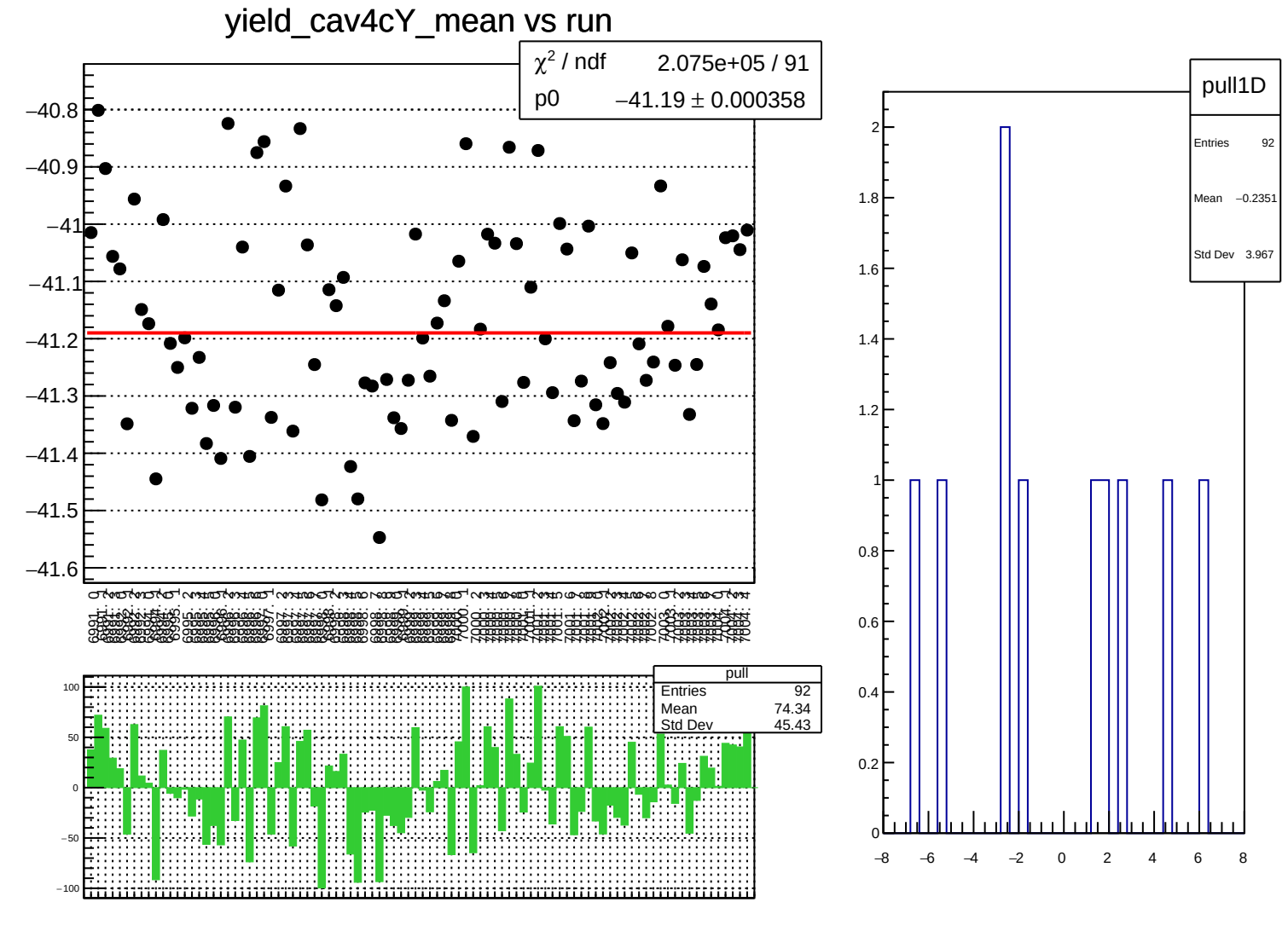

pull1D
Entries 92
Mean −0.2239
Std Dev 2.924
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

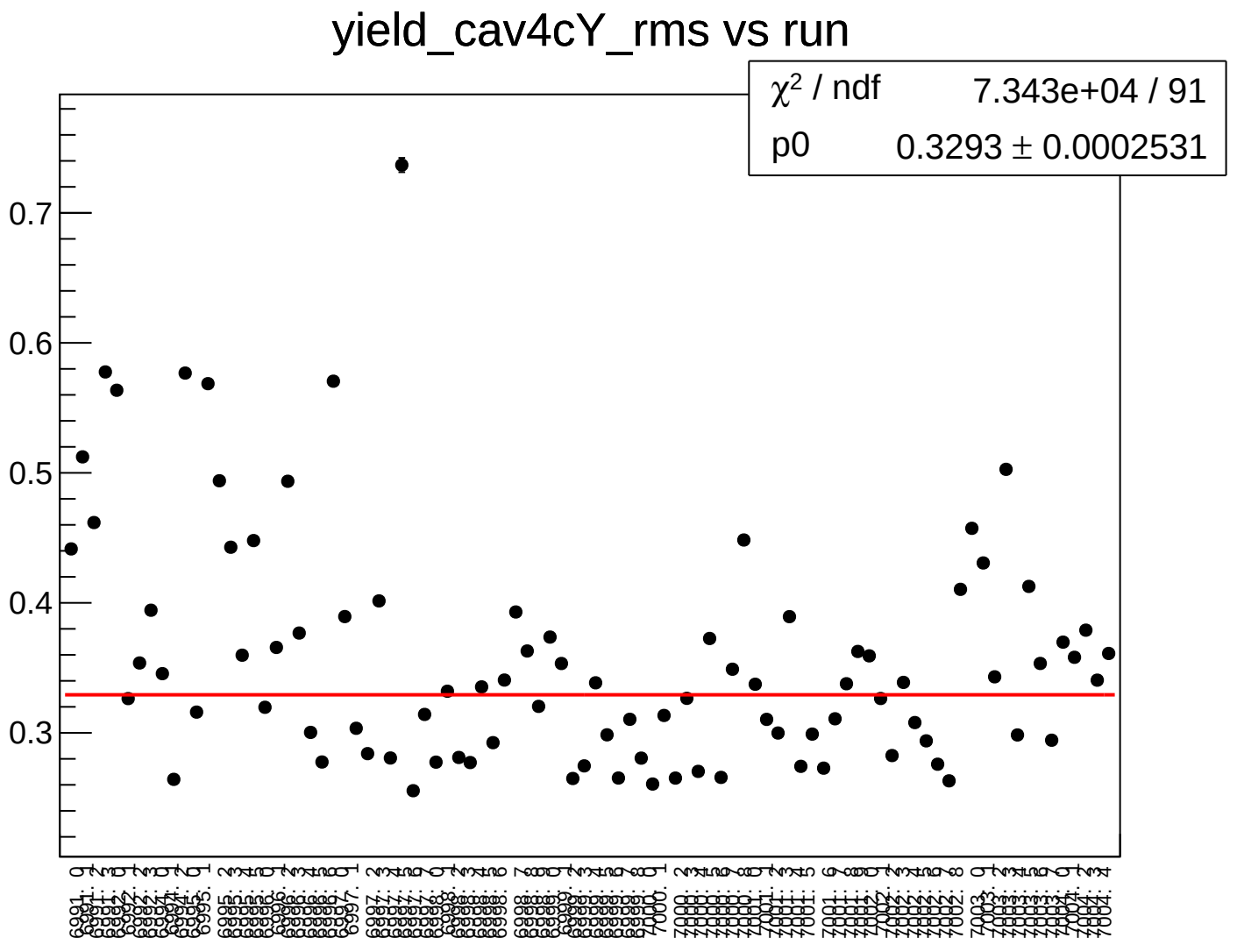

yield_cav4bY_rms vs run
χ² / ndf 5.152e+05 / 91
p0 0.8209 ± 0.0007342
3.5
3
2.5
2
1.5
1
0.5

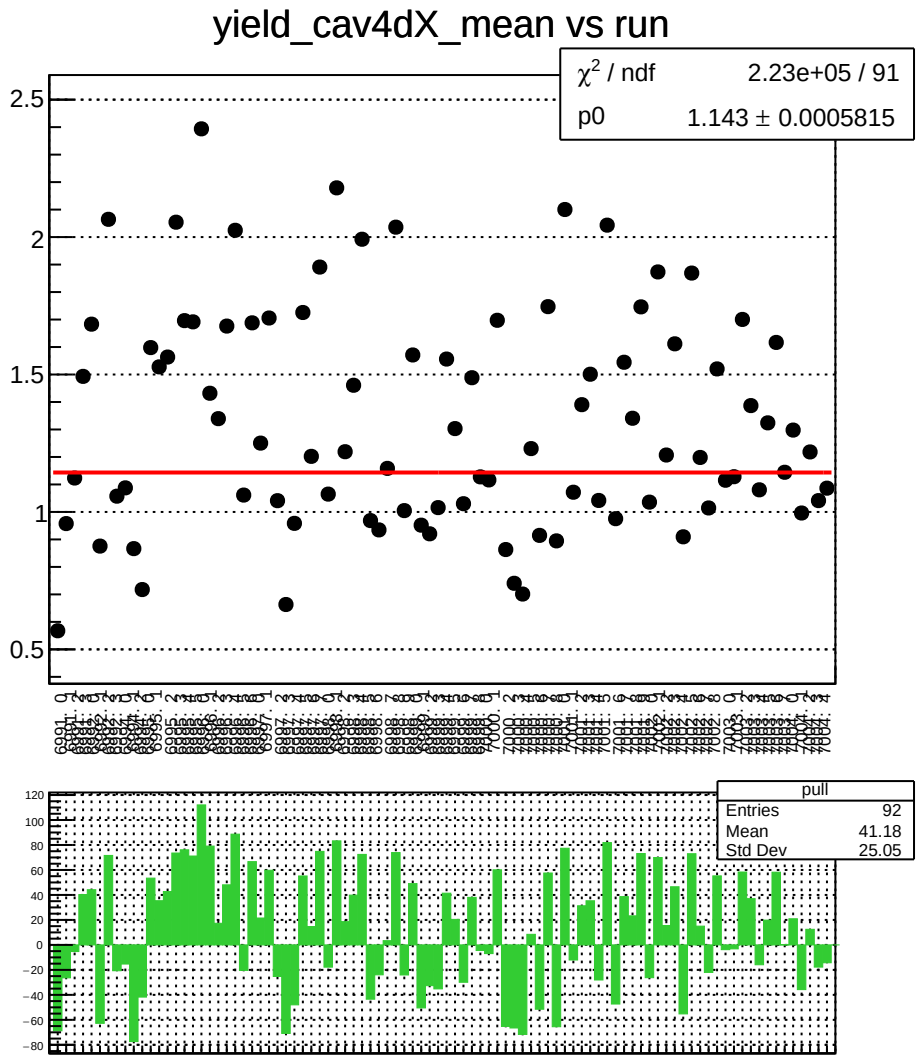

yield_cav4cX_mean vs run
χ² / ndf 2.355e+05 / 91
p0 0.8885 ± 0.000693
pull
Entries 92
Mean 39.08
Std Dev 26.45

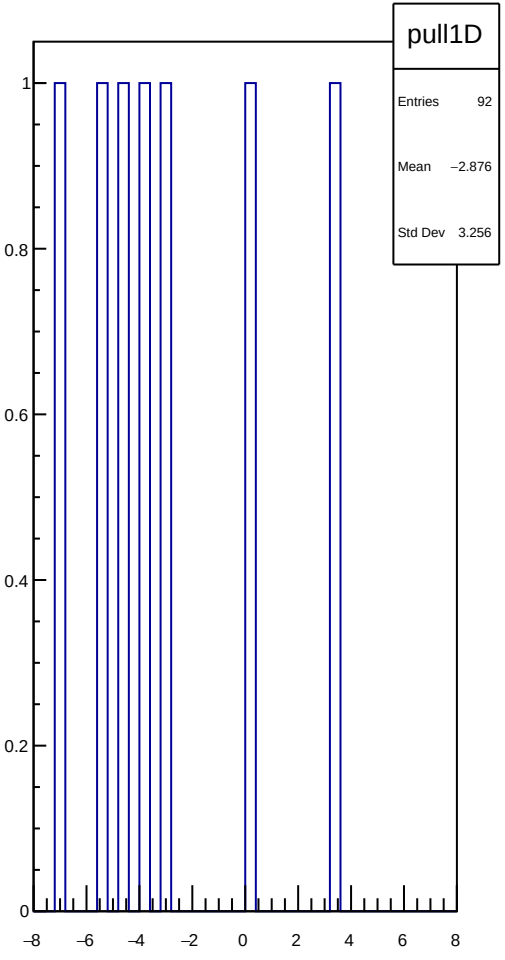

pull1D
Entries 92
Mean 1.009
Std Dev 4.243

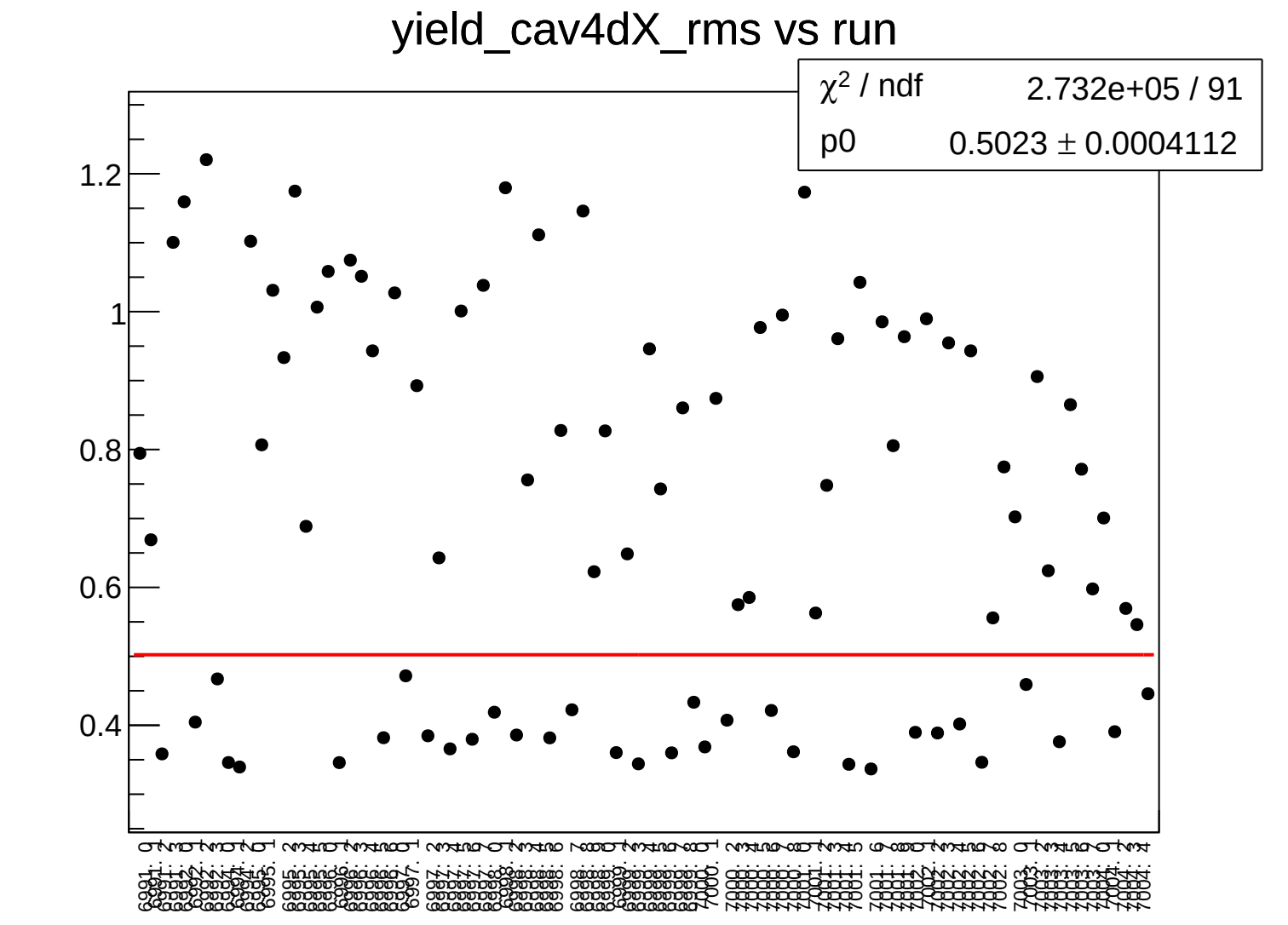

yield_cav4cX_rms vs run
χ² / ndf 2.76e+05 / 91
p0 0.598 ± 0.00049
1.4
1.2
1
0.8
0.6
0.4

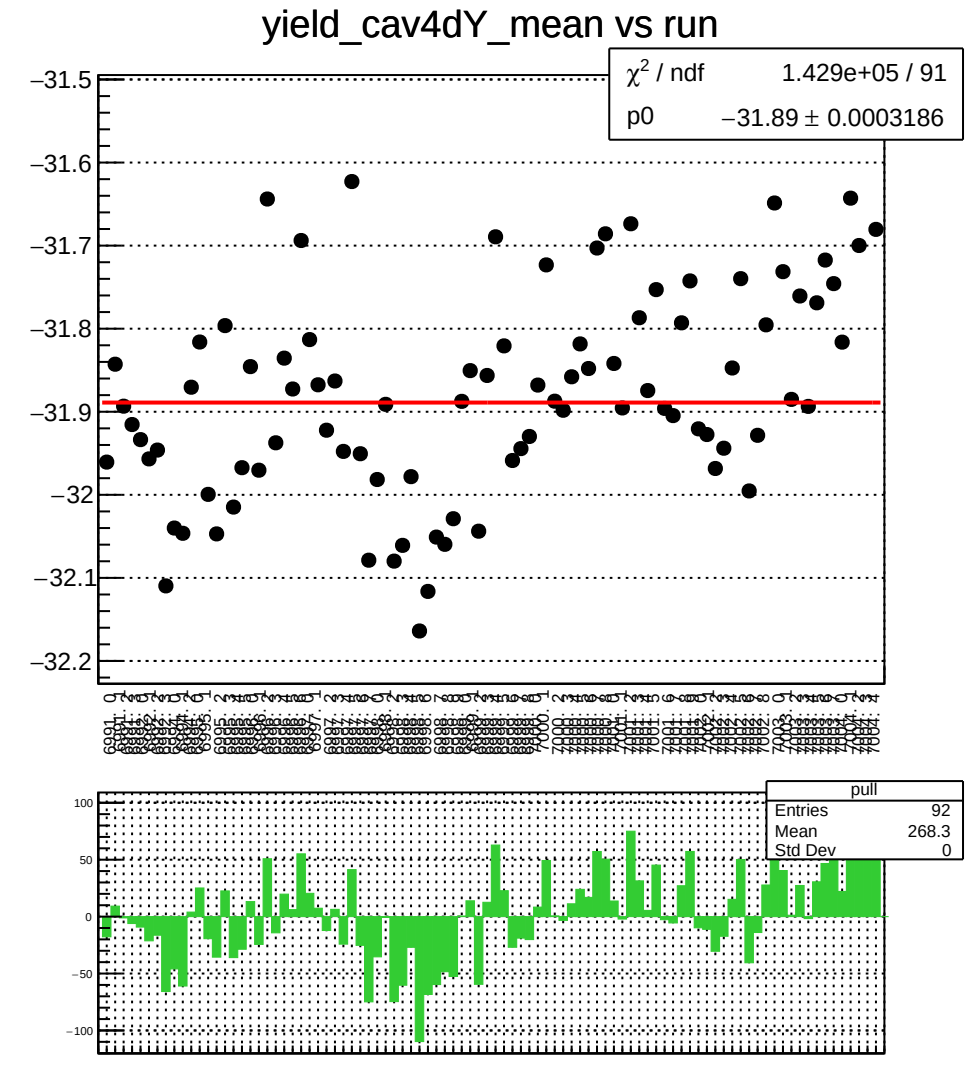

yield_cav4cY_mean vs run
χ² / ndf 2.075e+05 / 91
p0 −41.19 ± 0.000358
−40.8
−40.9
−41
−41.1
−41.2
−41.3
−41.4
−41.5
−41.6
pull
Entries 92
Mean 74.34
Std Dev 45.43
100
50
0
−50
−100
pull1D
Entries 92
Mean −0.2351
Std Dev 3.967
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

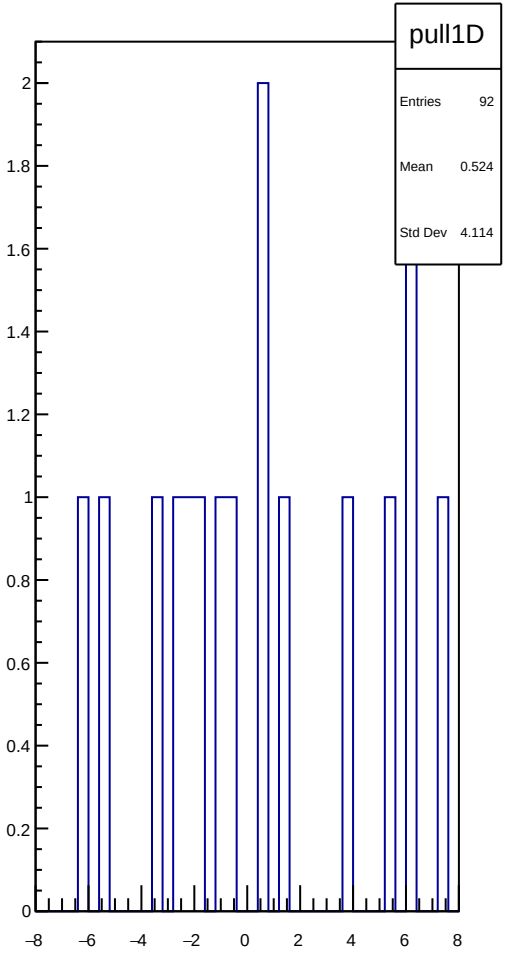

yield_cav4cY_rms vs run
χ² / ndf 7.343e+04 / 91
p0 0.3293 ± 0.0002531
0.7
0.6
0.5
0.4
0.3

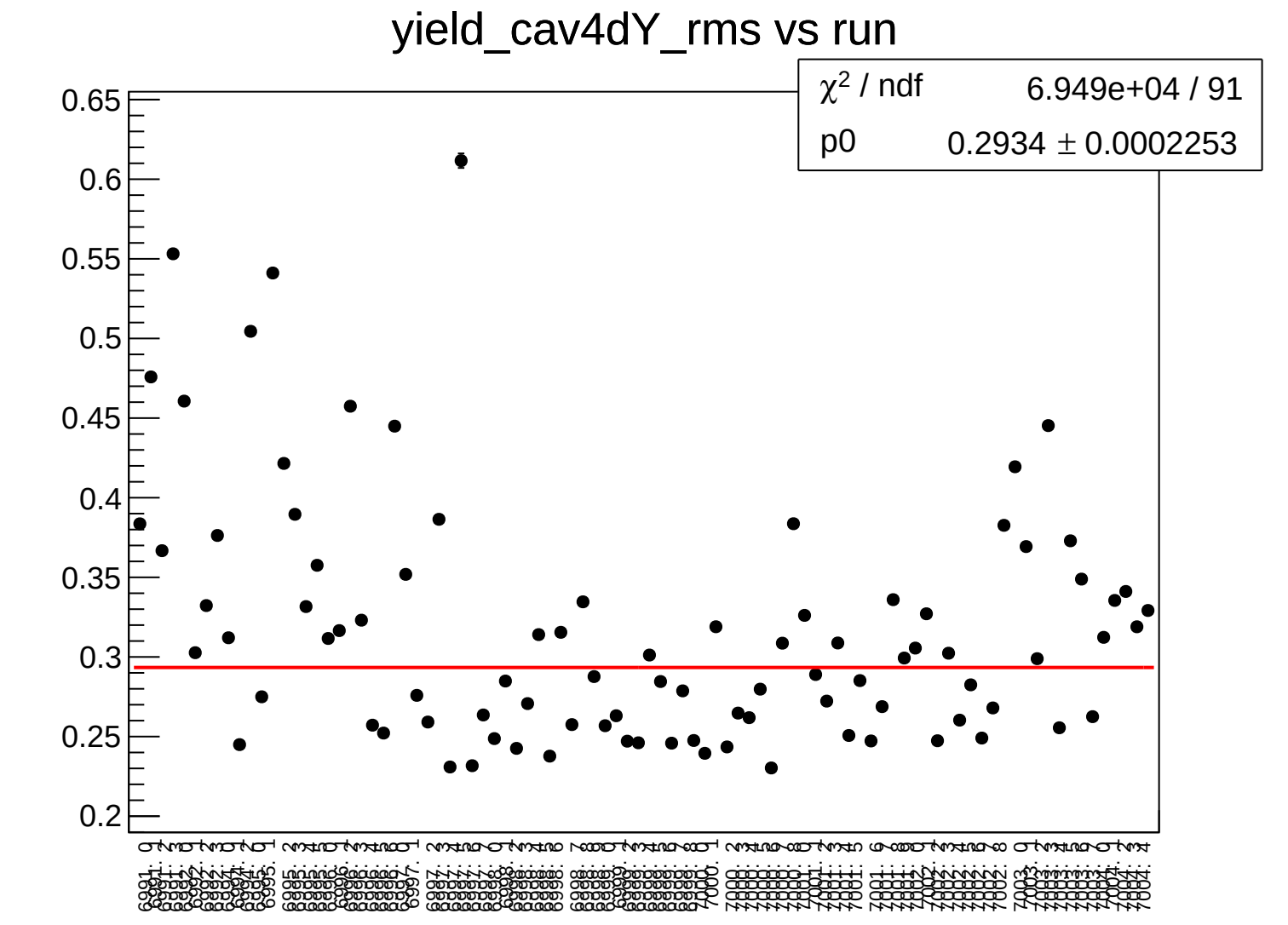

yield_cav4dX_mean vs run
χ² / ndf 2.23e+05 / 91
p0 1.143 ± 0.0005815
2.5
2
1.5
1
0.5
pull
Entries 92
Mean 41.18
Std Dev 25.05
120
100
80
60
40
20
0
−20
−40
−60
−80

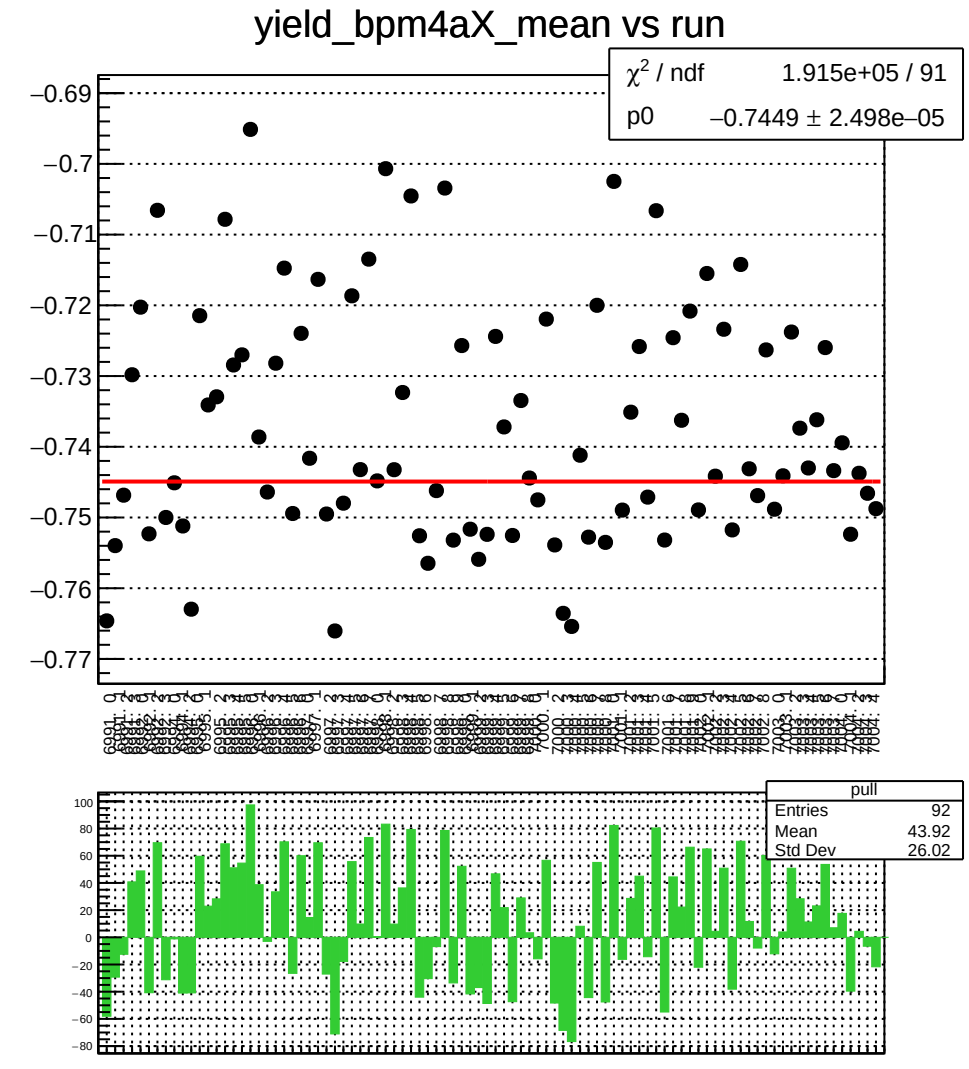

pull1D
Entries 92
Mean −2.876
Std Dev 3.256
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

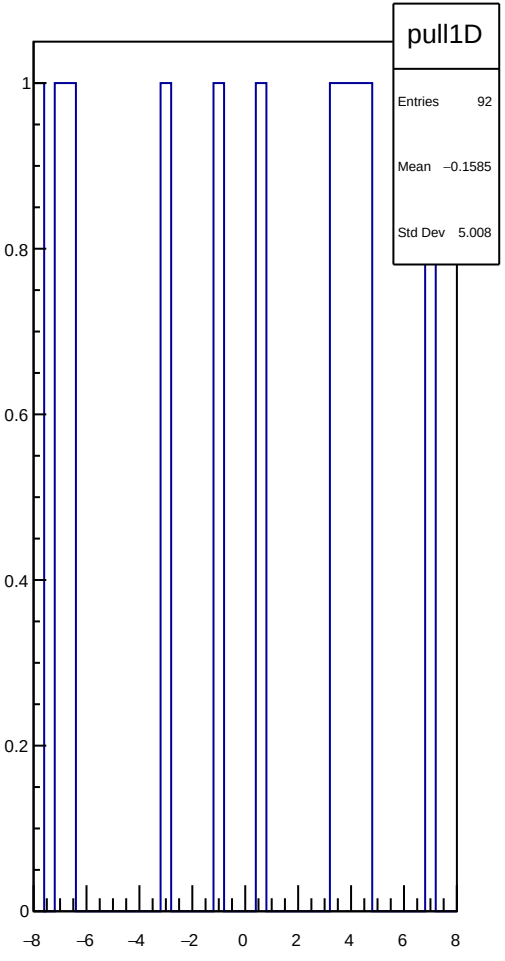

yield_cav4dX_rms vs run
χ² / ndf 2.732e+05 / 91
p0 0.5023 ± 0.0004112
1.2
1
0.8
0.6
0.4

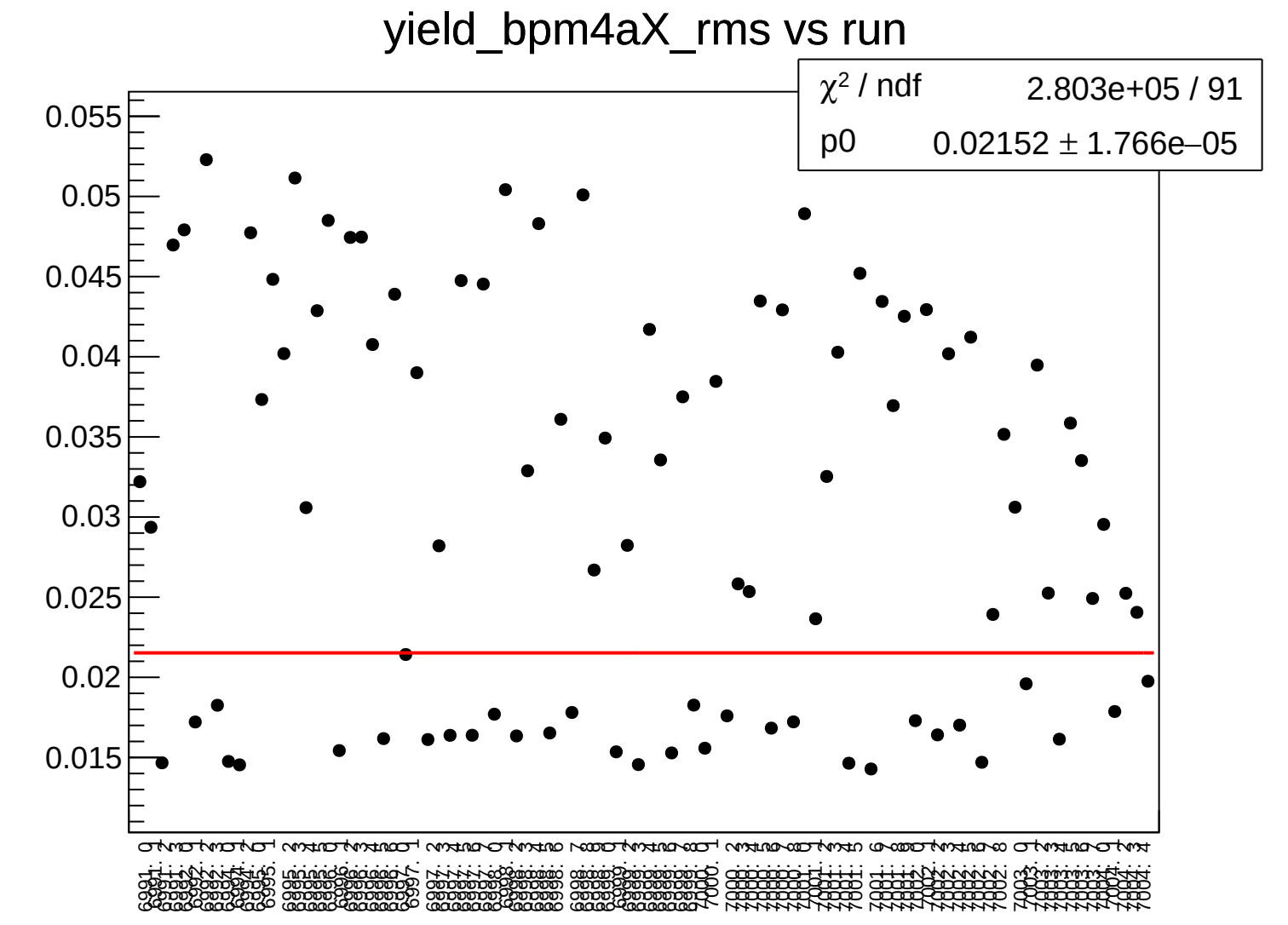

yield_cav4dY_mean vs run
χ² / ndf 1.429e+05 / 91
p0 −31.89 ± 0.0003186
−31.5
−31.6
−31.7
−31.8
−31.9
−32
−32.1
−32.2
pull
Entries 92
Mean 268.3
Std Dev 0
100
50
0
−50
−100

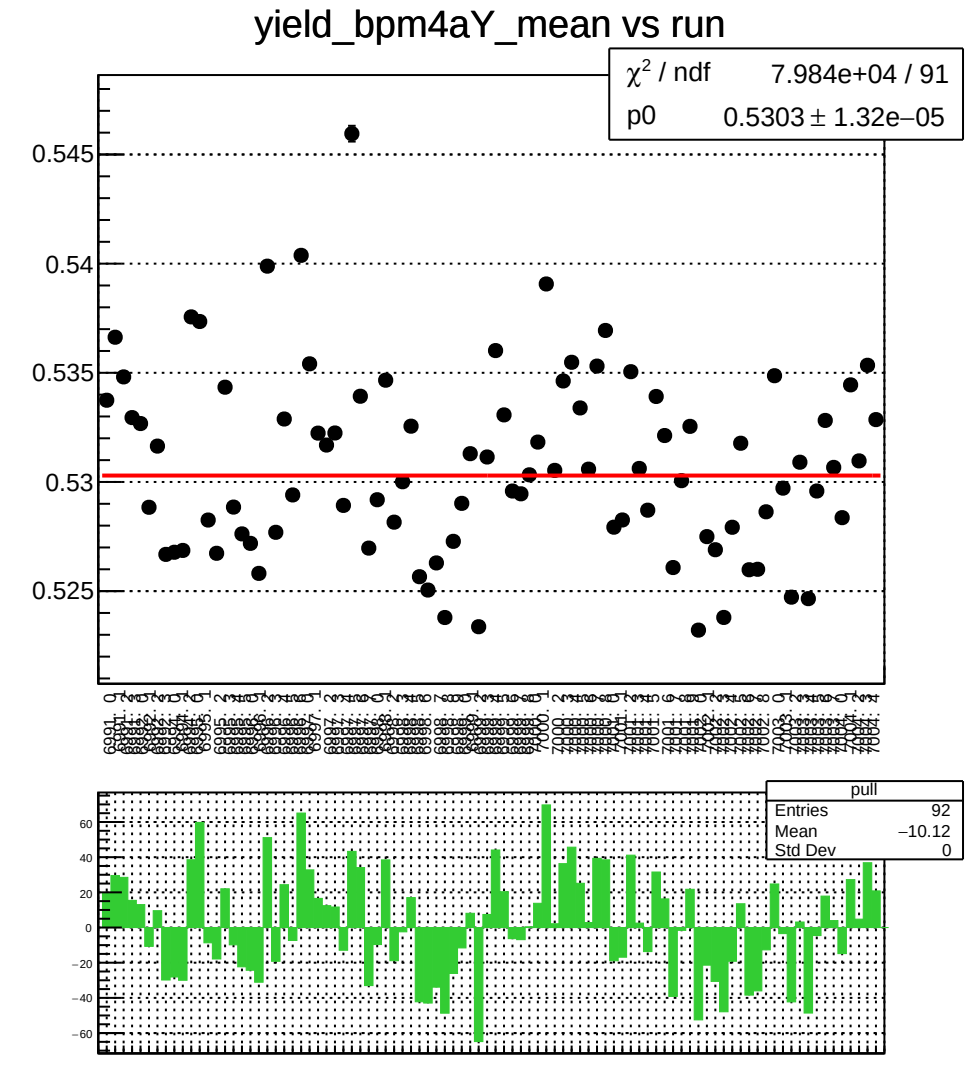

pull1D
Entries 92
Mean 0.524
Std Dev 4.114
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

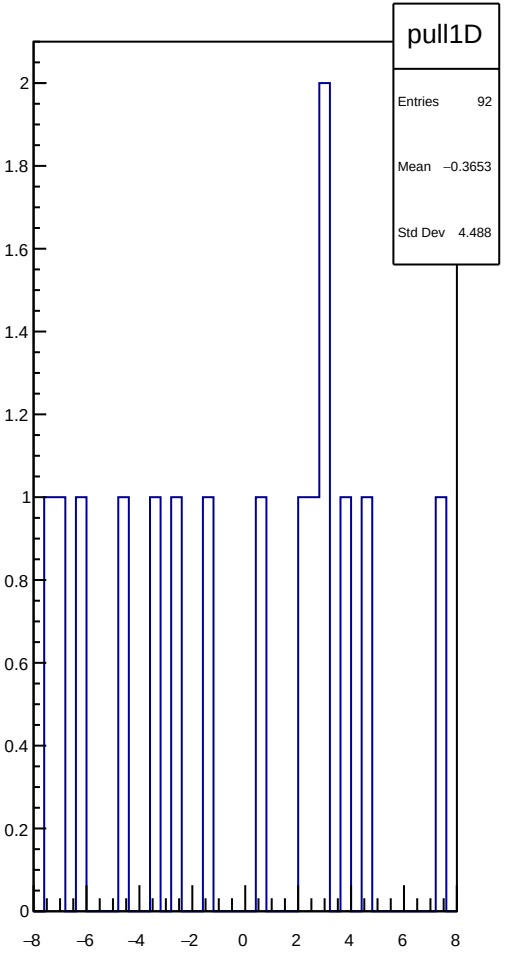

yield_cav4dY_rms vs run
χ² / ndf 6.949e+04 / 91
p0 0.2934 ± 0.0002253
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

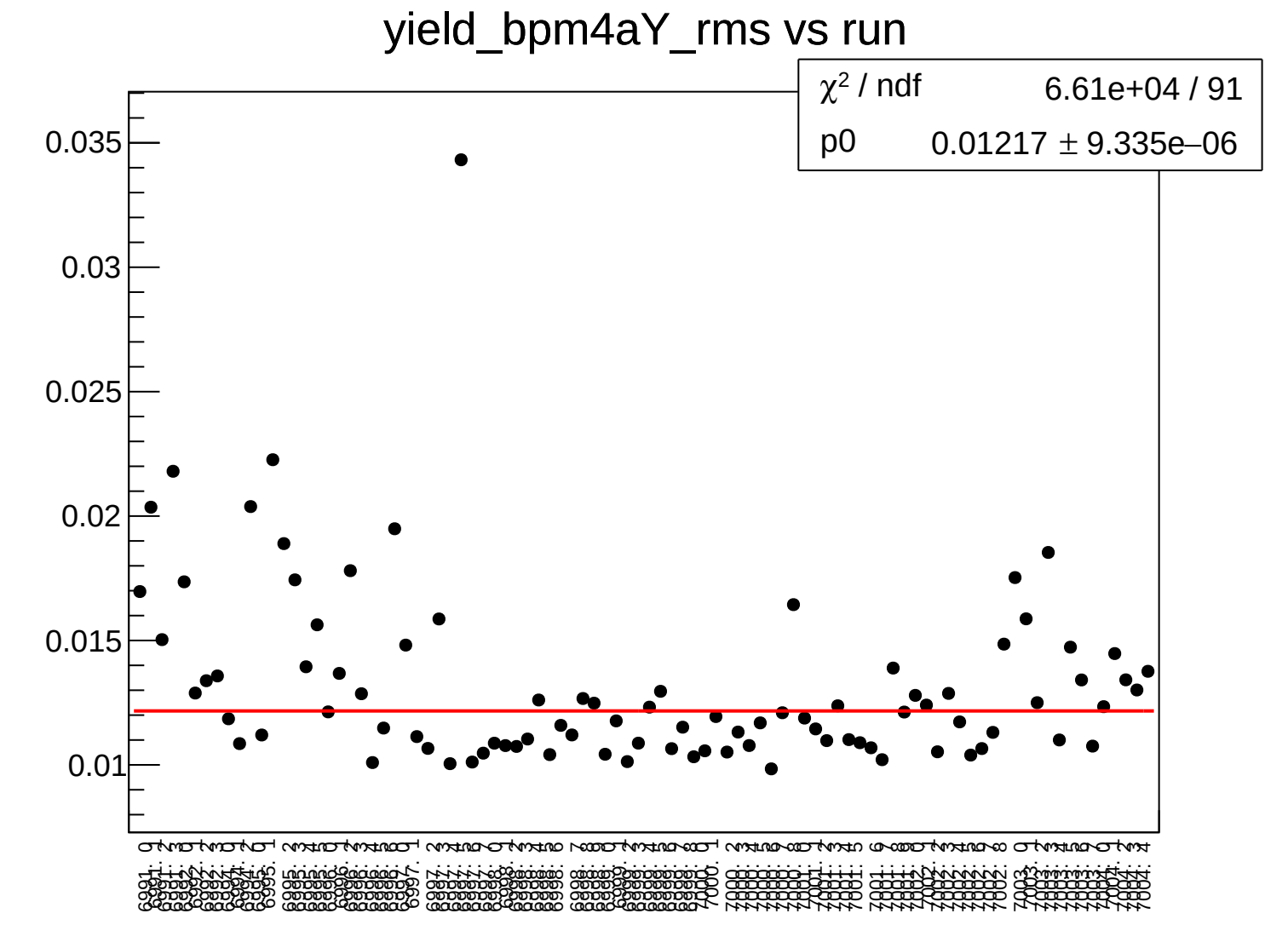

yield_bpm4aX_mean vs run
χ² / ndf 1.915e+05 / 91
p0 −0.7449 ± 2.498e−05
pull
Entries 92
Mean 43.92
Std Dev 26.02

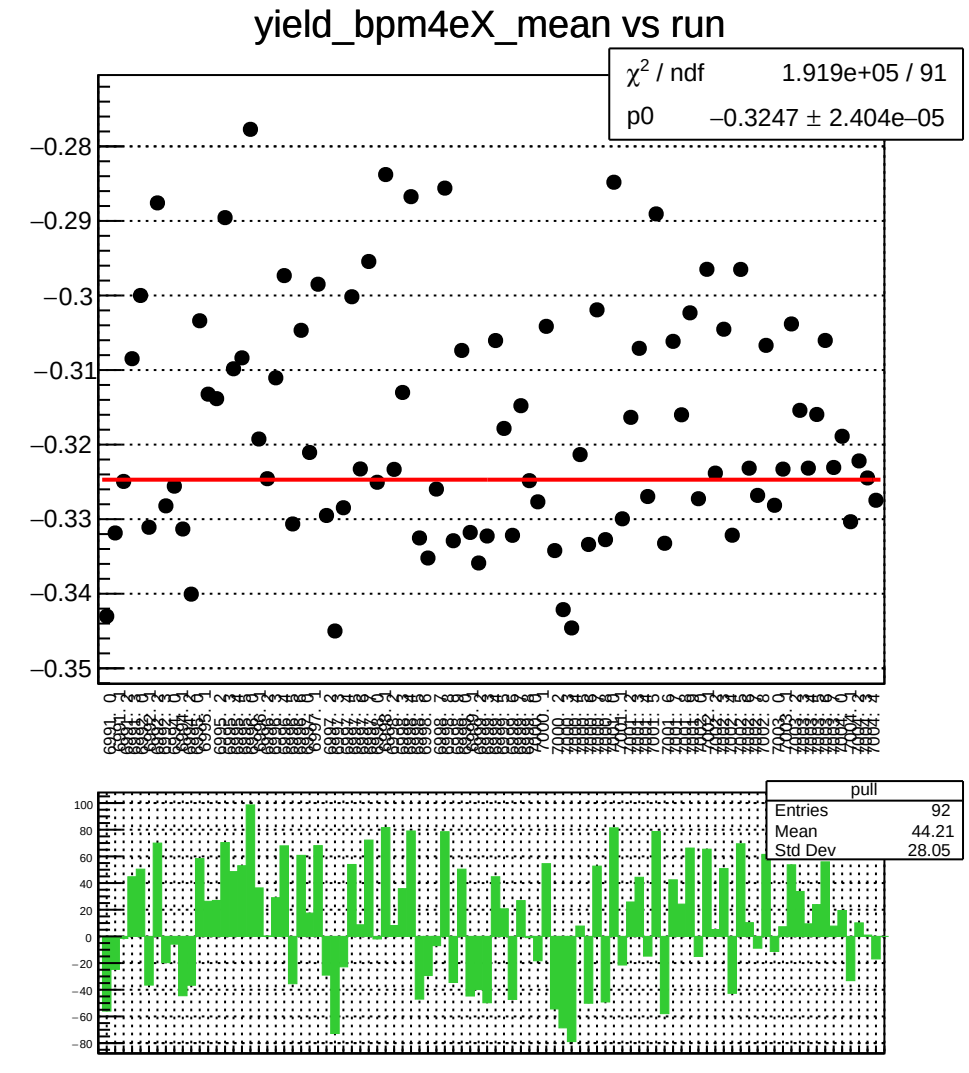

pull1D
Entries 92
Mean −0.1585
Std Dev 5.008

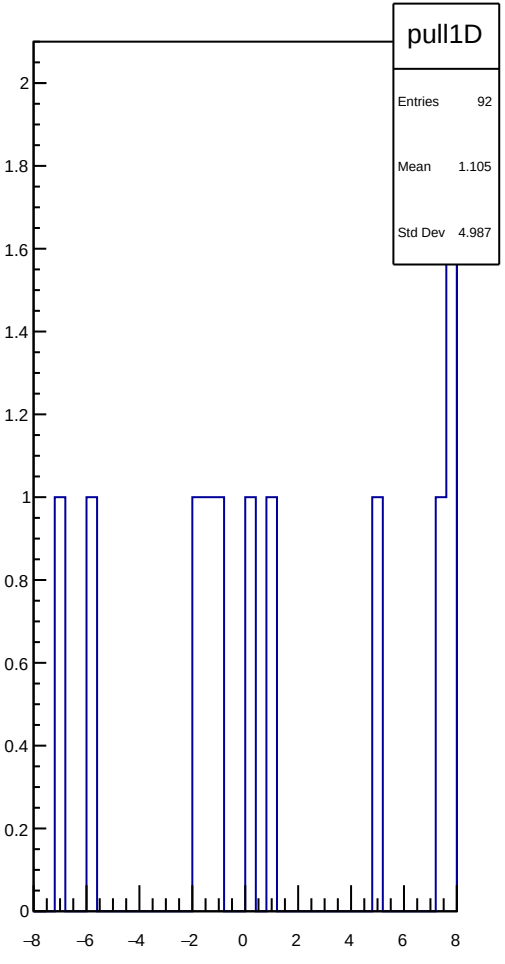

yield_bpm4aX_rms vs run
χ² / ndf 2.803e+05 / 91
p0 0.02152 ± 1.766e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

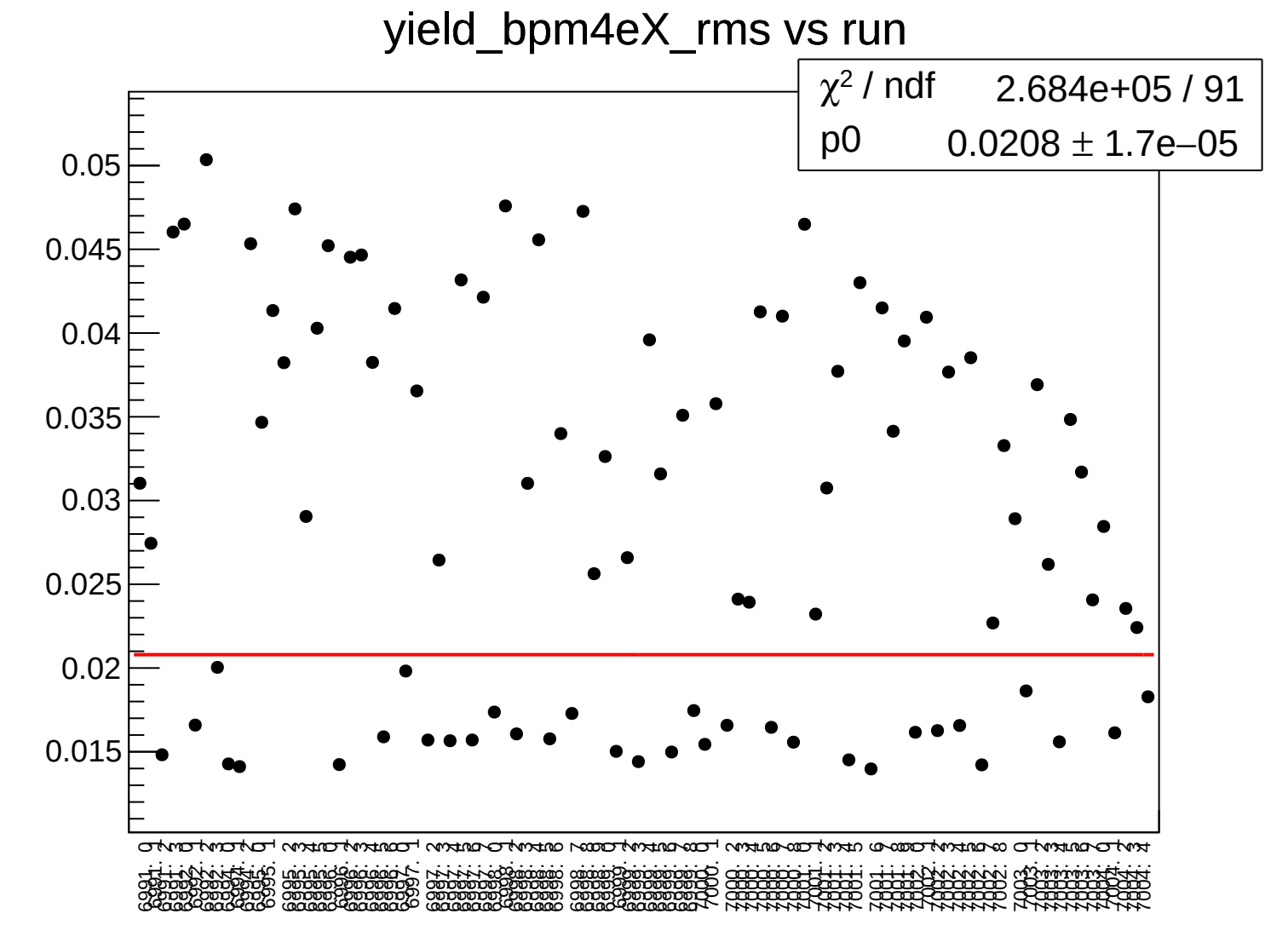

yield_bpm4aY_mean vs run
χ² / ndf 7.984e+04 / 91
p0 0.5303 ± 1.32e−05
0.545
0.54
0.535
0.53
0.525
pull
Entries 92
Mean −10.12
Std Dev 0
60
40
20
0
−20
−40
−60

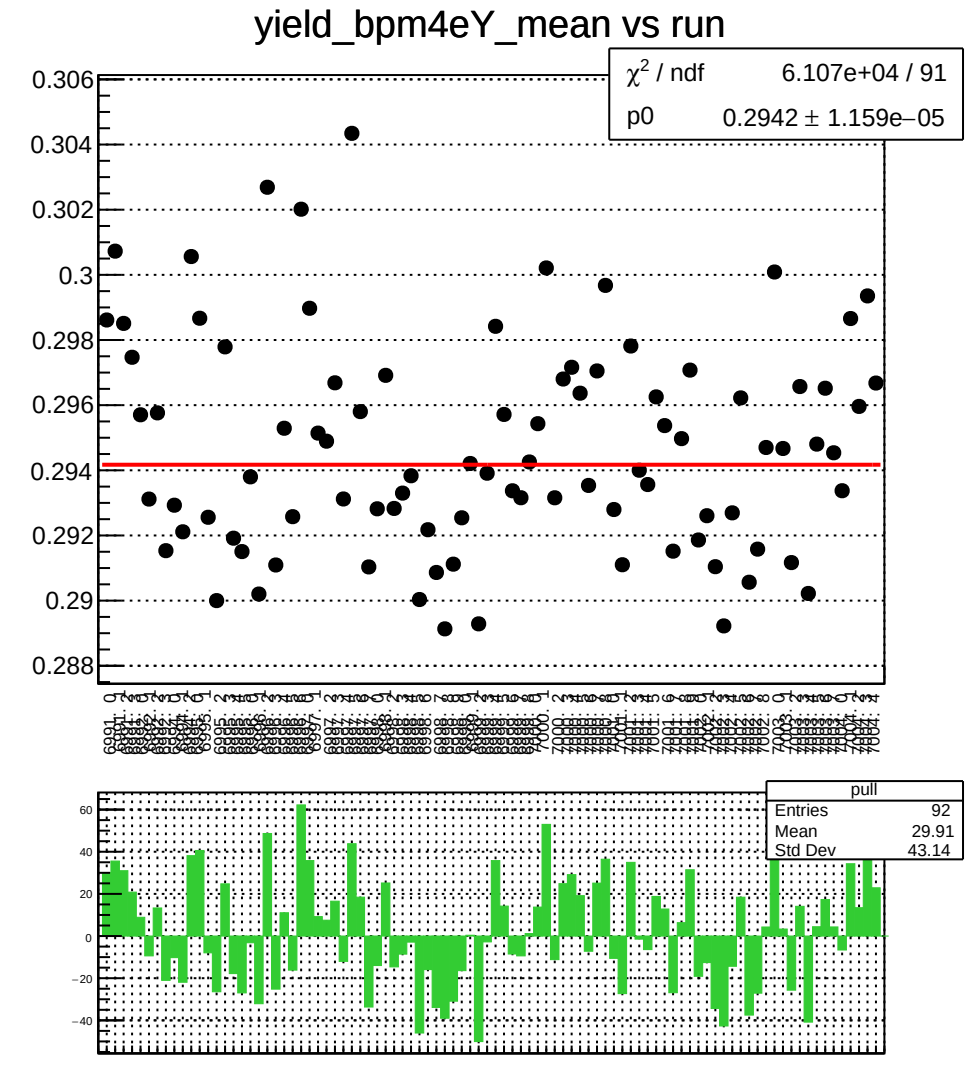

pull1D
Entries 92
Mean −0.3653
Std Dev 4.488
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

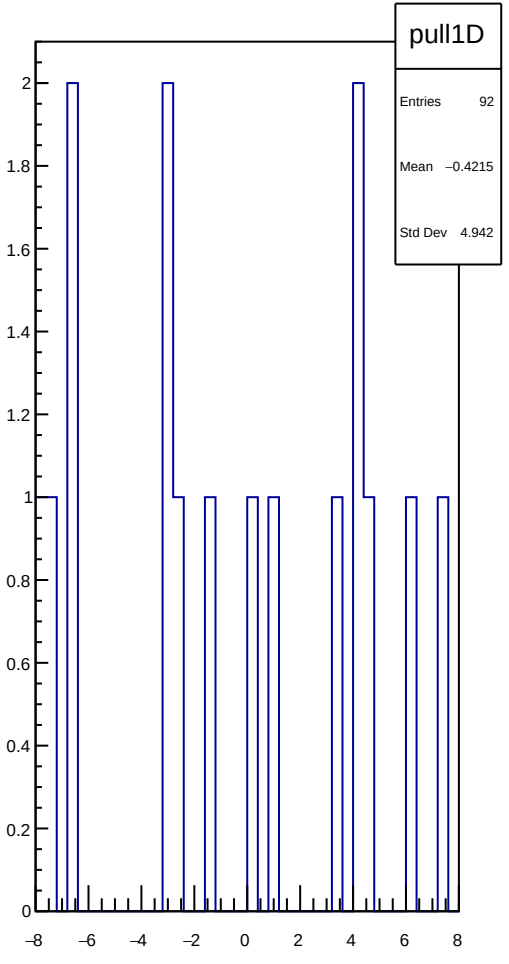

yield_bpm4aY_rms vs run
χ² / ndf 6.61e+04 / 91
p0 0.01217 ± 9.335e–06
0.035
0.03
0.025
0.02
0.015
0.01


yield_bpm4eX_mean vs run
χ² / ndf 1.919e+05 / 91
p0 −0.3247 ± 2.404e−05
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
−0.35
pull
Entries 92
Mean 44.21
Std Dev 28.05
100
80
60
40
20
0
−20
−40
−60
−80

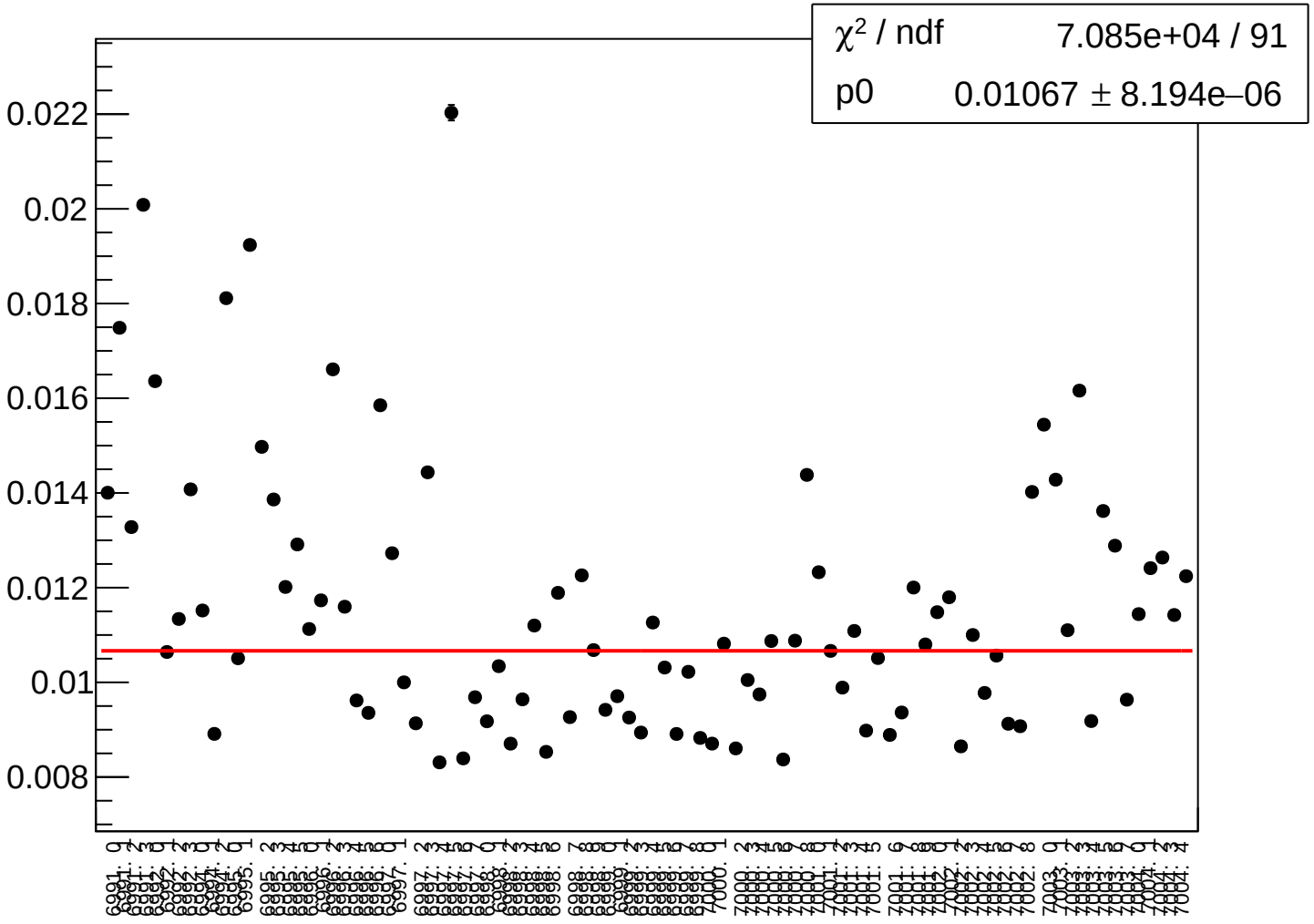

pull1D
Entries 92
Mean 1.105
Std Dev 4.987
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

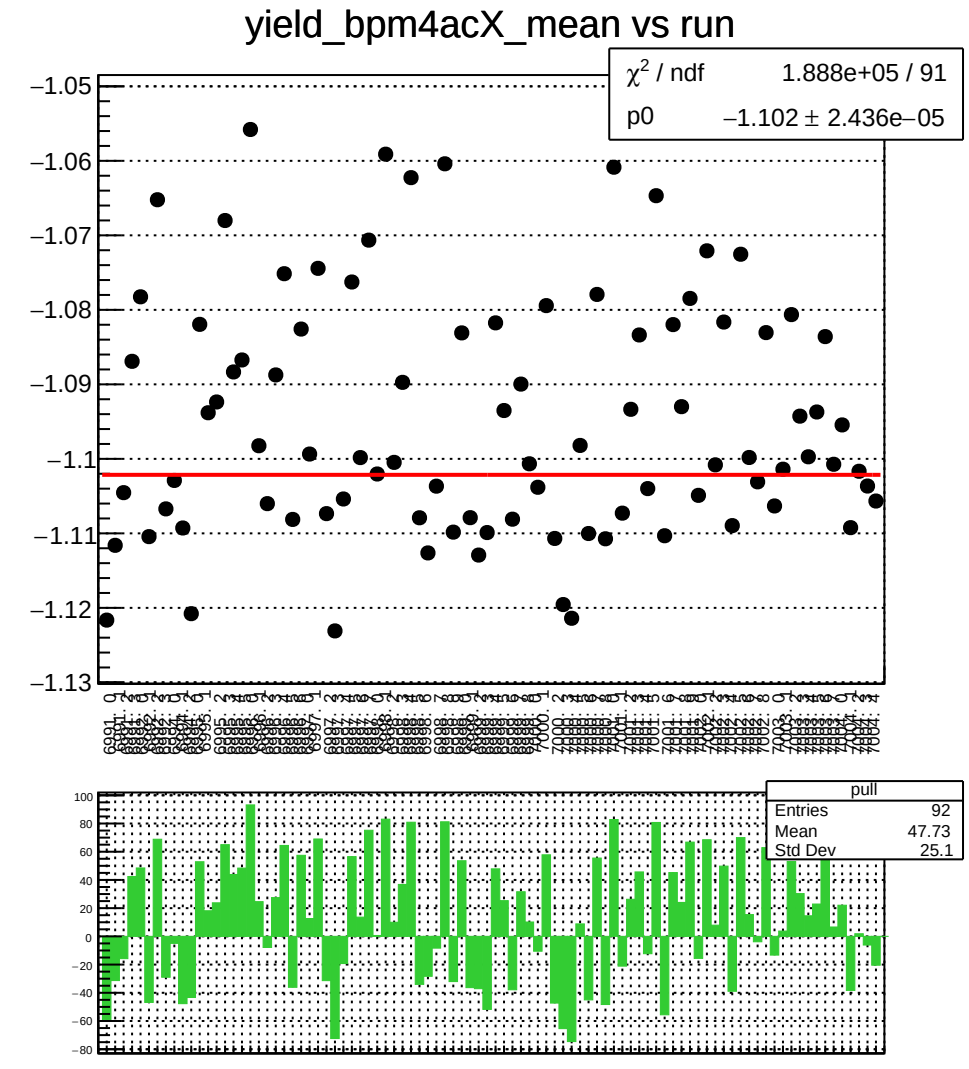

yield_bpm4eX_rms vs run
χ² / ndf 2.684e+05 / 91
p0 0.0208 ± 1.7e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

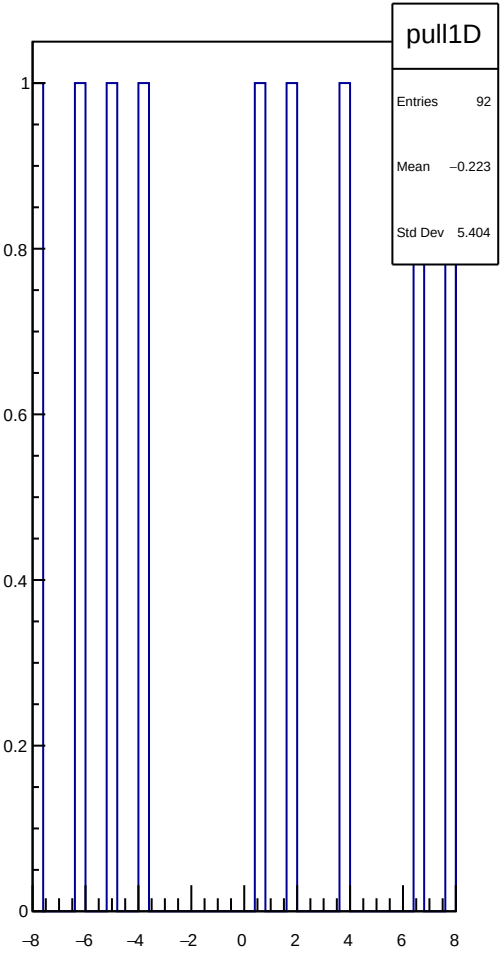

yield_bpm4eY_mean vs run
χ² / ndf 6.107e+04 / 91
p0 0.2942 ± 1.159e−05
0.306
0.304
0.302
0.3
0.298
0.296
0.294
0.292
0.29
0.288
pull
Entries 92
Mean 29.91
Std Dev 43.14
60
40
20
0
−20
−40

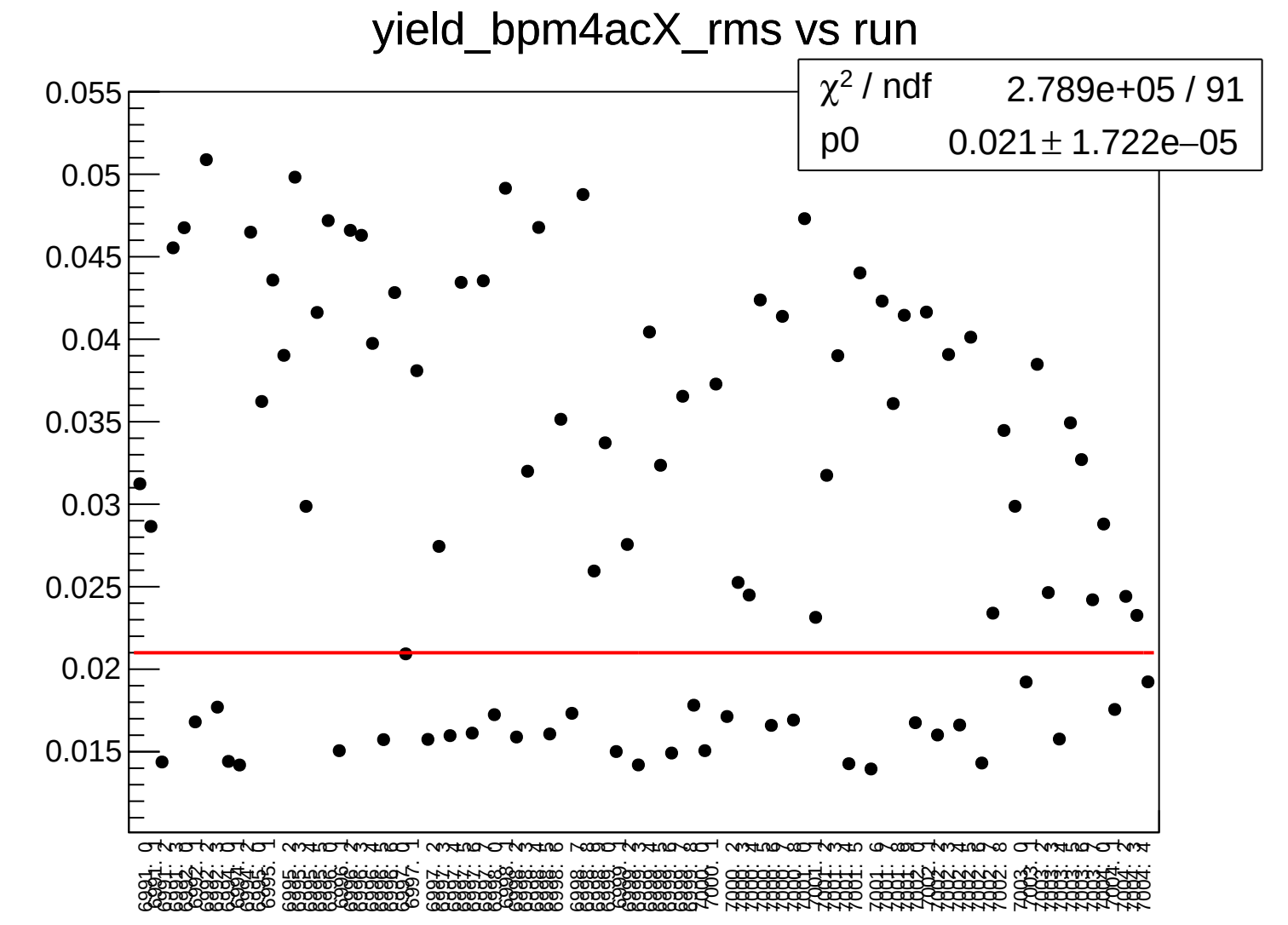

pull1D
Entries 92
Mean −0.4215
Std Dev 4.942
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

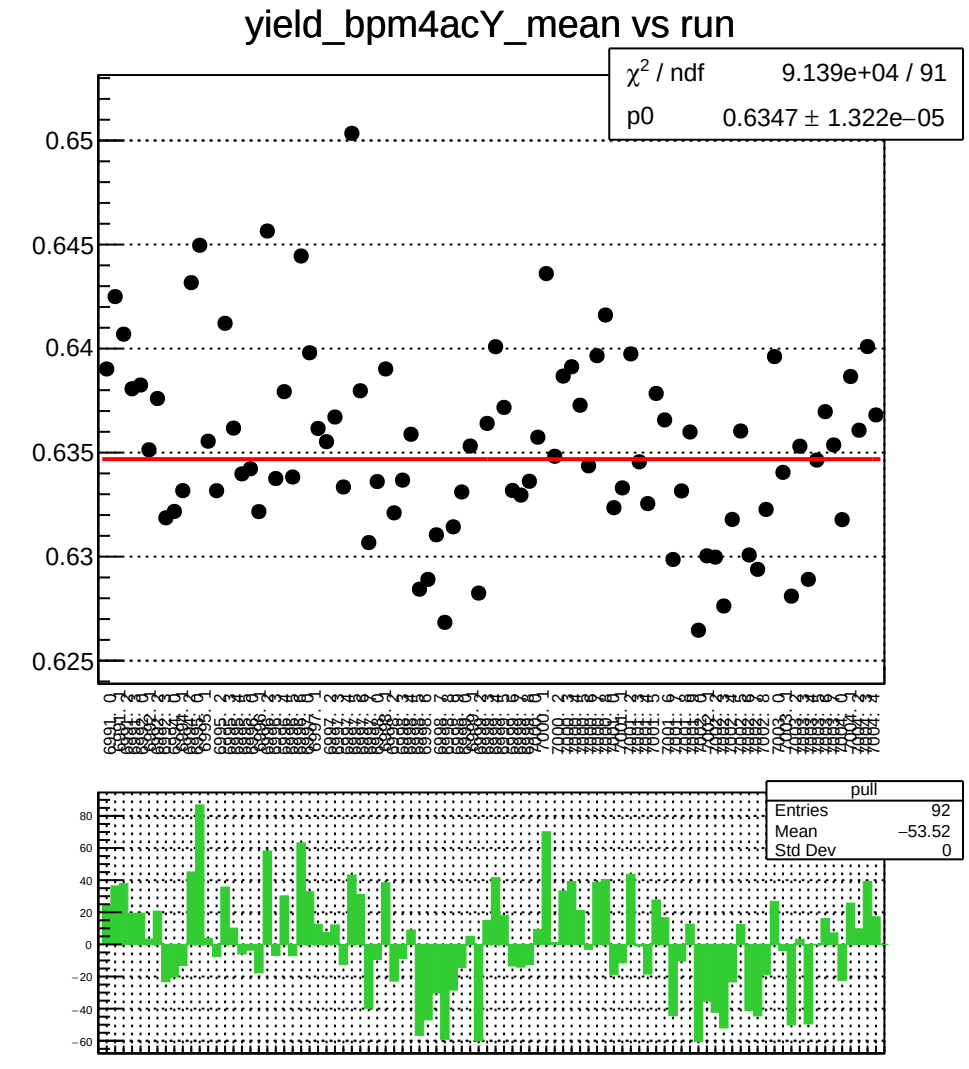
yield_bpm4eY_rms vs run

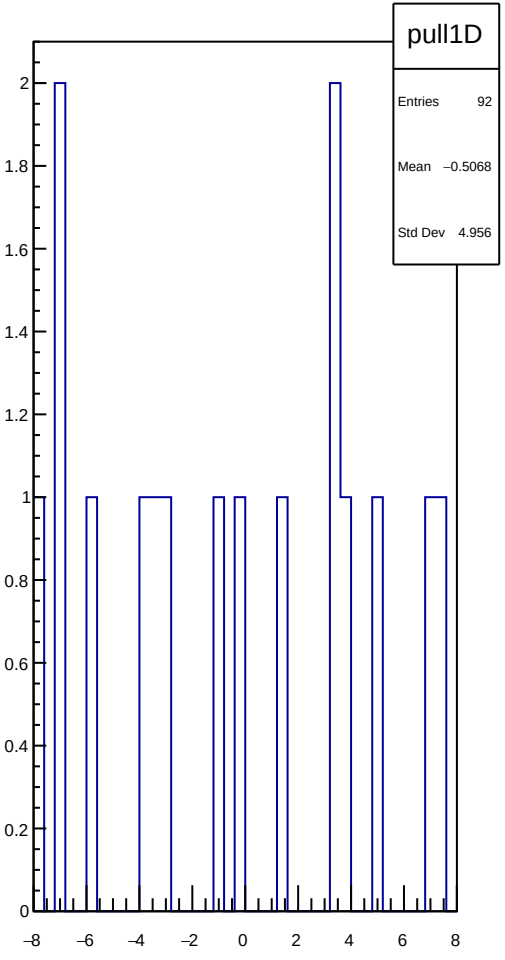


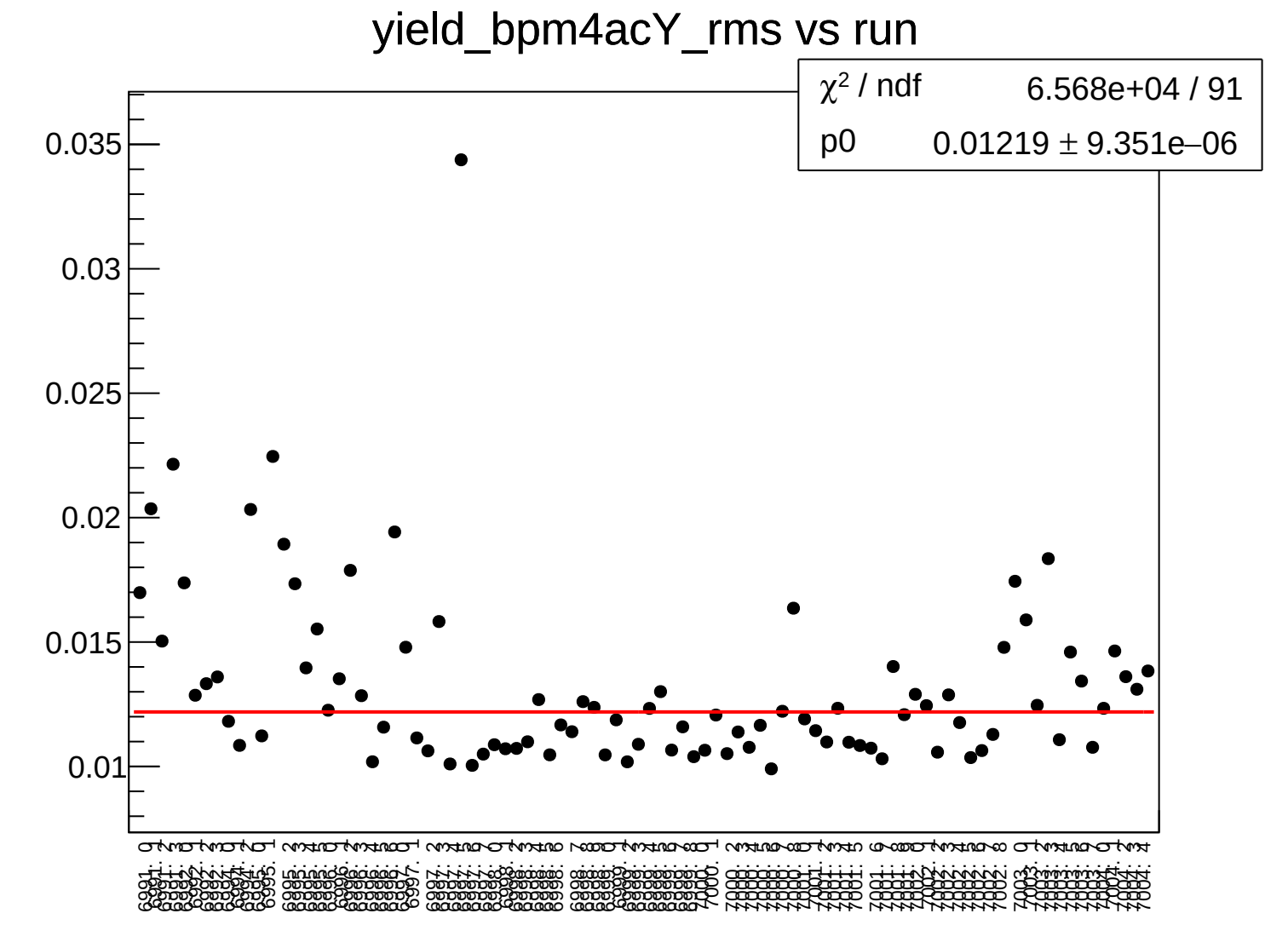

yield_bpm4acX_mean vs run
χ² / ndf 1.888e+05 / 91
p0 −1.102 ± 2.436e−05
−1.05
−1.06
−1.07
−1.08
−1.09
−1.1
−1.11
−1.12
−1.13
pull
Entries 92
Mean 47.73
Std Dev 25.1
100
80
60
40
20
0
−20
−40
−60
−80

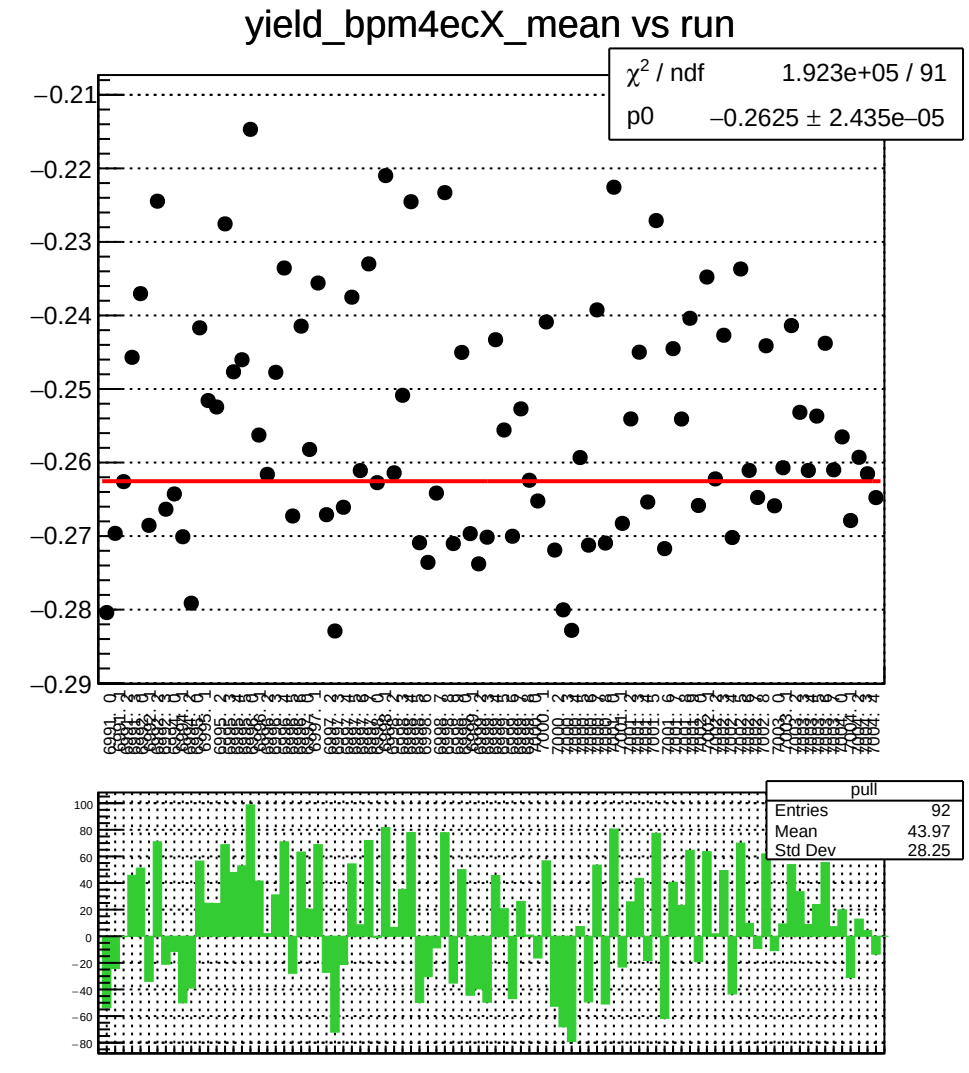

pull1D
Entries 92
Mean −0.223
Std Dev 5.404
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

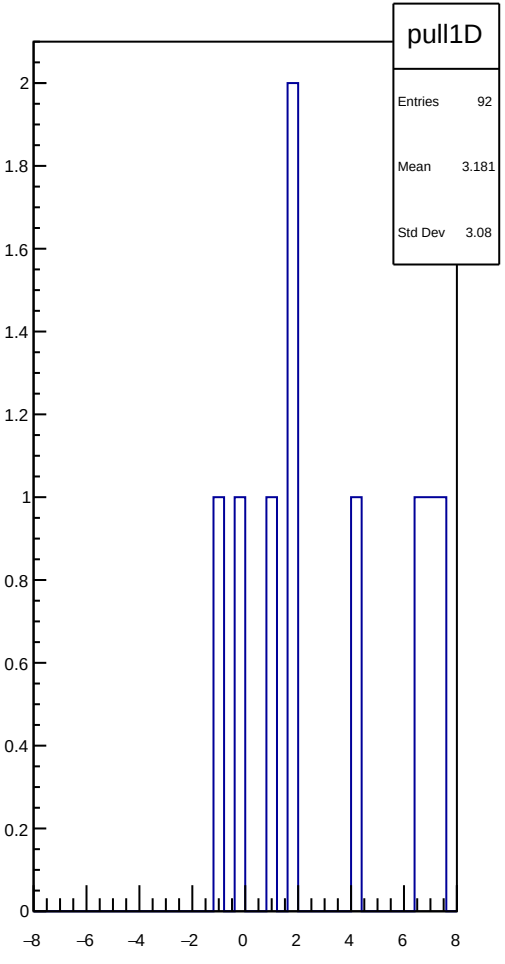

yield_bpm4acX_rms vs run
χ² / ndf 2.789e+05 / 91
p0 0.021 ± 1.722e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

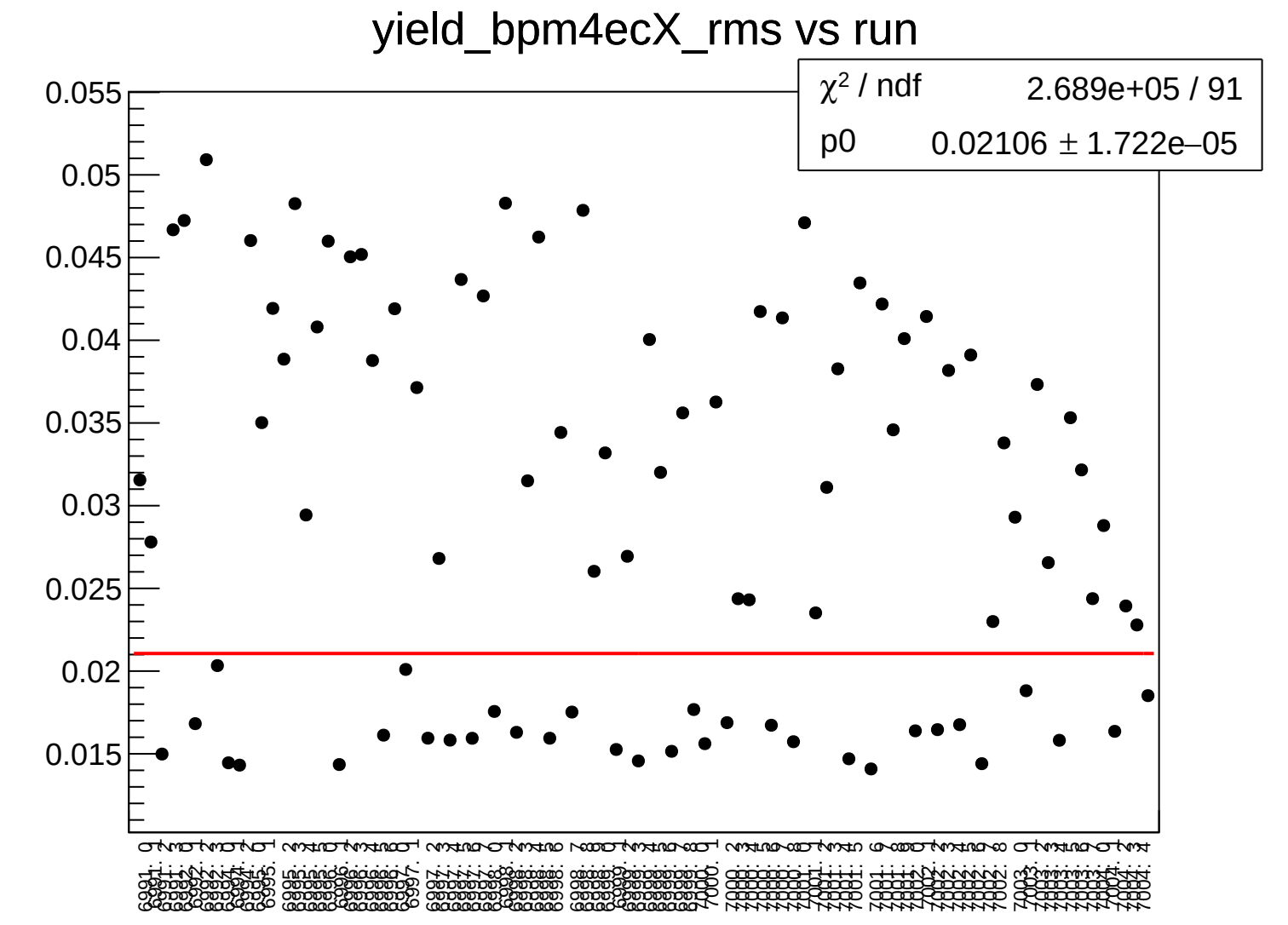

yield_bpm4acY_mean vs run
χ² / ndf 9.139e+04 / 91
p0 0.6347 ± 1.322e−05
0.65
0.645
0.64
0.635
0.63
0.625
pull
Entries 92
Mean −53.52
Std Dev 0
80
60
40
20
0
−20
−40
−60

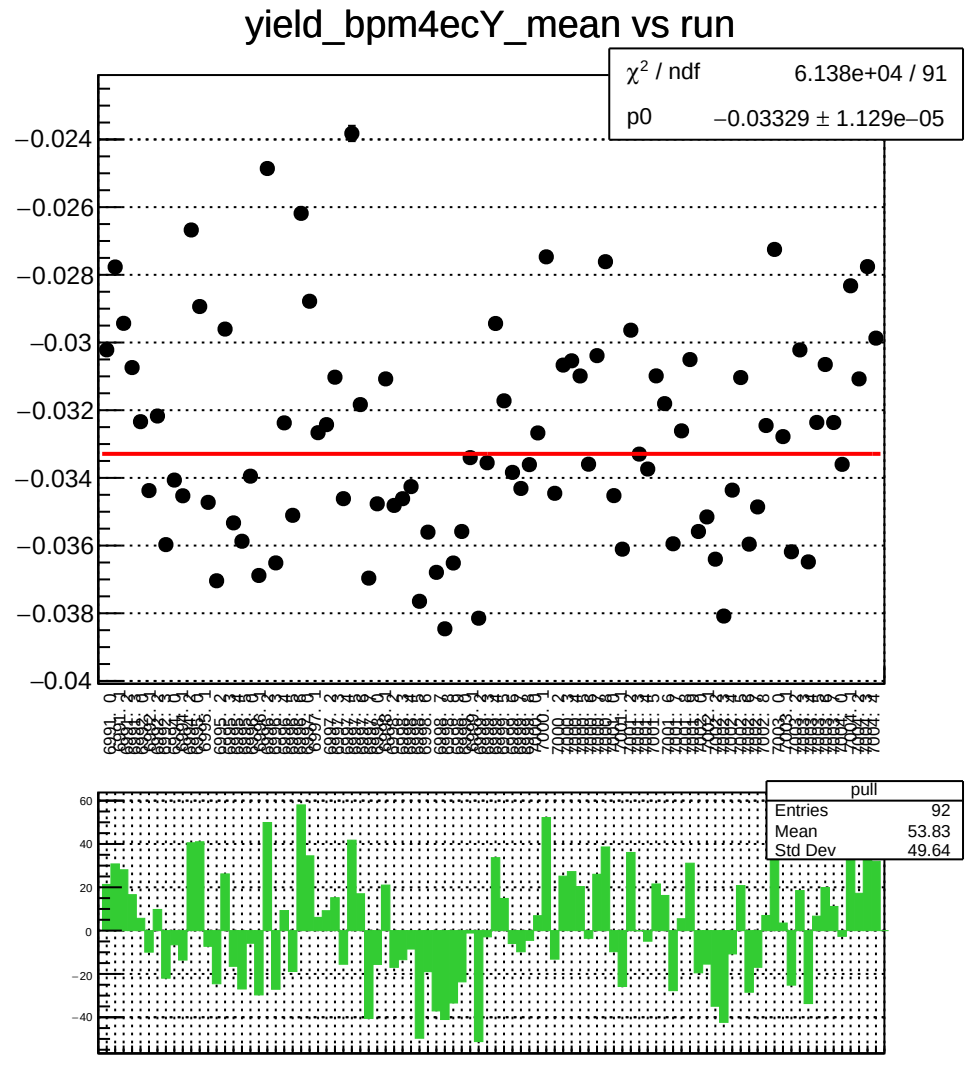

pull1D
Entries 92
Mean −0.5068
Std Dev 4.956
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

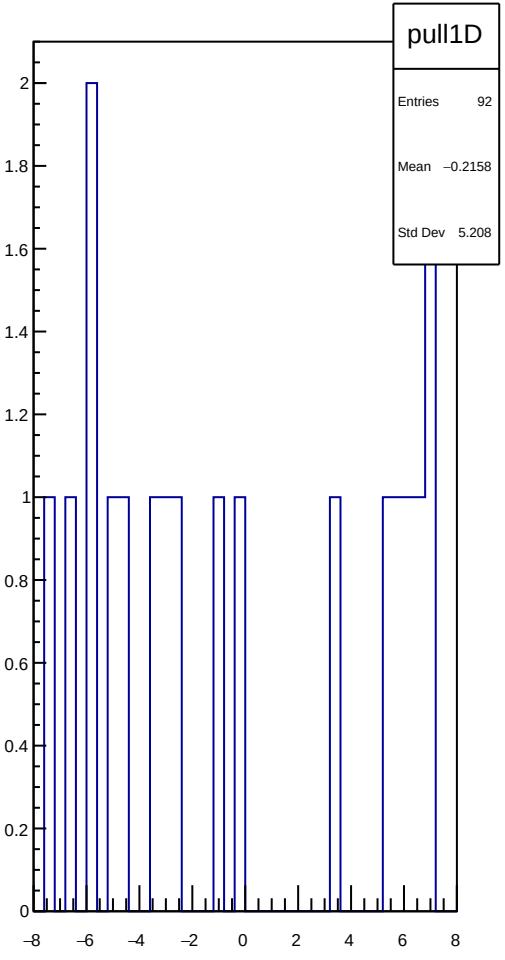

yield_bpm4acY_rms vs run
χ² / ndf 6.568e+04 / 91
p0 0.01219 ± 9.351e–06
0.035
0.03
0.025
0.02
0.015
0.01

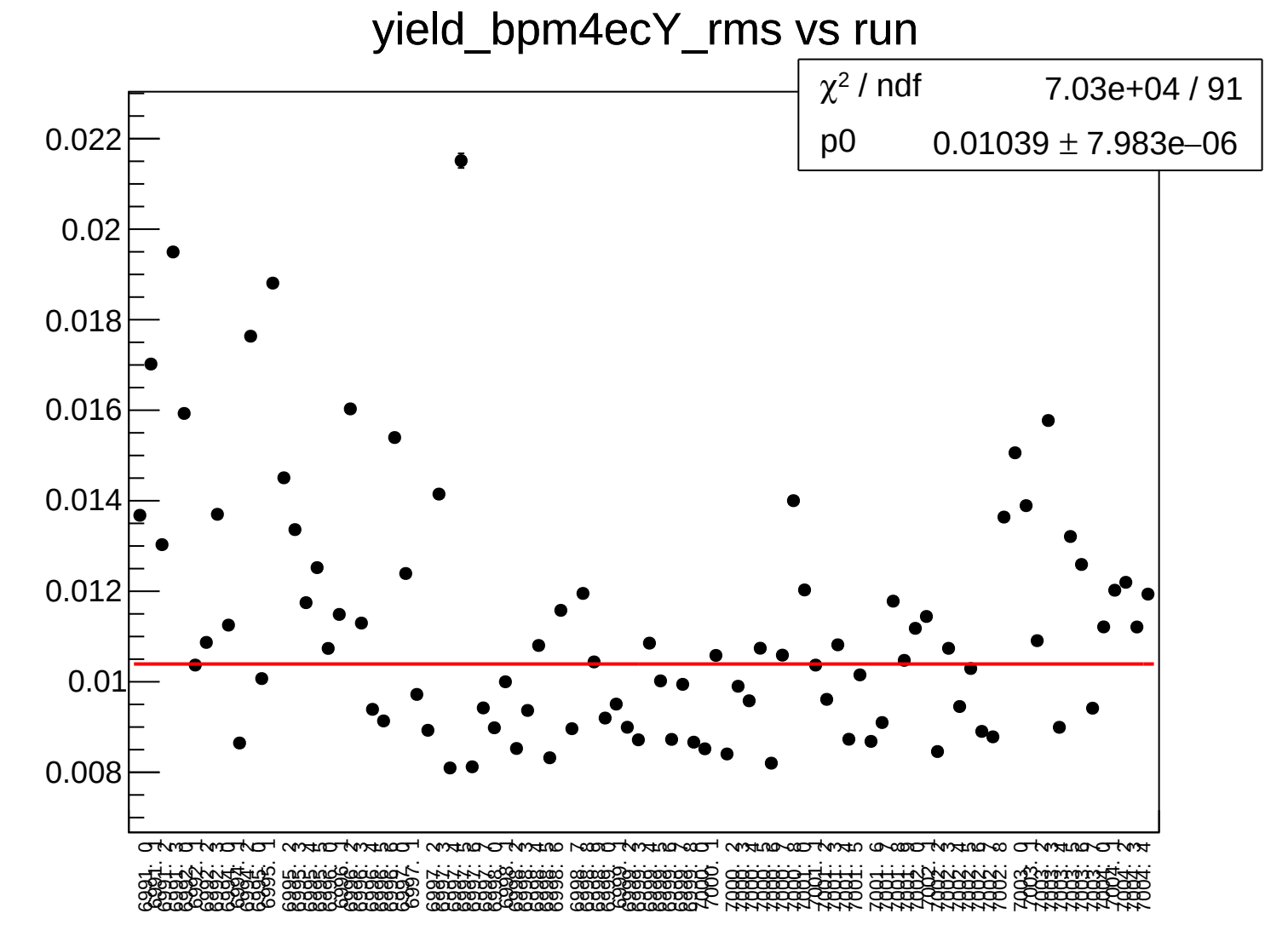

yield_bpm4ecX_mean vs run
χ² / ndf 1.923e+05 / 91
p0 −0.2625 ± 2.435e−05
pull
Entries 92
Mean 43.97
Std Dev 28.25

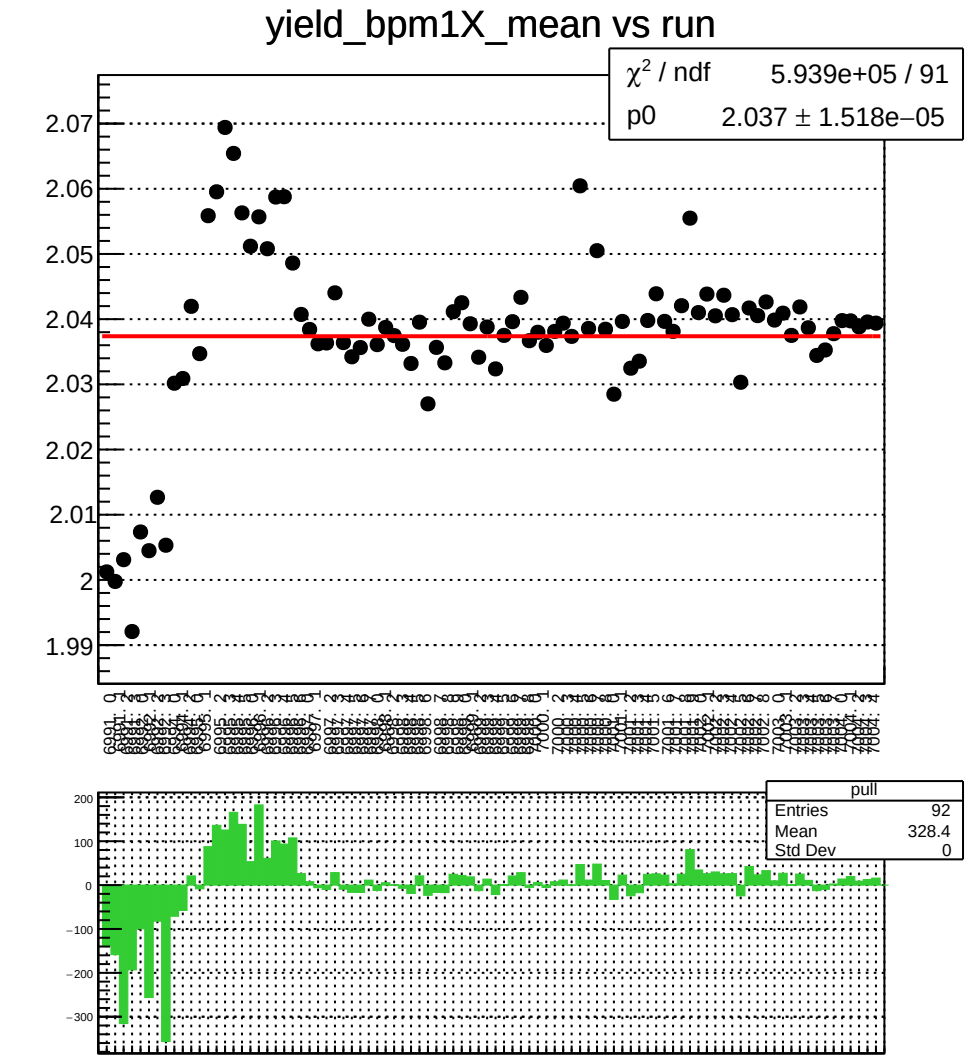

pull1D
Entries 92
Mean 3.181
Std Dev 3.08

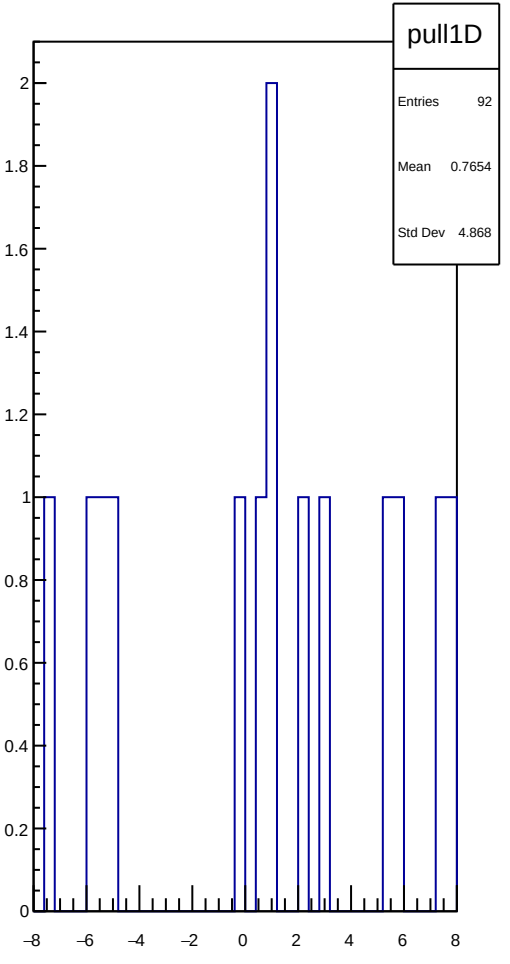

yield_bpm4ecX_rms vs run
χ² / ndf 2.689e+05 / 91
p0 0.02106 ± 1.722e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

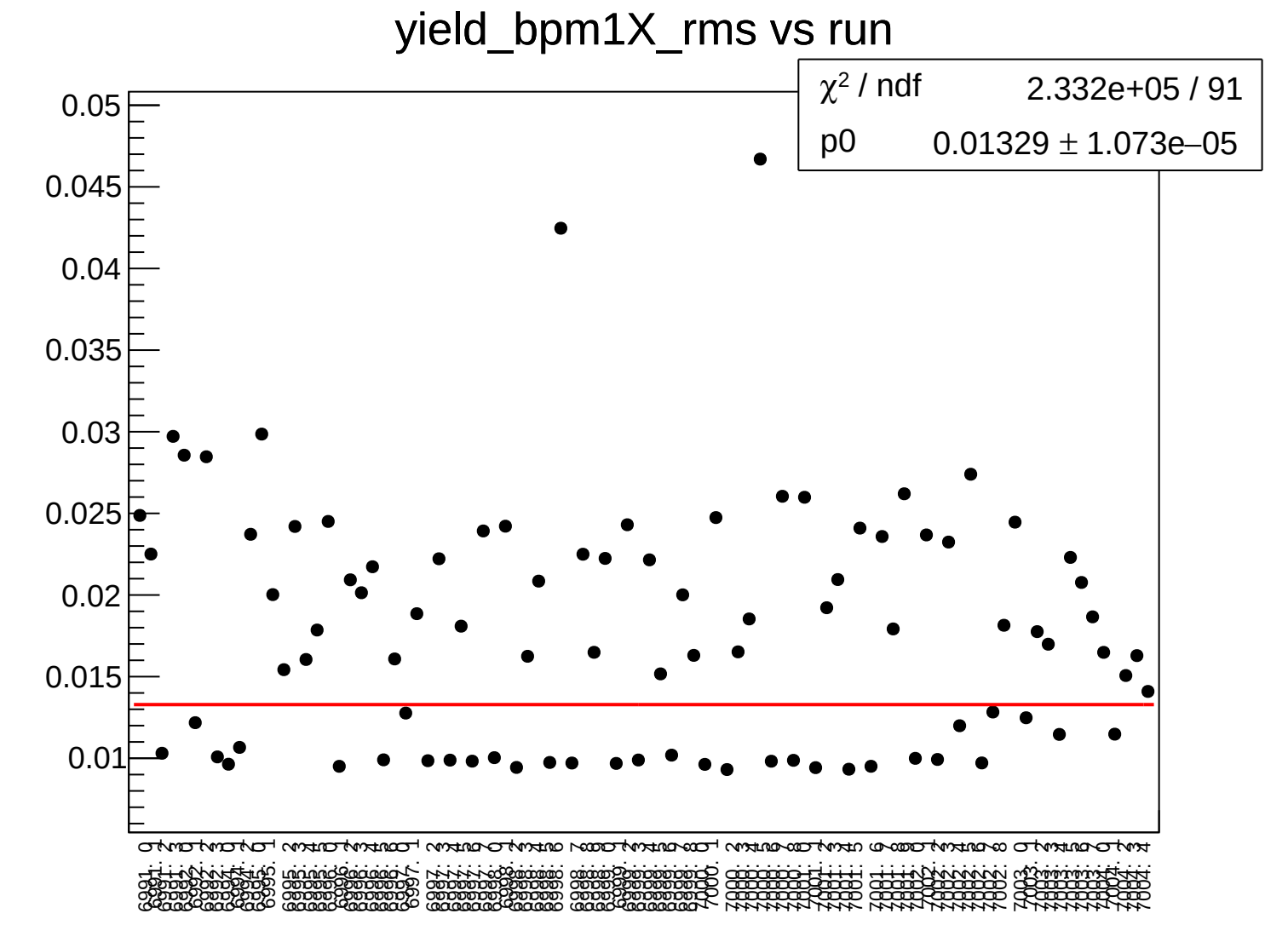

yield_bpm4ecY_mean vs run
χ² / ndf 6.138e+04 / 91
p0 −0.03329 ± 1.129e−05
−0.024
−0.026
−0.028
−0.03
−0.032
−0.034
−0.036
−0.038
−0.04
pull
Entries 92
Mean 53.83
Std Dev 49.64
60
40
20
0
−20
−40

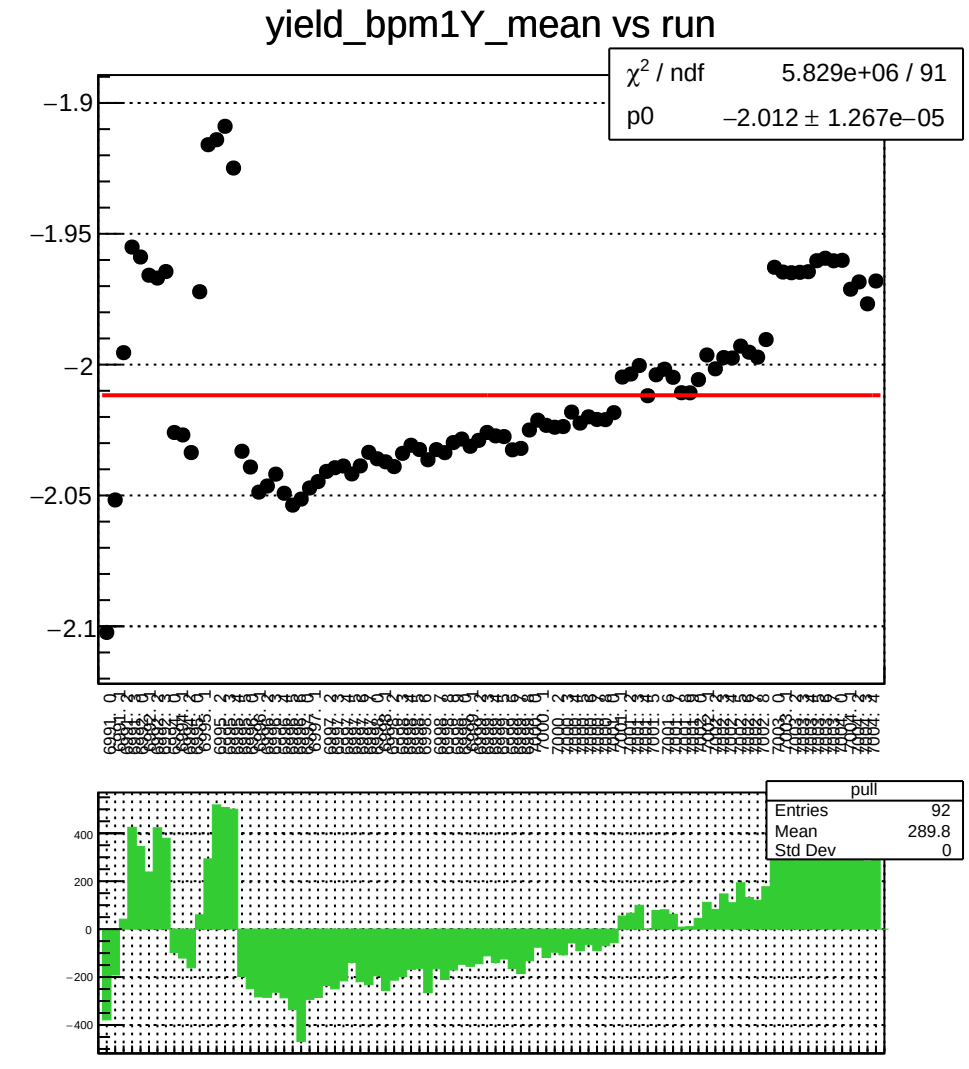

pull1D
Entries 92
Mean −0.2158
Std Dev 5.208
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

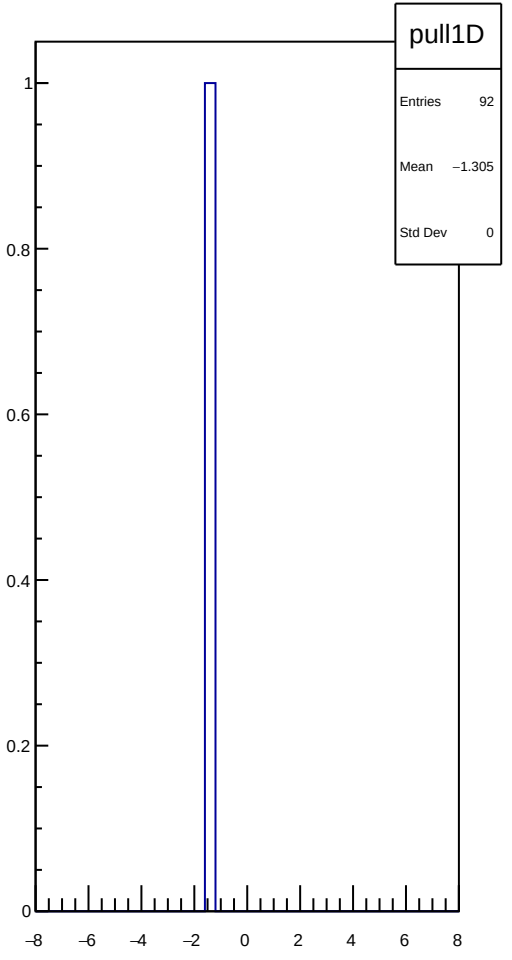

yield_bpm4ecY_rms vs run
χ² / ndf 7.03e+04 / 91
p0 0.01039 ± 7.983e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

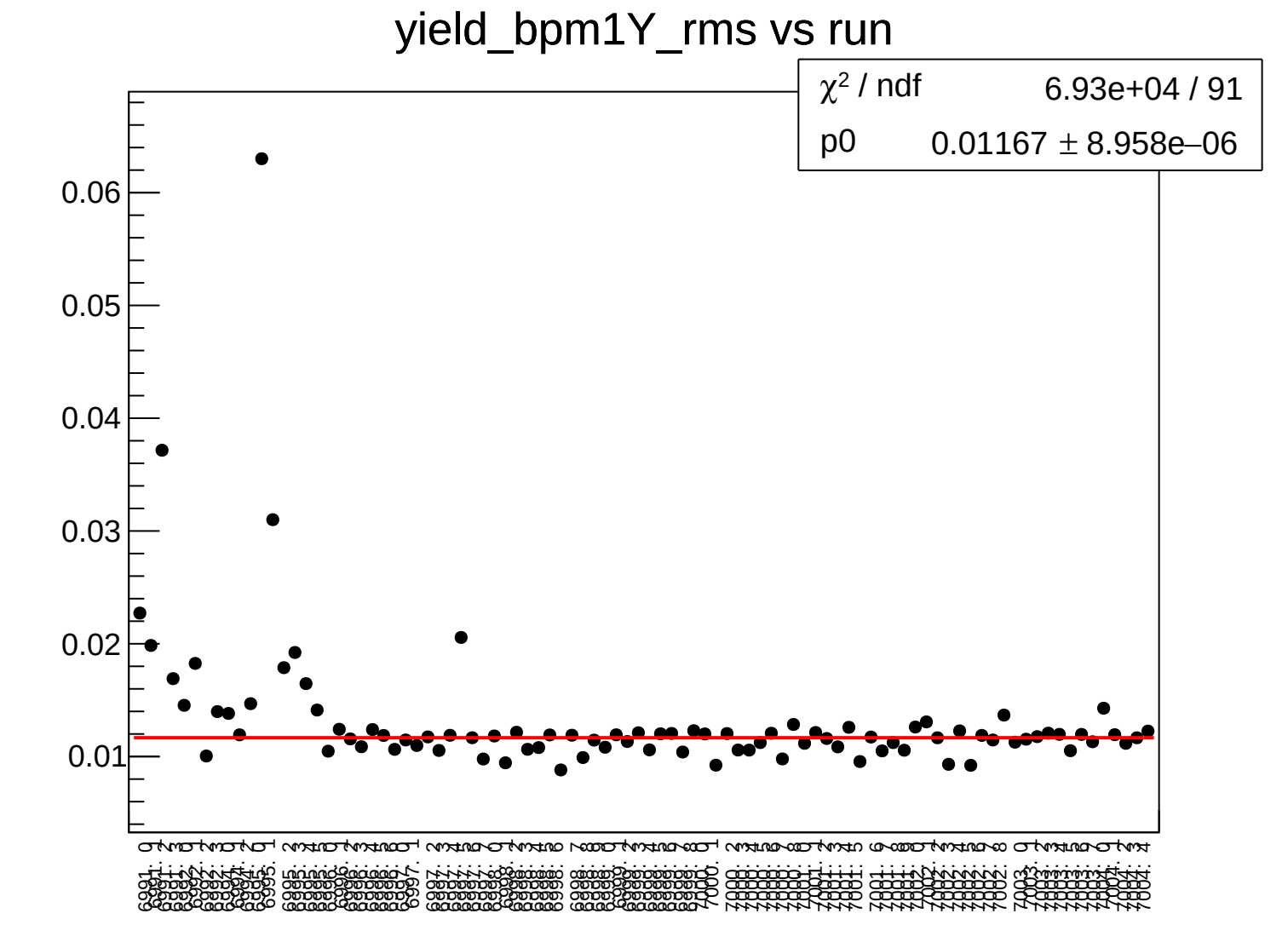

yield_bpm1X_mean vs run
χ² / ndf 5.939e+05 / 91
p0 2.037 ± 1.518e−05
2.07
2.06
2.05
2.04
2.03
2.02
2.01
2
1.99
pull
Entries 92
Mean 328.4
Std Dev 0
200
100
0
−100
−200
−300

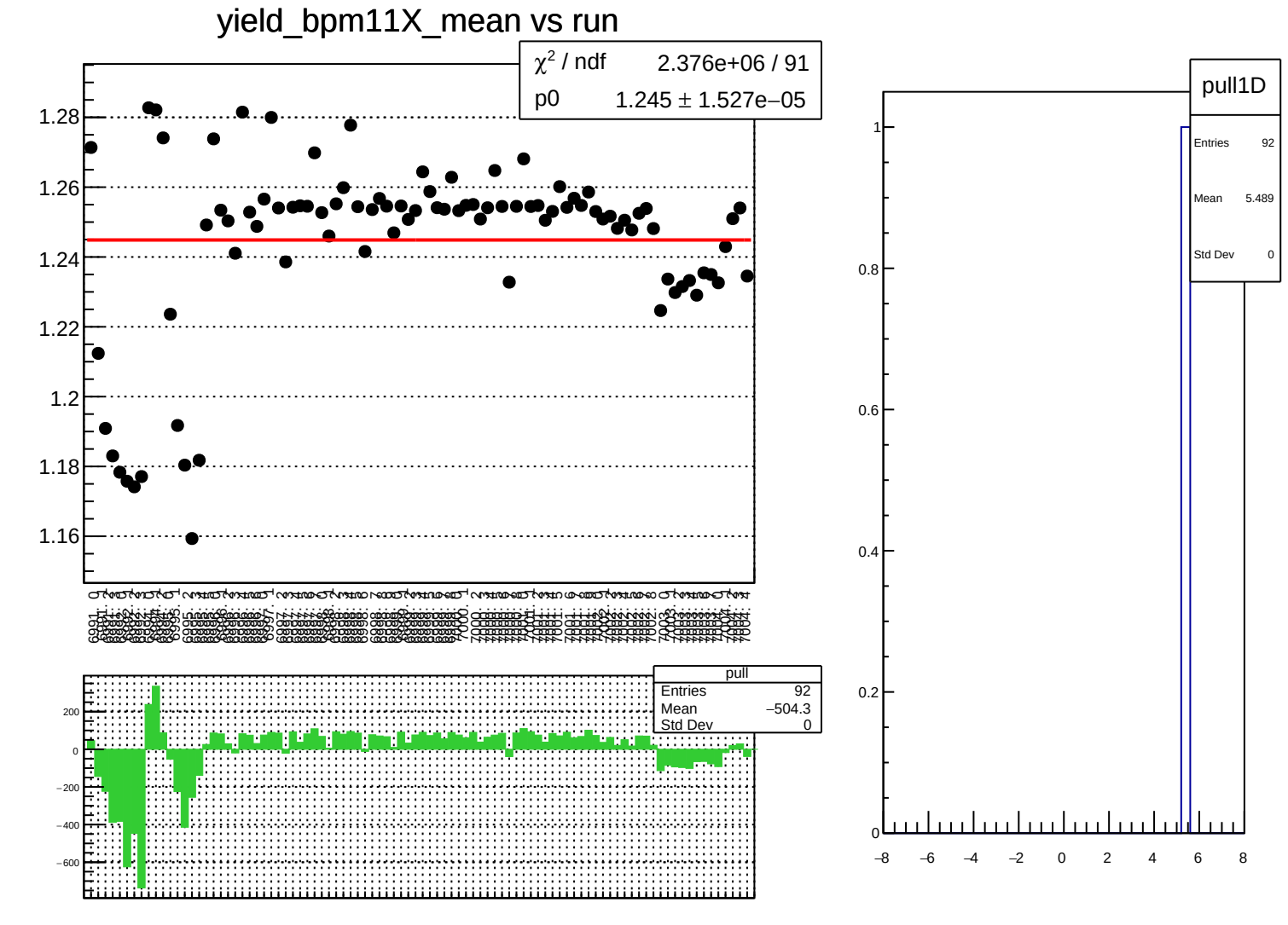

pull1D
Entries 92
Mean 0.7654
Std Dev 4.868
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

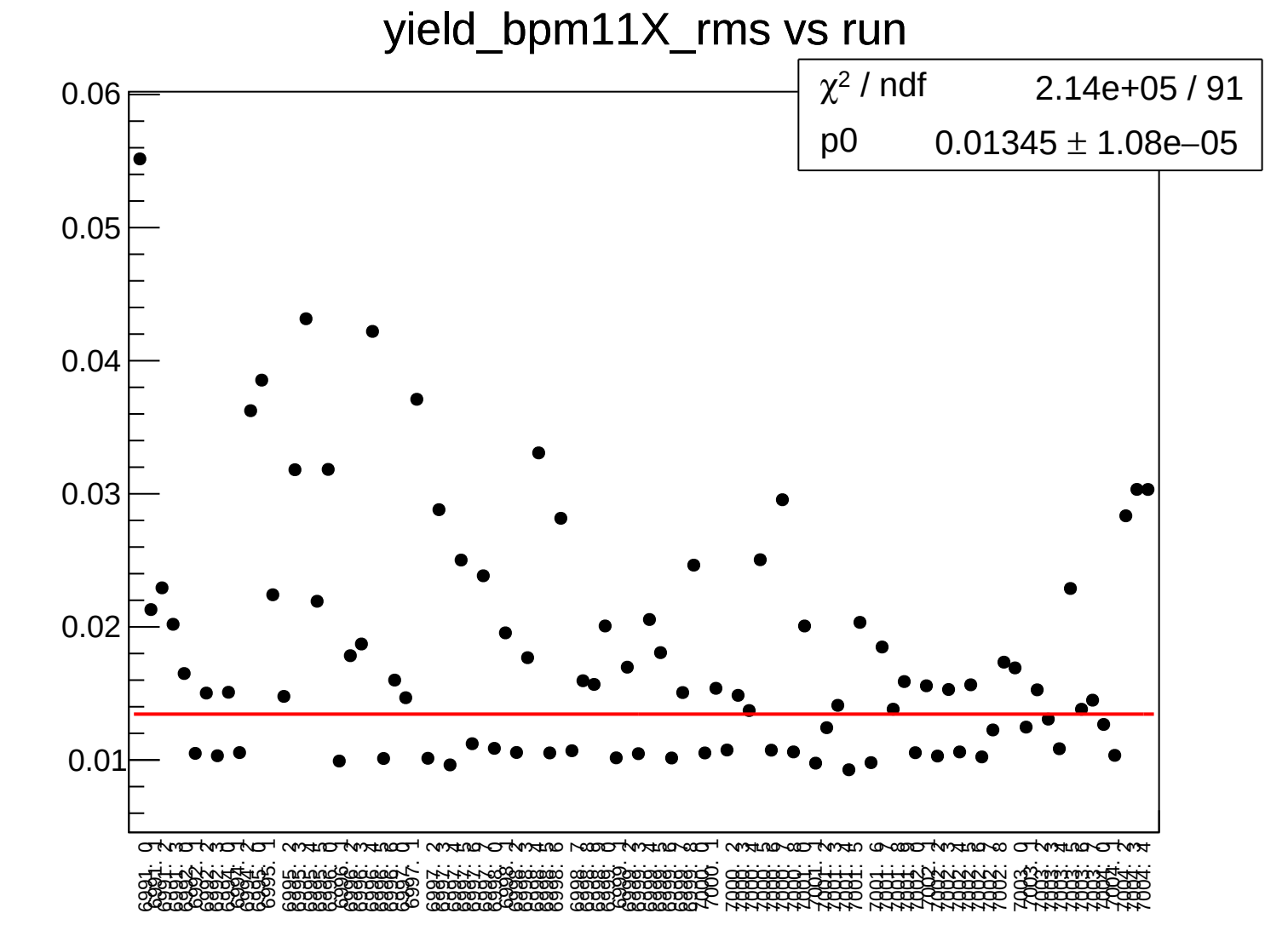

yield_bpm1X_rms vs run
χ² / ndf 2.332e+05 / 91
p0 0.01329 ± 1.073e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

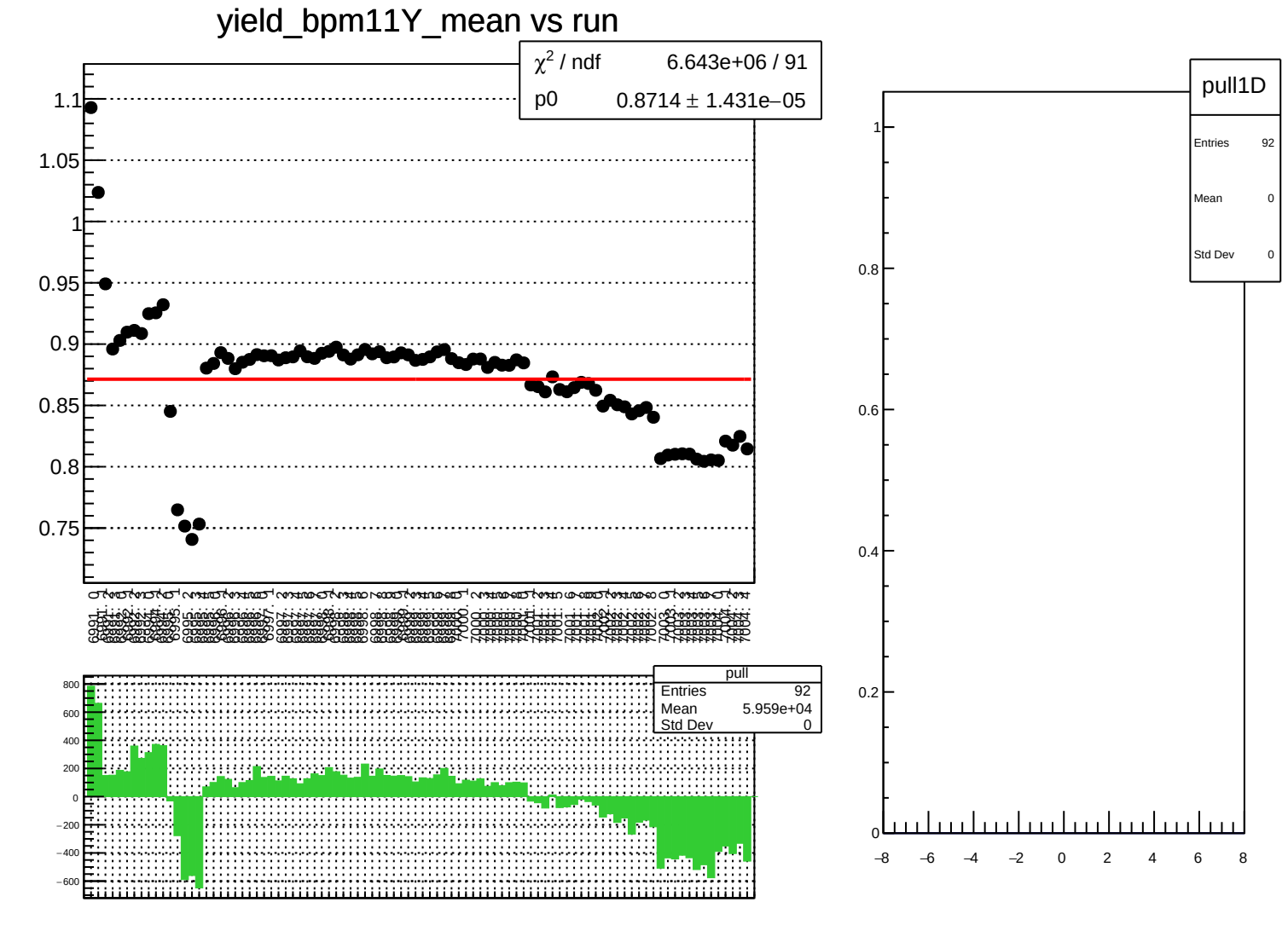

yield_bpm1Y_mean vs run
χ² / ndf 5.829e+06 / 91
p0 −2.012 ± 1.267e−05
−1.9
−1.95
−2
−2.05
−2.1
pull
Entries 92
Mean 289.8
Std Dev 0
400
200
0
−200
−400

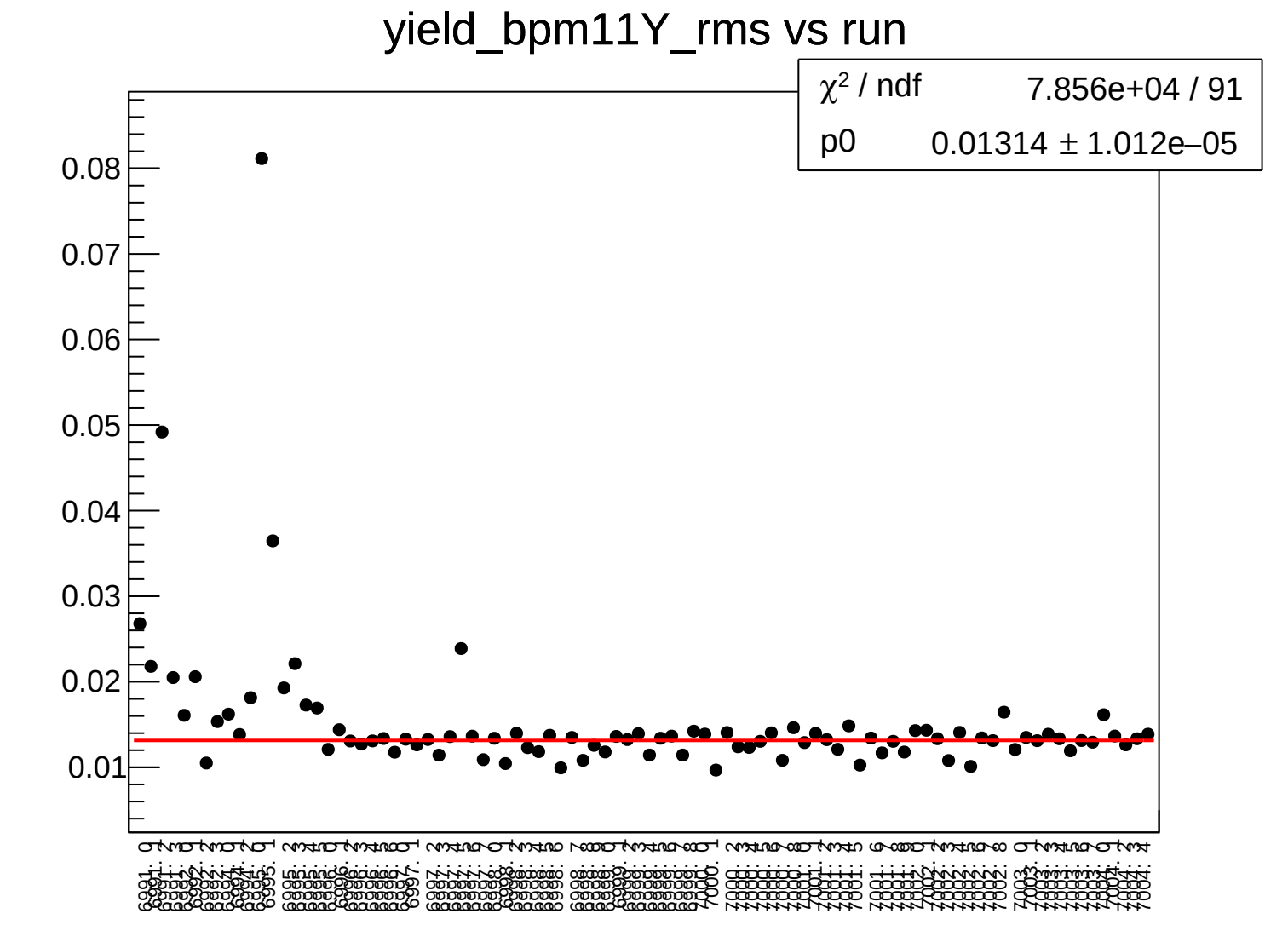

pull1D
Entries 92
Mean −1.305
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

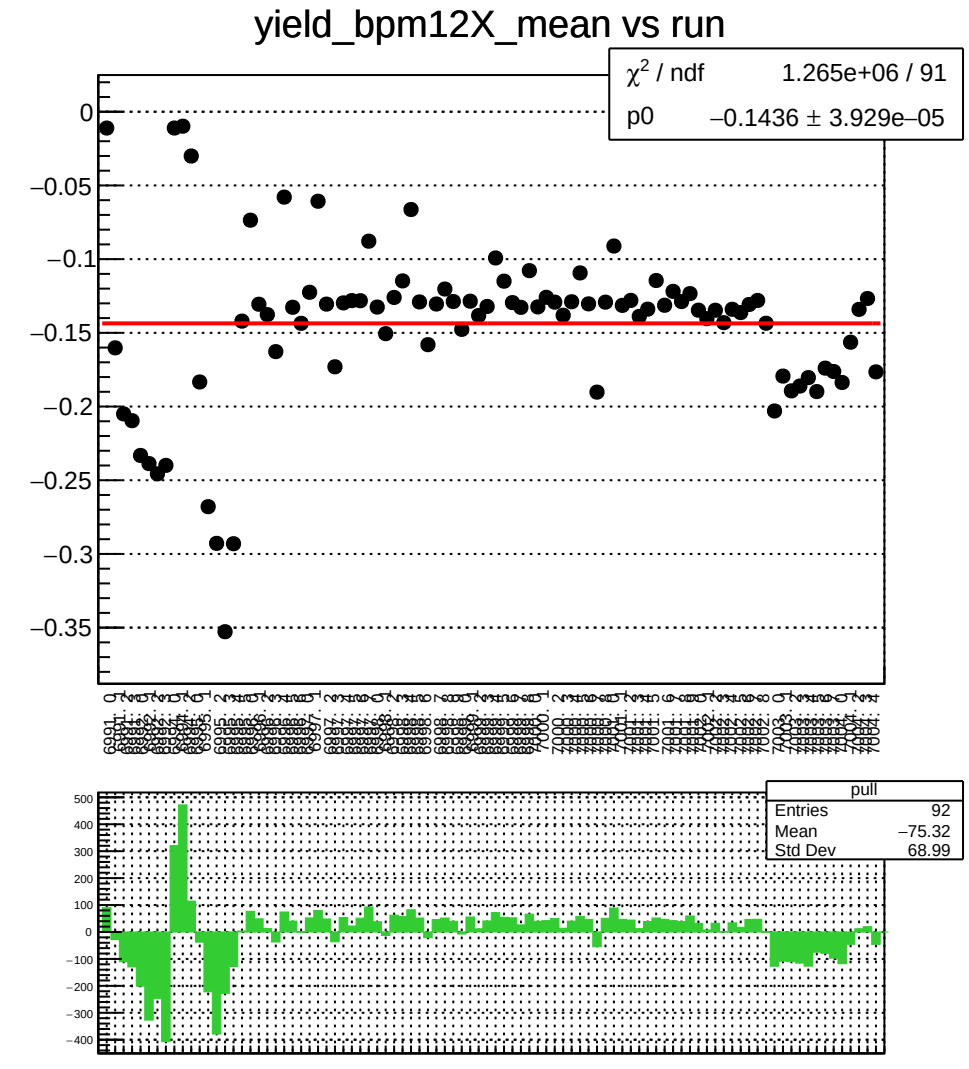

yield_bpm1Y_rms vs run
χ² / ndf 6.93e+04 / 91
p0 0.01167 ± 8.958e–06
0.06
0.05
0.04
0.03
0.02
0.01

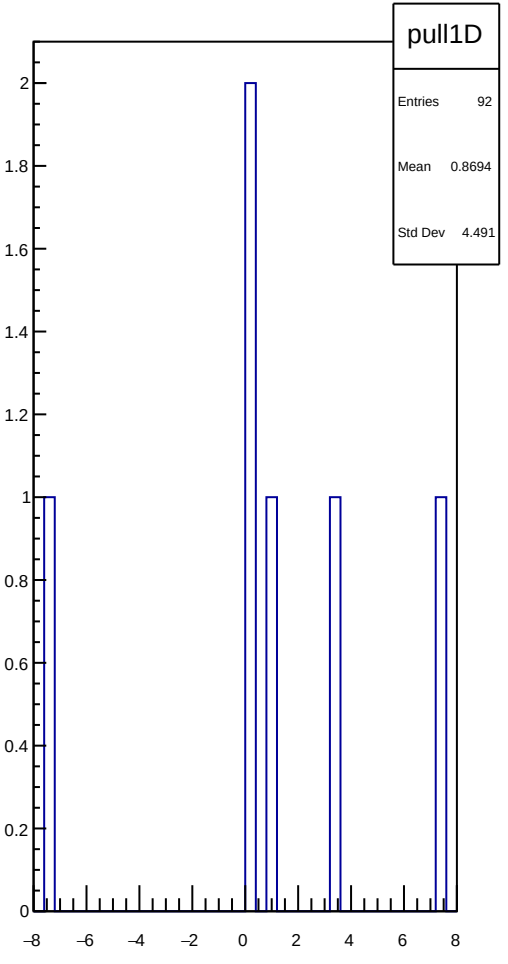

yield_bpm11X_mean vs run
χ² / ndf 2.376e+06 / 91
p0 1.245 ± 1.527e−05
1.28
1.26
1.24
1.22
1.2
1.18
1.16
pull
Entries 92
Mean −504.3
Std Dev 0
200
0
−200
−400
−600
pull1D
Entries 92
Mean 5.489
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

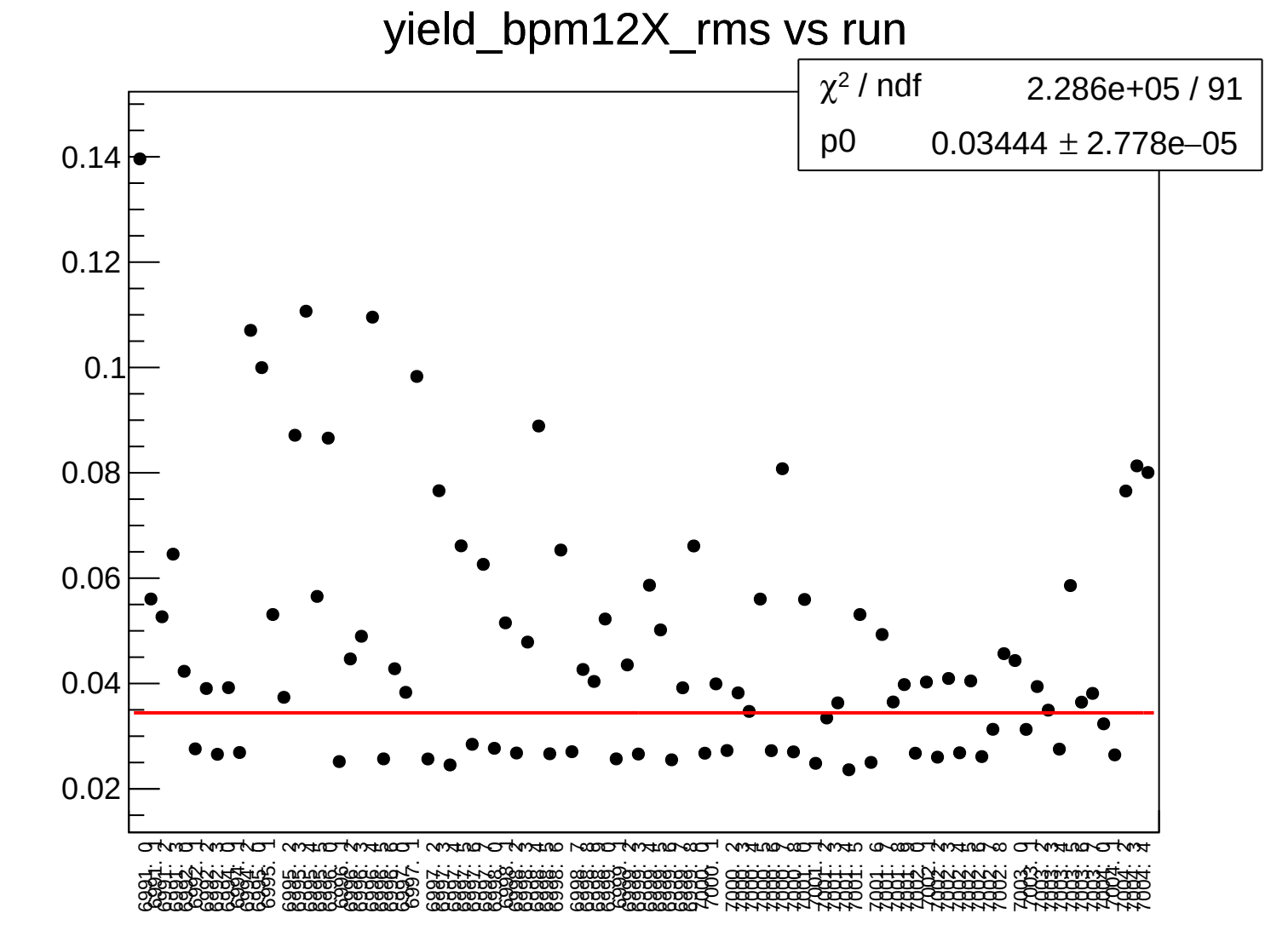

yield_bpm11X_rms vs run
χ² / ndf 2.14e+05 / 91
p0 0.01345 ± 1.08e−05
0.06
0.05
0.04
0.03
0.02
0.01

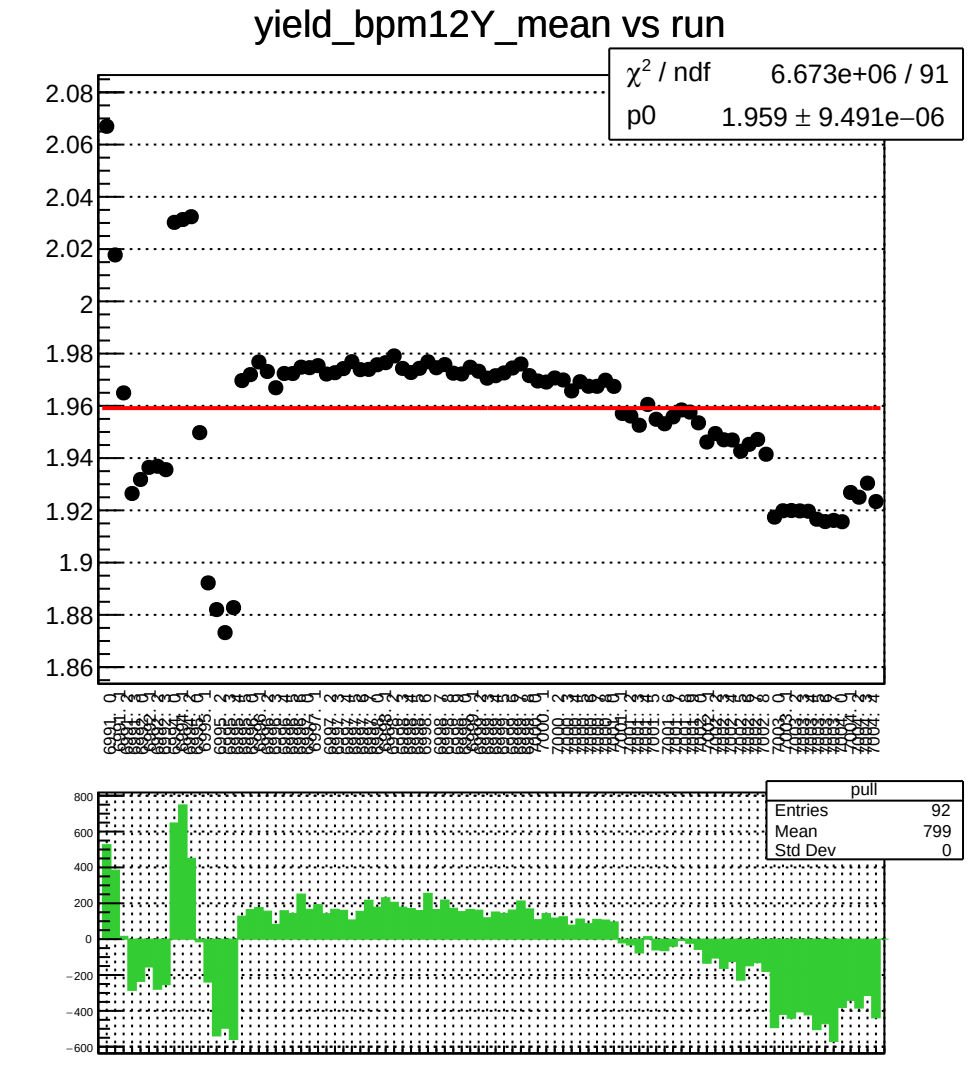

yield_bpm11Y_mean vs run
χ² / ndf 6.643e+06 / 91
p0 0.8714 ± 1.431e−05
pull
Entries 92
Mean 5.959e+04
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0

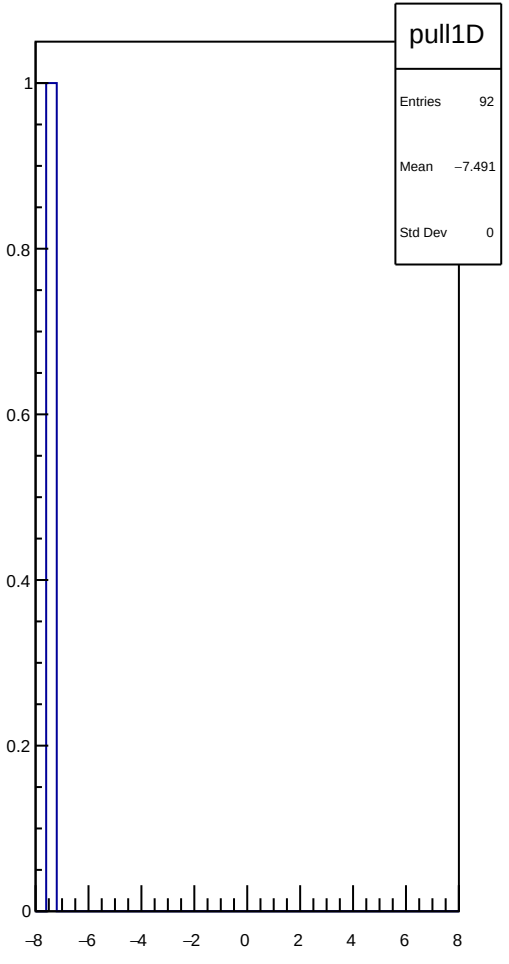

yield_bpm11Y_rms vs run
χ² / ndf 7.856e+04 / 91
p0 0.01314 ± 1.012e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

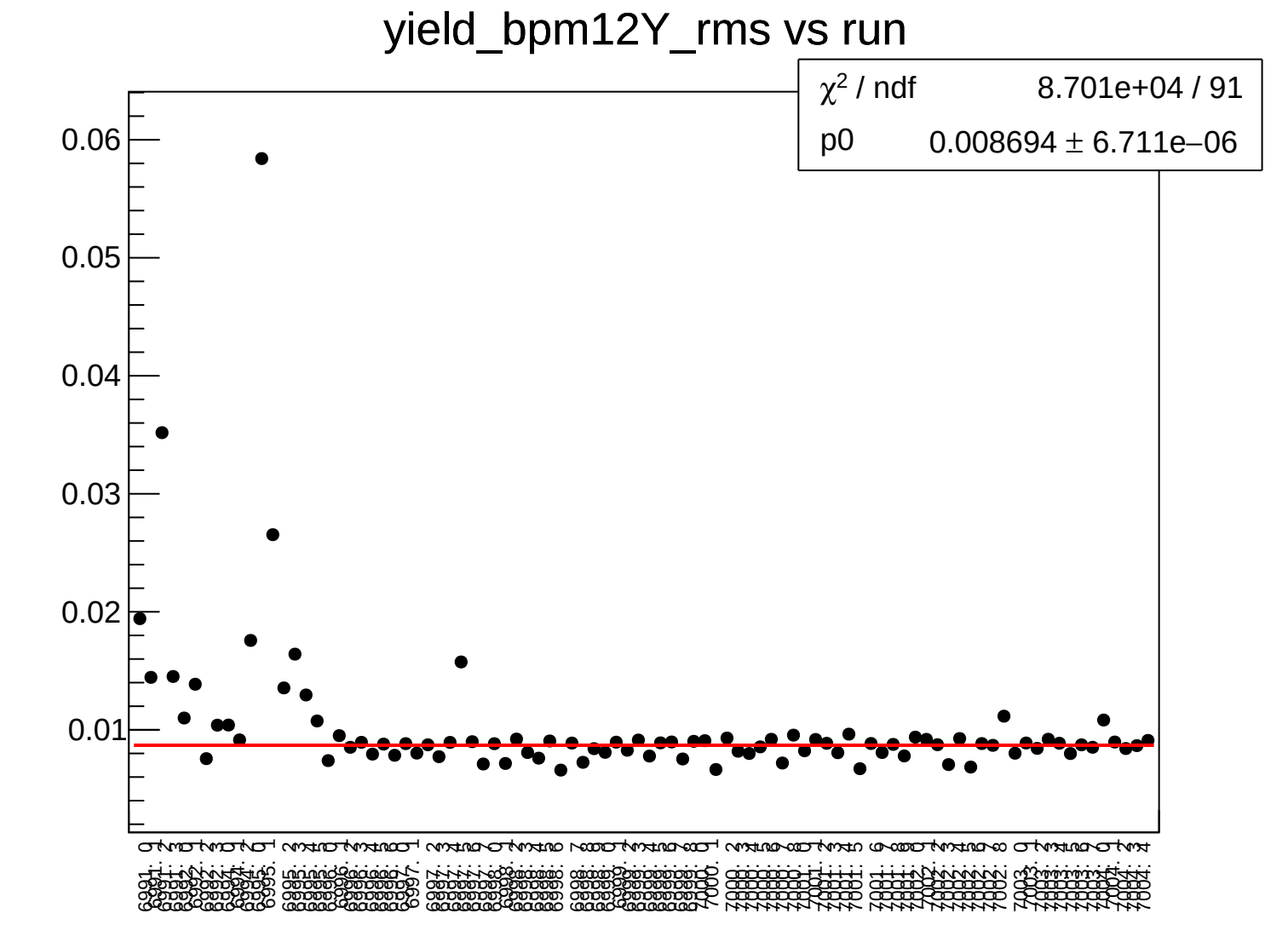

yield_bpm12X_mean vs run
χ² / ndf 1.265e+06 / 91
p0 −0.1436 ± 3.929e−05
pull
Entries 92
Mean −75.32
Std Dev 68.99

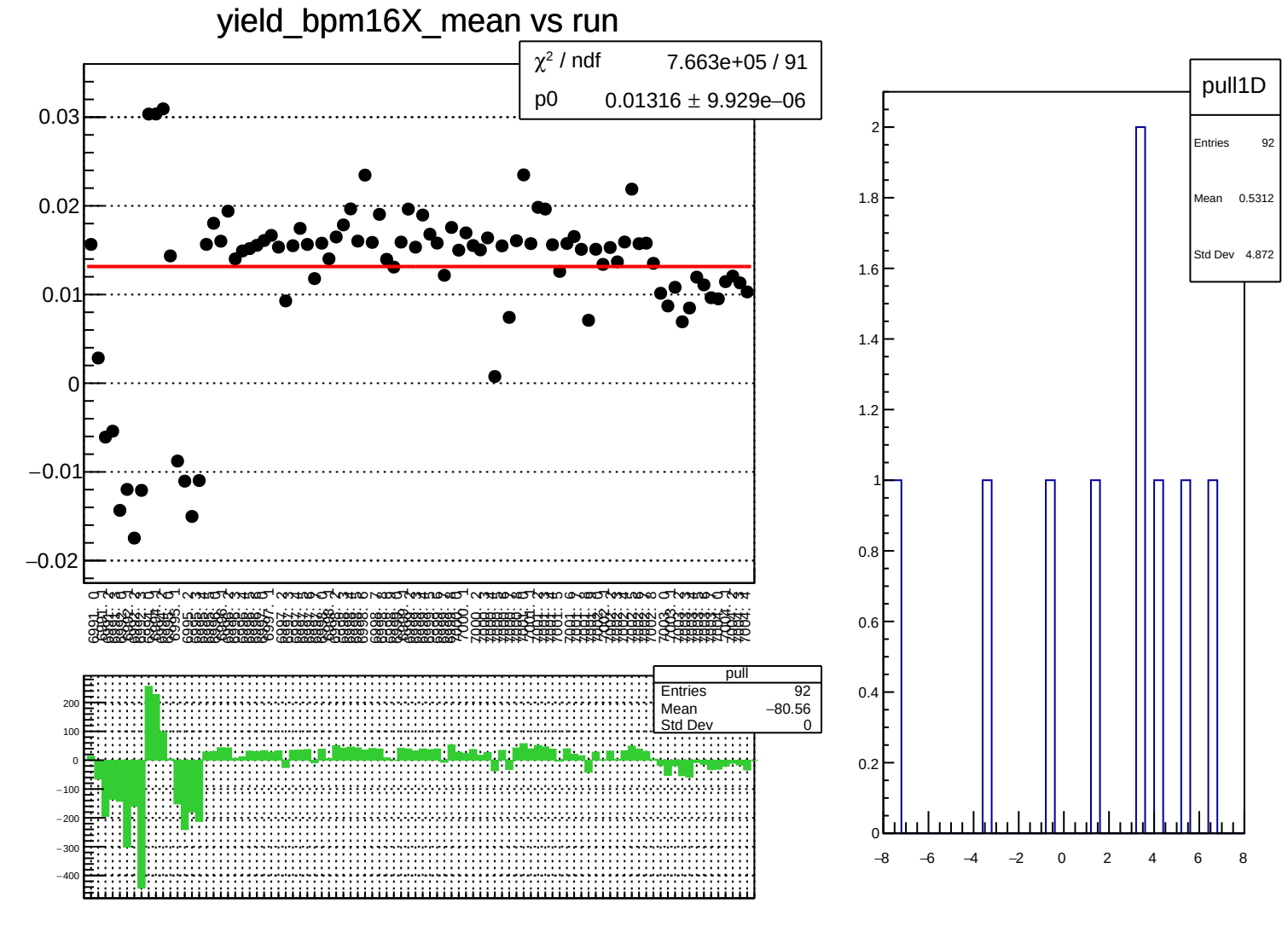

pull1D
Entries 92
Mean 0.8694
Std Dev 4.491

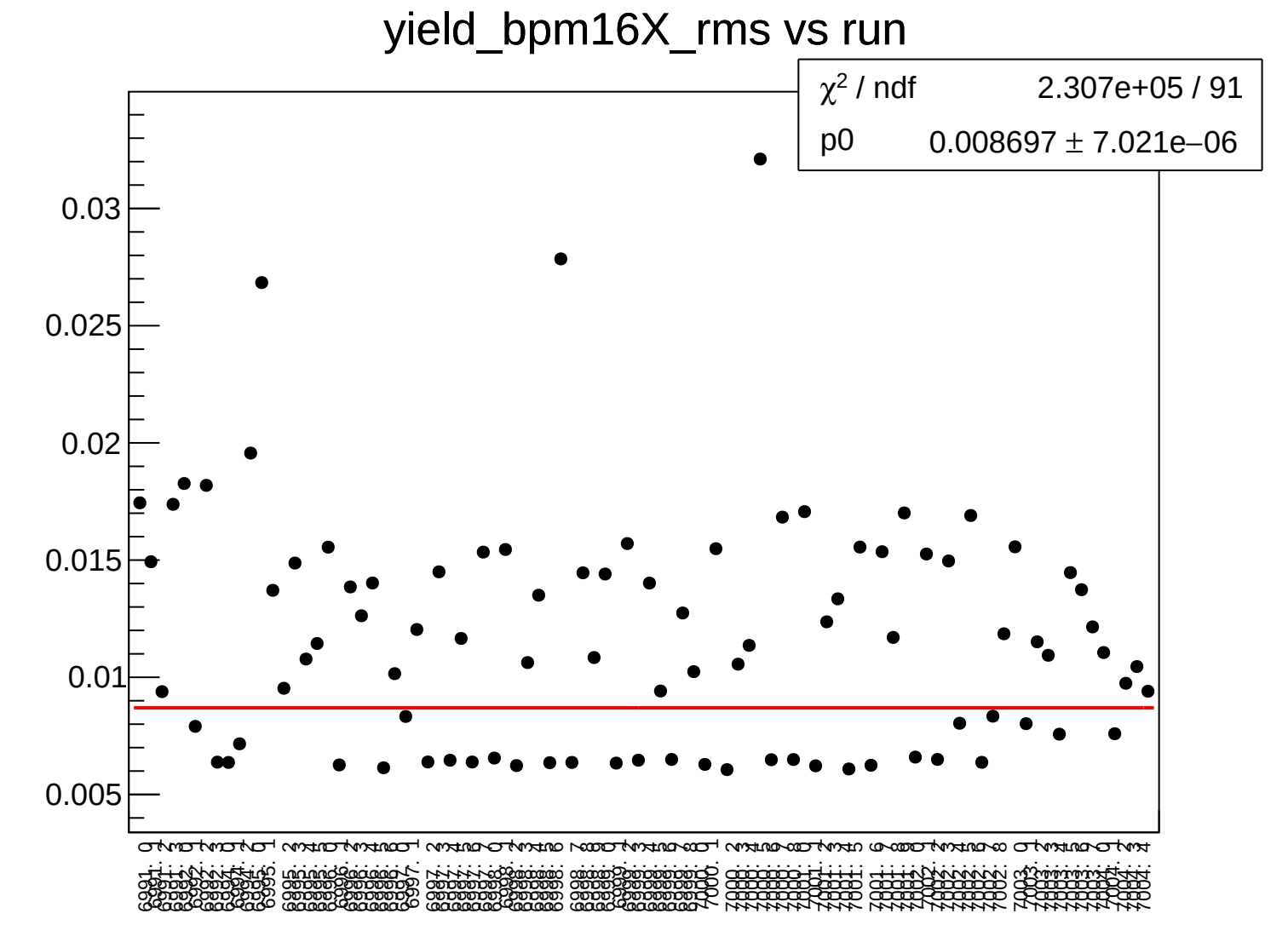

yield_bpm12X_rms vs run
χ² / ndf 2.286e+05 / 91
p0 0.03444 ± 2.778e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

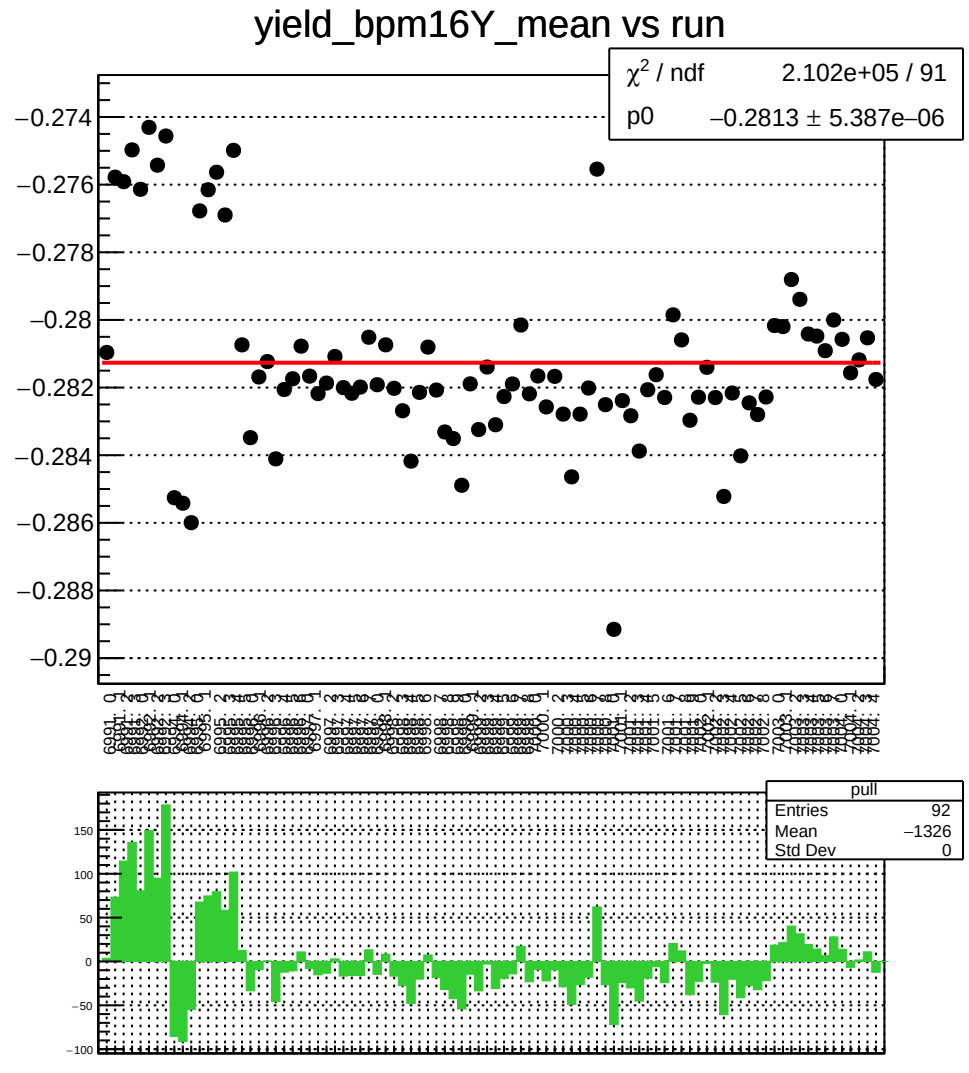

yield_bpm12Y_mean vs run
χ² / ndf 6.673e+06 / 91
p0 1.959 ± 9.491e−06
pull
Entries 92
Mean 799
Std Dev 0

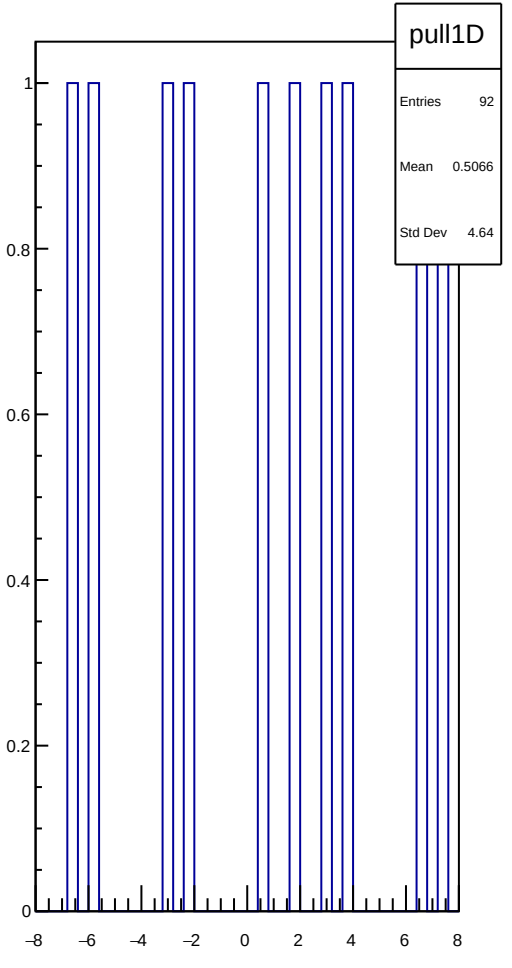

pull1D
Entries 92
Mean −7.491
Std Dev 0

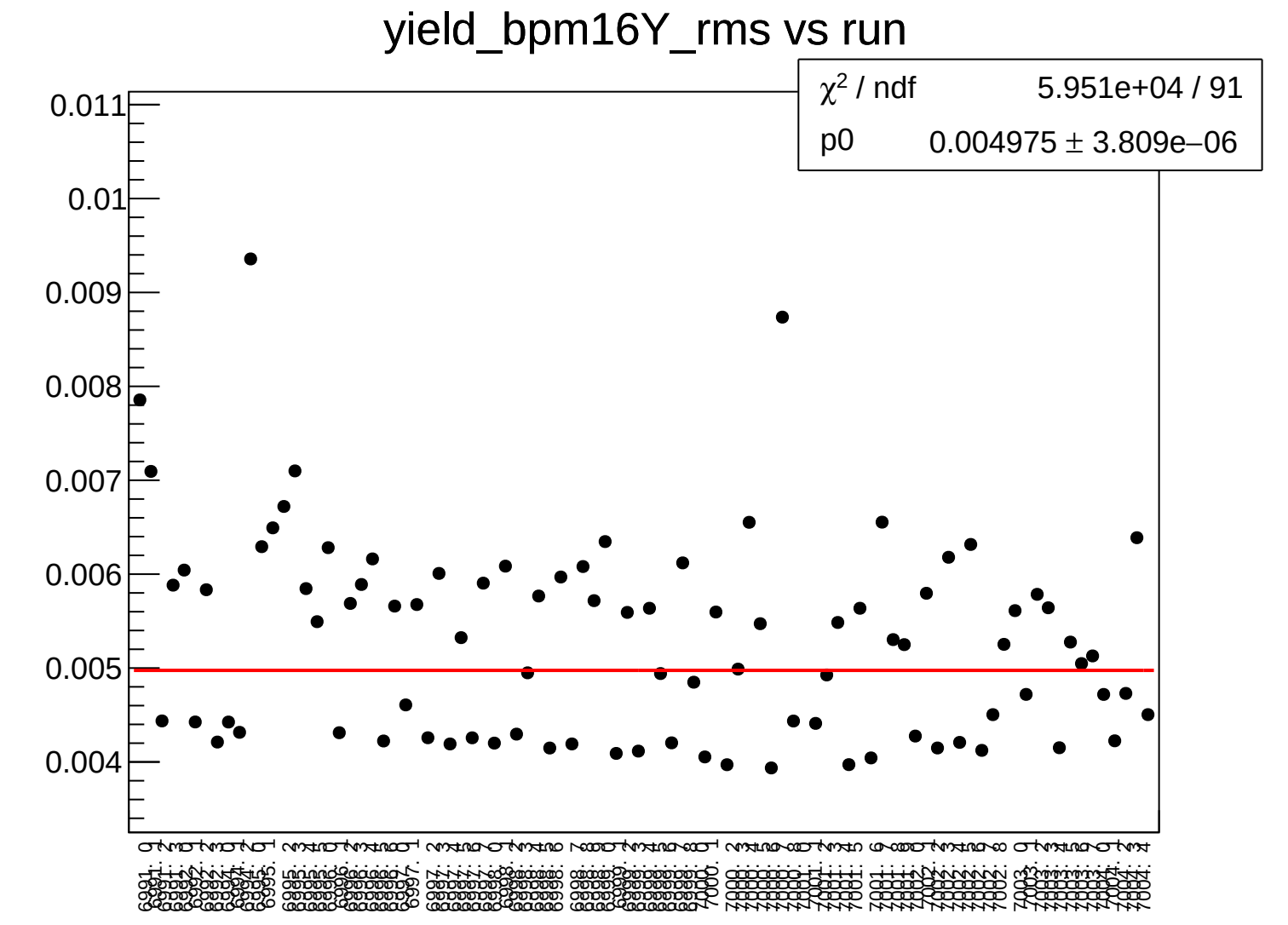

yield_bpm12Y_rms vs run
χ² / ndf 8.701e+04 / 91
p0 0.008694 ± 6.711e−06
0.06
0.05
0.04
0.03
0.02
0.01

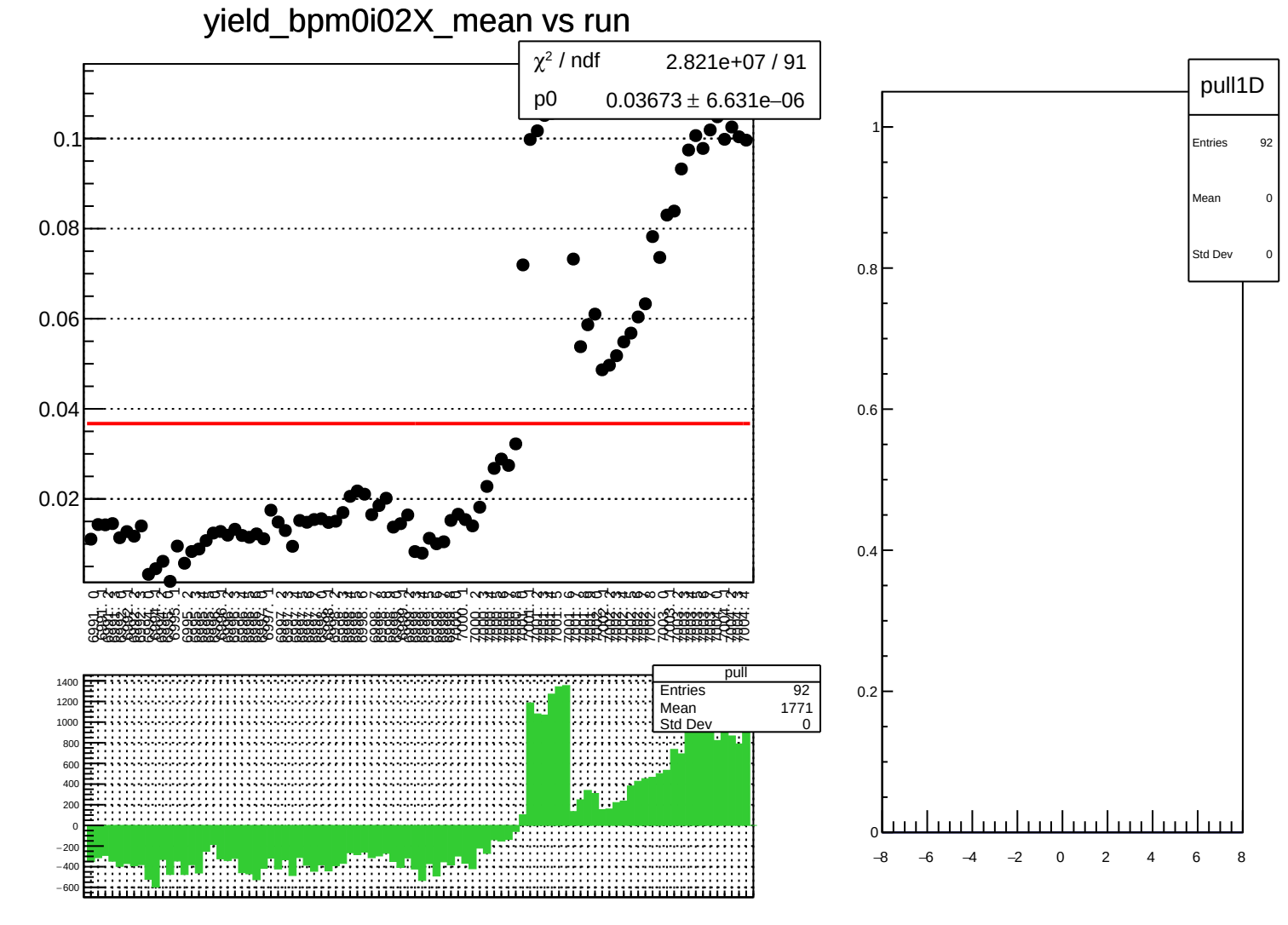

yield_bpm16X_mean vs run
χ² / ndf 7.663e+05 / 91
p0 0.01316 ± 9.929e−06
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −80.56
Std Dev 0
200
100
0
−100
−200
−300
−400
pull1D
Entries 92
Mean 0.5312
Std Dev 4.872
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

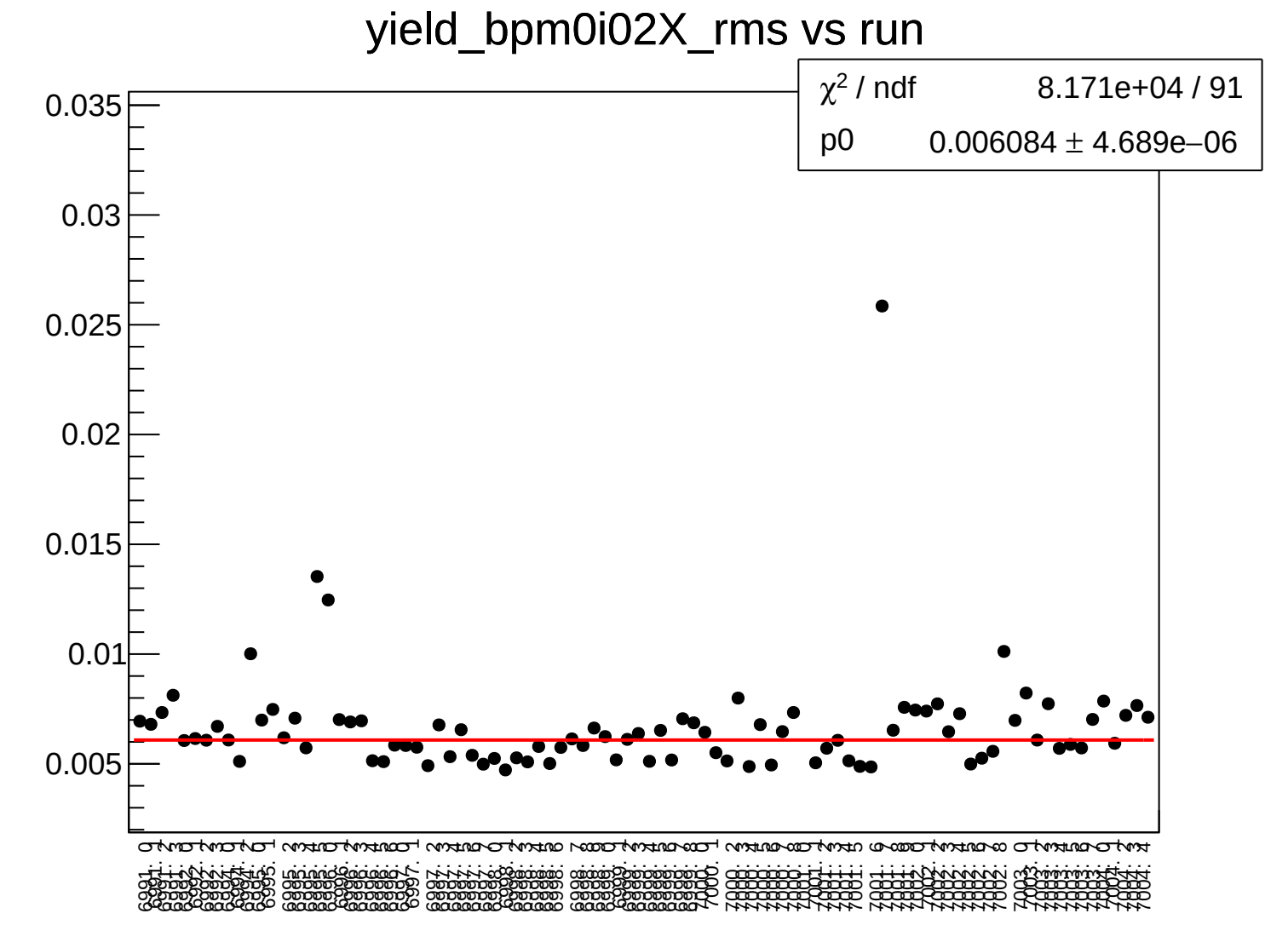

yield_bpm16X_rms vs run
χ² / ndf 2.307e+05 / 91
p0 0.008697 ± 7.021e−06
0.03
0.025
0.02
0.015
0.01
0.005

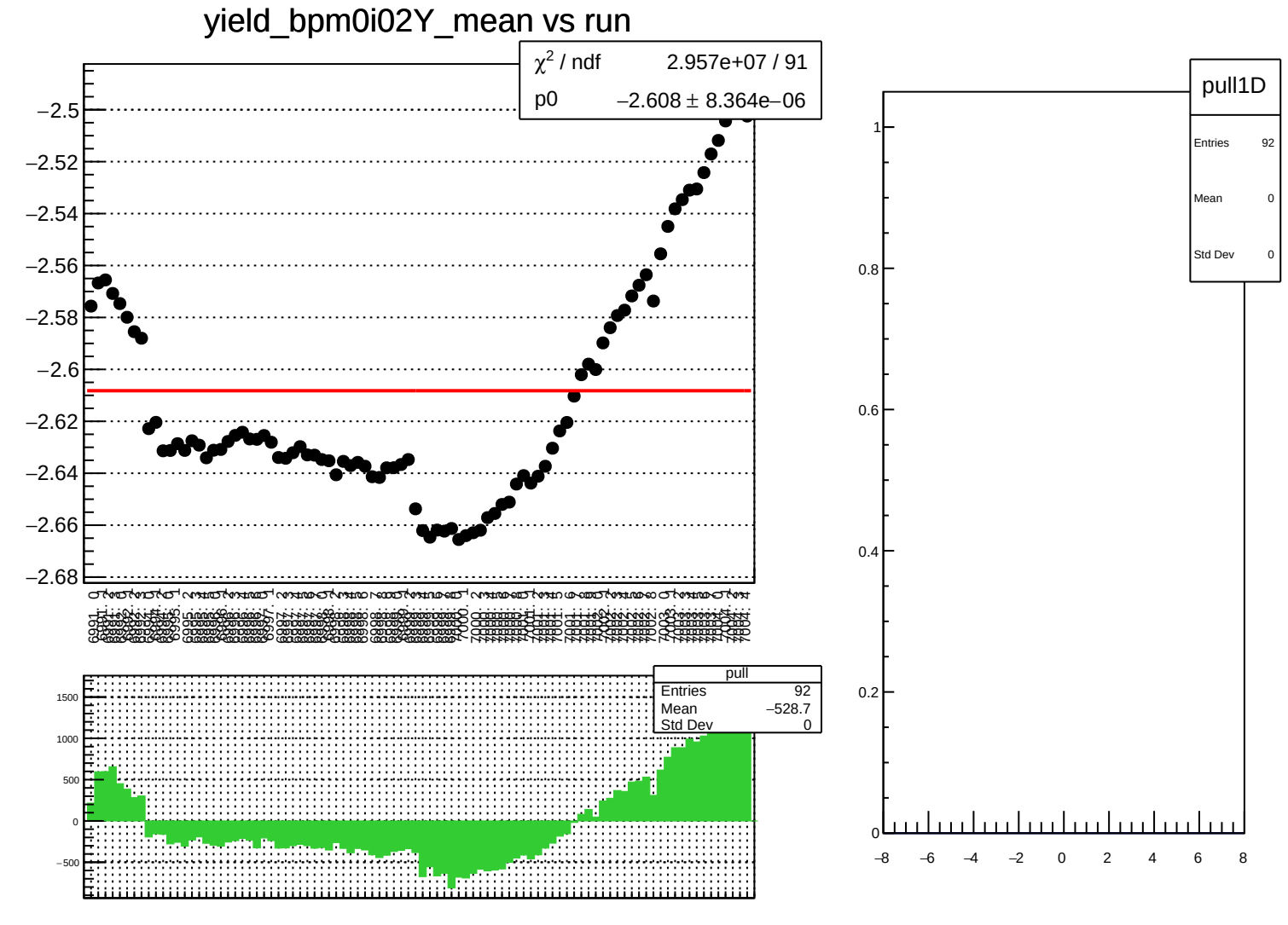

yield_bpm16Y_mean vs run
χ² / ndf 2.102e+05 / 91
p0 −0.2813 ± 5.387e−06
−0.274
−0.276
−0.278
−0.28
−0.282
−0.284
−0.286
−0.288
−0.29
pull
Entries 92
Mean −1326
Std Dev 0
150
100
50
0
−50
−100

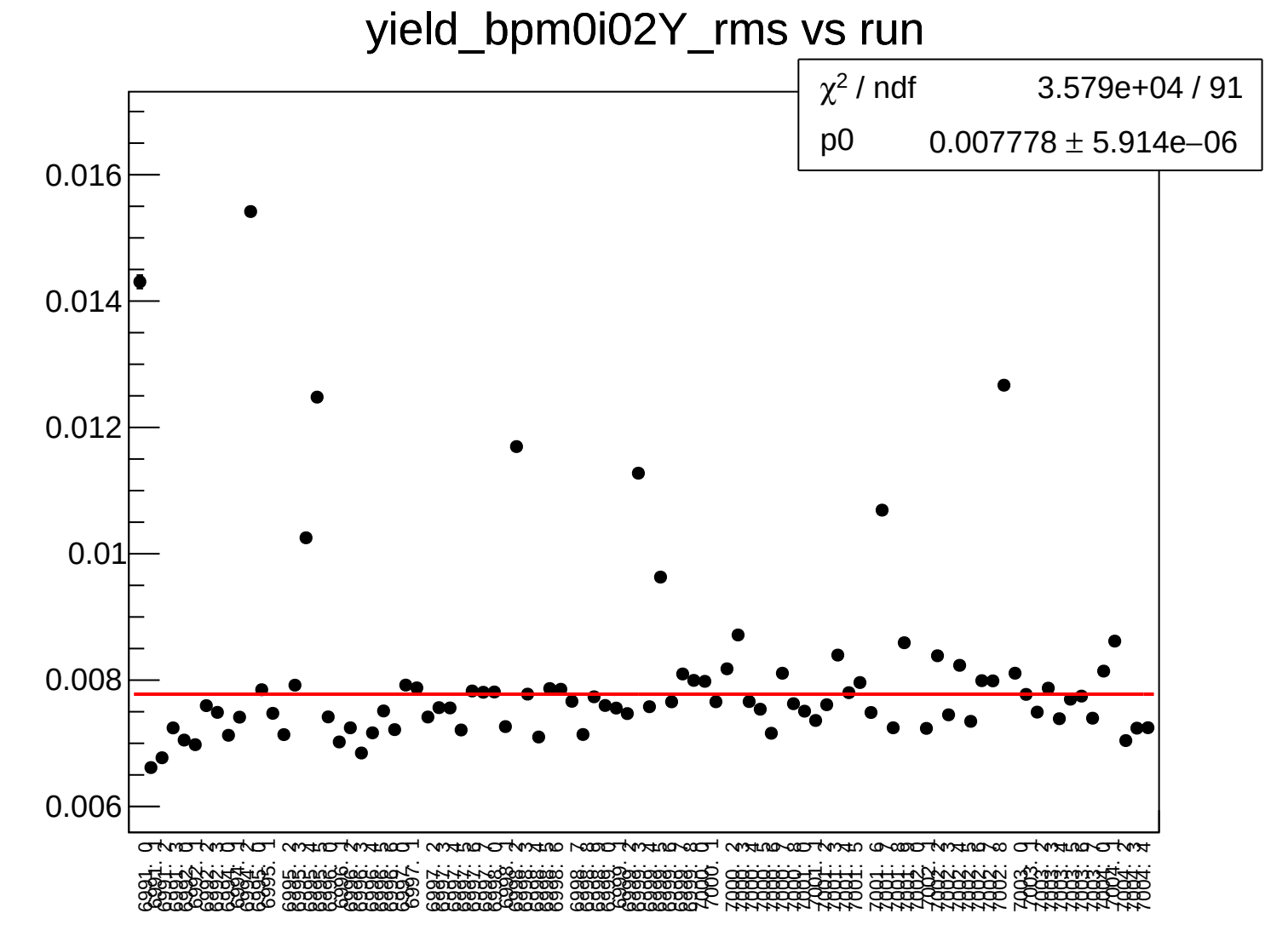

pull1D
Entries 92
Mean 0.5066
Std Dev 4.64
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

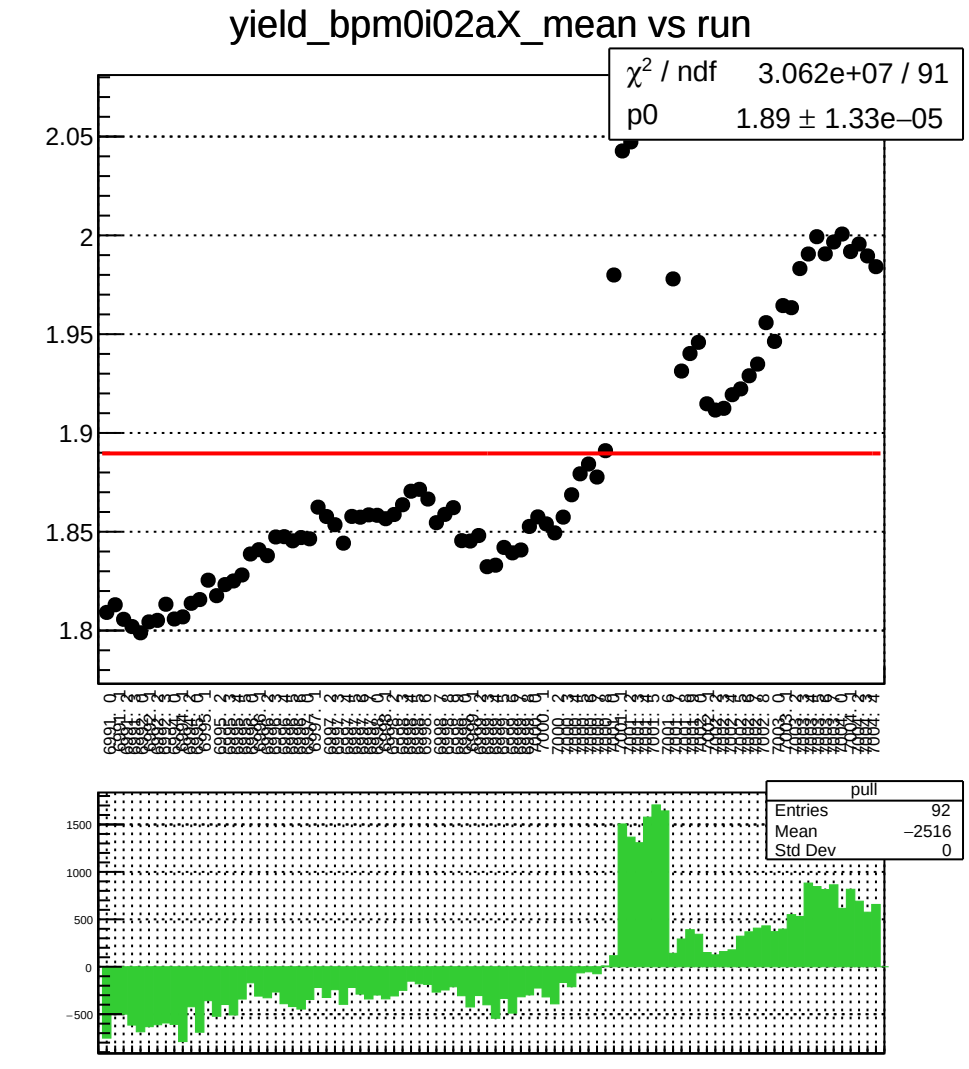

yield_bpm16Y_rms vs run
χ² / ndf 5.951e+04 / 91
p0 0.004975 ± 3.809e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

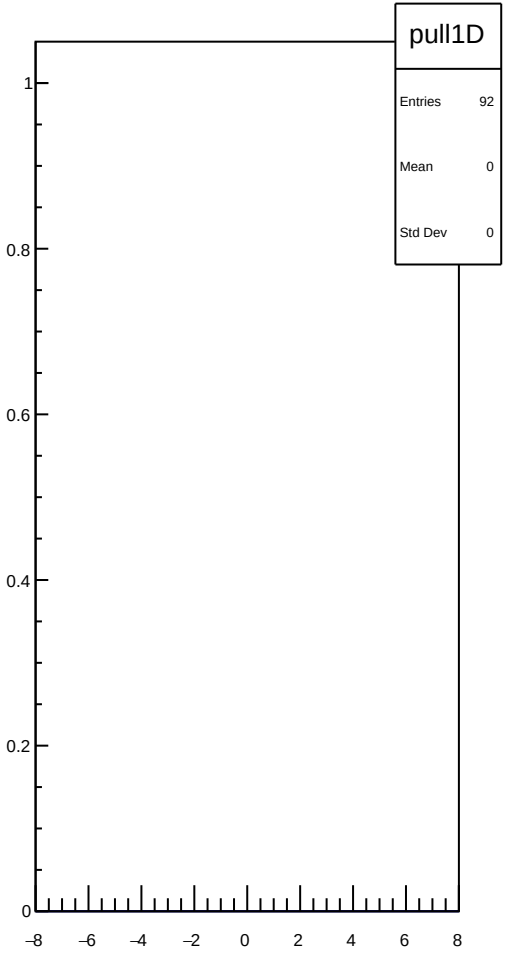

yield_bpm0i02X_mean vs run
χ² / ndf 2.821e+07 / 91
p0 0.03673 ± 6.631e−06
0.1
0.08
0.06
0.04
0.02
pull
Entries 92
Mean 1771
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

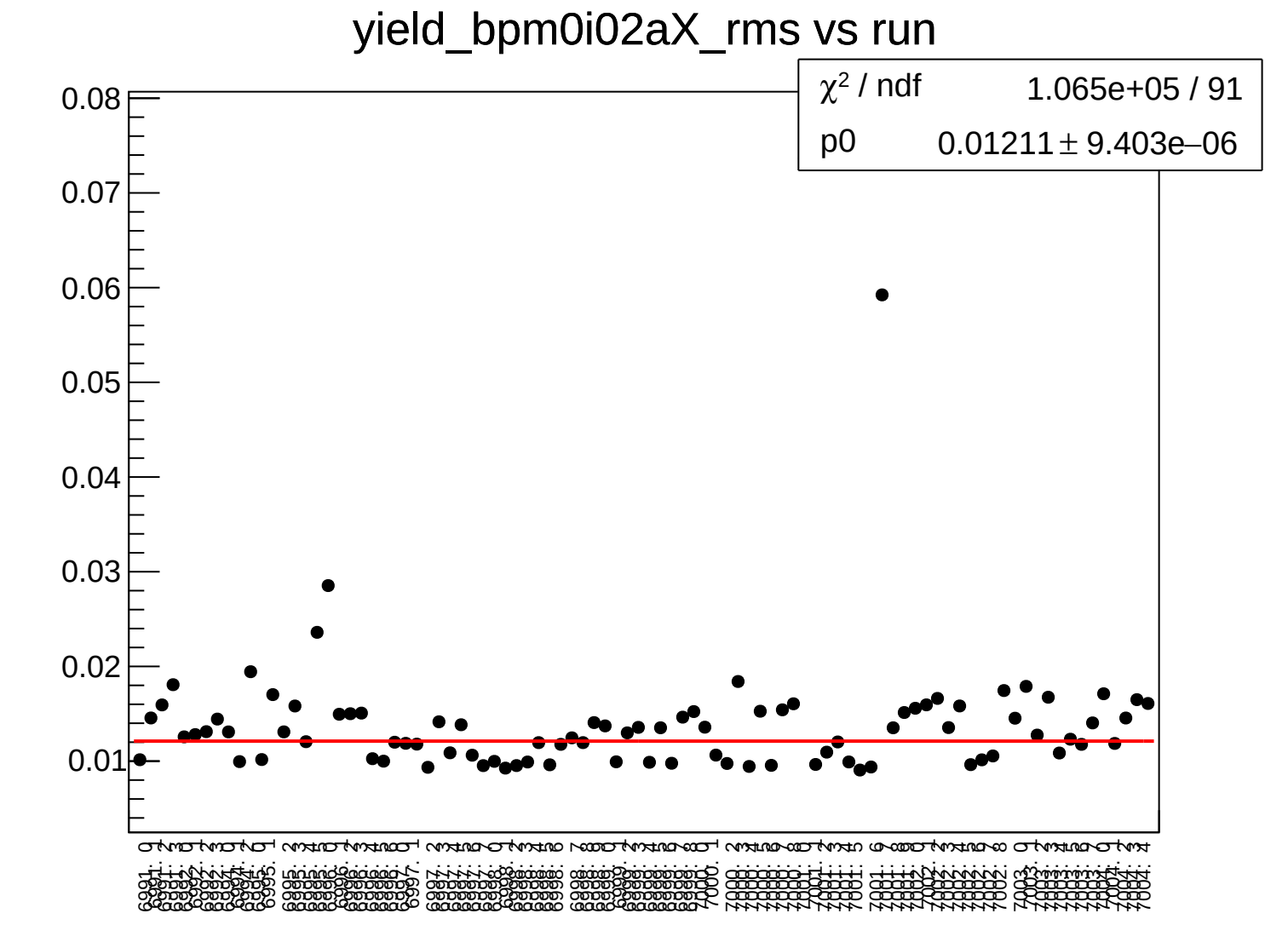

yield_bpm0i02X_rms vs run
χ² / ndf 8.171e+04 / 91
p0 0.006084 ± 4.689e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

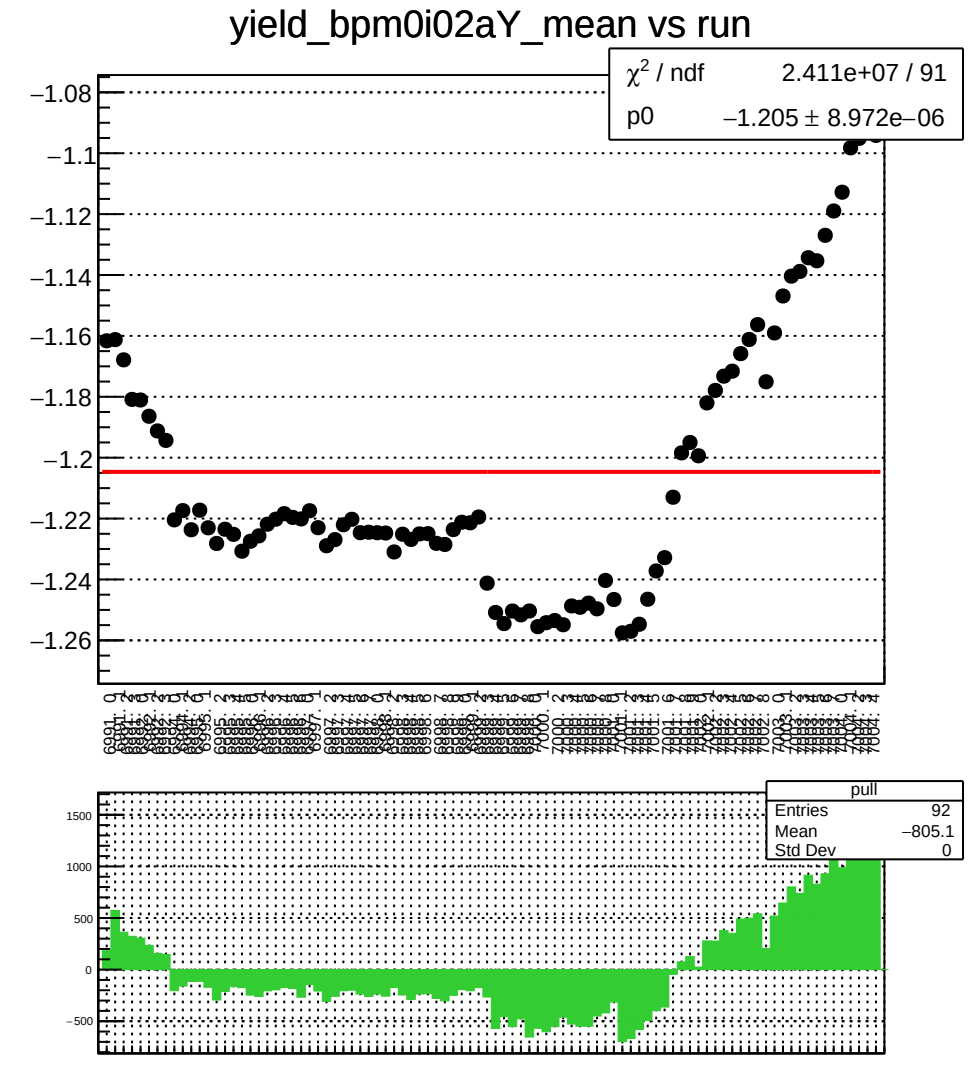

yield_bpm0i02Y_mean vs run
χ² / ndf 2.957e+07 / 91
p0 −2.608 ± 8.364e−06
−2.5
−2.52
−2.54
−2.56
−2.58
−2.6
−2.62
−2.64
−2.66
−2.68
pull
Entries 92
Mean −528.7
Std Dev 0
1500
1000
500
0
−500
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

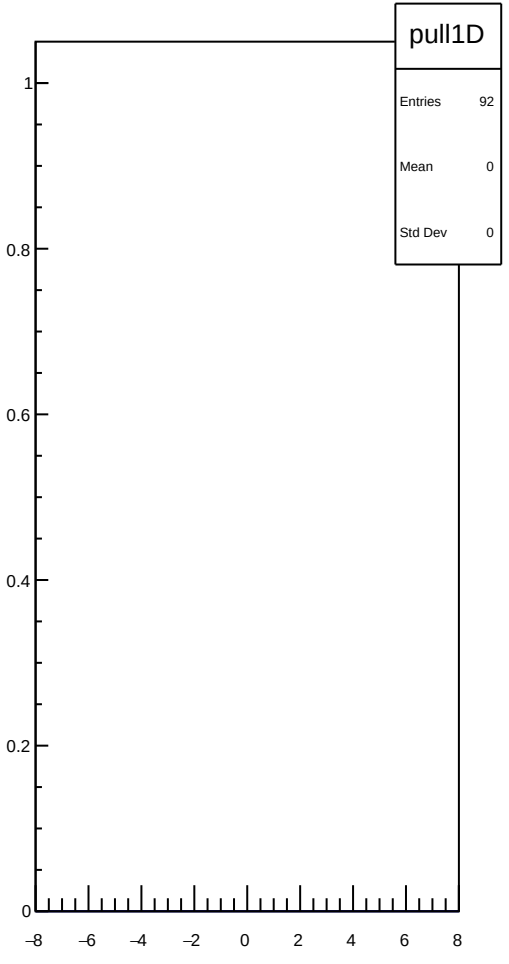

yield_bpm0i02Y_rms vs run
χ^2 / ndf 3.579e+04 / 91
p0 0.007778 ± 5.914e−06
0.016
0.014
0.012
0.01
0.008
0.006

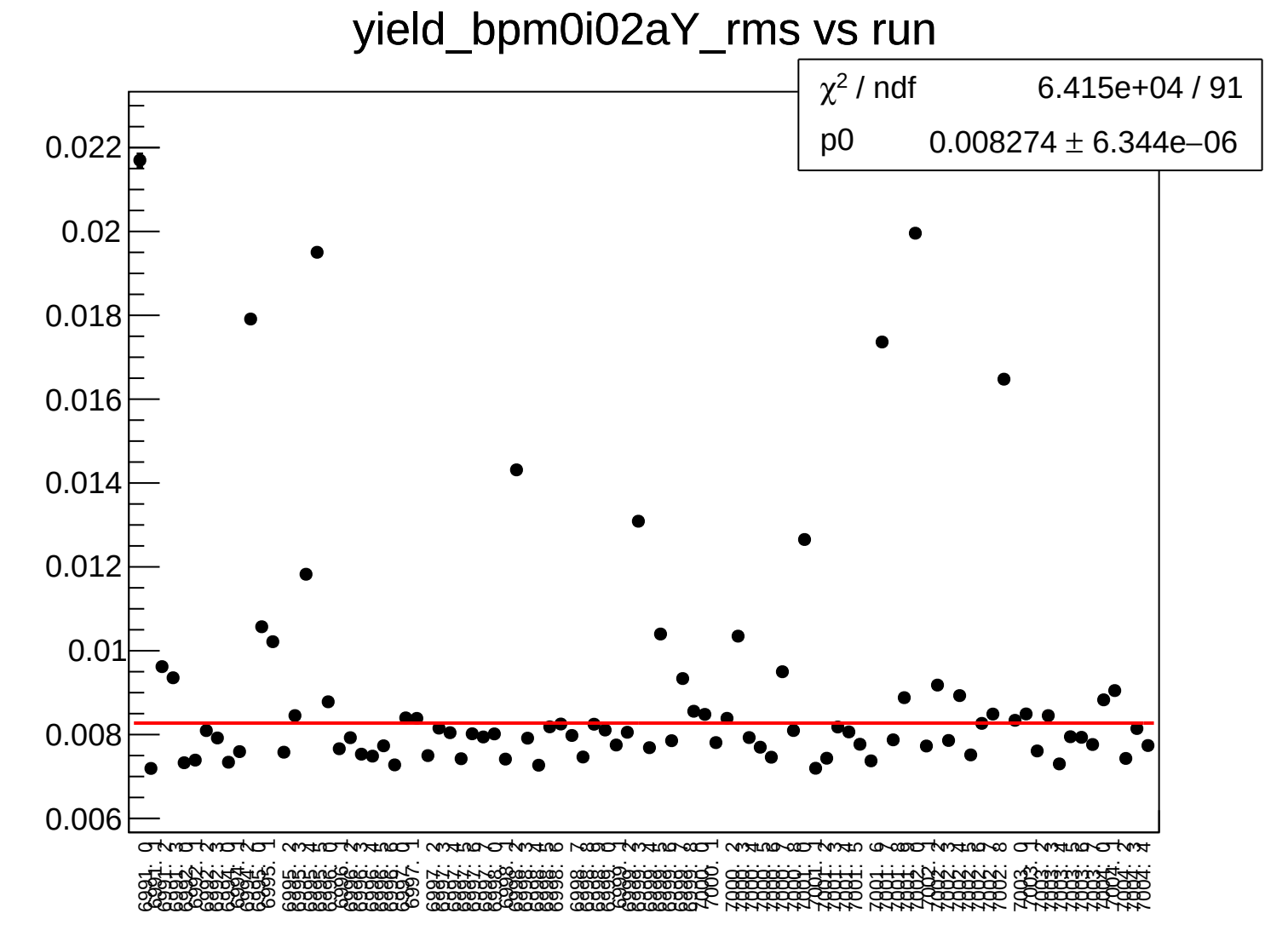

yield_bpm0i02aX_mean vs run
χ² / ndf 3.062e+07 / 91
p0 1.89 ± 1.33e−05
2.05
2
1.95
1.9
1.85
1.8
pull
Entries 92
Mean −2516
Std Dev 0
1500
1000
500
0
−500

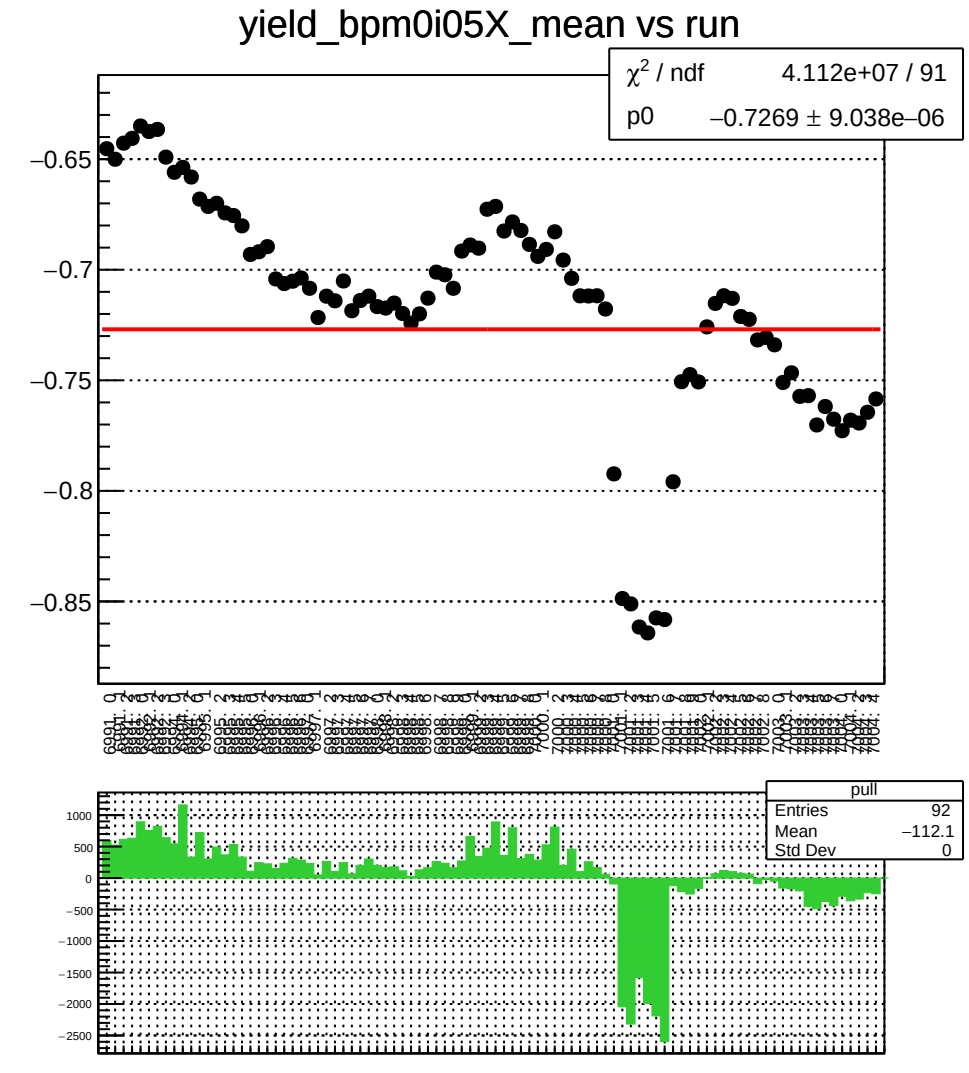

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

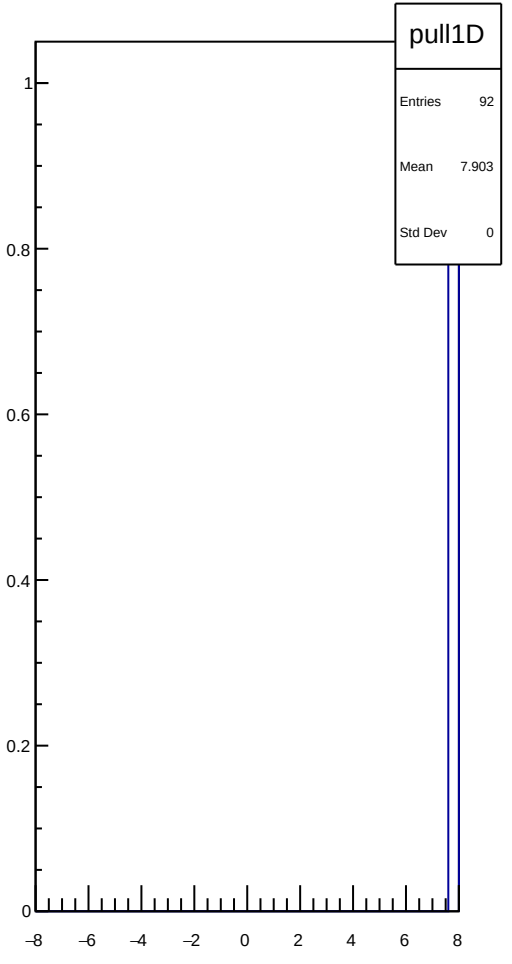

yield_bpm0i02aX_rms vs run
χ² / ndf 1.065e+05 / 91
p0 0.01211 ± 9.403e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

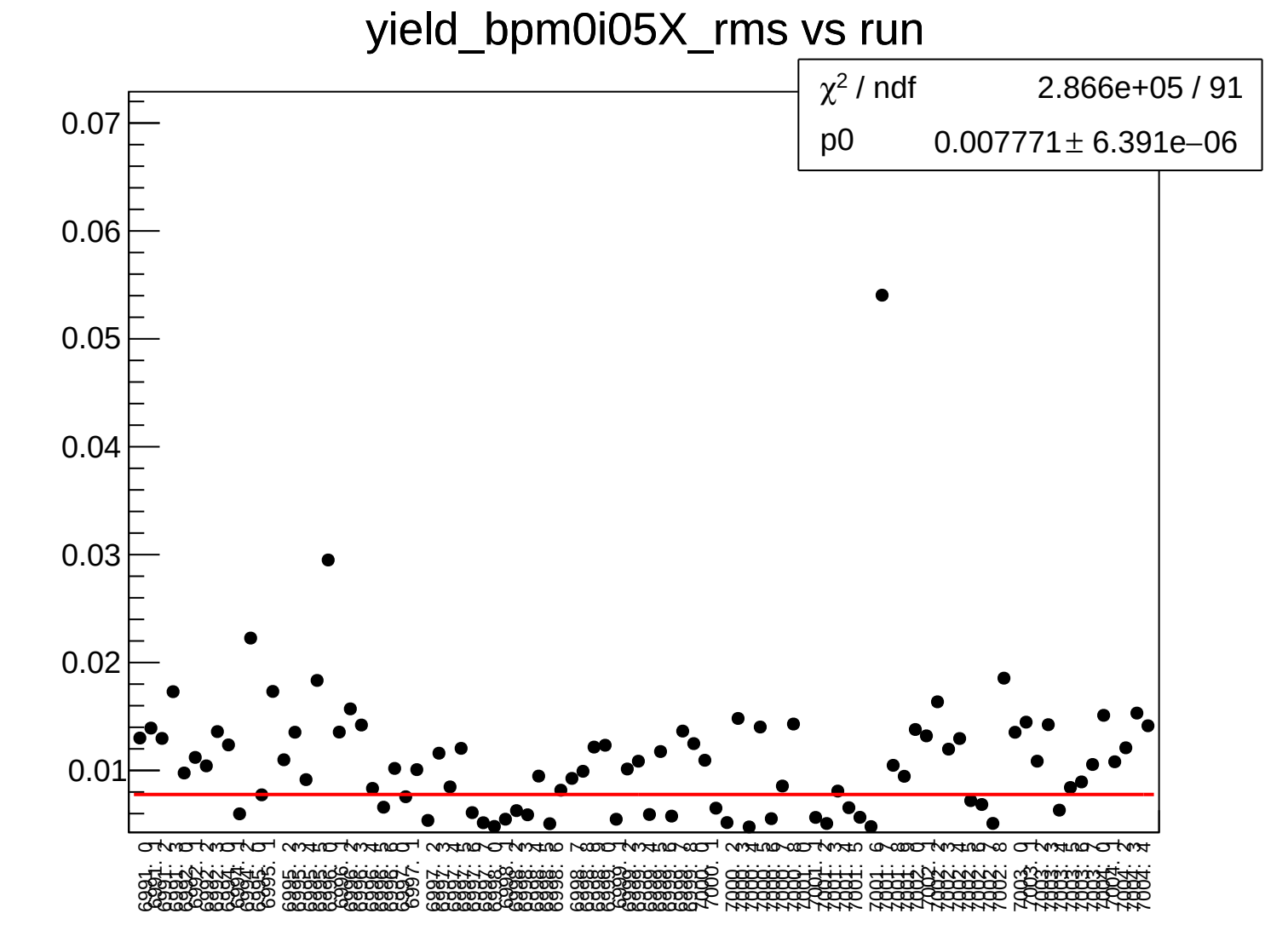

yield_bpm0i02aY_mean vs run
χ² / ndf 2.411e+07 / 91
p0 −1.205 ± 8.972e−06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
pull
Entries 92
Mean −805.1
Std Dev 0
1500
1000
500
0
−500

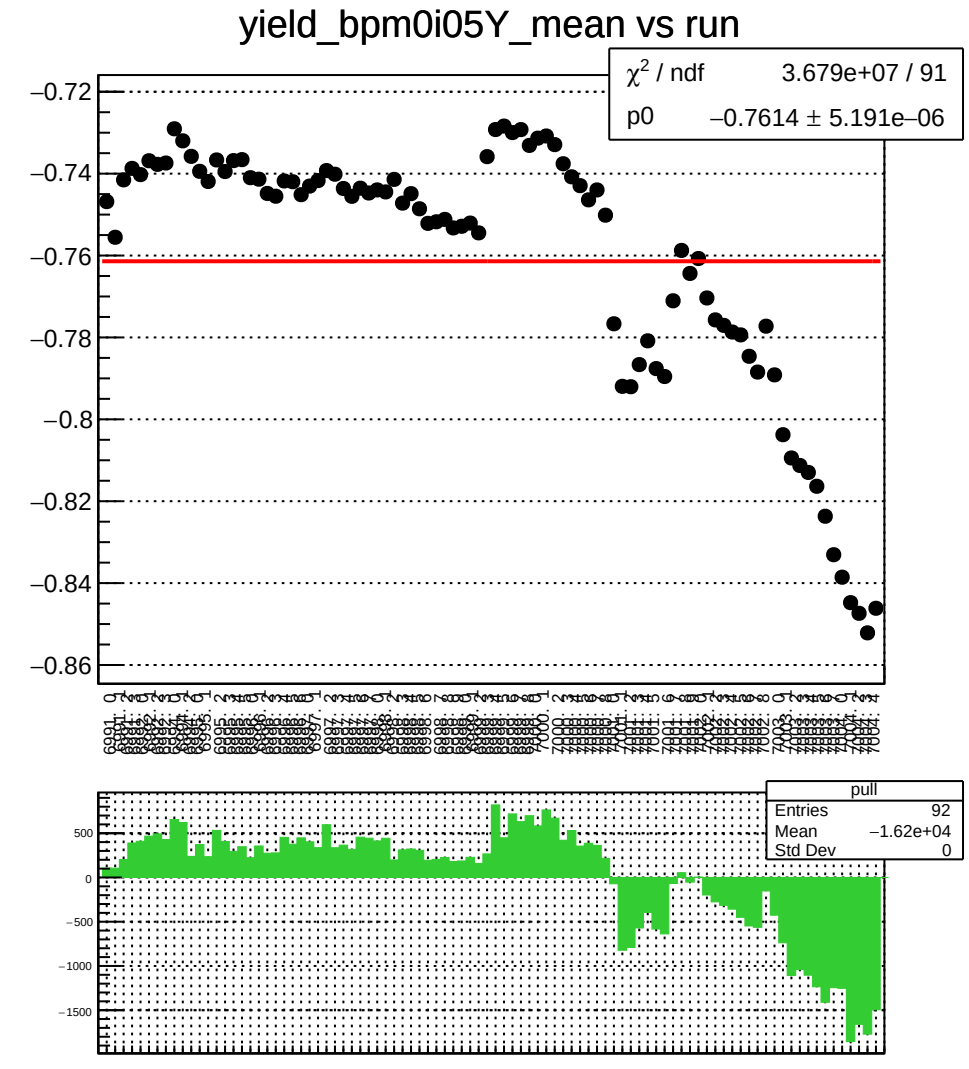

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

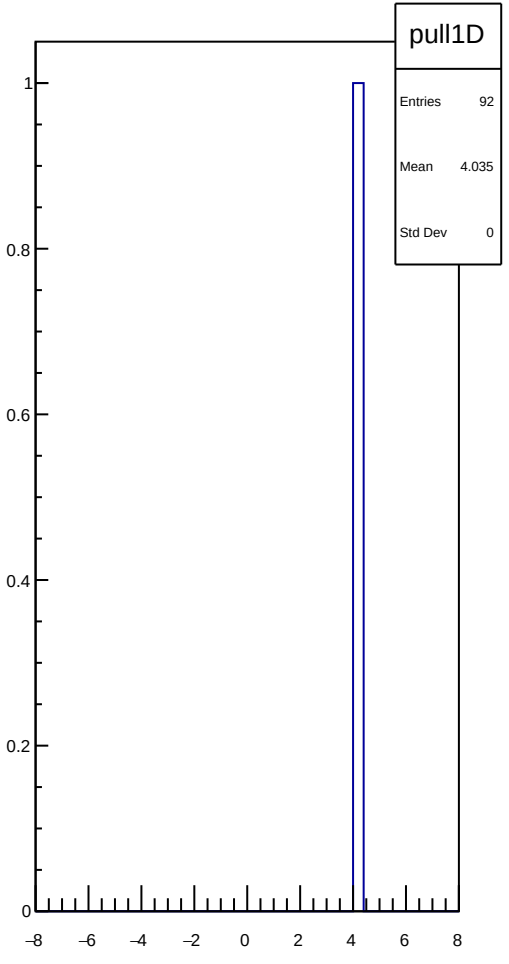

yield_bpm0i02aY_rms vs run
χ² / ndf 6.415e+04 / 91
p0 0.008274 ± 6.344e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

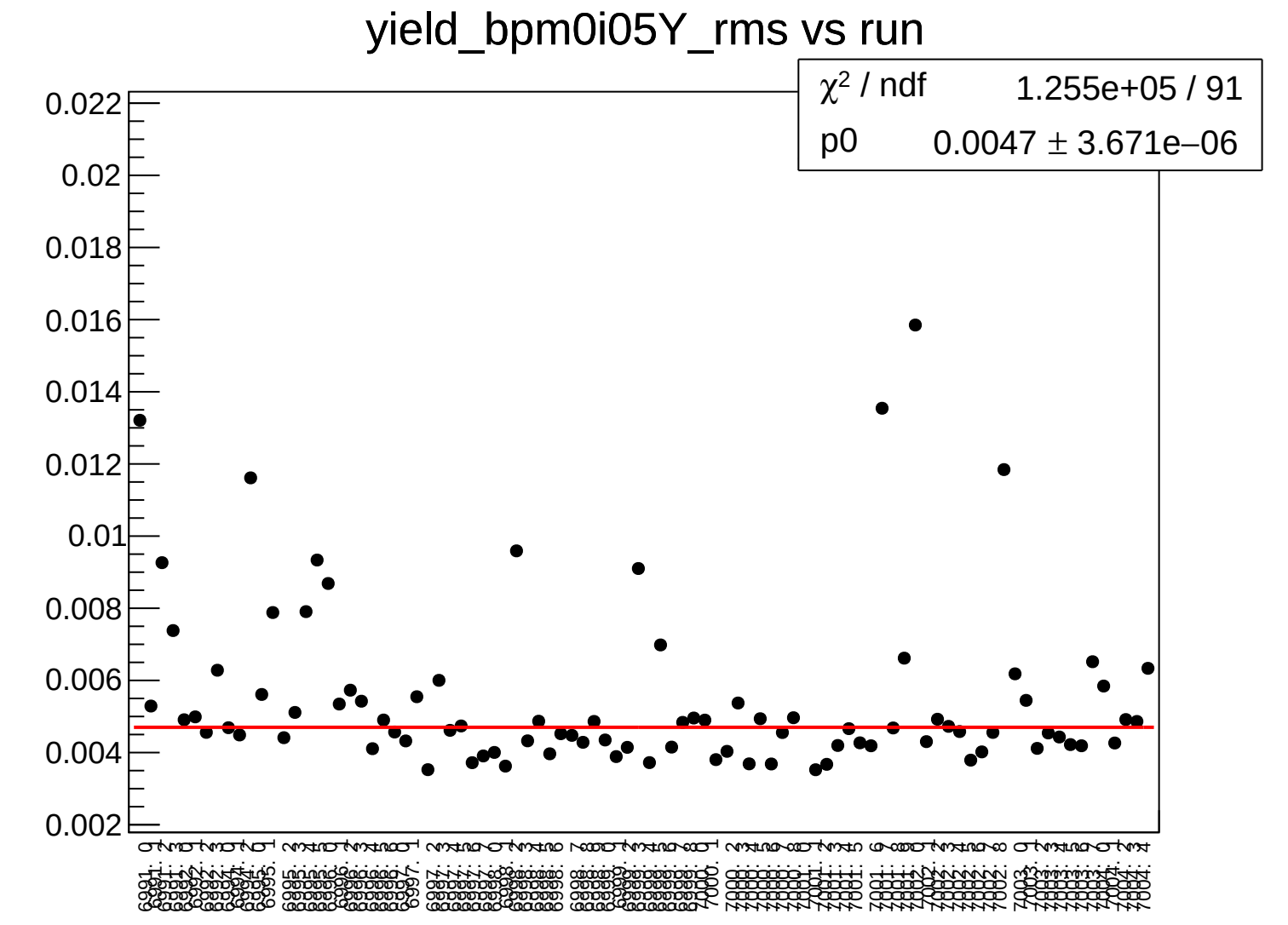

yield_bpm0i05X_mean vs run
χ² / ndf 4.112e+07 / 91
p0 −0.7269 ± 9.038e−06
−0.65
−0.7
−0.75
−0.8
−0.85
pull
Entries 92
Mean −112.1
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

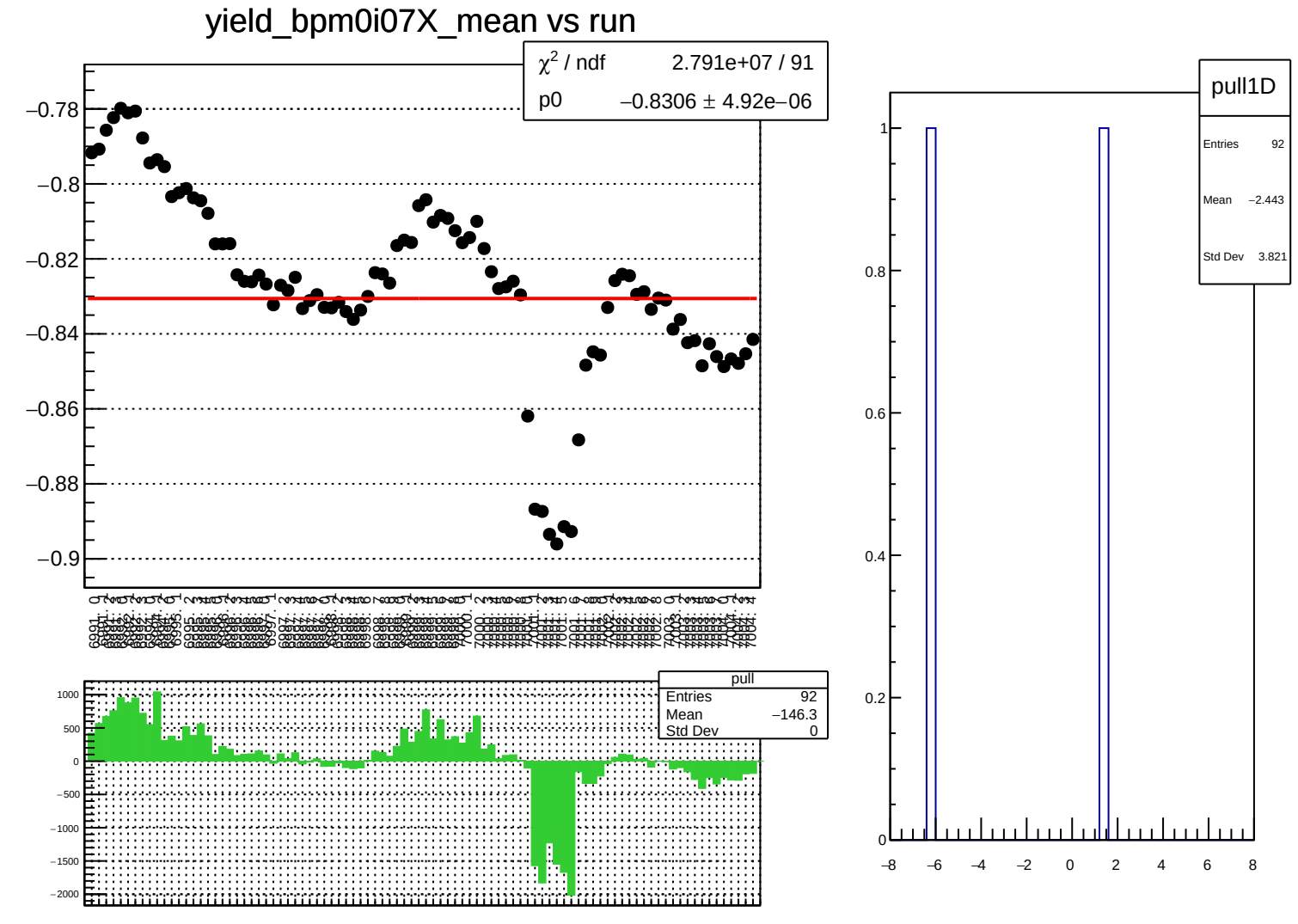

pull1D
Entries 92
Mean 7.903
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

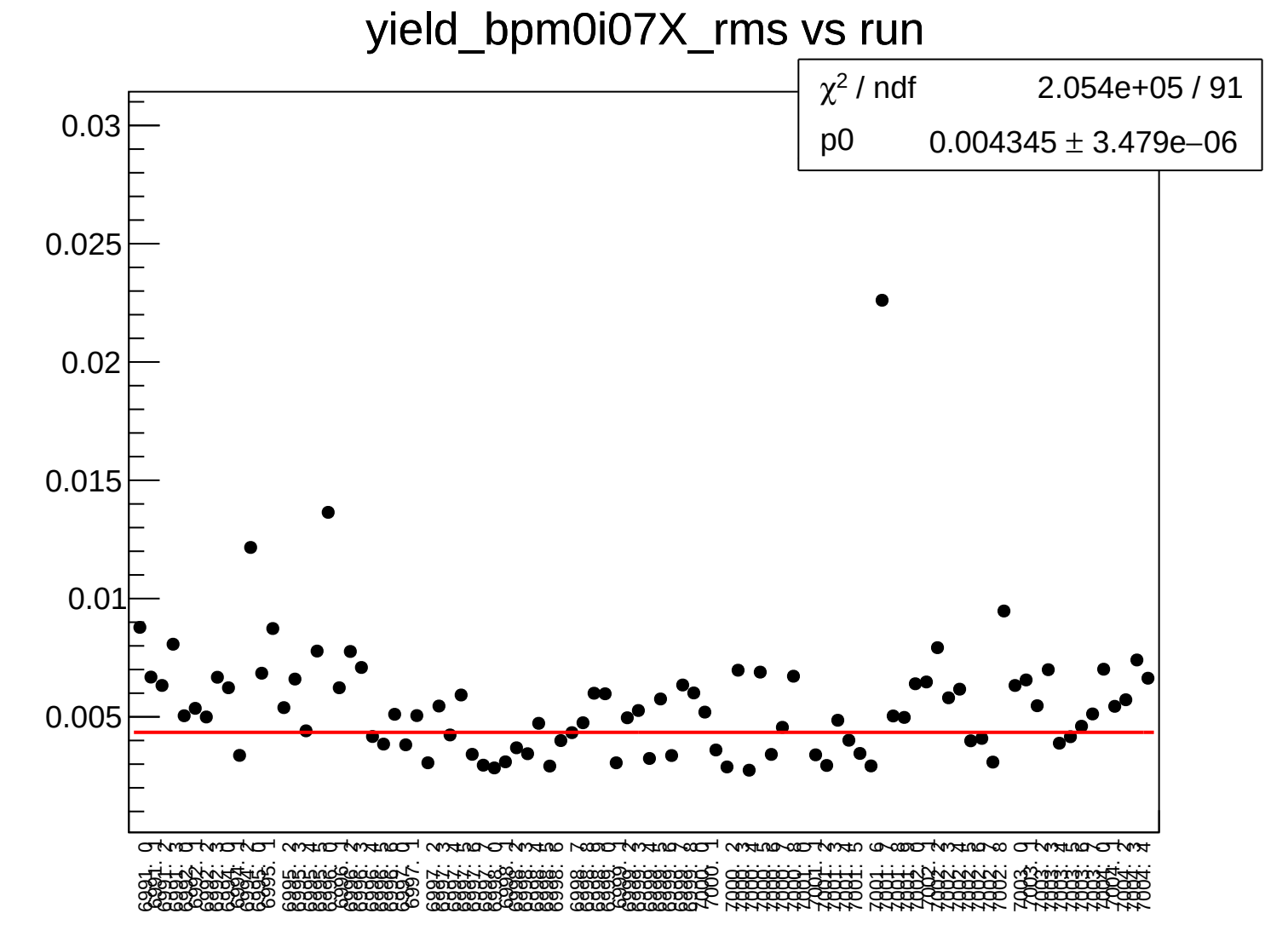

yield_bpm0i05X_rms vs run
χ^2 / ndf 2.866e+05 / 91
p0 0.007771 ± 6.391e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

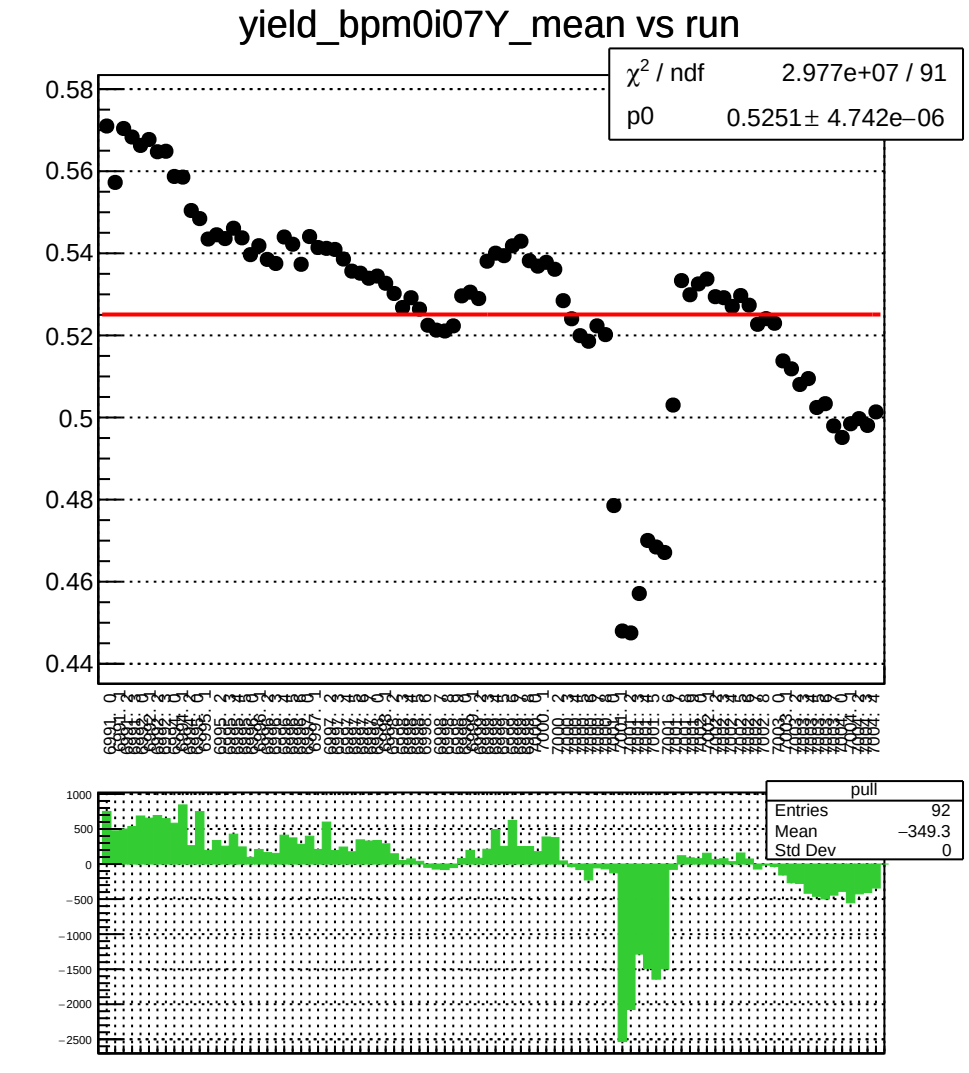

yield_bpm0i05Y_mean vs run
χ² / ndf 3.679e+07 / 91
p0 −0.7614 ± 5.191e−06
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
pull
Entries 92
Mean −1.62e+04
Std Dev 0
500
0
−500
−1000
−1500

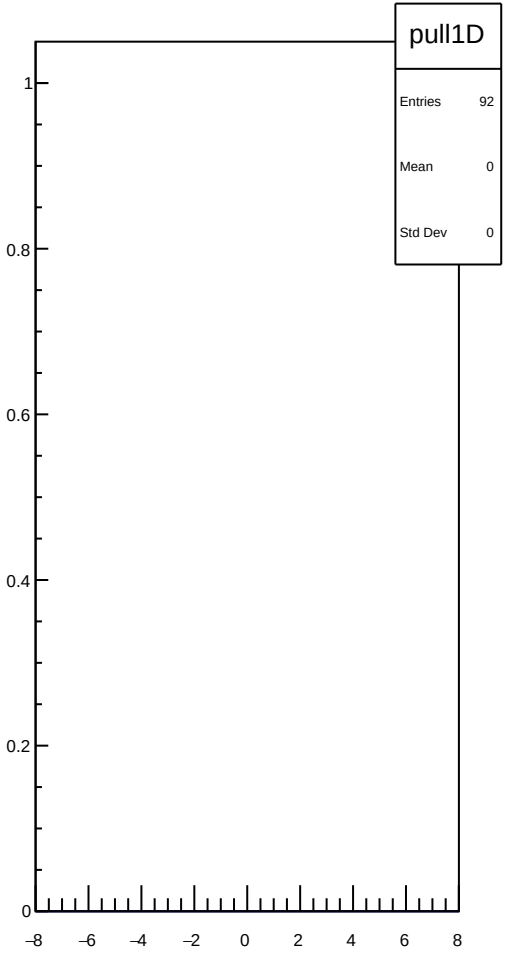

pull1D
Entries 92
Mean 4.035
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

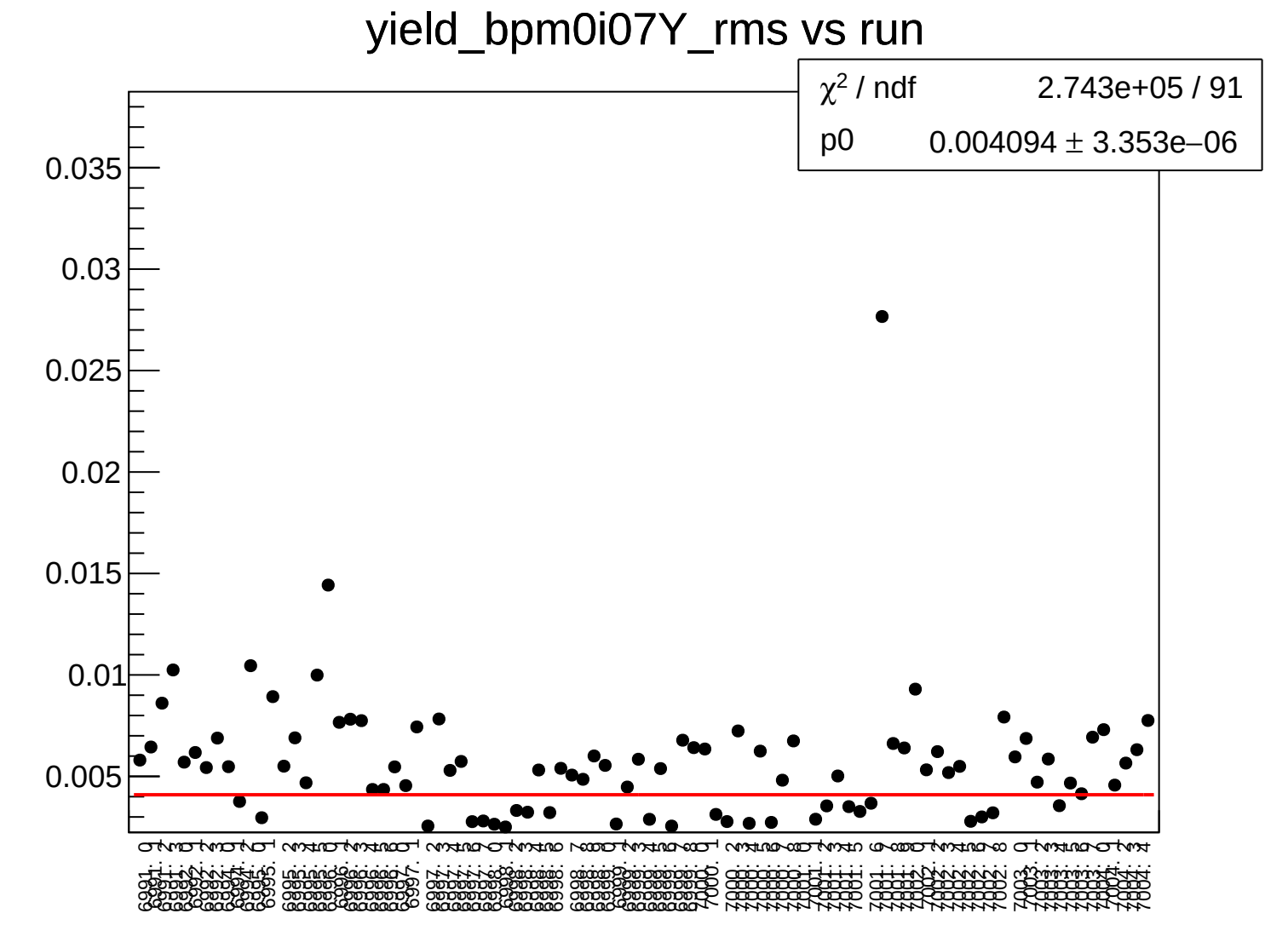

yield_bpm0i05Y_rms vs run
χ² / ndf 1.255e+05 / 91
p0 0.0047 ± 3.671e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

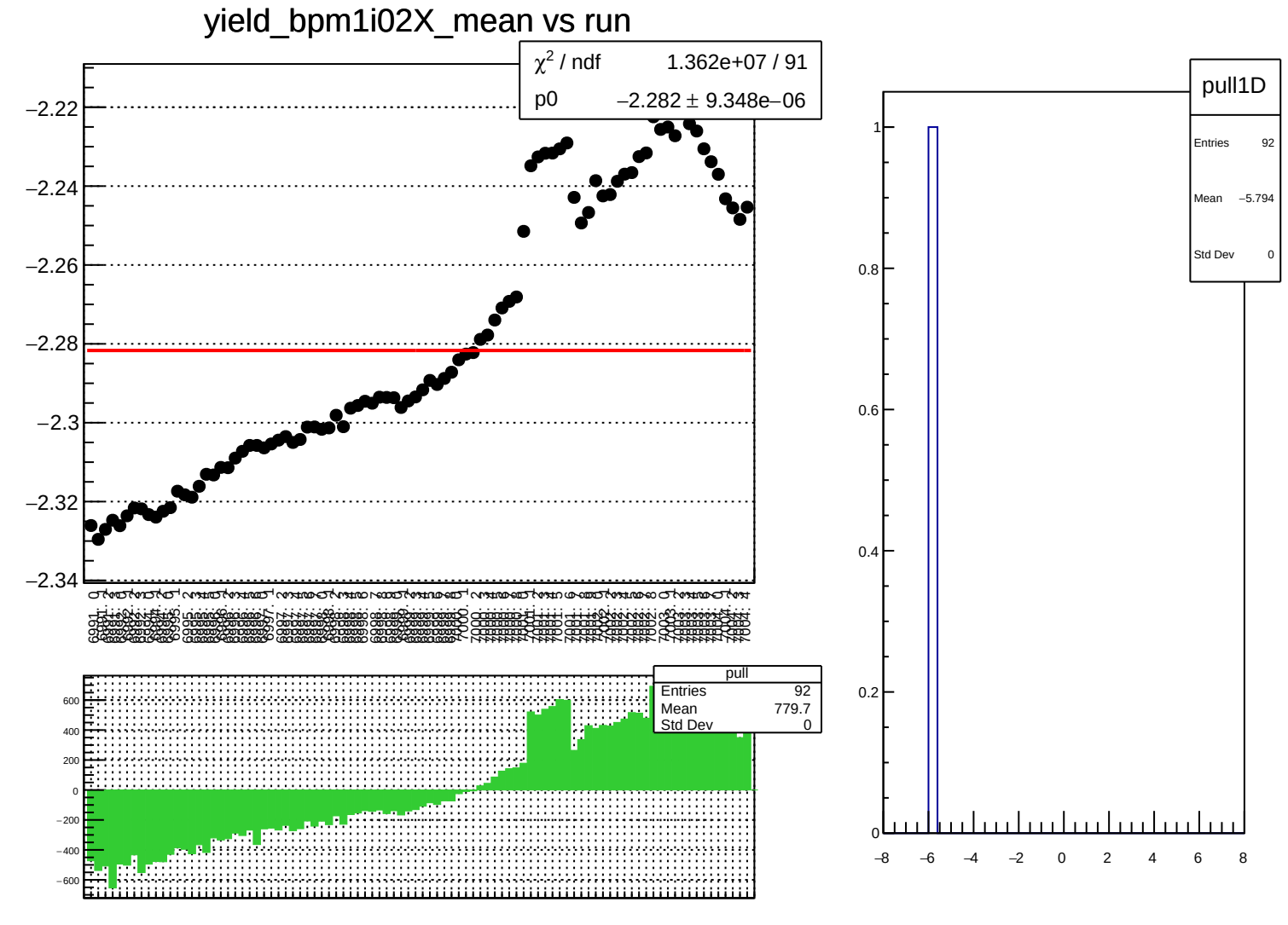

yield_bpm0i07X_mean vs run
χ² / ndf 2.791e+07 / 91
p0 −0.8306 ± 4.92e−06
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 92
Mean −146.3
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 92
Mean −2.443
Std Dev 3.821
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

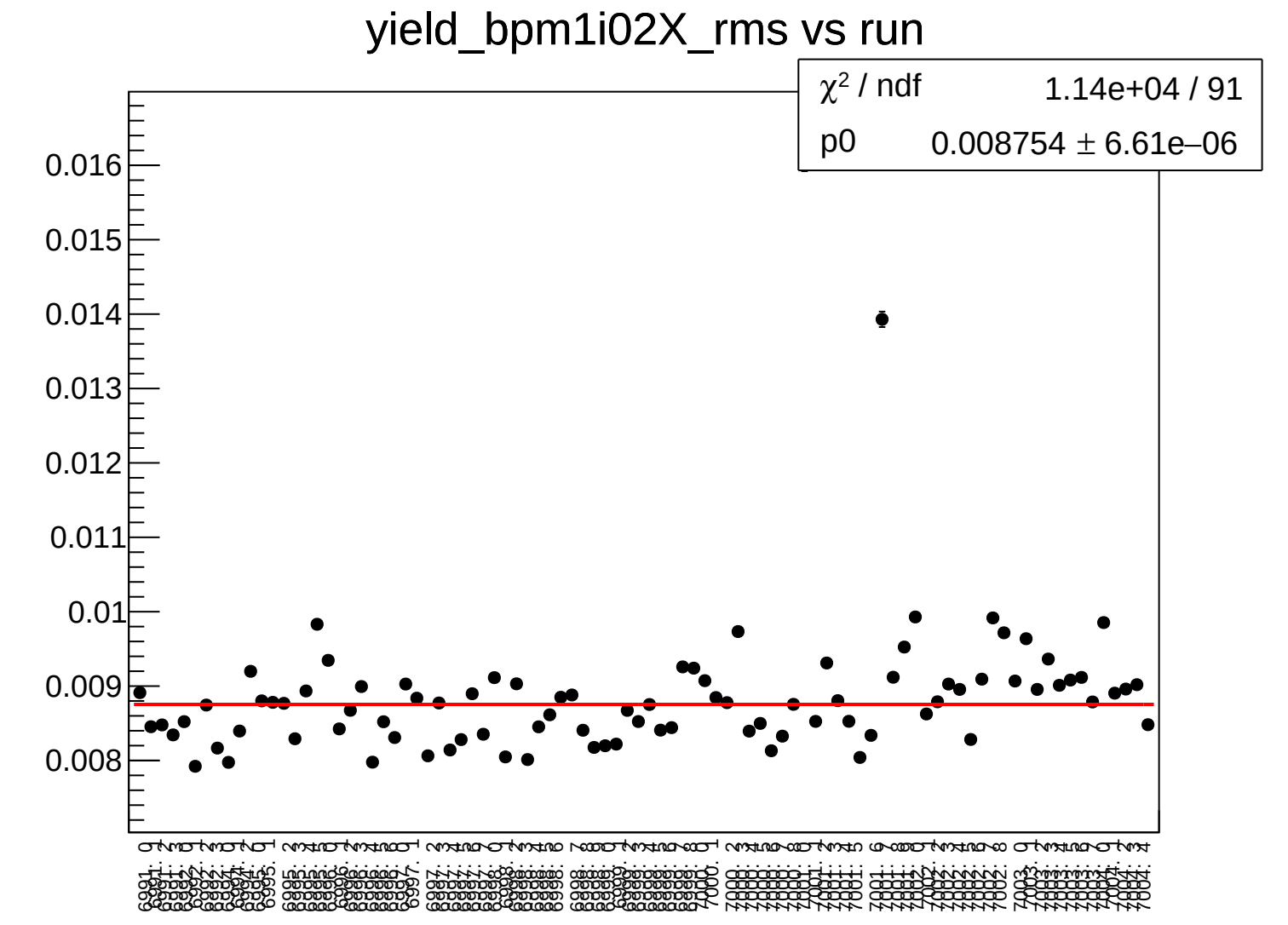

yield_bpm0i07X_rms vs run
χ² / ndf 2.054e+05 / 91
p0 0.004345 ± 3.479e−06
0.03
0.025
0.02
0.015
0.01
0.005

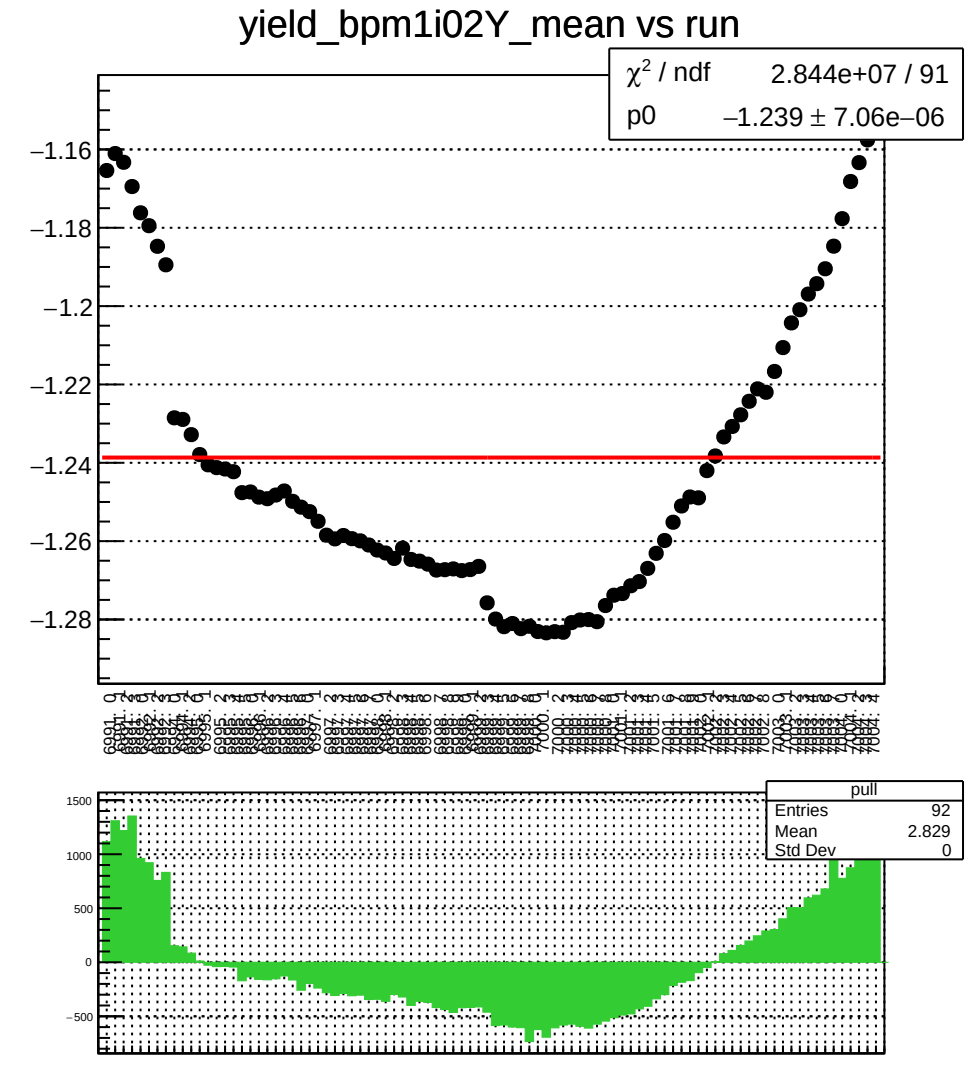

yield_bpm0i07Y_mean vs run
χ² / ndf 2.977e+07 / 91
p0 0.5251 ± 4.742e−06
0.58
0.56
0.54
0.52
0.5
0.48
0.46
0.44
pull
Entries 92
Mean −349.3
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

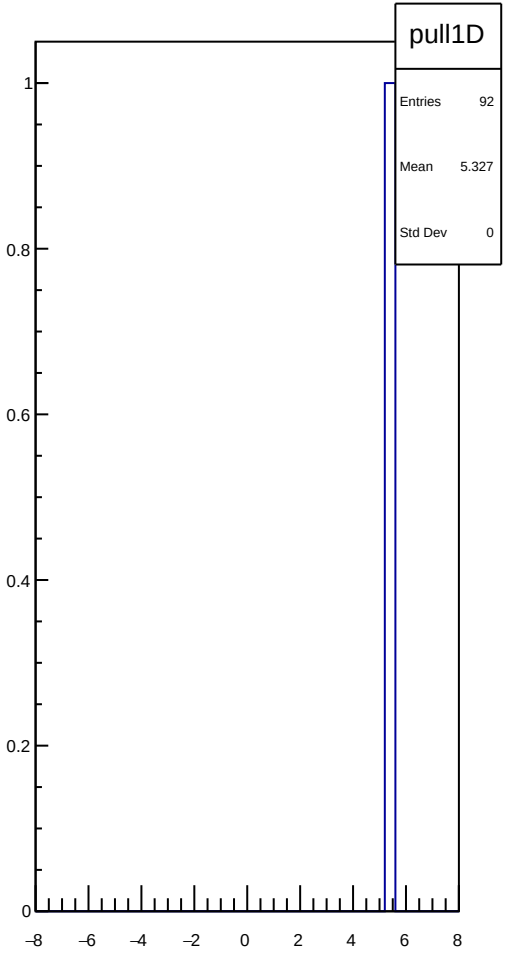

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i07Y_rms vs run
χ² / ndf 2.743e+05 / 91
p0 0.004094 ± 3.353e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

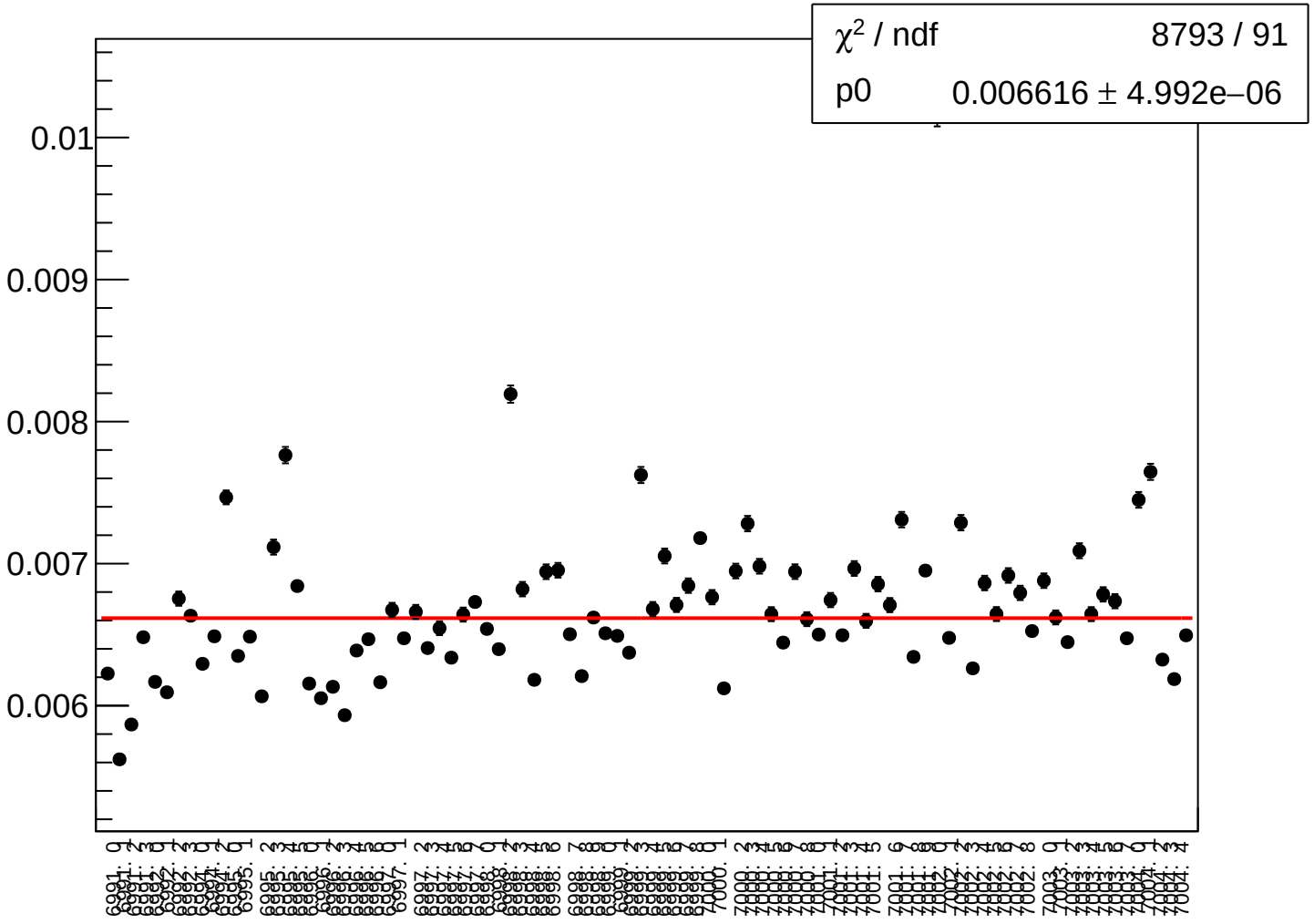

yield_bpm1i02X_mean vs run
χ² / ndf 1.362e+07 / 91
p0 −2.282 ± 9.348e−06
−2.22
−2.24
−2.26
−2.28
−2.3
−2.32
−2.34
pull
Entries 92
Mean 779.7
Std Dev 0
600
400
200
0
−200
−400
−600
pull1D
Entries 92
Mean −5.794
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

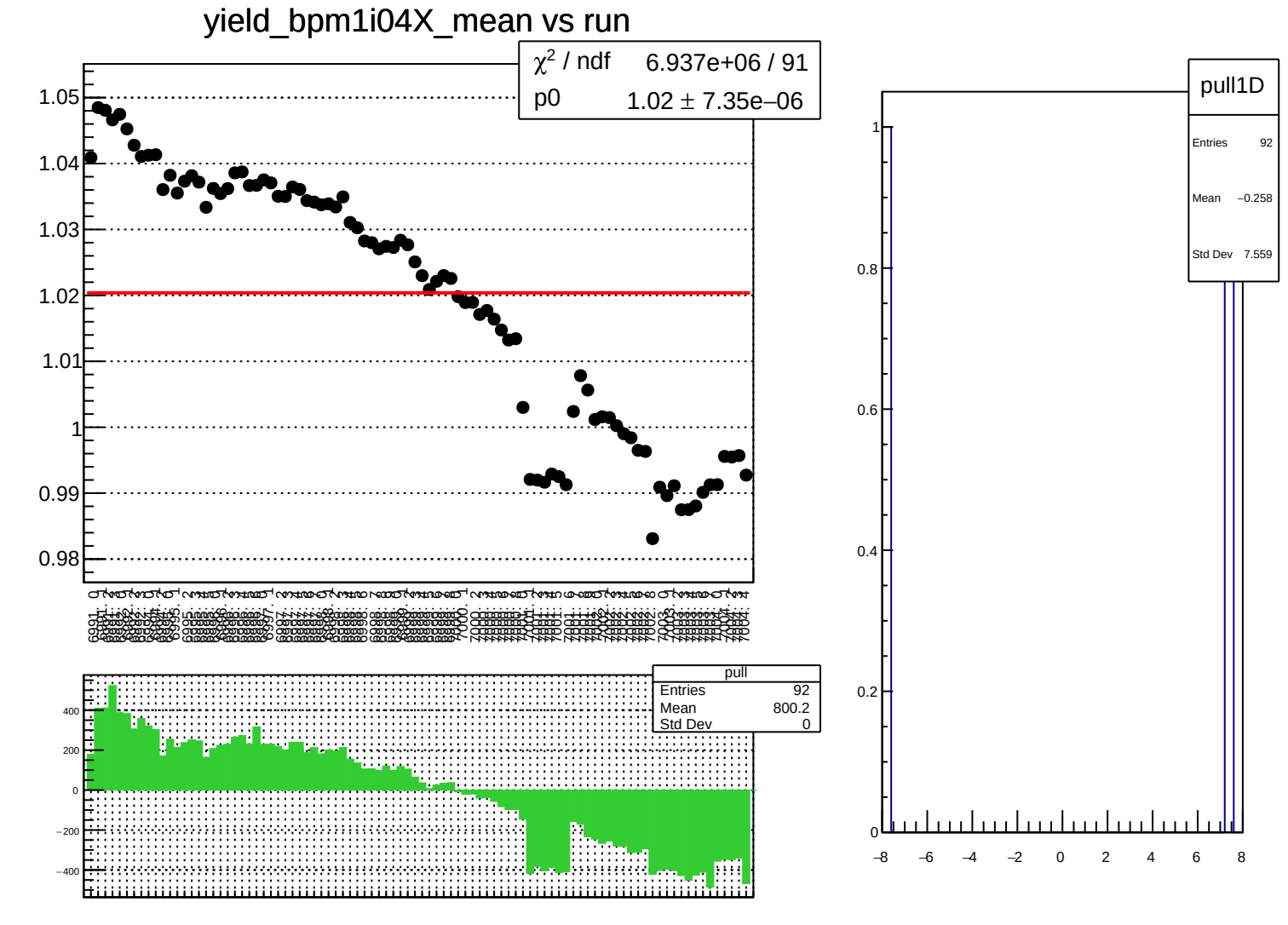

yield_bpm1i02X_rms vs run
χ² / ndf 1.14e+04 / 91
p0 0.008754 ± 6.61e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

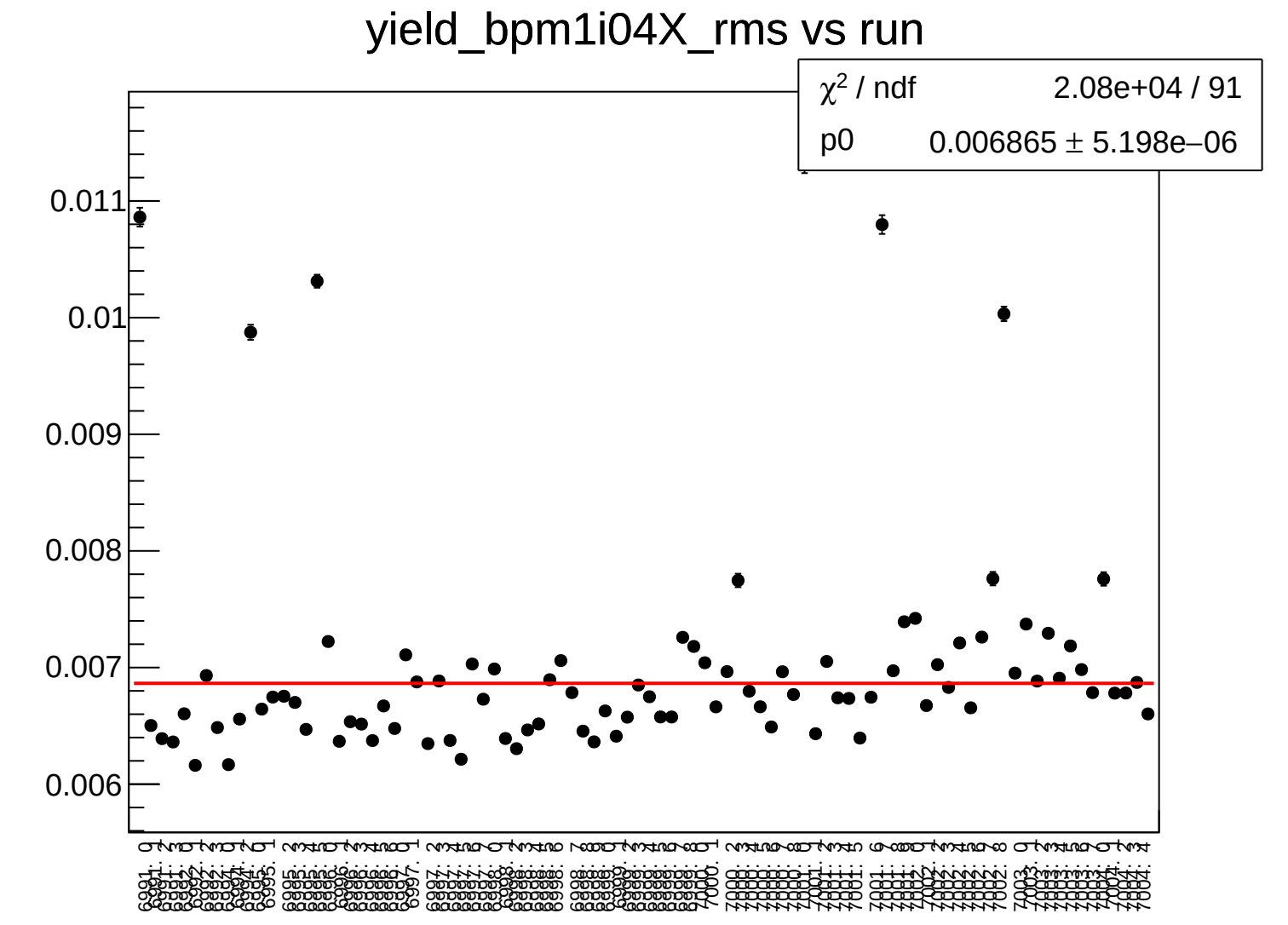

yield_bpm1i02Y_mean vs run
χ² / ndf 2.844e+07 / 91
p0 –1.239 ± 7.06e–06
–1.16
–1.18
–1.2
–1.22
–1.24
–1.26
–1.28
pull
Entries 92
Mean 2.829
Std Dev 0
1500
1000
500
0
–500

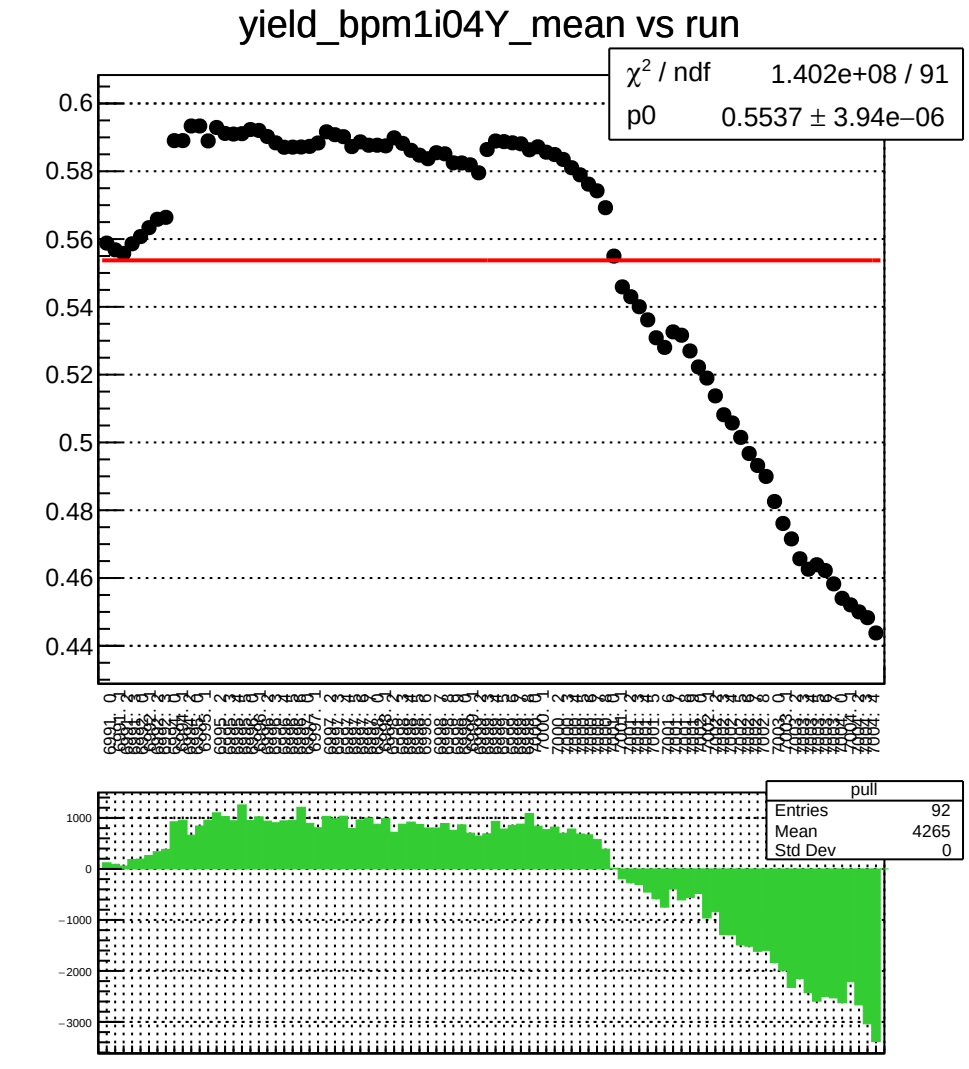

pull1D
Entries 92
Mean 5.327
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

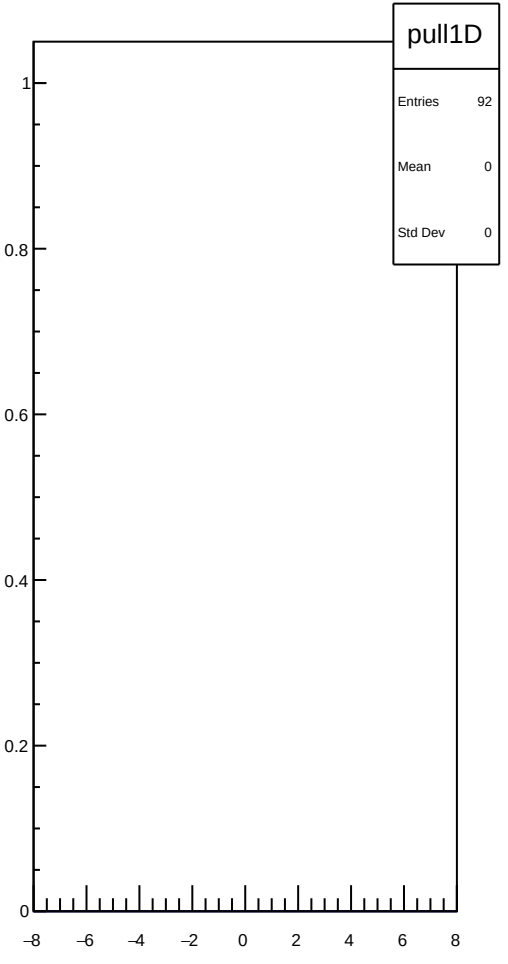
yield_bpm1i02Y_rms vs run

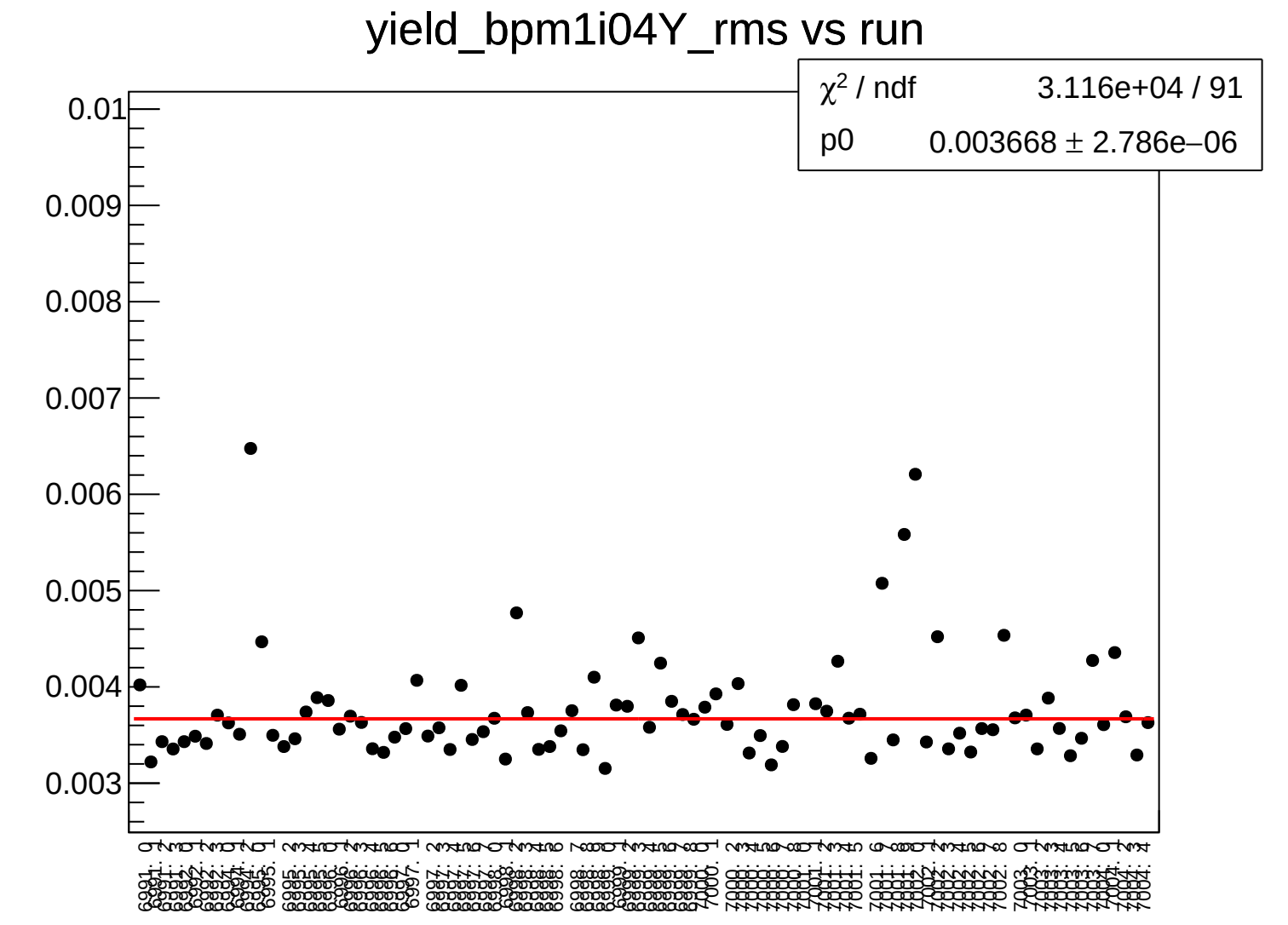


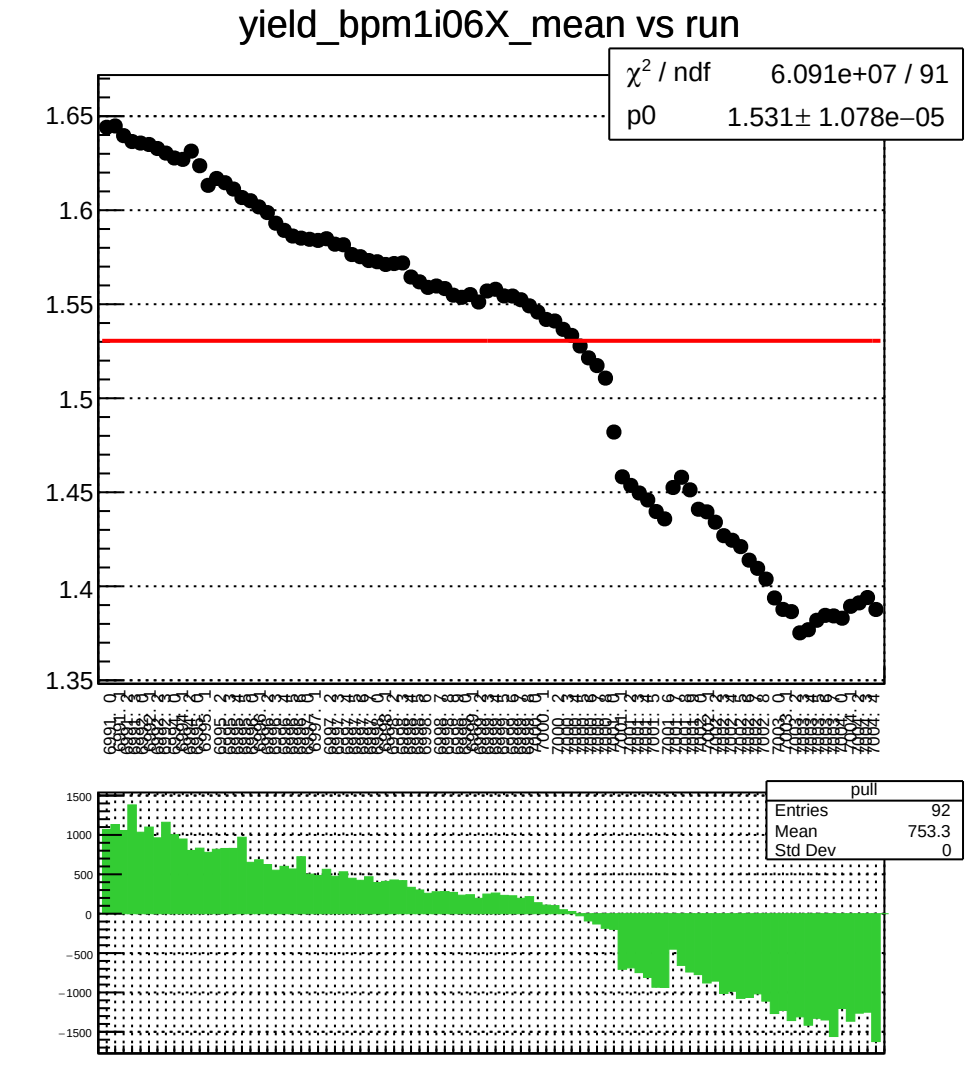

yield_bpm1i04X_mean vs run
χ² / ndf 6.937e+06 / 91
p0 1.02 ± 7.35e−06
1.05
1.04
1.03
1.02
1.01
1
0.99
0.98
pull
Entries 92
Mean 800.2
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 92
Mean −0.258
Std Dev 7.559
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

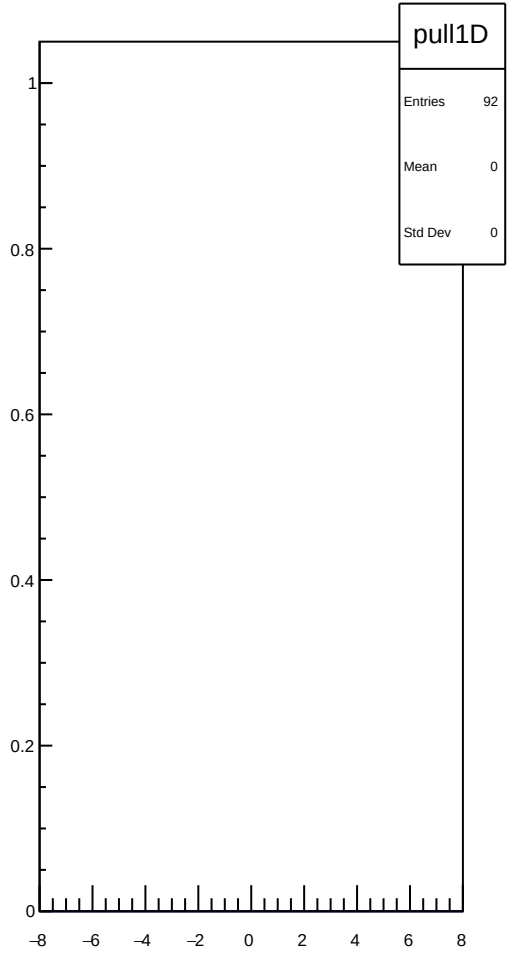

yield_bpm1i04X_rms vs run
χ² / ndf 2.08e+04 / 91
p0 0.006865 ± 5.198e−06
0.011
0.01
0.009
0.008
0.007
0.006

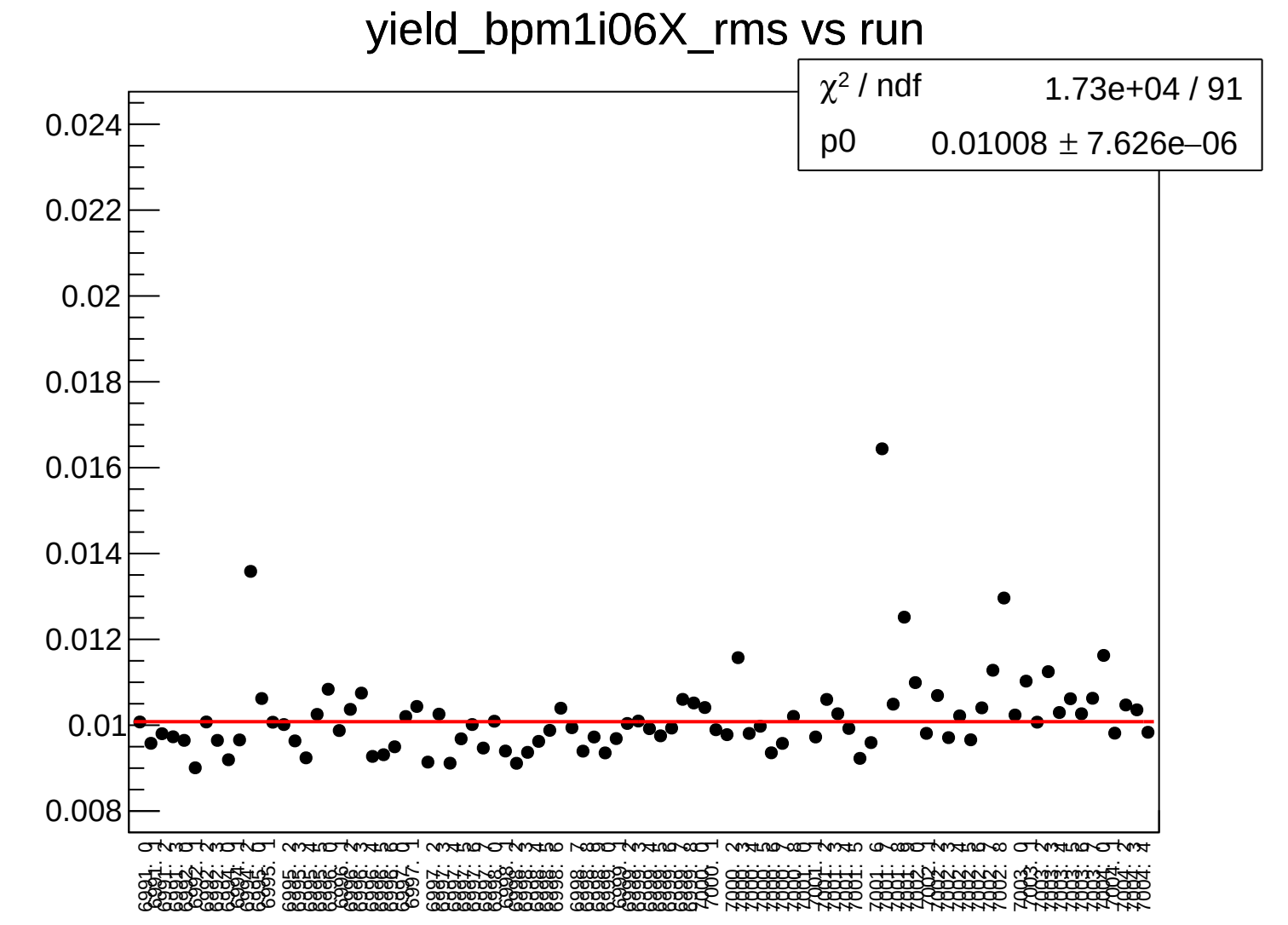

yield_bpm1i04Y_mean vs run
χ² / ndf 1.402e+08 / 91
p0 0.5537 ± 3.94e−06
0.6
0.58
0.56
0.54
0.52
0.5
0.48
0.46
0.44
pull
Entries 92
Mean 4265
Std Dev 0
1000
0
−1000
−2000
−3000

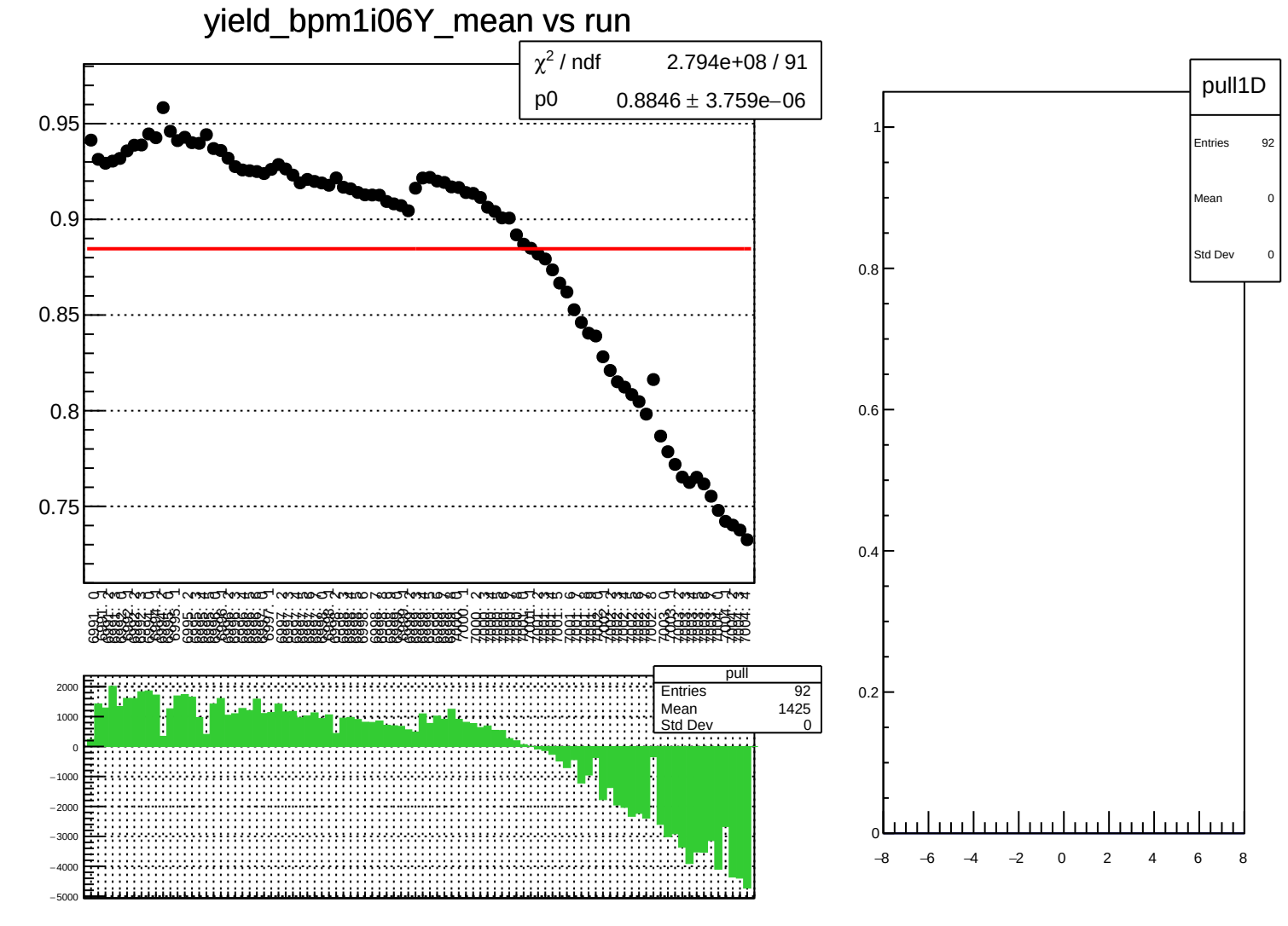

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

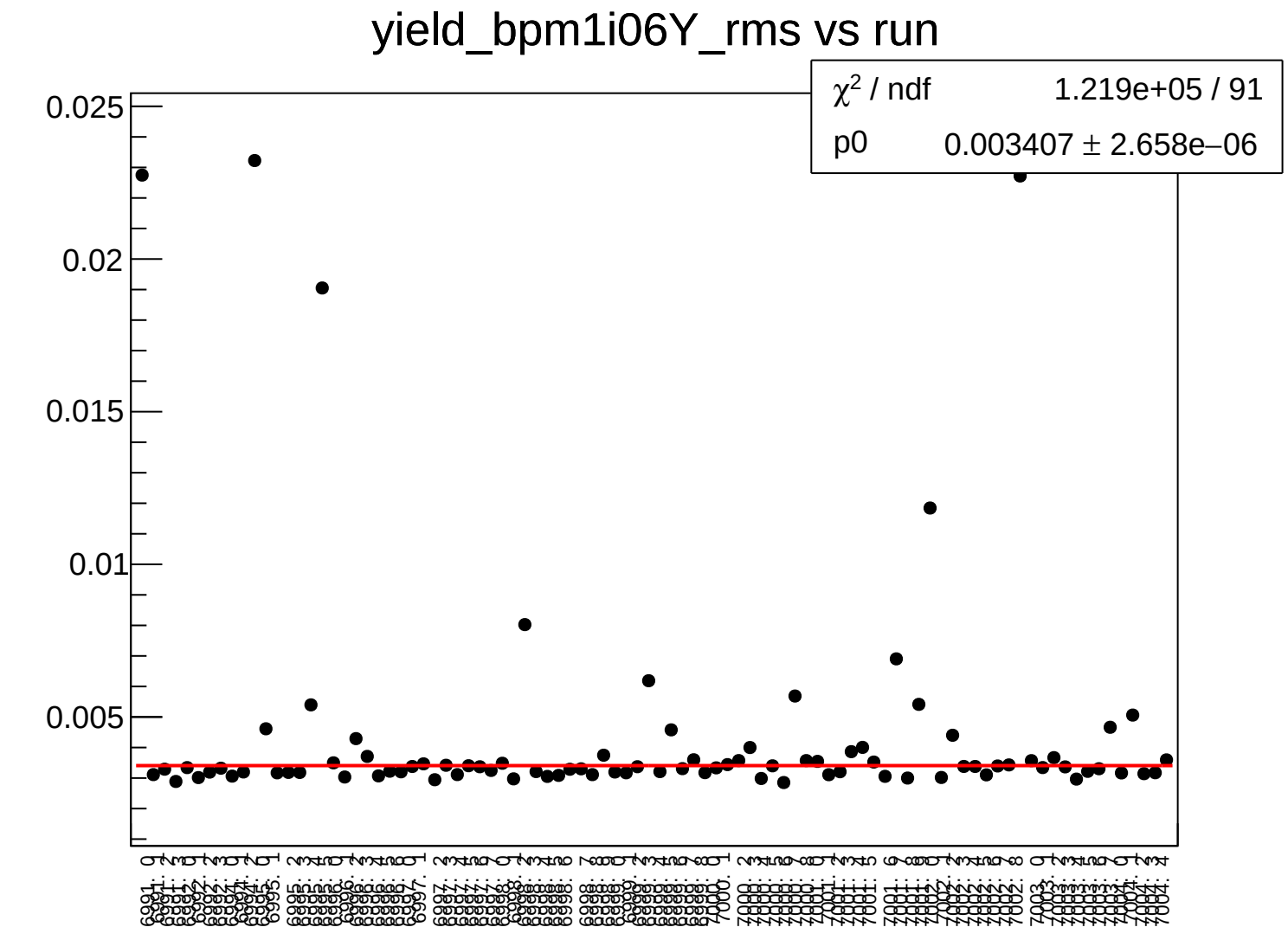

yield_bpm1i04Y_rms vs run
χ² / ndf 3.116e+04 / 91
p0 0.003668 ± 2.786e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

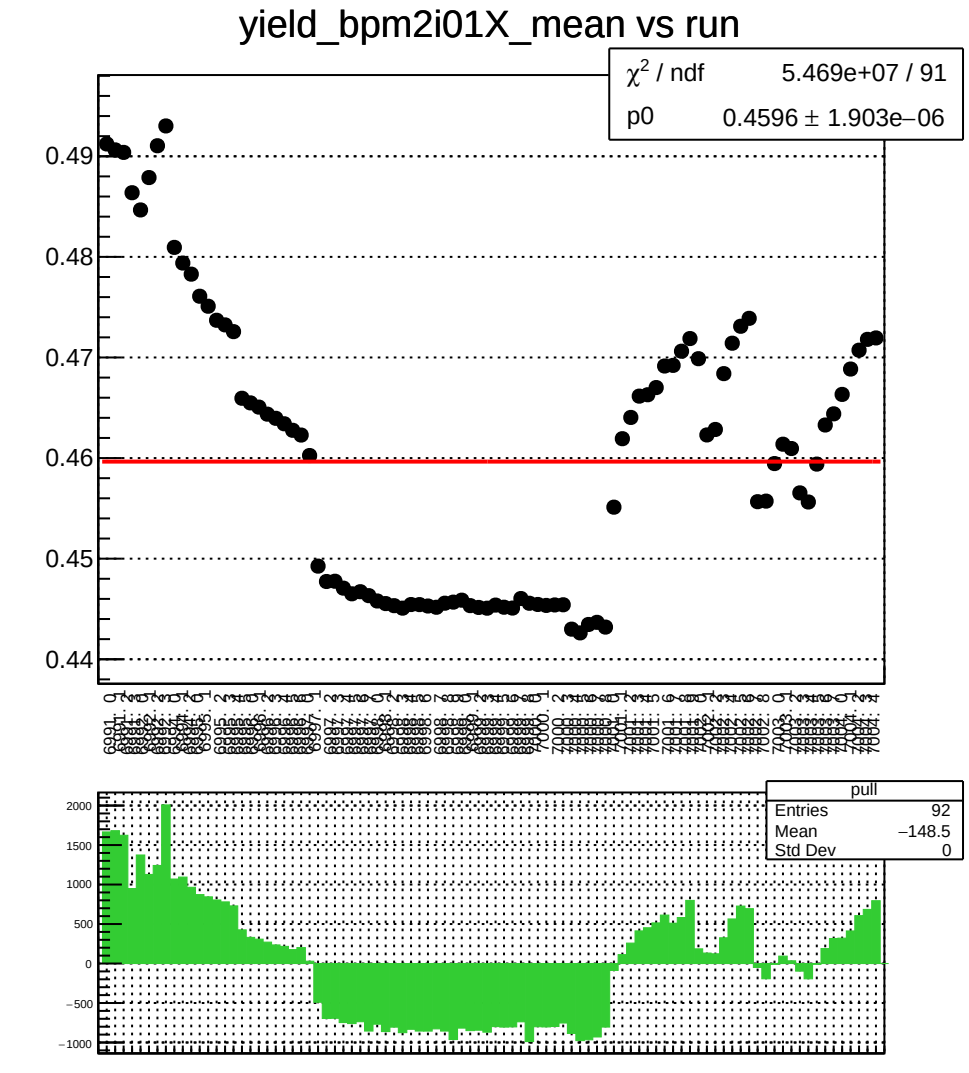

yield_bpm1i06X_mean vs run
χ² / ndf 6.091e+07 / 91
p0 1.531± 1.078e−05
1.65
1.6
1.55
1.5
1.45
1.4
1.35
pull
Entries 92
Mean 753.3
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

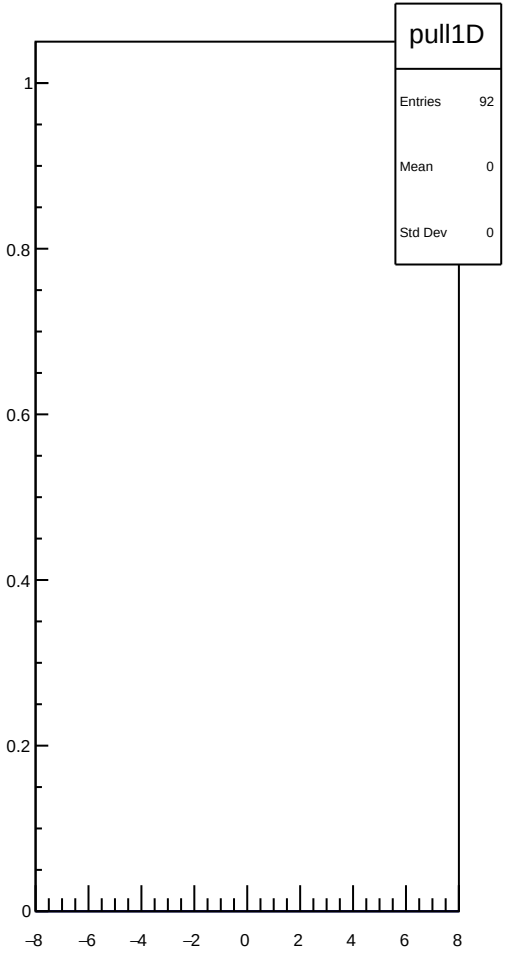

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

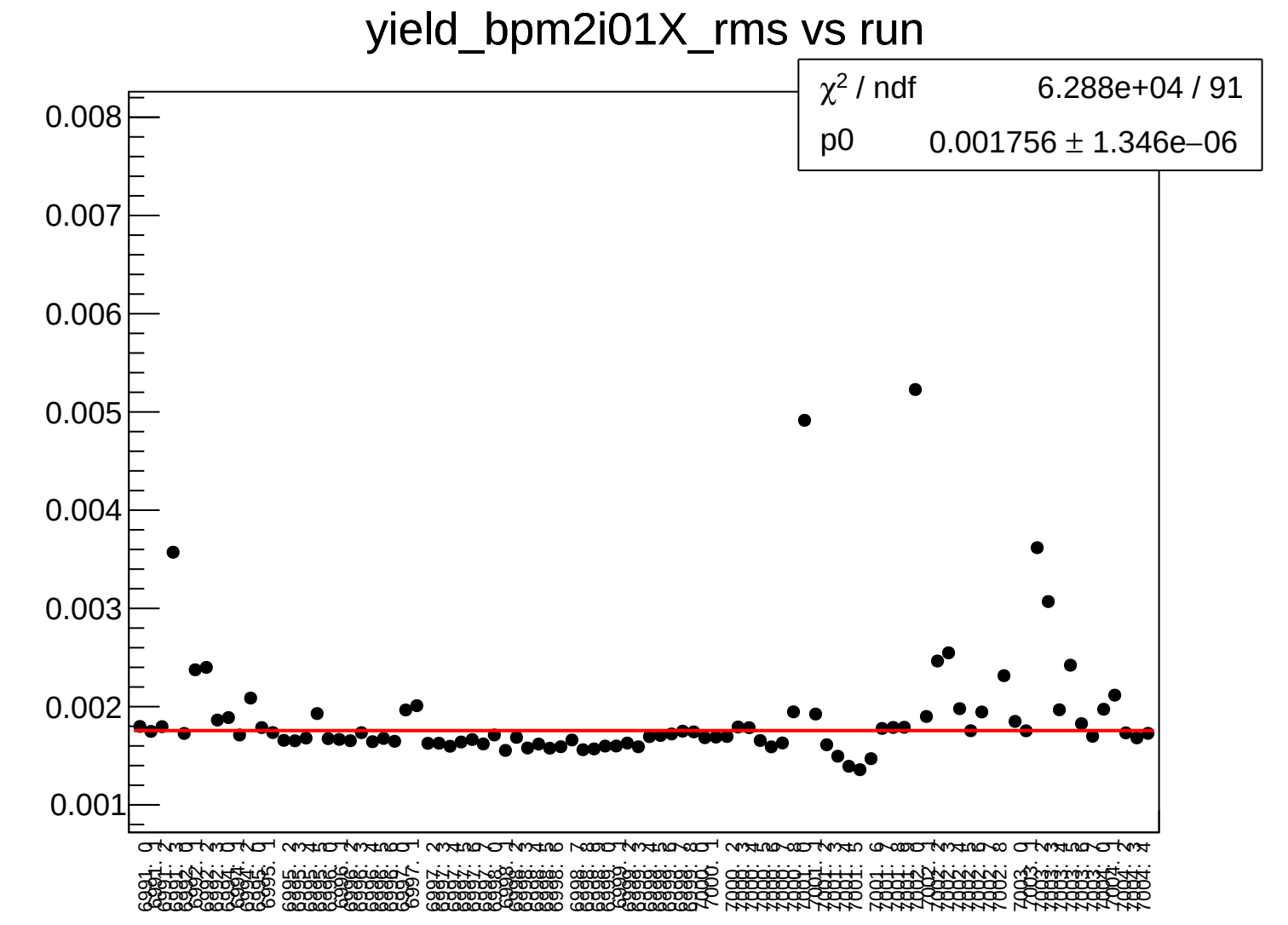

yield_bpm1i06X_rms vs run
χ² / ndf 1.73e+04 / 91
p0 0.01008 ± 7.626e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

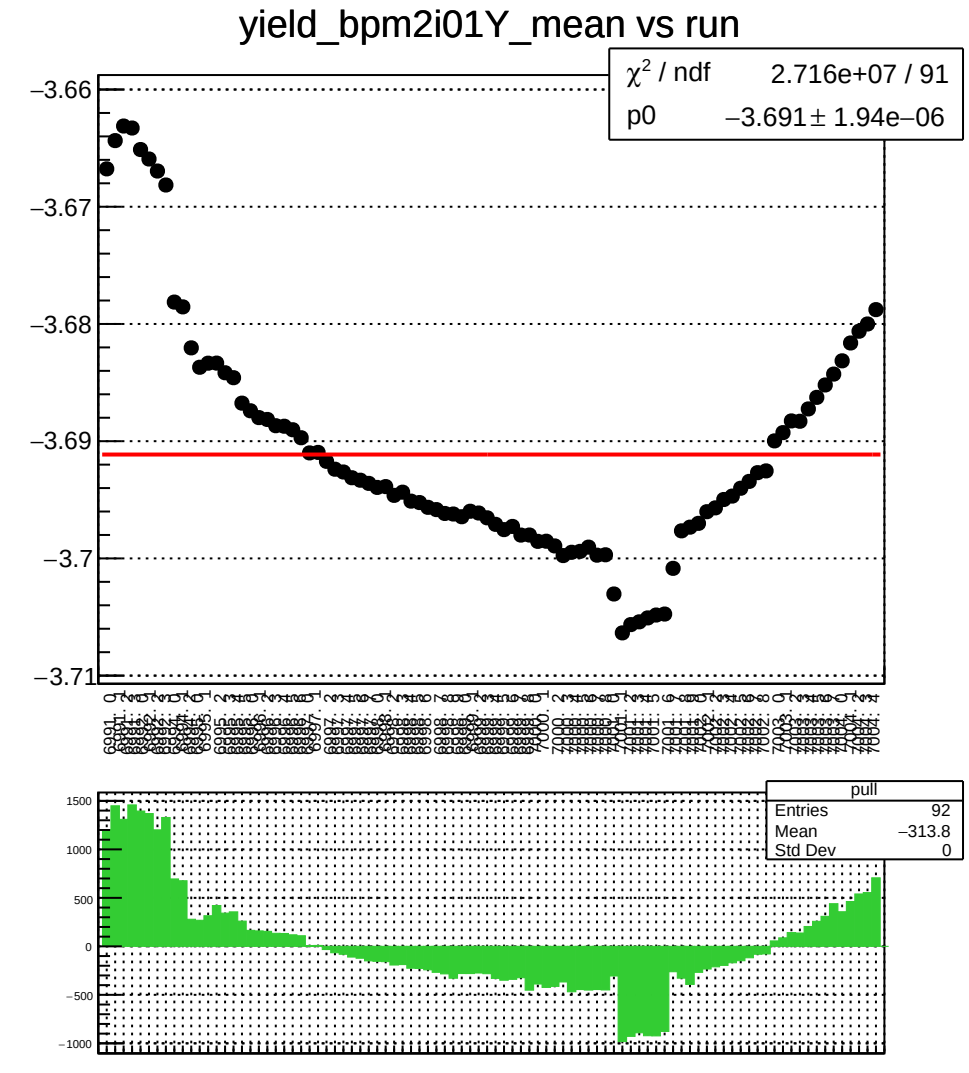

yield_bpm1i06Y_mean vs run
χ² / ndf 2.794e+08 / 91
p0 0.8846 ± 3.759e−06
0.95
0.9
0.85
0.8
0.75
pull
Entries 92
Mean 1425
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

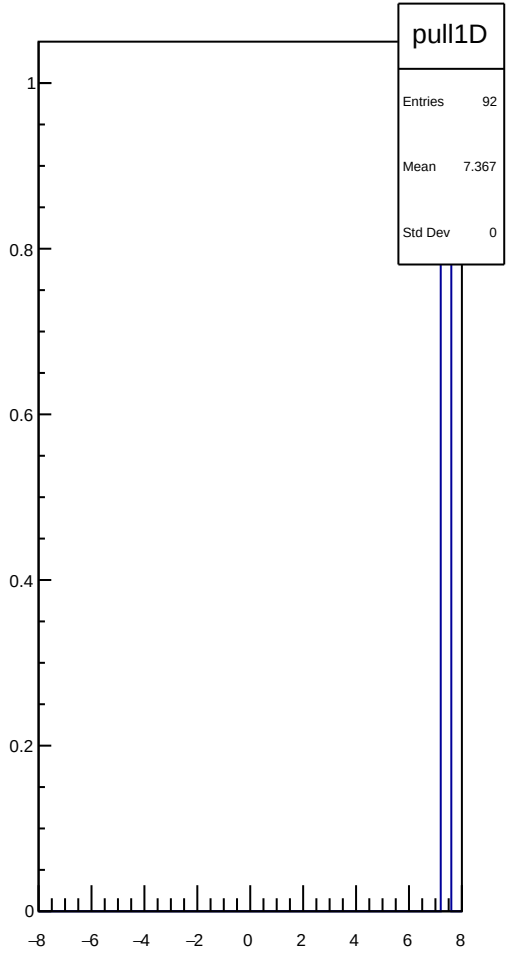

yield_bpm1i06Y_rms vs run
χ² / ndf 1.219e+05 / 91
p0 0.003407 ± 2.658e−06
0.025
0.02
0.015
0.01
0.005

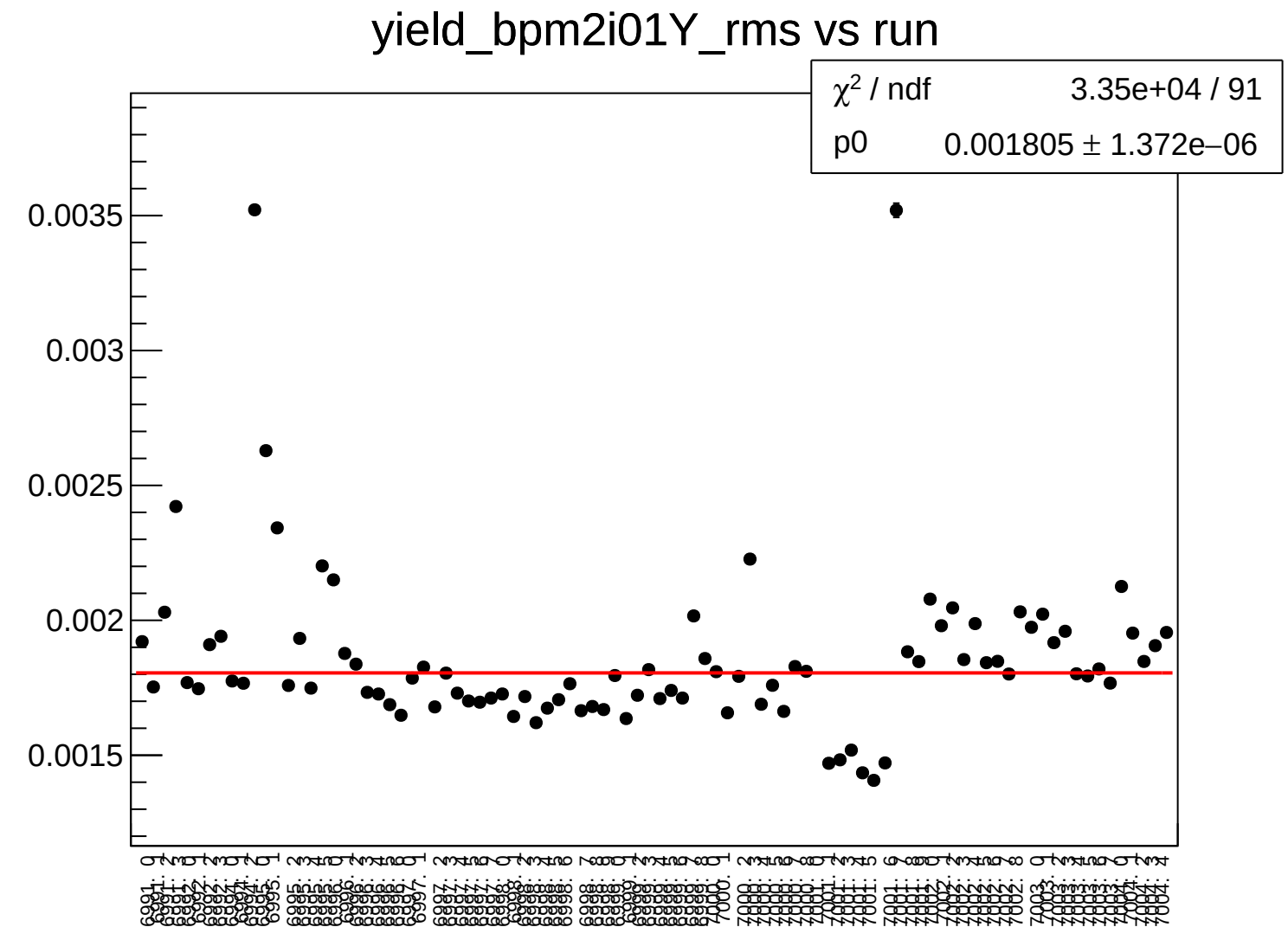

yield_bpm2i01X_mean vs run
χ² / ndf 5.469e+07 / 91
p0 0.4596 ± 1.903e−06
0.49
0.48
0.47
0.46
0.45
0.44
pull
Entries 92
Mean −148.5
Std Dev 0
2000
1500
1000
500
0
−500
−1000

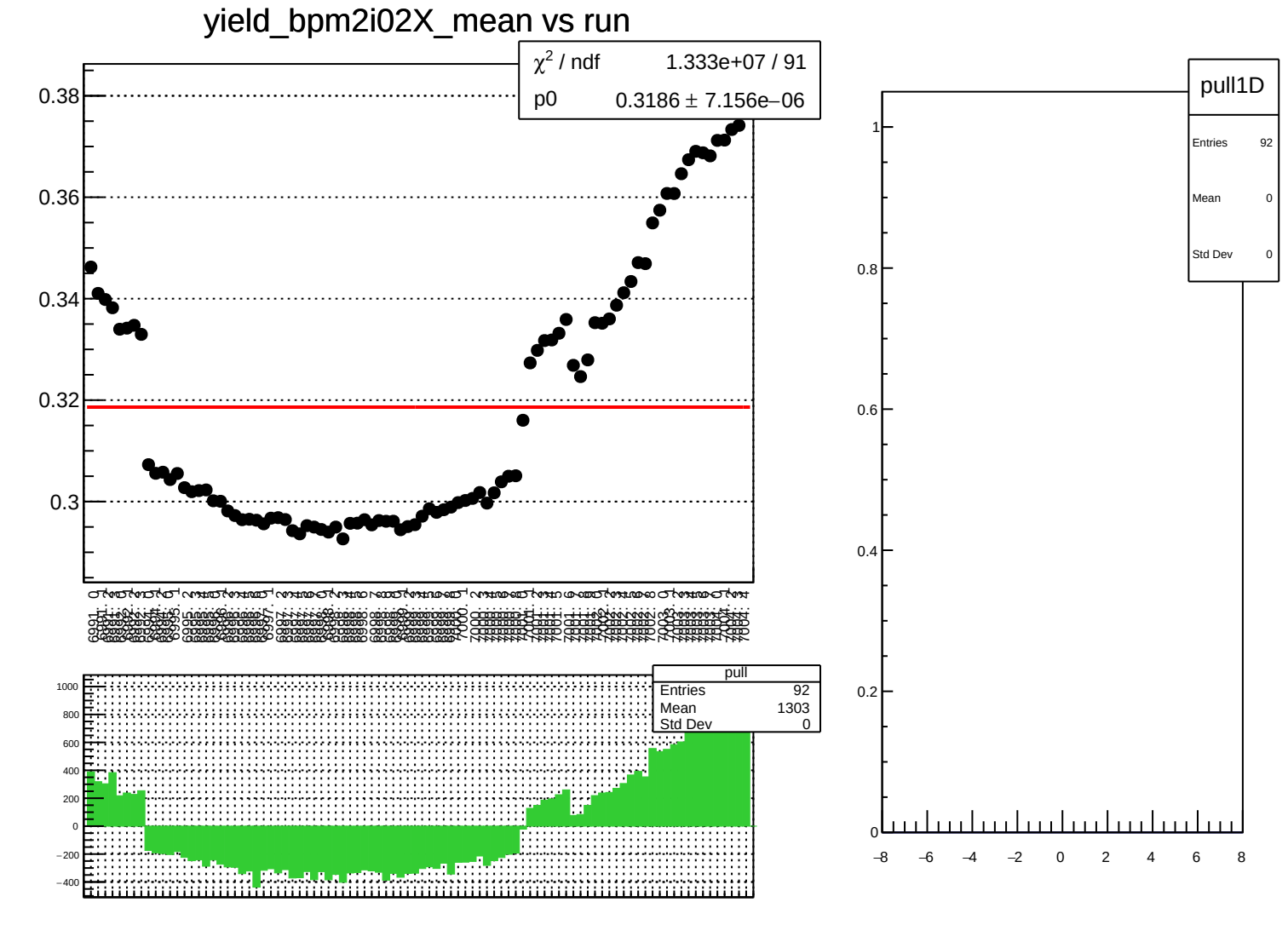

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

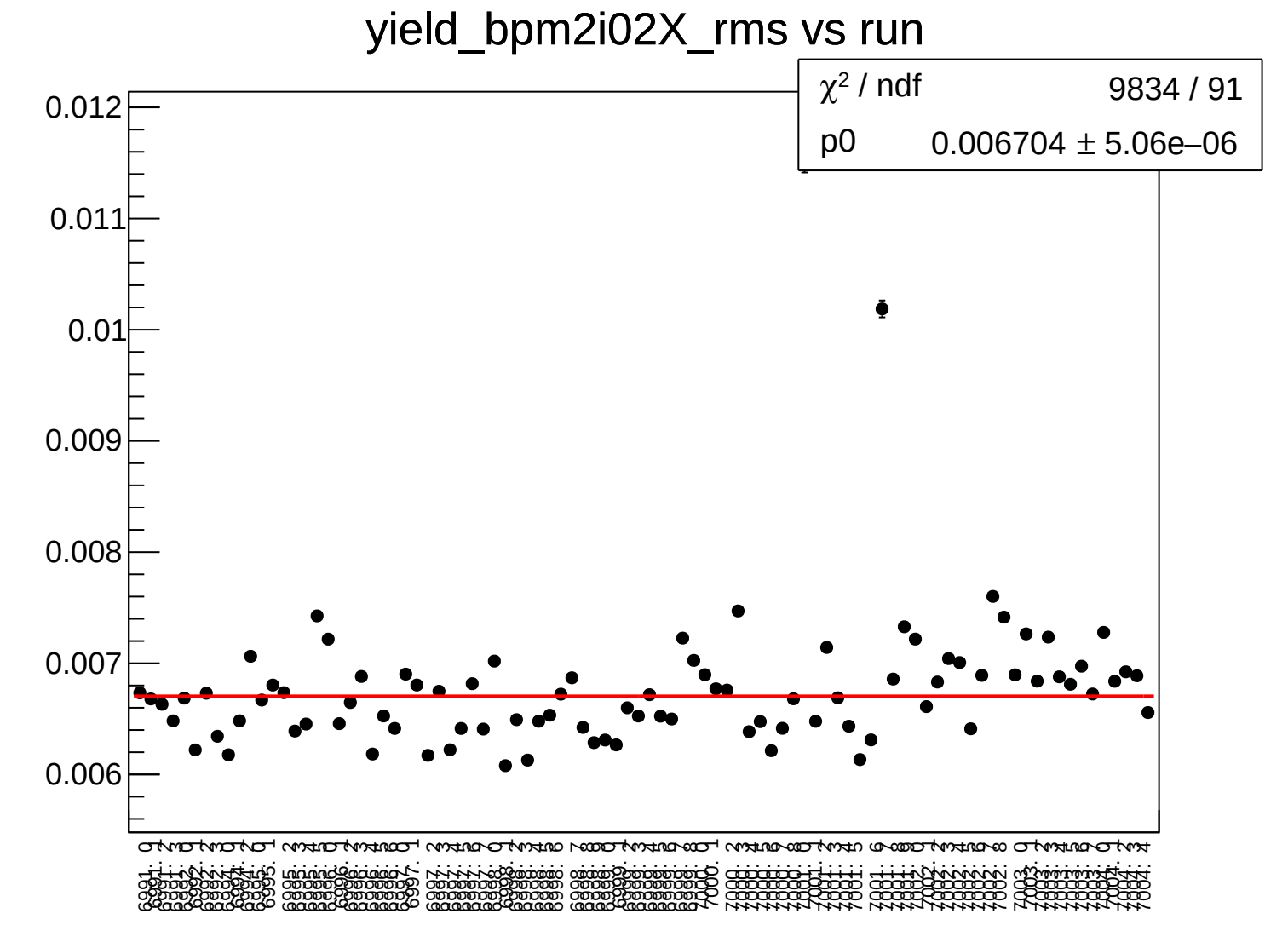

yield_bpm2i01X_rms vs run
χ² / ndf 6.288e+04 / 91
p0 0.001756 ± 1.346e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

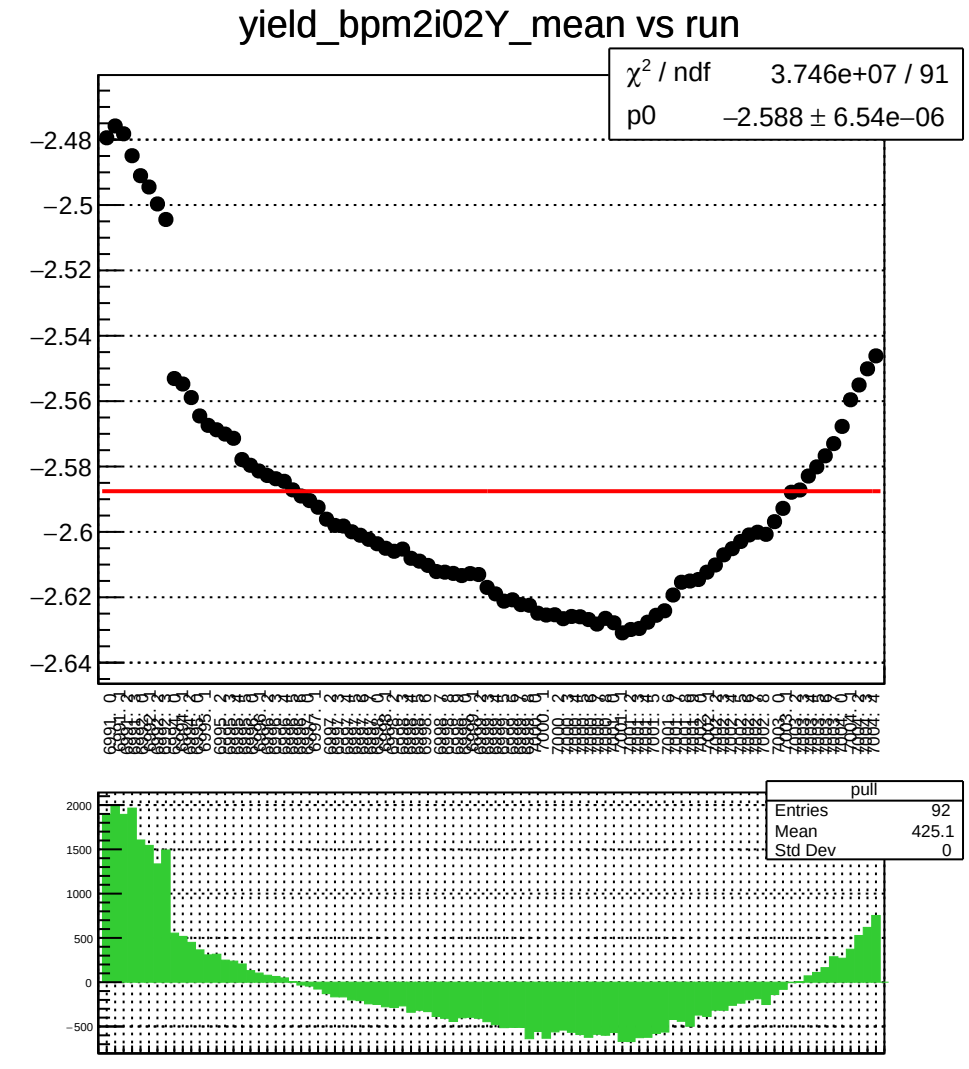

yield_bpm2i01Y_mean vs run
χ² / ndf 2.716e+07 / 91
p0 −3.691 ± 1.94e−06
−3.66
−3.67
−3.68
−3.69
−3.7
−3.71
pull
Entries 92
Mean −313.8
Std Dev 0
1500
1000
500
0
−500
−1000

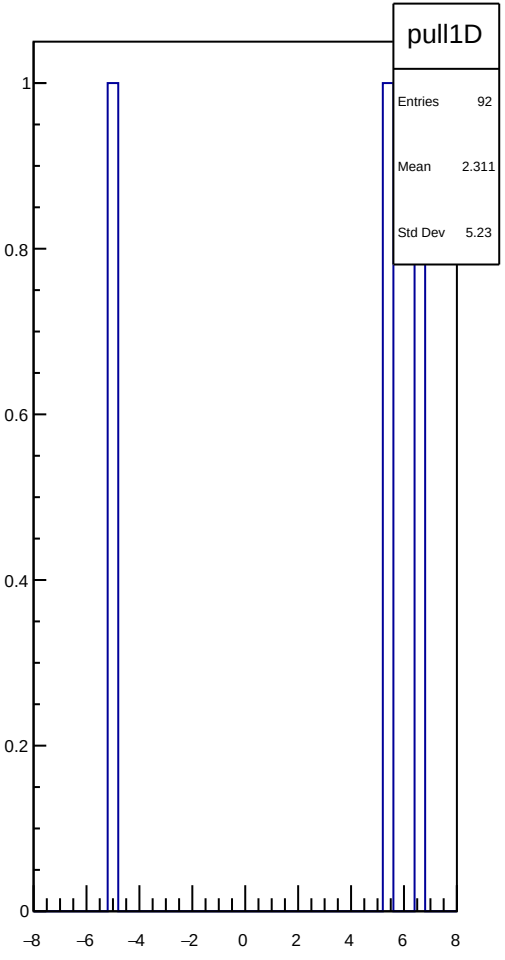

pull1D
Entries 92
Mean 7.367
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

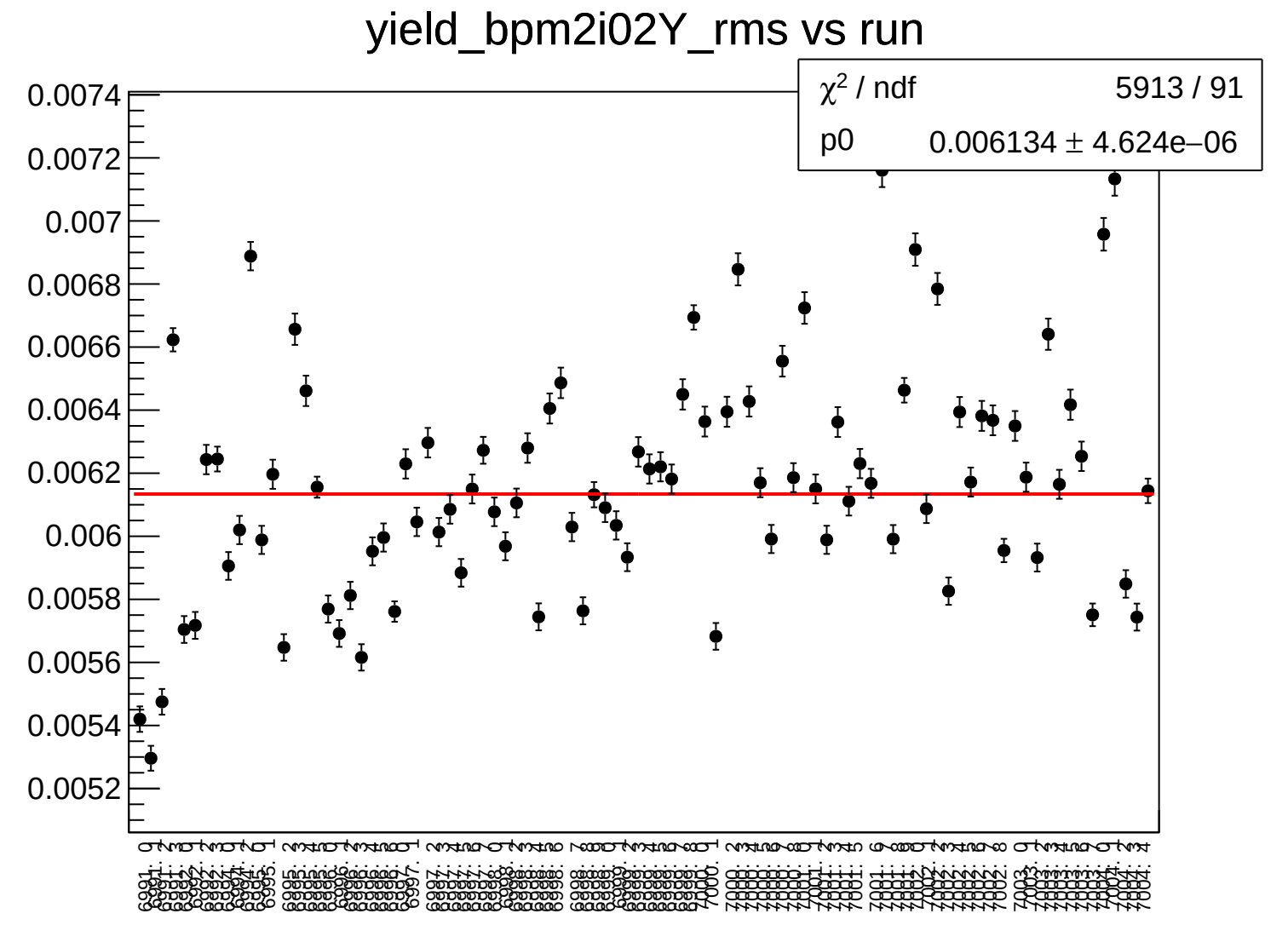

yield_bpm2i01Y_rms vs run
χ² / ndf 3.35e+04 / 91
p0 0.001805 ± 1.372e−06
0.0035
0.003
0.0025
0.002
0.0015

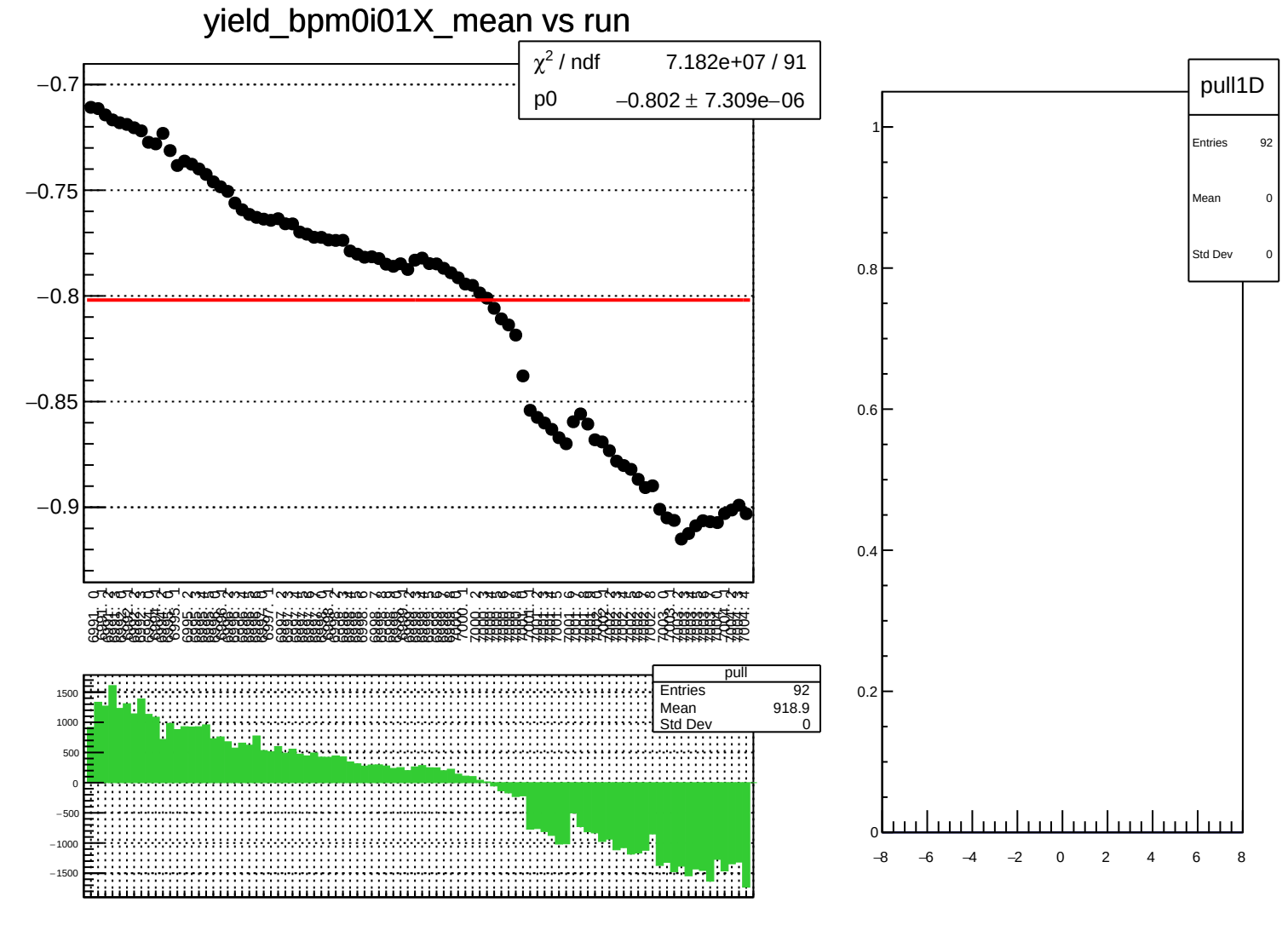

yield_bpm2i02X_mean vs run
χ² / ndf 1.333e+07 / 91
p0 0.3186 ± 7.156e−06
0.38
0.36
0.34
0.32
0.3
pull
Entries 92
Mean 1303
Std Dev 0
1000
800
600
400
200
0
−200
−400
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

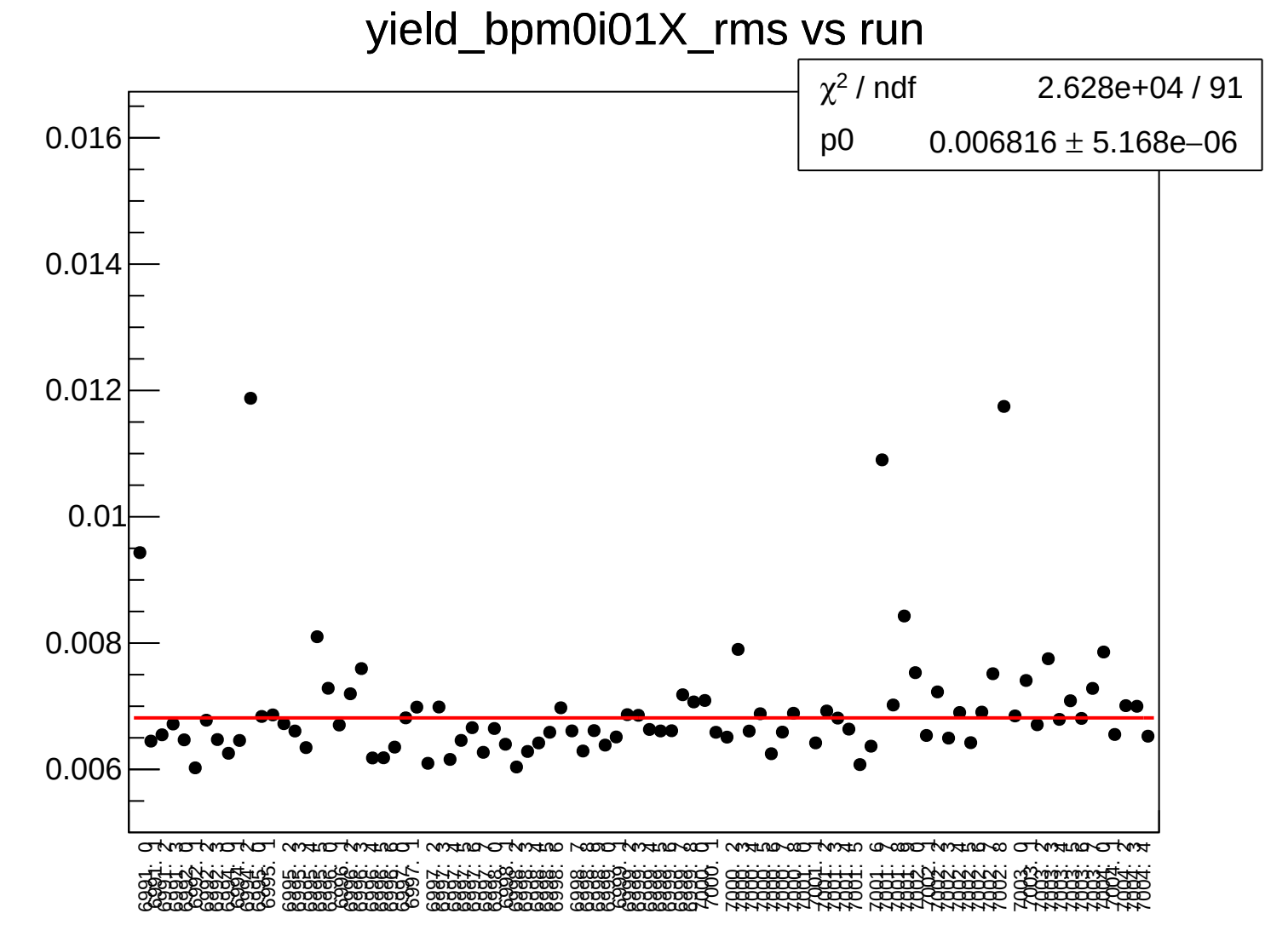

yield_bpm2i02X_rms vs run
χ² / ndf 9834 / 91
p0 0.006704 ± 5.06e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

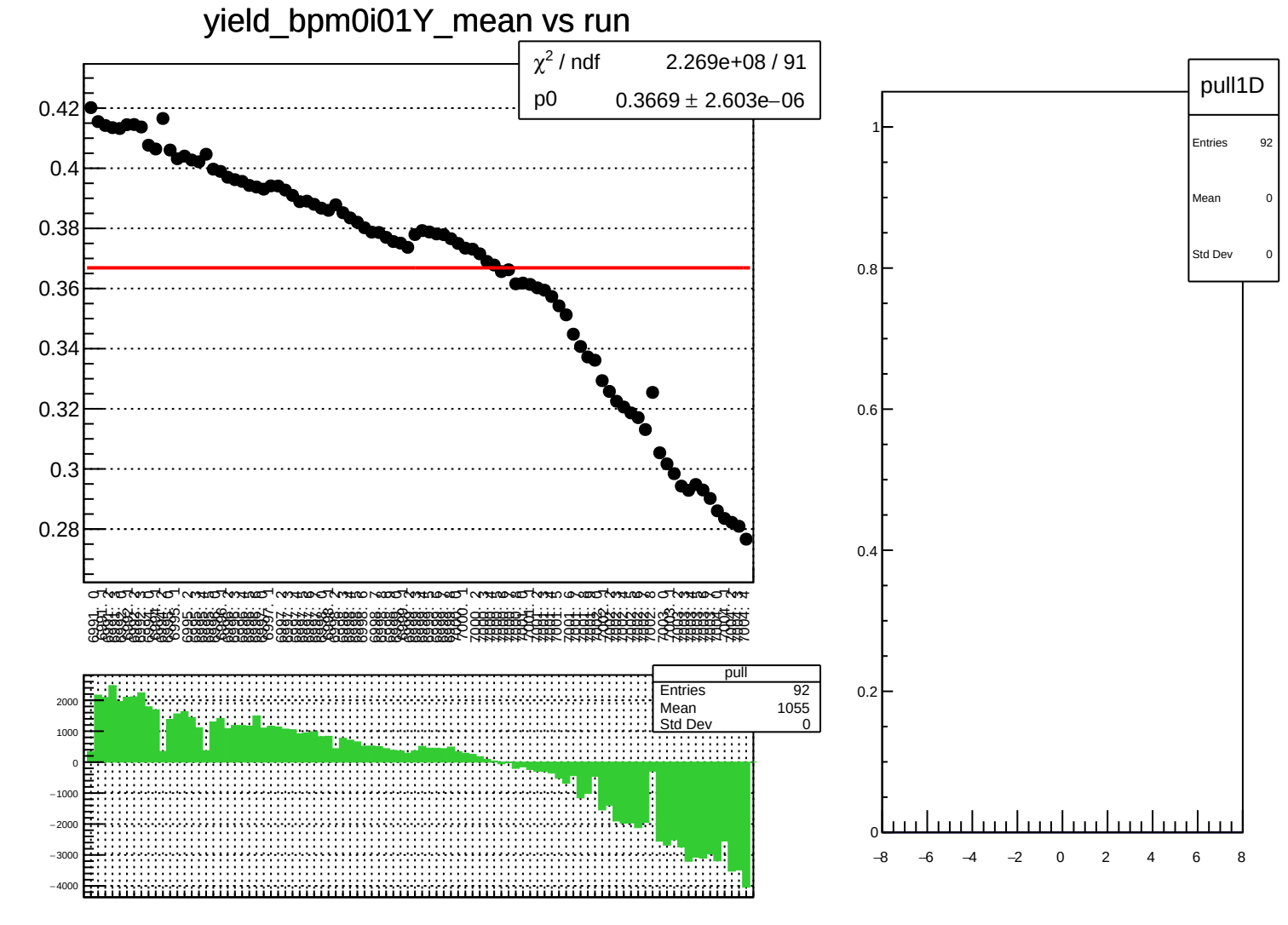

yield_bpm2i02Y_mean vs run
χ² / ndf 3.746e+07 / 91
p0 –2.588 ± 6.54e–06
–2.48
–2.5
–2.52
–2.54
–2.56
–2.58
–2.6
–2.62
–2.64
pull
Entries 92
Mean 425.1
Std Dev 0
2000
1500
1000
500
0
–500

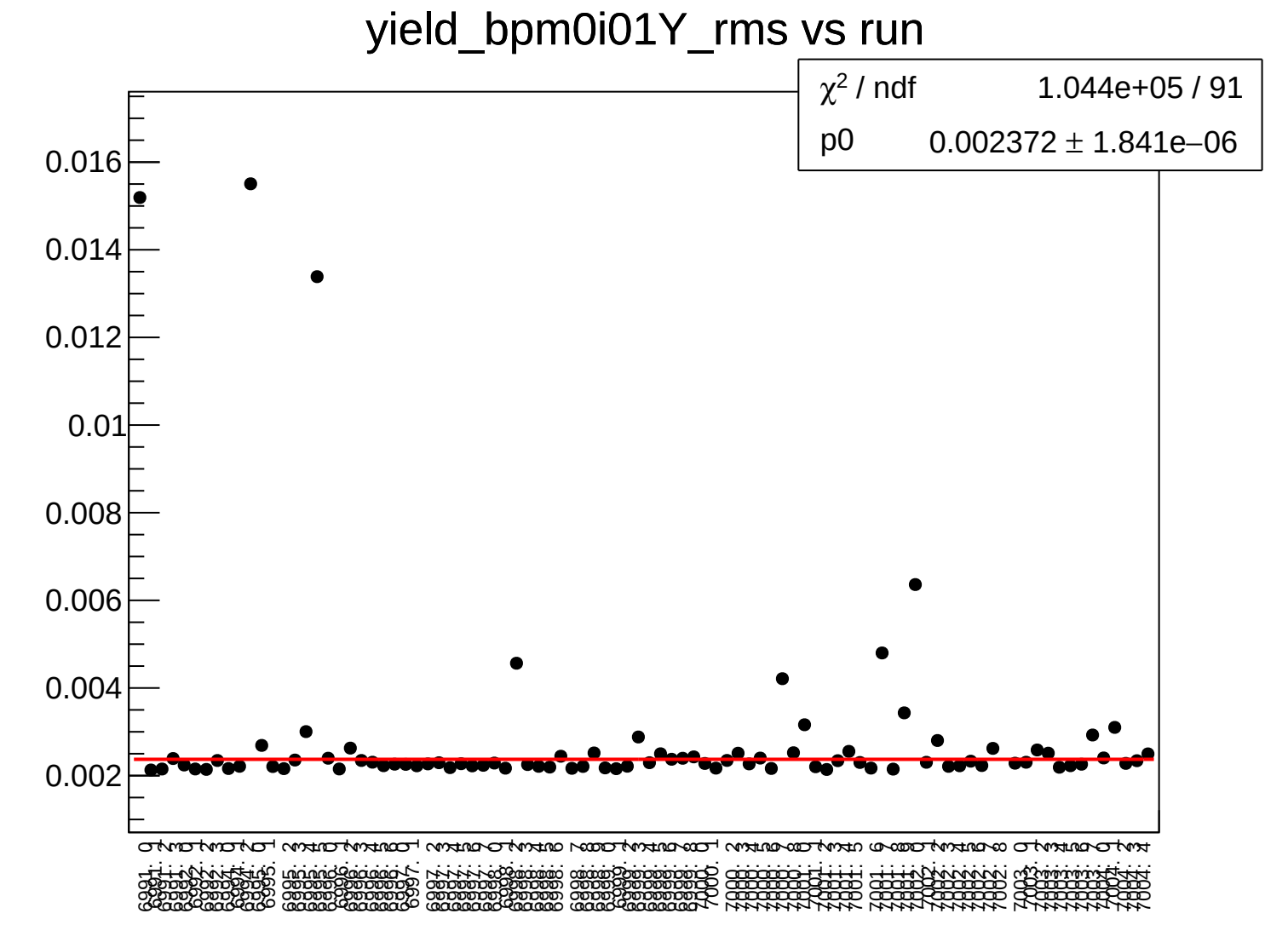

pull1D
Entries 92
Mean 2.311
Std Dev 5.23
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

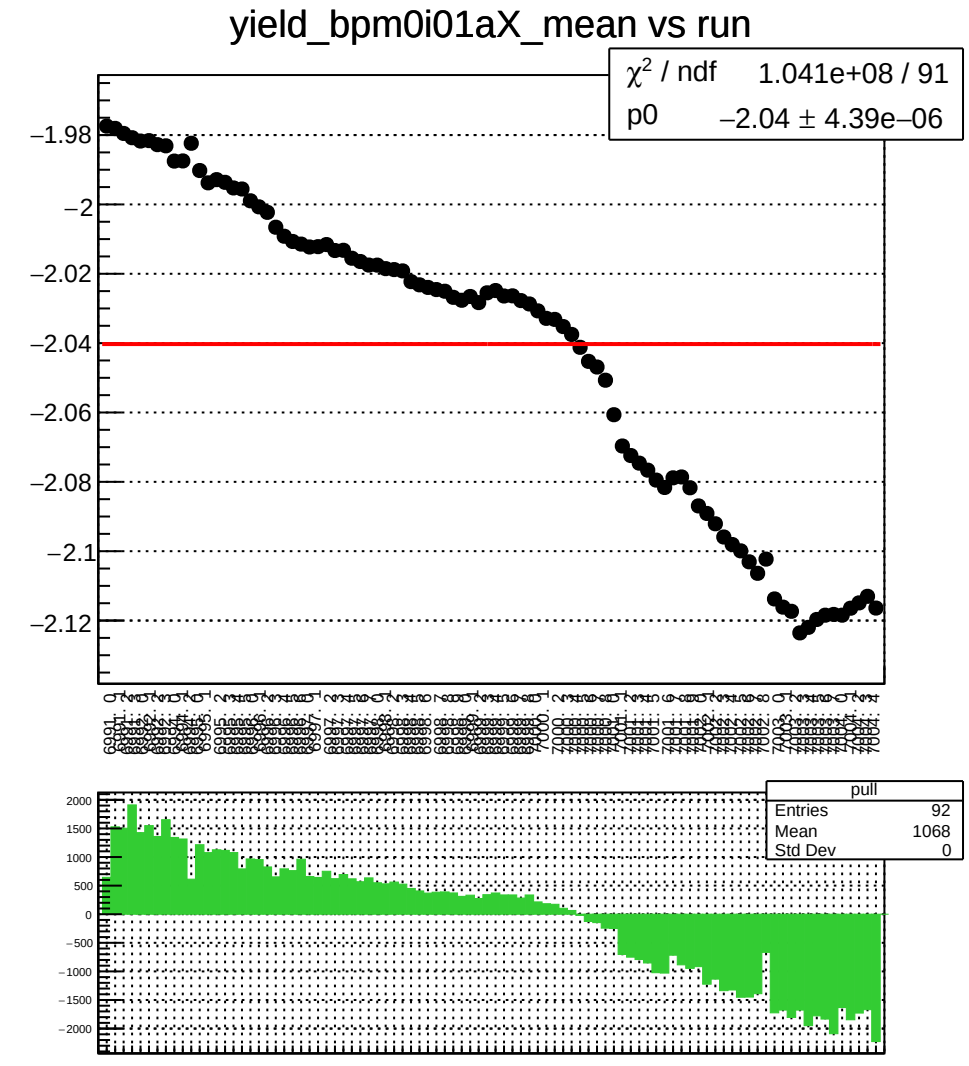

yield_bpm2i02Y_rms vs run
χ² / ndf 5913 / 91
p0 0.006134 ± 4.624e−06
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

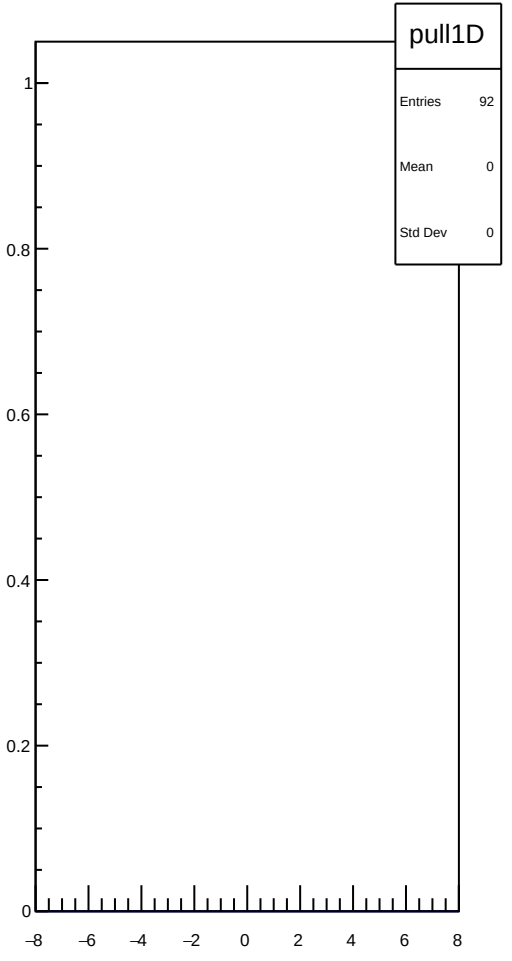

yield_bpm0i01X_mean vs run
χ² / ndf 7.182e+07 / 91
p0 −0.802 ± 7.309e−06
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 92
Mean 918.9
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

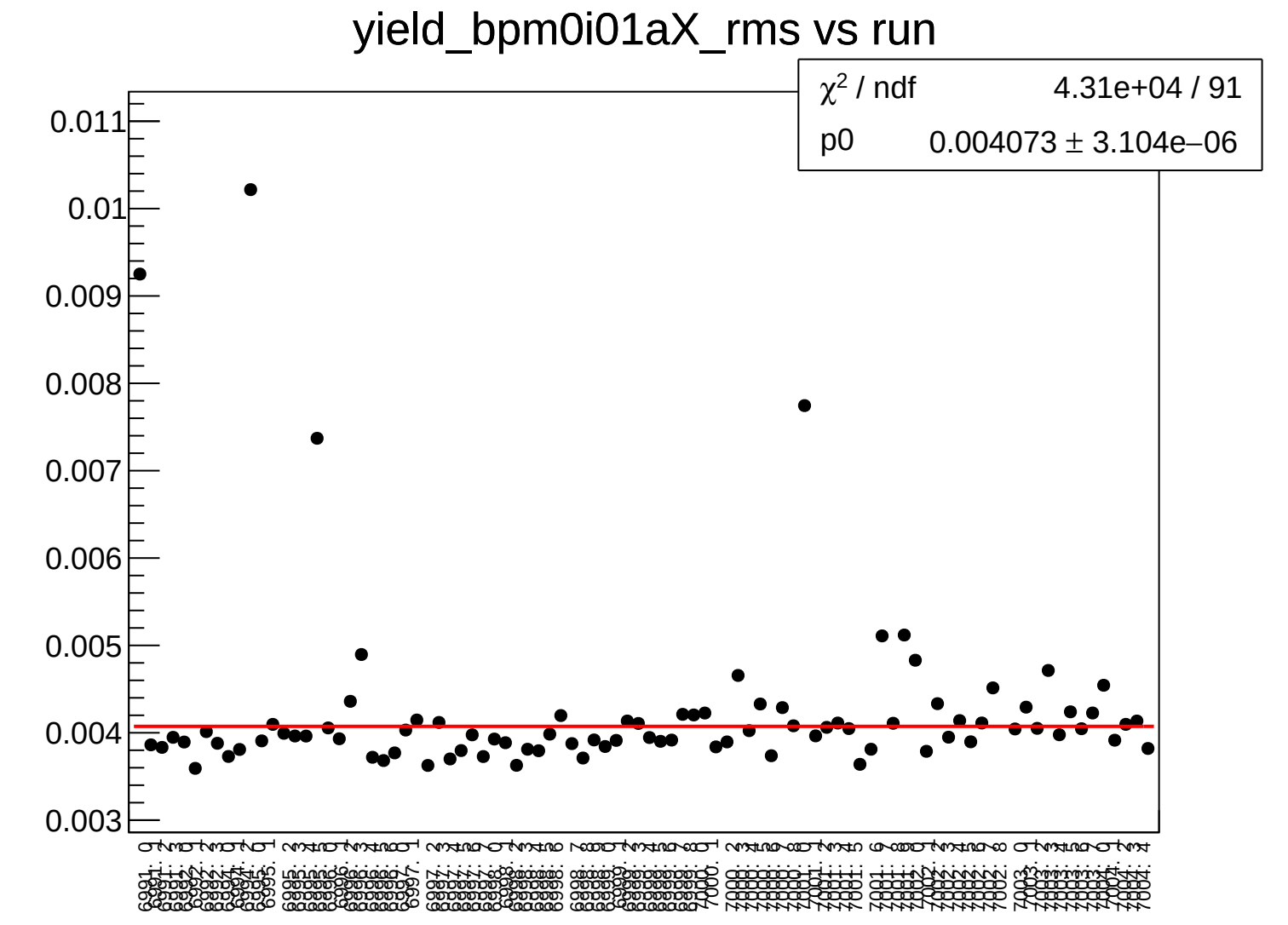

yield_bpm0i01X_rms vs run
χ² / ndf 2.628e+04 / 91
p0 0.006816 ± 5.168e−06
0.016
0.014
0.012
0.01
0.008
0.006

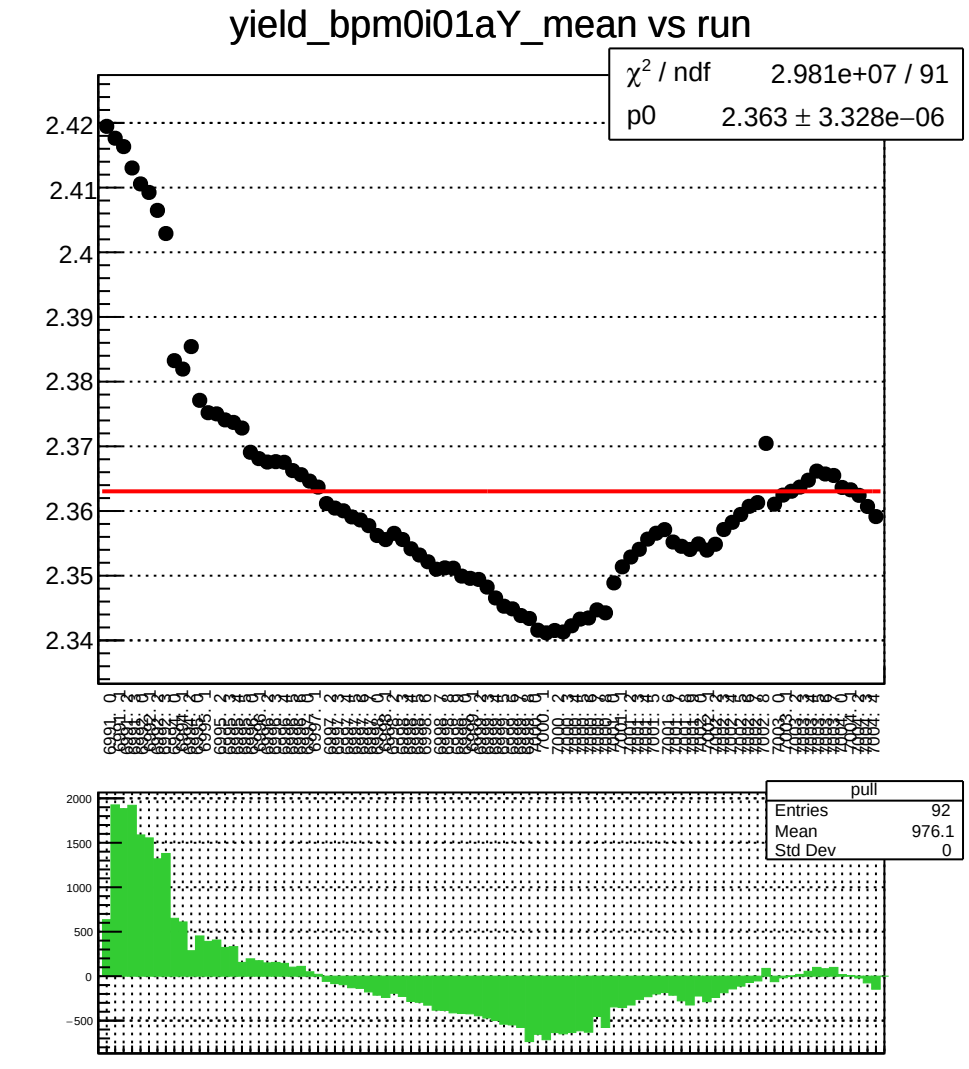

yield_bpm0i01Y_mean vs run
χ² / ndf 2.269e+08 / 91
p0 0.3669 ± 2.603e−06
0.42
0.4
0.38
0.36
0.34
0.32
0.3
0.28
pull
Entries 92
Mean 1055
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

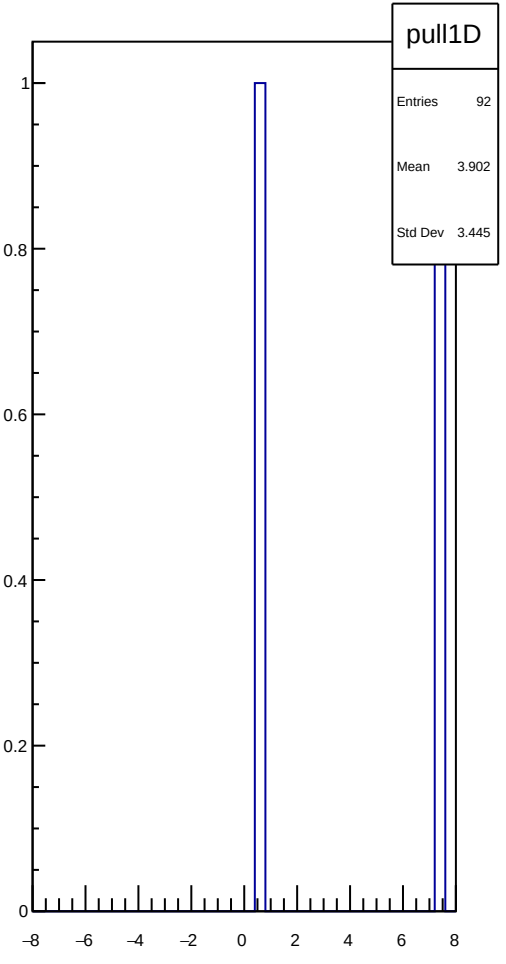

yield_bpm0i01Y_rms vs run
χ² / ndf 1.044e+05 / 91
p0 0.002372 ± 1.841e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

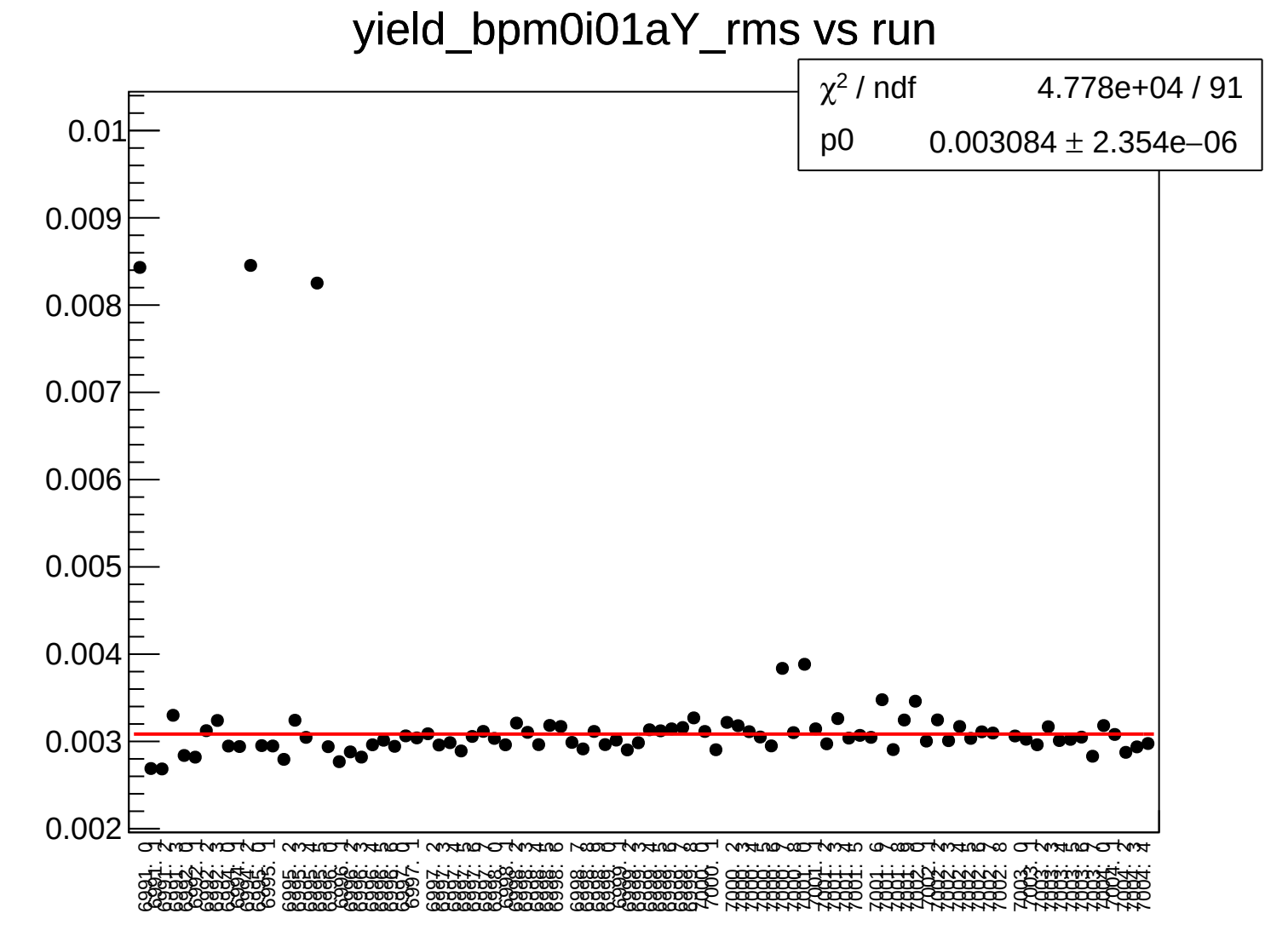

yield_bpm0i01aX_mean vs run
χ² / ndf 1.041e+08 / 91
p0 −2.04 ± 4.39e−06
−1.98
−2
−2.02
−2.04
−2.06
−2.08
−2.1
−2.12
pull
Entries 92
Mean 1068
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000

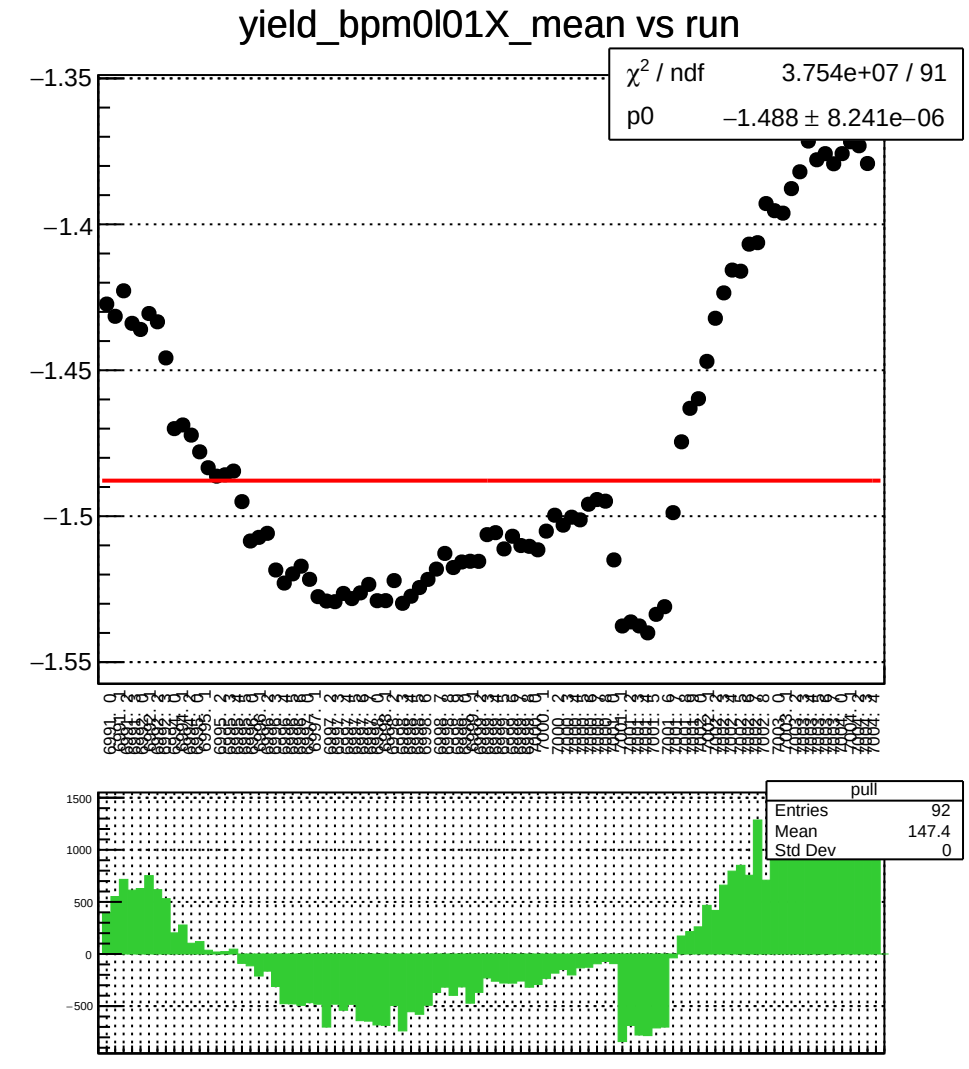

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

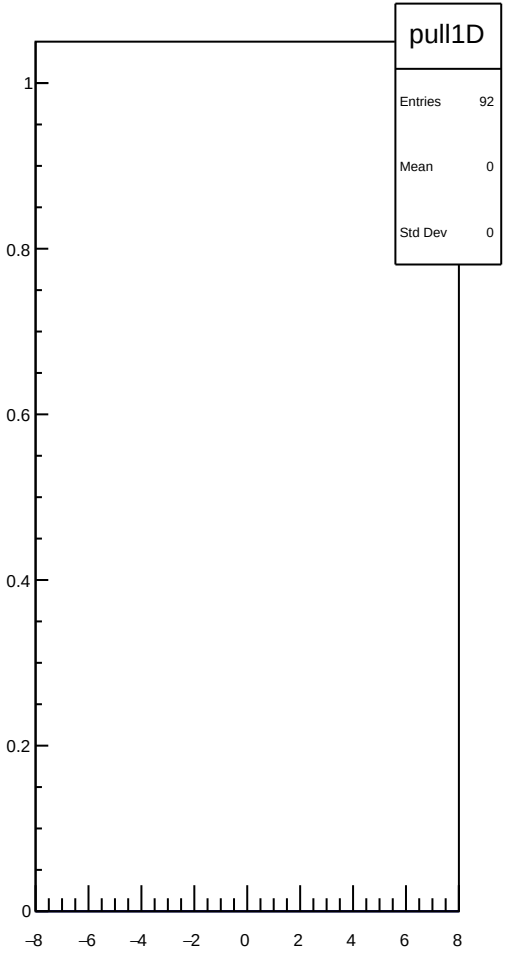

yield_bpm0i01aX_rms vs run
χ² / ndf 4.31e+04 / 91
p0 0.004073 ± 3.104e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

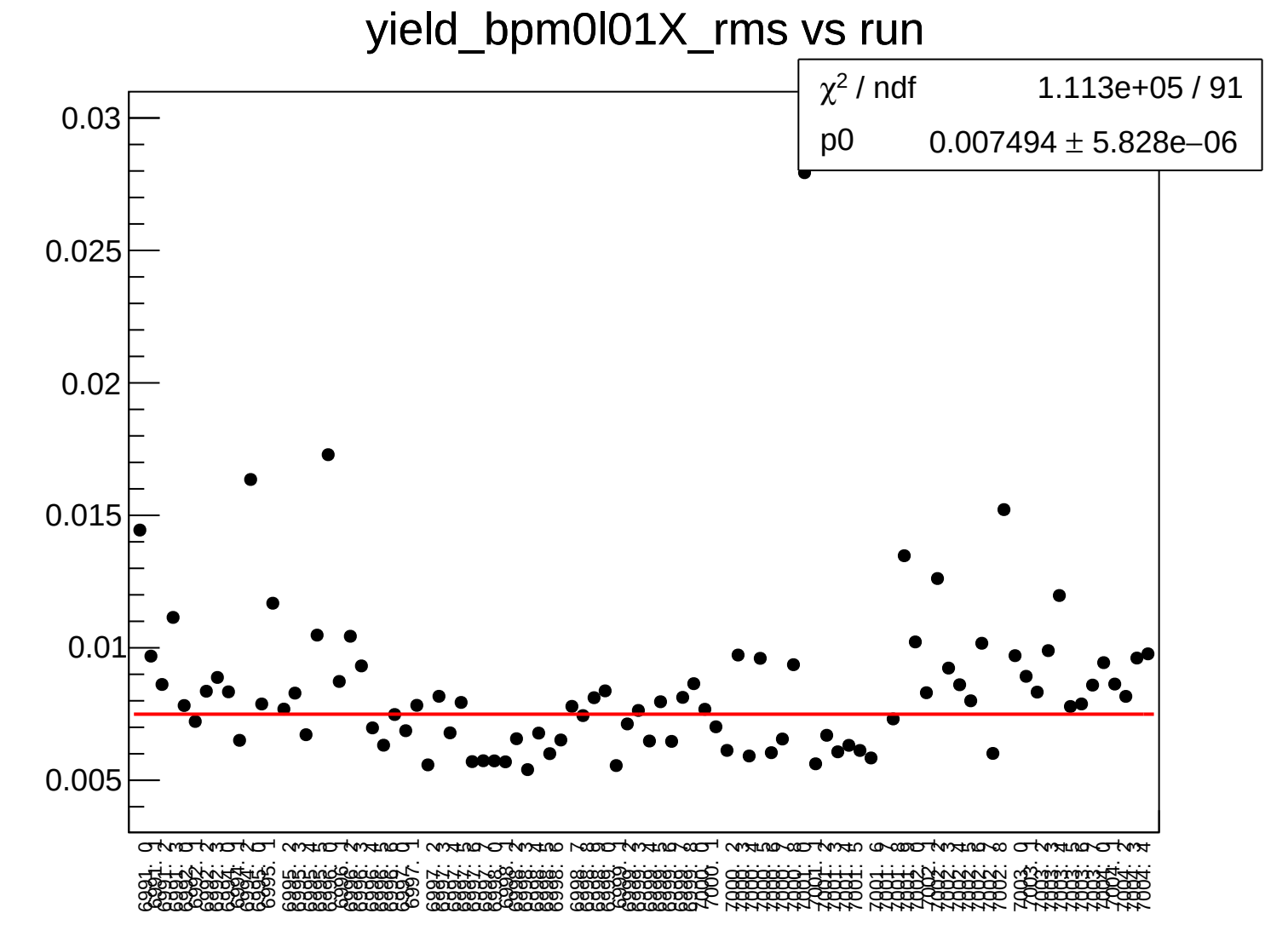

yield_bpm0i01aY_mean vs run
χ² / ndf 2.981e+07 / 91
p0 2.363 ± 3.328e−06
2.42
2.41
2.4
2.39
2.38
2.37
2.36
2.35
2.34
pull
Entries 92
Mean 976.1
Std Dev 0
2000
1500
1000
500
0
−500

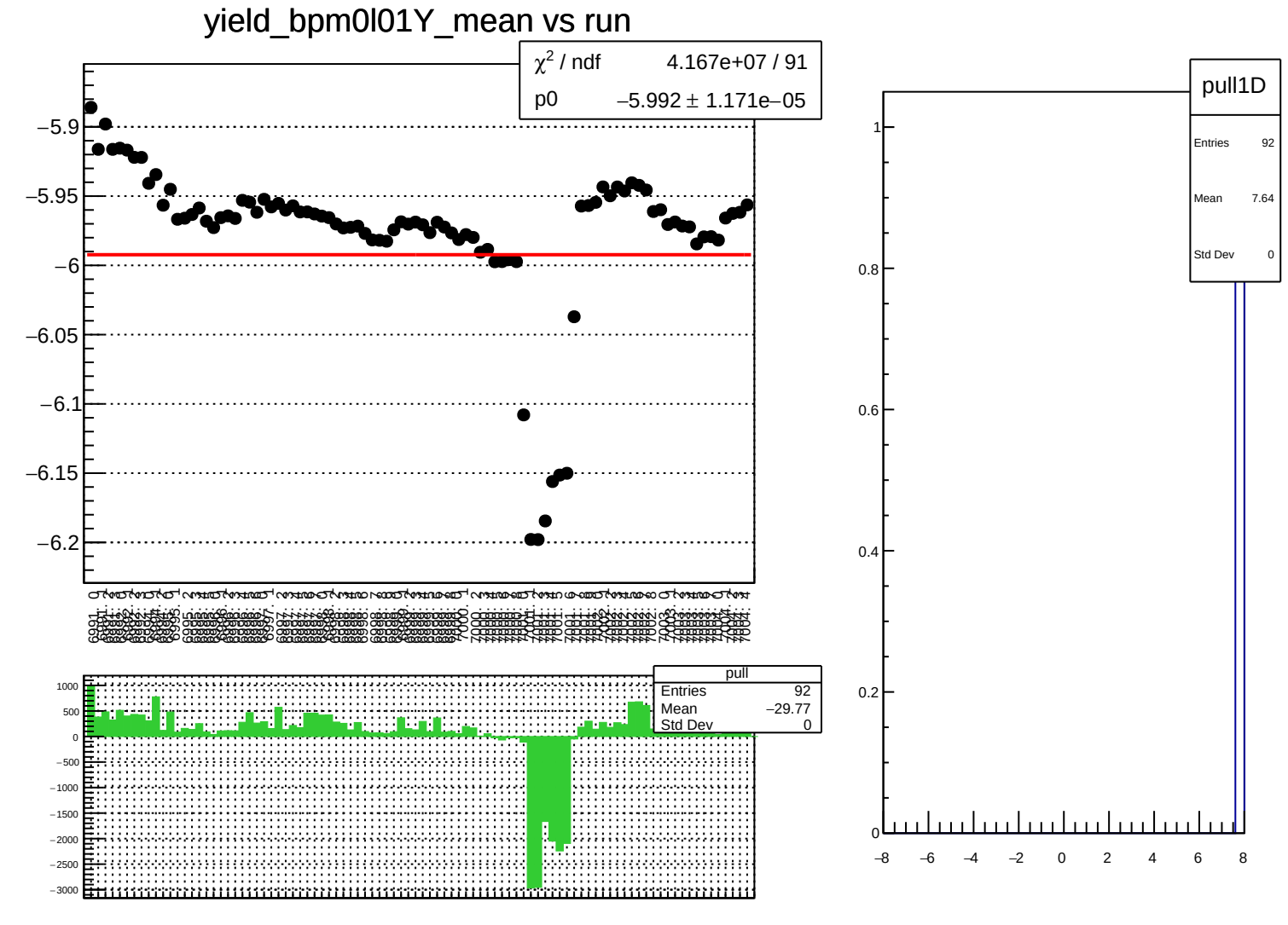

pull1D
Entries 92
Mean 3.902
Std Dev 3.445
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

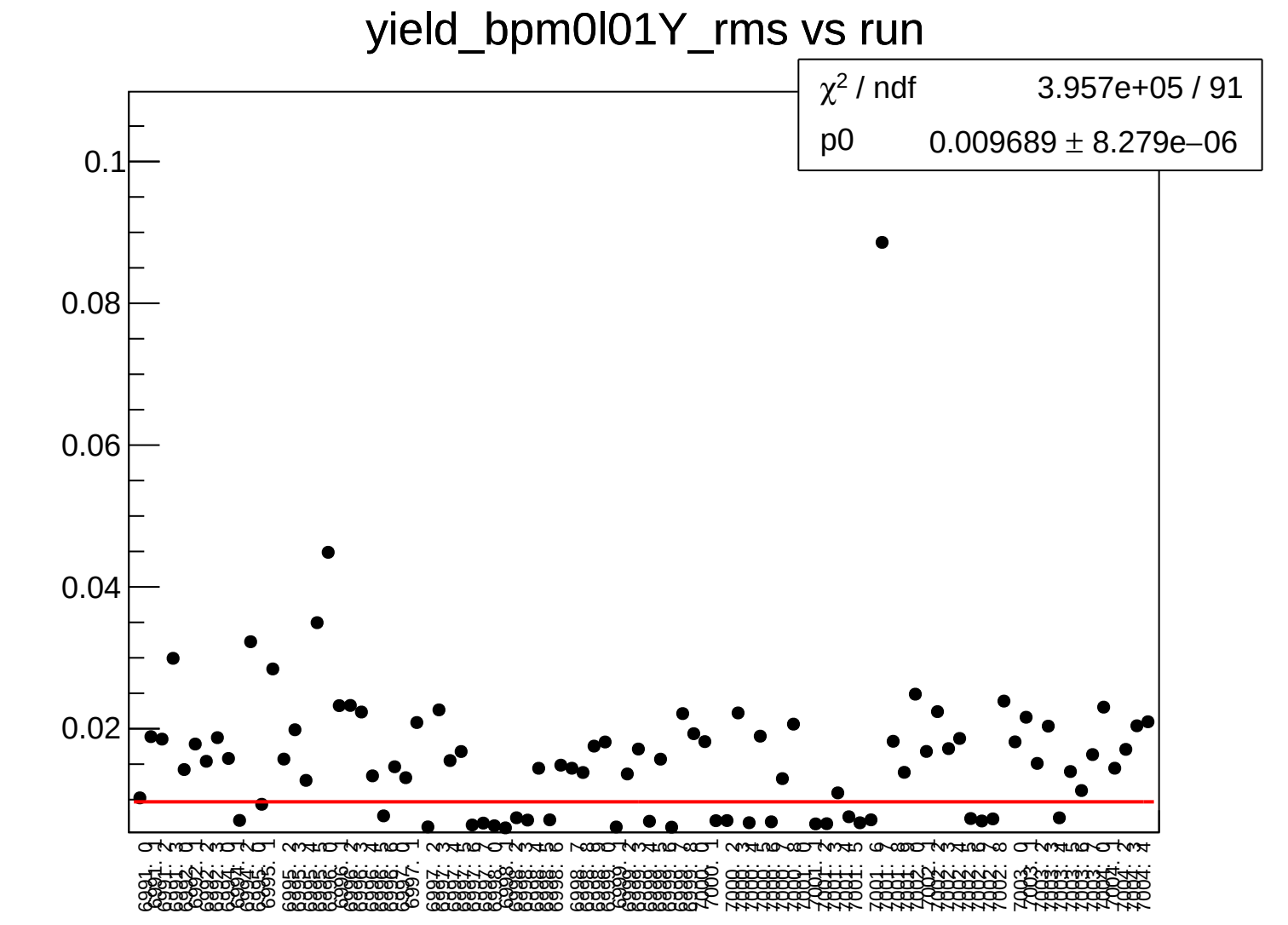

yield_bpm0i01aY_rms vs run
χ^2 / ndf 4.778e+04 / 91
p0 0.003084 ± 2.354e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

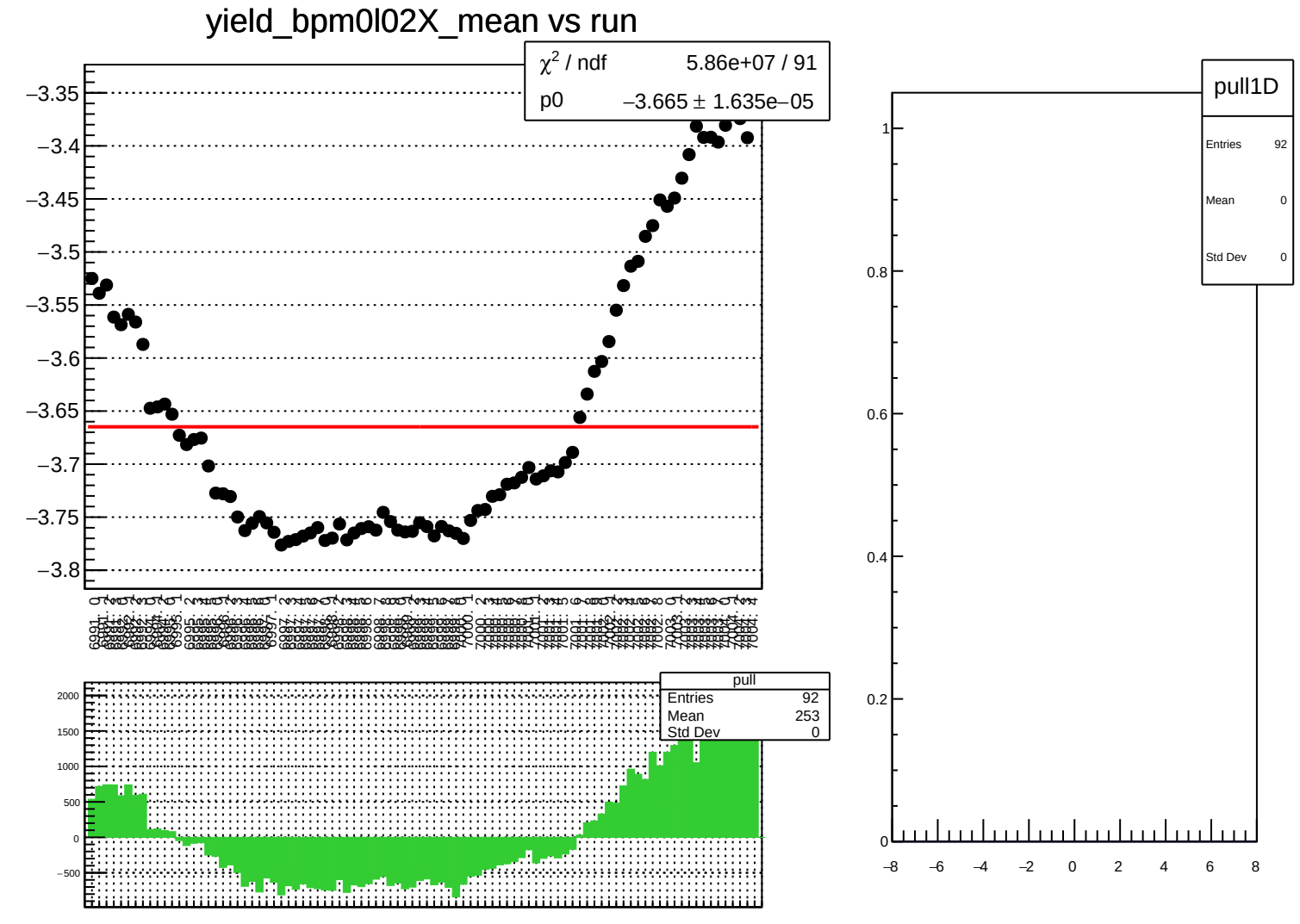

yield_bpm0l01X_mean vs run
χ² / ndf 3.754e+07 / 91
p0 −1.488 ± 8.241e−06
−1.35
−1.4
−1.45
−1.5
−1.55
pull
Entries 92
Mean 147.4
Std Dev 0
1500
1000
500
0
−500

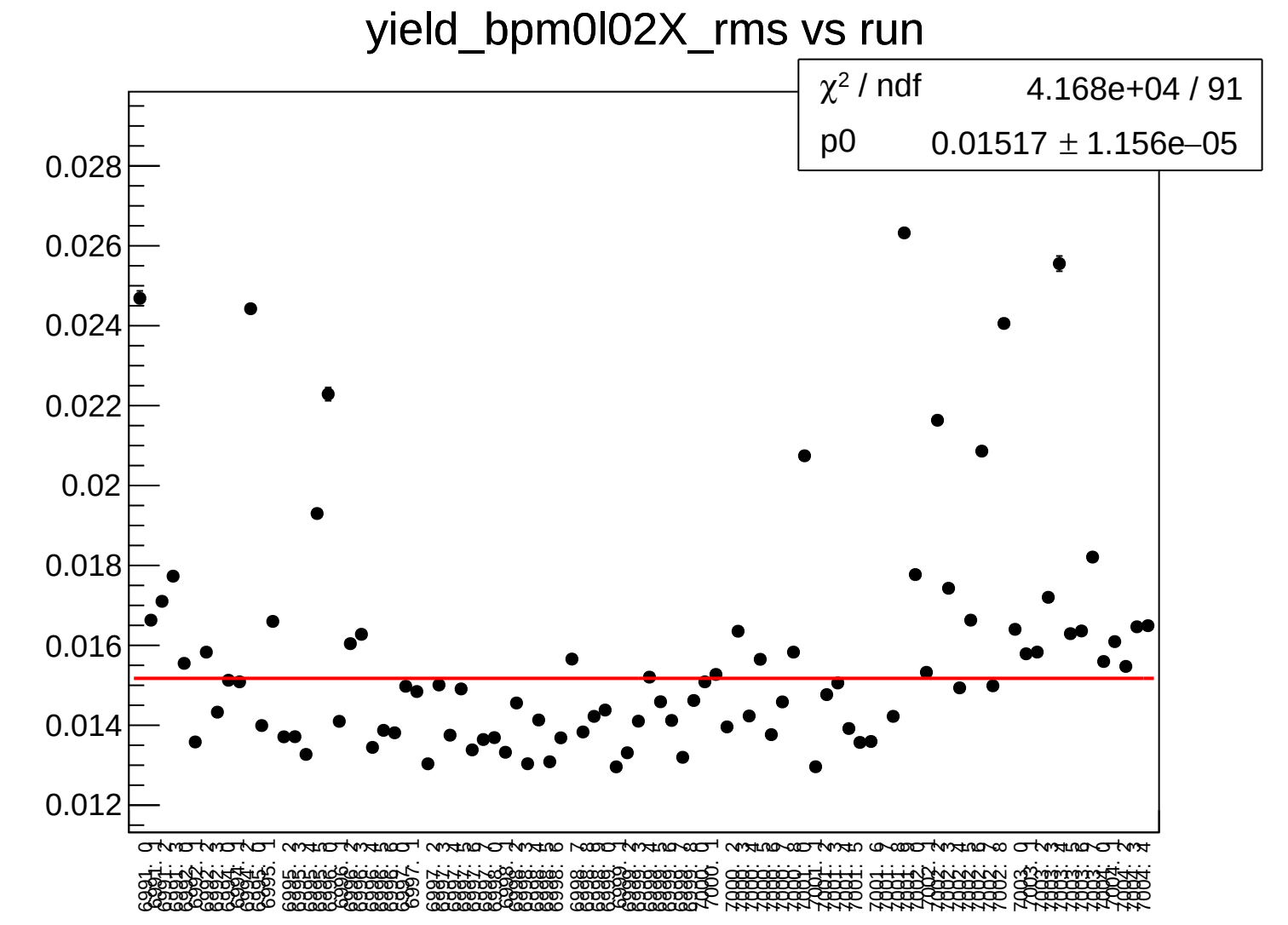

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

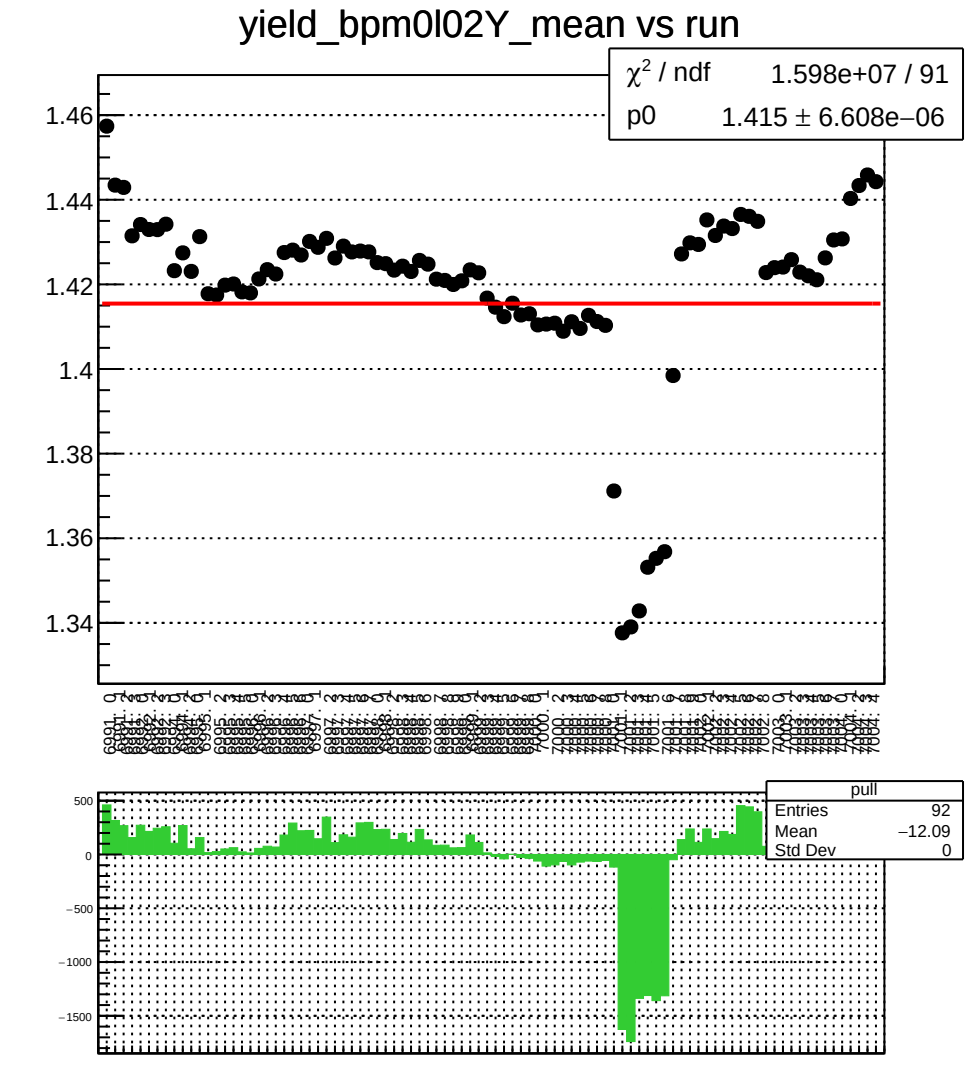

yield_bpm0l01X_rms vs run
χ² / ndf 1.113e+05 / 91
p0 0.007494 ± 5.828e−06
0.03
0.025
0.02
0.015
0.01
0.005

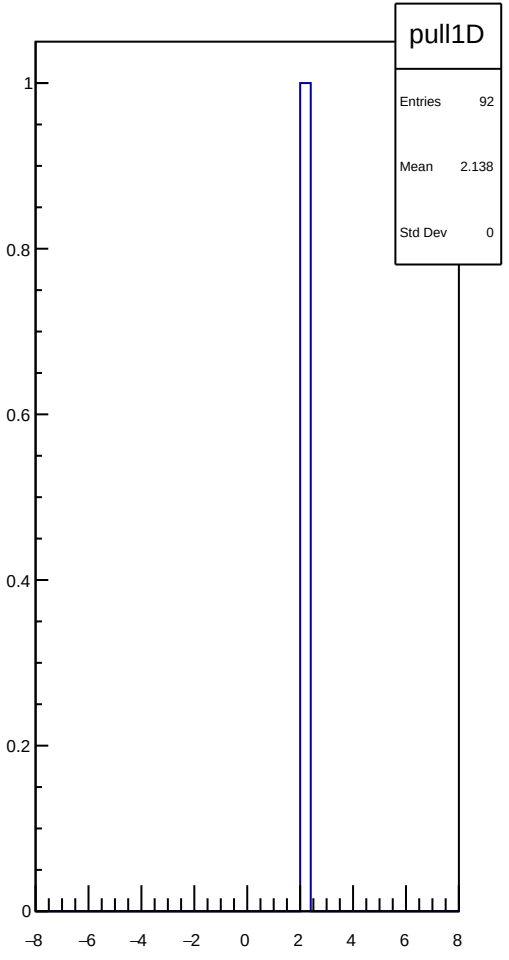

yield_bpm0l01Y_mean vs run
χ² / ndf 4.167e+07 / 91
p0 −5.992 ± 1.171e−05
−5.9
−5.95
−6
−6.05
−6.1
−6.15
−6.2
pull
Entries 92
Mean −29.77
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
pull1D
Entries 92
Mean 7.64
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

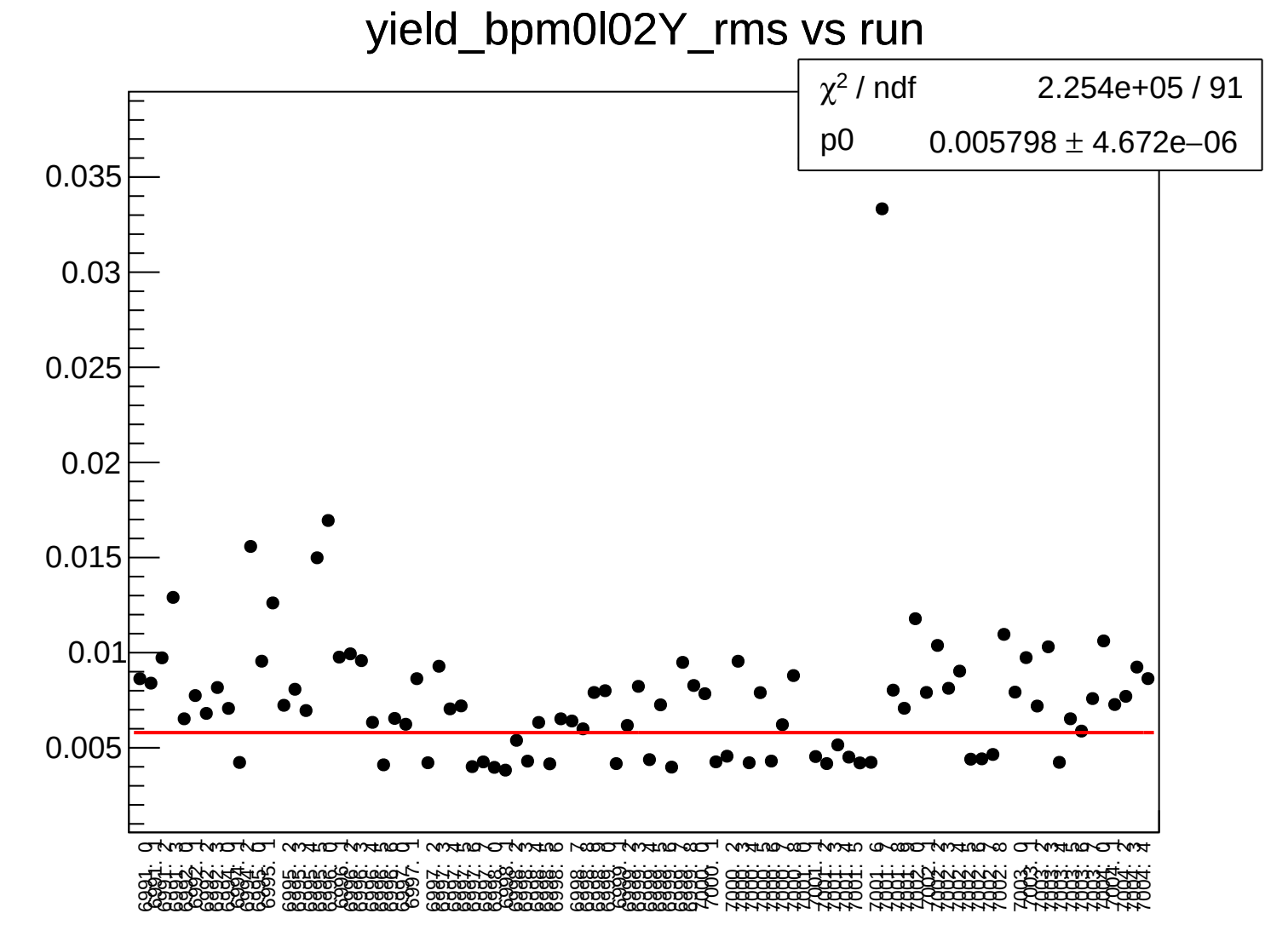

yield_bpm0l01Y_rms vs run
χ² / ndf 3.957e+05 / 91
p0 0.009689 ± 8.279e−06
0.1
0.08
0.06
0.04
0.02

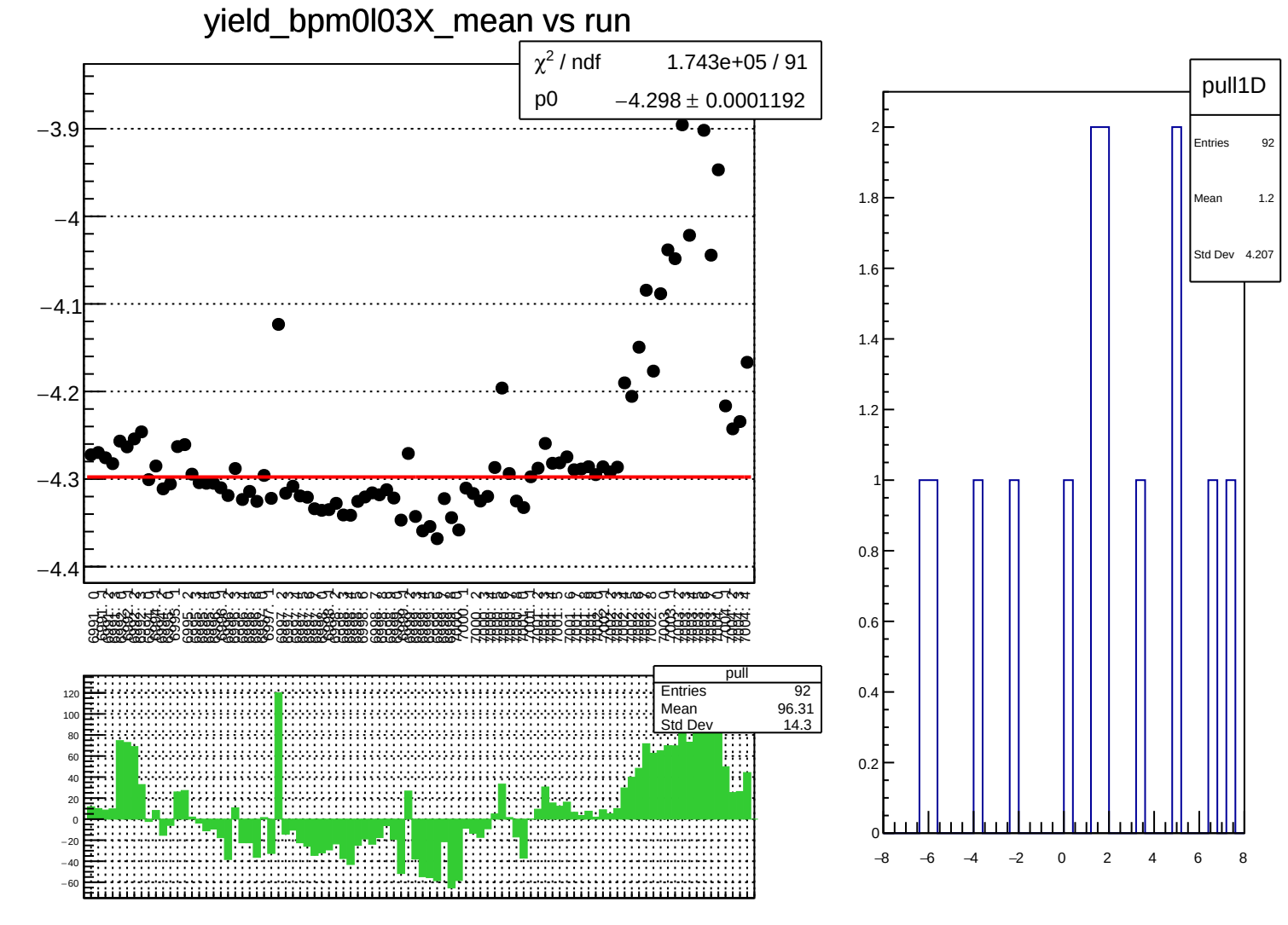

yield_bpm0l02X_mean vs run
χ² / ndf 5.86e+07 / 91
p0 −3.665 ± 1.635e−05
−3.35
−3.4
−3.45
−3.5
−3.55
−3.6
−3.65
−3.7
−3.75
−3.8
pull
Entries 92
Mean 253
Std Dev 0
2000
1500
1000
500
0
−500
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

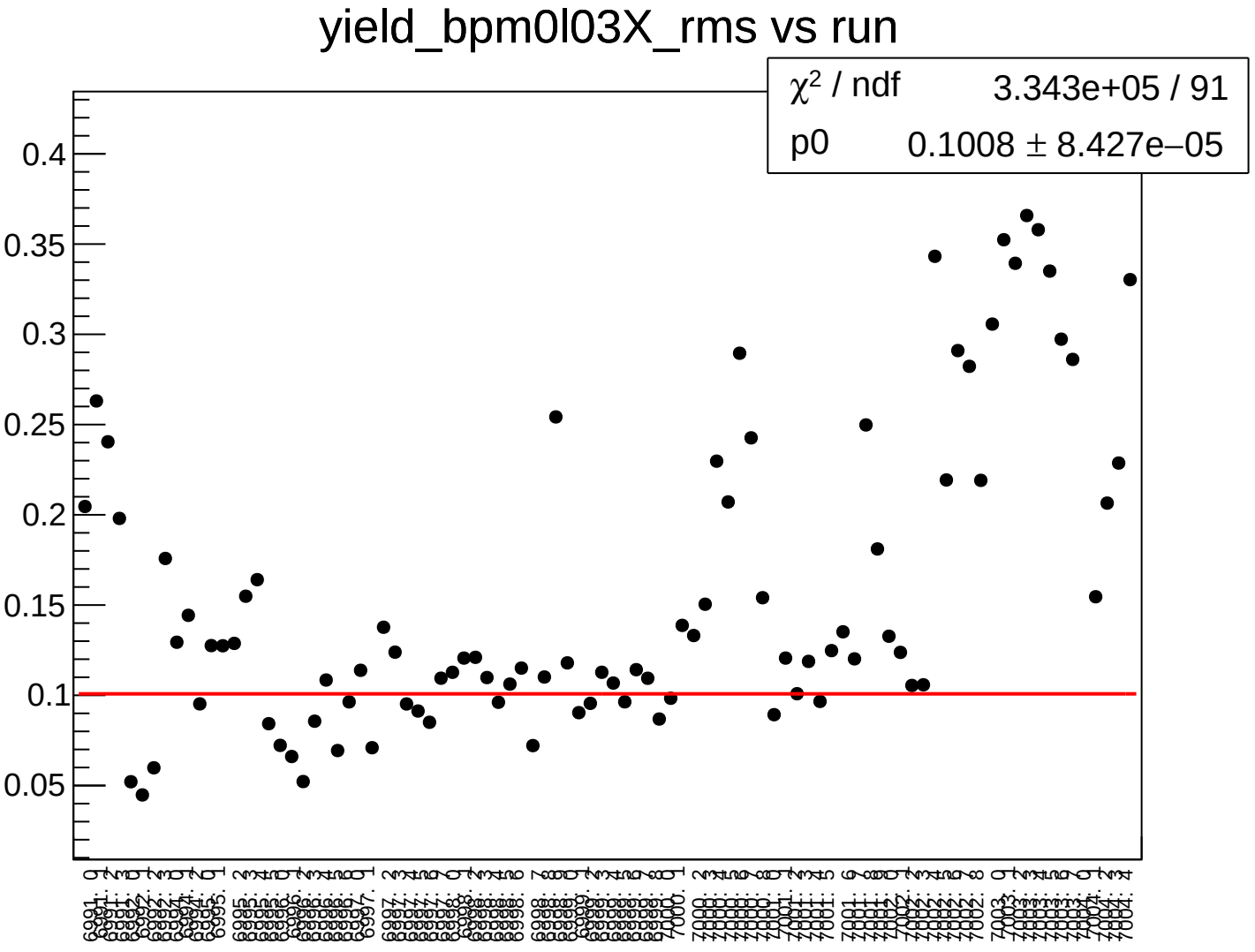

yield_bpm0l02X_rms vs run
χ² / ndf 4.168e+04 / 91
p0 0.01517 ± 1.156e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

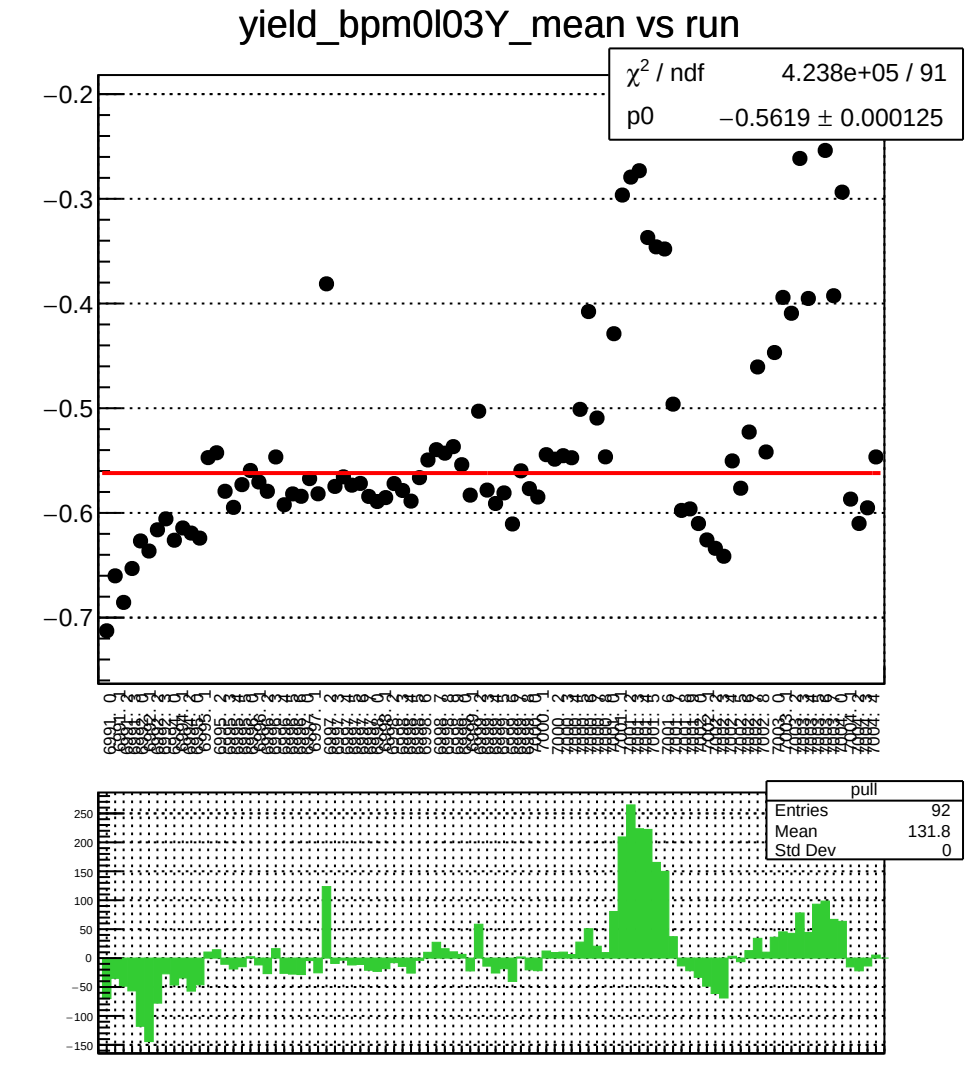

yield_bpm0l02Y_mean vs run
χ² / ndf 1.598e+07 / 91
p0 1.415 ± 6.608e−06
1.46
1.44
1.42
1.4
1.38
1.36
1.34
pull
Entries 92
Mean −12.09
Std Dev 0
500
0
−500
−1000
−1500

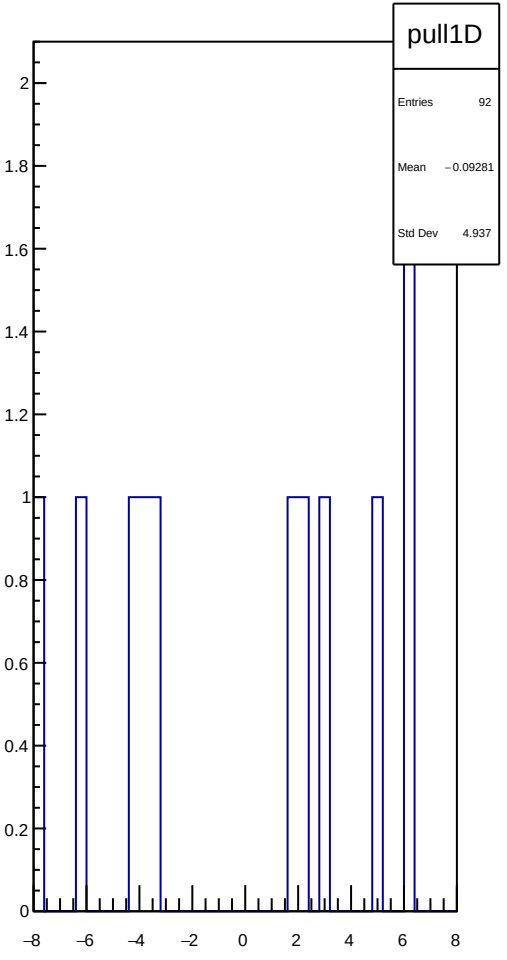

pull1D
Entries 92
Mean 2.138
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

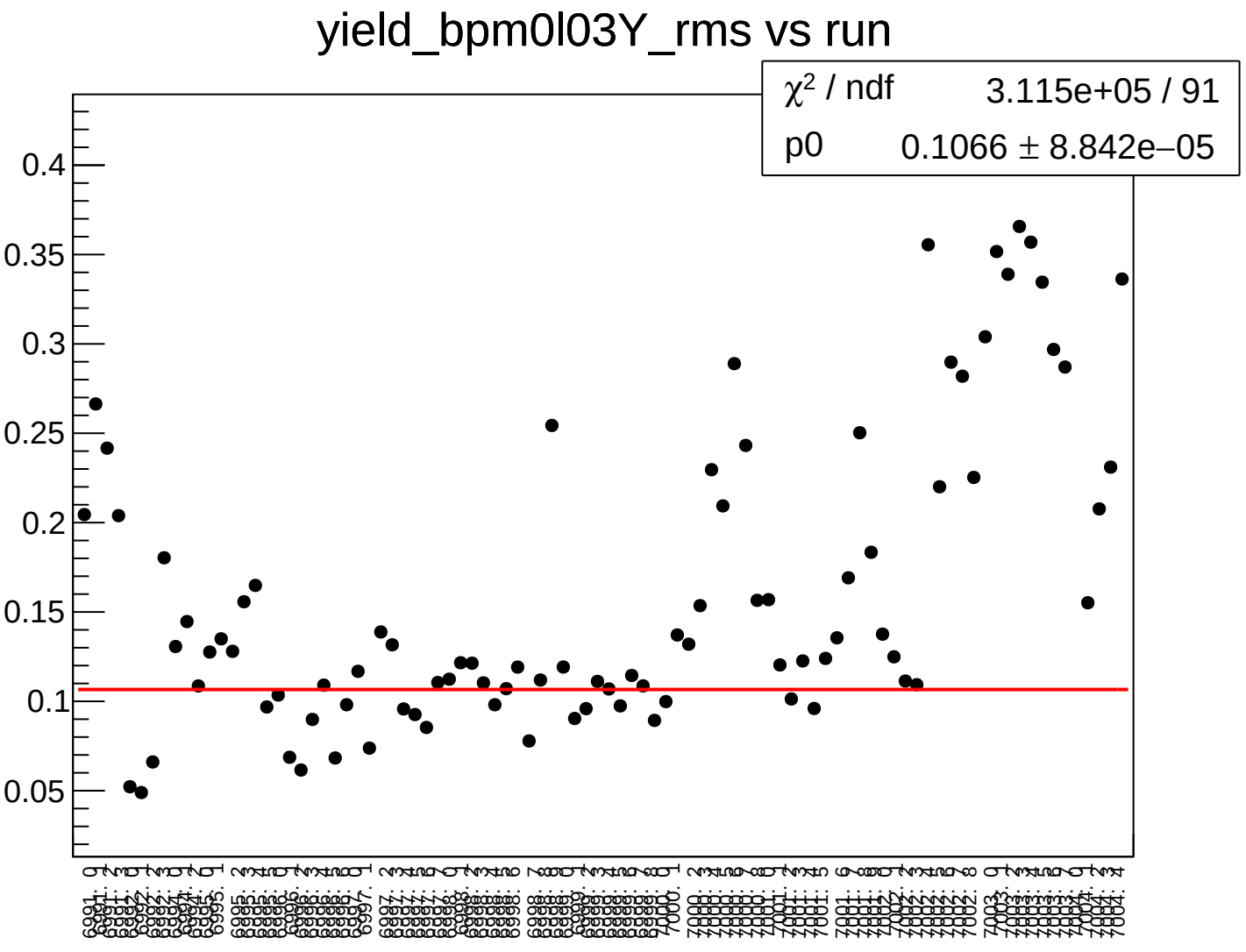

yield_bpm0l02Y_rms vs run
χ² / ndf 2.254e+05 / 91
p0 0.005798 ± 4.672e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

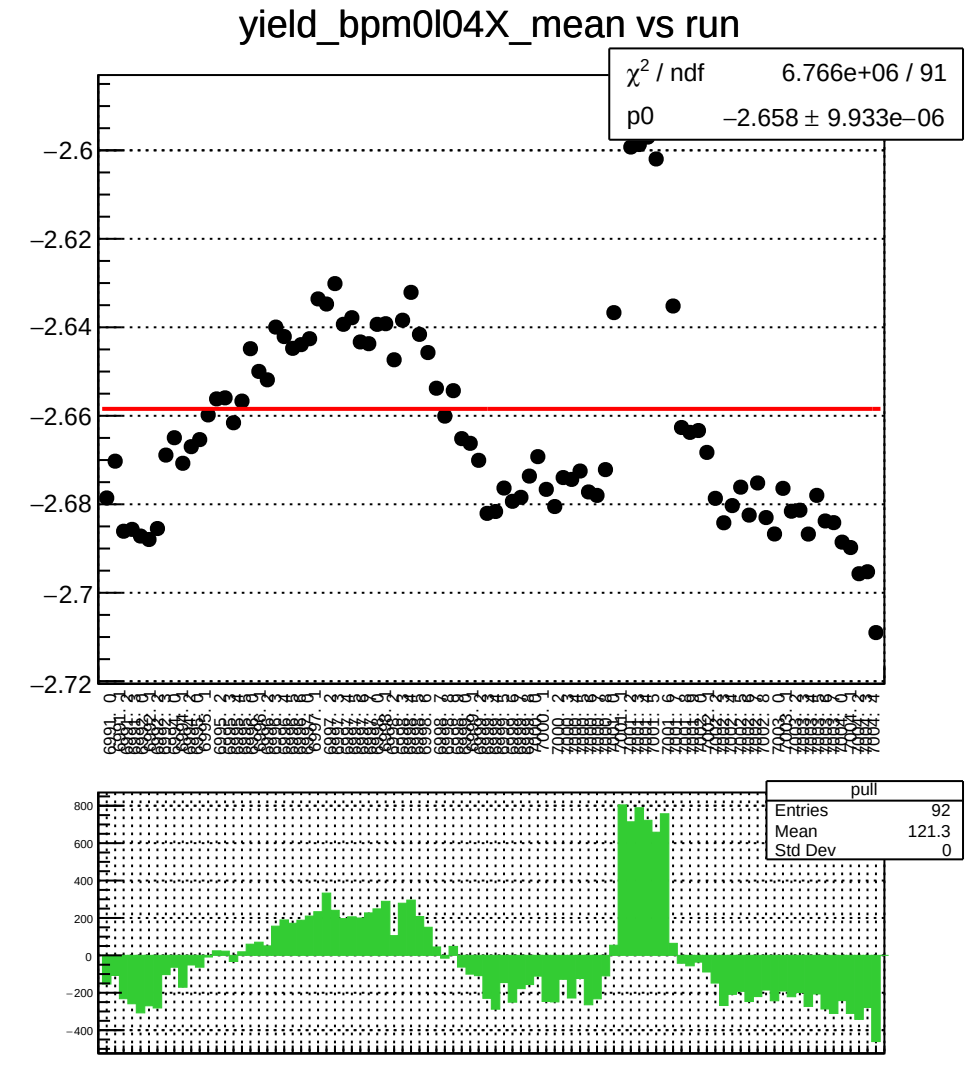

yield_bpm0l03X_mean vs run
χ² / ndf 1.743e+05 / 91
p0 −4.298 ± 0.0001192
−3.9
−4
−4.1
−4.2
−4.3
−4.4
pull
Entries 92
Mean 96.31
Std Dev 14.3
120
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 92
Mean 1.2
Std Dev 4.207
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

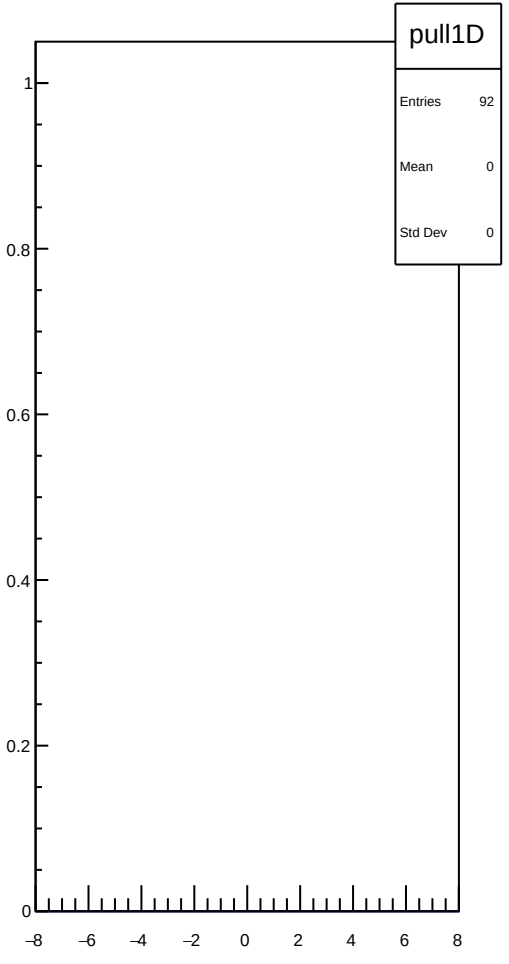

yield_bpm0l03X_rms vs run
χ² / ndf 3.343e+05 / 91
p0 0.1008 ± 8.427e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

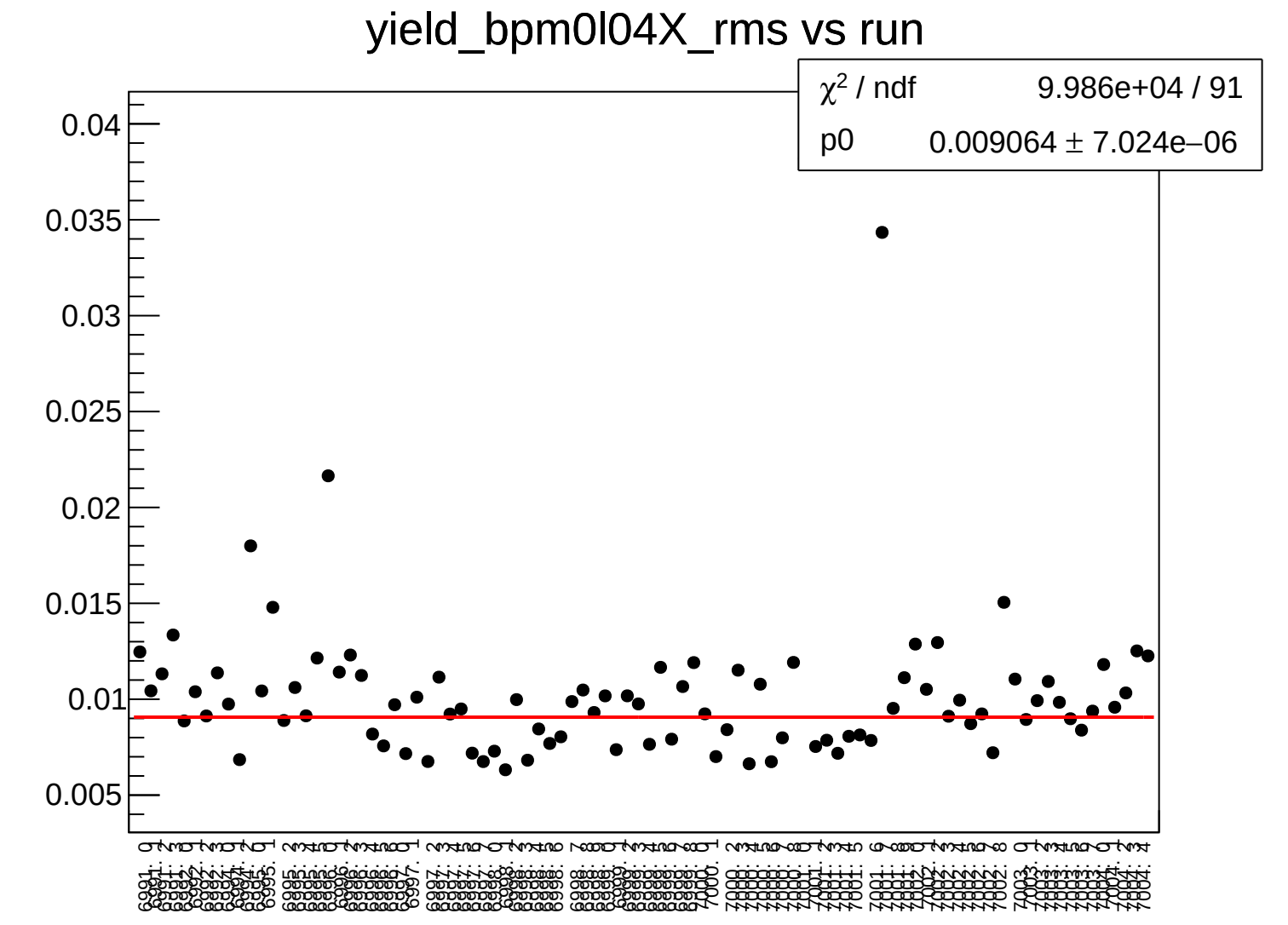

yield_bpm0l03Y_mean vs run
χ² / ndf 4.238e+05 / 91
p0 −0.5619 ± 0.000125
pull
Entries 92
Mean 131.8
Std Dev 0

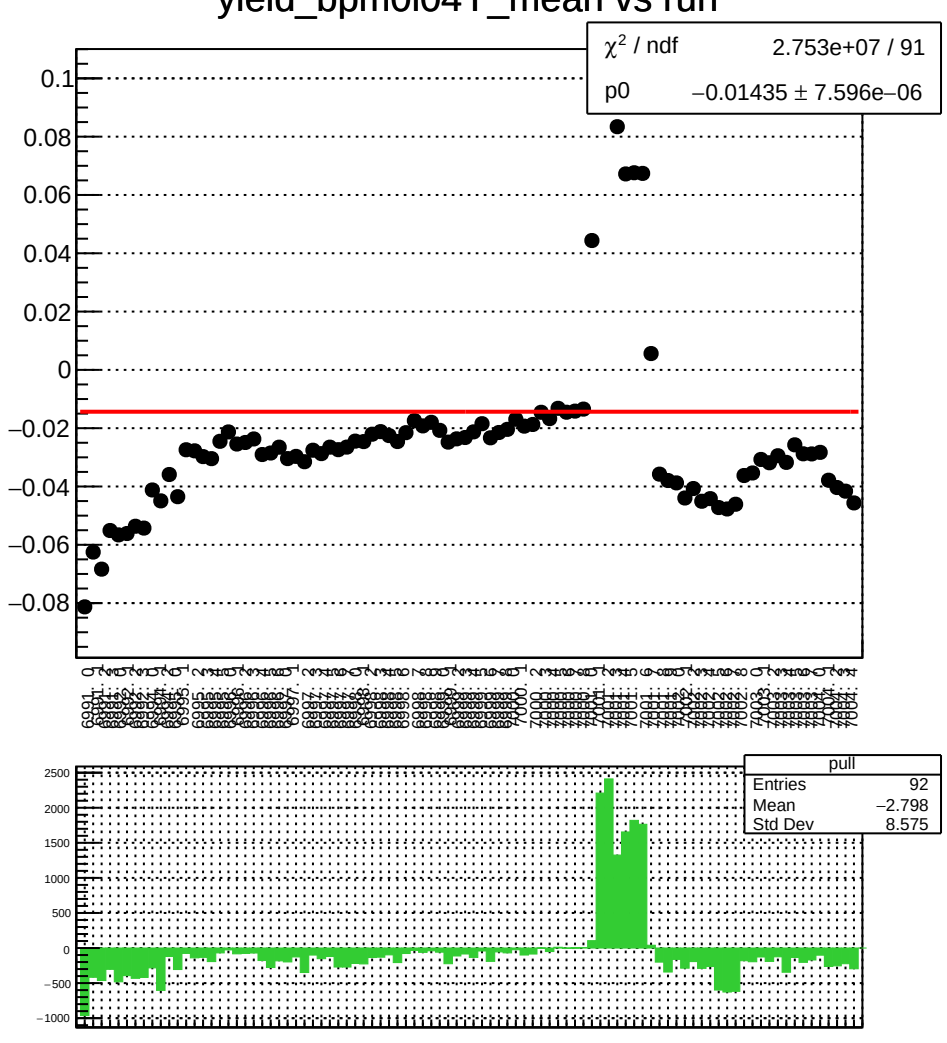

pull1D
Entries 92
Mean −0.09281
Std Dev 4.937

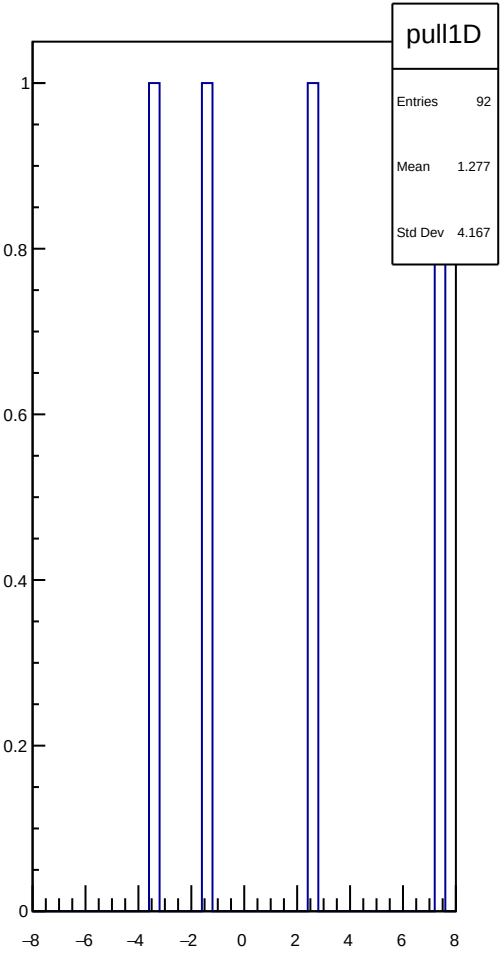

yield_bpm0l03Y_rms vs run
χ² / ndf 3.115e+05 / 91
p0 0.1066 ± 8.842e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

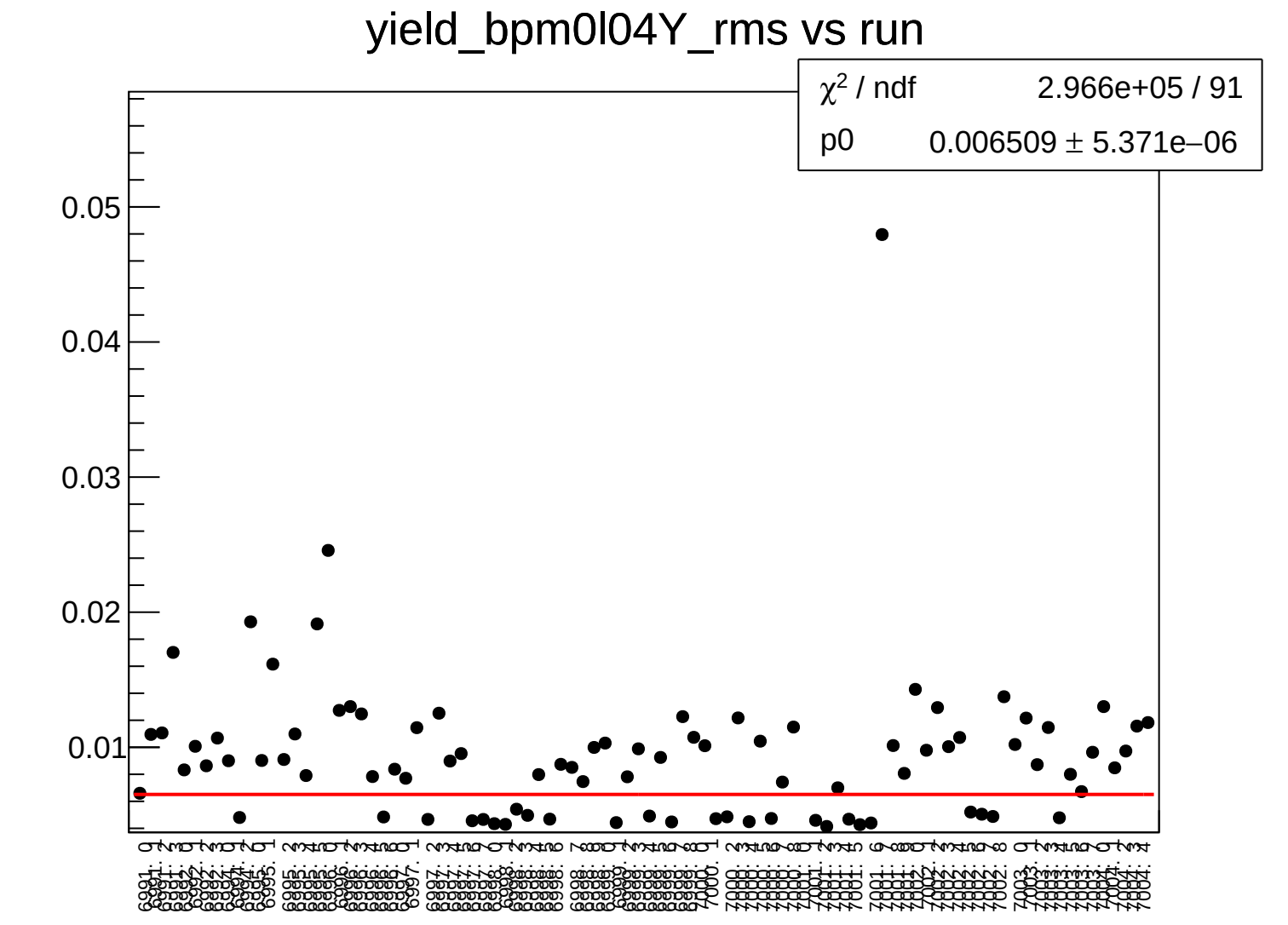

yield_bpm0l04X_mean vs run
χ² / ndf 6.766e+06 / 91
p0 −2.658 ± 9.933e−06
−2.6
−2.62
−2.64
−2.66
−2.68
−2.7
−2.72
pull
Entries 92
Mean 121.3
Std Dev 0
800
600
400
200
0
−200
−400

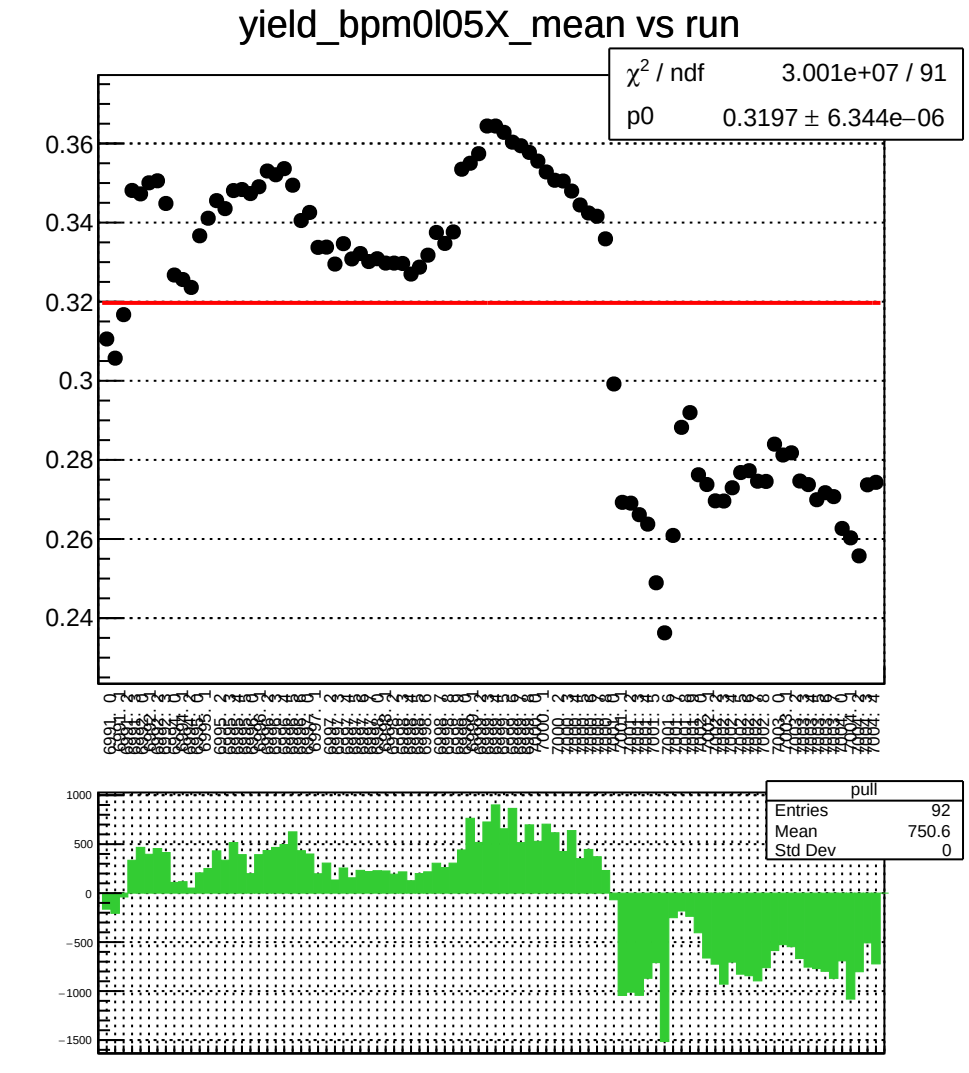

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

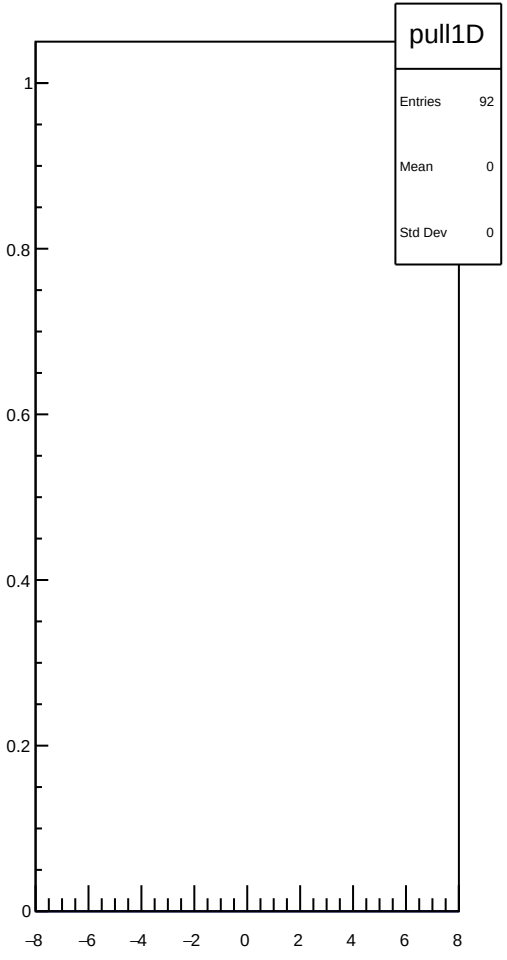

yield_bpm0l04X_rms vs run
χ² / ndf 9.986e+04 / 91
p0 0.009064 ± 7.024e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

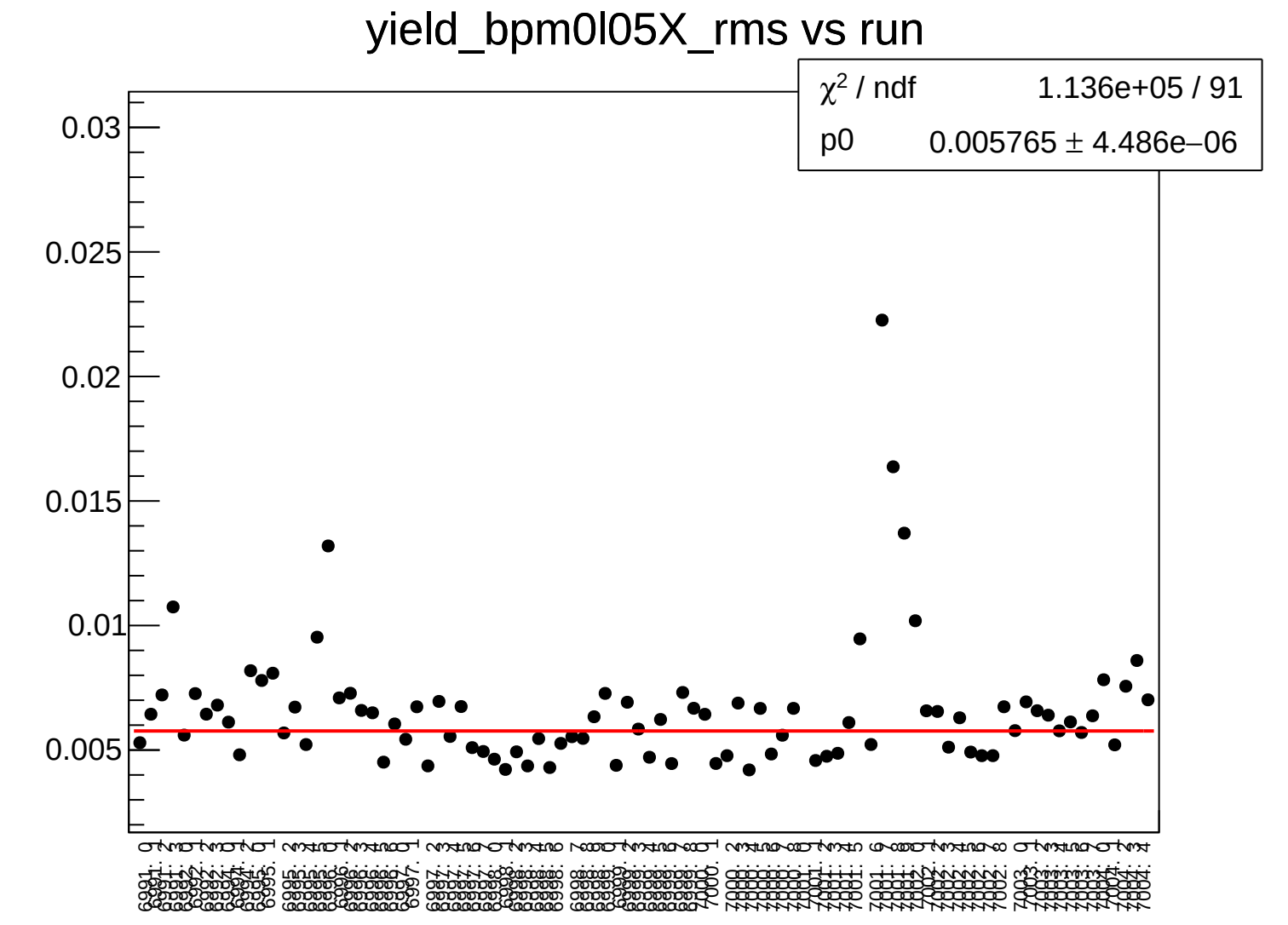

yield_bpm0l04Y_mean vs run
χ² / ndf 2.753e+07 / 91
p0 −0.01435 ± 7.596e−06
pull
Entries 92
Mean −2.798
Std Dev 8.575

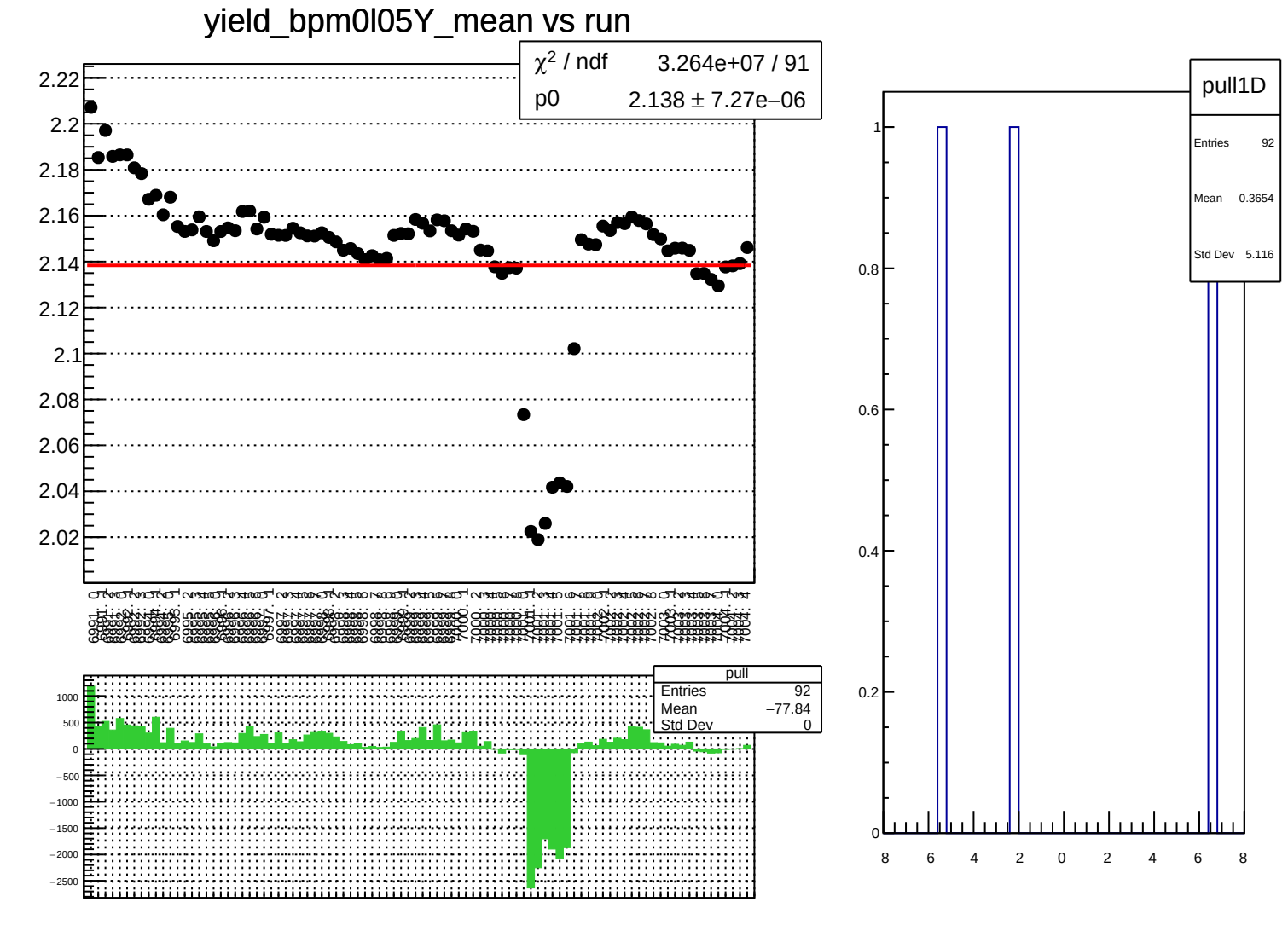

pull1D
Entries 92
Mean 1.277
Std Dev 4.167

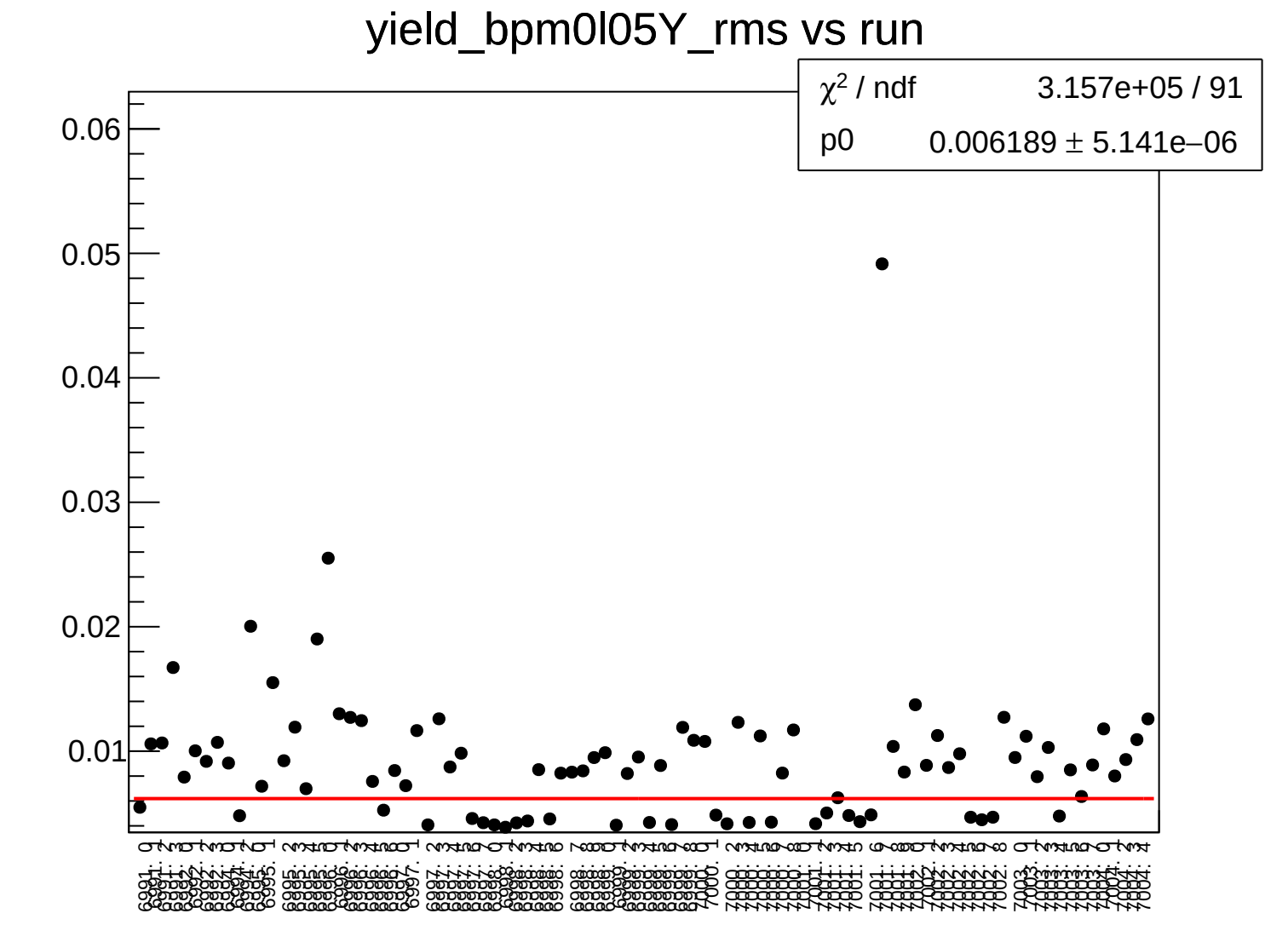

yield_bpm0l04Y_rms vs run
χ² / ndf 2.966e+05 / 91
p0 0.006509 ± 5.371e−06
0.05
0.04
0.03
0.02
0.01

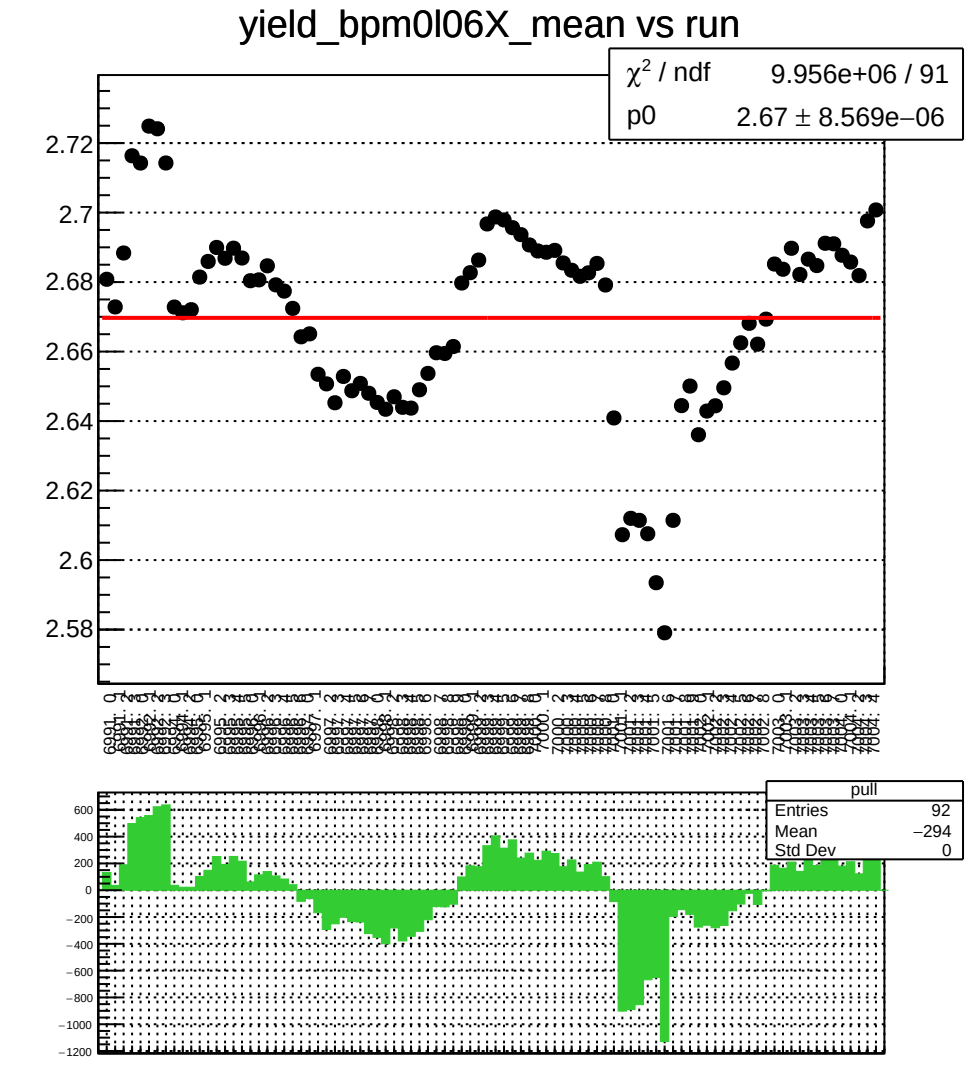

yield_bpm0l05X_mean vs run
χ² / ndf 3.001e+07 / 91
p0 0.3197 ± 6.344e−06
0.36
0.34
0.32
0.3
0.28
0.26
0.24
pull
Entries 92
Mean 750.6
Std Dev 0
1000
500
0
−500
−1000
−1500

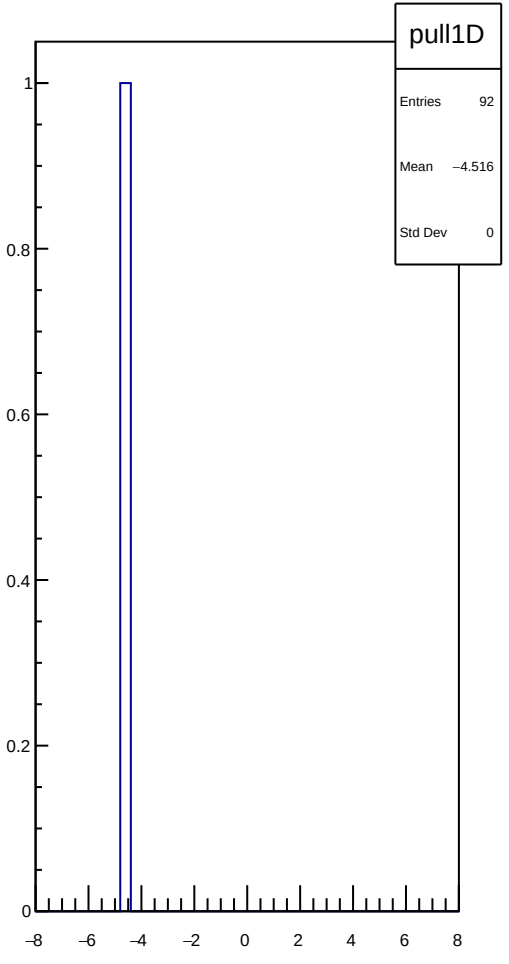

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

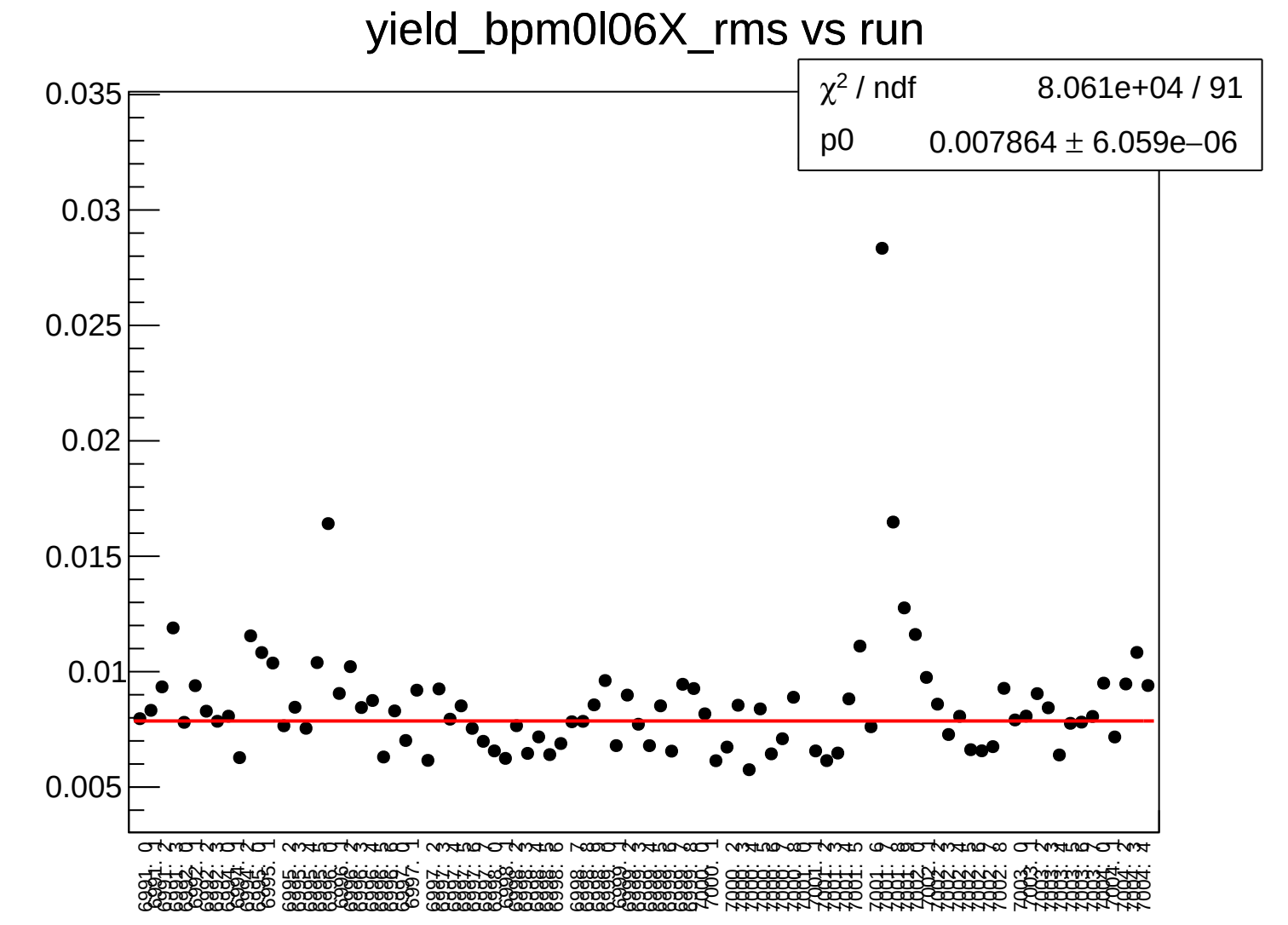

yield_bpm0l05X_rms vs run
χ² / ndf 1.136e+05 / 91
p0 0.005765 ± 4.486e−06
0.03
0.025
0.02
0.015
0.01
0.005

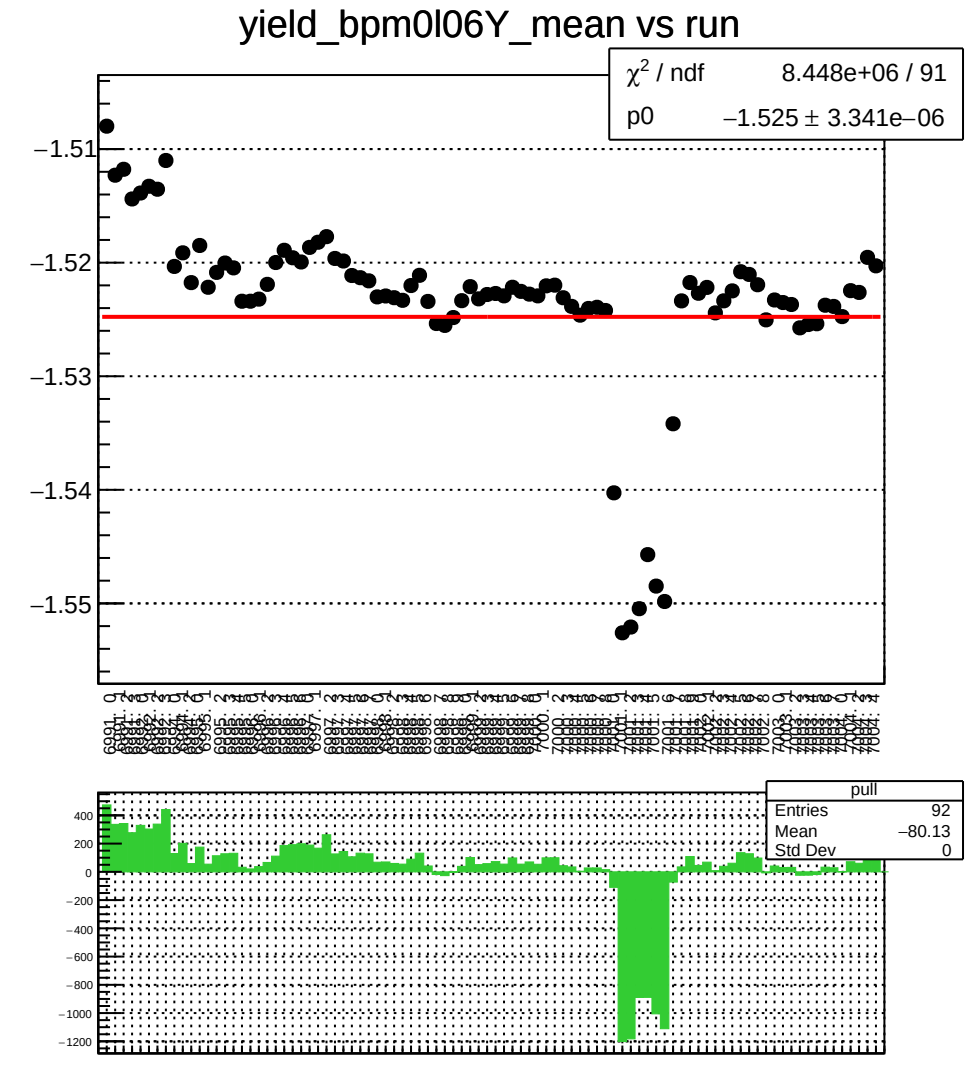

yield_bpm0l05Y_mean vs run
χ² / ndf 3.264e+07 / 91
p0 2.138 ± 7.27e−06
pull
Entries 92
Mean −77.84
Std Dev 0
pull1D
Entries 92
Mean −0.3654
Std Dev 5.116

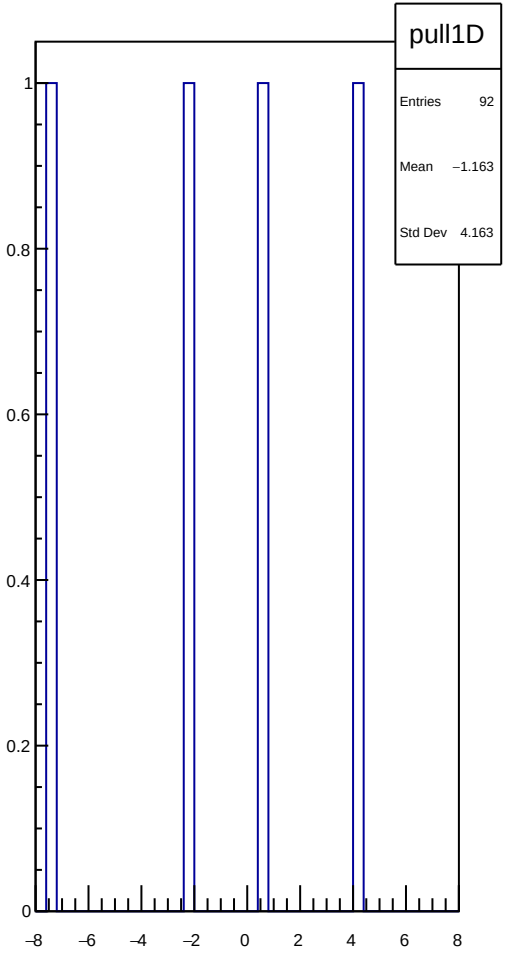

yield_bpm0l05Y_rms vs run
χ² / ndf 3.157e+05 / 91
p0 0.006189 ± 5.141e−06
0.06
0.05
0.04
0.03
0.02
0.01

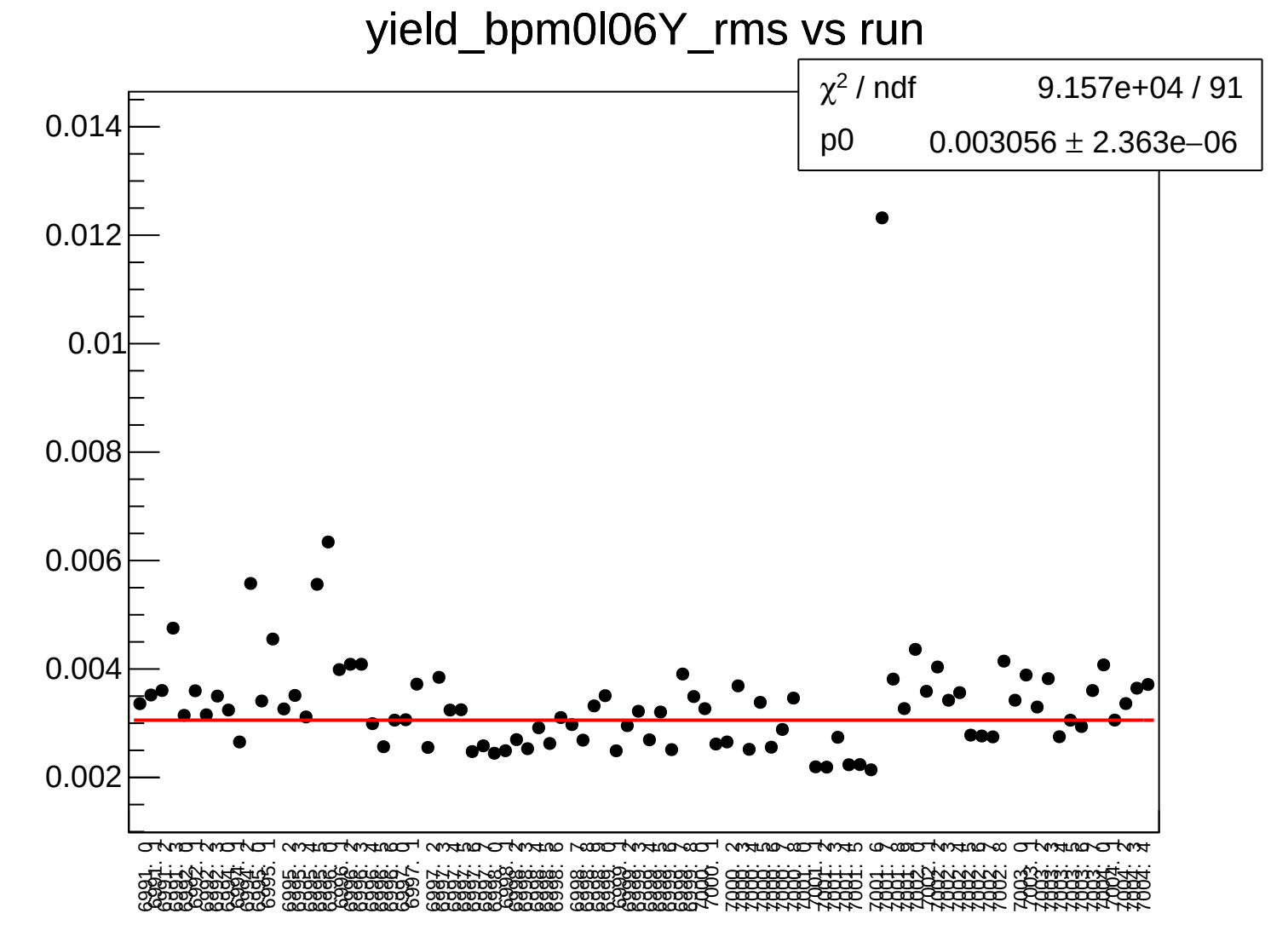

yield_bpm0l06X_mean vs run
χ² / ndf 9.956e+06 / 91
p0 2.67 ± 8.569e−06
2.72
2.7
2.68
2.66
2.64
2.62
2.6
2.58
pull
Entries 92
Mean −294
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

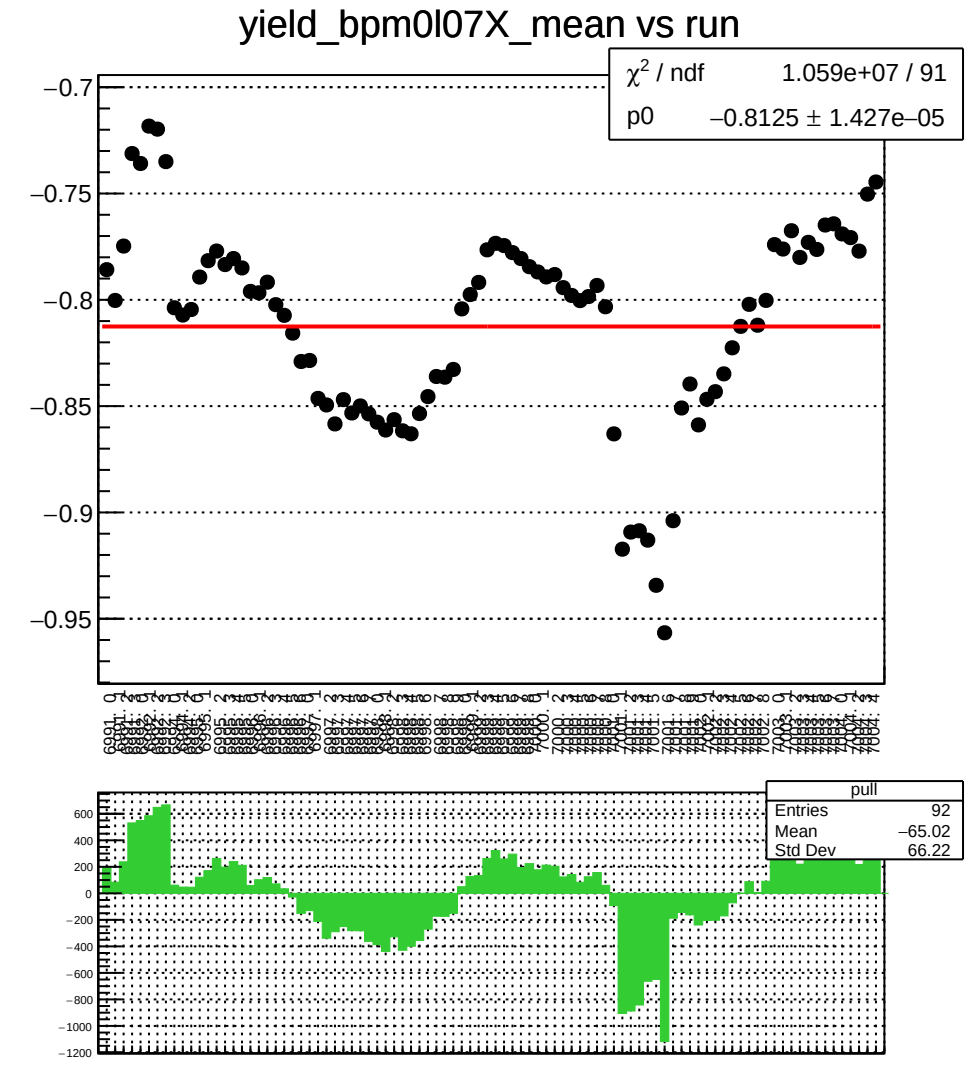

pull1D
Entries 92
Mean −4.516
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

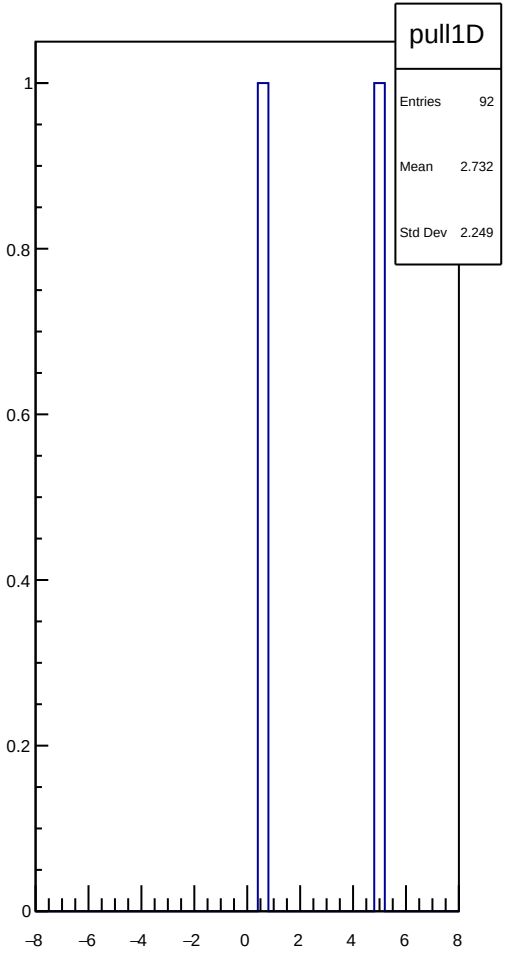

yield_bpm0l06X_rms vs run
χ² / ndf 8.061e+04 / 91
p0 0.007864 ± 6.059e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

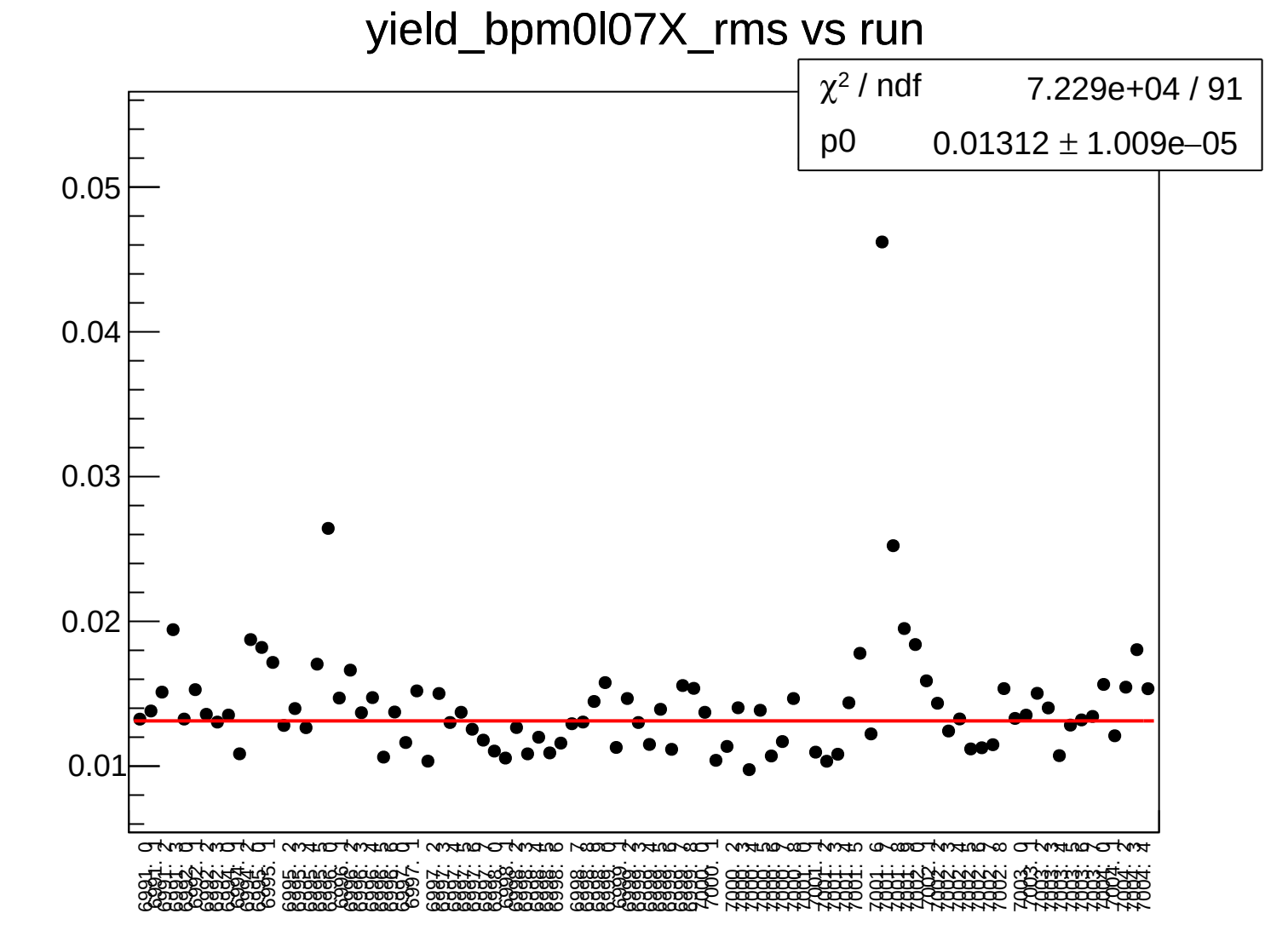

yield_bpm0l06Y_mean vs run
χ² / ndf 8.448e+06 / 91
p0 −1.525 ± 3.341e−06
−1.51
−1.52
−1.53
−1.54
−1.55
pull
Entries 92
Mean −80.13
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200

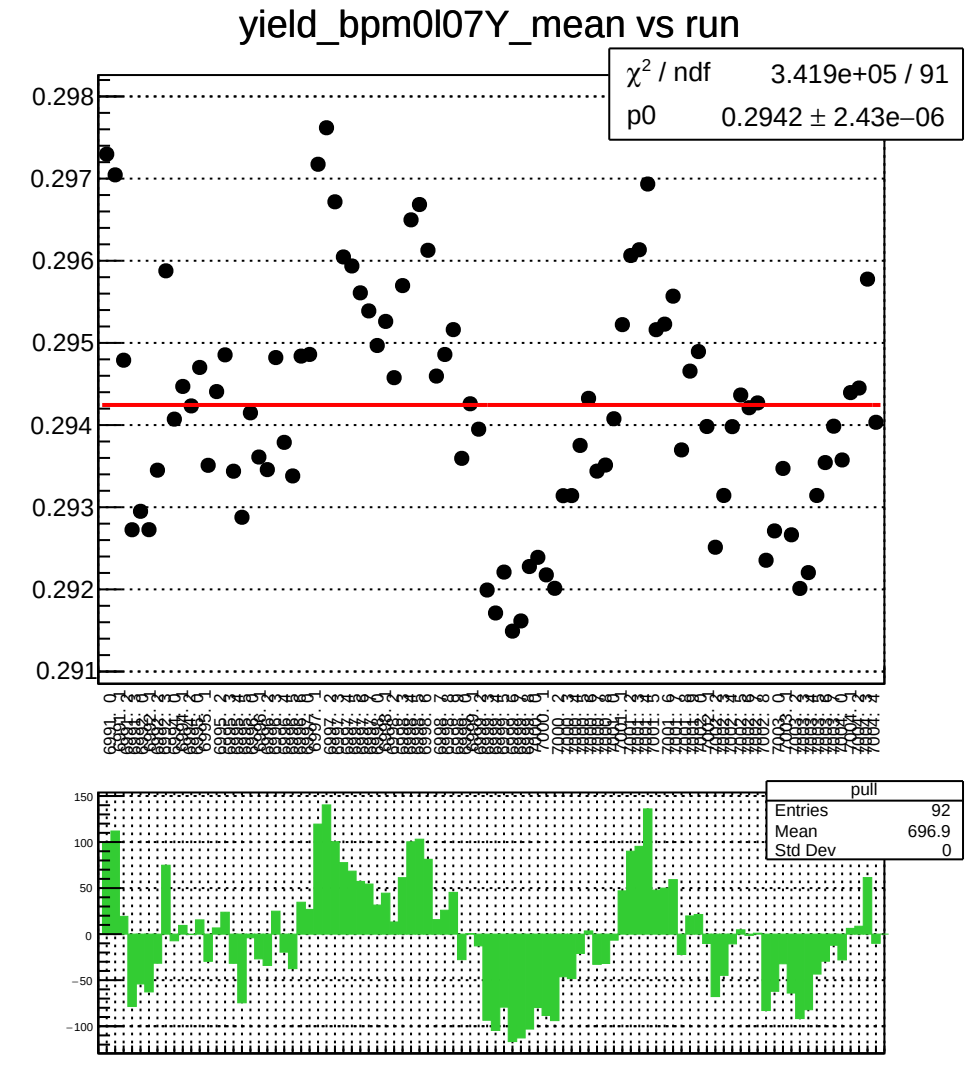

pull1D
Entries 92
Mean −1.163
Std Dev 4.163
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

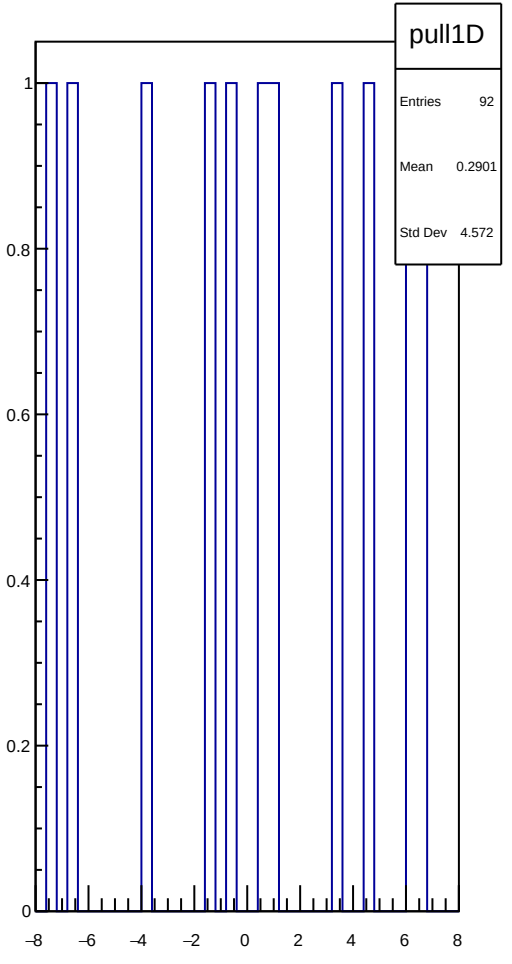

yield_bpm0l06Y_rms vs run
χ² / ndf 9.157e+04 / 91
p0 0.003056 ± 2.363e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

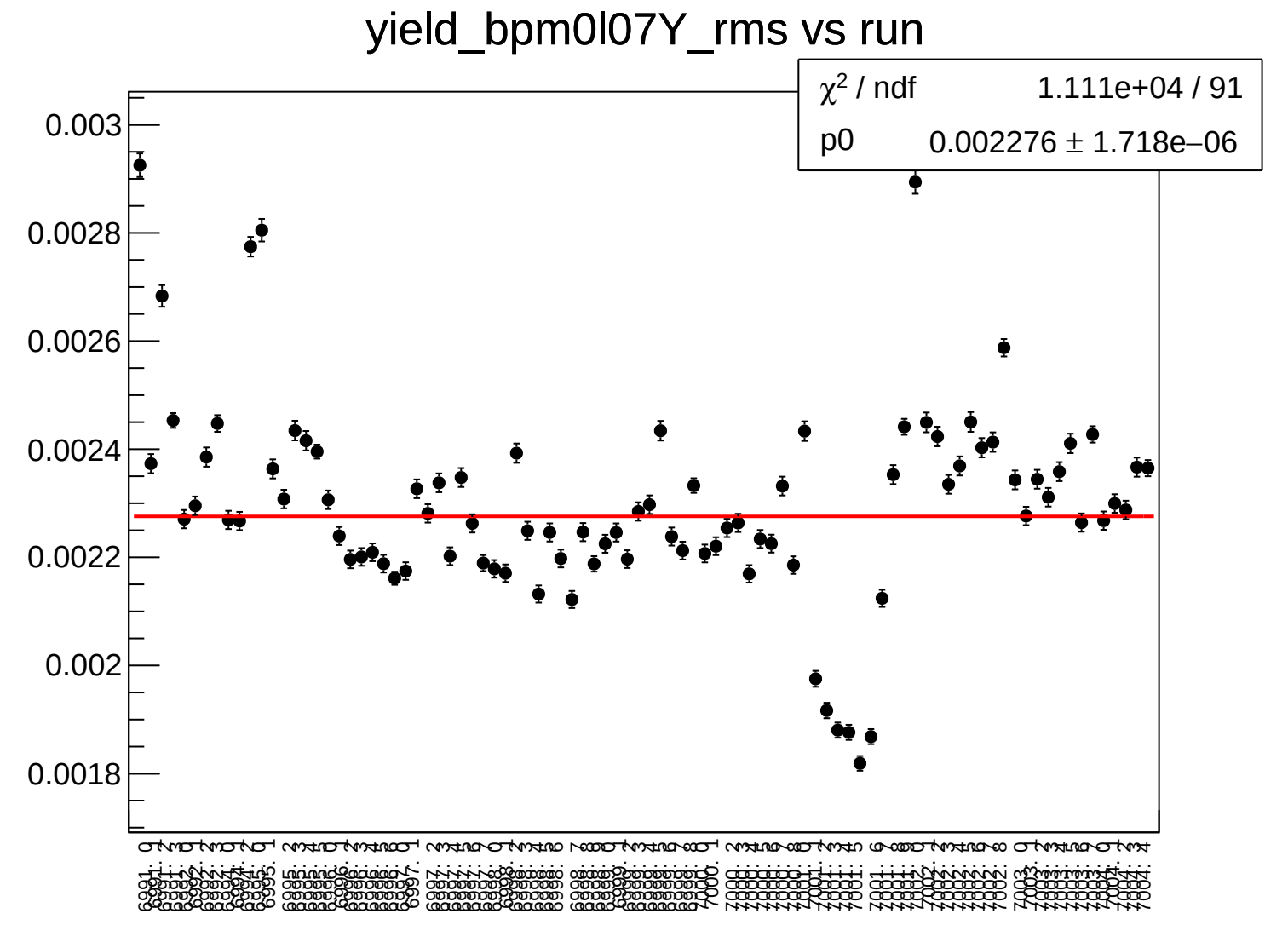

yield_bpm0l07X_mean vs run
χ² / ndf 1.059e+07 / 91
p0 −0.8125 ± 1.427e−05
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 92
Mean −65.02
Std Dev 66.22
600
400
200
0
−200
−400
−600
−800
−1000
−1200

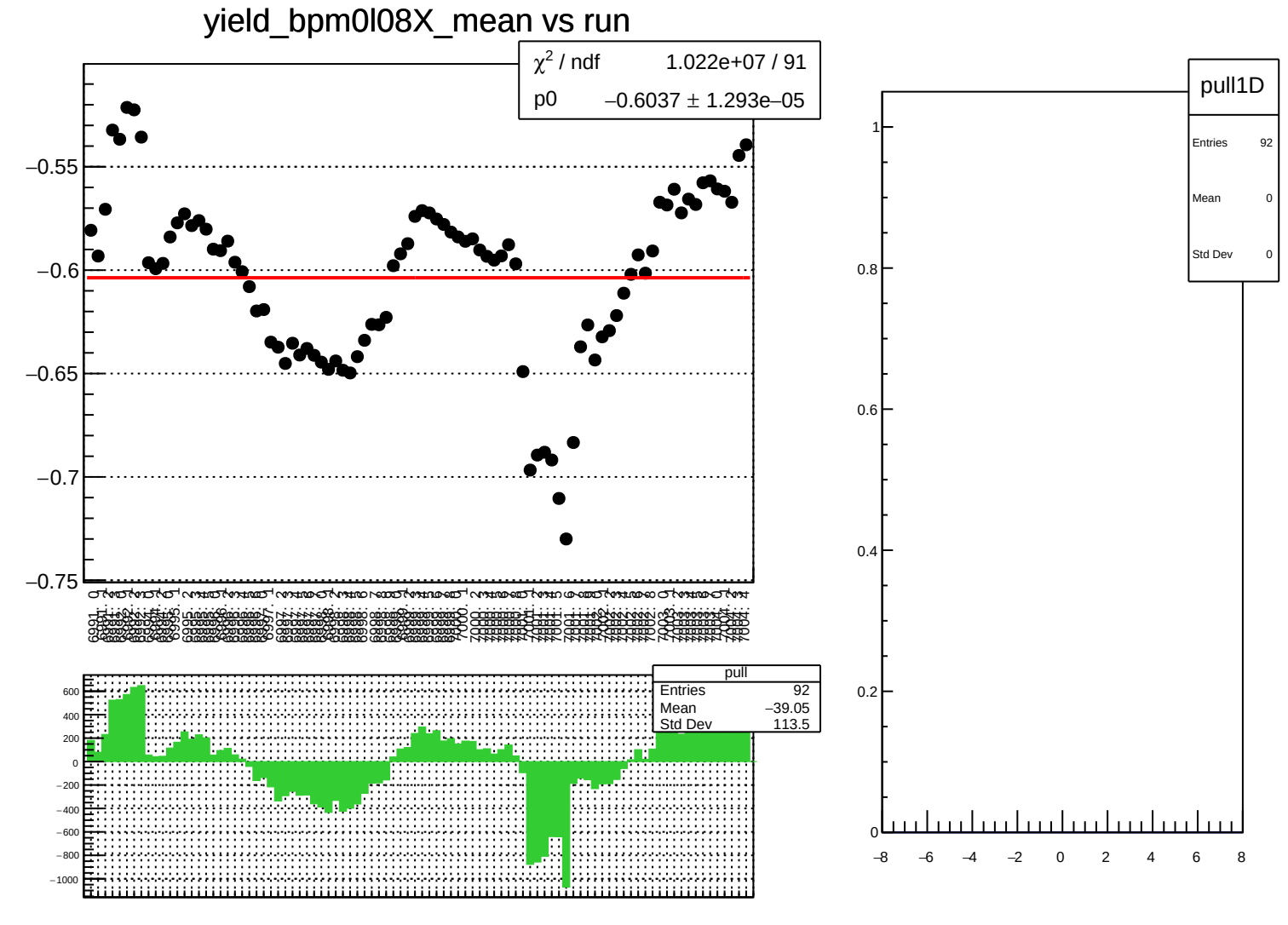

pull1D
Entries 92
Mean 2.732
Std Dev 2.249
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

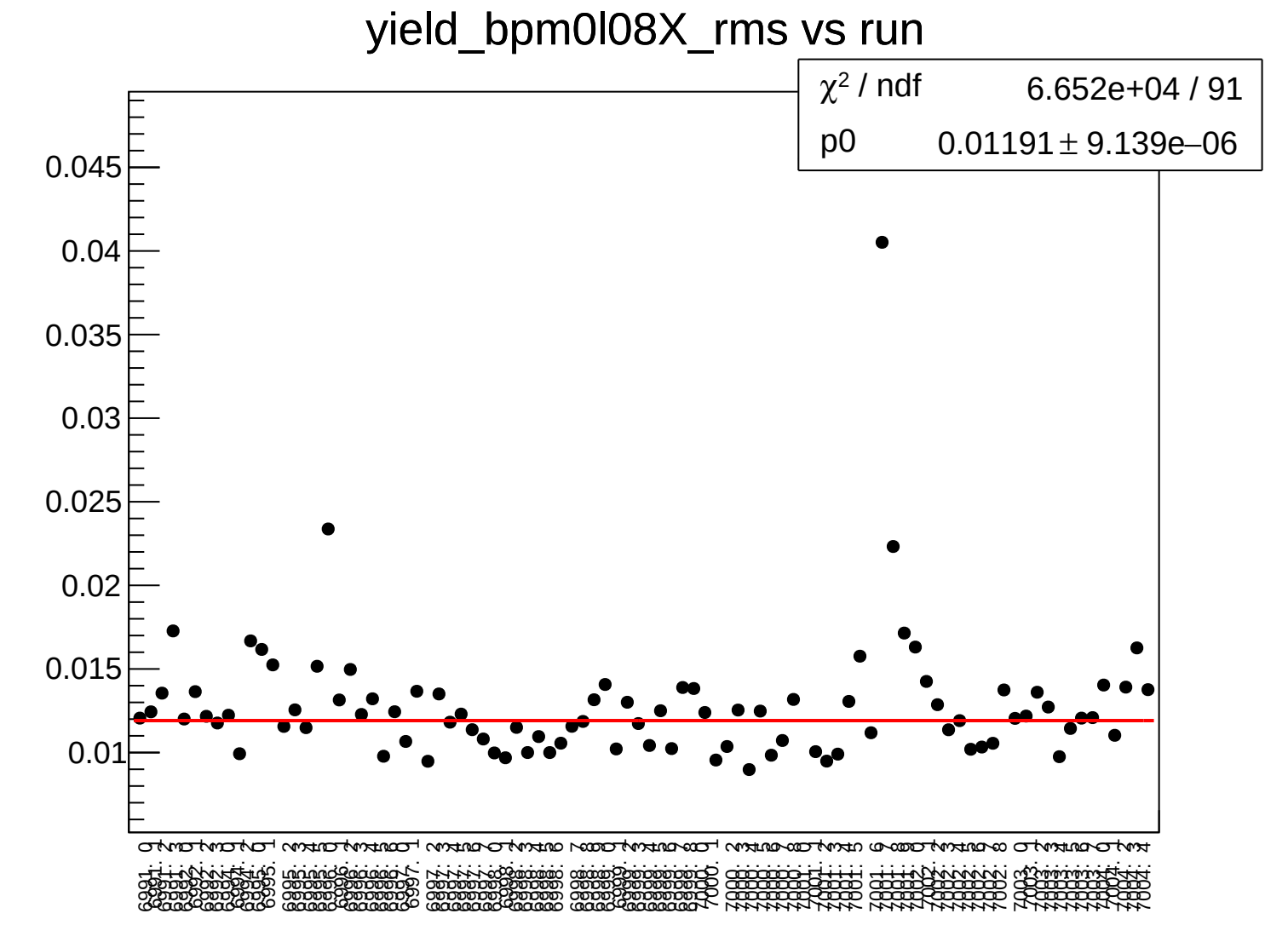

yield_bpm0l07X_rms vs run
χ² / ndf 7.229e+04 / 91
p0 0.01312 ± 1.009e−05
0.05
0.04
0.03
0.02
0.01

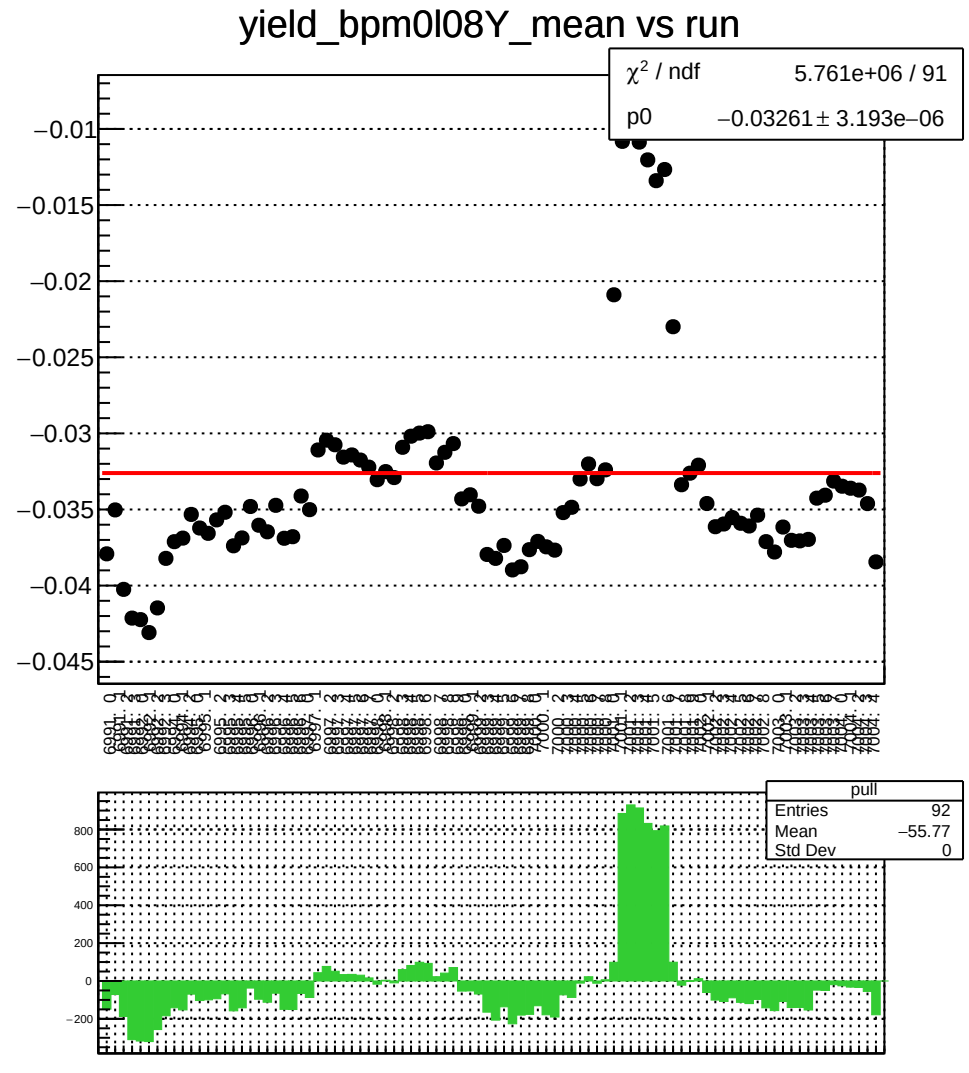

yield_bpm0l07Y_mean vs run
χ² / ndf 3.419e+05 / 91
p0 0.2942 ± 2.43e−06
0.298
0.297
0.296
0.295
0.294
0.293
0.292
0.291
pull
Entries 92
Mean 696.9
Std Dev 0
150
100
50
0
−50
−100

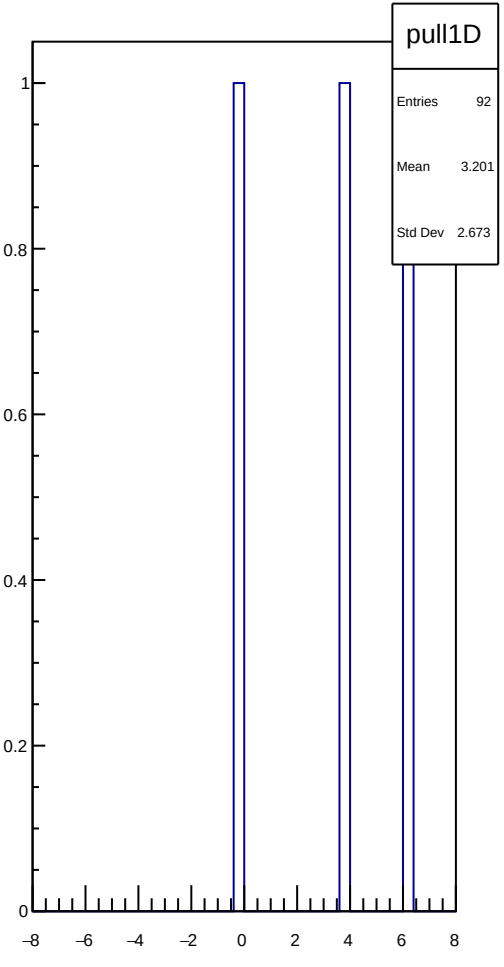

pull1D
Entries 92
Mean 0.2901
Std Dev 4.572
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

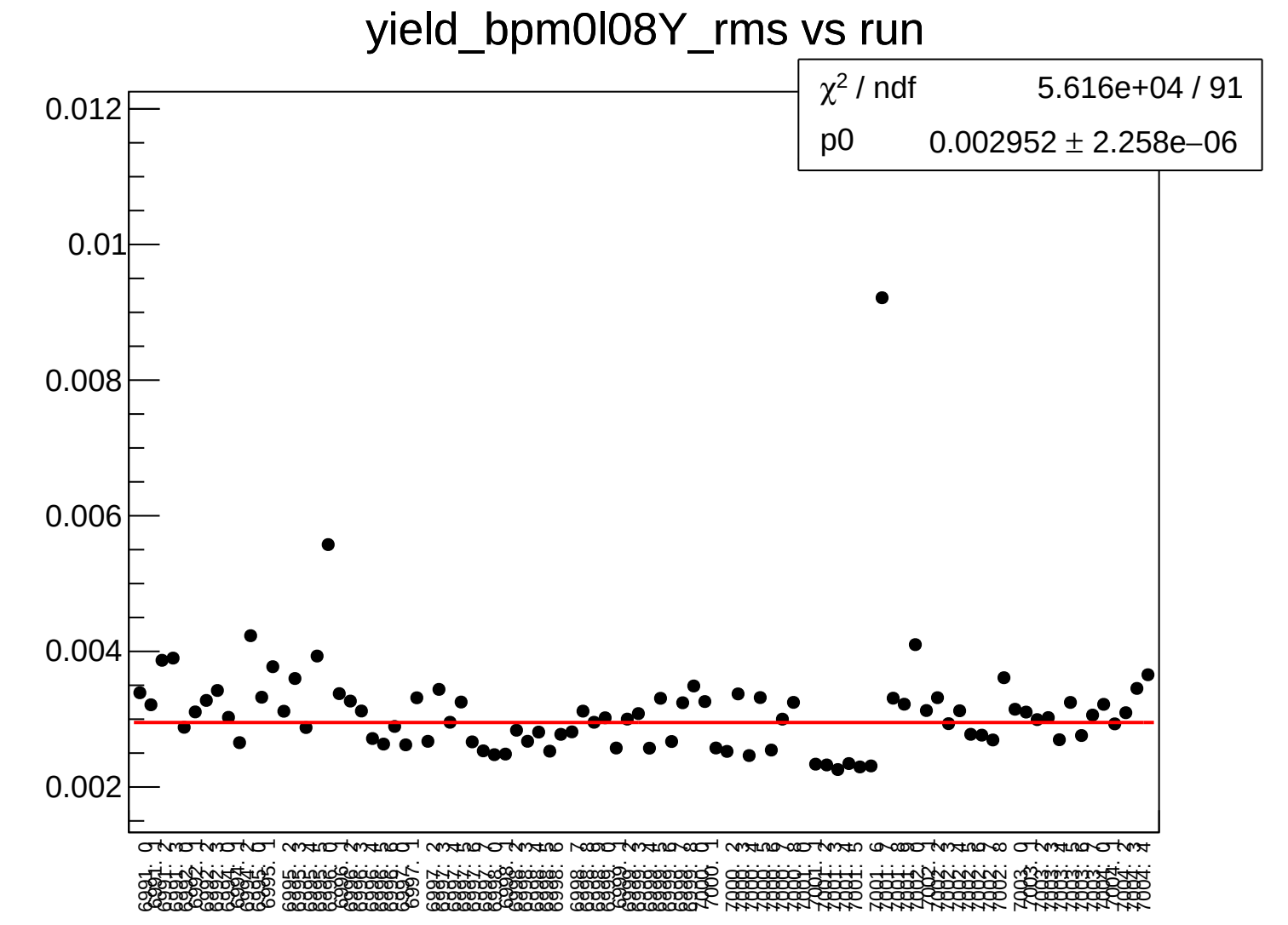

yield_bpm0l07Y_rms vs run
χ² / ndf 1.111e+04 / 91
p0 0.002276 ± 1.718e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

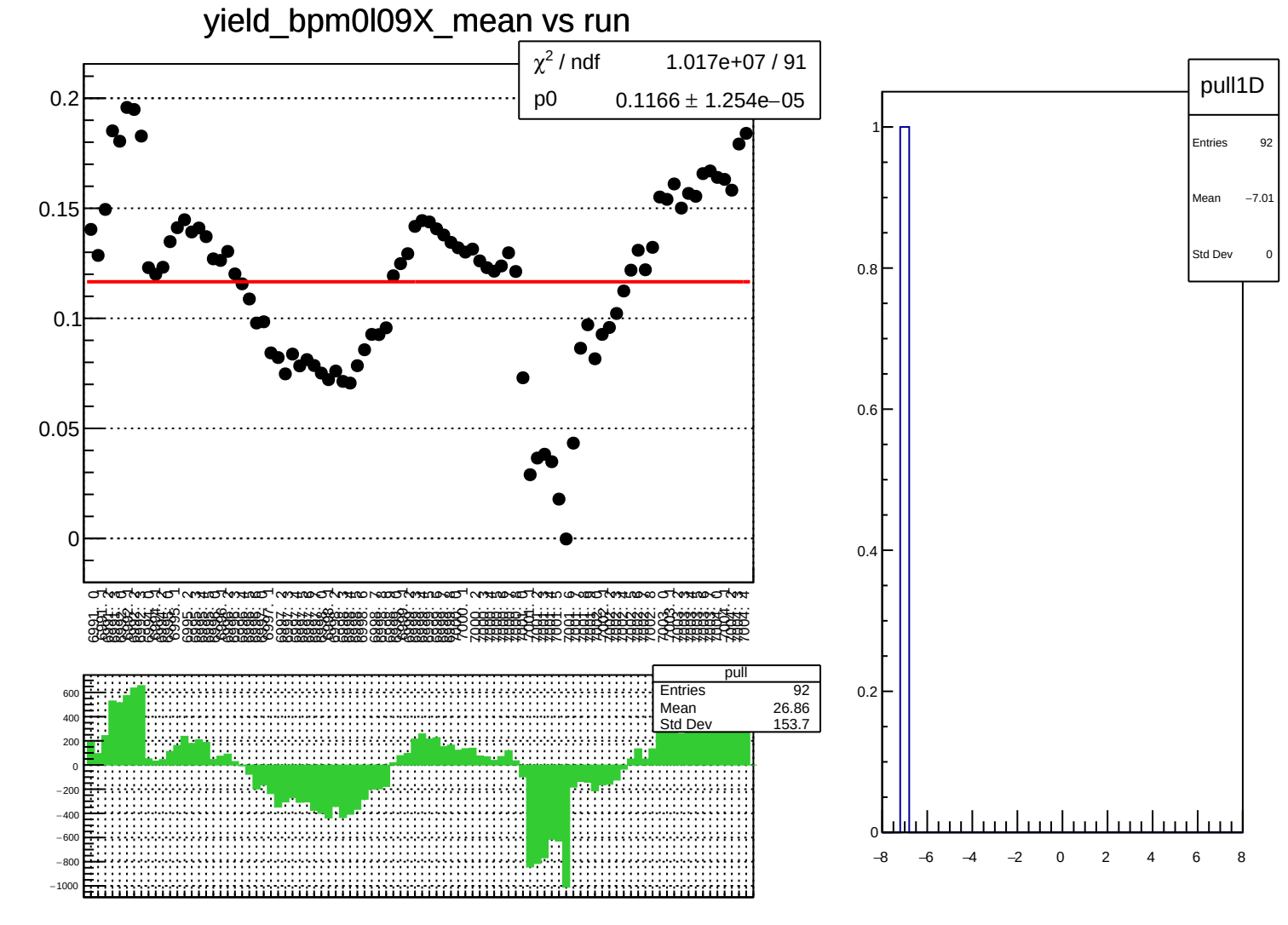

yield_bpm0l08X_mean vs run
χ² / ndf 1.022e+07 / 91
p0 −0.6037 ± 1.293e−05
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 92
Mean −39.05
Std Dev 113.5
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

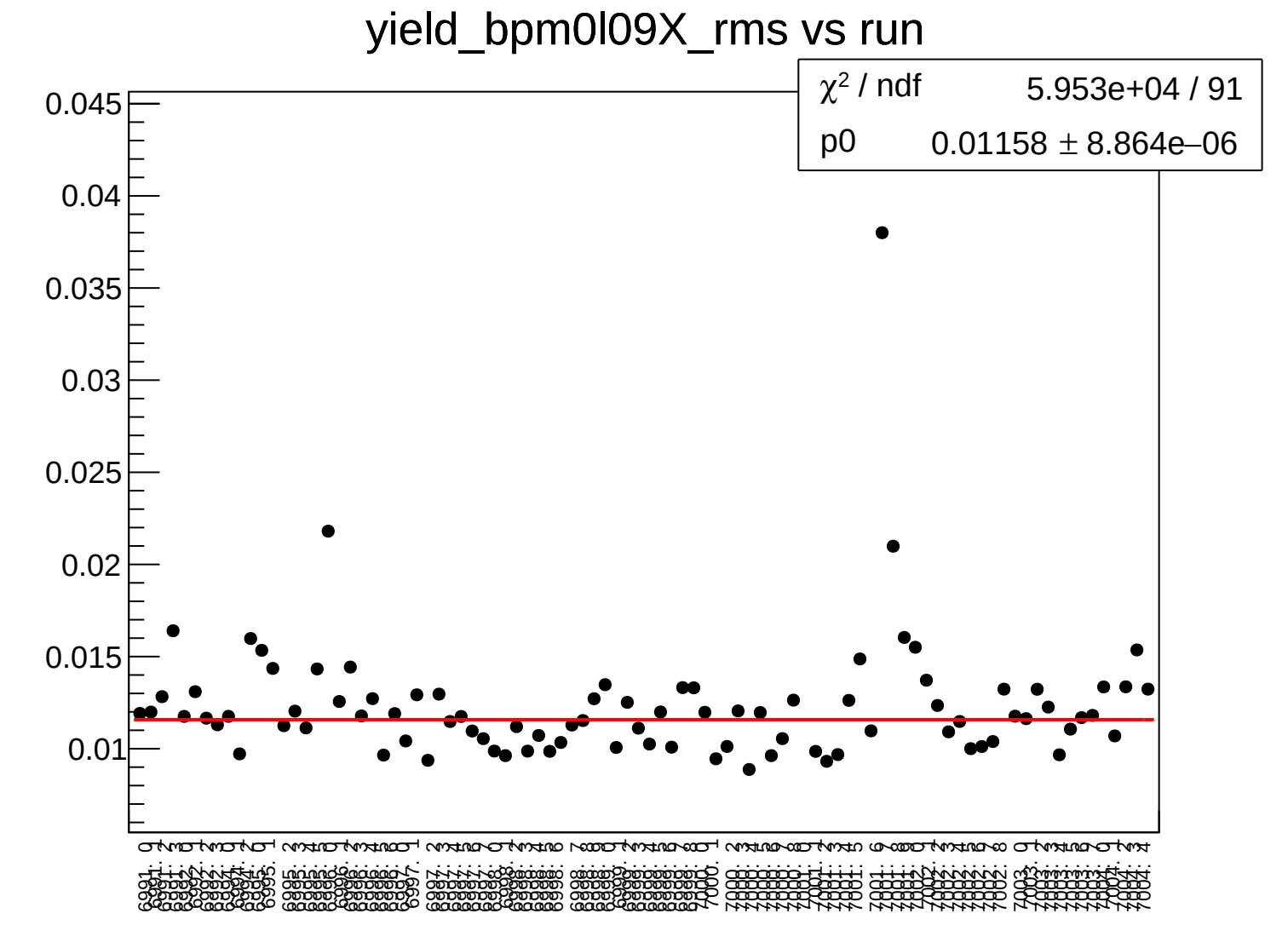

yield_bpm0l08X_rms vs run
χ² / ndf 6.652e+04 / 91
p0 0.01191 ± 9.139e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

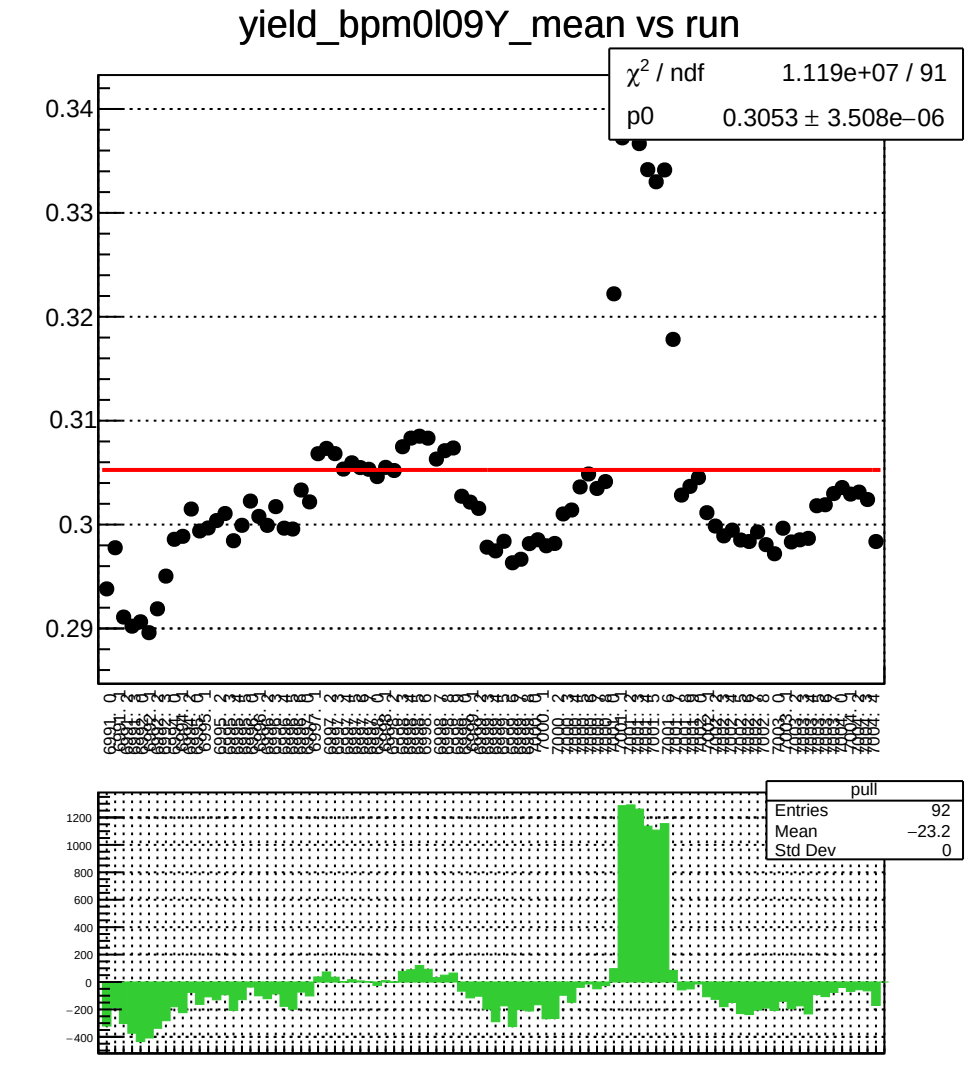

yield_bpm0l08Y_mean vs run
χ² / ndf 5.761e+06 / 91
p0 −0.03261 ± 3.193e−06
−0.01
−0.015
−0.02
−0.025
−0.03
−0.035
−0.04
−0.045
pull
Entries 92
Mean −55.77
Std Dev 0
800
600
400
200
0
−200

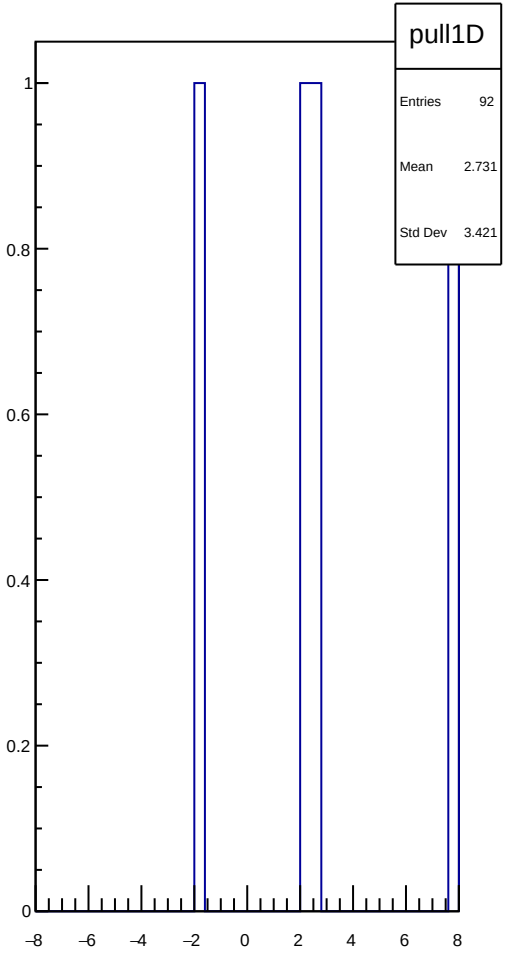

pull1D
Entries 92
Mean 3.201
Std Dev 2.673
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

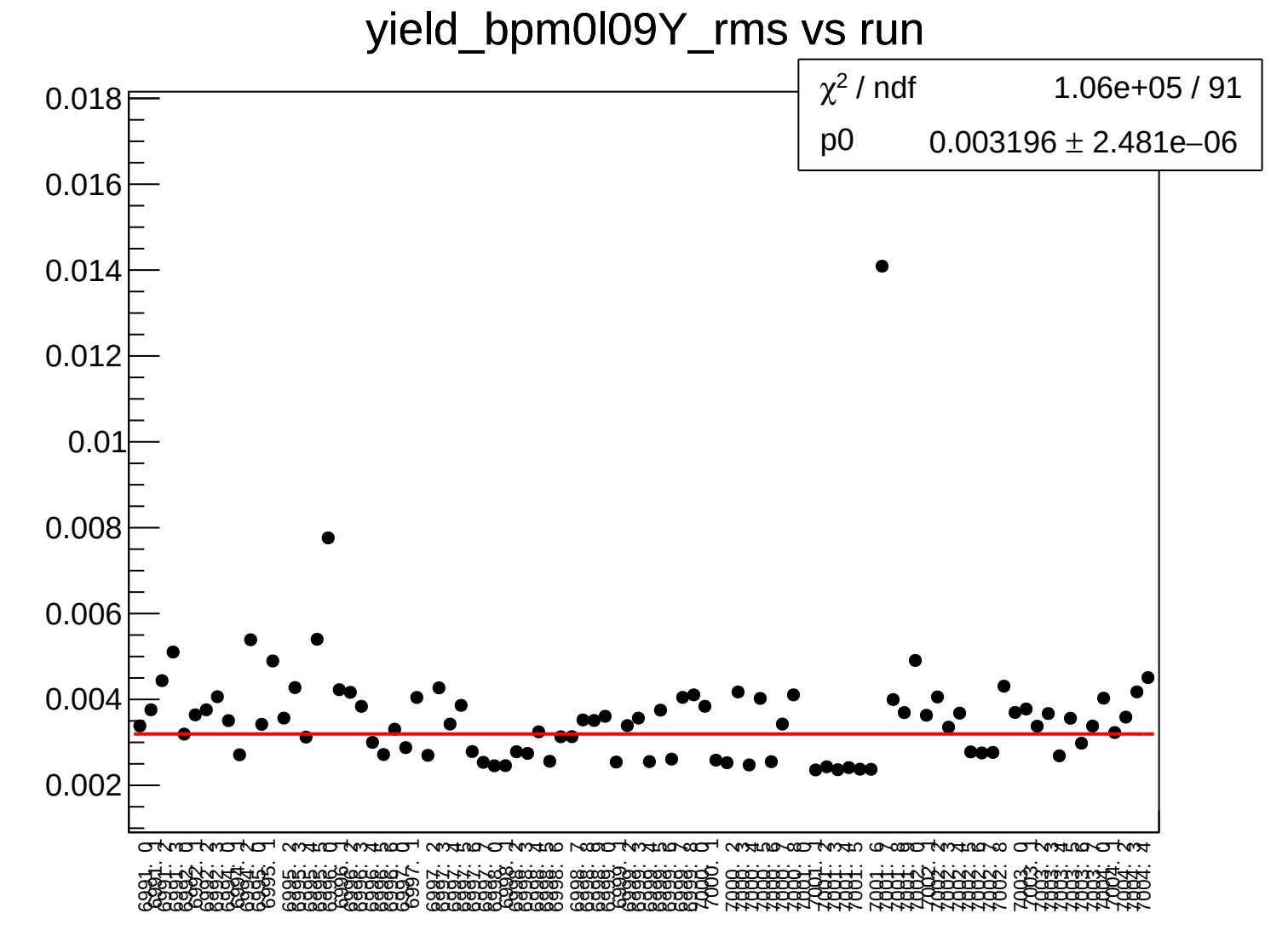

yield_bpm0l08Y_rms vs run
χ² / ndf 5.616e+04 / 91
p0 0.002952 ± 2.258e−06
0.012
0.01
0.008
0.006
0.004
0.002

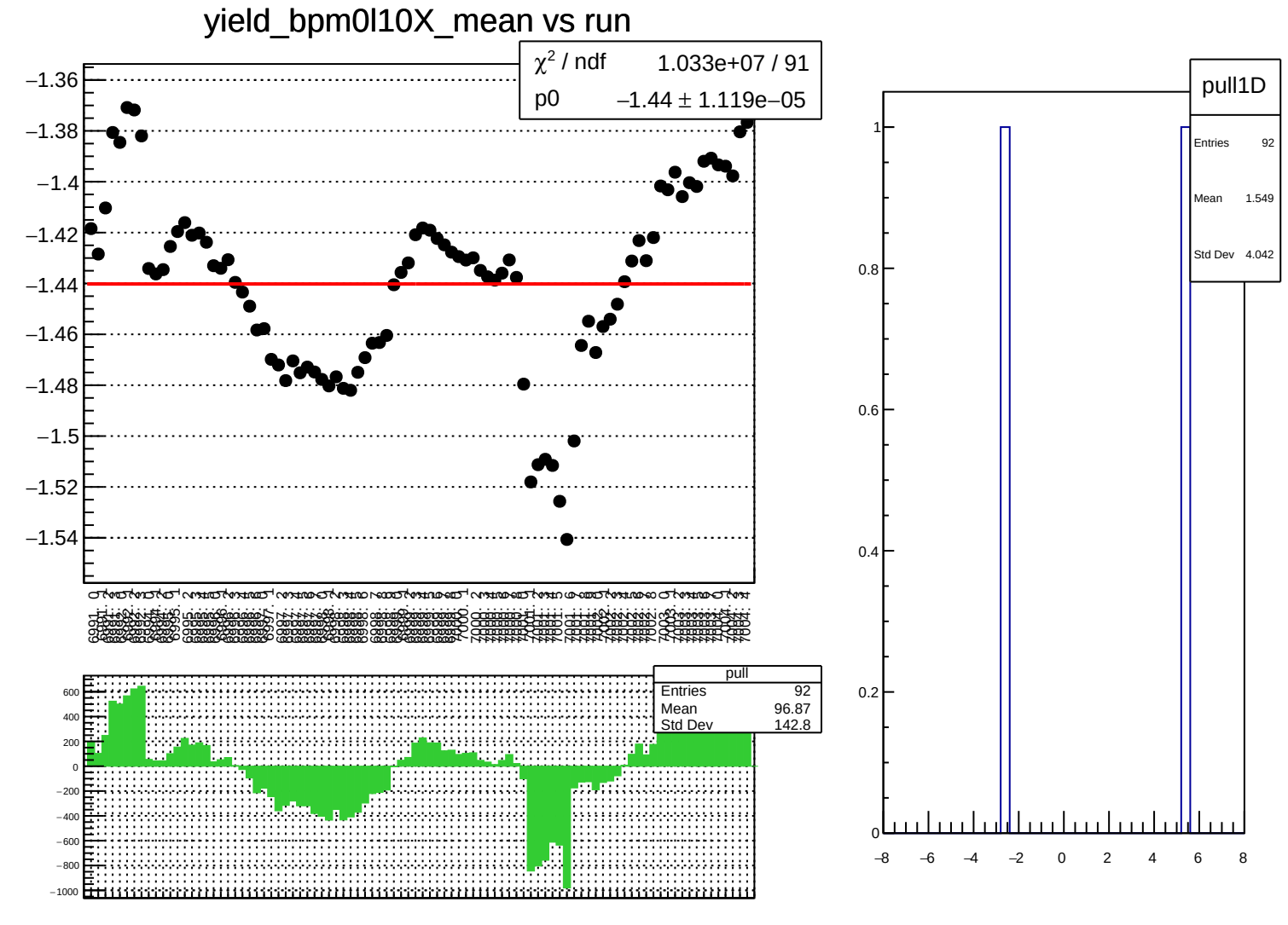

yield_bpm0l09X_mean vs run
χ² / ndf 1.017e+07 / 91
p0 0.1166 ± 1.254e−05
0.2
0.15
0.1
0.05
0
pull
Entries 92
Mean 26.86
Std Dev 153.7
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 92
Mean −7.01
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

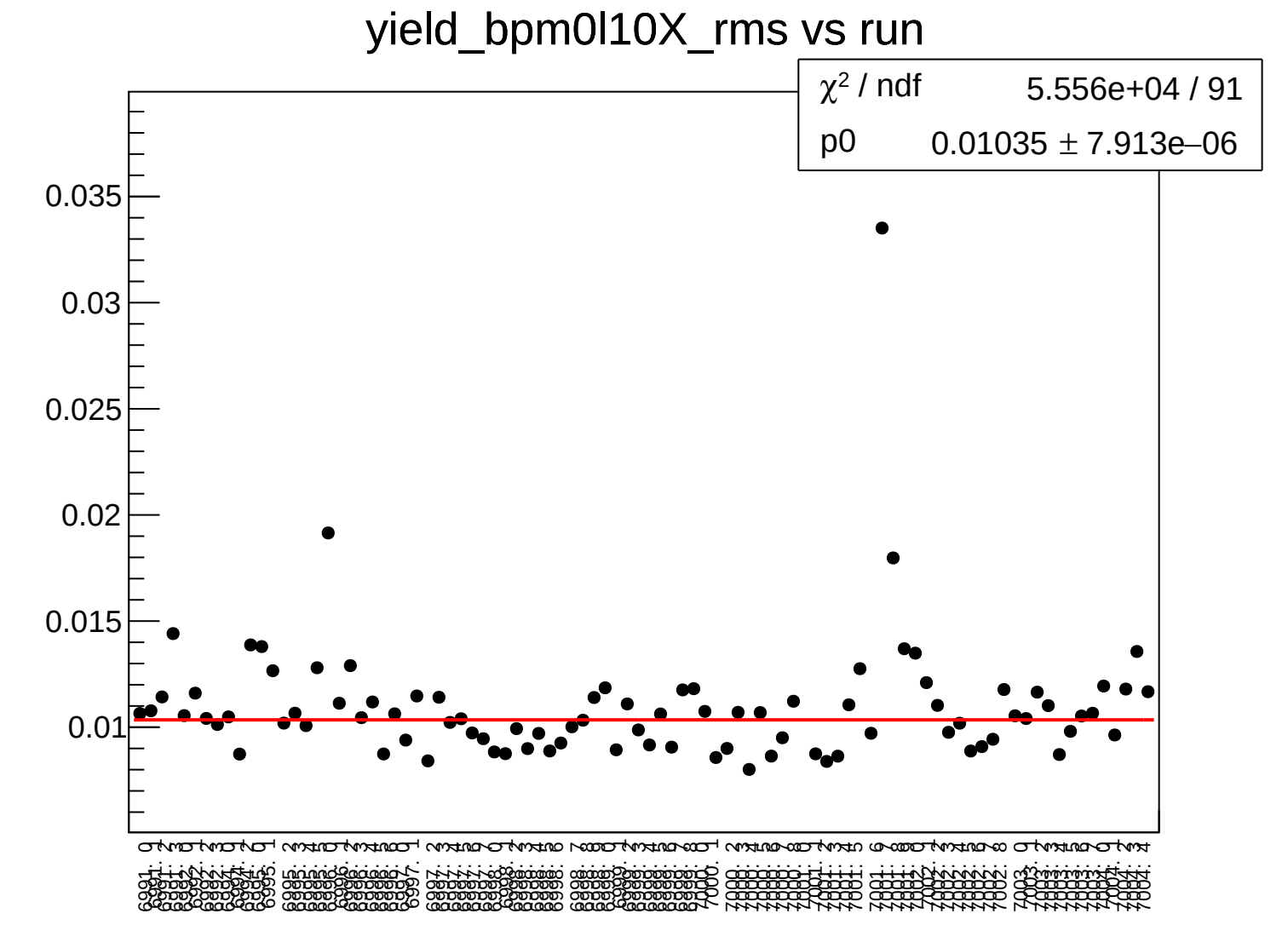

yield_bpm0l09X_rms vs run
χ² / ndf 5.953e+04 / 91
p0 0.01158 ± 8.864e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

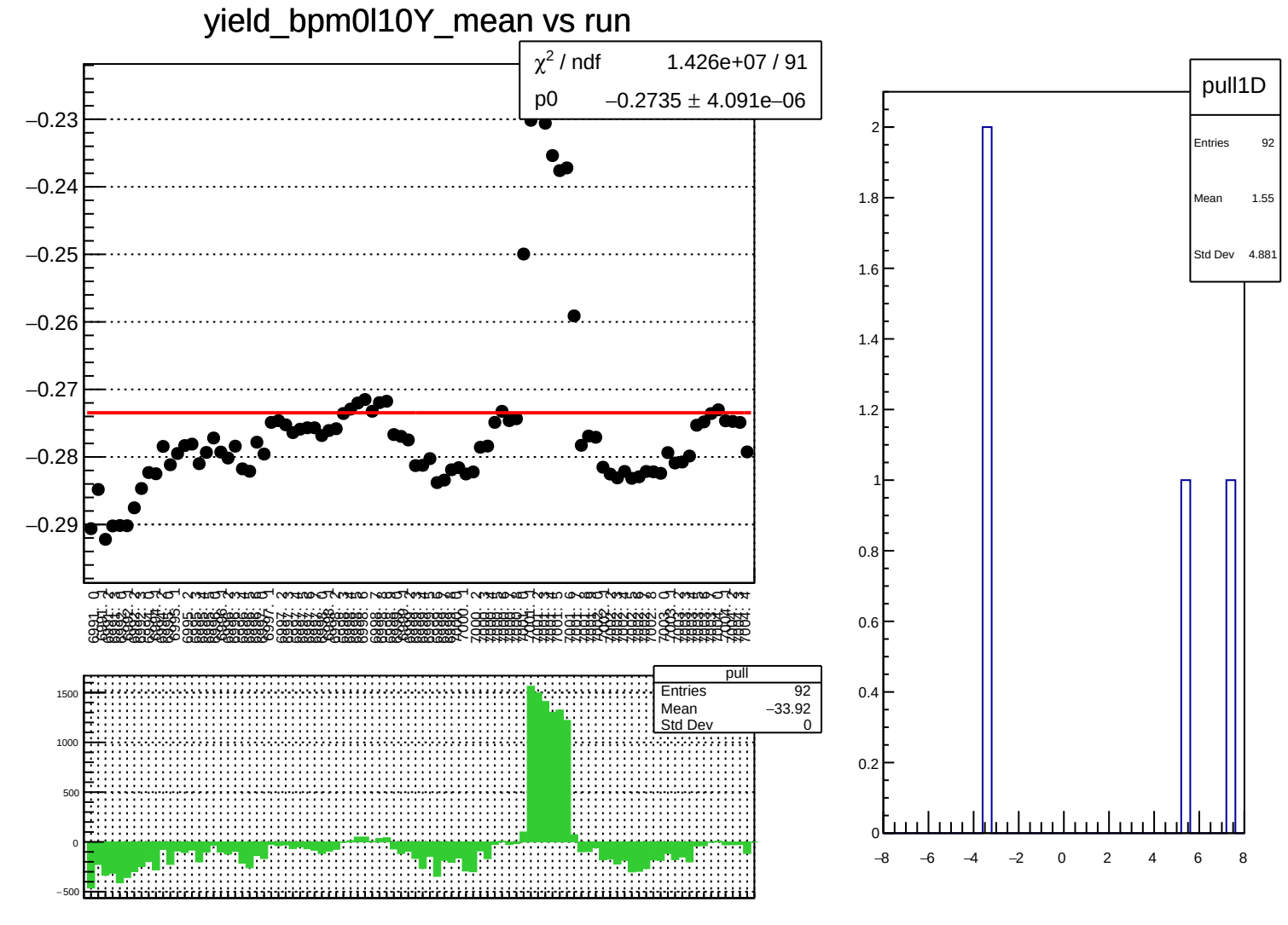

yield_bpm0l09Y_mean vs run
χ² / ndf 1.119e+07 / 91
p0 0.3053 ± 3.508e−06
0.34
0.33
0.32
0.31
0.3
0.29
pull
Entries 92
Mean −23.2
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

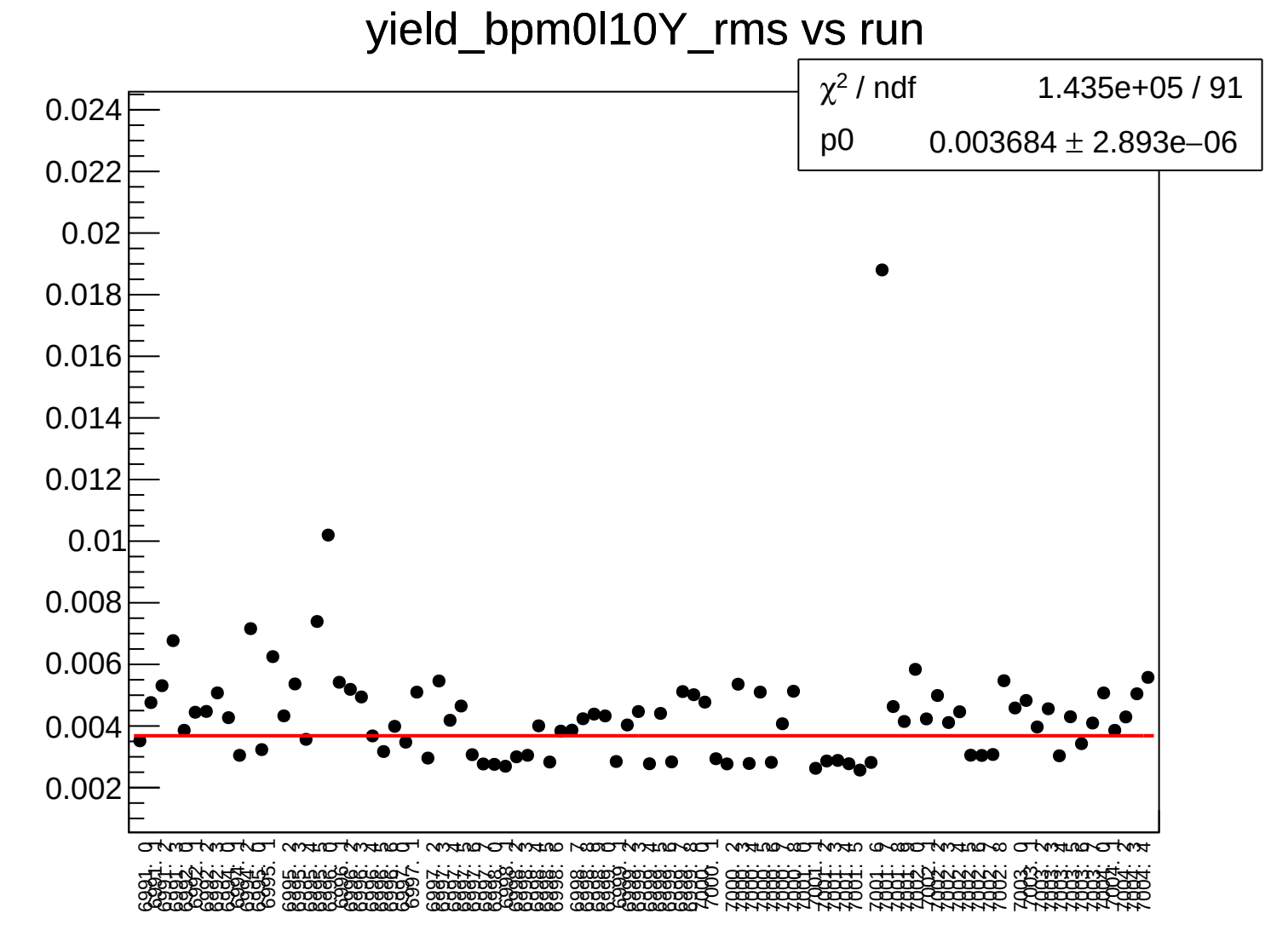

pull1D
Entries 92
Mean 2.731
Std Dev 3.421
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

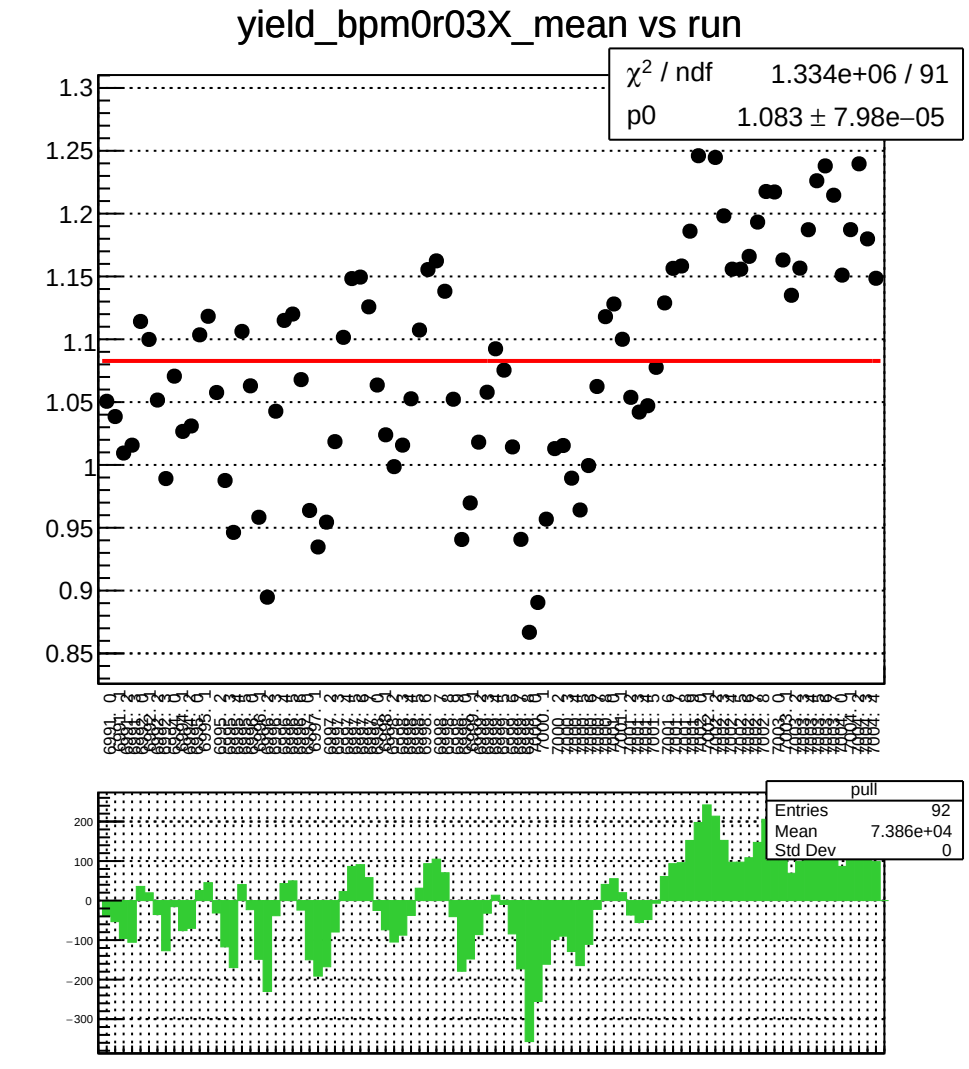

yield_bpm0l09Y_rms vs run
χ² / ndf 1.06e+05 / 91
p0 0.003196 ± 2.481e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

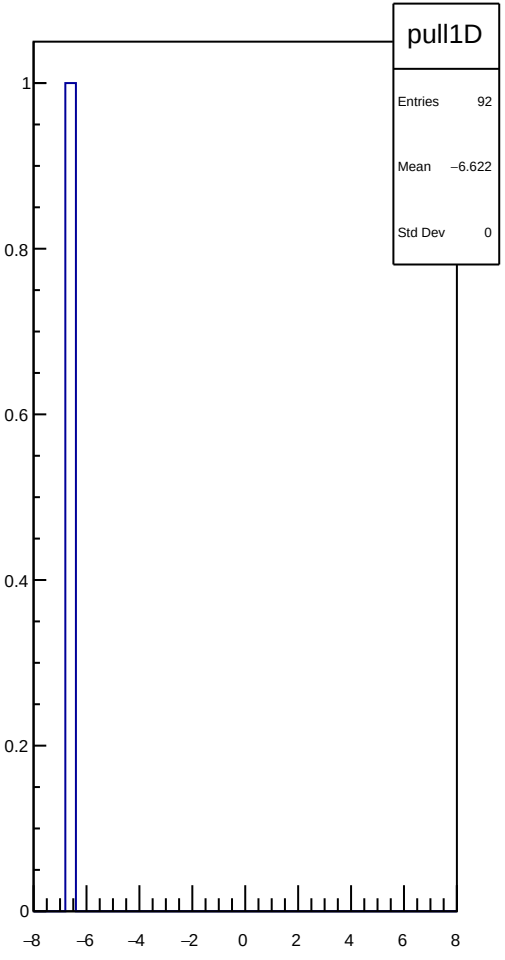

yield_bpm0l10X_mean vs run
χ² / ndf 1.033e+07 / 91
p0 −1.44 ± 1.119e−05
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
−1.5
−1.52
−1.54
pull
Entries 92
Mean 96.87
Std Dev 142.8
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 92
Mean 1.549
Std Dev 4.042
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

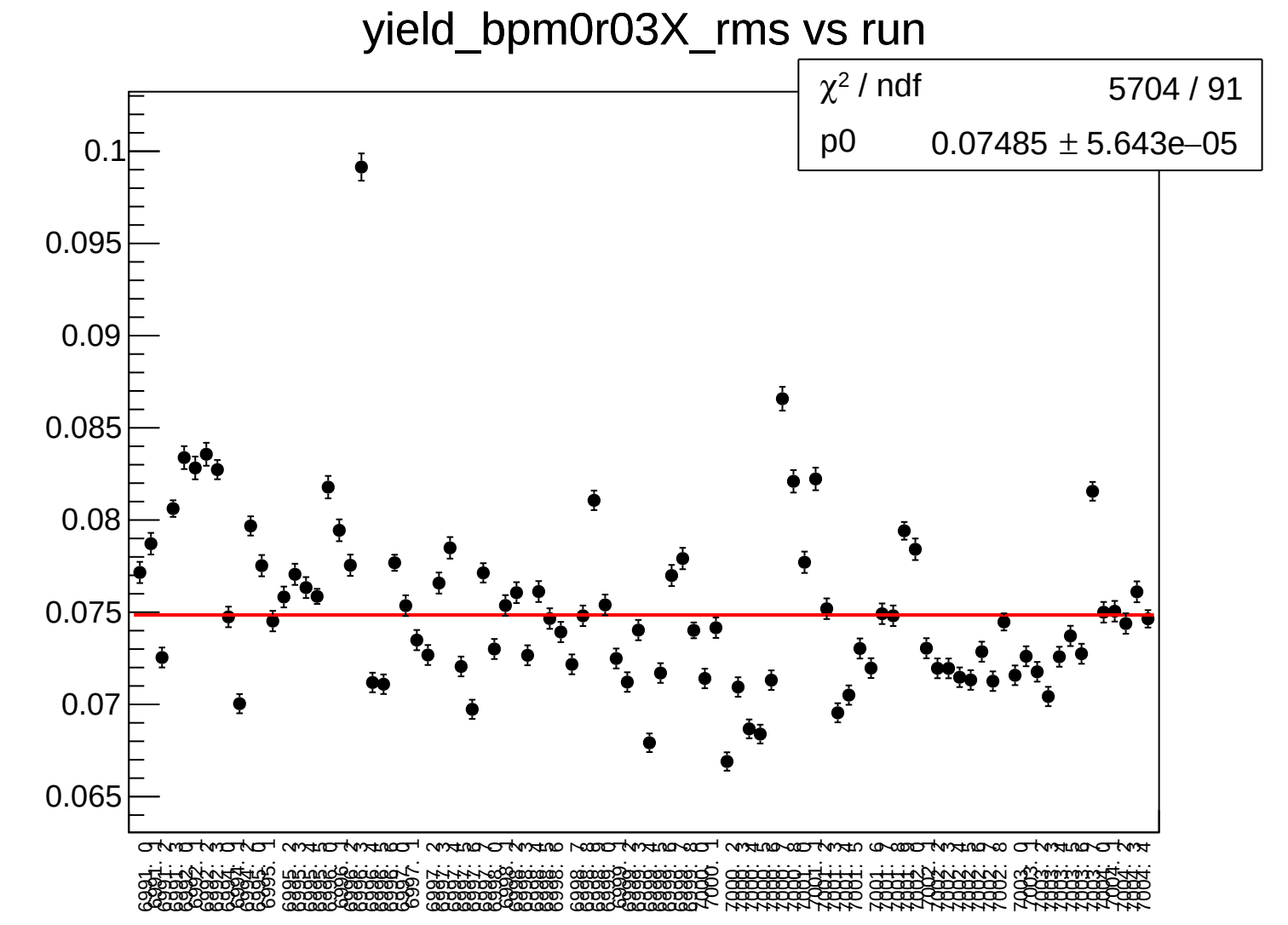

yield_bpm0l10X_rms vs run
χ² / ndf 5.556e+04 / 91
p0 0.01035 ± 7.913e–06
0.035
0.03
0.025
0.02
0.015
0.01

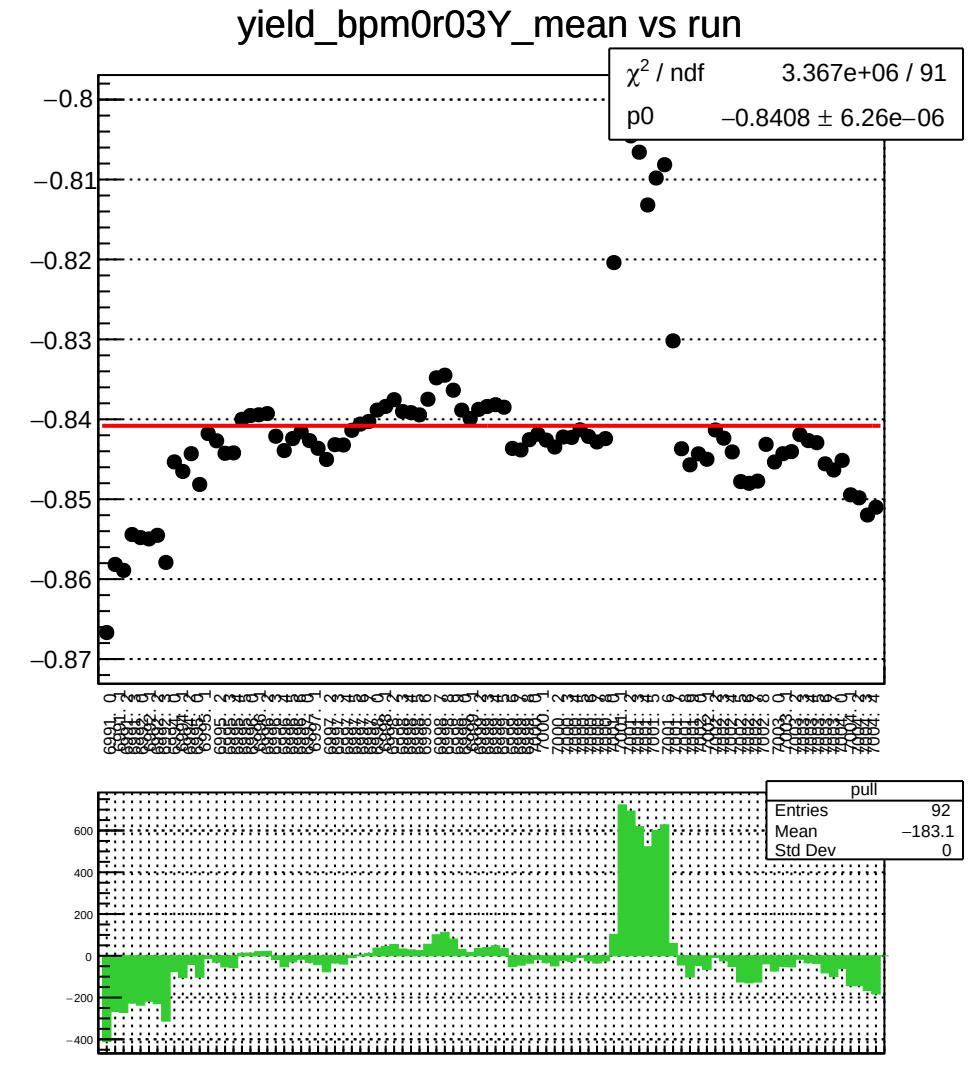

yield_bpm0l10Y_mean vs run
χ² / ndf 1.426e+07 / 91
p0 −0.2735 ± 4.091e−06
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
pull
Entries 92
Mean −33.92
Std Dev 0
1500
1000
500
0
−500
pull1D
Entries 92
Mean 1.55
Std Dev 4.881
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

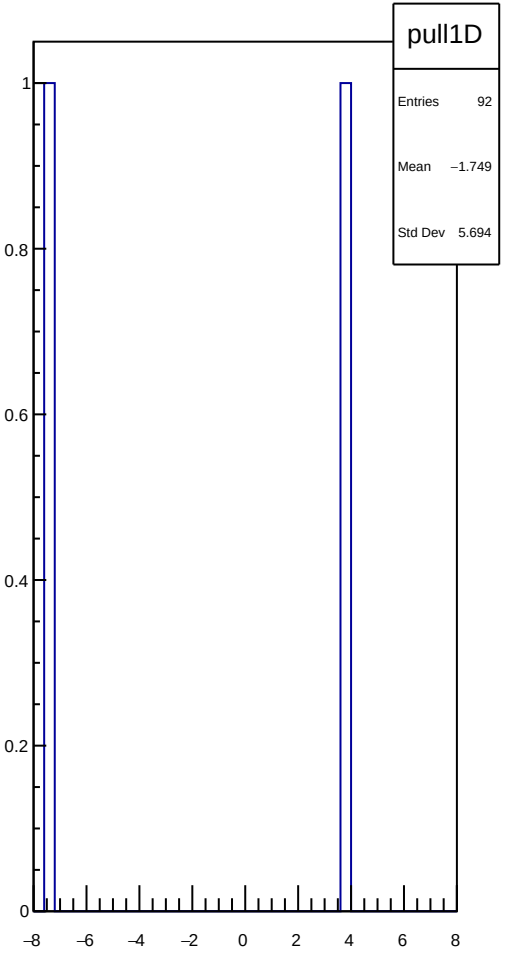

yield_bpm0l10Y_rms vs run
χ^2 / ndf 1.435e+05 / 91
p0 0.003684 ± 2.893e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

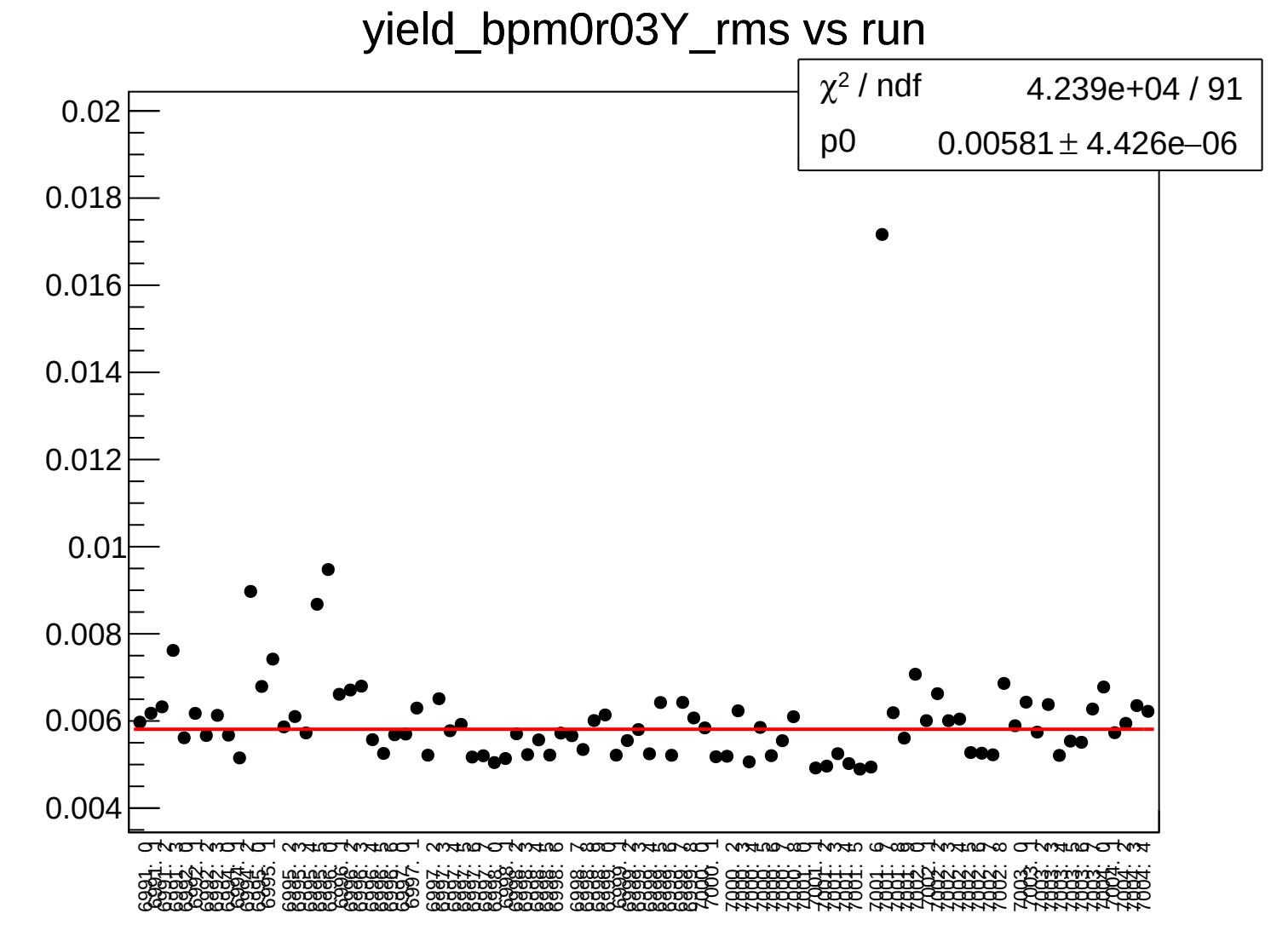

yield_bpm0r03X_mean vs run
χ² / ndf 1.334e+06 / 91
p0 1.083 ± 7.98e−05
pull
Entries 92
Mean 7.386e+04
Std Dev 0

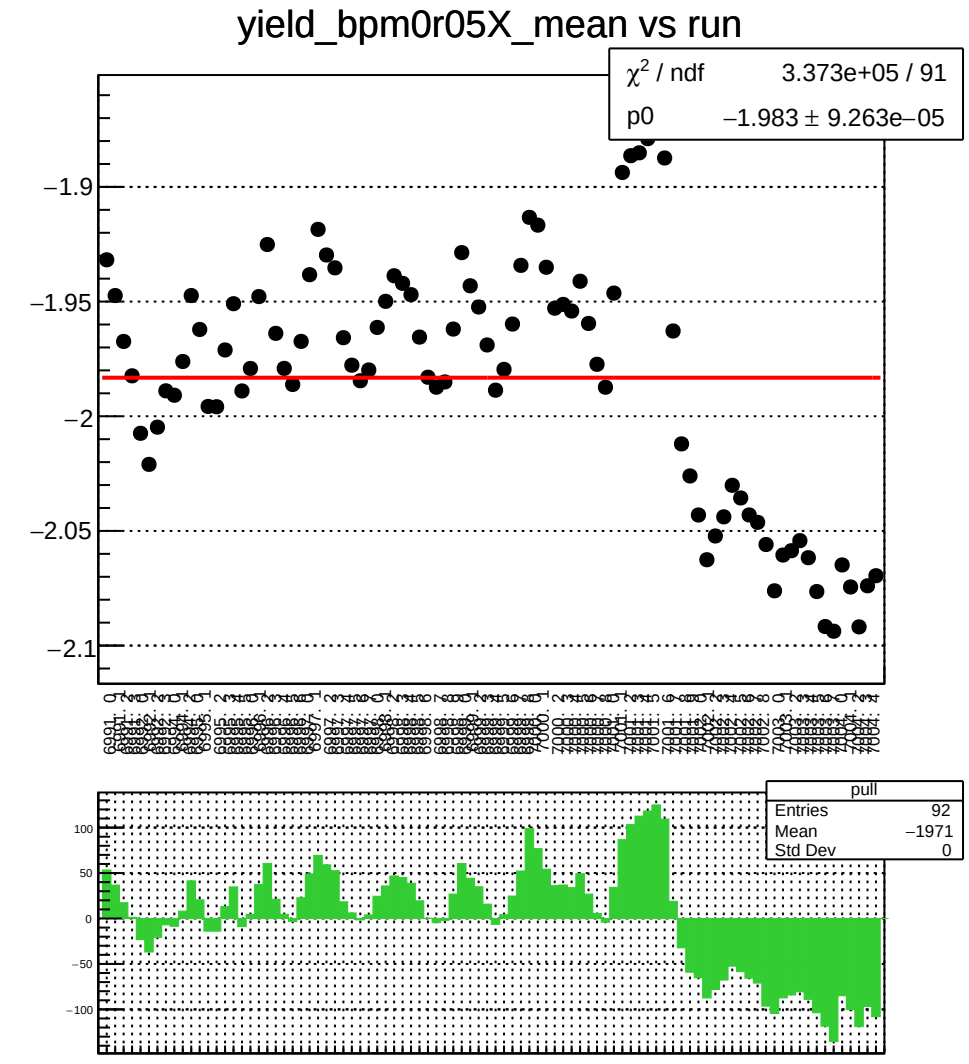

pull1D
Entries 92
Mean −6.622
Std Dev 0

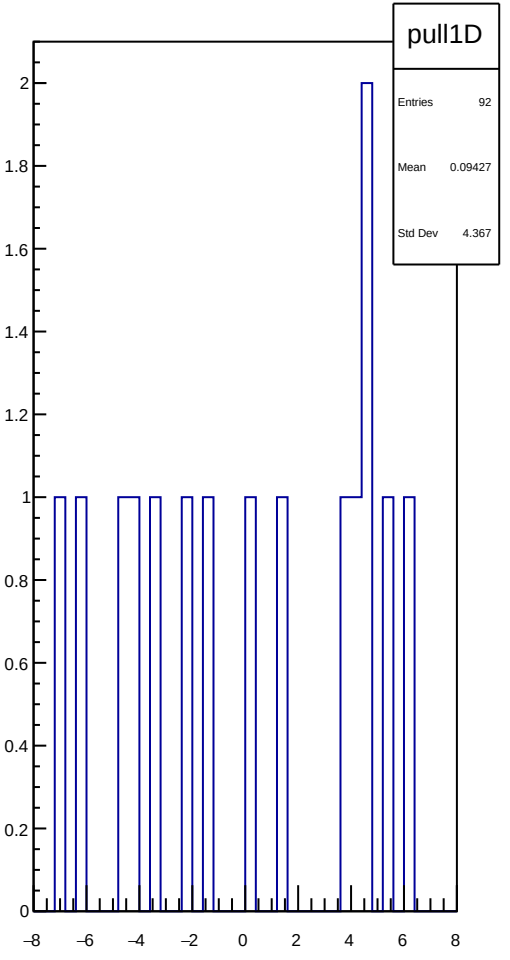

yield_bpm0r03X_rms vs run
χ² / ndf 5704 / 91
p0 0.07485 ± 5.643e−05
0.1
0.095
0.09
0.085
0.08
0.075
0.07
0.065

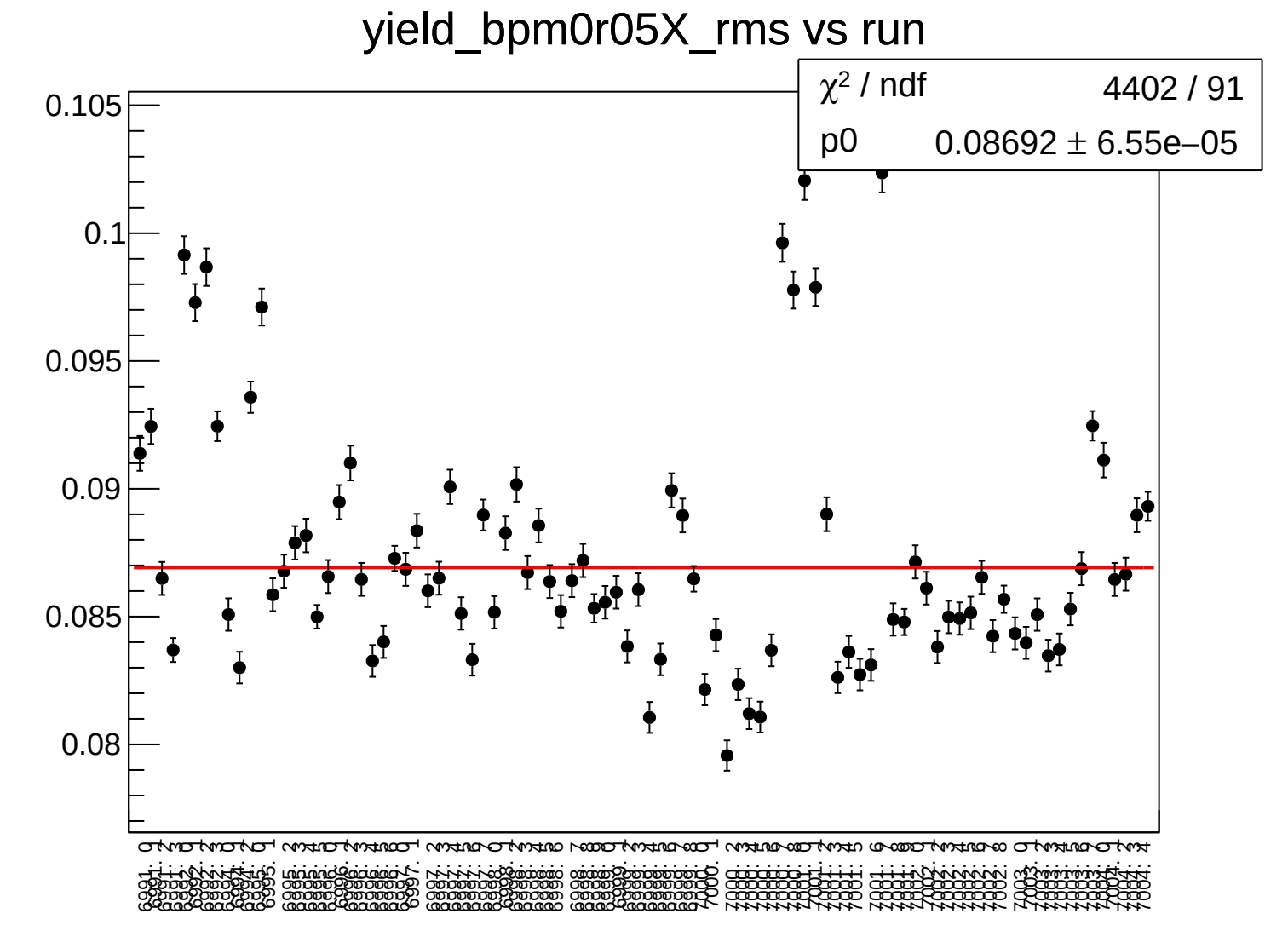

yield_bpm0r03Y_mean vs run
χ² / ndf 3.367e+06 / 91
p0 −0.8408 ± 6.26e−06
−0.8
−0.81
−0.82
−0.83
−0.84
−0.85
−0.86
−0.87
pull
Entries 92
Mean −183.1
Std Dev 0
600
400
200
0
−200
−400

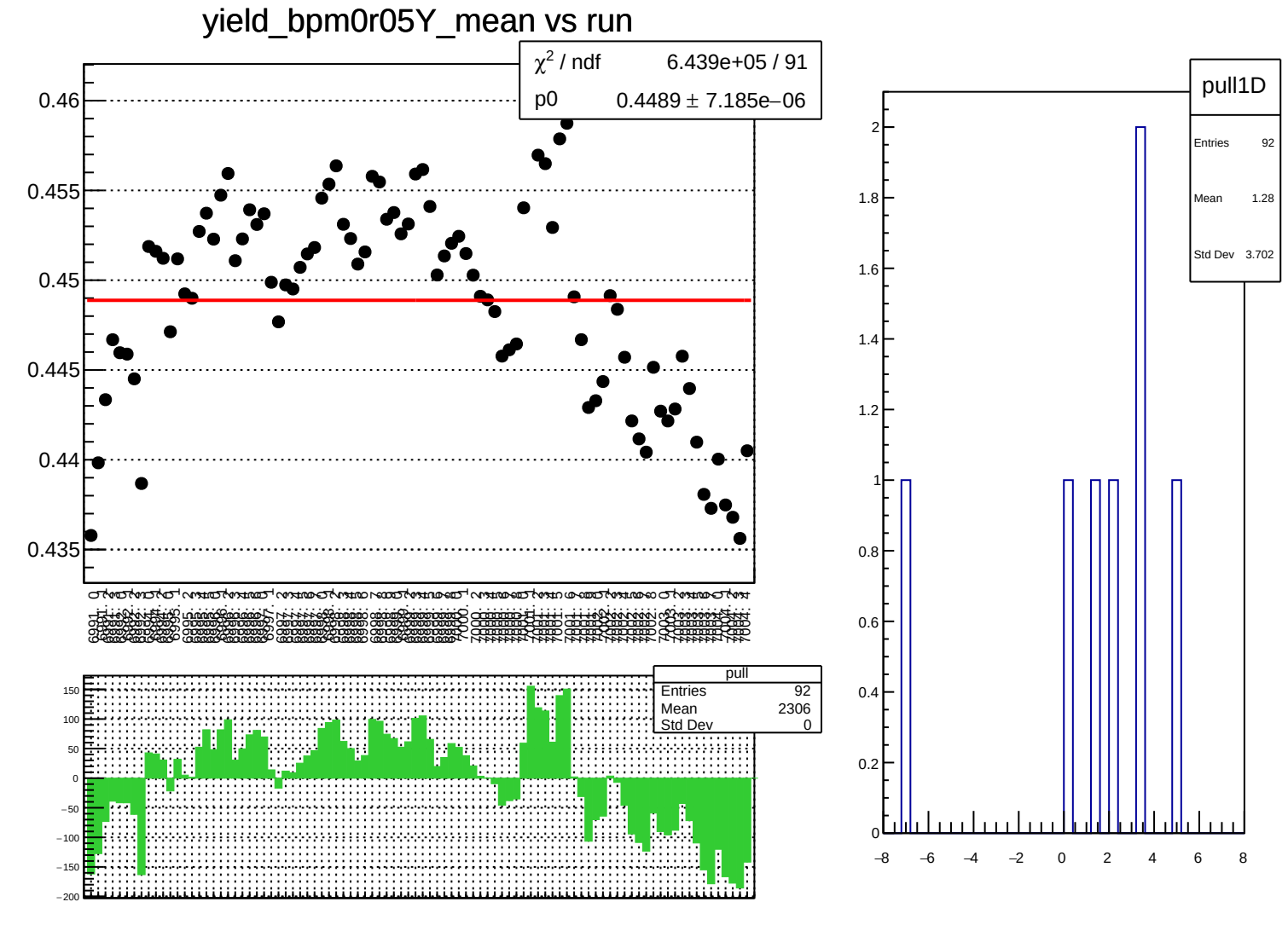

pull1D
Entries 92
Mean −1.749
Std Dev 5.694
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

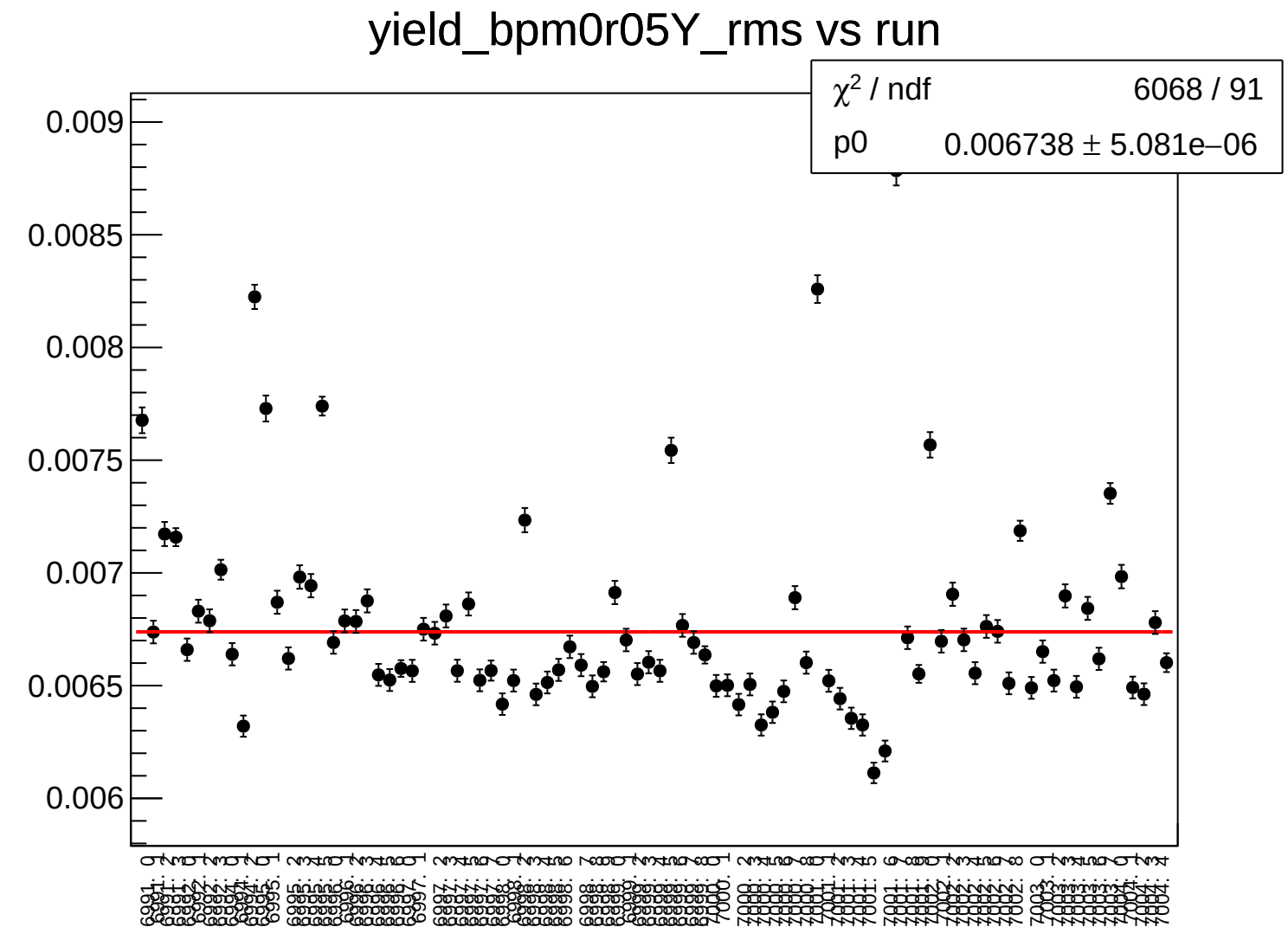

yield_bpm0r03Y_rms vs run
χ² / ndf 4.239e+04 / 91
p0 0.00581 ± 4.426e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

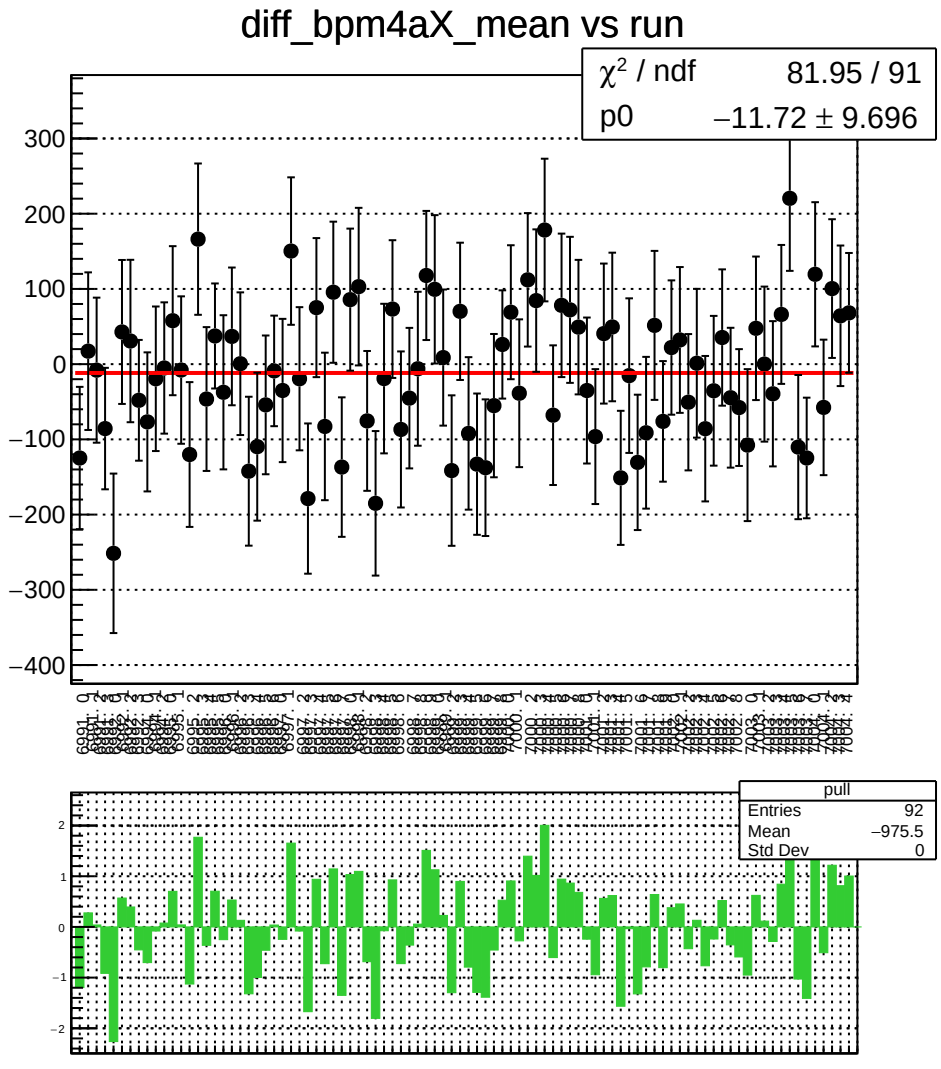

yield_bpm0r05X_mean vs run
χ² / ndf 3.373e+05 / 91
p0 −1.983 ± 9.263e−05
−1.9
−1.95
−2
−2.05
−2.1
pull
Entries 92
Mean −1971
Std Dev 0
100
50
0
−50
−100

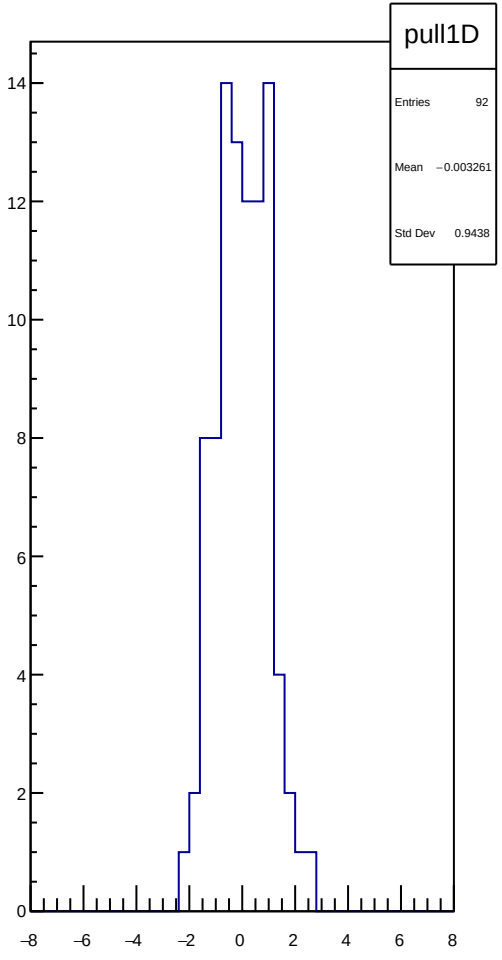

pull1D
Entries 92
Mean 0.09427
Std Dev 4.367
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

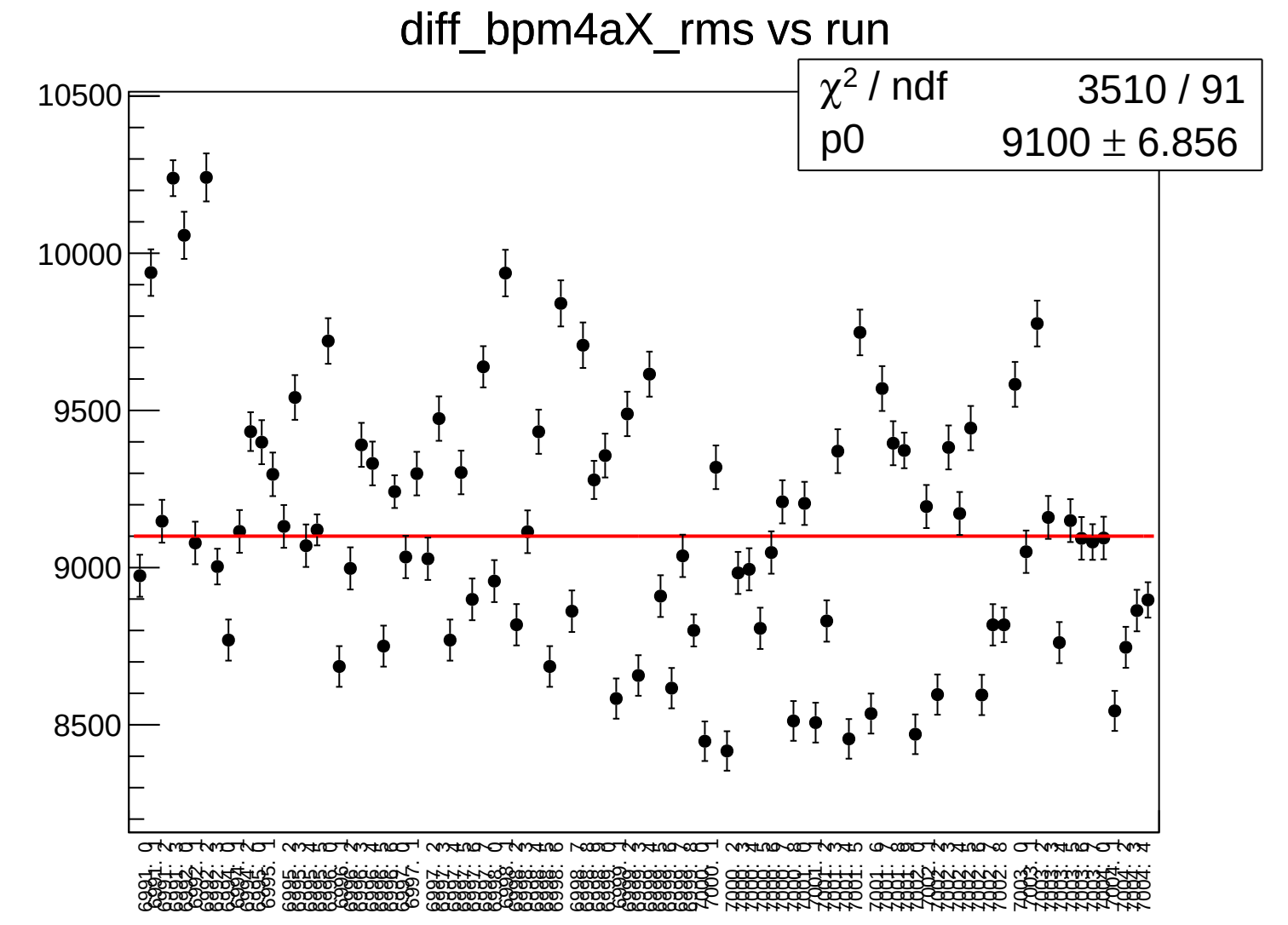

yield_bpm0r05X_rms vs run
χ² / ndf 4402 / 91
p0 0.08692 ± 6.55e−05
0.105
0.1
0.095
0.09
0.085
0.08

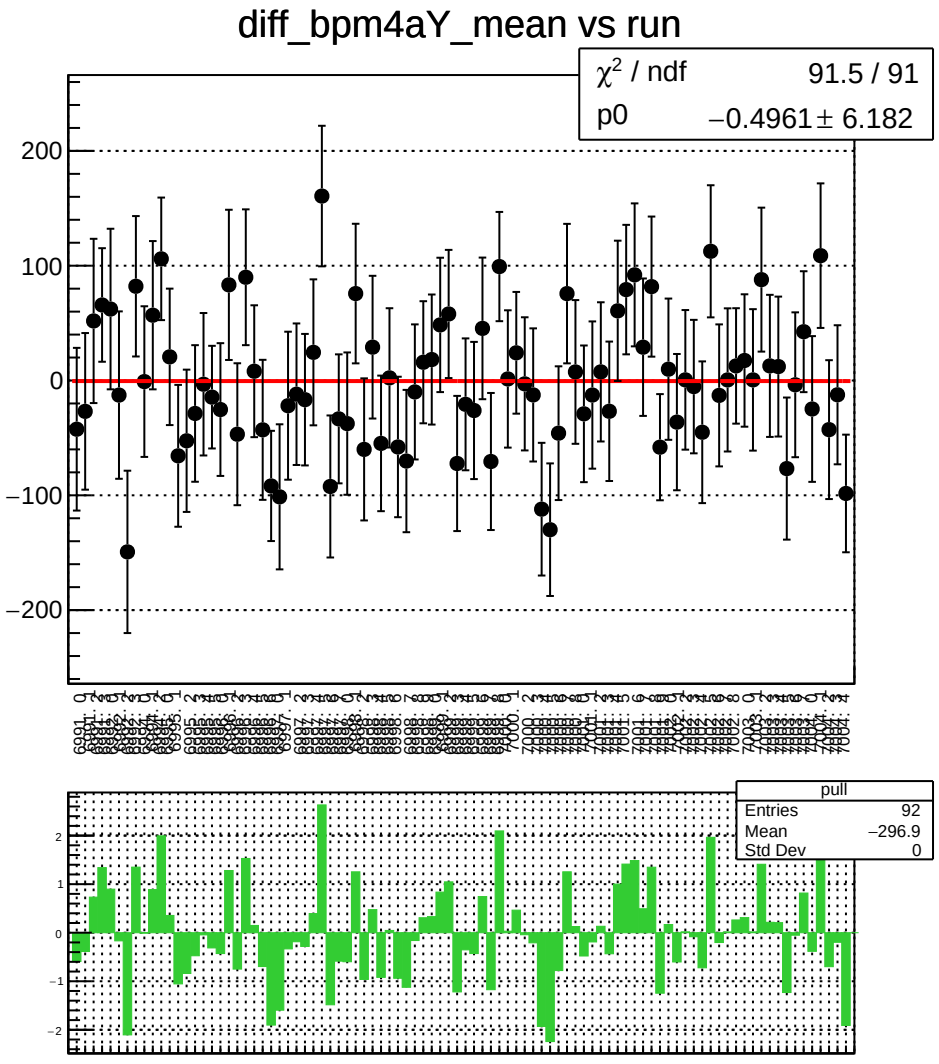

yield_bpm0r05Y_mean vs run
χ² / ndf 6.439e+05 / 91
p0 0.4489 ± 7.185e−06
0.46
0.455
0.45
0.445
0.44
0.435
pull
Entries 92
Mean 2306
Std Dev 0
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 92
Mean 1.28
Std Dev 3.702
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

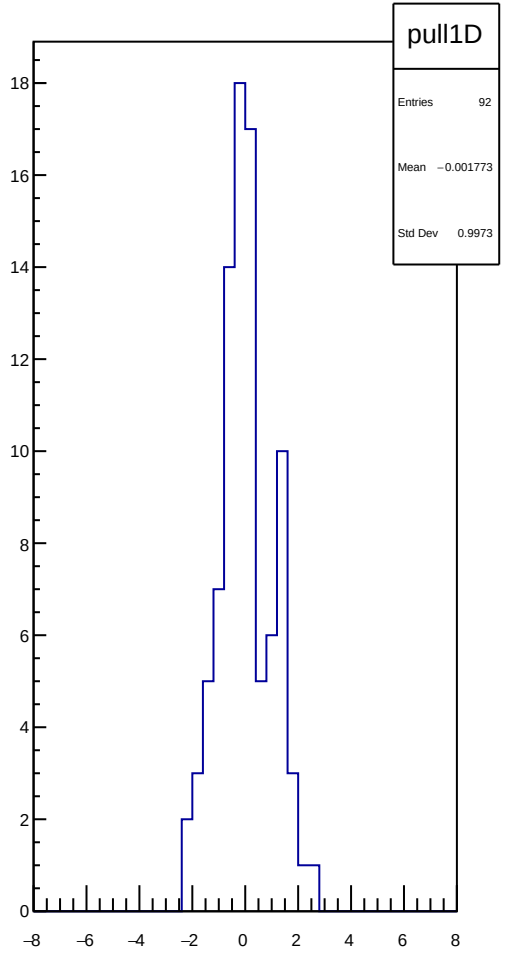

yield_bpm0r05Y_rms vs run
χ² / ndf 6068 / 91
p0 0.006738 ± 5.081e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

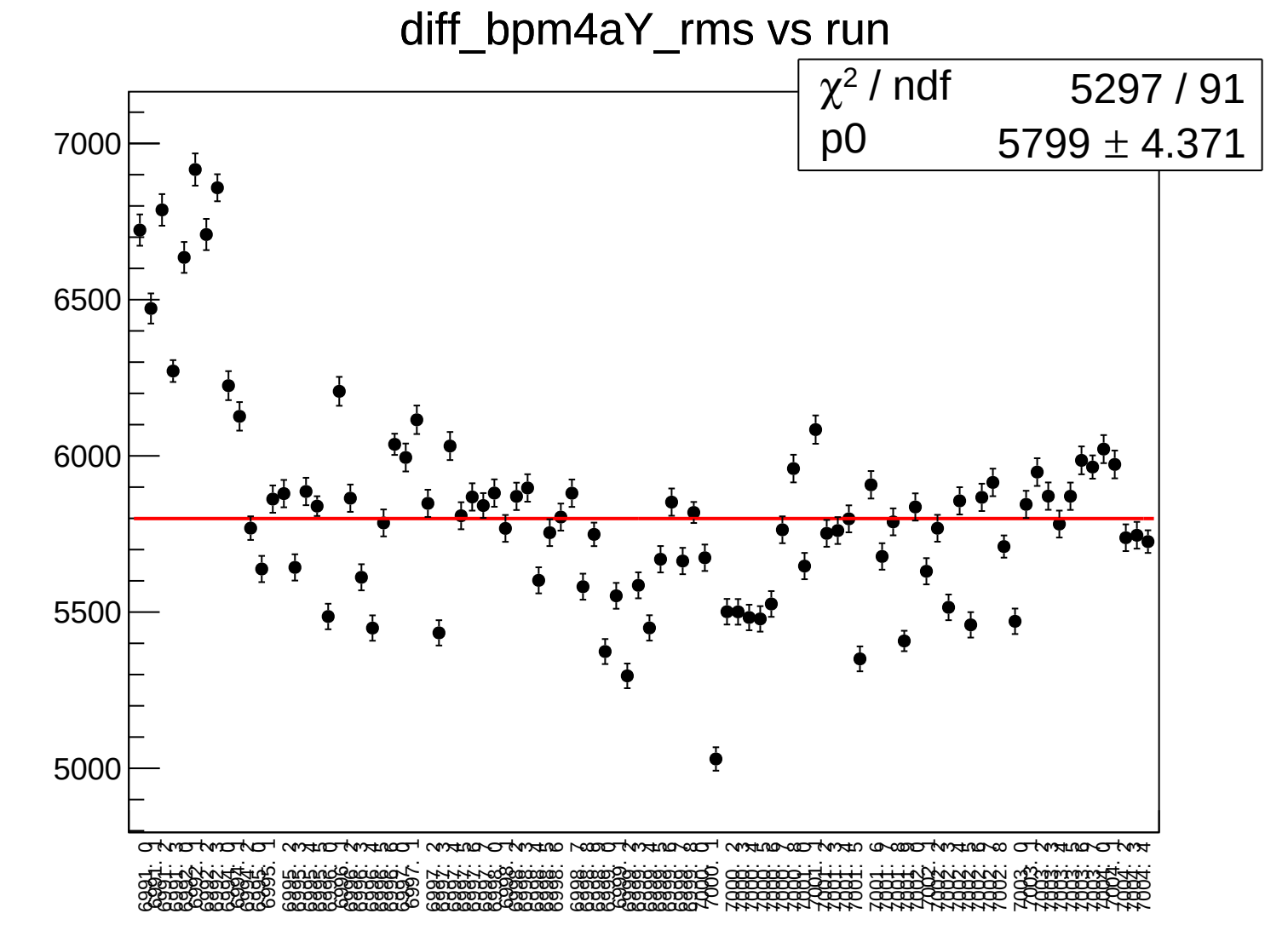

diff_bpm4aX_mean vs run
χ² / ndf 81.95 / 91
p0 −11.72 ± 9.696
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −975.5
Std Dev 0
2
1
0
−1
−2

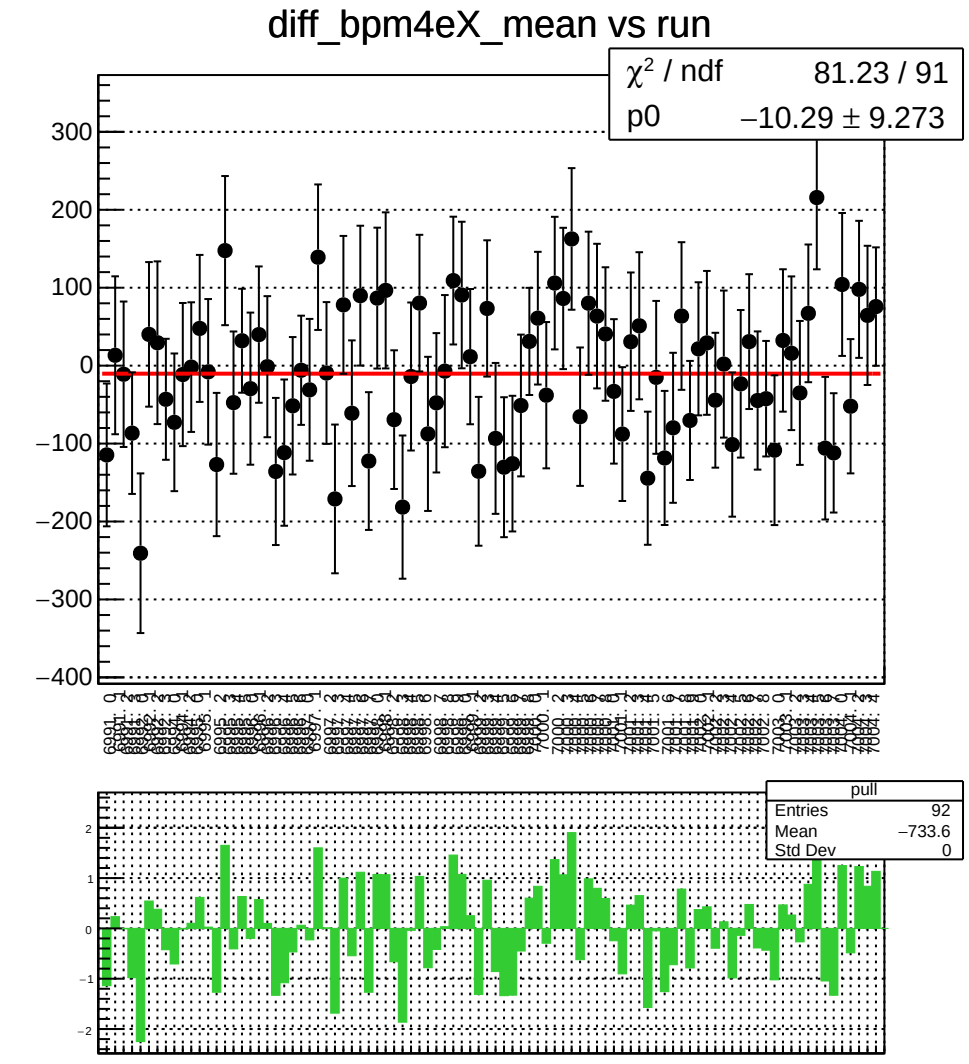

pull1D
Entries 92
Mean −0.003261
Std Dev 0.9438
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

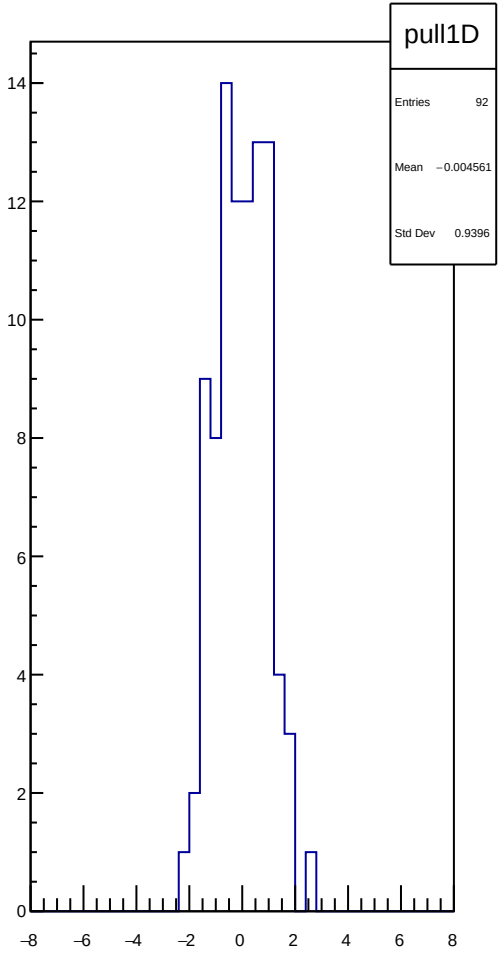

diff_bpm4aX_rms vs run
χ² / ndf 3510 / 91
p0 9100 ± 6.856
10500
10000
9500
9000
8500

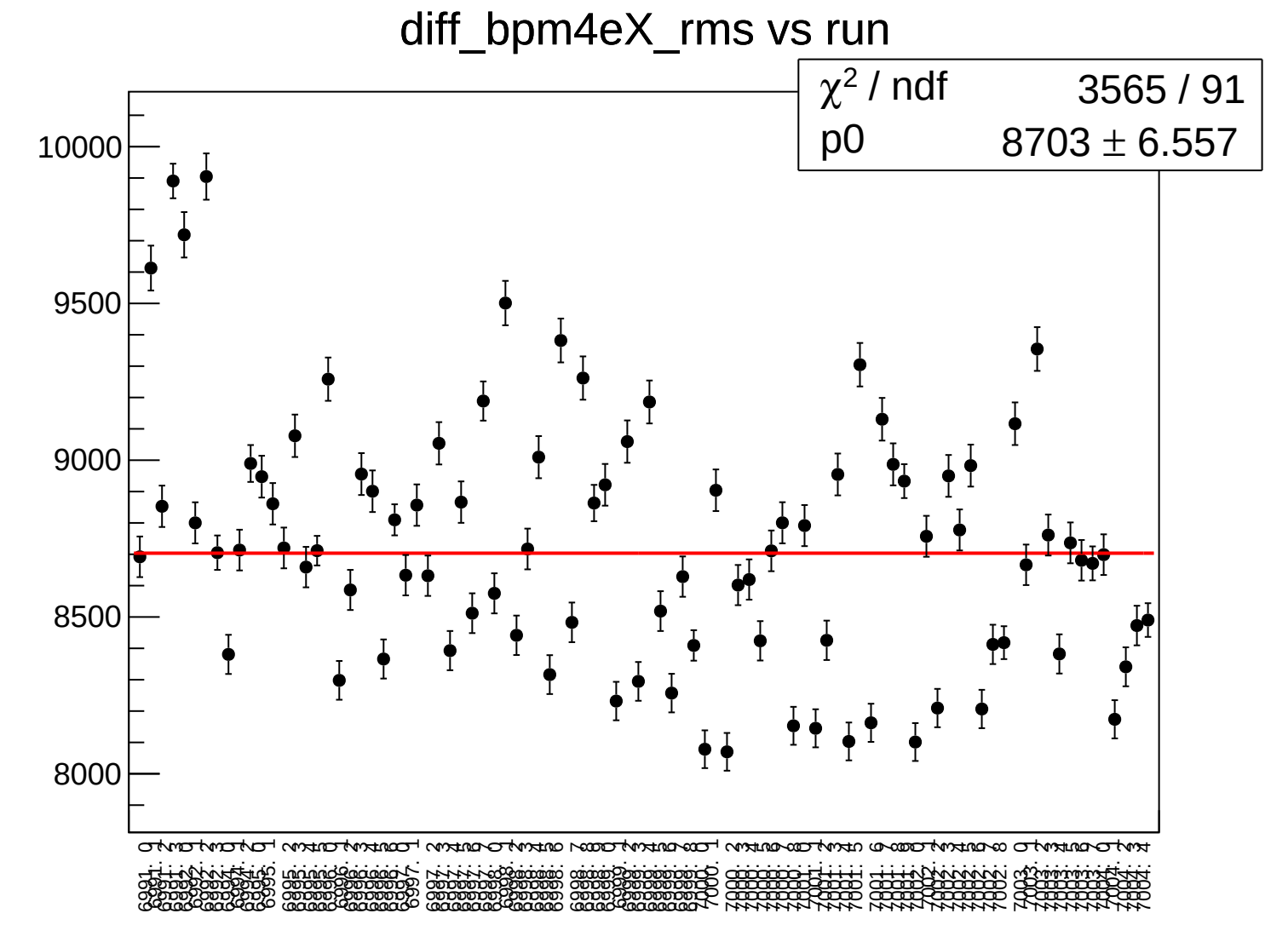

diff_bpm4aY_mean vs run
χ² / ndf 91.5 / 91
p0 −0.4961 ± 6.182
200
100
0
−100
−200
pull
Entries 92
Mean −296.9
Std Dev 0
2
1
0
−1
−2

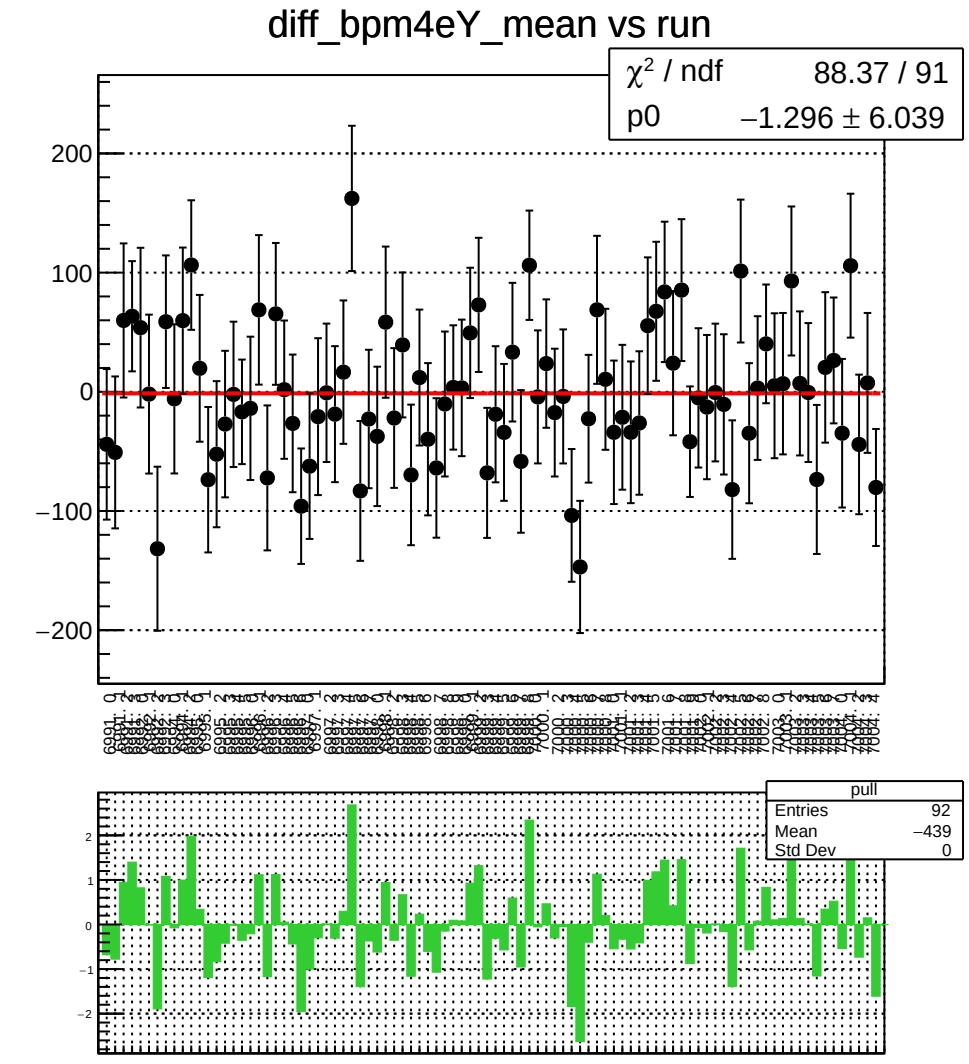

pull1D
Entries 92
Mean −0.001773
Std Dev 0.9973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

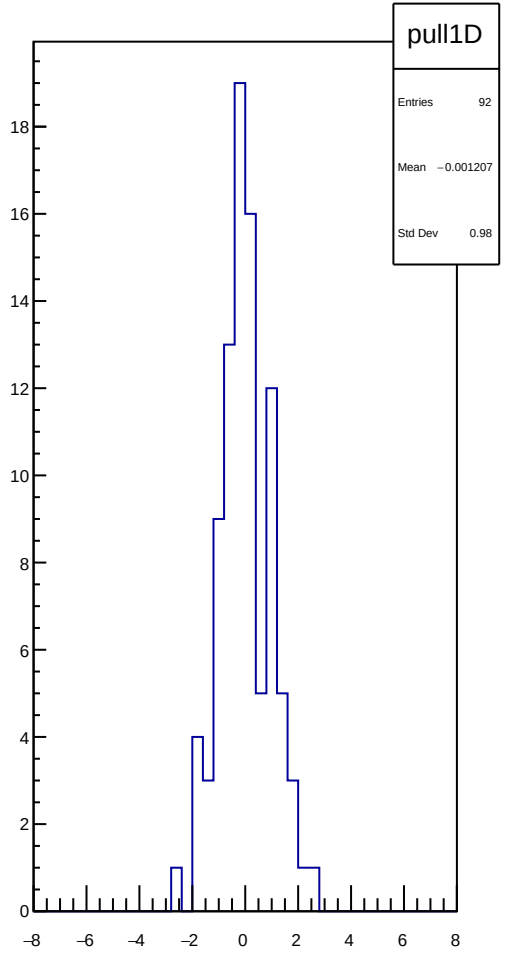

diff_bpm4aY_rms vs run
χ² / ndf 5297 / 91
p0 5799 ± 4.371
7000
6500
6000
5500
5000

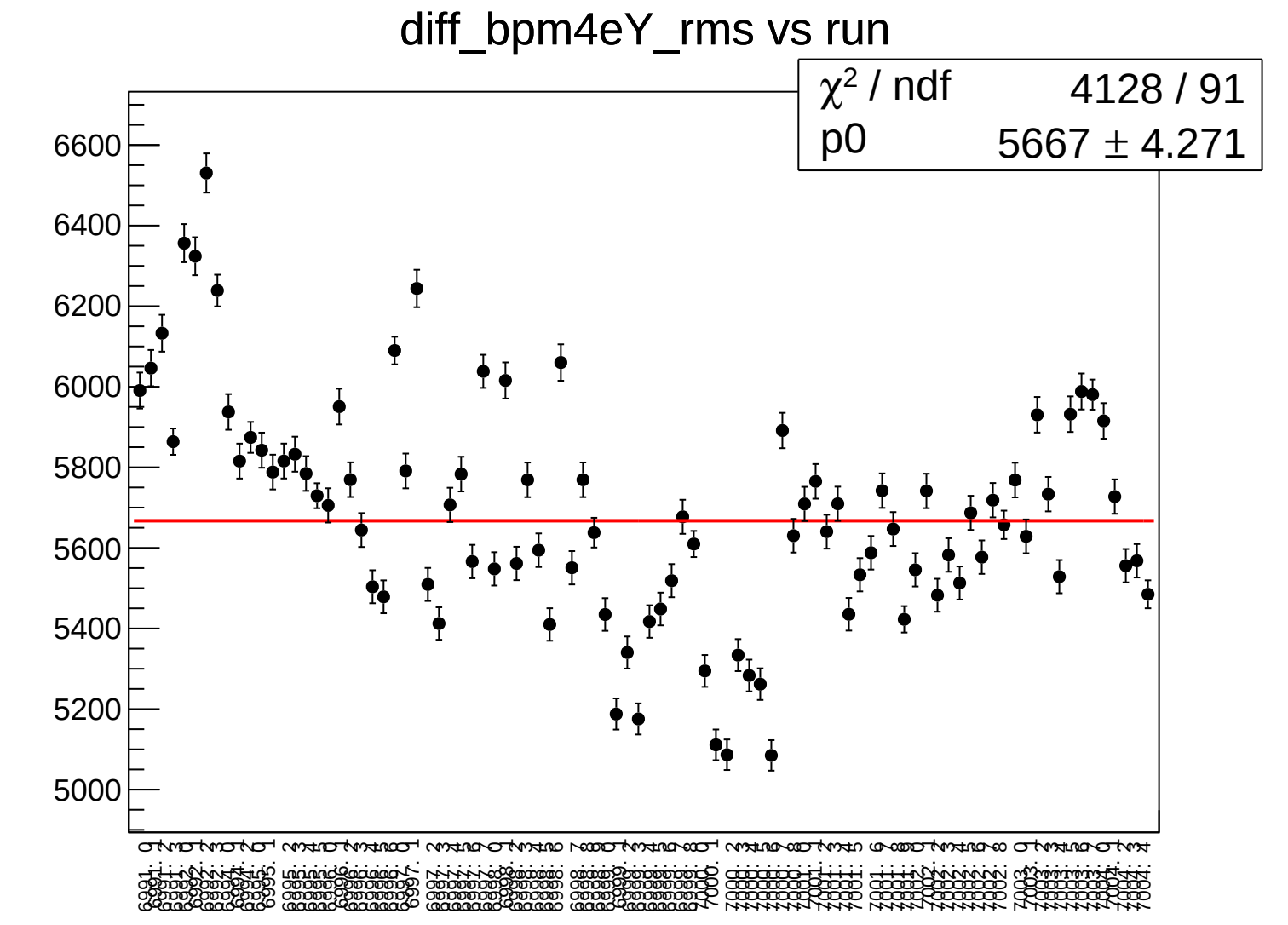

diff_bpm4eX_mean vs run
χ² / ndf 81.23 / 91
p0 −10.29 ± 9.273
pull
Entries 92
Mean −733.6
Std Dev 0

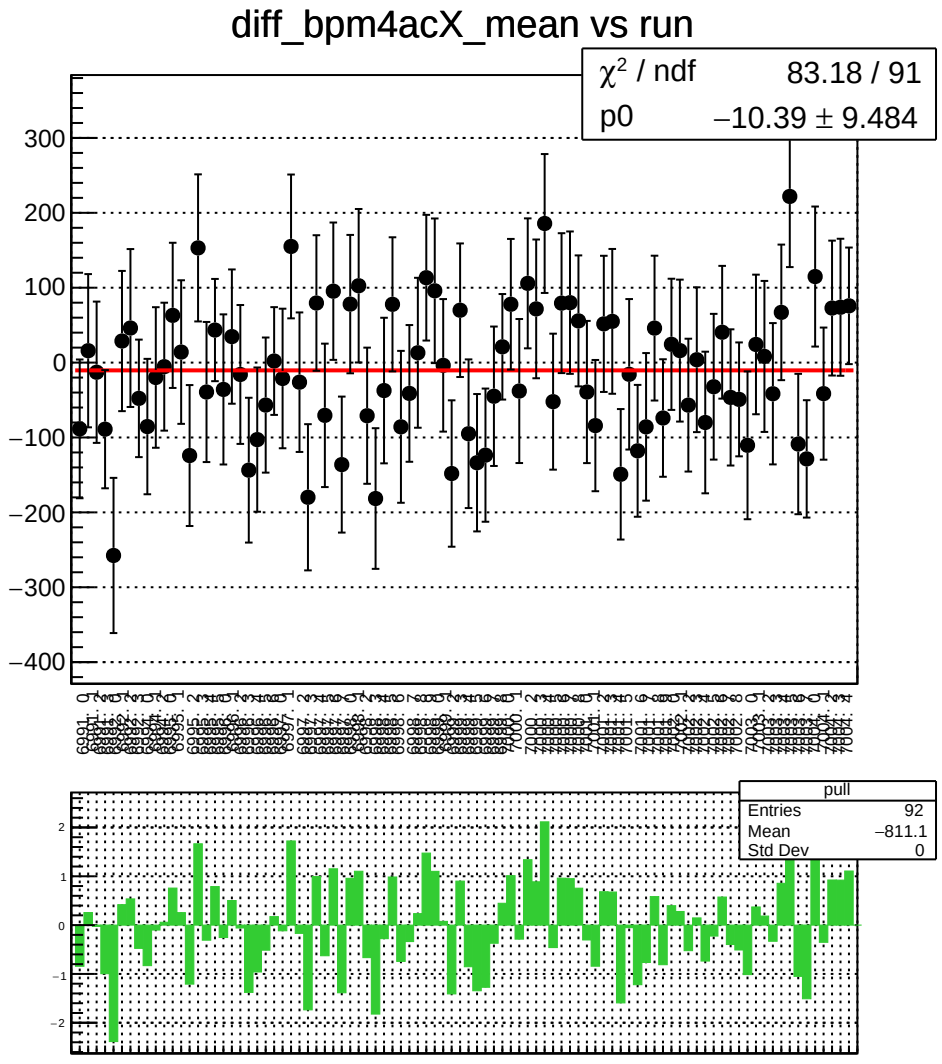

pull1D
Entries 92
Mean −0.004561
Std Dev 0.9396

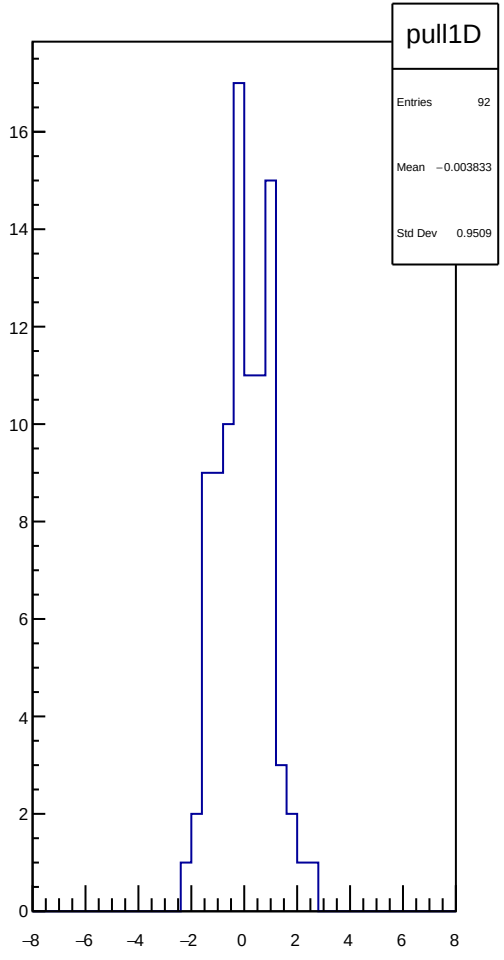

diff_bpm4eX_rms vs run
χ^2 / ndf 3565 / 91
p0 8703 ± 6.557
10000
9500
9000
8500
8000

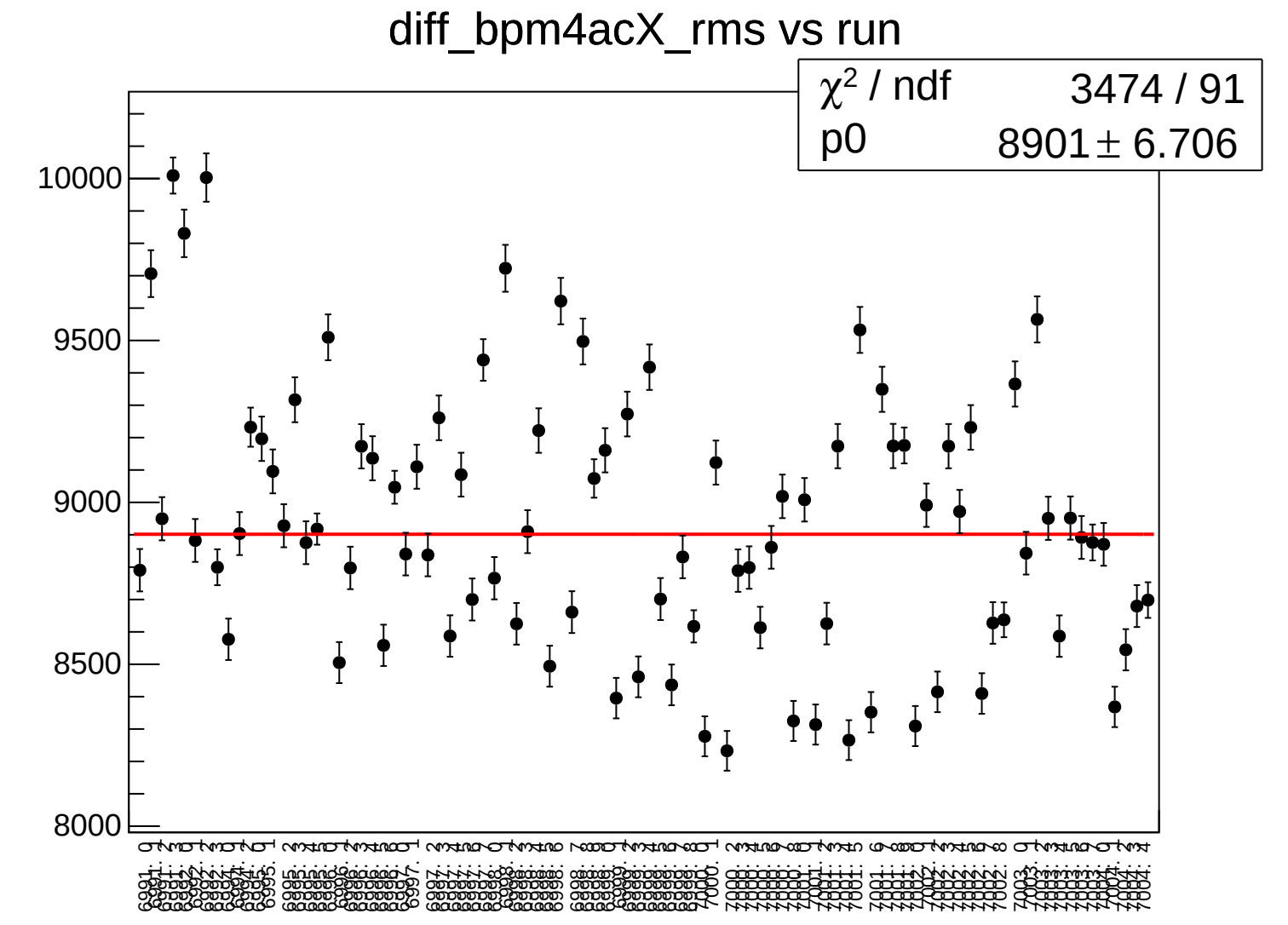

diff_bpm4eY_mean vs run
χ² / ndf 88.37 / 91
p0 −1.296 ± 6.039
200
100
0
−100
−200
pull
Entries 92
Mean −439
Std Dev 0
2
1
0
−1
−2

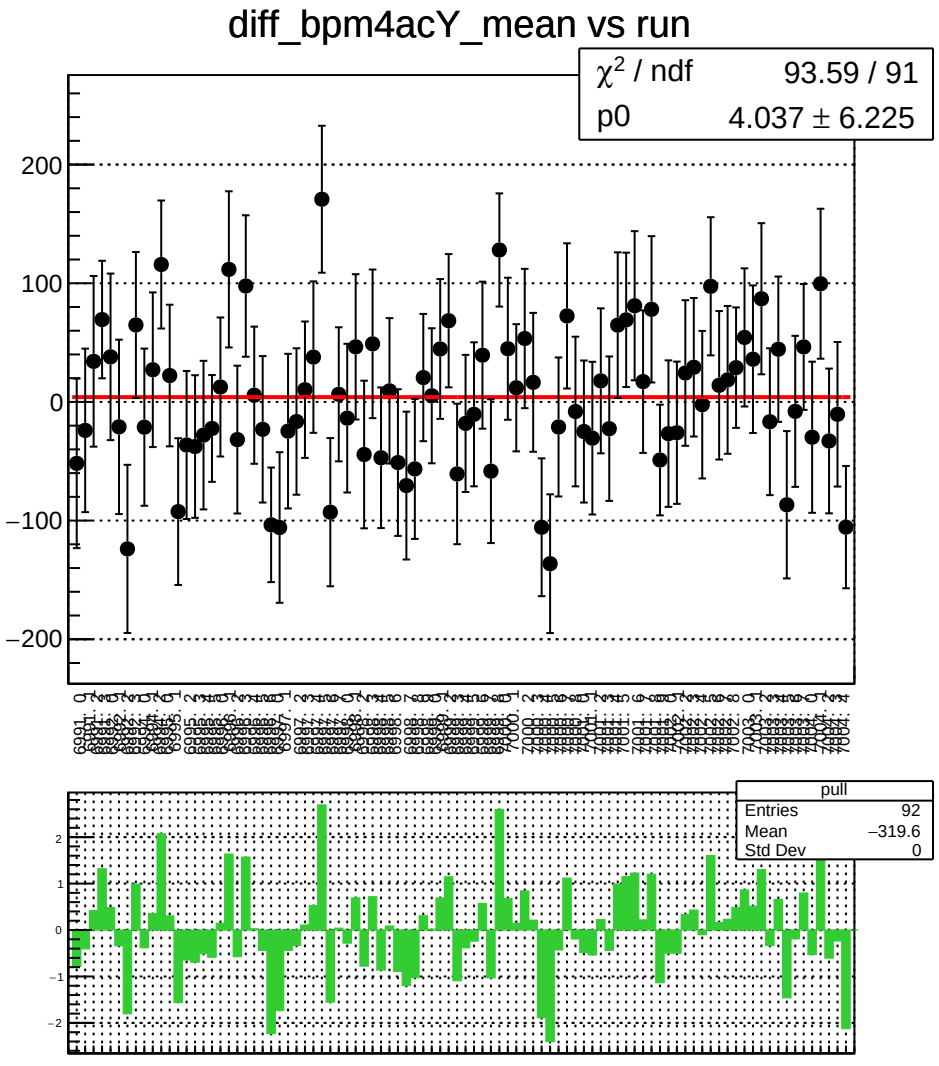

pull1D
Entries 92
Mean −0.001207
Std Dev 0.98
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

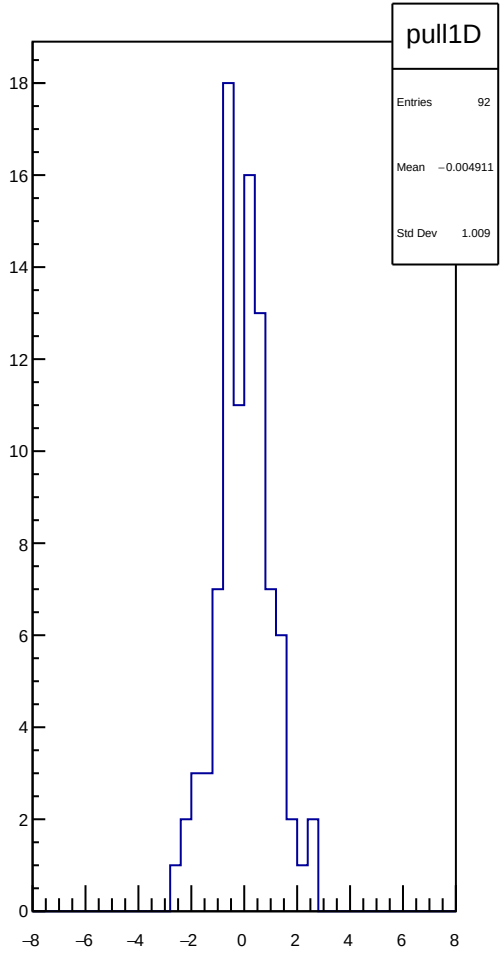

diff_bpm4eY_rms vs run
χ² / ndf 4128 / 91
p0 5667 ± 4.271
6600
6400
6200
6000
5800
5600
5400
5200
5000

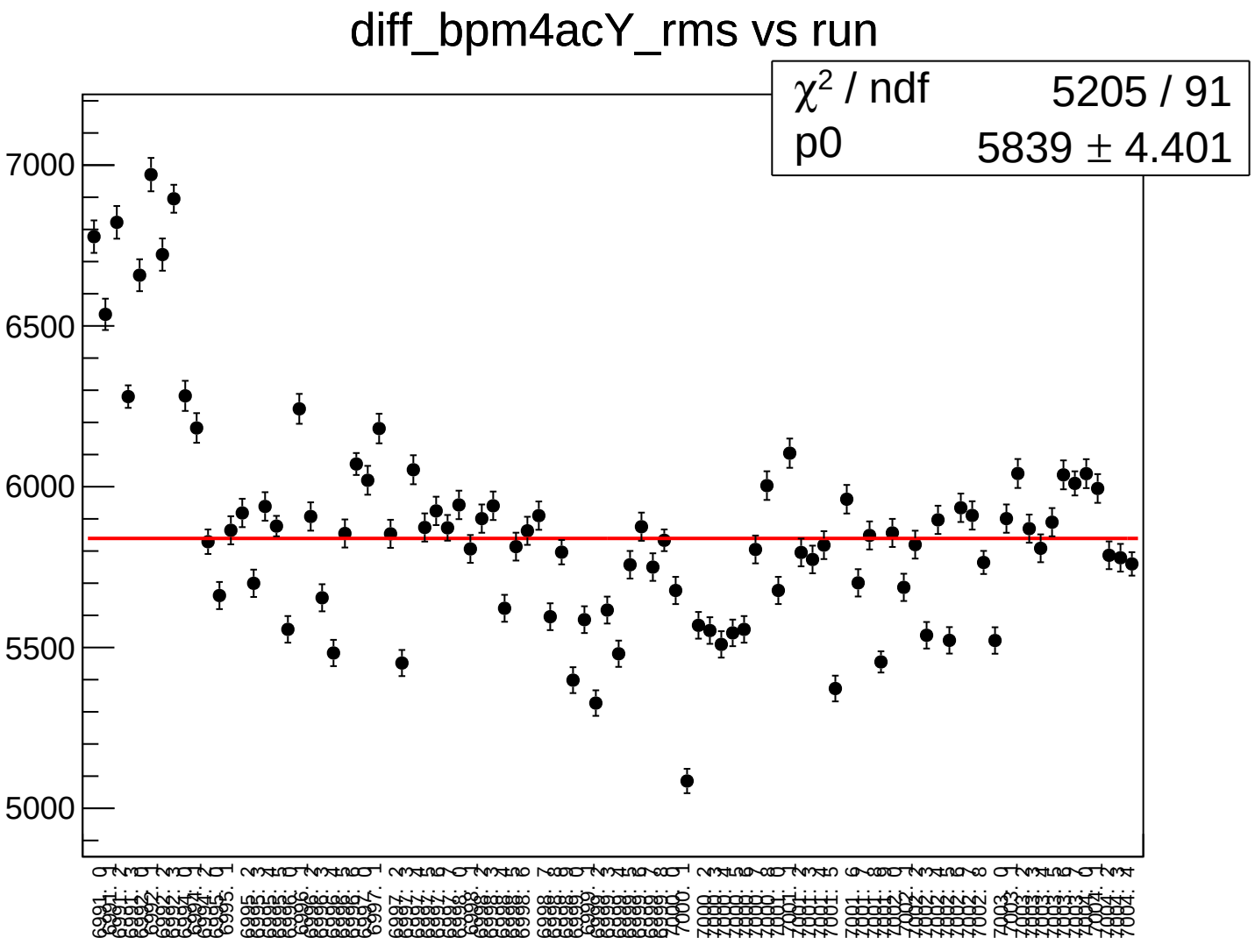

diff_bpm4acX_mean vs run
χ² / ndf 83.18 / 91
p0 −10.39 ± 9.484
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −811.1
Std Dev 0
2
1
0
−1
−2

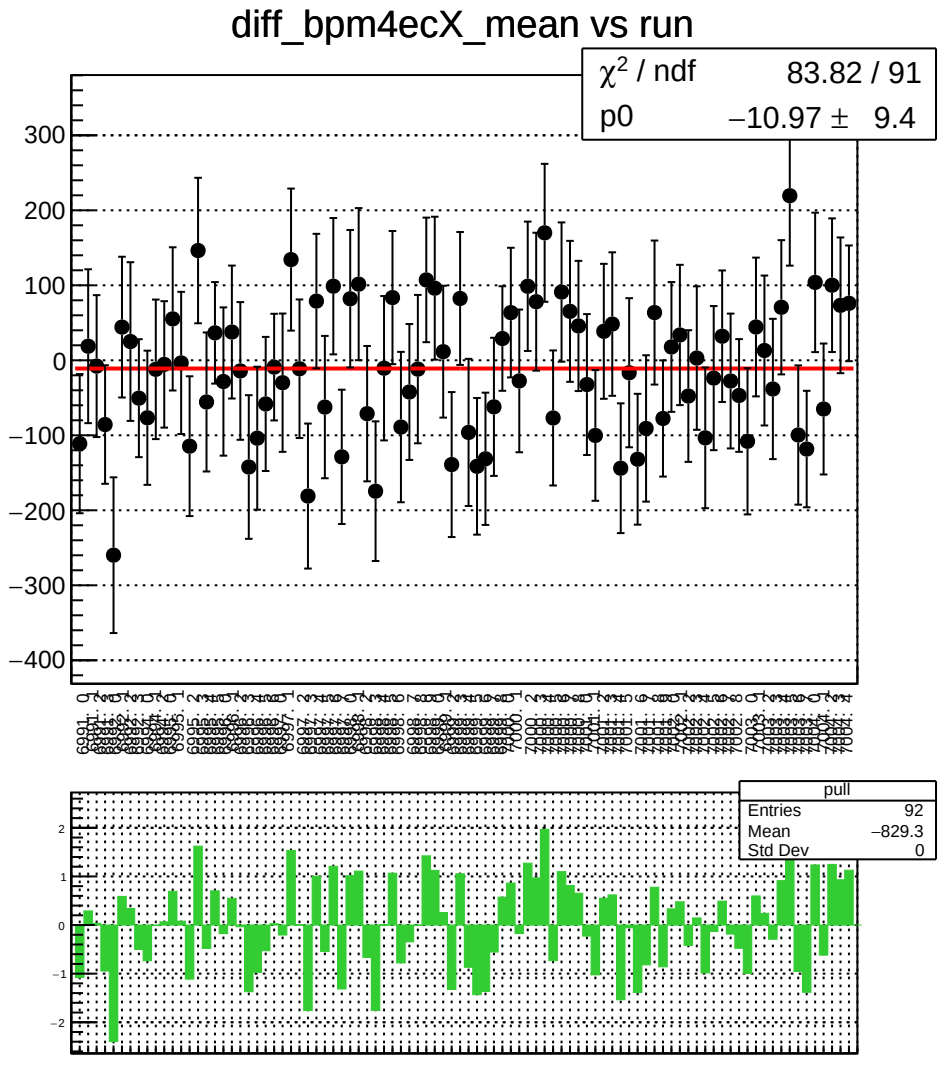

pull1D
Entries 92
Mean −0.003833
Std Dev 0.9509
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

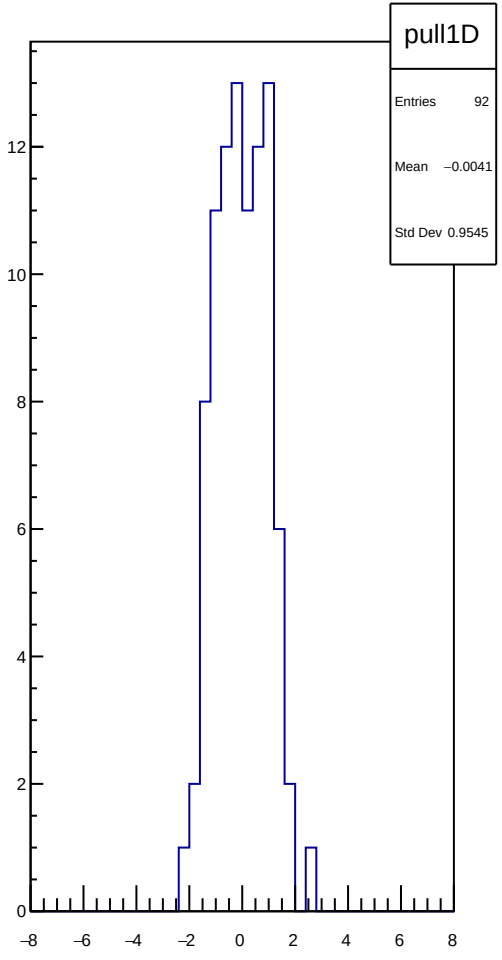

diff_bpm4acX_rms vs run
χ² / ndf 3474 / 91
p0 8901 ± 6.706
10000
9500
9000
8500
8000

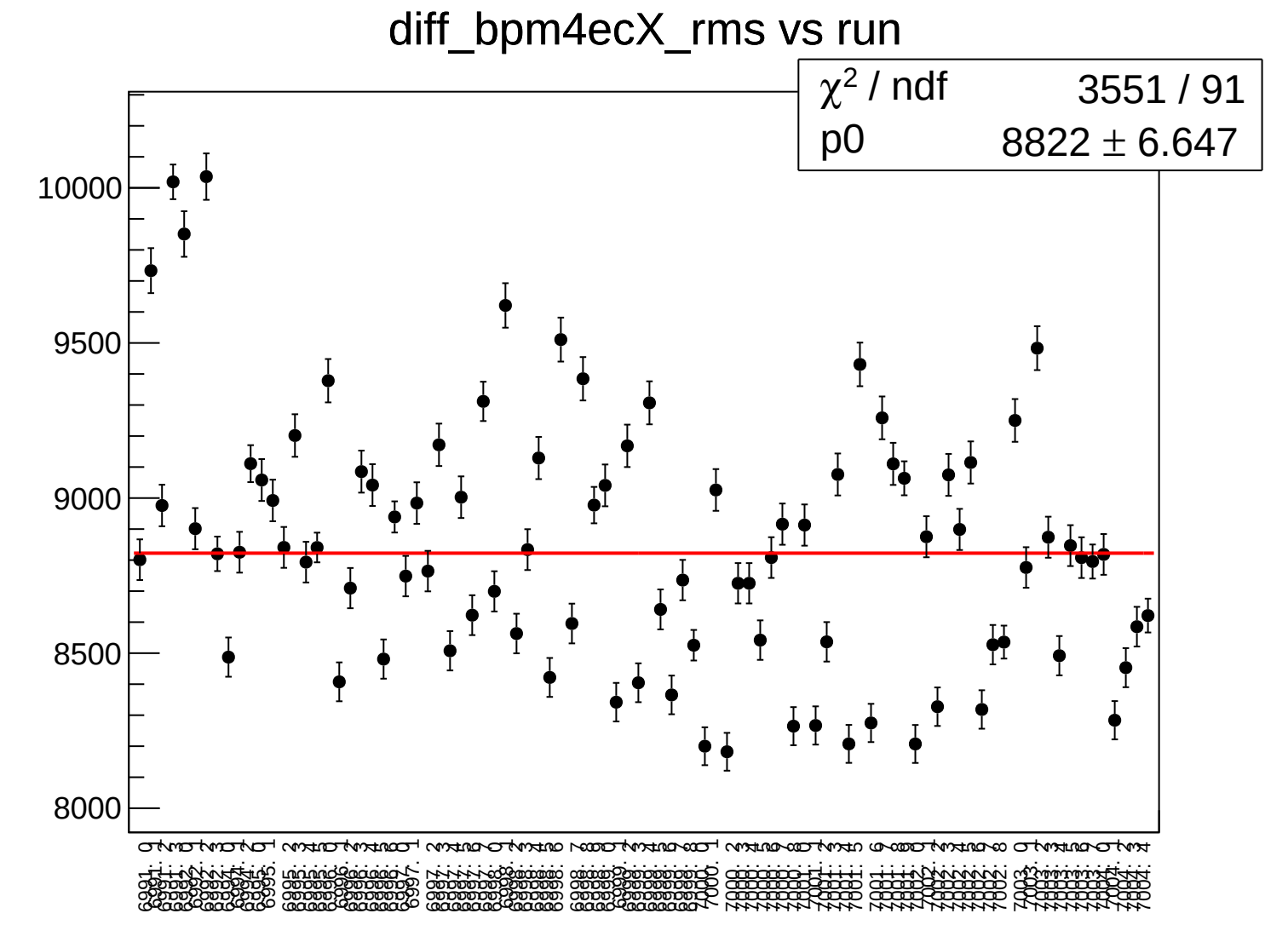

diff_bpm4acY_mean vs run
χ² / ndf 93.59 / 91
p0 4.037 ± 6.225
200
100
0
−100
−200
pull
Entries 92
Mean −319.6
Std Dev 0
2
1
0
−1
−2

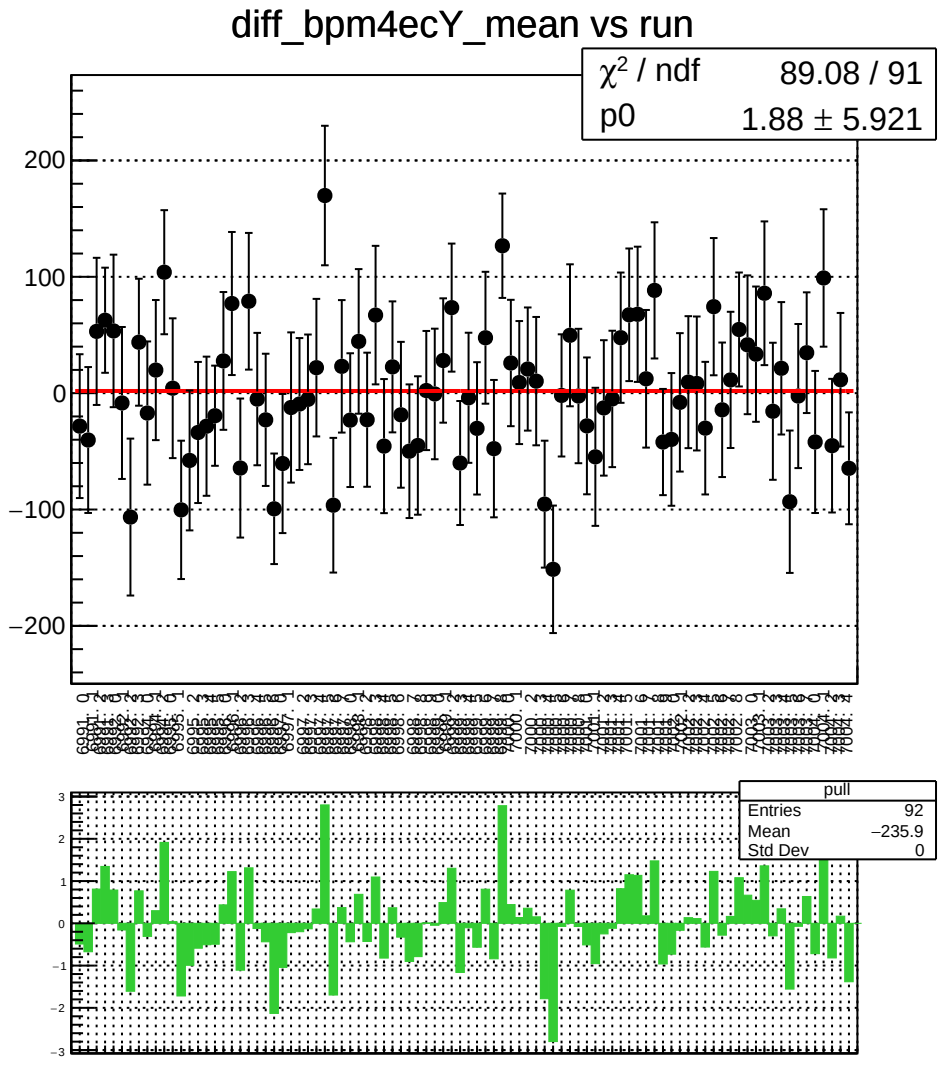

pull1D
Entries 92
Mean −0.004911
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

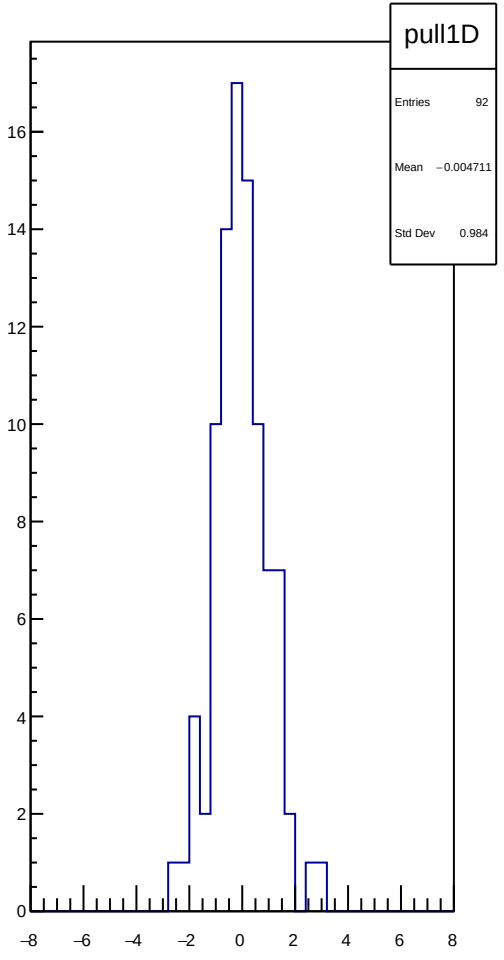

diff_bpm4acY_rms vs run
χ² / ndf 5205 / 91
p0 5839 ± 4.401
7000
6500
6000
5500
5000

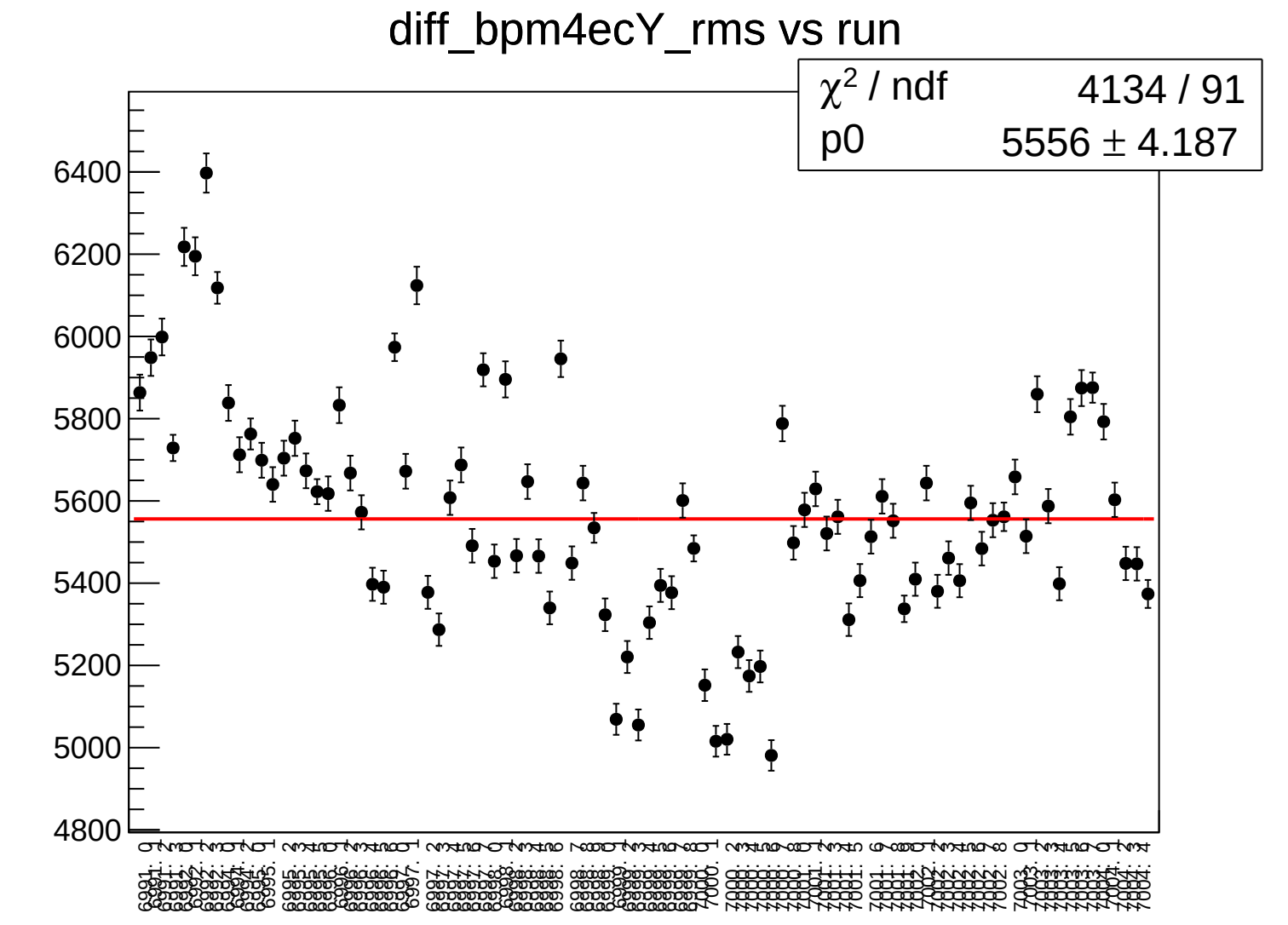

diff_bpm4ecX_mean vs run
χ² / ndf 83.82 / 91
p0 −10.97 ± 9.4
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −829.3
Std Dev 0
2
1
0
−1
−2

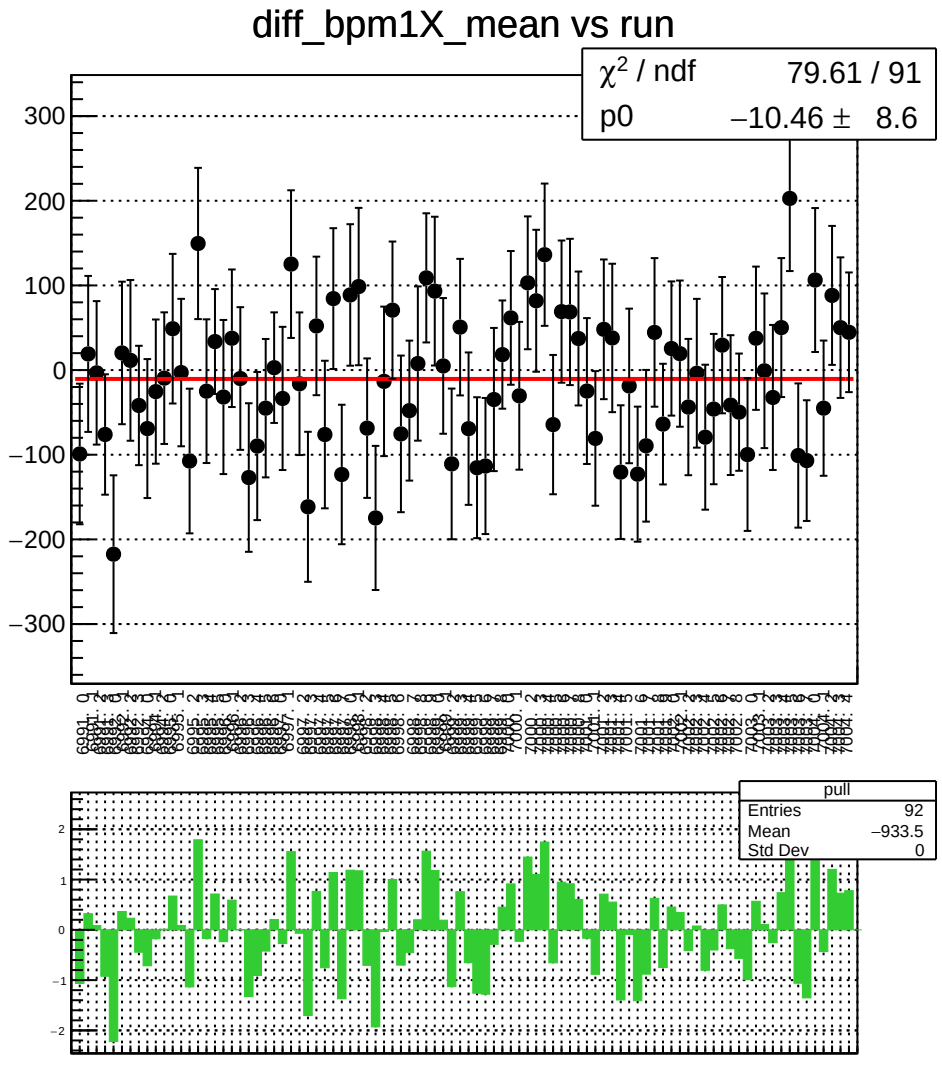

pull1D
Entries 92
Mean −0.0041
Std Dev 0.9545
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

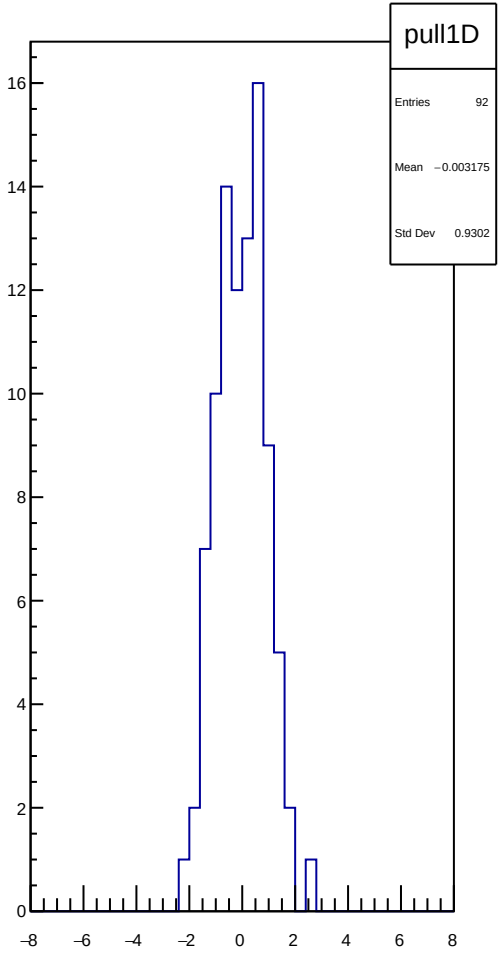

diff_bpm4ecX_rms vs run
χ² / ndf 3551 / 91
p0 8822 ± 6.647
10000
9500
9000
8500
8000

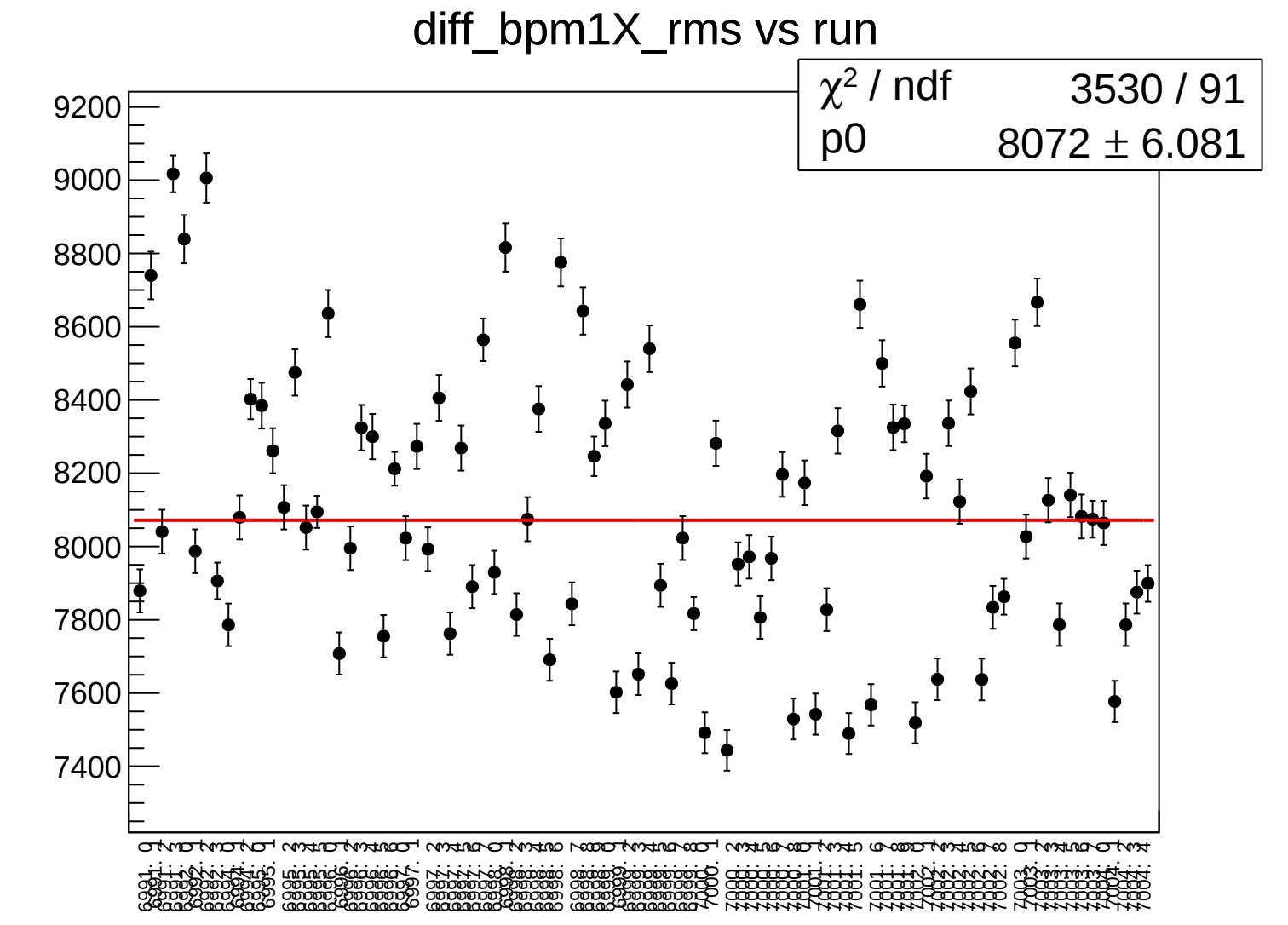

diff_bpm4ecY_mean vs run
χ² / ndf 89.08 / 91
p0 1.88 ± 5.921
200
100
0
−100
−200
pull
Entries 92
Mean −235.9
Std Dev 0
3
2
1
0
−1
−2
−3

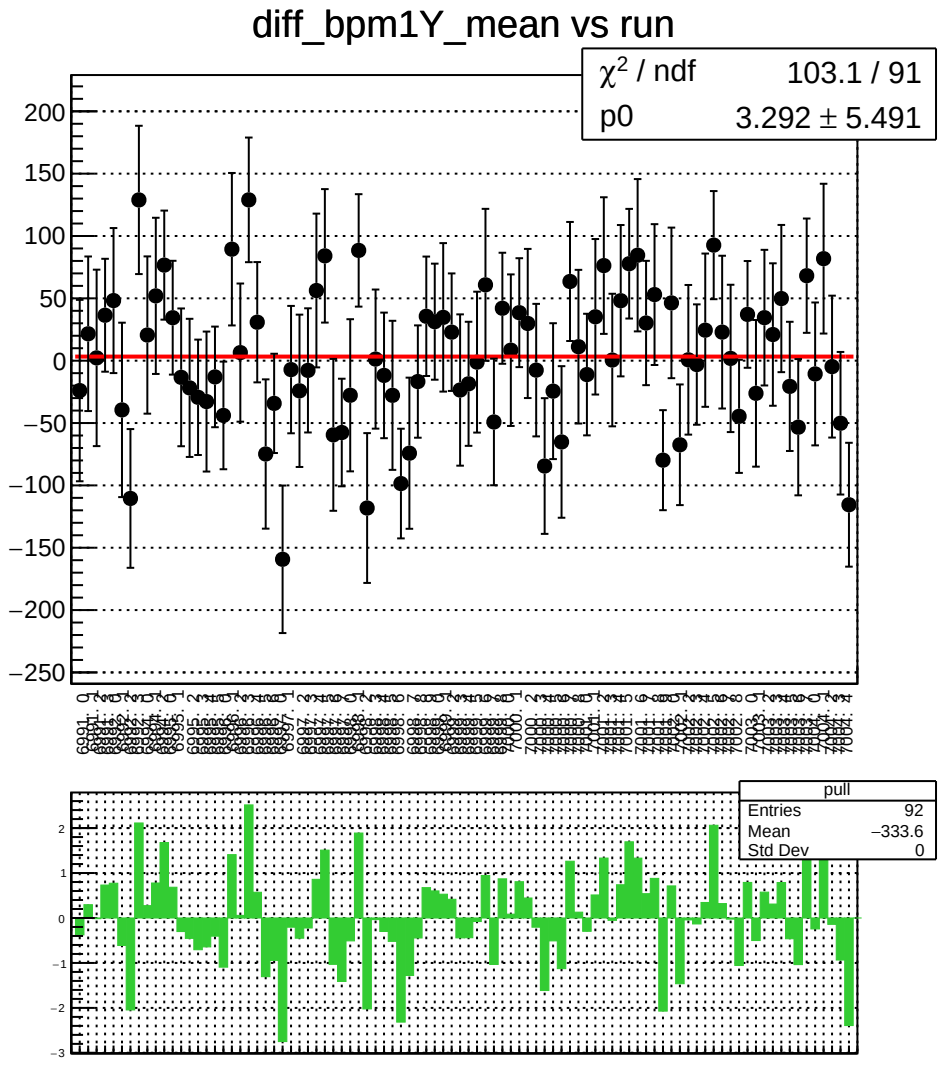

pull1D
Entries 92
Mean −0.004711
Std Dev 0.984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

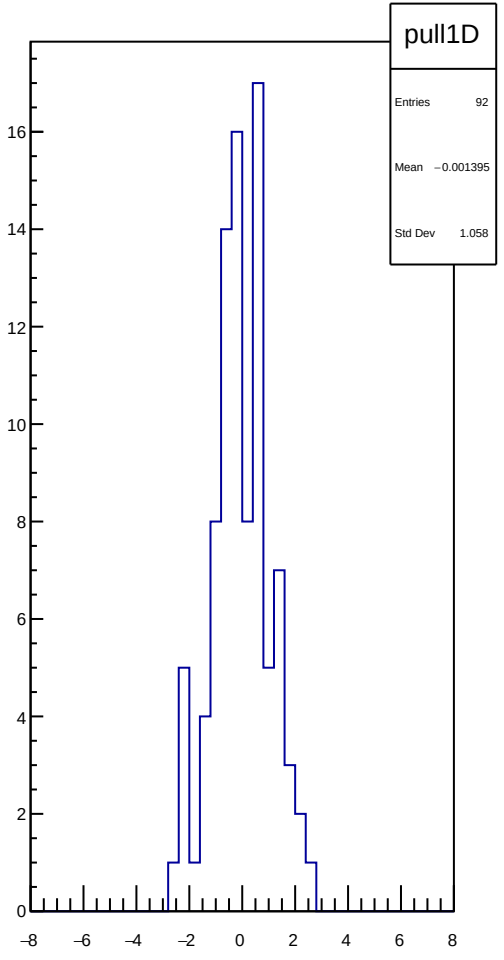

diff_bpm4ecY_rms vs run
χ² / ndf 4134 / 91
p0 5556 ± 4.187
6400
6200
6000
5800
5600
5400
5200
5000
4800

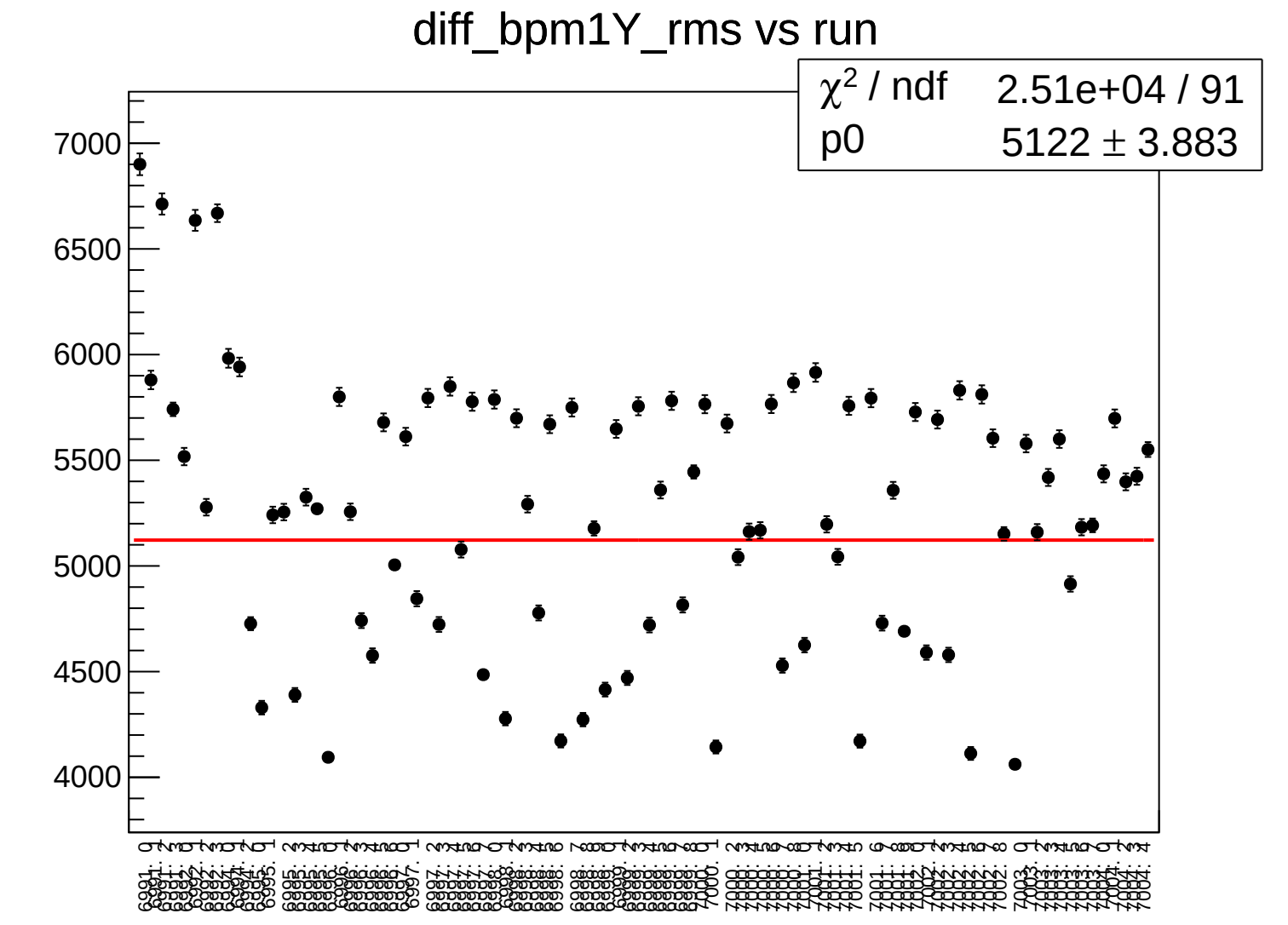

diff_bpm1X_mean vs run
χ² / ndf 79.61 / 91
p0 −10.46 ± 8.6
pull
Entries 92
Mean −933.5
Std Dev 0

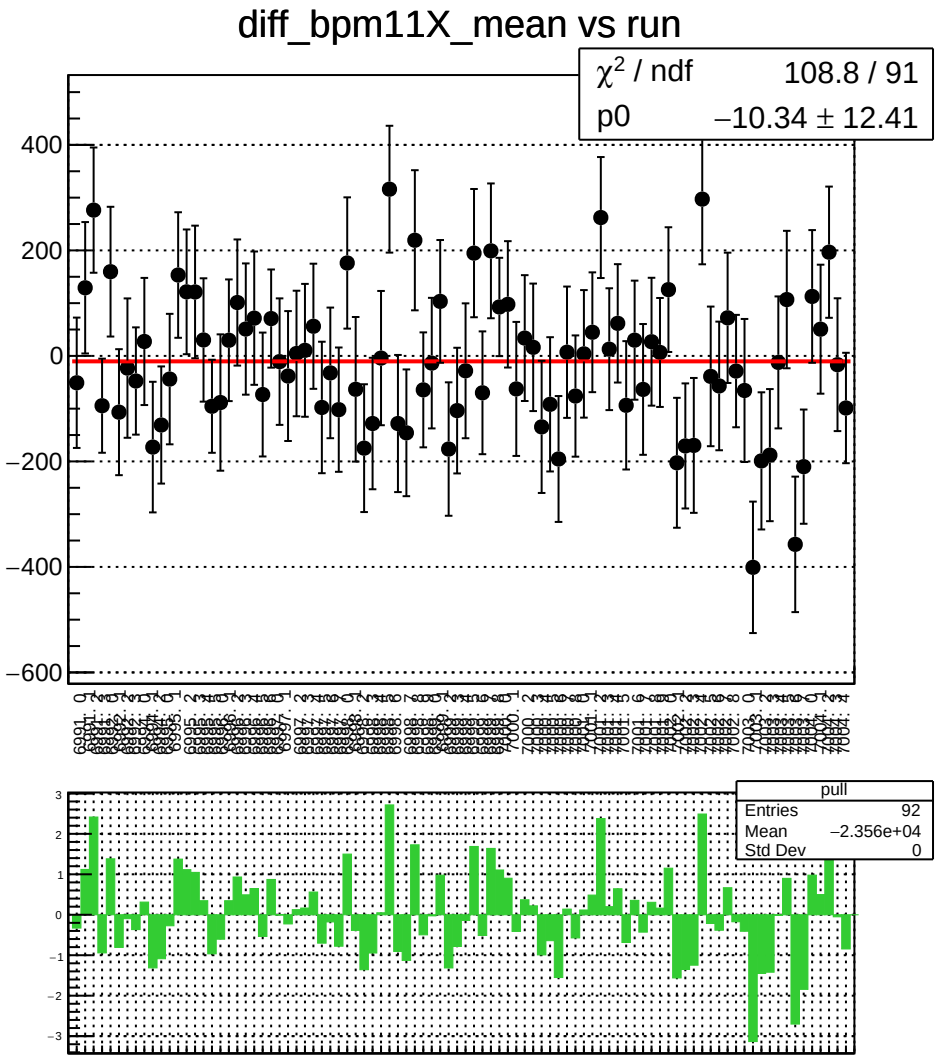

pull1D
Entries 92
Mean −0.003175
Std Dev 0.9302

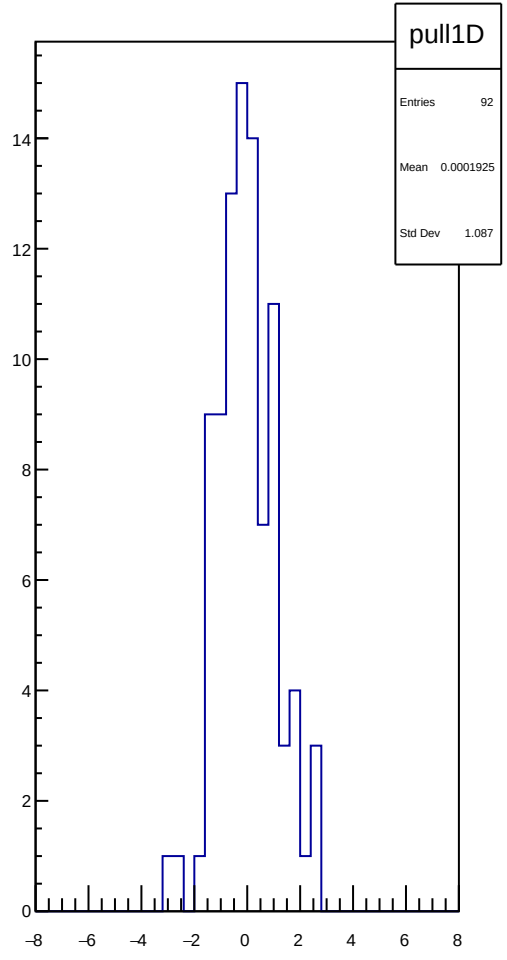

diff_bpm1X_rms vs run
χ² / ndf 3530 / 91
p0 8072 ± 6.081
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

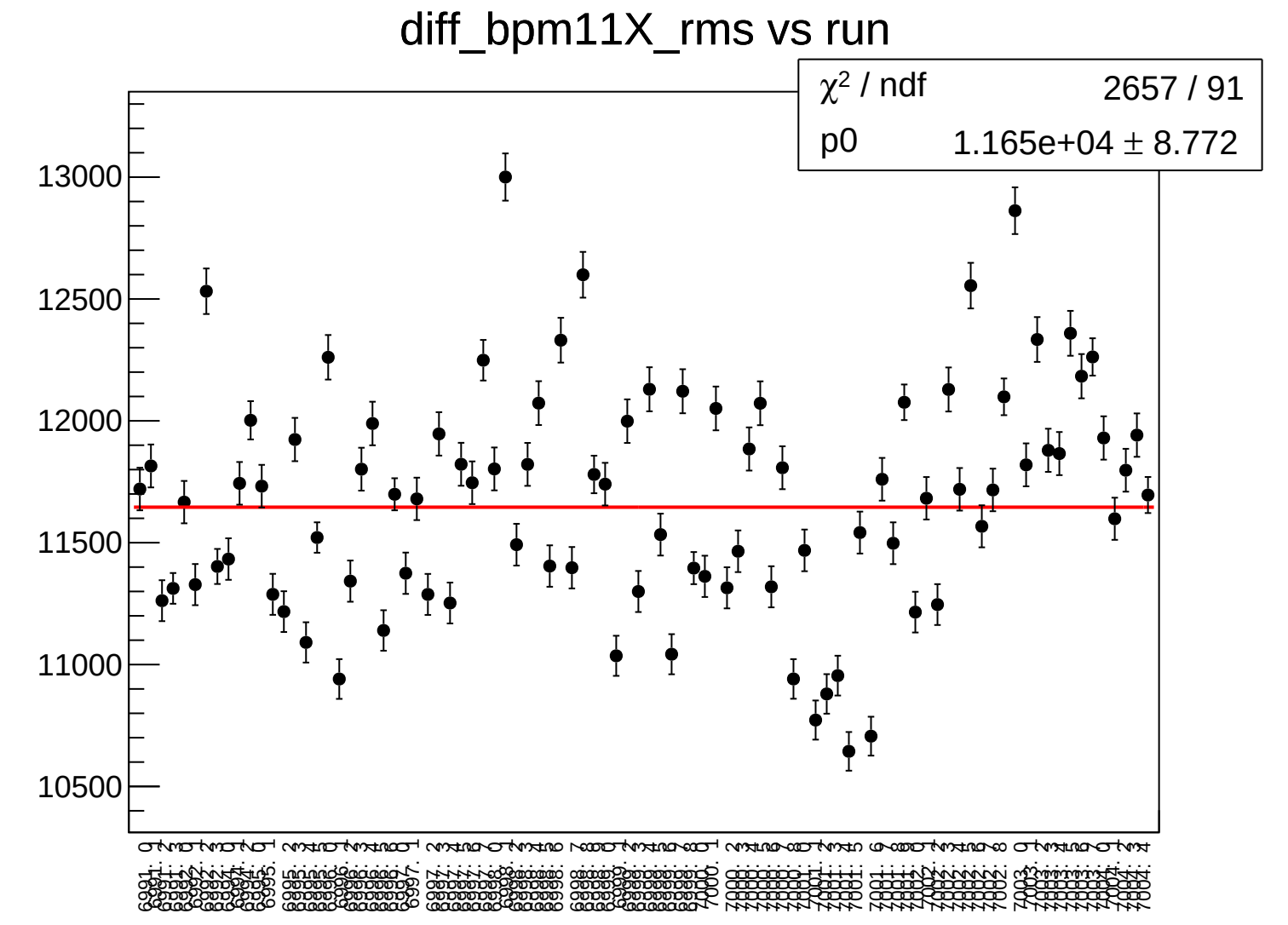

diff_bpm1Y_mean vs run
χ² / ndf 103.1 / 91
p0 3.292 ± 5.491
pull
Entries 92
Mean −333.6
Std Dev 0

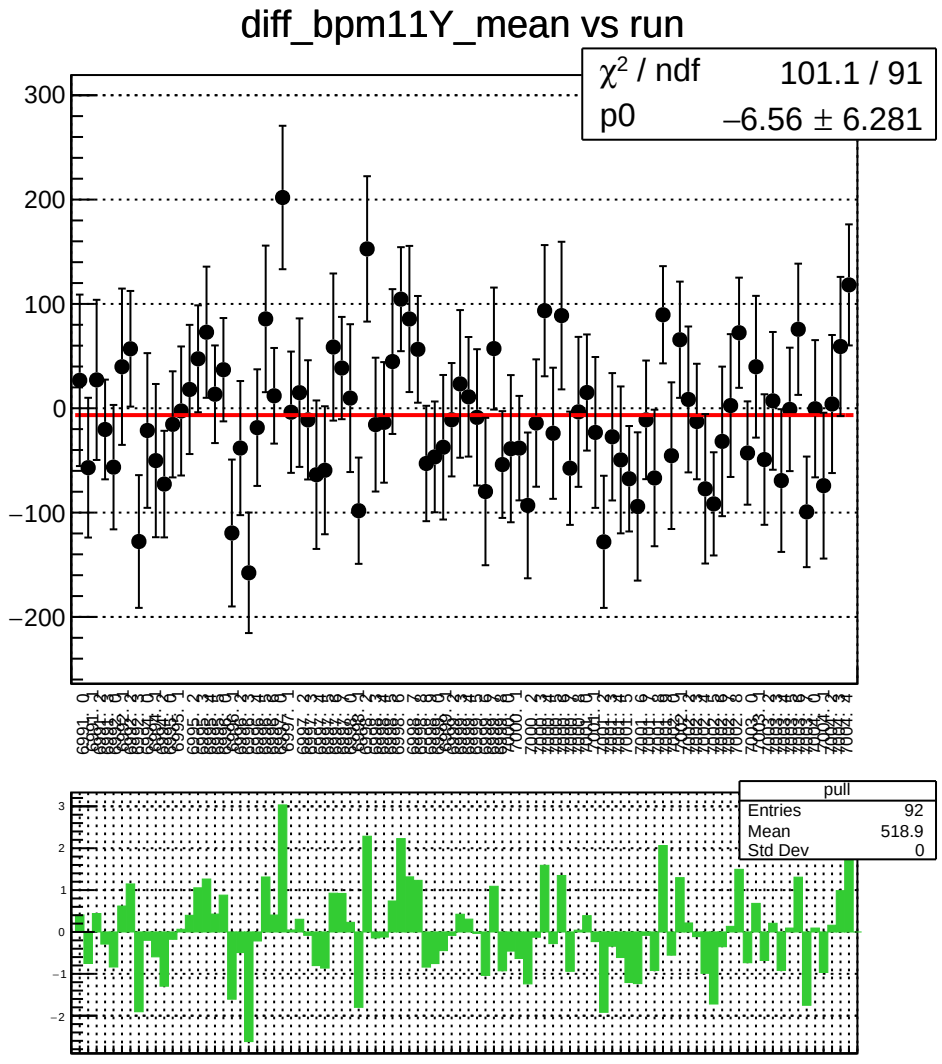

pull1D
Entries 92
Mean −0.001395
Std Dev 1.058

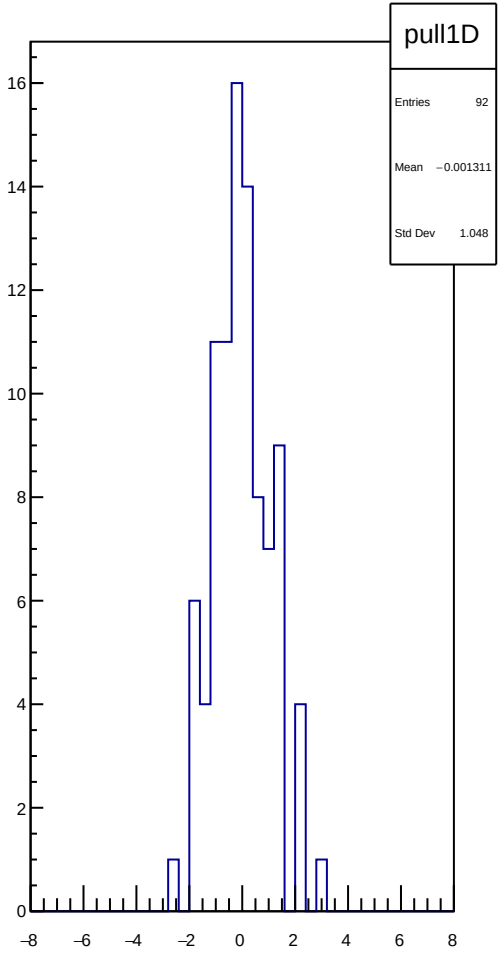

diff_bpm1Y_rms vs run
χ² / ndf 2.51e+04 / 91
p0 5122 ± 3.883
7000
6500
6000
5500
5000
4500
4000

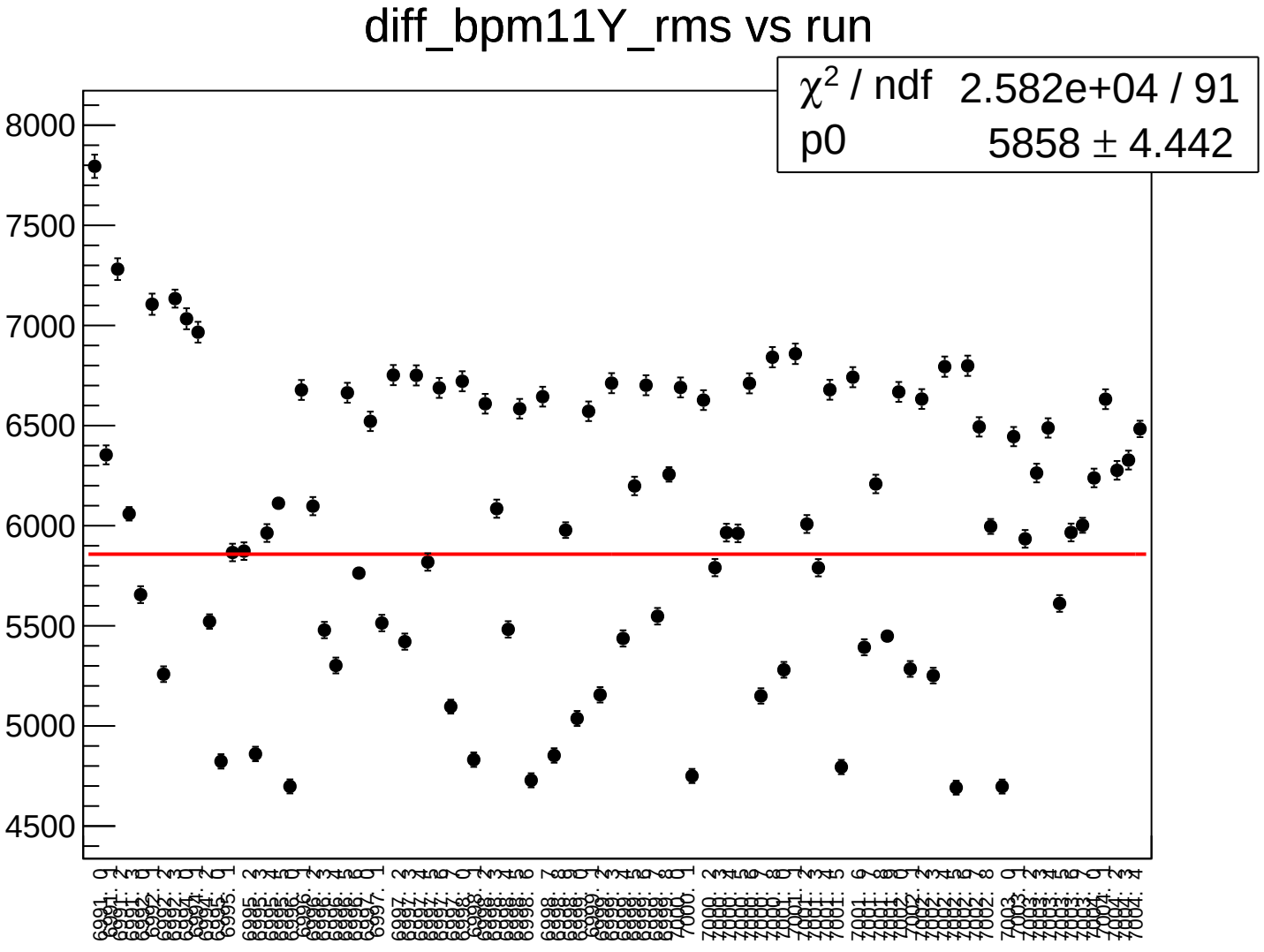

diff_bpm11X_mean vs run
χ² / ndf 108.8 / 91
p0 −10.34 ± 12.41
400
200
0
−200
−400
−600
pull
Entries 92
Mean −2.356e+04
Std Dev 0
3
2
1
0
−1
−2
−3

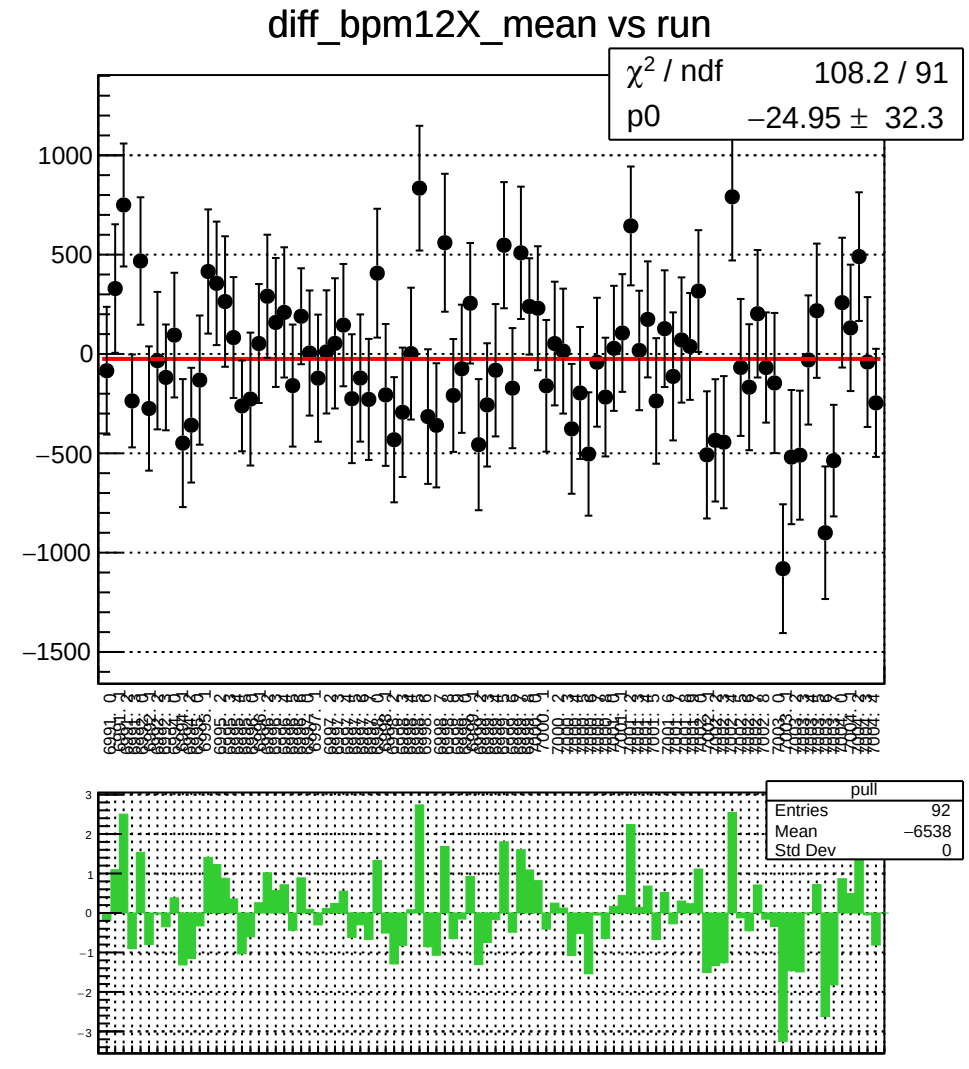

pull1D
Entries 92
Mean 0.0001925
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

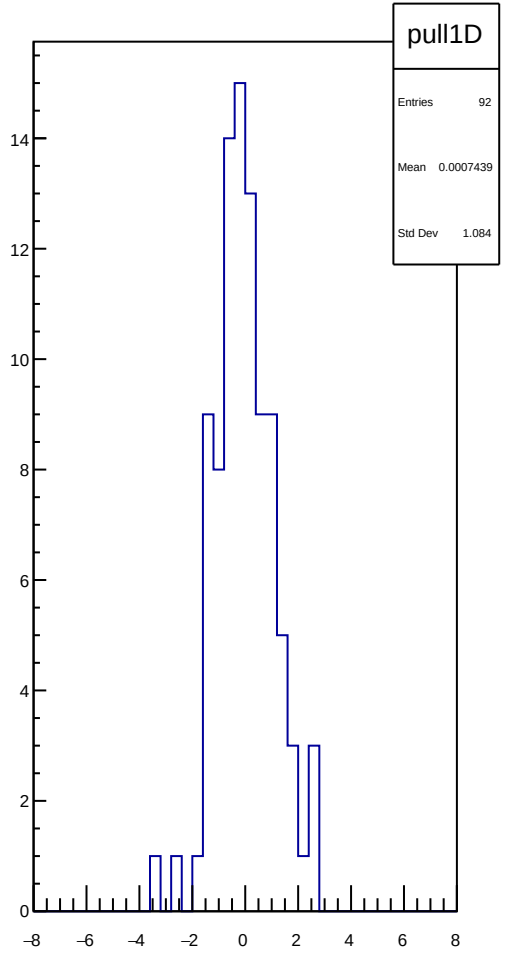

diff_bpm11X_rms vs run
χ² / ndf 2657 / 91
p0 1.165e+04 ± 8.772
13000
12500
12000
11500
11000
10500

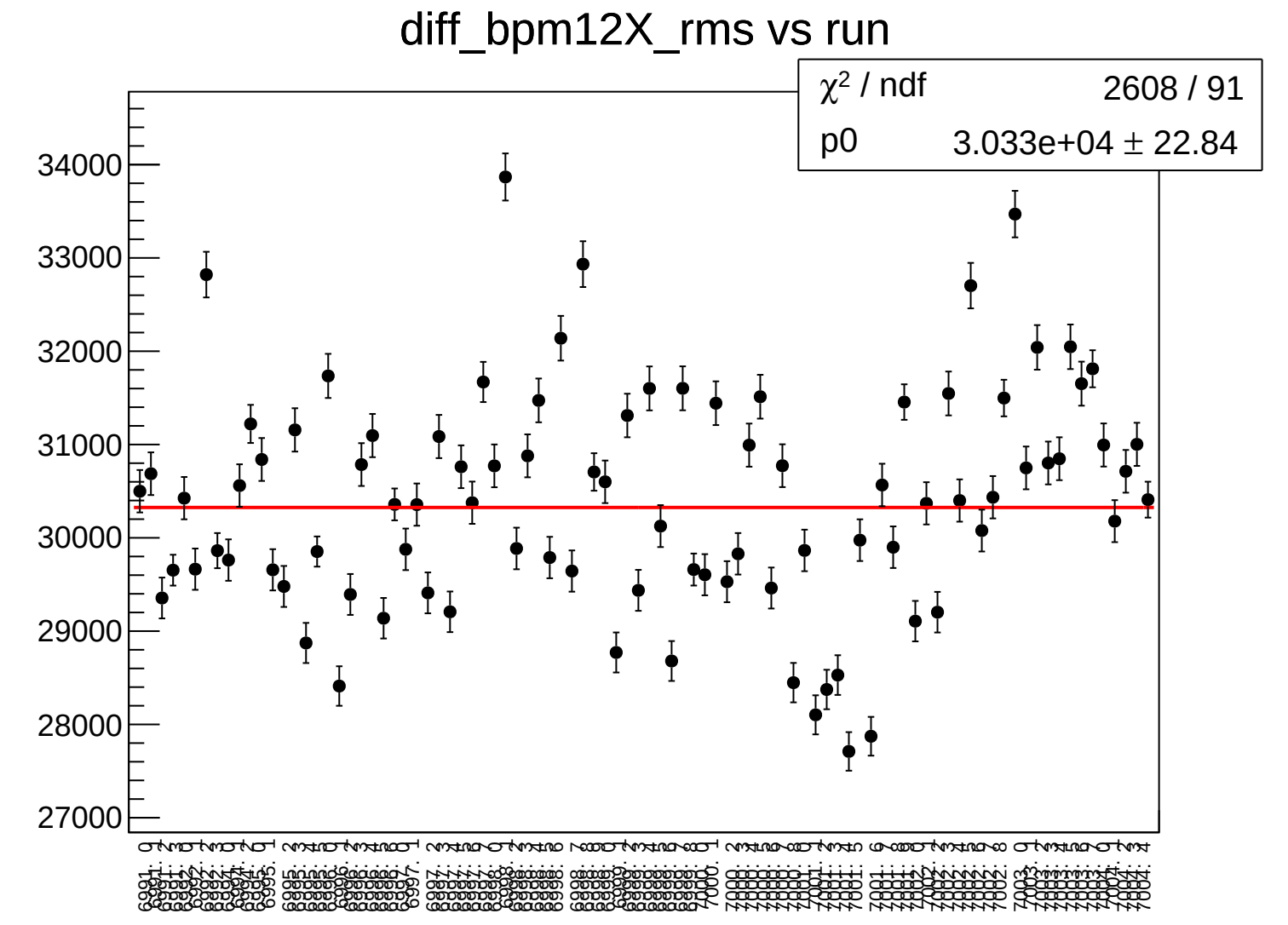

diff_bpm11Y_mean vs run
χ² / ndf 101.1 / 91
p0 −6.56 ± 6.281
pull
Entries 92
Mean 518.9
Std Dev 0

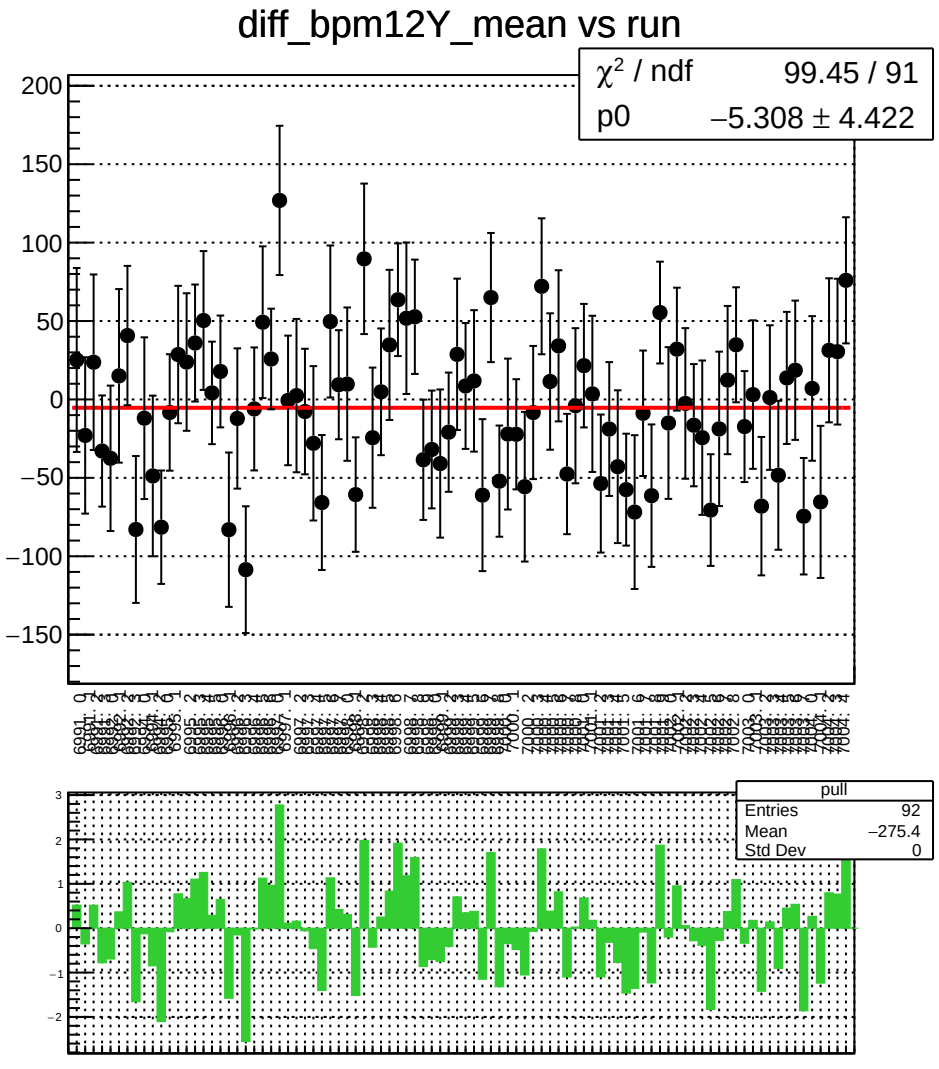

pull1D
Entries 92
Mean −0.001311
Std Dev 1.048

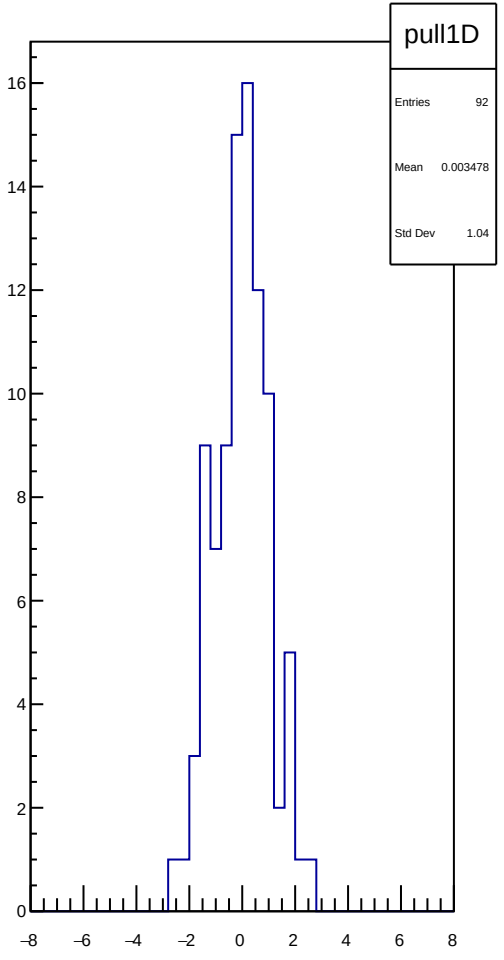

diff_bpm11Y_rms vs run
χ² / ndf 2.582e+04 / 91
p0 5858 ± 4.442
8000
7500
7000
6500
6000
5500
5000
4500

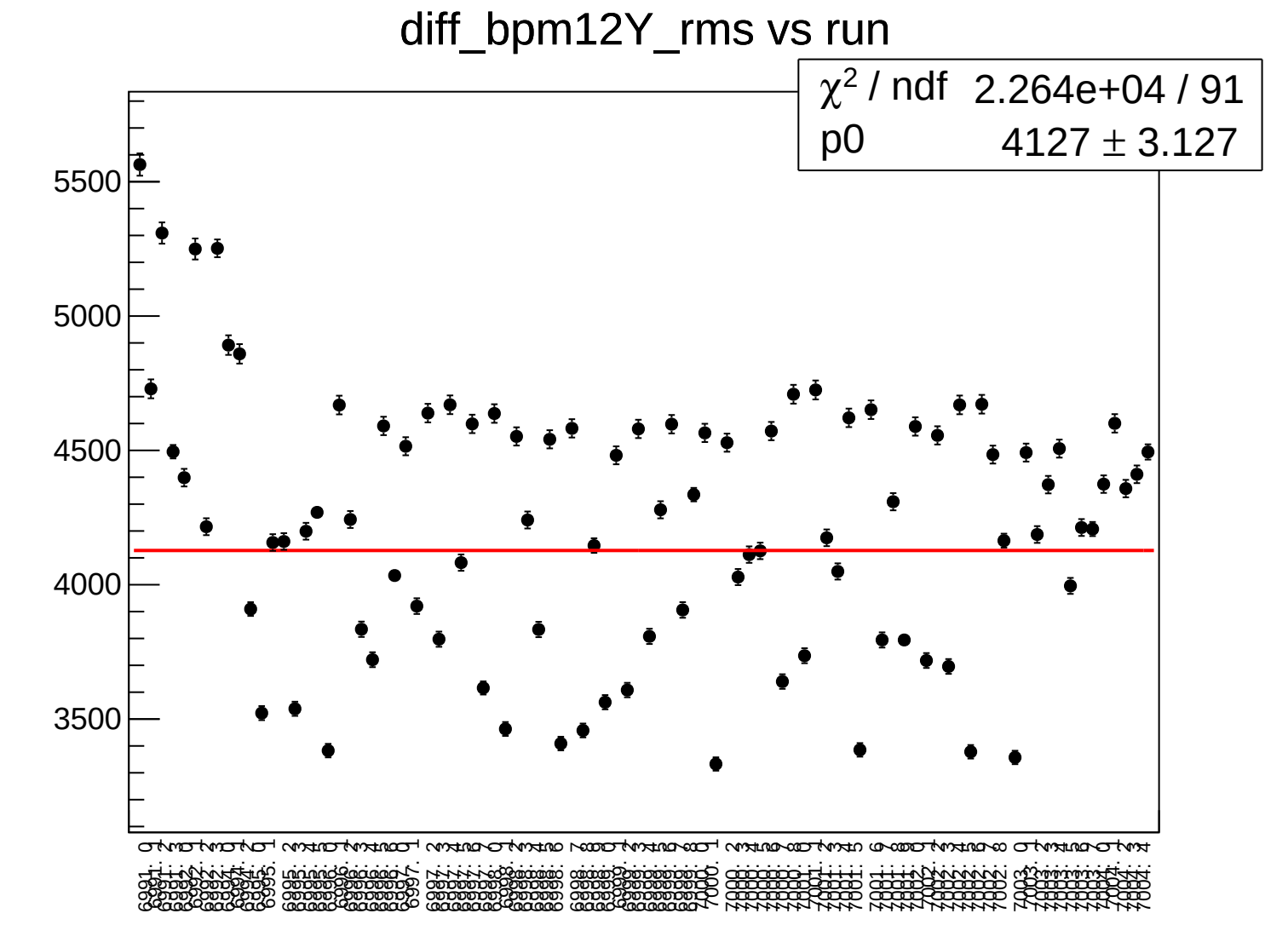

diff_bpm12X_mean vs run
χ² / ndf 108.2 / 91
p0 −24.95 ± 32.3
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −6538
Std Dev 0
3
2
1
0
−1
−2
−3

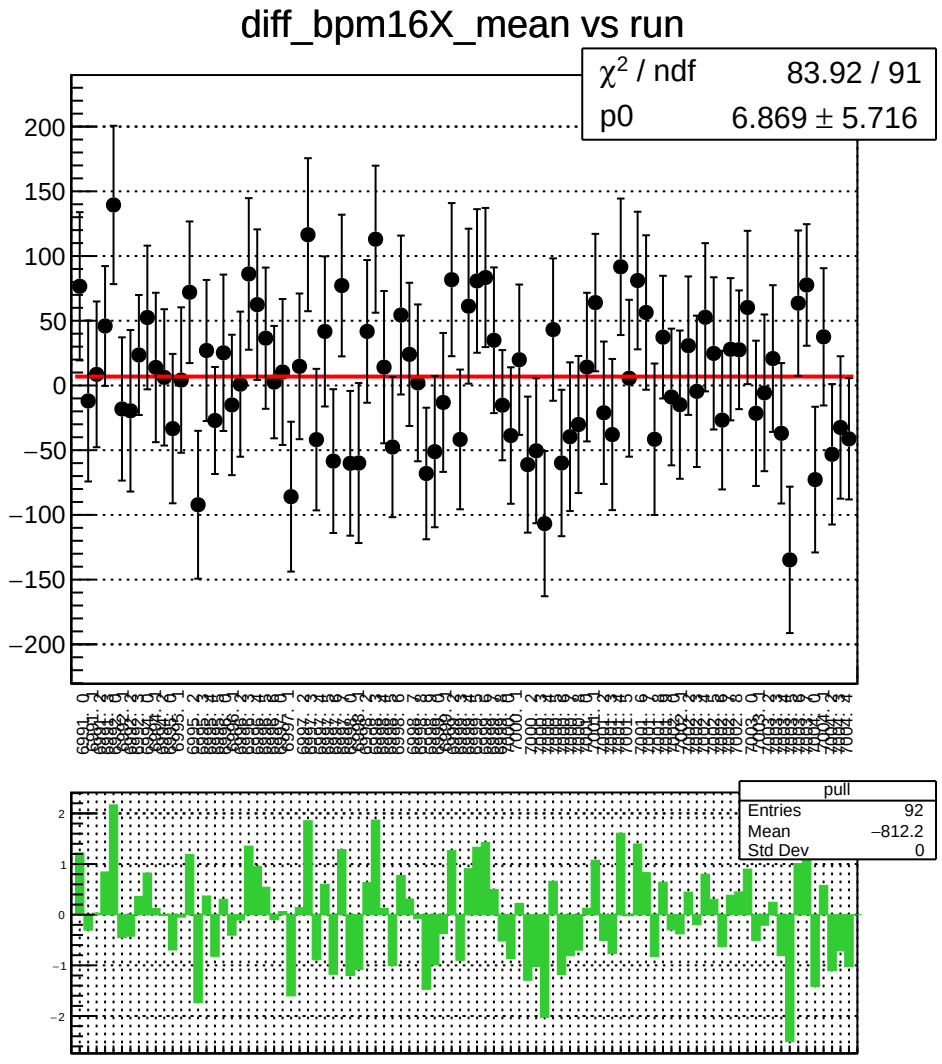

pull1D
Entries 92
Mean 0.0007439
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

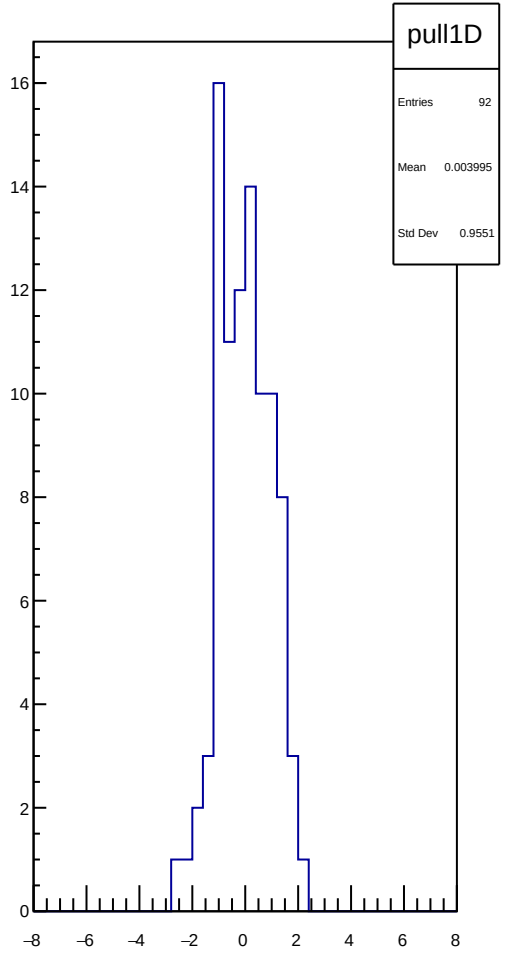

diff_bpm12X_rms vs run
χ² / ndf 2608 / 91
p0 3.033e+04 ± 22.84
34000
33000
32000
31000
30000
29000
28000
27000

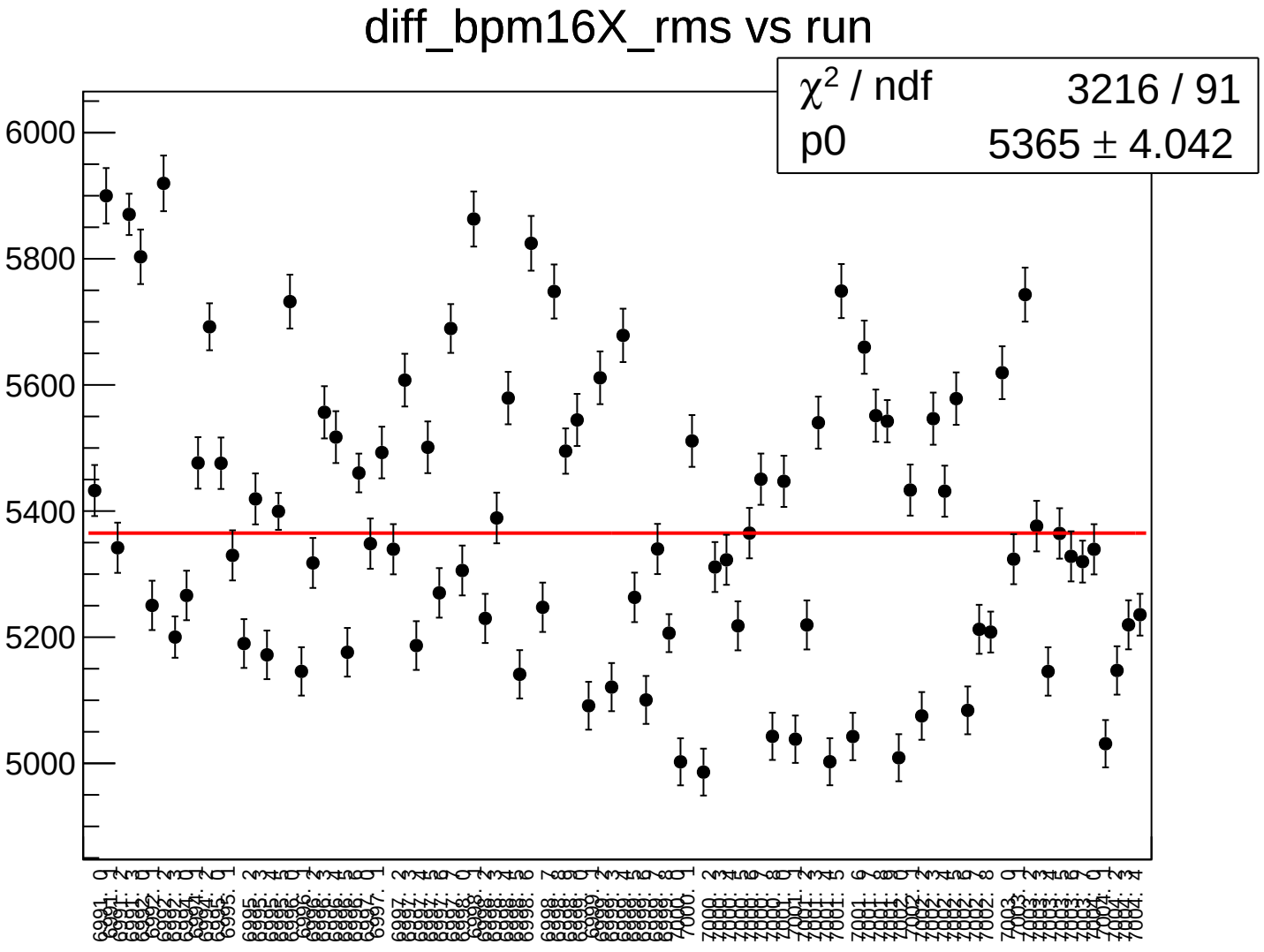

diff_bpm12Y_mean vs run
χ² / ndf 99.45 / 91
p0 −5.308 ± 4.422
pull
Entries 92
Mean −275.4
Std Dev 0

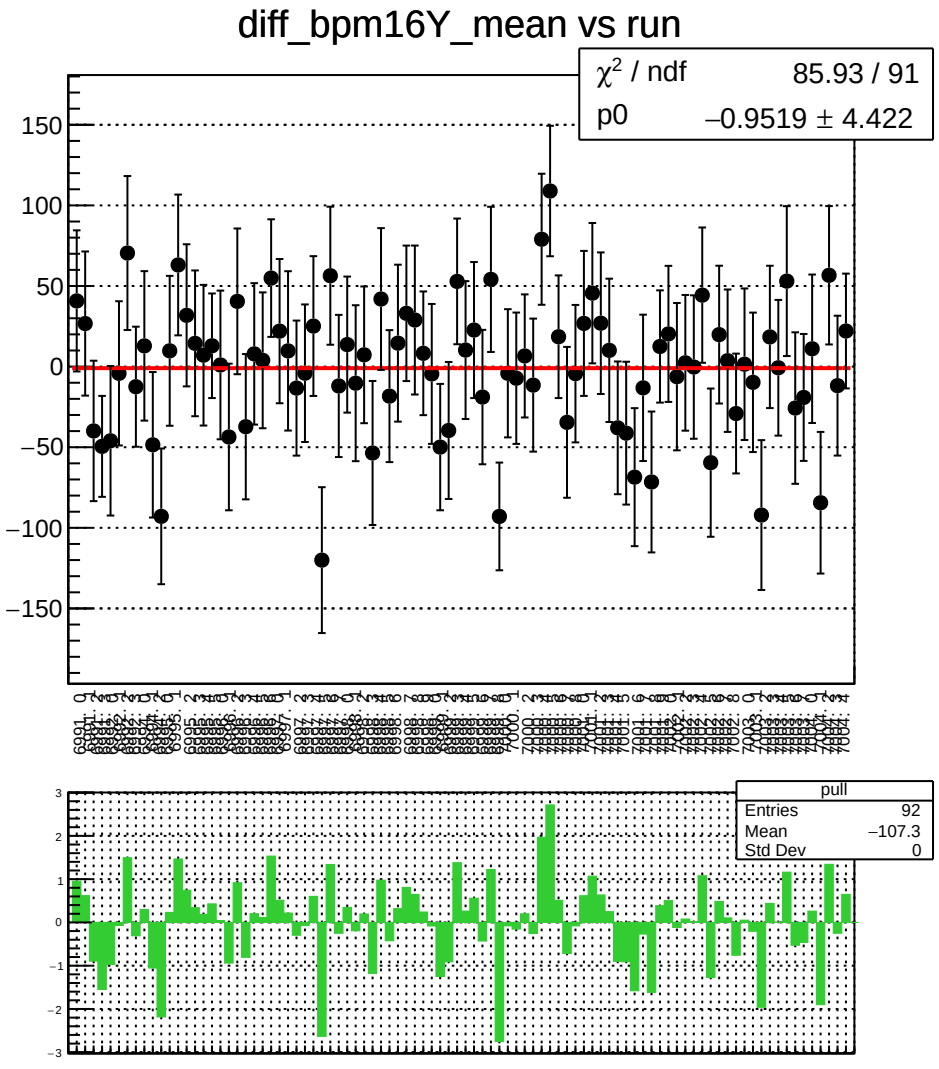

pull1D
Entries 92
Mean 0.003478
Std Dev 1.04

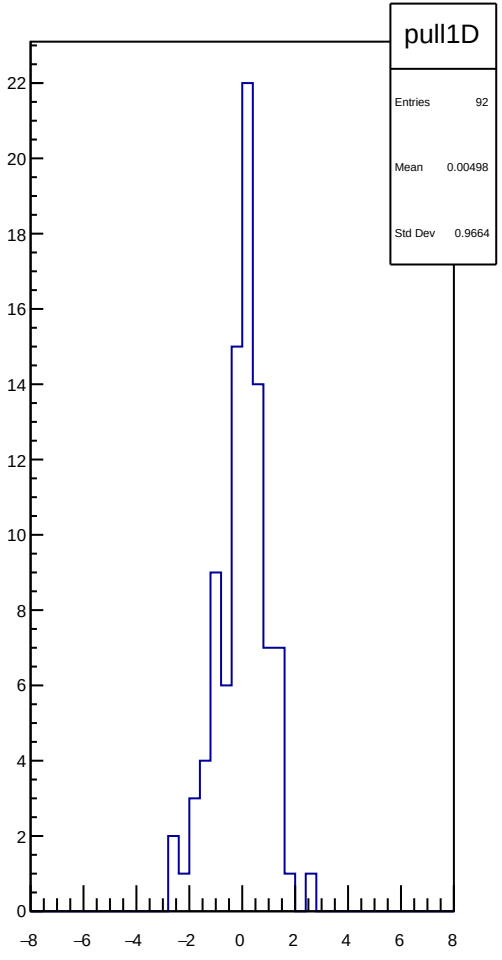

diff_bpm12Y_rms vs run
χ² / ndf 2.264e+04 / 91
p0 4127 ± 3.127
5500
5000
4500
4000
3500

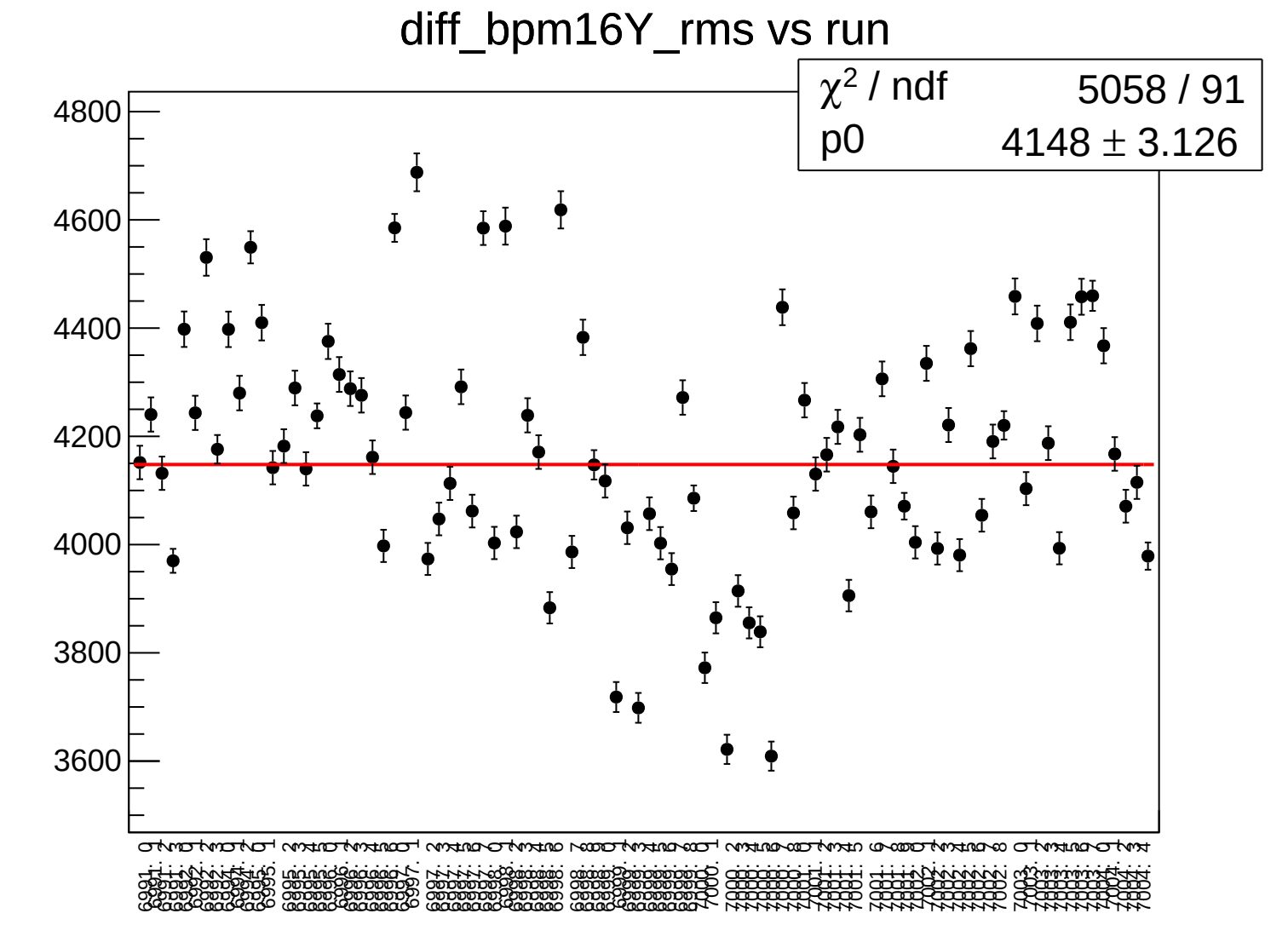

diff_bpm16X_mean vs run
χ^2 / ndf 83.92 / 91
p0 6.869 ± 5.716
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −812.2
Std Dev 0
2
1
0
−1
−2

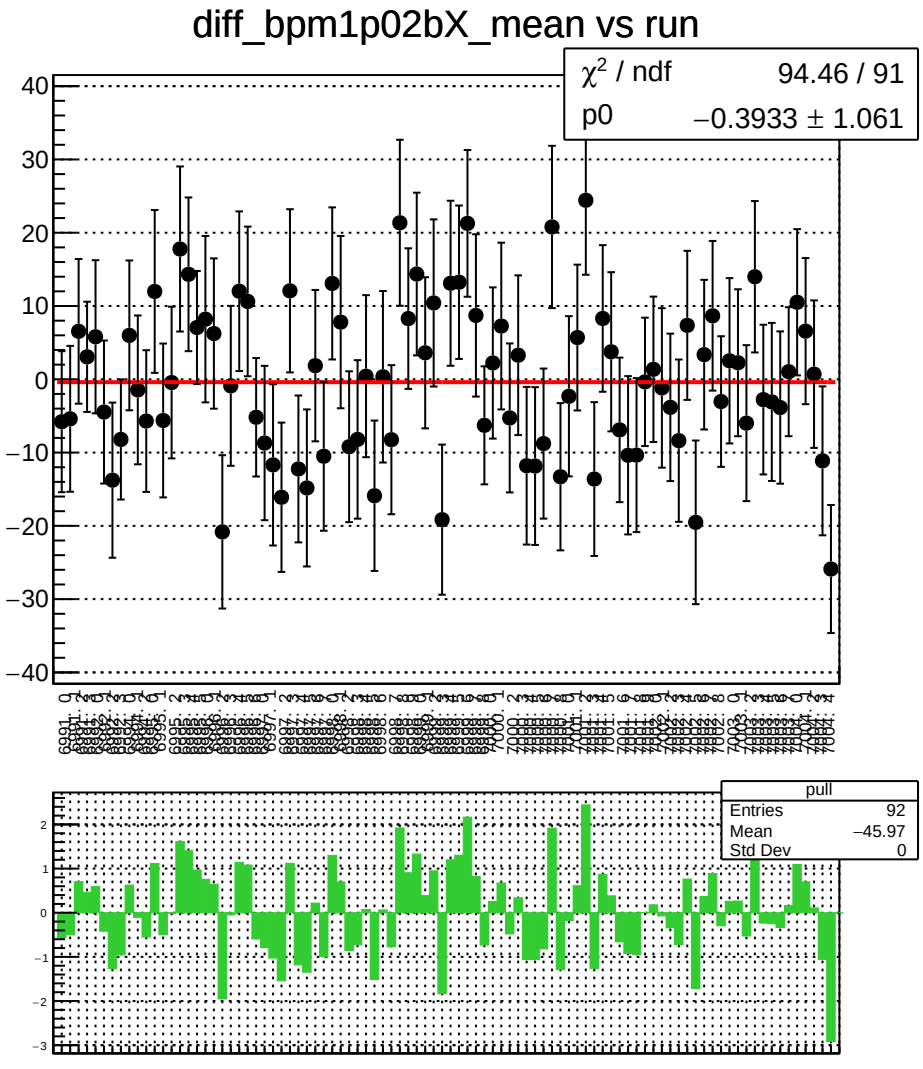

pull1D
Entries 92
Mean 0.003995
Std Dev 0.9551
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

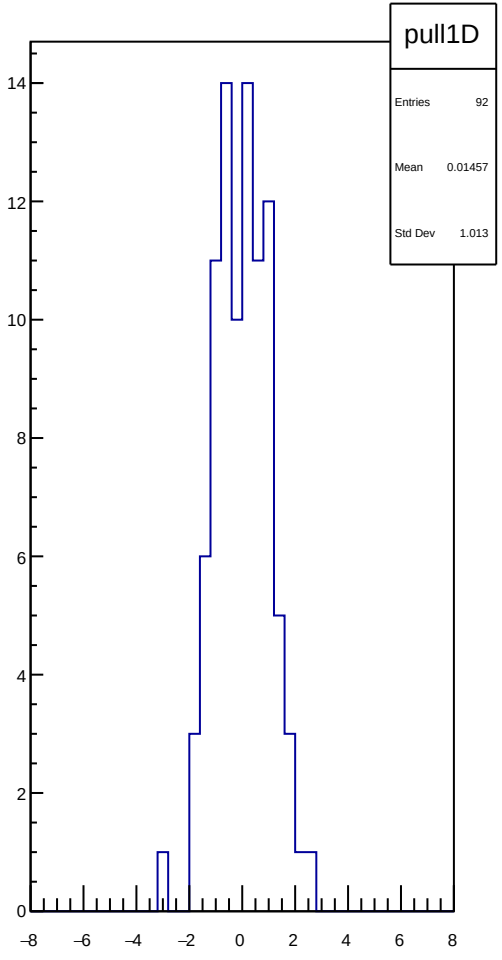

diff_bpm16X_rms vs run
χ^2 / ndf 3216 / 91
p0 5365 ± 4.042
6000
5800
5600
5400
5200
5000

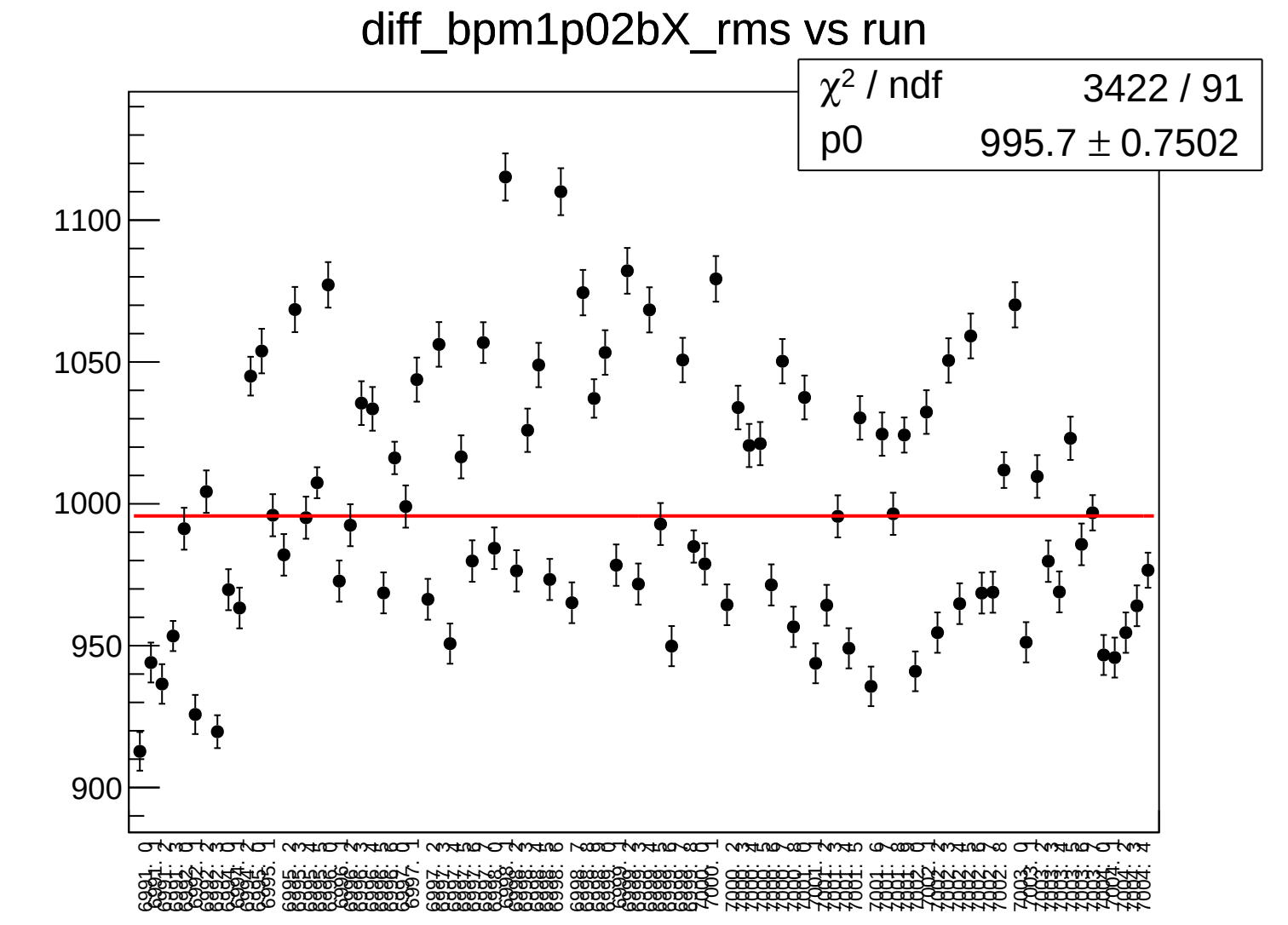

diff_bpm16Y_mean vs run
χ² / ndf 85.93 / 91
p0 −0.9519 ± 4.422
pull
Entries 92
Mean −107.3
Std Dev 0

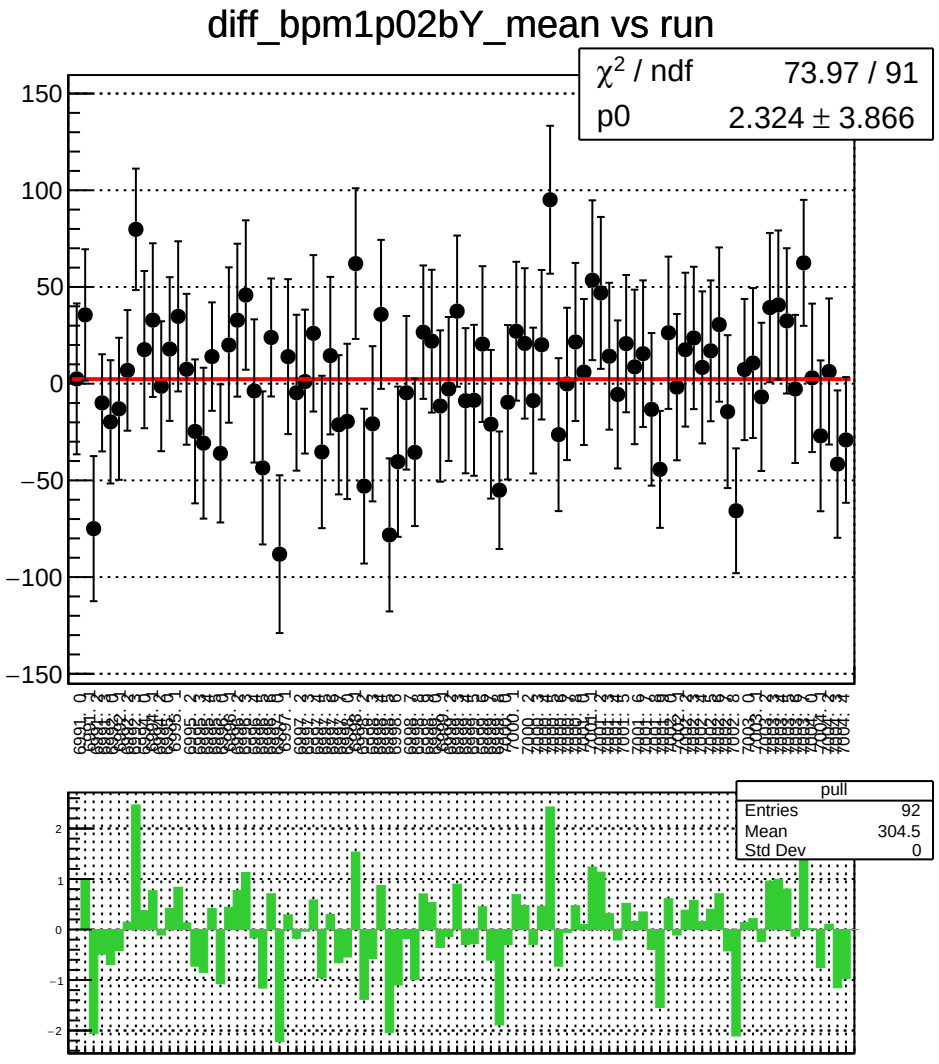

pull1D
Entries 92
Mean 0.00498
Std Dev 0.9664

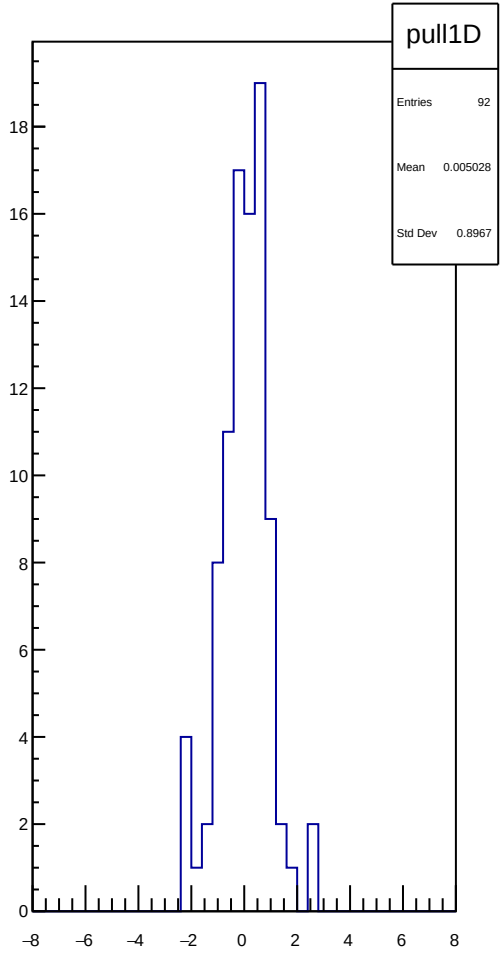

diff_bpm16Y_rms vs run
χ² / ndf 5058 / 91
p0 4148 ± 3.126
4800
4600
4400
4200
4000
3800
3600

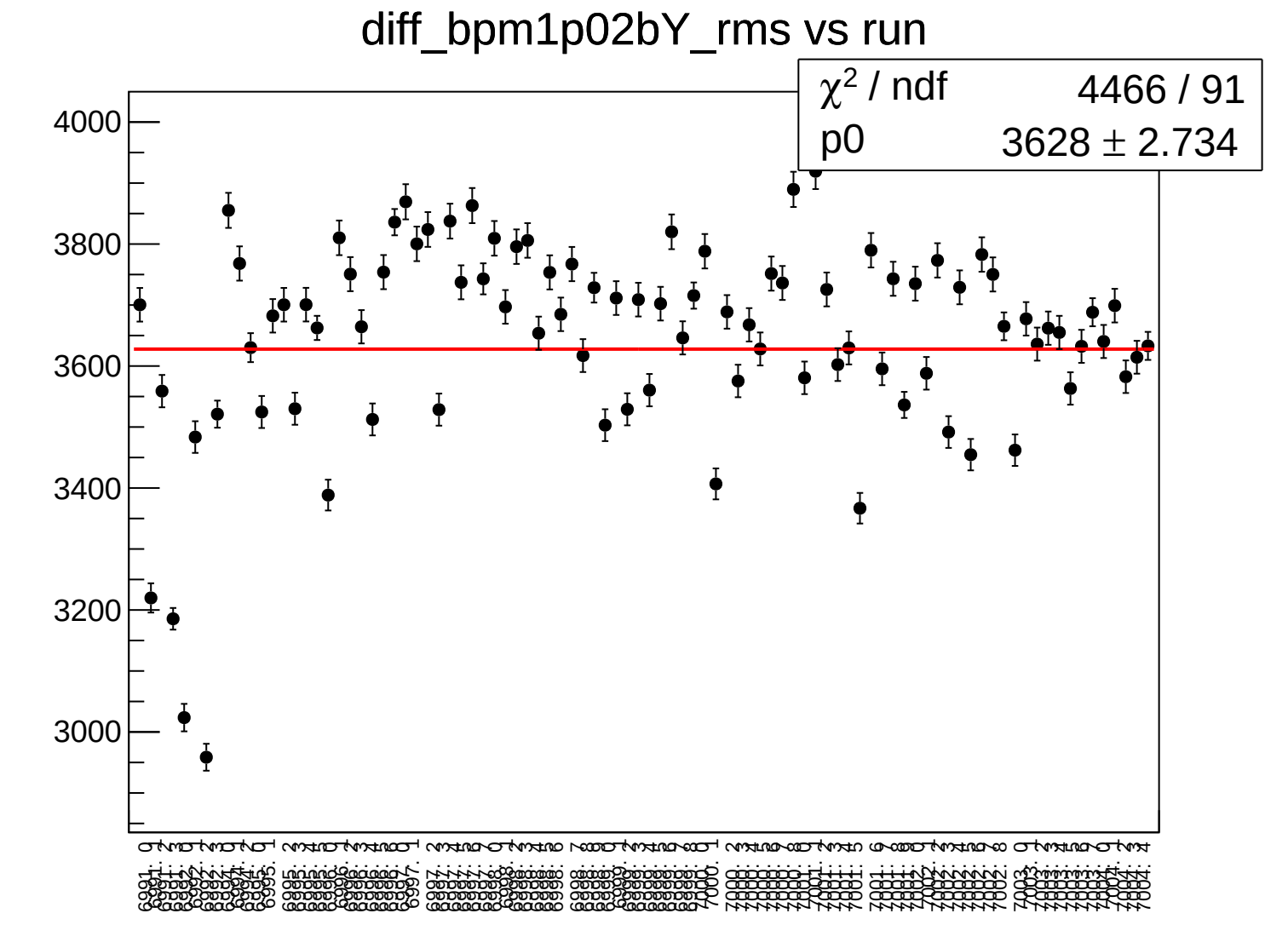

diff_bpm1p02bX_mean vs run
χ² / ndf 94.46 / 91
p0 −0.3933 ± 1.061
pull
Entries 92
Mean −45.97
Std Dev 0

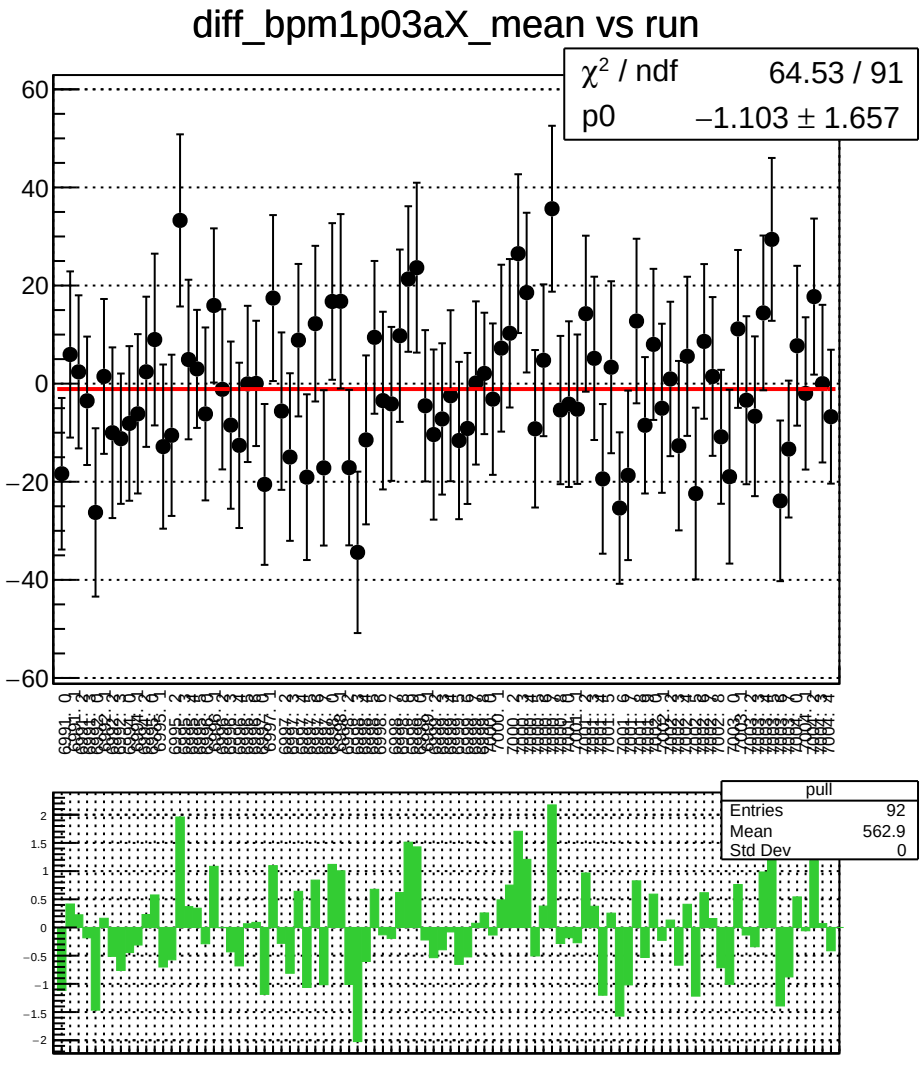

pull1D
Entries 92
Mean 0.01457
Std Dev 1.013

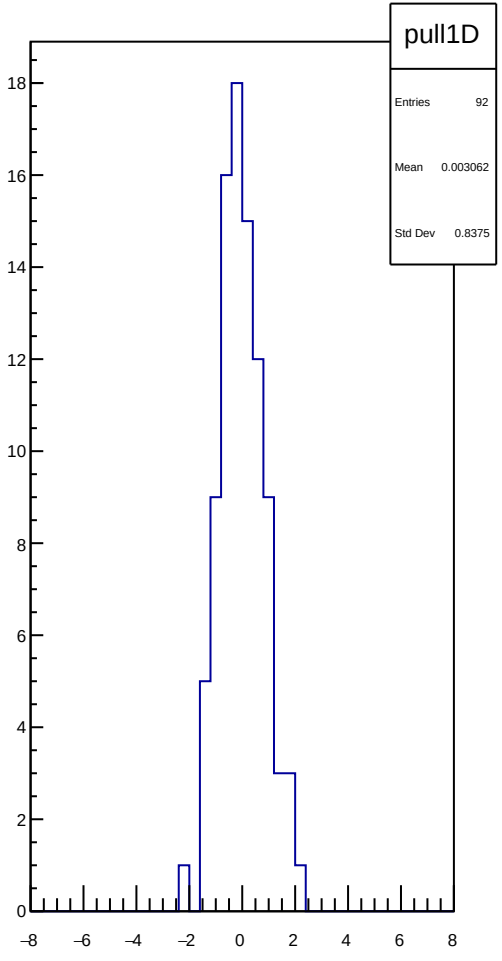

diff_bpm1p02bX_rms vs run
χ² / ndf 3422 / 91
p0 995.7 ± 0.7502
1100
1050
1000
950
900

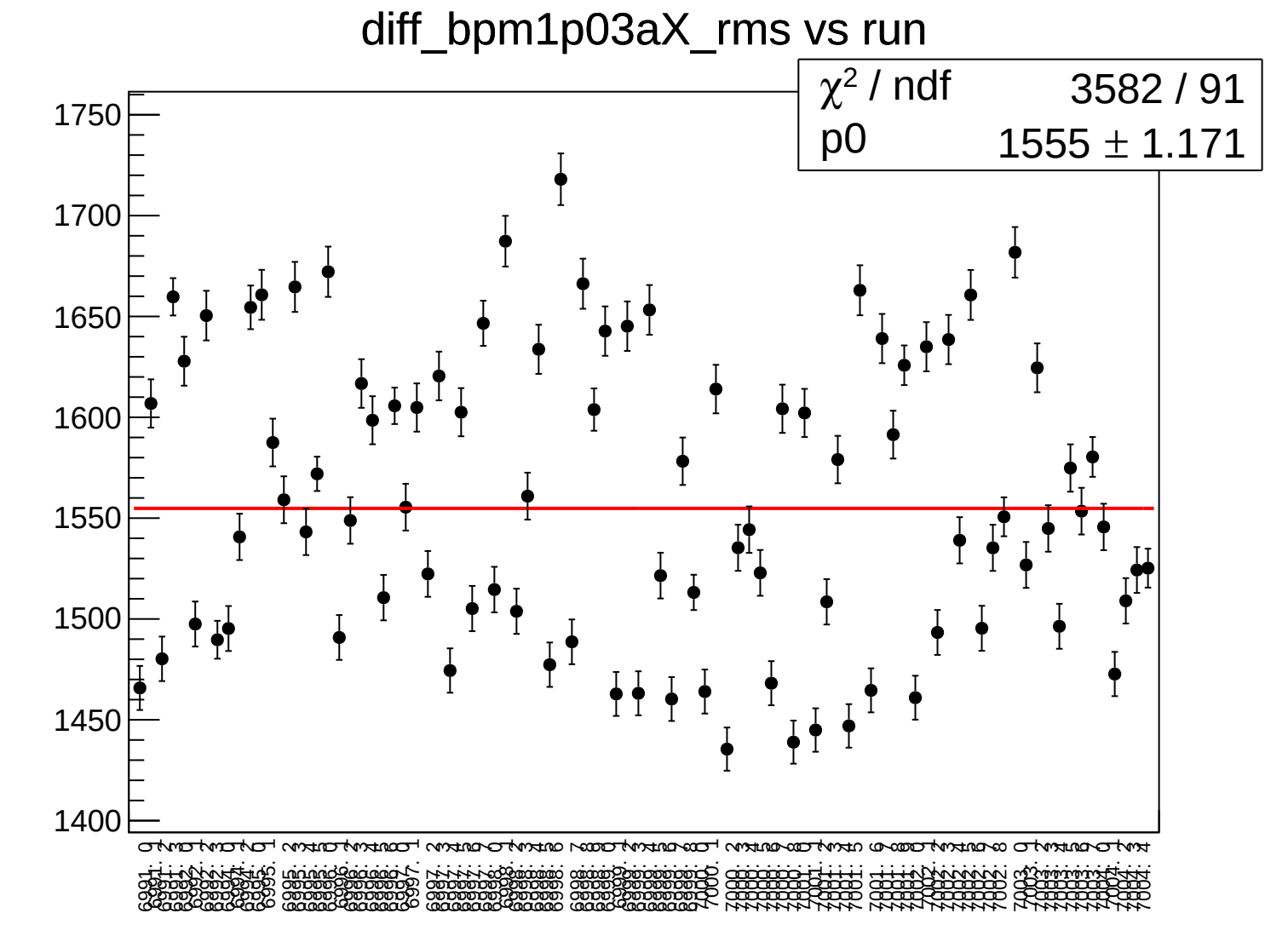

diff_bpm1p02bY_mean vs run
χ² / ndf 73.97 / 91
p0 2.324 ± 3.866
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 304.5
Std Dev 0
2
1
0
−1
−2

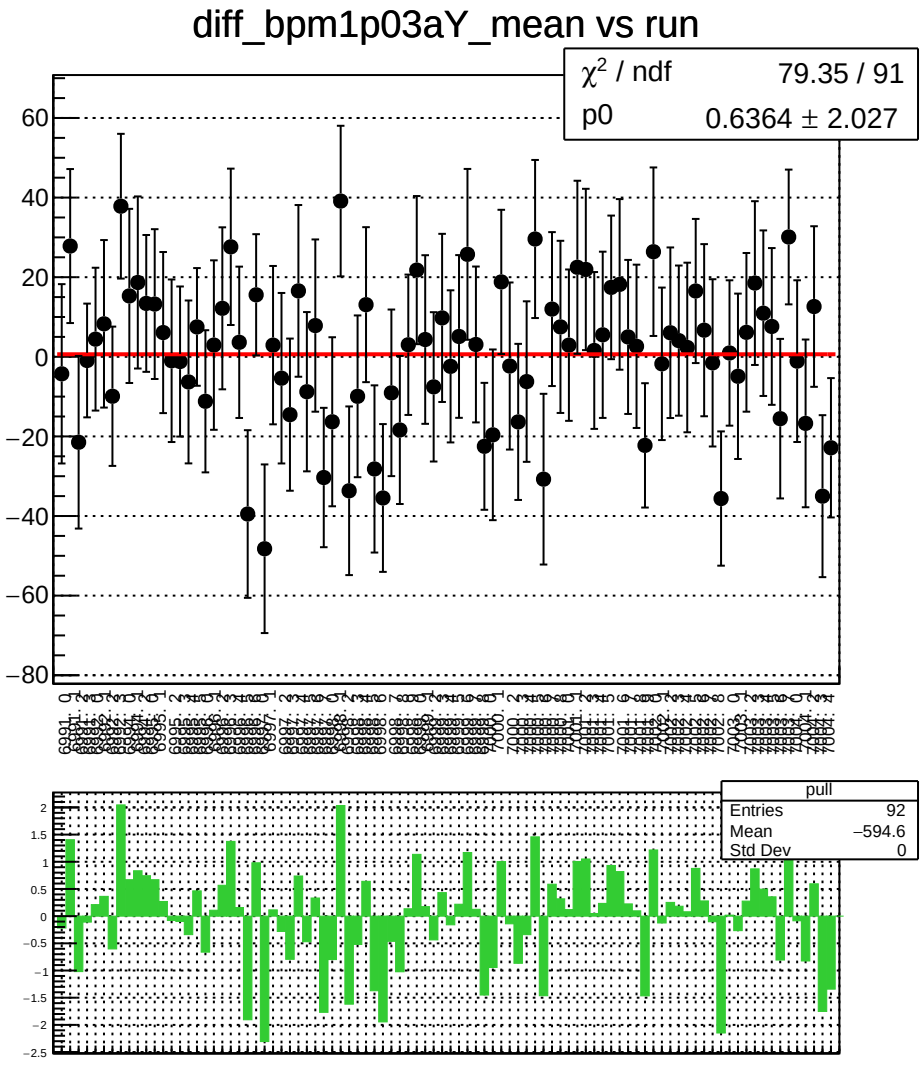

pull1D
Entries 92
Mean 0.005028
Std Dev 0.8967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

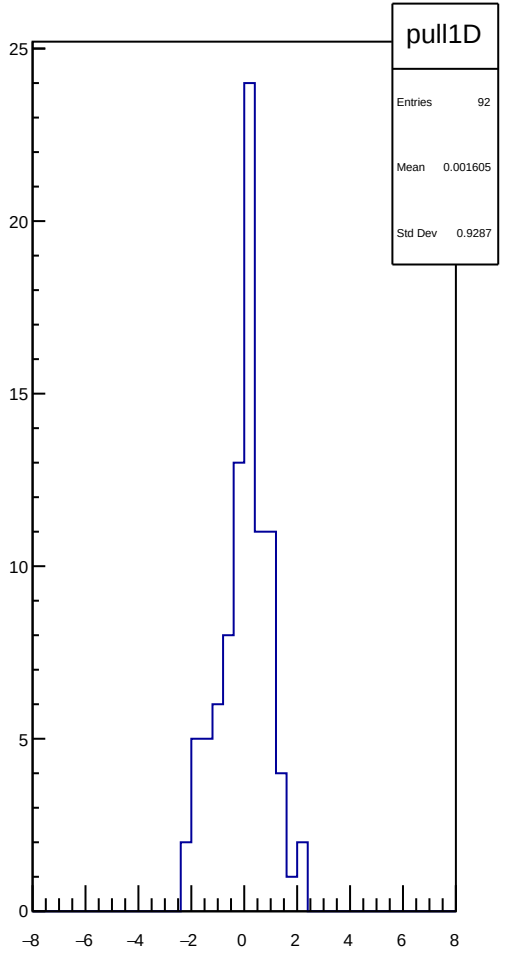

diff_bpm1p02bY_rms vs run
χ² / ndf 4466 / 91
p0 3628 ± 2.734
4000
3800
3600
3400
3200
3000

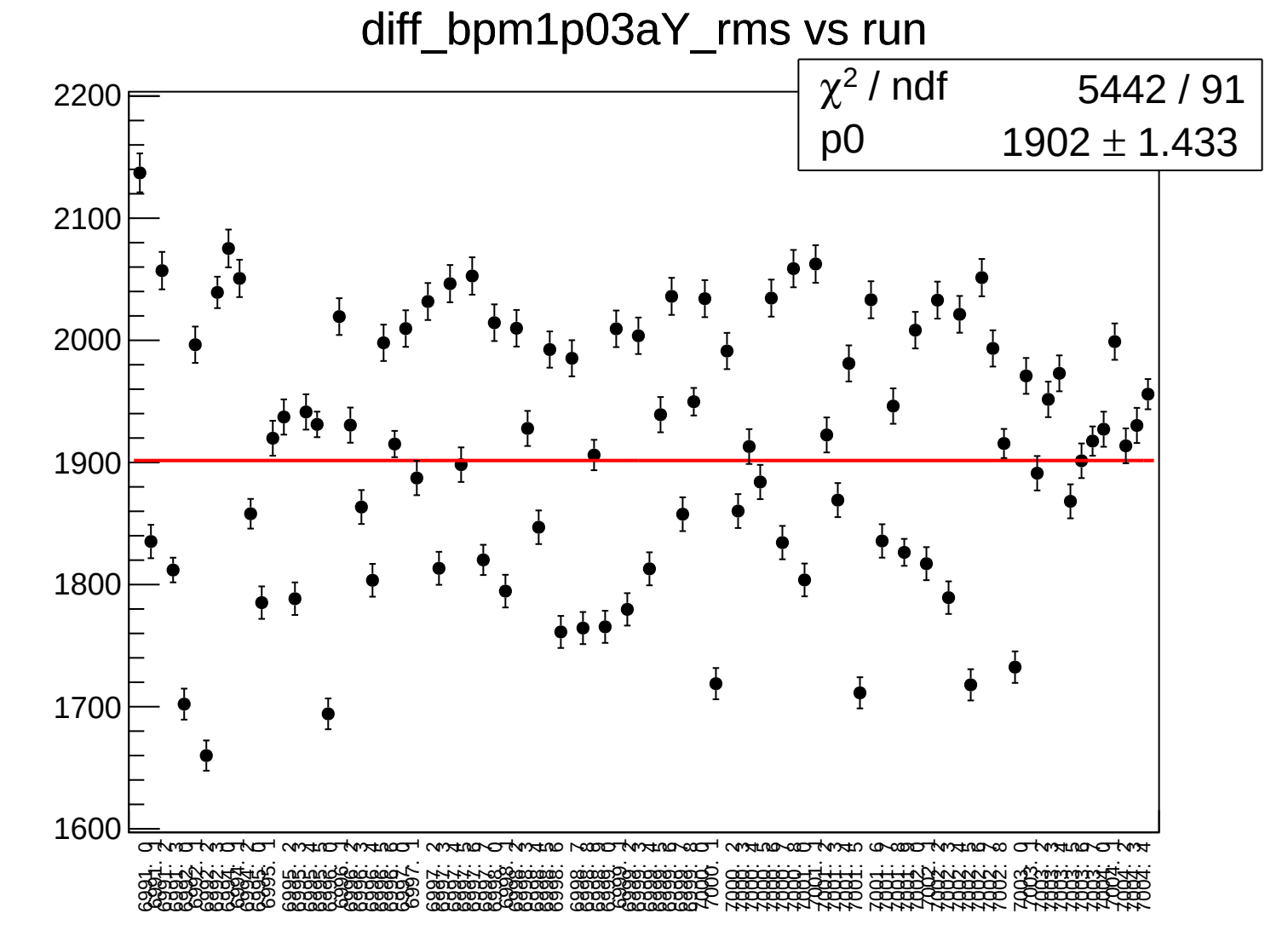

diff_bpm1p03aX_mean vs run
χ² / ndf 64.53 / 91
p0 −1.103 ± 1.657
pull
Entries 92
Mean 562.9
Std Dev 0

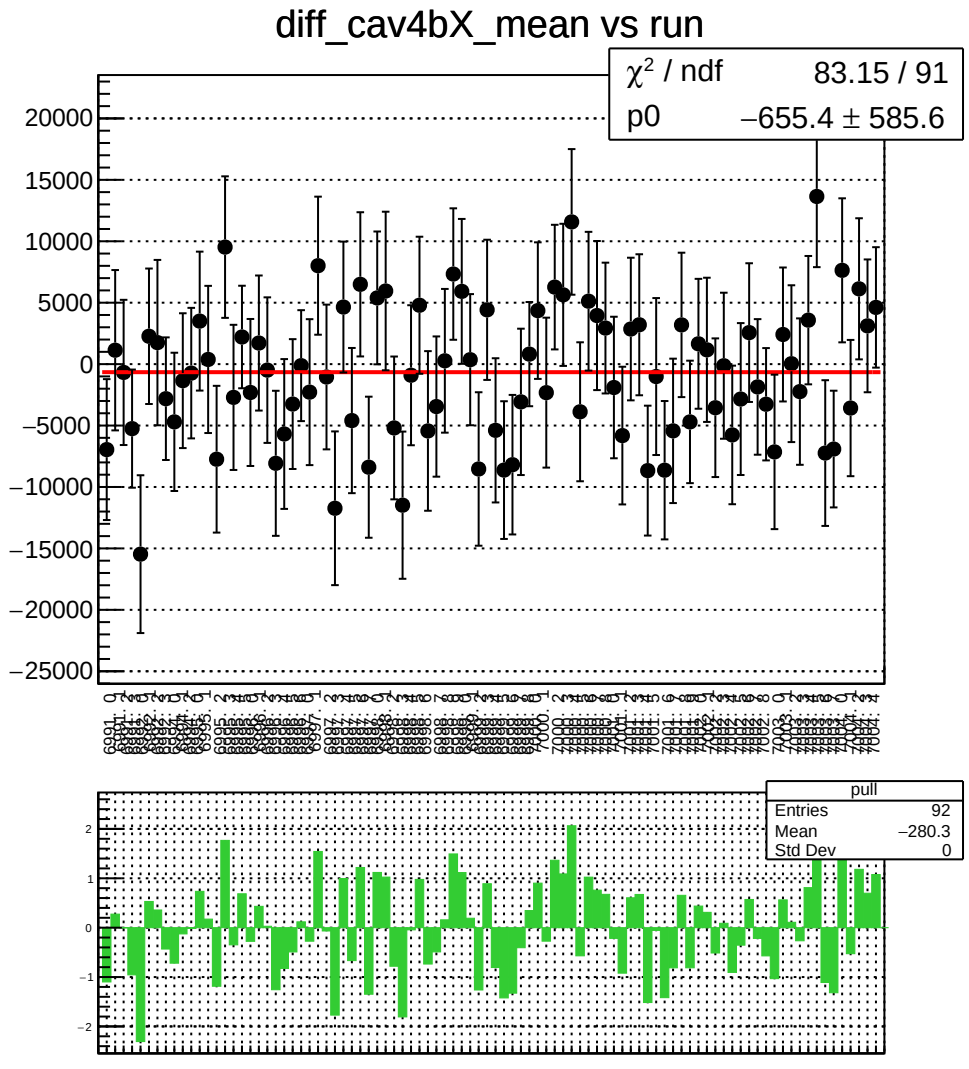

pull1D
Entries 92
Mean 0.003062
Std Dev 0.8375

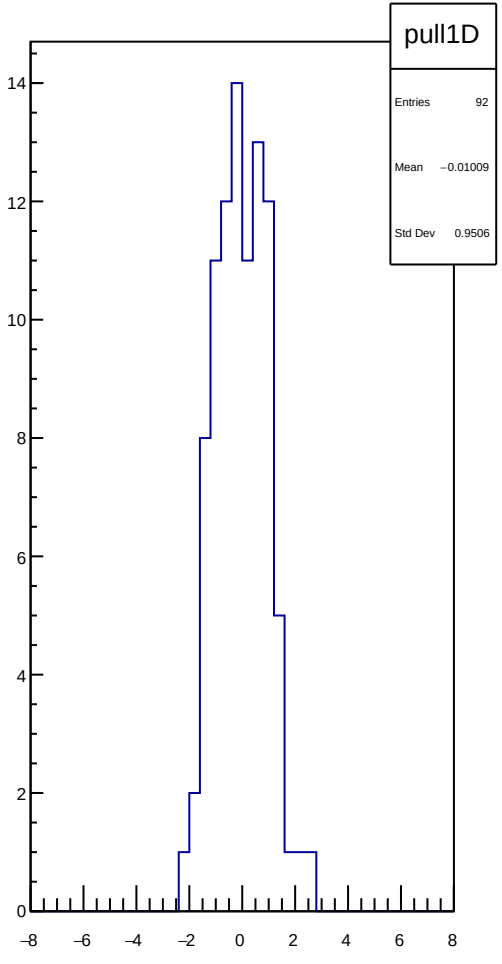

diff_bpm1p03aX_rms vs run
χ² / ndf 3582 / 91
p0 1555 ± 1.171
1750
1700
1650
1600
1550
1500
1450
1400

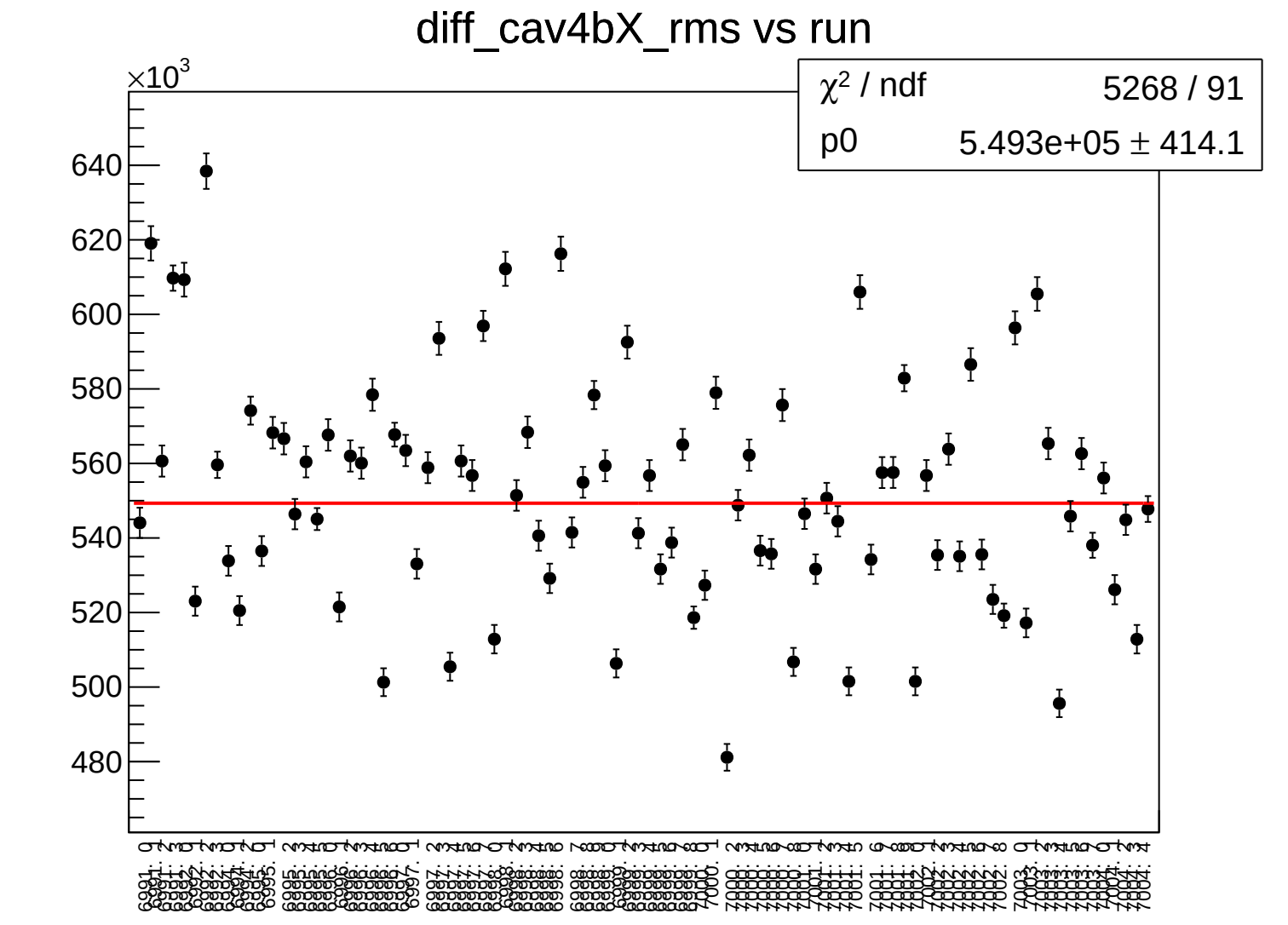

diff_bpm1p03aY_mean vs run
χ² / ndf 79.35 / 91
p0 0.6364 ± 2.027
pull
Entries 92
Mean −594.6
Std Dev 0

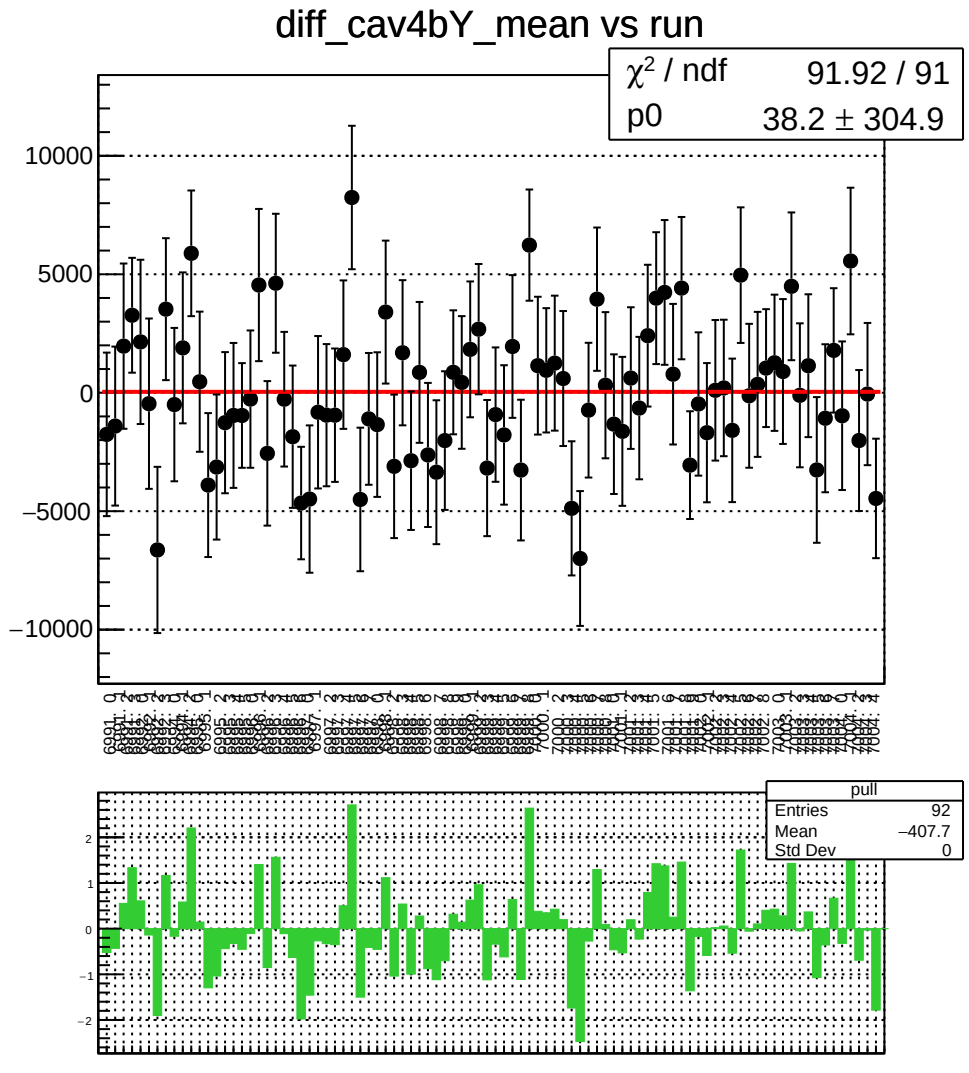

pull1D
Entries 92
Mean 0.001605
Std Dev 0.9287

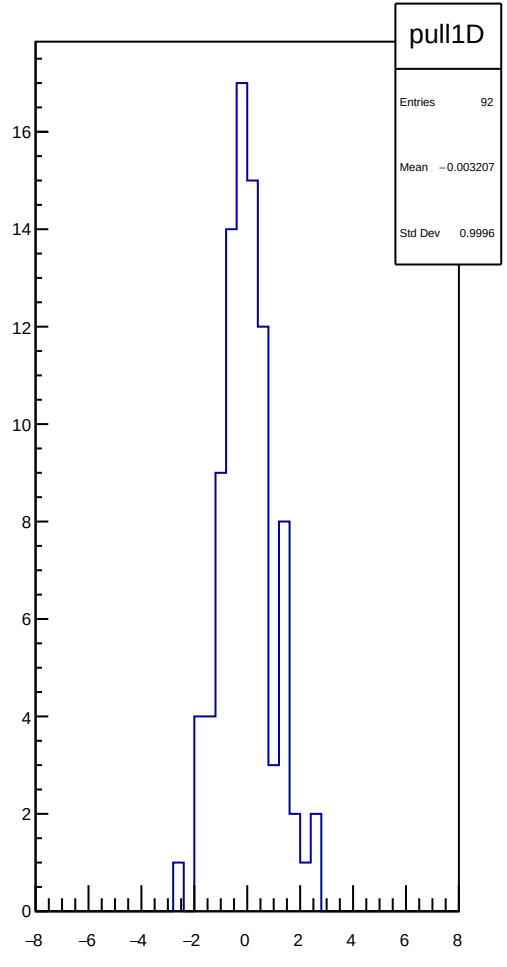

diff_bpm1p03aY_rms vs run
χ² / ndf 5442 / 91
p0 1902 ± 1.433
2200
2100
2000
1900
1800
1700
1600

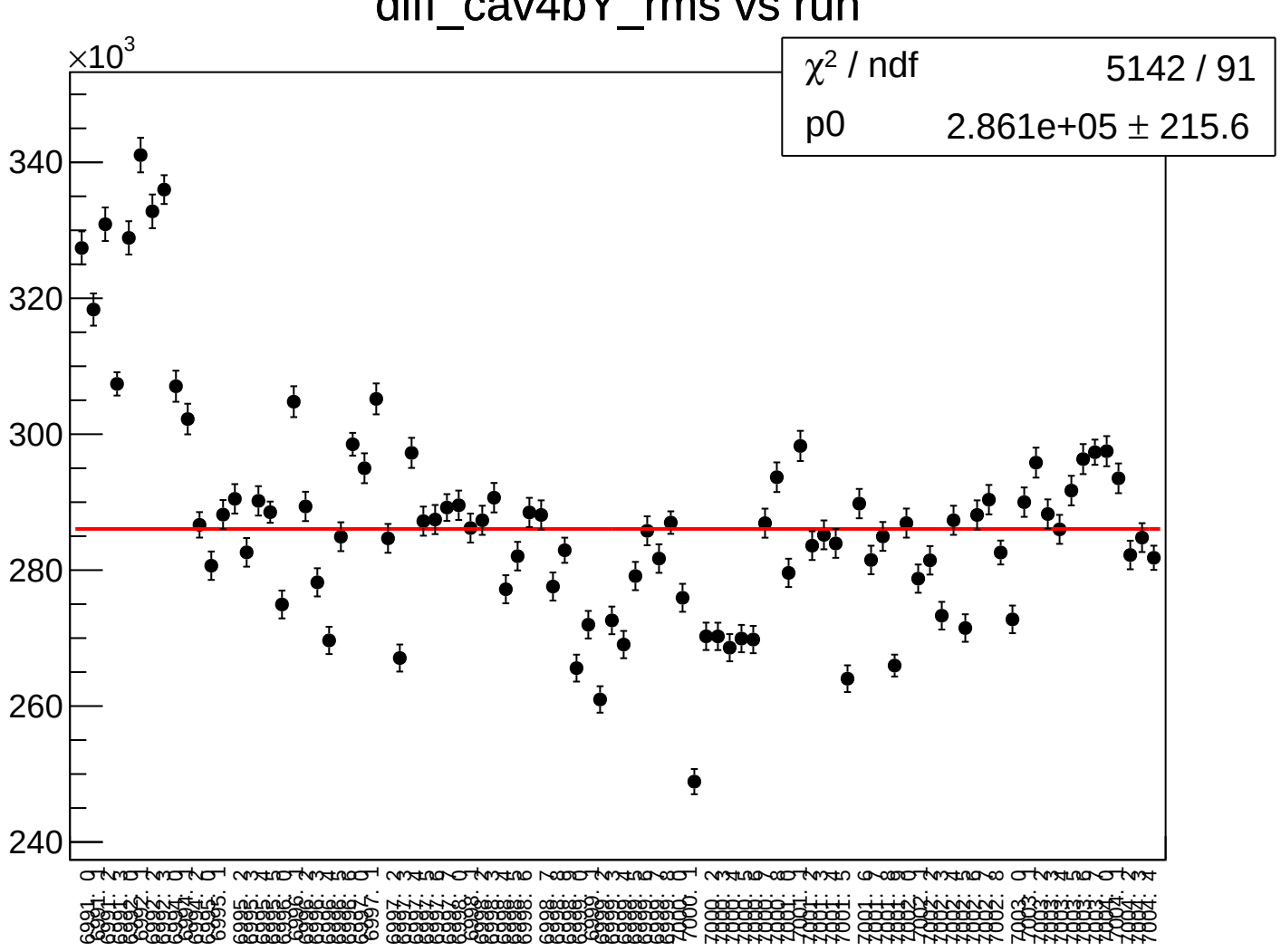

diff_cav4bX_mean vs run
χ² / ndf 83.15 / 91
p0 −655.4 ± 585.6
pull
Entries 92
Mean −280.3
Std Dev 0

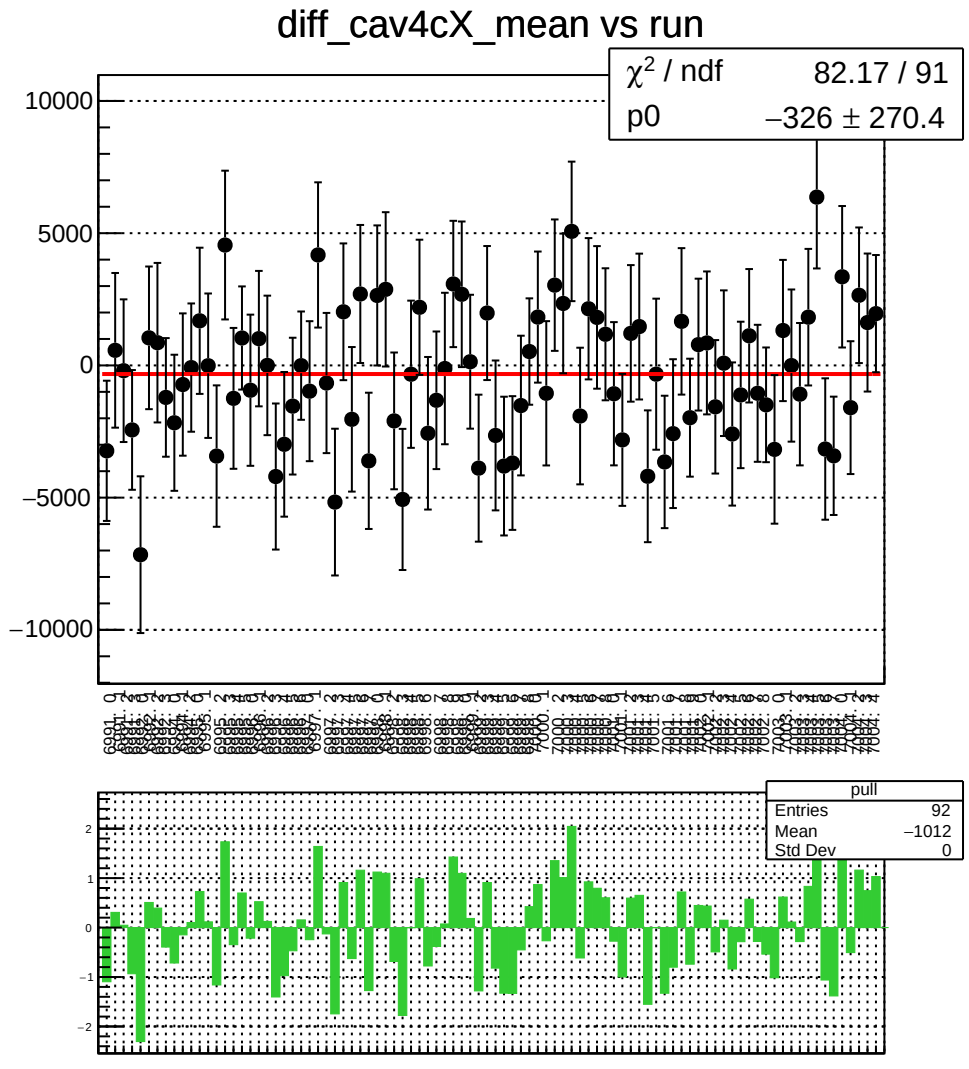

pull1D
Entries 92
Mean −0.01009
Std Dev 0.9506

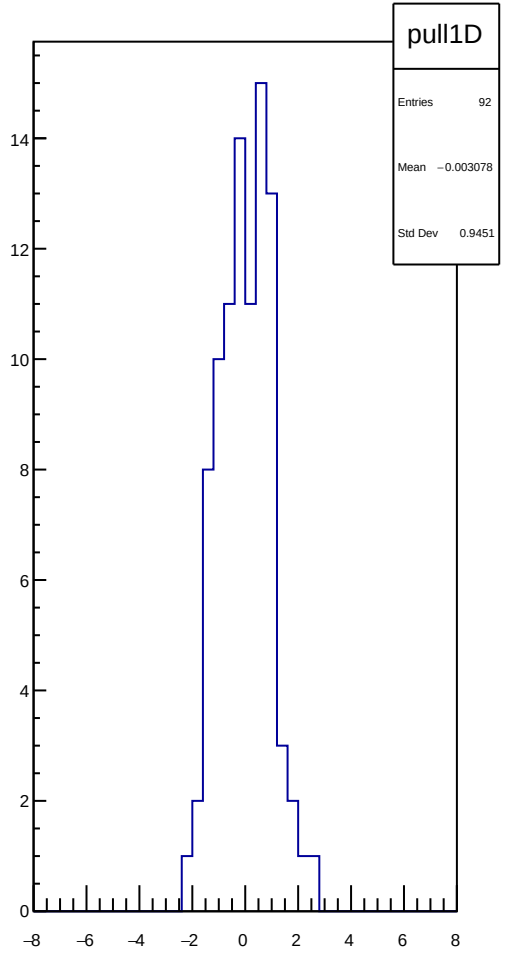

diff_cav4bX_rms vs run
×10^3
640
620
600
580
560
540
520
500
480
χ² / ndf 5268 / 91
p0 5.493e+05 ± 414.1

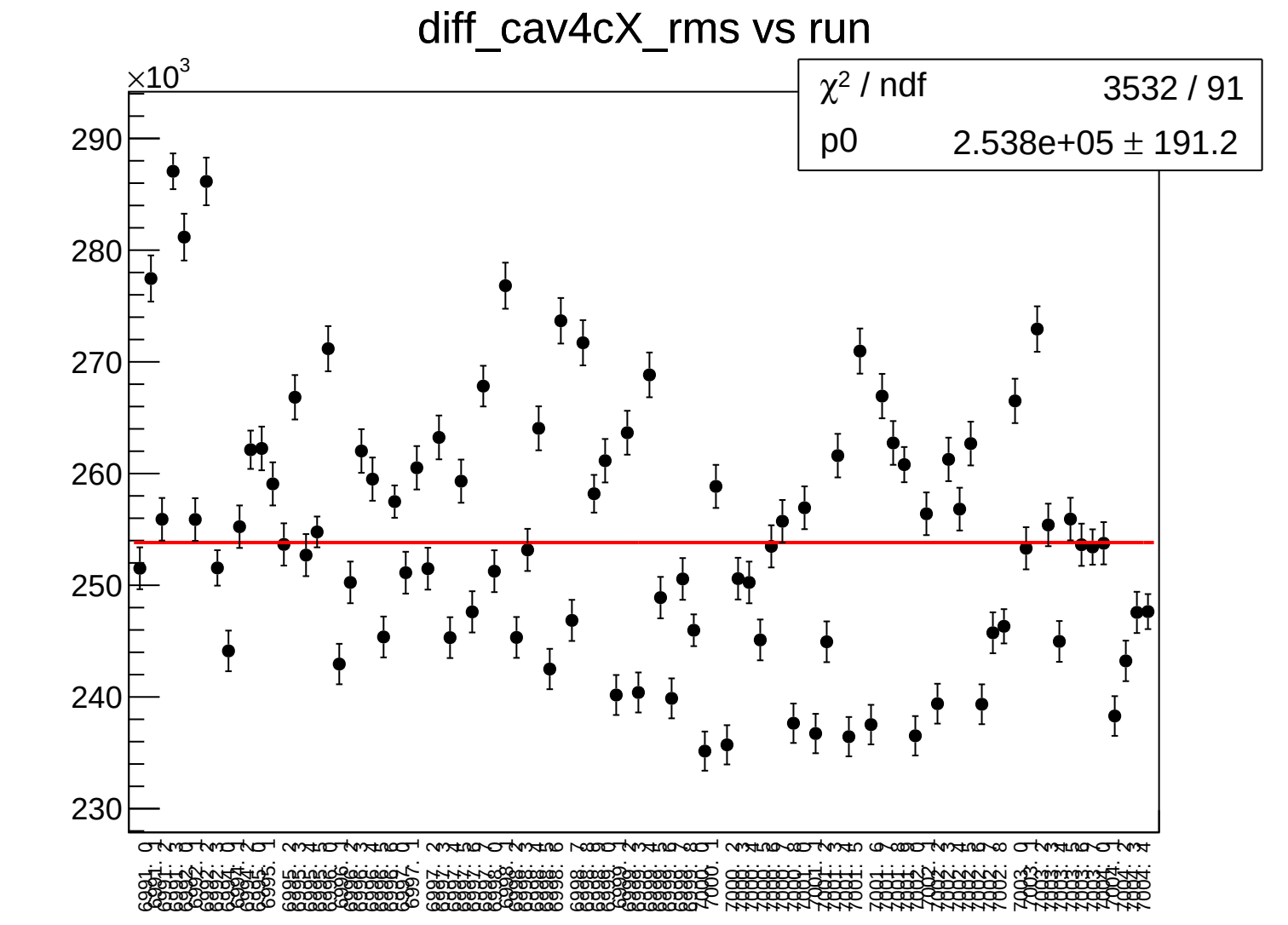

diff_cav4bY_mean vs run
χ² / ndf 91.92 / 91
p0 38.2 ± 304.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −407.7
Std Dev 0
2
1
0
−1
−2

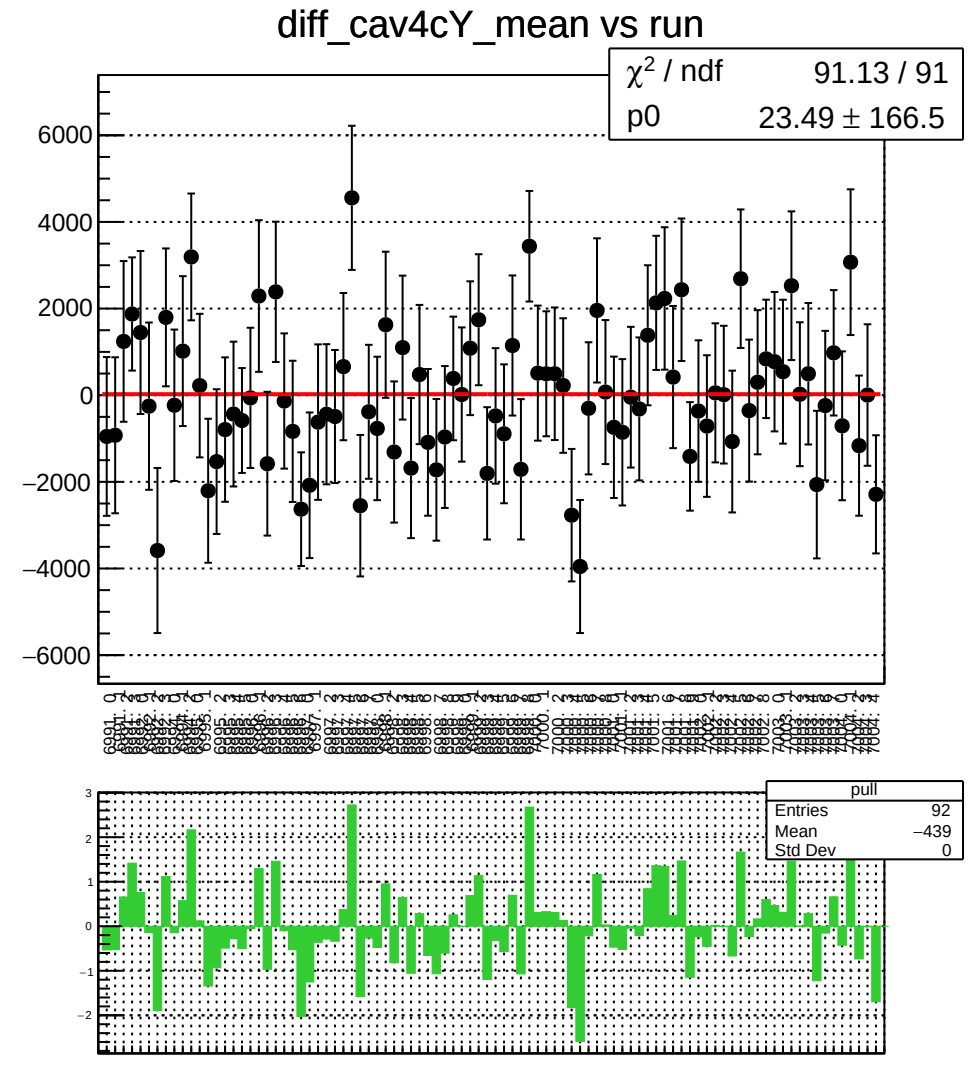

pull1D
Entries 92
Mean −0.003207
Std Dev 0.9996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

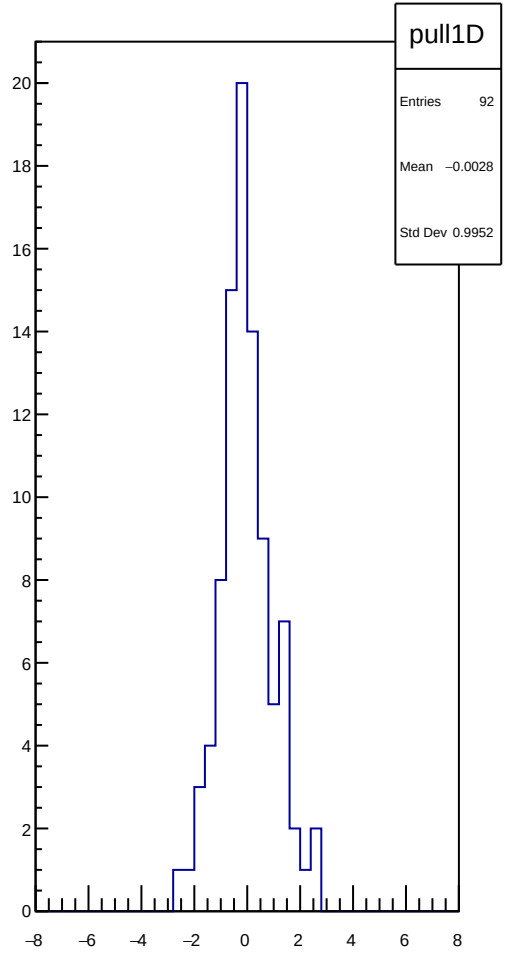

diff_cav4bY_rms vs run
×10^3
χ² / ndf 5142 / 91
p0 2.861e+05 ± 215.6
340
320
300
280
260
240

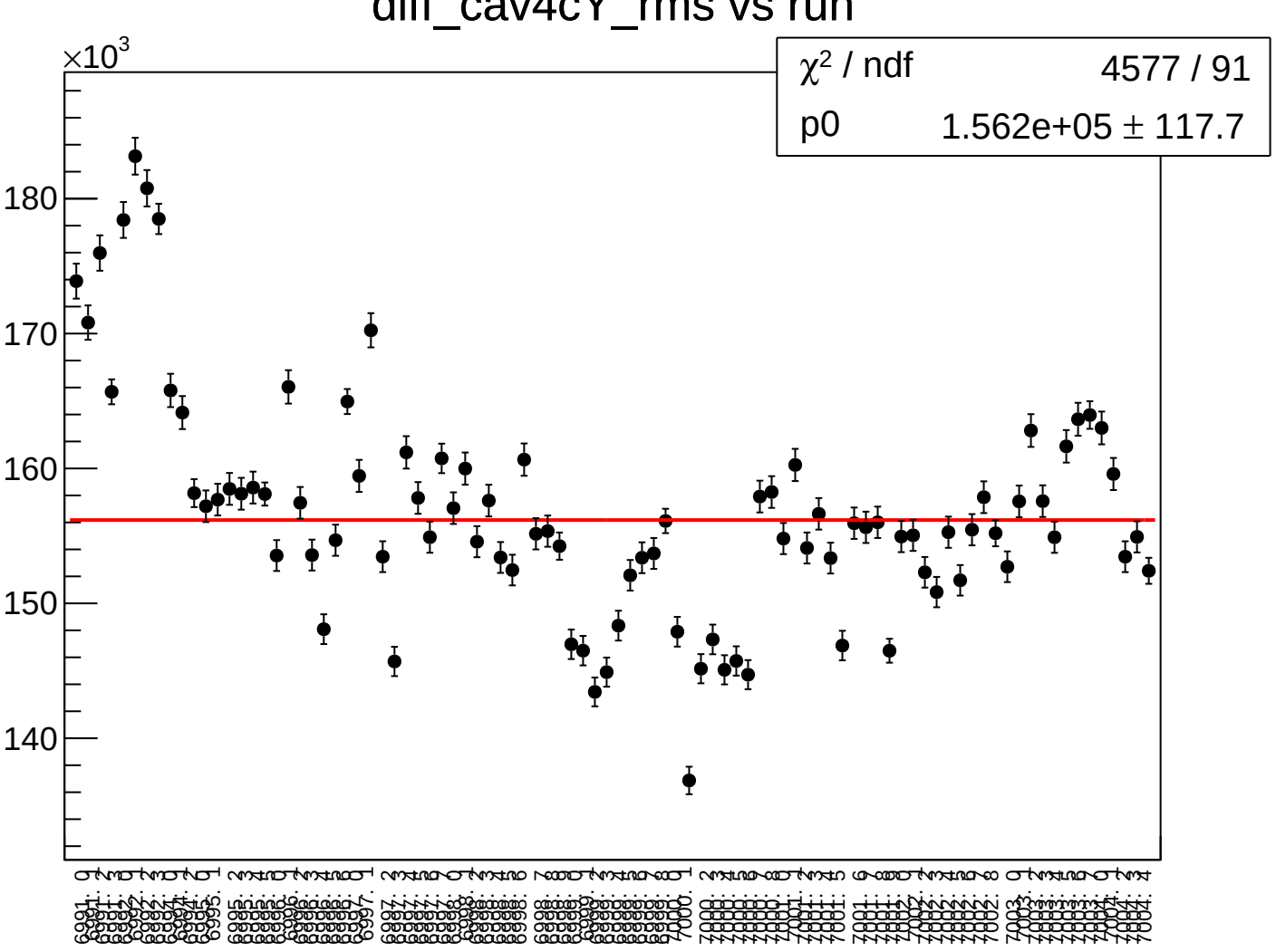

diff_cav4cX_mean vs run
χ² / ndf 82.17 / 91
p0 −326 ± 270.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1012
Std Dev 0
2
1
0
−1
−2

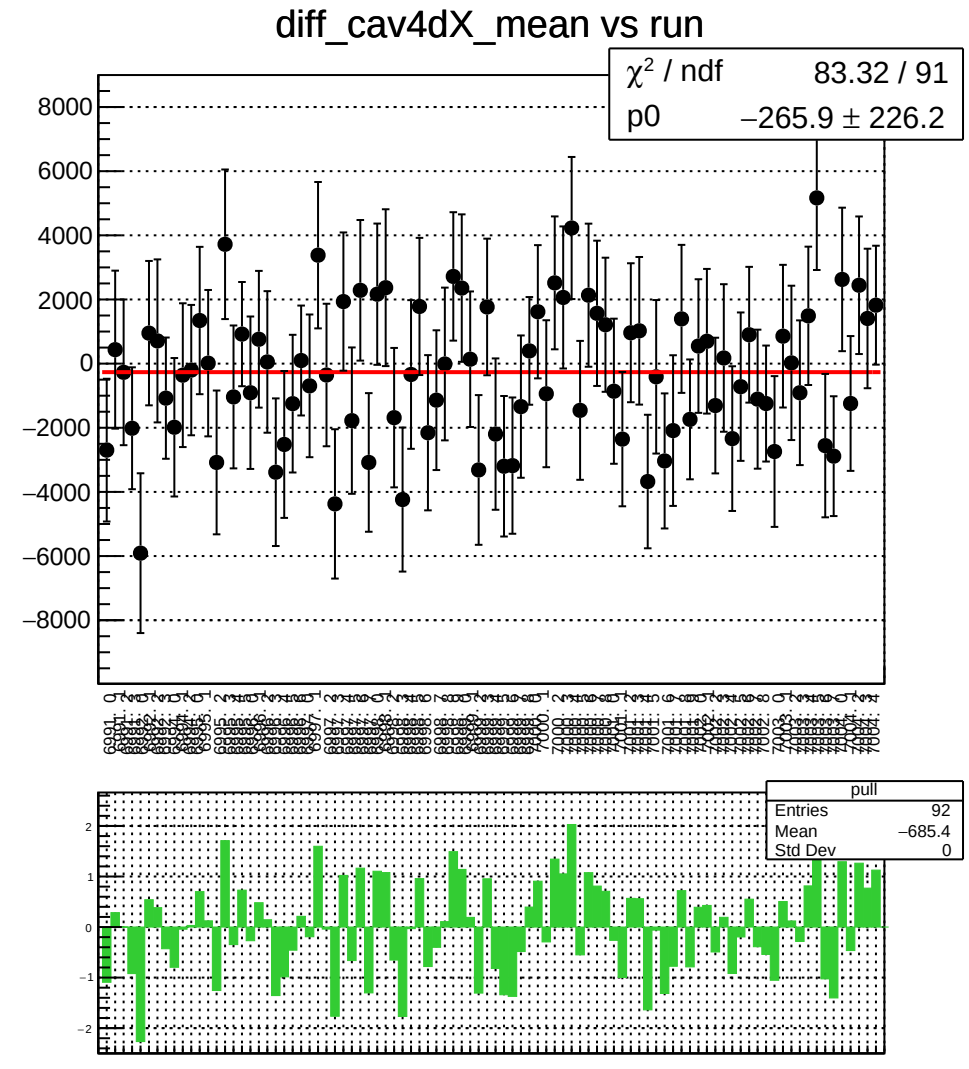

pull1D
Entries 92
Mean −0.003078
Std Dev 0.9451
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

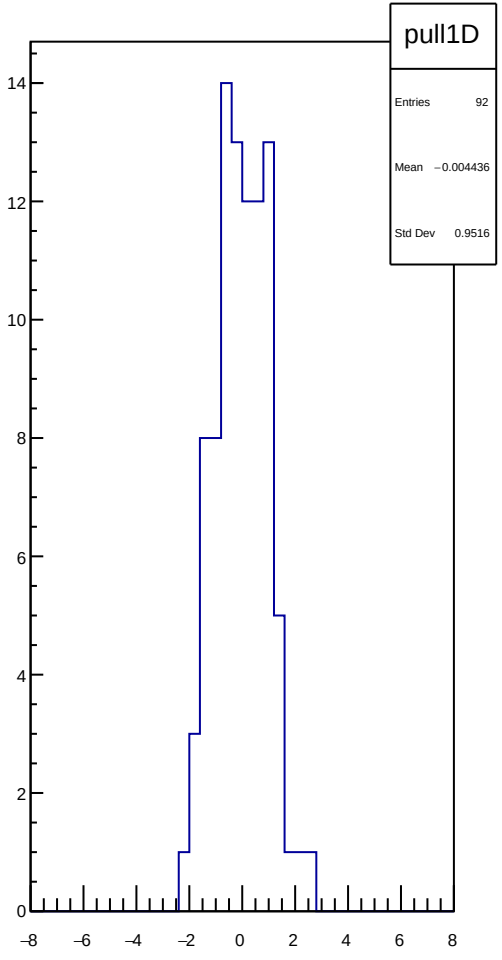

diff_cav4cX_rms vs run
×10^3
290
280
270
260
250
240
230
χ² / ndf 3532 / 91
p0 2.538e+05 ± 191.2

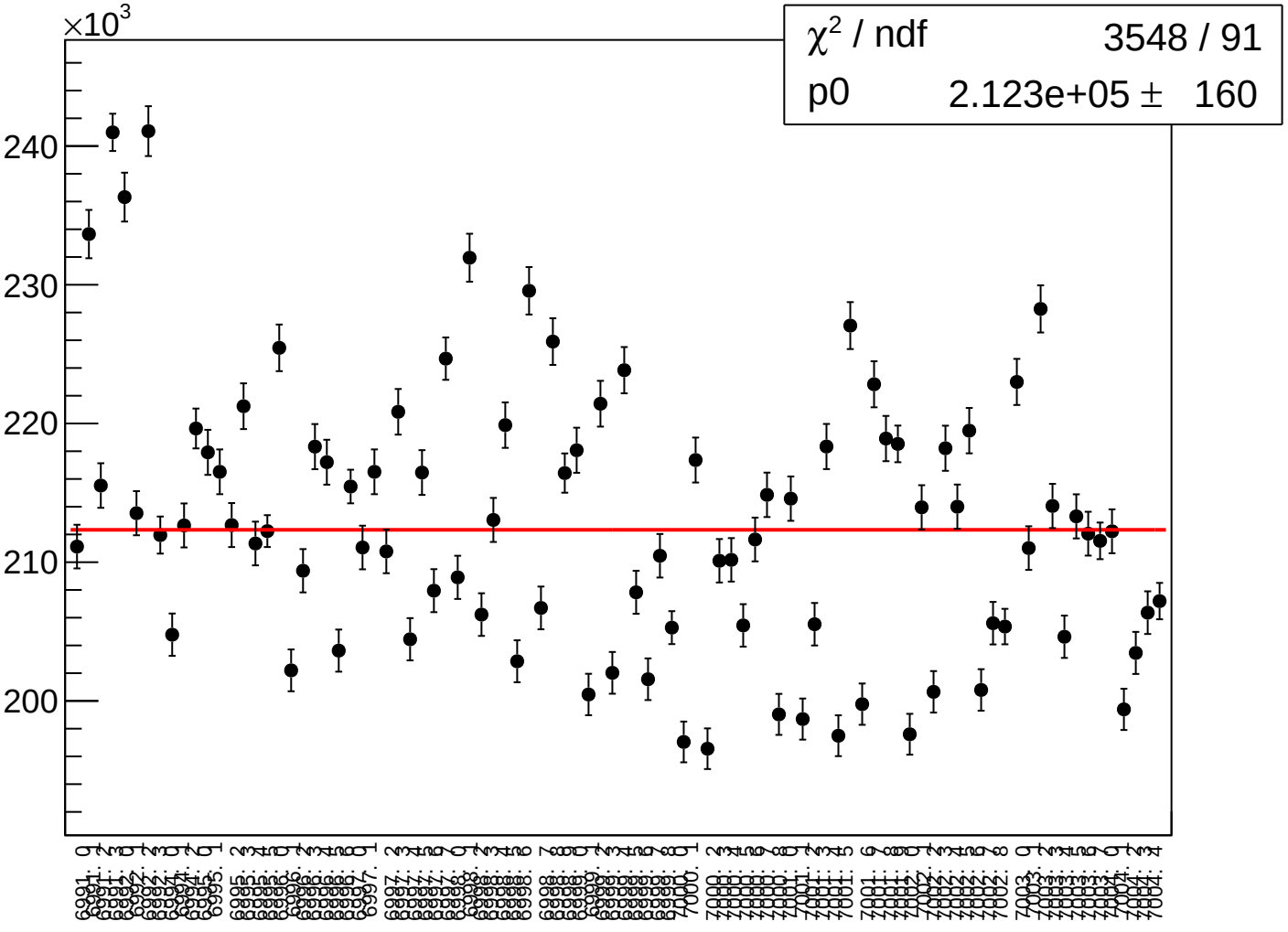

diff_cav4cY_mean vs run
χ^2 / ndf 91.13 / 91
p0 23.49 ± 166.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −439
Std Dev 0
3
2
1
0
−1
−2

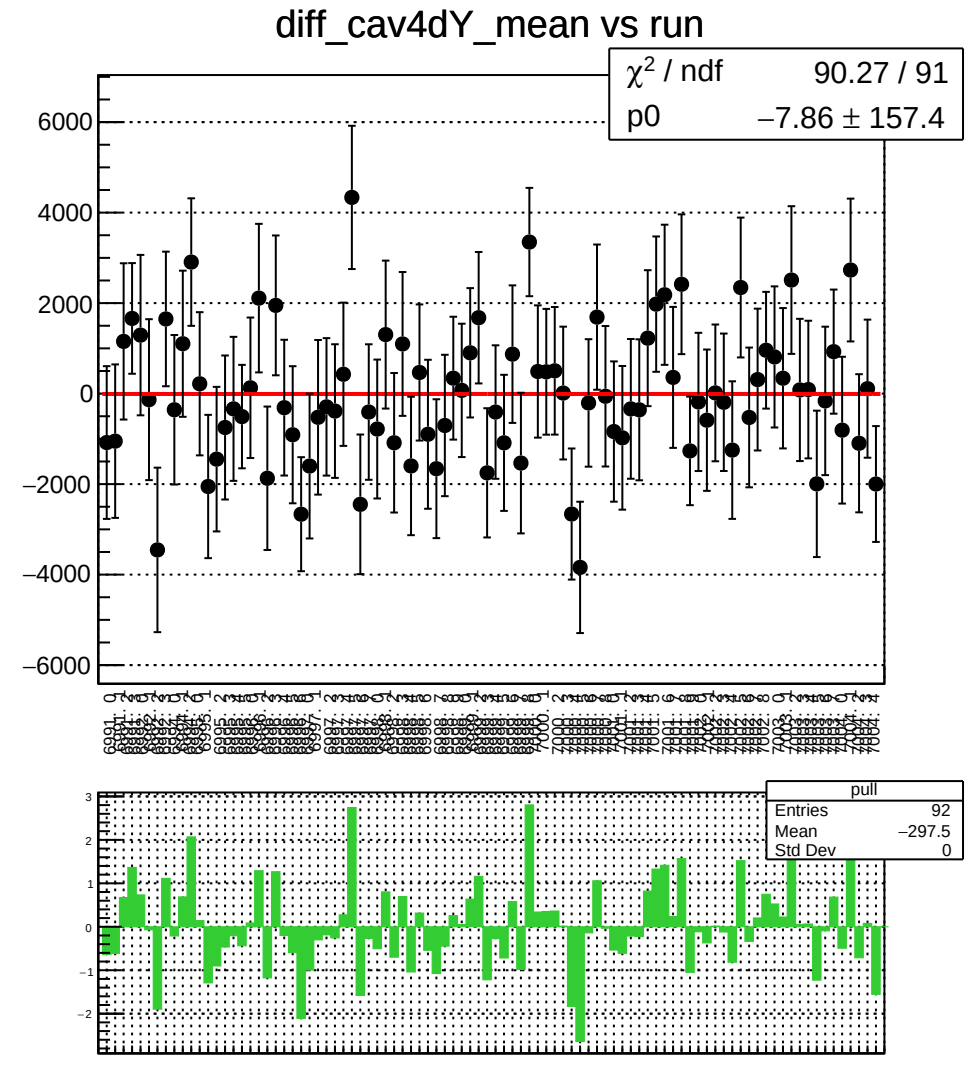

pull1D
Entries 92
Mean −0.0028
Std Dev 0.9952
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

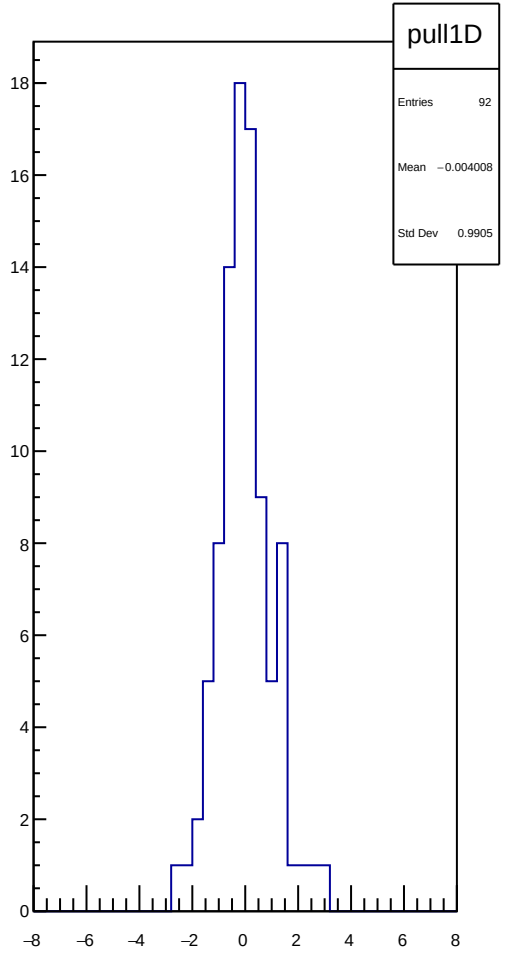

diff_cav4cY_rms vs run
×10^3
χ² / ndf 4577 / 91
p0 1.562e+05 ± 117.7
180
170
160
150
140

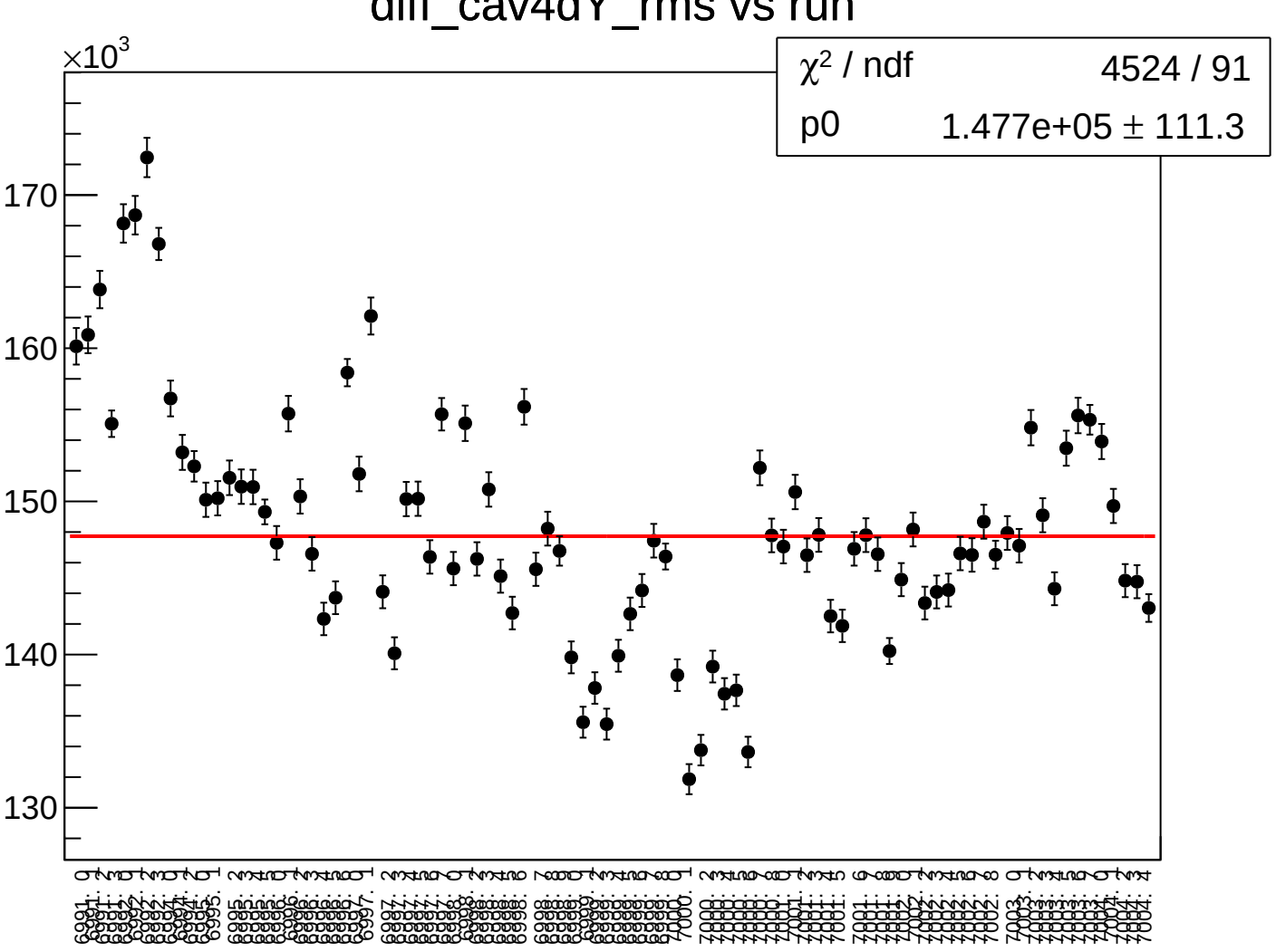

diff_cav4dX_mean vs run
χ² / ndf 83.32 / 91
p0 −265.9 ± 226.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −685.4
Std Dev 0
2
1
0
−1
−2

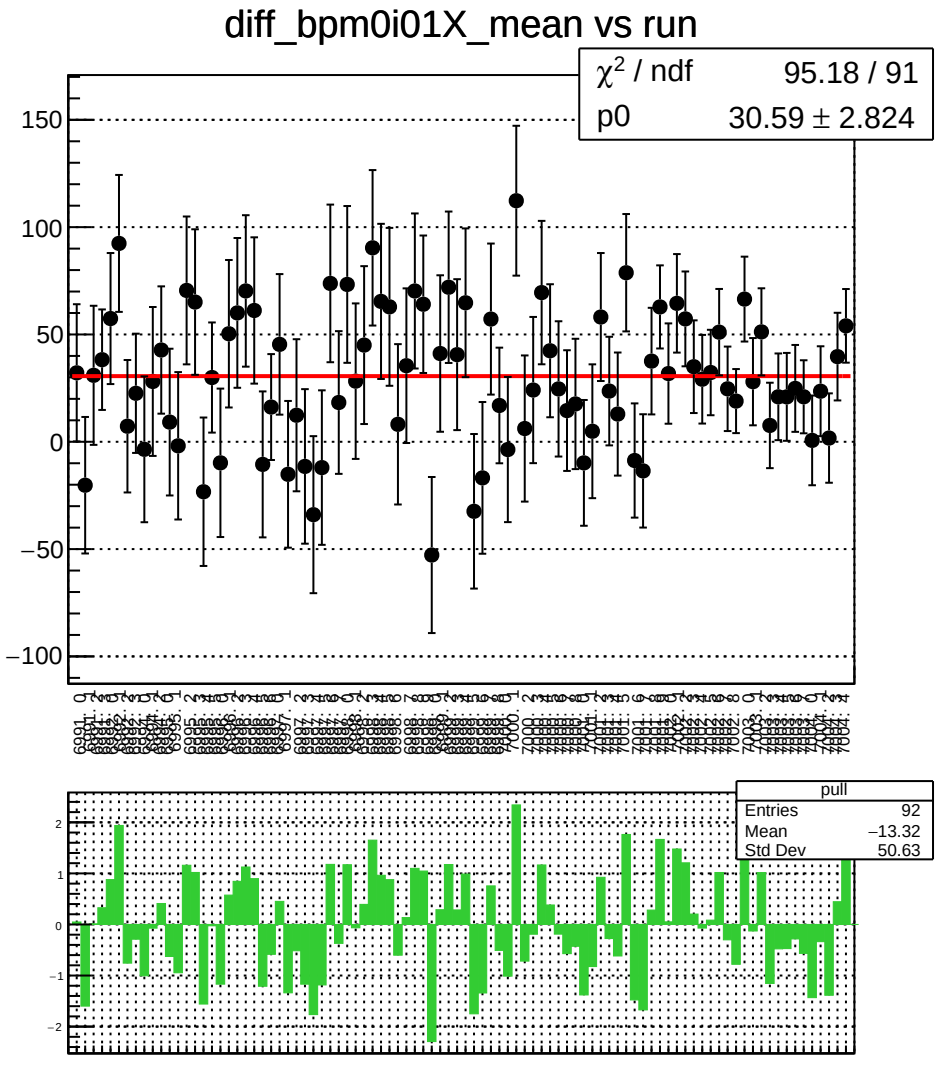

pull1D
Entries 92
Mean −0.004436
Std Dev 0.9516
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

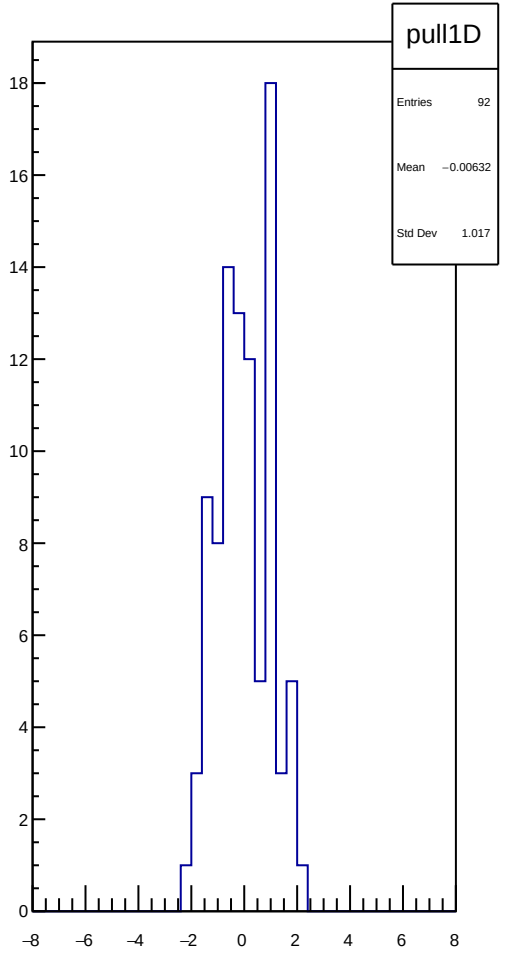

diff_cav4dX_rms vs run
×10^3
240
230
220
210
200
χ² / ndf 3548 / 91
p0 2.123e+05 ± 160

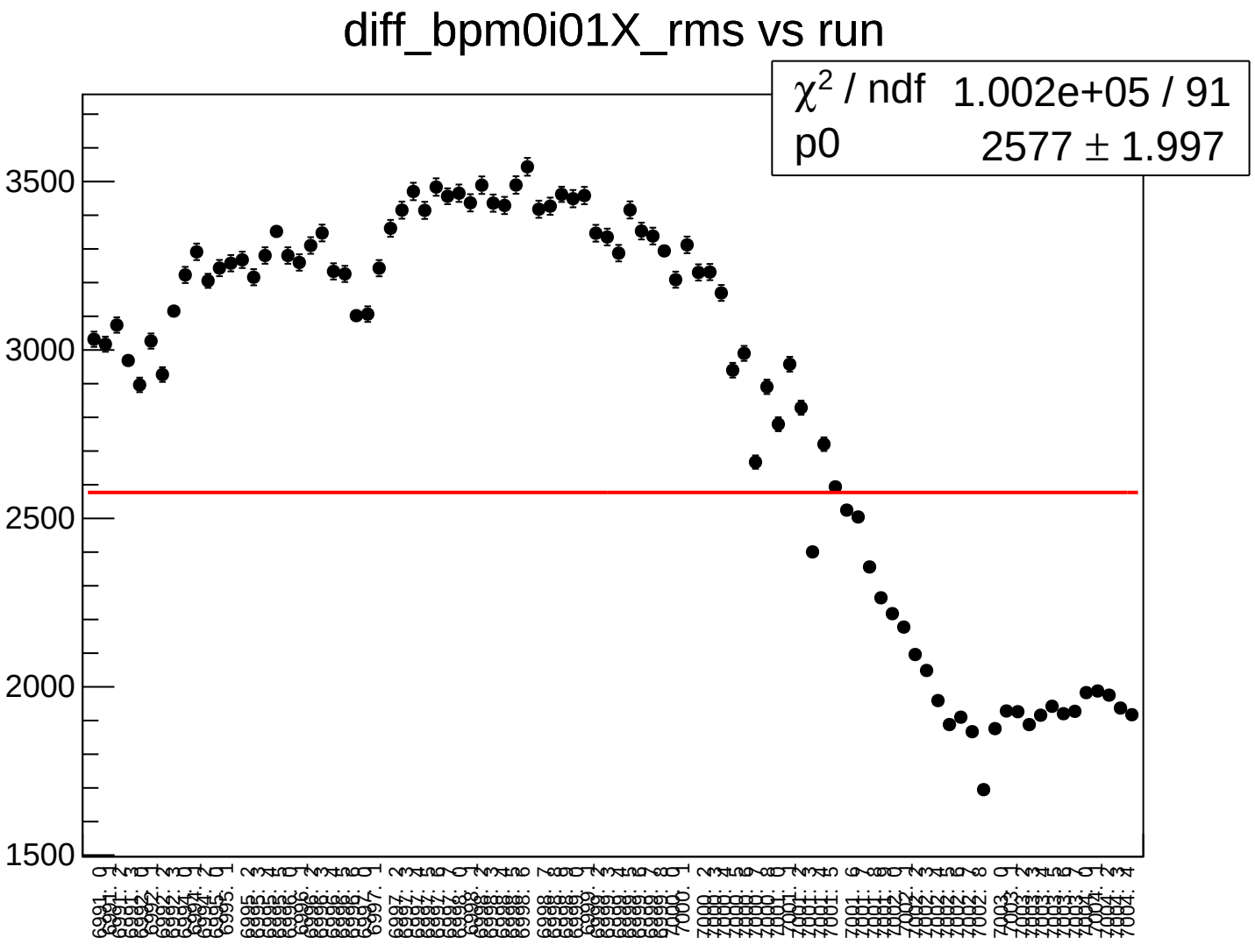

diff_cav4dY_mean vs run
χ² / ndf 90.27 / 91
p0 −7.86 ± 157.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −297.5
Std Dev 0
3
2
1
0
−1
−2

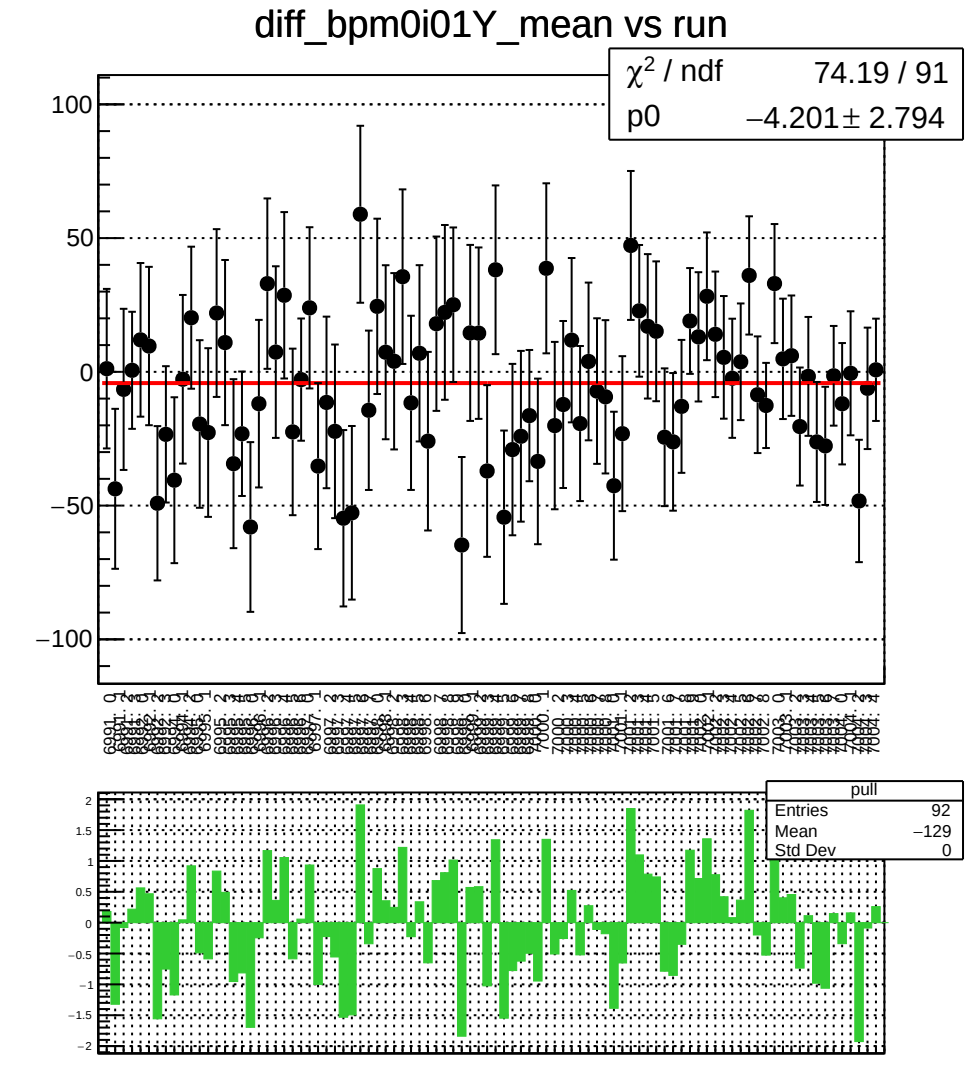

pull1D
Entries 92
Mean −0.004008
Std Dev 0.9905
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

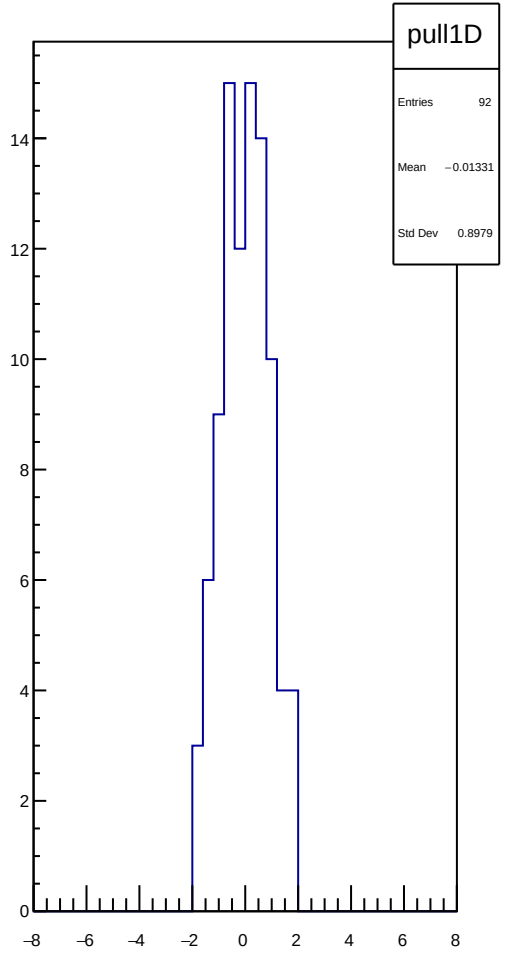

diff_cav4dY_rms vs run
×10^3
χ² / ndf 4524 / 91
p0 1.477e+05 ± 111.3
170
160
150
140
130

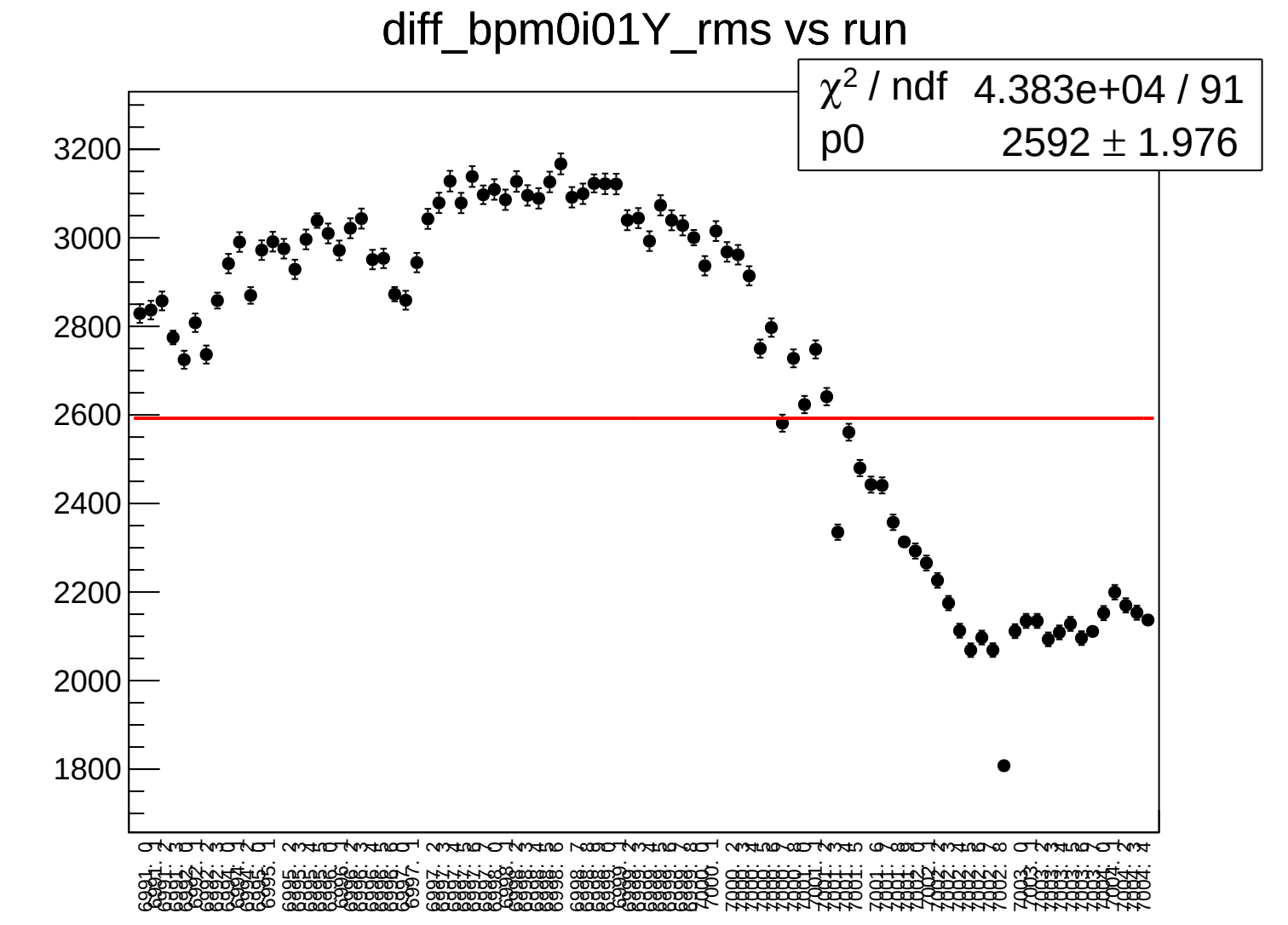

diff_bpm0i01X_mean vs run
χ^2 / ndf 95.18 / 91
p0 30.59 ± 2.824
150
100
50
0
−50
−100
pull
Entries 92
Mean −13.32
Std Dev 50.63
2
1
0
−1
−2

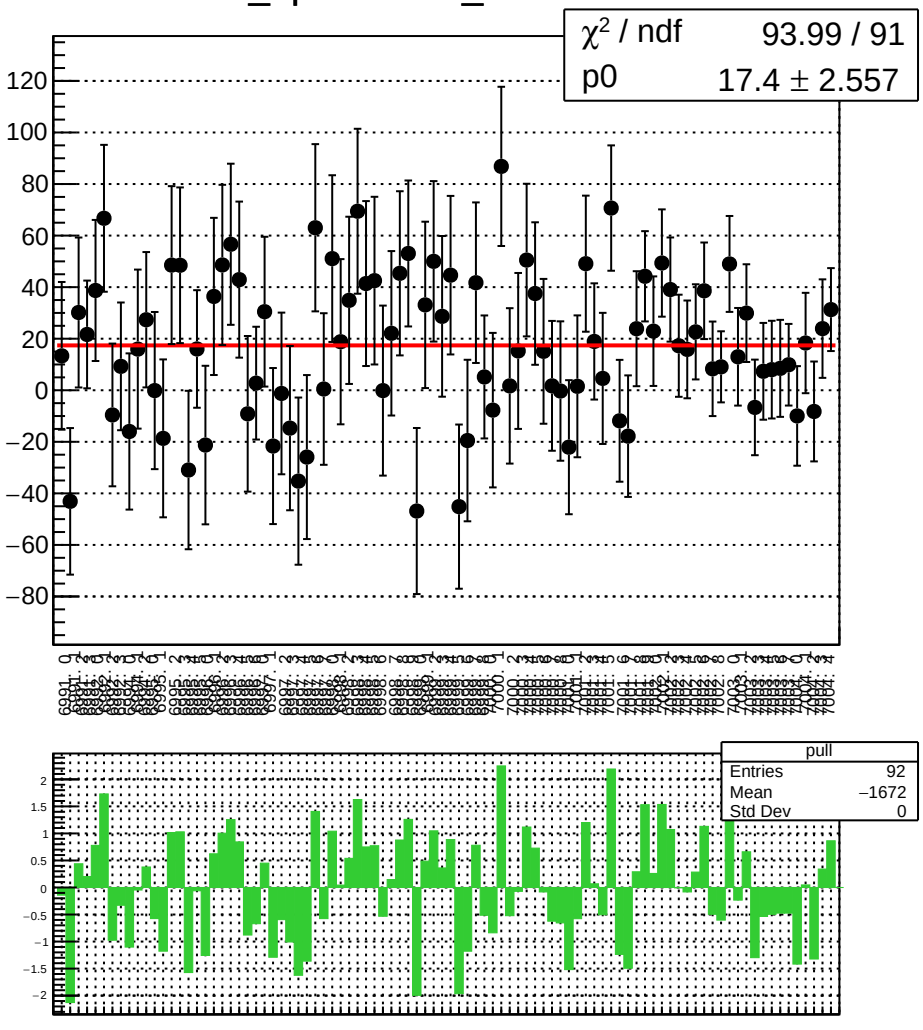

pull1D
Entries 92
Mean −0.00632
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

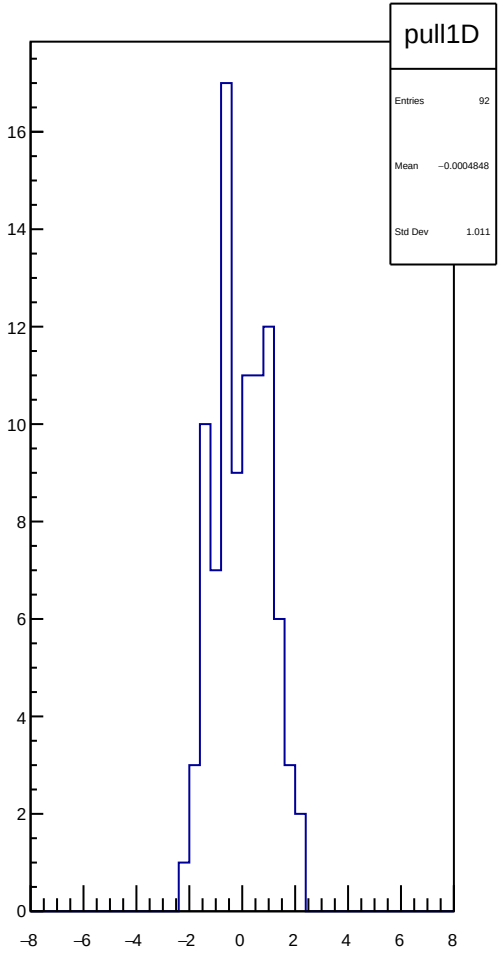

diff_bpm0i01X_rms vs run
χ² / ndf 1.002e+05 / 91
p0 2577 ± 1.997
3500
3000
2500
2000
1500

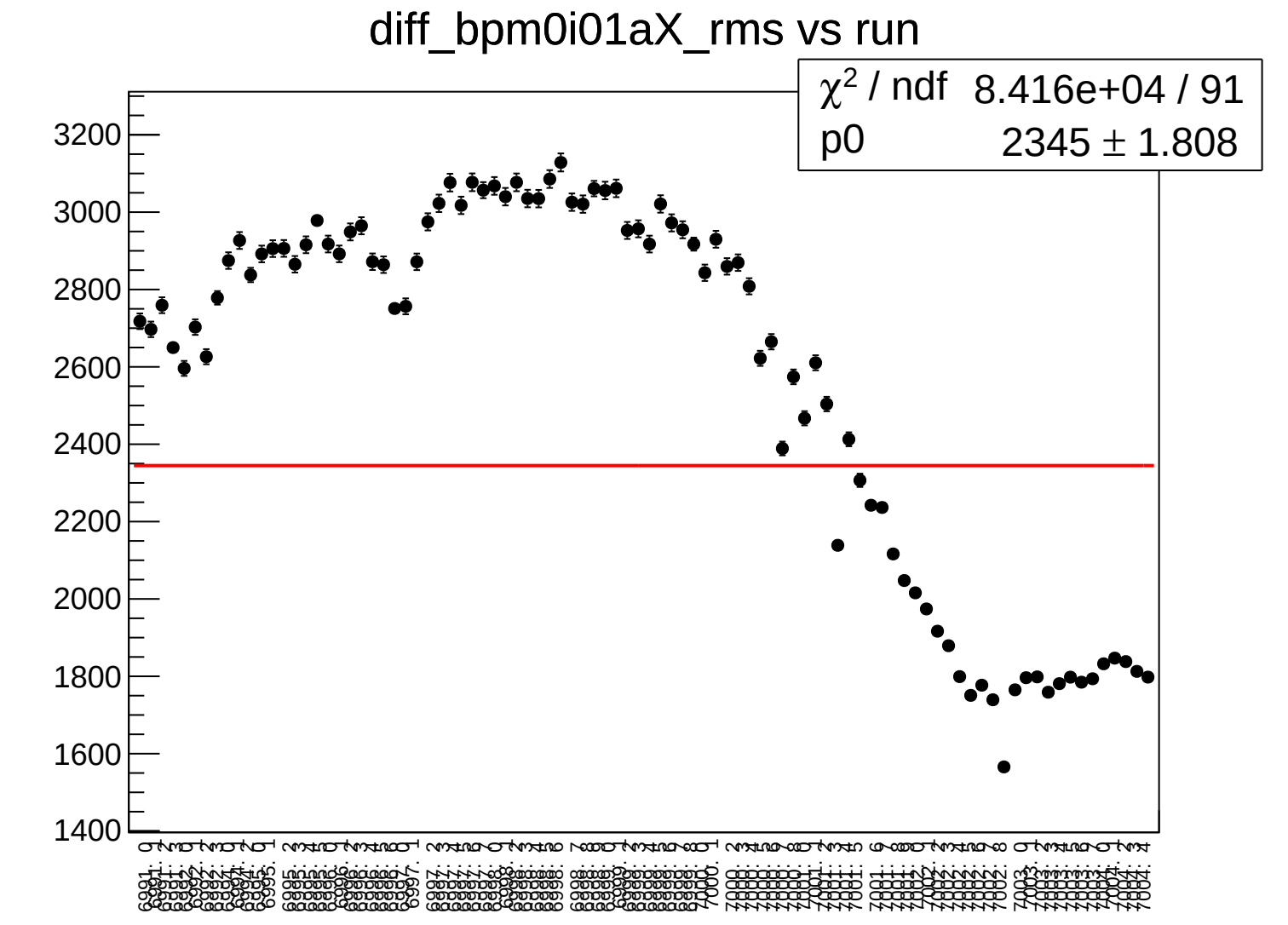

diff_bpm0i01Y_mean vs run
χ² / ndf 74.19 / 91
p0 −4.201 ± 2.794
100
50
0
−50
−100
pull
Entries 92
Mean −129
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

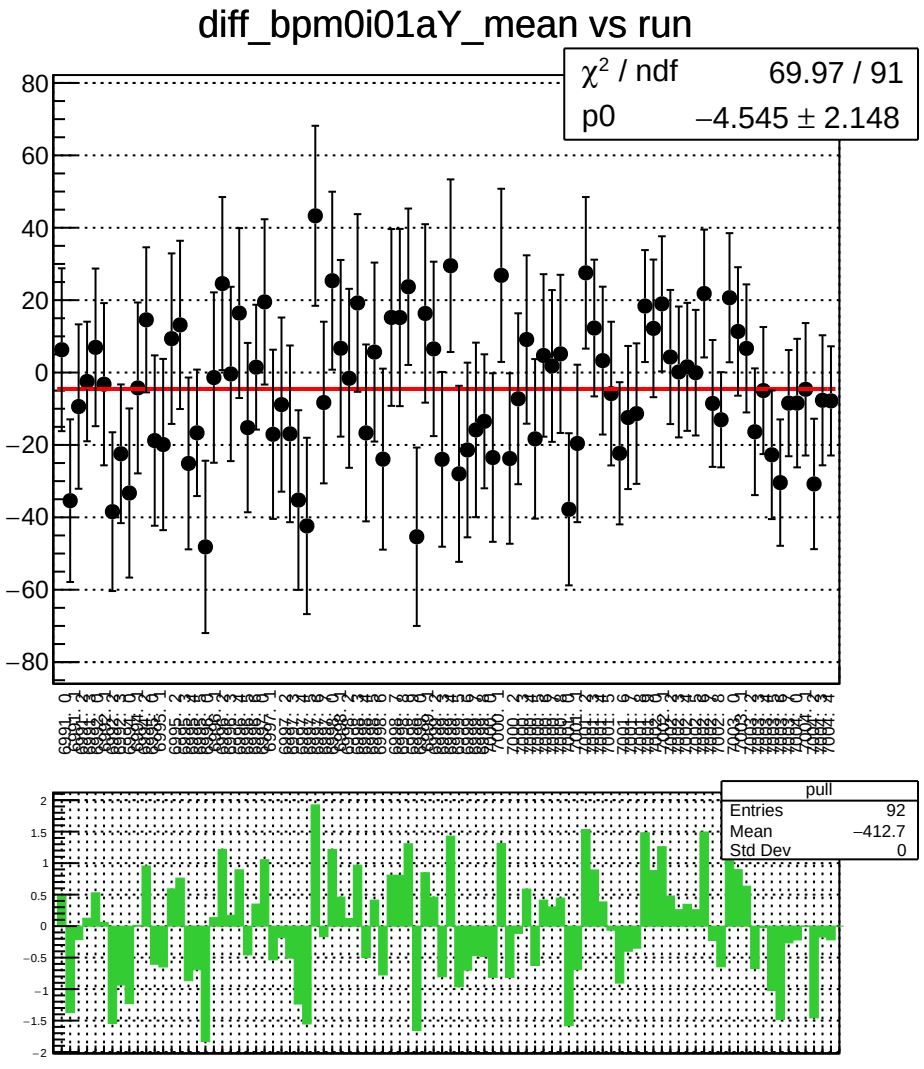

pull1D
Entries 92
Mean −0.01331
Std Dev 0.8979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

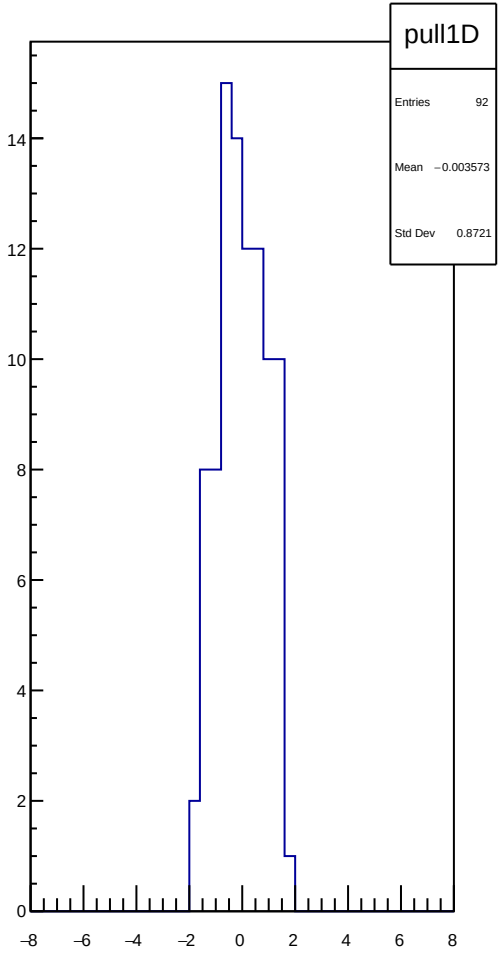

diff_bpm0i01Y_rms vs run
χ² / ndf 4.383e+04 / 91
p0 2592 ± 1.976
3200
3000
2800
2600
2400
2200
2000
1800

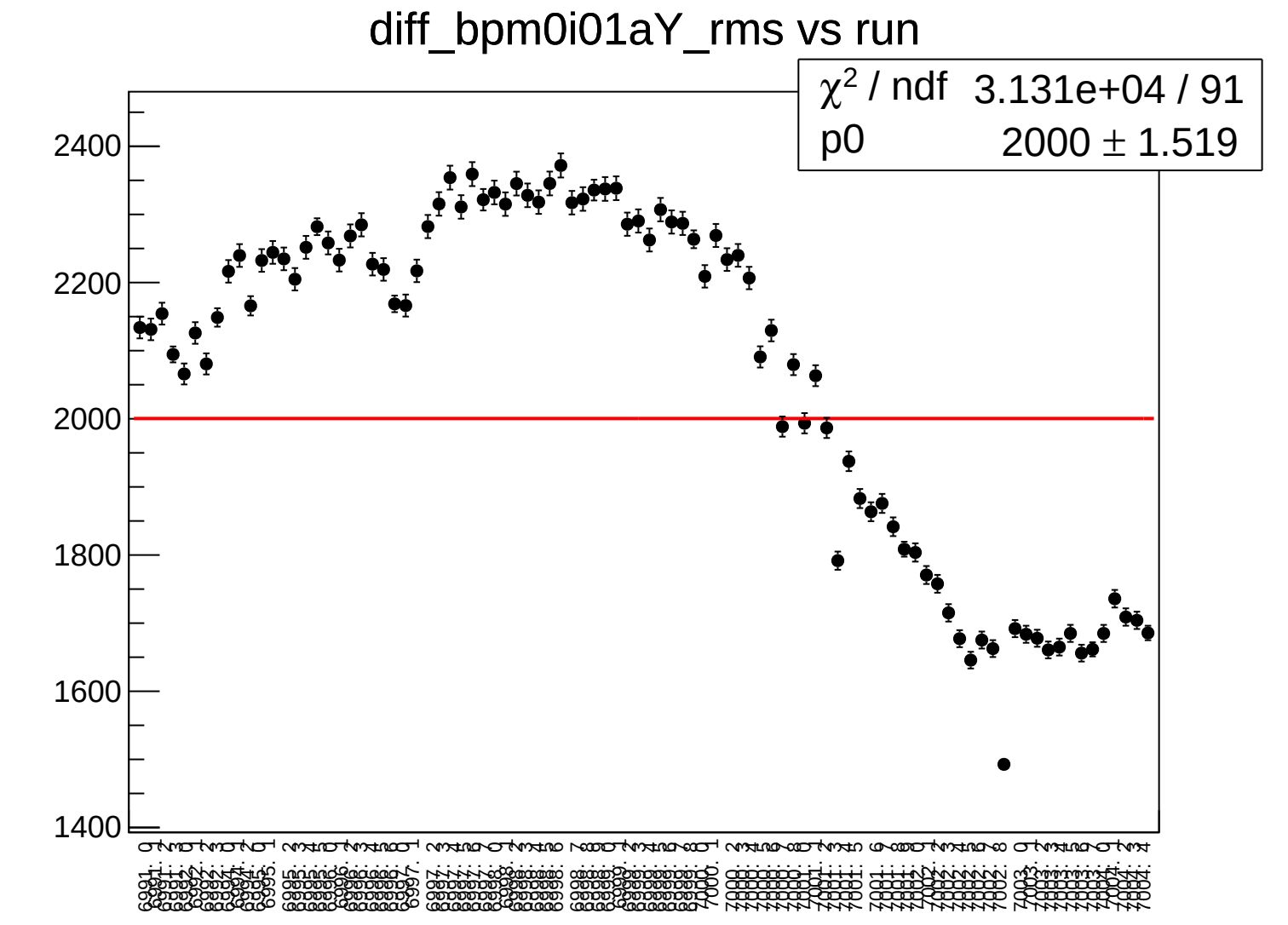

diff_bpm0i01aX_mean vs run
χ² / ndf 93.99 / 91
p0 17.4 ± 2.557
pull
Entries 92
Mean −1672
Std Dev 0

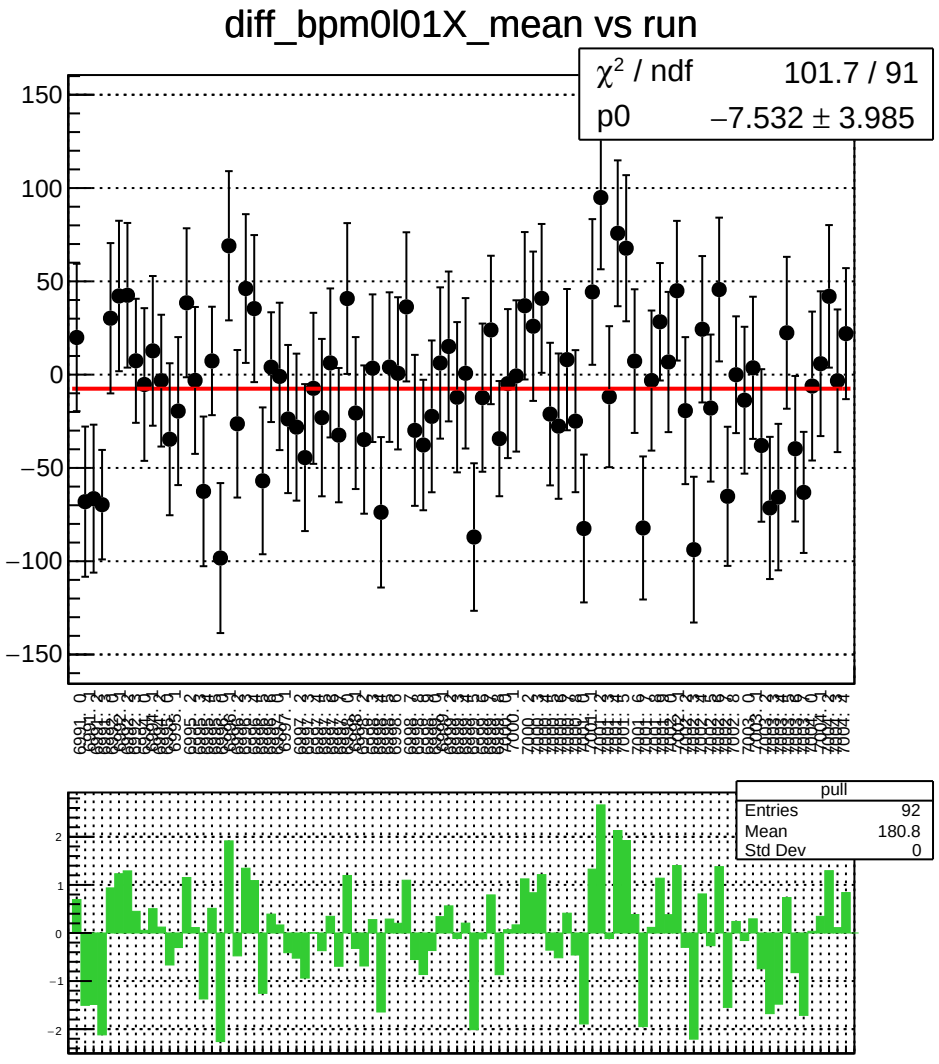

pull1D
Entries 92
Mean −0.0004848
Std Dev 1.011

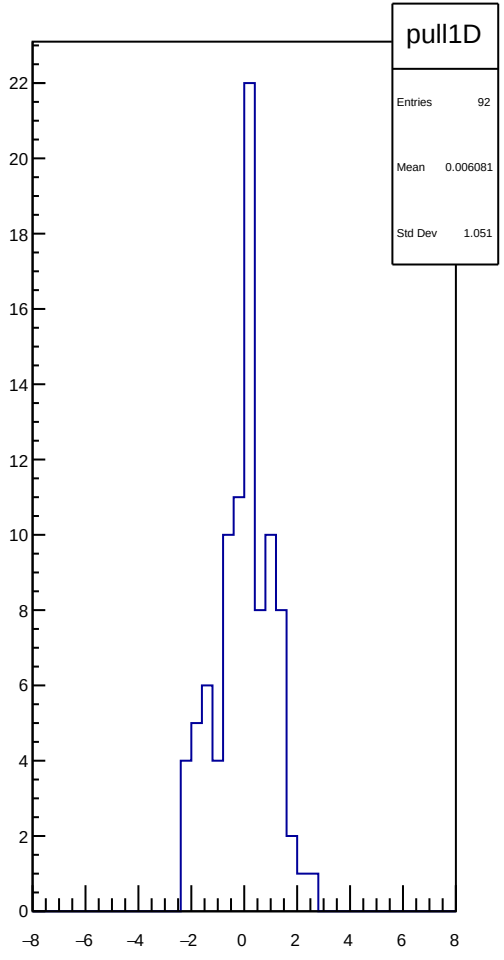

diff_bpm0i01aX_rms vs run
χ² / ndf 8.416e+04 / 91
p0 2345 ± 1.808
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

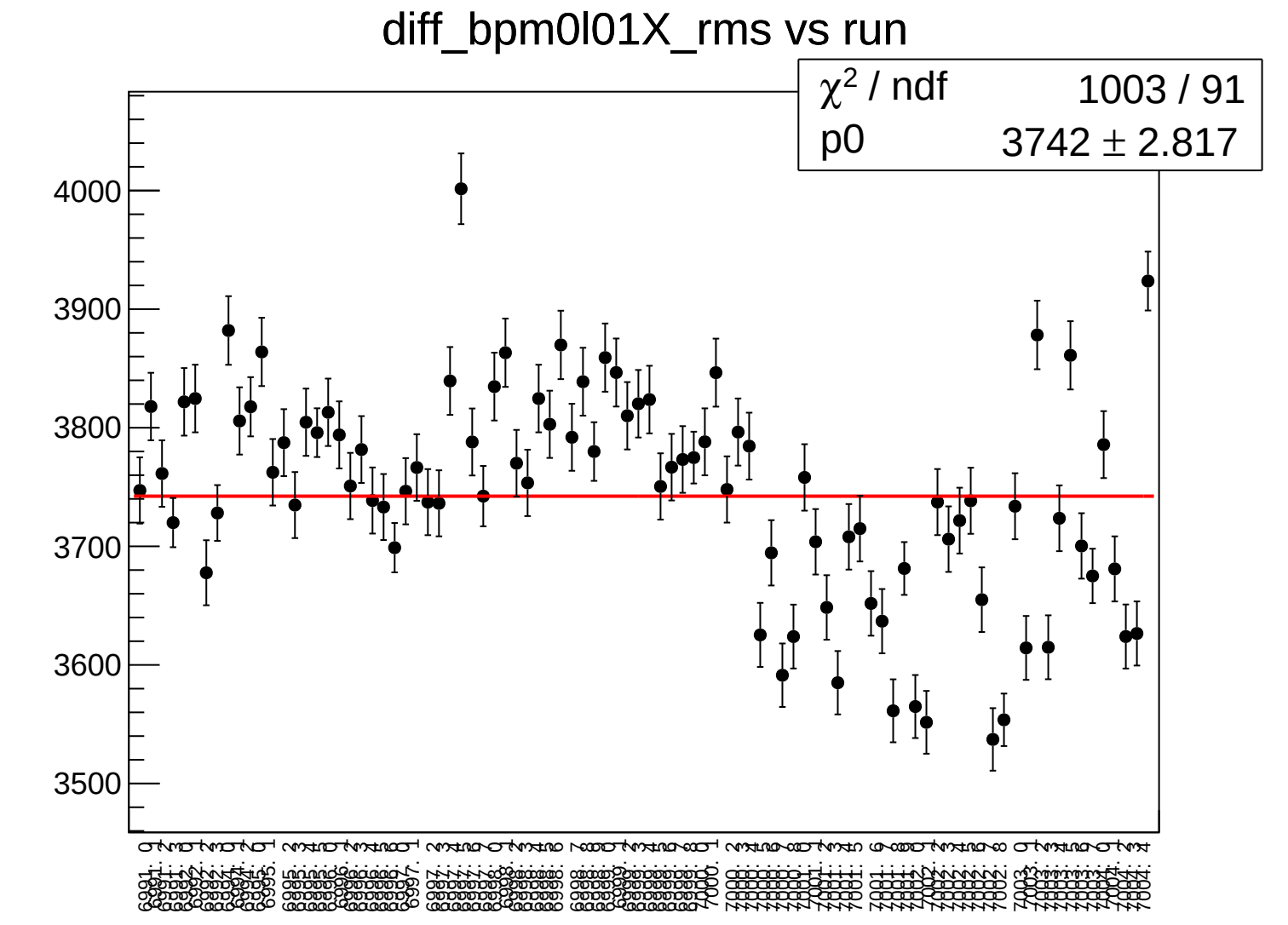

diff_bpm0i01aY_mean vs run
χ² / ndf 69.97 / 91
p0 −4.545 ± 2.148
pull
Entries 92
Mean −412.7
Std Dev 0

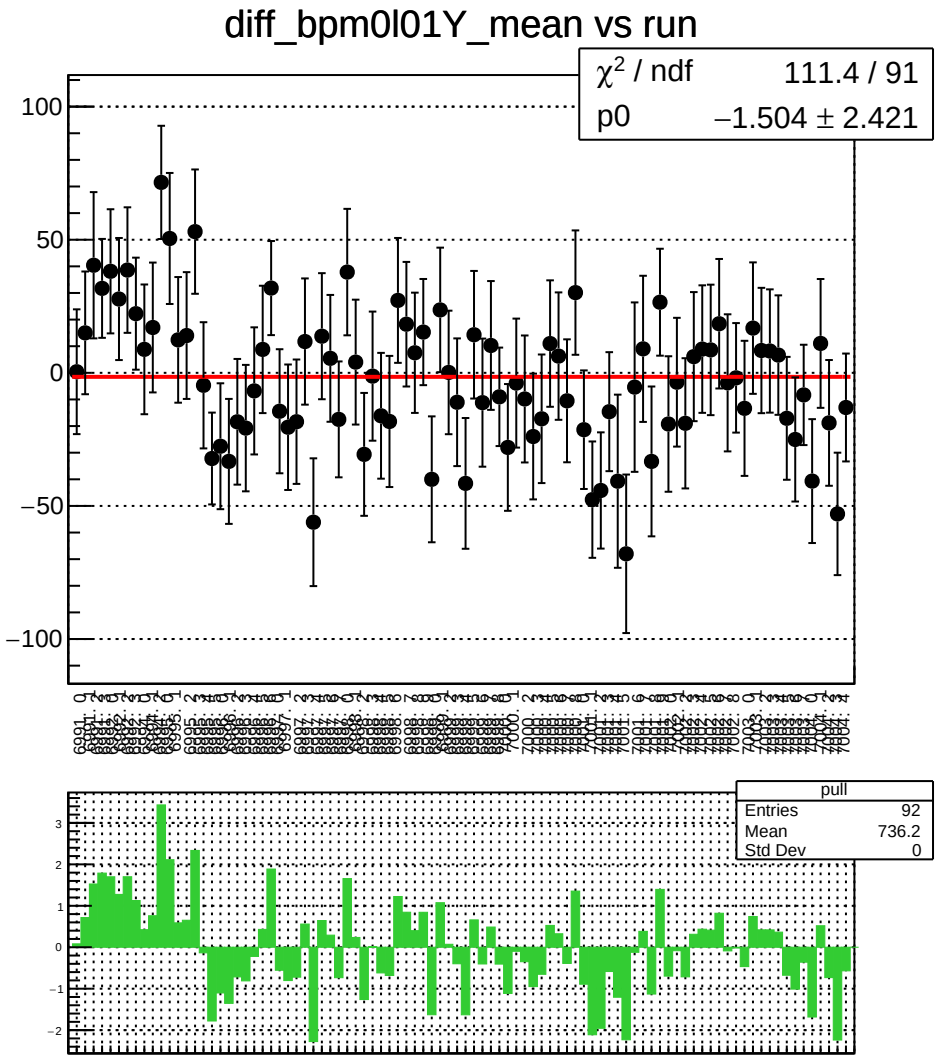

pull1D
Entries 92
Mean −0.003573
Std Dev 0.8721

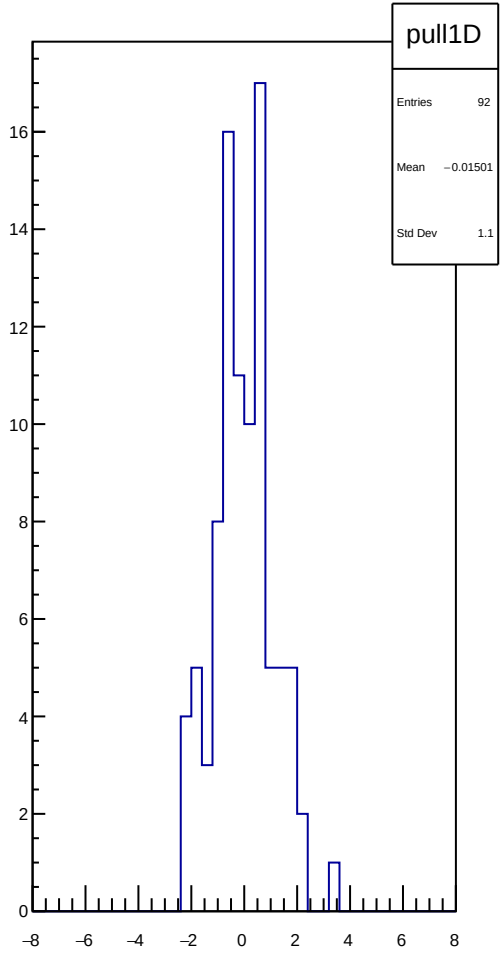

diff_bpm0i01aY_rms vs run
χ² / ndf 3.131e+04 / 91
p0 2000 ± 1.519
2400
2200
2000
1800
1600
1400

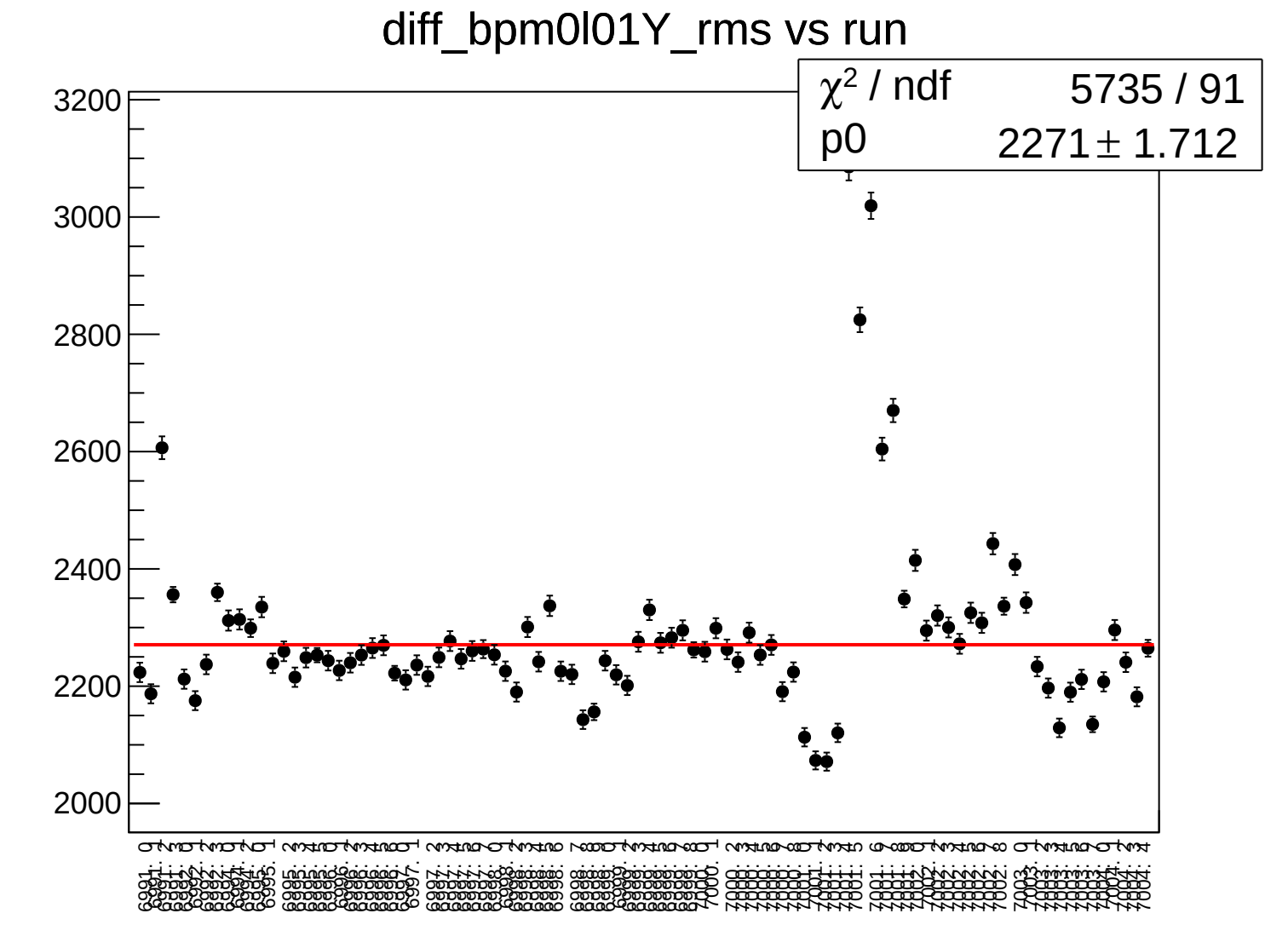

diff_bpm0l01X_mean vs run
χ² / ndf 101.7 / 91
p0 −7.532 ± 3.985
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 180.8
Std Dev 0
2
1
0
−1
−2

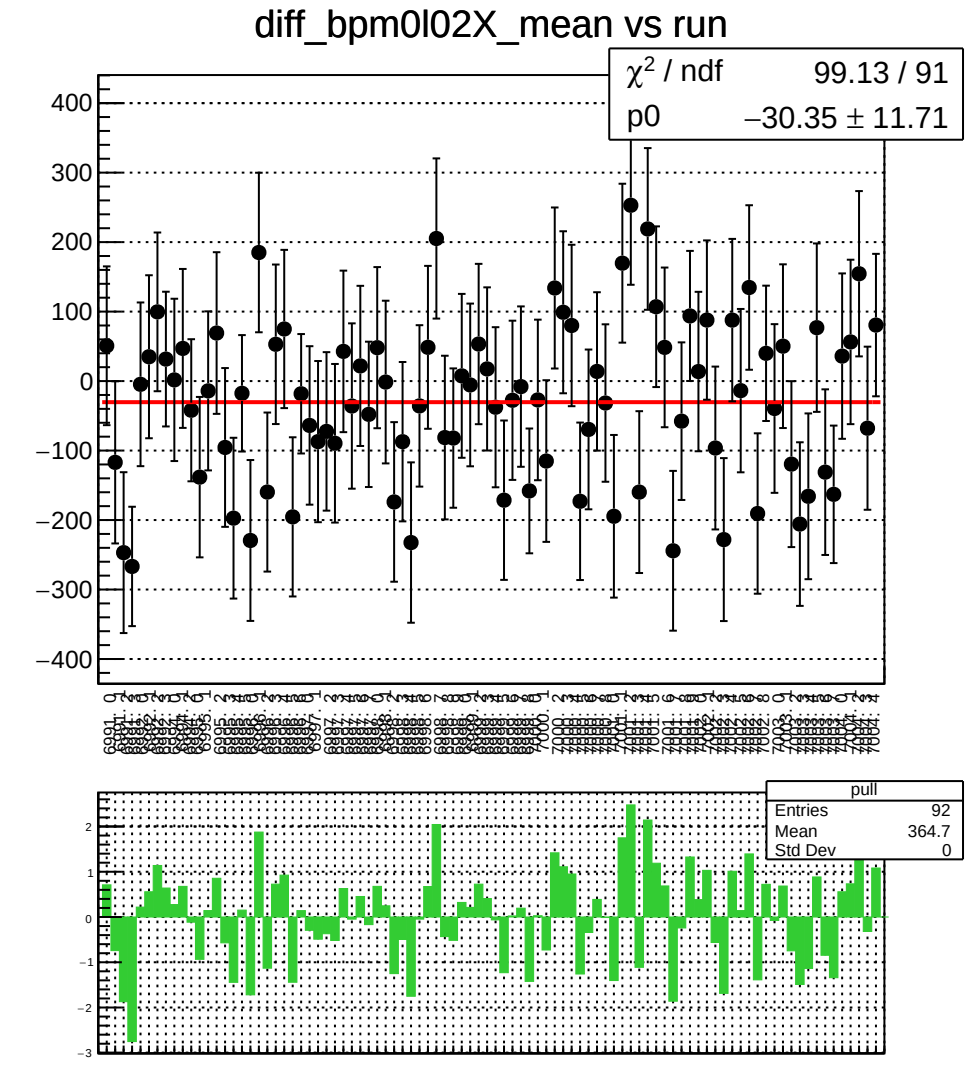

pull1D
Entries 92
Mean 0.006081
Std Dev 1.051
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

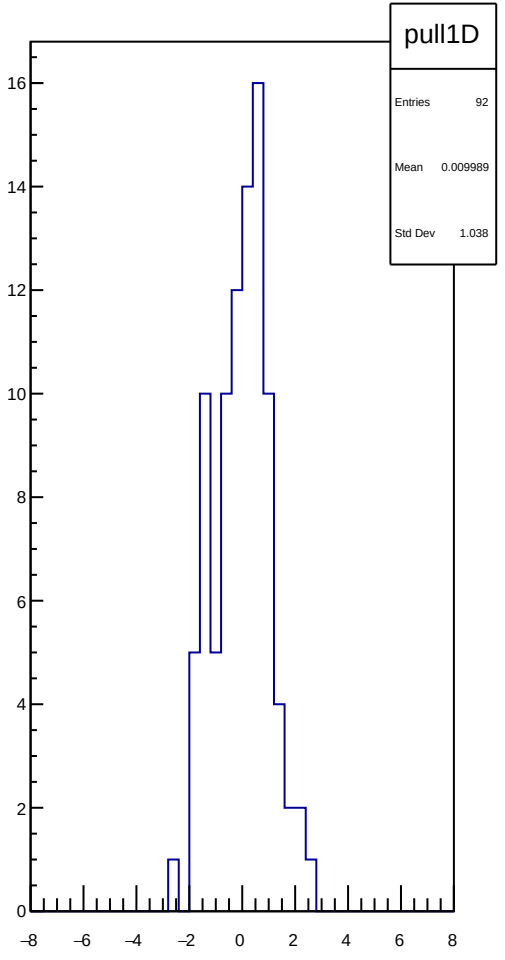

diff_bpm0l01X_rms vs run
χ² / ndf 1003 / 91
p0 3742 ± 2.817
4000
3900
3800
3700
3600
3500

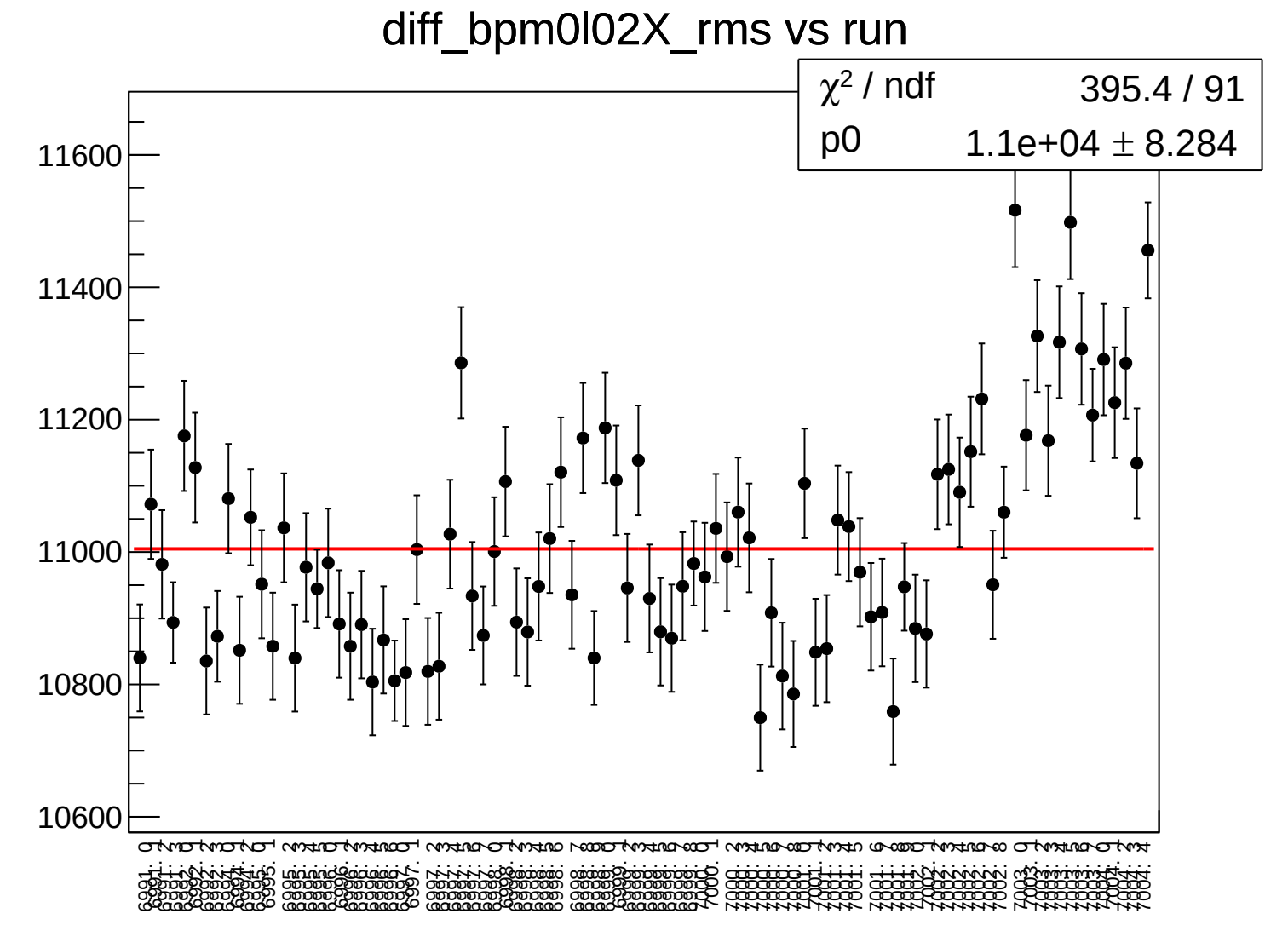

diff_bpm0l01Y_mean vs run
χ² / ndf 111.4 / 91
p0 −1.504 ± 2.421
100
50
0
−50
−100
pull
Entries 92
Mean 736.2
Std Dev 0
3
2
1
0
−1

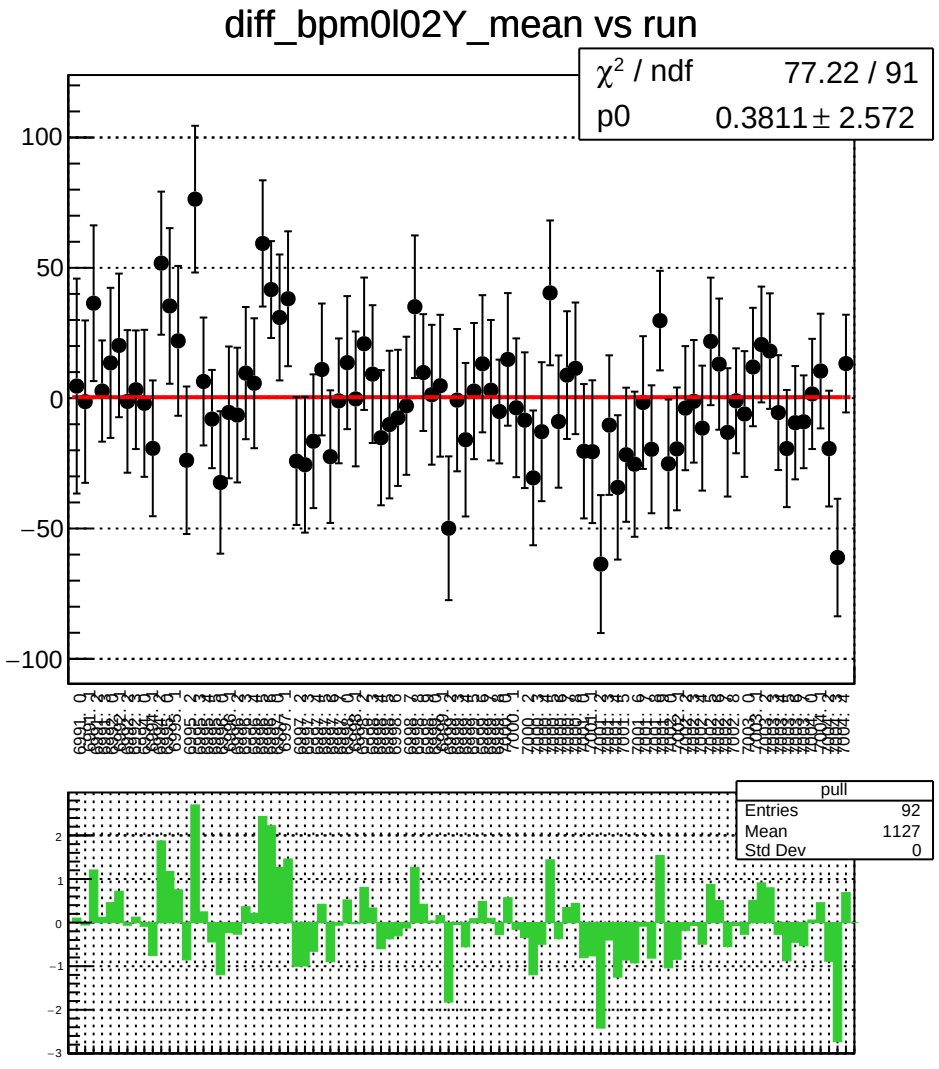

pull1D
Entries 92
Mean −0.01501
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

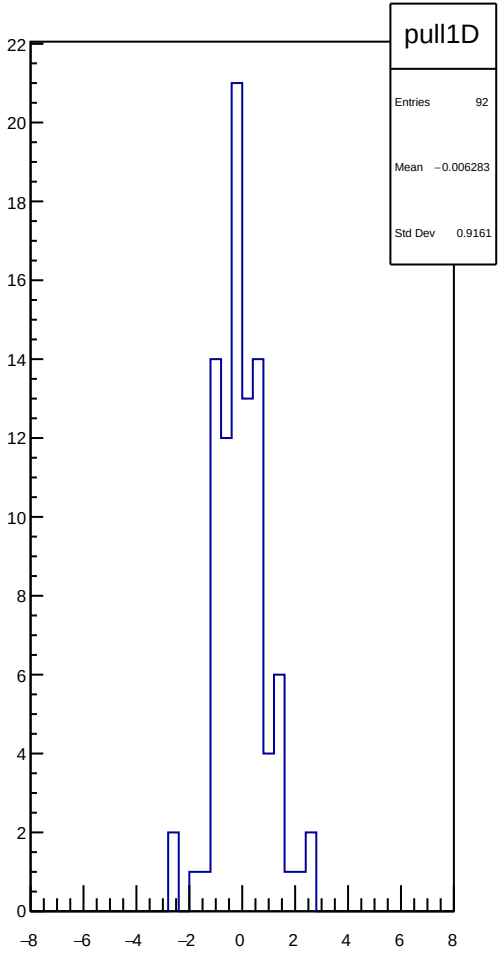

diff_bpm0l01Y_rms vs run
χ² / ndf 5735 / 91
p0 2271 ± 1.712
3200
3000
2800
2600
2400
2200
2000

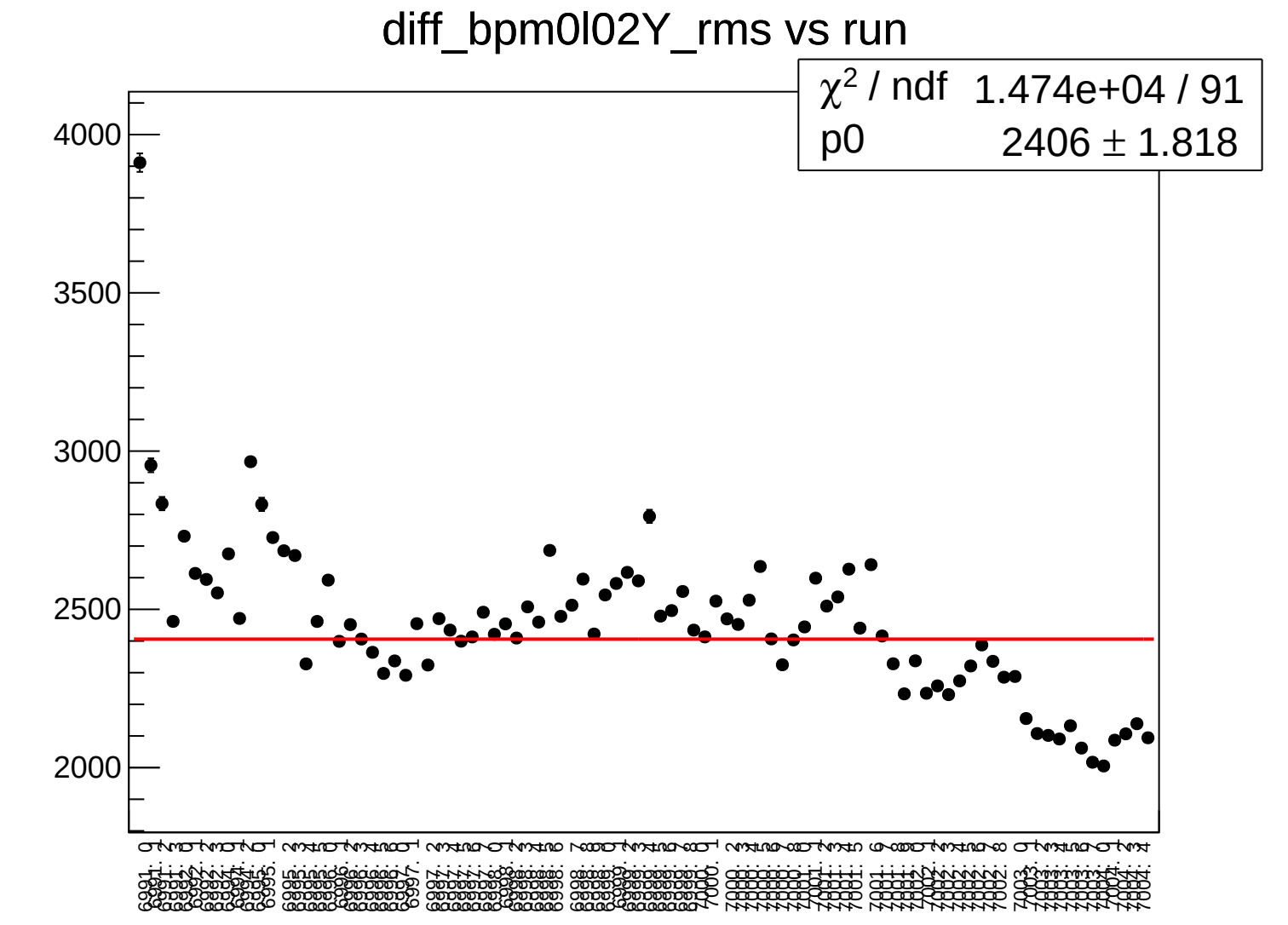

diff_bpm0l02X_mean vs run
χ² / ndf 99.13 / 91
p0 −30.35 ± 11.71
pull
Entries 92
Mean 364.7
Std Dev 0

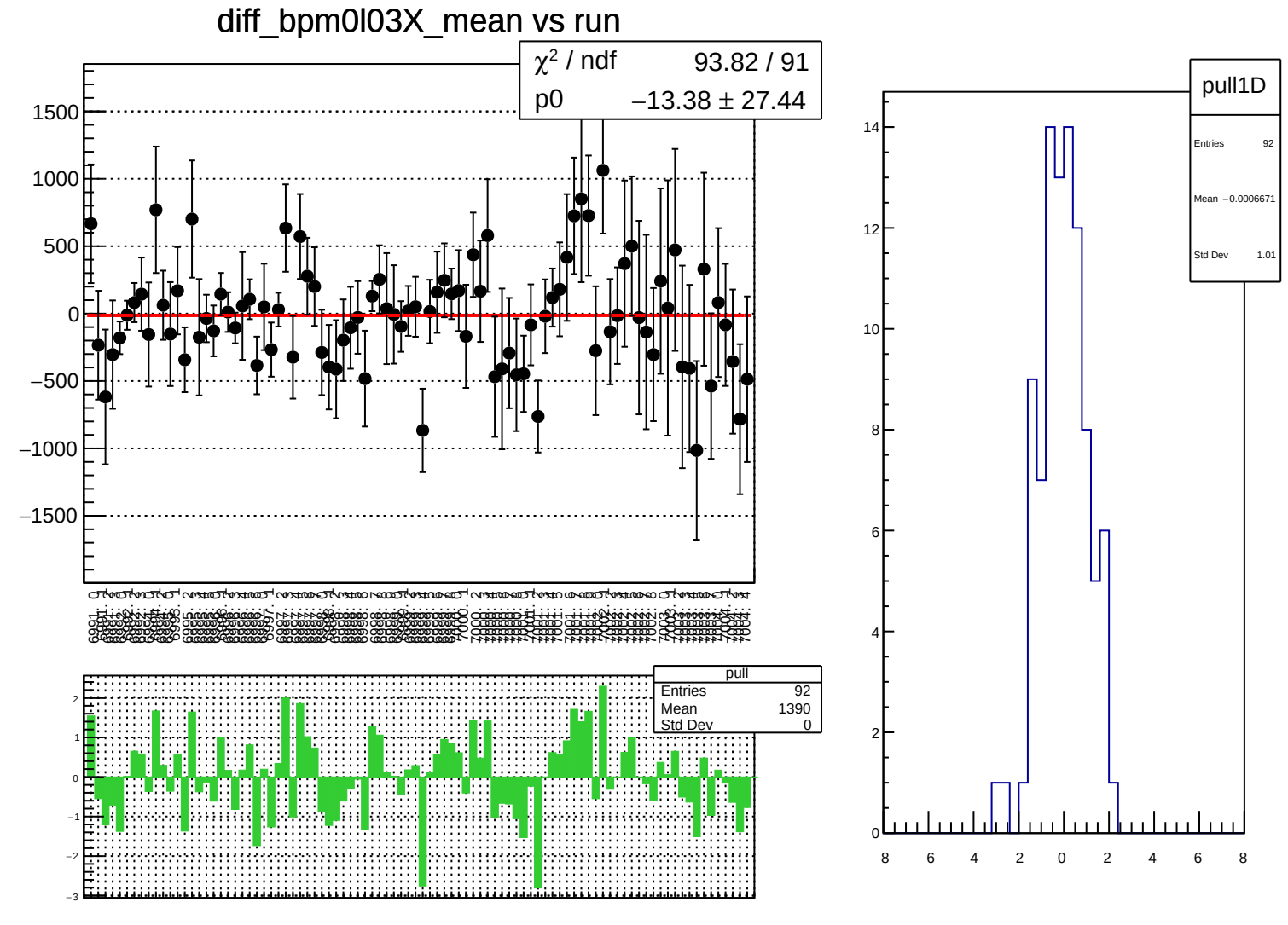

pull1D
Entries 92
Mean 0.009989
Std Dev 1.038

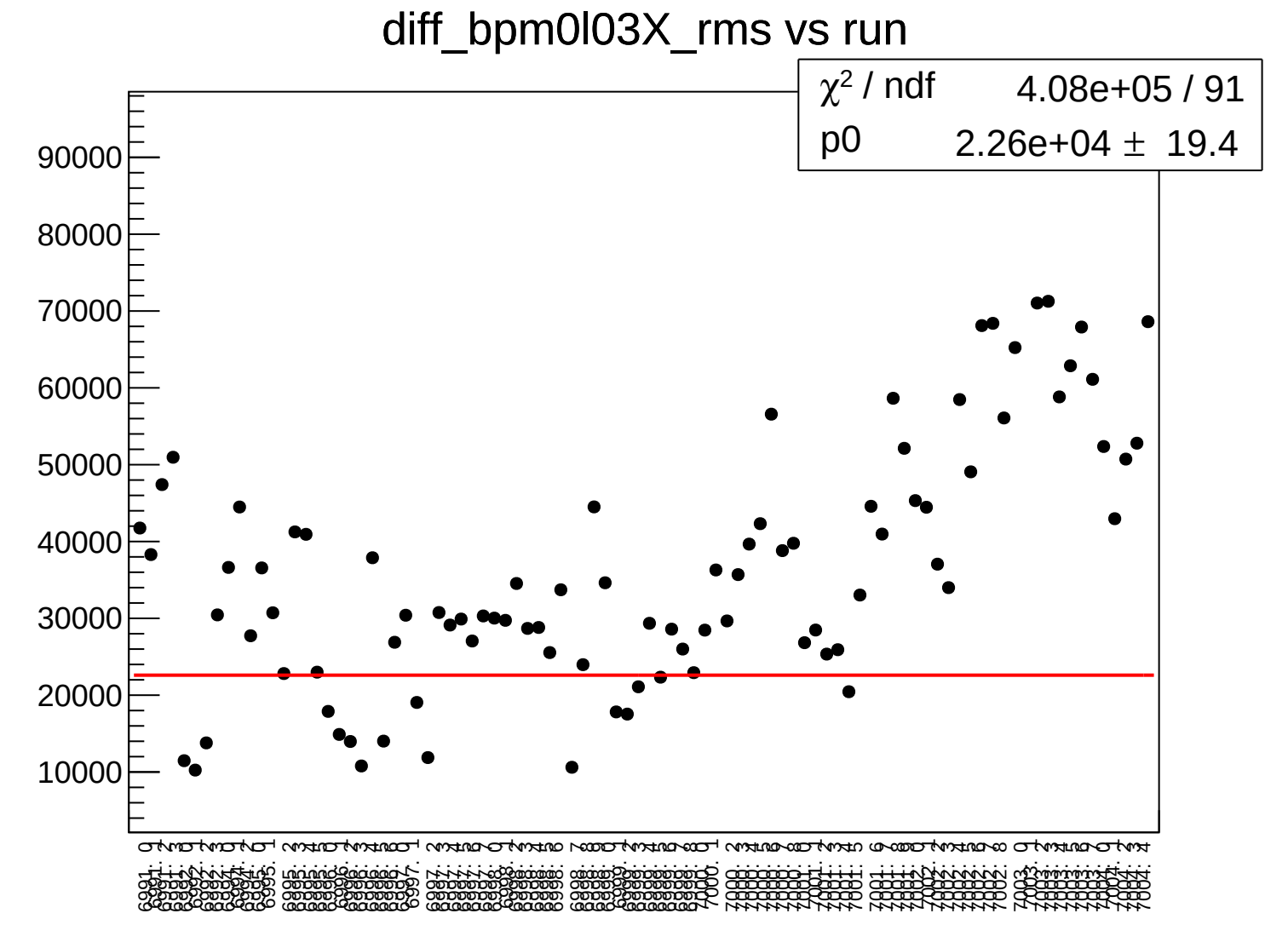

diff_bpm0l02X_rms vs run
χ² / ndf 395.4 / 91
p0 1.1e+04 ± 8.284
11600
11400
11200
11000
10800
10600

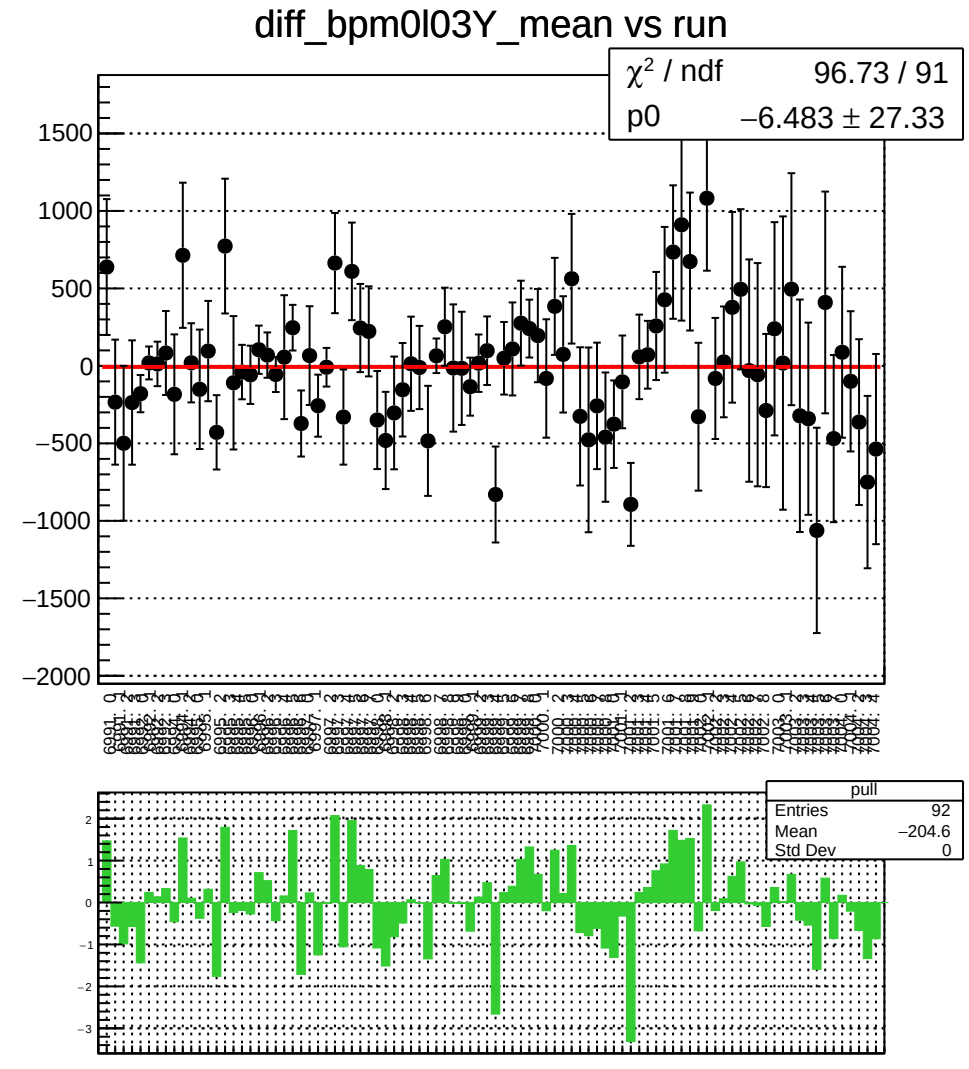

diff_bpm0l02Y_mean vs run
χ² / ndf 77.22 / 91
p0 0.3811 ± 2.572
100
50
0
−50
−100
pull
Entries 92
Mean 1127
Std Dev 0
2
1
0
−1
−2
−3

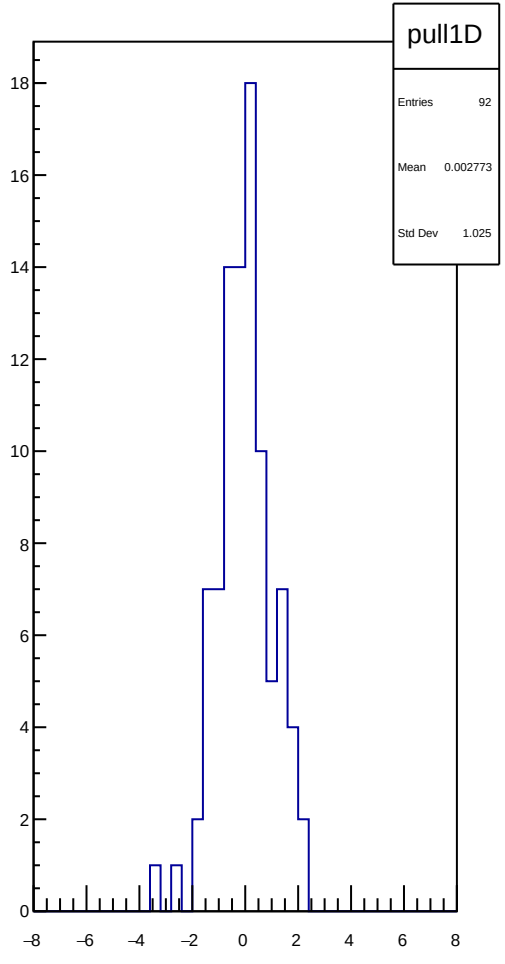

pull1D
Entries 92
Mean −0.006283
Std Dev 0.9161
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

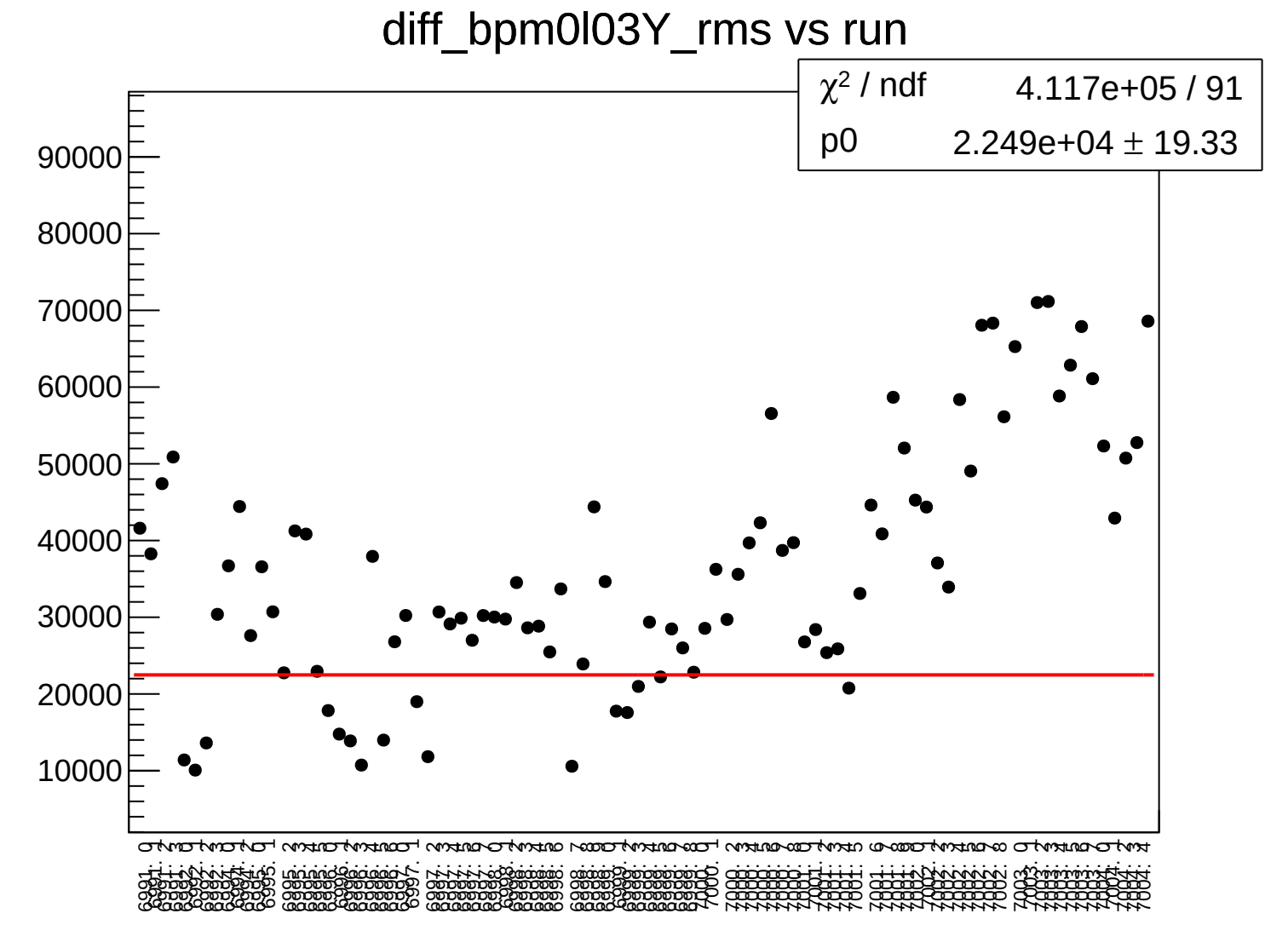

diff_bpm0l02Y_rms vs run
χ² / ndf 1.474e+04 / 91
p0 2406 ± 1.818
4000
3500
3000
2500
2000

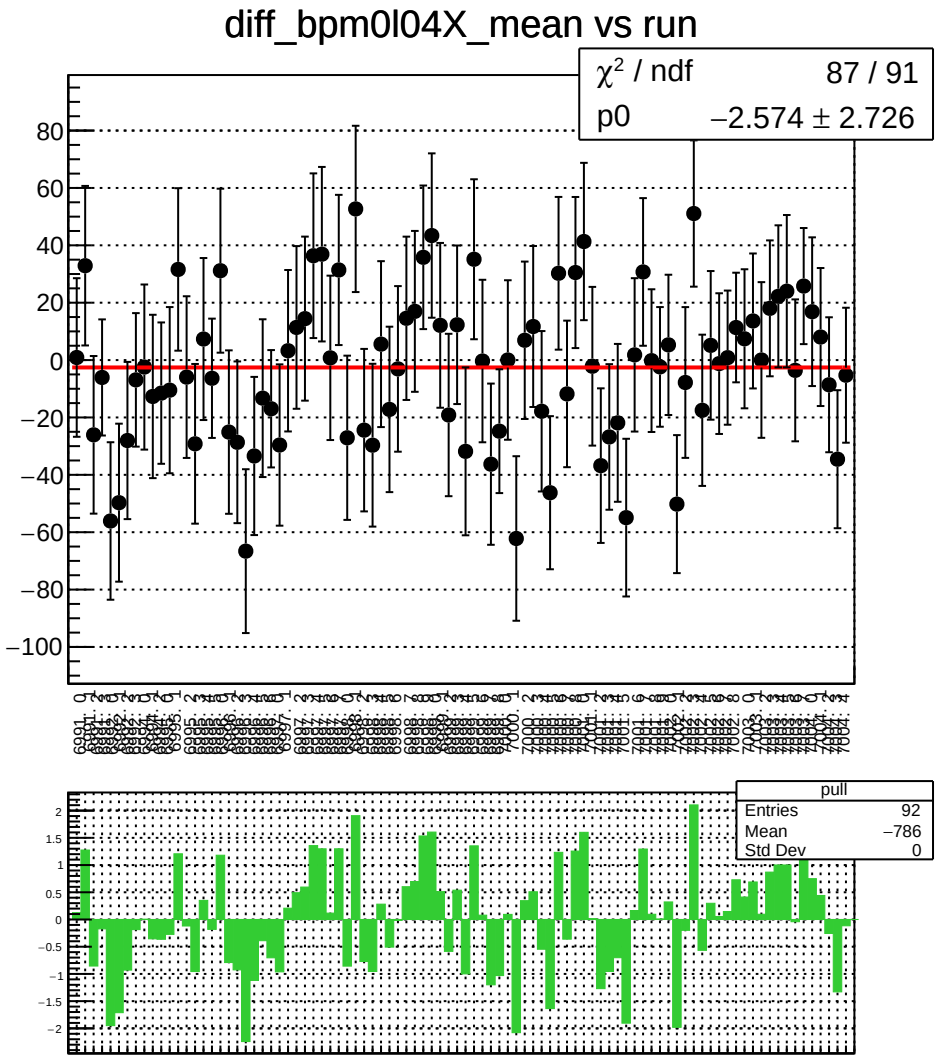

diff_bpm0l03X_mean vs run
χ² / ndf 93.82 / 91
p0 −13.38 ± 27.44
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean 1390
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0006671
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

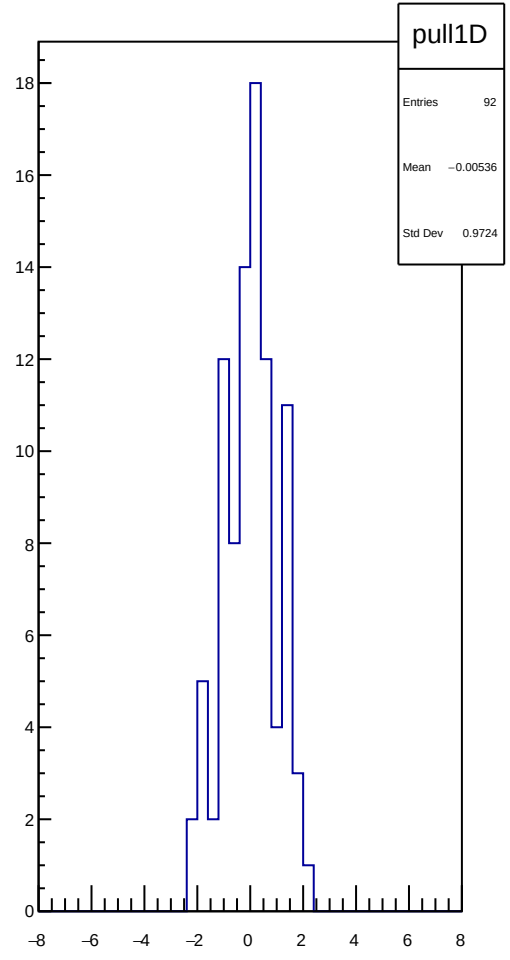

diff_bpm0l03X_rms vs run
χ² / ndf 4.08e+05 / 91
p0 2.26e+04 ± 19.4
90000
80000
70000
60000
50000
40000
30000
20000
10000

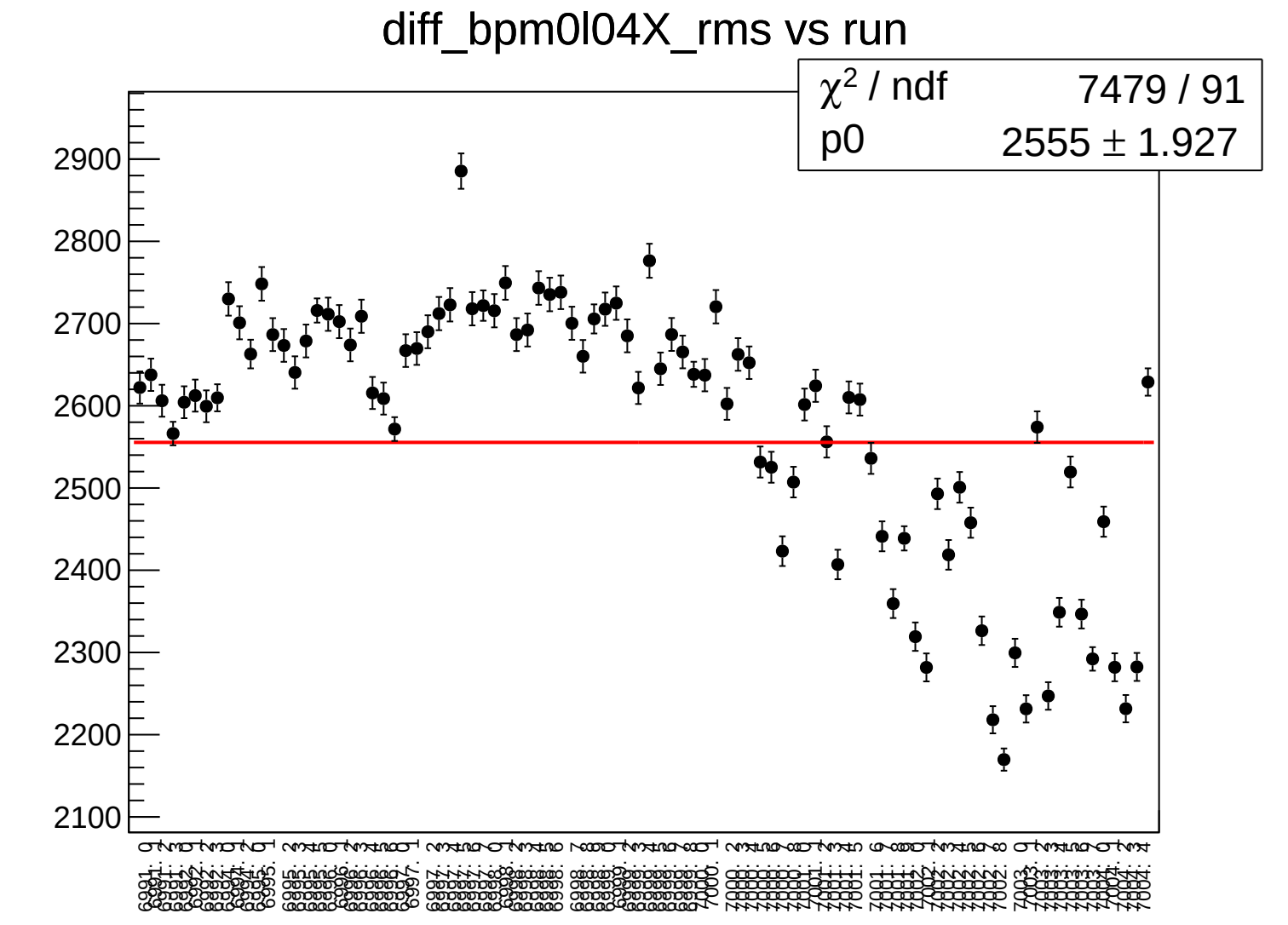

diff_bpm0l03Y_mean vs run
χ² / ndf 96.73 / 91
p0 −6.483 ± 27.33
pull
Entries 92
Mean −204.6
Std Dev 0

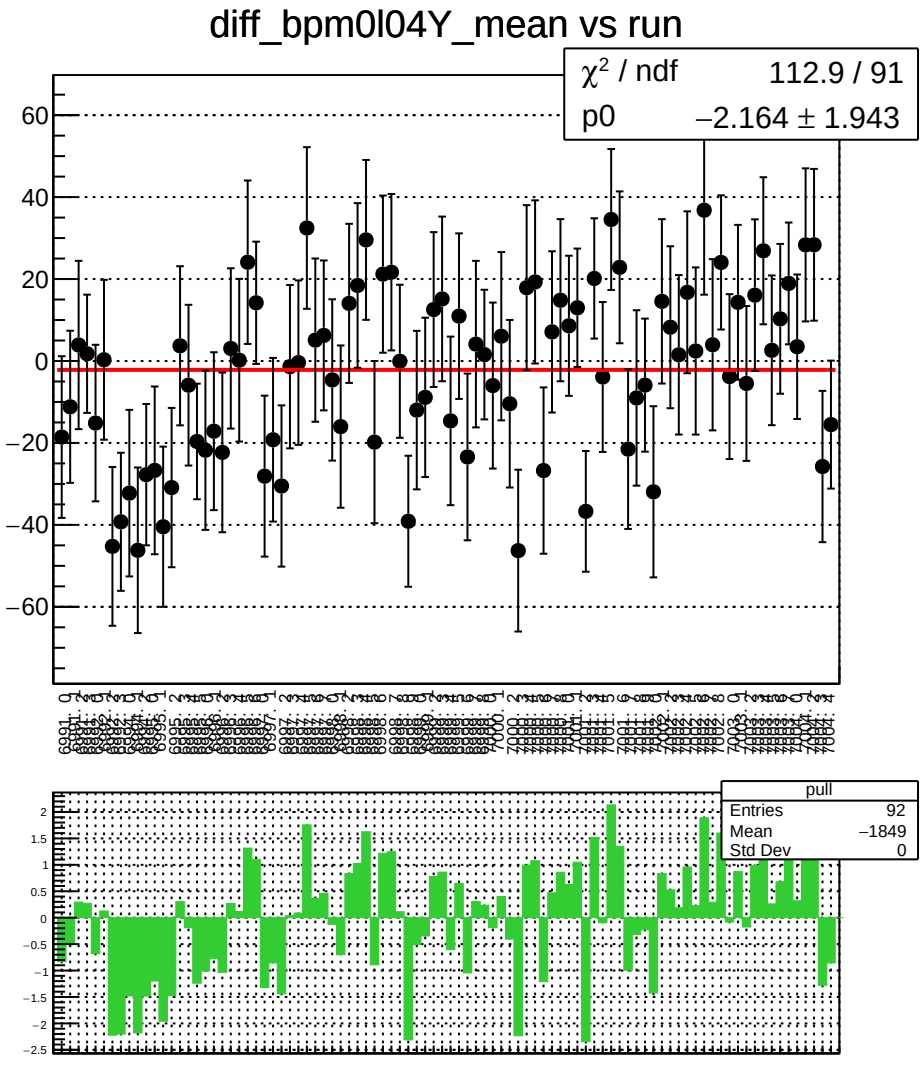

pull1D
Entries 92
Mean 0.002773
Std Dev 1.025

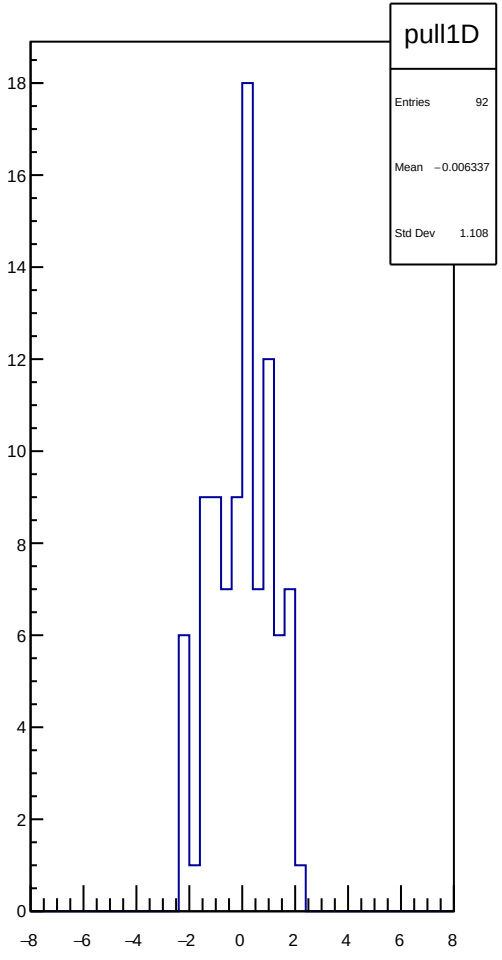

diff_bpm0l03Y_rms vs run
χ² / ndf 4.117e+05 / 91
p0 2.249e+04 ± 19.33
90000
80000
70000
60000
50000
40000
30000
20000
10000

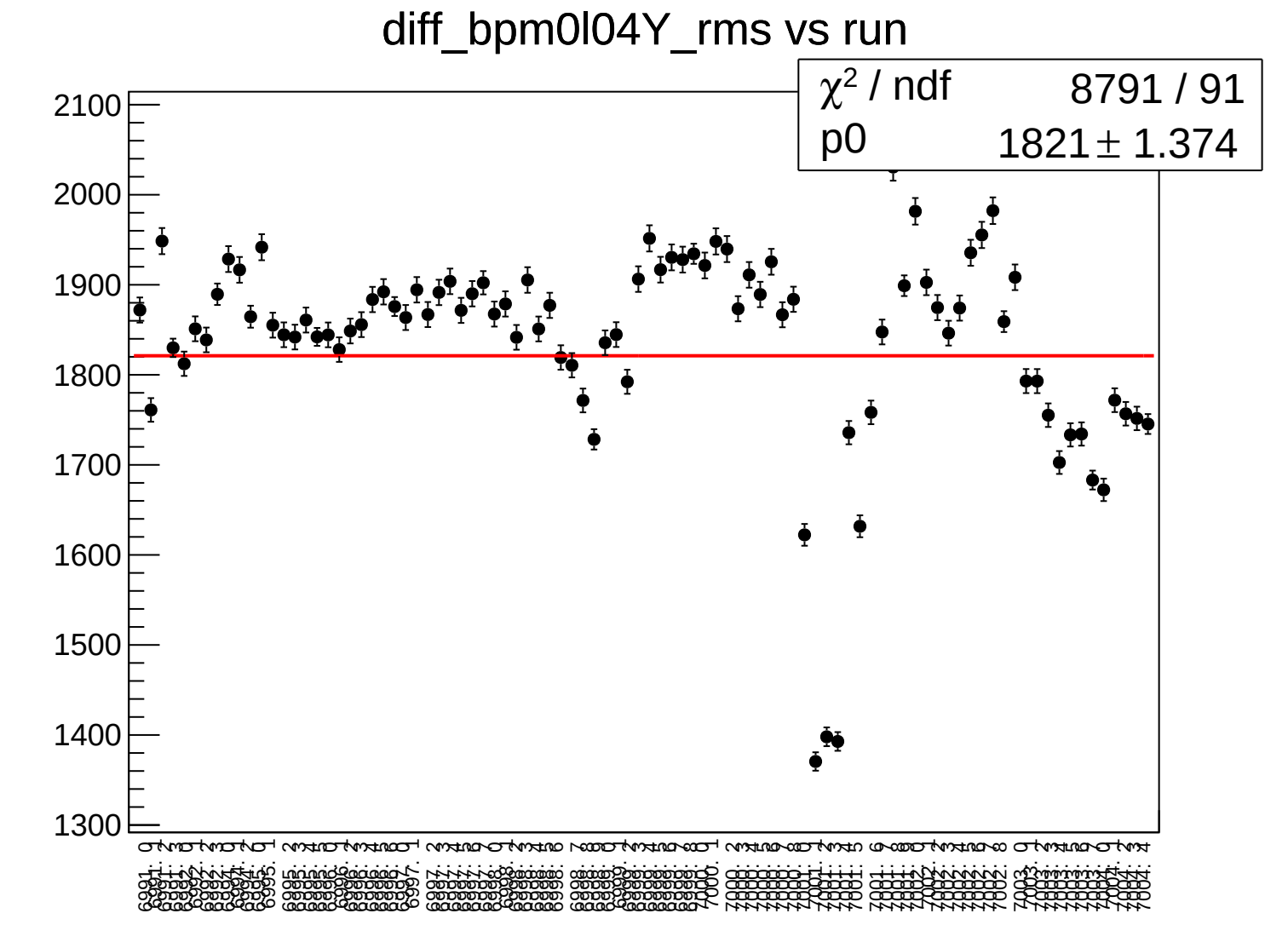

diff_bpm0l04X_mean vs run
χ² / ndf 87 / 91
p0 −2.574 ± 2.726
pull
Entries 92
Mean −786
Std Dev 0

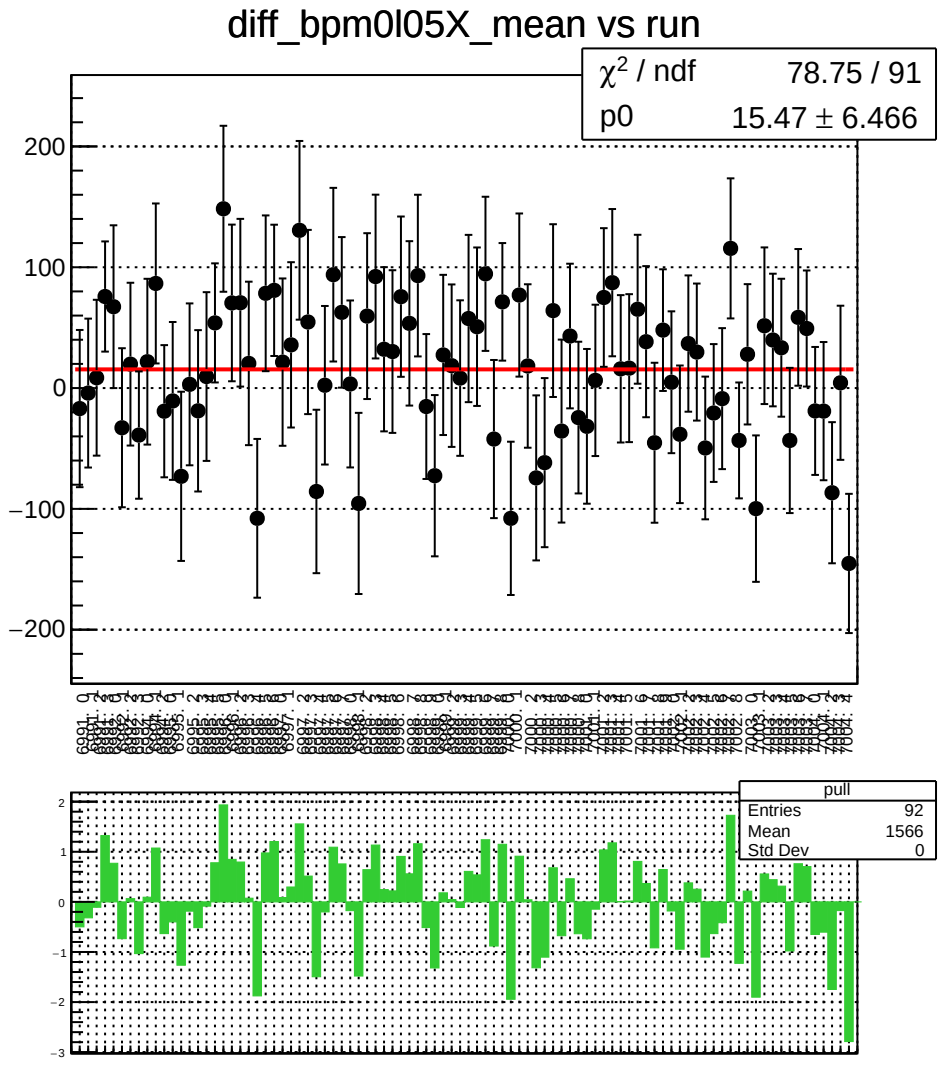

pull1D
Entries 92
Mean −0.00536
Std Dev 0.9724

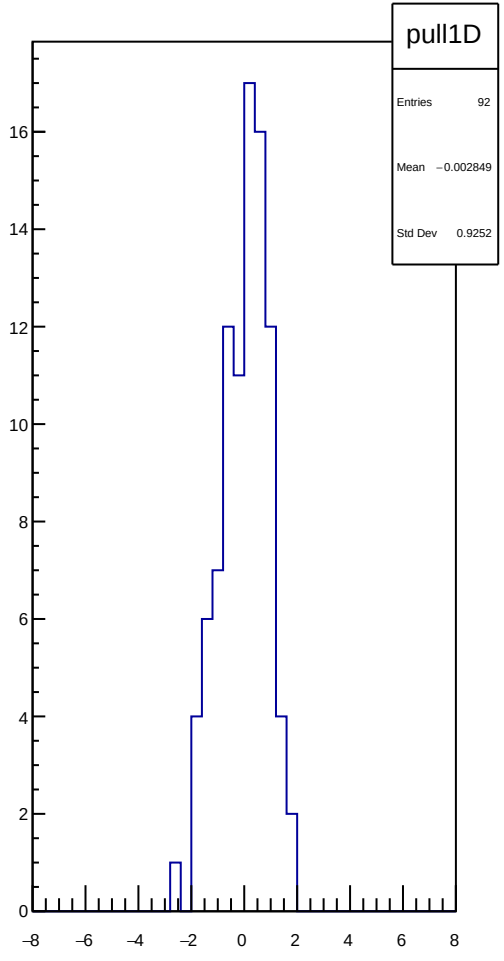

diff_bpm0l04X_rms vs run
χ² / ndf 7479 / 91
p0 2555 ± 1.927
2900
2800
2700
2600
2500
2400
2300
2200
2100

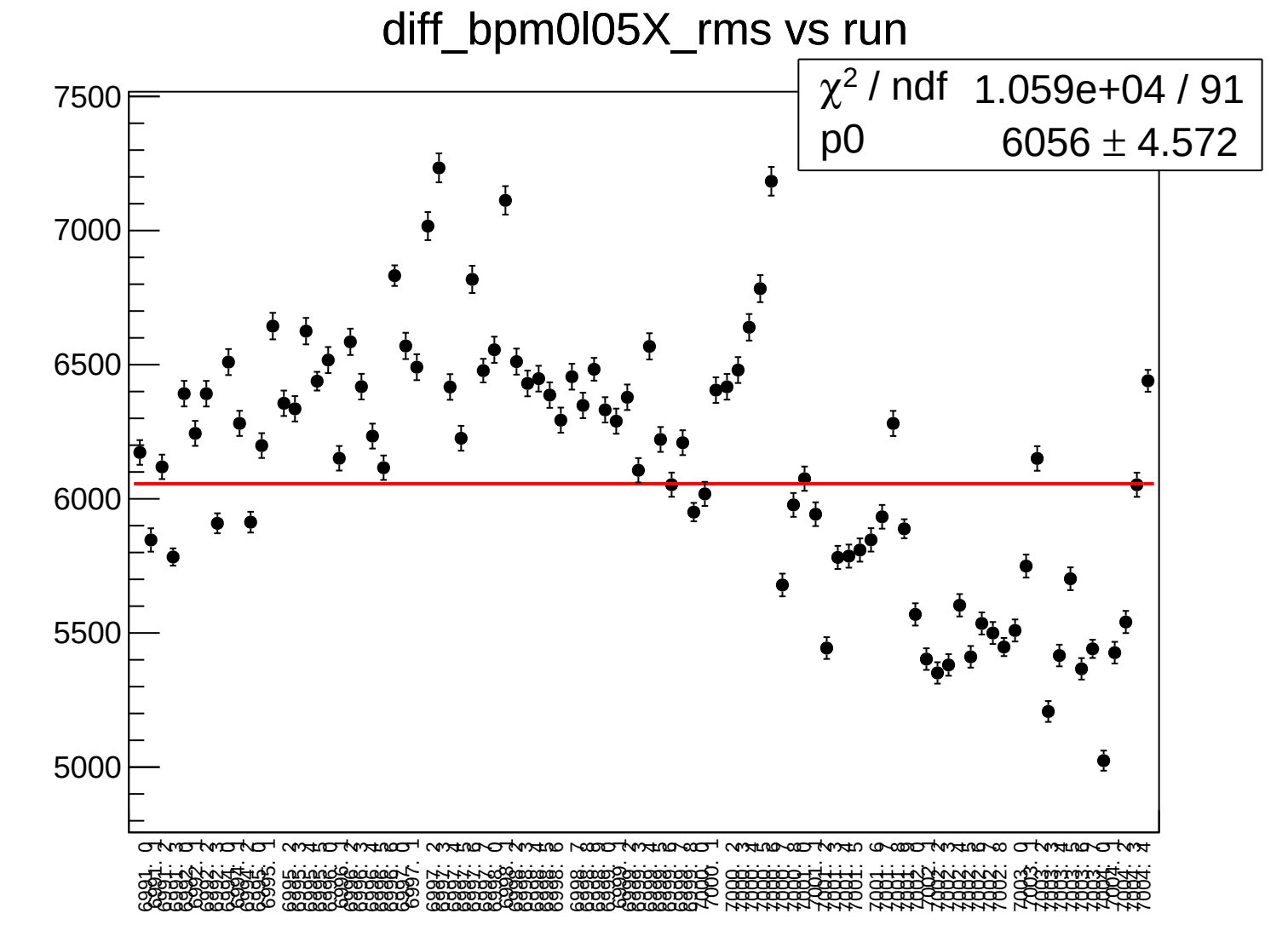

diff_bpm0l04Y_mean vs run
χ² / ndf 112.9 / 91
p0 −2.164 ± 1.943
pull
Entries 92
Mean −1849
Std Dev 0

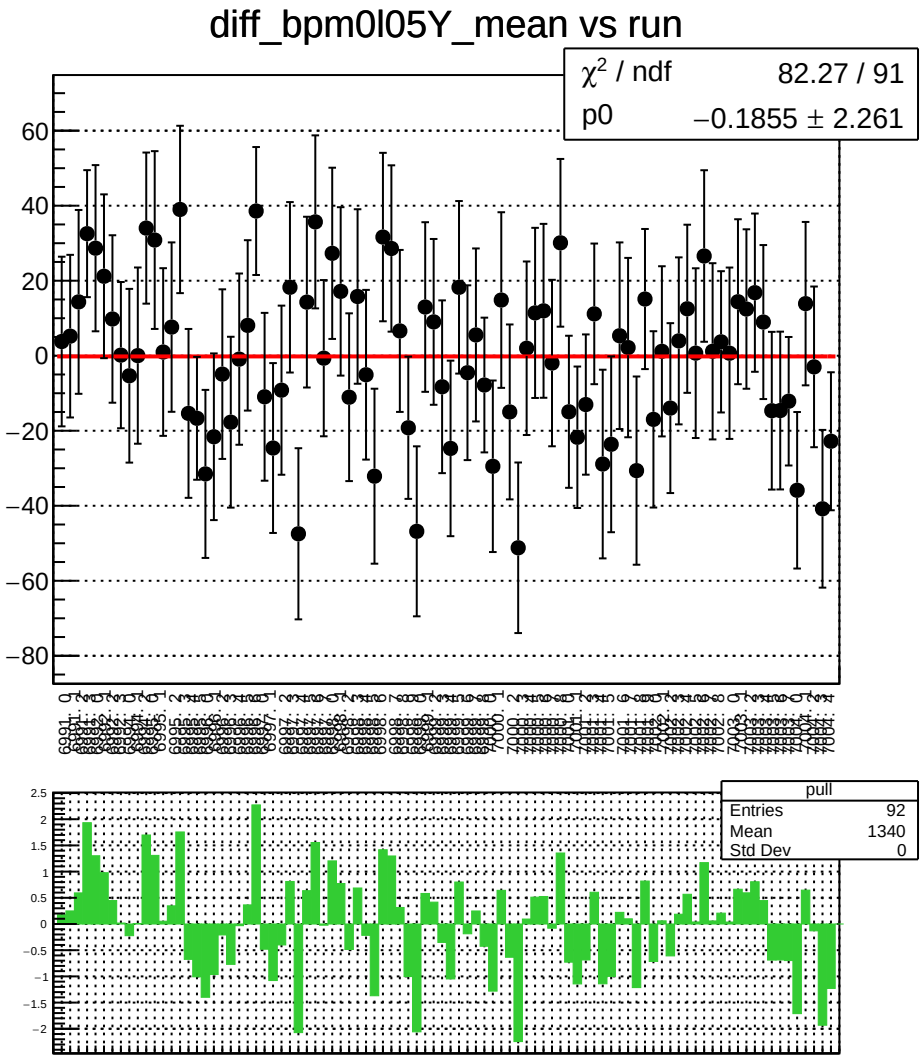

pull1D
Entries 92
Mean −0.006337
Std Dev 1.108

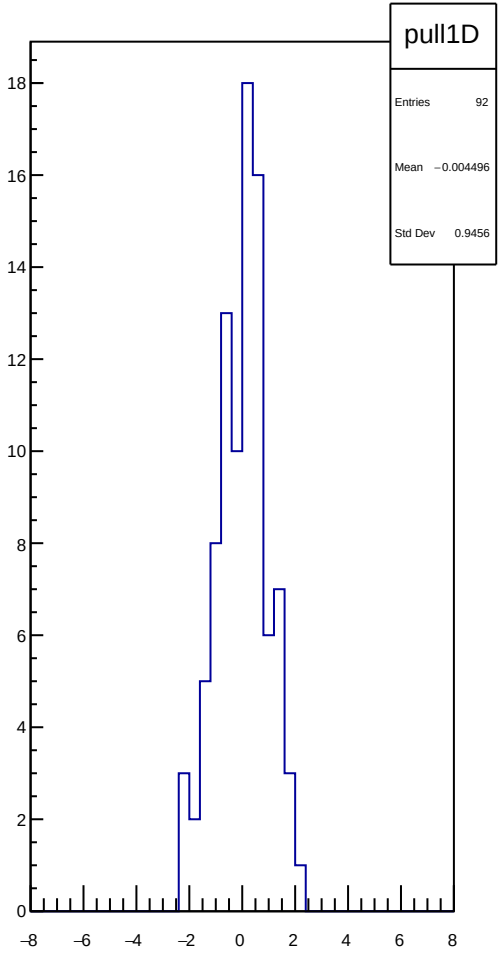

diff_bpm0l04Y_rms vs run
χ² / ndf 8791 / 91
p0 1821 ± 1.374
2100
2000
1900
1800
1700
1600
1500
1400
1300

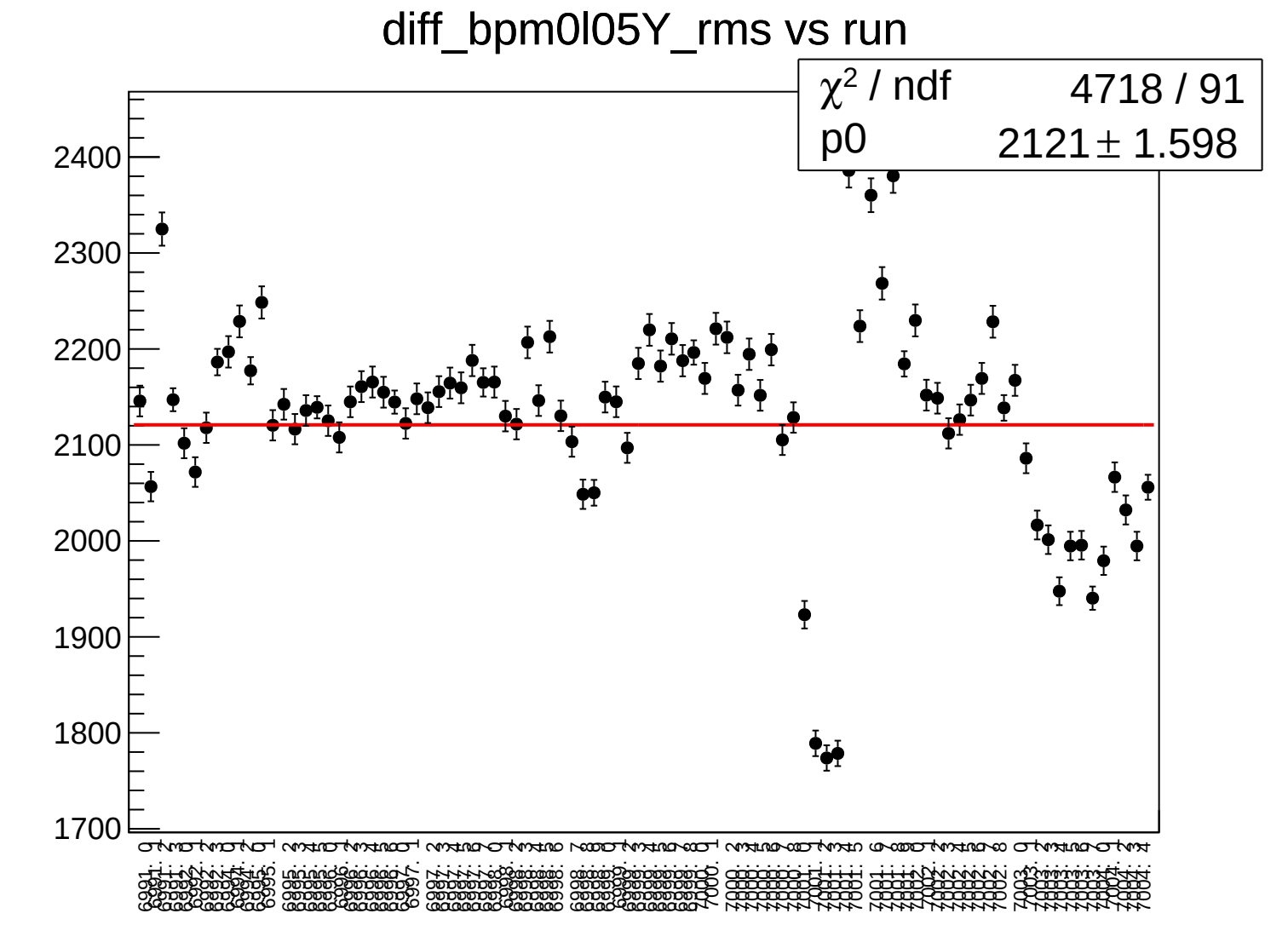

diff_bpm0l05X_mean vs run
χ² / ndf 78.75 / 91
p0 15.47 ± 6.466
200
100
0
−100
−200
pull
Entries 92
Mean 1566
Std Dev 0
2
1
0
−1
−2
−3

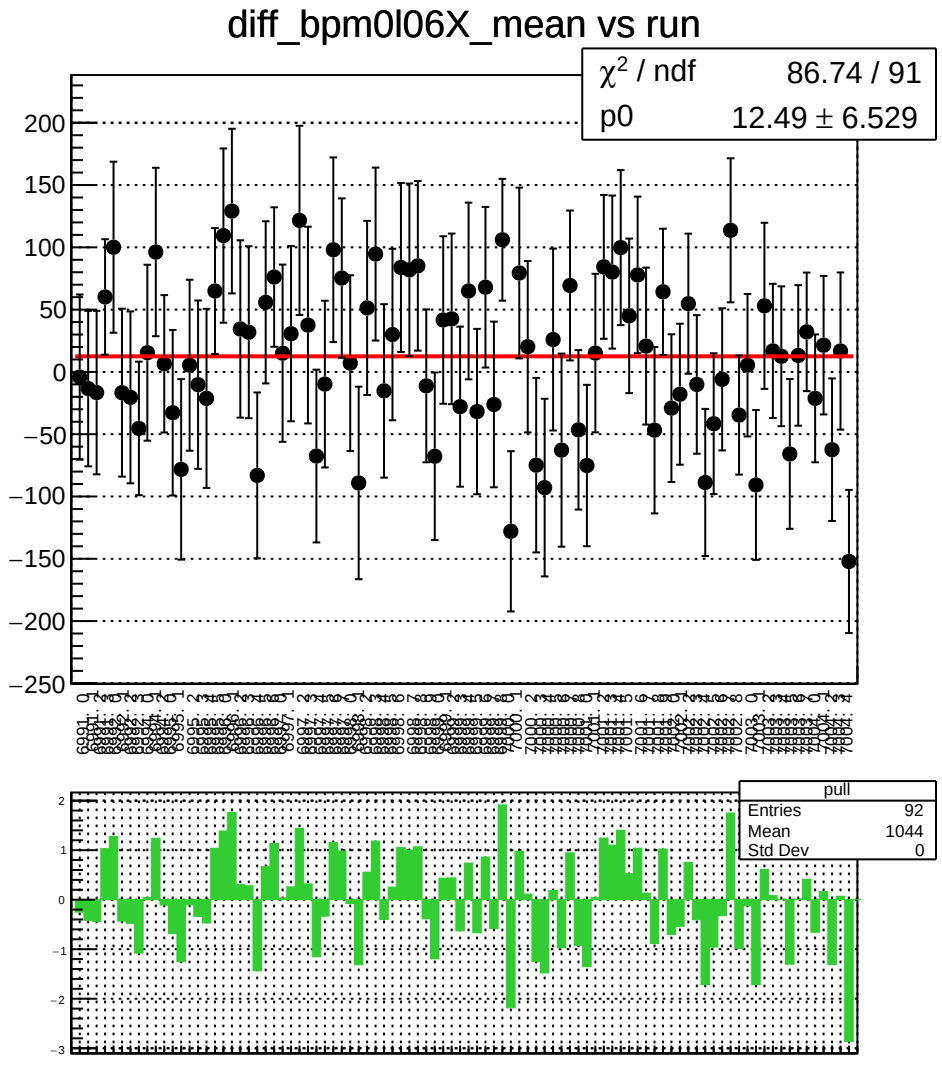

pull1D
Entries 92
Mean −0.002849
Std Dev 0.9252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

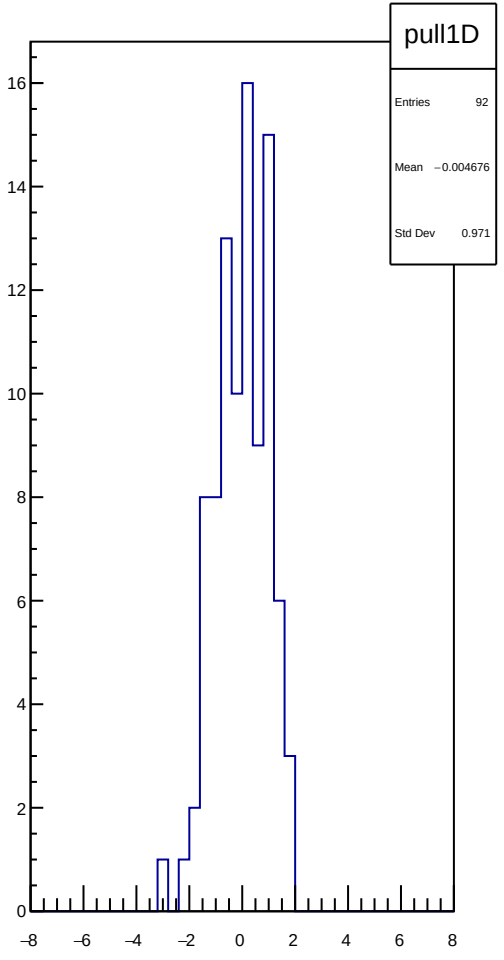

diff_bpm0l05X_rms vs run
χ^2 / ndf 1.059e+04 / 91
p0 6056 ± 4.572
7500
7000
6500
6000
5500
5000

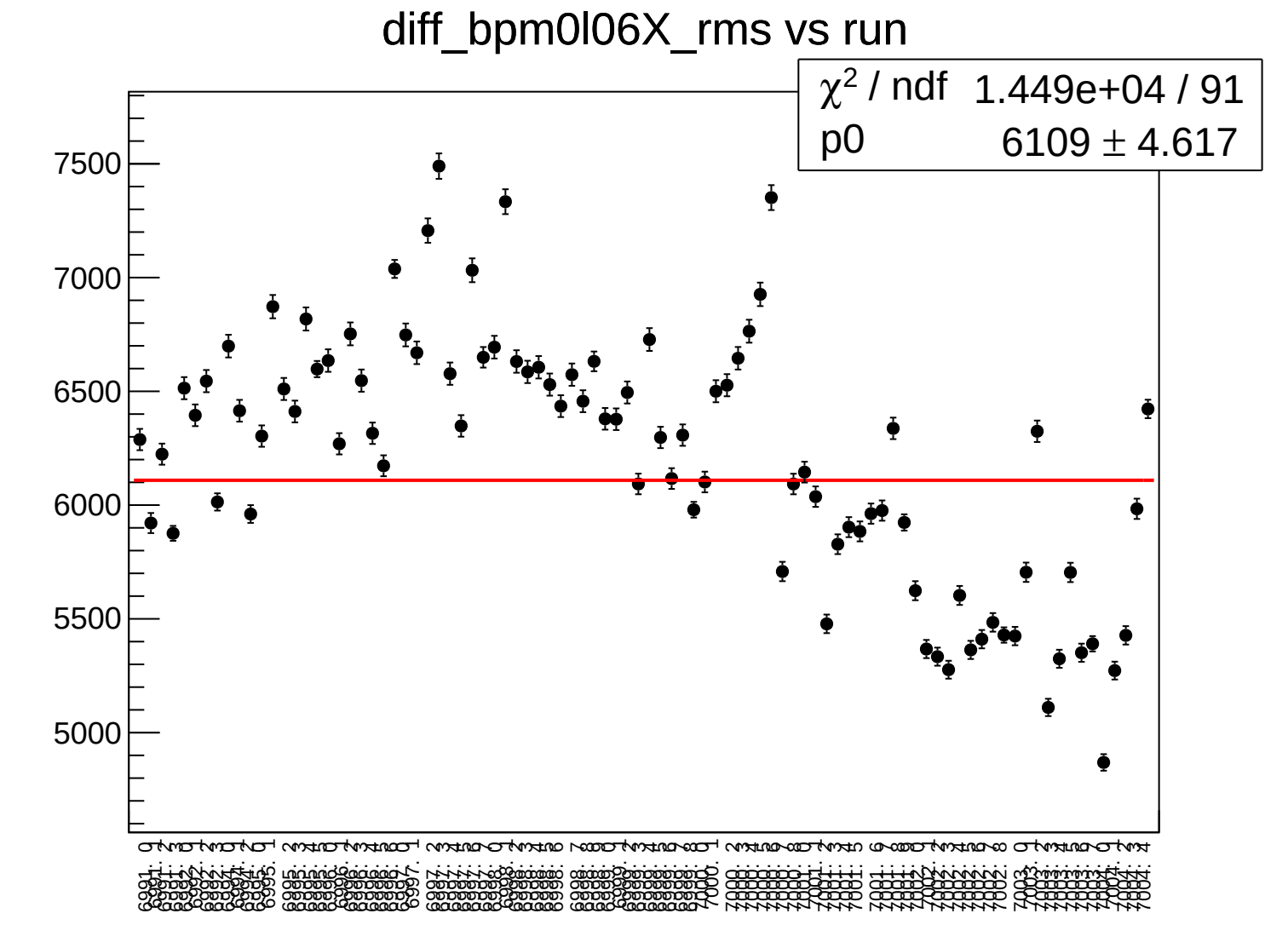

diff_bpm0l05Y_mean vs run
χ² / ndf 82.27 / 91
p0 −0.1855 ± 2.261
pull
Entries 92
Mean 1340
Std Dev 0

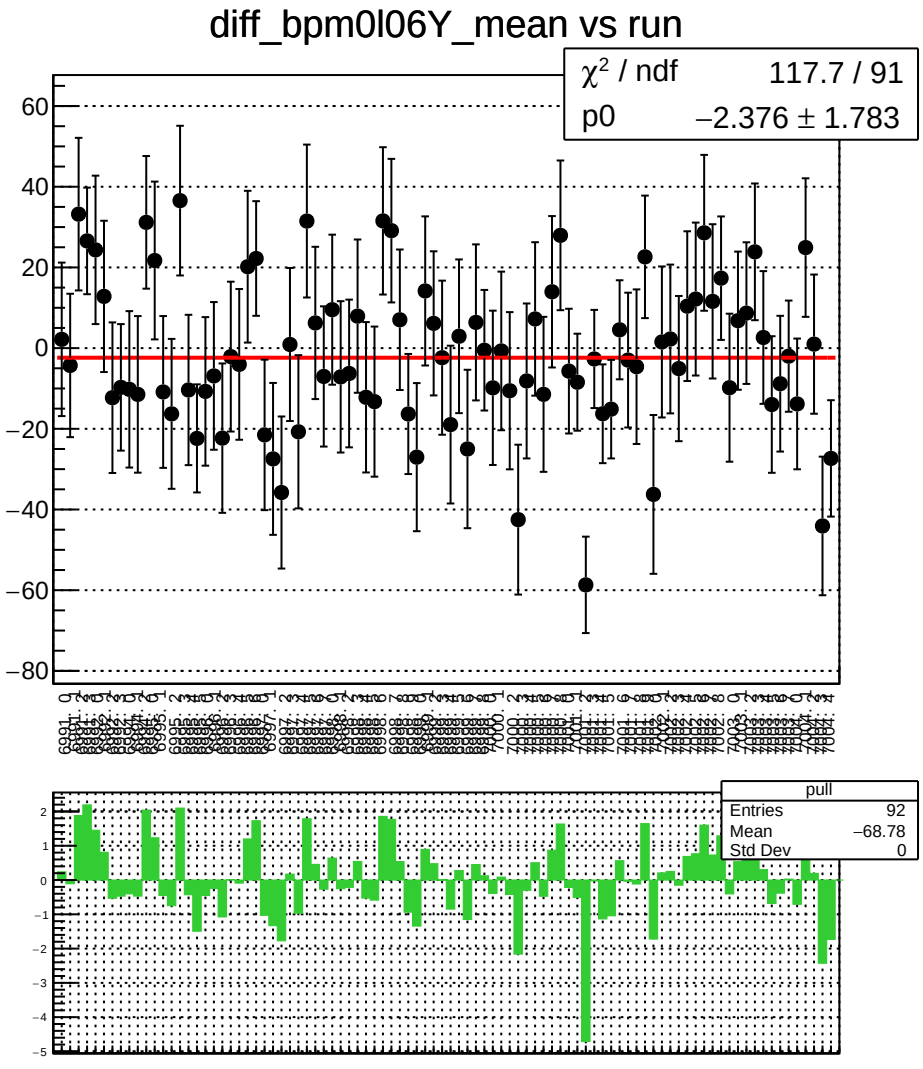

pull1D
Entries 92
Mean −0.004496
Std Dev 0.9456

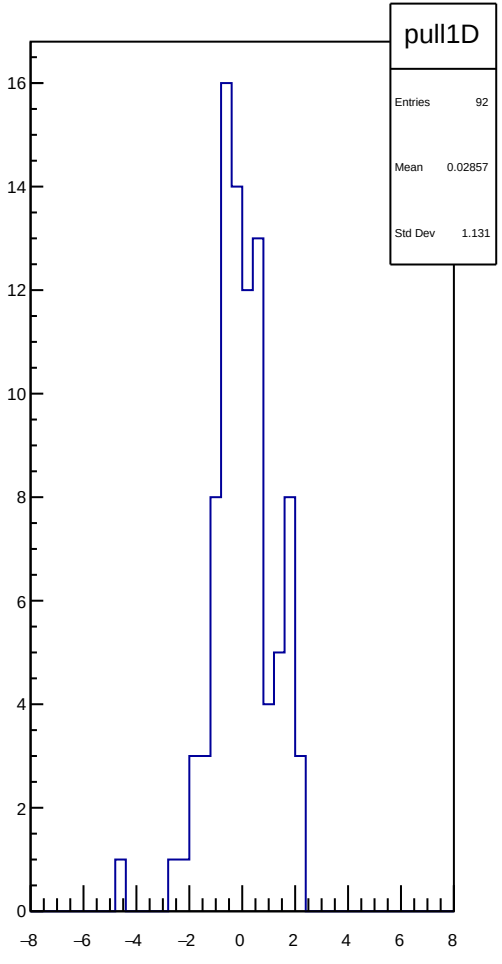

diff_bpm0l05Y_rms vs run
χ² / ndf 4718 / 91
p0 2121 ± 1.598
2400
2300
2200
2100
2000
1900
1800
1700

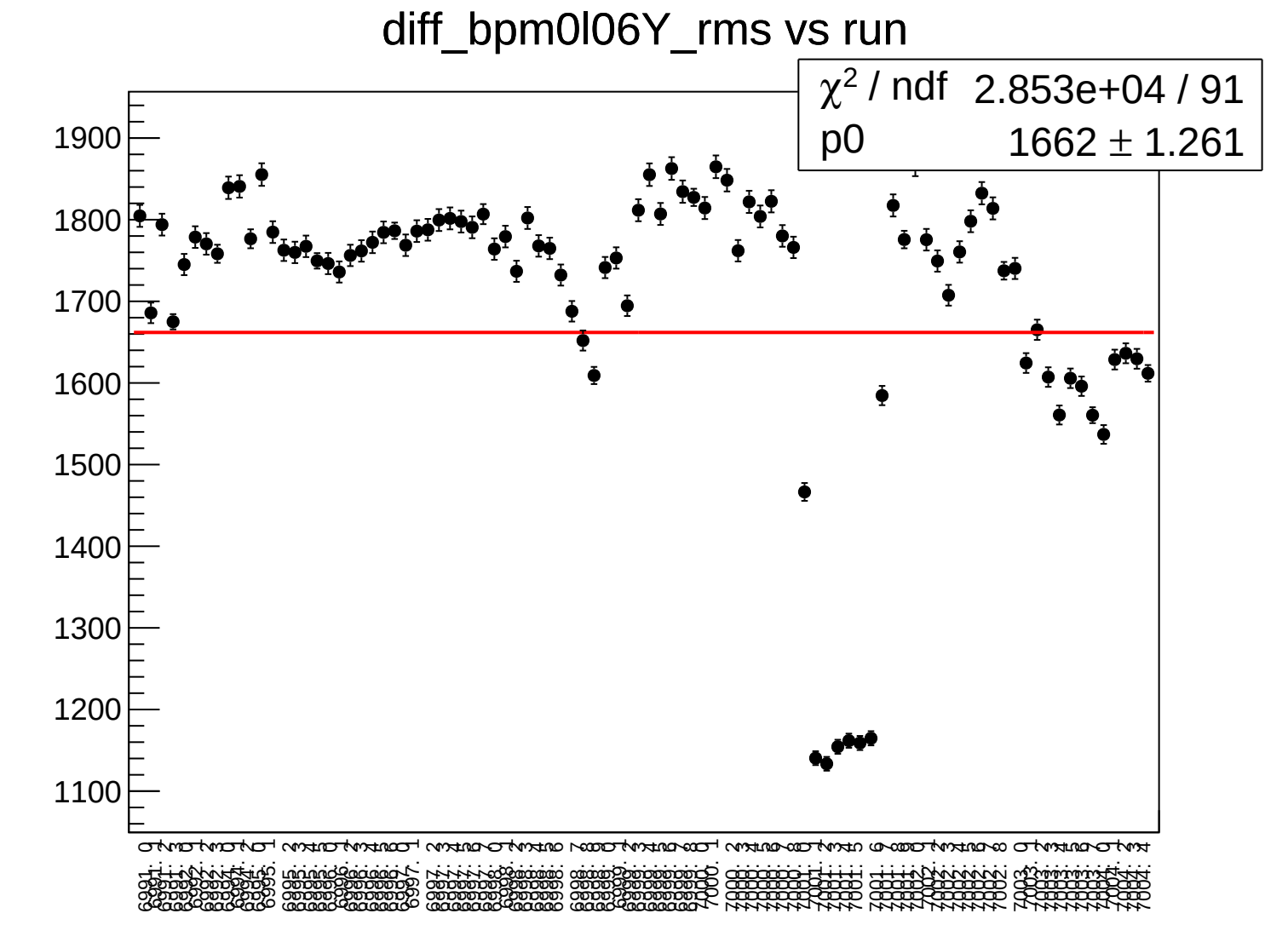

diff_bpm0l06X_mean vs run
χ^2 / ndf 86.74 / 91
p0 12.49 ± 6.529
pull
Entries 92
Mean 1044
Std Dev 0

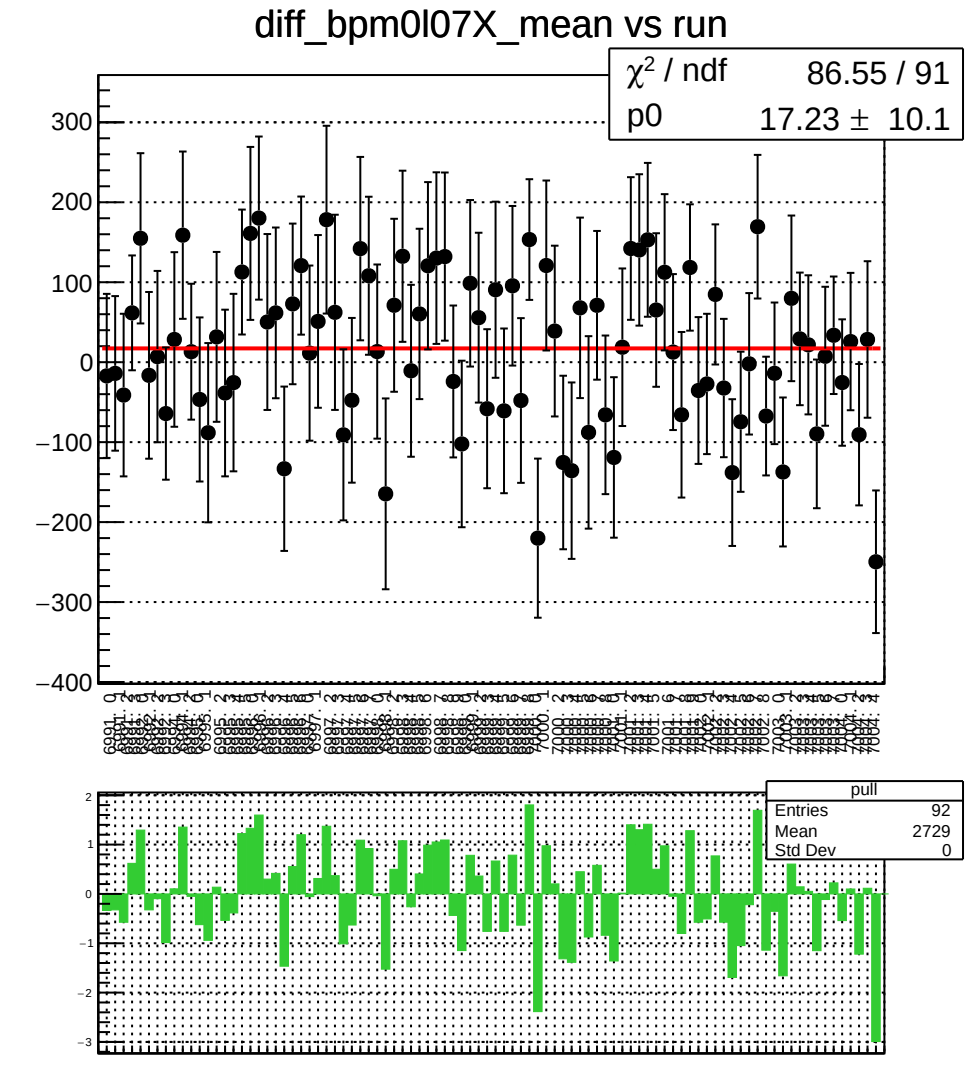

pull1D
Entries 92
Mean −0.004676
Std Dev 0.971

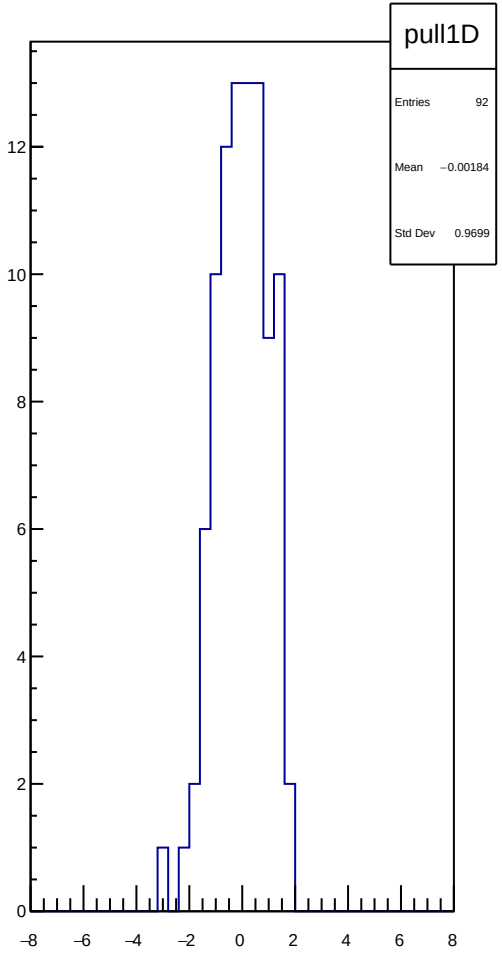

diff_bpm0l06X_rms vs run
χ² / ndf 1.449e+04 / 91
p0 6109 ± 4.617
7500
7000
6500
6000
5500
5000

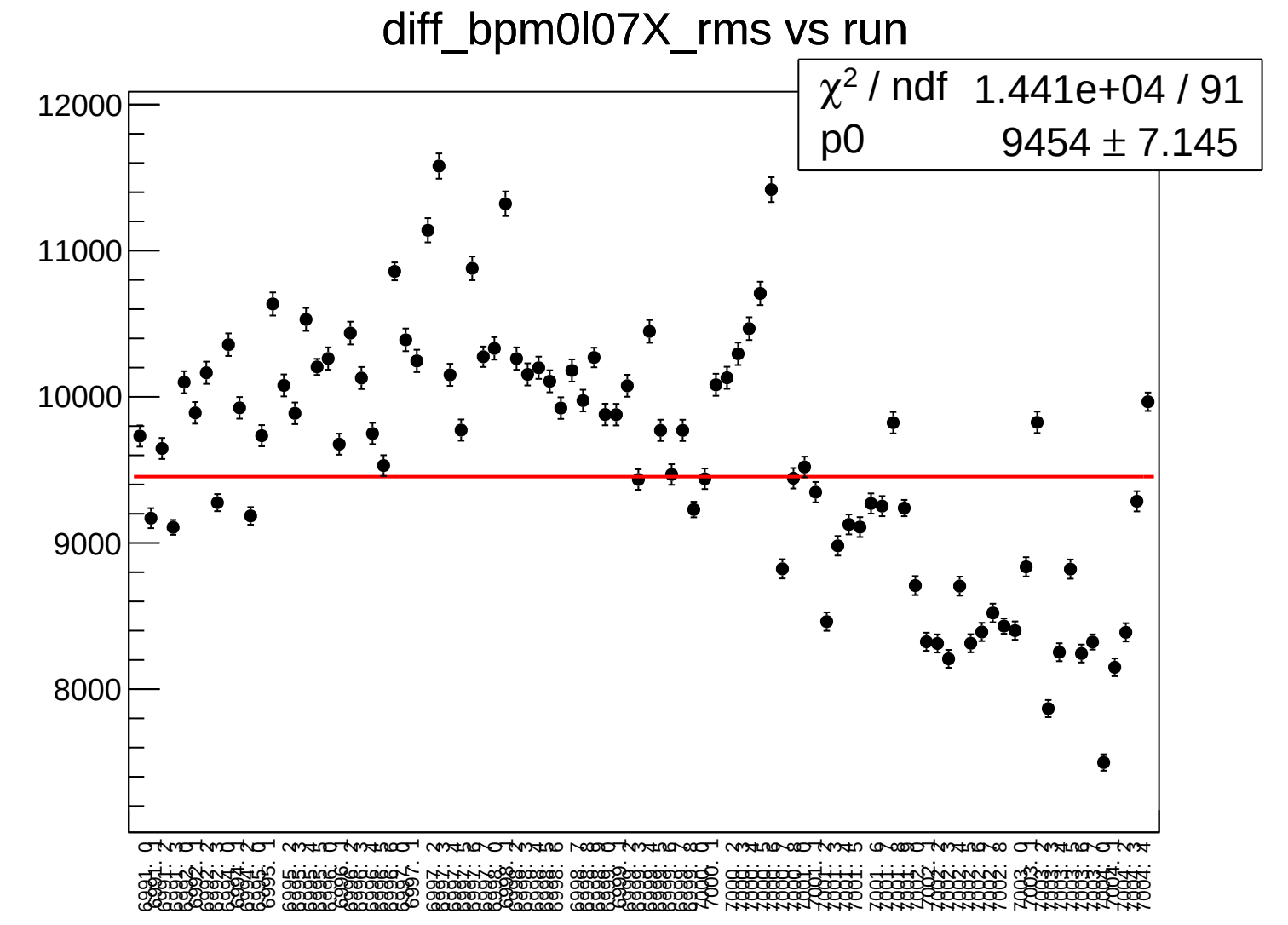

diff_bpm0l06Y_mean vs run
χ² / ndf 117.7 / 91
p0 −2.376 ± 1.783
pull
Entries 92
Mean −68.78
Std Dev 0

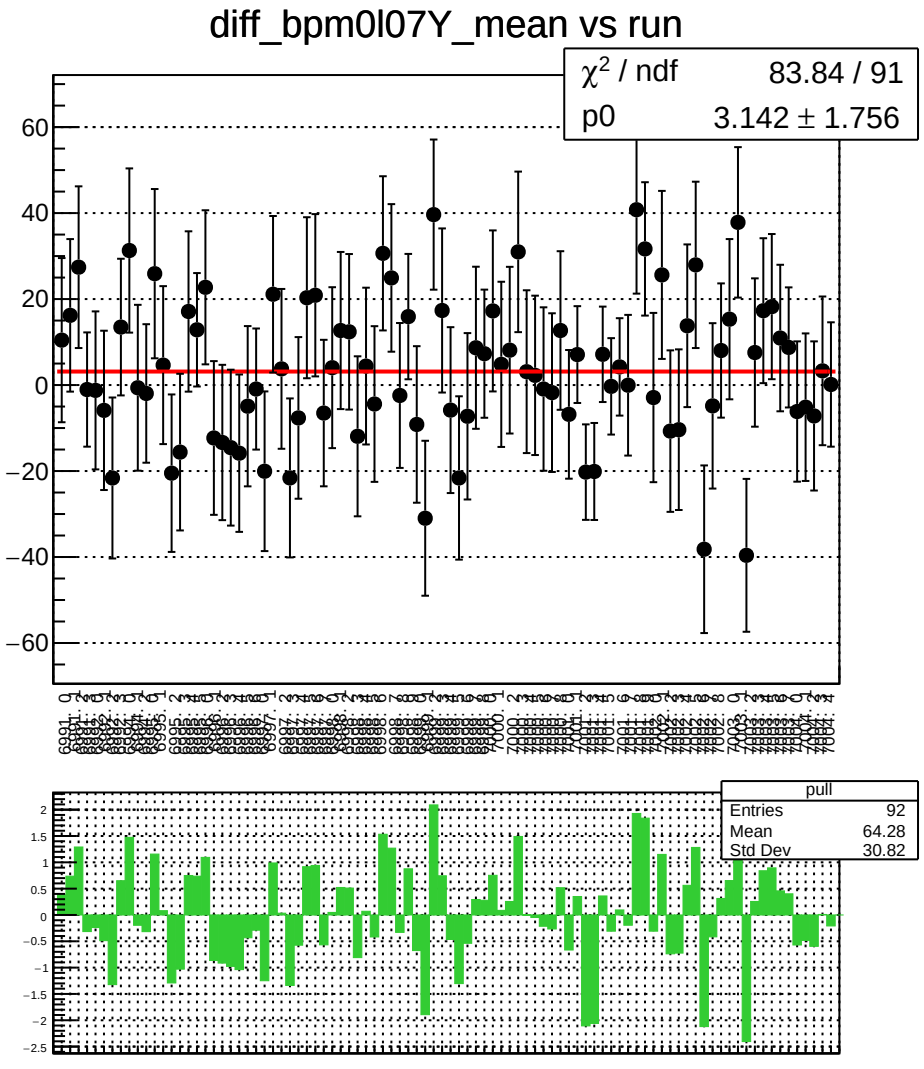

pull1D
Entries 92
Mean 0.02857
Std Dev 1.131

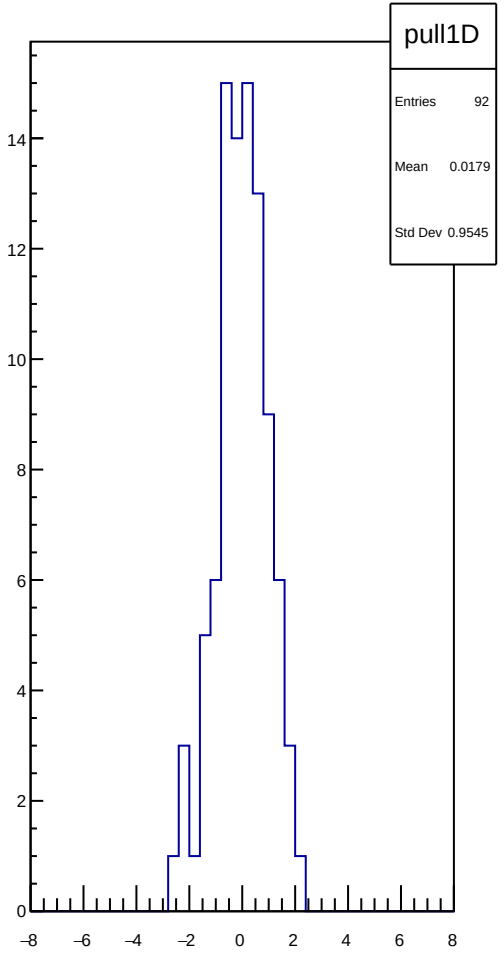

diff_bpm0l06Y_rms vs run
χ² / ndf 2.853e+04 / 91
p0 1662 ± 1.261
1900
1800
1700
1600
1500
1400
1300
1200
1100

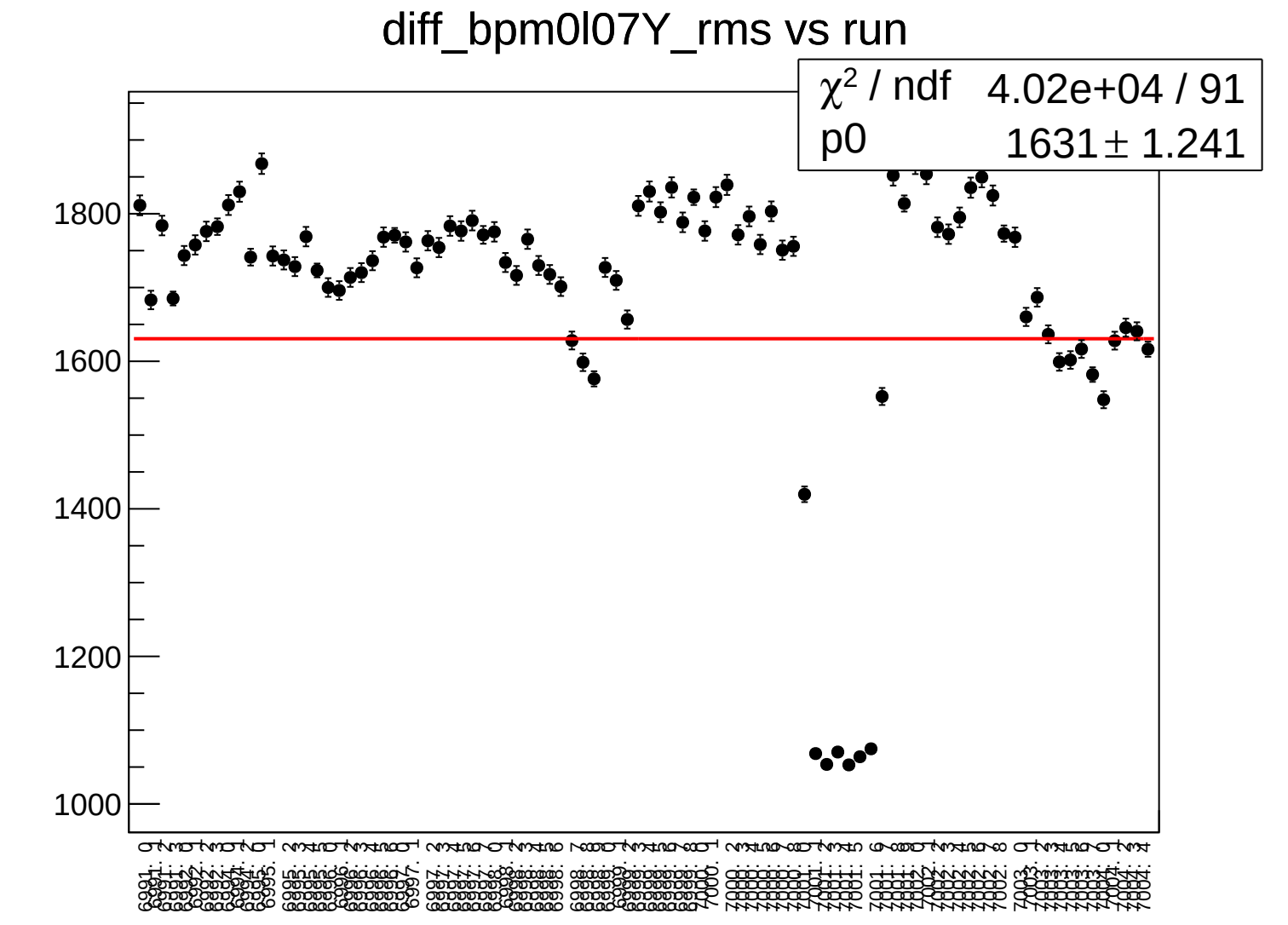

diff_bpm0l07X_mean vs run
χ² / ndf 86.55 / 91
p0 17.23 ± 10.1
pull
Entries 92
Mean 2729
Std Dev 0

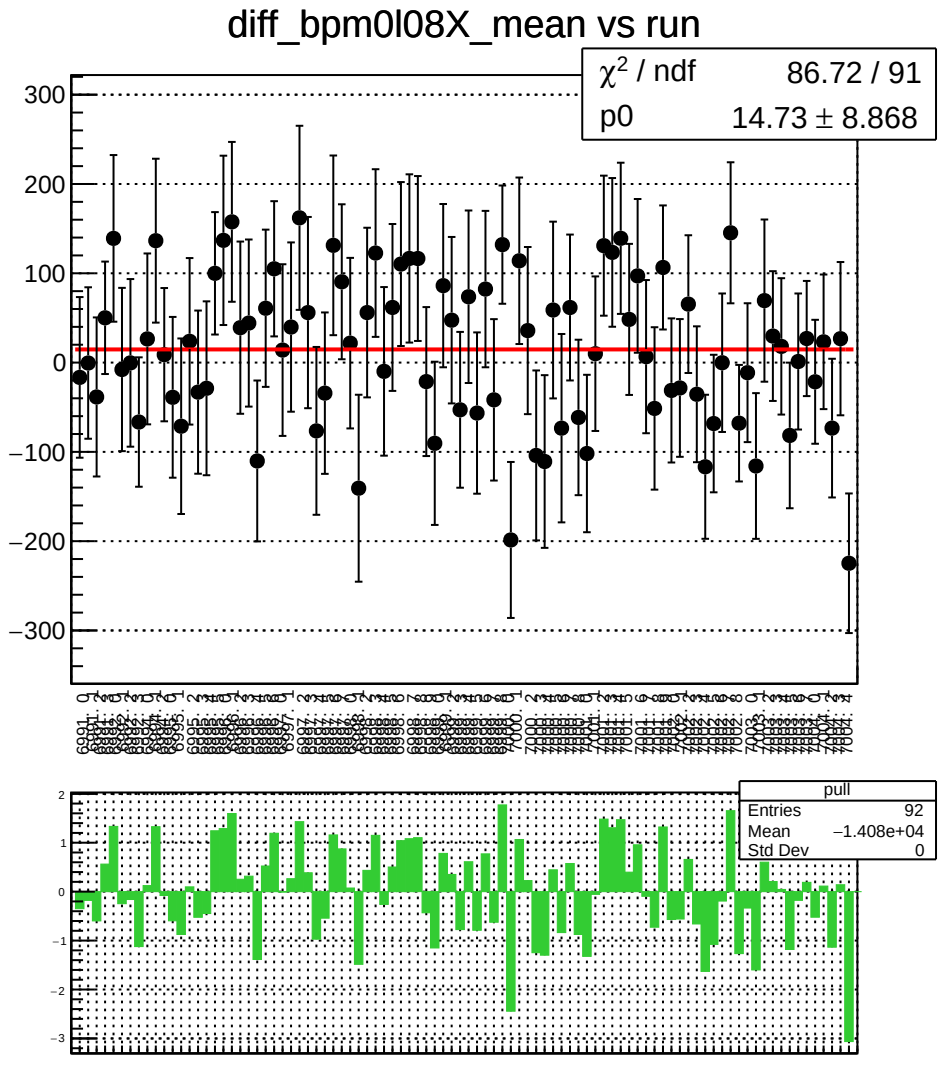

pull1D
Entries 92
Mean −0.00184
Std Dev 0.9699

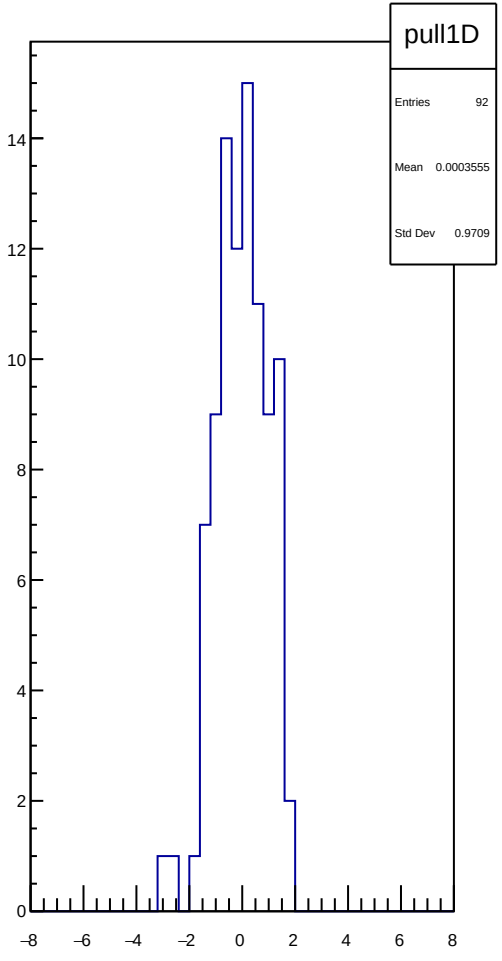

diff_bpm0l07X_rms vs run
χ² / ndf 1.441e+04 / 91
p0 9454 ± 7.145
12000
11000
10000
9000
8000

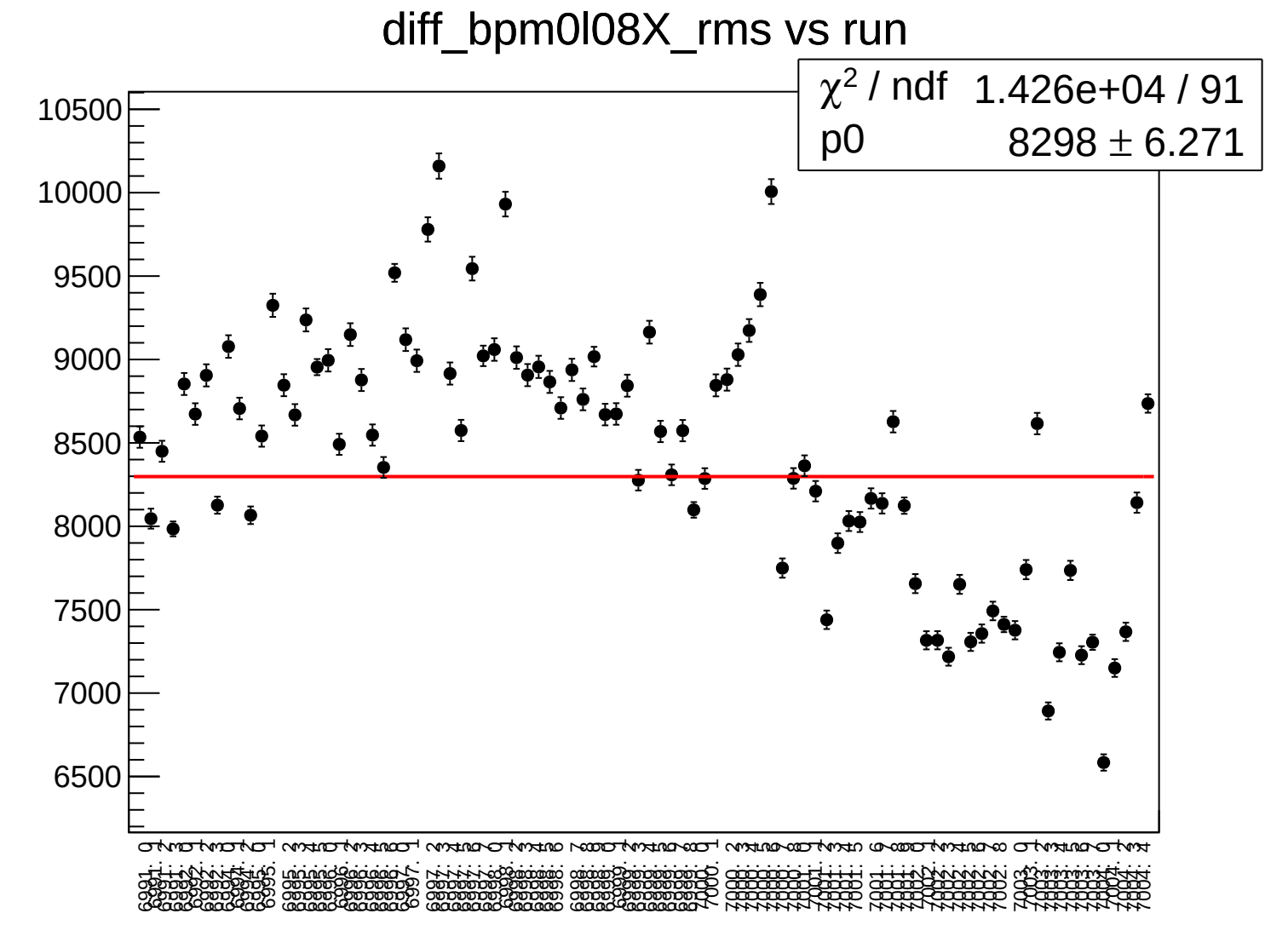

diff_bpm0l07Y_mean vs run
χ² / ndf 83.84 / 91
p0 3.142 ± 1.756
pull
Entries 92
Mean 64.28
Std Dev 30.82

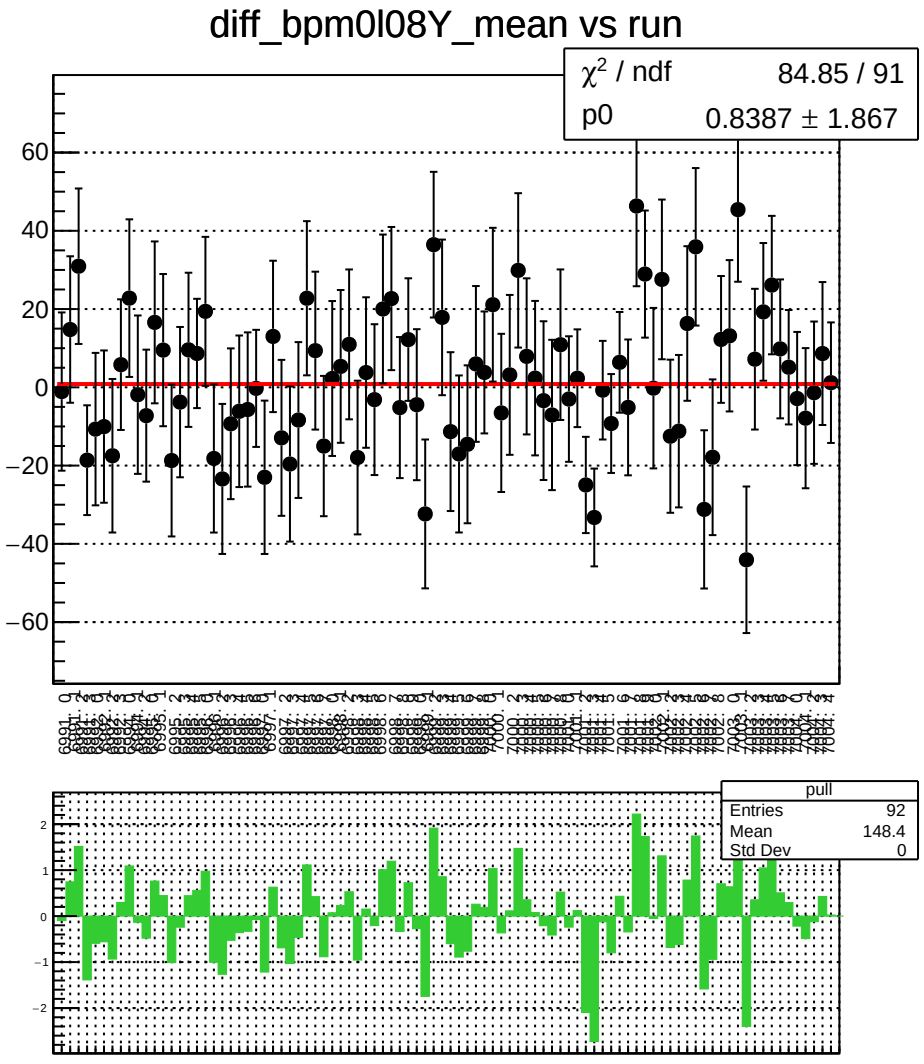

pull1D
Entries 92
Mean 0.0179
Std Dev 0.9545

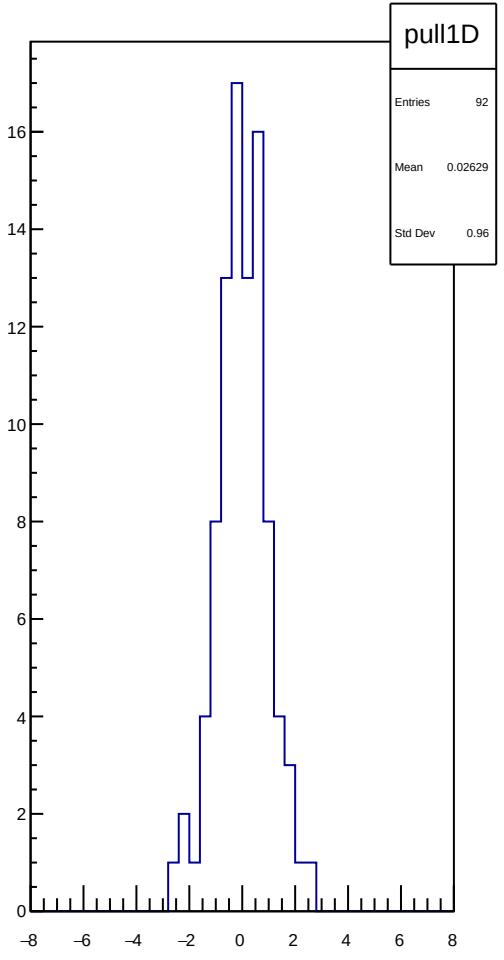

diff_bpm0l07Y_rms vs run
χ² / ndf 4.02e+04 / 91
p0 1631 ± 1.241
1800
1600
1400
1200
1000

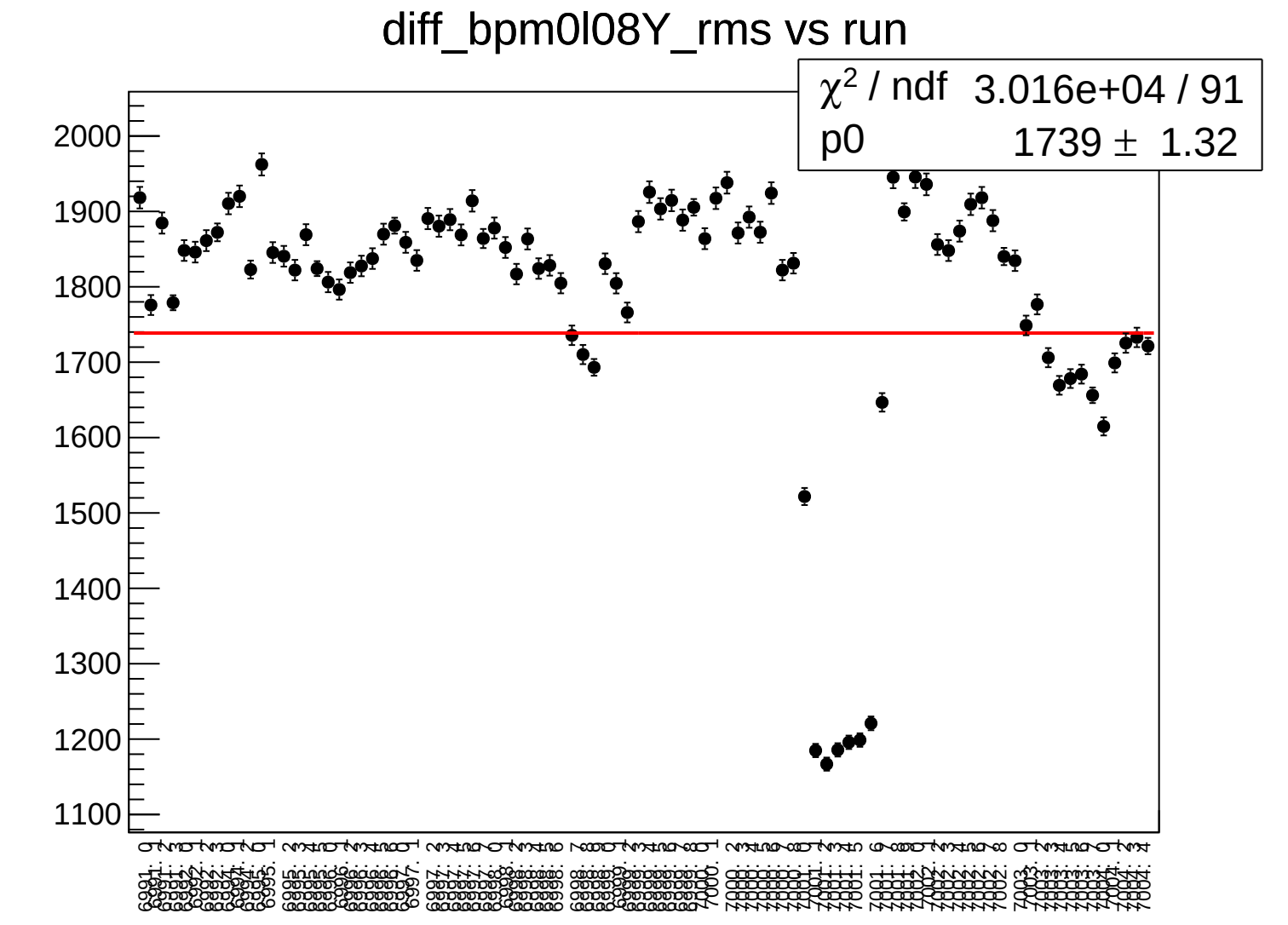

diff_bpm0l08X_mean vs run
χ² / ndf 86.72 / 91
p0 14.73 ± 8.868
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −1.408e+04
Std Dev 0
2
1
0
−1
−2
−3

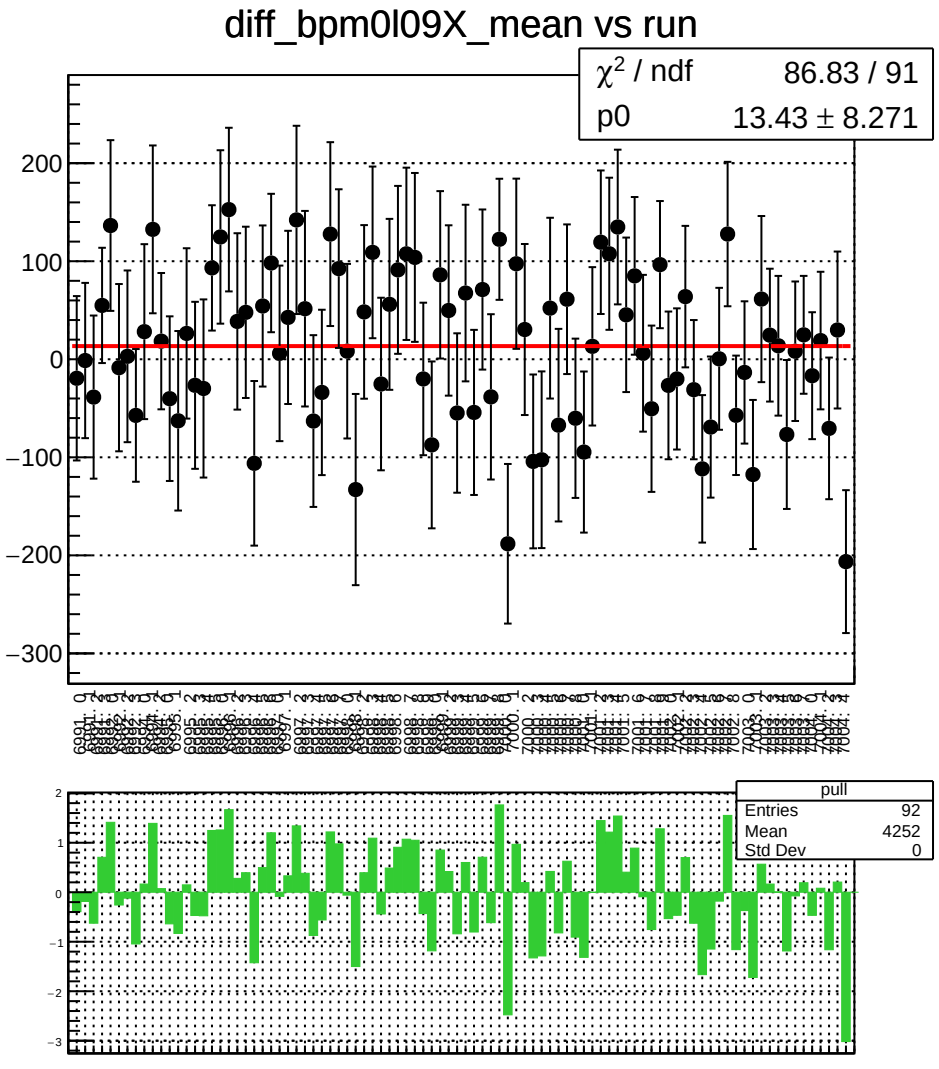

pull1D
Entries 92
Mean 0.0003555
Std Dev 0.9709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

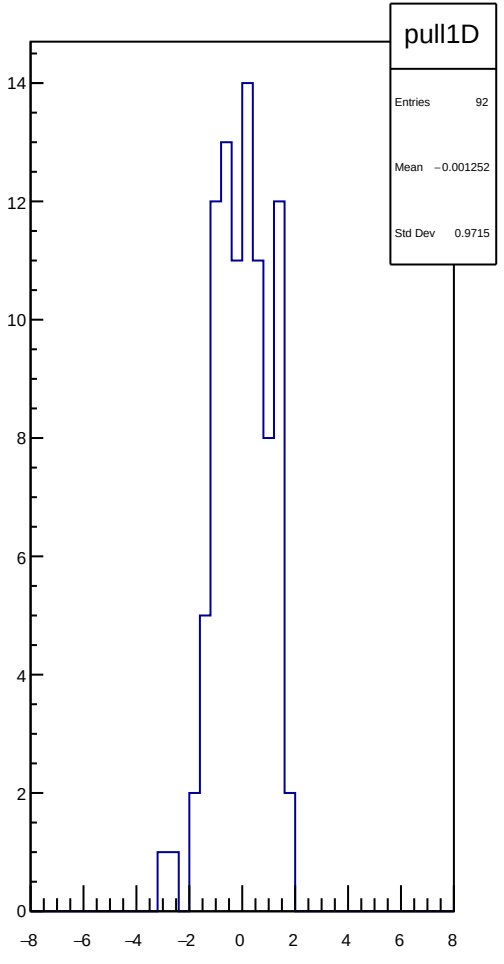

diff_bpm0l08X_rms vs run
χ² / ndf 1.426e+04 / 91
p0 8298 ± 6.271
10500
10000
9500
9000
8500
8000
7500
7000
6500

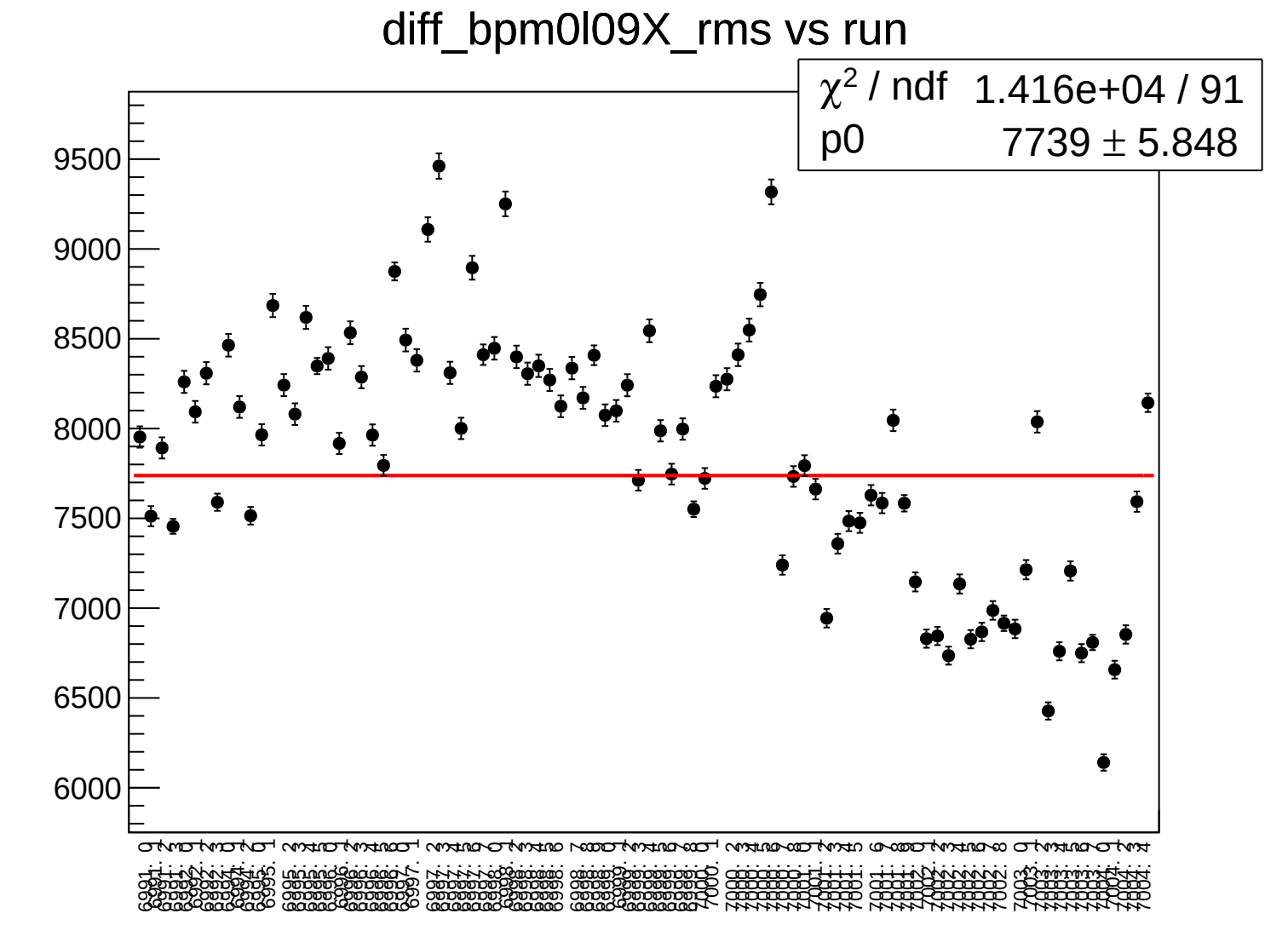

diff_bpm0l08Y_mean vs run
χ² / ndf 84.85 / 91
p0 0.8387 ± 1.867
pull
Entries 92
Mean 148.4
Std Dev 0

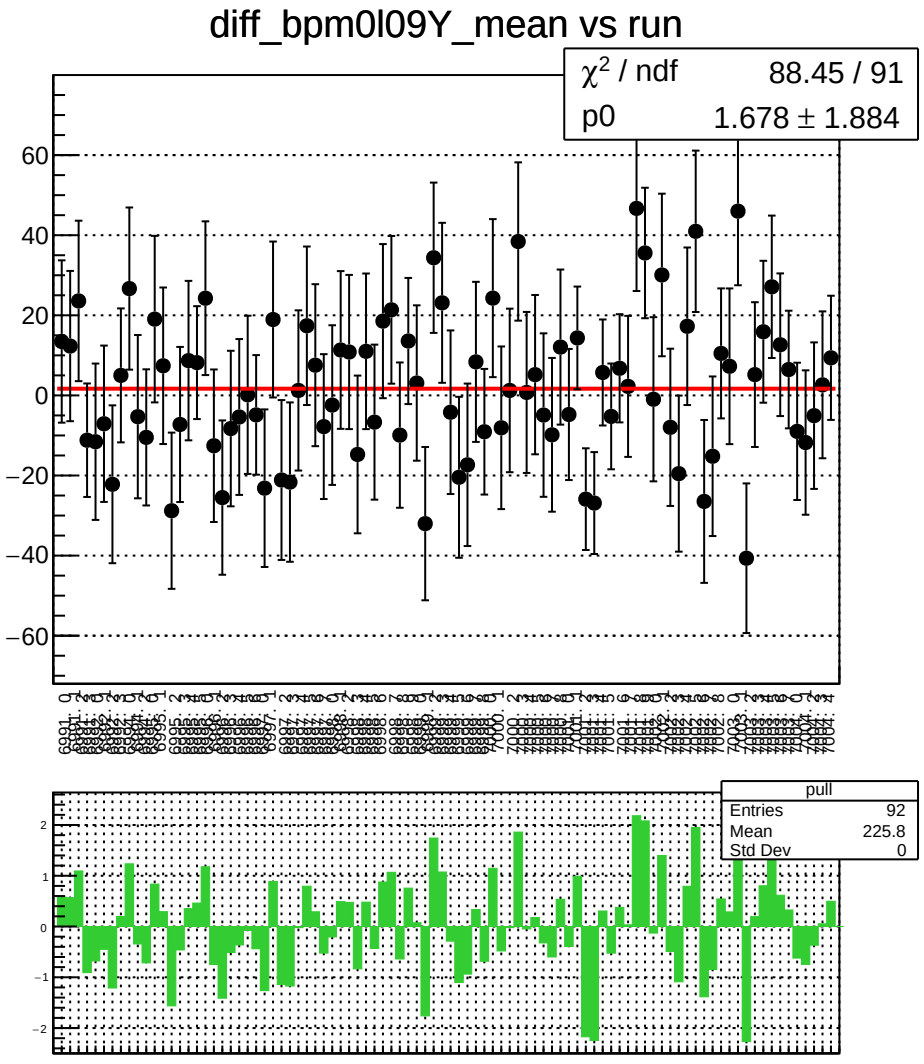

pull1D
Entries 92
Mean 0.02629
Std Dev 0.96

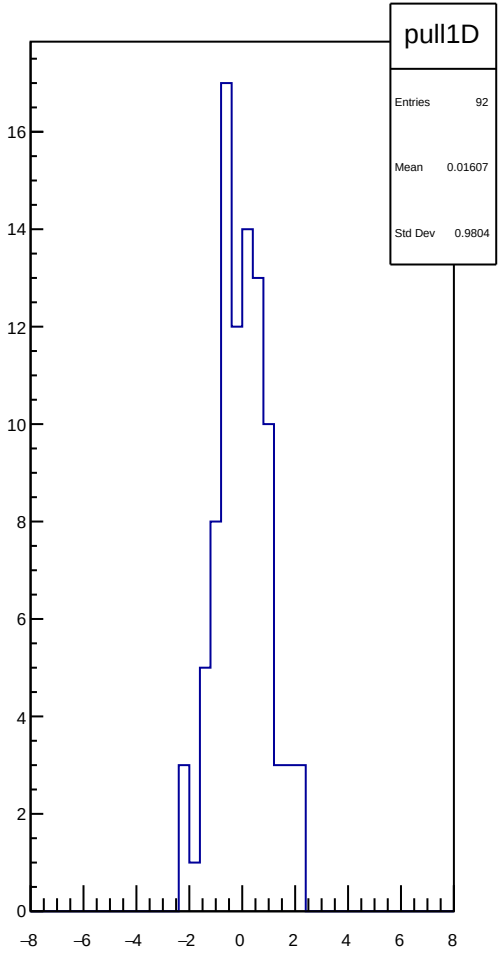

diff_bpm0l08Y_rms vs run
χ² / ndf 3.016e+04 / 91
p0 1739 ± 1.32
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

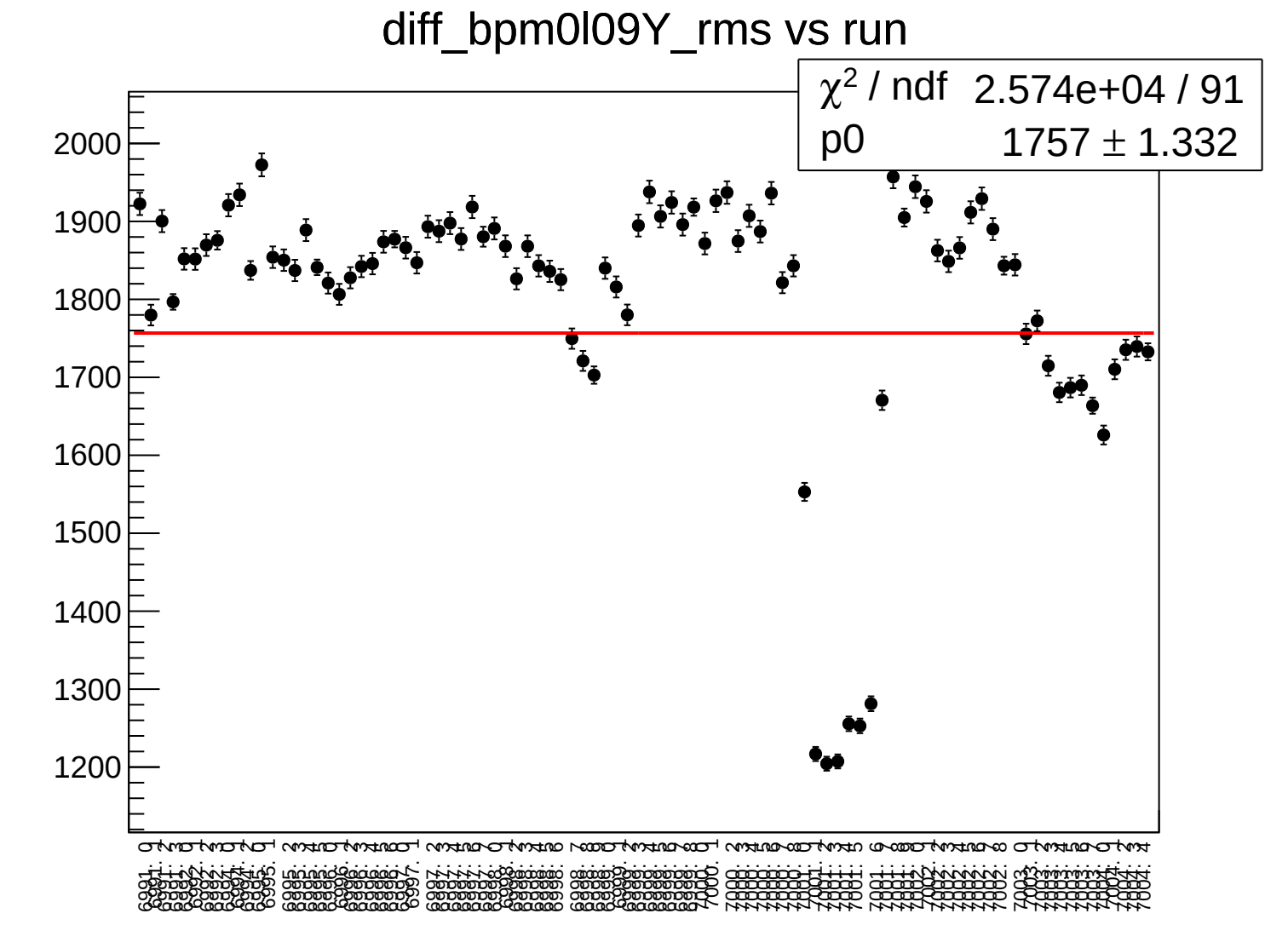

diff_bpm0l09X_mean vs run
χ^2 / ndf 86.83 / 91
p0 13.43 ± 8.271
200
100
0
−100
−200
−300
pull
Entries 92
Mean 4252
Std Dev 0
2
1
0
−1
−2
−3

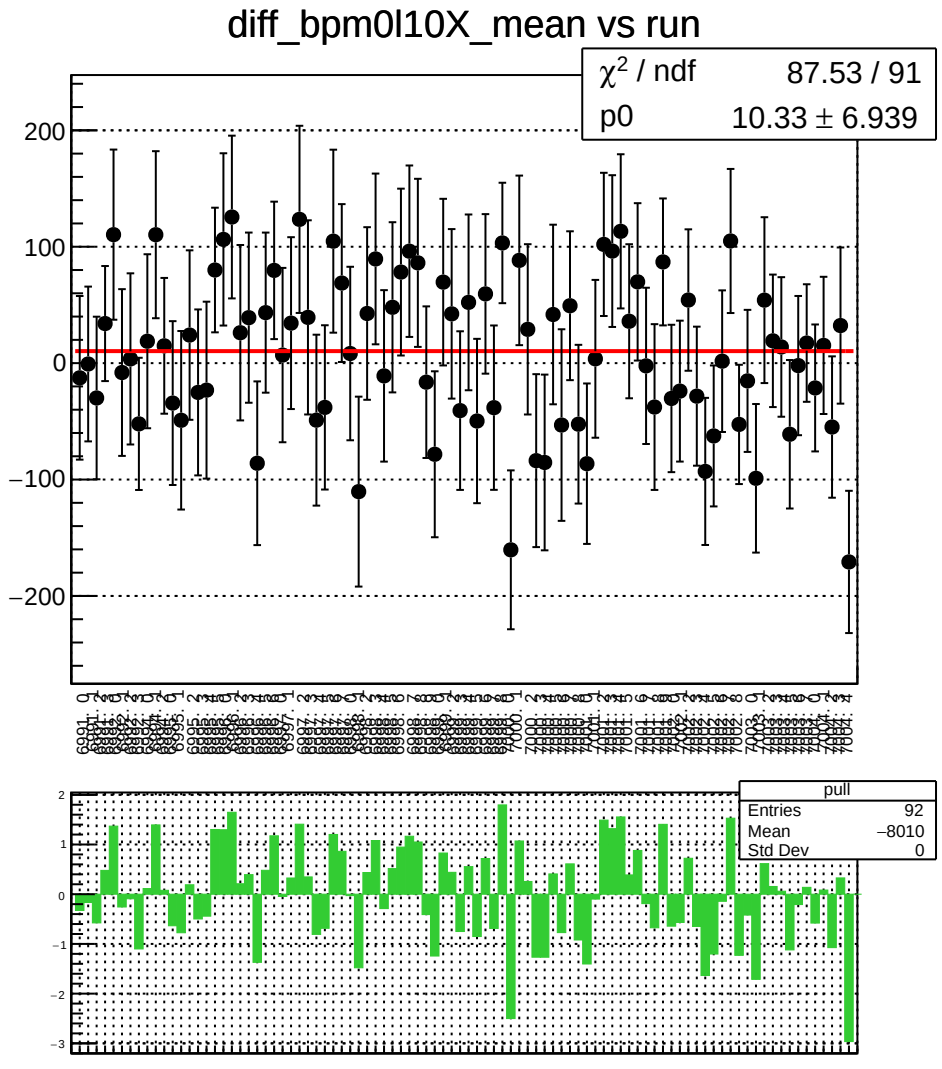

pull1D
Entries 92
Mean −0.001252
Std Dev 0.9715
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

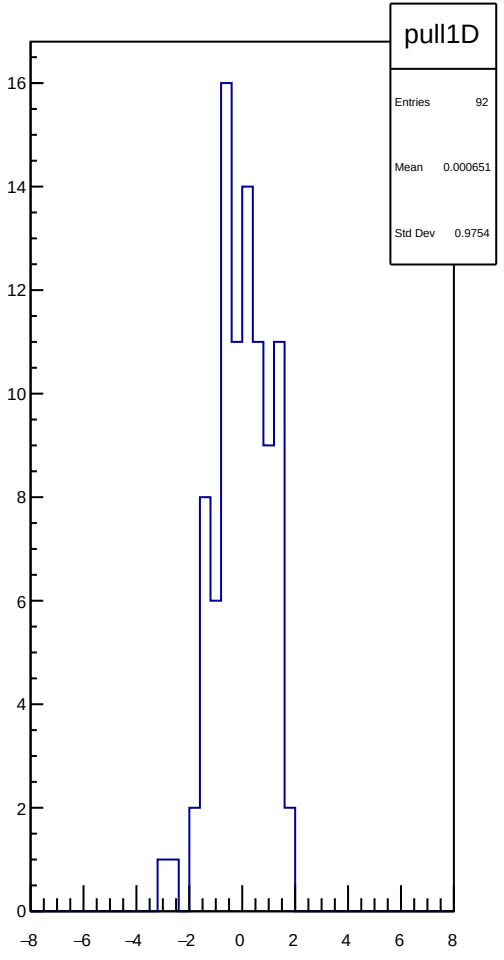

diff_bpm0l09X_rms vs run
χ² / ndf 1.416e+04 / 91
p0 7739 ± 5.848
9500
9000
8500
8000
7500
7000
6500
6000

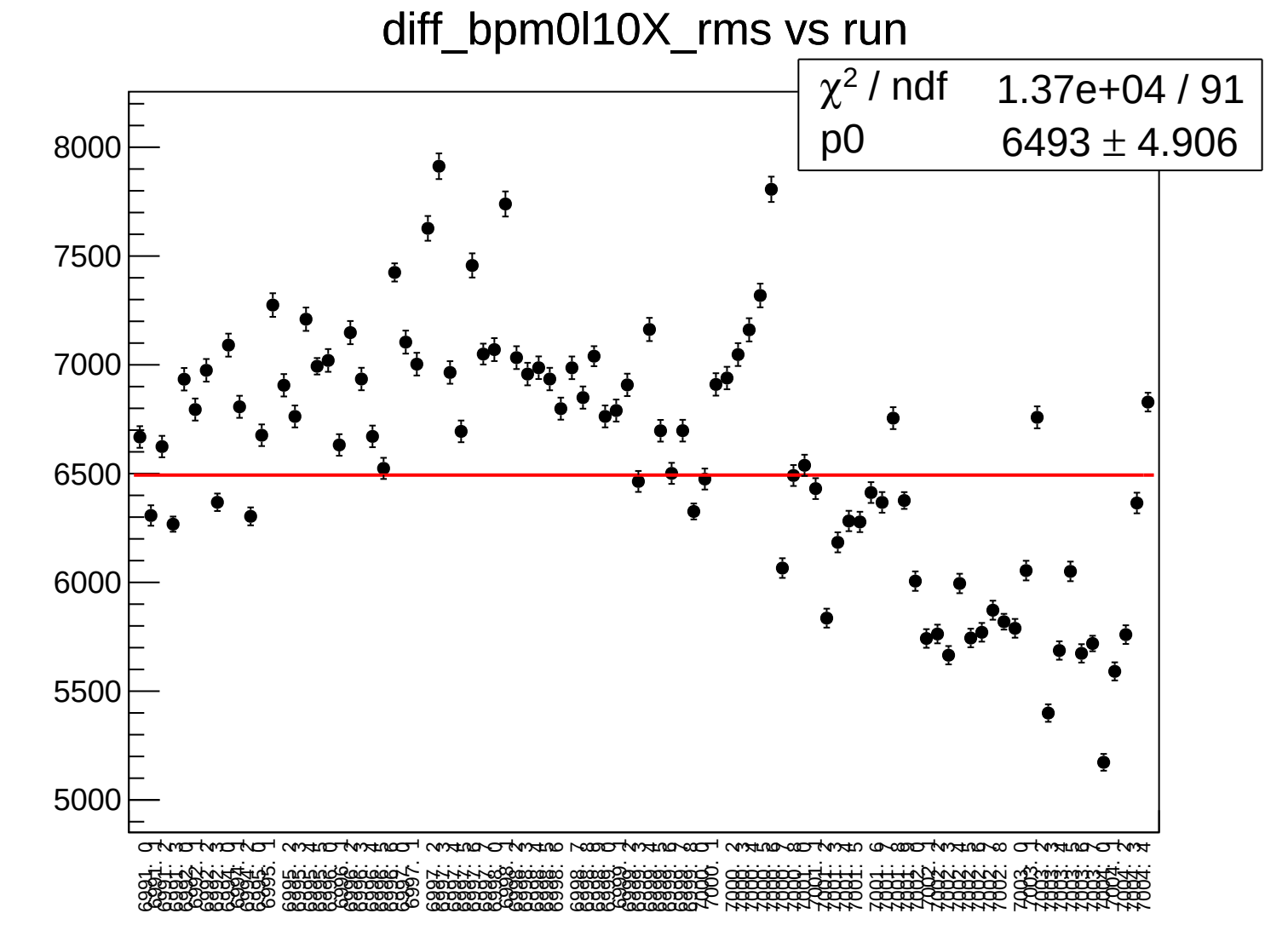

diff_bpm0l09Y_mean vs run
χ² / ndf 88.45 / 91
p0 1.678 ± 1.884
pull
Entries 92
Mean 225.8
Std Dev 0

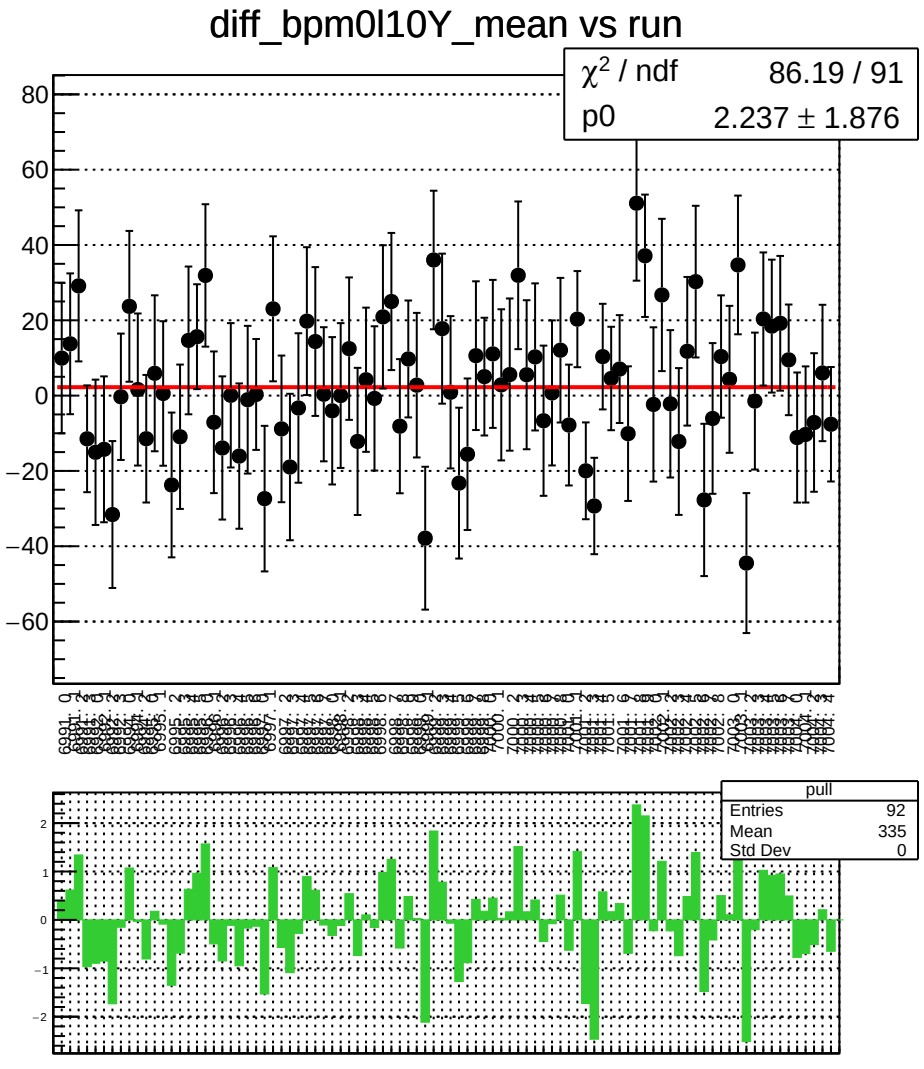

pull1D
Entries 92
Mean 0.01607
Std Dev 0.9804

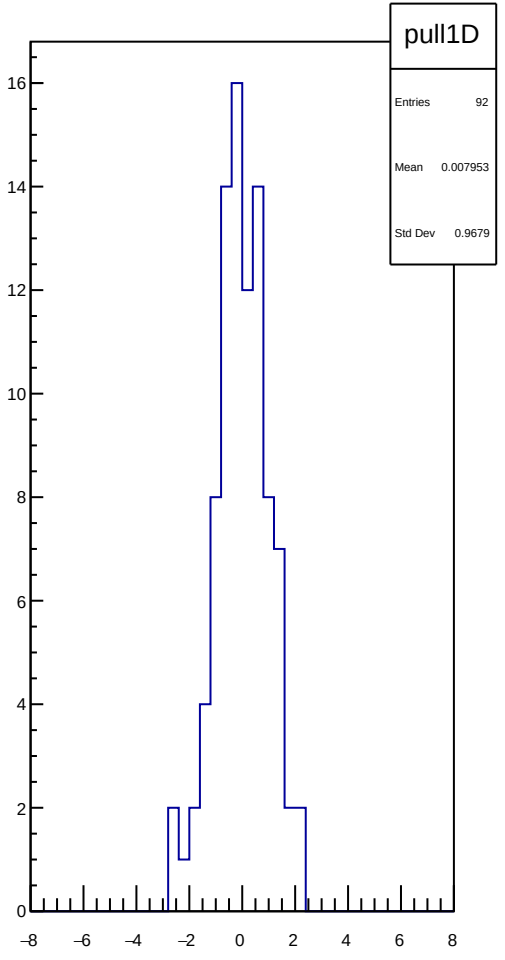

diff_bpm0l09Y_rms vs run
χ² / ndf 2.574e+04 / 91
p0 1757 ± 1.332
2000
1900
1800
1700
1600
1500
1400
1300
1200

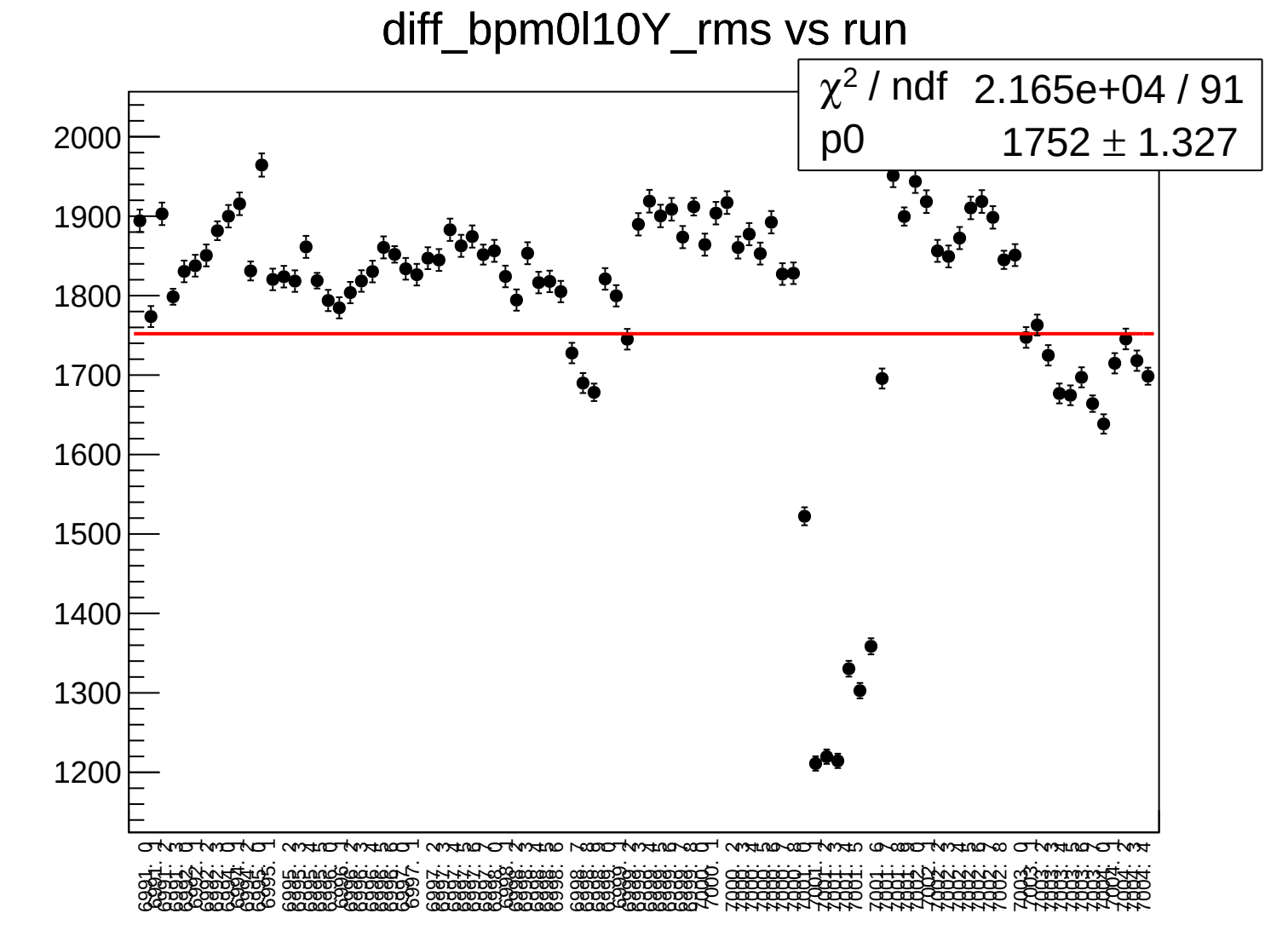

diff_bpm0l10X_mean vs run
χ^2 / ndf 87.53 / 91
p0 10.33 ± 6.939
200
100
0
−100
−200
pull
Entries 92
Mean −8010
Std Dev 0
2
1
0
−1
−2
−3

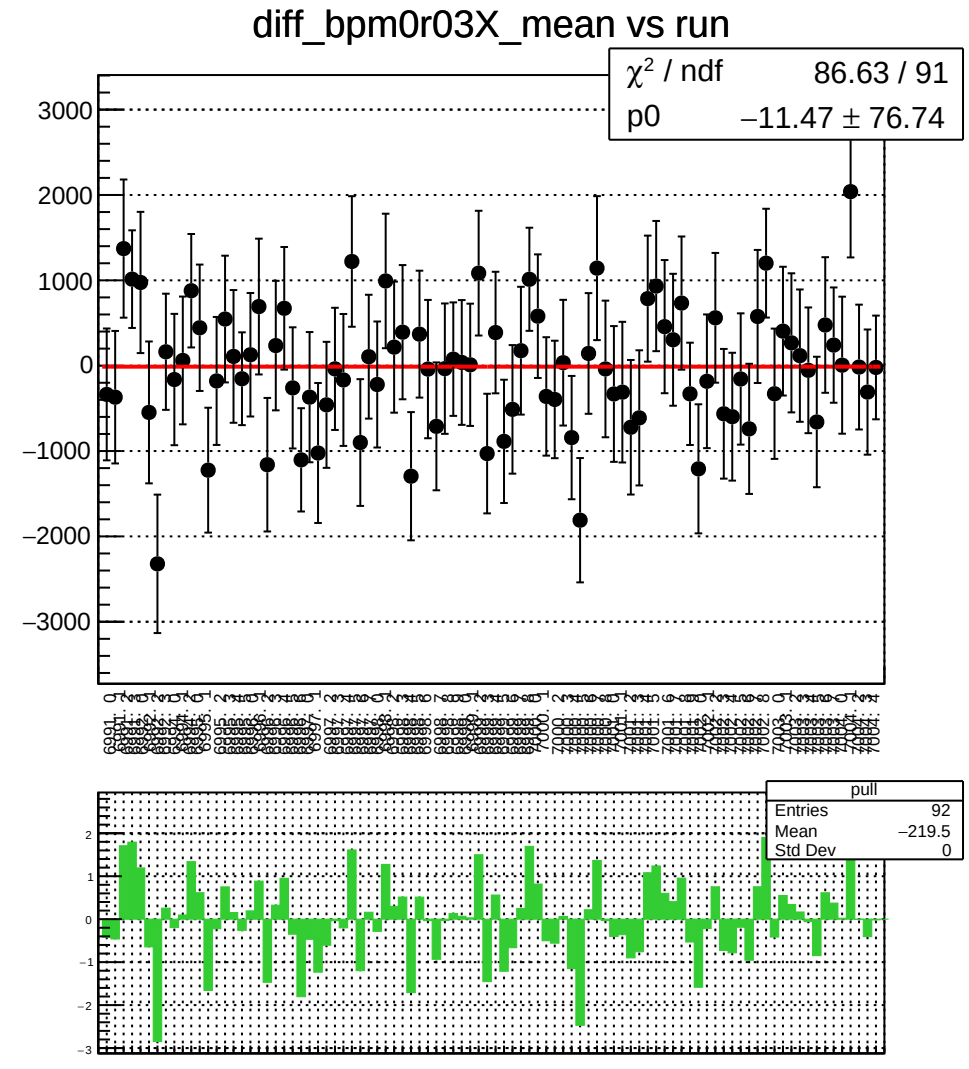

pull1D
Entries 92
Mean 0.000651
Std Dev 0.9754
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

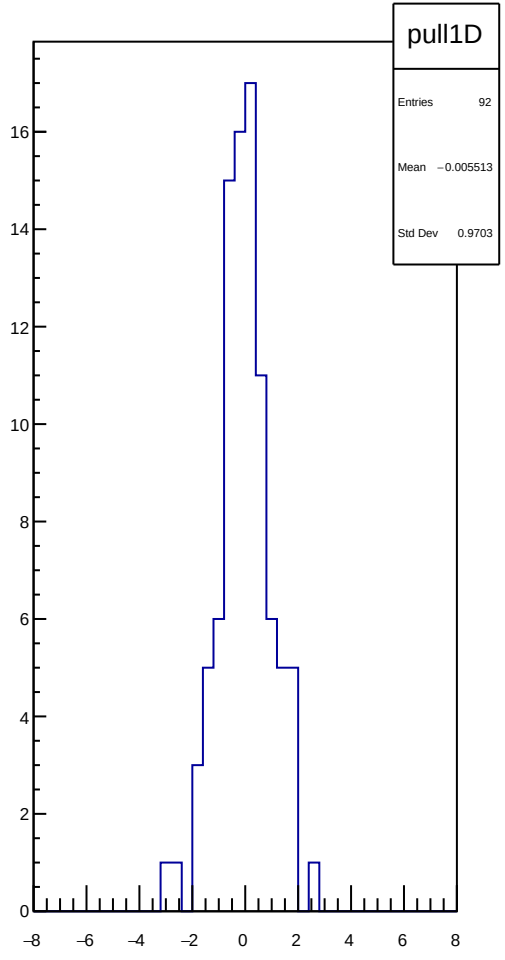

diff_bpm0l10X_rms vs run
χ² / ndf 1.37e+04 / 91
p0 6493 ± 4.906
8000
7500
7000
6500
6000
5500
5000

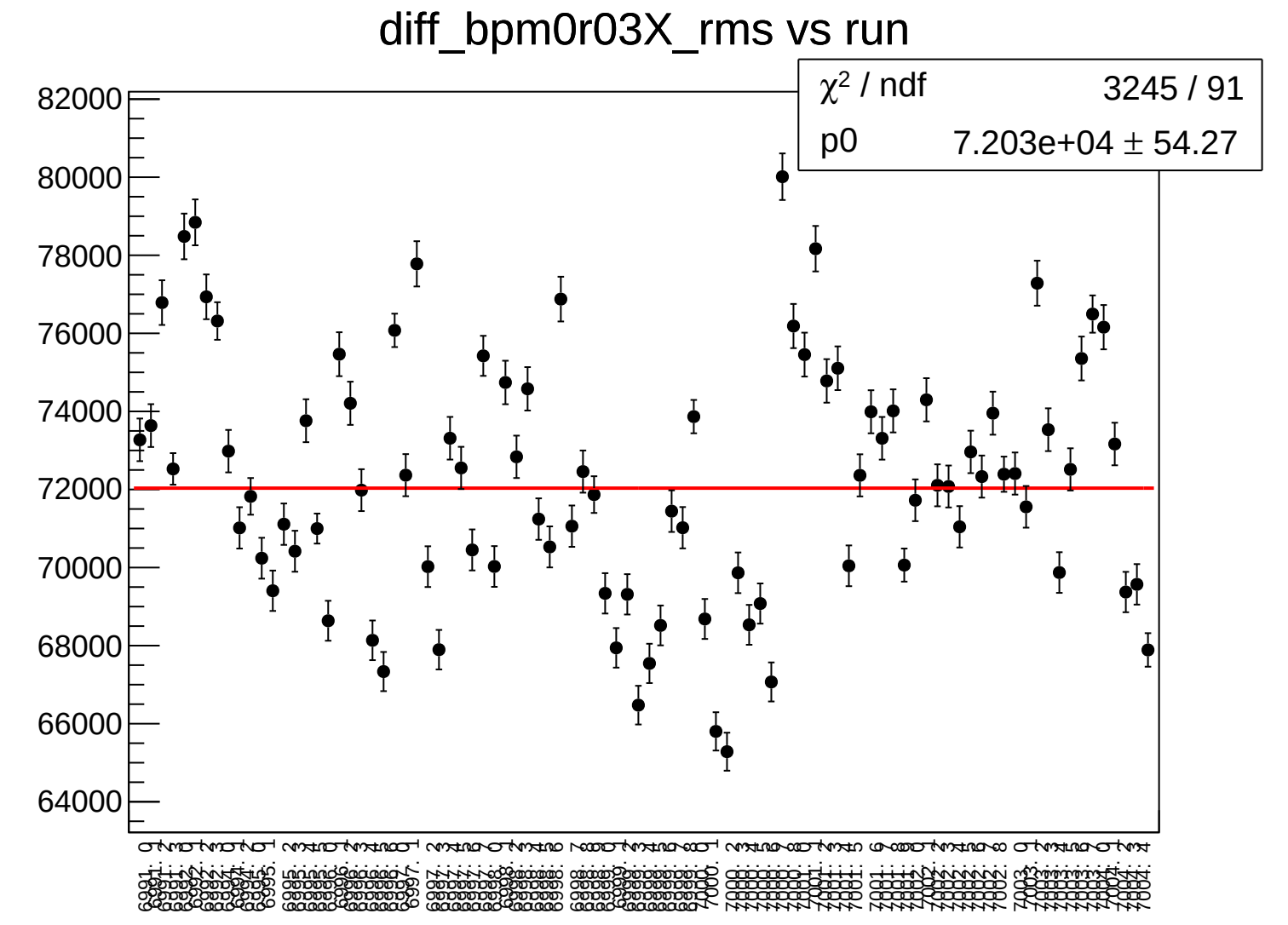

diff_bpm0l10Y_mean vs run
χ² / ndf 86.19 / 91
p0 2.237 ± 1.876
pull
Entries 92
Mean 335
Std Dev 0

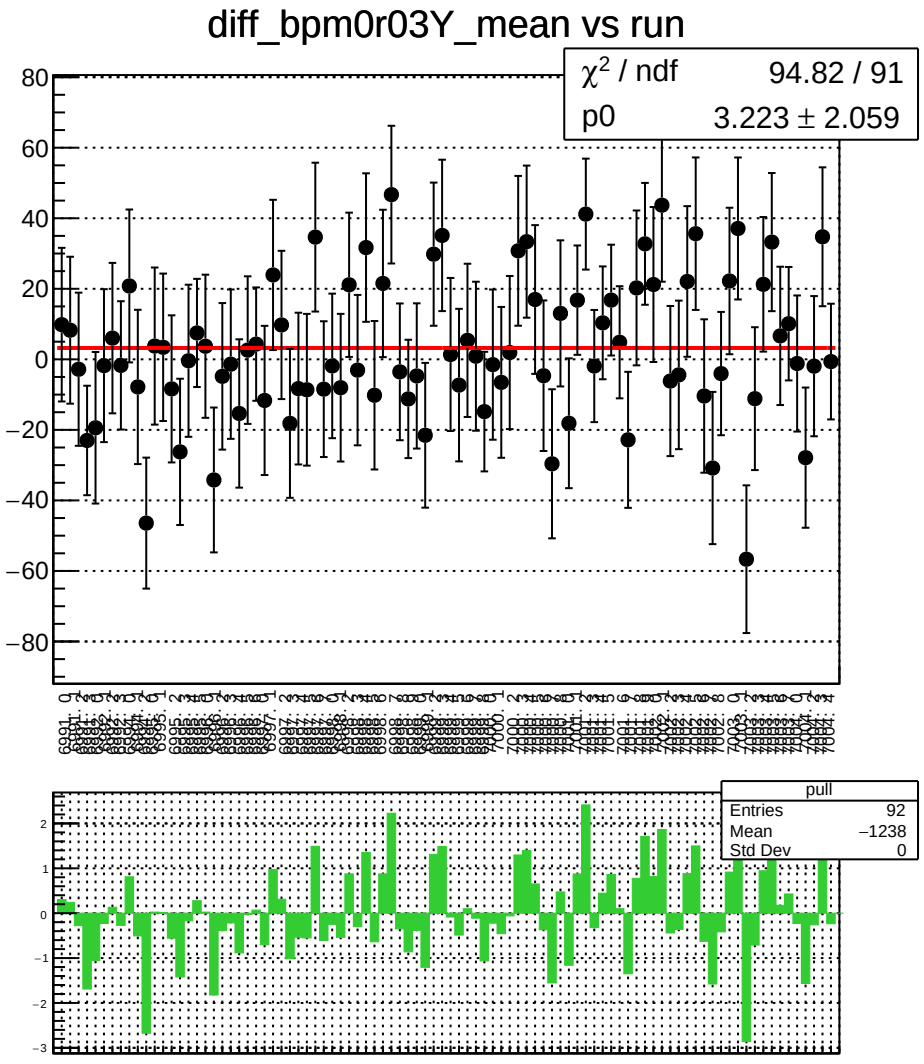

pull1D
Entries 92
Mean 0.007953
Std Dev 0.9679

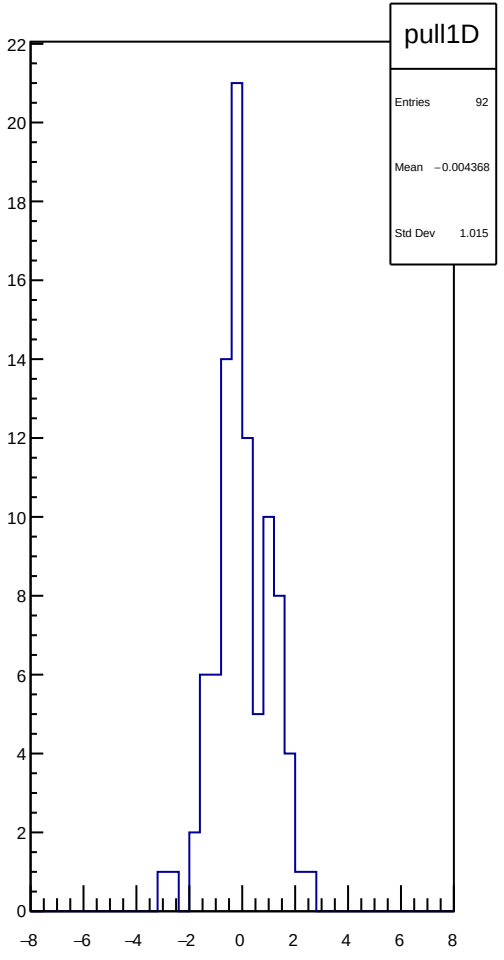

diff_bpm0l10Y_rms vs run
χ² / ndf 2.165e+04 / 91
p0 1752 ± 1.327
2000
1900
1800
1700
1600
1500
1400
1300
1200

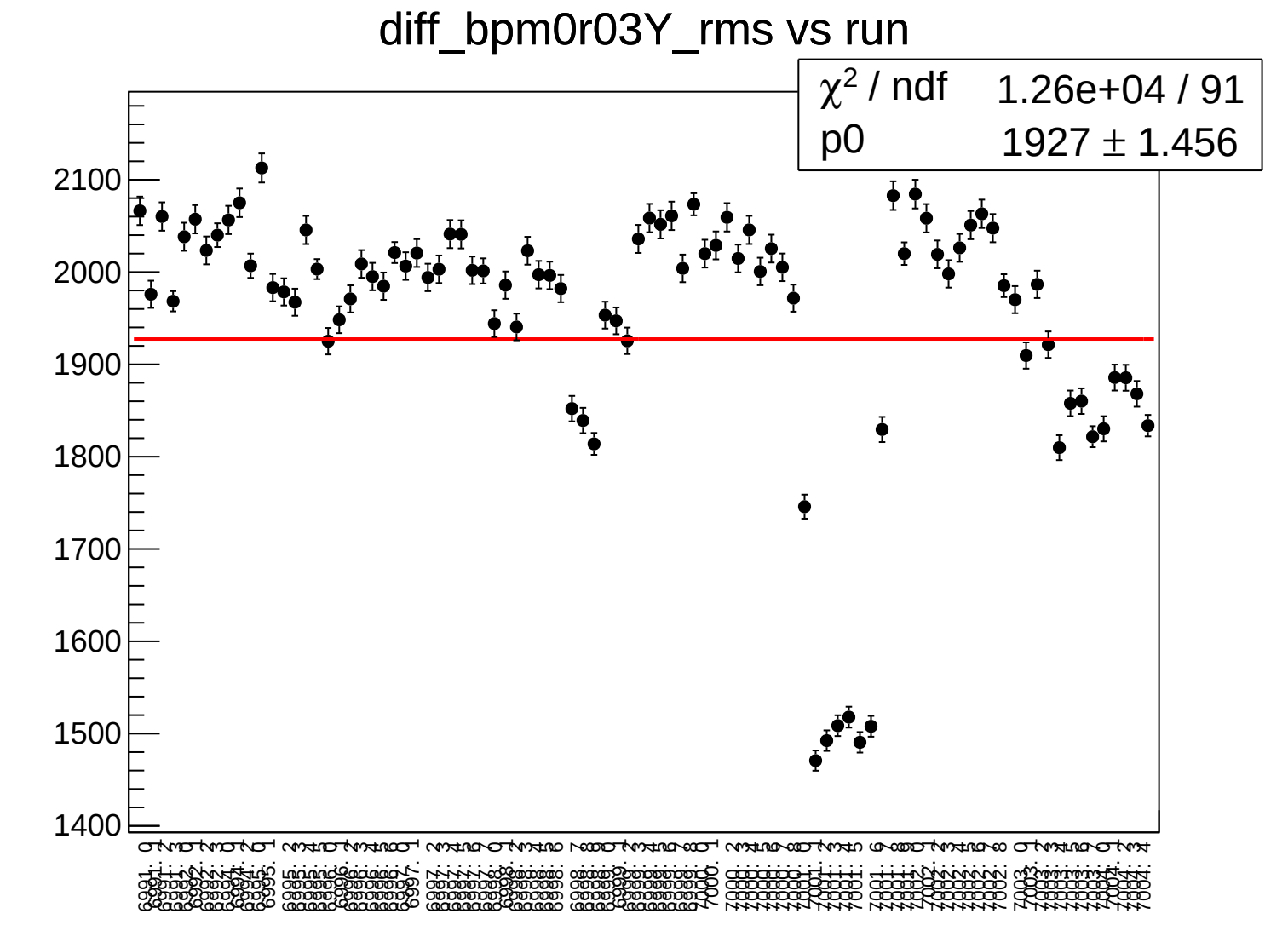

diff_bpm0r03X_mean vs run
χ² / ndf 86.63 / 91
p0 −11.47 ± 76.74
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −219.5
Std Dev 0
2
1
0
−1
−2
−3

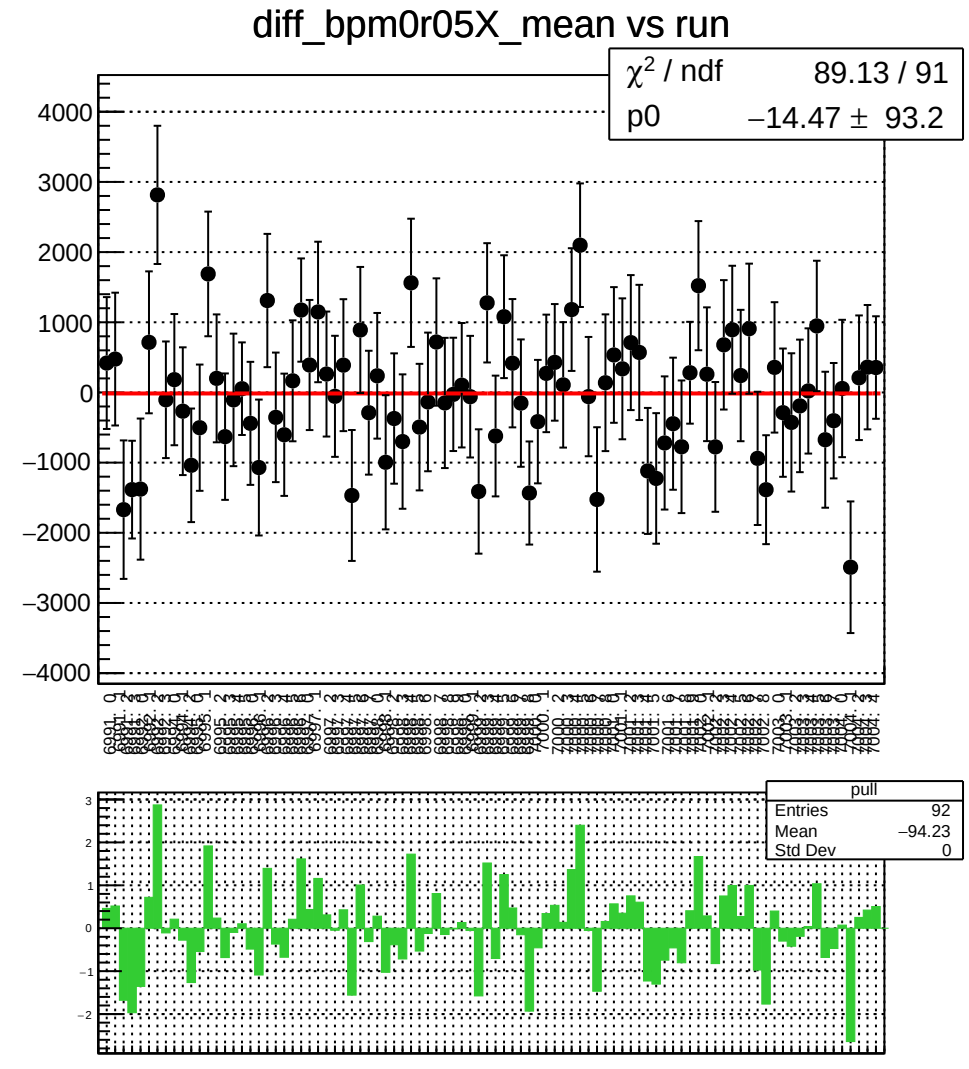

pull1D
Entries 92
Mean −0.005513
Std Dev 0.9703
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

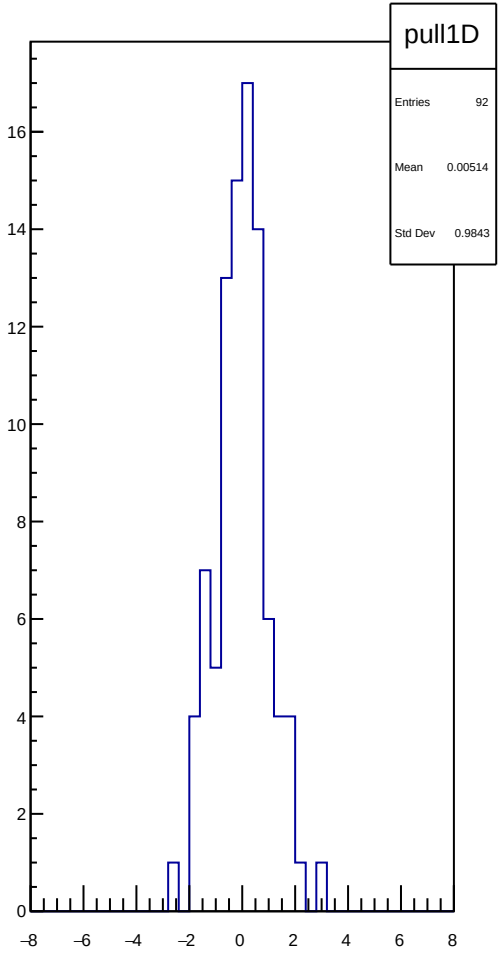

diff_bpm0r03X_rms vs run
χ² / ndf 3245 / 91
p0 7.203e+04 ± 54.27
82000
80000
78000
76000
74000
72000
70000
68000
66000
64000

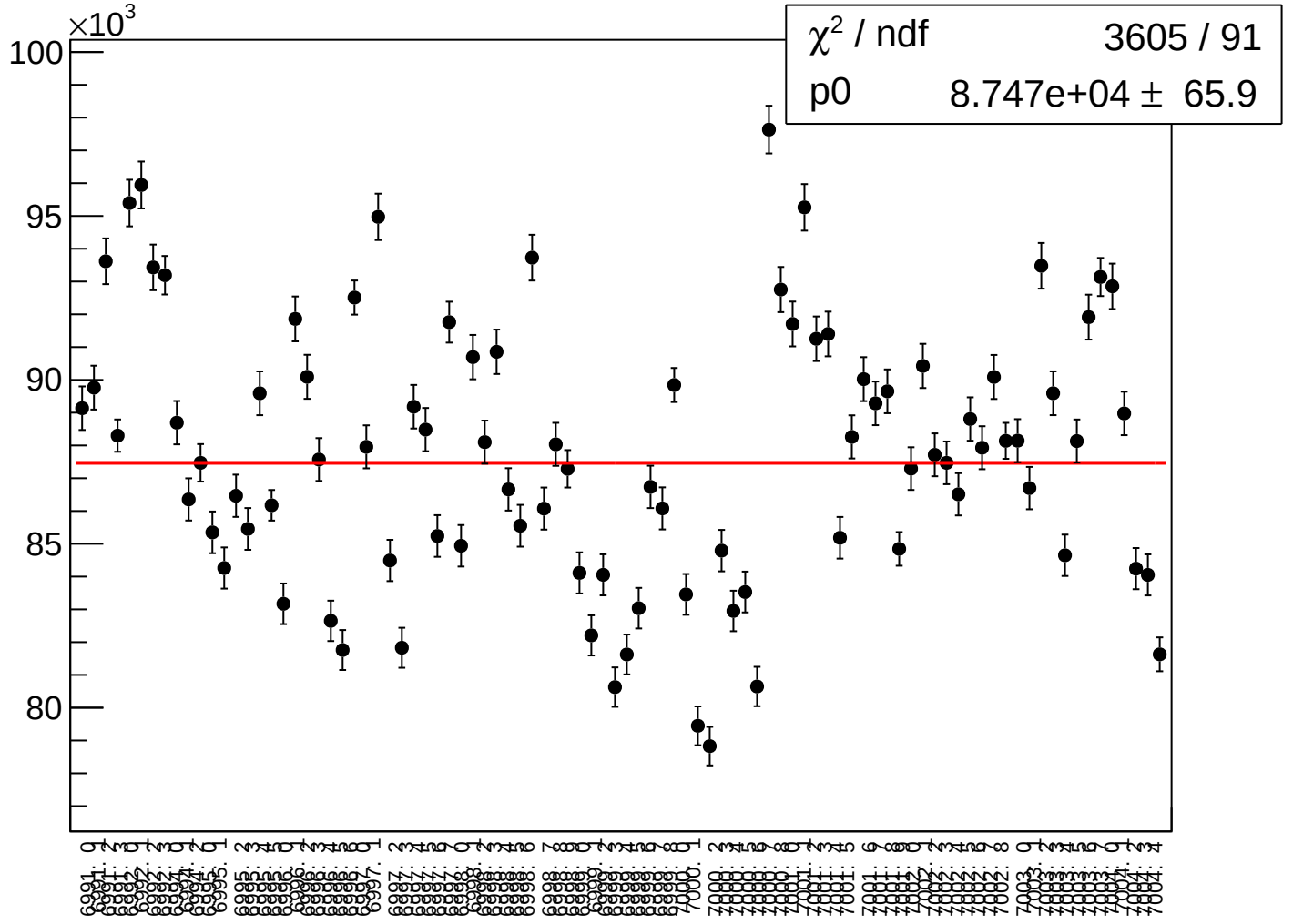

diff_bpm0r03Y_mean vs run
χ² / ndf 94.82 / 91
p0 3.223 ± 2.059
pull
Entries 92
Mean −1238
Std Dev 0

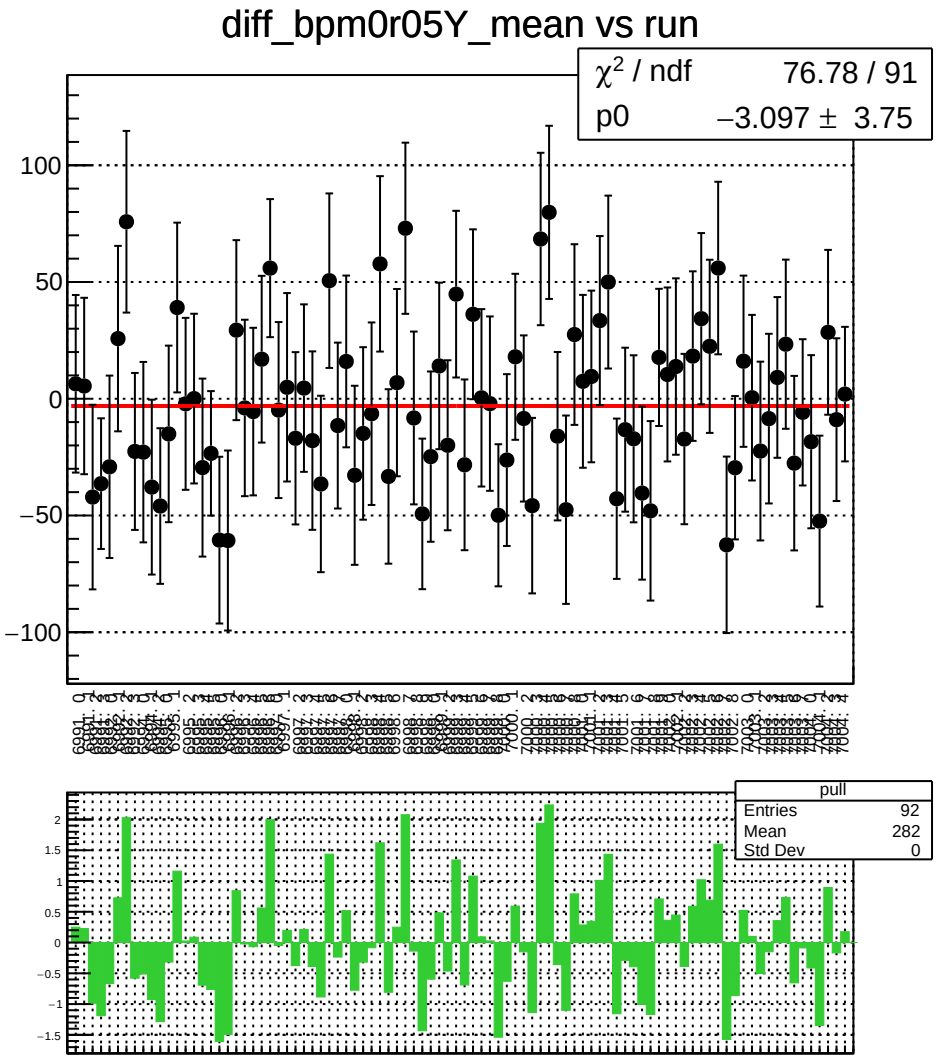

pull1D
Entries 92
Mean −0.004368
Std Dev 1.015

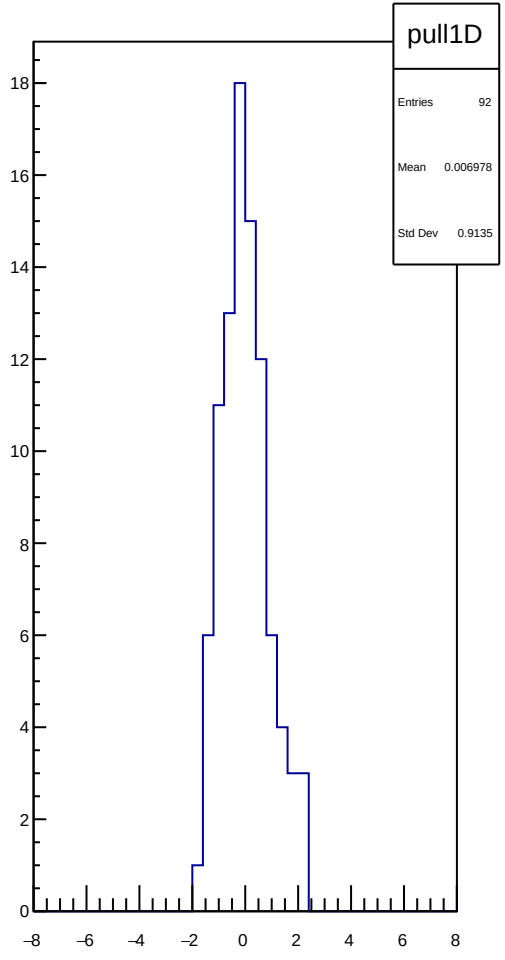

diff_bpm0r03Y_rms vs run
χ² / ndf 1.26e+04 / 91
p0 1927 ± 1.456
2100
2000
1900
1800
1700
1600
1500
1400

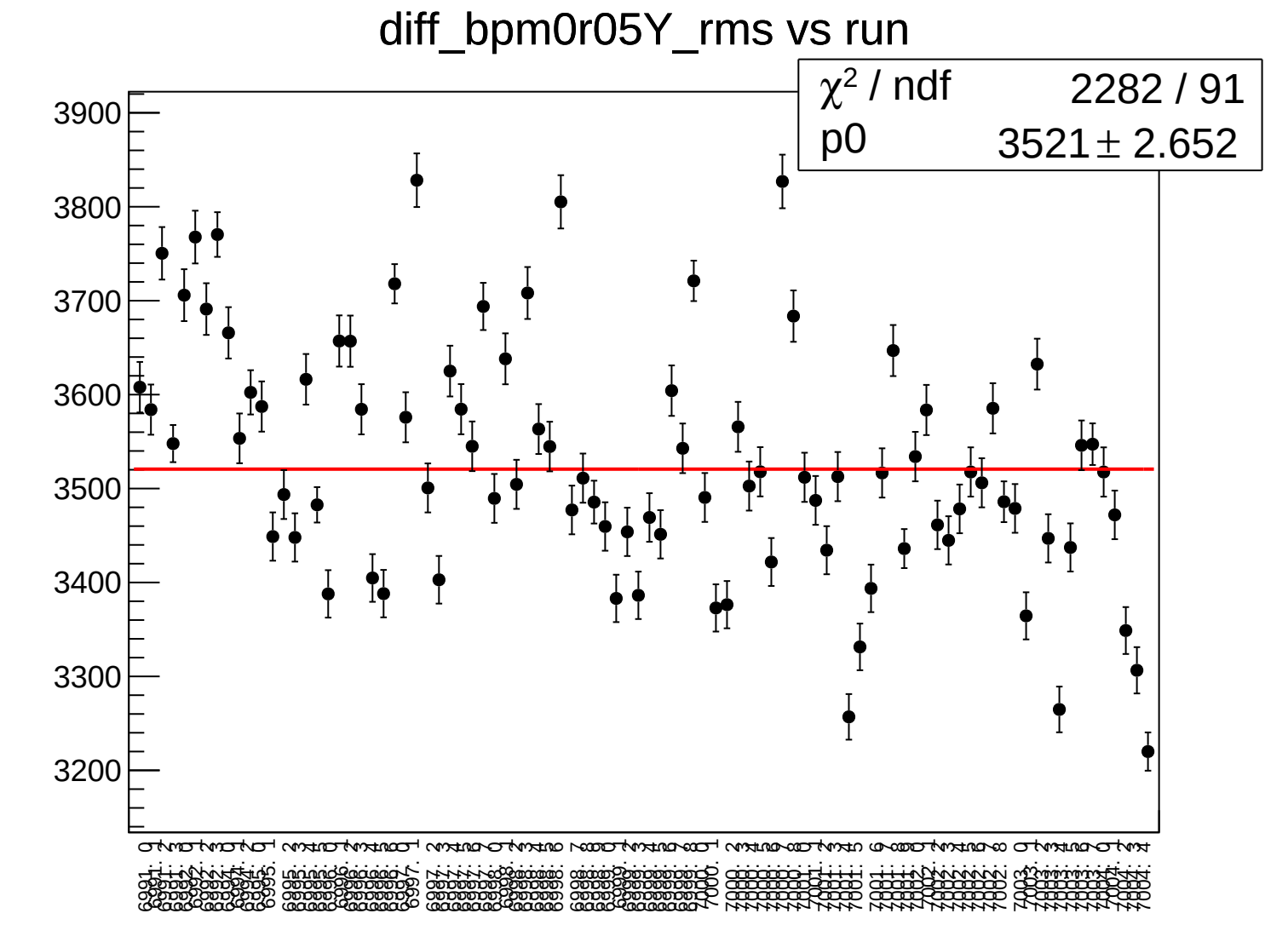

diff_bpm0r05X_mean vs run
χ² / ndf 89.13 / 91
p0 −14.47 ± 93.2
pull
Entries 92
Mean −94.23
Std Dev 0

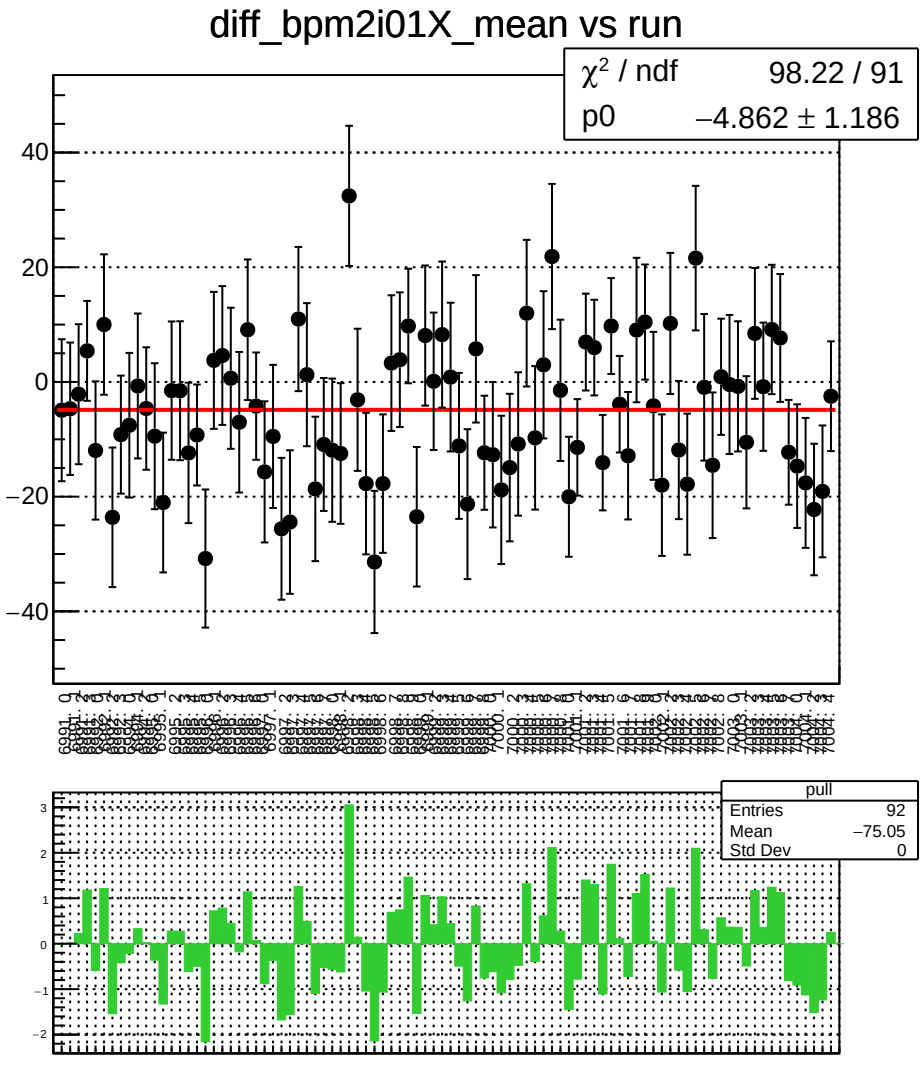

pull1D
Entries 92
Mean 0.00514
Std Dev 0.9843

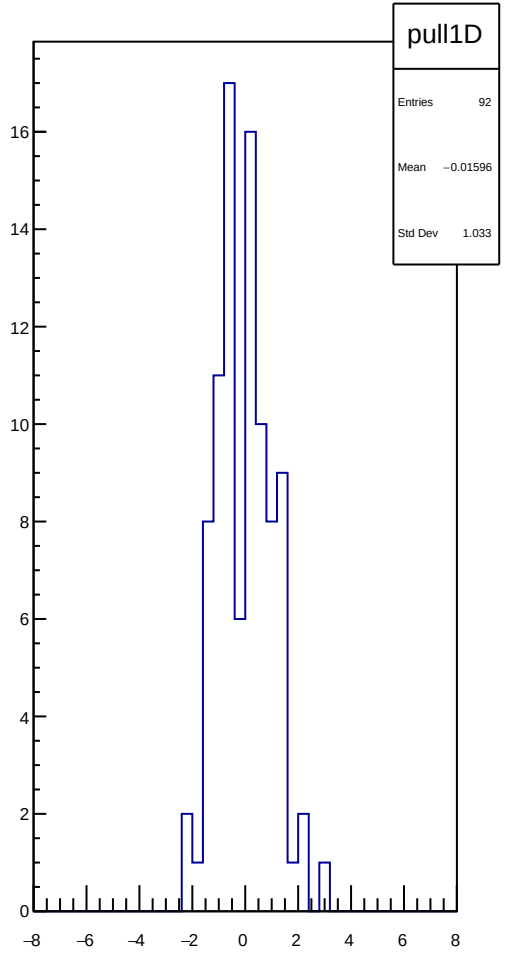

diff_bpm0r05X_rms vs run
×10^3
100
95
90
85
80
χ² / ndf 3605 / 91
p0 8.747e+04 ± 65.9

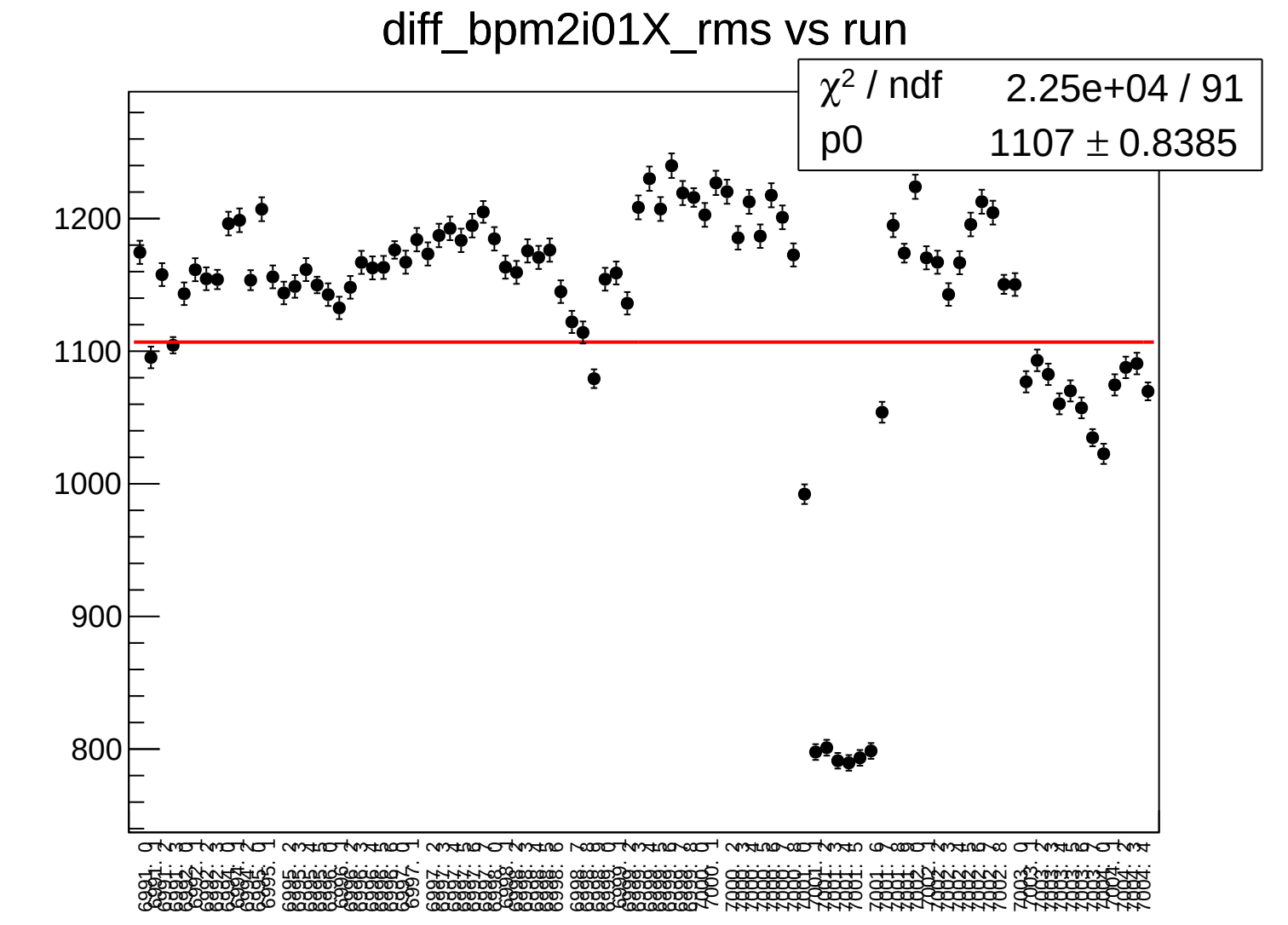

diff_bpm0r05Y_mean vs run
χ^2 / ndf 76.78 / 91
p0 −3.097 ± 3.75
100
50
0
−50
−100
pull
Entries 92
Mean 282
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

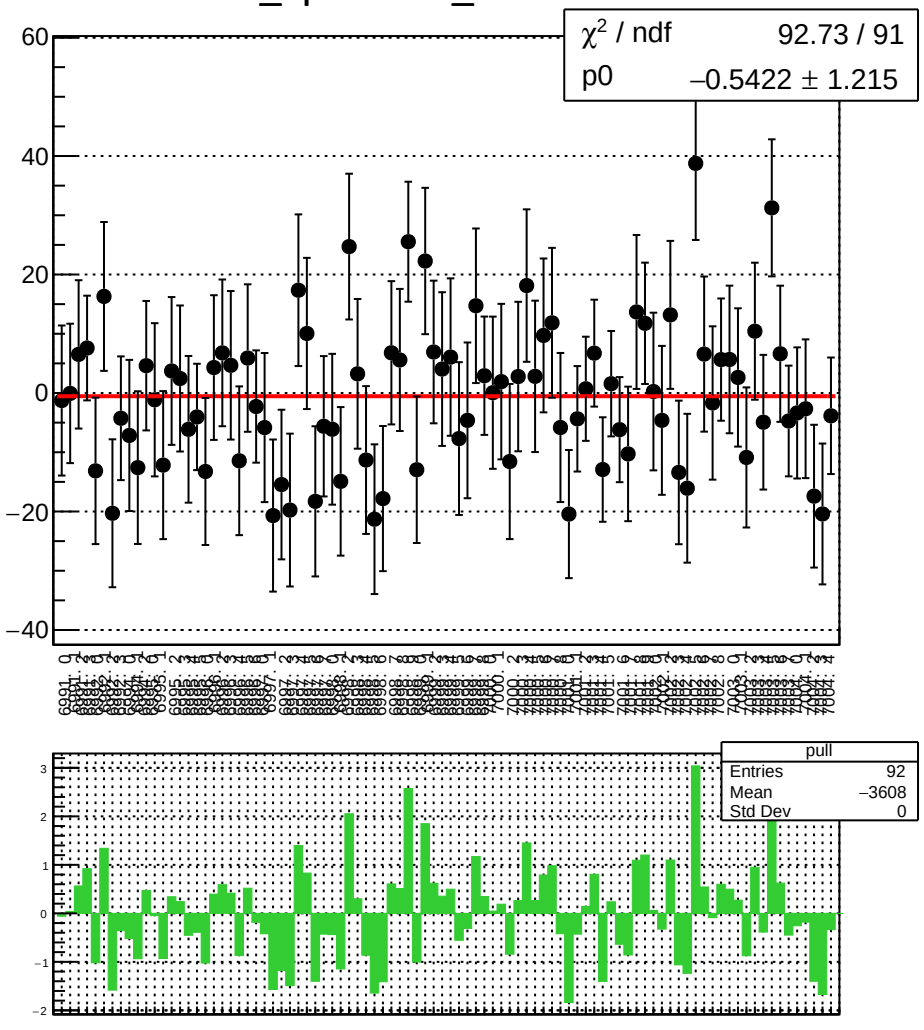

pull1D
Entries 92
Mean 0.006978
Std Dev 0.9135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

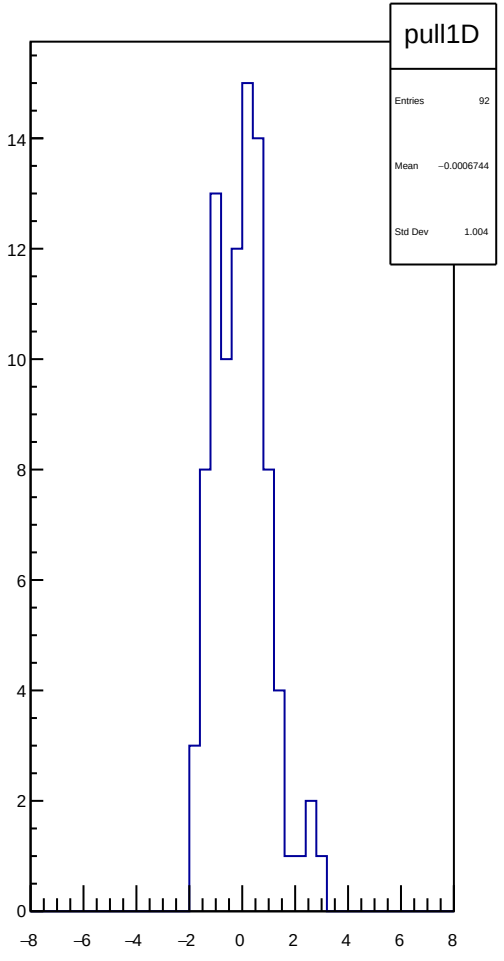

diff_bpm0r05Y_rms vs run
χ² / ndf 2282 / 91
p0 3521 ± 2.652
3900
3800
3700
3600
3500
3400
3300
3200

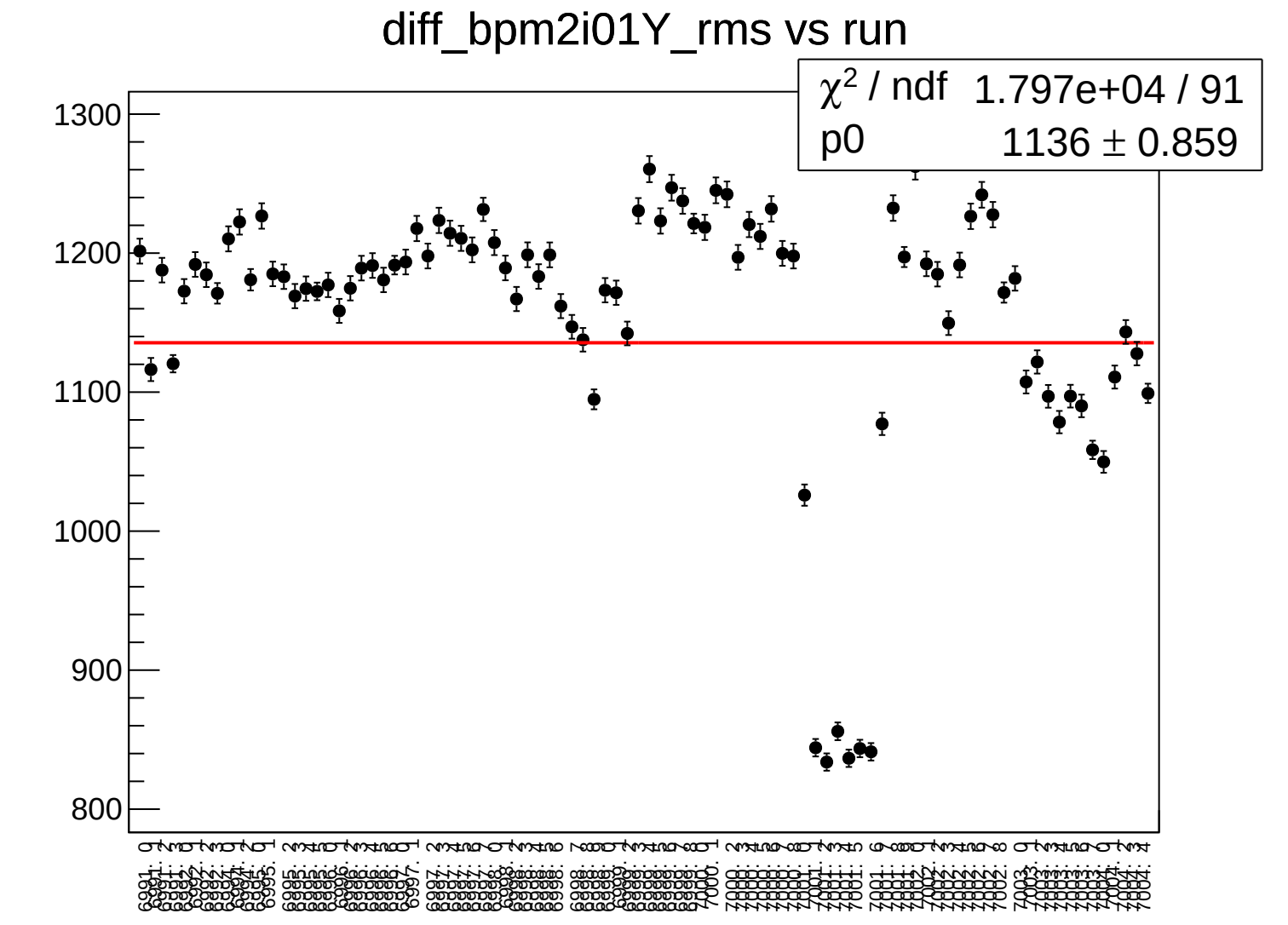

diff_bpm2i01X_mean vs run
χ² / ndf 98.22 / 91
p0 −4.862 ± 1.186
40
20
0
−20
−40
pull
Entries 92
Mean −75.05
Std Dev 0
3
2
1
0
−1
−2

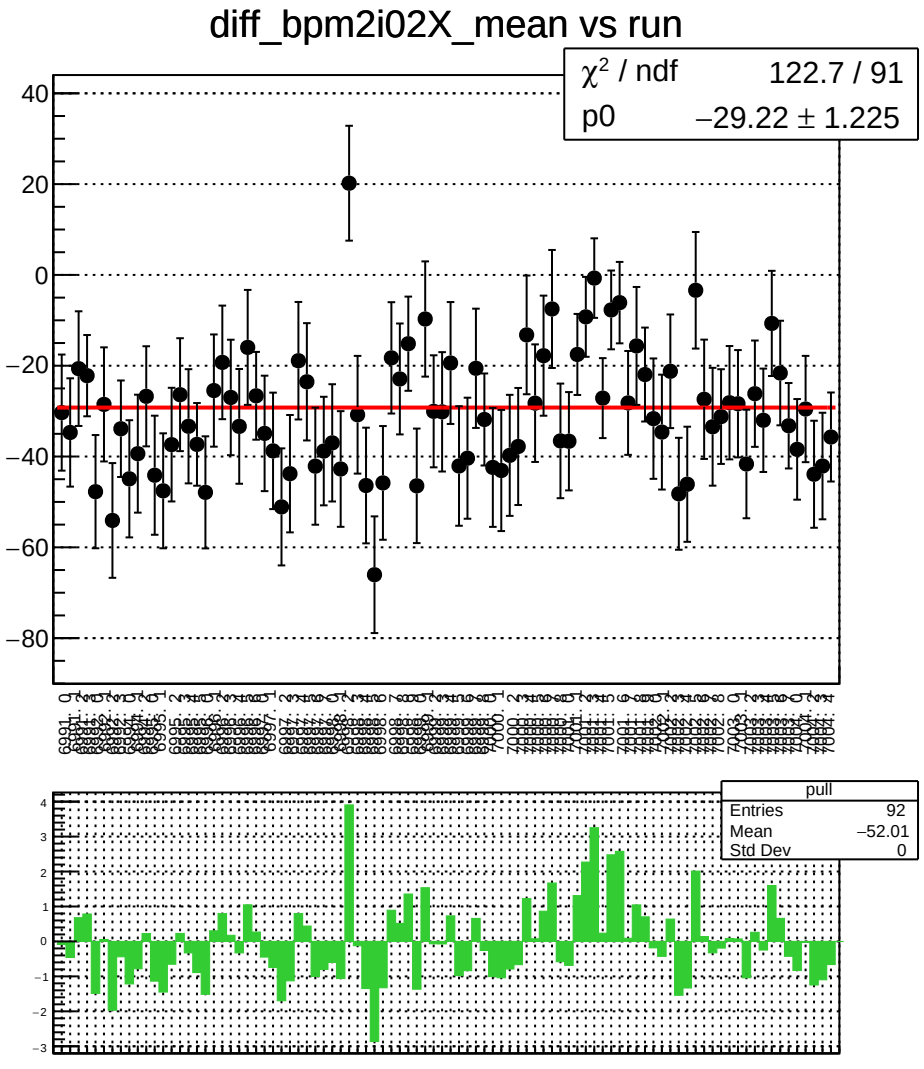

pull1D
Entries 92
Mean −0.01596
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

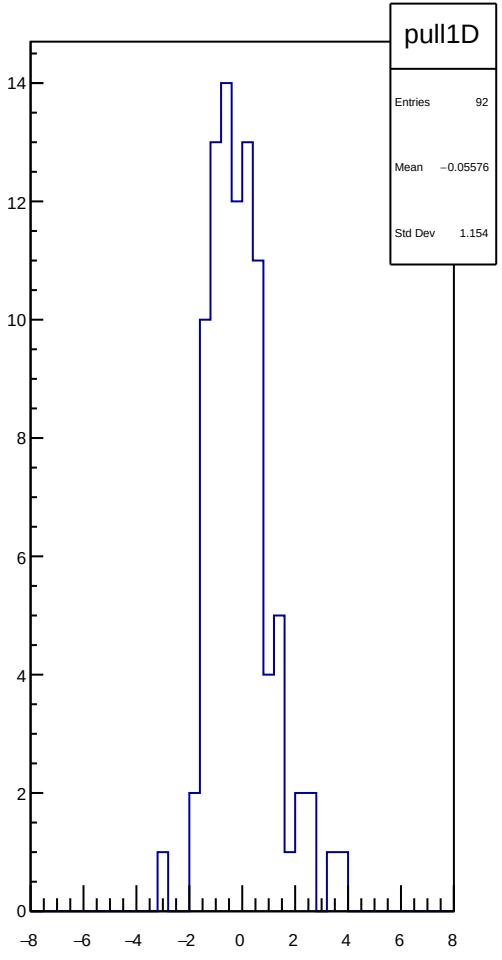

diff_bpm2i01X_rms vs run
χ² / ndf 2.25e+04 / 91
p0 1107 ± 0.8385
1200
1100
1000
900
800

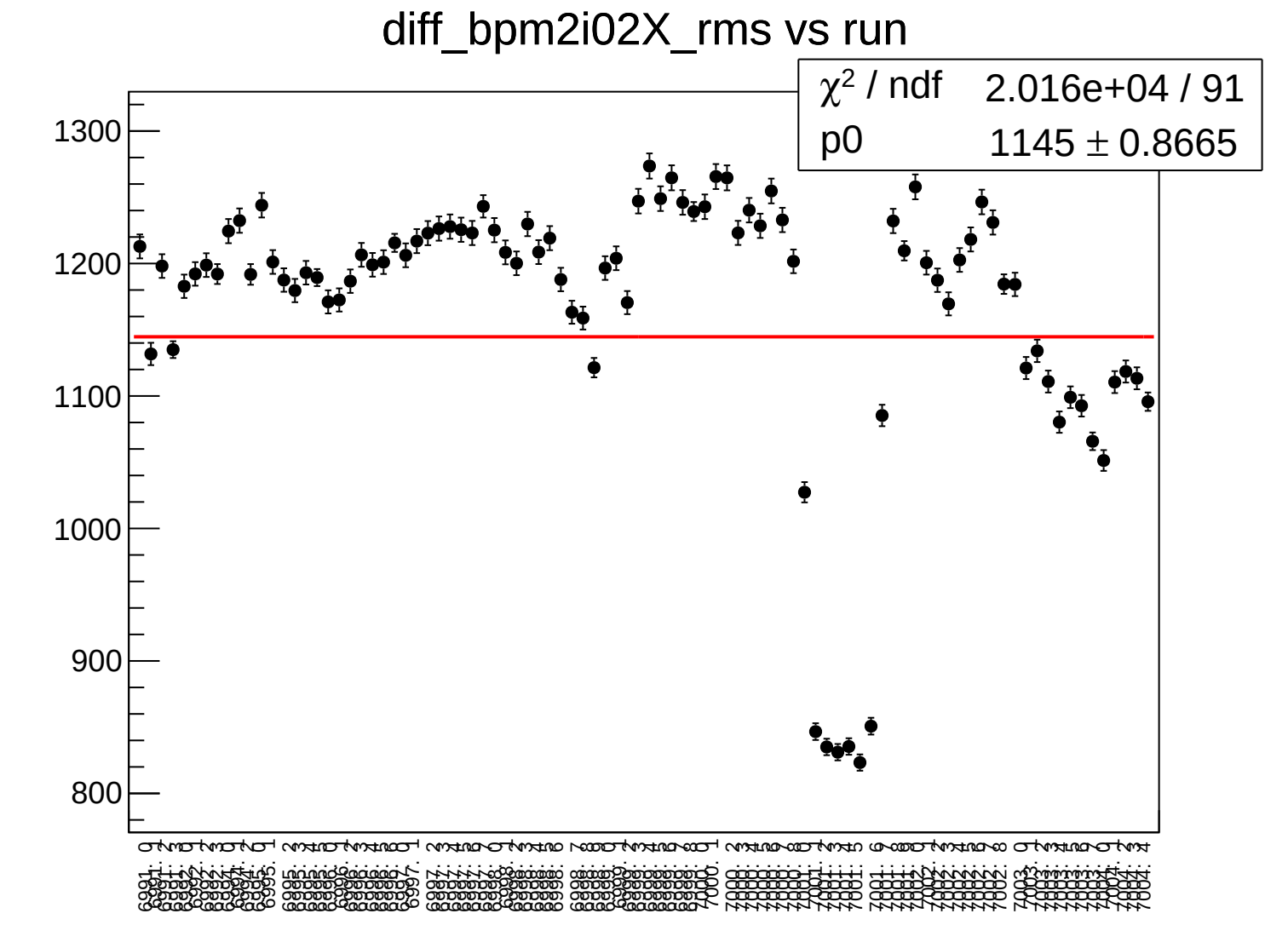

diff_bpm2i01Y_mean vs run
χ² / ndf 92.73 / 91
p0 −0.5422 ± 1.215
pull
Entries 92
Mean −3608
Std Dev 0

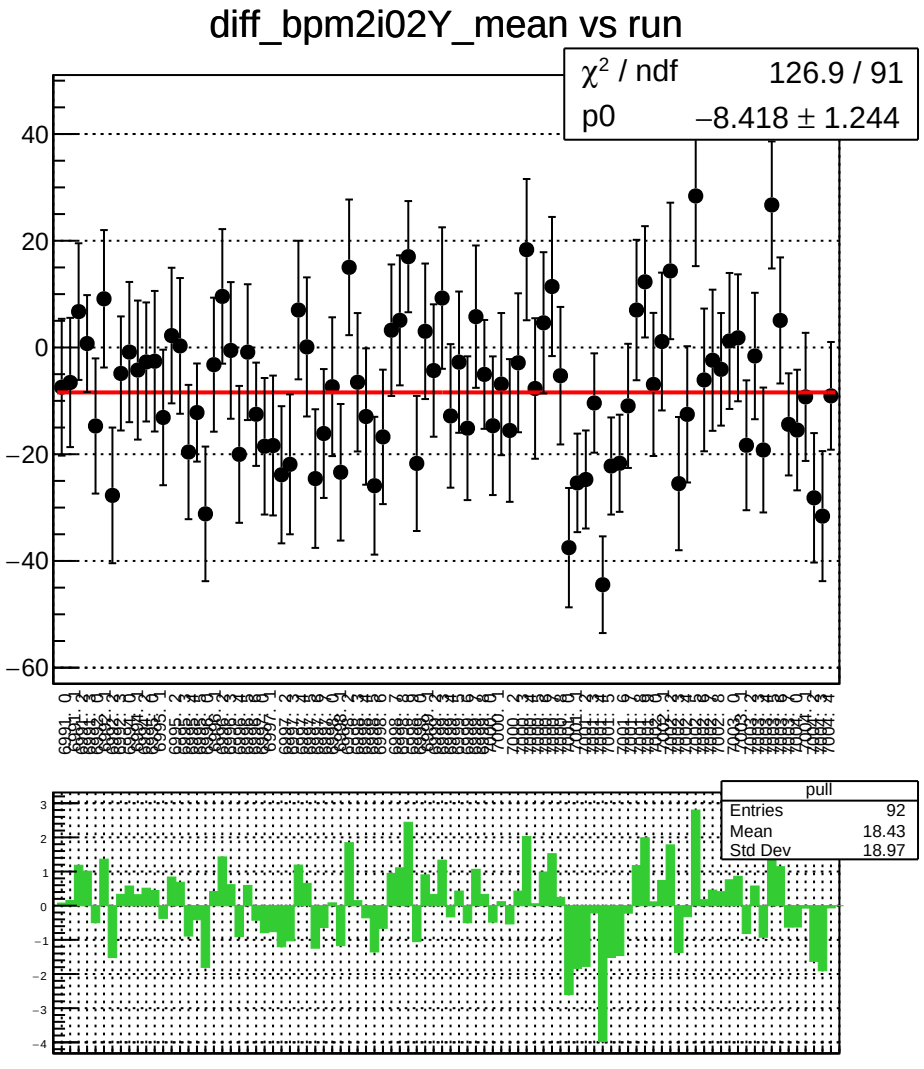

pull1D
Entries 92
Mean −0.0006744
Std Dev 1.004

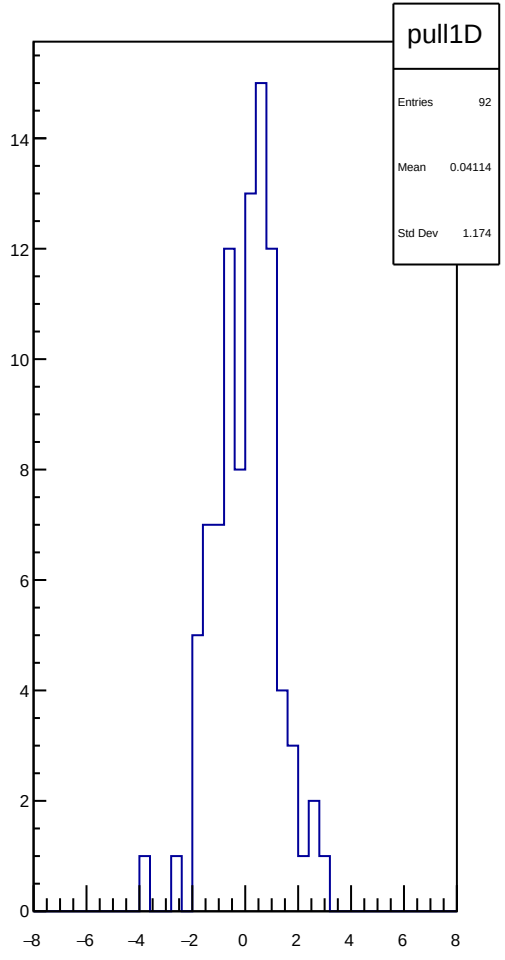

diff_bpm2i01Y_rms vs run
χ² / ndf 1.797e+04 / 91
p0 1136 ± 0.859
1300
1200
1100
1000
900
800

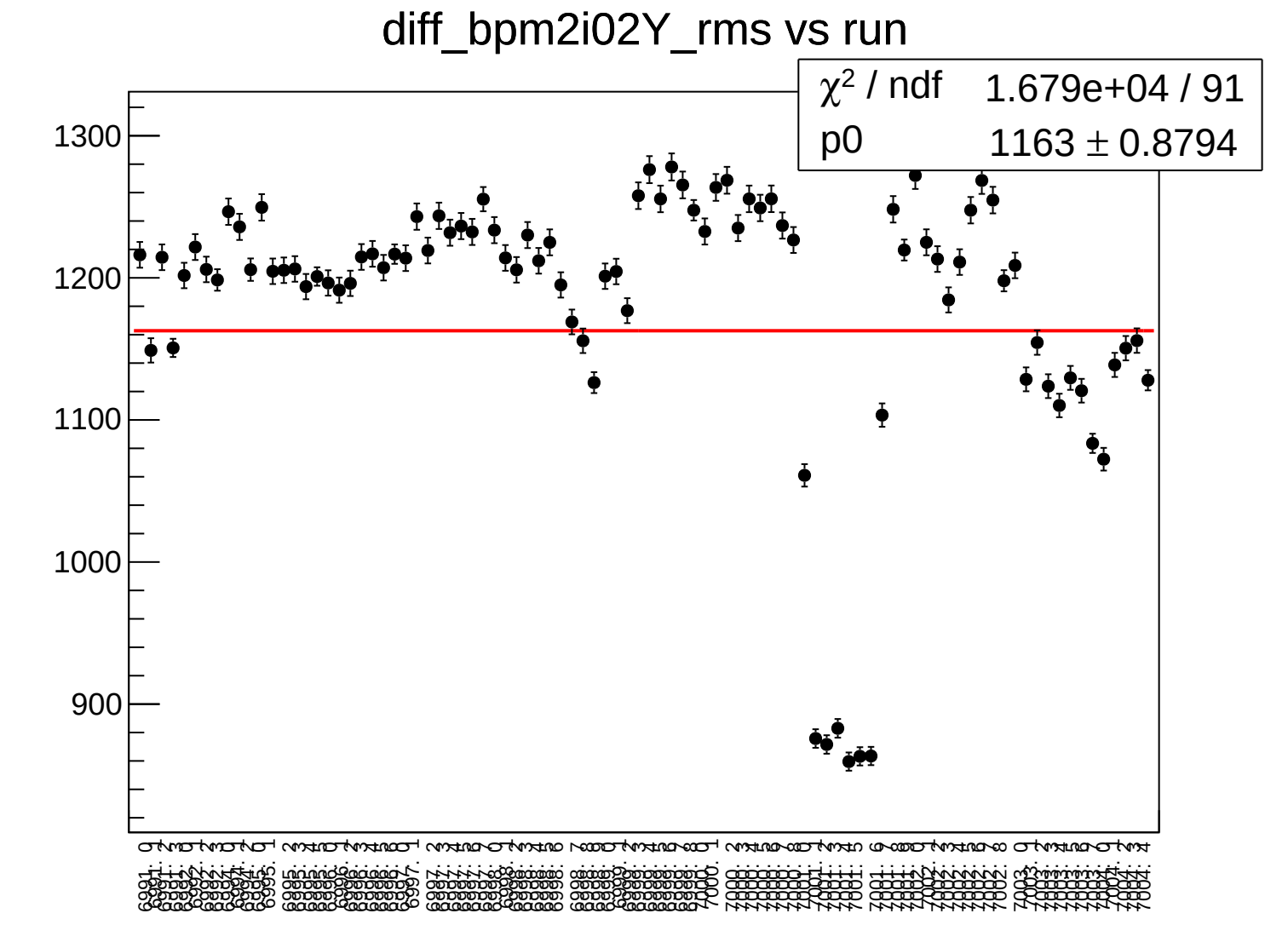

diff_bpm2i02X_mean vs run
χ² / ndf 122.7 / 91
p0 −29.22 ± 1.225
pull
Entries 92
Mean −52.01
Std Dev 0

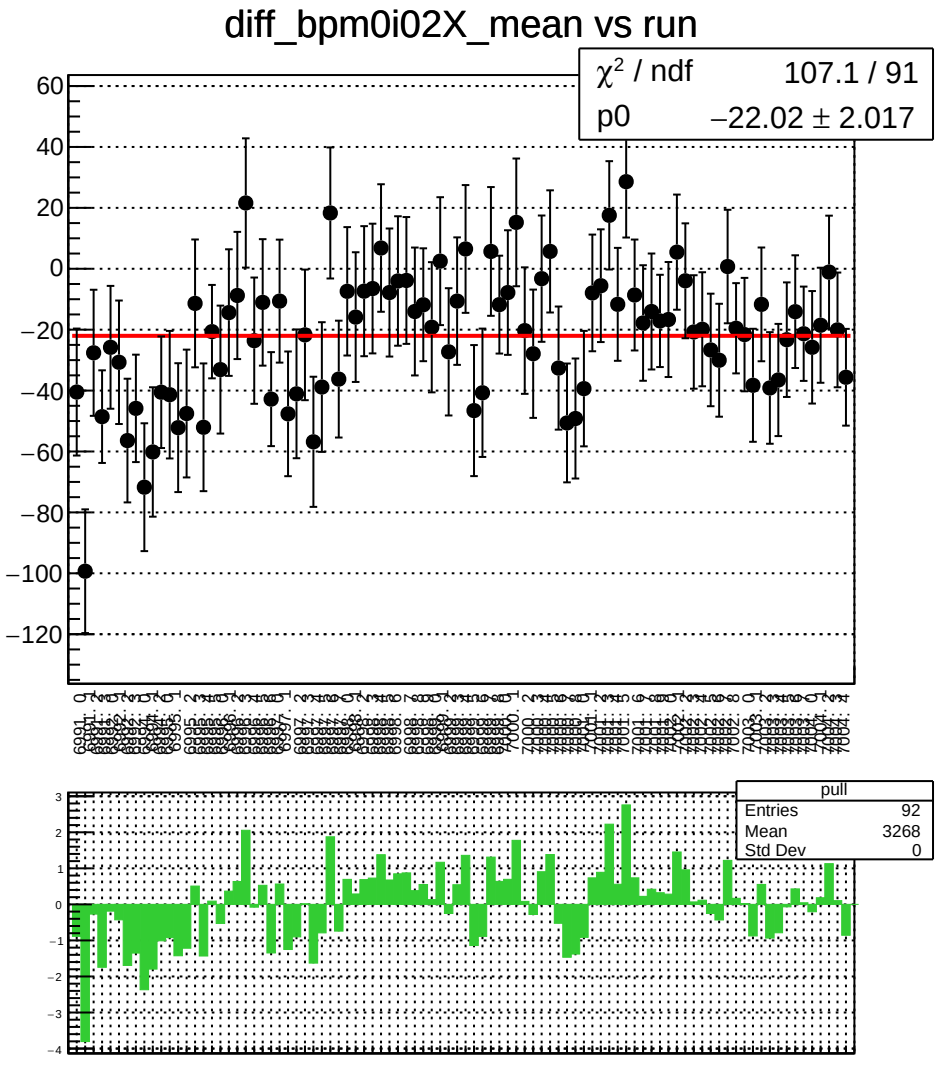

pull1D
Entries 92
Mean −0.05576
Std Dev 1.154

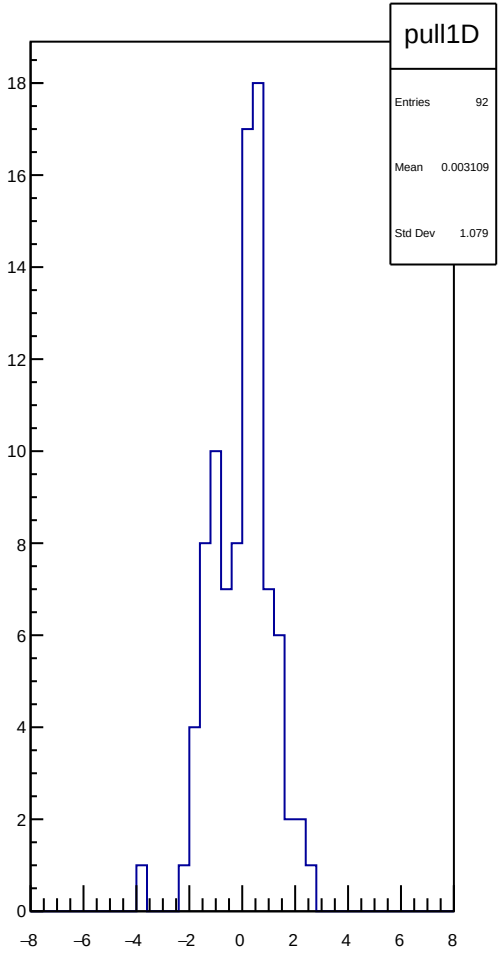

diff_bpm2i02X_rms vs run
χ² / ndf 2.016e+04 / 91
p0 1145 ± 0.8665
1300
1200
1100
1000
900
800

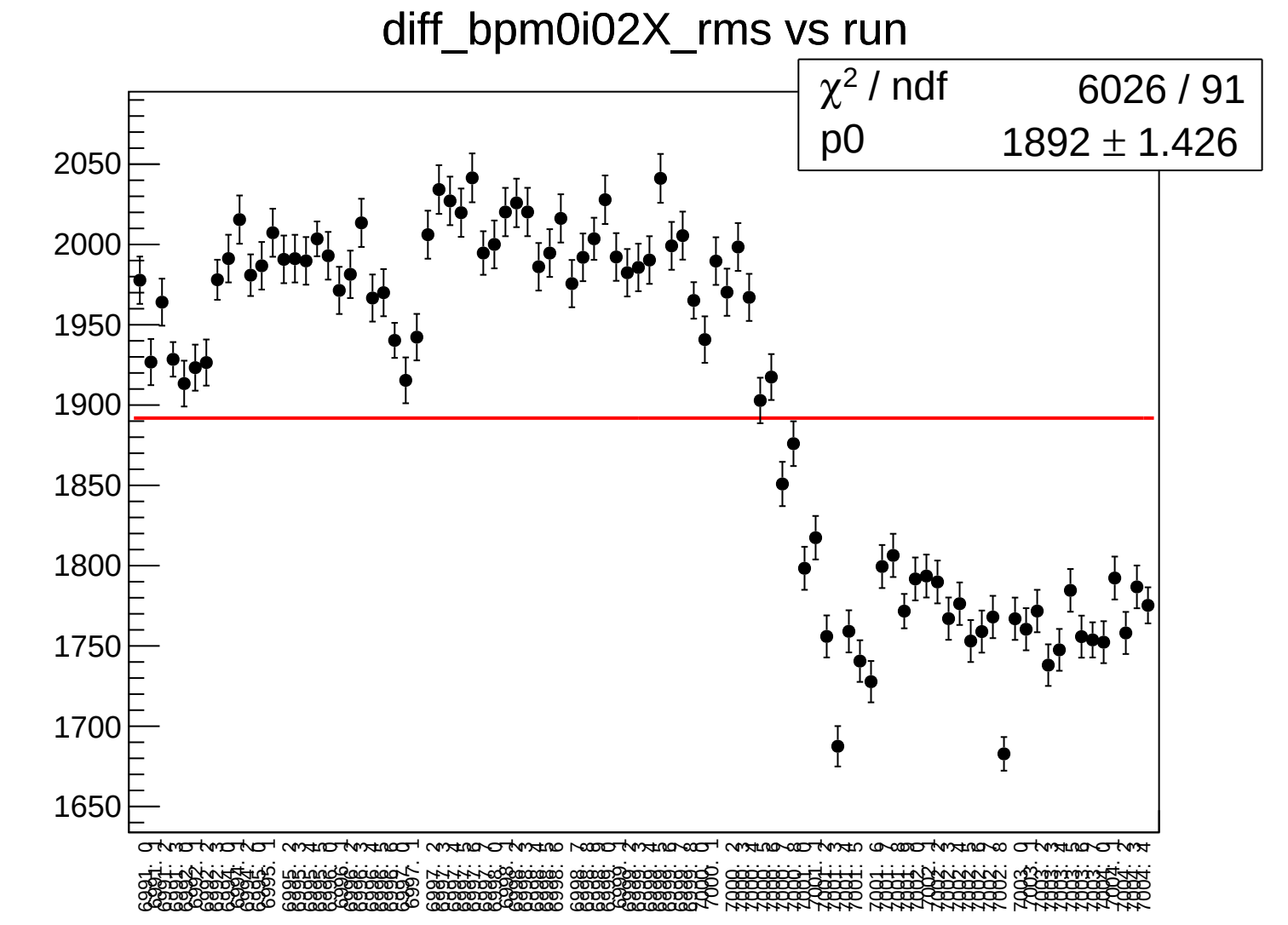

diff_bpm2i02Y_mean vs run
χ² / ndf 126.9 / 91
p0 −8.418 ± 1.244
40
20
0
−20
−40
−60
pull
Entries 92
Mean 18.43
Std Dev 18.97
3
2
1
0
−1
−2
−3
−4

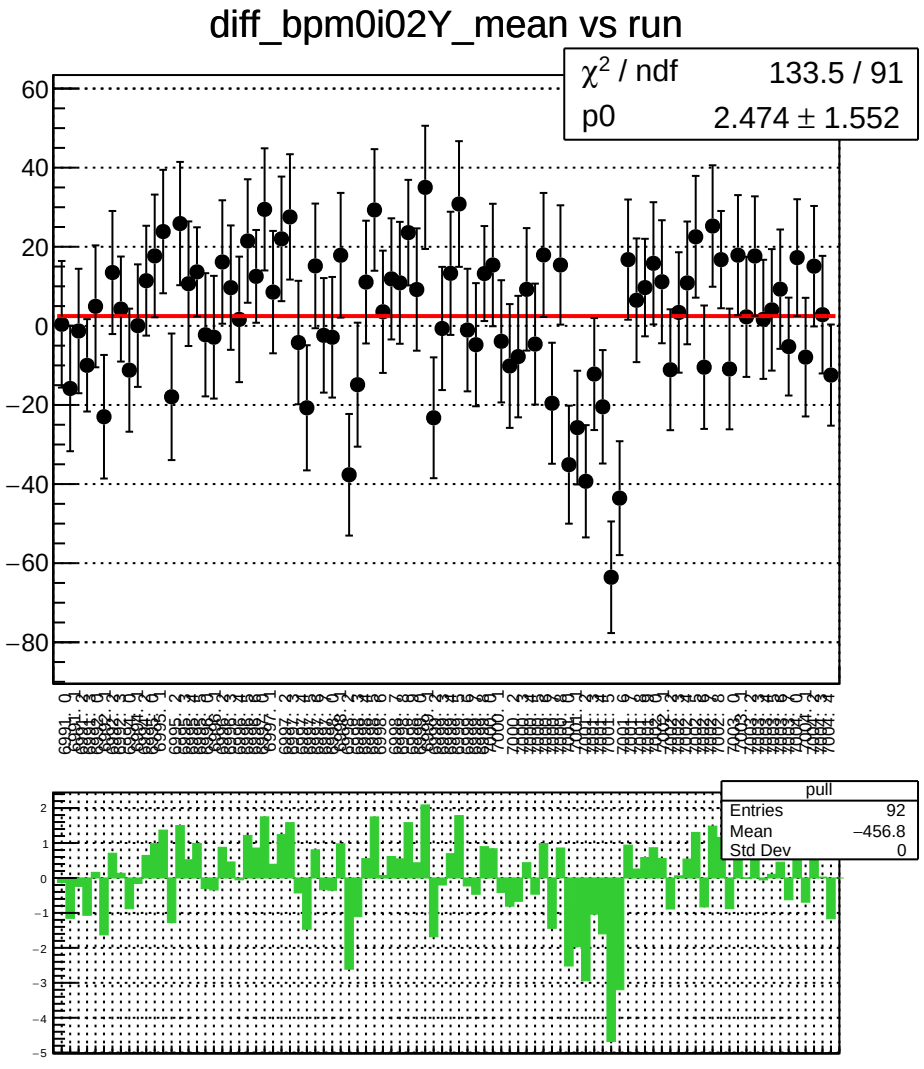

pull1D
Entries 92
Mean 0.04114
Std Dev 1.174
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

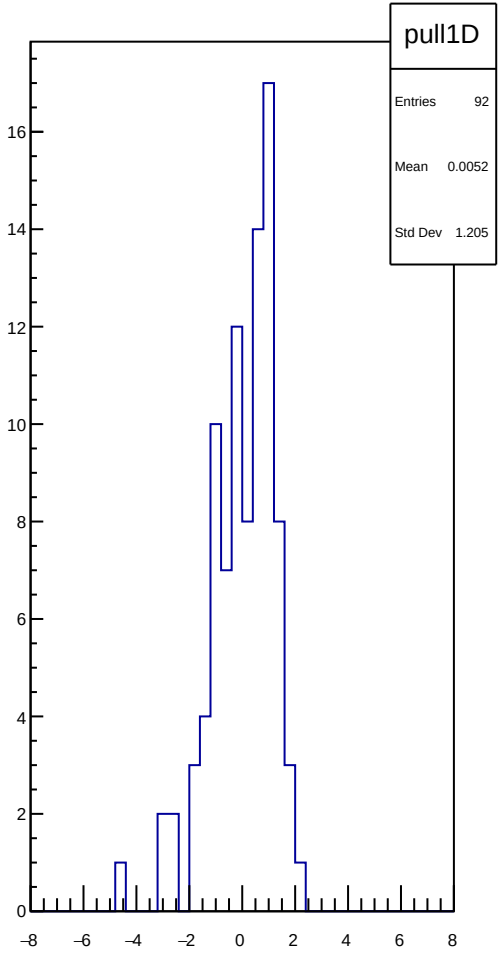

diff_bpm2i02Y_rms vs run
χ² / ndf 1.679e+04 / 91
p0 1163 ± 0.8794
1300
1200
1100
1000
900

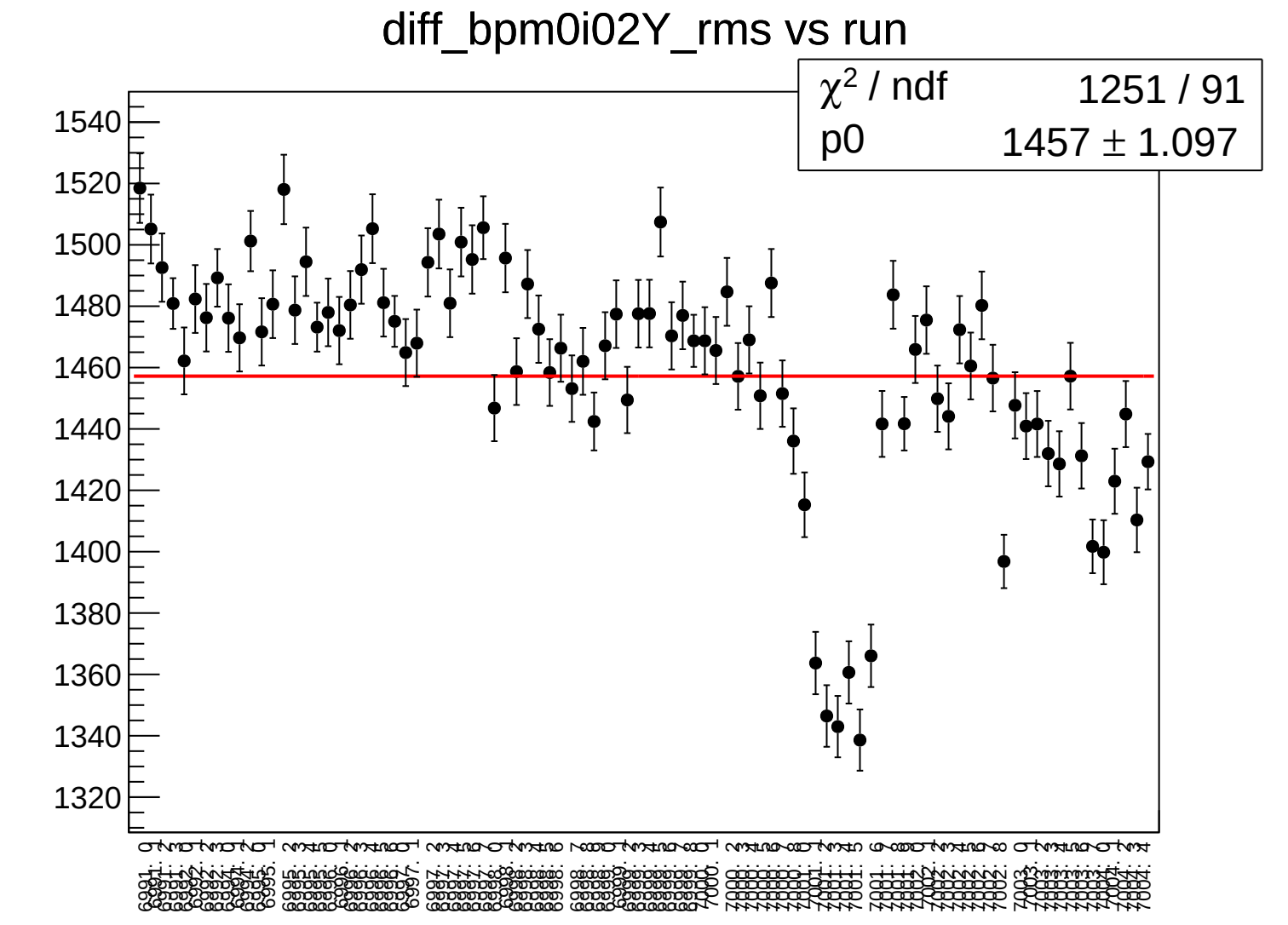

diff_bpm0i02X_mean vs run
χ² / ndf 107.1 / 91
p0 −22.02 ± 2.017
pull
Entries 92
Mean 3268
Std Dev 0

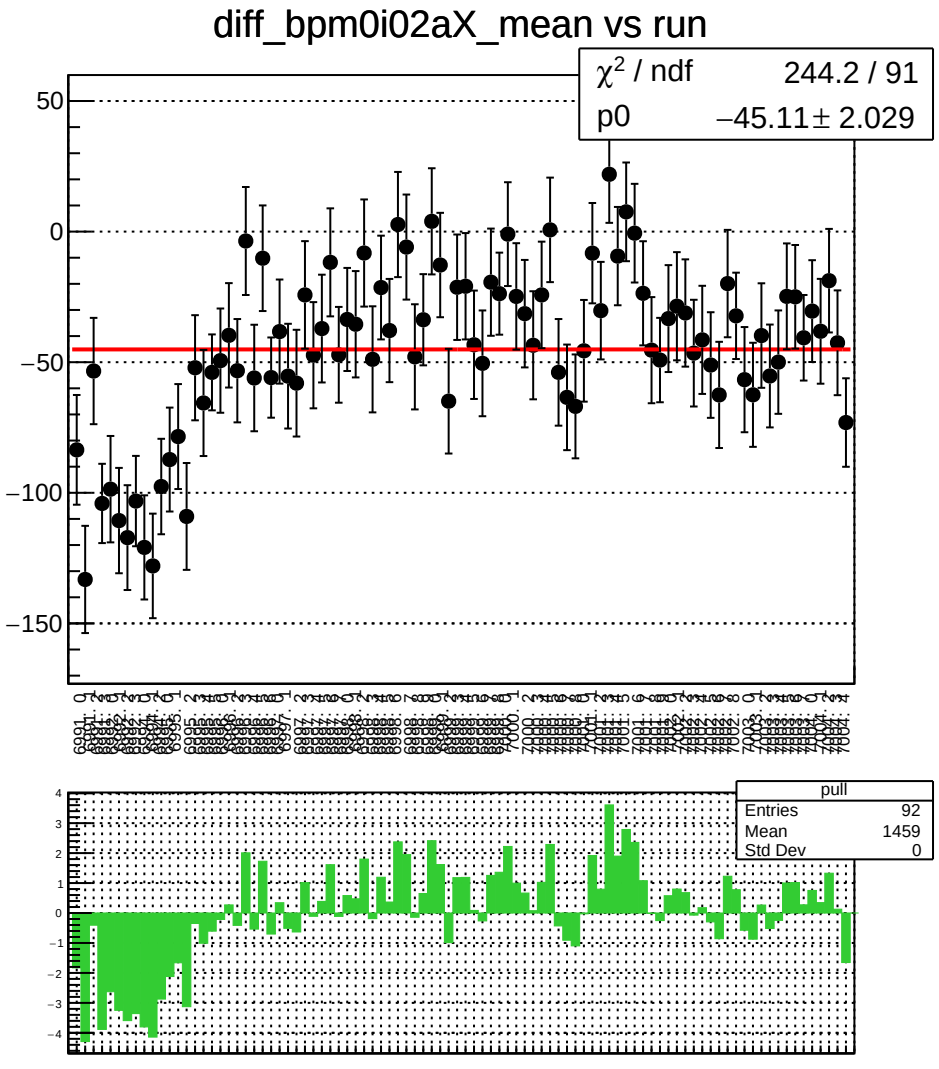

pull1D
Entries 92
Mean 0.003109
Std Dev 1.079

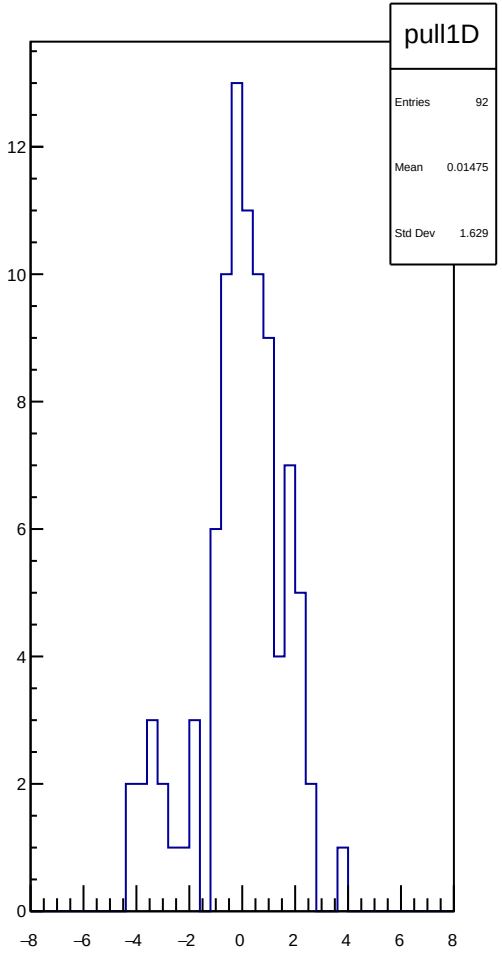

diff_bpm0i02X_rms vs run
χ² / ndf 6026 / 91
p0 1892 ± 1.426
2050
2000
1950
1900
1850
1800
1750
1700
1650

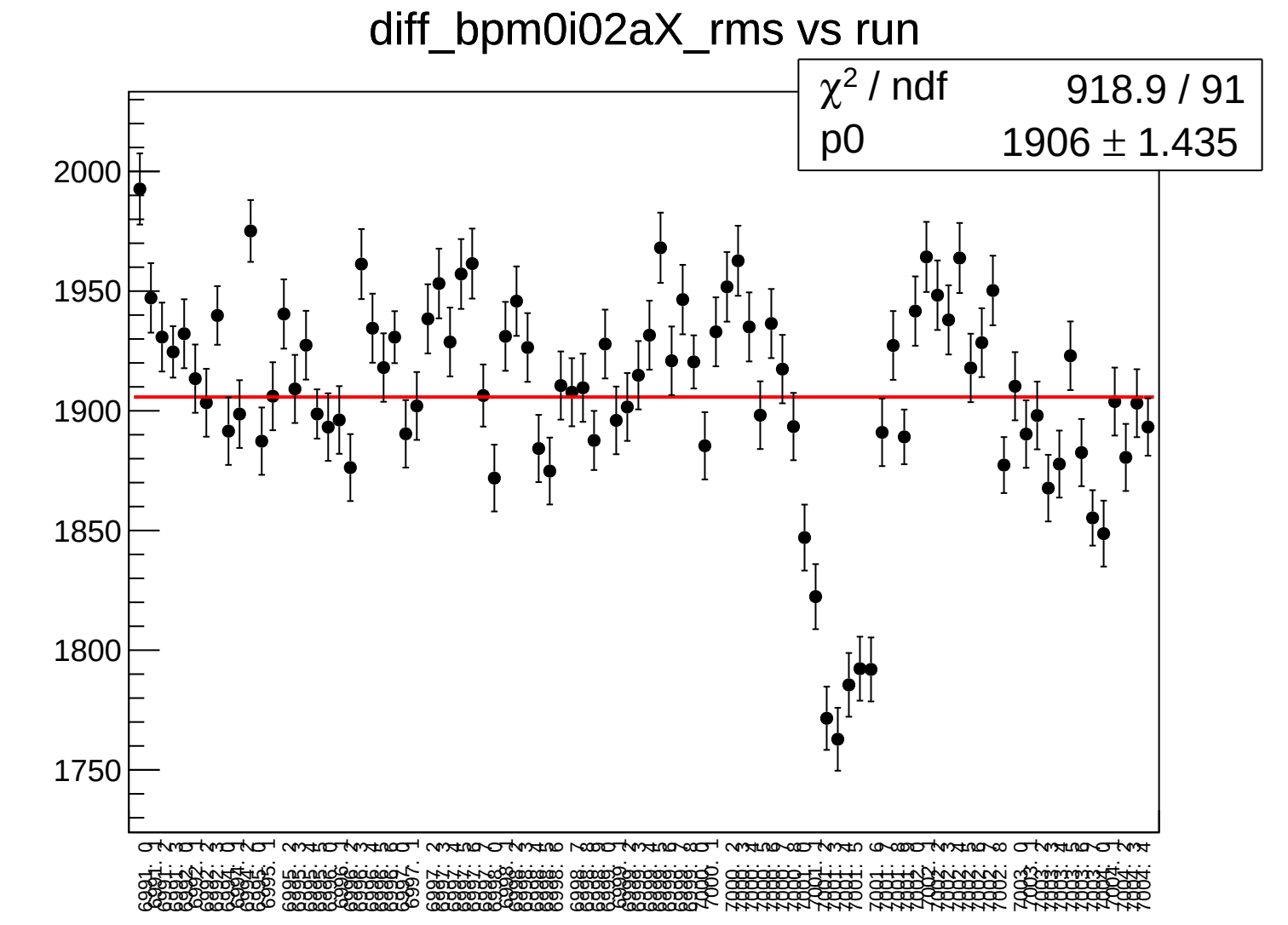

diff_bpm0i02Y_mean vs run
χ² / ndf 133.5 / 91
p0 2.474 ± 1.552
pull
Entries 92
Mean −456.8
Std Dev 0

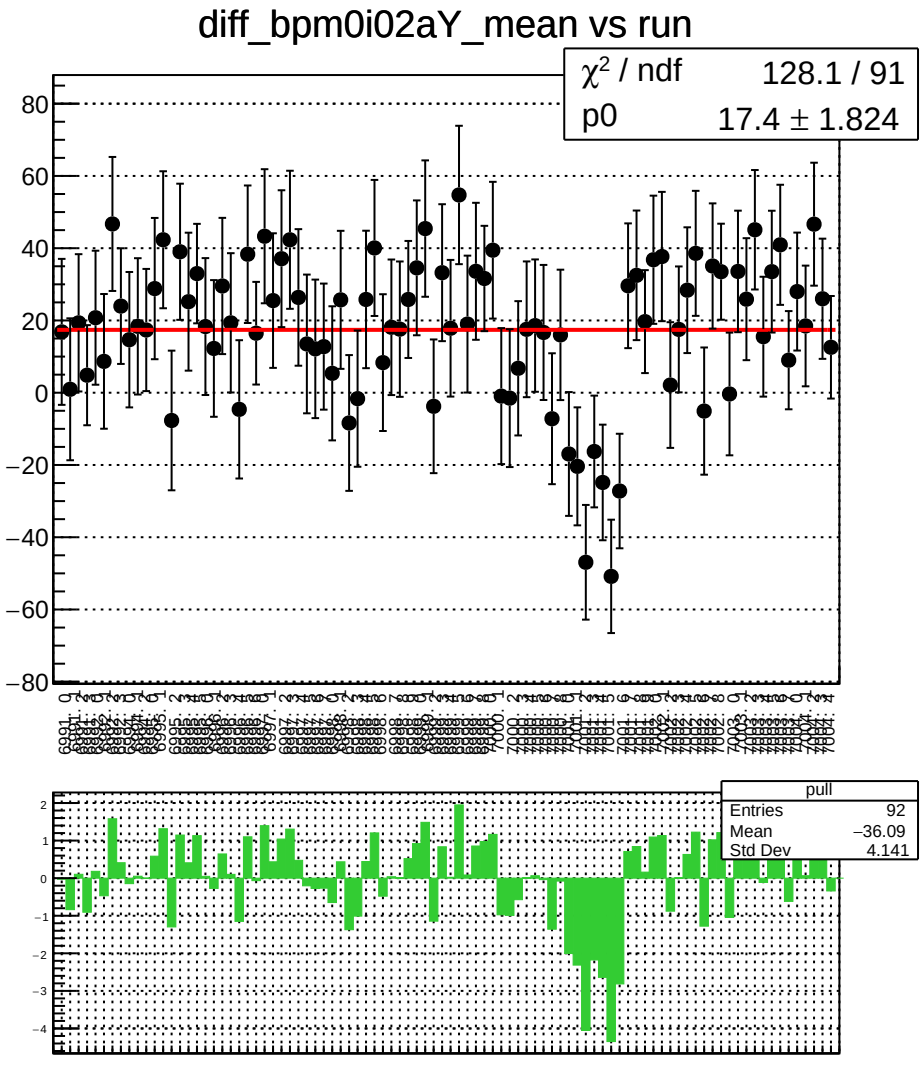

pull1D
Entries 92
Mean 0.0052
Std Dev 1.205

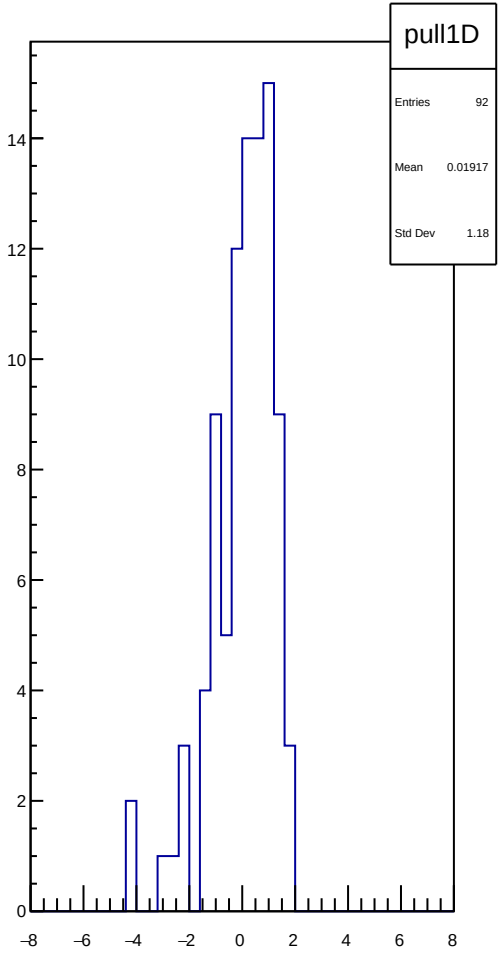

diff_bpm0i02Y_rms vs run
χ² / ndf 1251 / 91
p0 1457 ± 1.097
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

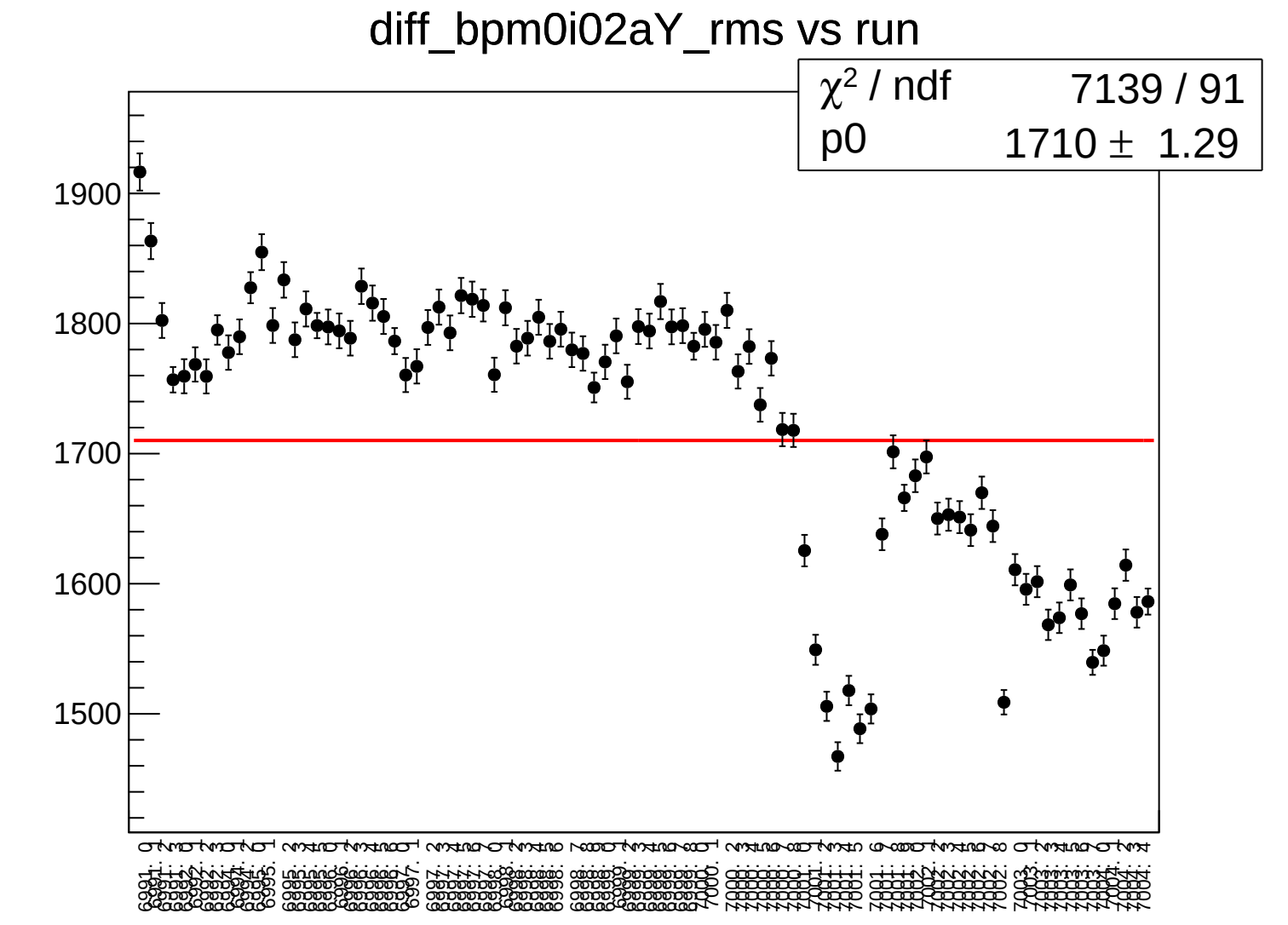

diff_bpm0i02aX_mean vs run
χ² / ndf 244.2 / 91
p0 −45.11 ± 2.029
50
0
−50
−100
−150
pull
Entries 92
Mean 1459
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

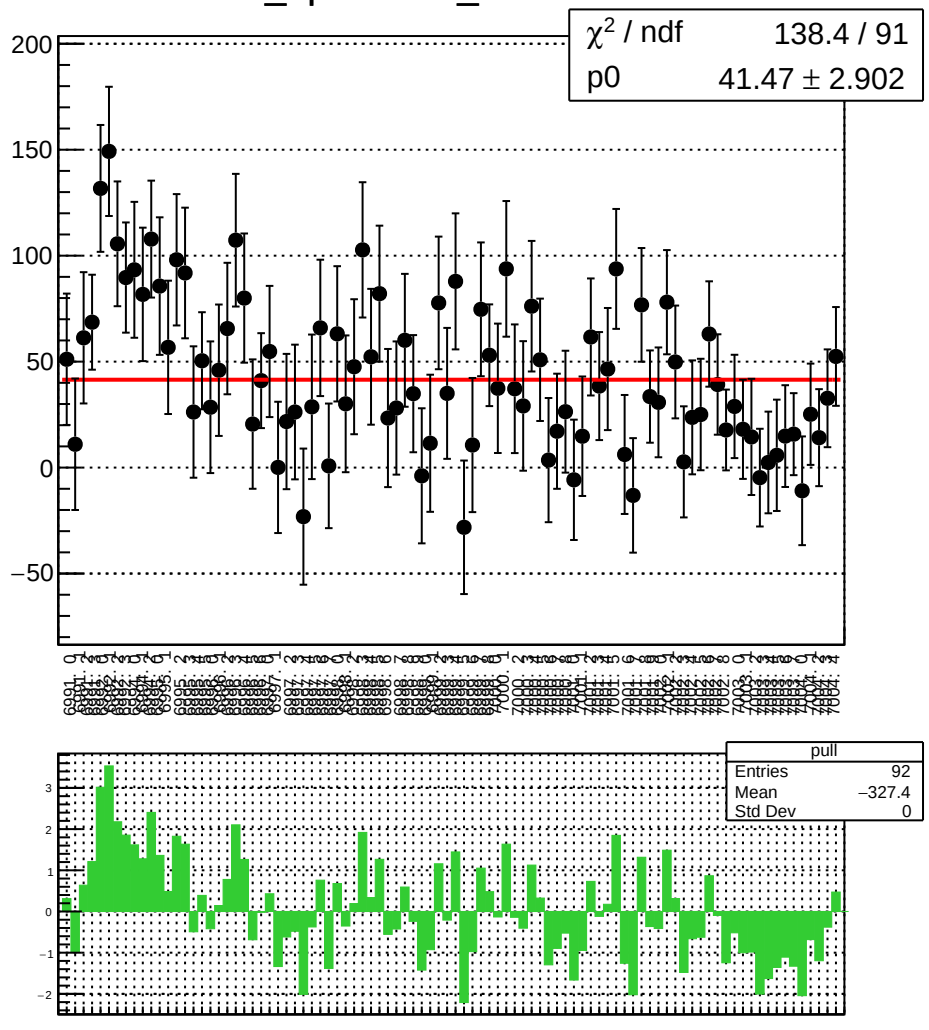

pull1D
Entries 92
Mean 0.01475
Std Dev 1.629
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

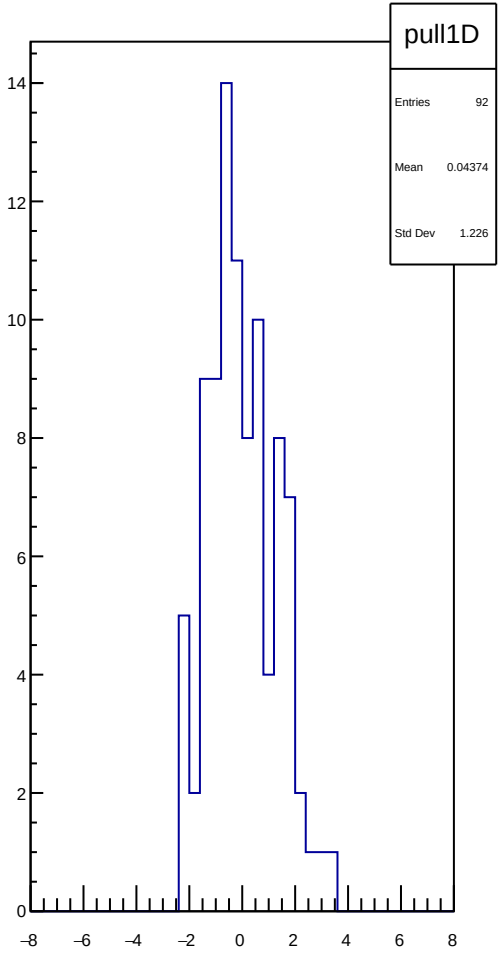

diff_bpm0i02aX_rms vs run
χ² / ndf 918.9 / 91
p0 1906 ± 1.435
2000
1950
1900
1850
1800
1750

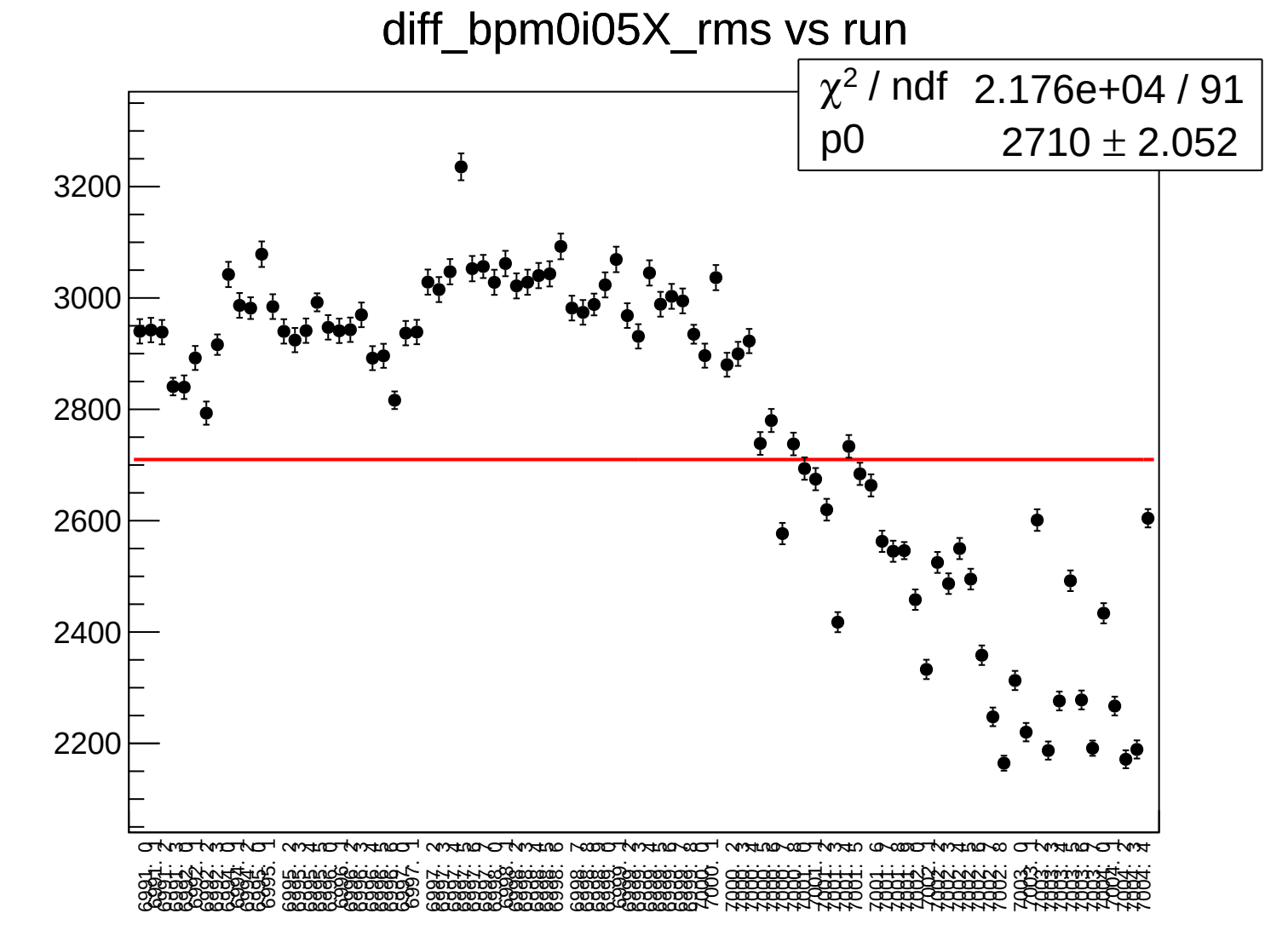

diff_bpm0i02aY_mean vs run
χ² / ndf 128.1 / 91
p0 17.4 ± 1.824
pull
Entries 92
Mean −36.09
Std Dev 4.141

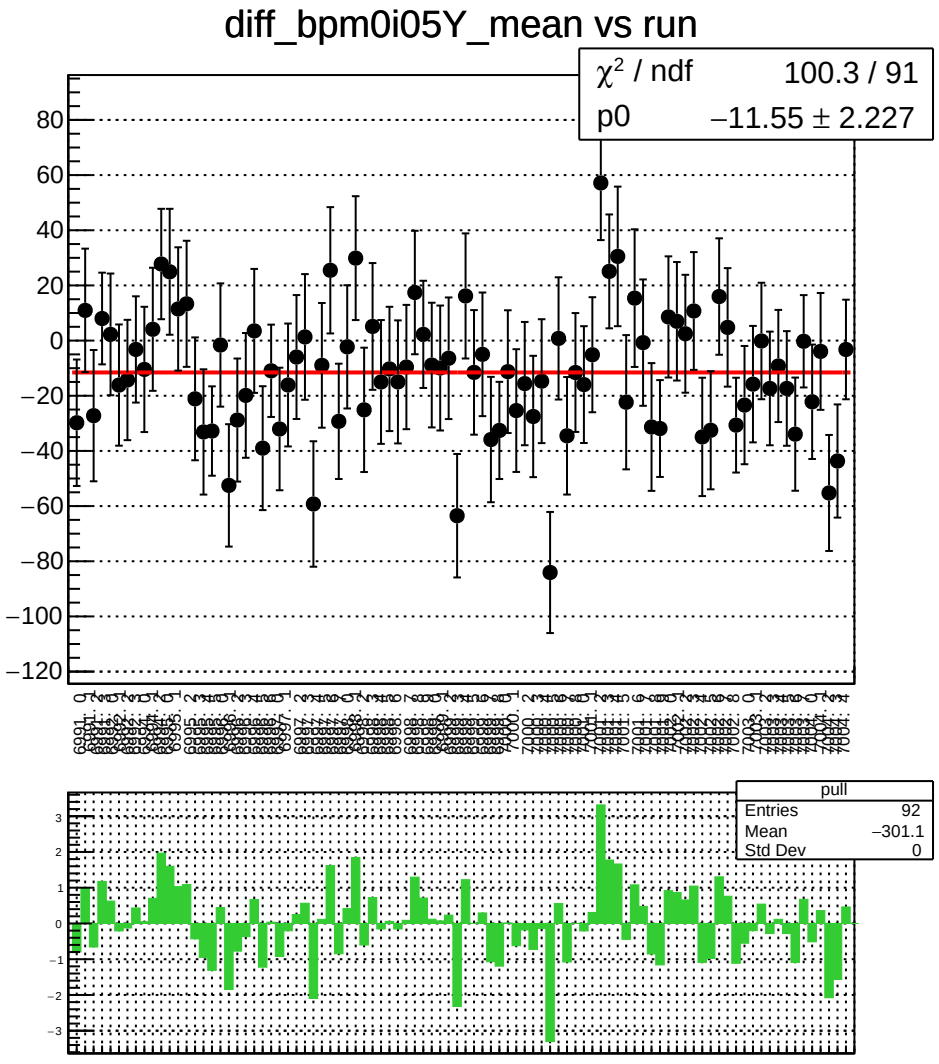

pull1D
Entries 92
Mean 0.01917
Std Dev 1.18

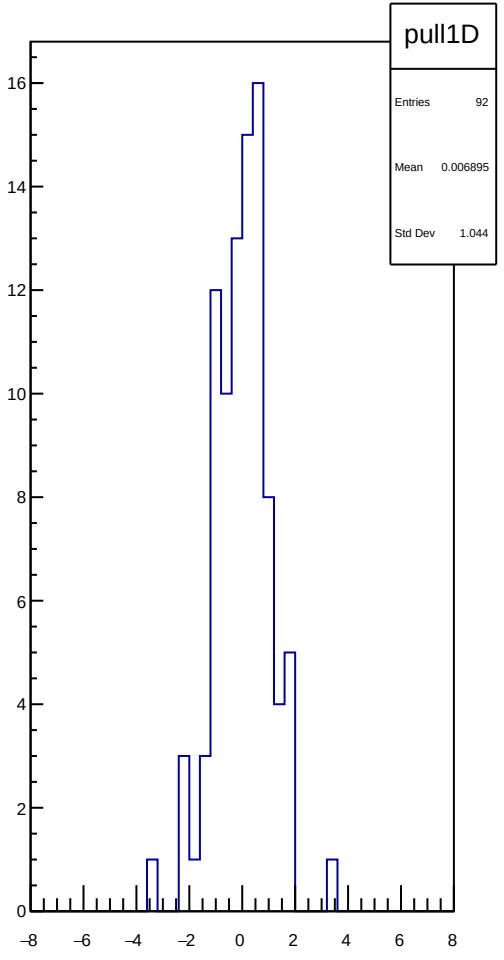

diff_bpm0i02aY_rms vs run
χ² / ndf 7139 / 91
p0 1710 ± 1.29
1900
1800
1700
1600
1500

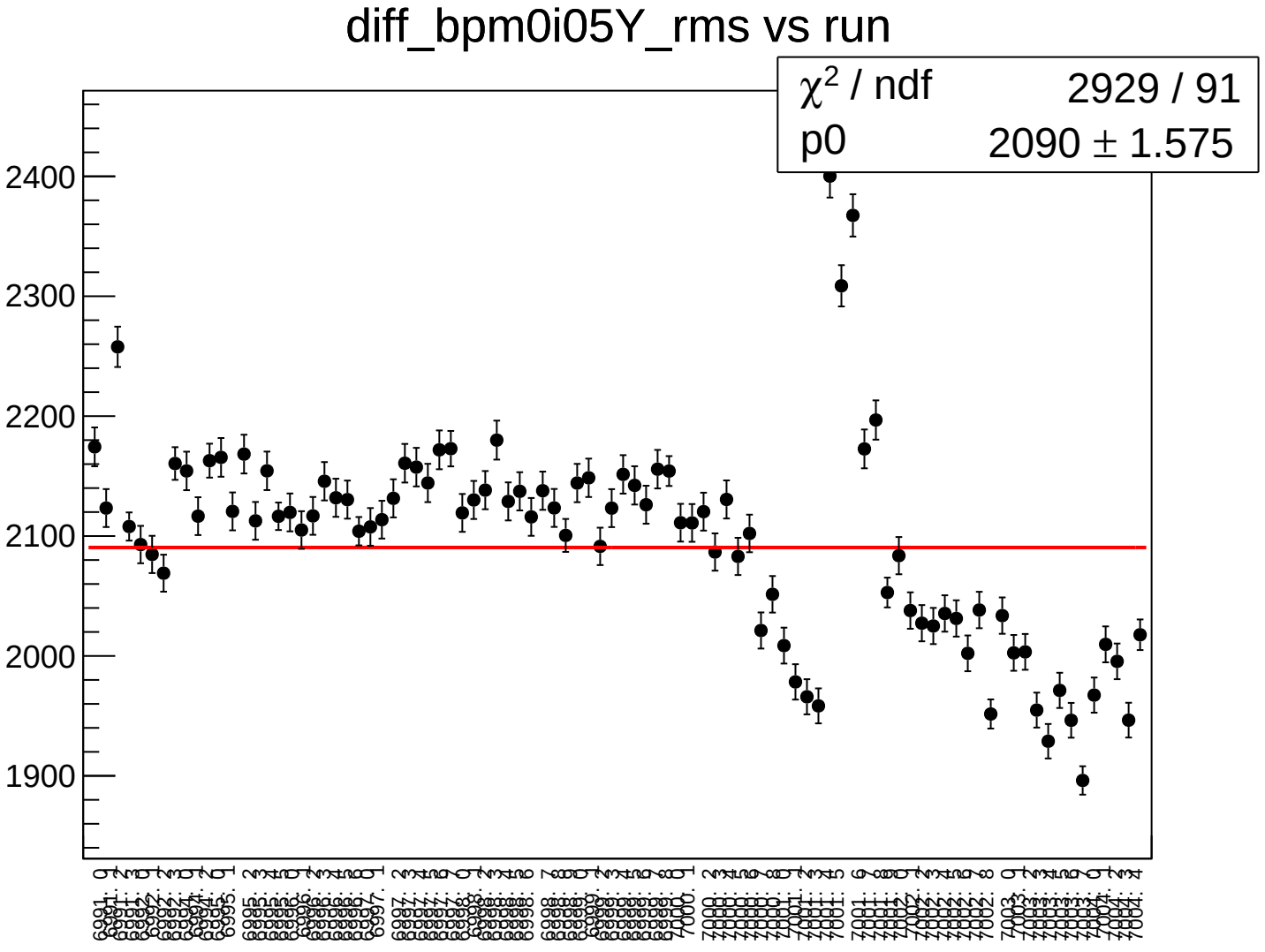

diff_bpm0i05X_mean vs run
χ² / ndf 138.4 / 91
p0 41.47 ± 2.902
200
150
100
50
0
−50
pull
Entries 92
Mean −327.4
Std Dev 0
3
2
1
0
−1
−2

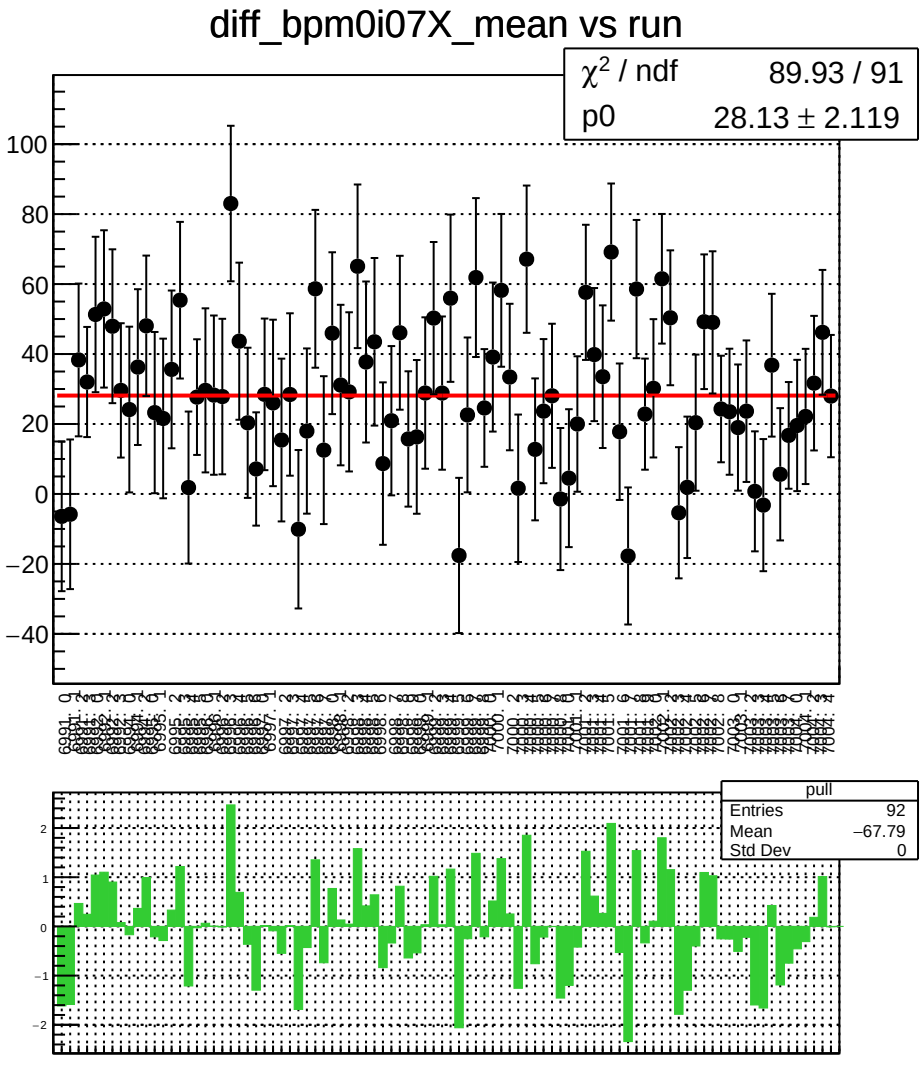

pull1D
Entries 92
Mean 0.04374
Std Dev 1.226
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

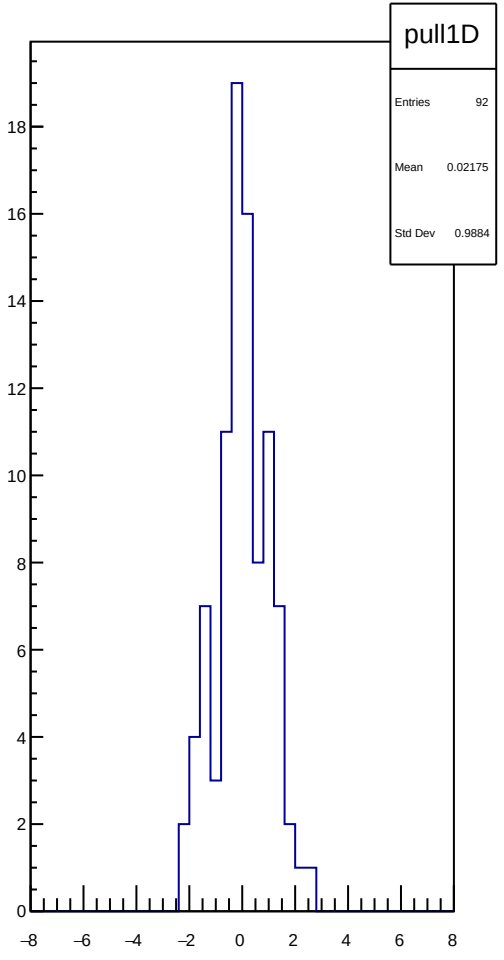

diff_bpm0i05X_rms vs run
χ² / ndf 2.176e+04 / 91
p0 2710 ± 2.052
3200
3000
2800
2600
2400
2200

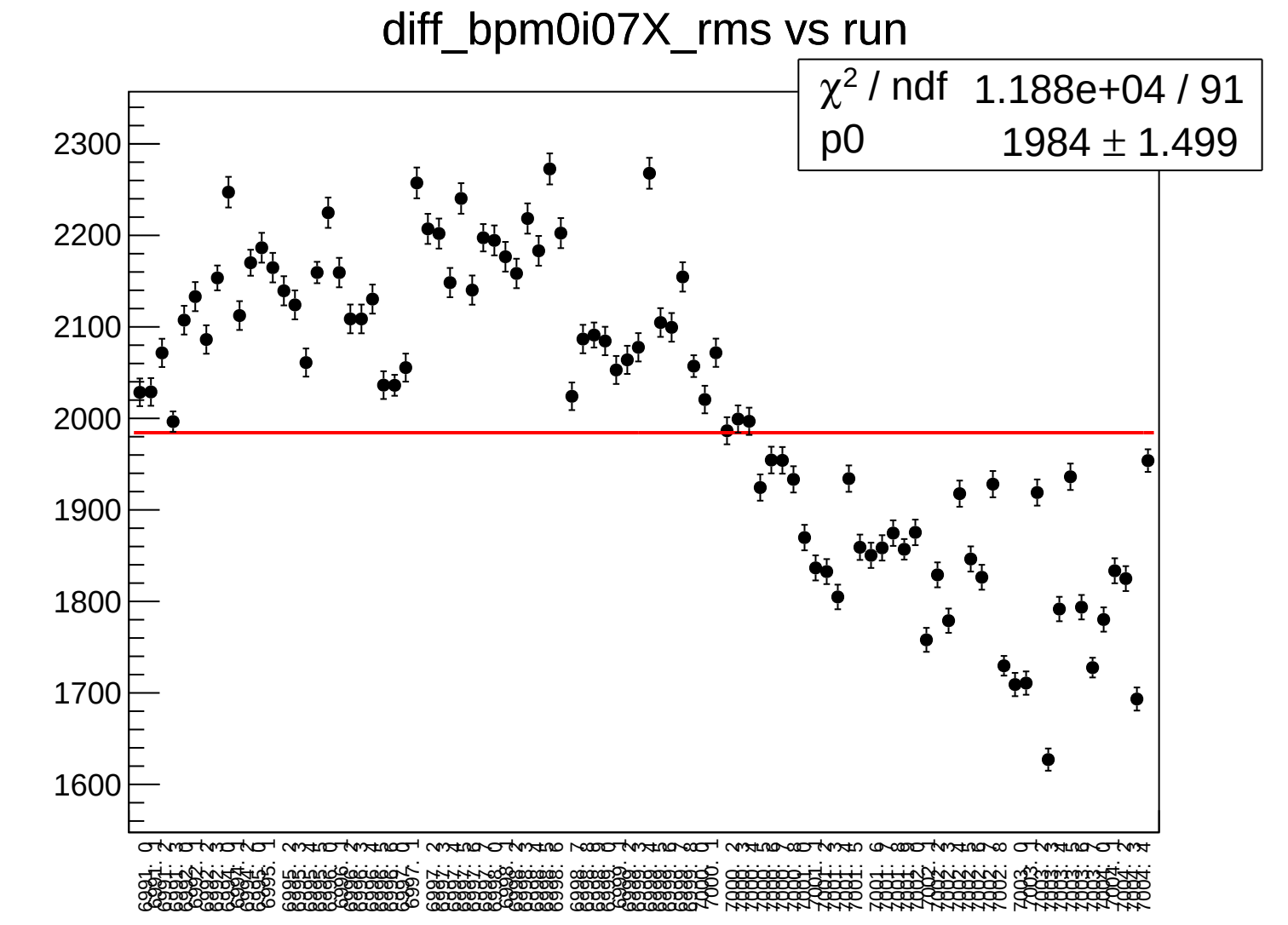

diff_bpm0i05Y_mean vs run
χ² / ndf 100.3 / 91
p0 −11.55 ± 2.227
pull
Entries 92
Mean −301.1
Std Dev 0

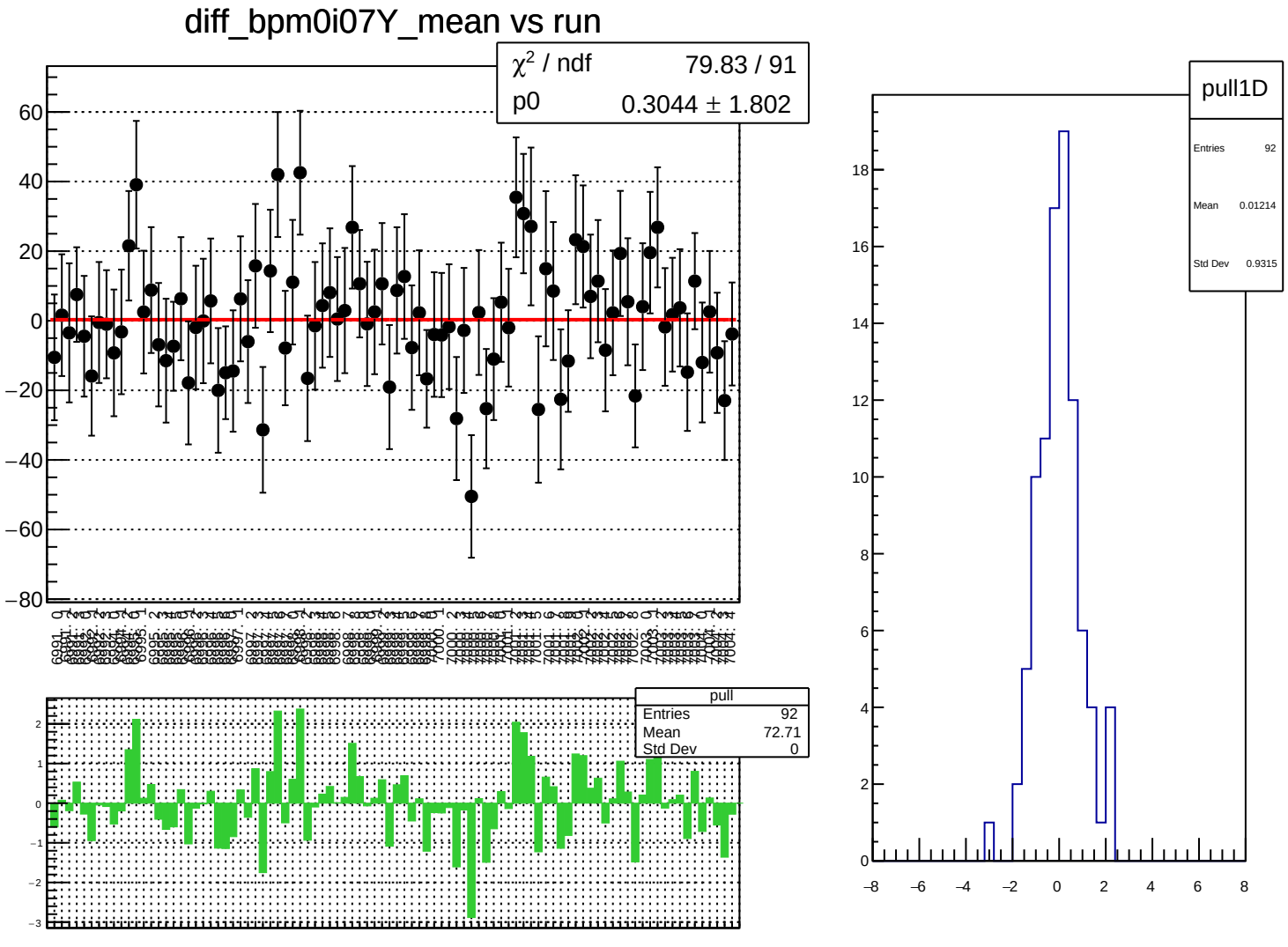

pull1D
Entries 92
Mean 0.006895
Std Dev 1.044

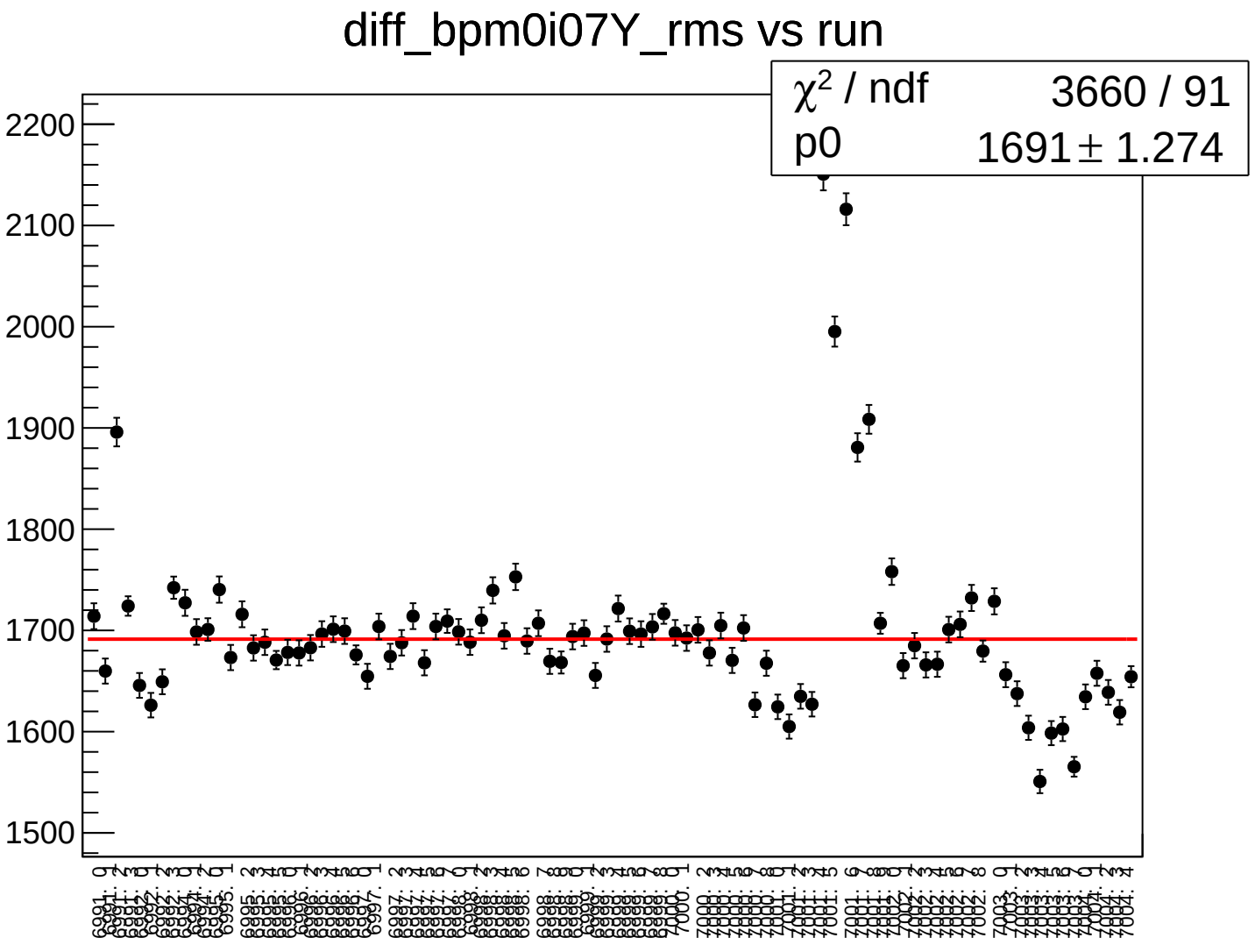

diff_bpm0i05Y_rms vs run
χ² / ndf 2929 / 91
p0 2090 ± 1.575
2400
2300
2200
2100
2000
1900

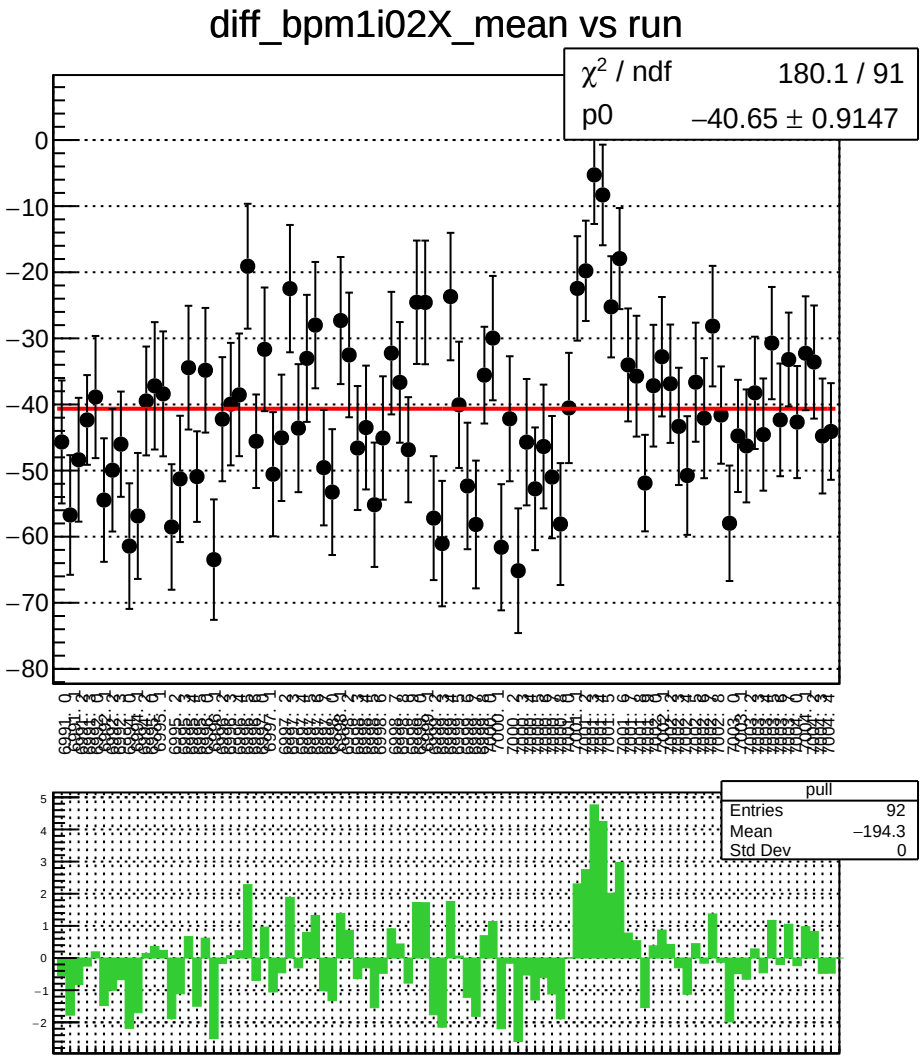

diff_bpm0i07X_mean vs run
χ² / ndf 89.93 / 91
p0 28.13 ± 2.119
pull
Entries 92
Mean −67.79
Std Dev 0

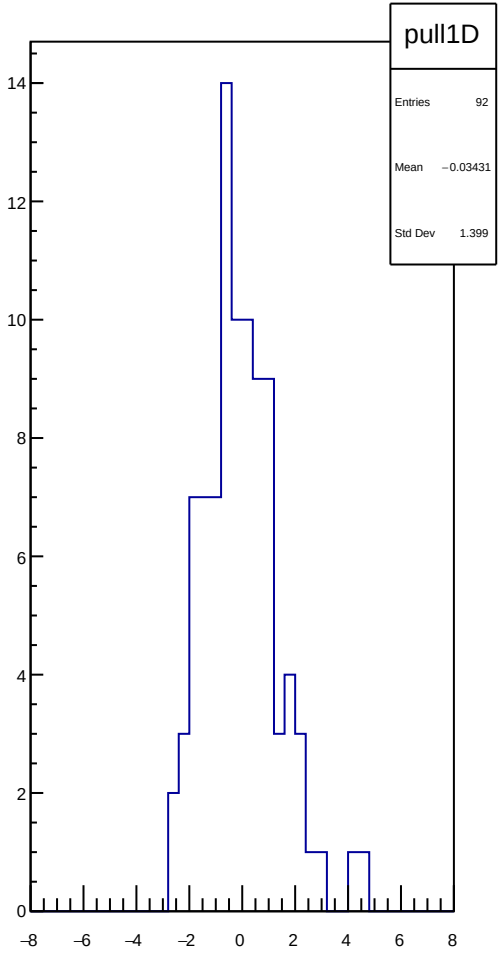

pull1D
Entries 92
Mean 0.02175
Std Dev 0.9884

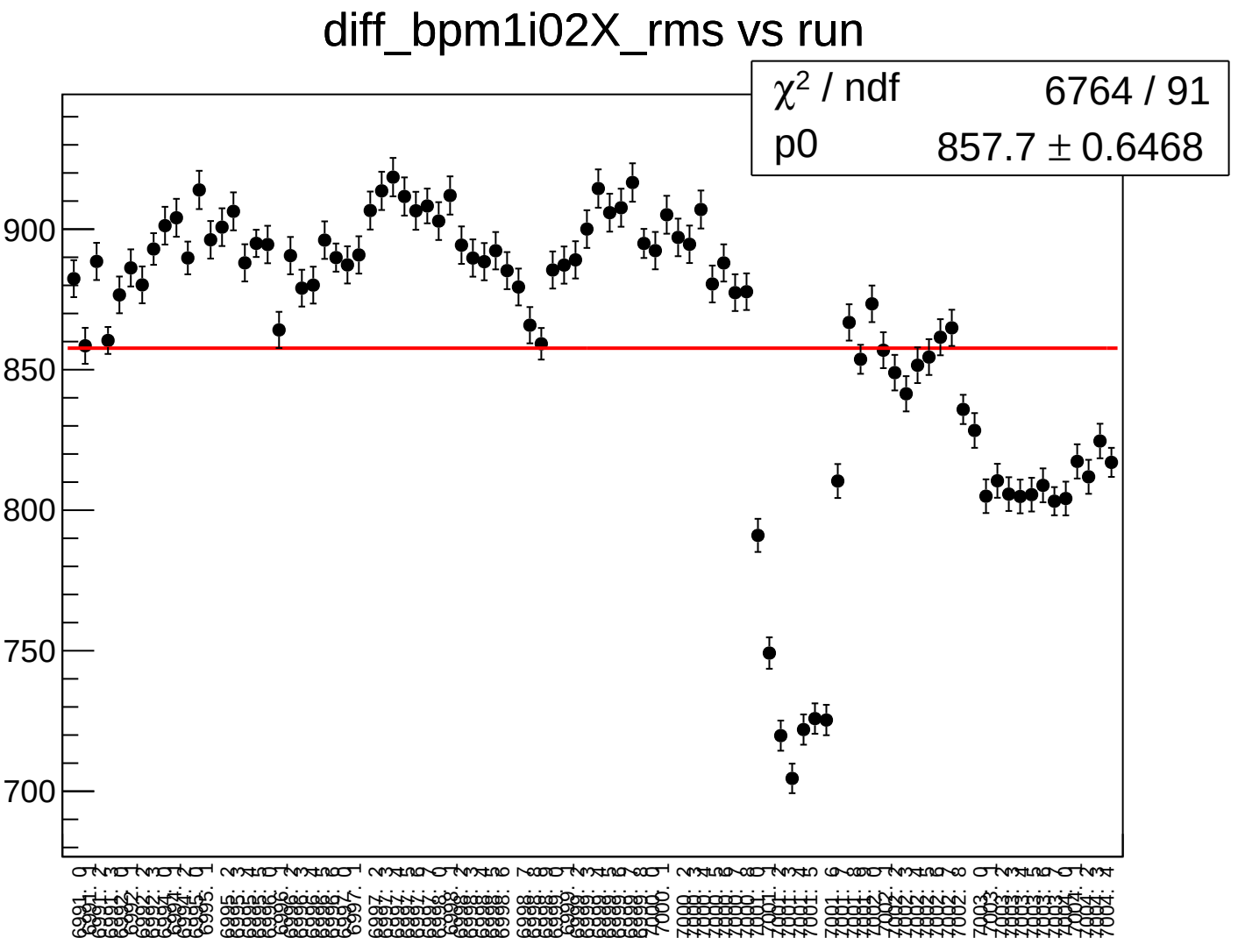

diff_bpm0i07X_rms vs run
χ² / ndf 1.188e+04 / 91
p0 1984 ± 1.499
2300
2200
2100
2000
1900
1800
1700
1600

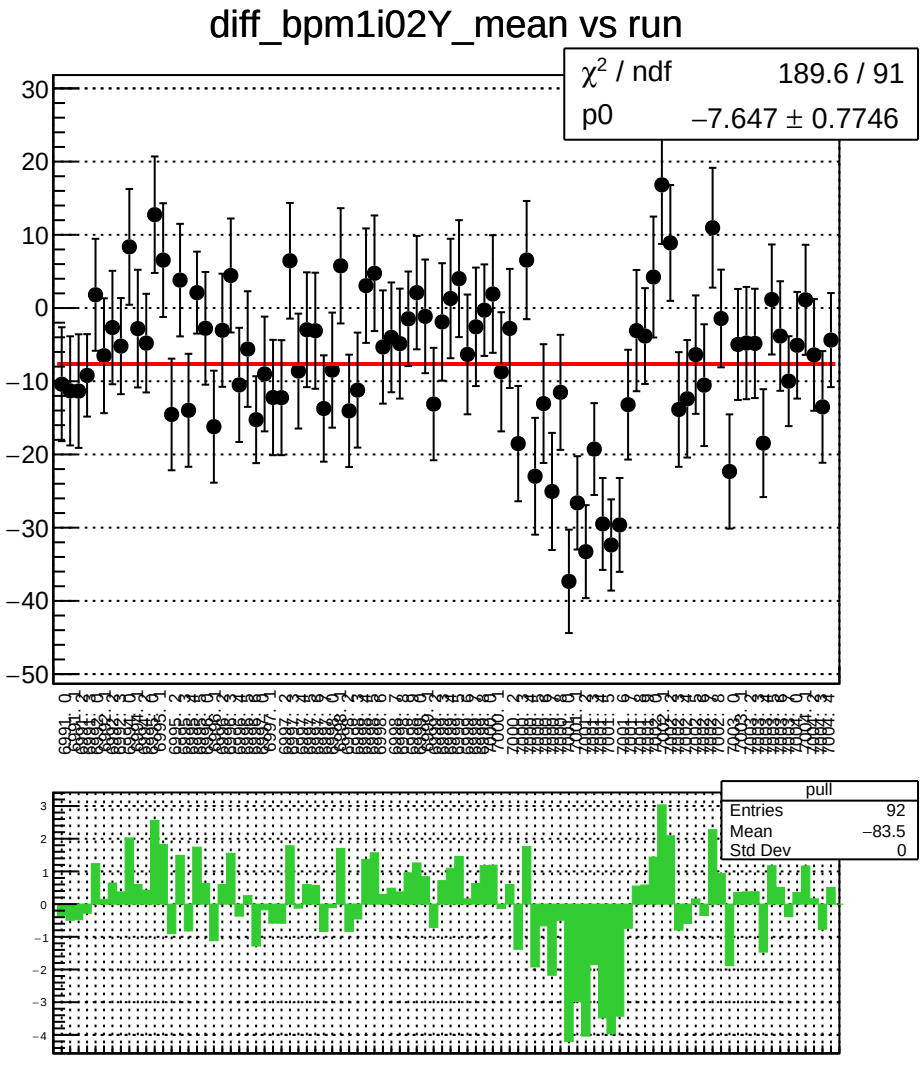

diff_bpm0i07Y_mean vs run
χ² / ndf 79.83 / 91
p0 0.3044 ± 1.802
pull
Entries 92
Mean 72.71
Std Dev 0
pull1D
Entries 92
Mean 0.01214
Std Dev 0.9315

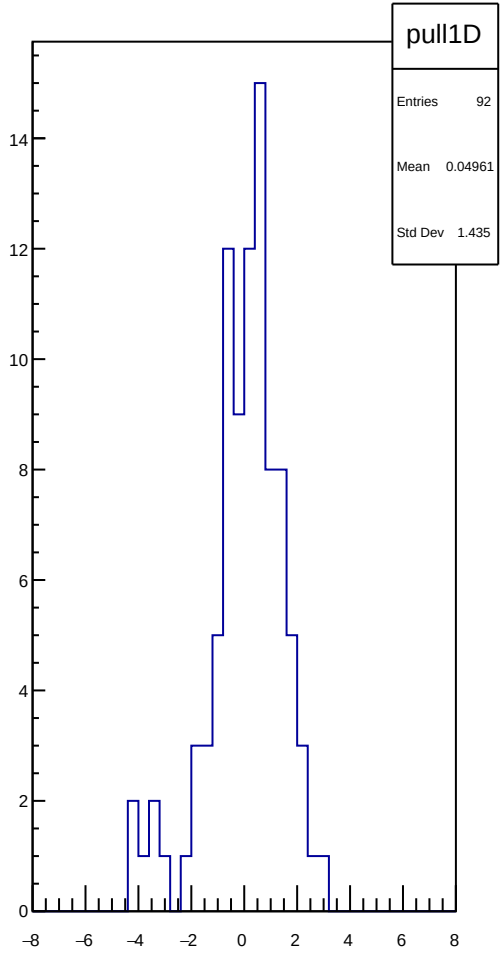

diff_bpm0i07Y_rms vs run
χ² / ndf 3660 / 91
p0 1691 ± 1.274
2200
2100
2000
1900
1800
1700
1600
1500

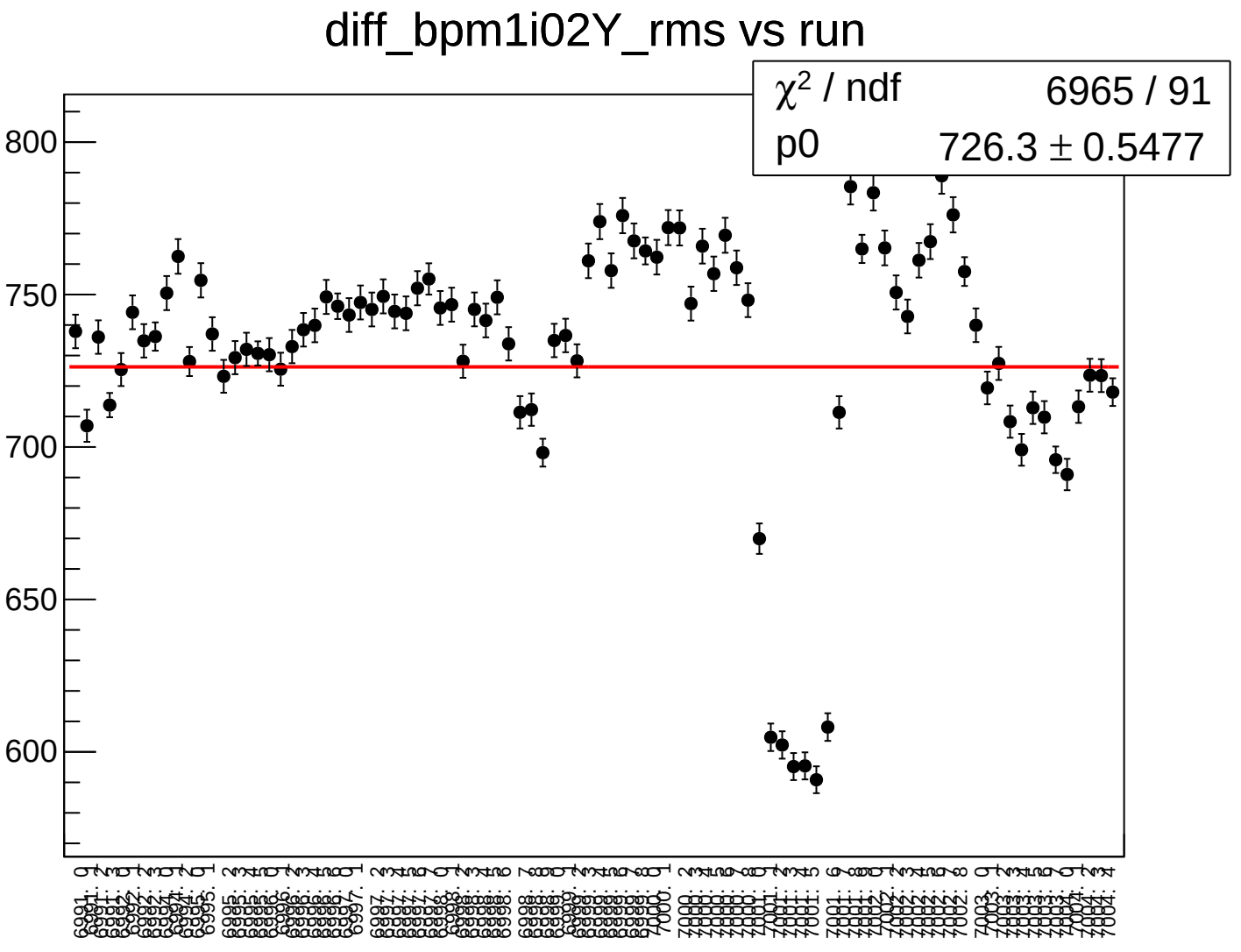

diff_bpm1i02X_mean vs run
χ² / ndf 180.1 / 91
p0 −40.65 ± 0.9147
pull
Entries 92
Mean −194.3
Std Dev 0

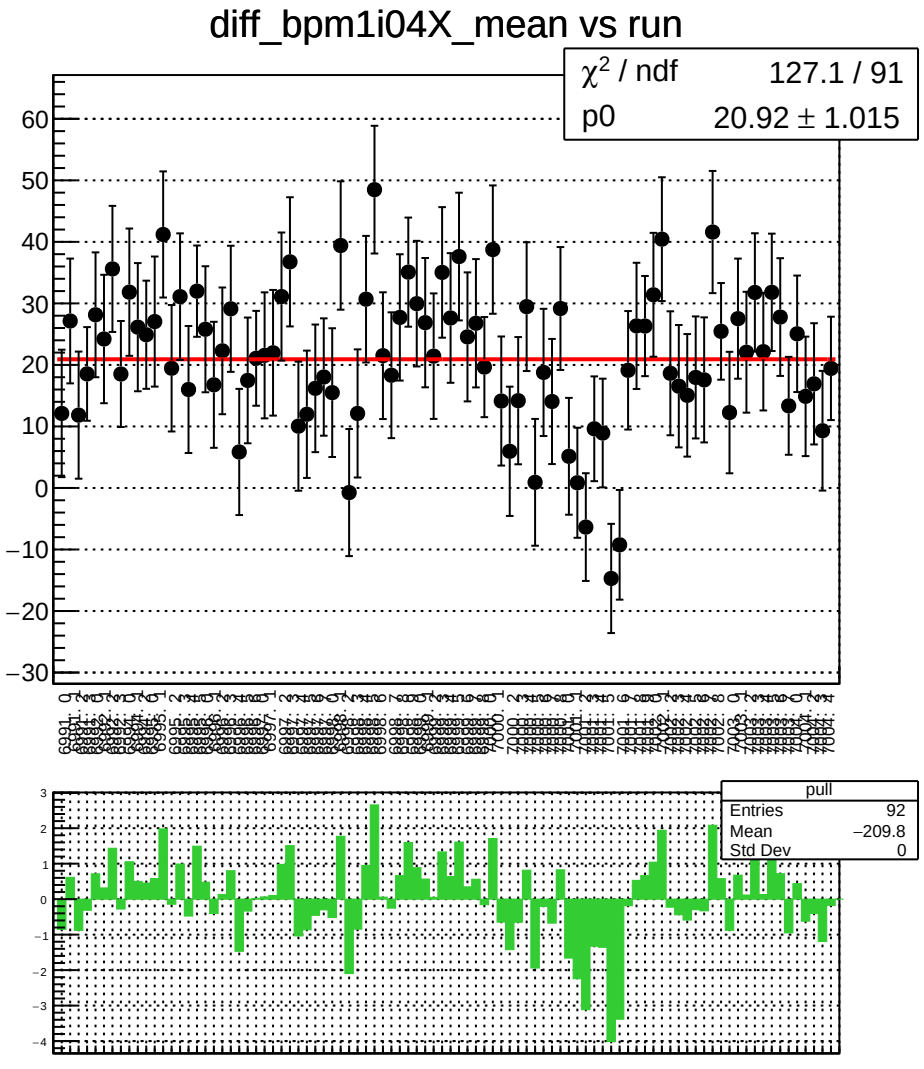

pull1D
Entries 92
Mean −0.03431
Std Dev 1.399

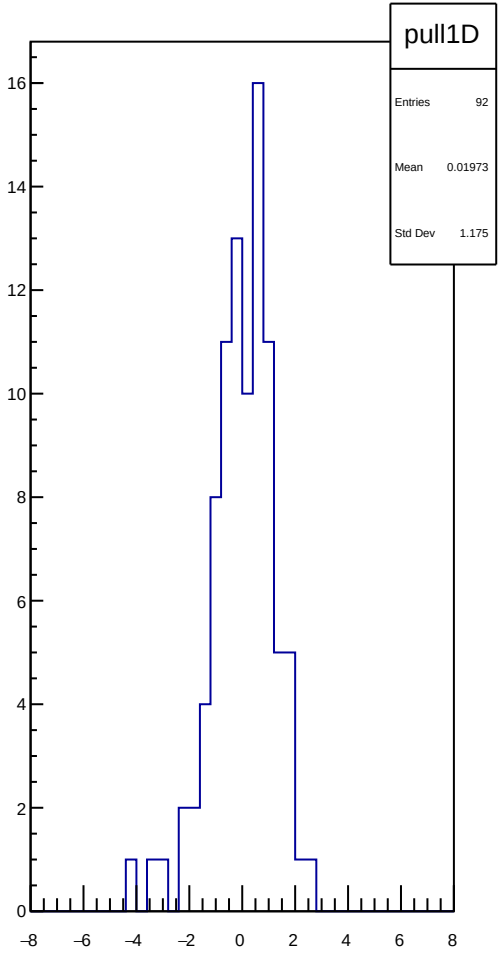

diff_bpm1i02X_rms vs run
χ² / ndf 6764 / 91
p0 857.7 ± 0.6468
900
850
800
750
700

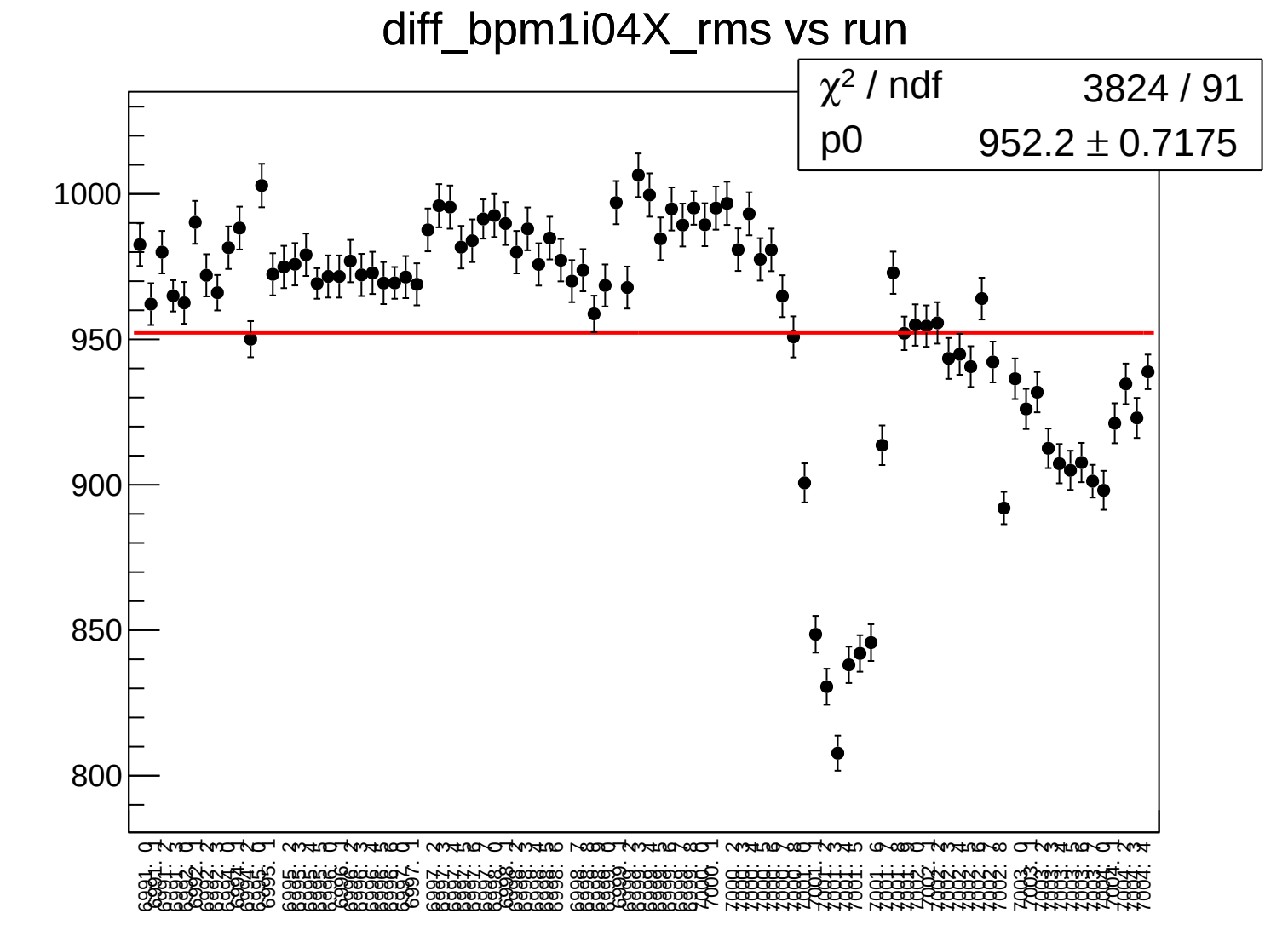

diff_bpm1i02Y_mean vs run
χ² / ndf 189.6 / 91
p0 −7.647 ± 0.7746
pull
Entries 92
Mean −83.5
Std Dev 0

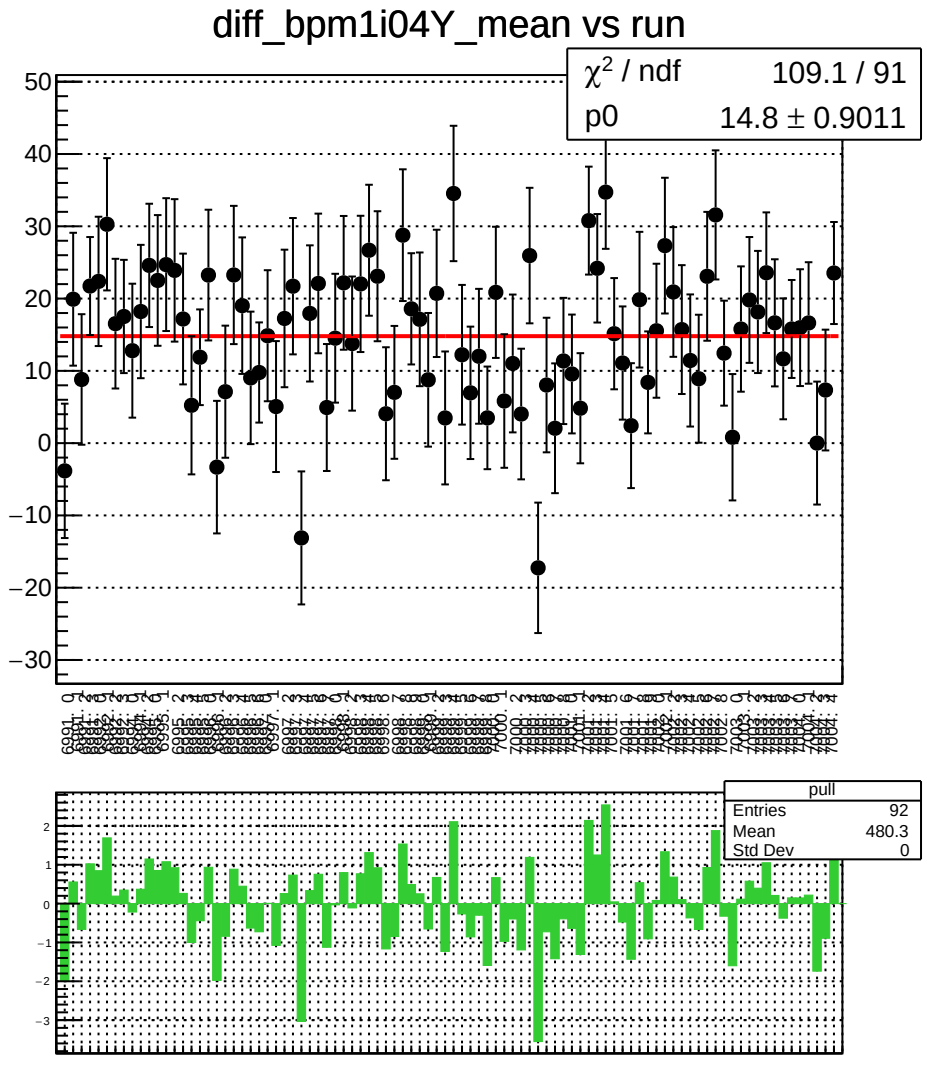

pull1D
Entries 92
Mean 0.04961
Std Dev 1.435

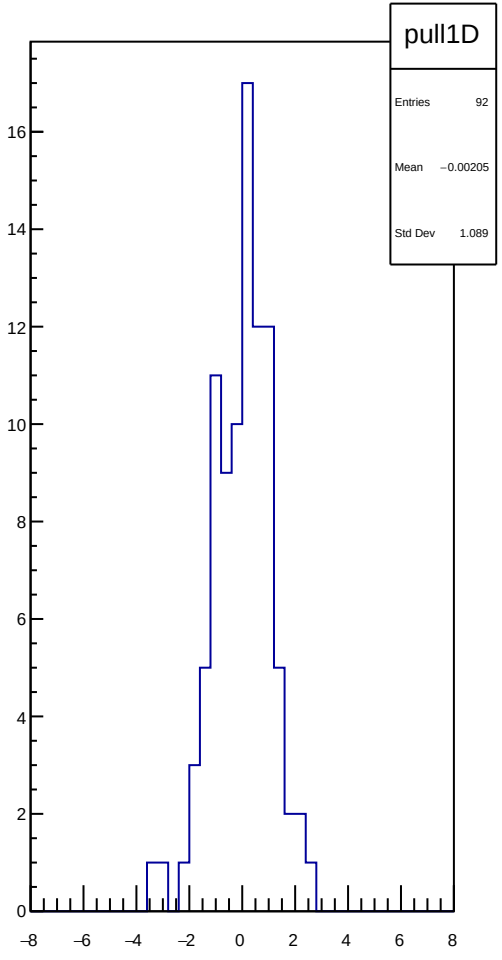

diff_bpm1i02Y_rms vs run
χ² / ndf 6965 / 91
p0 726.3 ± 0.5477
800
750
700
650
600

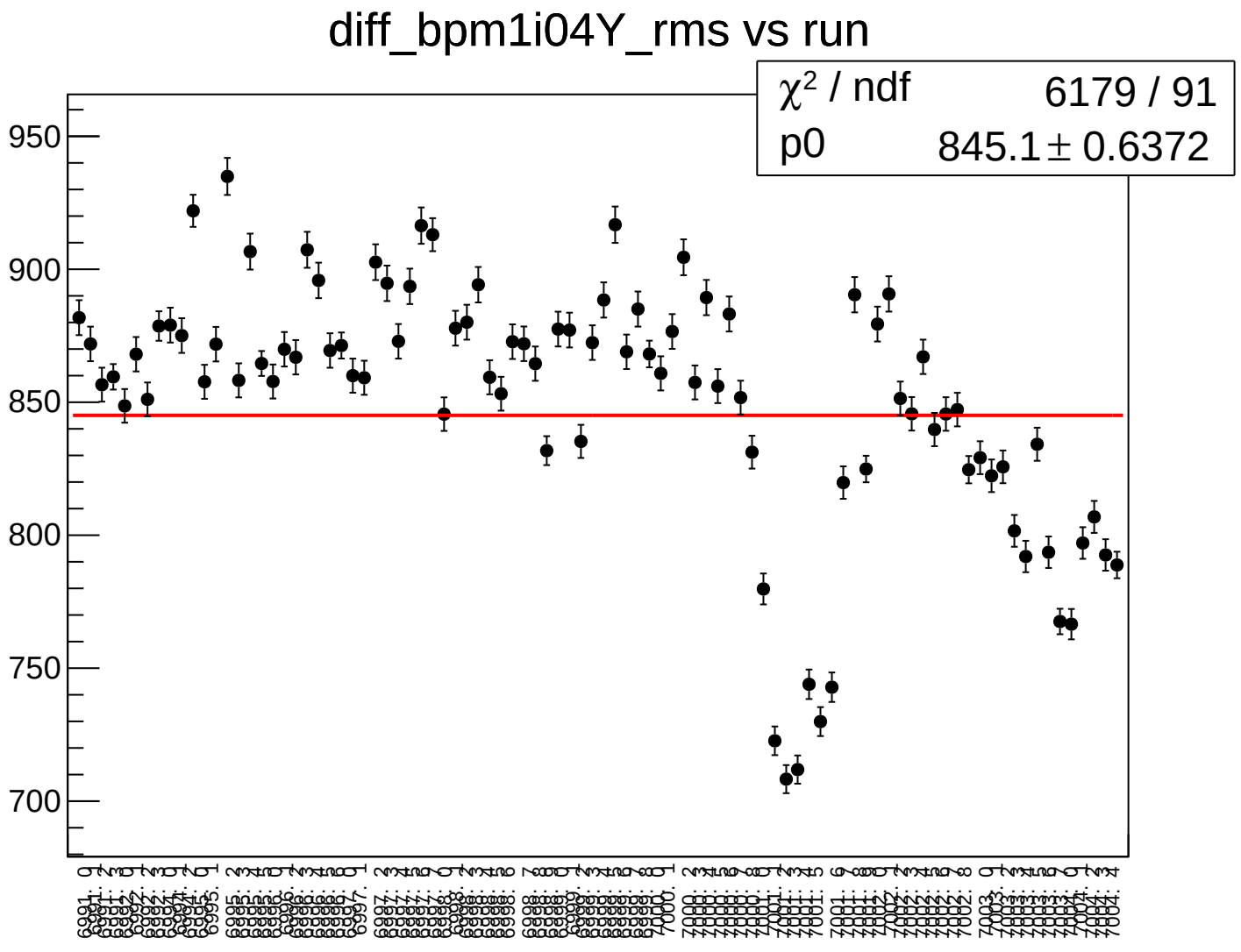

diff_bpm1i04X_mean vs run
χ^2 / ndf 127.1 / 91
p0 20.92 ± 1.015
pull
Entries 92
Mean −209.8
Std Dev 0

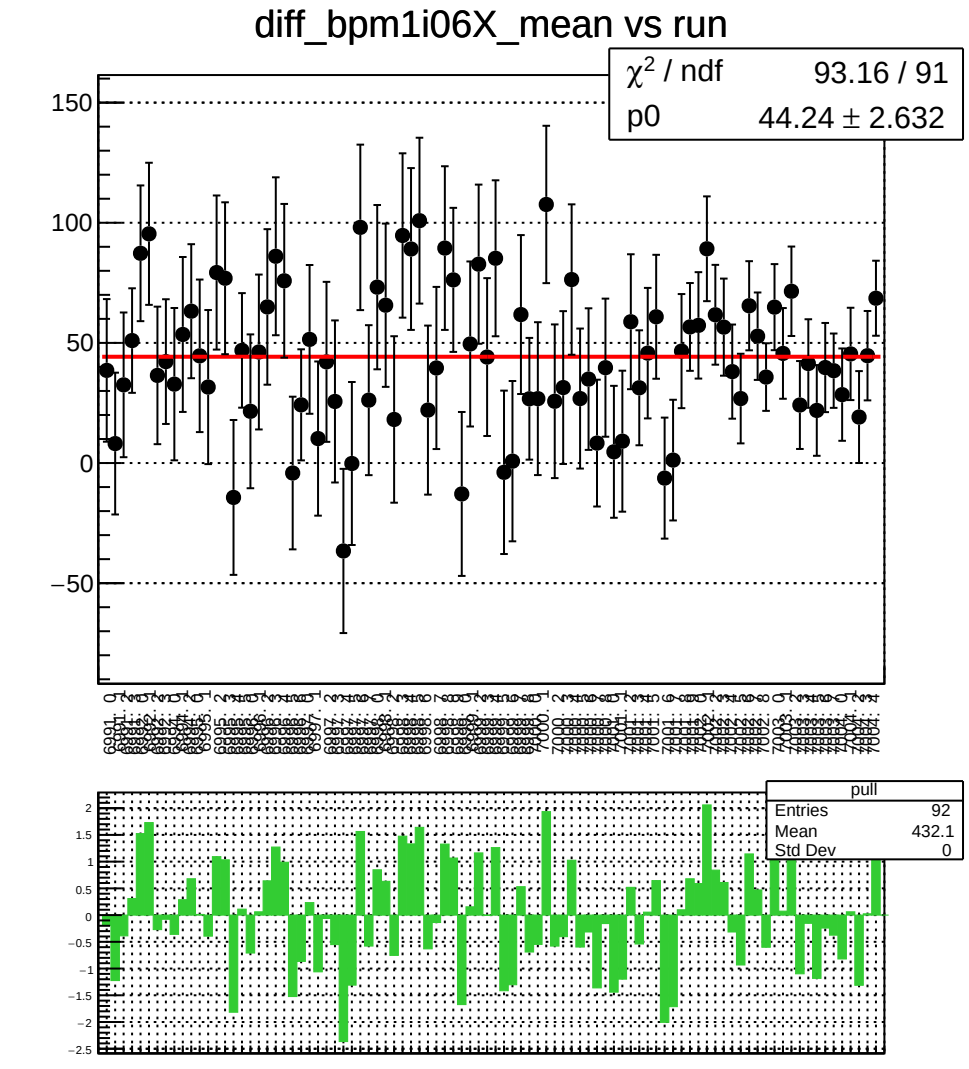

pull1D
Entries 92
Mean 0.01973
Std Dev 1.175

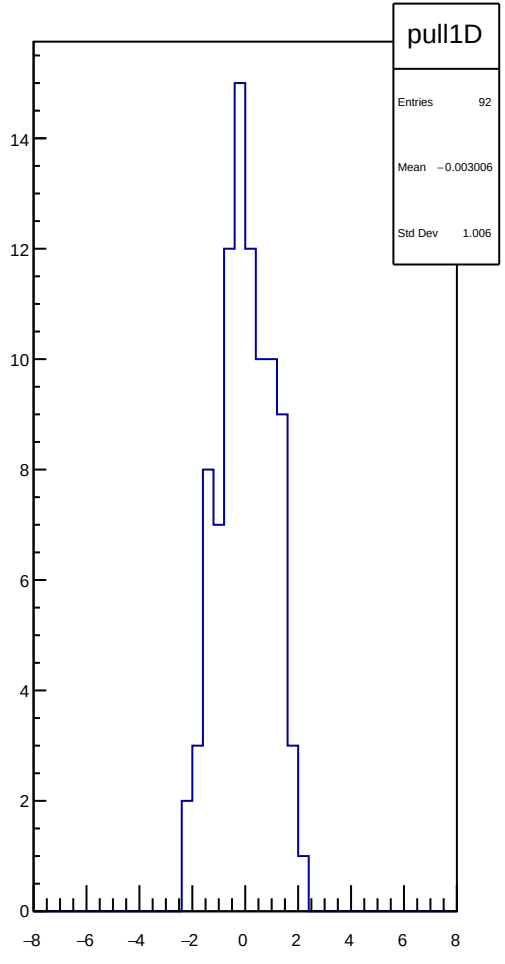

diff_bpm1i04X_rms vs run
χ² / ndf 3824 / 91
p0 952.2 ± 0.7175
1000
950
900
850
800

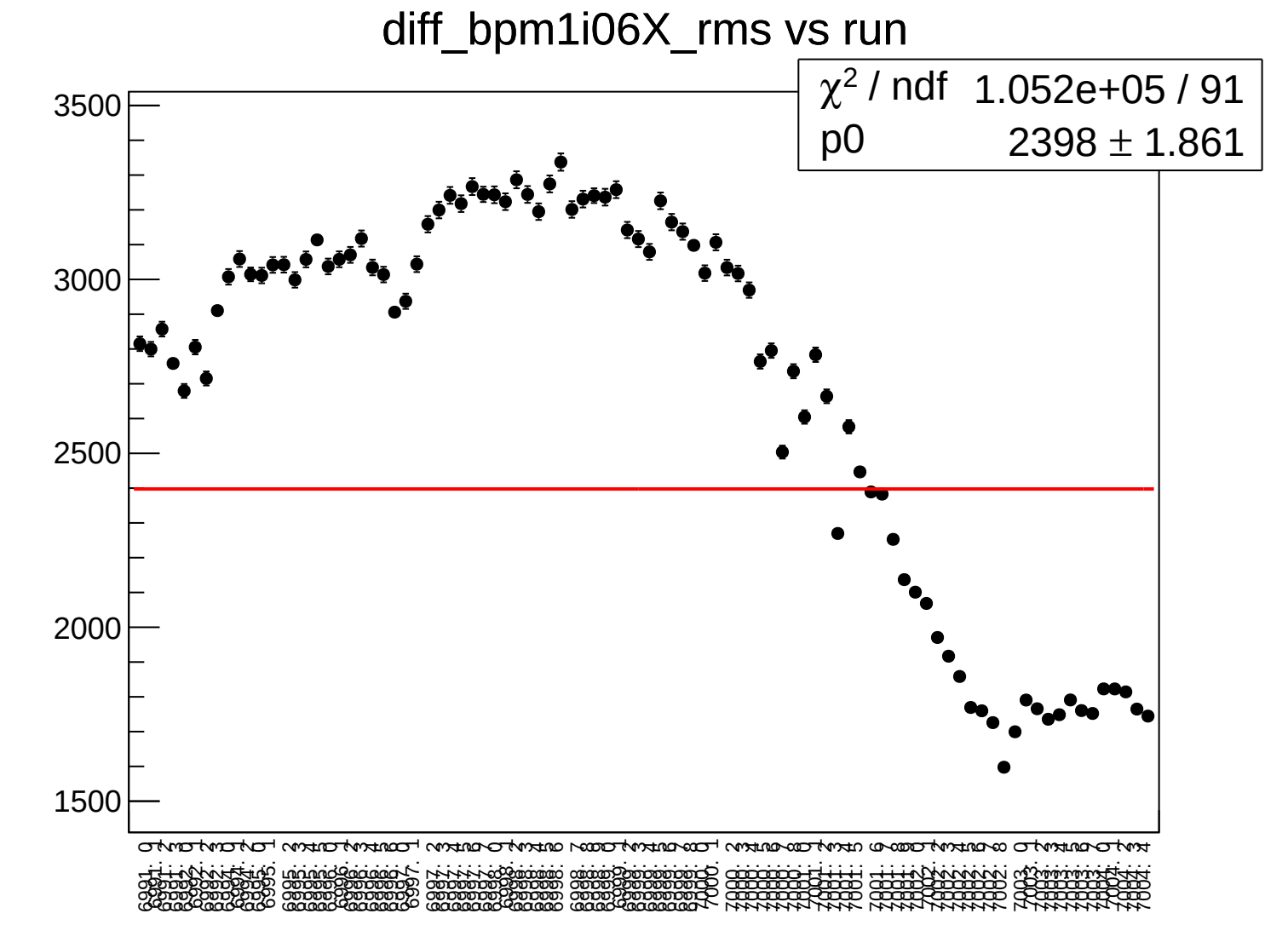

diff_bpm1i04Y_mean vs run
χ^2 / ndf 109.1 / 91
p0 14.8 ± 0.9011
pull
Entries 92
Mean 480.3
Std Dev 0

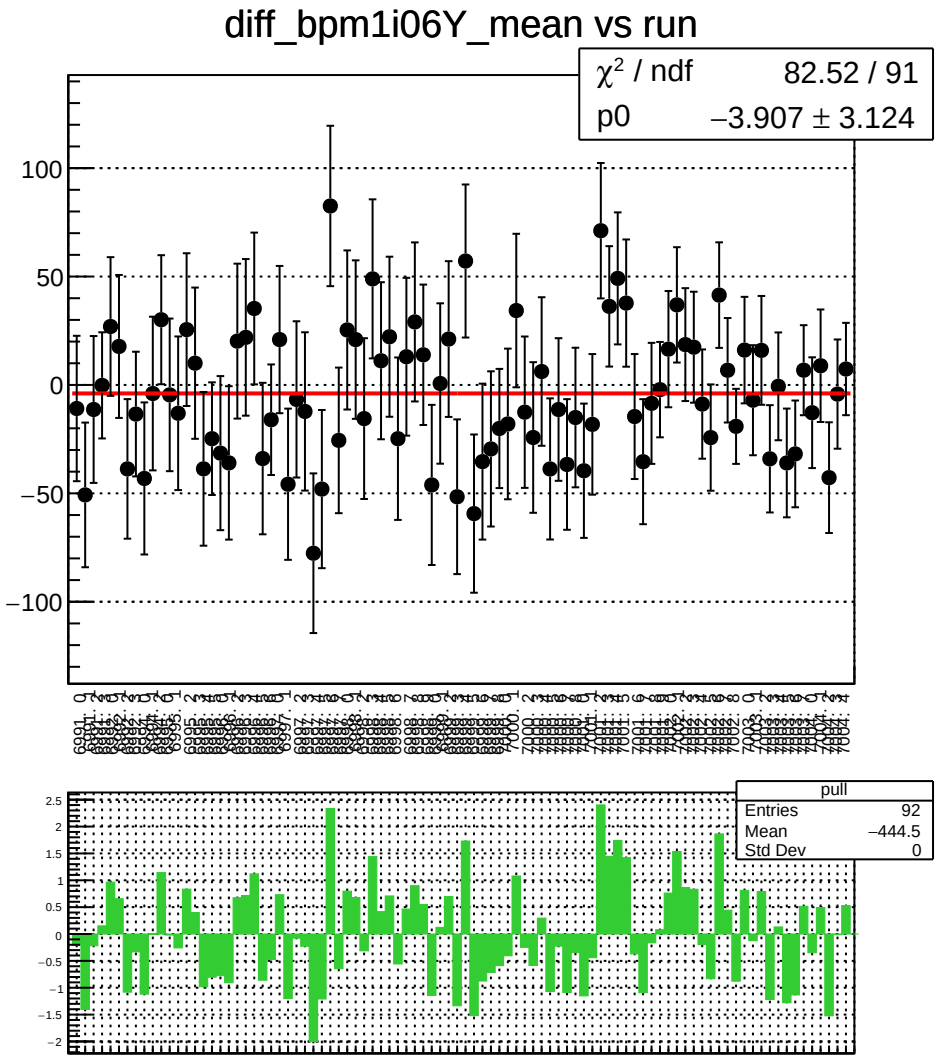

pull1D
Entries 92
Mean −0.00205
Std Dev 1.089

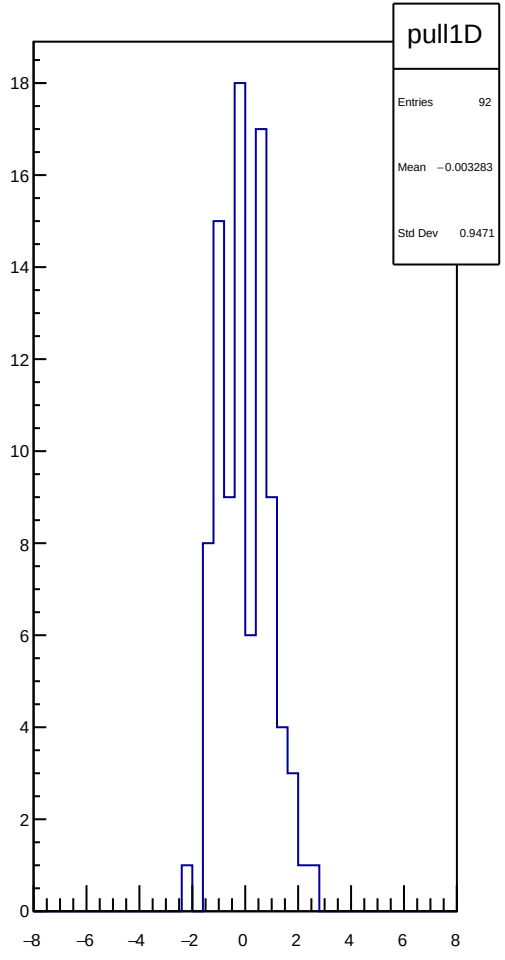

diff_bpm1i04Y_rms vs run
χ² / ndf 6179 / 91
p0 845.1 ± 0.6372
950
900
850
800
750
700

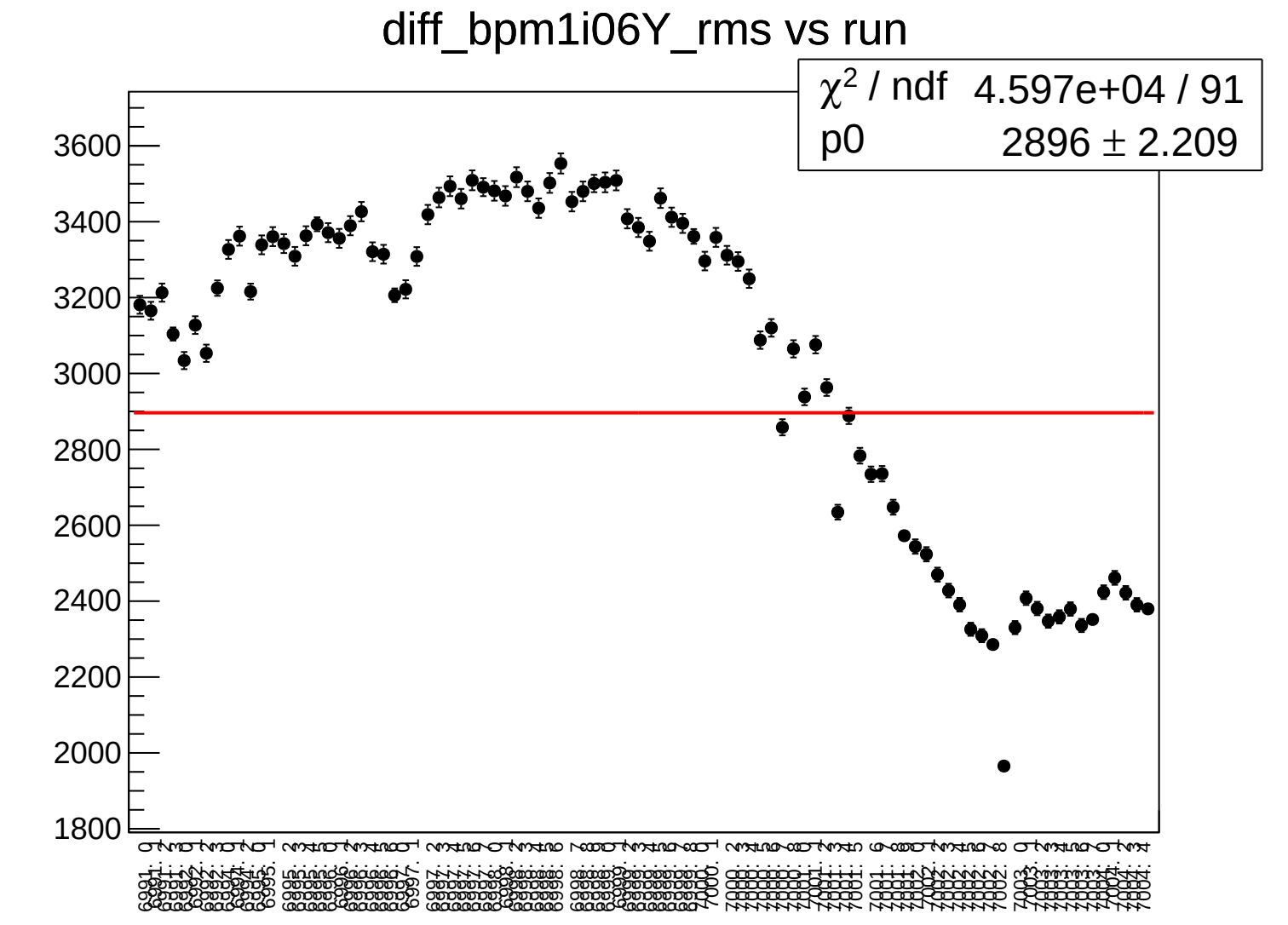

diff_bpm1i06X_mean vs run
χ^2 / ndf 93.16 / 91
p0 44.24 ± 2.632
150
100
50
0
−50
pull
Entries 92
Mean 432.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

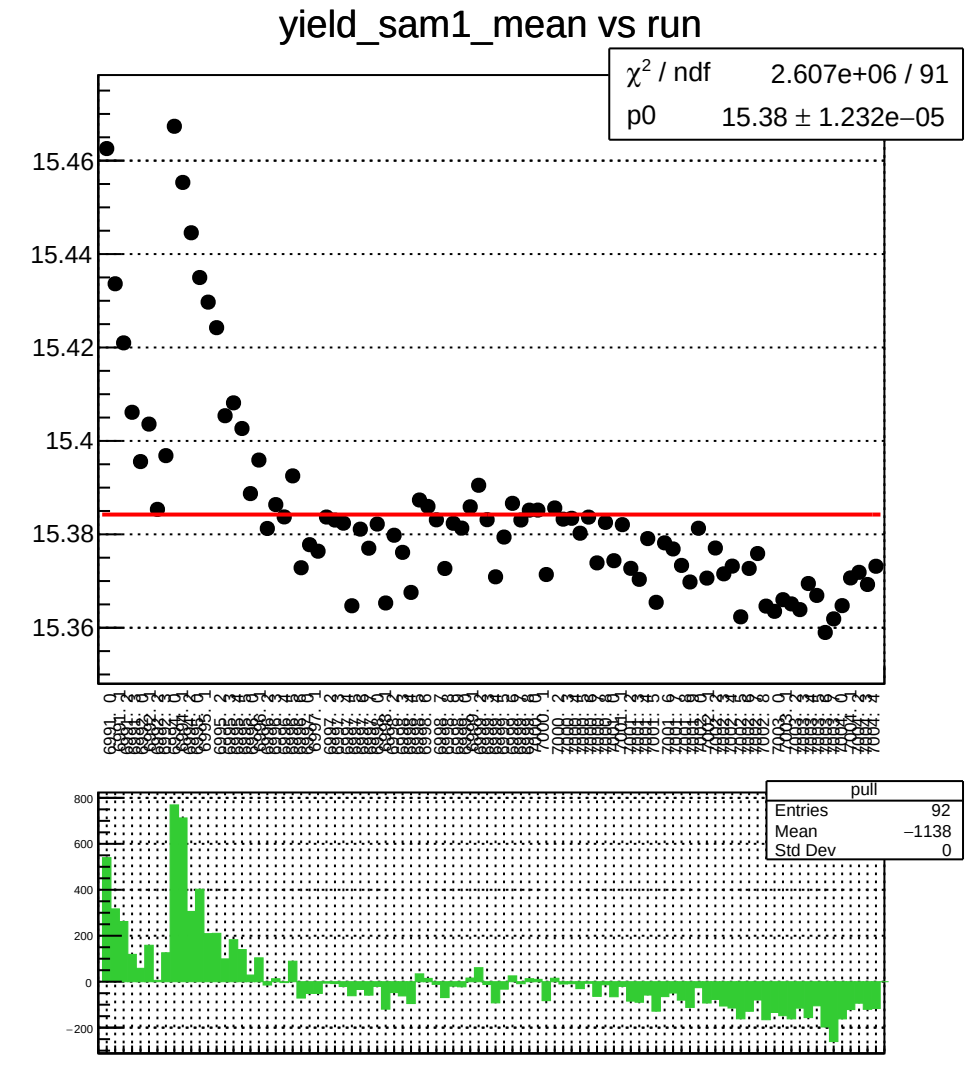

pull1D
Entries 92
Mean −0.003006
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

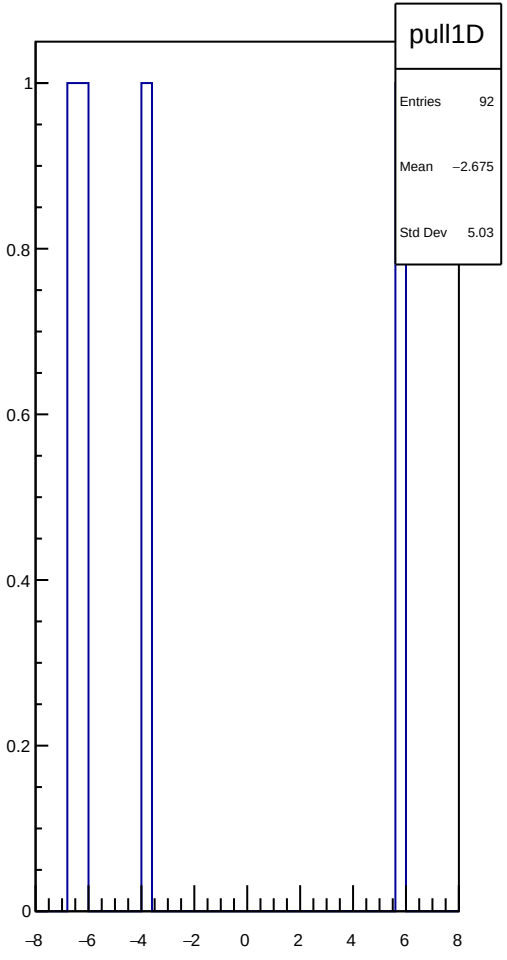

diff_bpm1i06X_rms vs run
χ² / ndf 1.052e+05 / 91
p0 2398 ± 1.861
3500
3000
2500
2000
1500

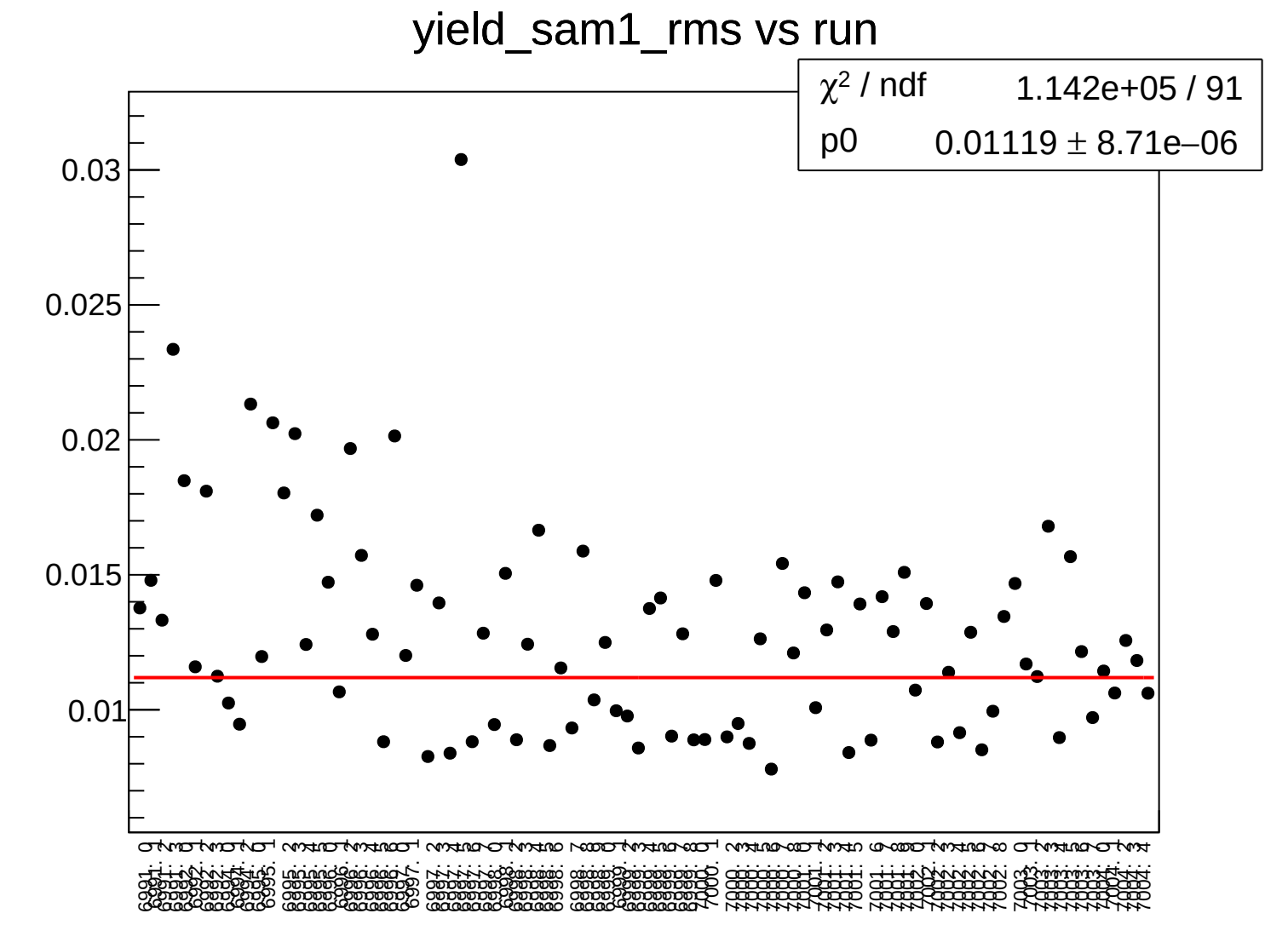

diff_bpm1i06Y_mean vs run
χ² / ndf 82.52 / 91
p0 −3.907 ± 3.124
100
50
0
−50
−100
pull
Entries 92
Mean −444.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

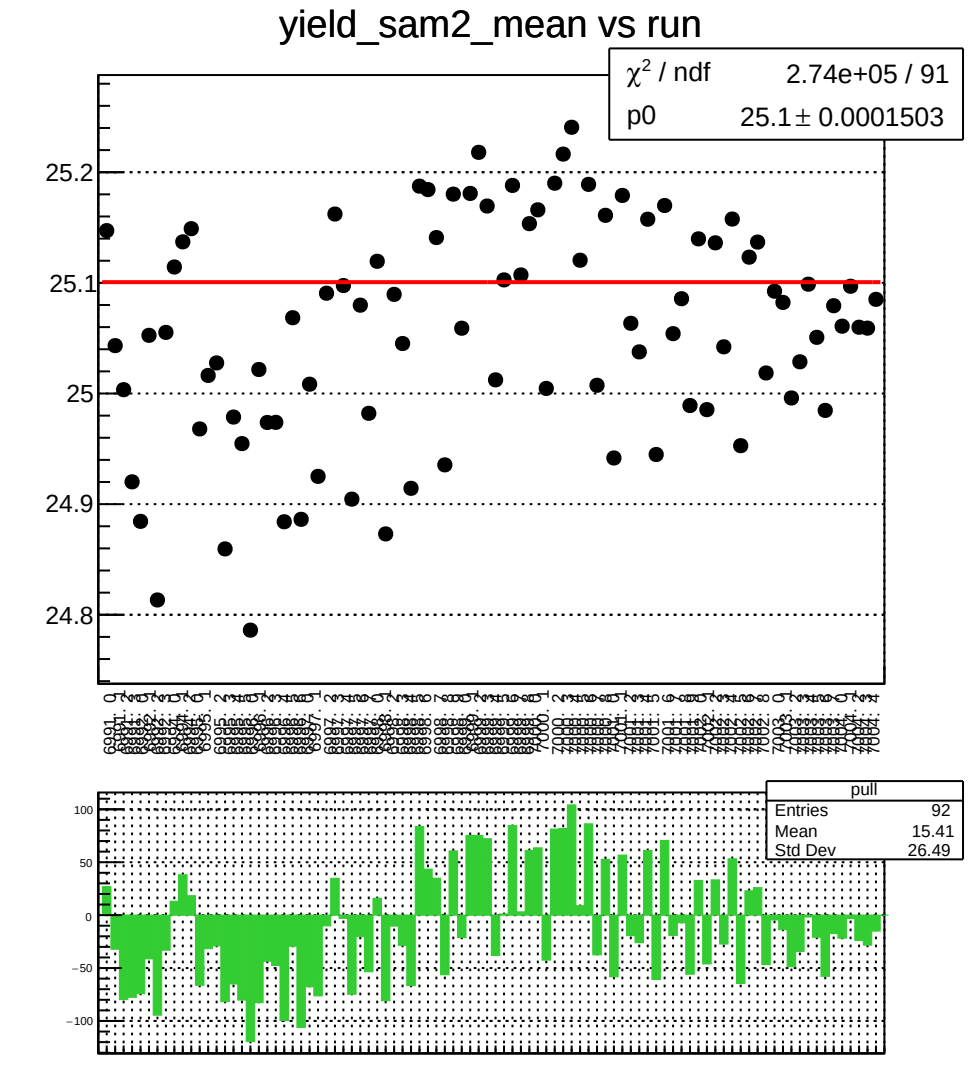

pull1D
Entries 92
Mean −0.003283
Std Dev 0.9471
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

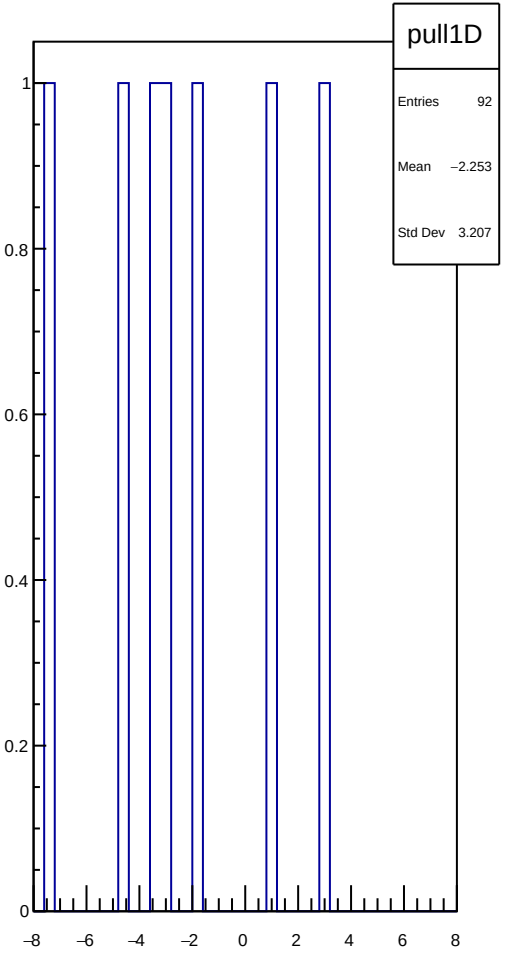

diff_bpm1i06Y_rms vs run
χ² / ndf 4.597e+04 / 91
p0 2896 ± 2.209
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800

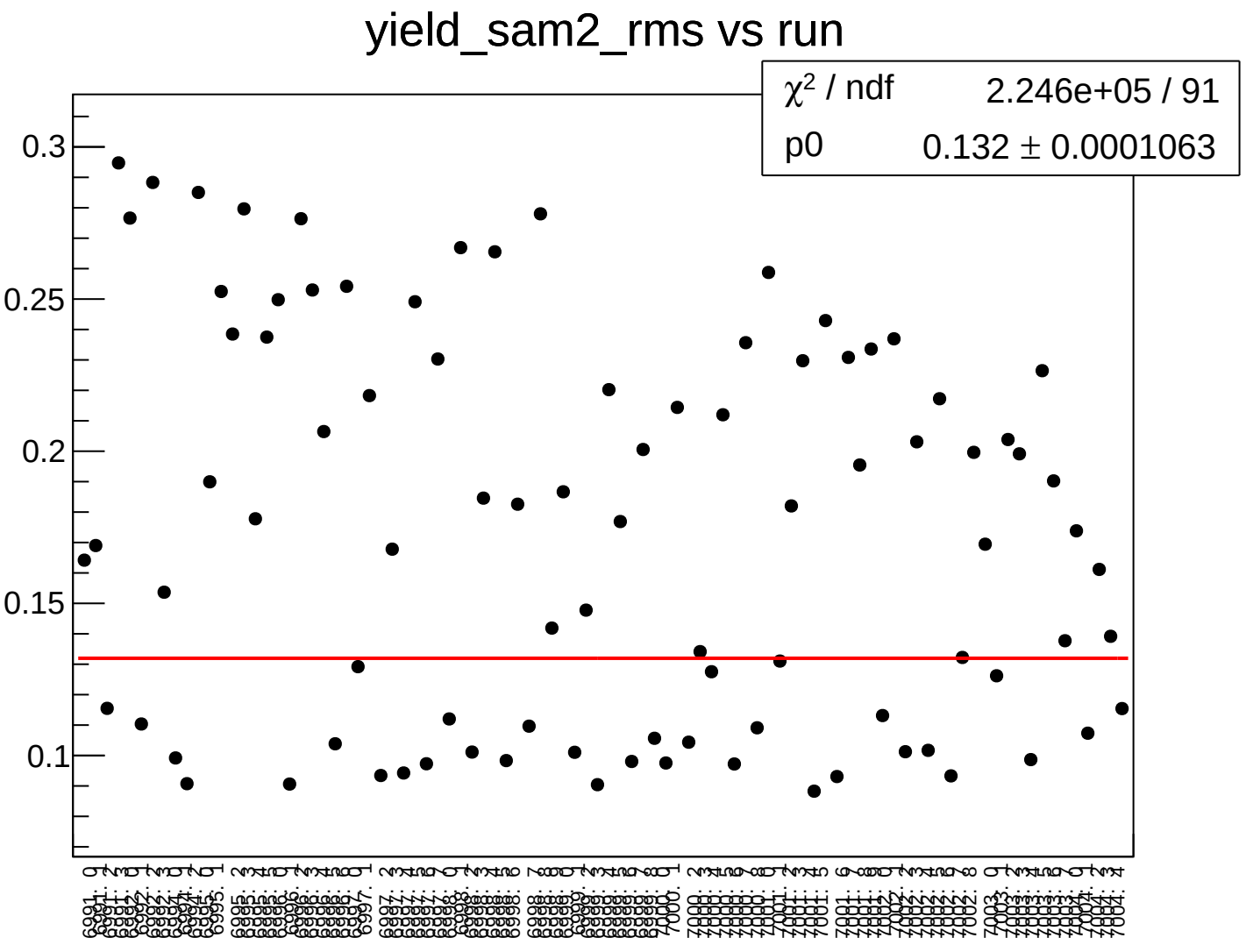

yield_sam1_mean vs run
χ² / ndf 2.607e+06 / 91
p0 15.38 ± 1.232e−05
15.46
15.44
15.42
15.4
15.38
15.36
pull
Entries 92
Mean −1138
Std Dev 0
800
600
400
200
0
−200

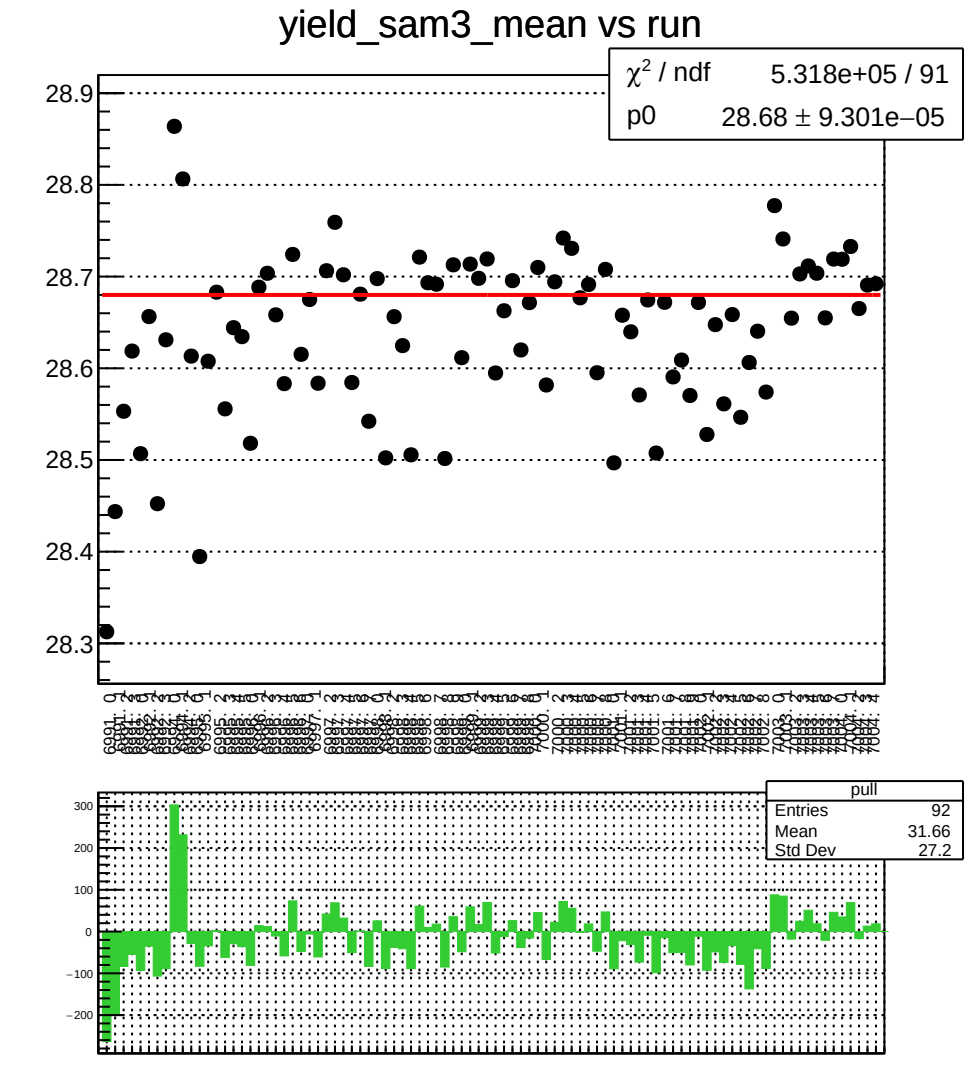

pull1D
Entries 92
Mean −2.675
Std Dev 5.03
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

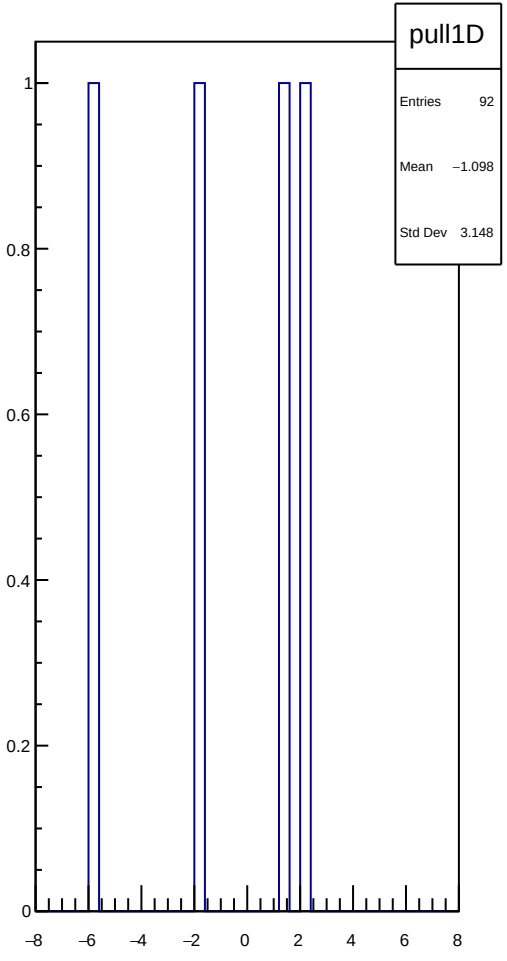

yield_sam1_rms vs run
χ² / ndf 1.142e+05 / 91
p0 0.01119 ± 8.71e−06
0.03
0.025
0.02
0.015
0.01

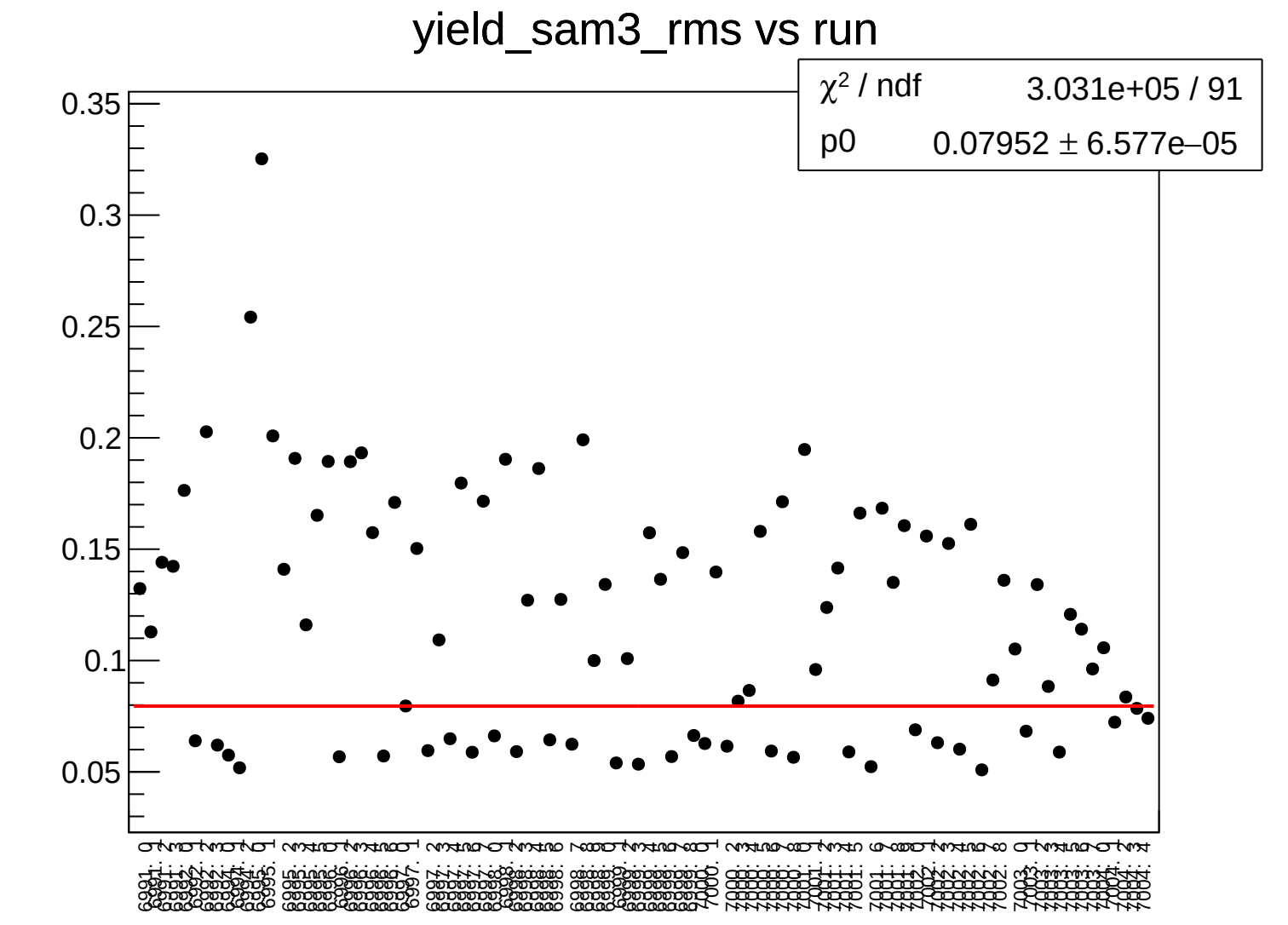

yield_sam2_mean vs run
χ² / ndf 2.74e+05 / 91
p0 25.1 ± 0.0001503
25.2
25.1
25
24.9
24.8
pull
Entries 92
Mean 15.41
Std Dev 26.49
100
50
0
−50
−100

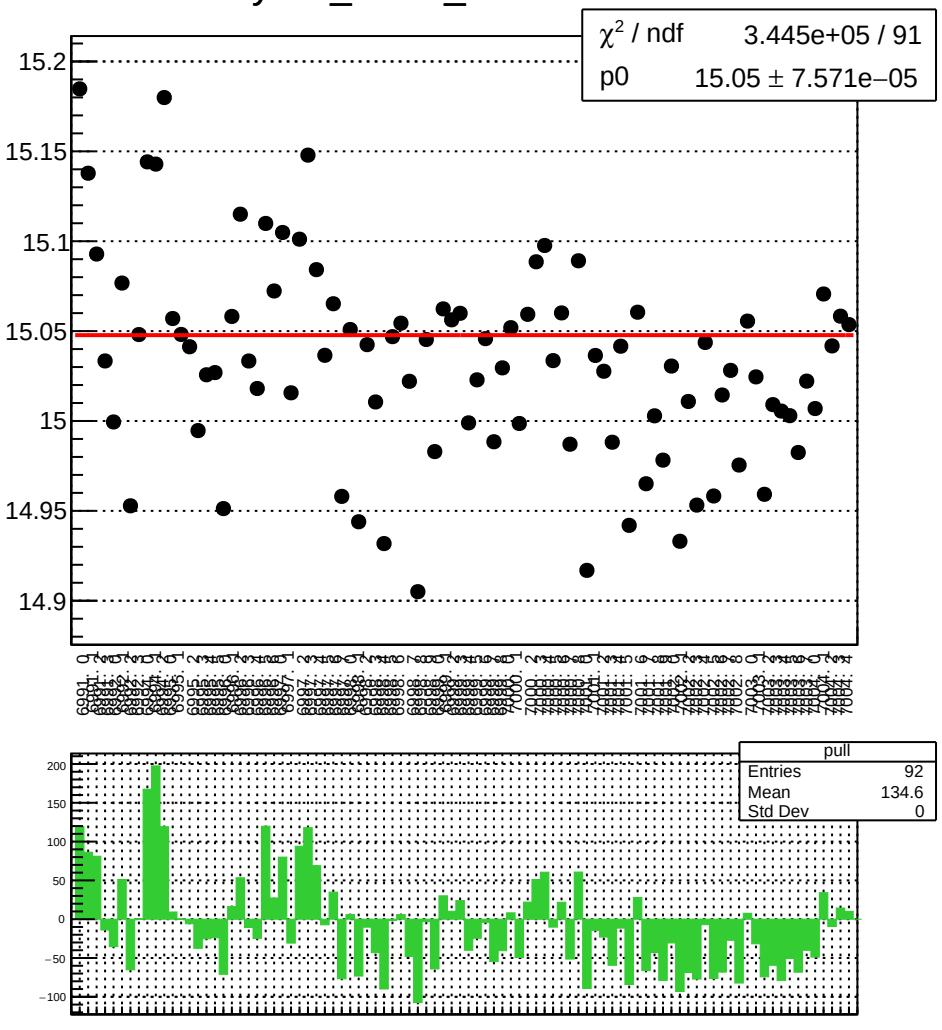

pull1D
Entries 92
Mean −2.253
Std Dev 3.207
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

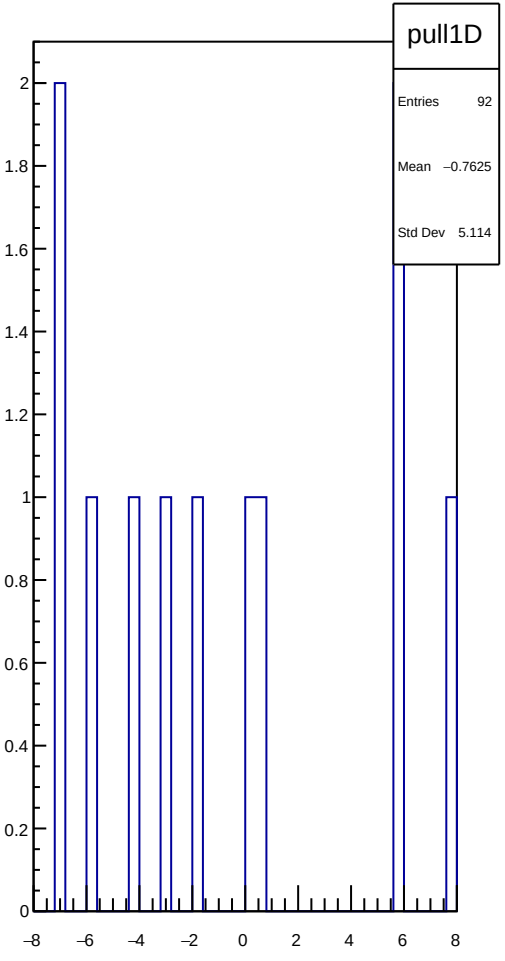

yield_sam2_rms vs run
χ² / ndf 2.246e+05 / 91
p0 0.132 ± 0.0001063
0.3
0.25
0.2
0.15
0.1

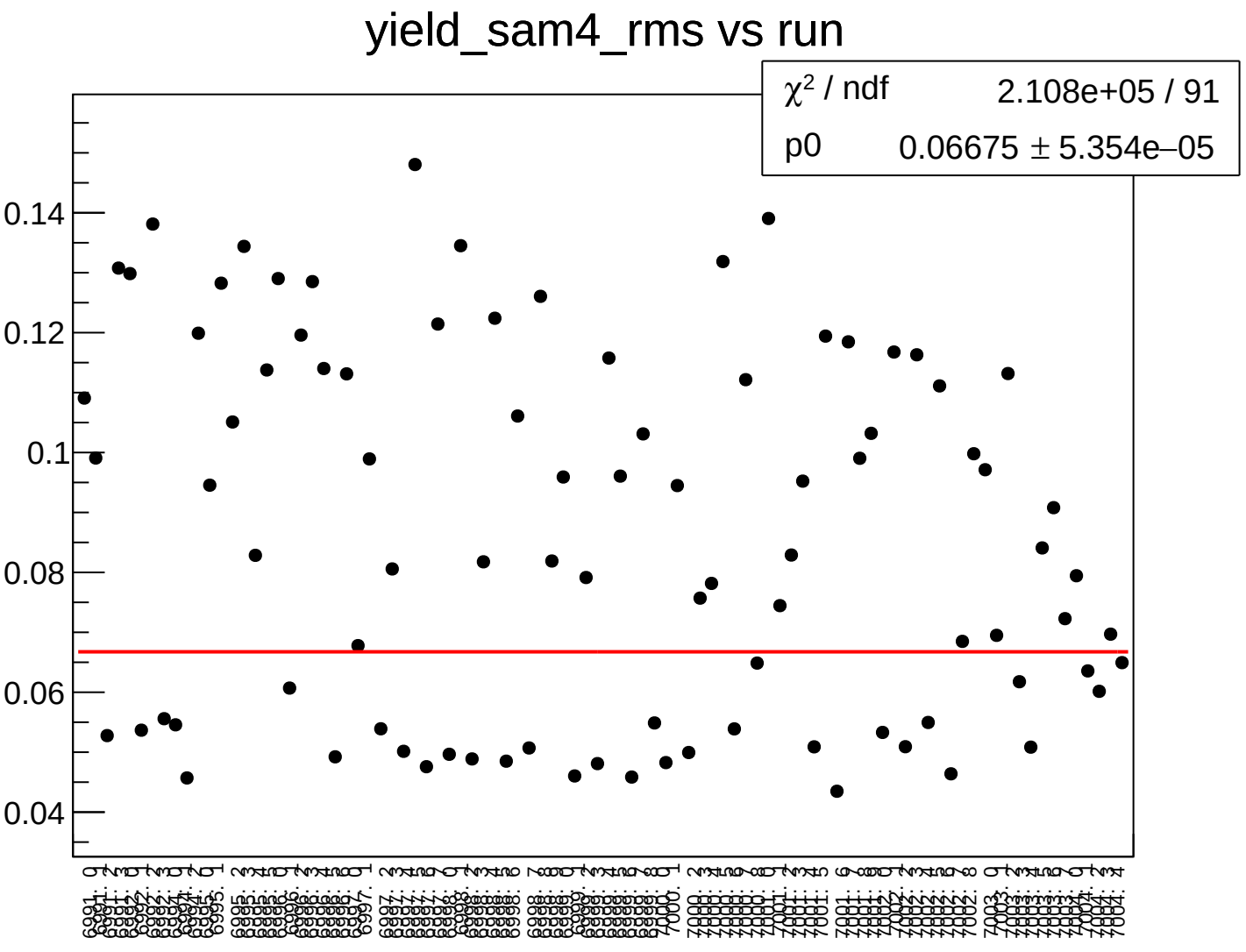

yield_sam3_mean vs run
χ² / ndf 5.318e+05 / 91
p0 28.68 ± 9.301e−05
28.9
28.8
28.7
28.6
28.5
28.4
28.3
pull
Entries 92
Mean 31.66
Std Dev 27.2
300
200
100
0
−100
−200

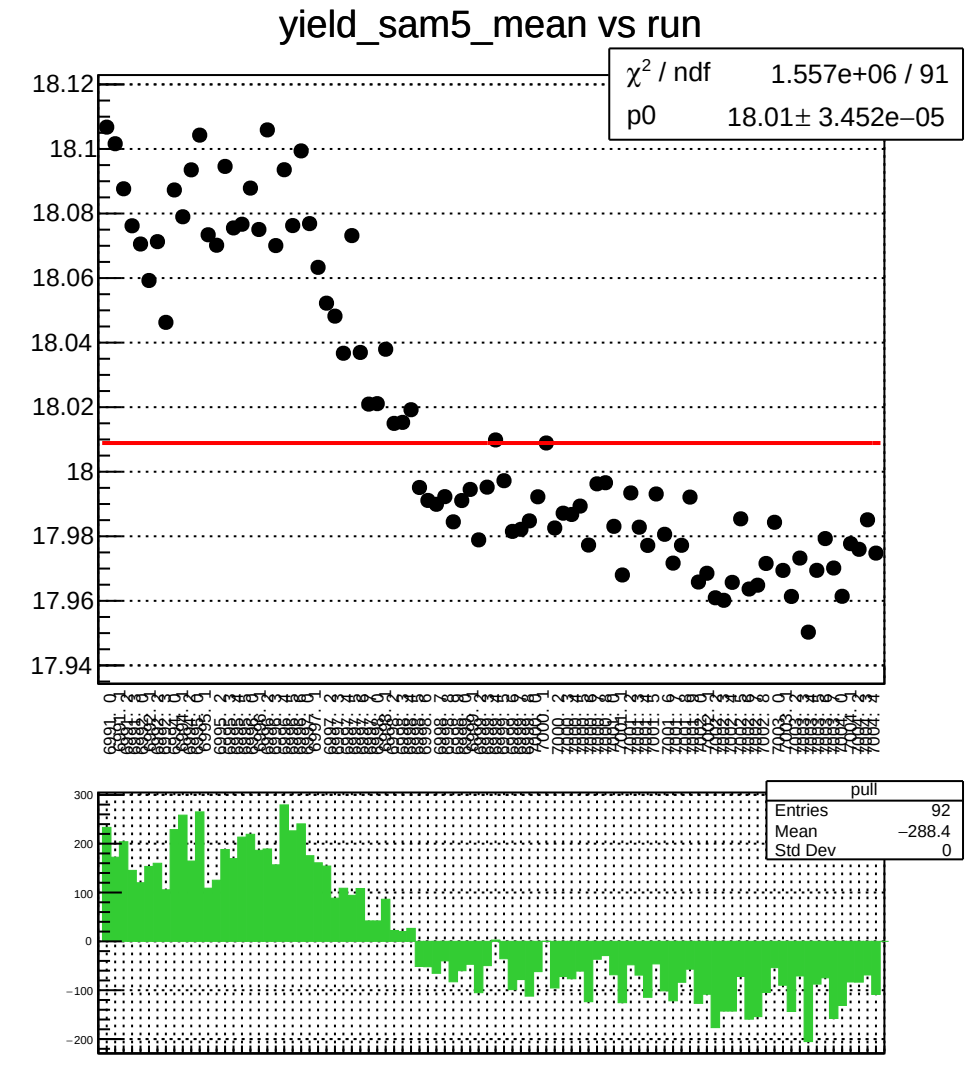

pull1D
Entries 92
Mean −1.098
Std Dev 3.148
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

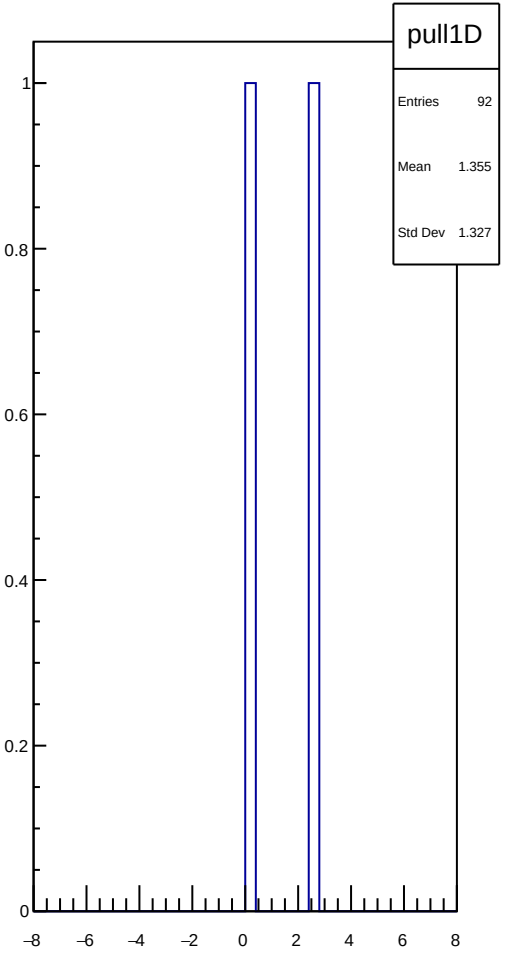

yield_sam3_rms vs run
χ² / ndf 3.031e+05 / 91
p0 0.07952 ± 6.577e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

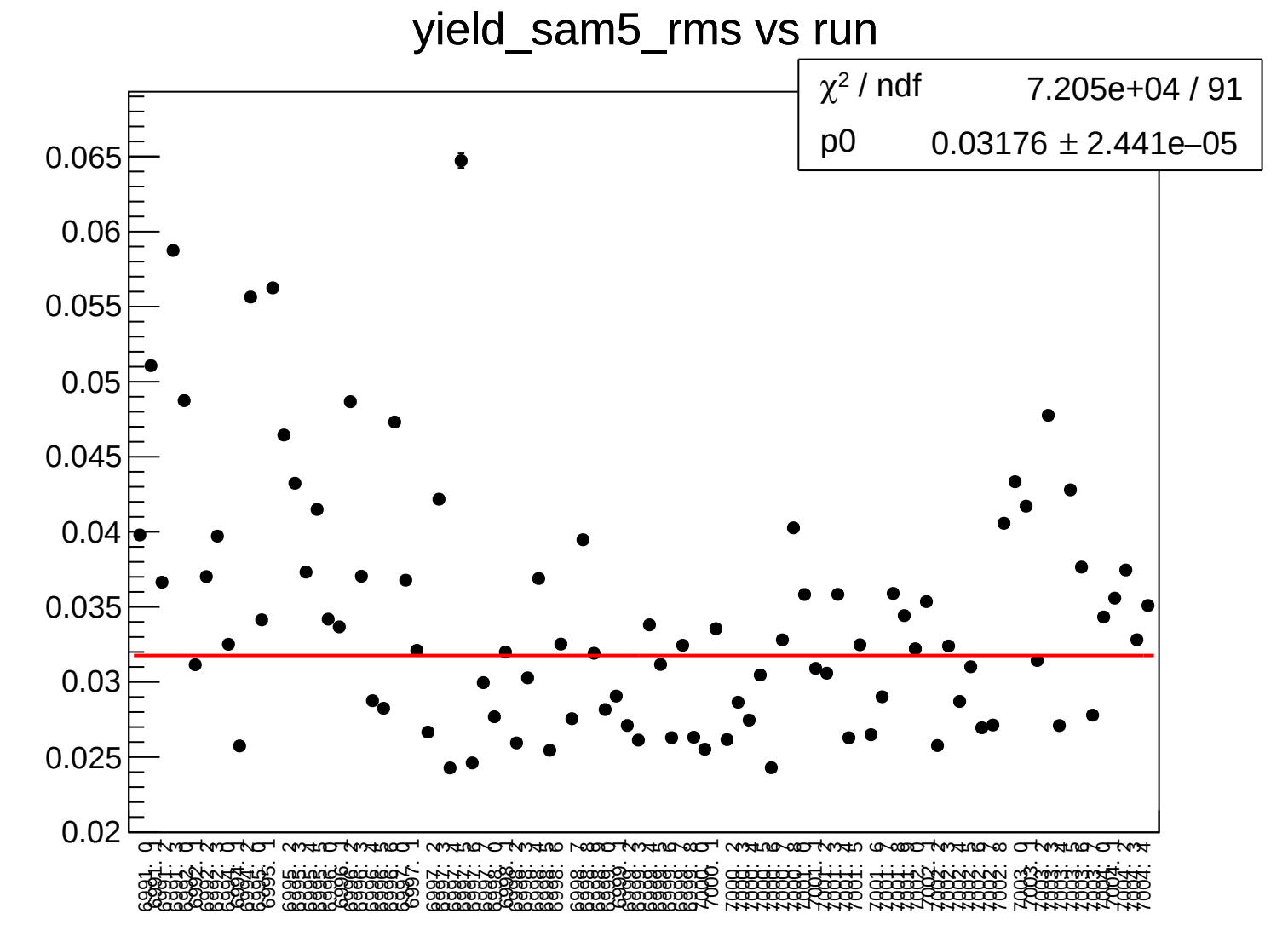

yield_sam4_mean vs run
χ² / ndf 3.445e+05 / 91
p0 15.05 ± 7.571e−05
15.2
15.15
15.1
15.05
15
14.95
14.9
pull
Entries 92
Mean 134.6
Std Dev 0
200
150
100
50
0
−50
−100

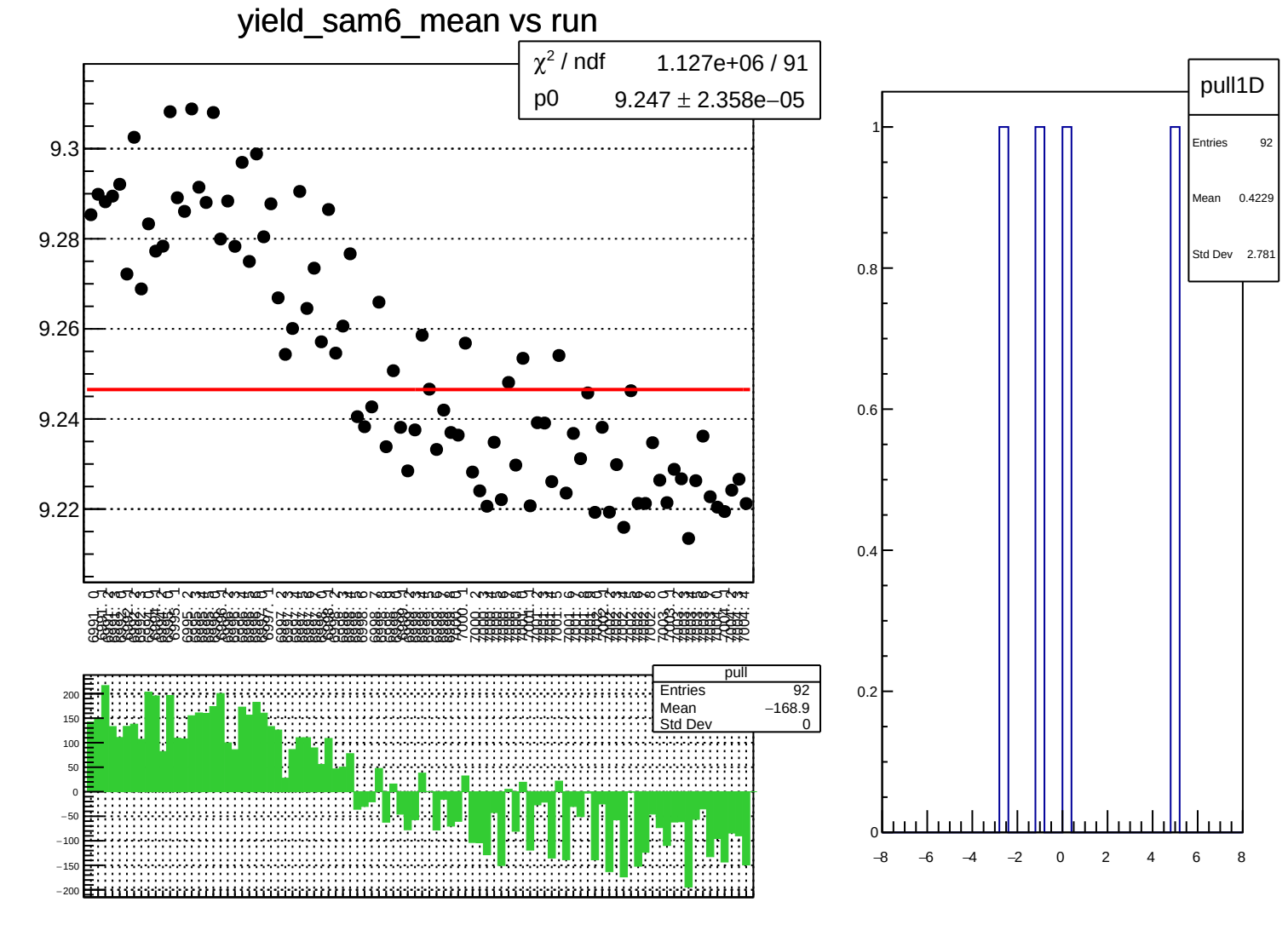

pull1D
Entries 92
Mean −0.7625
Std Dev 5.114
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

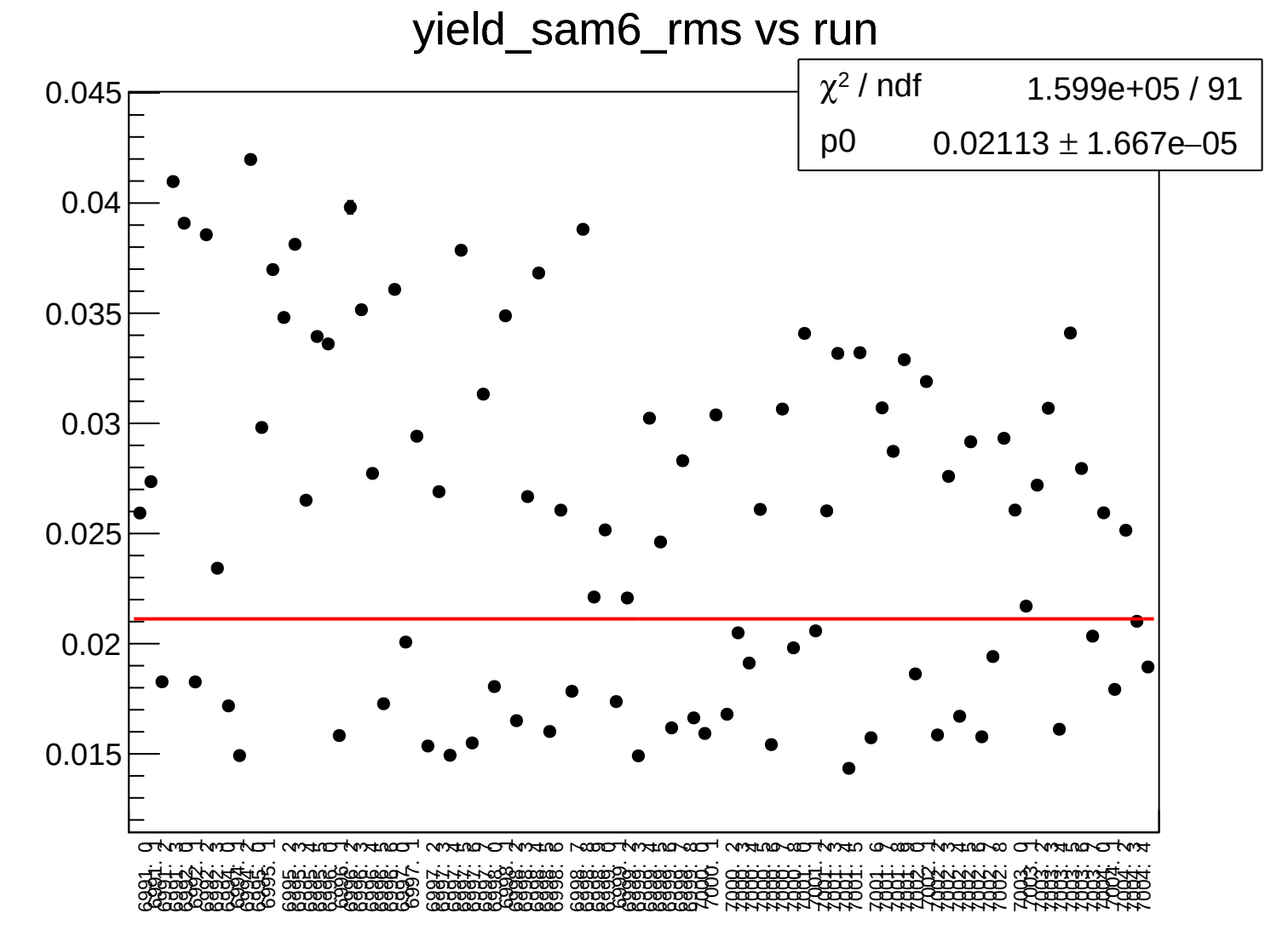

yield_sam4_rms vs run
χ² / ndf 2.108e+05 / 91
p0 0.06675 ± 5.354e−05
0.14
0.12
0.1
0.08
0.06
0.04

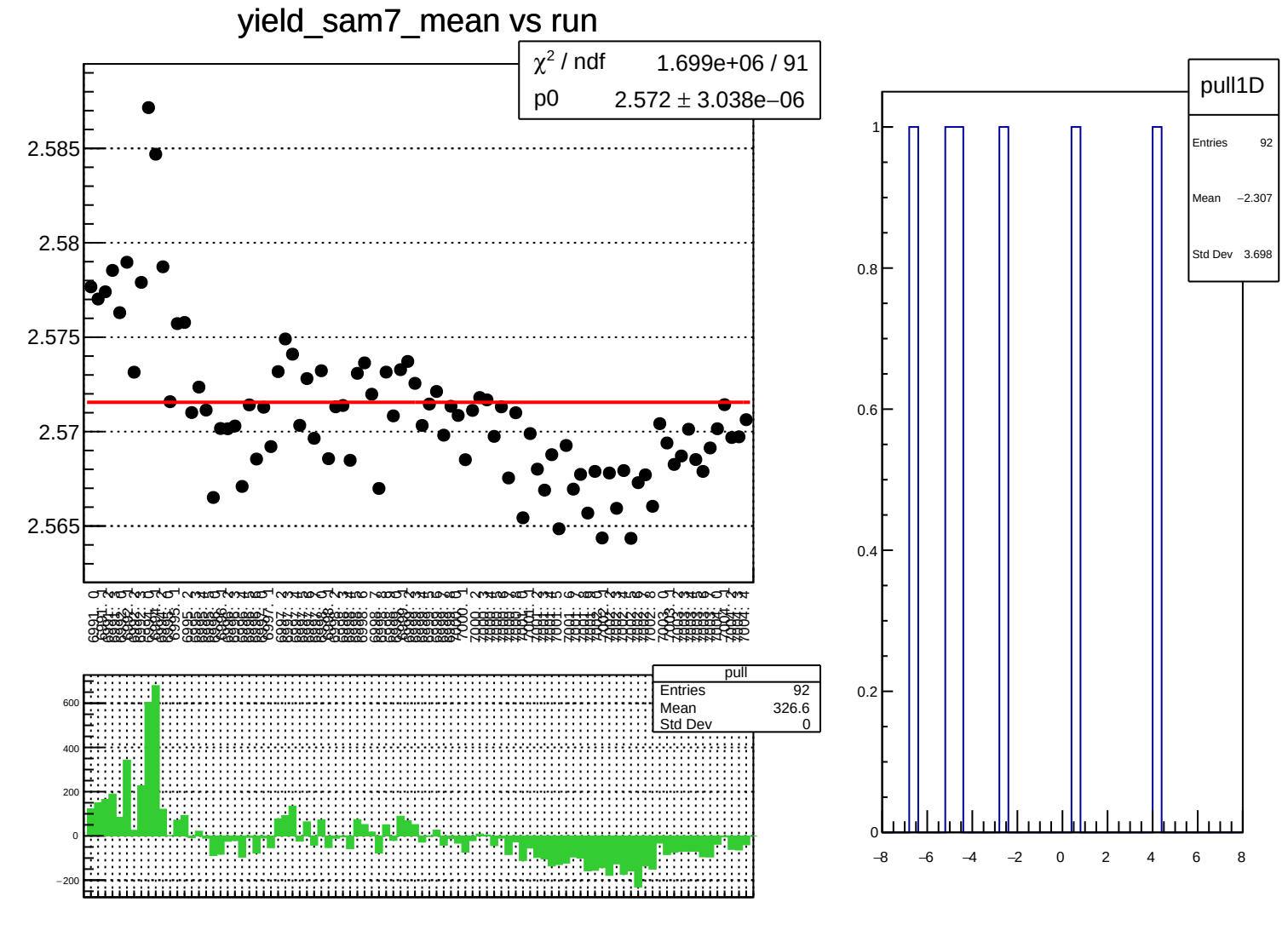

yield_sam5_mean vs run
χ² / ndf 1.557e+06 / 91
p0 18.01± 3.452e−05
18.12
18.1
18.08
18.06
18.04
18.02
18
17.98
17.96
17.94
pull
Entries 92
Mean −288.4
Std Dev 0
300
200
100
0
−100
−200

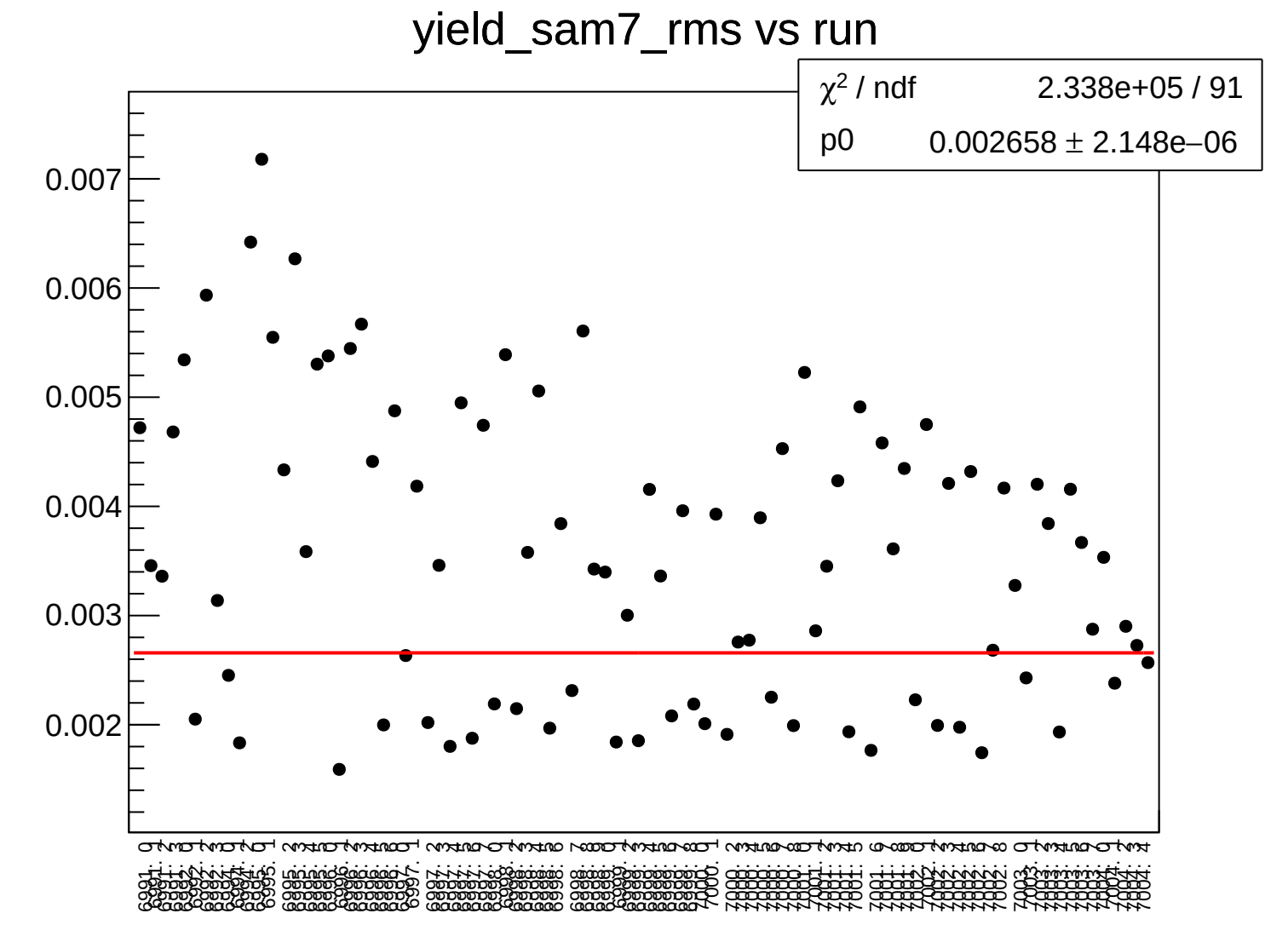

pull1D
Entries 92
Mean 1.355
Std Dev 1.327
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

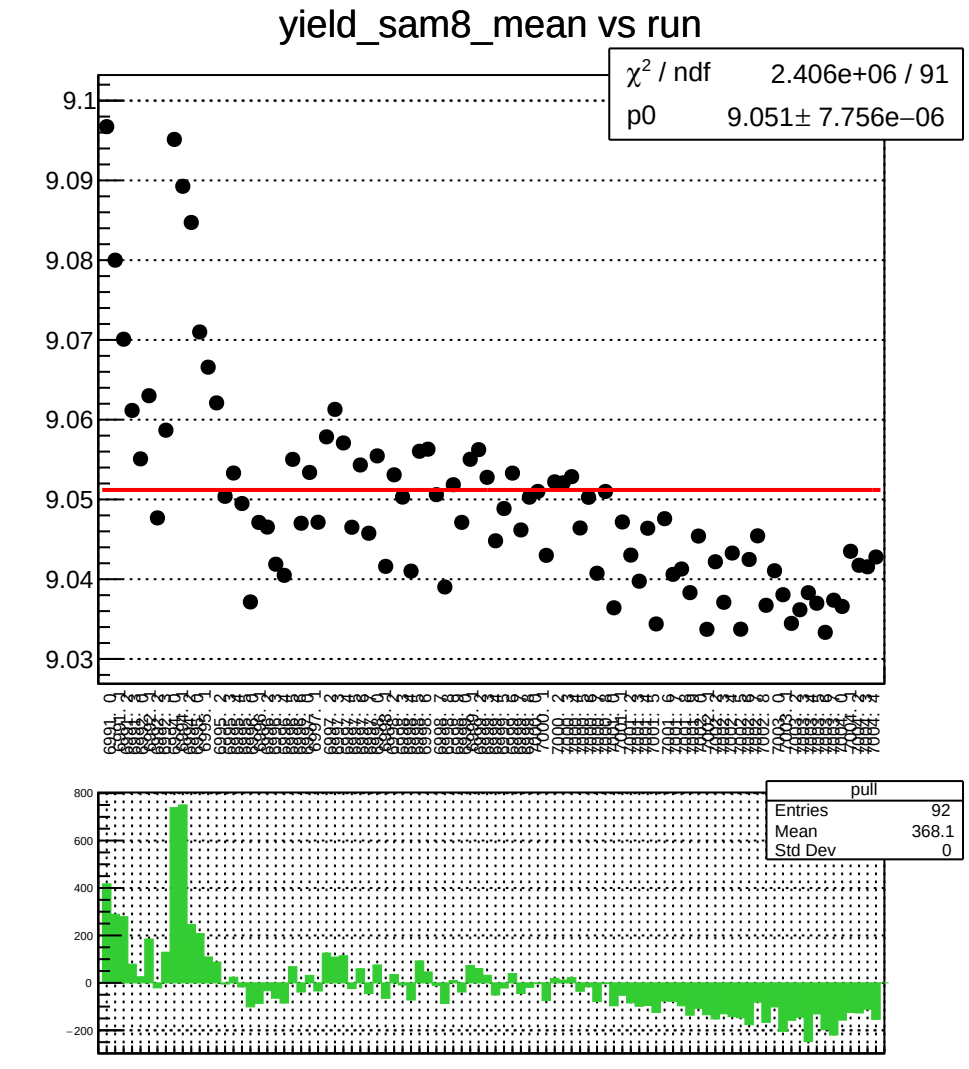

yield_sam5_rms vs run
χ² / ndf 7.205e+04 / 91
p0 0.03176 ± 2.441e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

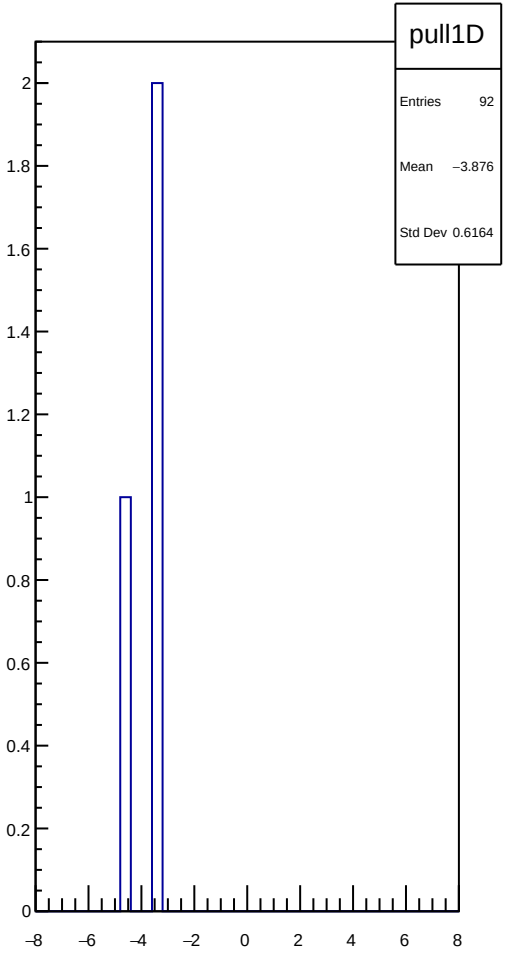

yield_sam6_mean vs run
χ² / ndf 1.127e+06 / 91
p0 9.247 ± 2.358e−05
9.3
9.28
9.26
9.24
9.22
pull
Entries 92
Mean −168.9
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 92
Mean 0.4229
Std Dev 2.781
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

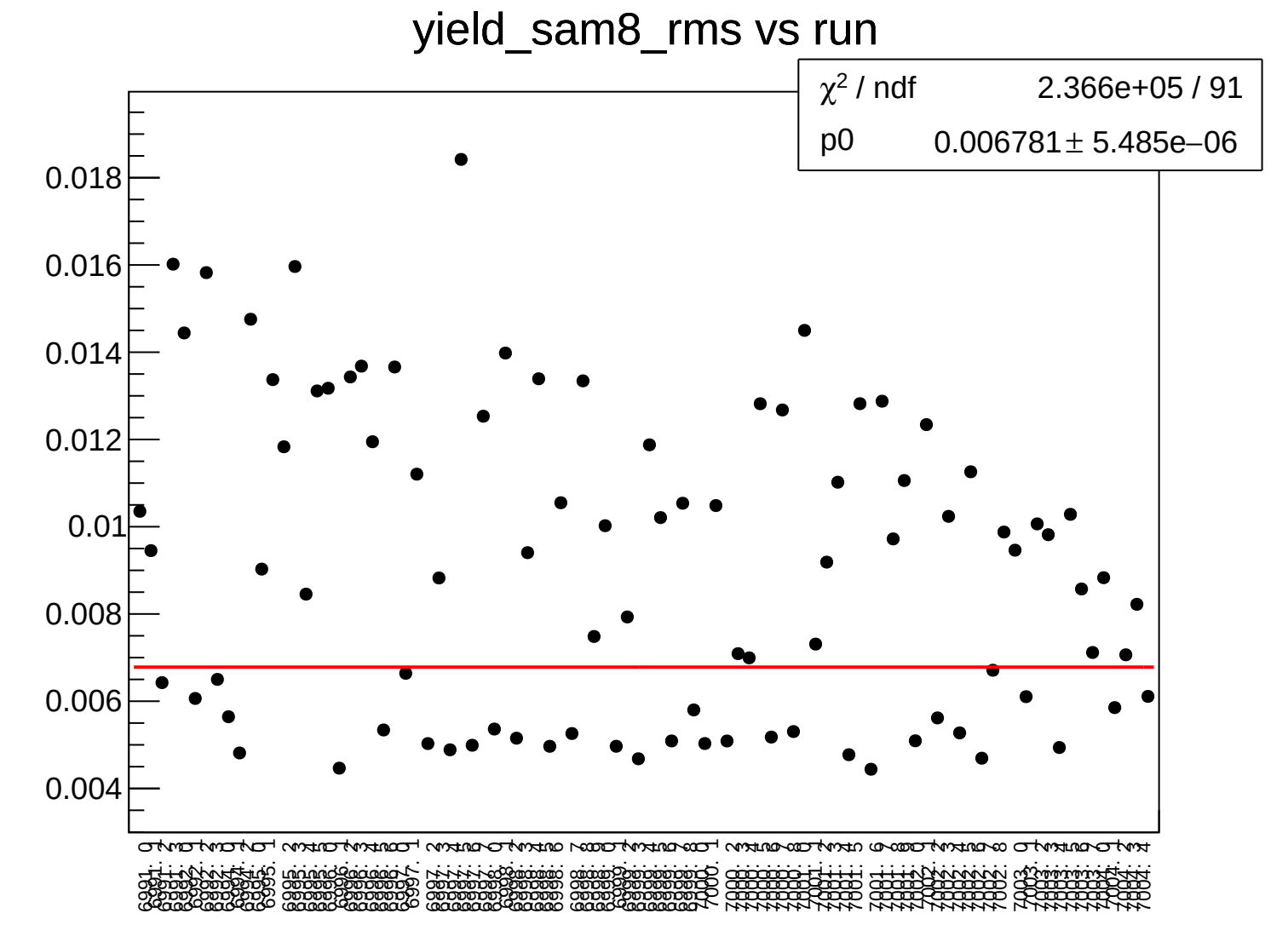

yield_sam6_rms vs run
χ² / ndf 1.599e+05 / 91
p0 0.02113 ± 1.667e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

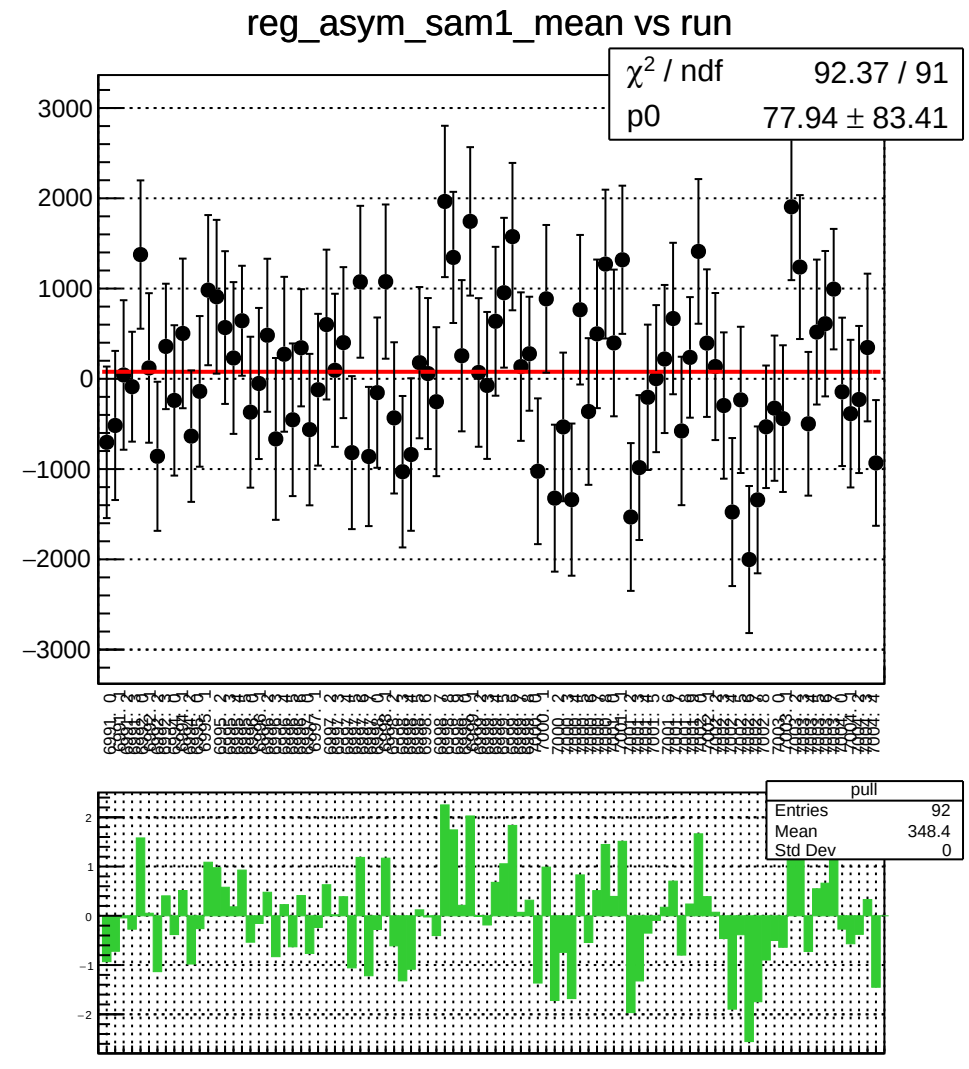

yield_sam7_mean vs run
χ² / ndf 1.699e+06 / 91
p0 2.572 ± 3.038e−06
2.585
2.58
2.575
2.57
2.565
pull
Entries 92
Mean 326.6
Std Dev 0
600
400
200
0
−200
pull1D
Entries 92
Mean −2.307
Std Dev 3.698
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

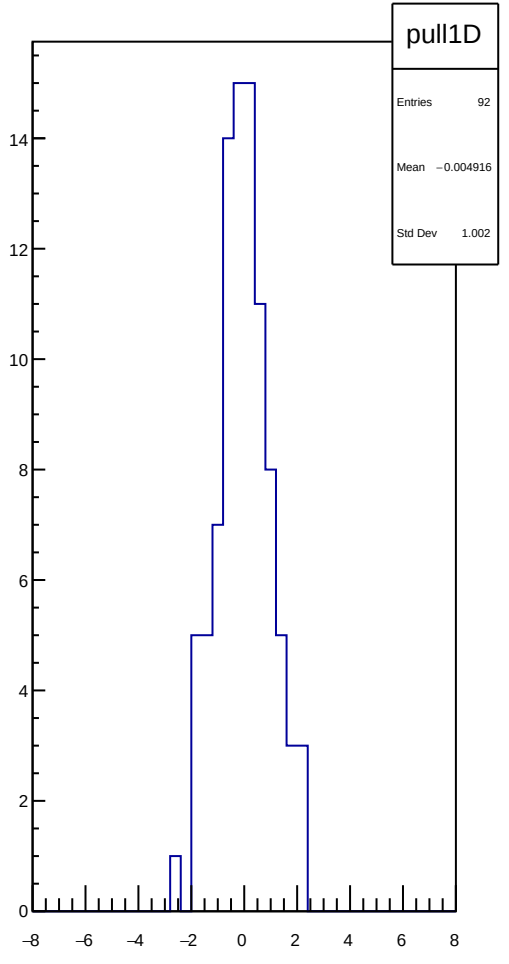

yield_sam7_rms vs run
χ² / ndf 2.338e+05 / 91
p0 0.002658 ± 2.148e−06
0.007
0.006
0.005
0.004
0.003
0.002

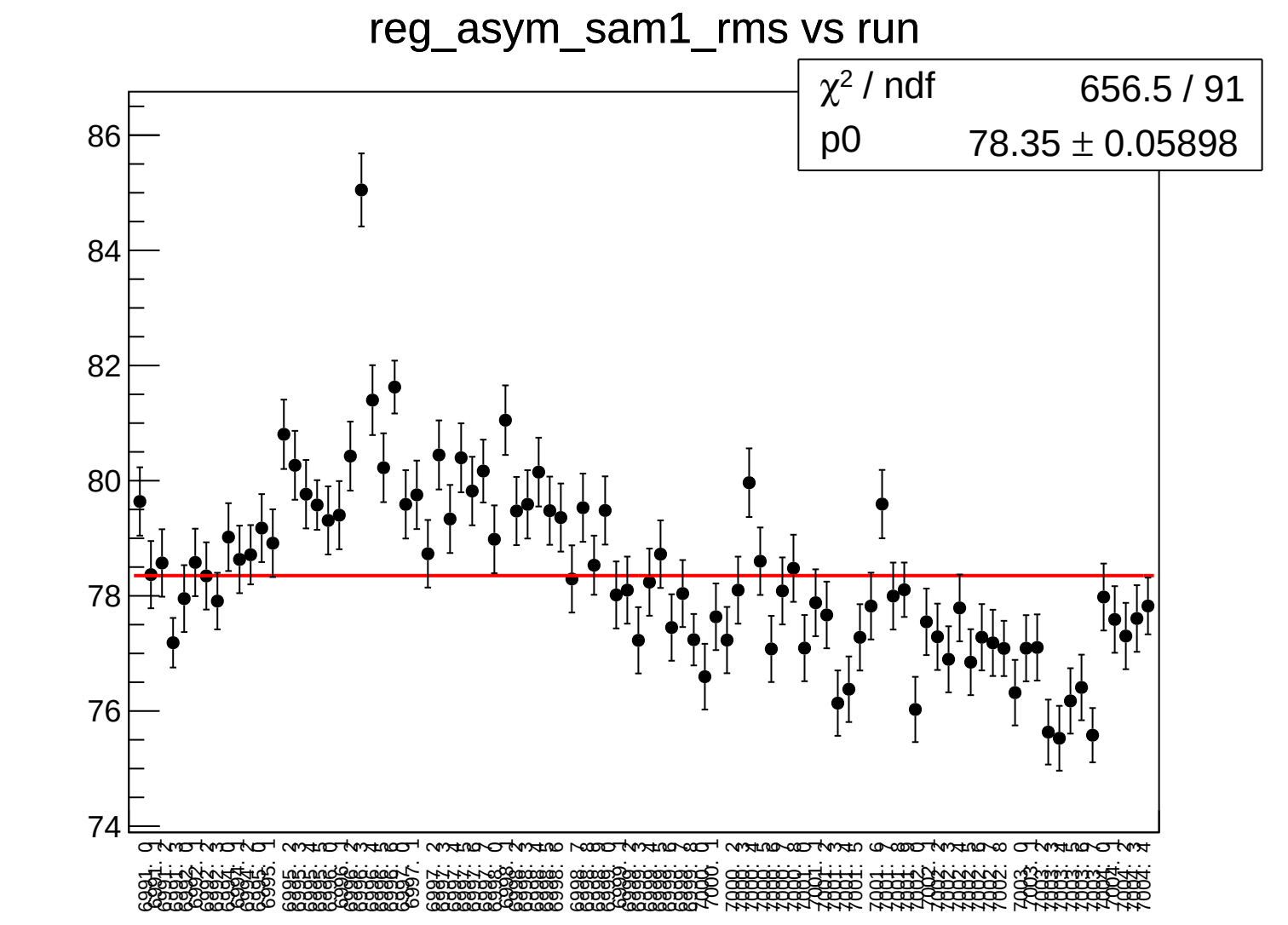

yield_sam8_mean vs run
χ² / ndf 2.406e+06 / 91
p0 9.051± 7.756e−06
9.1
9.09
9.08
9.07
9.06
9.05
9.04
9.03
pull
Entries 92
Mean 368.1
Std Dev 0
800
600
400
200
0
−200

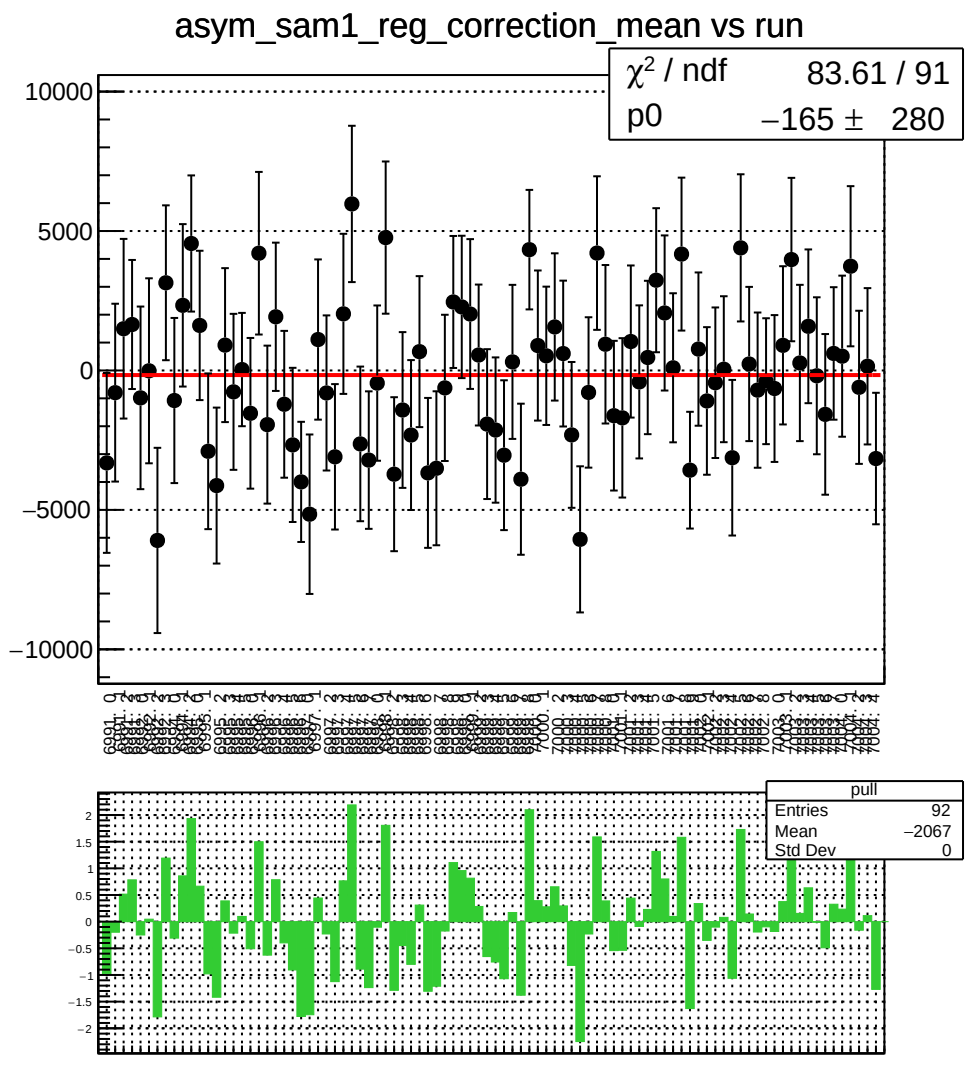

pull1D
Entries 92
Mean −3.876
Std Dev 0.6164
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

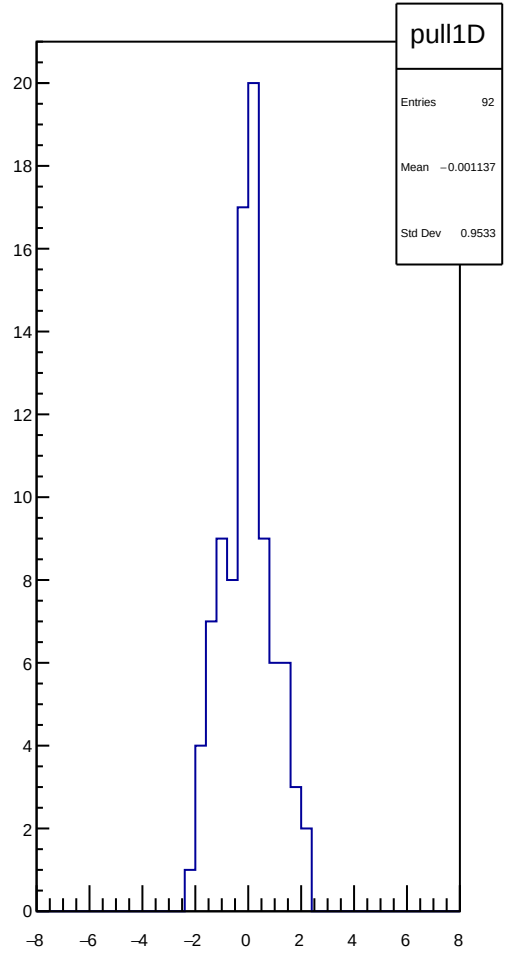

yield_sam8_rms vs run
χ² / ndf 2.366e+05 / 91
p0 0.006781 ± 5.485e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

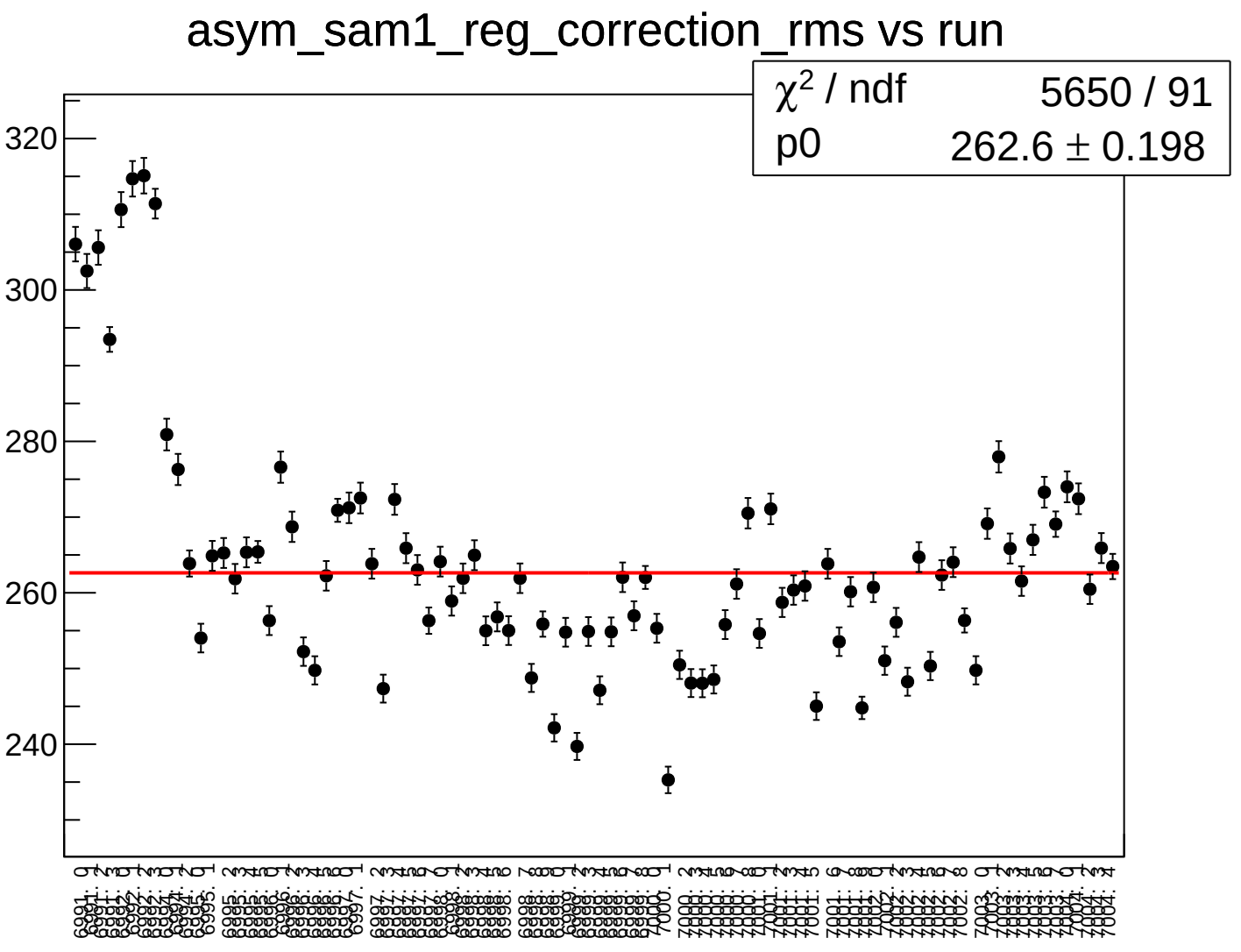

reg_asym_sam1_mean vs run
χ² / ndf 92.37 / 91
p0 77.94 ± 83.41
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 348.4
Std Dev 0
2
1
0
−1
−2

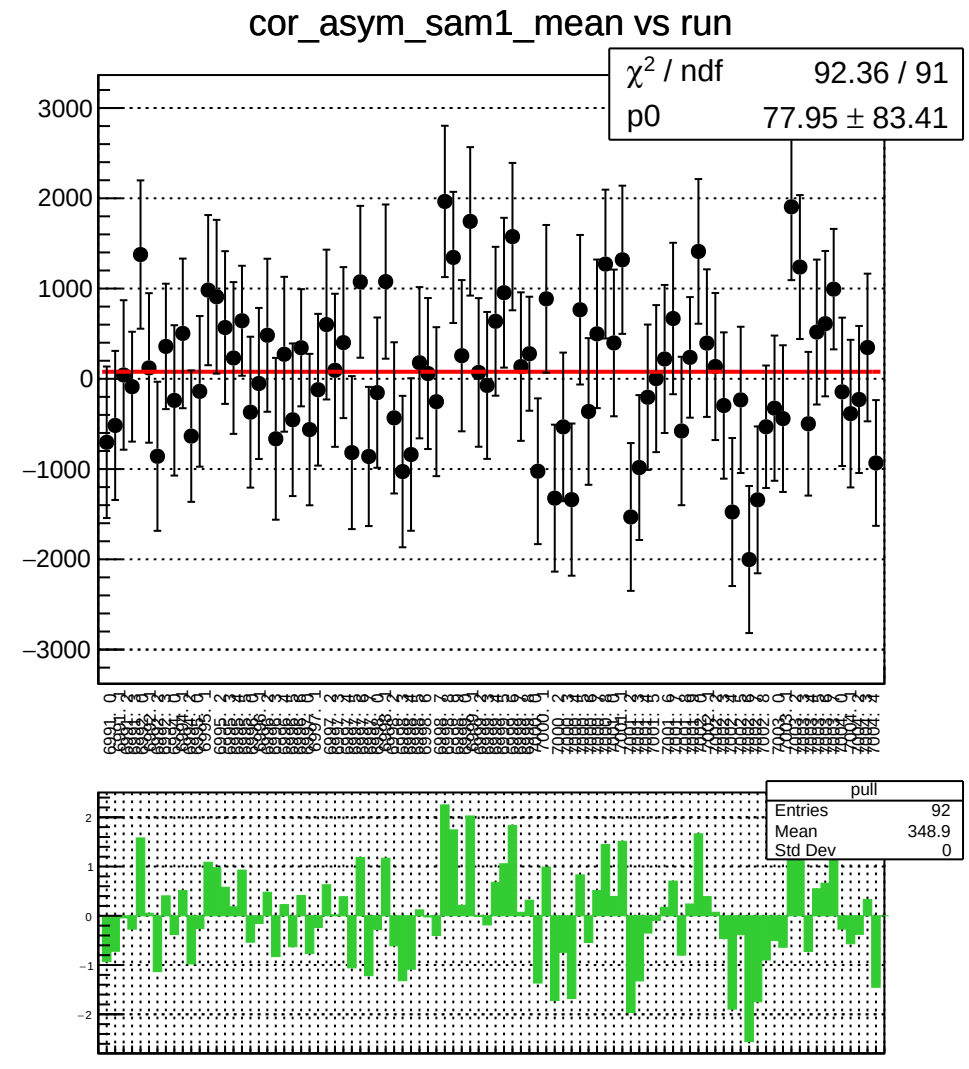

pull1D
Entries 92
Mean −0.004916
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

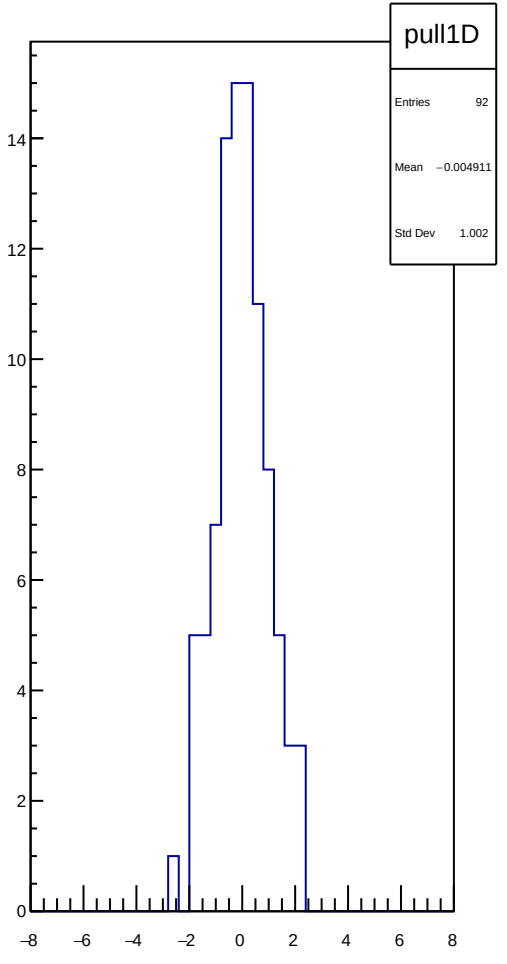

reg_asym_sam1_rms vs run
χ² / ndf 656.5 / 91
p0 78.35 ± 0.05898
86
84
82
80
78
76
74

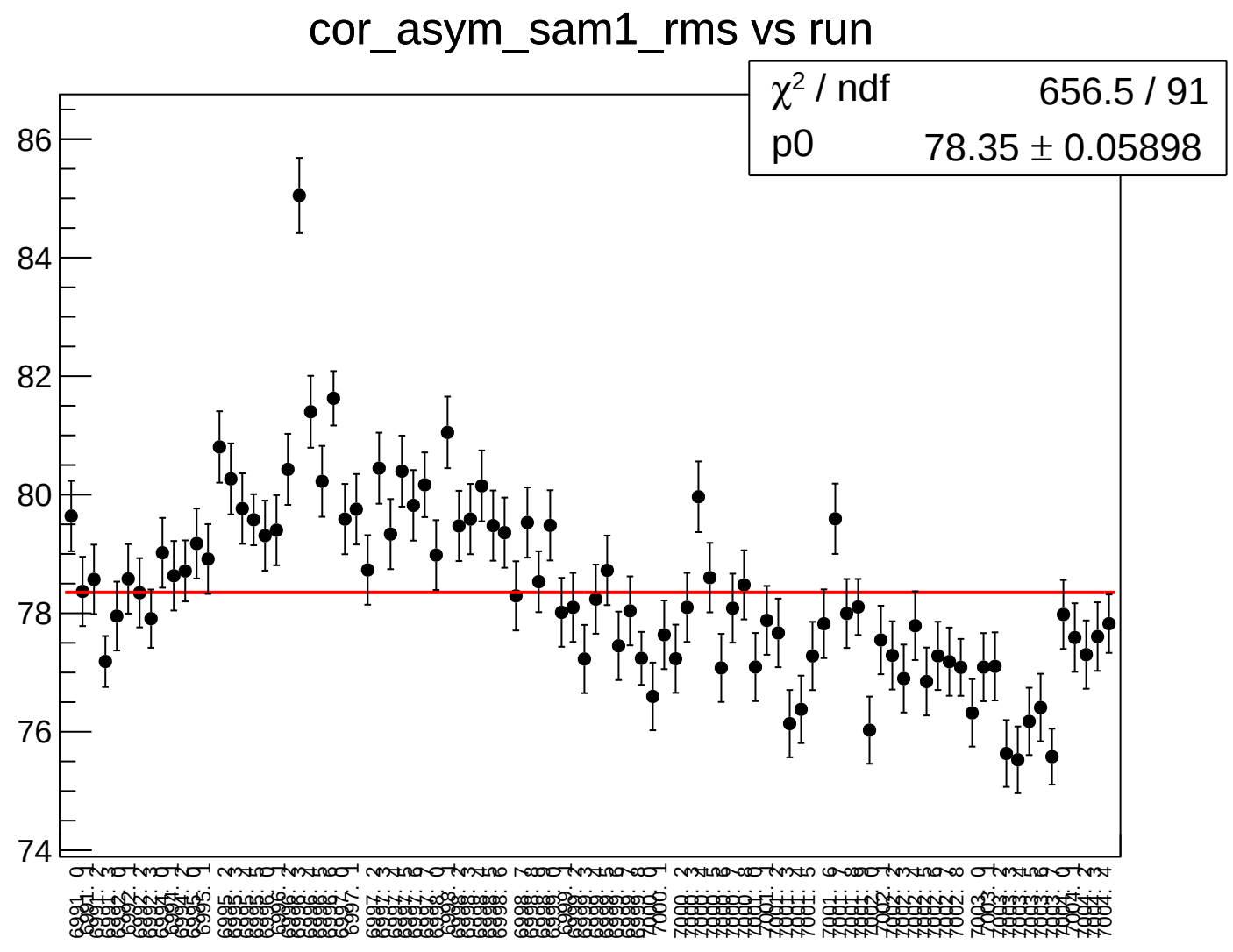

asym_sam1_reg_correction_mean vs run
χ² / ndf 83.61 / 91
p0 −165 ± 280
pull
Entries 92
Mean −2067
Std Dev 0

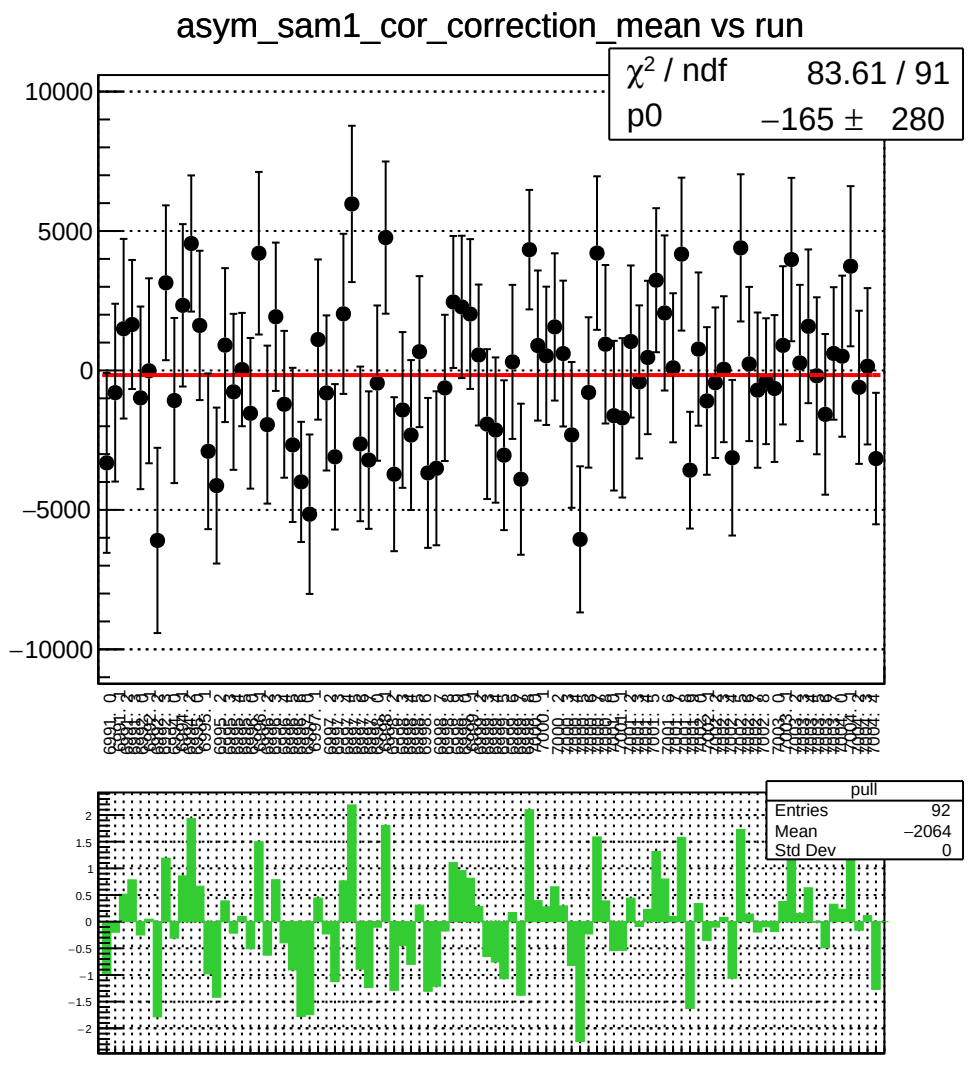

pull1D
Entries 92
Mean −0.001137
Std Dev 0.9533

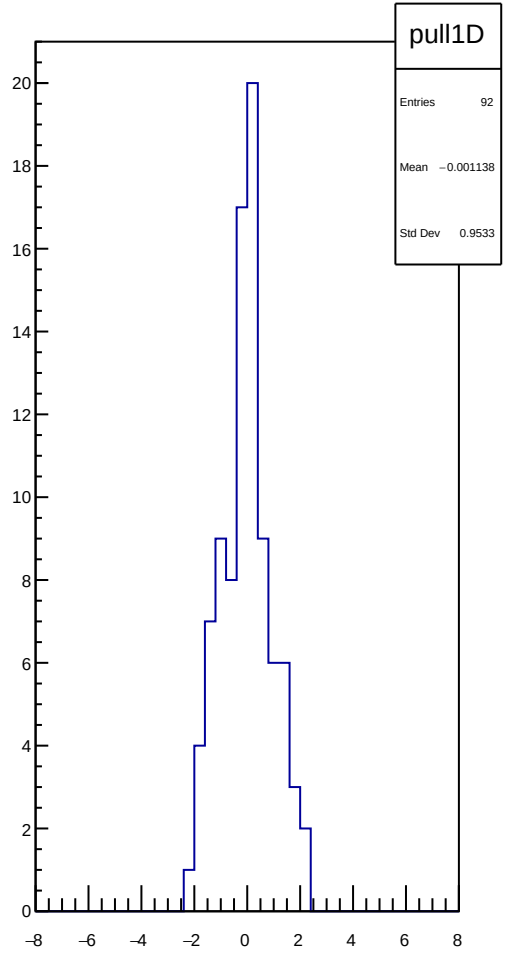

asym_sam1_reg_correction_rms vs run
χ² / ndf 5650 / 91
p0 262.6 ± 0.198
320
300
280
260
240

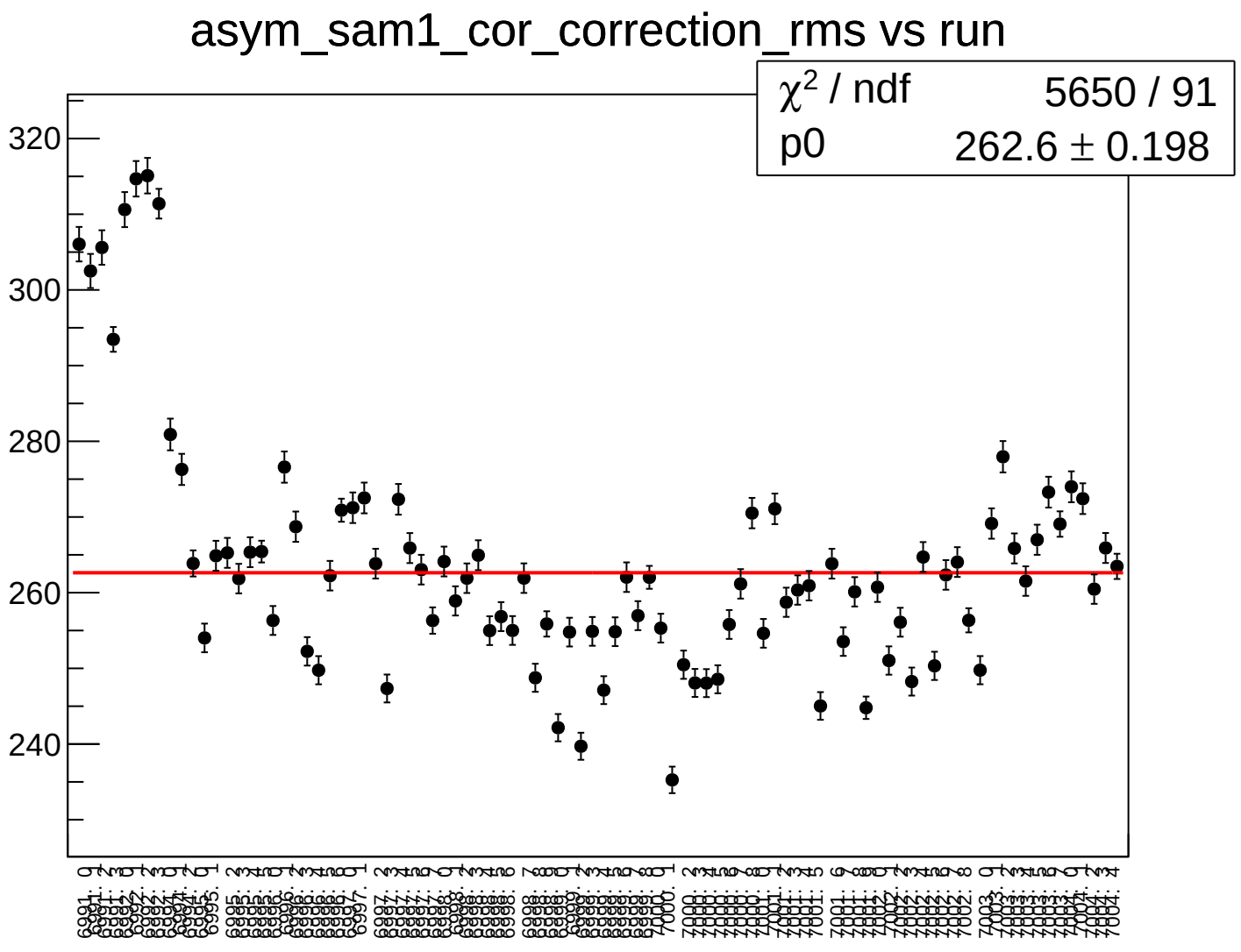

cor_asym_sam1_mean vs run
χ² / ndf 92.36 / 91
p0 77.95 ± 83.41
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 348.9
Std Dev 0
2
1
0
−1
−2

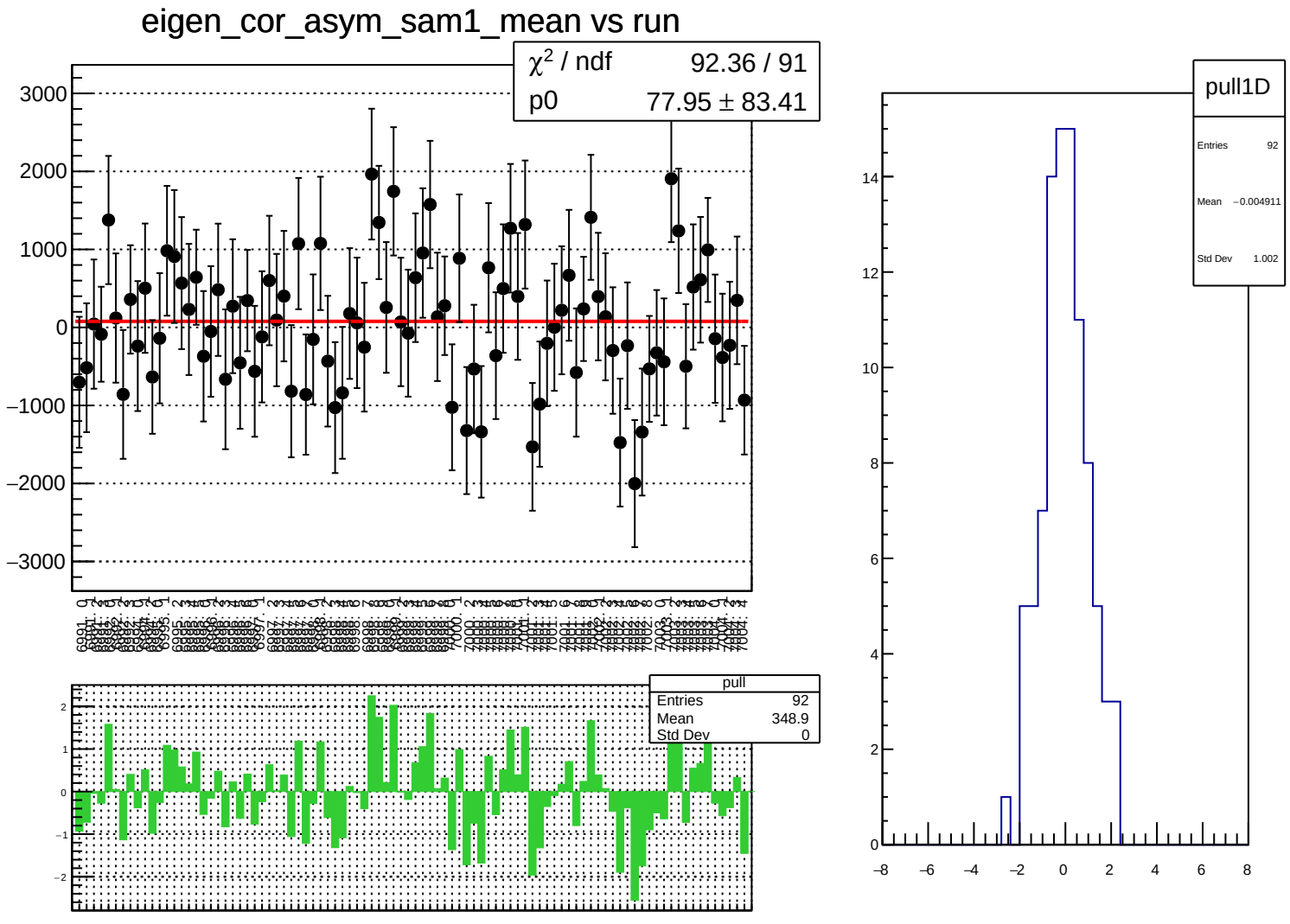

pull1D
Entries 92
Mean −0.004911
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

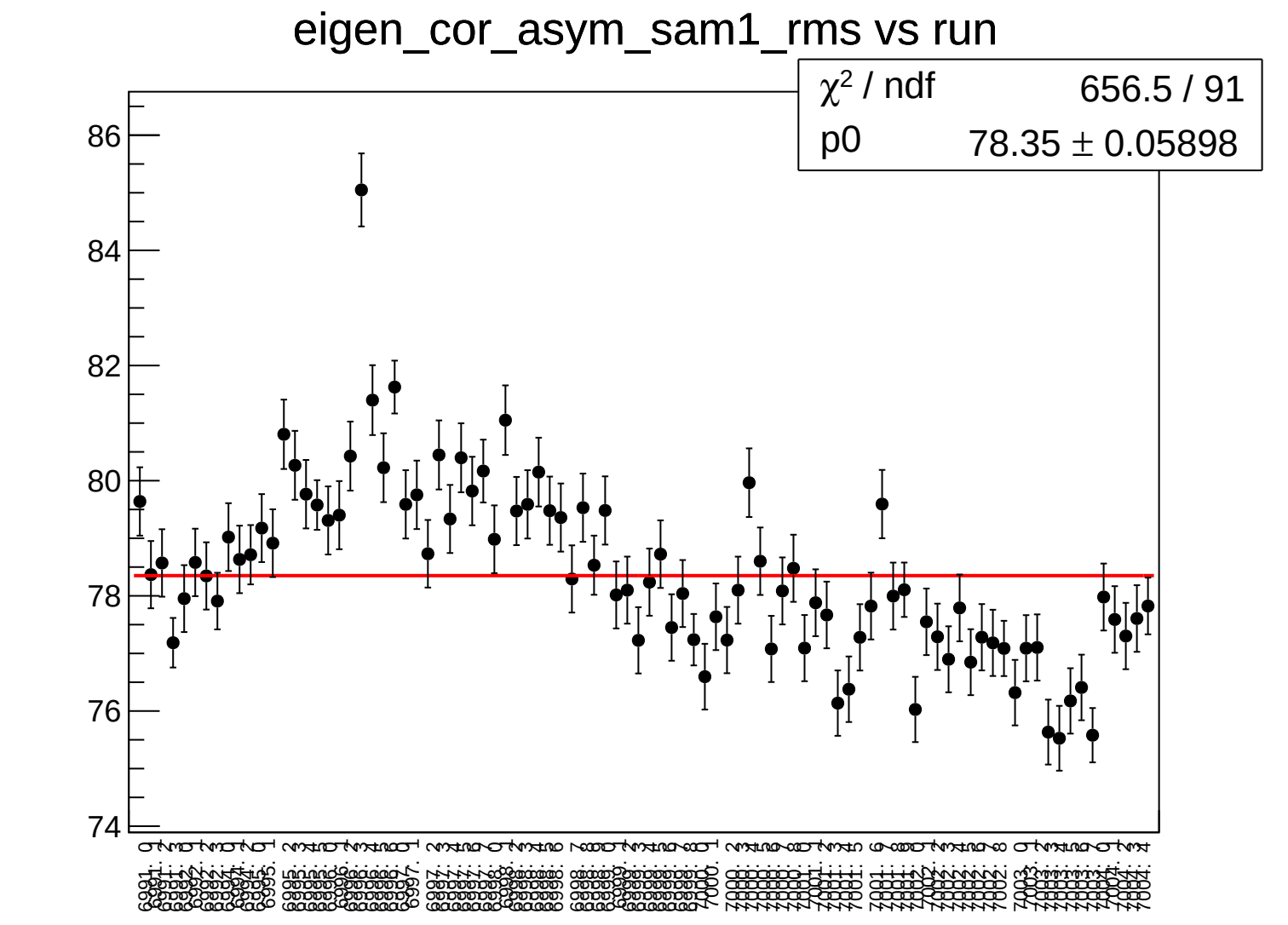

cor_asym_sam1_rms vs run
χ² / ndf 656.5 / 91
p0 78.35 ± 0.05898
86
84
82
80
78
76
74

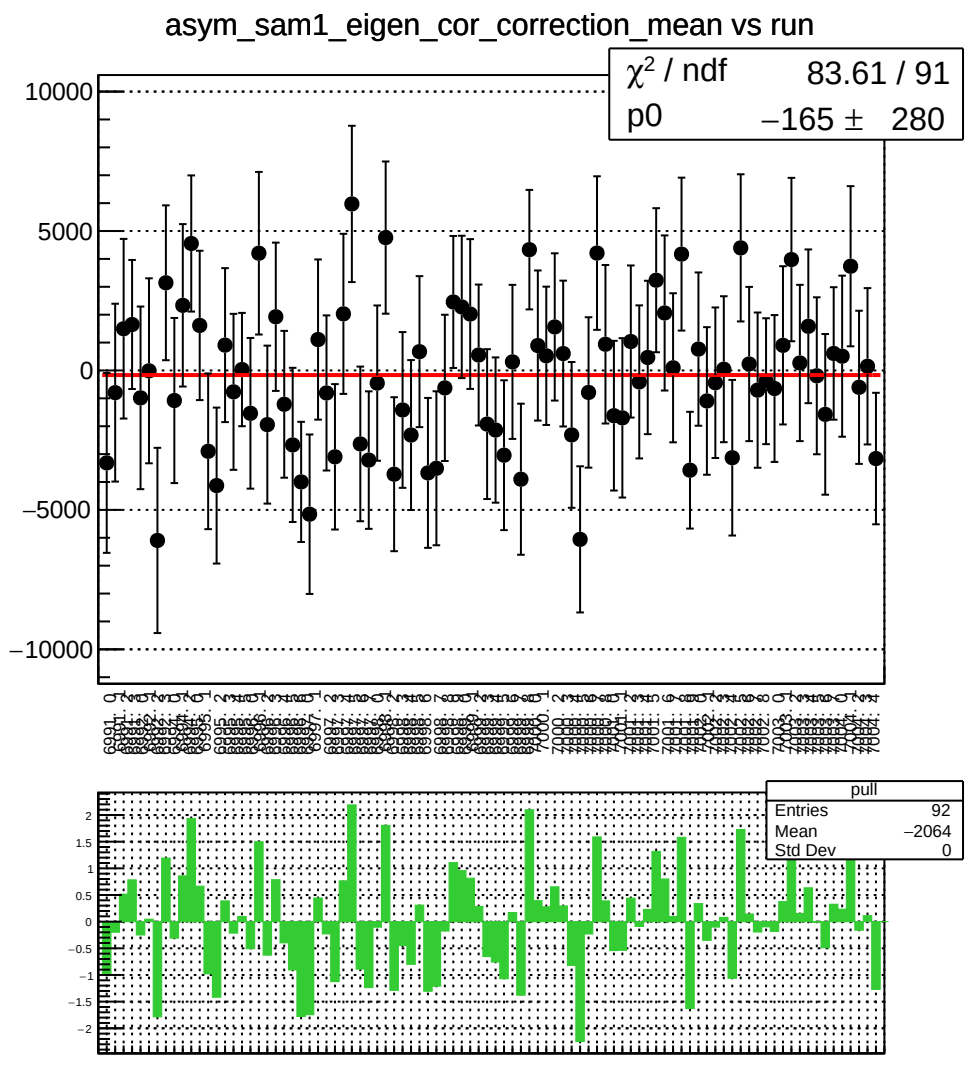

asym_sam1_cor_correction_mean vs run
χ² / ndf 83.61 / 91
p0 −165 ± 280
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −2064
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

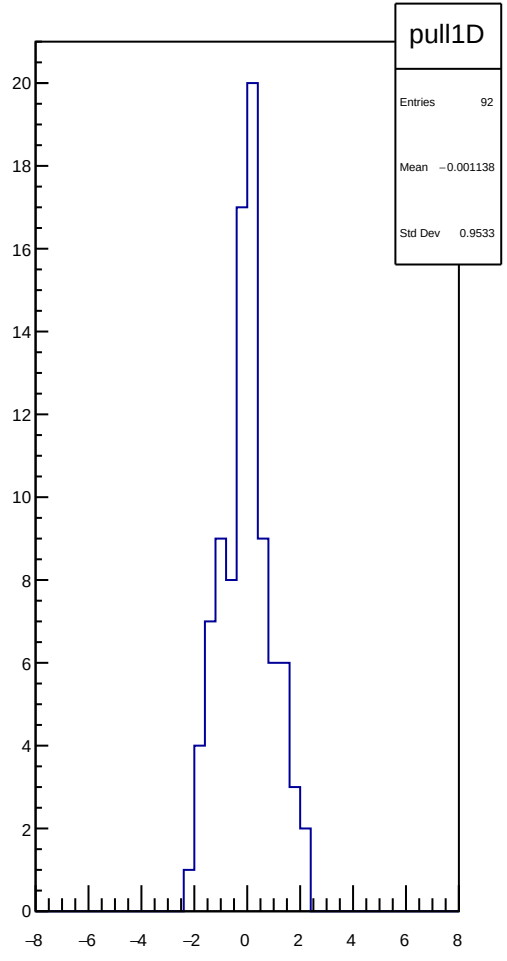

pull1D
Entries 92
Mean −0.001138
Std Dev 0.9533
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

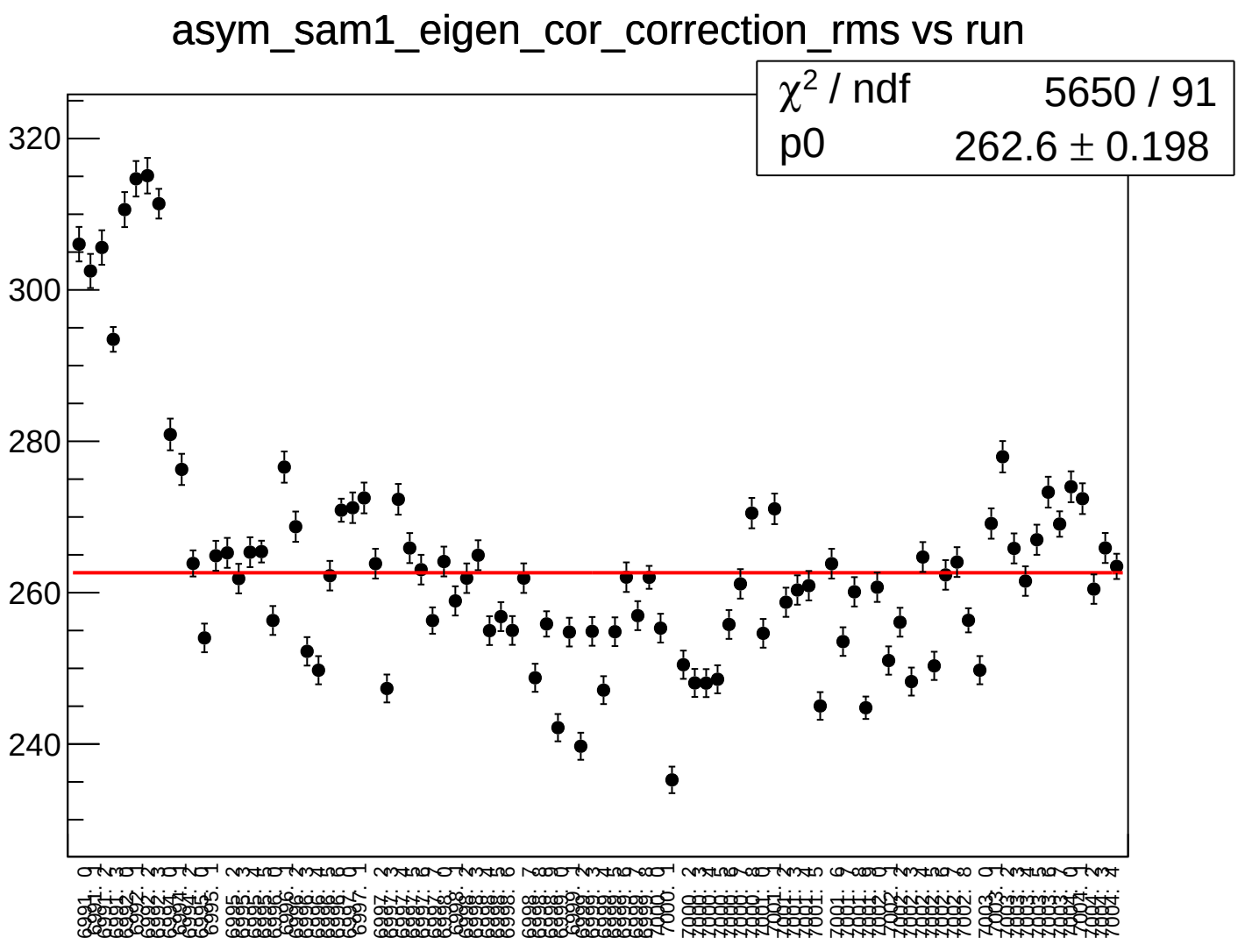

asym_sam1_cor_correction_rms vs run
χ² / ndf 5650 / 91
p0 262.6 ± 0.198
320
300
280
260
240

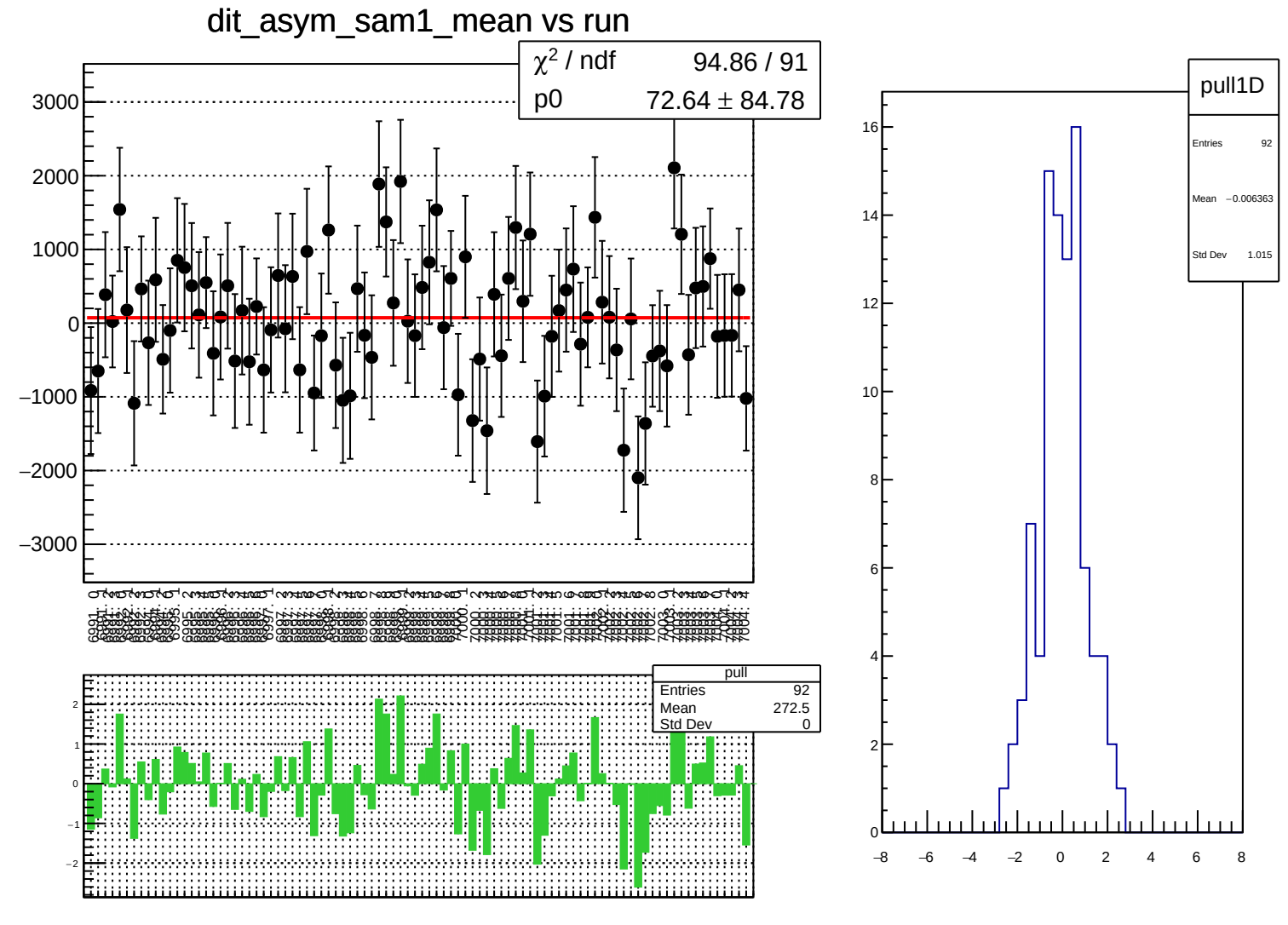

eigen_cor_asym_sam1_mean vs run
χ² / ndf 92.36 / 91
p0 77.95 ± 83.41
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 348.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004911
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

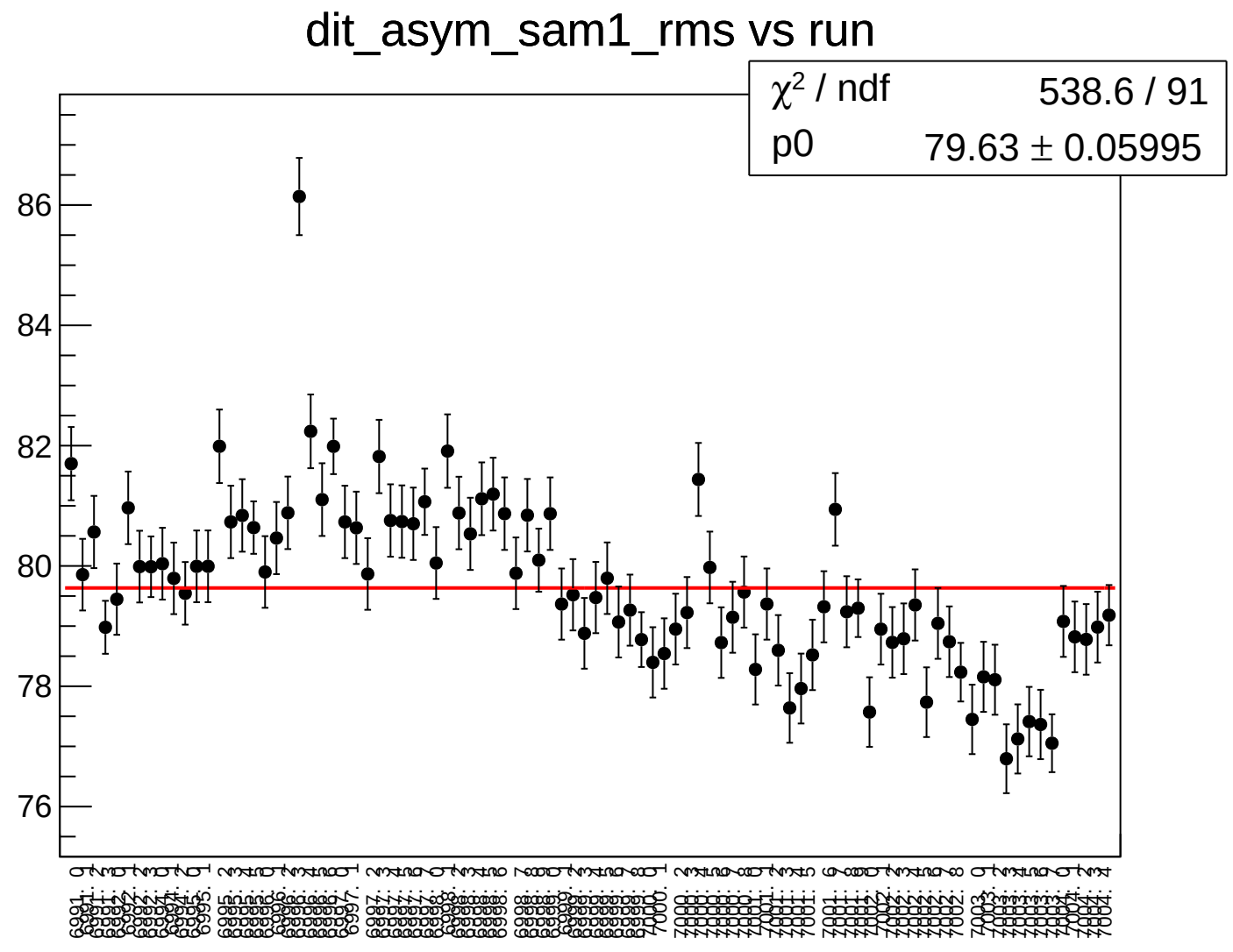

eigen_cor_asym_sam1_rms vs run
χ² / ndf 656.5 / 91
p0 78.35 ± 0.05898
86
84
82
80
78
76
74

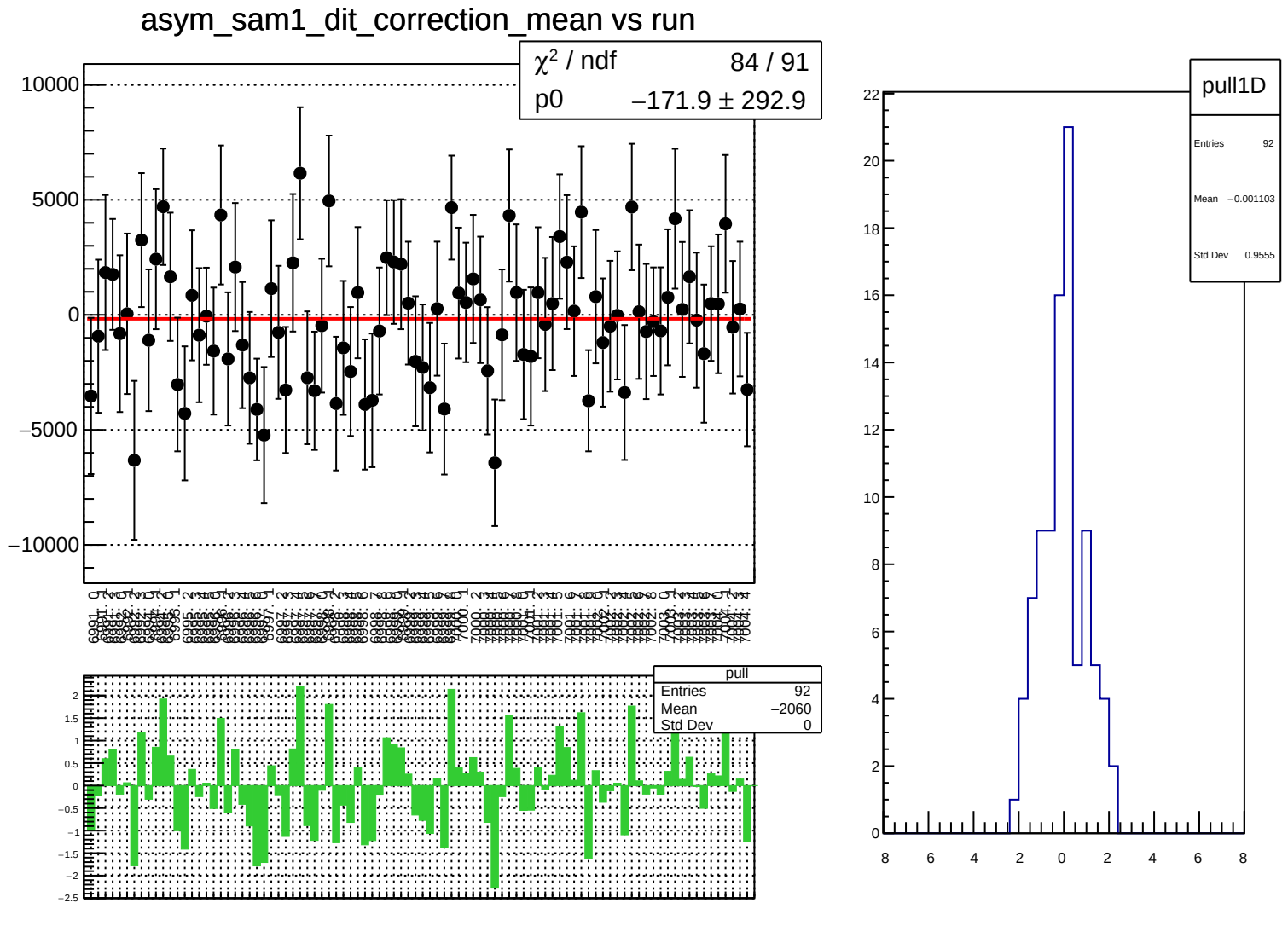

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 83.61 / 91
p0 −165 ± 280
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −2064
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

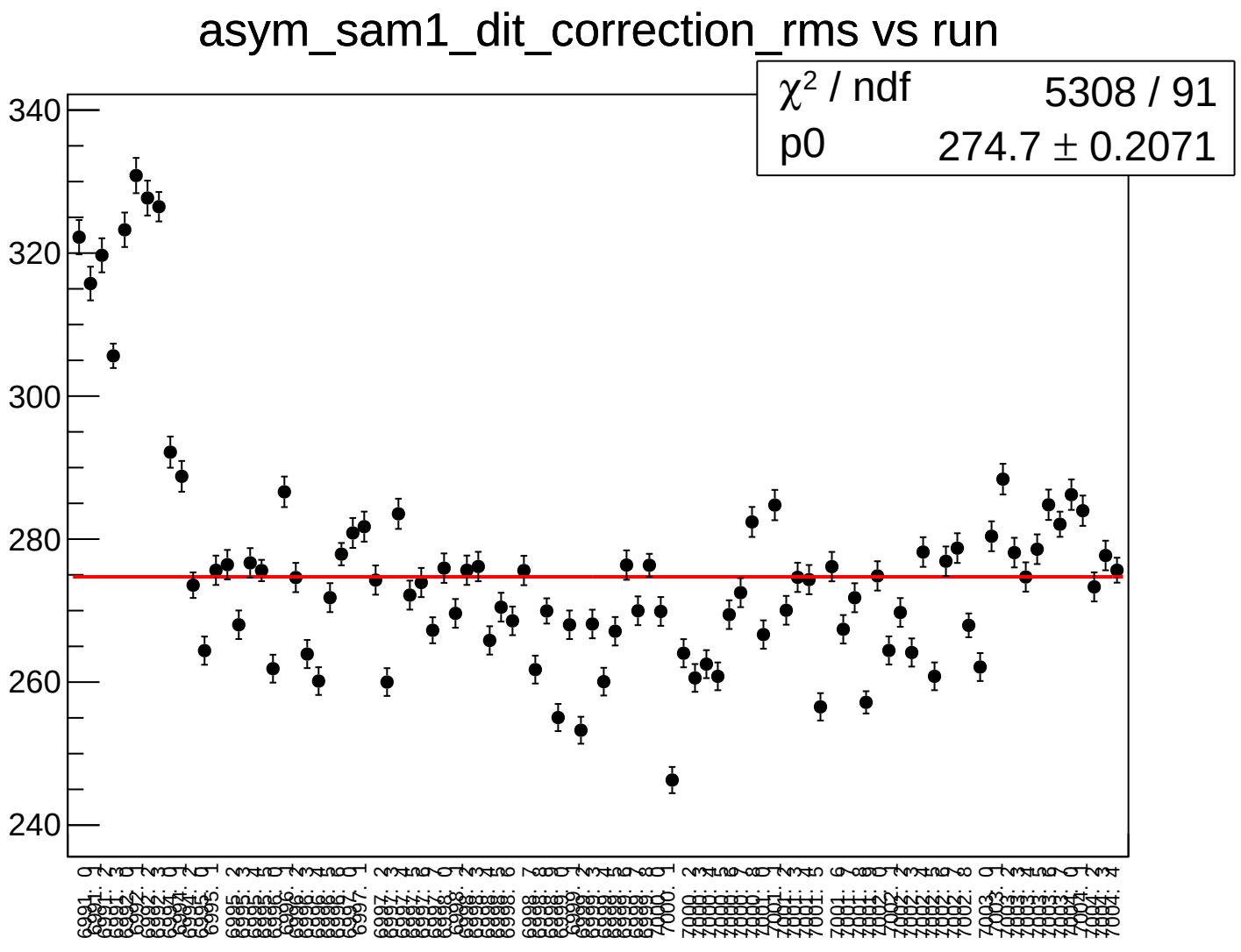

pull1D
Entries 92
Mean −0.001138
Std Dev 0.9533
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

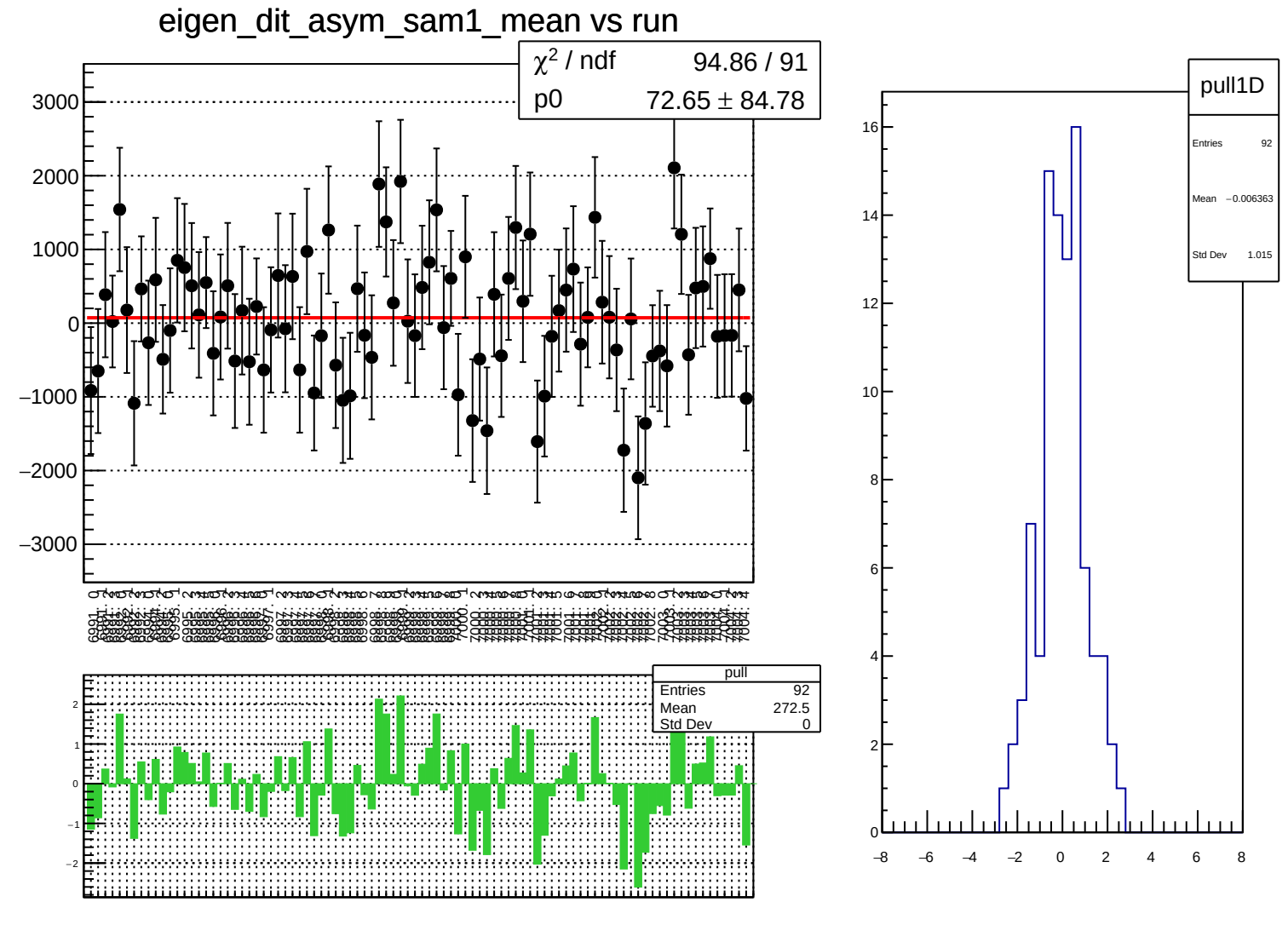

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 5650 / 91
p0 262.6 ± 0.198
320
300
280
260
240

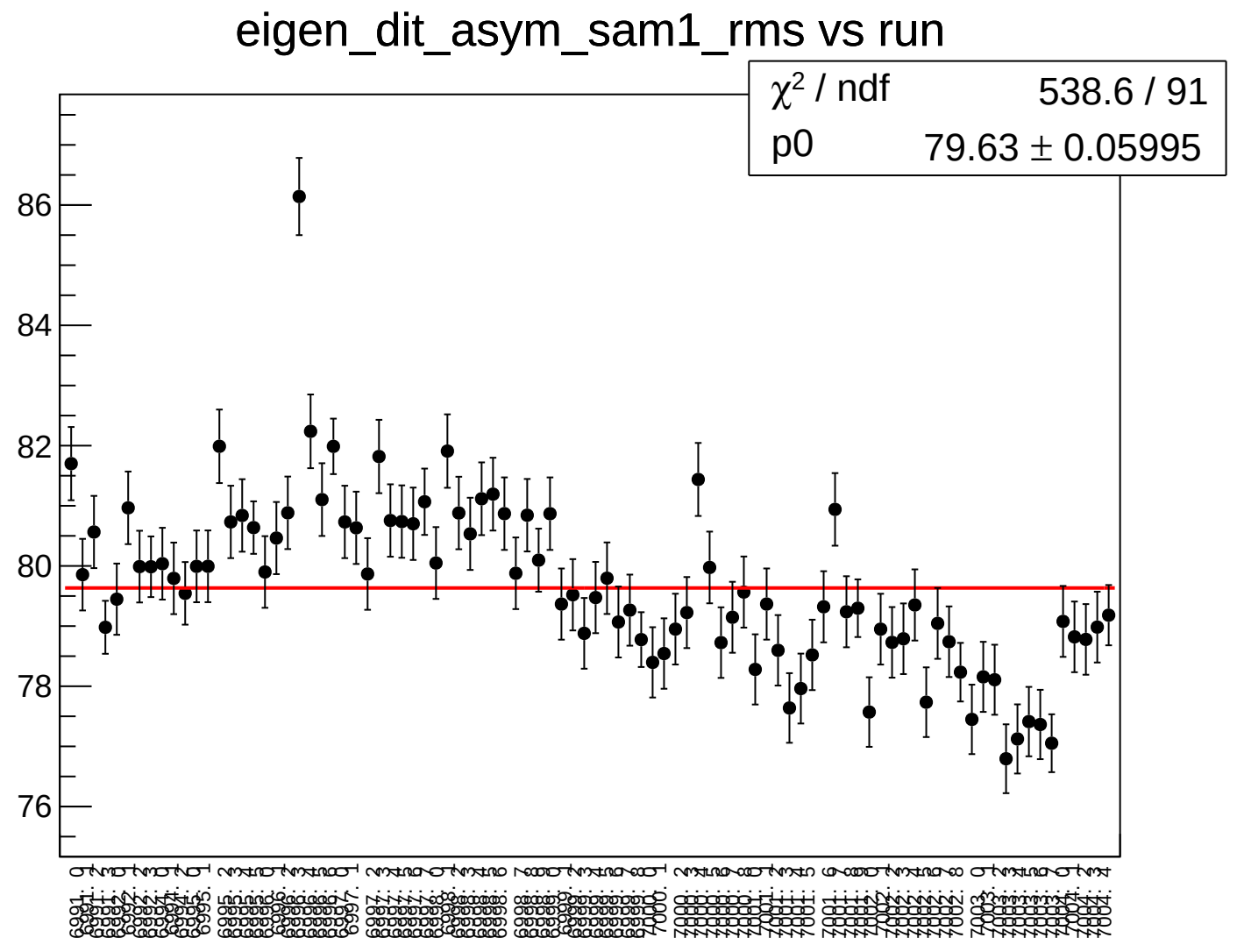

dit_asym_sam1_mean vs run
χ² / ndf 94.86 / 91
p0 72.64 ± 84.78
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 272.5
Std Dev 0
pull1D
Entries 92
Mean −0.006363
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

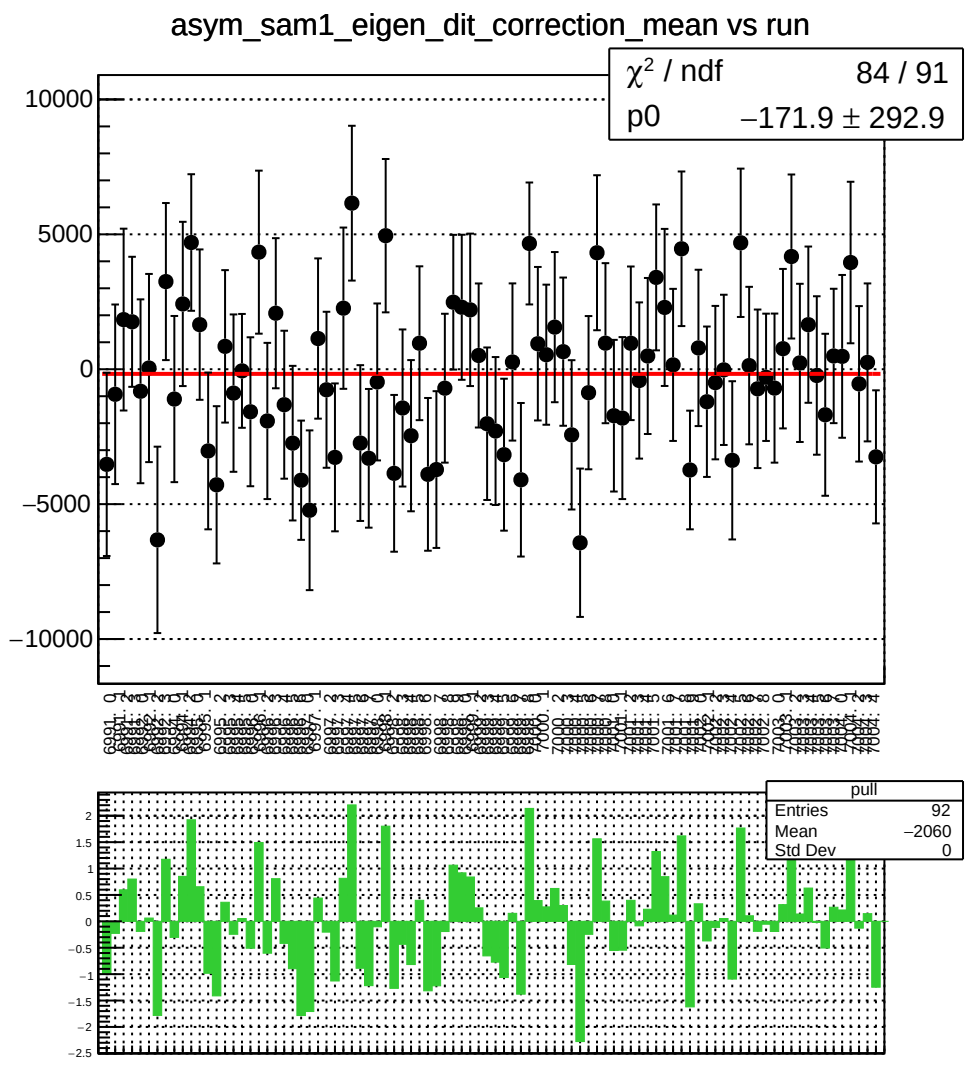

dit_asym_sam1_rms vs run
χ² / ndf 538.6 / 91
p0 79.63 ± 0.05995
86
84
82
80
78
76

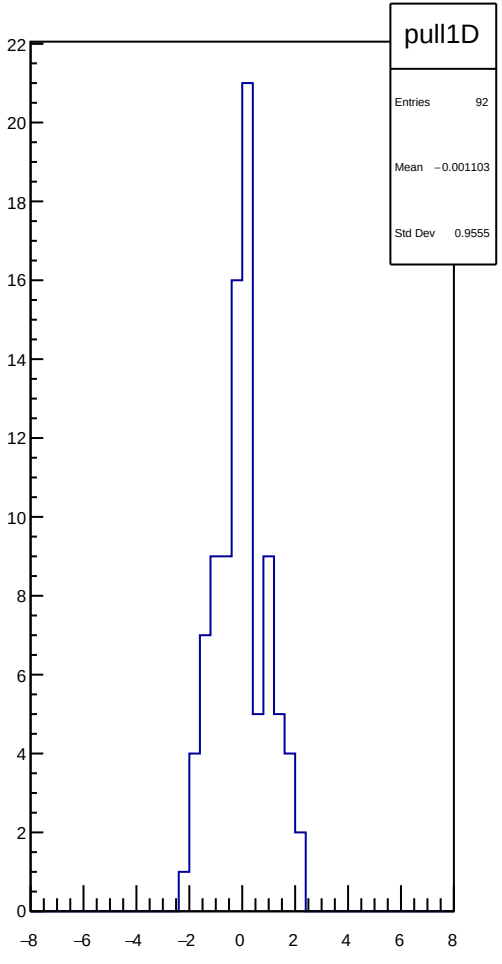

asym_sam1_dit_correction_mean vs run
χ² / ndf 84 / 91
p0 −171.9 ± 292.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −2060
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.001103
Std Dev 0.9555
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

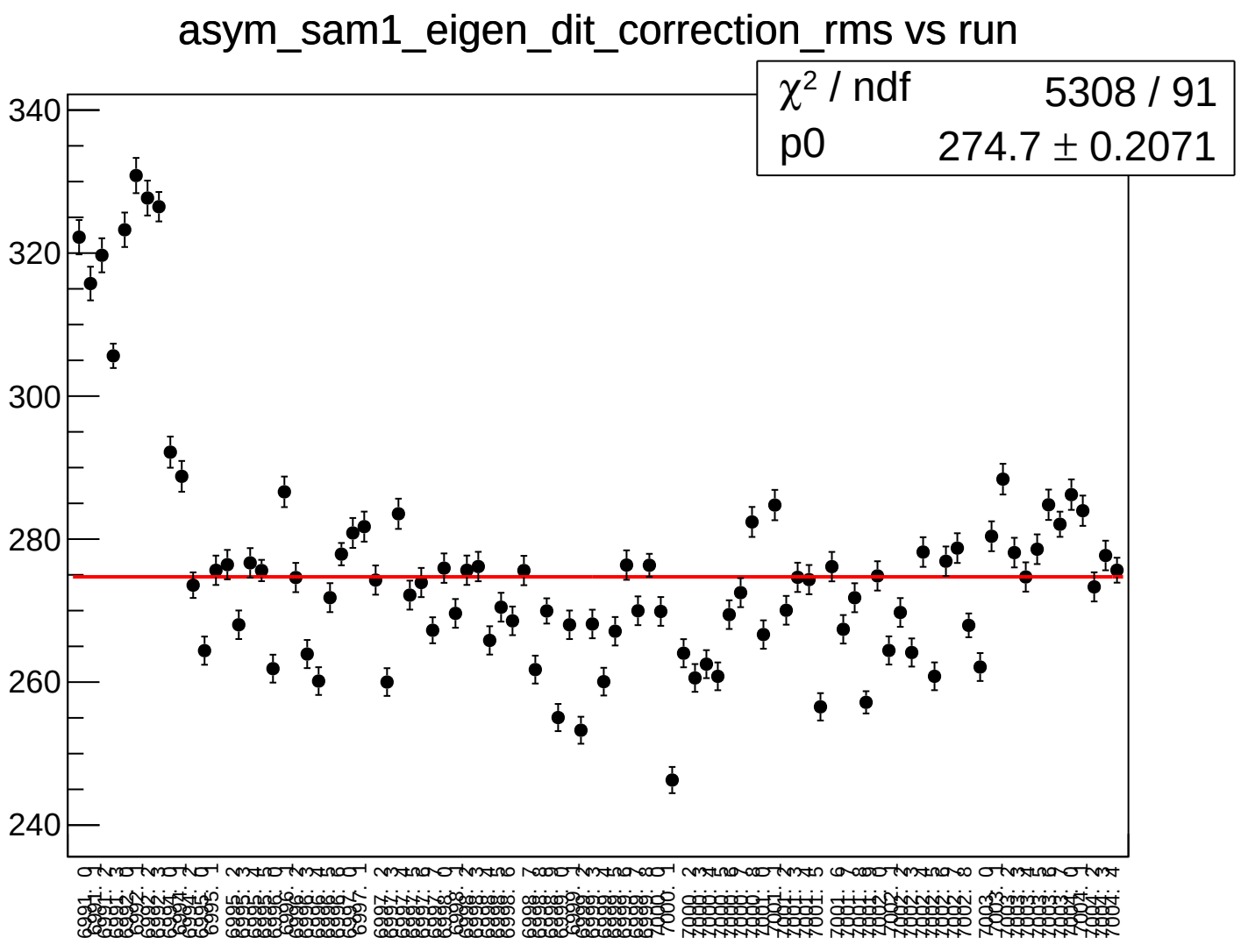

asym_sam1_dit_correction_rms vs run
χ² / ndf 5308 / 91
p0 274.7 ± 0.2071
340
320
300
280
260
240

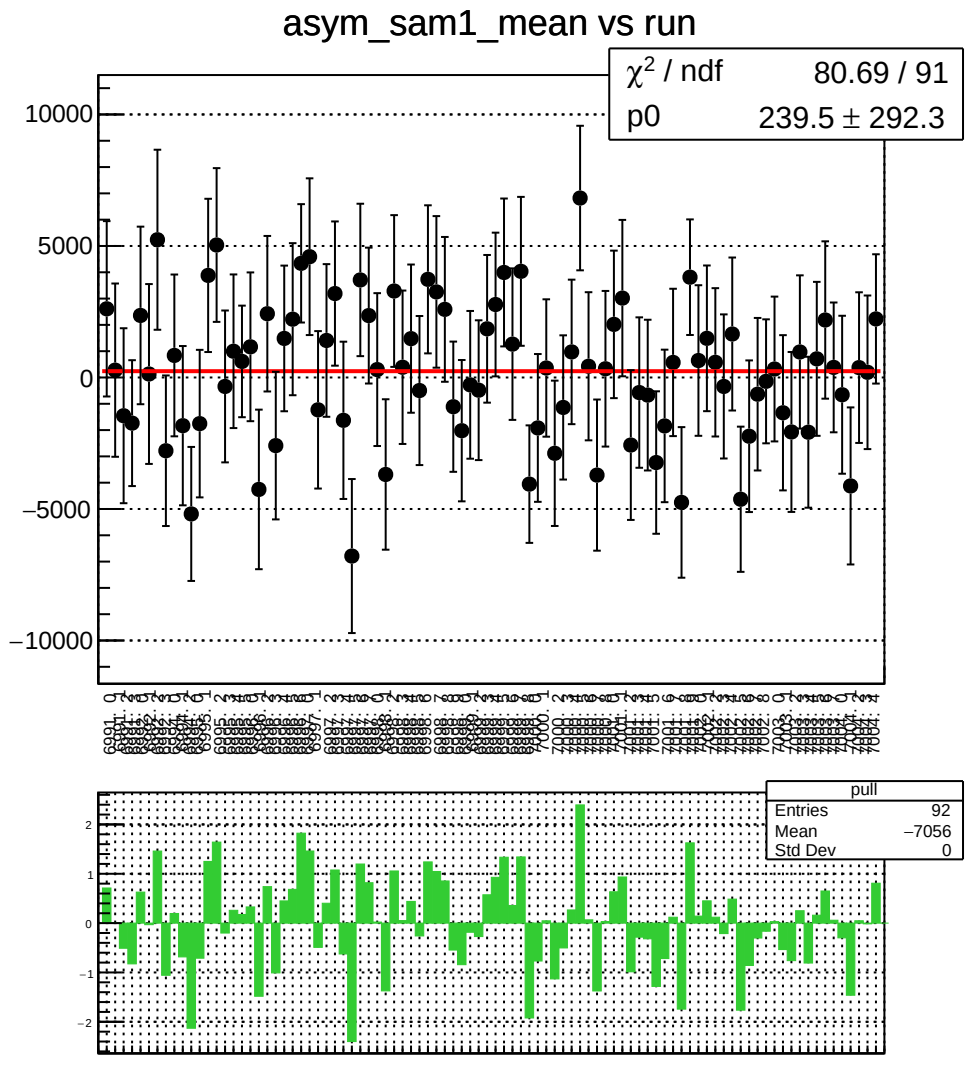

eigen_dit_asym_sam1_mean vs run
χ² / ndf 94.86 / 91
p0 72.65 ± 84.78
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 272.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006363
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

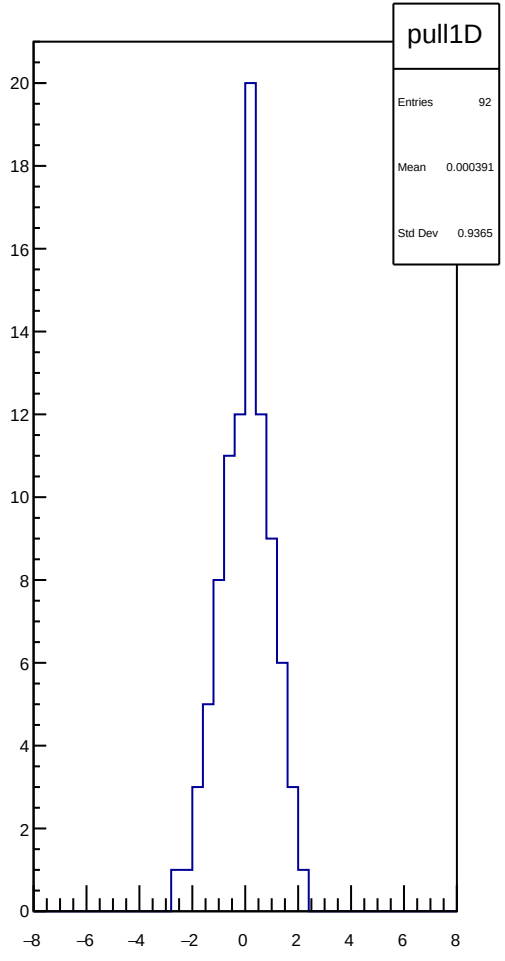

eigen_dit_asym_sam1_rms vs run
χ² / ndf 538.6 / 91
p0 79.63 ± 0.05995
86
84
82
80
78
76

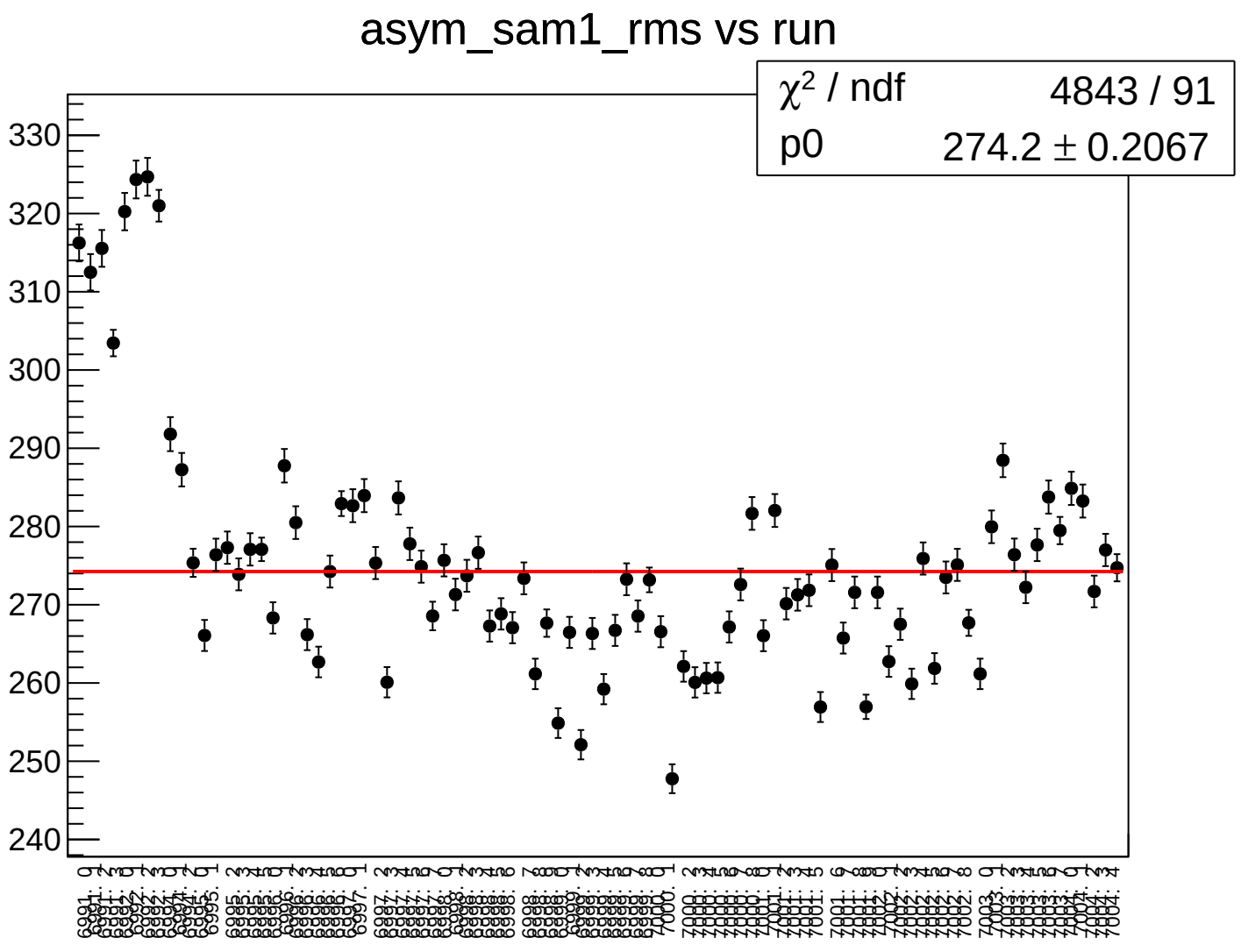

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 84 / 91
p0 −171.9 ± 292.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −2060
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

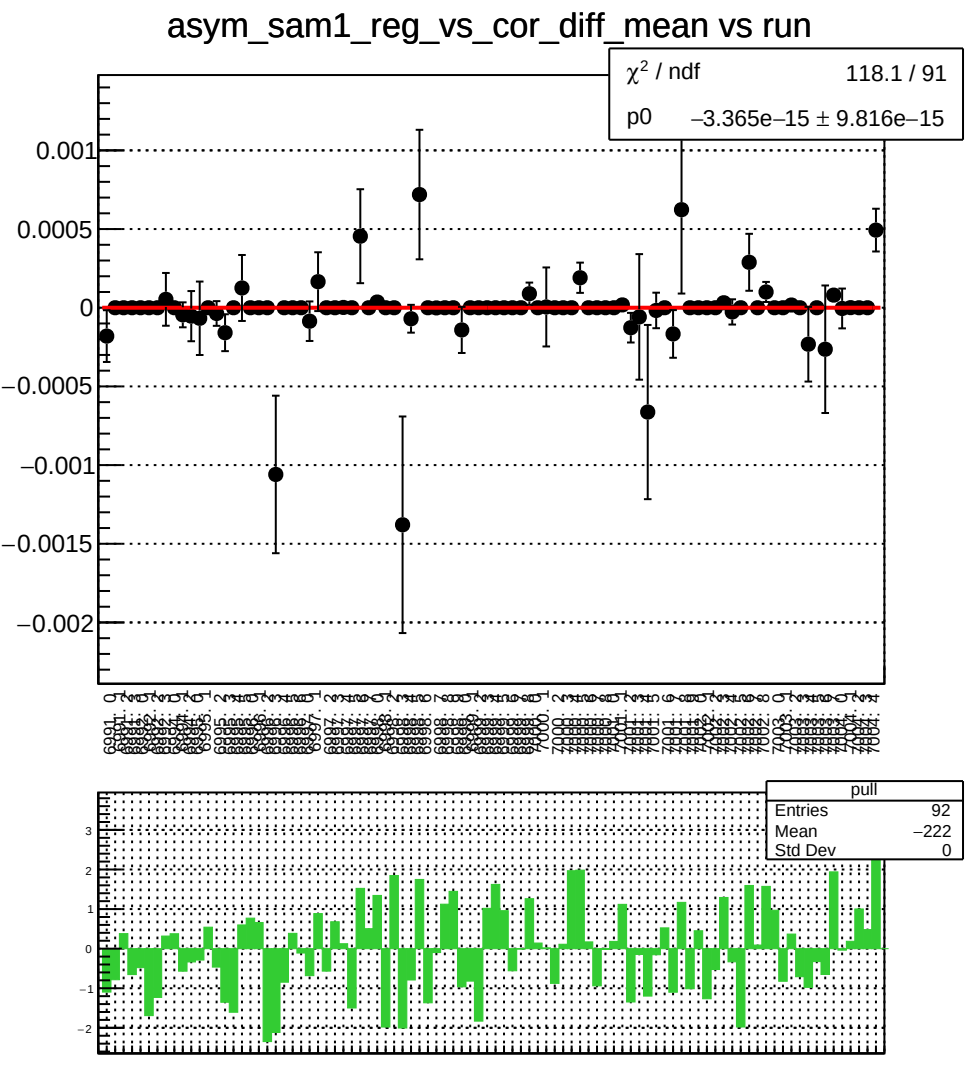

pull1D
Entries 92
Mean −0.001103
Std Dev 0.9555
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

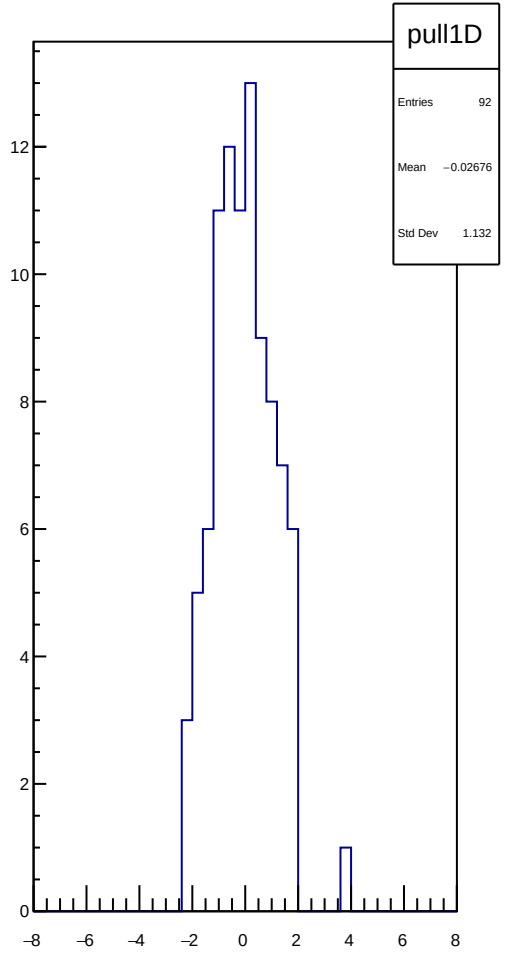

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 5308 / 91
p0 274.7 ± 0.2071
340
320
300
280
260
240

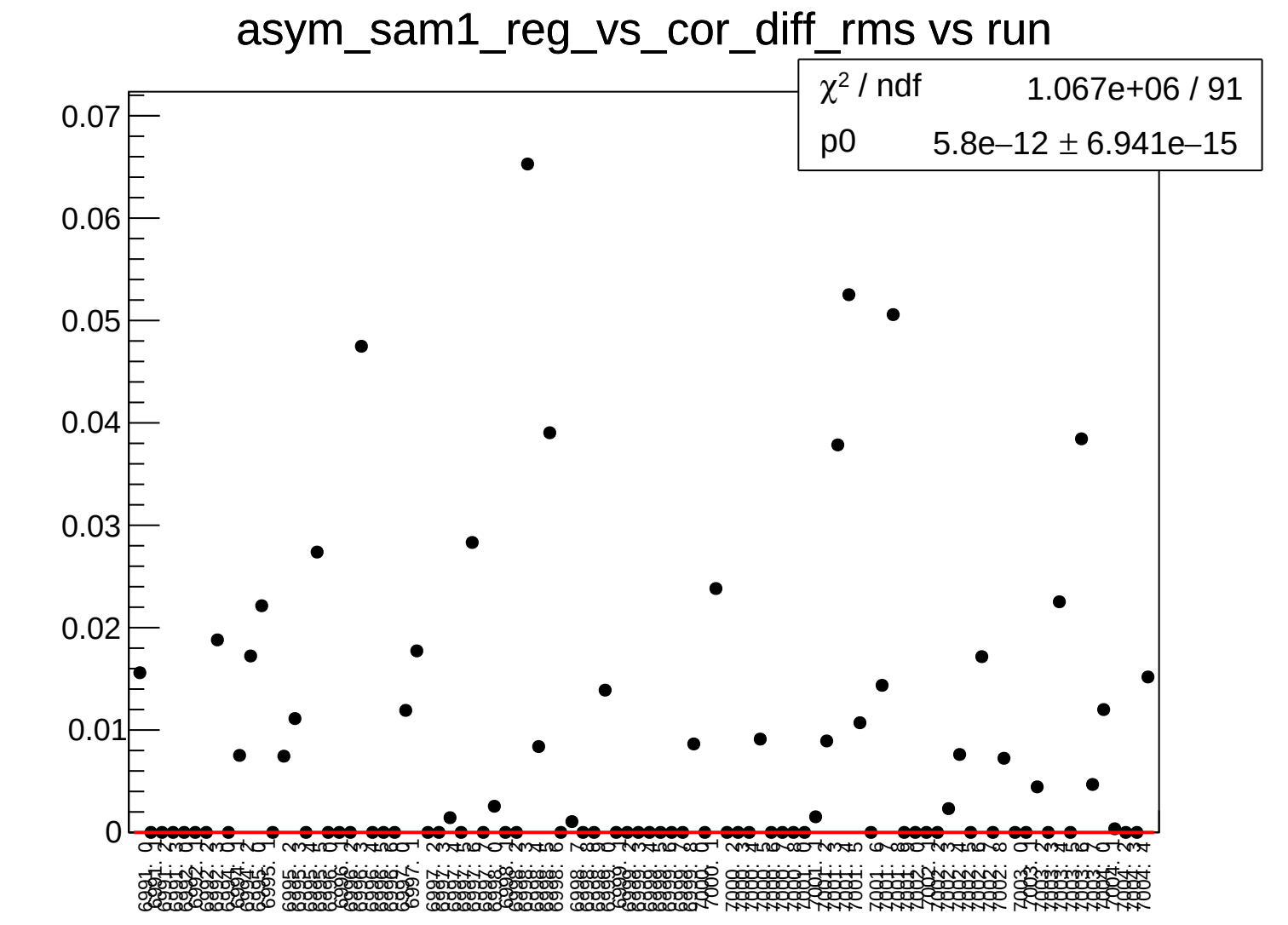

asym_sam1_mean vs run
χ² / ndf 80.69 / 91
p0 239.5 ± 292.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −7056
Std Dev 0
2
1
0
−1
−2

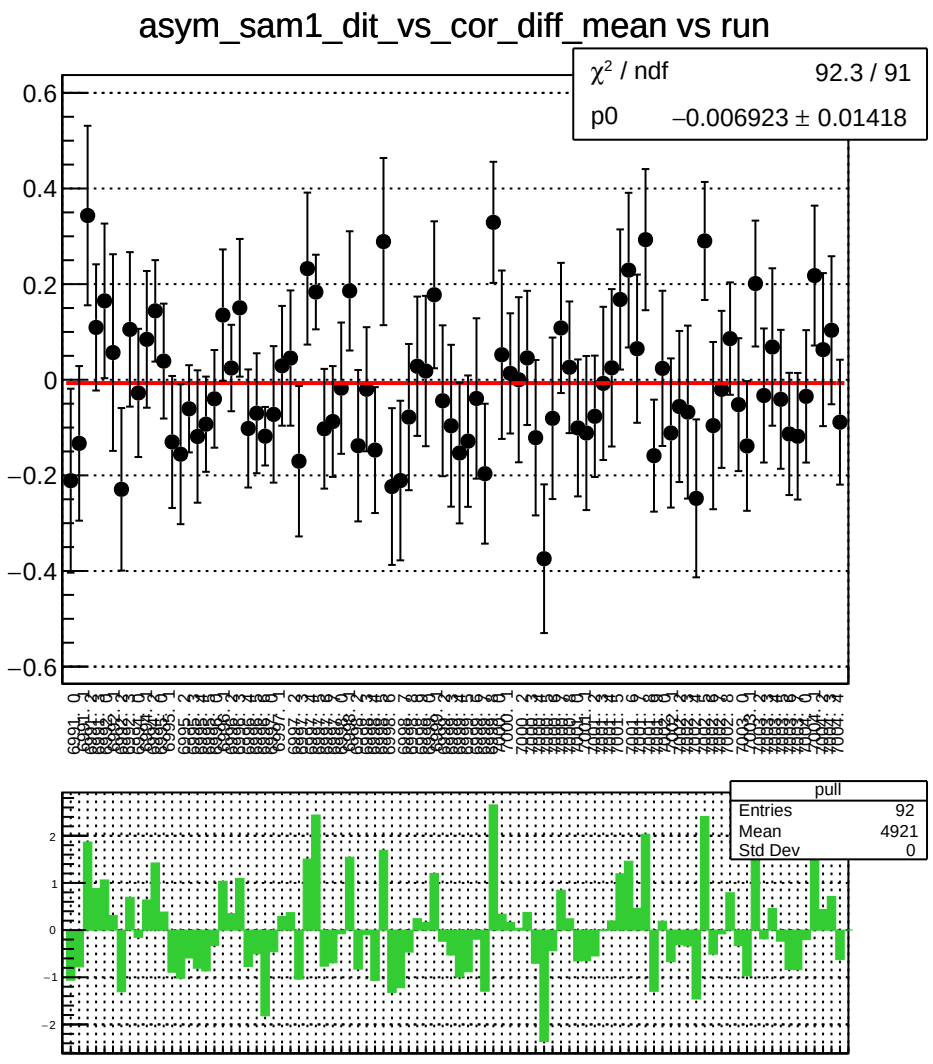

pull1D
Entries 92
Mean 0.000391
Std Dev 0.9365
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

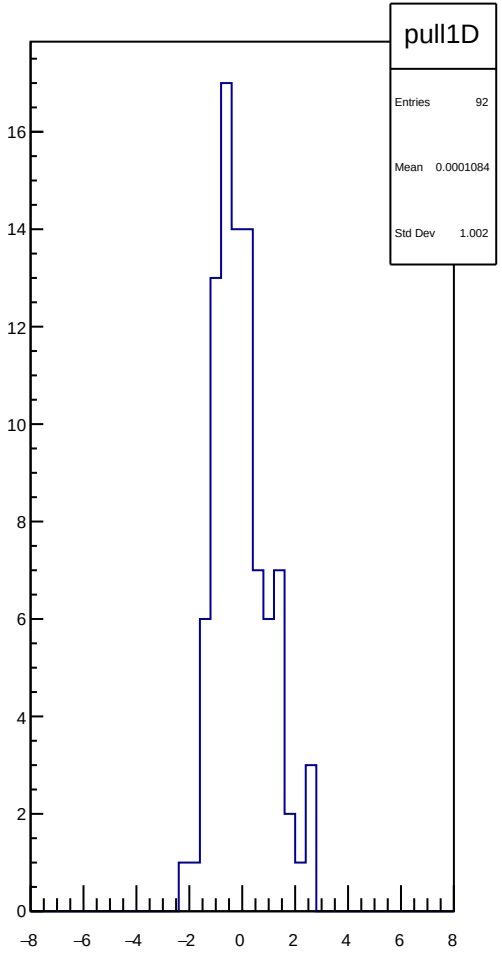

asym_sam1_rms vs run
χ² / ndf 4843 / 91
p0 274.2 ± 0.2067
330
320
310
300
290
280
270
260
250
240

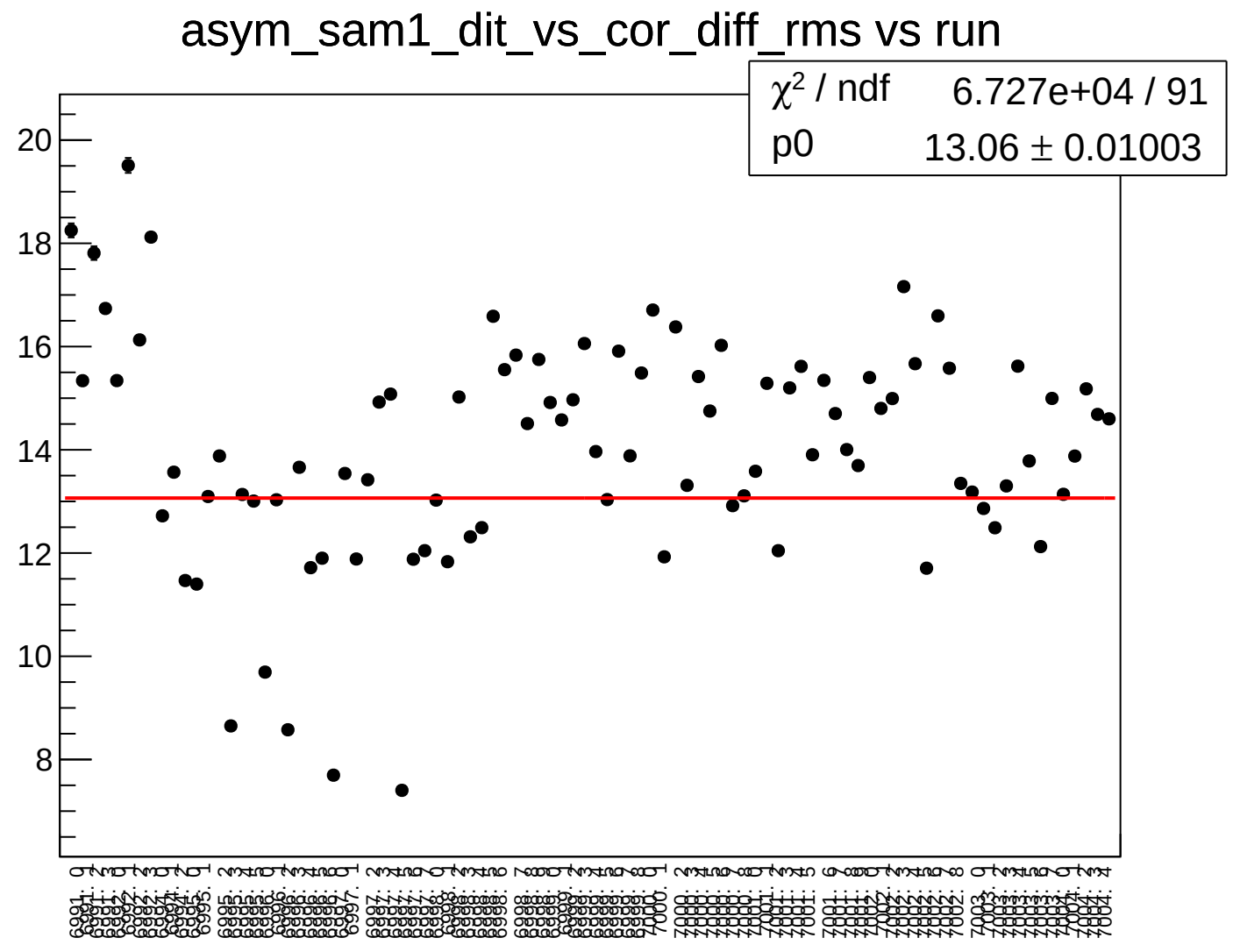

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 118.1 / 91
p0 −3.365e−15 ± 9.816e−15
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 92
Mean −222
Std Dev 0
3
2
1
0
−1
−2

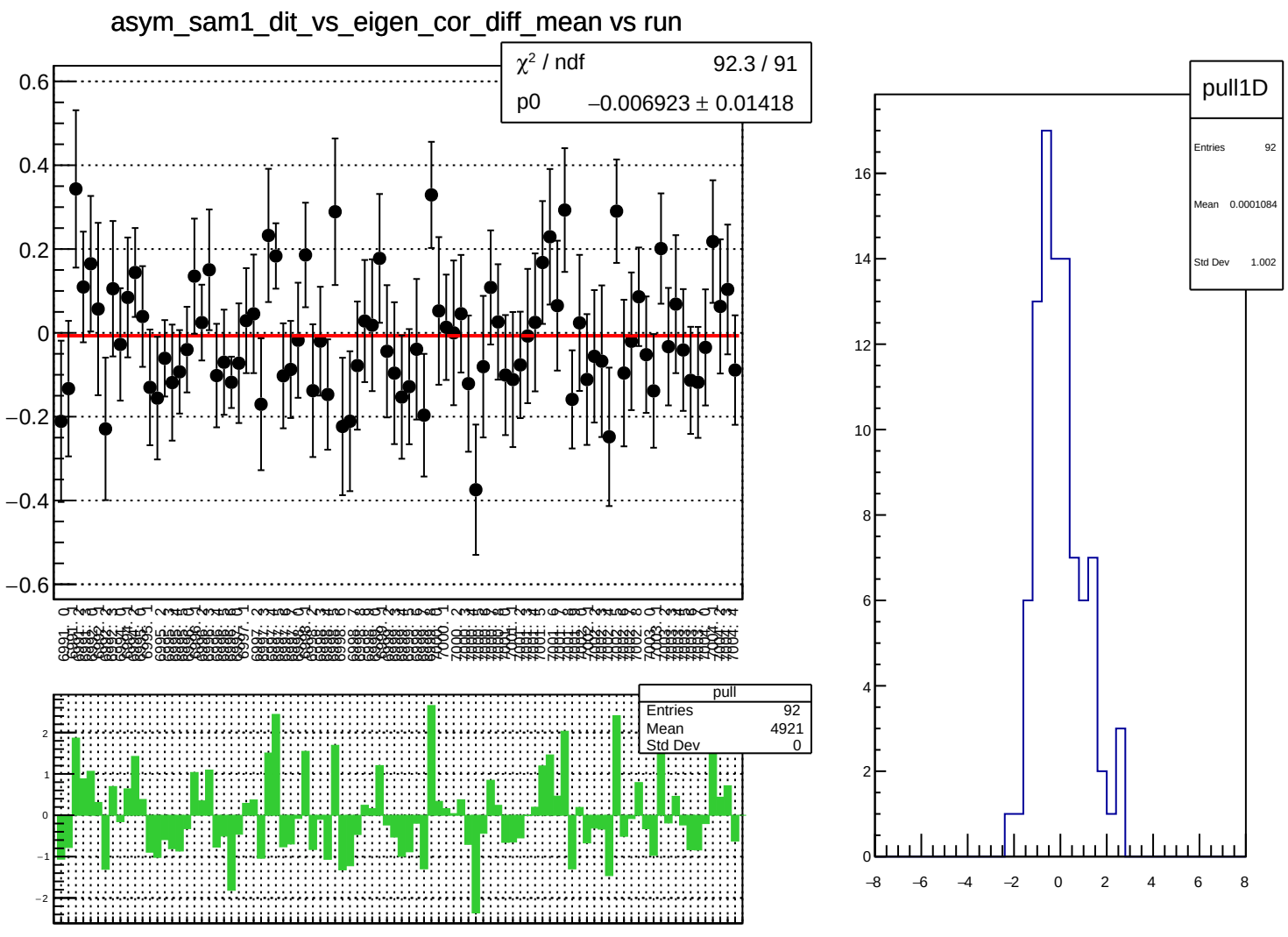

pull1D
Entries 92
Mean −0.02676
Std Dev 1.132
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

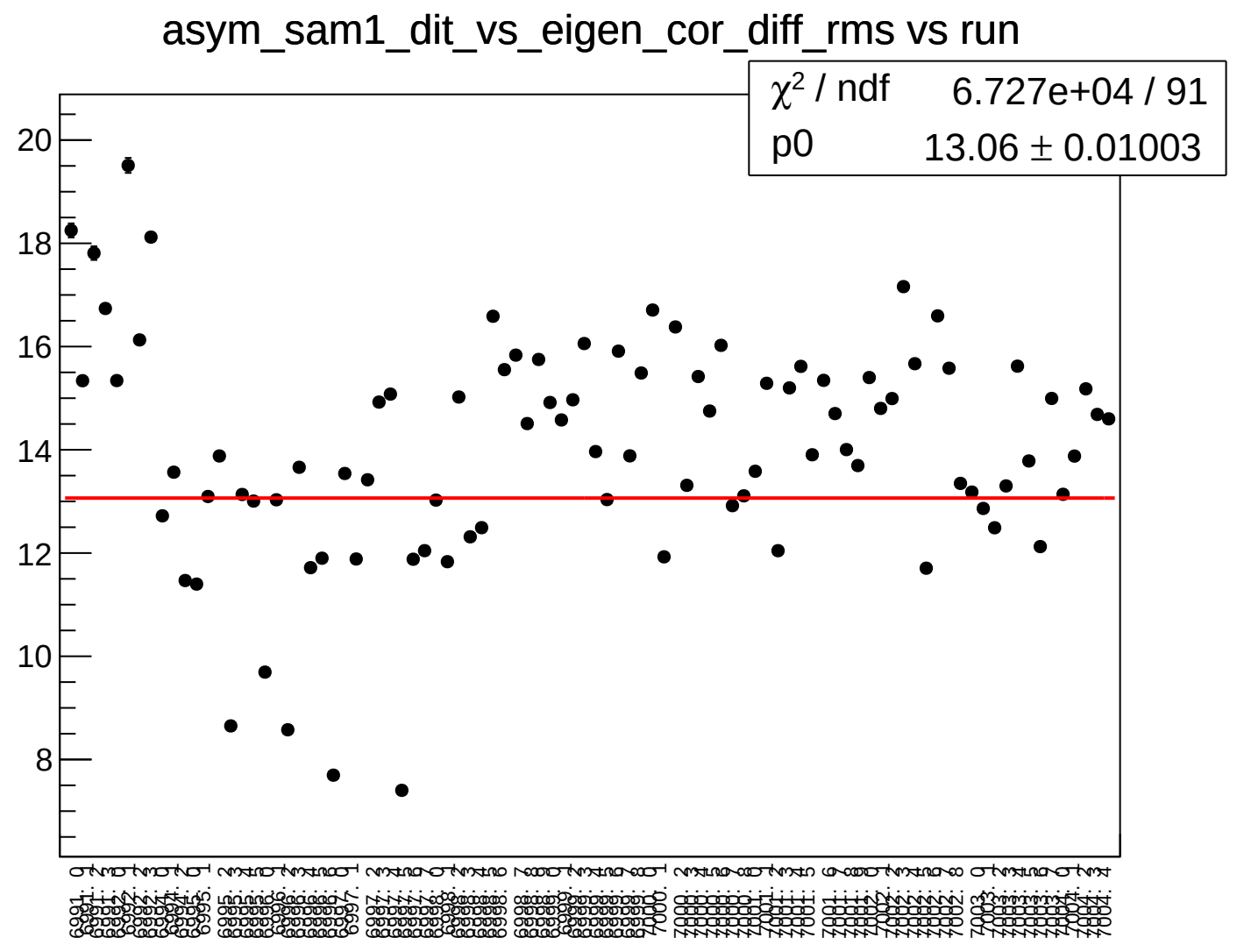

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 91
p0 5.8e−12 ± 6.941e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

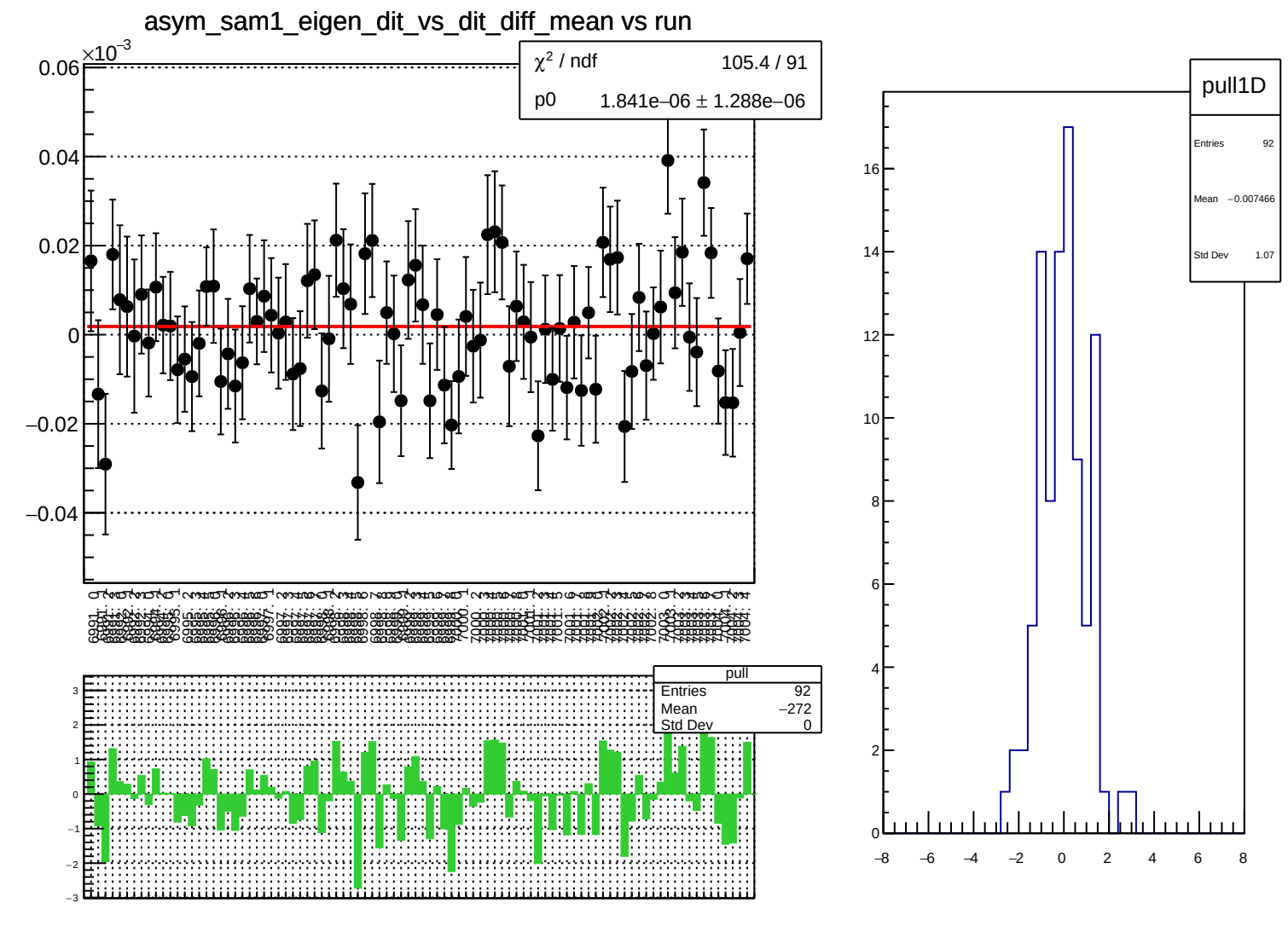

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 92.3 / 91
p0 −0.006923 ± 0.01418
pull
Entries 92
Mean 4921
Std Dev 0

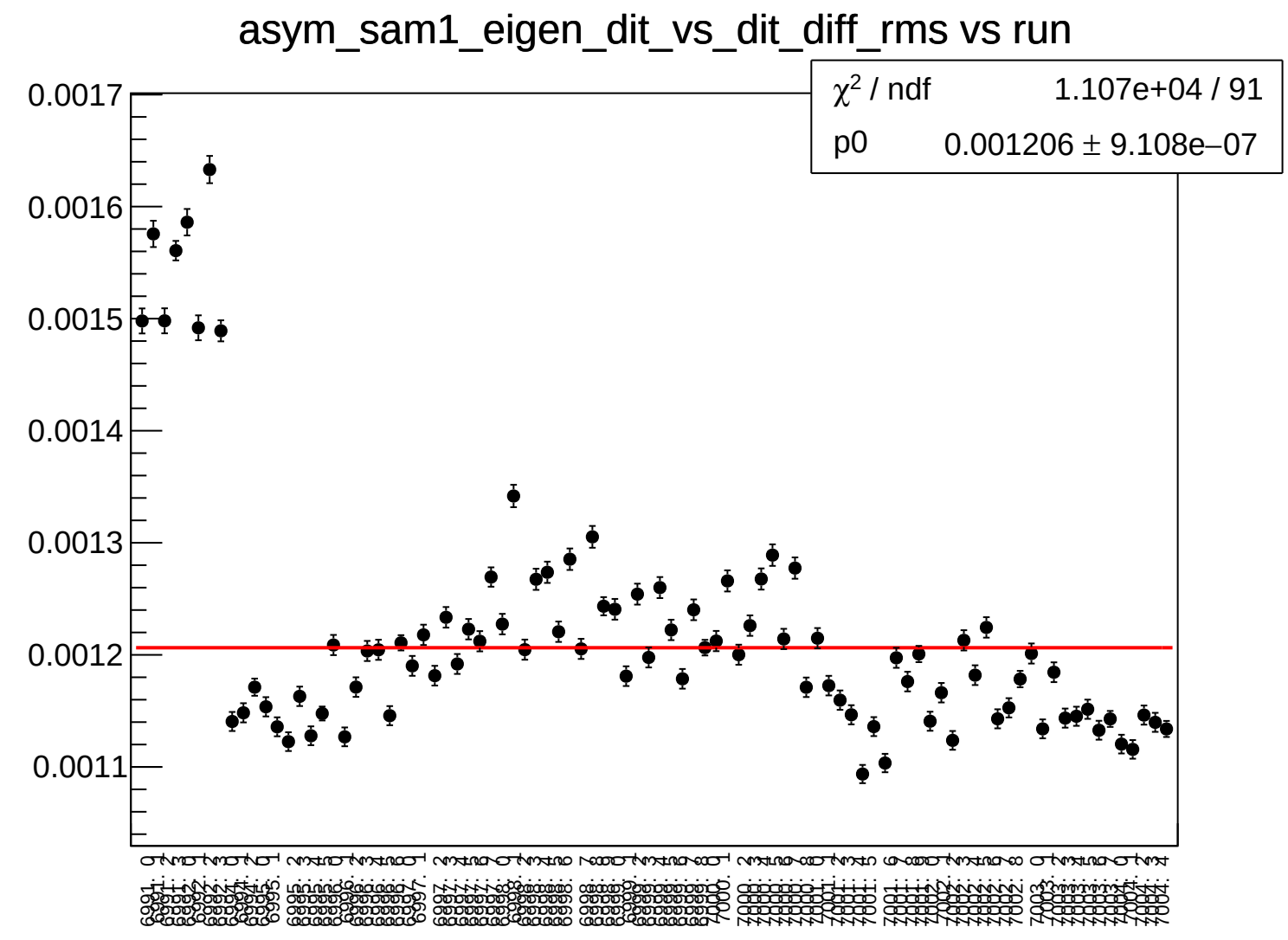

pull1D
Entries 92
Mean 0.0001084
Std Dev 1.002

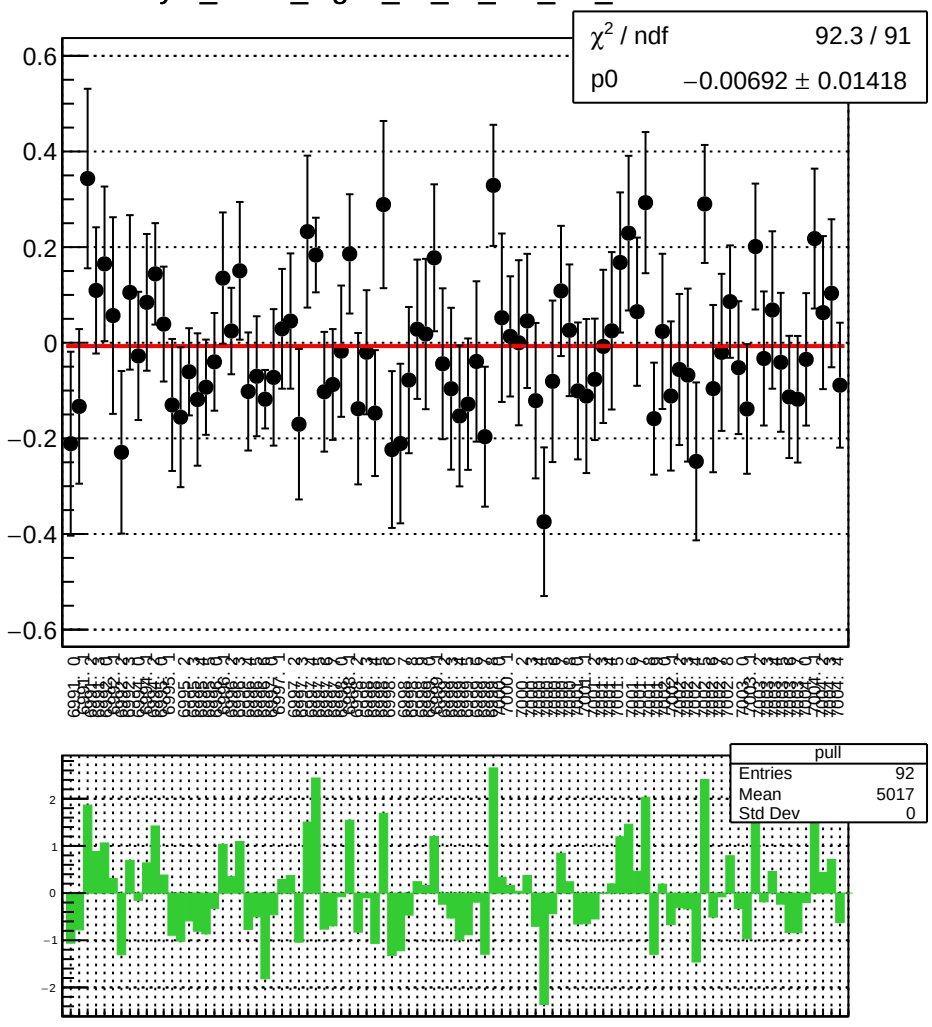

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 6.727e+04 / 91
p0 13.06 ± 0.01003
20
18
16
14
12
10
8

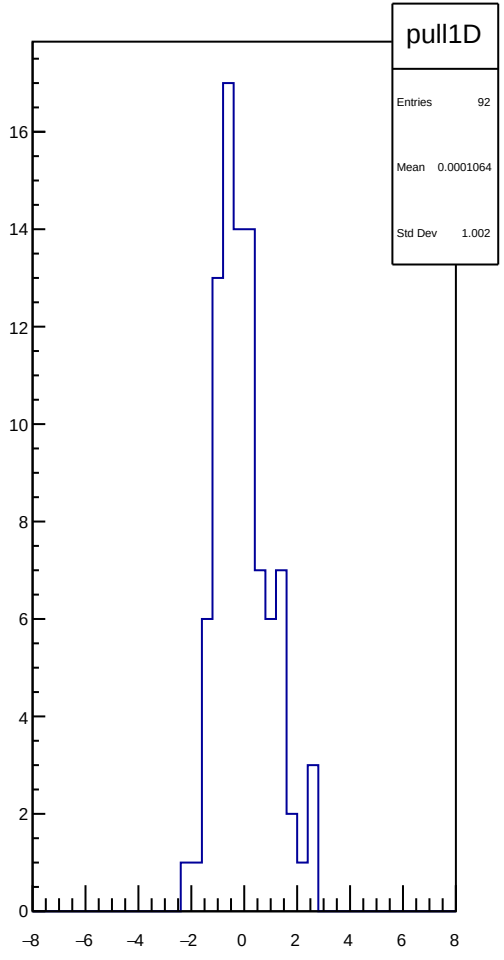

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.3 / 91
p0 −0.006923 ± 0.01418
pull
Entries 92
Mean 4921
Std Dev 0
pull1D
Entries 92
Mean 0.0001084
Std Dev 1.002

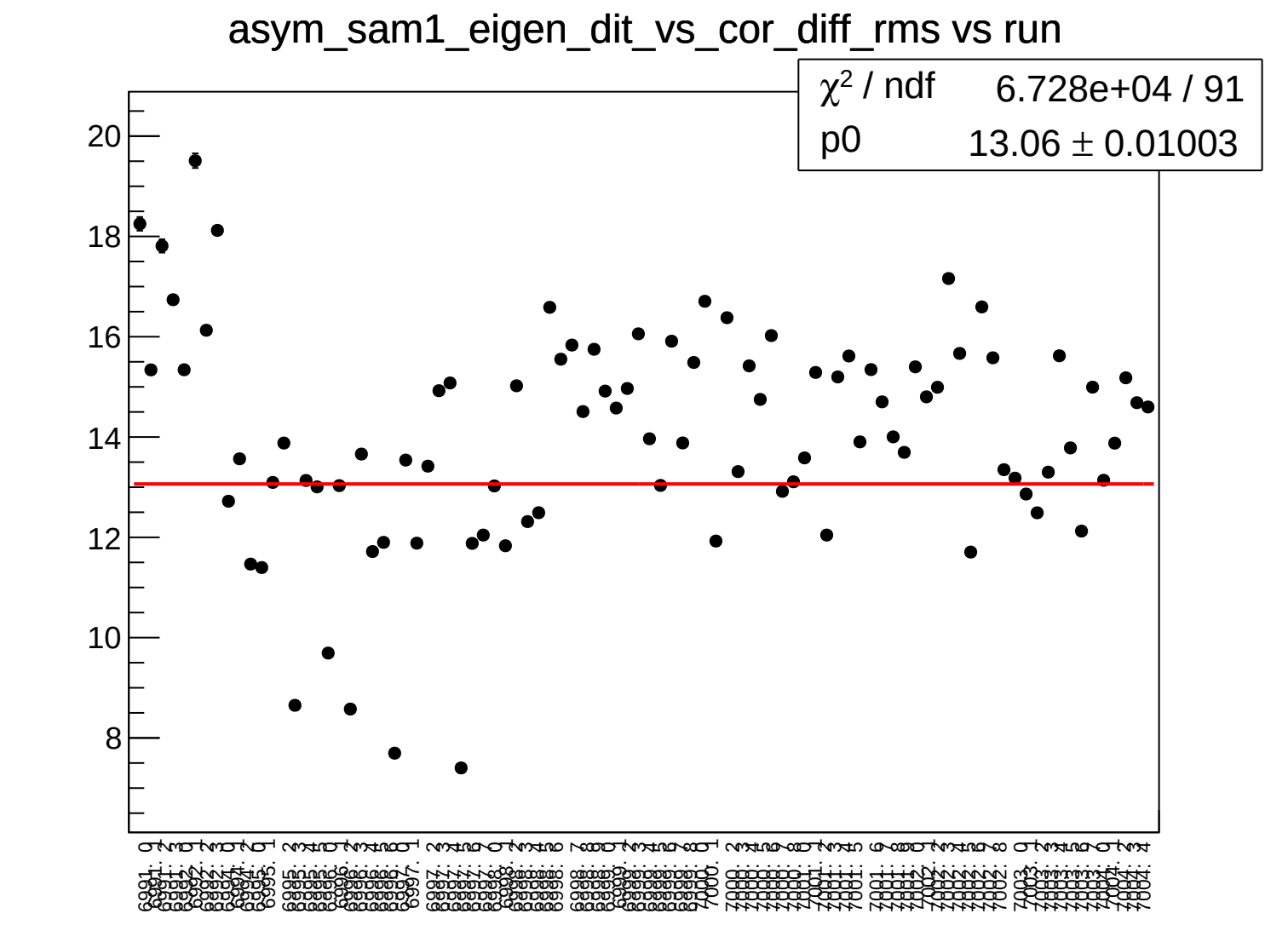

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.727e+04 / 91
p0 13.06 ± 0.01003
20
18
16
14
12
10
8

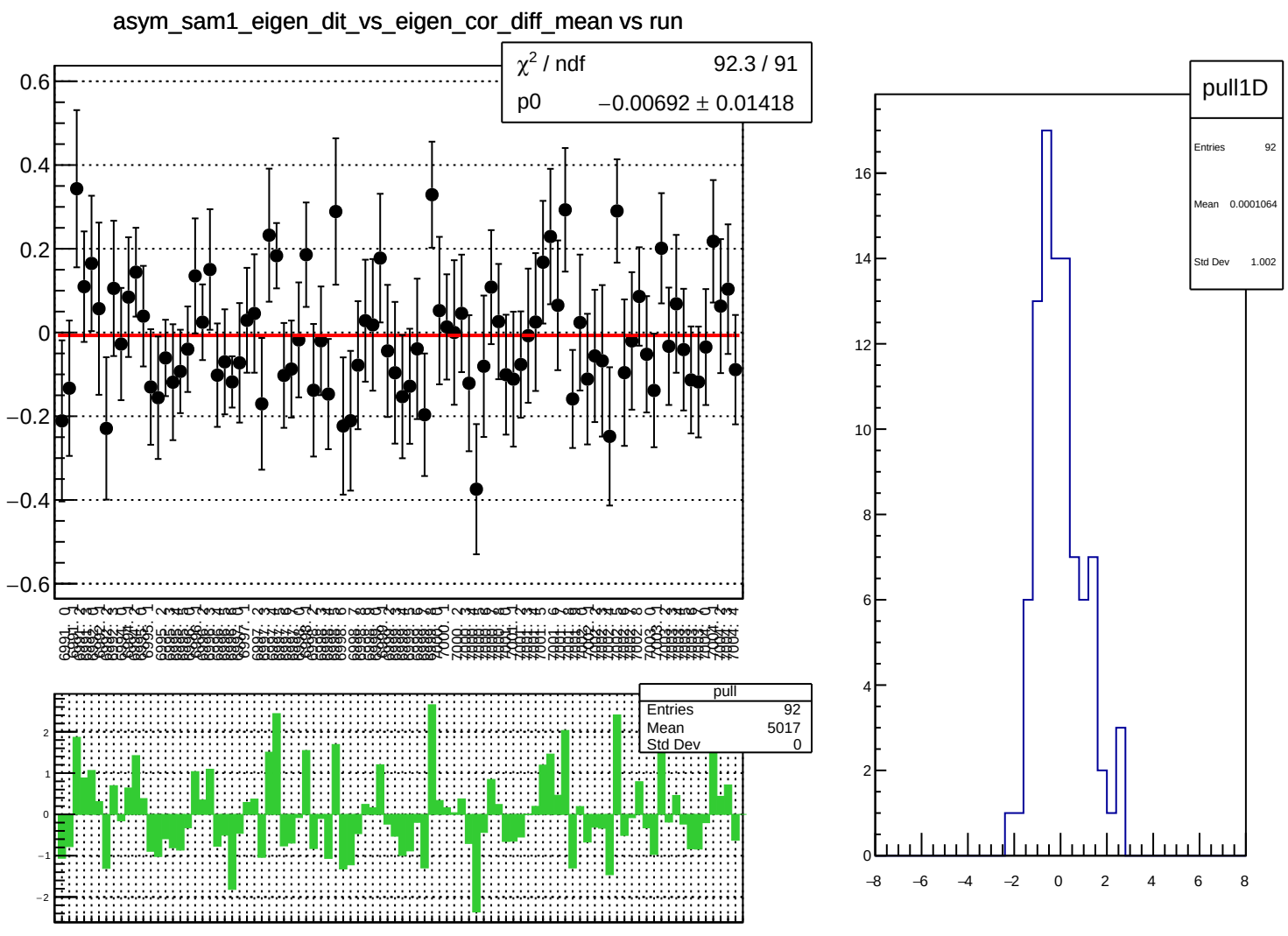

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.4 / 91
p0 1.841e−06 ± 1.288e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean −272
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.007466
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

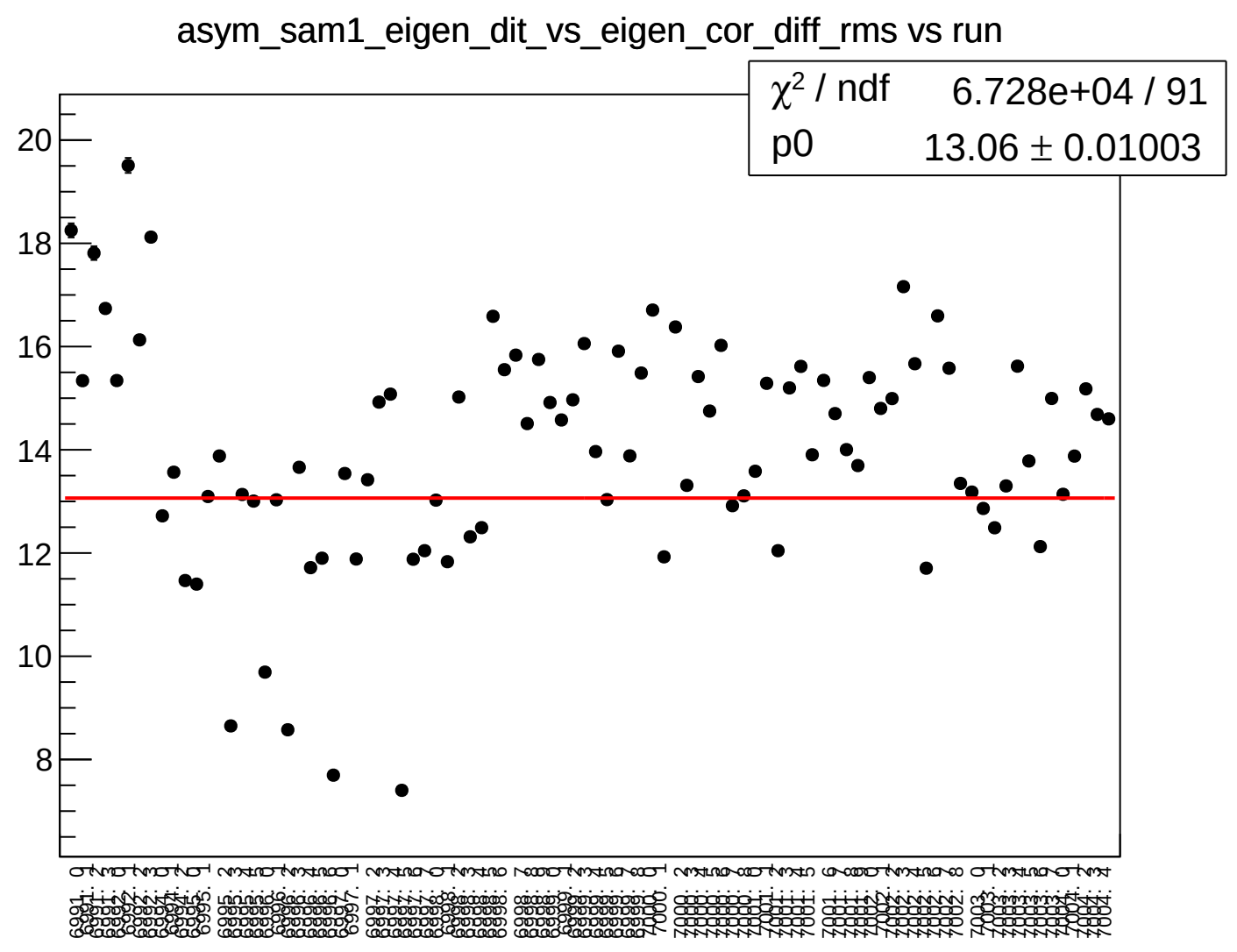

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.107e+04 / 91
p0 0.001206 ± 9.108e−07
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

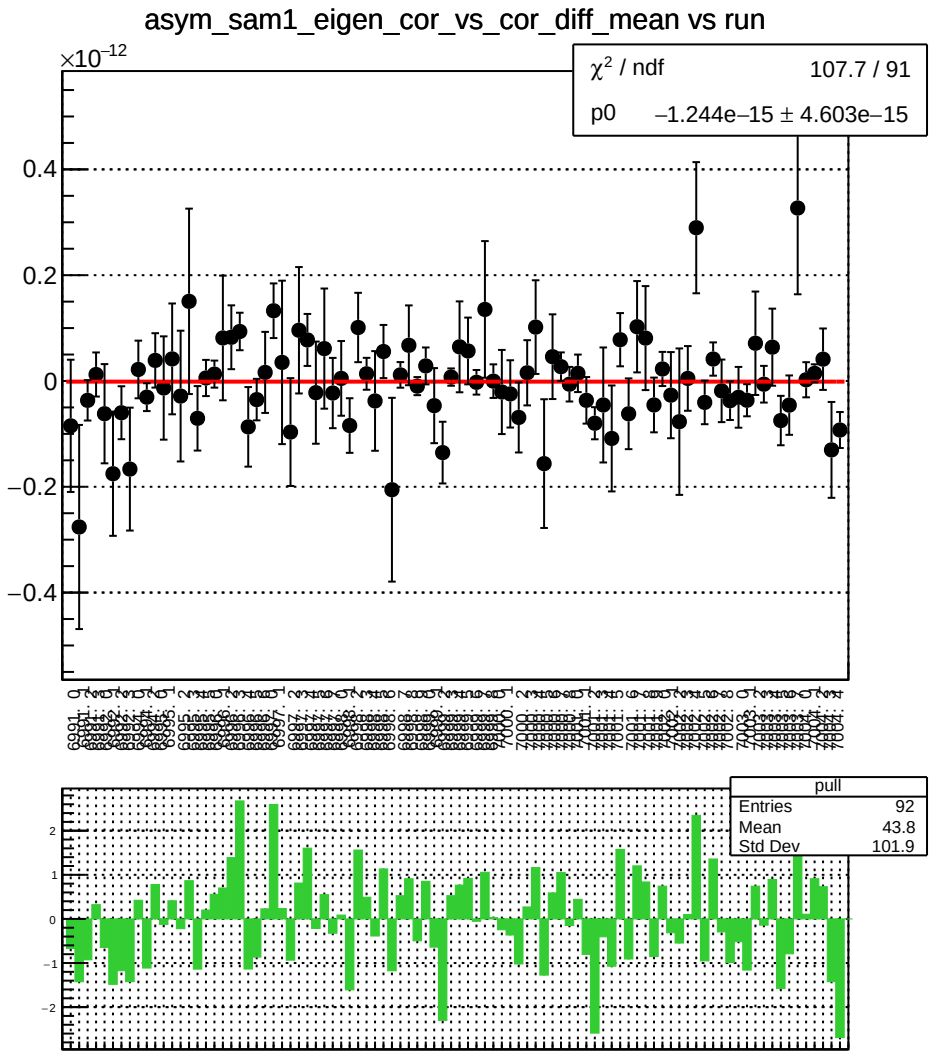

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.3 / 91
p0 −0.00692 ± 0.01418
pull
Entries 92
Mean 5017
Std Dev 0

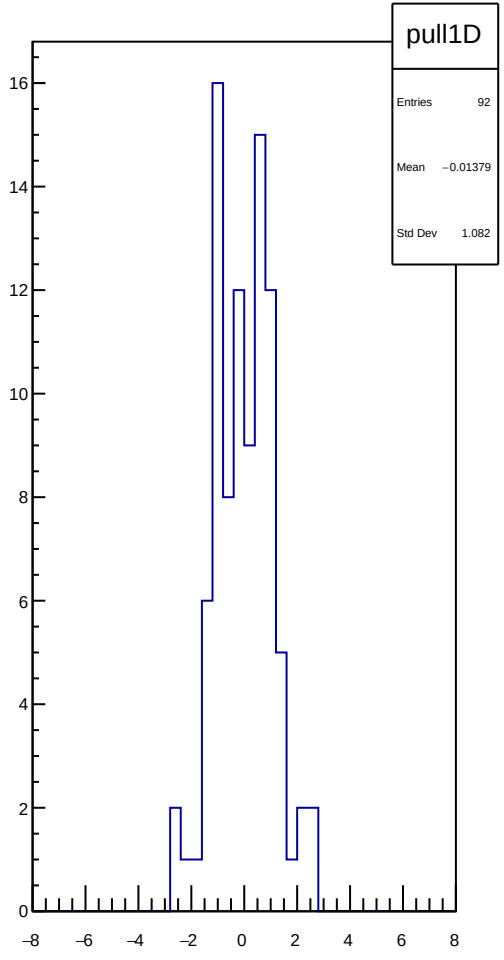

pull1D
Entries 92
Mean 0.0001064
Std Dev 1.002

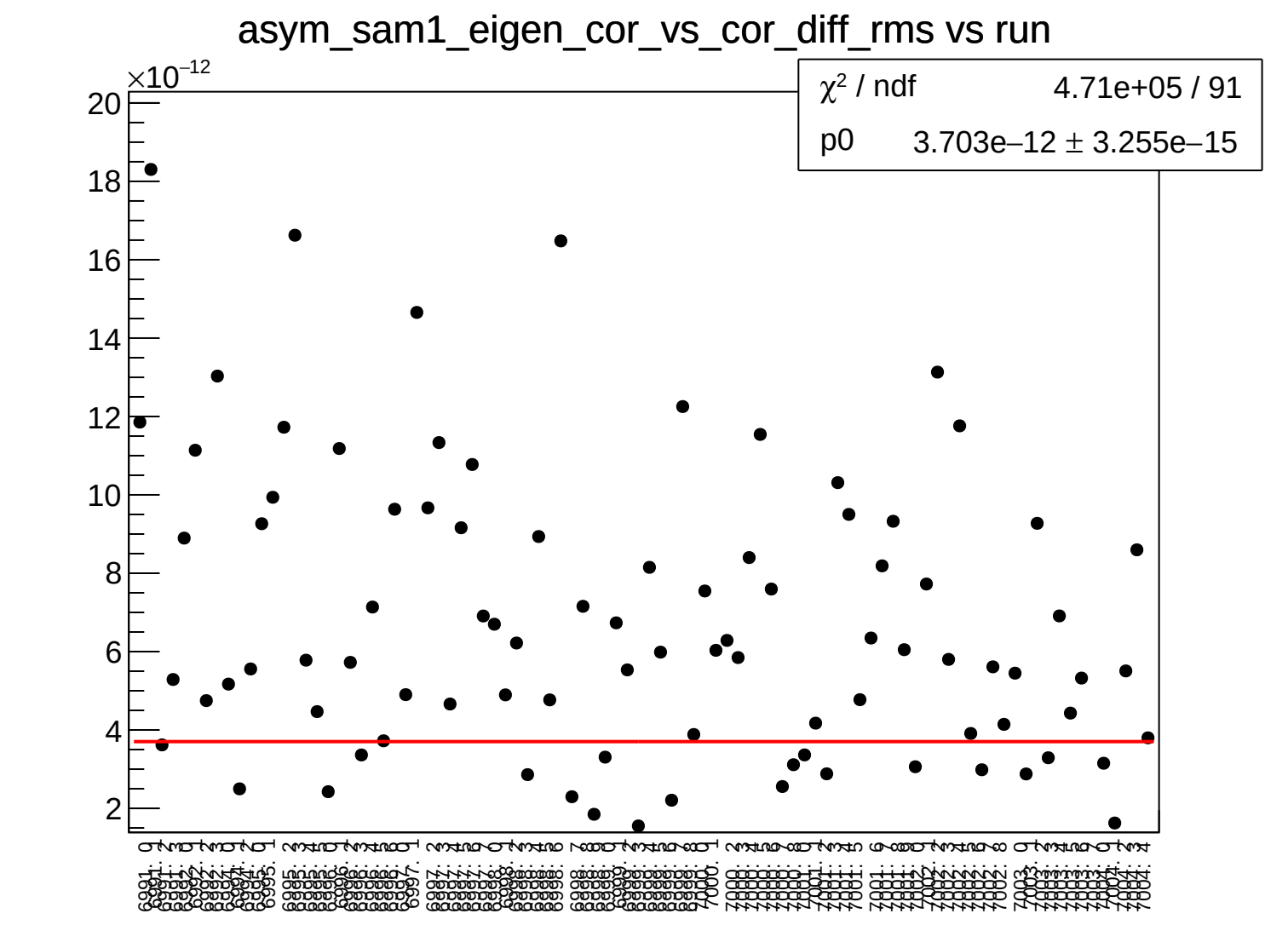

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.728e+04 / 91
p0 13.06 ± 0.01003
20
18
16
14
12
10
8

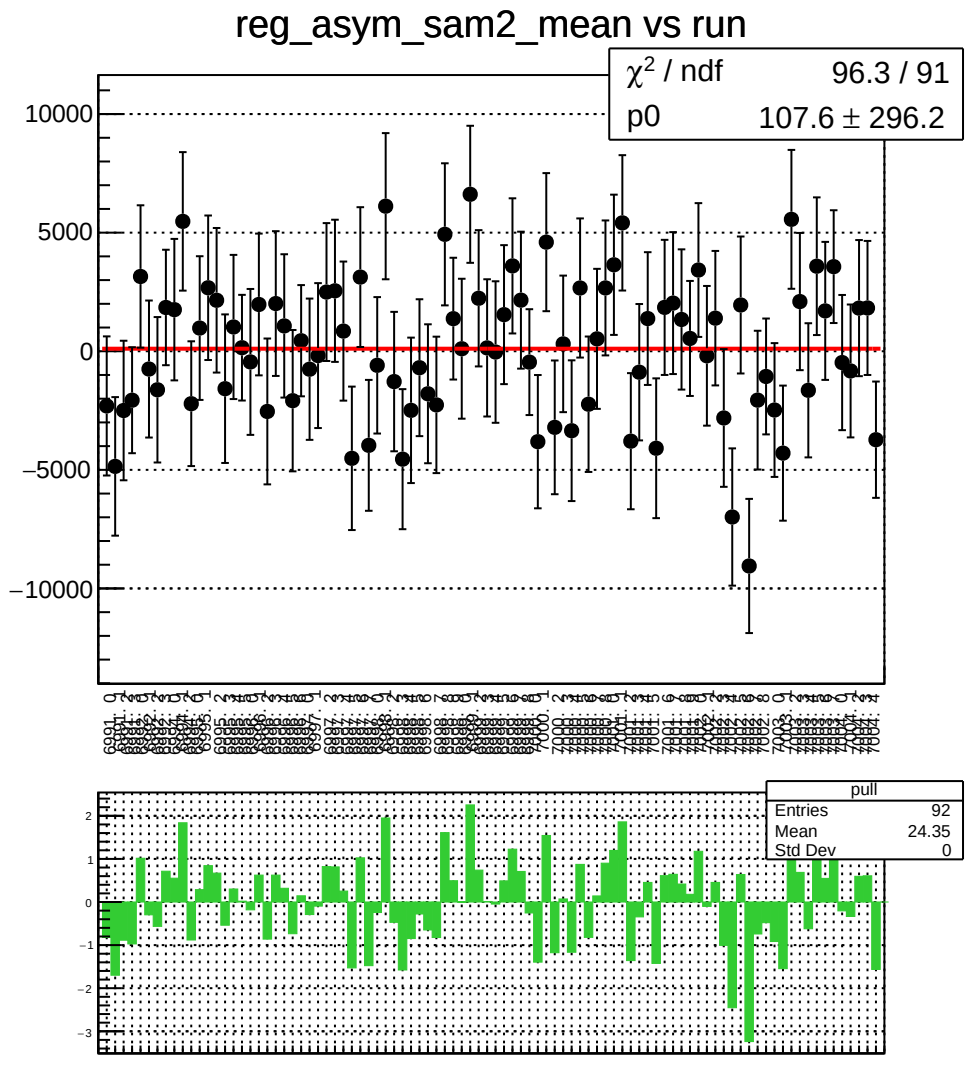

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.3 / 91
p0 −0.00692 ± 0.01418
pull
Entries 92
Mean 5017
Std Dev 0
pull1D
Entries 92
Mean 0.0001064
Std Dev 1.002

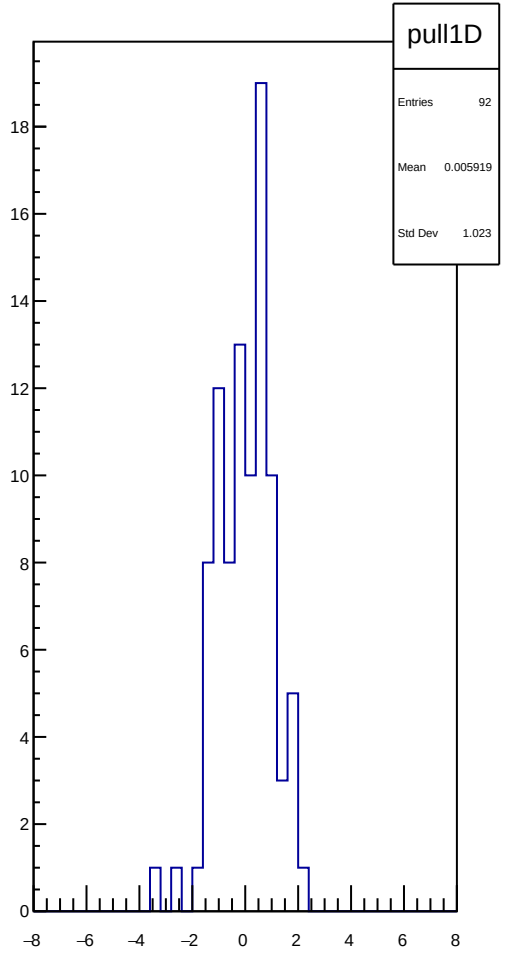

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.728e+04 / 91
p0 13.06 ± 0.01003
20
18
16
14
12
10
8

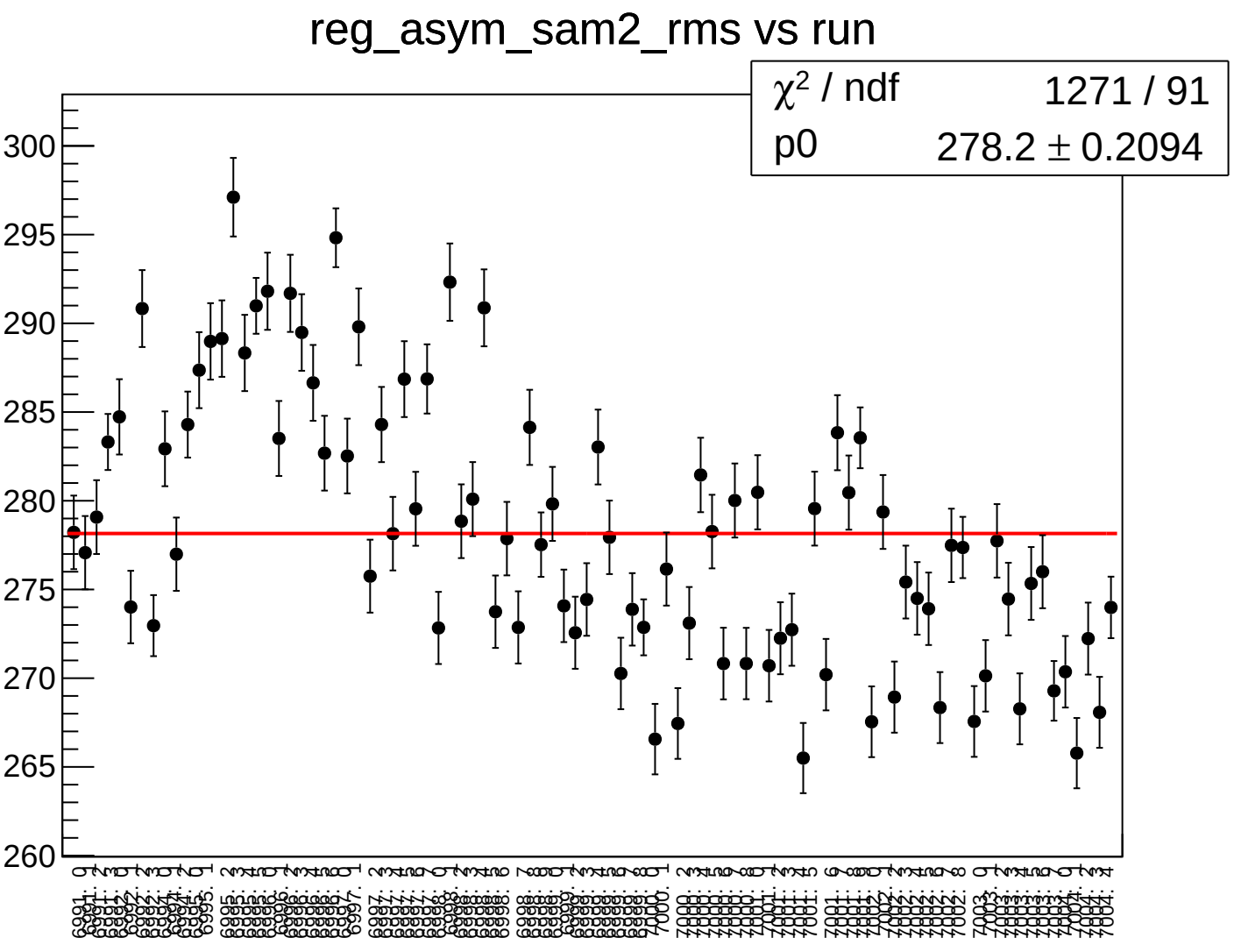

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.7 / 91
p0 −1.244e−15 ± 4.603e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 43.8
Std Dev 101.9
2
1
0
−1

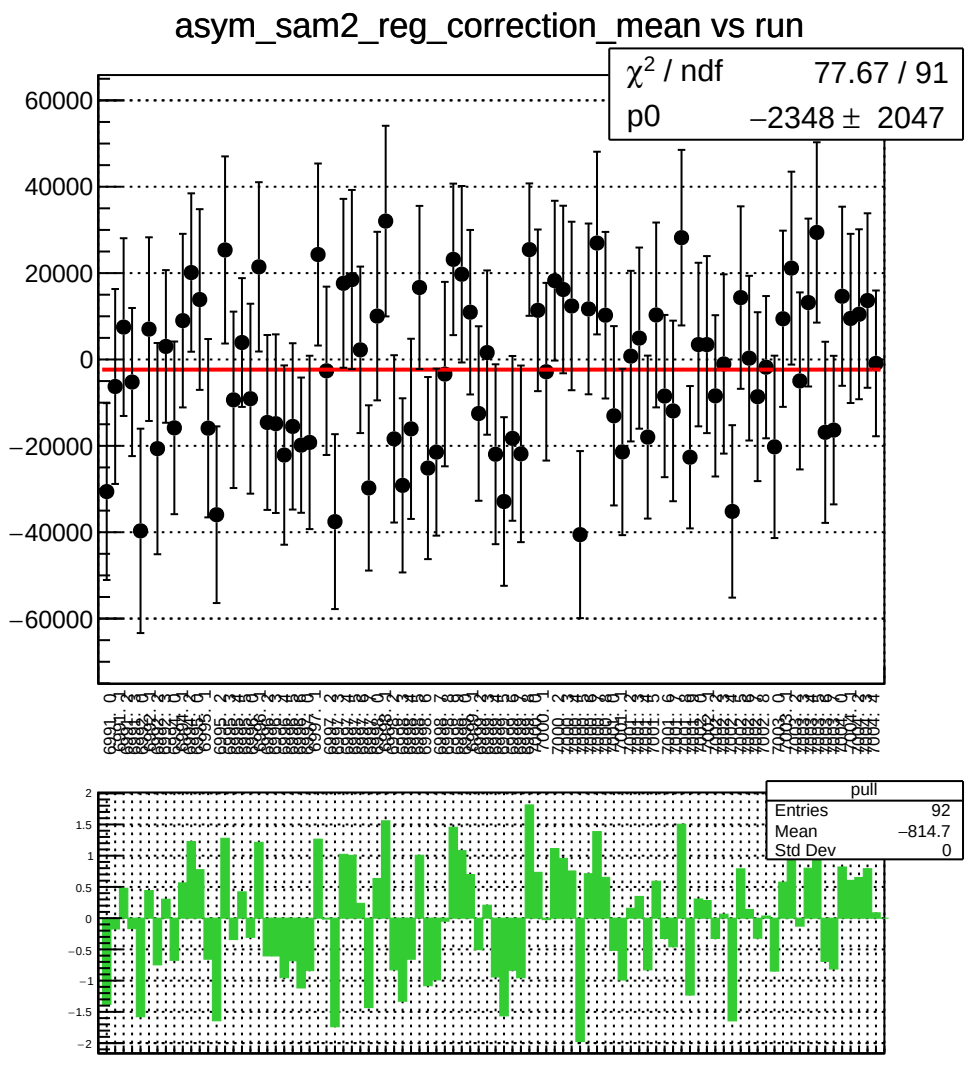

pull1D
Entries 92
Mean −0.01379
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

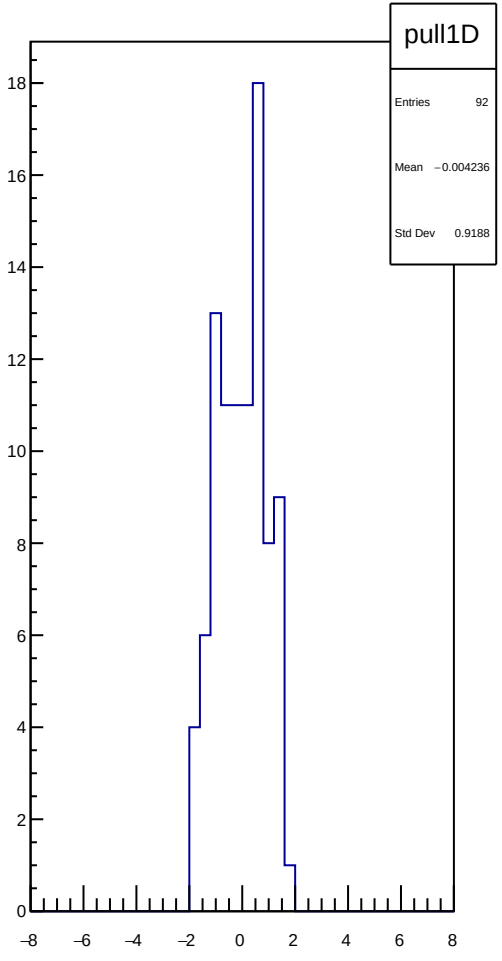

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.71e+05 / 91
p0 3.703e−12 ± 3.255e−15
20
18
16
14
12
10
8
6
4
2

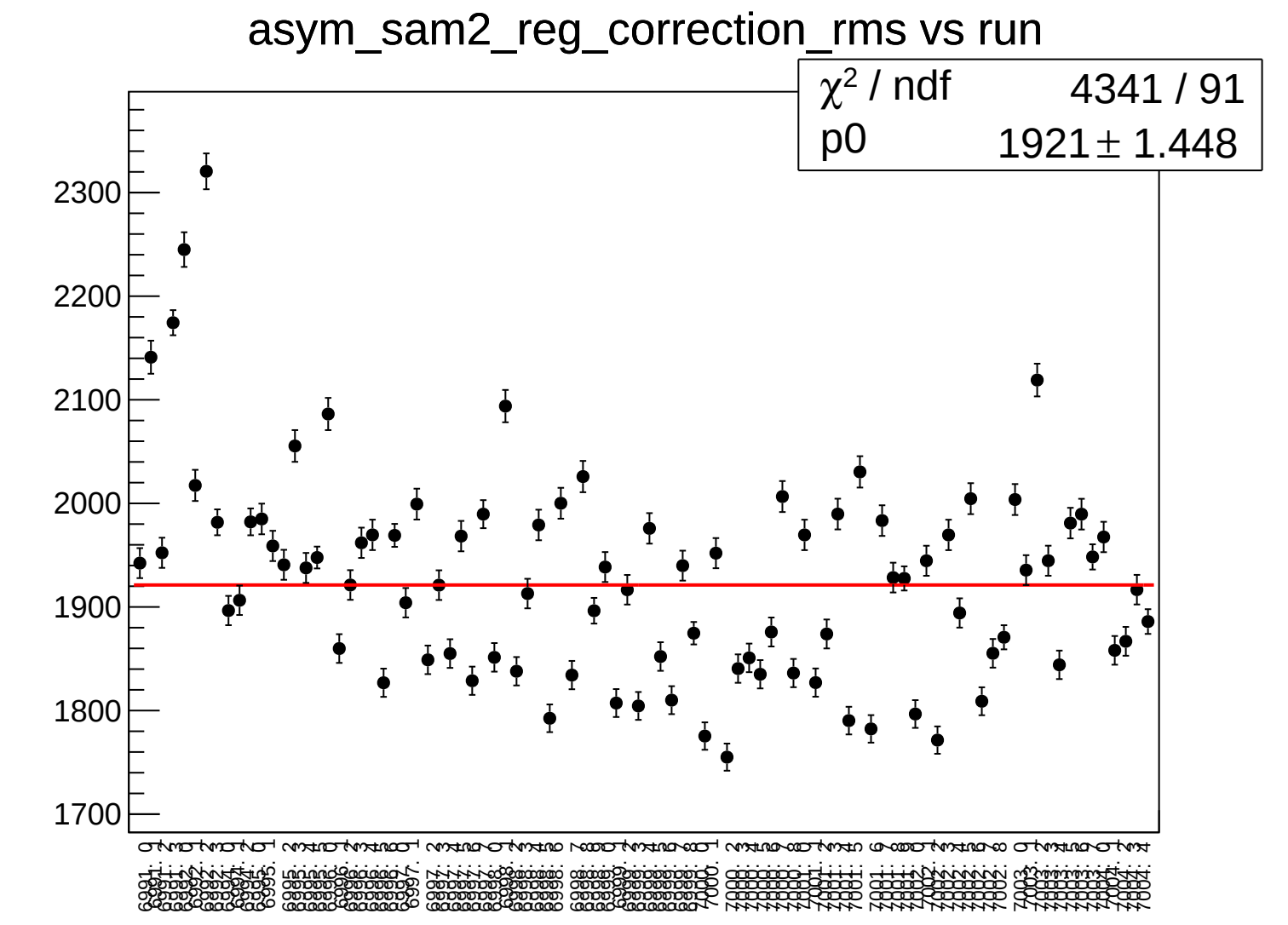

reg_asym_sam2_mean vs run
χ² / ndf 96.3 / 91
p0 107.6 ± 296.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 24.35
Std Dev 0
2
1
0
−1
−2
−3

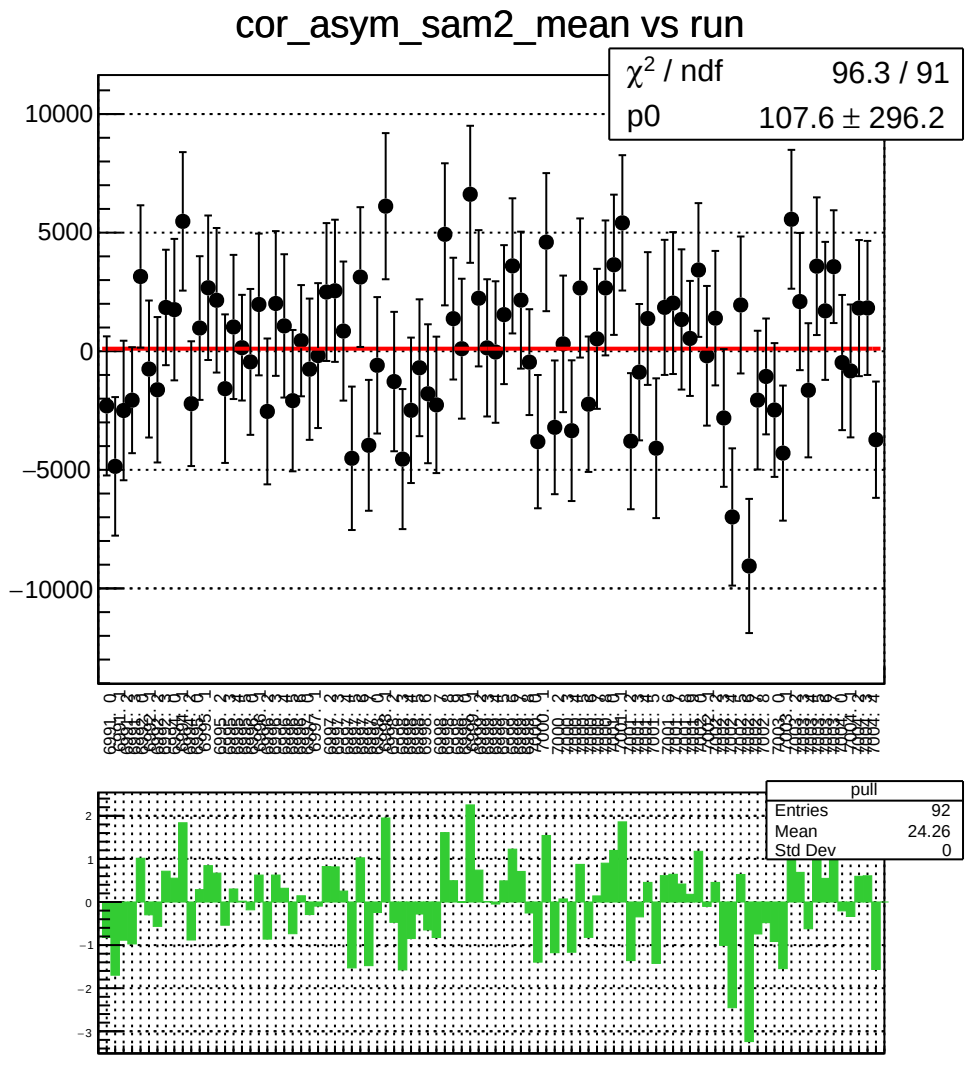

pull1D
Entries 92
Mean 0.005919
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

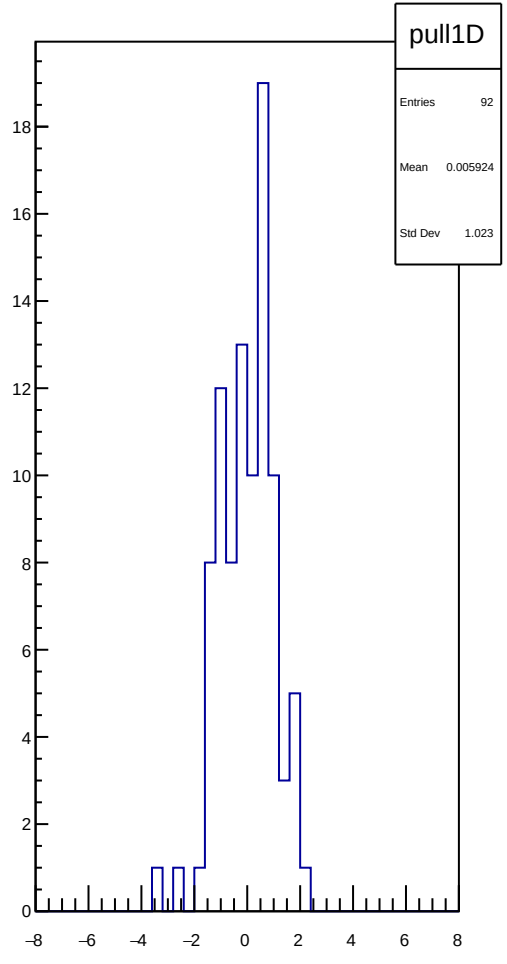

reg_asym_sam2_rms vs run
χ² / ndf 1271 / 91
p0 278.2 ± 0.2094
300
295
290
285
280
275
270
265
260

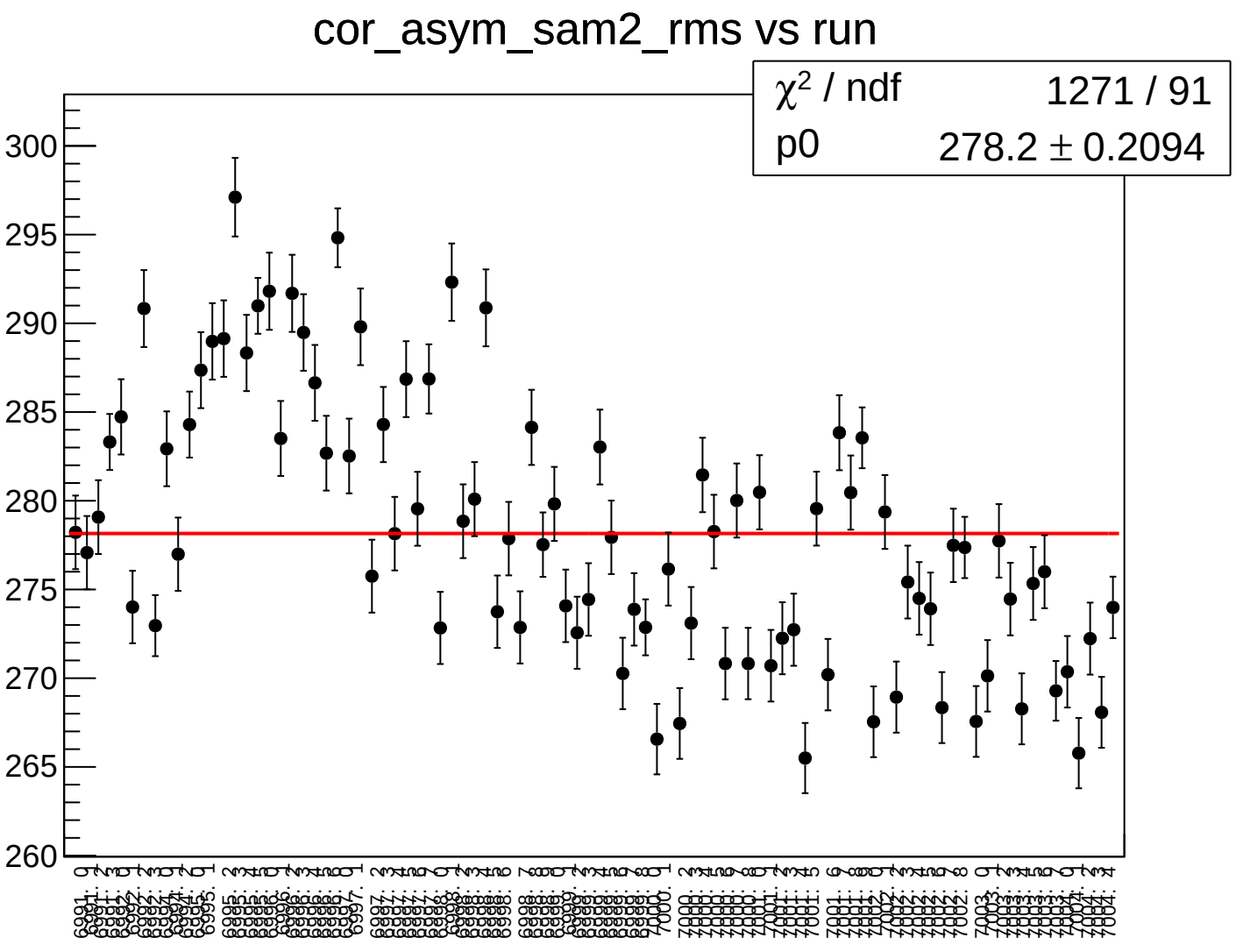

asym_sam2_reg_correction_mean vs run
χ² / ndf 77.67 / 91
p0 −2348 ± 2047
pull
Entries 92
Mean −814.7
Std Dev 0

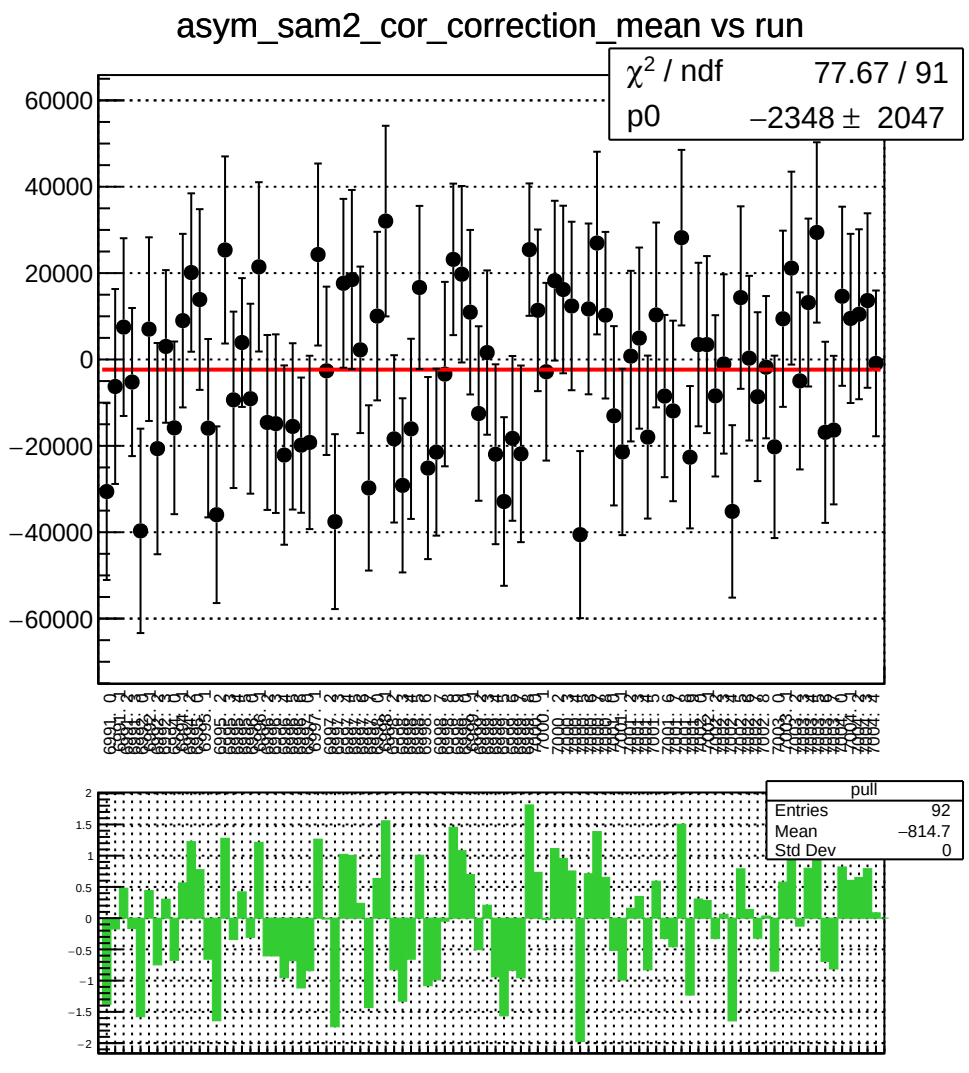

pull1D
Entries 92
Mean −0.004236
Std Dev 0.9188

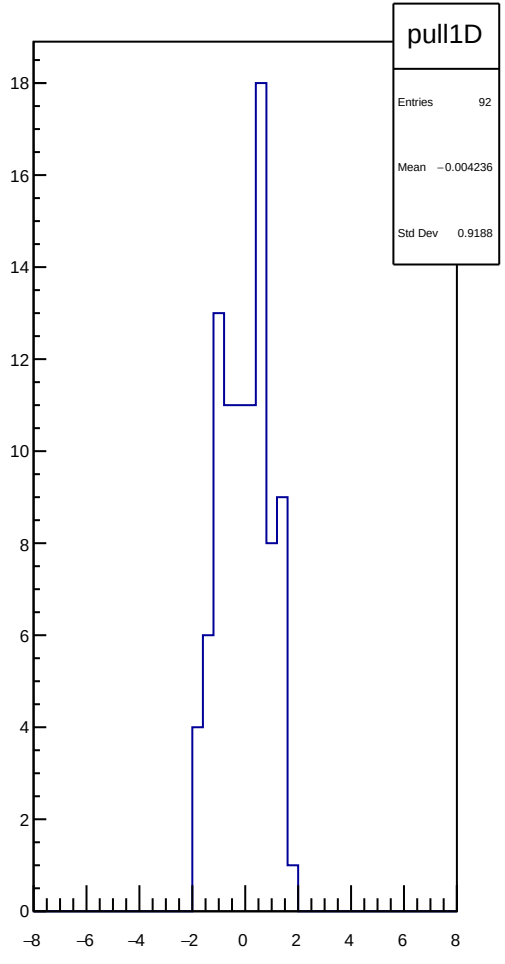

asym_sam2_reg_correction_rms vs run
χ² / ndf 4341 / 91
p0 1921 ± 1.448
2300
2200
2100
2000
1900
1800
1700

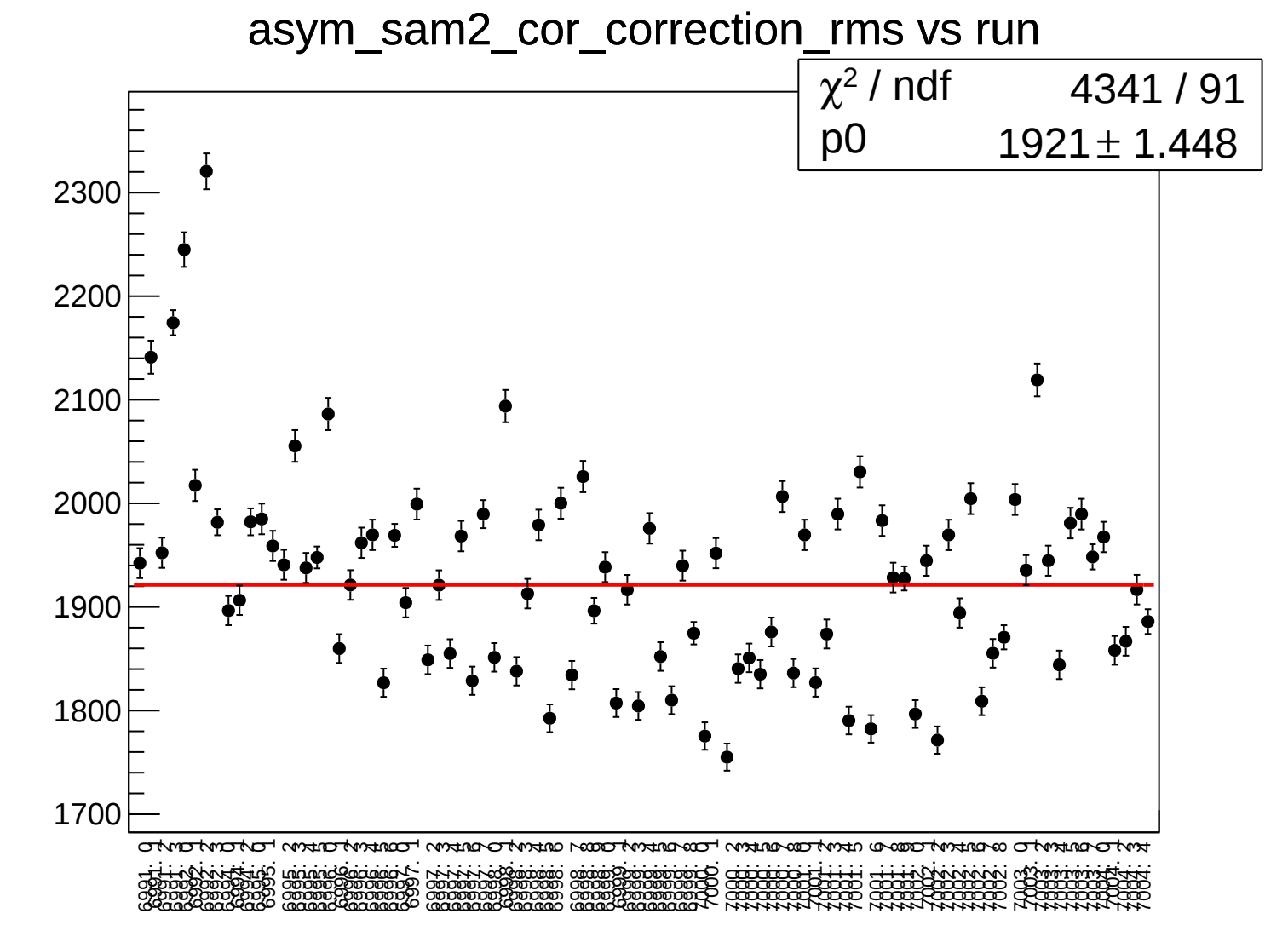

cor_asym_sam2_mean vs run
χ² / ndf 96.3 / 91
p0 107.6 ± 296.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 24.26
Std Dev 0
2
1
0
−1
−2
−3

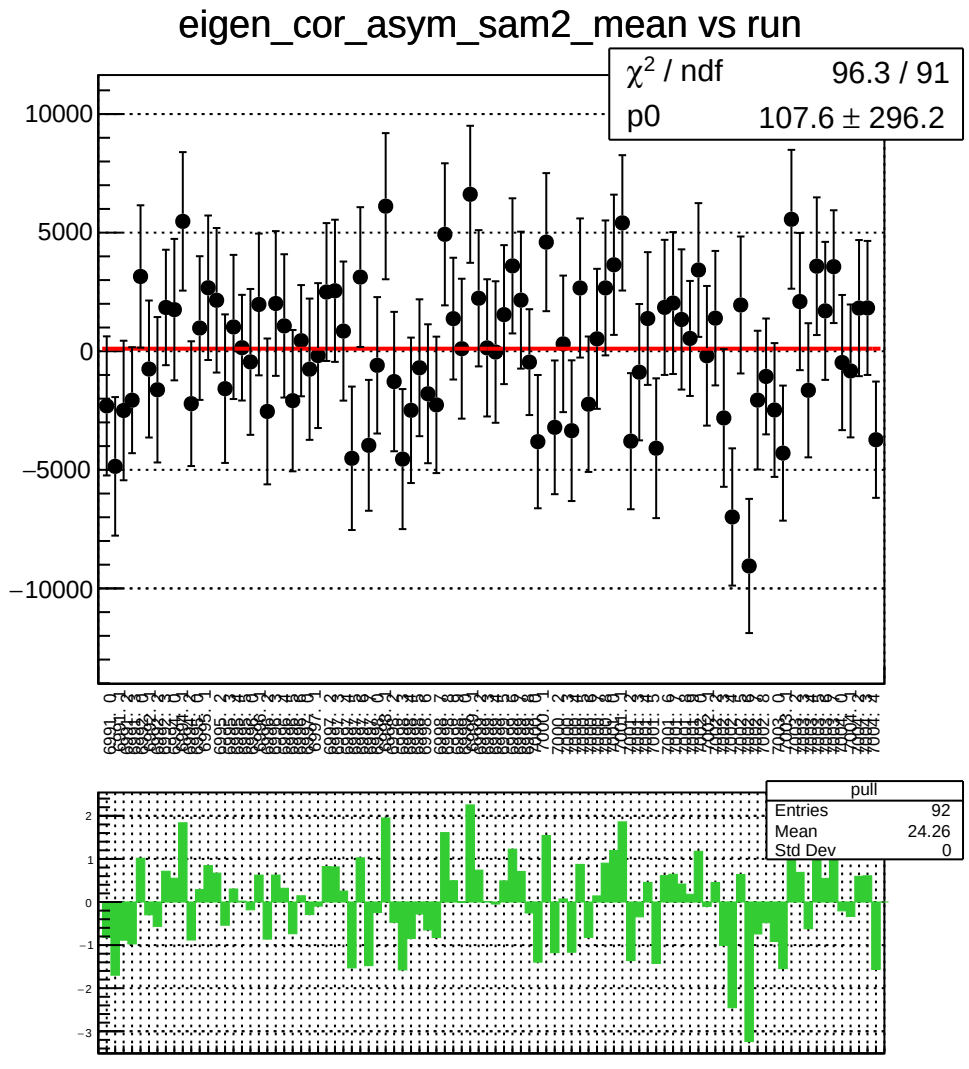

pull1D
Entries 92
Mean 0.005924
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

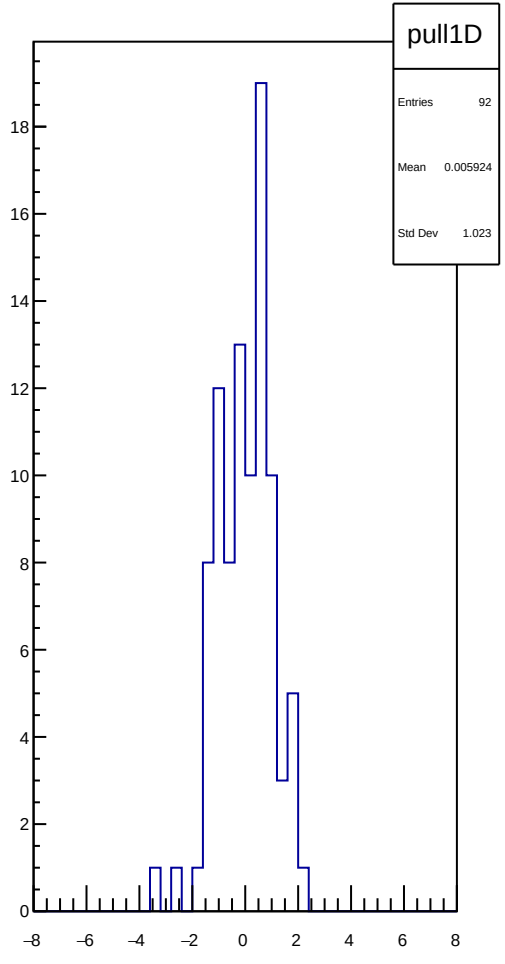

cor_asym_sam2_rms vs run
χ² / ndf 1271 / 91
p0 278.2 ± 0.2094
300
295
290
285
280
275
270
265
260

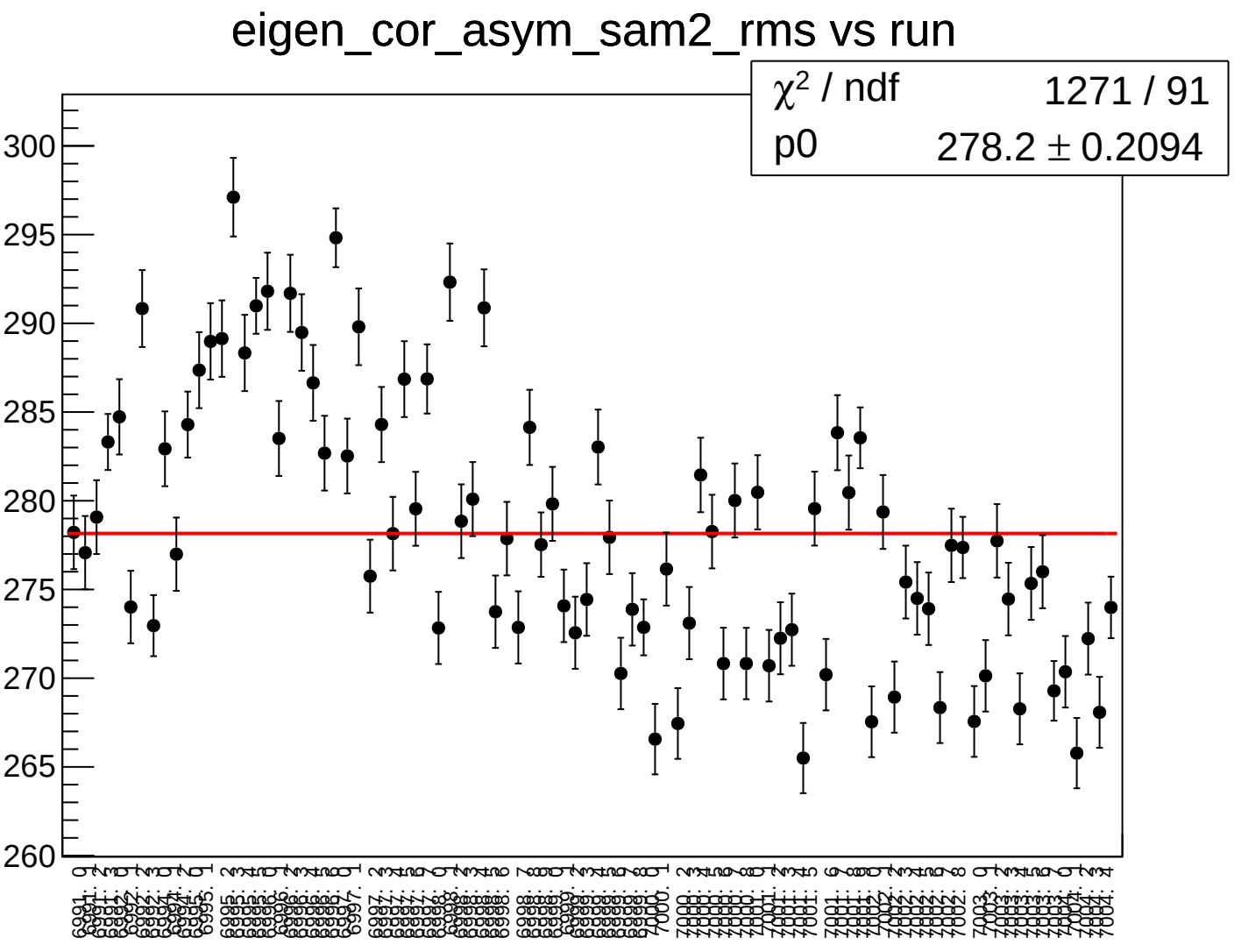

asym_sam2_cor_correction_mean vs run
χ² / ndf 77.67 / 91
p0 −2348 ± 2047
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −814.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

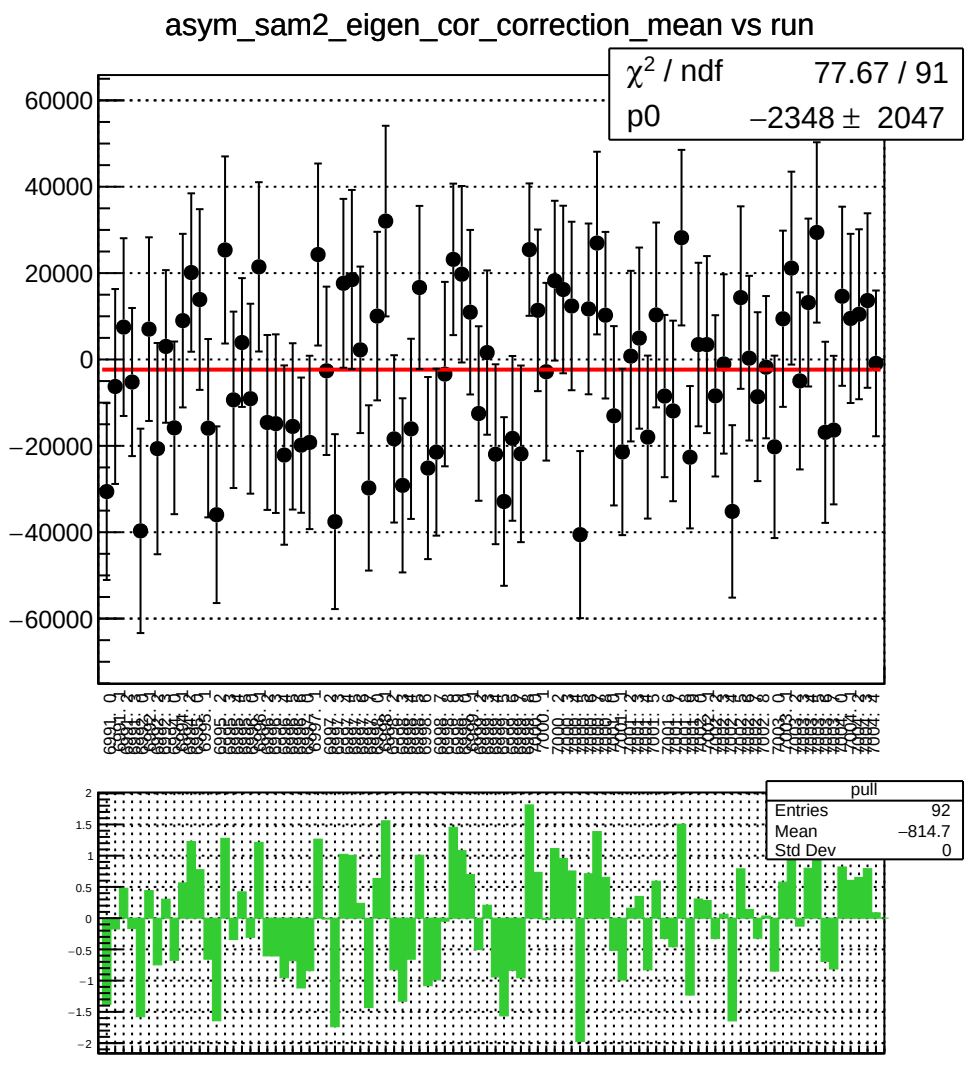

pull1D
Entries 92
Mean −0.004236
Std Dev 0.9188
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

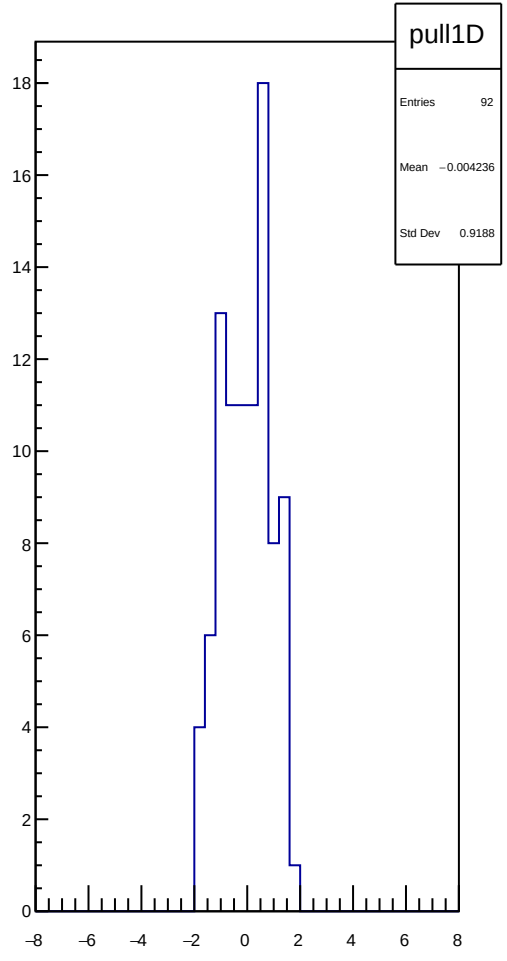

asym_sam2_cor_correction_rms vs run
χ² / ndf 4341 / 91
p0 1921 ± 1.448
2300
2200
2100
2000
1900
1800
1700

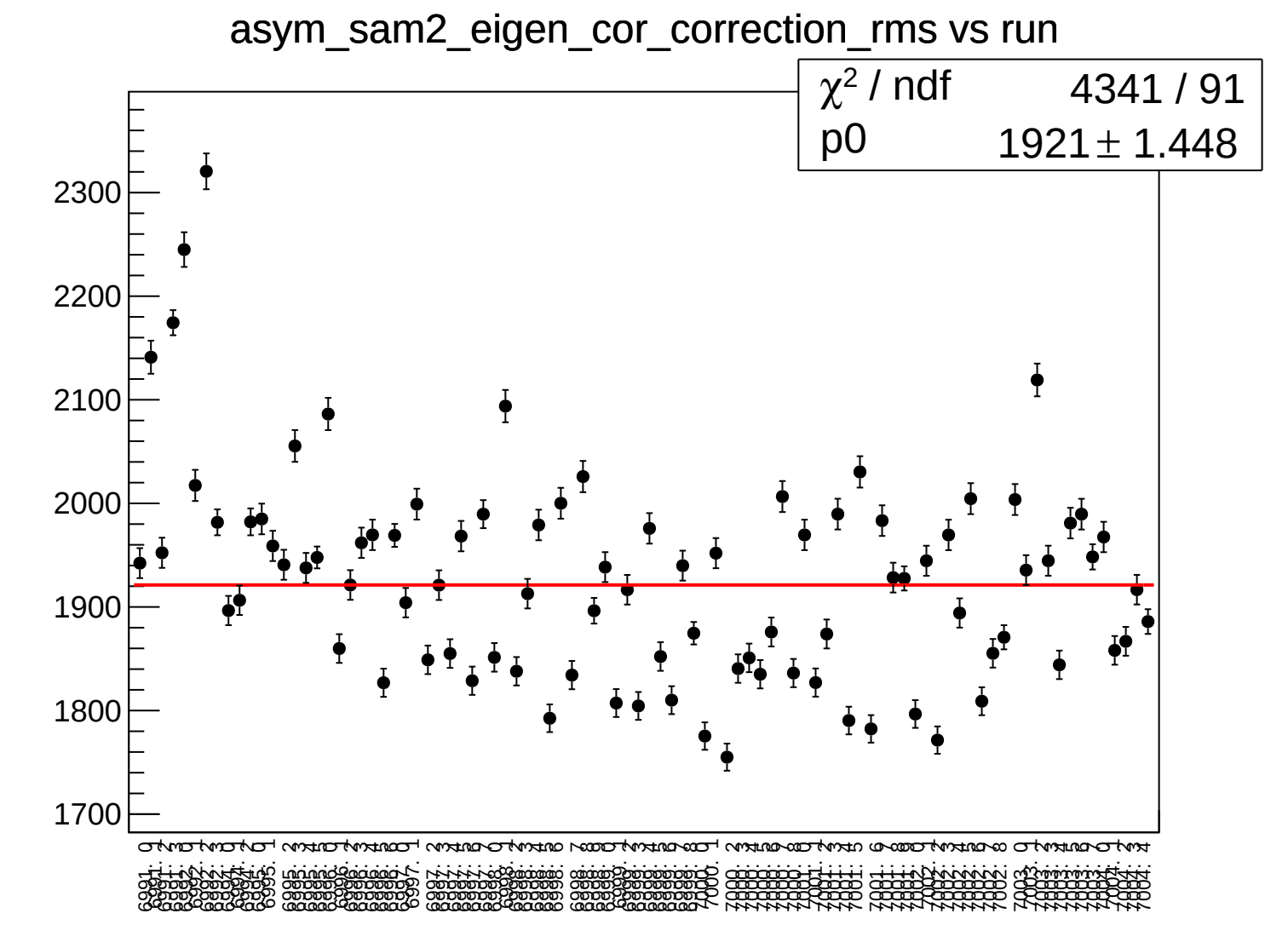

eigen_cor_asym_sam2_mean vs run
χ² / ndf 96.3 / 91
p0 107.6 ± 296.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 24.26
Std Dev 0
2
1
0
−1
−2
−3

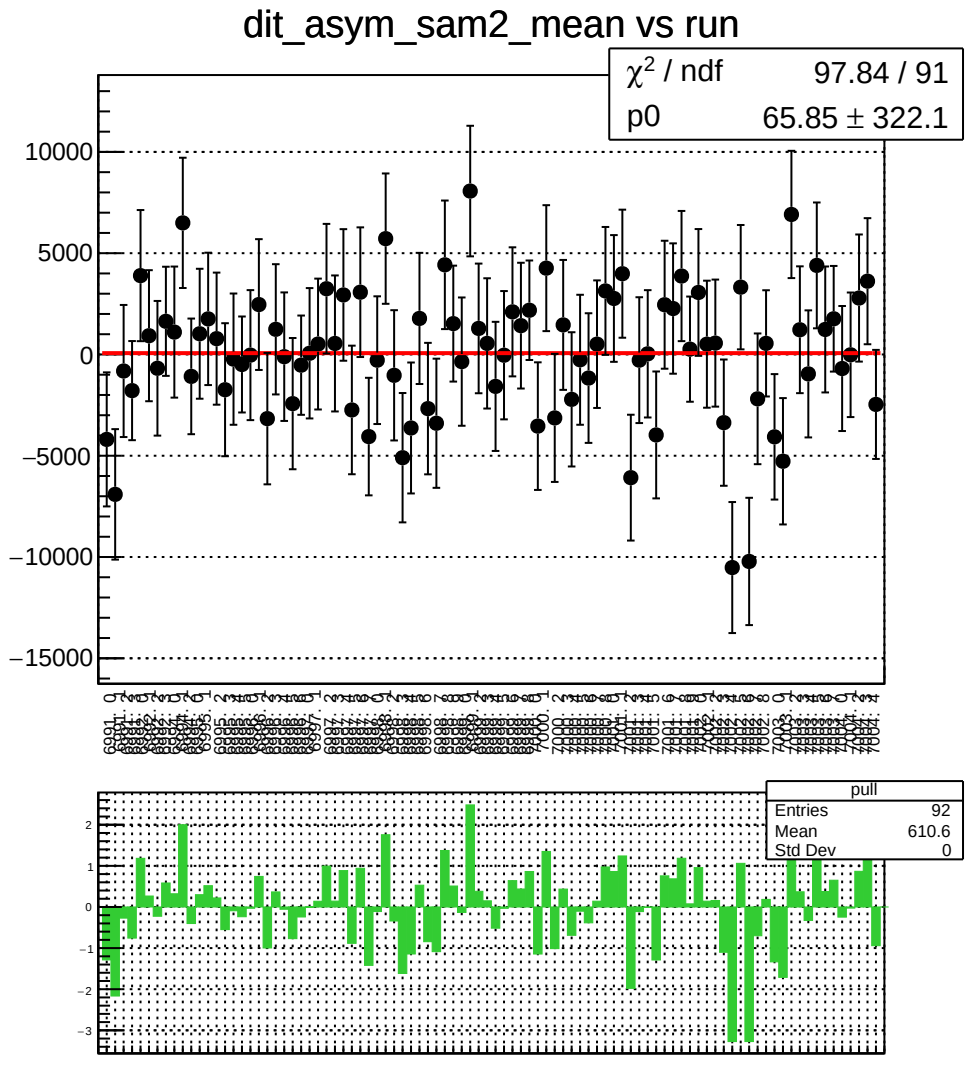

pull1D
Entries 92
Mean 0.005924
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

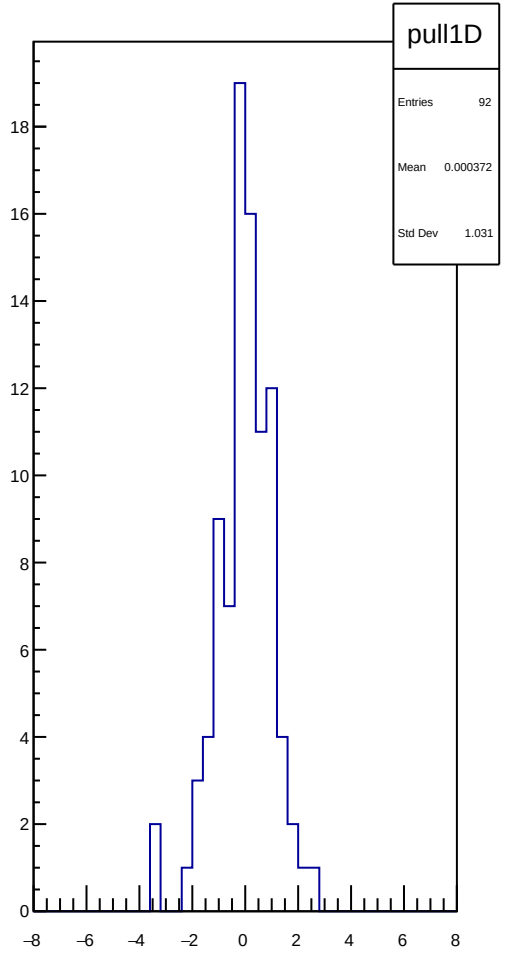

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1271 / 91
p0 278.2 ± 0.2094
300
295
290
285
280
275
270
265
260

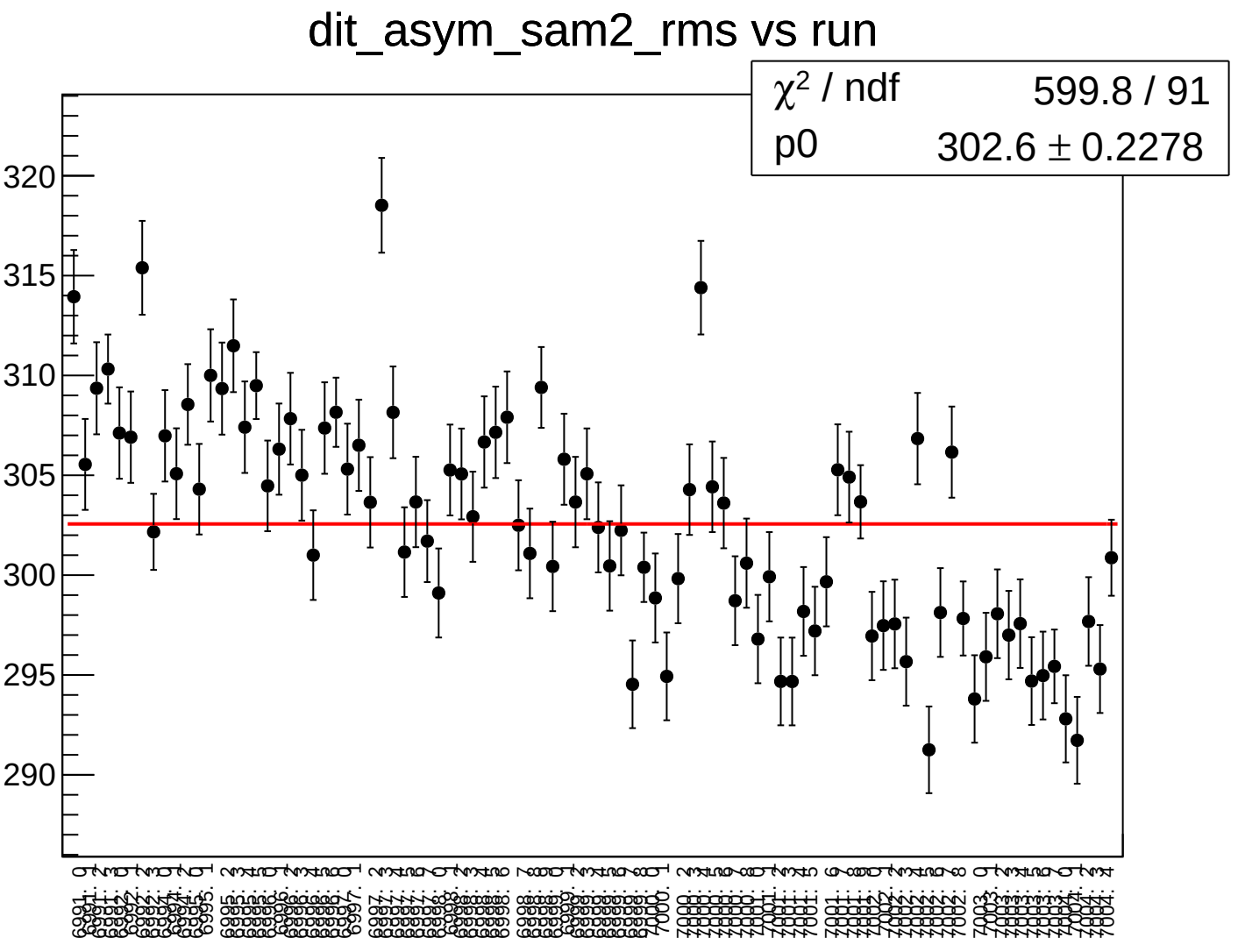

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 77.67 / 91
p0 −2348 ± 2047
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −814.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

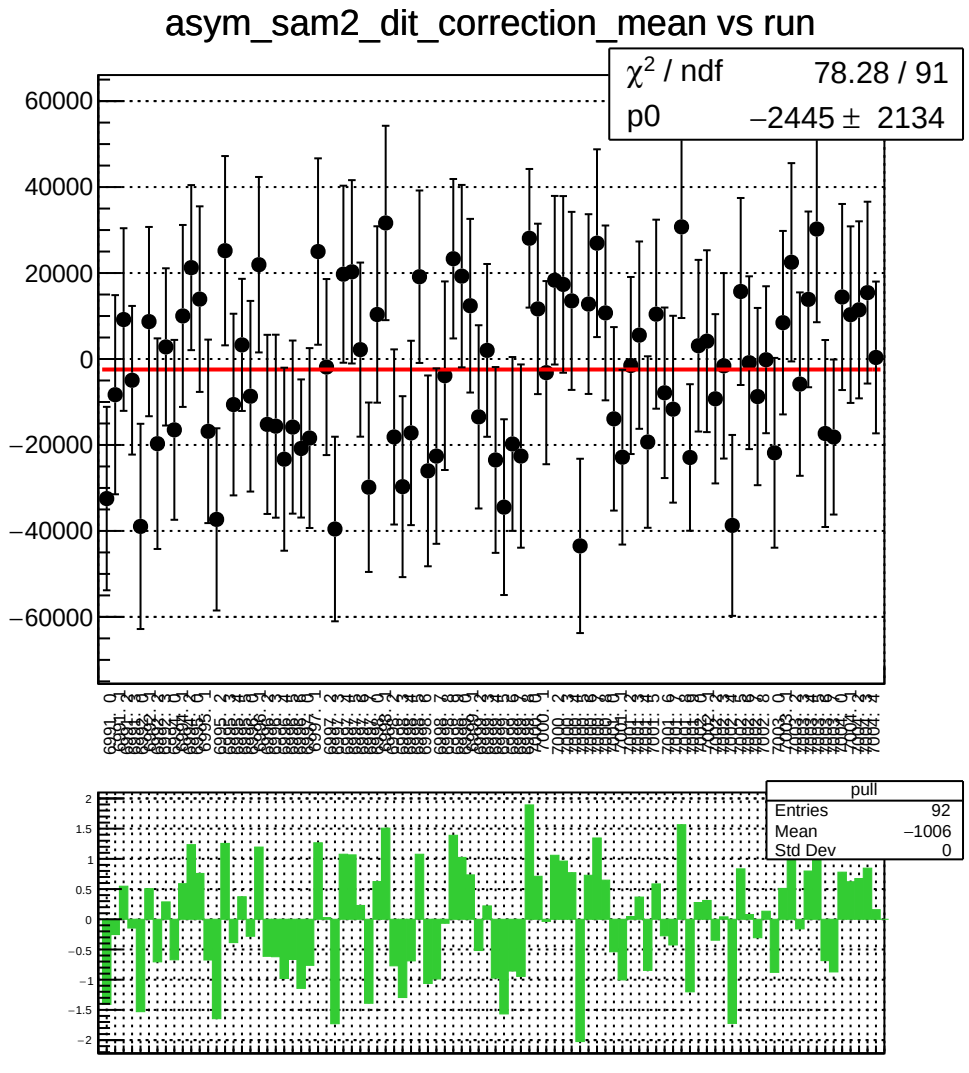

pull1D
Entries 92
Mean −0.004236
Std Dev 0.9188
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

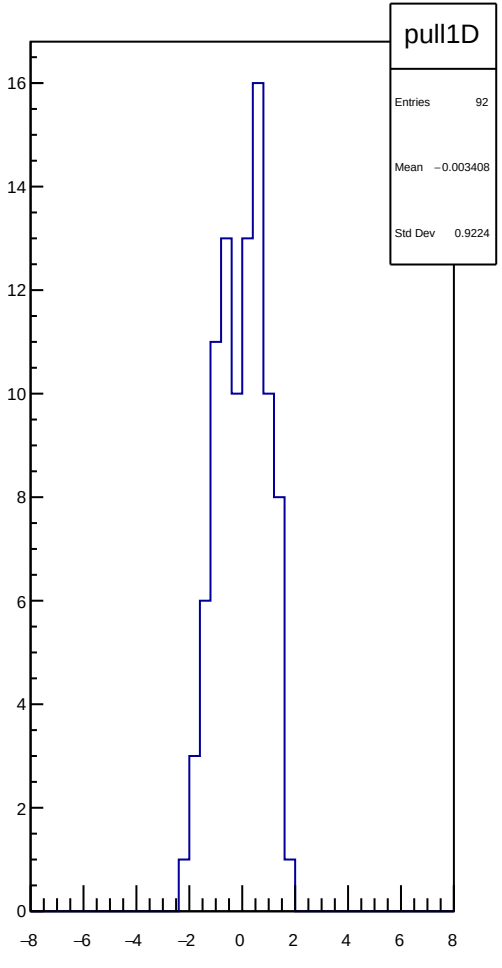

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 4341 / 91
p0 1921 ± 1.448
2300
2200
2100
2000
1900
1800
1700

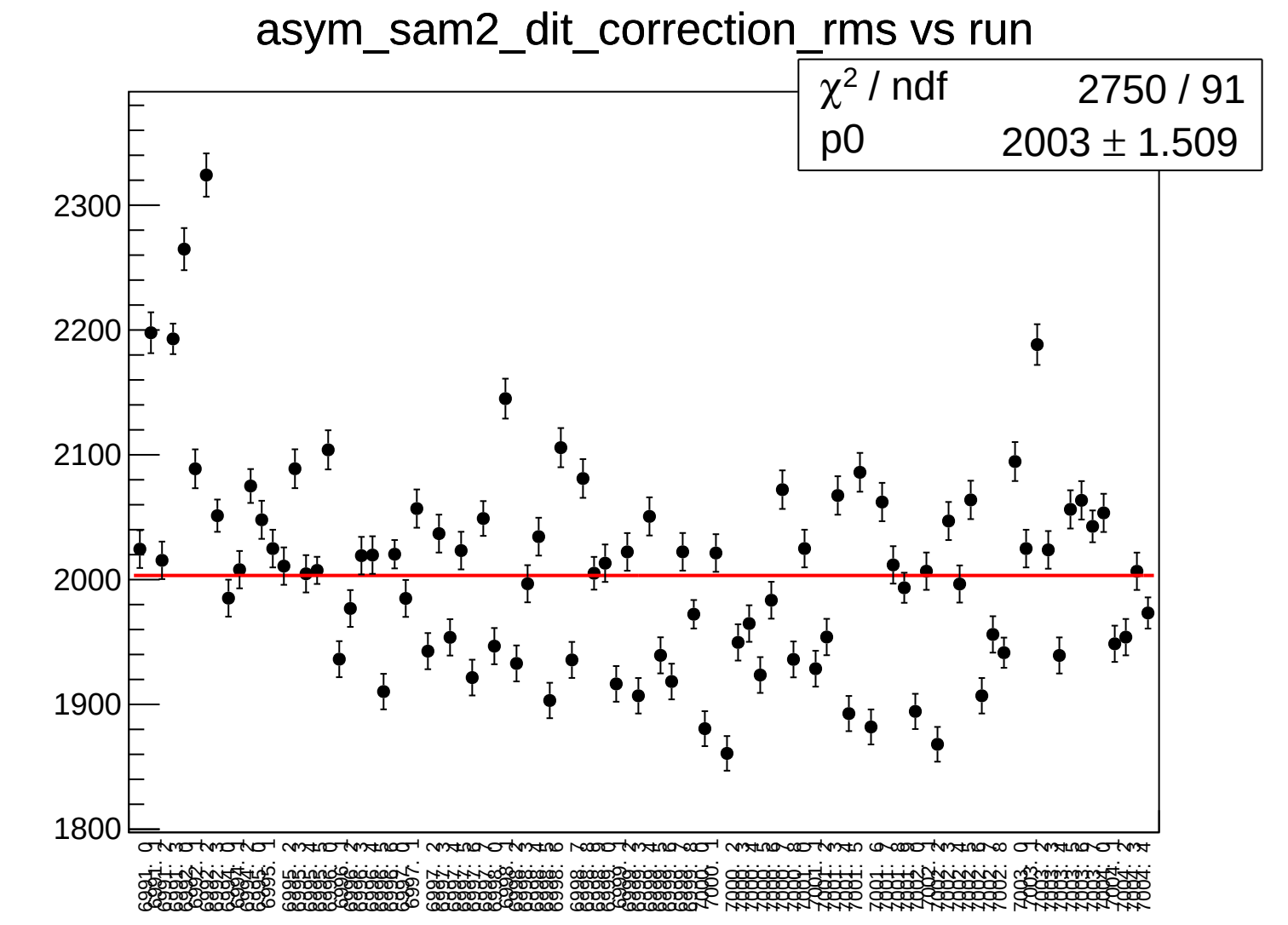

dit_asym_sam2_mean vs run
χ^2 / ndf 97.84 / 91
p0 65.85 ± 322.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 610.6
Std Dev 0
2
1
0
−1
−2
−3

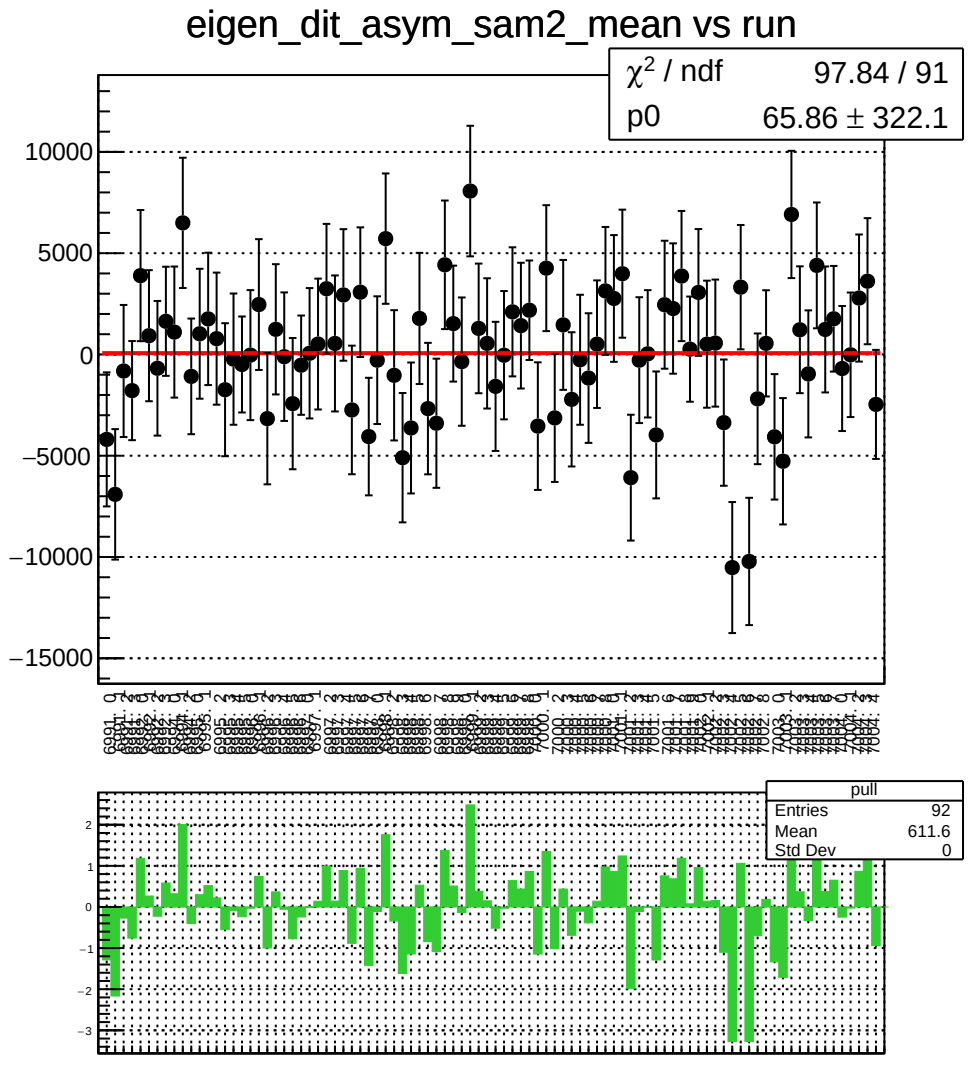

pull1D
Entries 92
Mean 0.000372
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

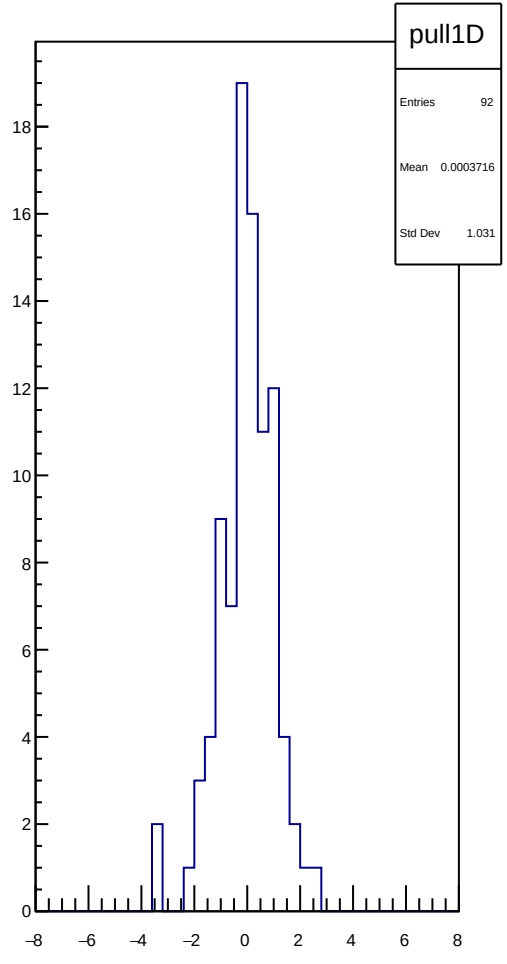

dit_asym_sam2_rms vs run
χ² / ndf 599.8 / 91
p0 302.6 ± 0.2278
320
315
310
305
300
295
290

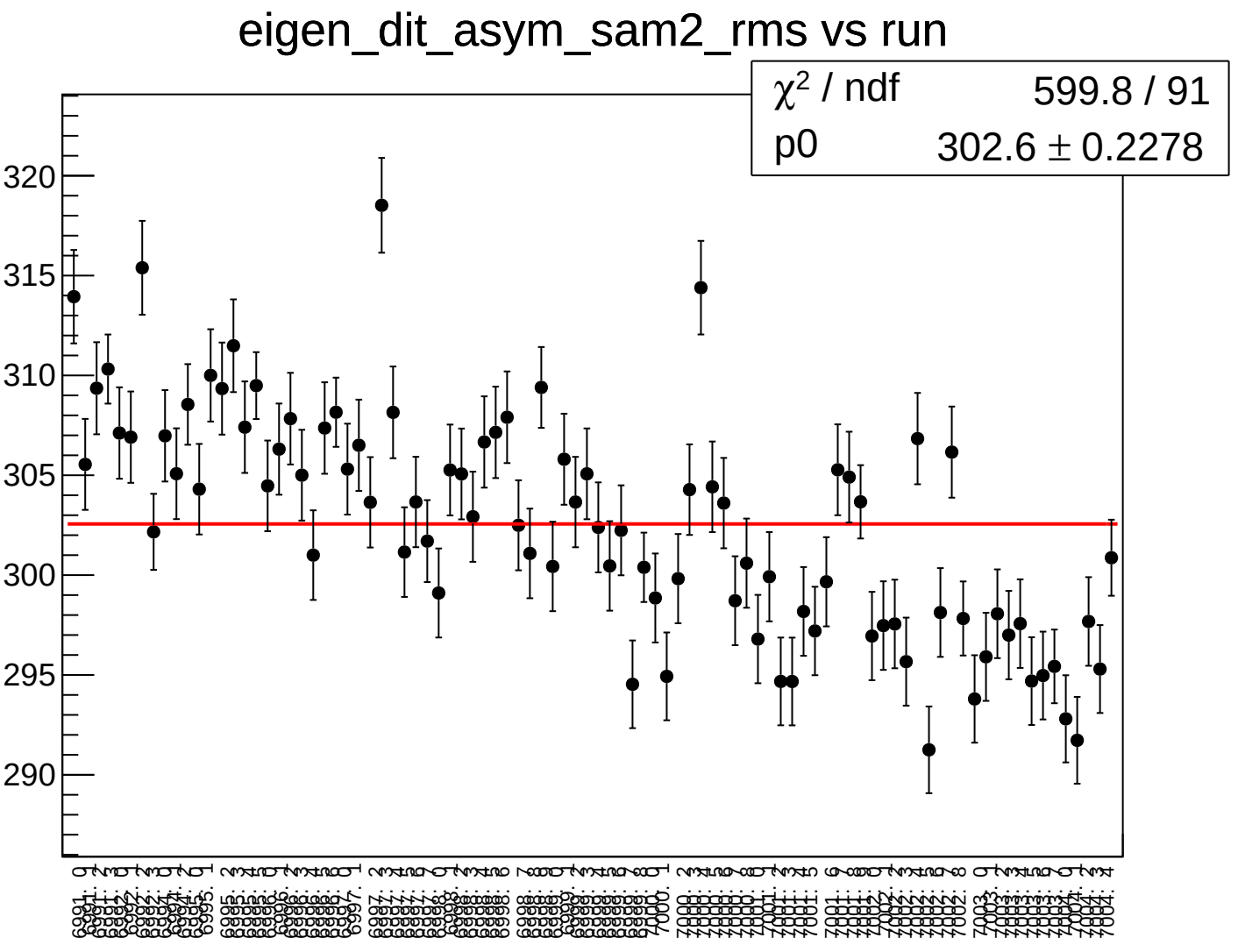

asym_sam2_dit_correction_mean vs run
χ² / ndf 78.28 / 91
p0 −2445 ± 2134
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1006
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

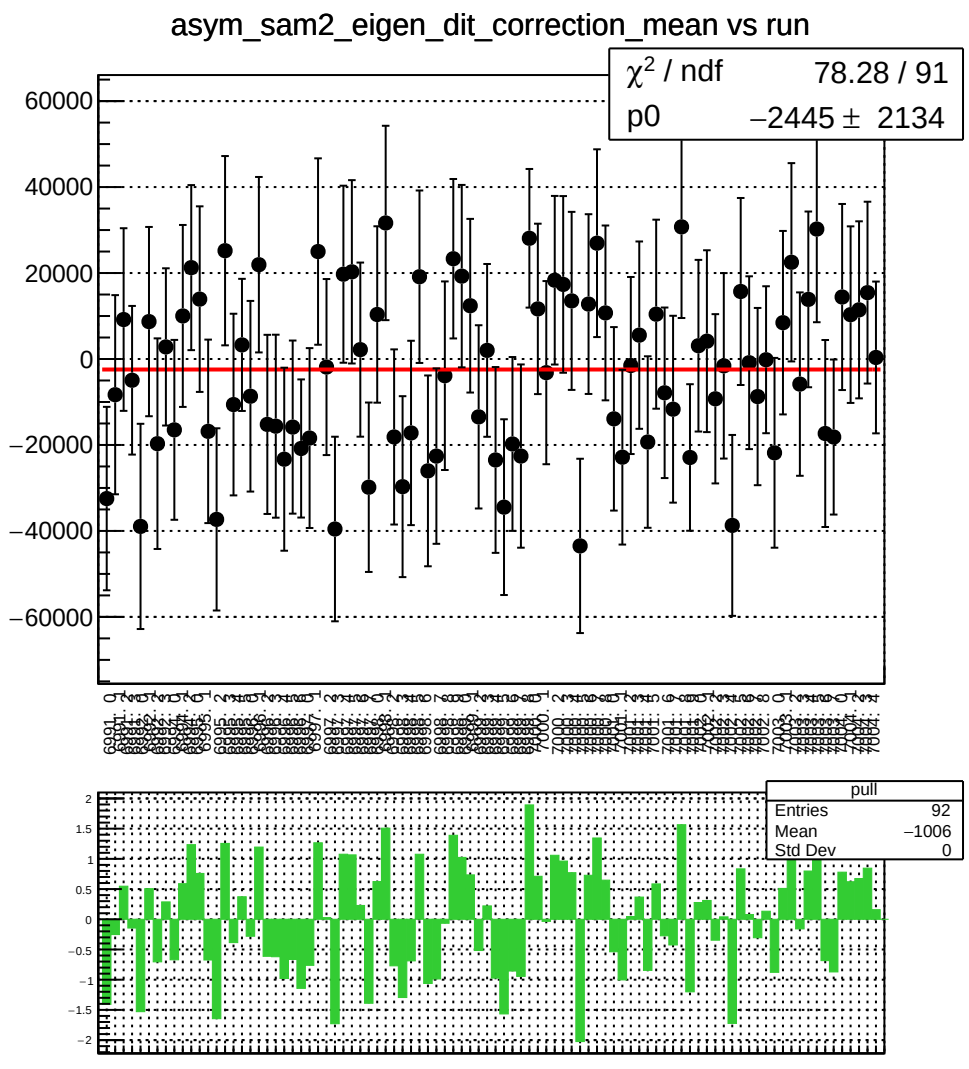

pull1D
Entries 92
Mean −0.003408
Std Dev 0.9224
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

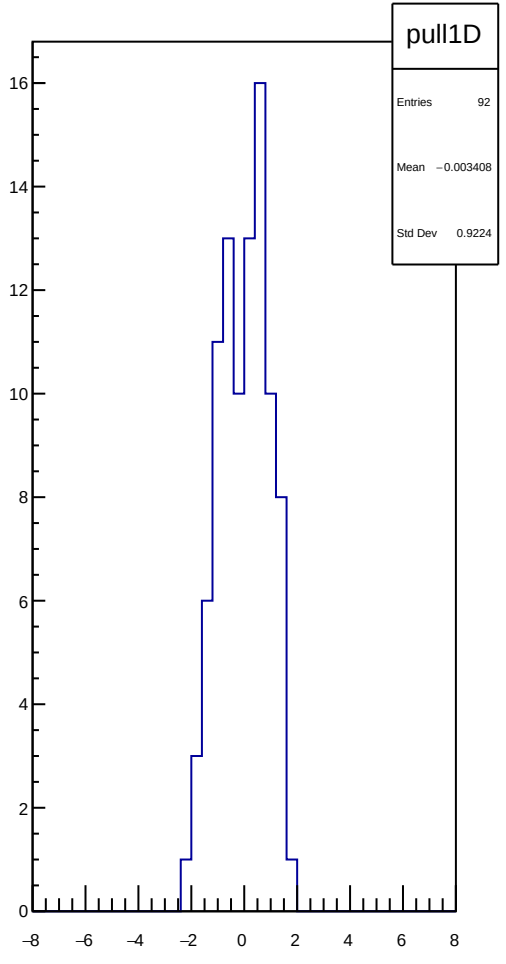

asym_sam2_dit_correction_rms vs run
χ² / ndf 2750 / 91
p0 2003 ± 1.509
2300
2200
2100
2000
1900
1800

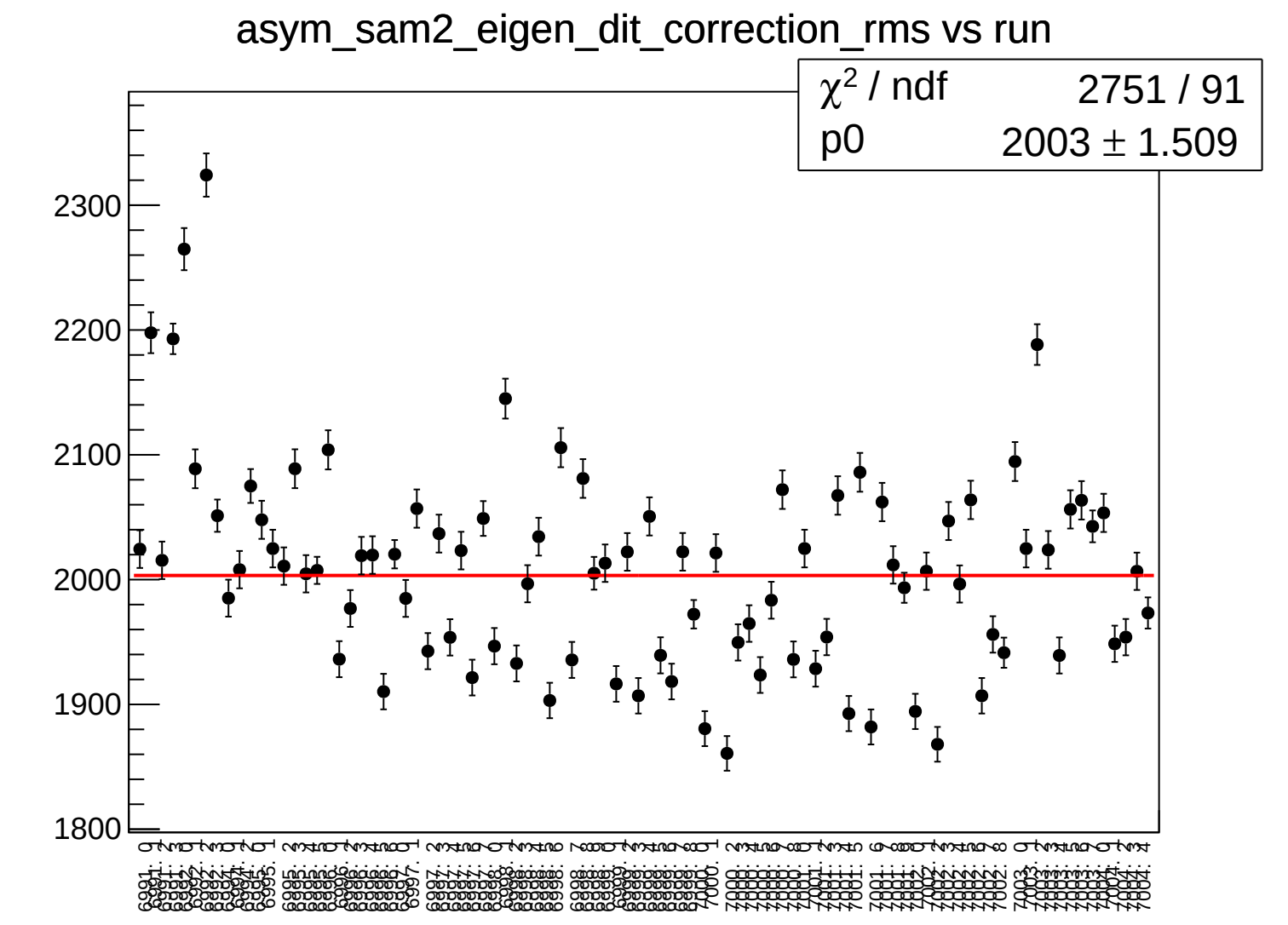

eigen_dit_asym_sam2_mean vs run
χ² / ndf 97.84 / 91
p0 65.86 ± 322.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 611.6
Std Dev 0
2
1
0
−1
−2
−3

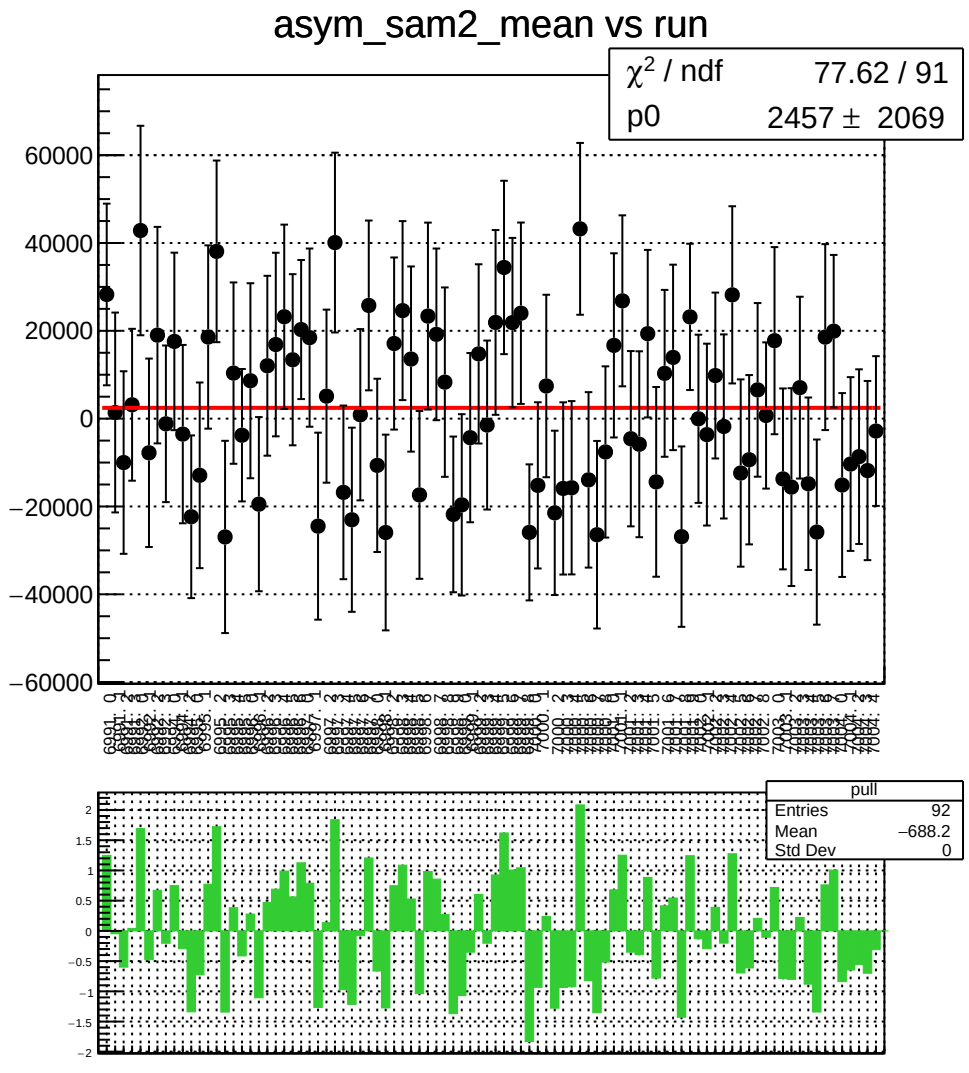

pull1D
Entries 92
Mean 0.0003716
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

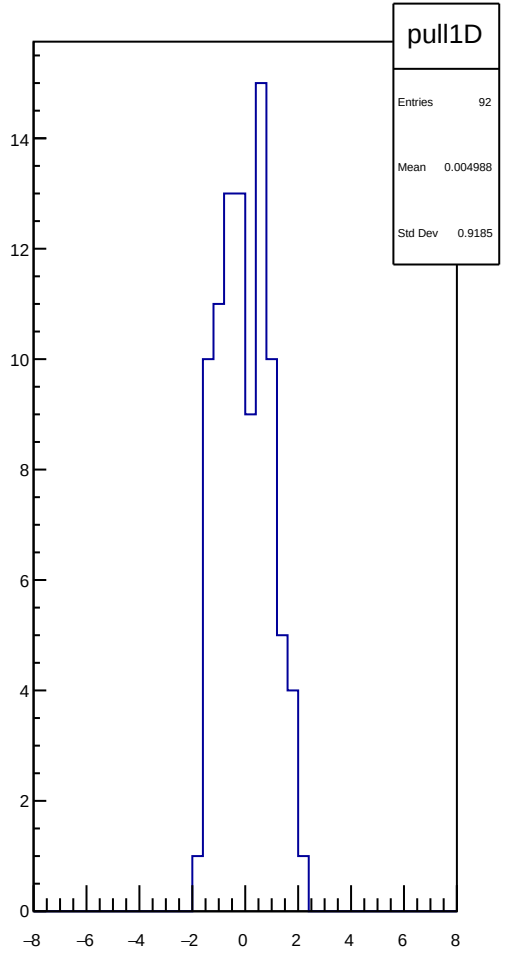

eigen_dit_asym_sam2_rms vs run
χ² / ndf 599.8 / 91
p0 302.6 ± 0.2278
320
315
310
305
300
295
290

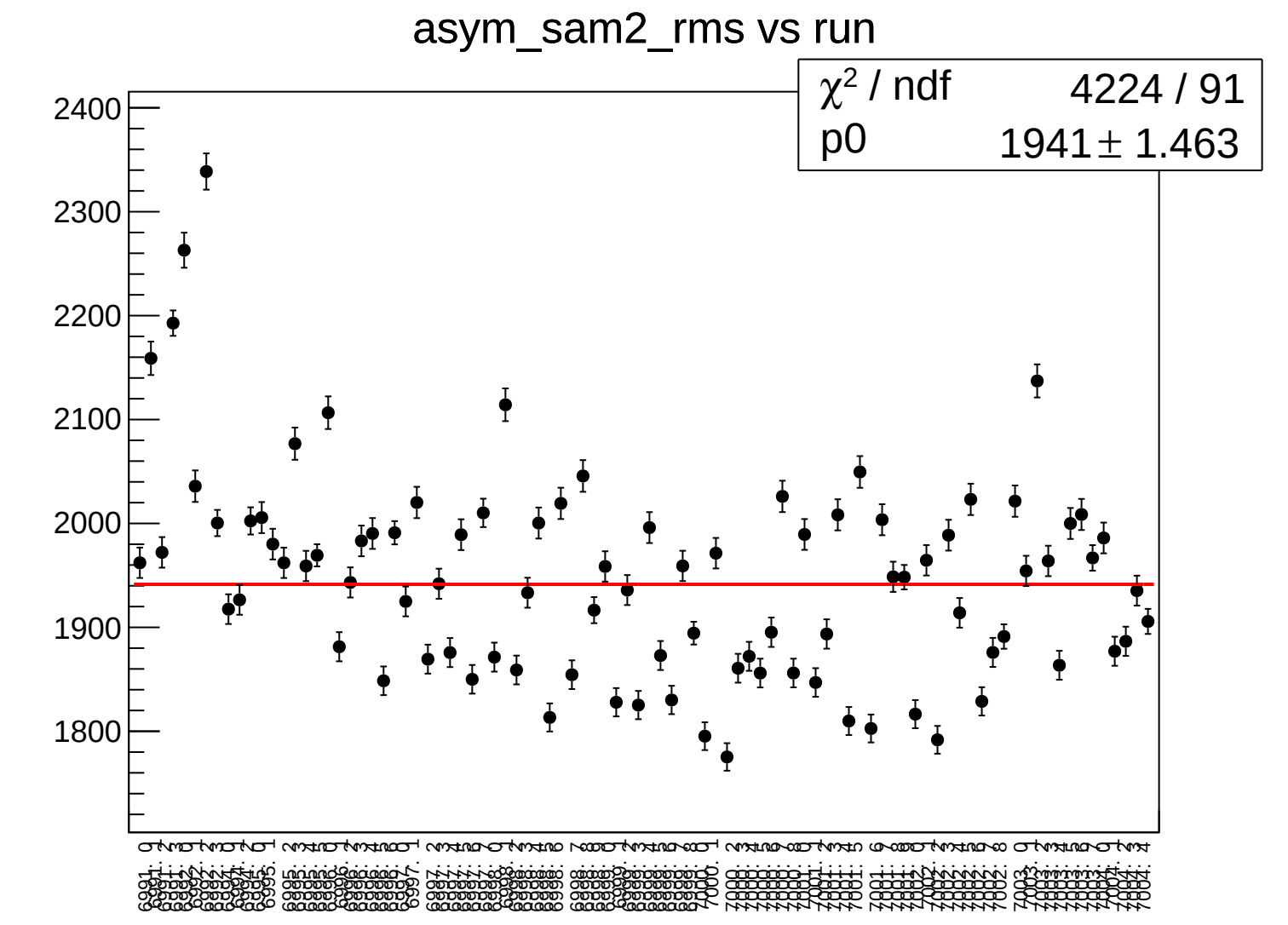

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 78.28 / 91
p0 −2445 ± 2134
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1006
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

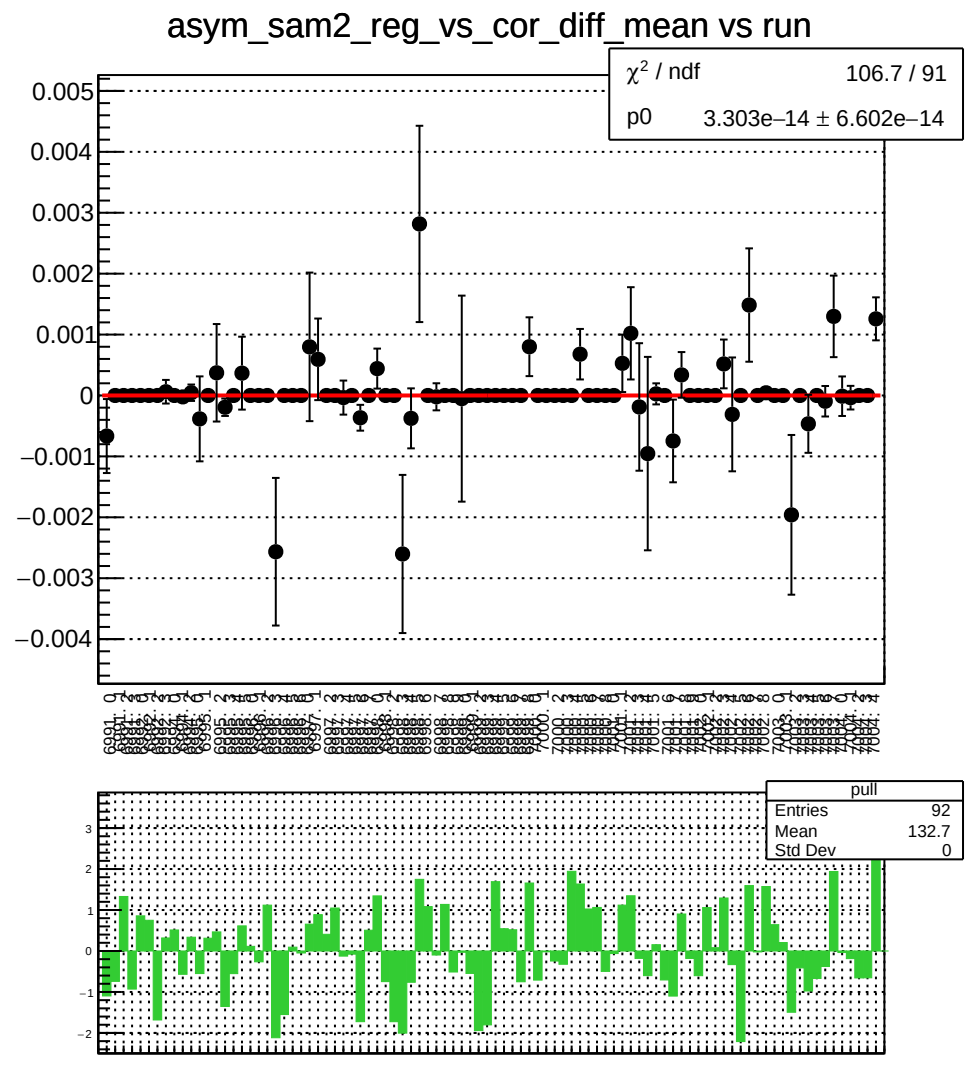

pull1D
Entries 92
Mean −0.003408
Std Dev 0.9224
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

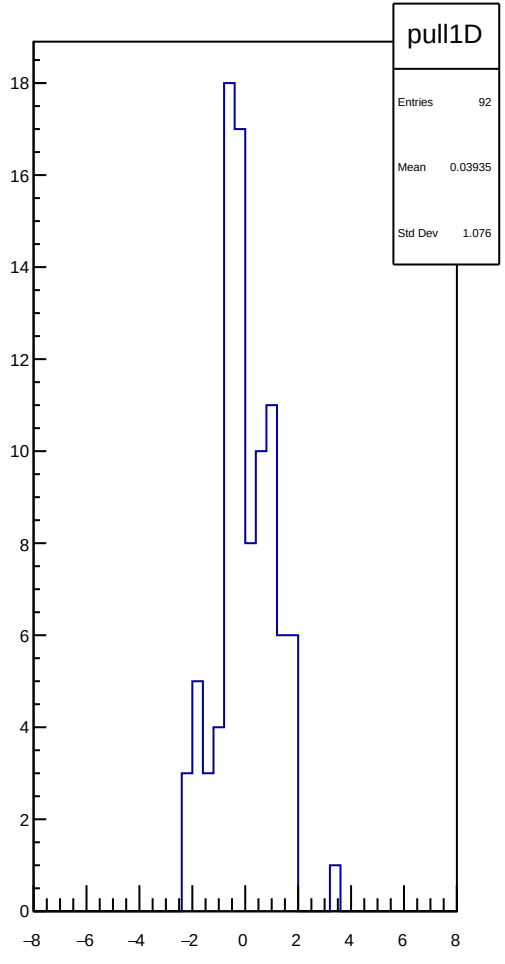

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2751 / 91
p0 2003 ± 1.509
2300
2200
2100
2000
1900
1800

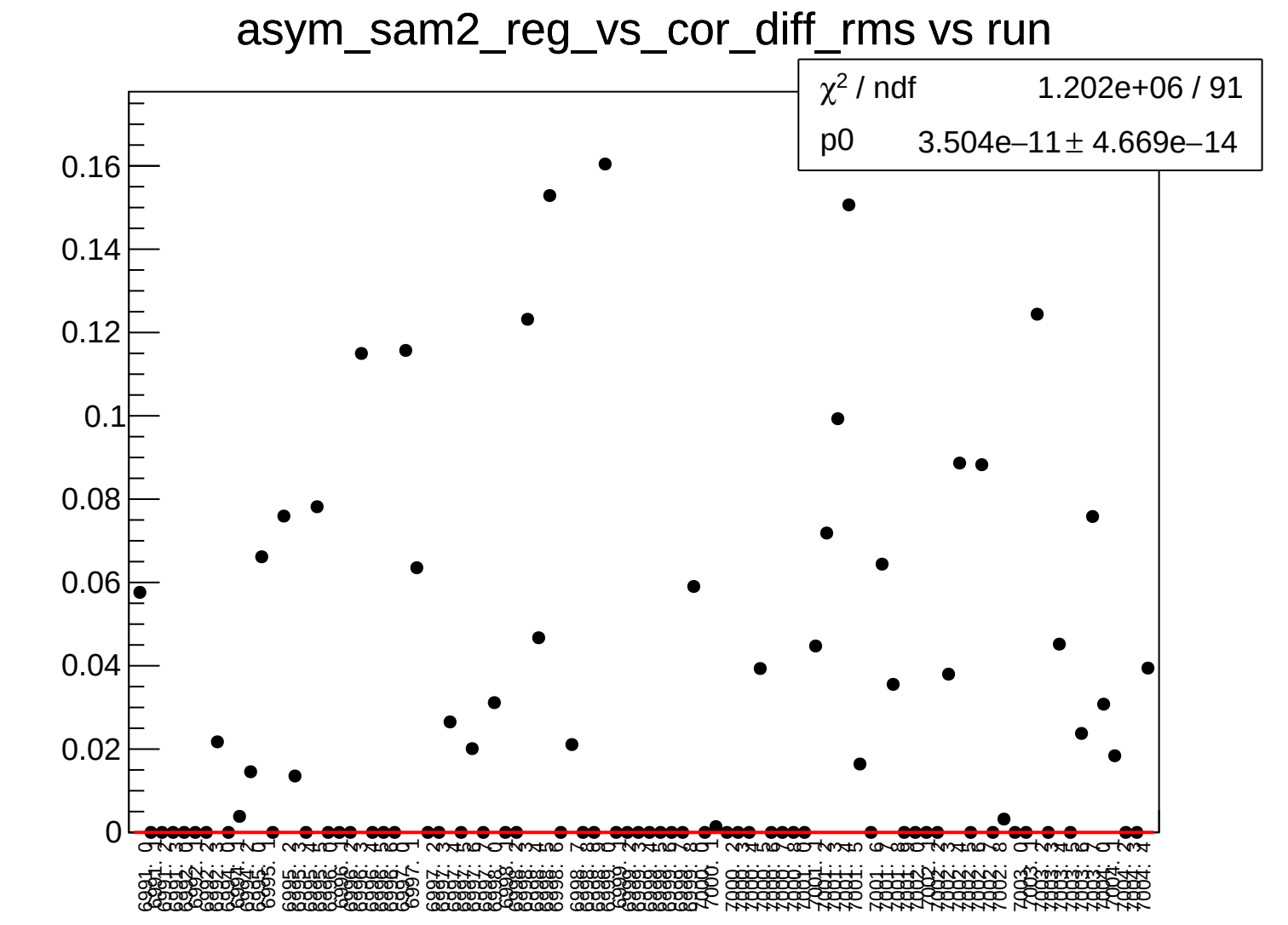

asym_sam2_mean vs run
χ² / ndf 77.62 / 91
p0 2457 ± 2069
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −688.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

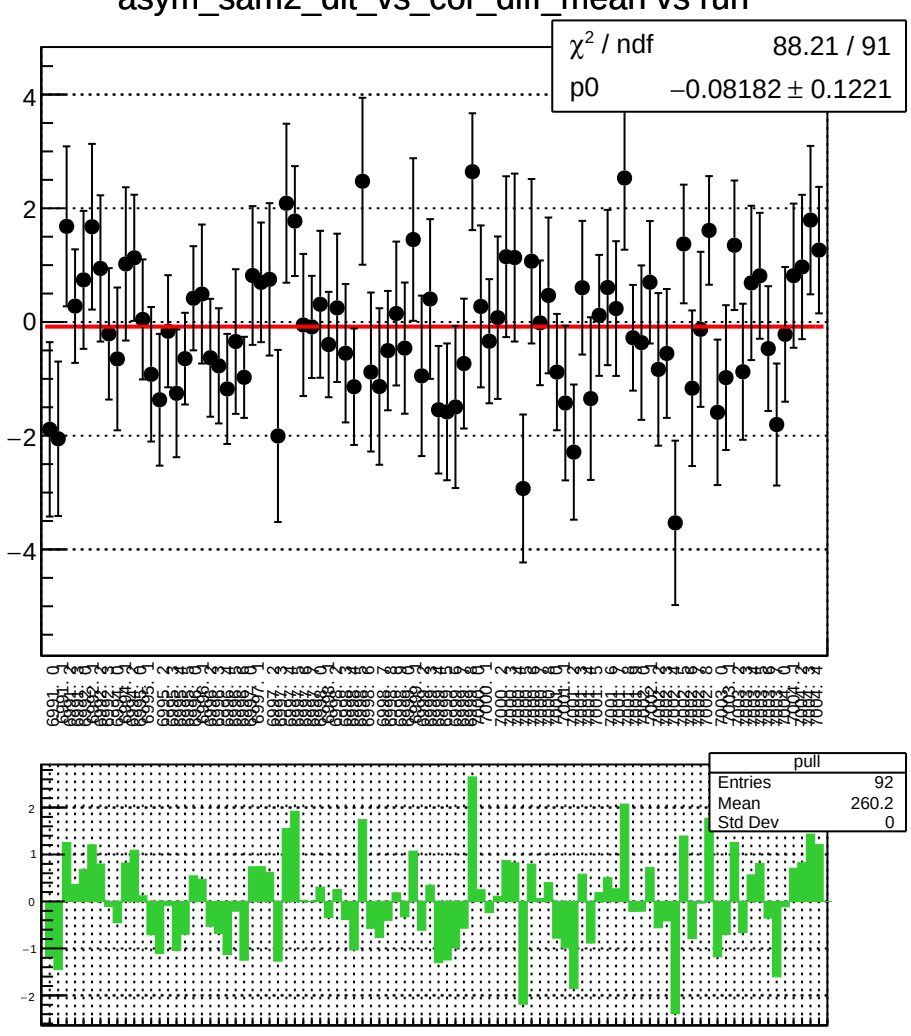

pull1D
Entries 92
Mean 0.004988
Std Dev 0.9185
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

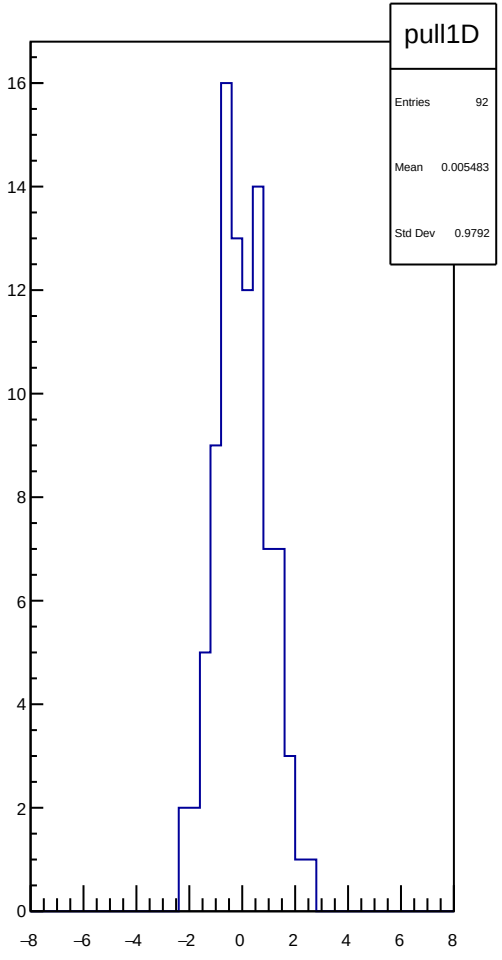

asym_sam2_rms vs run
χ² / ndf 4224 / 91
p0 1941 ± 1.463
2400
2300
2200
2100
2000
1900
1800

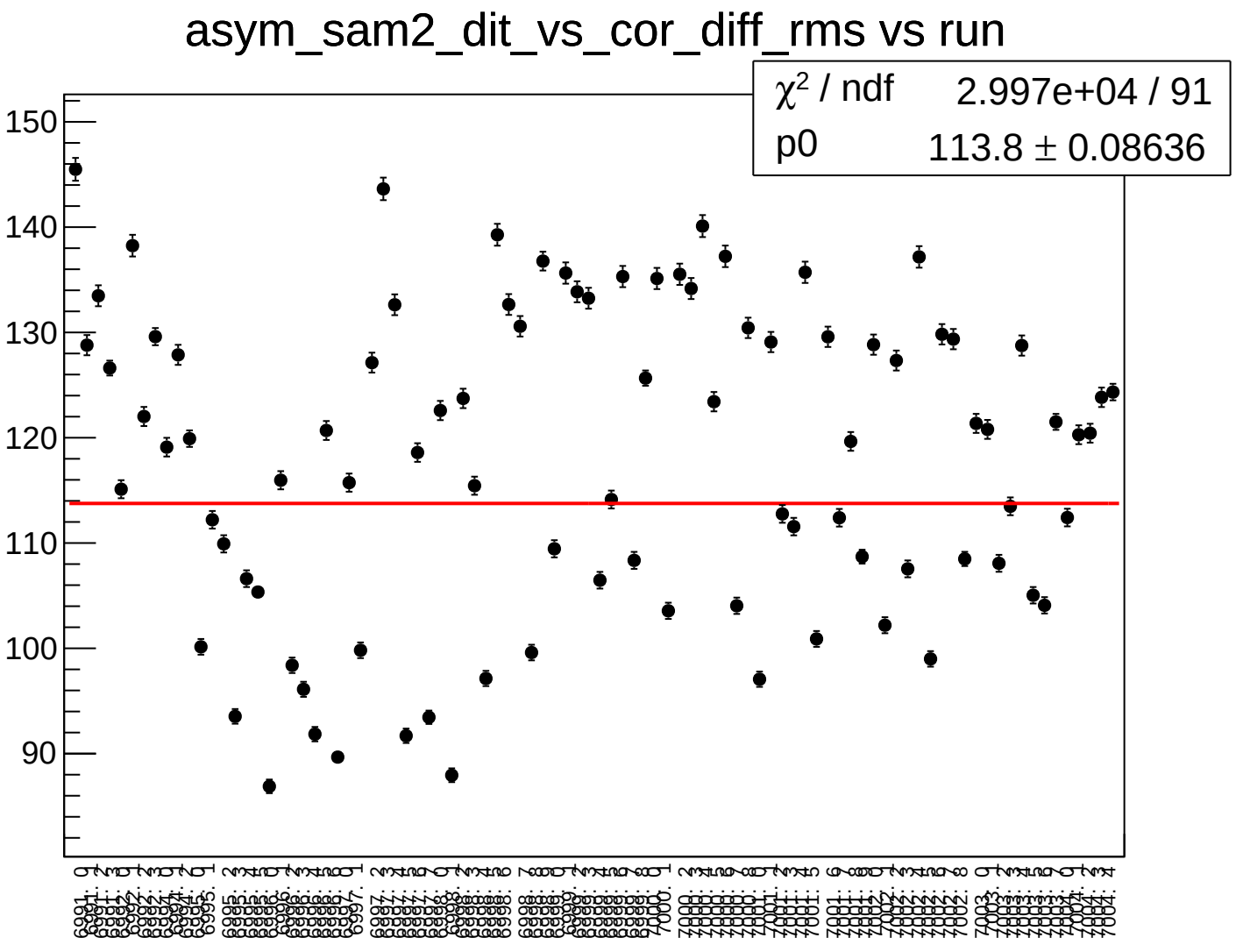

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 106.7 / 91
p0 3.303e−14 ± 6.602e−14
pull
Entries 92
Mean 132.7
Std Dev 0

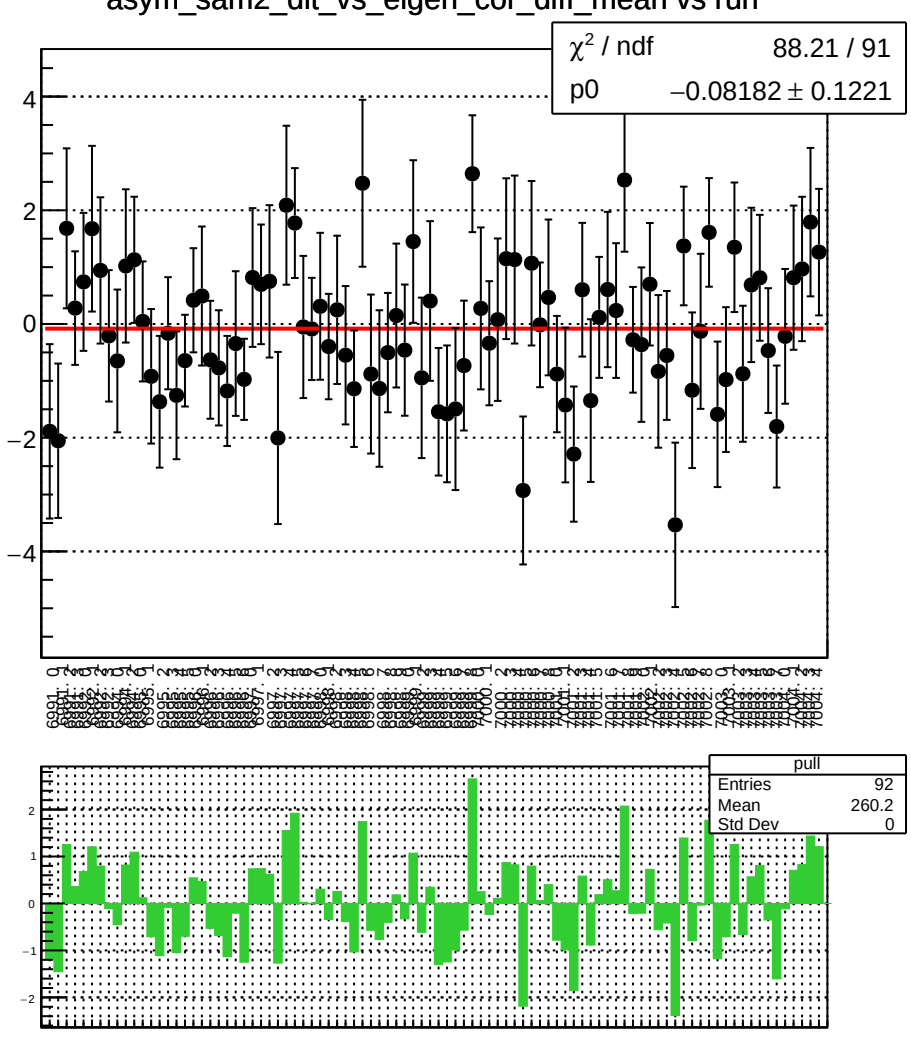

pull1D
Entries 92
Mean 0.03935
Std Dev 1.076

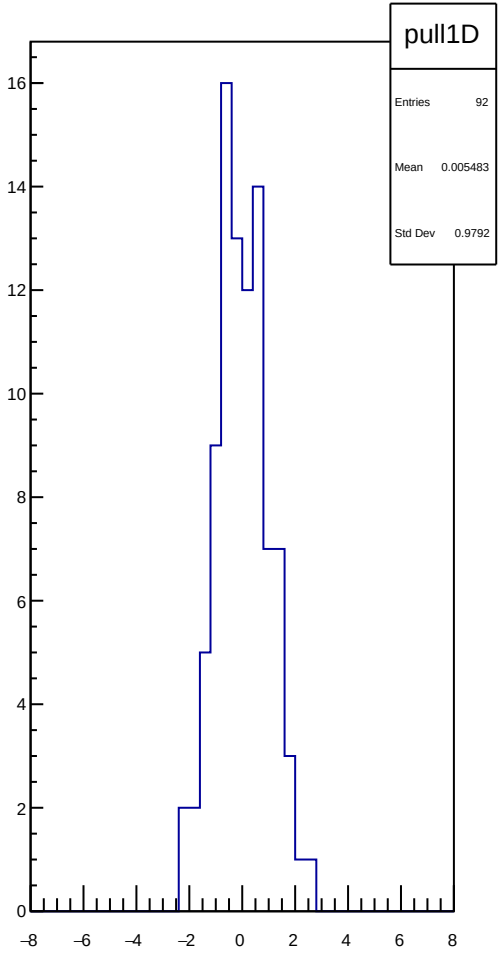

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.202e+06 / 91
p0 3.504e−11 ± 4.669e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

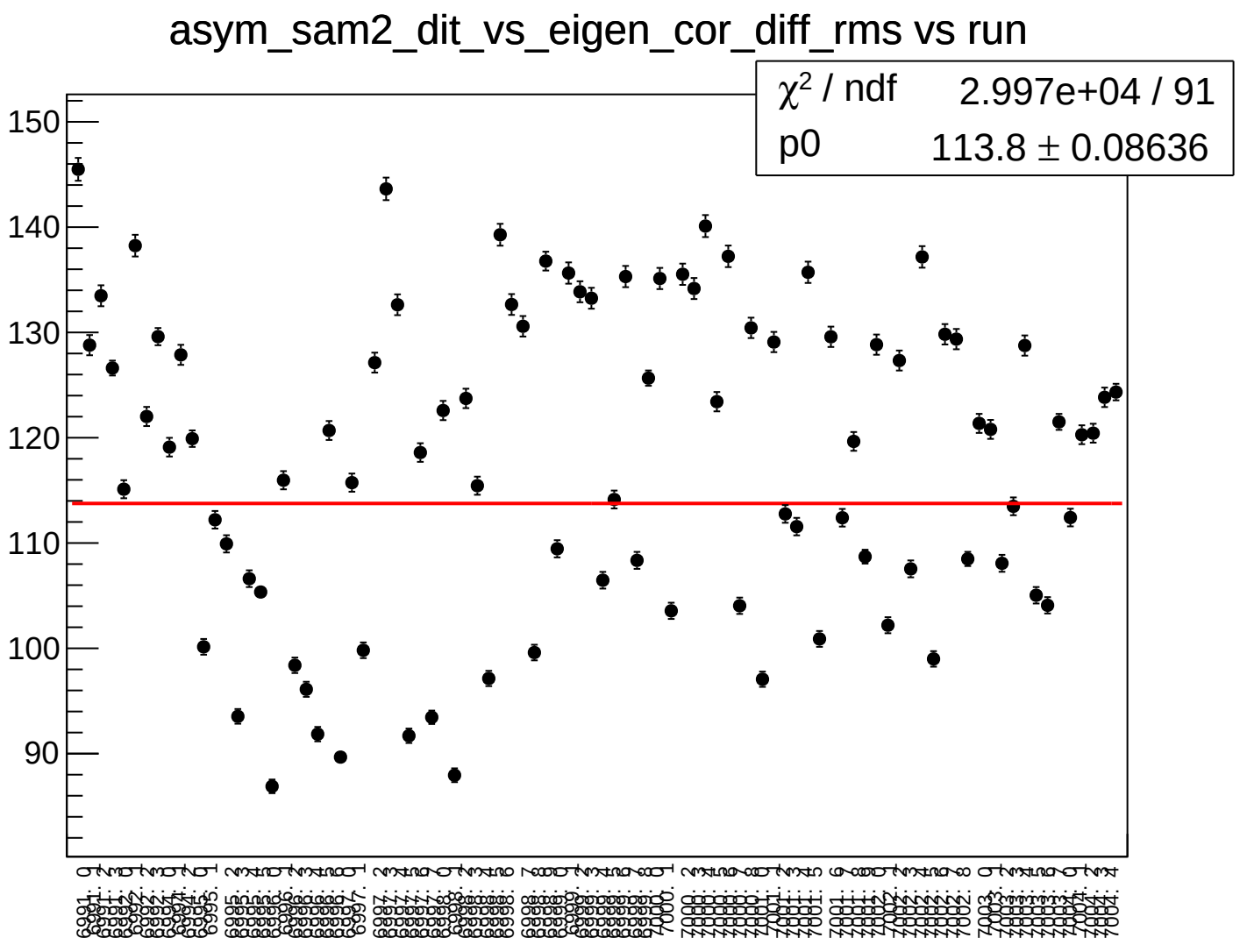

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 88.21 / 91
p0 −0.08182 ± 0.1221
pull
Entries 92
Mean 260.2
Std Dev 0

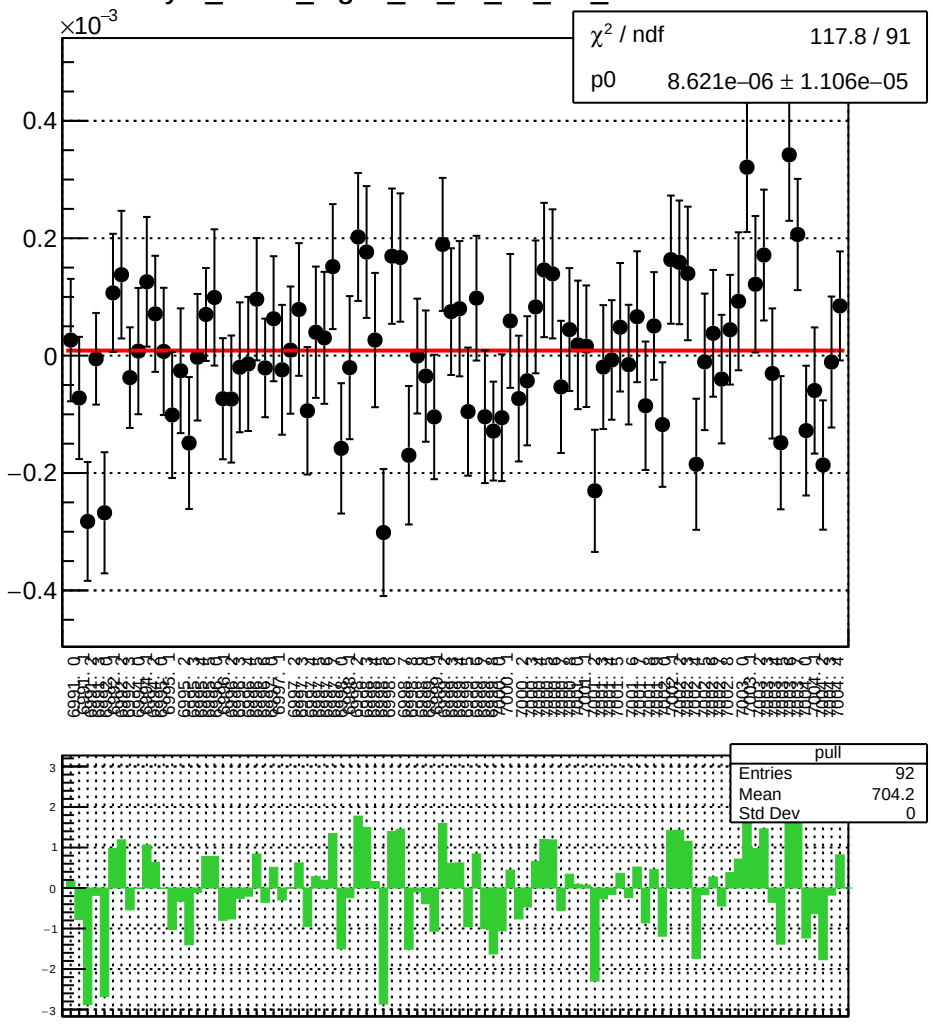

pull1D
Entries 92
Mean 0.005483
Std Dev 0.9792

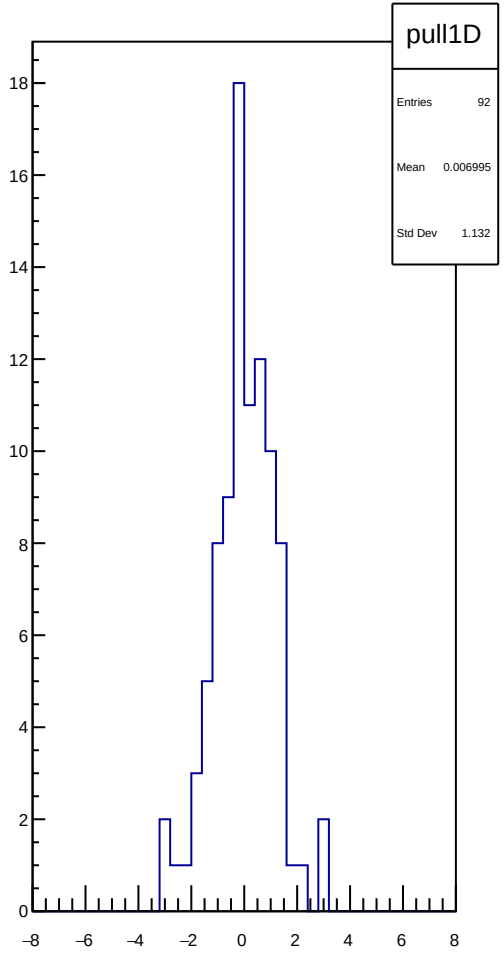

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.997e+04 / 91
p0 113.8 ± 0.08636
150
140
130
120
110
100
90

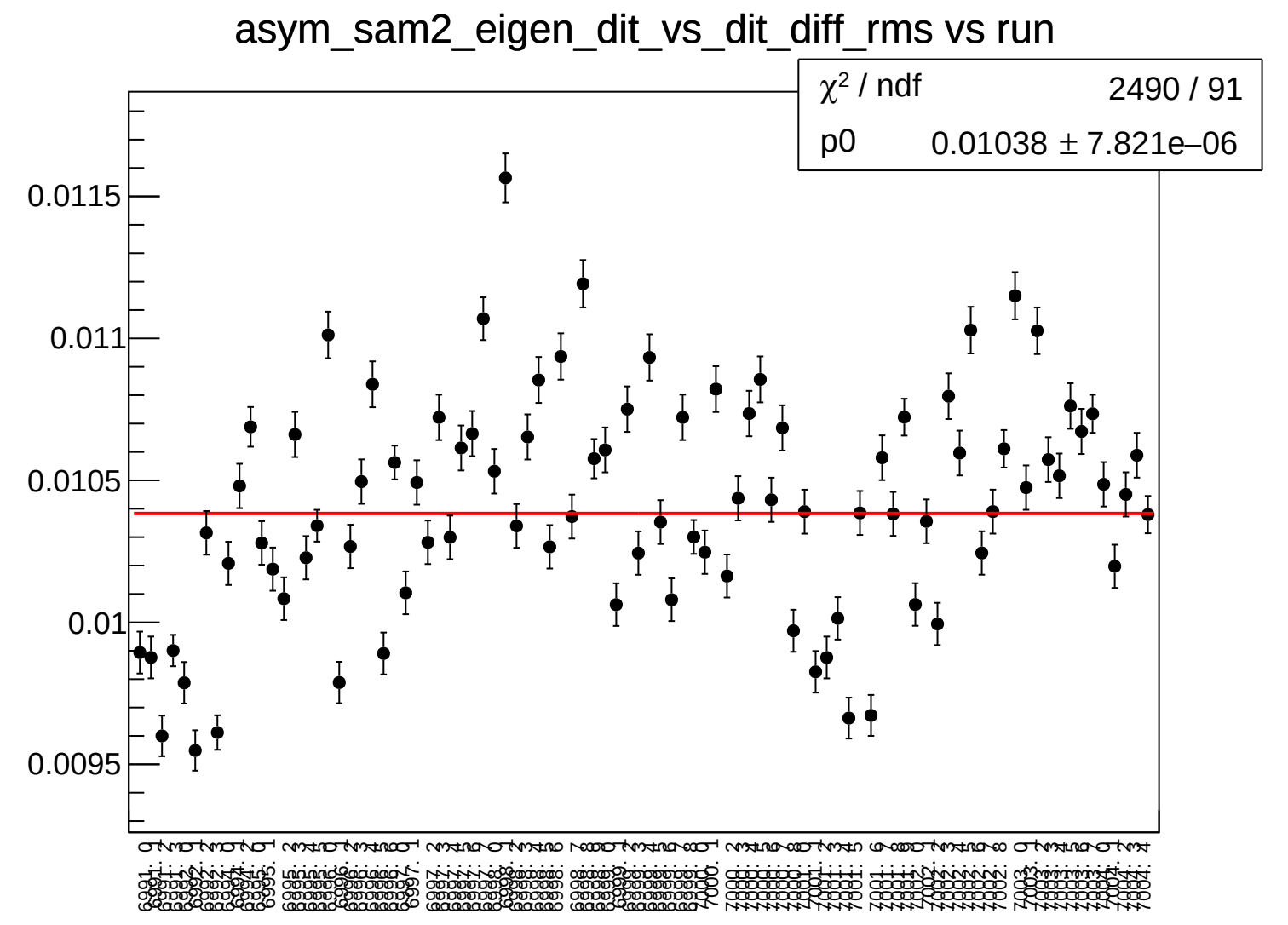

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.21 / 91
p0 −0.08182 ± 0.1221
pull
Entries 92
Mean 260.2
Std Dev 0

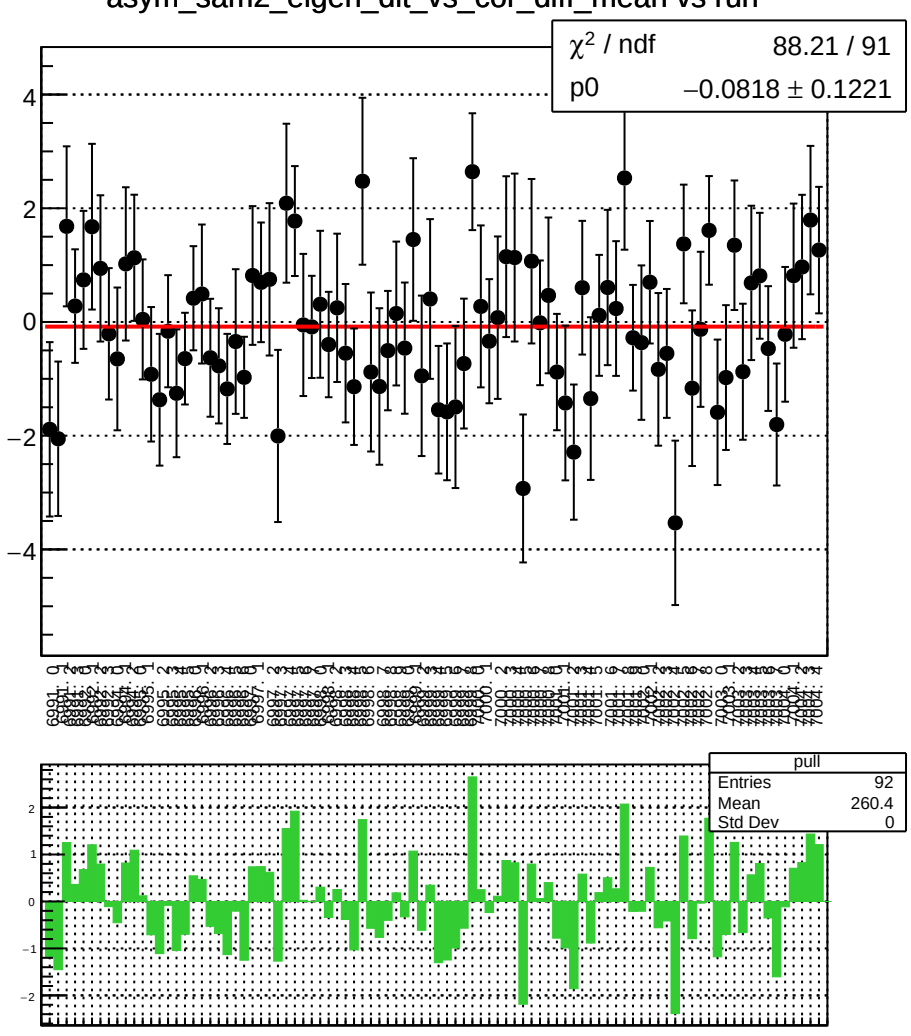

pull1D
Entries 92
Mean 0.005483
Std Dev 0.9792

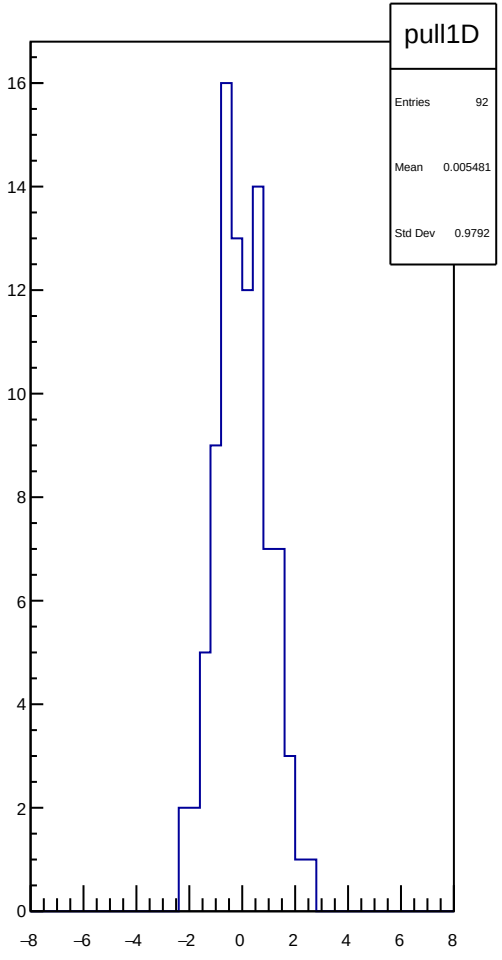

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.997e+04 / 91
p0 113.8 ± 0.08636
150
140
130
120
110
100
90

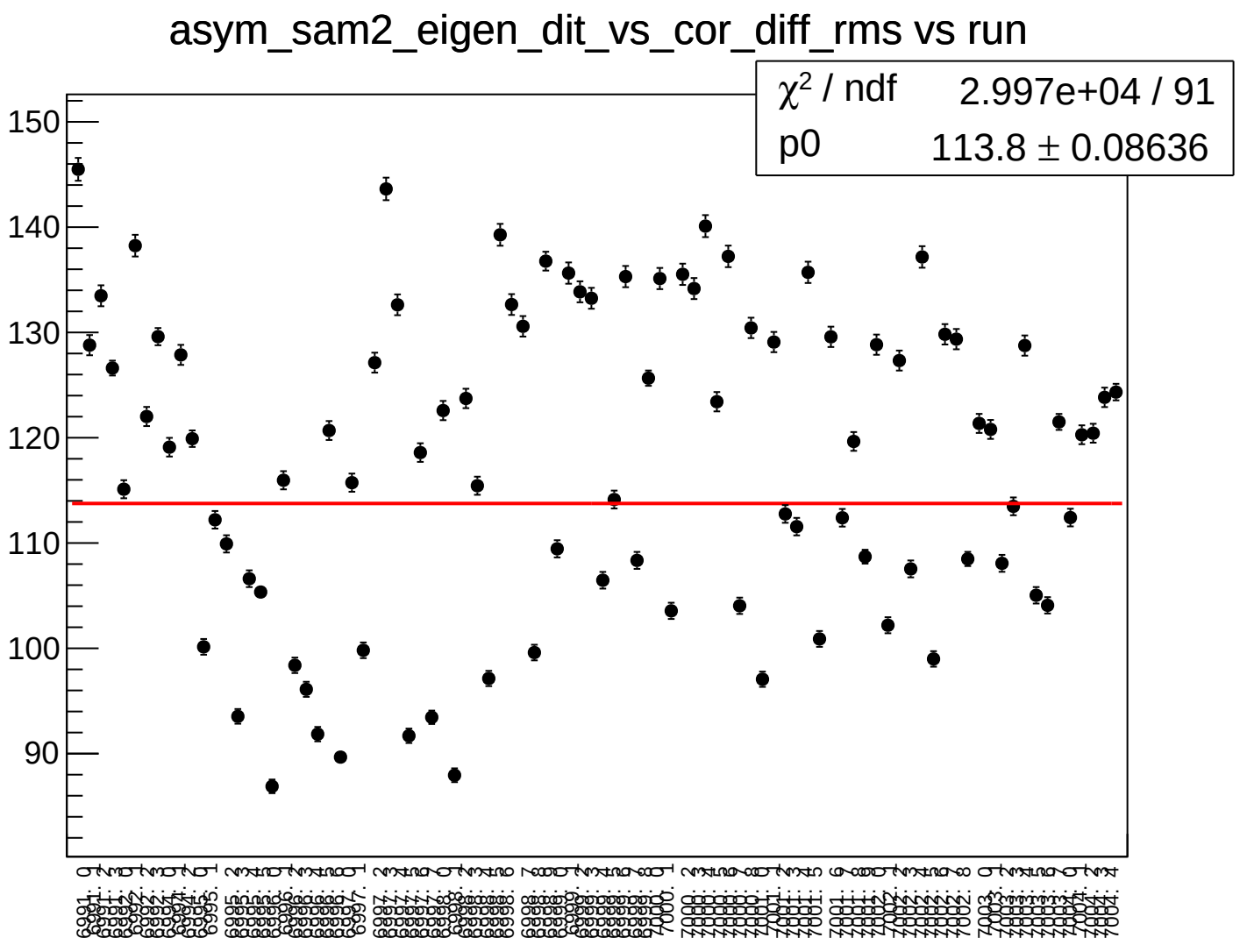

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.8 / 91
p0 8.621e−06 ± 1.106e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 704.2
Std Dev 0
3
2
1
0
−1
−2
−3

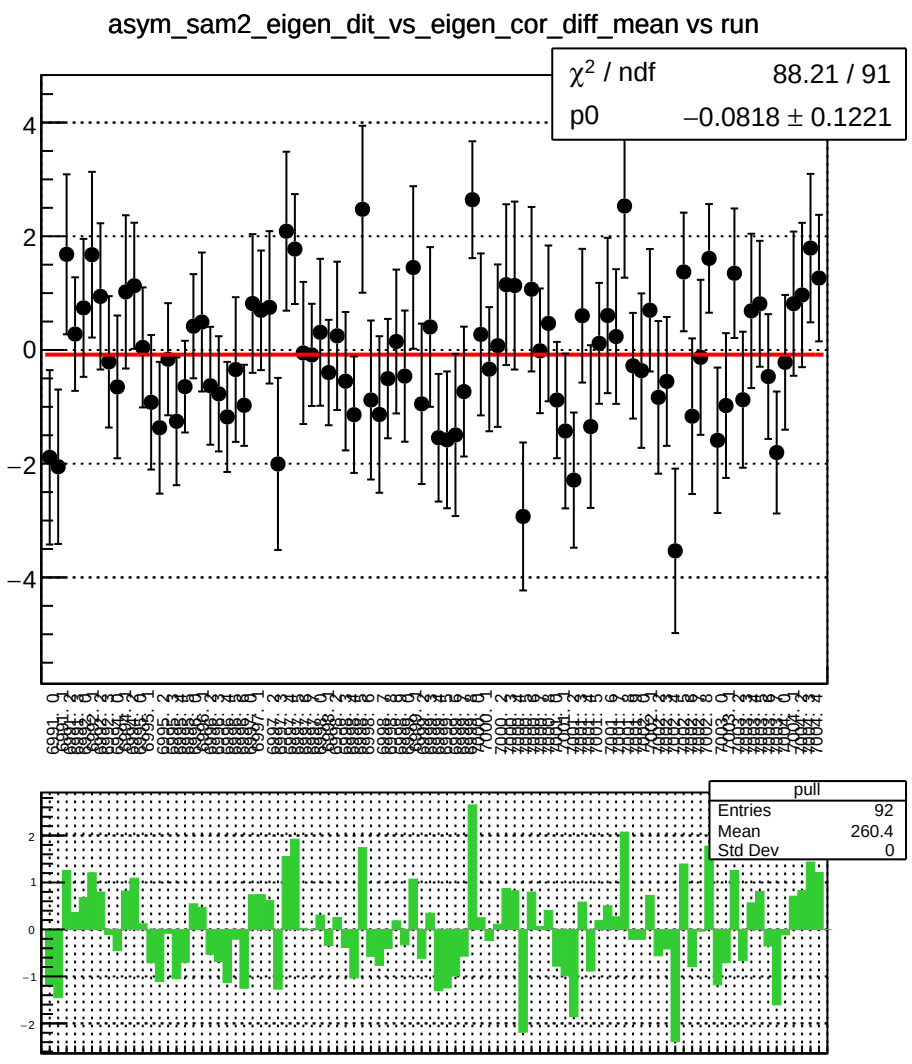

pull1D
Entries 92
Mean 0.006995
Std Dev 1.132
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

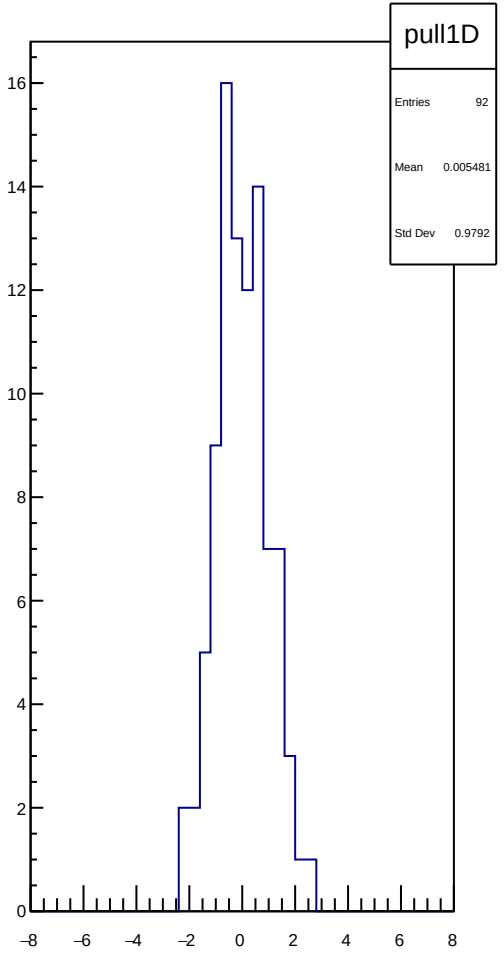

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2490 / 91
p0 0.01038 ± 7.821e−06
0.0115
0.011
0.0105
0.01
0.0095

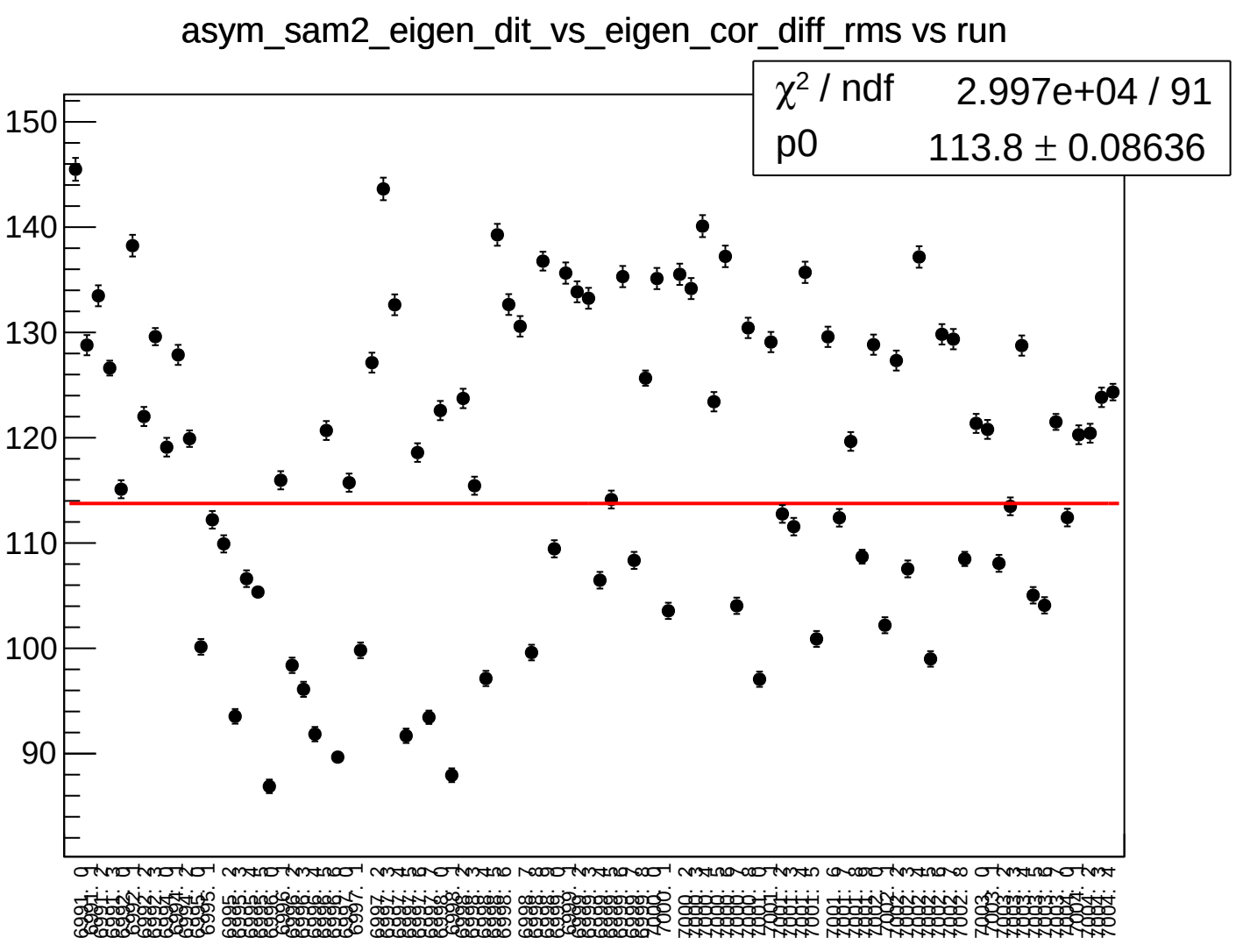

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.21 / 91
p0 −0.0818 ± 0.1221
pull
Entries 92
Mean 260.4
Std Dev 0

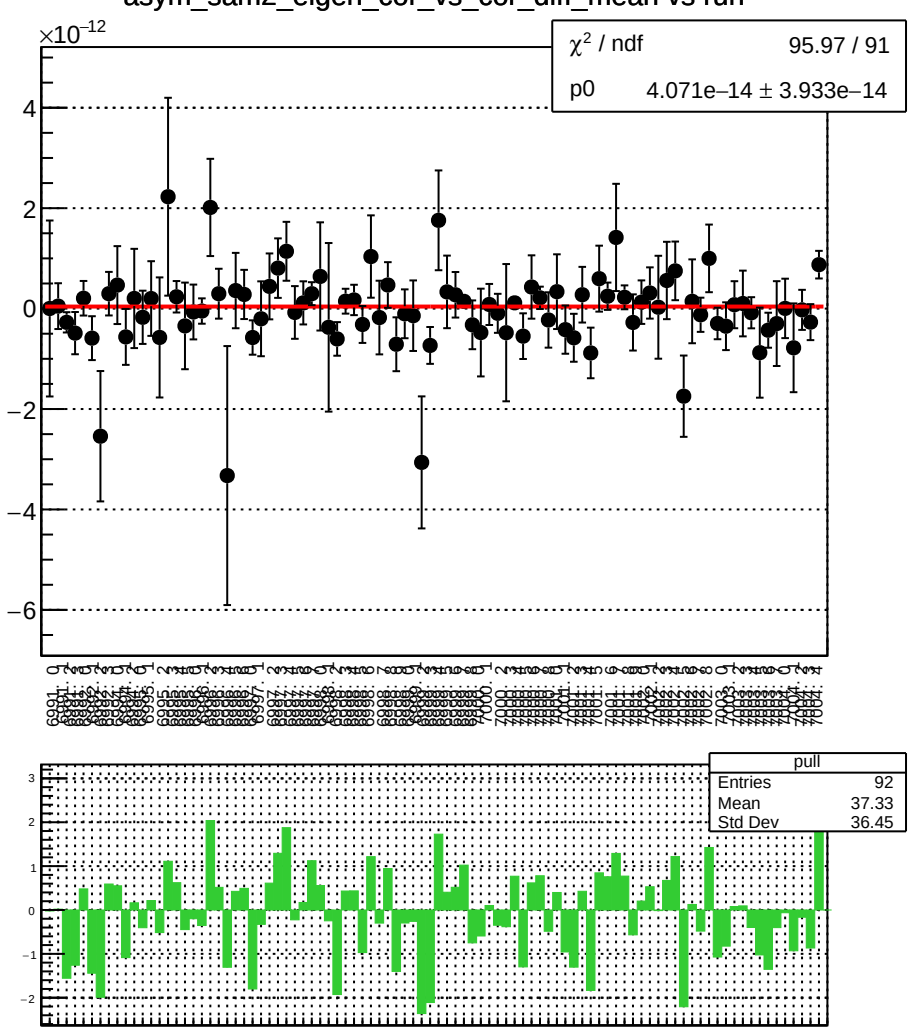

pull1D
Entries 92
Mean 0.005481
Std Dev 0.9792

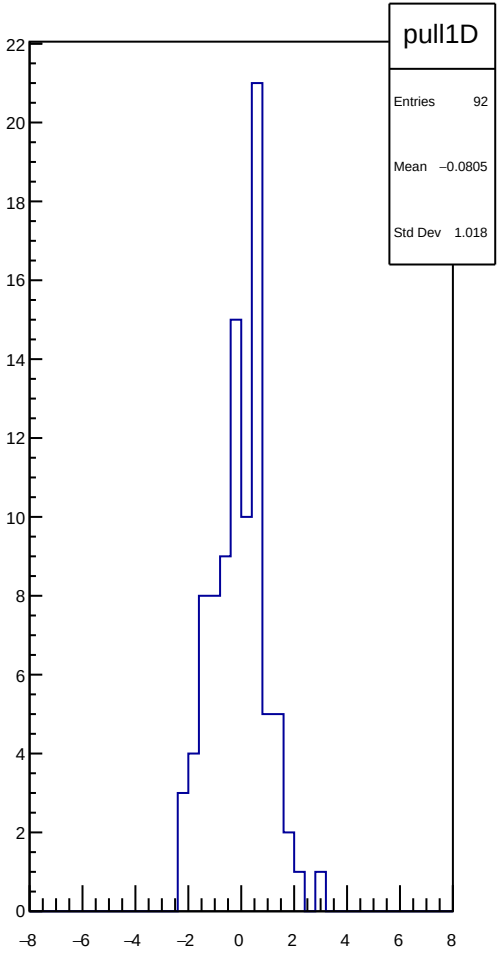

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.997e+04 / 91
p0 113.8 ± 0.08636
150
140
130
120
110
100
90

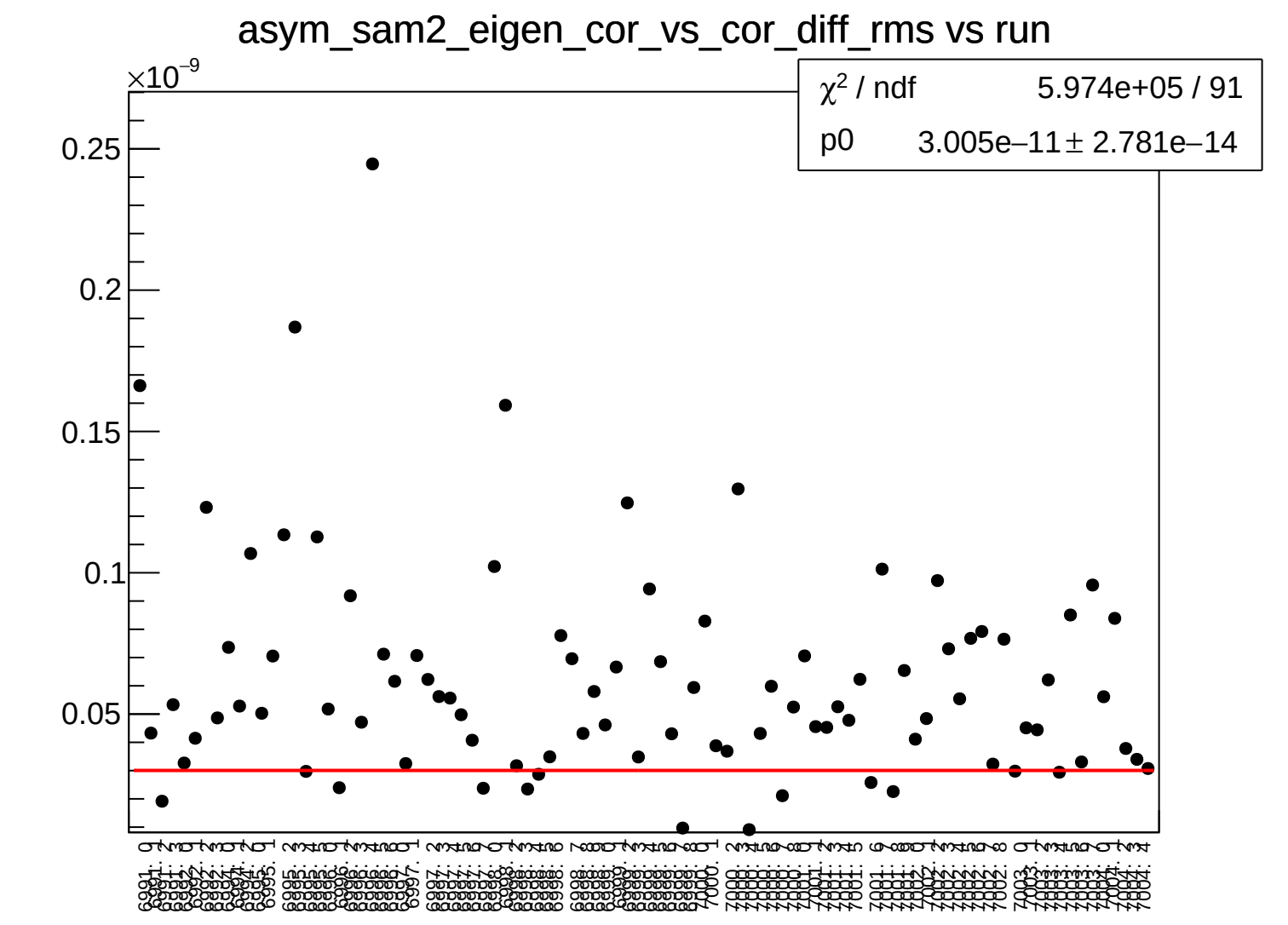

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.21 / 91
p0 −0.0818 ± 0.1221
pull
Entries 92
Mean 260.4
Std Dev 0

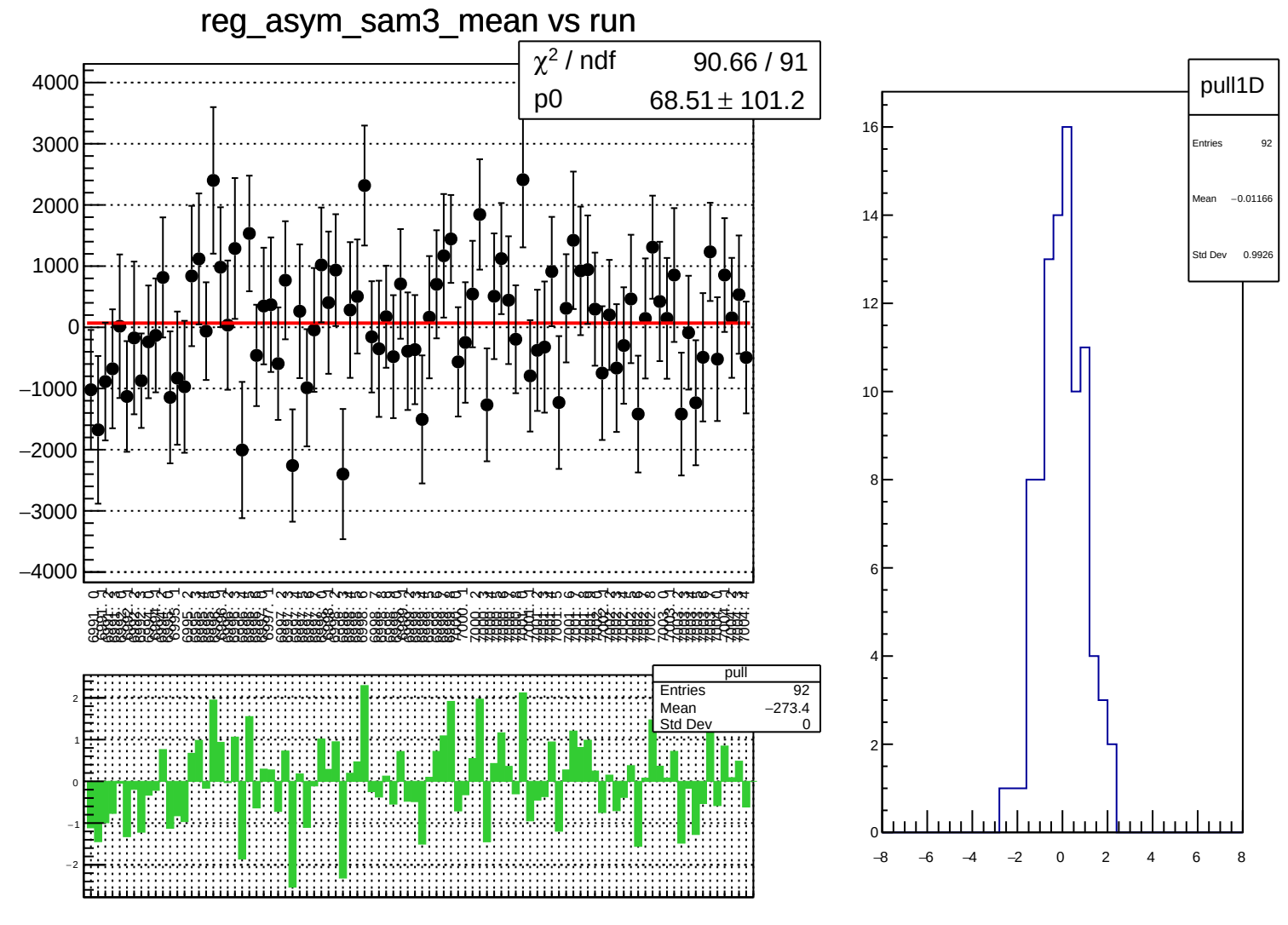

pull1D
Entries 92
Mean 0.005481
Std Dev 0.9792

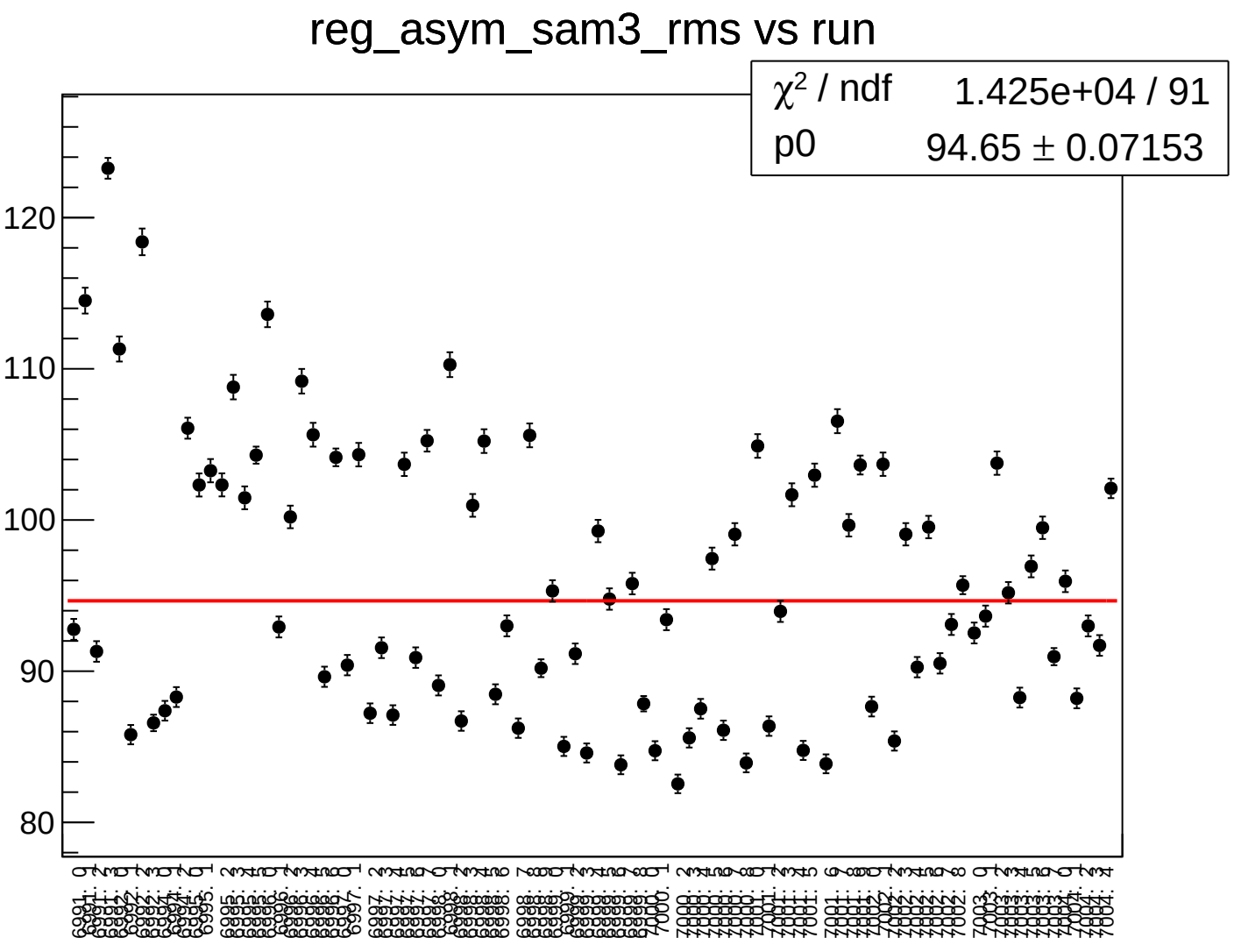

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.997e+04 / 91
p0 113.8 ± 0.08636
150
140
130
120
110
100
90

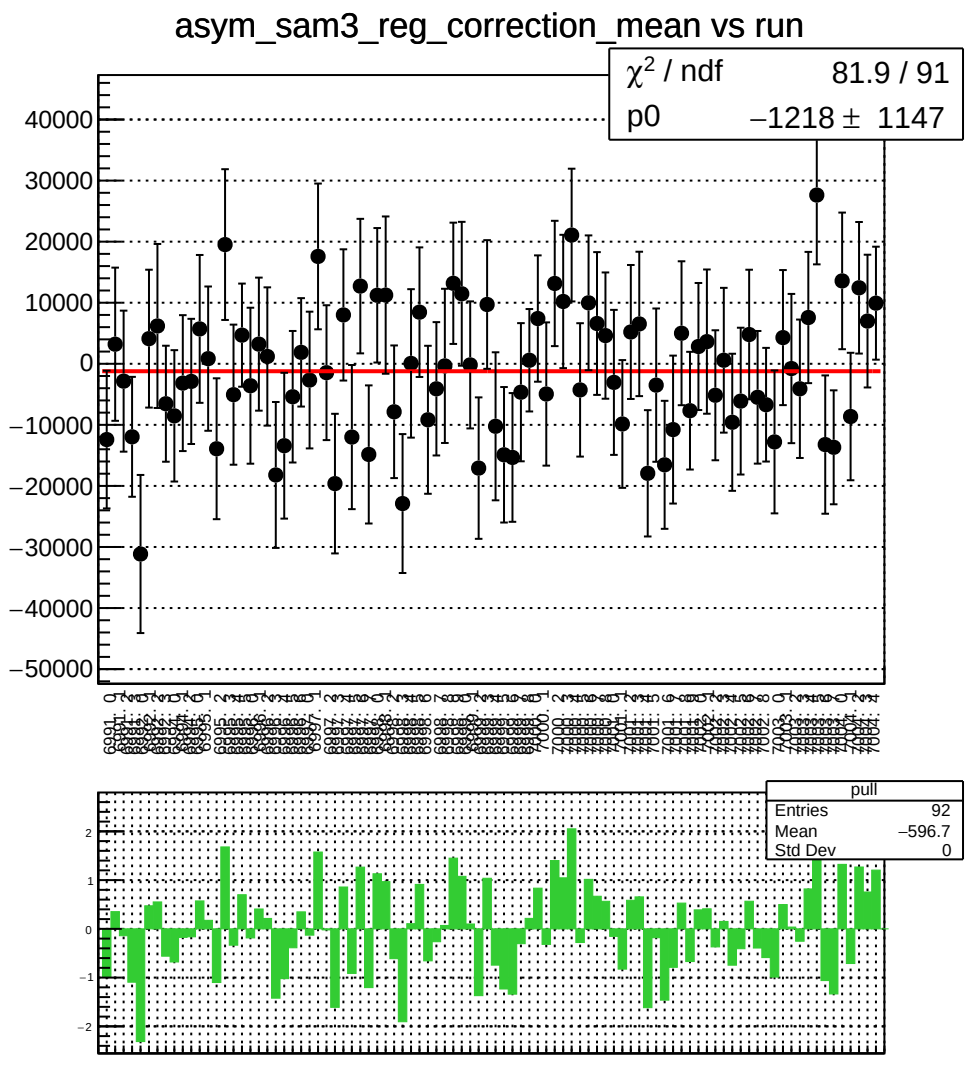

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.97 / 91
p0 4.071e−14 ± 3.933e−14
pull
Entries 92
Mean 37.33
Std Dev 36.45

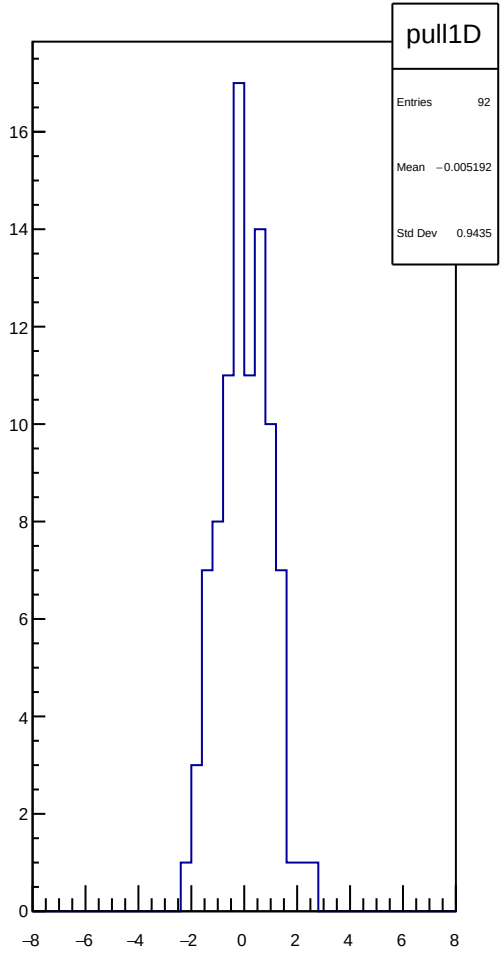

pull1D
Entries 92
Mean −0.0805
Std Dev 1.018

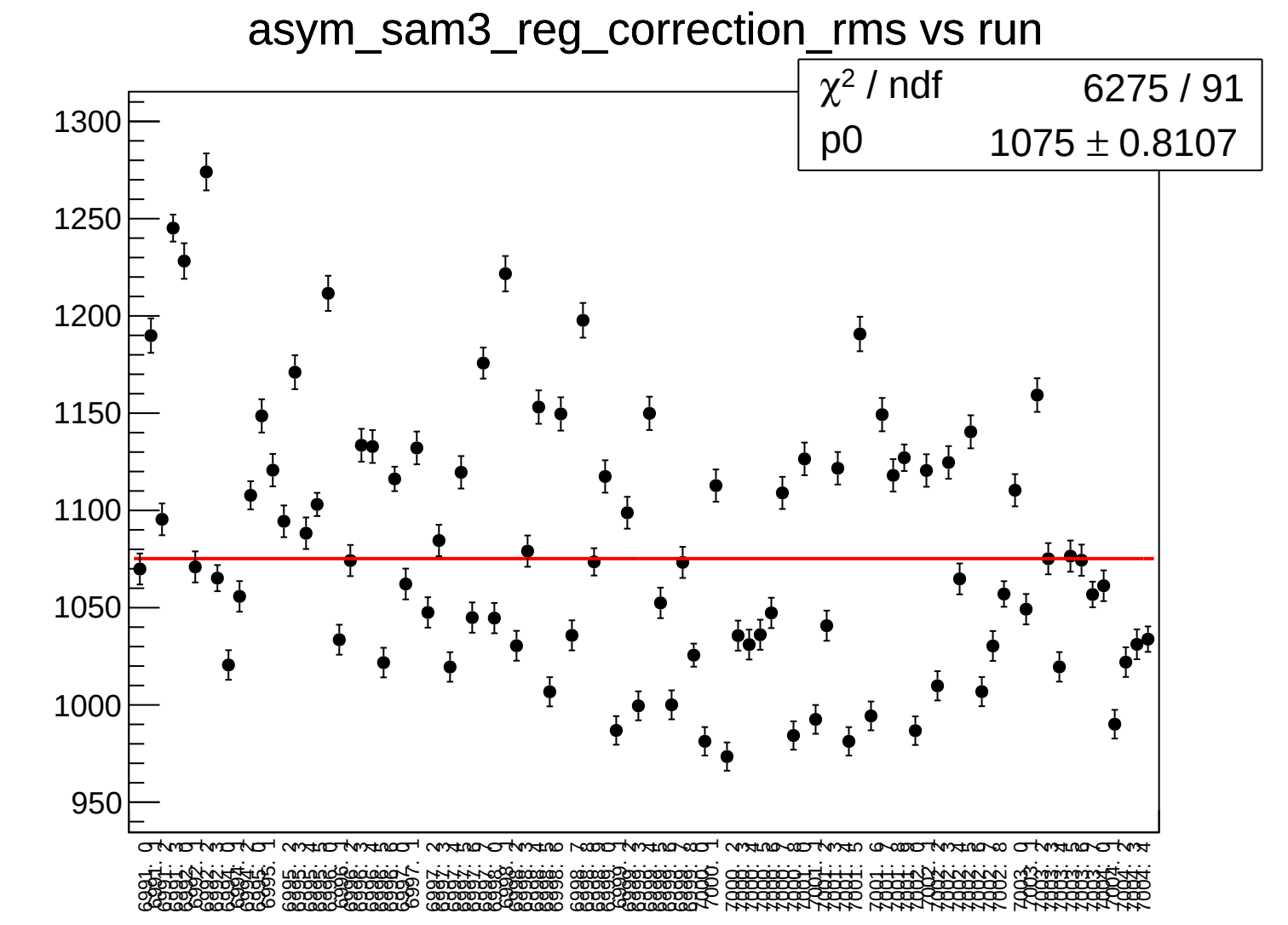

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.974e+05 / 91
p0 3.005e−11 ± 2.781e−14
0.25
0.2
0.15
0.1
0.05

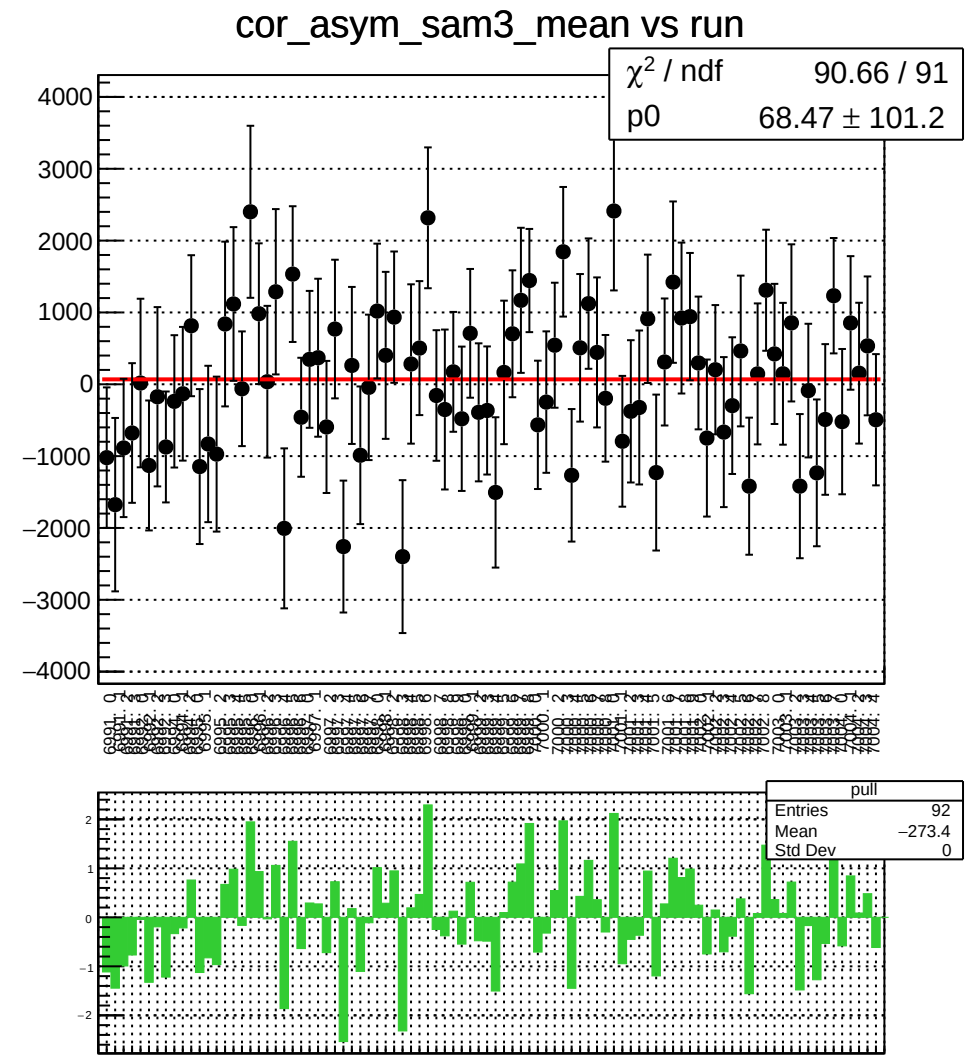

reg_asym_sam3_mean vs run
χ² / ndf 90.66 / 91
p0 68.51 ± 101.2
pull
Entries 92
Mean −273.4
Std Dev 0
pull1D
Entries 92
Mean −0.01166
Std Dev 0.9926

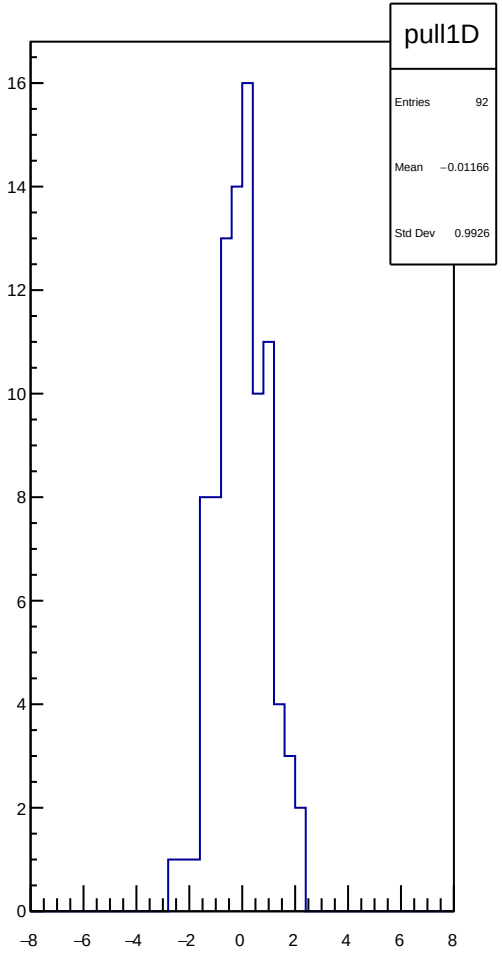

reg_asym_sam3_rms vs run
χ² / ndf 1.425e+04 / 91
p0 94.65 ± 0.07153
120
110
100
90
80

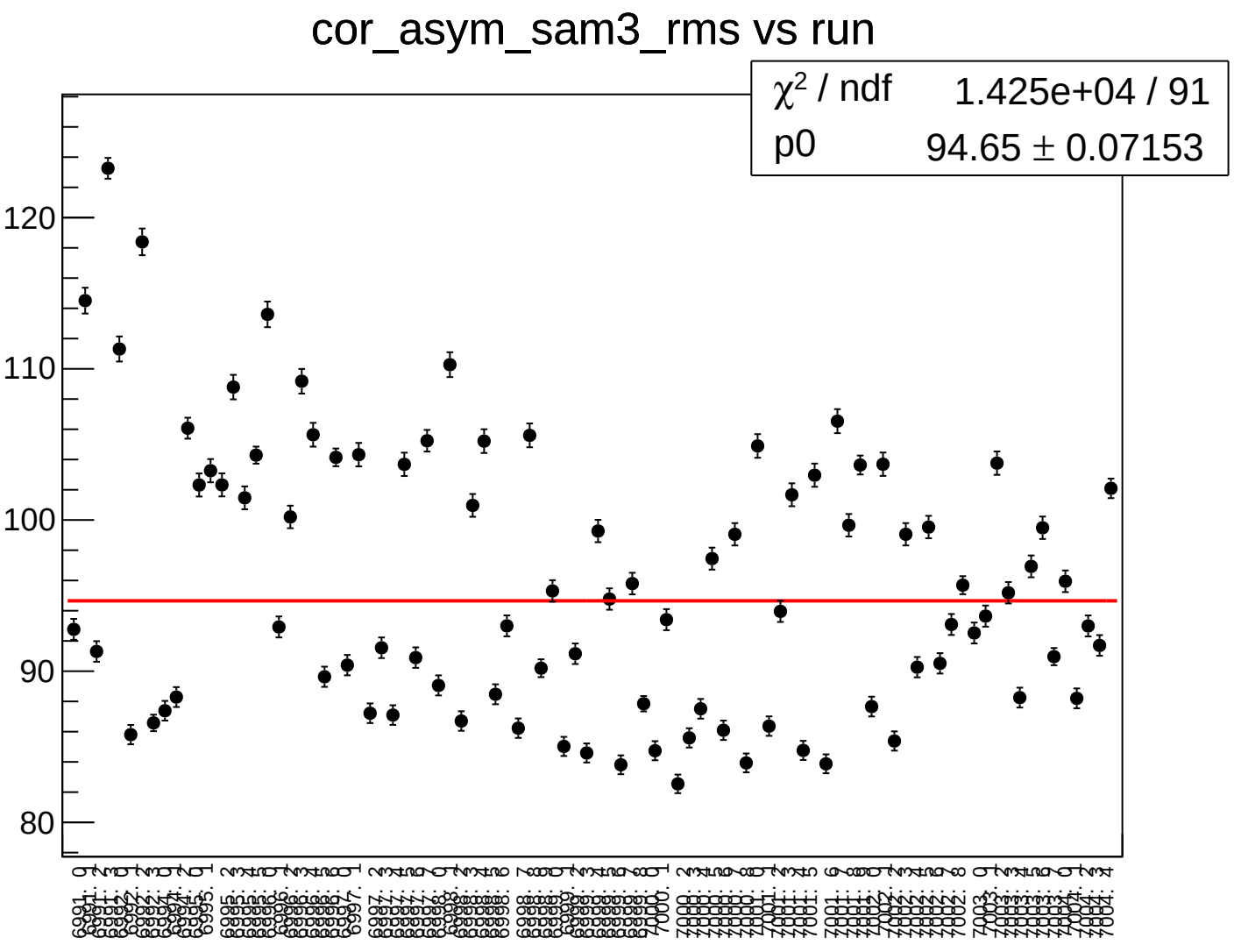

asym_sam3_reg_correction_mean vs run
χ² / ndf 81.9 / 91
p0 −1218 ± 1147
pull
Entries 92
Mean −596.7
Std Dev 0

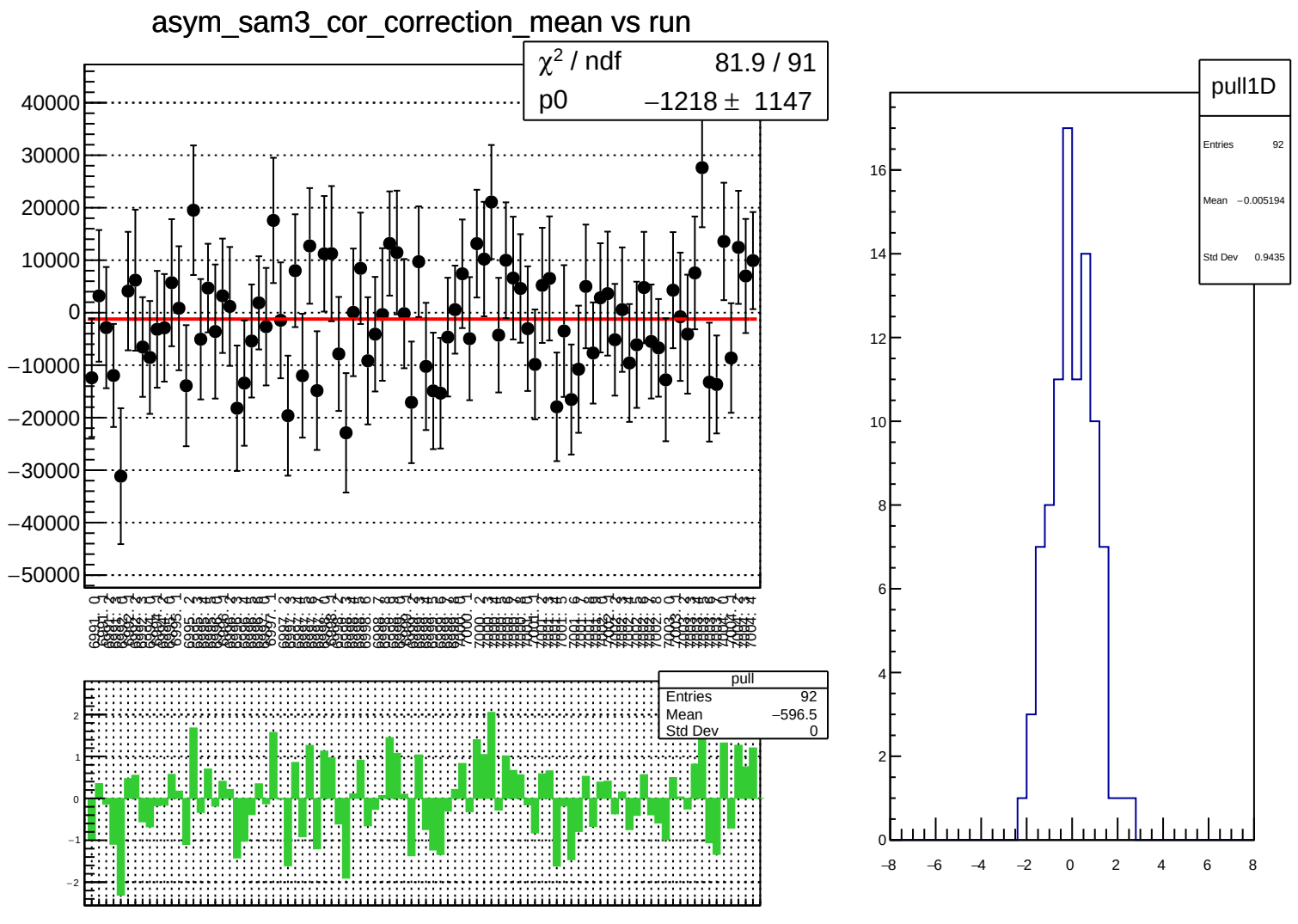

pull1D
Entries 92
Mean −0.005192
Std Dev 0.9435

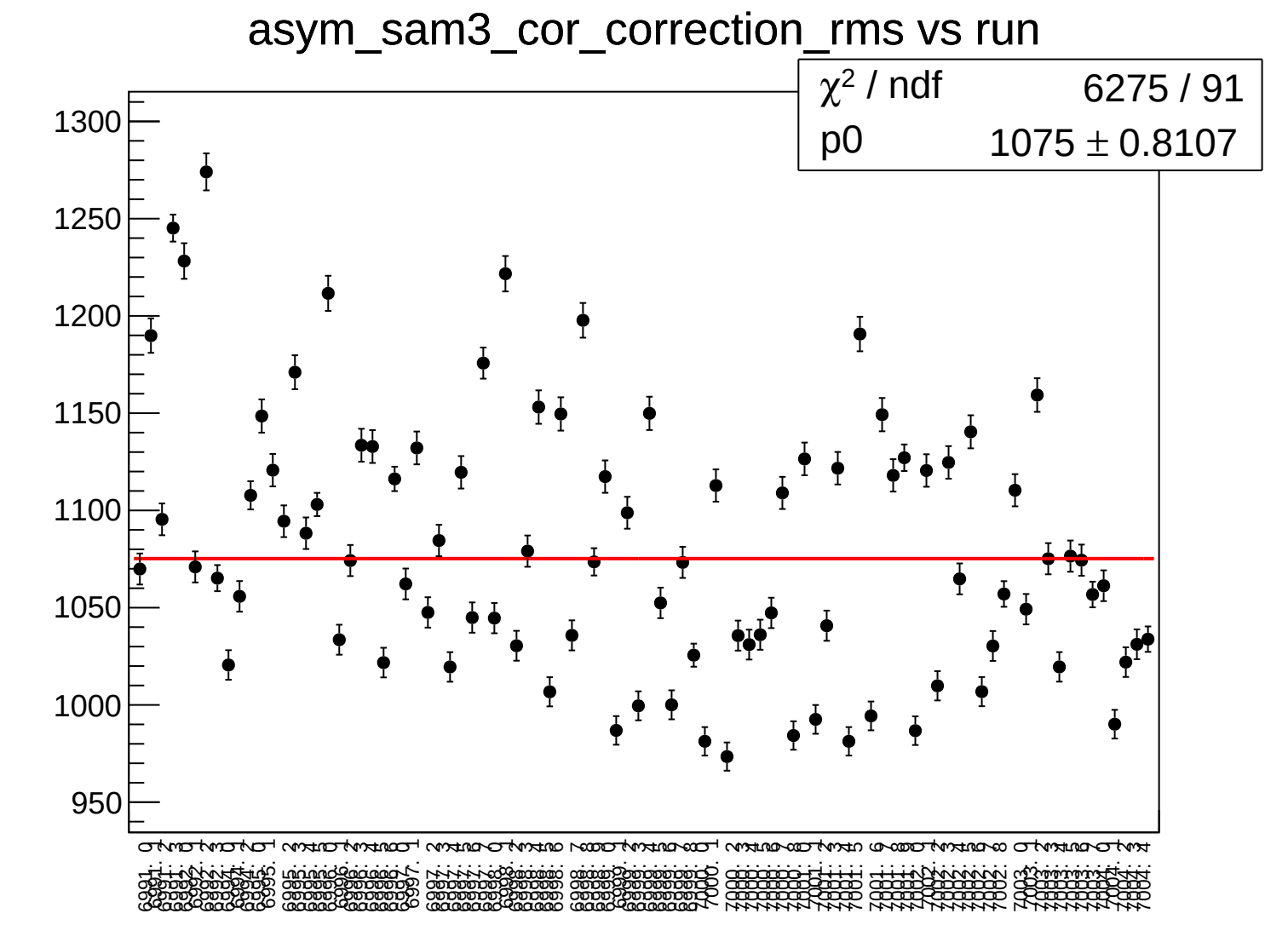

asym_sam3_reg_correction_rms vs run
χ² / ndf 6275 / 91
p0 1075 ± 0.8107
1300
1250
1200
1150
1100
1050
1000
950

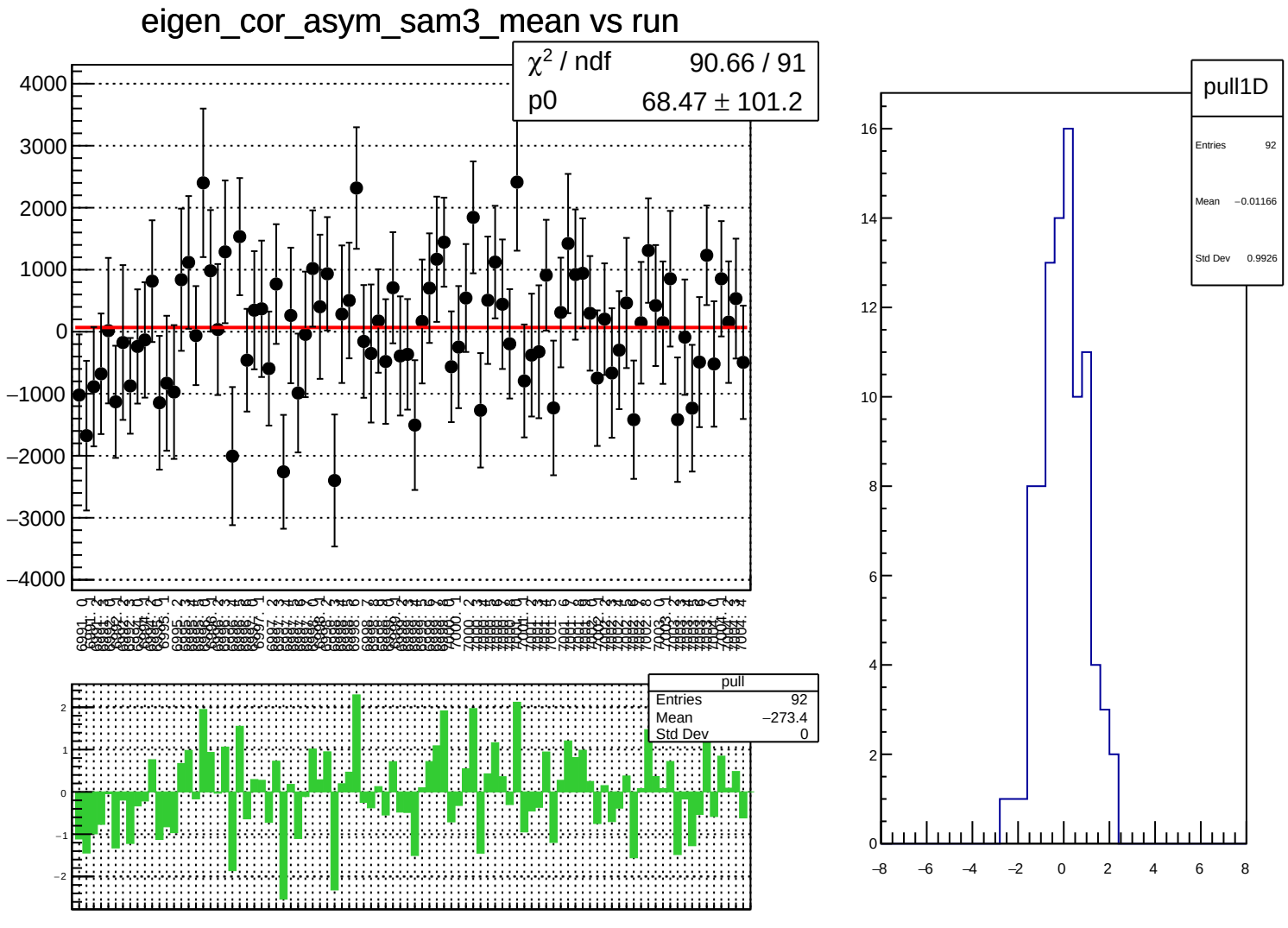

cor_asym_sam3_mean vs run
χ² / ndf 90.66 / 91
p0 68.47 ± 101.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −273.4
Std Dev 0
2
1
0
−1
−2

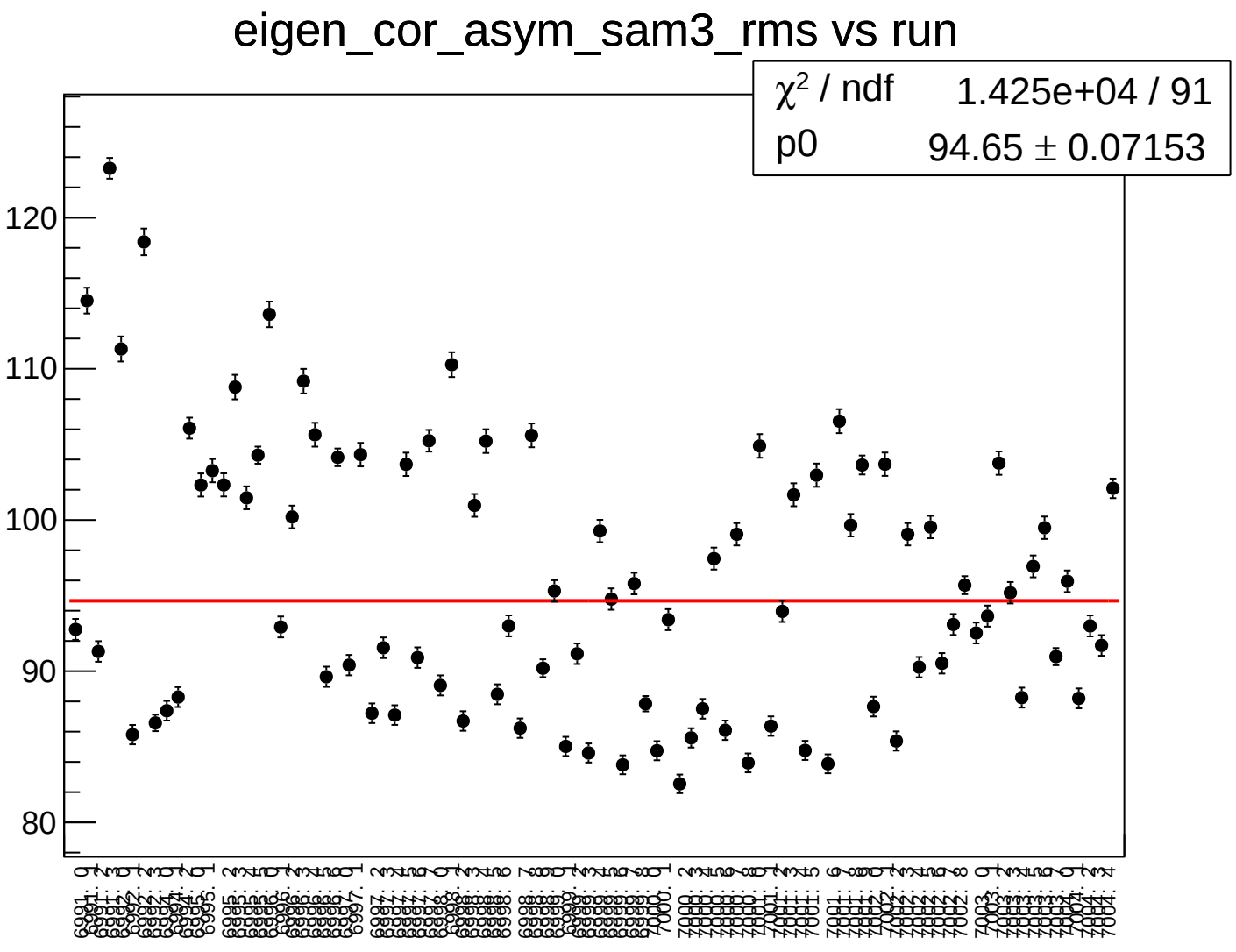

pull1D
Entries 92
Mean −0.01166
Std Dev 0.9926
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

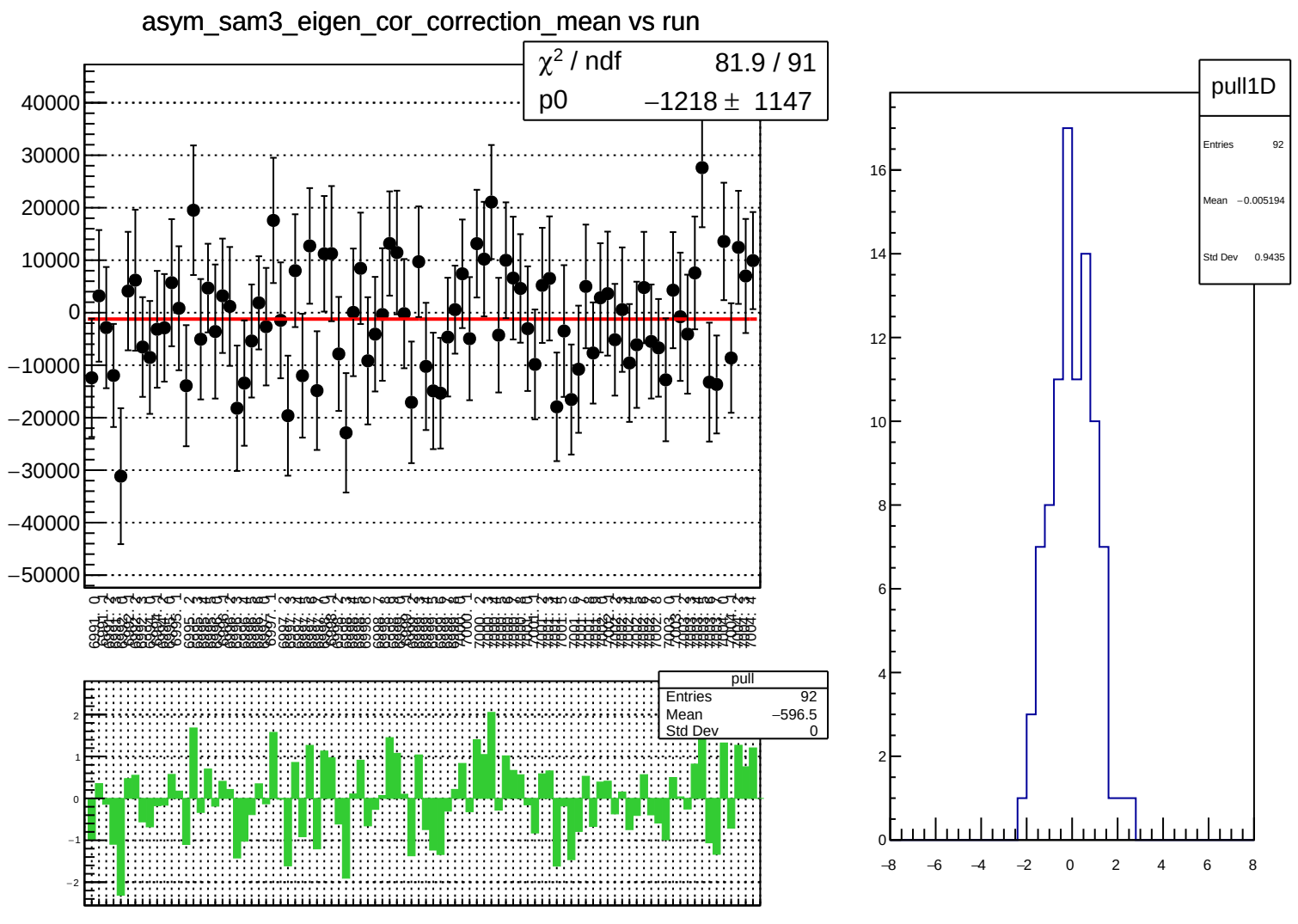

cor_asym_sam3_rms vs run
χ² / ndf 1.425e+04 / 91
p0 94.65 ± 0.07153
120
110
100
90
80

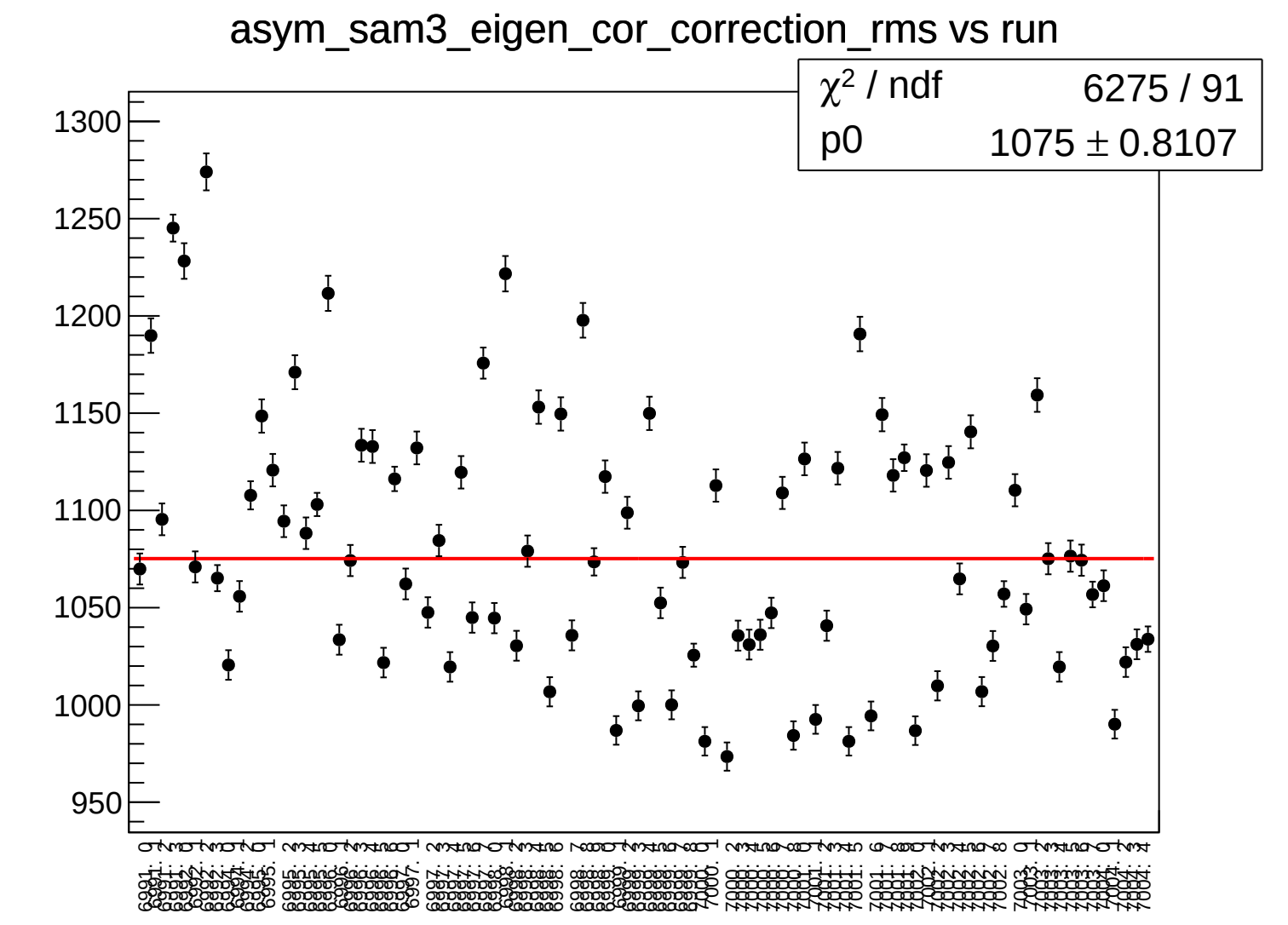

asym_sam3_cor_correction_mean vs run
χ² / ndf 81.9 / 91
p0 −1218 ± 1147
pull
Entries 92
Mean −596.5
Std Dev 0
pull1D
Entries 92
Mean −0.005194
Std Dev 0.9435

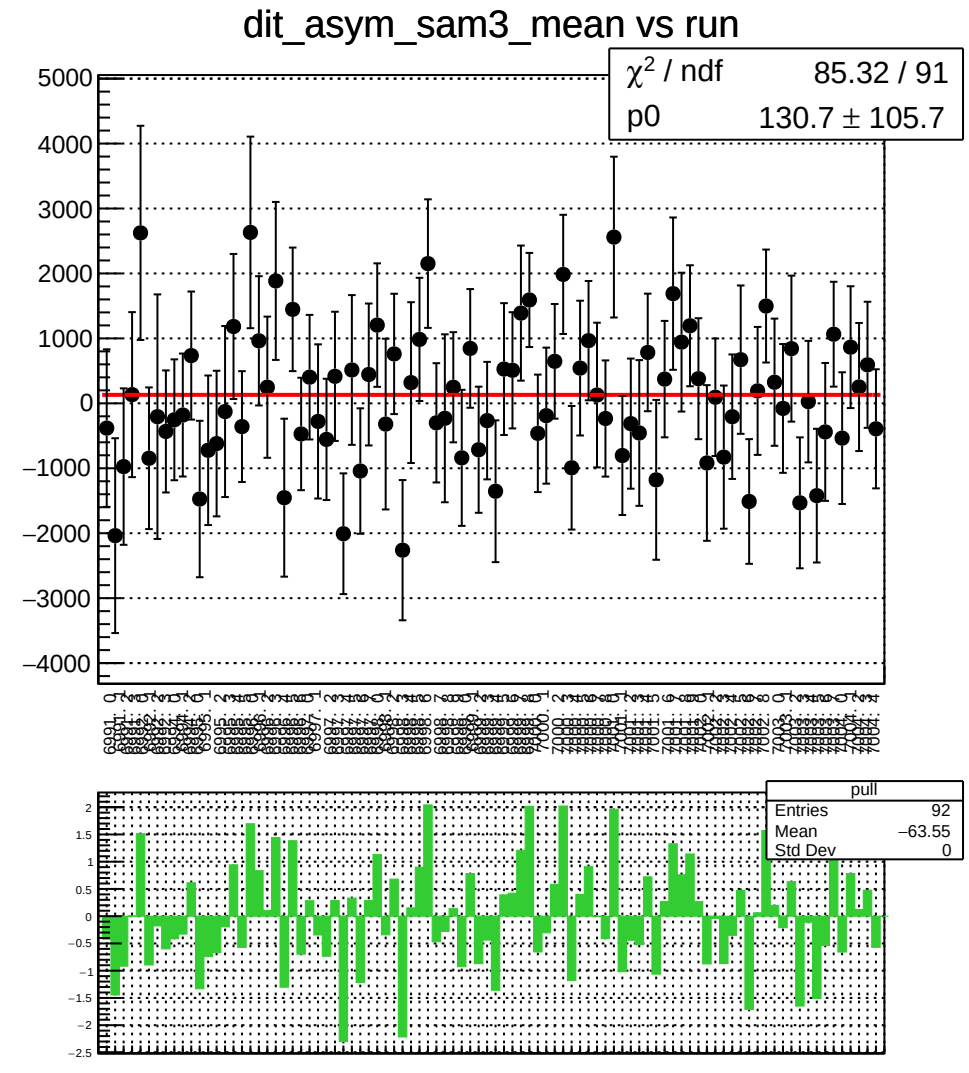

asym_sam3_cor_correction_rms vs run
χ² / ndf 6275 / 91
p0 1075 ± 0.8107
1300
1250
1200
1150
1100
1050
1000
950

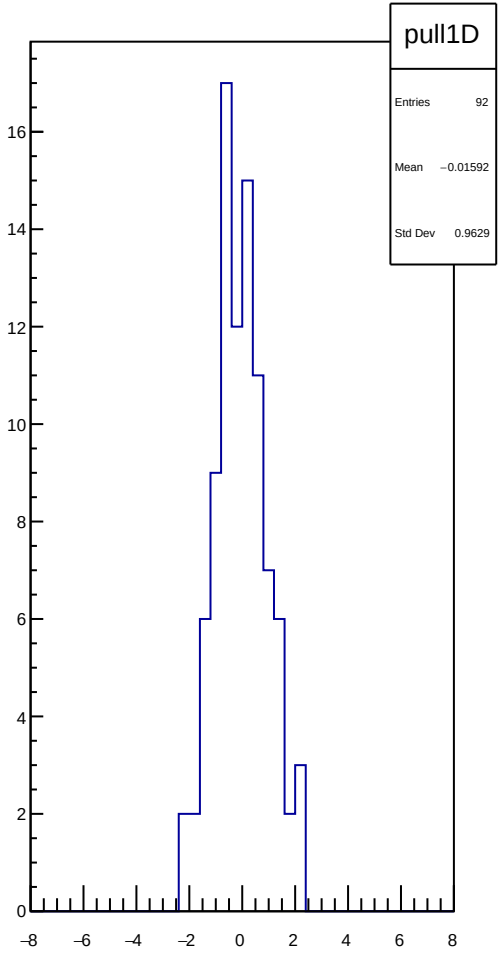

eigen_cor_asym_sam3_mean vs run
χ² / ndf 90.66 / 91
p0 68.47 ± 101.2
pull
Entries 92
Mean −273.4
Std Dev 0
pull1D
Entries 92
Mean −0.01166
Std Dev 0.9926

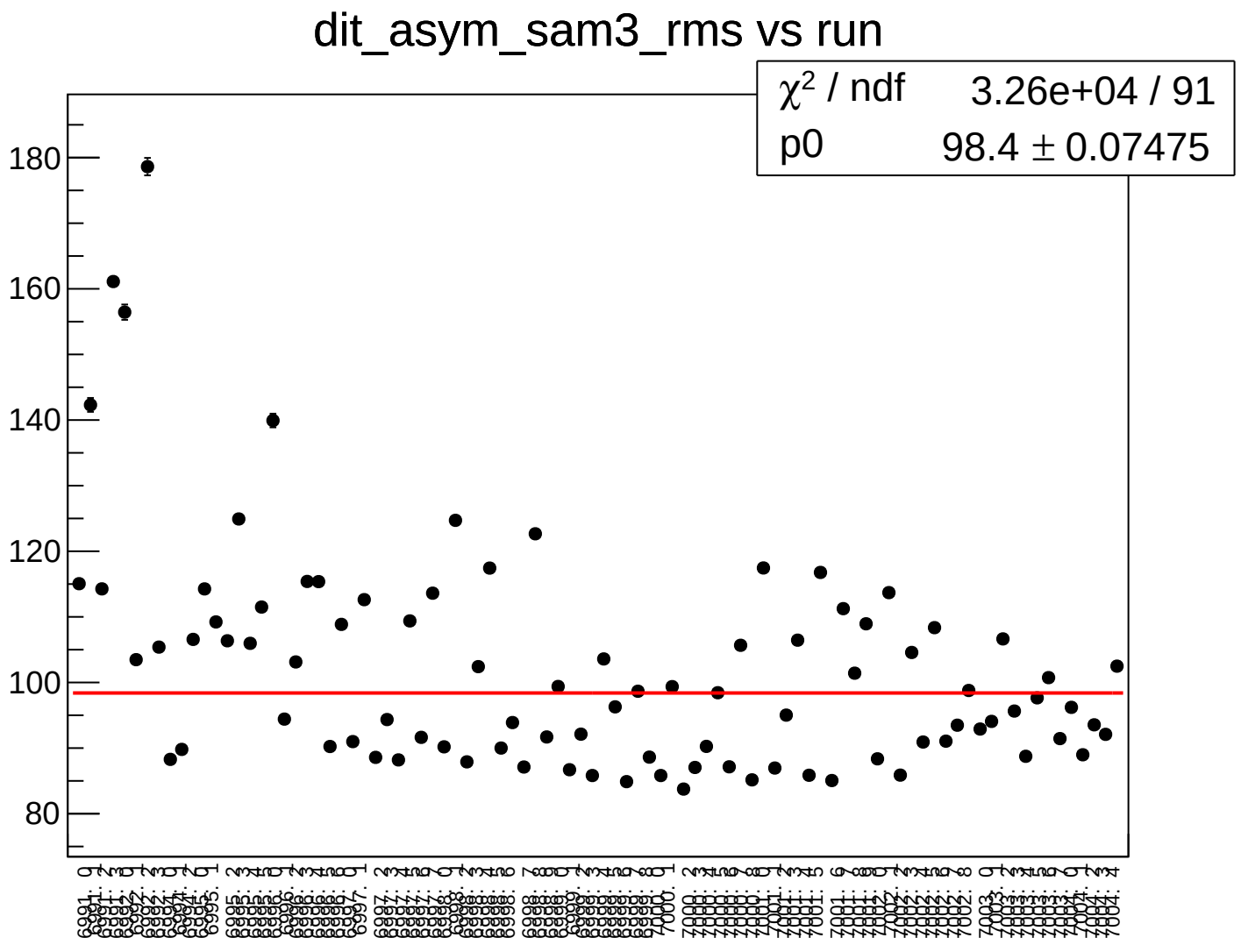

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.425e+04 / 91
p0 94.65 ± 0.07153
120
110
100
90
80

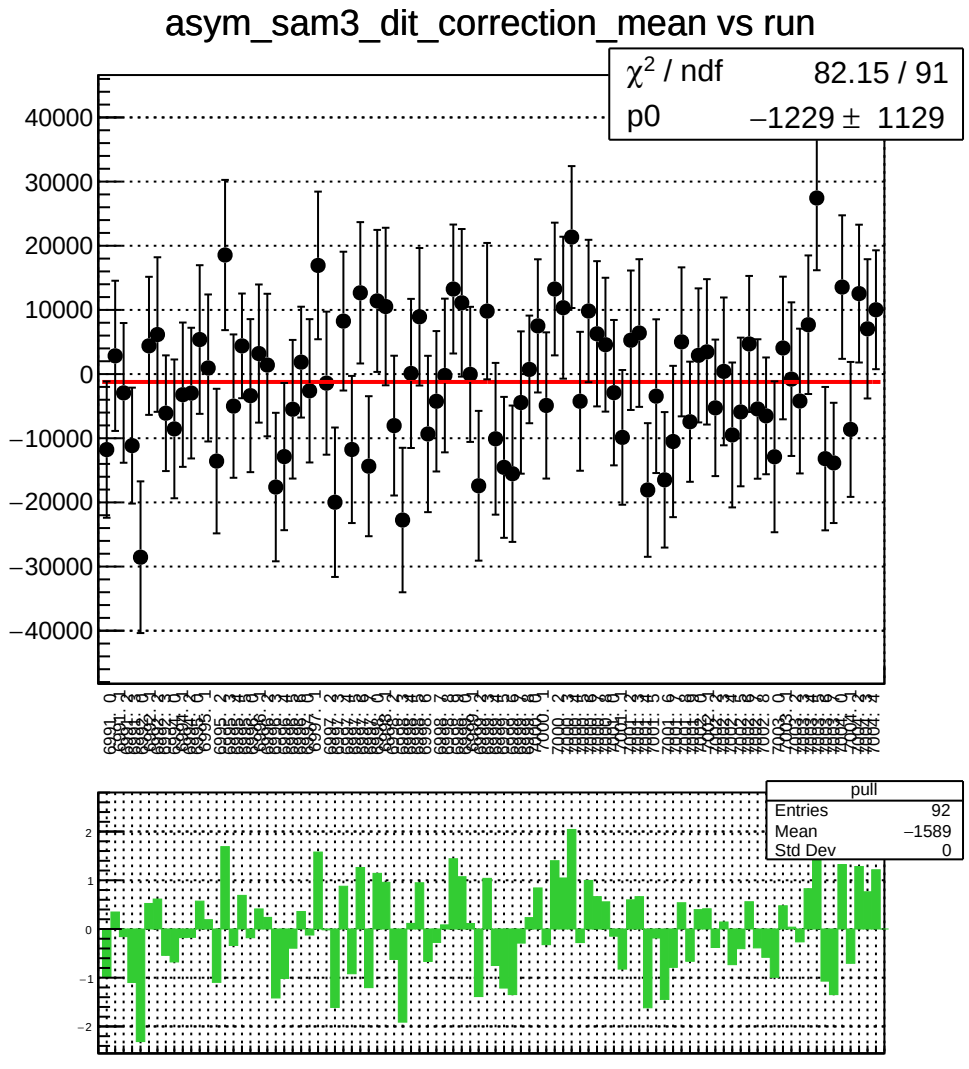

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 81.9 / 91
p0 −1218 ± 1147
pull
Entries 92
Mean −596.5
Std Dev 0
pull1D
Entries 92
Mean −0.005194
Std Dev 0.9435

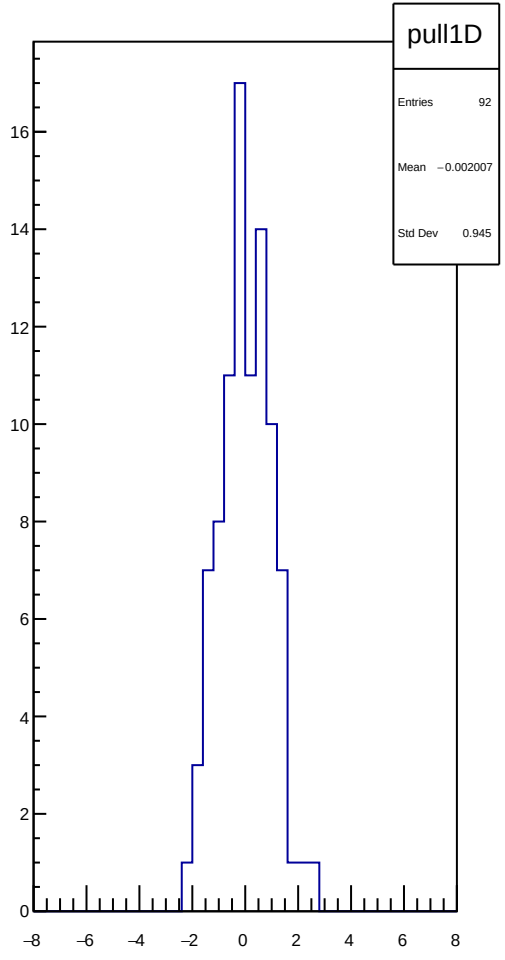

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 6275 / 91
p0 1075 ± 0.8107
1300
1250
1200
1150
1100
1050
1000
950

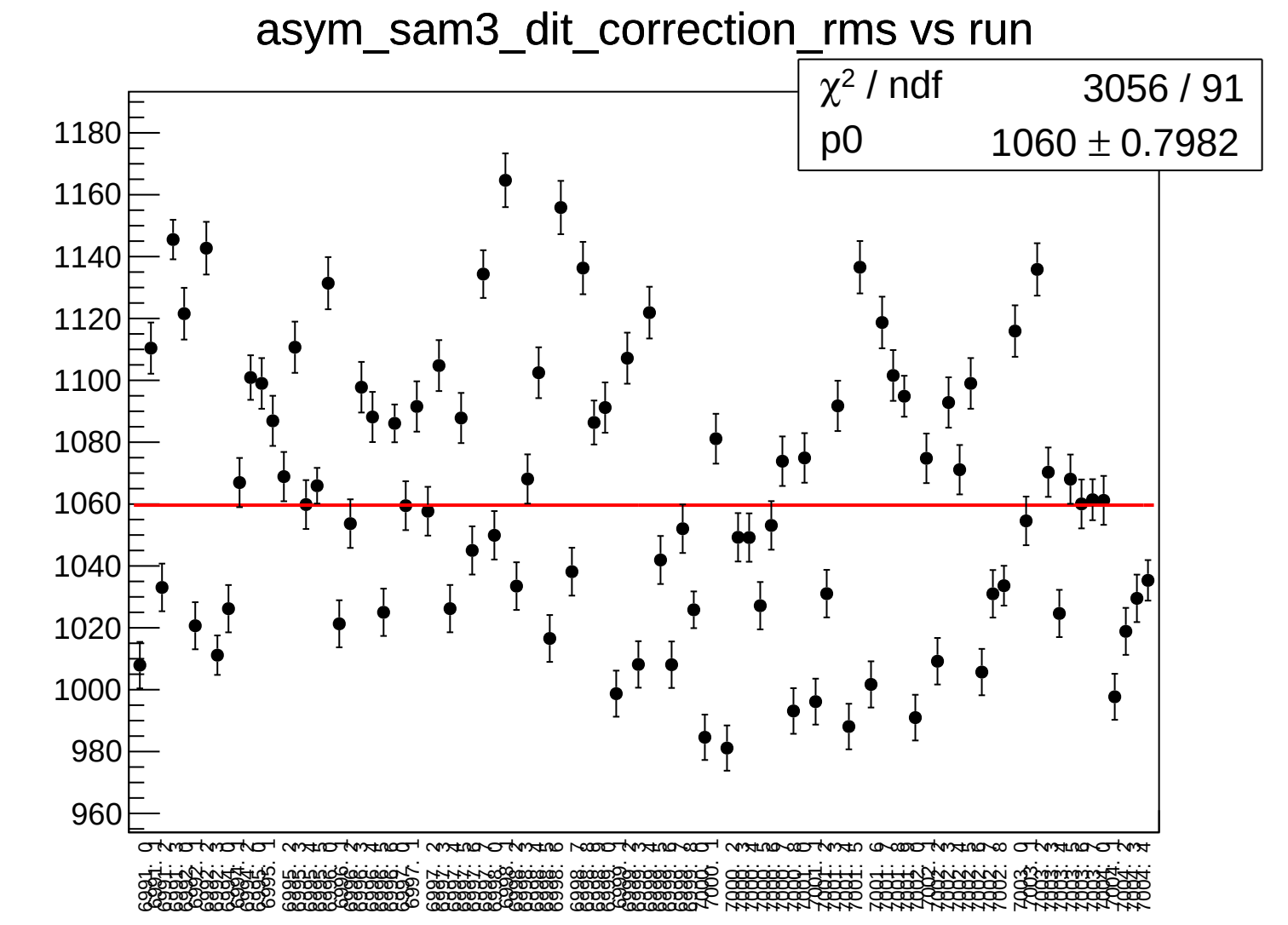

dit_asym_sam3_mean vs run
χ² / ndf 85.32 / 91
p0 130.7 ± 105.7
pull
Entries 92
Mean −63.55
Std Dev 0

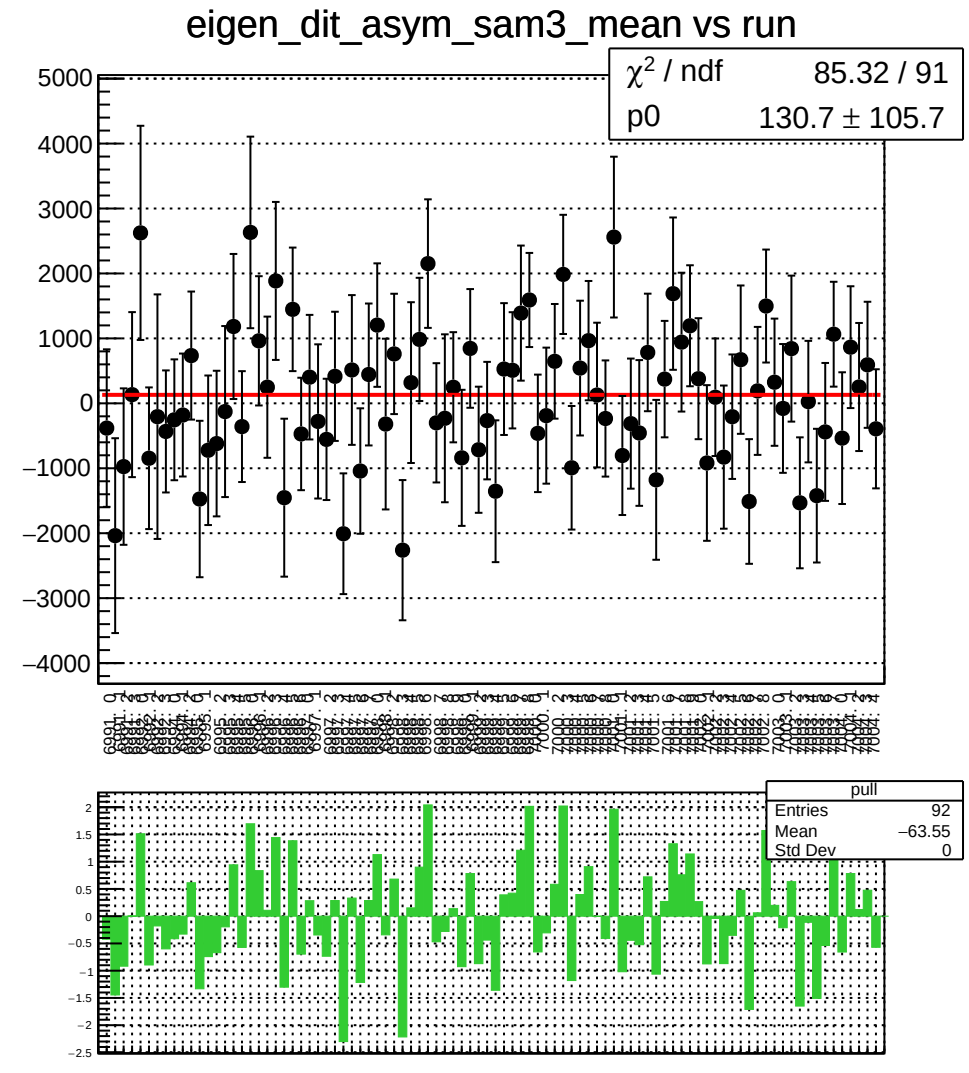

pull1D
Entries 92
Mean −0.01592
Std Dev 0.9629

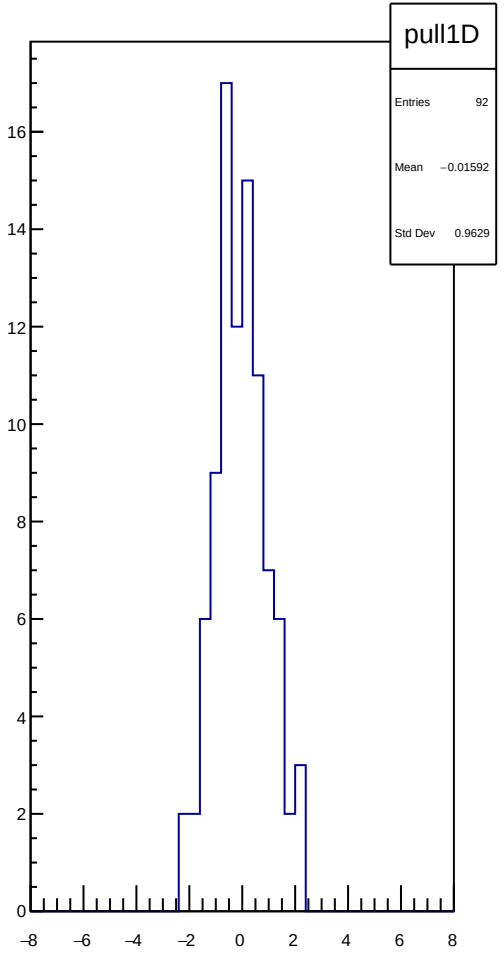

dit_asym_sam3_rms vs run
χ² / ndf 3.26e+04 / 91
p0 98.4 ± 0.07475
180
160
140
120
100
80

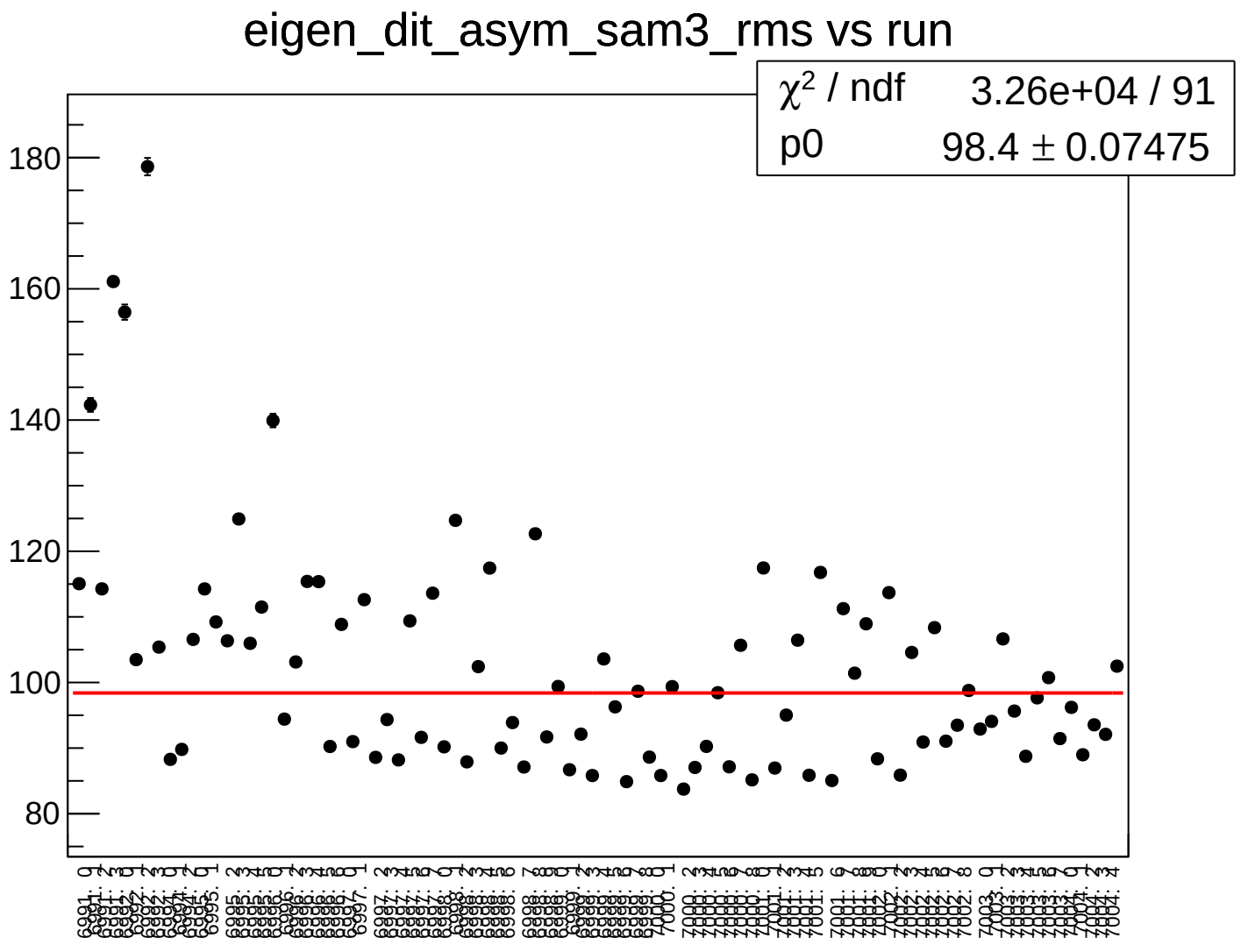

asym_sam3_dit_correction_mean vs run
χ² / ndf 82.15 / 91
p0 −1229 ± 1129
pull
Entries 92
Mean −1589
Std Dev 0

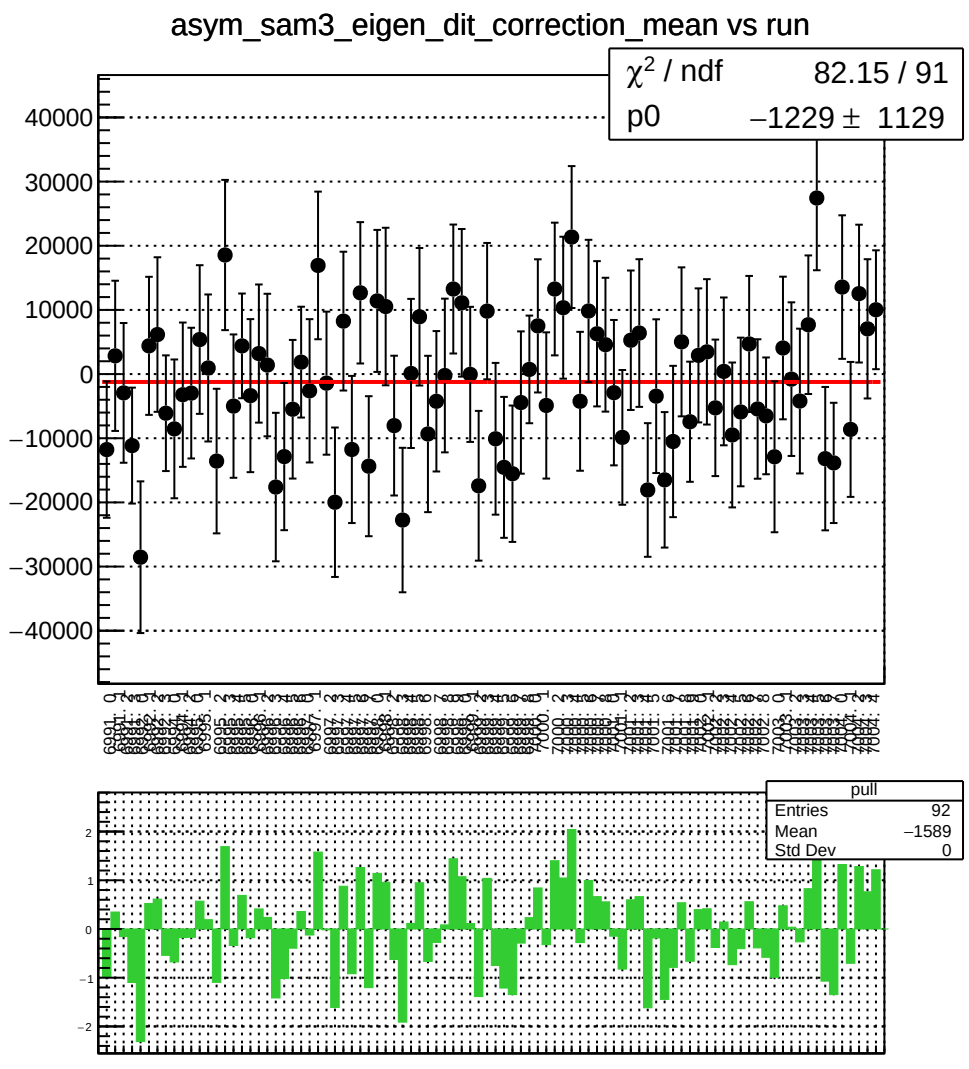

pull1D
Entries 92
Mean −0.002007
Std Dev 0.945

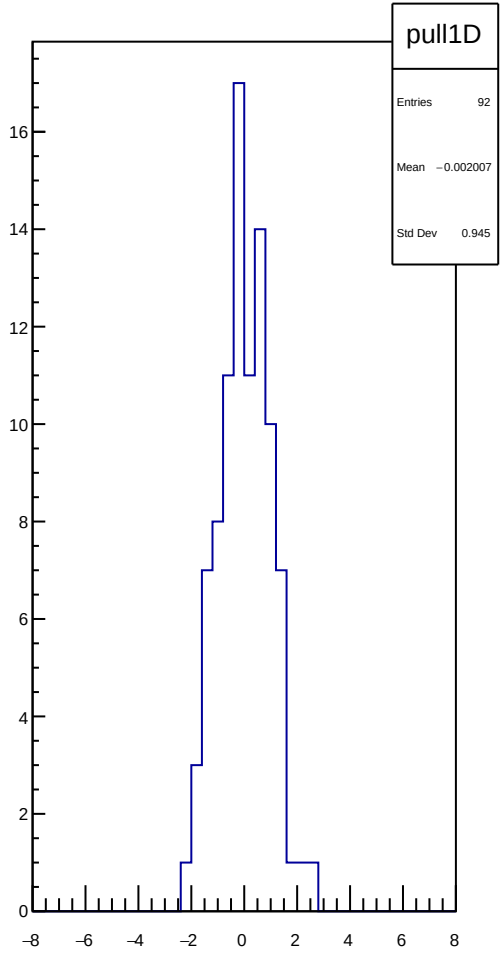

asym_sam3_dit_correction_rms vs run
χ² / ndf 3056 / 91
p0 1060 ± 0.7982
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980
960

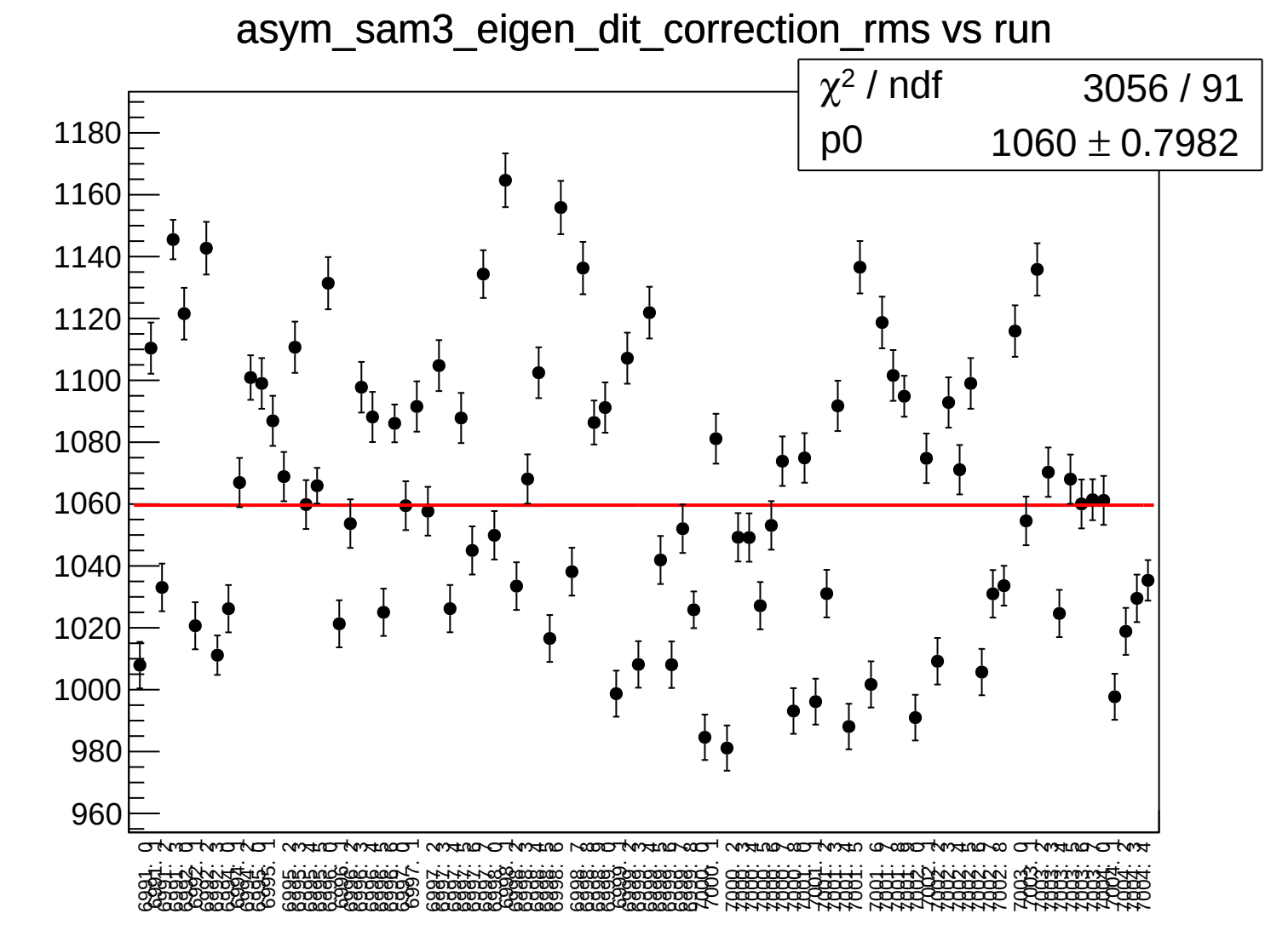

eigen_dit_asym_sam3_mean vs run
χ² / ndf 85.32 / 91
p0 130.7 ± 105.7
pull
Entries 92
Mean −63.55
Std Dev 0

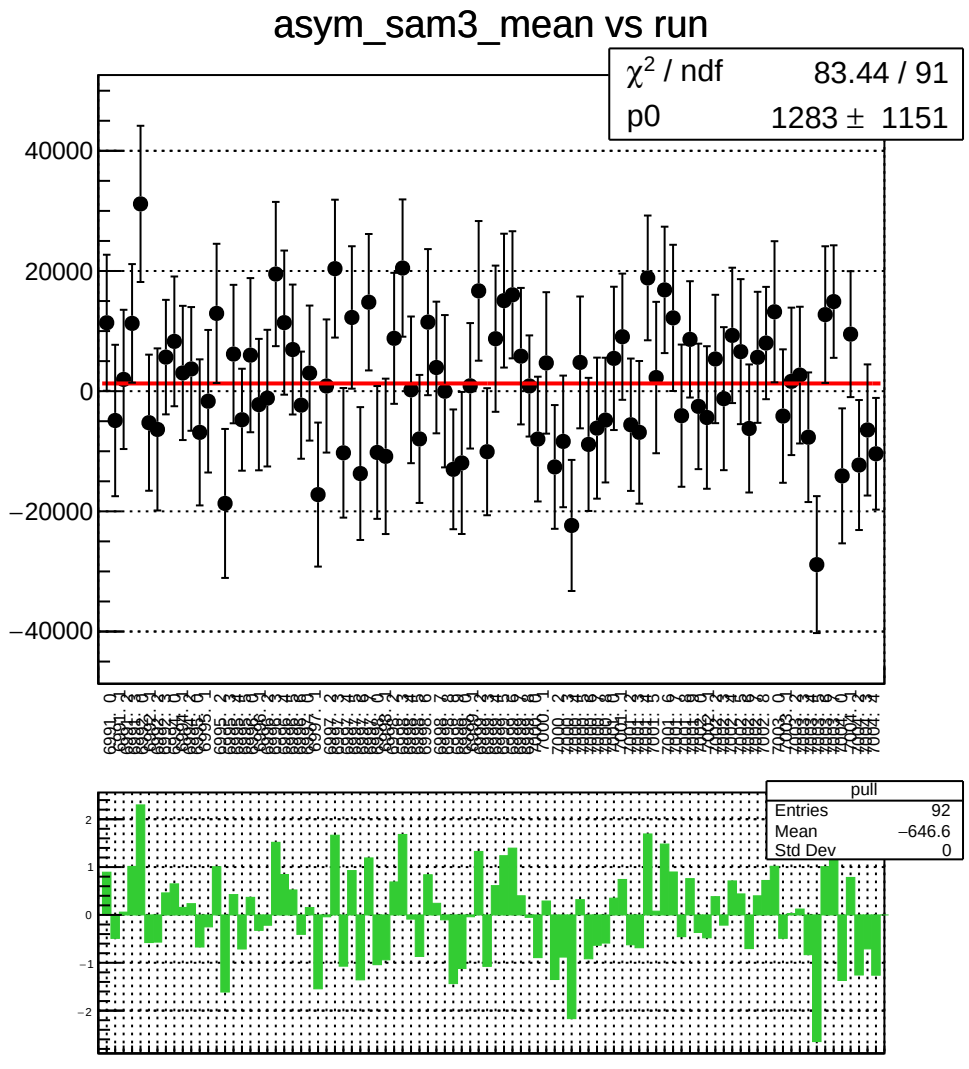

pull1D
Entries 92
Mean −0.01592
Std Dev 0.9629

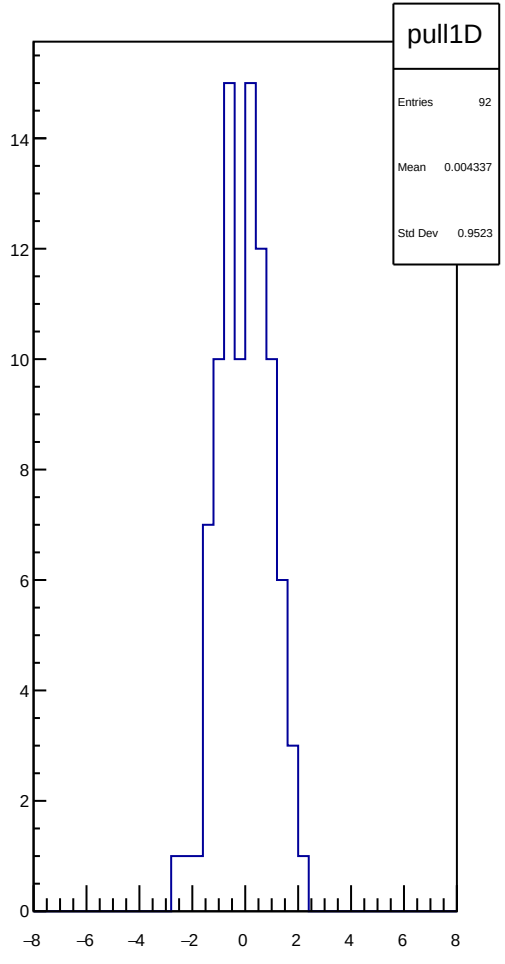

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.26e+04 / 91
p0 98.4 ± 0.07475
180
160
140
120
100
80

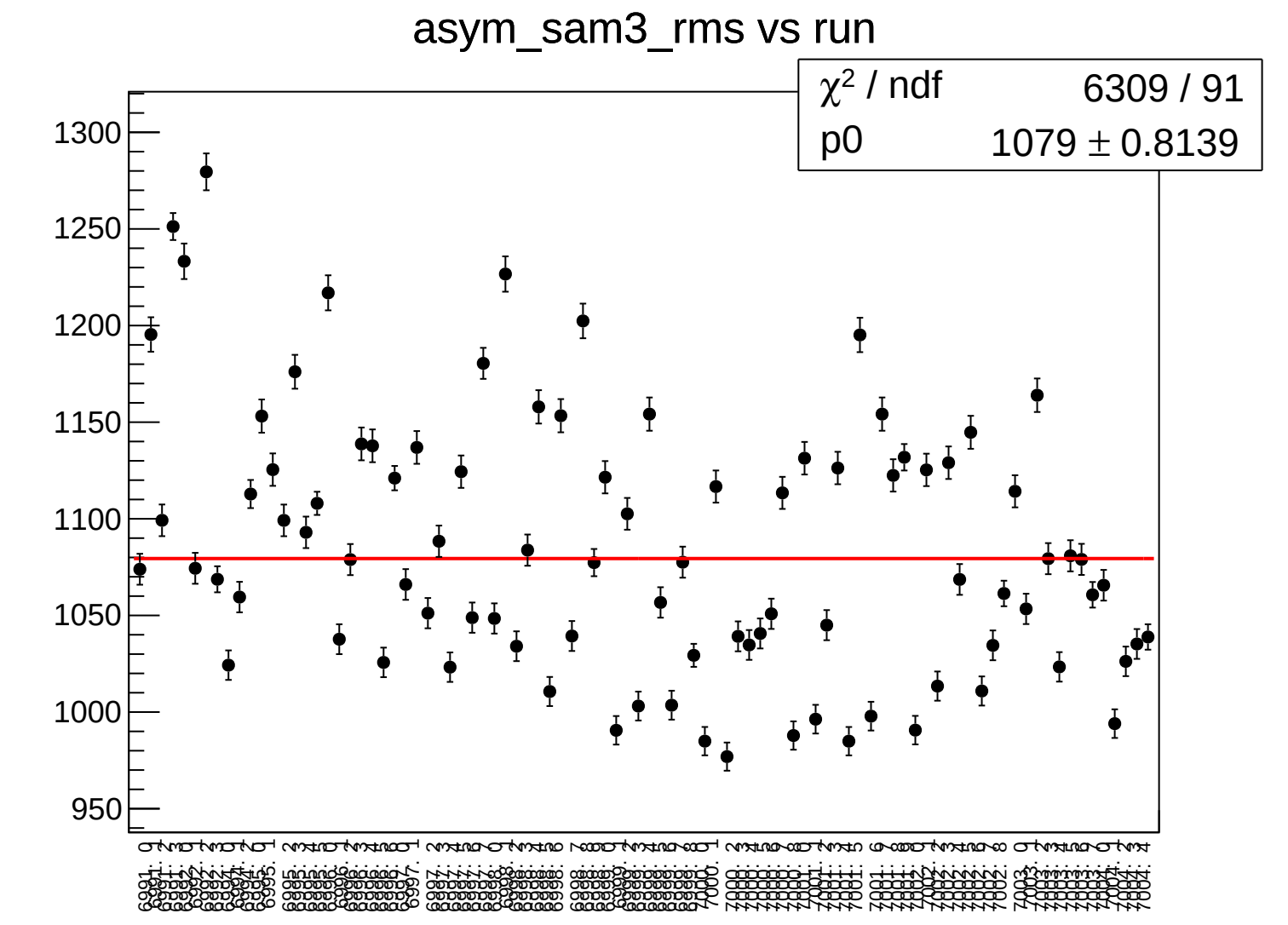

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 82.15 / 91
p0 −1229 ± 1129
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1589
Std Dev 0
2
1
0
−1
−2

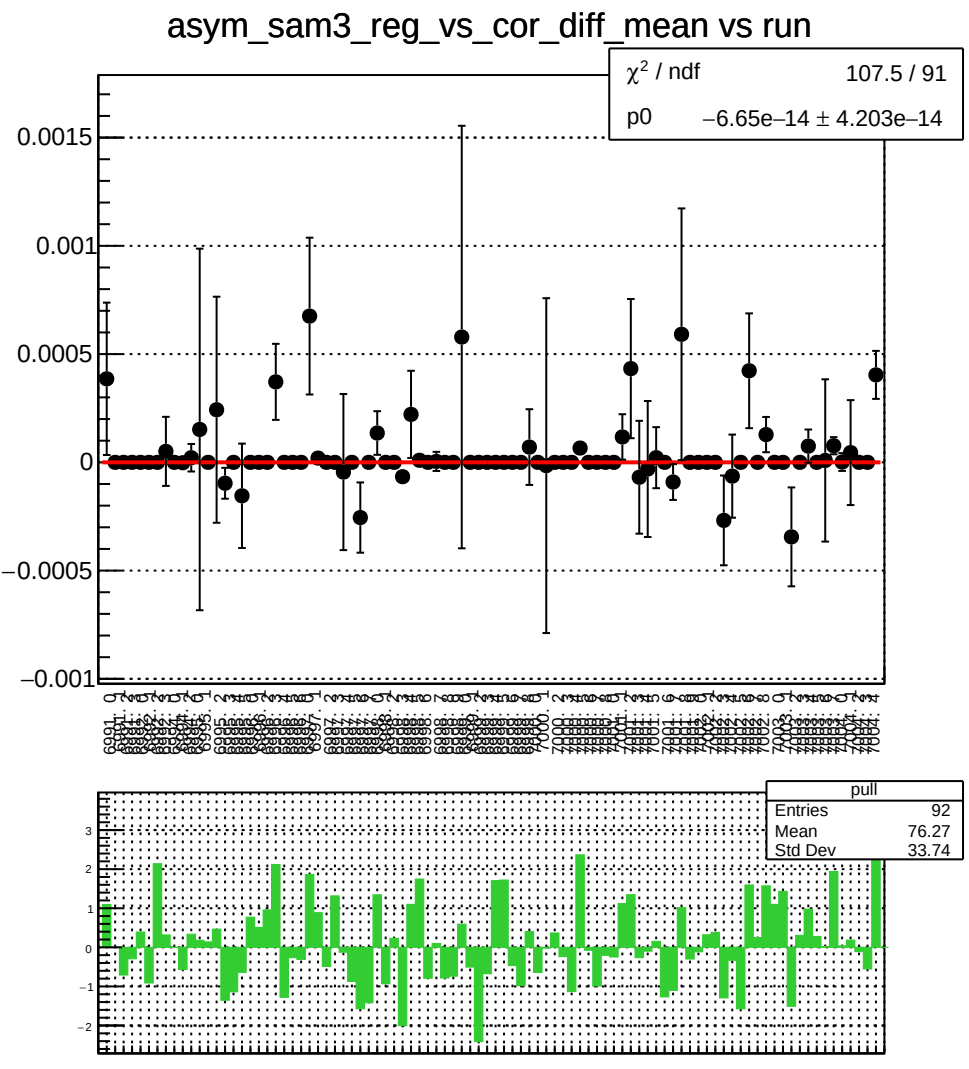

pull1D
Entries 92
Mean −0.002007
Std Dev 0.945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

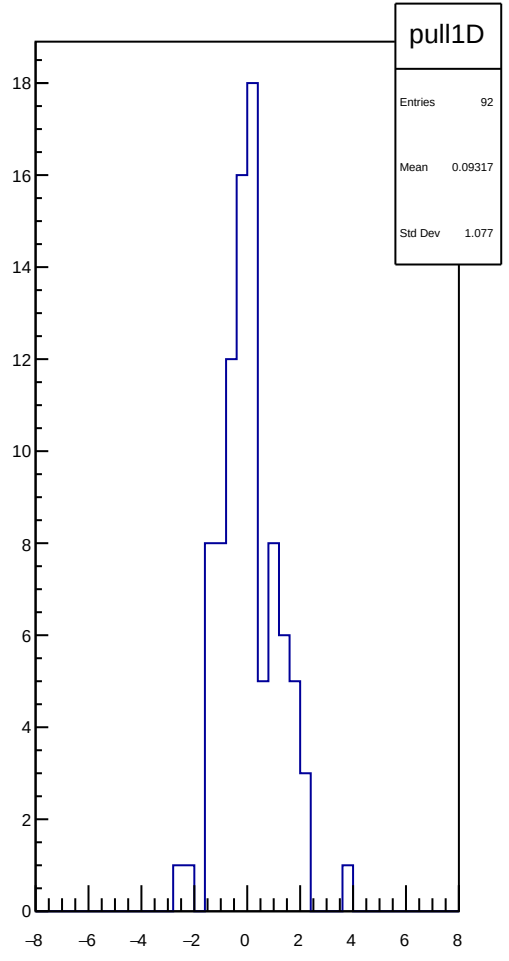

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3056 / 91
p0 1060 ± 0.7982
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980
960

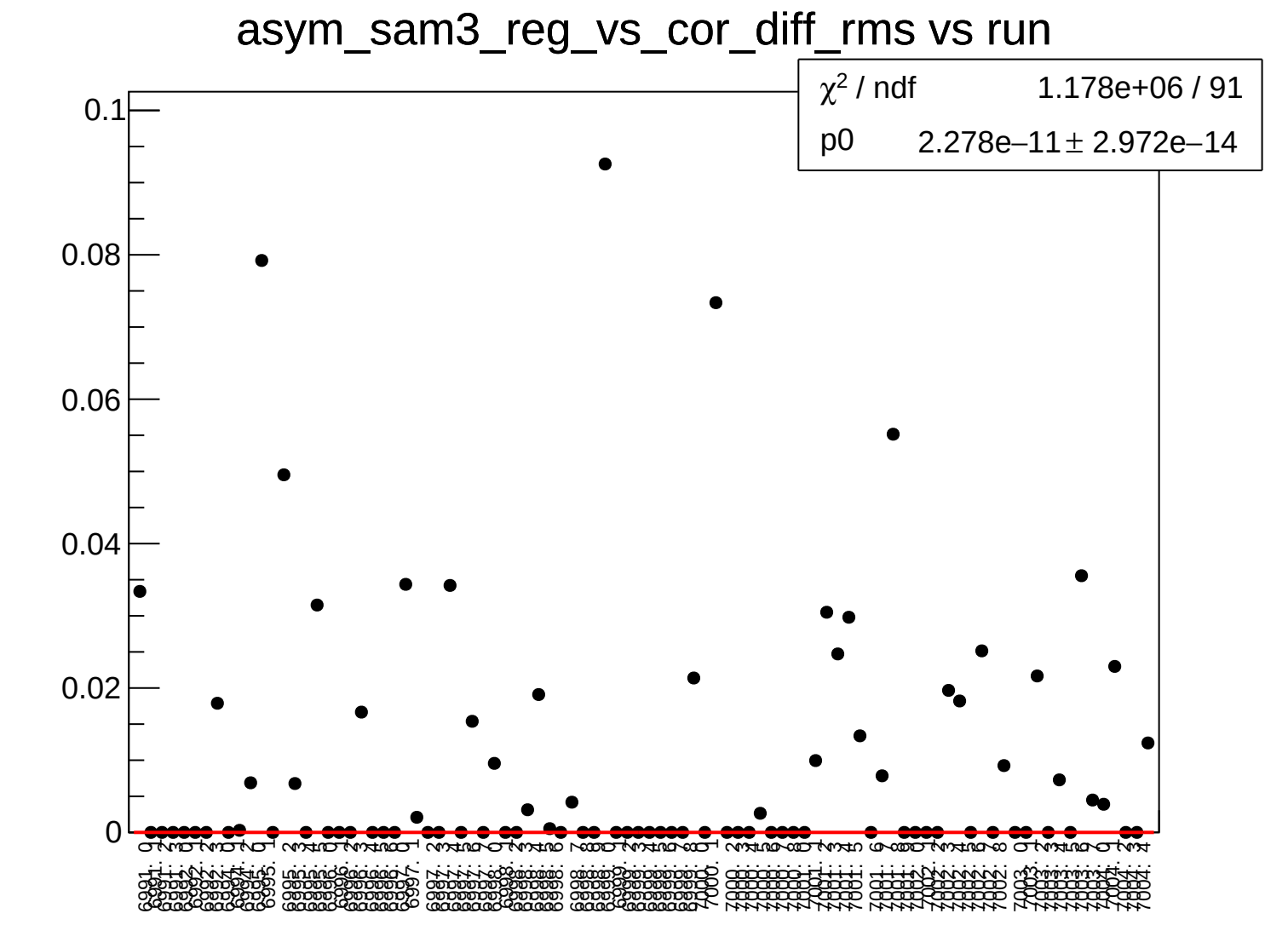

asym_sam3_mean vs run
χ² / ndf 83.44 / 91
p0 1283 ± 1151
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −646.6
Std Dev 0
2
1
0
−1
−2

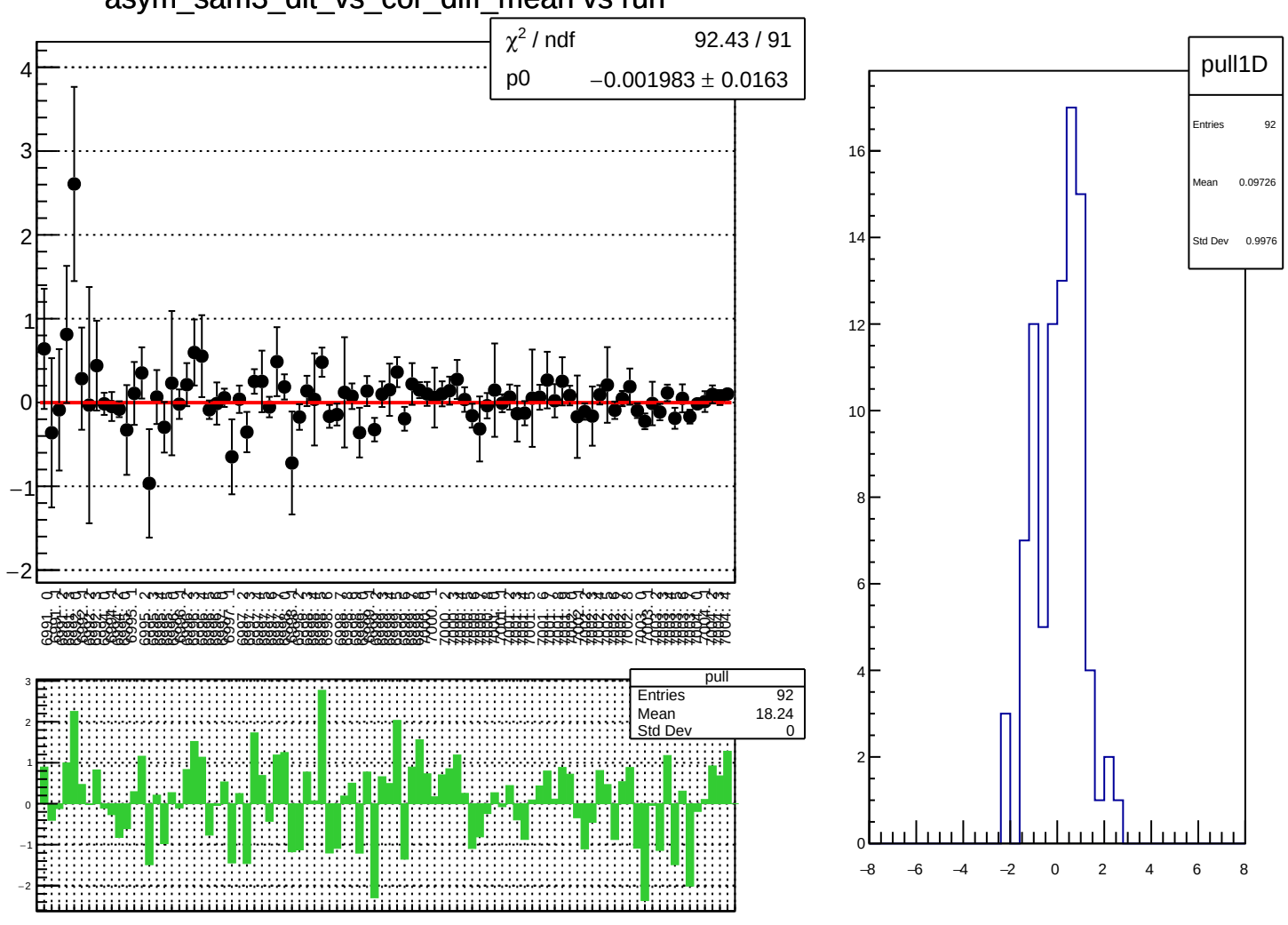

pull1D
Entries 92
Mean 0.004337
Std Dev 0.9523
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

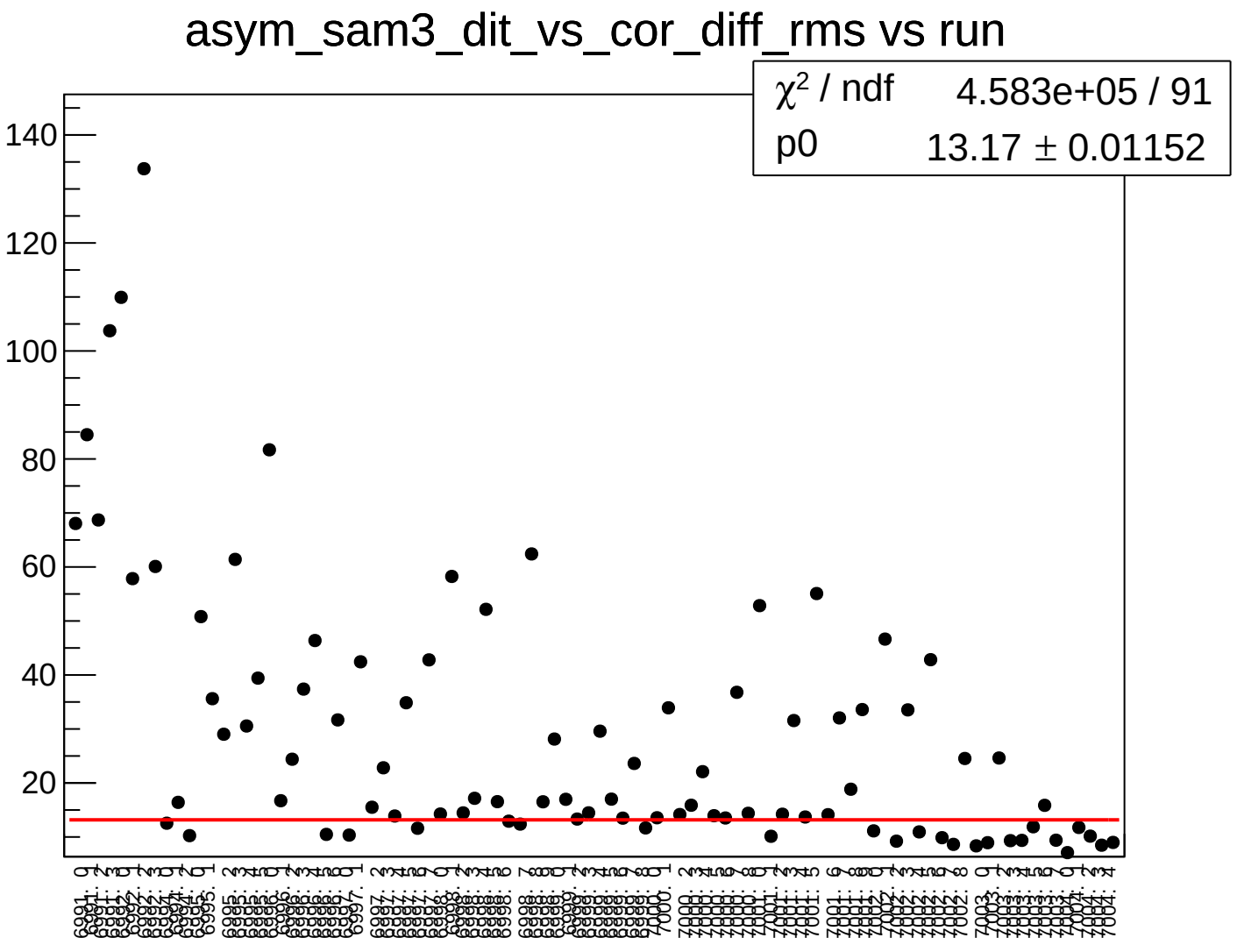

asym_sam3_rms vs run
χ² / ndf 6309 / 91
p0 1079 ± 0.8139
1300
1250
1200
1150
1100
1050
1000
950

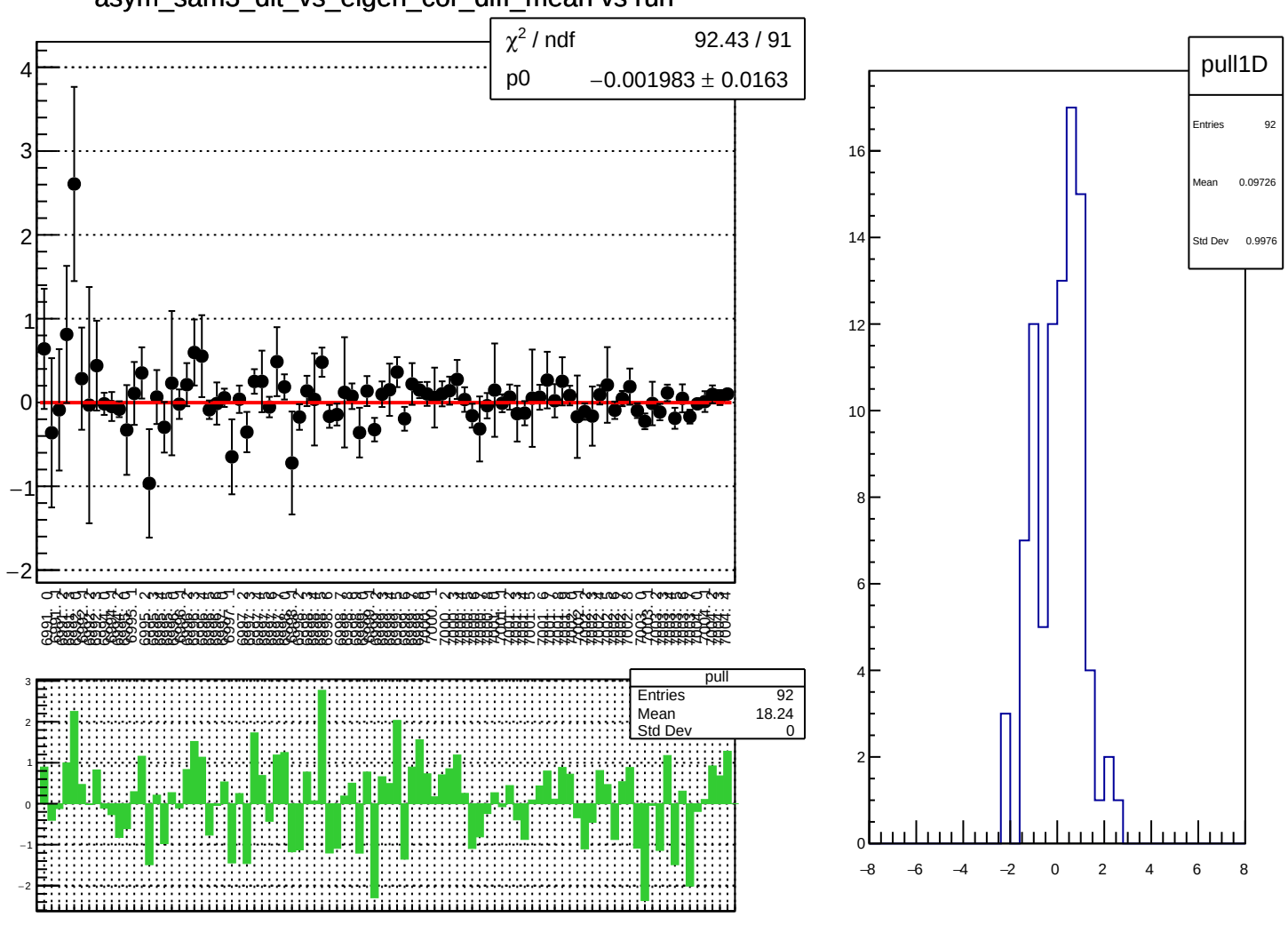

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 107.5 / 91
p0 −6.65e−14 ± 4.203e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 76.27
Std Dev 33.74
3
2
1
0
−1
−2

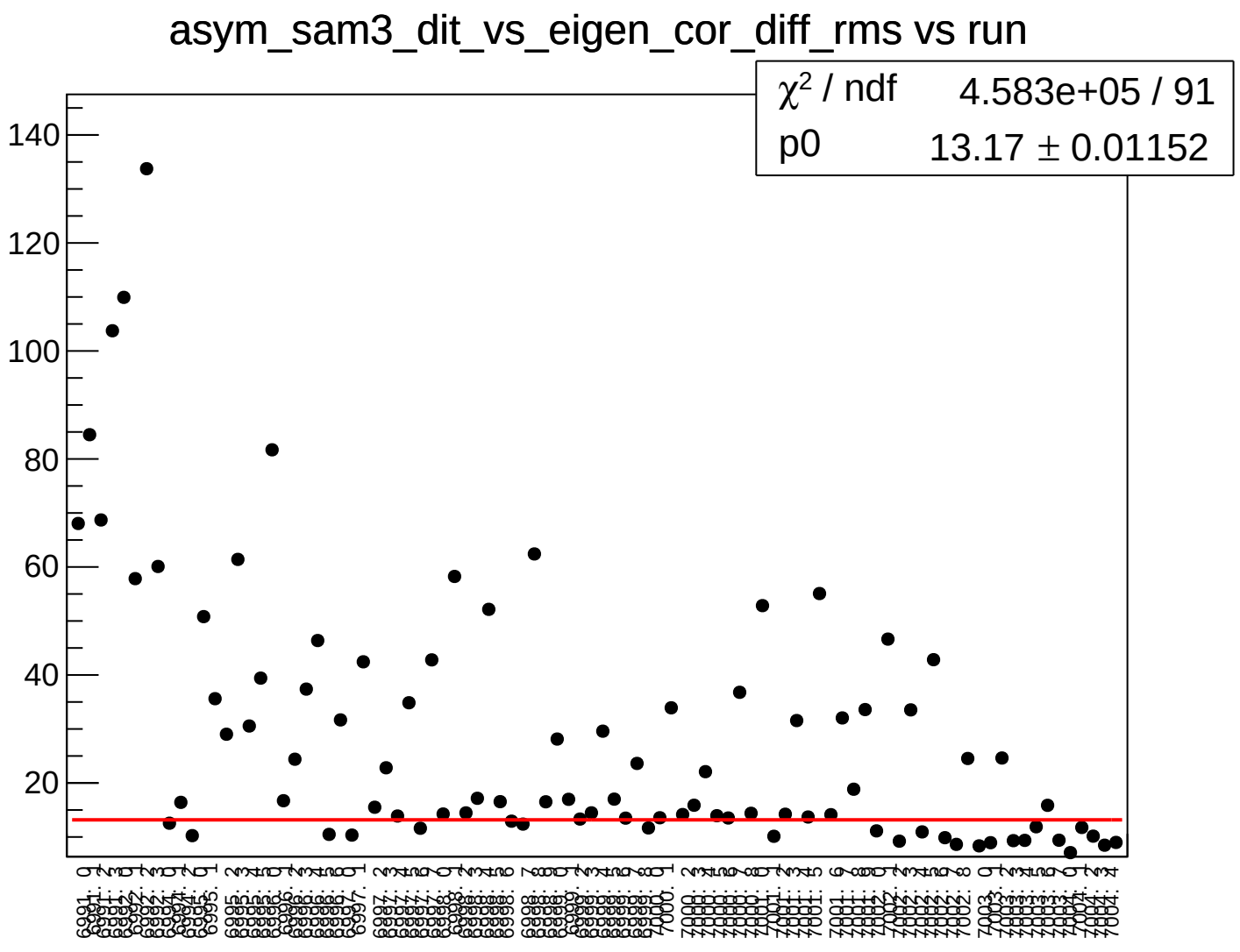

pull1D
Entries 92
Mean 0.09317
Std Dev 1.077
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

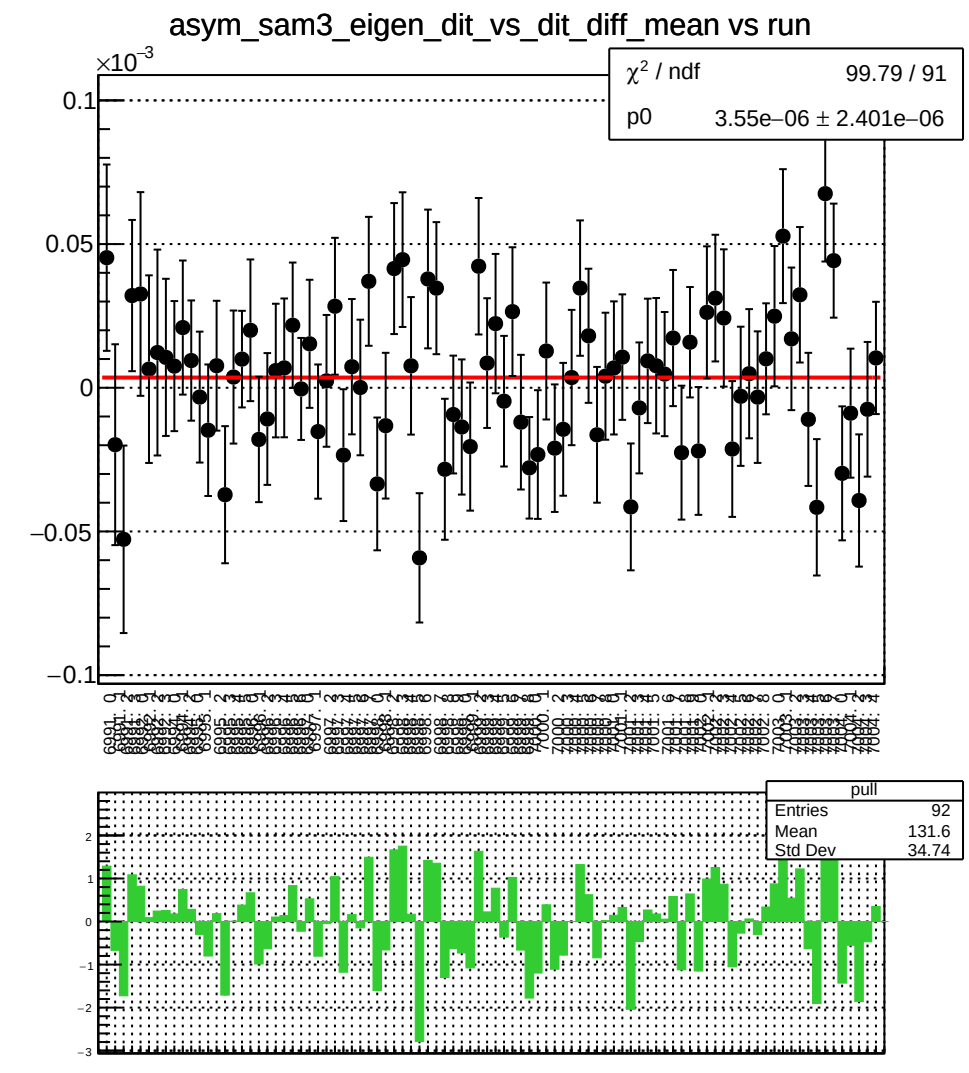

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.178e+06 / 91
p0 2.278e−11 ± 2.972e−14
0.1
0.08
0.06
0.04
0.02
0

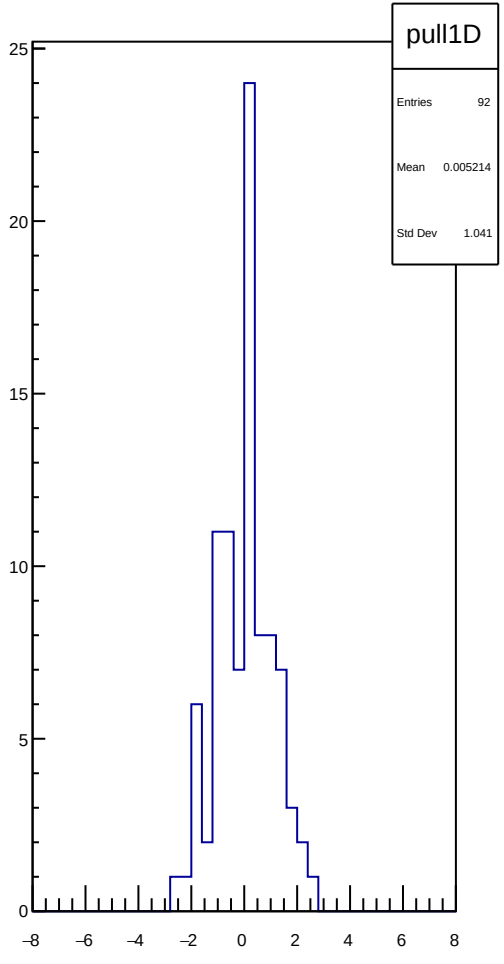

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 92.43 / 91
p0 −0.001983 ± 0.0163
pull
Entries 92
Mean 18.24
Std Dev 0
pull1D
Entries 92
Mean 0.09726
Std Dev 0.9976

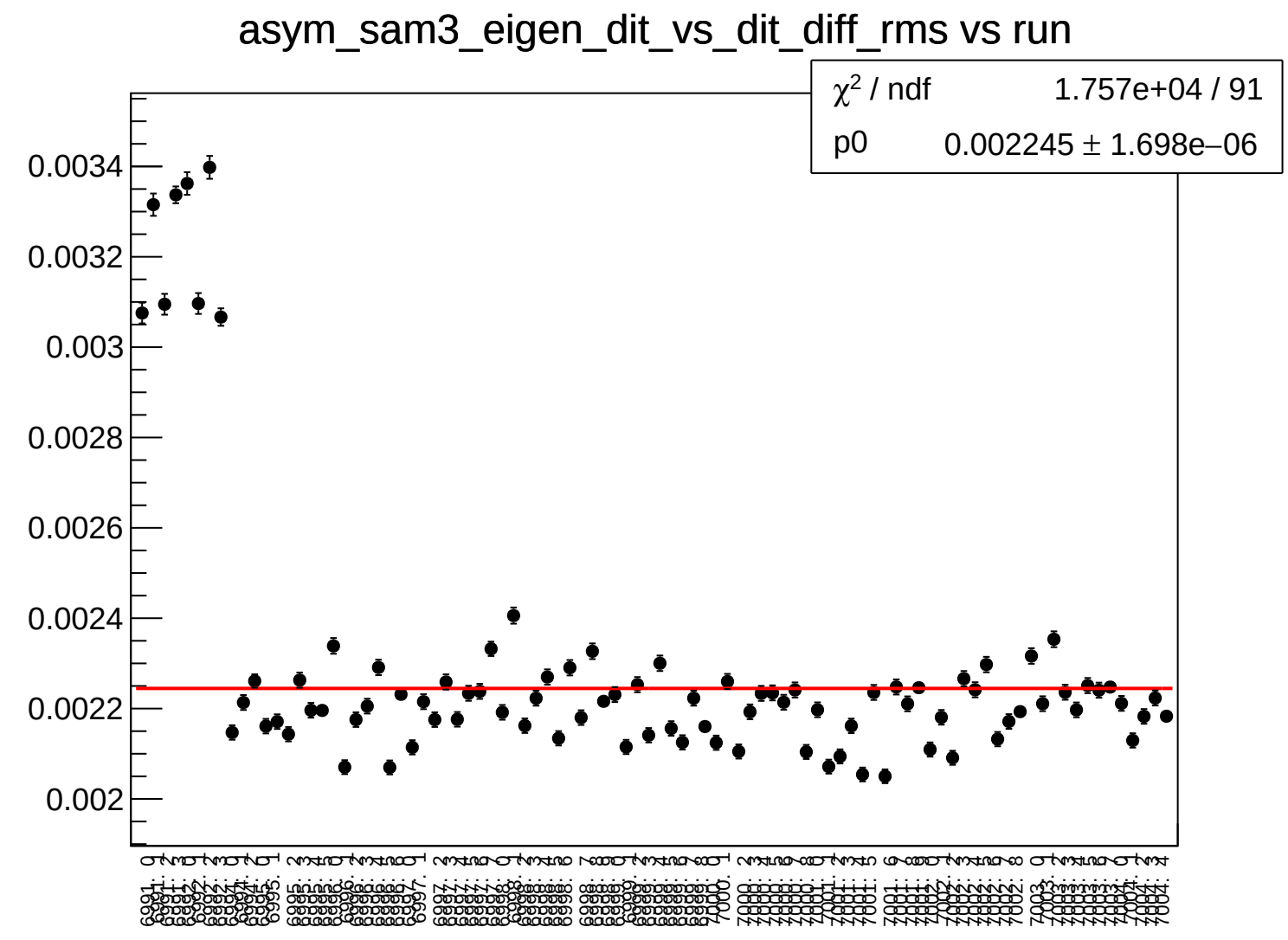

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 4.583e+05 / 91
p0 13.17 ± 0.01152
140
120
100
80
60
40
20

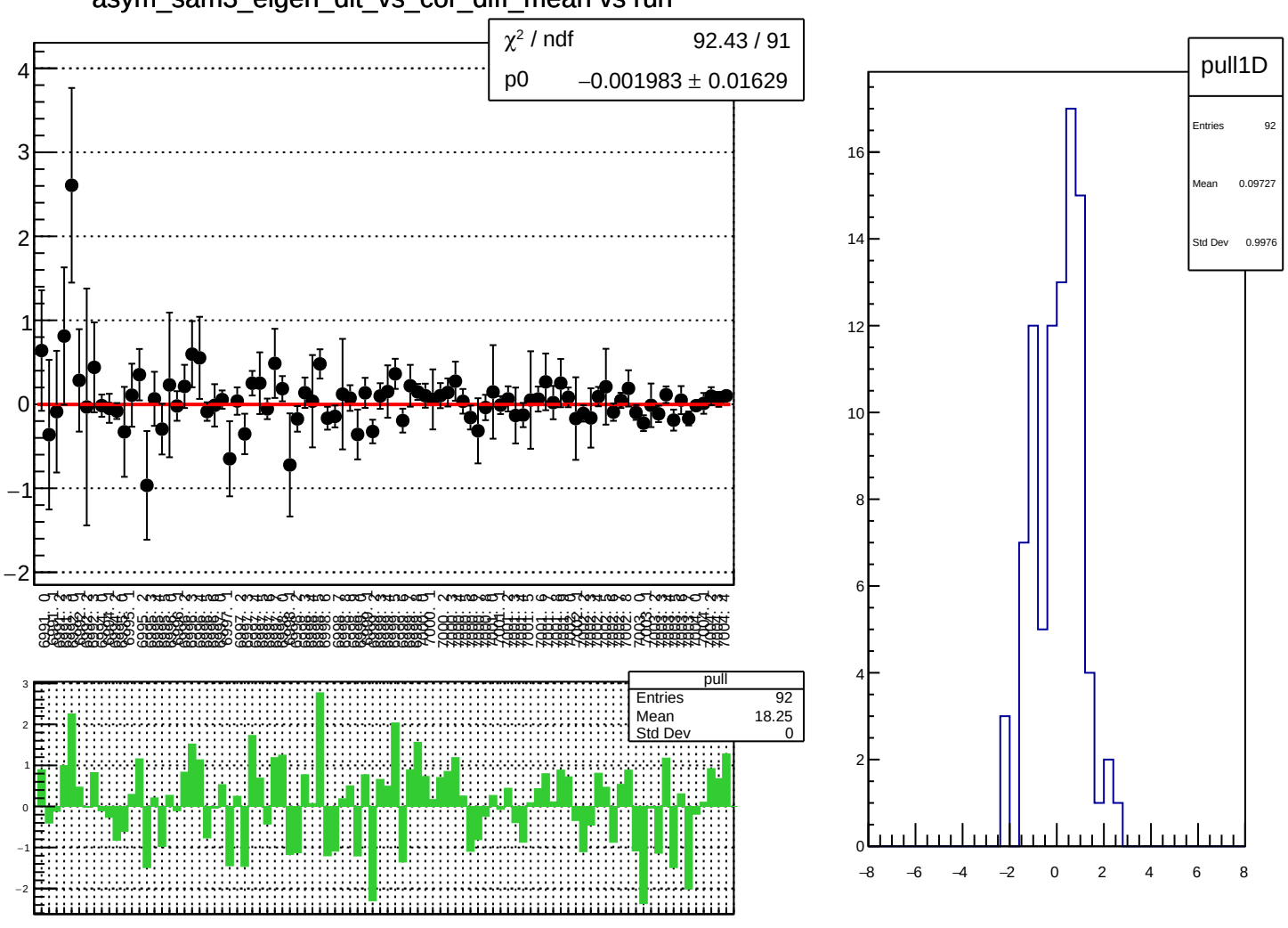

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.43 / 91
p0 −0.001983 ± 0.0163
pull
Entries 92
Mean 18.24
Std Dev 0
pull1D
Entries 92
Mean 0.09726
Std Dev 0.9976

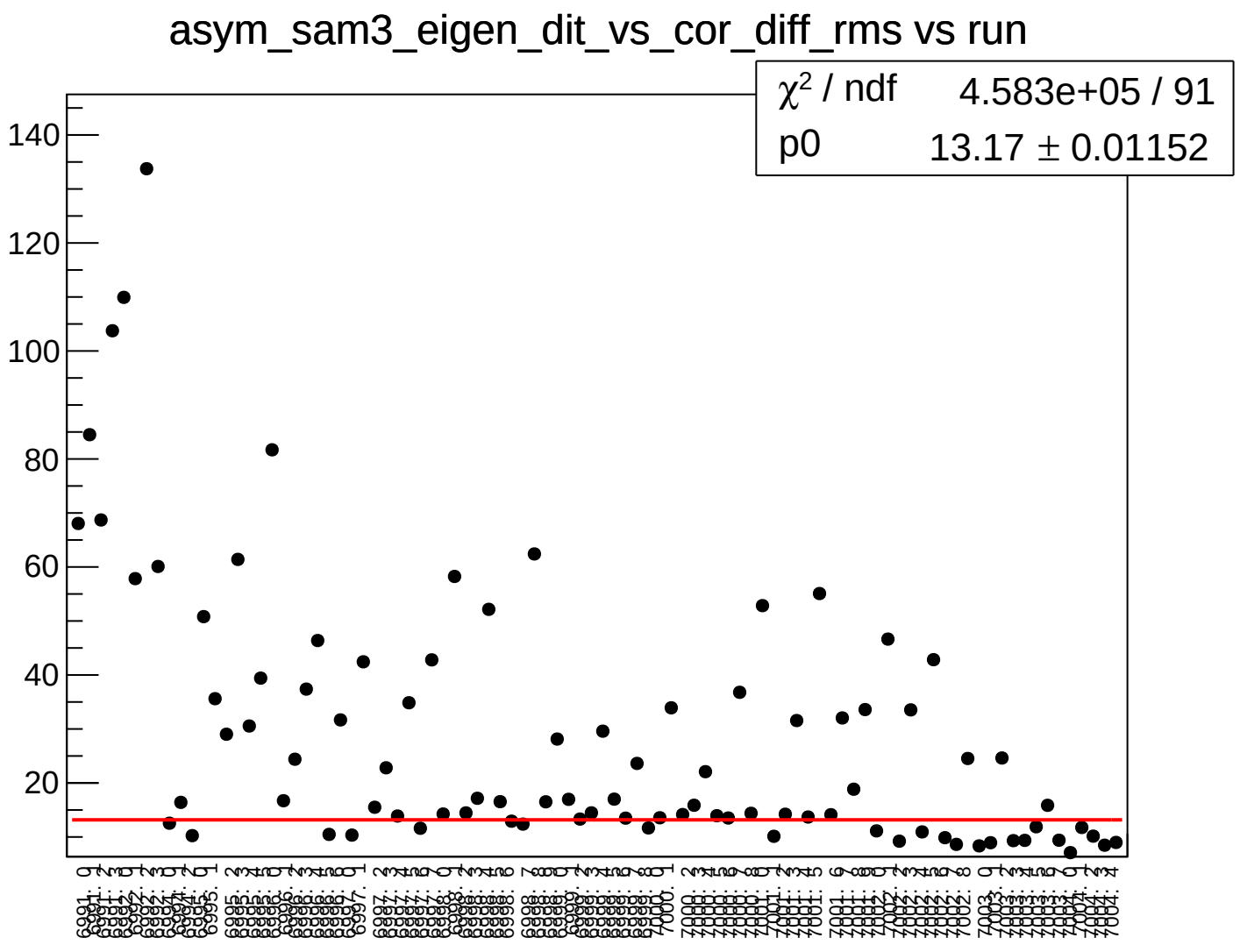

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.583e+05 / 91
p0 13.17 ± 0.01152
140
120
100
80
60
40
20

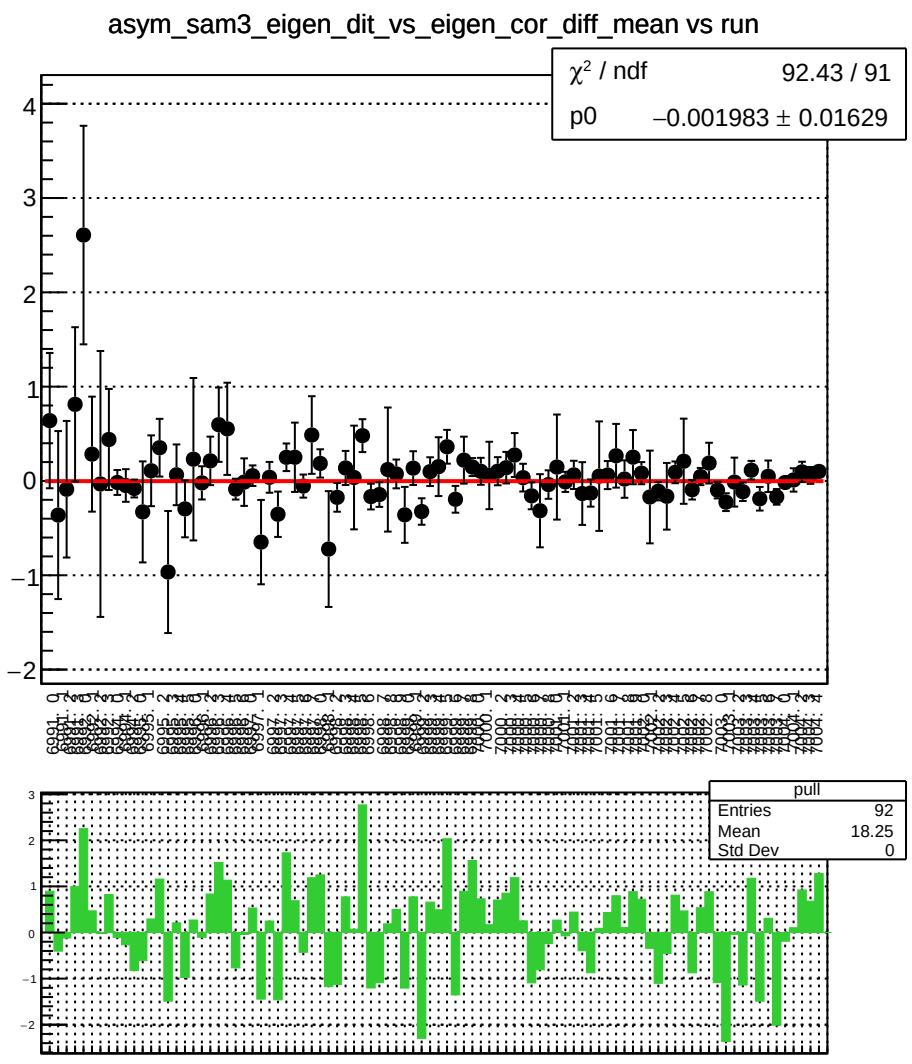

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.79 / 91
p0 3.55e−06 ± 2.401e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 131.6
Std Dev 34.74
2
1
0
−1
−2
−3

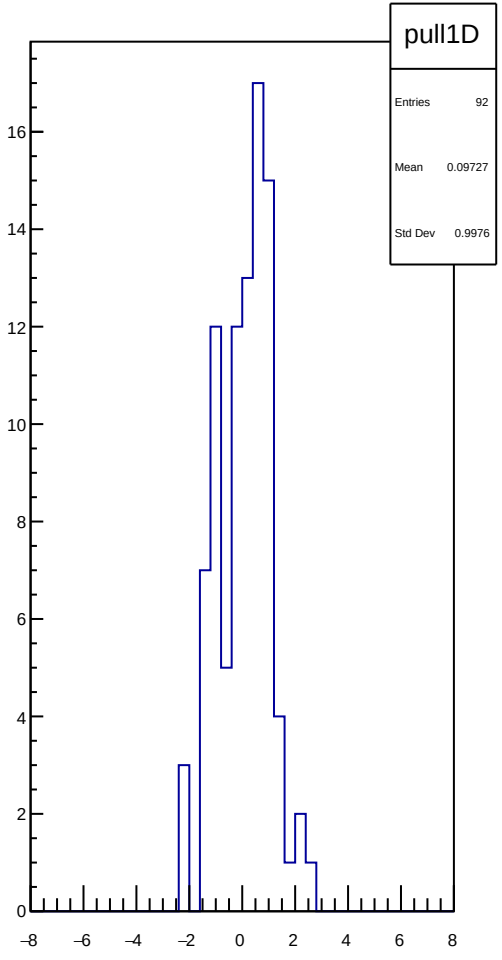

pull1D
Entries 92
Mean 0.005214
Std Dev 1.041
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

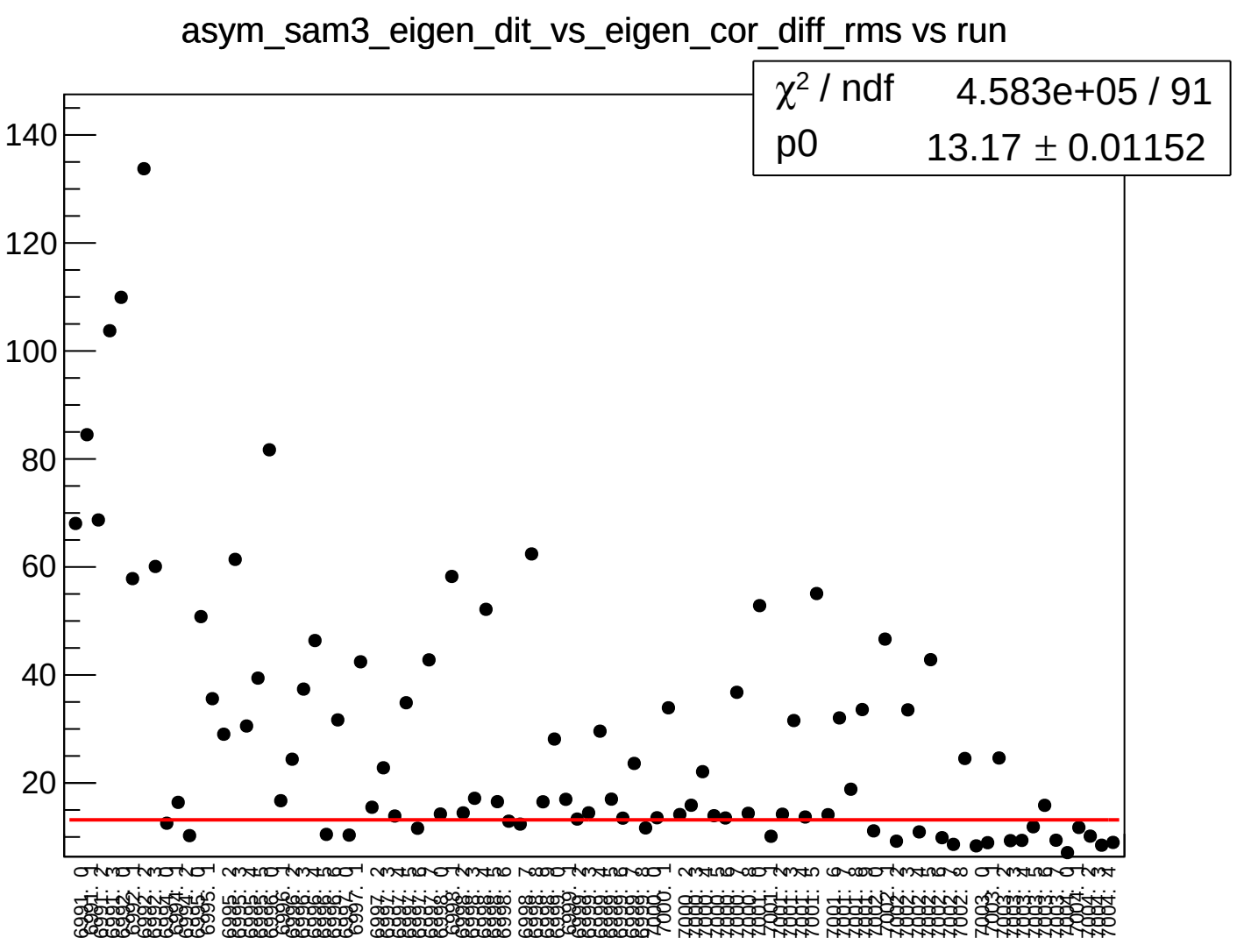

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.757e+04 / 91
p0 0.002245 ± 1.698e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

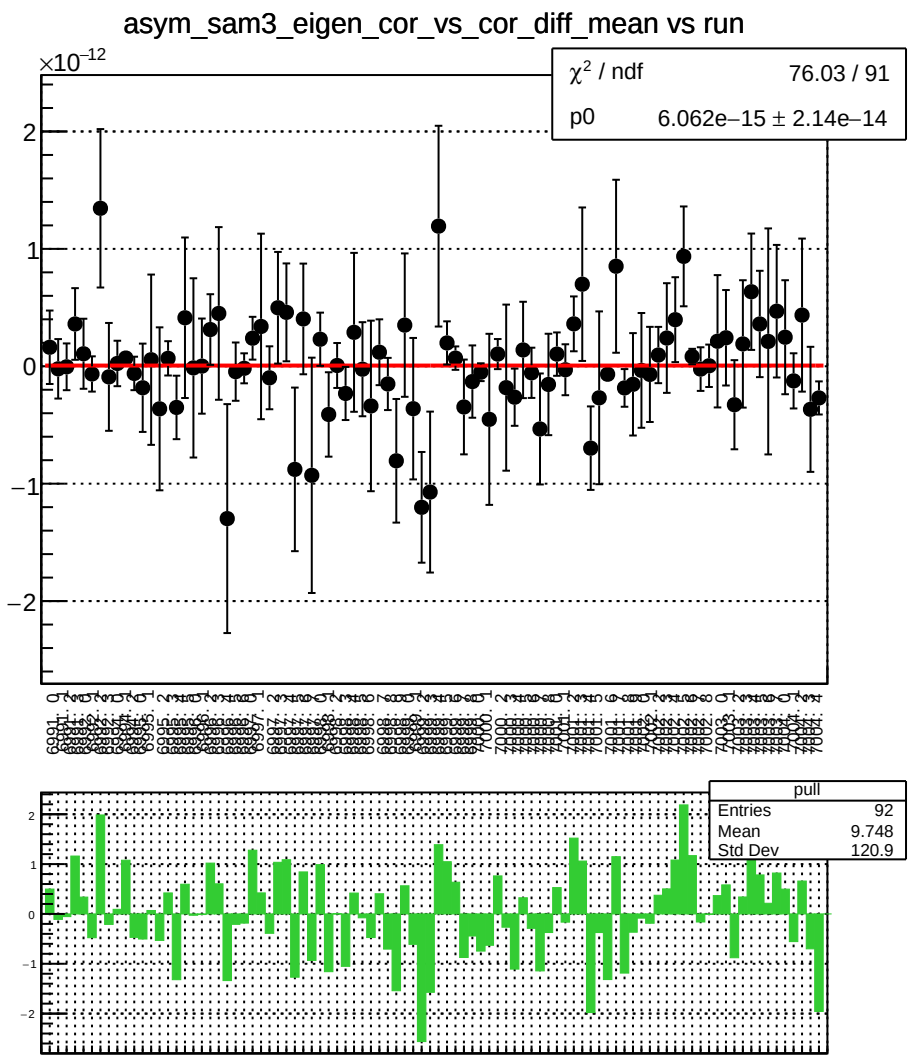

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.43 / 91
p0 −0.001983 ± 0.01629
pull
Entries 92
Mean 18.25
Std Dev 0
pull1D
Entries 92
Mean 0.09727
Std Dev 0.9976

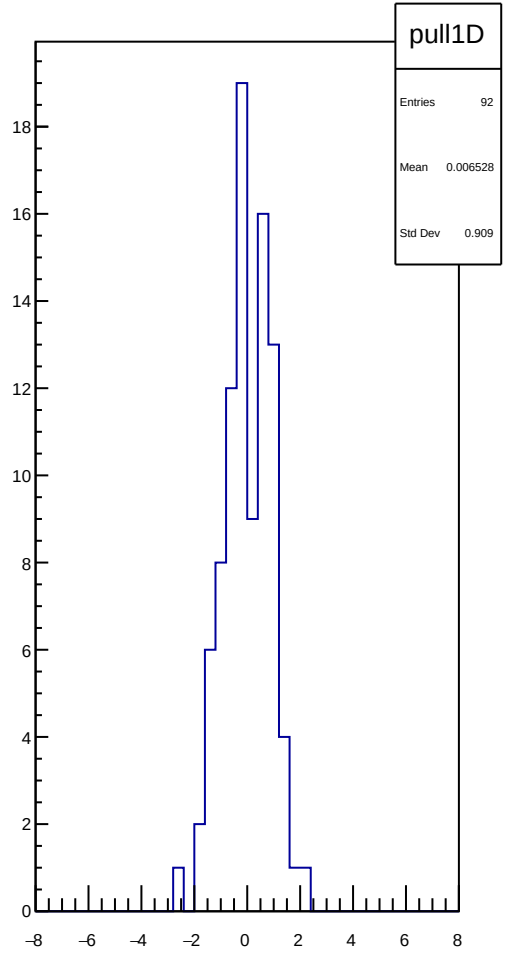

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.583e+05 / 91
p0 13.17 ± 0.01152
140
120
100
80
60
40
20

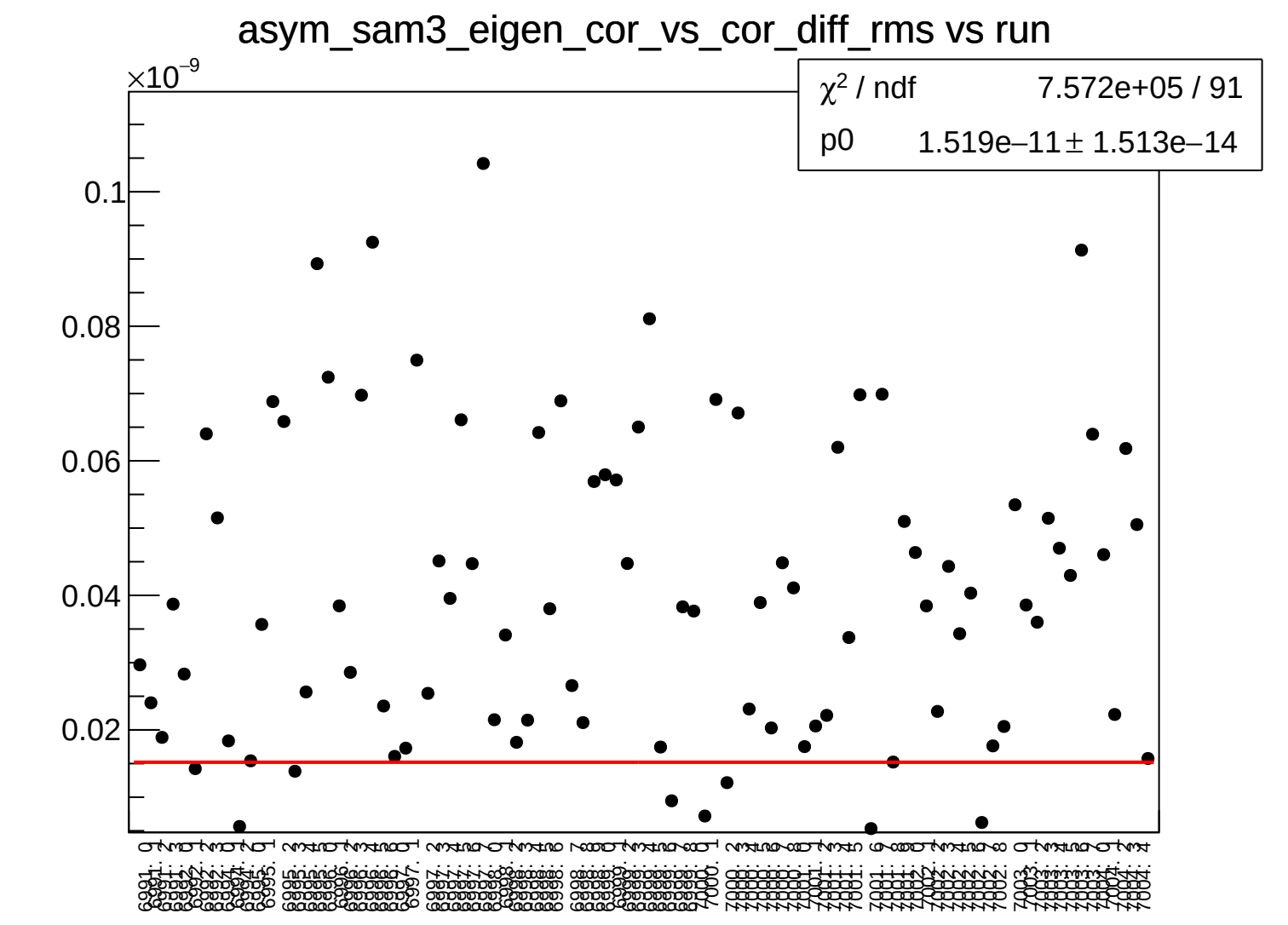

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.43 / 91
p0 −0.001983 ± 0.01629
pull
Entries 92
Mean 18.25
Std Dev 0

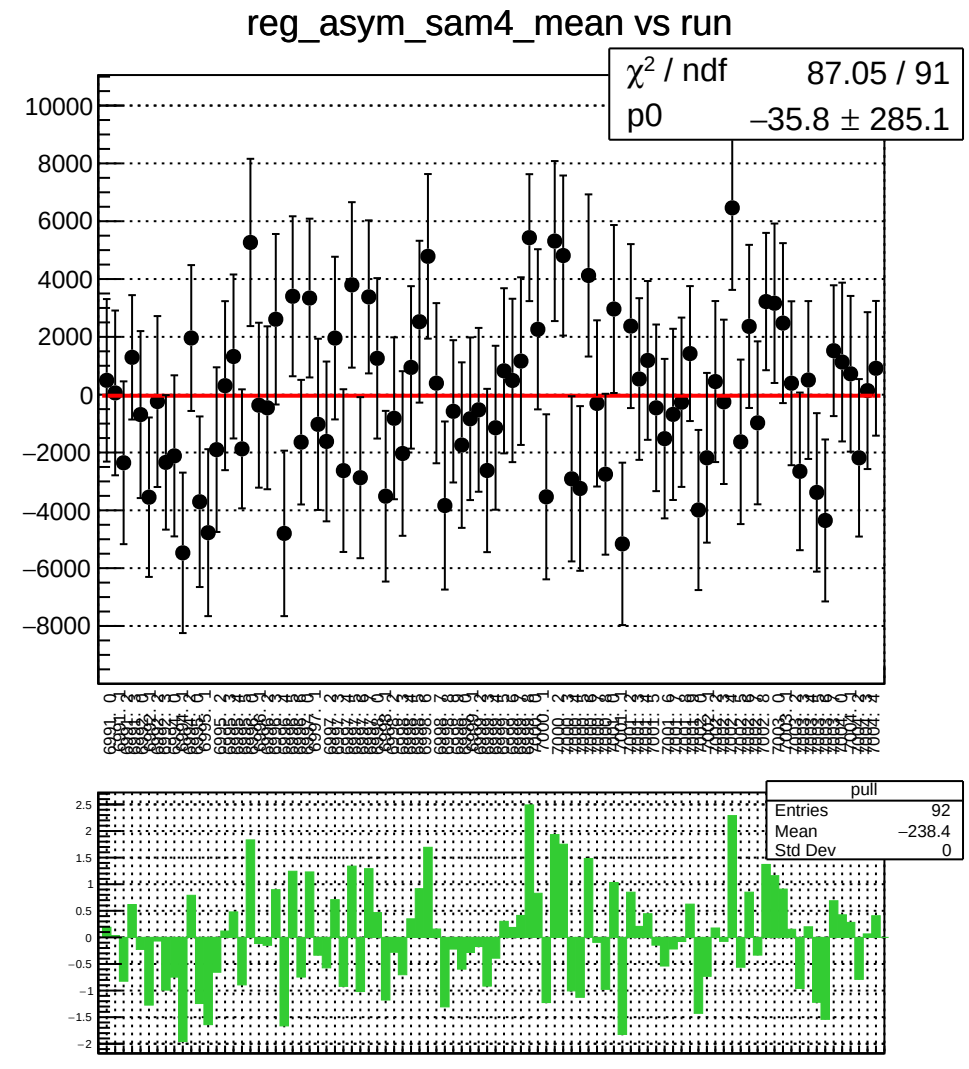

pull1D
Entries 92
Mean 0.09727
Std Dev 0.9976

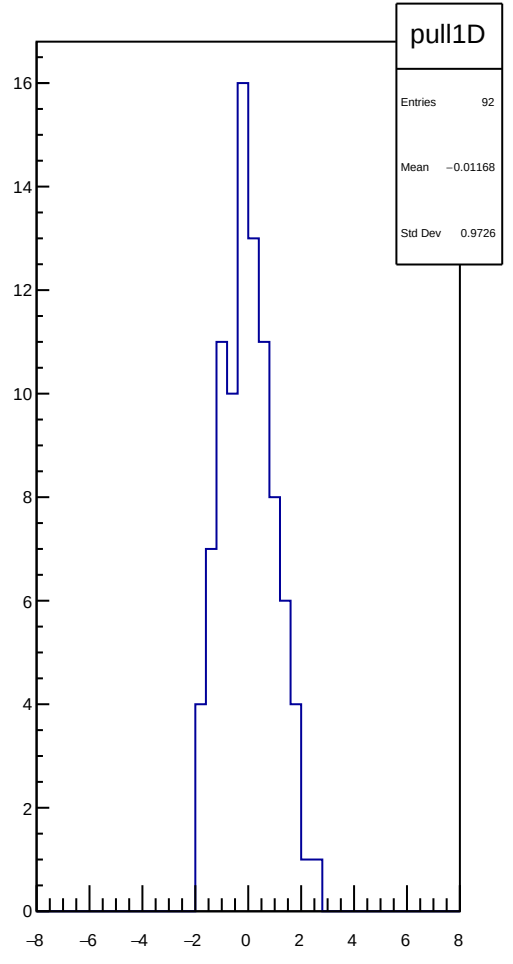

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.583e+05 / 91
p0 13.17 ± 0.01152
140
120
100
80
60
40
20

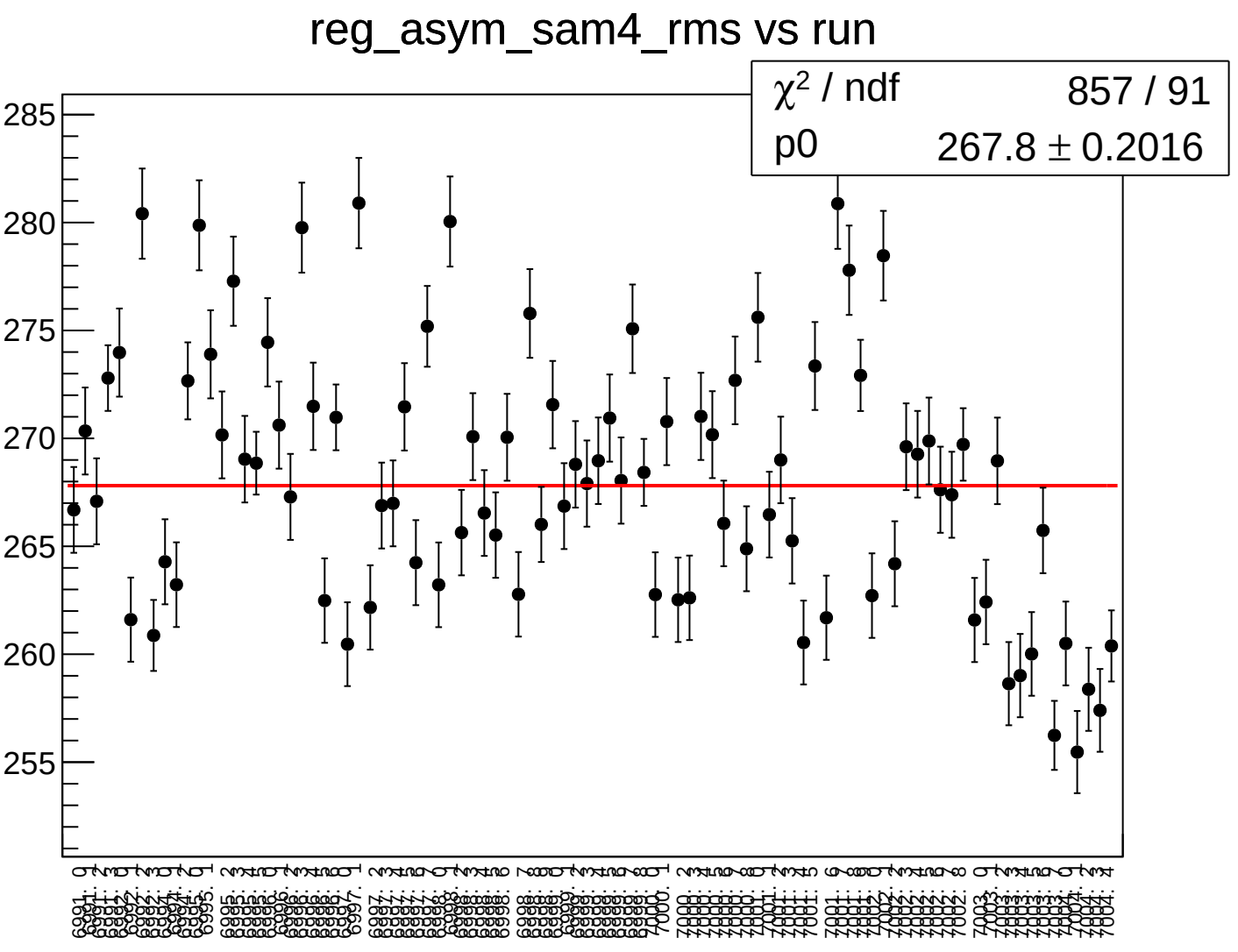

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 76.03 / 91
p0 6.062e−15 ± 2.14e−14
pull
Entries 92
Mean 9.748
Std Dev 120.9

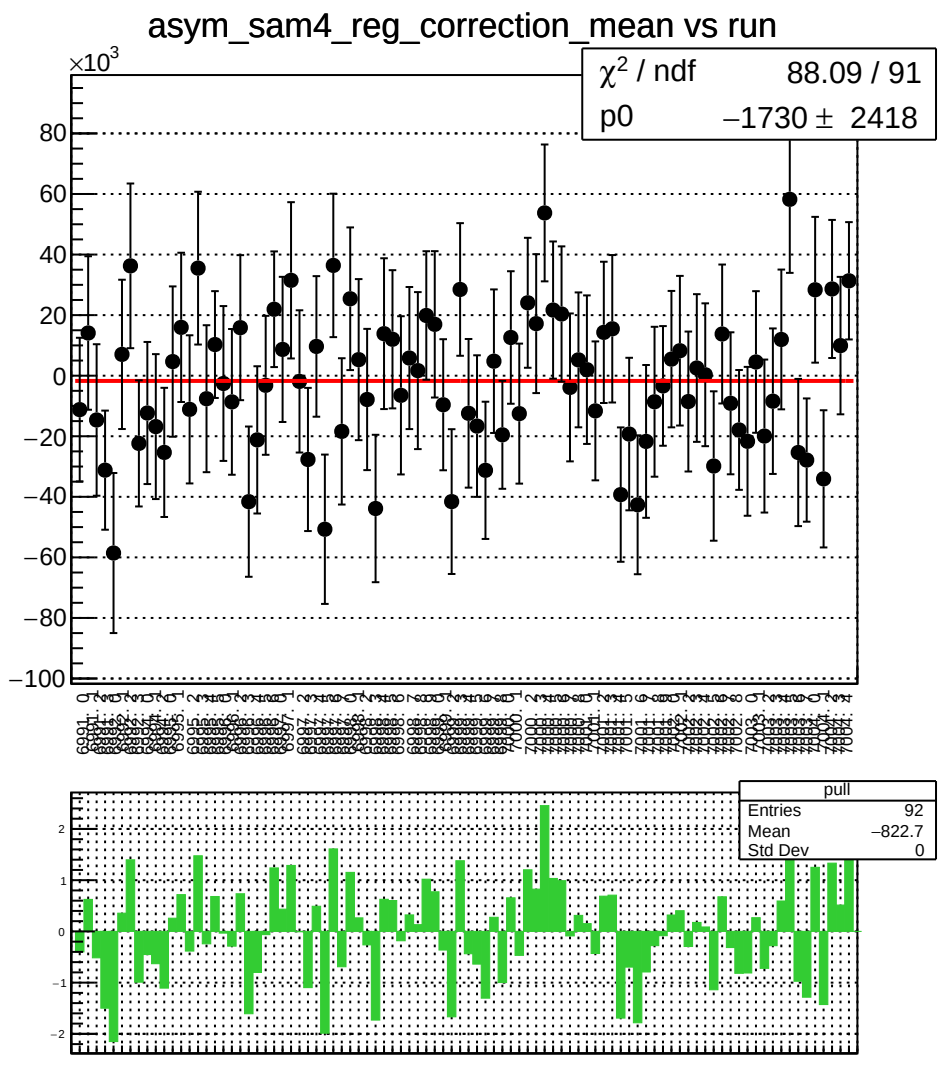

pull1D
Entries 92
Mean 0.006528
Std Dev 0.909

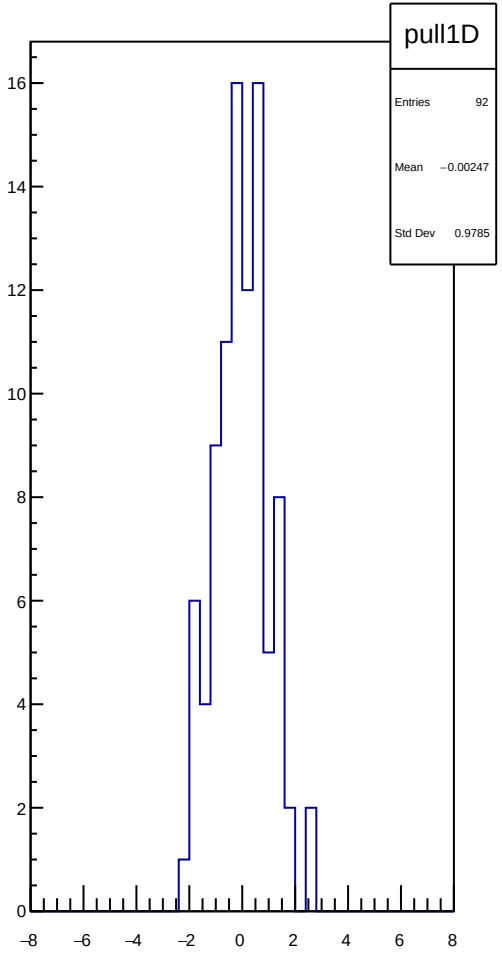

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.572e+05 / 91
p0 1.519e−11 ± 1.513e−14
0.1
0.08
0.06
0.04
0.02

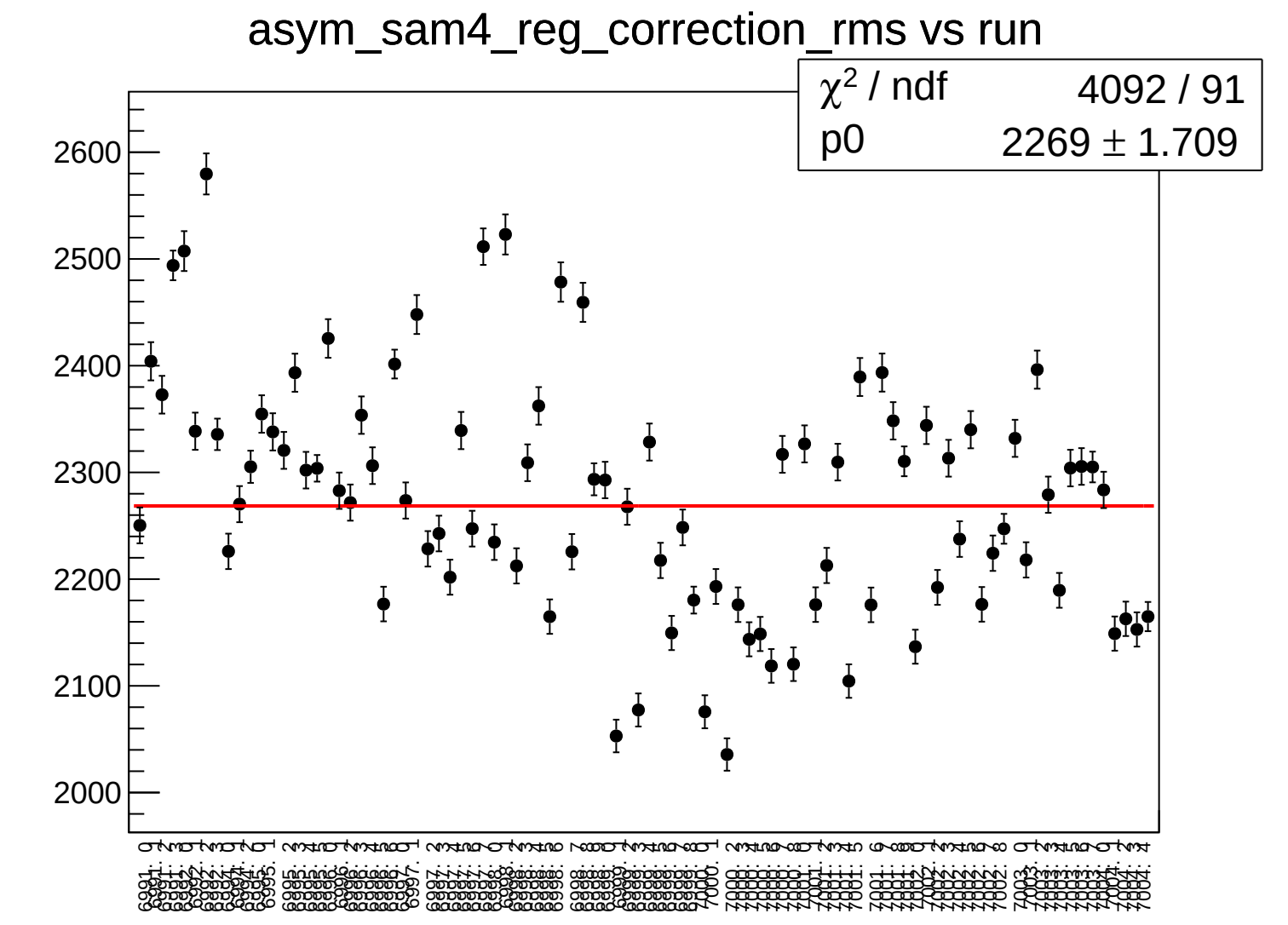

reg_asym_sam4_mean vs run
χ² / ndf 87.05 / 91
p0 −35.8 ± 285.1
pull
Entries 92
Mean −238.4
Std Dev 0

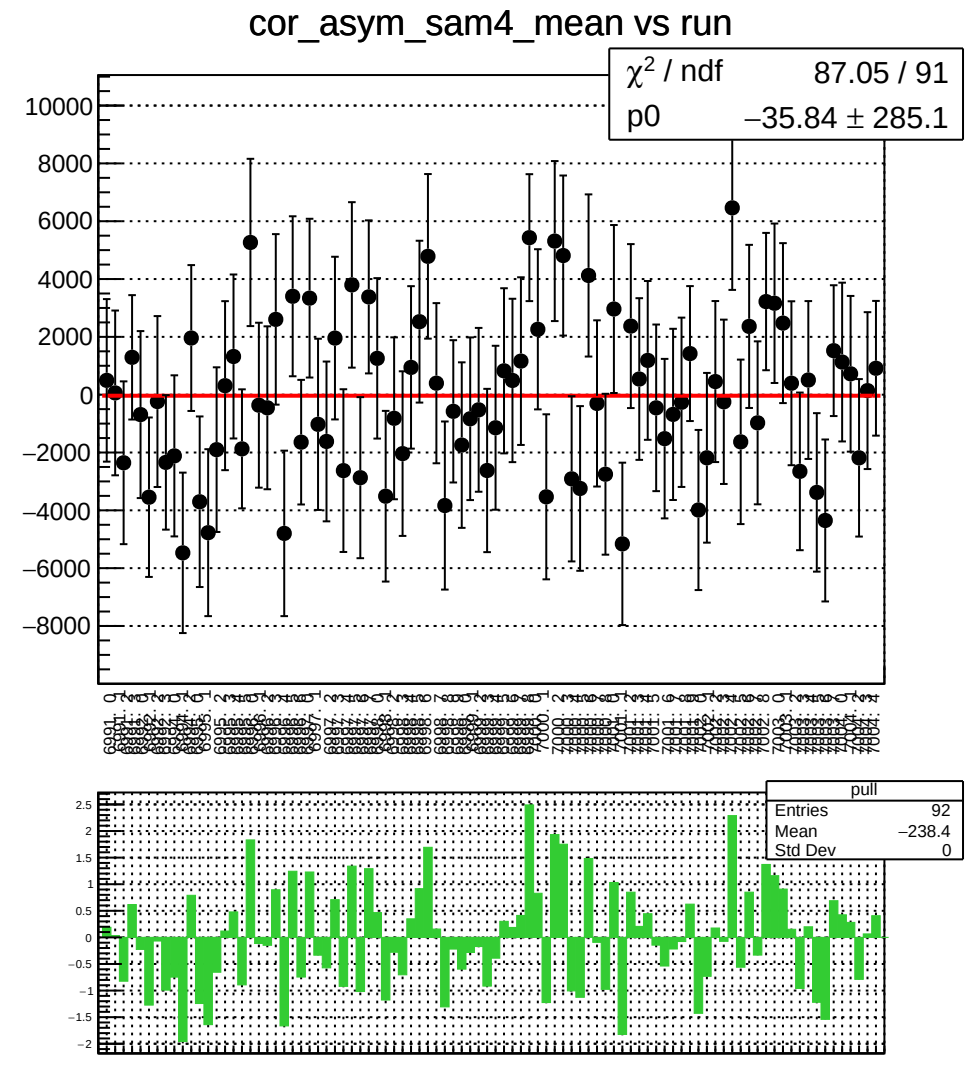

pull1D
Entries 92
Mean −0.01168
Std Dev 0.9726

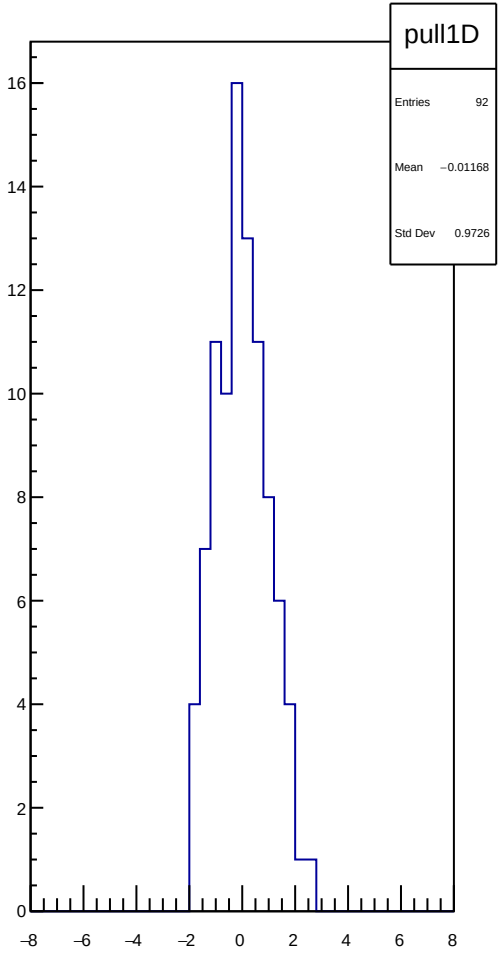

reg_asym_sam4_rms vs run
χ² / ndf 857 / 91
p0 267.8 ± 0.2016
285
280
275
270
265
260
255

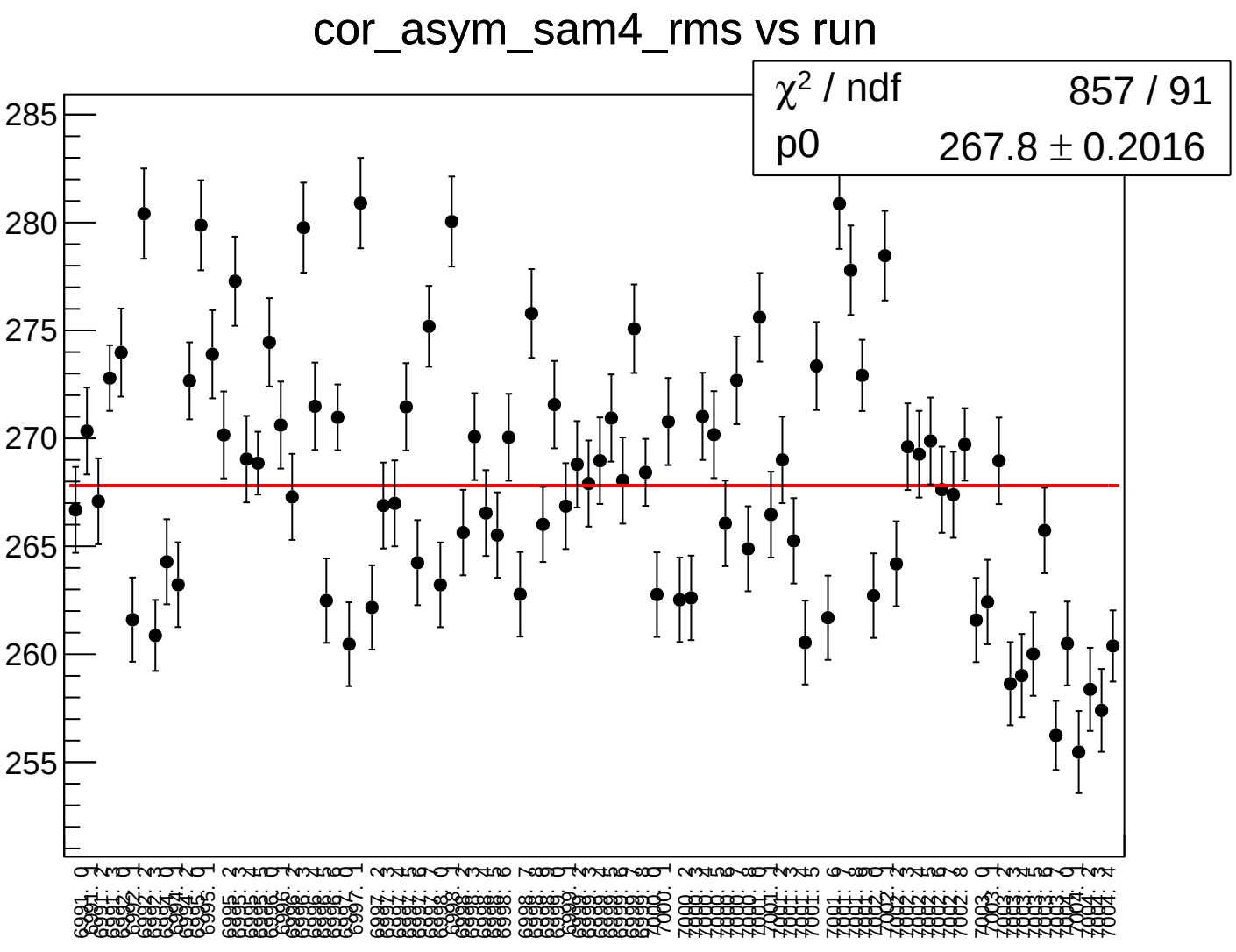

asym_sam4_reg_correction_mean vs run
χ² / ndf 88.09 / 91
p0 −1730 ± 2418
×10³
pull
Entries 92
Mean −822.7
Std Dev 0

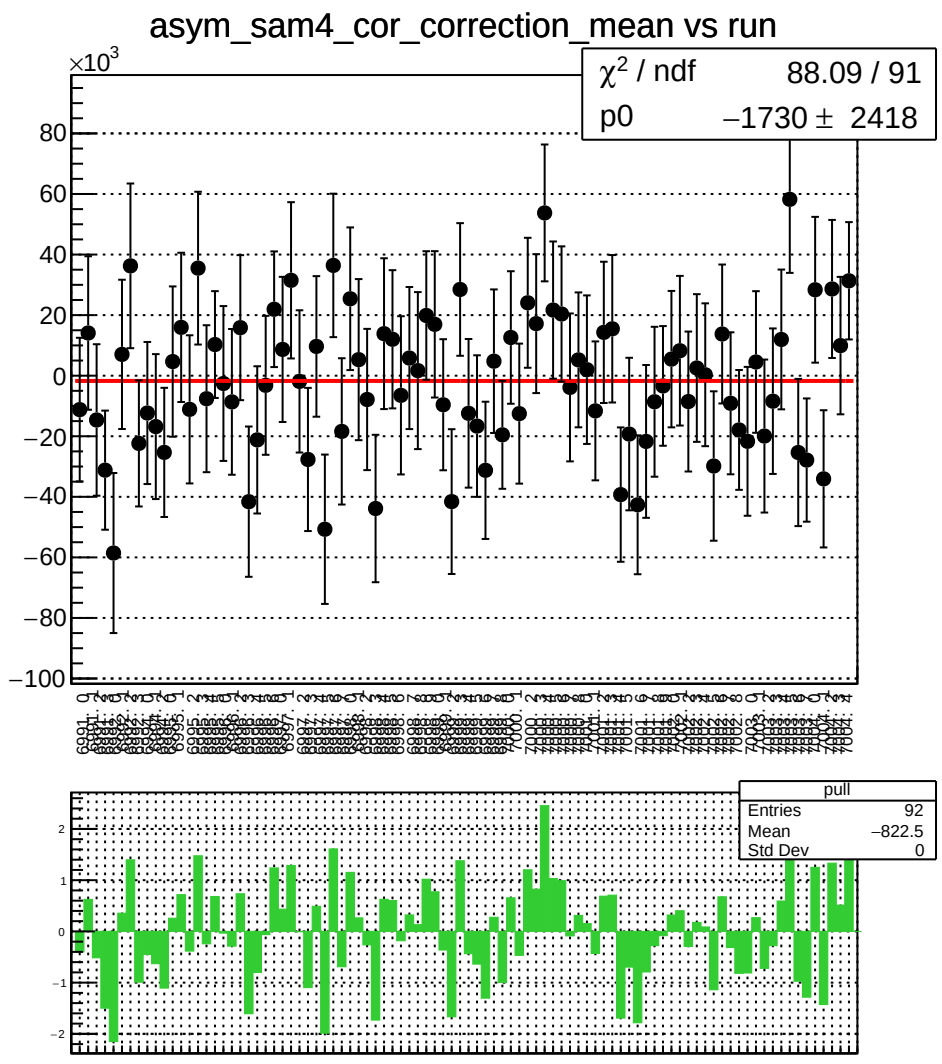

pull1D
Entries 92
Mean −0.00247
Std Dev 0.9785

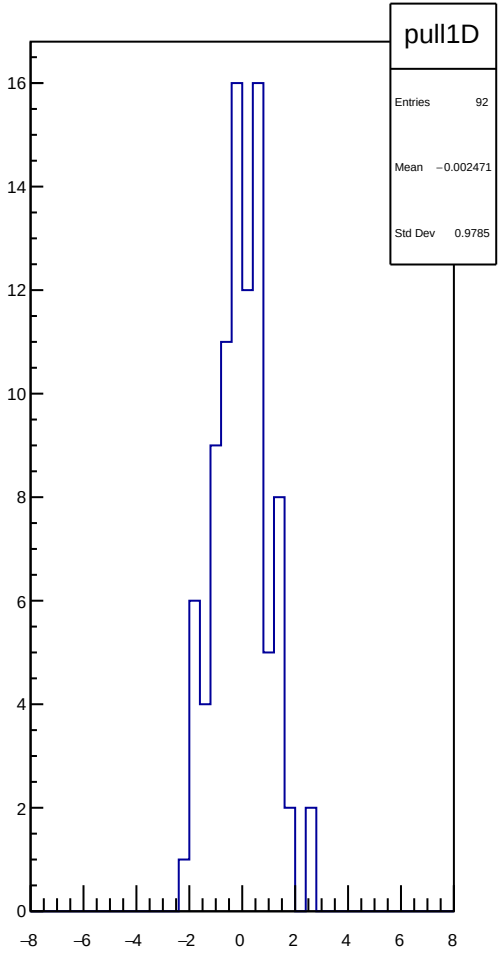

asym_sam4_reg_correction_rms vs run
χ² / ndf 4092 / 91
p0 2269 ± 1.709
2600
2500
2400
2300
2200
2100
2000

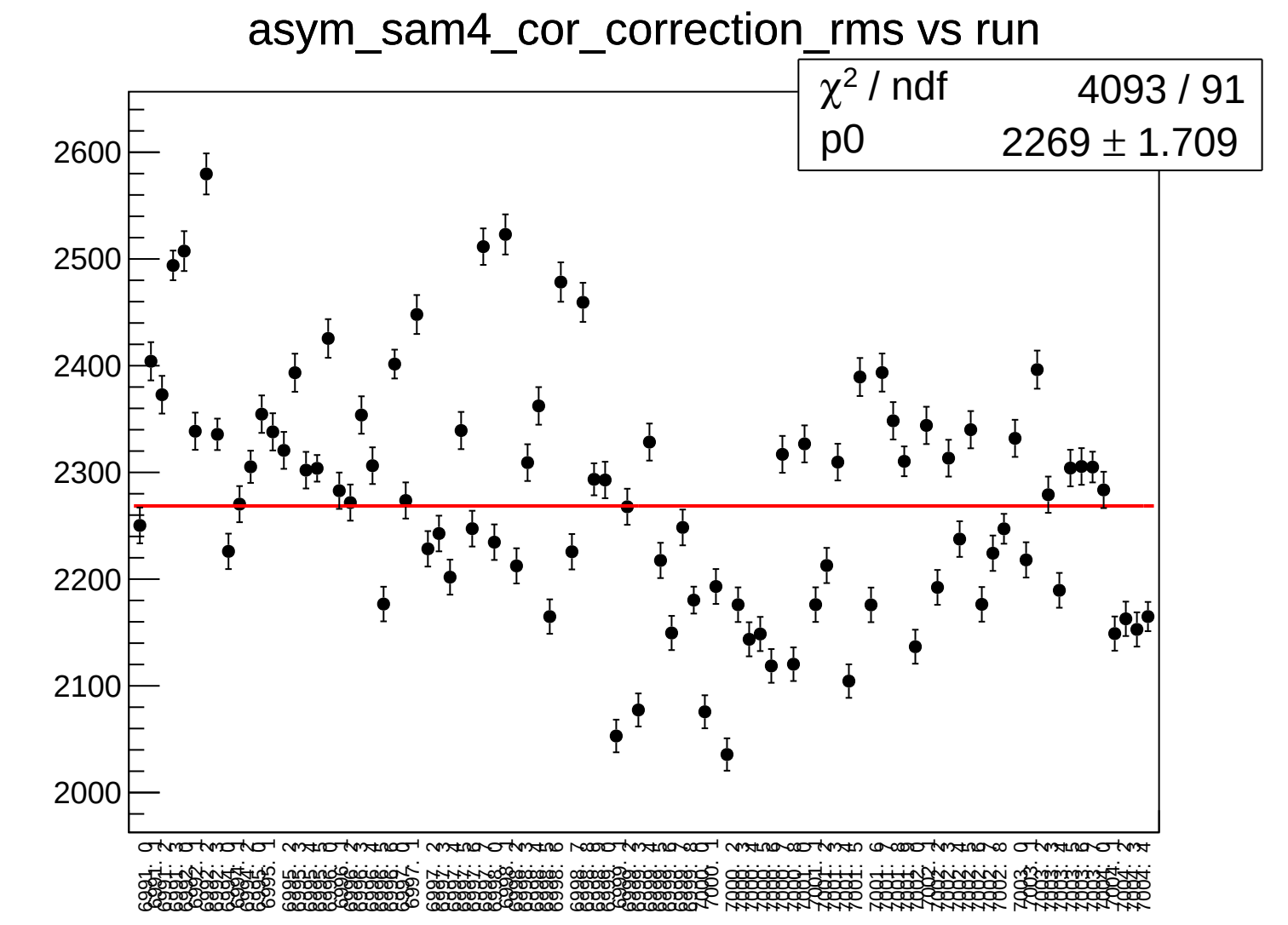

cor_asym_sam4_mean vs run
χ² / ndf 87.05 / 91
p0 −35.84 ± 285.1
pull
Entries 92
Mean −238.4
Std Dev 0

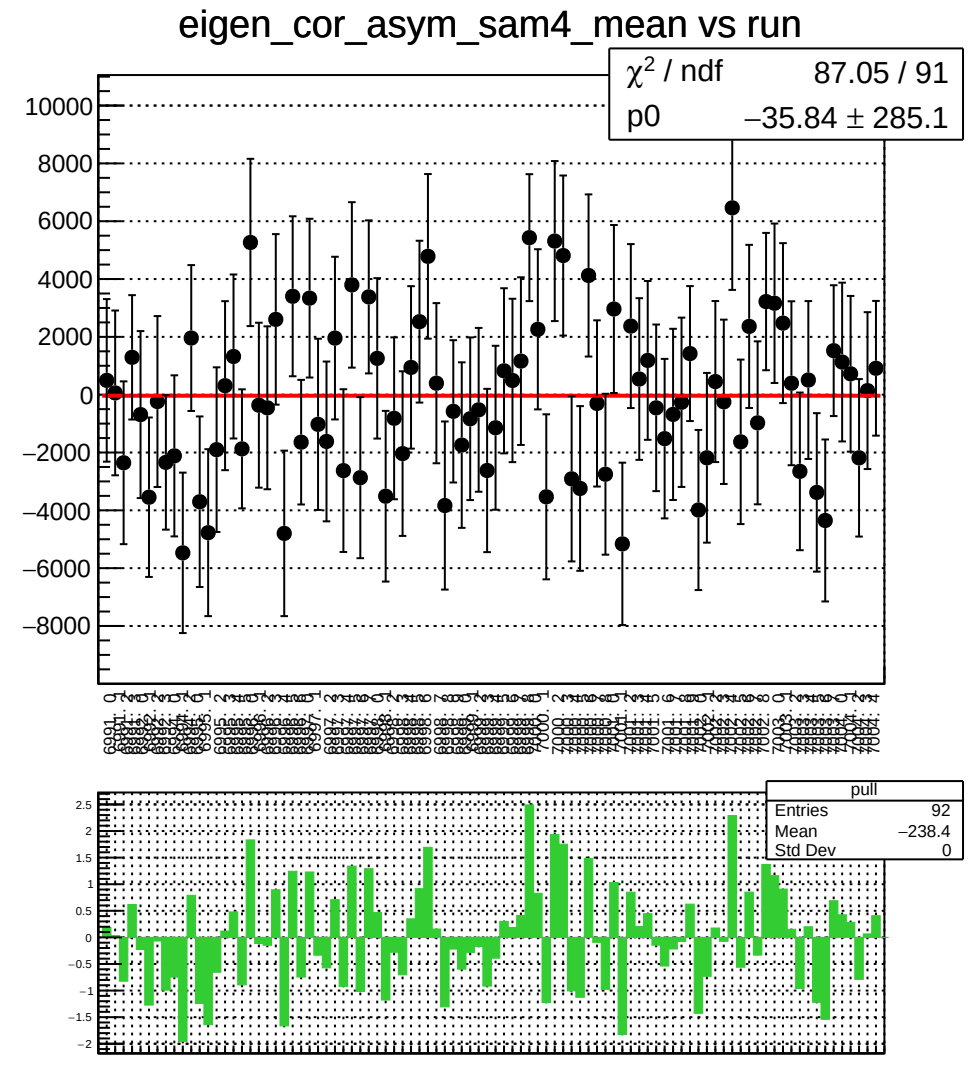

pull1D
Entries 92
Mean −0.01168
Std Dev 0.9726

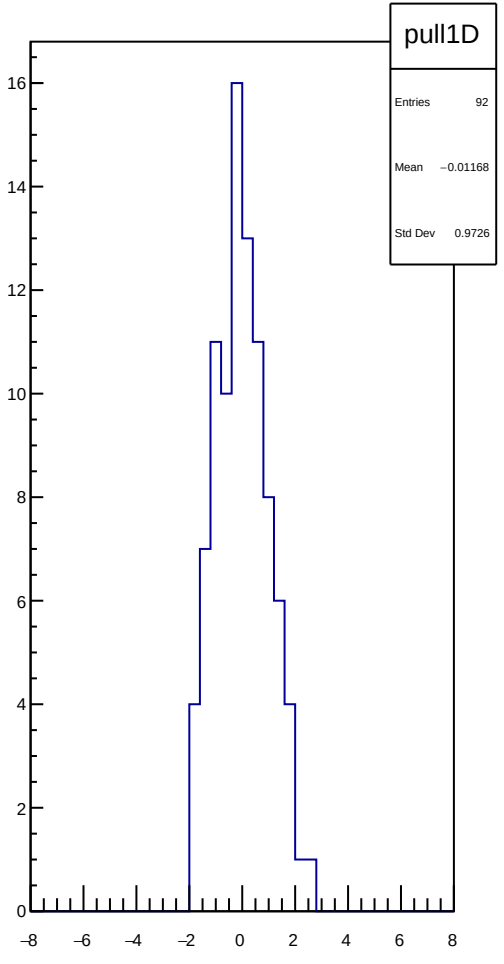

cor_asym_sam4_rms vs run
χ² / ndf 857 / 91
p0 267.8 ± 0.2016
285
280
275
270
265
260
255

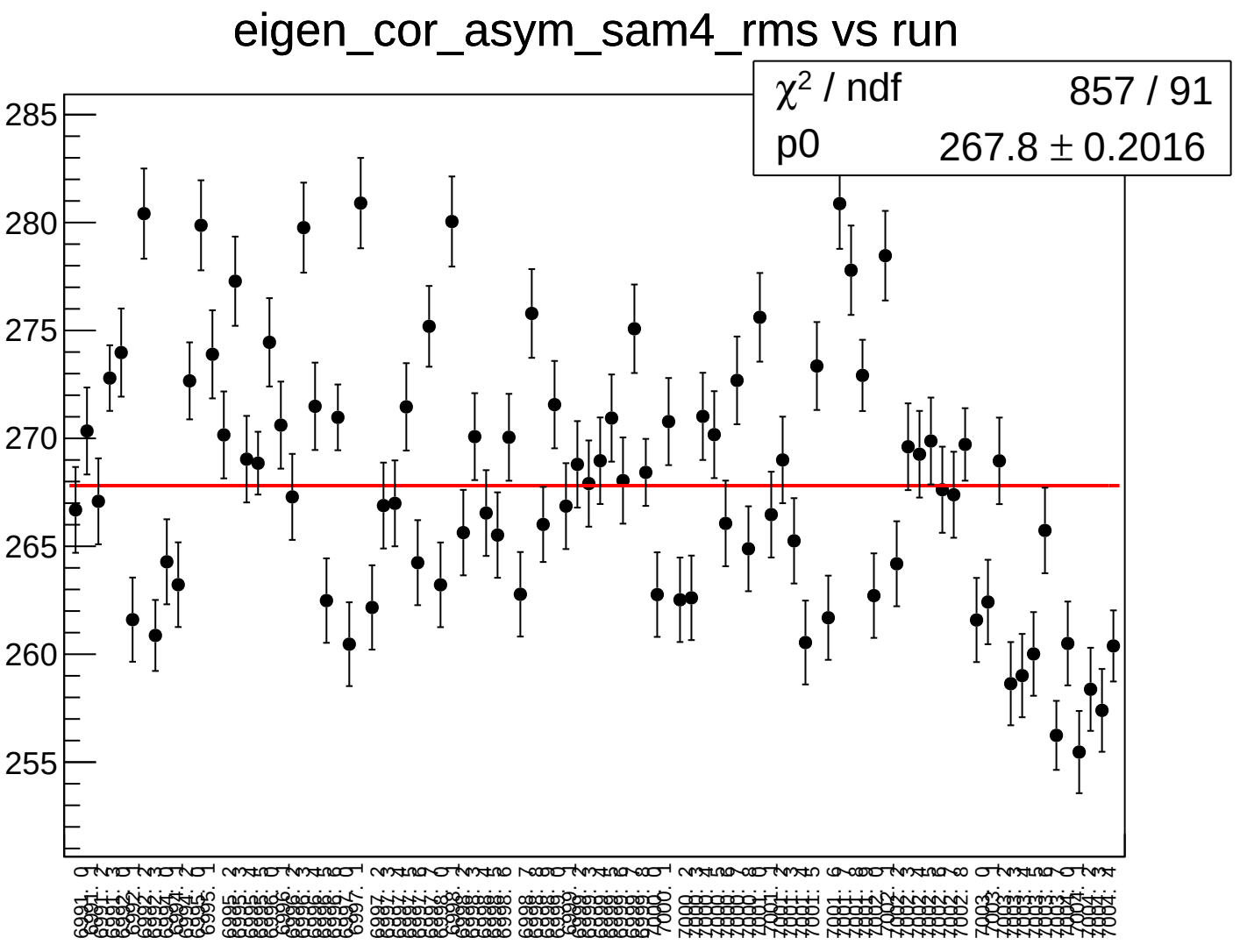

asym_sam4_cor_correction_mean vs run
χ² / ndf 88.09 / 91
p0 −1730 ± 2418
×10³
pull
Entries 92
Mean −822.5
Std Dev 0

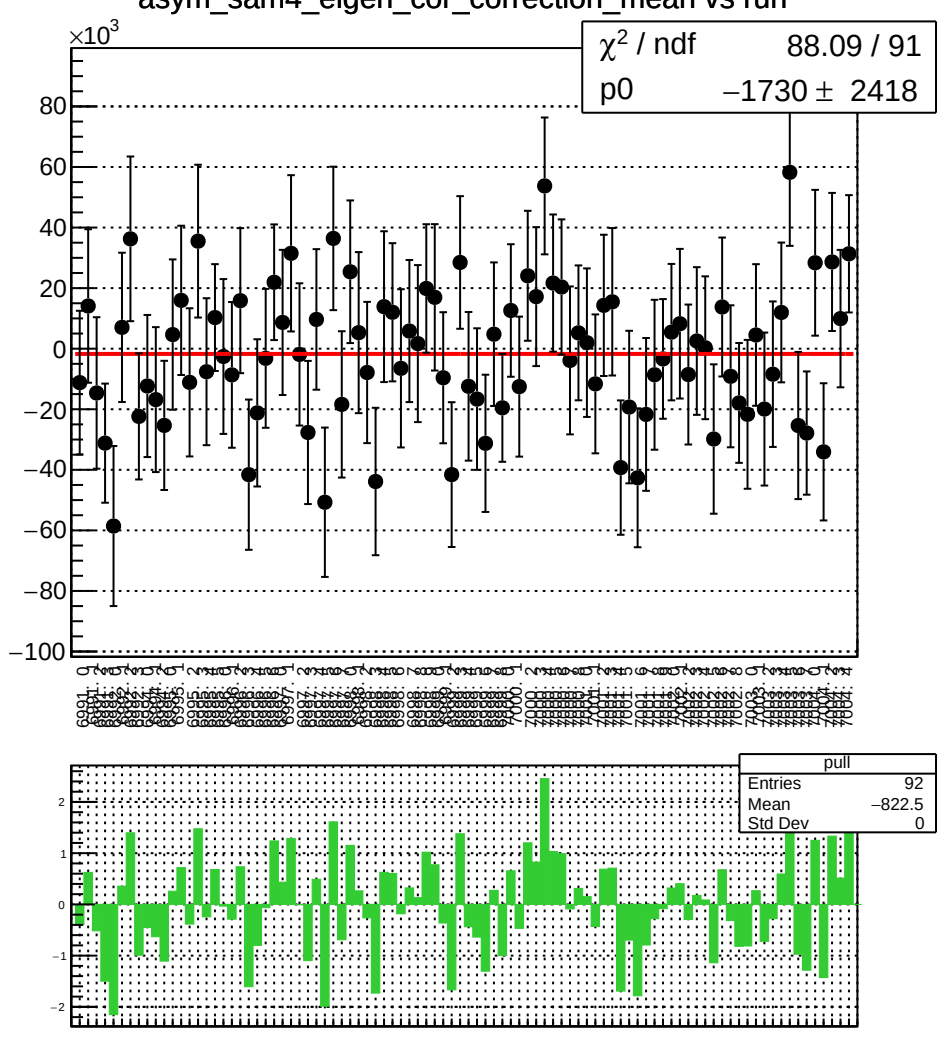

pull1D
Entries 92
Mean −0.002471
Std Dev 0.9785

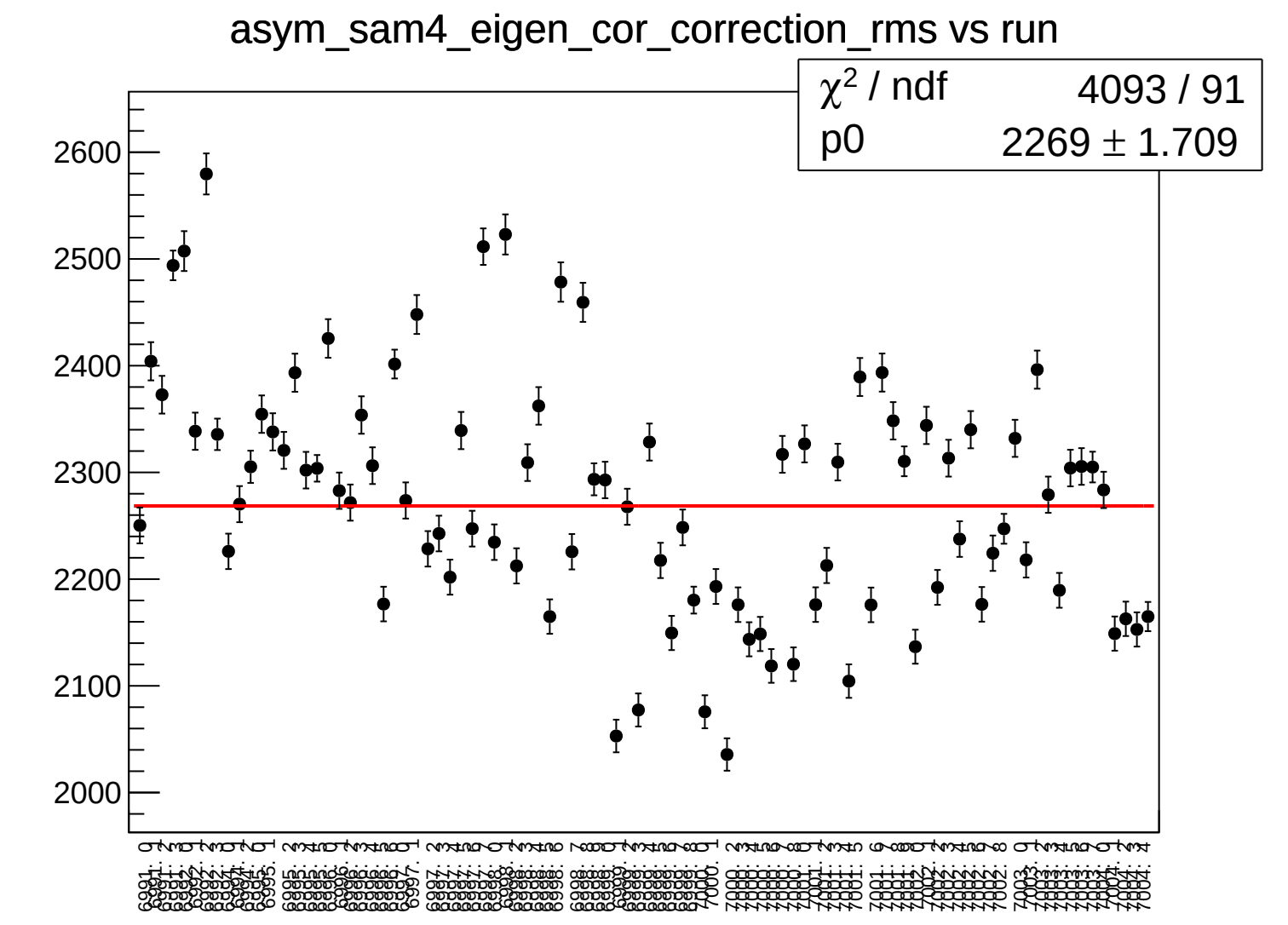

asym_sam4_cor_correction_rms vs run
χ² / ndf 4093 / 91
p0 2269 ± 1.709
2600
2500
2400
2300
2200
2100
2000

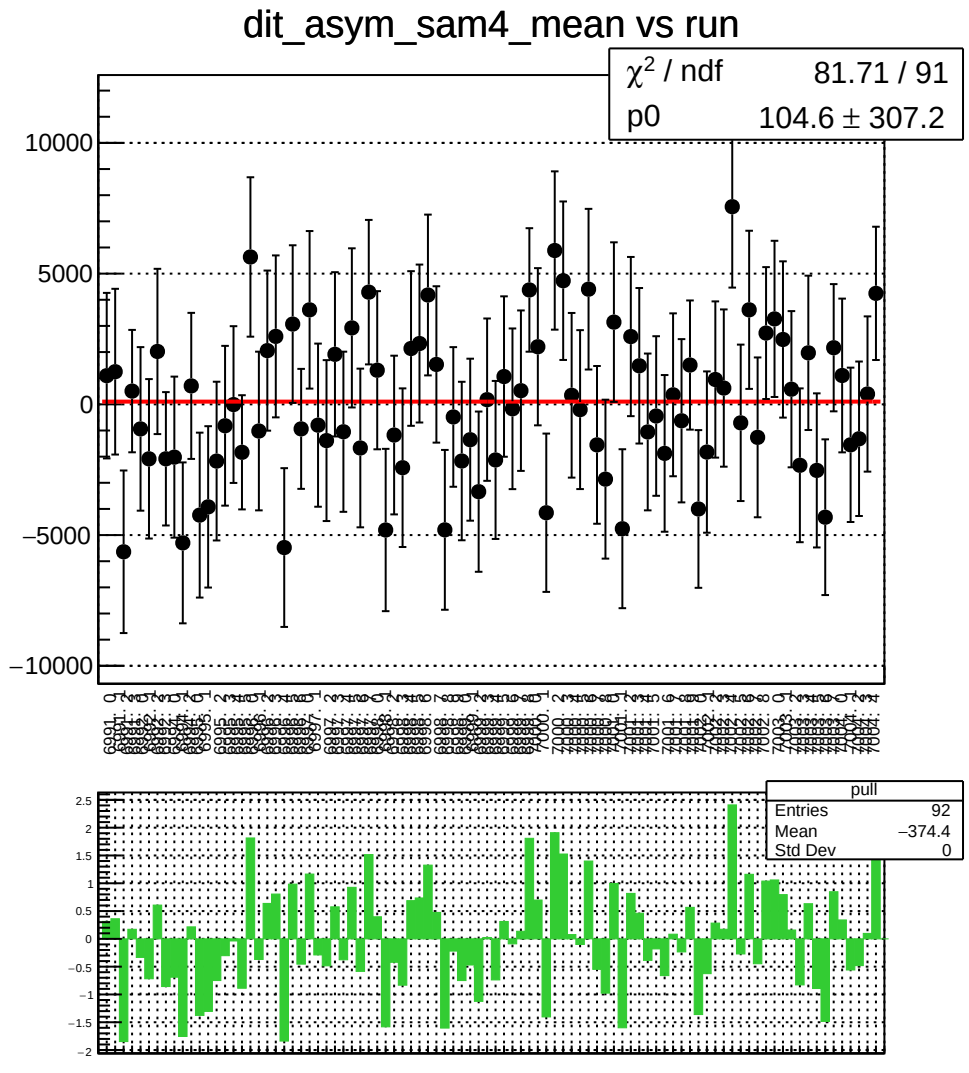

eigen_cor_asym_sam4_mean vs run
χ² / ndf 87.05 / 91
p0 −35.84 ± 285.1
pull
Entries 92
Mean −238.4
Std Dev 0

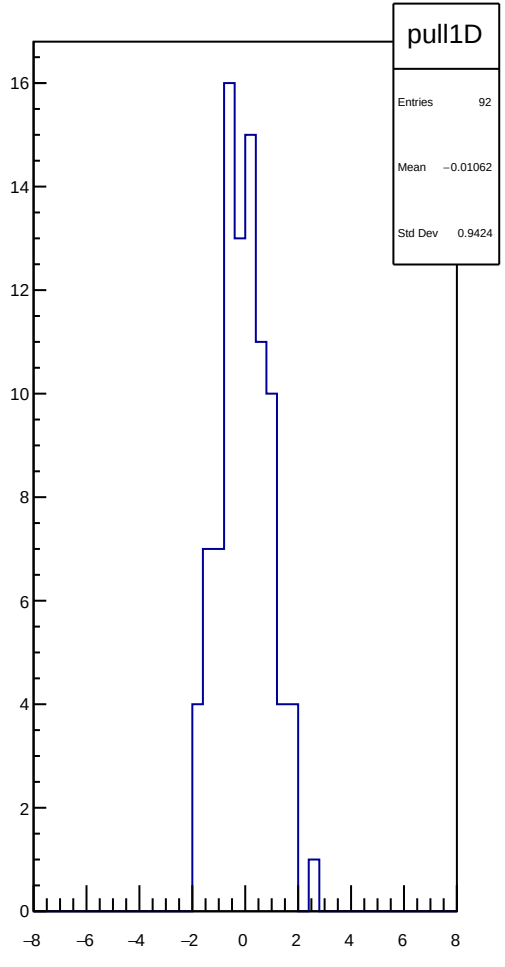

pull1D
Entries 92
Mean −0.01168
Std Dev 0.9726

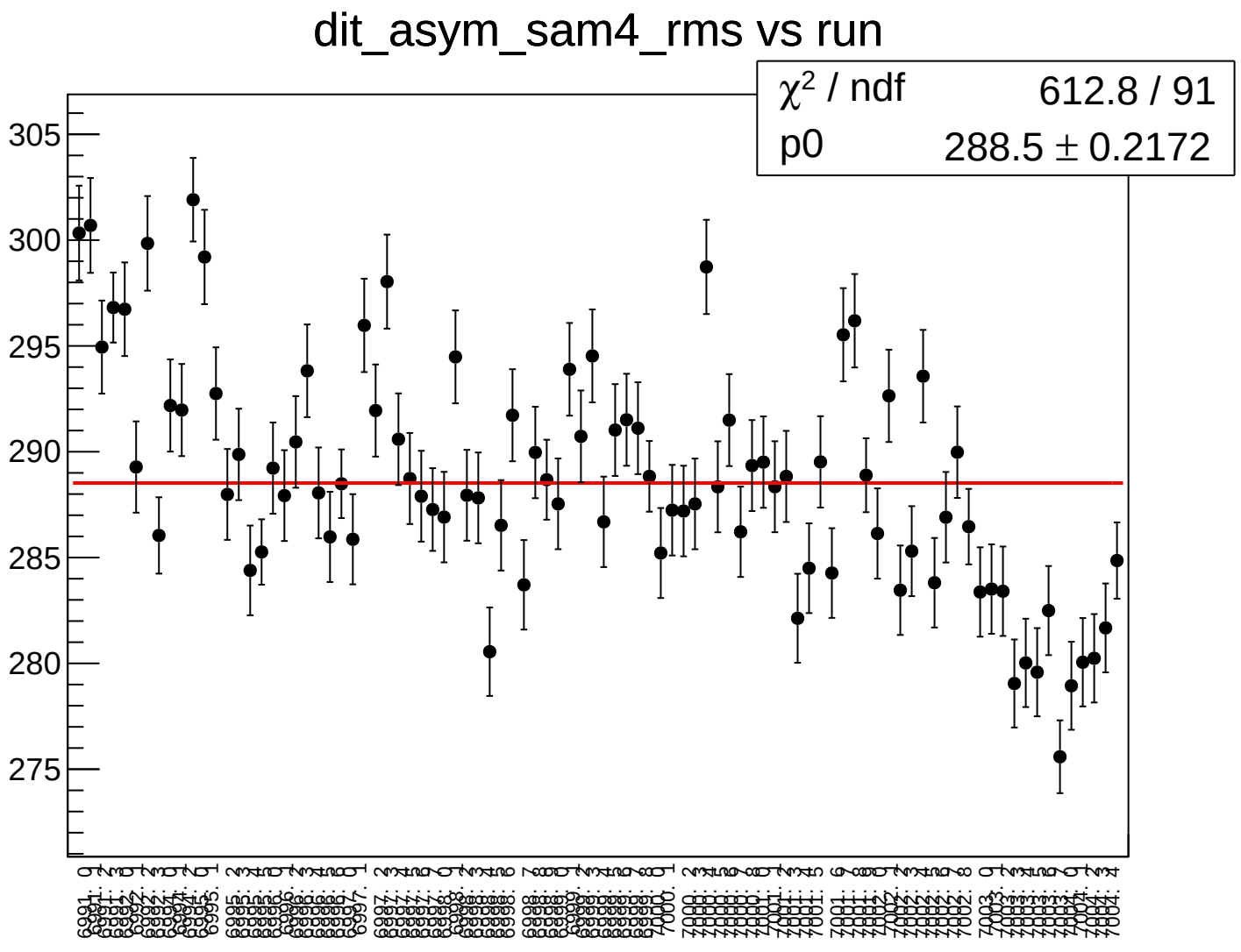

eigen_cor_asym_sam4_rms vs run
χ² / ndf 857 / 91
p0 267.8 ± 0.2016
285
280
275
270
265
260
255

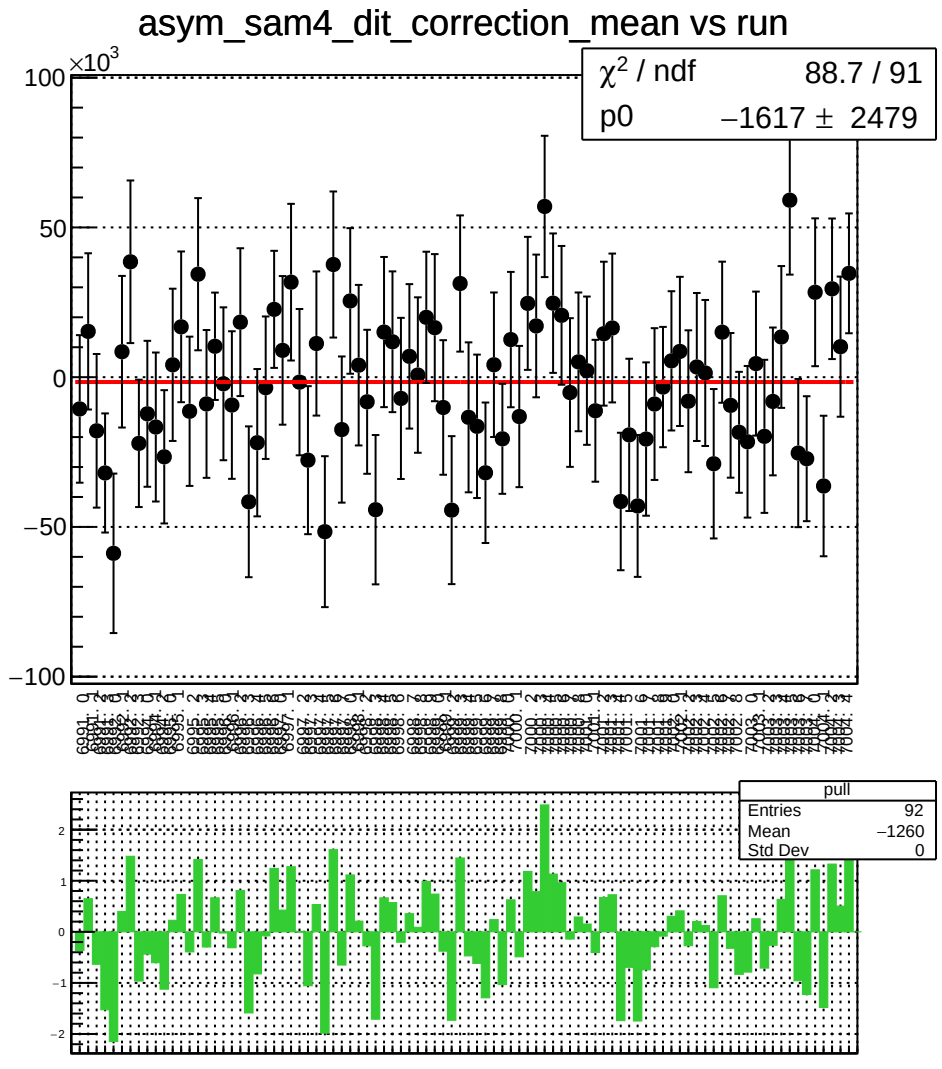

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 88.09 / 91
p0 −1730 ± 2418
pull
Entries 92
Mean −822.5
Std Dev 0
pull1D
Entries 92
Mean −0.002471
Std Dev 0.9785

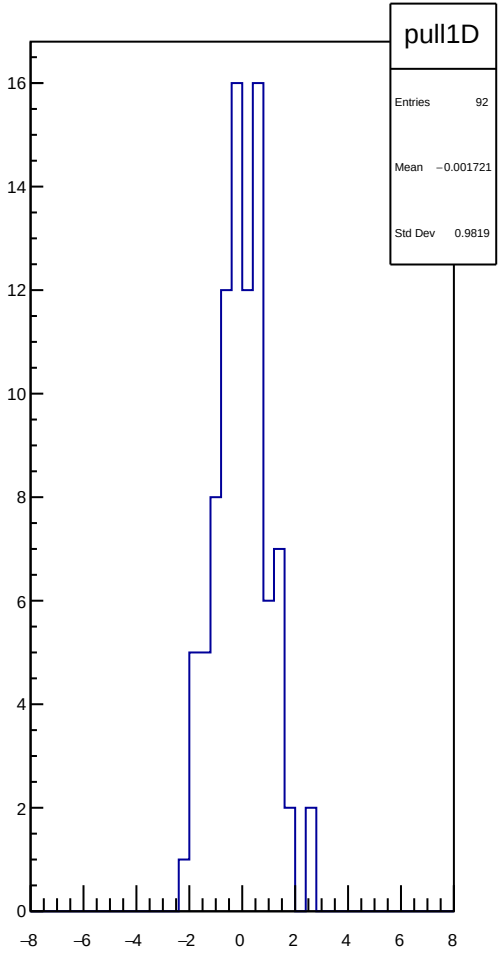

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 4093 / 91
p0 2269 ± 1.709
2600
2500
2400
2300
2200
2100
2000

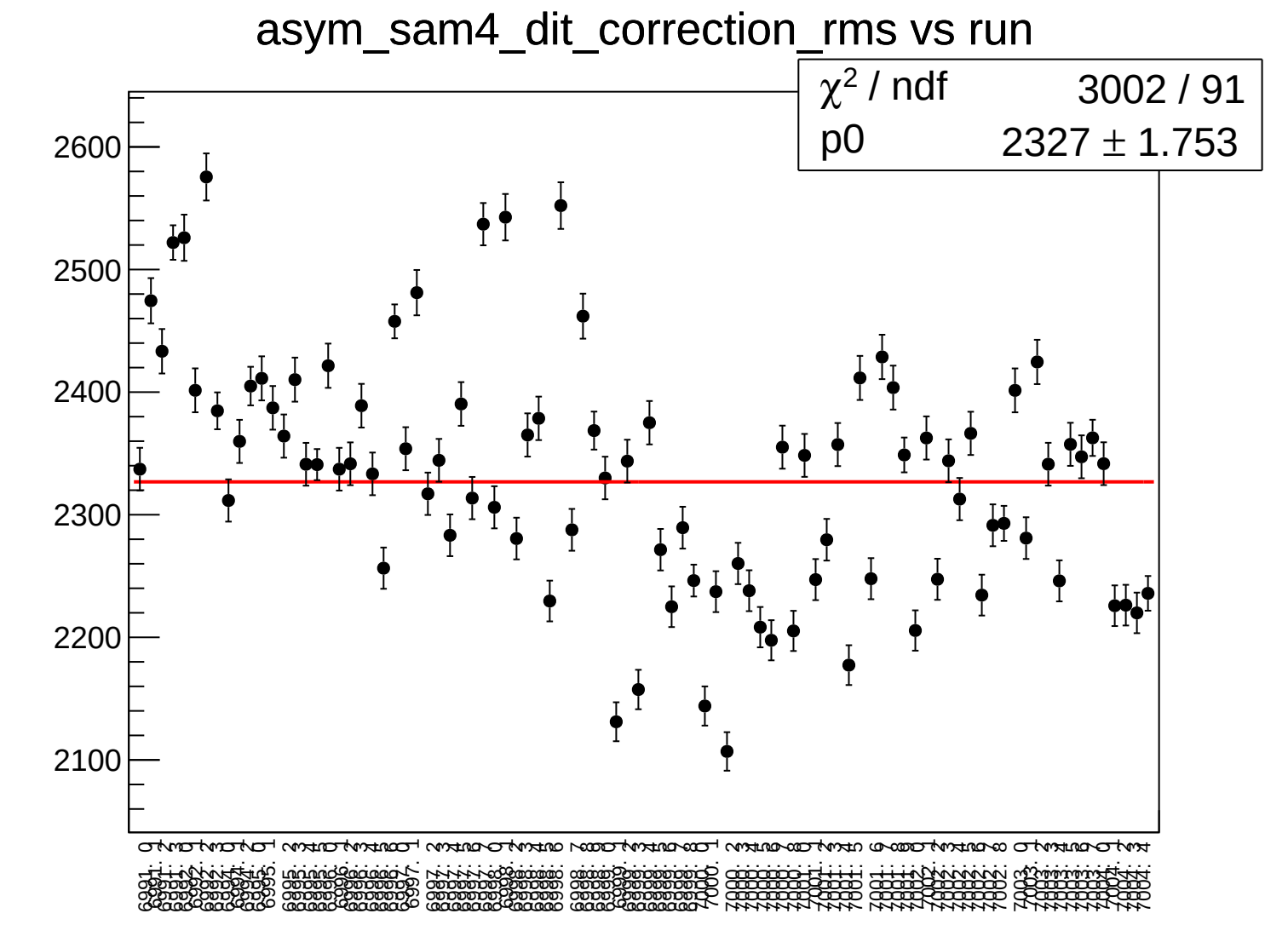

dit_asym_sam4_mean vs run
χ^2 / ndf 81.71 / 91
p0 104.6 ± 307.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −374.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

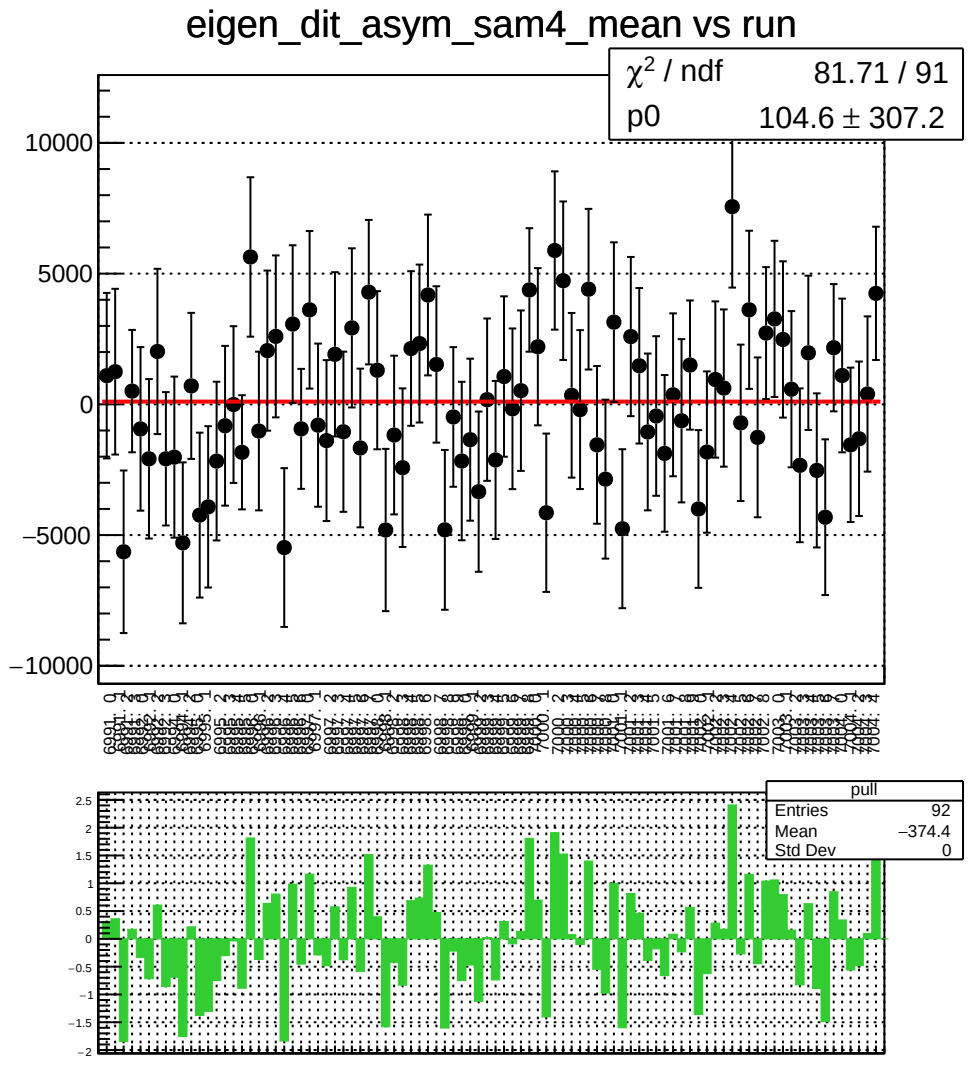

pull1D
Entries 92
Mean −0.01062
Std Dev 0.9424
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

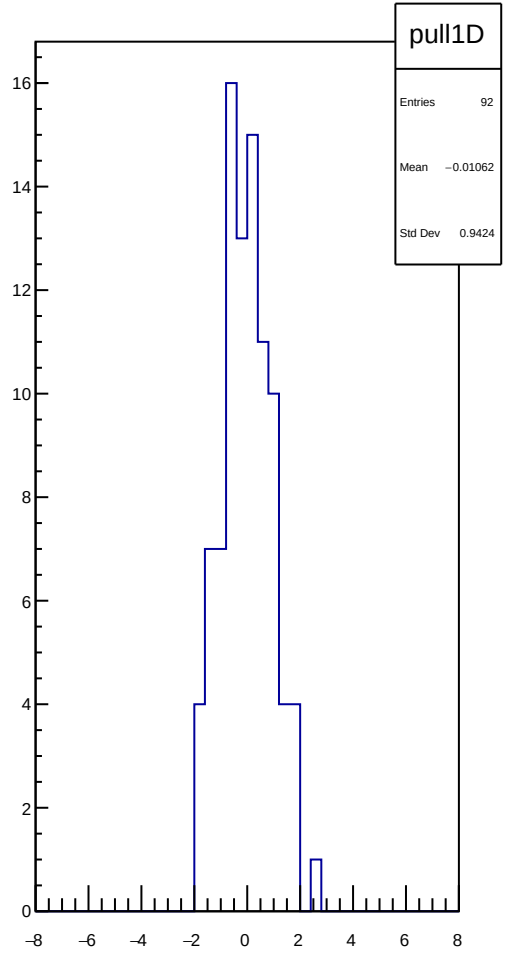

dit_asym_sam4_rms vs run
χ² / ndf 612.8 / 91
p0 288.5 ± 0.2172
305
300
295
290
285
280
275

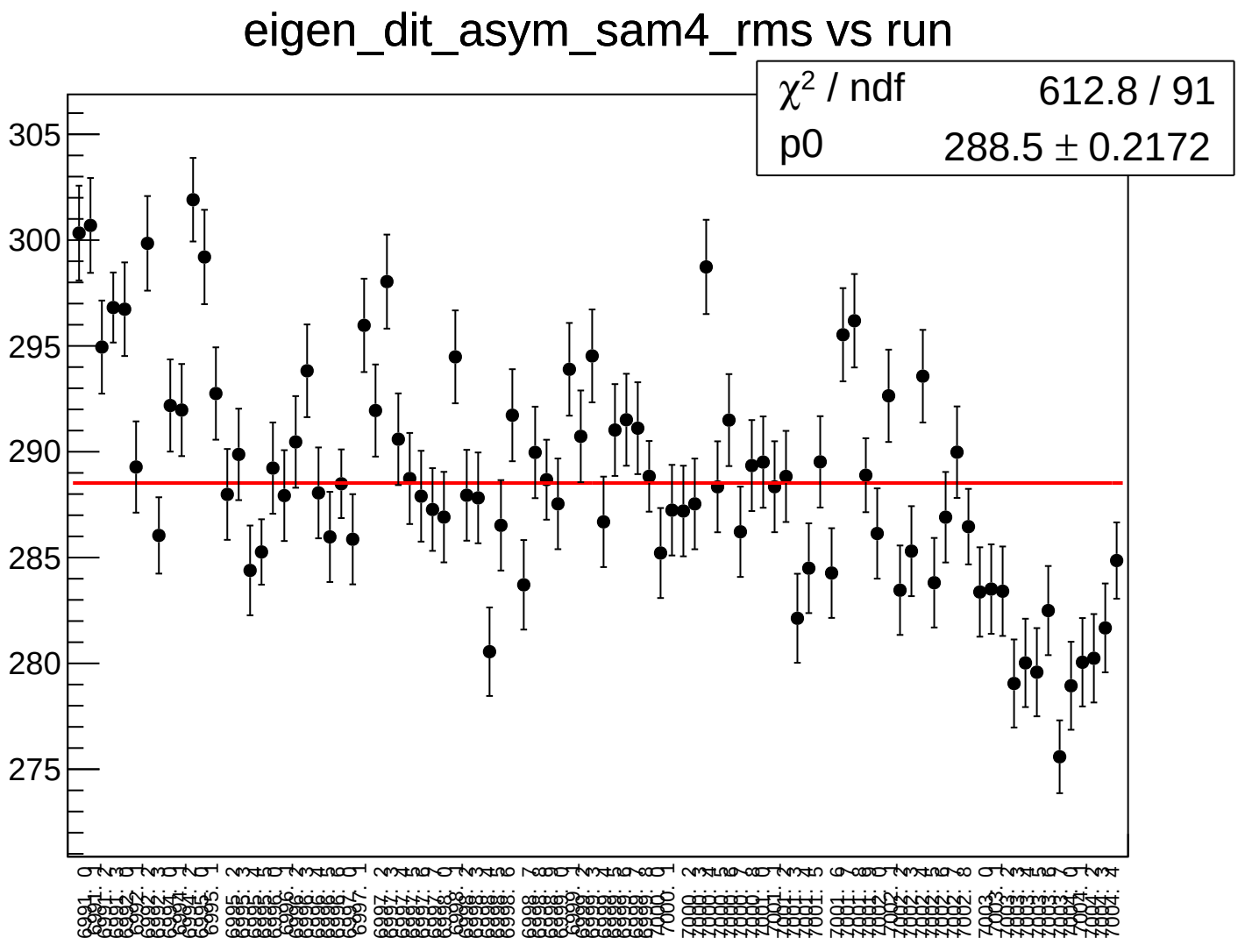

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 88.7 / 91
p0 −1617 ± 2479
pull
Entries 92
Mean −1260
Std Dev 0

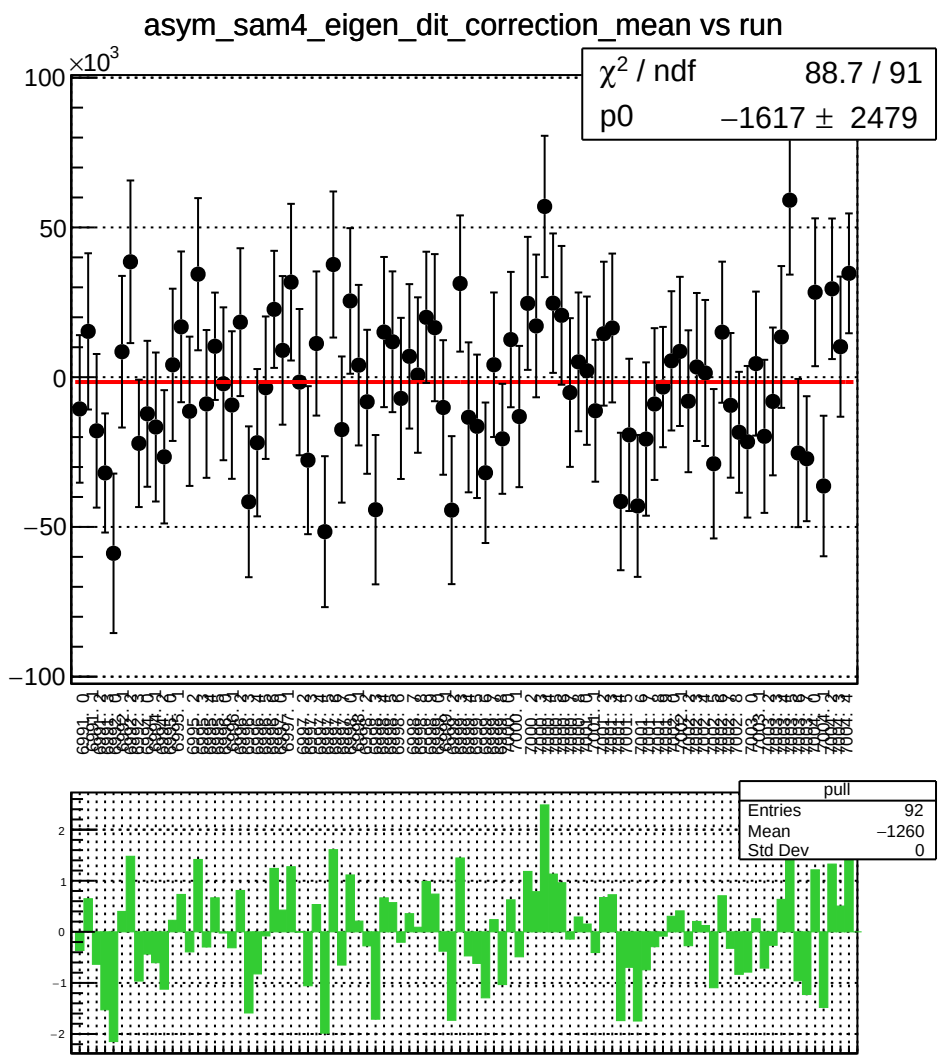

pull1D
Entries 92
Mean −0.001721
Std Dev 0.9819

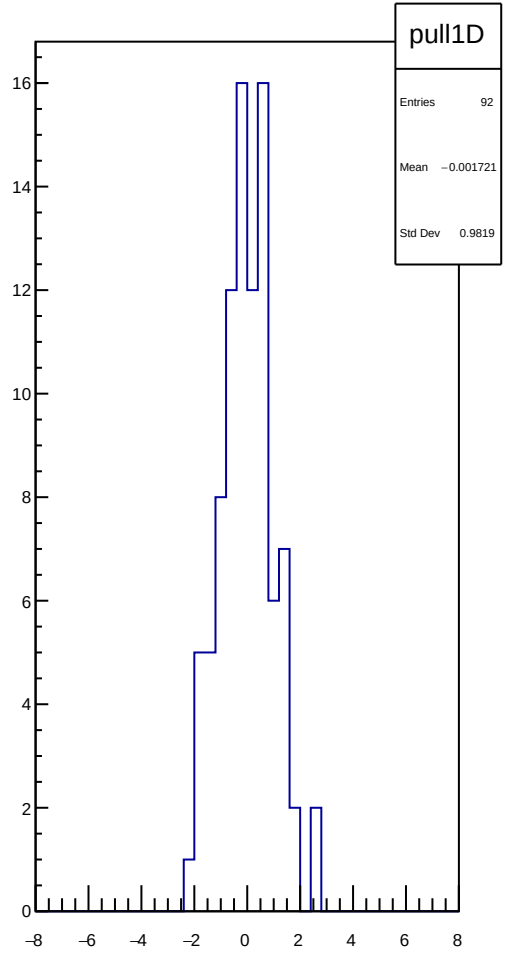

asym_sam4_dit_correction_rms vs run
χ² / ndf 3002 / 91
p0 2327 ± 1.753
2600
2500
2400
2300
2200
2100

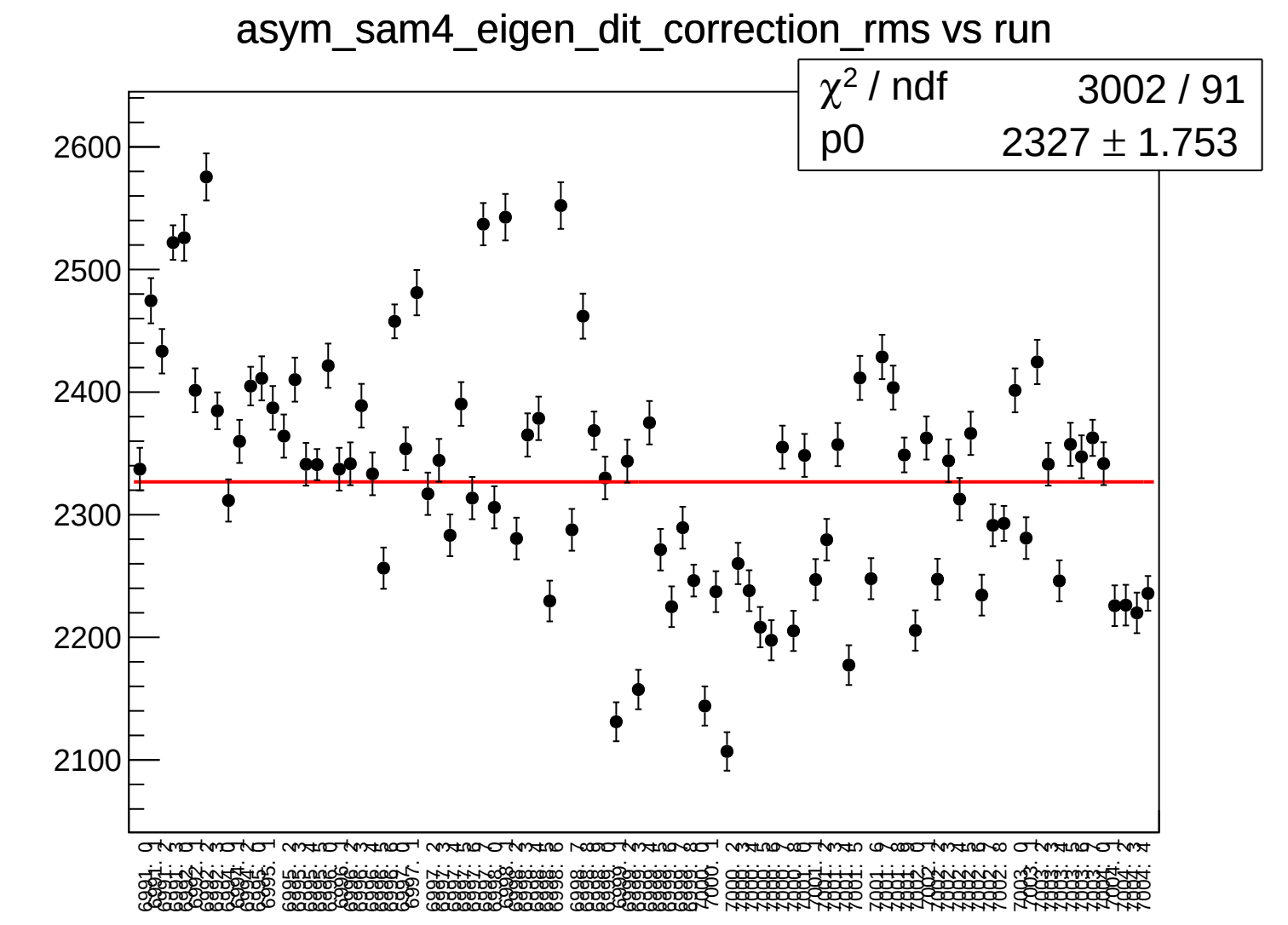

eigen_dit_asym_sam4_mean vs run
χ² / ndf 81.71 / 91
p0 104.6 ± 307.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −374.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

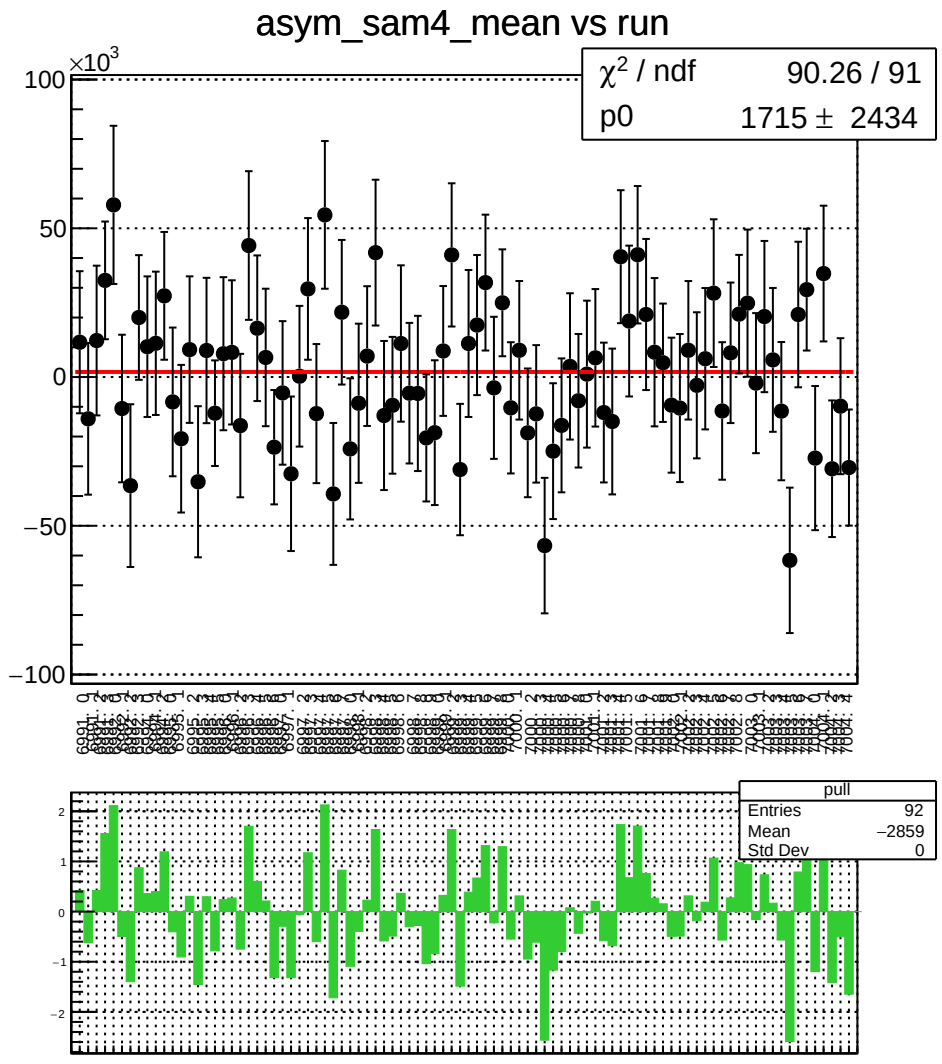

pull1D
Entries 92
Mean −0.01062
Std Dev 0.9424
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

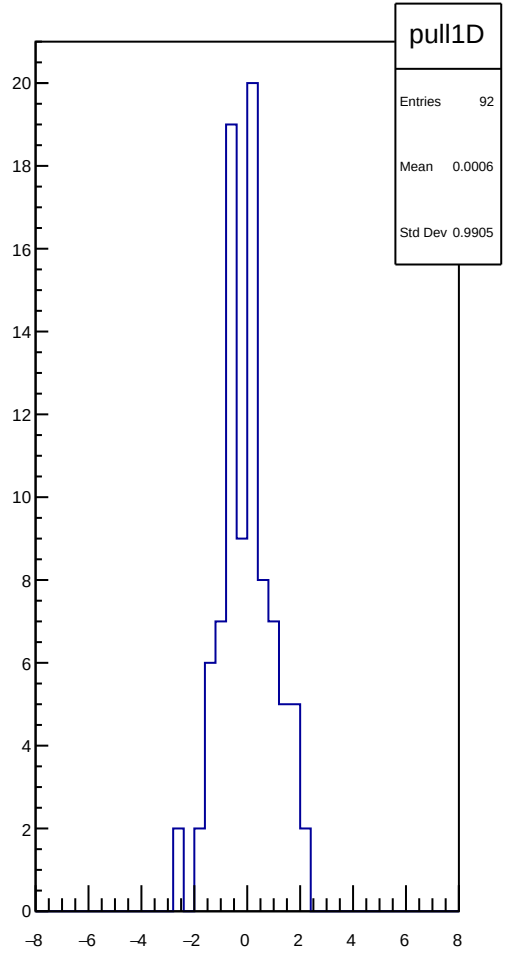

eigen_dit_asym_sam4_rms vs run
χ² / ndf 612.8 / 91
p0 288.5 ± 0.2172
305
300
295
290
285
280
275

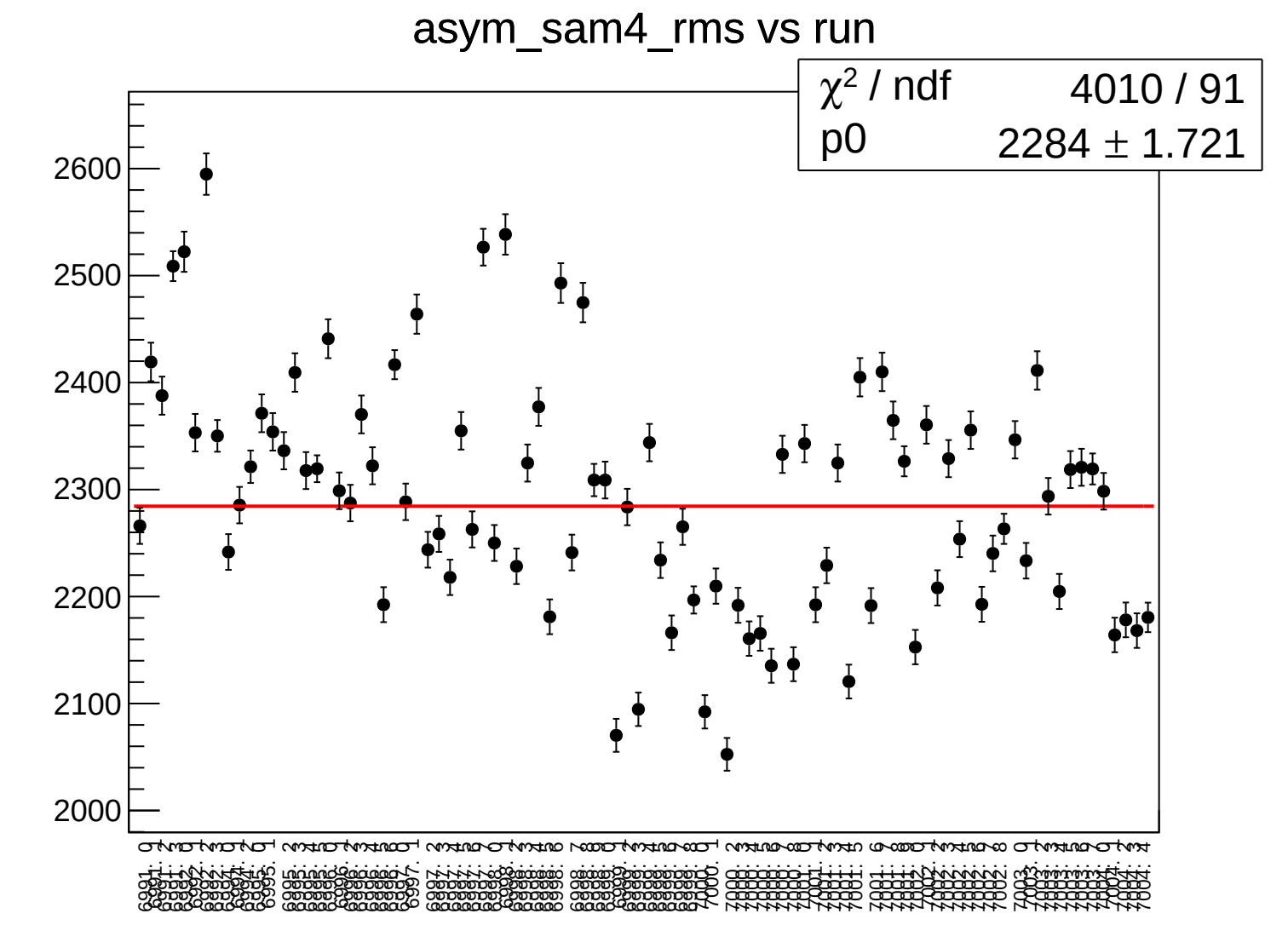

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 88.7 / 91
p0 −1617 ± 2479
×10³
100
50
0
−50
−100
pull
Entries 92
Mean −1260
Std Dev 0
2
1
0
−1
−2

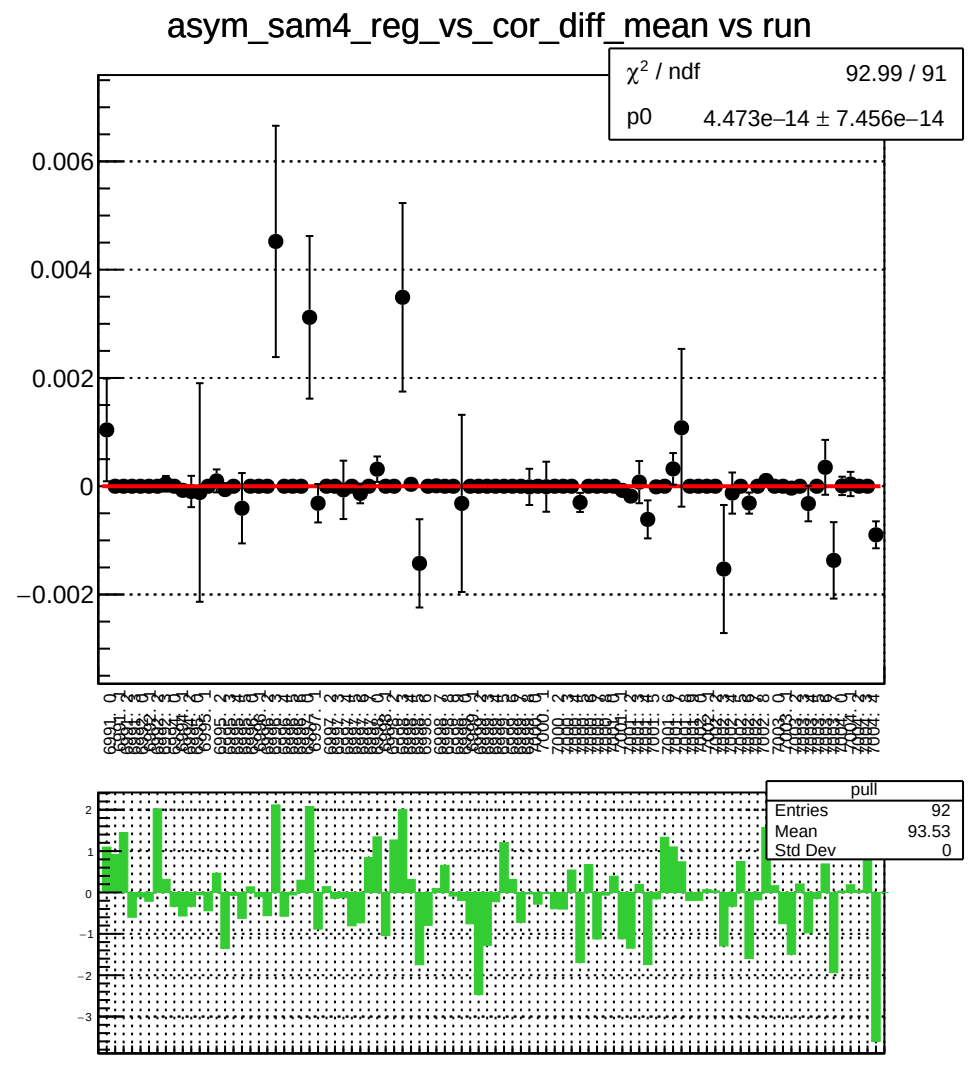

pull1D
Entries 92
Mean −0.001721
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

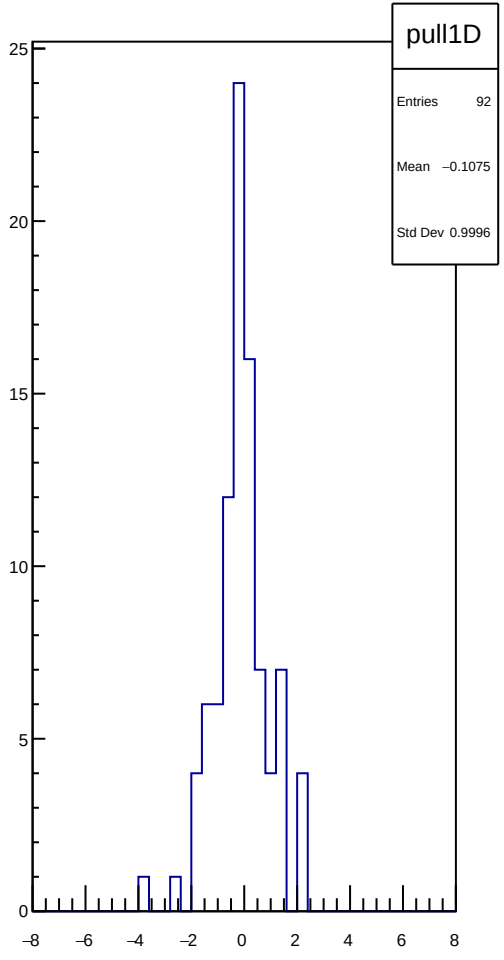

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 3002 / 91
p0 2327 ± 1.753
2600
2500
2400
2300
2200
2100

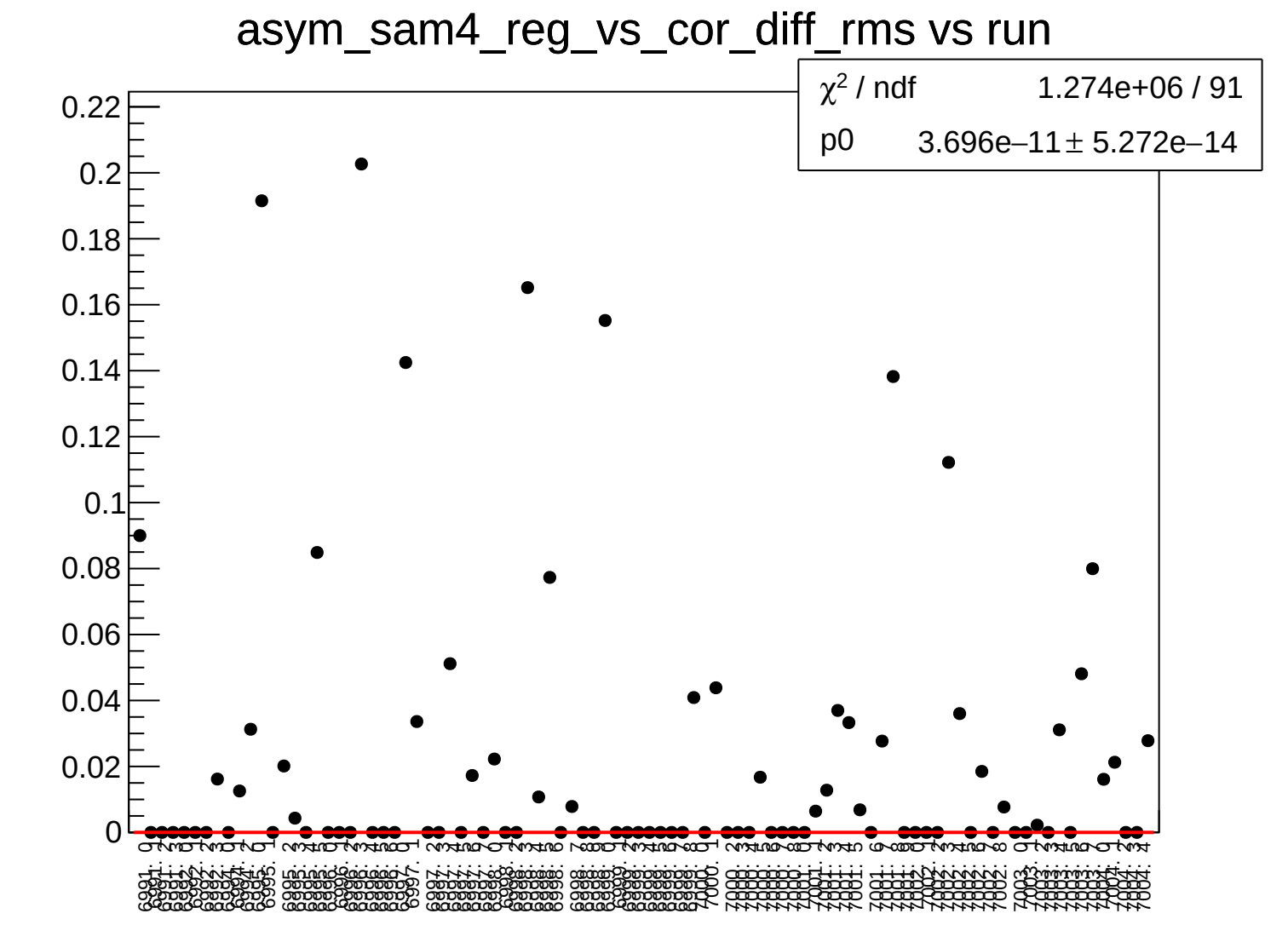

asym_sam4_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 90.26 / 91
p0 1715 ± 2434
pull
Entries 92
Mean −2859
Std Dev 0
2
1
0
−1
−2

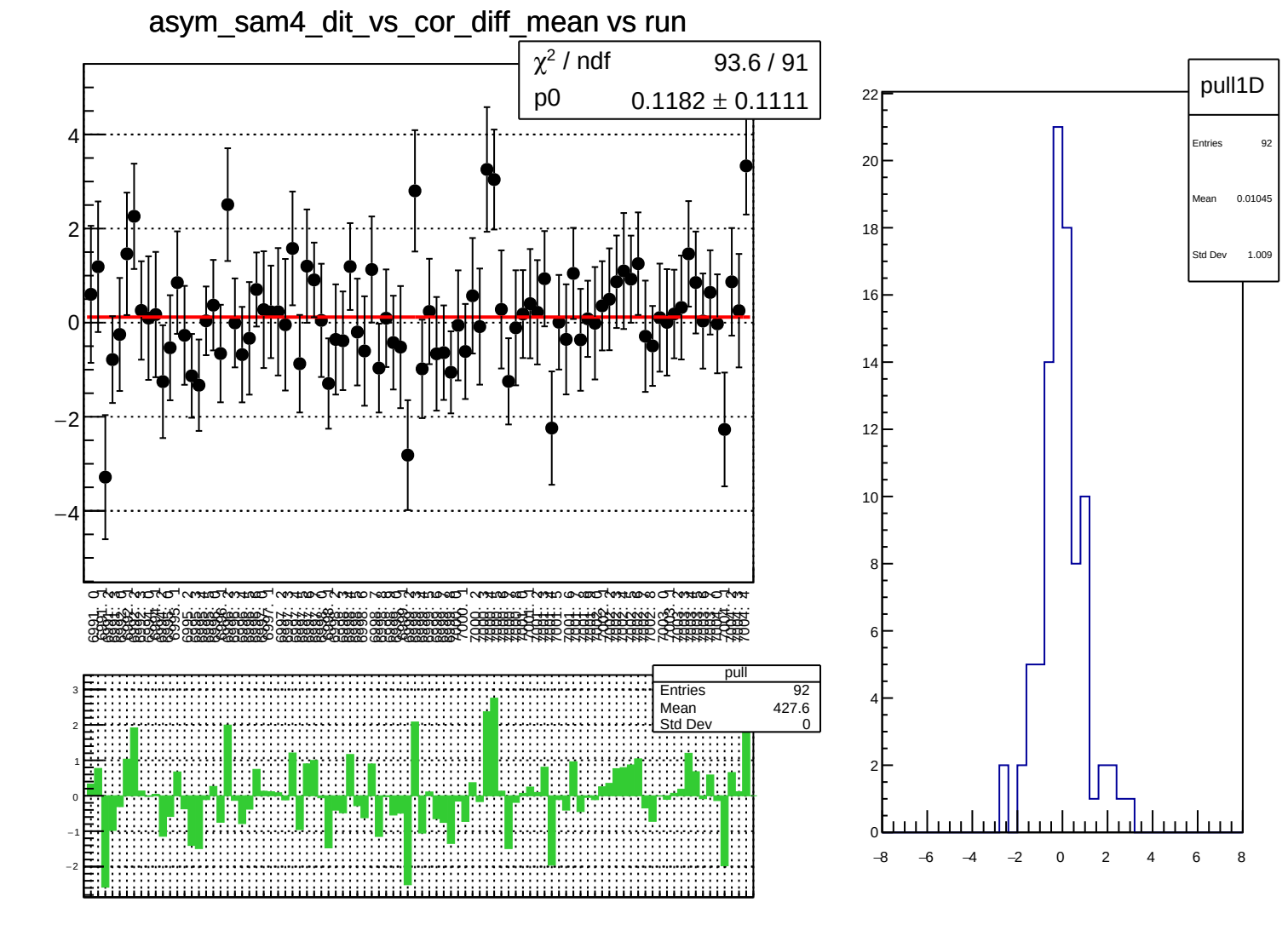

pull1D
Entries 92
Mean 0.0006
Std Dev 0.9905
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

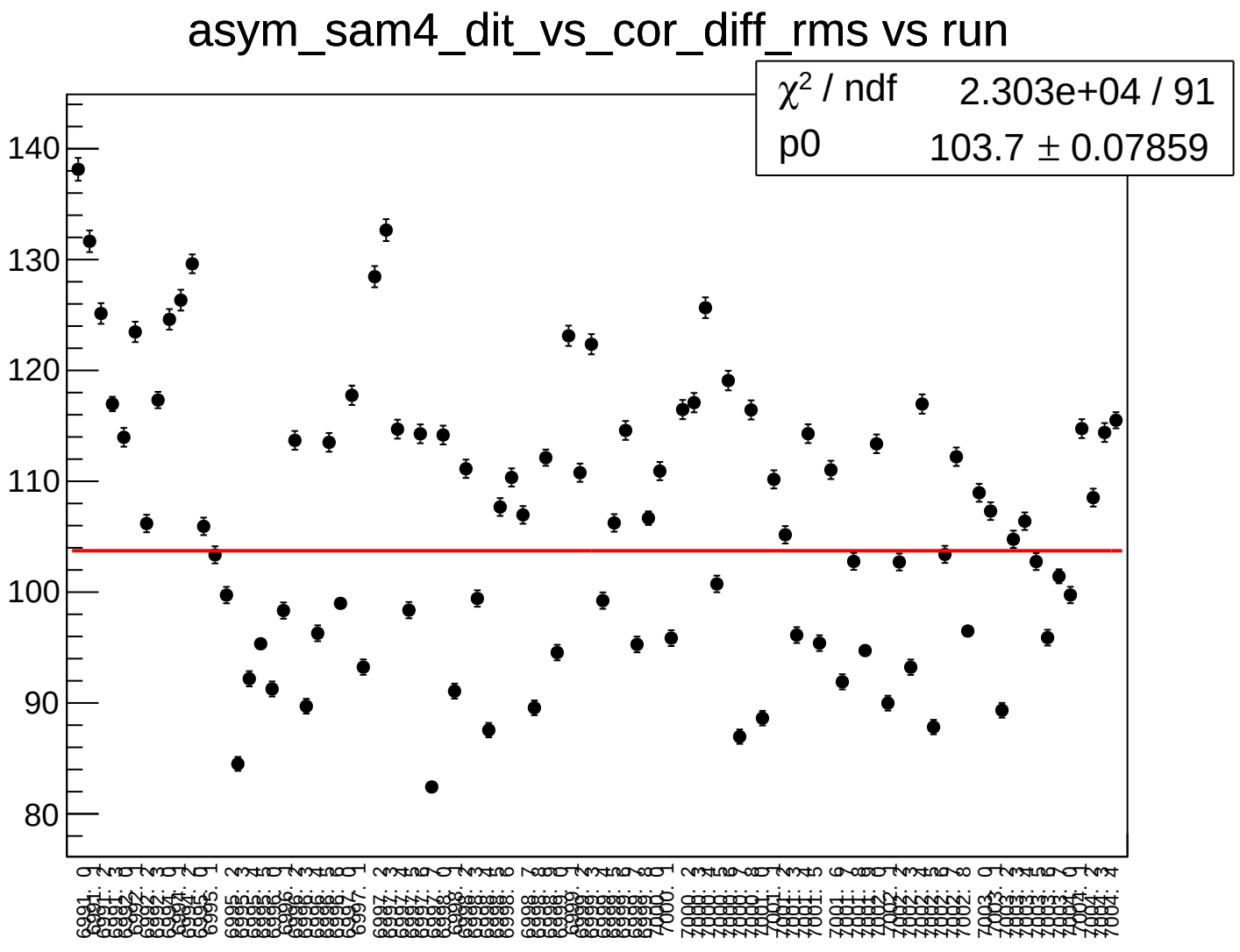

asym_sam4_rms vs run
χ² / ndf 4010 / 91
p0 2284 ± 1.721
2600
2500
2400
2300
2200
2100
2000

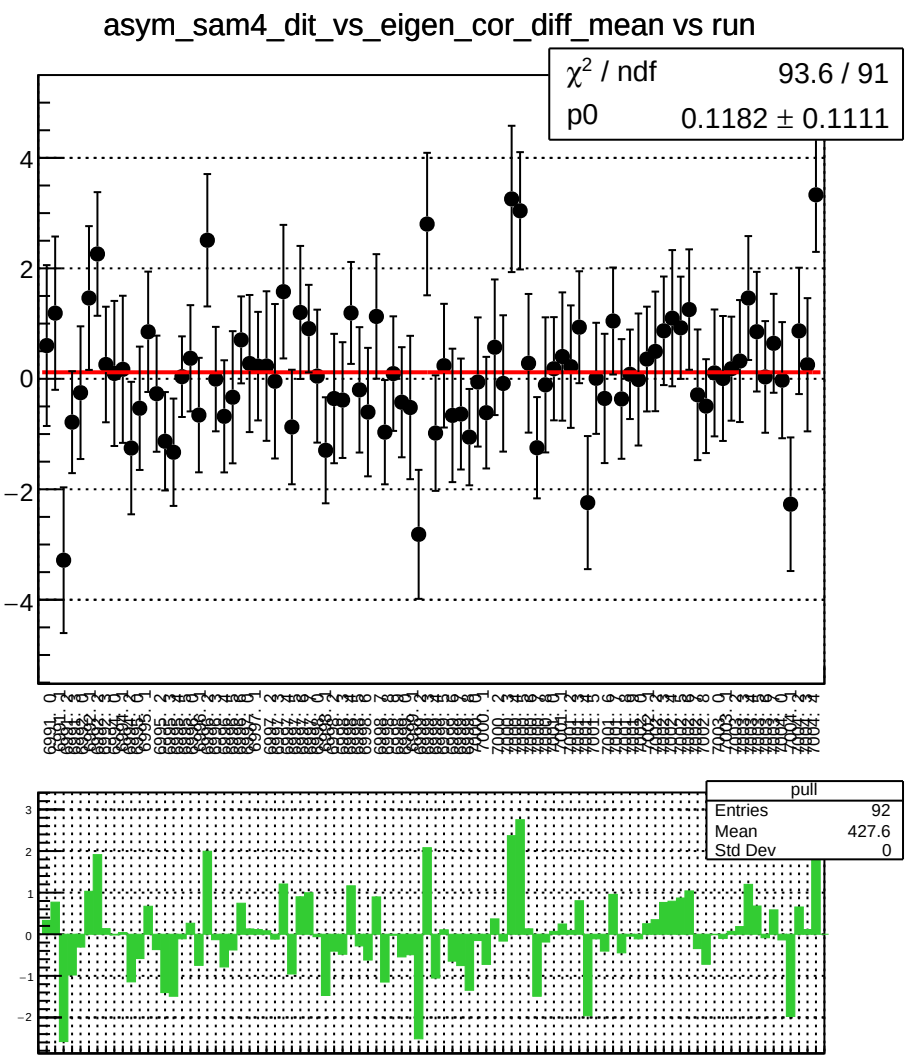

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 92.99 / 91
p0 4.473e−14 ± 7.456e−14
0.006
0.004
0.002
0
−0.002
pull
Entries 92
Mean 93.53
Std Dev 0

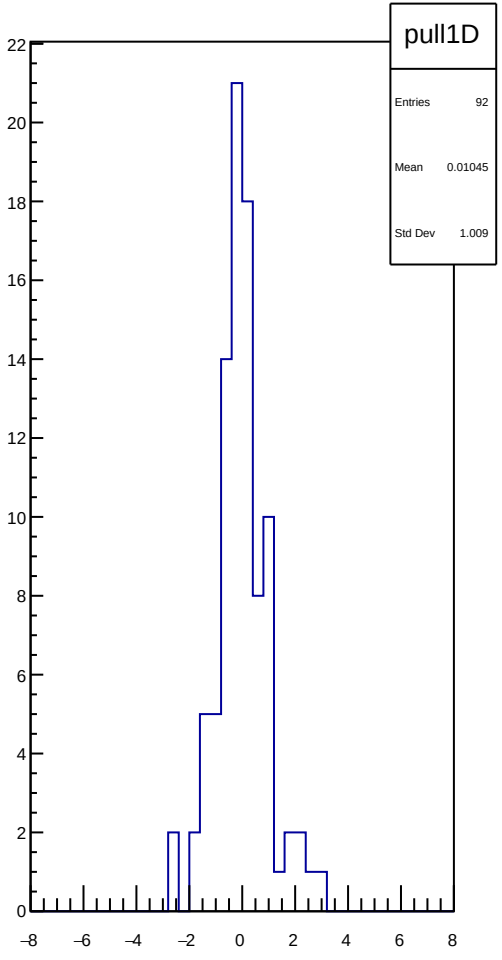

pull1D
Entries 92
Mean −0.1075
Std Dev 0.9996
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

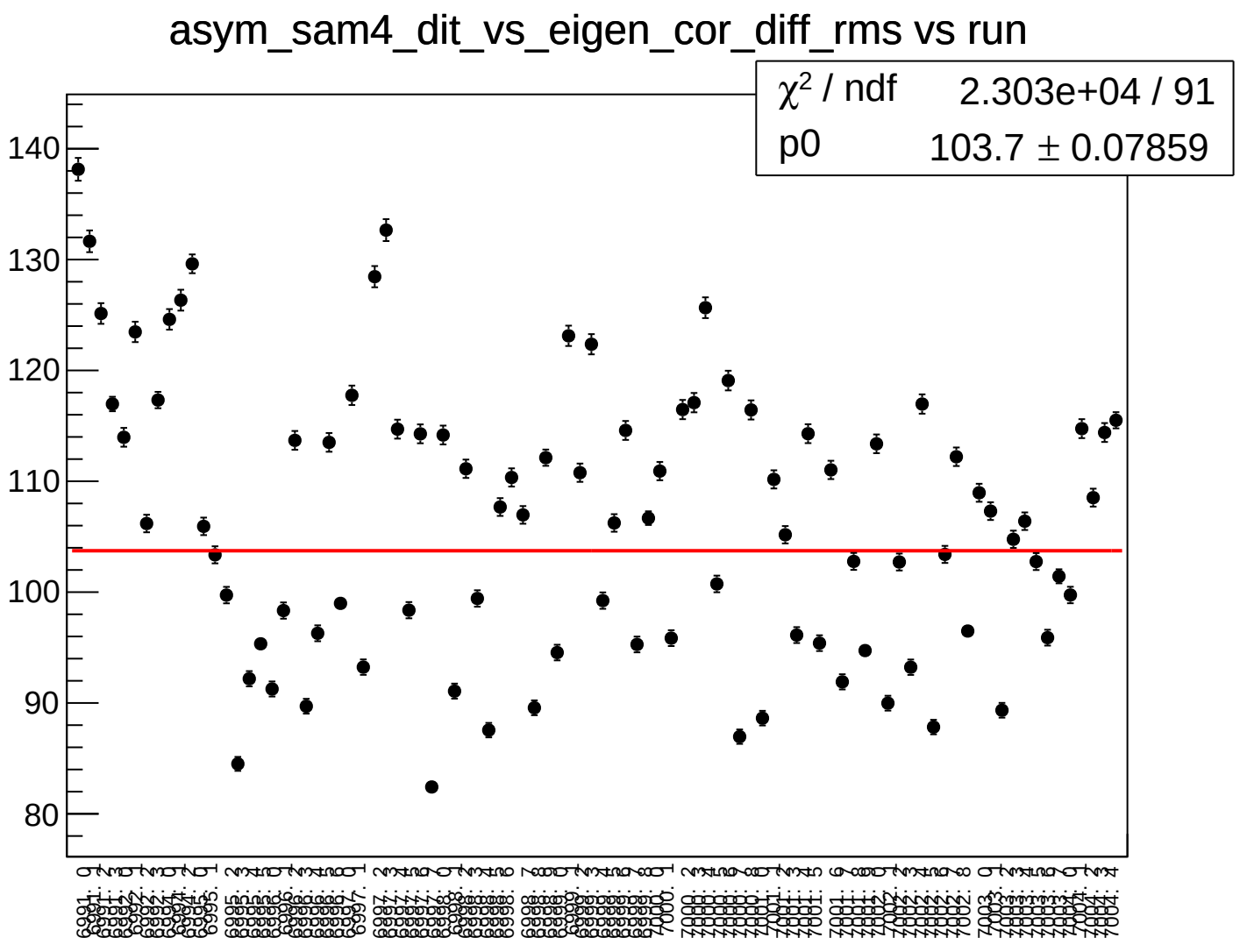

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.274e+06 / 91
p0 3.696e−11 ± 5.272e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

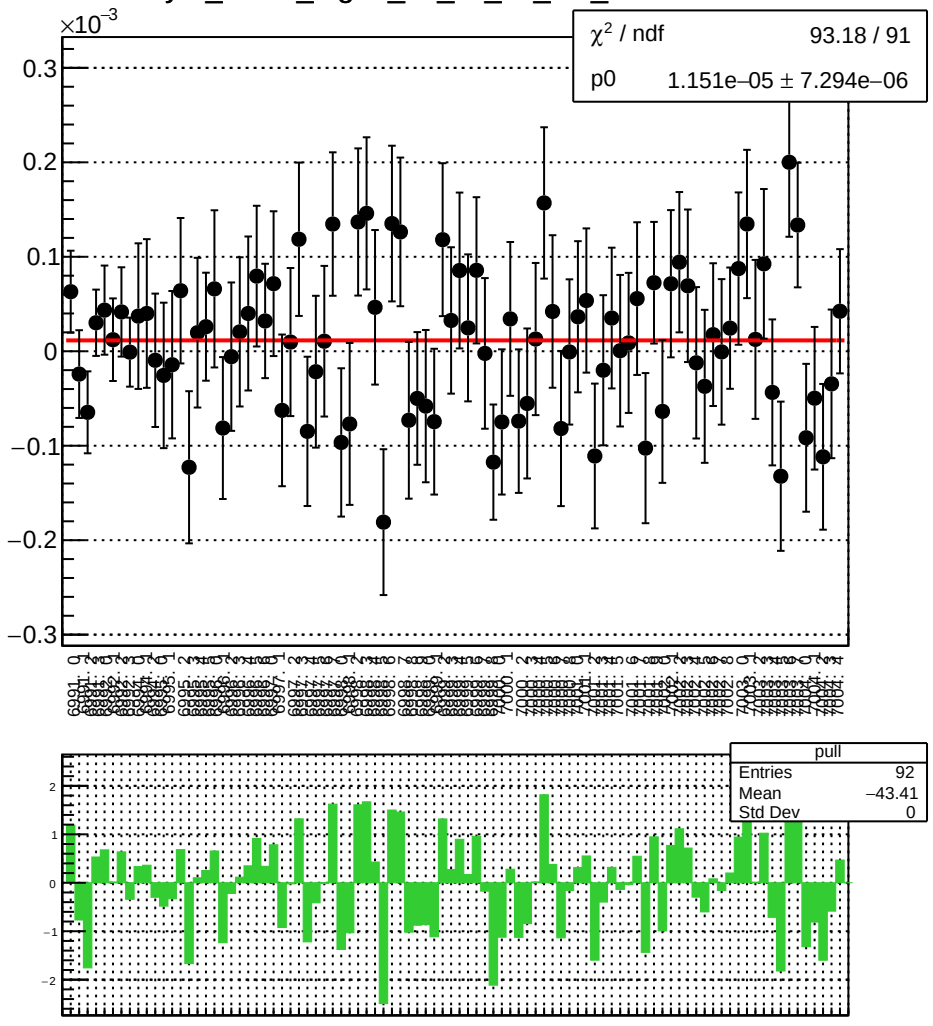

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 93.6 / 91
p0 0.1182 ± 0.1111
pull
Entries 92
Mean 427.6
Std Dev 0
pull1D
Entries 92
Mean 0.01045
Std Dev 1.009

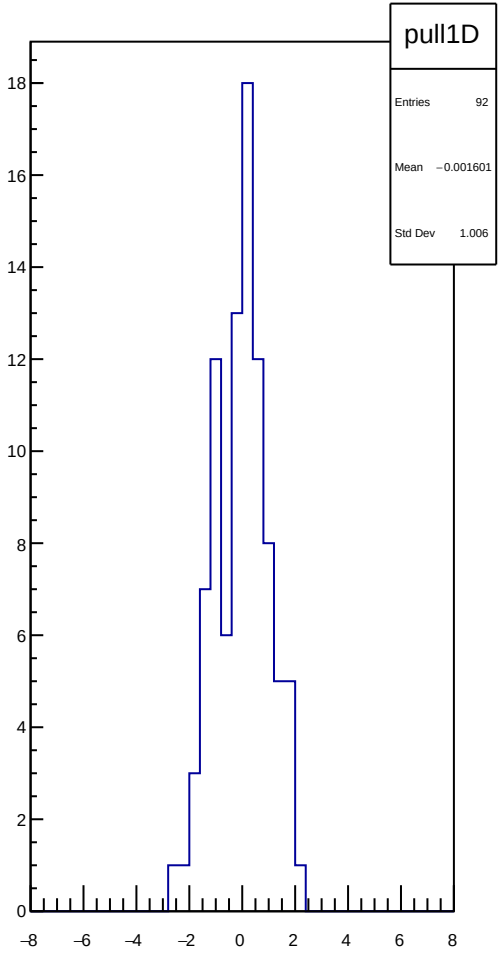

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 2.303e+04 / 91
p0 103.7 ± 0.07859
140
130
120
110
100
90
80

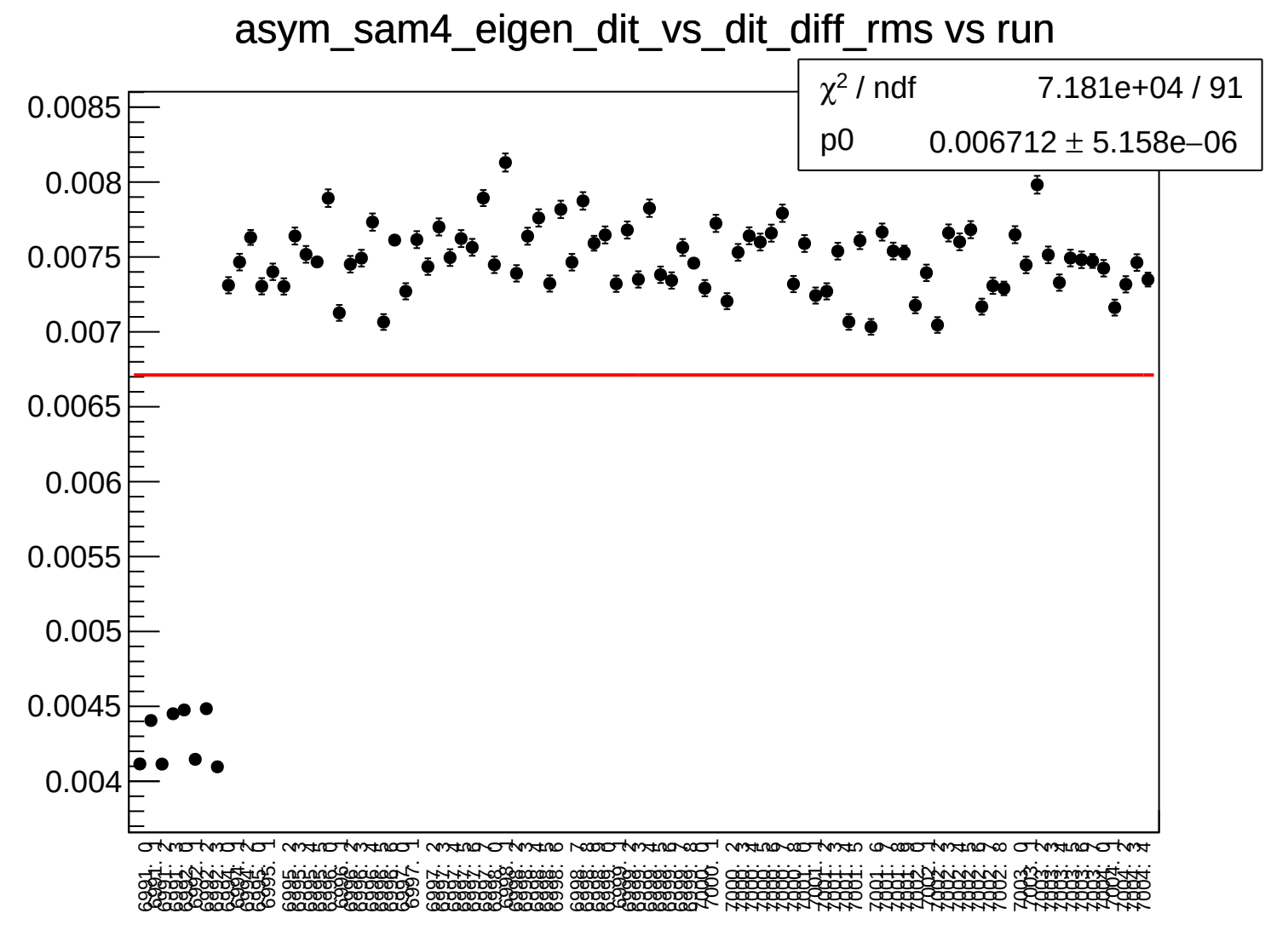

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.6 / 91
p0 0.1182 ± 0.1111
pull
Entries 92
Mean 427.6
Std Dev 0

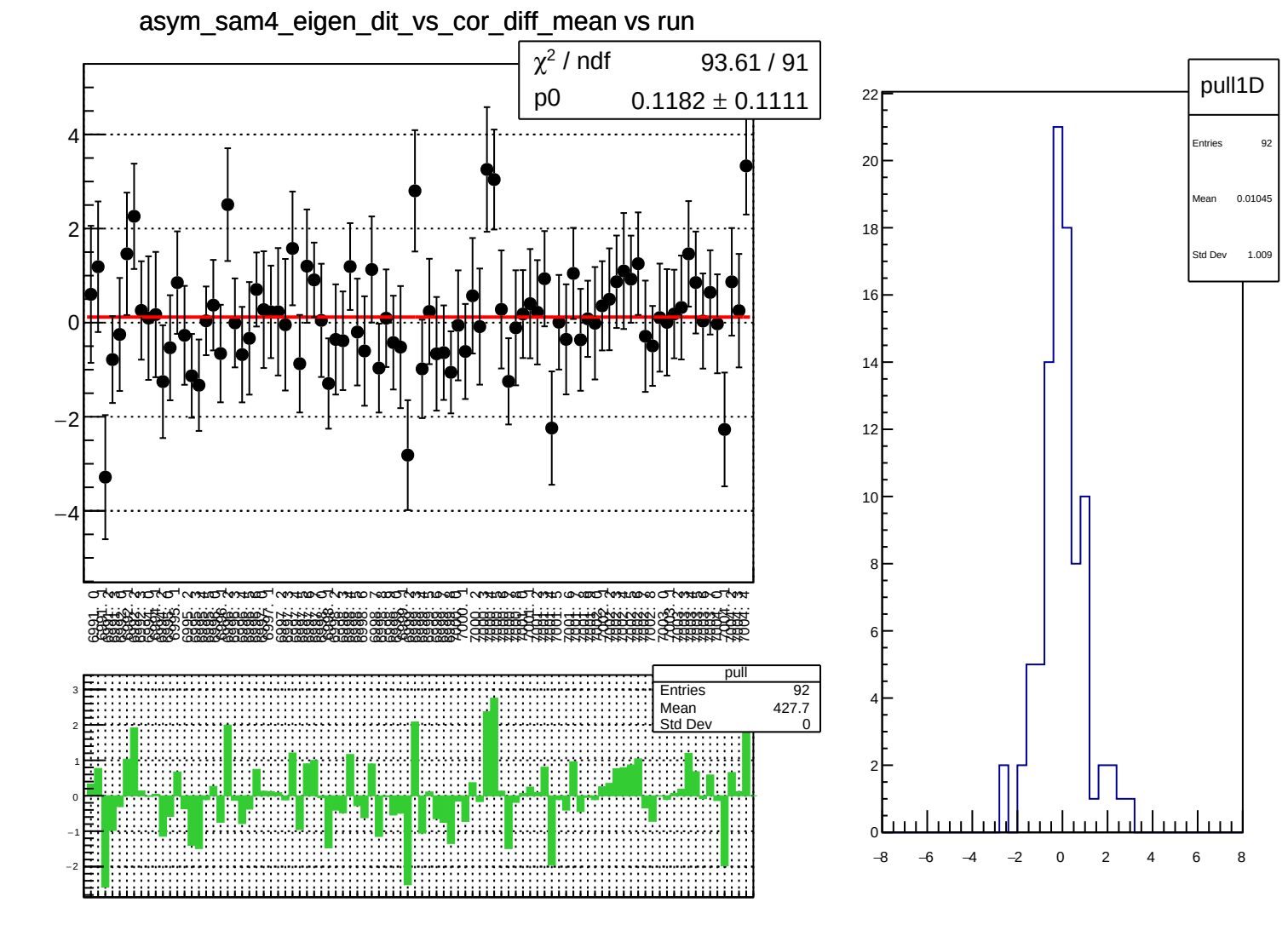

pull1D
Entries 92
Mean 0.01045
Std Dev 1.009

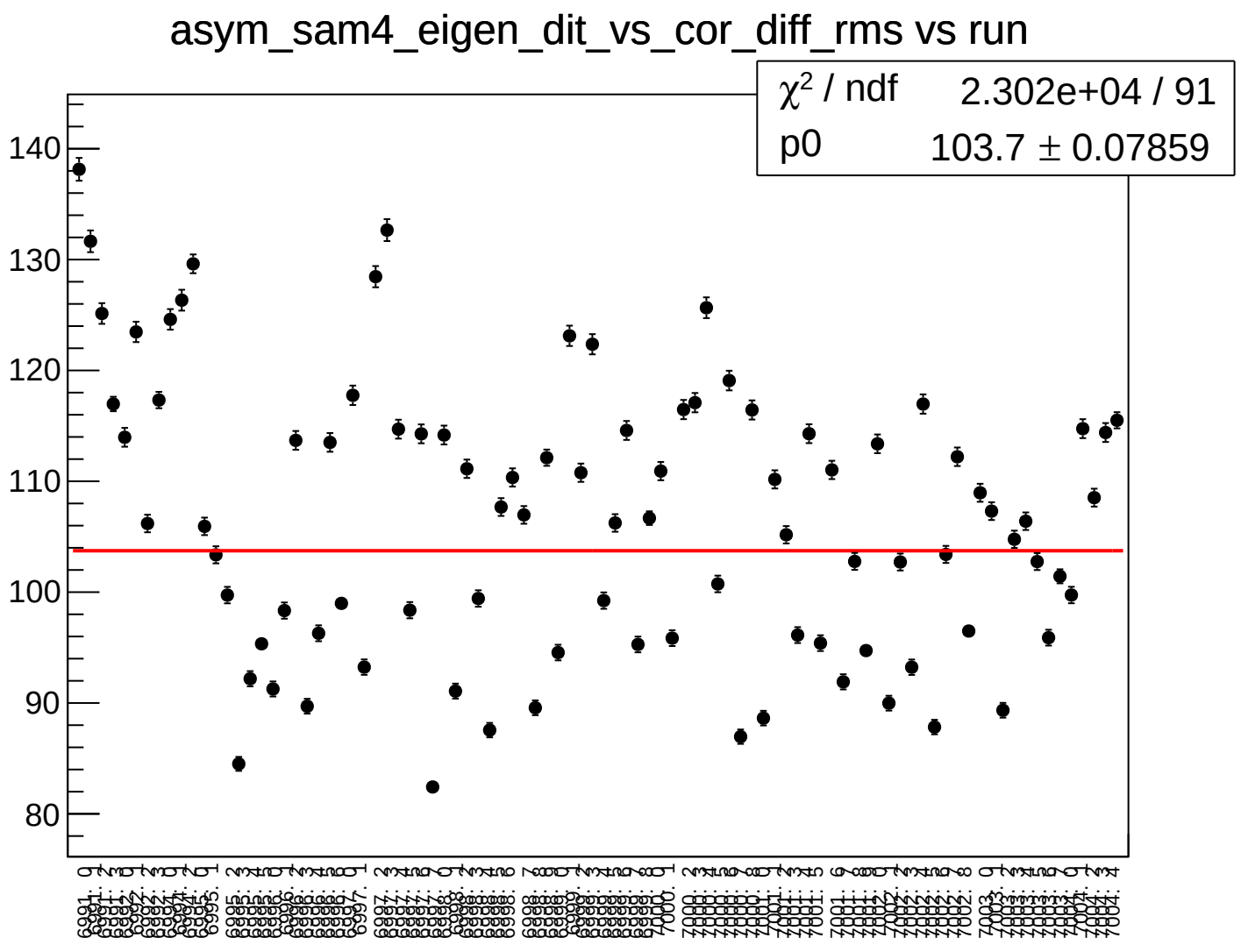

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.303e+04 / 91
p0 103.7 ± 0.07859
140
130
120
110
100
90
80

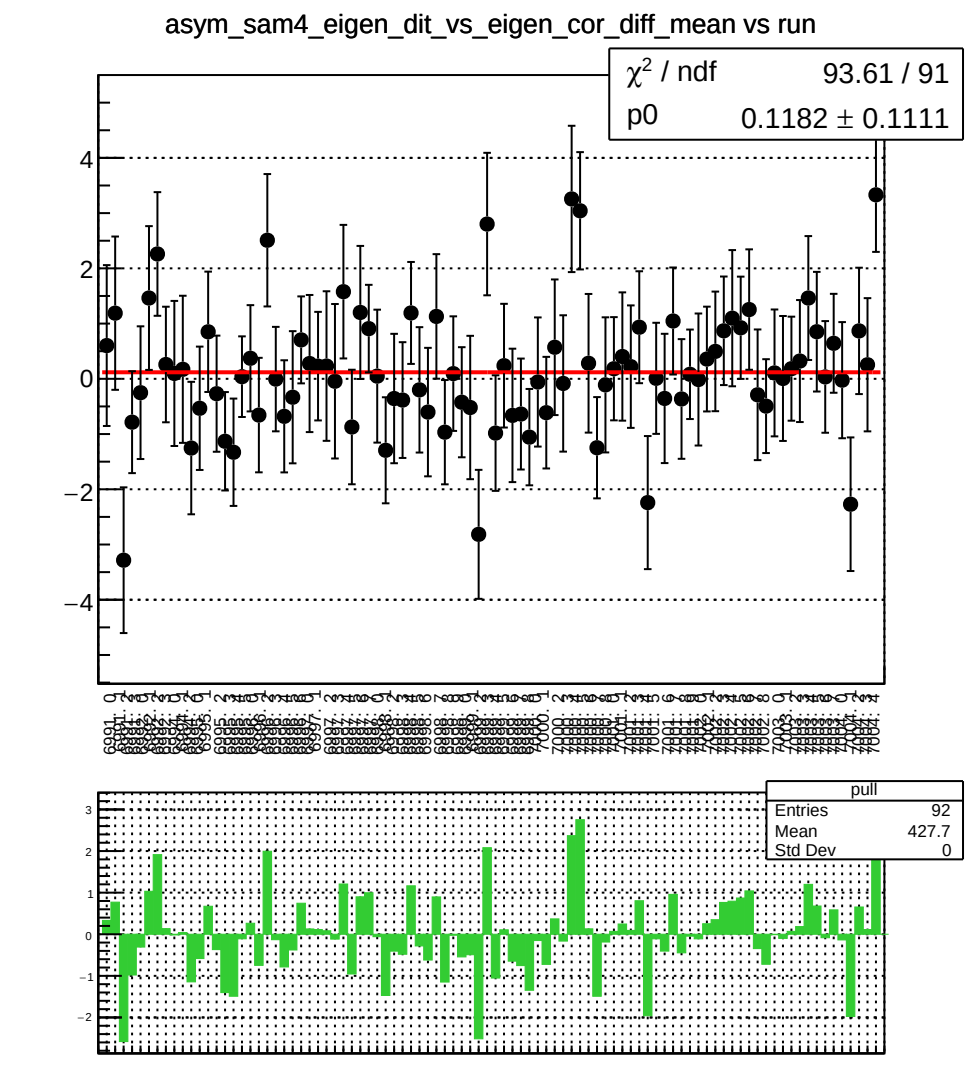

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 93.18 / 91
p0 1.151e−05 ± 7.294e−06
pull
Entries 92
Mean −43.41
Std Dev 0

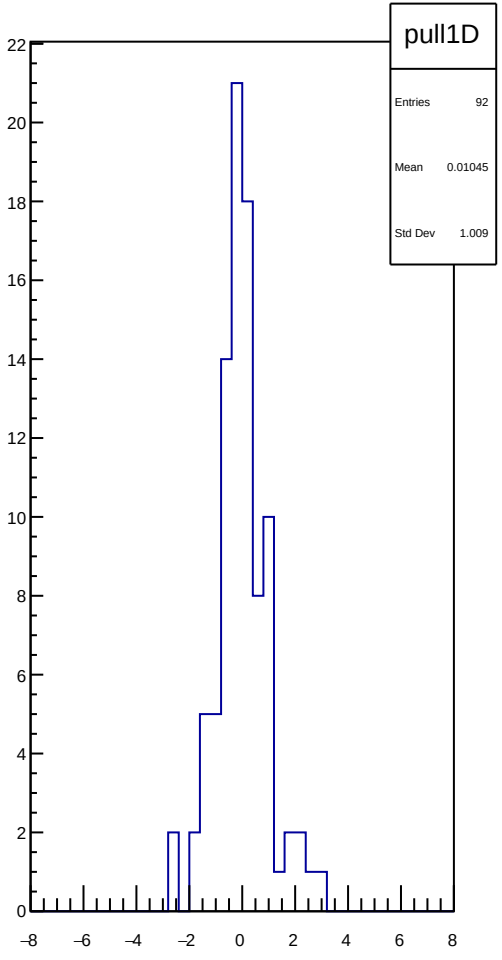

pull1D
Entries 92
Mean −0.001601
Std Dev 1.006

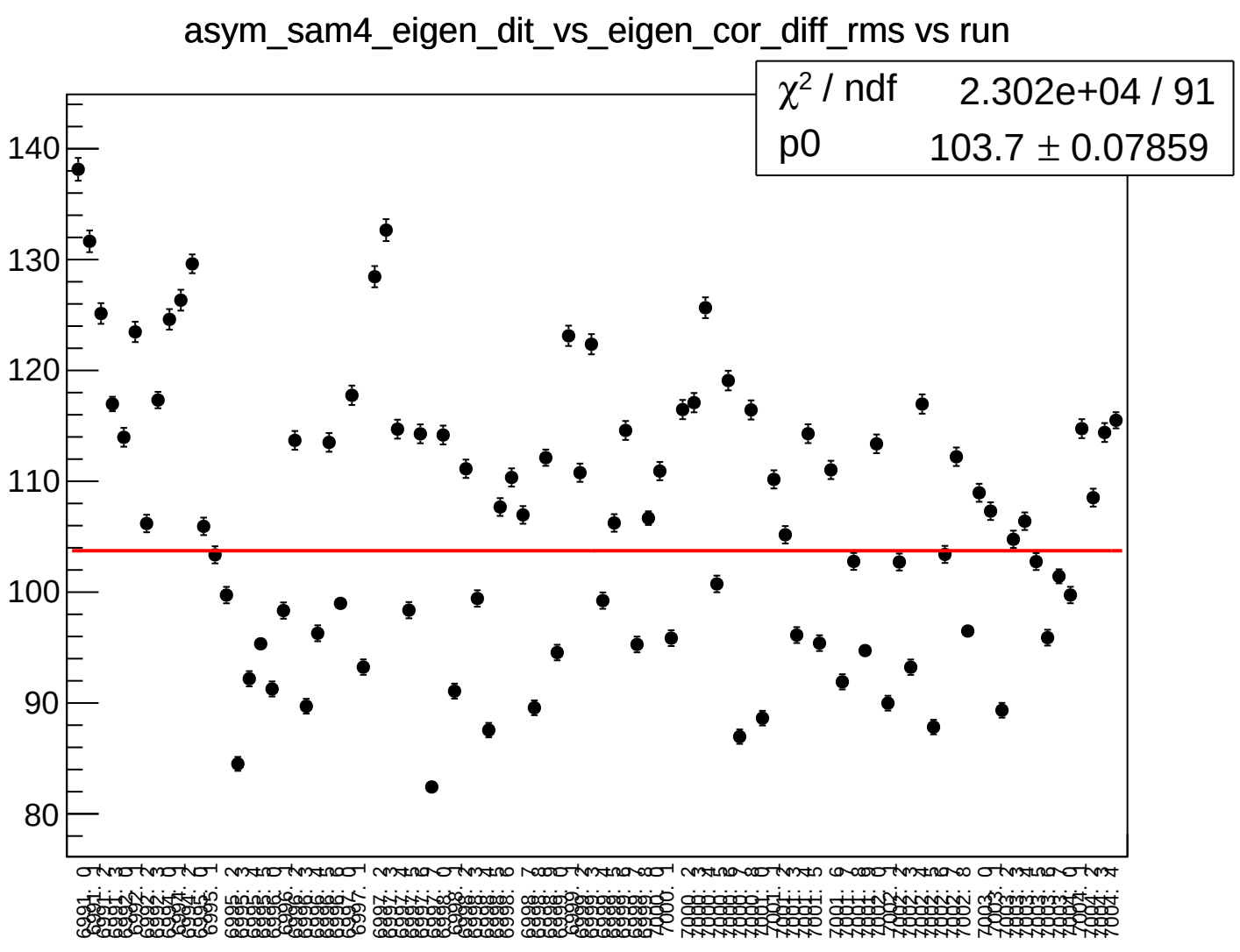

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.181e+04 / 91
p0 0.006712 ± 5.158e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

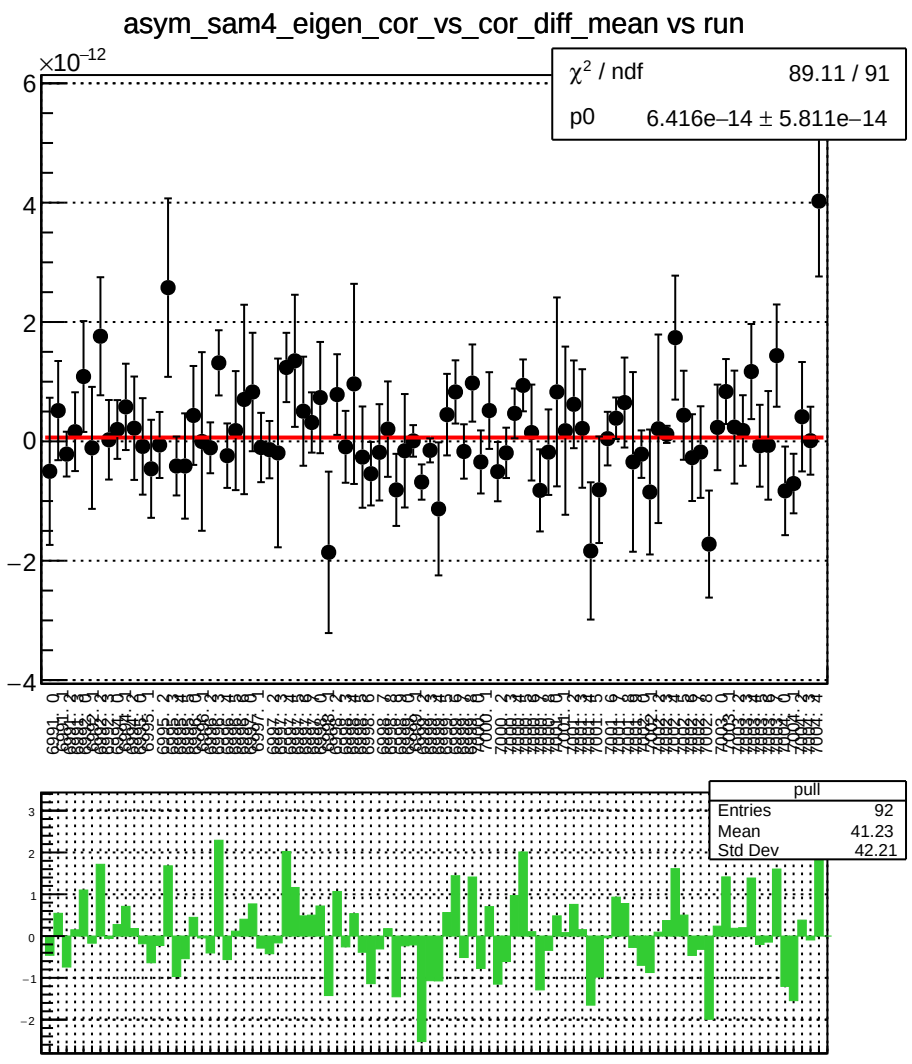

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.61 / 91
p0 0.1182 ± 0.1111
pull
Entries 92
Mean 427.7
Std Dev 0
pull1D
Entries 92
Mean 0.01045
Std Dev 1.009

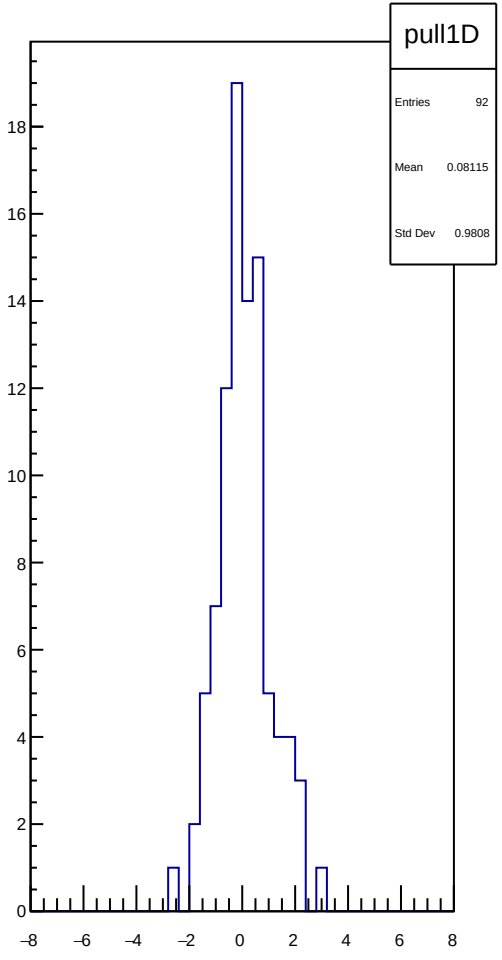

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.302e+04 / 91
p0 103.7 ± 0.07859
140
130
120
110
100
90
80

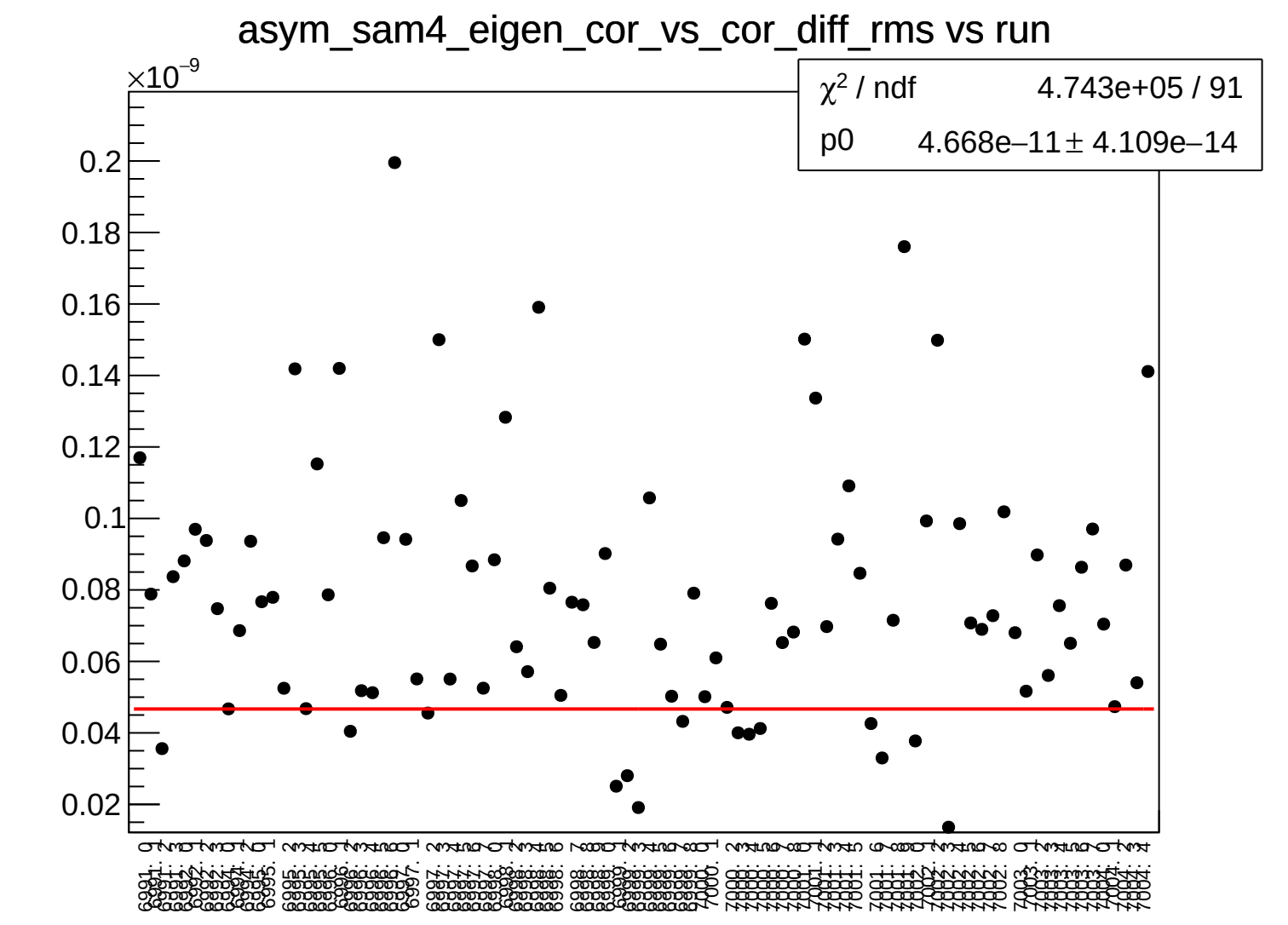

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.61 / 91
p0 0.1182 ± 0.1111
pull
Entries 92
Mean 427.7
Std Dev 0

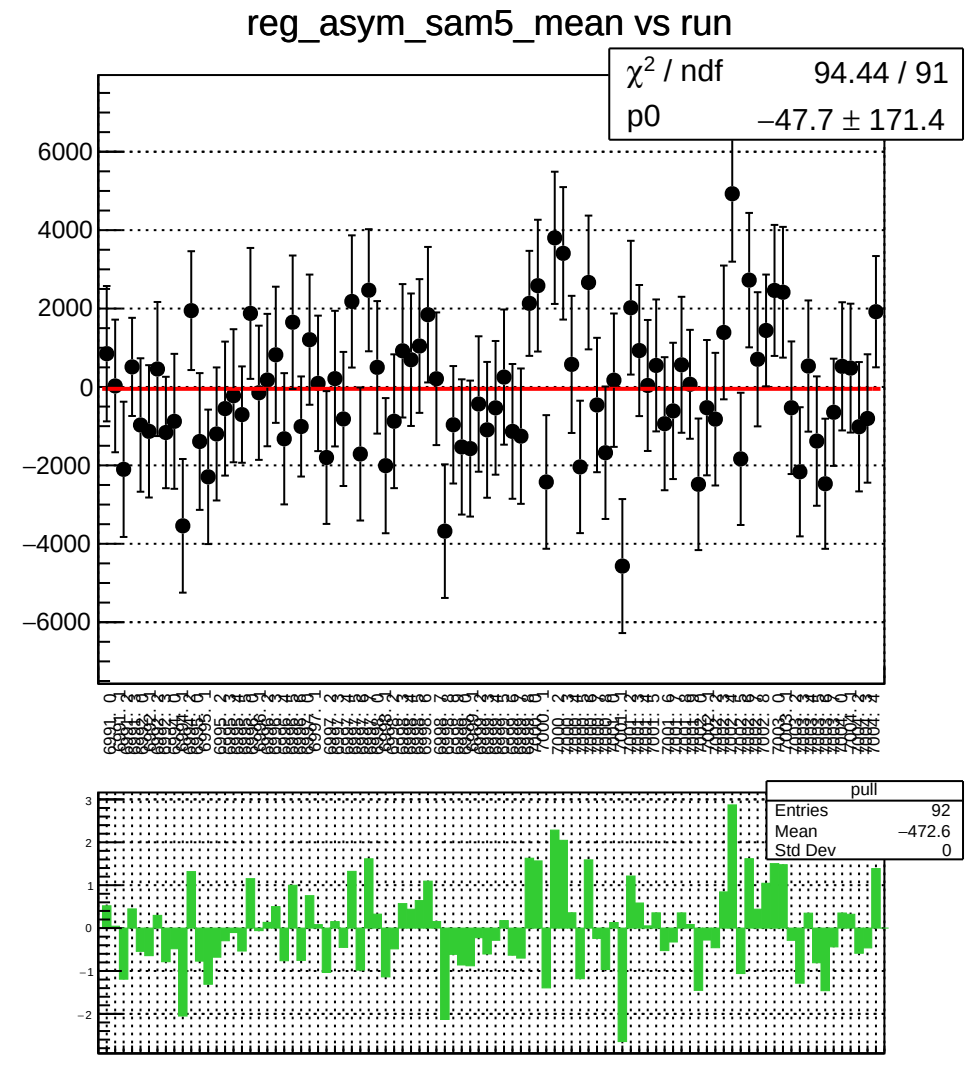

pull1D
Entries 92
Mean 0.01045
Std Dev 1.009

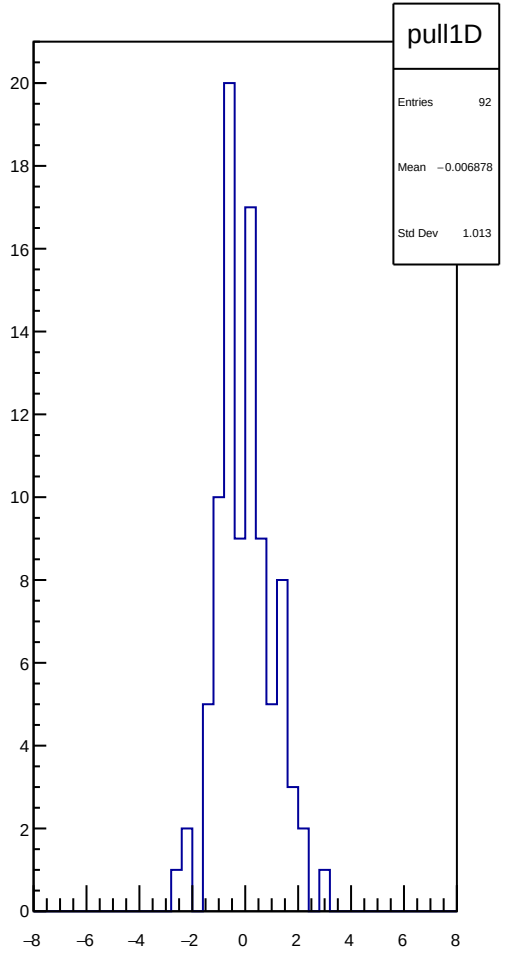

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.302e+04 / 91
p0 103.7 ± 0.07859
140
130
120
110
100
90
80

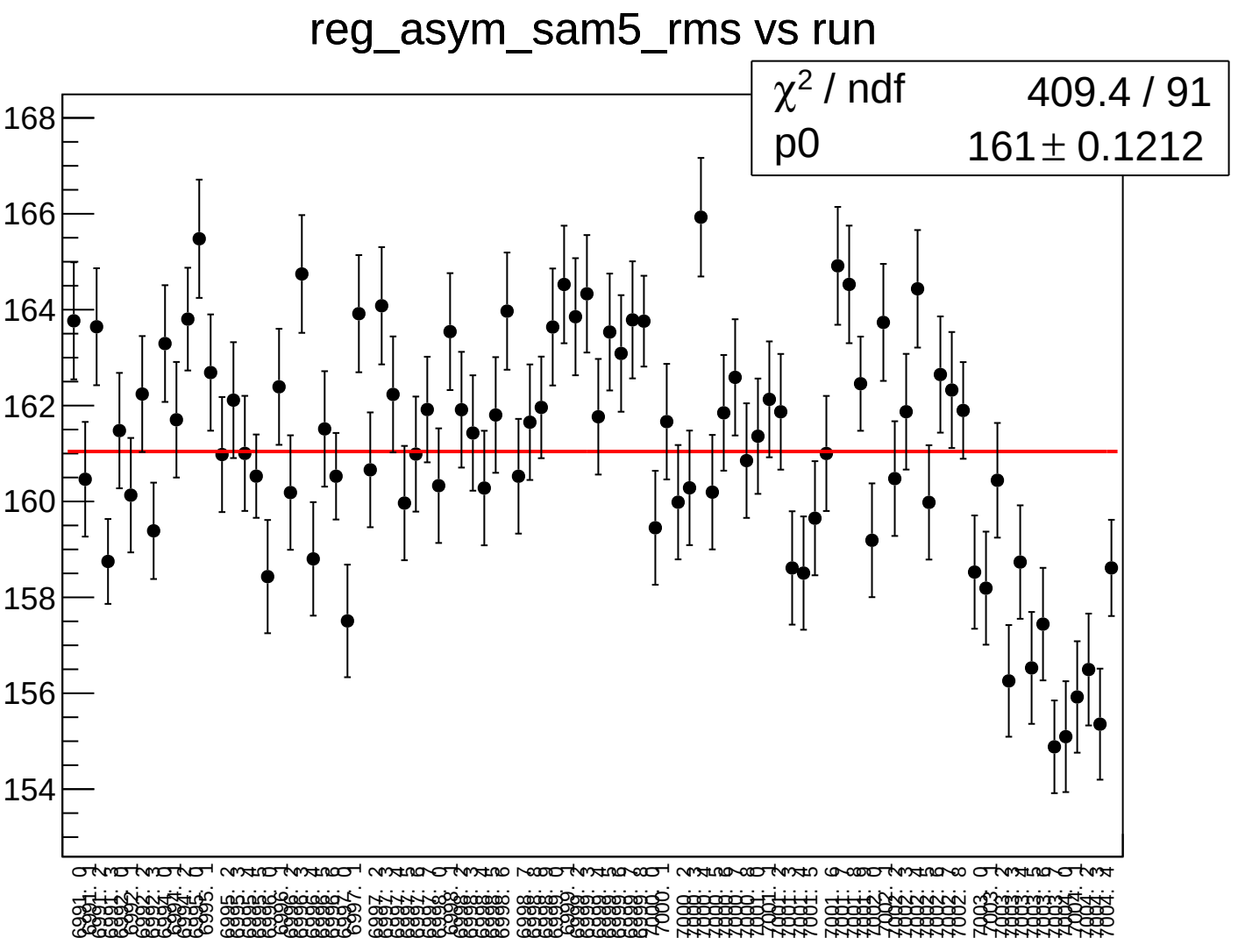

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.11 / 91
p0 6.416e−14 ± 5.811e−14
pull
Entries 92
Mean 41.23
Std Dev 42.21

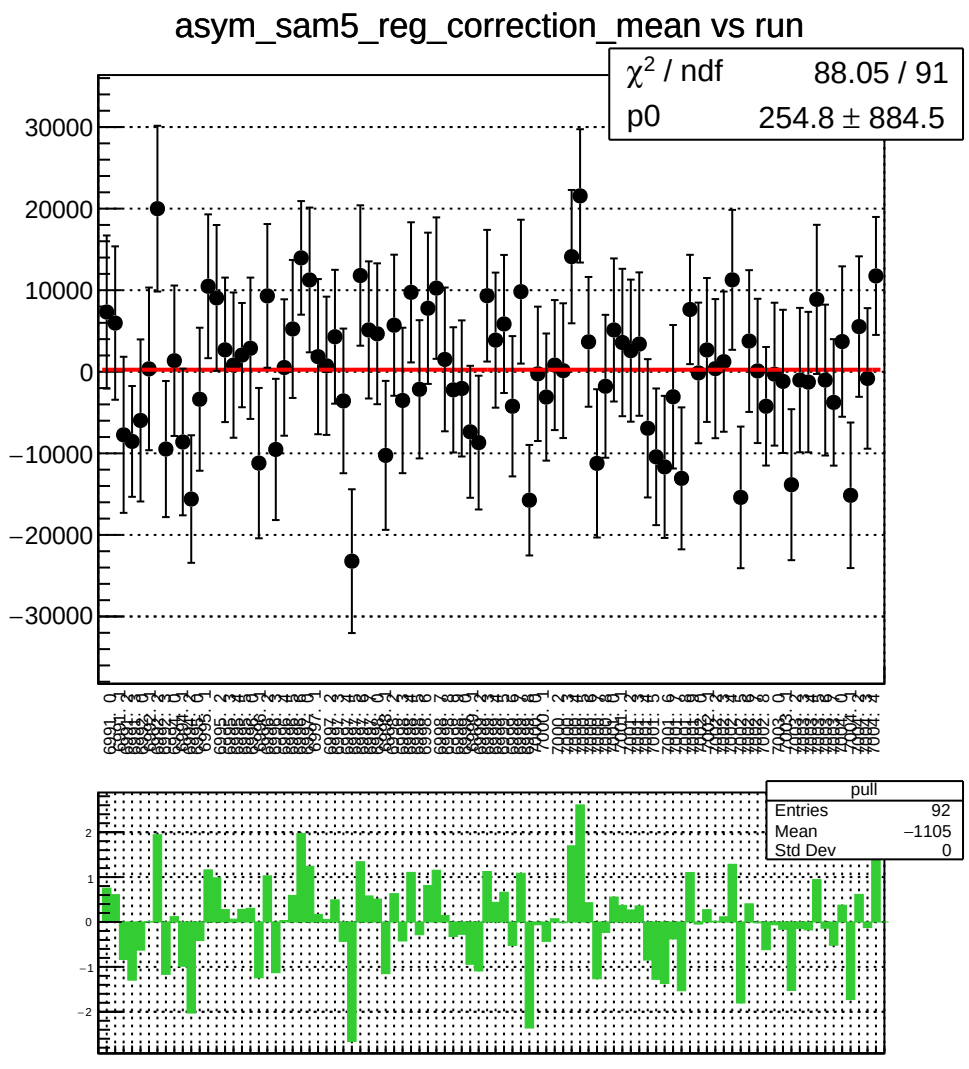

pull1D
Entries 92
Mean 0.08115
Std Dev 0.9808

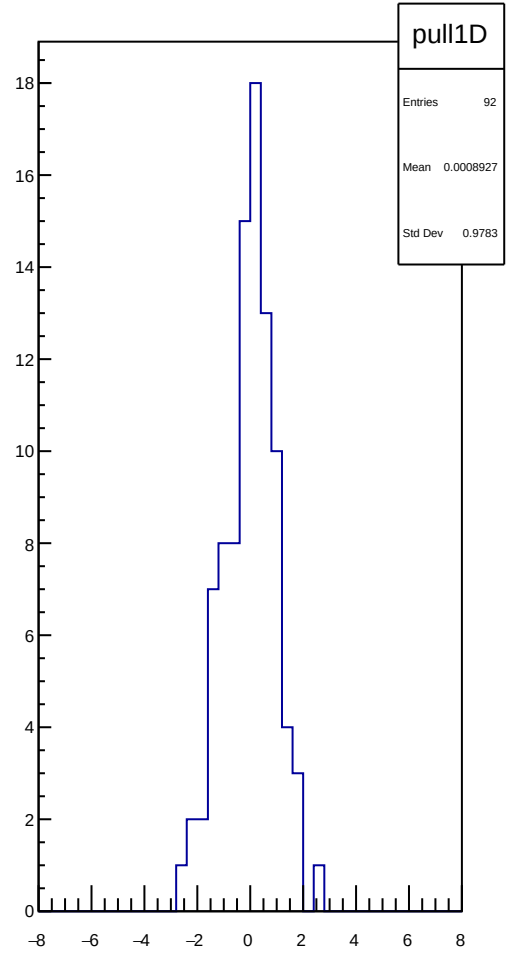

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.743e+05 / 91
p0 4.668e−11 ± 4.109e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

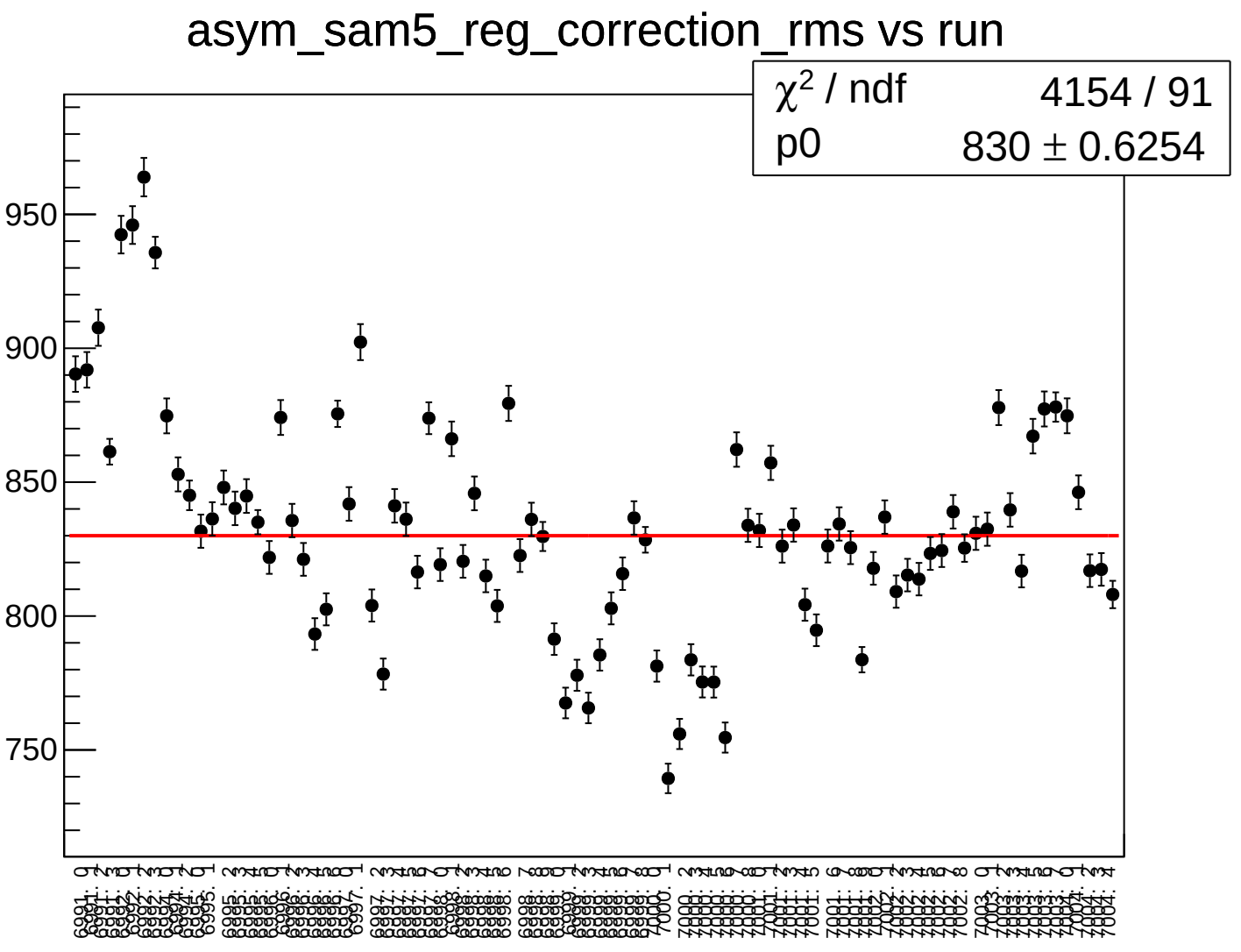

reg_asym_sam5_mean vs run
χ² / ndf 94.44 / 91
p0 −47.7 ± 171.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −472.6
Std Dev 0
3
2
1
0
−1
−2

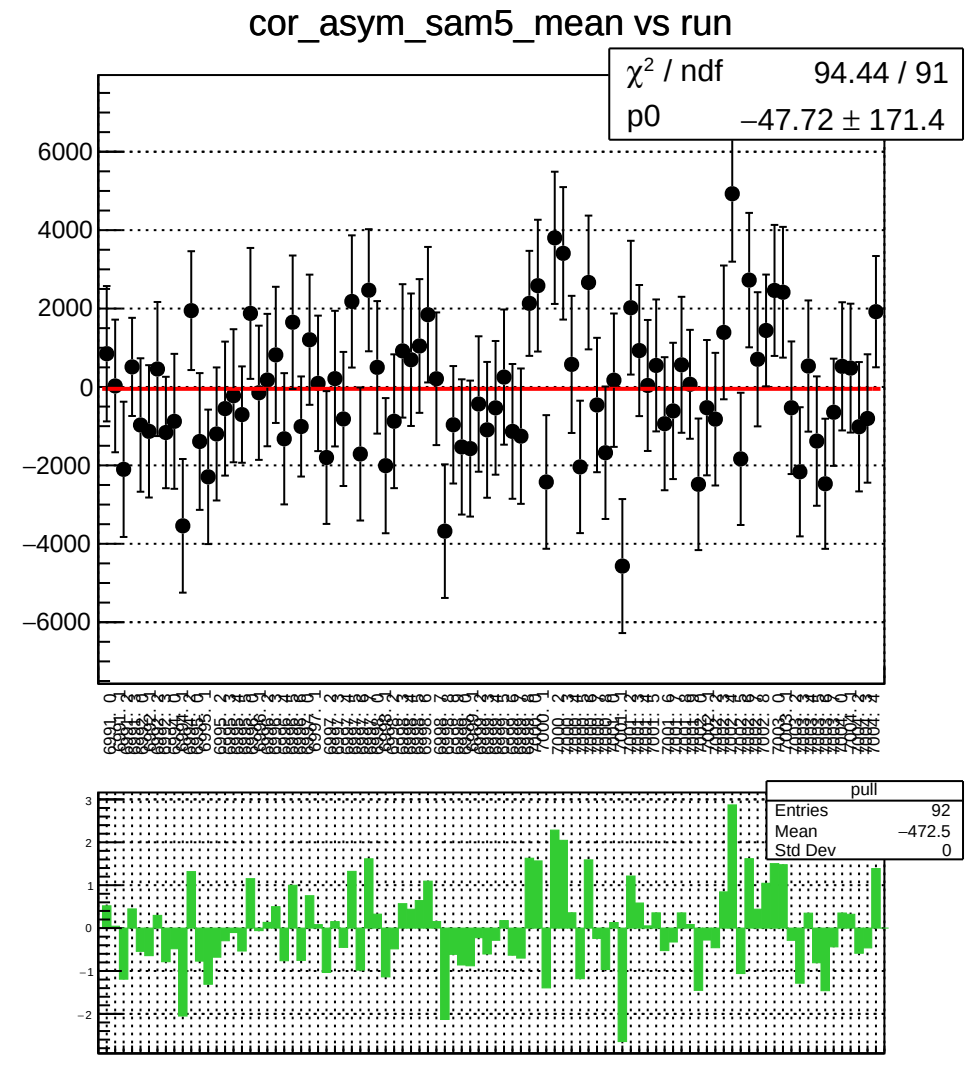

pull1D
Entries 92
Mean −0.006878
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

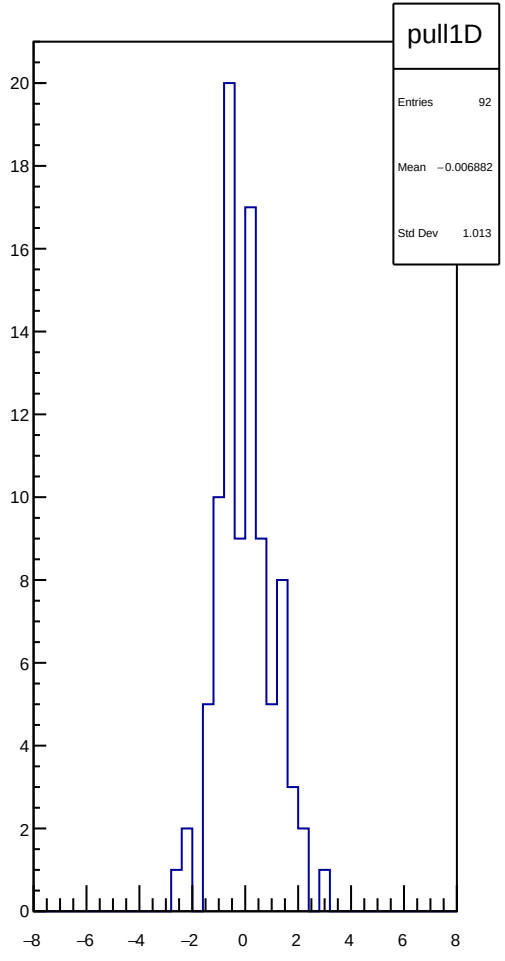

reg_asym_sam5_rms vs run
χ² / ndf 409.4 / 91
p0 161 ± 0.1212
168
166
164
162
160
158
156
154

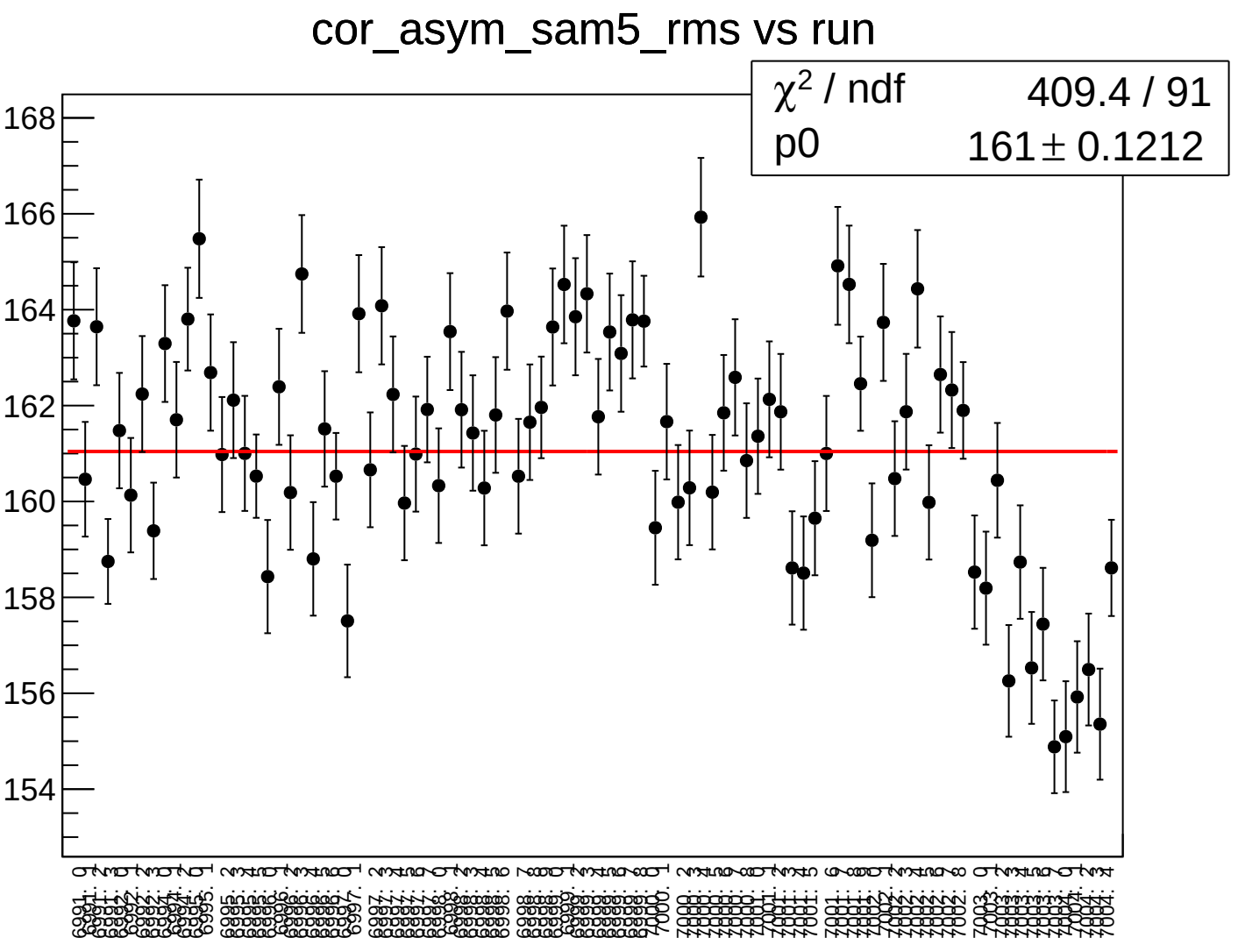

asym_sam5_reg_correction_mean vs run
χ² / ndf 88.05 / 91
p0 254.8 ± 884.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1105
Std Dev 0
2
1
0
−1
−2

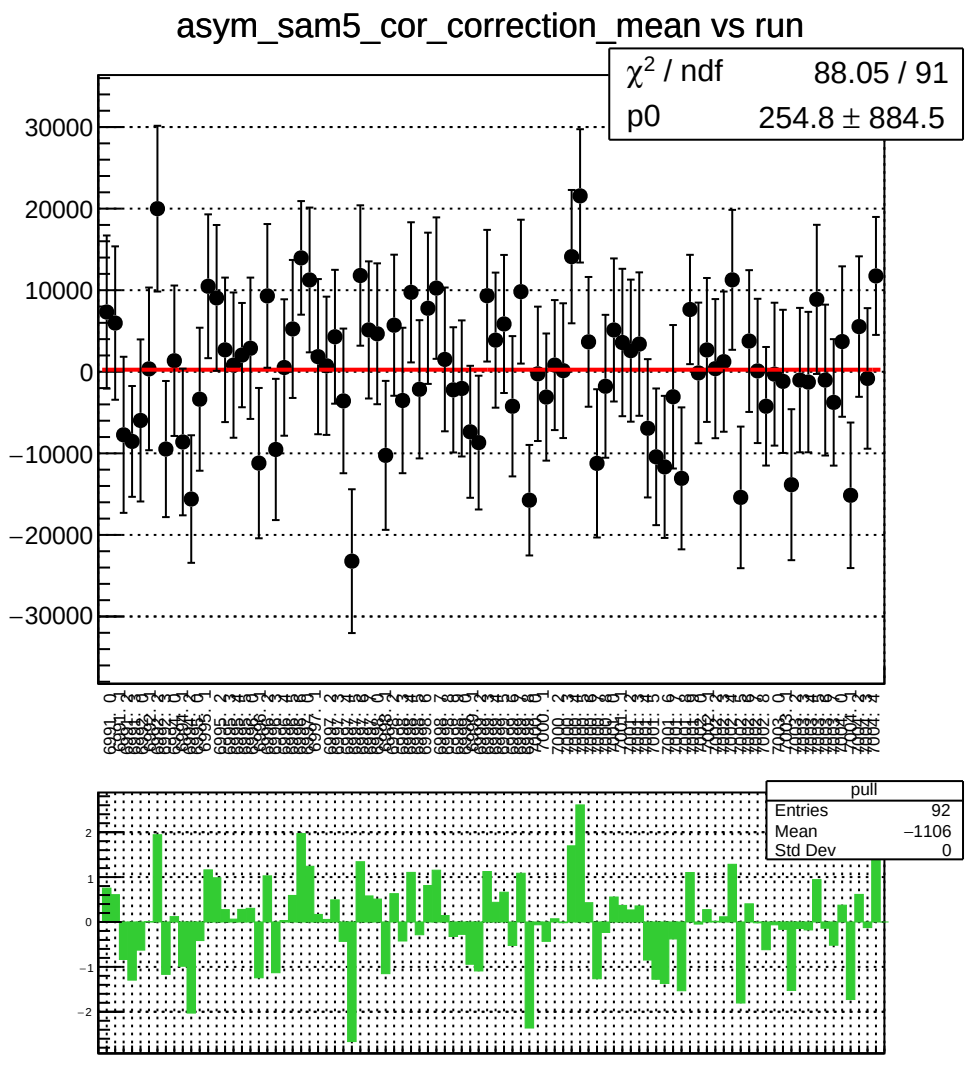

pull1D
Entries 92
Mean 0.0008927
Std Dev 0.9783
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

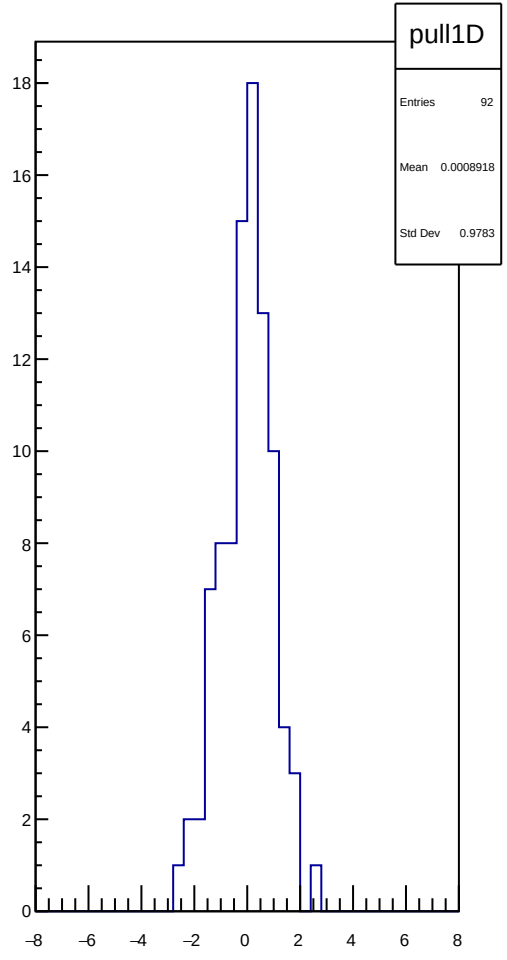

asym_sam5_reg_correction_rms vs run
χ² / ndf 4154 / 91
p0 830 ± 0.6254
950
900
850
800
750

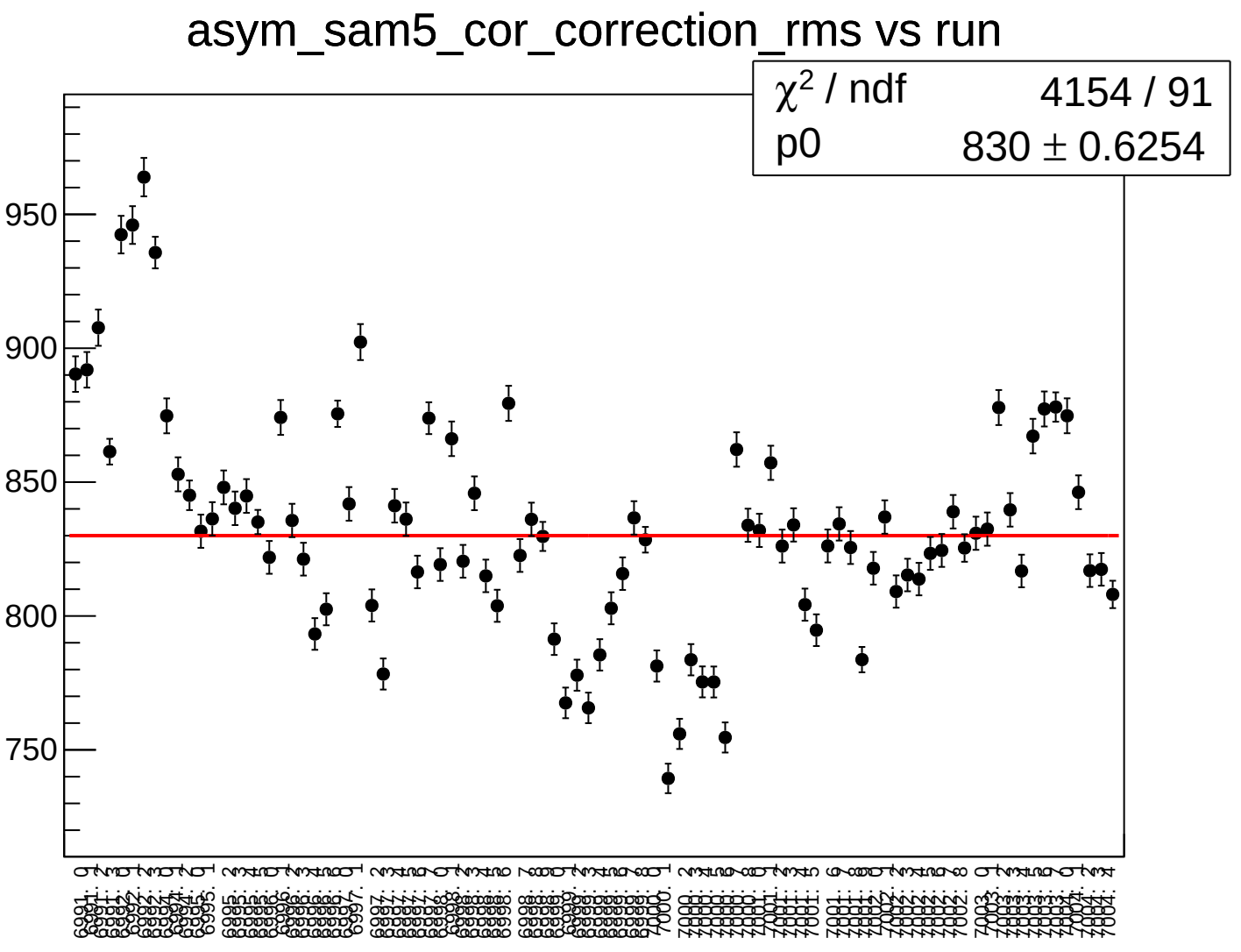

cor_asym_sam5_mean vs run
χ² / ndf 94.44 / 91
p0 −47.72 ± 171.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −472.5
Std Dev 0
3
2
1
0
−1
−2

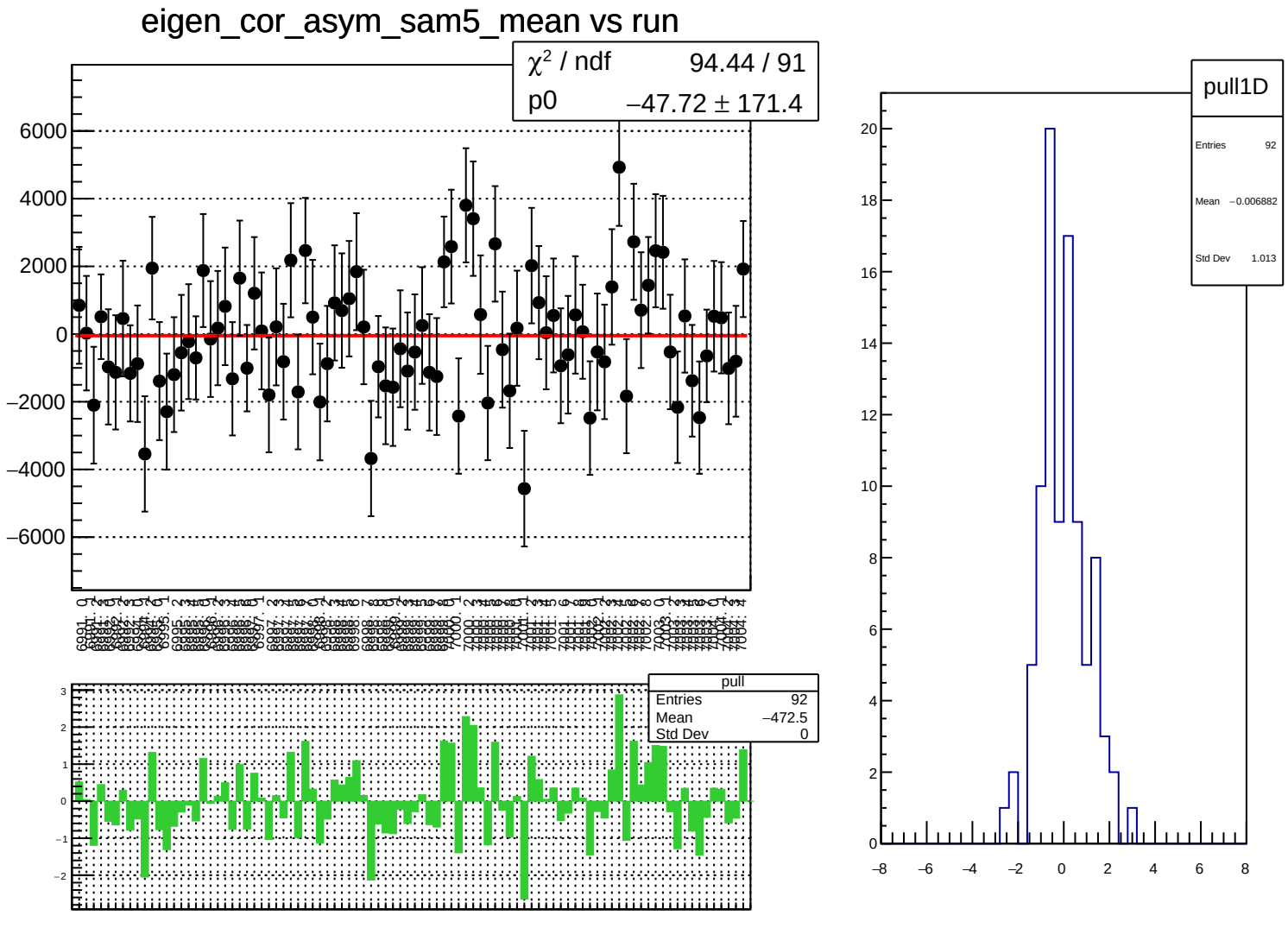

pull1D
Entries 92
Mean −0.006882
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

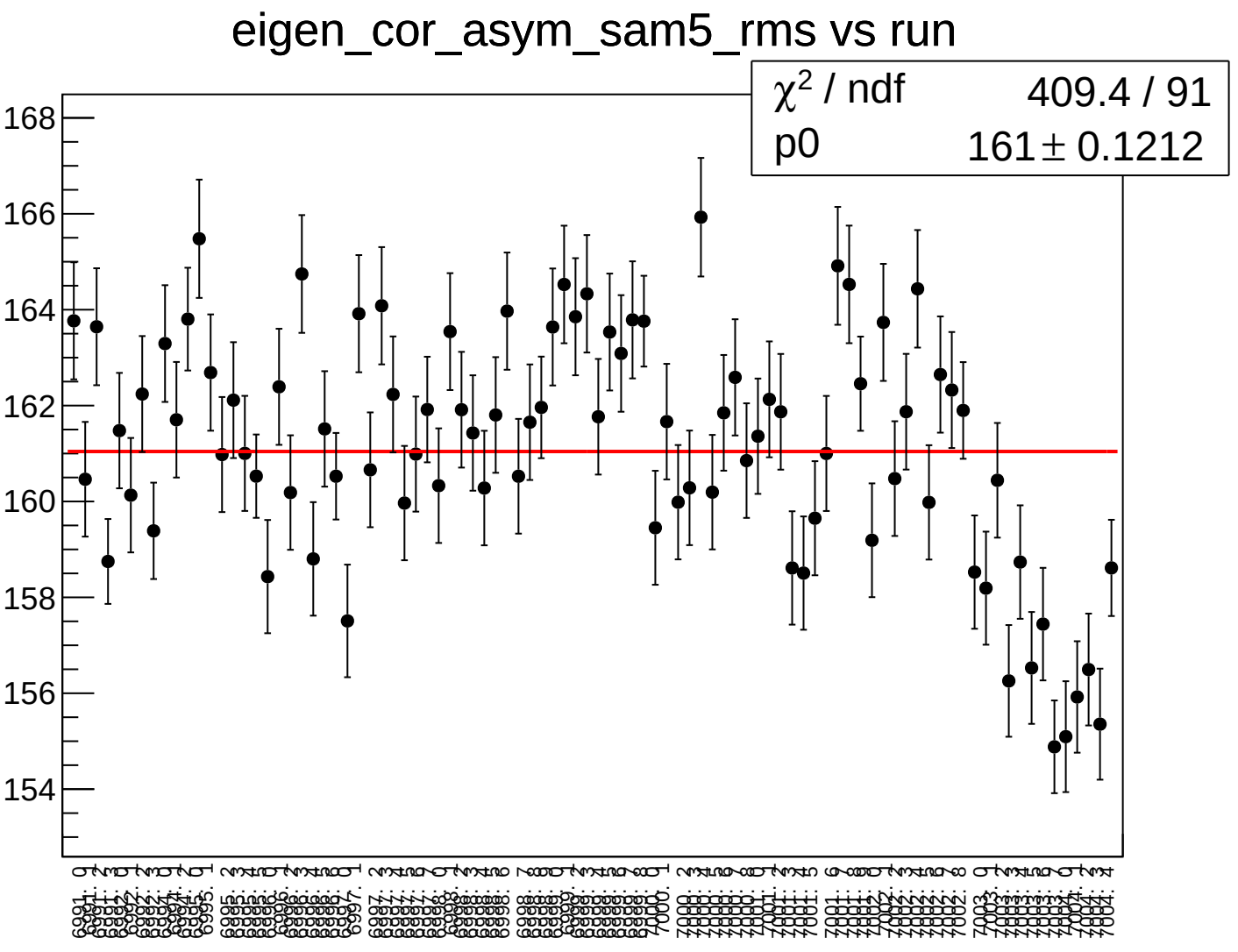

cor_asym_sam5_rms vs run
χ² / ndf 409.4 / 91
p0 161 ± 0.1212
168
166
164
162
160
158
156
154

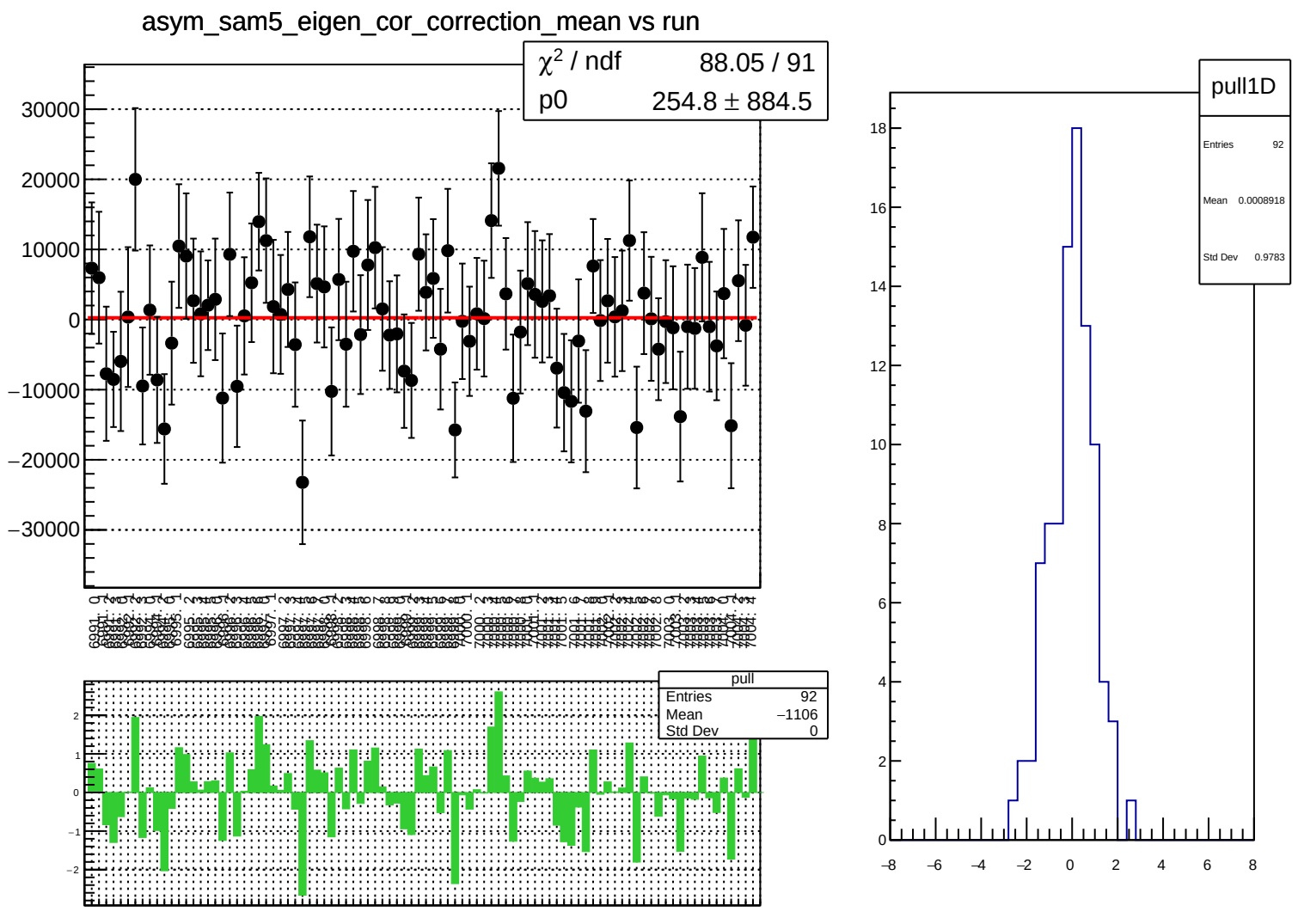

asym_sam5_cor_correction_mean vs run
χ² / ndf 88.05 / 91
p0 254.8 ± 884.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1106
Std Dev 0
2
1
0
−1
−2

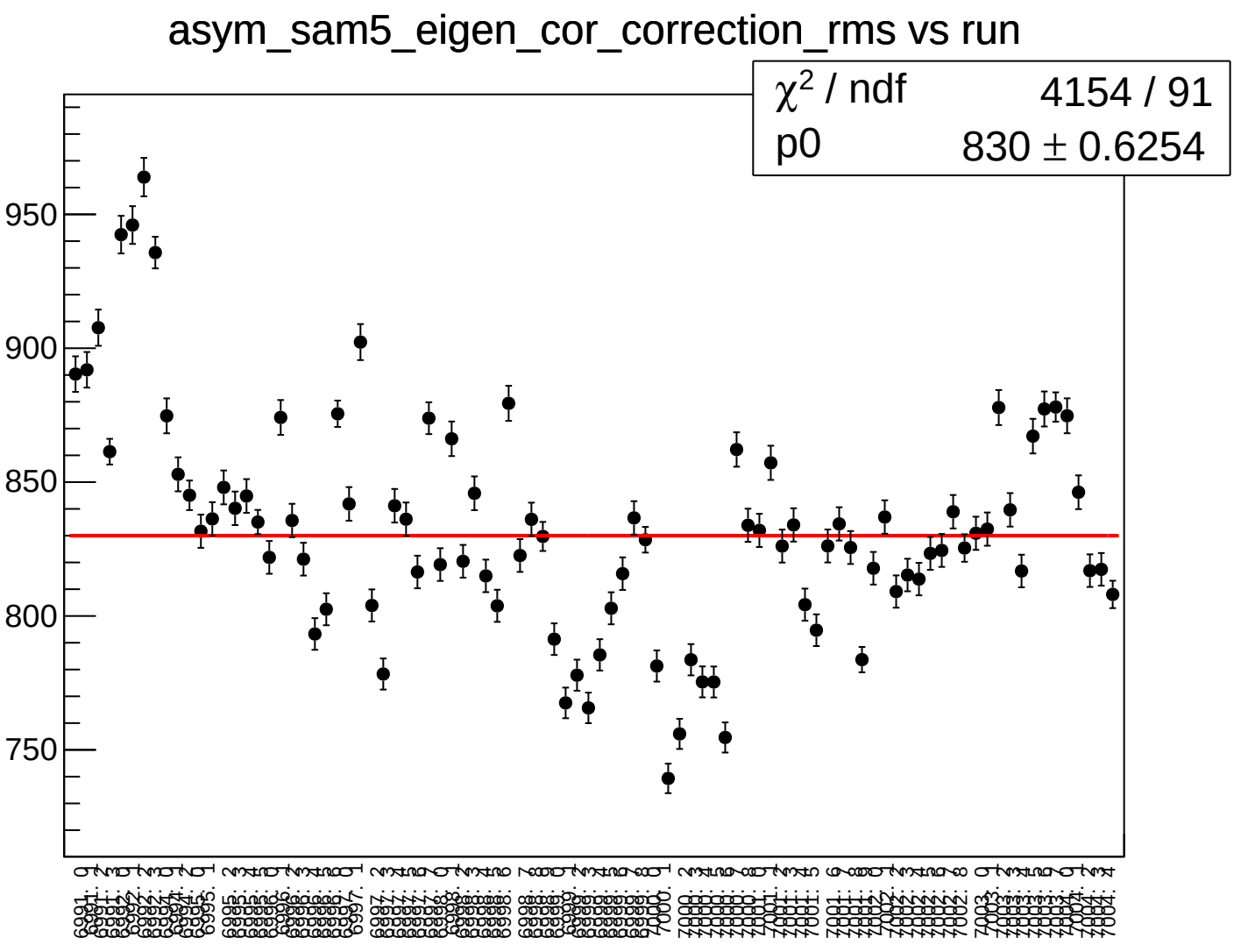

pull1D
Entries 92
Mean 0.0008918
Std Dev 0.9783
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

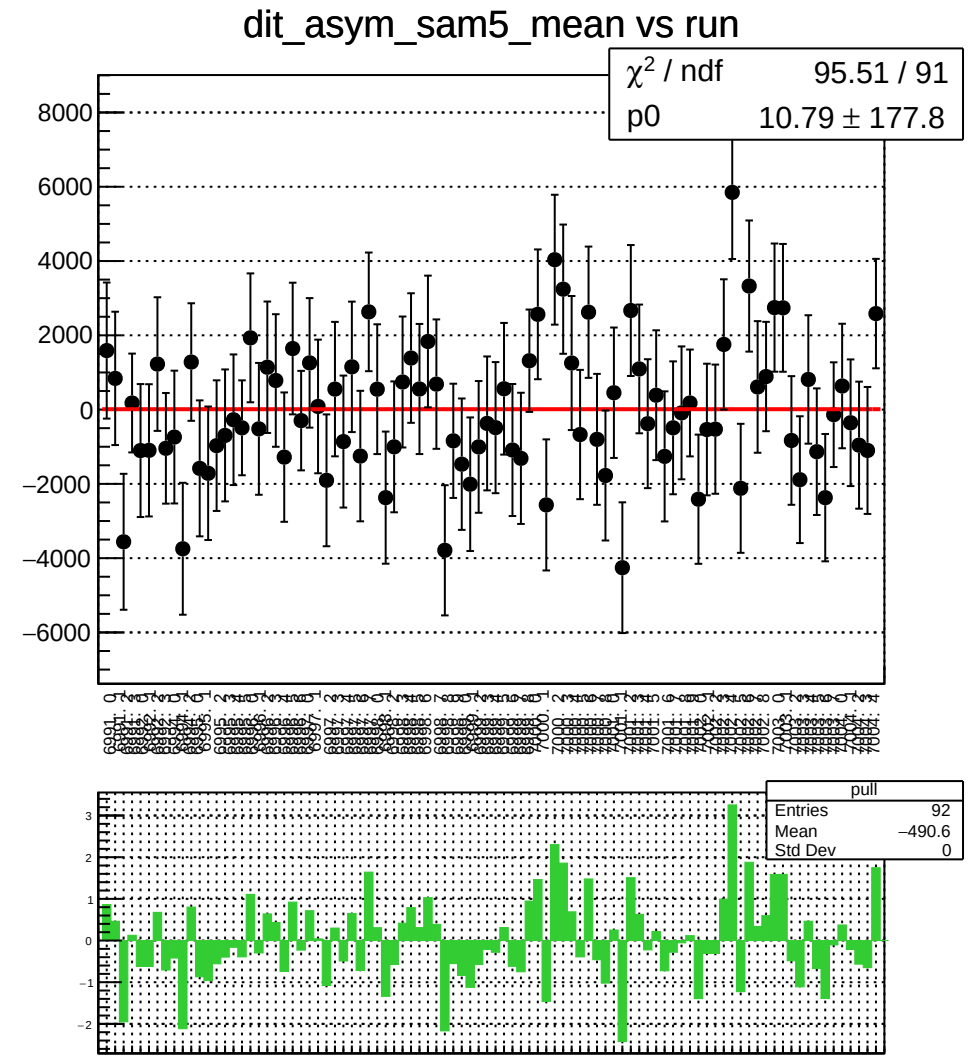

asym_sam5_cor_correction_rms vs run
χ² / ndf 4154 / 91
p0 830 ± 0.6254
950
900
850
800
750

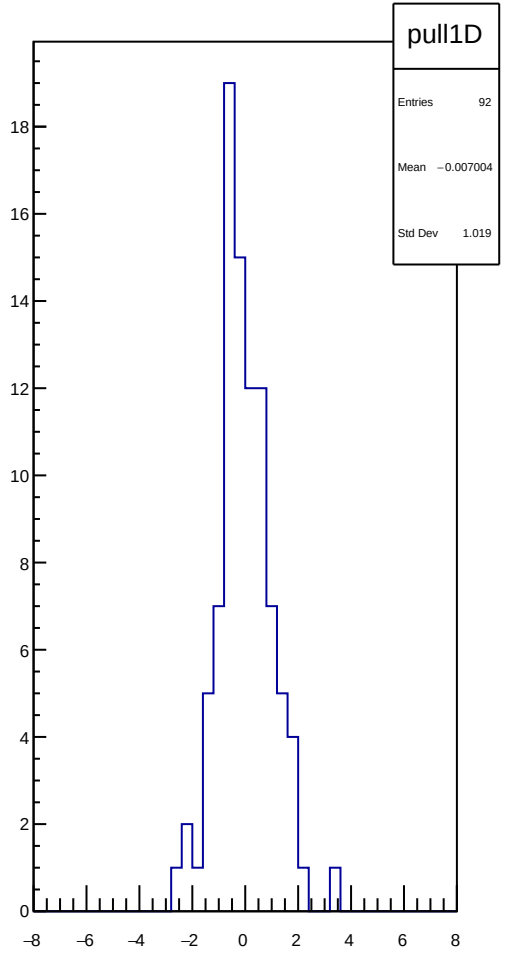

eigen_cor_asym_sam5_mean vs run
χ² / ndf 94.44 / 91
p0 −47.72 ± 171.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −472.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006882
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

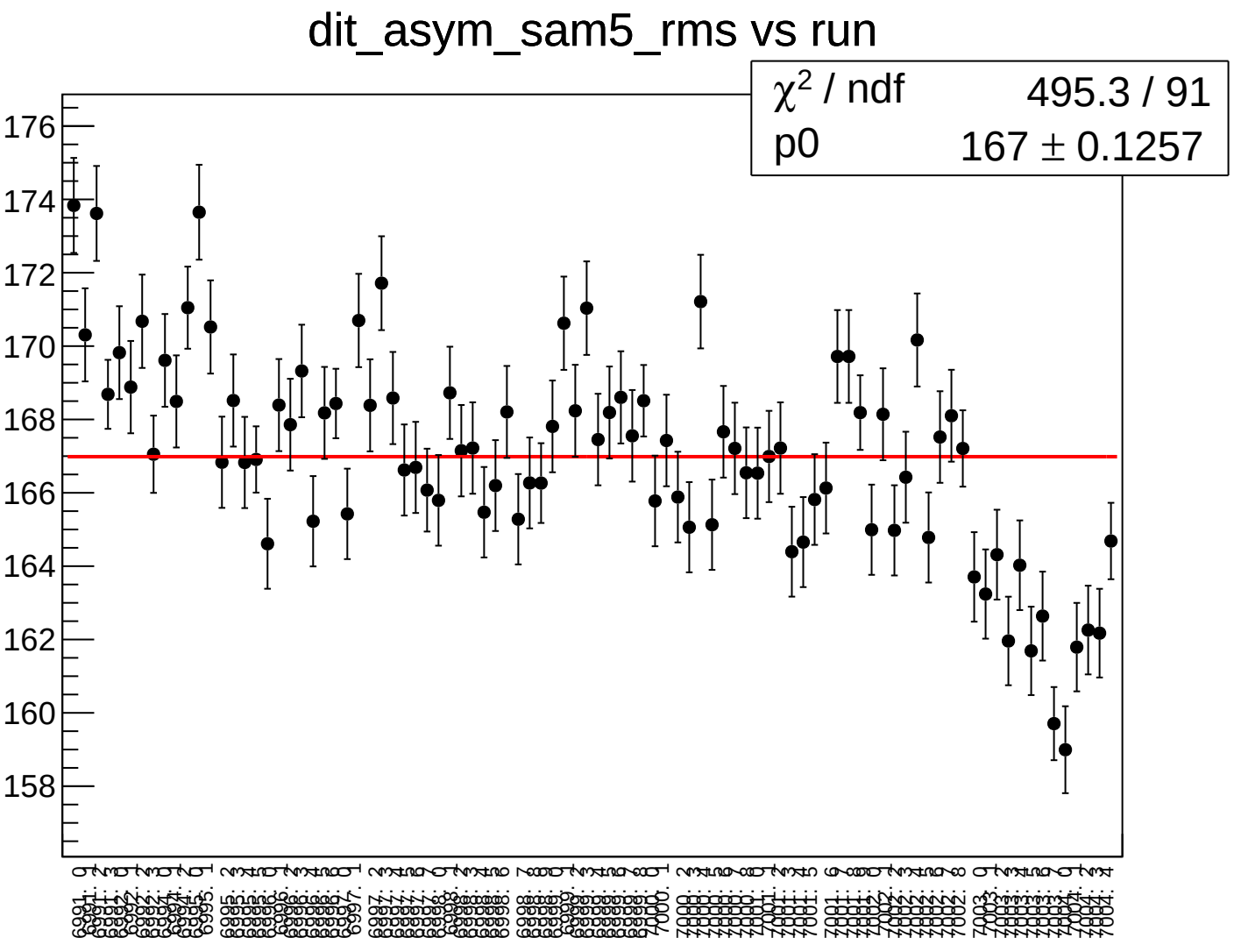

eigen_cor_asym_sam5_rms vs run
χ² / ndf 409.4 / 91
p0 161 ± 0.1212
168
166
164
162
160
158
156
154

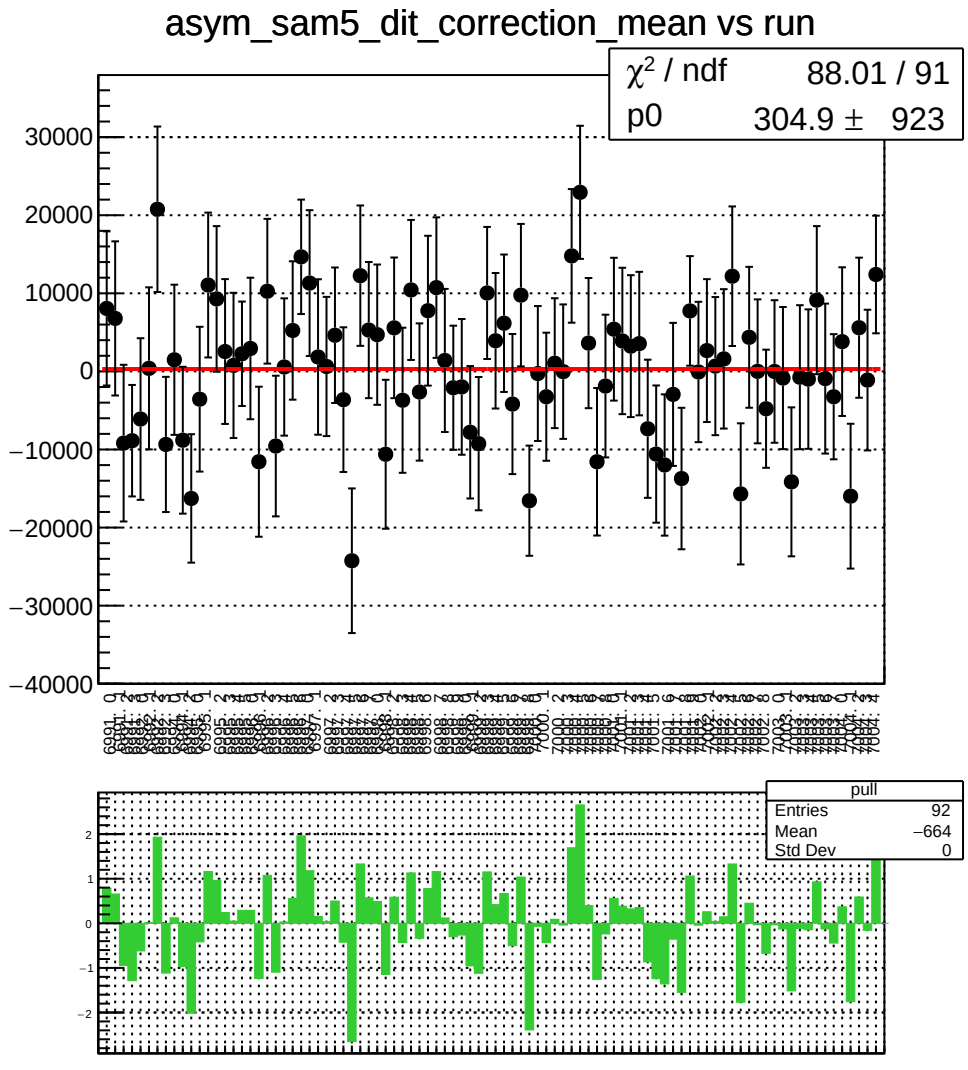

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 88.05 / 91
p0 254.8 ± 884.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1106
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0008918
Std Dev 0.9783
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

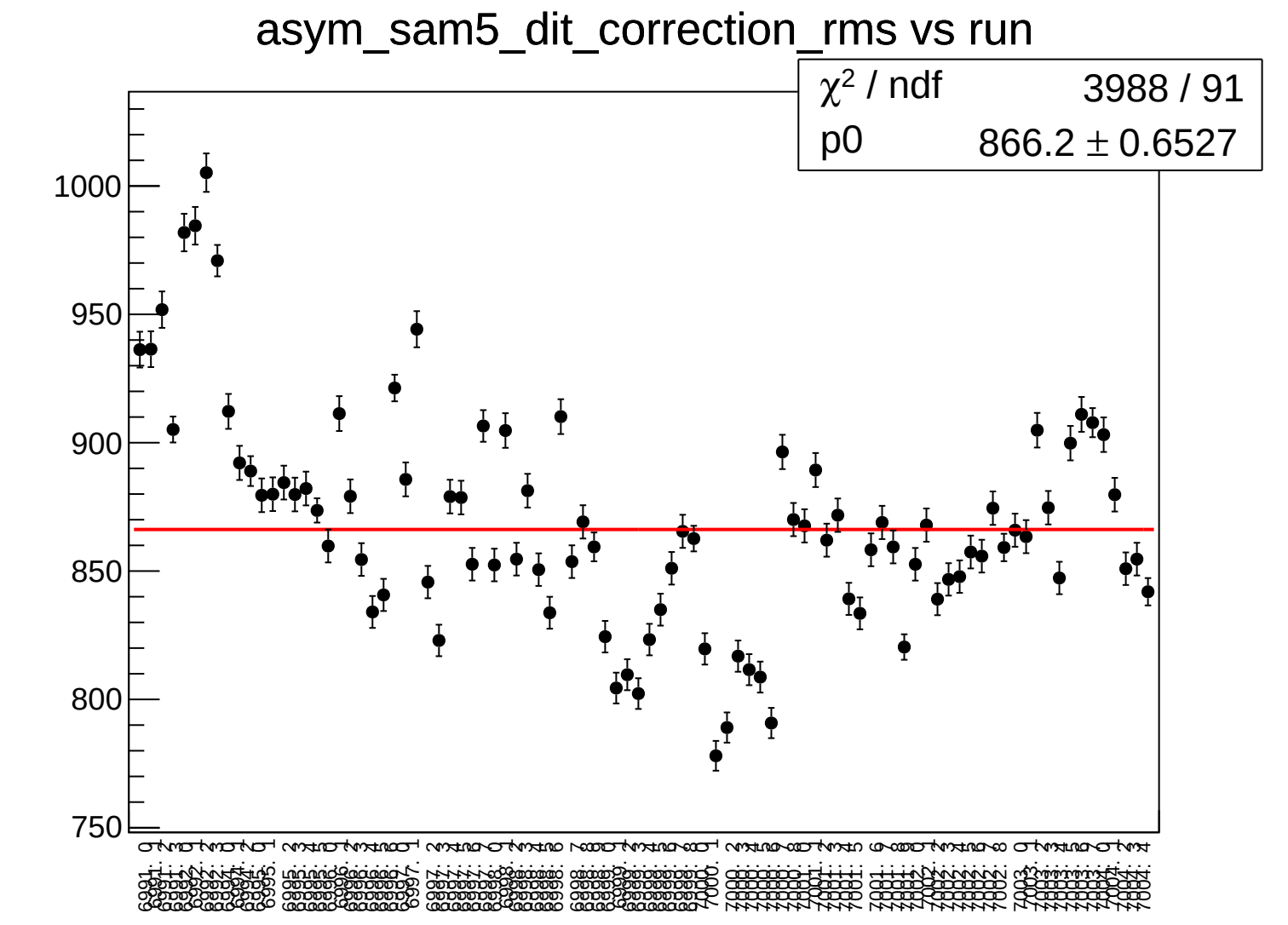

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 4154 / 91
p0 830 ± 0.6254
950
900
850
800
750

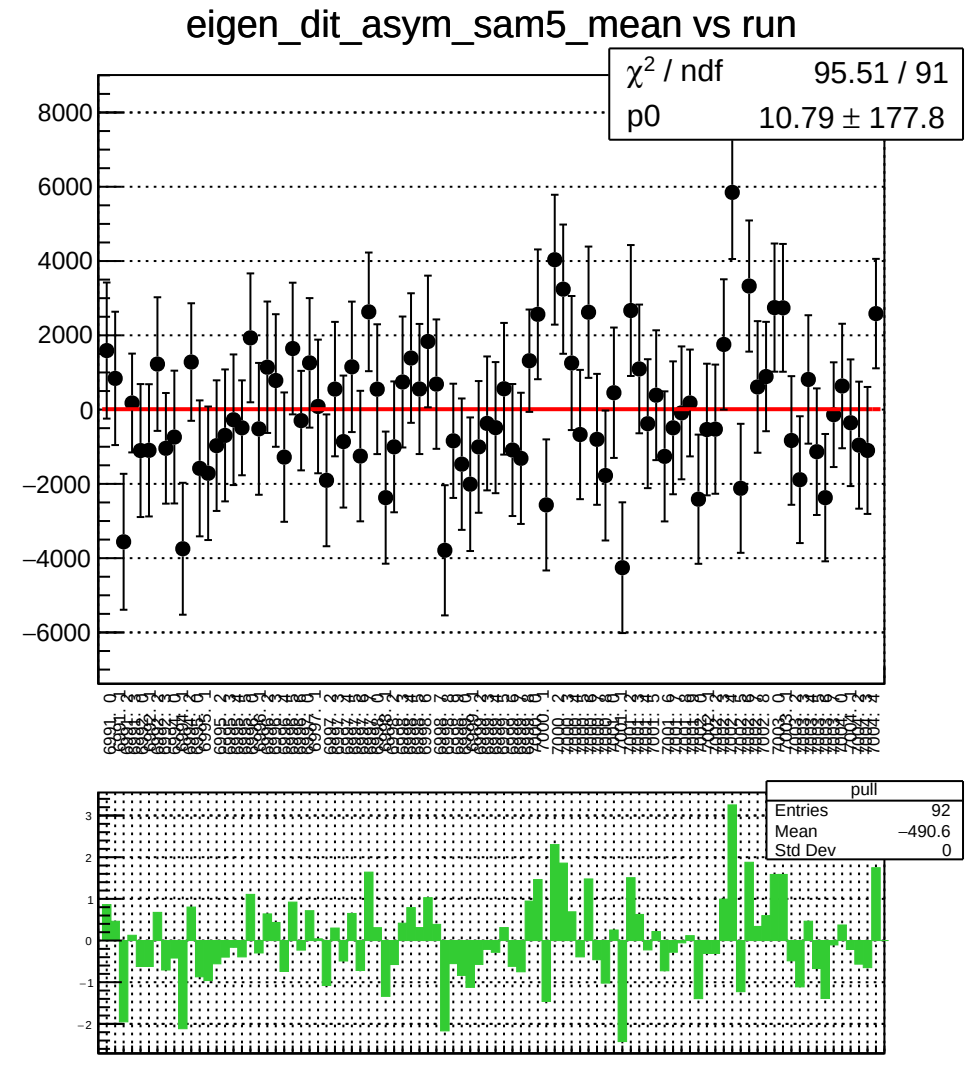

dit_asym_sam5_mean vs run
χ² / ndf 95.51 / 91
p0 10.79 ± 177.8
pull
Entries 92
Mean −490.6
Std Dev 0

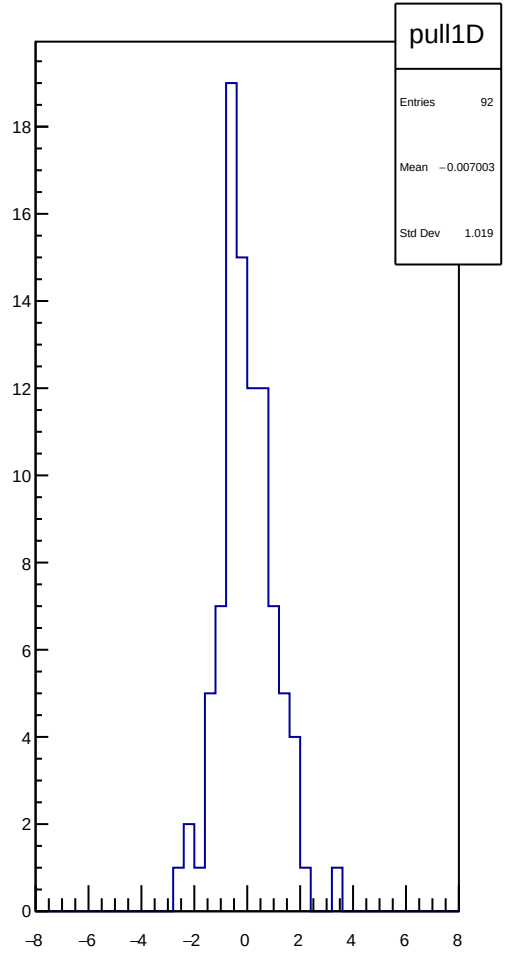

pull1D
Entries 92
Mean −0.007004
Std Dev 1.019

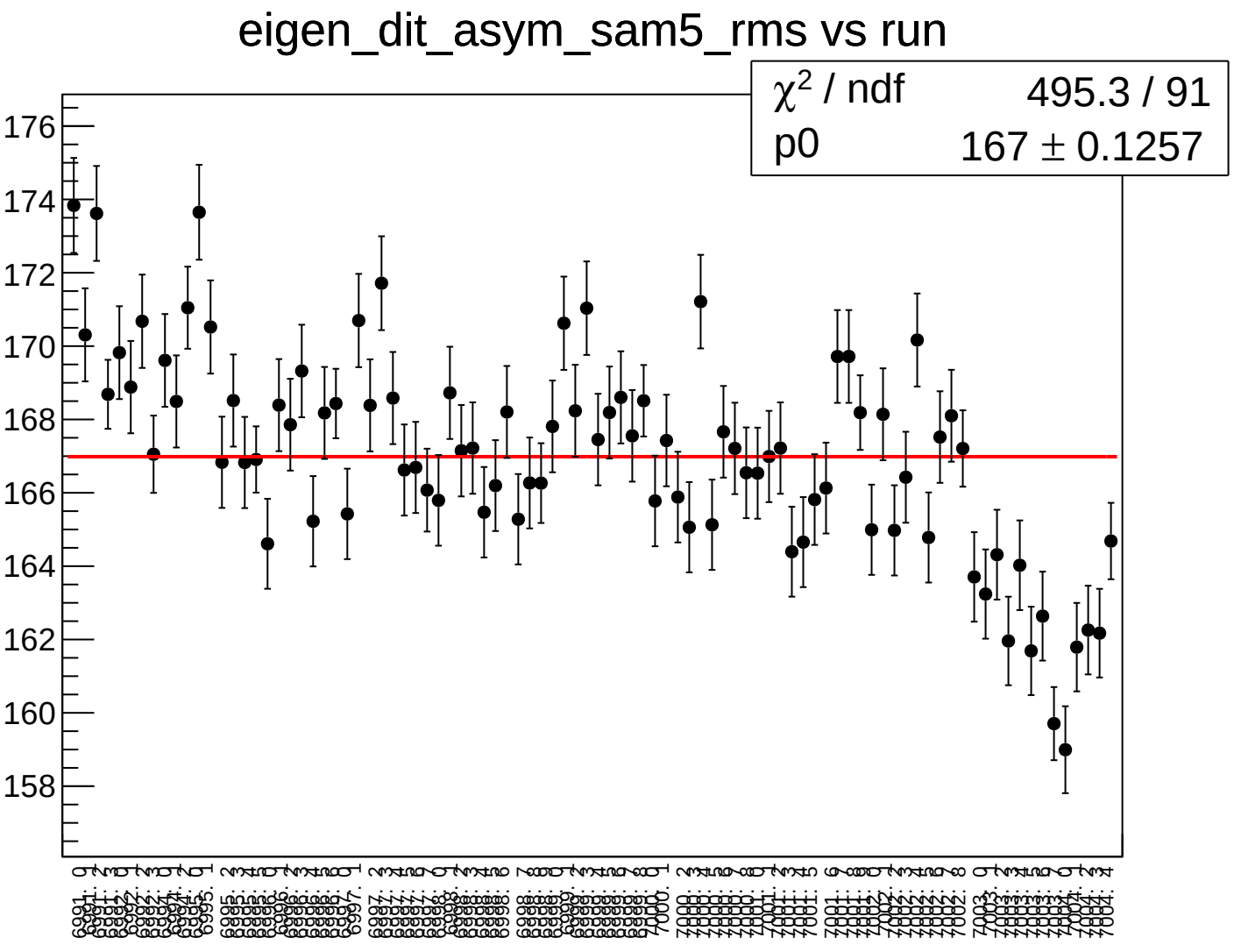

dit_asym_sam5_rms vs run
χ^2 / ndf 495.3 / 91
p0 167 ± 0.1257
176
174
172
170
168
166
164
162
160
158

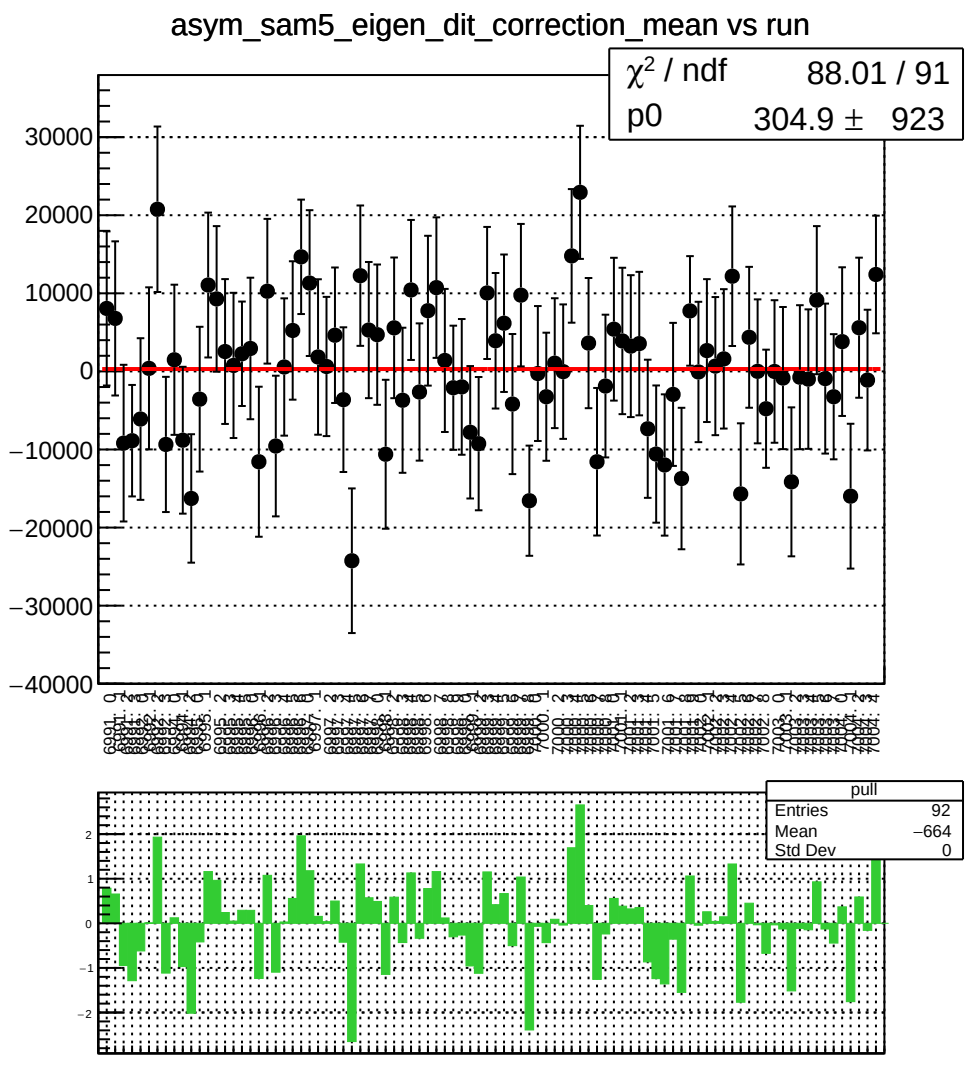

asym_sam5_dit_correction_mean vs run
χ² / ndf 88.01 / 91
p0 304.9 ± 923
pull
Entries 92
Mean −664
Std Dev 0
pull1D
Entries 92
Mean 0.001298
Std Dev 0.9781

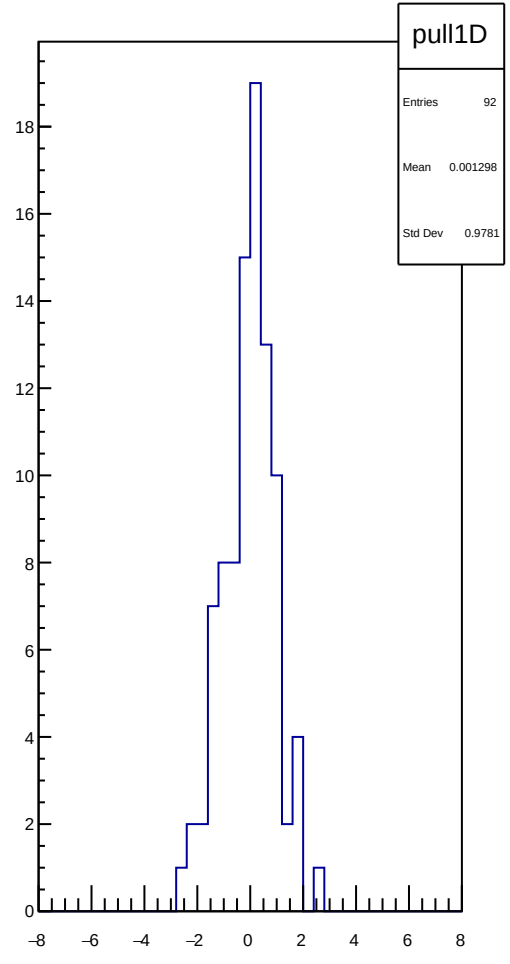

asym_sam5_dit_correction_rms vs run
χ² / ndf 3988 / 91
p0 866.2 ± 0.6527
1000
950
900
850
800
750

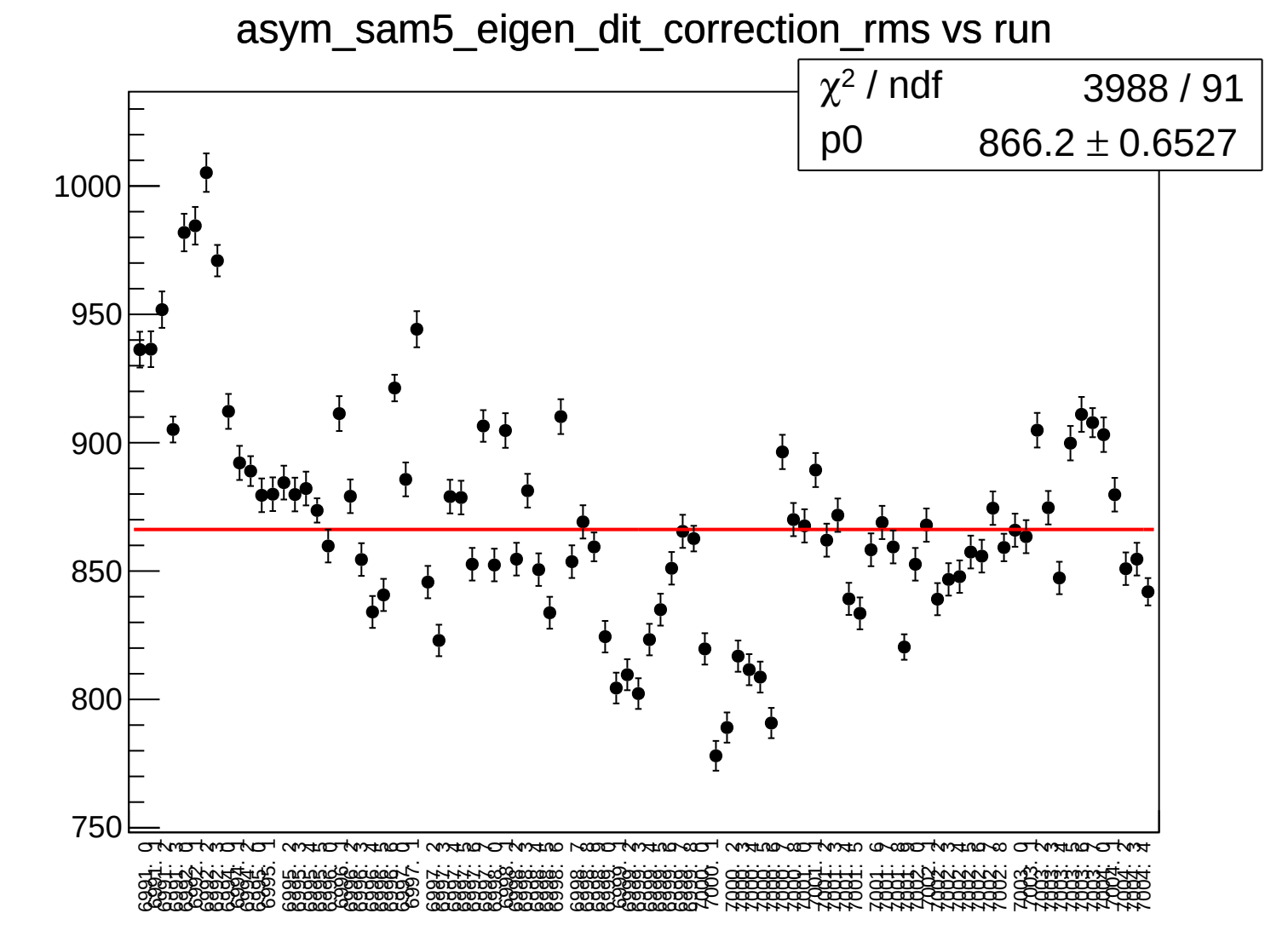

eigen_dit_asym_sam5_mean vs run
χ² / ndf 95.51 / 91
p0 10.79 ± 177.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −490.6
Std Dev 0
3
2
1
0
−1
−2

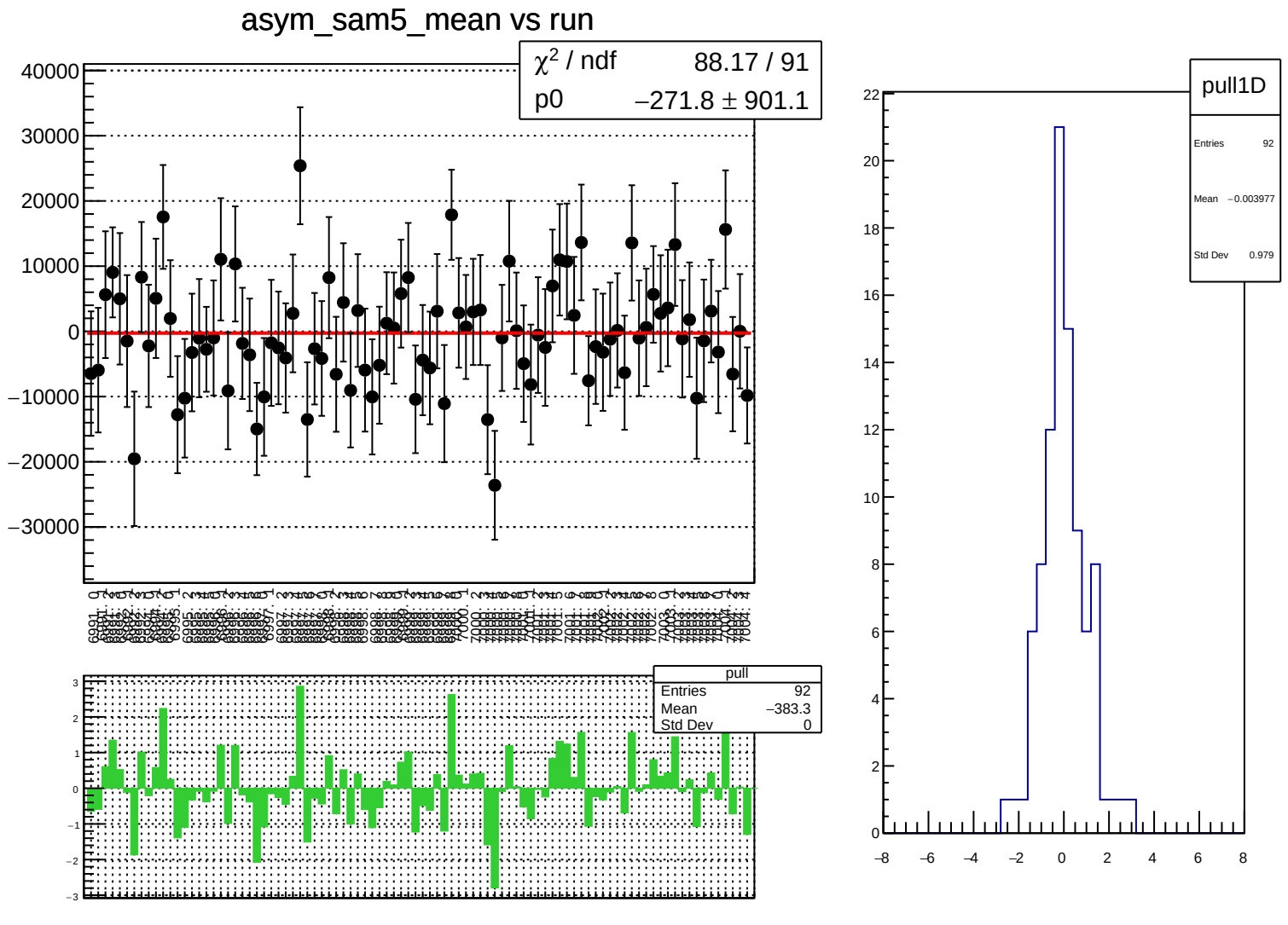

pull1D
Entries 92
Mean −0.007003
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

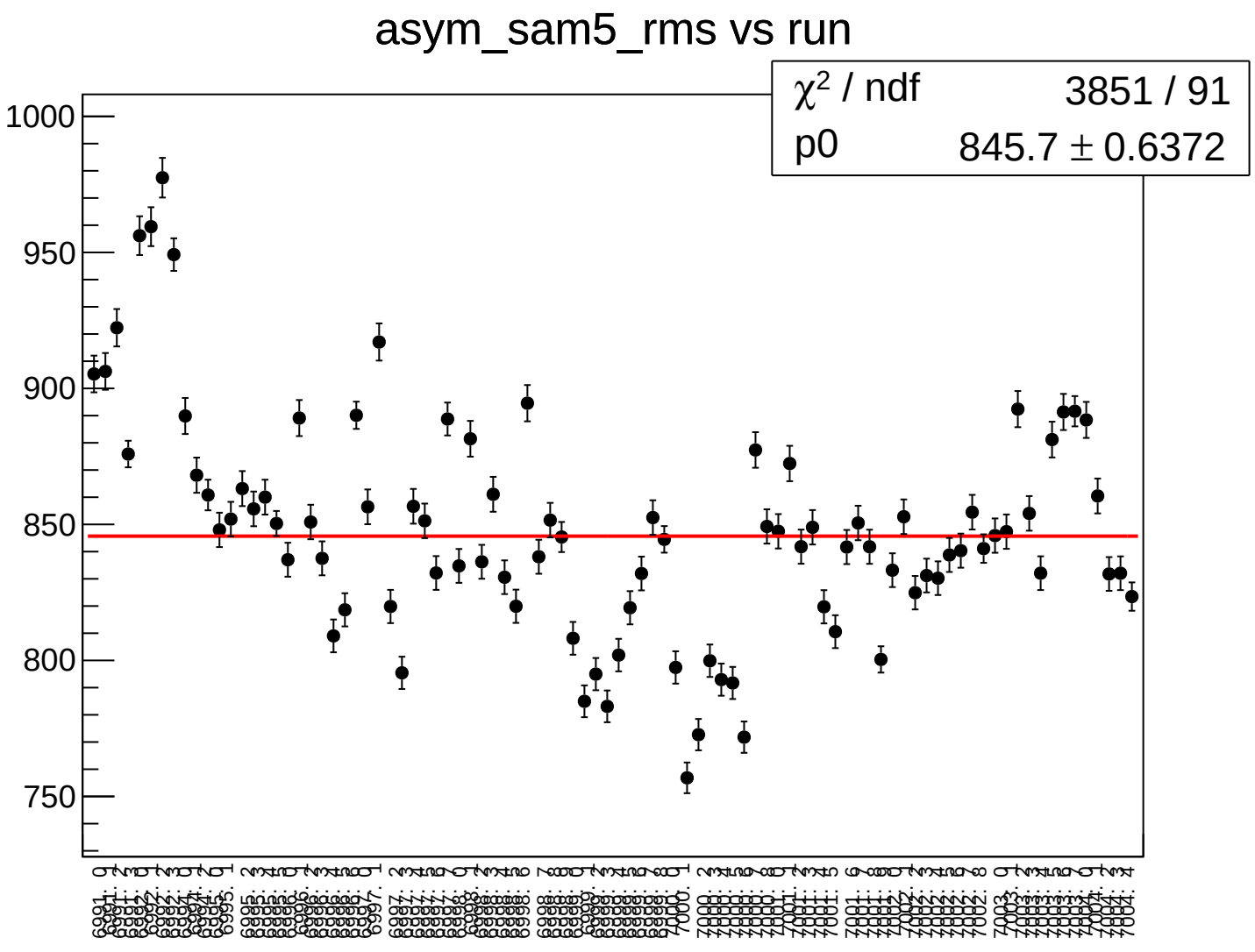

eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 495.3 / 91
p0 167 ± 0.1257
176
174
172
170
168
166
164
162
160
158

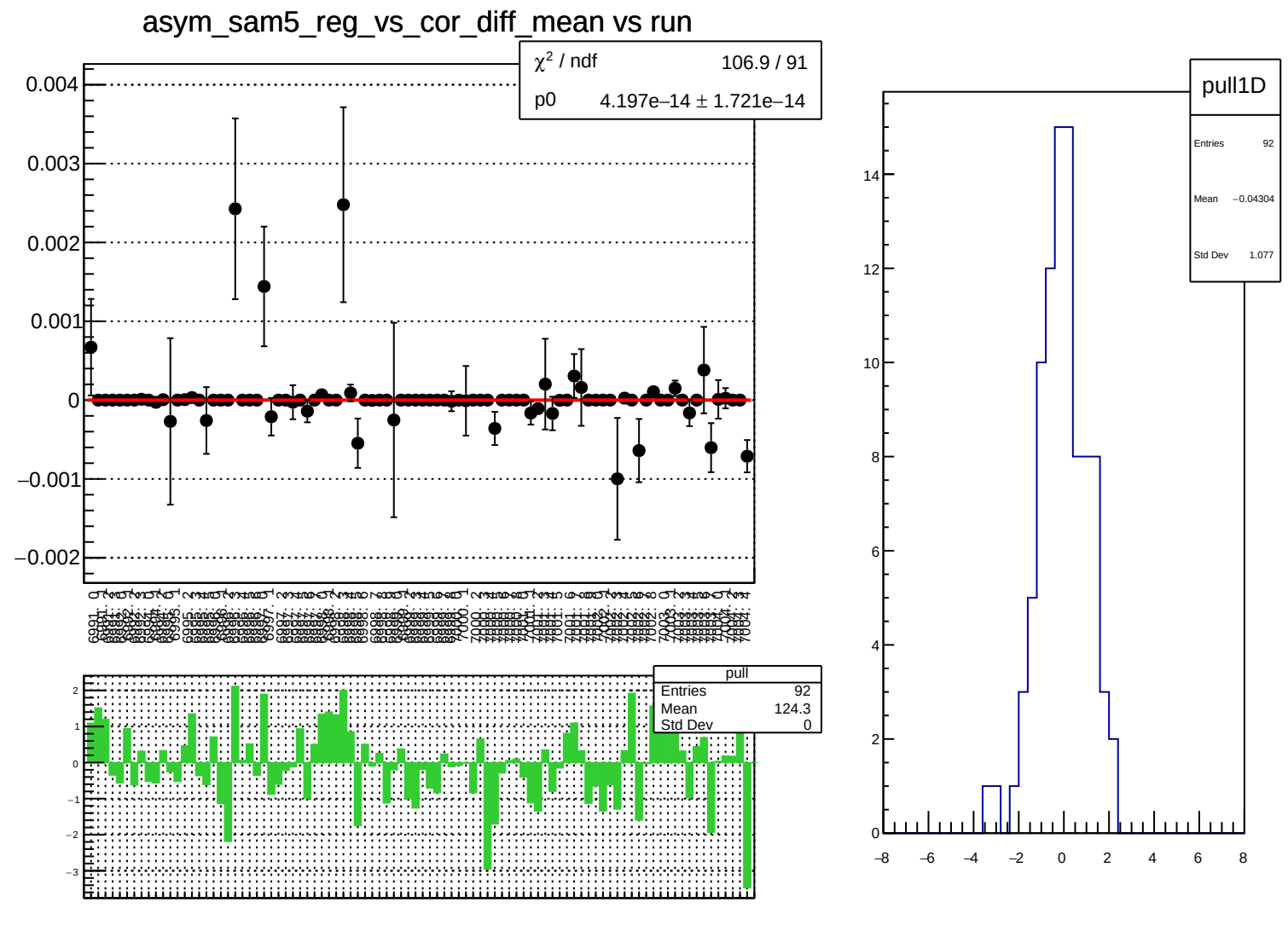

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 88.01 / 91
p0 304.9 ± 923
pull
Entries 92
Mean −664
Std Dev 0

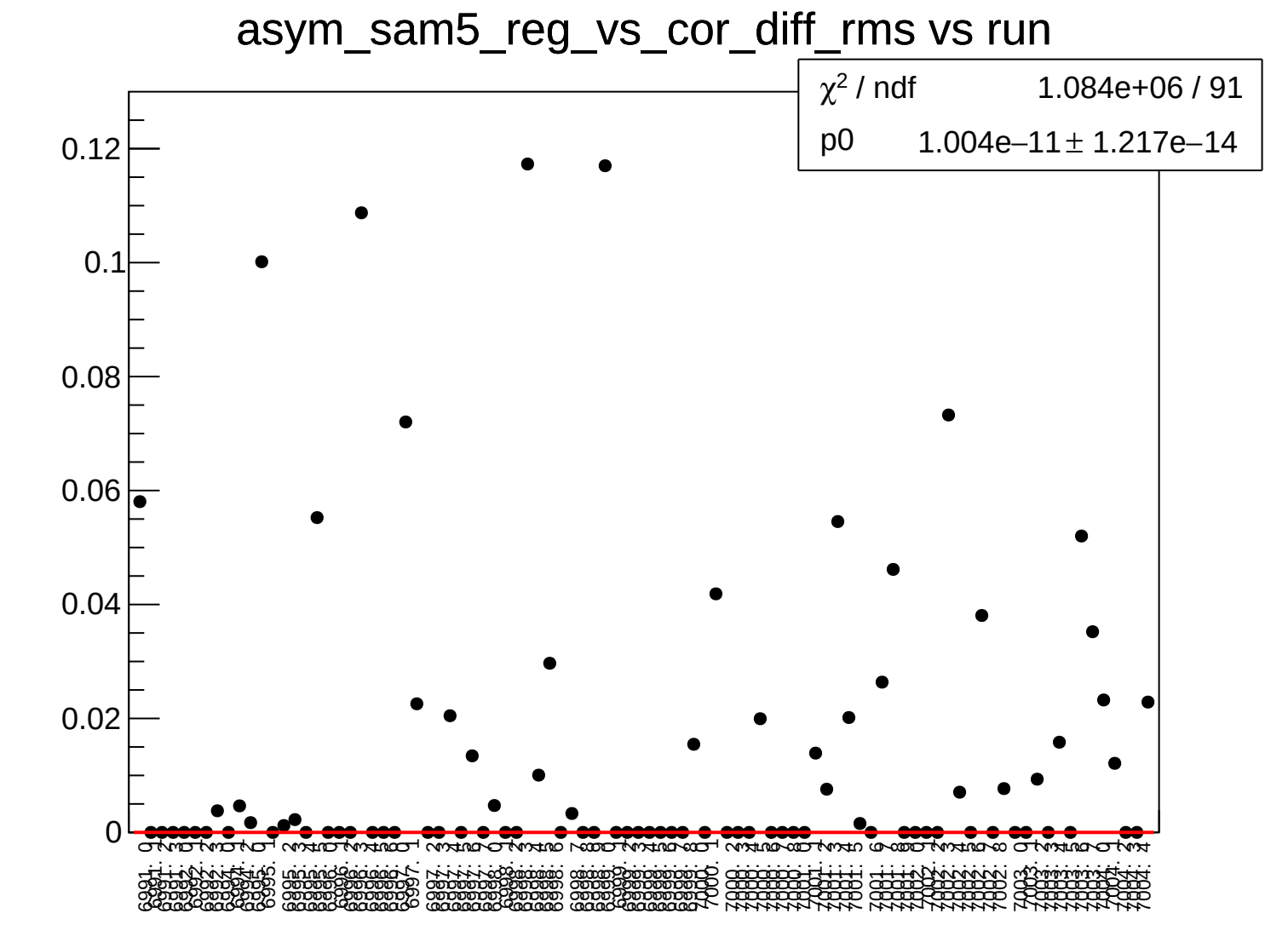

pull1D
Entries 92
Mean 0.001298
Std Dev 0.9781

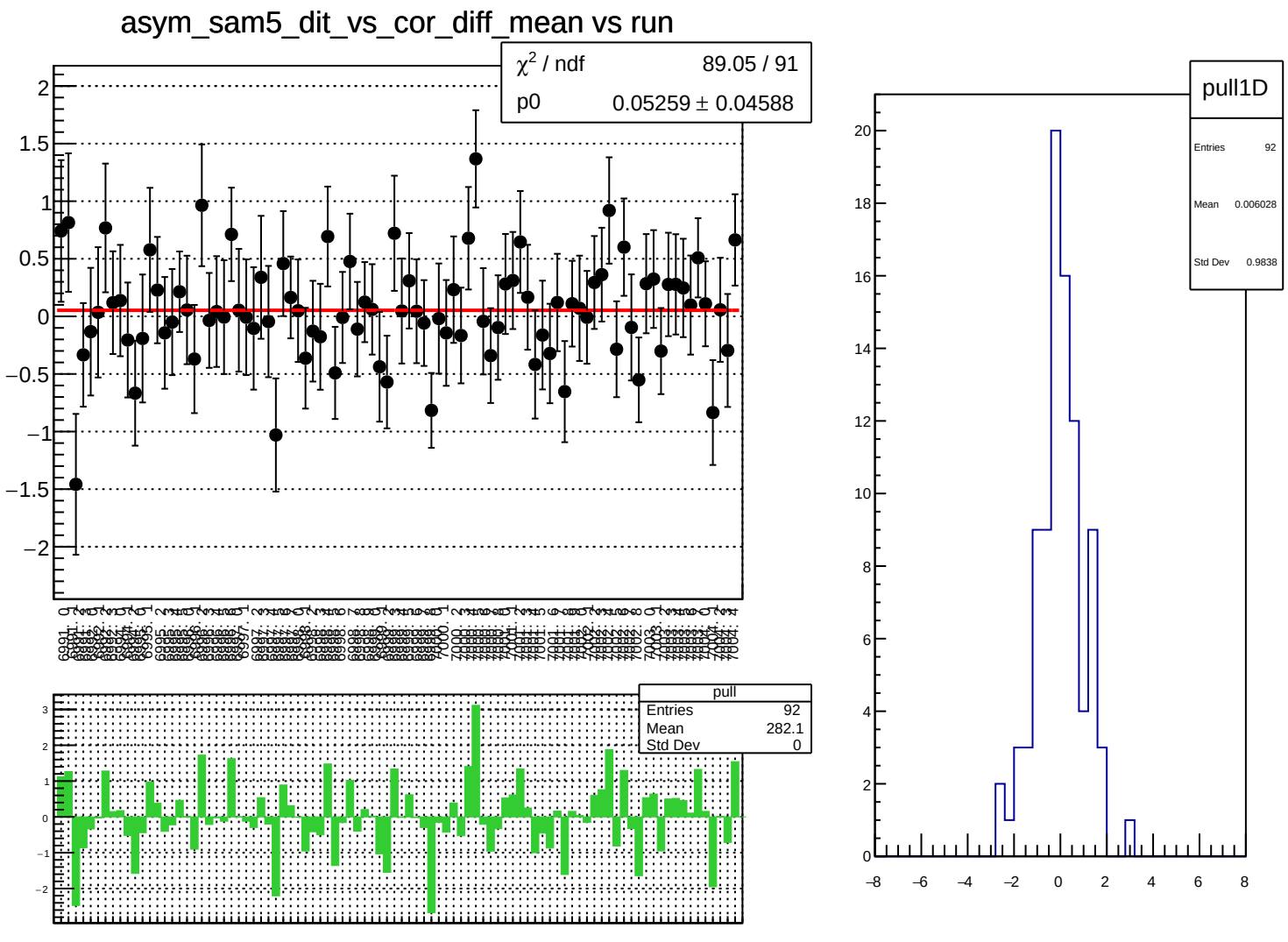

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 3988 / 91
p0 866.2 ± 0.6527
1000
950
900
850
800
750

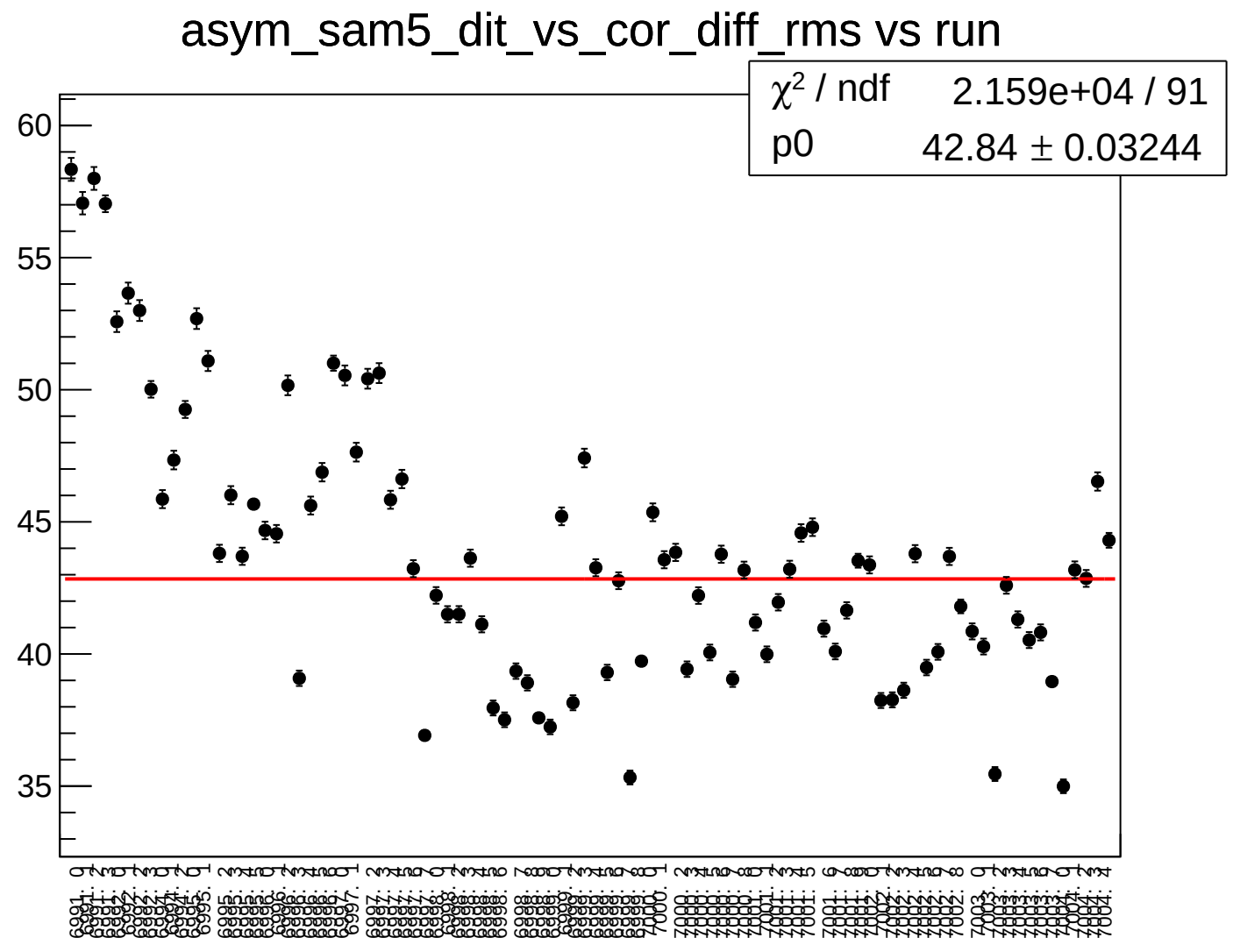

asym_sam5_mean vs run
χ² / ndf 88.17 / 91
p0 −271.8 ± 901.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −383.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.003977
Std Dev 0.979
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

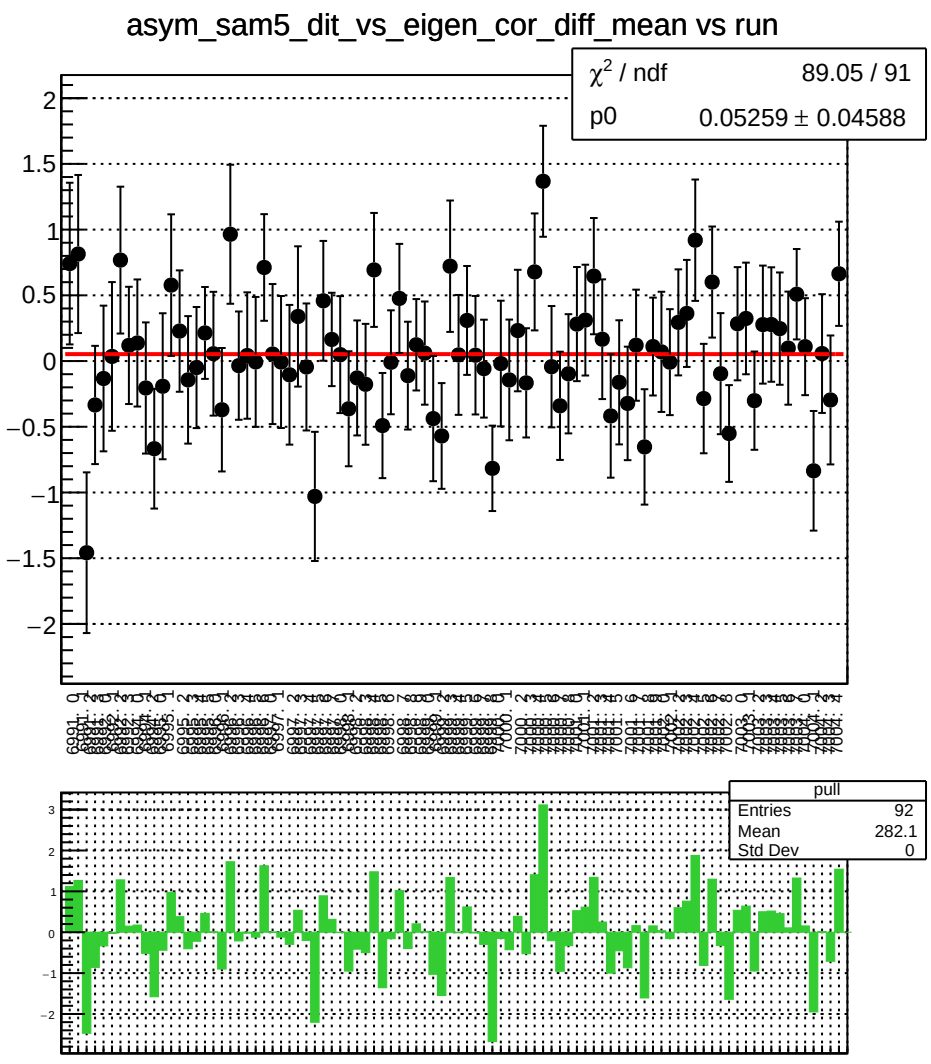

asym_sam5_rms vs run
χ² / ndf 3851 / 91
p0 845.7 ± 0.6372
1000
950
900
850
800
750

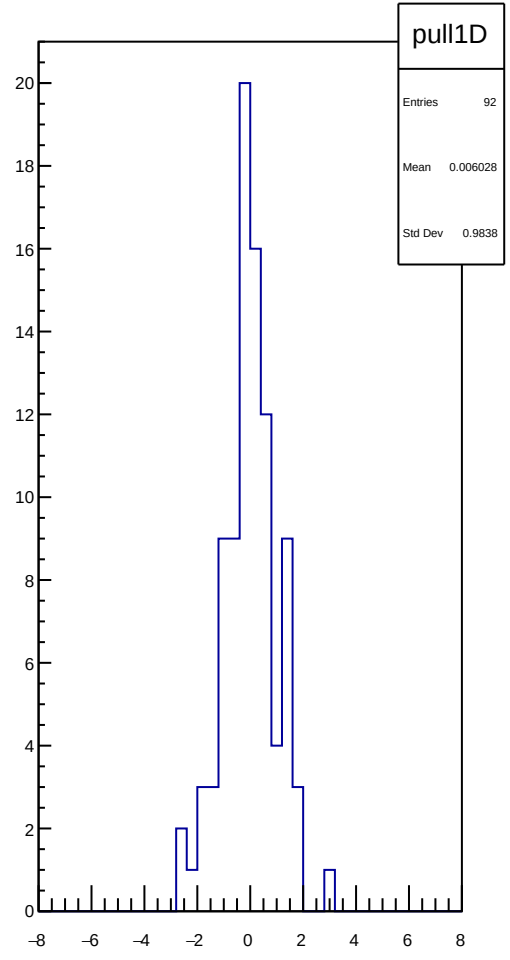

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 91
p0 4.197e−14 ± 1.721e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 92
Mean 124.3
Std Dev 0
pull1D
Entries 92
Mean −0.04304
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

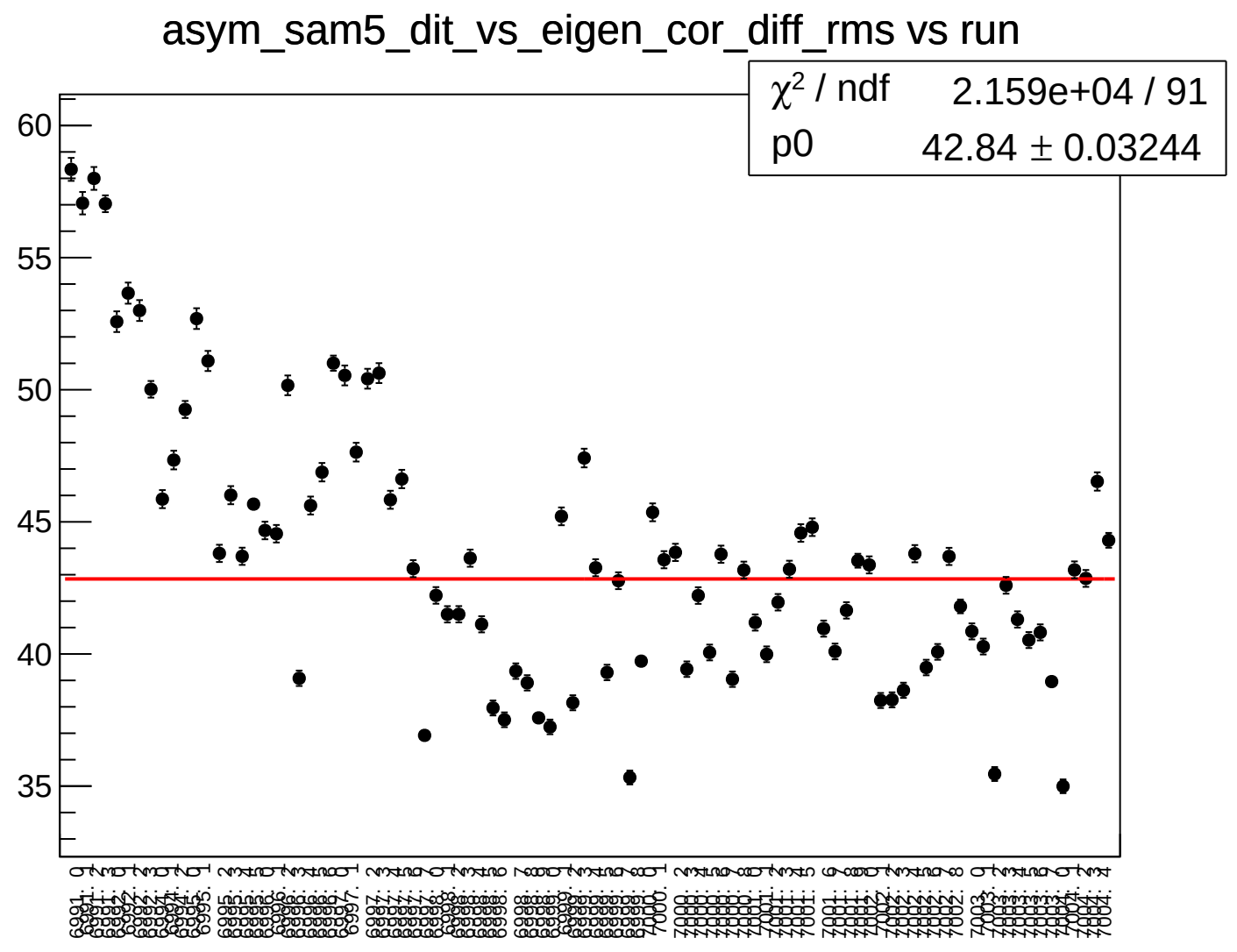

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.084e+06 / 91
p0 1.004e−11 ± 1.217e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

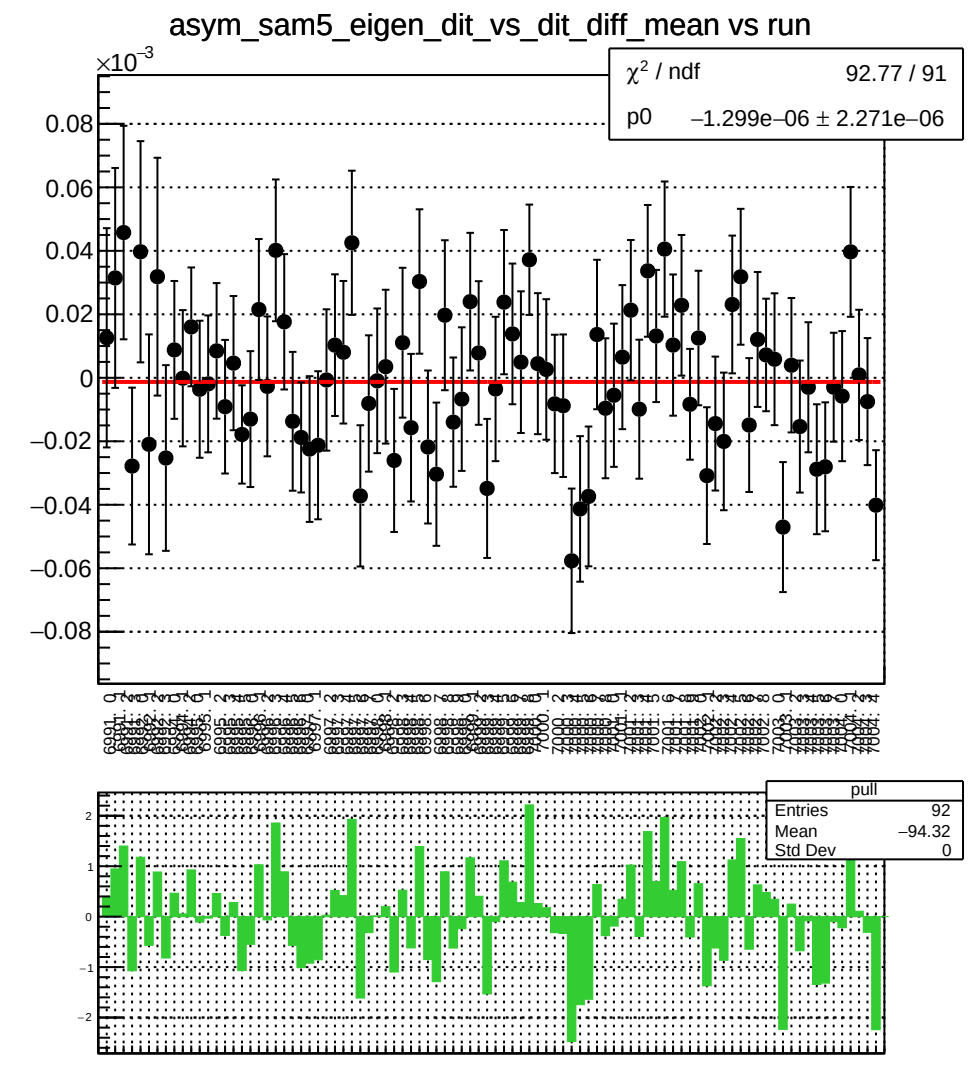

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 89.05 / 91
p0 0.05259 ± 0.04588
pull
Entries 92
Mean 282.1
Std Dev 0
pull1D
Entries 92
Mean 0.006028
Std Dev 0.9838

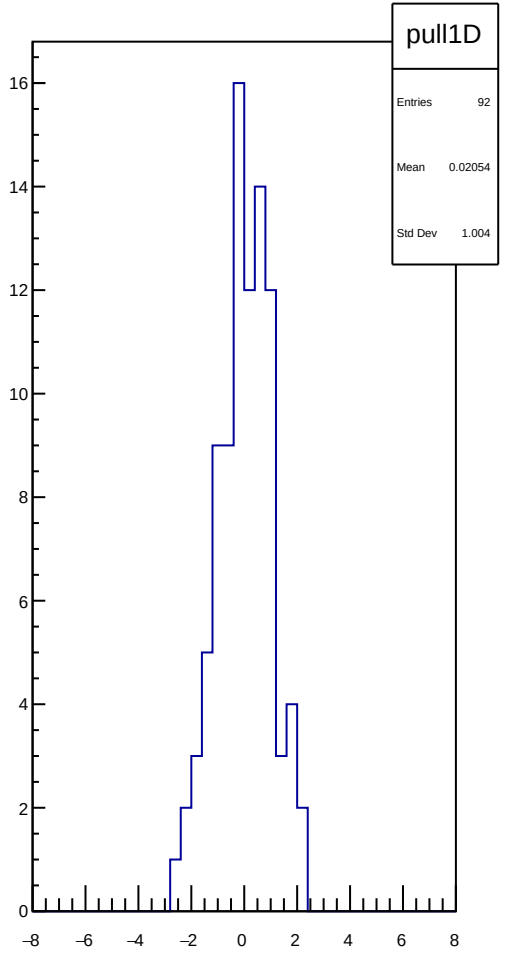

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.159e+04 / 91
p0 42.84 ± 0.03244
60
55
50
45
40
35

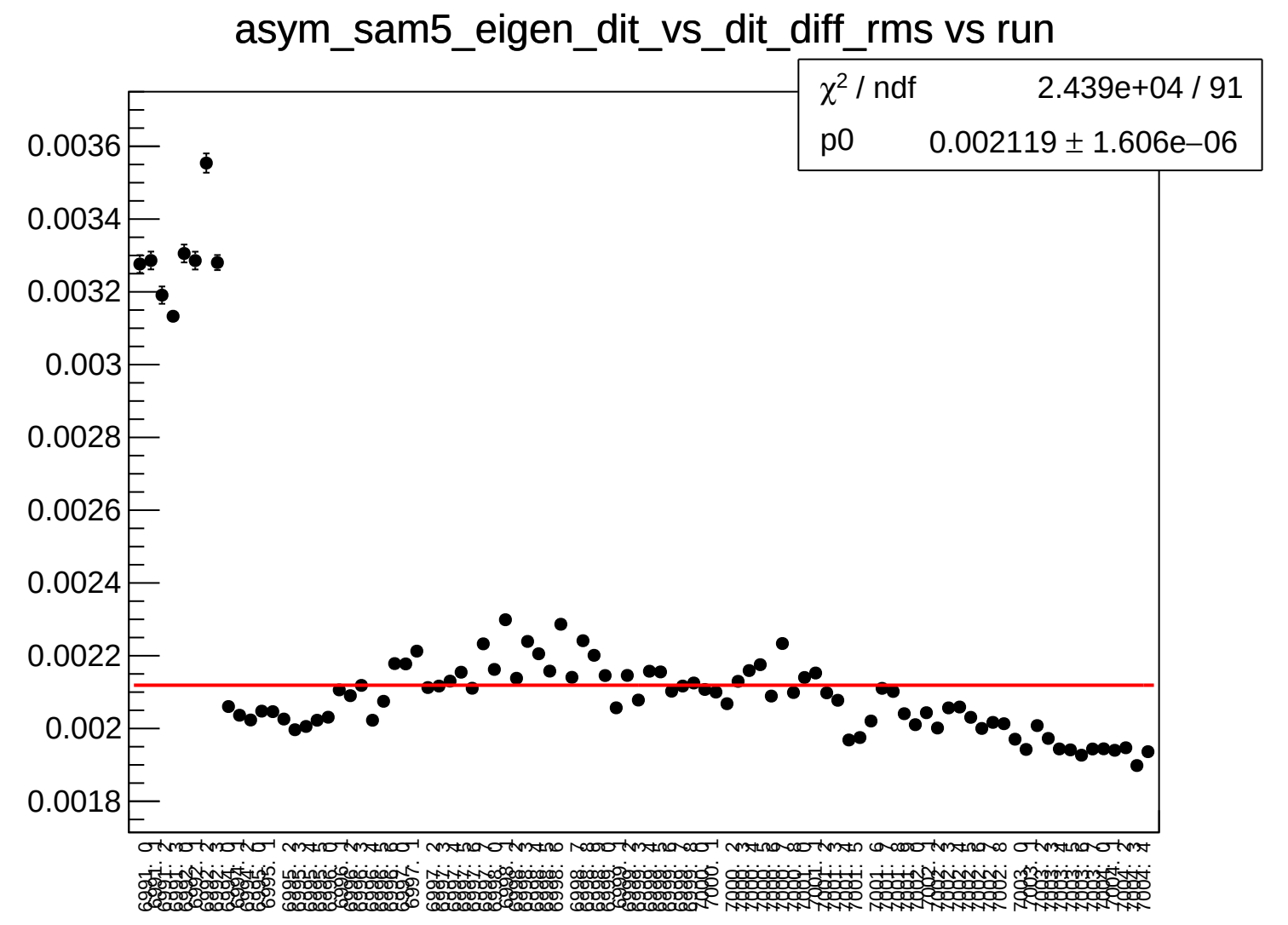

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.05 / 91
p0 0.05259 ± 0.04588
pull
Entries 92
Mean 282.1
Std Dev 0

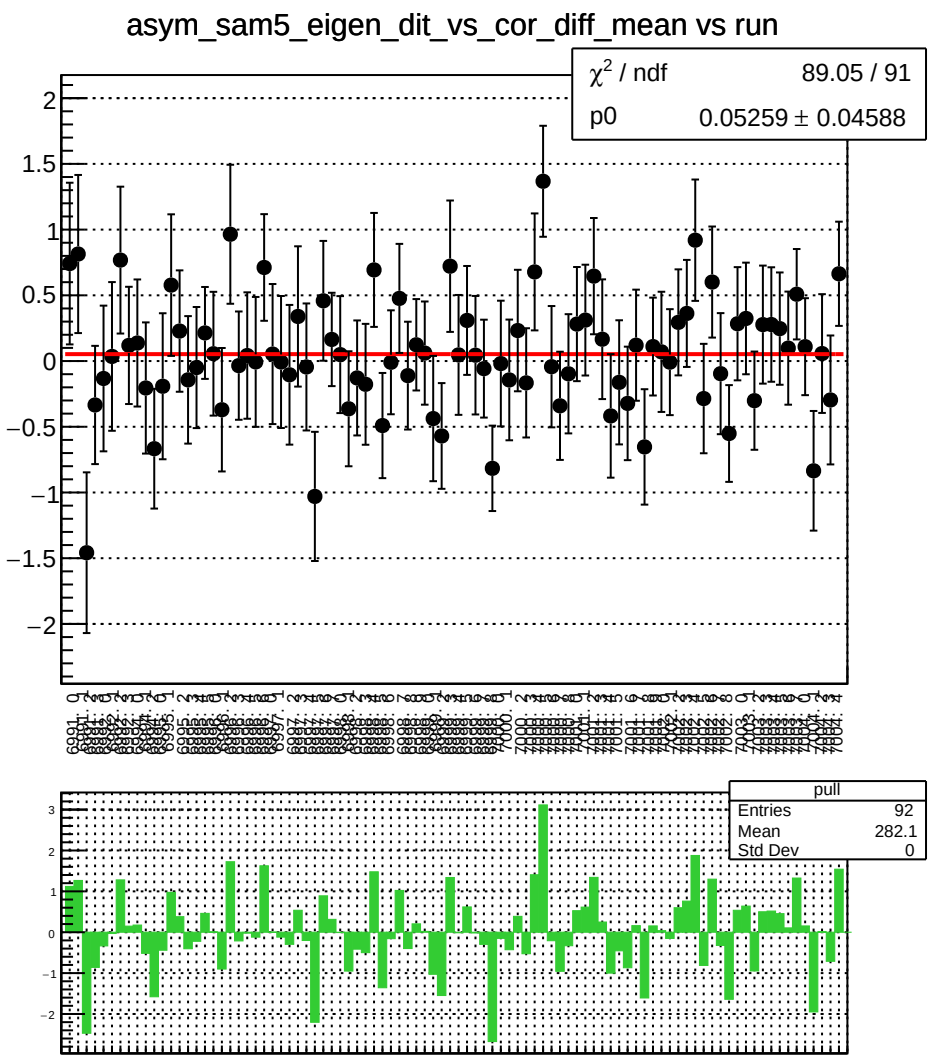

pull1D
Entries 92
Mean 0.006028
Std Dev 0.9838

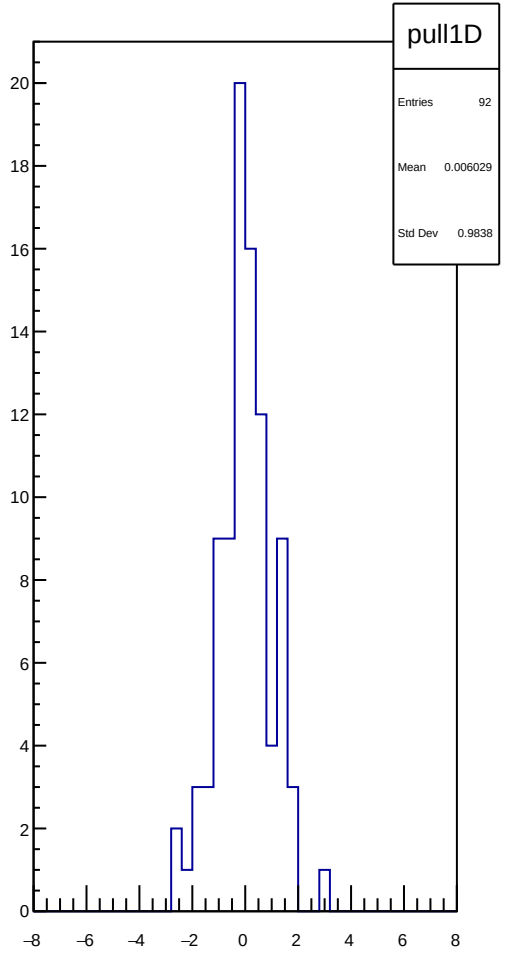

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.159e+04 / 91
p0 42.84 ± 0.03244
60
55
50
45
40
35

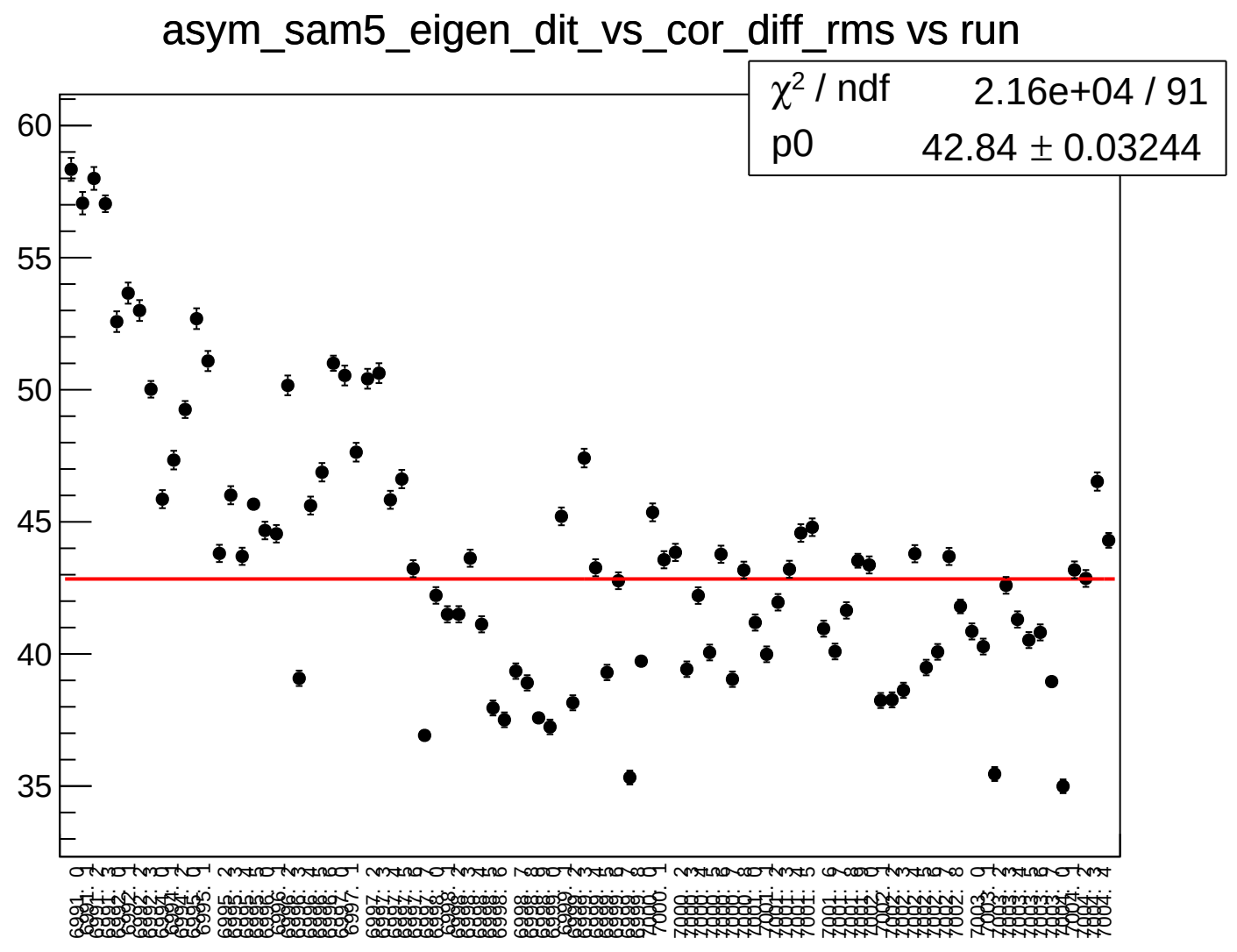

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.77 / 91
p0 −1.299e−06 ± 2.271e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean −94.32
Std Dev 0
2
1
0
−1
−2

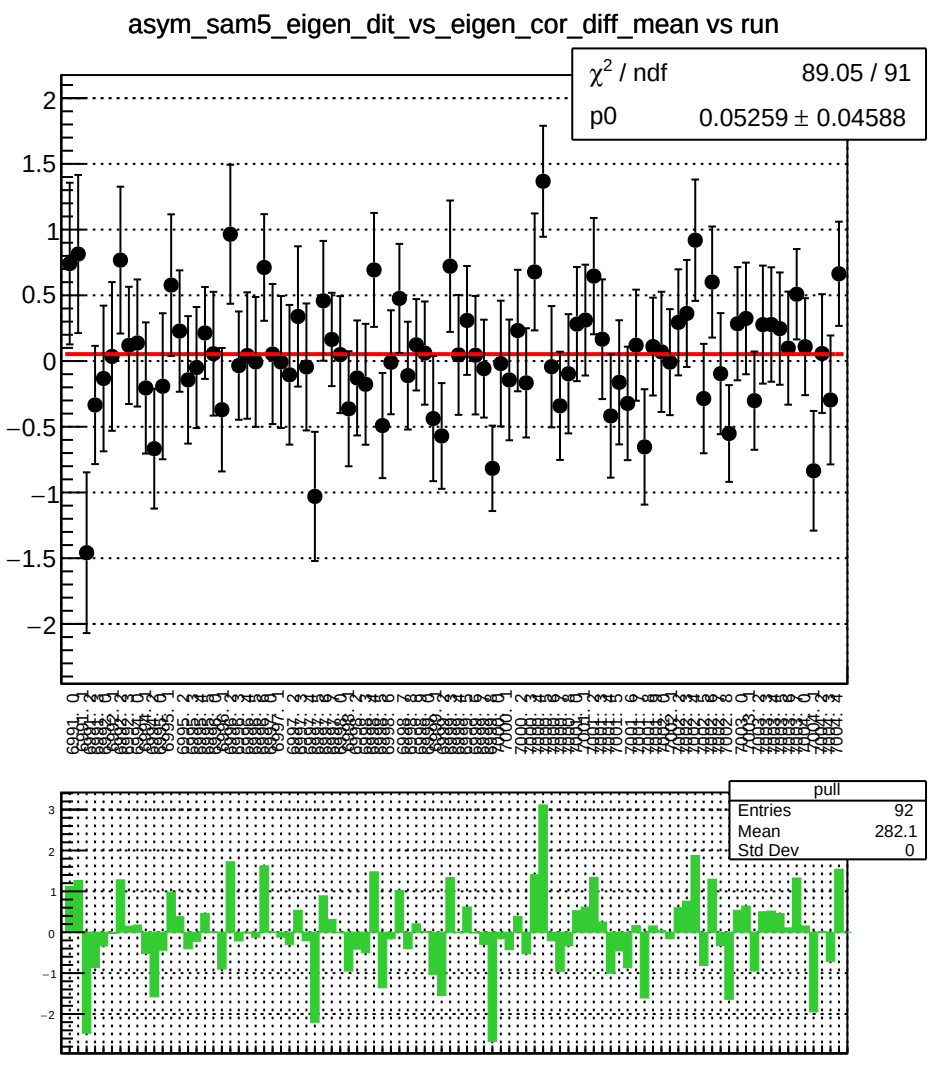

pull1D
Entries 92
Mean 0.02054
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

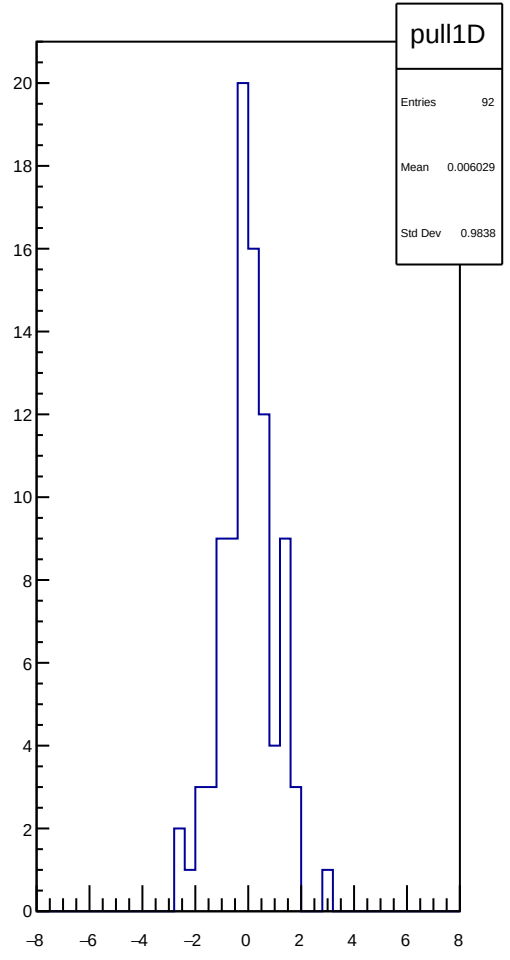

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.439e+04 / 91
p0 0.002119 ± 1.606e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

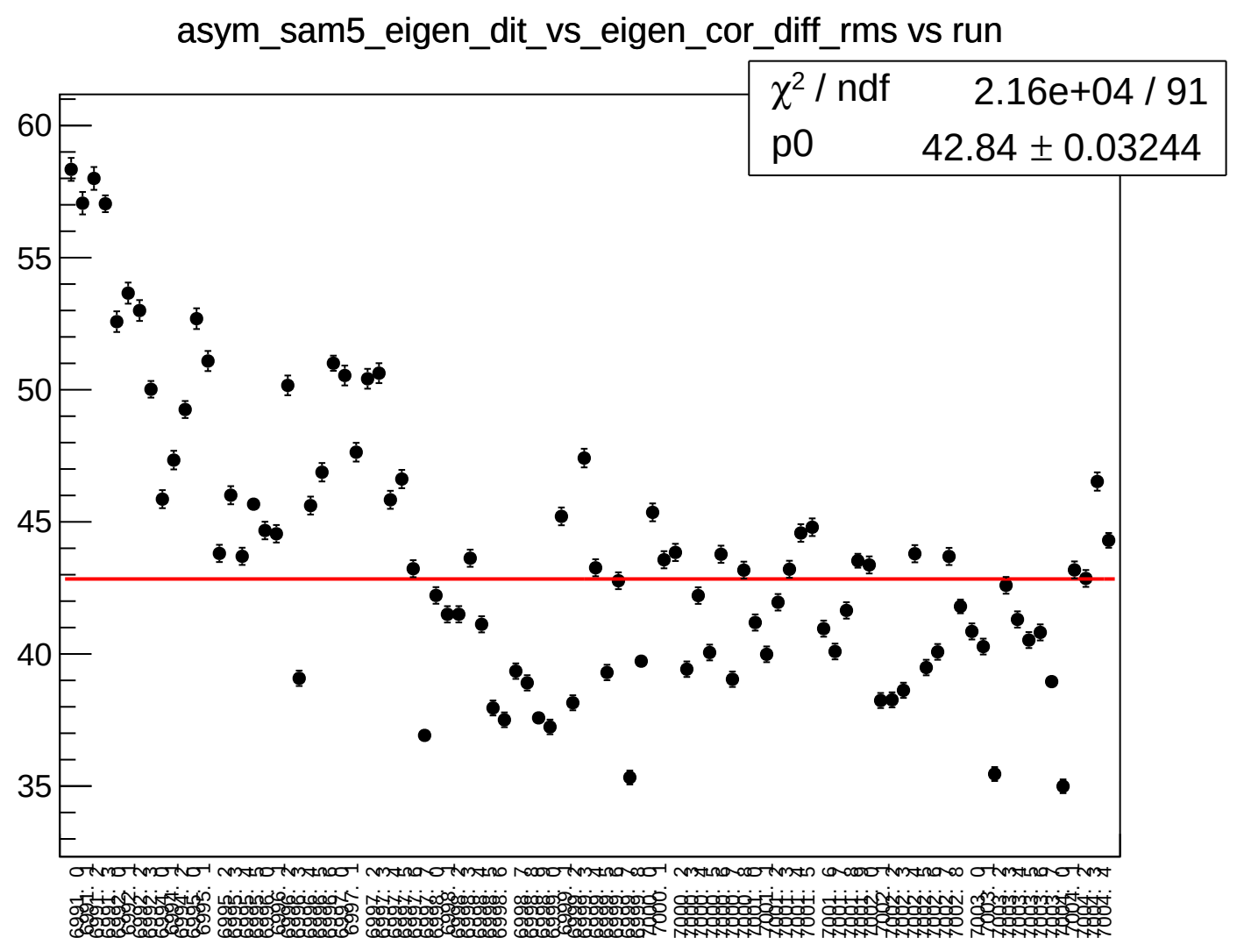

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.05 / 91
p0 0.05259 ± 0.04588
pull
Entries 92
Mean 282.1
Std Dev 0

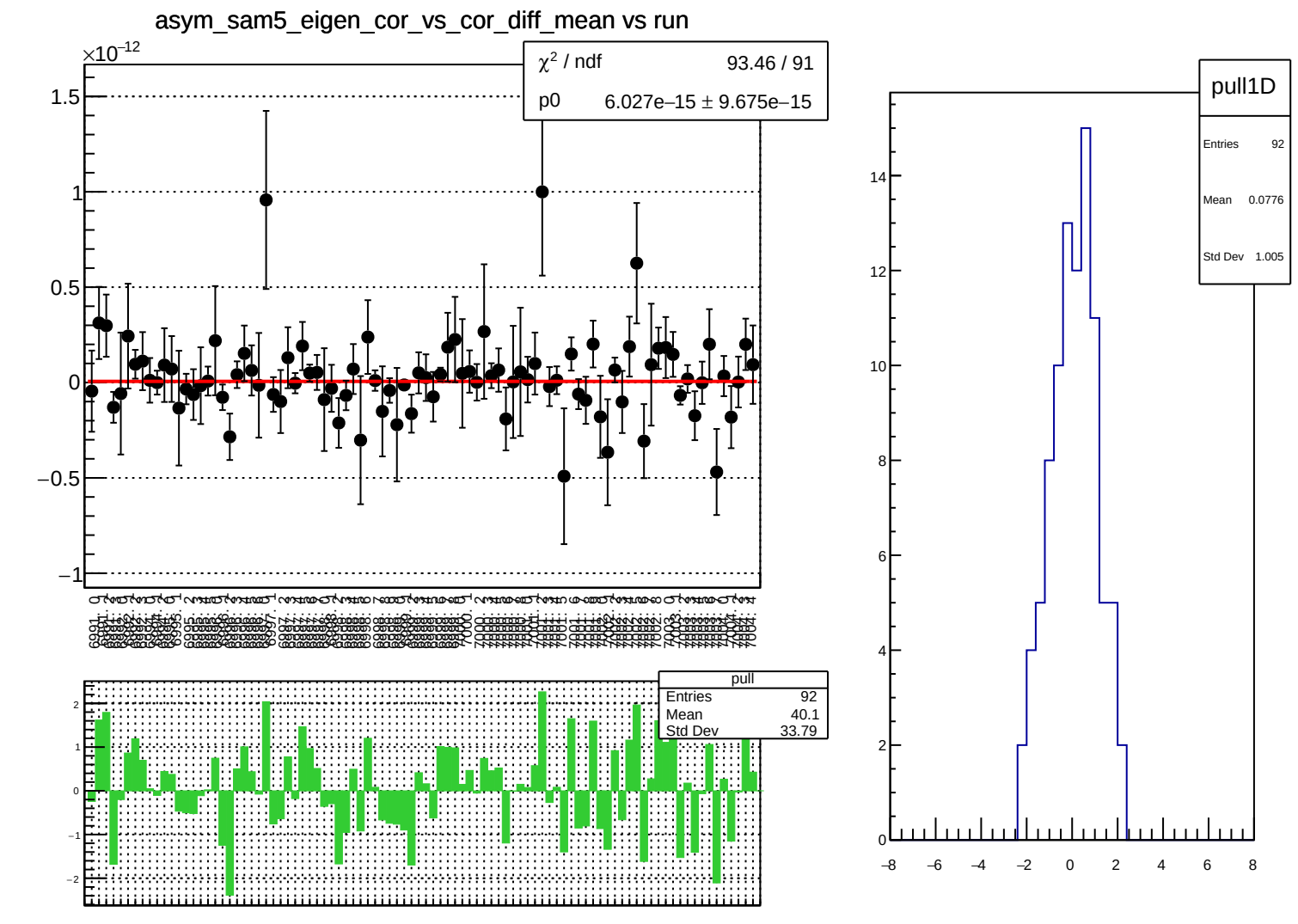

pull1D
Entries 92
Mean 0.006029
Std Dev 0.9838

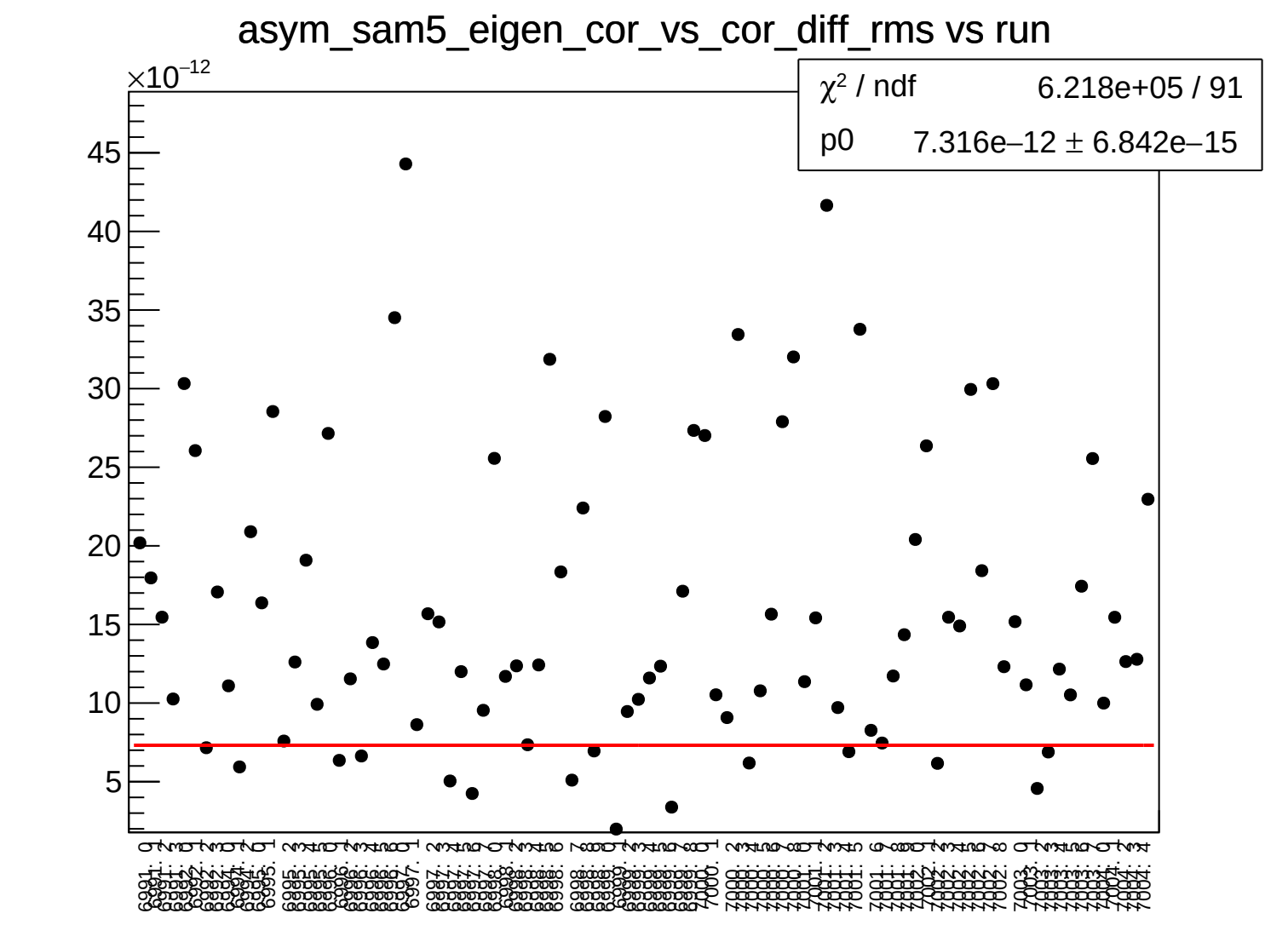

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.16e+04 / 91
p0 42.84 ± 0.03244
60
55
50
45
40
35

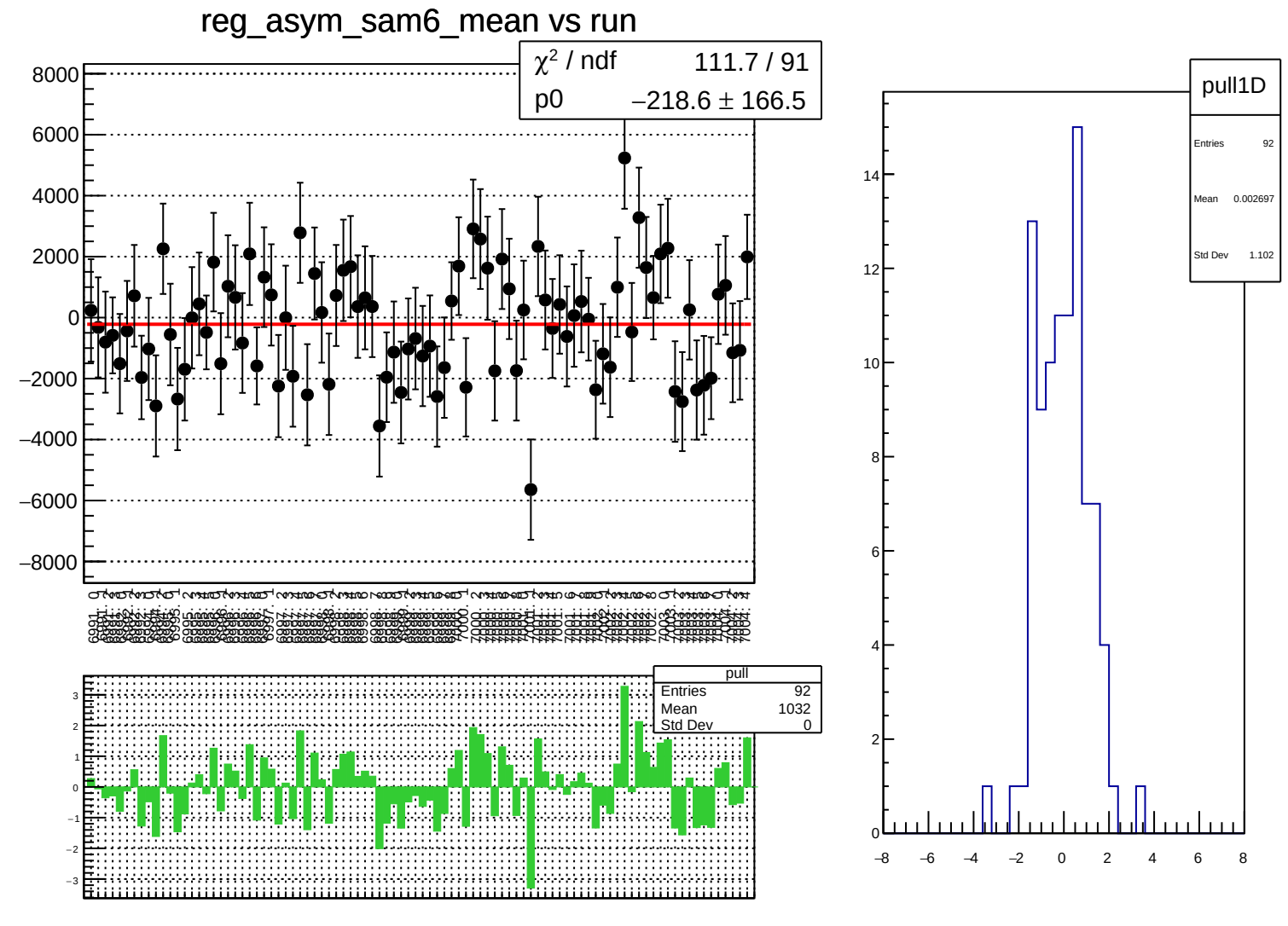

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.05 / 91
p0 0.05259 ± 0.04588
pull
Entries 92
Mean 282.1
Std Dev 0

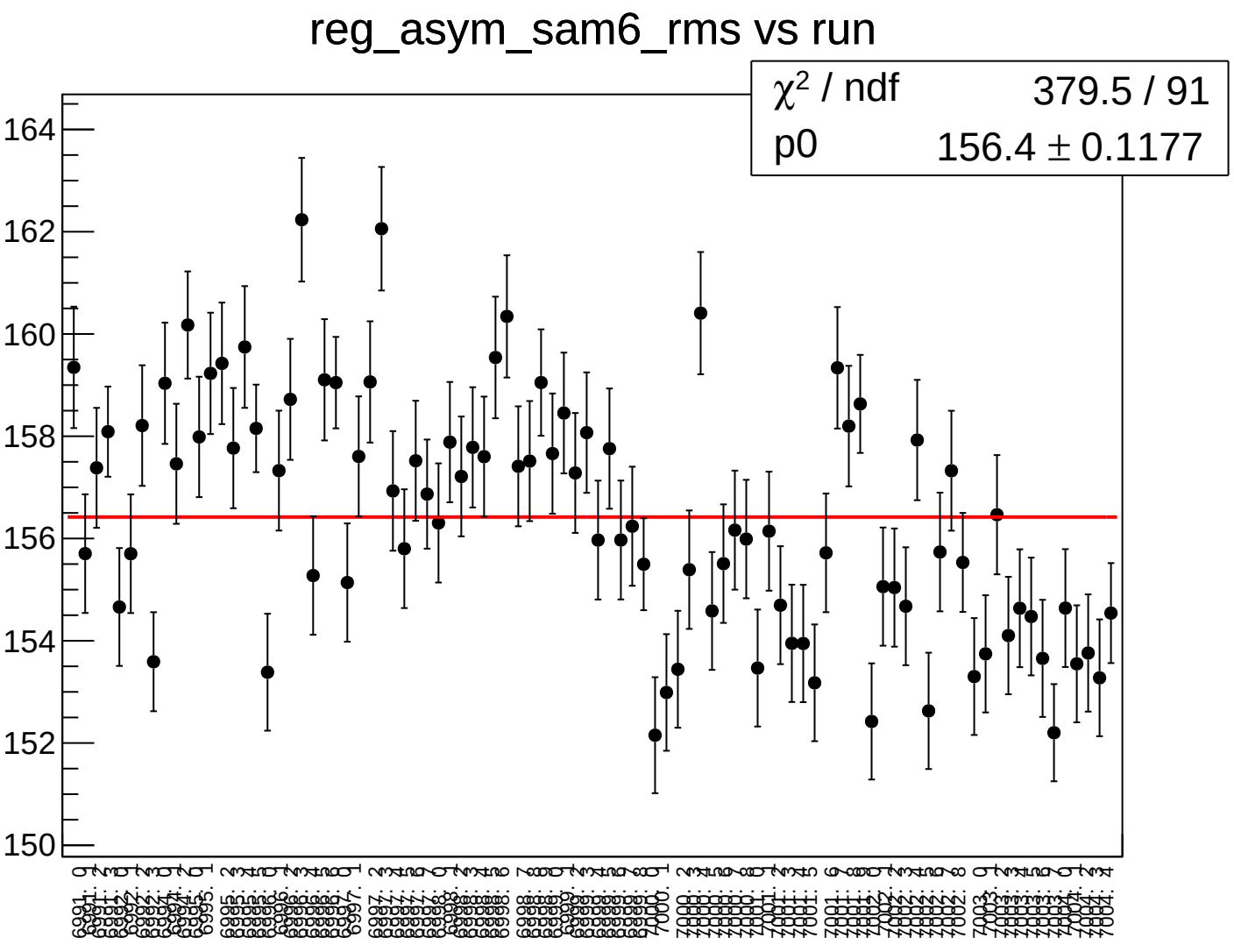

pull1D
Entries 92
Mean 0.006029
Std Dev 0.9838

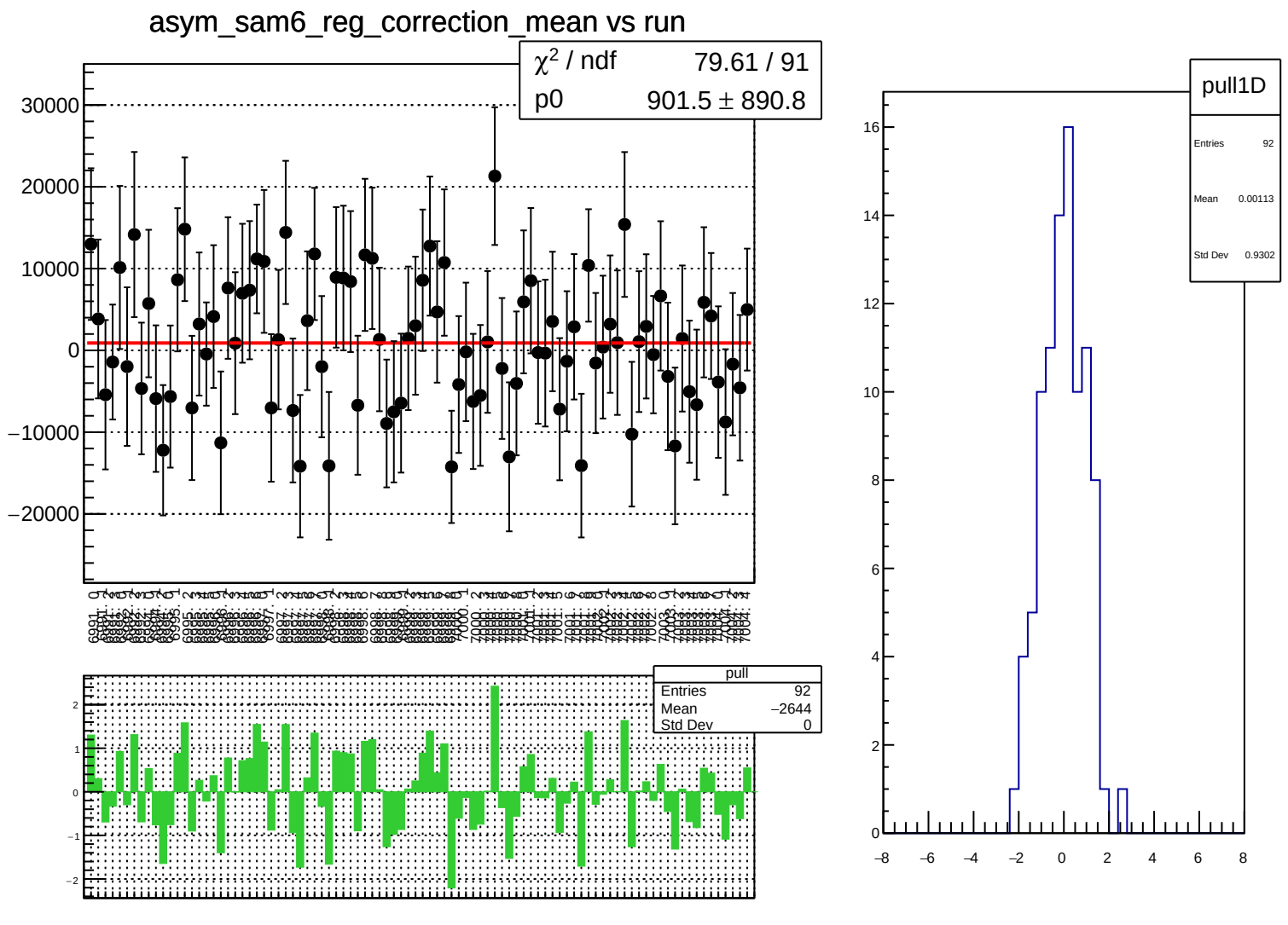

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.16e+04 / 91
p0 42.84 ± 0.03244
60
55
50
45
40
35

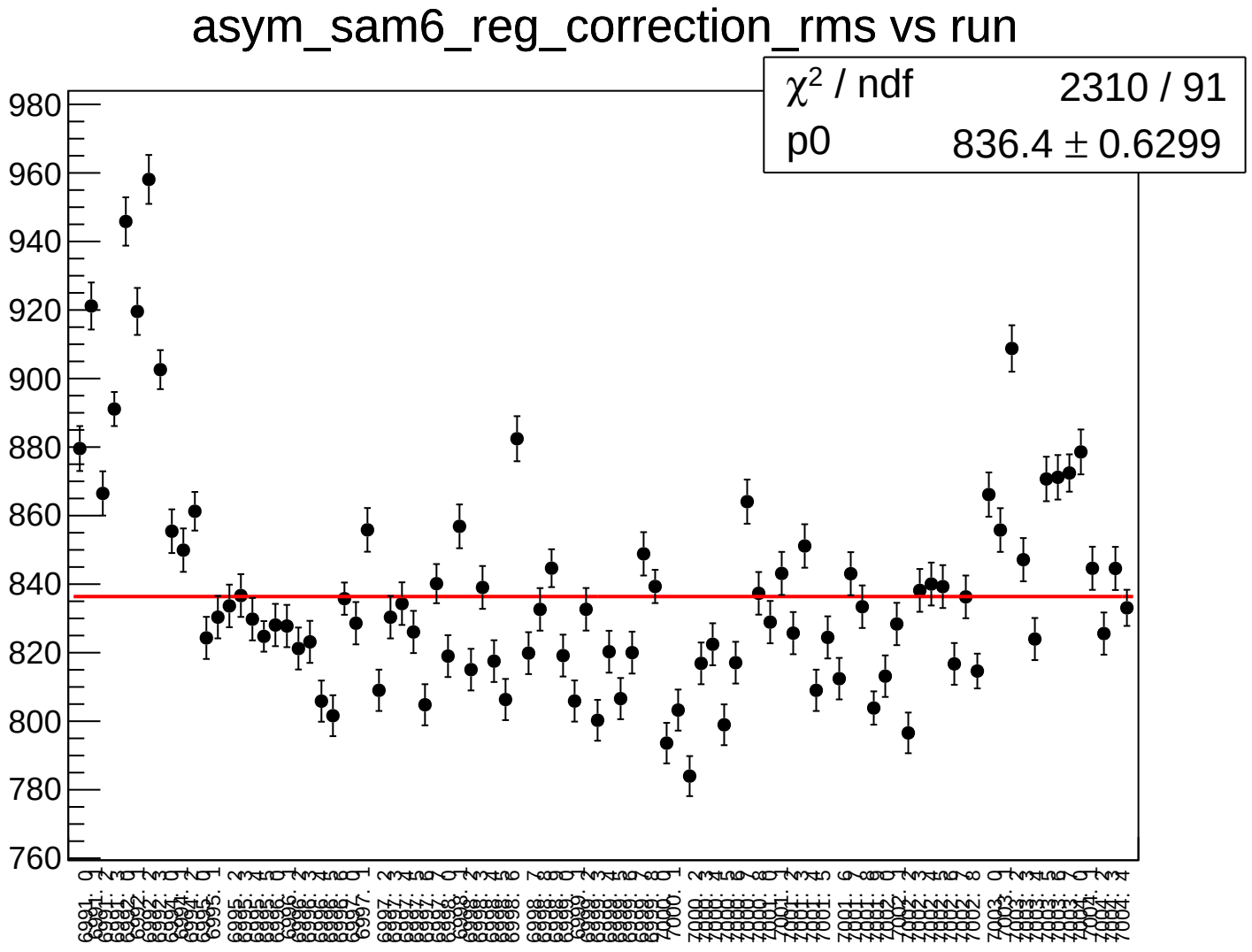

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.46 / 91
p0 6.027e−15 ± 9.675e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 92
Mean 40.1
Std Dev 33.79
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0776
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

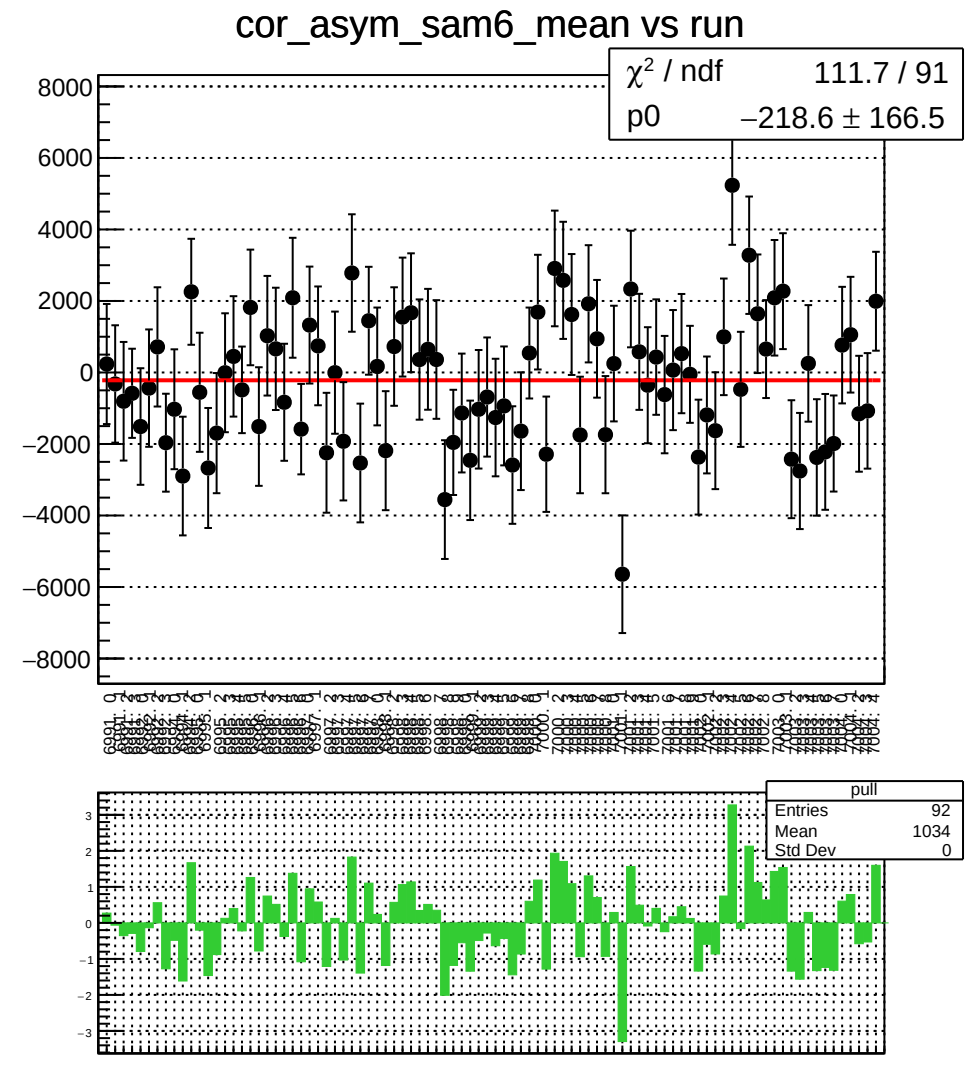

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.218e+05 / 91
p0 7.316e−12 ± 6.842e−15
45
40
35
30
25
20
15
10
5

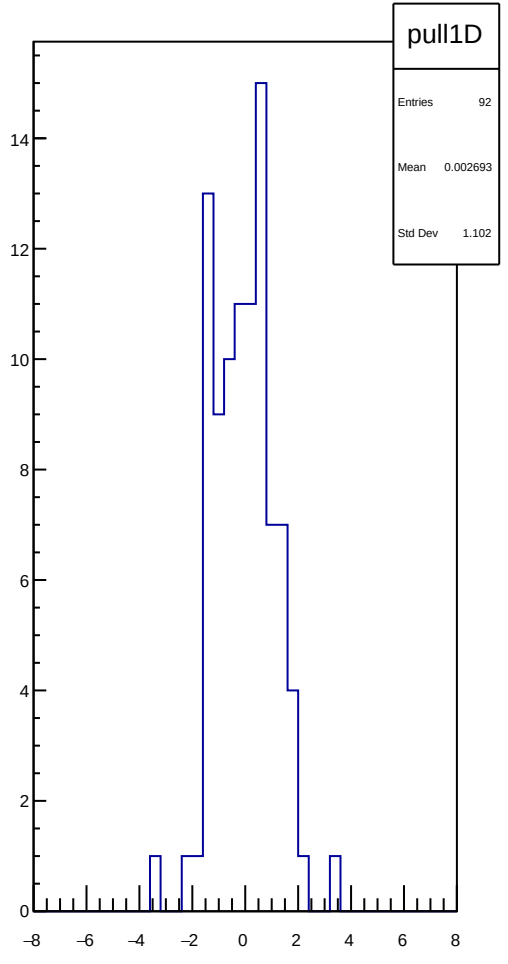

reg_asym_sam6_mean vs run
χ² / ndf 111.7 / 91
p0 −218.6 ± 166.5
pull
Entries 92
Mean 1032
Std Dev 0
pull1D
Entries 92
Mean 0.002697
Std Dev 1.102

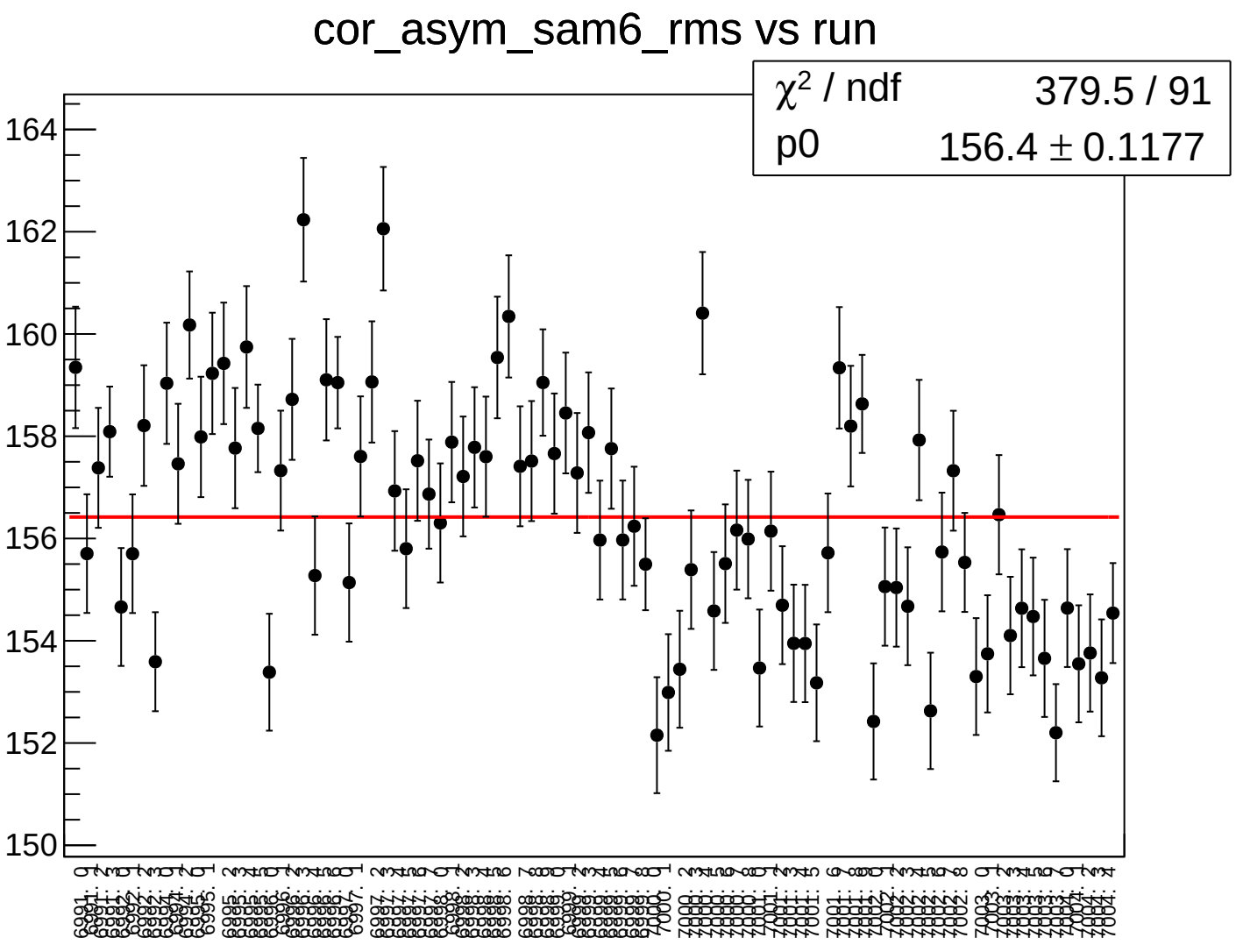

reg_asym_sam6_rms vs run
χ² / ndf 379.5 / 91
p0 156.4 ± 0.1177
164
162
160
158
156
154
152
150

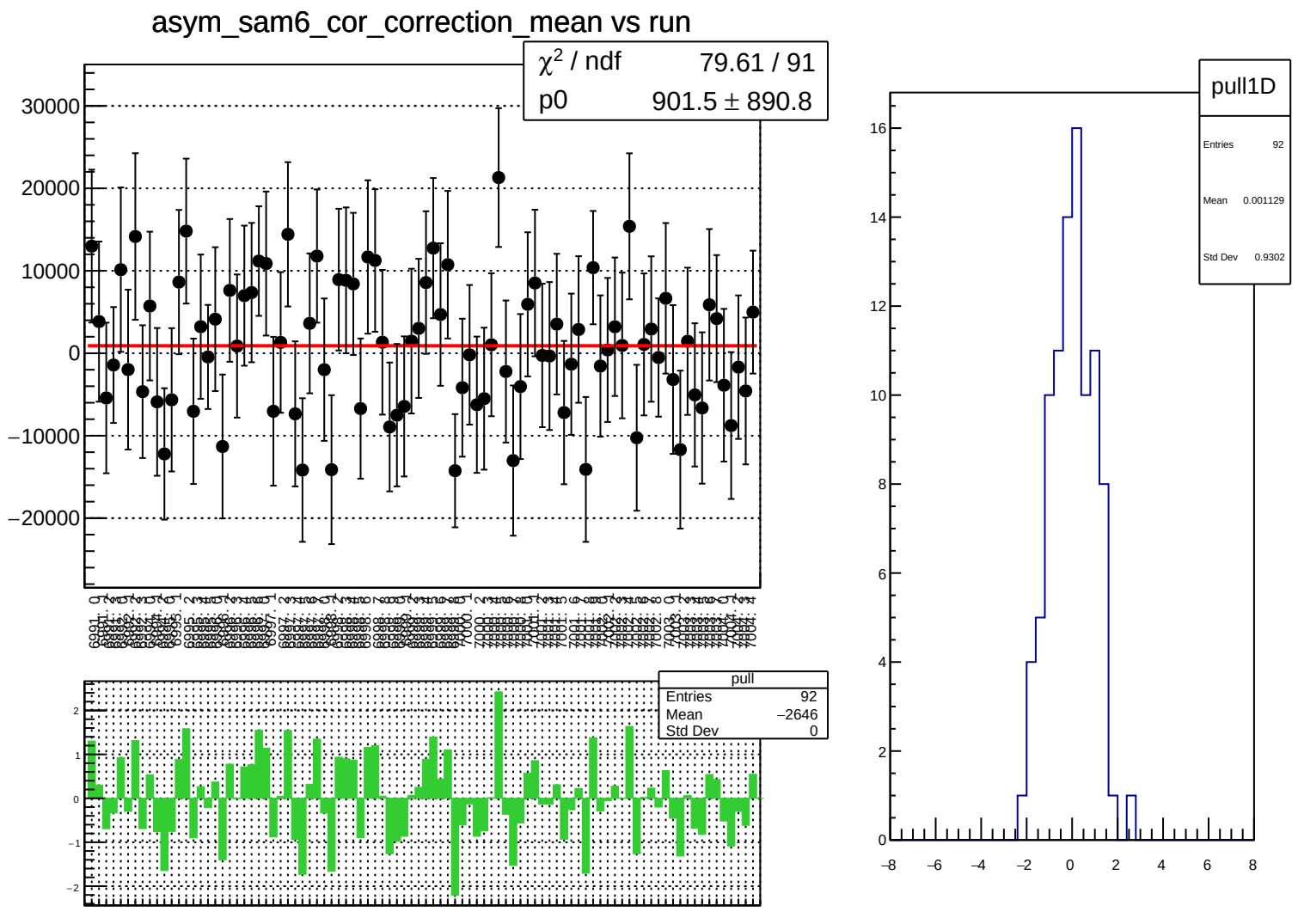

asym_sam6_reg_correction_mean vs run
χ² / ndf 79.61 / 91
p0 901.5 ± 890.8
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −2644
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00113
Std Dev 0.9302
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

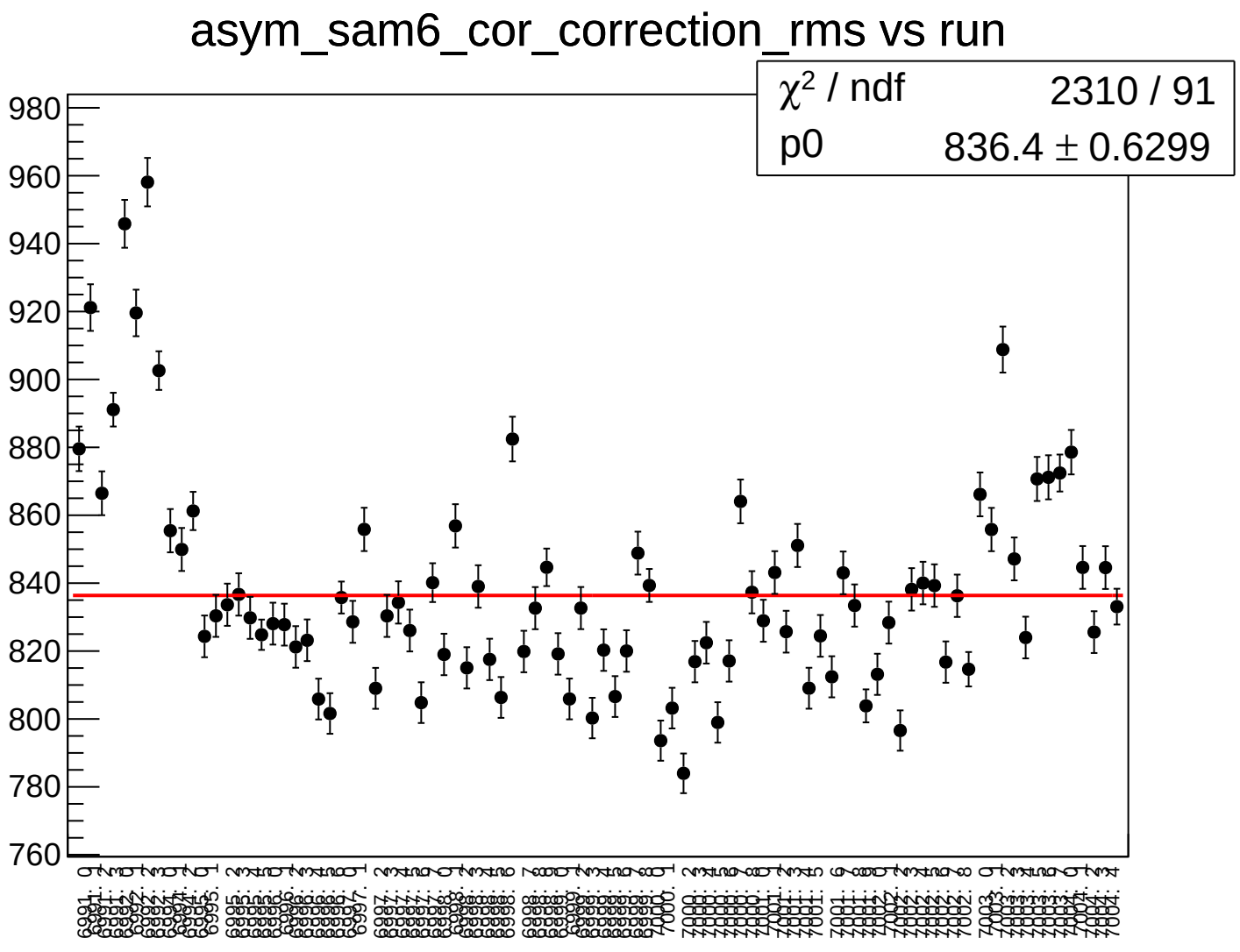

asym_sam6_reg_correction_rms vs run
χ² / ndf 2310 / 91
p0 836.4 ± 0.6299
980
960
940
920
900
880
860
840
820
800
780
760

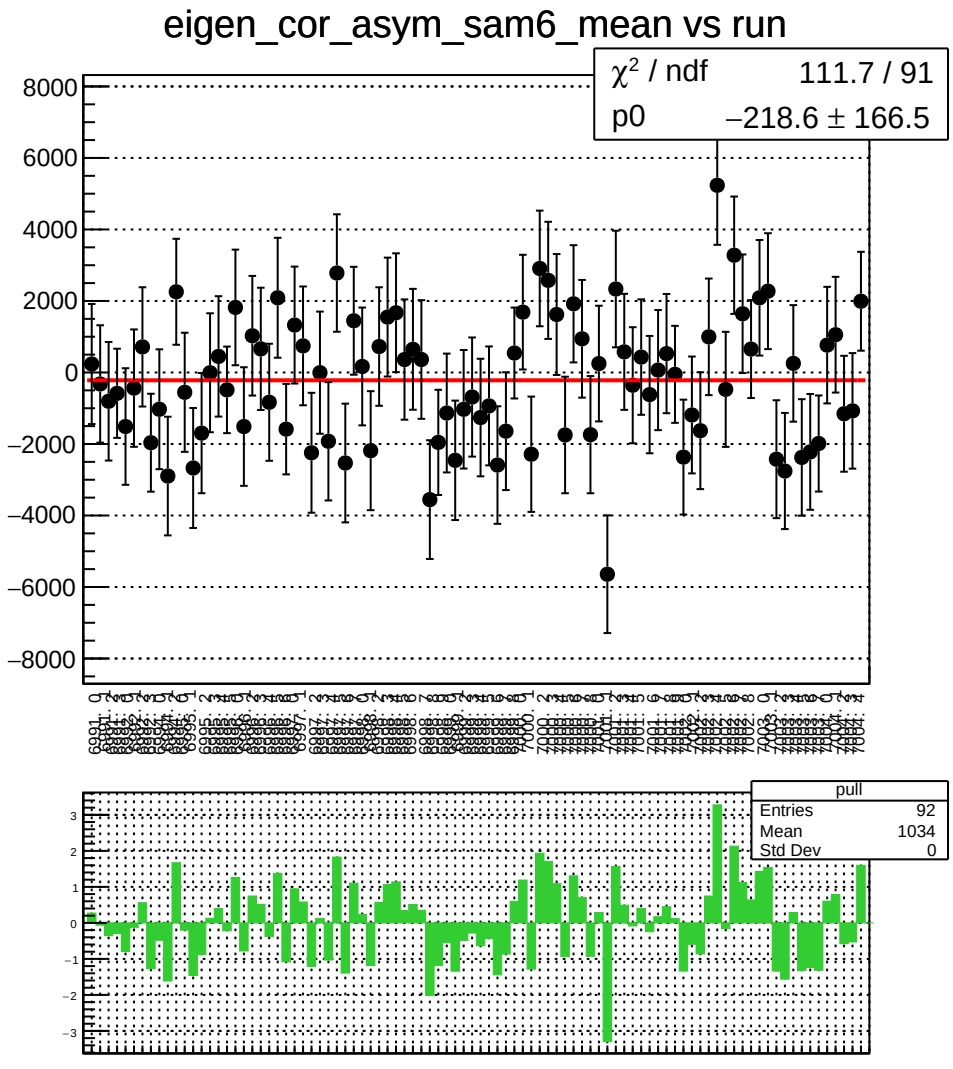

cor_asym_sam6_mean vs run
χ² / ndf 111.7 / 91
p0 −218.6 ± 166.5
pull
Entries 92
Mean 1034
Std Dev 0

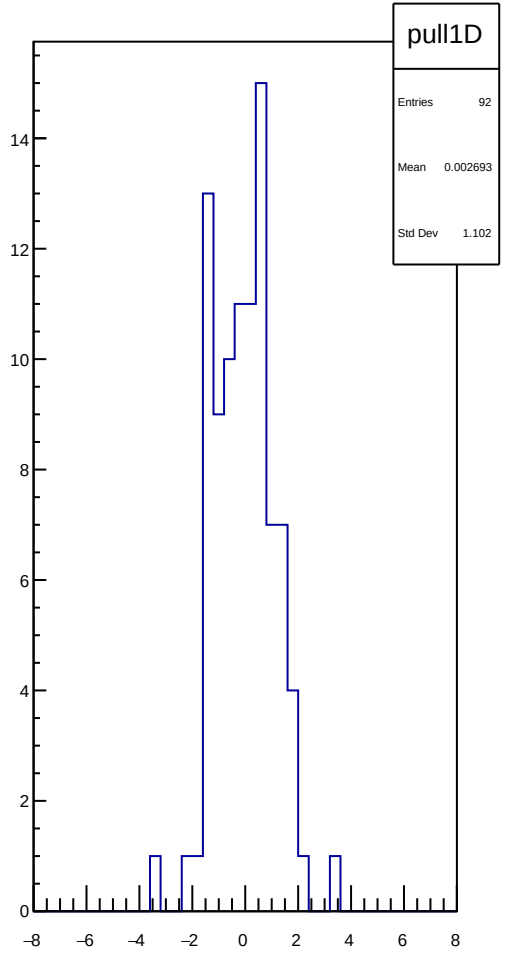

pull1D
Entries 92
Mean 0.002693
Std Dev 1.102

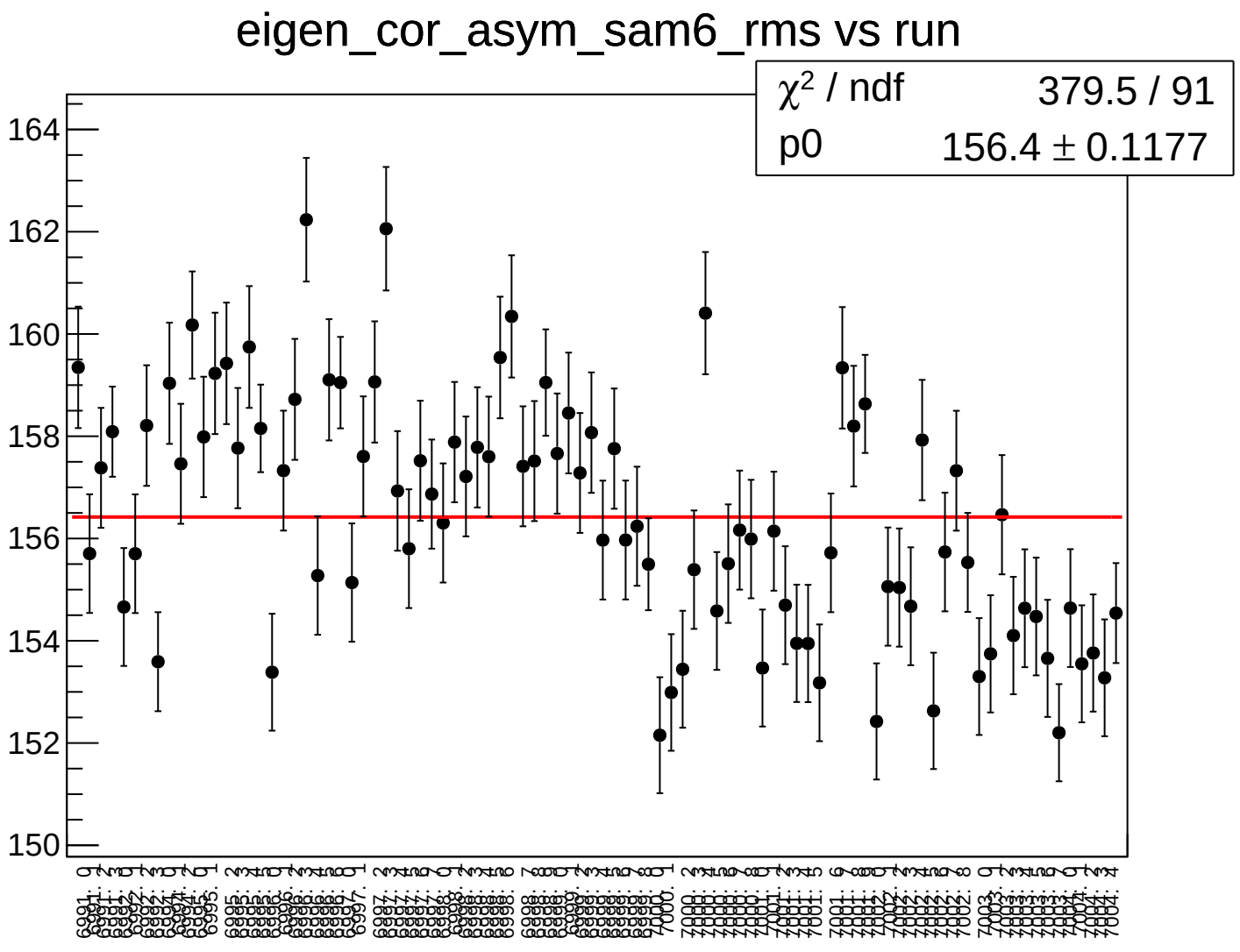

cor_asym_sam6_rms vs run
χ² / ndf 379.5 / 91
p0 156.4 ± 0.1177
164
162
160
158
156
154
152
150

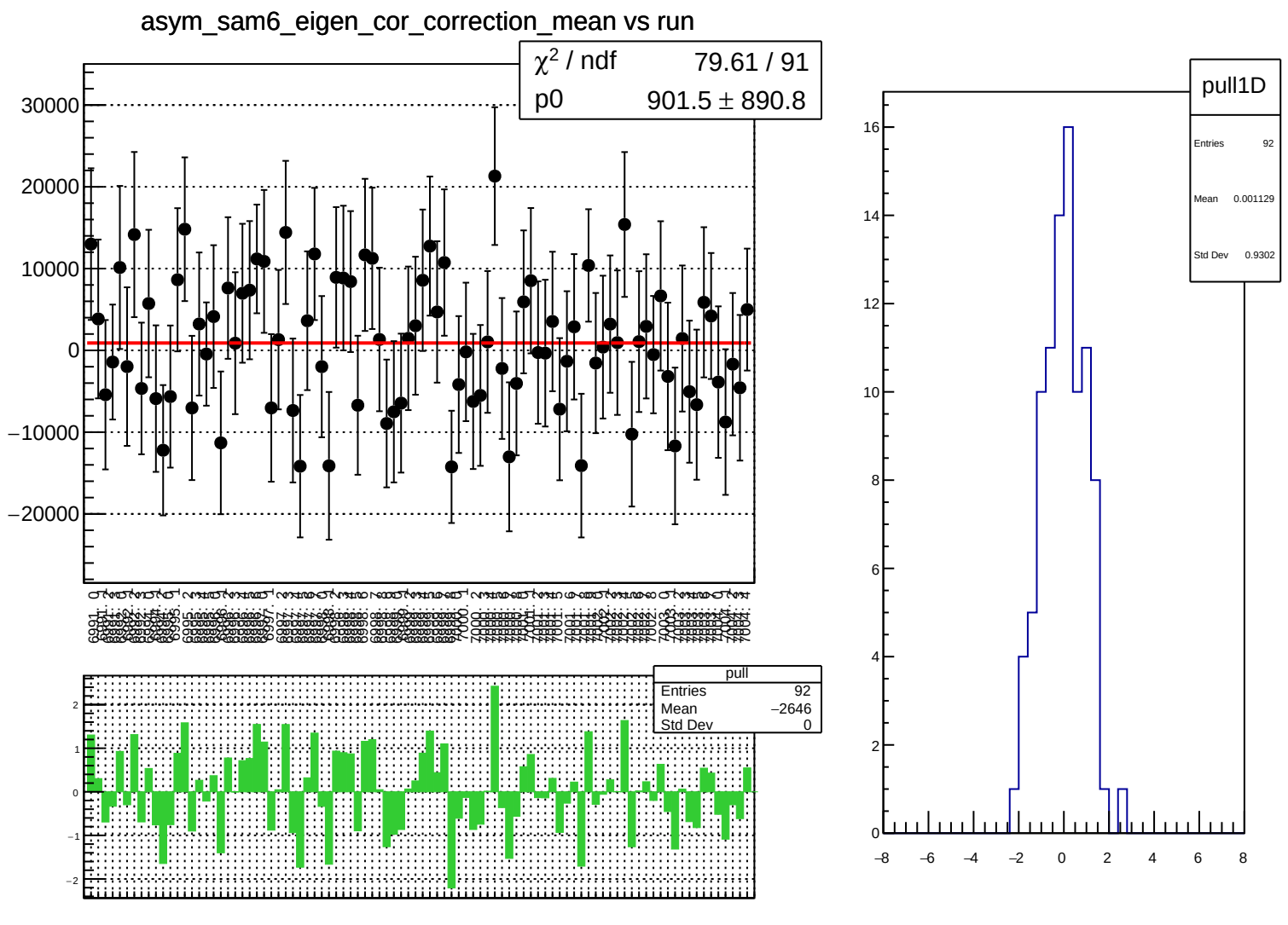

asym_sam6_cor_correction_mean vs run
χ² / ndf 79.61 / 91
p0 901.5 ± 890.8
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −2646
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001129
Std Dev 0.9302
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

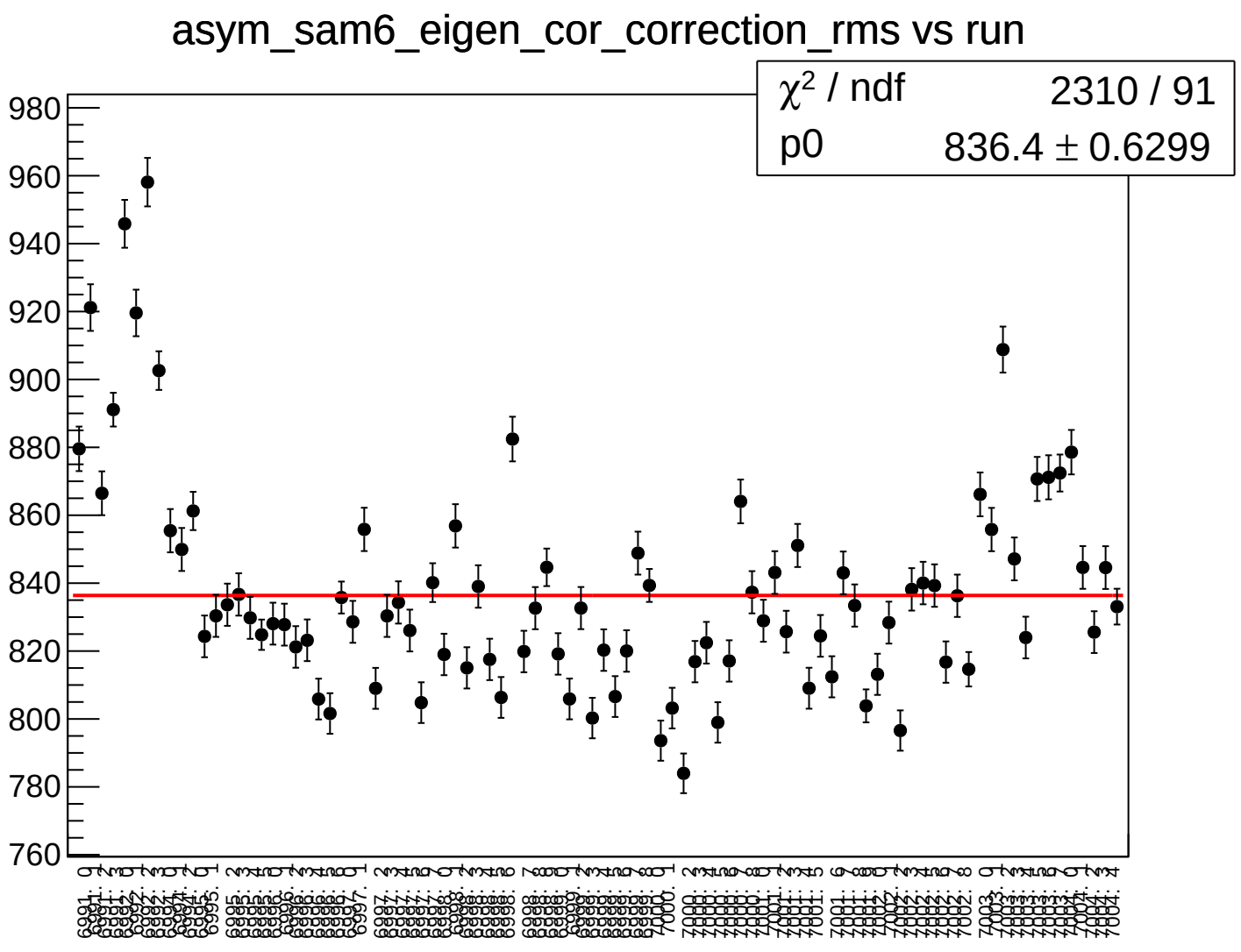

asym_sam6_cor_correction_rms vs run
χ² / ndf 2310 / 91
p0 836.4 ± 0.6299
980
960
940
920
900
880
860
840
820
800
780
760

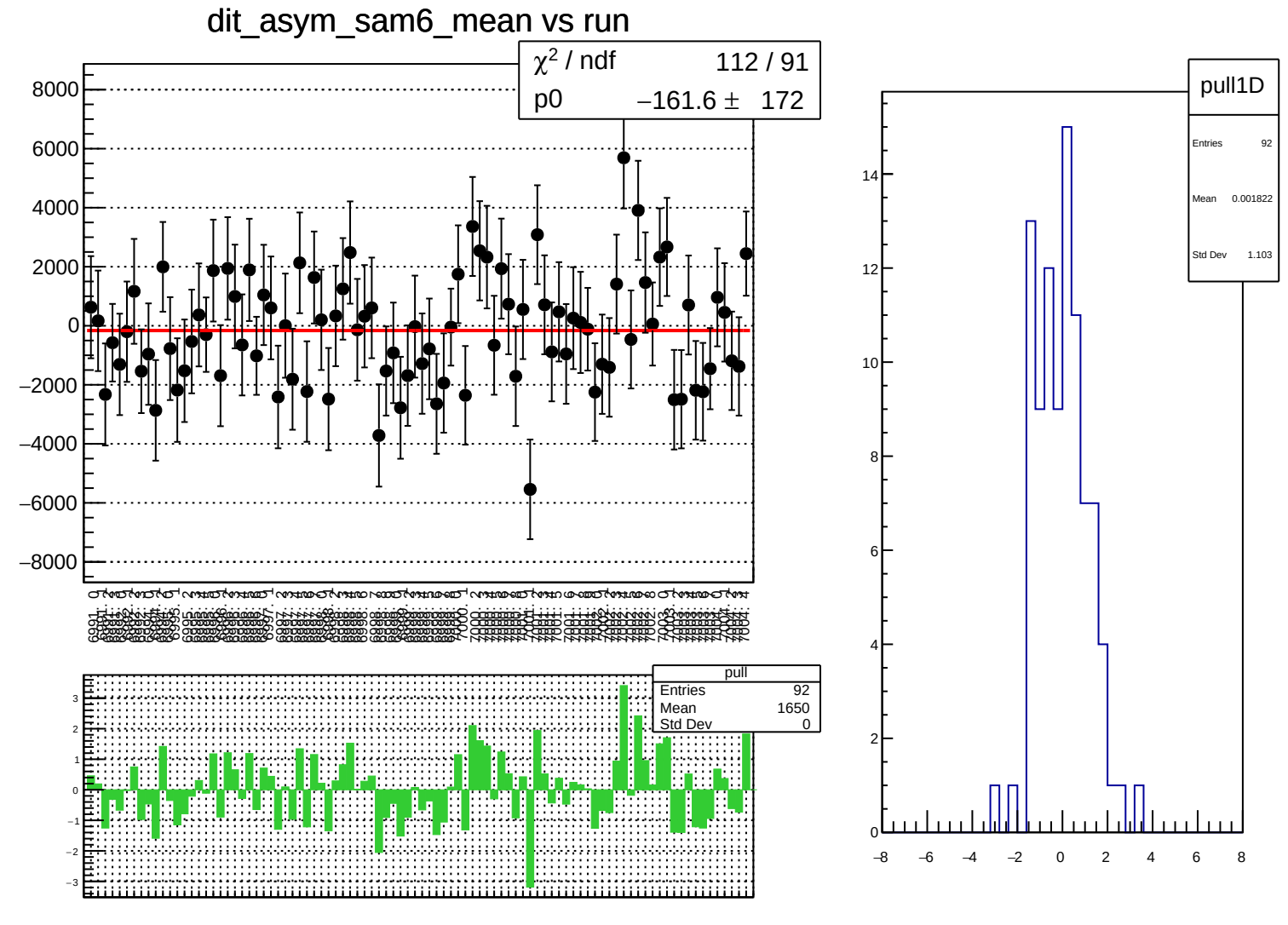

eigen_cor_asym_sam6_mean vs run
χ² / ndf 111.7 / 91
p0 −218.6 ± 166.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean 1034
Std Dev 0
3
2
1
0
−1
−2
−3

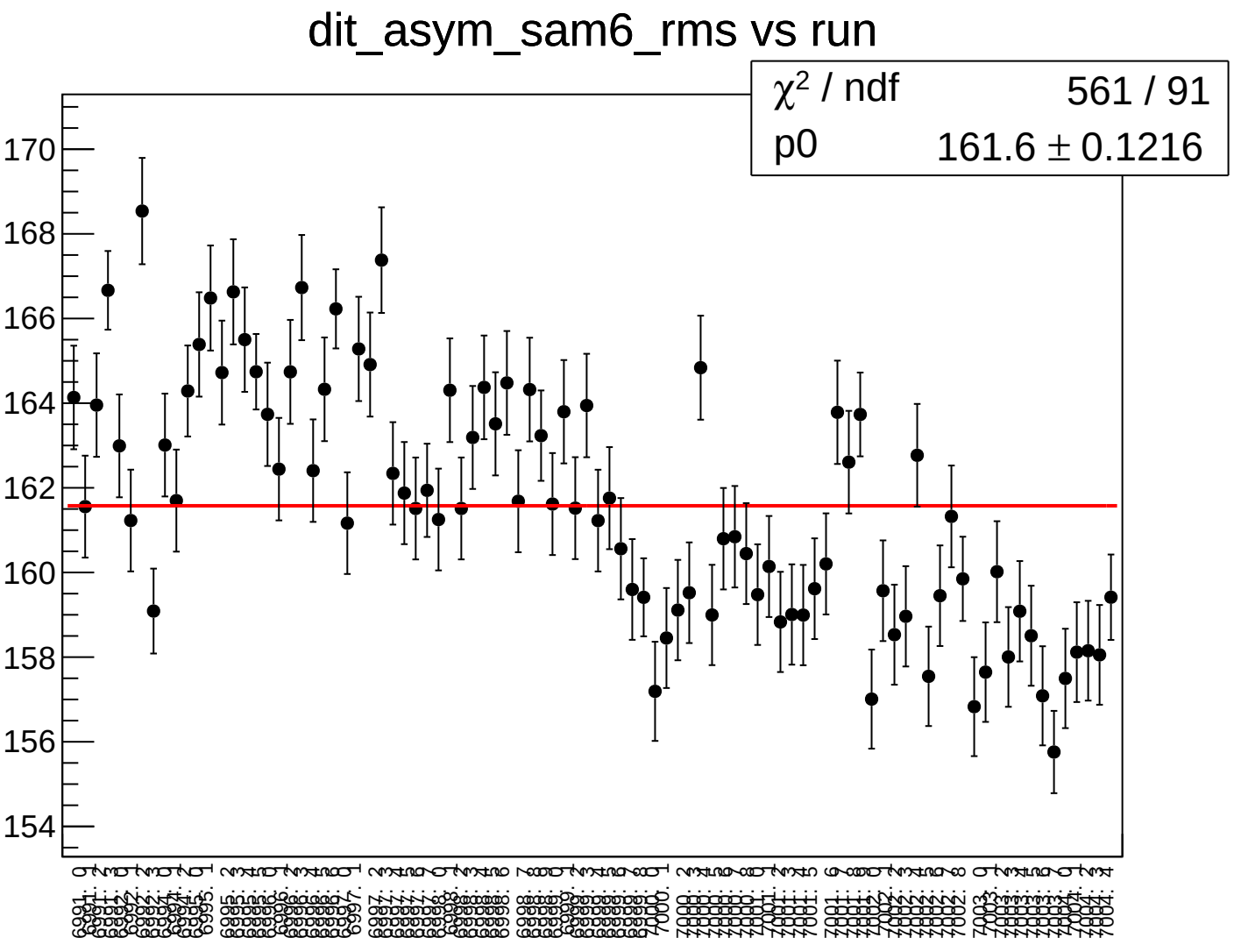

pull1D
Entries 92
Mean 0.002693
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

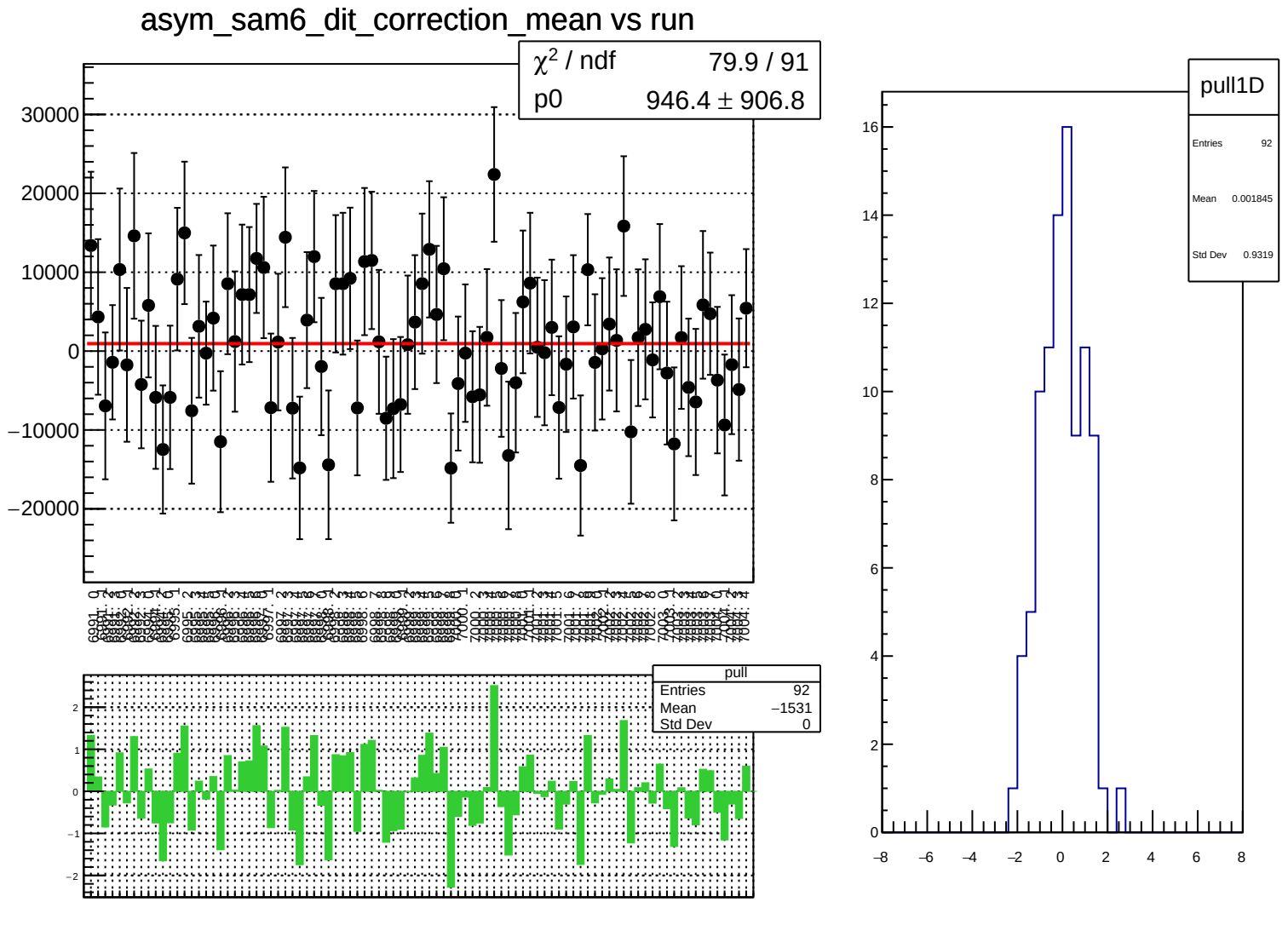

eigen_cor_asym_sam6_rms vs run
χ² / ndf 379.5 / 91
p0 156.4 ± 0.1177
164
162
160
158
156
154
152
150

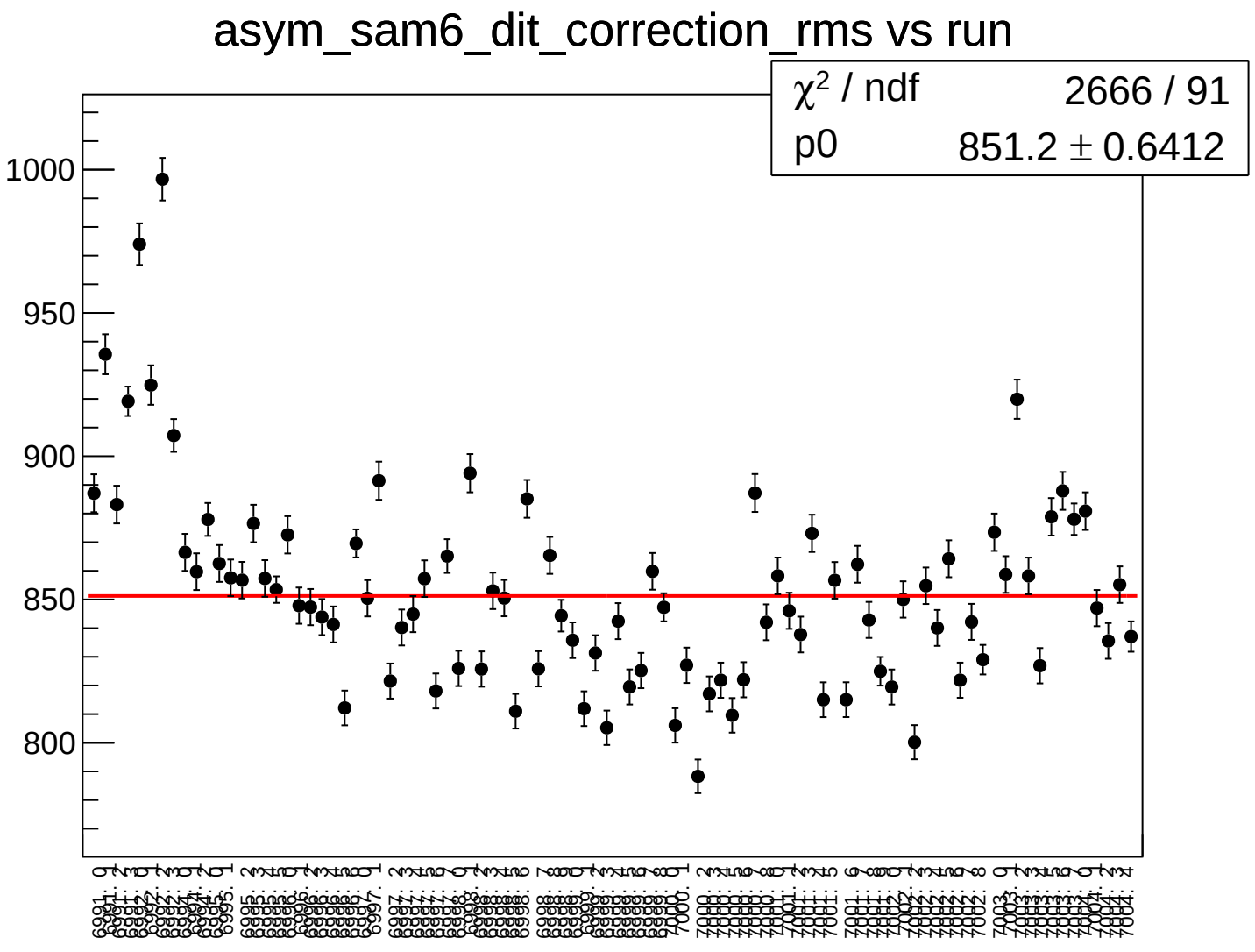

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 79.61 / 91
p0 901.5 ± 890.8
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −2646
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001129
Std Dev 0.9302
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

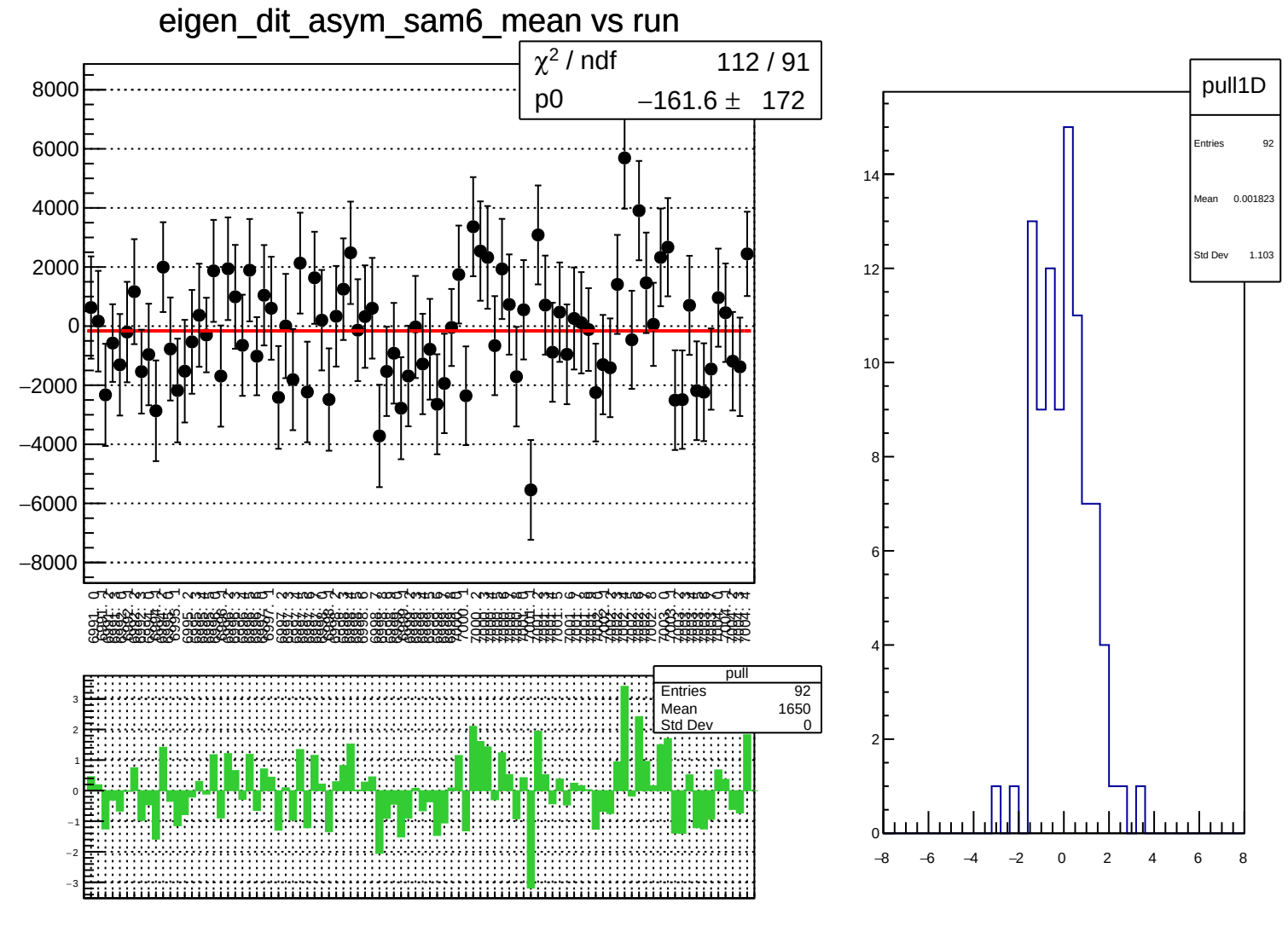

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 2310 / 91
p0 836.4 ± 0.6299
980
960
940
920
900
880
860
840
820
800
780
760

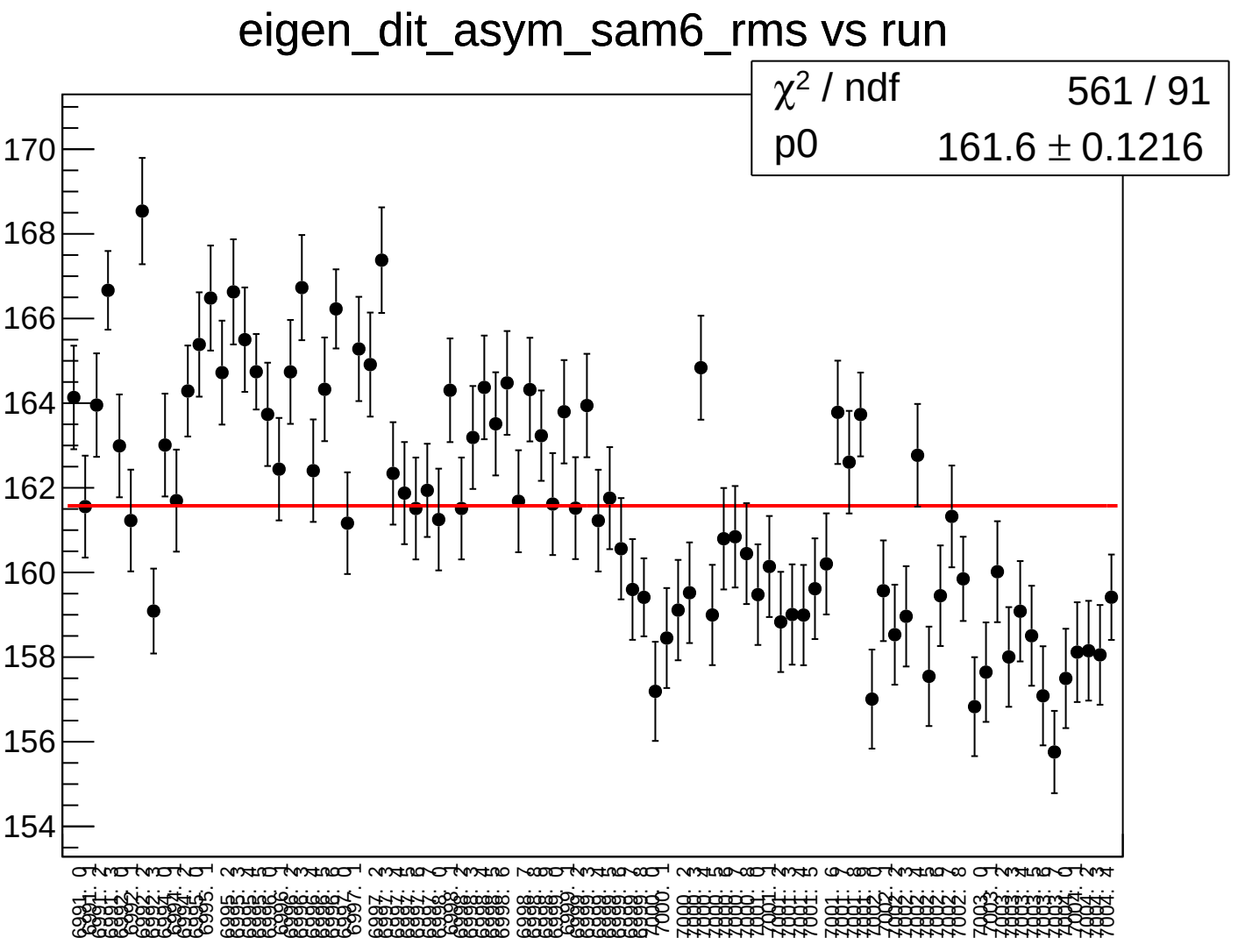

dit_asym_sam6_mean vs run
χ² / ndf 112 / 91
p0 −161.6 ± 172
pull
Entries 92
Mean 1650
Std Dev 0
pull1D
Entries 92
Mean 0.001822
Std Dev 1.103

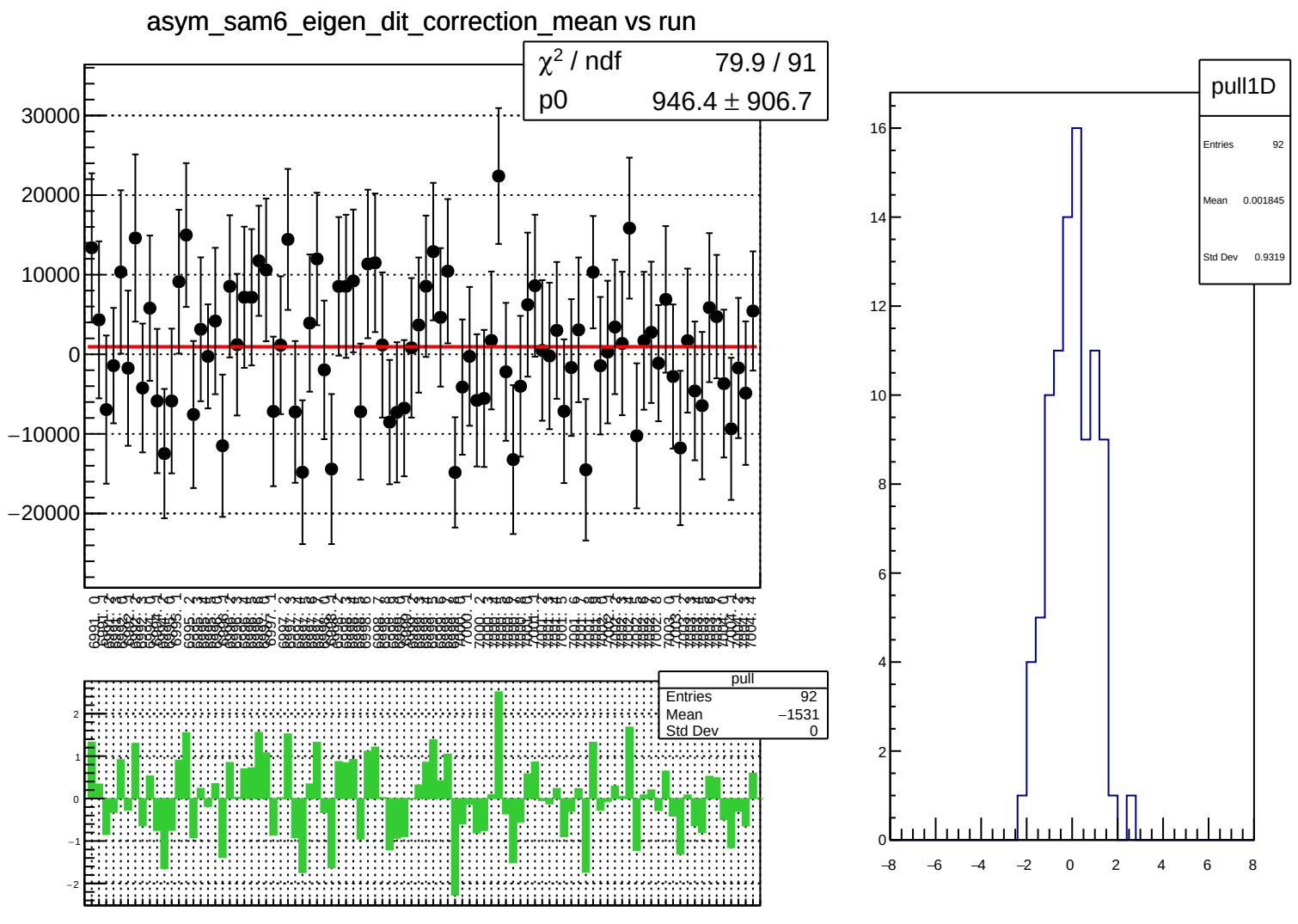

dit_asym_sam6_rms vs run
χ² / ndf 561 / 91
p0 161.6 ± 0.1216
170
168
166
164
162
160
158
156
154

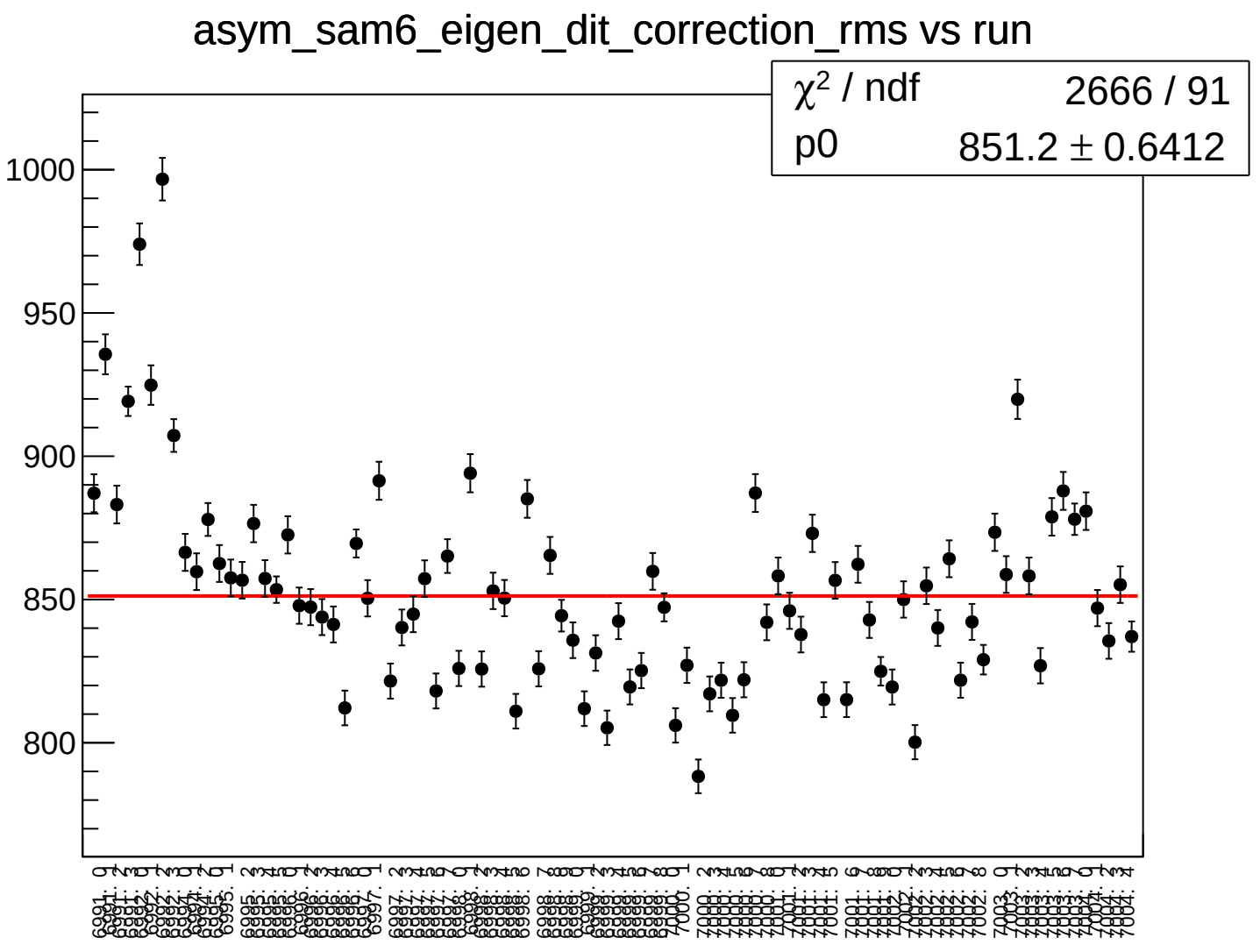

asym_sam6_dit_correction_mean vs run
χ² / ndf 79.9 / 91
p0 946.4 ± 906.8
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1531
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001845
Std Dev 0.9319
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

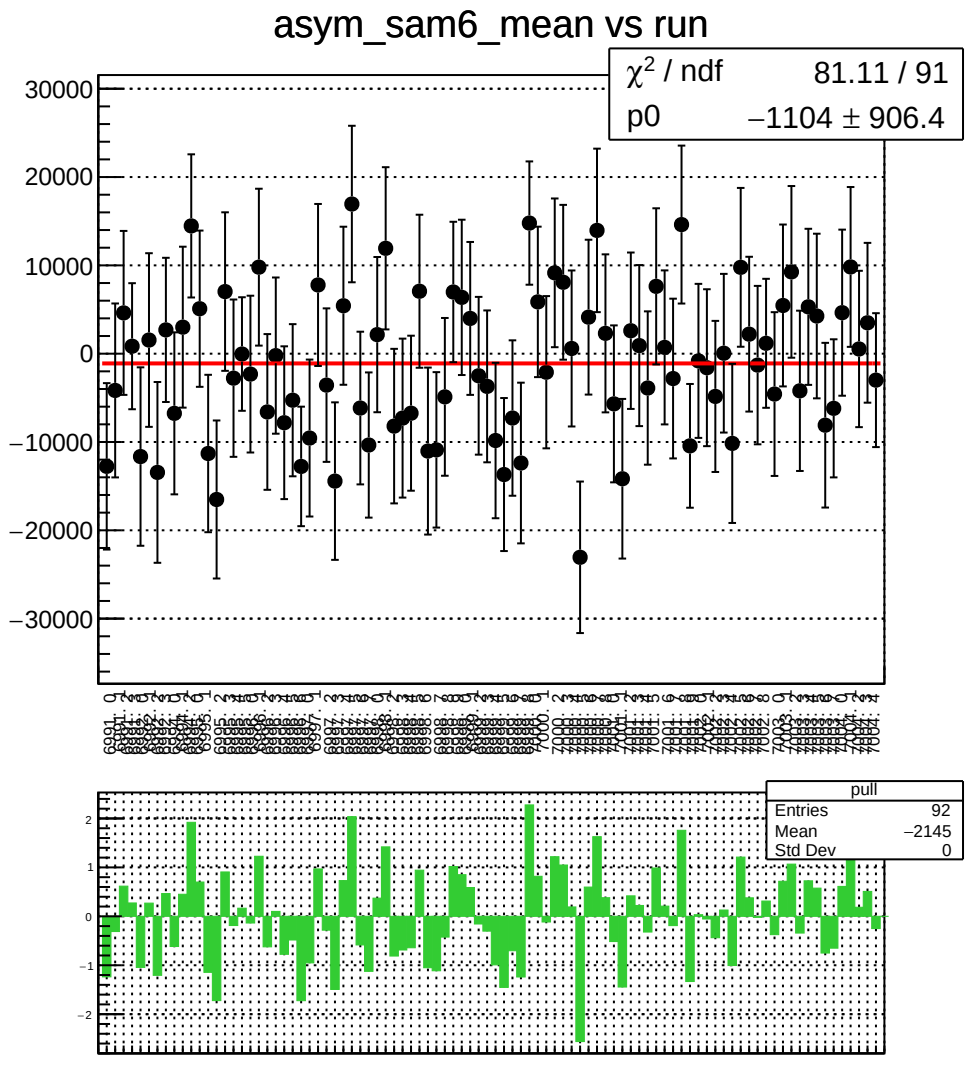

asym_sam6_dit_correction_rms vs run
χ² / ndf 2666 / 91
p0 851.2 ± 0.6412
1000
950
900
850
800

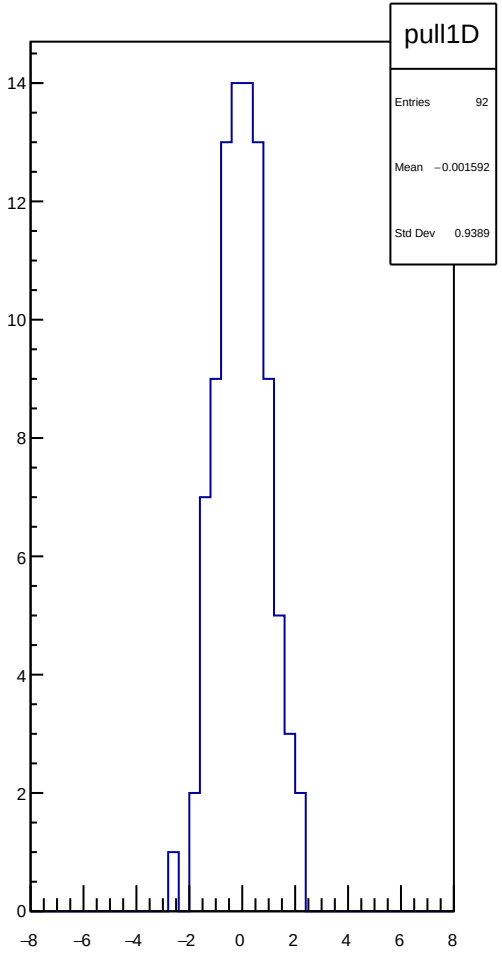

eigen_dit_asym_sam6_mean vs run
χ² / ndf 112 / 91
p0 −161.6 ± 172
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean 1650
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.001823
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam6_rms vs run
χ² / ndf 561 / 91
p0 161.6 ± 0.1216
170
168
166
164
162
160
158
156
154


asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 79.9 / 91
p0 946.4 ± 906.7
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1531
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001845
Std Dev 0.9319
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 2666 / 91
p0 851.2 ± 0.6412
1000
950
900
850
800


asym_sam6_mean vs run
χ² / ndf 81.11 / 91
p0 −1104 ± 906.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −2145
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean −0.001592
Std Dev 0.9389
14
12
10
8
6
4
2
0
−8
−6
−4
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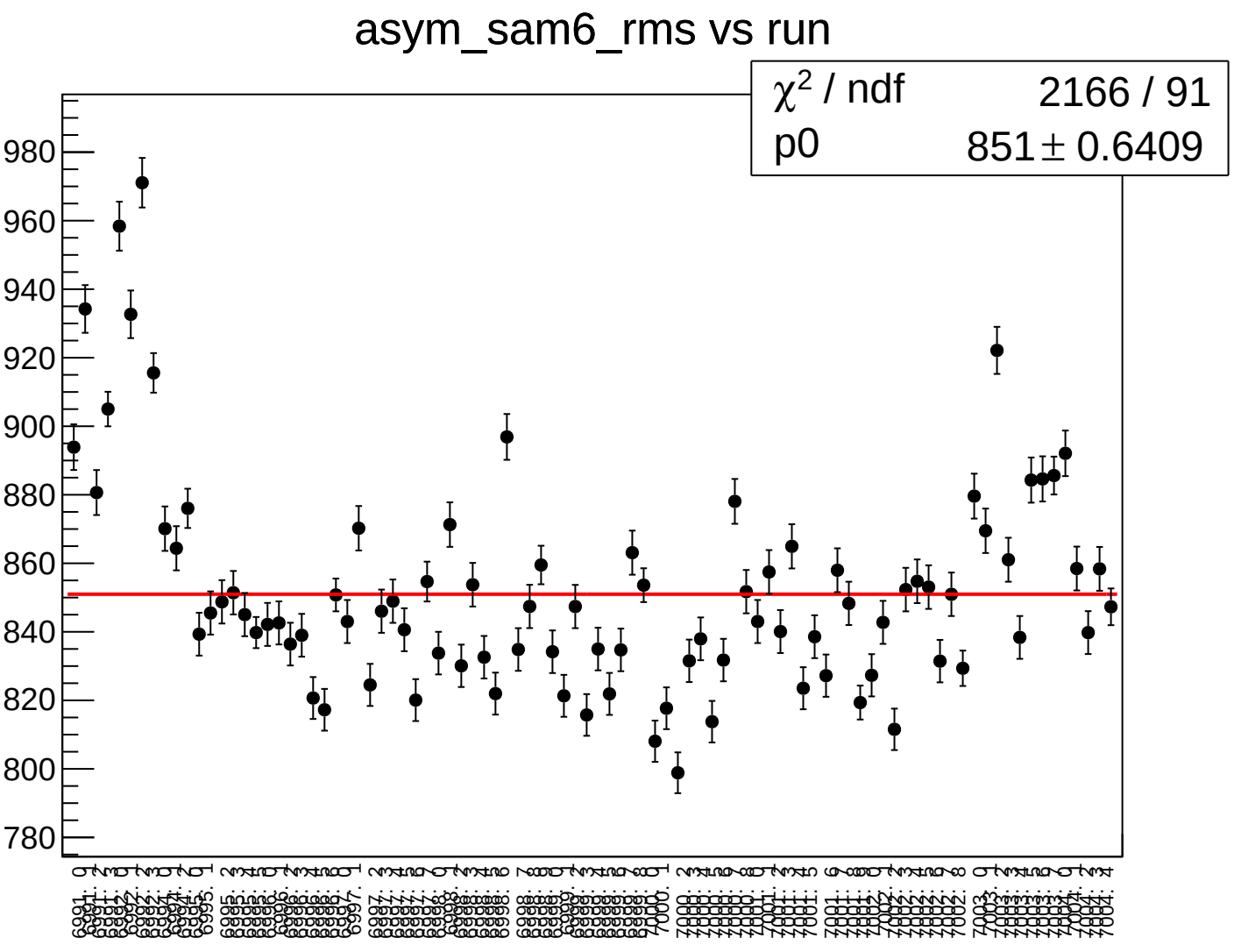
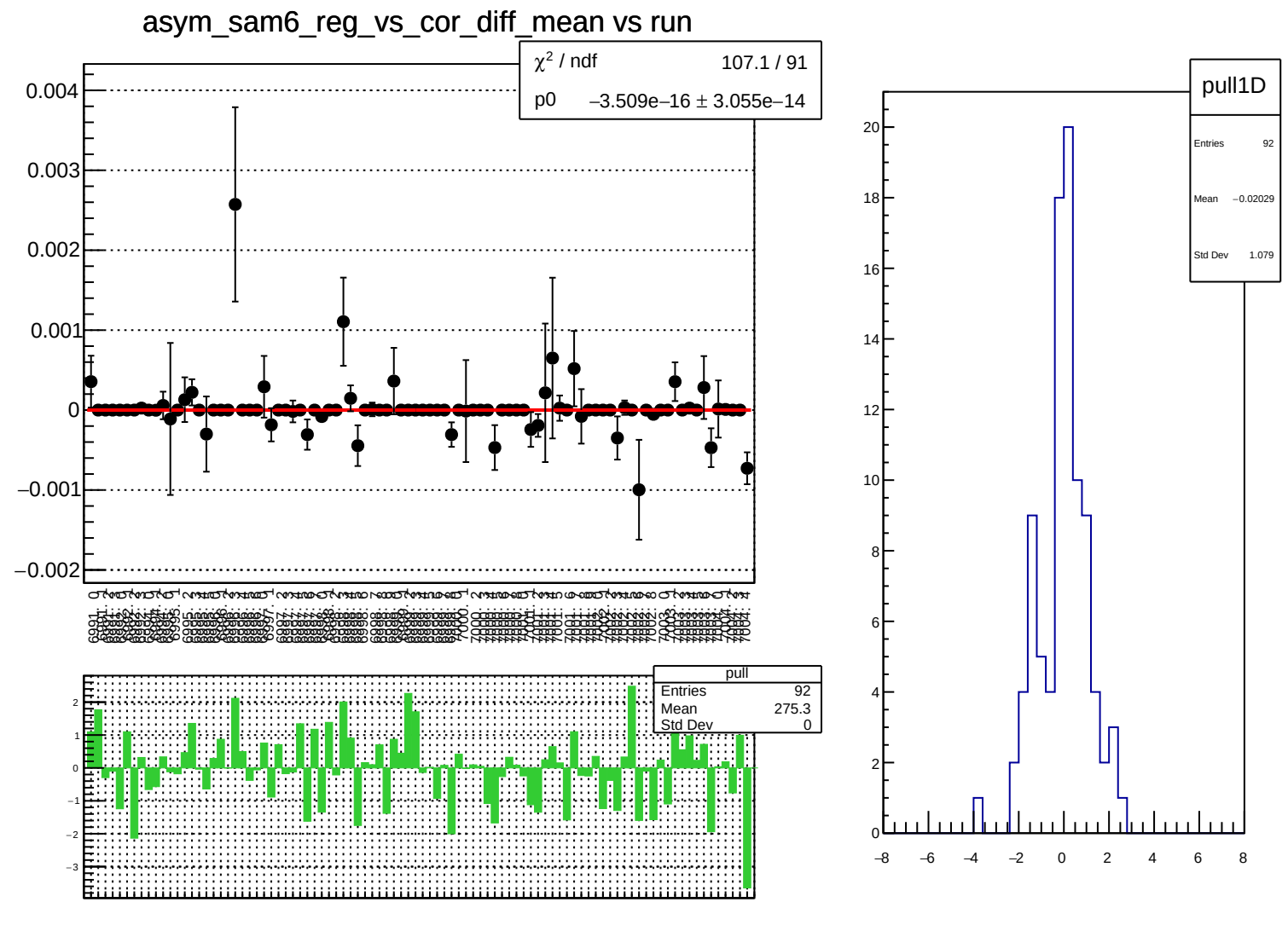
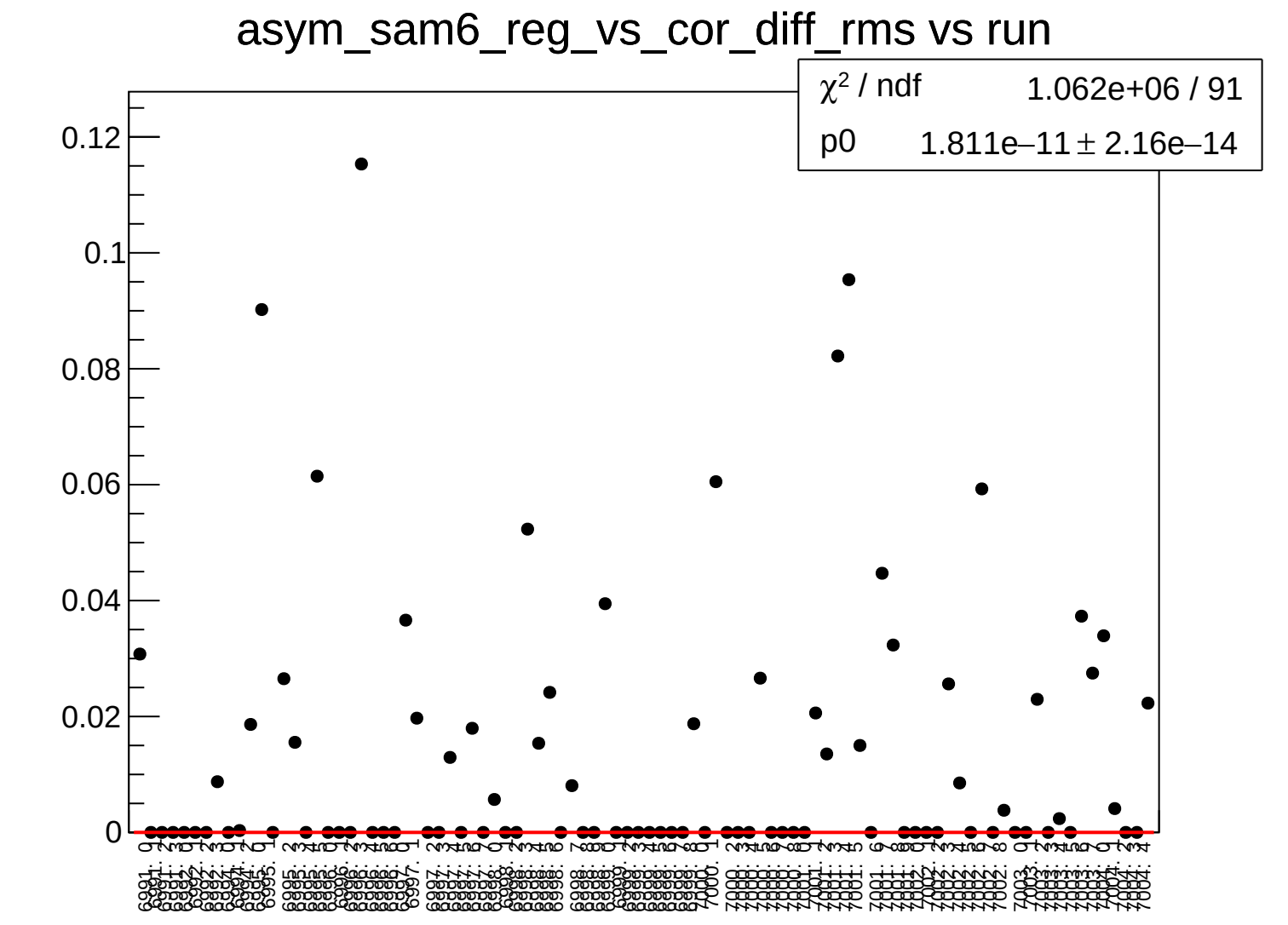
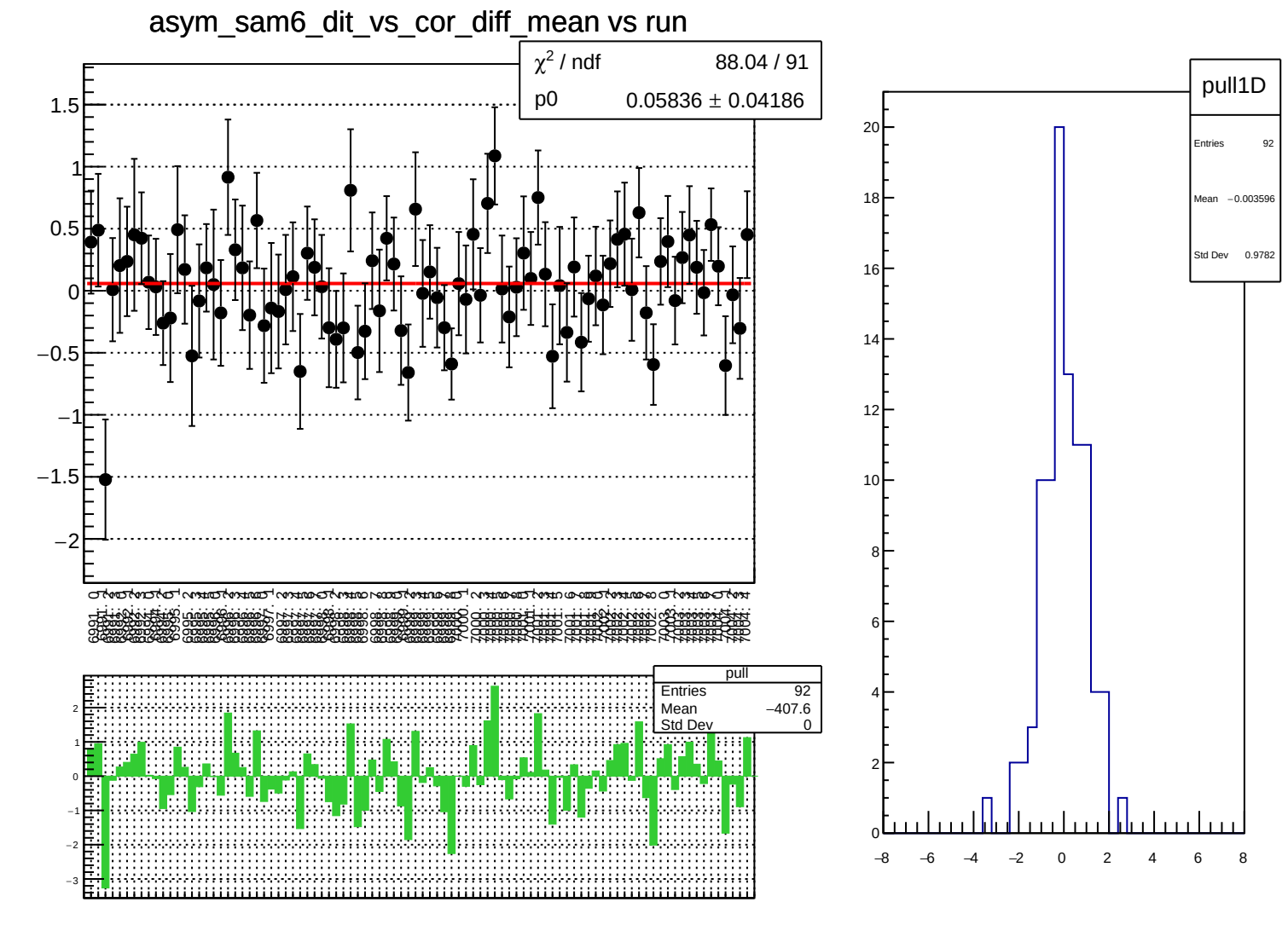
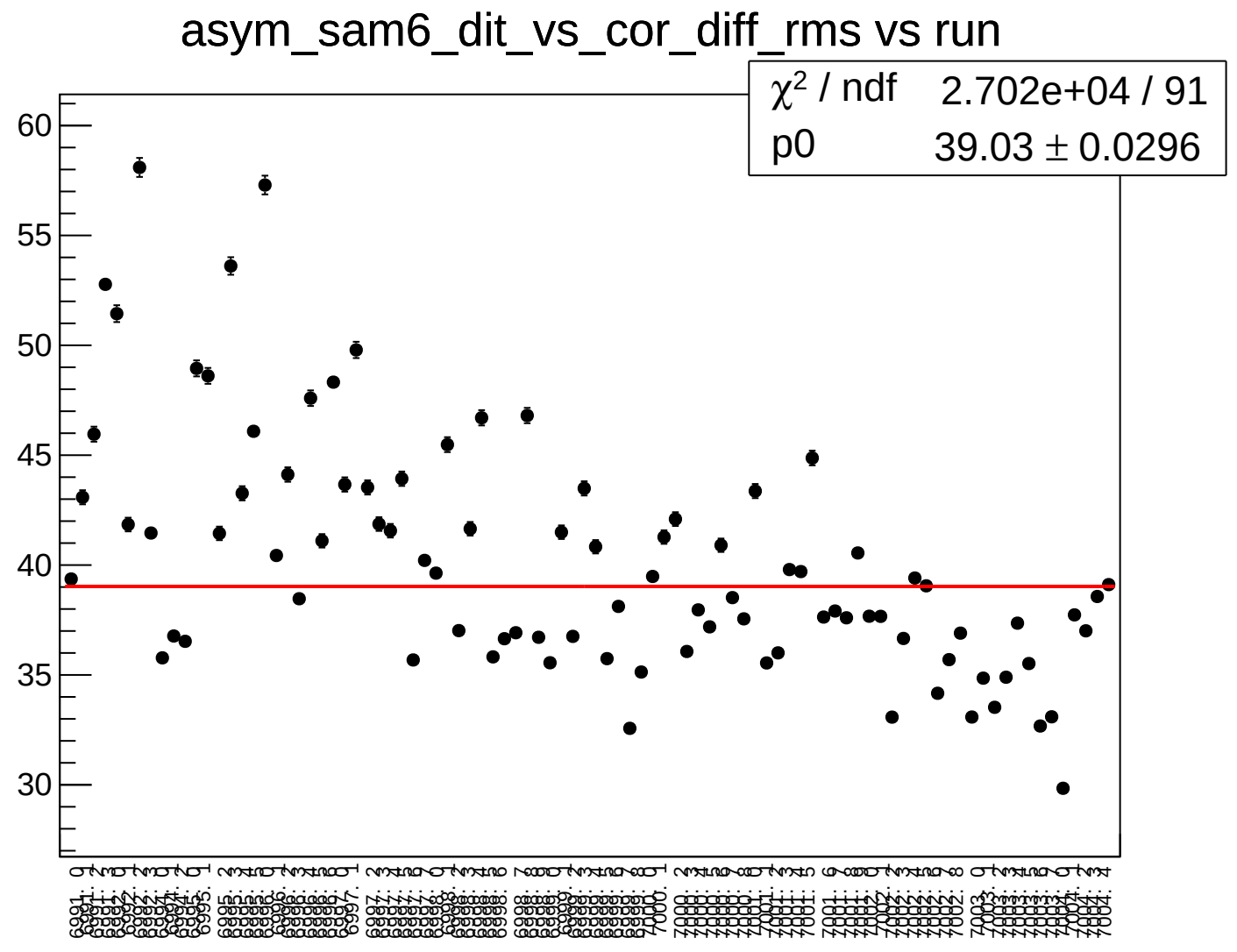
0
2
4
6
8

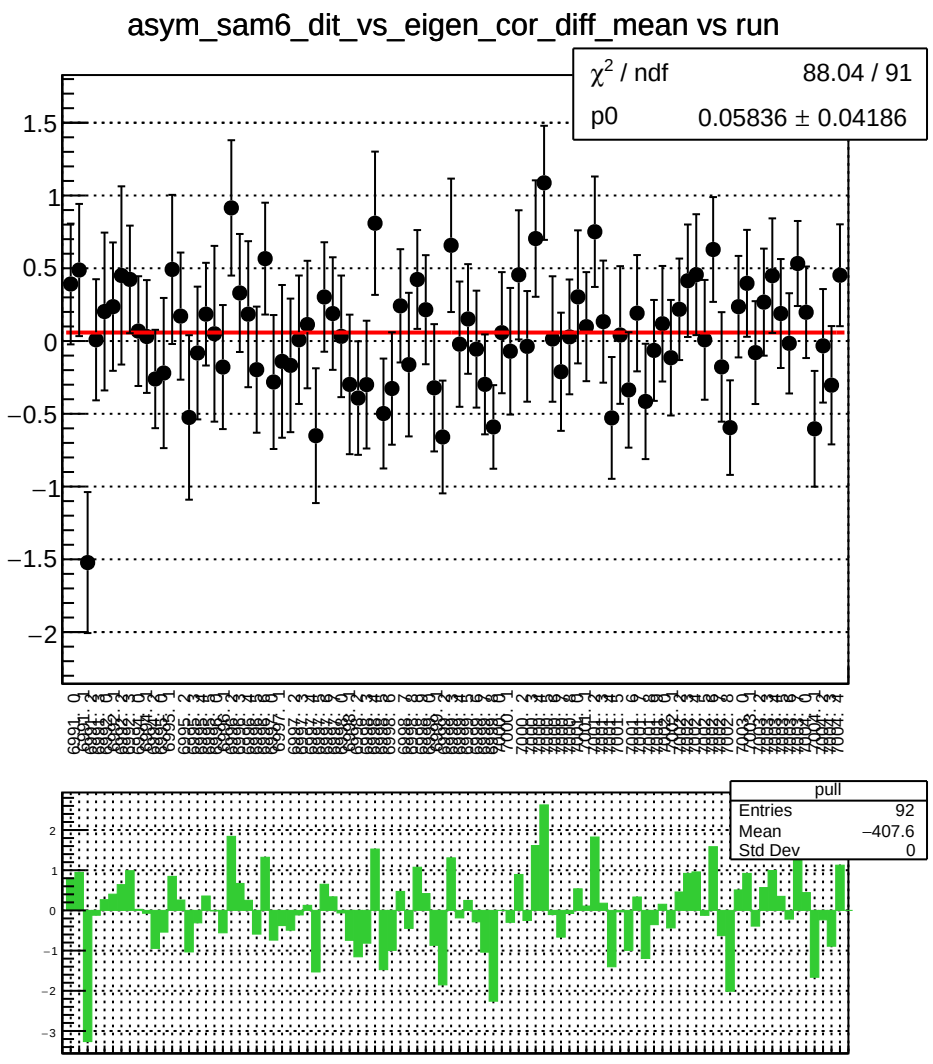

asym_sam6_rms vs run
χ^2 / ndf 2166 / 91
p0 851 ± 0.6409
980
960
940
920
900
880
860
840
820
800
780

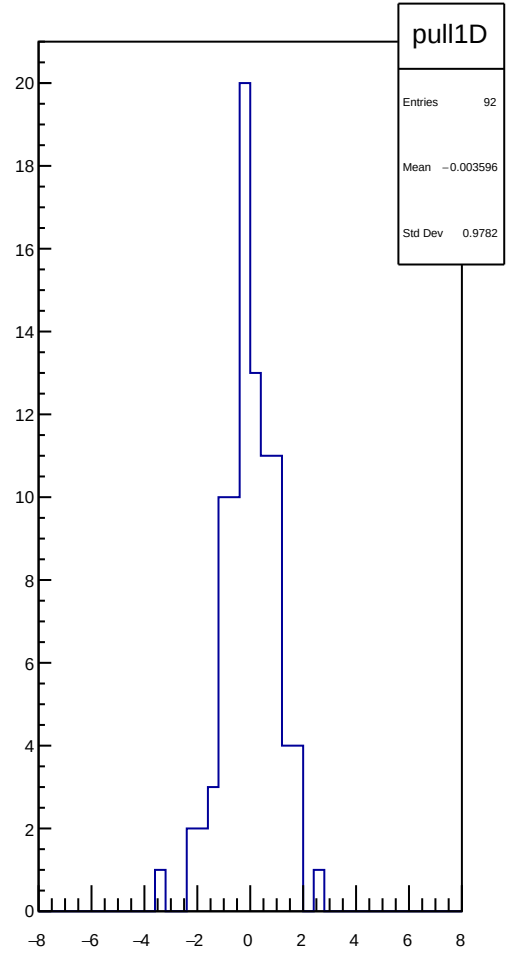

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 91
p0 −3.509e−16 ± 3.055e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 92
Mean 275.3
Std Dev 0
pull1D
Entries 92
Mean −0.02029
Std Dev 1.079

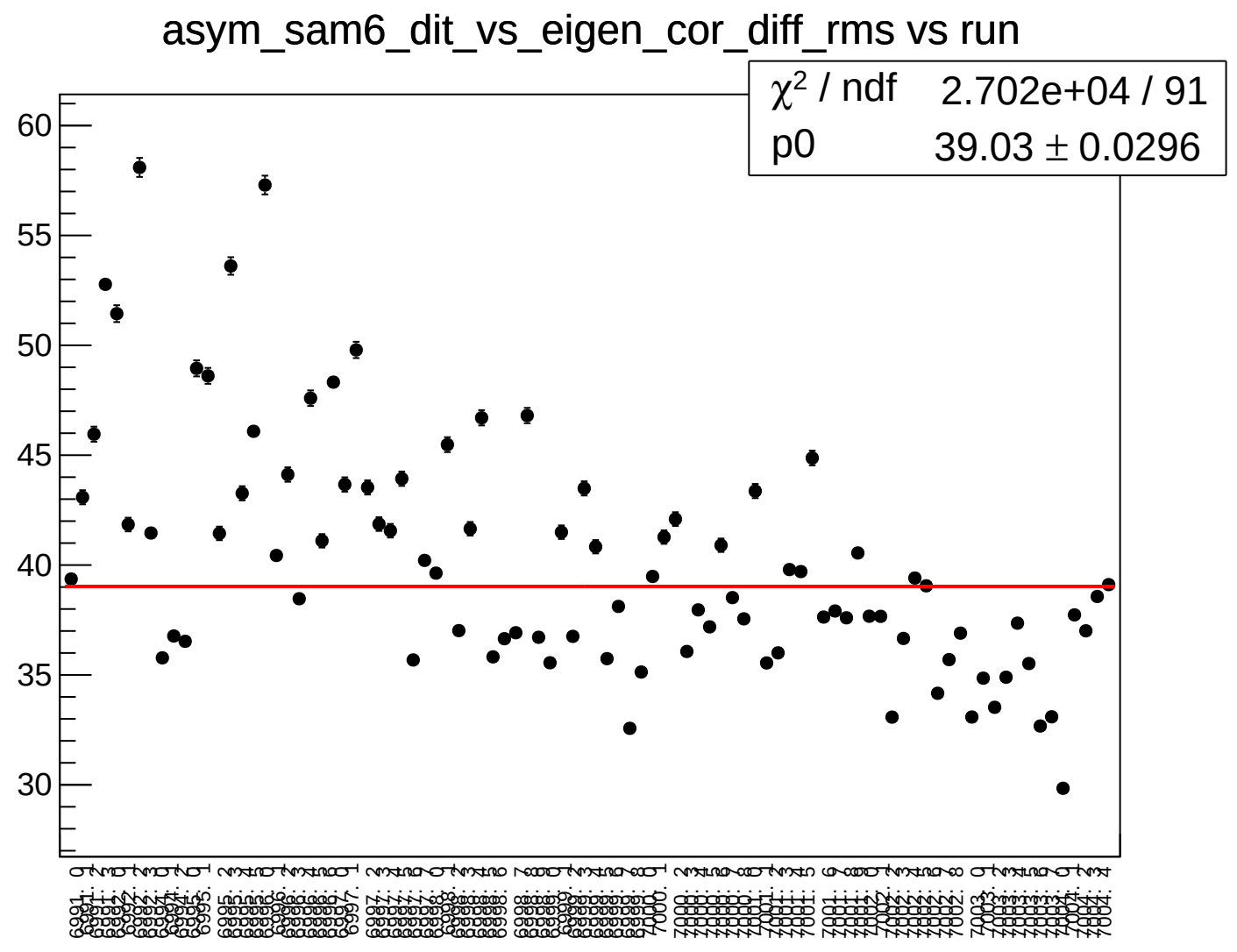

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 91
p0 1.811e−11 ± 2.16e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

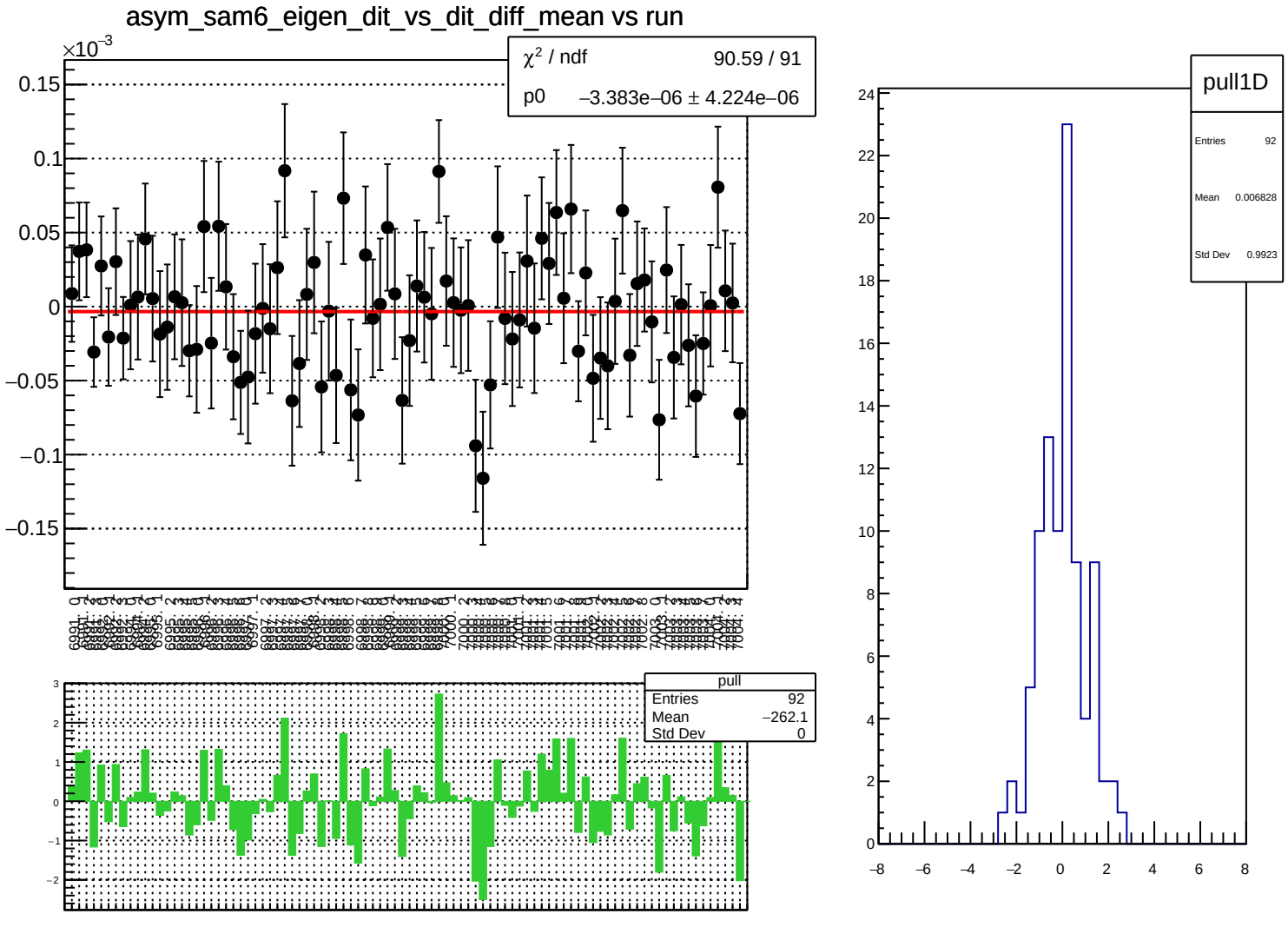

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 88.04 / 91
p0 0.05836 ± 0.04186
pull
Entries 92
Mean −407.6
Std Dev 0
pull1D
Entries 92
Mean −0.003596
Std Dev 0.9782

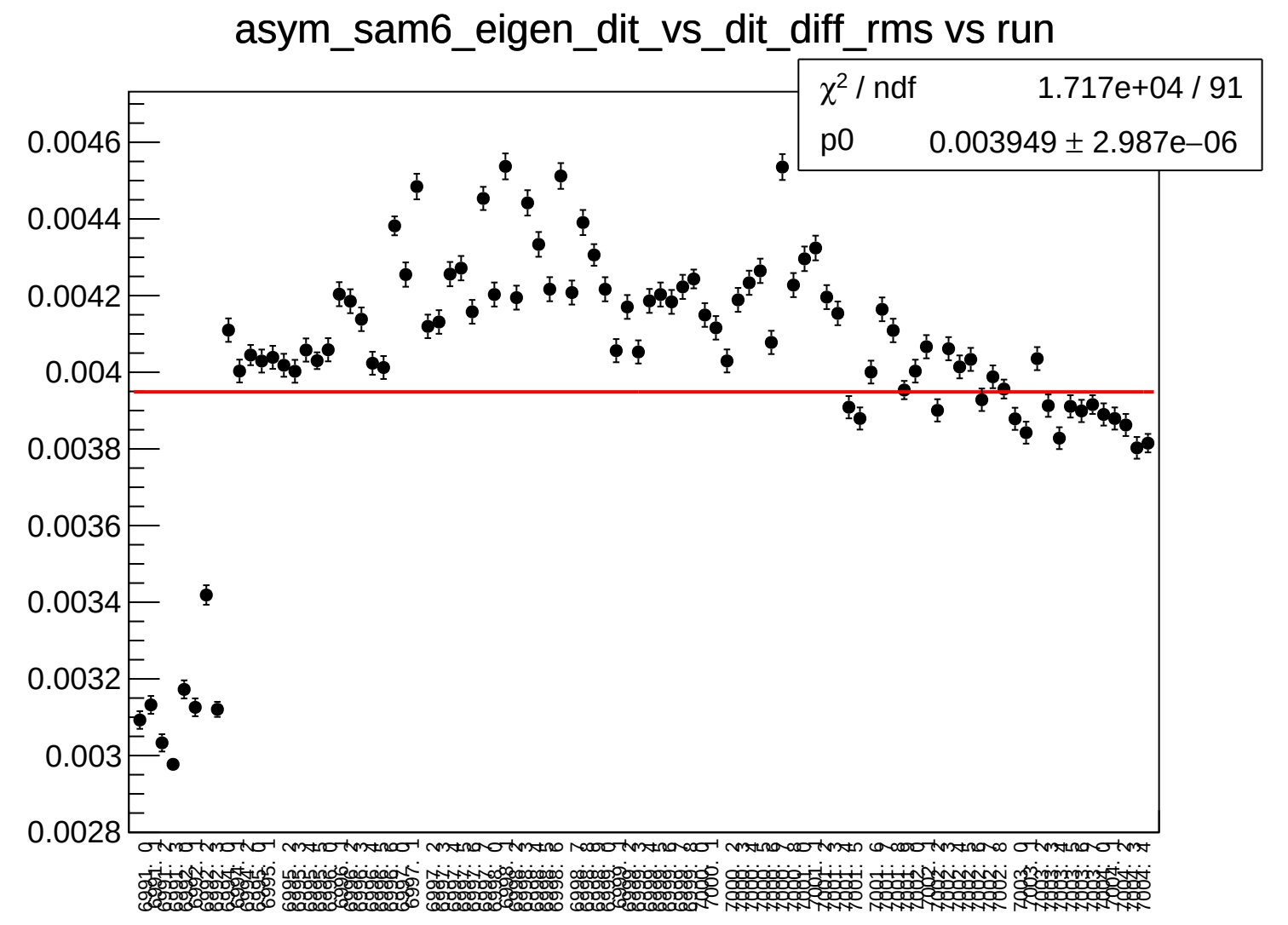

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 2.702e+04 / 91
p0 39.03 ± 0.0296
60
55
50
45
40
35
30

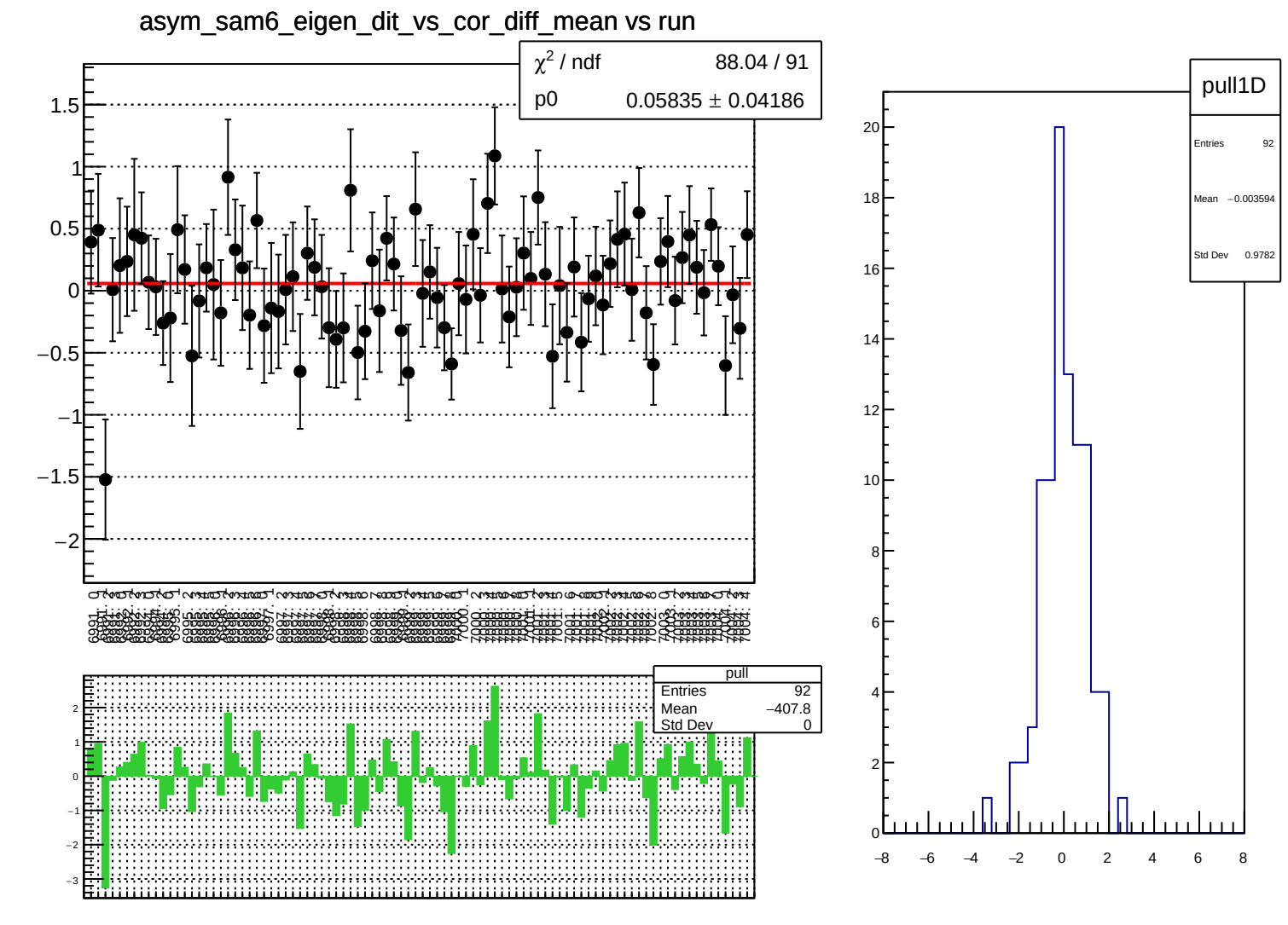

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.04 / 91
p0 0.05836 ± 0.04186
pull
Entries 92
Mean −407.6
Std Dev 0

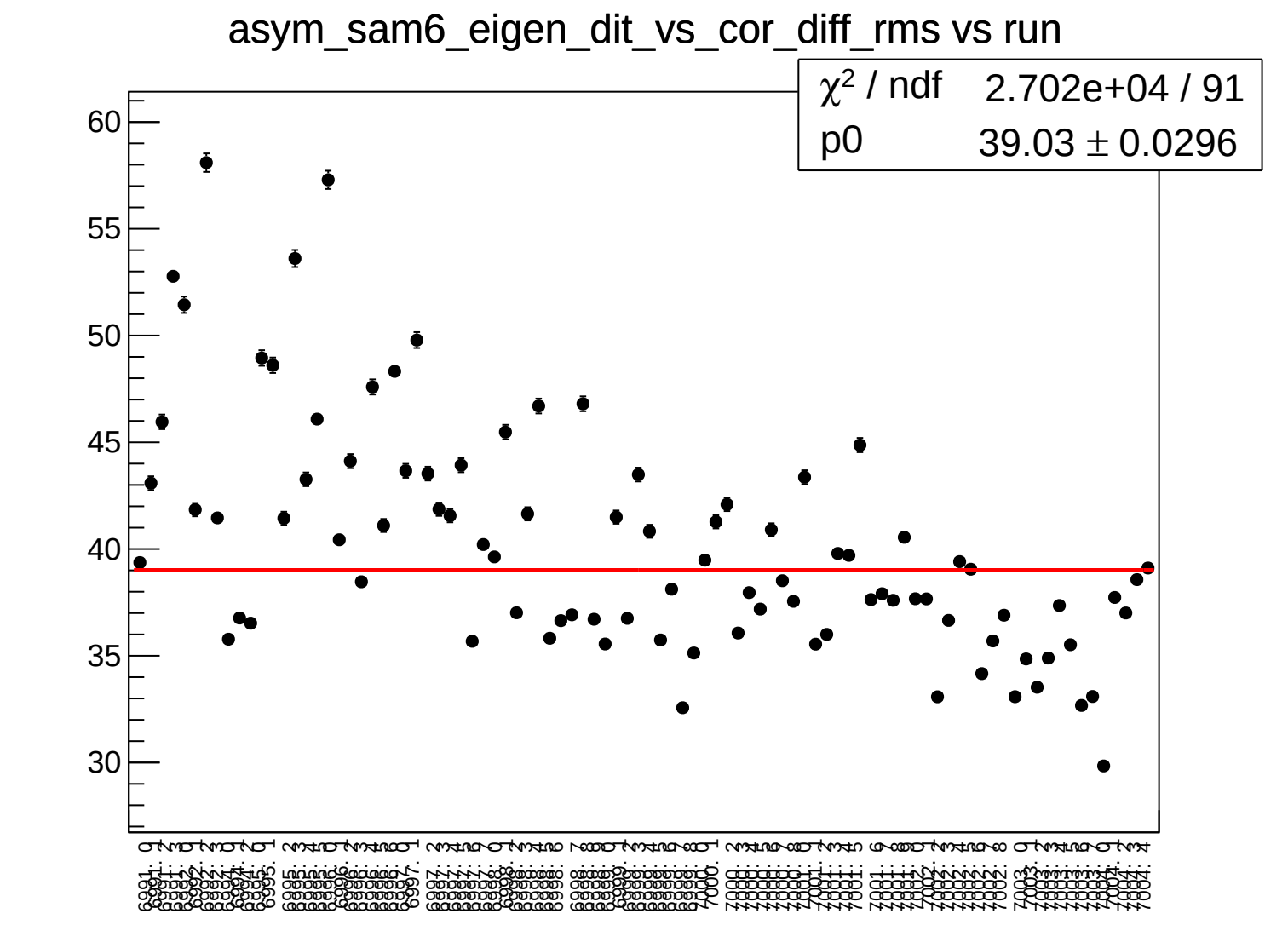

pull1D
Entries 92
Mean −0.003596
Std Dev 0.9782

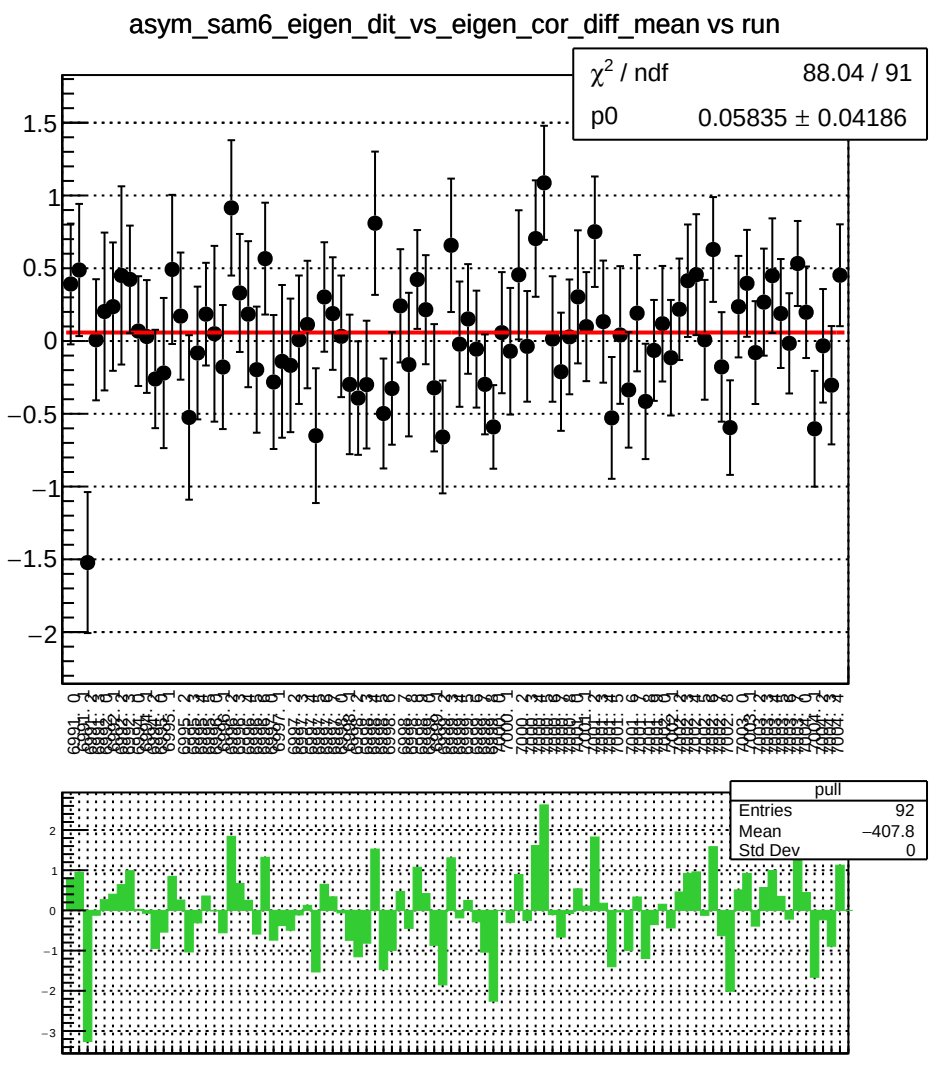

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.702e+04 / 91
p0 39.03 ± 0.0296
60
55
50
45
40
35
30

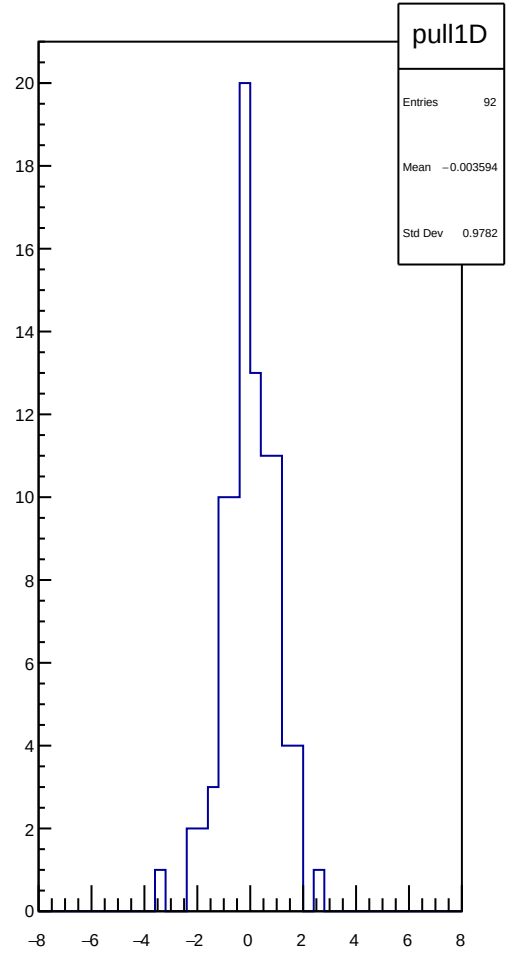

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.59 / 91
p0 −3.383e−06 ± 4.224e−06
pull
Entries 92
Mean −262.1
Std Dev 0
pull1D
Entries 92
Mean 0.006828
Std Dev 0.9923

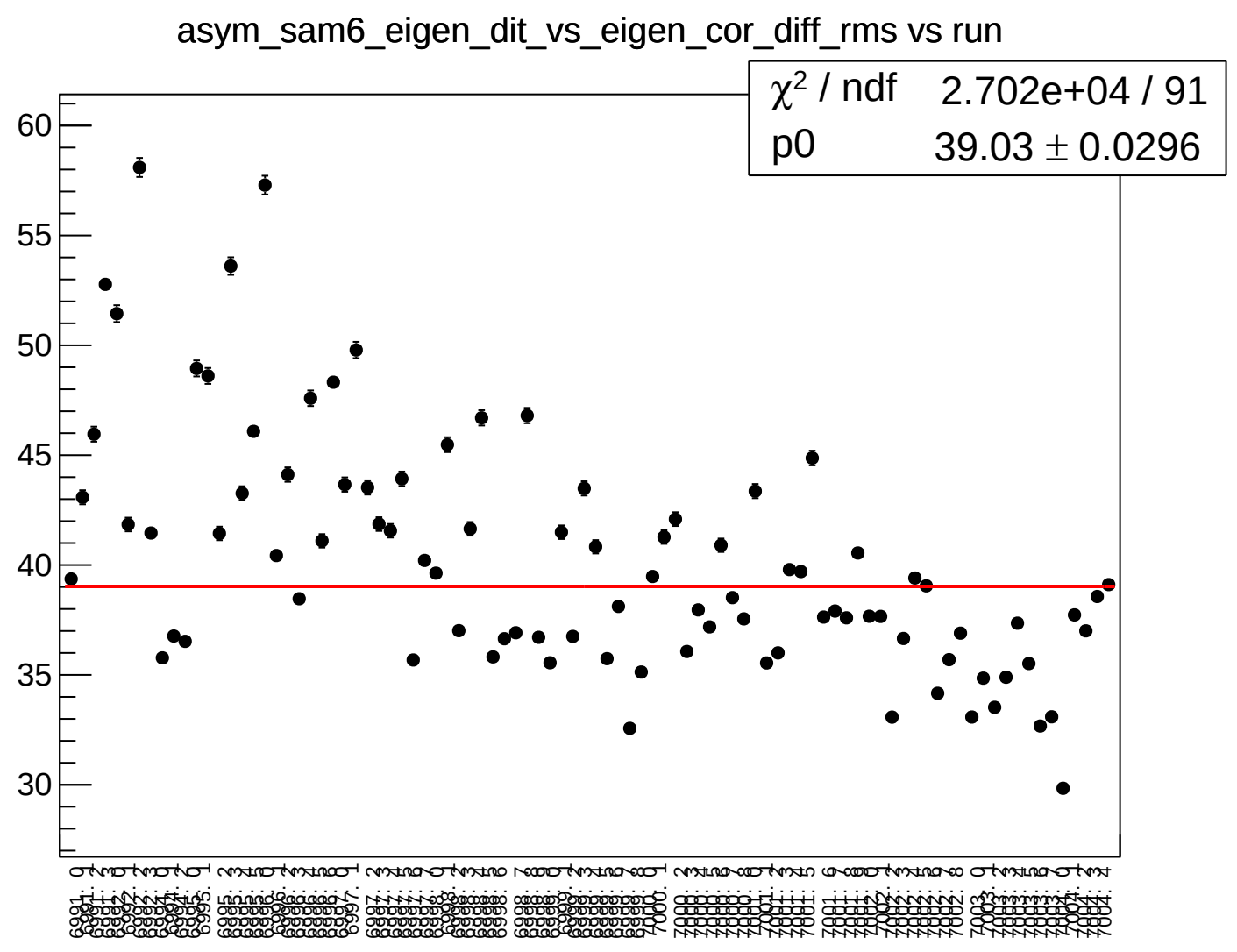

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.717e+04 / 91
p0 0.003949 ± 2.987e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

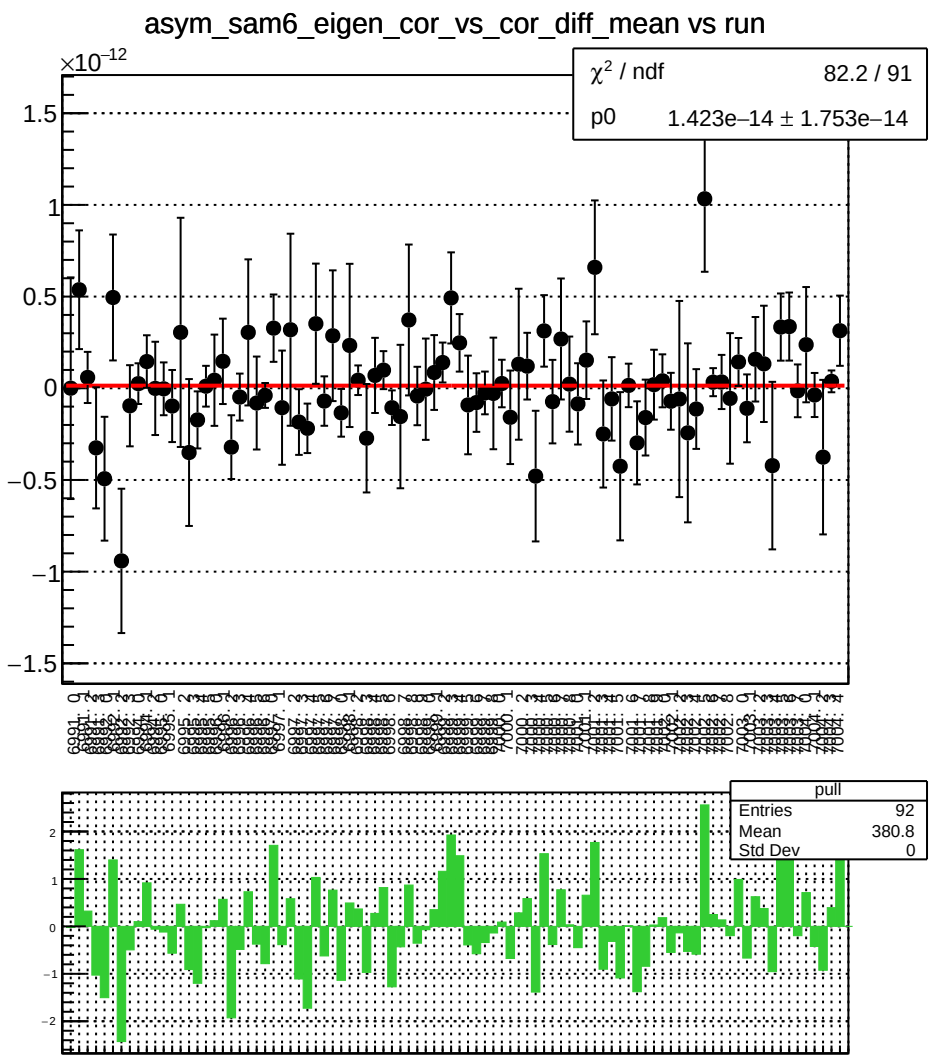

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.04 / 91
p0 0.05835 ± 0.04186
pull
Entries 92
Mean −407.8
Std Dev 0
pull1D
Entries 92
Mean −0.003594
Std Dev 0.9782

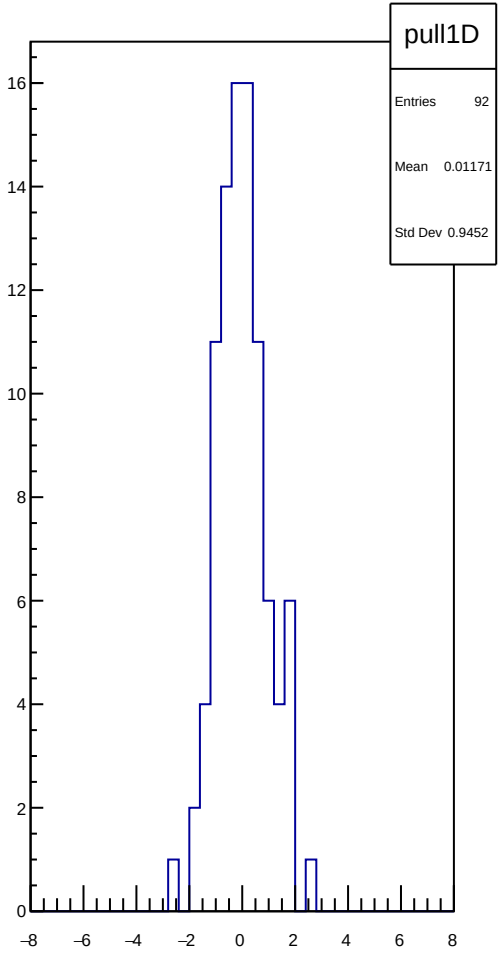

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.702e+04 / 91
p0 39.03 ± 0.0296
60
55
50
45
40
35
30

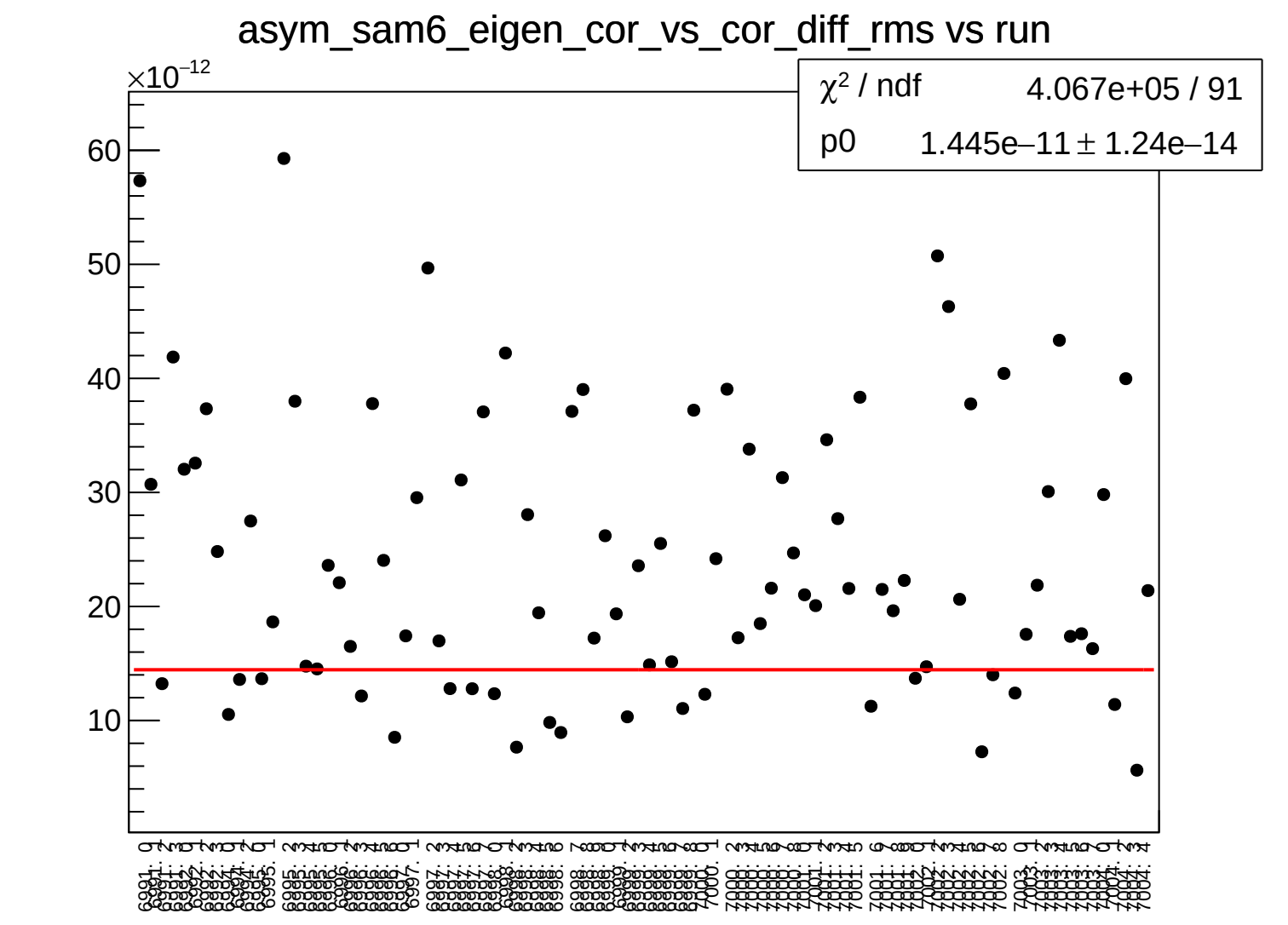

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.04 / 91
p0 0.05835 ± 0.04186
pull
Entries 92
Mean −407.8
Std Dev 0

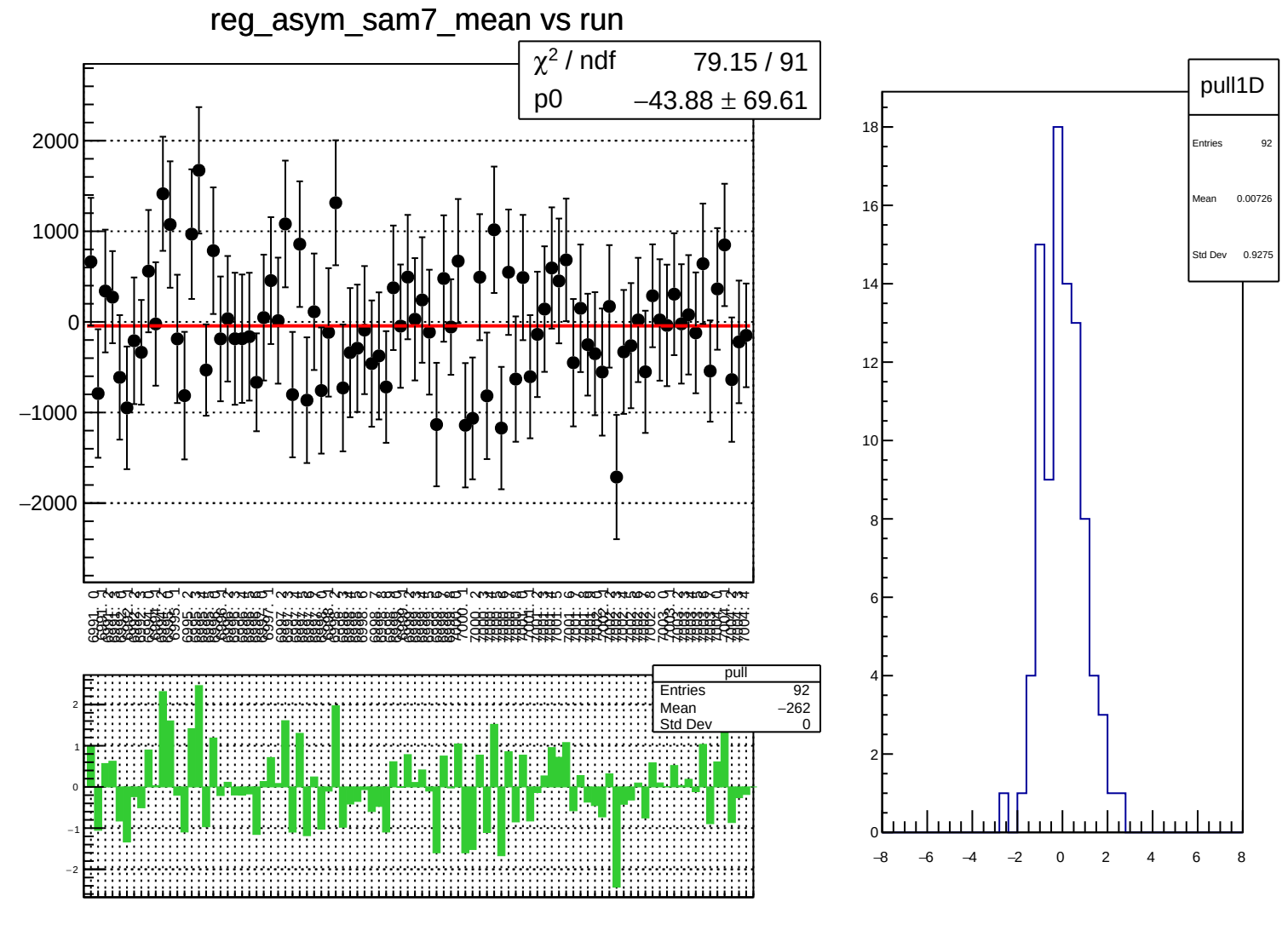

pull1D
Entries 92
Mean −0.003594
Std Dev 0.9782

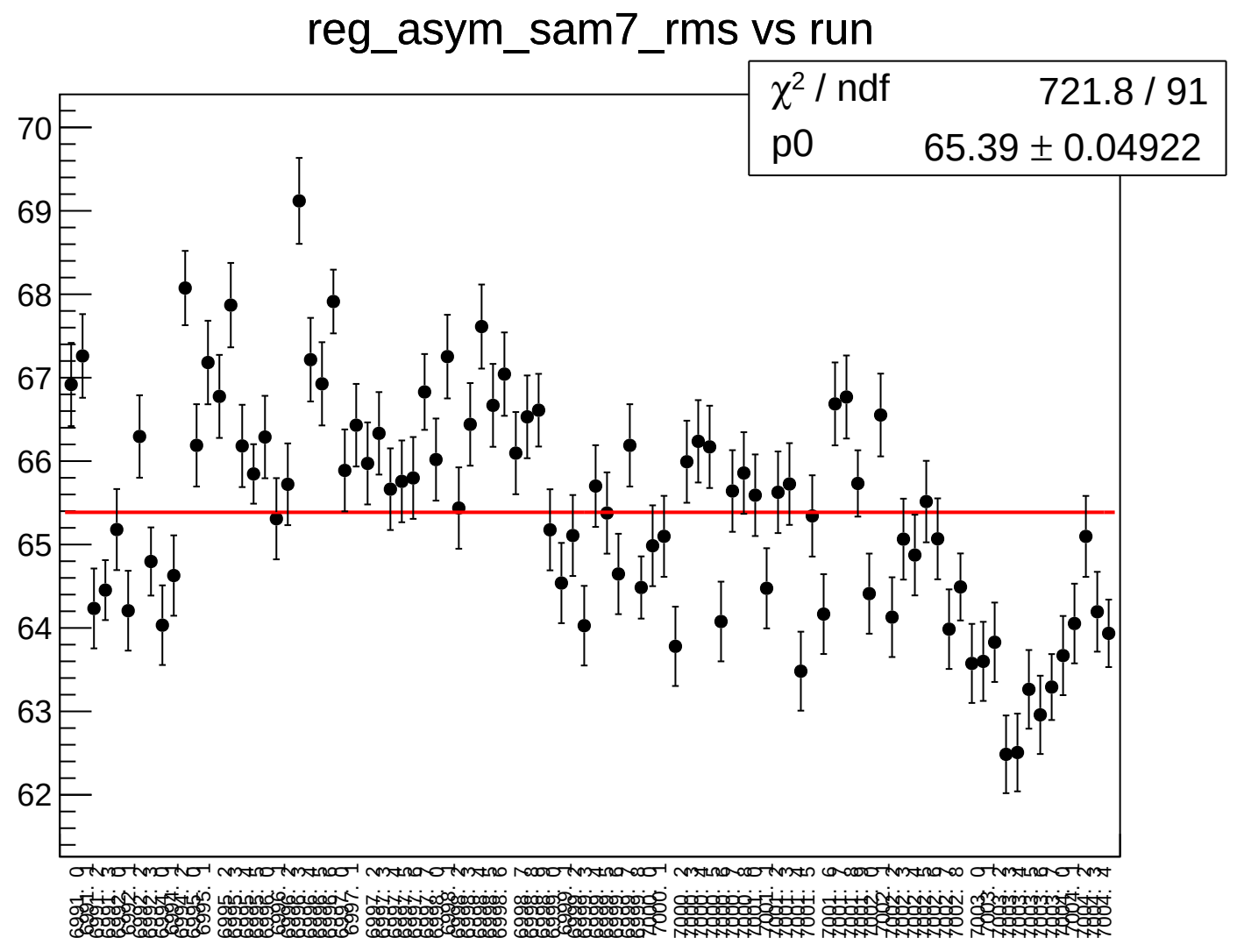

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.702e+04 / 91
p0 39.03 ± 0.0296
60
55
50
45
40
35
30

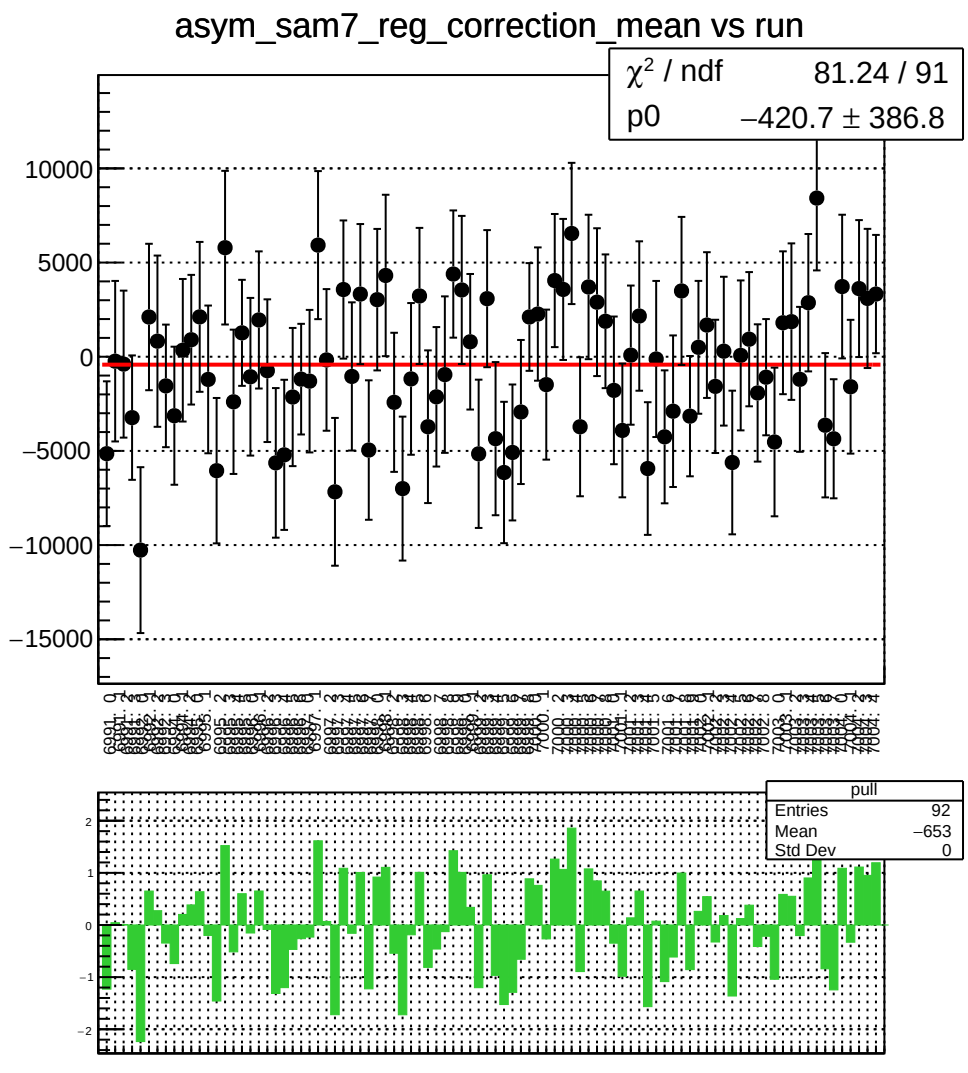

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.2 / 91
p0 1.423e−14 ± 1.753e−14
pull
Entries 92
Mean 380.8
Std Dev 0

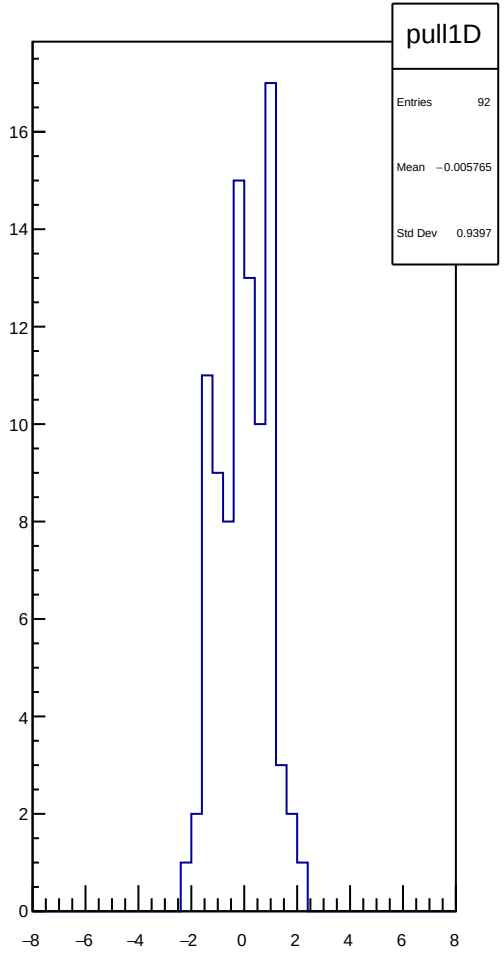

pull1D
Entries 92
Mean 0.01171
Std Dev 0.9452

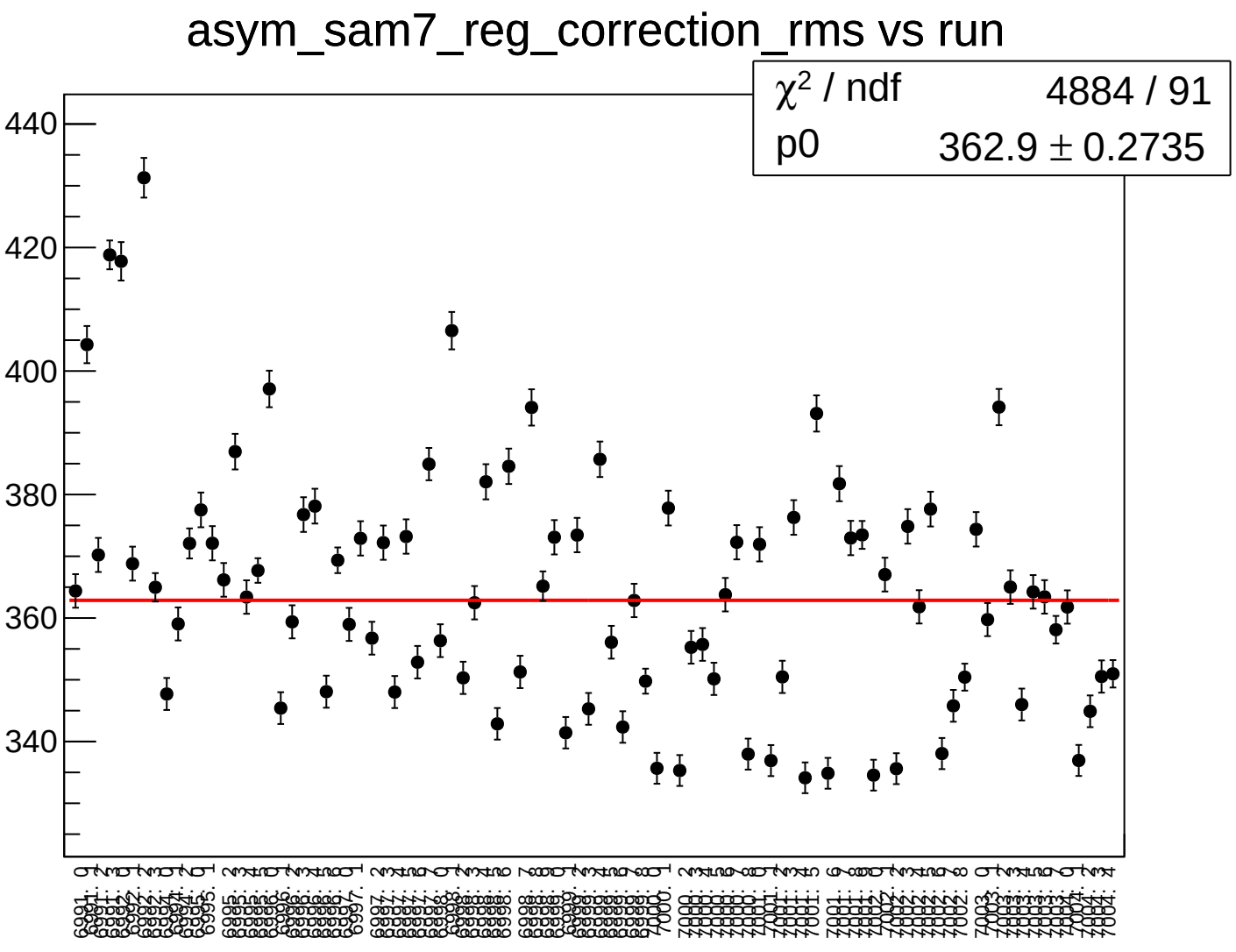

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.067e+05 / 91
p0 1.445e−11 ± 1.24e−14
60
50
40
30
20
10

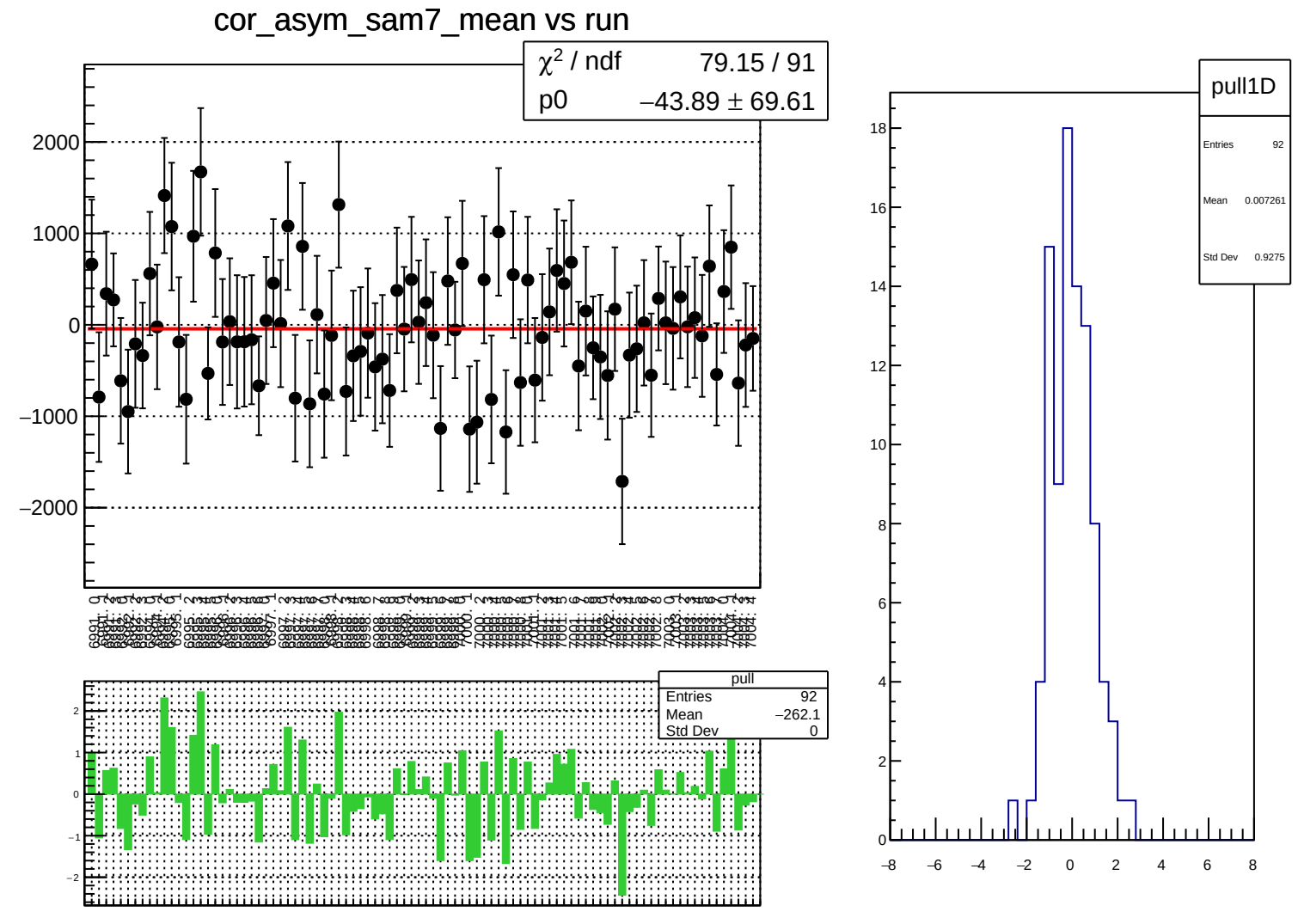

reg_asym_sam7_mean vs run
χ² / ndf 79.15 / 91
p0 −43.88 ± 69.61
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −262
Std Dev 0
pull1D
Entries 92
Mean 0.00726
Std Dev 0.9275

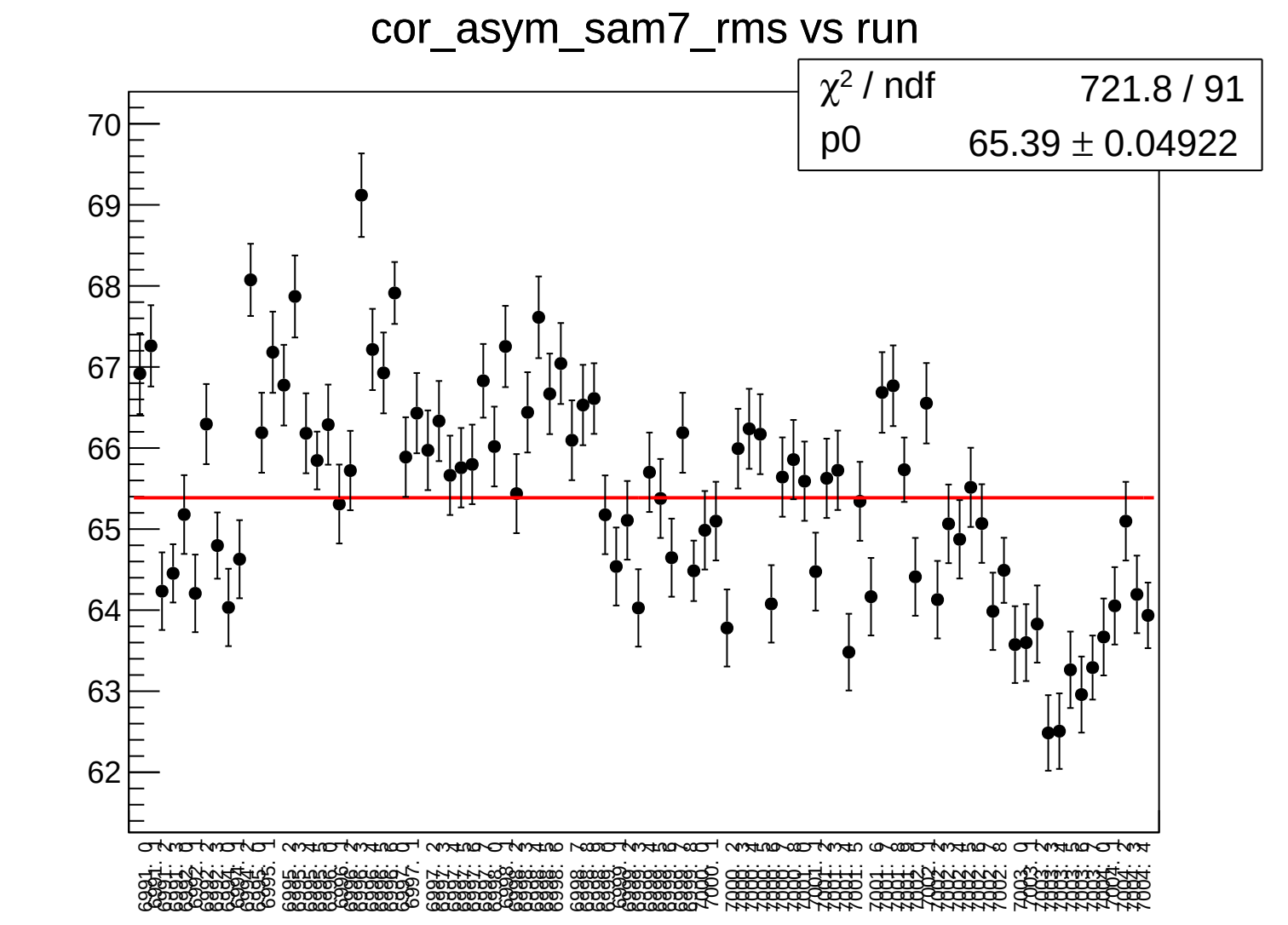

reg_asym_sam7_rms vs run
χ^2 / ndf 721.8 / 91
p0 65.39 ± 0.04922
70
69
68
67
66
65
64
63
62

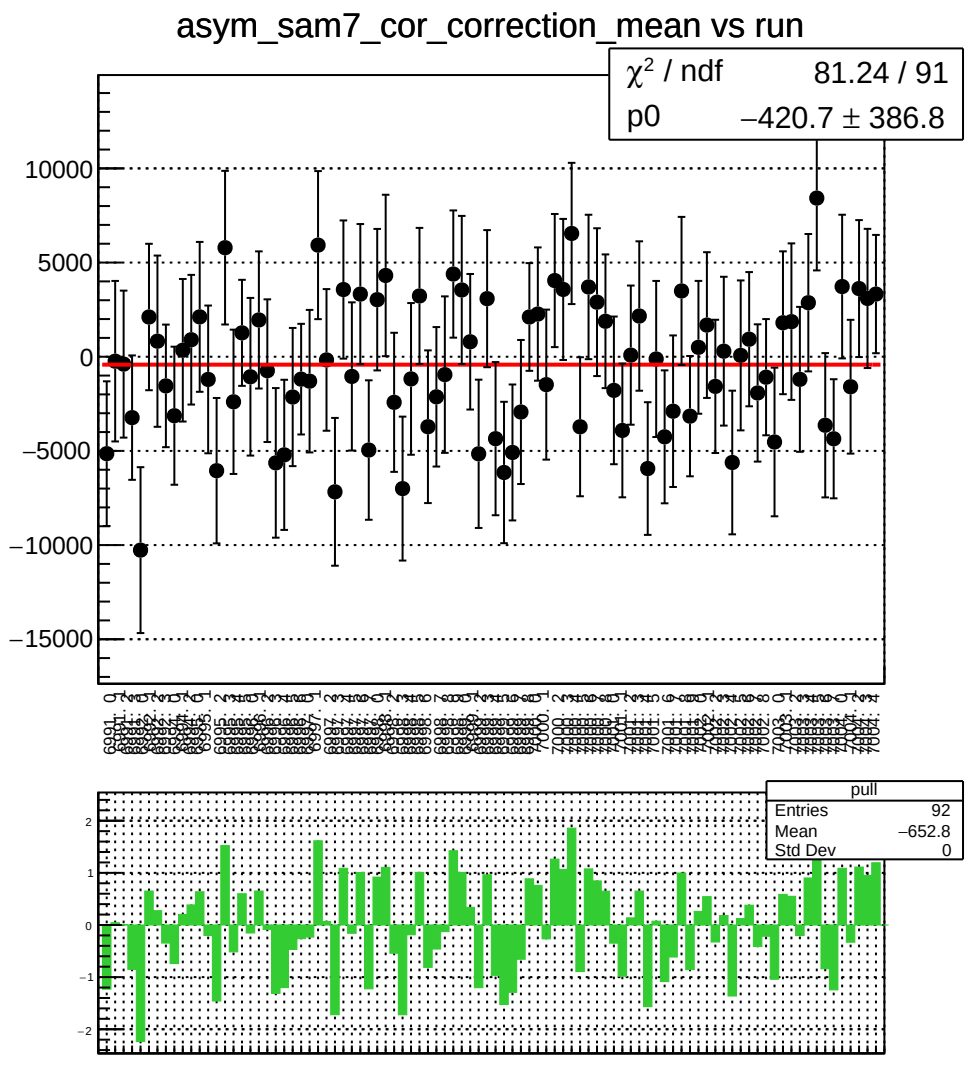

asym_sam7_reg_correction_mean vs run
χ² / ndf 81.24 / 91
p0 −420.7 ± 386.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −653
Std Dev 0
2
1
0
−1
−2

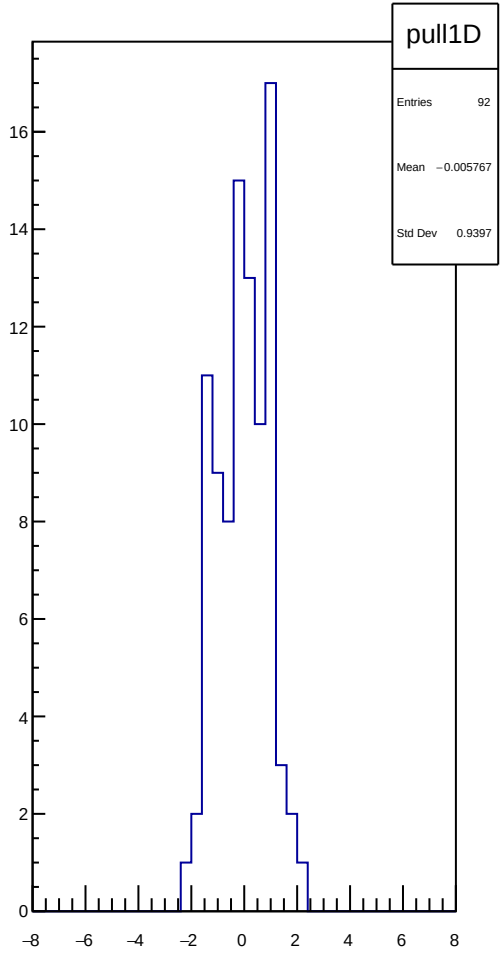

pull1D
Entries 92
Mean −0.005765
Std Dev 0.9397
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

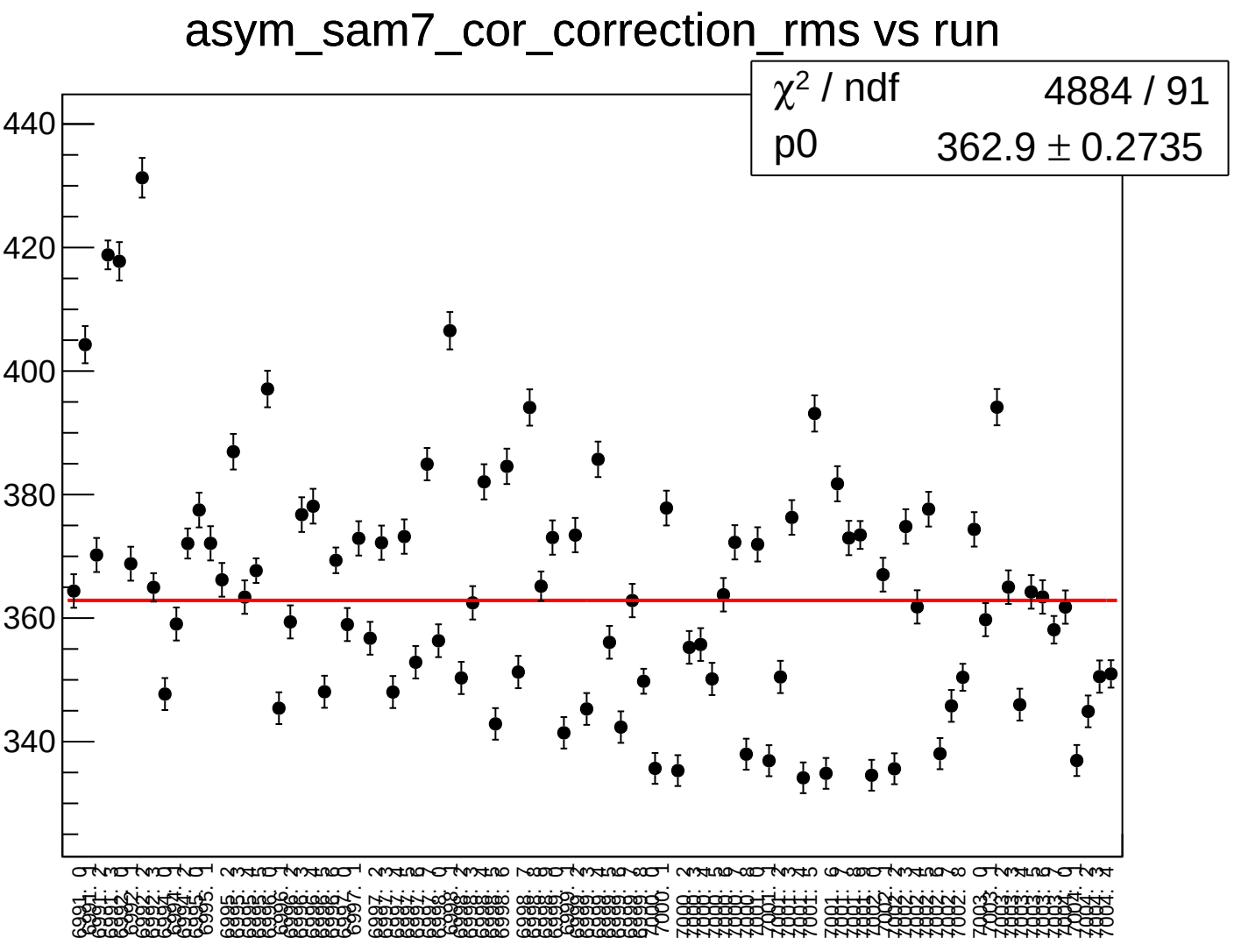

asym_sam7_reg_correction_rms vs run
χ² / ndf 4884 / 91
p0 362.9 ± 0.2735
440
420
400
380
360
340

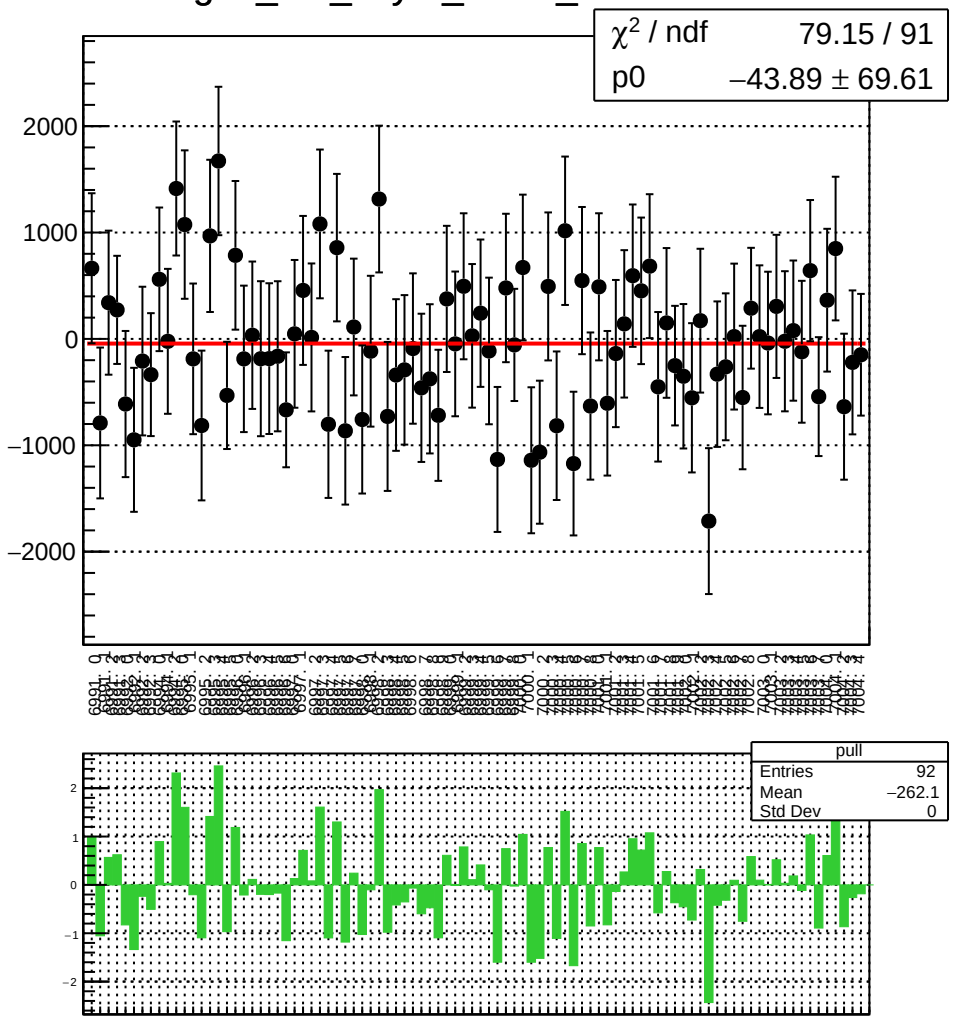

cor_asym_sam7_mean vs run
χ² / ndf 79.15 / 91
p0 −43.89 ± 69.61
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −262.1
Std Dev 0
pull1D
Entries 92
Mean 0.007261
Std Dev 0.9275

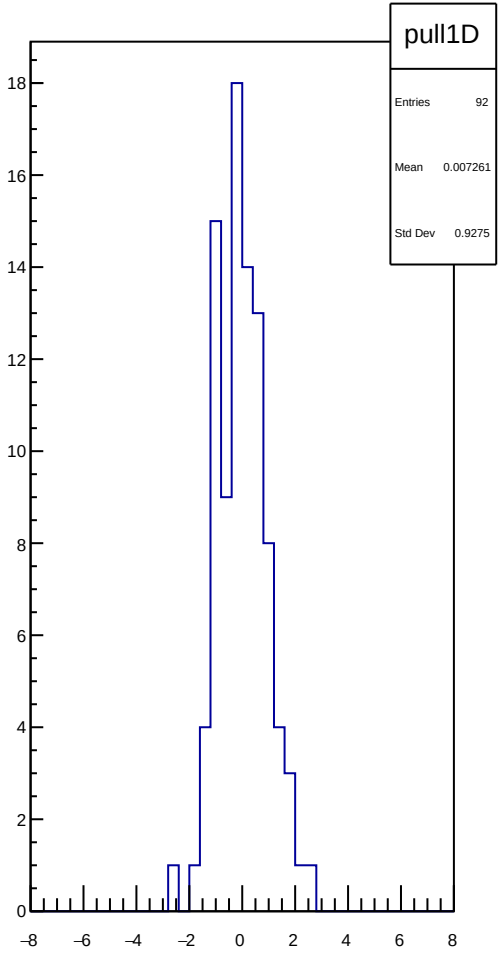

cor_asym_sam7_rms vs run
χ^2 / ndf 721.8 / 91
p0 65.39 ± 0.04922
70
69
68
67
66
65
64
63
62

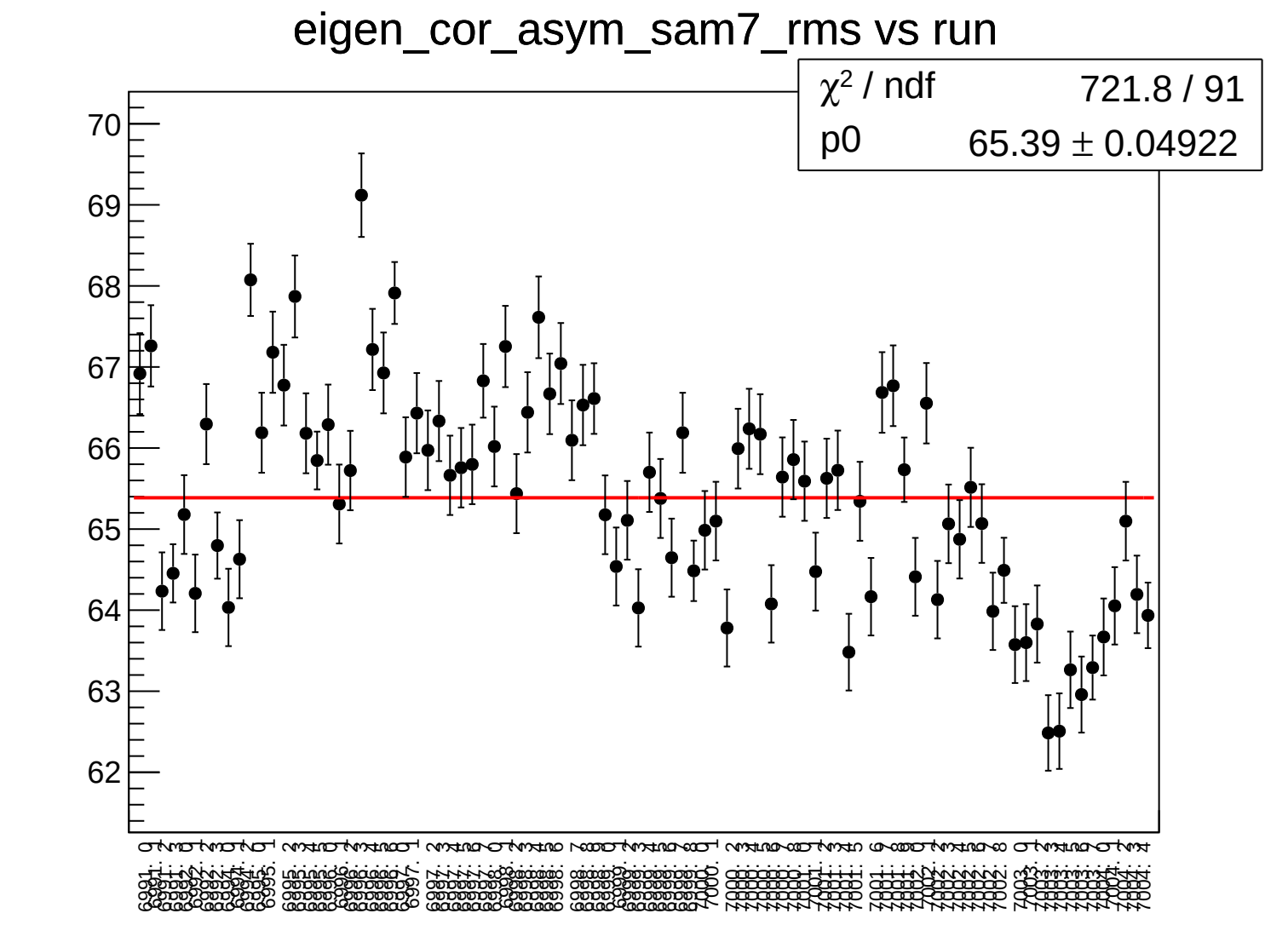

asym_sam7_cor_correction_mean vs run
χ² / ndf 81.24 / 91
p0 −420.7 ± 386.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −652.8
Std Dev 0
2
1
0
−1
−2

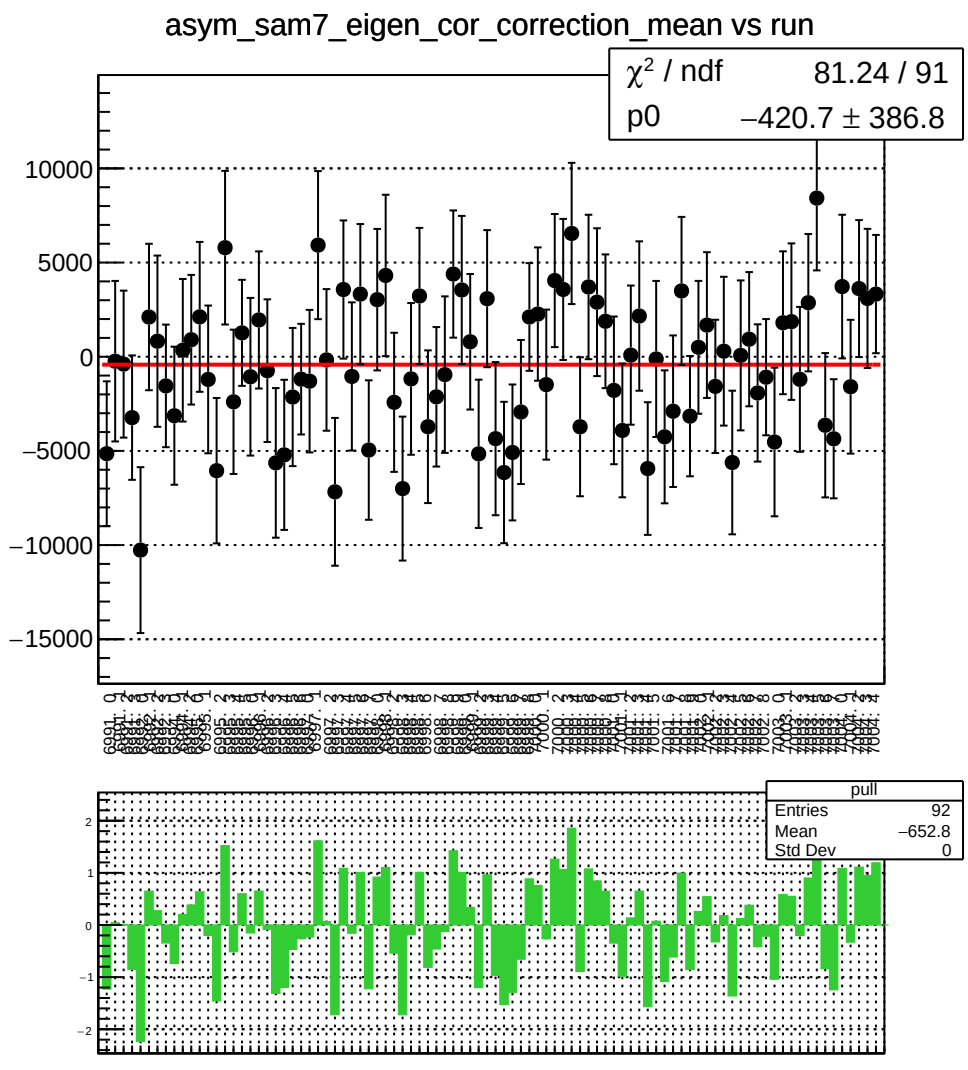

pull1D
Entries 92
Mean −0.005767
Std Dev 0.9397
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

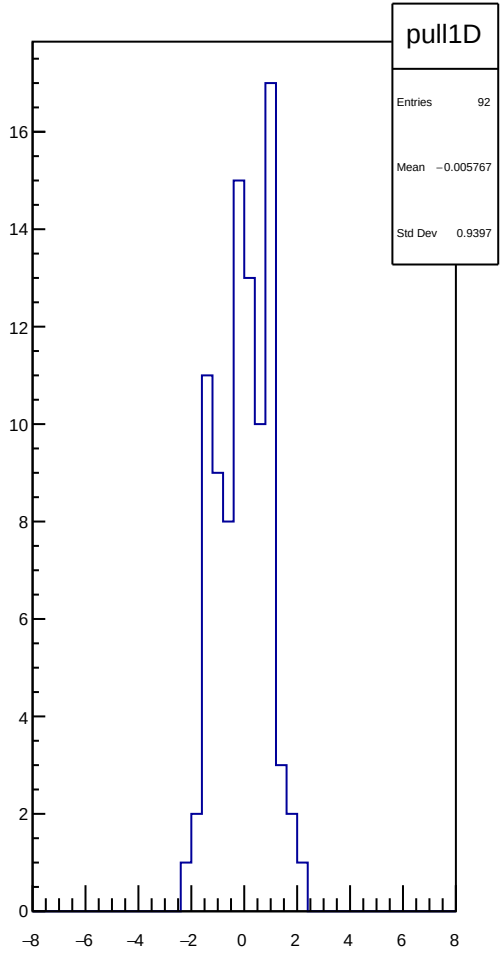

asym_sam7_cor_correction_rms vs run
χ² / ndf 4884 / 91
p0 362.9 ± 0.2735
440
420
400
380
360
340

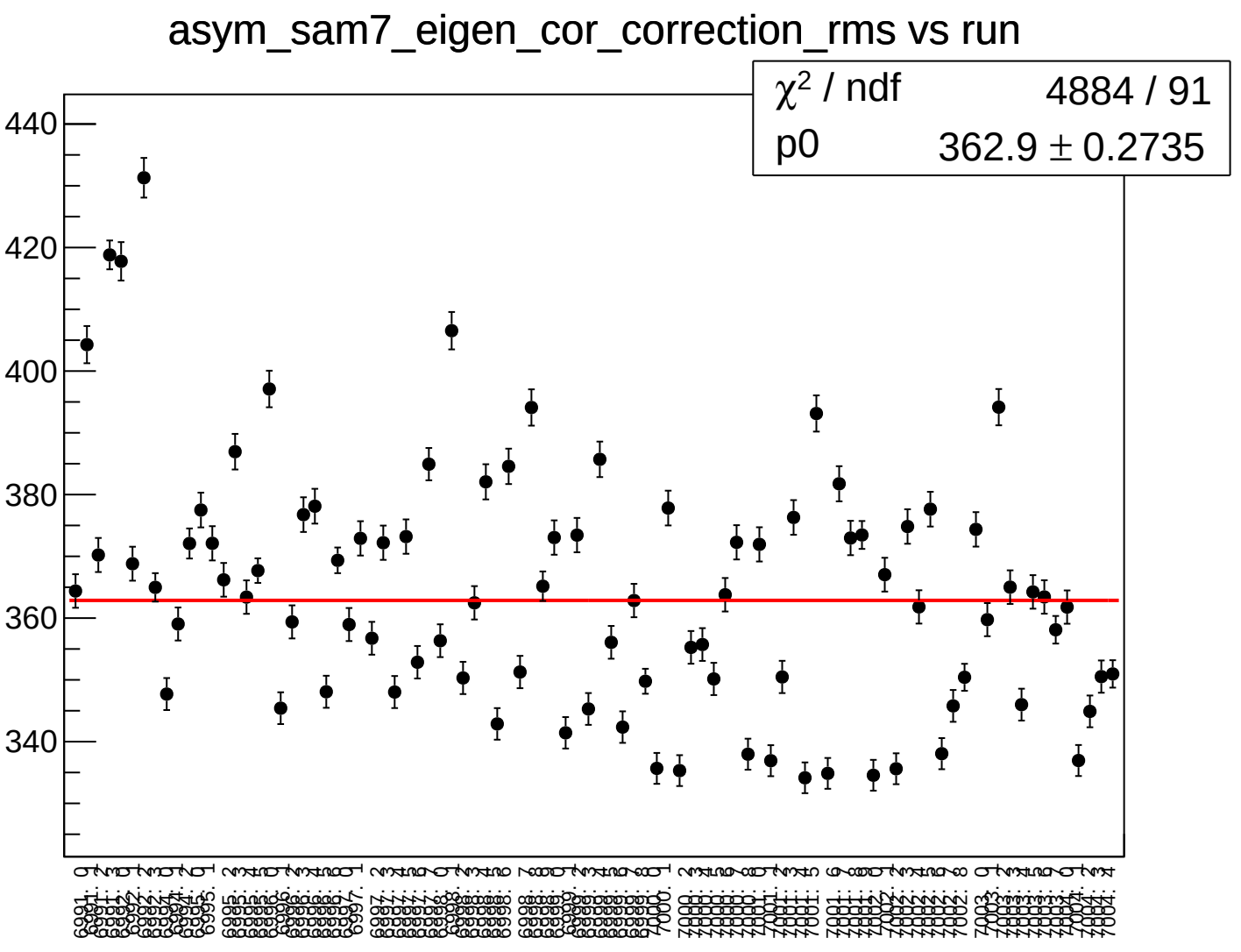

eigen_cor_asym_sam7_mean vs run
χ² / ndf 79.15 / 91
p0 −43.89 ± 69.61
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −262.1
Std Dev 0
2
1
0
−1
−2

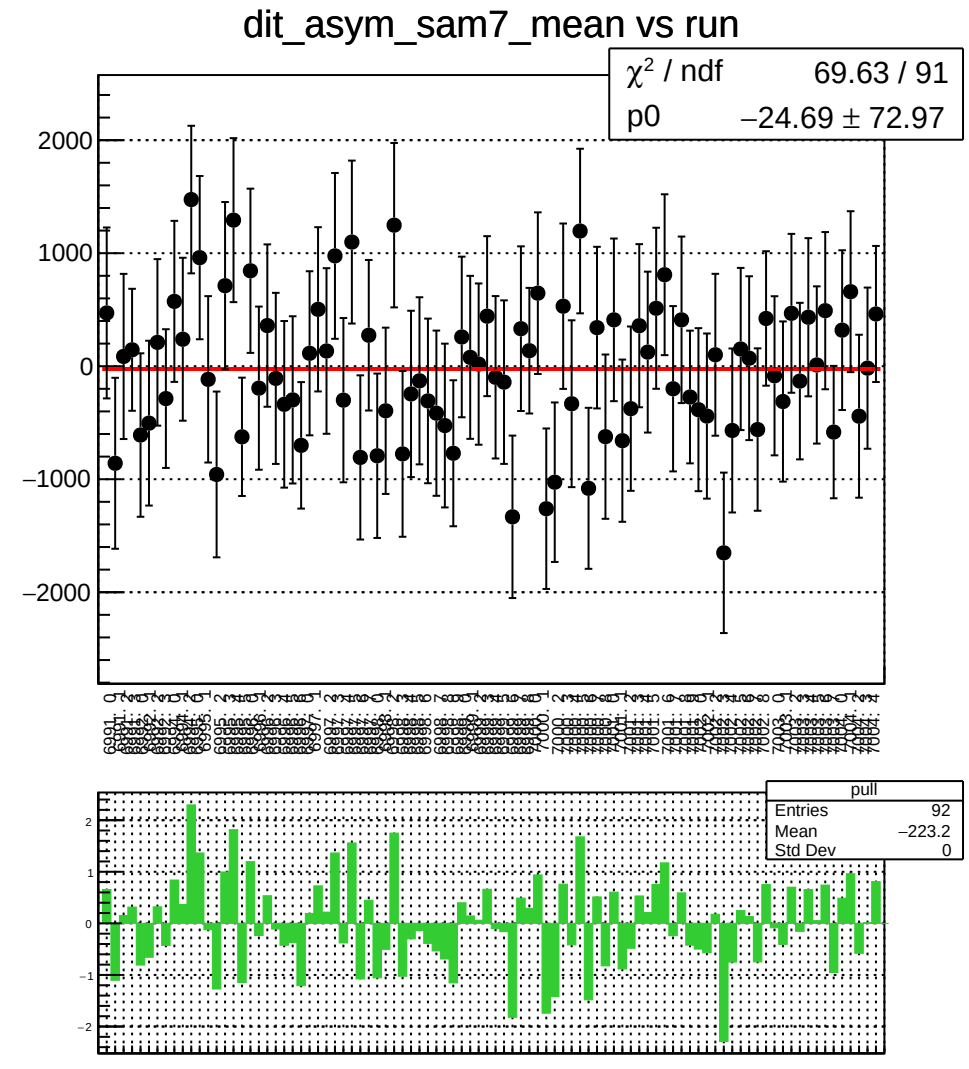

pull1D
Entries 92
Mean 0.007261
Std Dev 0.9275
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

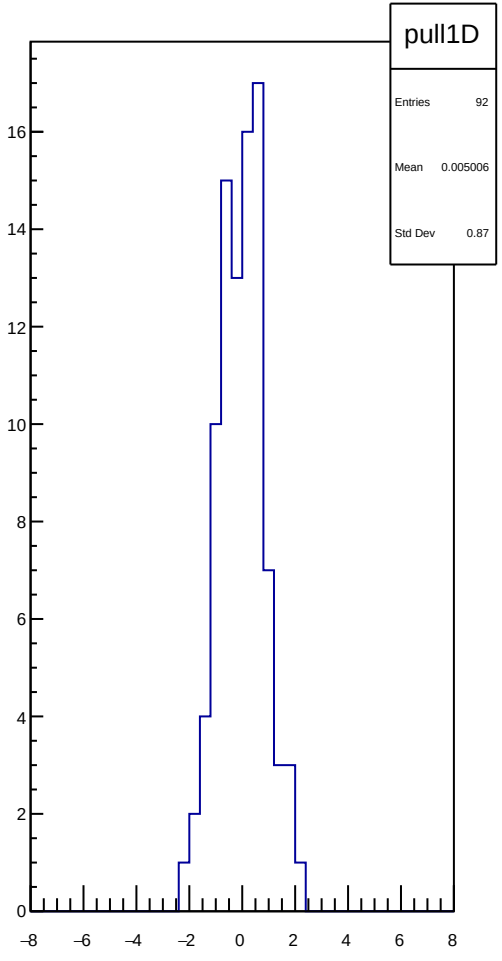

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 721.8 / 91
p0 65.39 ± 0.04922
70
69
68
67
66
65
64
63
62

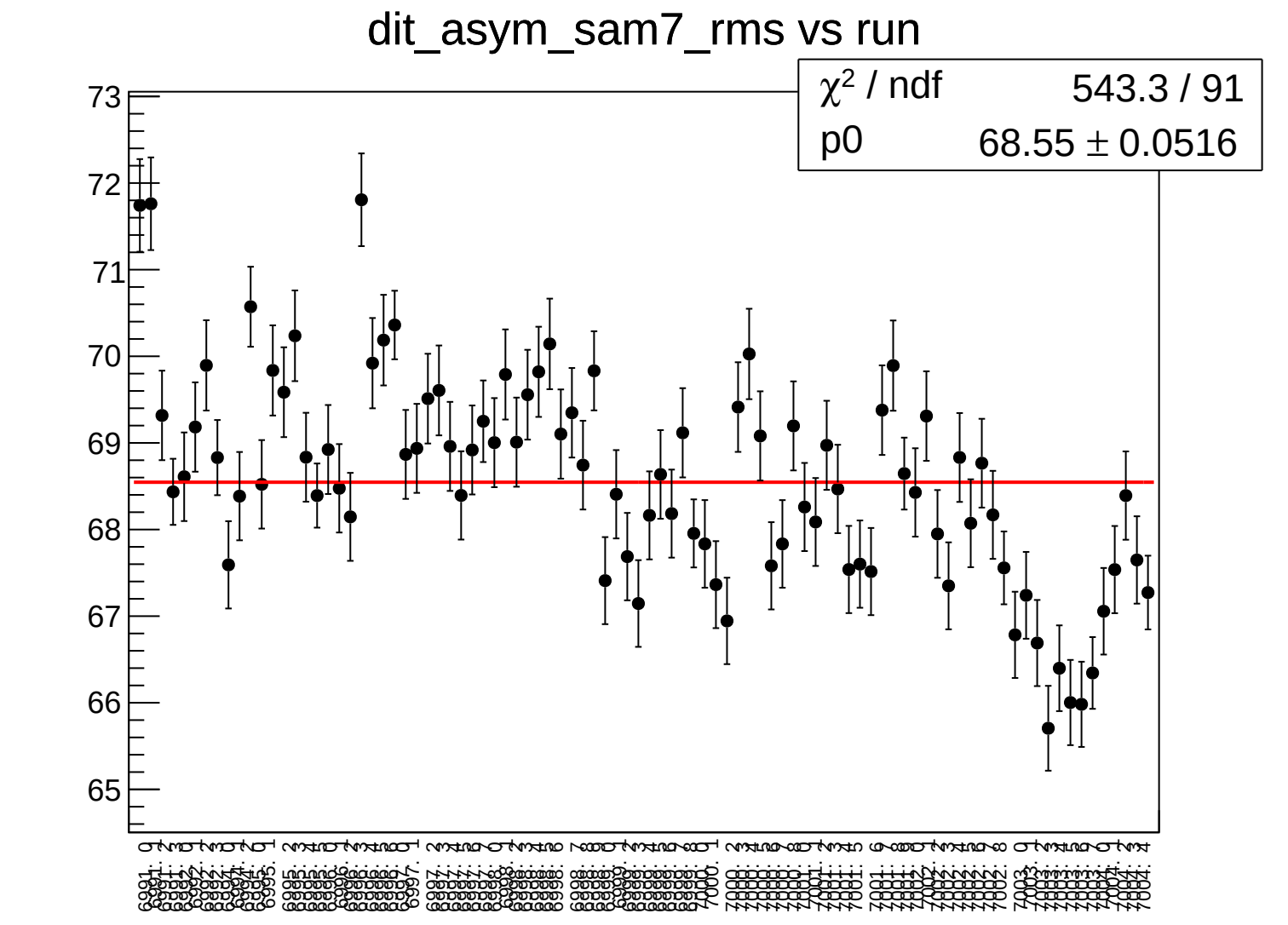

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 81.24 / 91
p0 −420.7 ± 386.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −652.8
Std Dev 0
2
1
0
−1
−2

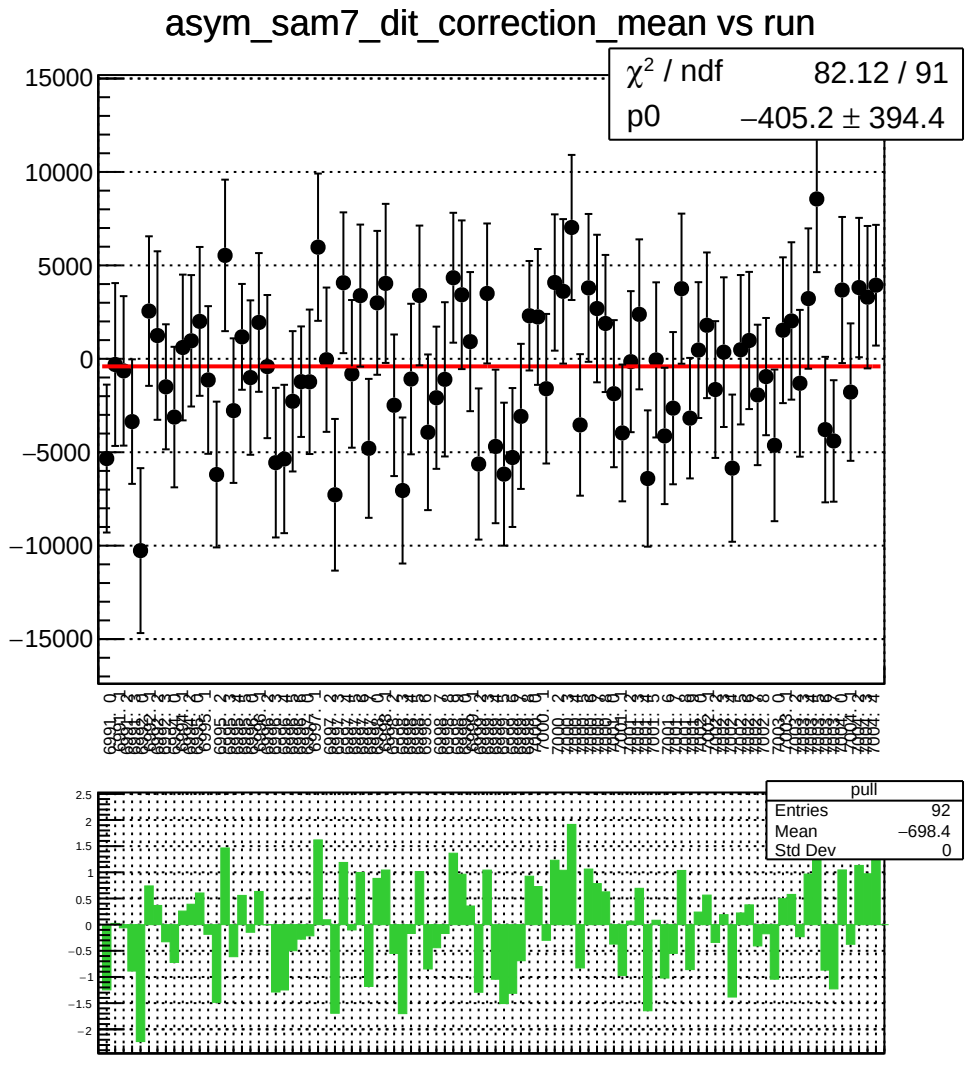

pull1D
Entries 92
Mean −0.005767
Std Dev 0.9397
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

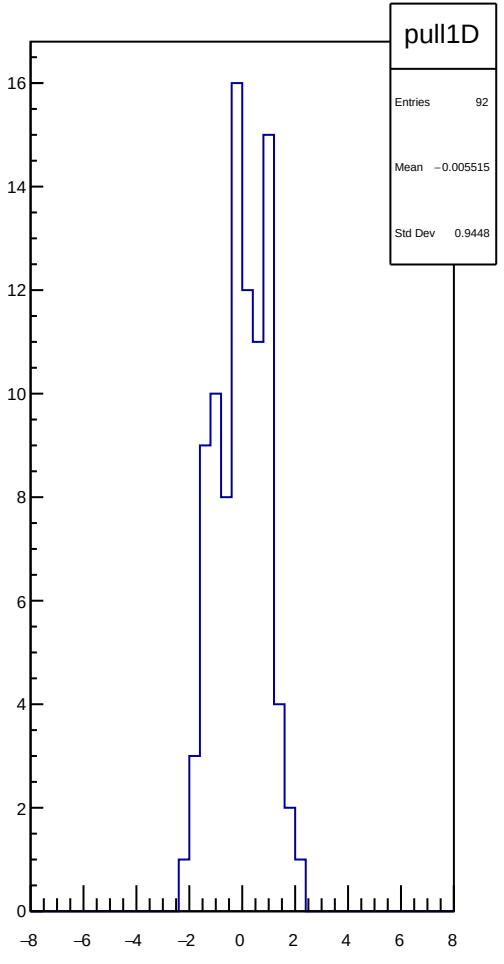

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 4884 / 91
p0 362.9 ± 0.2735
440
420
400
380
360
340

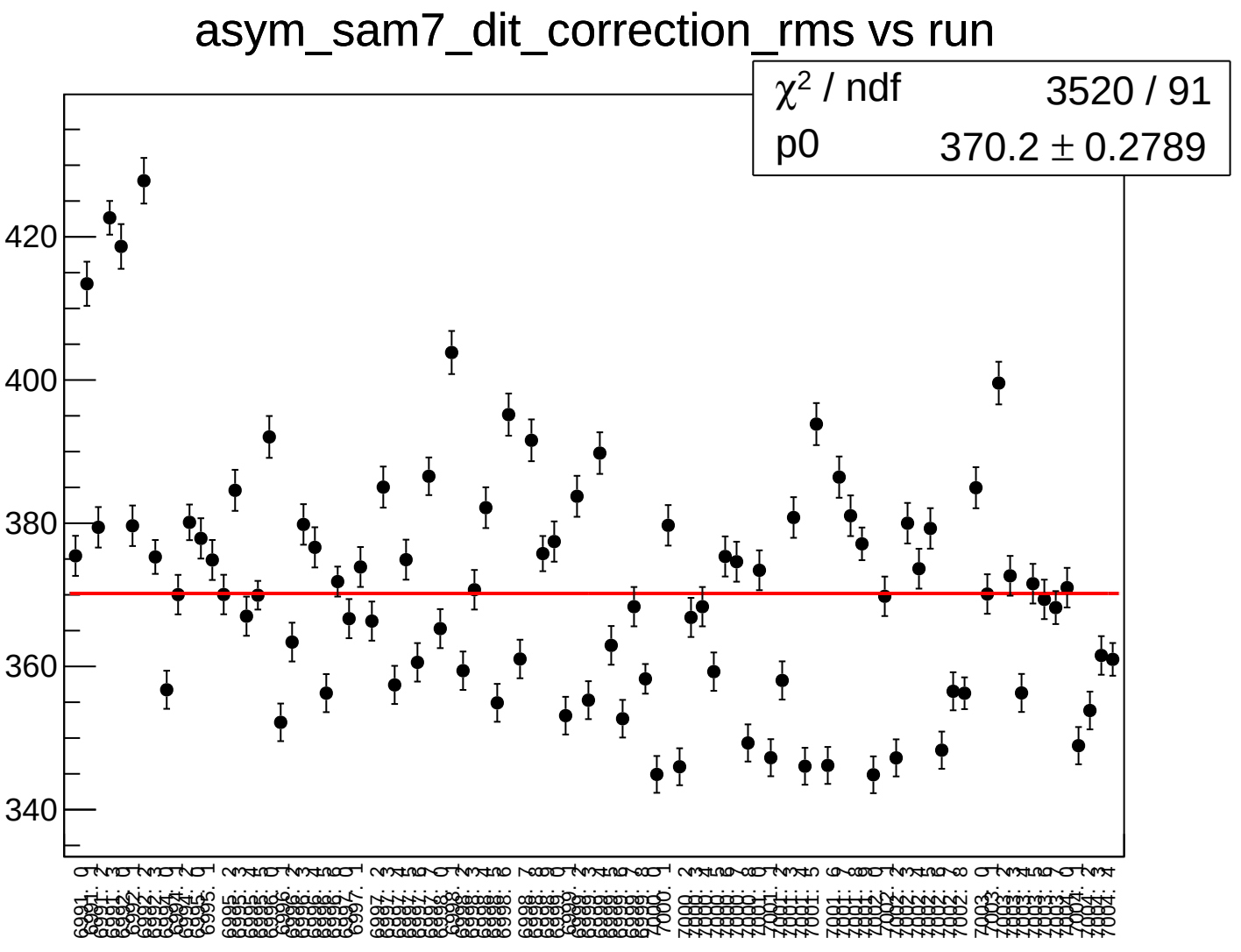

dit_asym_sam7_mean vs run
χ^2 / ndf 69.63 / 91
p0 −24.69 ± 72.97
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −223.2
Std Dev 0
2
1
0
−1
−2

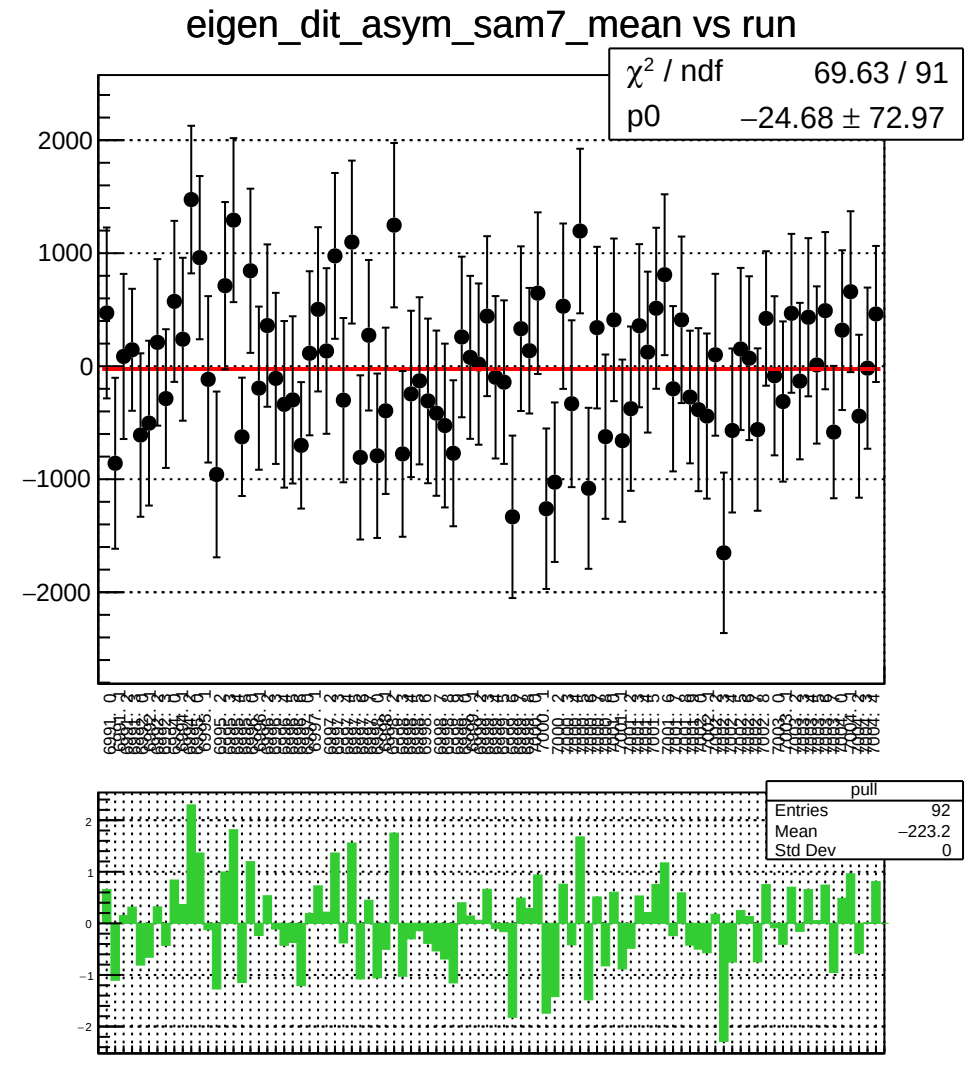

pull1D
Entries 92
Mean 0.005006
Std Dev 0.87
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

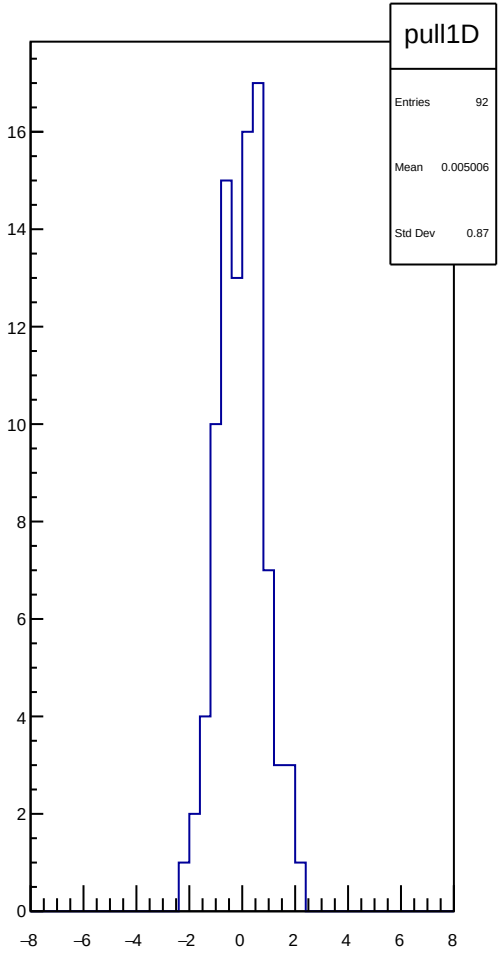

dit_asym_sam7_rms vs run
χ² / ndf 543.3 / 91
p0 68.55 ± 0.0516
73
72
71
70
69
68
67
66
65

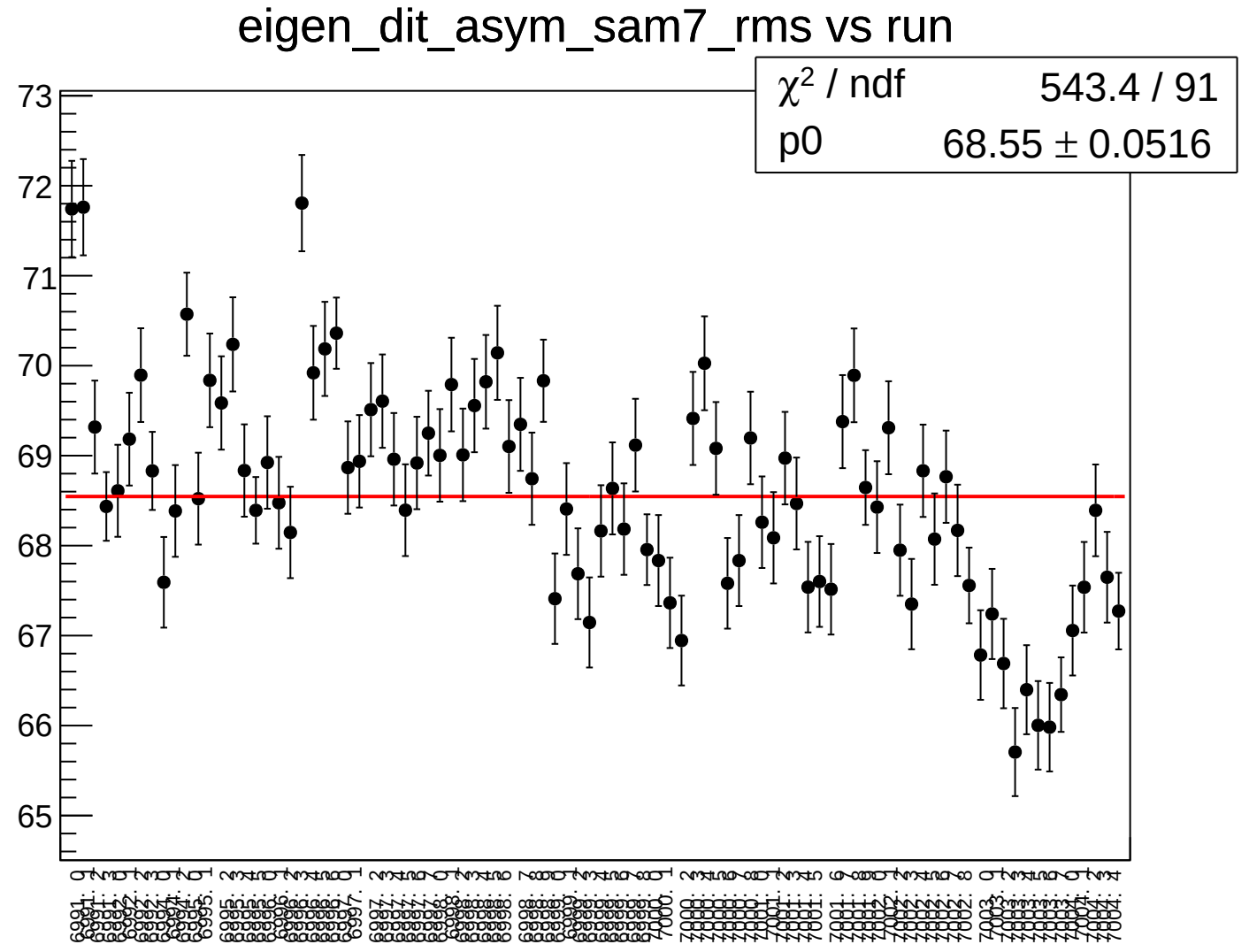

asym_sam7_dit_correction_mean vs run
χ² / ndf 82.12 / 91
p0 −405.2 ± 394.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −698.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

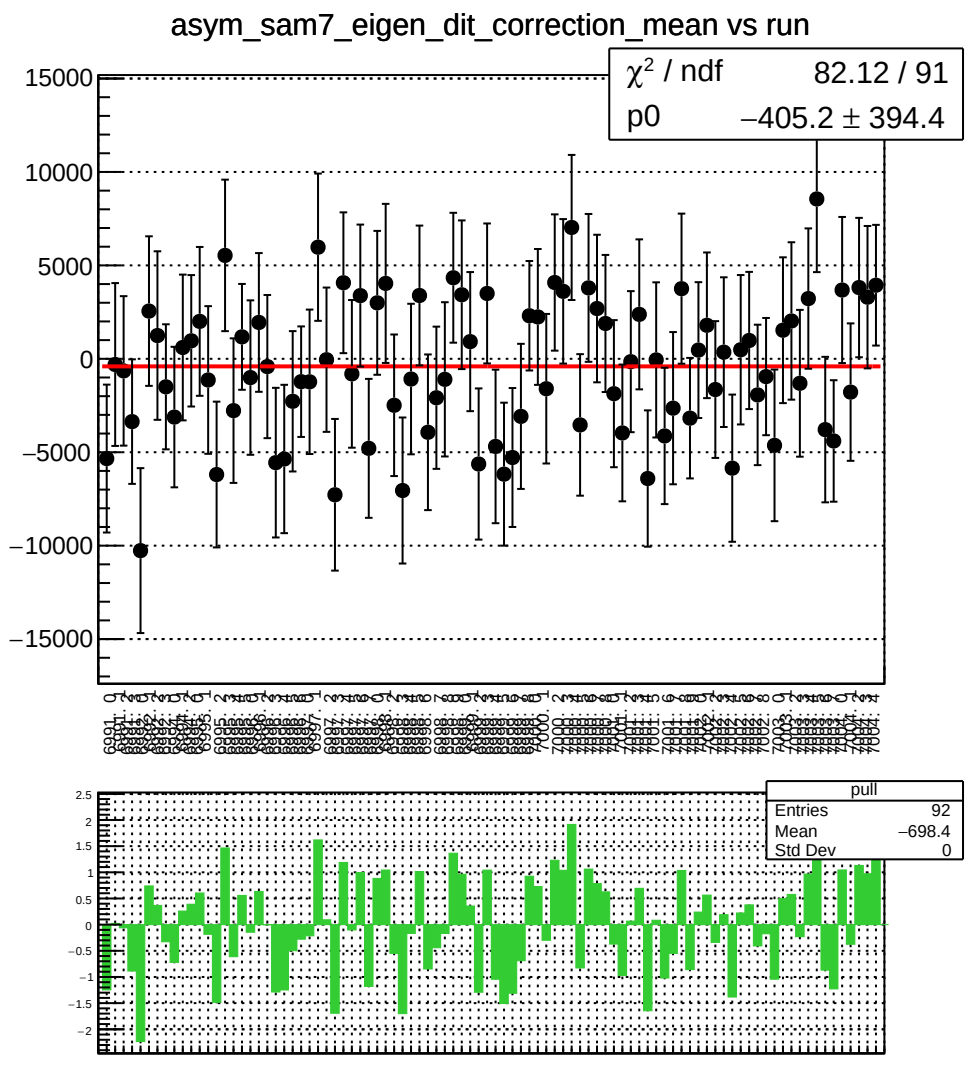

pull1D
Entries 92
Mean −0.005515
Std Dev 0.9448
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

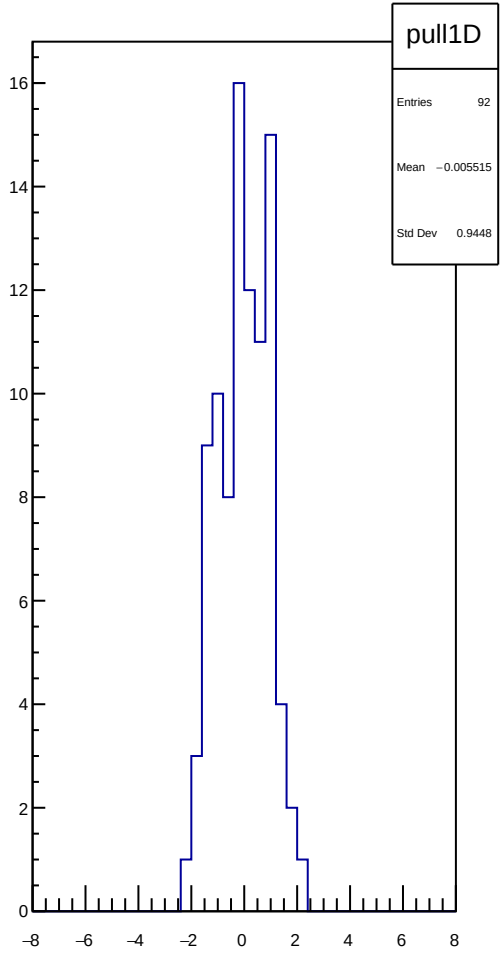

asym_sam7_dit_correction_rms vs run
χ² / ndf 3520 / 91
p0 370.2 ± 0.2789
420
400
380
360
340

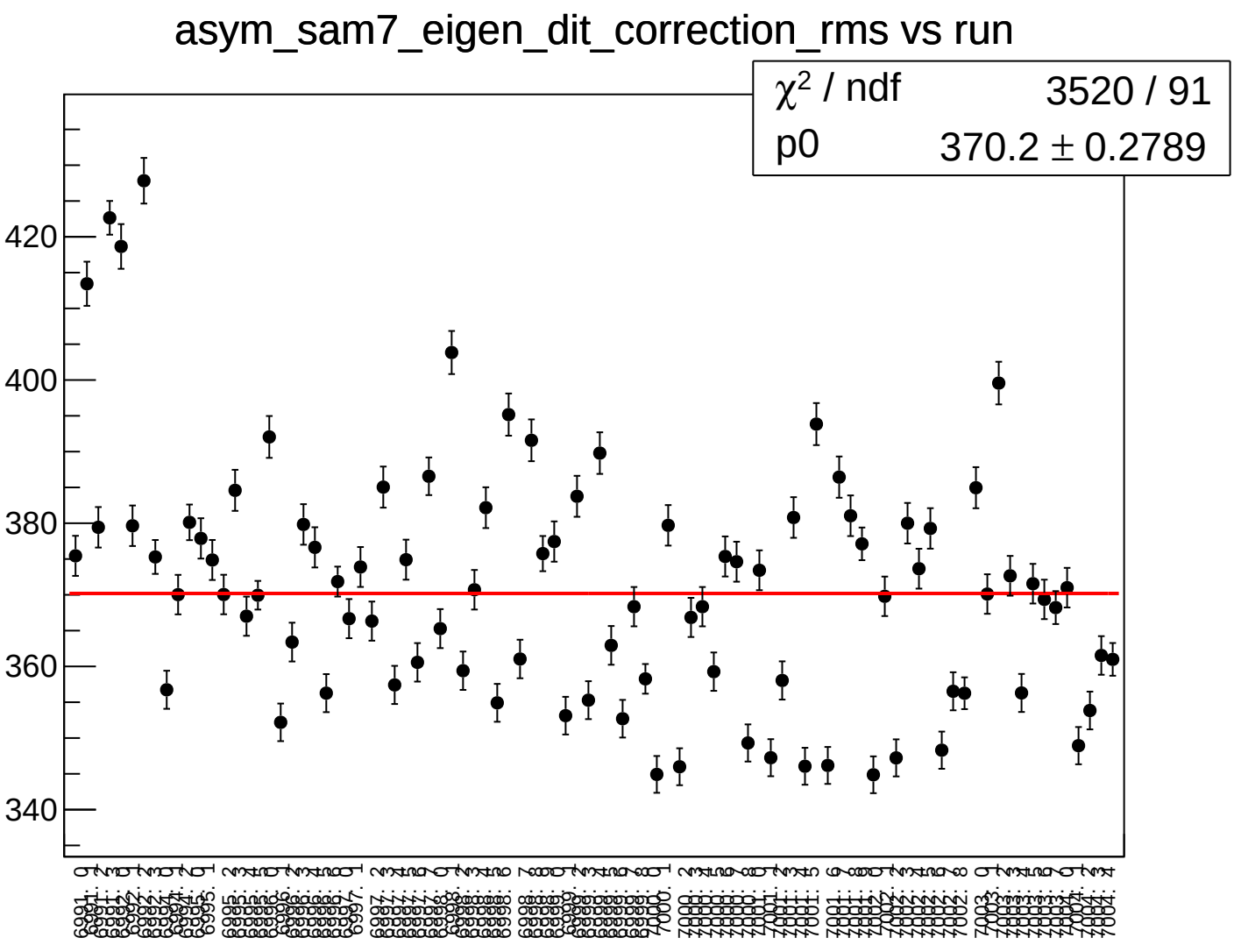

eigen_dit_asym_sam7_mean vs run
χ² / ndf 69.63 / 91
p0 −24.68 ± 72.97
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −223.2
Std Dev 0
2
1
0
−1
−2

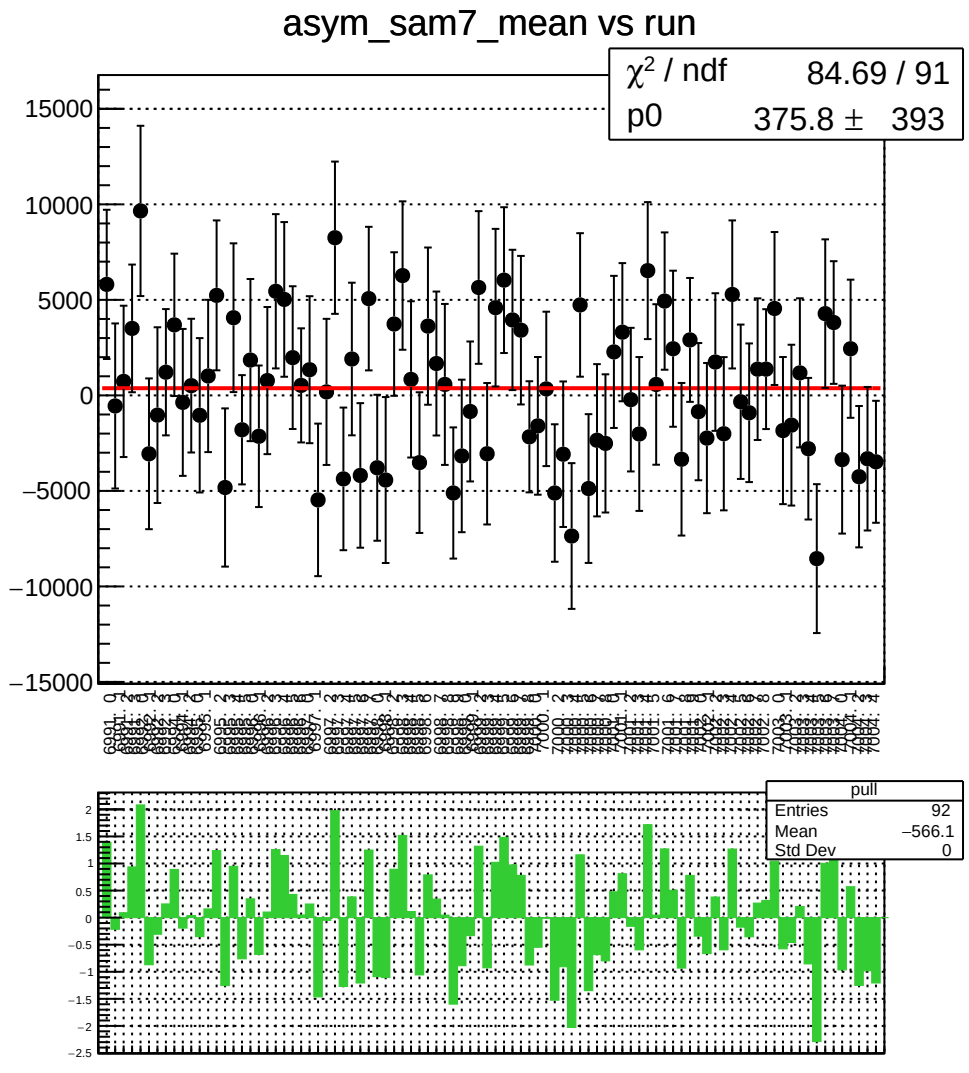

pull1D
Entries 92
Mean 0.005006
Std Dev 0.87
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

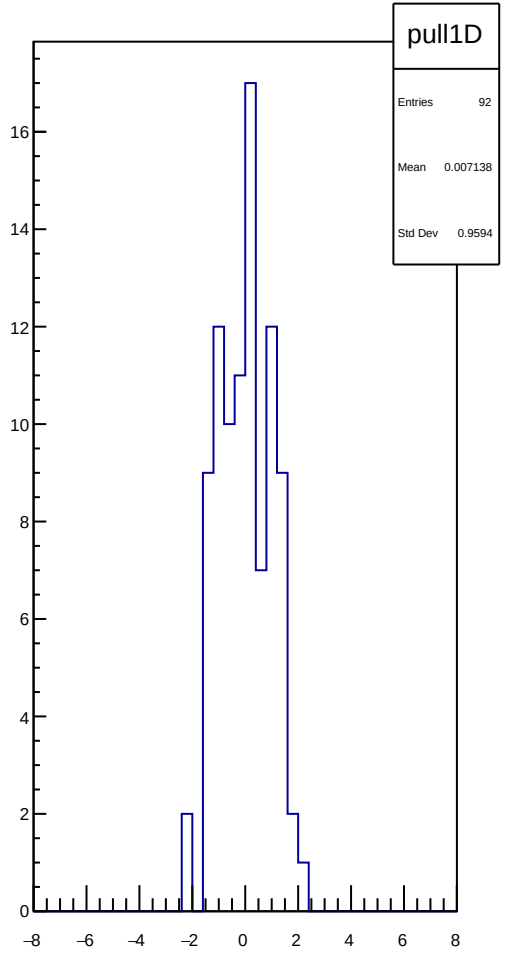

eigen_dit_asym_sam7_rms vs run
χ² / ndf 543.4 / 91
p0 68.55 ± 0.0516
73
72
71
70
69
68
67
66
65

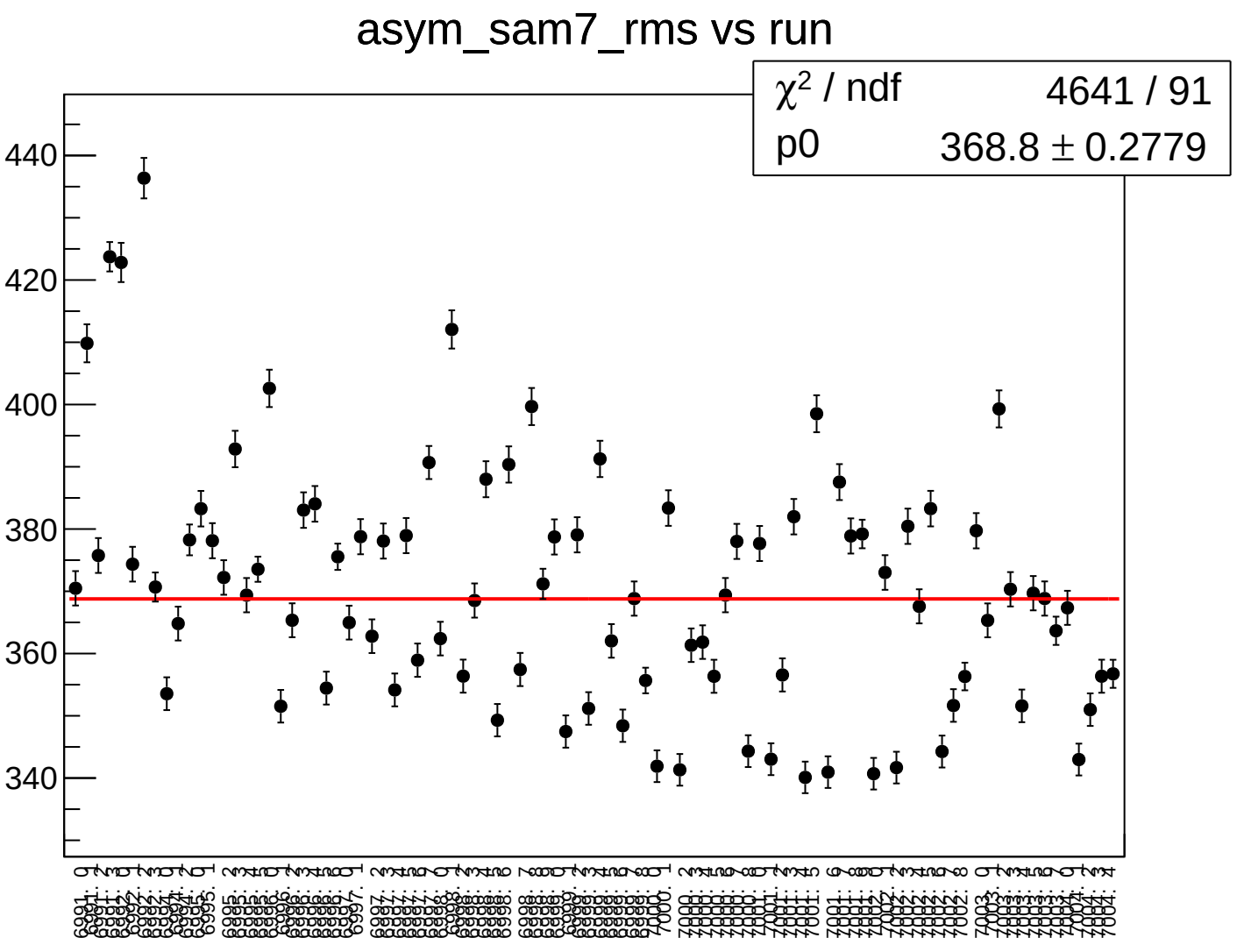

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 82.12 / 91
p0 −405.2 ± 394.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −698.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

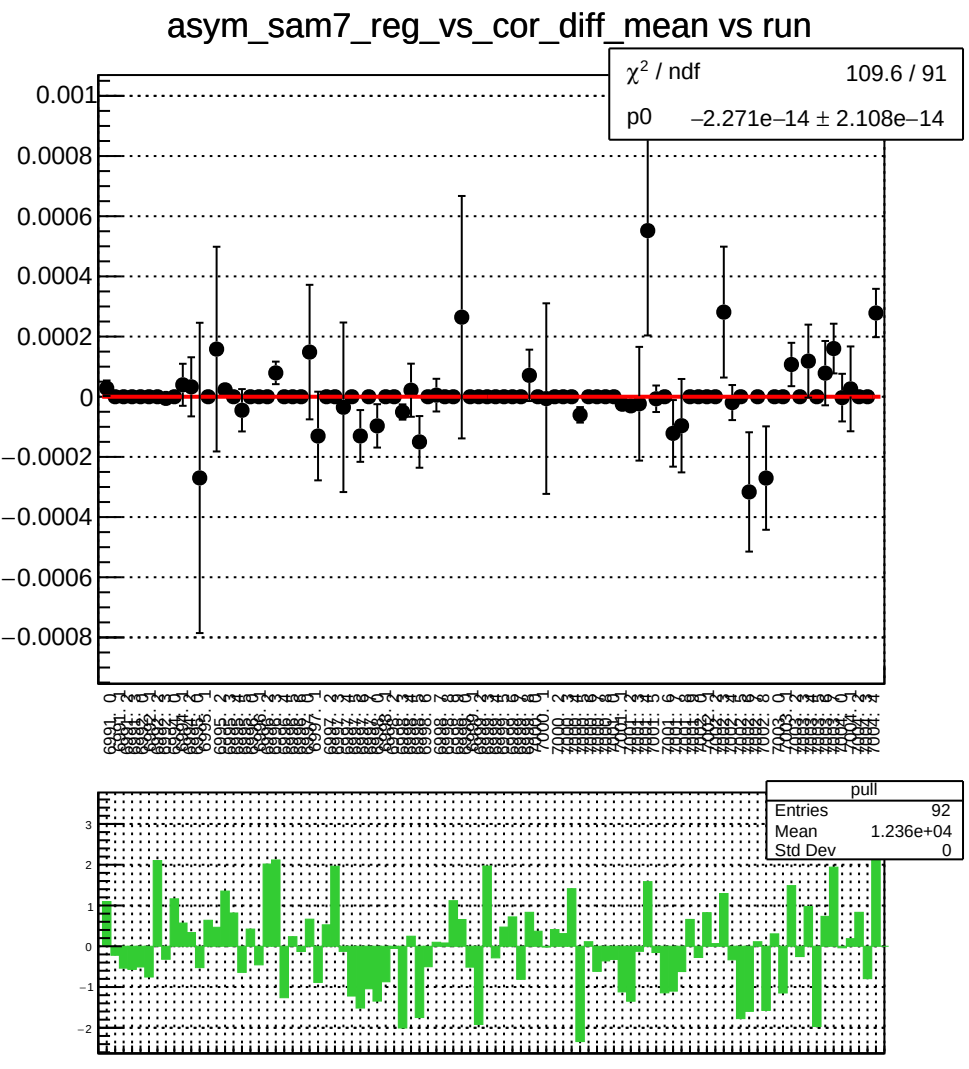

pull1D
Entries 92
Mean −0.005515
Std Dev 0.9448
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

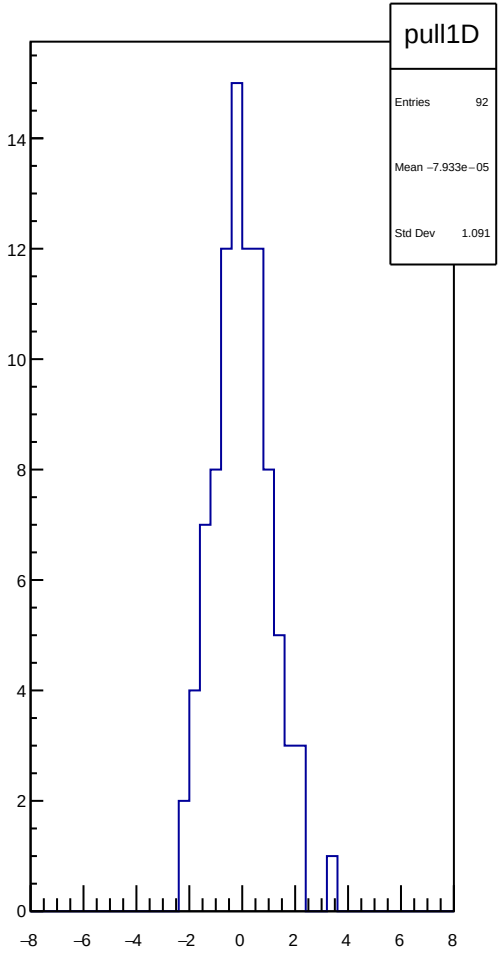

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3520 / 91
p0 370.2 ± 0.2789
420
400
380
360
340

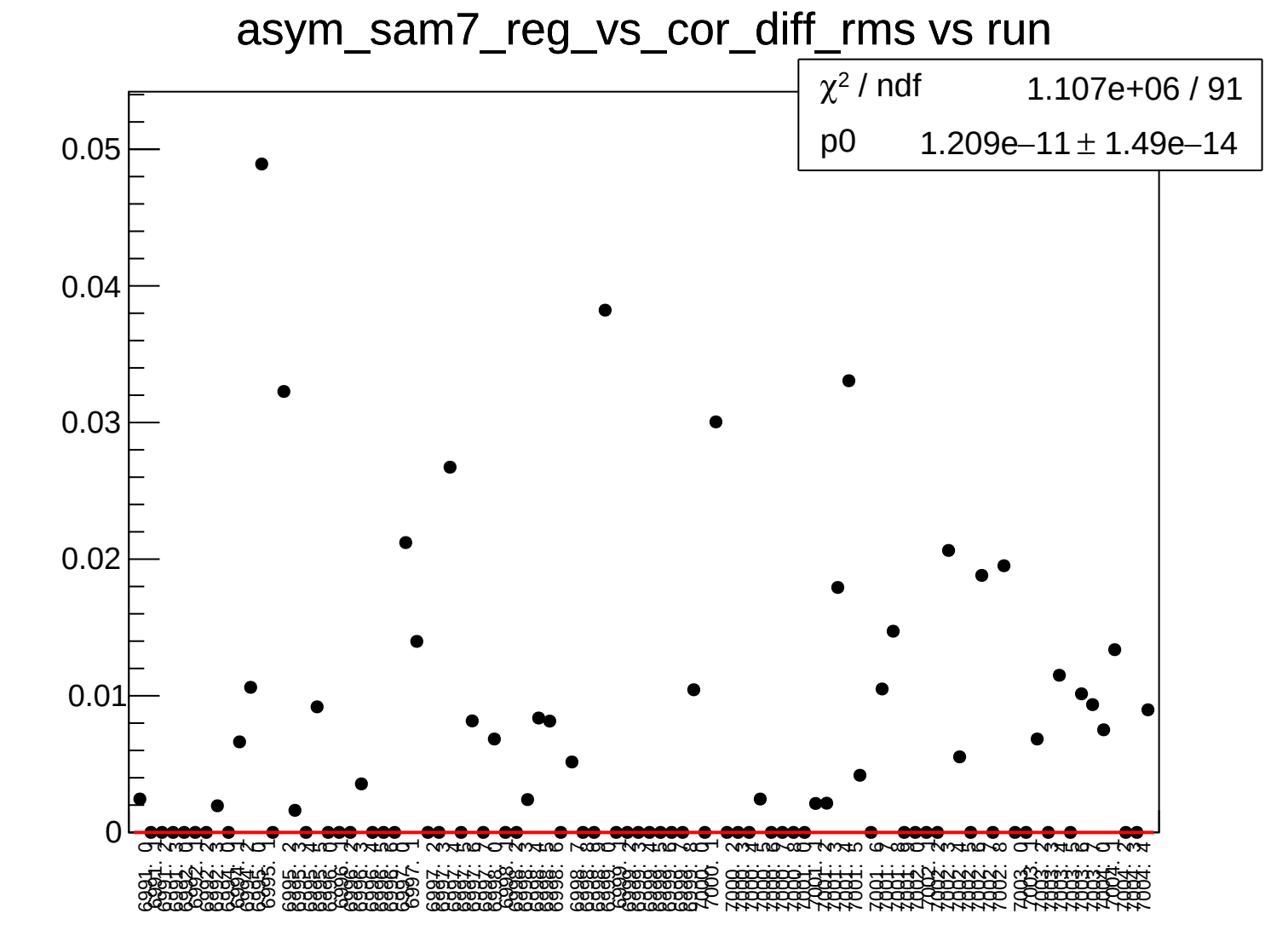

asym_sam7_mean vs run
χ² / ndf 84.69 / 91
p0 375.8 ± 393
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −566.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

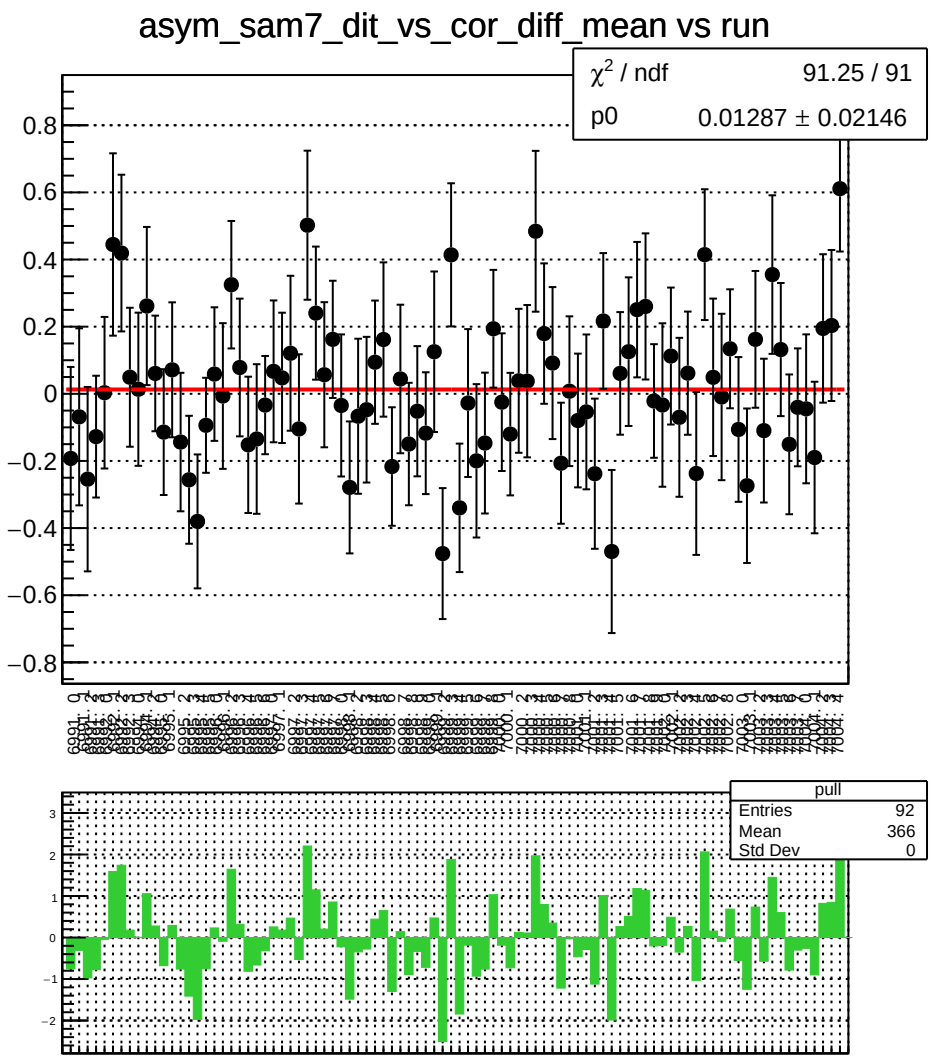

pull1D
Entries 92
Mean 0.007138
Std Dev 0.9594
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

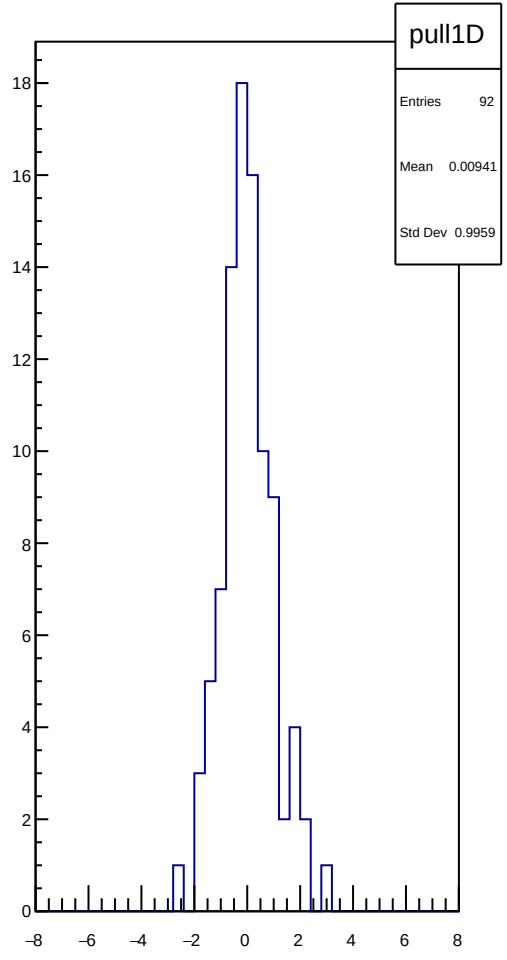

asym_sam7_rms vs run
χ² / ndf 4641 / 91
p0 368.8 ± 0.2779
440
420
400
380
360
340

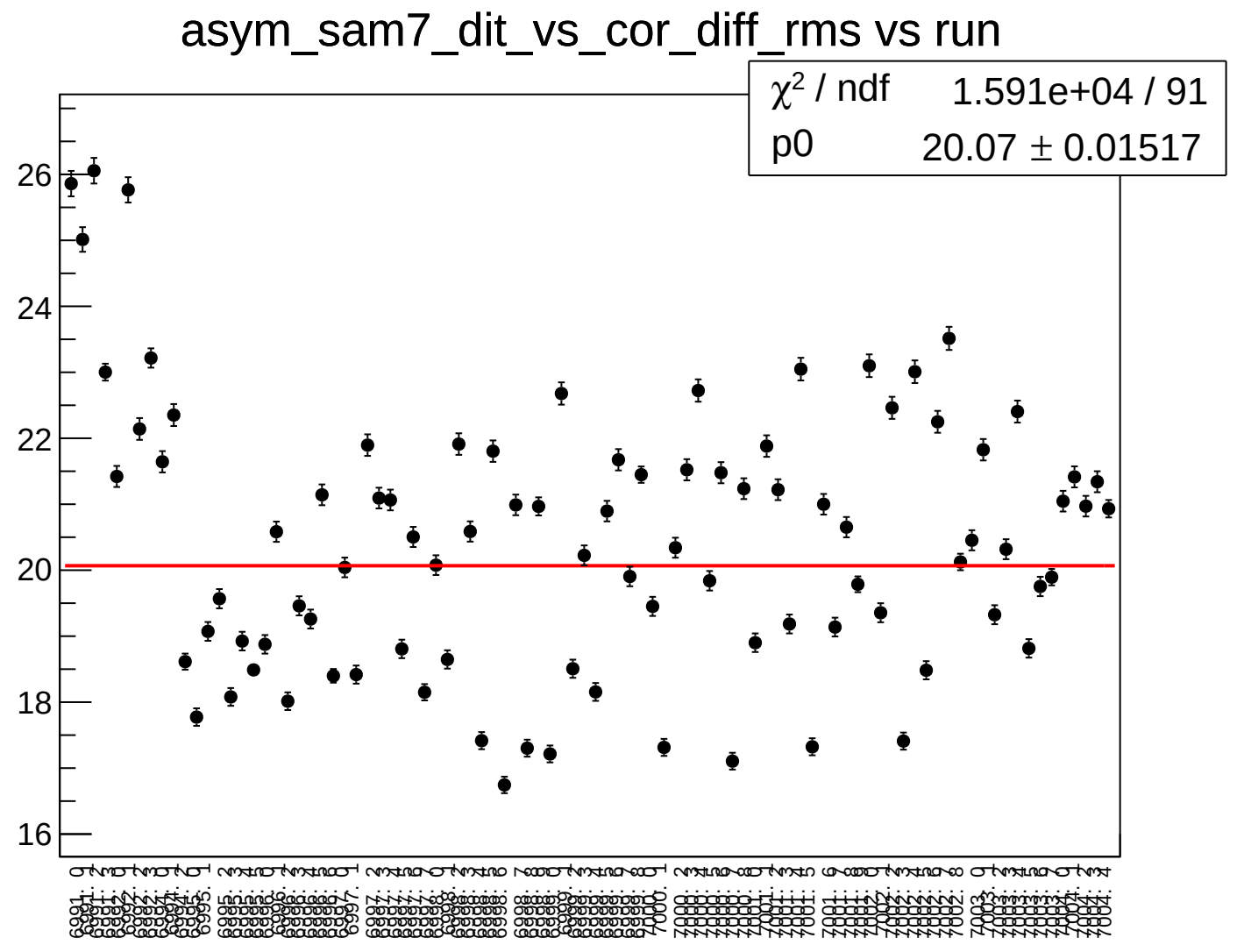

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 91
p0 −2.271e−14 ± 2.108e−14
pull
Entries 92
Mean 1.236e+04
Std Dev 0

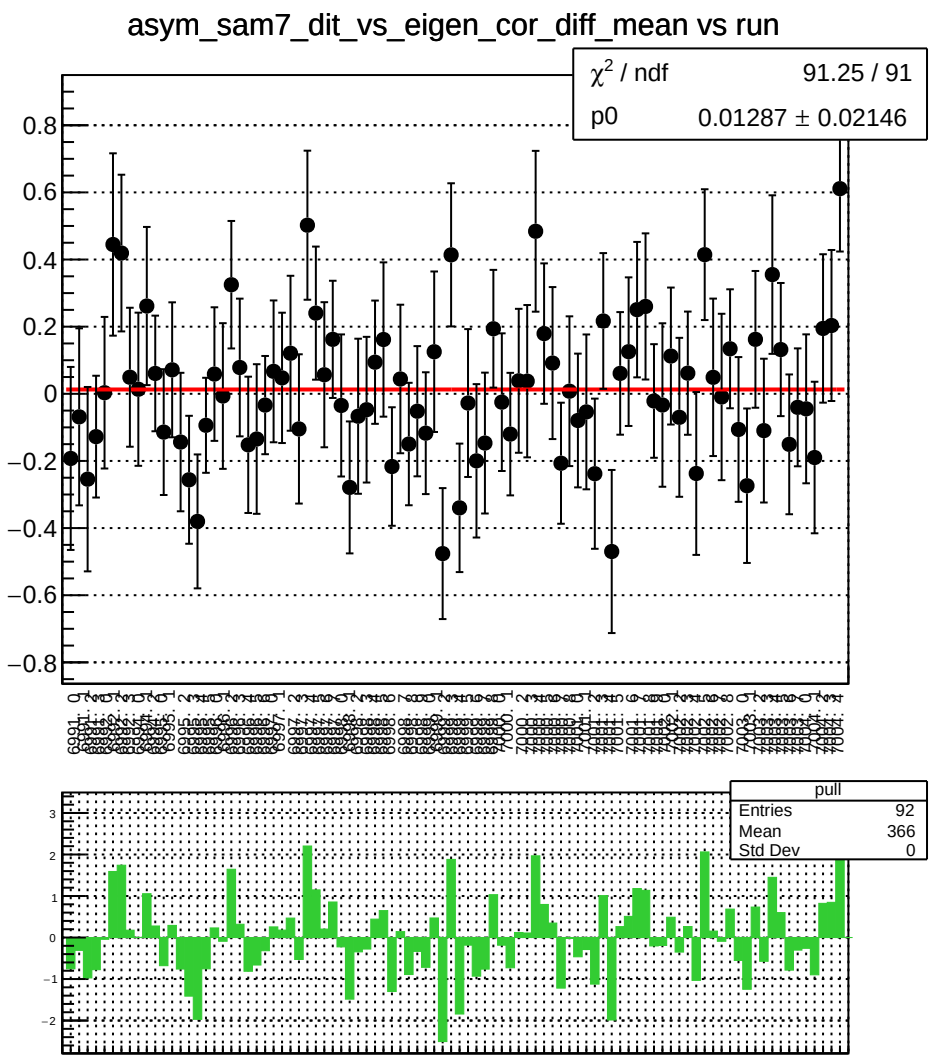

pull1D
Entries 92
Mean −7.933e−05
Std Dev 1.091

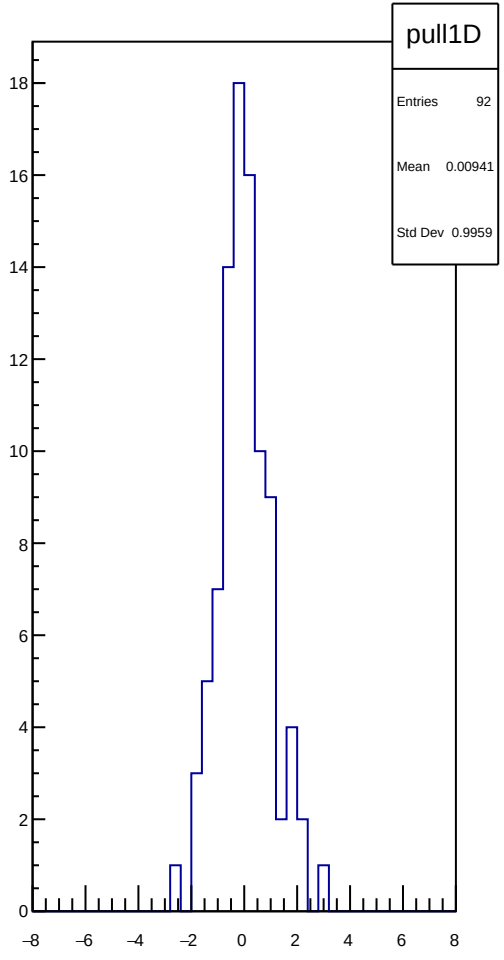

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 91
p0 1.209e−11 ± 1.49e−14
0.05
0.04
0.03
0.02
0.01
0

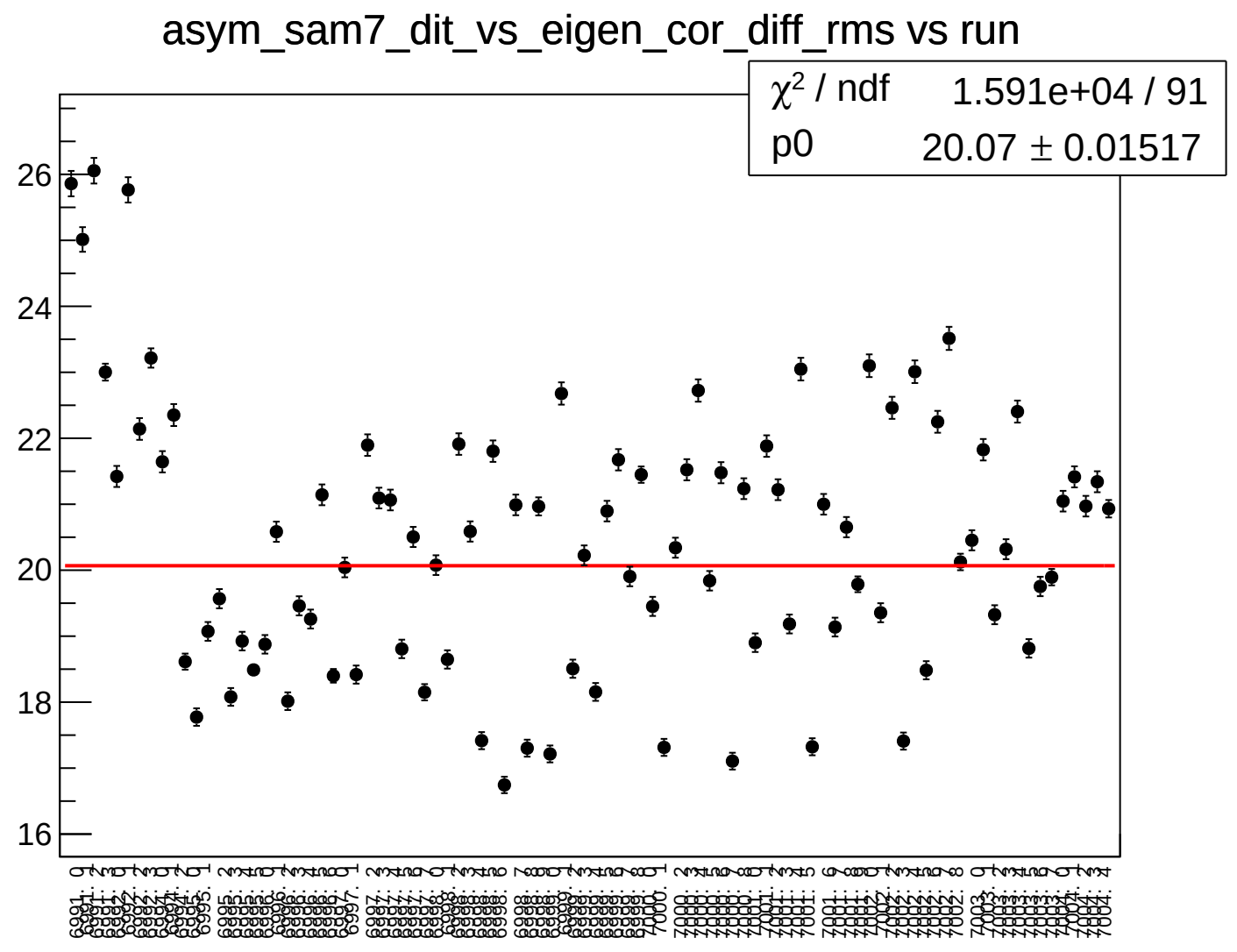

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 91.25 / 91
p0 0.01287 ± 0.02146
pull
Entries 92
Mean 366
Std Dev 0

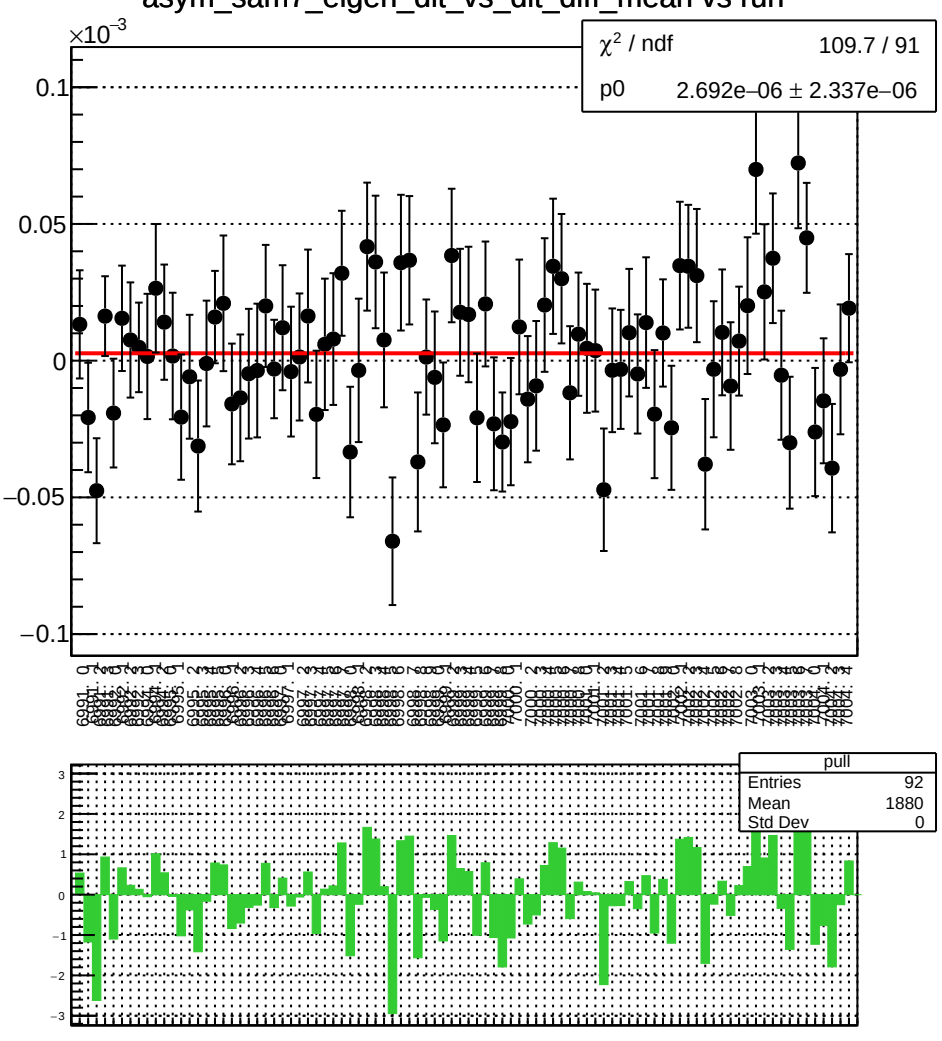

pull1D
Entries 92
Mean 0.00941
Std Dev 0.9959

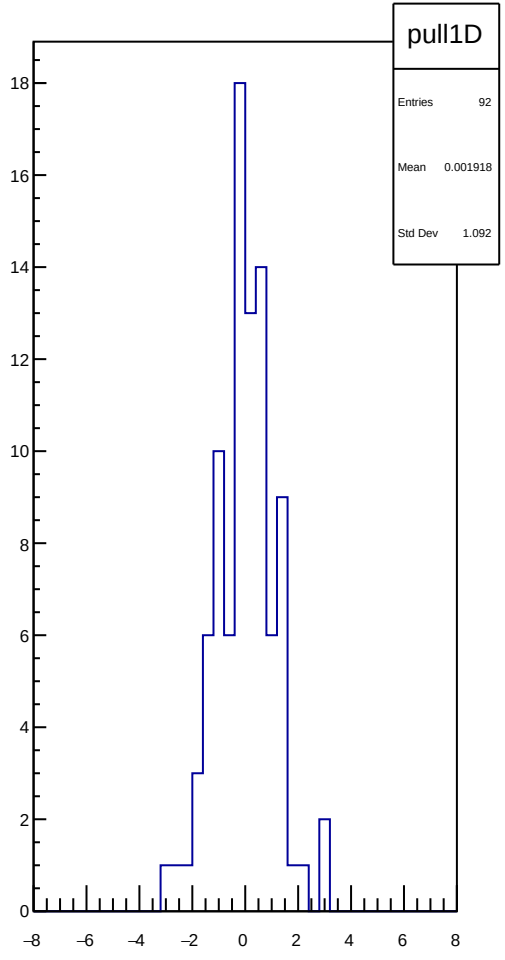

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.591e+04 / 91
p0 20.07 ± 0.01517
26
24
22
20
18
16


asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.25 / 91
p0 0.01287 ± 0.02146
pull
Entries 92
Mean 366
Std Dev 0


pull1D
Entries 92
Mean 0.00941
Std Dev 0.9959


asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.591e+04 / 91
p0 20.07 ± 0.01517
26
24
22
20
18
16


asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.7 / 91
p0 2.692e−06 ± 2.337e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 1880
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 92
Mean 0.001918
Std Dev 1.092
18
16
14
12
10
8
6
4
2
0
−8
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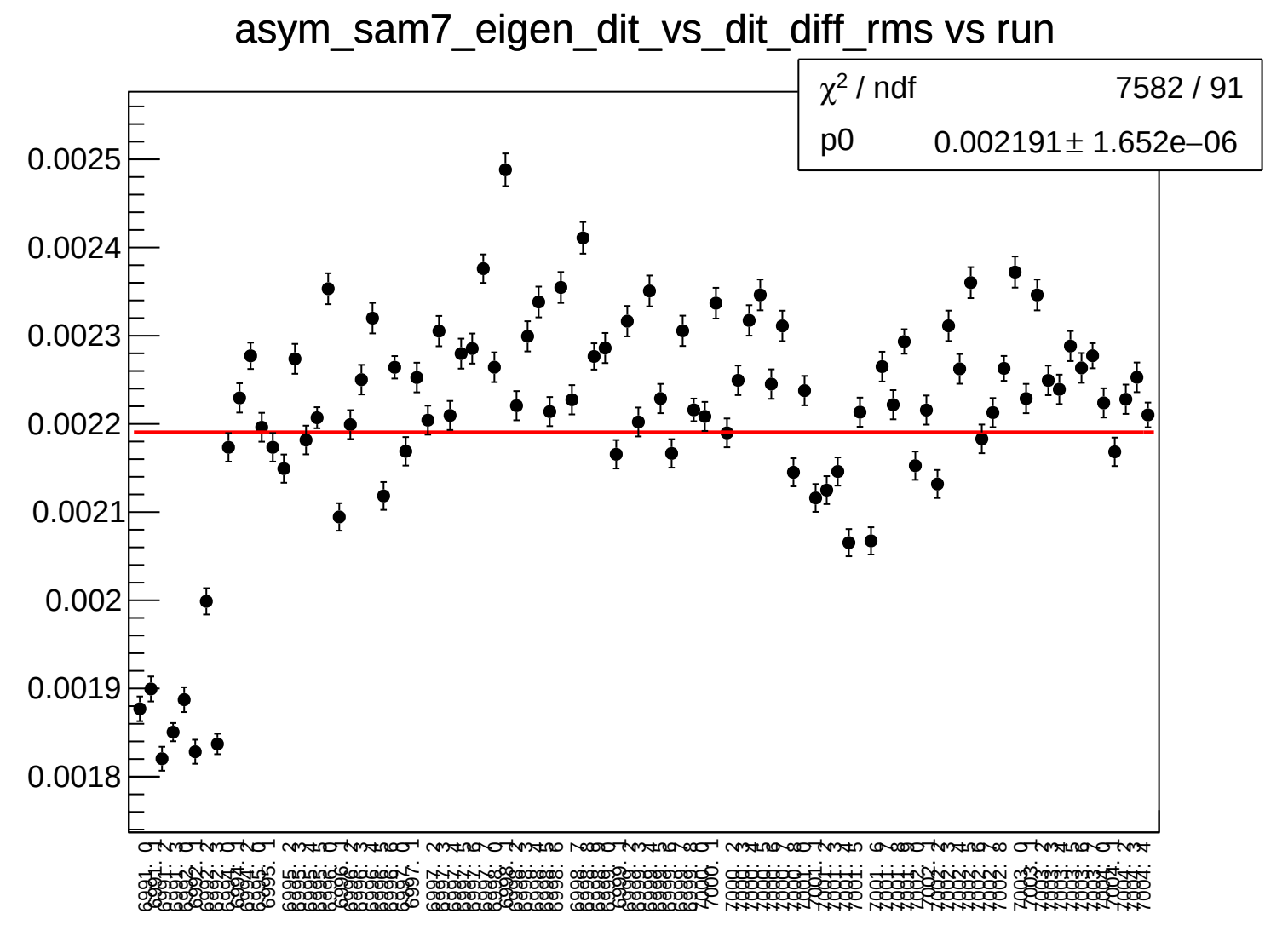
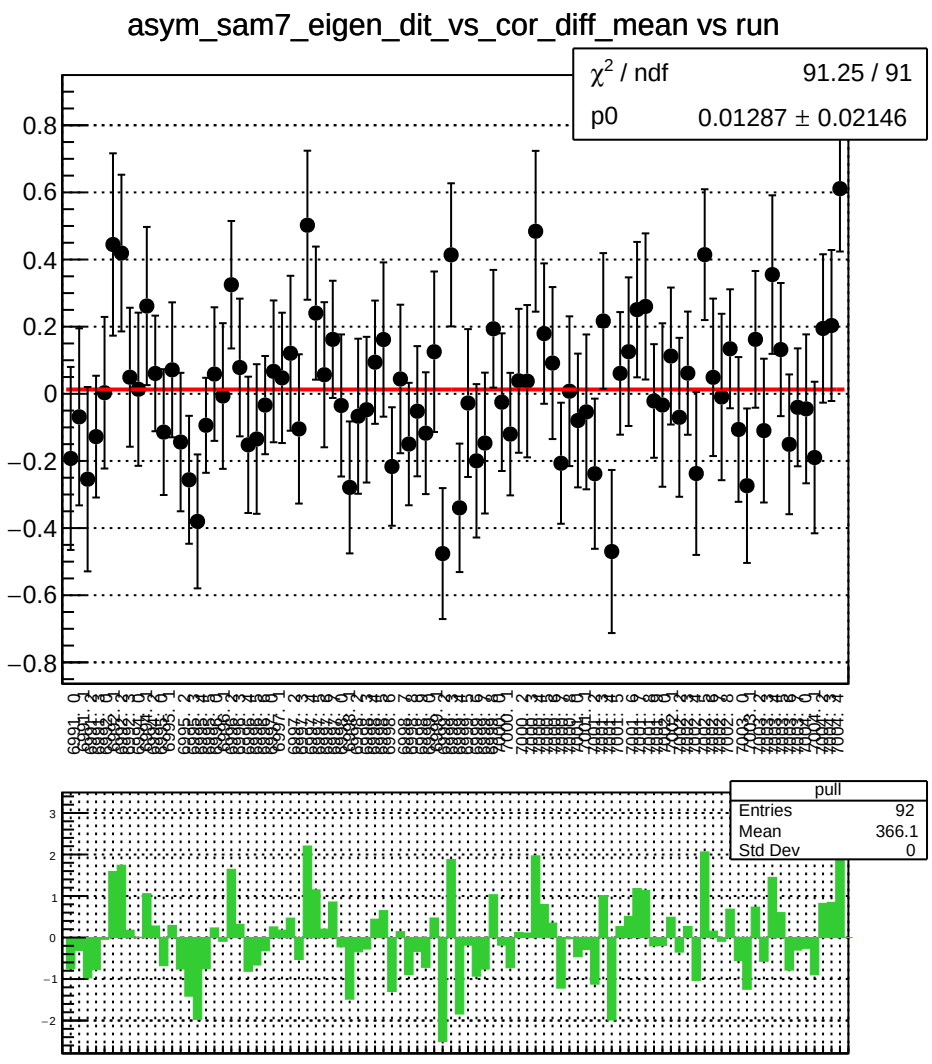
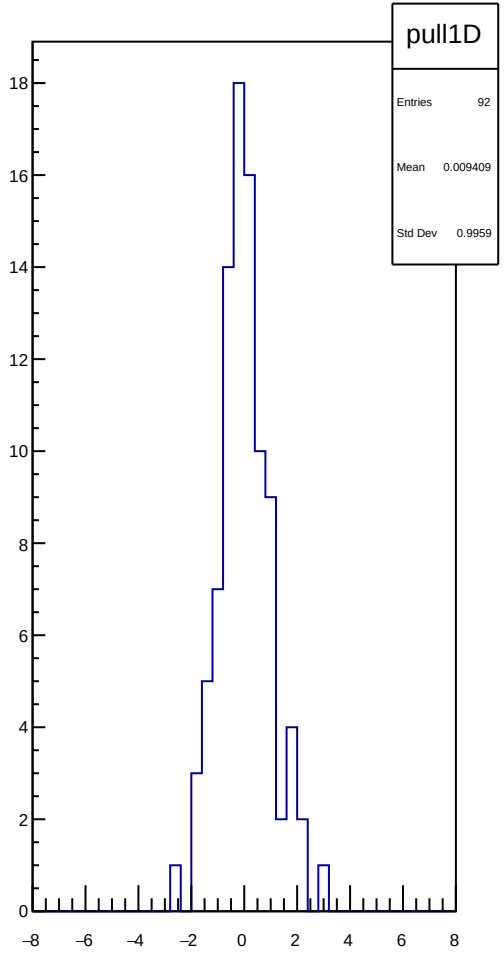
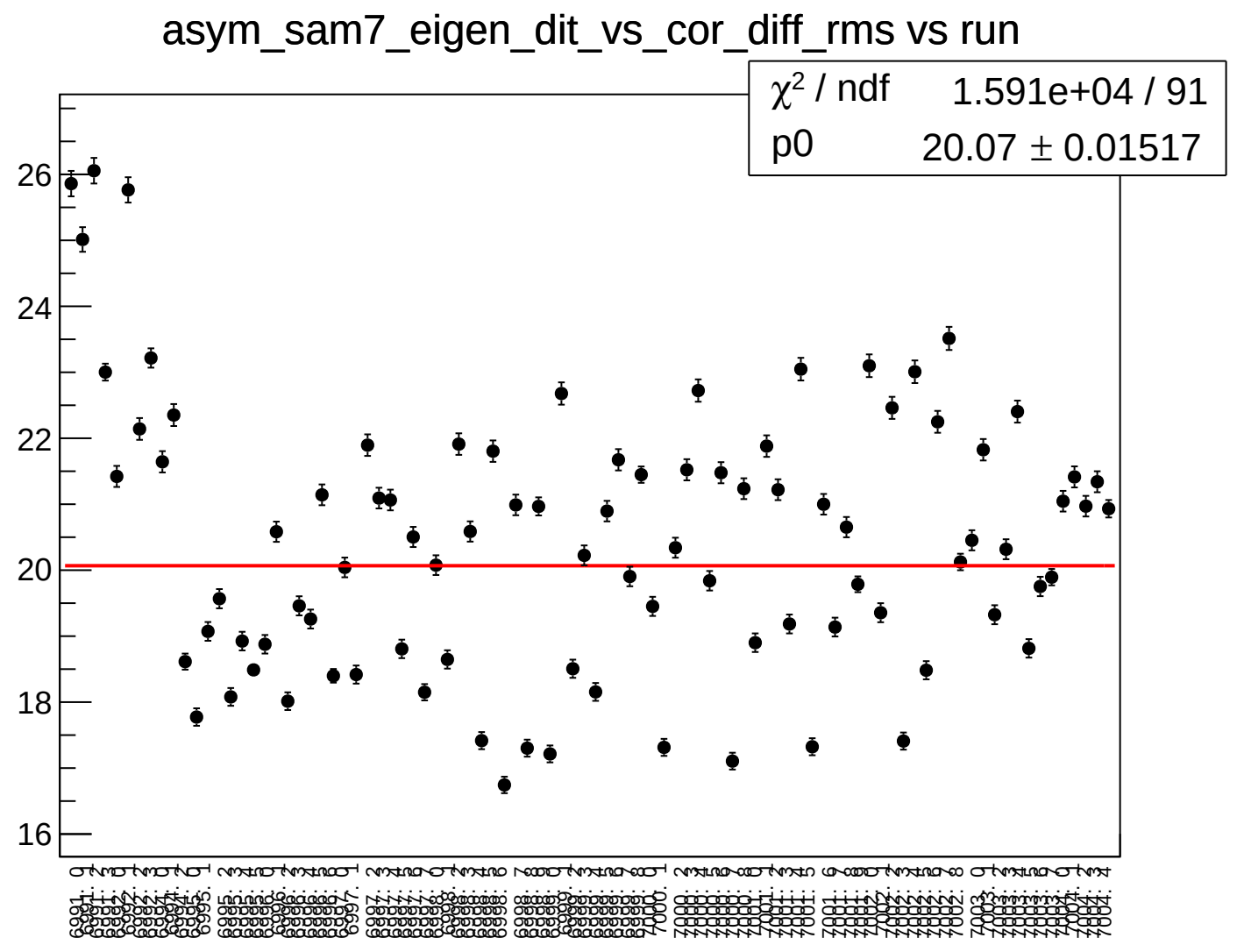
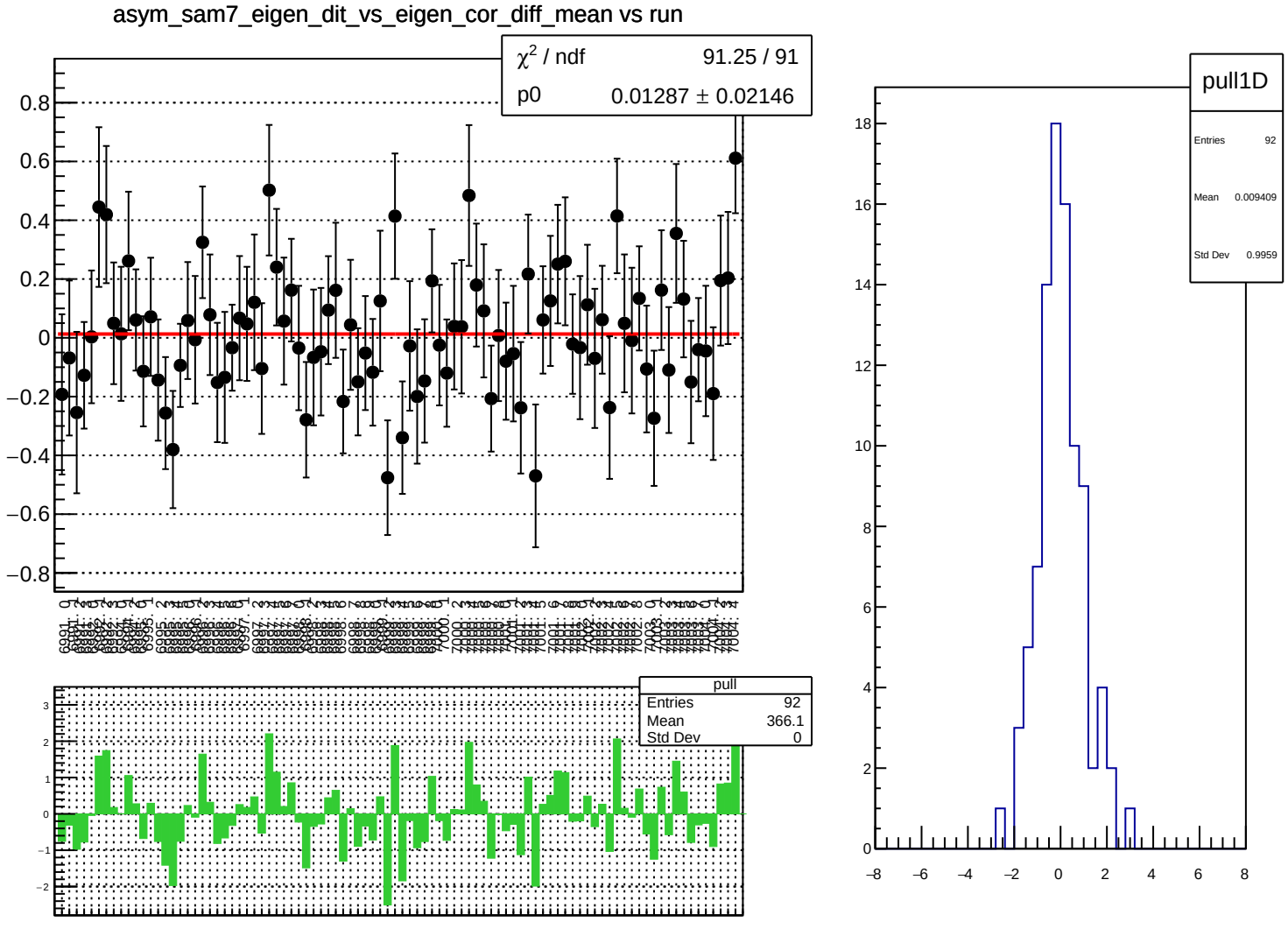
0
2
4
6
8

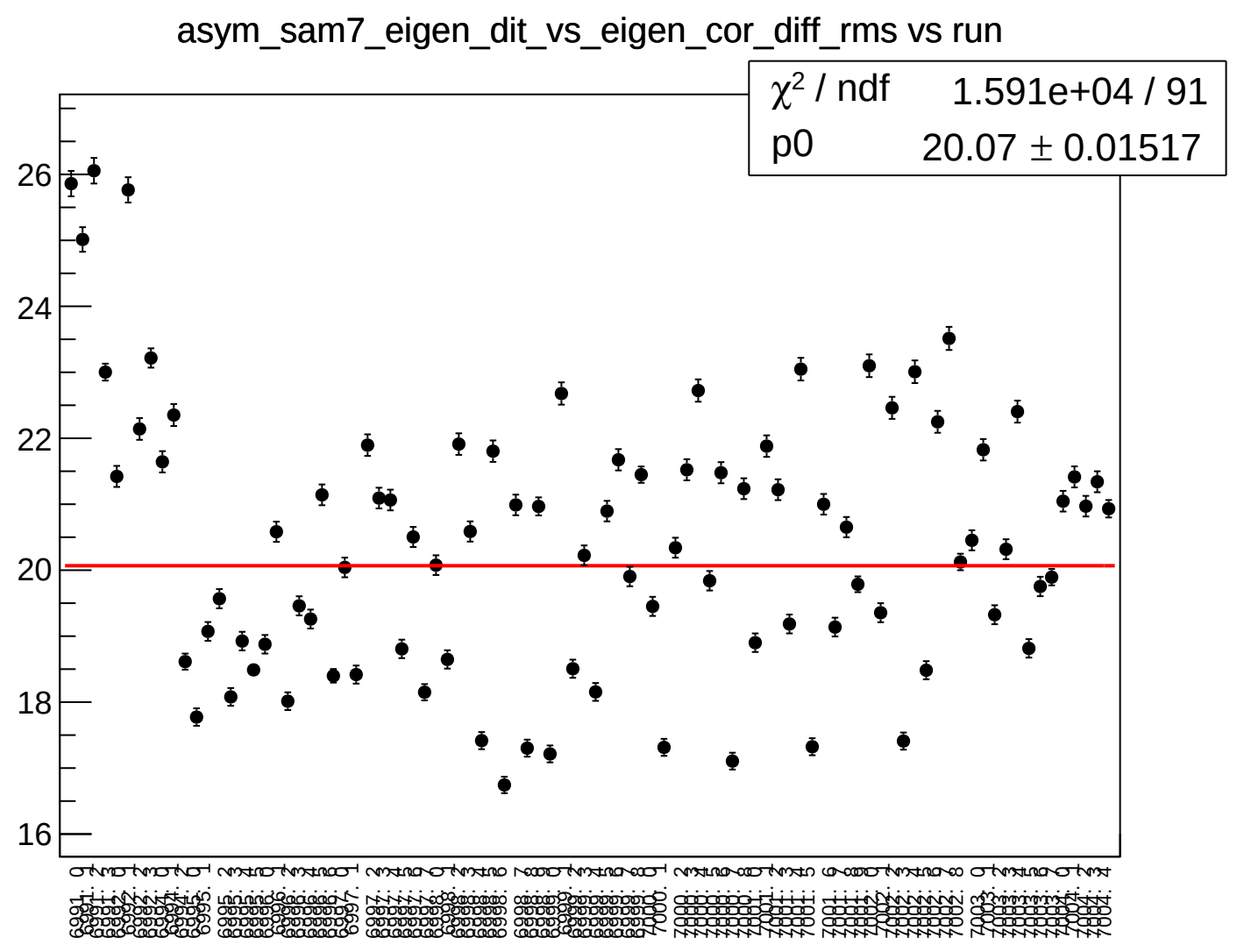

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7582 / 91
p0 0.002191 ± 1.652e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

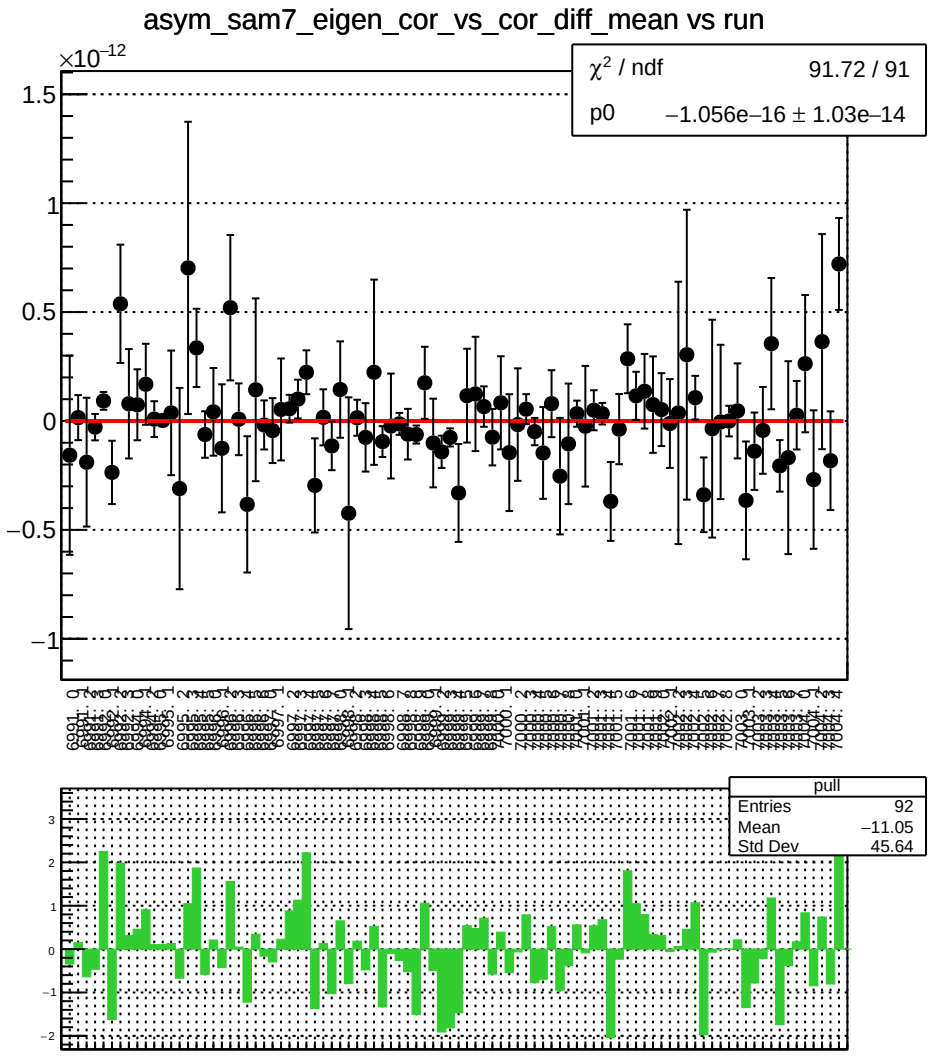

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.25 / 91
p0 0.01287 ± 0.02146
pull
Entries 92
Mean 366.1
Std Dev 0

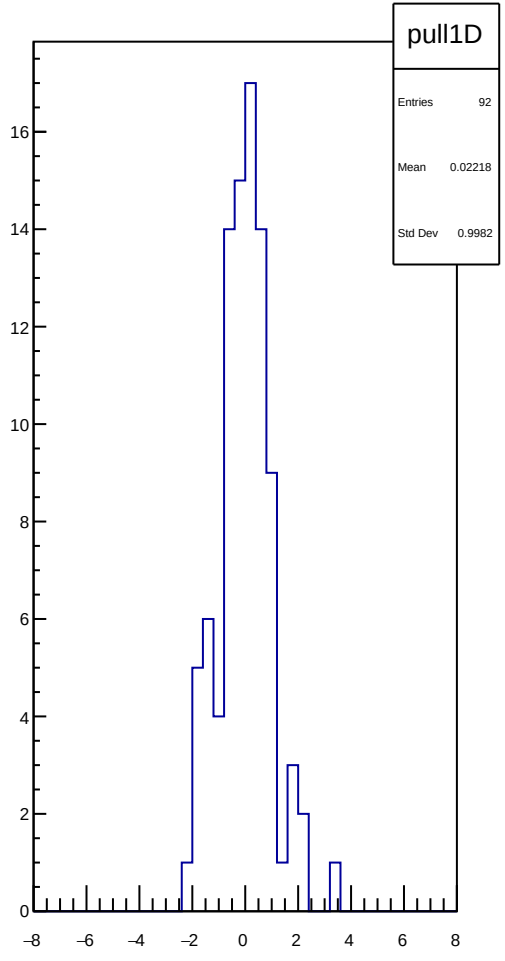

pull1D
Entries 92
Mean 0.009409
Std Dev 0.9959

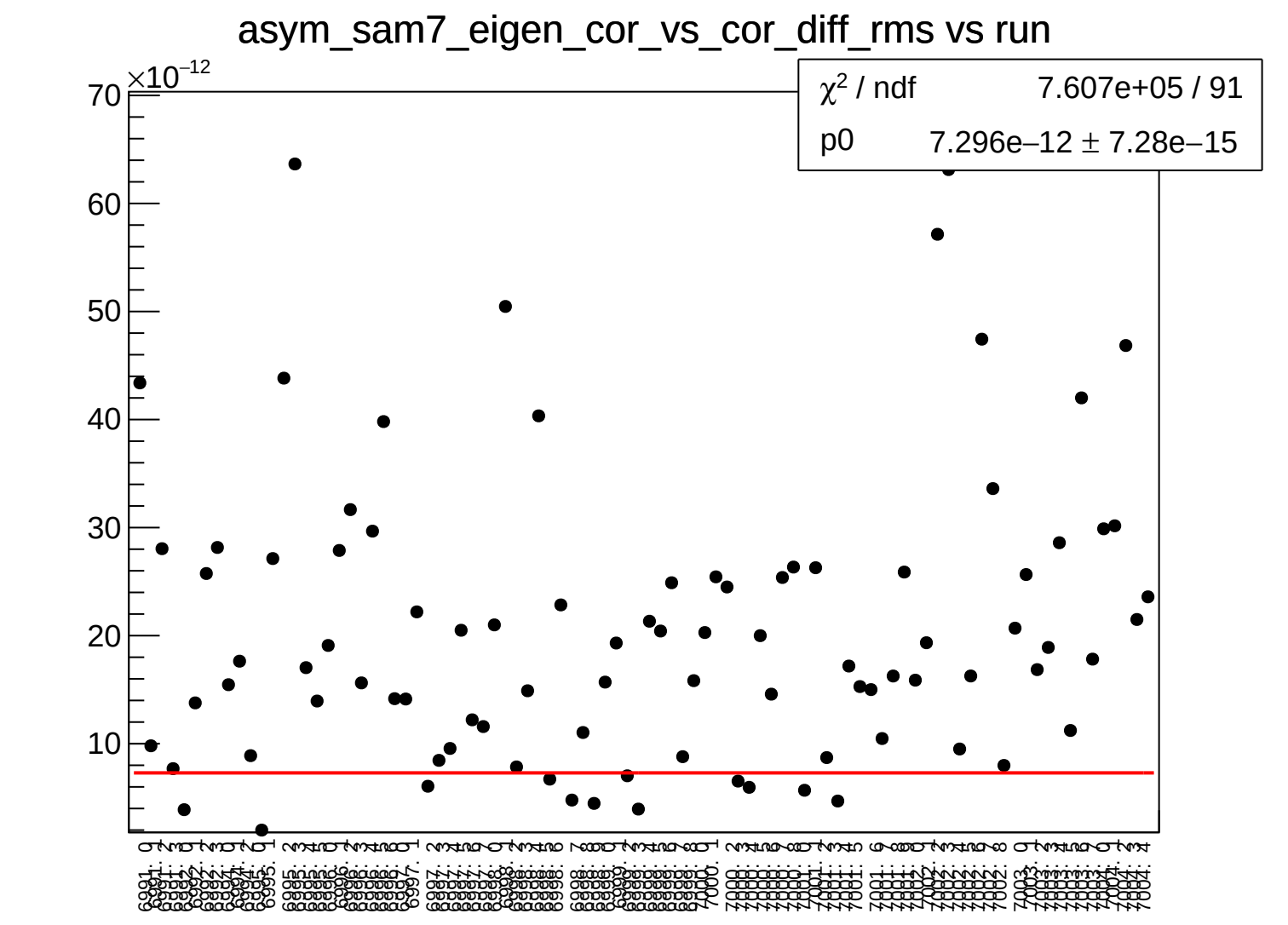

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.591e+04 / 91
p0 20.07 ± 0.01517
26
24
22
20
18
16

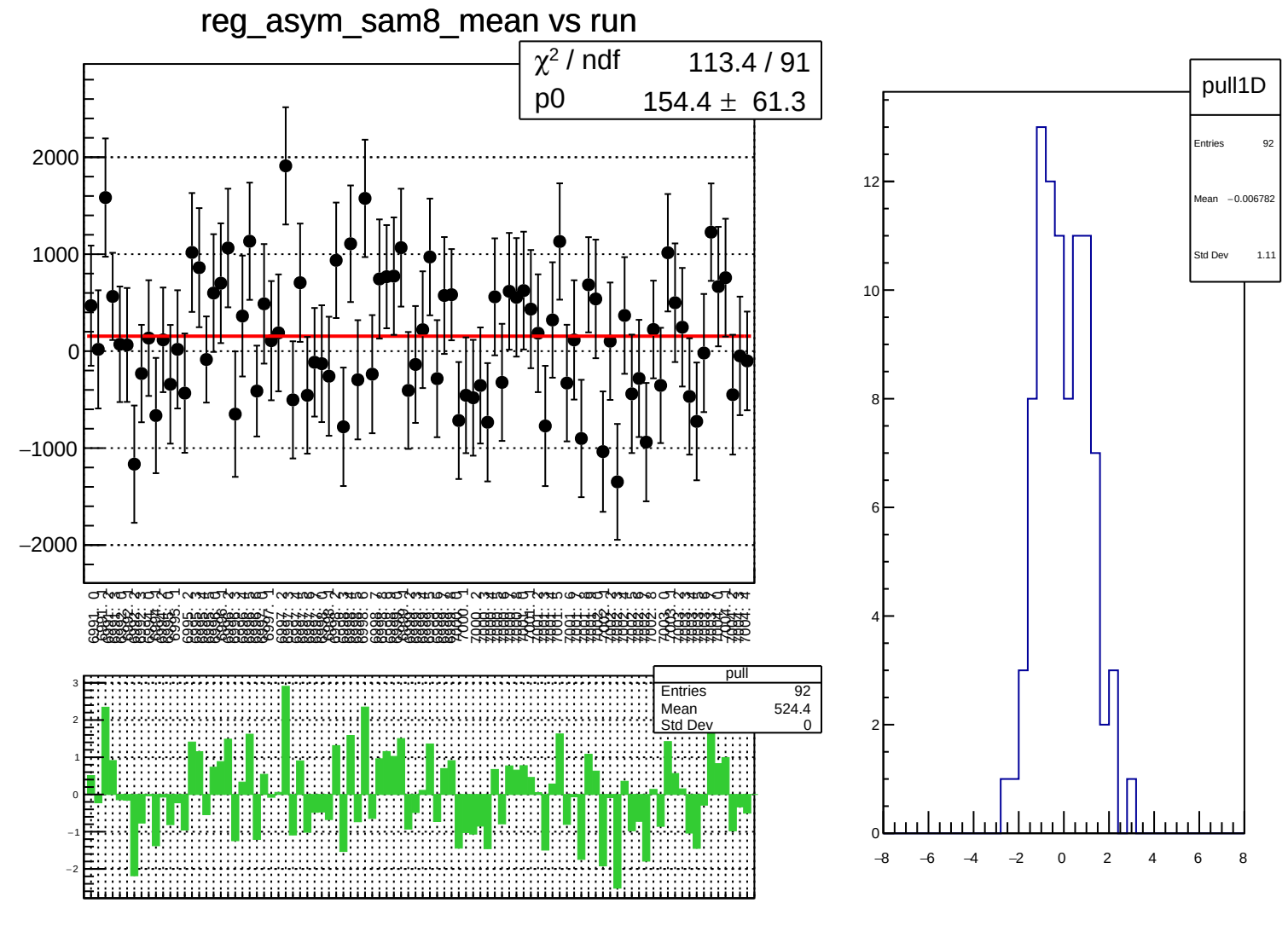

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.25 / 91
p0 0.01287 ± 0.02146
pull
Entries 92
Mean 366.1
Std Dev 0
pull1D
Entries 92
Mean 0.009409
Std Dev 0.9959

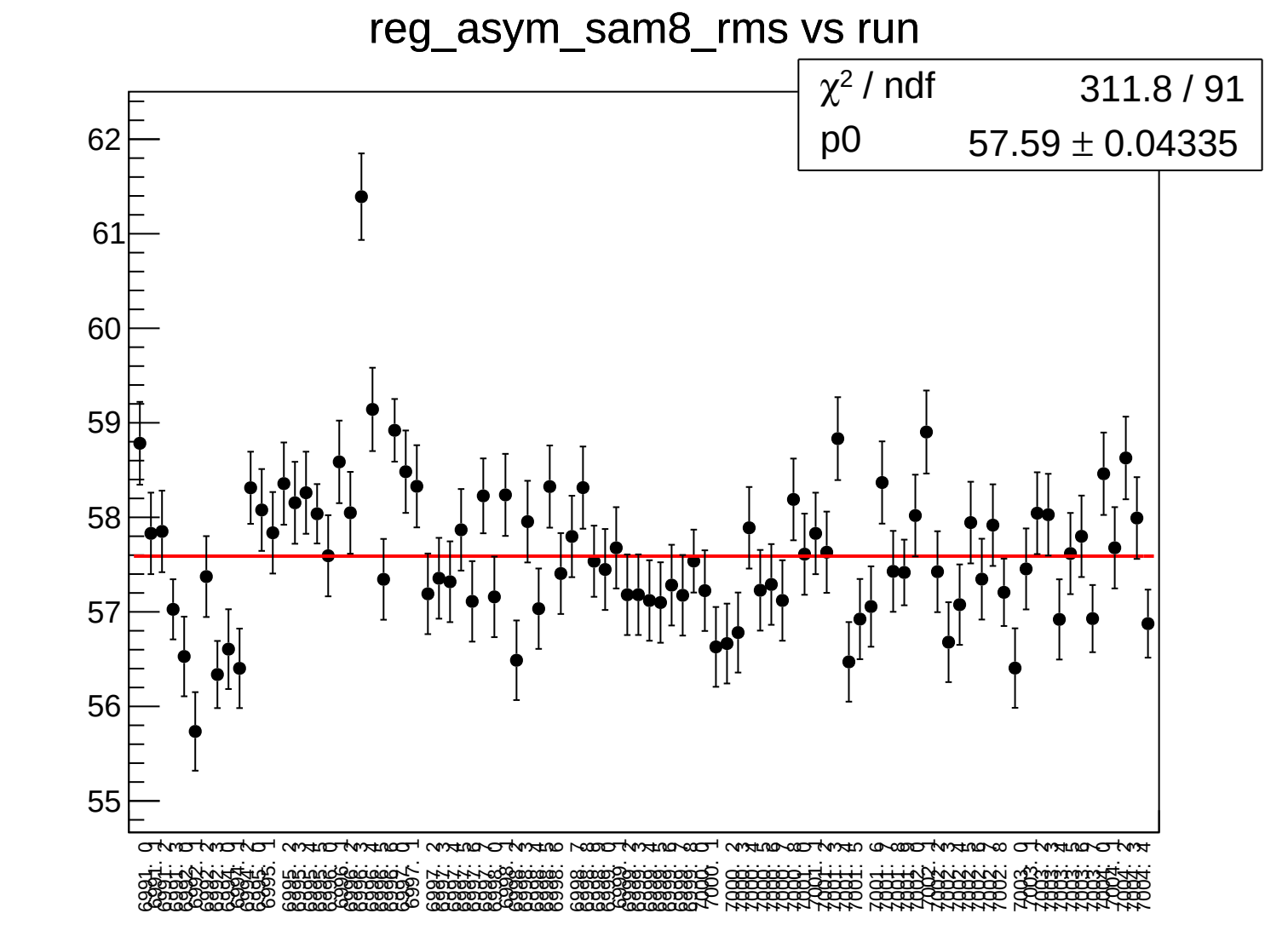

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.591e+04 / 91
p0 20.07 ± 0.01517
26
24
22
20
18
16

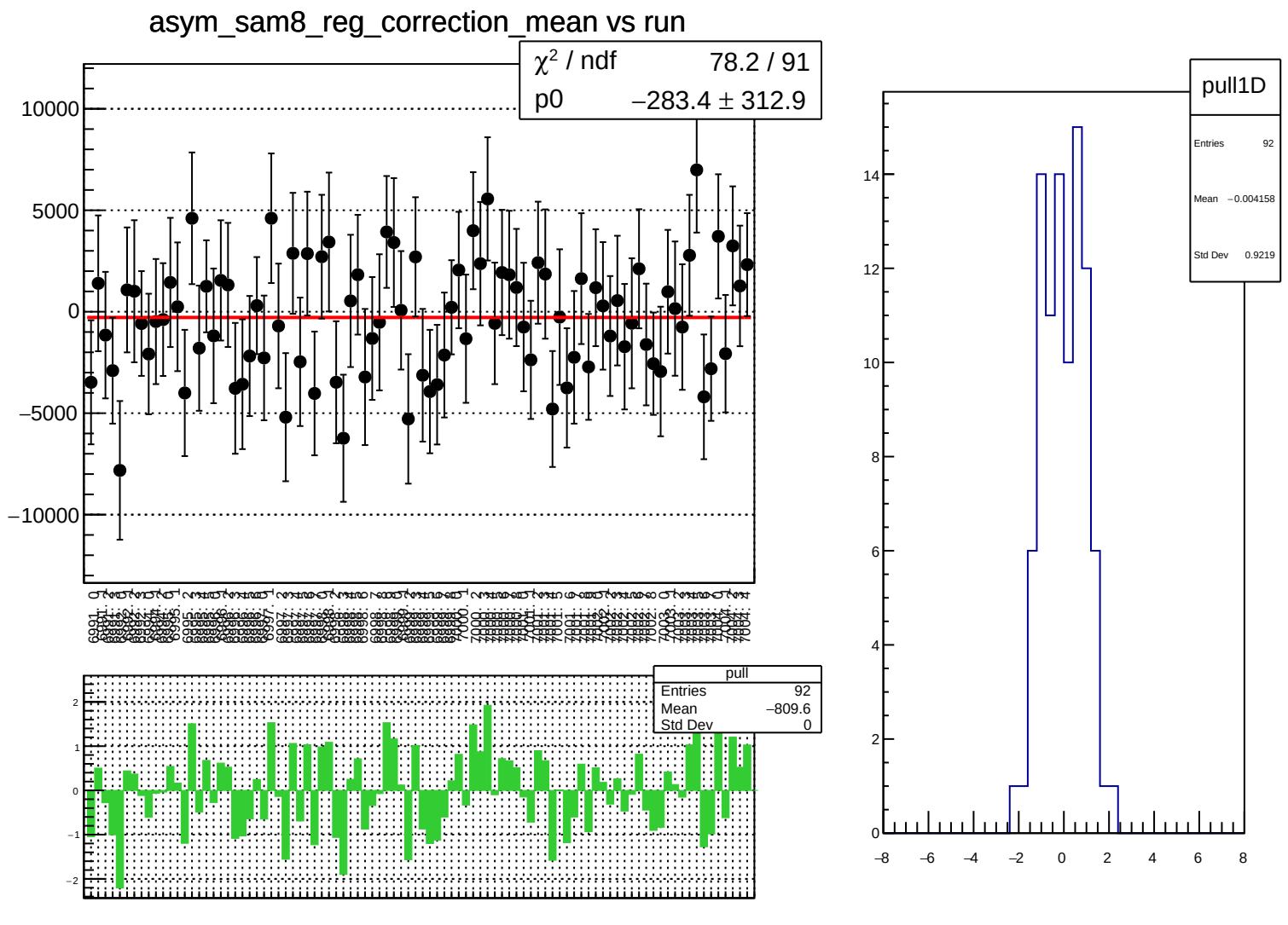

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.72 / 91
p0 −1.056e−16 ± 1.03e−14
1.5
1
0.5
0
−0.5
−1
pull
Entries 92
Mean −11.05
Std Dev 45.64
3
2
1
0
−1
−2

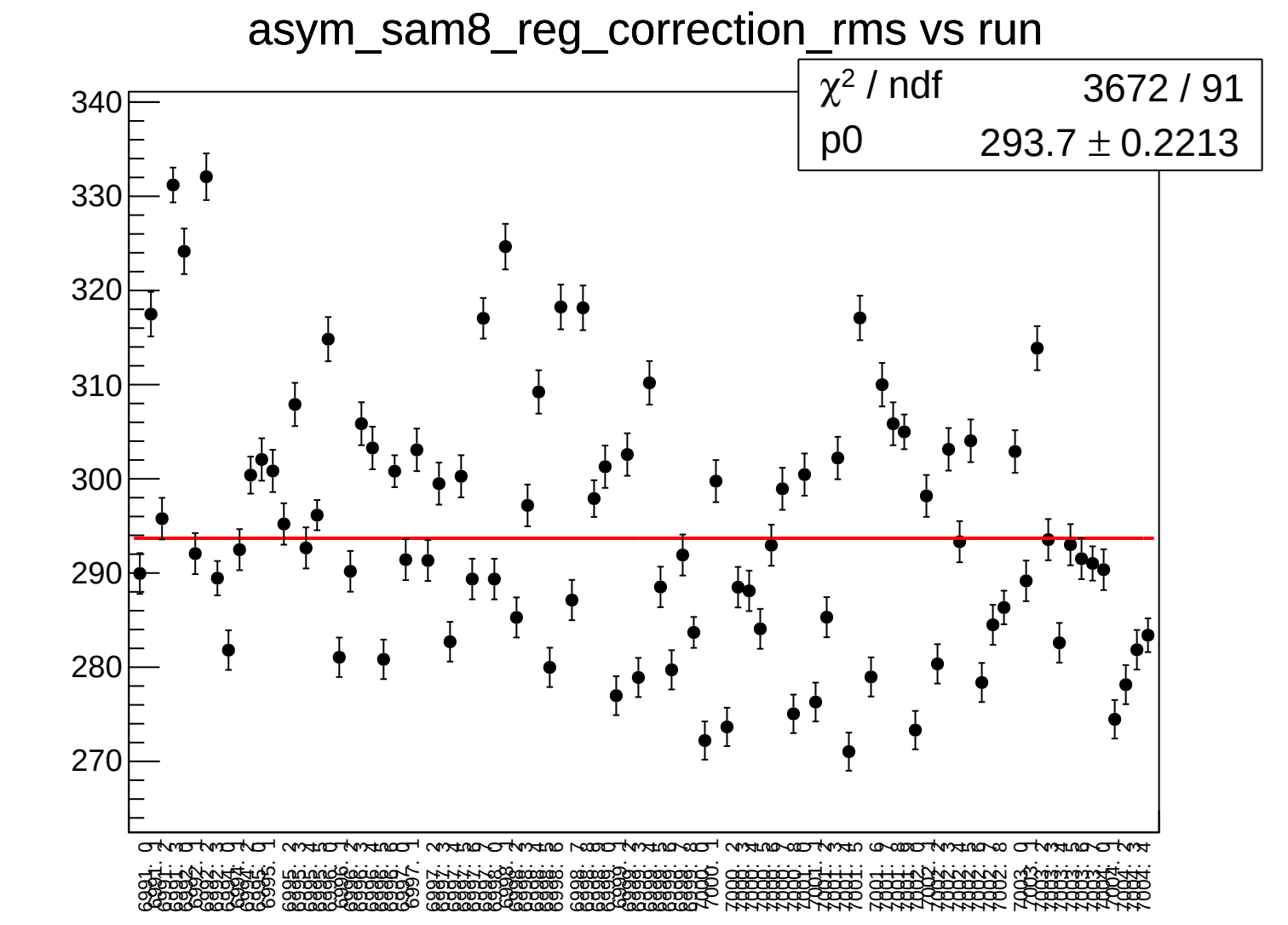

pull1D
Entries 92
Mean 0.02218
Std Dev 0.9982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

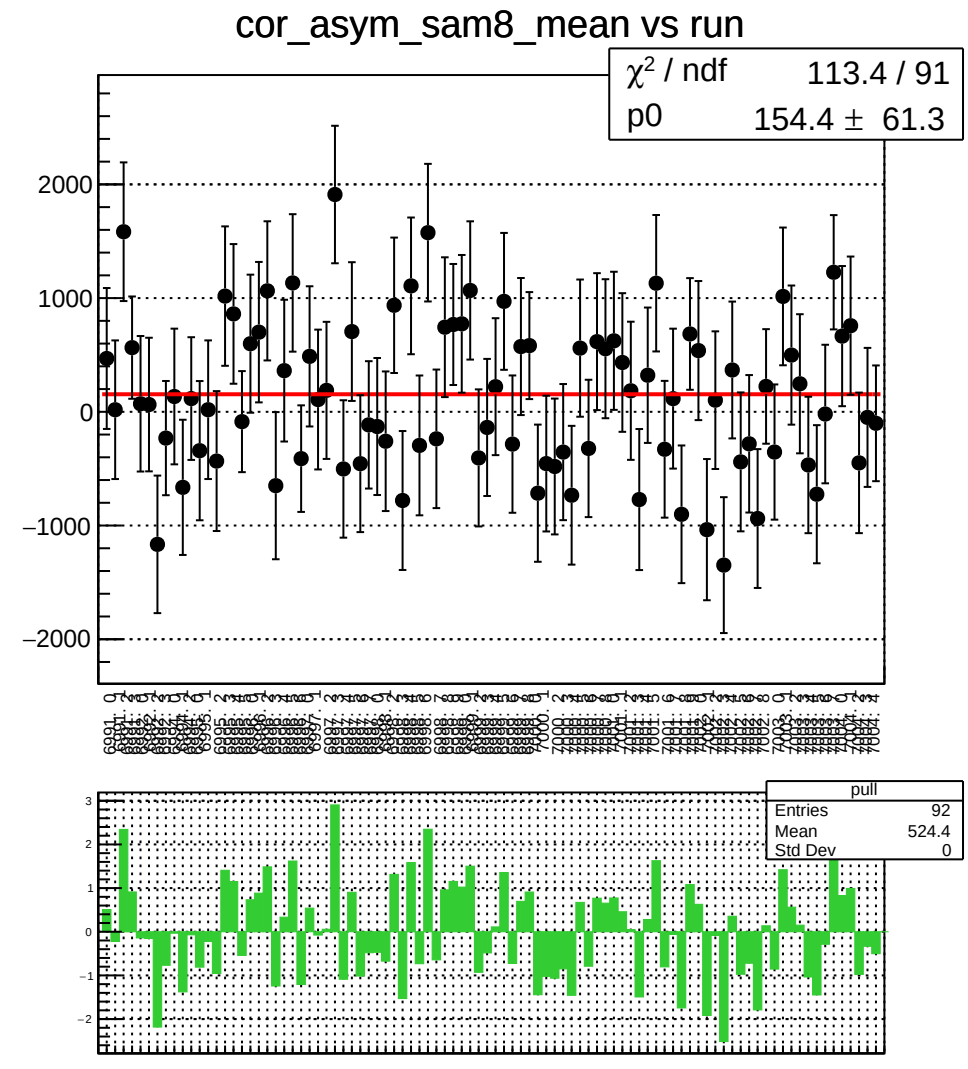

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 7.607e+05 / 91
p0 7.296e−12 ± 7.28e−15

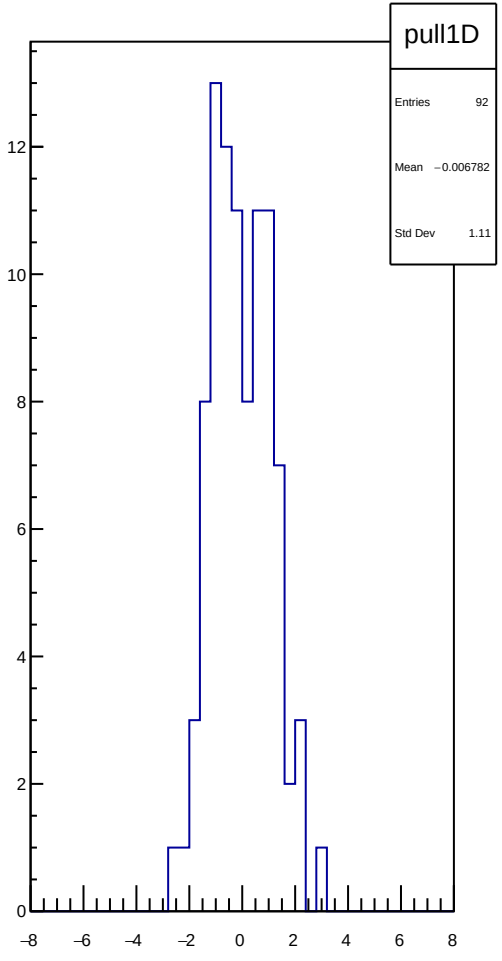

reg_asym_sam8_mean vs run
χ² / ndf 113.4 / 91
p0 154.4 ± 61.3
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 524.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006782
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

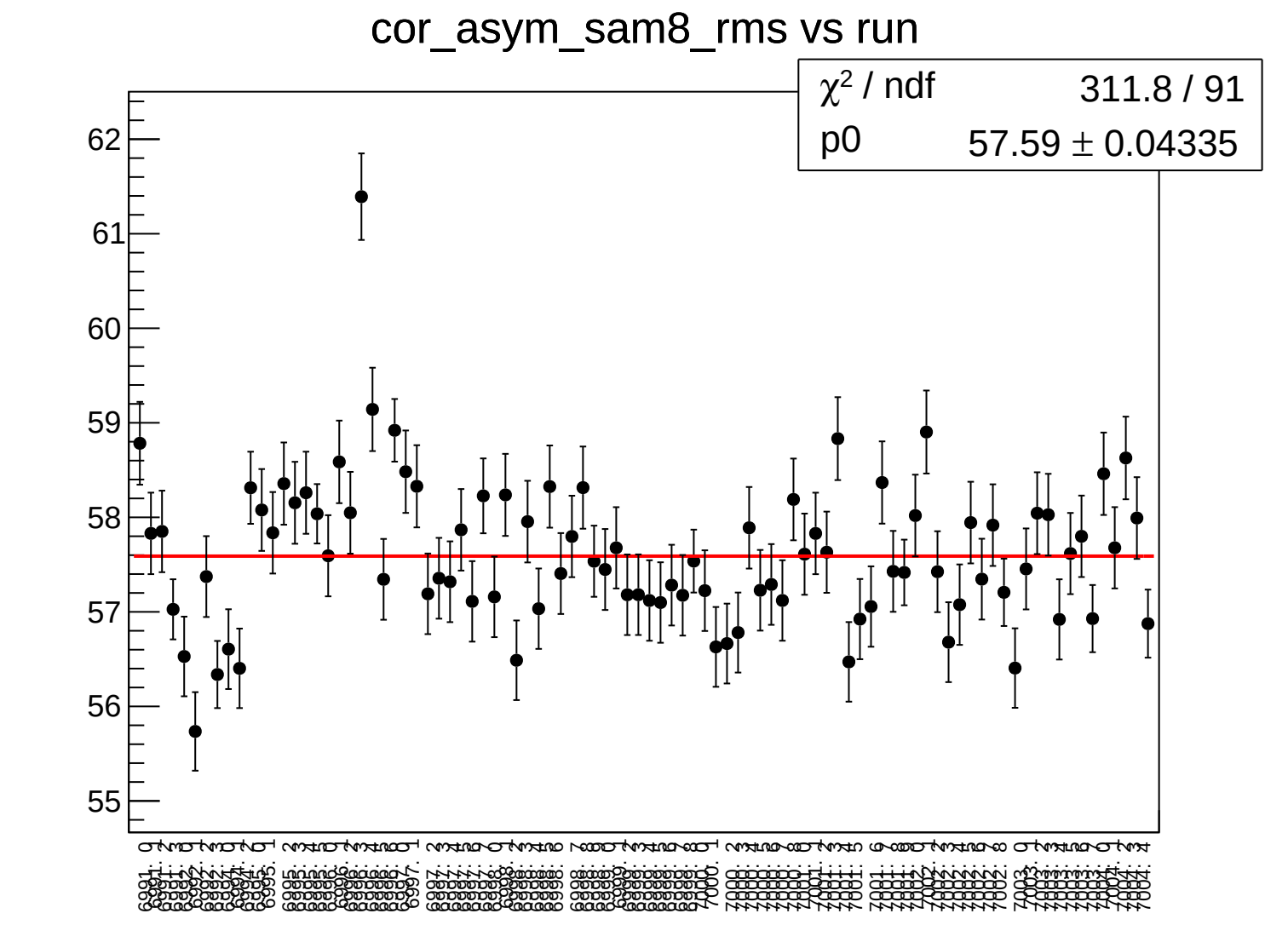

reg_asym_sam8_rms vs run
χ² / ndf 311.8 / 91
p0 57.59 ± 0.04335
62
61
60
59
58
57
56
55

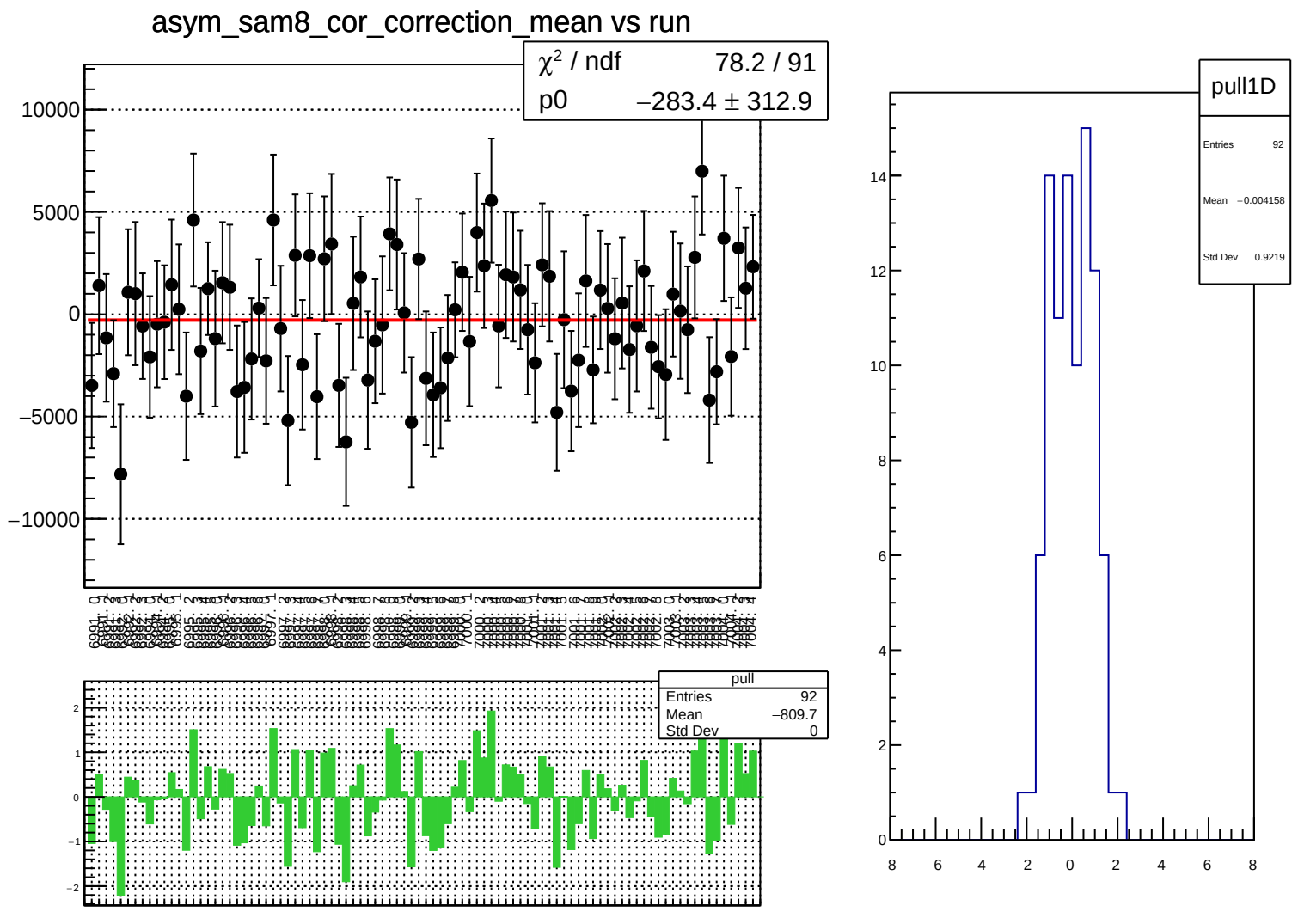

asym_sam8_reg_correction_mean vs run
χ² / ndf 78.2 / 91
p0 −283.4 ± 312.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −809.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004158
Std Dev 0.9219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

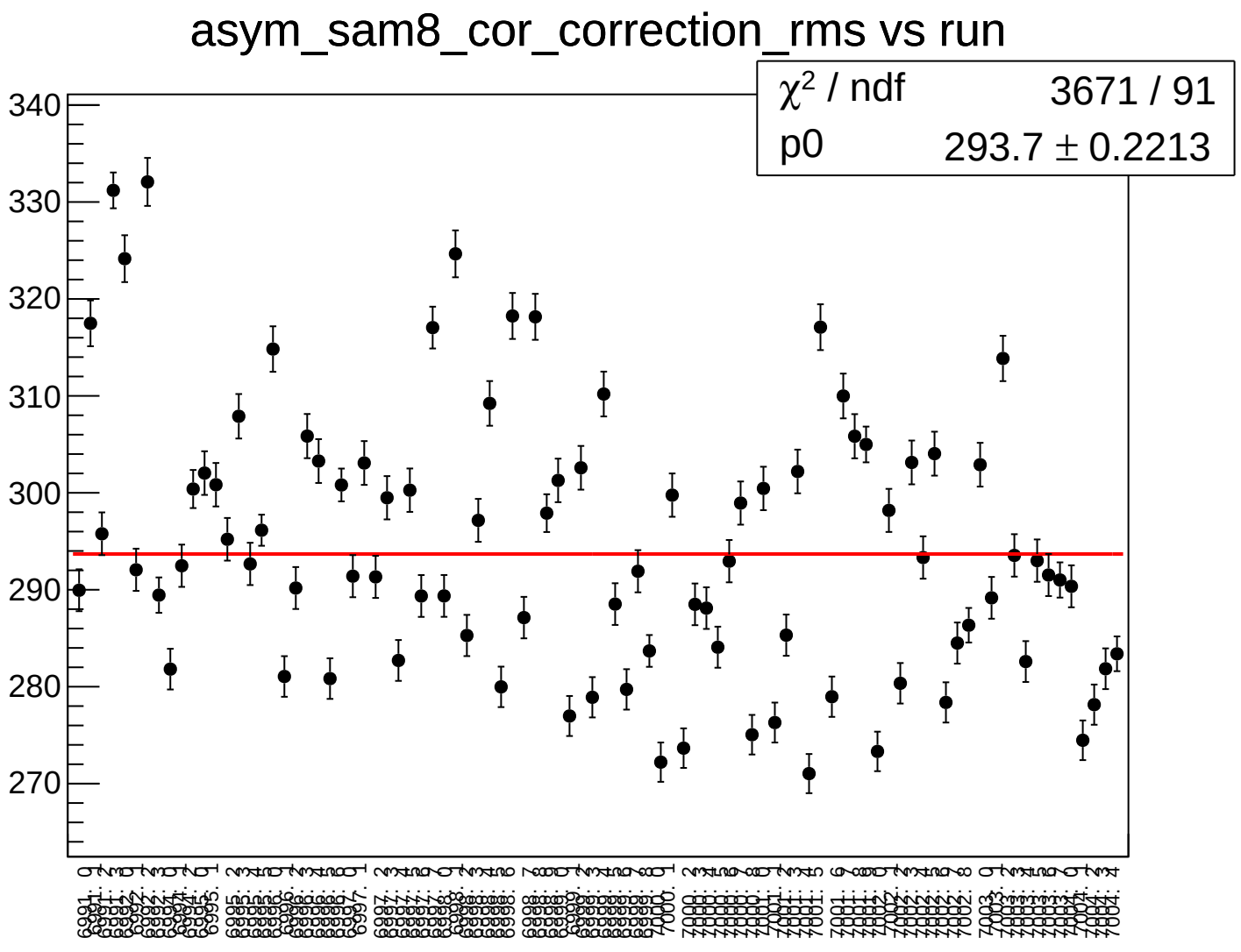

asym_sam8_reg_correction_rms vs run
χ² / ndf 3672 / 91
p0 293.7 ± 0.2213
340
330
320
310
300
290
280
270

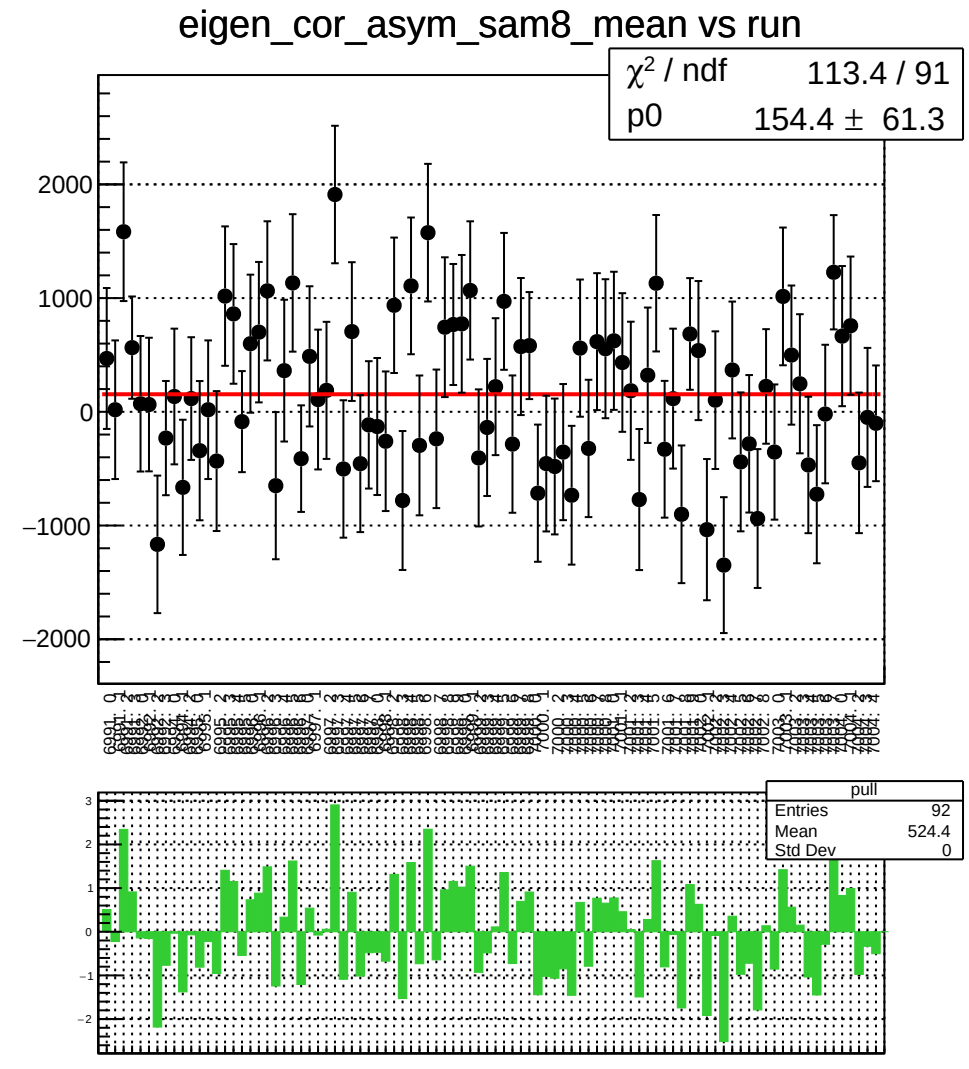

cor_asym_sam8_mean vs run
χ² / ndf 113.4 / 91
p0 154.4 ± 61.3
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 524.4
Std Dev 0
3
2
1
0
−1
−2

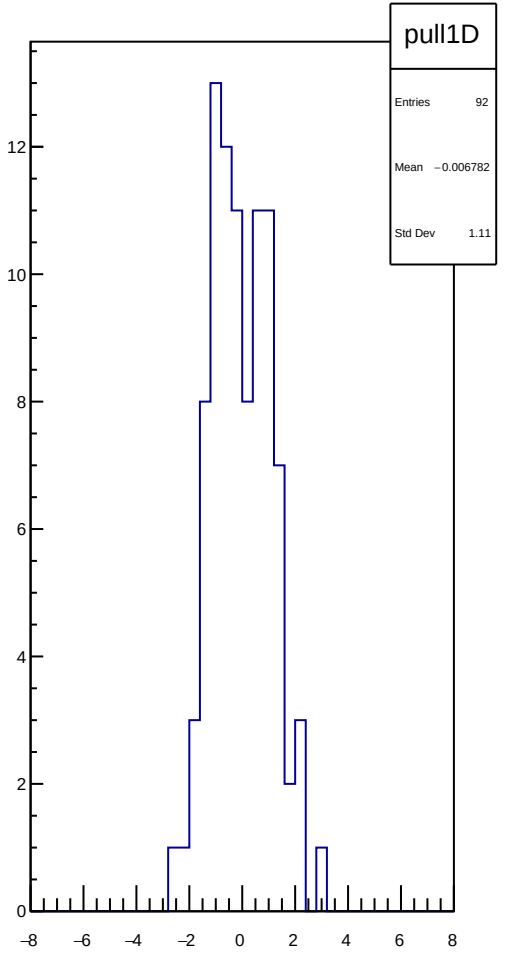

pull1D
Entries 92
Mean −0.006782
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

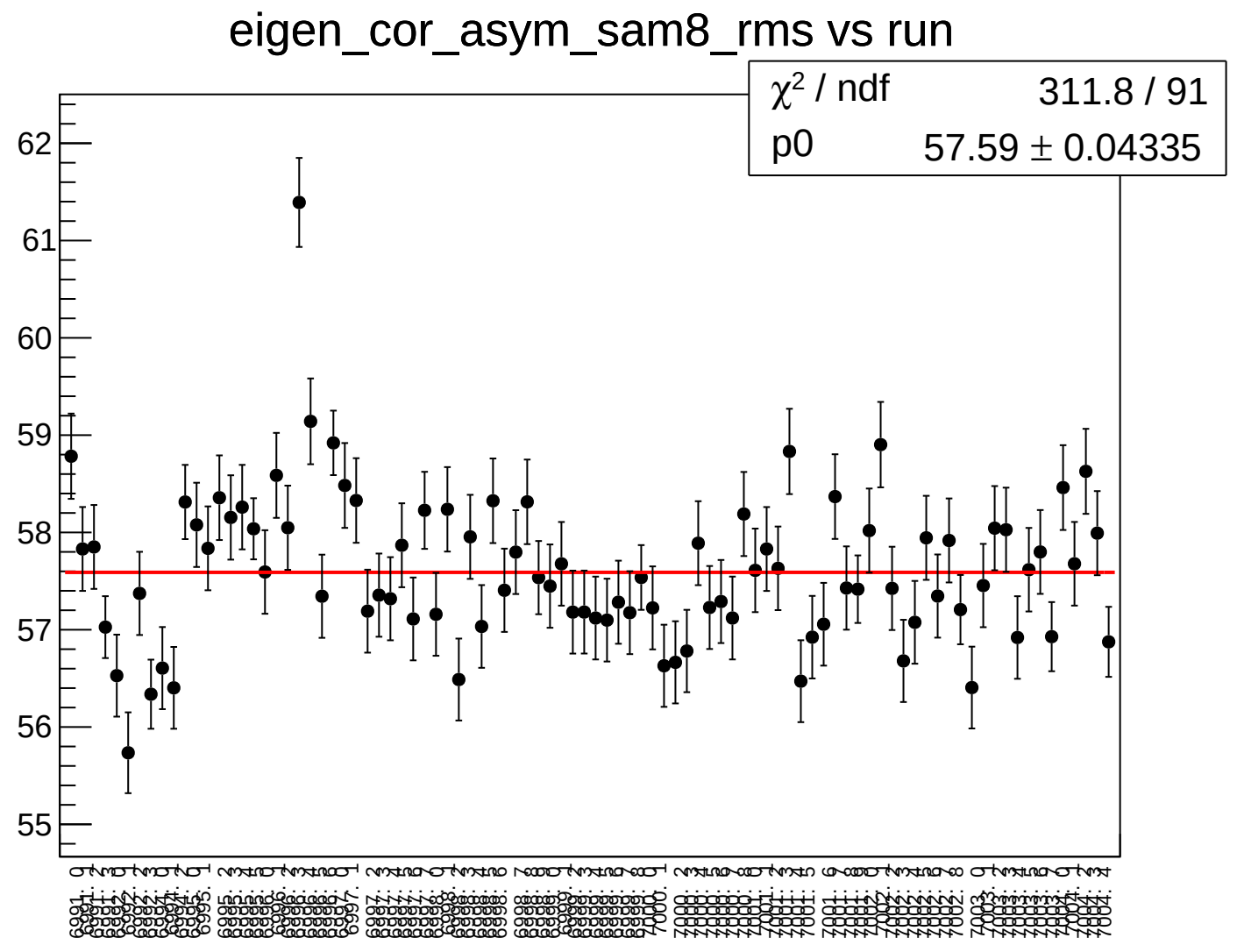

cor_asym_sam8_rms vs run
χ² / ndf 311.8 / 91
p0 57.59 ± 0.04335
62
61
60
59
58
57
56
55

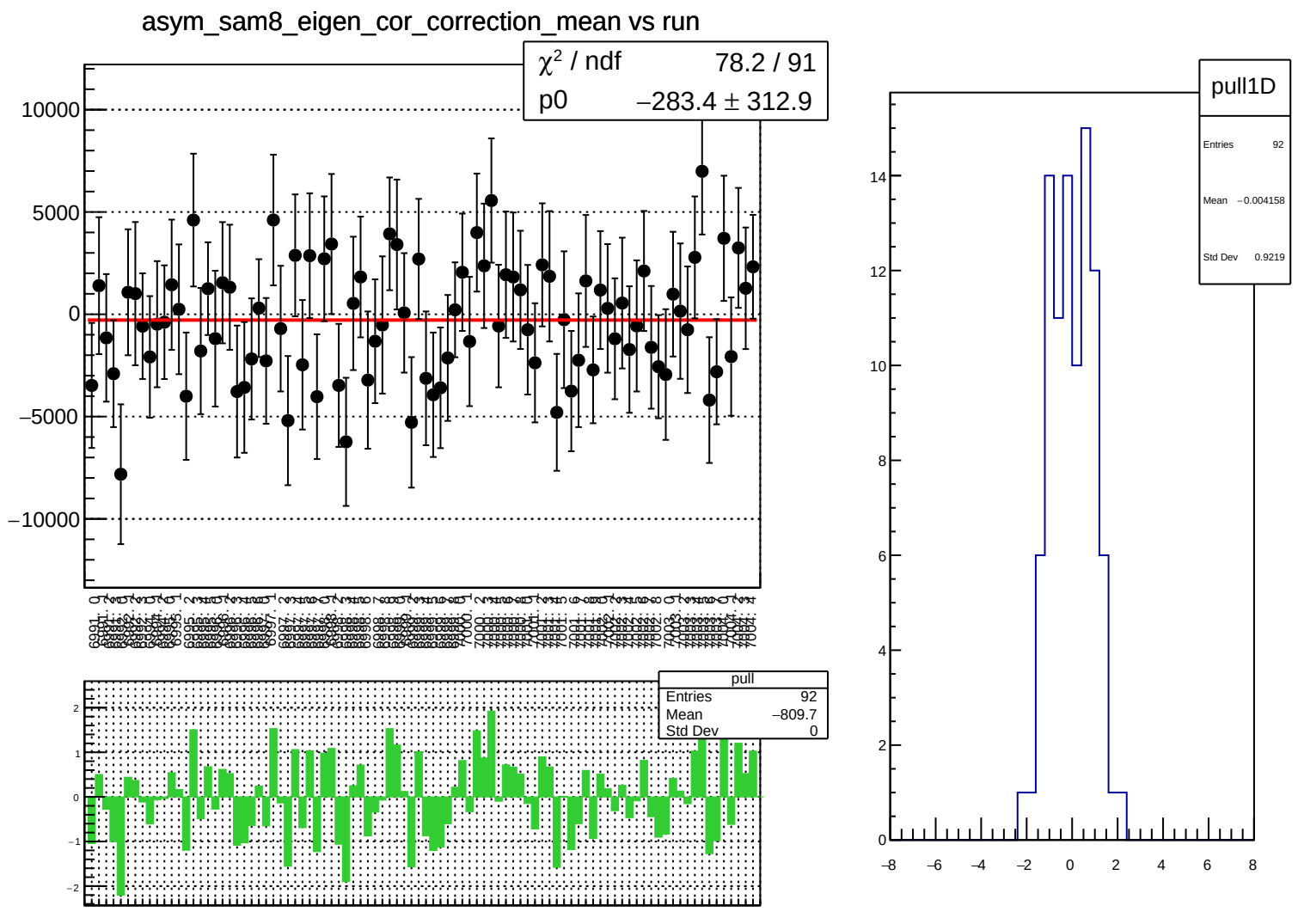

asym_sam8_cor_correction_mean vs run
χ² / ndf 78.2 / 91
p0 −283.4 ± 312.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −809.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004158
Std Dev 0.9219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

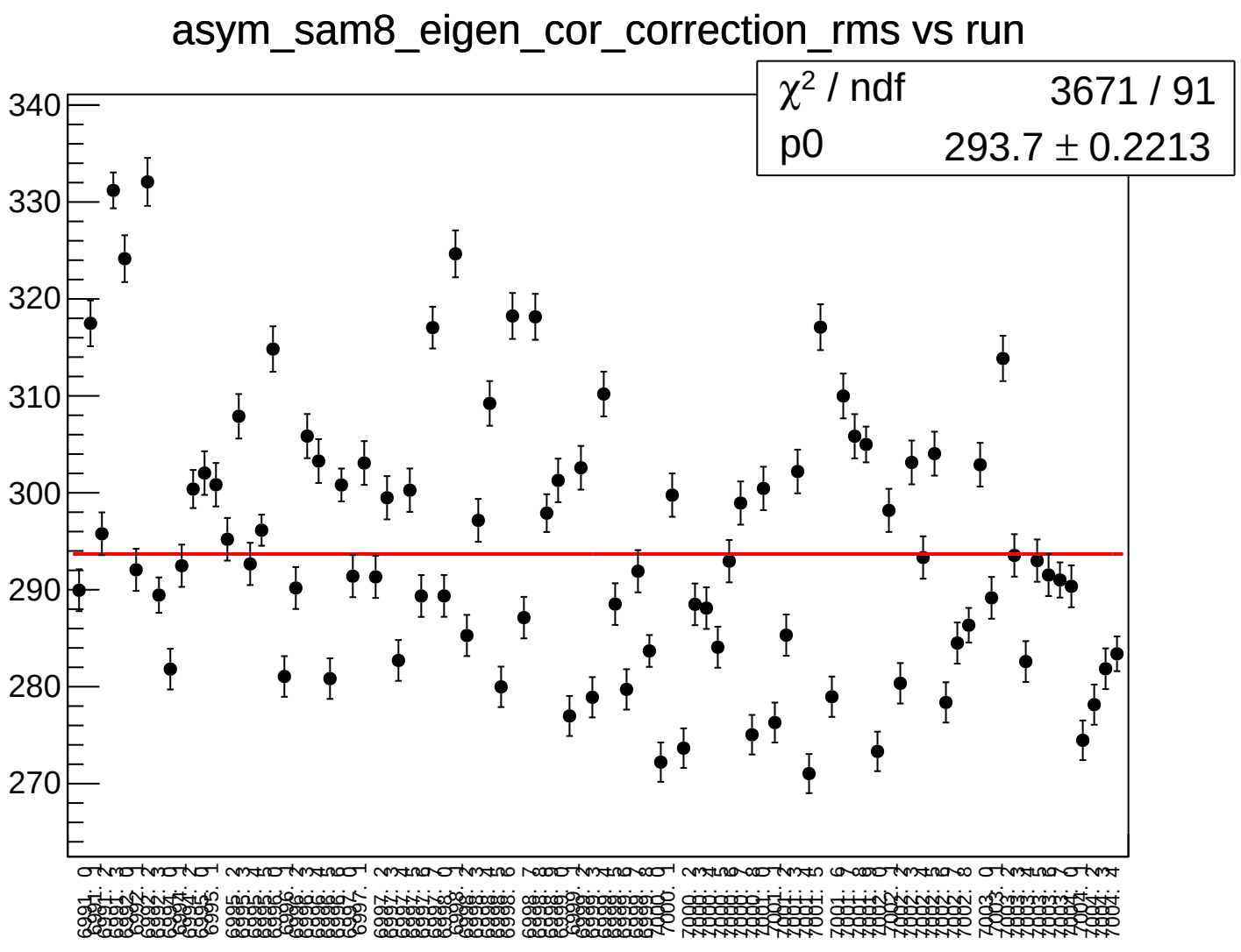

asym_sam8_cor_correction_rms vs run
χ² / ndf 3671 / 91
p0 293.7 ± 0.2213
340
330
320
310
300
290
280
270

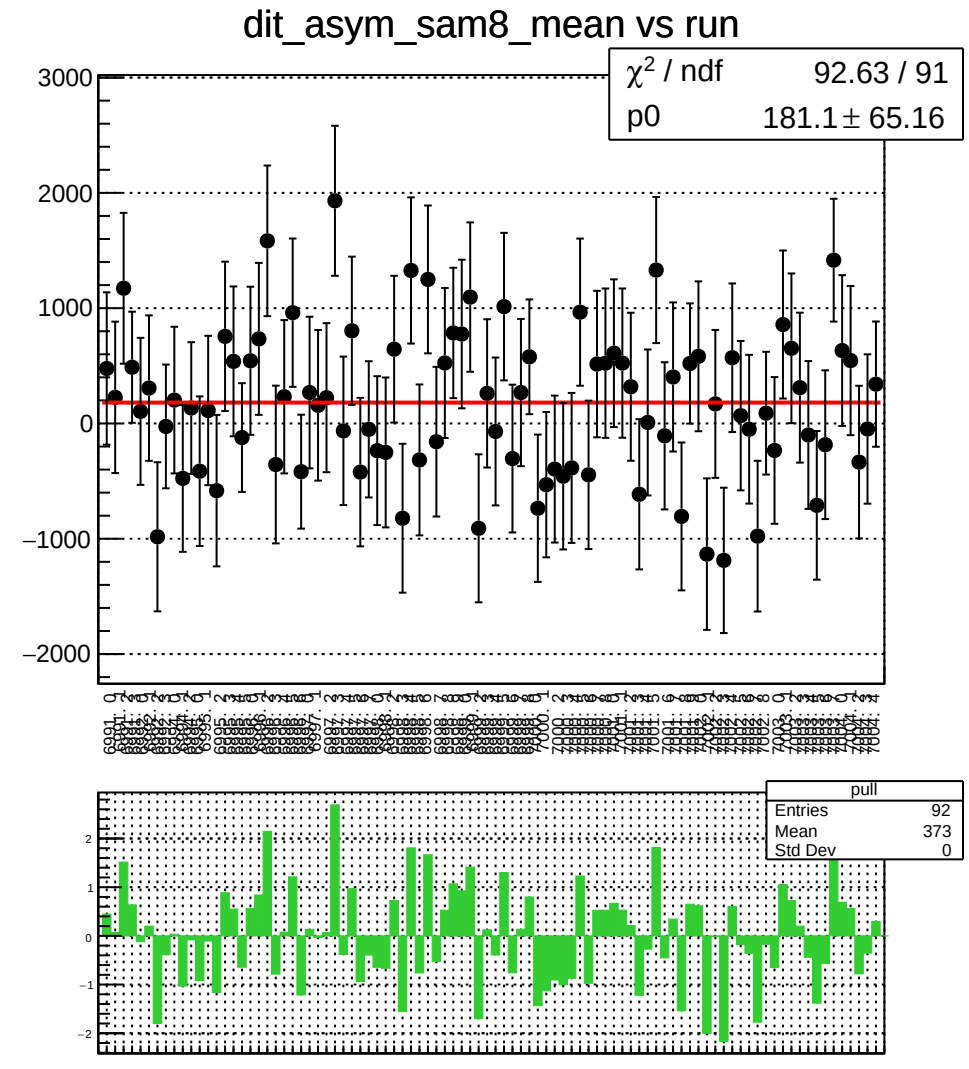

eigen_cor_asym_sam8_mean vs run
χ² / ndf 113.4 / 91
p0 154.4 ± 61.3
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 524.4
Std Dev 0
3
2
1
0
−1
−2

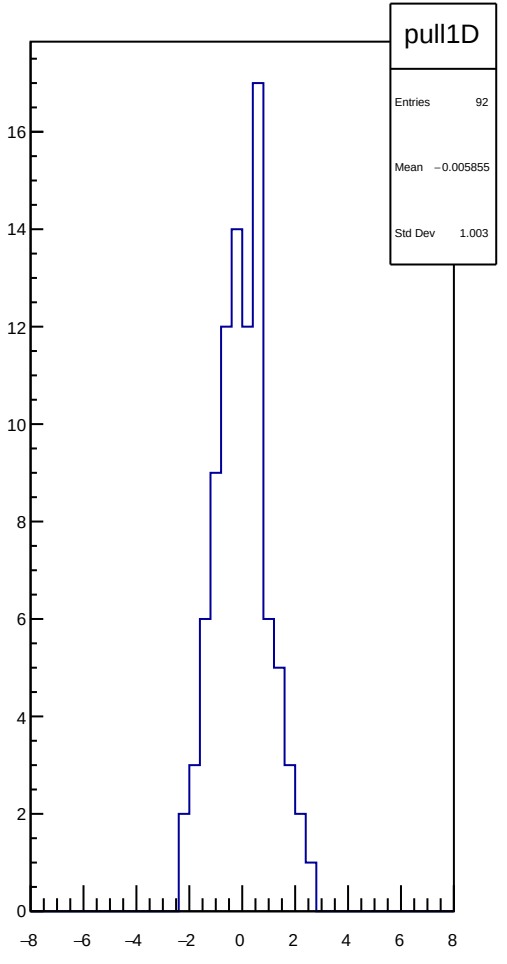

pull1D
Entries 92
Mean −0.006782
Std Dev 1.11
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

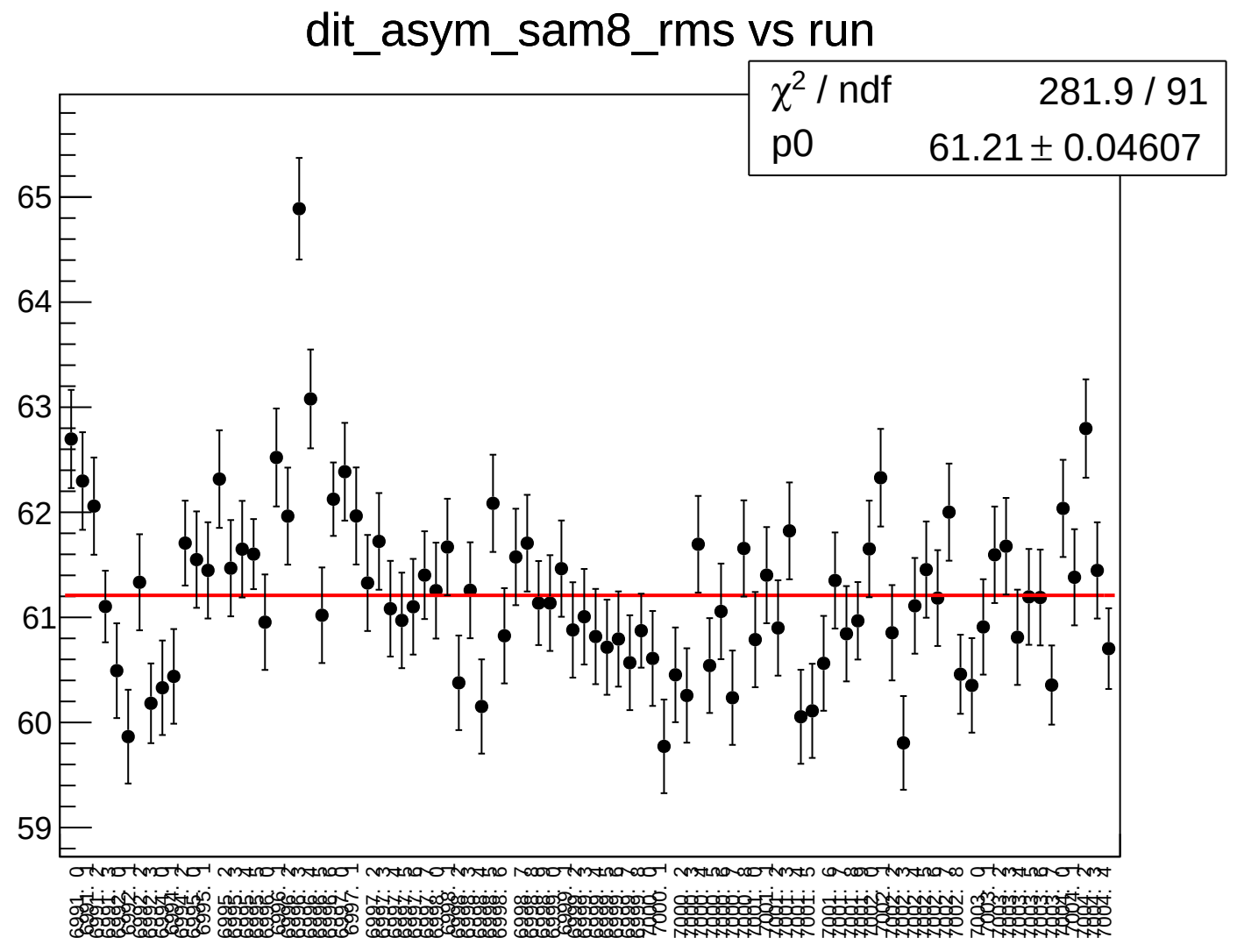

eigen_cor_asym_sam8_rms vs run
χ² / ndf 311.8 / 91
p0 57.59 ± 0.04335
62
61
60
59
58
57
56
55

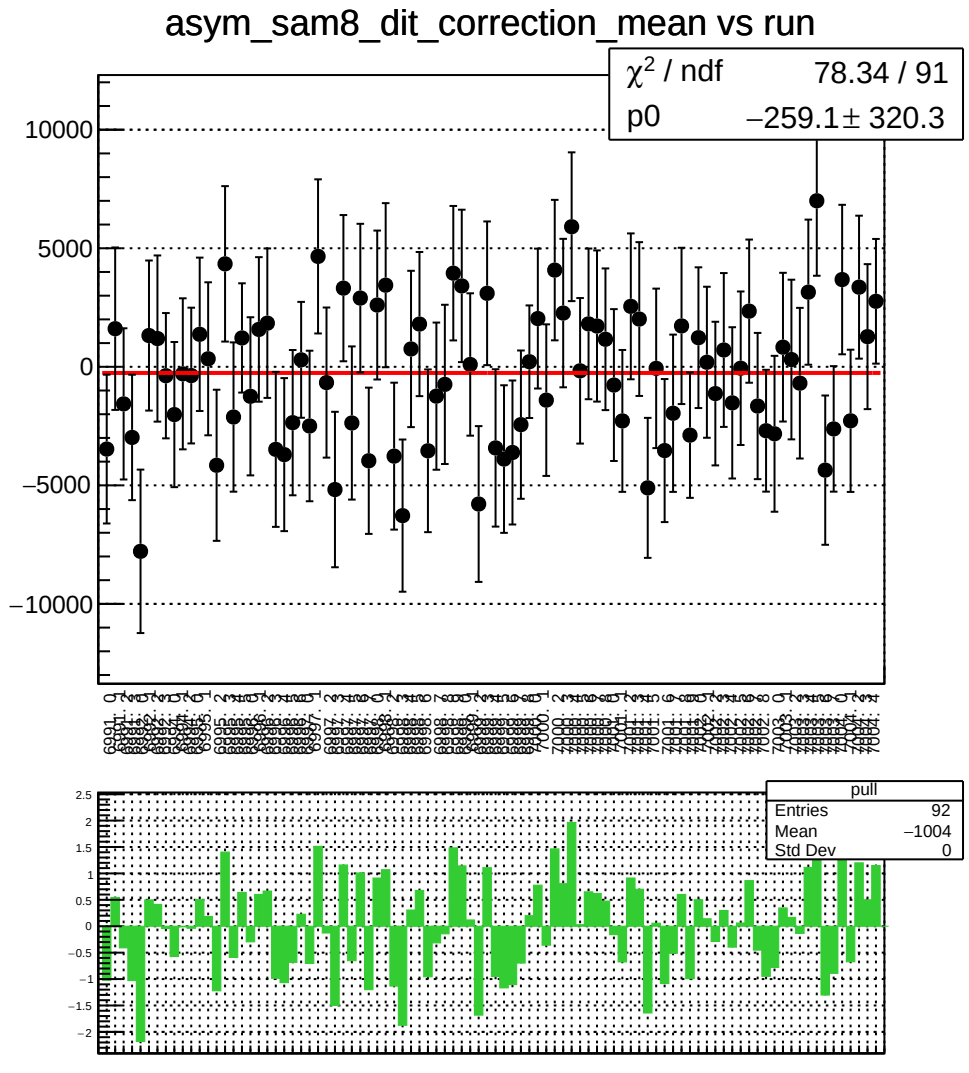

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 78.2 / 91
p0 −283.4 ± 312.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −809.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004158
Std Dev 0.9219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

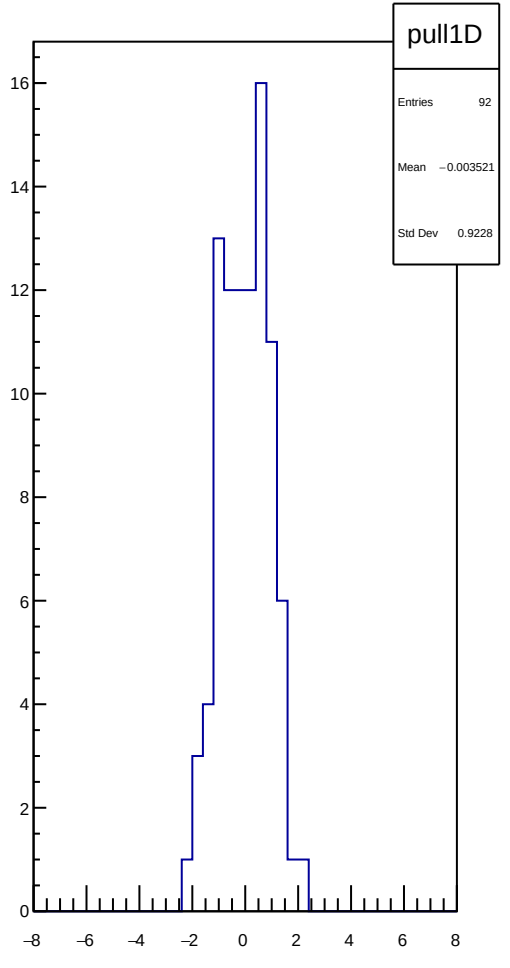

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 3671 / 91
p0 293.7 ± 0.2213
340
330
320
310
300
290
280
270

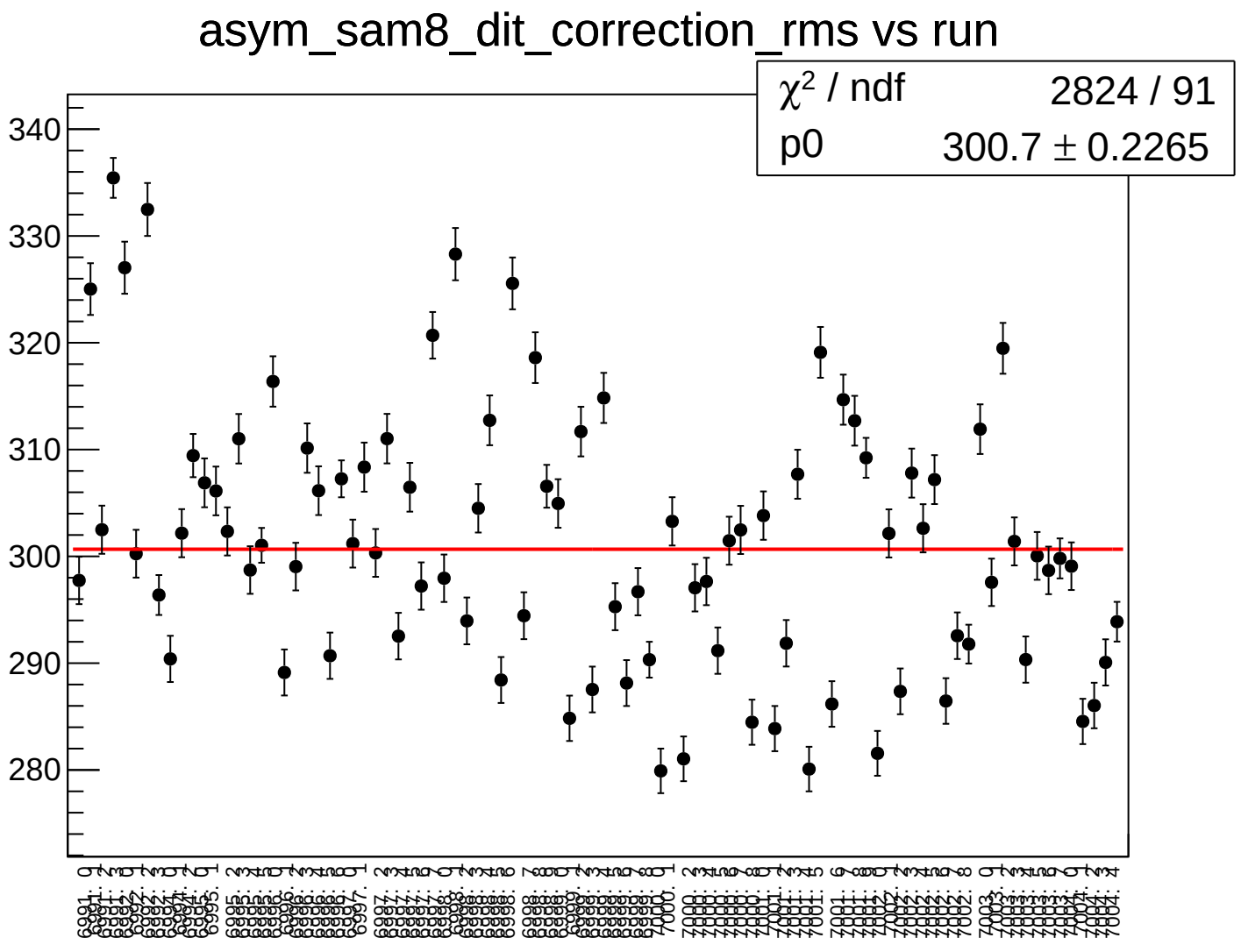

dit_asym_sam8_mean vs run
χ² / ndf 92.63 / 91
p0 181.1 ± 65.16
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 373
Std Dev 0
2
1
0
−1
−2

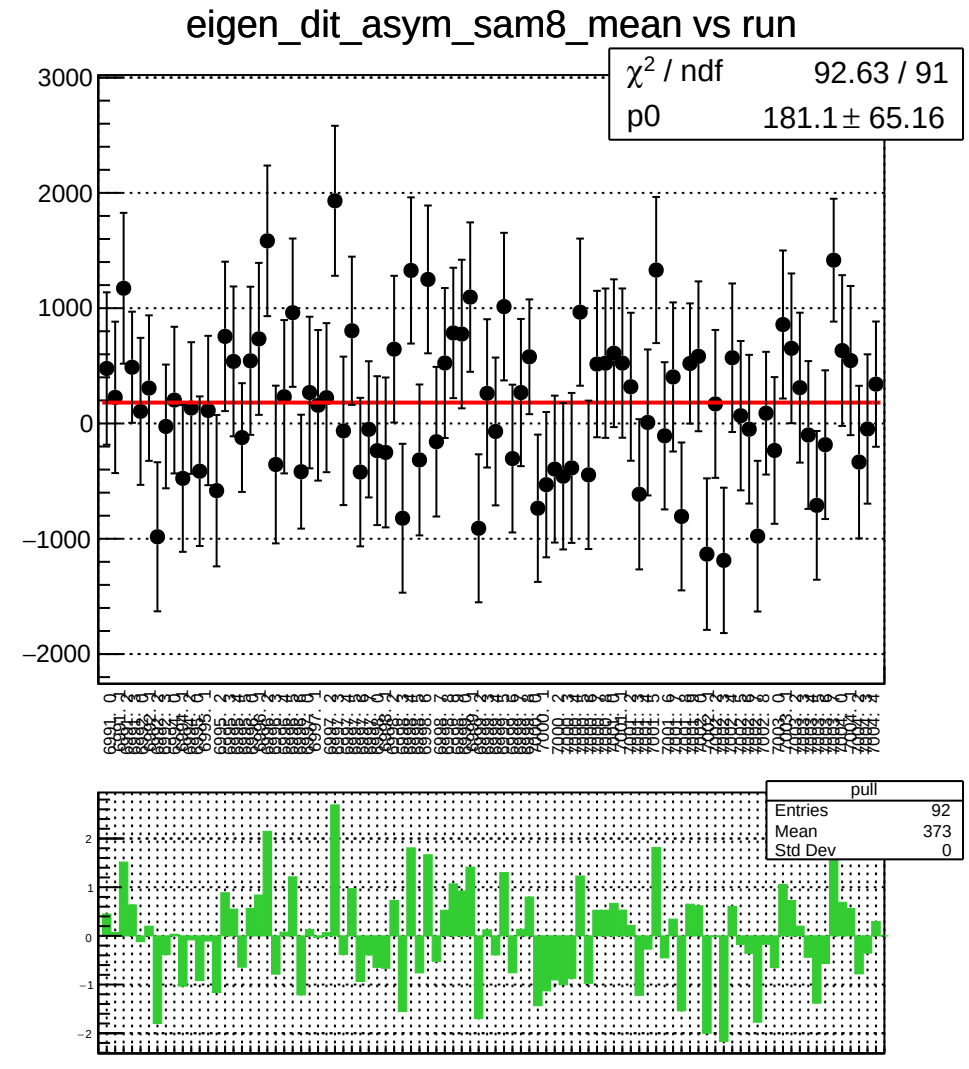

pull1D
Entries 92
Mean −0.005855
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

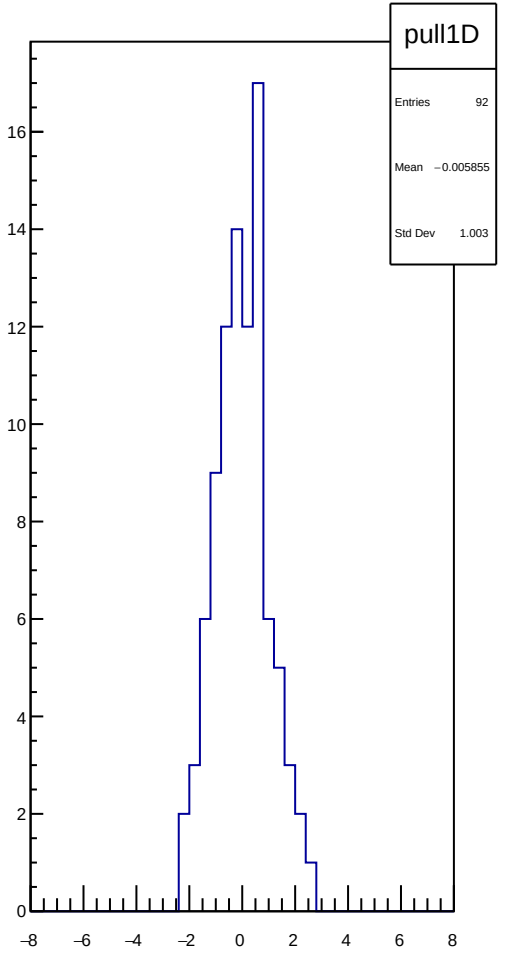

dit_asym_sam8_rms vs run
χ² / ndf 281.9 / 91
p0 61.21 ± 0.04607
65
64
63
62
61
60
59

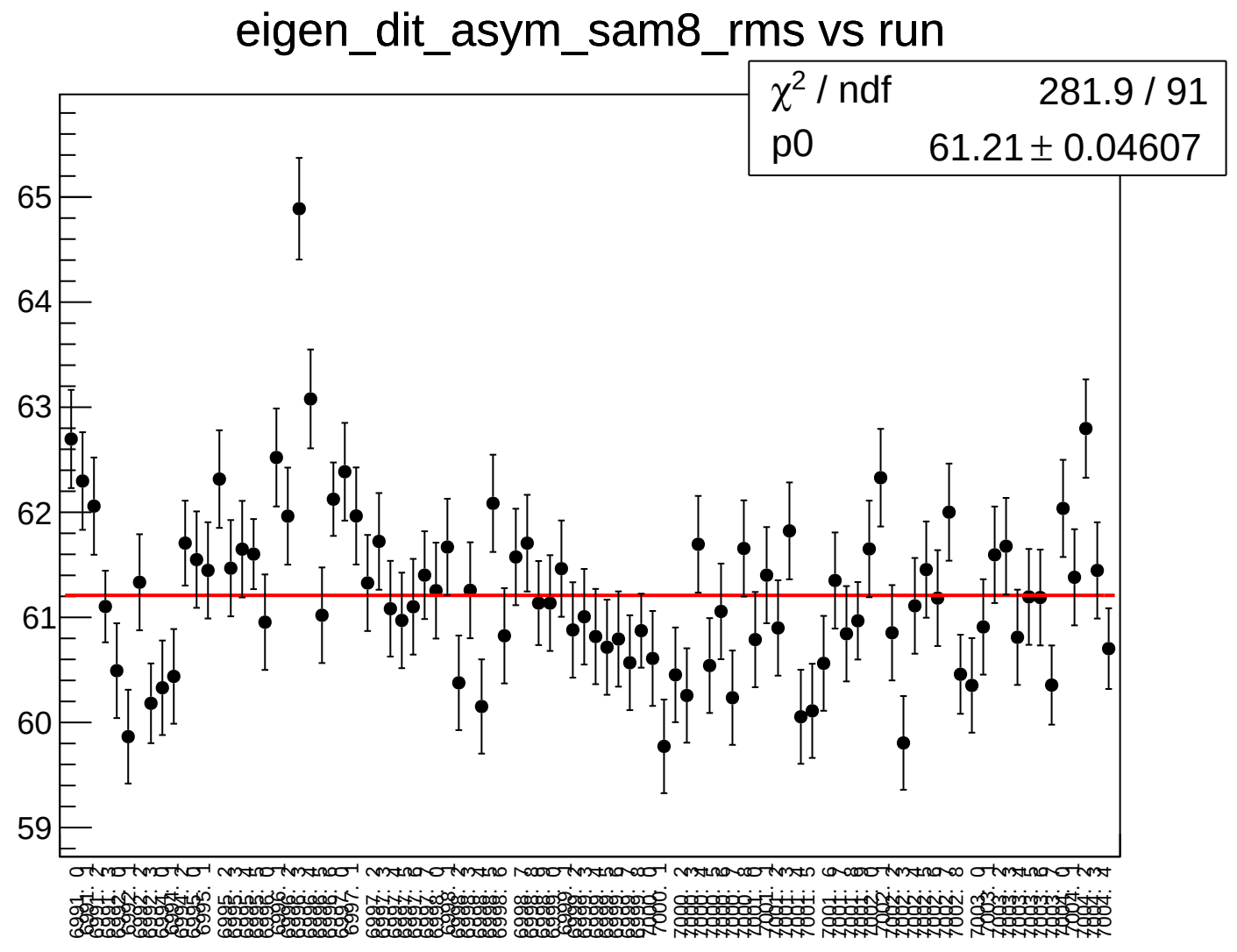

asym_sam8_dit_correction_mean vs run
χ² / ndf 78.34 / 91
p0 −259.1± 320.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1004
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

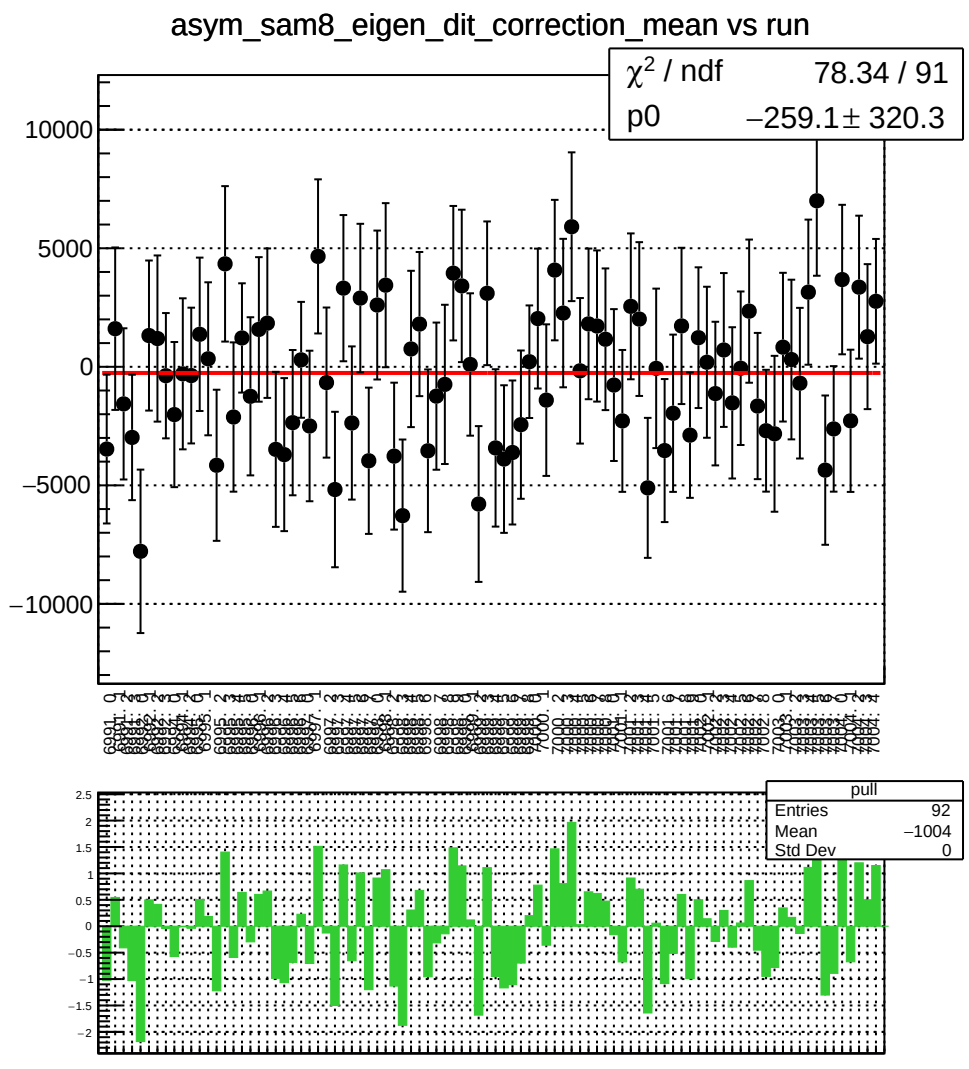

pull1D
Entries 92
Mean −0.003521
Std Dev 0.9228
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

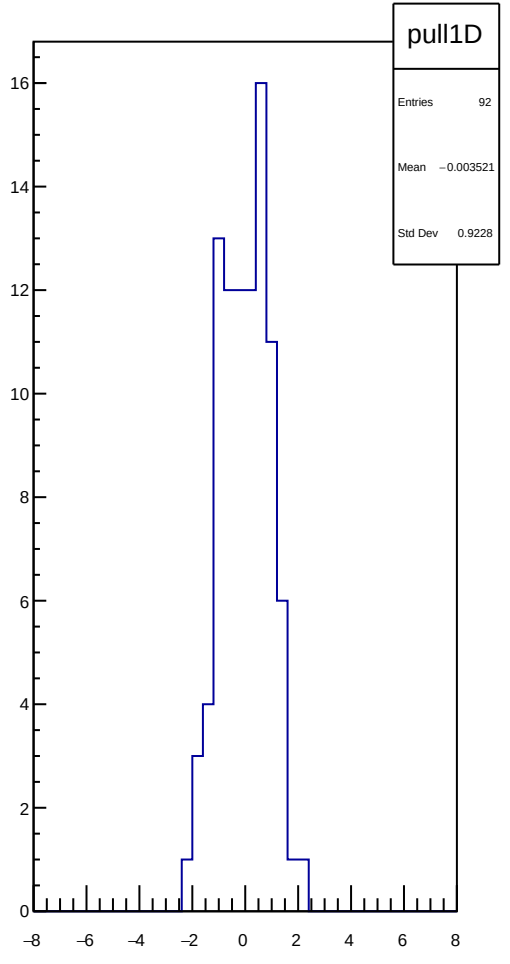

asym_sam8_dit_correction_rms vs run
χ² / ndf 2824 / 91
p0 300.7 ± 0.2265
340
330
320
310
300
290
280

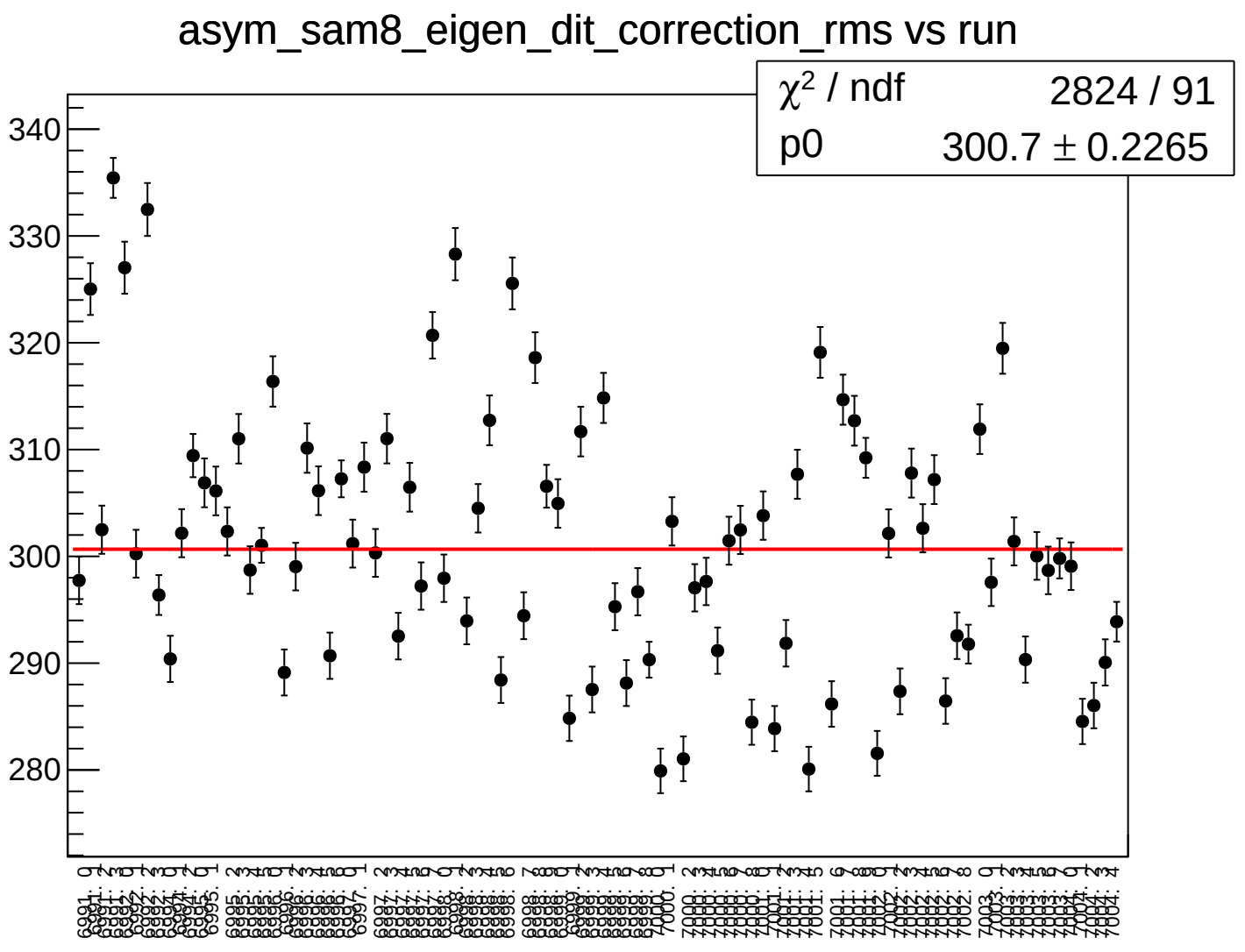

eigen_dit_asym_sam8_mean vs run
χ² / ndf 92.63 / 91
p0 181.1 ± 65.16
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 373
Std Dev 0
2
1
0
−1
−2

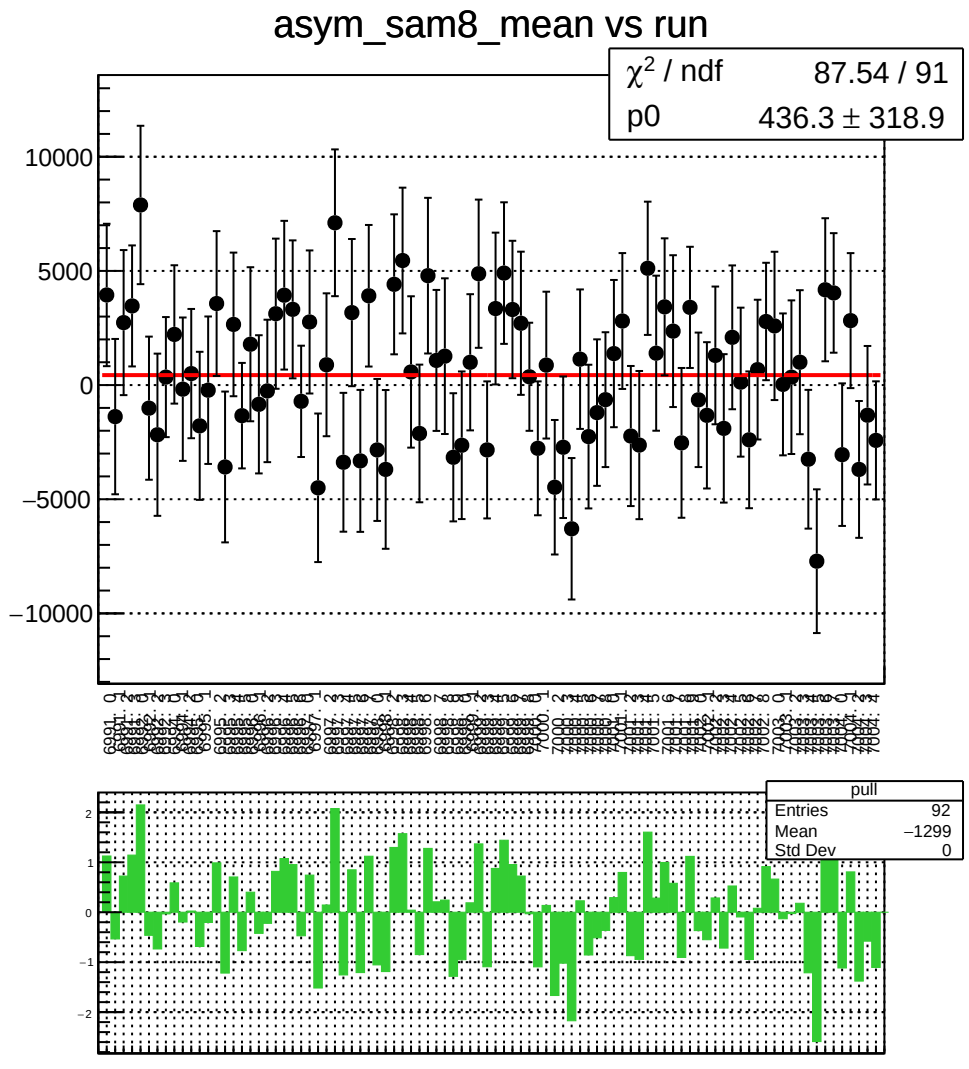

pull1D
Entries 92
Mean −0.005855
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

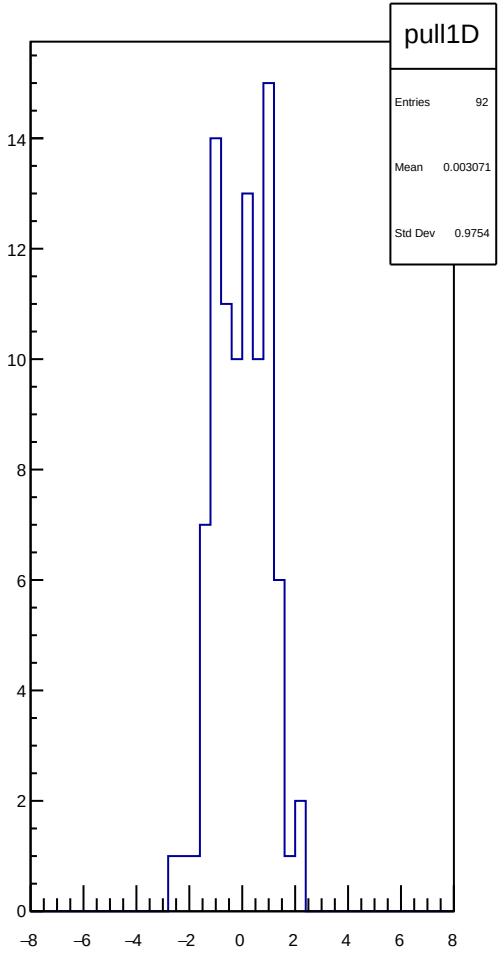

eigen_dit_asym_sam8_rms vs run
χ² / ndf 281.9 / 91
p0 61.21 ± 0.04607
65
64
63
62
61
60
59

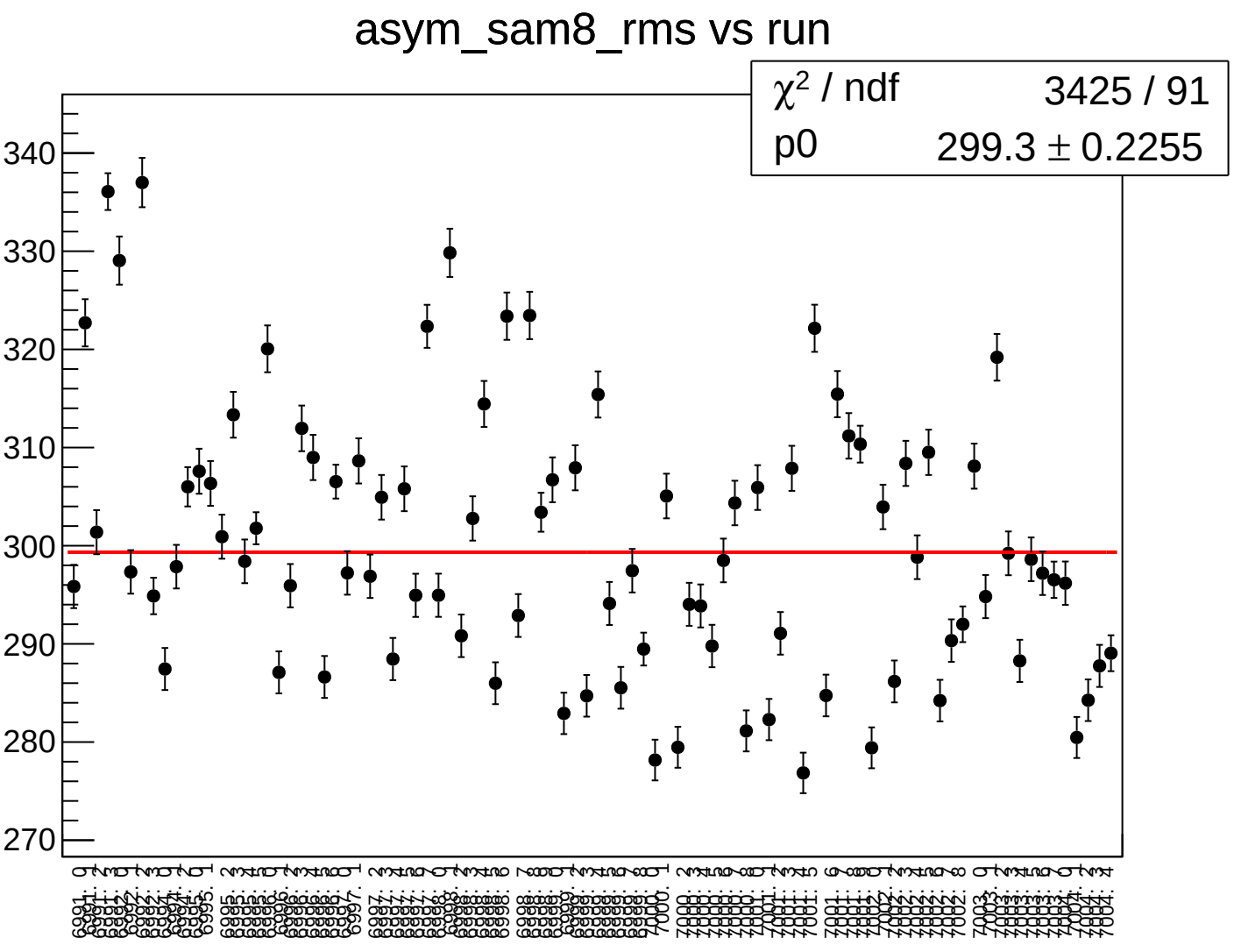

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 78.34 / 91
p0 −259.1± 320.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1004
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

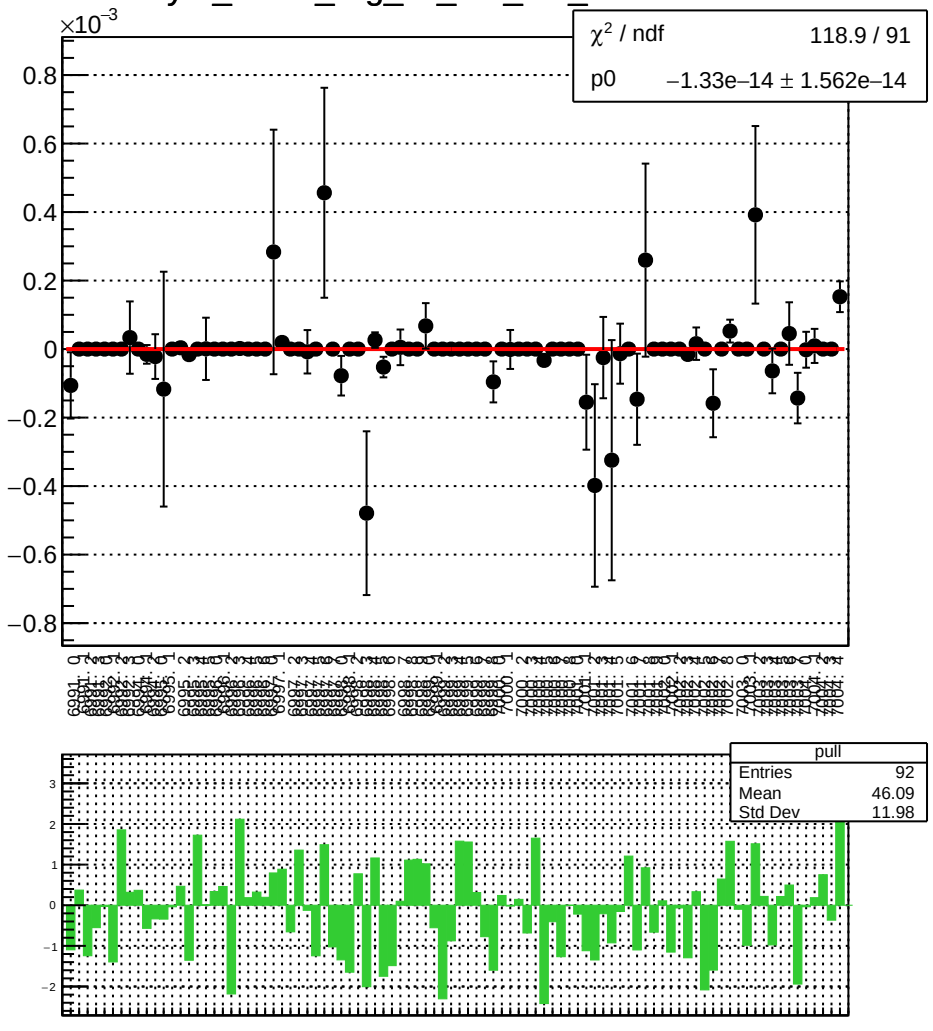

pull1D
Entries 92
Mean −0.003521
Std Dev 0.9228
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

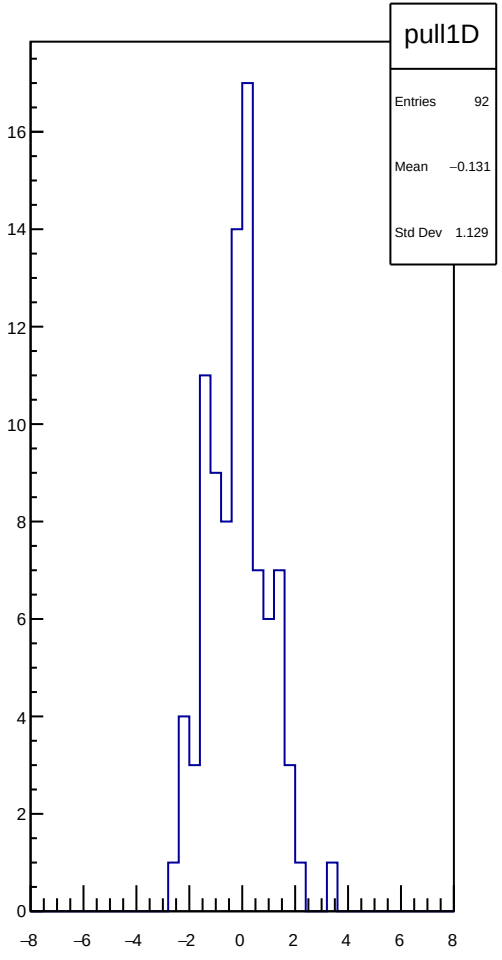

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 2824 / 91
p0 300.7 ± 0.2265
340
330
320
310
300
290
280

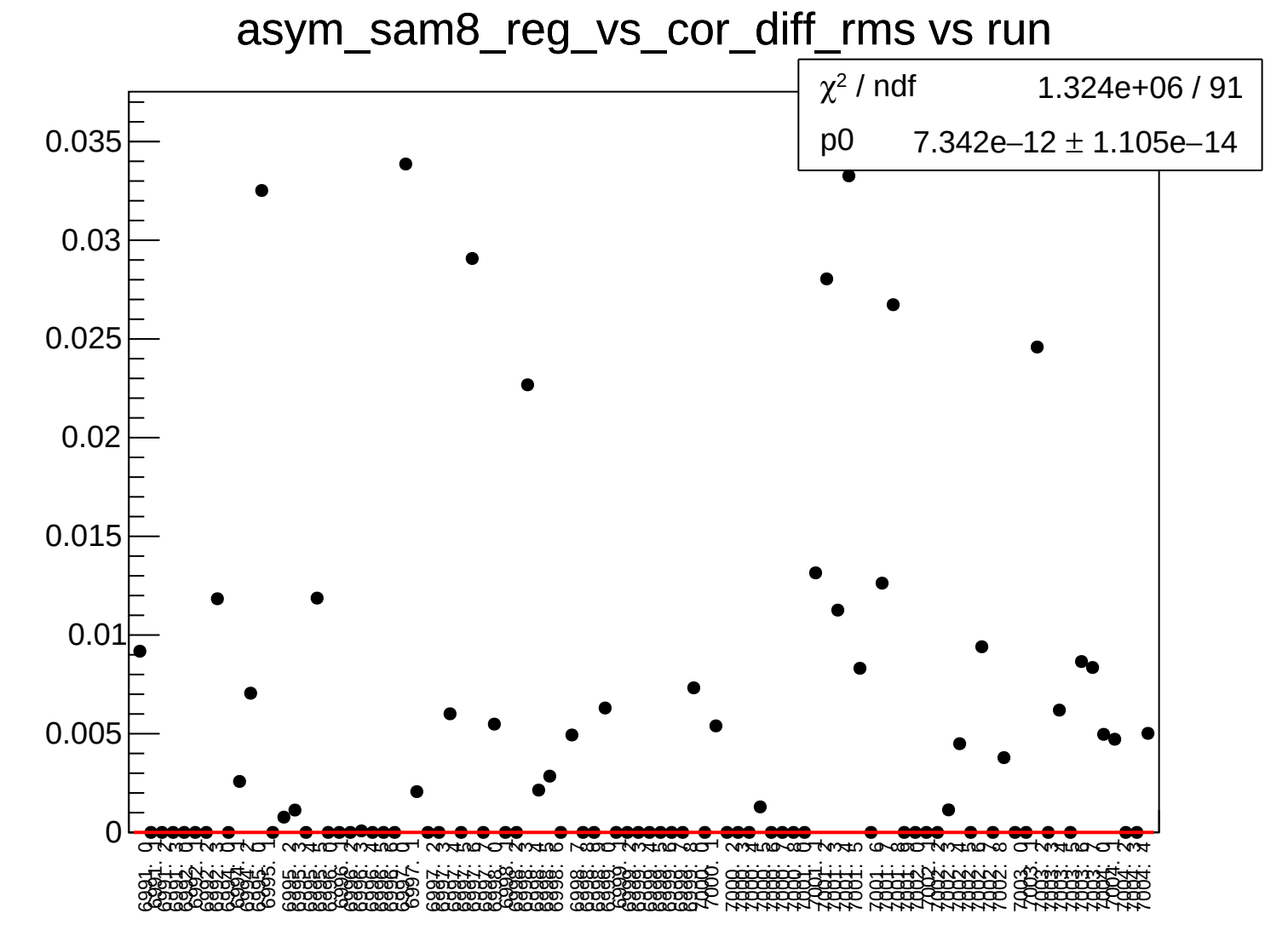

asym_sam8_mean vs run
χ² / ndf 87.54 / 91
p0 436.3 ± 318.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1299
Std Dev 0
2
1
0
−1
−2

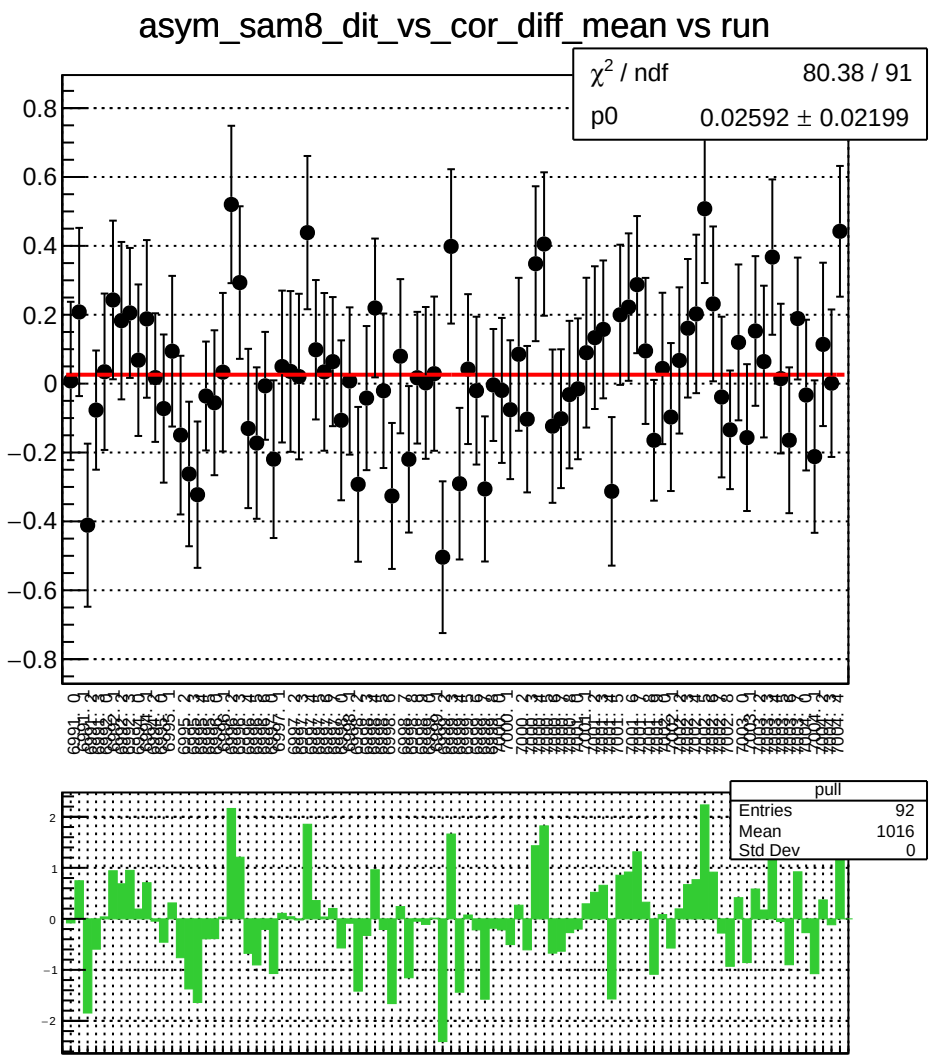

pull1D
Entries 92
Mean 0.003071
Std Dev 0.9754
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

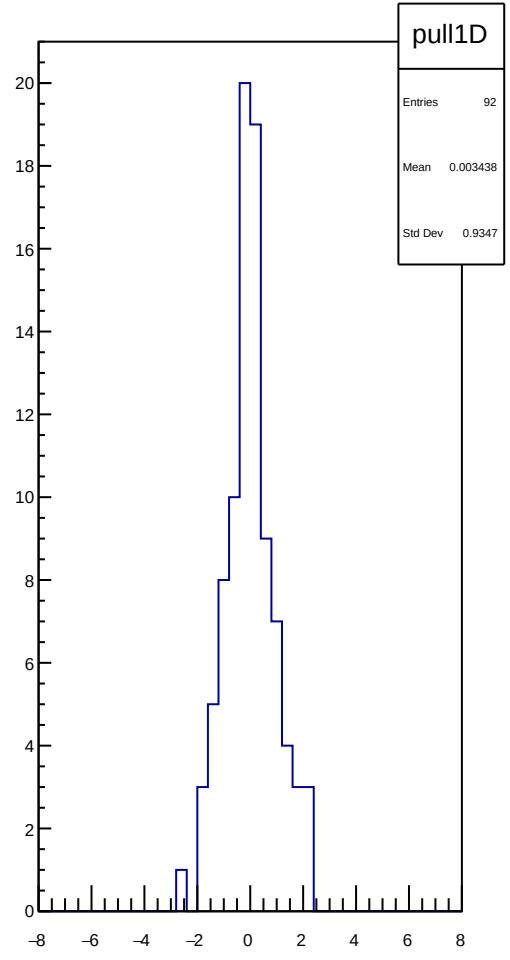

asym_sam8_rms vs run
χ² / ndf 3425 / 91
p0 299.3 ± 0.2255
340
330
320
310
300
290
280
270

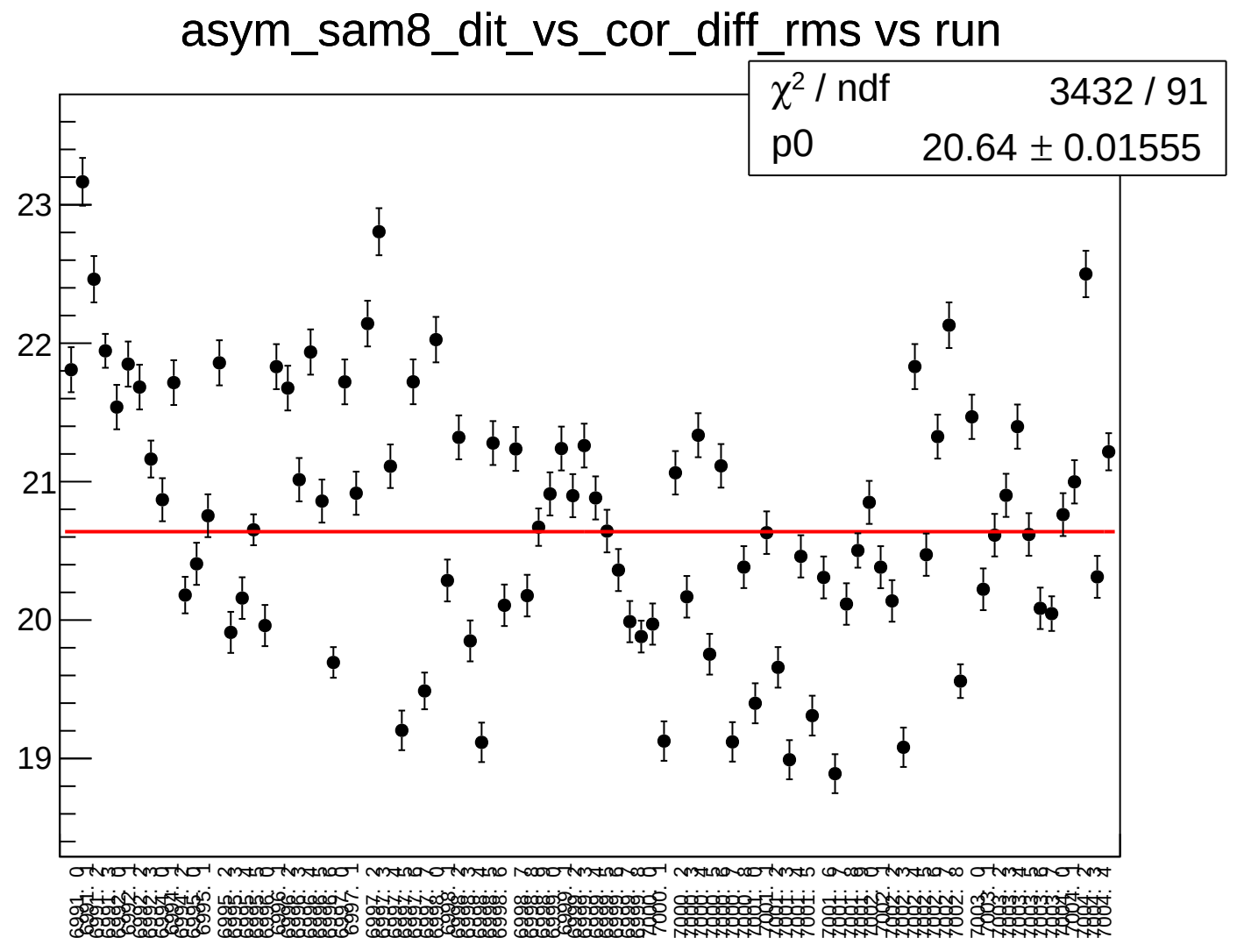

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 118.9 / 91
p0 −1.33e−14 ± 1.562e−14
pull
Entries 92
Mean 46.09
Std Dev 11.98

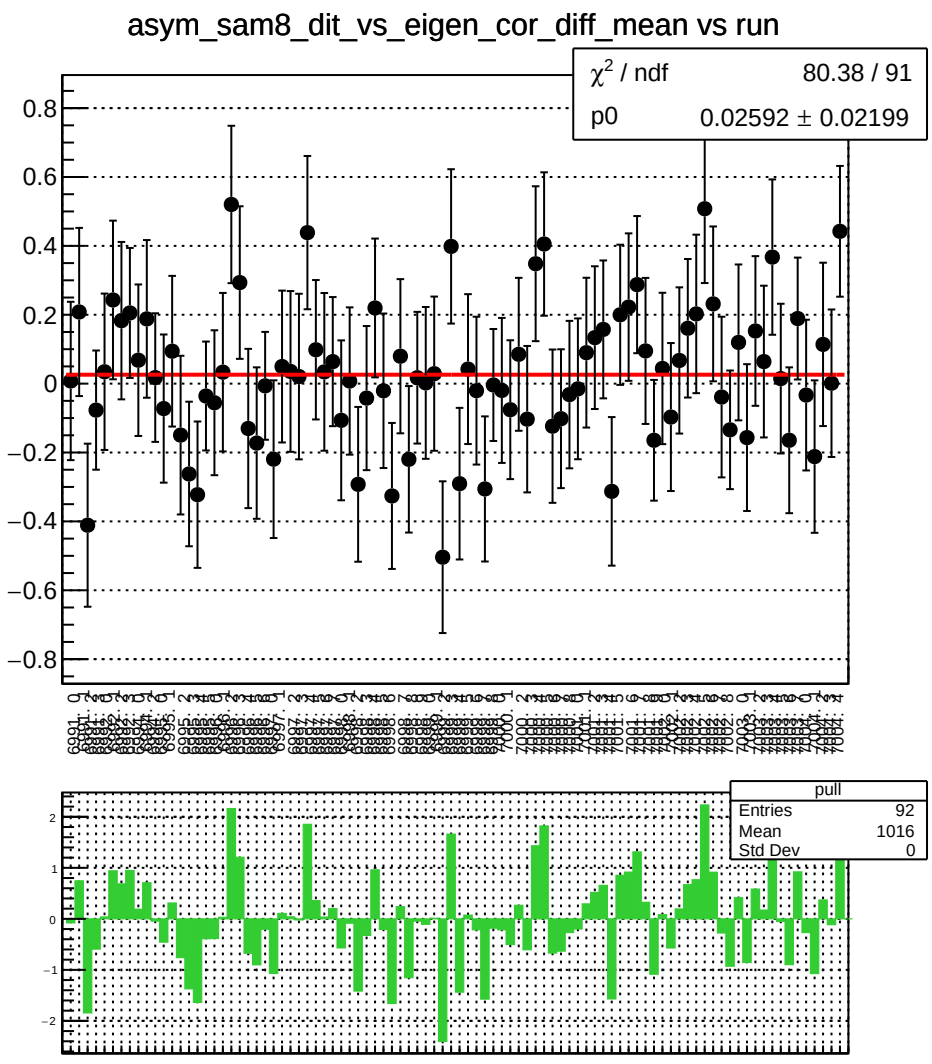

pull1D
Entries 92
Mean −0.131
Std Dev 1.129

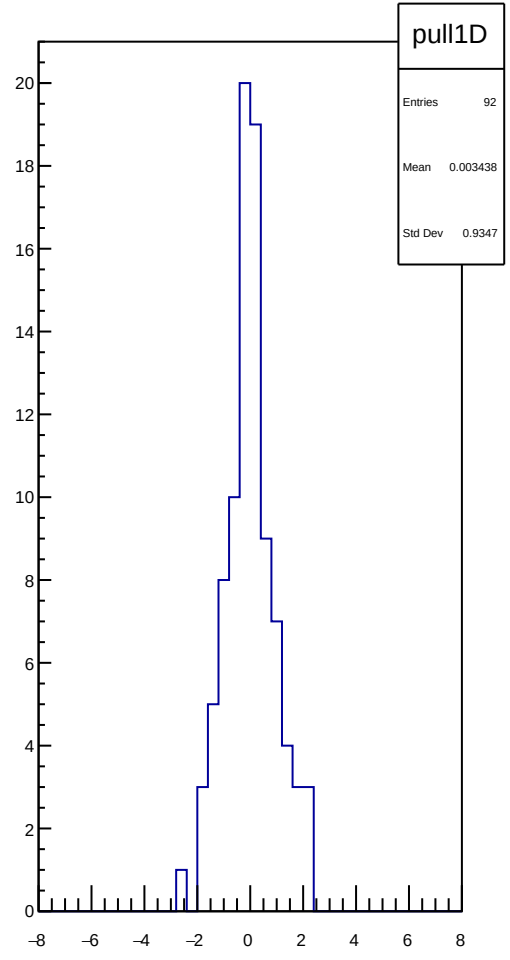

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.324e+06 / 91
p0 7.342e−12 ± 1.105e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

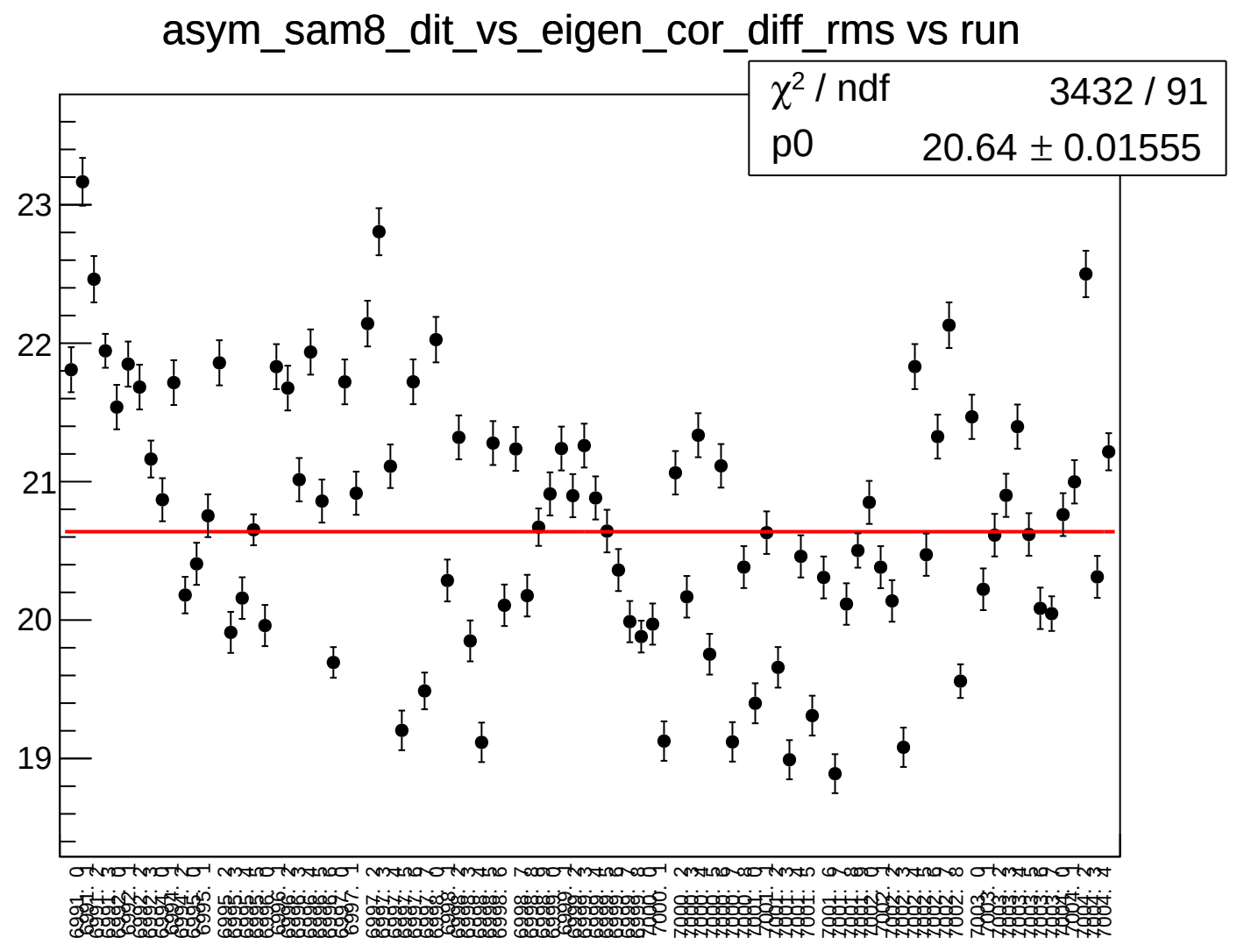

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 80.38 / 91
p0 0.02592 ± 0.02199
pull
Entries 92
Mean 1016
Std Dev 0

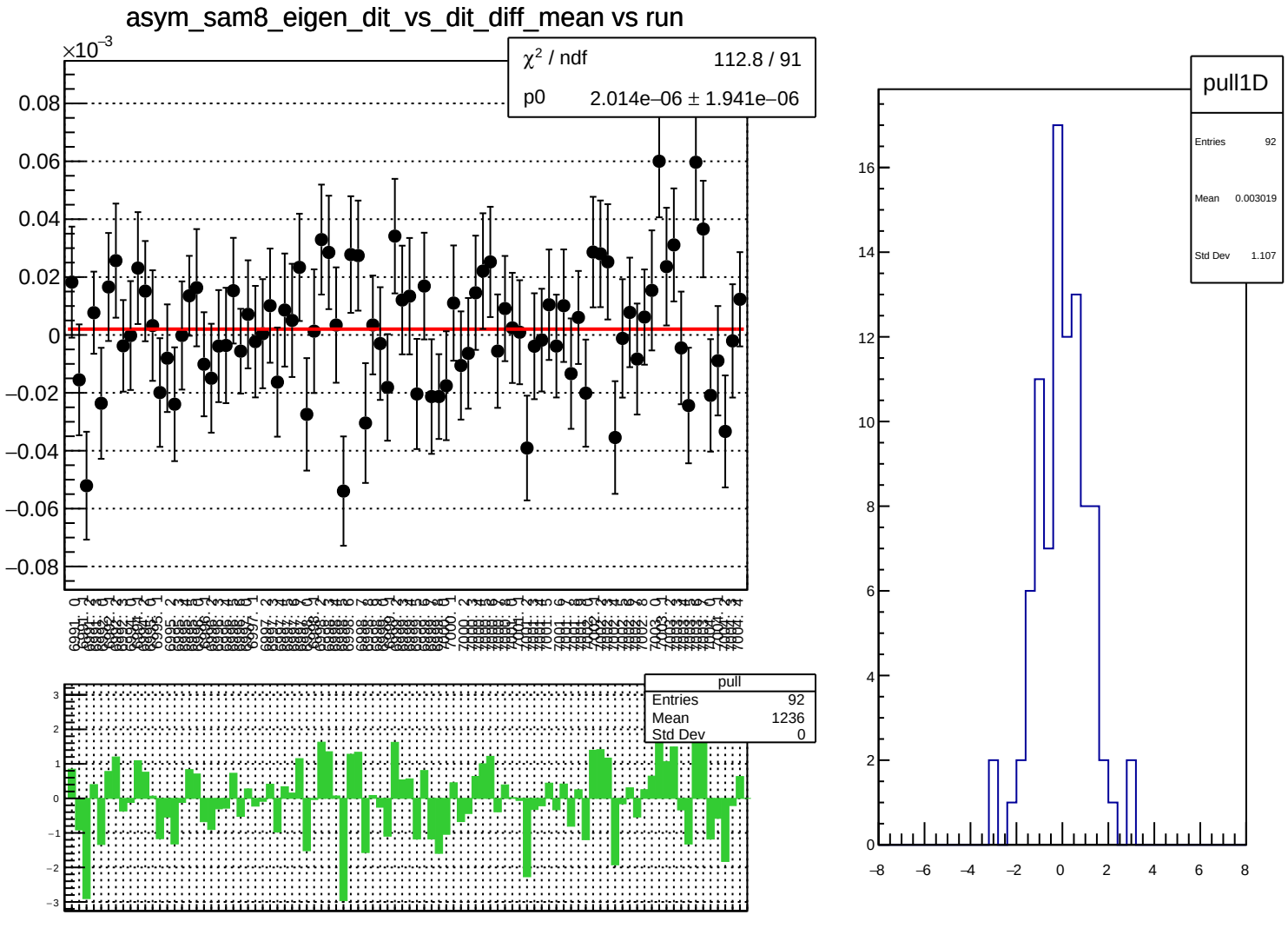

pull1D
Entries 92
Mean 0.003438
Std Dev 0.9347

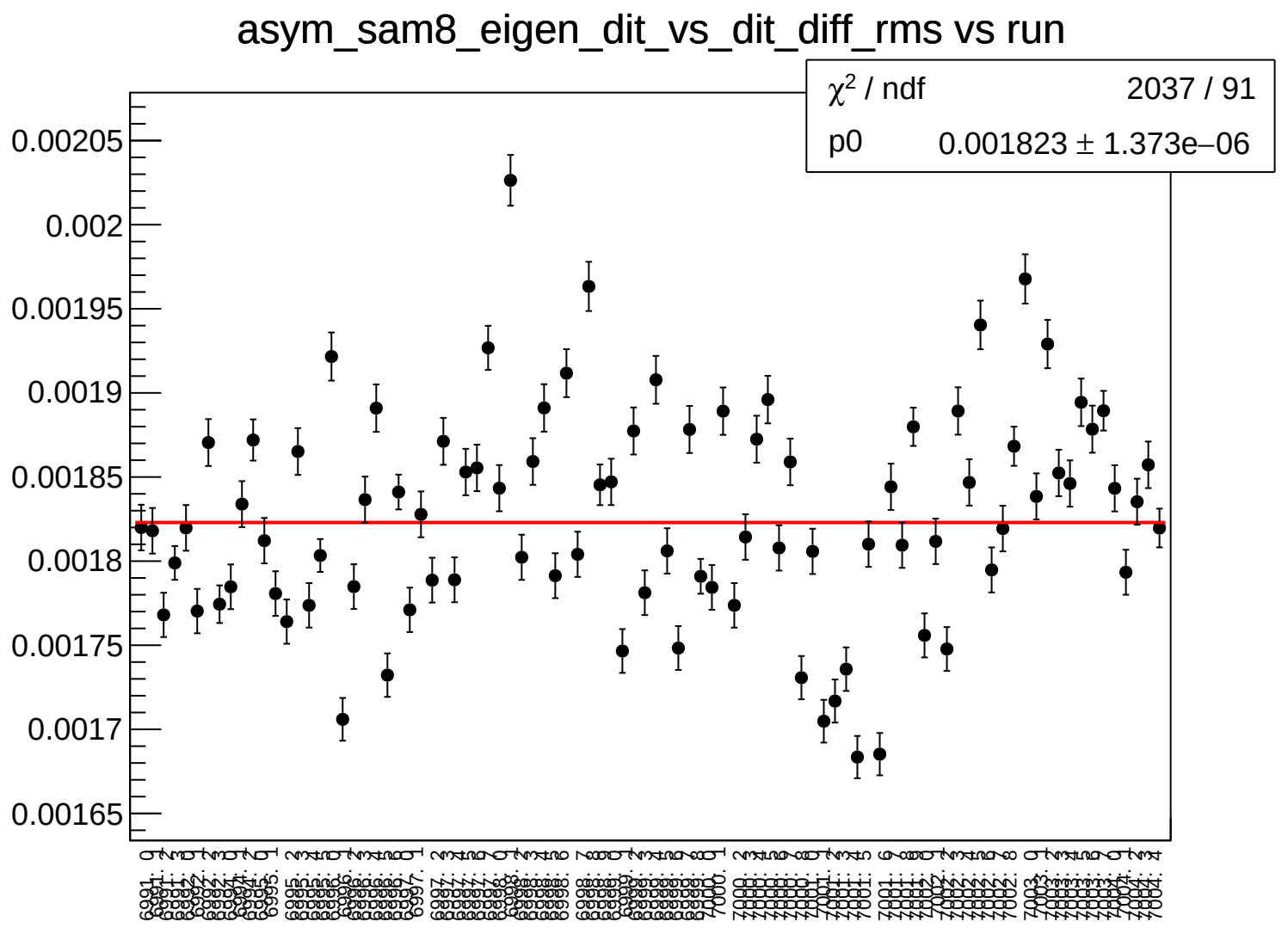

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 3432 / 91
p0 20.64 ± 0.01555
23
22
21
20
19

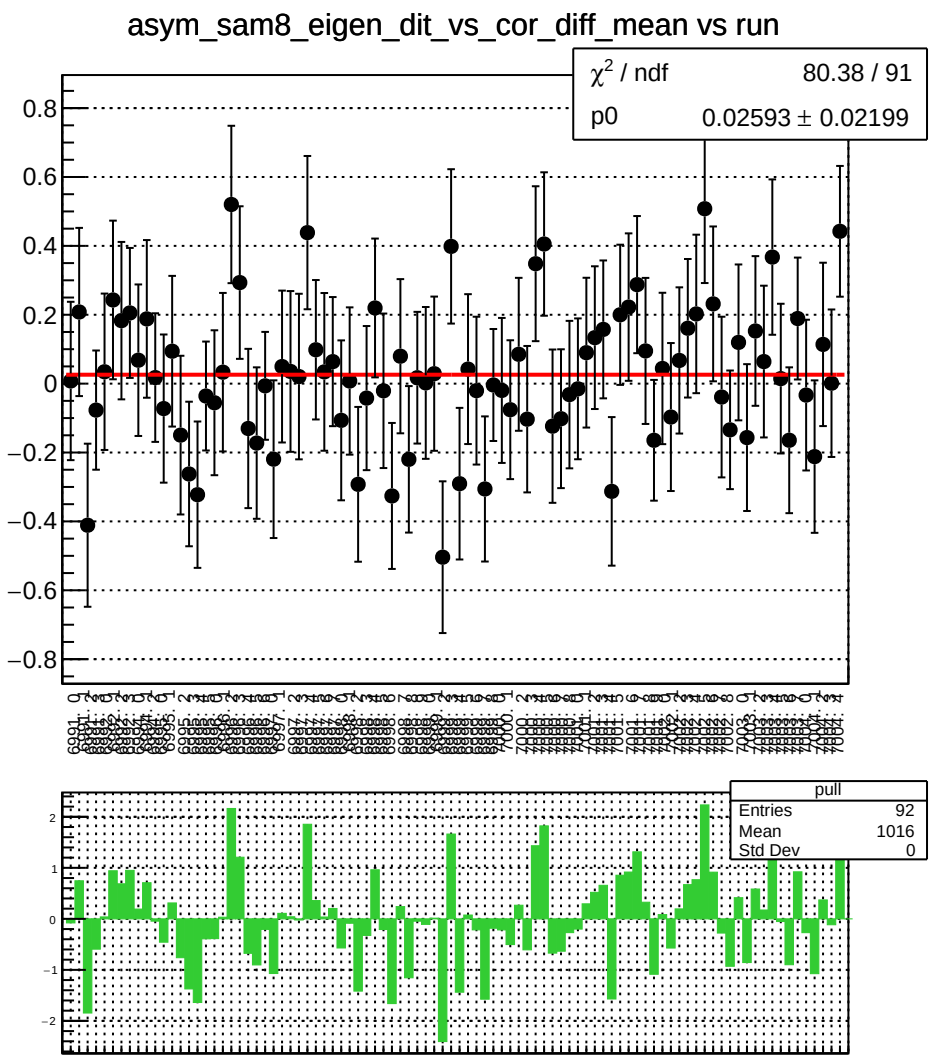

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.38 / 91
p0 0.02592 ± 0.02199
pull
Entries 92
Mean 1016
Std Dev 0

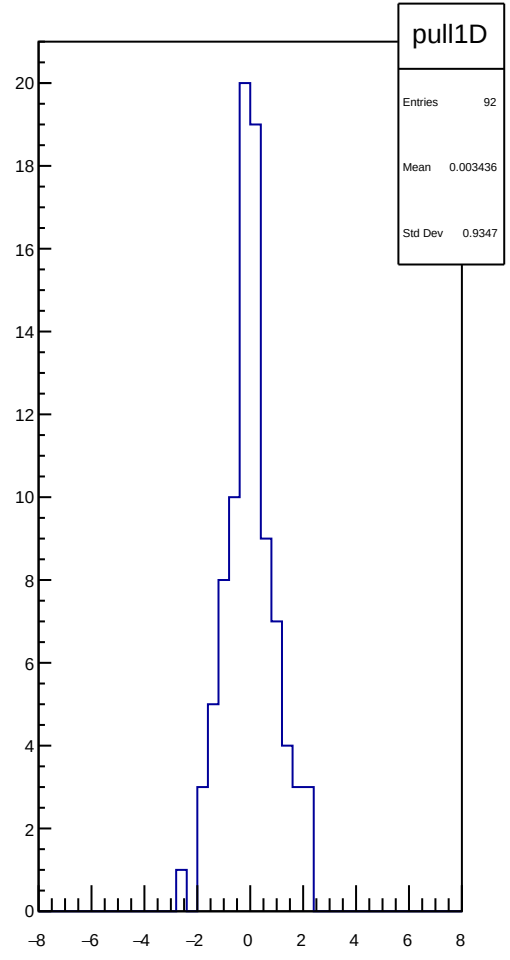

pull1D
Entries 92
Mean 0.003438
Std Dev 0.9347

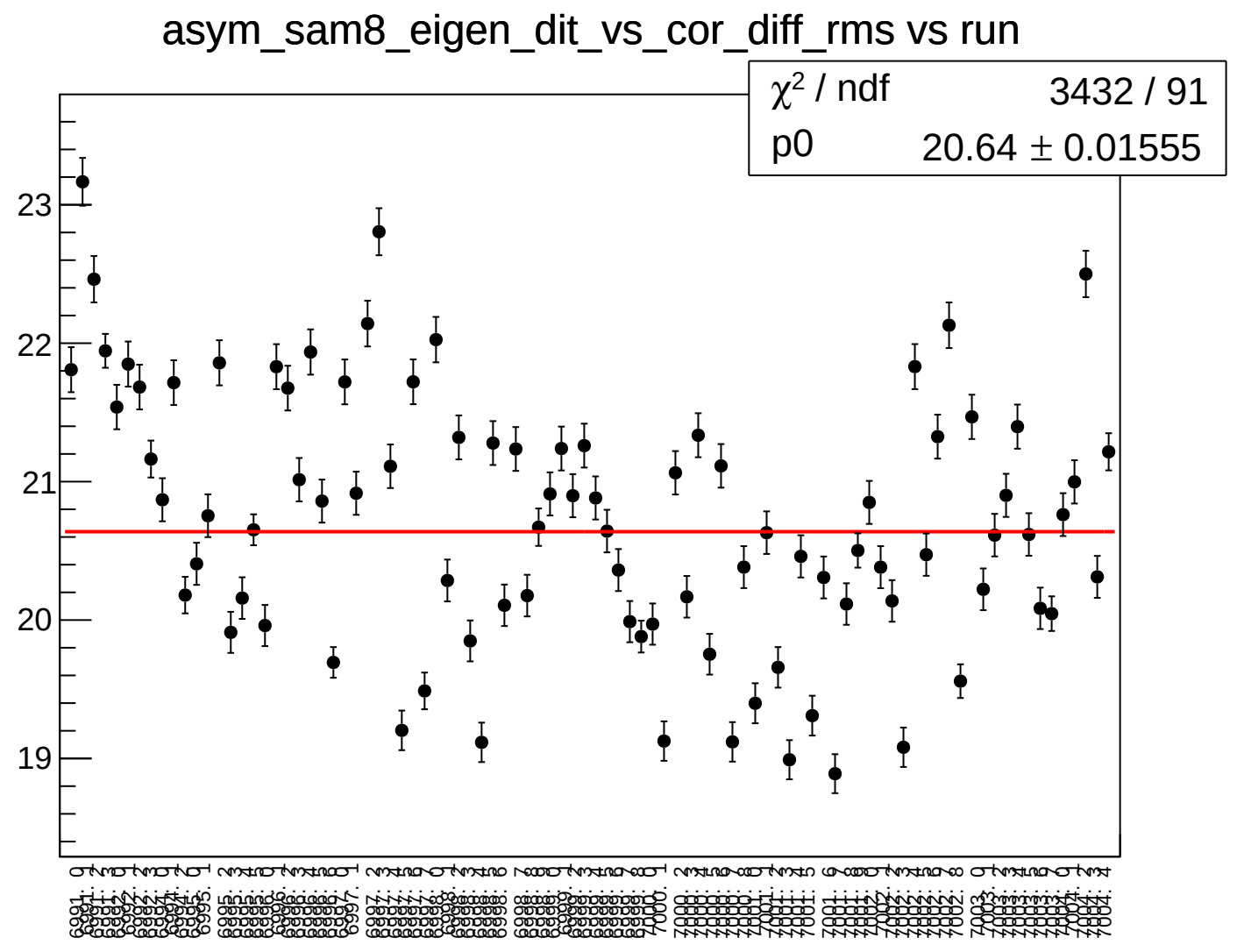

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3432 / 91
p0 20.64 ± 0.01555
23
22
21
20
19

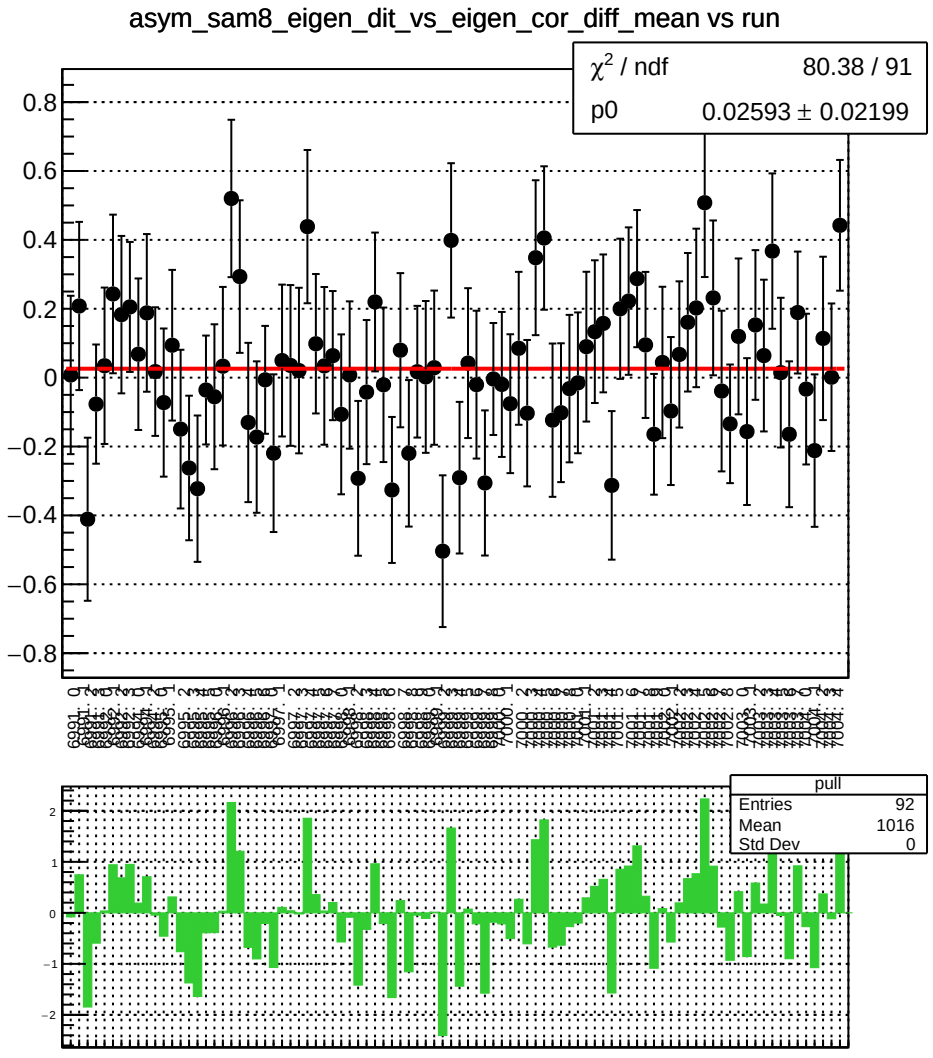

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.8 / 91
p0 2.014e−06 ± 1.941e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean 1236
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.003019
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

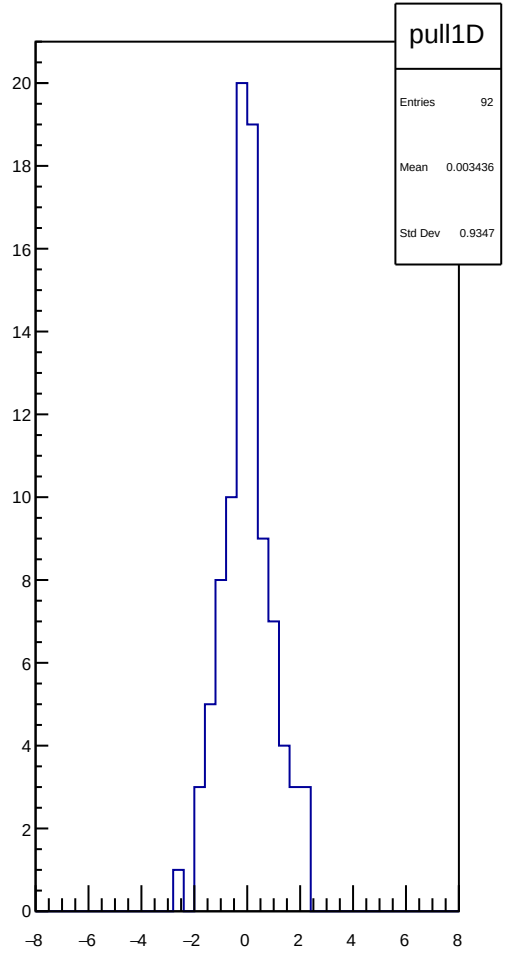

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2037 / 91
p0 0.001823 ± 1.373e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165

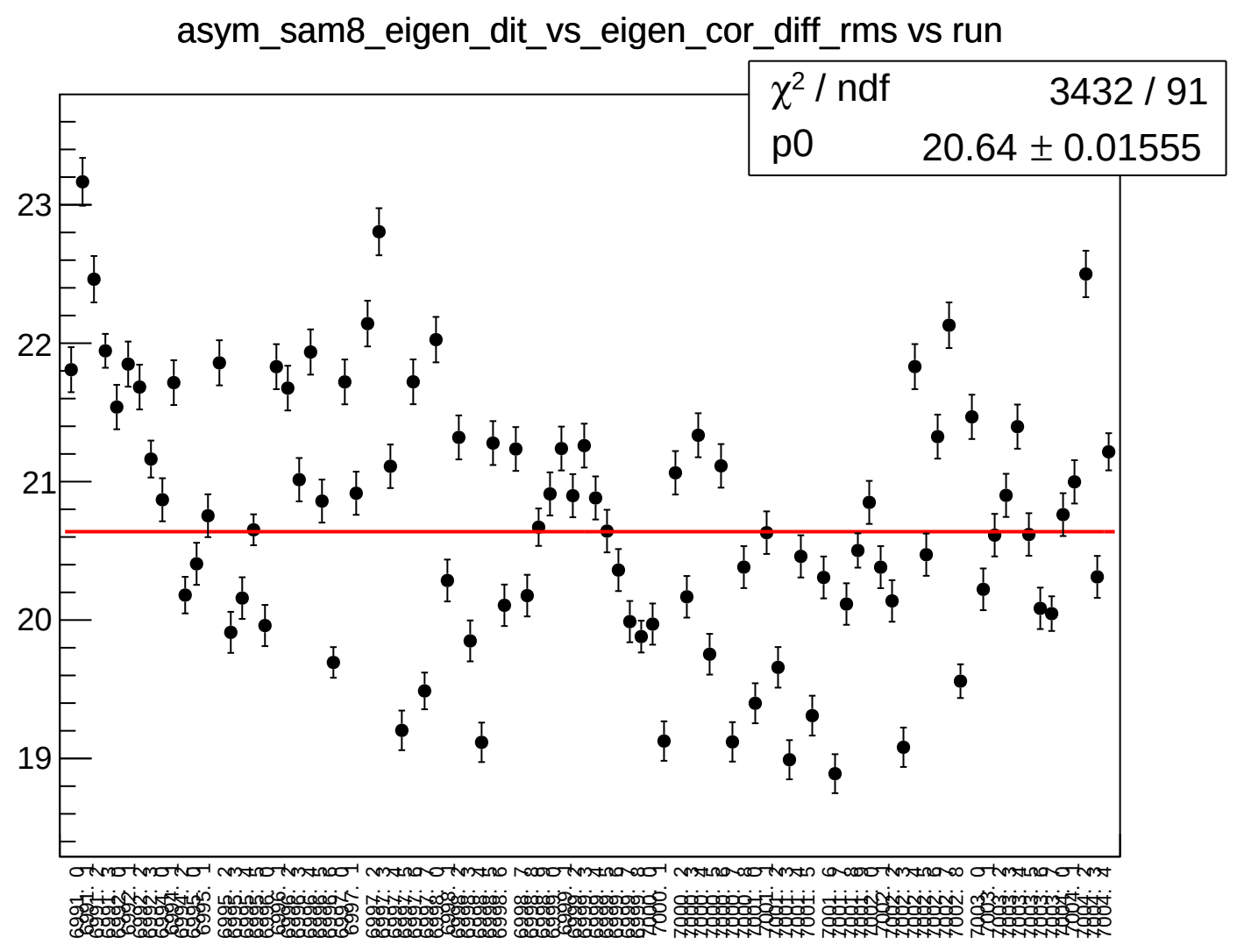

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.38 / 91
p0 0.02593 ± 0.02199
pull
Entries 92
Mean 1016
Std Dev 0

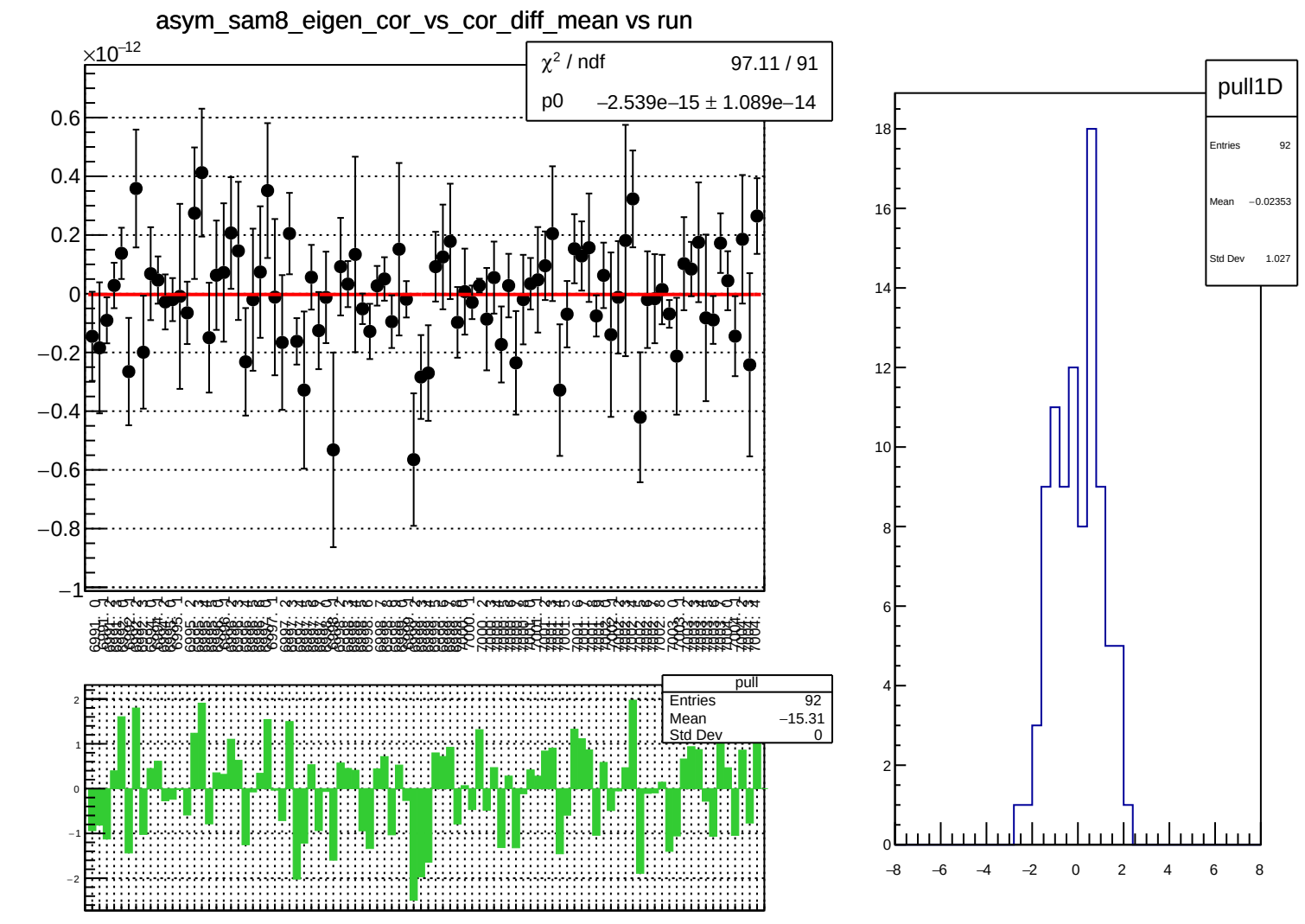

pull1D
Entries 92
Mean 0.003436
Std Dev 0.9347

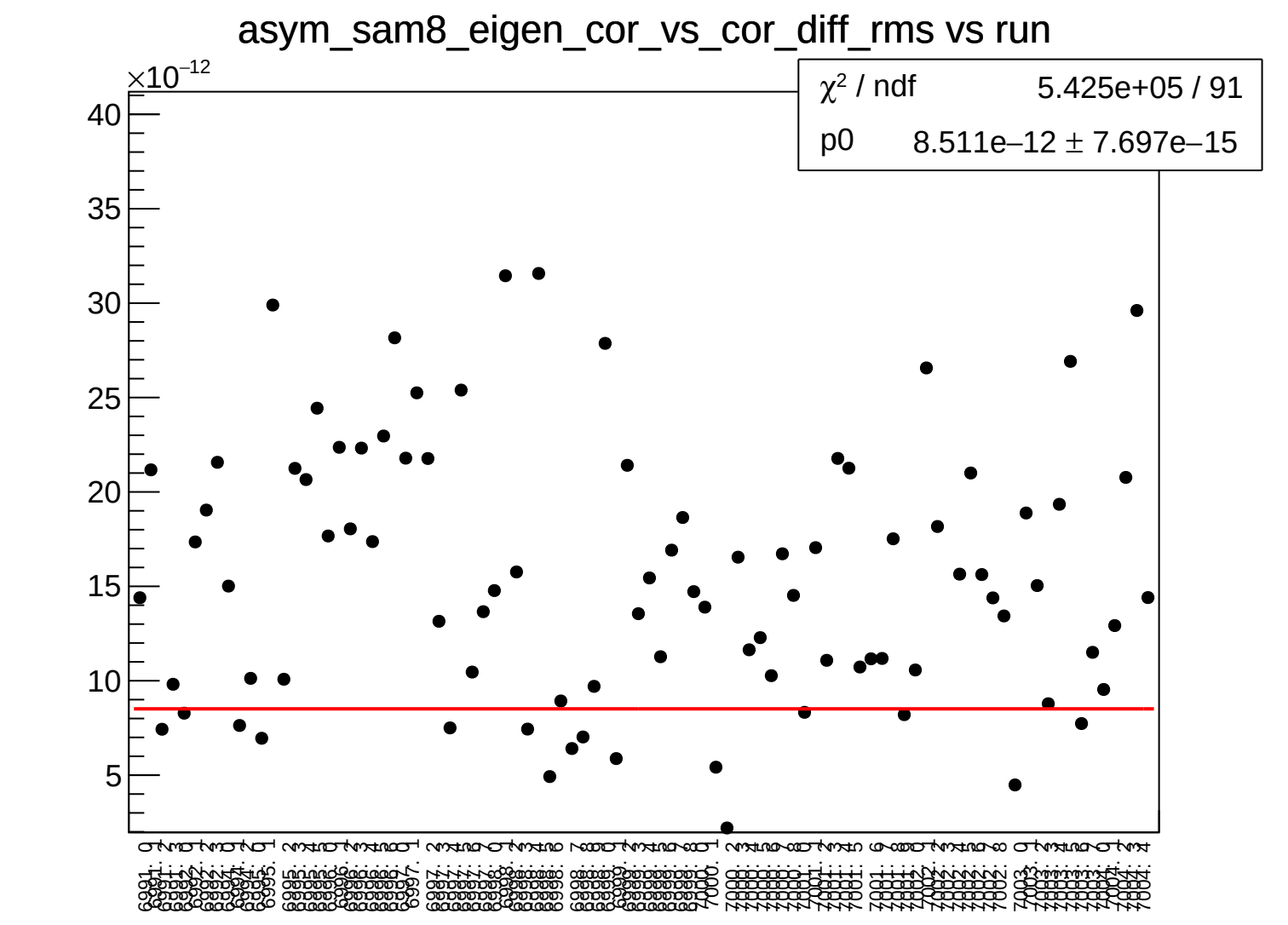

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3432 / 91
p0 20.64 ± 0.01555
23
22
21
20
19

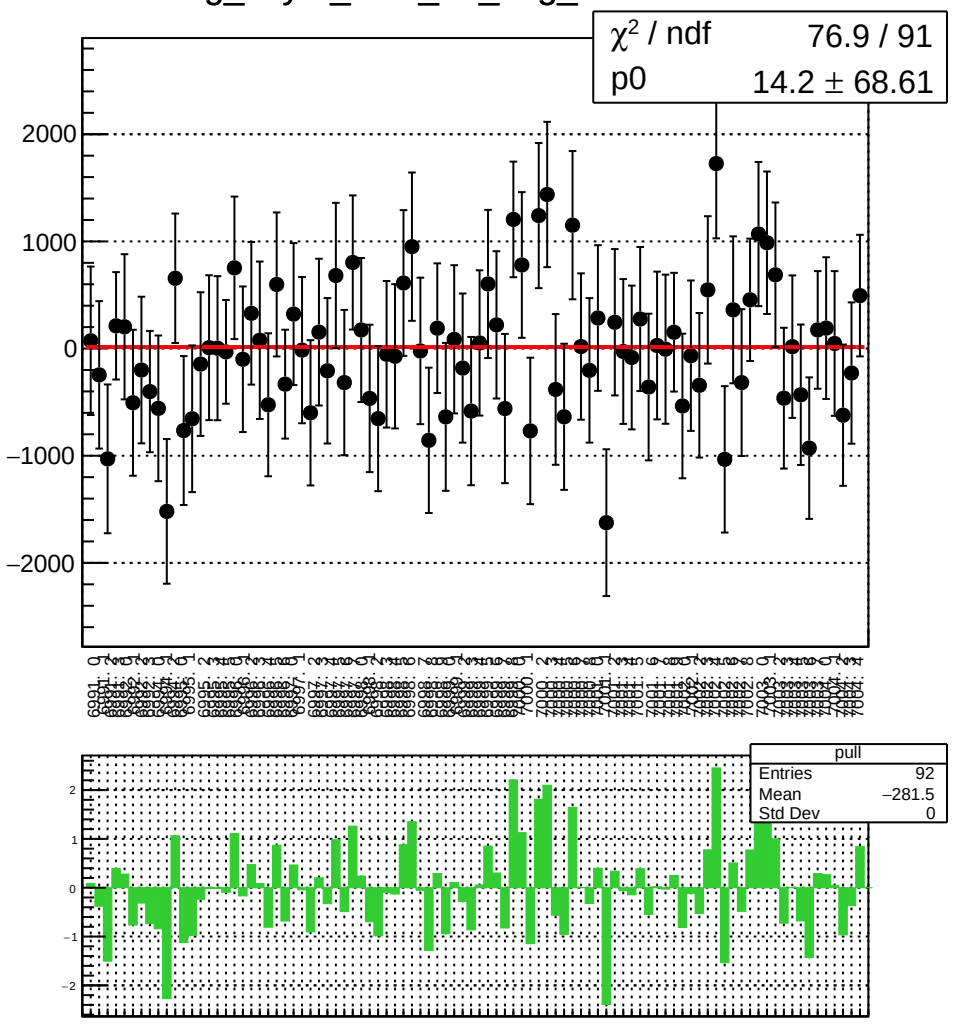

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.38 / 91
p0 0.02593 ± 0.02199
pull
Entries 92
Mean 1016
Std Dev 0

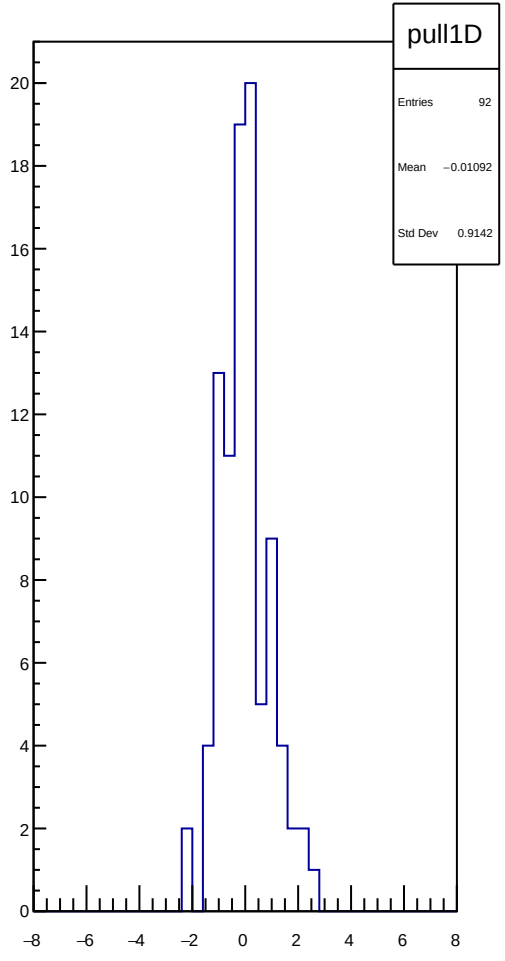

pull1D
Entries 92
Mean 0.003436
Std Dev 0.9347

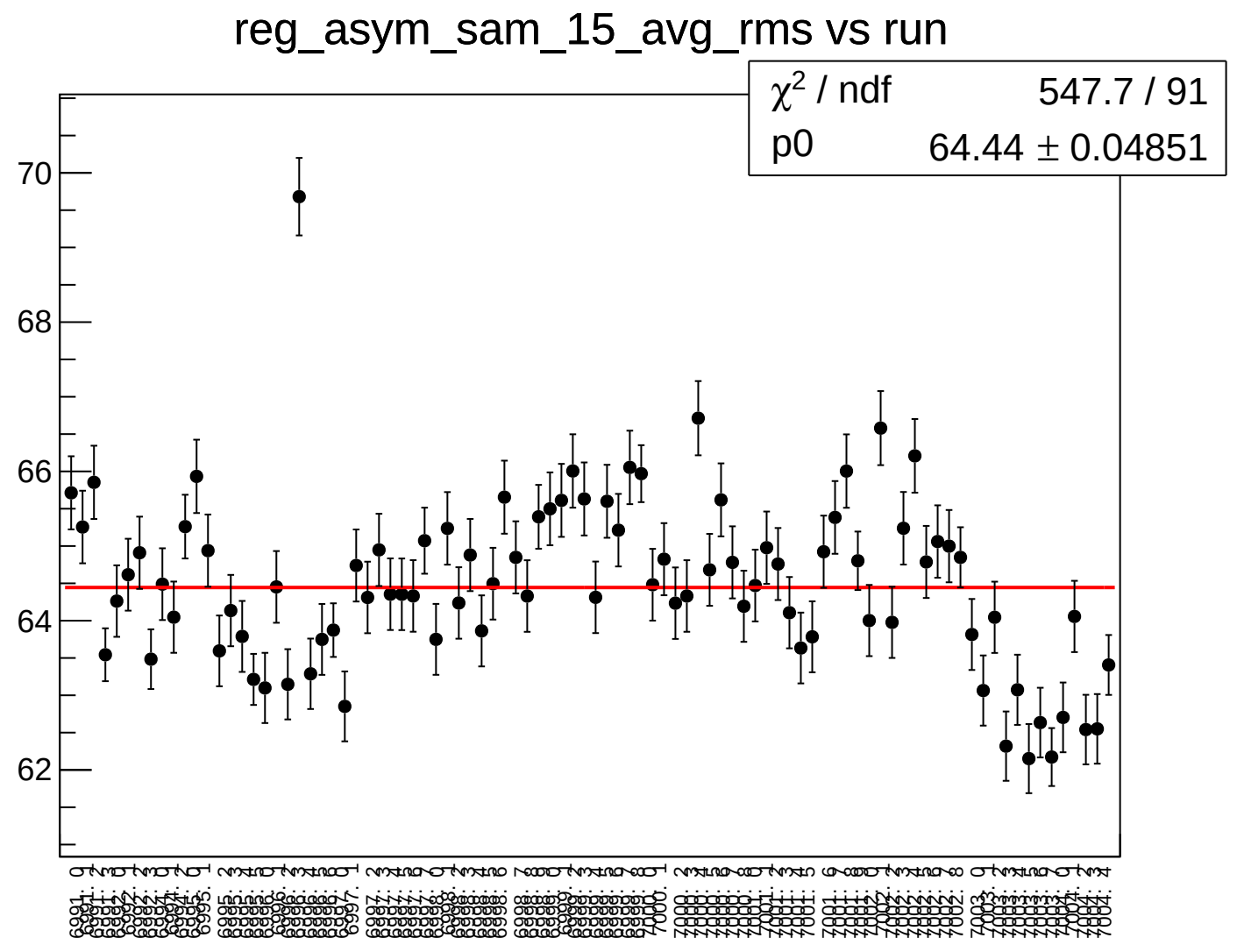

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3432 / 91
p0 20.64 ± 0.01555
23
22
21
20
19

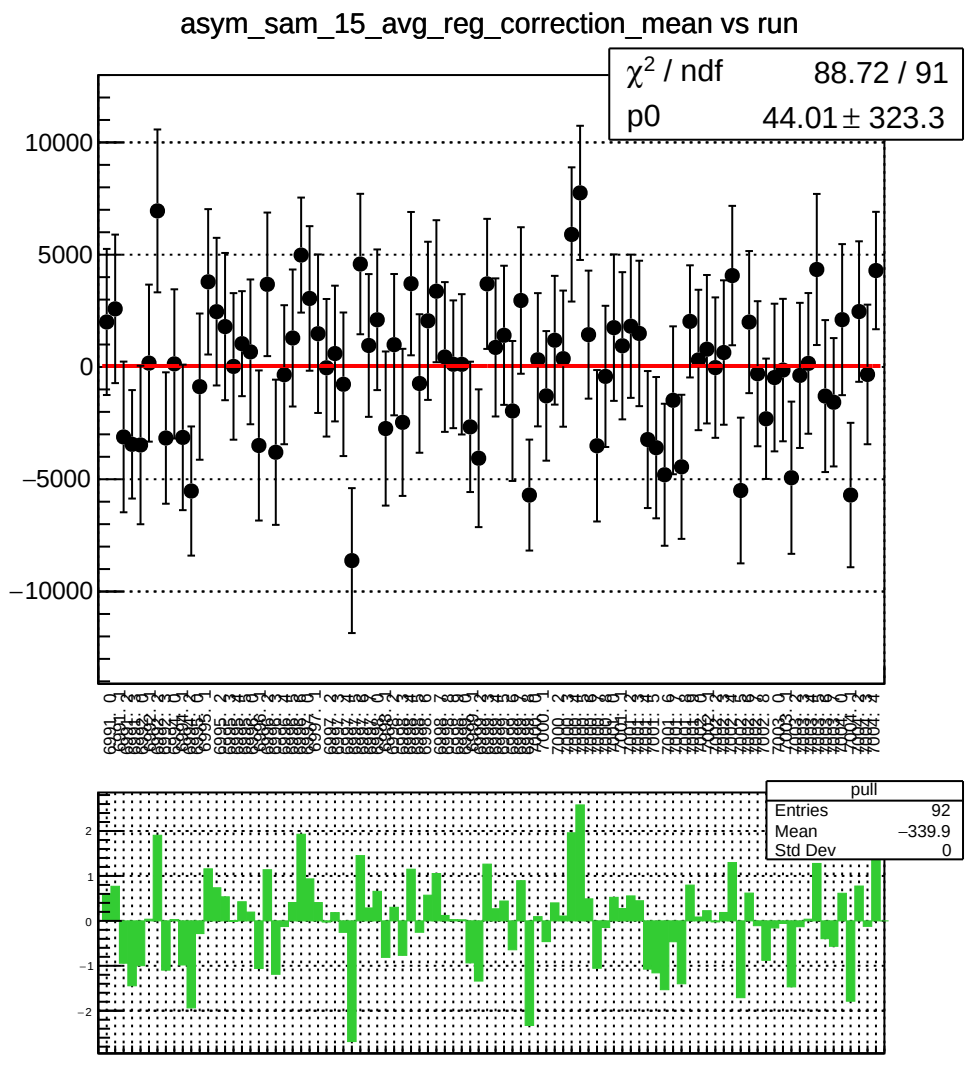

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.11 / 91
p0 −2.539e−15 ± 1.089e−14
pull
Entries 92
Mean −15.31
Std Dev 0
pull1D
Entries 92
Mean −0.02353
Std Dev 1.027

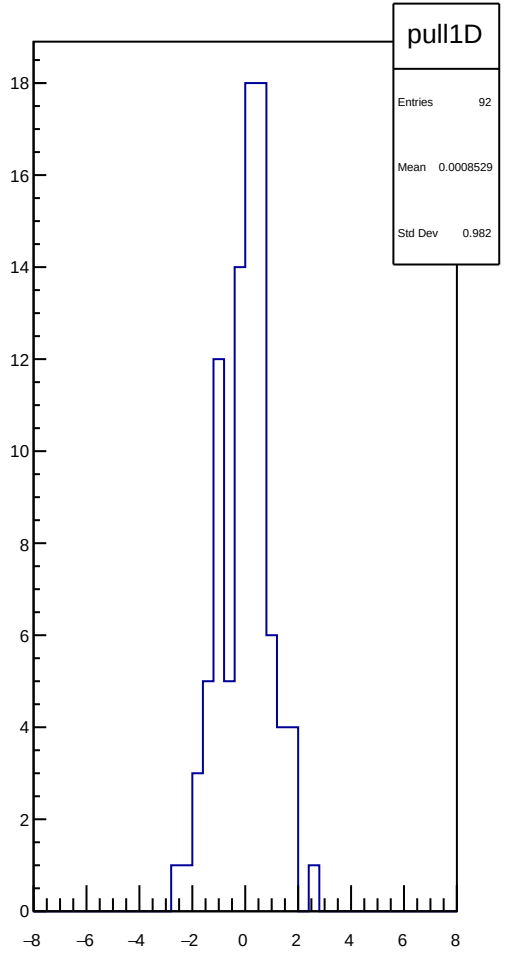

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.425e+05 / 91
p0 8.511e−12 ± 7.697e−15
40
35
30
25
20
15
10
5

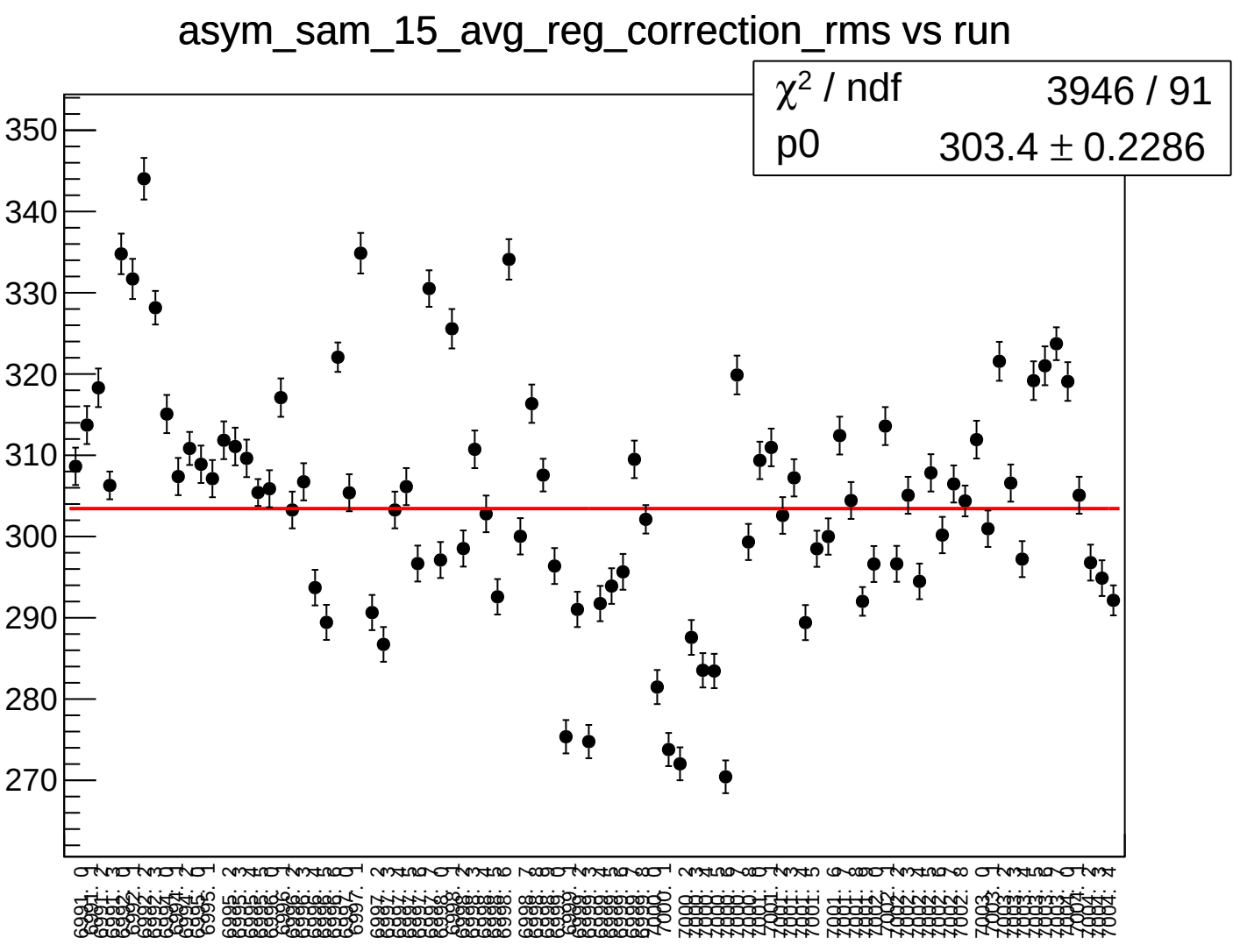

reg_asym_sam_15_avg_mean vs run
χ² / ndf 76.9 / 91
p0 14.2 ± 68.61
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −281.5
Std Dev 0
2
1
0
−1
−2

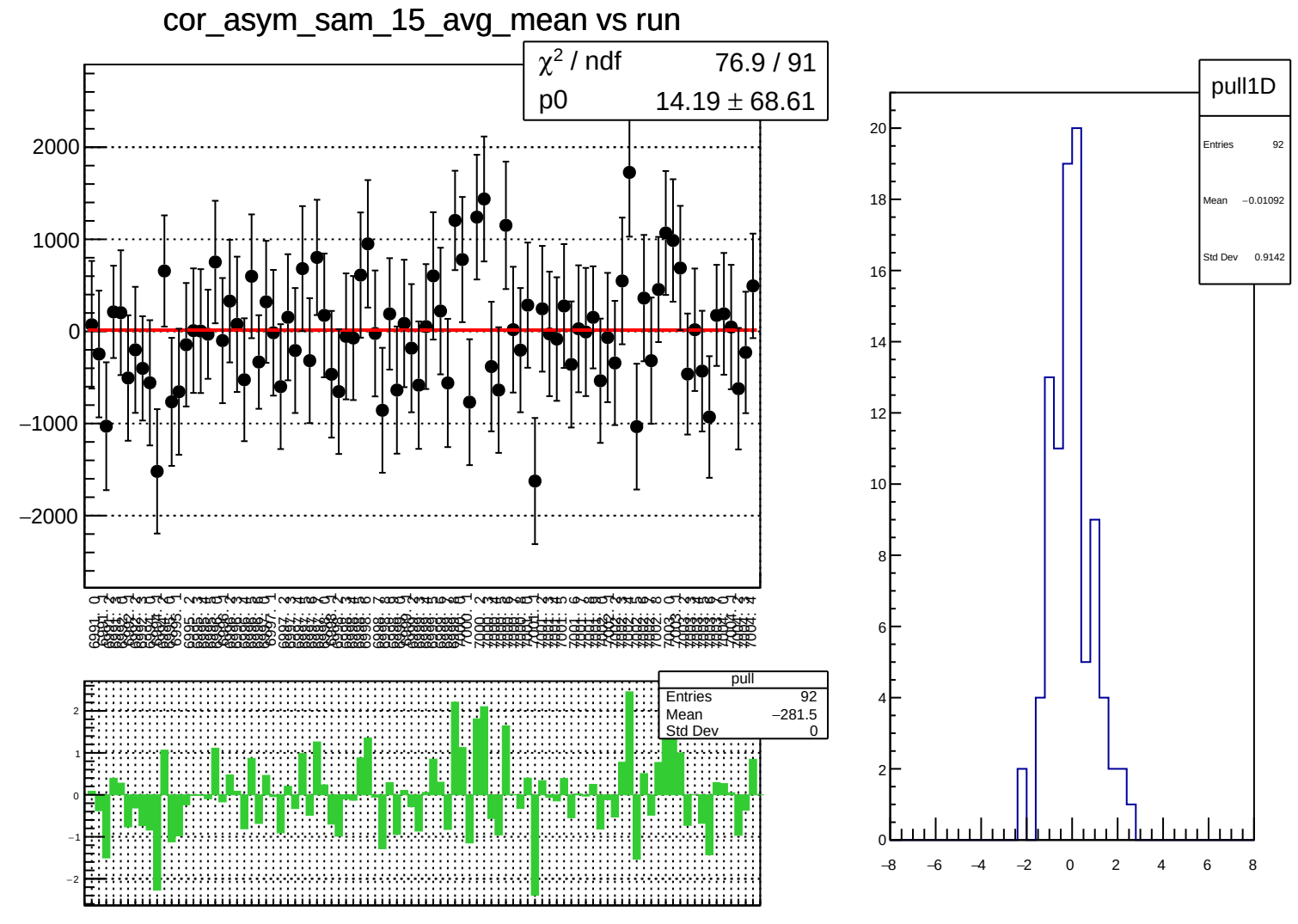

pull1D
Entries 92
Mean −0.01092
Std Dev 0.9142
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

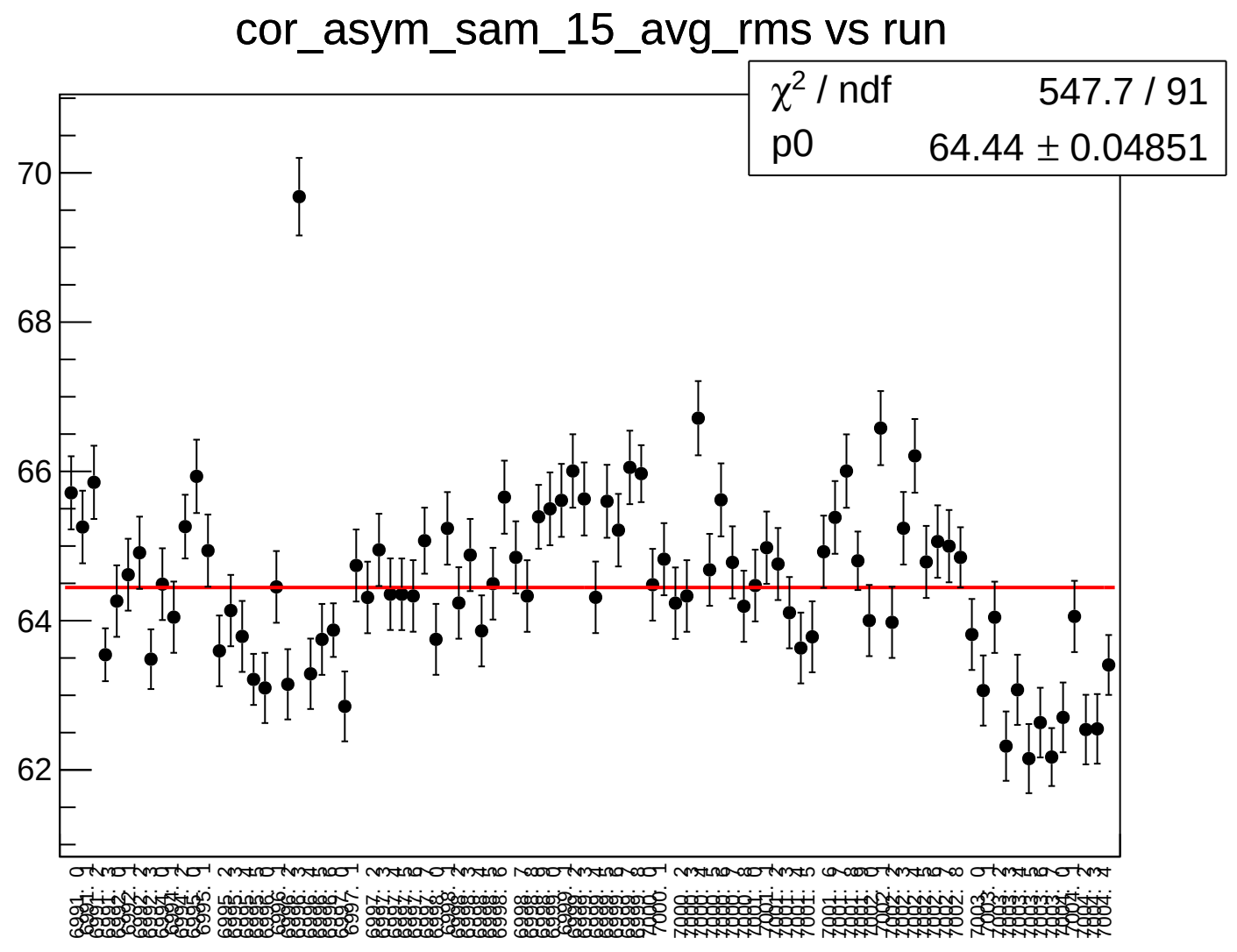

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 547.7 / 91
p0 64.44 ± 0.04851
70
68
66
64
62

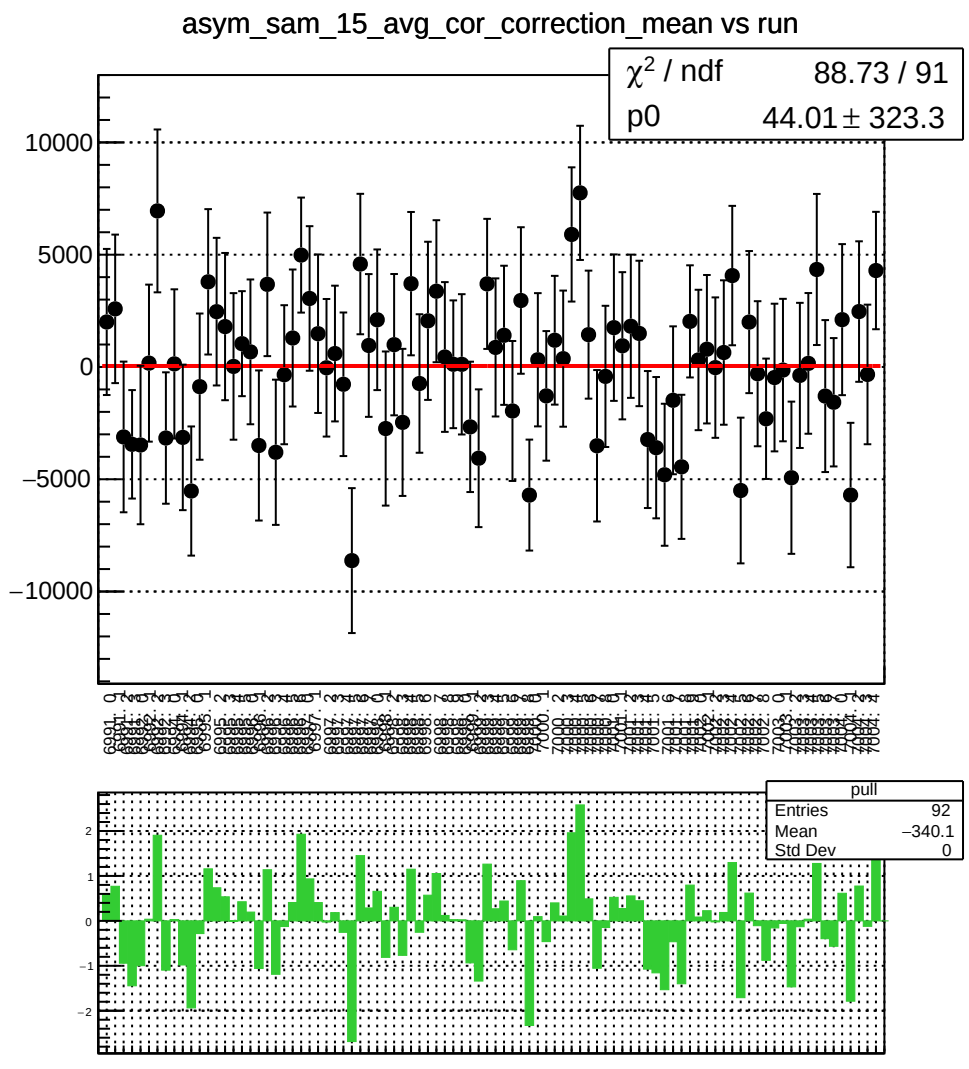

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 88.72 / 91
p0 44.01 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −339.9
Std Dev 0
2
1
0
−1
−2

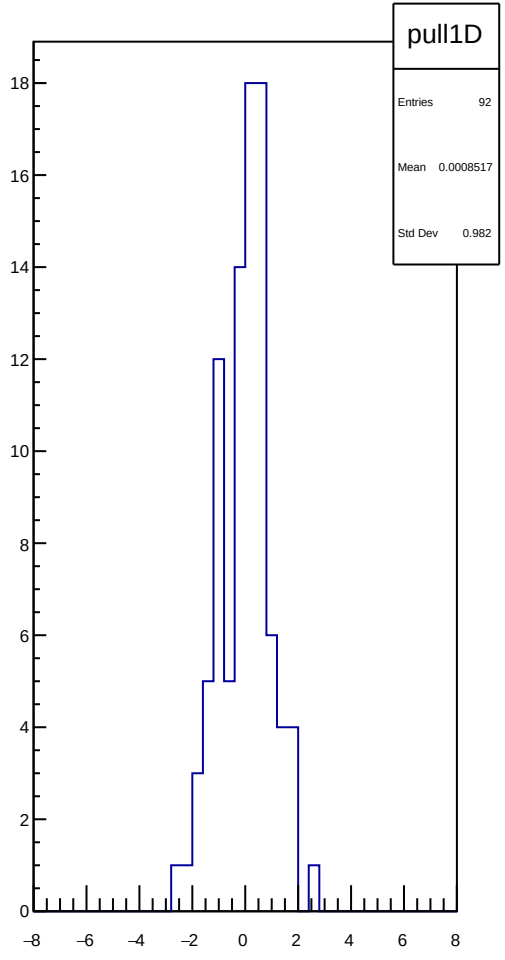

pull1D
Entries 92
Mean 0.0008529
Std Dev 0.982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

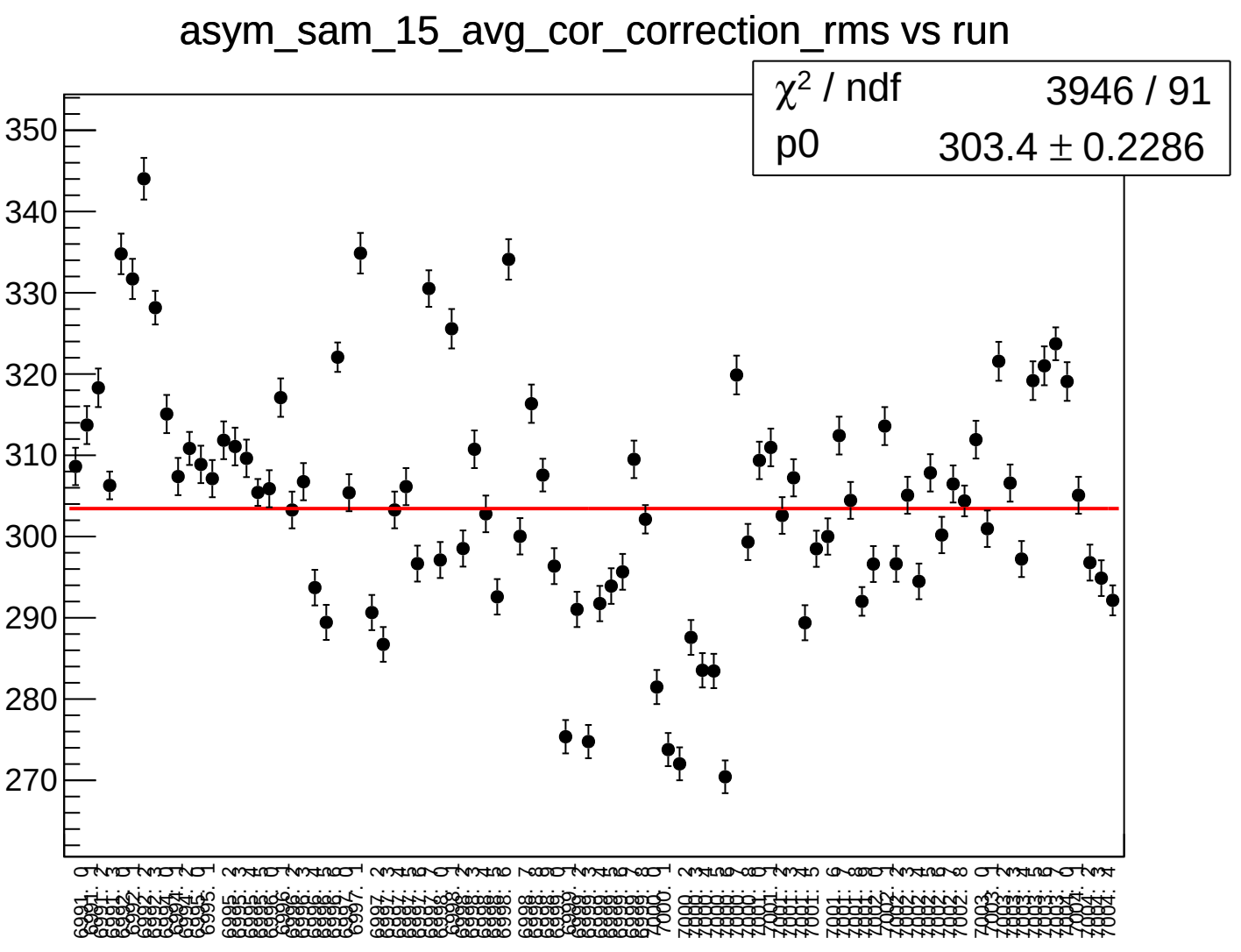

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 3946 / 91
p0 303.4 ± 0.2286
350
340
330
320
310
300
290
280
270

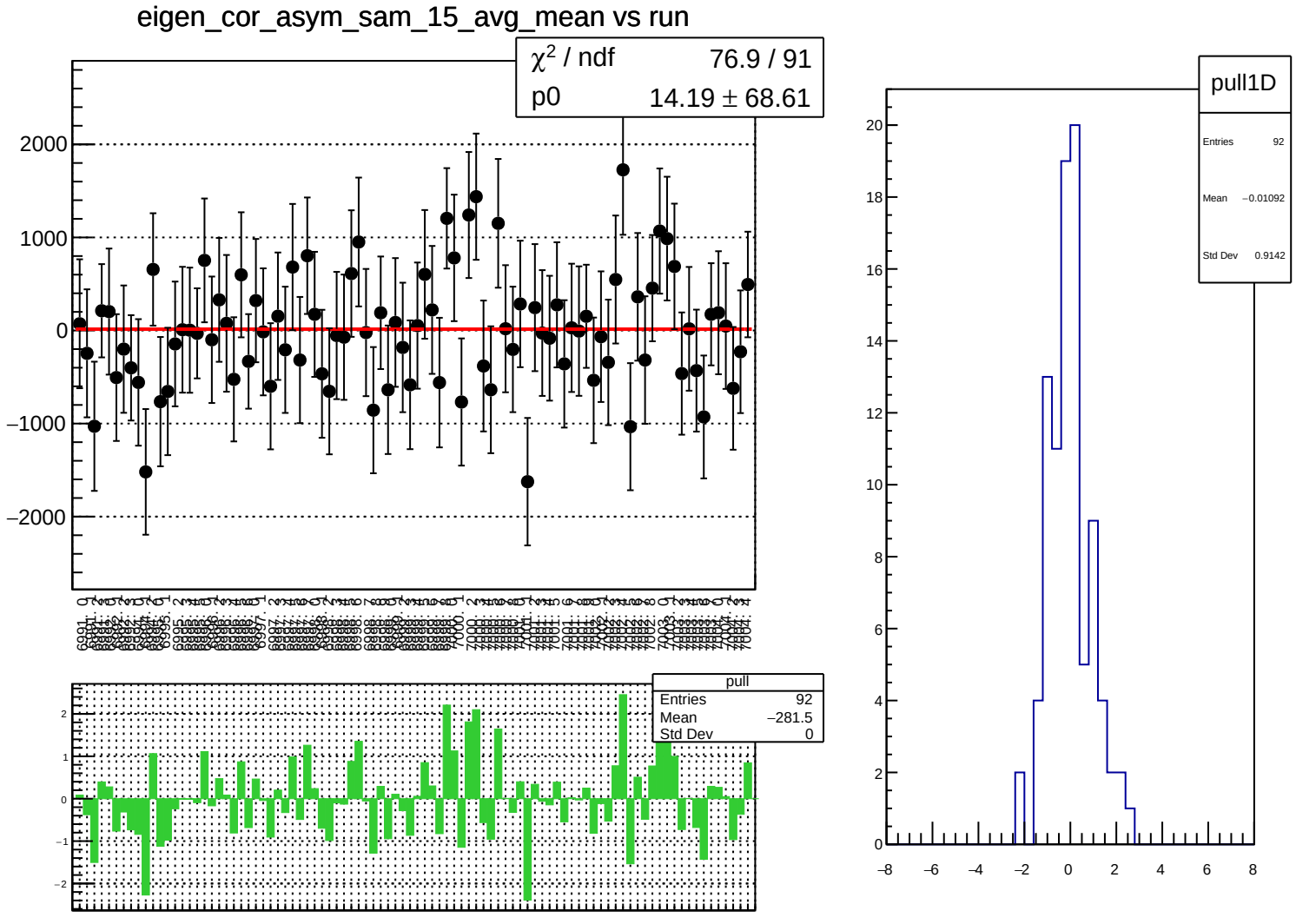

cor_asym_sam_15_avg_mean vs run
χ² / ndf 76.9 / 91
p0 14.19 ± 68.61
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −281.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01092
Std Dev 0.9142
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

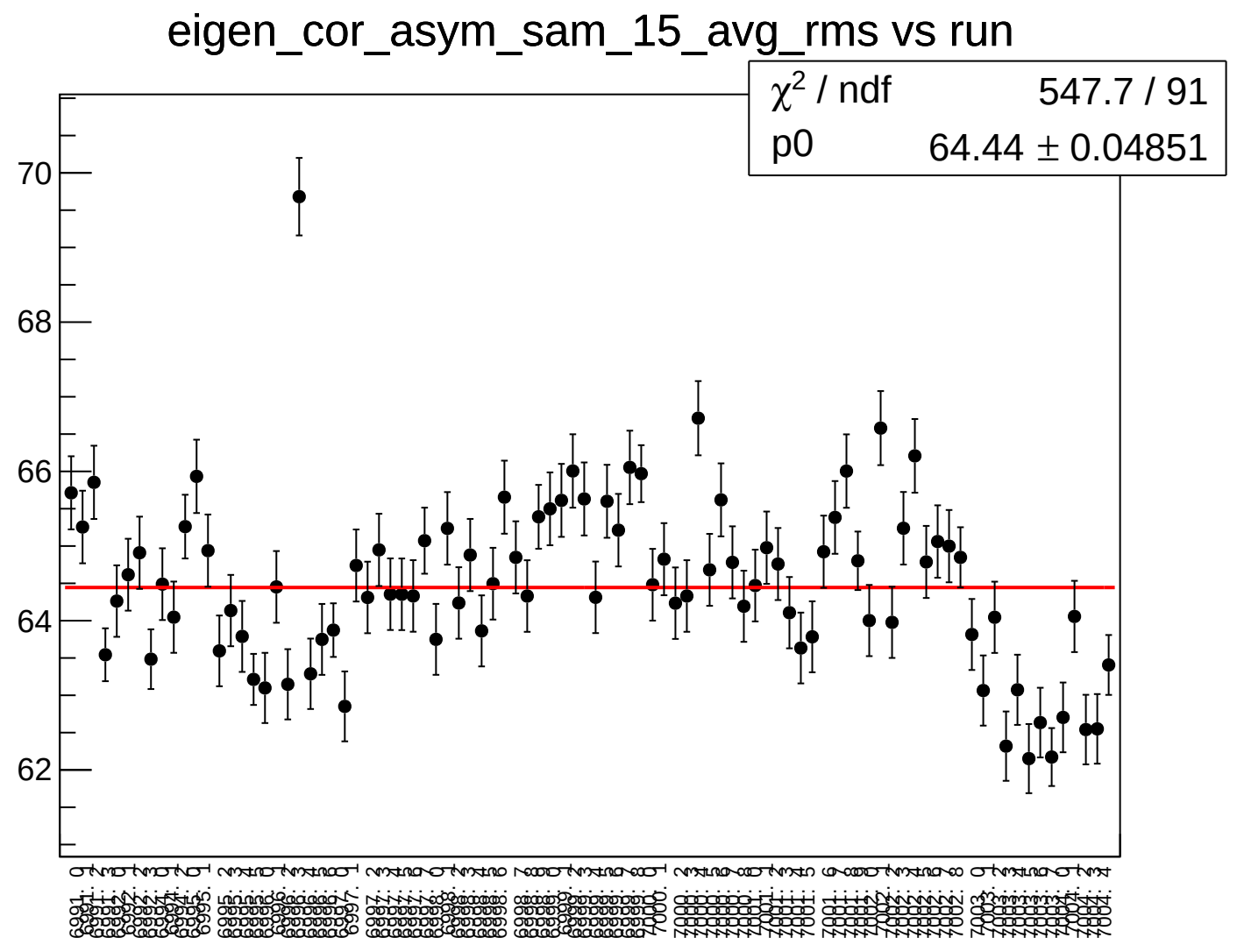

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 547.7 / 91
p0 64.44 ± 0.04851
70
68
66
64
62

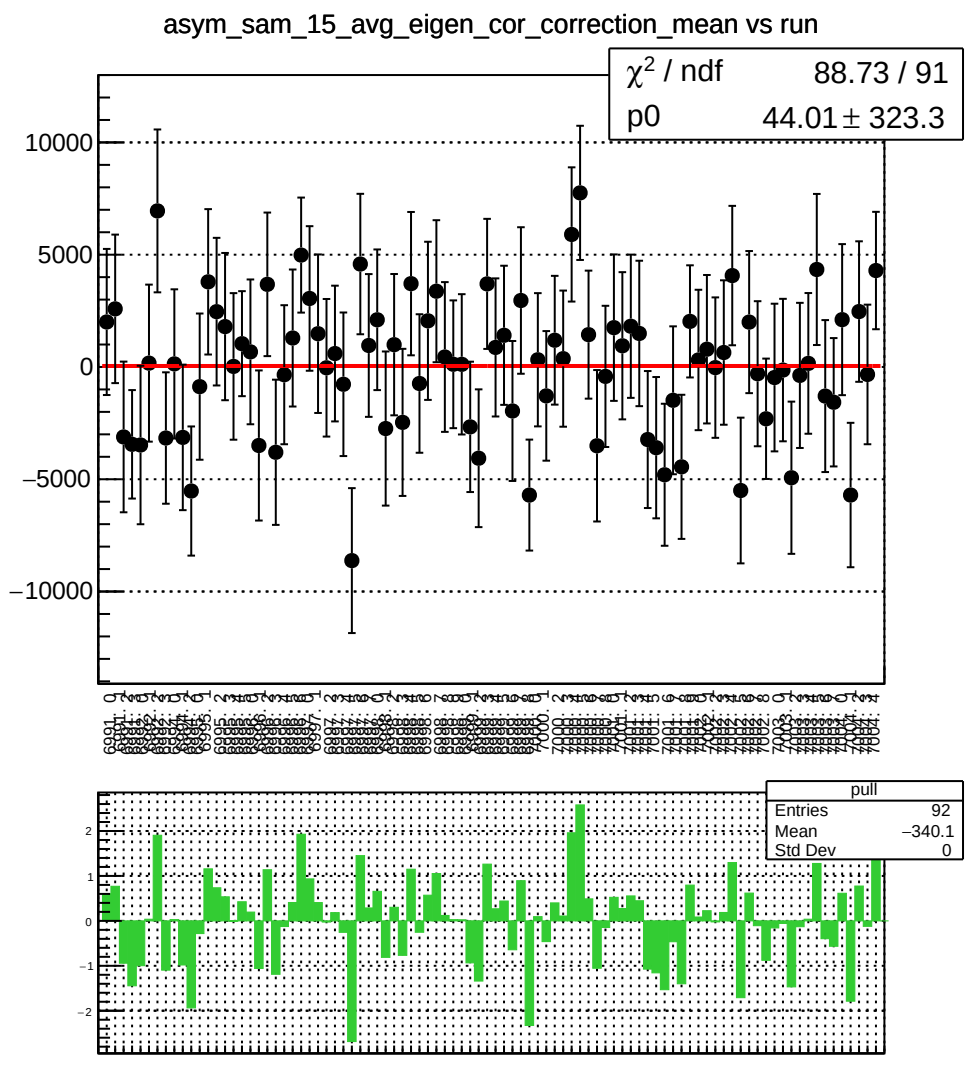

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 88.73 / 91
p0 44.01 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −340.1
Std Dev 0
2
1
0
−1
−2

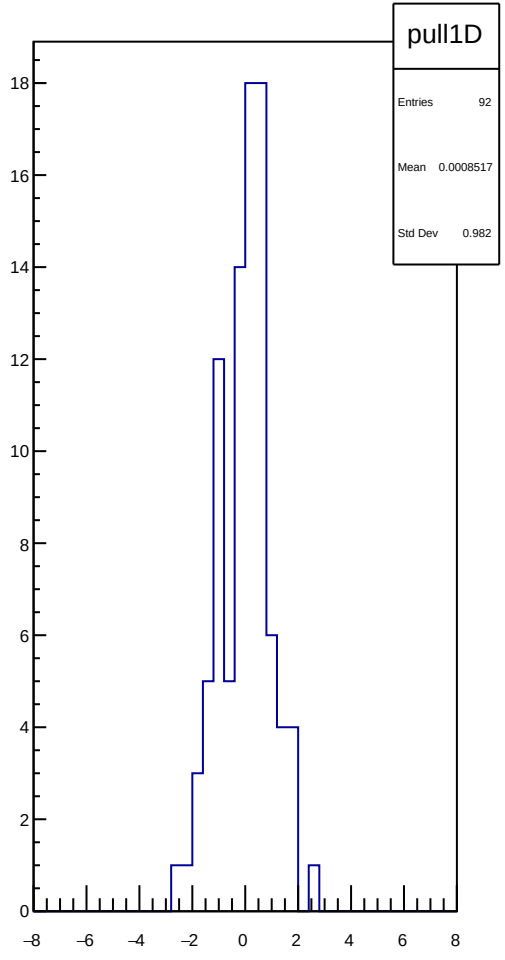

pull1D
Entries 92
Mean 0.0008517
Std Dev 0.982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

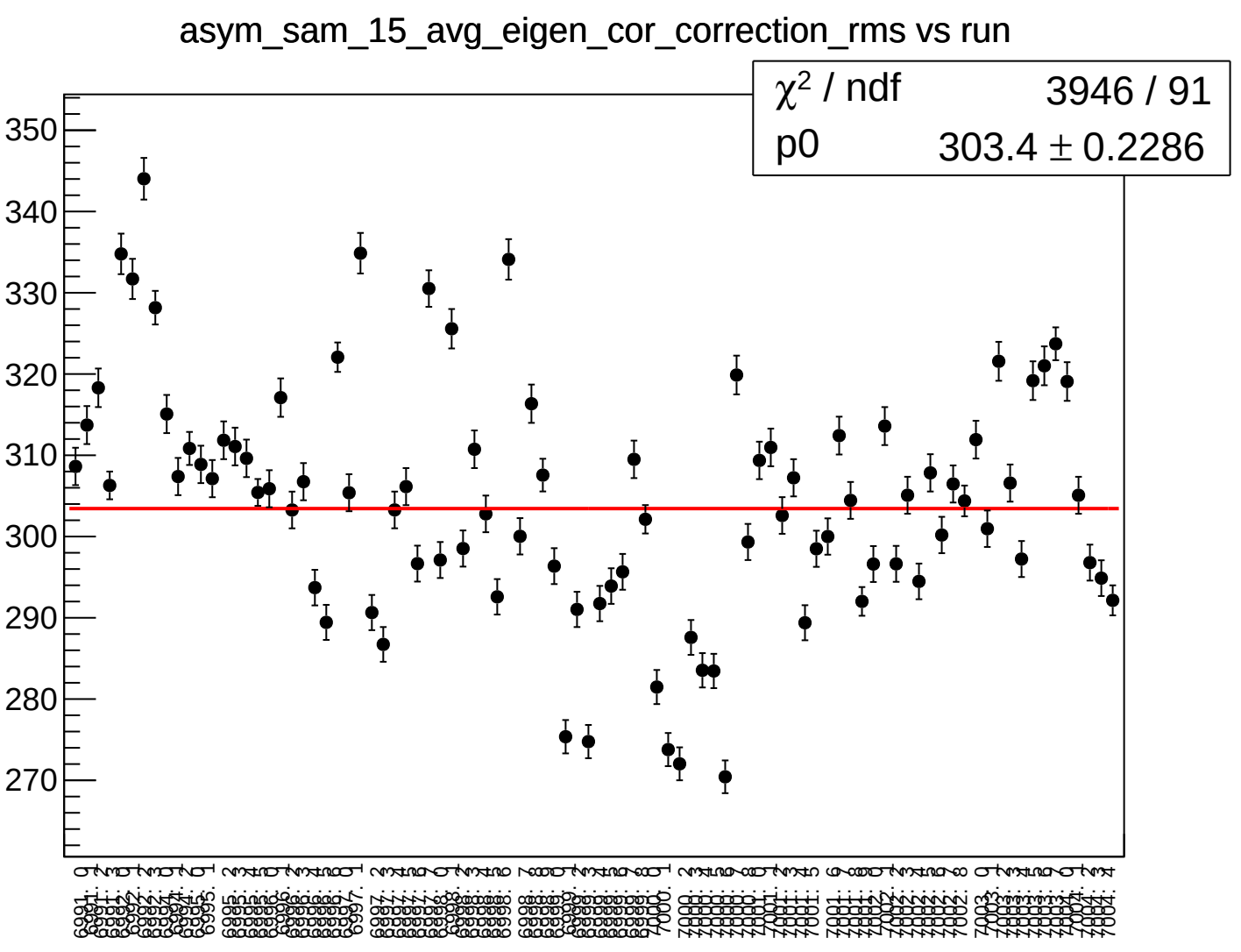

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 3946 / 91
p0 303.4 ± 0.2286
350
340
330
320
310
300
290
280
270

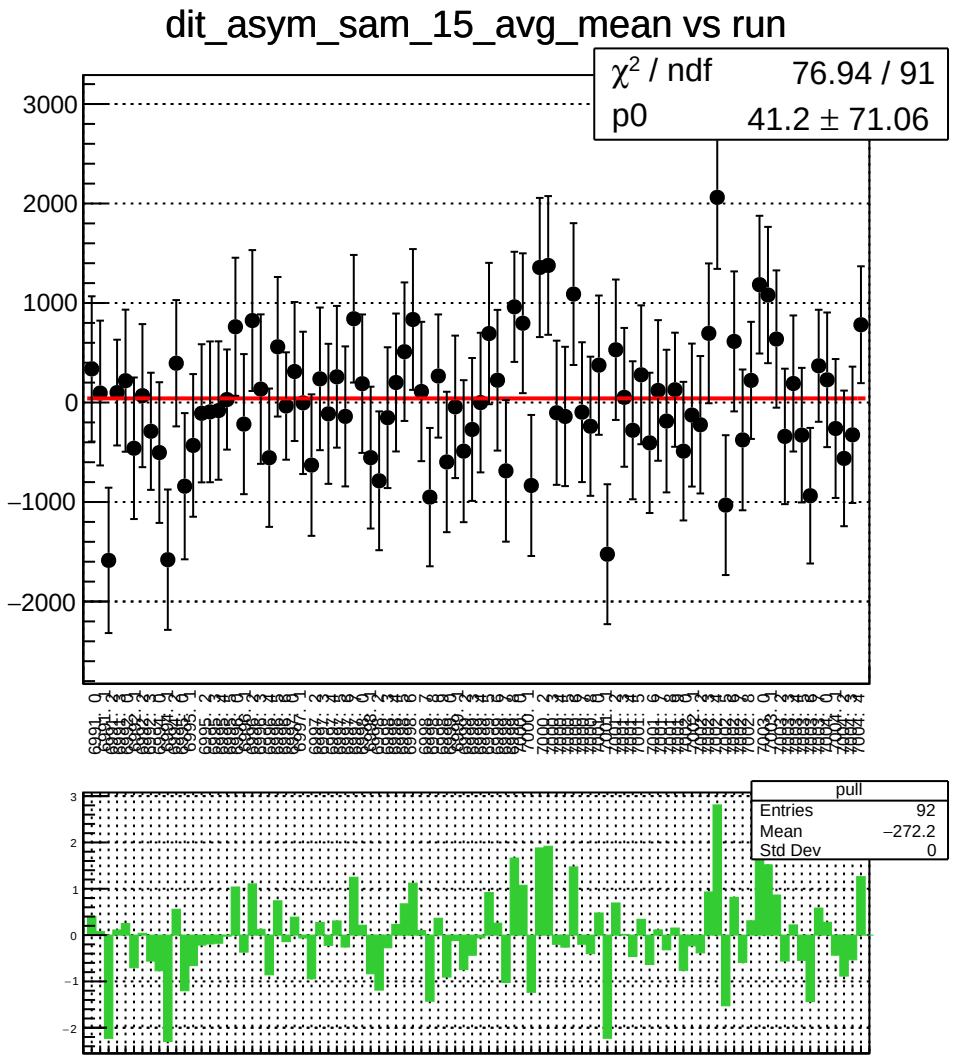

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 76.9 / 91
p0 14.19 ± 68.61
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −281.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01092
Std Dev 0.9142
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

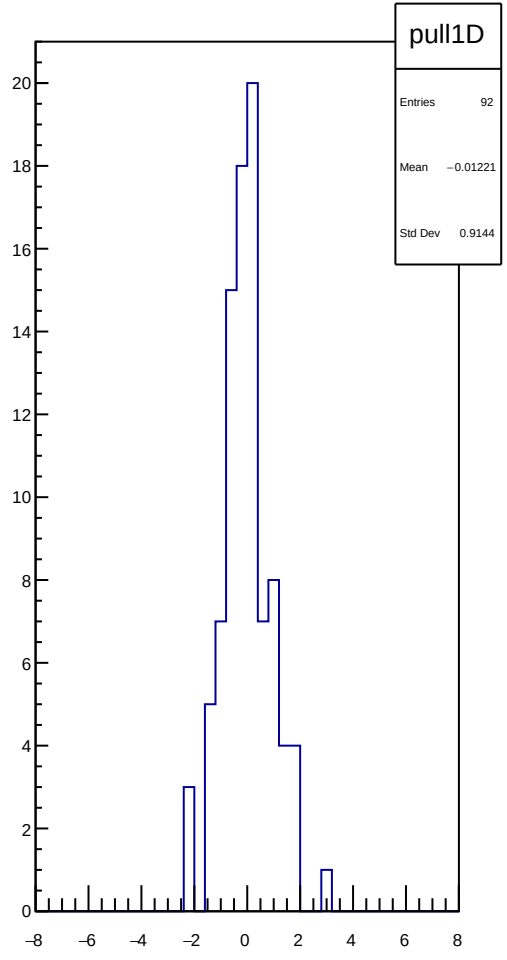

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 547.7 / 91
p0 64.44 ± 0.04851
70
68
66
64
62

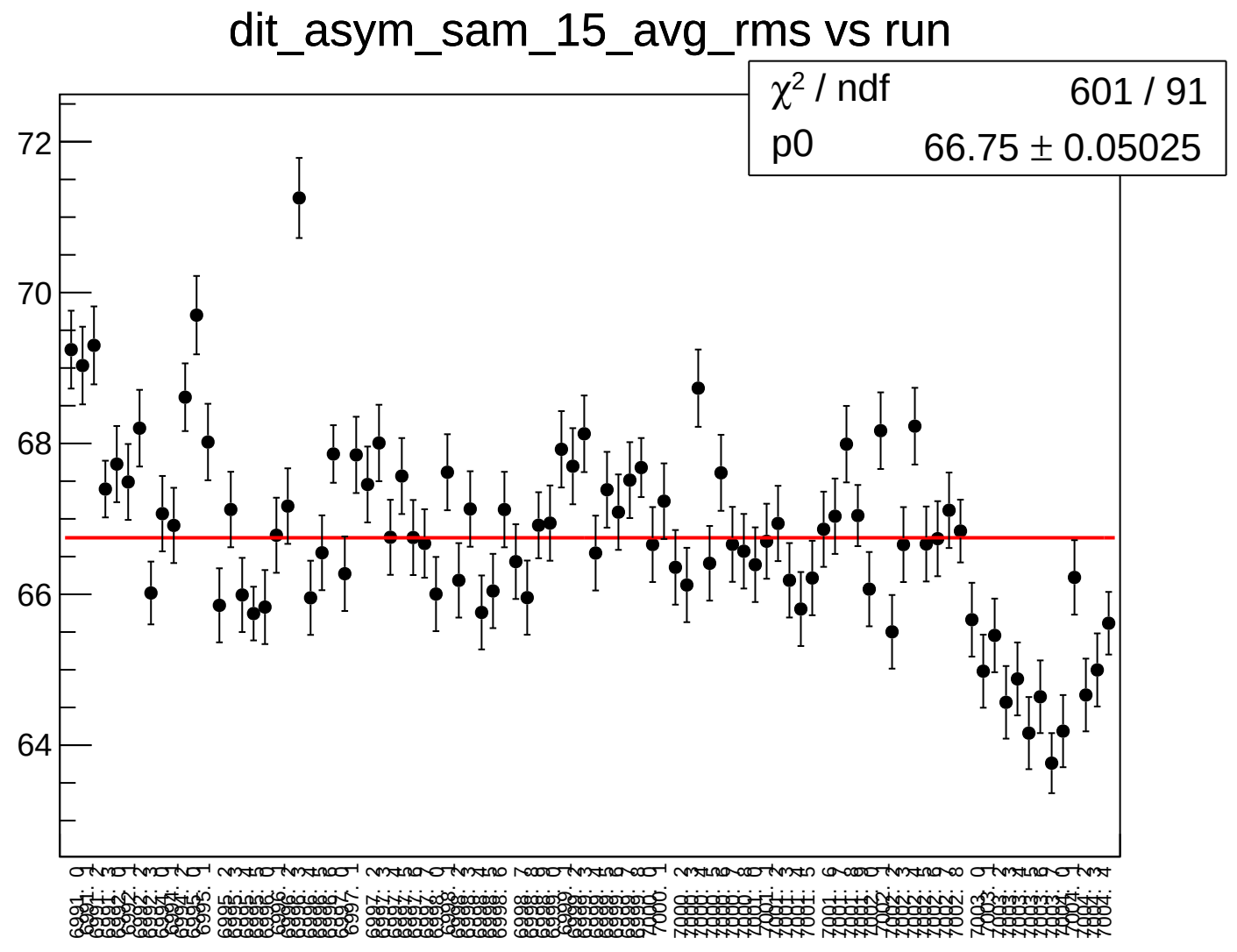

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.73 / 91
p0 44.01 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −340.1
Std Dev 0
2
1
0
−1
−2

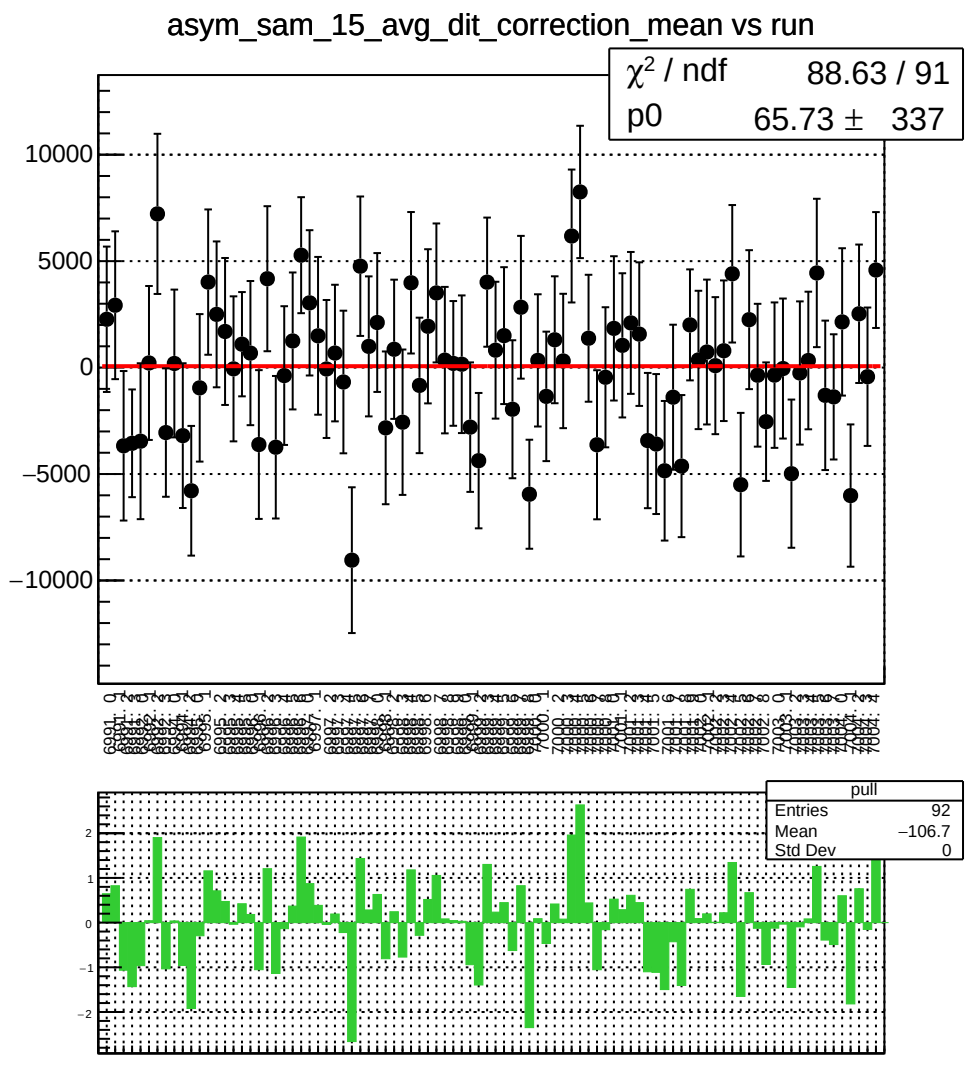

pull1D
Entries 92
Mean 0.0008517
Std Dev 0.982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

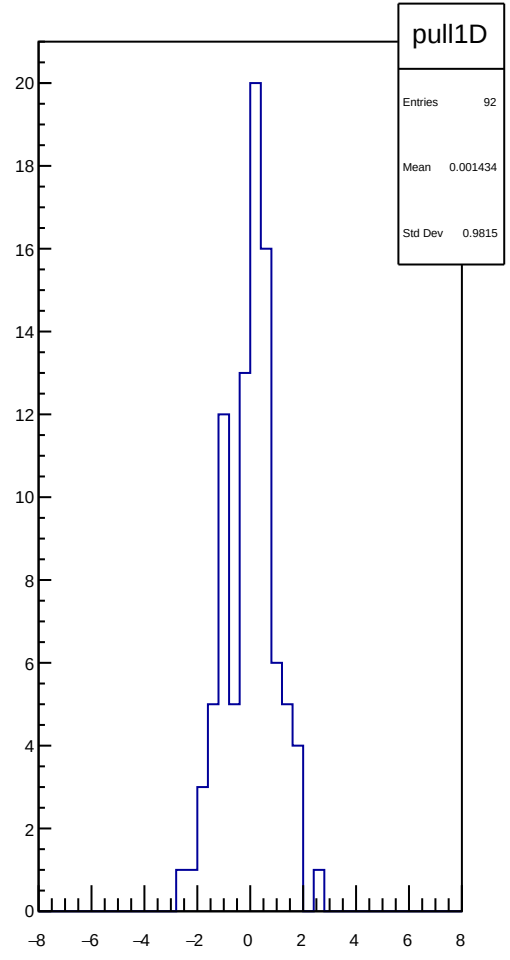

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 3946 / 91
p0 303.4 ± 0.2286
350
340
330
320
310
300
290
280
270

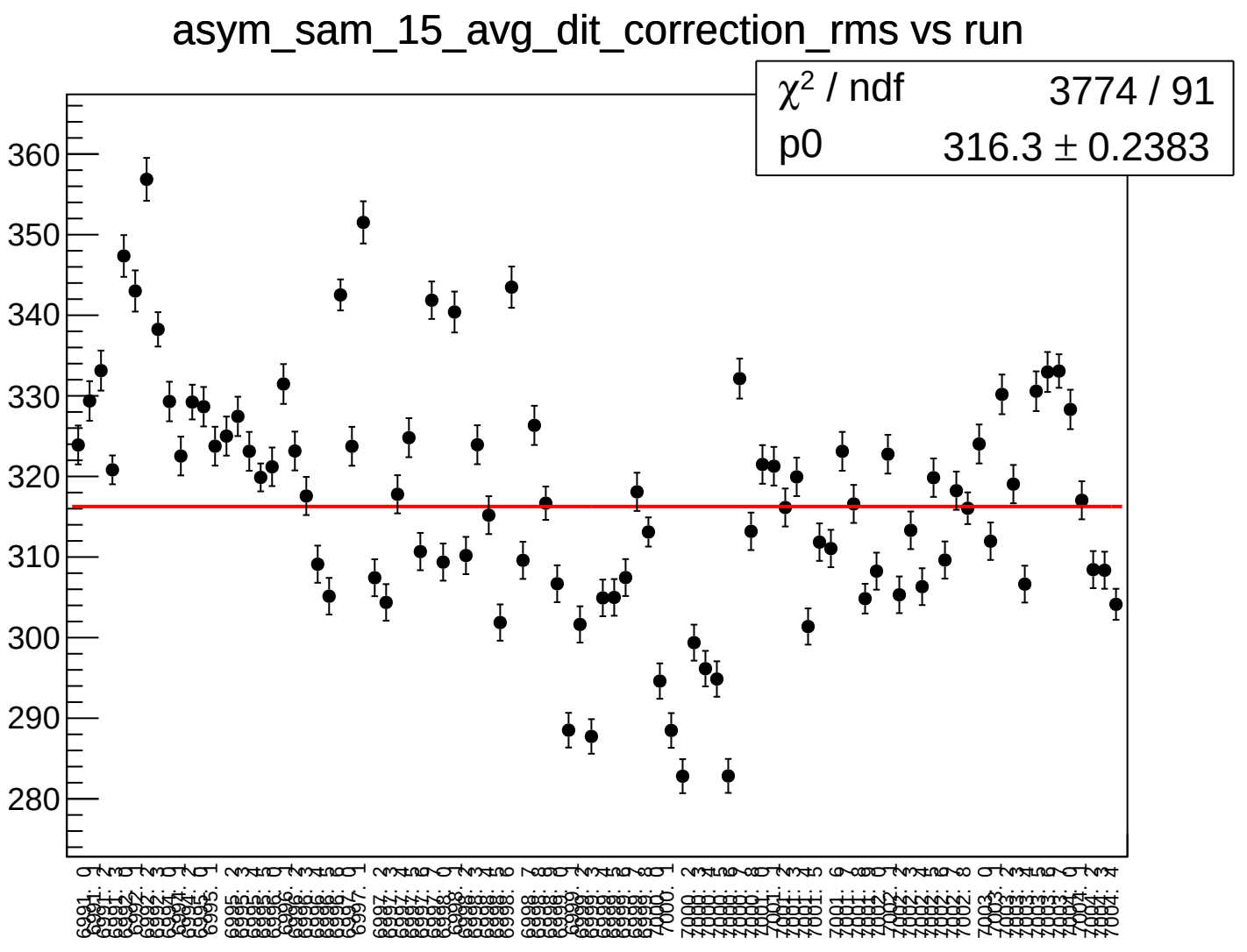

dit_asym_sam_15_avg_mean vs run
χ² / ndf 76.94 / 91
p0 41.2 ± 71.06
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −272.2
Std Dev 0
3
2
1
0
−1
−2

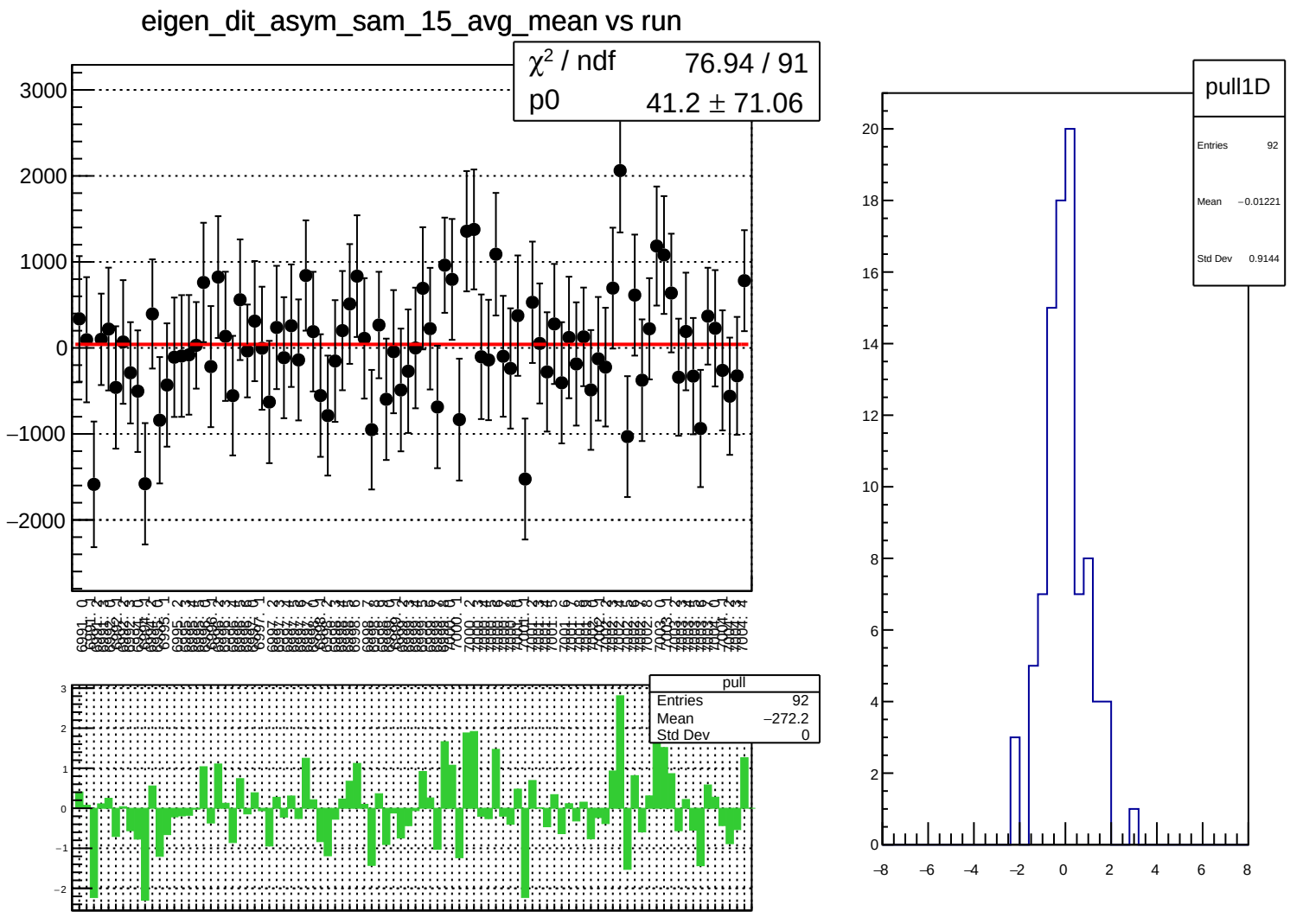

pull1D
Entries 92
Mean −0.01221
Std Dev 0.9144
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

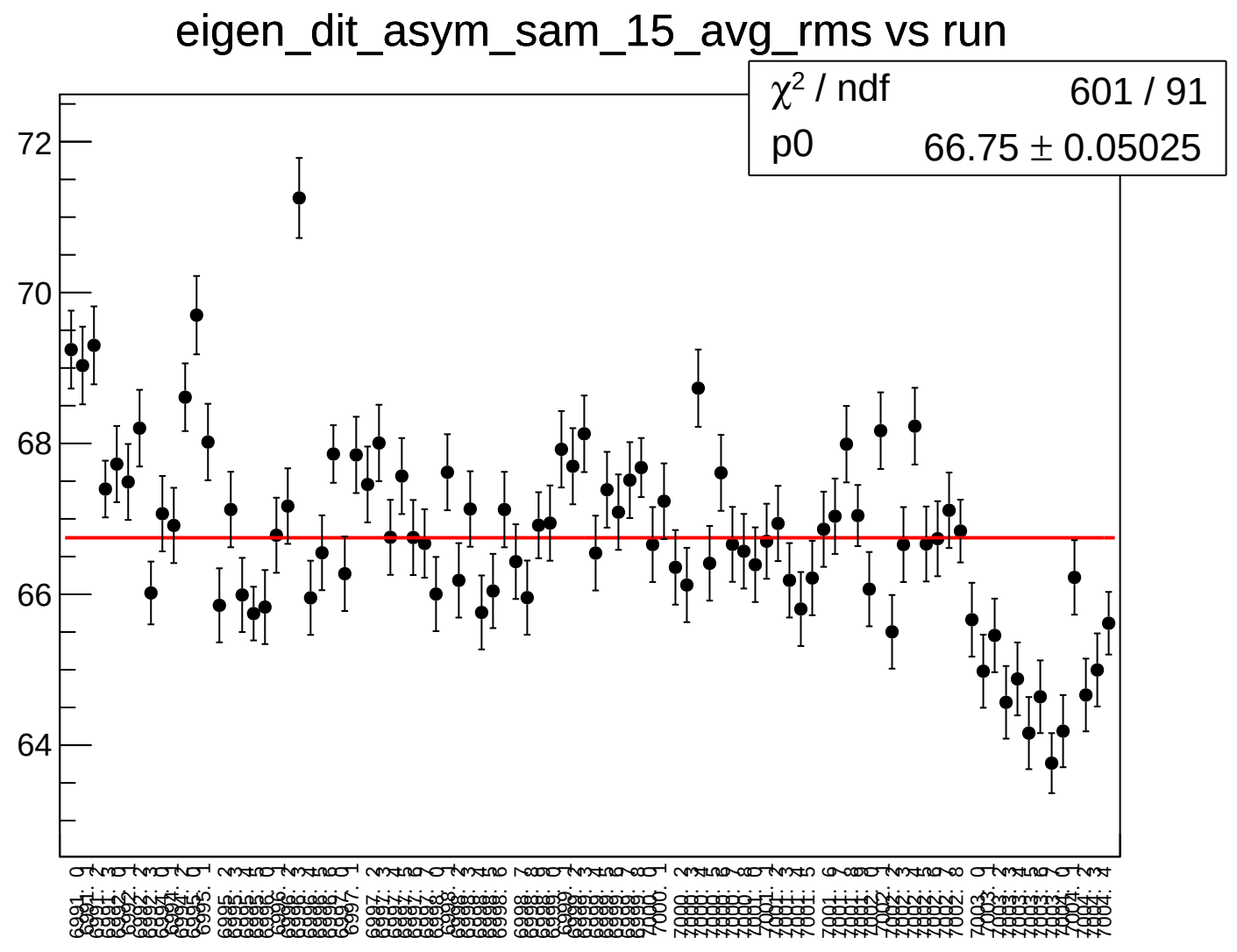

dit_asym_sam_15_avg_rms vs run
χ² / ndf 601 / 91
p0 66.75 ± 0.05025
72
70
68
66
64

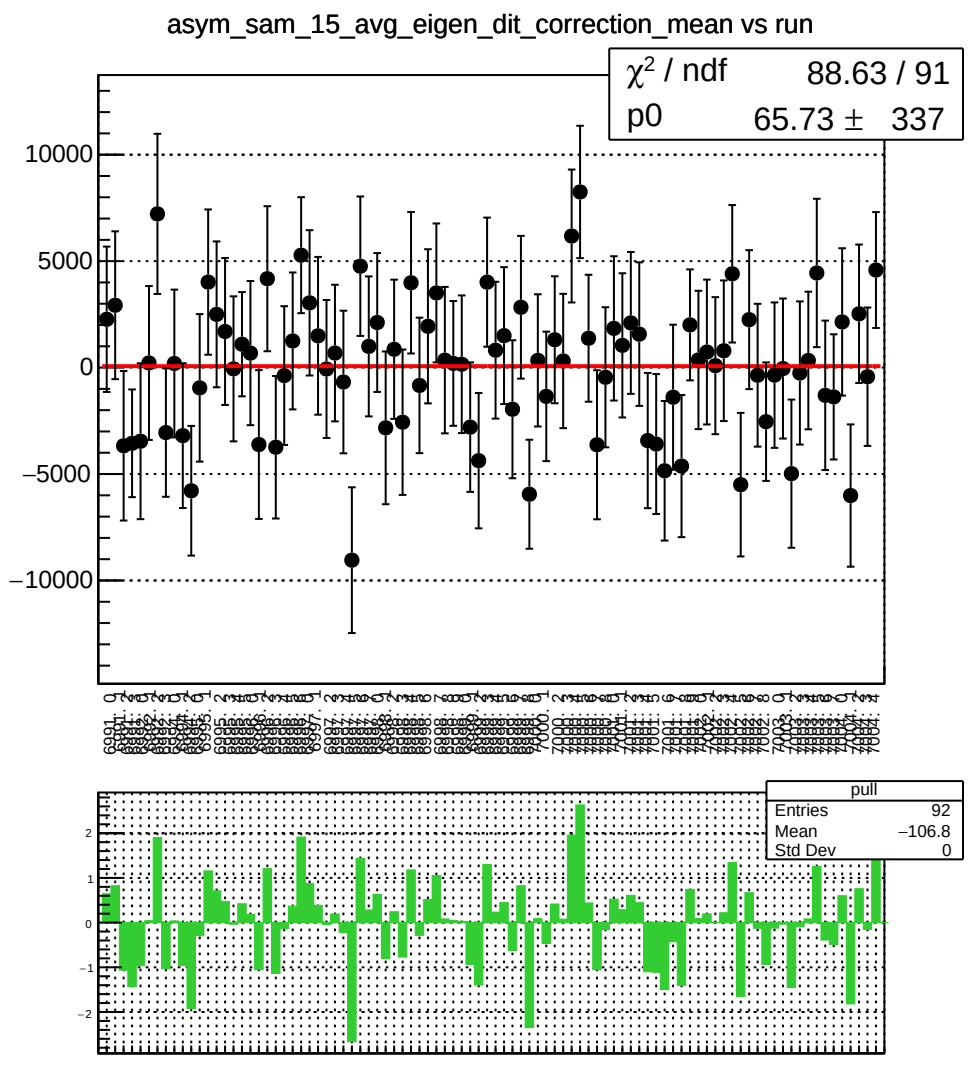

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 88.63 / 91
p0 65.73 ± 337
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −106.7
Std Dev 0
2
1
0
−1
−2

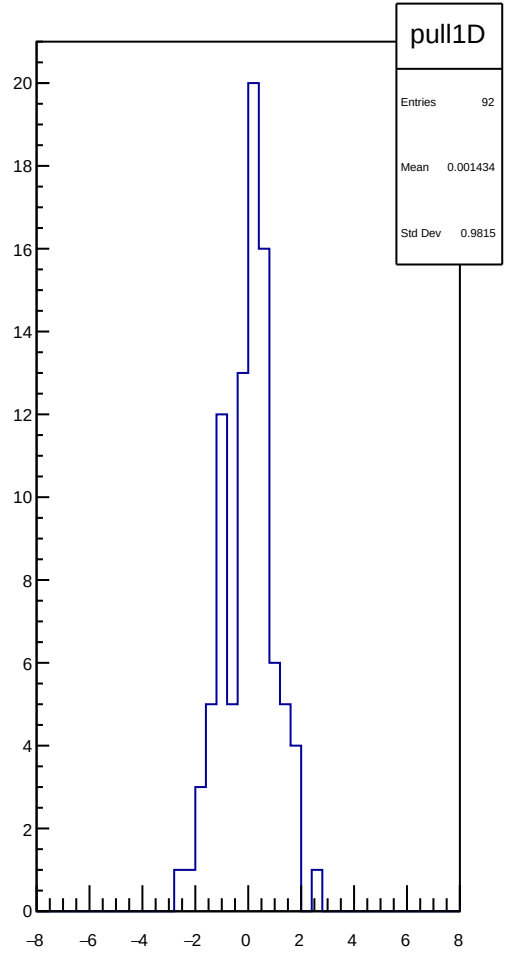

pull1D
Entries 92
Mean 0.001434
Std Dev 0.9815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

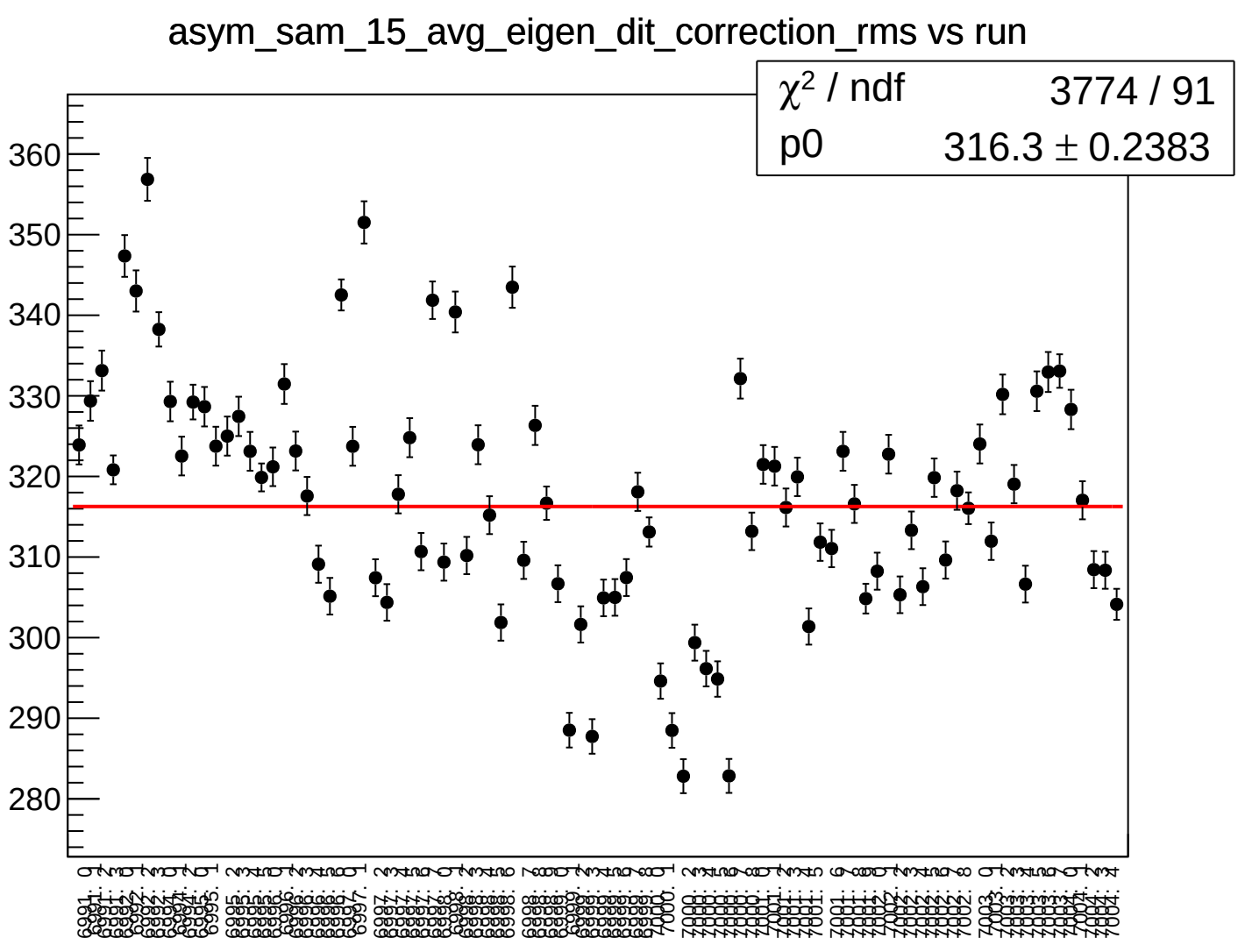

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3774 / 91
p0 316.3 ± 0.2383
360
350
340
330
320
310
300
290
280

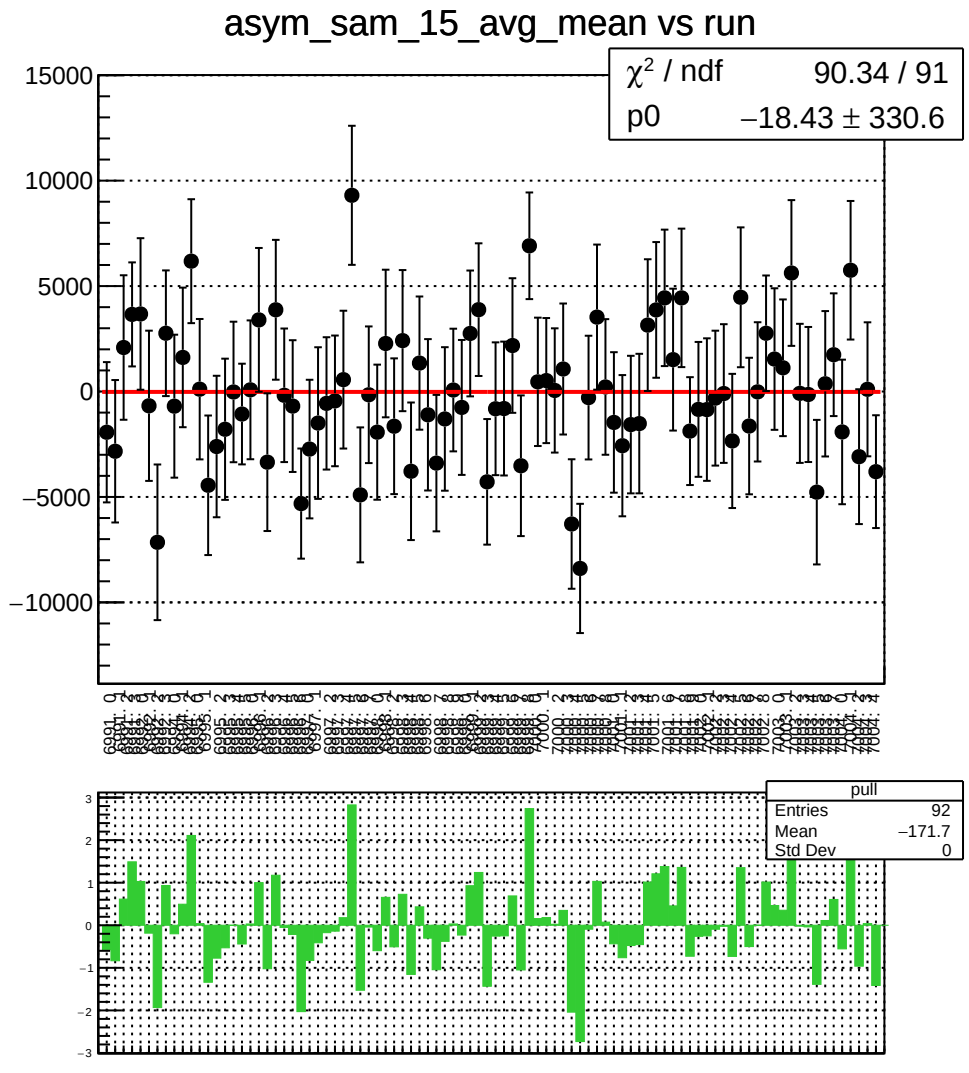

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 76.94 / 91
p0 41.2 ± 71.06
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −272.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01221
Std Dev 0.9144
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

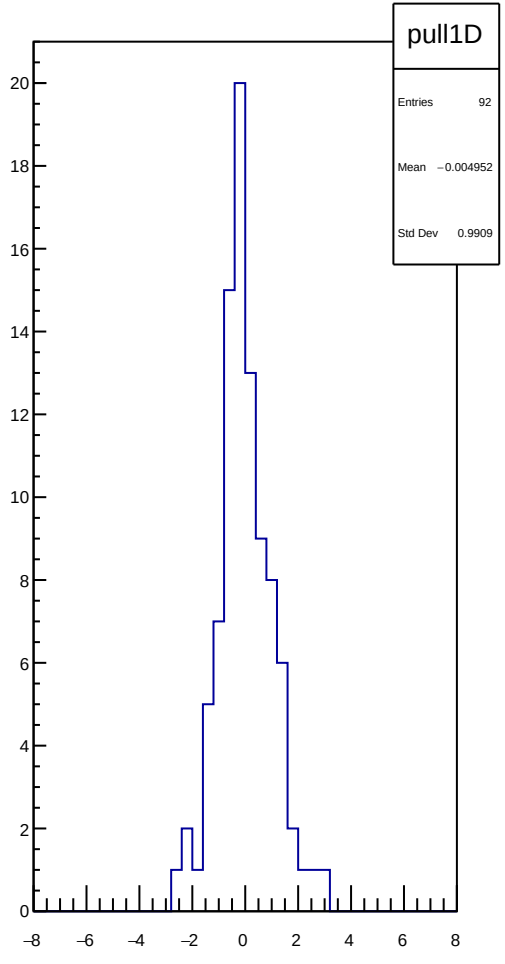

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 601 / 91
p0 66.75 ± 0.05025
72
70
68
66
64

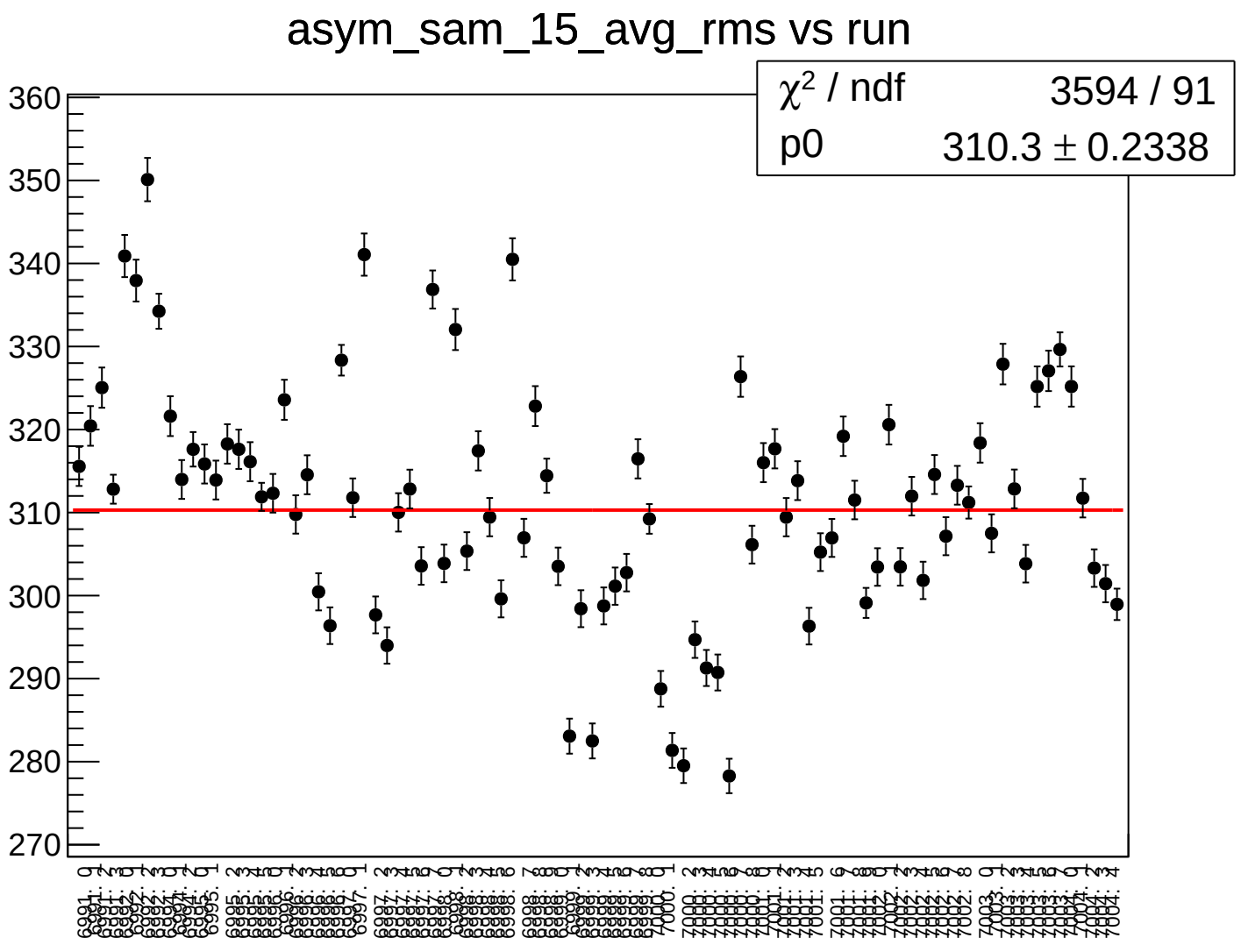

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.63 / 91
p0 65.73 ± 337
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −106.8
Std Dev 0
2
1
0
−1
−2

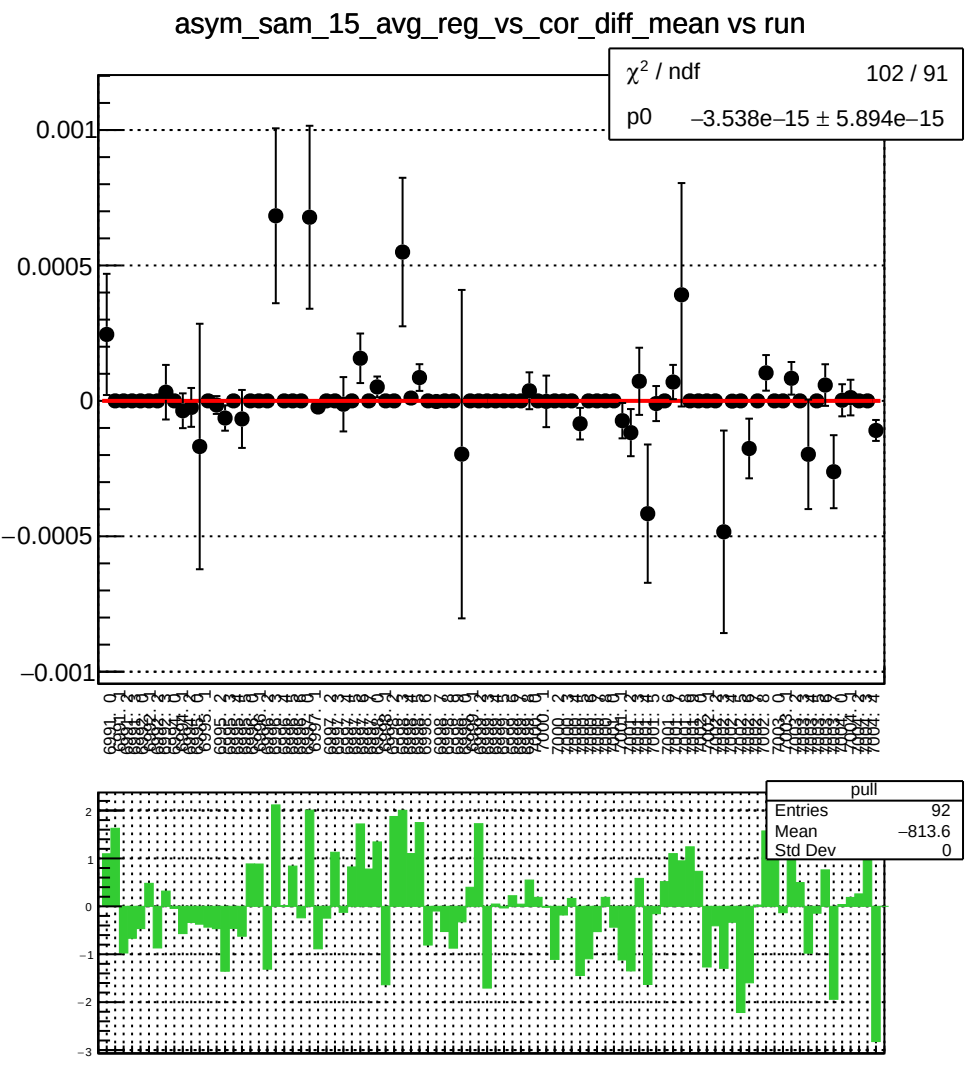

pull1D
Entries 92
Mean 0.001434
Std Dev 0.9815
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

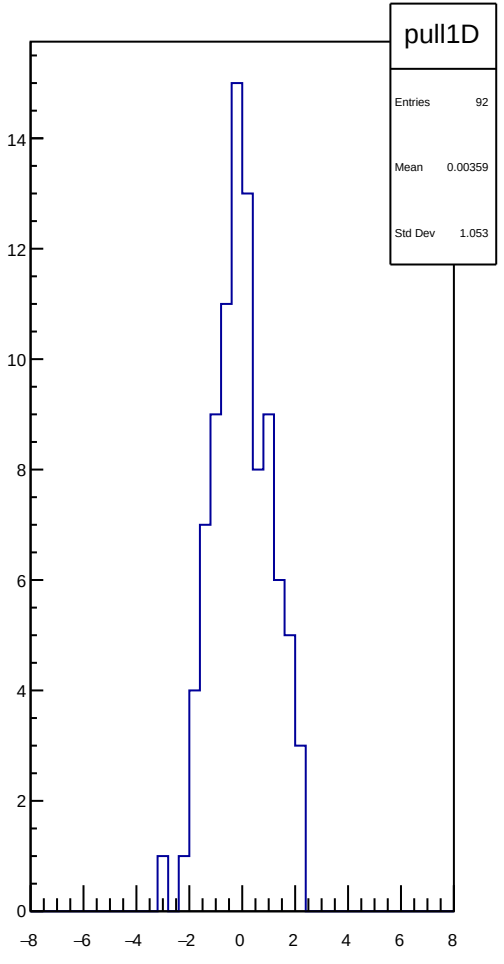

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3774 / 91
p0 316.3 ± 0.2383
360
350
340
330
320
310
300
290
280

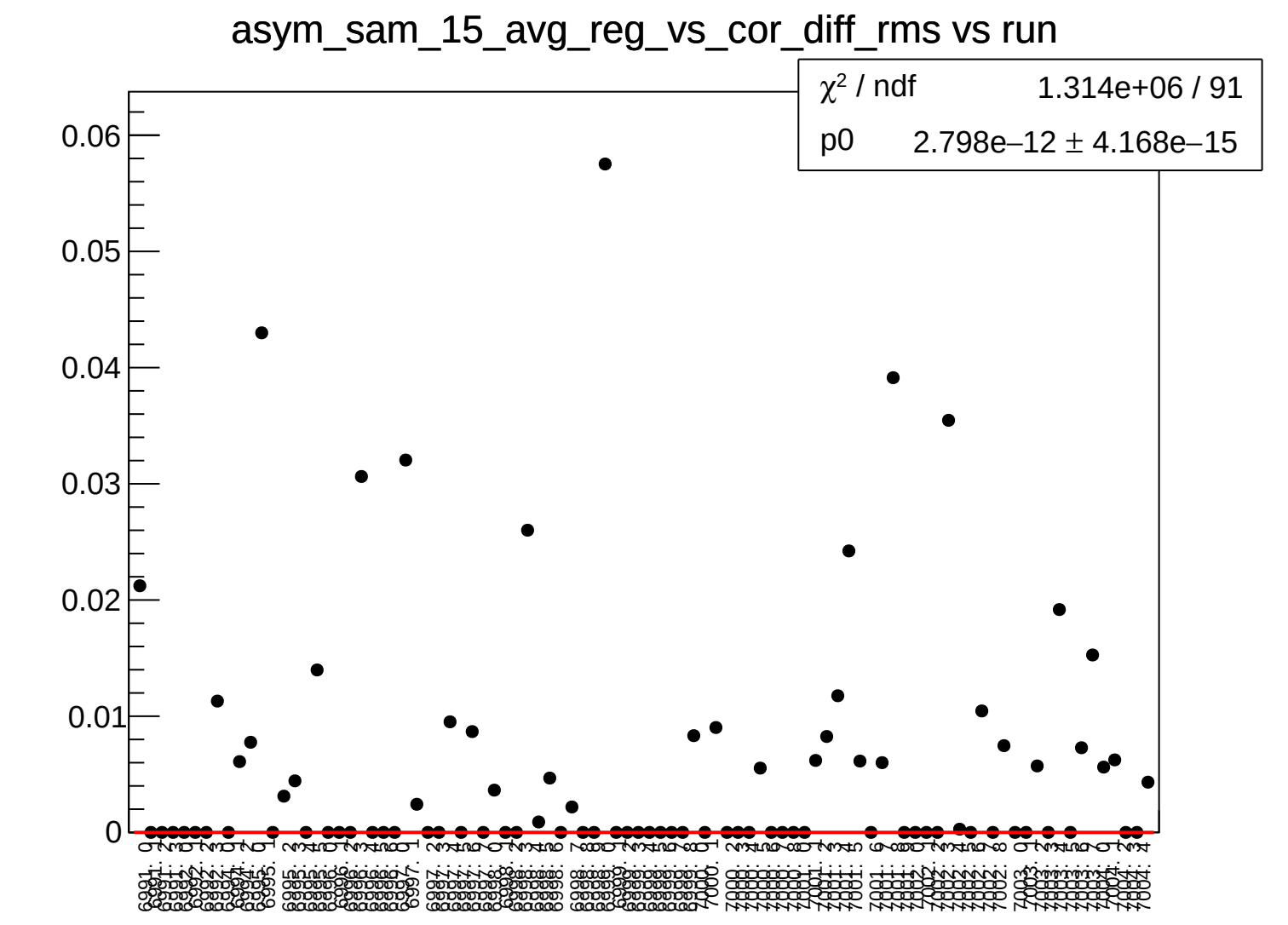

asym_sam_15_avg_mean vs run
χ² / ndf 90.34 / 91
p0 −18.43 ± 330.6
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −171.7
Std Dev 0
3
2
1
0
−1
−2
−3

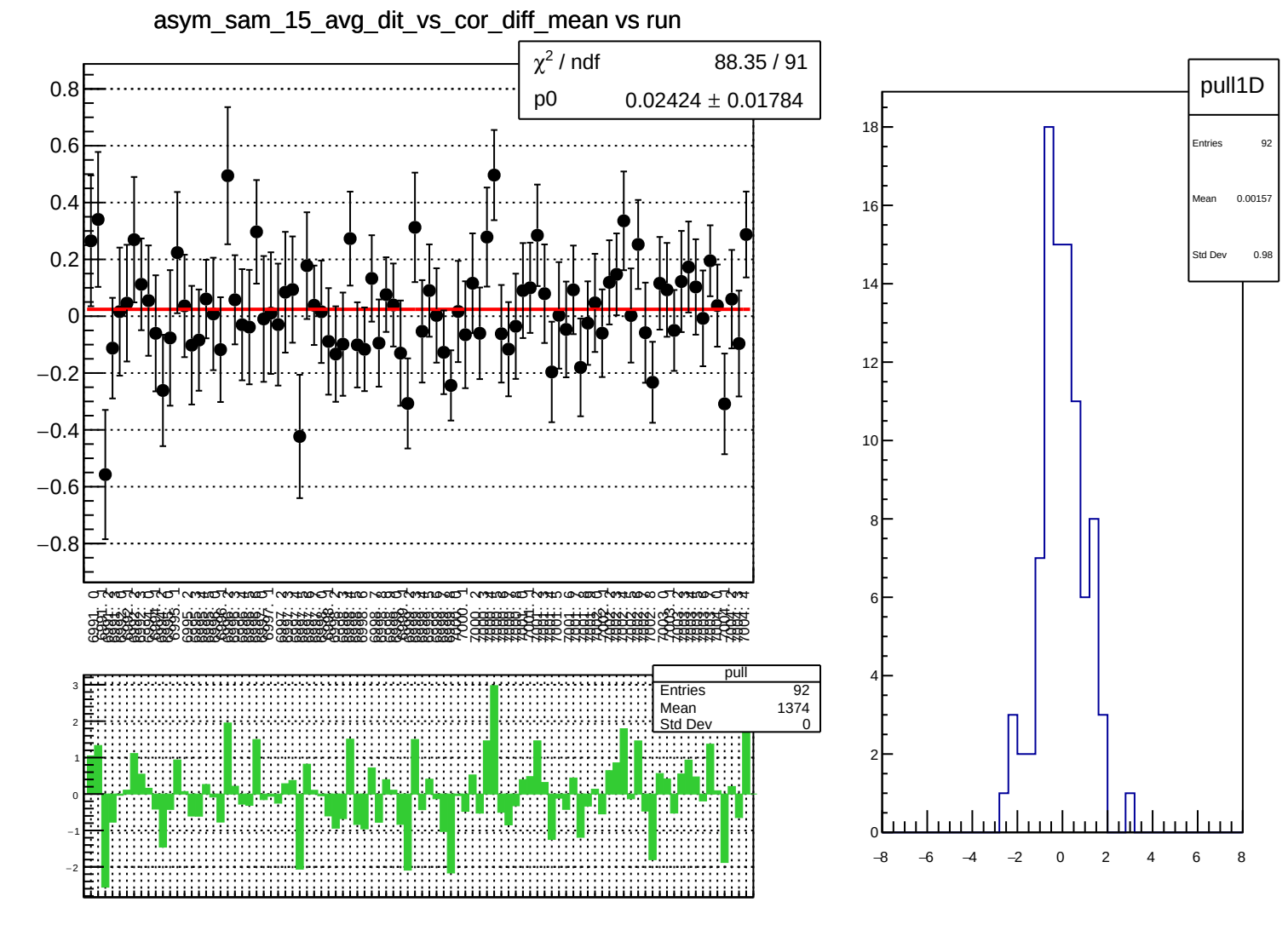

pull1D
Entries 92
Mean −0.004952
Std Dev 0.9909
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

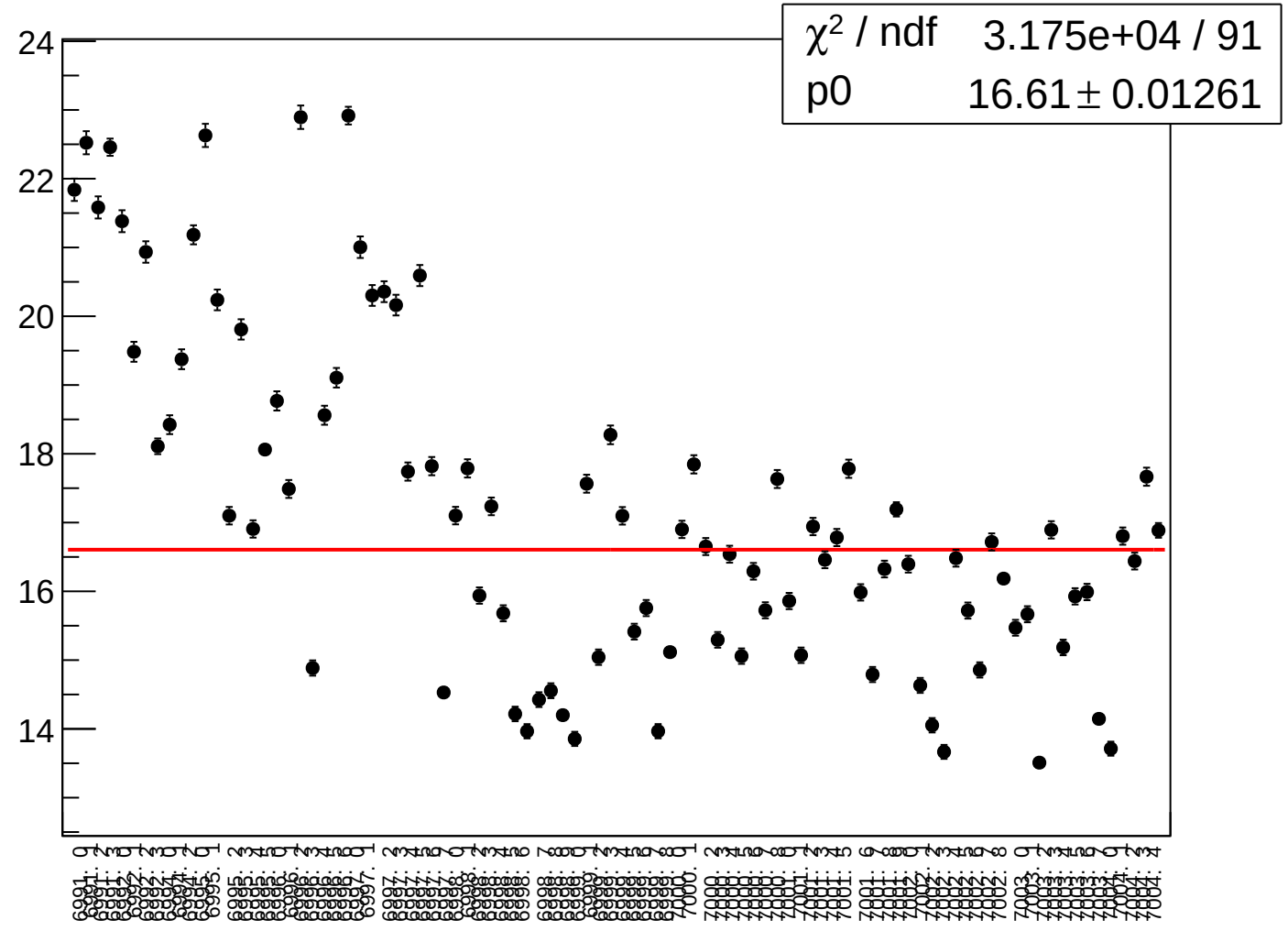

asym_sam_15_avg_rms vs run
χ² / ndf 3594 / 91
p0 310.3 ± 0.2338
360
350
340
330
320
310
300
290
280
270

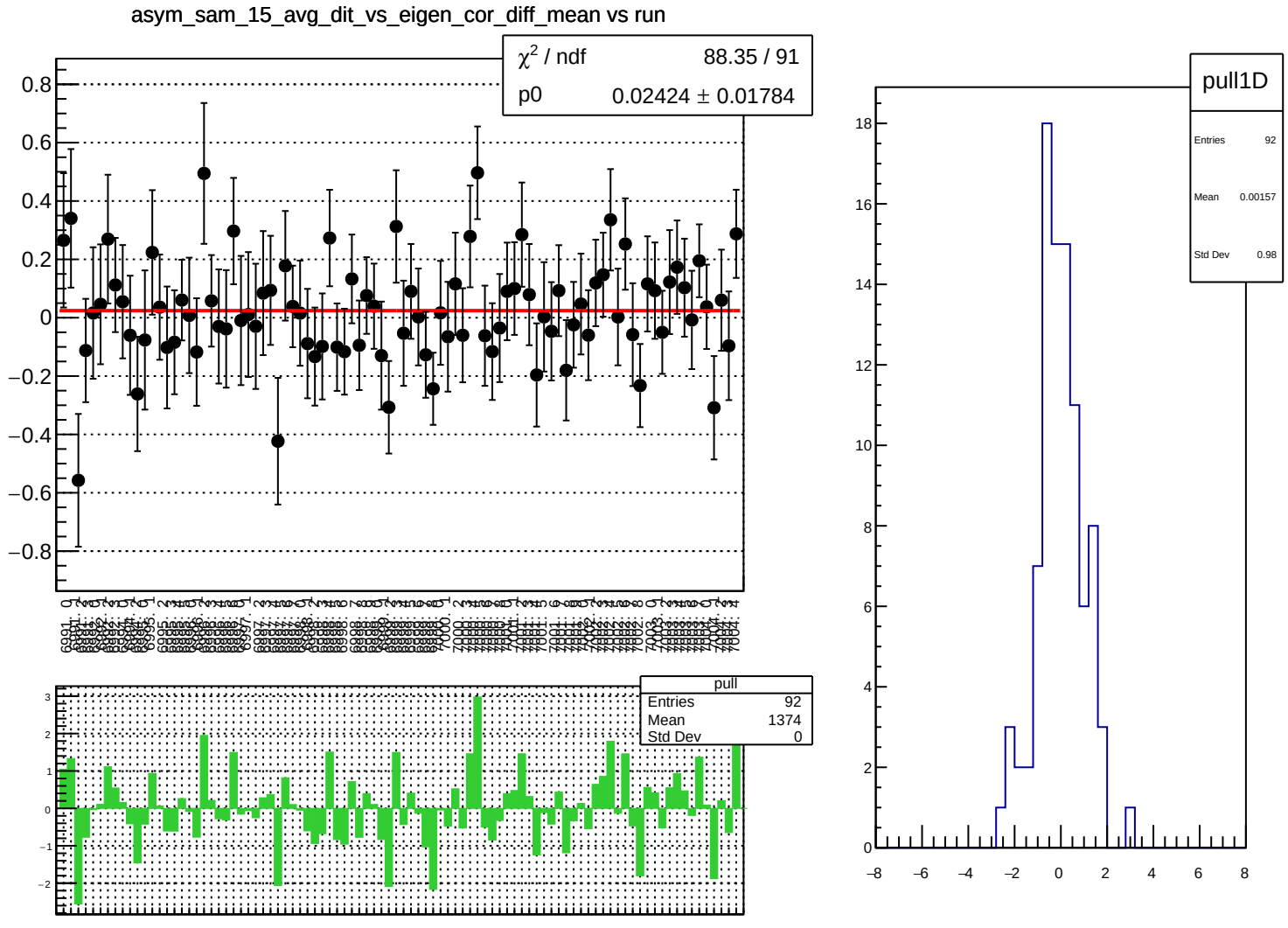

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102 / 91
p0 −3.538e−15 ± 5.894e−15
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −813.6
Std Dev 0
2
1
0
−1
−2
−3

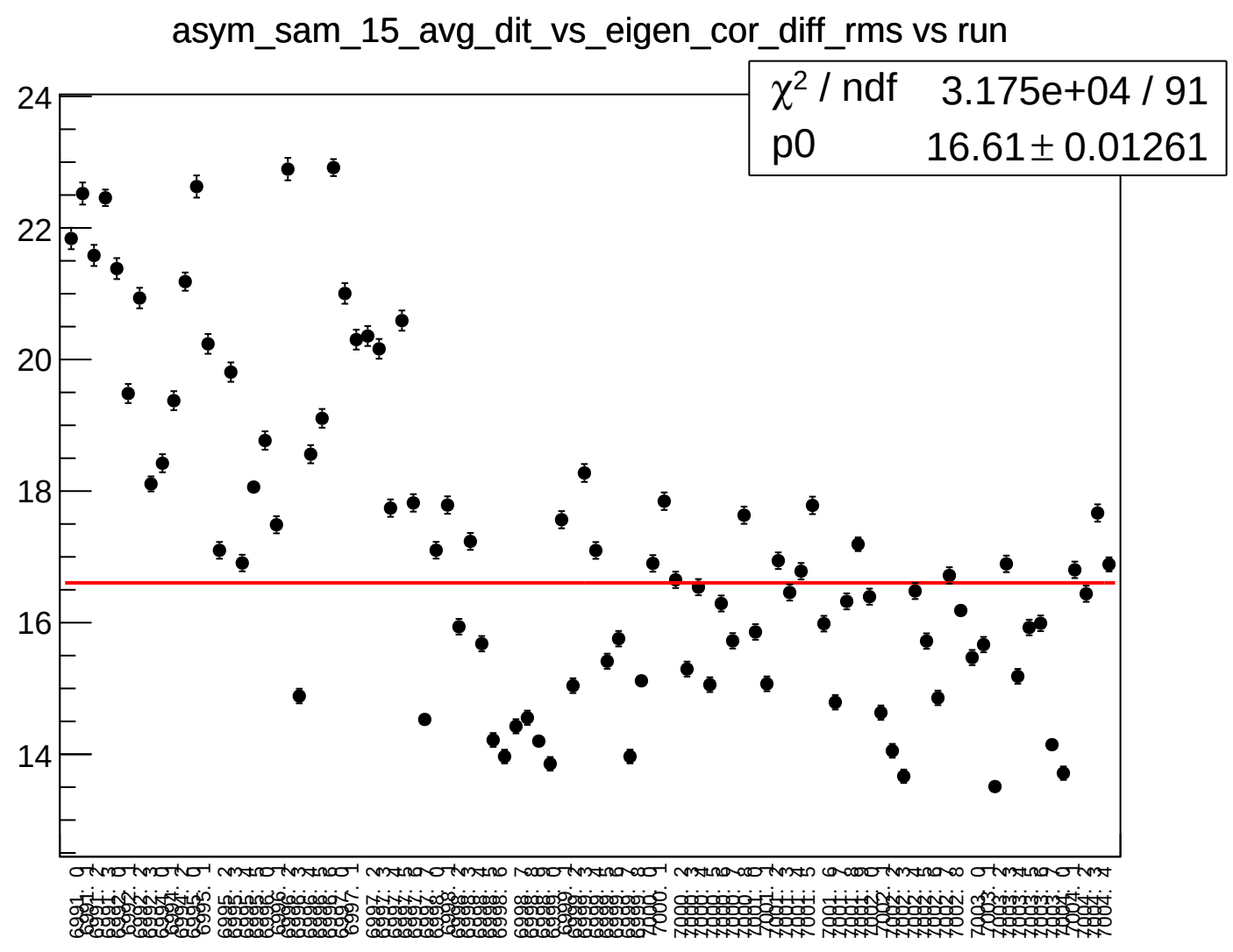

pull1D
Entries 92
Mean 0.00359
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

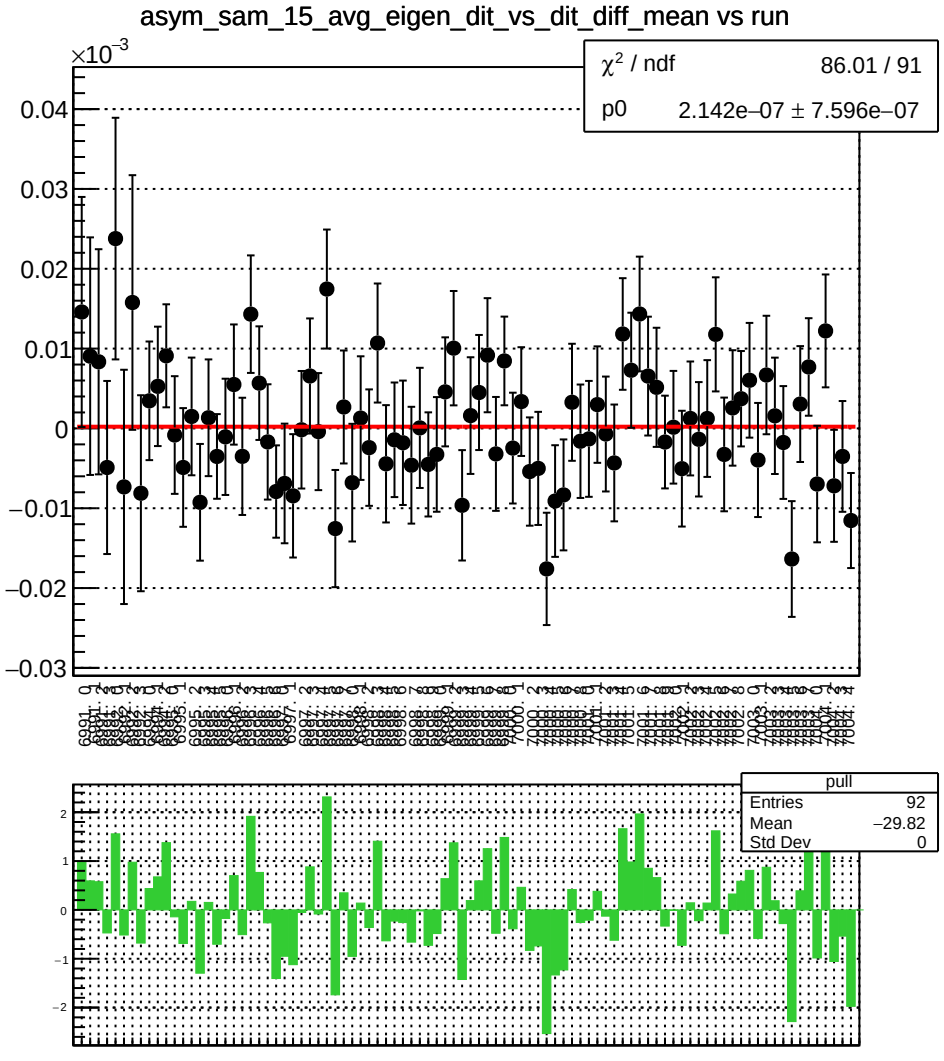

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.314e+06 / 91
p0 2.798e−12 ± 4.168e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

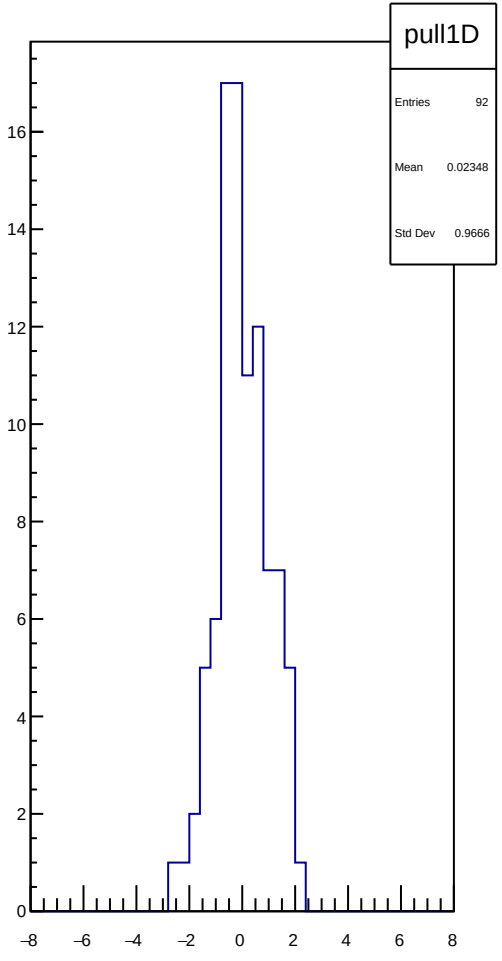

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.35 / 91
p0 0.02424 ± 0.01784
pull
Entries 92
Mean 1374
Std Dev 0
pull1D
Entries 92
Mean 0.00157
Std Dev 0.98

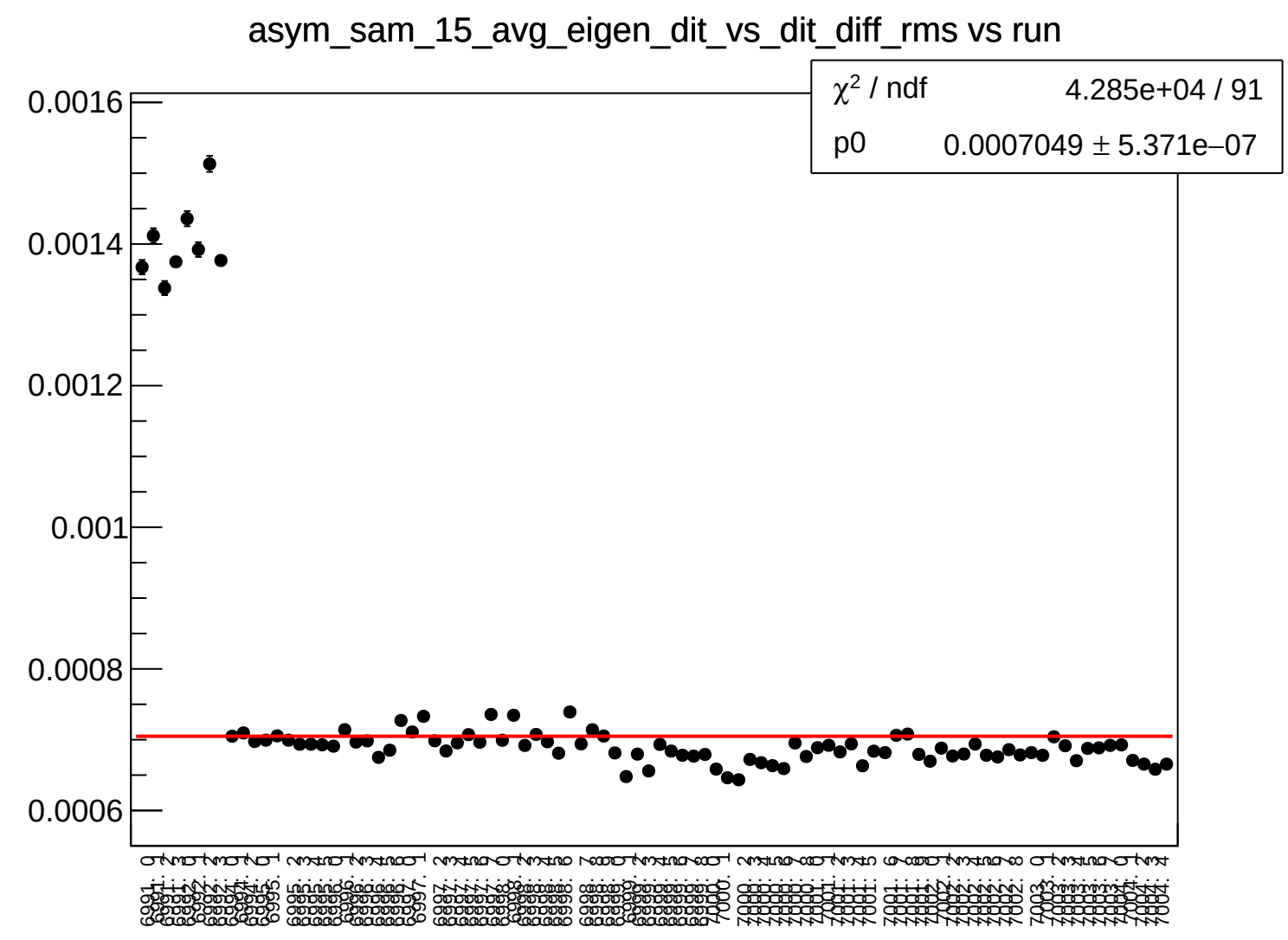

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.175e+04 / 91
p0 16.61 ± 0.01261
24
22
20
18
16
14

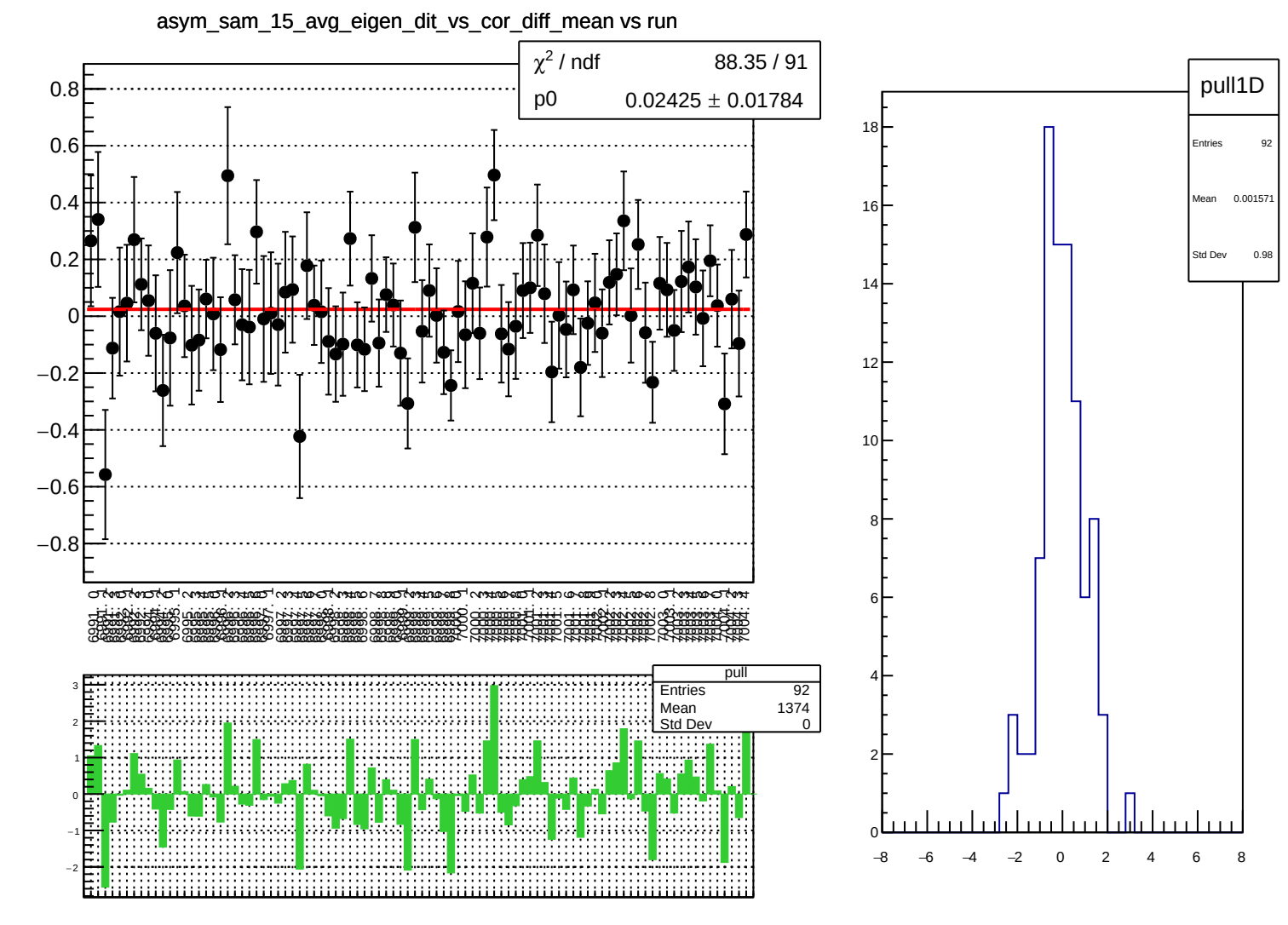

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.35 / 91
p0 0.02424 ± 0.01784
pull
Entries 92
Mean 1374
Std Dev 0
pull1D
Entries 92
Mean 0.00157
Std Dev 0.98

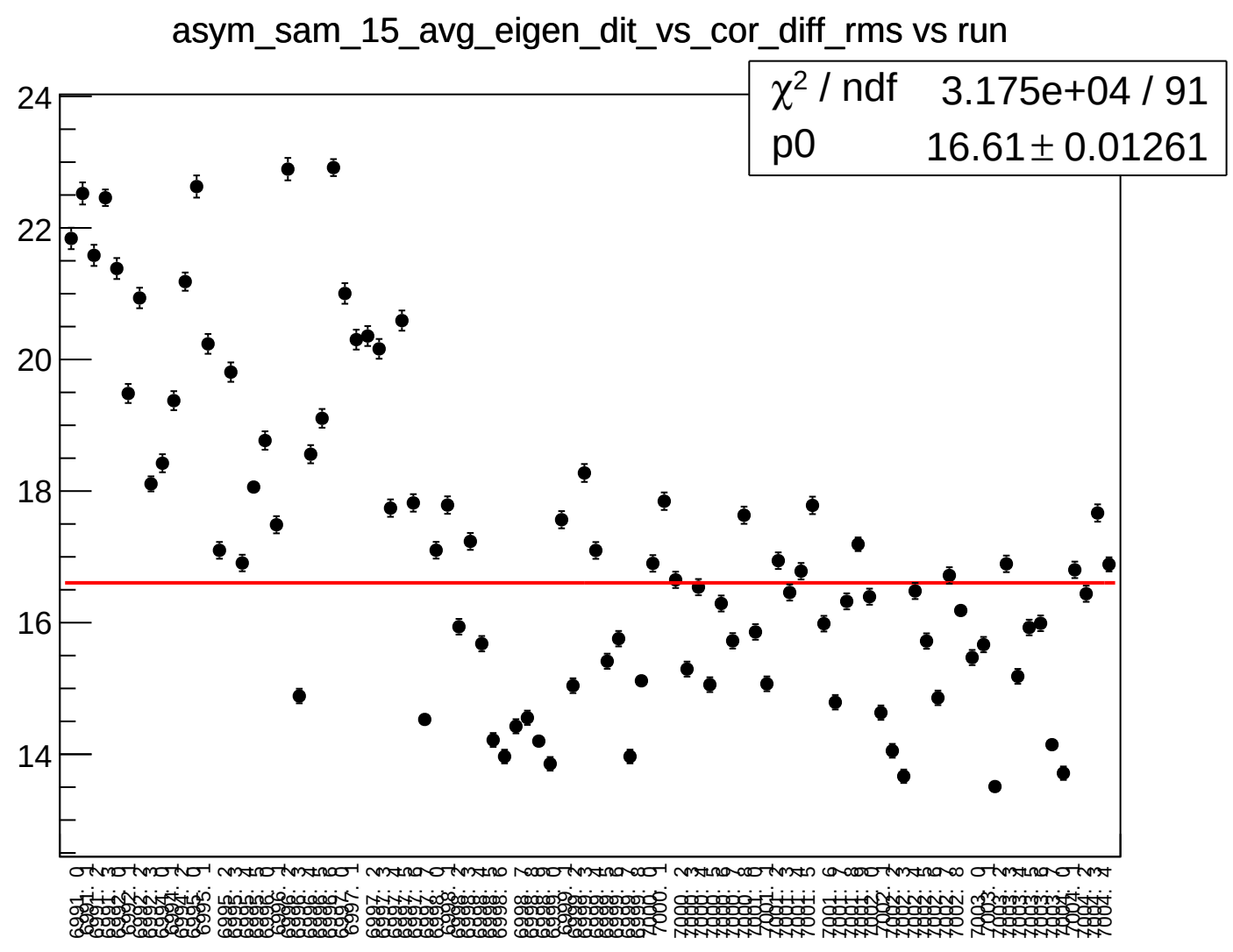

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.175e+04 / 91
p0 16.61 ± 0.01261
24
22
20
18
16
14

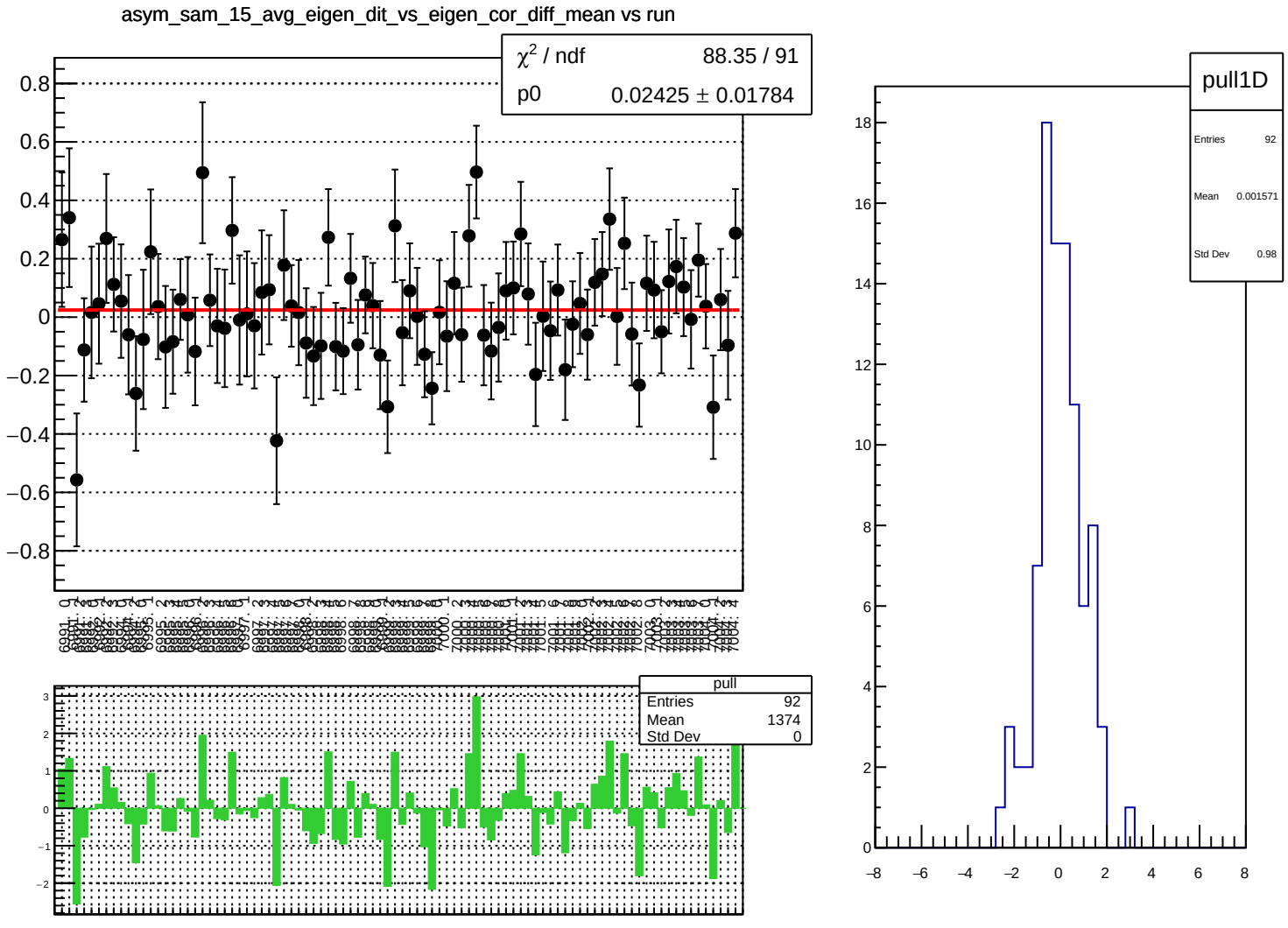

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.01 / 91
p0 2.142e−07 ± 7.596e−07
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean −29.82
Std Dev 0
2
1
0
−1
−2

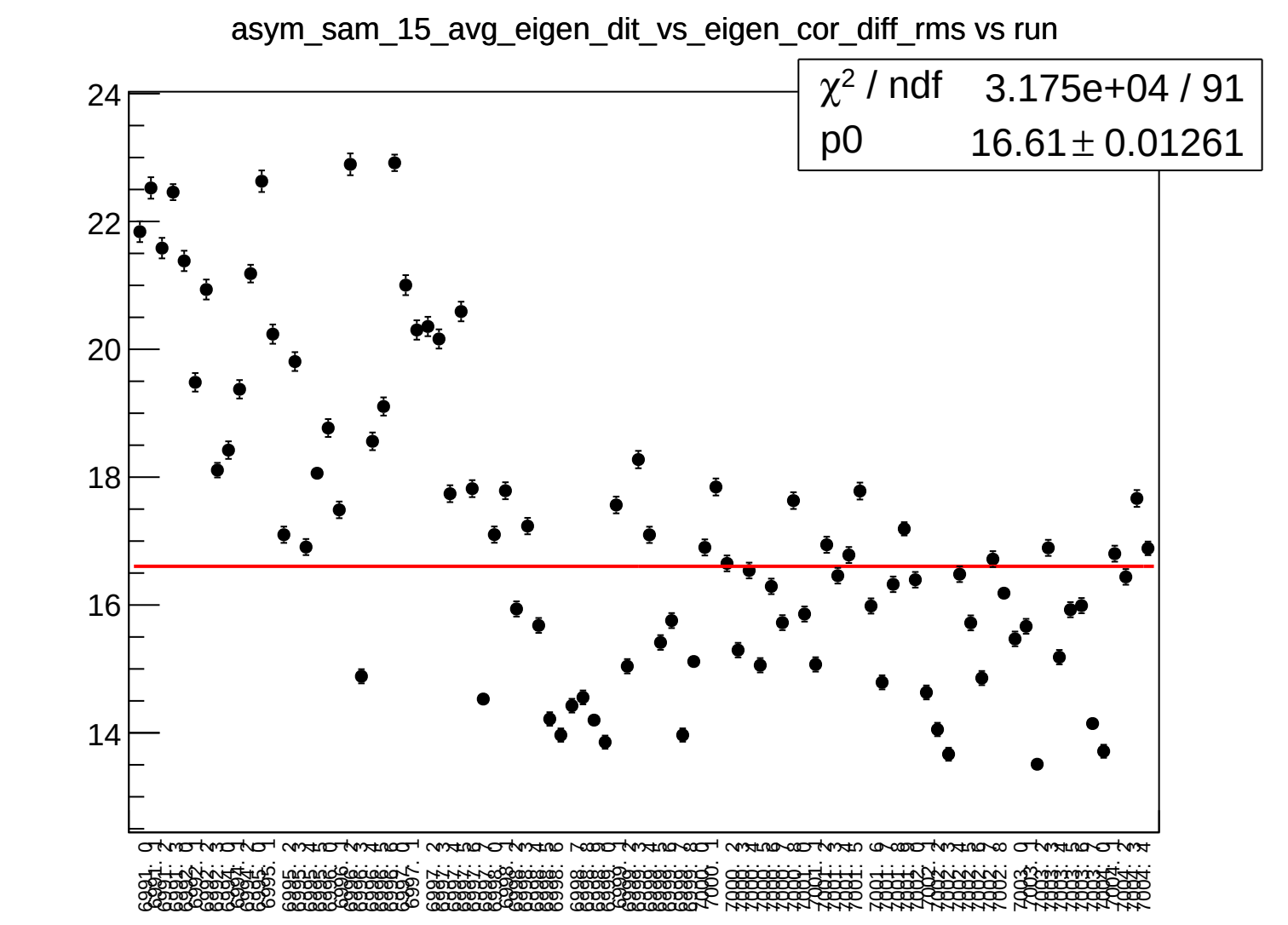

pull1D
Entries 92
Mean 0.02348
Std Dev 0.9666
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

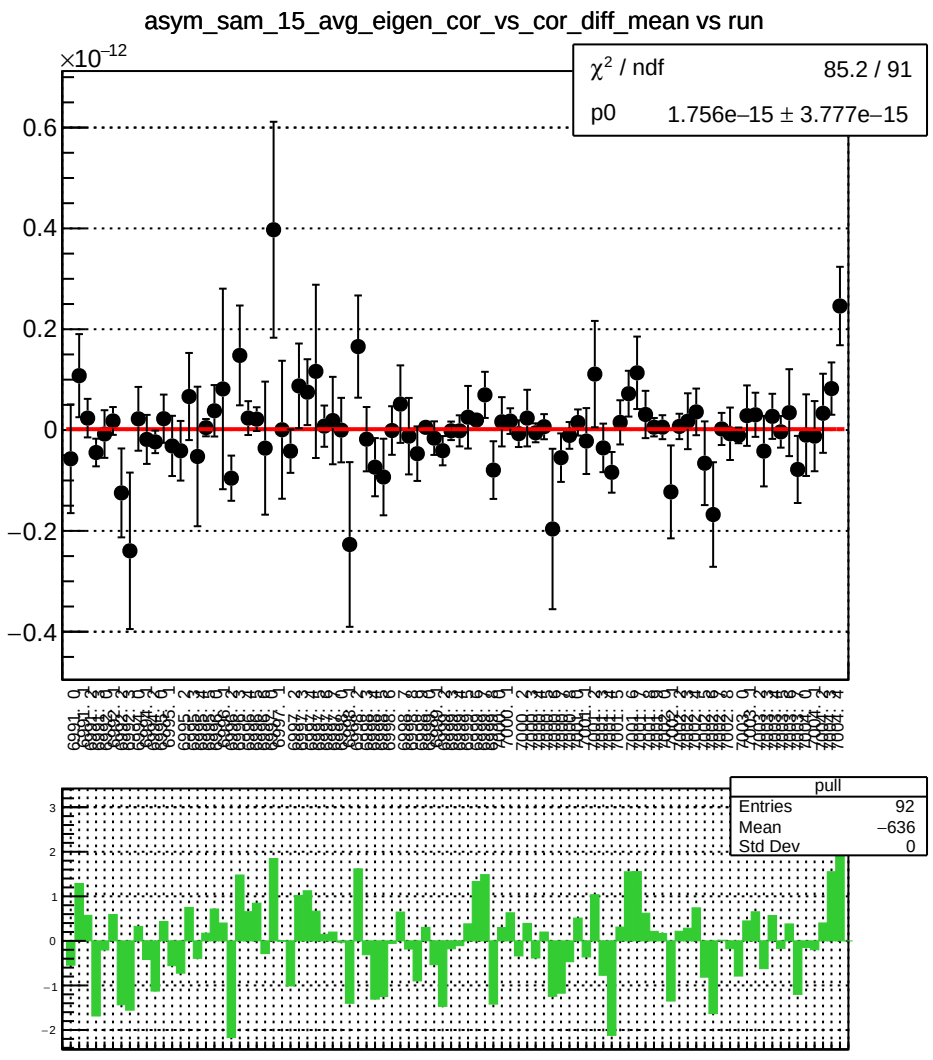

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.285e+04 / 91
p0 0.0007049 ± 5.371e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

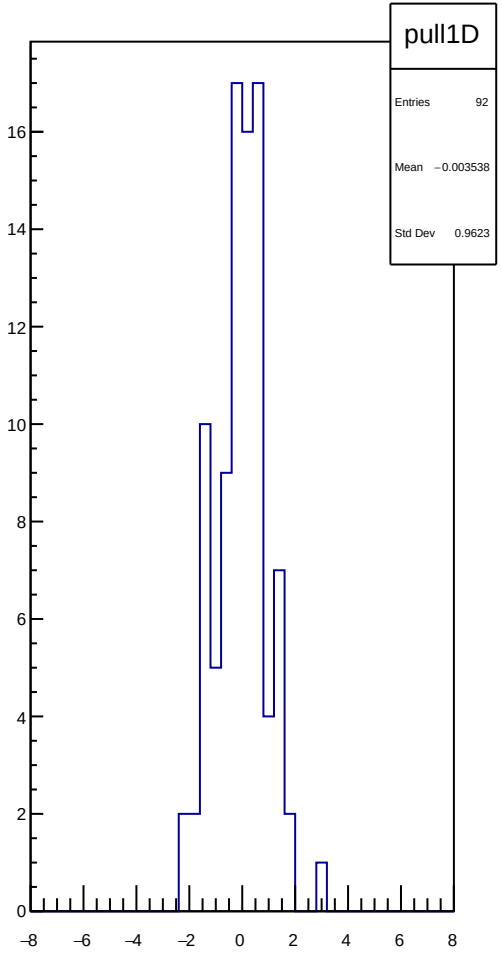

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.35 / 91
p0 0.02425 ± 0.01784
pull
Entries 92
Mean 1374
Std Dev 0
pull1D
Entries 92
Mean 0.001571
Std Dev 0.98

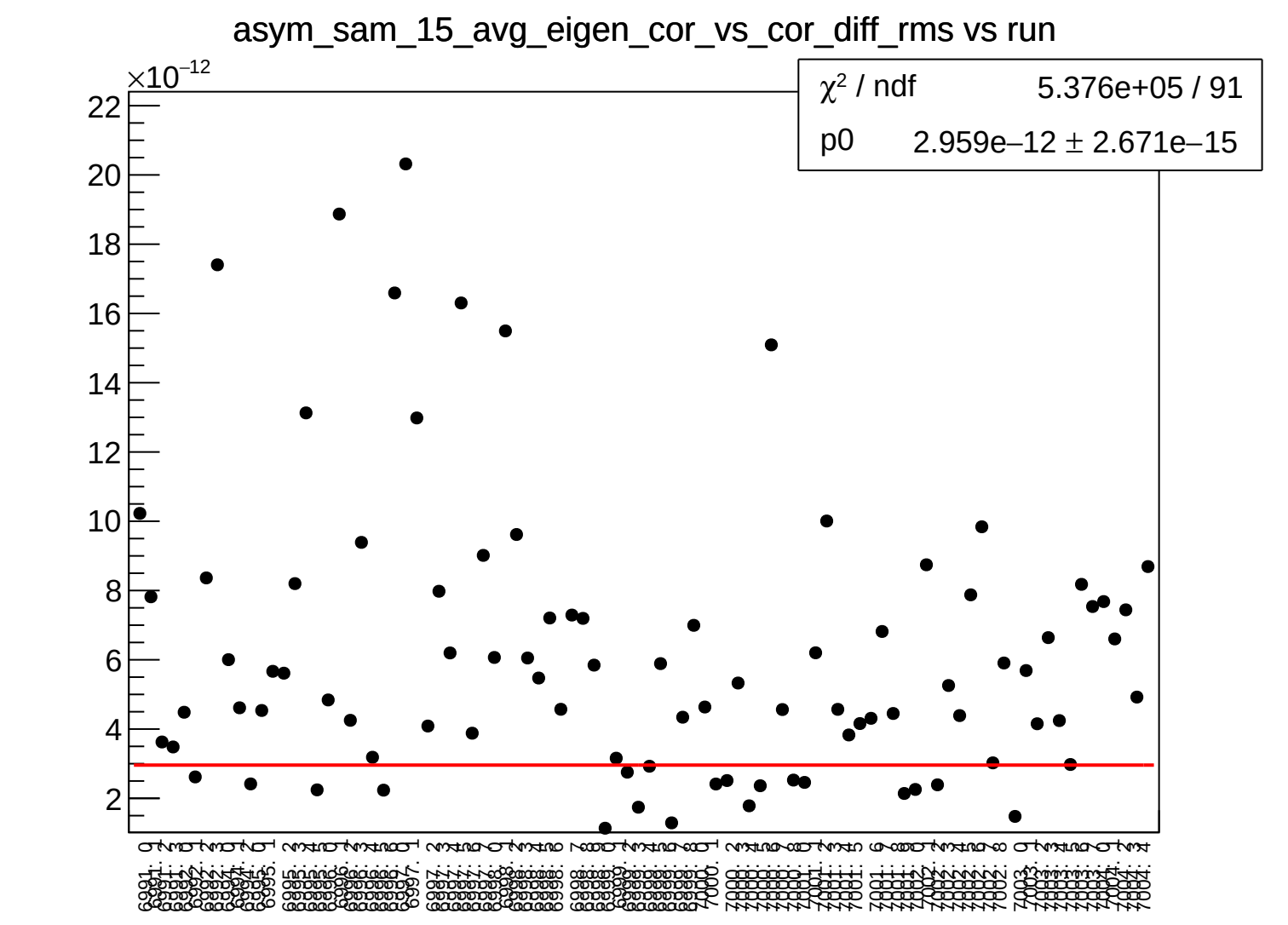

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.175e+04 / 91
p0 16.61 ± 0.01261
24
22
20
18
16
14

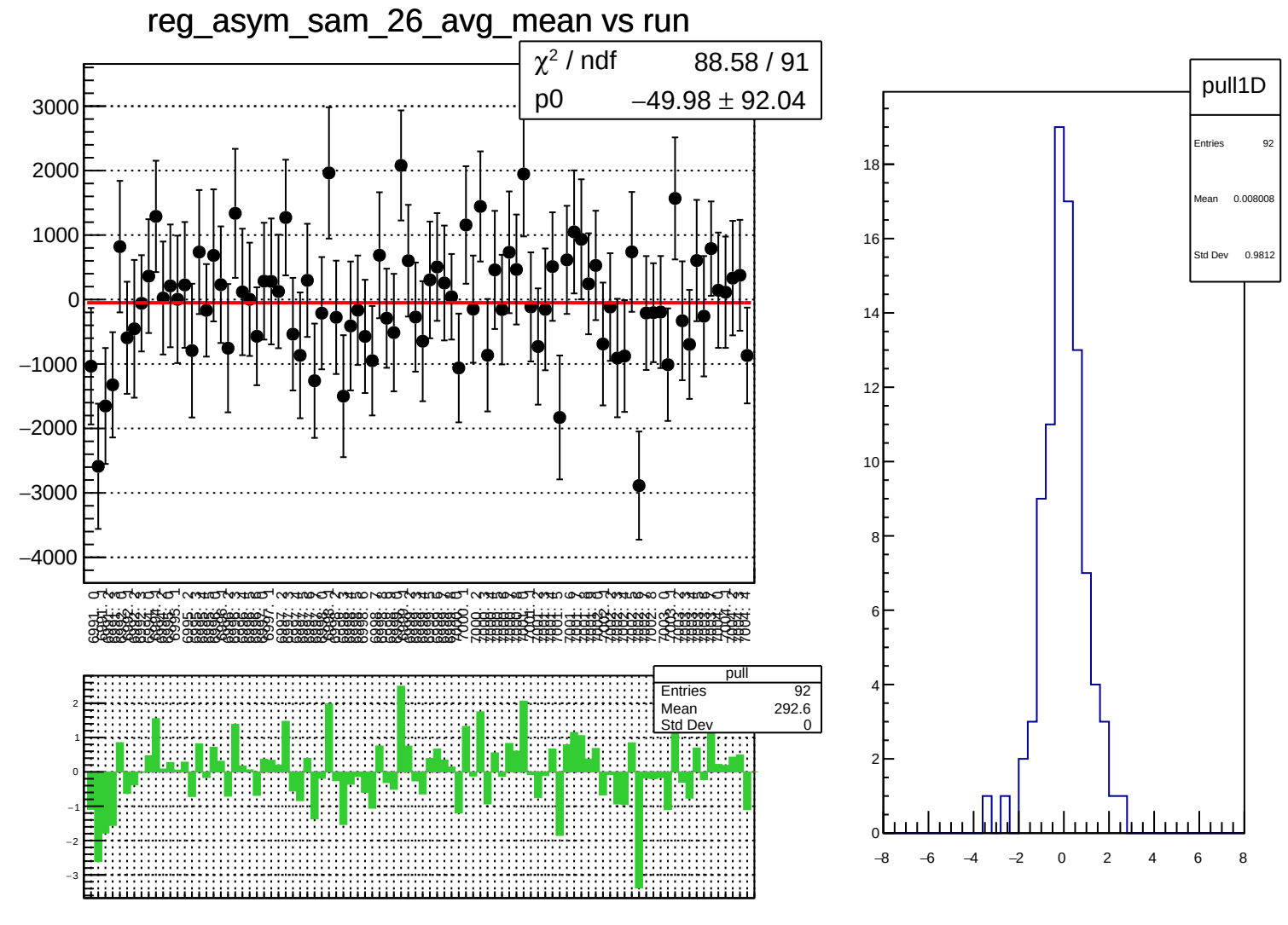

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.35 / 91
p0 0.02425 ± 0.01784
pull
Entries 92
Mean 1374
Std Dev 0
pull1D
Entries 92
Mean 0.001571
Std Dev 0.98

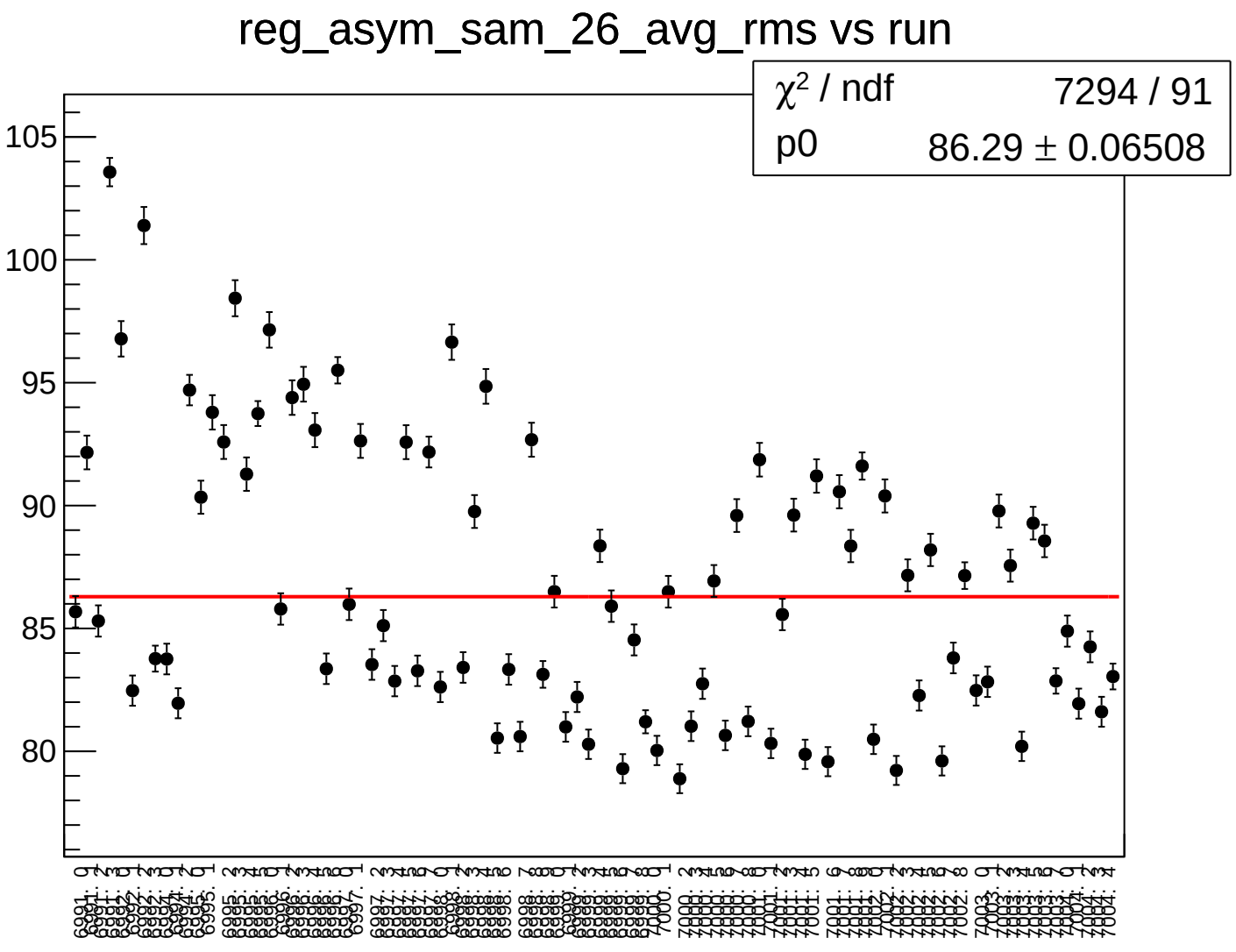

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.175e+04 / 91
p0 16.61 ± 0.01261
24
22
20
18
16
14

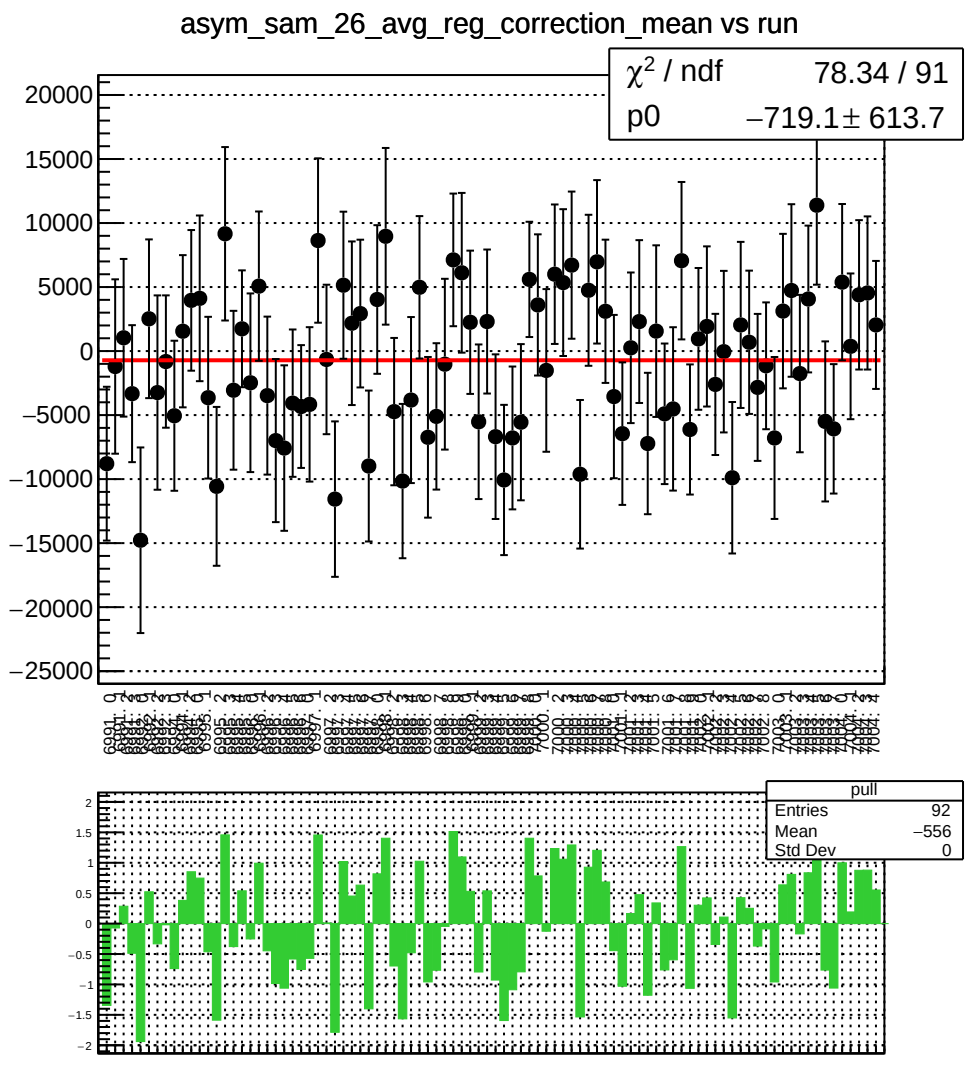

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.2 / 91
p0 1.756e−15 ± 3.777e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean −636
Std Dev 0
3
2
1
0
−1
−2

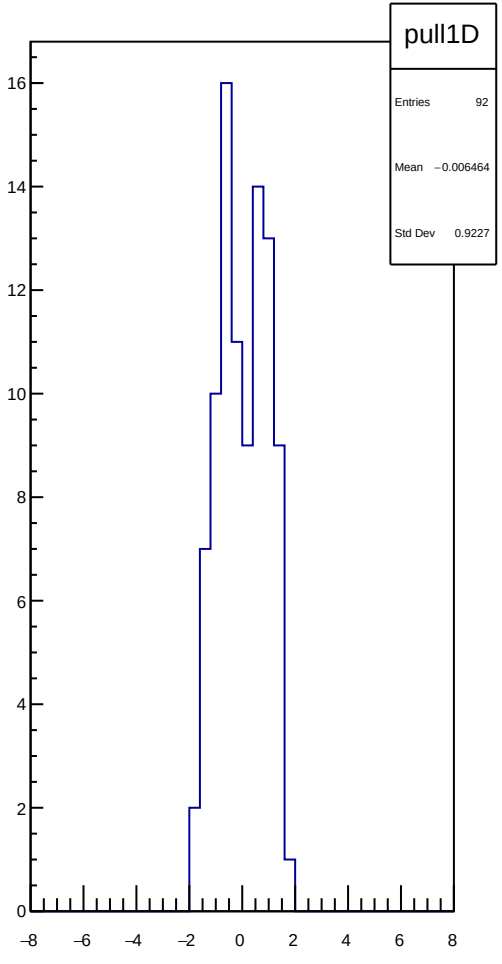

pull1D
Entries 92
Mean −0.003538
Std Dev 0.9623
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

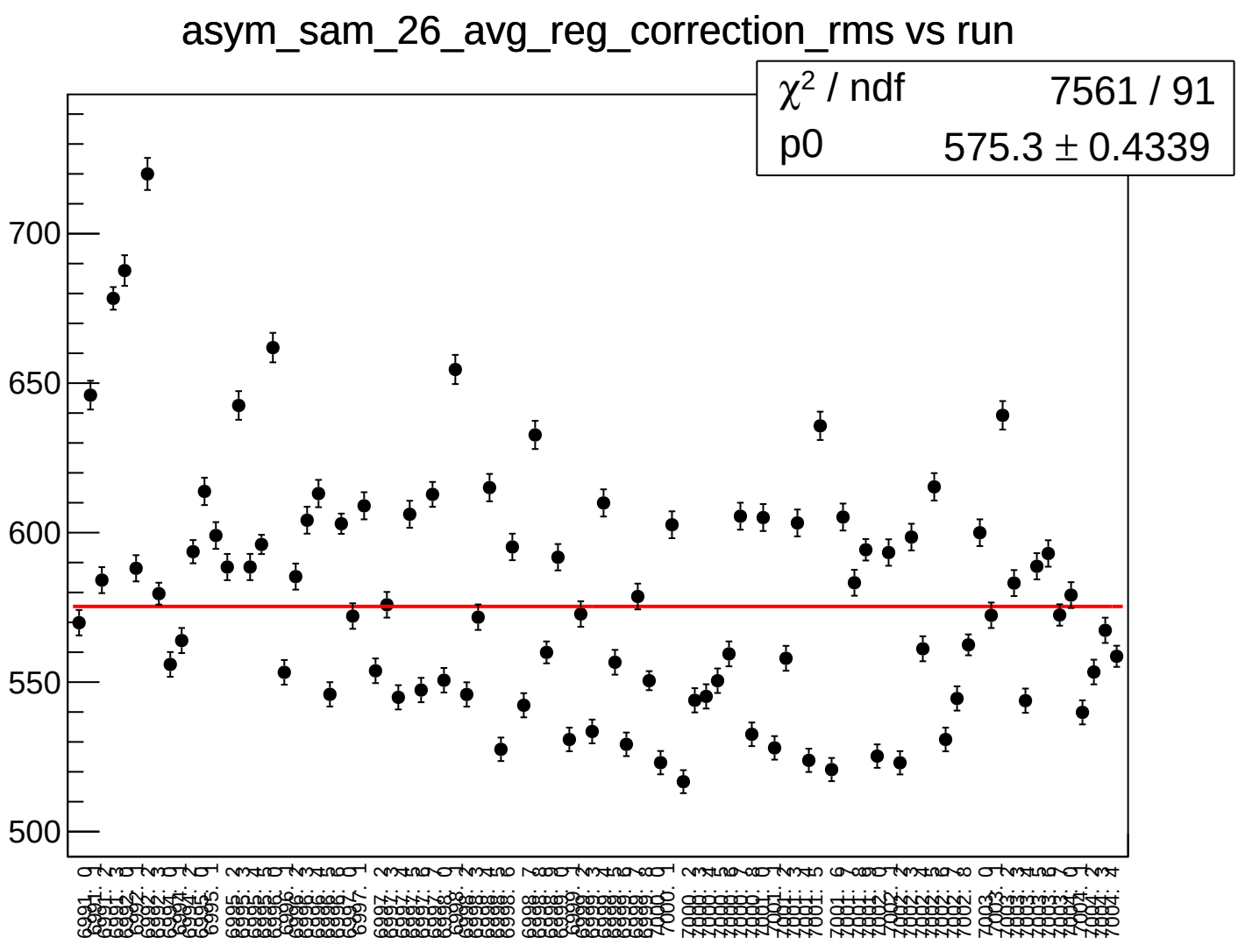

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.376e+05 / 91
p0 2.959e−12 ± 2.671e−15
22
20
18
16
14
12
10
8
6
4
2

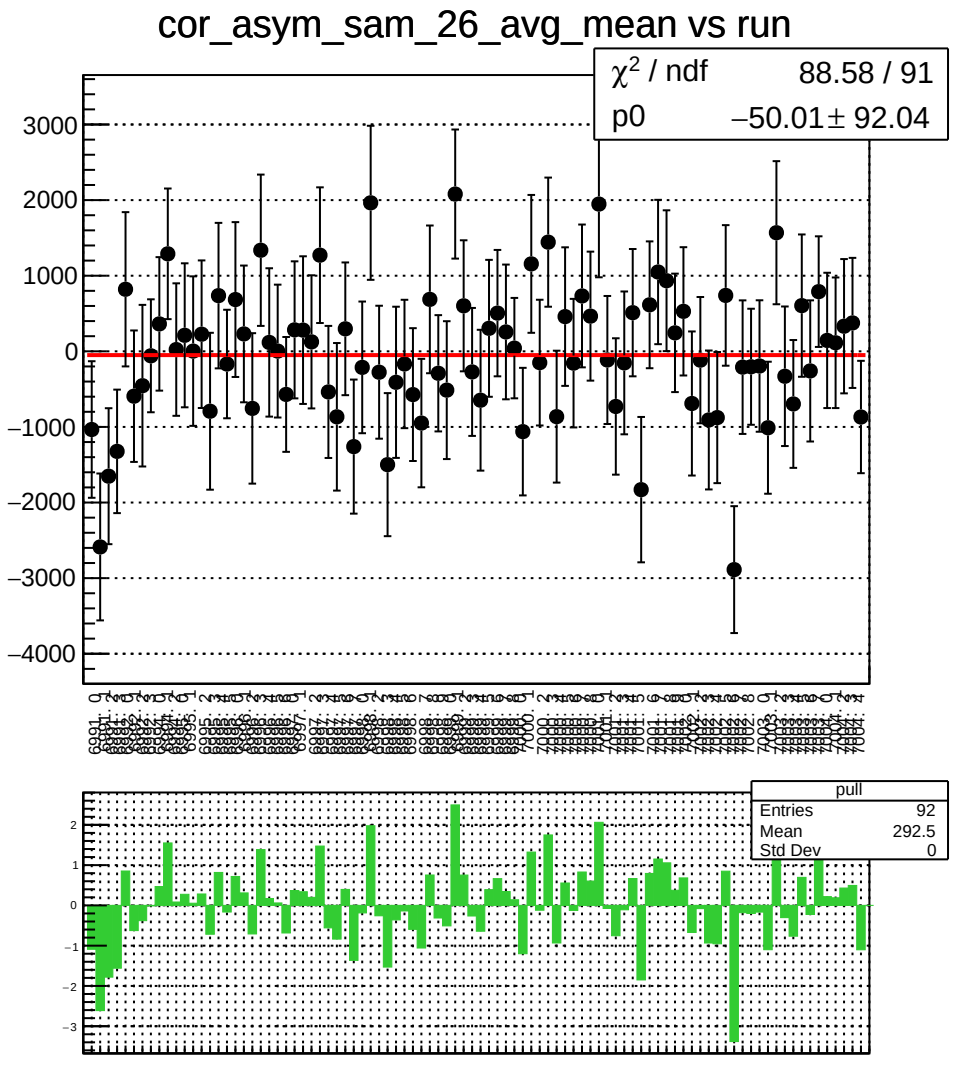

reg_asym_sam_26_avg_mean vs run
χ² / ndf 88.58 / 91
p0 −49.98 ± 92.04
pull
Entries 92
Mean 292.6
Std Dev 0
pull1D
Entries 92
Mean 0.008008
Std Dev 0.9812

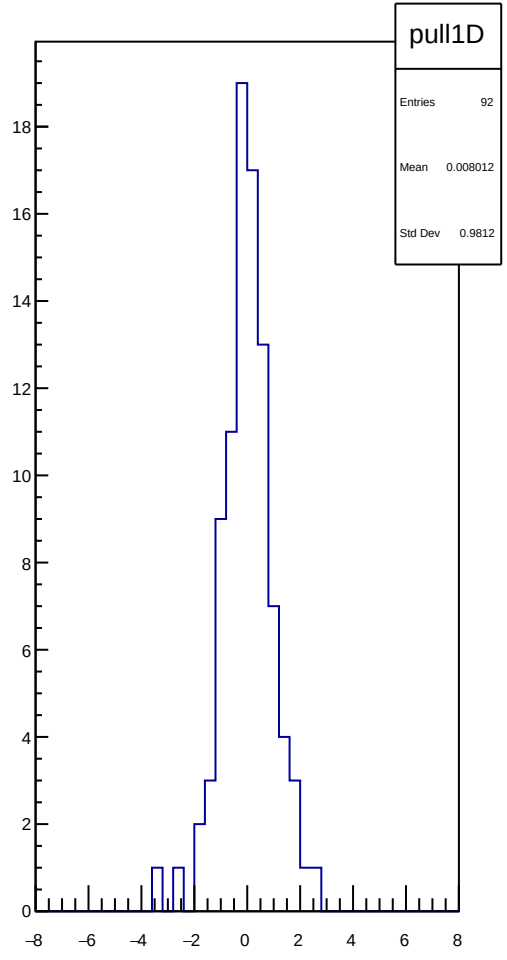

reg_asym_sam_26_avg_rms vs run
χ² / ndf 7294 / 91
p0 86.29 ± 0.06508
105
100
95
90
85
80

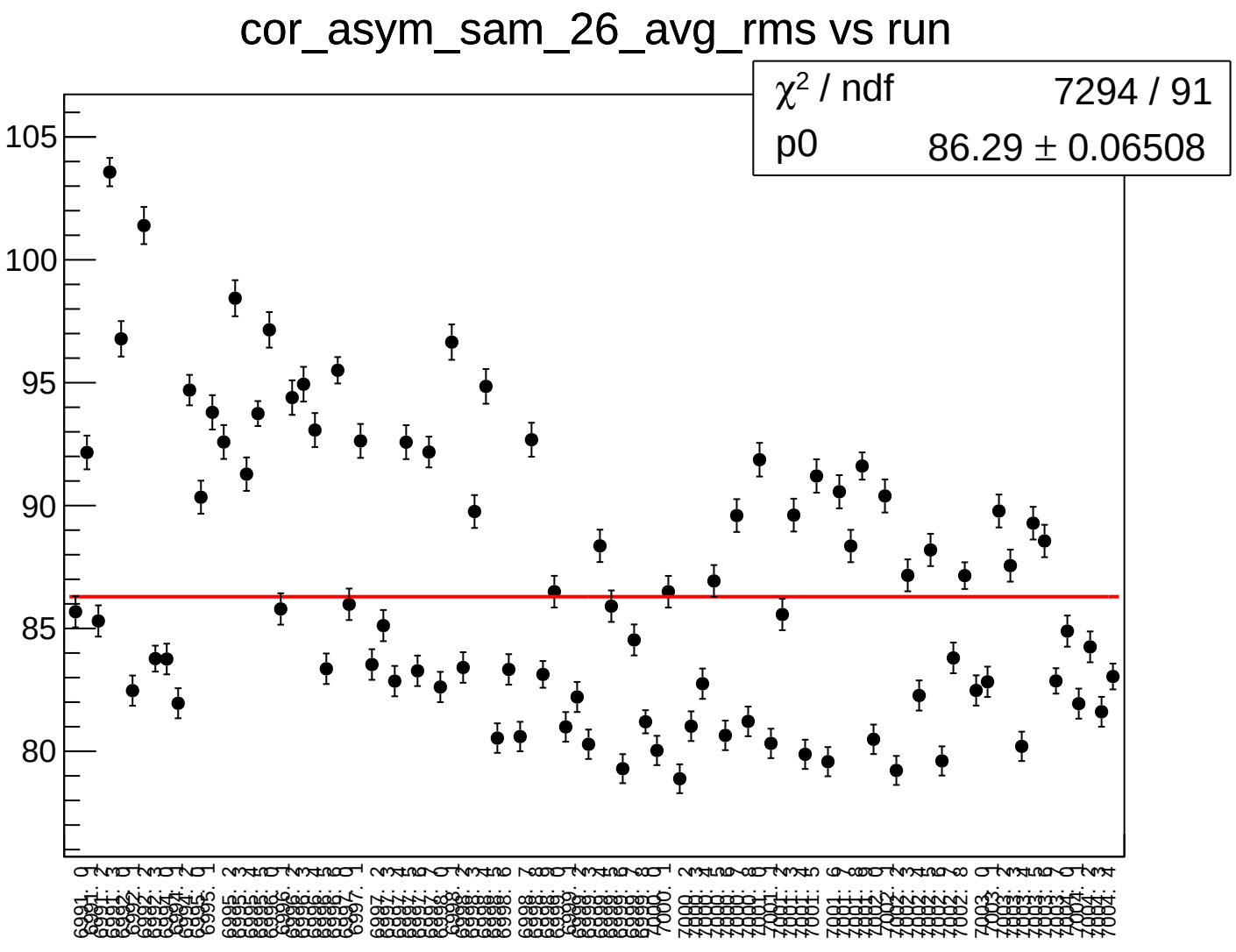

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 78.34 / 91
p0 −719.1± 613.7
pull
Entries 92
Mean −556
Std Dev 0

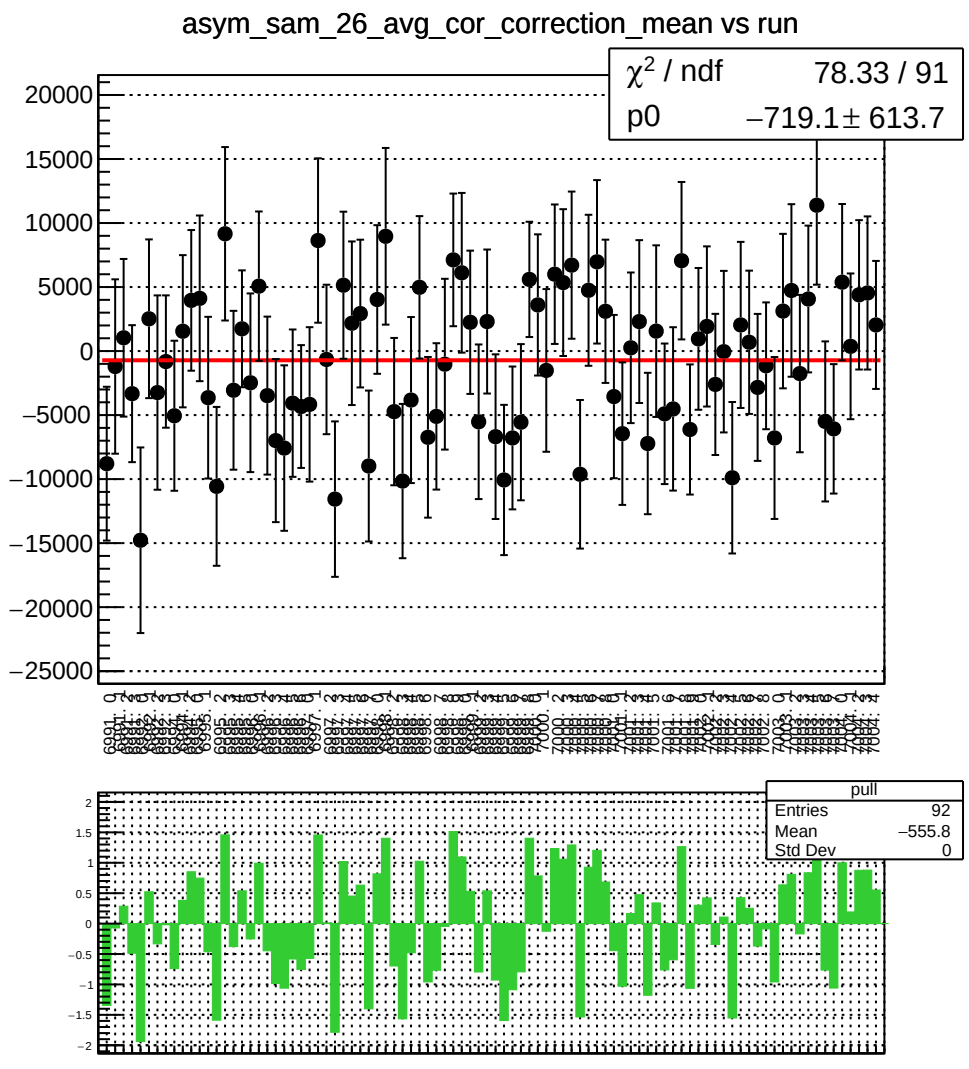

pull1D
Entries 92
Mean −0.006464
Std Dev 0.9227

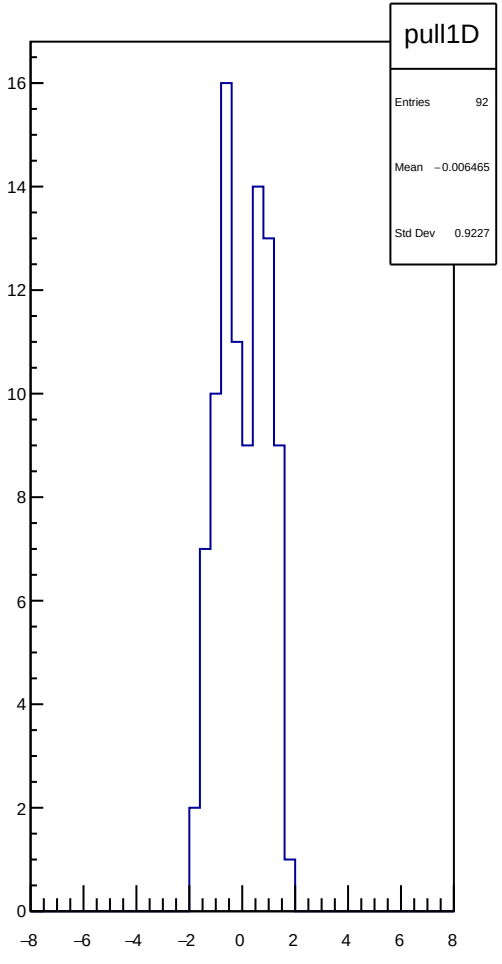

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 7561 / 91
p0 575.3 ± 0.4339
700
650
600
550
500

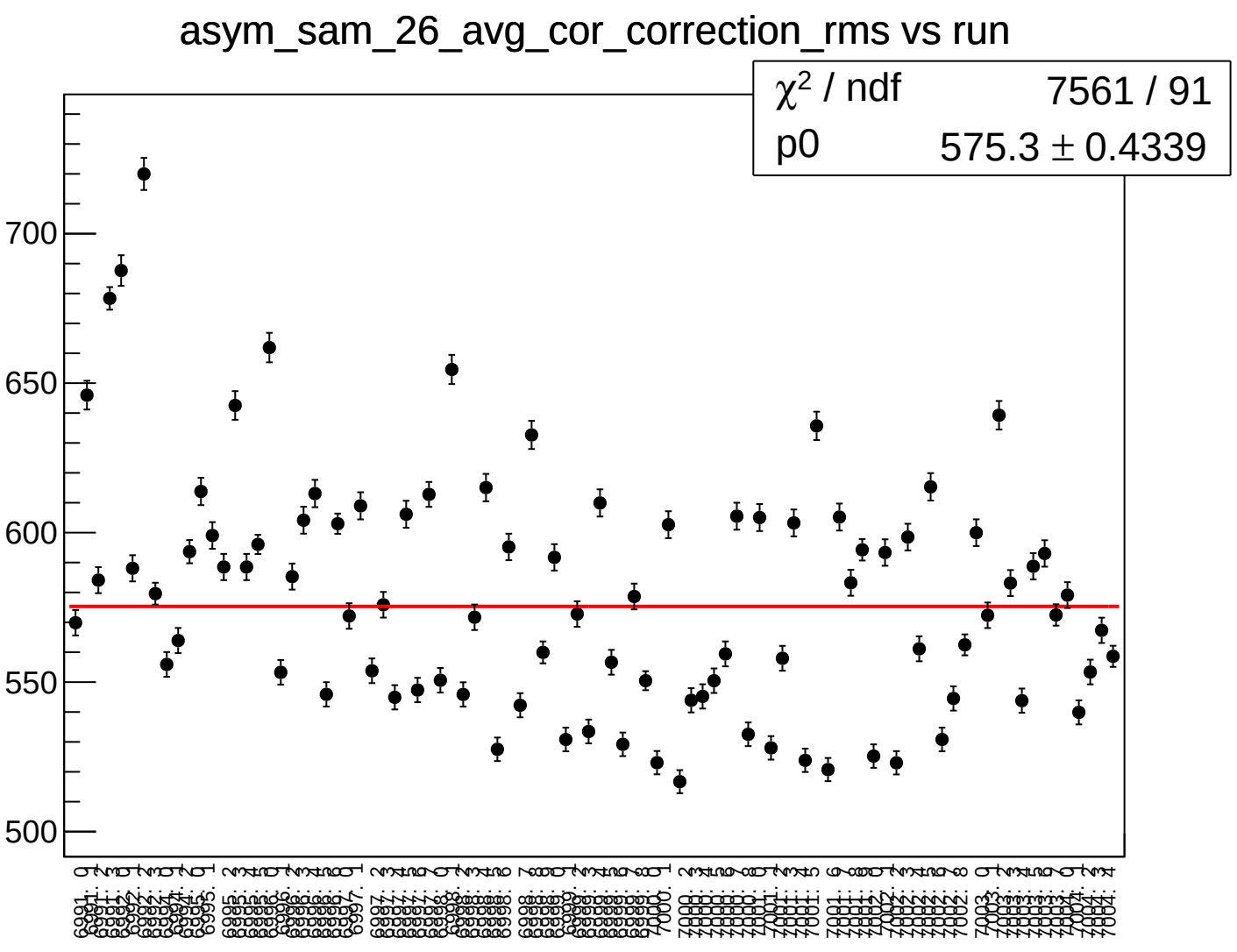

cor_asym_sam_26_avg_mean vs run
χ² / ndf 88.58 / 91
p0 −50.01 ± 92.04
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean 292.5
Std Dev 0
2
1
0
−1
−2
−3

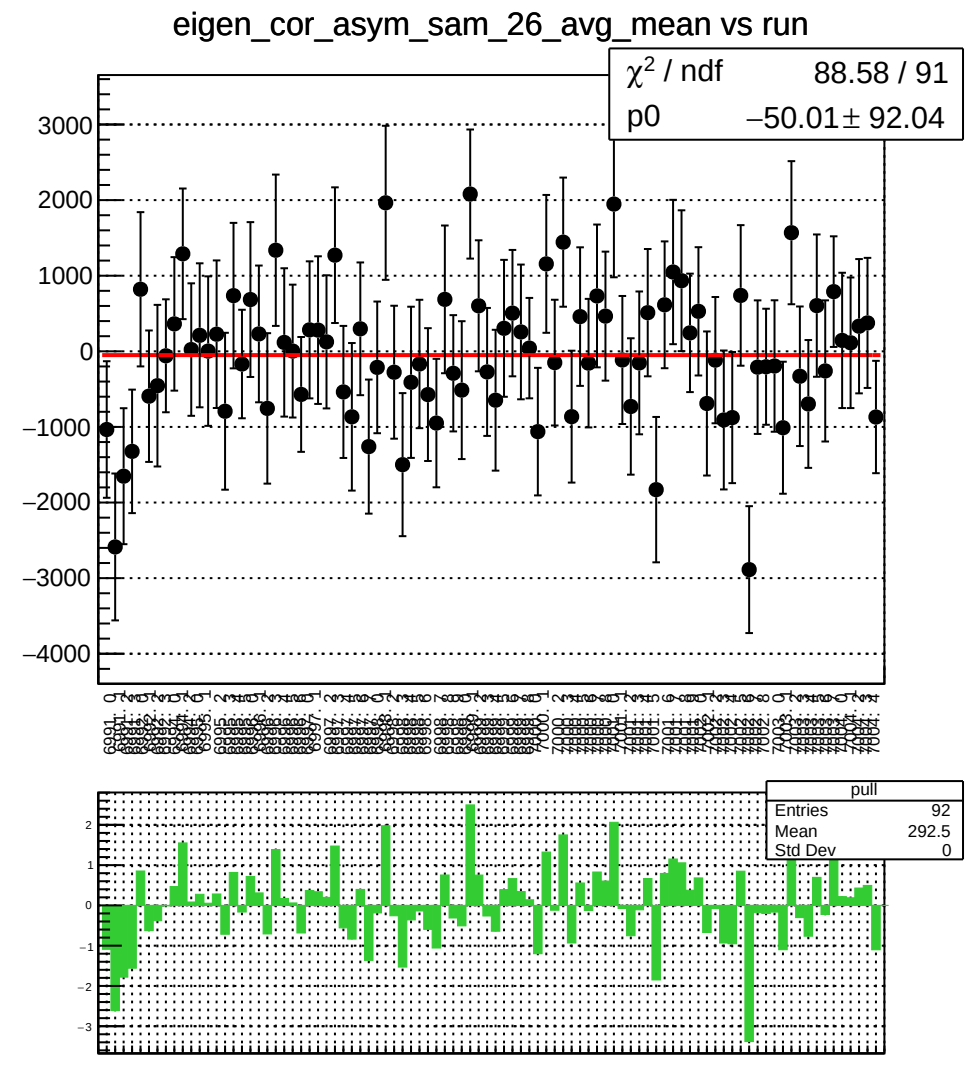

pull1D
Entries 92
Mean 0.008012
Std Dev 0.9812
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

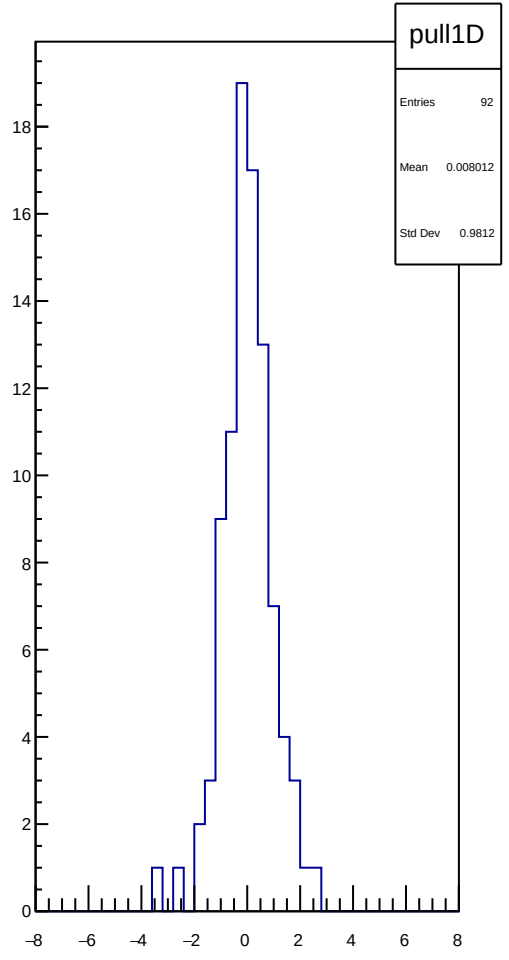

cor_asym_sam_26_avg_rms vs run
χ² / ndf 7294 / 91
p0 86.29 ± 0.06508
105
100
95
90
85
80

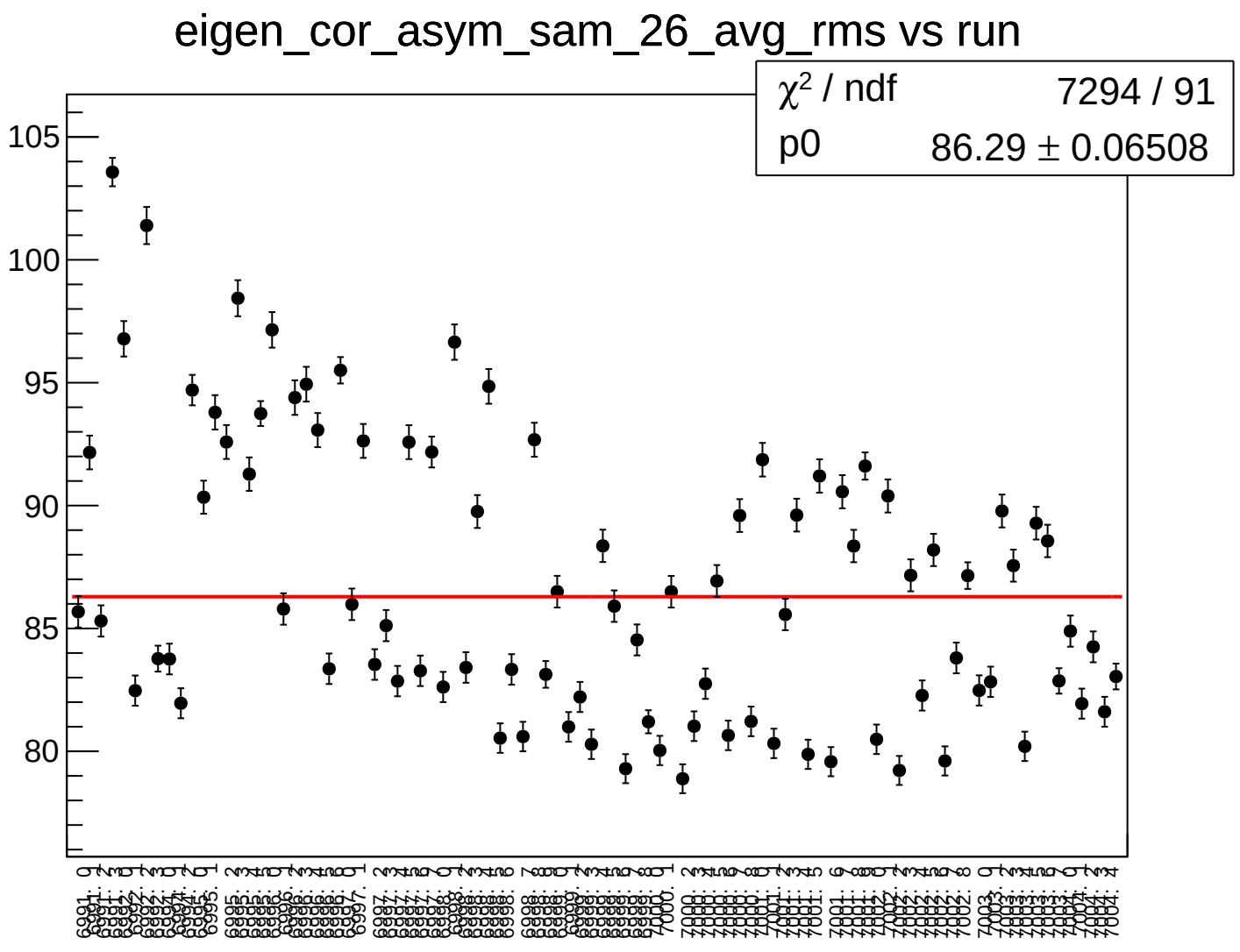

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 78.33 / 91
p0 −719.1± 613.7
pull
Entries 92
Mean −555.8
Std Dev 0

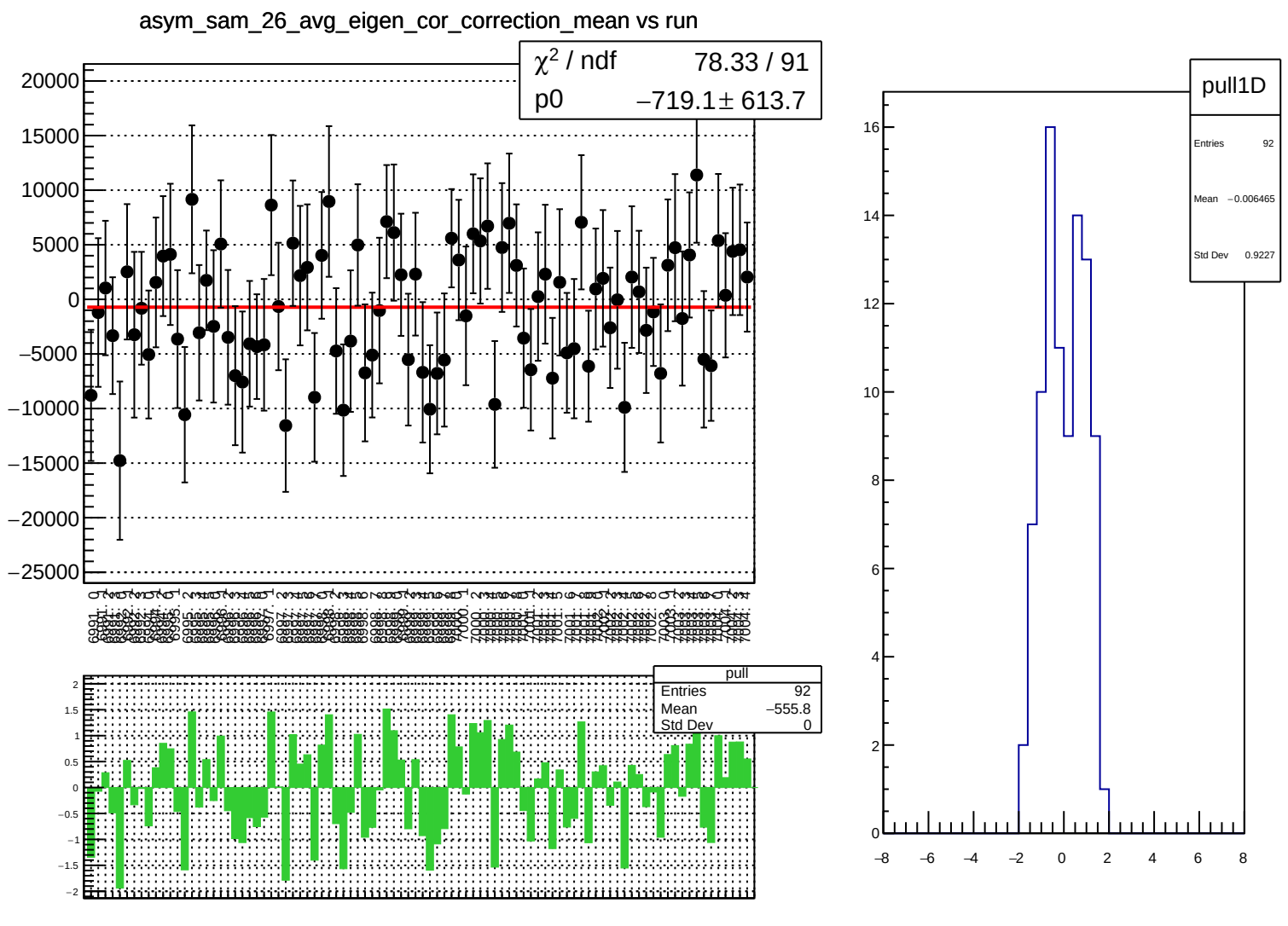

pull1D
Entries 92
Mean −0.006465
Std Dev 0.9227

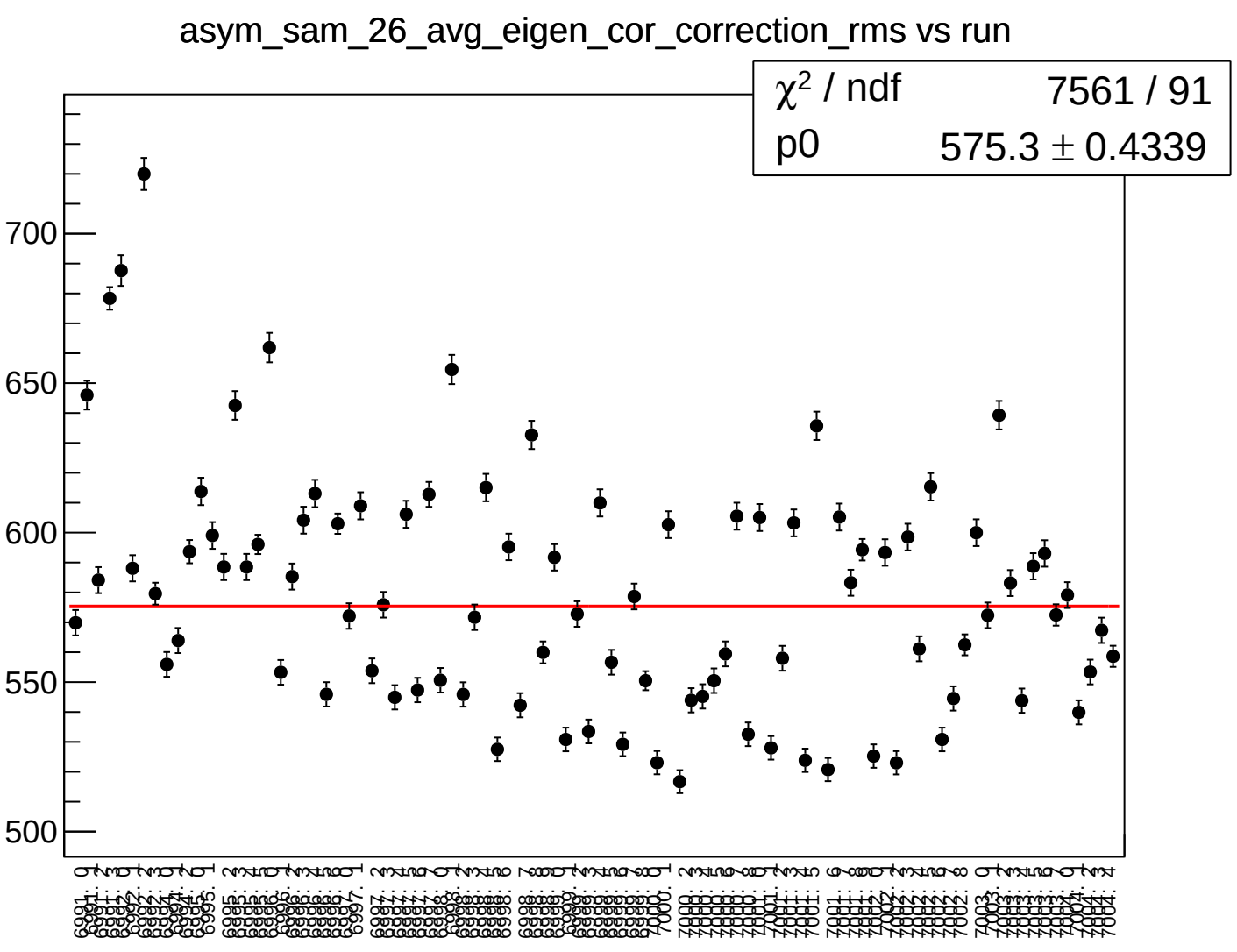

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 7561 / 91
p0 575.3 ± 0.4339
700
650
600
550
500

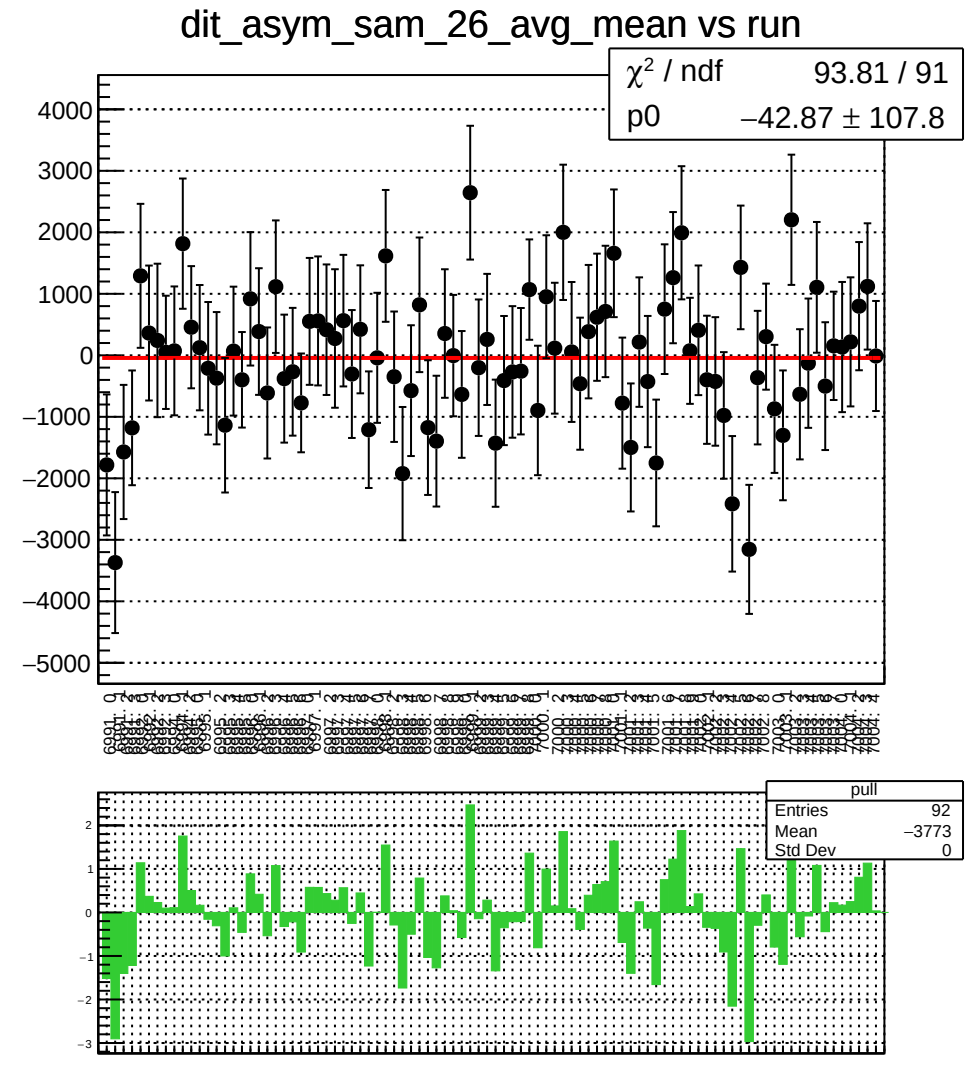

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 88.58 / 91
p0 −50.01 ± 92.04
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean 292.5
Std Dev 0
2
1
0
−1
−2
−3

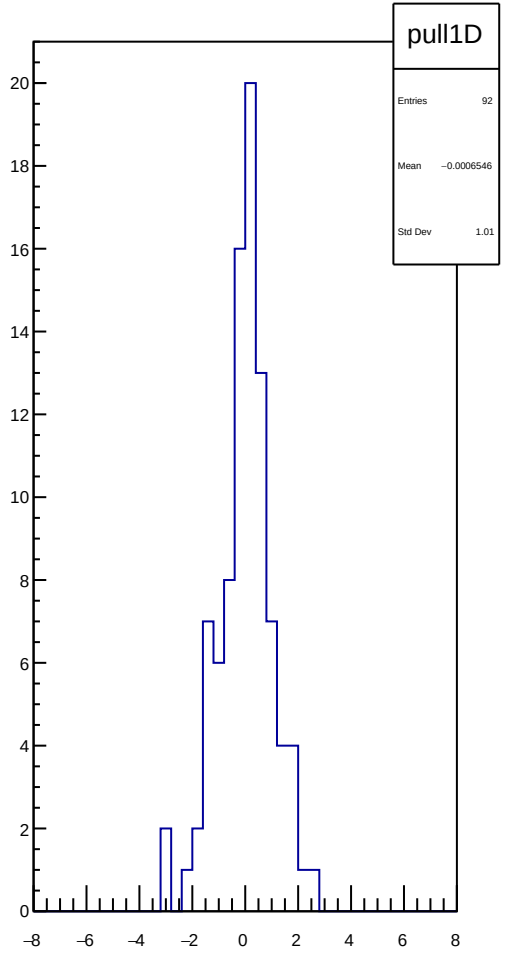

pull1D
Entries 92
Mean 0.008012
Std Dev 0.9812
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

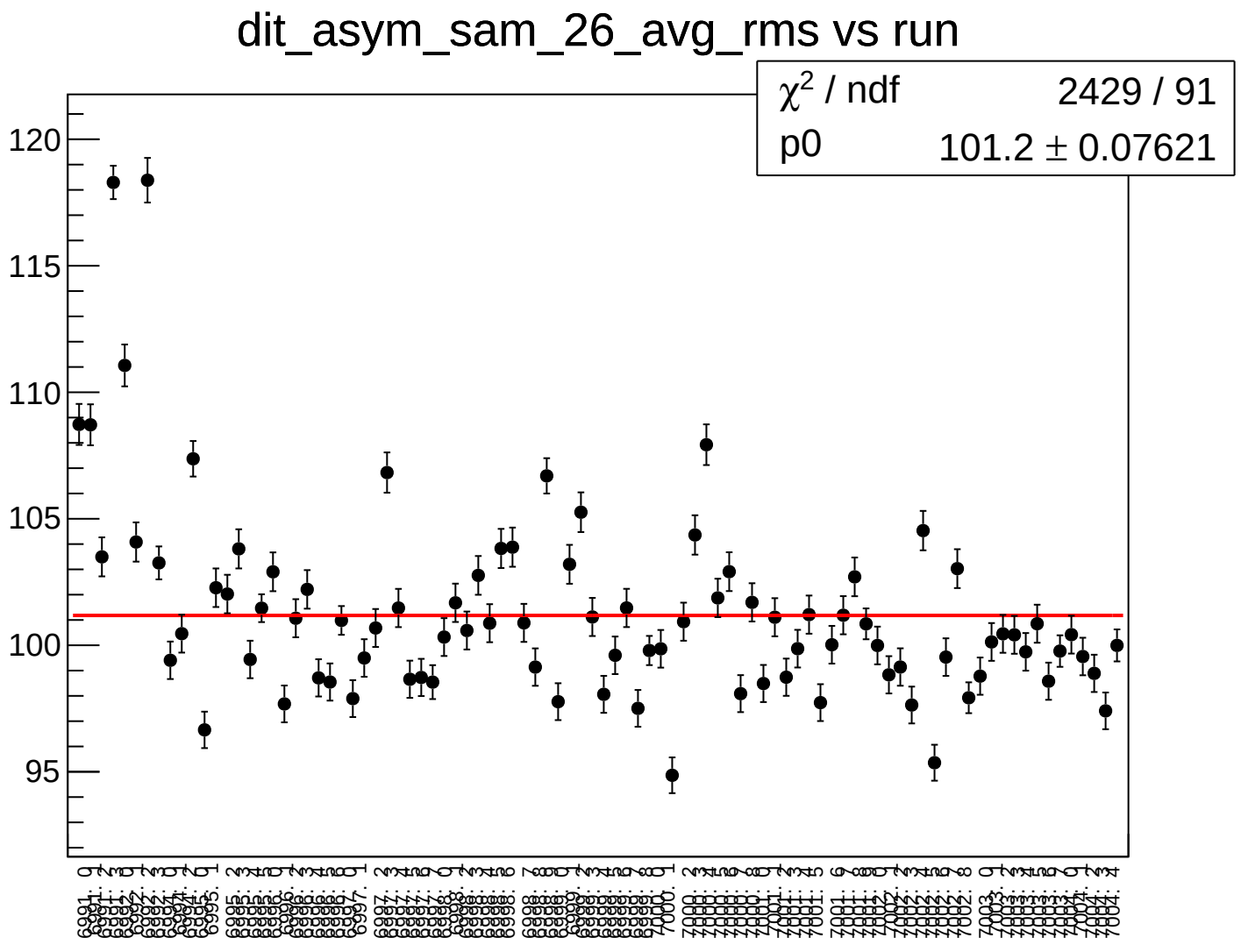

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 7294 / 91
p0 86.29 ± 0.06508
105
100
95
90
85
80

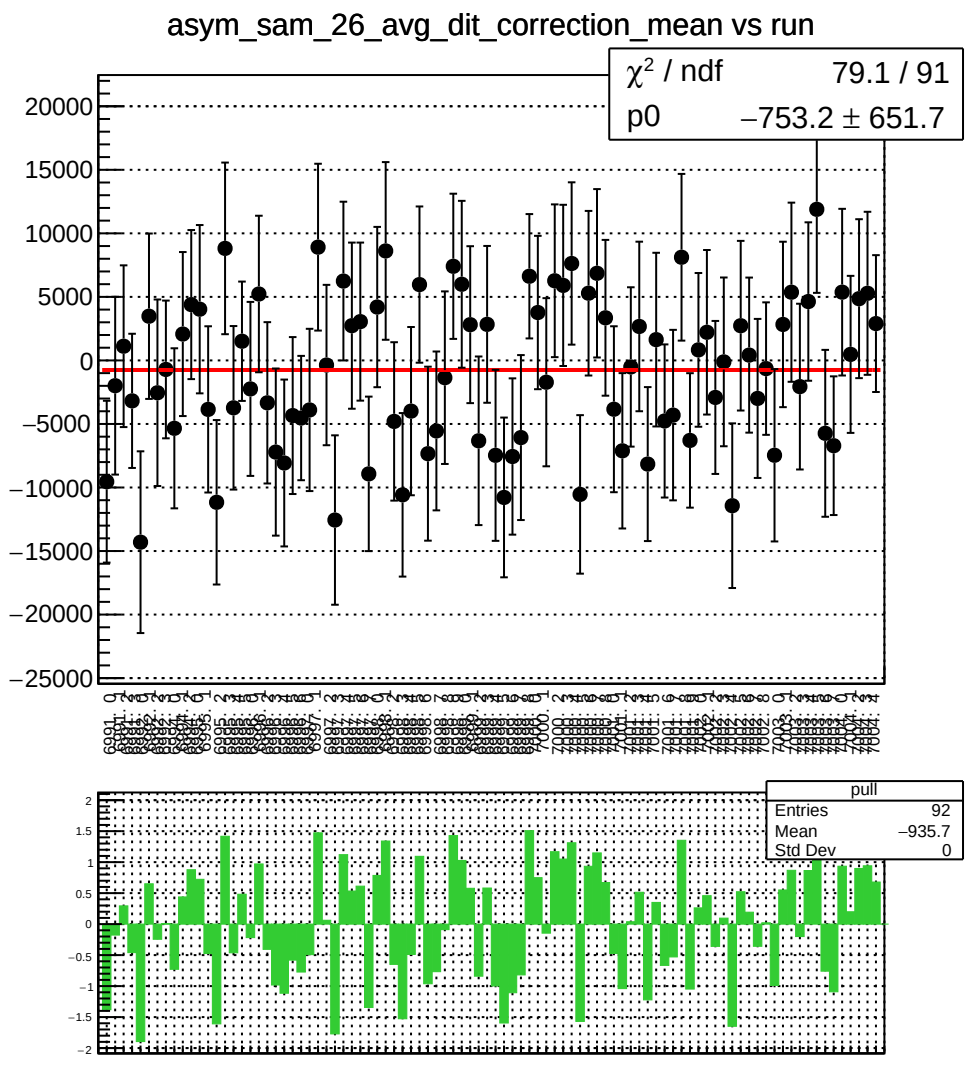

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.33 / 91
p0 −719.1± 613.7
pull
Entries 92
Mean −555.8
Std Dev 0
pull1D
Entries 92
Mean −0.006465
Std Dev 0.9227

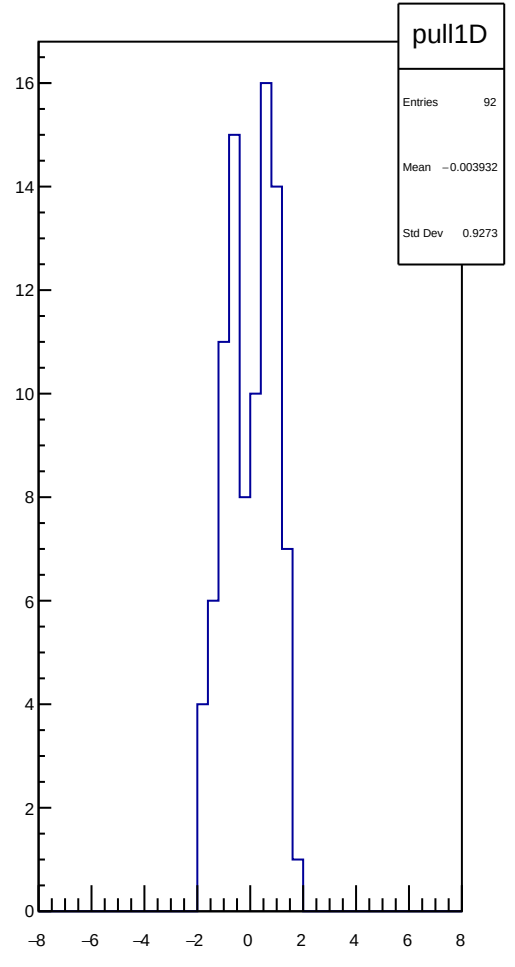

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 7561 / 91
p0 575.3 ± 0.4339
700
650
600
550
500

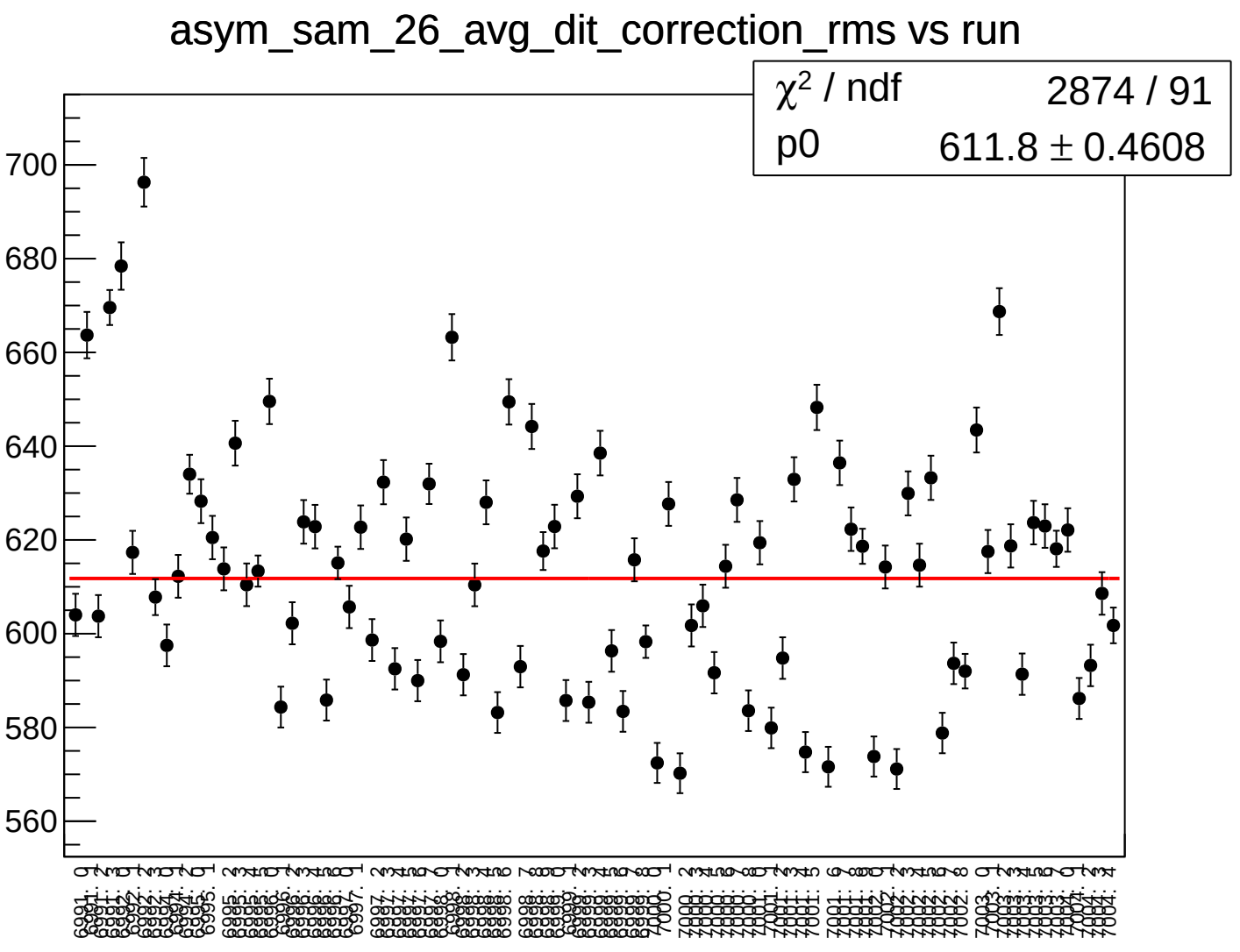

dit_asym_sam_26_avg_mean vs run
χ² / ndf 93.81 / 91
p0 −42.87 ± 107.8
pull
Entries 92
Mean −3773
Std Dev 0

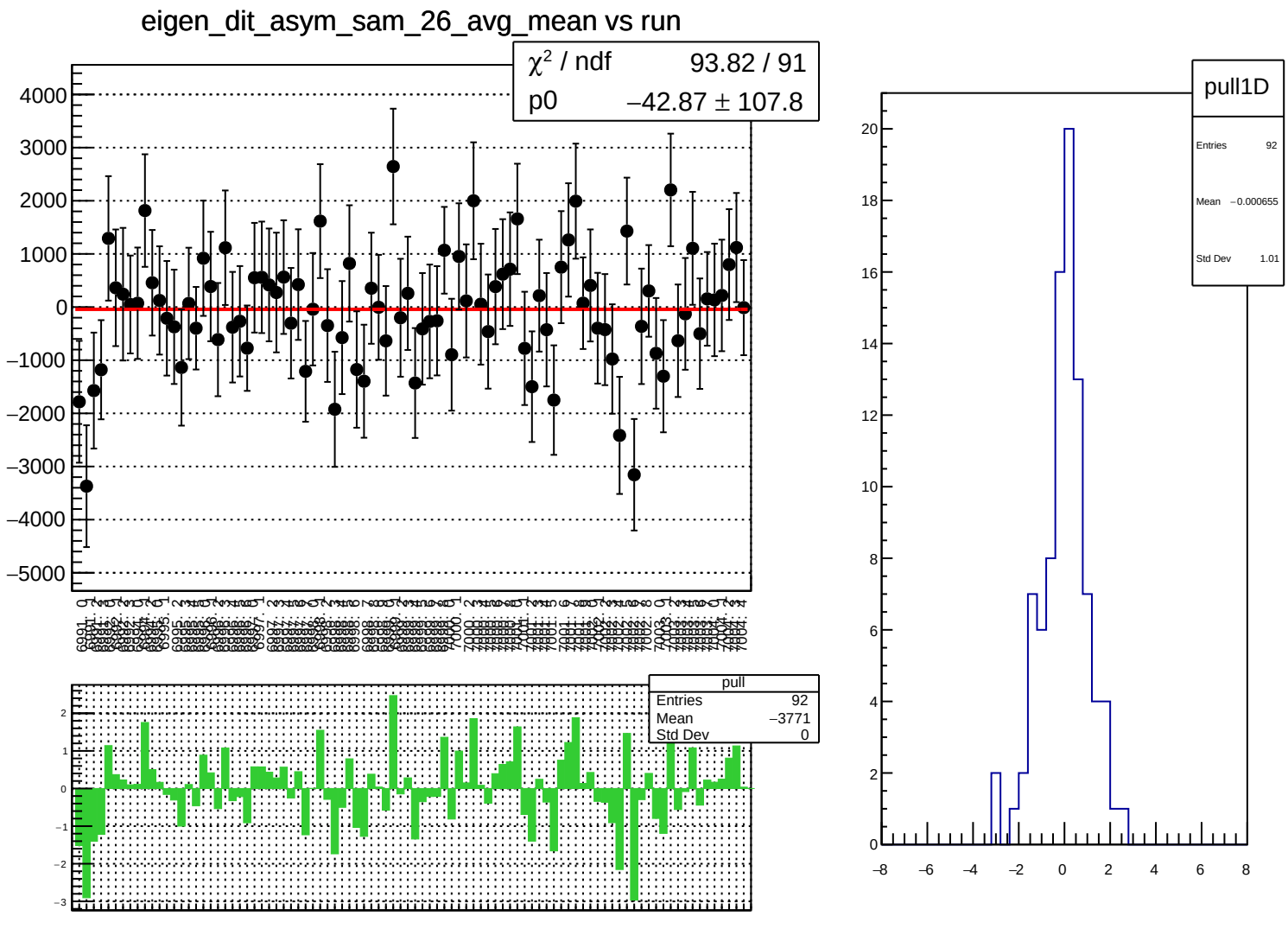

pull1D
Entries 92
Mean −0.0006546
Std Dev 1.01

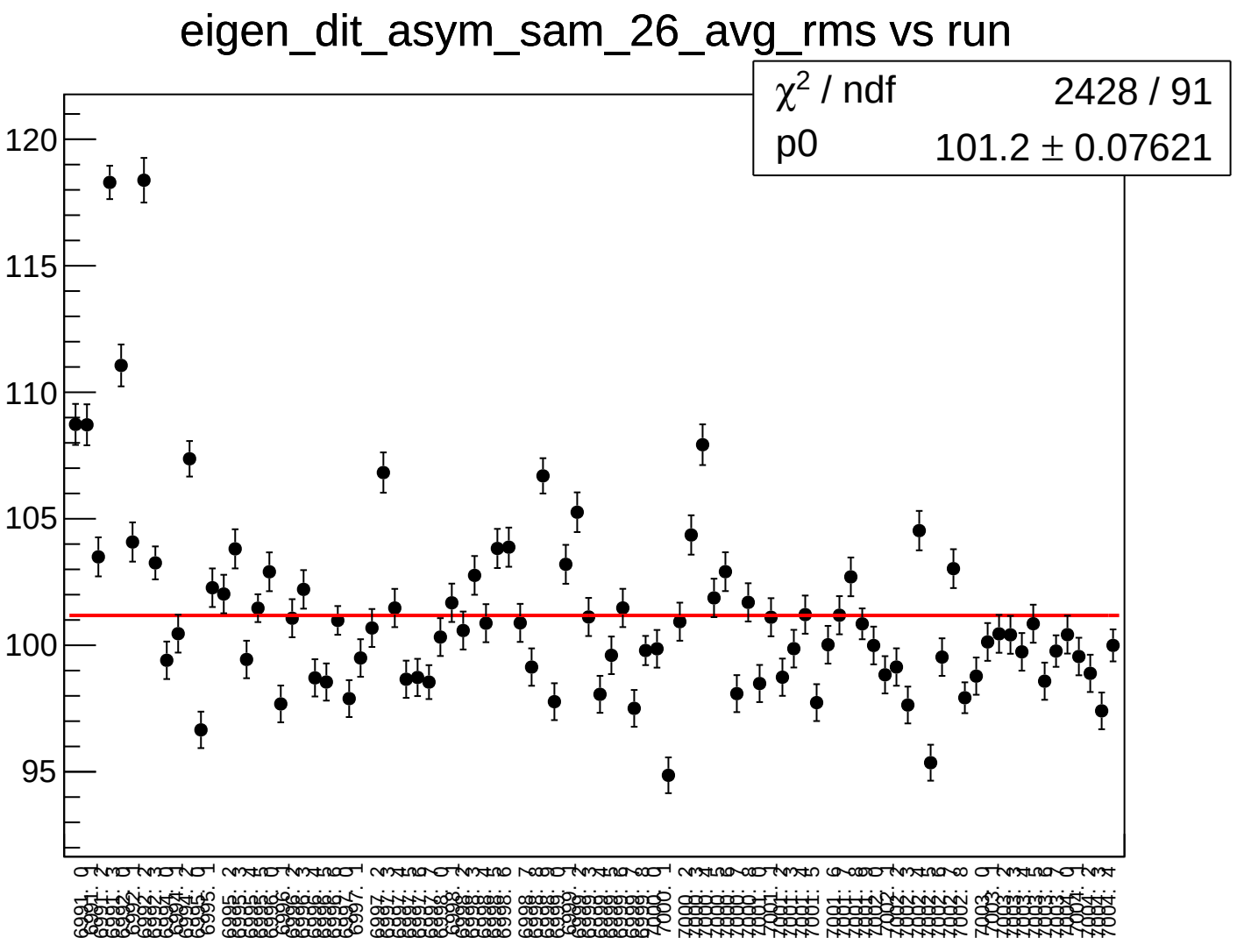

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 2429 / 91
p0 101.2 ± 0.07621
120
115
110
105
100
95

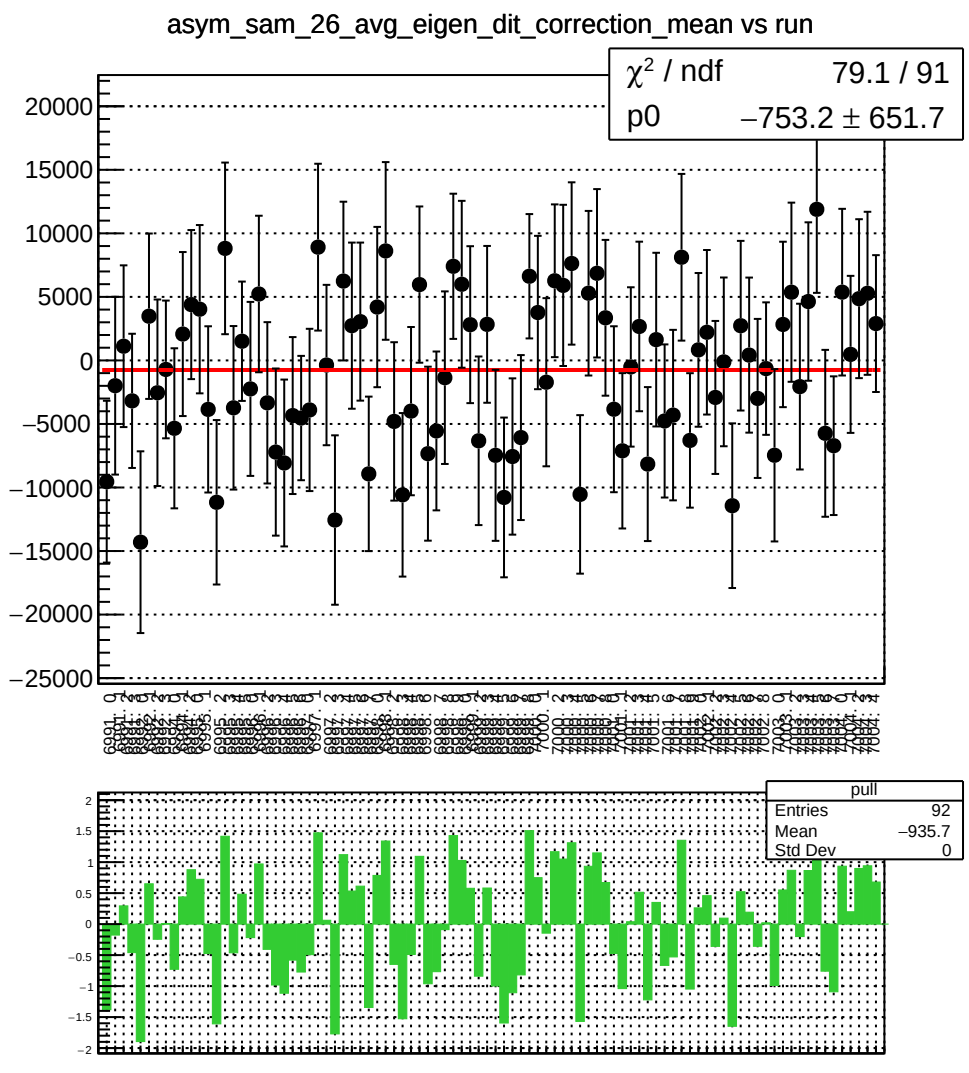

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 79.1 / 91
p0 −753.2 ± 651.7
pull
Entries 92
Mean −935.7
Std Dev 0

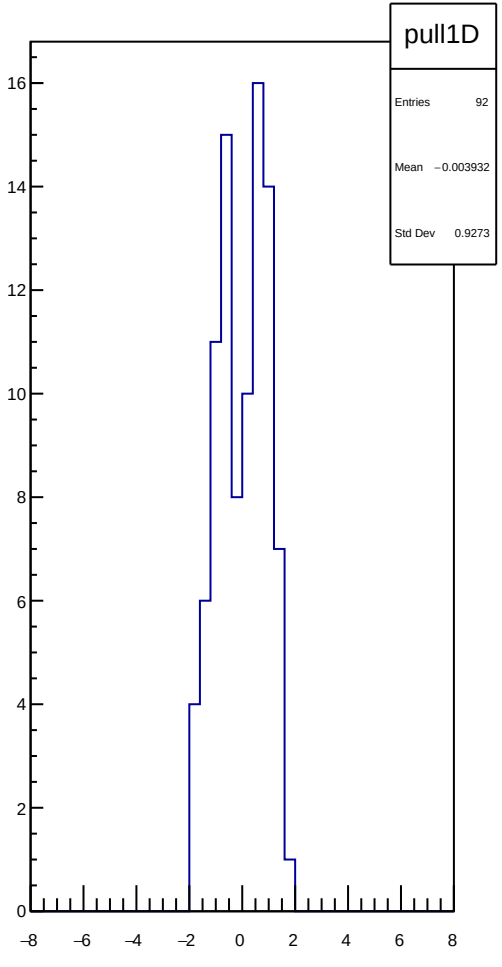

pull1D
Entries 92
Mean −0.003932
Std Dev 0.9273

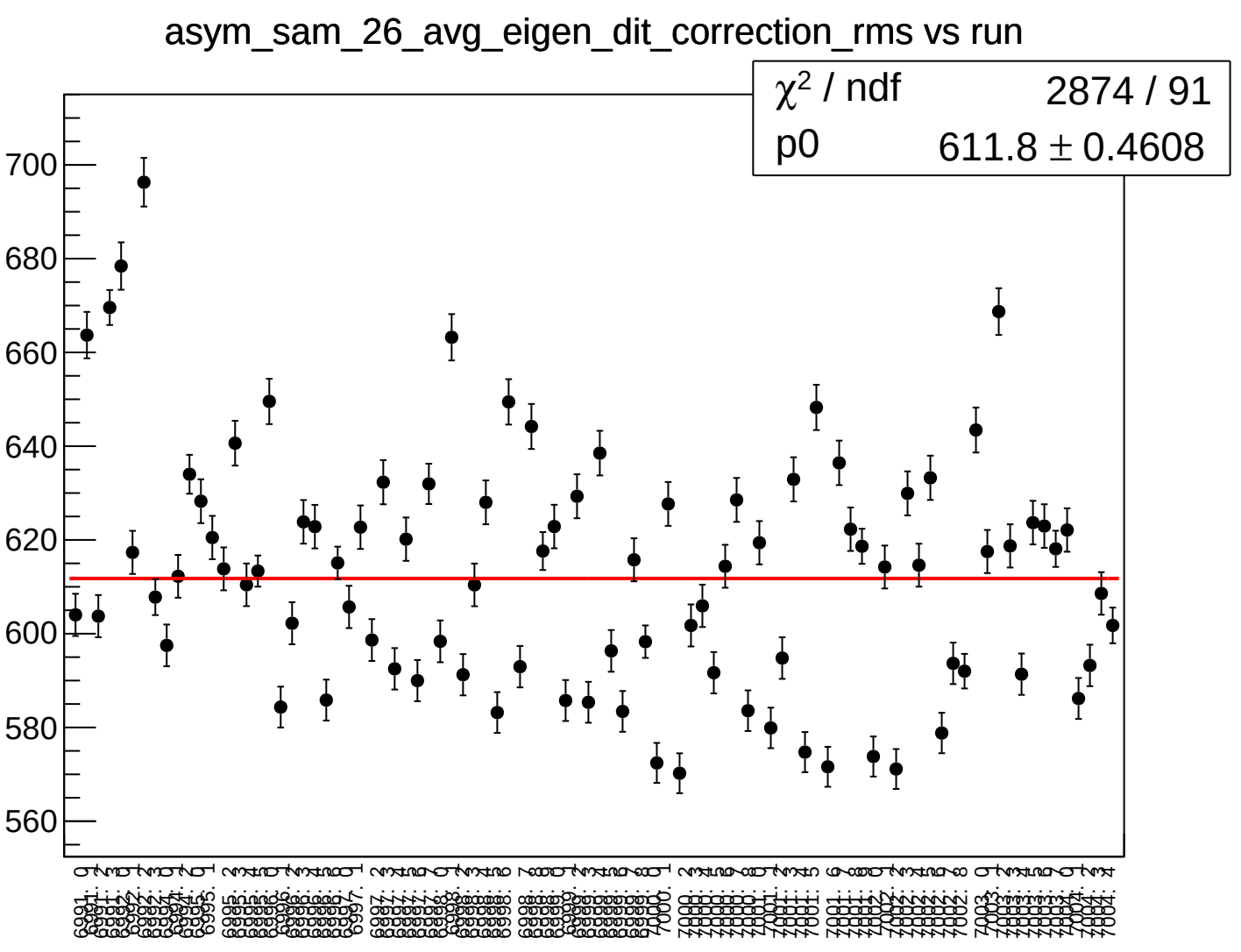

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 2874 / 91
p0 611.8 ± 0.4608
700
680
660
640
620
600
580
560

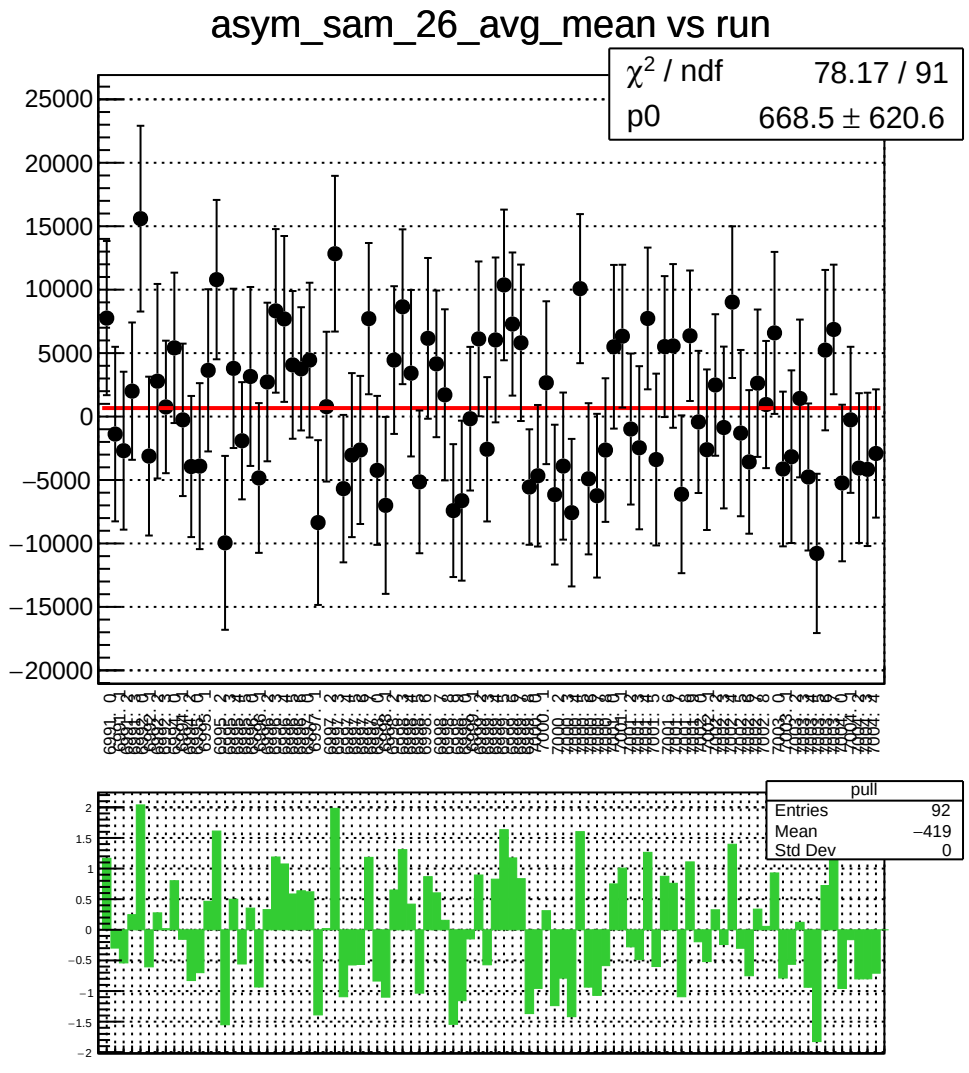

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 93.82 / 91
p0 −42.87 ± 107.8
pull
Entries 92
Mean −3771
Std Dev 0
pull1D
Entries 92
Mean −0.000655
Std Dev 1.01

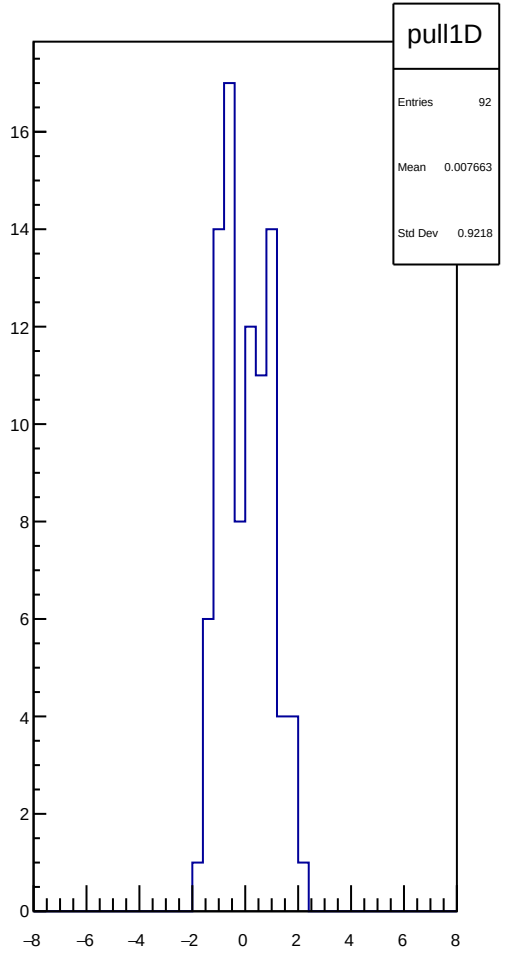

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2428 / 91
p0 101.2 ± 0.07621
120
115
110
105
100
95

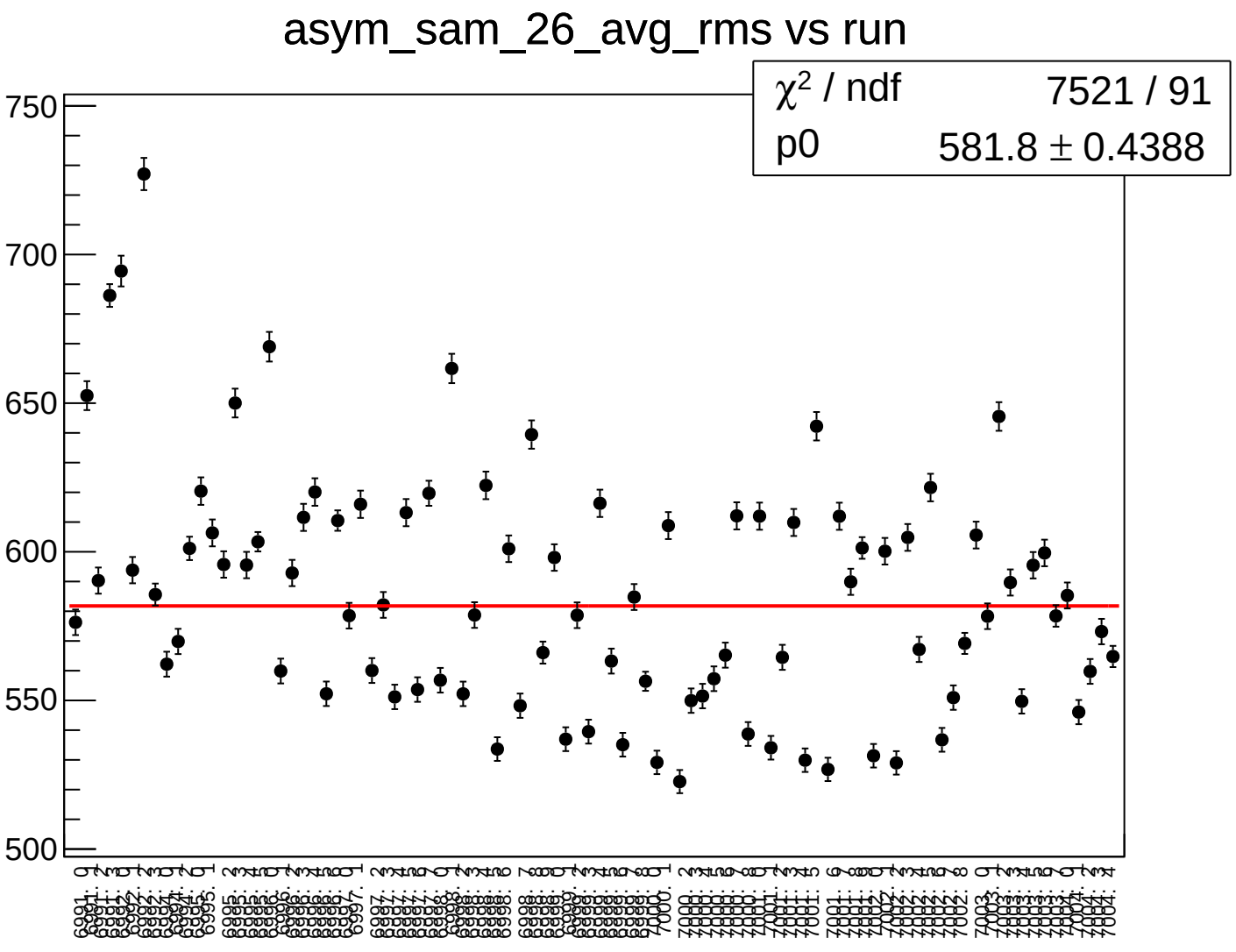

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.1 / 91
p0 −753.2 ± 651.7
pull
Entries 92
Mean −935.7
Std Dev 0

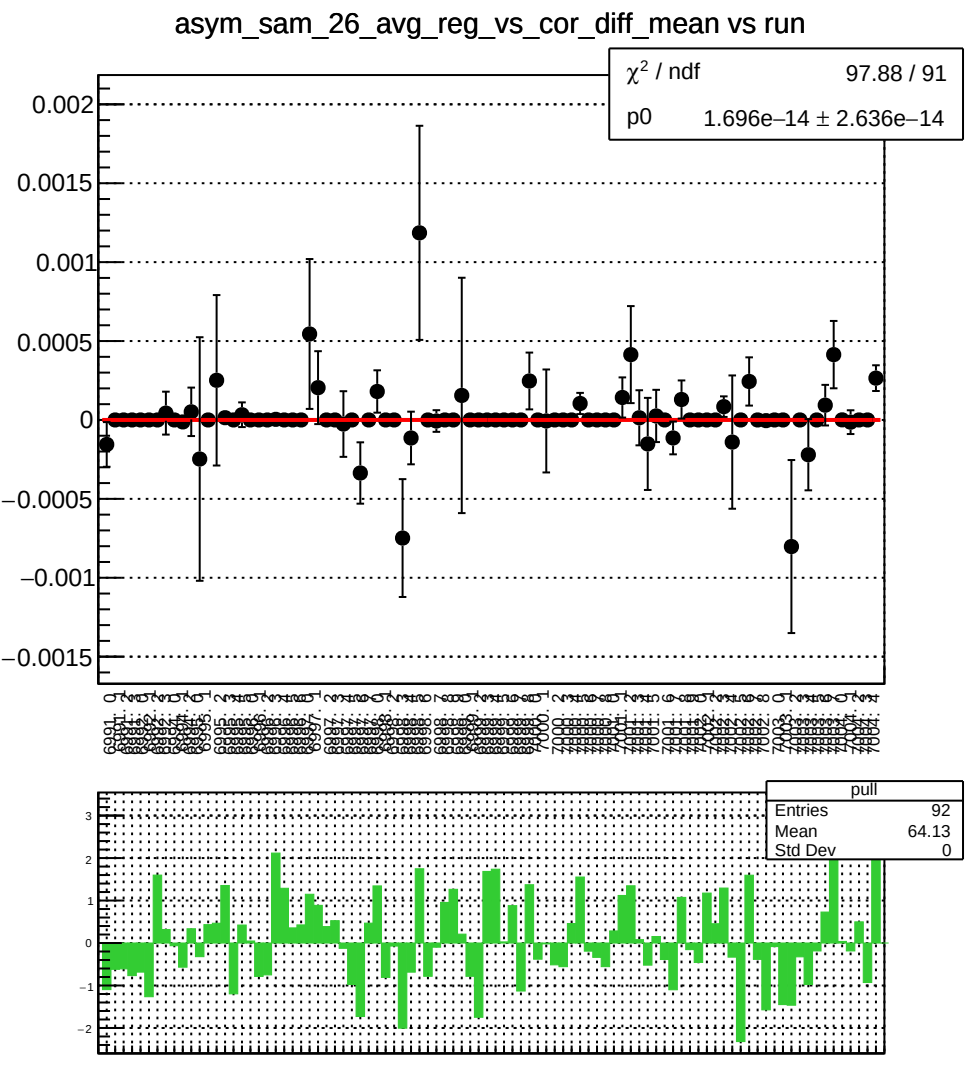

pull1D
Entries 92
Mean −0.003932
Std Dev 0.9273

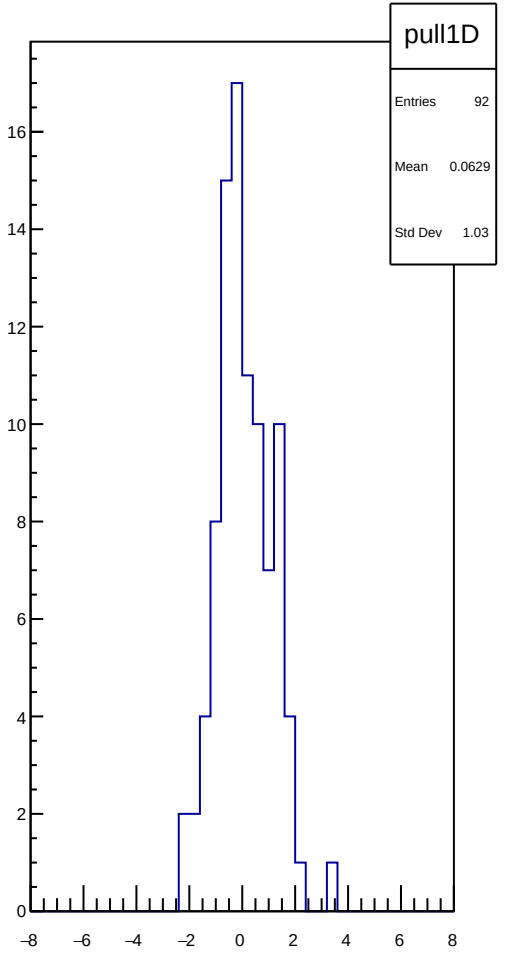

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 2874 / 91
p0 611.8 ± 0.4608
700
680
660
640
620
600
580
560

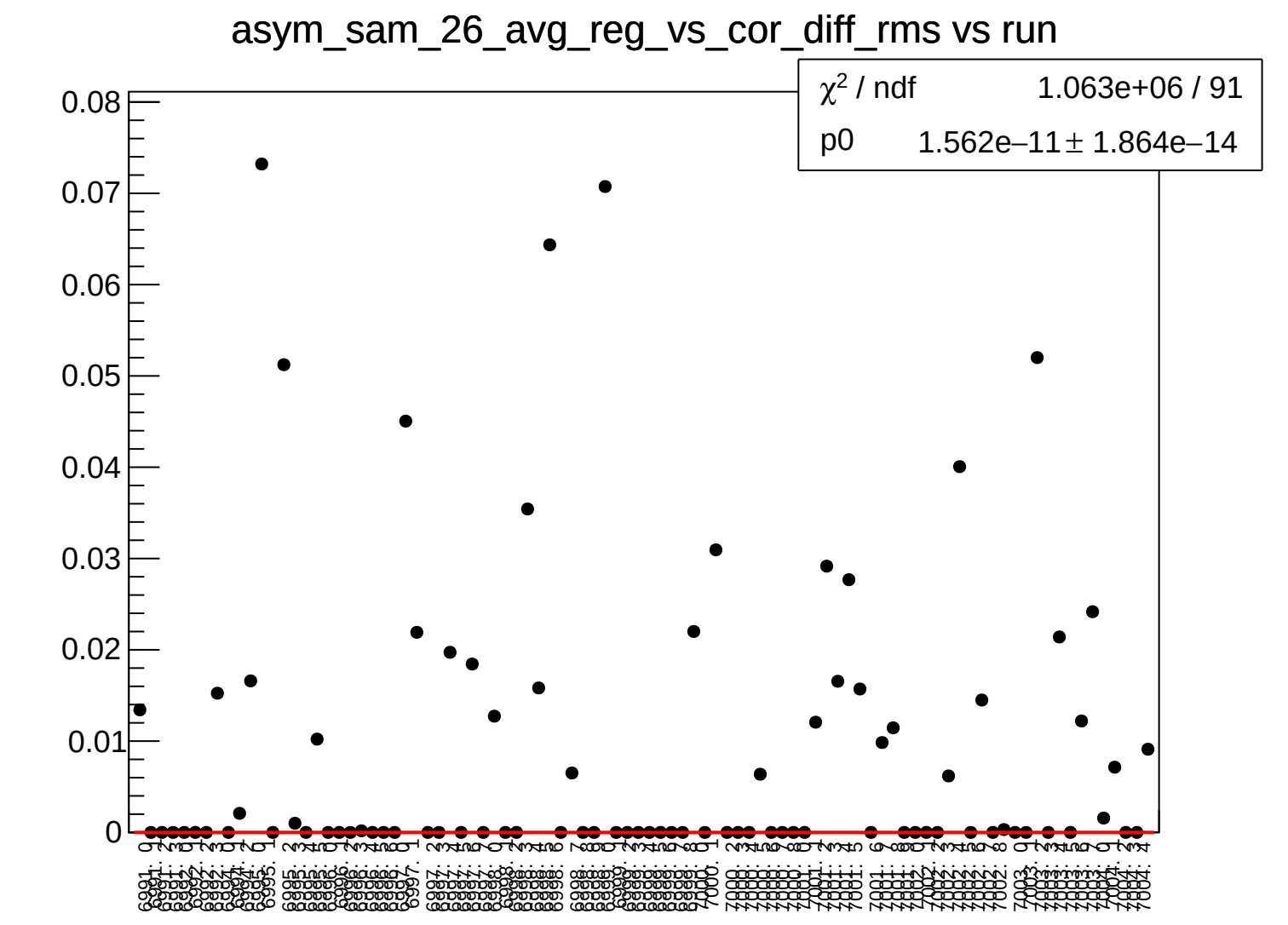

asym_sam_26_avg_mean vs run
χ² / ndf 78.17 / 91
p0 668.5 ± 620.6
pull
Entries 92
Mean −419
Std Dev 0

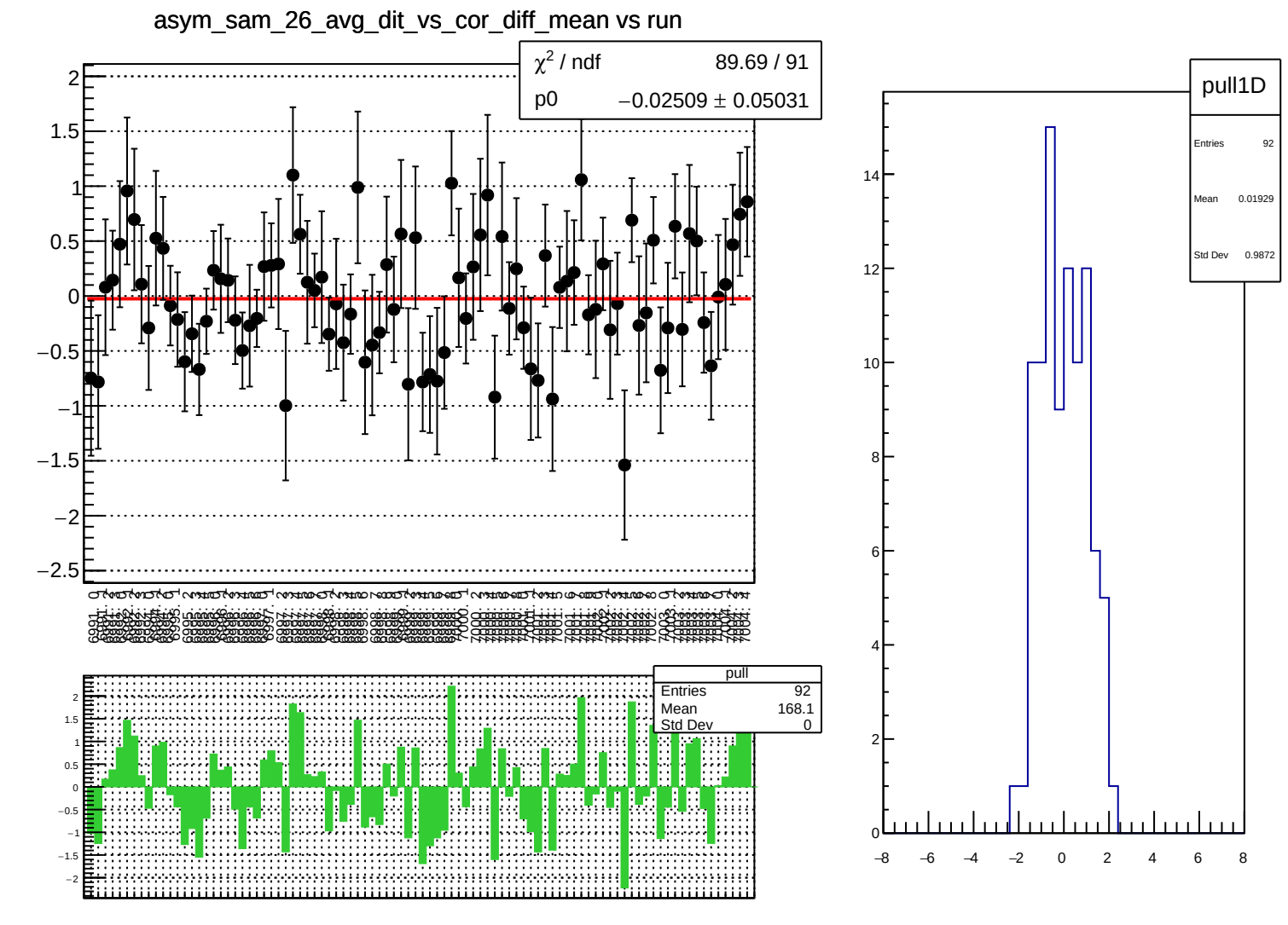

pull1D
Entries 92
Mean 0.007663
Std Dev 0.9218

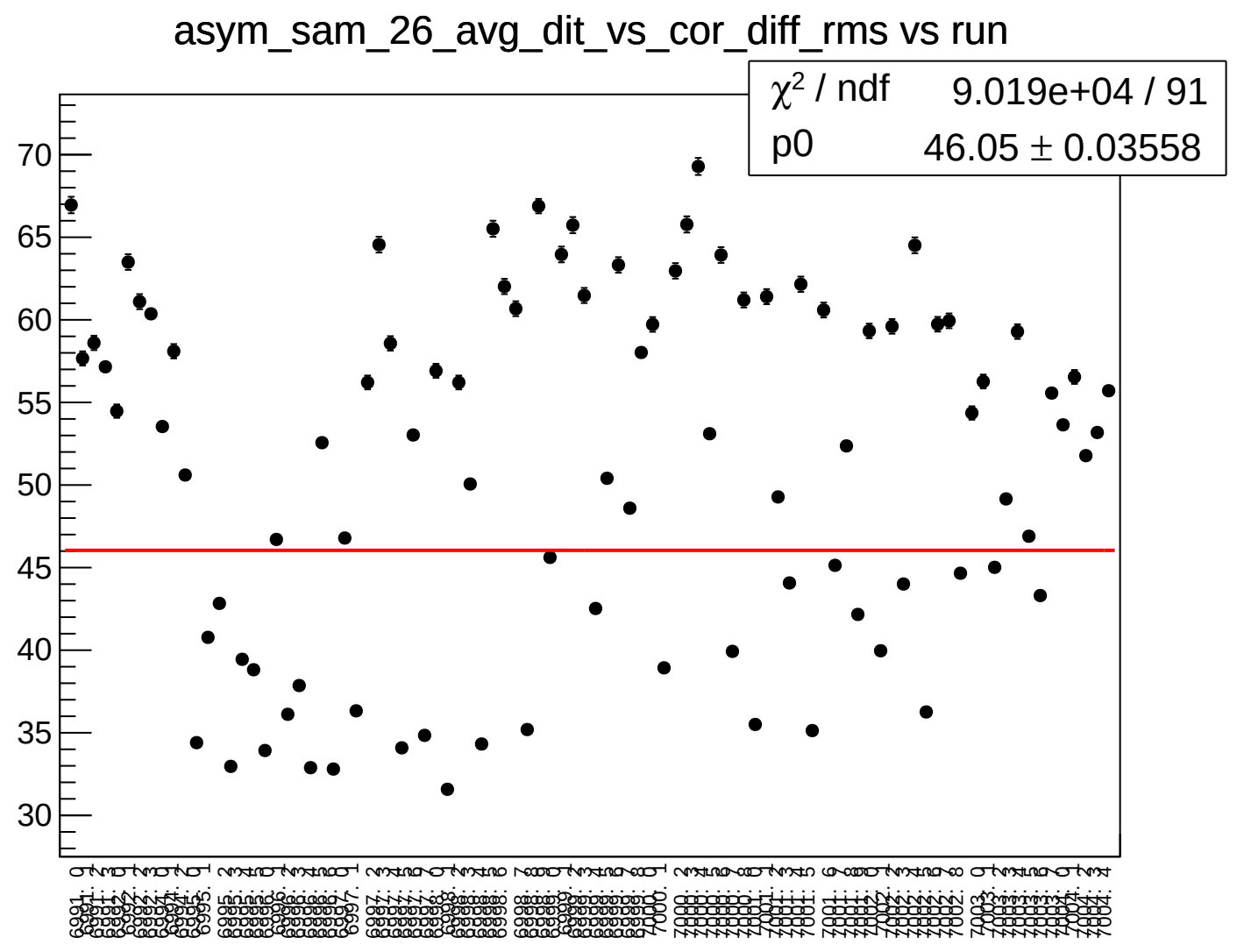

asym_sam_26_avg_rms vs run
χ² / ndf 7521 / 91
p0 581.8 ± 0.4388
750
700
650
600
550
500

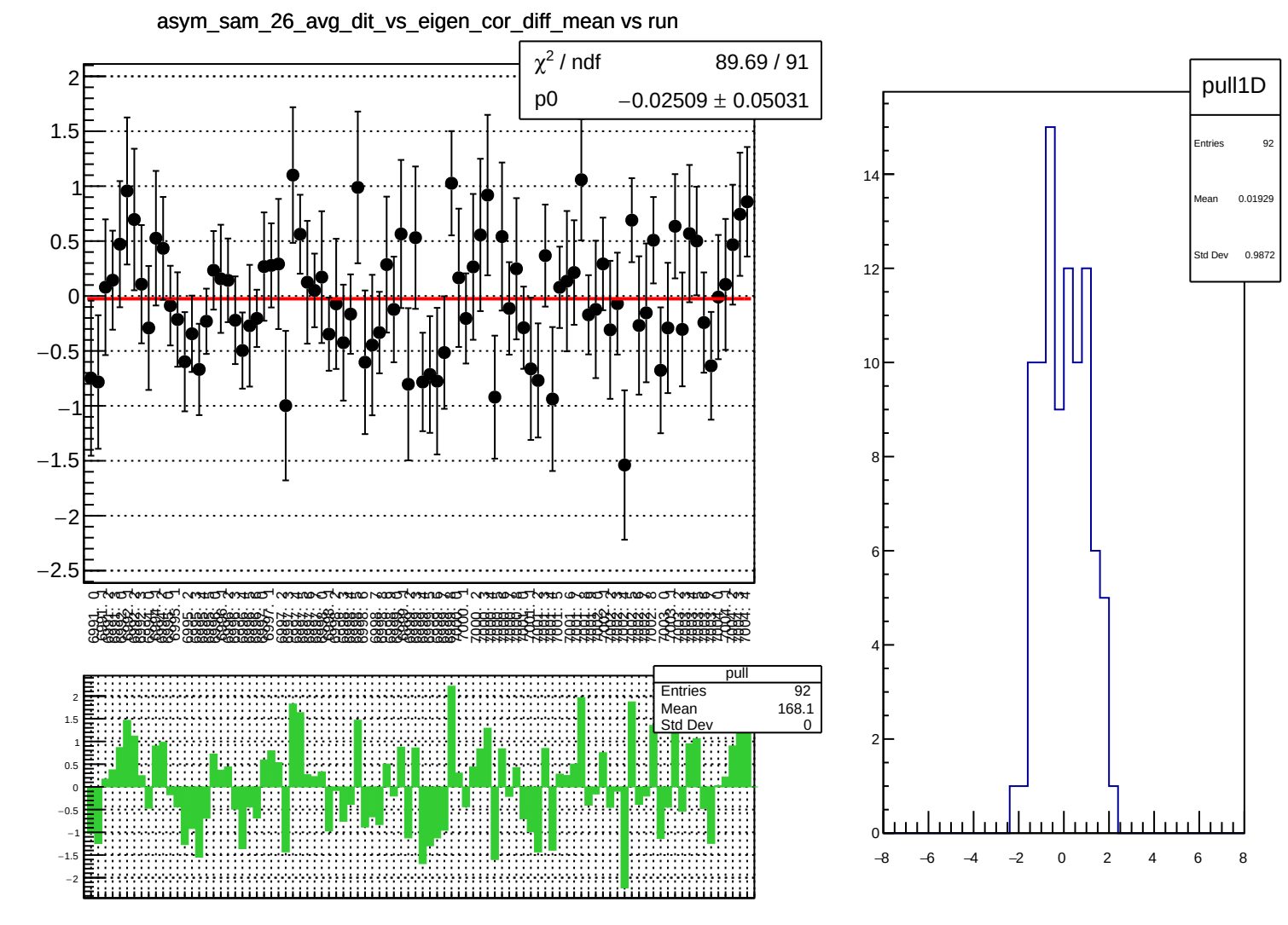

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.88 / 91
p0 1.696e−14 ± 2.636e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 64.13
Std Dev 0
3
2
1
0
−1
−2

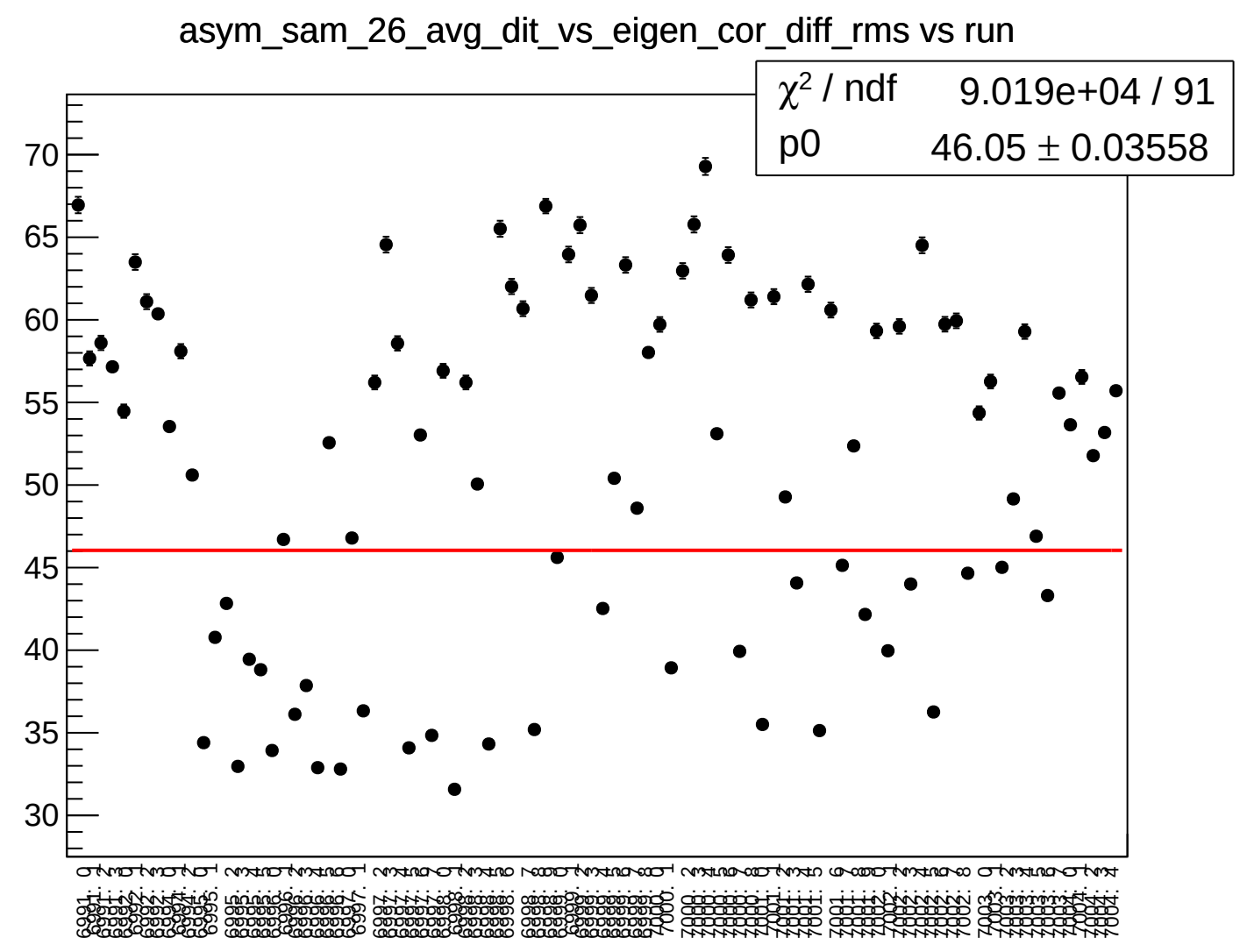

pull1D
Entries 92
Mean 0.0629
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

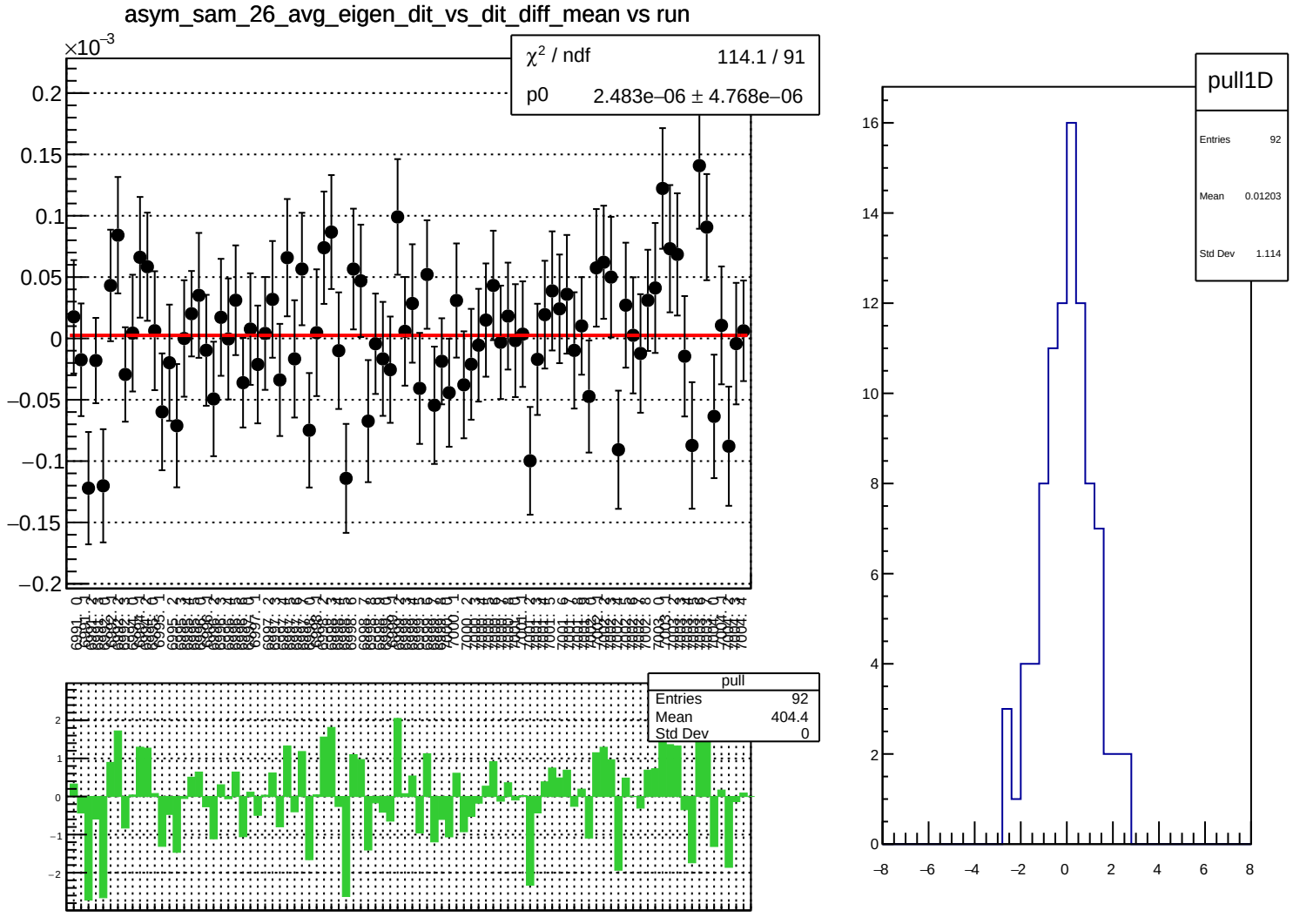

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.063e+06 / 91
p0 1.562e−11 ± 1.864e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

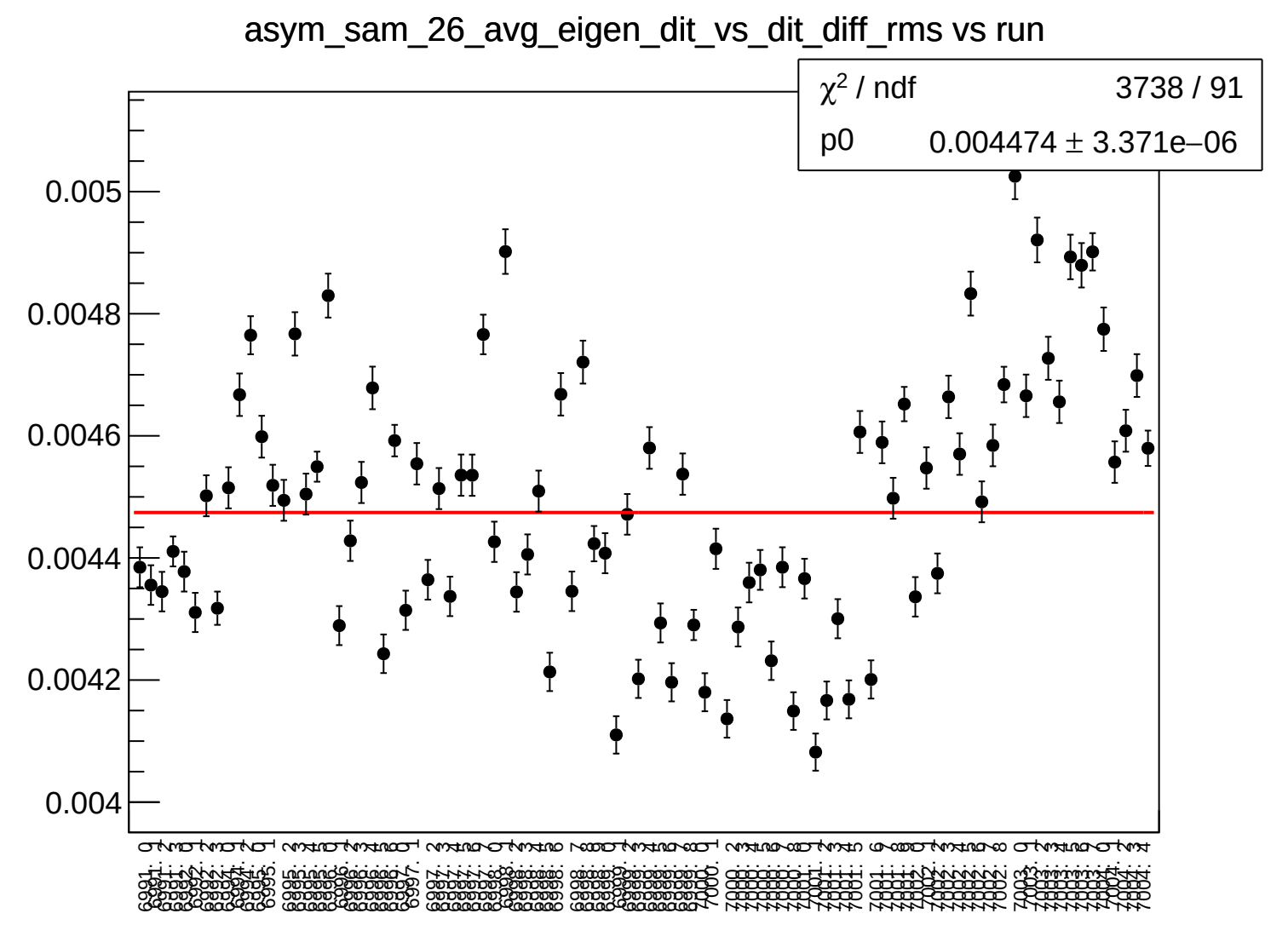

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.69 / 91
p0 −0.02509 ± 0.05031
pull
Entries 92
Mean 168.1
Std Dev 0
pull1D
Entries 92
Mean 0.01929
Std Dev 0.9872

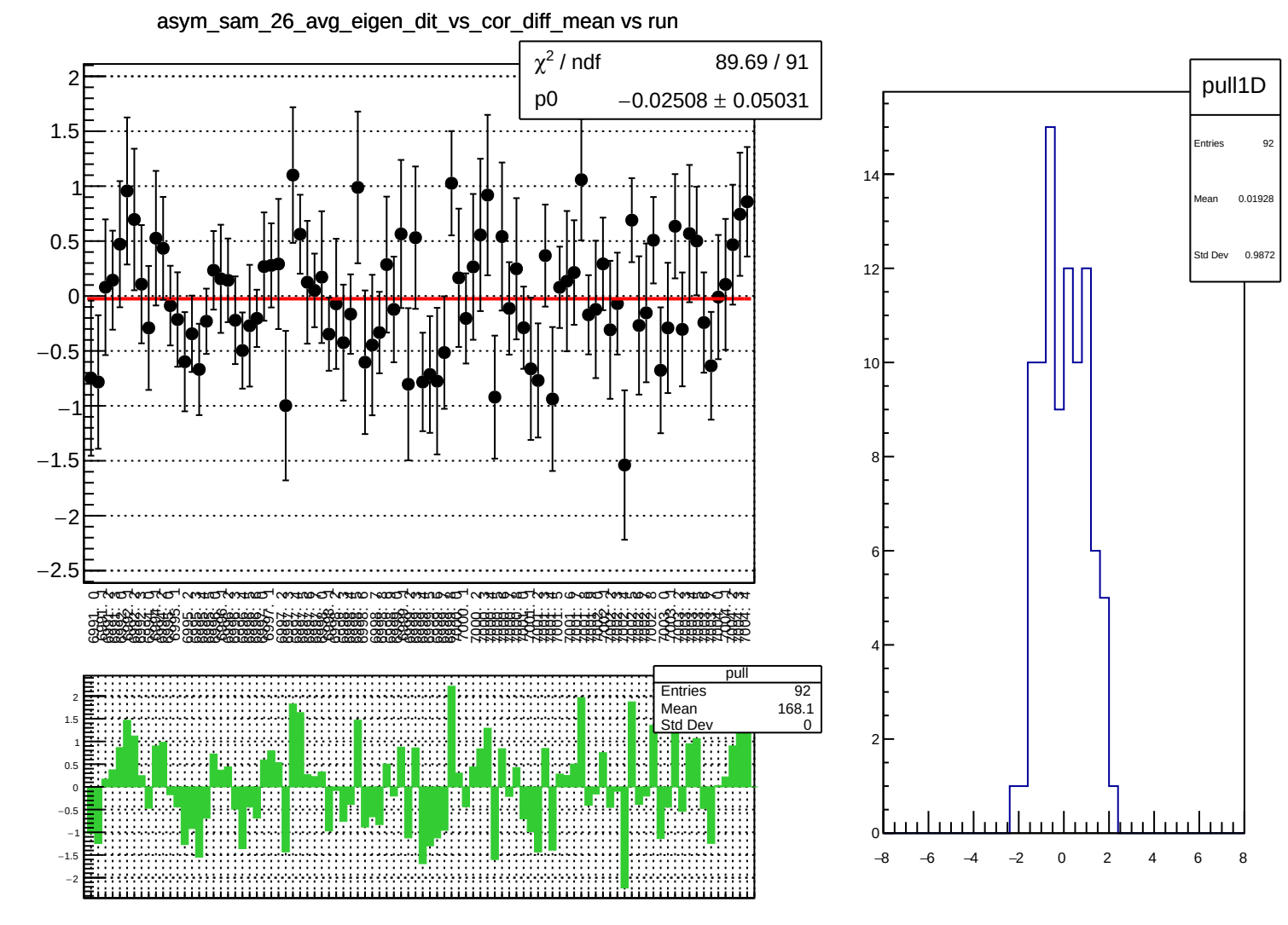

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.019e+04 / 91
p0 46.05 ± 0.03558
70
65
60
55
50
45
40
35
30

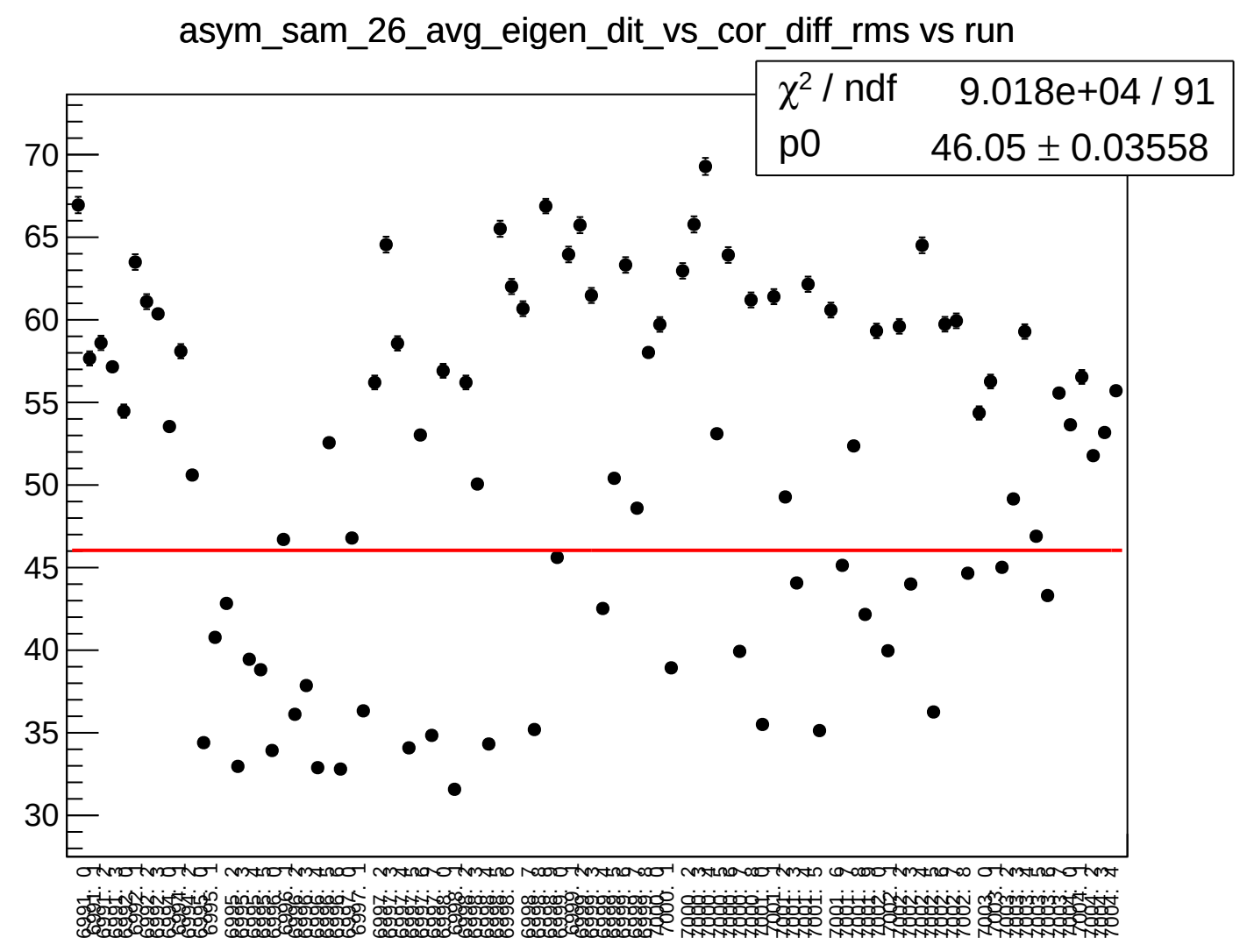

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.69 / 91
p0 −0.02509 ± 0.05031
pull
Entries 92
Mean 168.1
Std Dev 0
pull1D
Entries 92
Mean 0.01929
Std Dev 0.9872

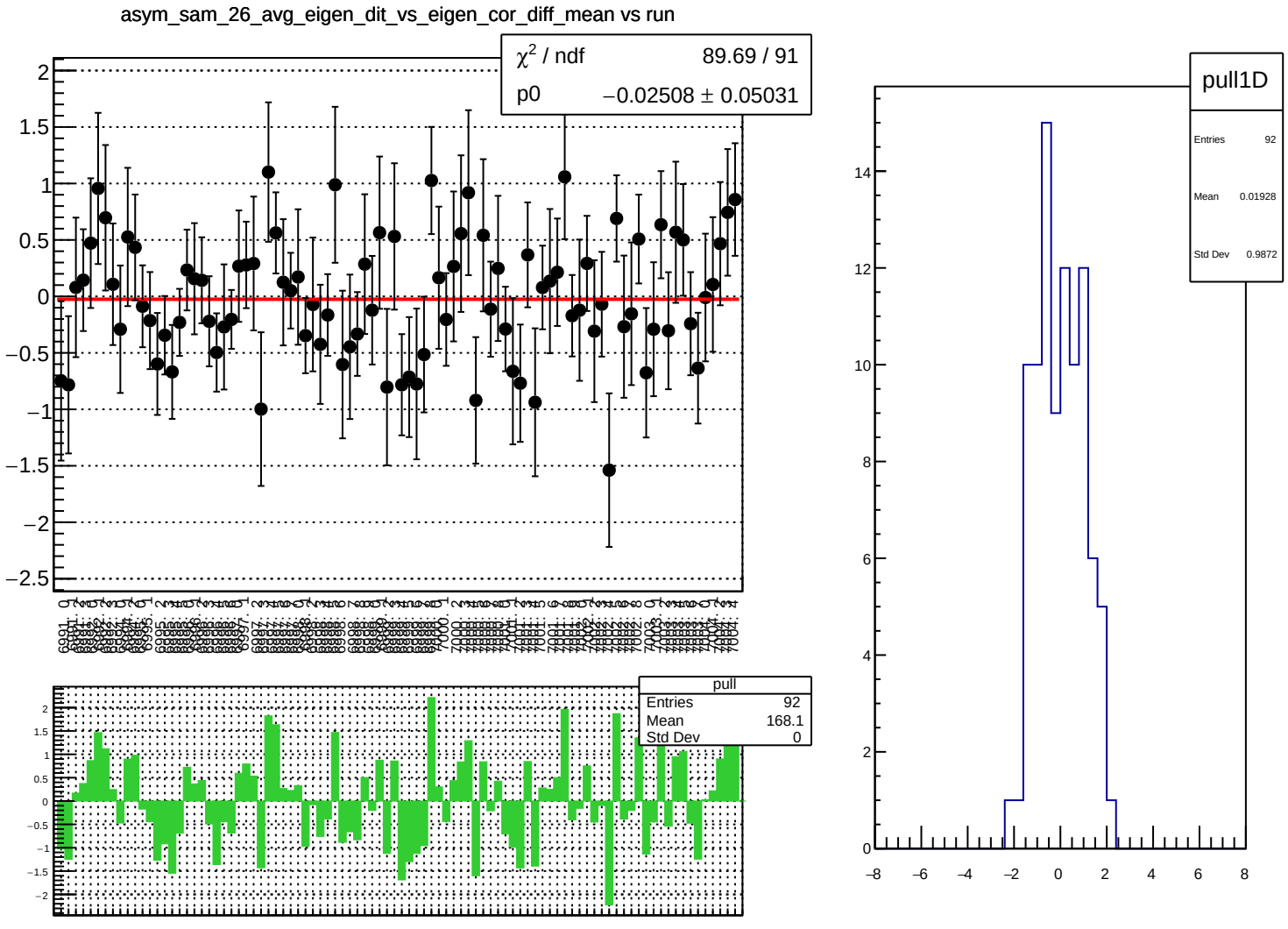

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.019e+04 / 91
p0 46.05 ± 0.03558
70
65
60
55
50
45
40
35
30

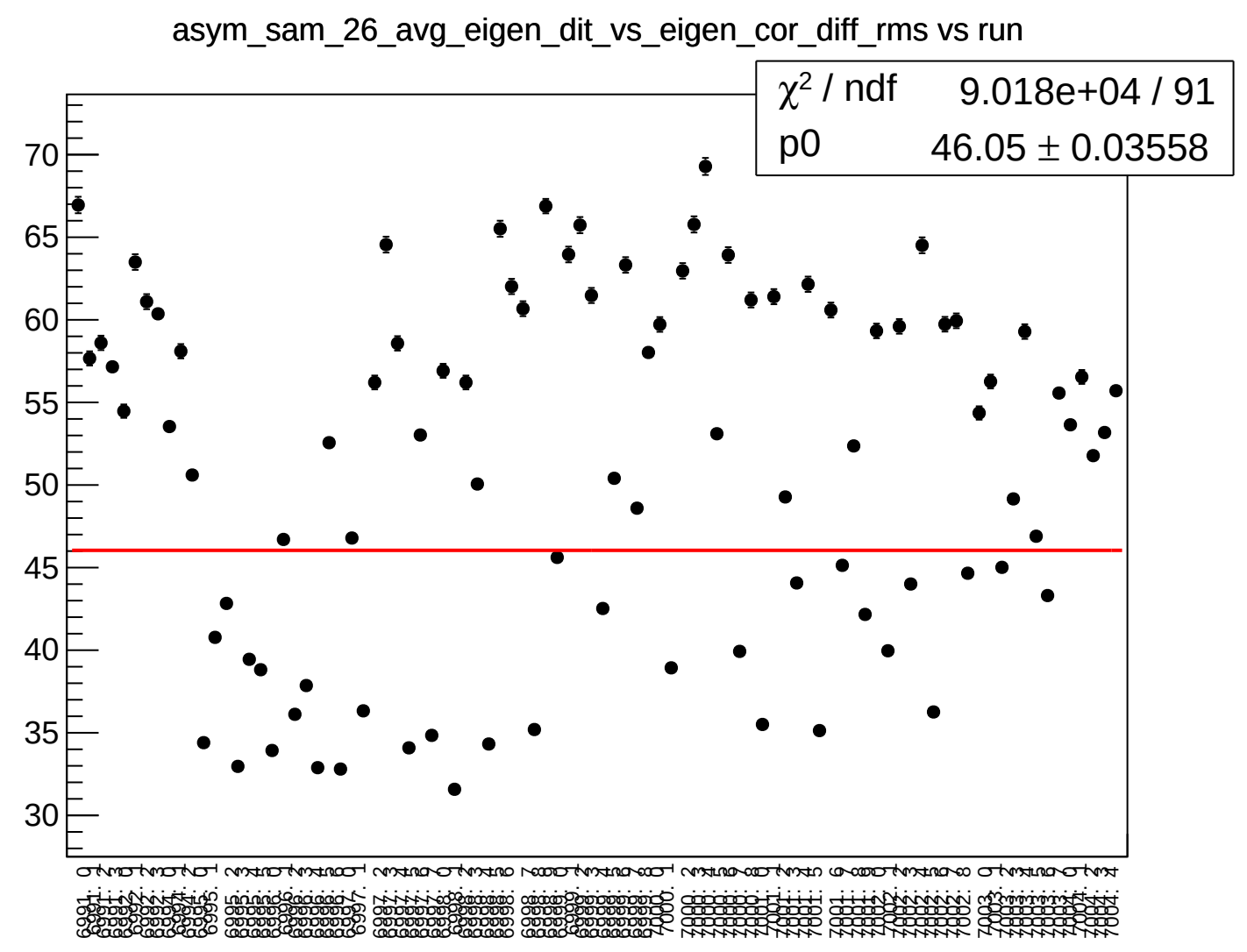

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.1 / 91
p0 2.483e−06 ± 4.768e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 92
Mean 404.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01203
Std Dev 1.114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

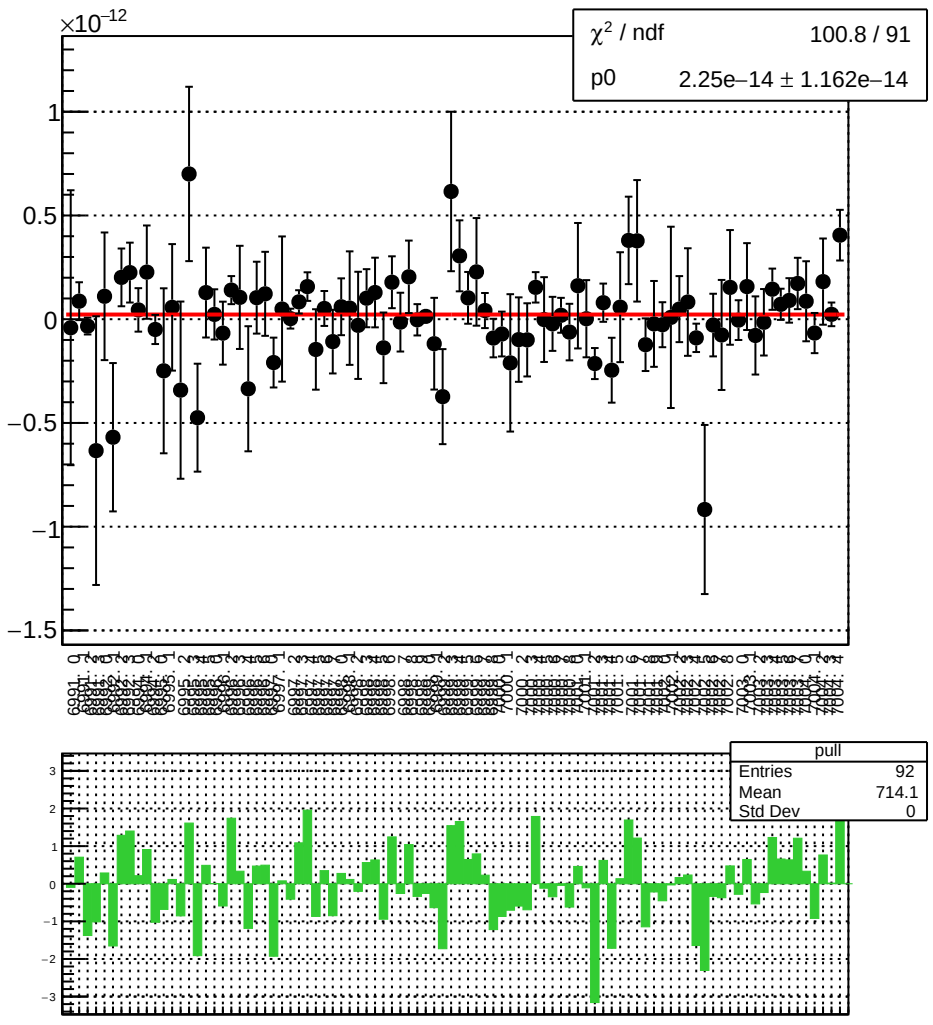

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3738 / 91
p0 0.004474 ± 3.371e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

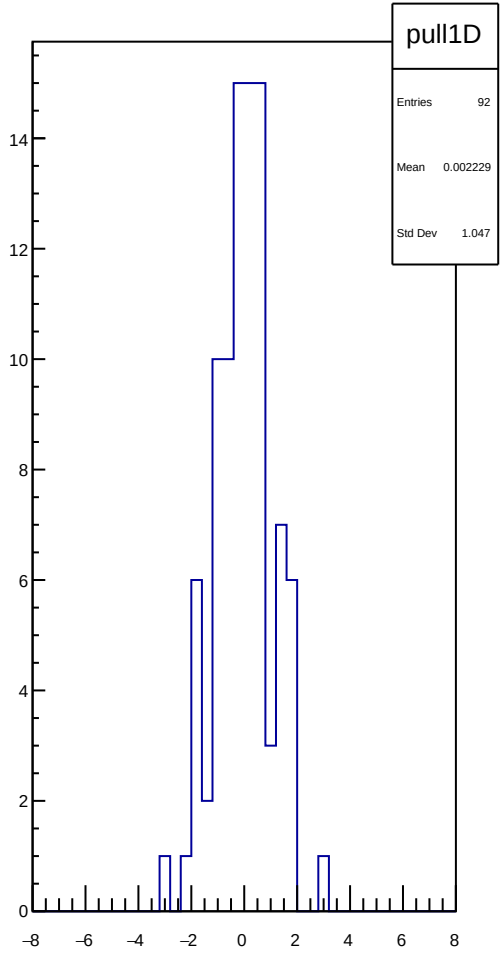

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.69 / 91
p0 −0.02508 ± 0.05031
pull
Entries 92
Mean 168.1
Std Dev 0
pull1D
Entries 92
Mean 0.01928
Std Dev 0.9872

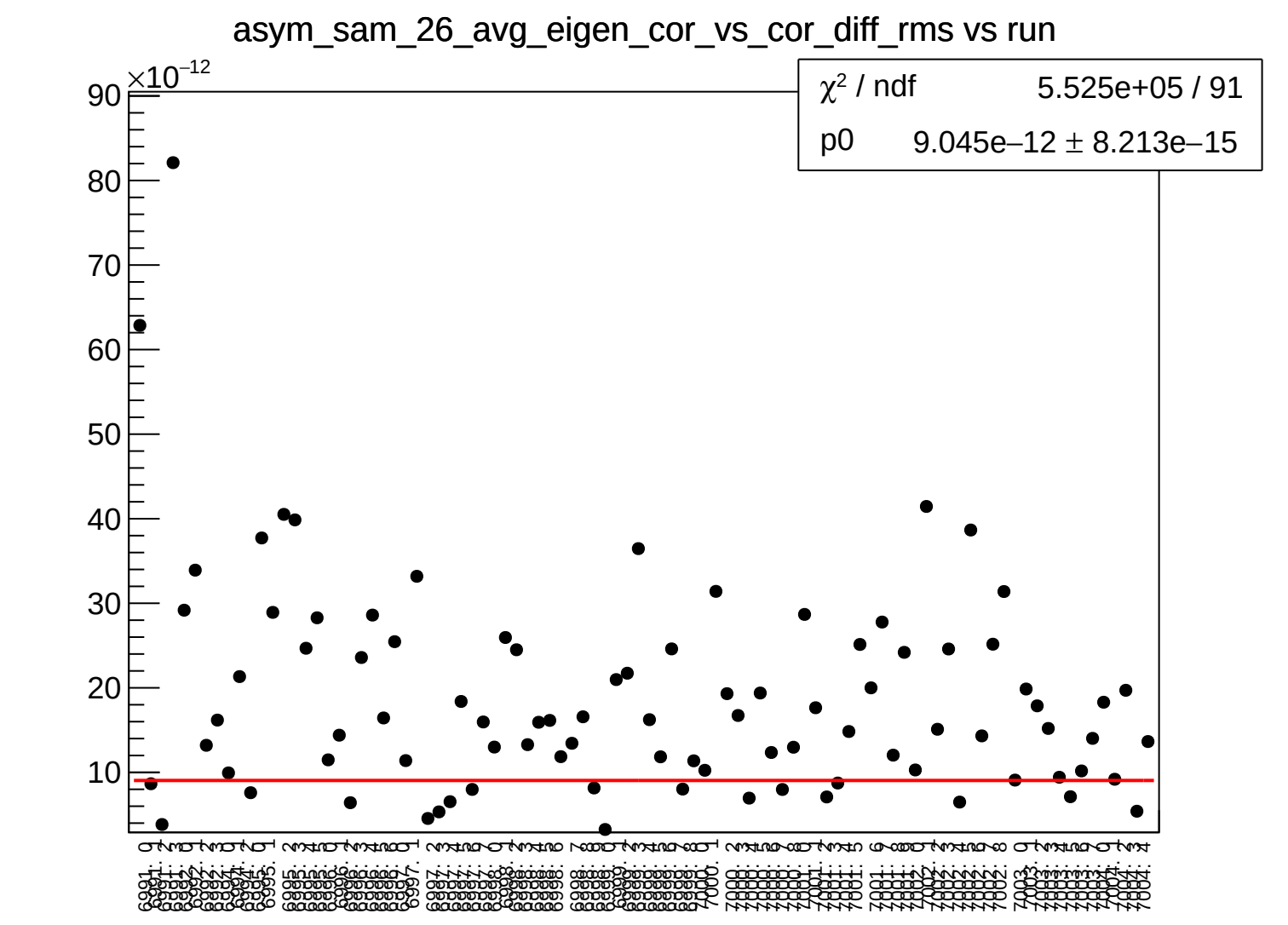

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.018e+04 / 91
p0 46.05 ± 0.03558
70
65
60
55
50
45
40
35
30

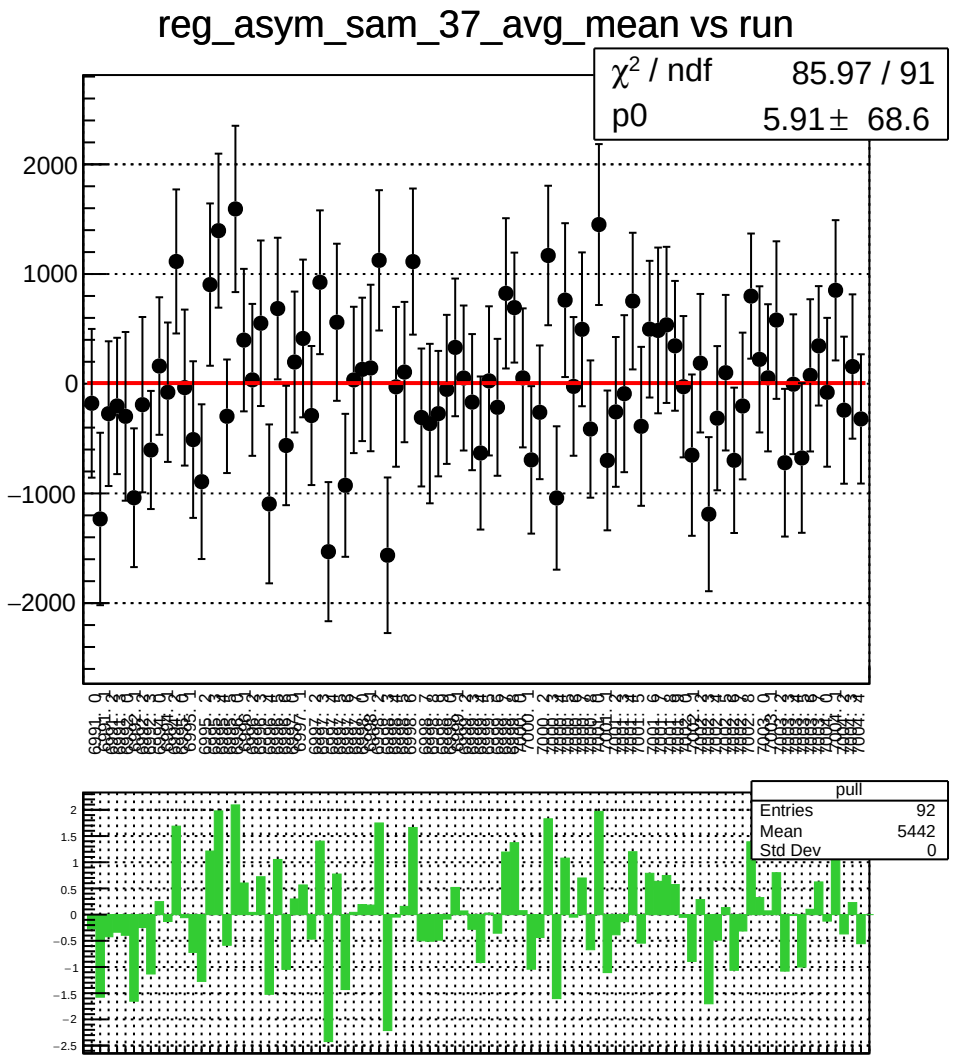

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.69 / 91
p0 −0.02508 ± 0.05031
pull
Entries 92
Mean 168.1
Std Dev 0
pull1D
Entries 92
Mean 0.01928
Std Dev 0.9872

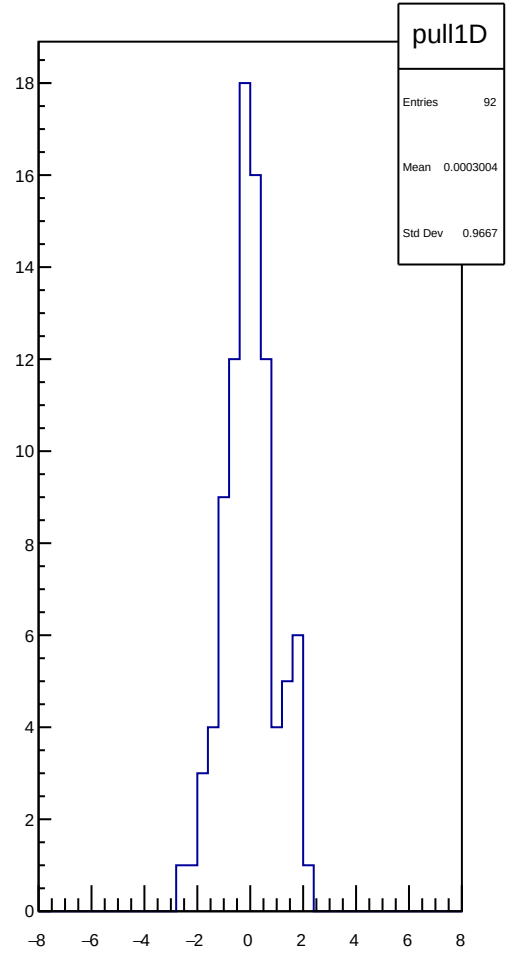

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.018e+04 / 91
p0 46.05 ± 0.03558
70
65
60
55
50
45
40
35
30

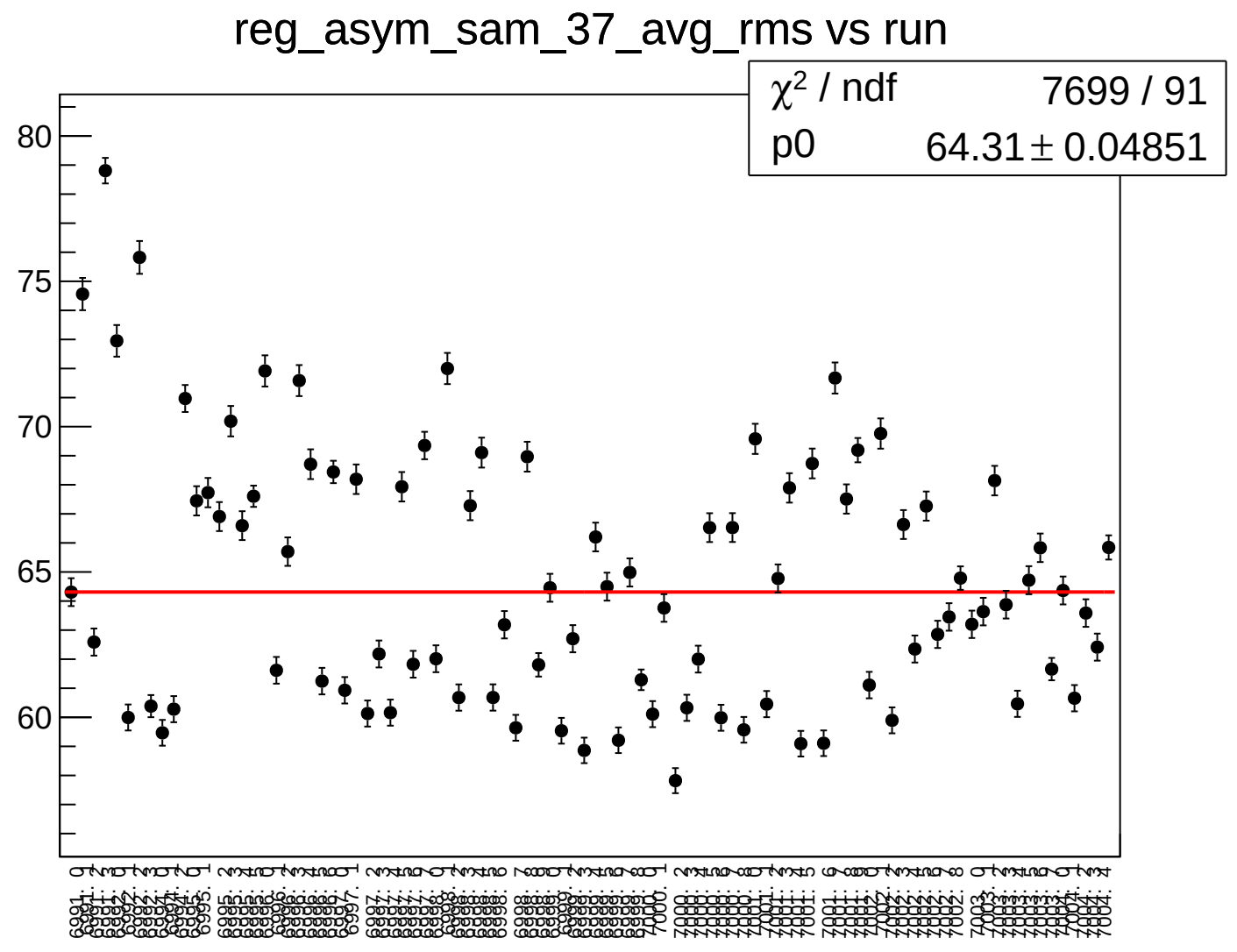

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.8 / 91
p0 2.25e−14 ± 1.162e−14
pull
Entries 92
Mean 714.1
Std Dev 0

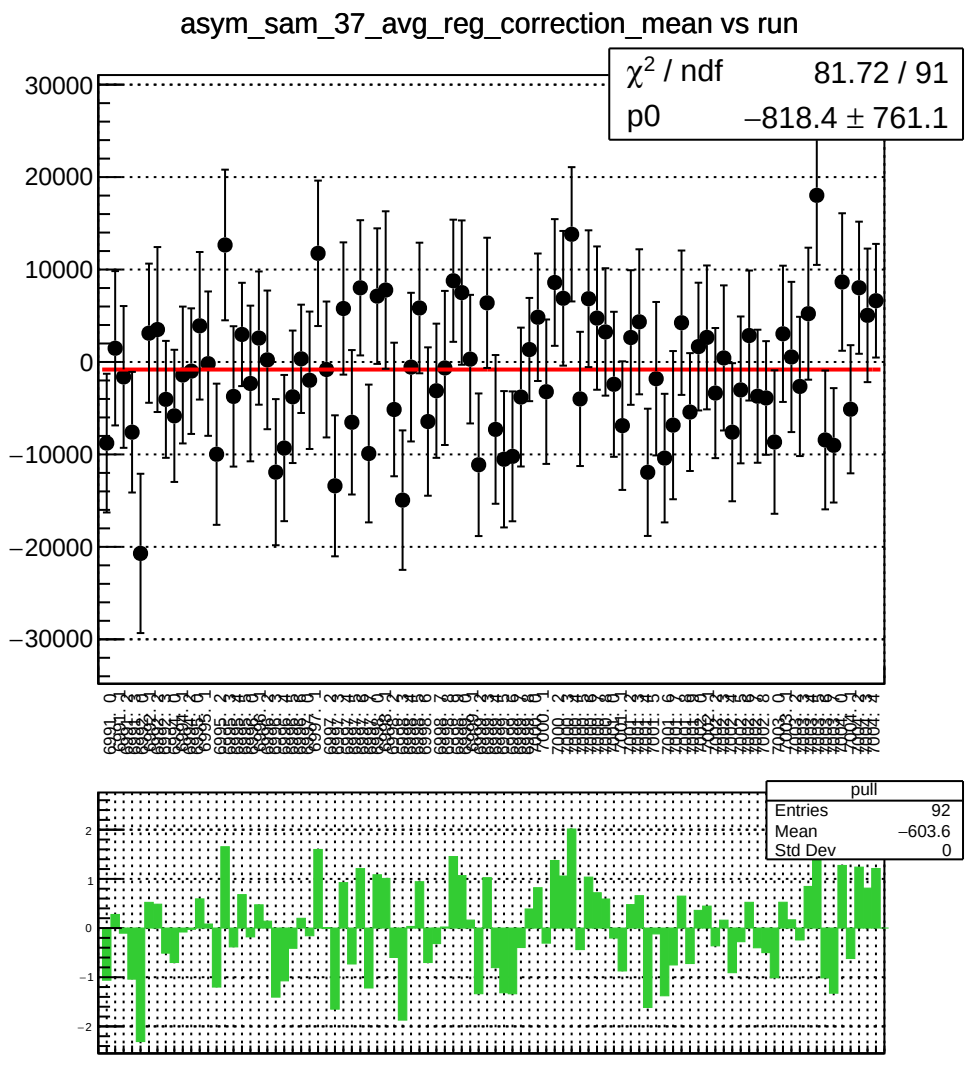

pull1D
Entries 92
Mean 0.002229
Std Dev 1.047

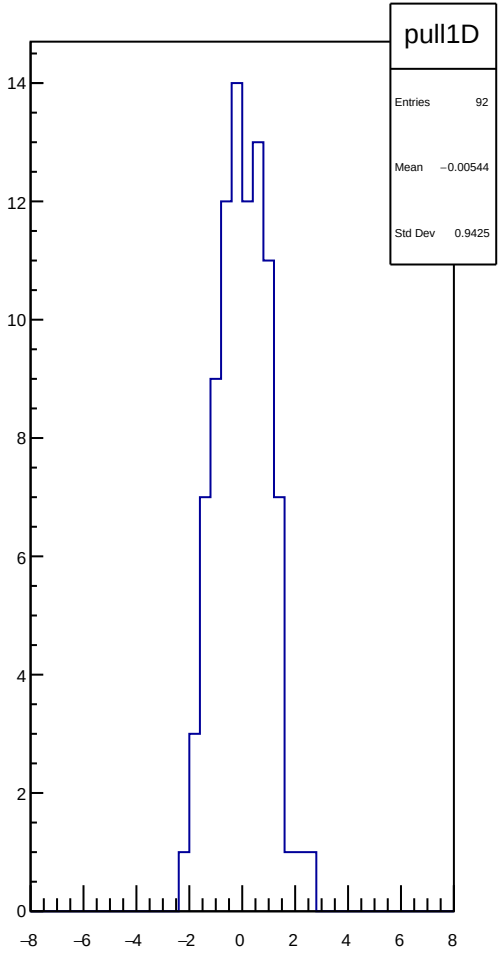

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 5.525e+05 / 91
p0 9.045e−12 ± 8.213e−15

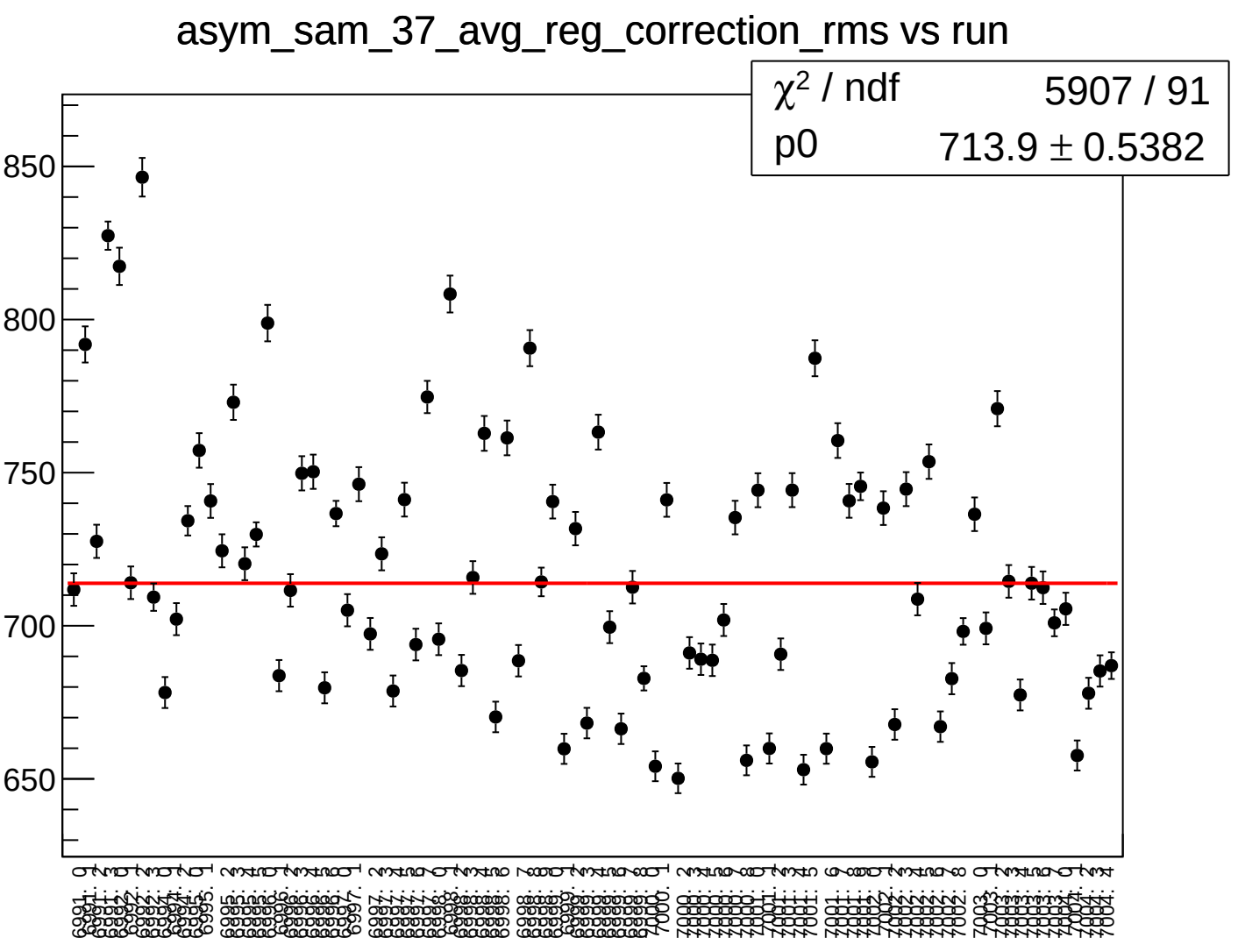

reg_asym_sam_37_avg_mean vs run
χ² / ndf 85.97 / 91
p0 5.91 ± 68.6
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 5442
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

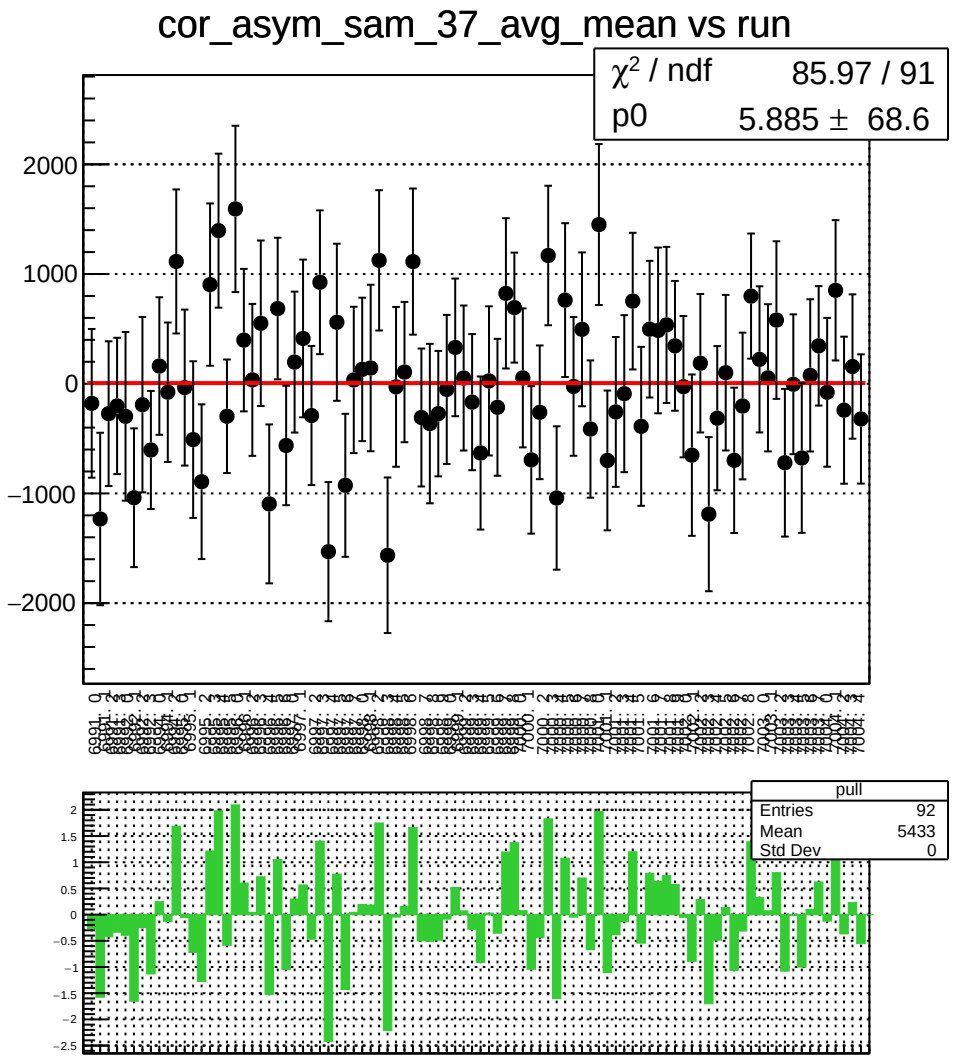

pull1D
Entries 92
Mean 0.0003004
Std Dev 0.9667
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

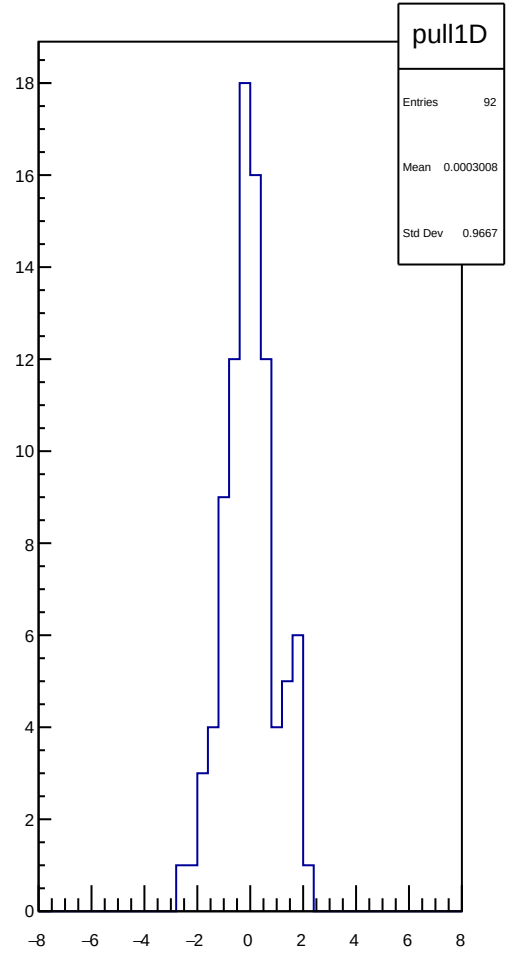

reg_asym_sam_37_avg_rms vs run
χ² / ndf 7699 / 91
p0 64.31 ± 0.04851
80
75
70
65
60

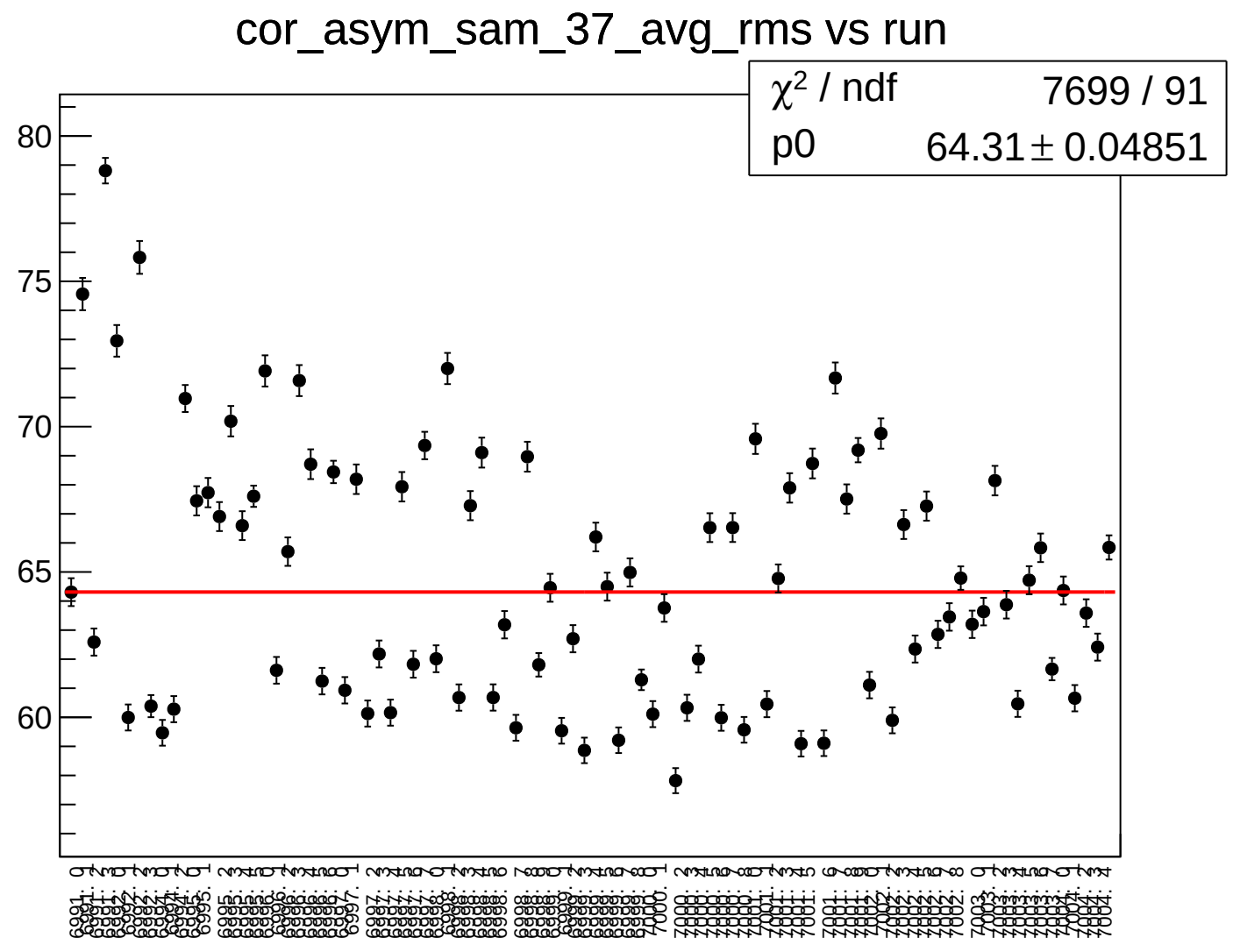

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 81.72 / 91
p0 −818.4 ± 761.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −603.6
Std Dev 0
2
1
0
−1
−2

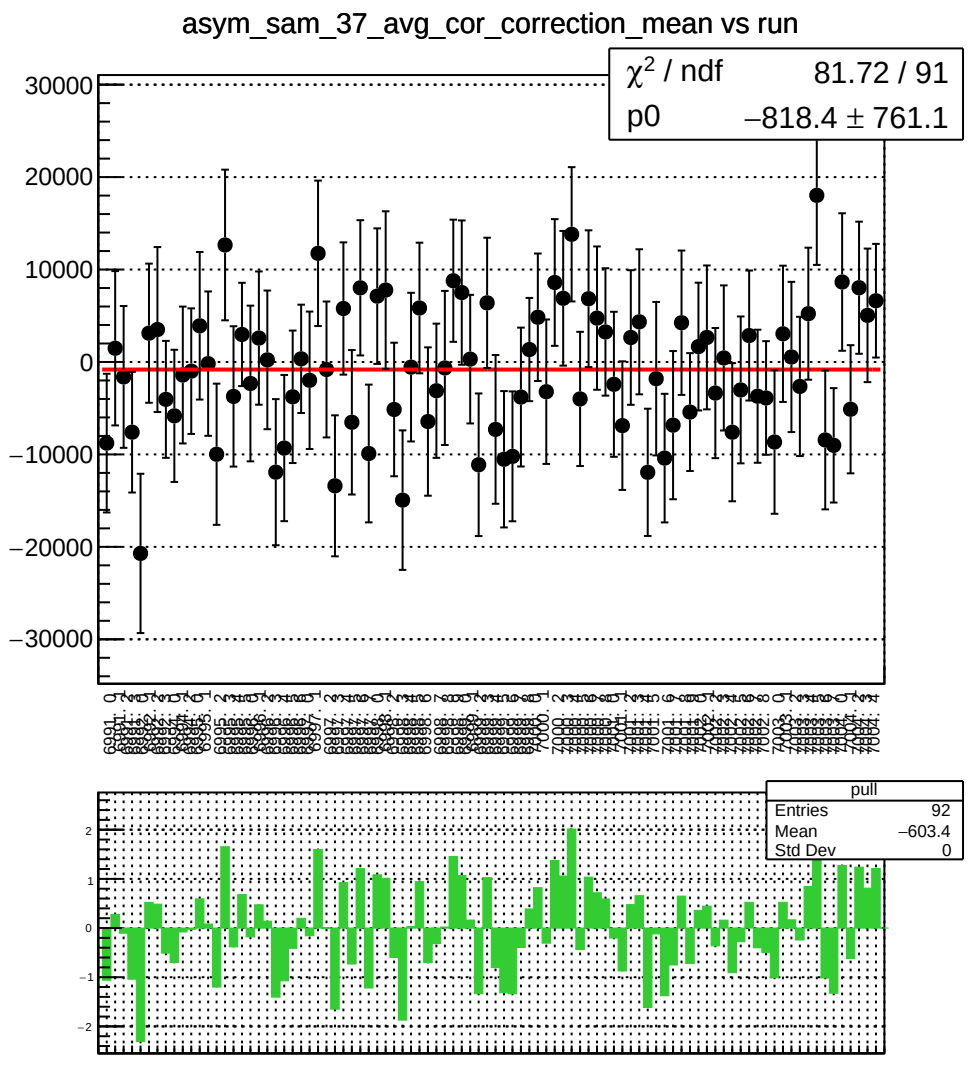

pull1D
Entries 92
Mean −0.00544
Std Dev 0.9425
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

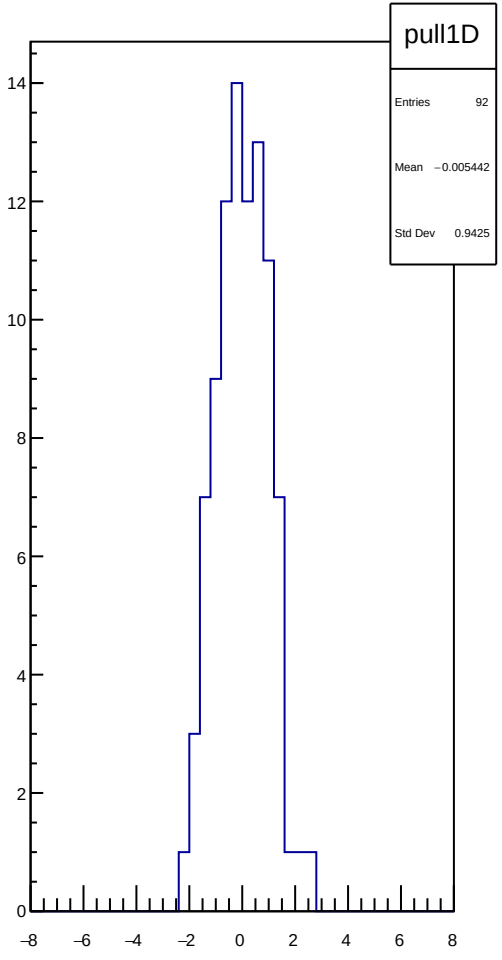

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 5907 / 91
p0 713.9 ± 0.5382
850
800
750
700
650

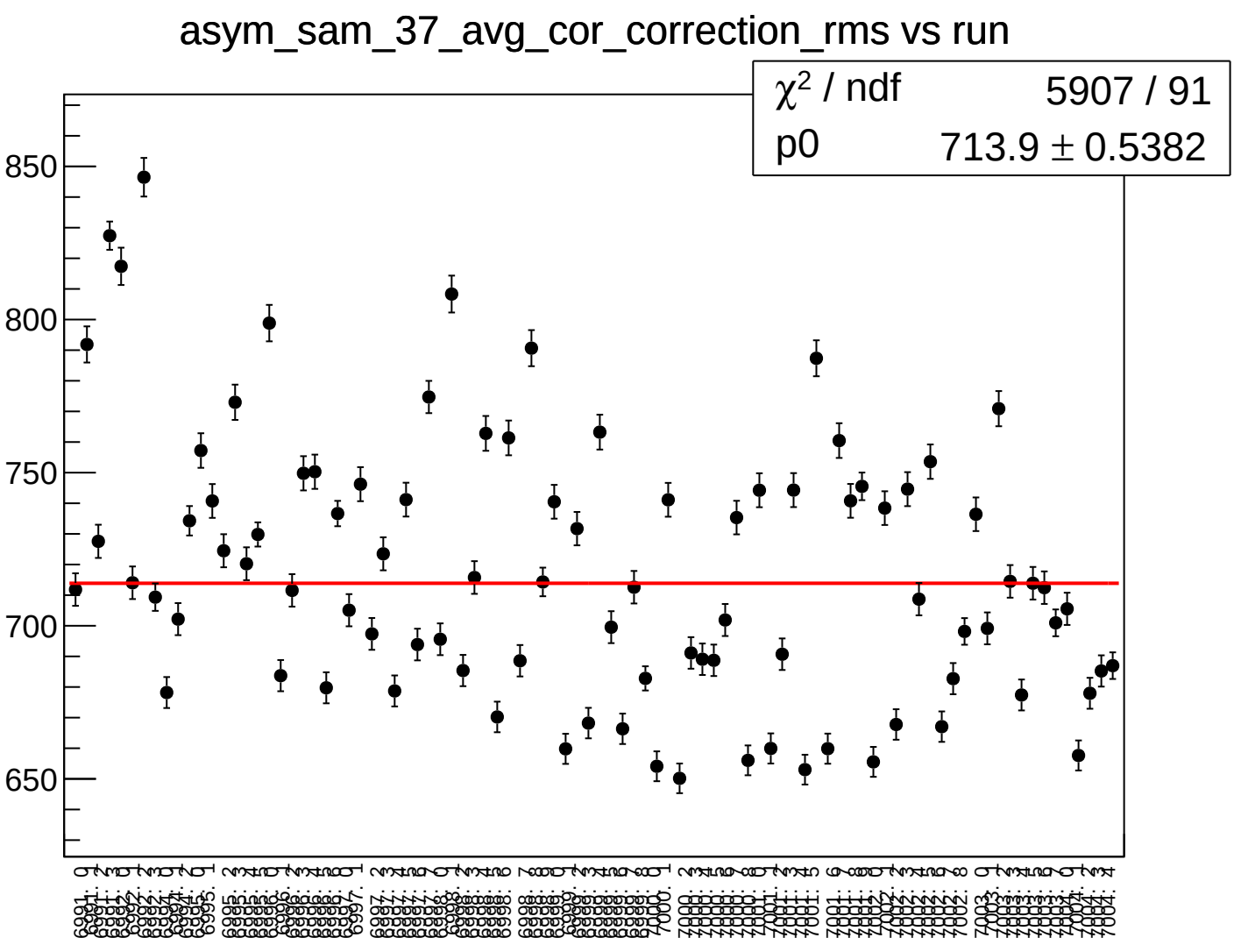

cor_asym_sam_37_avg_mean vs run
χ² / ndf 85.97 / 91
p0 5.885 ± 68.6
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 5433
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

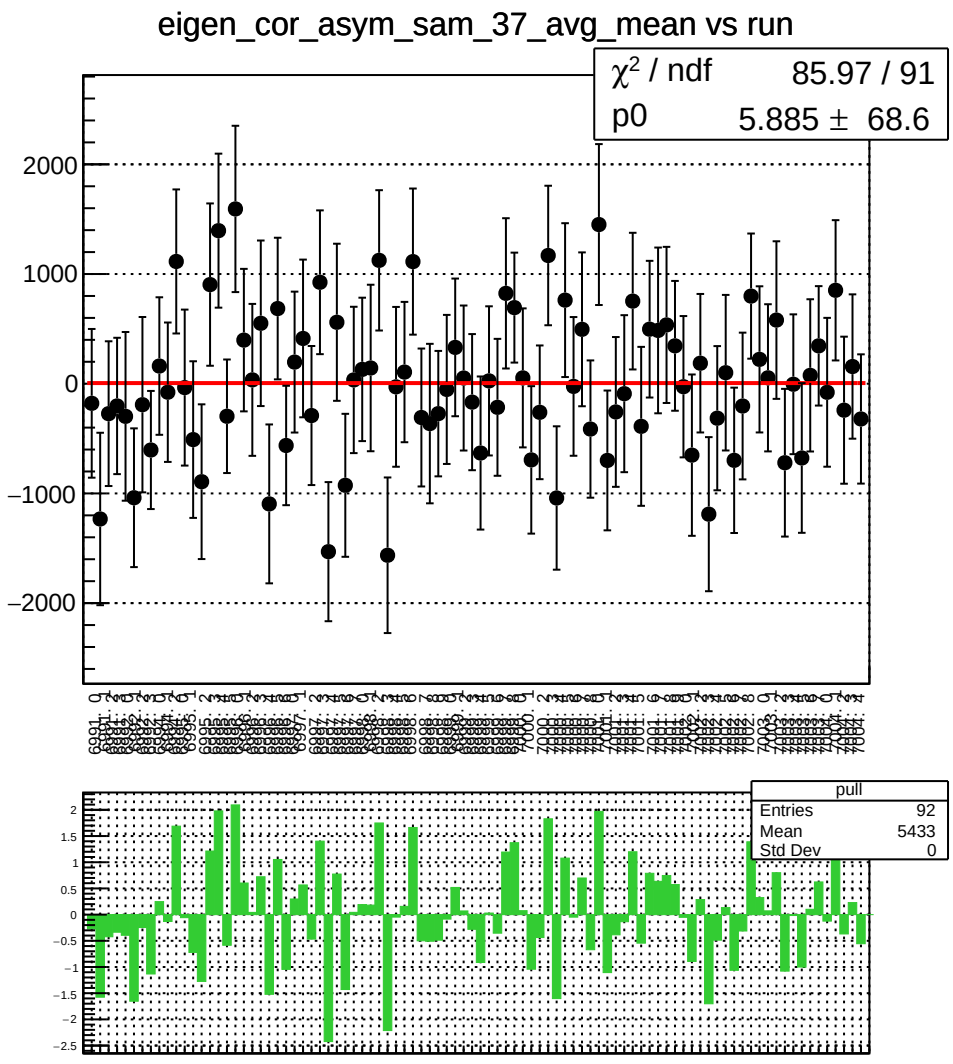

pull1D
Entries 92
Mean 0.0003008
Std Dev 0.9667
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

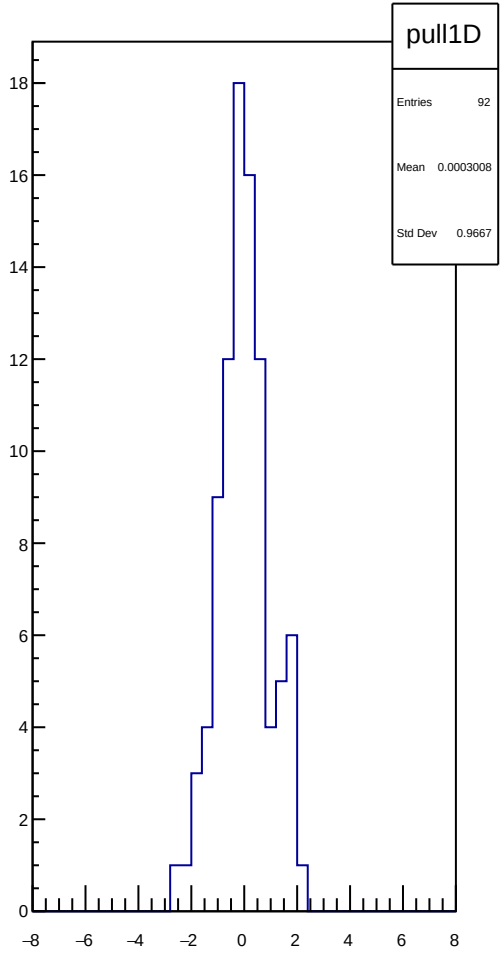

cor_asym_sam_37_avg_rms vs run
χ² / ndf 7699 / 91
p0 64.31 ± 0.04851
80
75
70
65
60

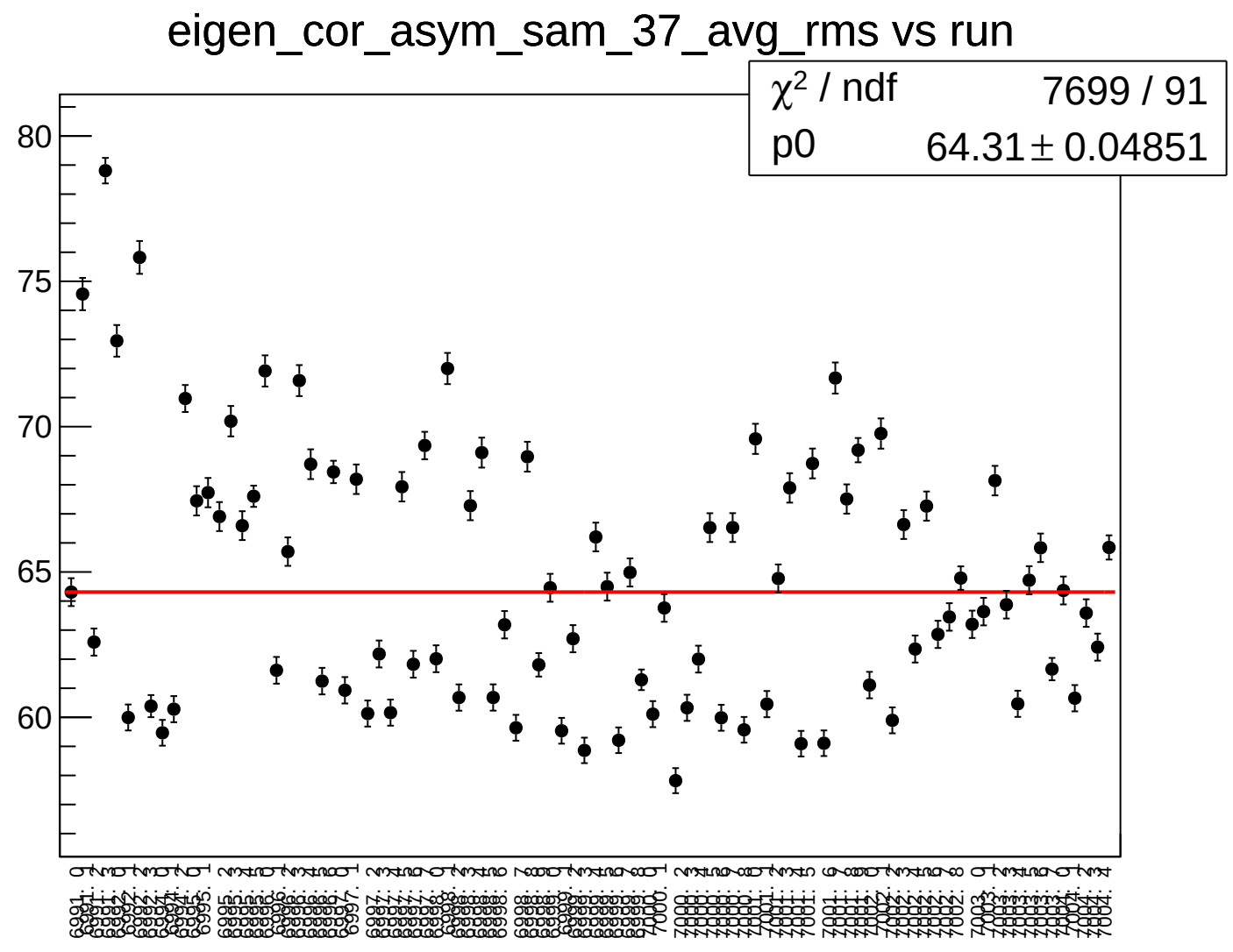

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 81.72 / 91
p0 −818.4 ± 761.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −603.4
Std Dev 0
2
1
0
−1
−2

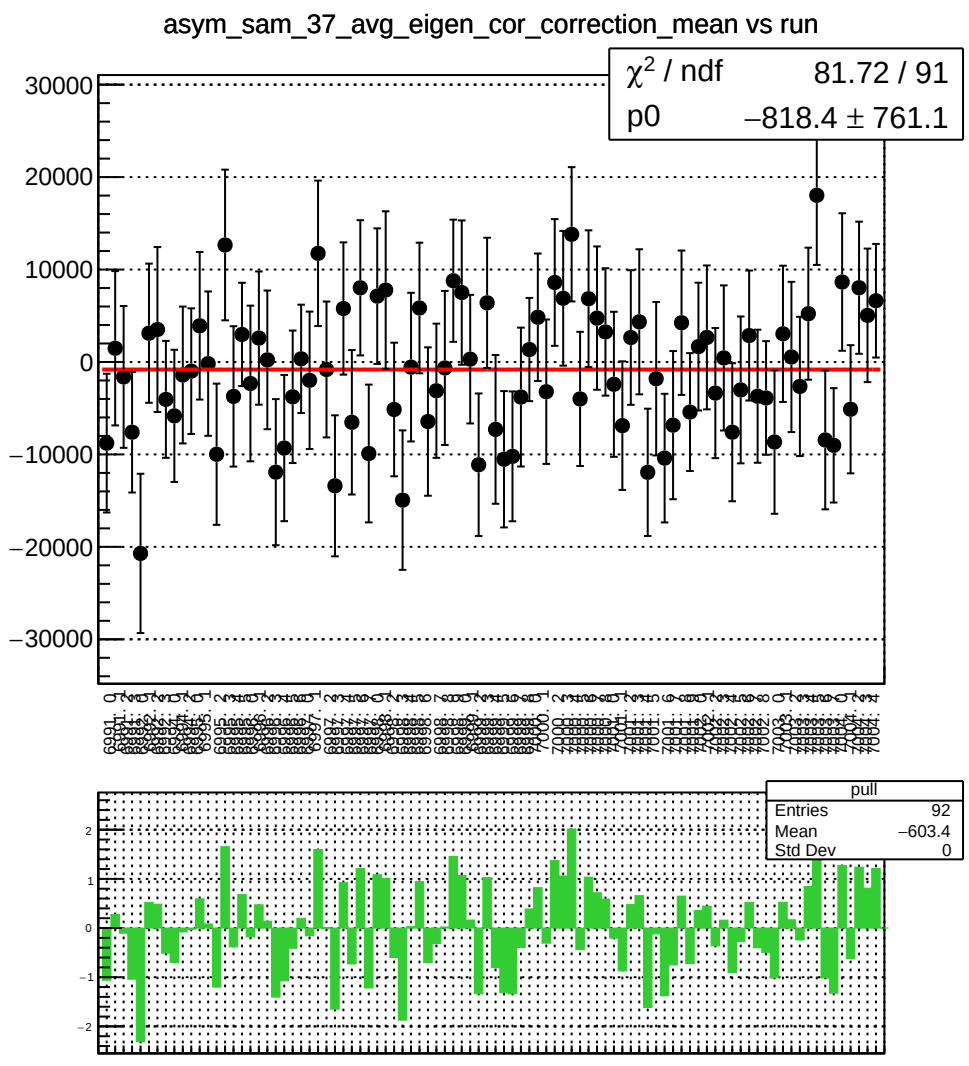

pull1D
Entries 92
Mean −0.005442
Std Dev 0.9425
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

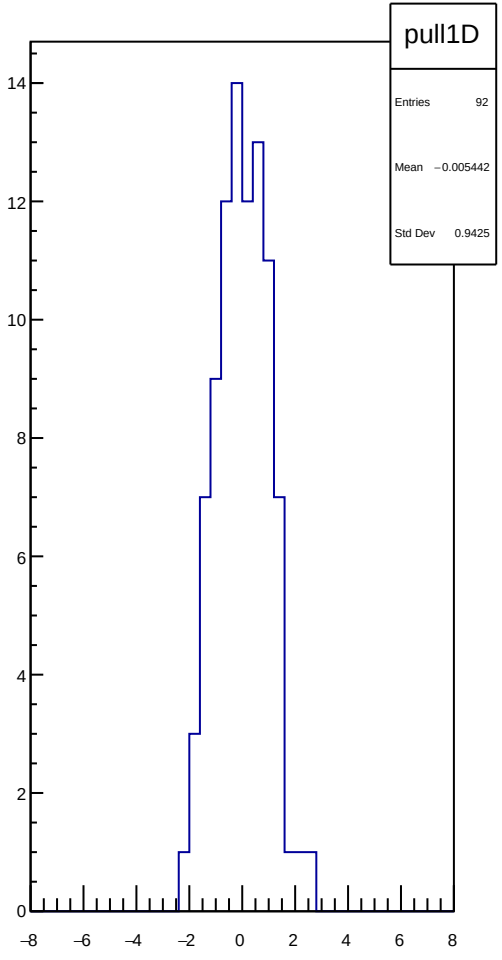

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 5907 / 91
p0 713.9 ± 0.5382
850
800
750
700
650

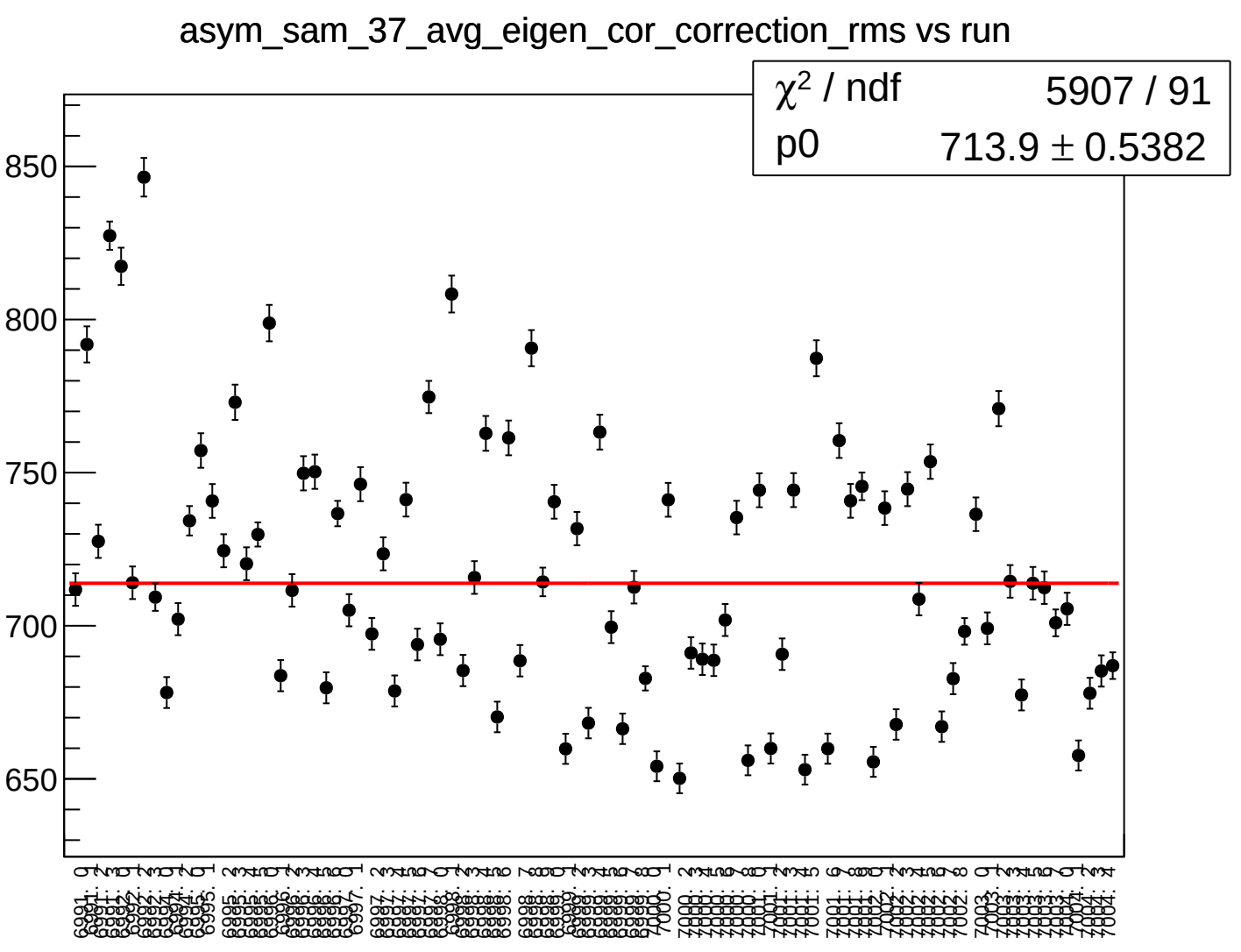

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 85.97 / 91
p0 5.885 ± 68.6
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 5433
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

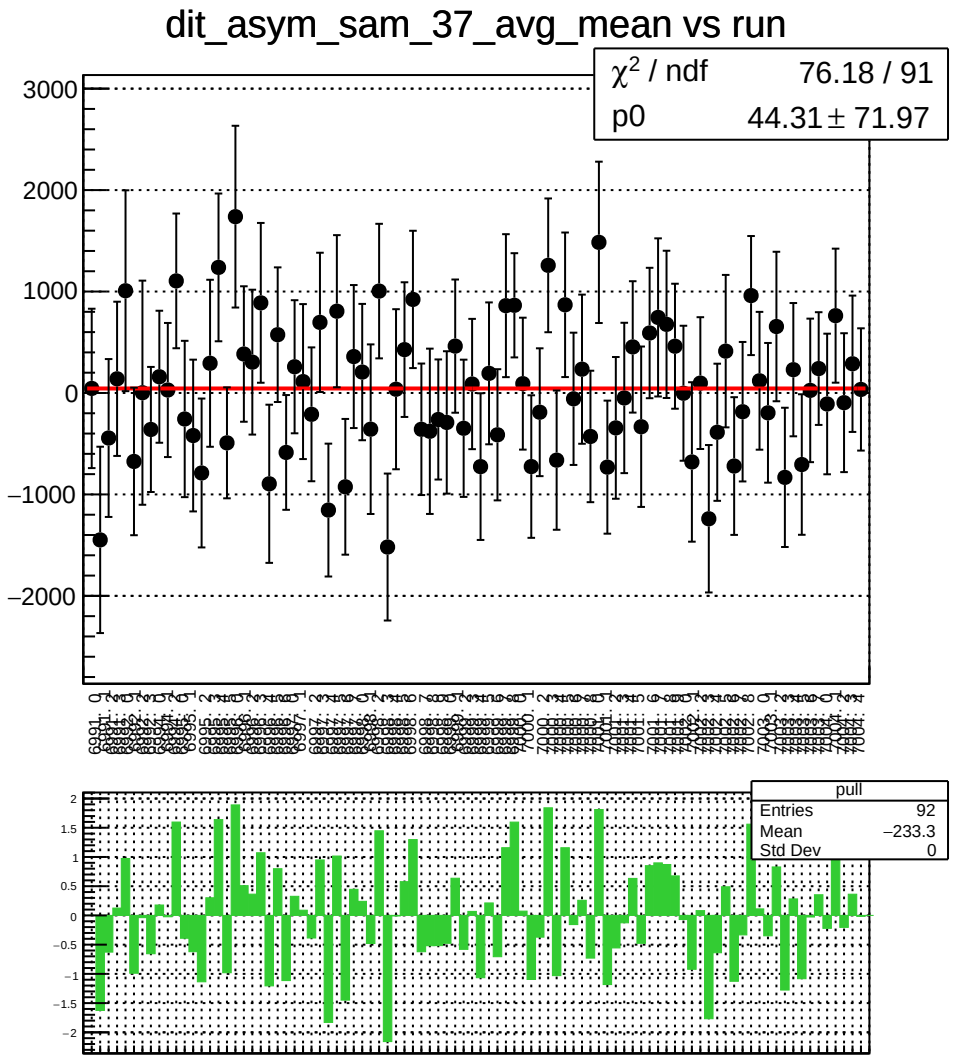

pull1D
Entries 92
Mean 0.0003008
Std Dev 0.9667
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

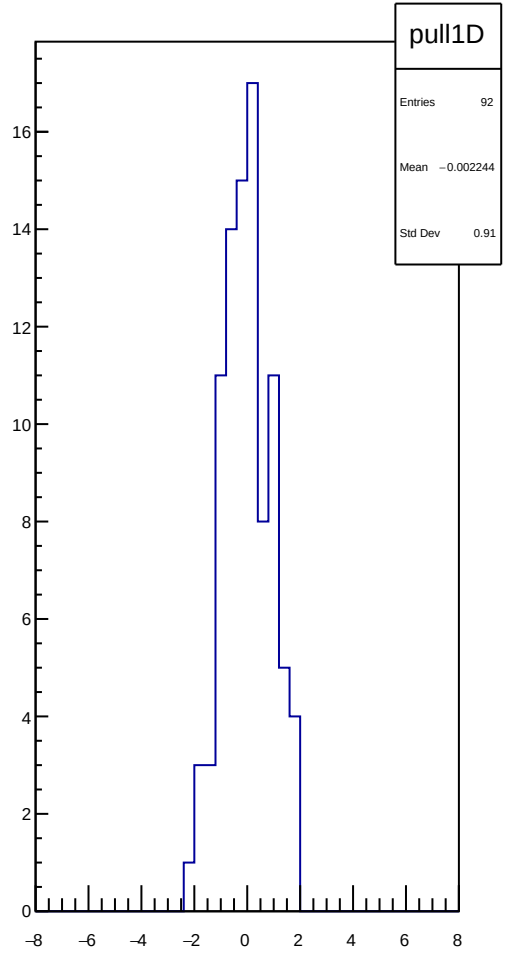

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 7699 / 91
p0 64.31 ± 0.04851
80
75
70
65
60

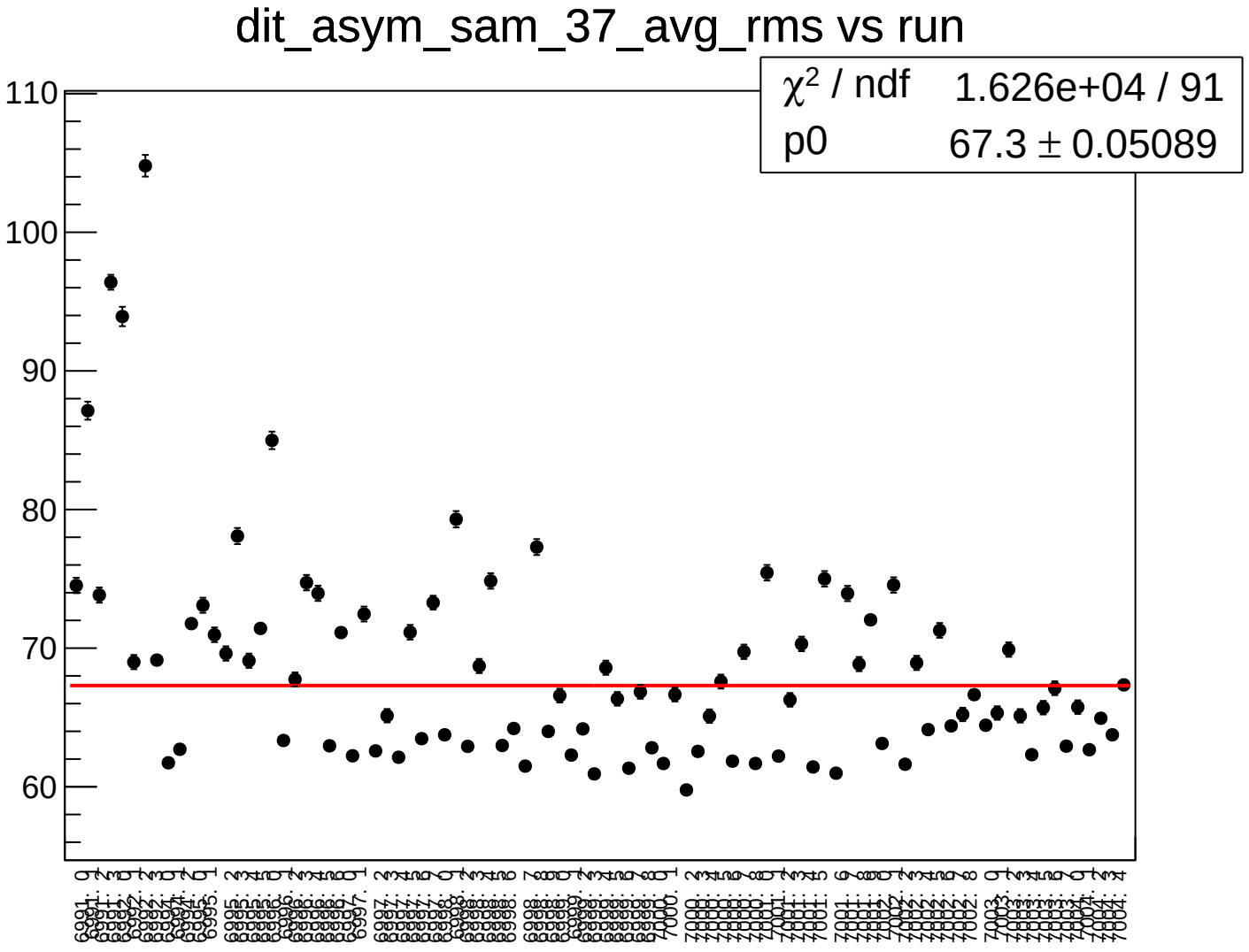

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.72 / 91
p0 −818.4 ± 761.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −603.4
Std Dev 0
2
1
0
−1
−2

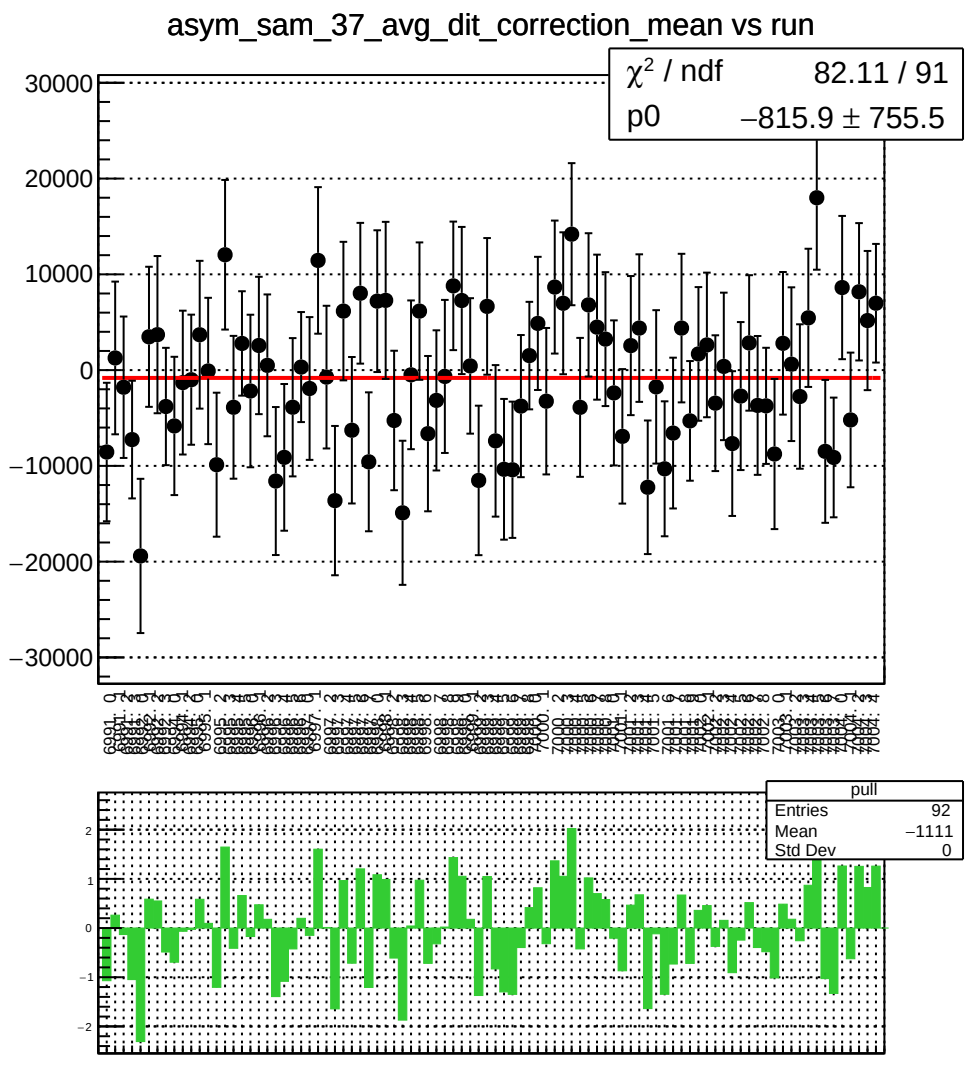

pull1D
Entries 92
Mean −0.005442
Std Dev 0.9425
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

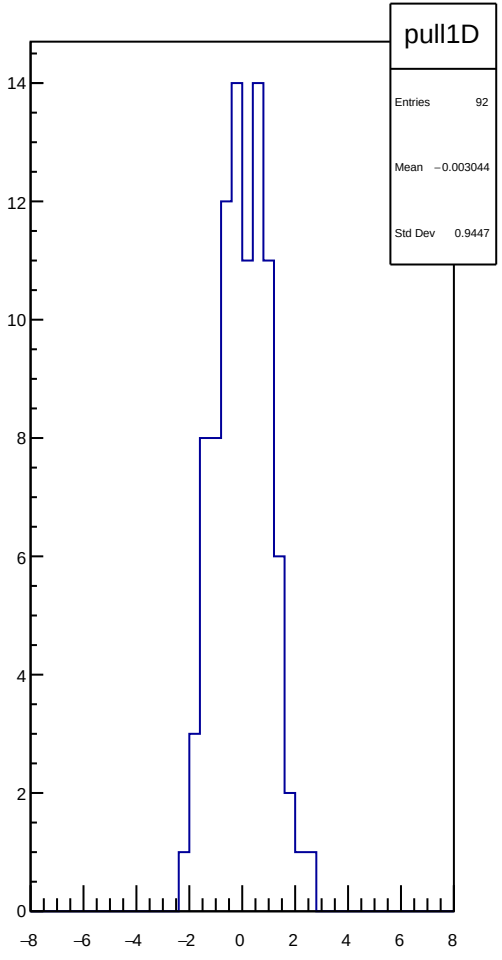

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 5907 / 91
p0 713.9 ± 0.5382
850
800
750
700
650

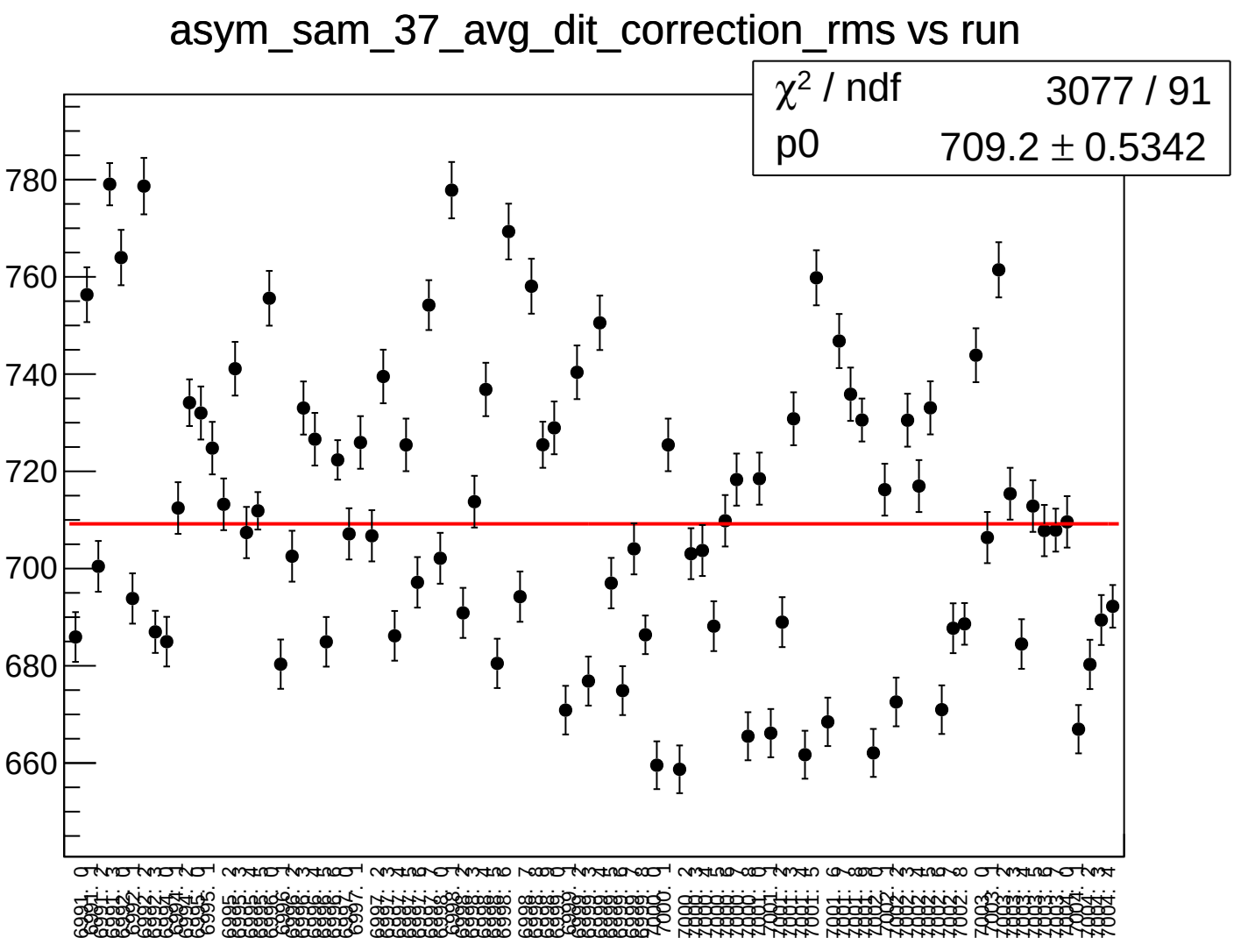

dit_asym_sam_37_avg_mean vs run
χ² / ndf 76.18 / 91
p0 44.31 ± 71.97
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −233.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

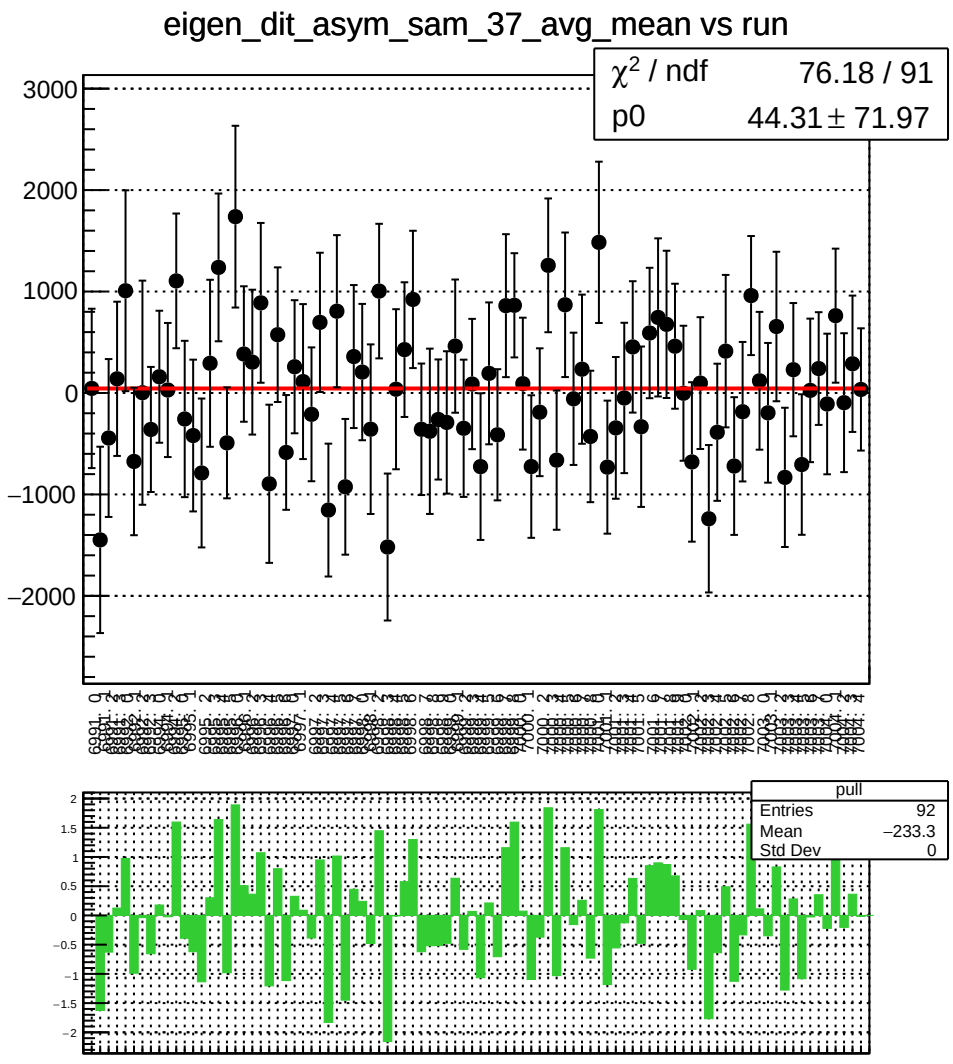

pull1D
Entries 92
Mean −0.002244
Std Dev 0.91
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

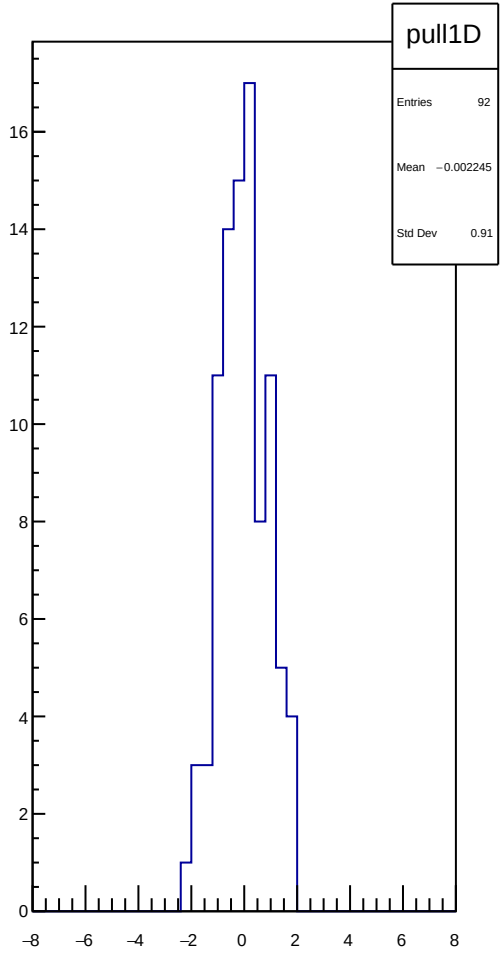

dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.626e+04 / 91
p0 67.3 ± 0.05089
110
100
90
80
70
60

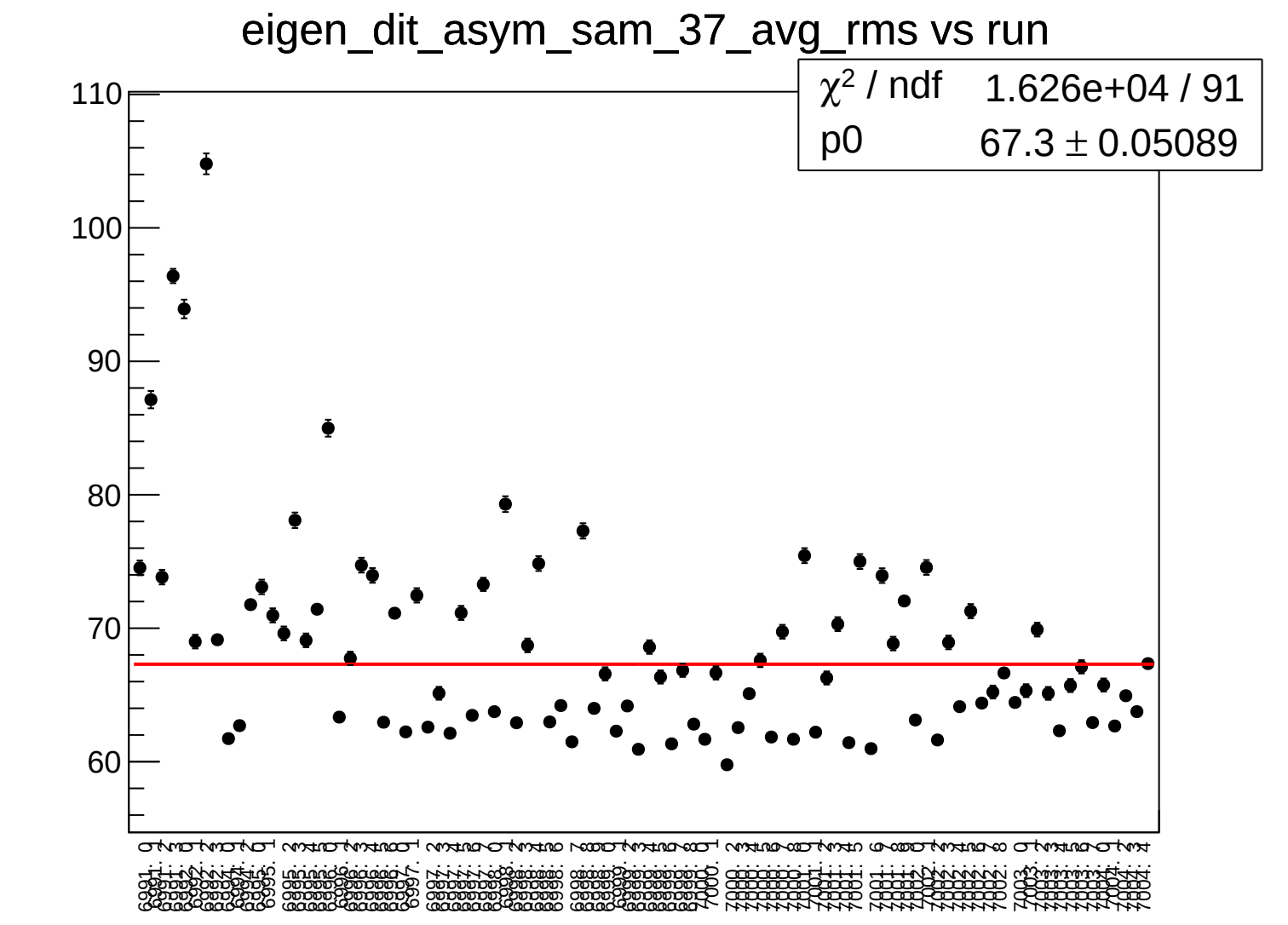

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 82.11 / 91
p0 −815.9 ± 755.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1111
Std Dev 0
2
1
0
−1
−2

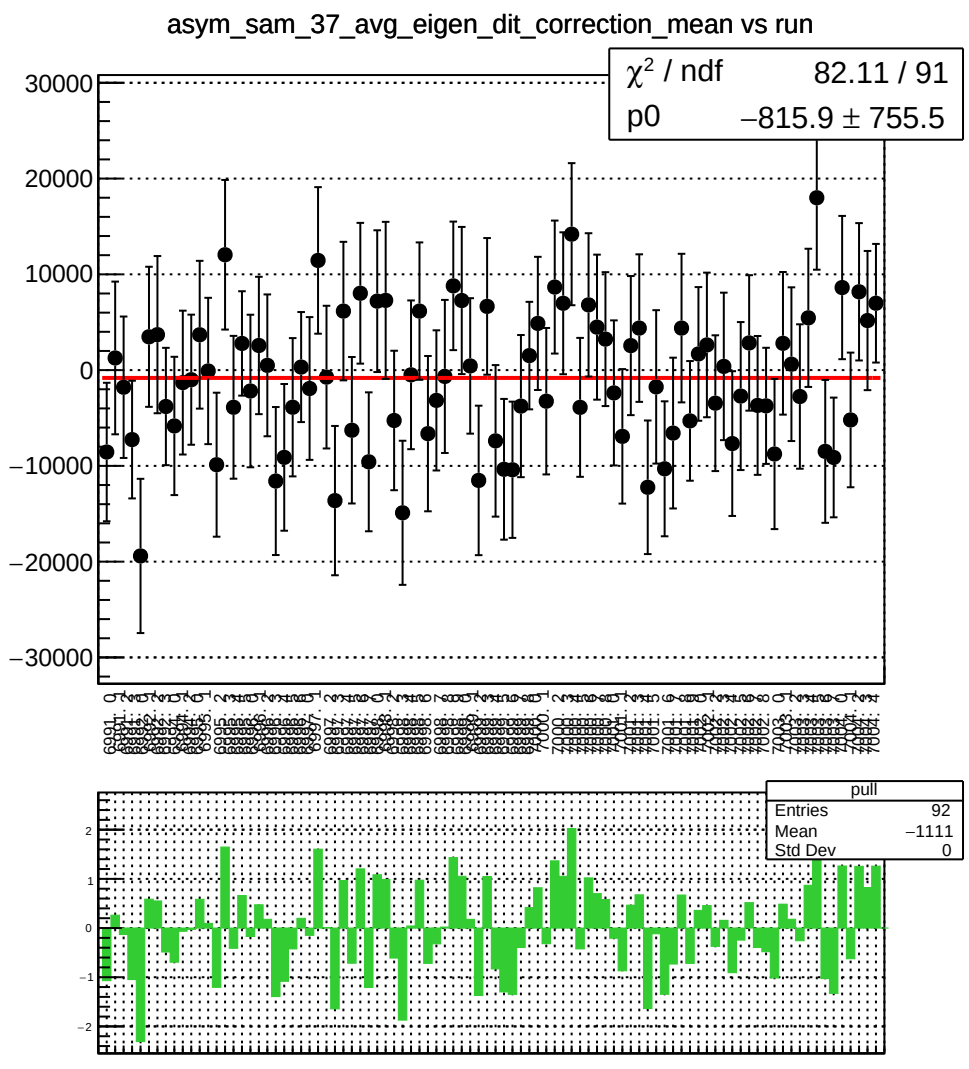

pull1D
Entries 92
Mean −0.003044
Std Dev 0.9447
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

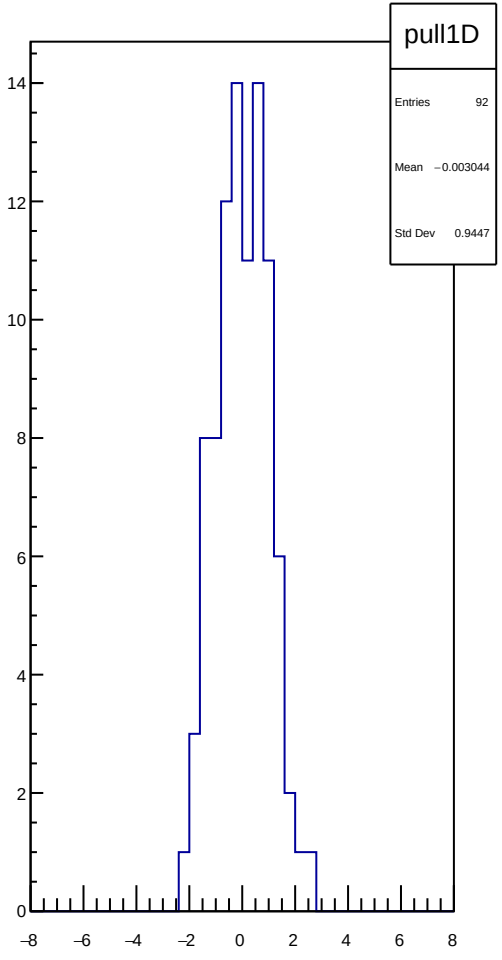

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3077 / 91
p0 709.2 ± 0.5342
780
760
740
720
700
680
660

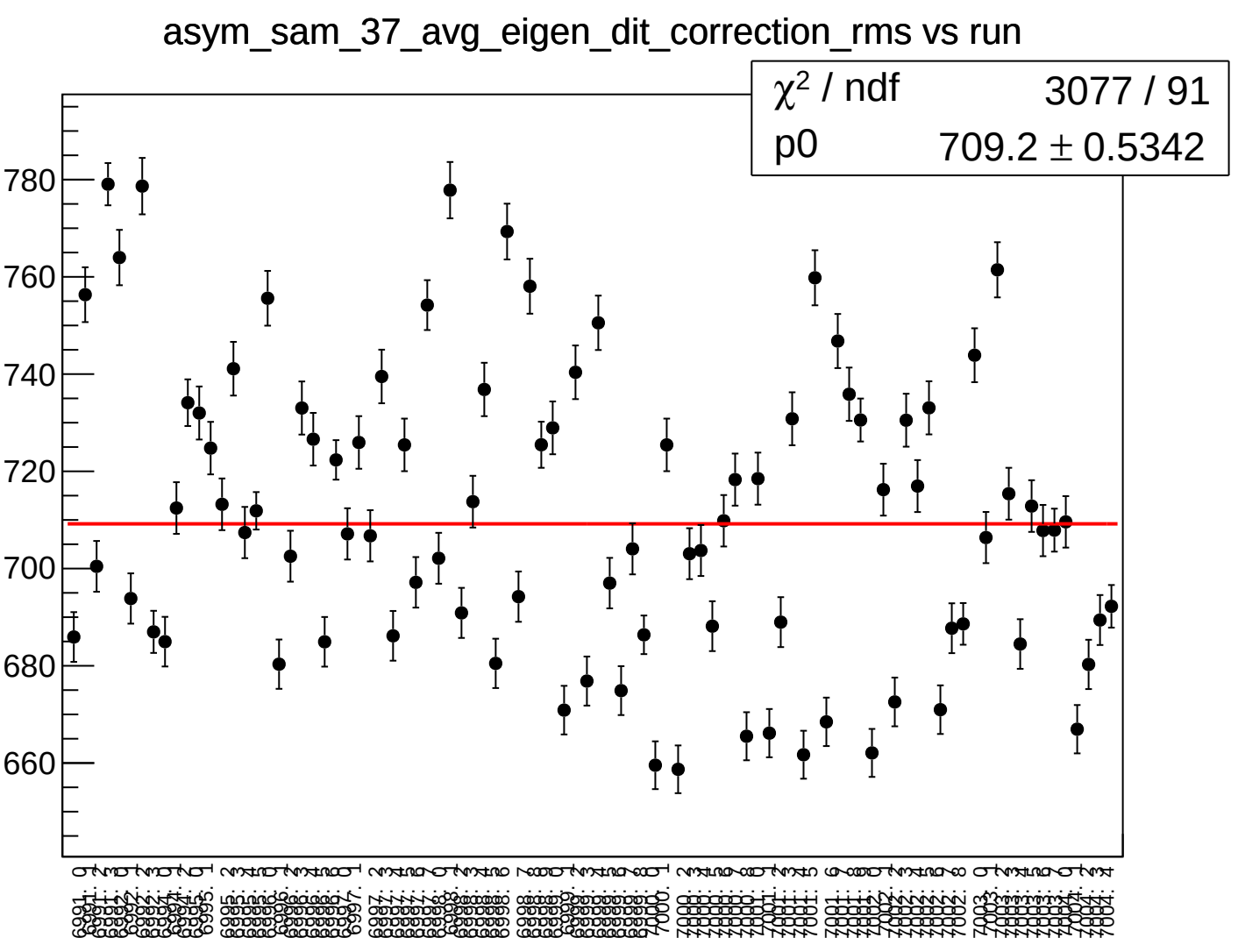

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 76.18 / 91
p0 44.31 ± 71.97
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −233.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

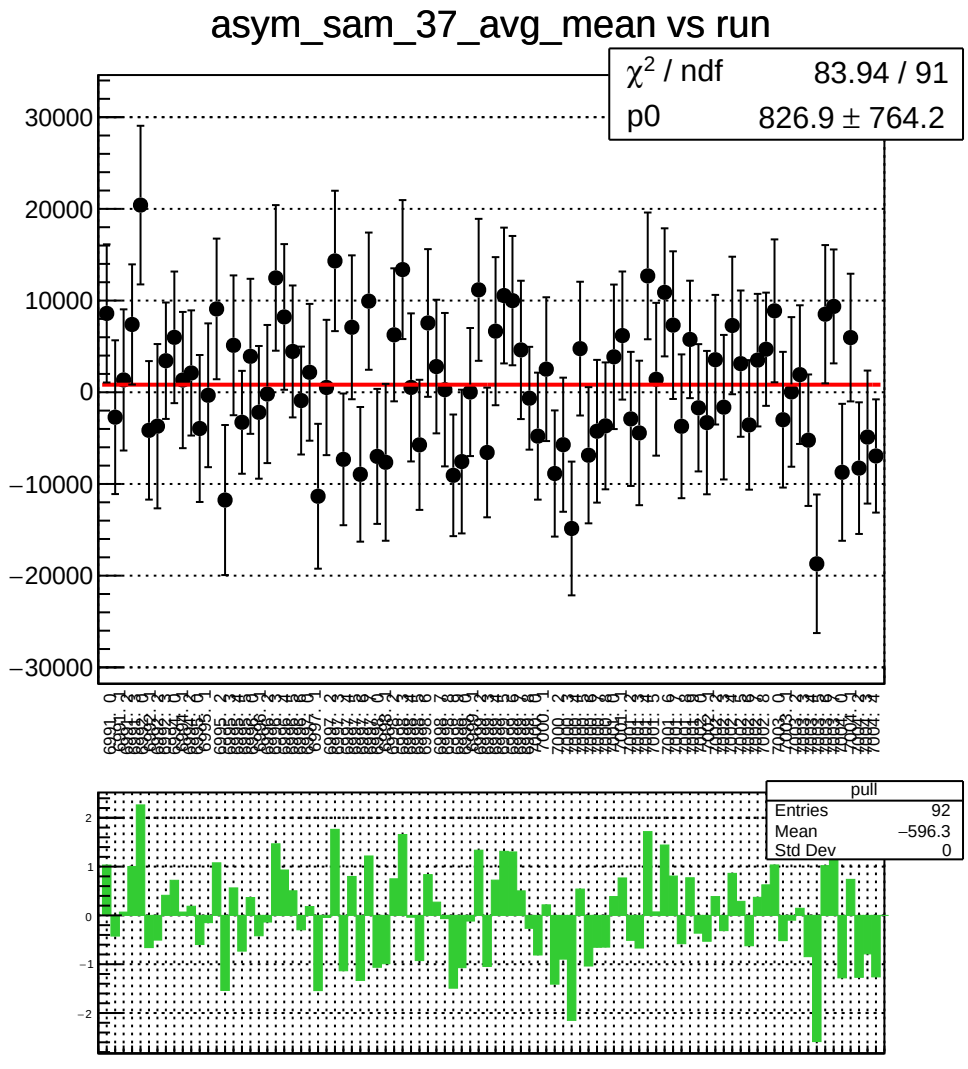

pull1D
Entries 92
Mean −0.002245
Std Dev 0.91
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

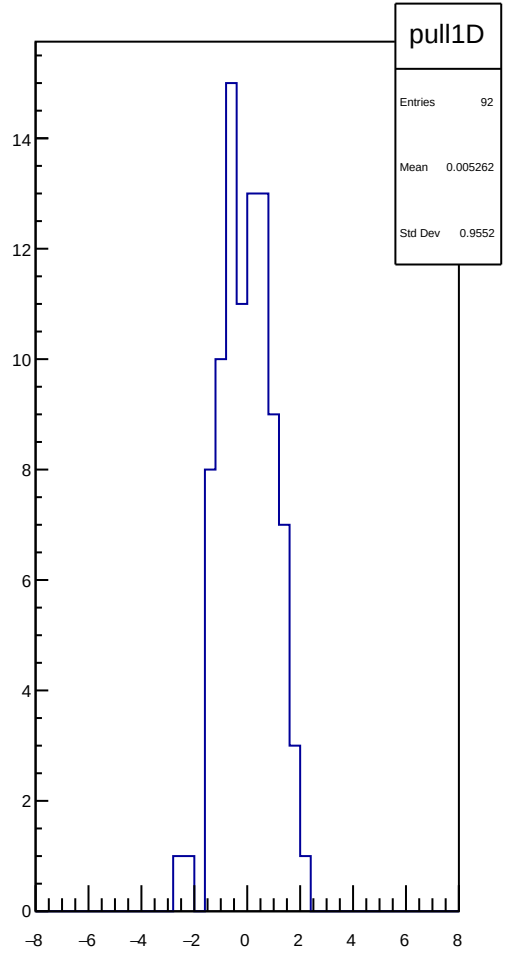

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 1.626e+04 / 91
p0 67.3 ± 0.05089
110
100
90
80
70
60

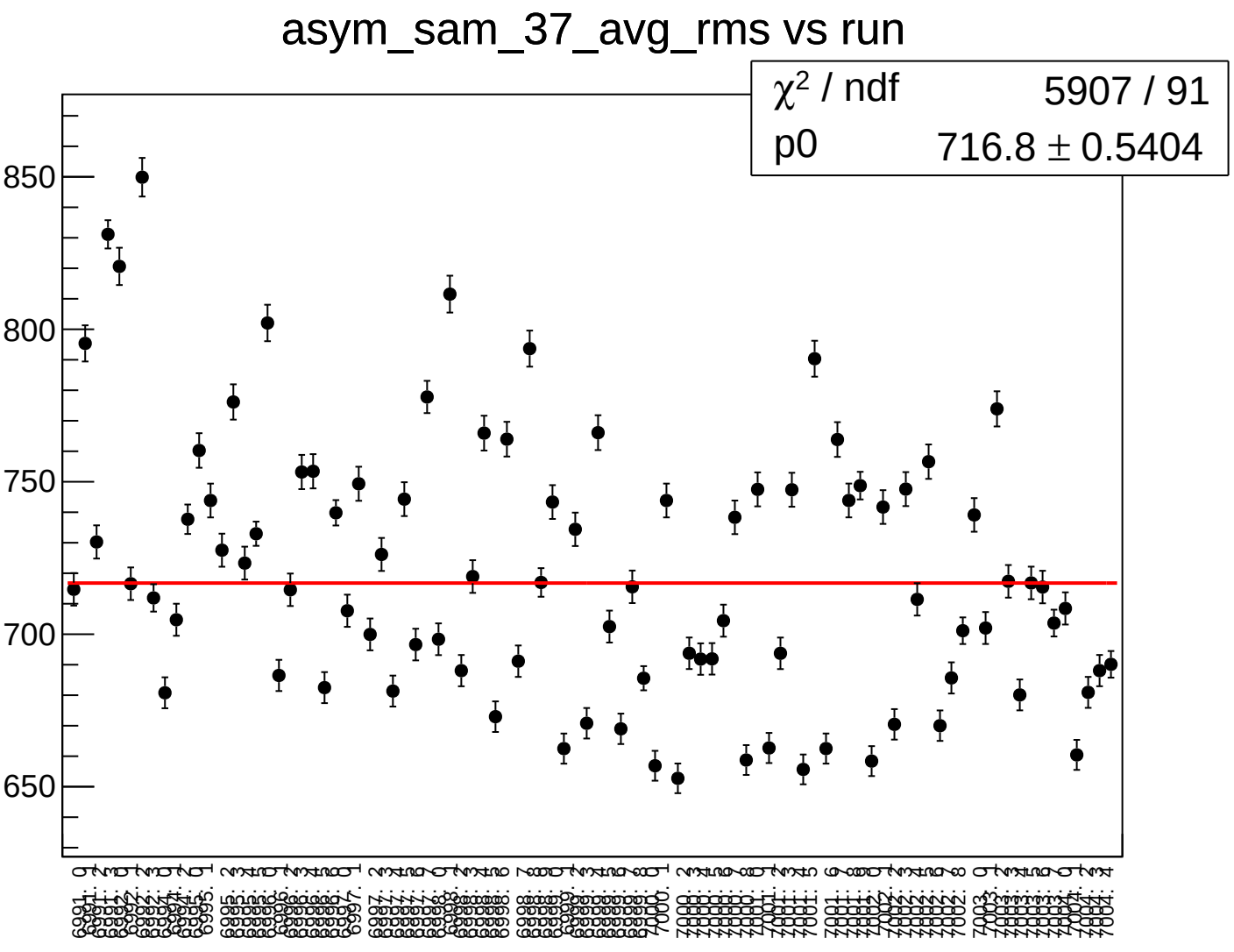

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.11 / 91
p0 −815.9 ± 755.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1111
Std Dev 0
2
1
0
−1
−2

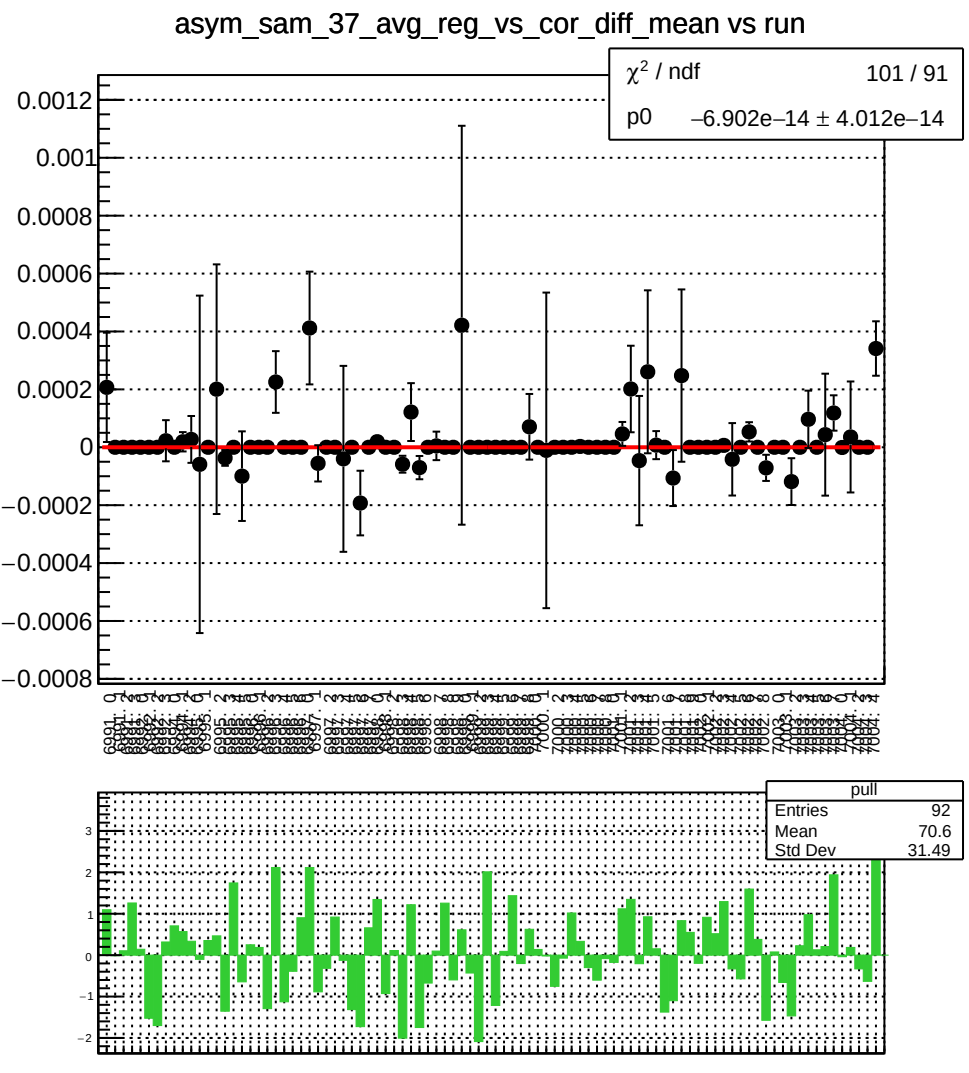

pull1D
Entries 92
Mean −0.003044
Std Dev 0.9447
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

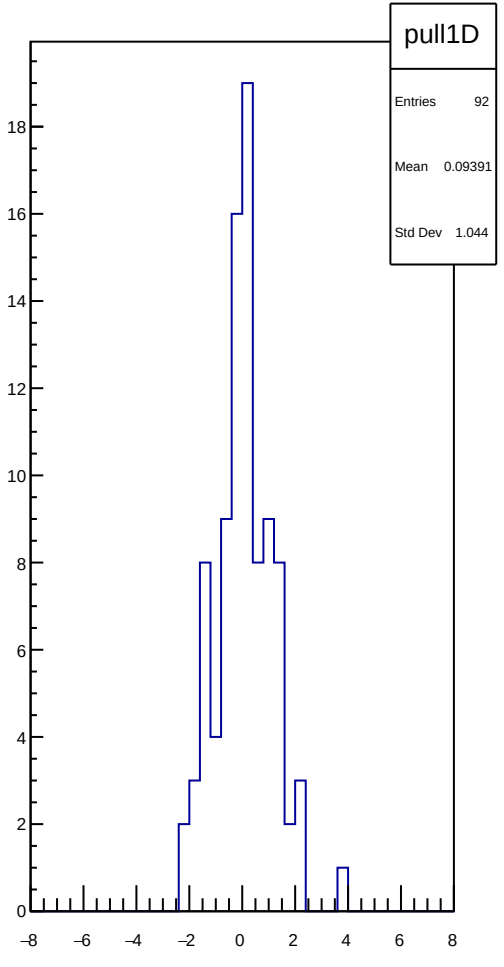

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3077 / 91
p0 709.2 ± 0.5342
780
760
740
720
700
680
660

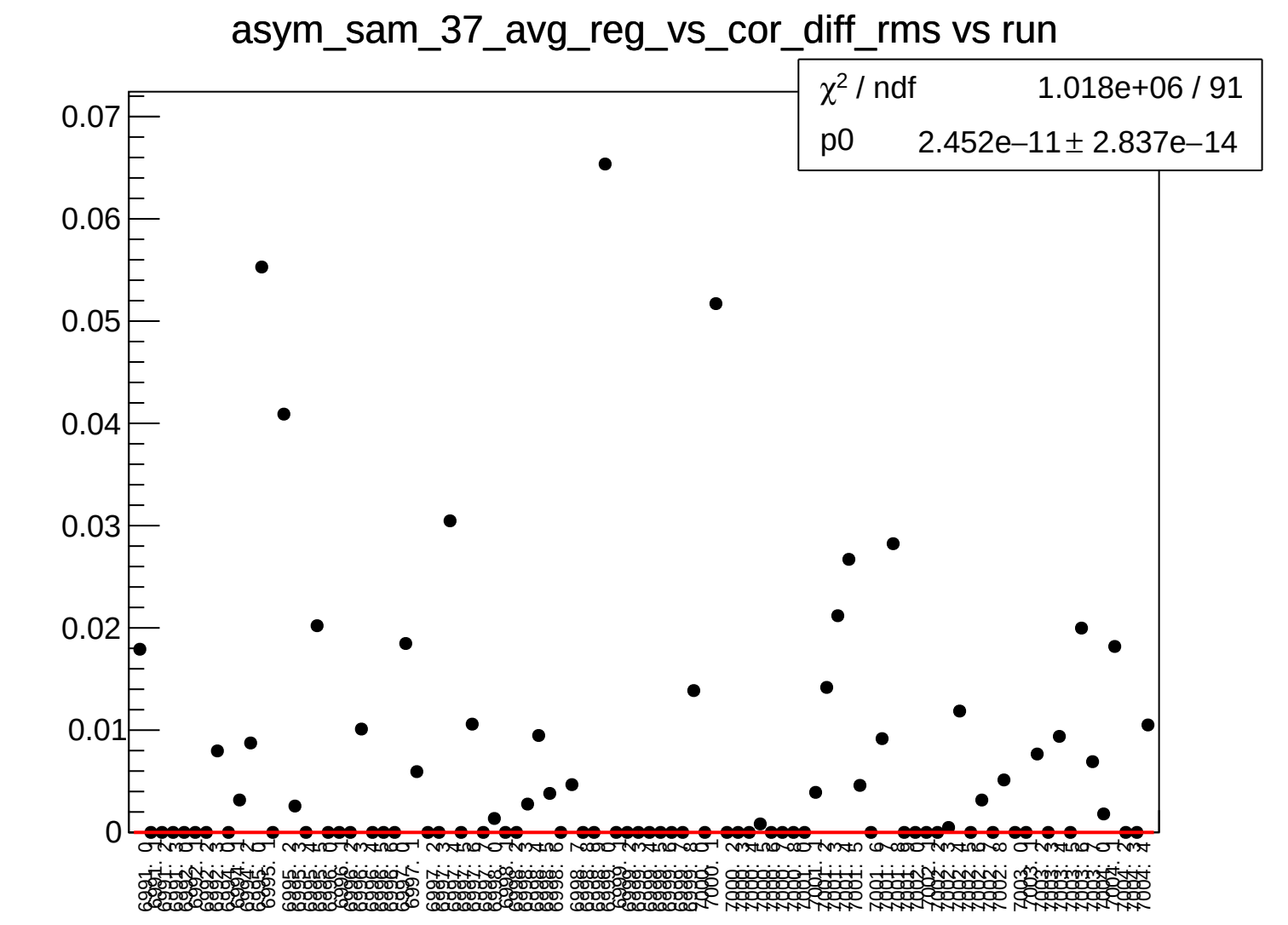

asym_sam_37_avg_mean vs run
χ² / ndf 83.94 / 91
p0 826.9 ± 764.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −596.3
Std Dev 0
2
1
0
−1
−2

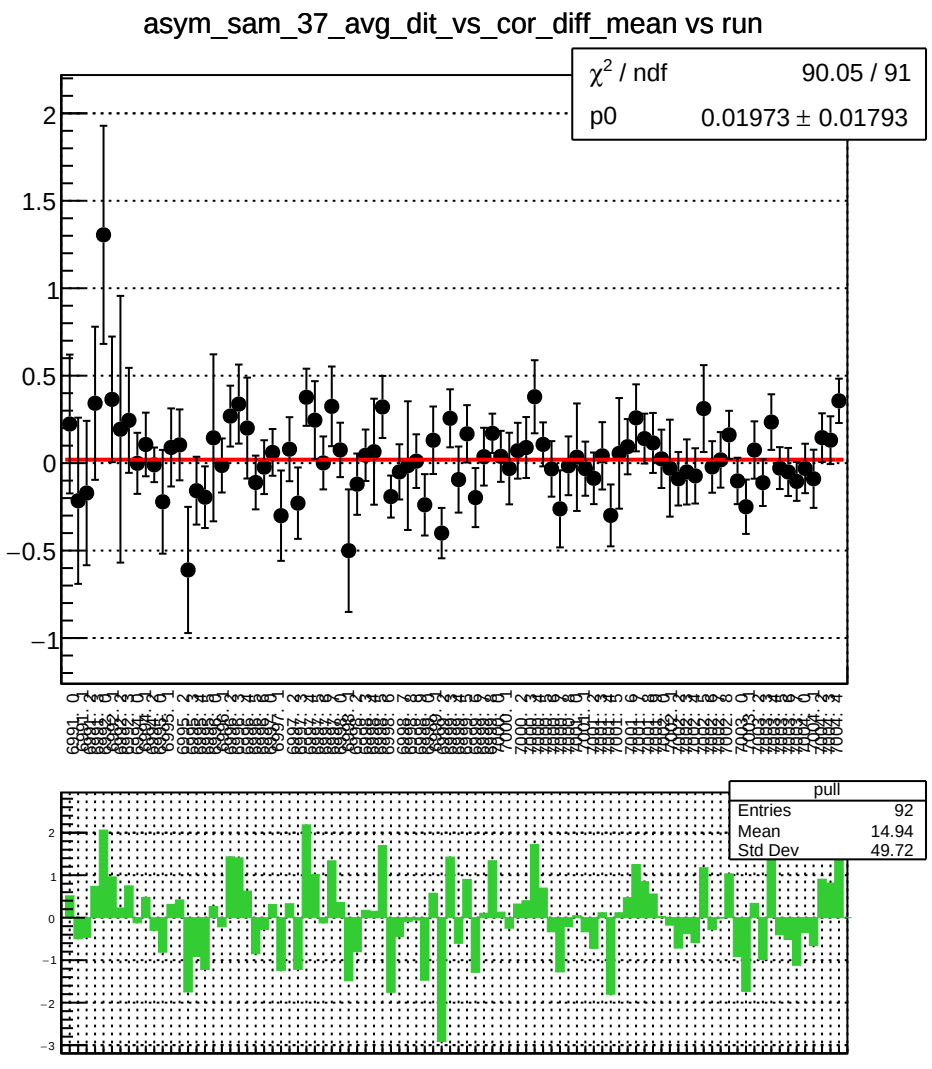

pull1D
Entries 92
Mean 0.005262
Std Dev 0.9552
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

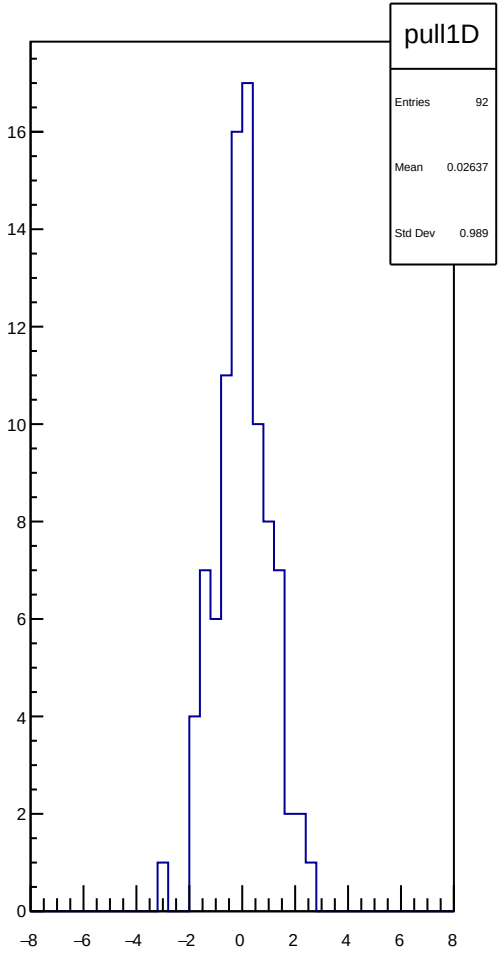

asym_sam_37_avg_rms vs run
χ² / ndf 5907 / 91
p0 716.8 ± 0.5404
850
800
750
700
650

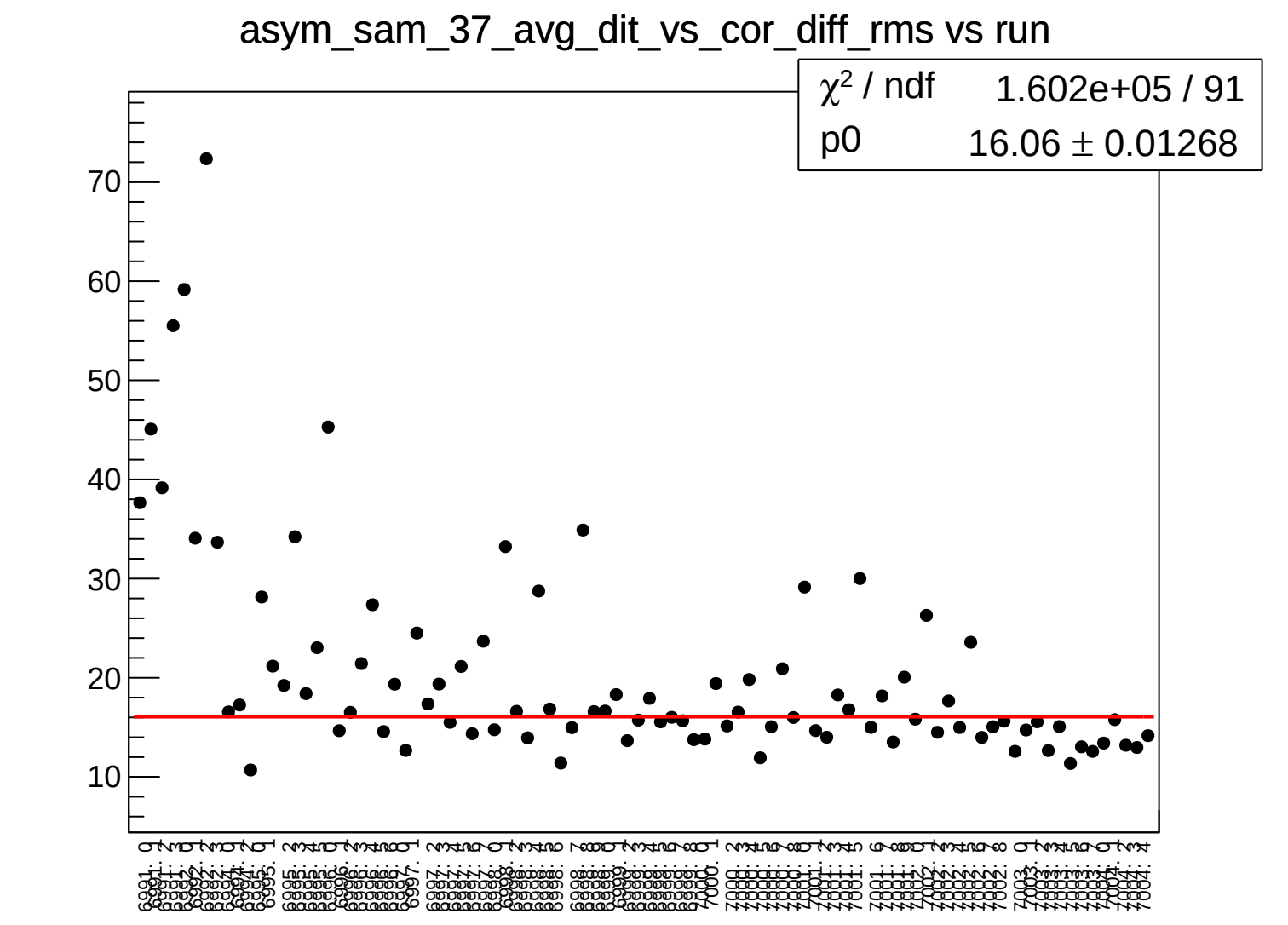

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 91
p0 −6.902e−14 ± 4.012e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 92
Mean 70.6
Std Dev 31.49
3
2
1
0
−1
−2

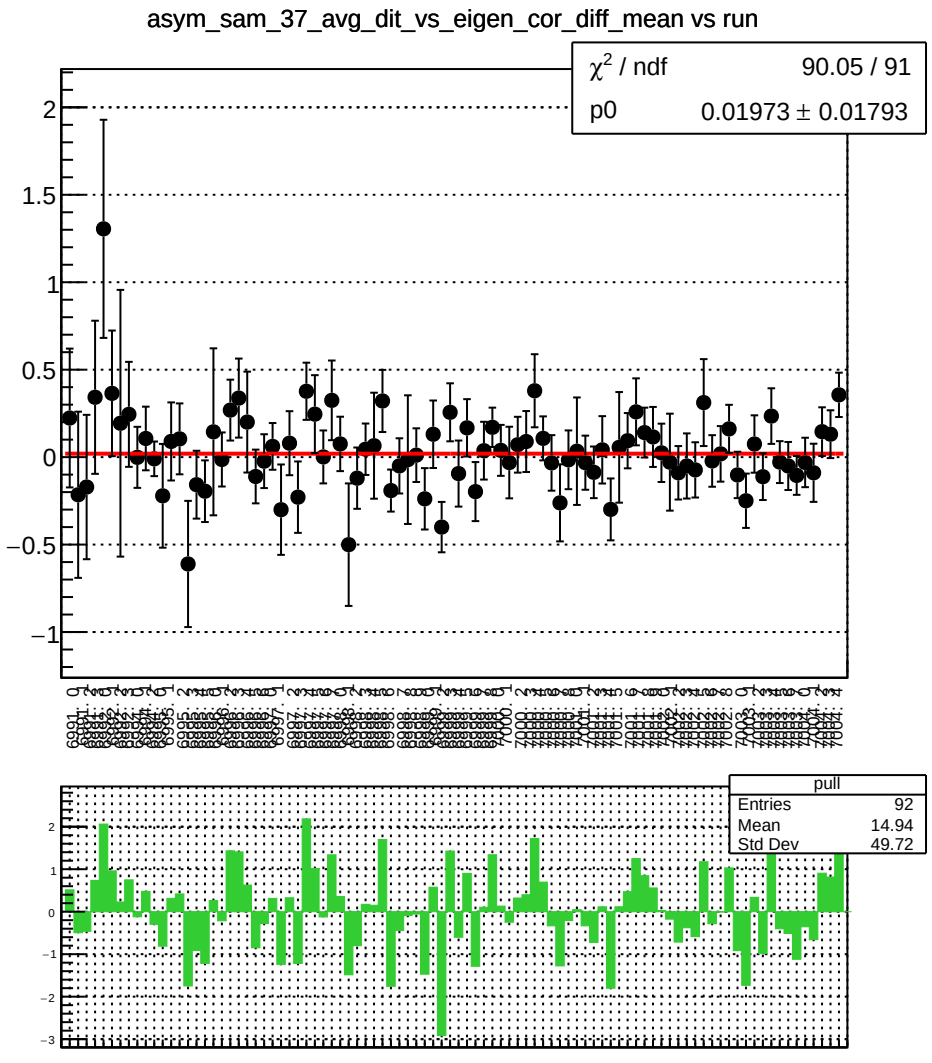

pull1D
Entries 92
Mean 0.09391
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

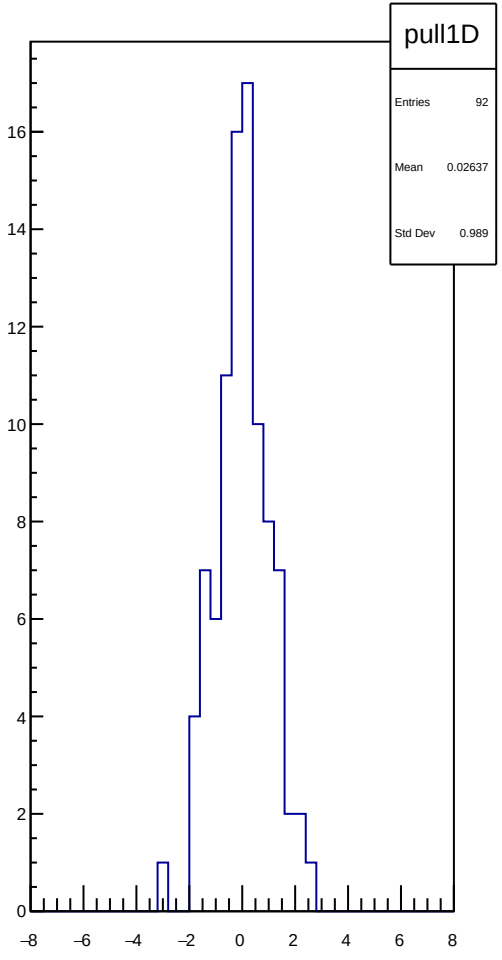

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 91
p0 2.452e−11 ± 2.837e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

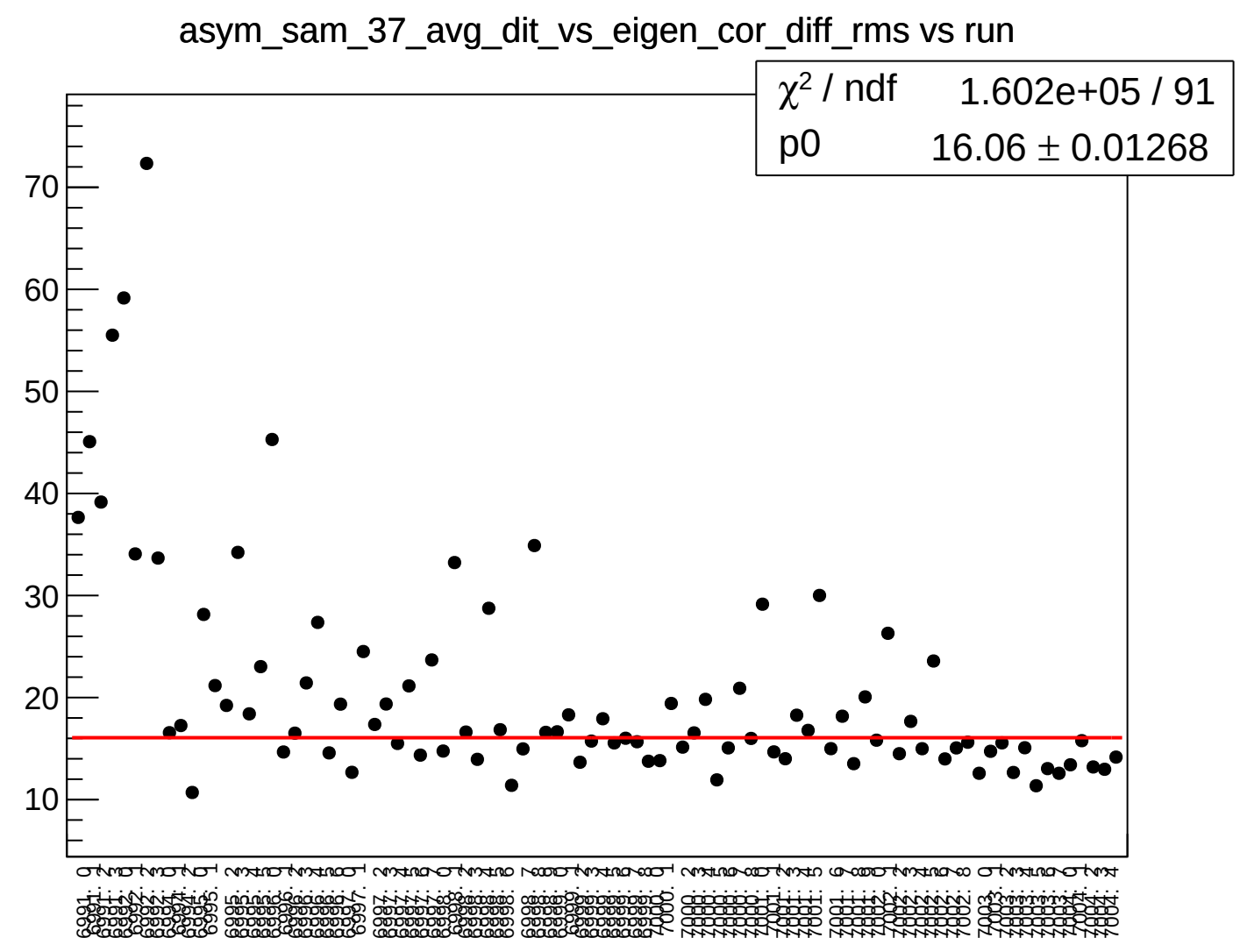

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.05 / 91
p0 0.01973 ± 0.01793
pull
Entries 92
Mean 14.94
Std Dev 49.72

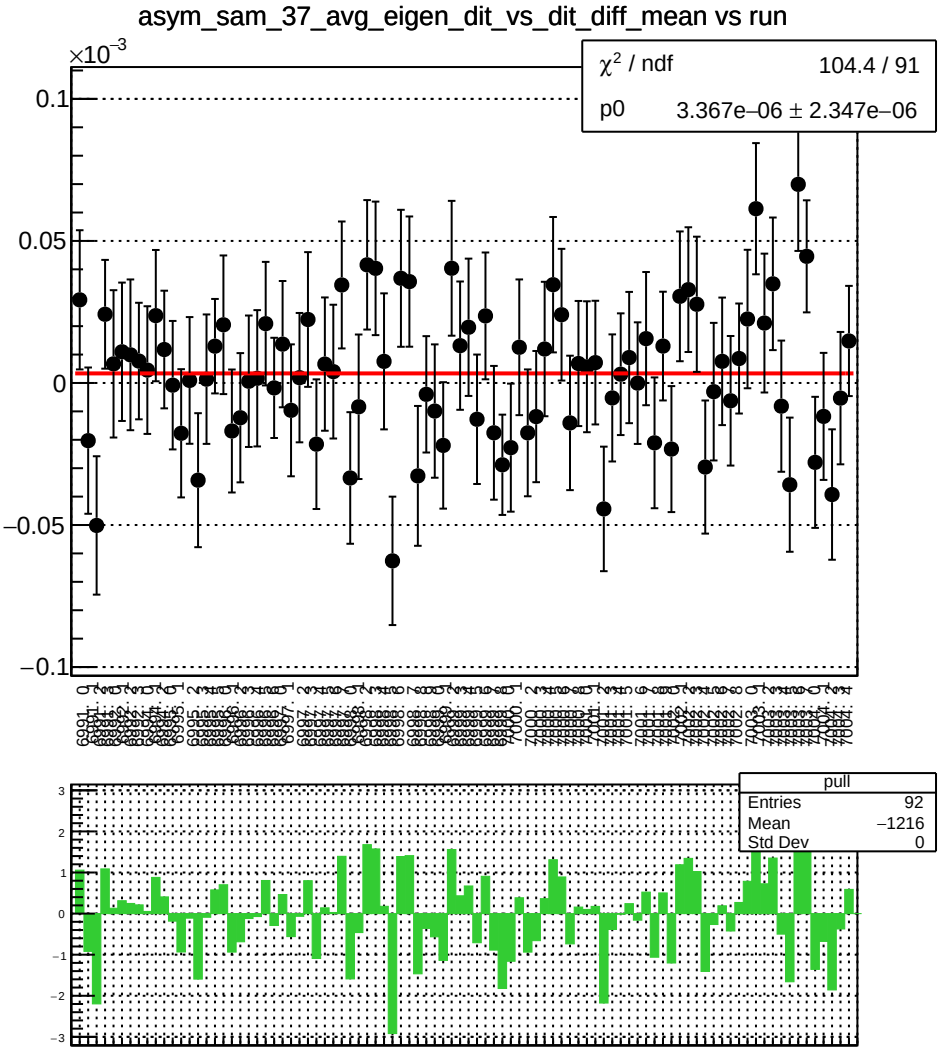

pull1D
Entries 92
Mean 0.02637
Std Dev 0.989

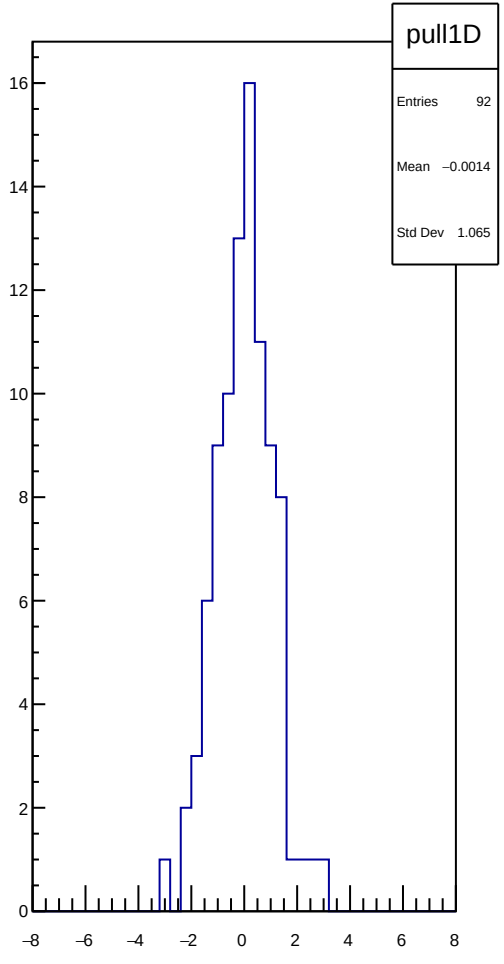

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.602e+05 / 91
p0 16.06 ± 0.01268
70
60
50
40
30
20
10

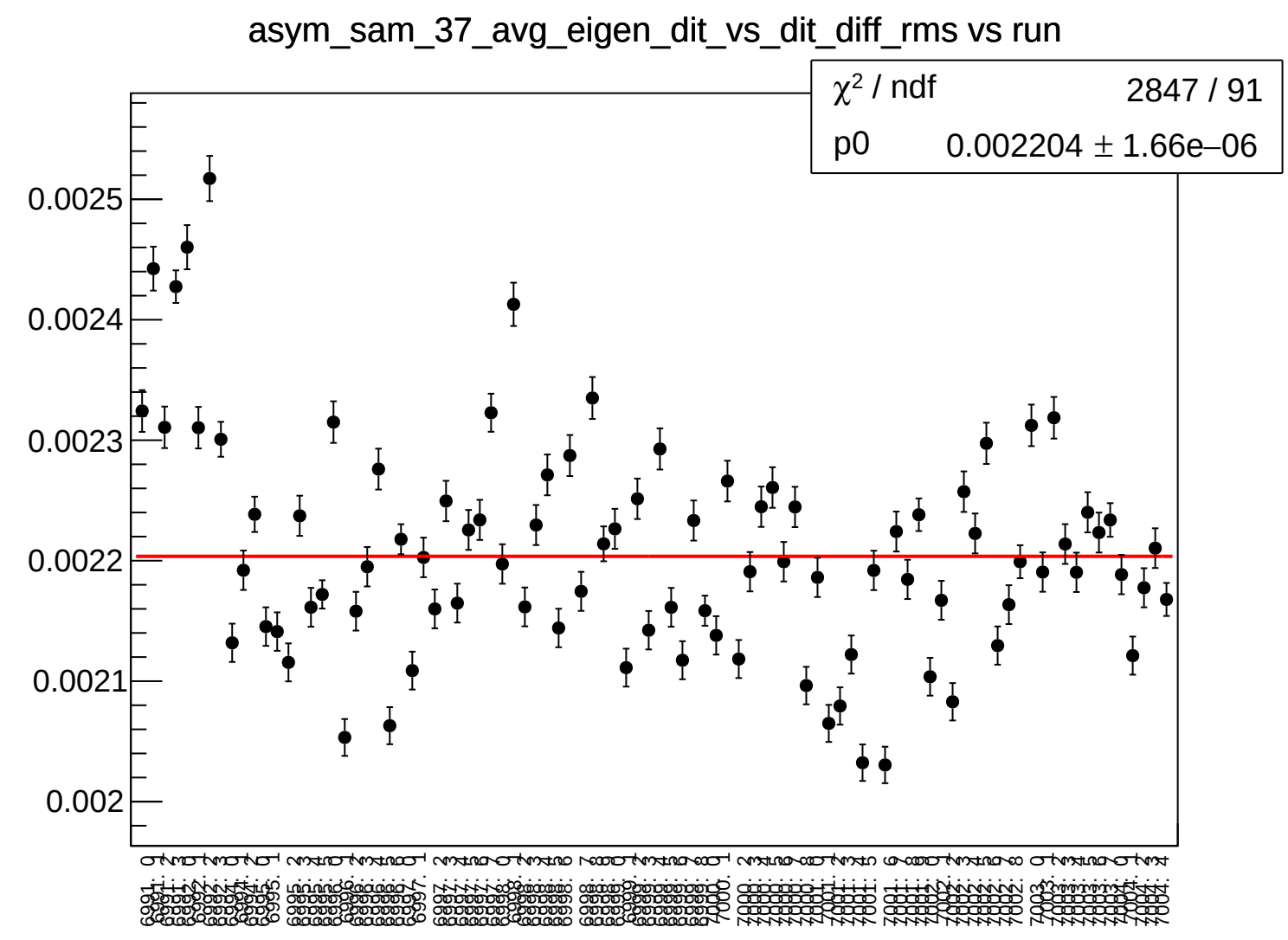

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.05 / 91
p0 0.01973 ± 0.01793
pull
Entries 92
Mean 14.94
Std Dev 49.72

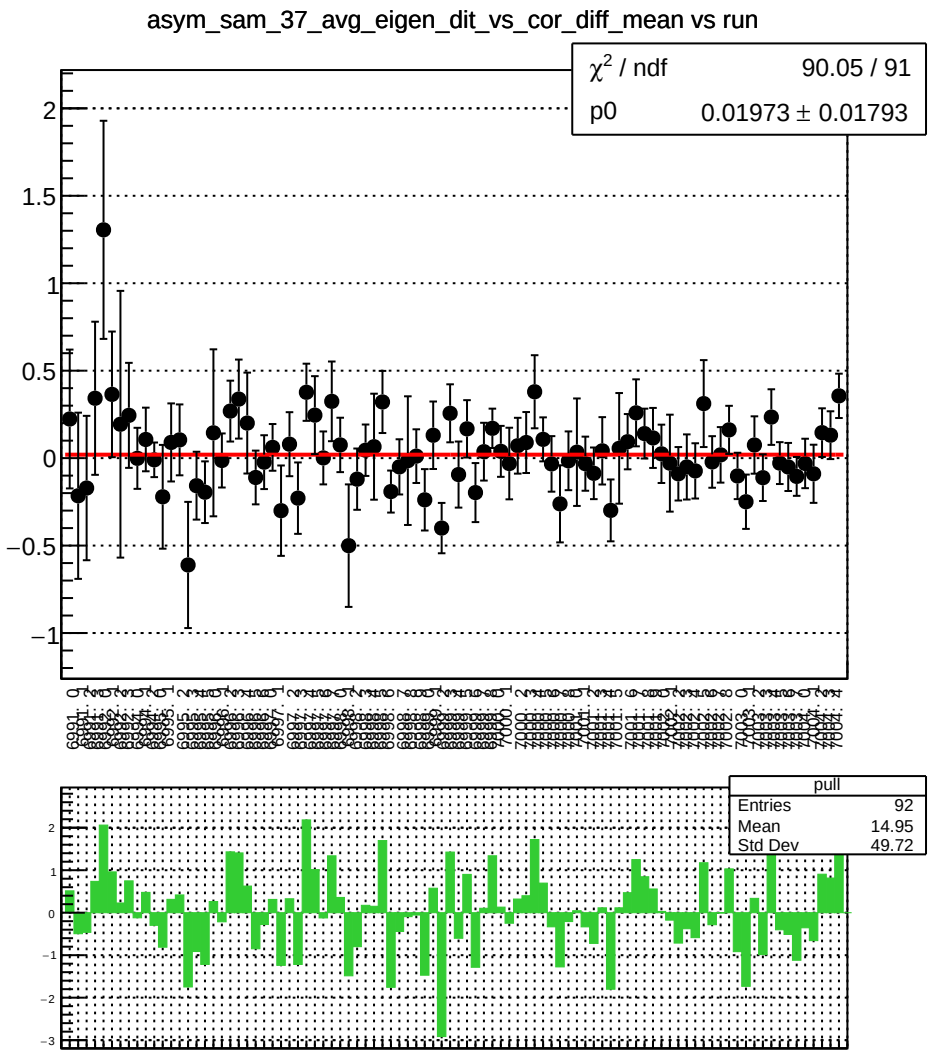

pull1D
Entries 92
Mean 0.02637
Std Dev 0.989

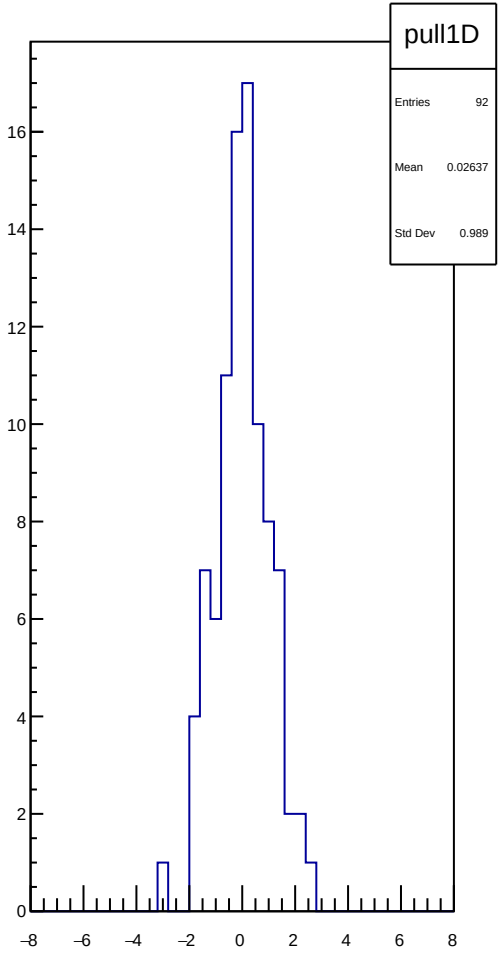

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.602e+05 / 91
p0 16.06 ± 0.01268
70
60
50
40
30
20
10

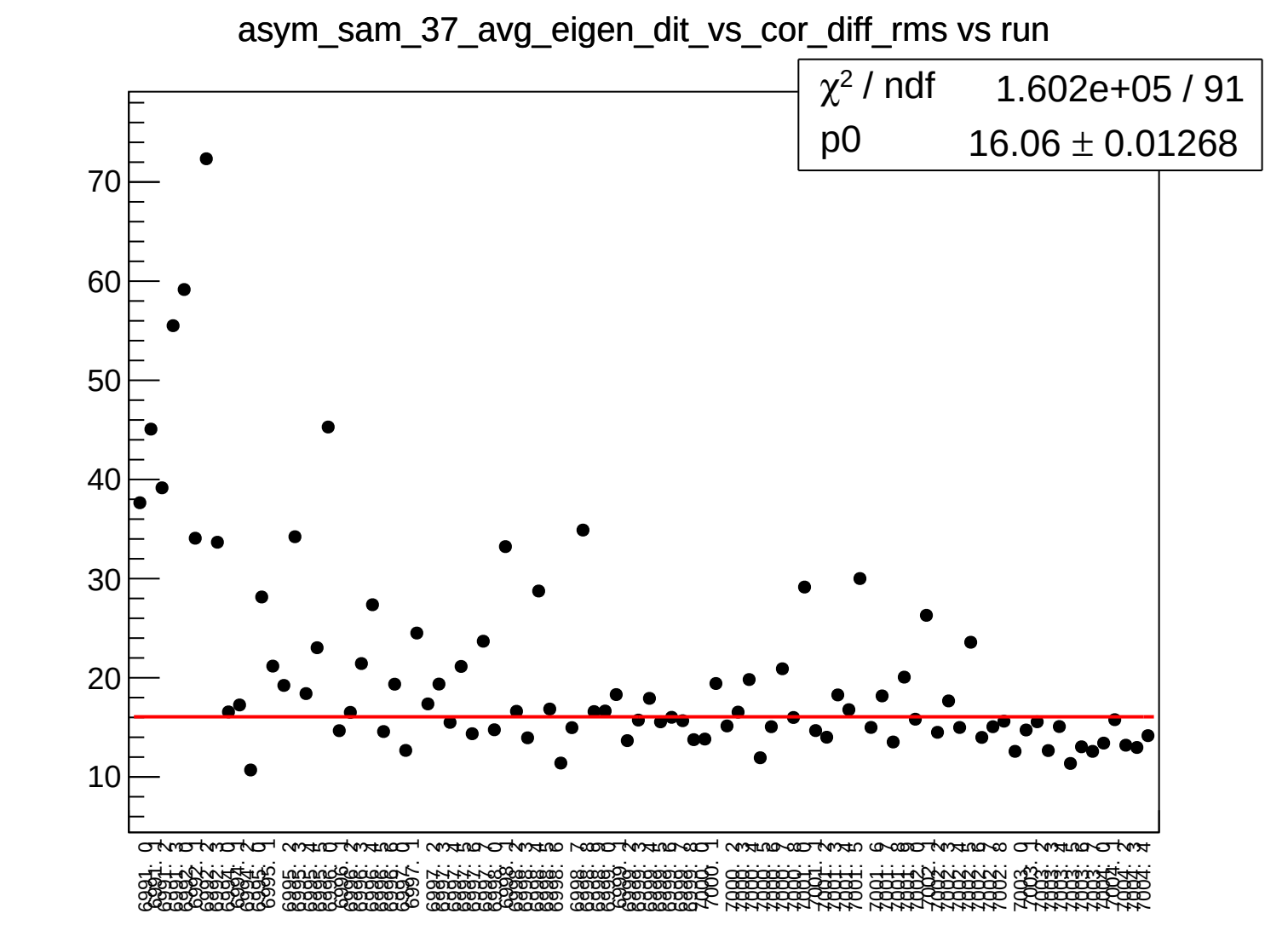

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.4 / 91
p0 3.367e−06 ± 2.347e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −1216
Std Dev 0
3
2
1
0
−1
−2
−3

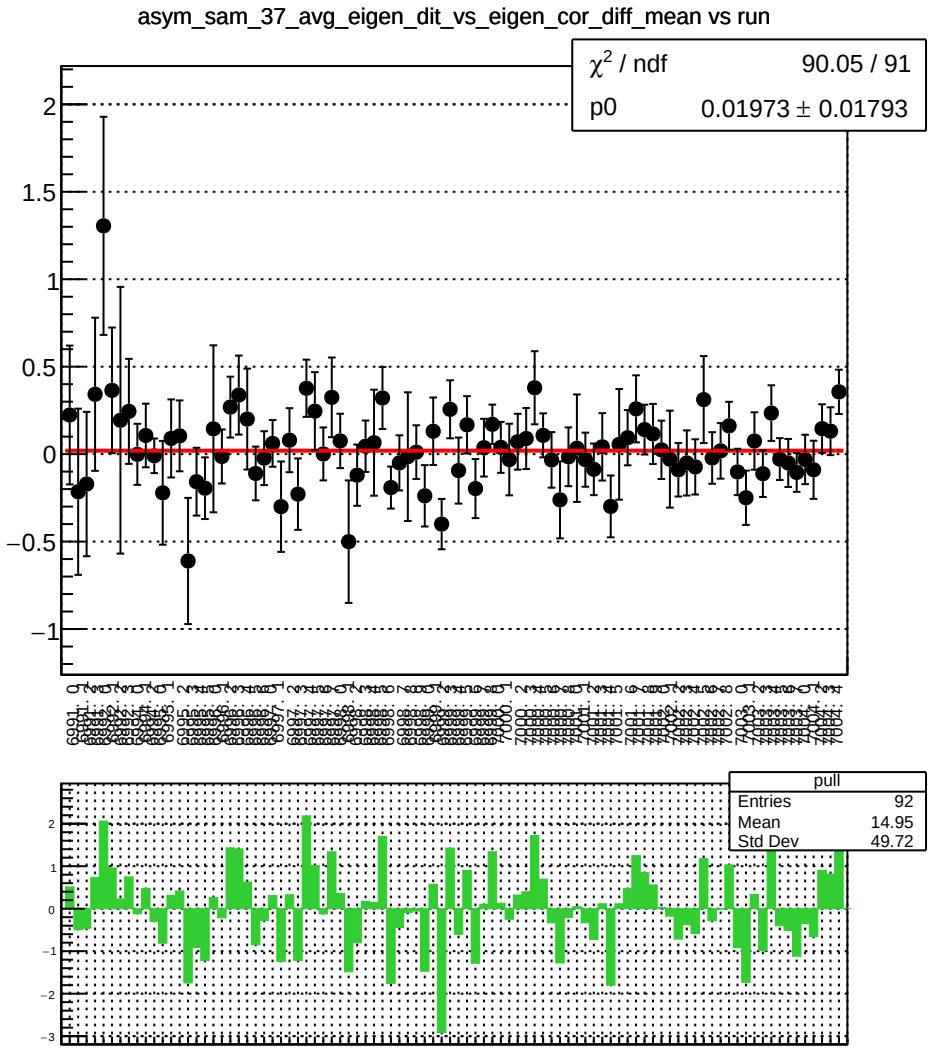

pull1D
Entries 92
Mean −0.0014
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

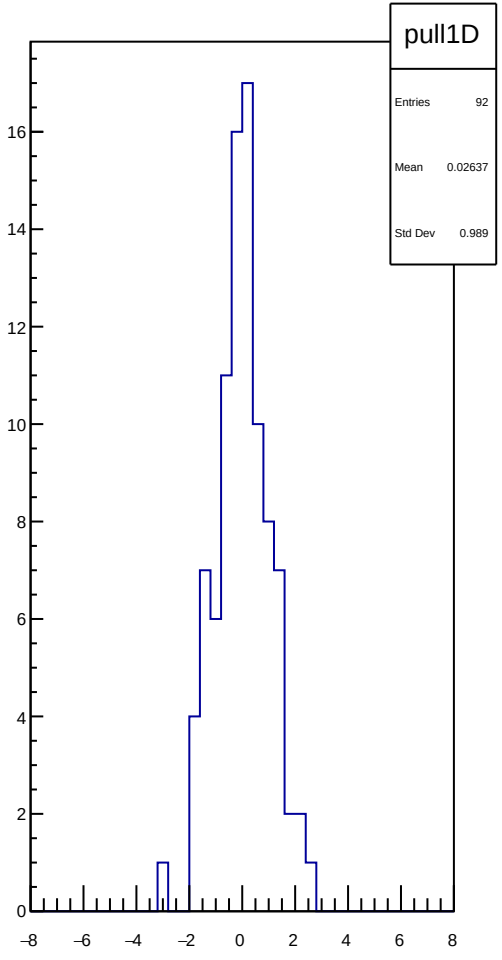

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2847 / 91
p0 0.002204 ± 1.66e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

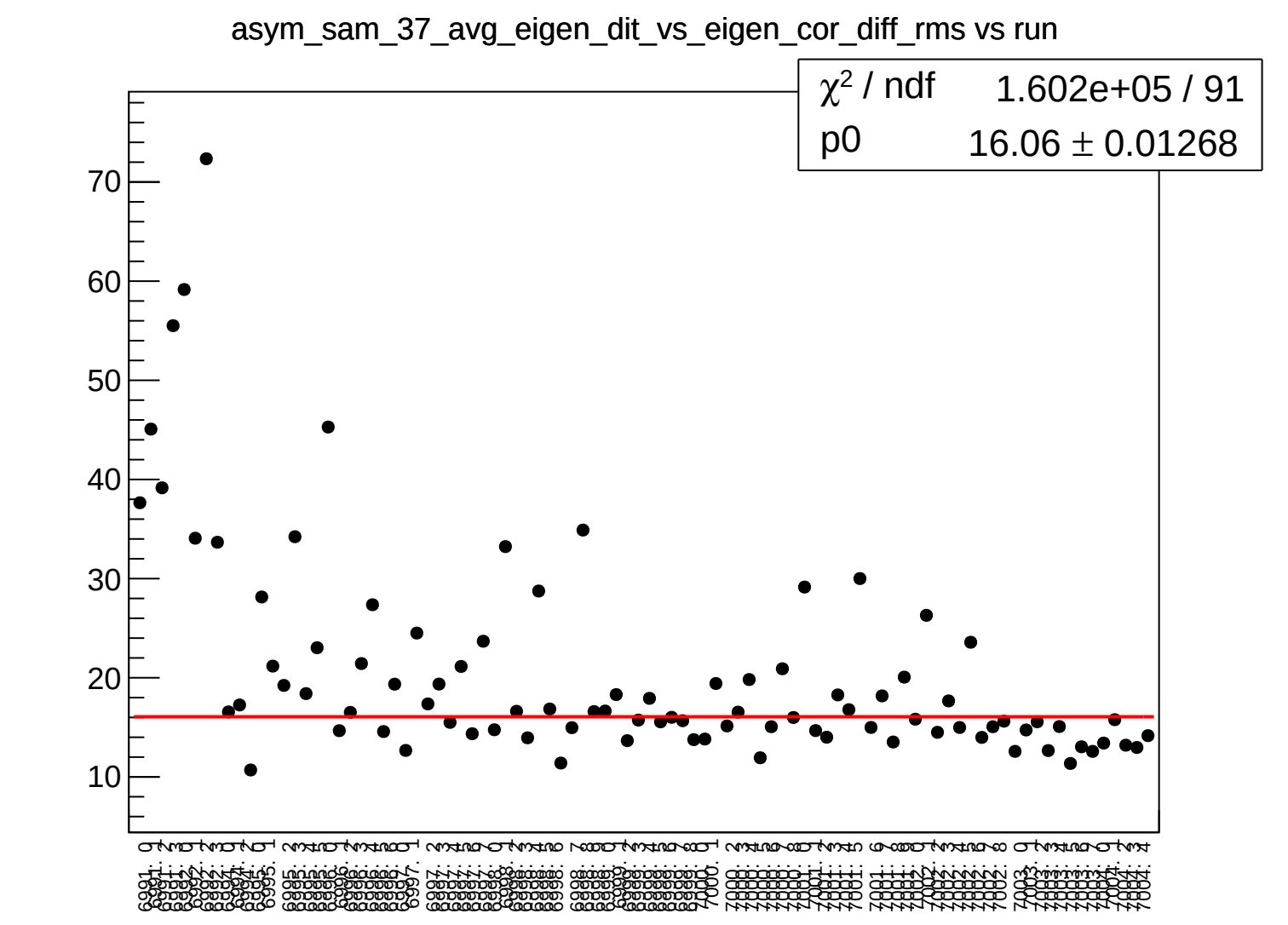

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.05 / 91
p0 0.01973 ± 0.01793
pull
Entries 92
Mean 14.95
Std Dev 49.72

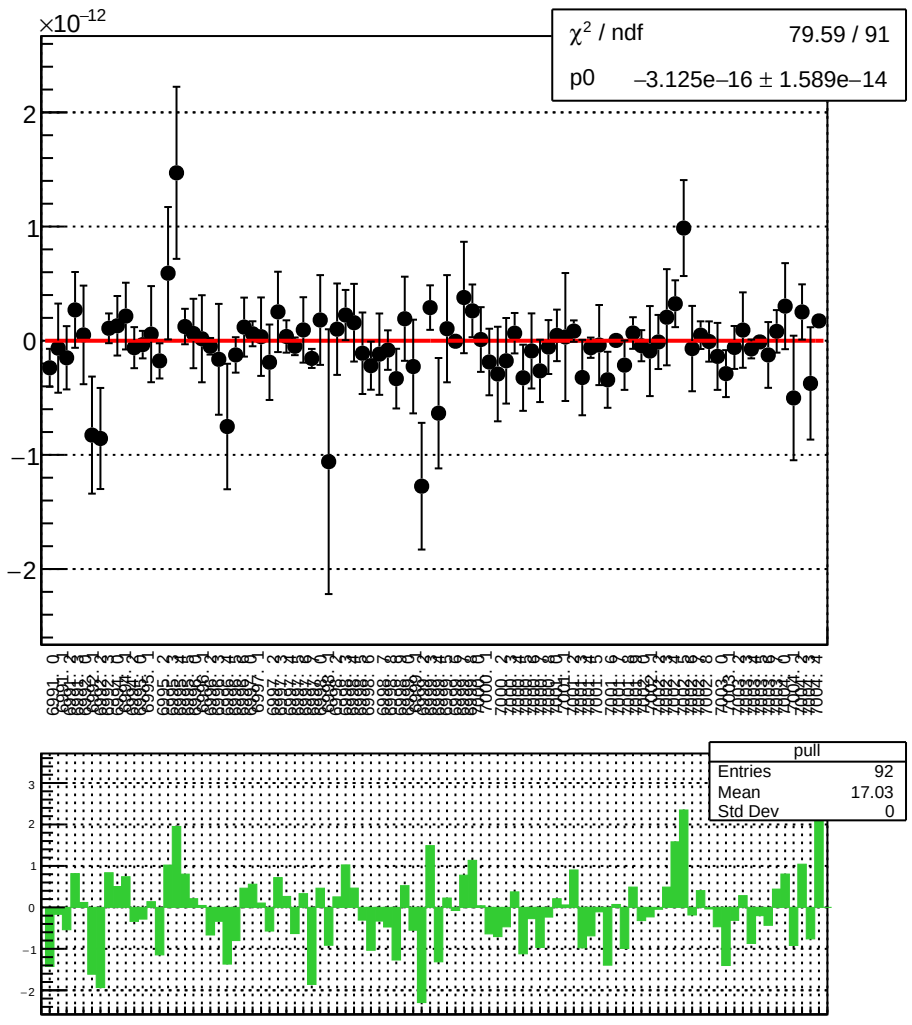

pull1D
Entries 92
Mean 0.02637
Std Dev 0.989

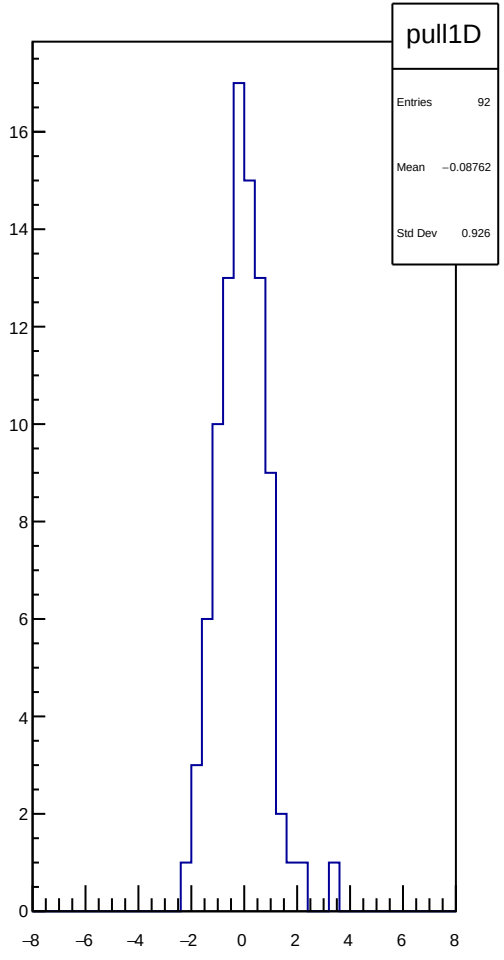

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.602e+05 / 91
p0 16.06 ± 0.01268
70
60
50
40
30
20
10

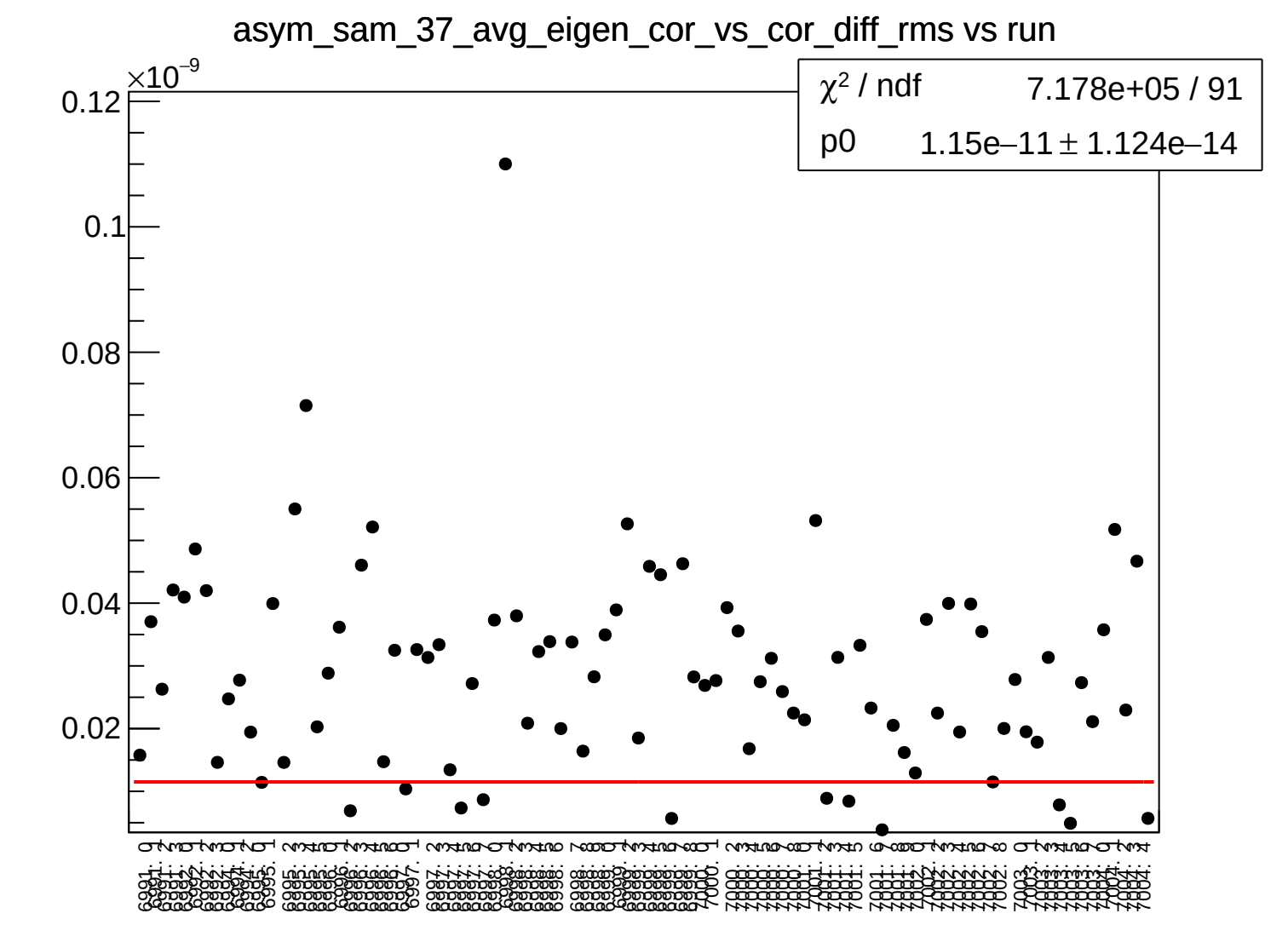

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.05 / 91
p0 0.01973 ± 0.01793
pull
Entries 92
Mean 14.95
Std Dev 49.72

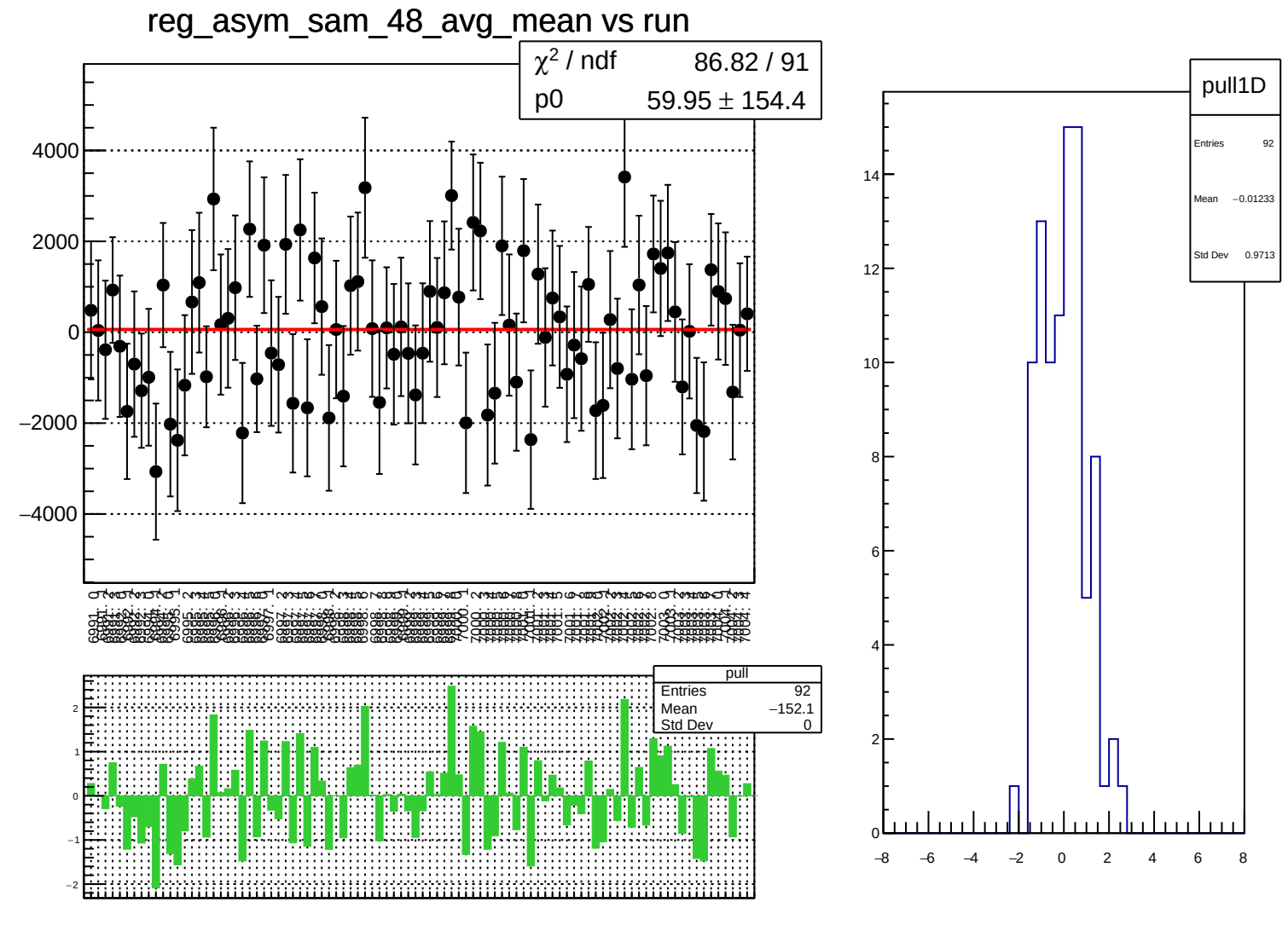

pull1D
Entries 92
Mean 0.02637
Std Dev 0.989

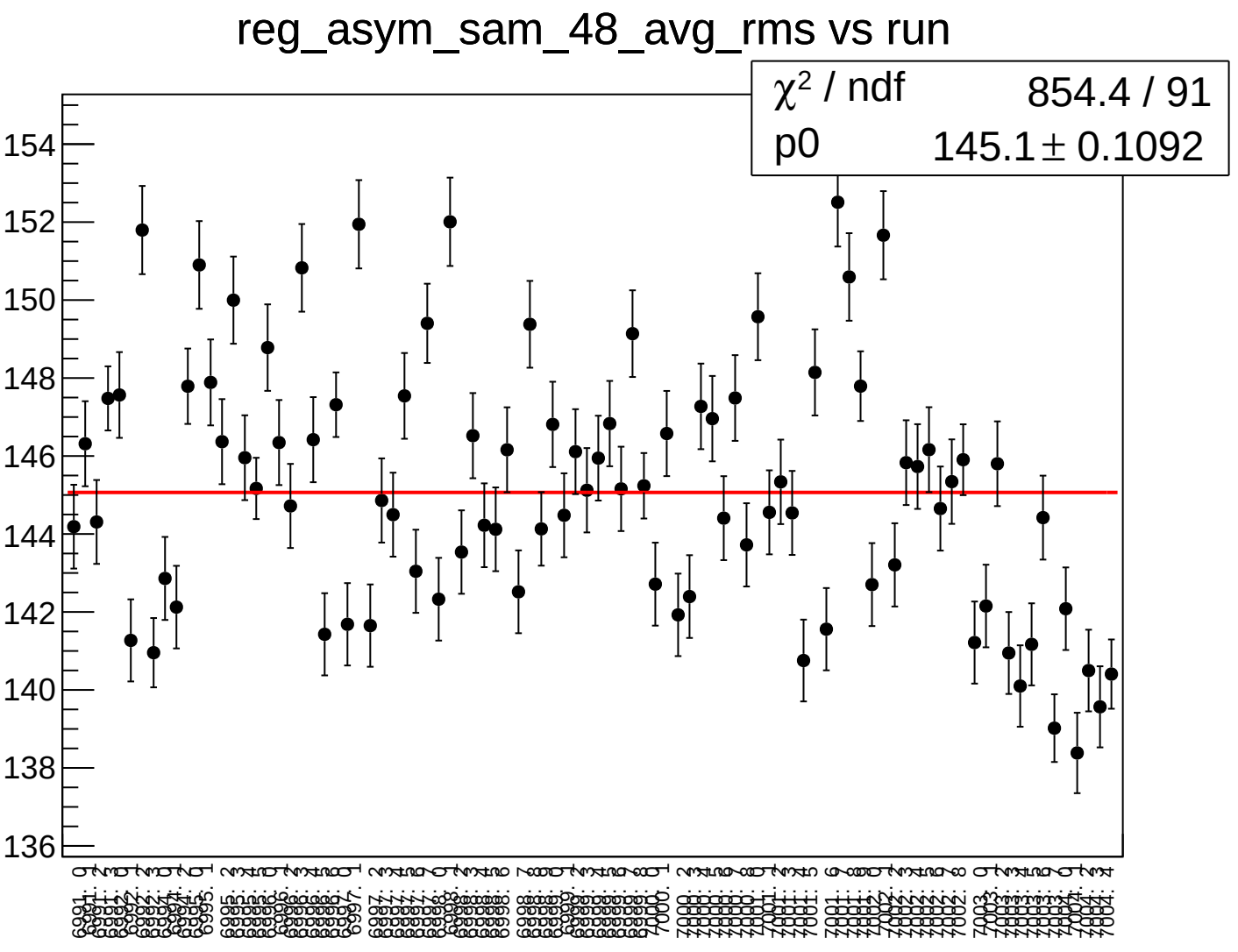

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.602e+05 / 91
p0 16.06 ± 0.01268
70
60
50
40
30
20
10

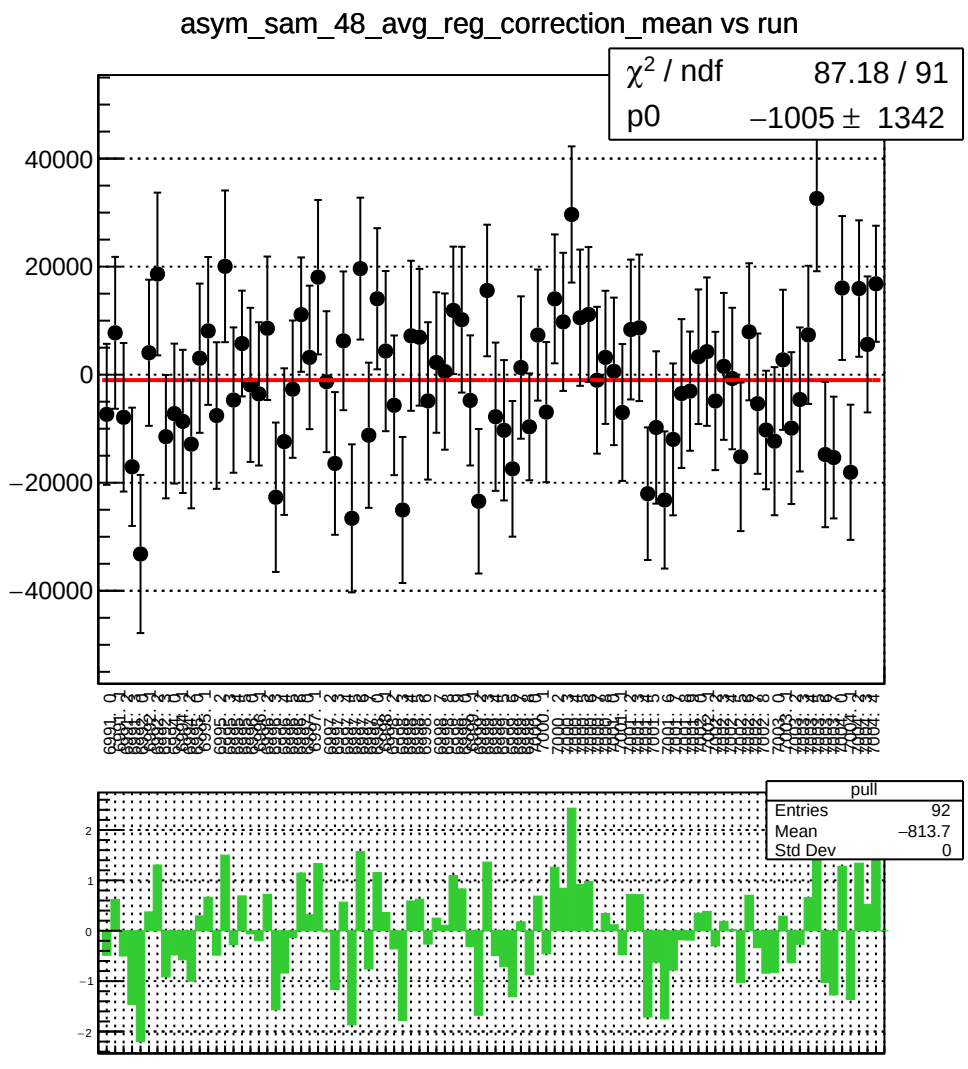

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.59 / 91
p0 −3.125e−16 ± 1.589e−14
pull
Entries 92
Mean 17.03
Std Dev 0

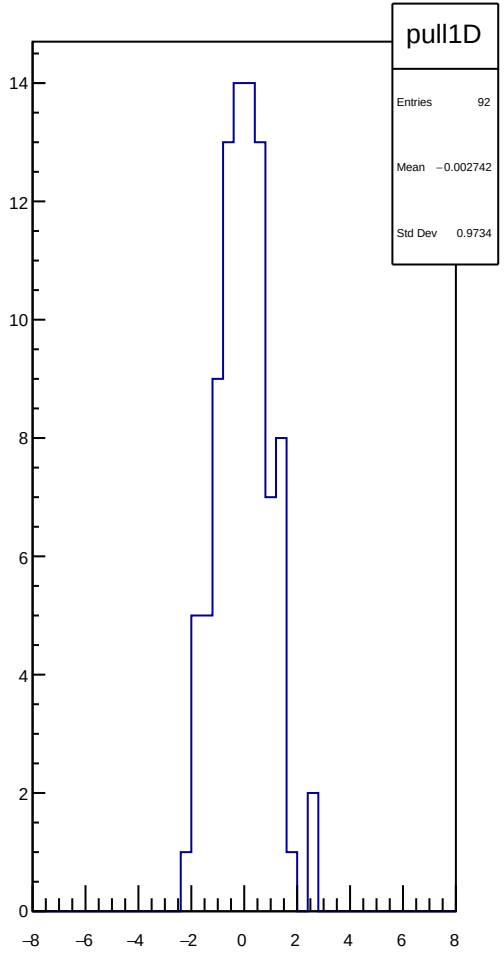

pull1D
Entries 92
Mean −0.08762
Std Dev 0.926

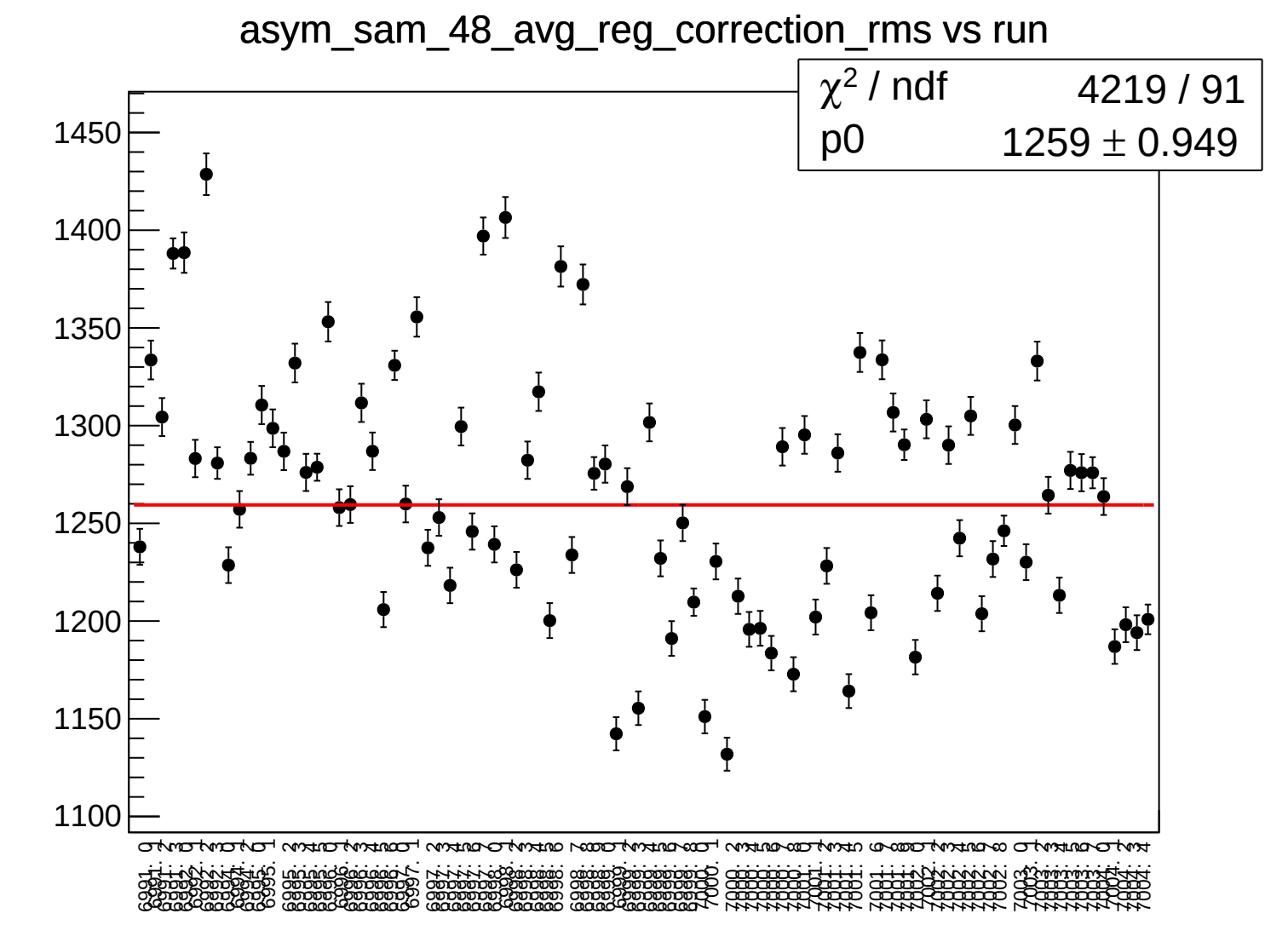

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 7.178e+05 / 91
p0 1.15e−11 ± 1.124e−14

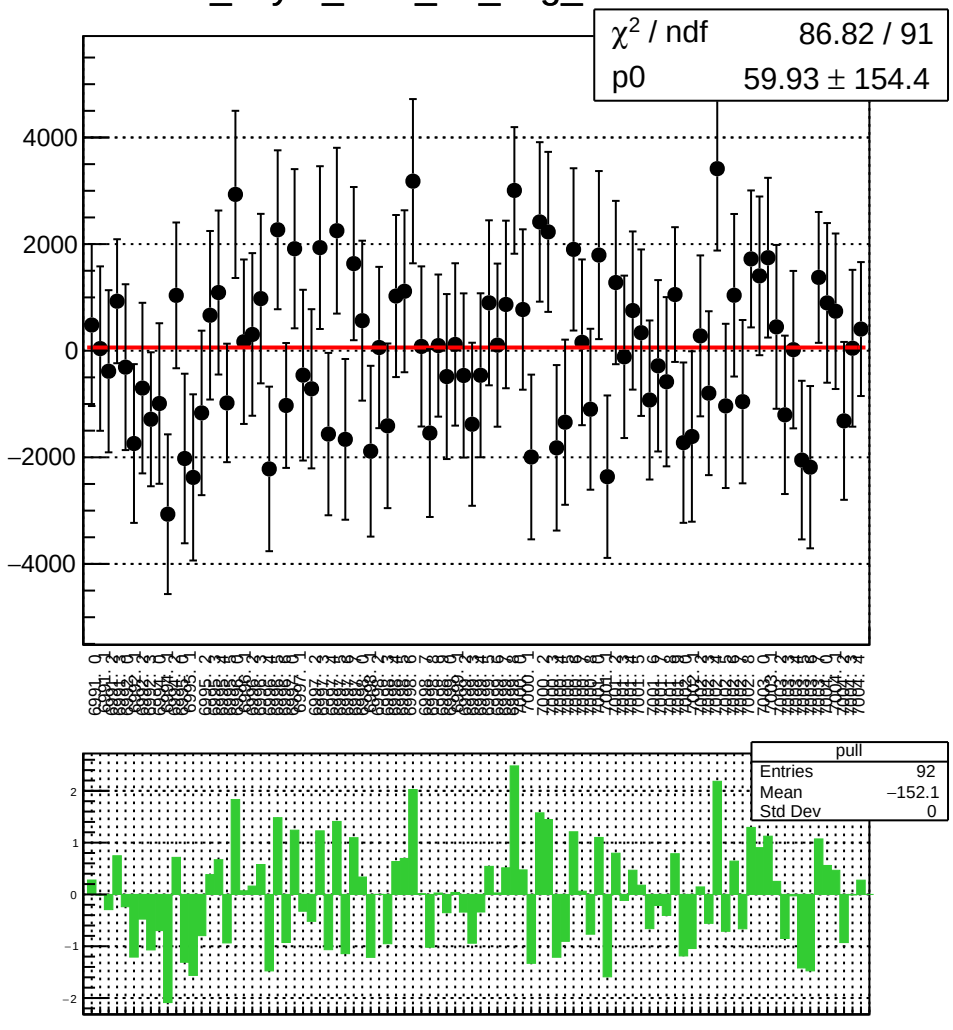

reg_asym_sam_48_avg_mean vs run
χ² / ndf 86.82 / 91
p0 59.95 ± 154.4
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −152.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01233
Std Dev 0.9713
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

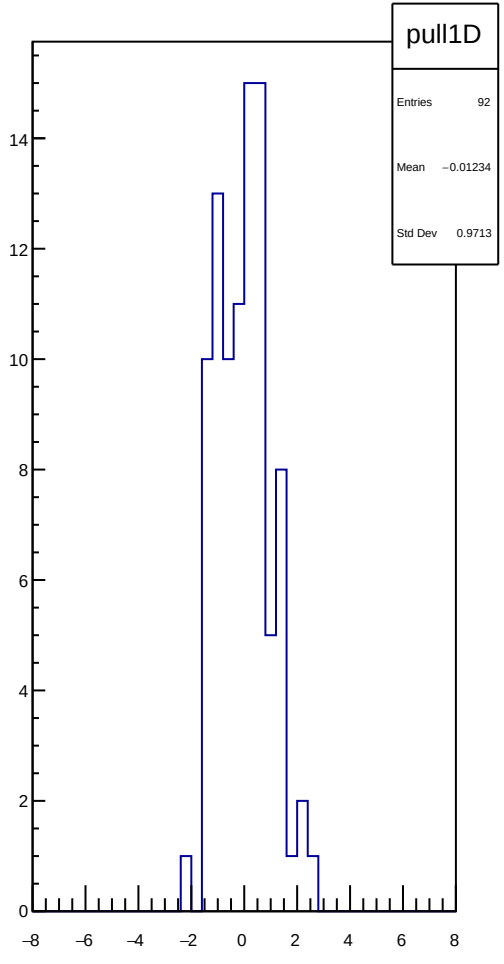

reg_asym_sam_48_avg_rms vs run
χ² / ndf 854.4 / 91
p0 145.1 ± 0.1092
154
152
150
148
146
144
142
140
138
136

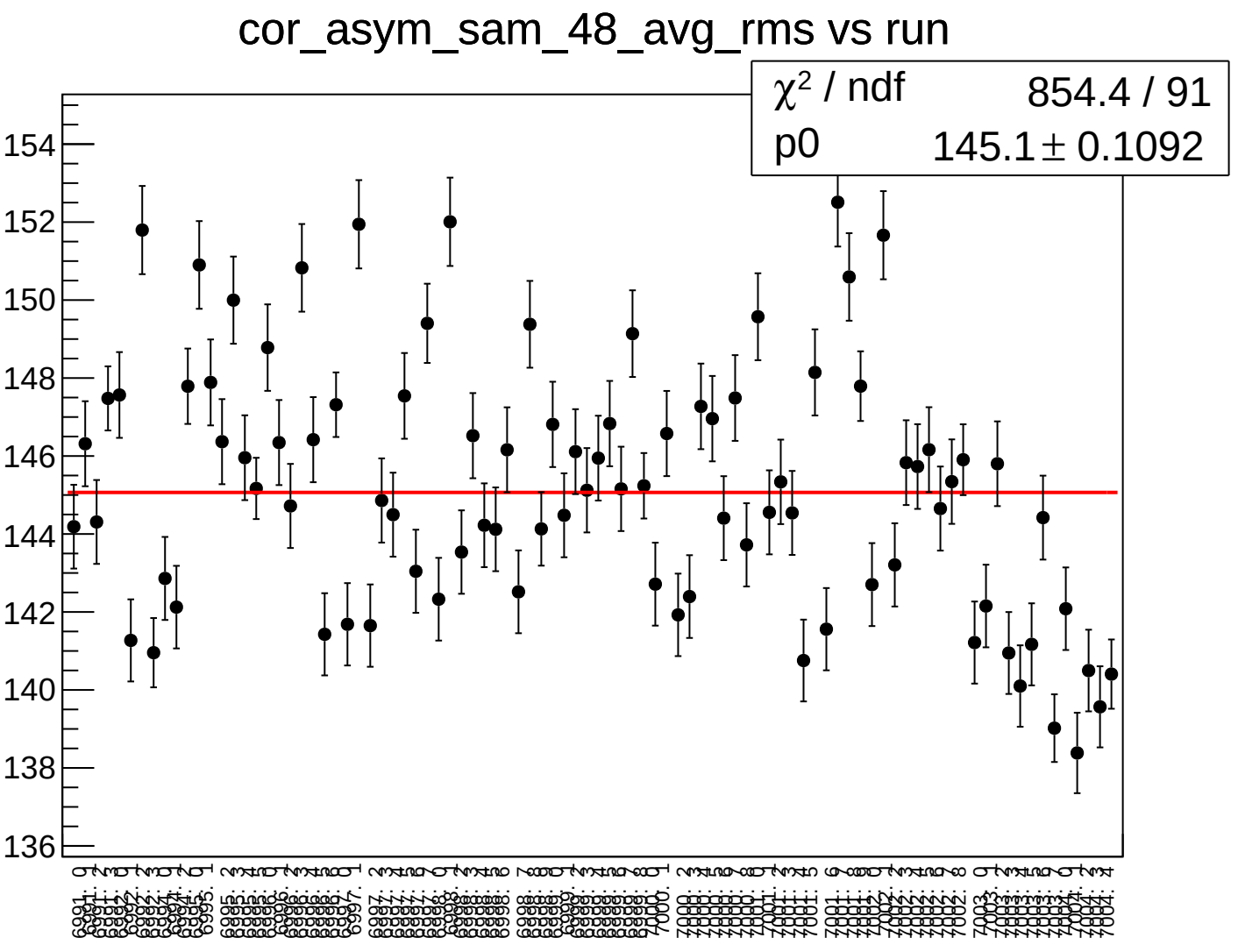

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 87.18 / 91
p0 −1005 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −813.7
Std Dev 0
2
1
0
−1
−2

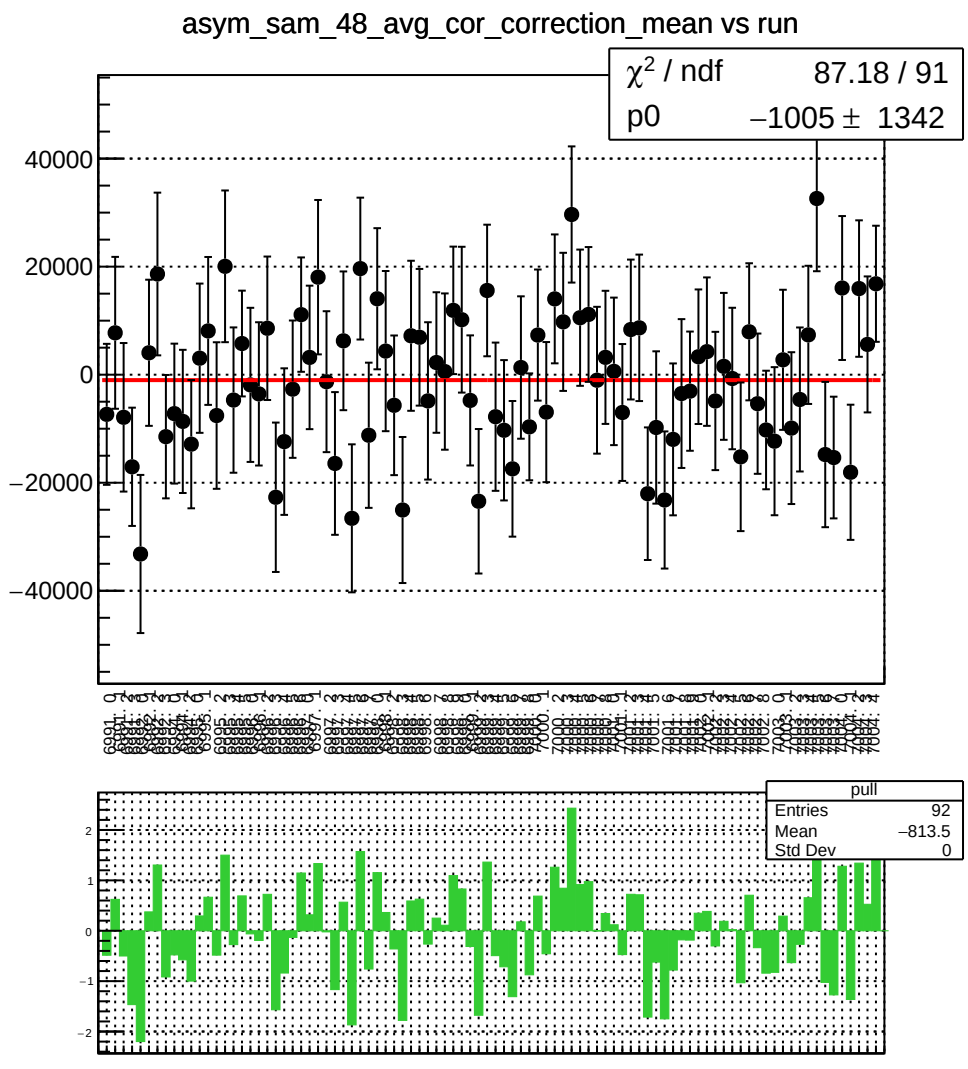

pull1D
Entries 92
Mean −0.002742
Std Dev 0.9734
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

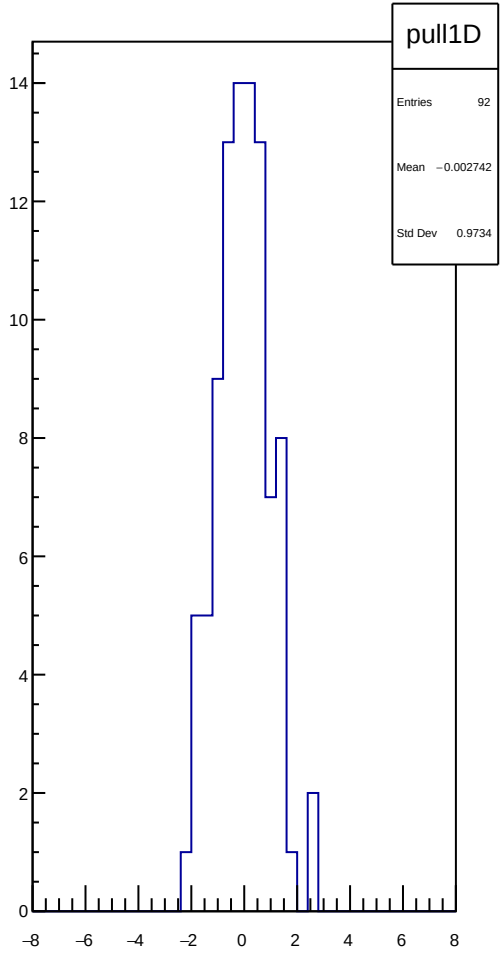

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 4219 / 91
p0 1259 ± 0.949
1450
1400
1350
1300
1250
1200
1150
1100

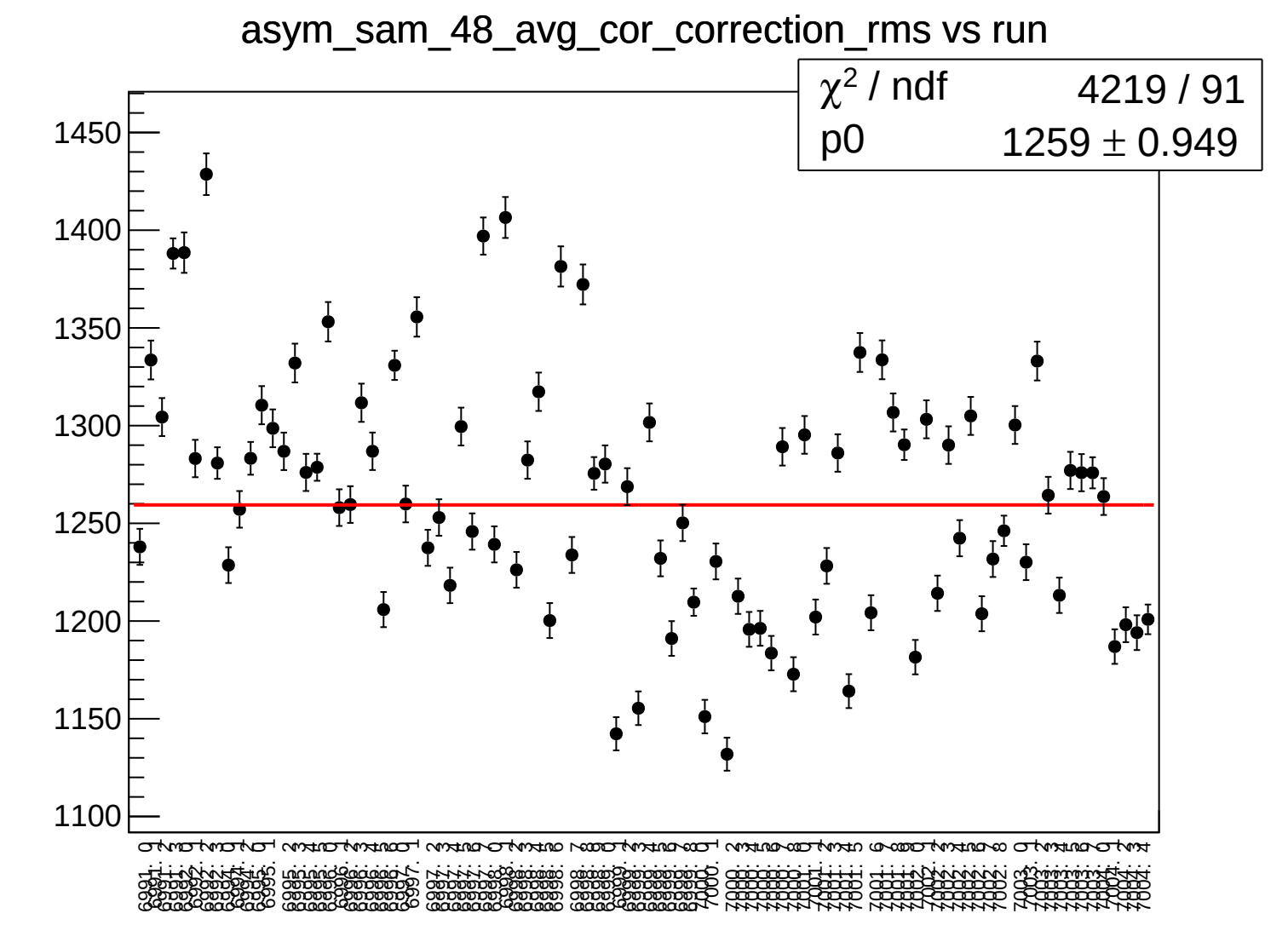

cor_asym_sam_48_avg_mean vs run
χ² / ndf 86.82 / 91
p0 59.93 ± 154.4
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −152.1
Std Dev 0
2
1
0
−1
−2

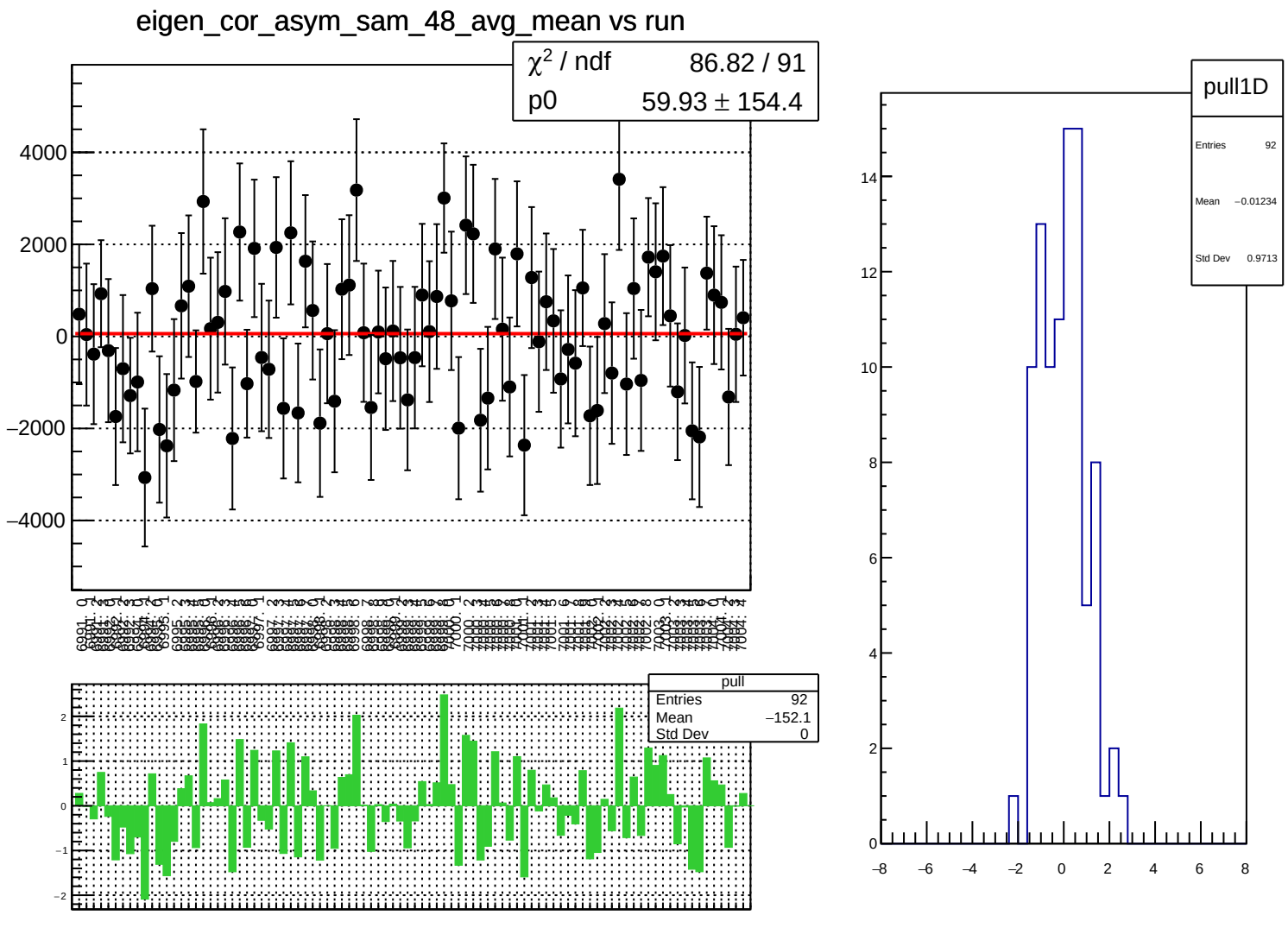

pull1D
Entries 92
Mean −0.01234
Std Dev 0.9713
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

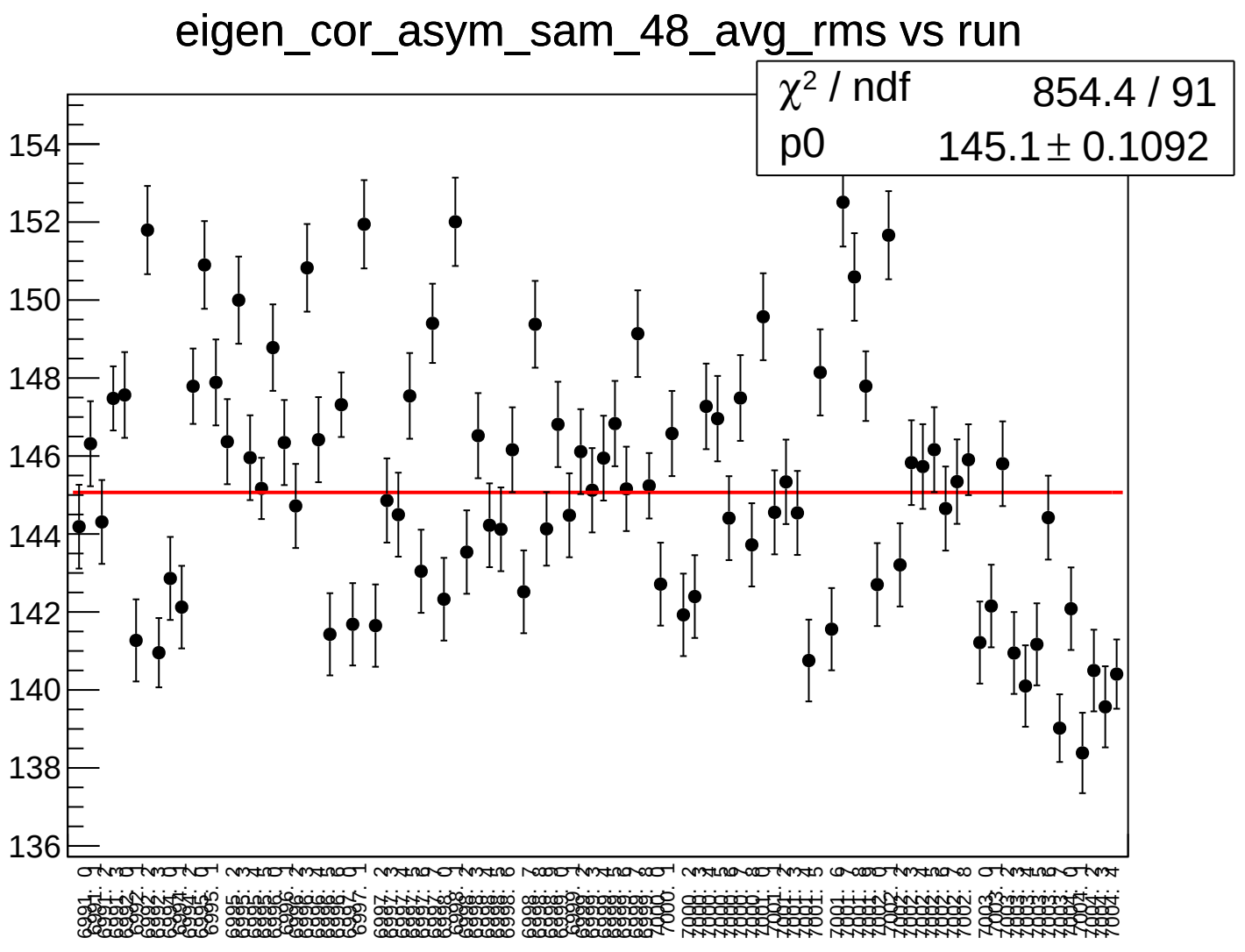

cor_asym_sam_48_avg_rms vs run
χ² / ndf 854.4 / 91
p0 145.1 ± 0.1092
154
152
150
148
146
144
142
140
138
136

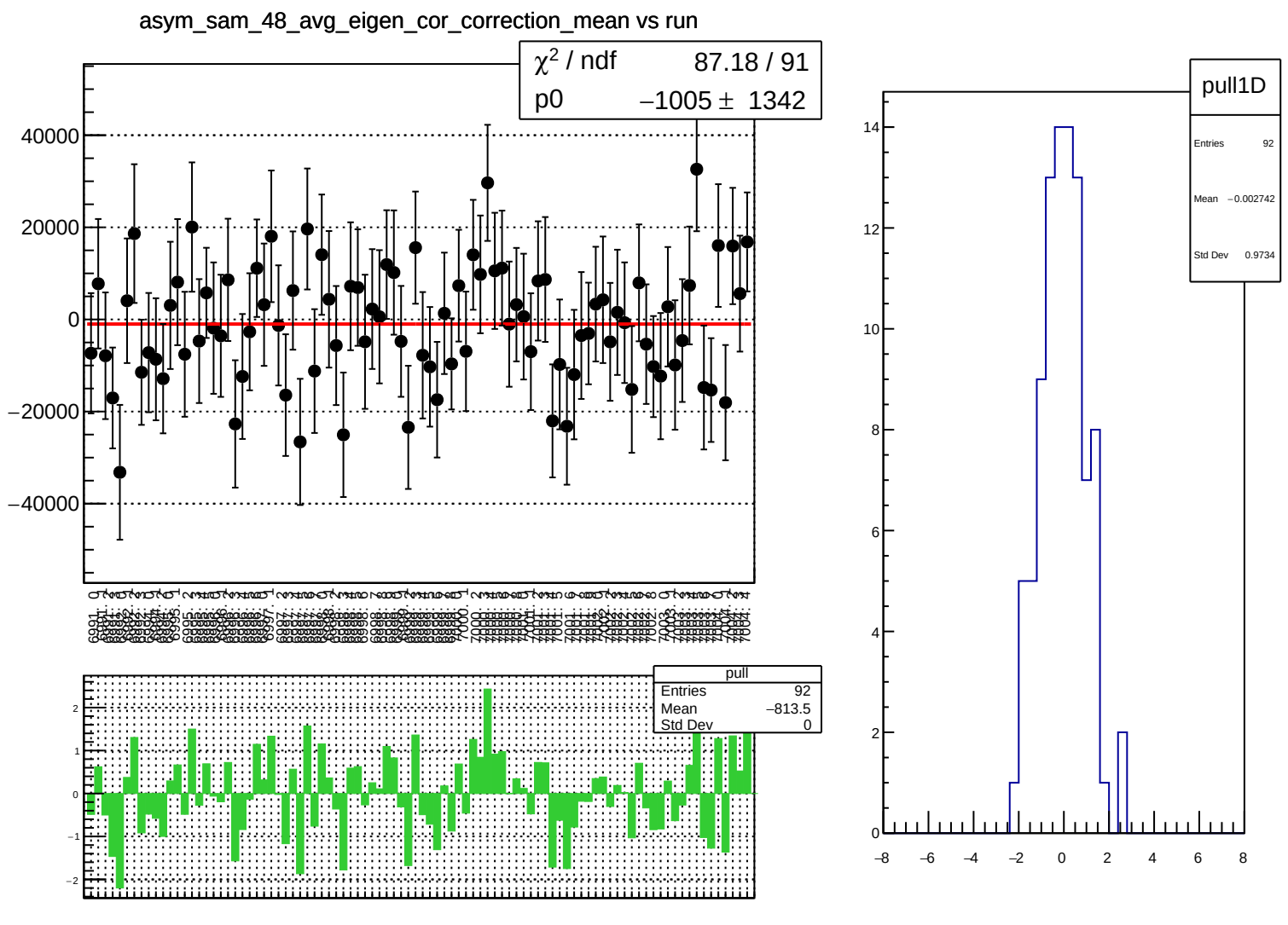

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 87.18 / 91
p0 −1005 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −813.5
Std Dev 0
2
1
0
−1
−2

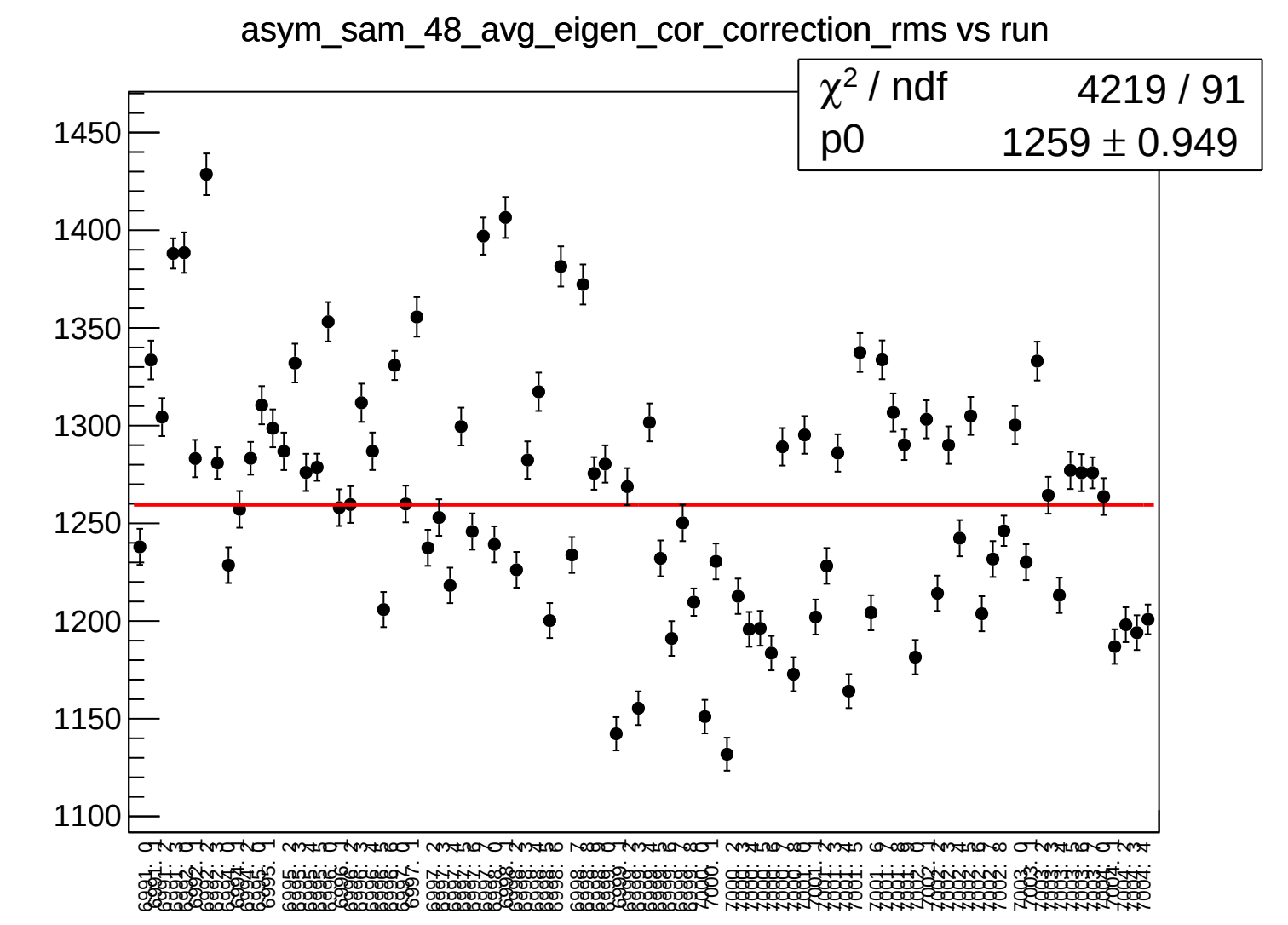

pull1D
Entries 92
Mean −0.002742
Std Dev 0.9734
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

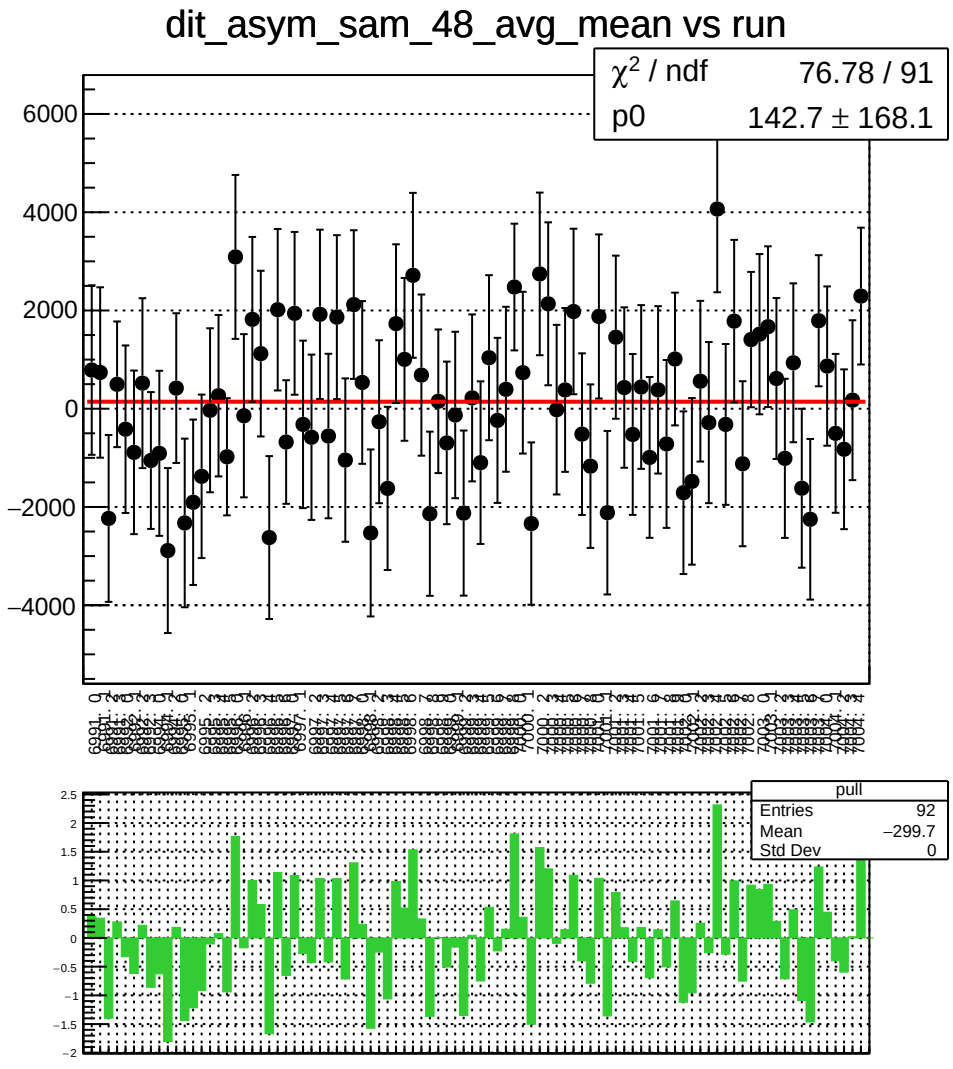

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 4219 / 91
p0 1259 ± 0.949
1450
1400
1350
1300
1250
1200
1150
1100

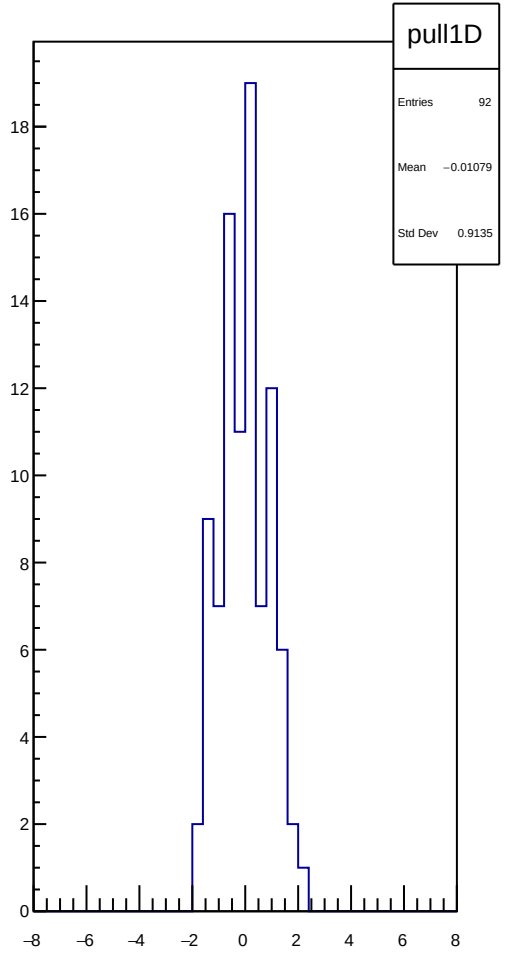

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 86.82 / 91
p0 59.93 ± 154.4
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −152.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01234
Std Dev 0.9713
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

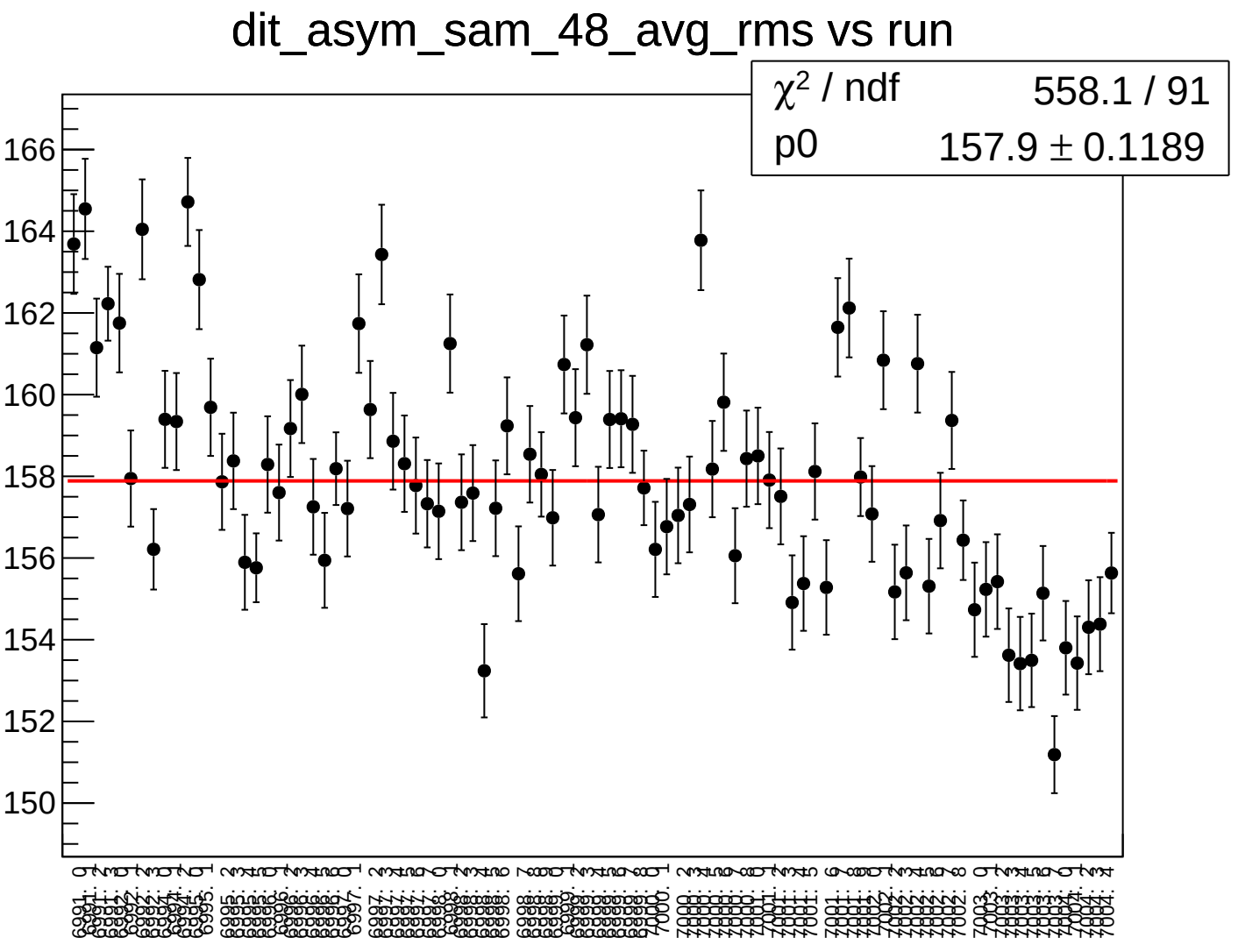

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 854.4 / 91
p0 145.1 ± 0.1092
154
152
150
148
146
144
142
140
138
136

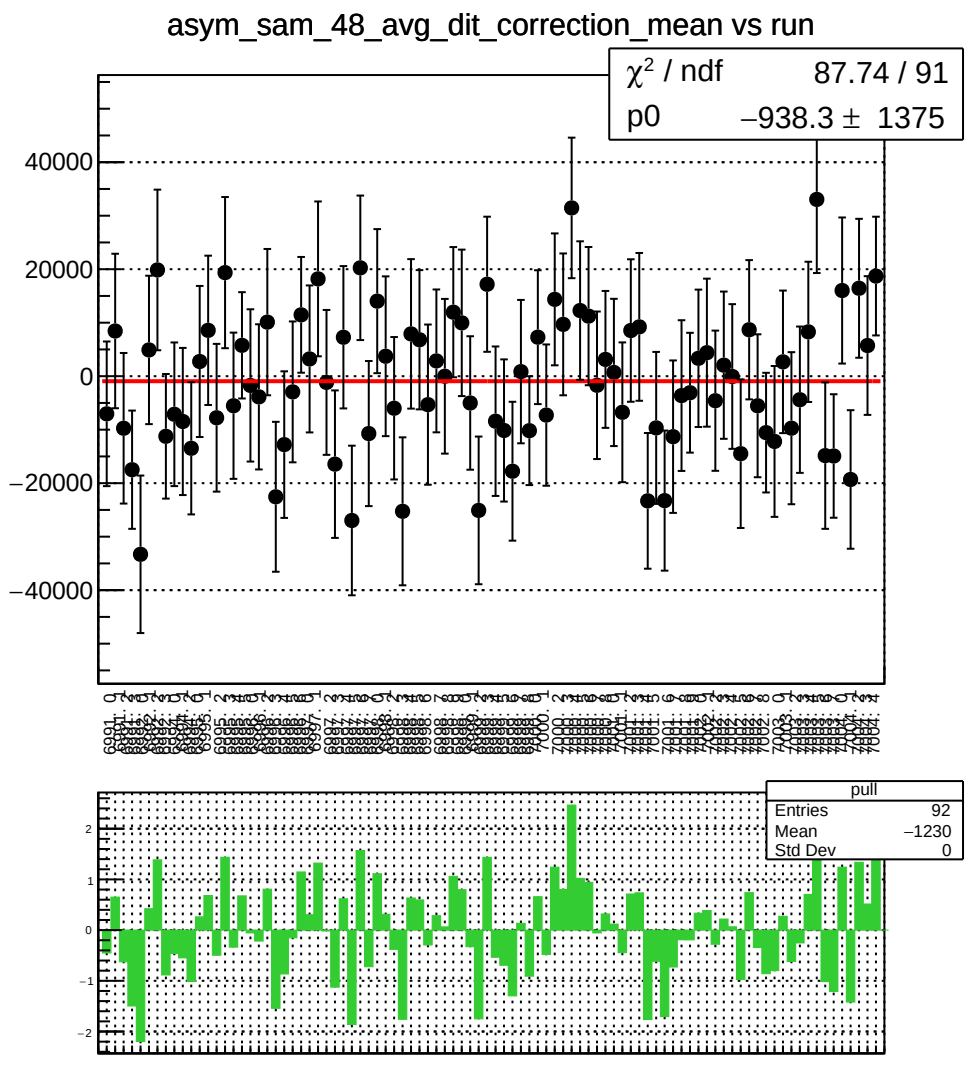

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.18 / 91
p0 −1005 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −813.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002742
Std Dev 0.9734
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

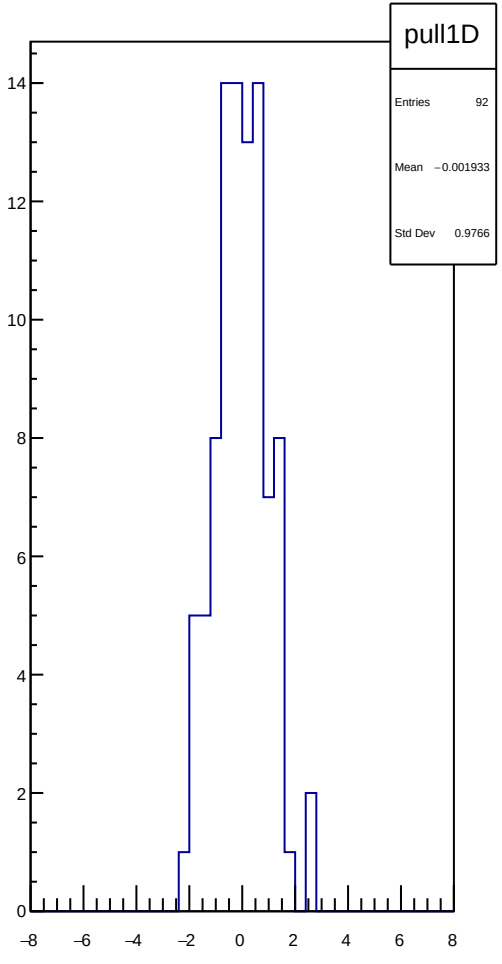

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 4219 / 91
p0 1259 ± 0.949
1450
1400
1350
1300
1250
1200
1150
1100

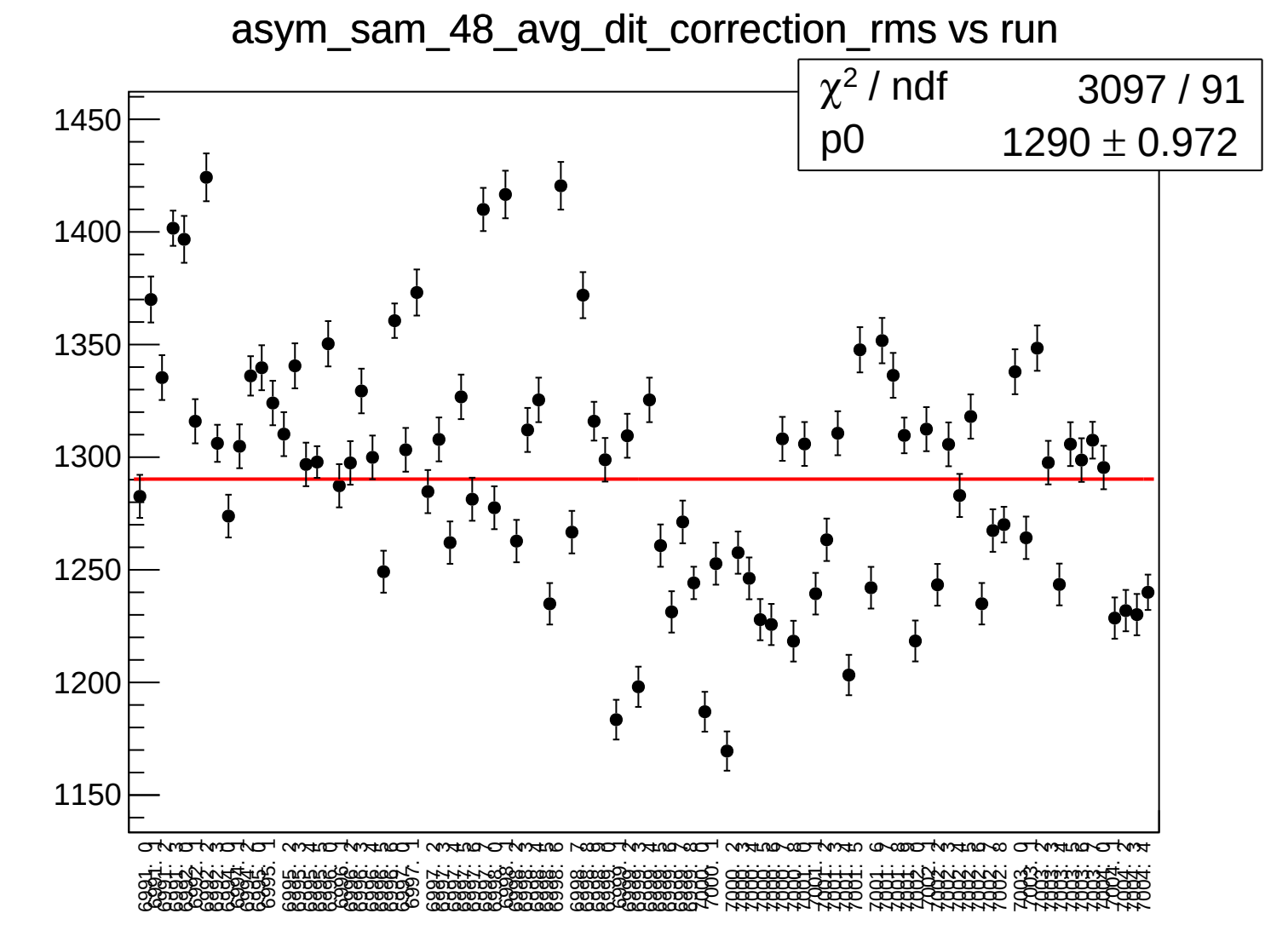

dit_asym_sam_48_avg_mean vs run
χ^2 / ndf 76.78 / 91
p0 142.7 ± 168.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −299.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

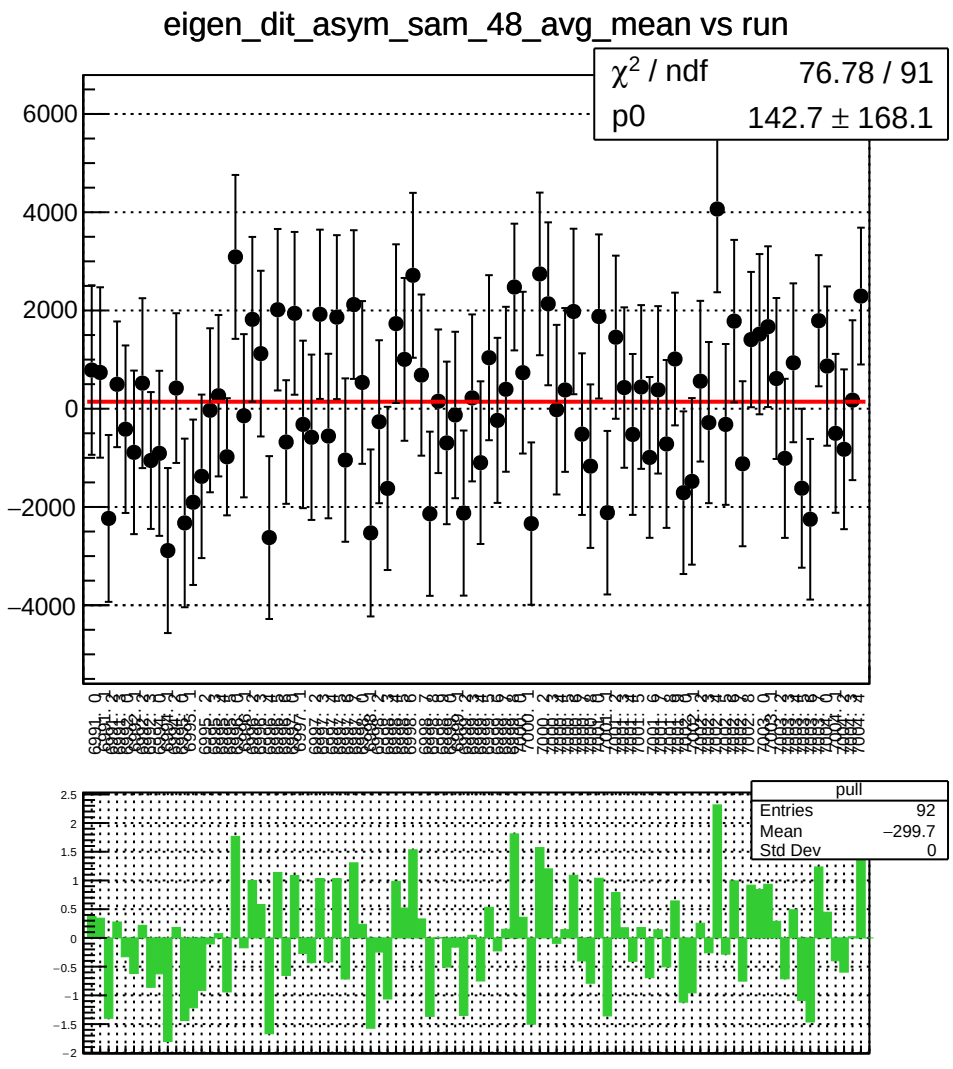

pull1D
Entries 92
Mean −0.01079
Std Dev 0.9135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

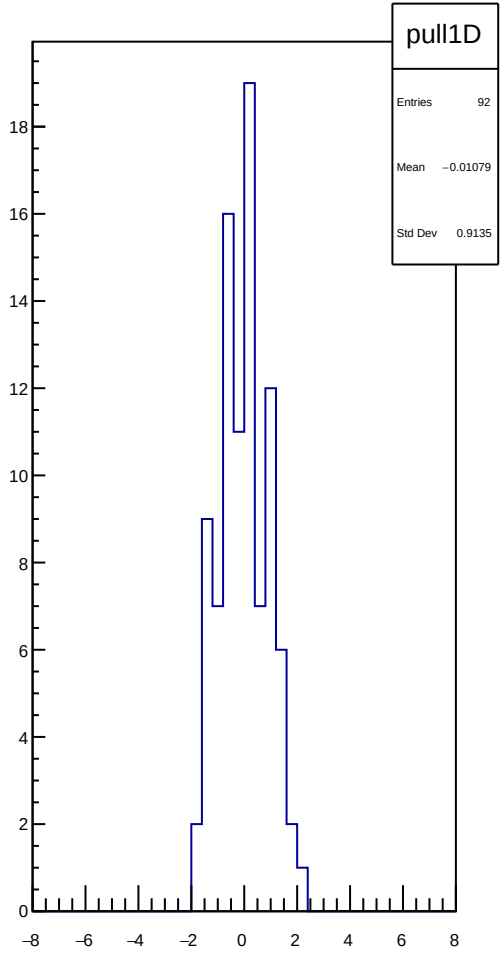

dit_asym_sam_48_avg_rms vs run
χ² / ndf 558.1 / 91
p0 157.9 ± 0.1189
166
164
162
160
158
156
154
152
150

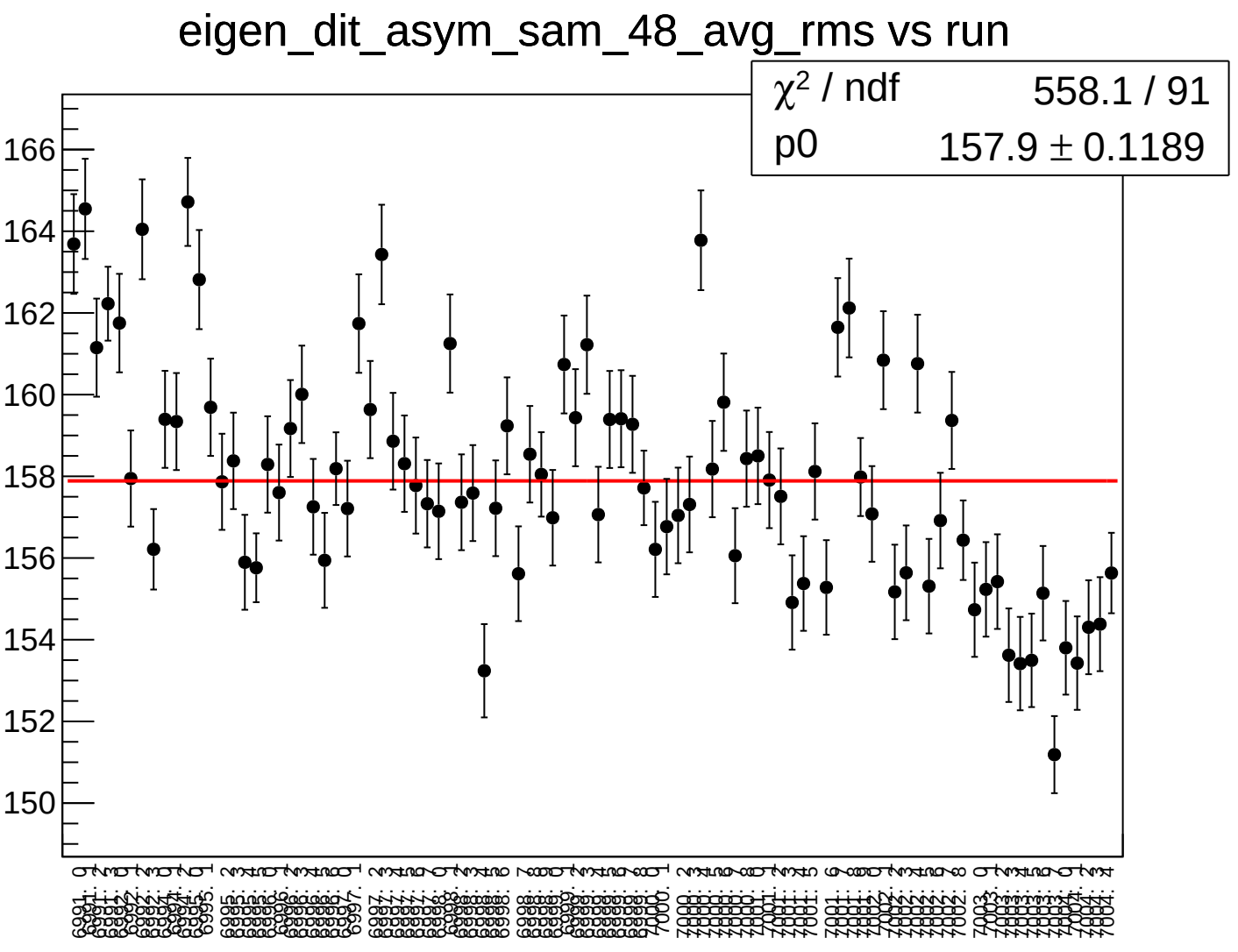

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 87.74 / 91
p0 −938.3 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −1230
Std Dev 0
2
1
0
−1
−2

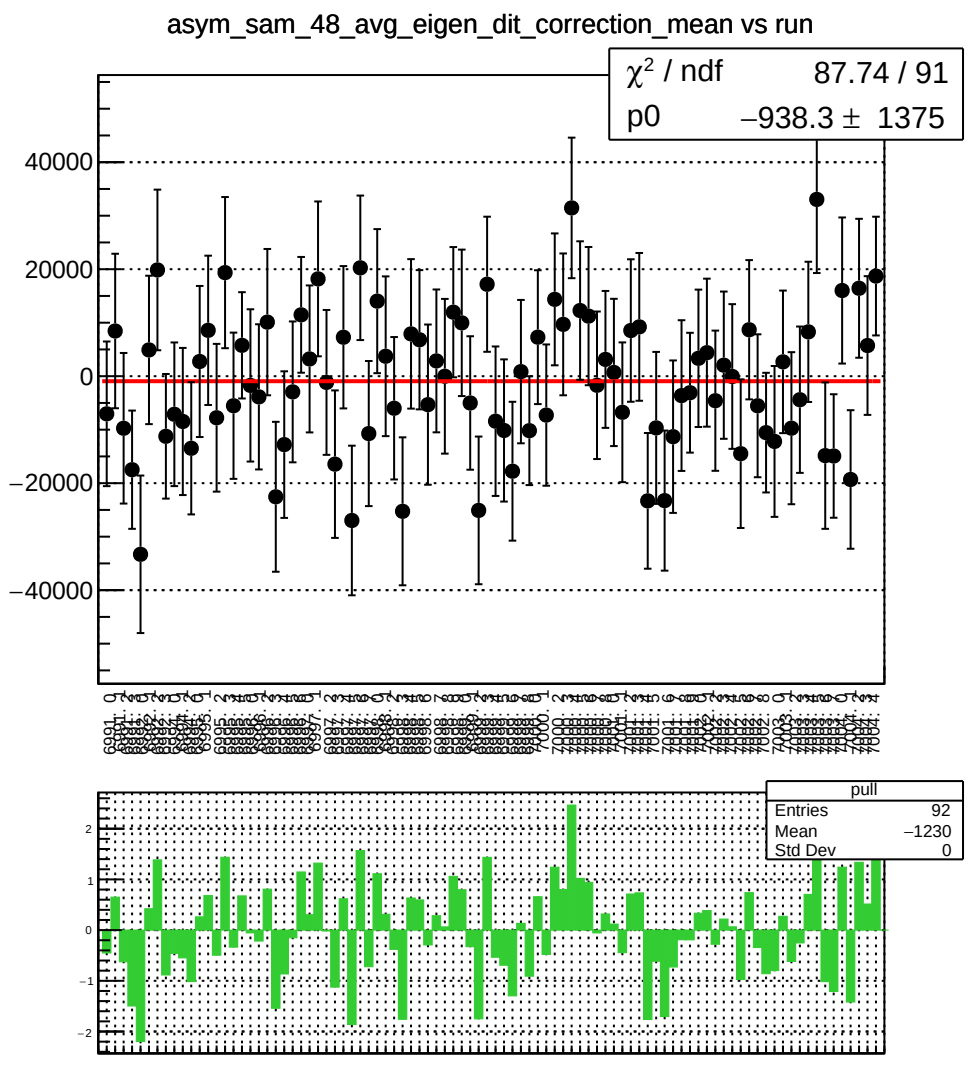

pull1D
Entries 92
Mean −0.001933
Std Dev 0.9766
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

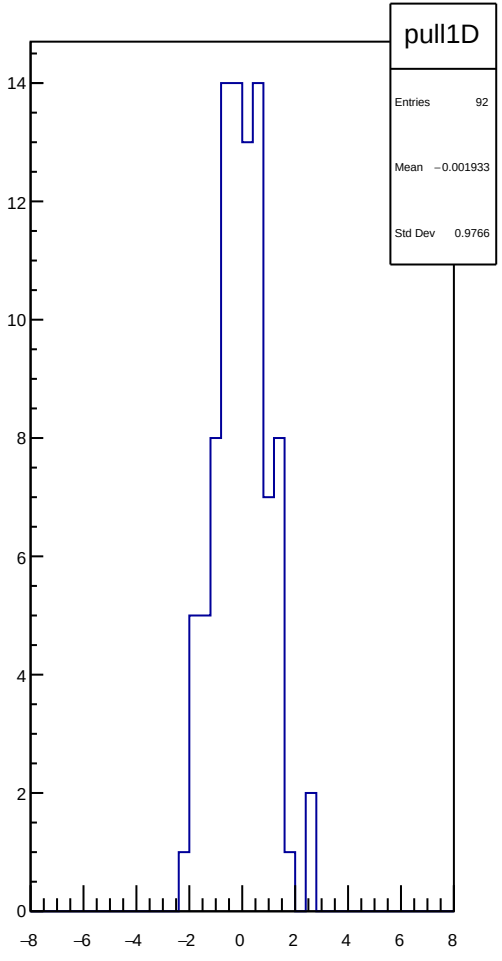

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 3097 / 91
p0 1290 ± 0.972
1450
1400
1350
1300
1250
1200
1150

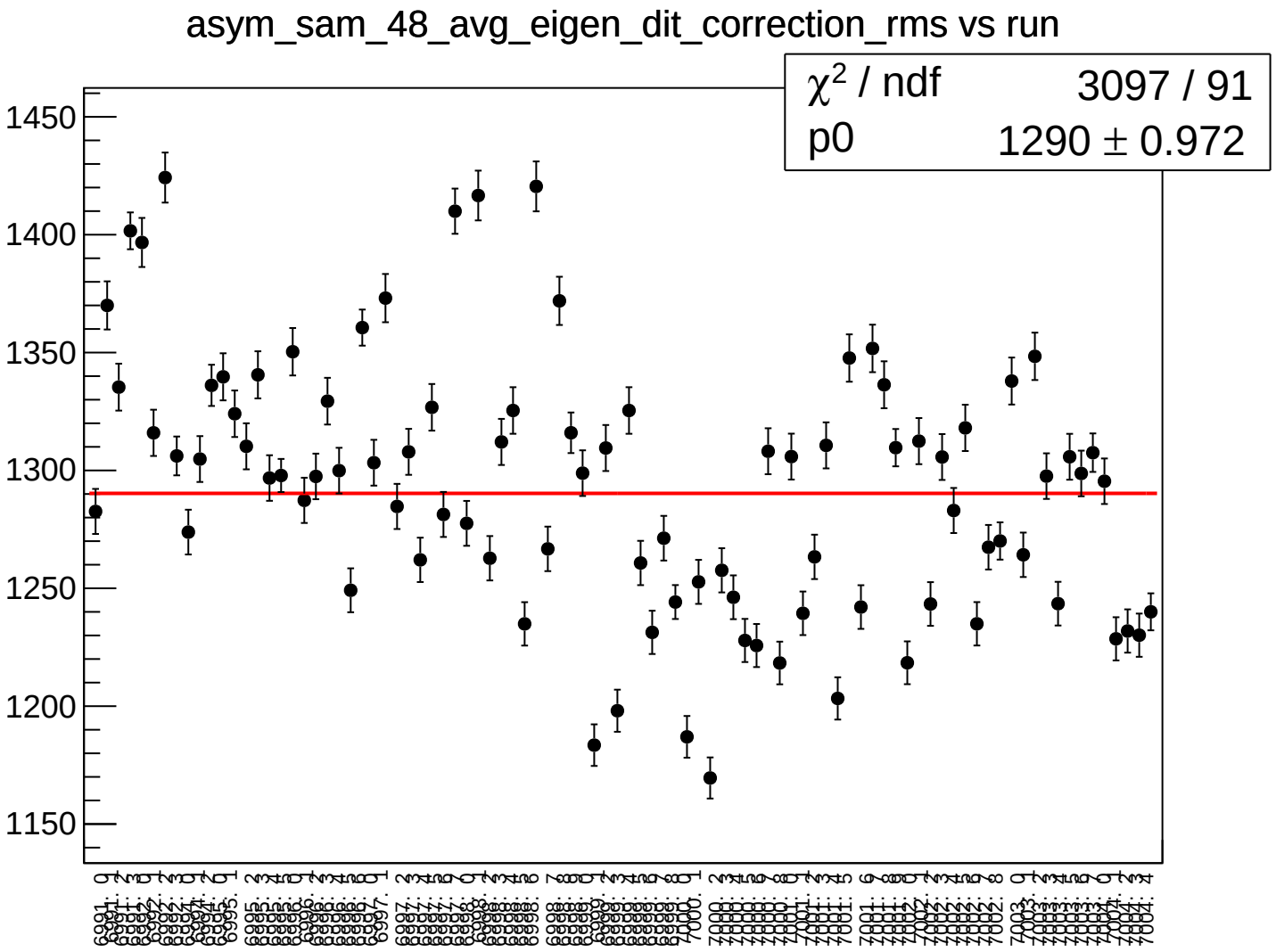

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 76.78 / 91
p0 142.7 ± 168.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −299.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

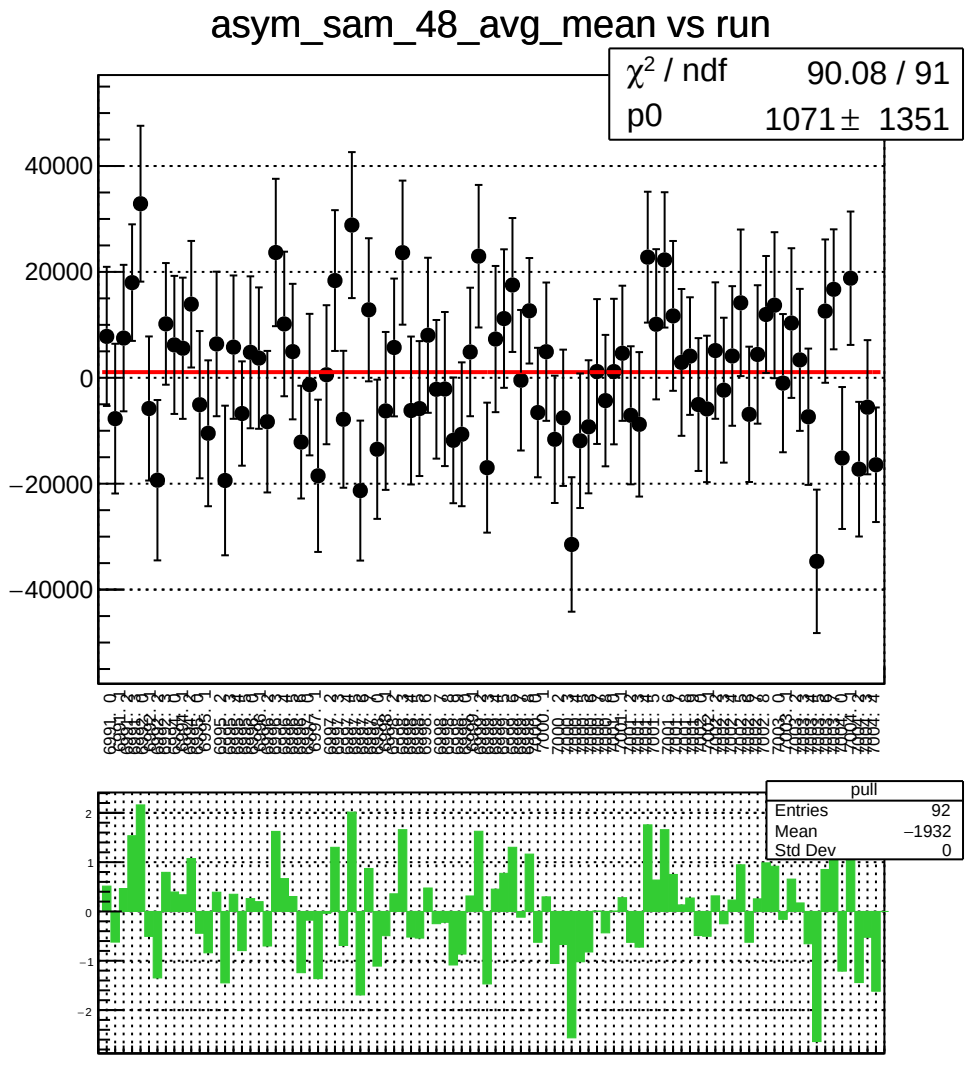

pull1D
Entries 92
Mean −0.01079
Std Dev 0.9135
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

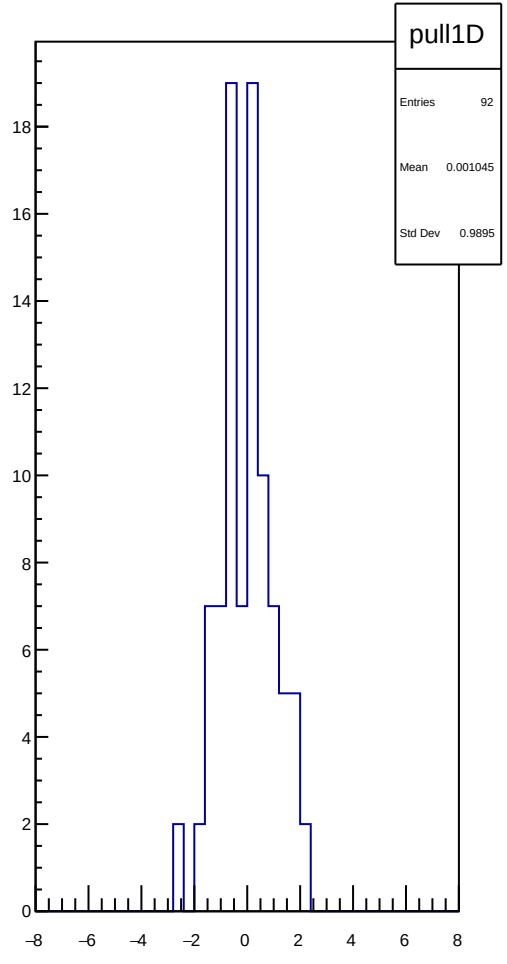

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 558.1 / 91
p0 157.9 ± 0.1189
166
164
162
160
158
156
154
152
150

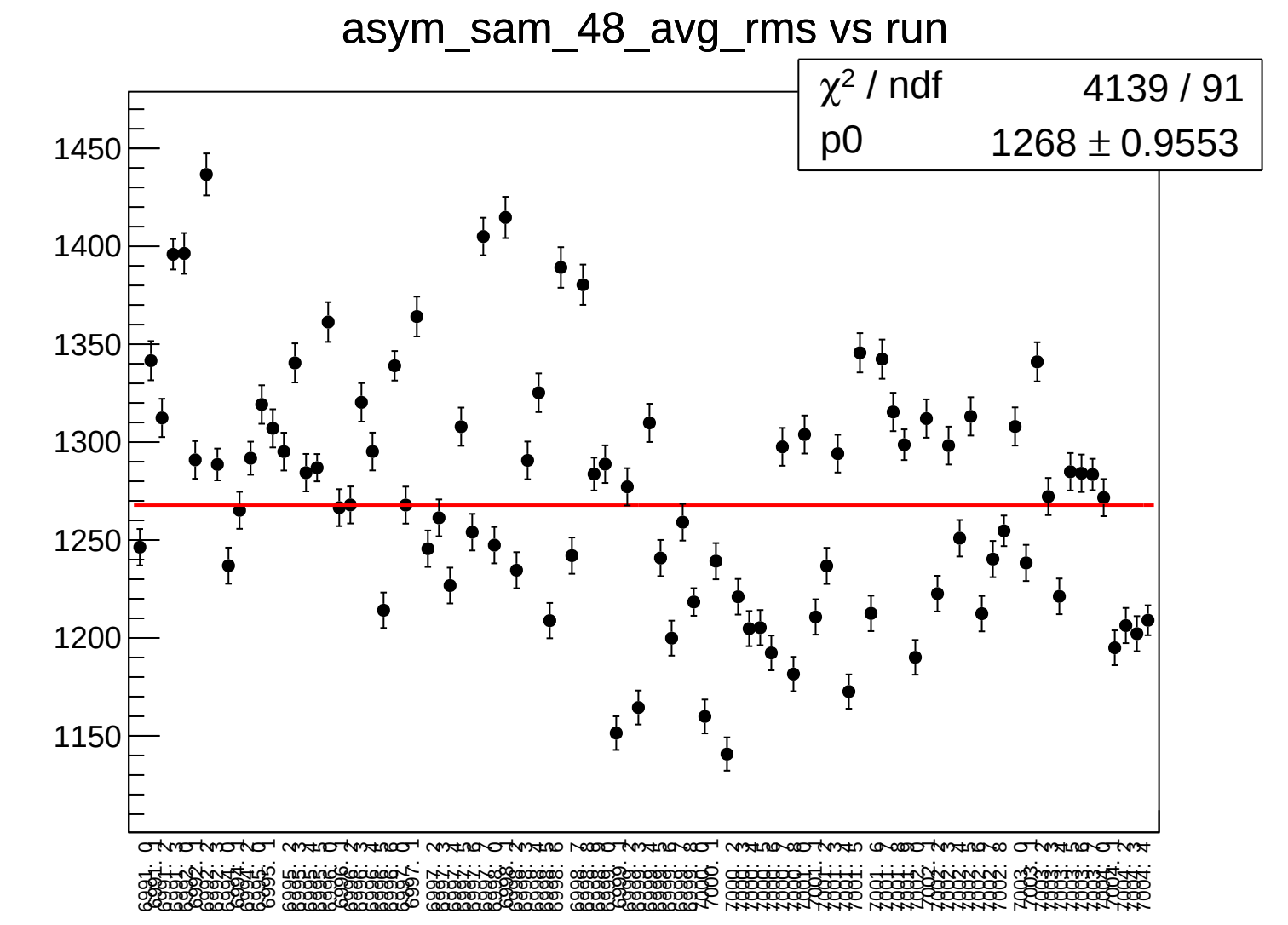

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.74 / 91
p0 −938.3 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −1230
Std Dev 0
2
1
0
−1
−2

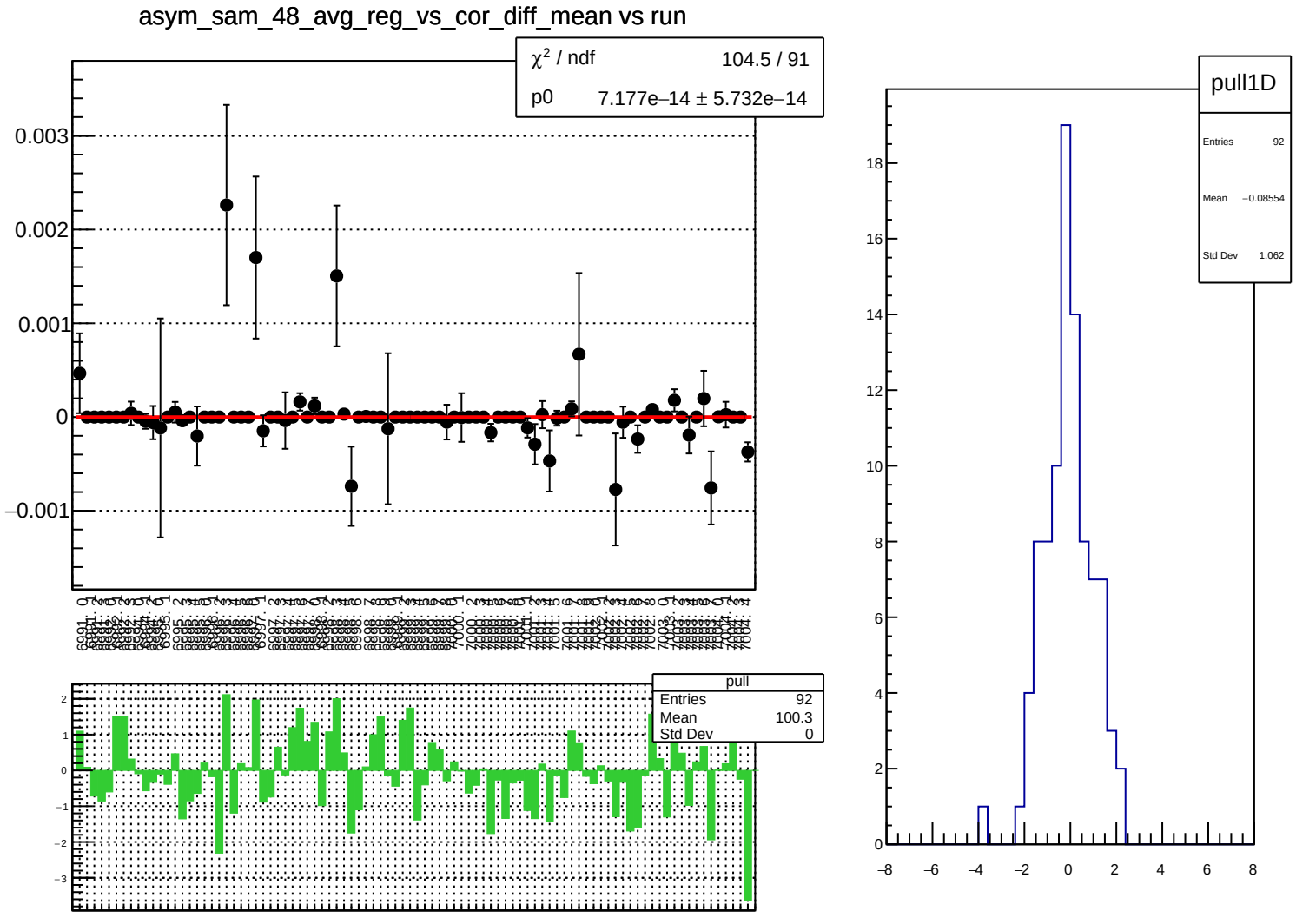

pull1D
Entries 92
Mean −0.001933
Std Dev 0.9766
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

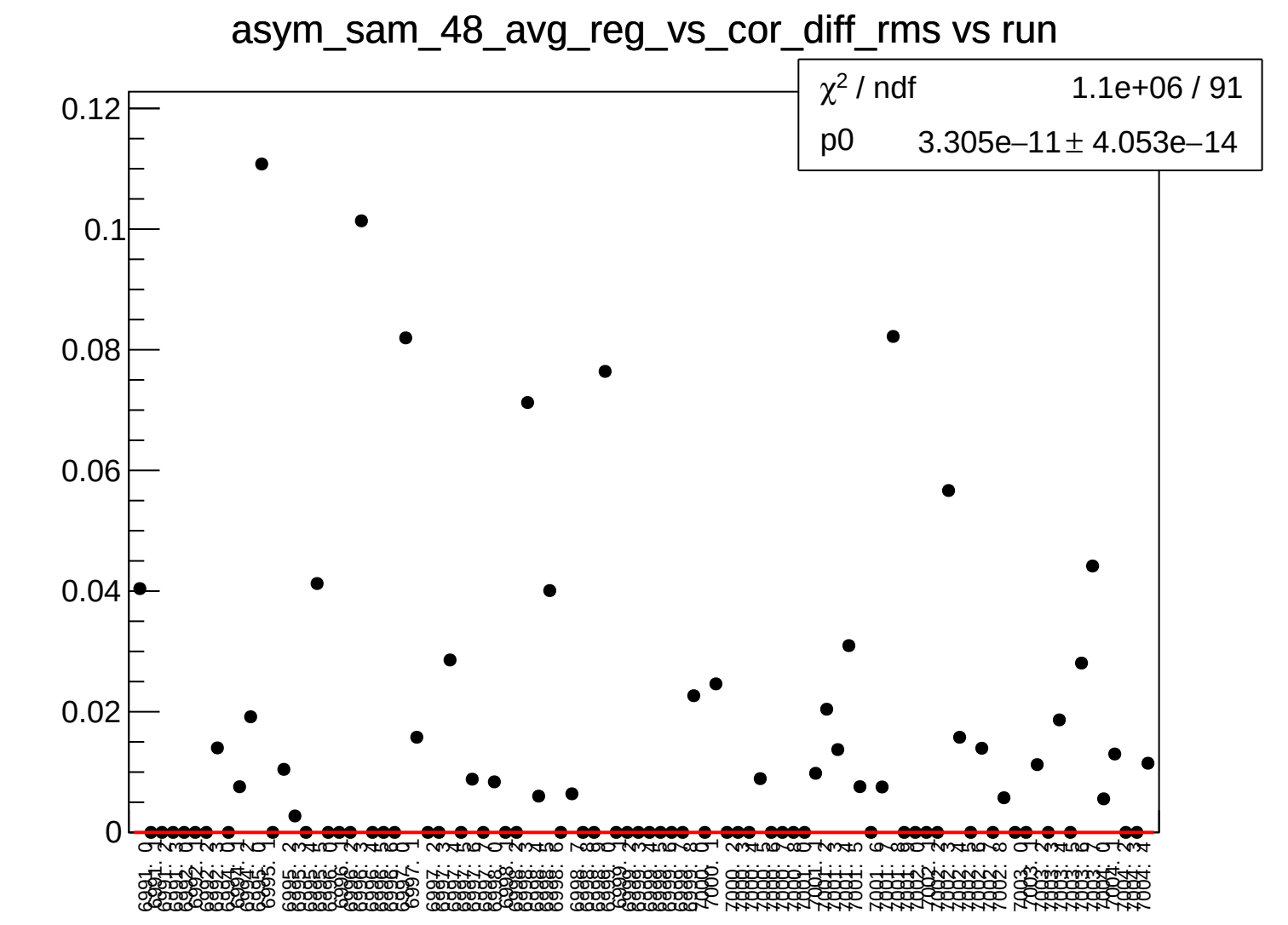

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 3097 / 91
p0 1290 ± 0.972
1450
1400
1350
1300
1250
1200
1150

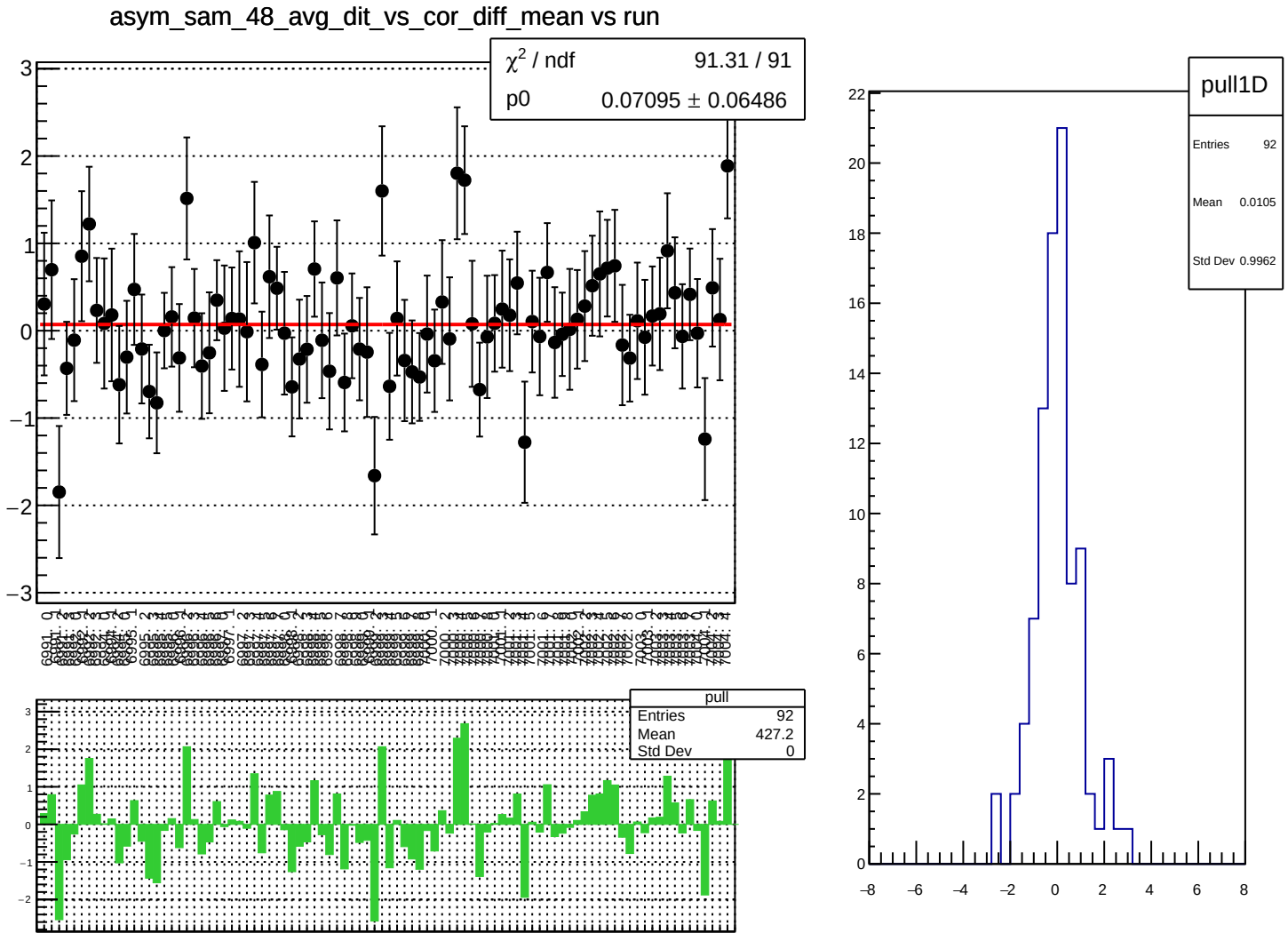

asym_sam_48_avg_mean vs run
χ² / ndf 90.08 / 91
p0 1071 ± 1351
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −1932
Std Dev 0
2
1
0
−1
−2

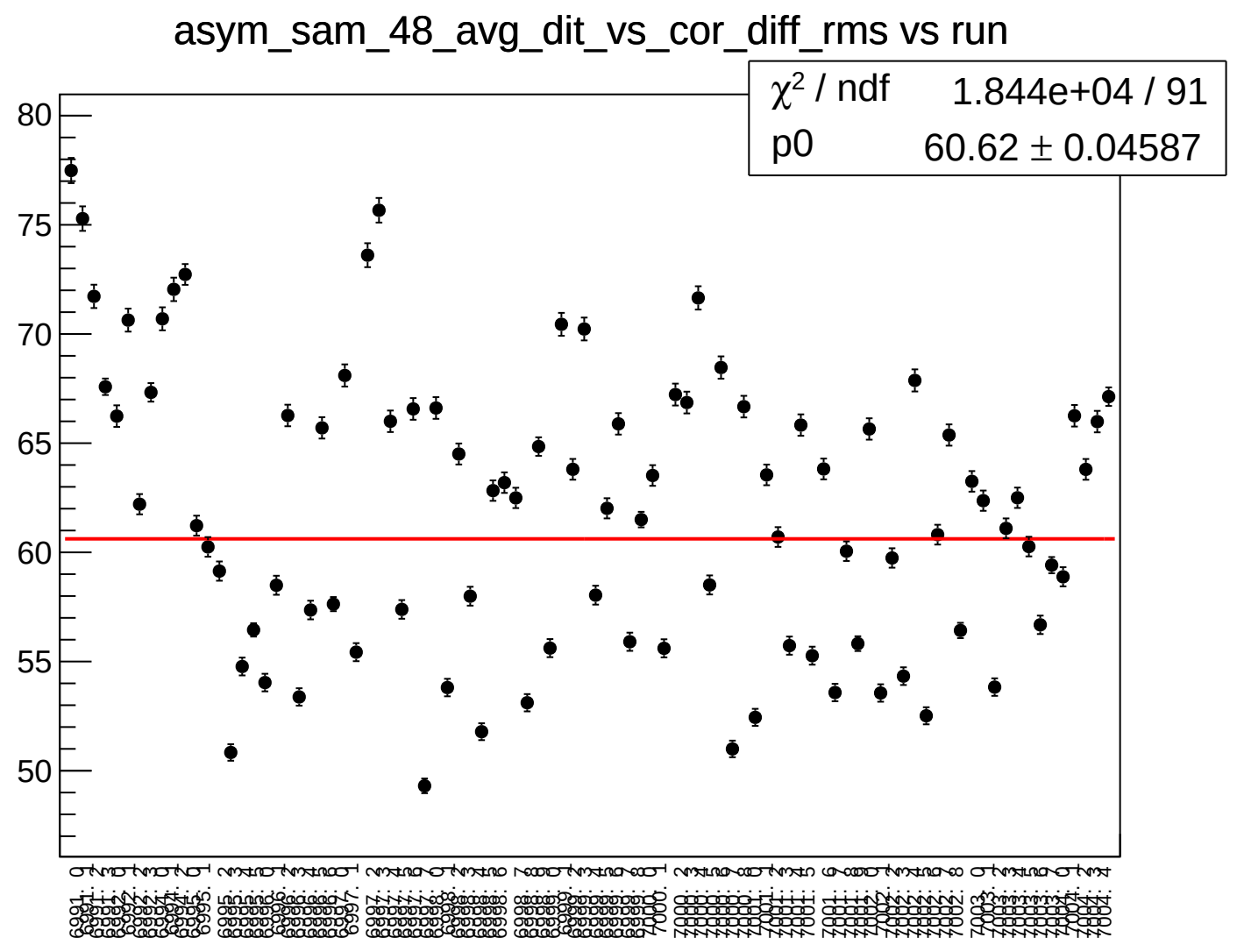

pull1D
Entries 92
Mean 0.001045
Std Dev 0.9895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

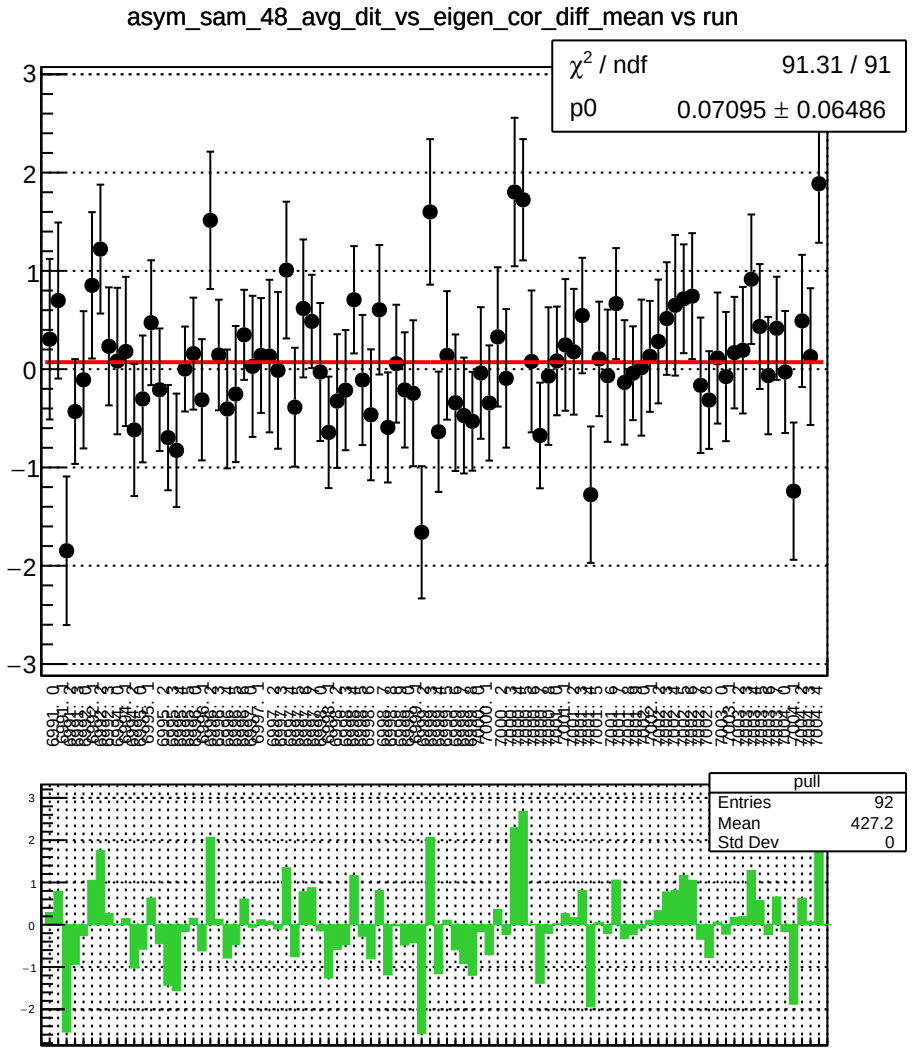

asym_sam_48_avg_rms vs run
χ² / ndf 4139 / 91
p0 1268 ± 0.9553
1450
1400
1350
1300
1250
1200
1150

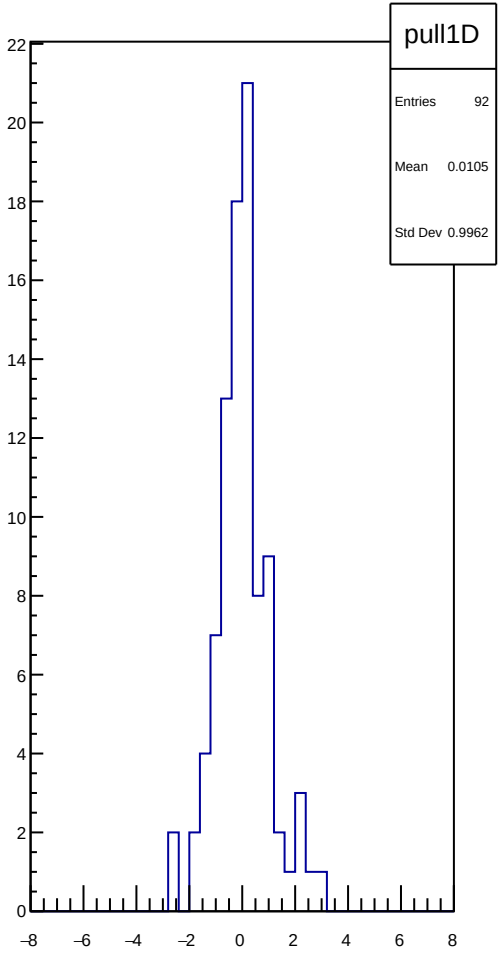

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 91
p0 7.177e−14 ± 5.732e−14
0.003
0.002
0.001
0
−0.001
pull
Entries 92
Mean 100.3
Std Dev 0
pull1D
Entries 92
Mean −0.08554
Std Dev 1.062

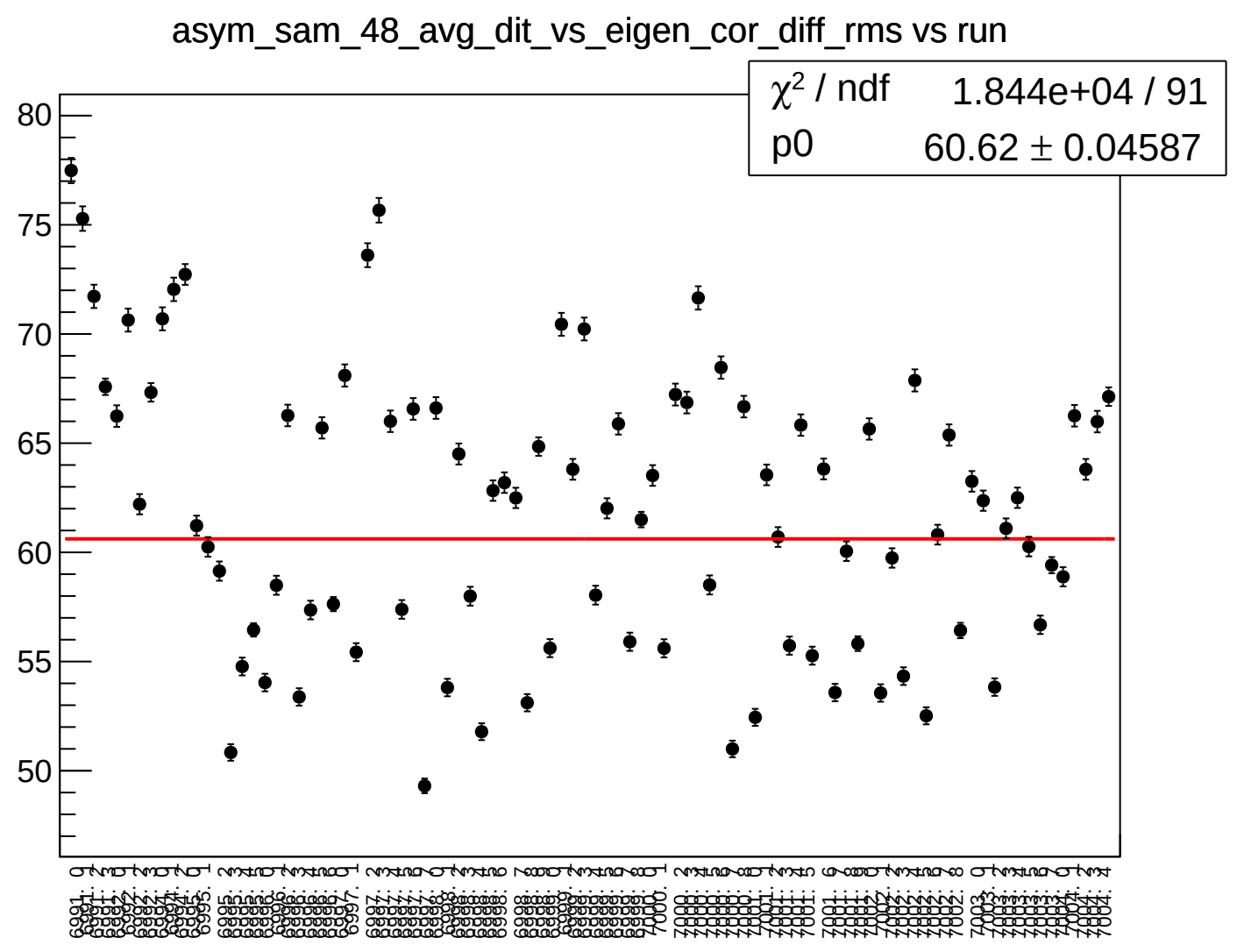

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.1e+06 / 91
p0 3.305e−11 ± 4.053e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

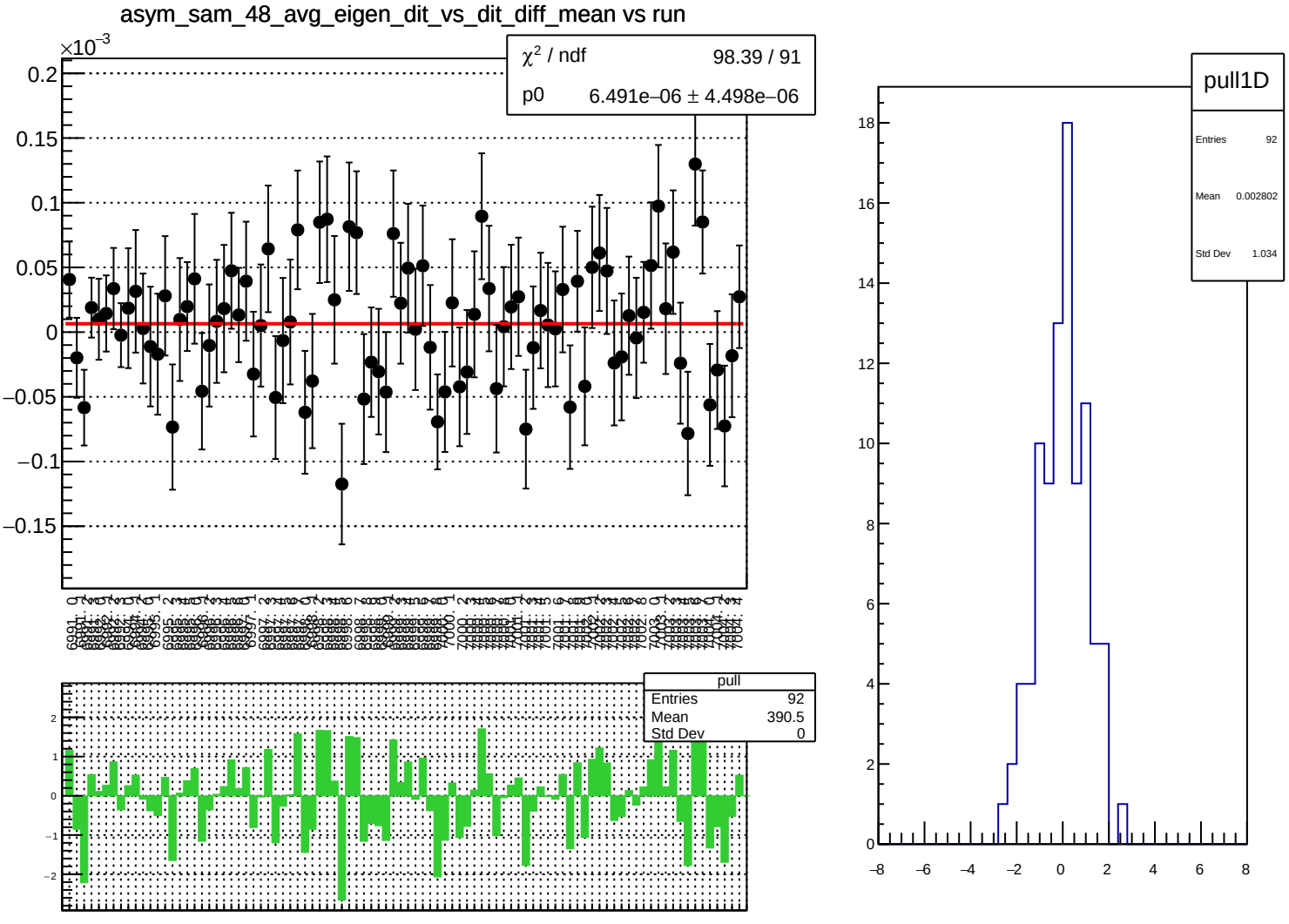

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.31 / 91
p0 0.07095 ± 0.06486
pull
Entries 92
Mean 427.2
Std Dev 0
pull1D
Entries 92
Mean 0.0105
Std Dev 0.9962

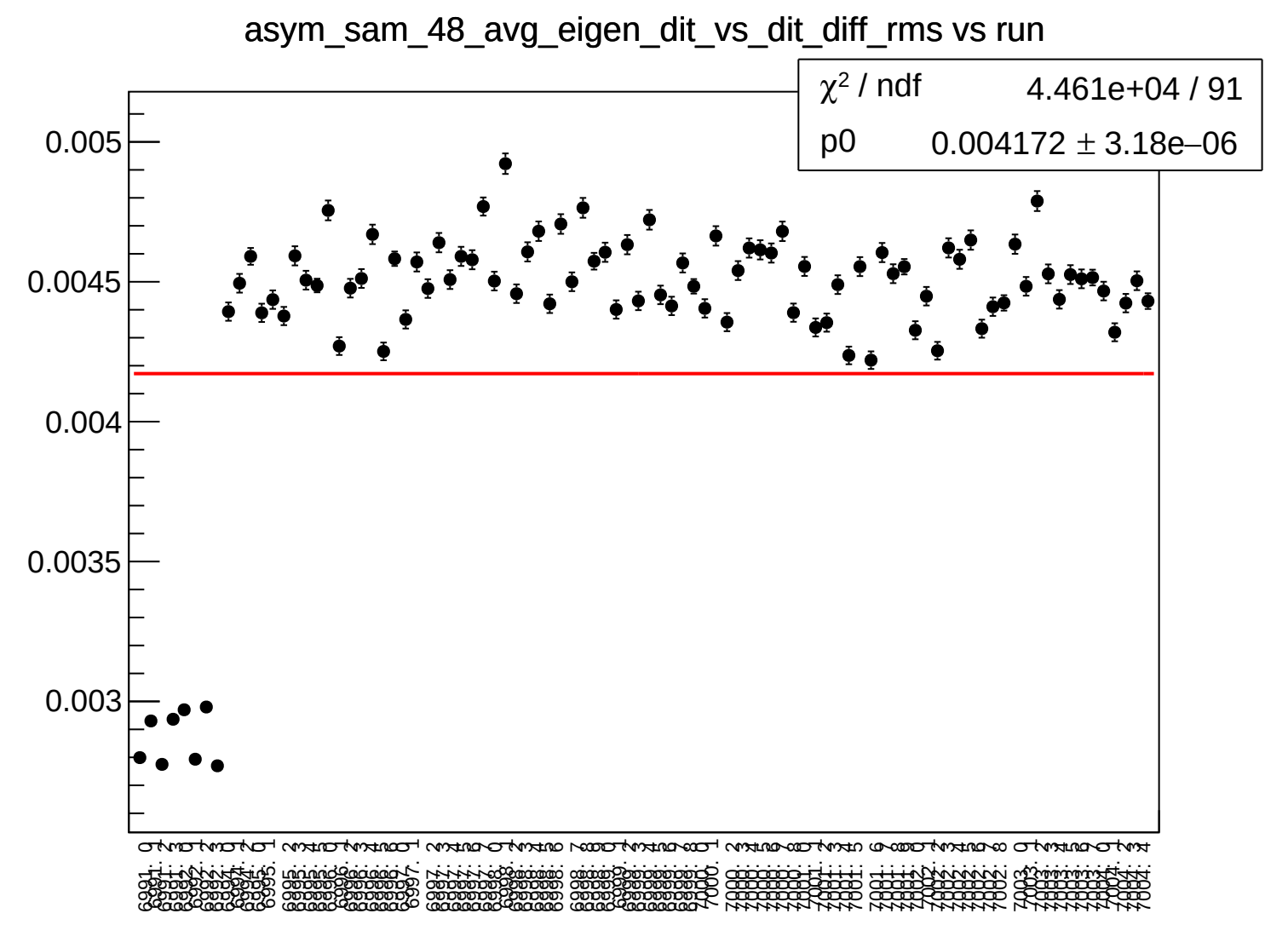

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.844e+04 / 91
p0 60.62 ± 0.04587
80
75
70
65
60
55
50

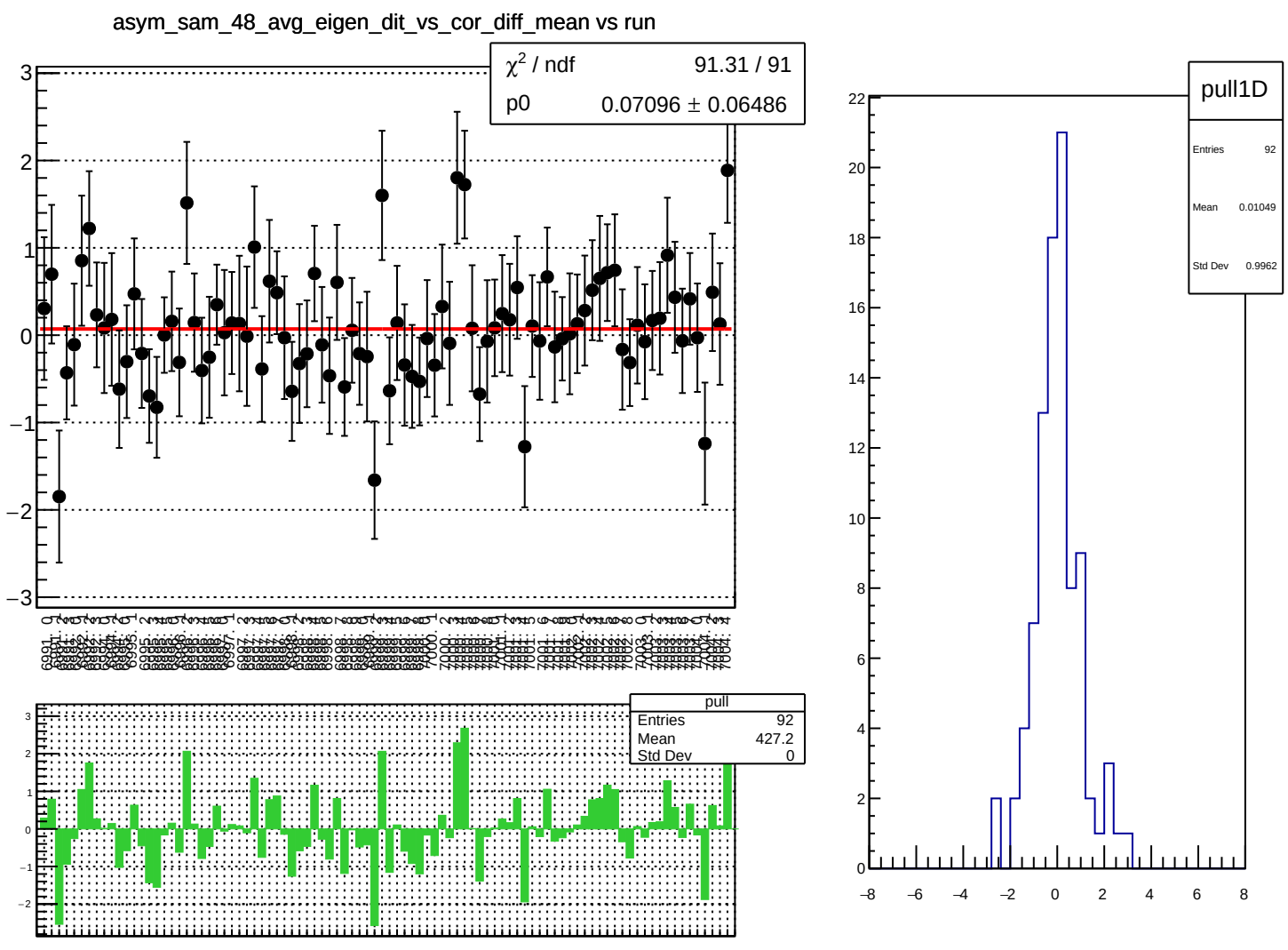

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.31 / 91
p0 0.07095 ± 0.06486
pull
Entries 92
Mean 427.2
Std Dev 0

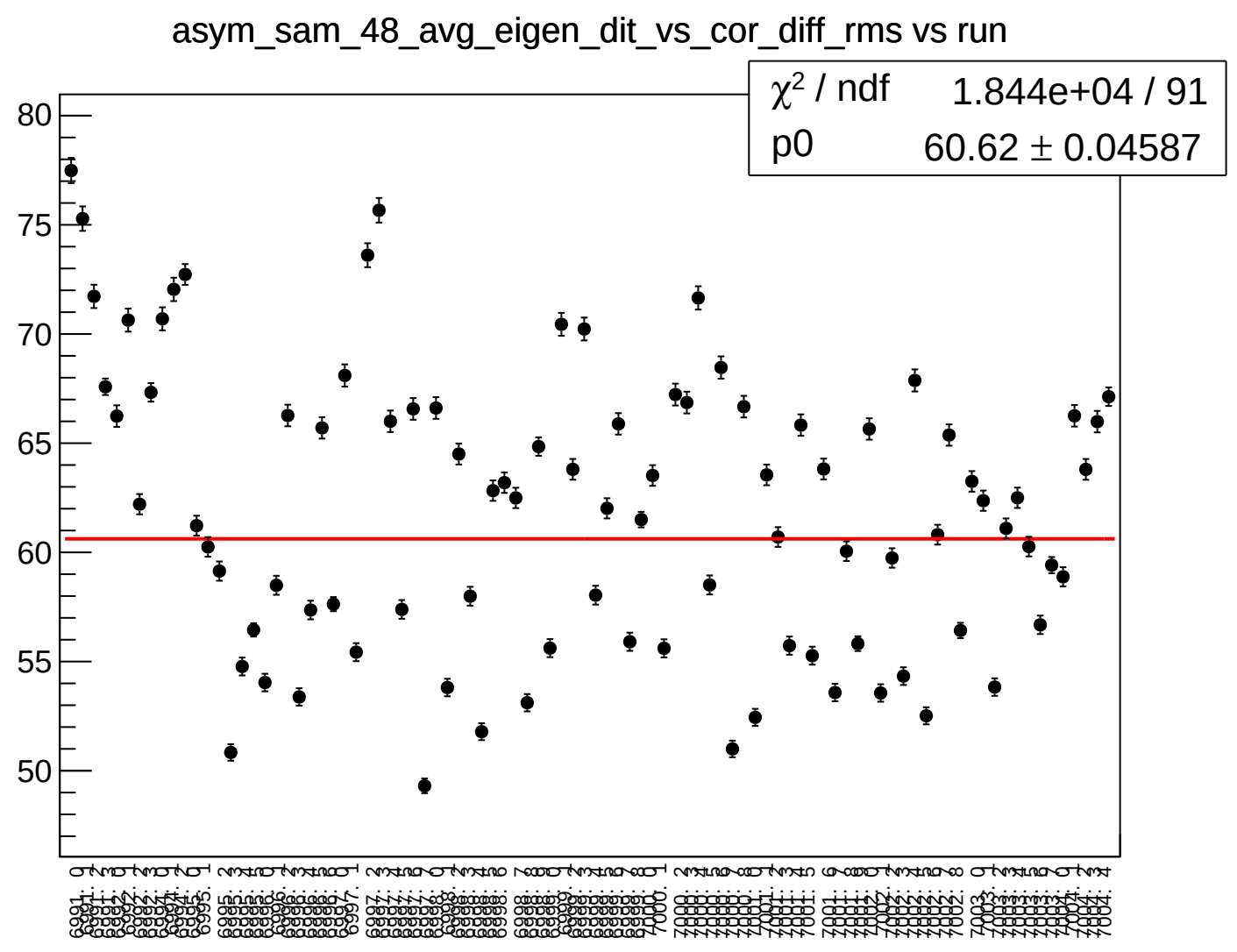

pull1D
Entries 92
Mean 0.0105
Std Dev 0.9962

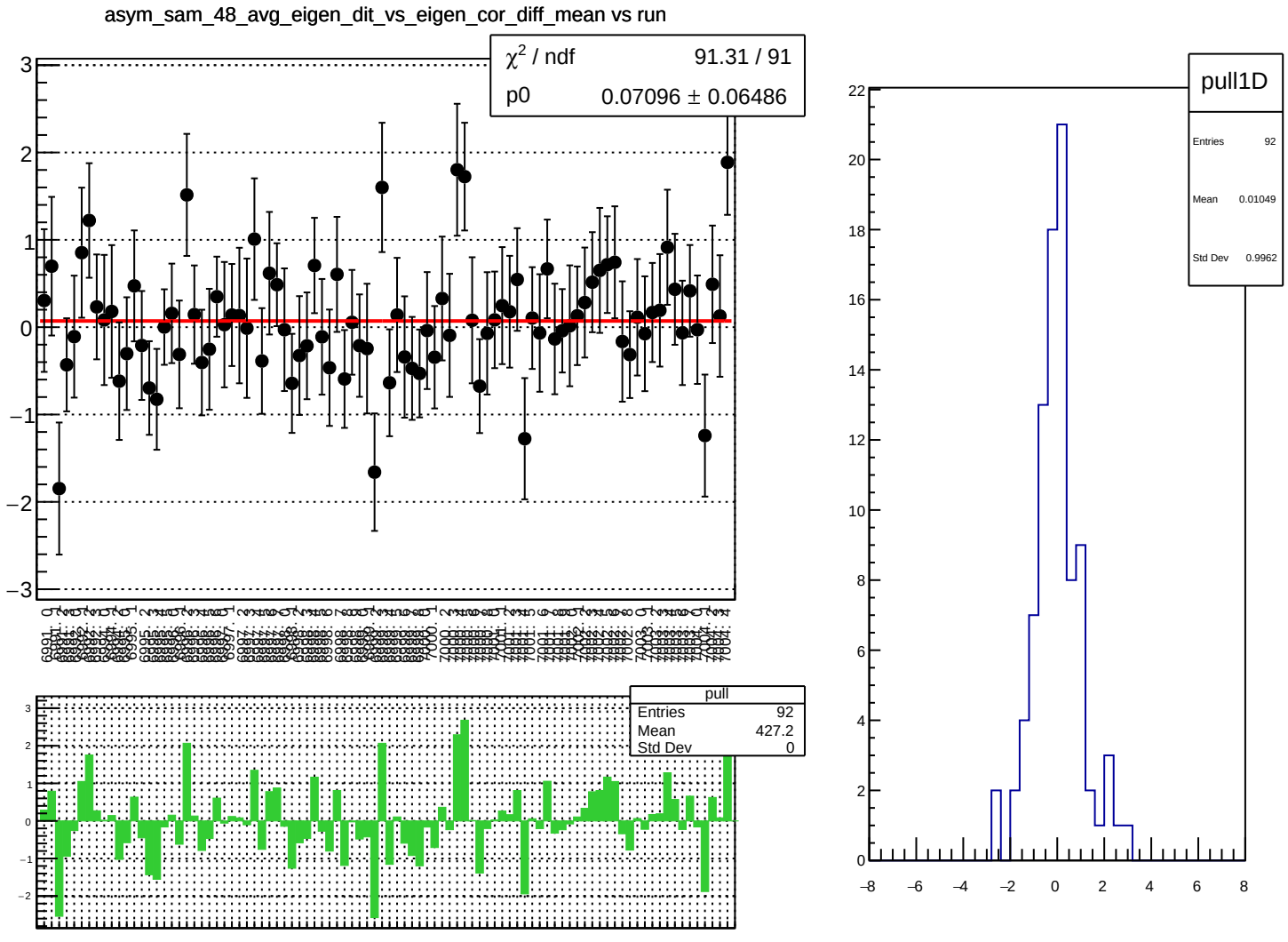

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.844e+04 / 91
p0 60.62 ± 0.04587
80
75
70
65
60
55
50

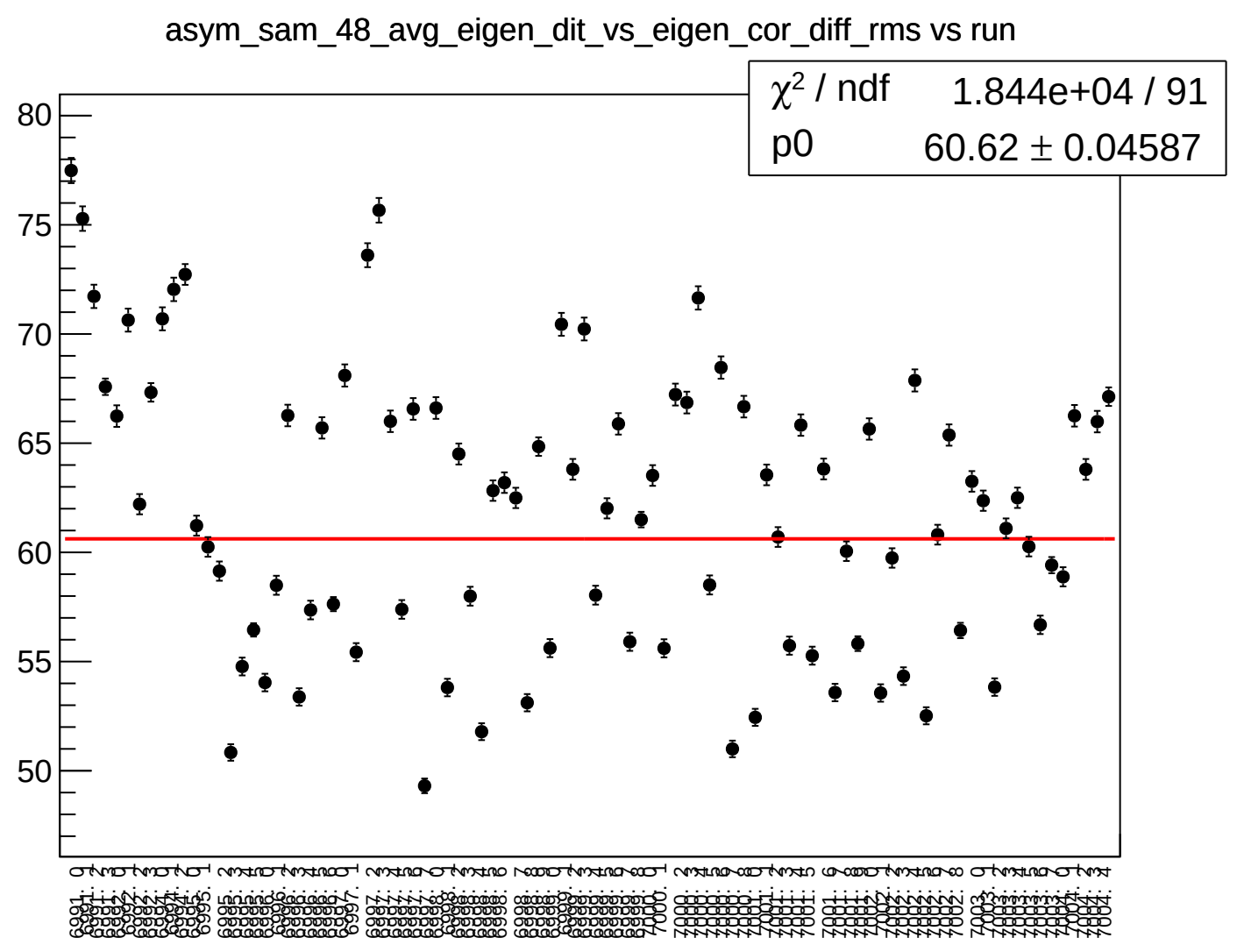

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.39 / 91
p0 6.491e−06 ± 4.498e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean 390.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002802
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

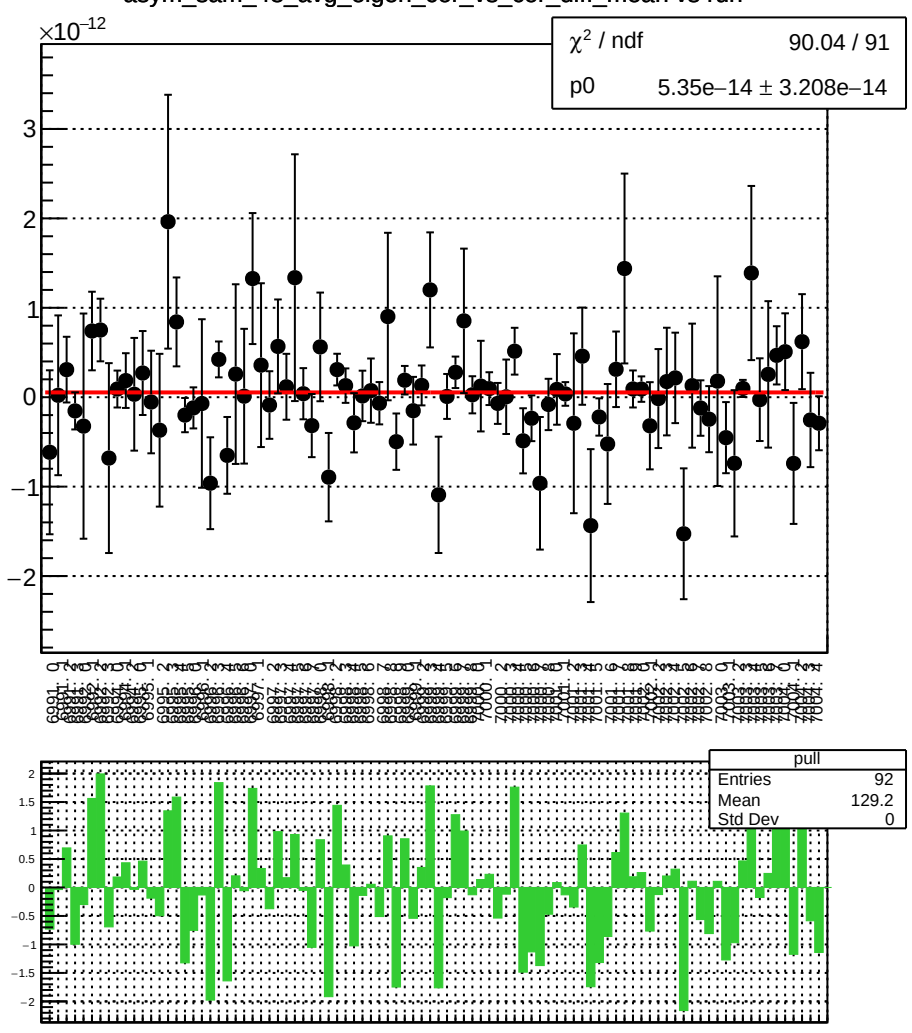

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.461e+04 / 91
p0 0.004172 ± 3.18e−06
0.005
0.0045
0.004
0.0035
0.003

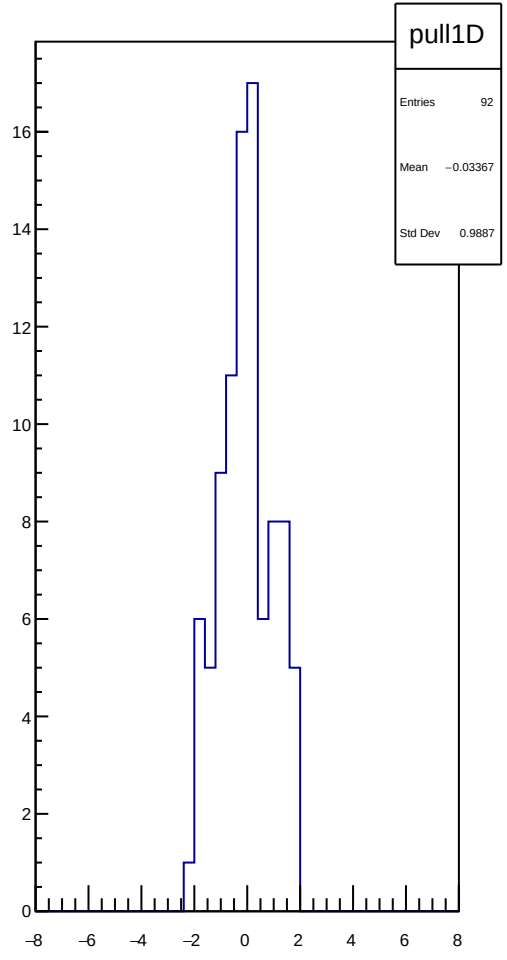

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.31 / 91
p0 0.07096 ± 0.06486
pull
Entries 92
Mean 427.2
Std Dev 0
pull1D
Entries 92
Mean 0.01049
Std Dev 0.9962

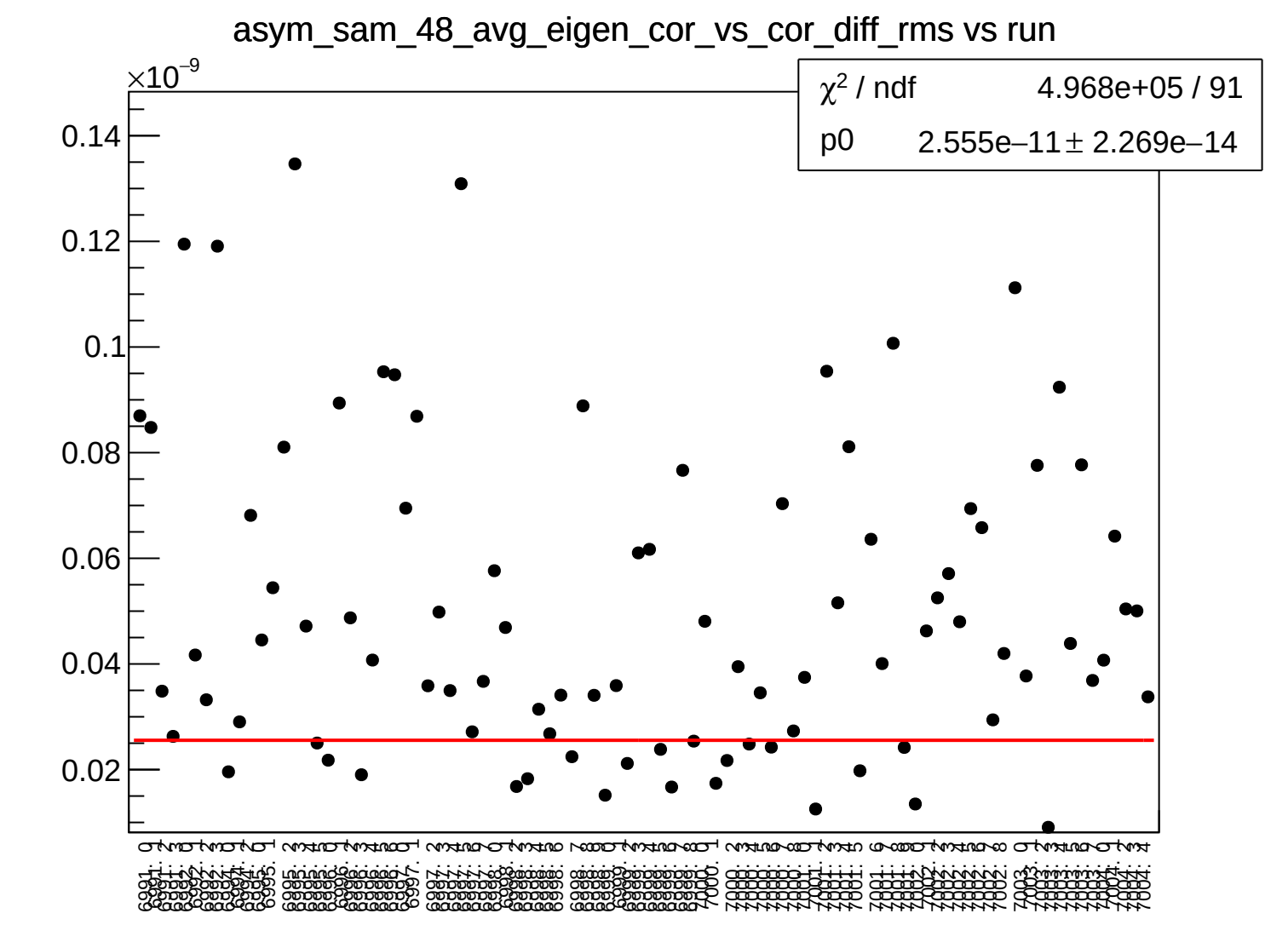

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.844e+04 / 91
p0 60.62 ± 0.04587
80
75
70
65
60
55
50

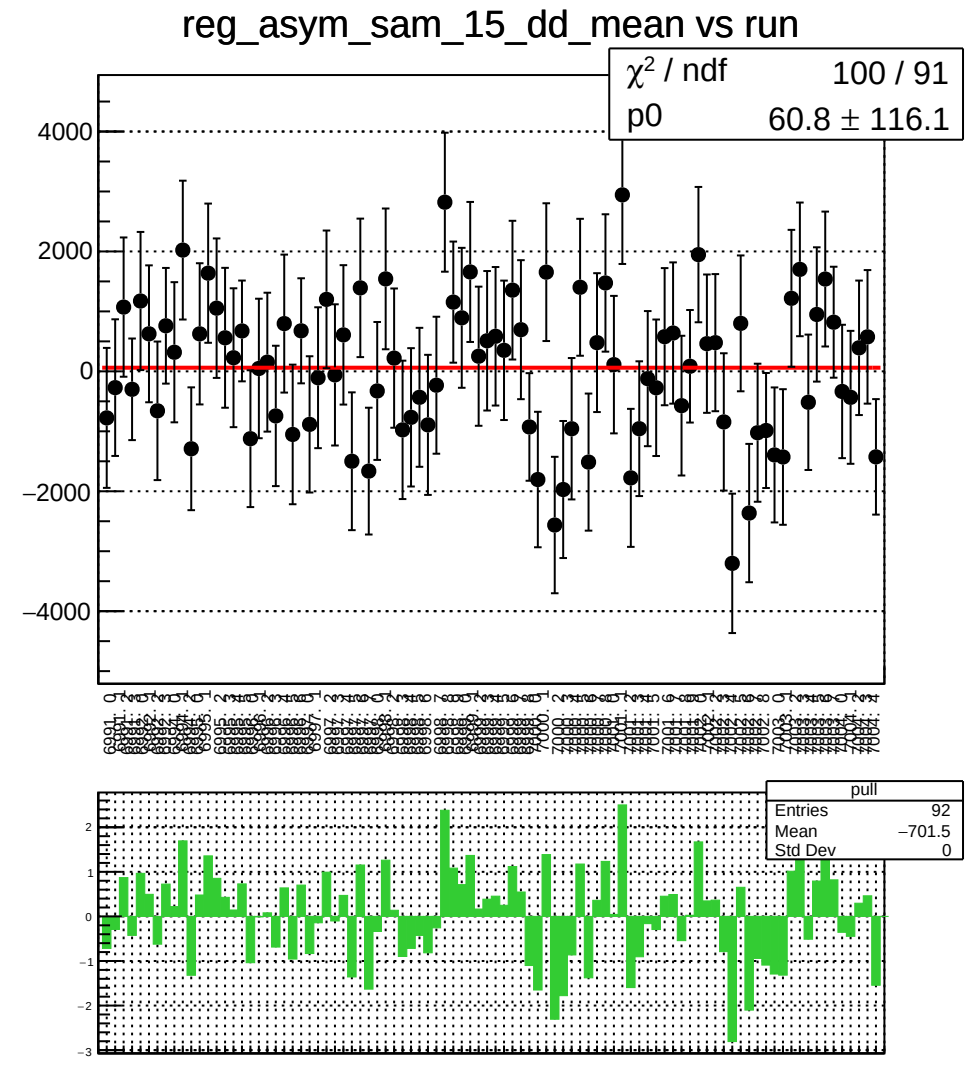

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.31 / 91
p0 0.07096 ± 0.06486
pull
Entries 92
Mean 427.2
Std Dev 0
pull1D
Entries 92
Mean 0.01049
Std Dev 0.9962

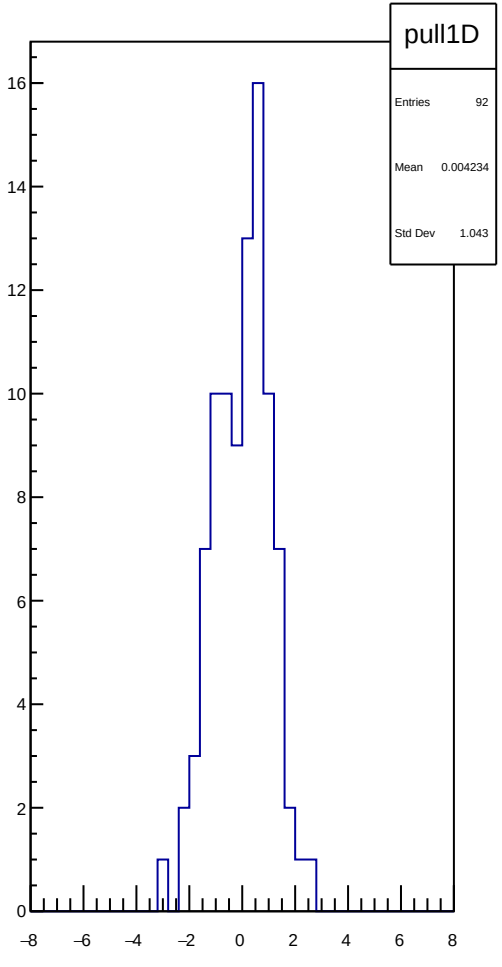

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.844e+04 / 91
p0 60.62 ± 0.04587
80
75
70
65
60
55
50

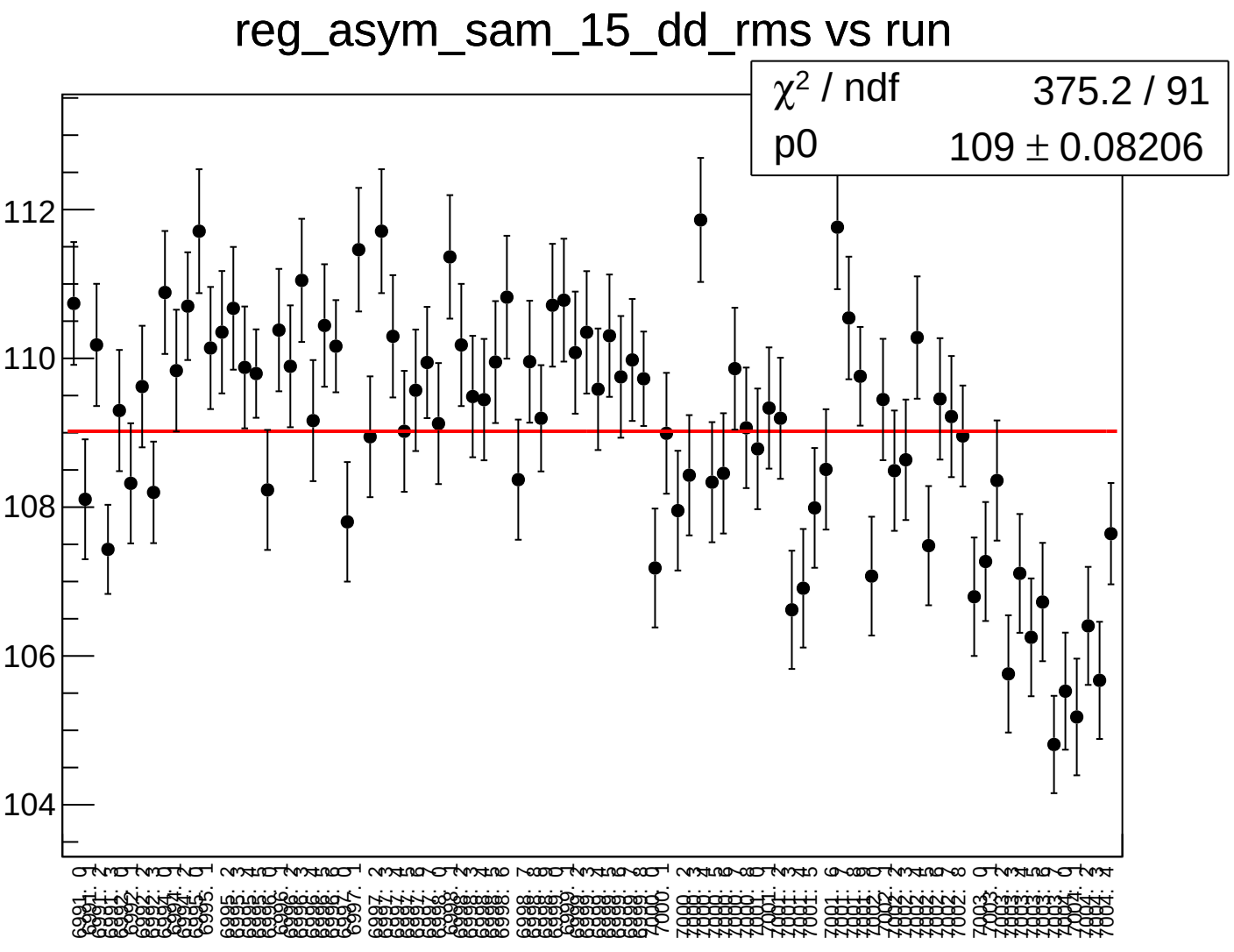

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.04 / 91
p0 5.35e−14 ± 3.208e−14
pull
Entries 92
Mean 129.2
Std Dev 0

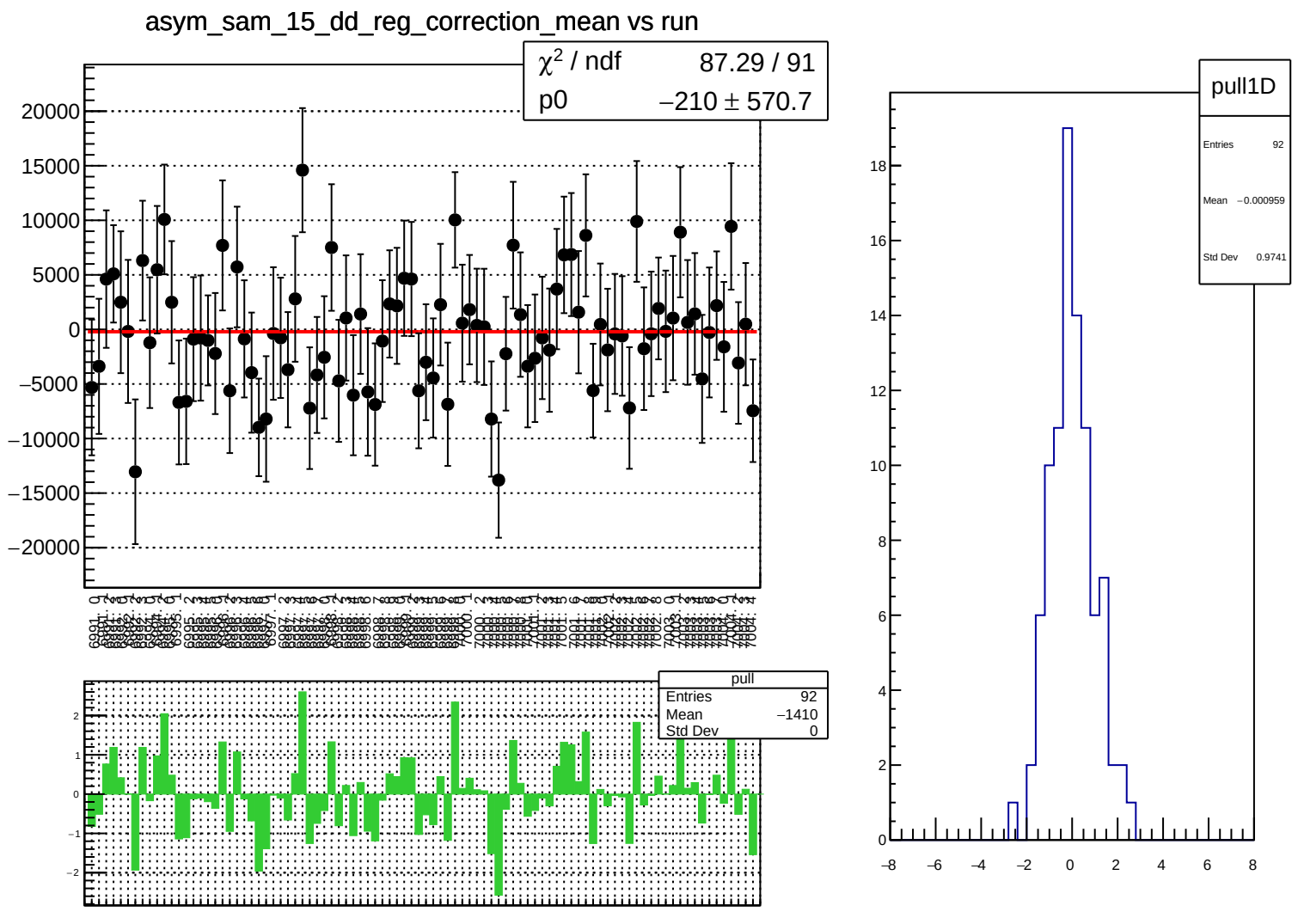

pull1D
Entries 92
Mean −0.03367
Std Dev 0.9887

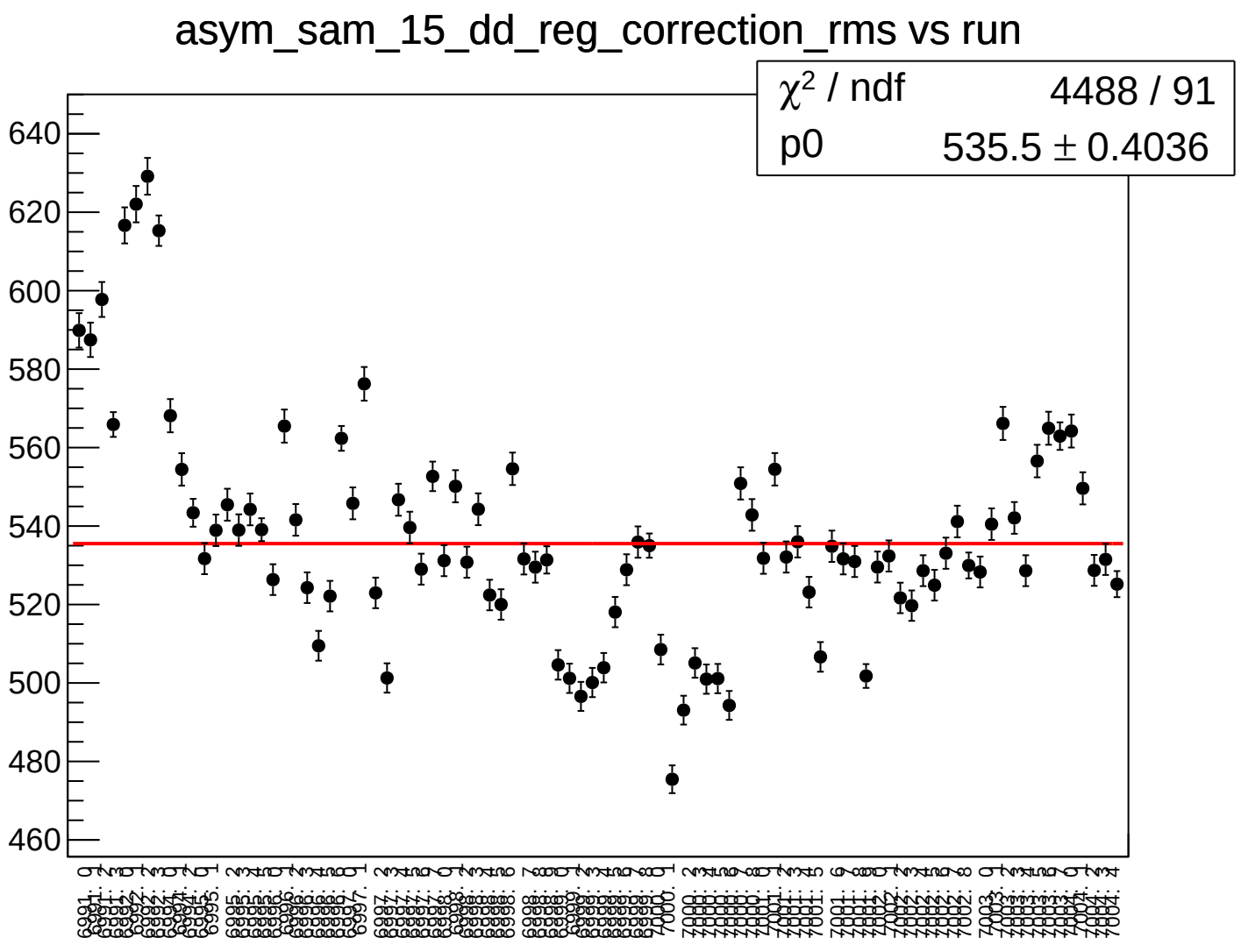

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.968e+05 / 91
p0 2.555e−11 ± 2.269e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

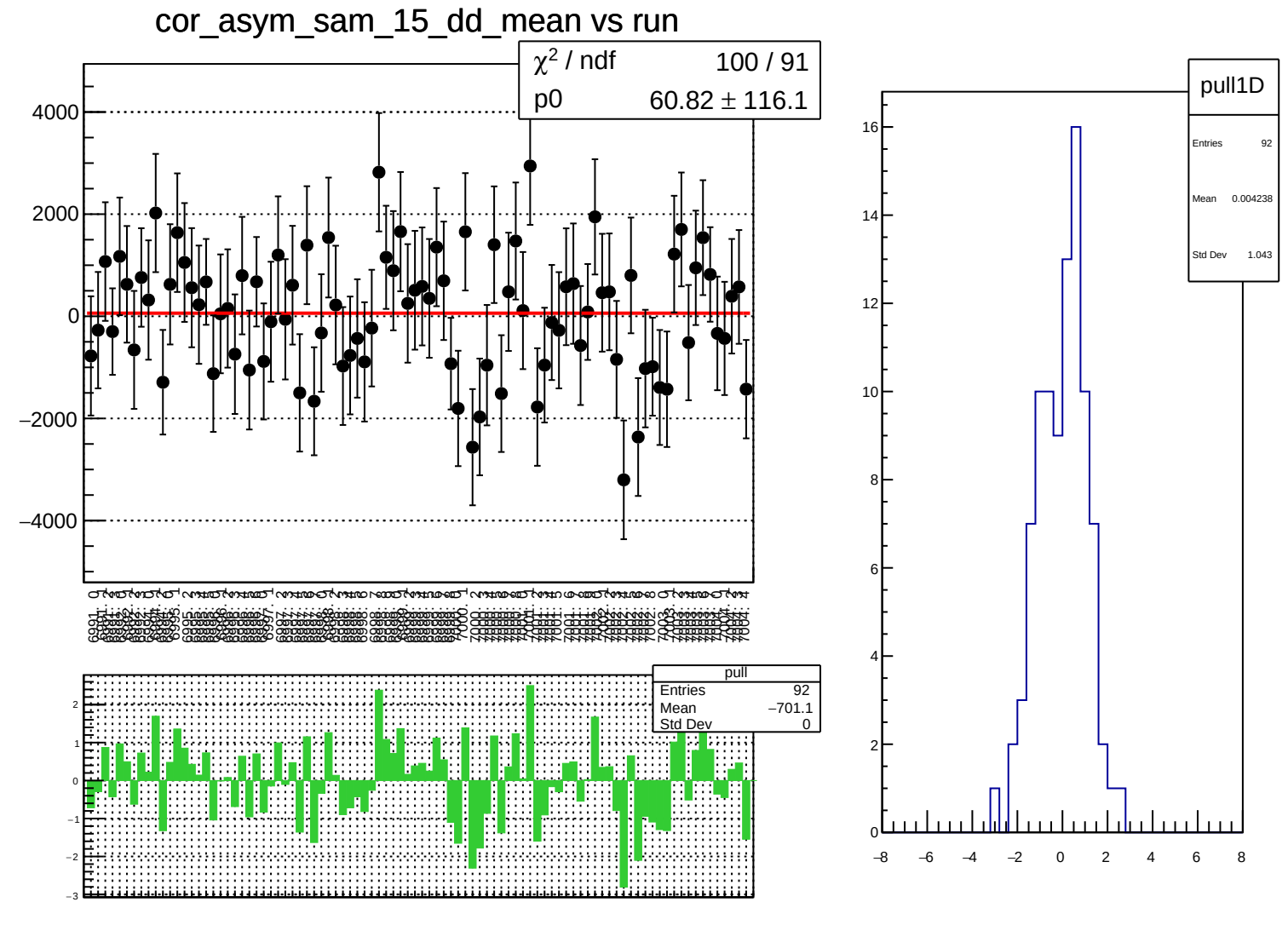

reg_asym_sam_15_dd_mean vs run
χ² / ndf 100 / 91
p0 60.8 ± 116.1
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −701.5
Std Dev 0
2
1
0
−1
−2
−3

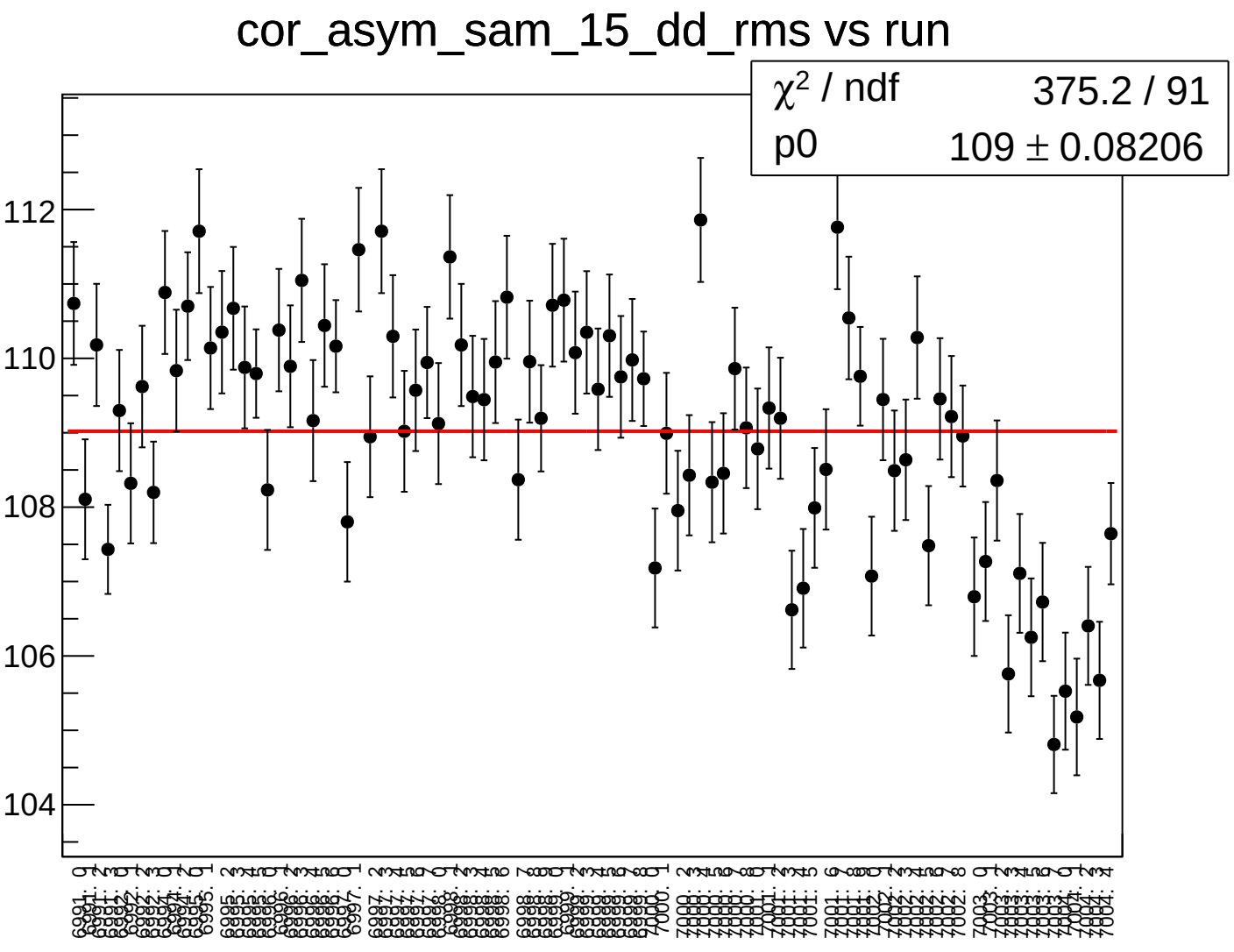

pull1D
Entries 92
Mean 0.004234
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

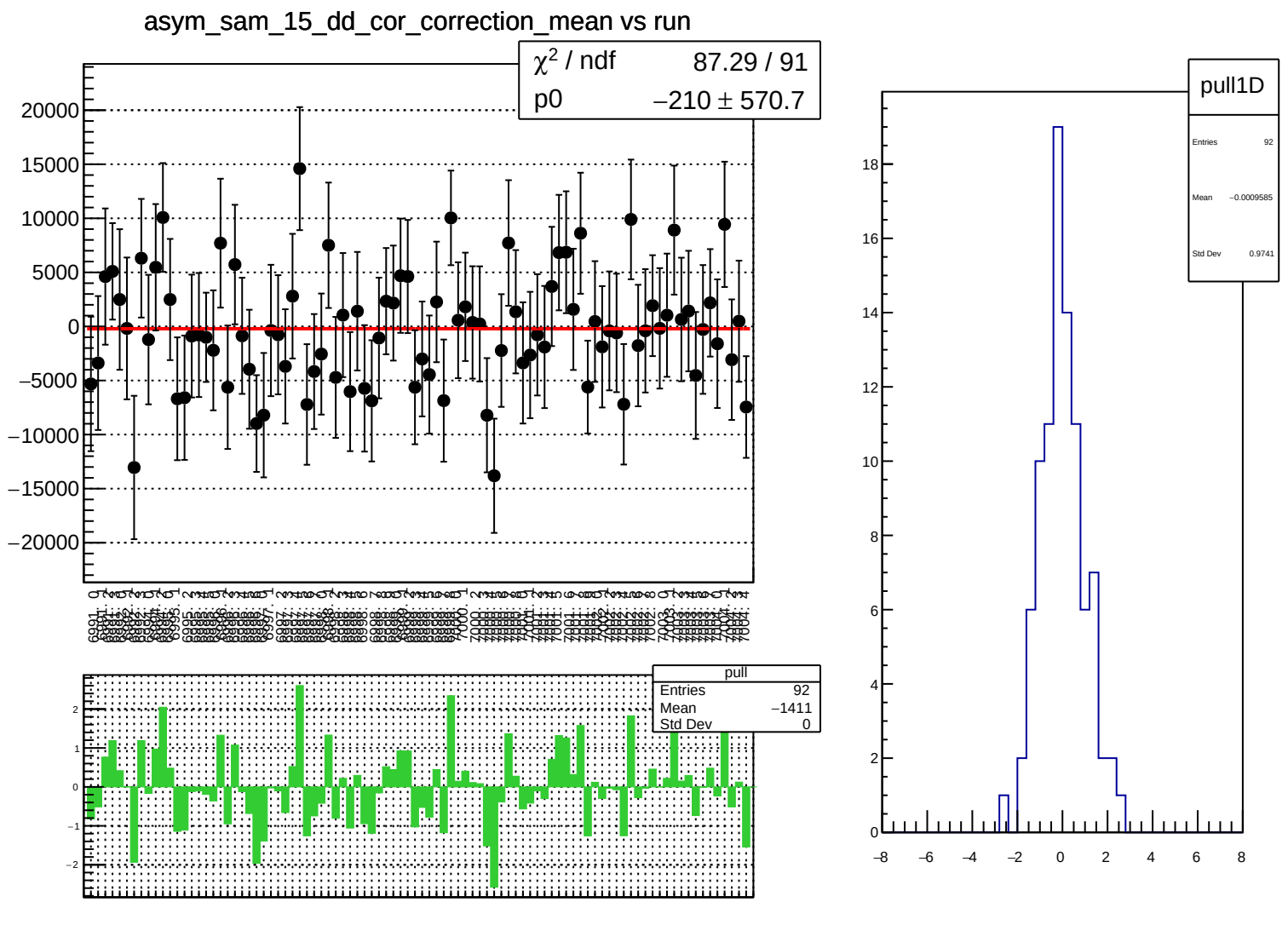

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 375.2 / 91
p0 109 ± 0.08206
112
110
108
106
104

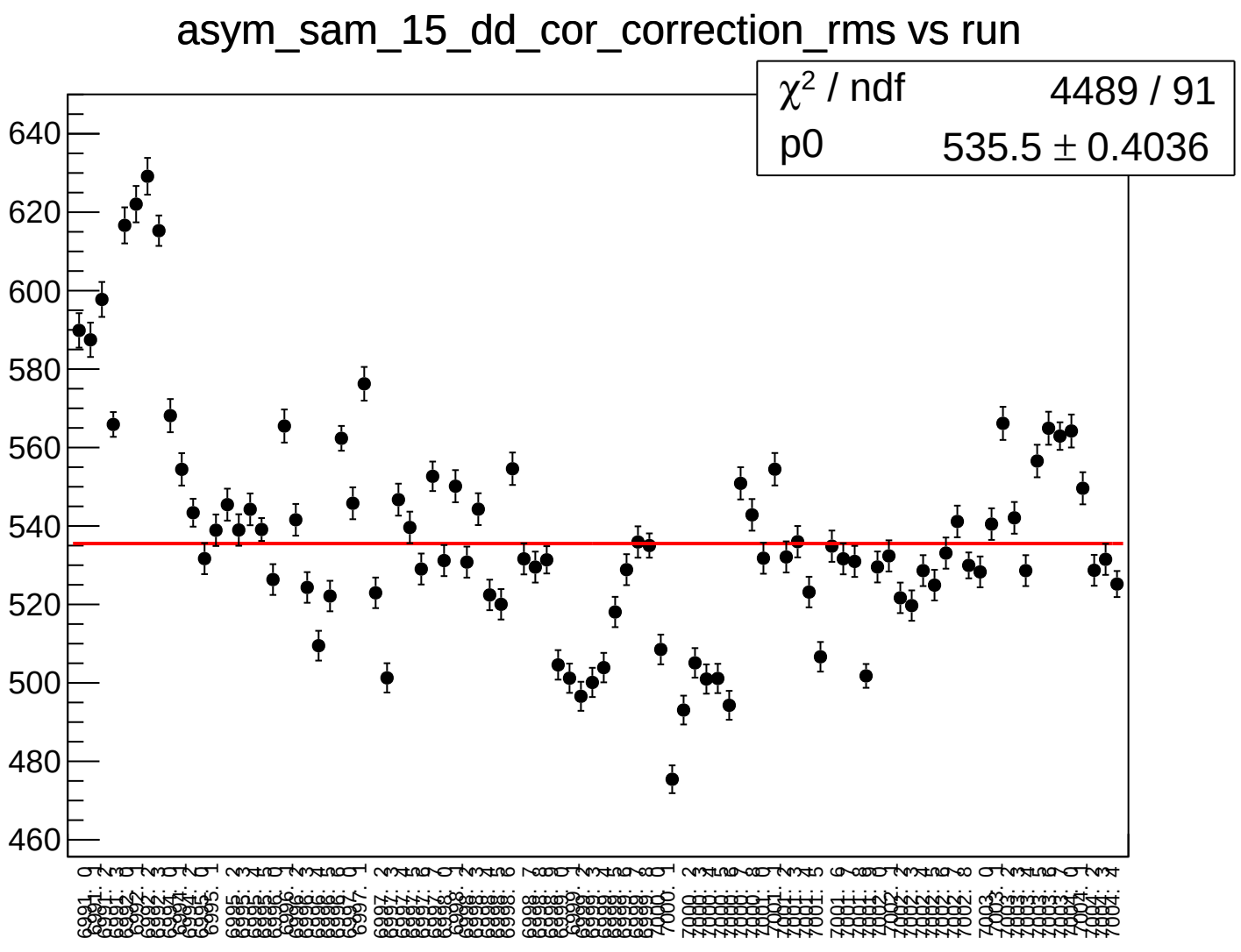

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 87.29 / 91
p0 −210 ± 570.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −1410
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.000959
Std Dev 0.9741
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

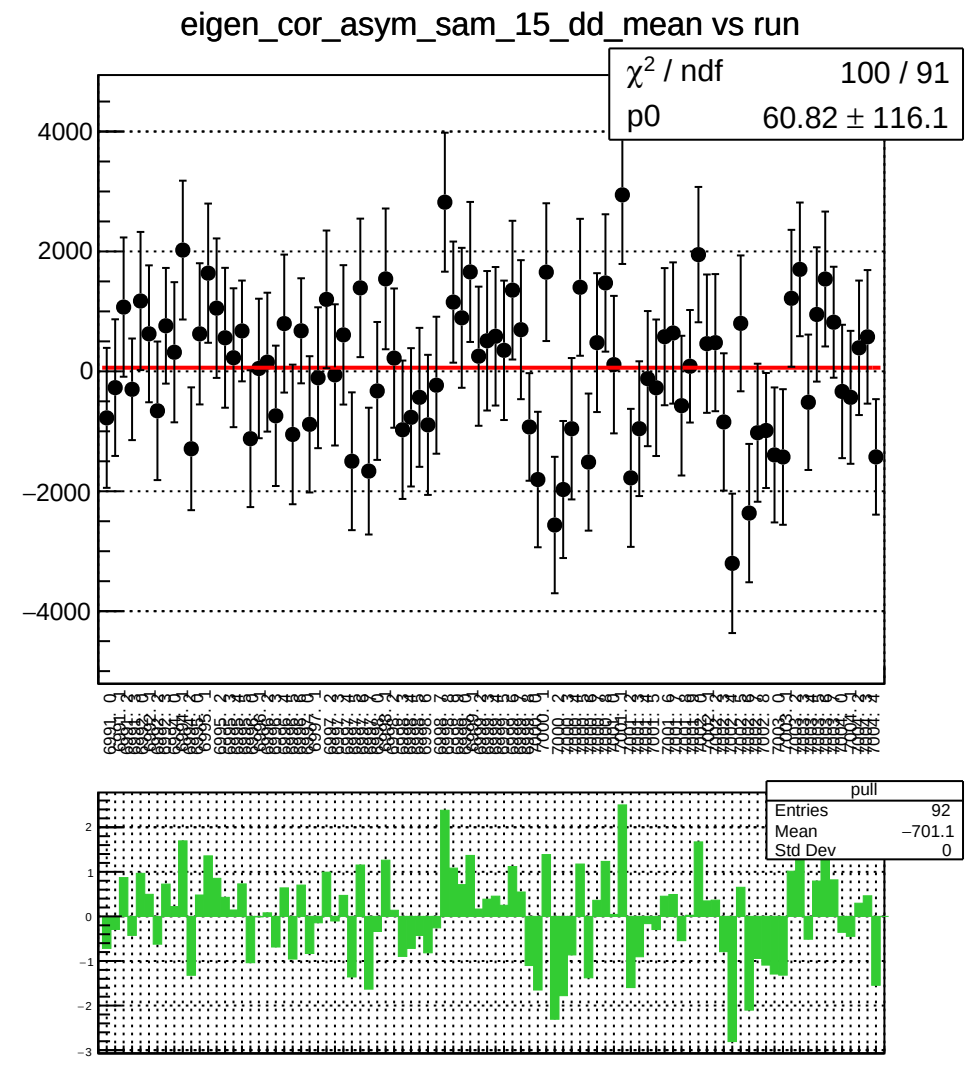

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 4488 / 91
p0 535.5 ± 0.4036
640
620
600
580
560
540
520
500
480
460

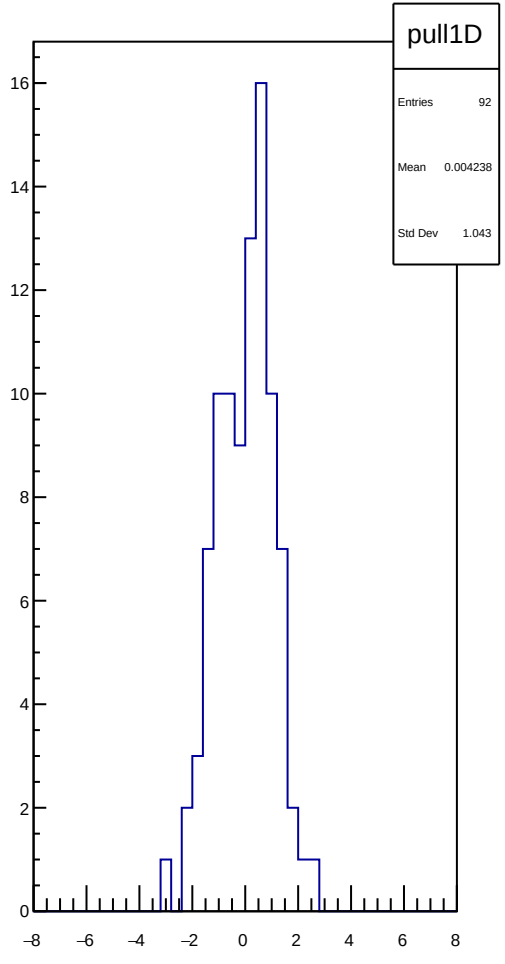

cor_asym_sam_15_dd_mean vs run
χ² / ndf 100 / 91
p0 60.82 ± 116.1
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −701.1
Std Dev 0
pull1D
Entries 92
Mean 0.004238
Std Dev 1.043

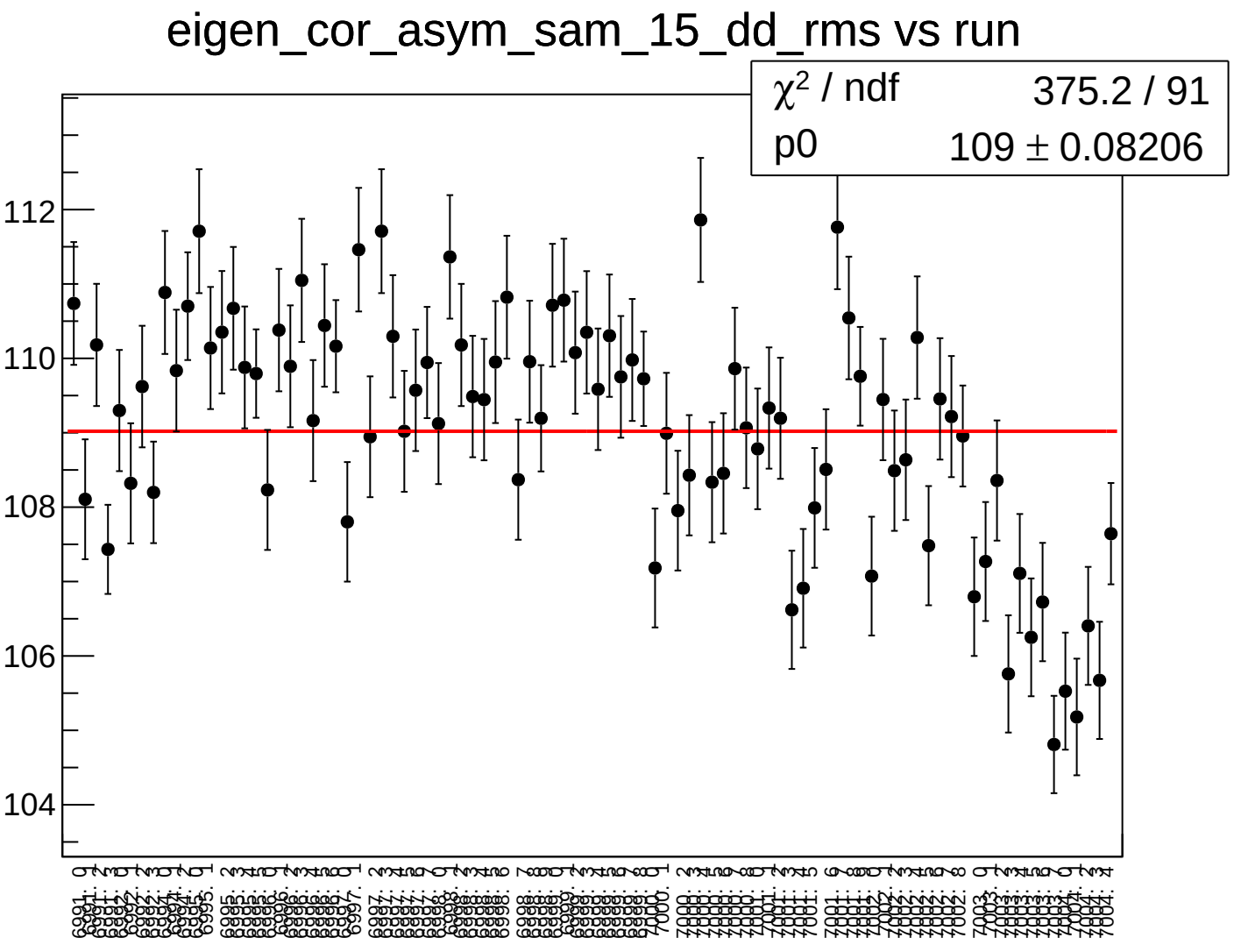

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 375.2 / 91
p0 109 ± 0.08206
112
110
108
106
104

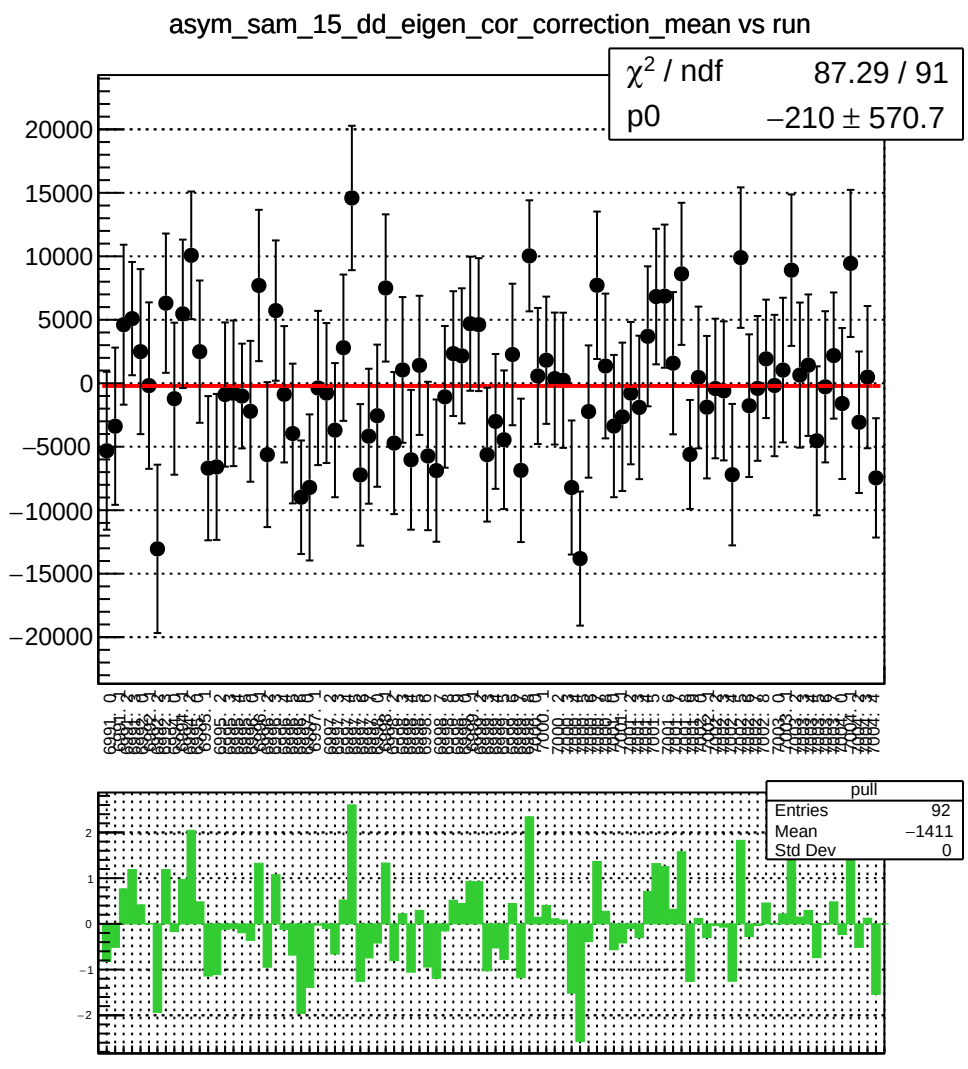

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 87.29 / 91
p0 −210 ± 570.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −1411
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0009585
Std Dev 0.9741
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

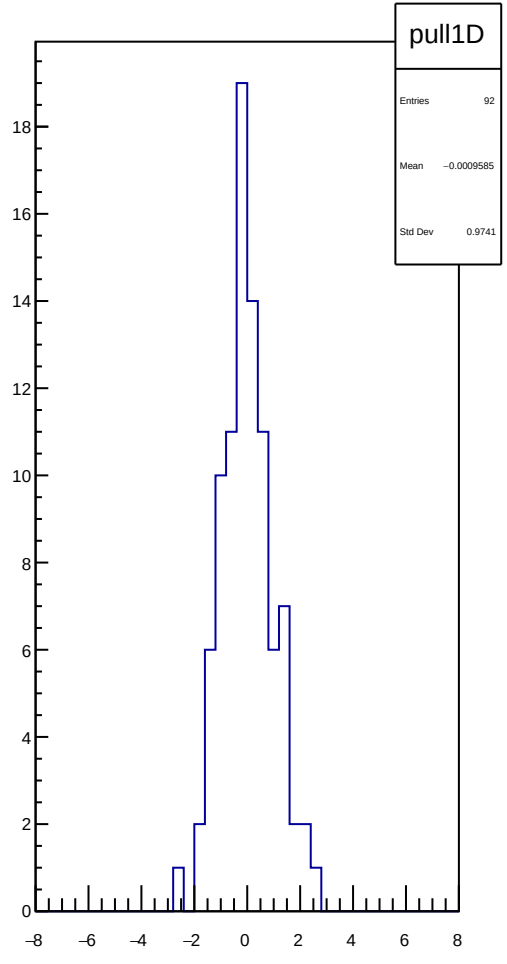

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 4489 / 91
p0 535.5 ± 0.4036
640
620
600
580
560
540
520
500
480
460

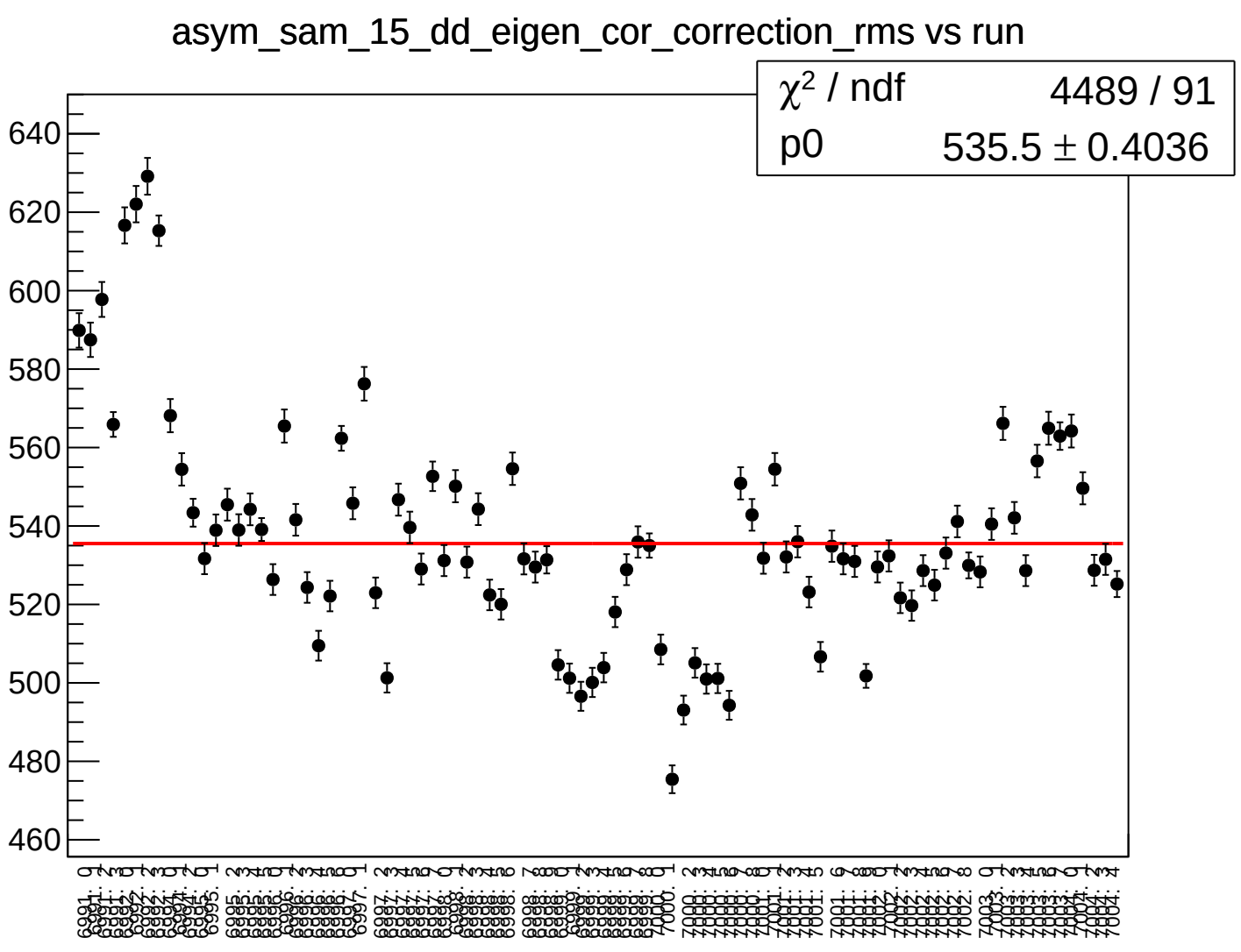

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 100 / 91
p0 60.82 ± 116.1
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −701.1
Std Dev 0
2
1
0
−1
−2
−3

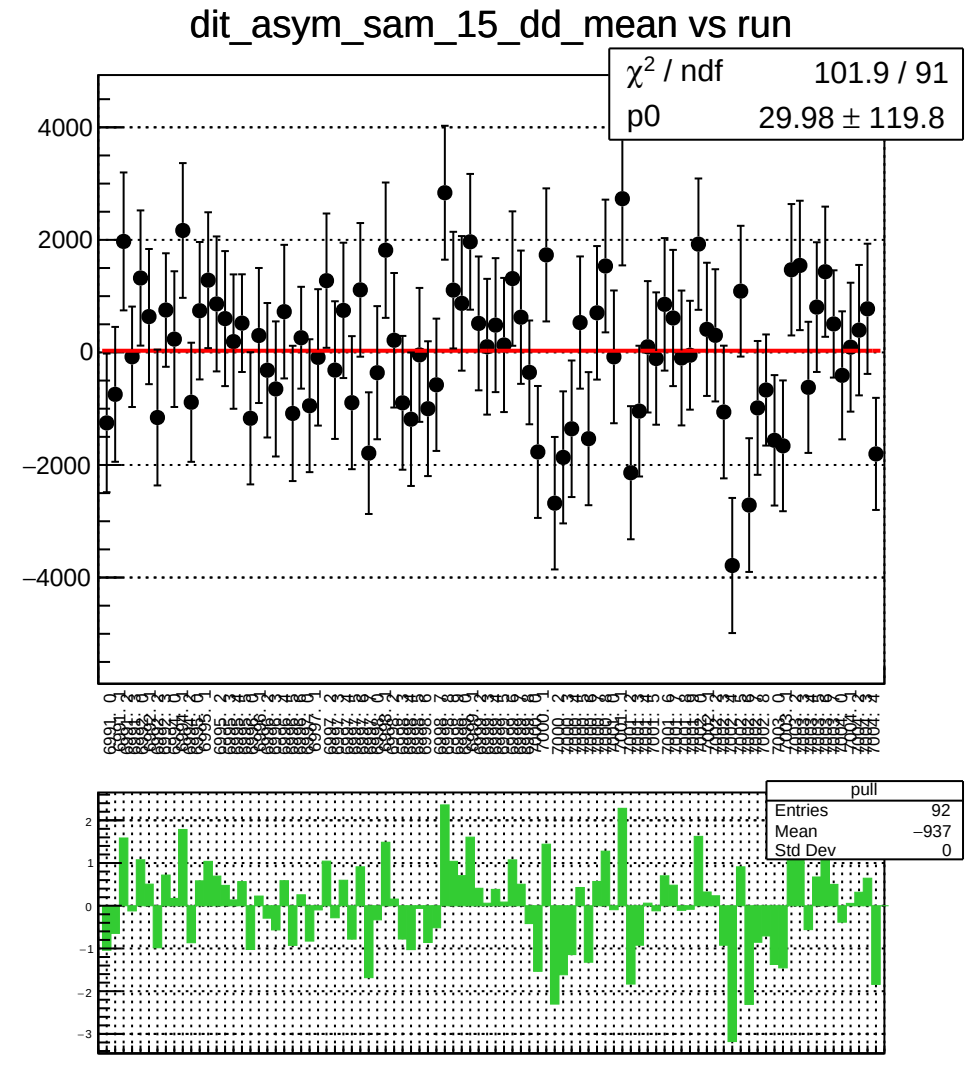

pull1D
Entries 92
Mean 0.004238
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

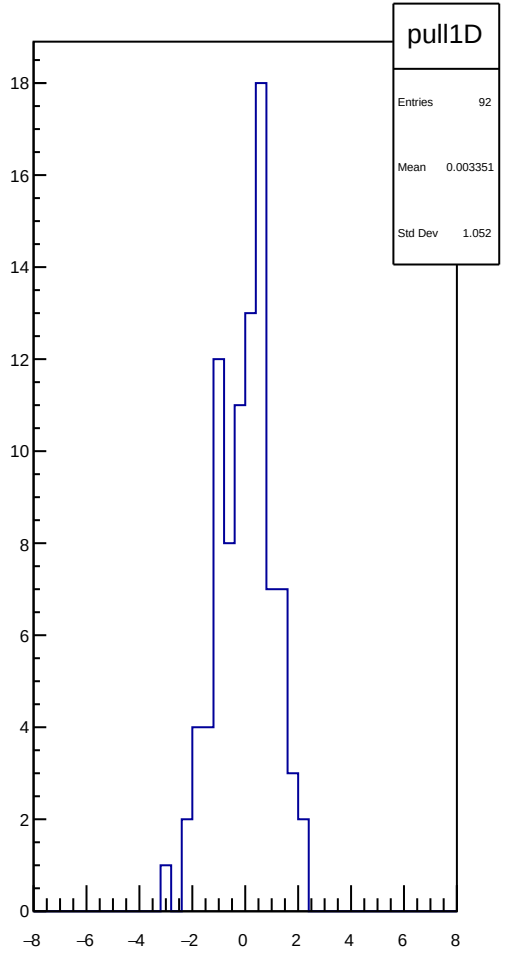

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 375.2 / 91
p0 109 ± 0.08206
112
110
108
106
104

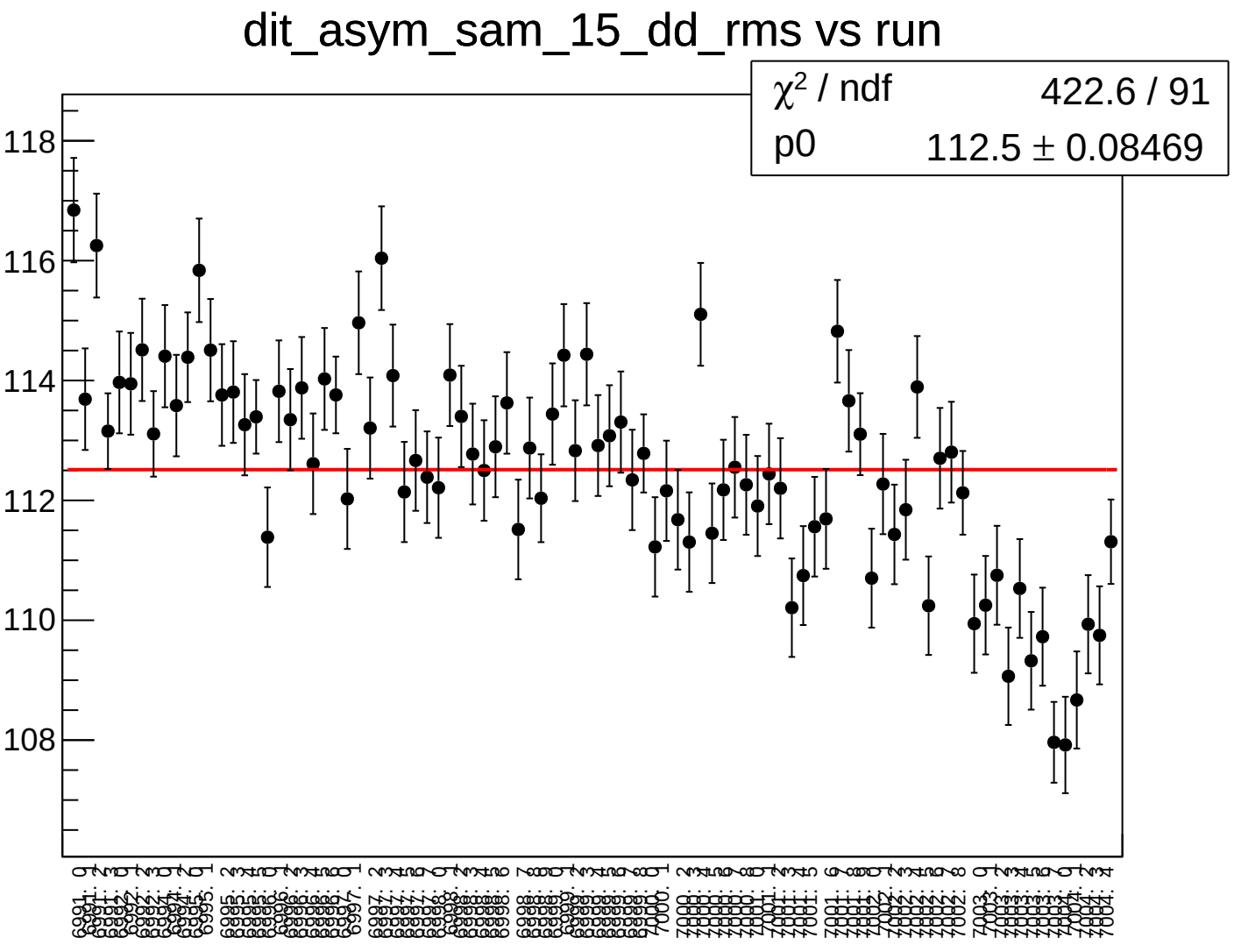

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.29 / 91
p0 −210 ± 570.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −1411
Std Dev 0
2
1
0
−1
−2

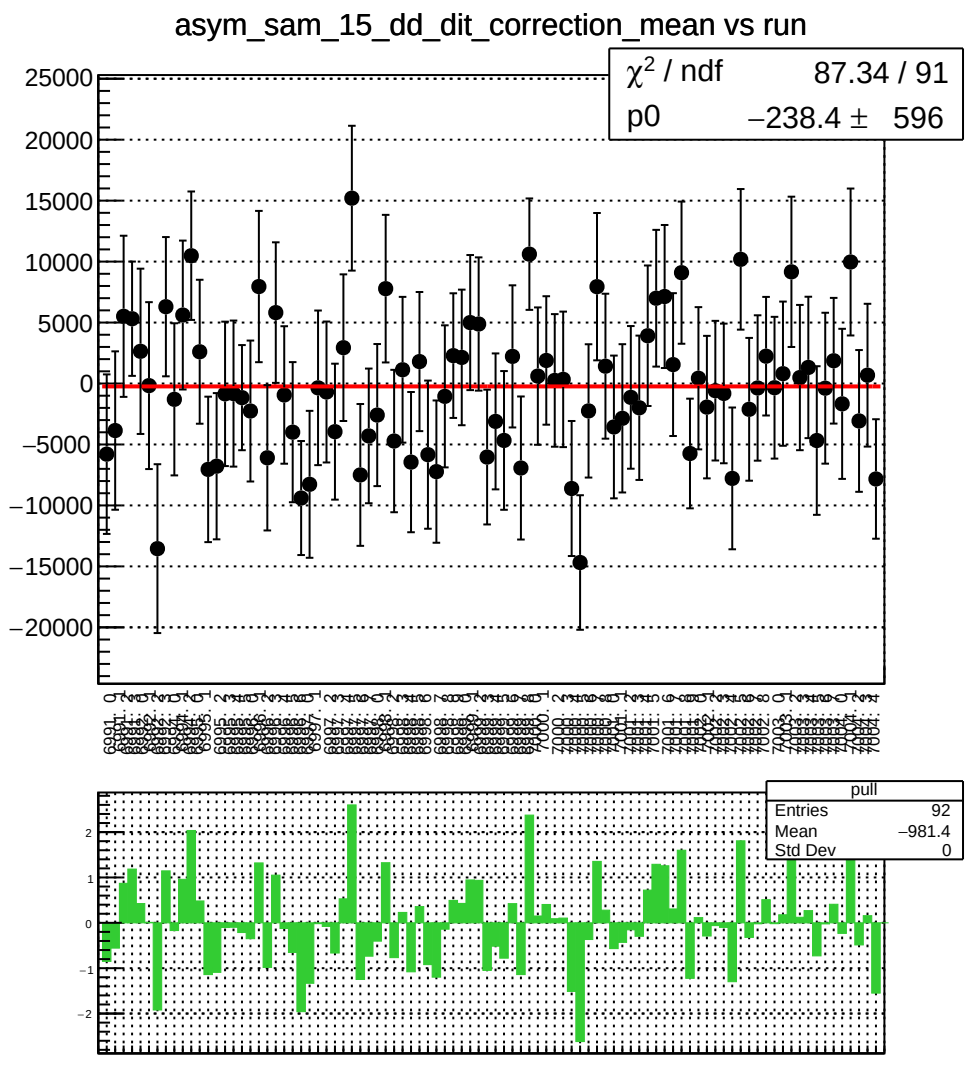

pull1D
Entries 92
Mean −0.0009585
Std Dev 0.9741
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

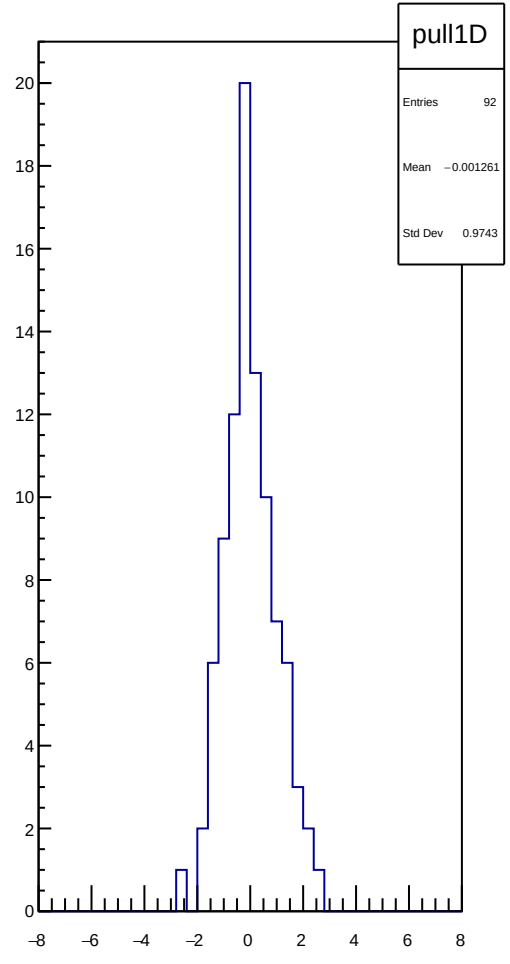

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 4489 / 91
p0 535.5 ± 0.4036
640
620
600
580
560
540
520
500
480
460

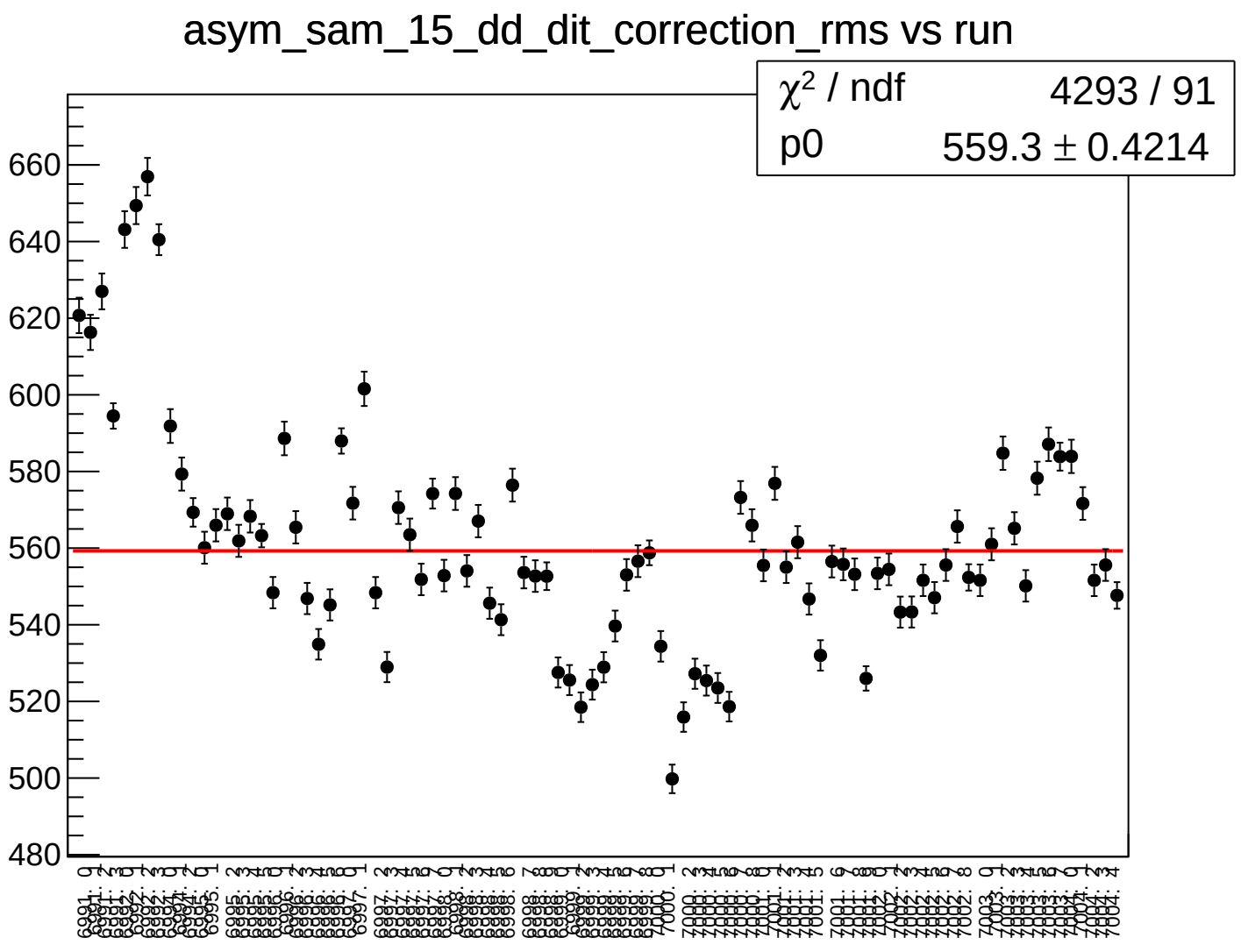

dit_asym_sam_15_dd_mean vs run
χ² / ndf 101.9 / 91
p0 29.98 ± 119.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −937
Std Dev 0
2
1
0
−1
−2
−3

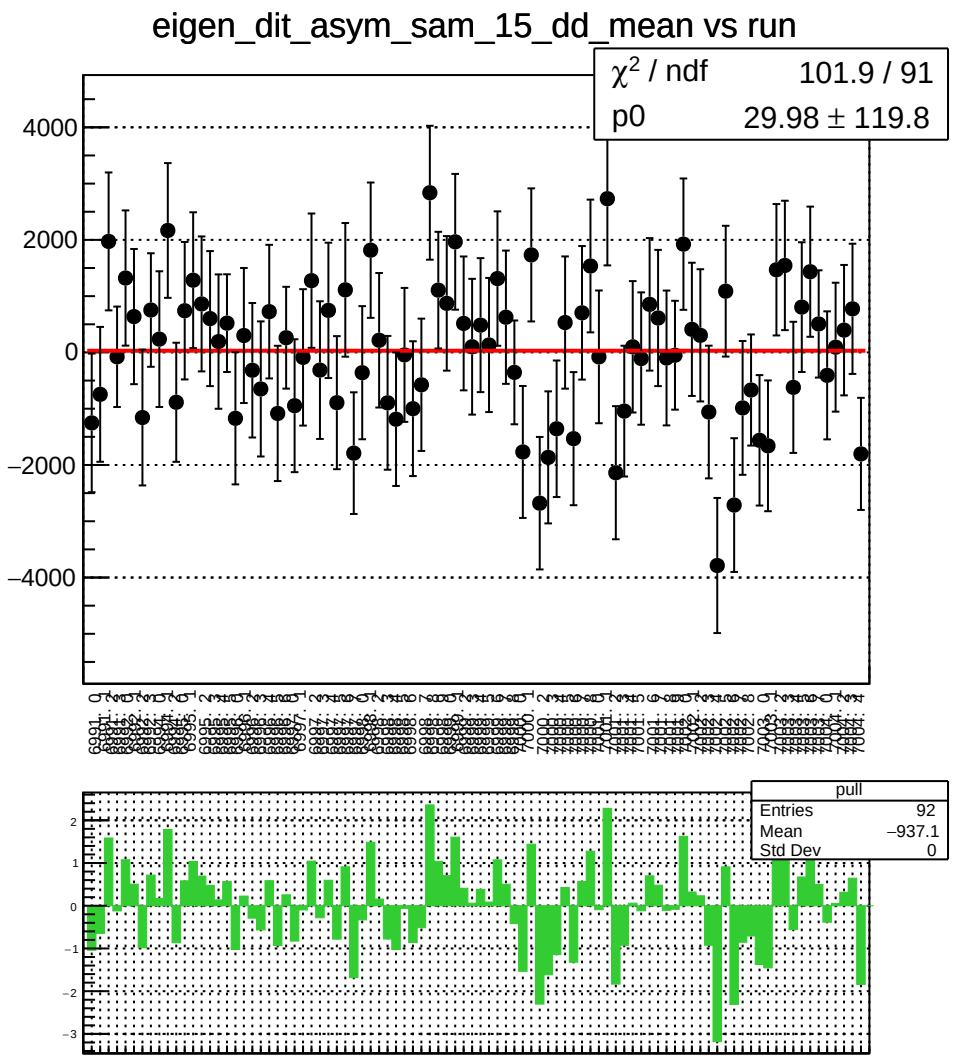

pull1D
Entries 92
Mean 0.003351
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

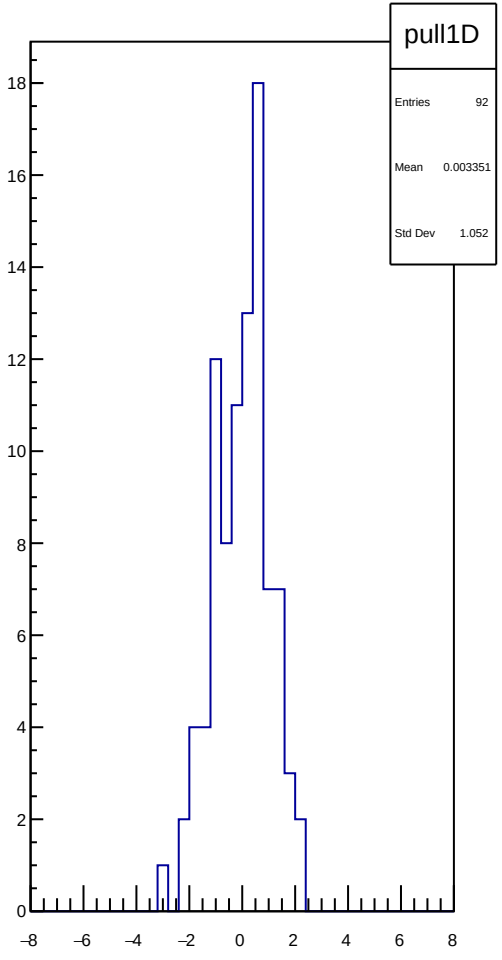

dit_asym_sam_15_dd_rms vs run
χ² / ndf 422.6 / 91
p0 112.5 ± 0.08469
118
116
114
112
110
108

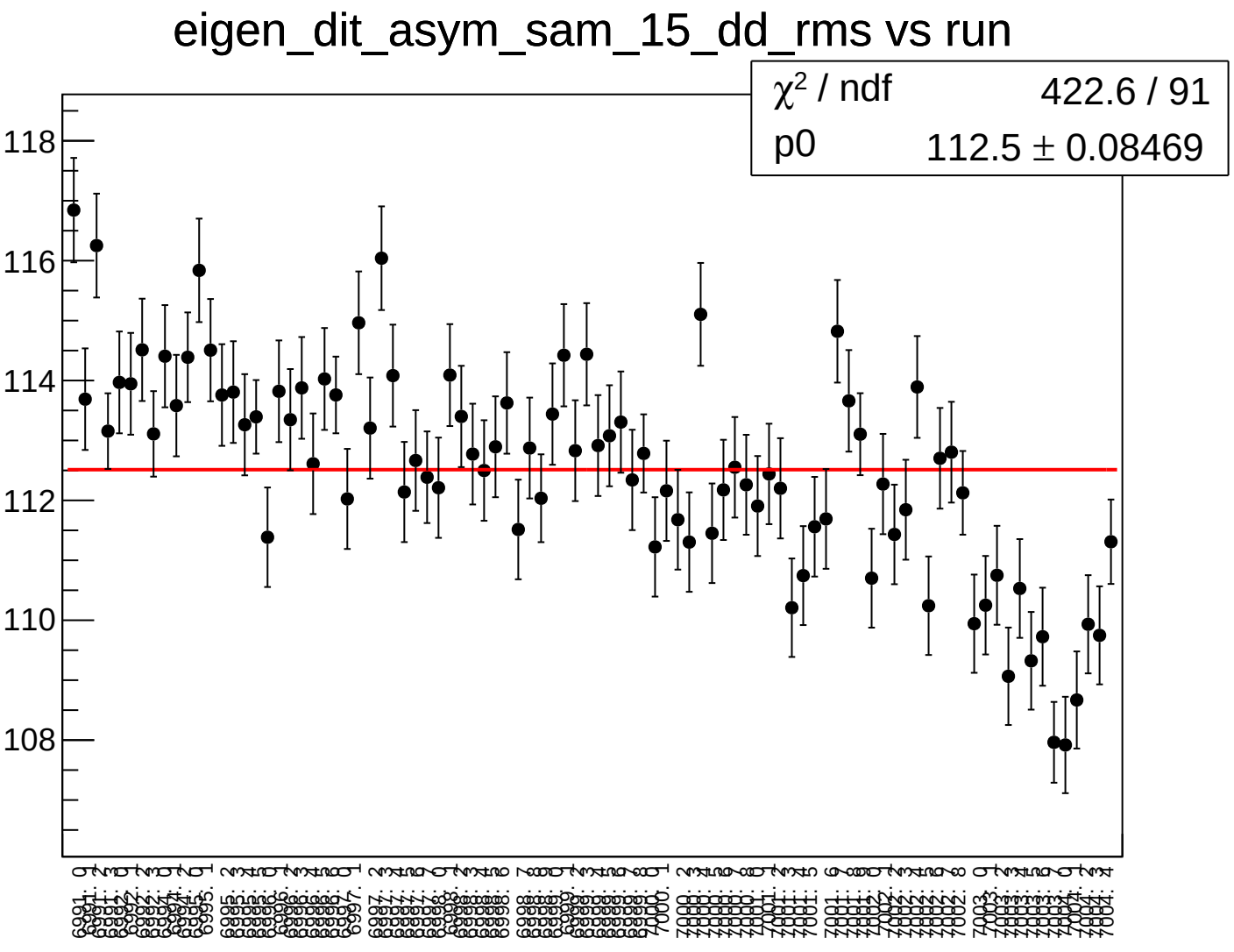

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 87.34 / 91
p0 −238.4 ± 596
pull
Entries 92
Mean −981.4
Std Dev 0

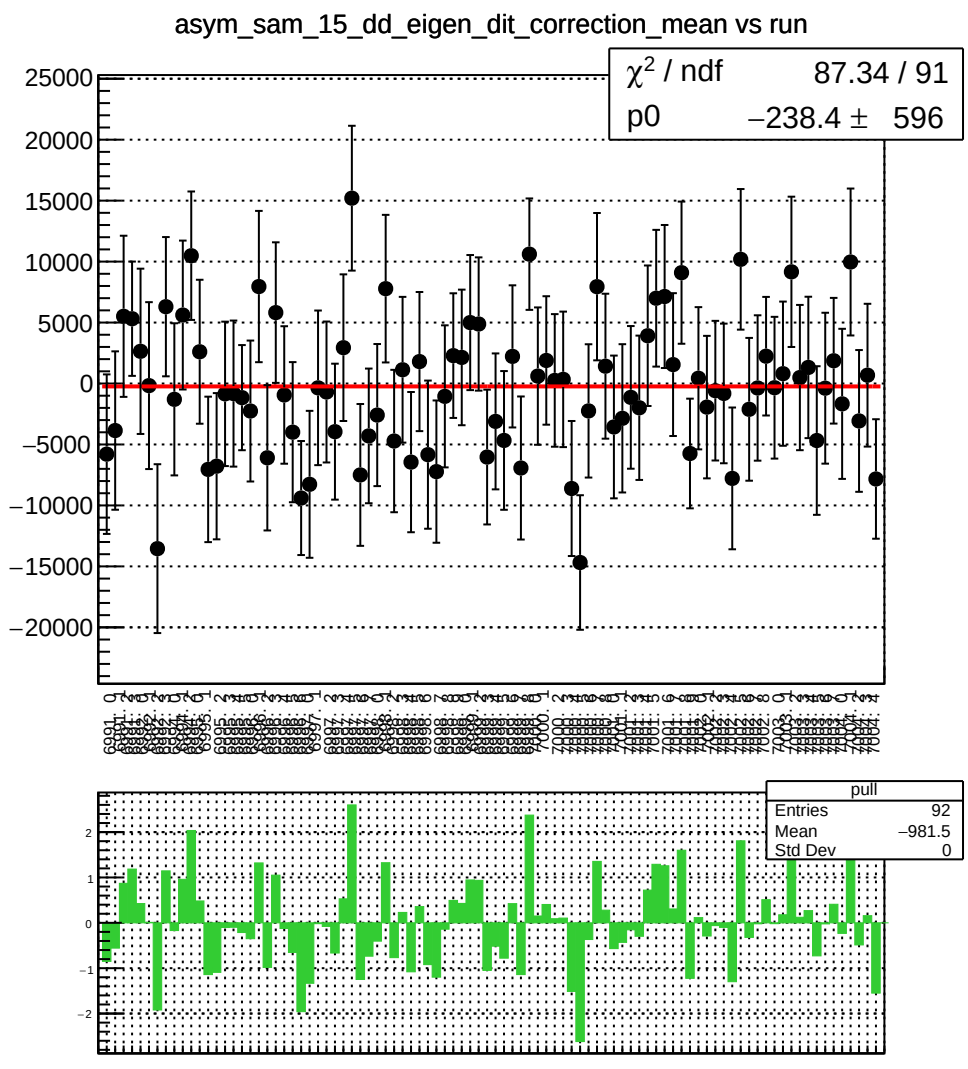

pull1D
Entries 92
Mean −0.001261
Std Dev 0.9743

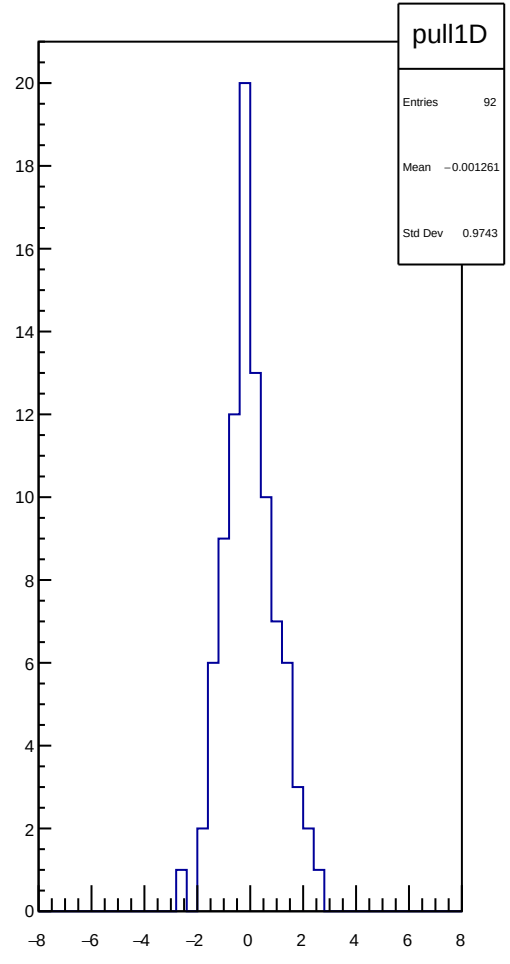

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 4293 / 91
p0 559.3 ± 0.4214
660
640
620
600
580
560
540
520
500
480

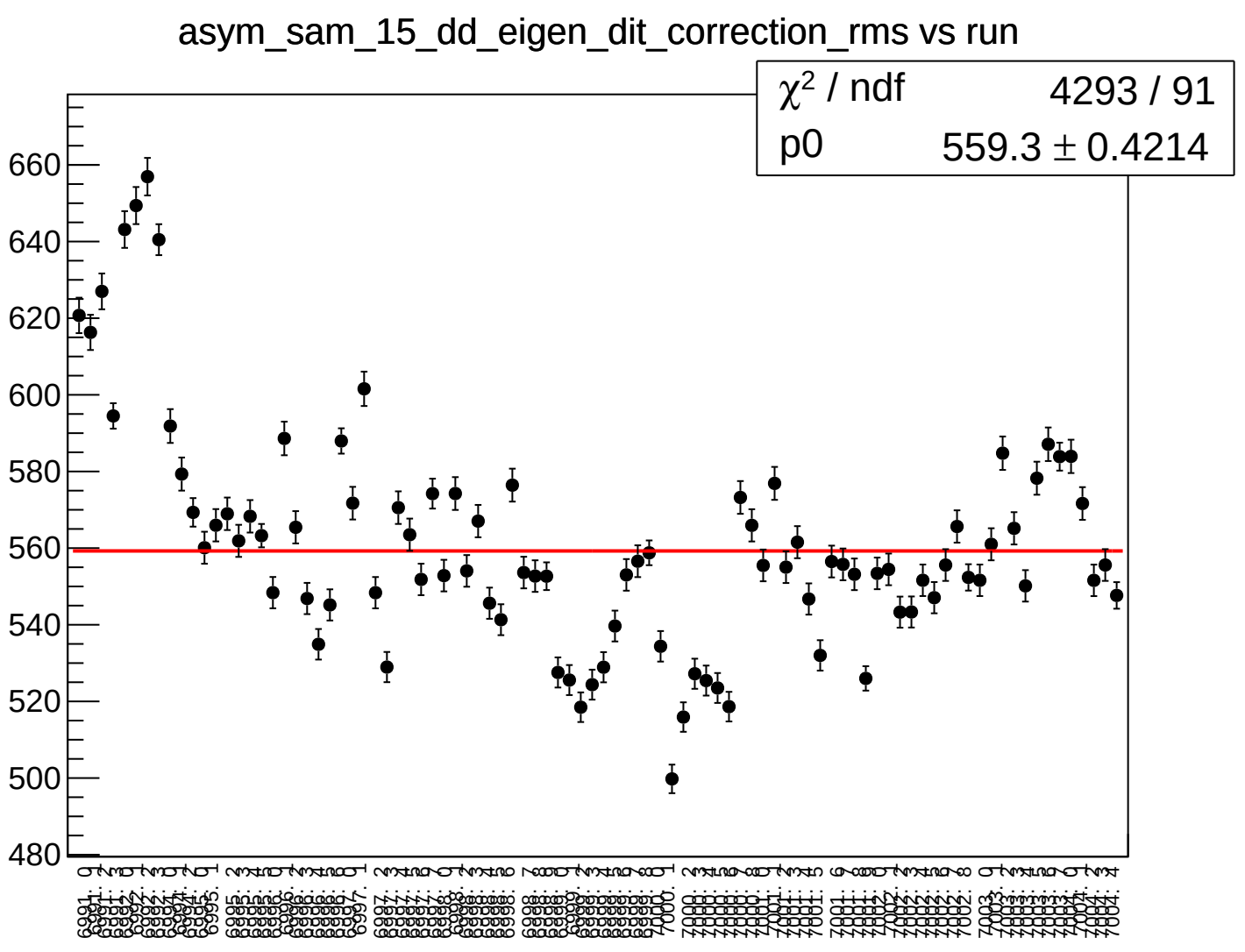

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 101.9 / 91
p0 29.98 ± 119.8
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −937.1
Std Dev 0
2
1
0
−1
−2
−3

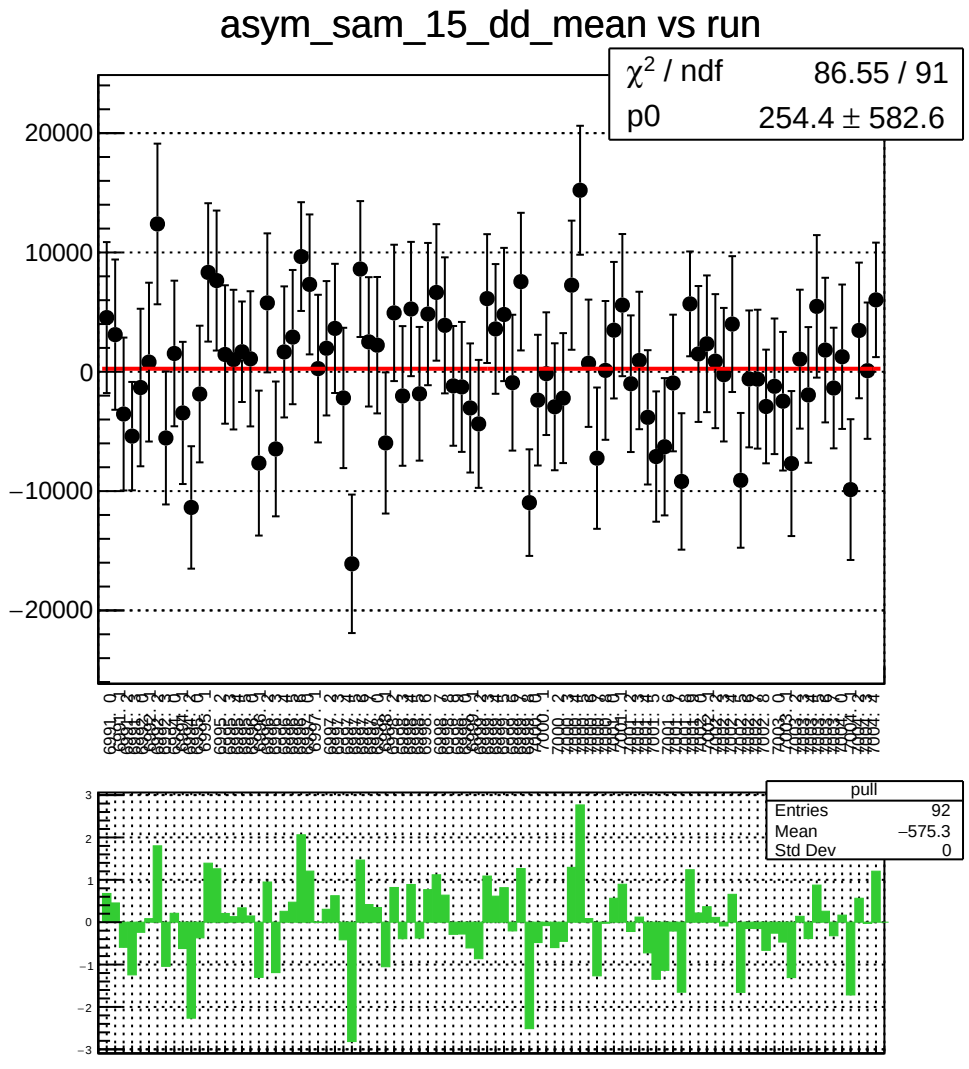

pull1D
Entries 92
Mean 0.003351
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

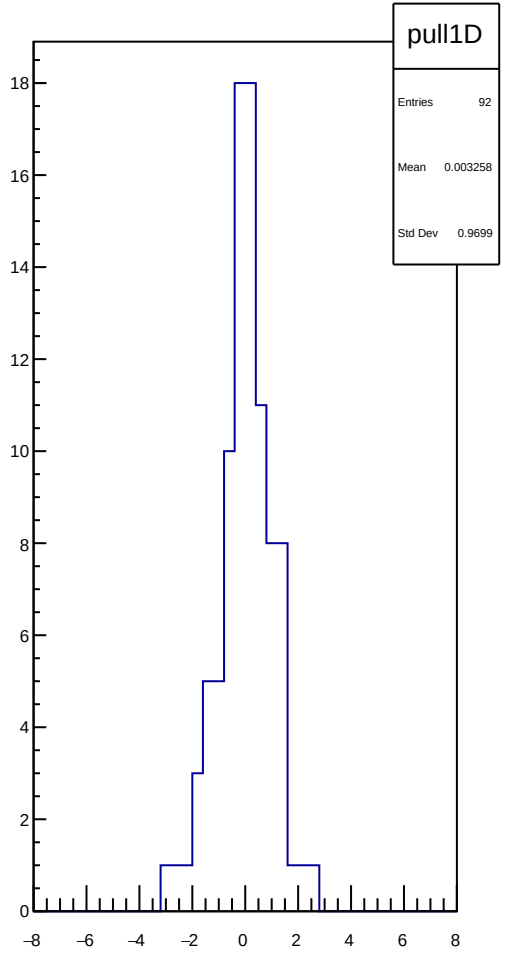

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 422.6 / 91
p0 112.5 ± 0.08469
118
116
114
112
110
108

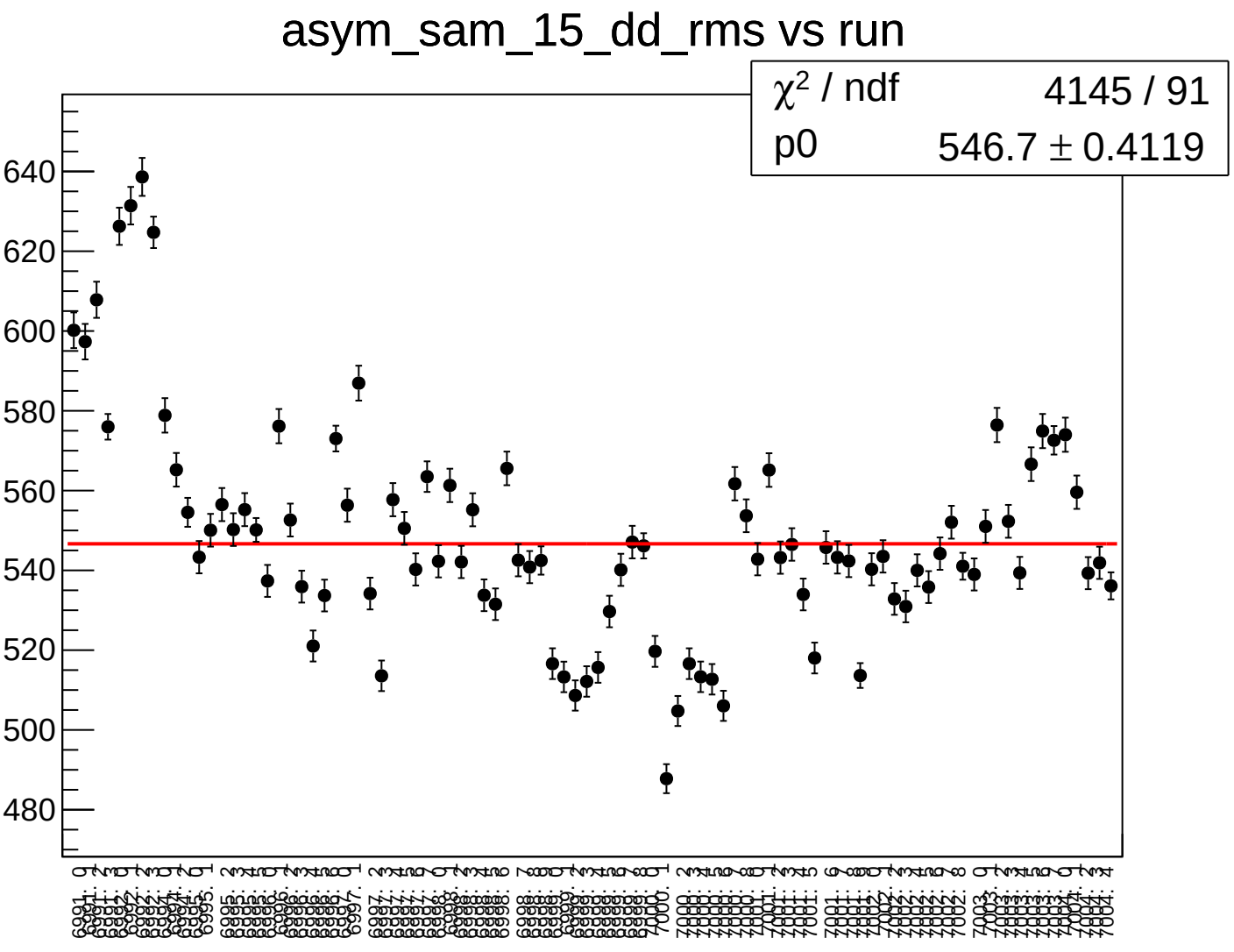

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.34 / 91
p0 −238.4 ± 596
pull
Entries 92
Mean −981.5
Std Dev 0

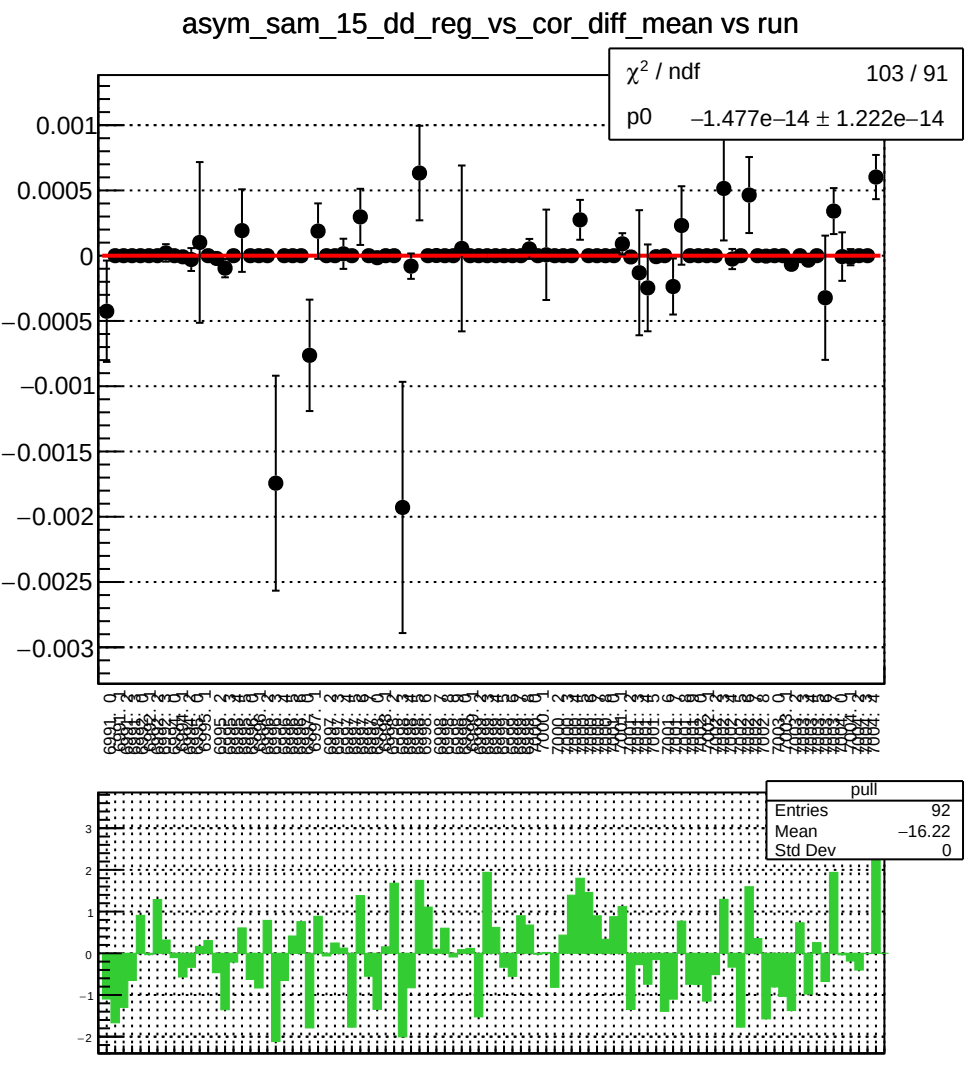

pull1D
Entries 92
Mean −0.001261
Std Dev 0.9743

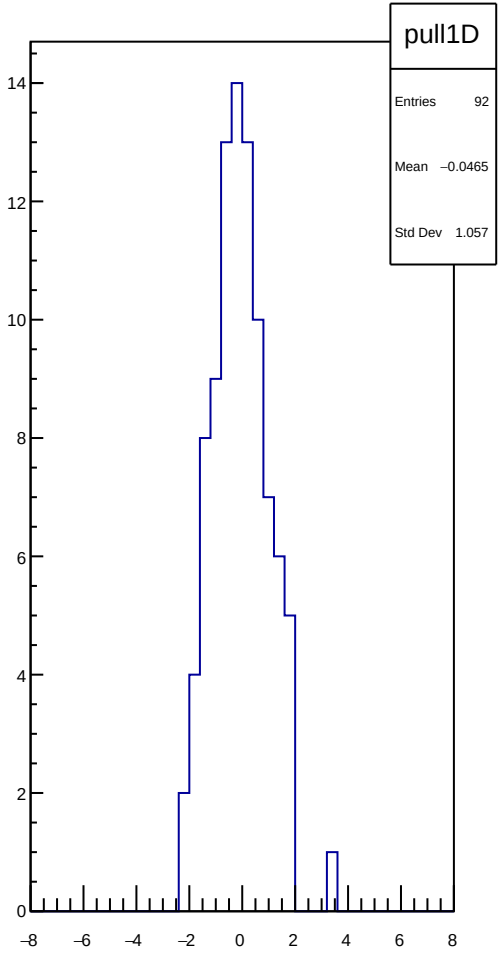

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 4293 / 91
p0 559.3 ± 0.4214
660
640
620
600
580
560
540
520
500
480

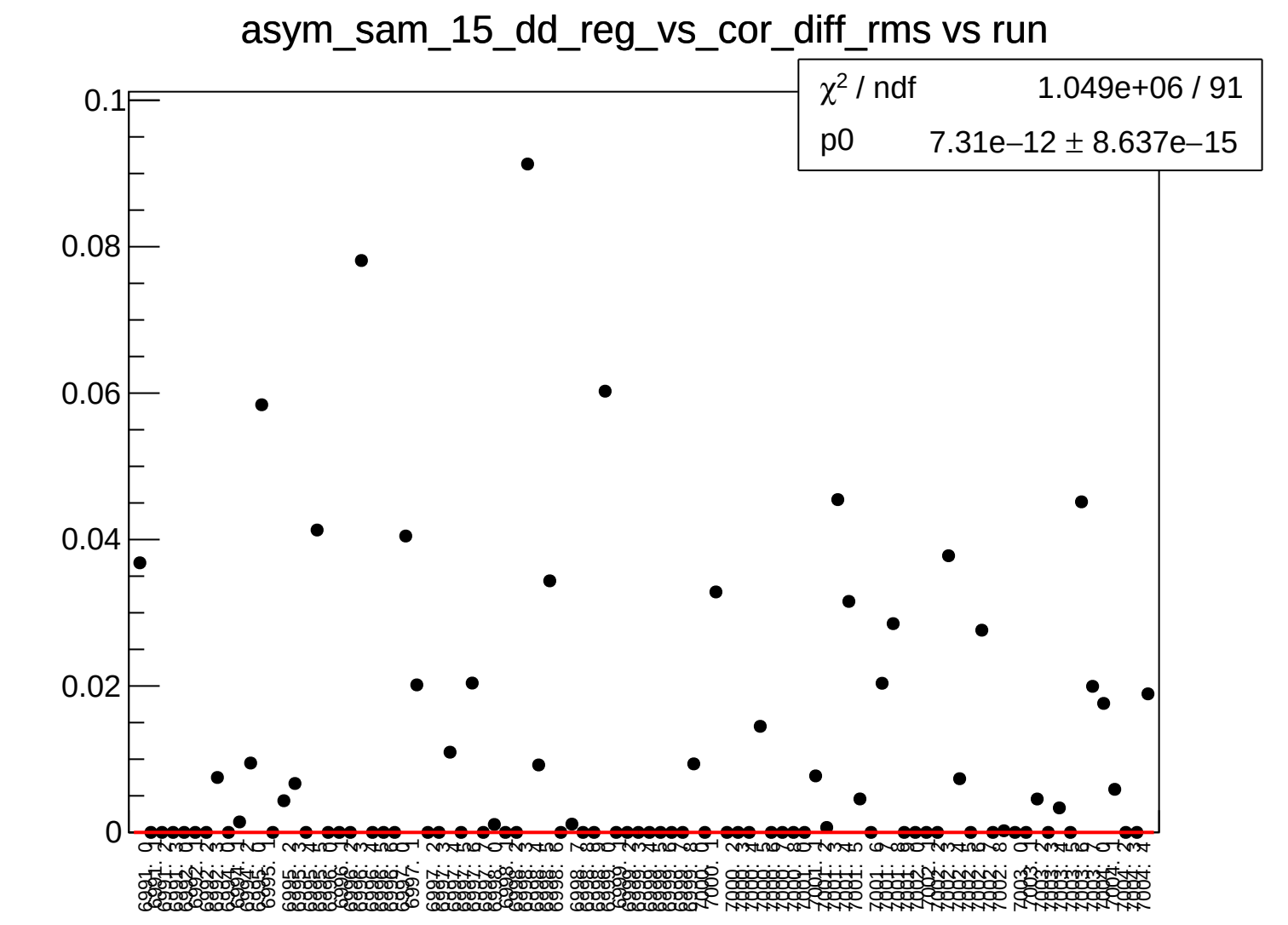

asym_sam_15_dd_mean vs run
χ² / ndf 86.55 / 91
p0 254.4 ± 582.6
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −575.3
Std Dev 0
3
2
1
0
−1
−2
−3

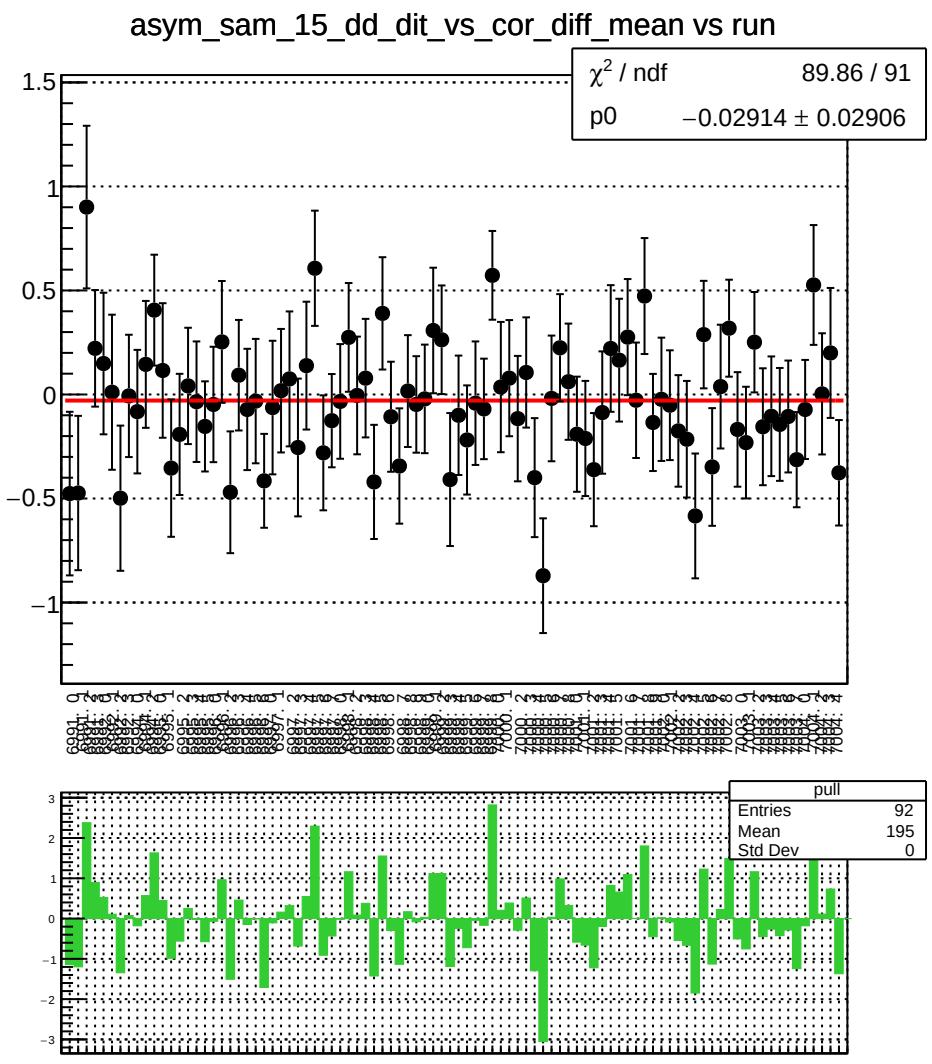

pull1D
Entries 92
Mean 0.003258
Std Dev 0.9699
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

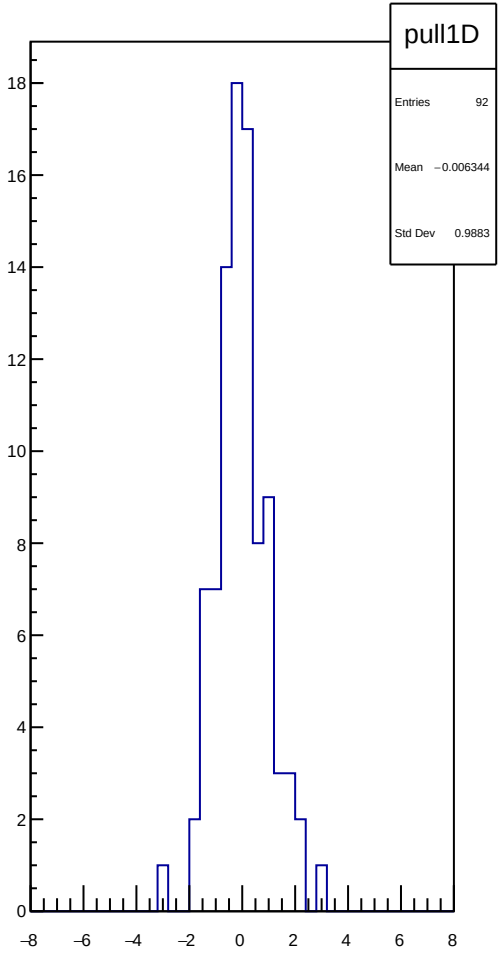

asym_sam_15_dd_rms vs run
χ² / ndf 4145 / 91
p0 546.7 ± 0.4119
640
620
600
580
560
540
520
500
480

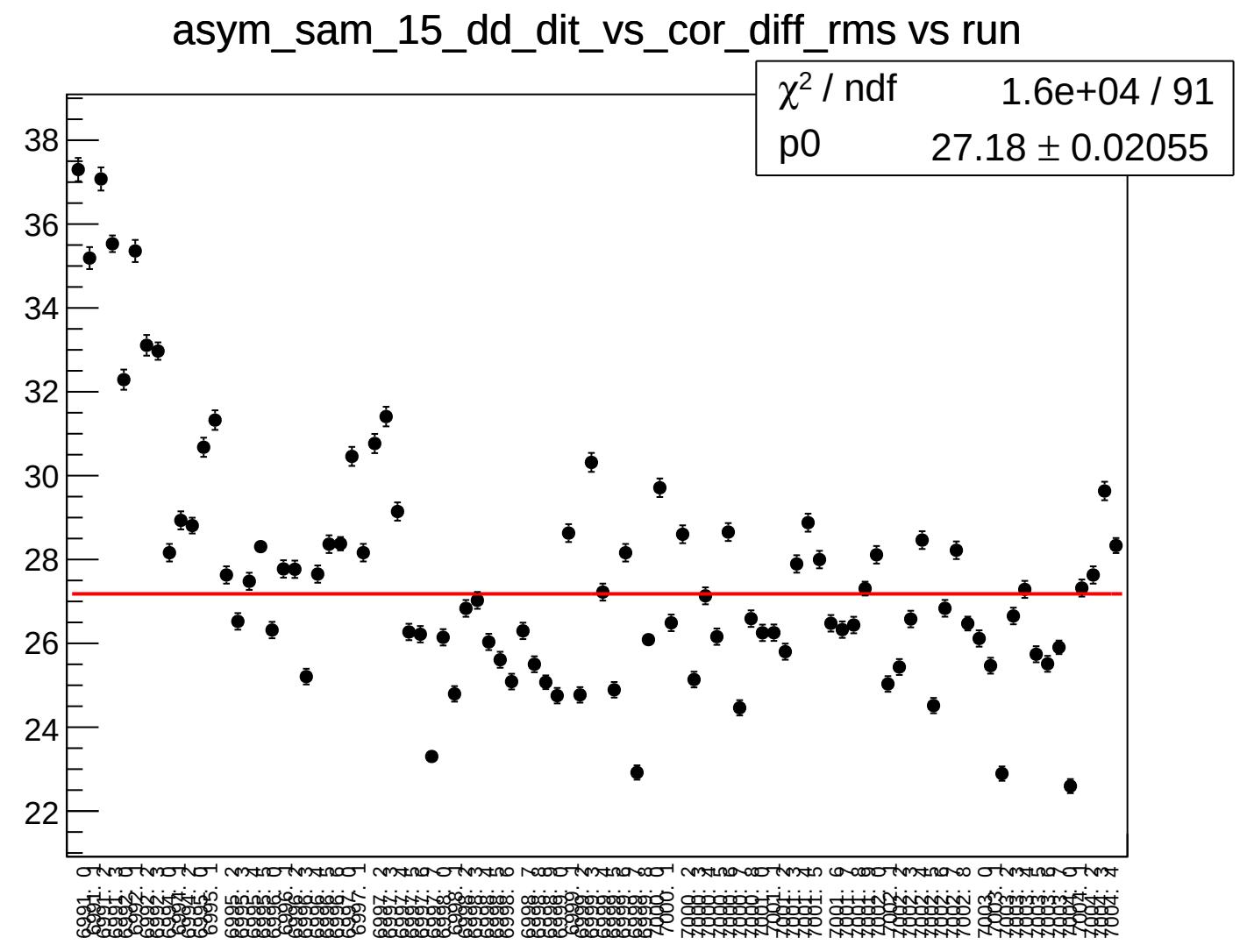

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103 / 91
p0 −1.477e−14 ± 1.222e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
pull
Entries 92
Mean −16.22
Std Dev 0
3
2
1
0
−1
−2

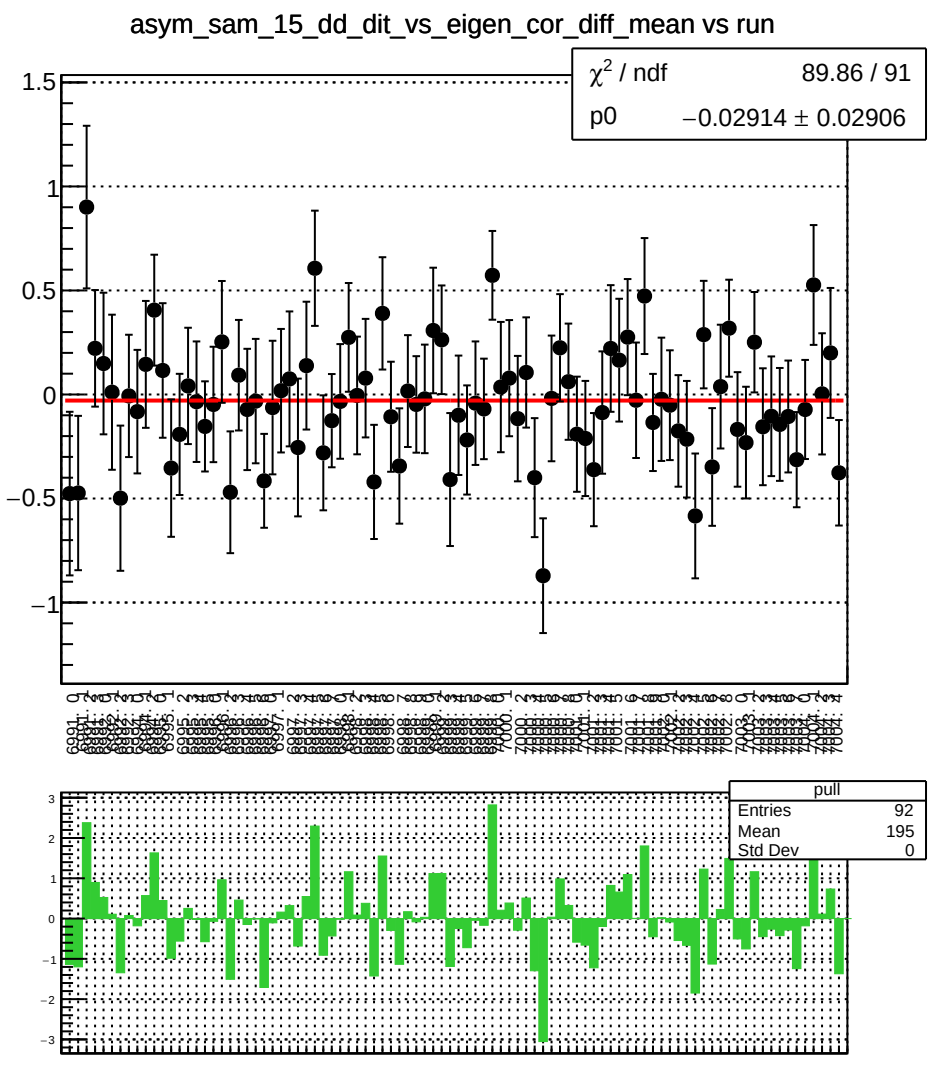

pull1D
Entries 92
Mean −0.0465
Std Dev 1.057
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

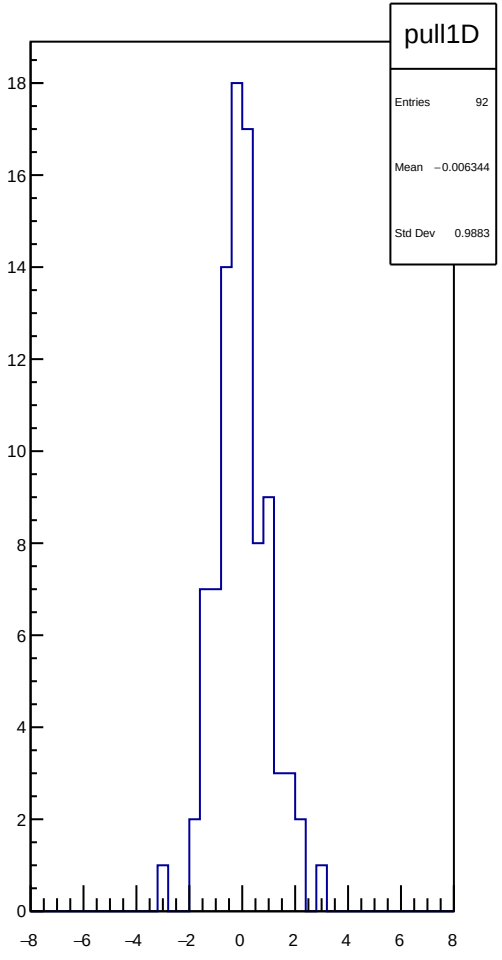

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.049e+06 / 91
p0 7.31e−12 ± 8.637e−15
0.1
0.08
0.06
0.04
0.02
0

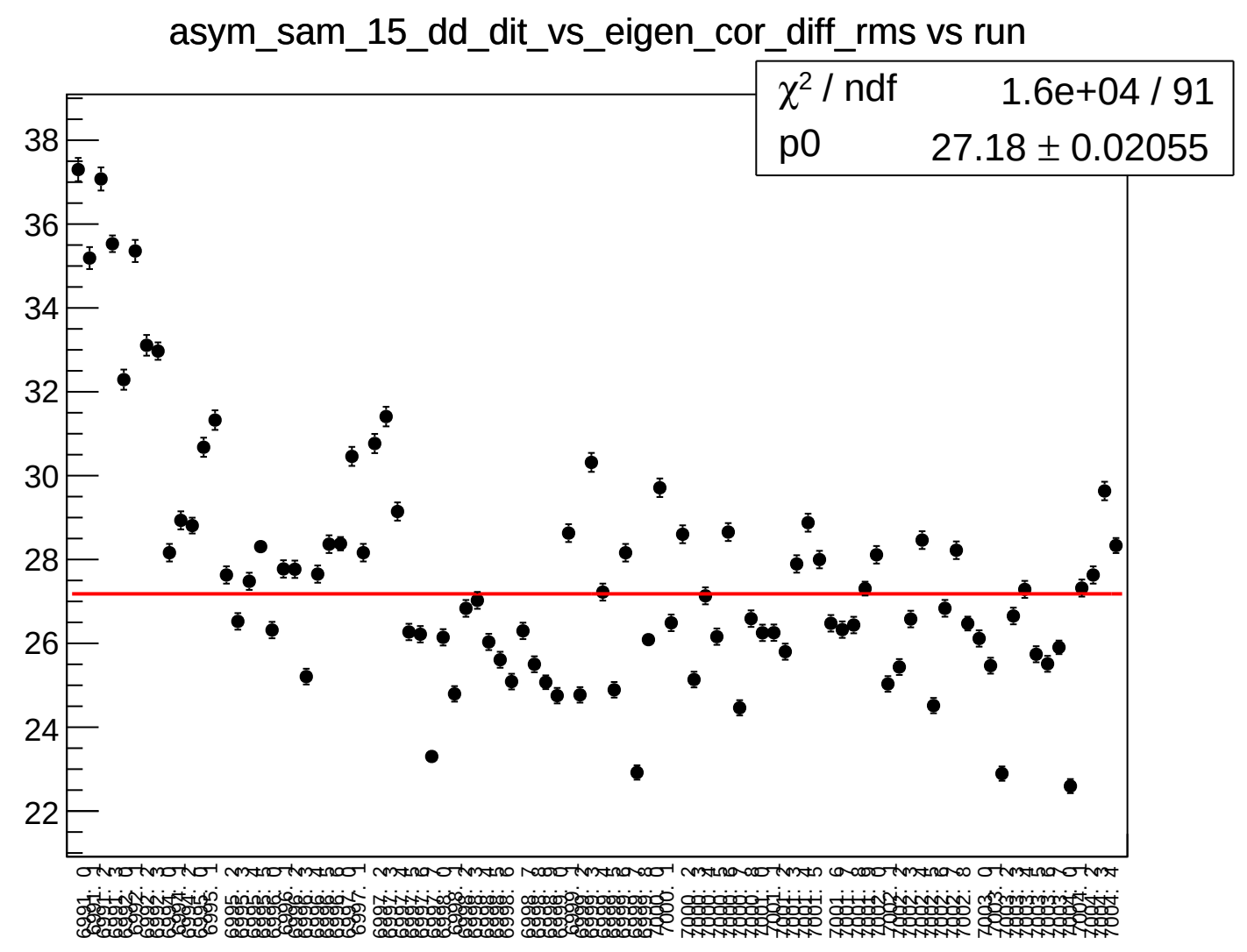

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.86 / 91
p0 −0.02914 ± 0.02906
pull
Entries 92
Mean 195
Std Dev 0

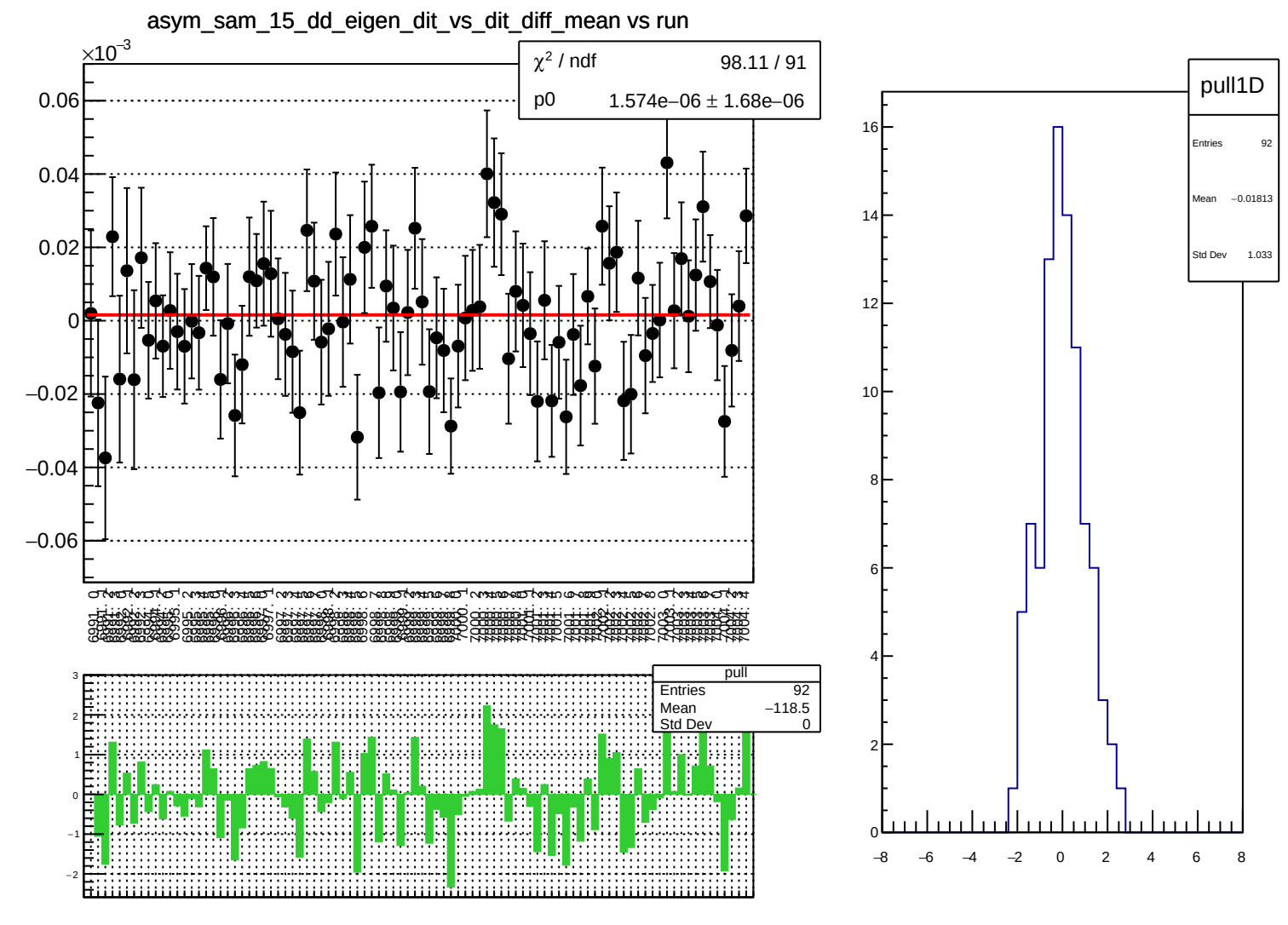

pull1D
Entries 92
Mean −0.006344
Std Dev 0.9883

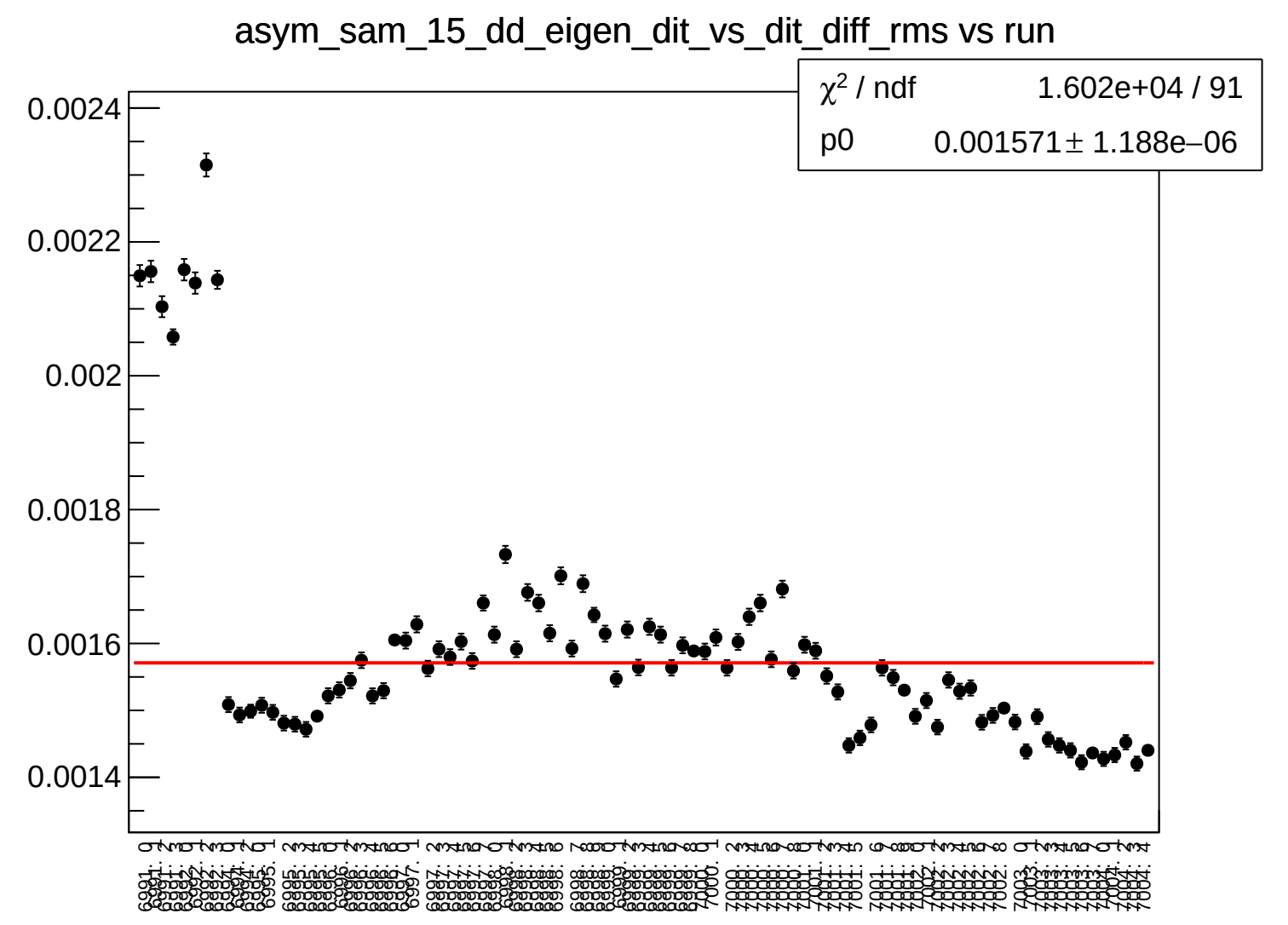

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.6e+04 / 91
p0 27.18 ± 0.02055
38
36
34
32
30
28
26
24
22

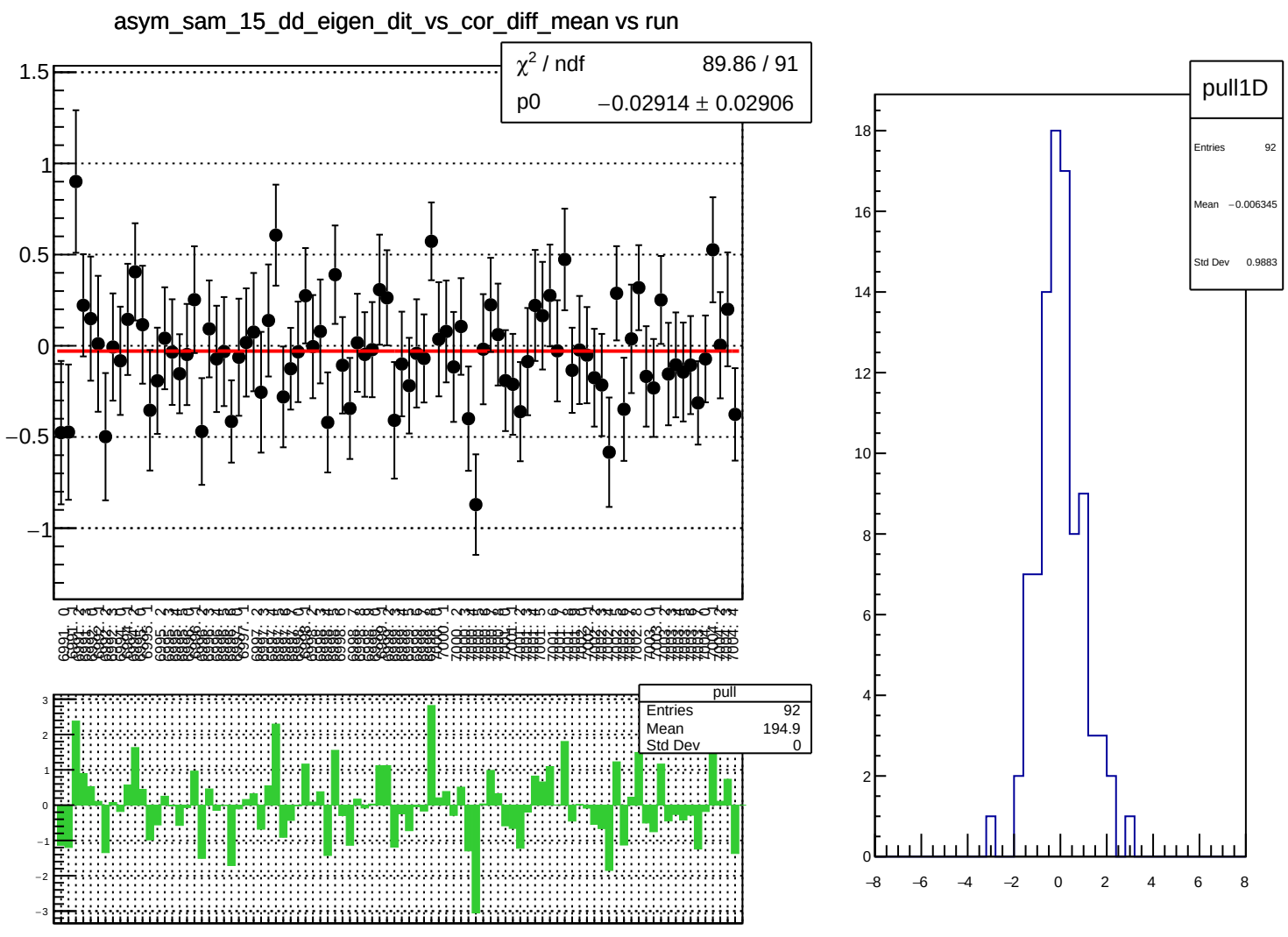

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.86 / 91
p0 −0.02914 ± 0.02906
pull
Entries 92
Mean 195
Std Dev 0

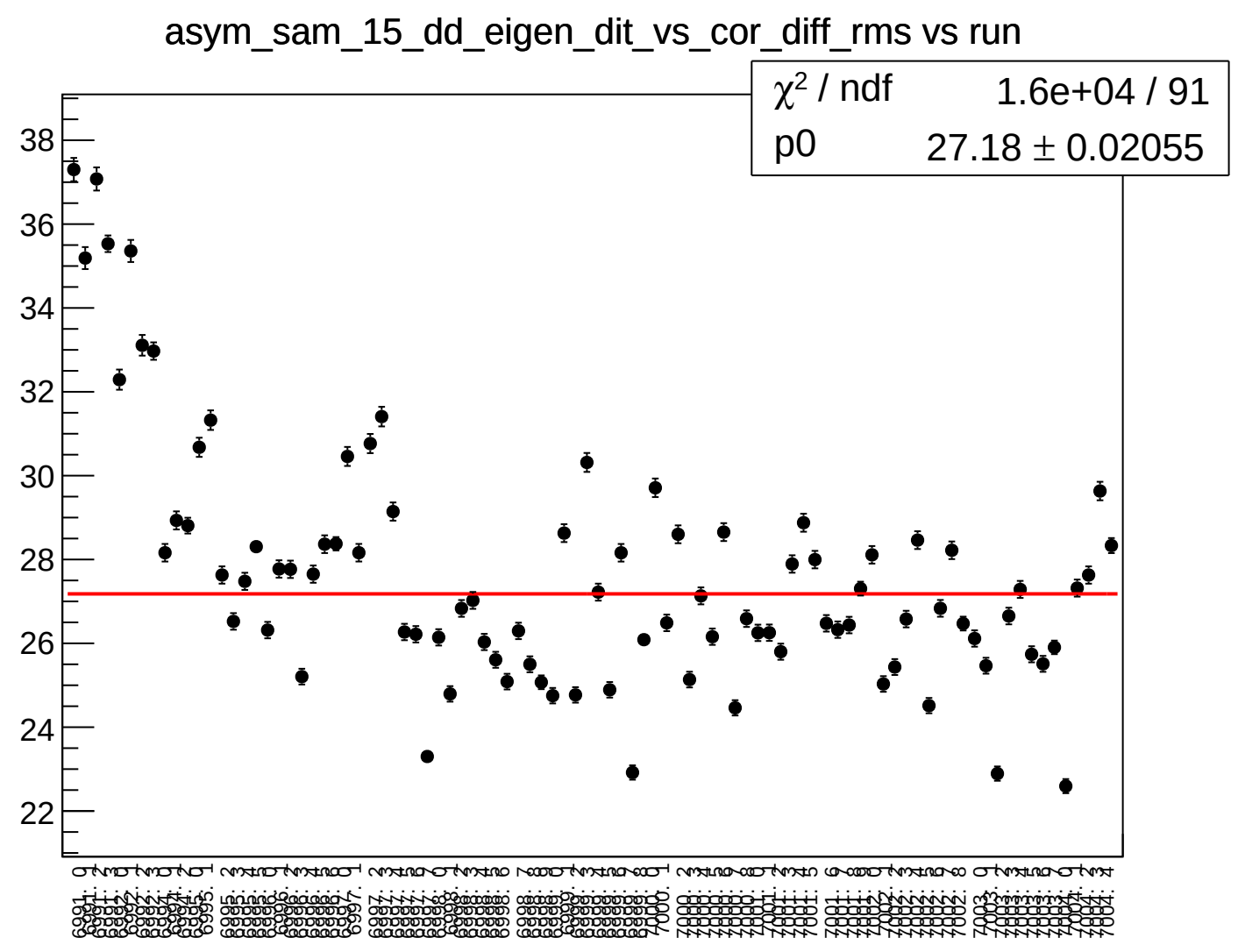

pull1D
Entries 92
Mean −0.006344
Std Dev 0.9883

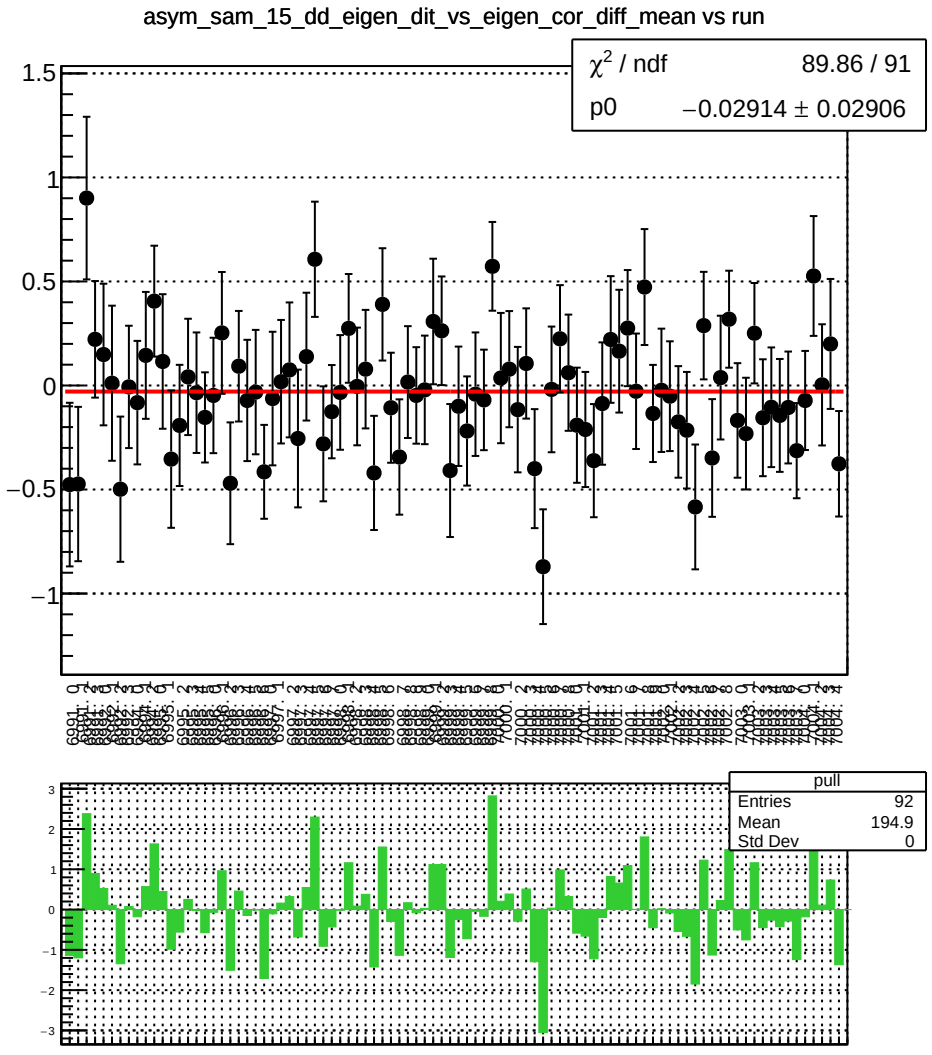

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.6e+04 / 91
p0 27.18 ± 0.02055
38
36
34
32
30
28
26
24
22

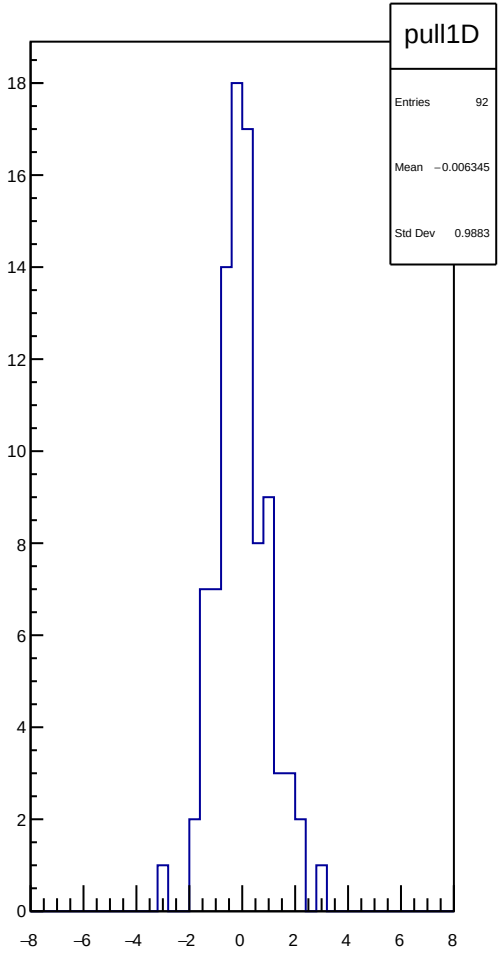

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 98.11 / 91
p0 1.574e−06 ± 1.68e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean −118.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01813
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

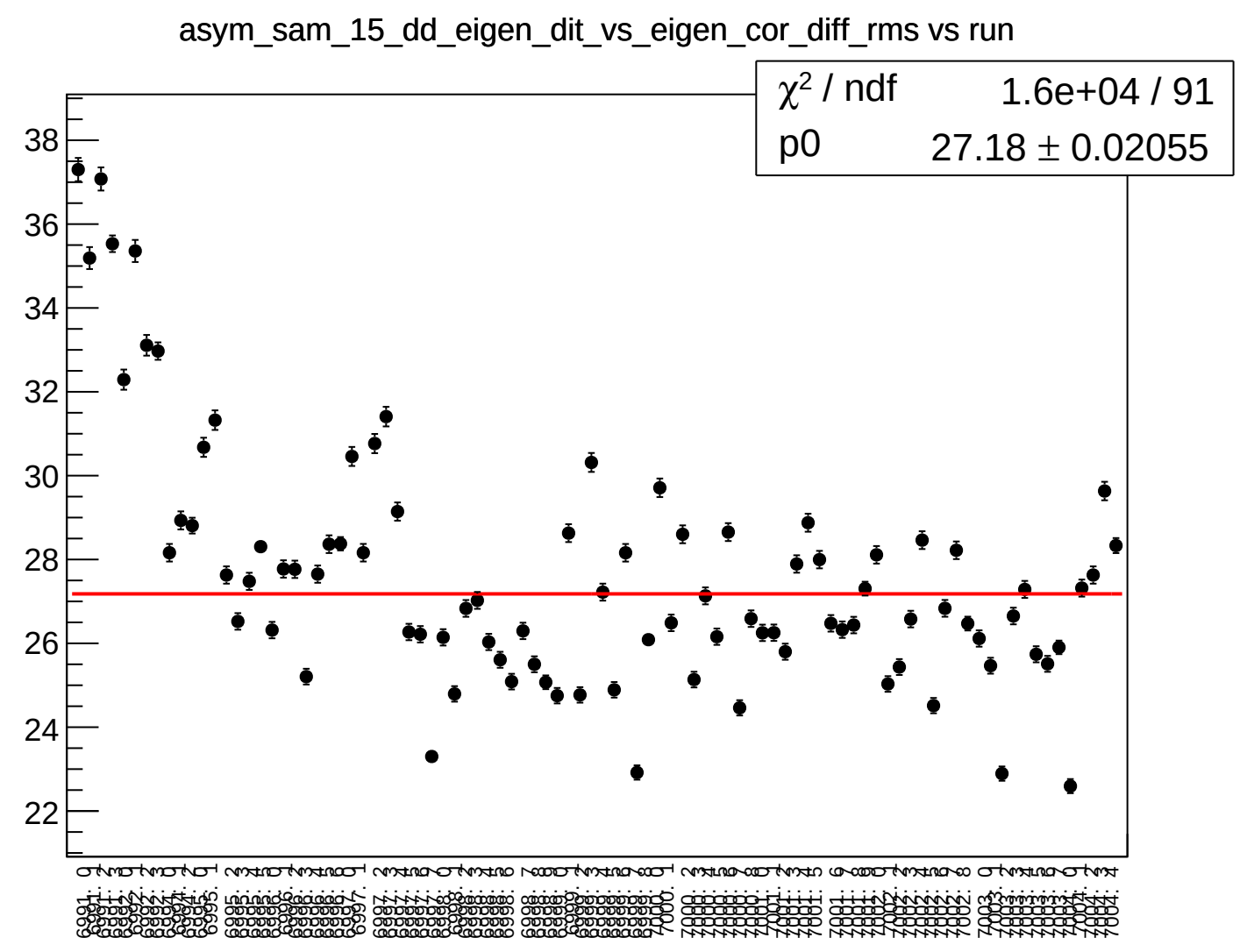

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.602e+04 / 91
p0 0.001571 ± 1.188e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

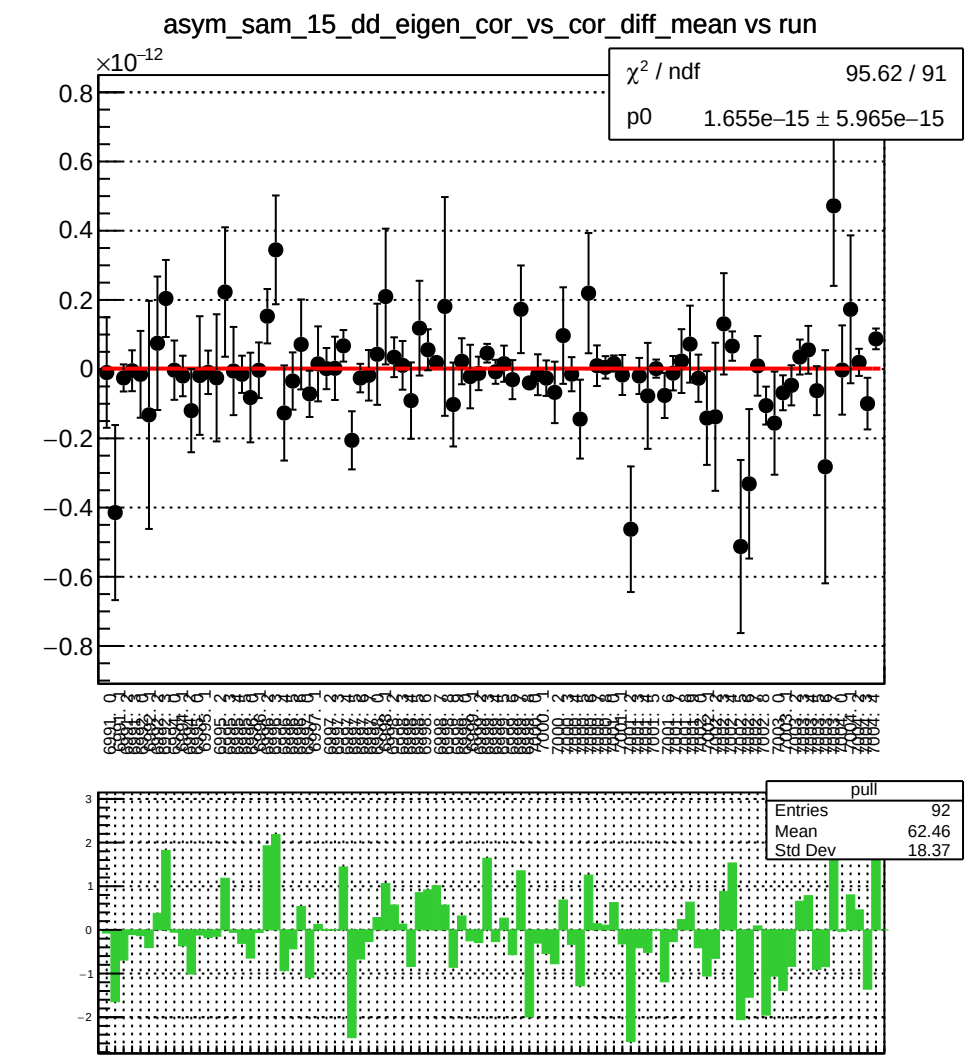

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.86 / 91
p0 −0.02914 ± 0.02906
pull
Entries 92
Mean 194.9
Std Dev 0
pull1D
Entries 92
Mean −0.006345
Std Dev 0.9883

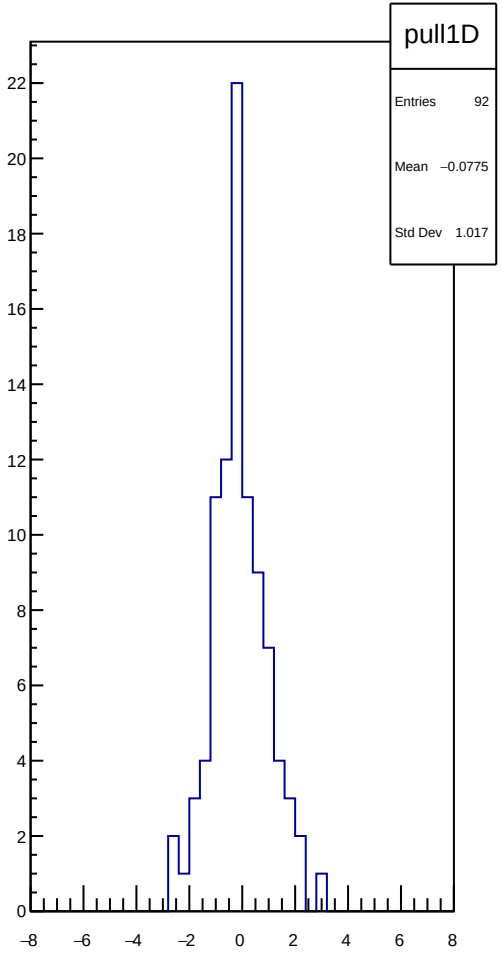

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.6e+04 / 91
p0 27.18 ± 0.02055
38
36
34
32
30
28
26
24
22

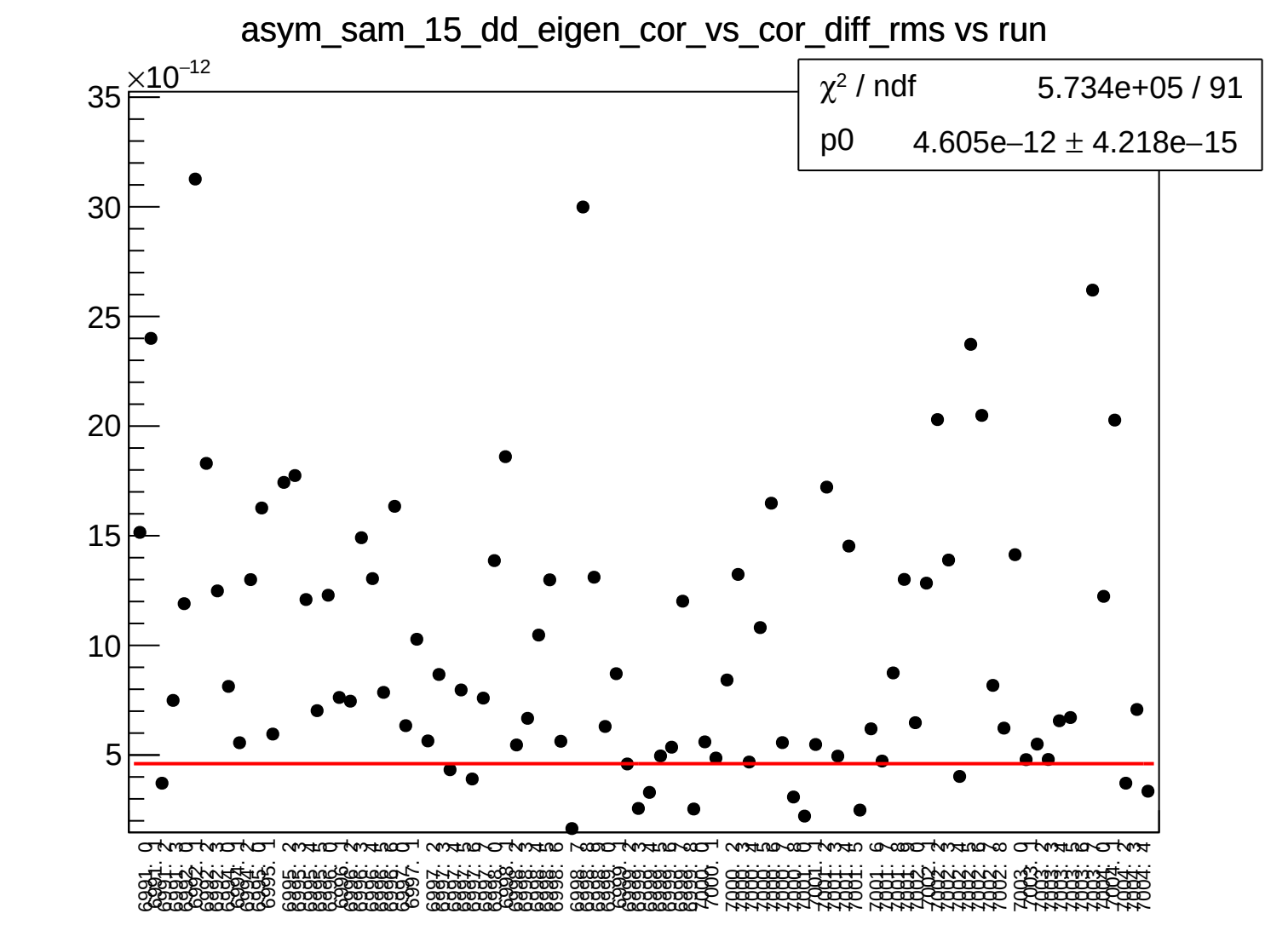

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.86 / 91
p0 −0.02914 ± 0.02906
pull
Entries 92
Mean 194.9
Std Dev 0

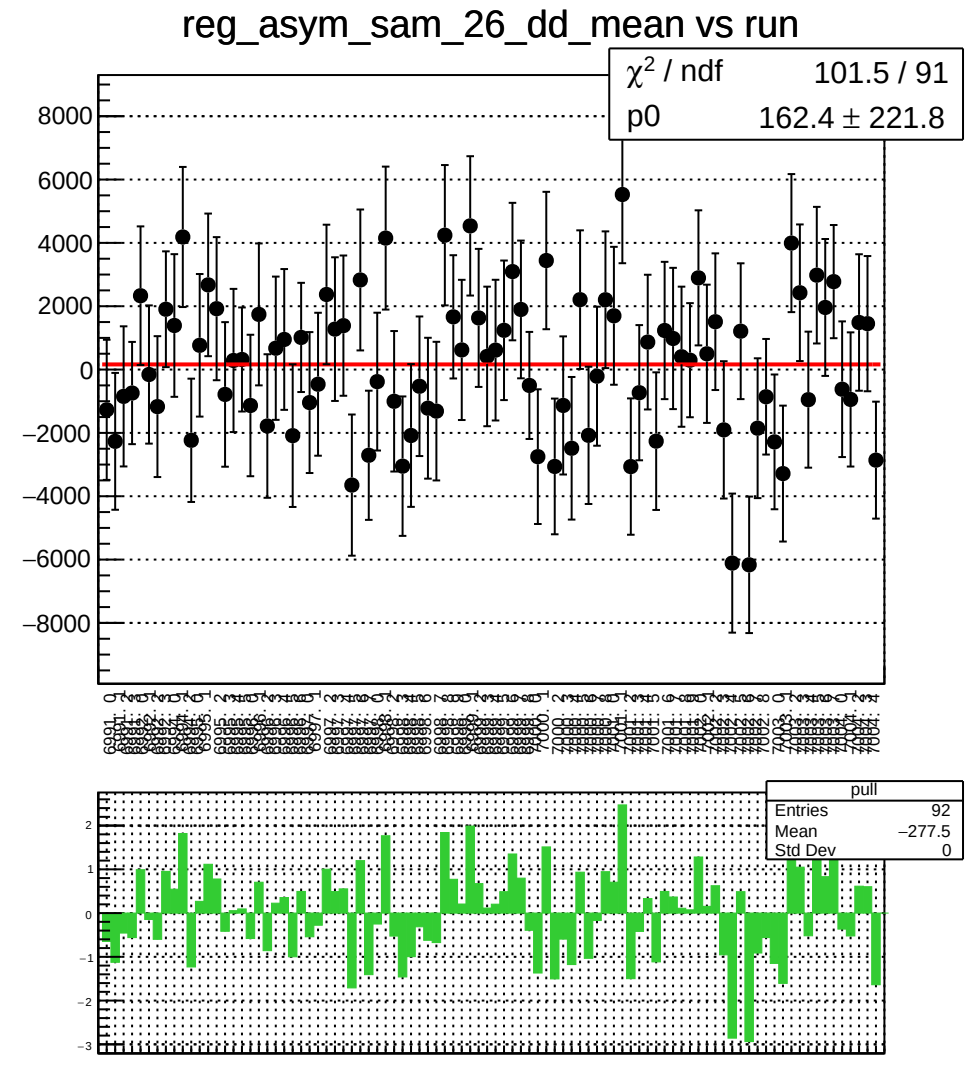

pull1D
Entries 92
Mean −0.006345
Std Dev 0.9883

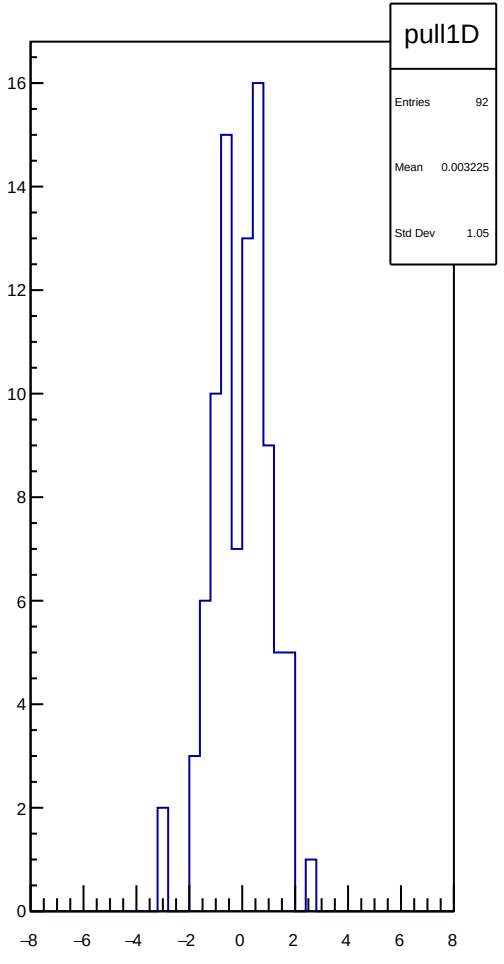

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.6e+04 / 91
p0 27.18 ± 0.02055
38
36
34
32
30
28
26
24
22

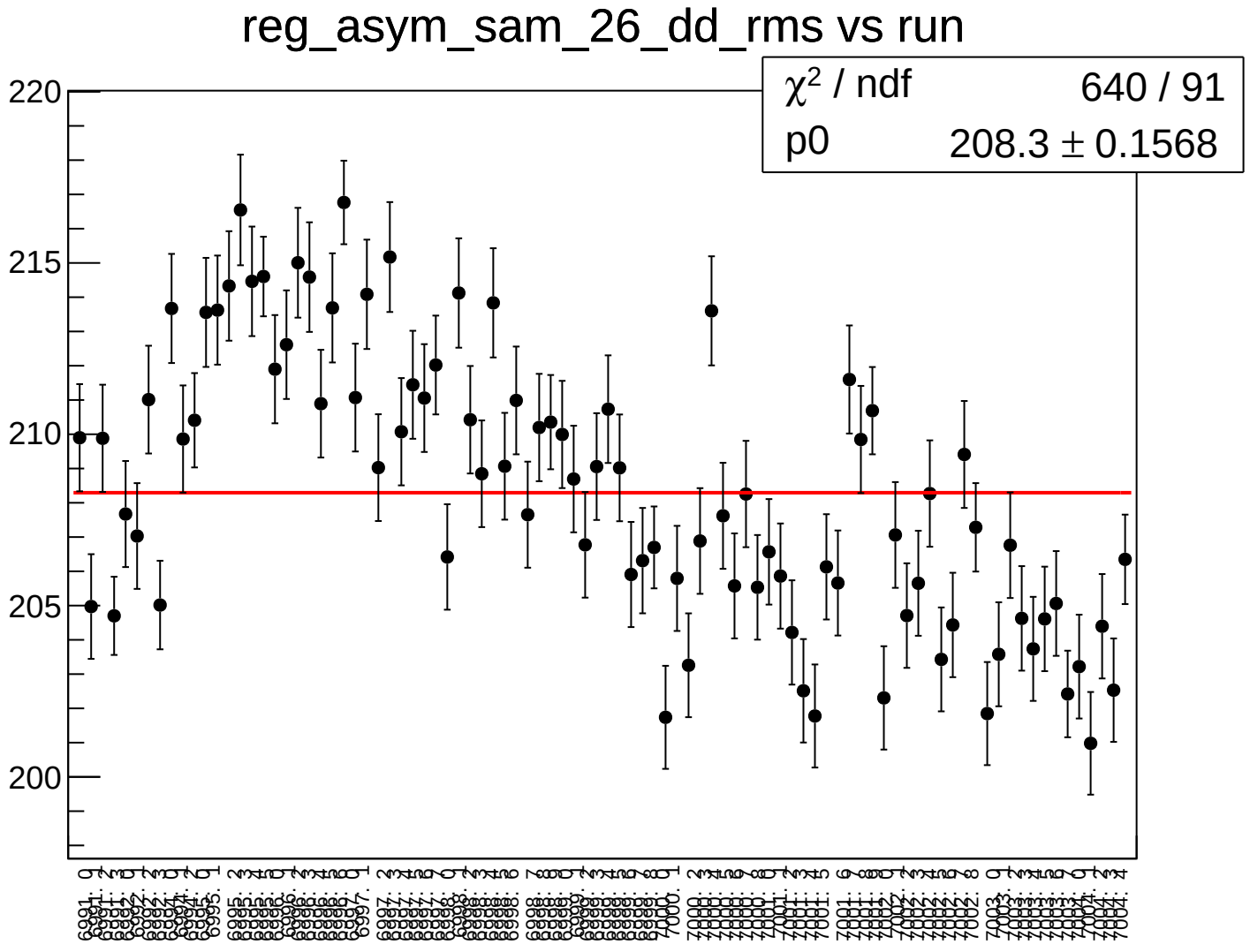

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.62 / 91
p0 1.655e−15 ± 5.965e−15
pull
Entries 92
Mean 62.46
Std Dev 18.37

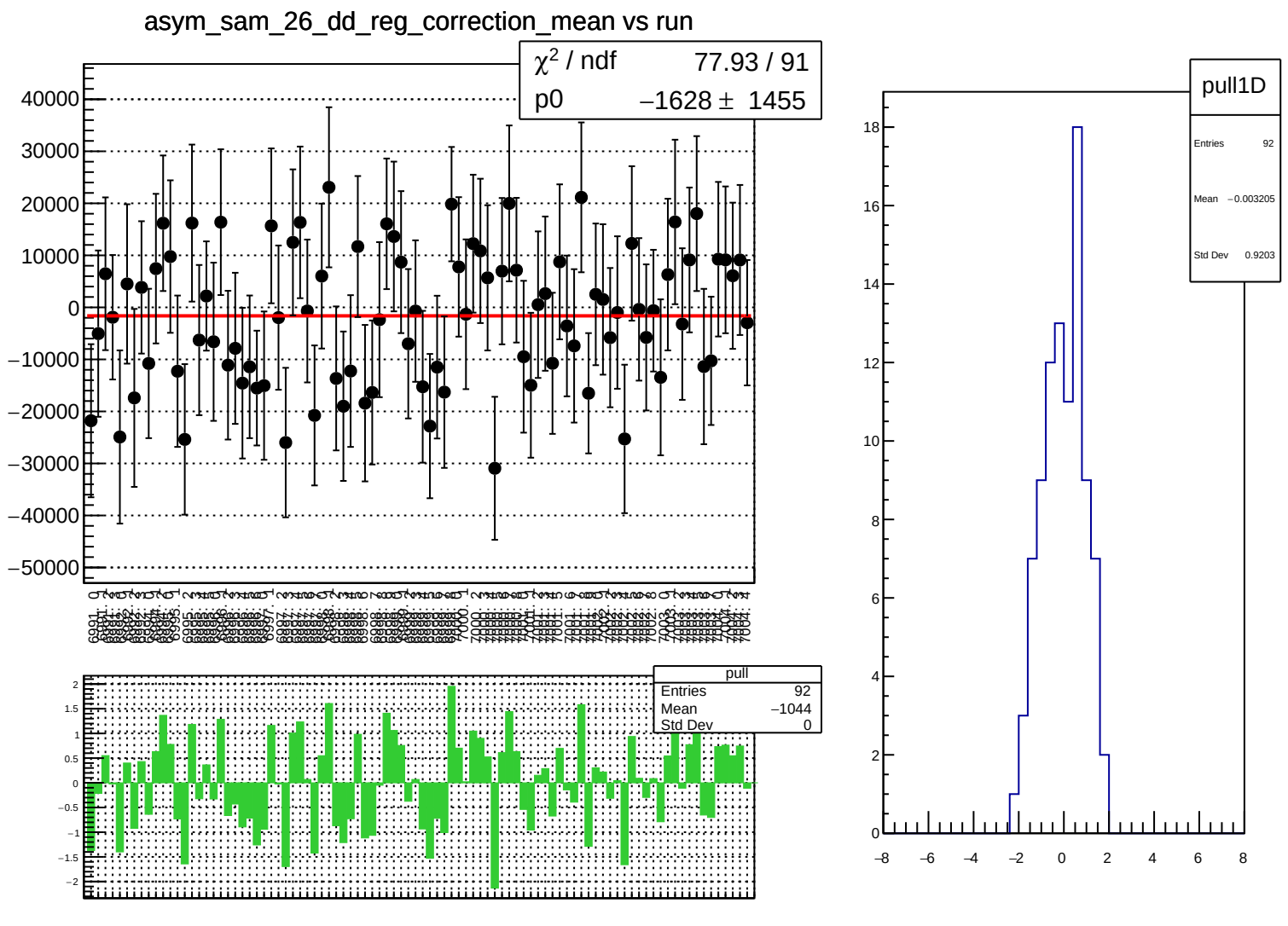

pull1D
Entries 92
Mean −0.0775
Std Dev 1.017

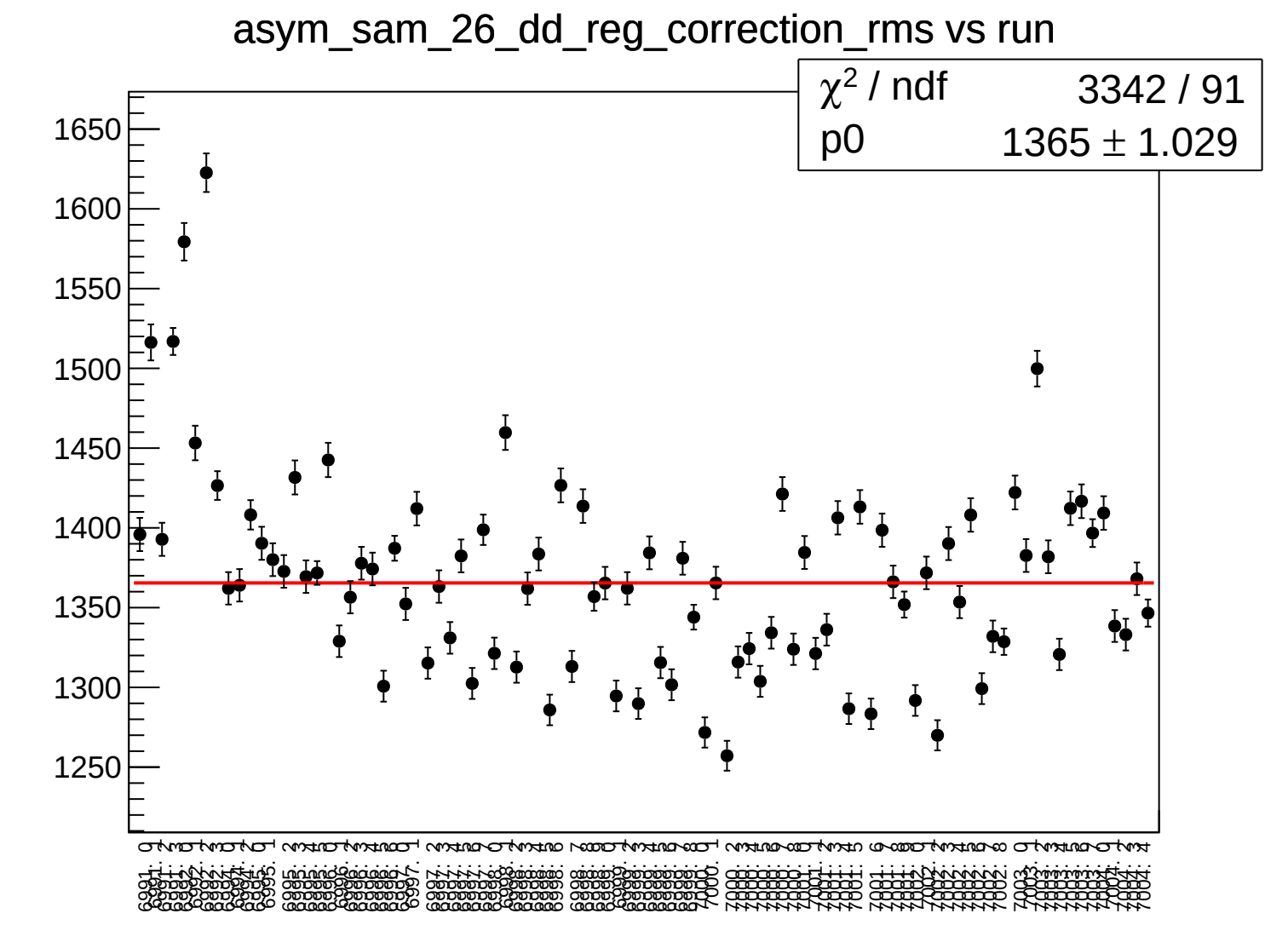

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.734e+05 / 91
p0 4.605e−12 ± 4.218e−15
35
30
25
20
15
10
5

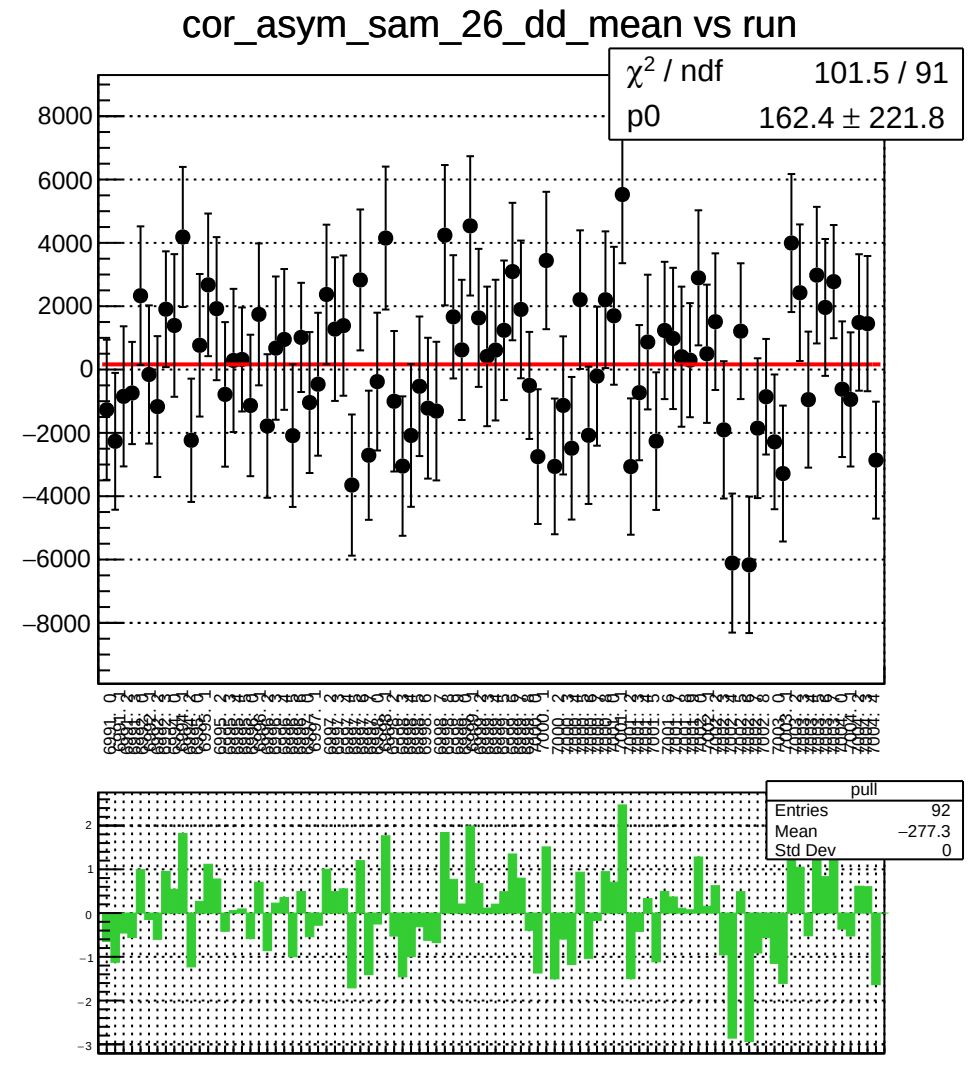

reg_asym_sam_26_dd_mean vs run
χ² / ndf 101.5 / 91
p0 162.4 ± 221.8
pull
Entries 92
Mean −277.5
Std Dev 0

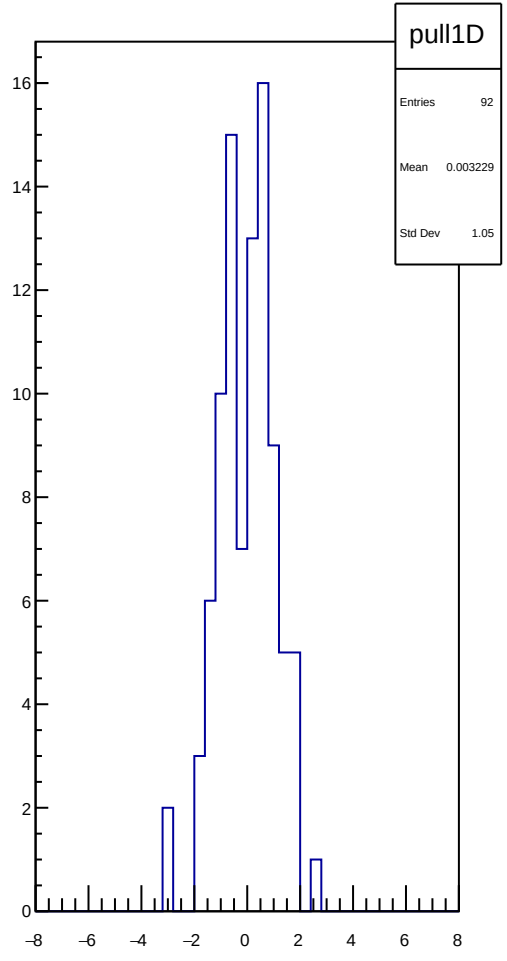

pull1D
Entries 92
Mean 0.003225
Std Dev 1.05

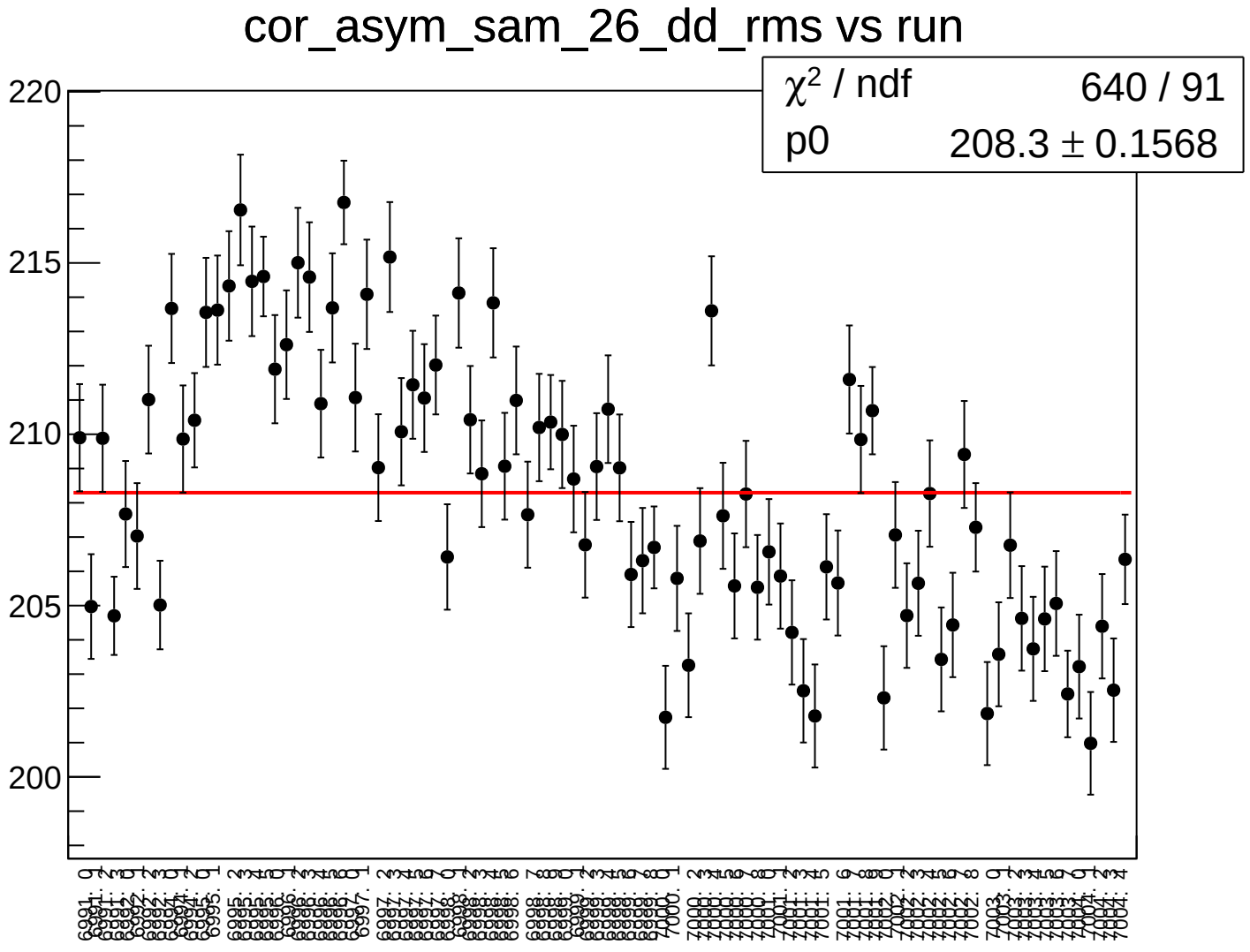

reg_asym_sam_26_dd_rms vs run
χ² / ndf 640 / 91
p0 208.3 ± 0.1568
220
215
210
205
200

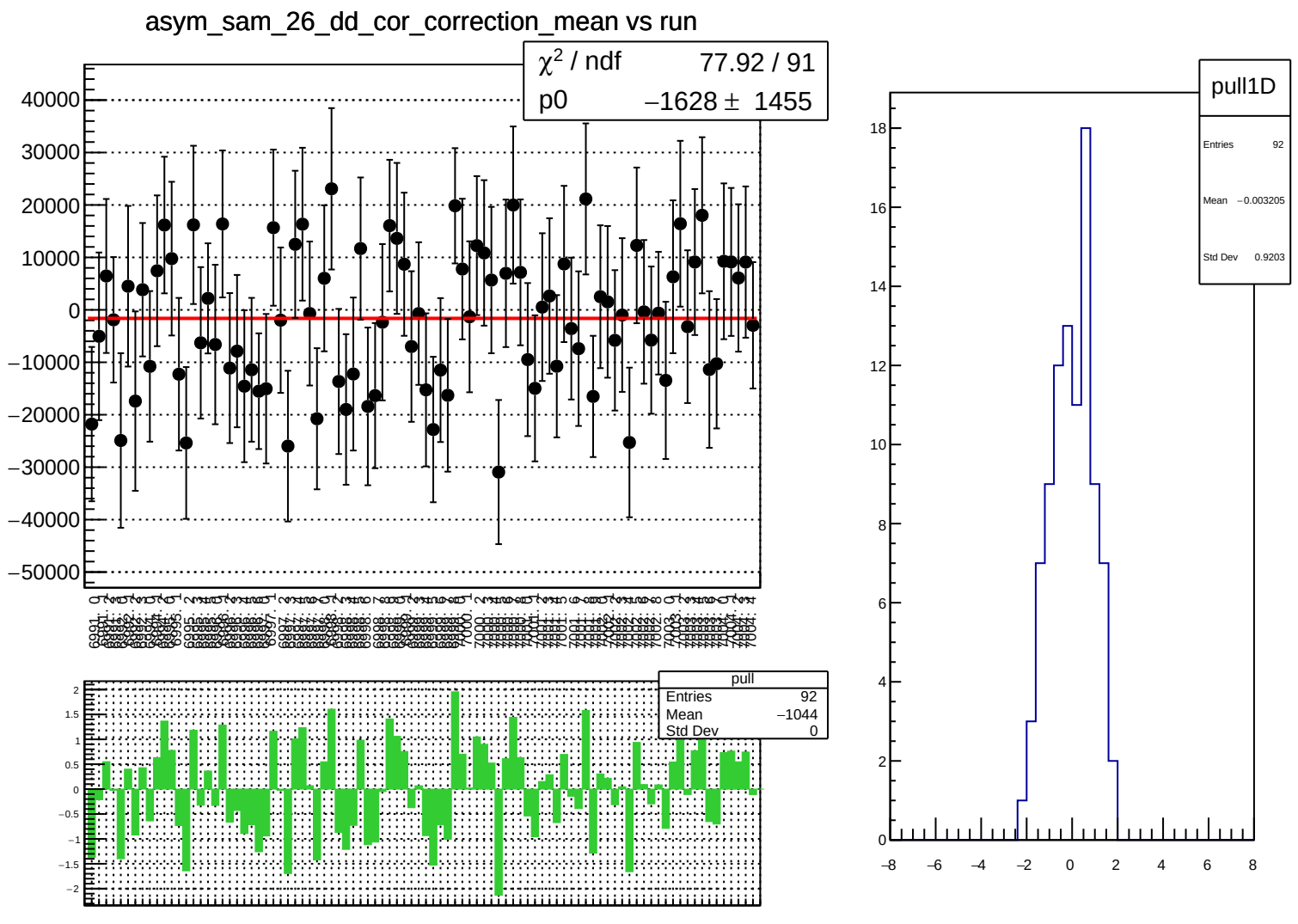

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 77.93 / 91
p0 −1628 ± 1455
pull
Entries 92
Mean −1044
Std Dev 0
pull1D
Entries 92
Mean −0.003205
Std Dev 0.9203

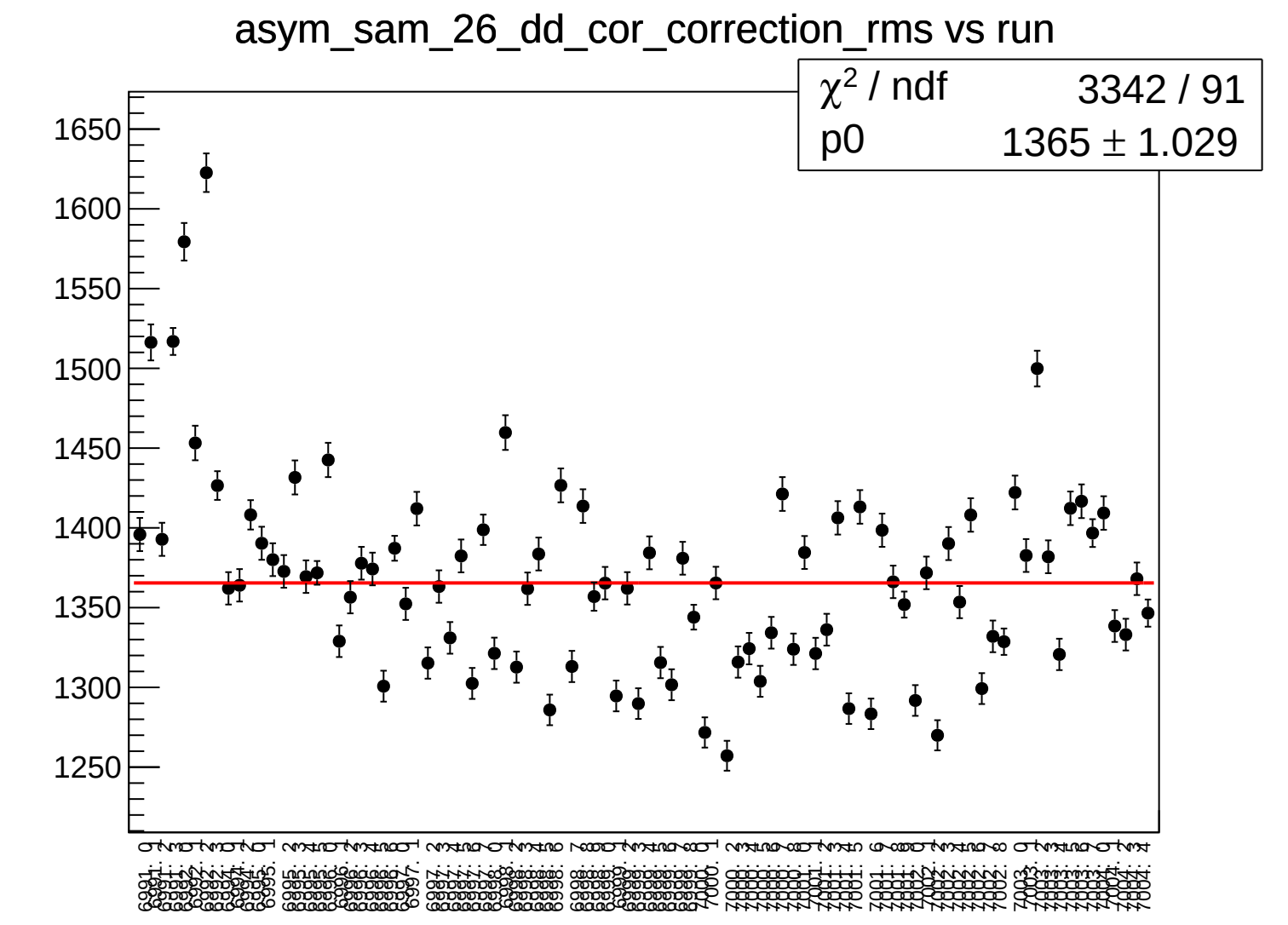

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 3342 / 91
p0 1365 ± 1.029
1650
1600
1550
1500
1450
1400
1350
1300
1250

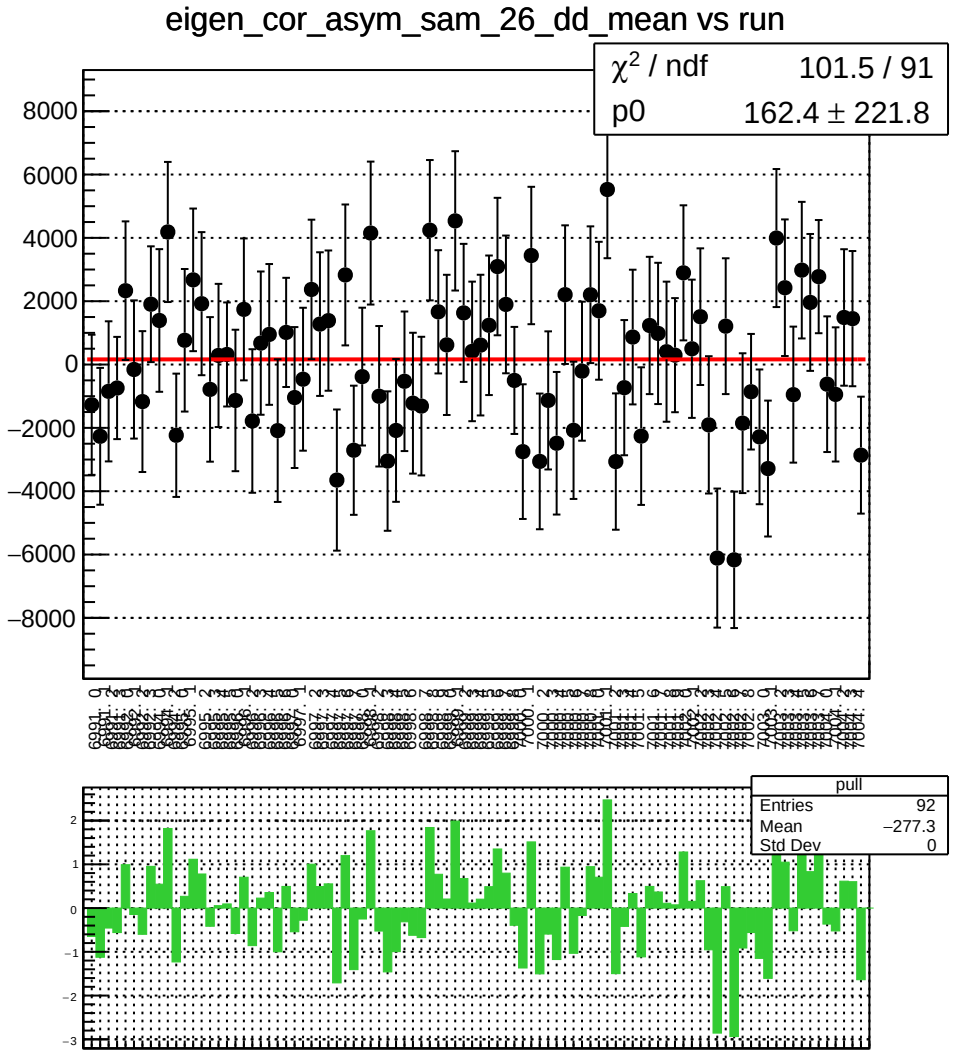

cor_asym_sam_26_dd_mean vs run
χ² / ndf 101.5 / 91
p0 162.4 ± 221.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −277.3
Std Dev 0
2
1
0
−1
−2
−3

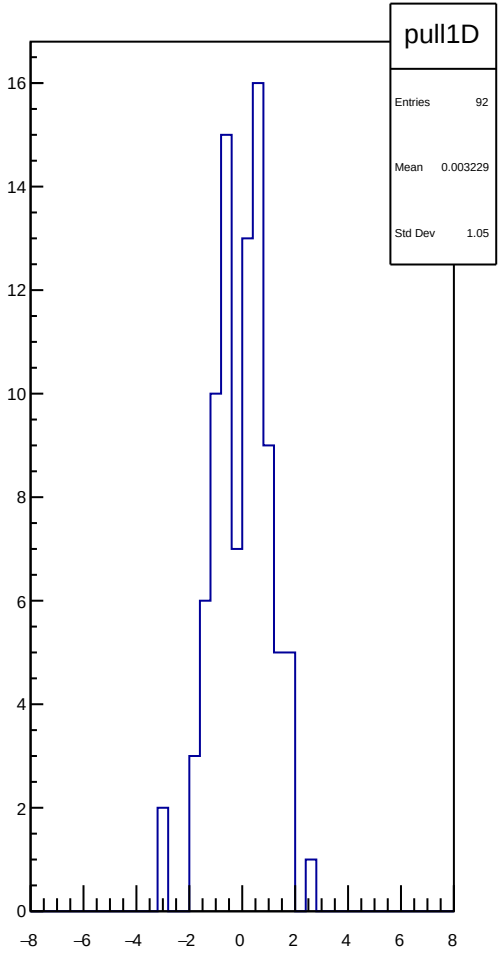

pull1D
Entries 92
Mean 0.003229
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

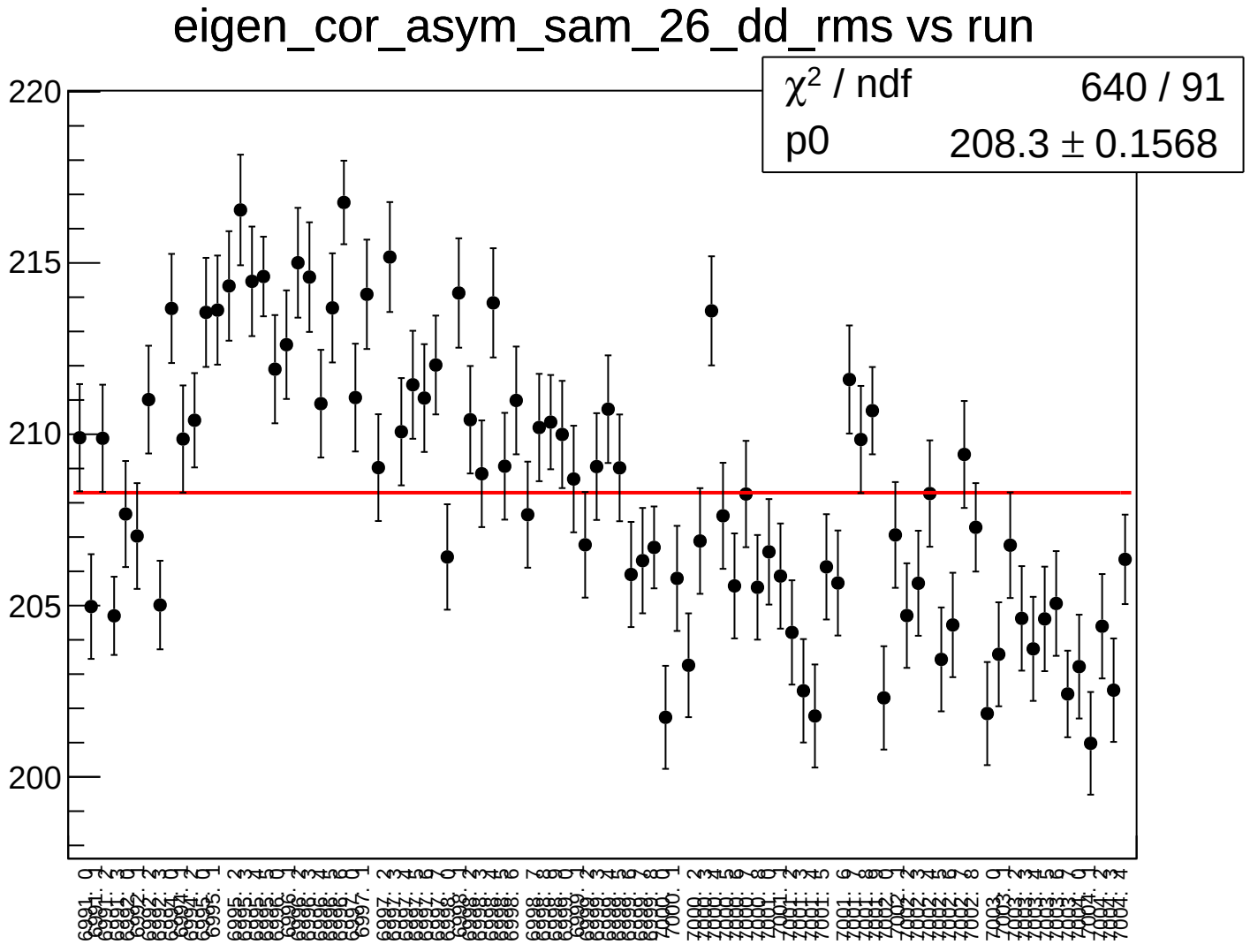

cor_asym_sam_26_dd_rms vs run
χ² / ndf 640 / 91
p0 208.3 ± 0.1568
220
215
210
205
200

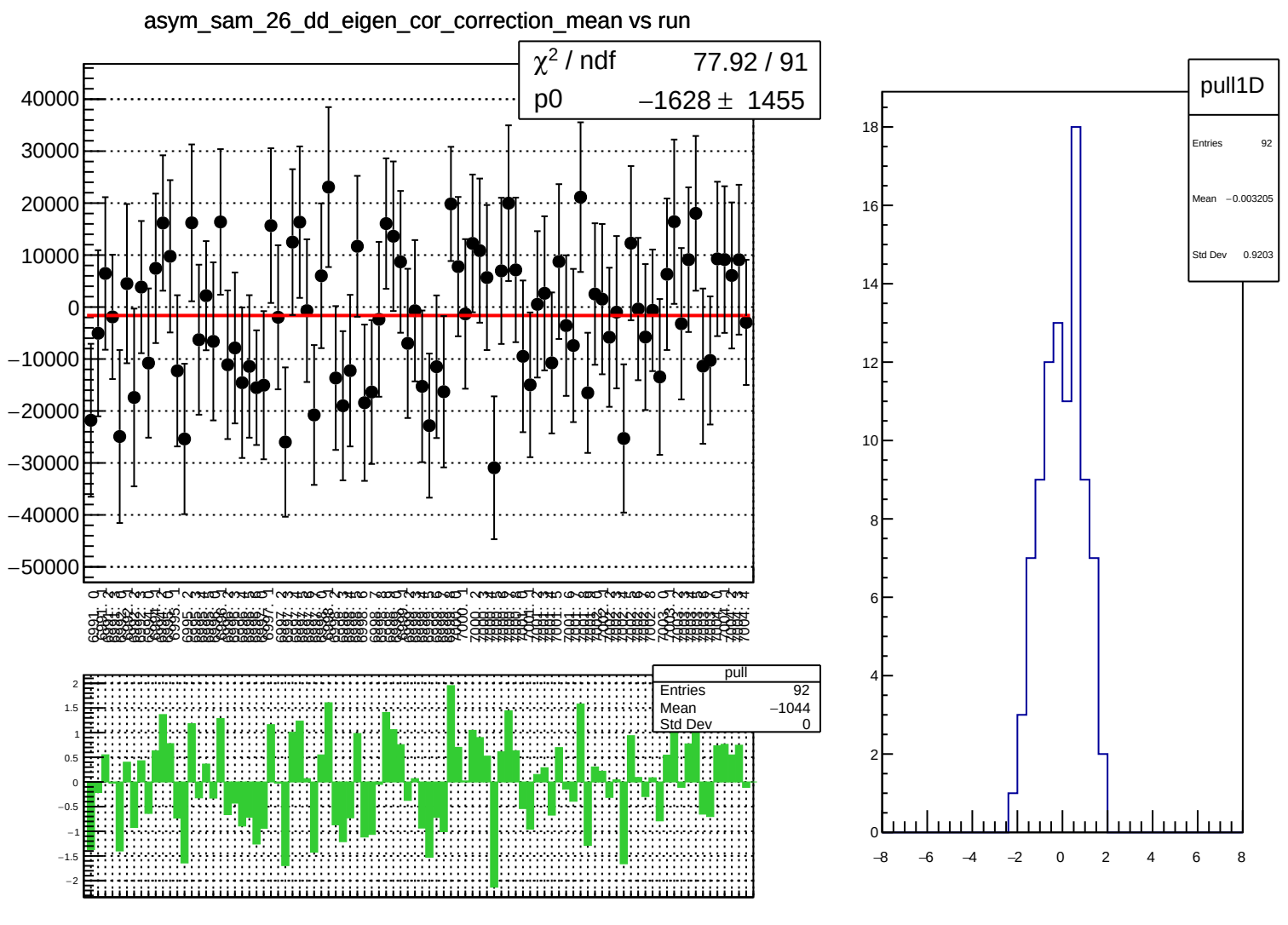

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 77.92 / 91
p0 −1628 ± 1455
pull
Entries 92
Mean −1044
Std Dev 0
pull1D
Entries 92
Mean −0.003205
Std Dev 0.9203

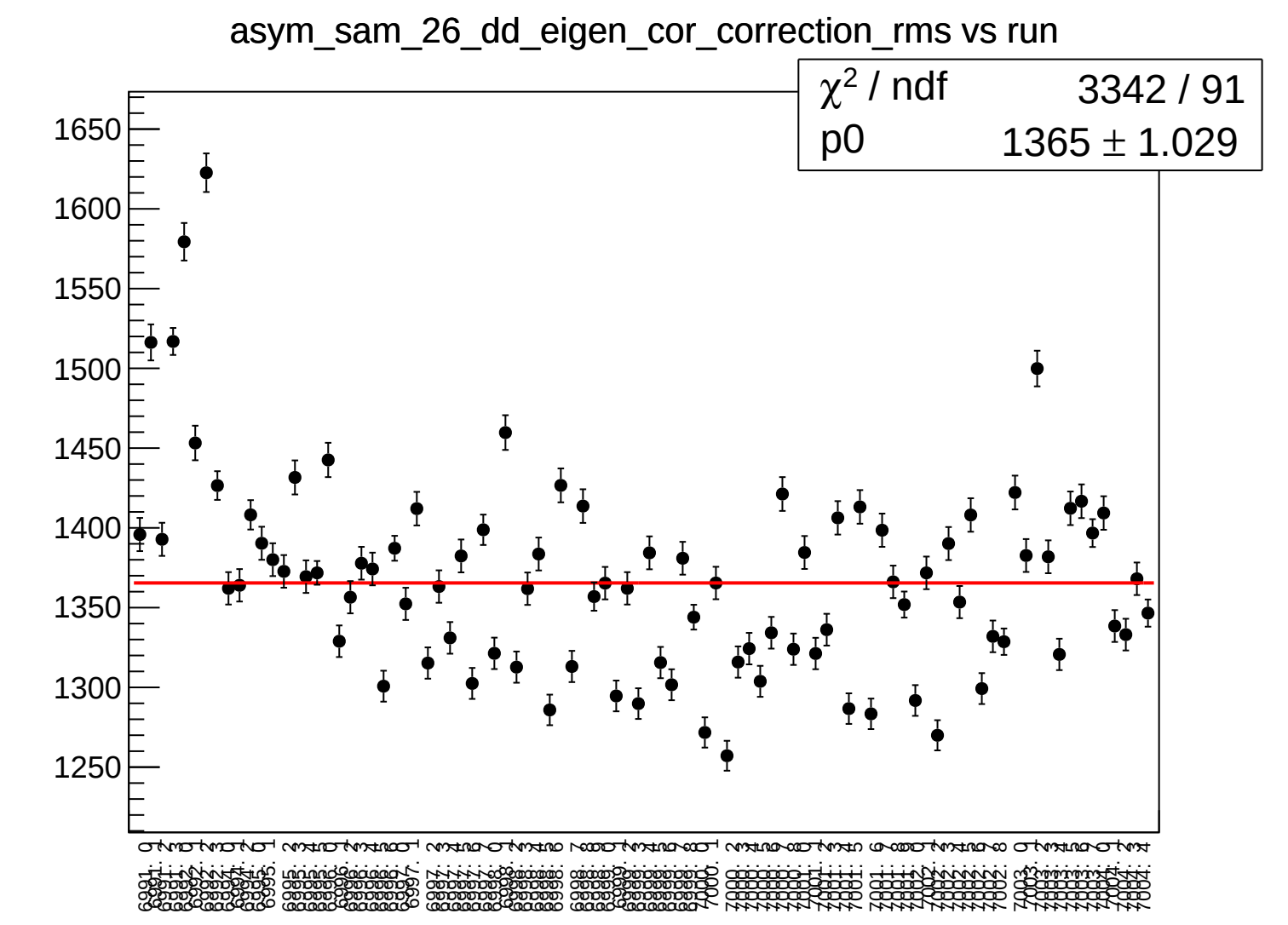

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 3342 / 91
p0 1365 ± 1.029
1650
1600
1550
1500
1450
1400
1350
1300
1250

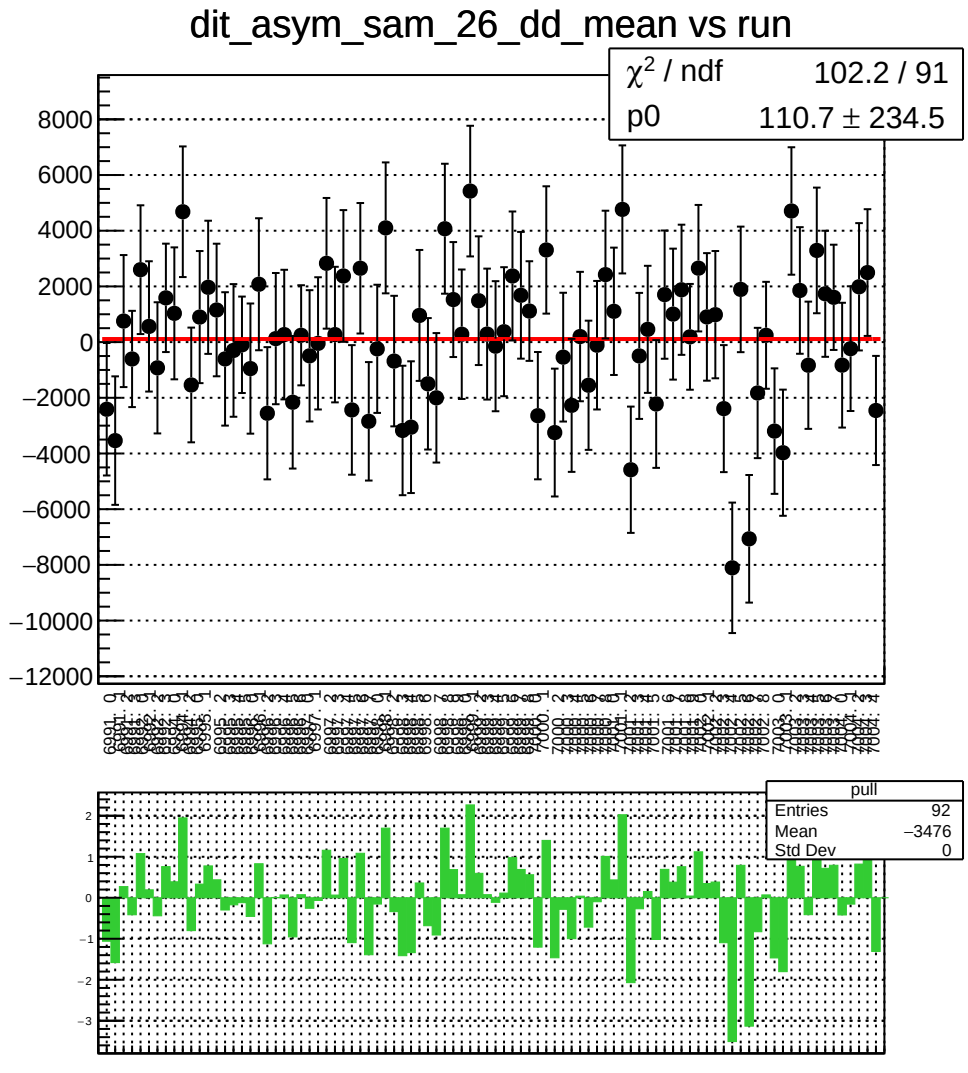

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 101.5 / 91
p0 162.4 ± 221.8
pull
Entries 92
Mean −277.3
Std Dev 0

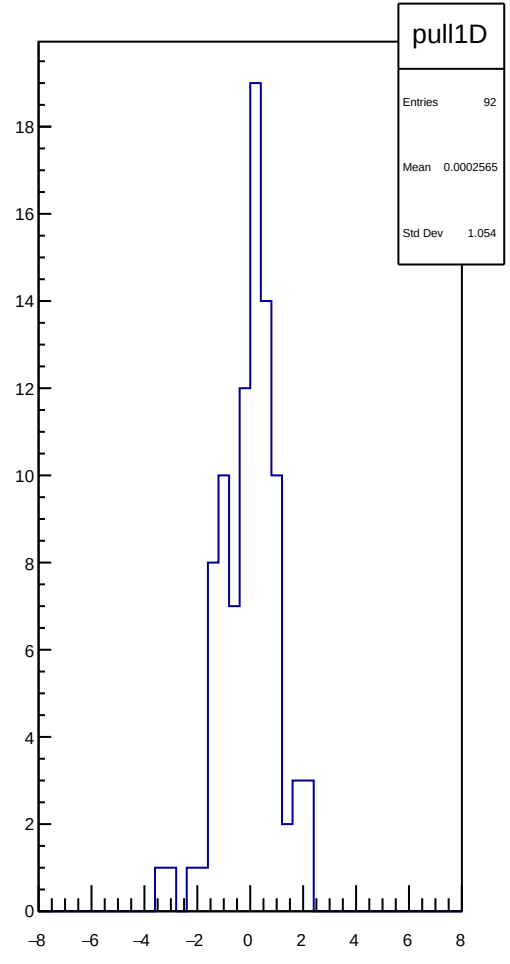

pull1D
Entries 92
Mean 0.003229
Std Dev 1.05

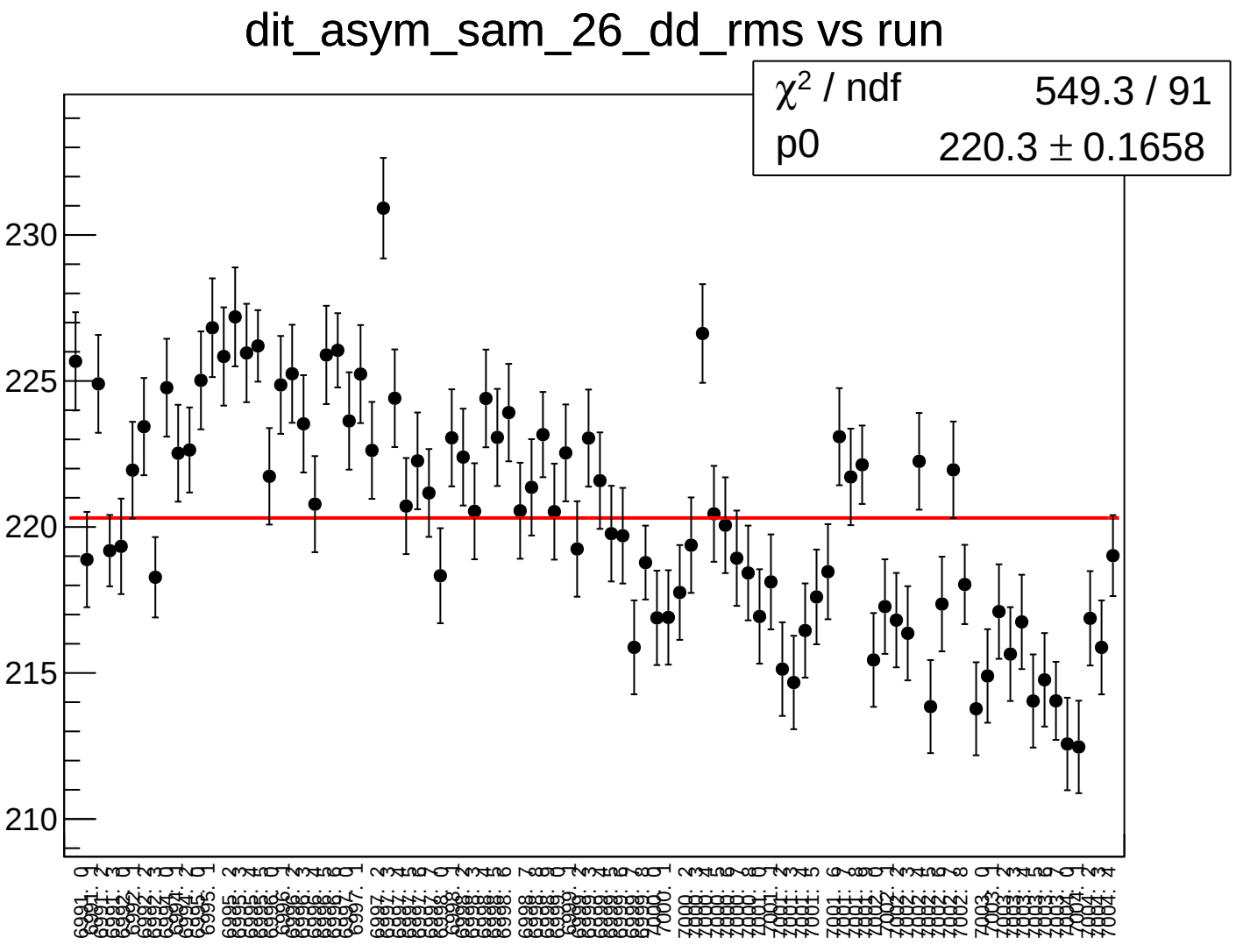

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 640 / 91
p0 208.3 ± 0.1568
220
215
210
205
200

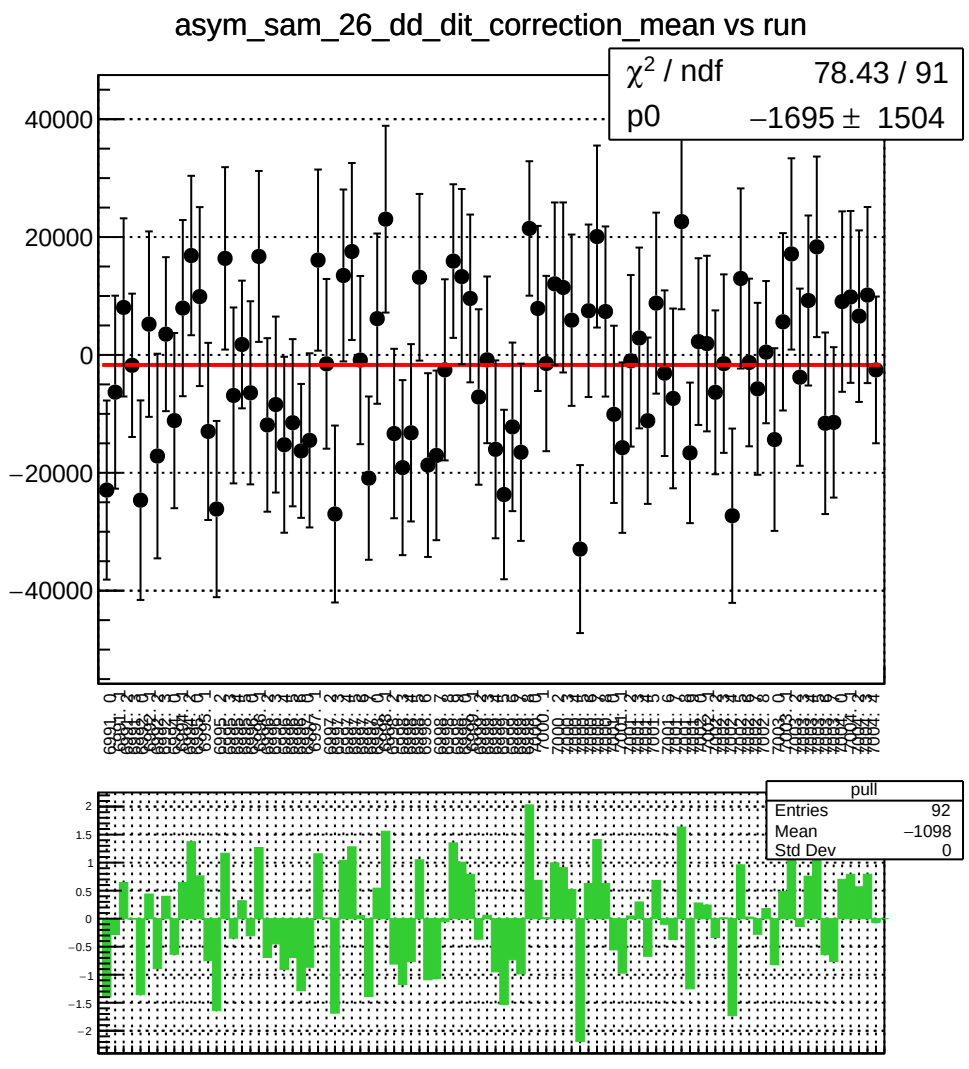

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.92 / 91
p0 −1628 ± 1455
pull
Entries 92
Mean −1044
Std Dev 0
pull1D
Entries 92
Mean −0.003205
Std Dev 0.9203

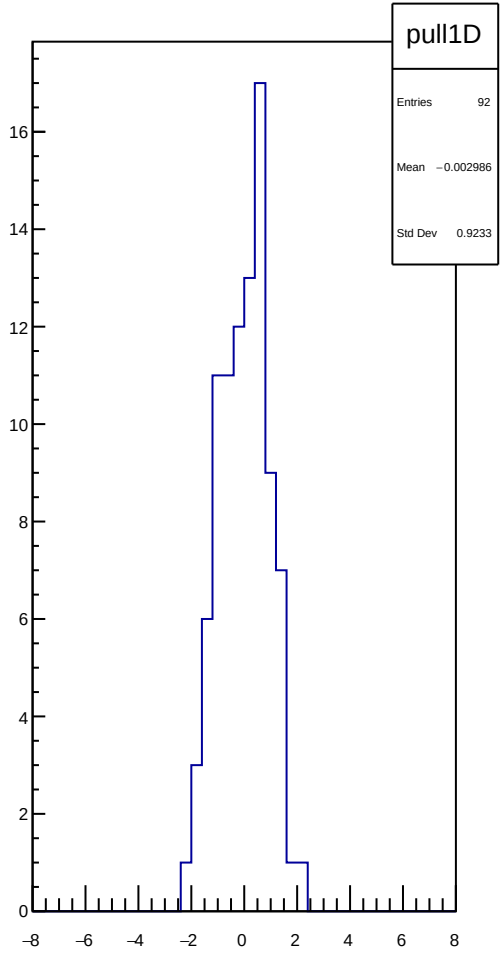

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3342 / 91
p0 1365 ± 1.029
1650
1600
1550
1500
1450
1400
1350
1300
1250

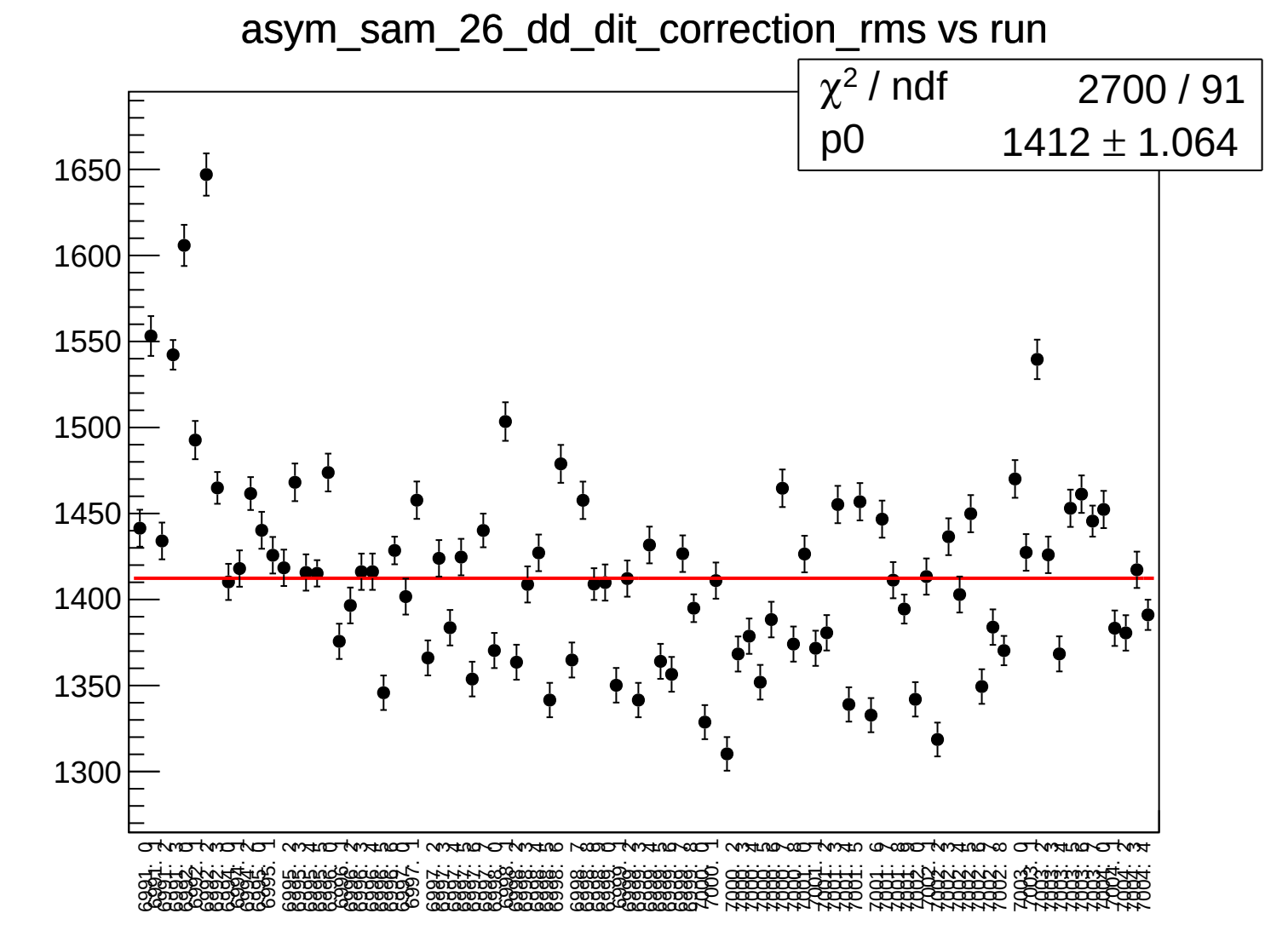

dit_asym_sam_26_dd_mean vs run
χ² / ndf 102.2 / 91
p0 110.7 ± 234.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 92
Mean −3476
Std Dev 0
2
1
0
−1
−2
−3

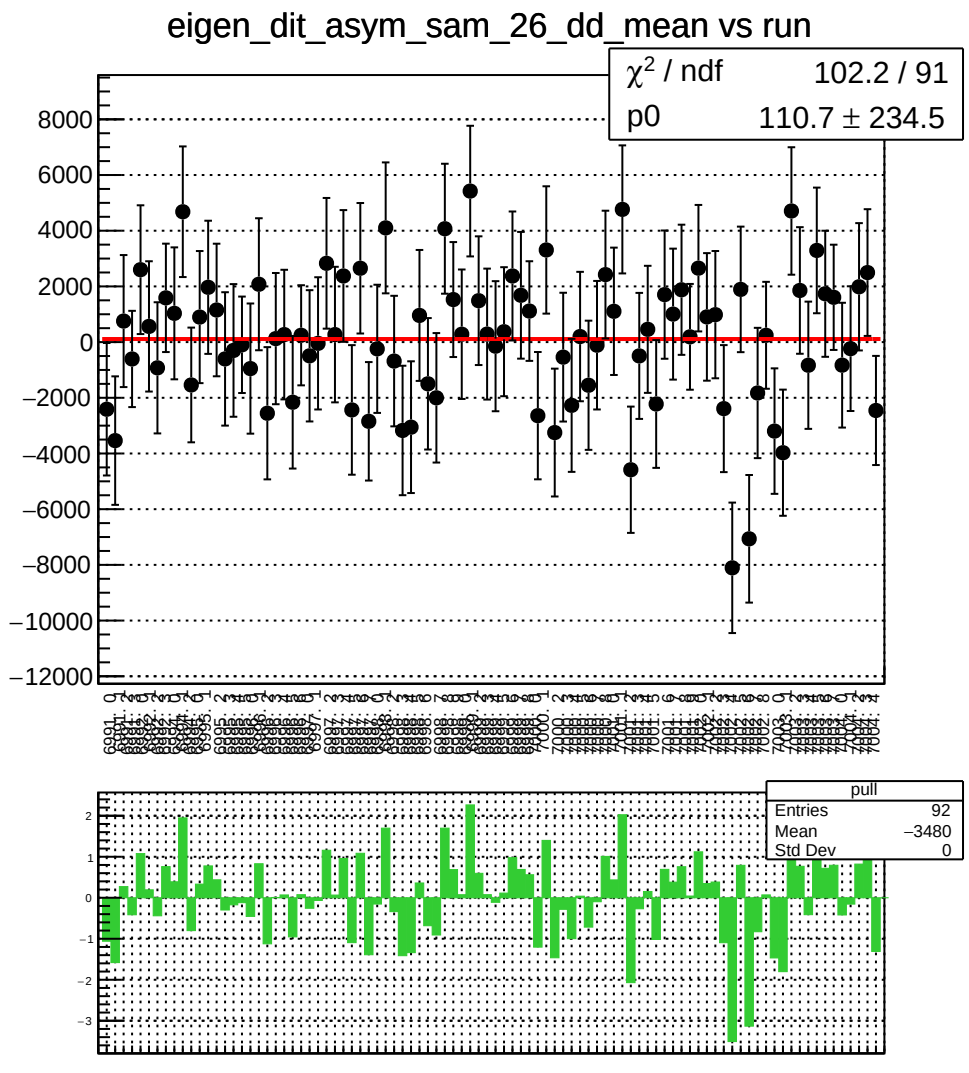

pull1D
Entries 92
Mean 0.0002565
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

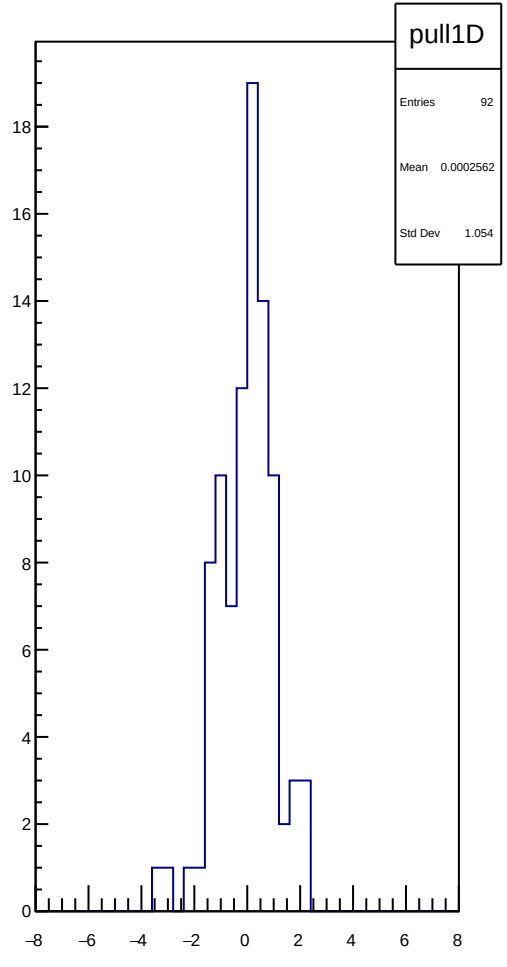

dit_asym_sam_26_dd_rms vs run
χ² / ndf 549.3 / 91
p0 220.3 ± 0.1658
230
225
220
215
210

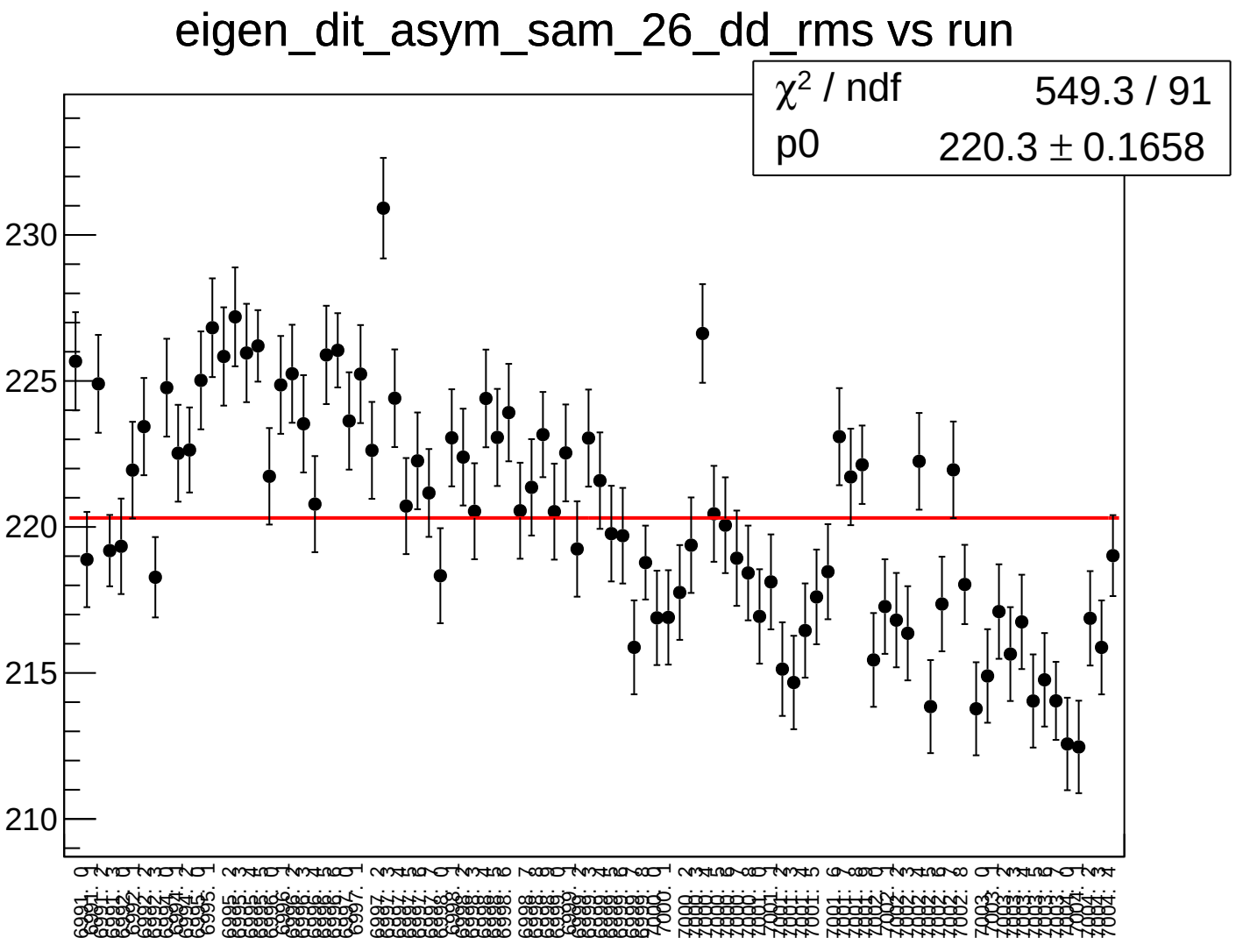

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 78.43 / 91
p0 −1695 ± 1504
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −1098
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

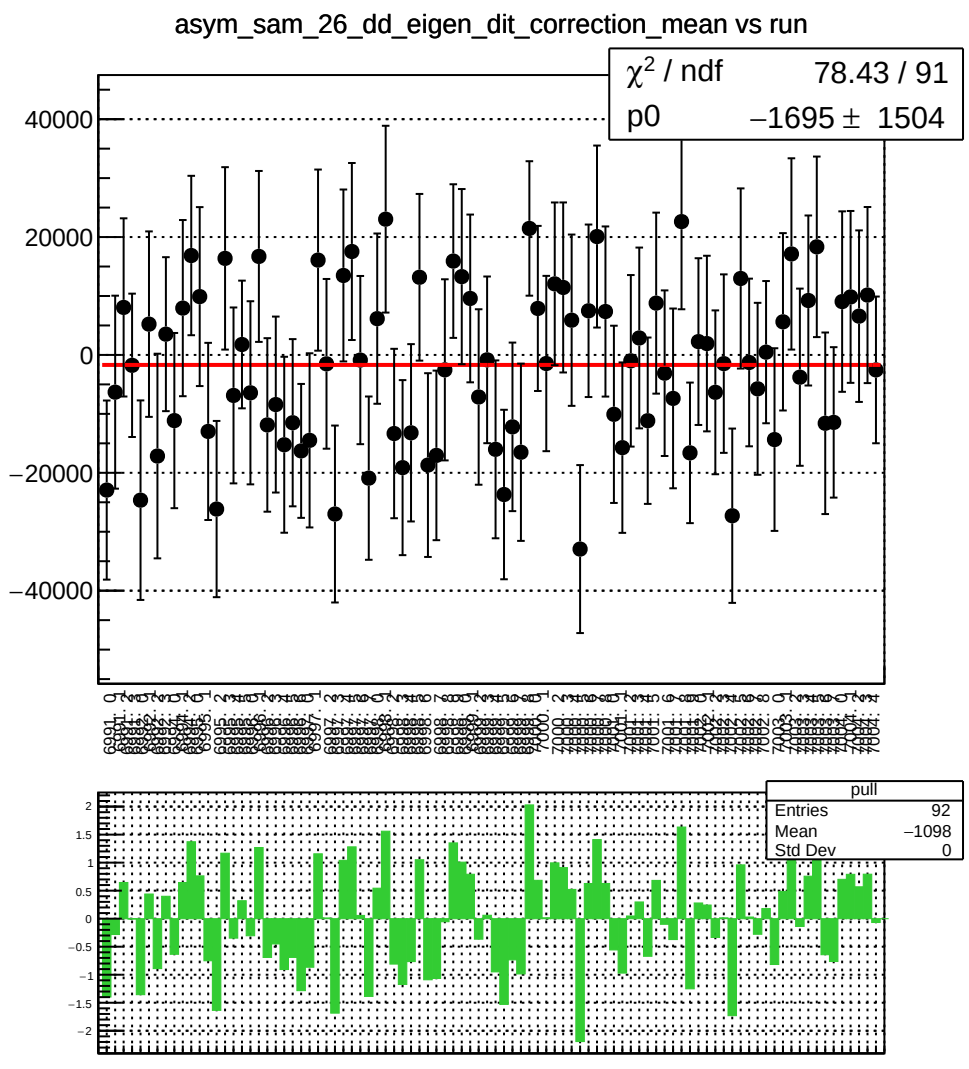

pull1D
Entries 92
Mean −0.002986
Std Dev 0.9233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

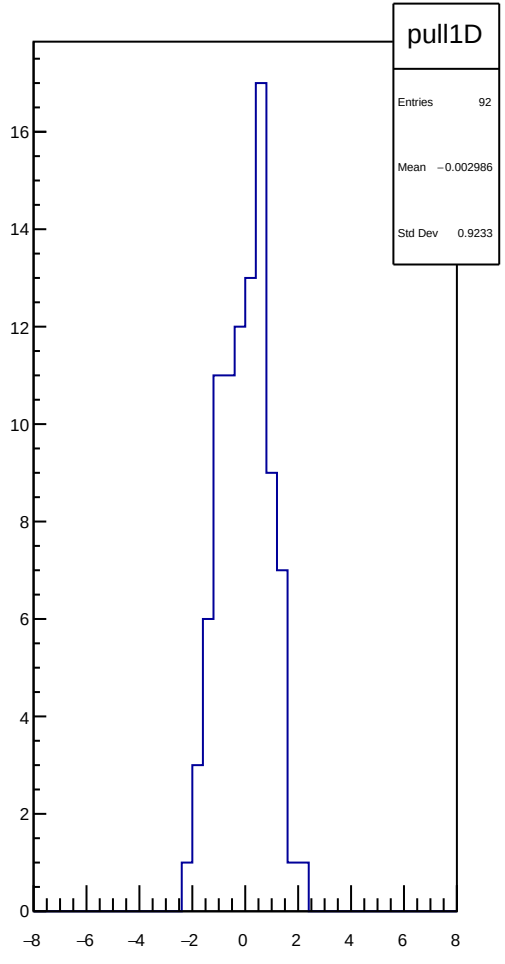

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2700 / 91
p0 1412 ± 1.064
1650
1600
1550
1500
1450
1400
1350
1300

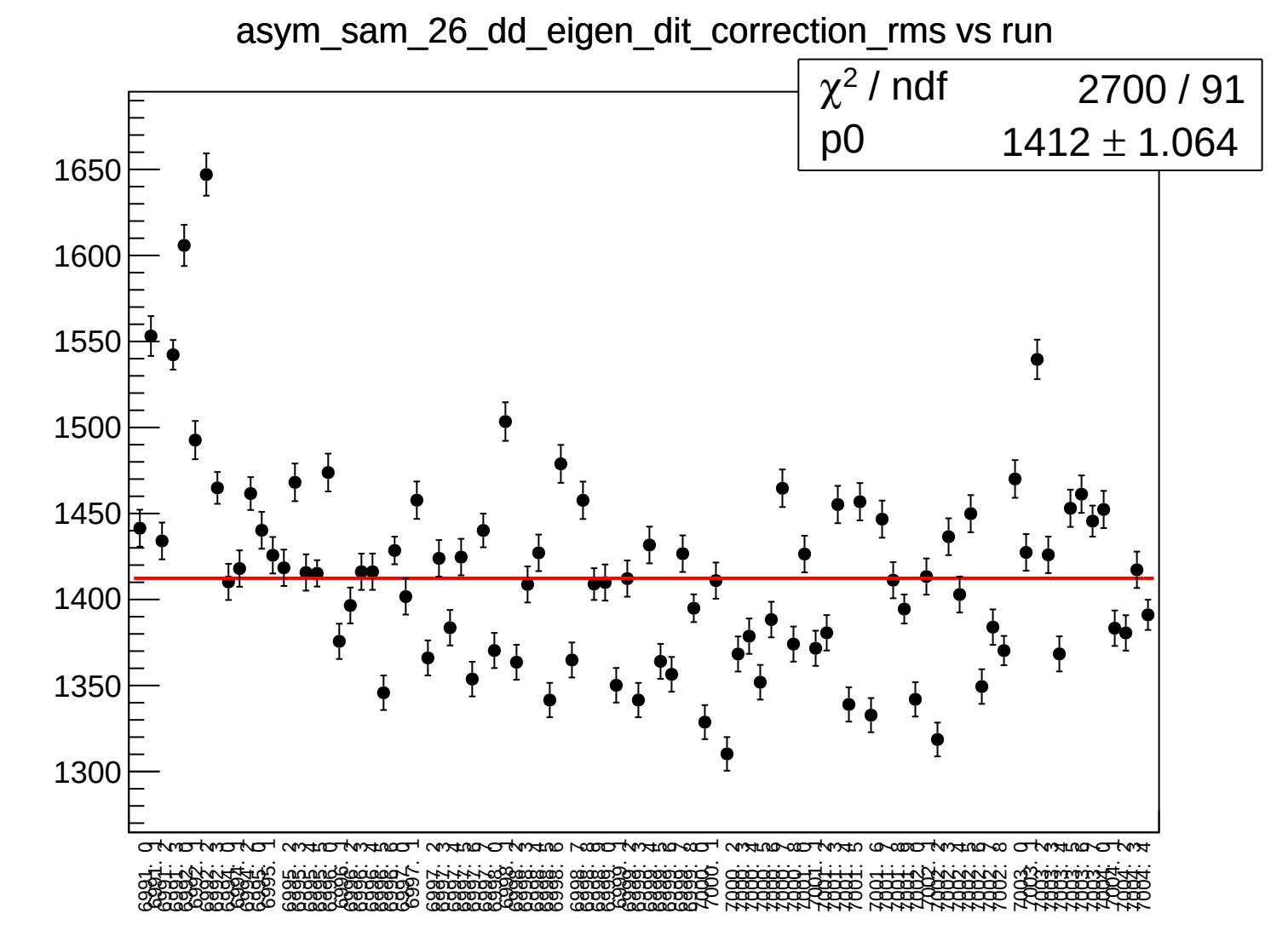

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 102.2 / 91
p0 110.7 ± 234.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 92
Mean −3480
Std Dev 0
2
1
0
−1
−2
−3

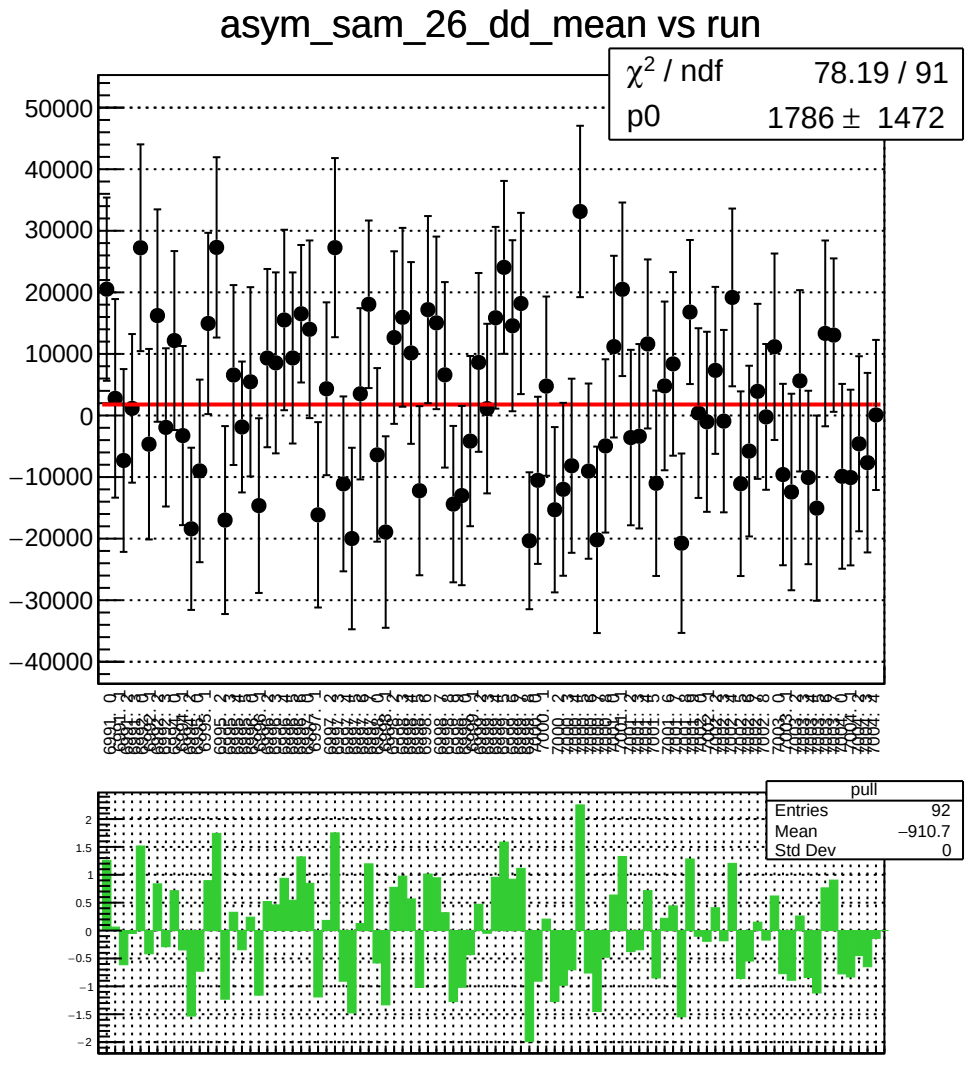

pull1D
Entries 92
Mean 0.0002562
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

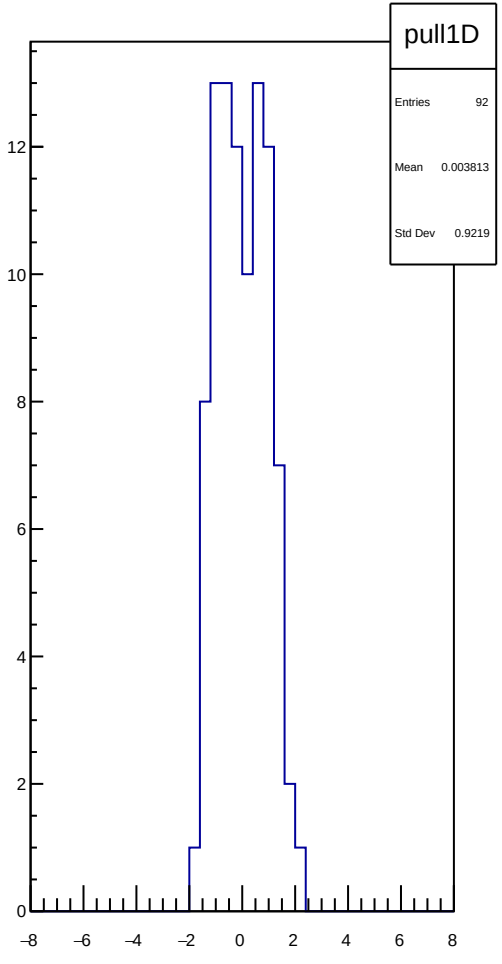

eigen_dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 549.3 / 91
p0 220.3 ± 0.1658
230
225
220
215
210

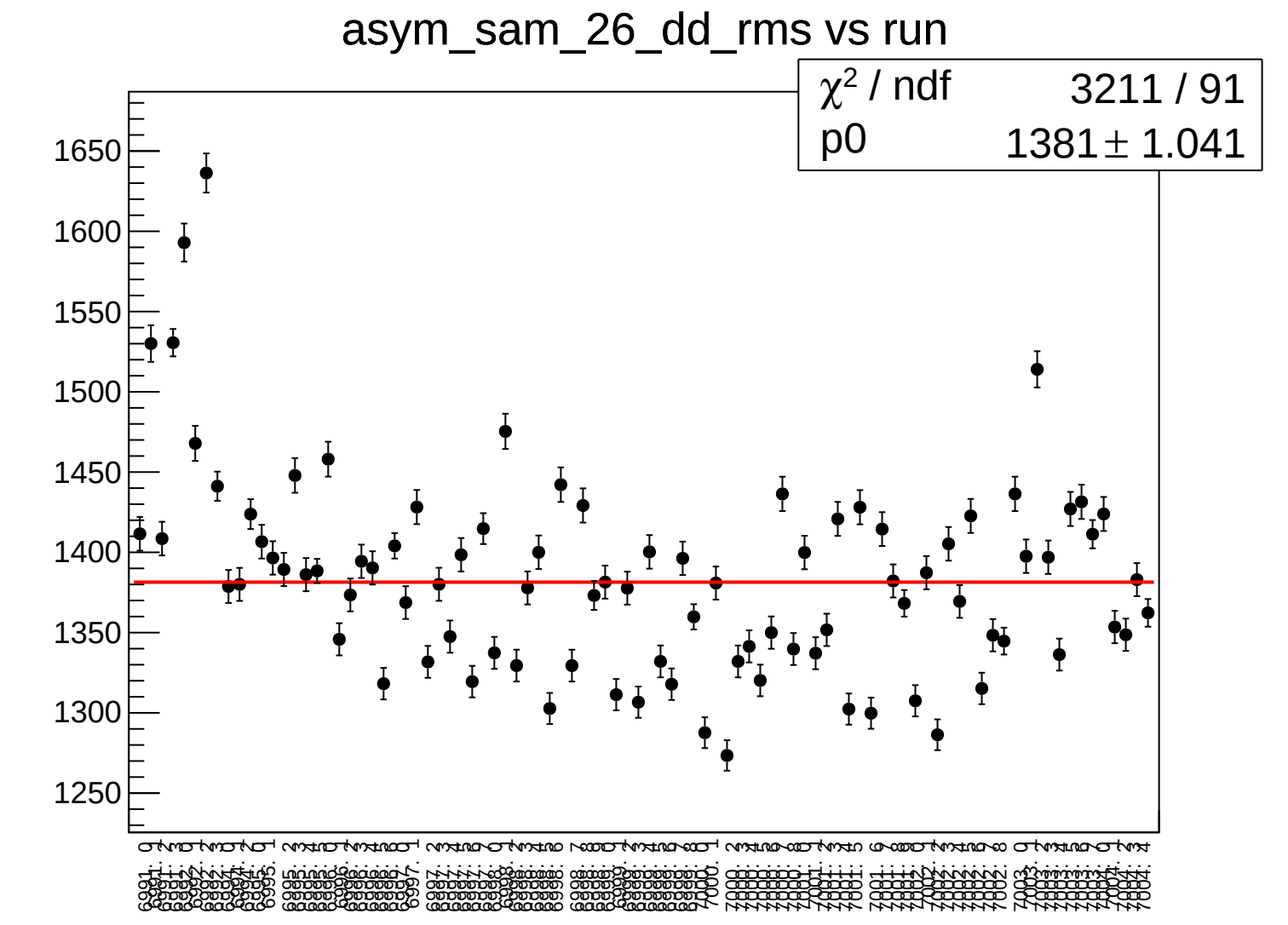

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.43 / 91
p0 −1695 ± 1504
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −1098
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

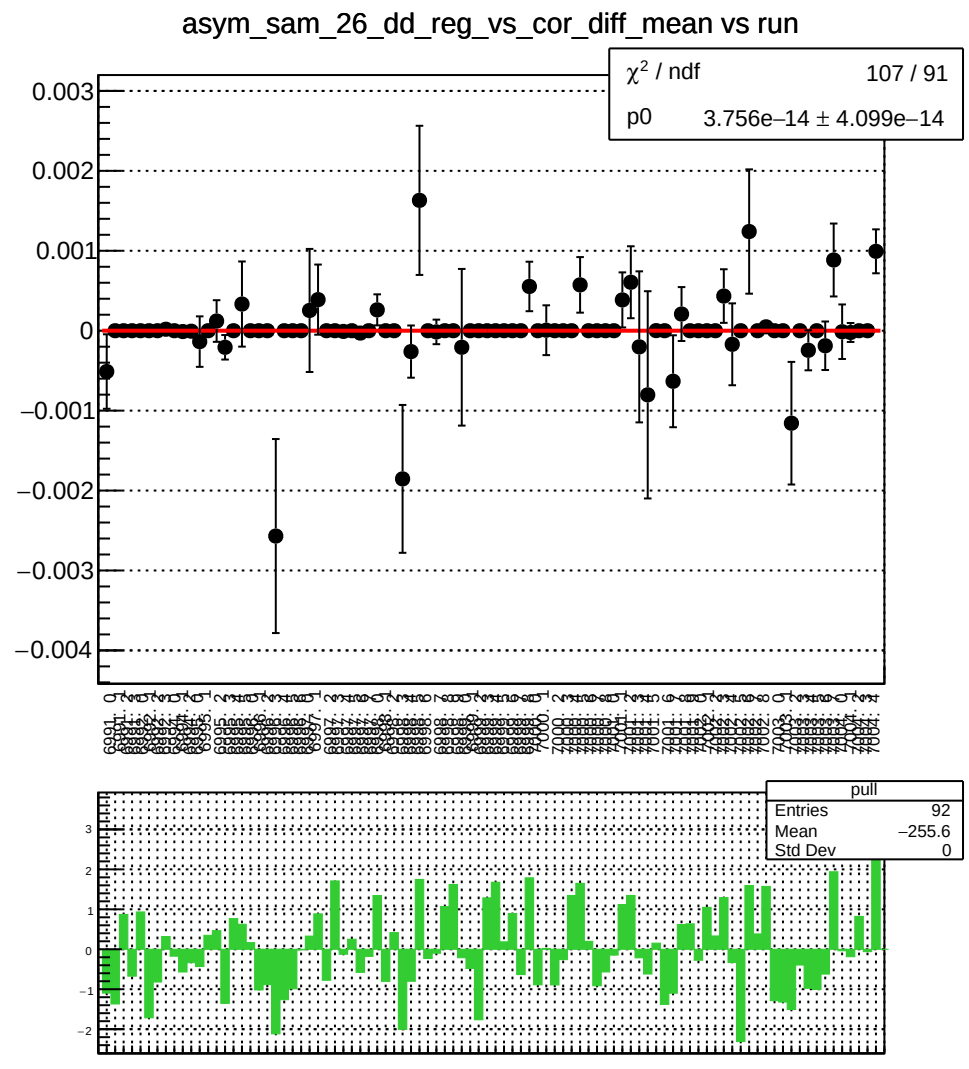

pull1D
Entries 92
Mean −0.002986
Std Dev 0.9233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

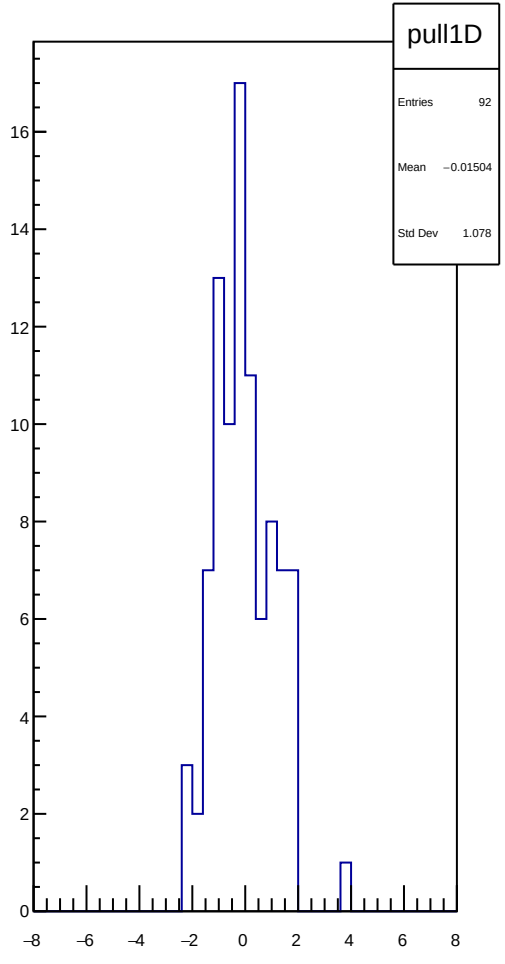

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2700 / 91
p0 1412 ± 1.064
1650
1600
1550
1500
1450
1400
1350
1300

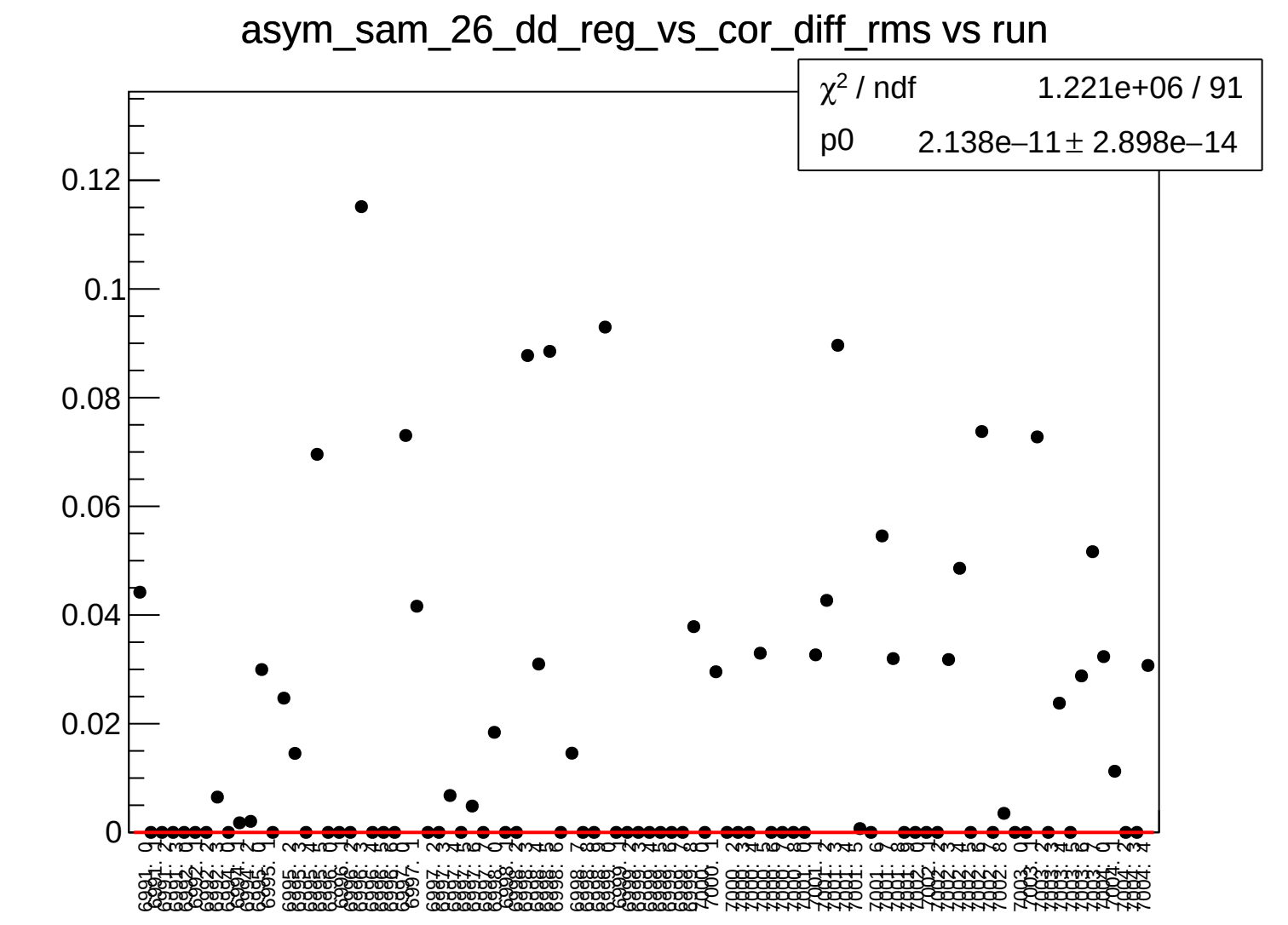

asym_sam_26_dd_mean vs run
χ² / ndf 78.19 / 91
p0 1786 ± 1472
pull
Entries 92
Mean −910.7
Std Dev 0

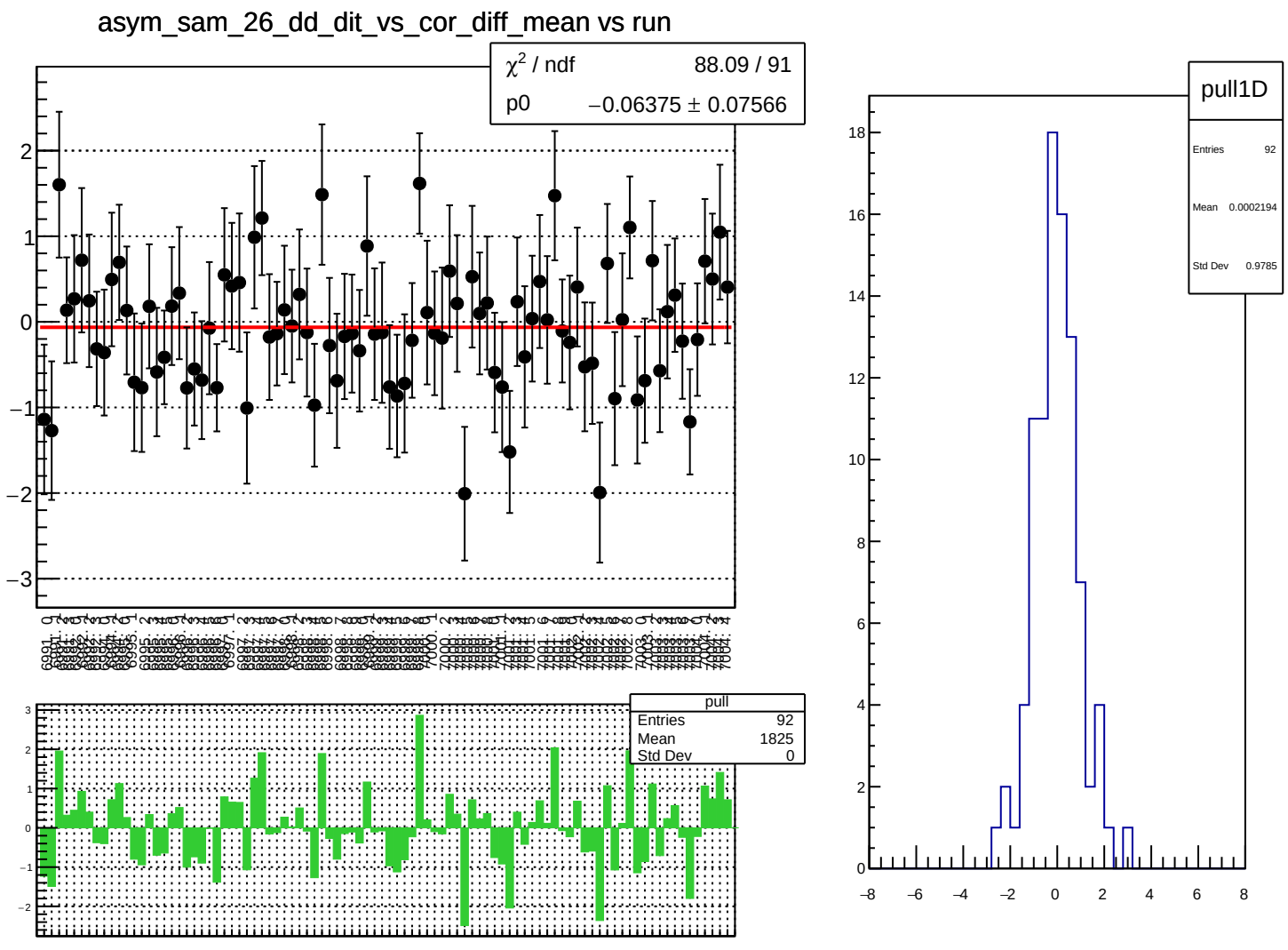

pull1D
Entries 92
Mean 0.003813
Std Dev 0.9219

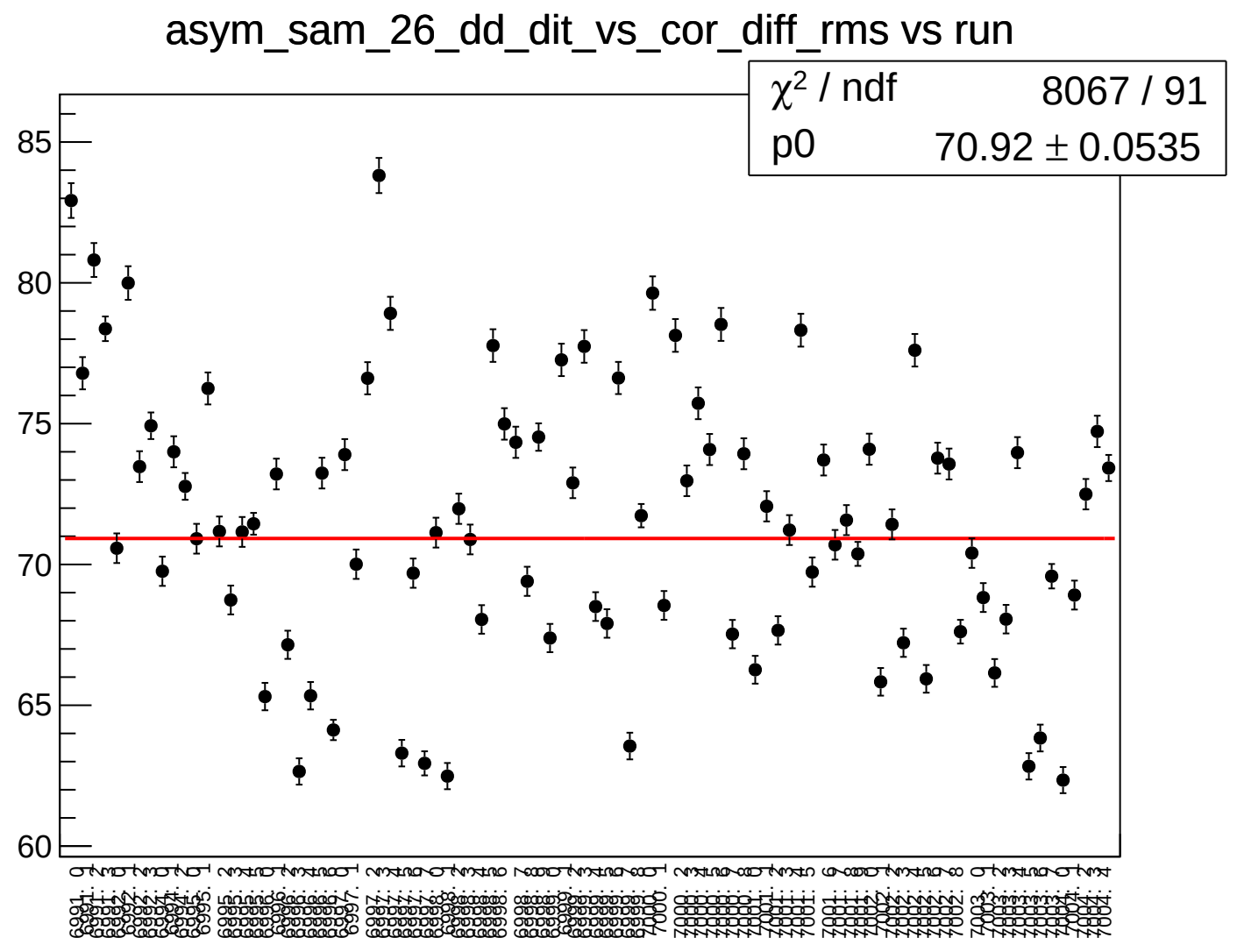

asym_sam_26_dd_rms vs run
χ² / ndf 3211 / 91
p0 1381 ± 1.041
1650
1600
1550
1500
1450
1400
1350
1300
1250

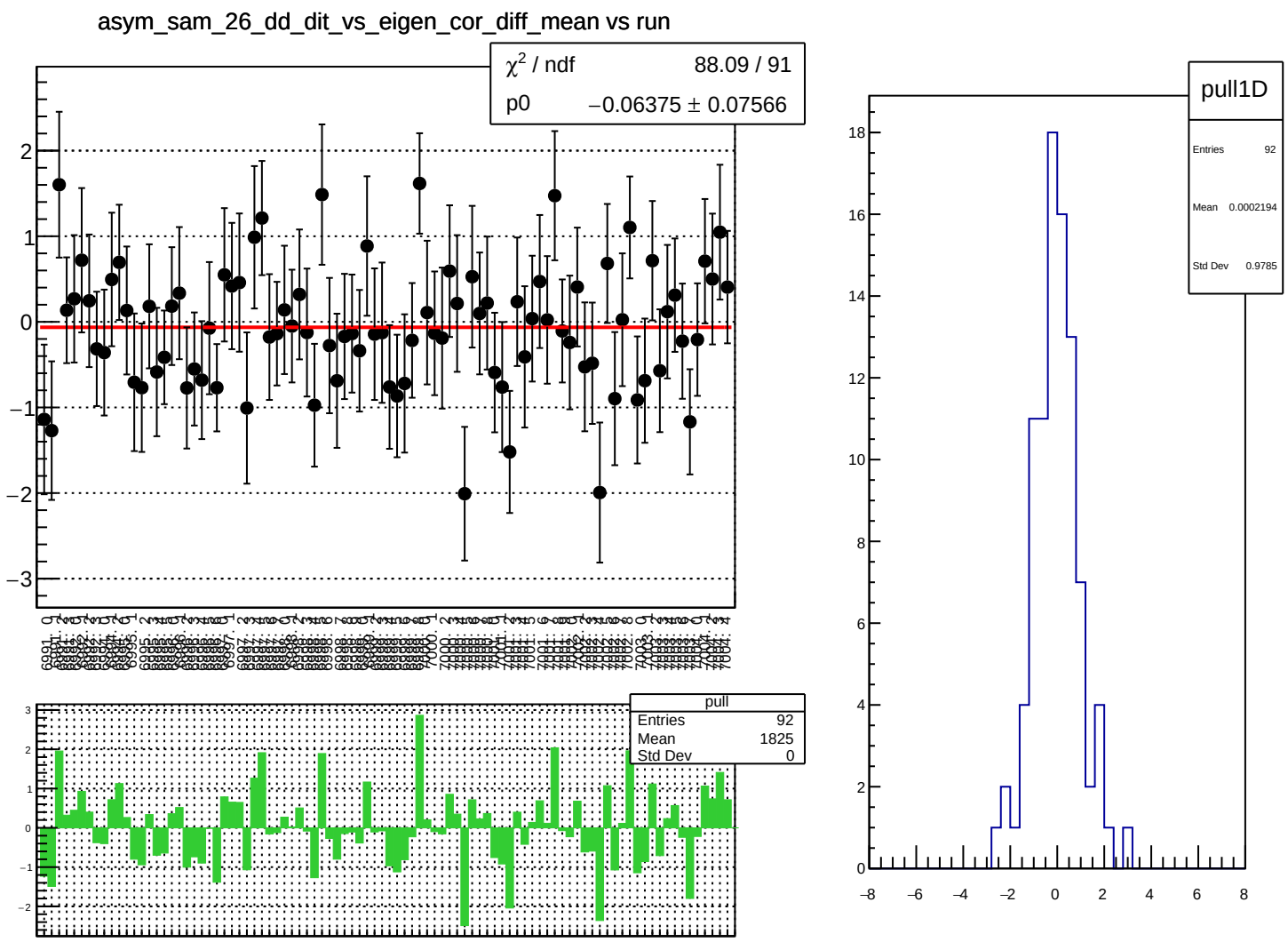

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107 / 91
p0 3.756e−14 ± 4.099e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 92
Mean −255.6
Std Dev 0
3
2
1
0
−1
−2

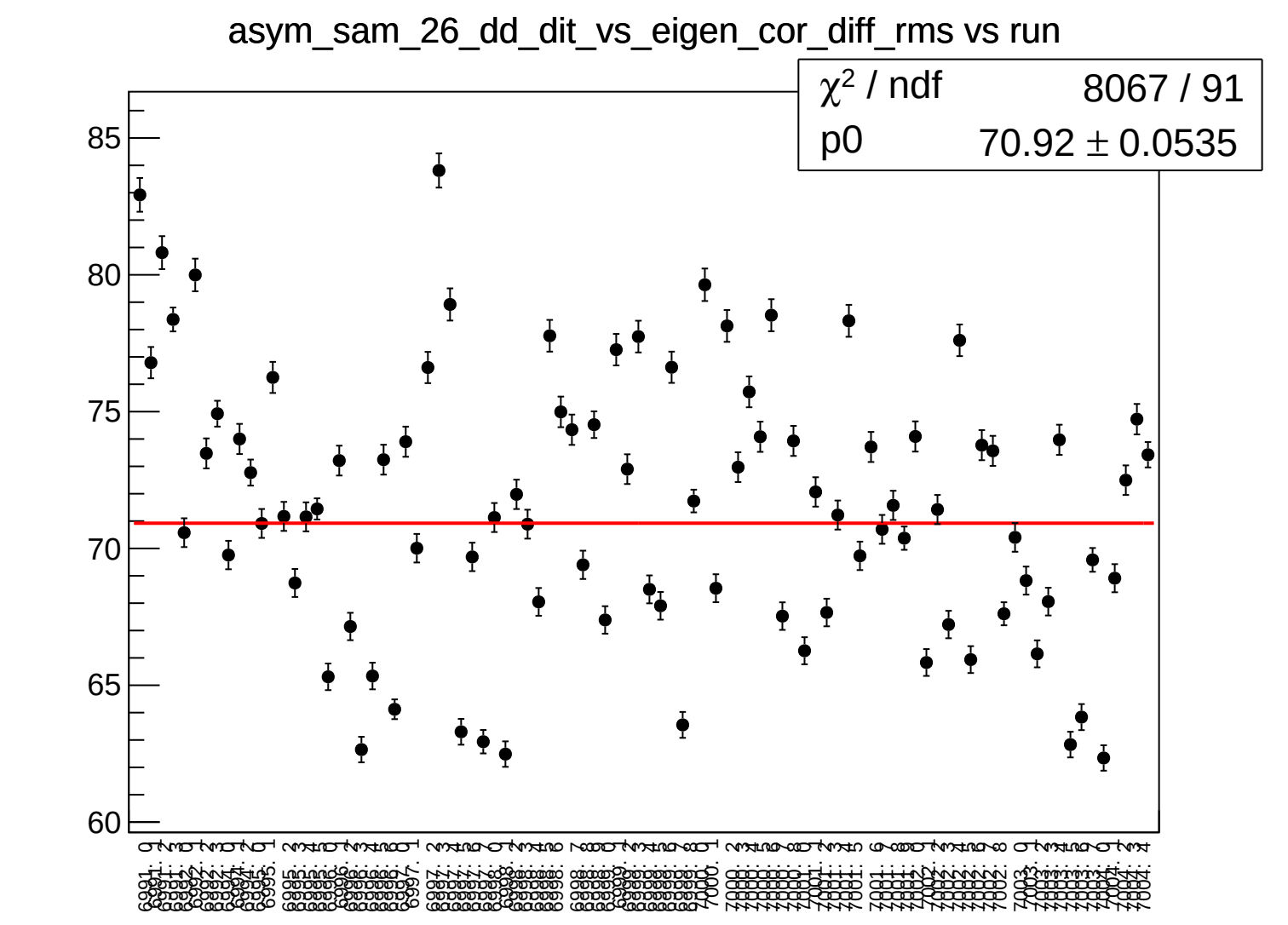

pull1D
Entries 92
Mean −0.01504
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

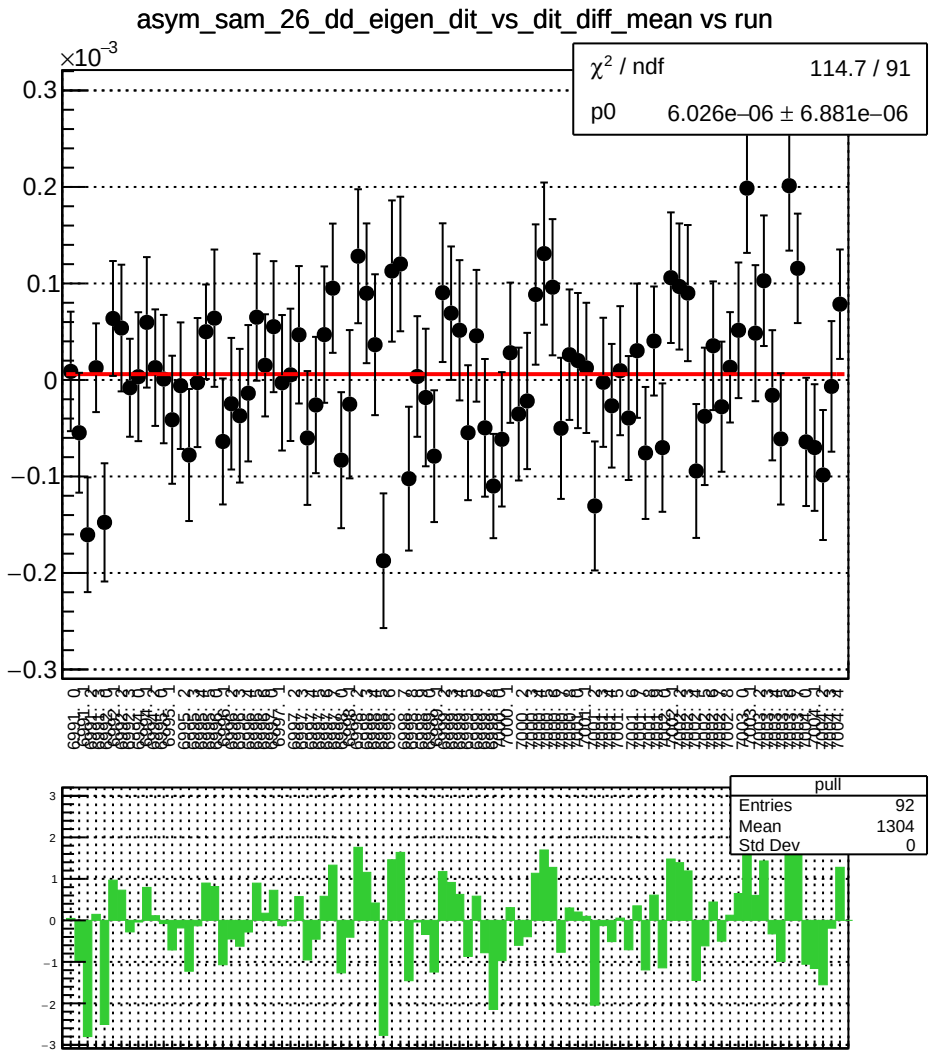

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.221e+06 / 91
p0 2.138e−11 ± 2.898e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

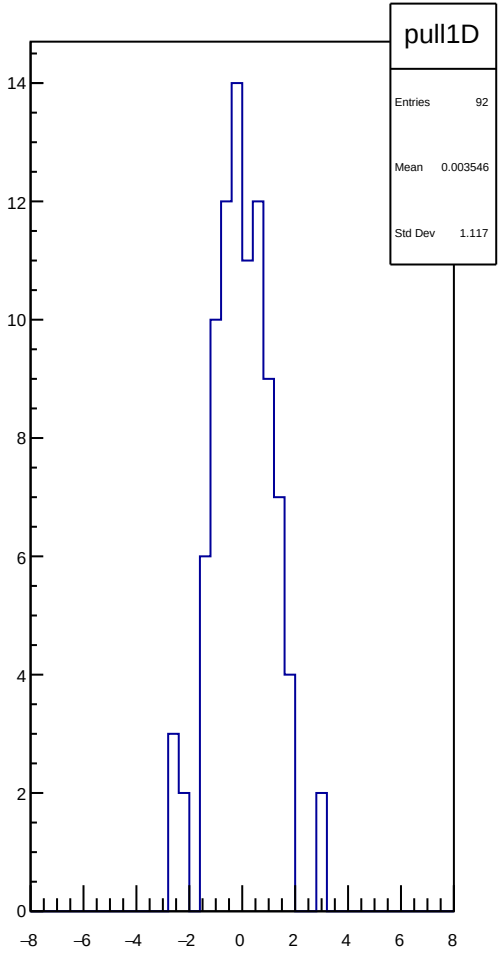

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.09 / 91
p0 −0.06375 ± 0.07566
pull
Entries 92
Mean 1825
Std Dev 0
pull1D
Entries 92
Mean 0.0002194
Std Dev 0.9785

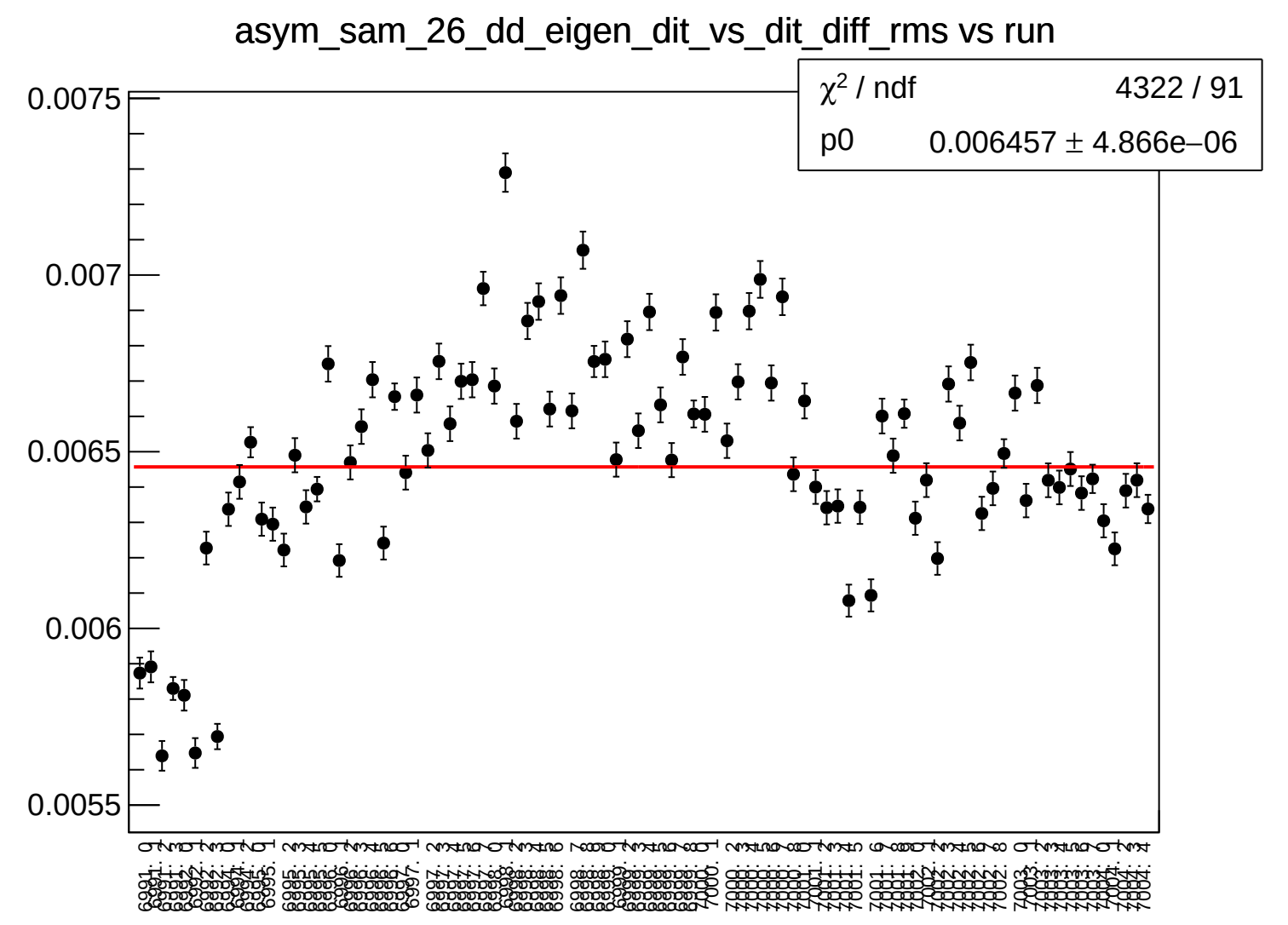

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8067 / 91
p0 70.92 ± 0.0535
85
80
75
70
65
60

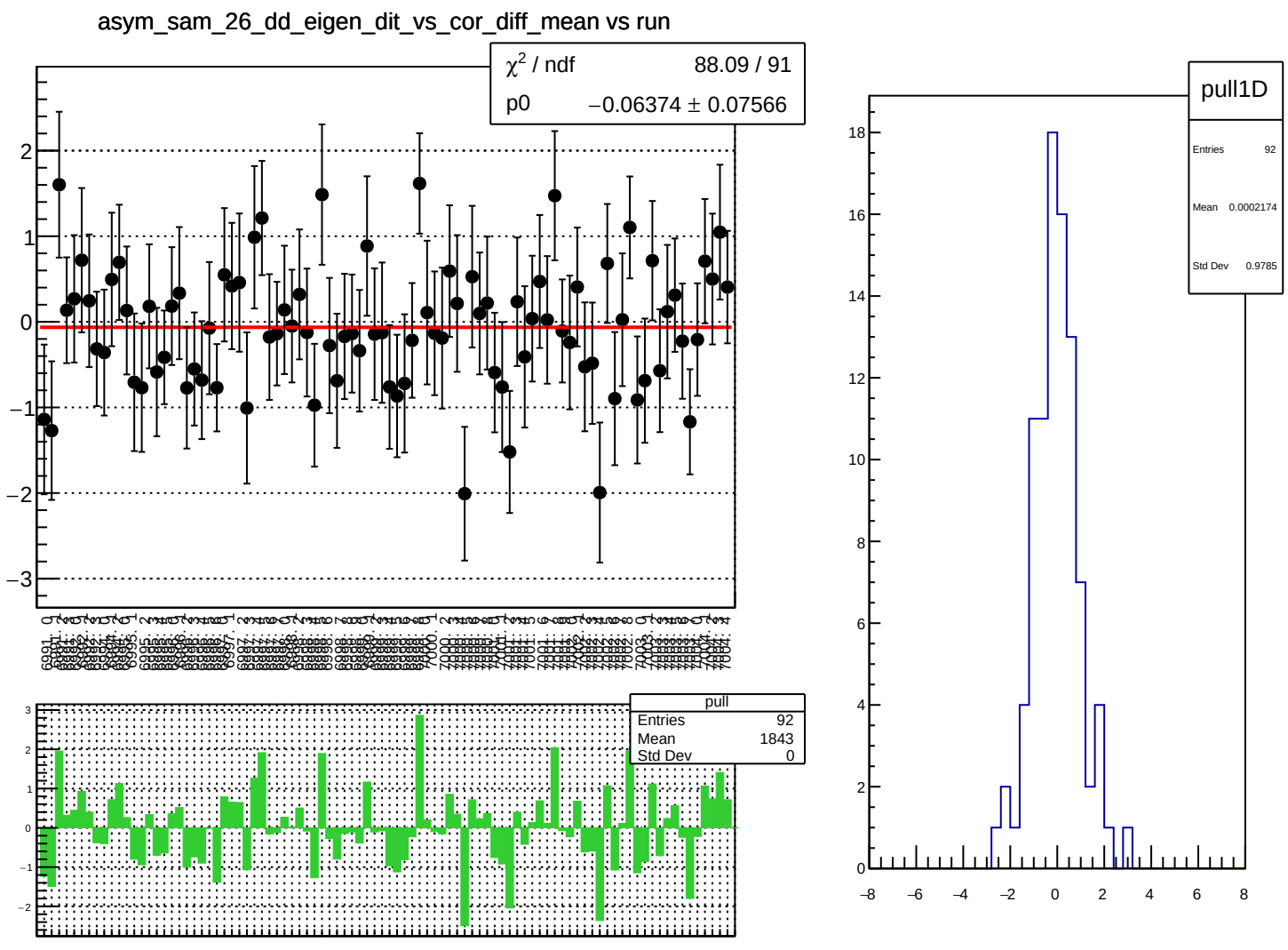

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.09 / 91
p0 −0.06375 ± 0.07566
pull
Entries 92
Mean 1825
Std Dev 0
pull1D
Entries 92
Mean 0.0002194
Std Dev 0.9785

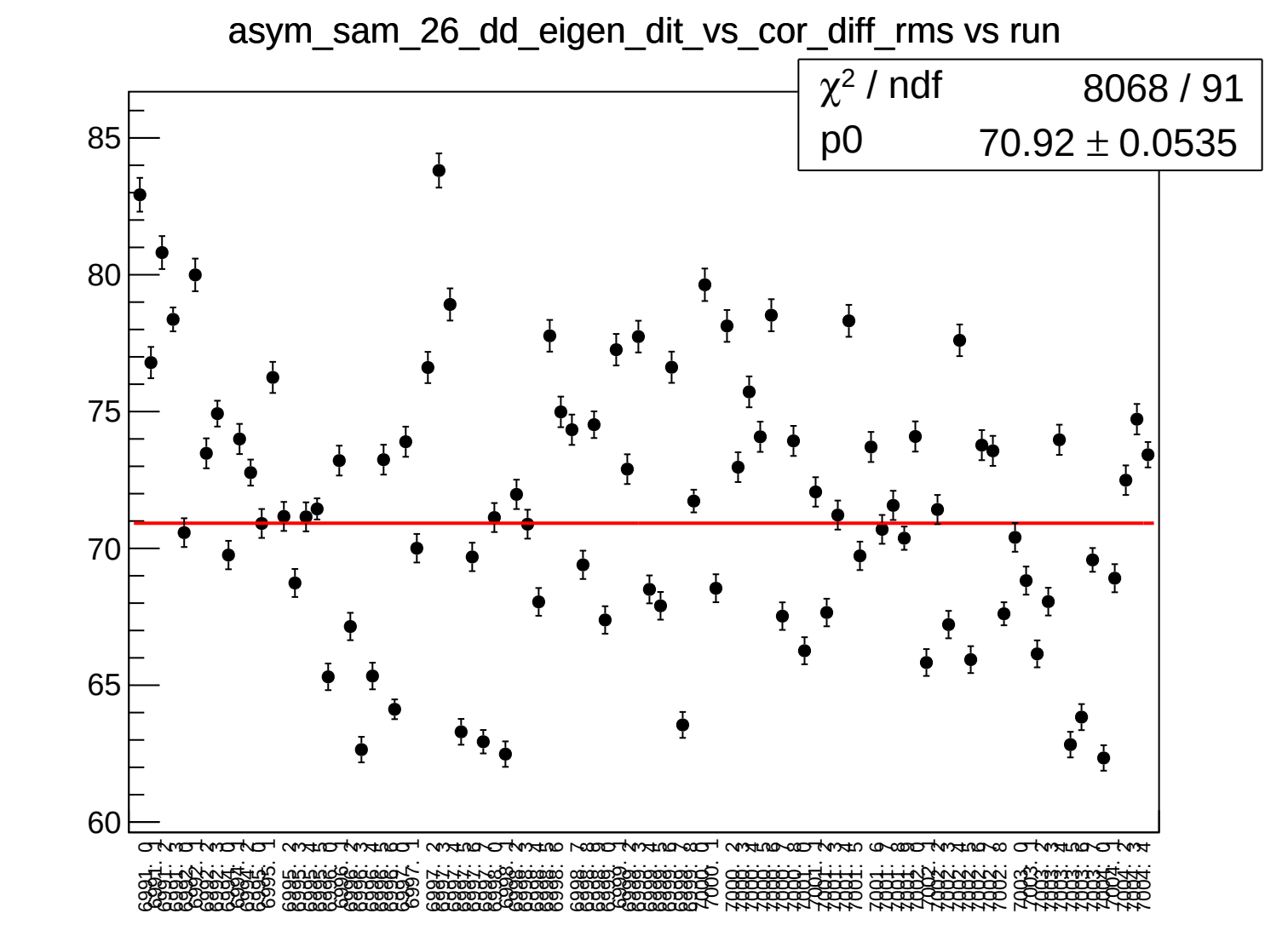

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8067 / 91
p0 70.92 ± 0.0535
85
80
75
70
65
60

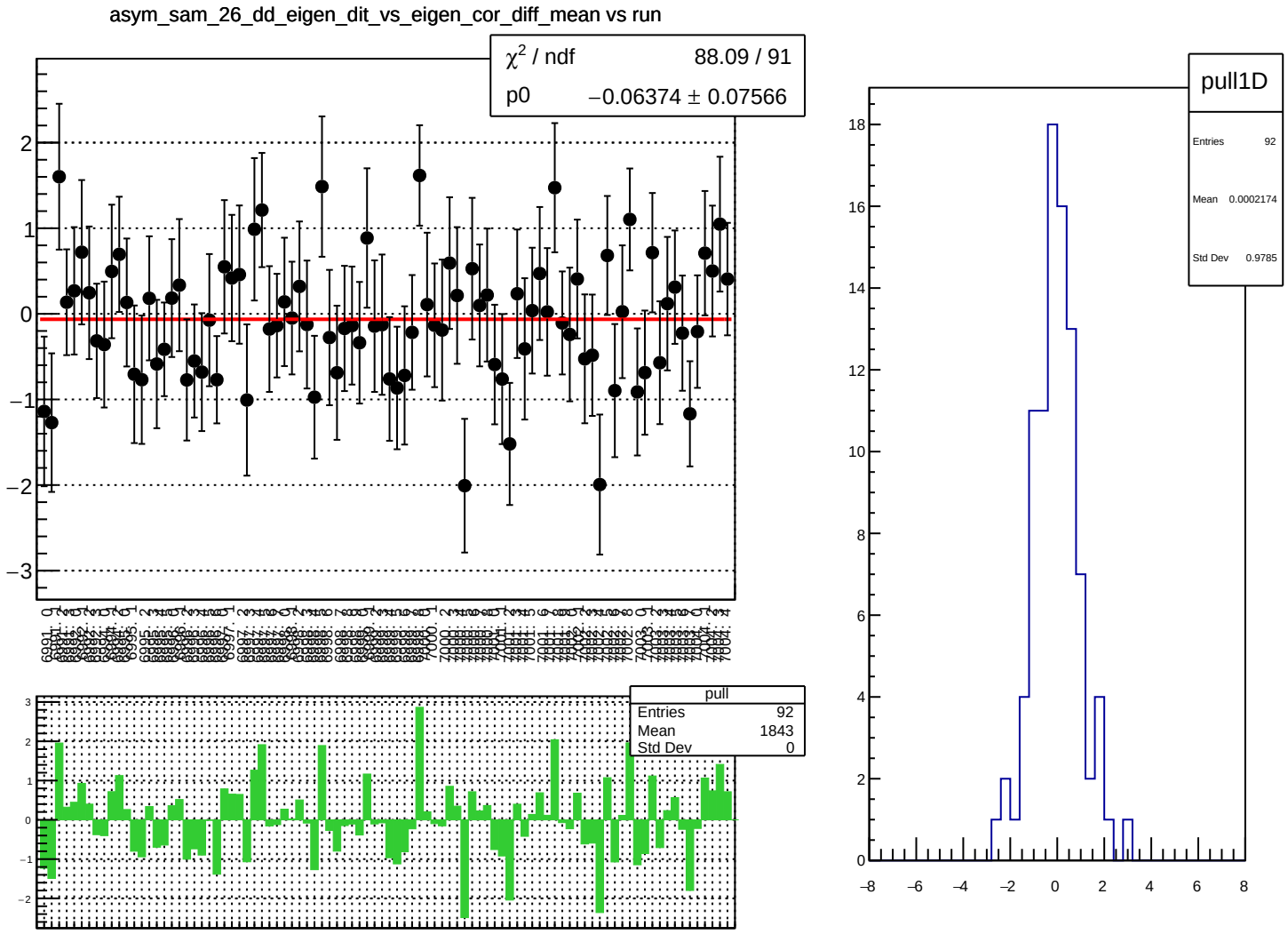

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 114.7 / 91
p0 6.026e−06 ± 6.881e−06
pull
Entries 92
Mean 1304
Std Dev 0

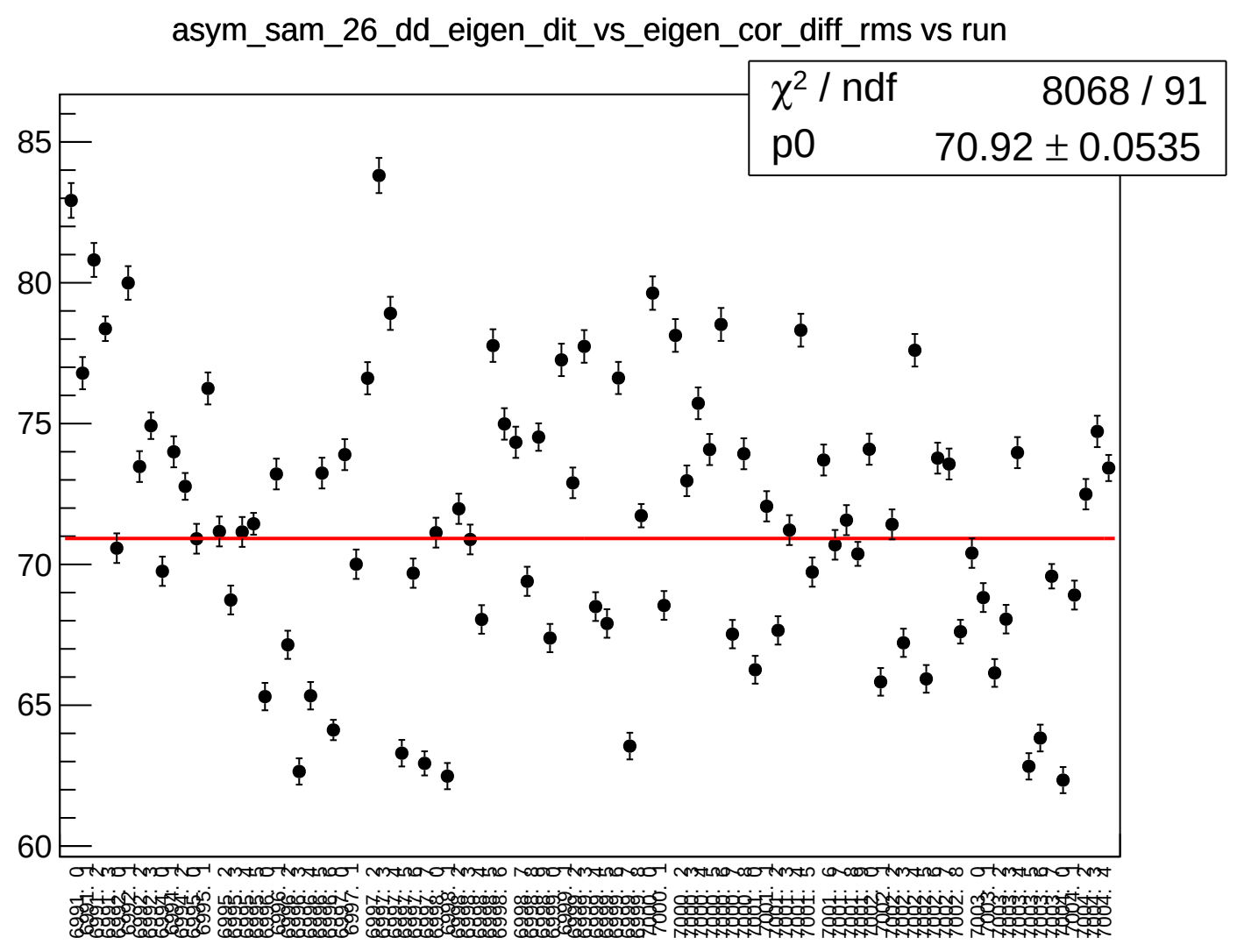

pull1D
Entries 92
Mean 0.003546
Std Dev 1.117

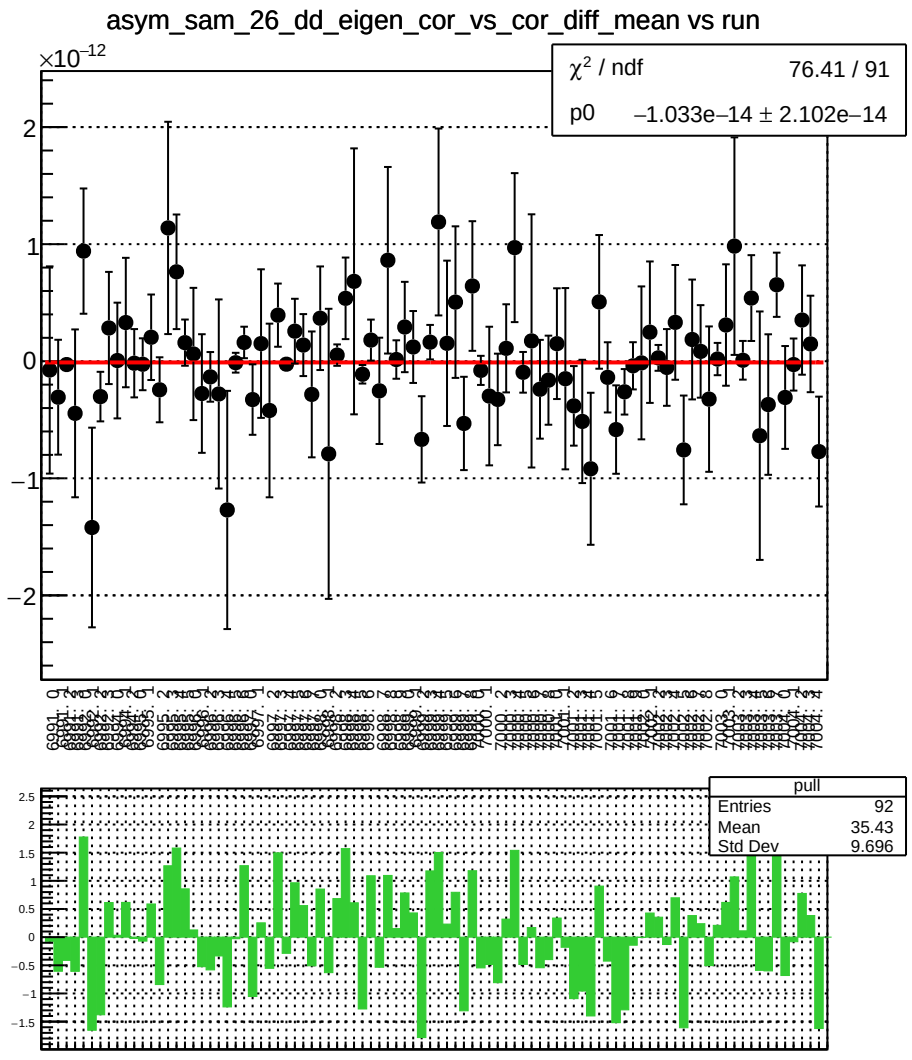

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4322 / 91
p0 0.006457 ± 4.866e−06
0.0075
0.007
0.0065
0.006
0.0055

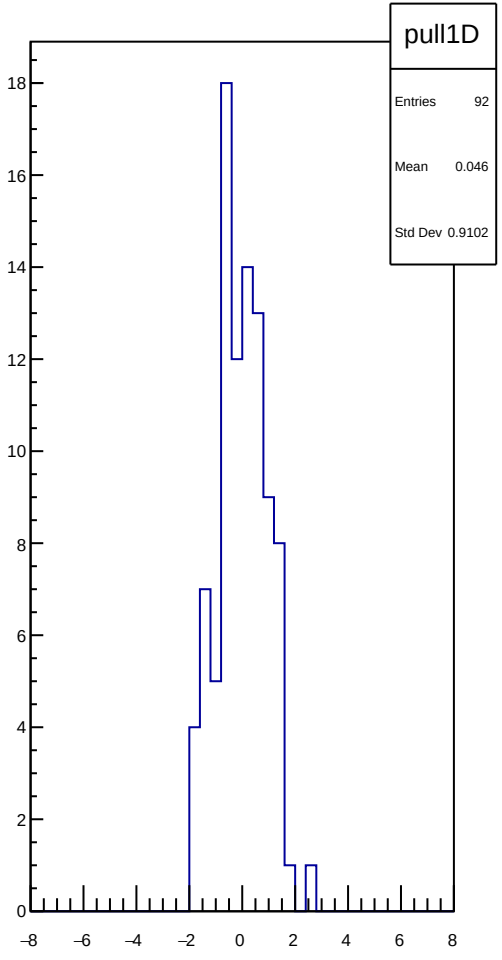

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.09 / 91
p0 −0.06374 ± 0.07566
pull
Entries 92
Mean 1843
Std Dev 0
pull1D
Entries 92
Mean 0.0002174
Std Dev 0.9785

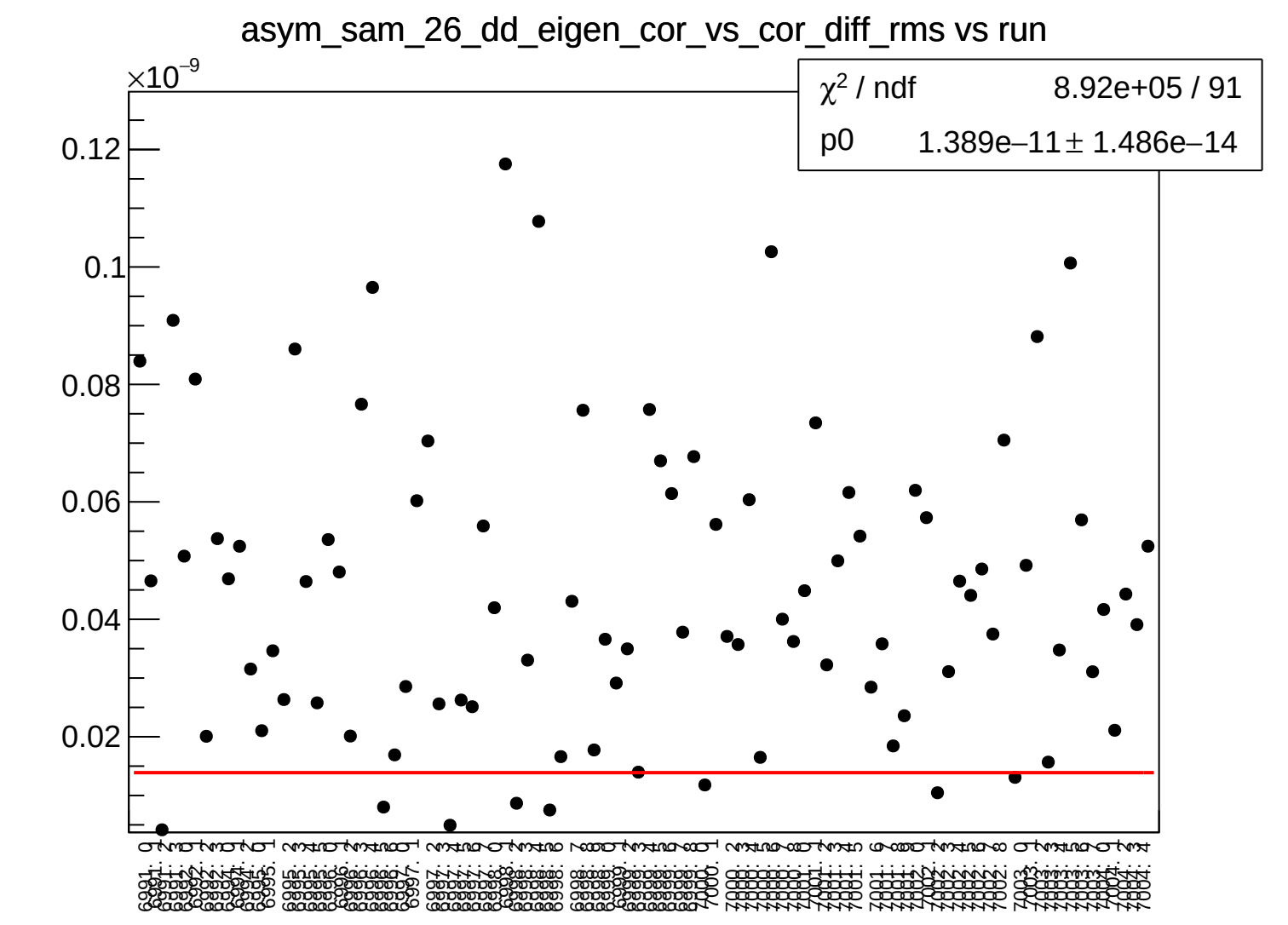

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8068 / 91
p0 70.92 ± 0.0535
85
80
75
70
65
60

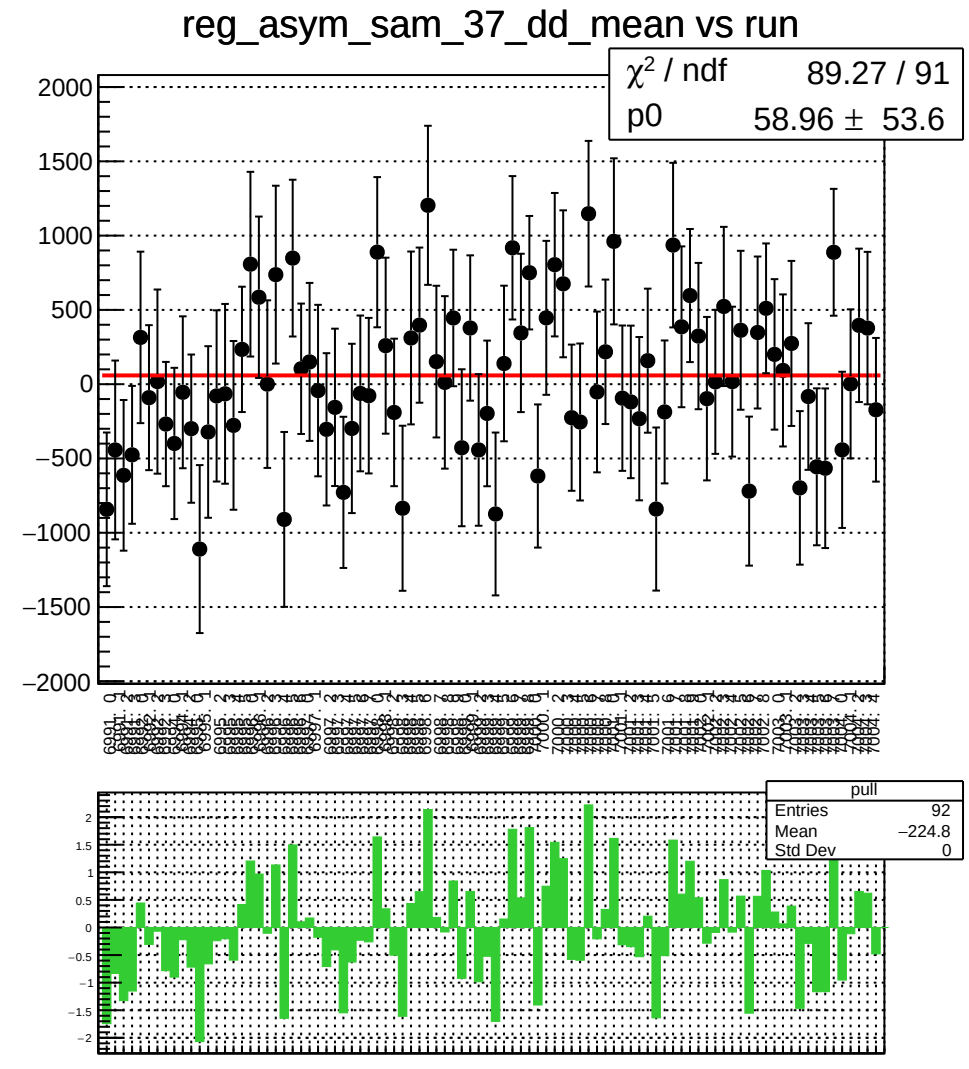

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.09 / 91
p0 −0.06374 ± 0.07566
pull
Entries 92
Mean 1843
Std Dev 0
pull1D
Entries 92
Mean 0.0002174
Std Dev 0.9785

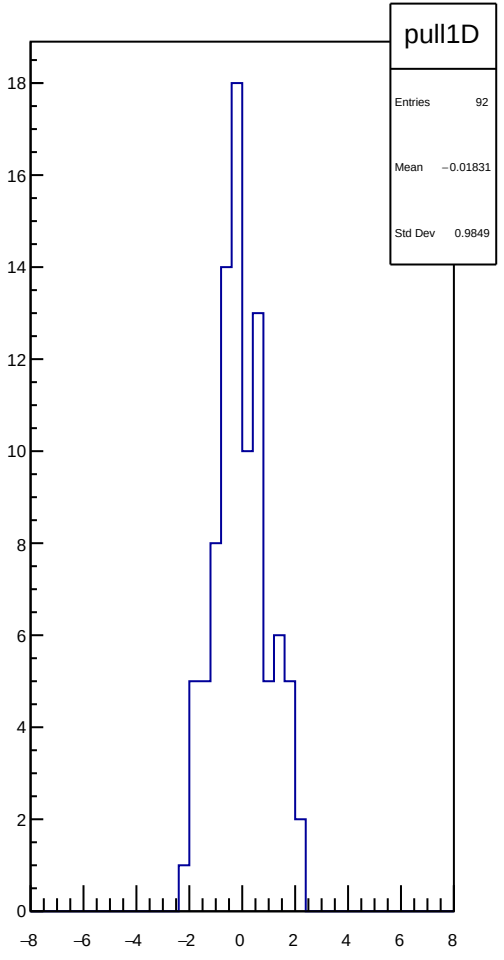

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8068 / 91
p0 70.92 ± 0.0535
85
80
75
70
65
60

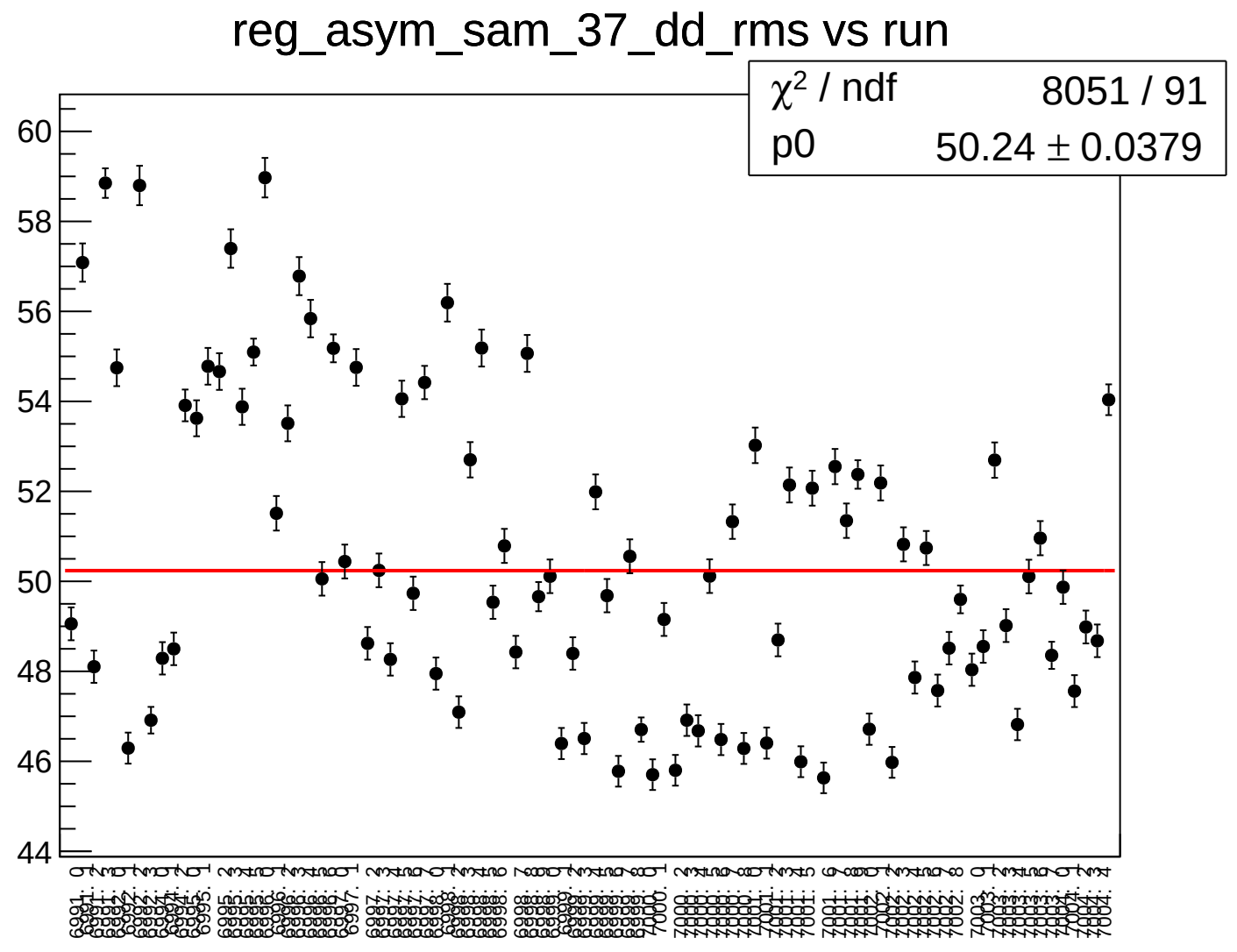

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.41 / 91
p0 −1.033e−14 ± 2.102e−14
pull
Entries 92
Mean 35.43
Std Dev 9.696

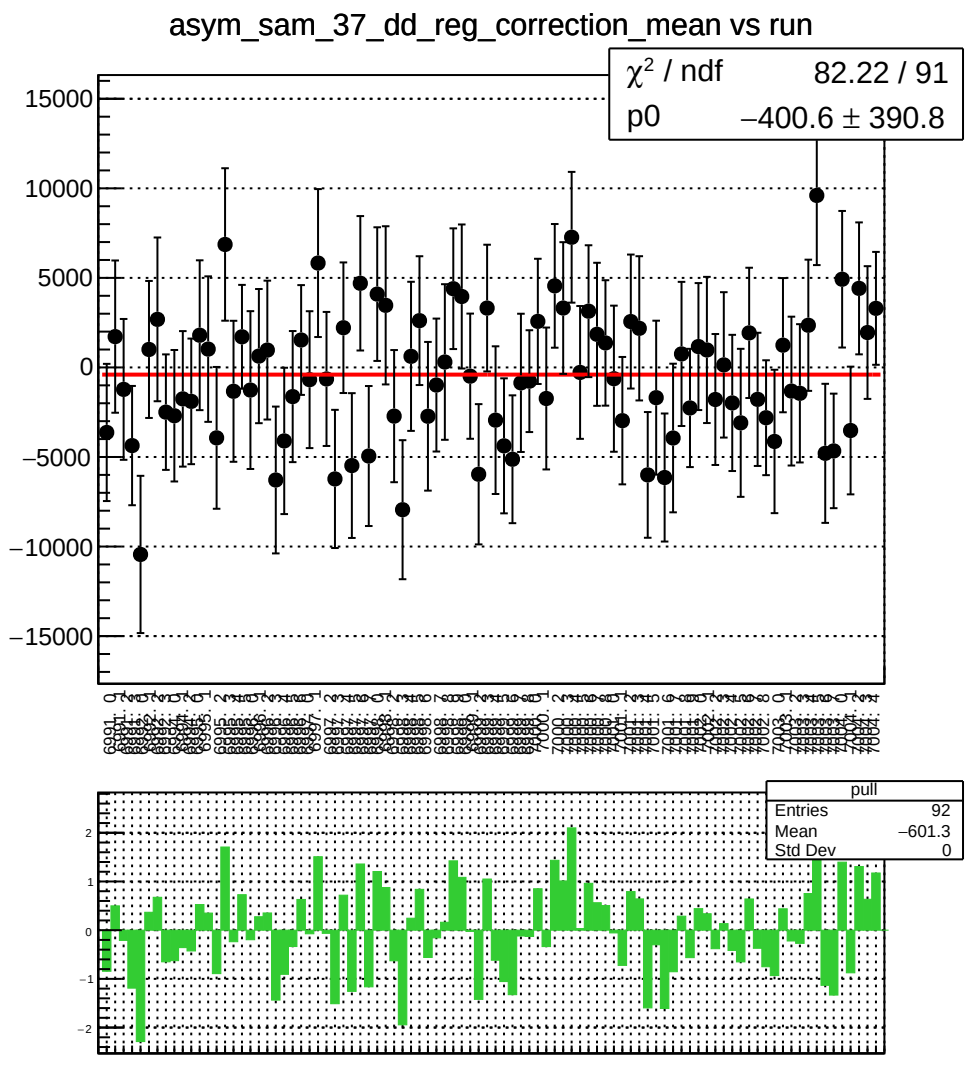

pull1D
Entries 92
Mean 0.046
Std Dev 0.9102

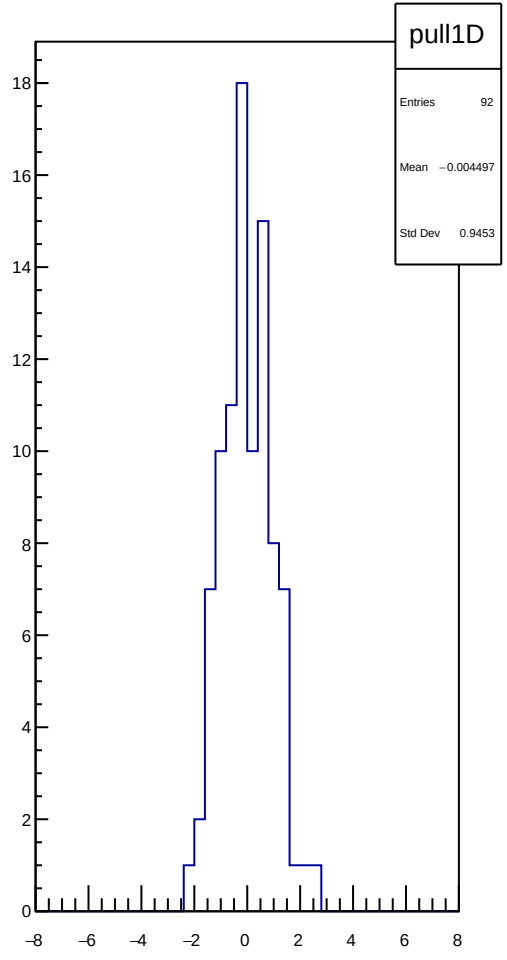

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.92e+05 / 91
p0 1.389e−11 ± 1.486e−14
0.12
0.1
0.08
0.06
0.04
0.02

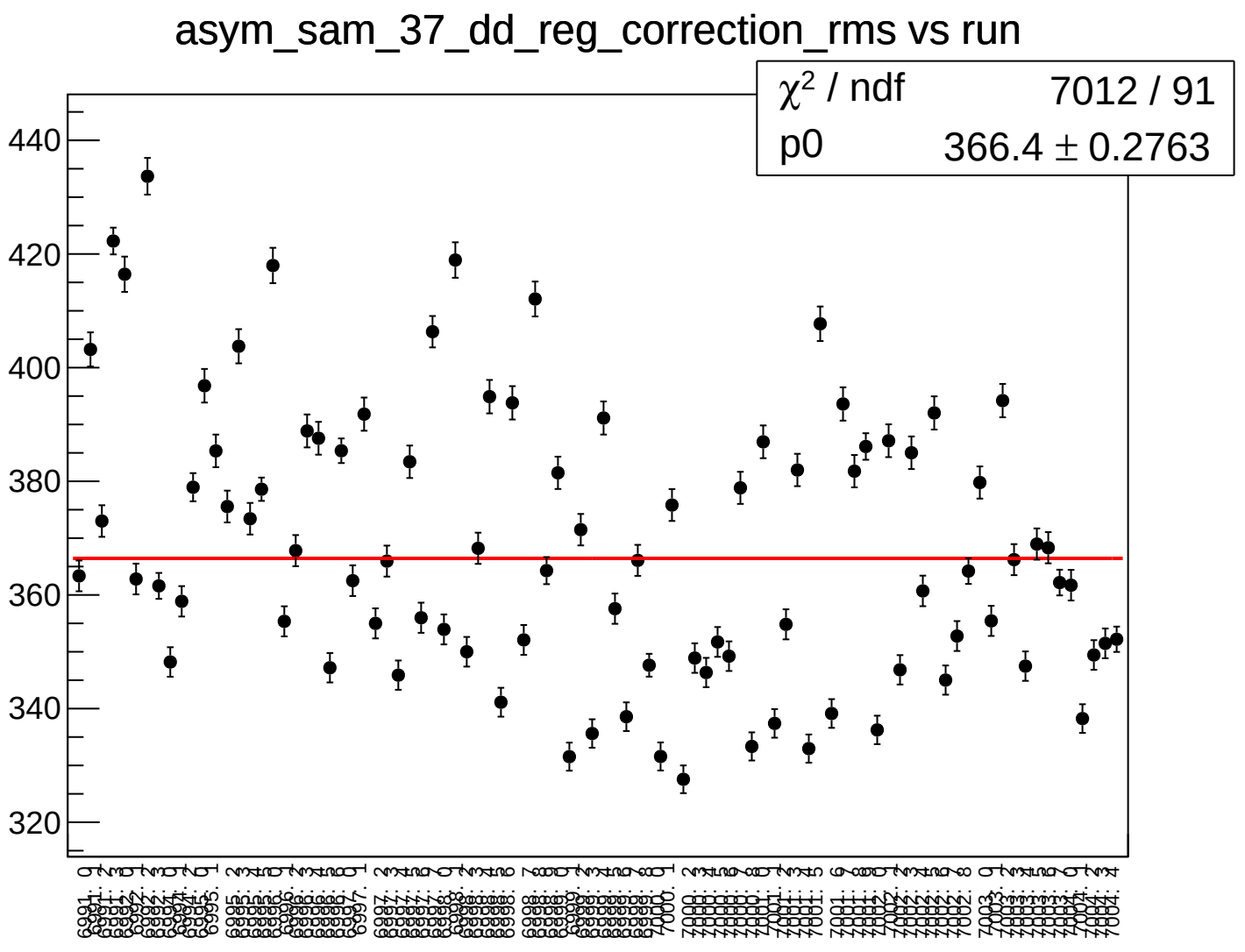

reg_asym_sam_37_dd_mean vs run
χ² / ndf 89.27 / 91
p0 58.96 ± 53.6
pull
Entries 92
Mean −224.8
Std Dev 0

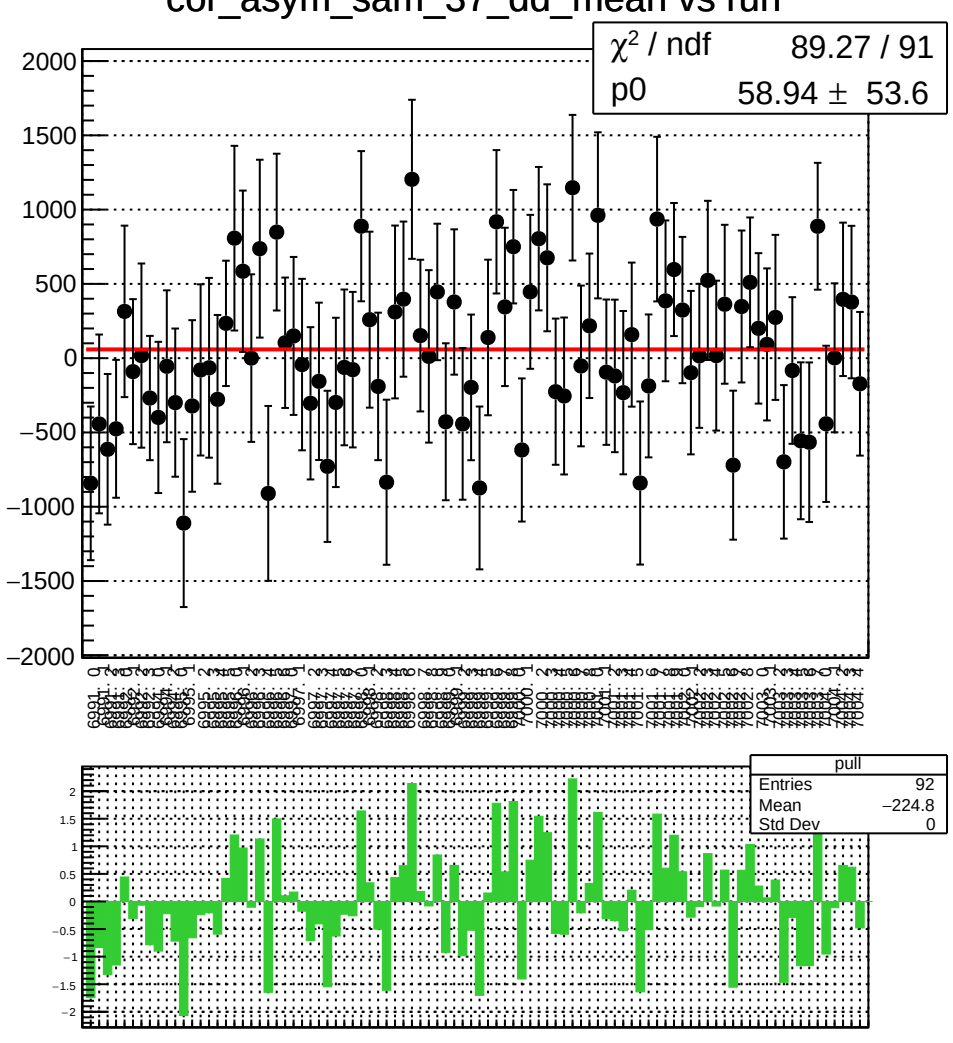

pull1D
Entries 92
Mean −0.01831
Std Dev 0.9849

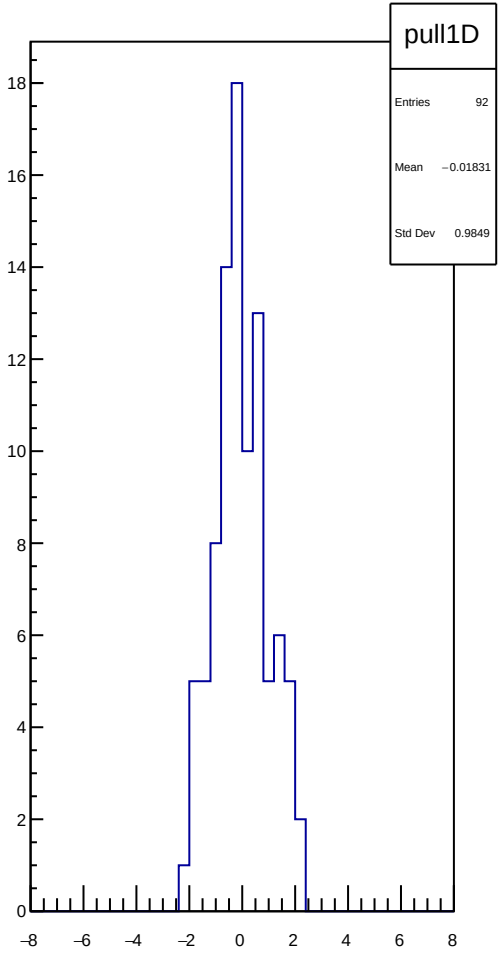

reg_asym_sam_37_dd_rms vs run
χ² / ndf 8051 / 91
p0 50.24 ± 0.0379
60
58
56
54
52
50
48
46
44

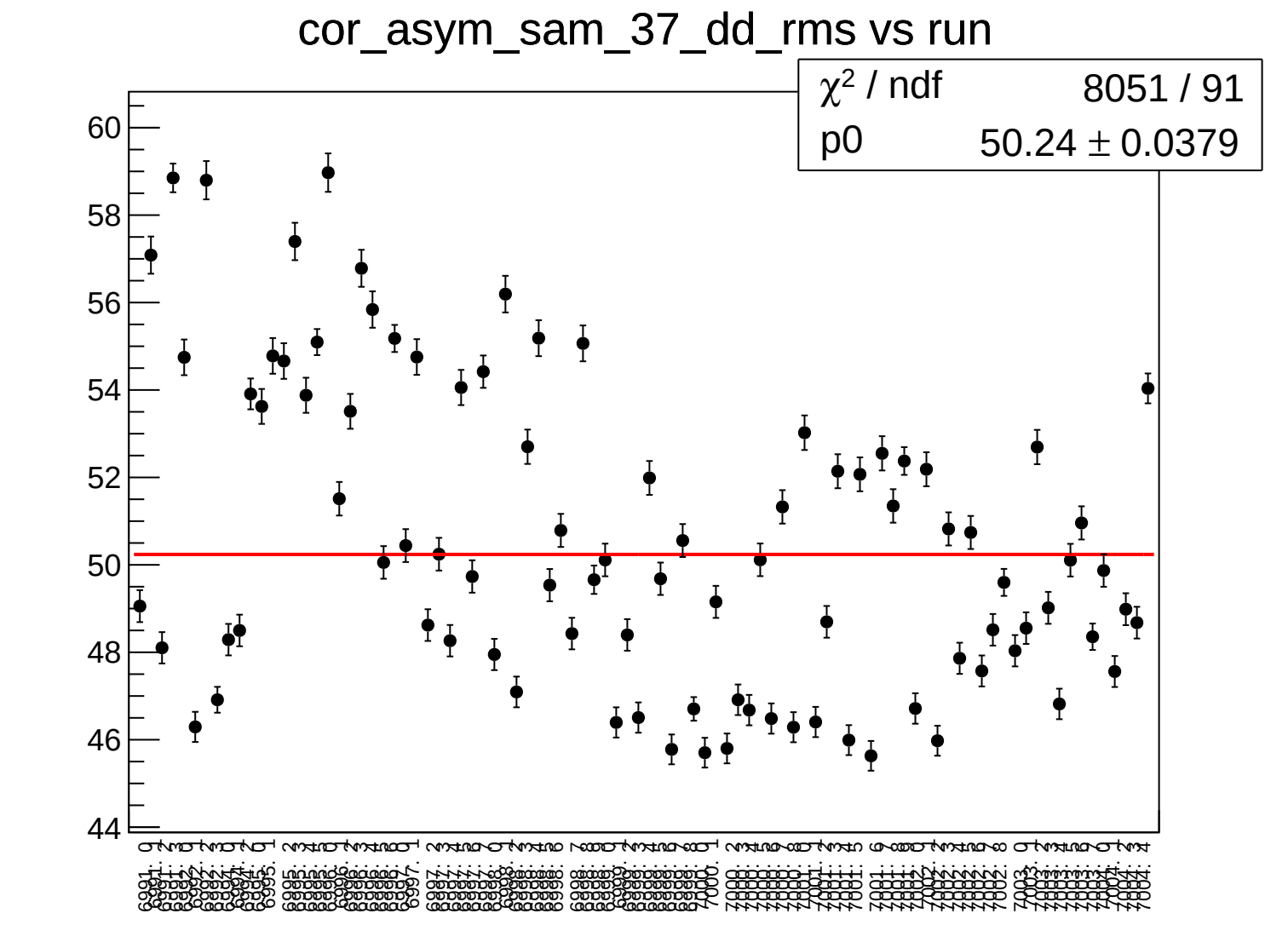

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 82.22 / 91
p0 −400.6 ± 390.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −601.3
Std Dev 0
2
1
0
−1
−2

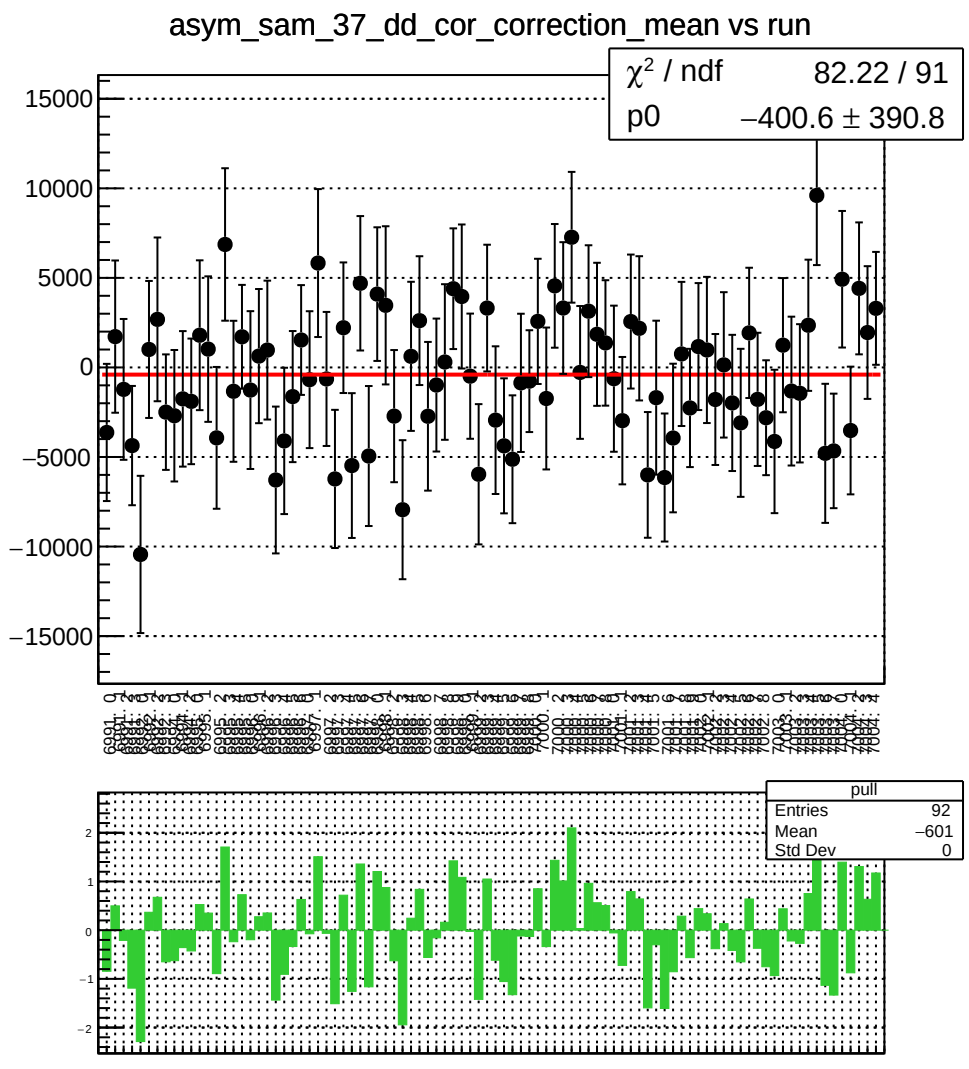

pull1D
Entries 92
Mean −0.004497
Std Dev 0.9453
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

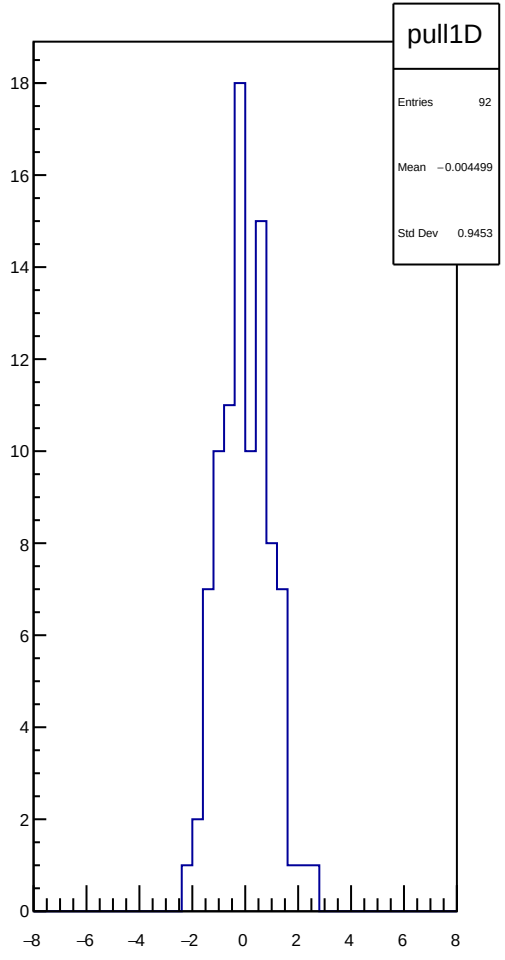

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 7012 / 91
p0 366.4 ± 0.2763
440
420
400
380
360
340
320

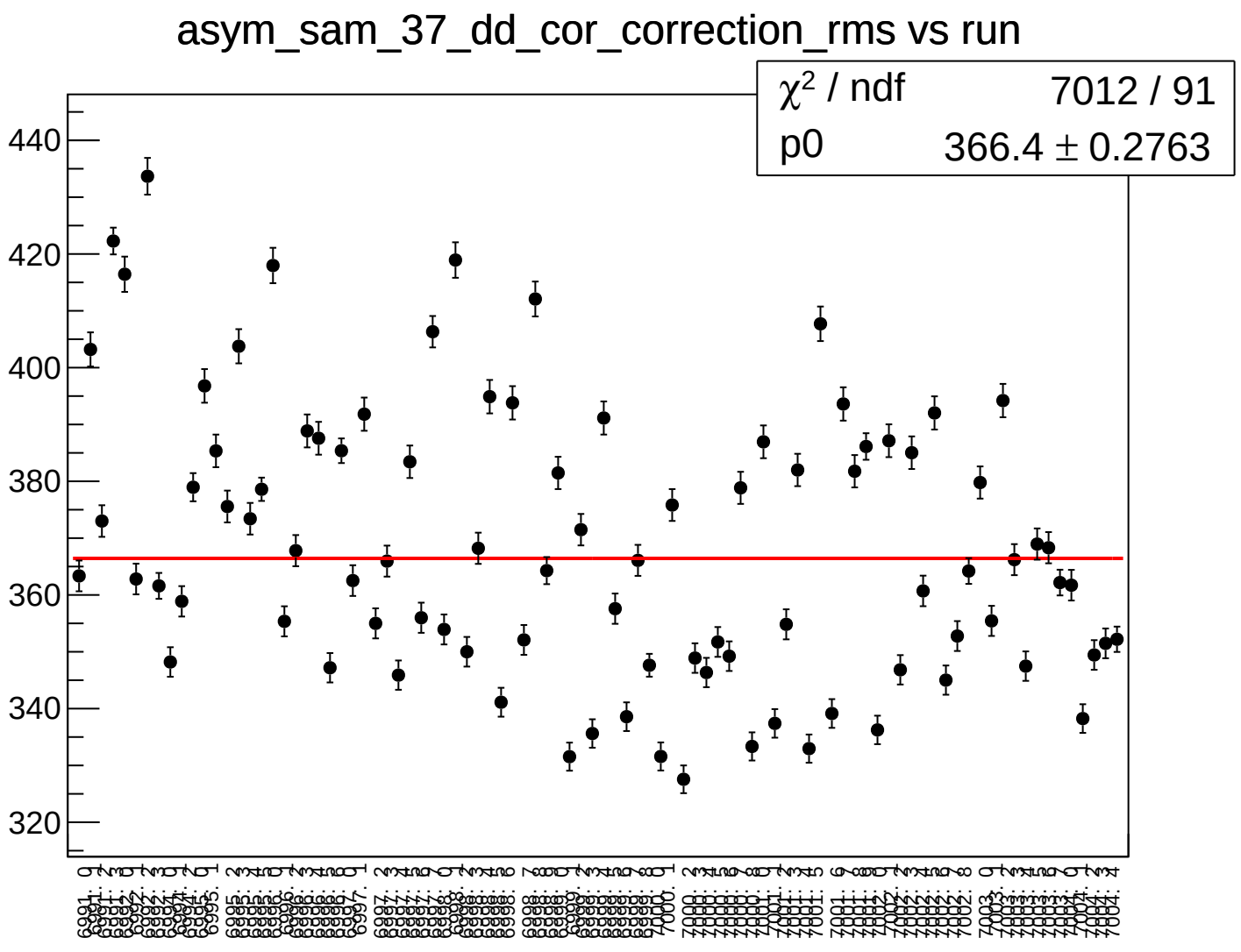

cor_asym_sam_37_dd_mean vs run
χ² / ndf 89.27 / 91
p0 58.94 ± 53.6
pull
Entries 92
Mean −224.8
Std Dev 0

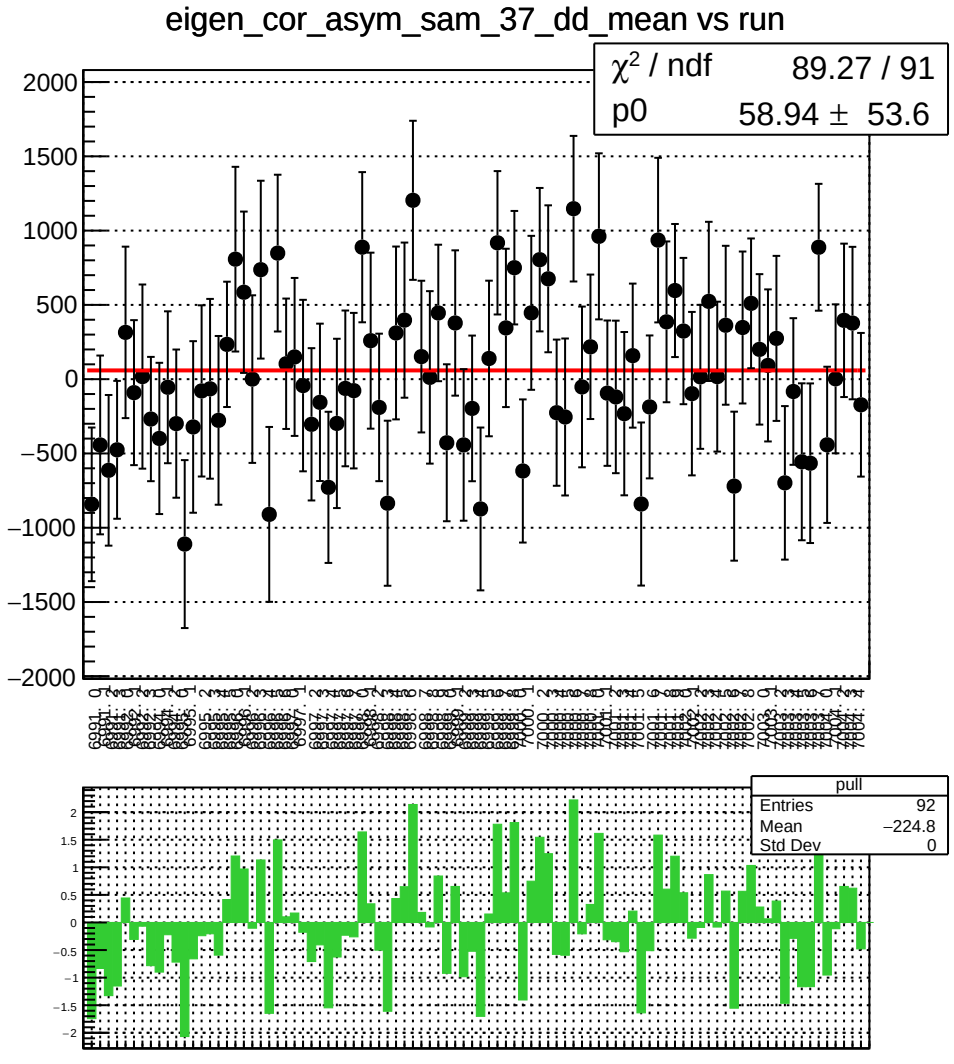

pull1D
Entries 92
Mean −0.01831
Std Dev 0.9849


cor_asym_sam_37_dd_rms vs run
χ² / ndf 8051 / 91
p0 50.24 ± 0.0379
60
58
56
54
52
50
48
46
44

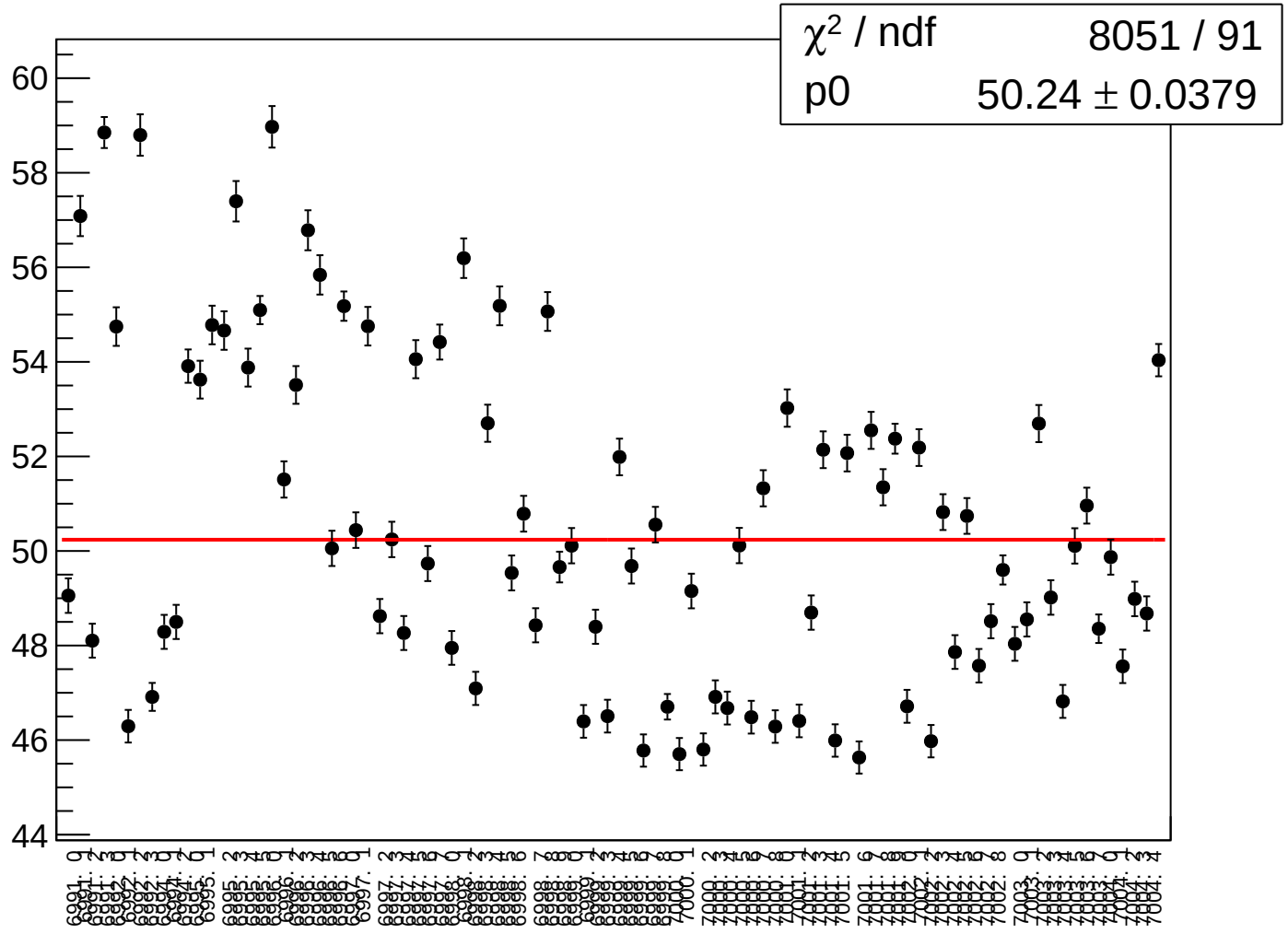

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 82.22 / 91
p0 −400.6 ± 390.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −601
Std Dev 0
2
1
0
−1
−2

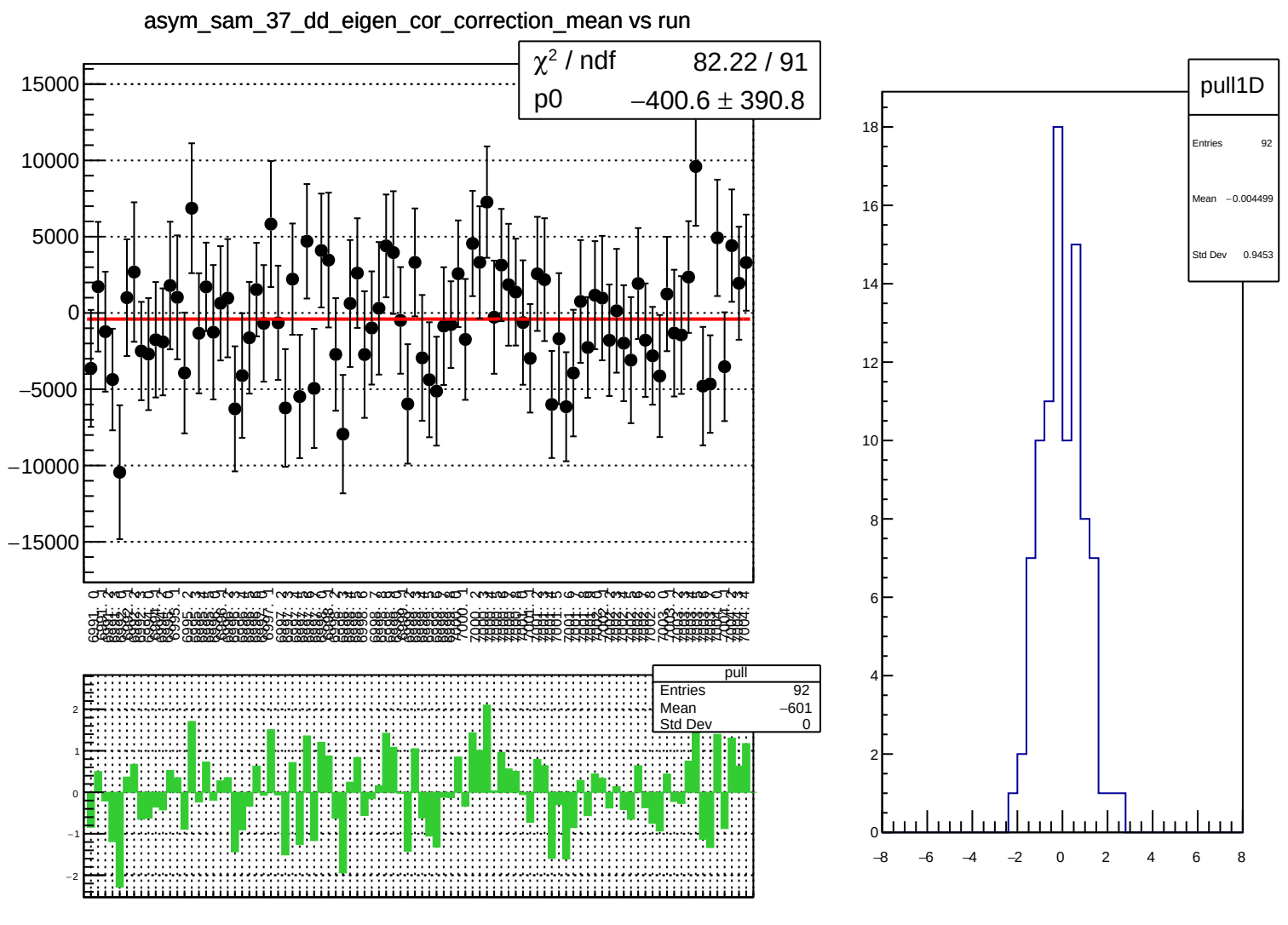

pull1D
Entries 92
Mean −0.004499
Std Dev 0.9453
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

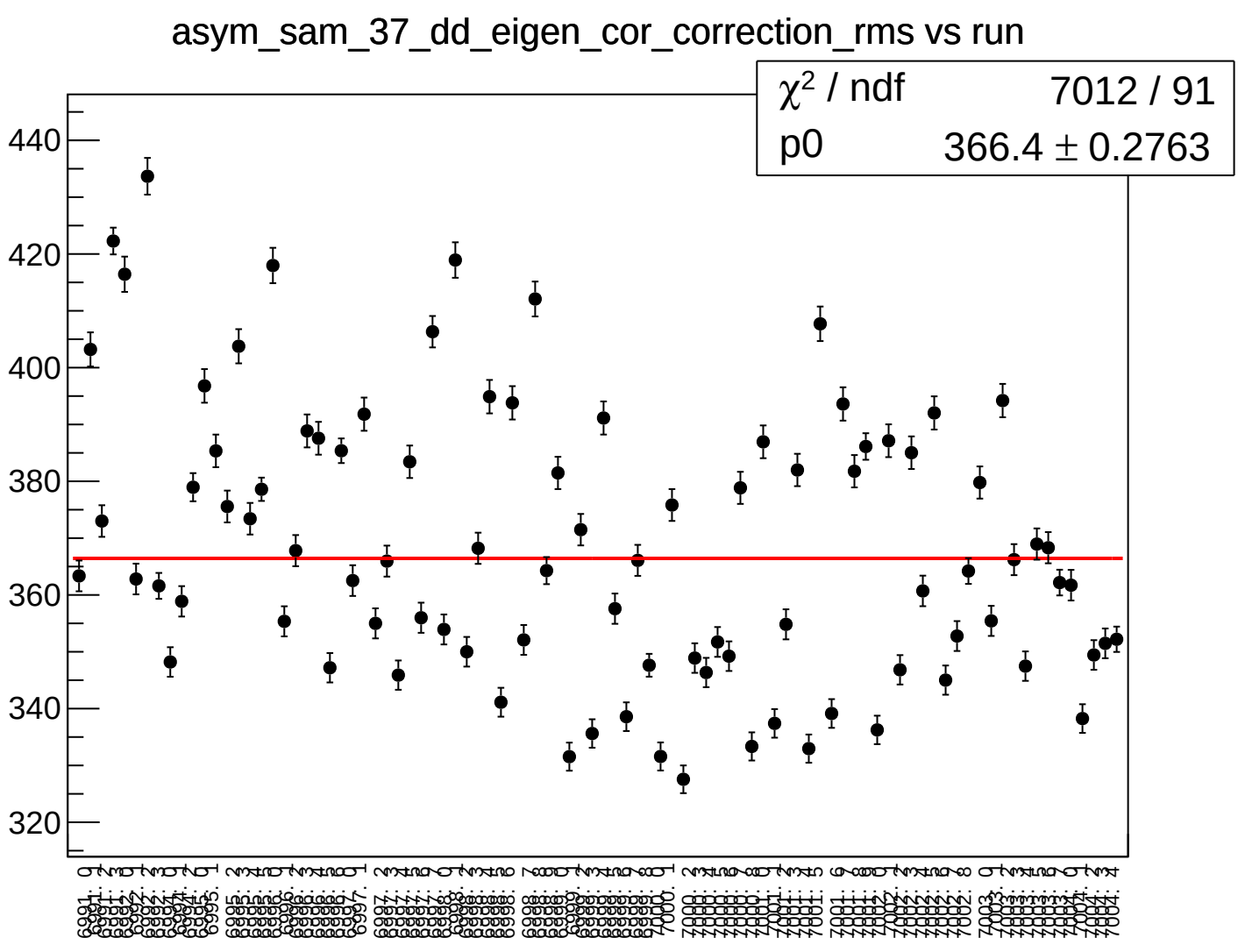

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 7012 / 91
p0 366.4 ± 0.2763
440
420
400
380
360
340
320

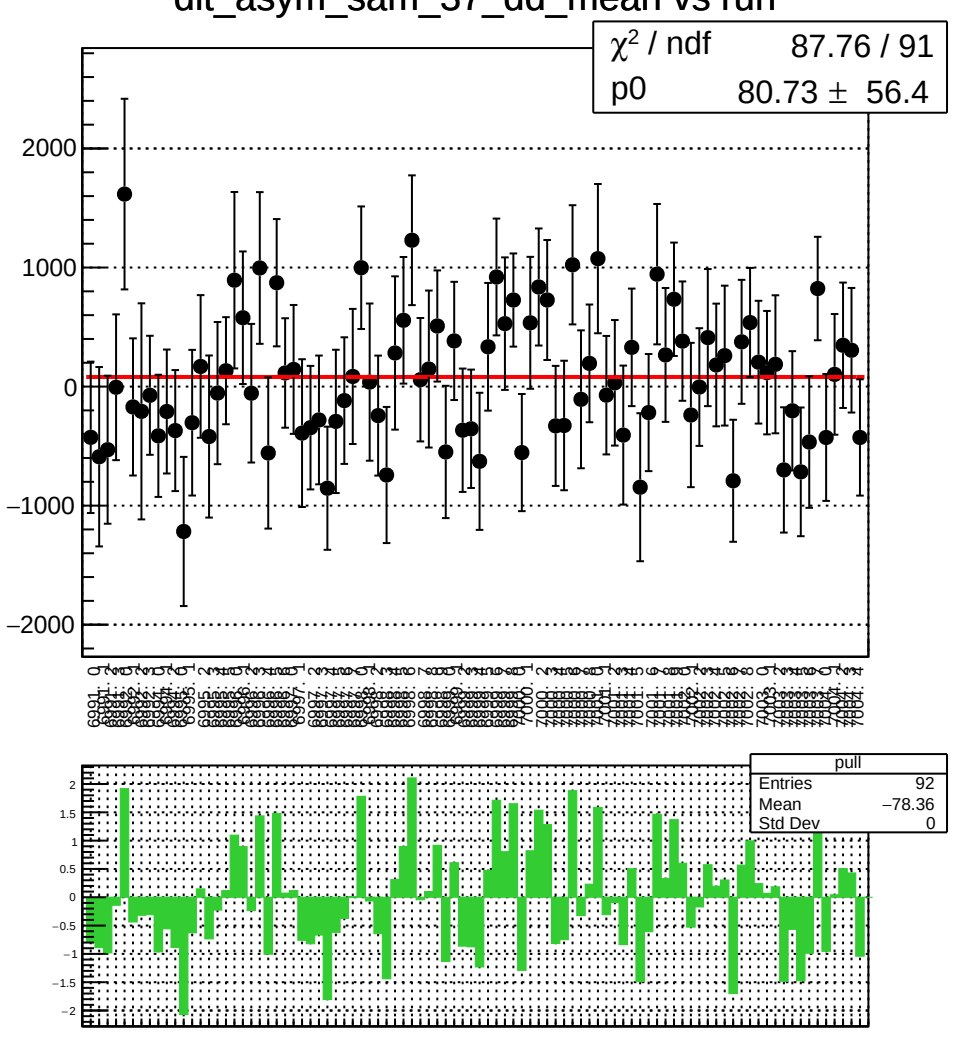

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 89.27 / 91
p0 58.94 ± 53.6
pull
Entries 92
Mean −224.8
Std Dev 0
pull1D
Entries 92
Mean −0.01831
Std Dev 0.9849

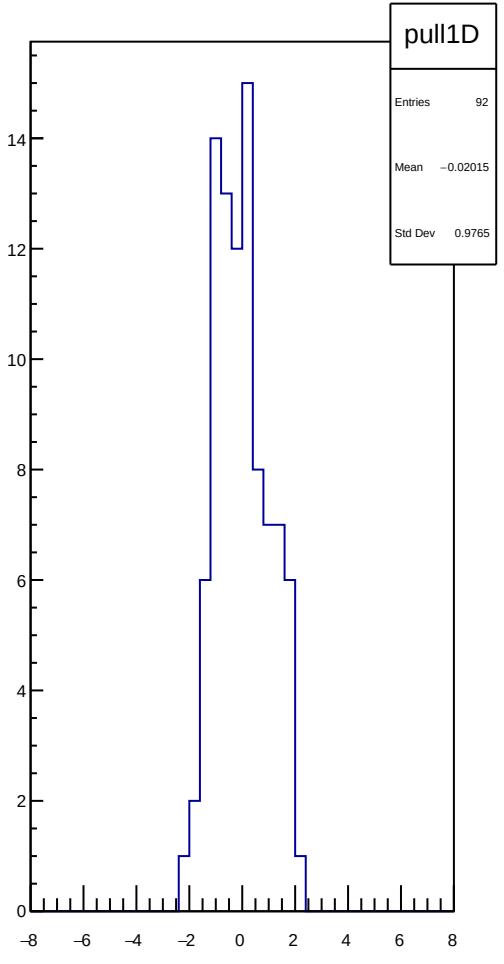
eigen_cor_asym_sam_37_dd_rms vs run

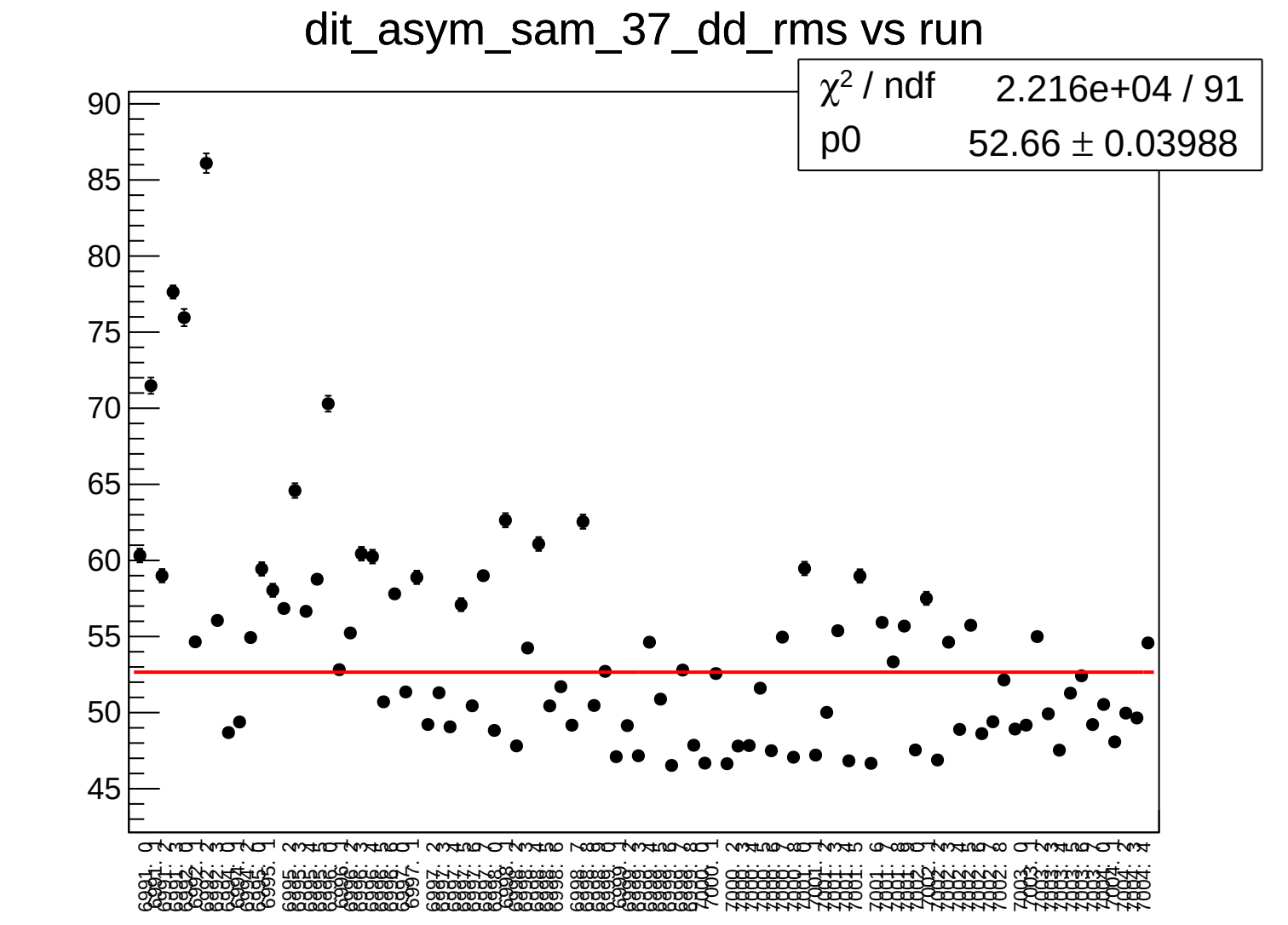


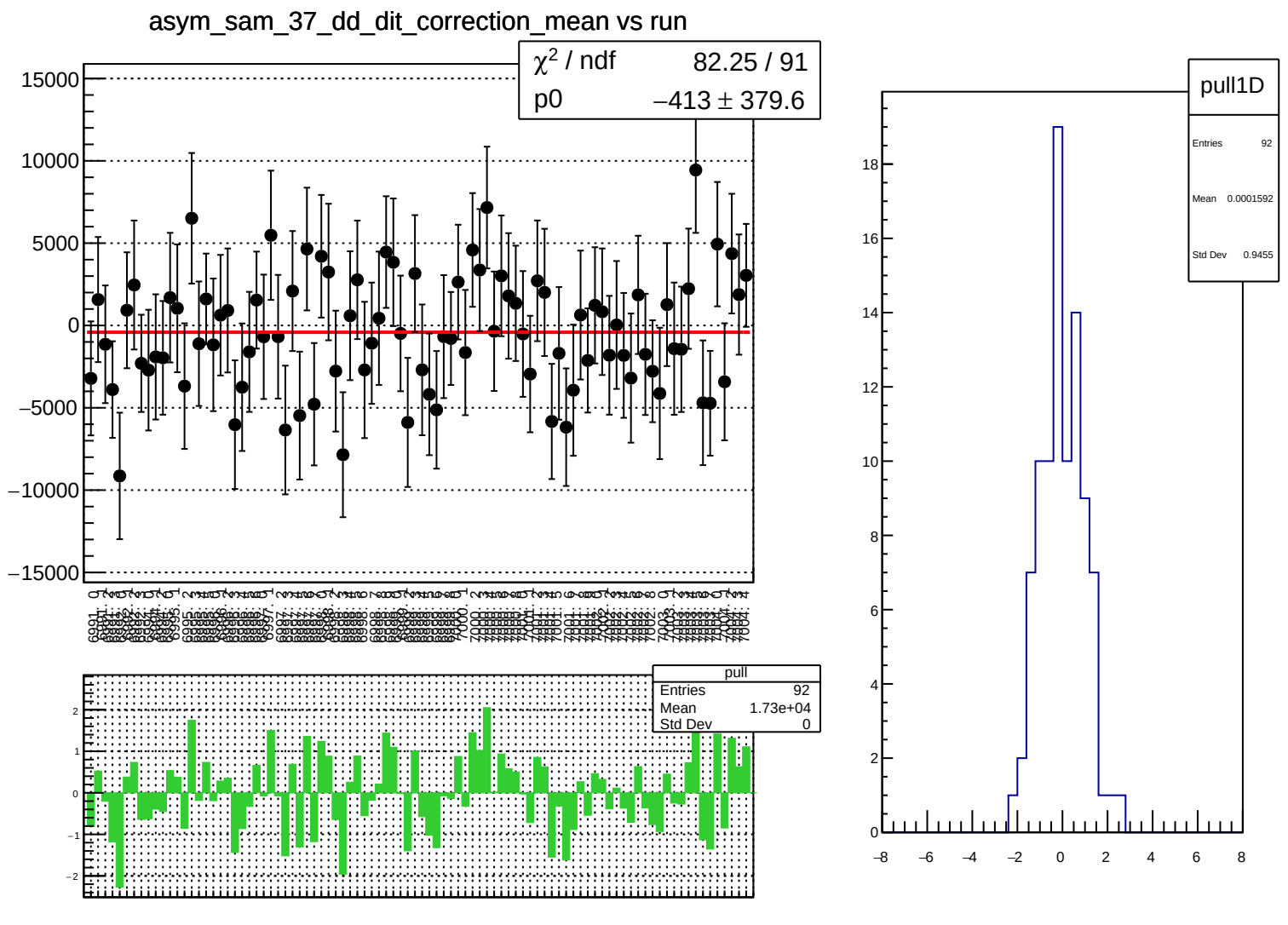

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.22 / 91
p0 −400.6 ± 390.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −601
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004499
Std Dev 0.9453
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

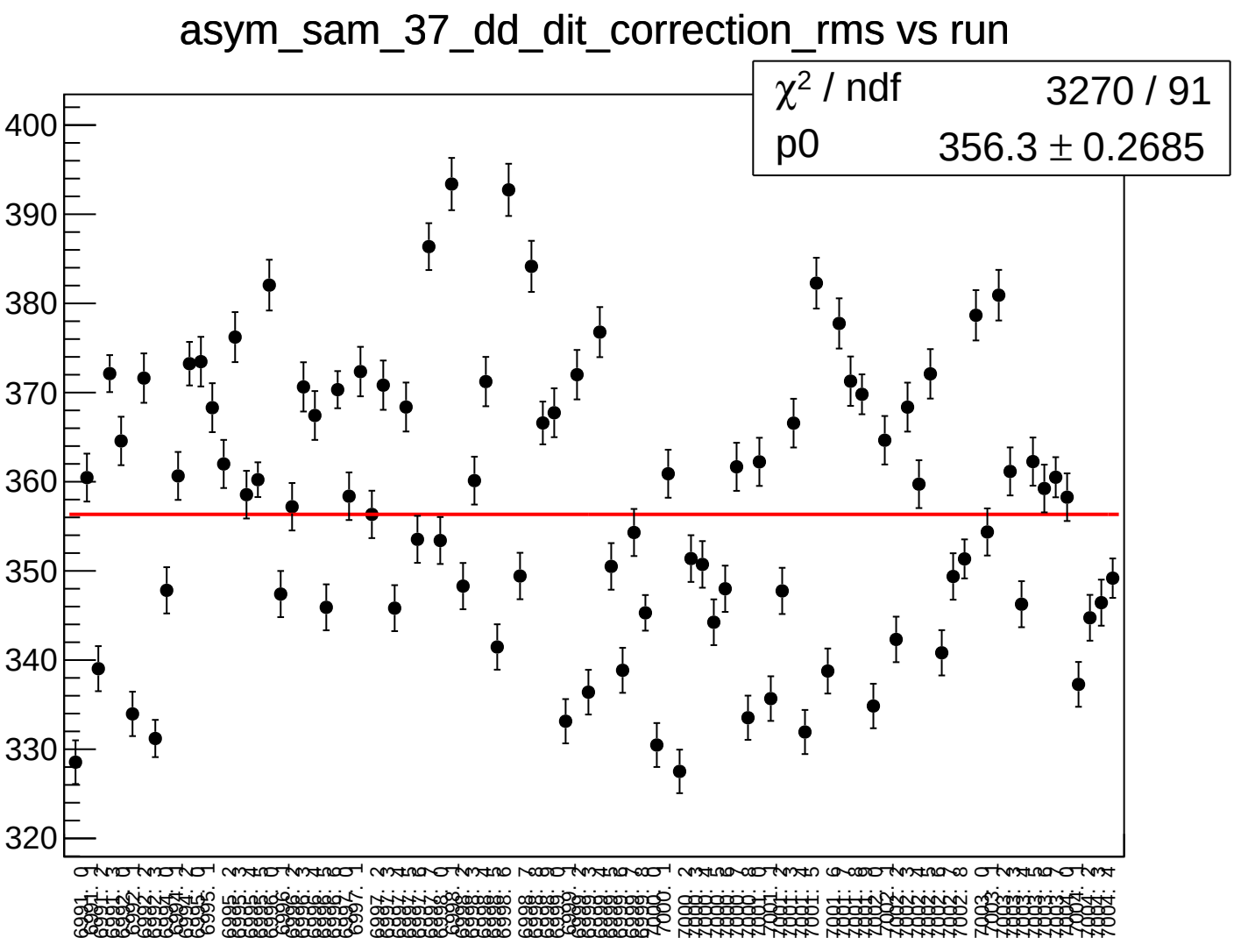

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 7012 / 91
p0 366.4 ± 0.2763
440
420
400
380
360
340
320

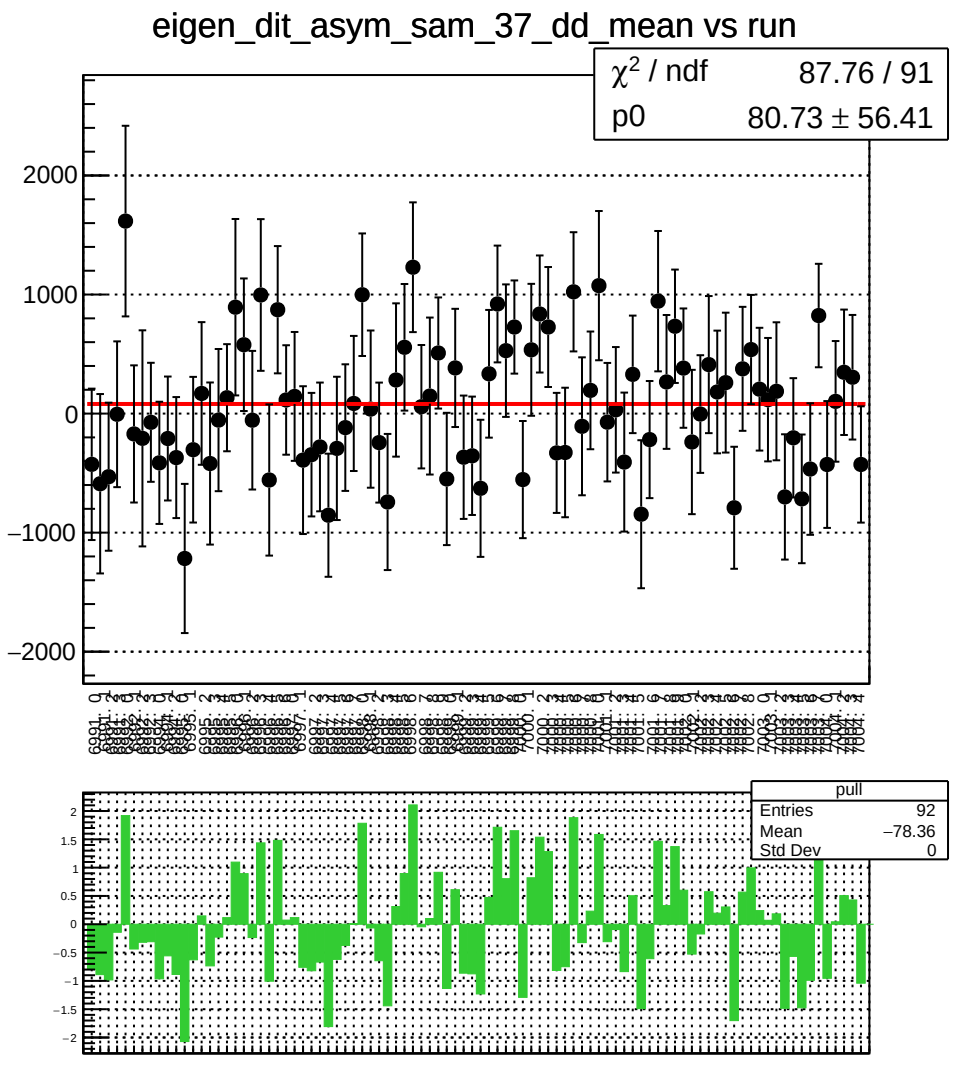

dit_asym_sam_37_dd_mean vs run
χ² / ndf 87.76 / 91
p0 80.73 ± 56.4
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −78.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

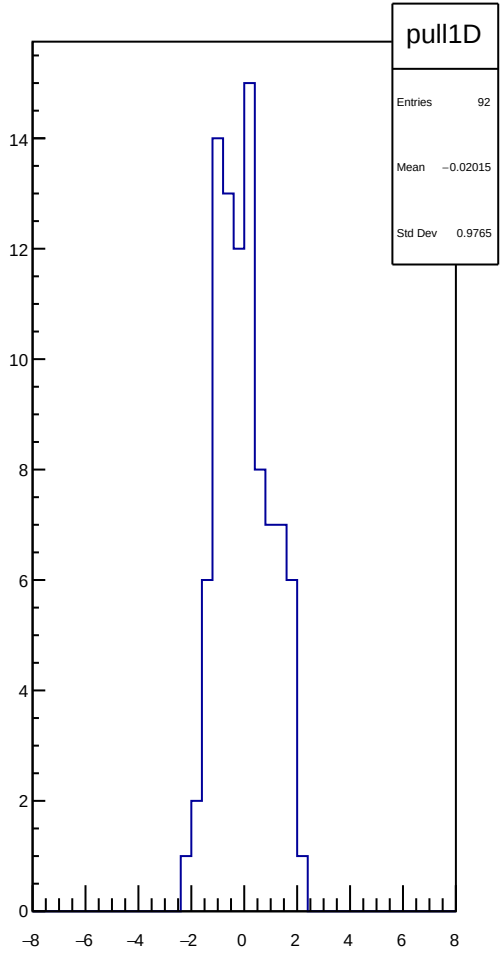

pull1D
Entries 92
Mean −0.02015
Std Dev 0.9765
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

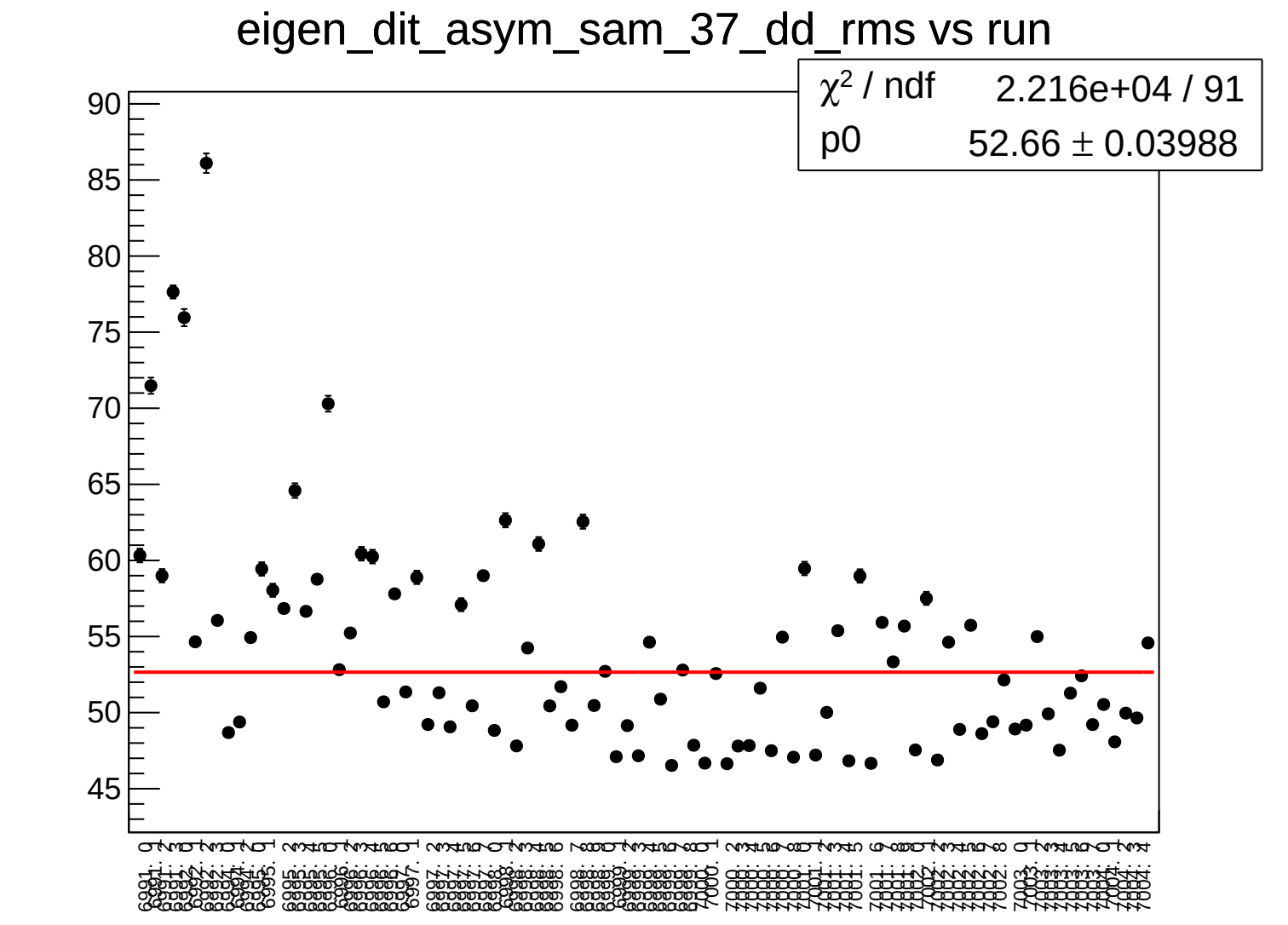

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.216e+04 / 91
p0 52.66 ± 0.03988
90
85
80
75
70
65
60
55
50
45

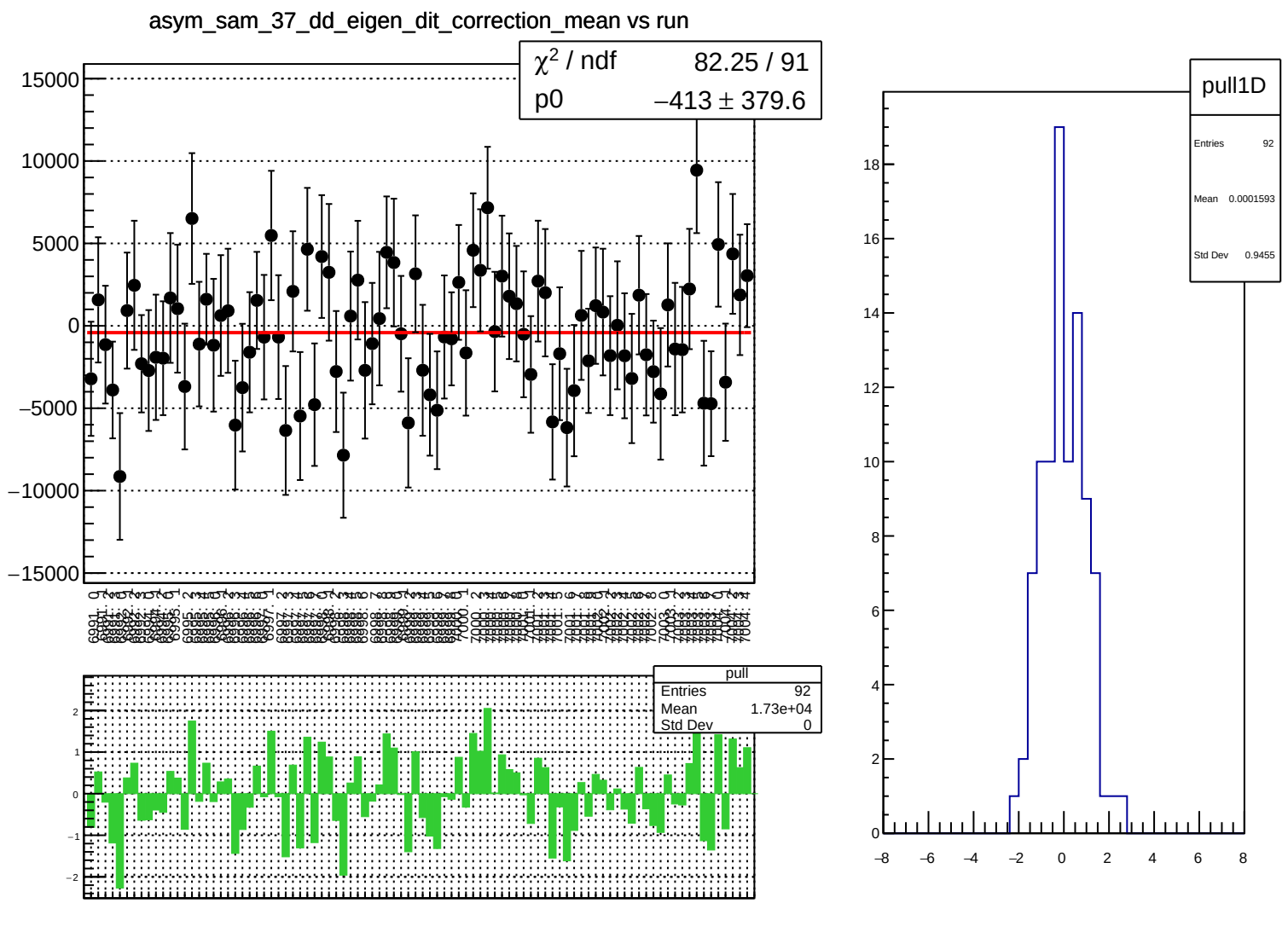

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 82.25 / 91
p0 −413 ± 379.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1.73e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0001592
Std Dev 0.9455
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

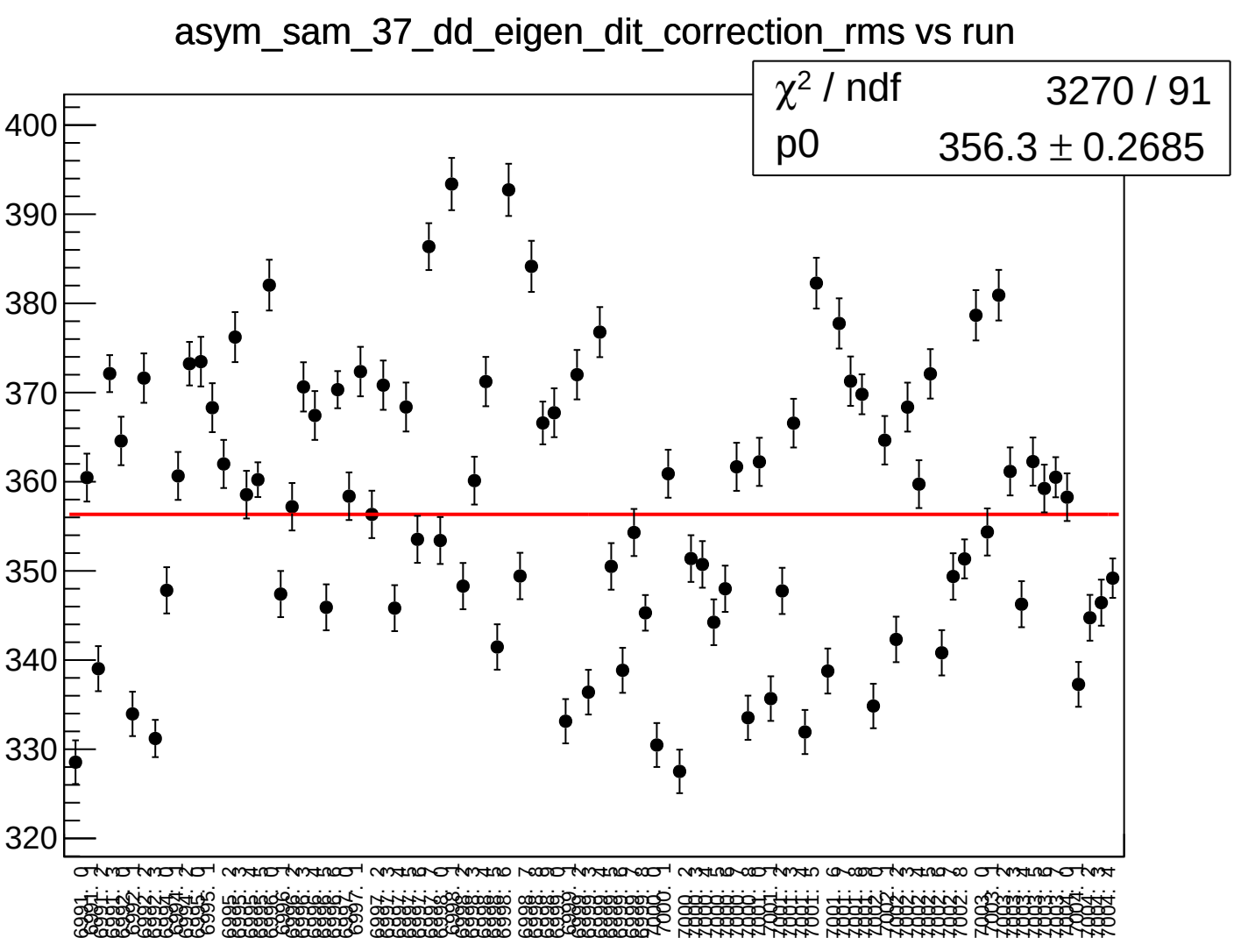

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3270 / 91
p0 356.3 ± 0.2685
400
390
380
370
360
350
340
330
320

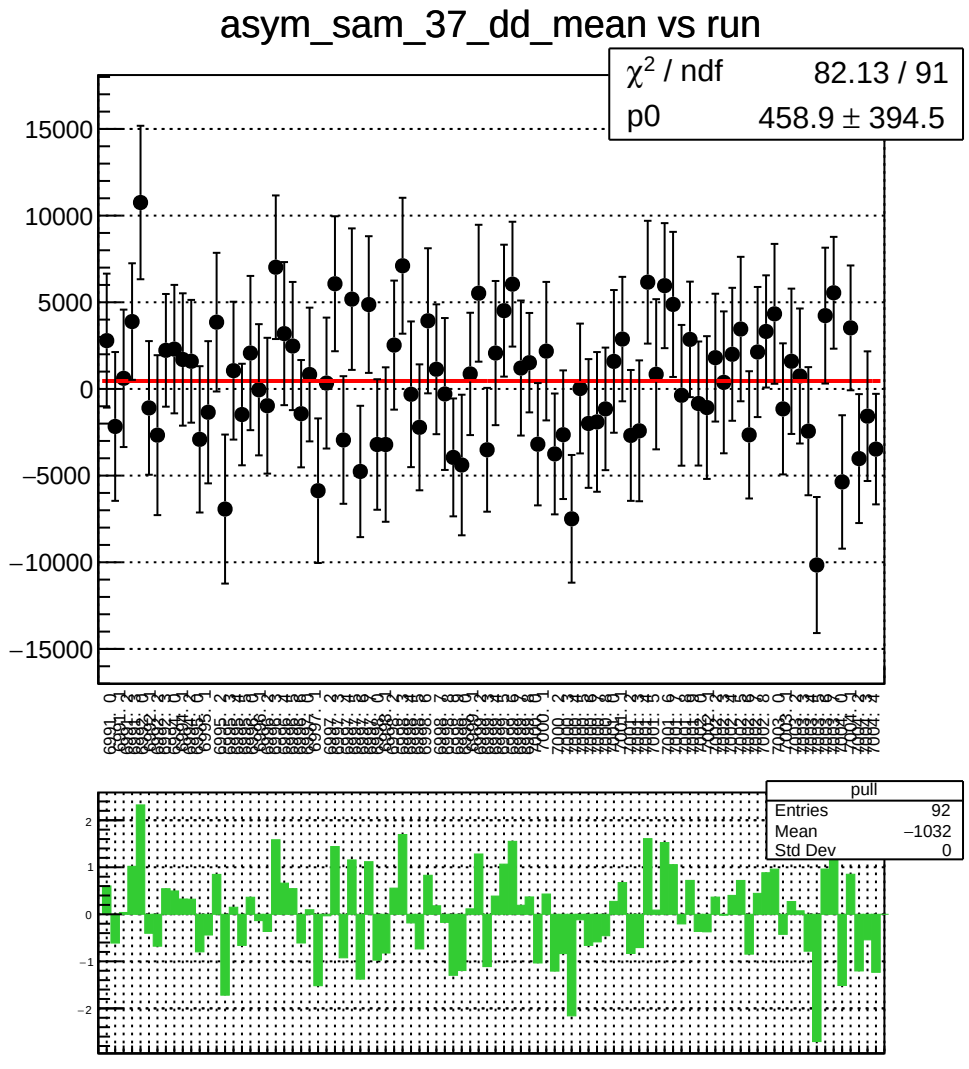

eigen_dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 87.76 / 91
p0 80.73 ± 56.41
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −78.36
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

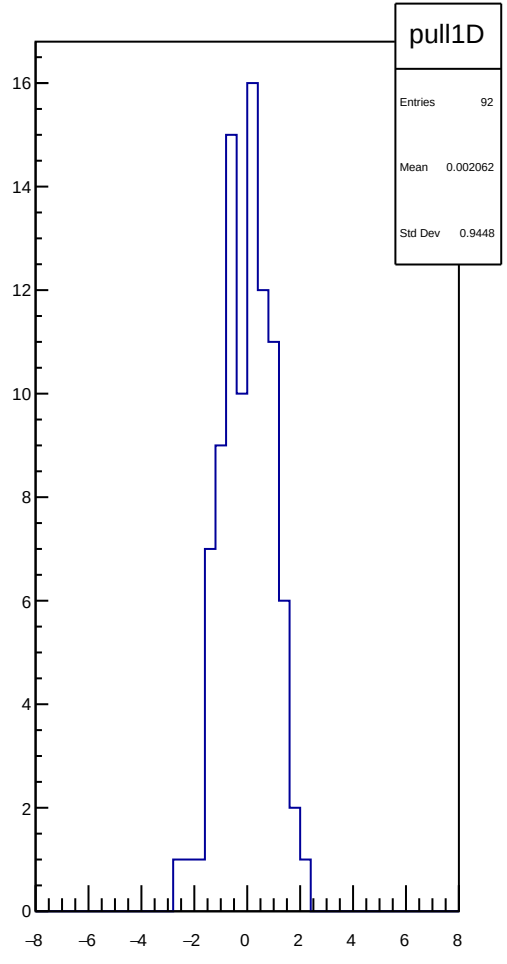

pull1D
Entries 92
Mean −0.02015
Std Dev 0.9765
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

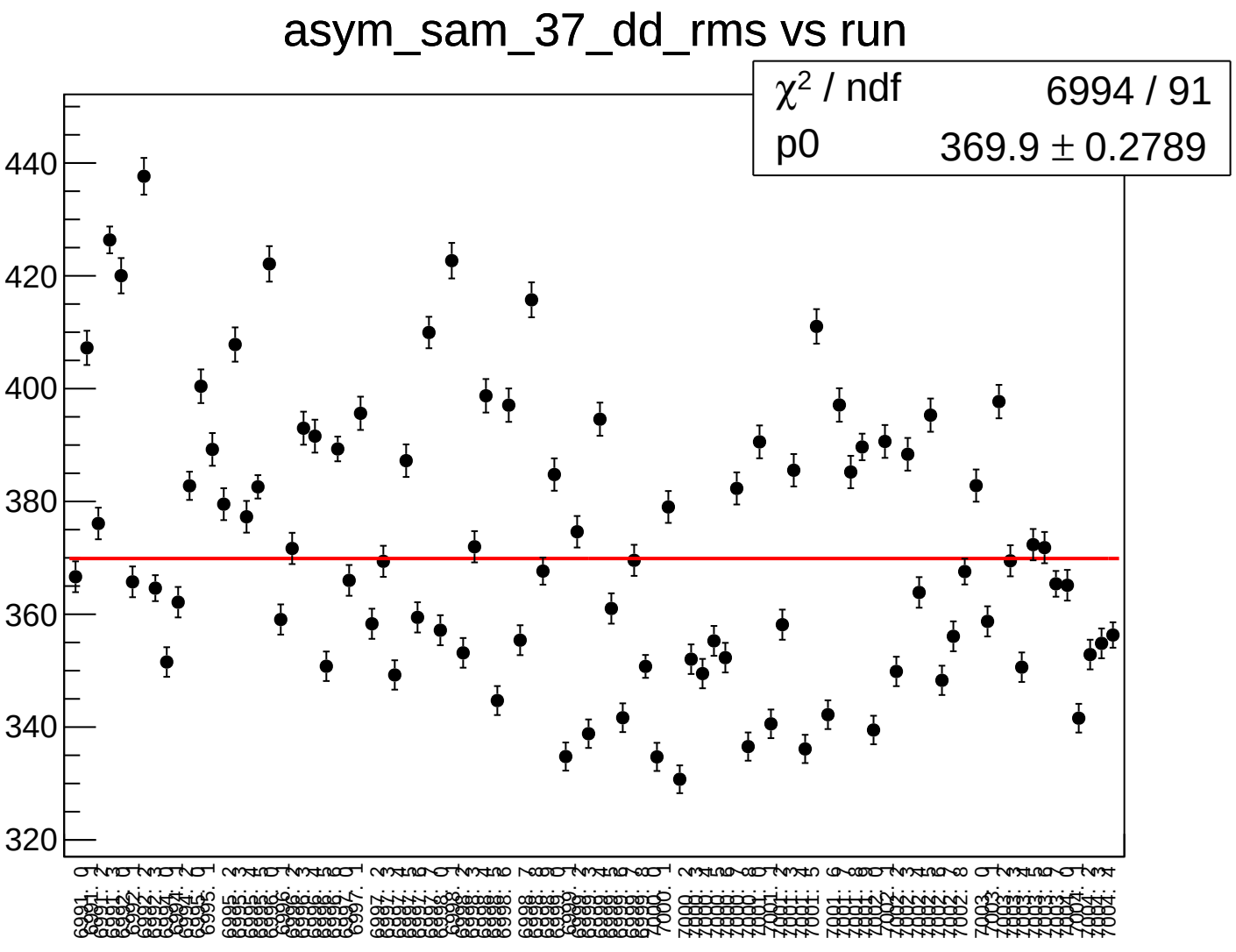

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.216e+04 / 91
p0 52.66 ± 0.03988
90
85
80
75
70
65
60
55
50
45

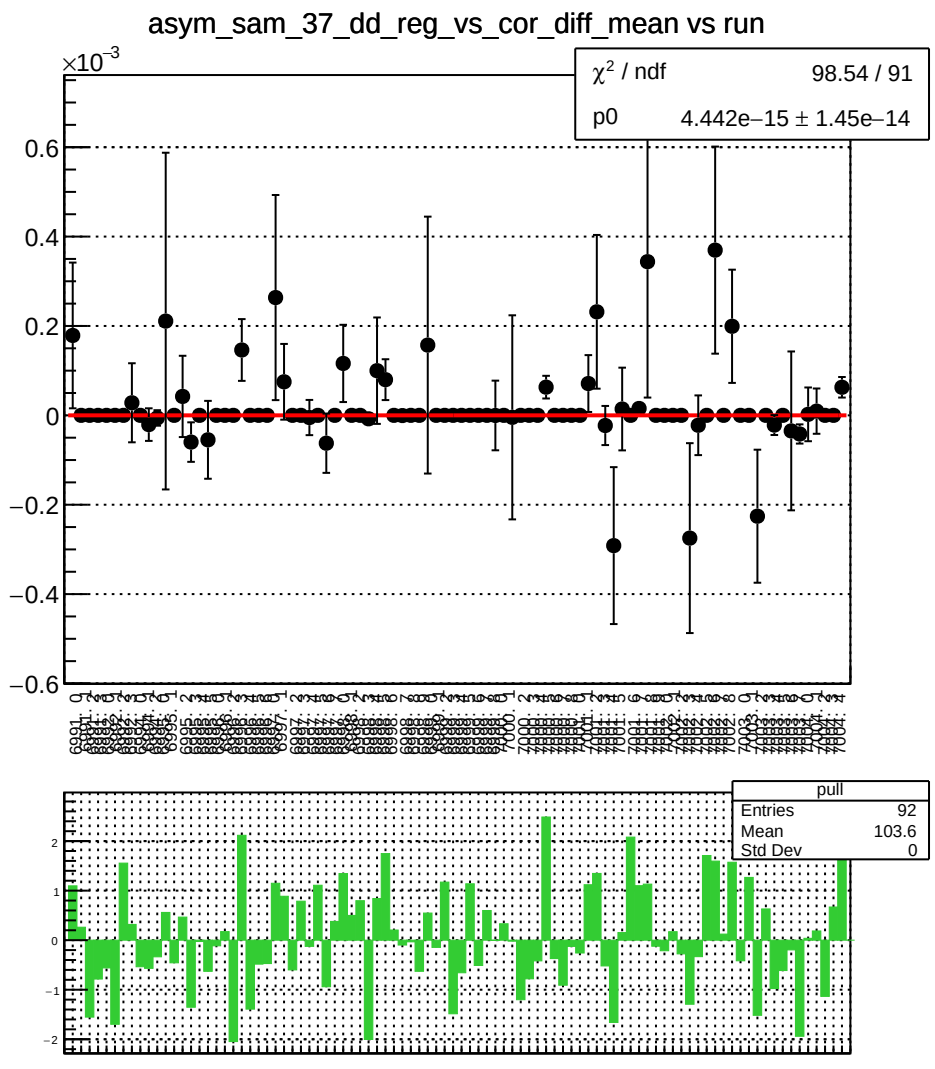

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.25 / 91
p0 −413 ± 379.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1.73e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0001593
Std Dev 0.9455
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

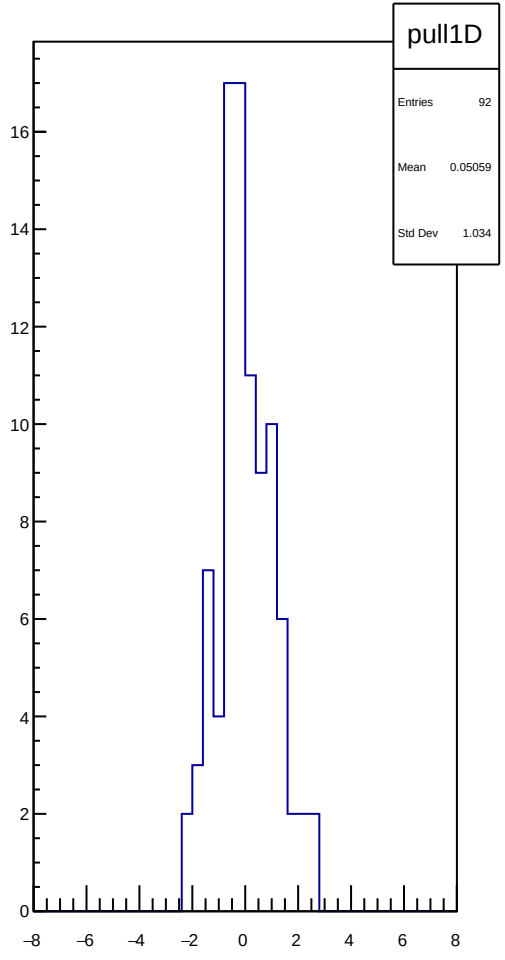

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3270 / 91
p0 356.3 ± 0.2685
400
390
380
370
360
350
340
330
320

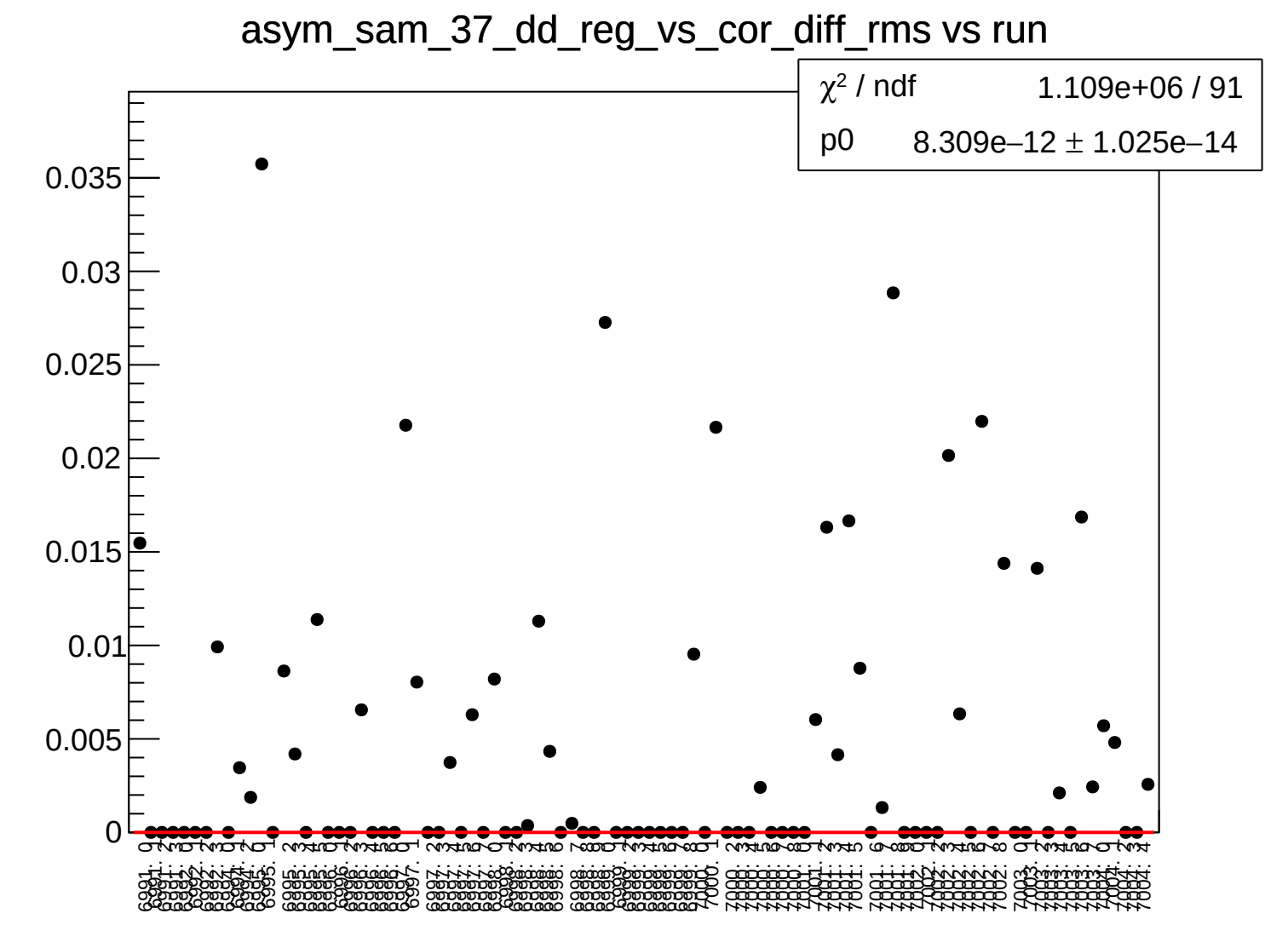

asym_sam_37_dd_mean vs run
χ² / ndf 82.13 / 91
p0 458.9 ± 394.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1032
Std Dev 0
2
1
0
−1
−2

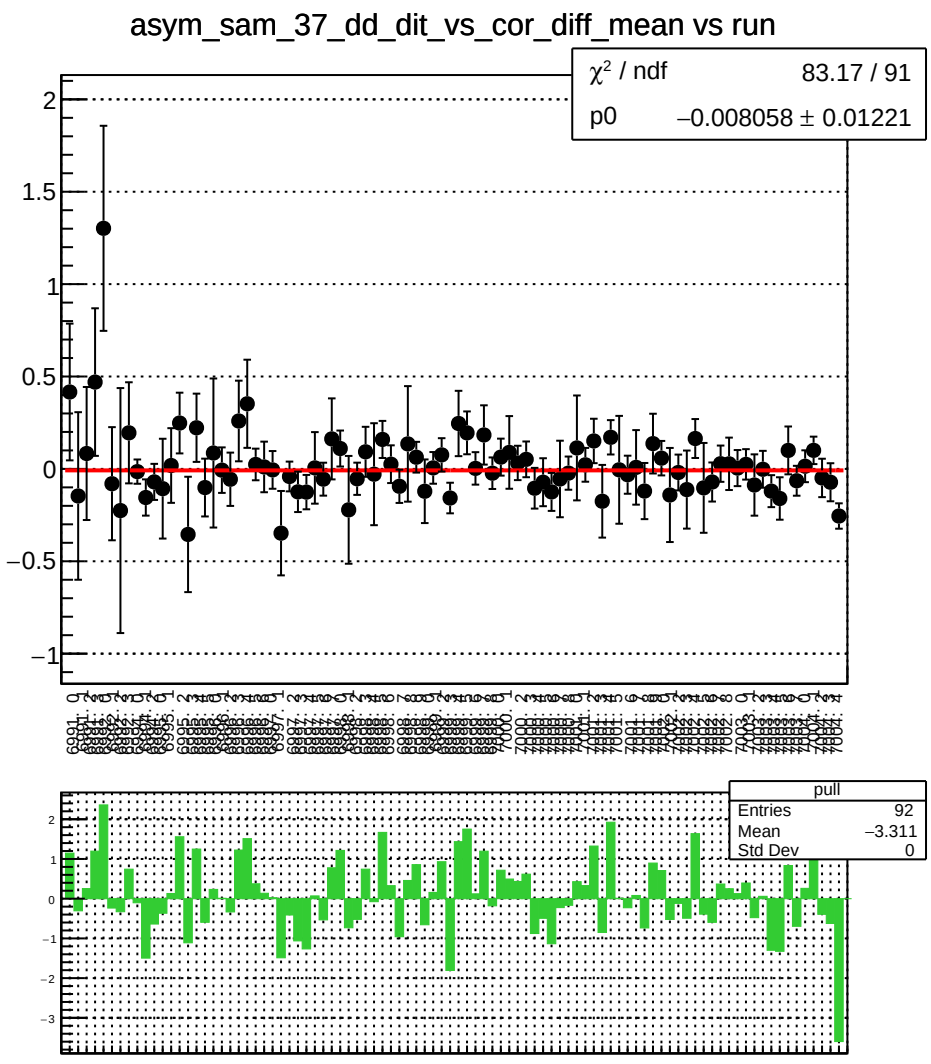

pull1D
Entries 92
Mean 0.002062
Std Dev 0.9448
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

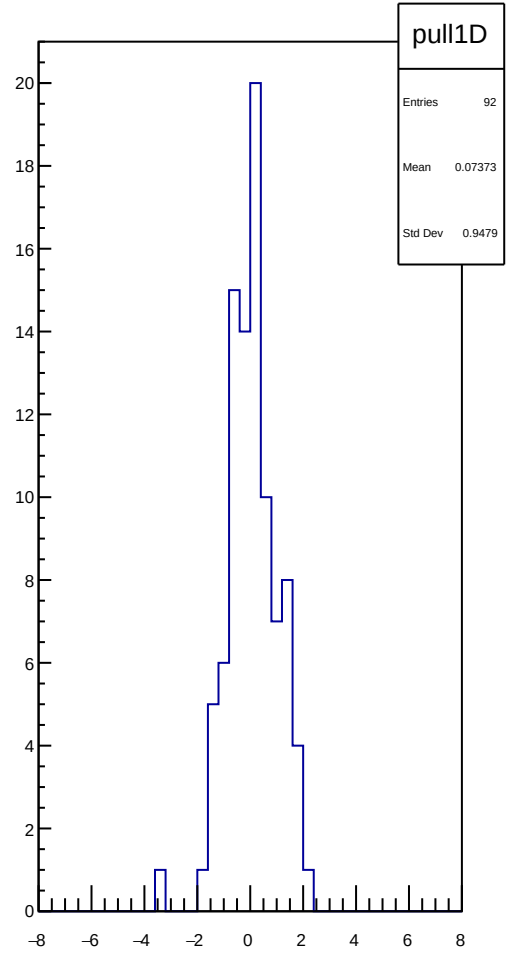

asym_sam_37_dd_rms vs run
χ² / ndf 6994 / 91
p0 369.9 ± 0.2789
440
420
400
380
360
340
320

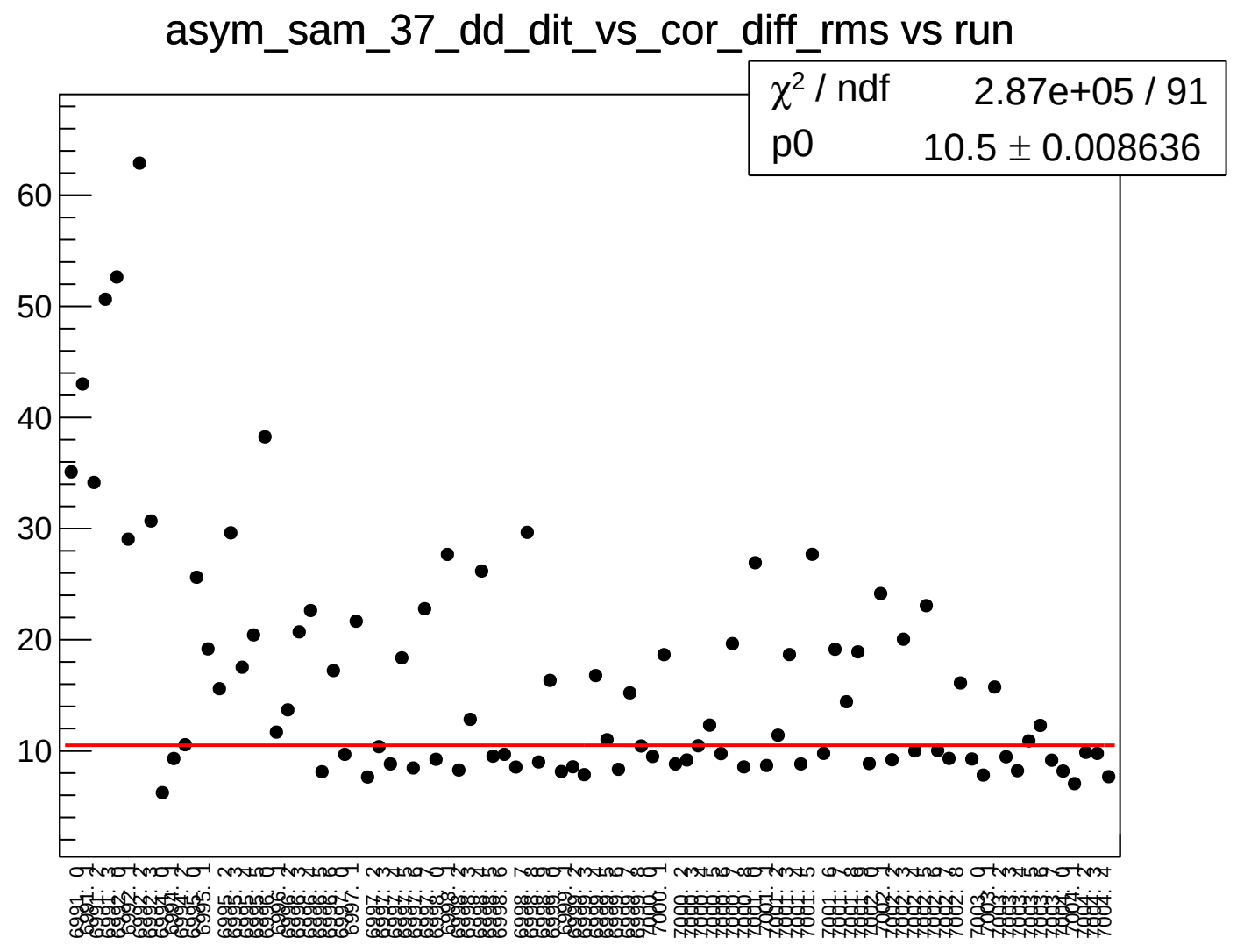

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 98.54 / 91
p0 4.442e−15 ± 1.45e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean 103.6
Std Dev 0
2
1
0
−1
−2

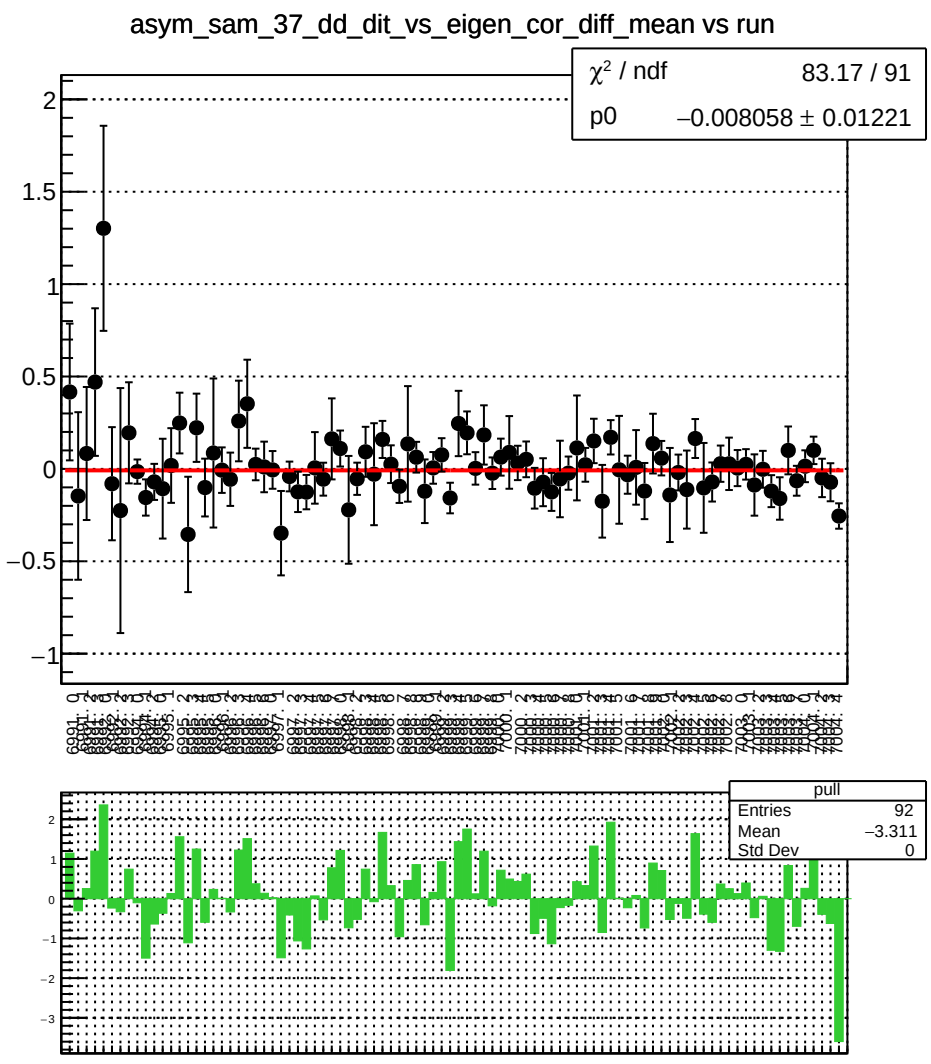

pull1D
Entries 92
Mean 0.05059
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

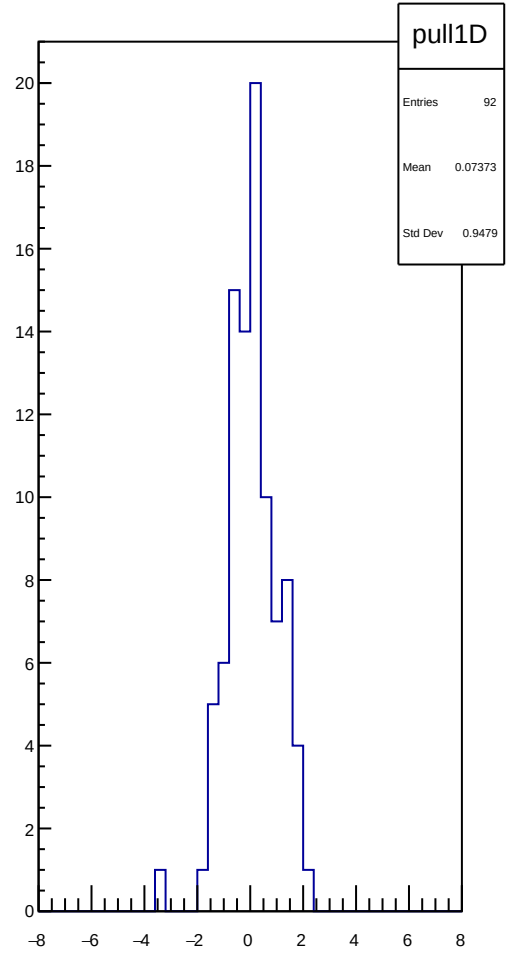

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 91
p0 8.309e−12 ± 1.025e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

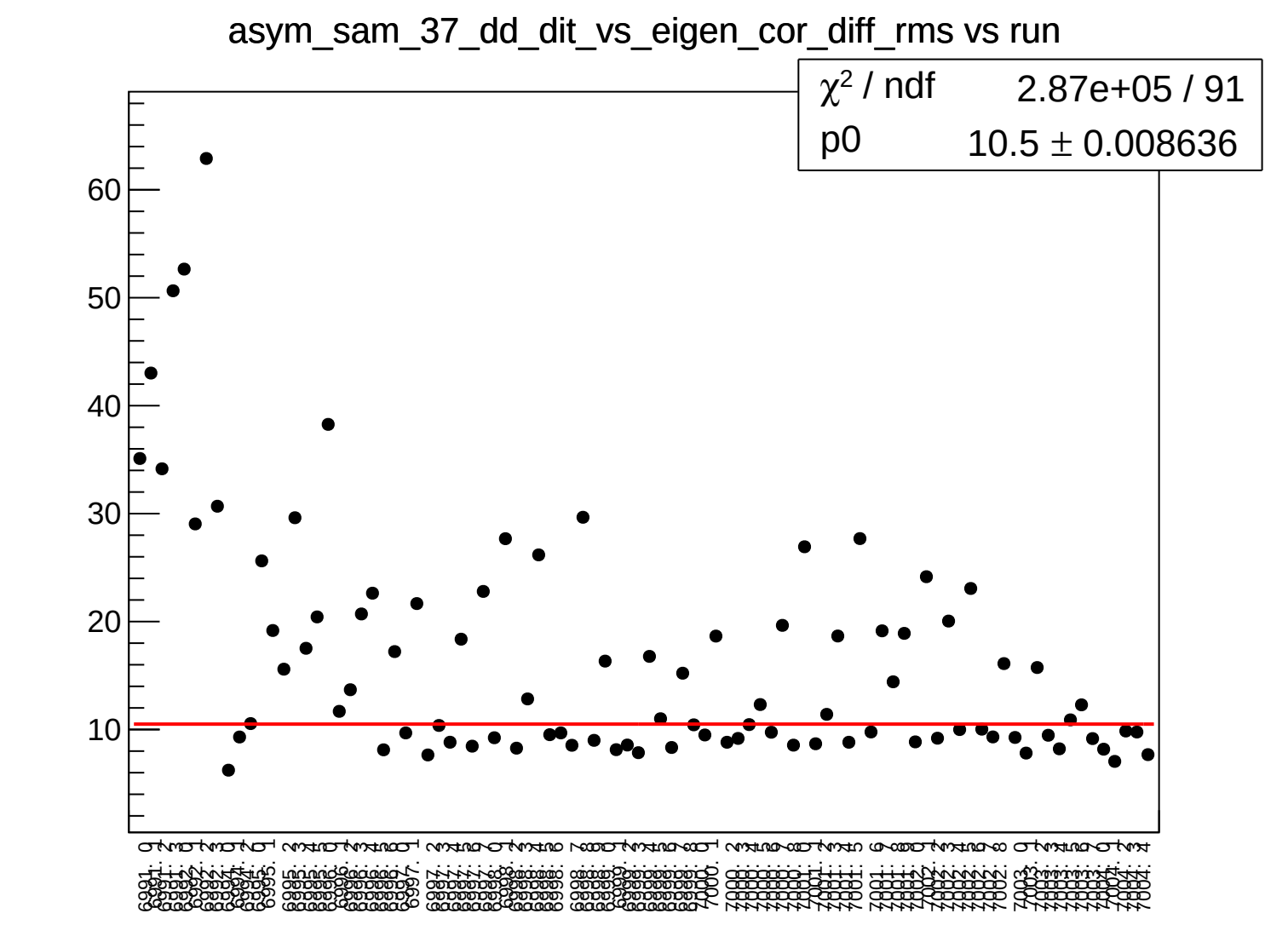

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.17 / 91
p0 −0.008058 ± 0.01221
pull
Entries 92
Mean −3.311
Std Dev 0

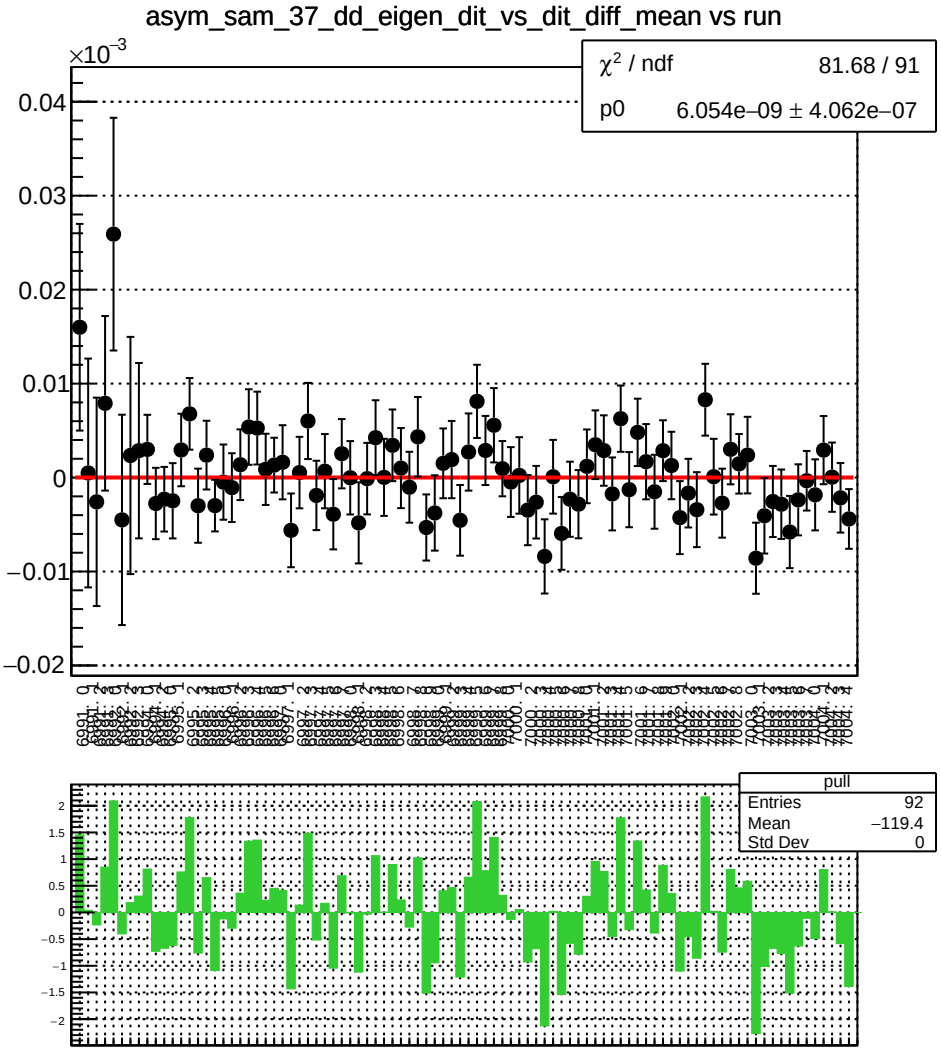

pull1D
Entries 92
Mean 0.07373
Std Dev 0.9479

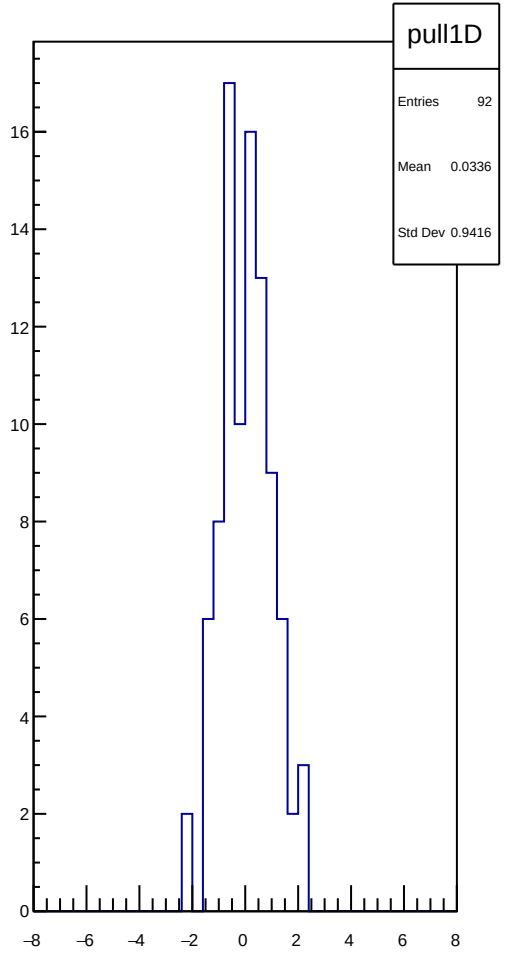

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.87e+05 / 91
p0 10.5 ± 0.008636
60
50
40
30
20
10

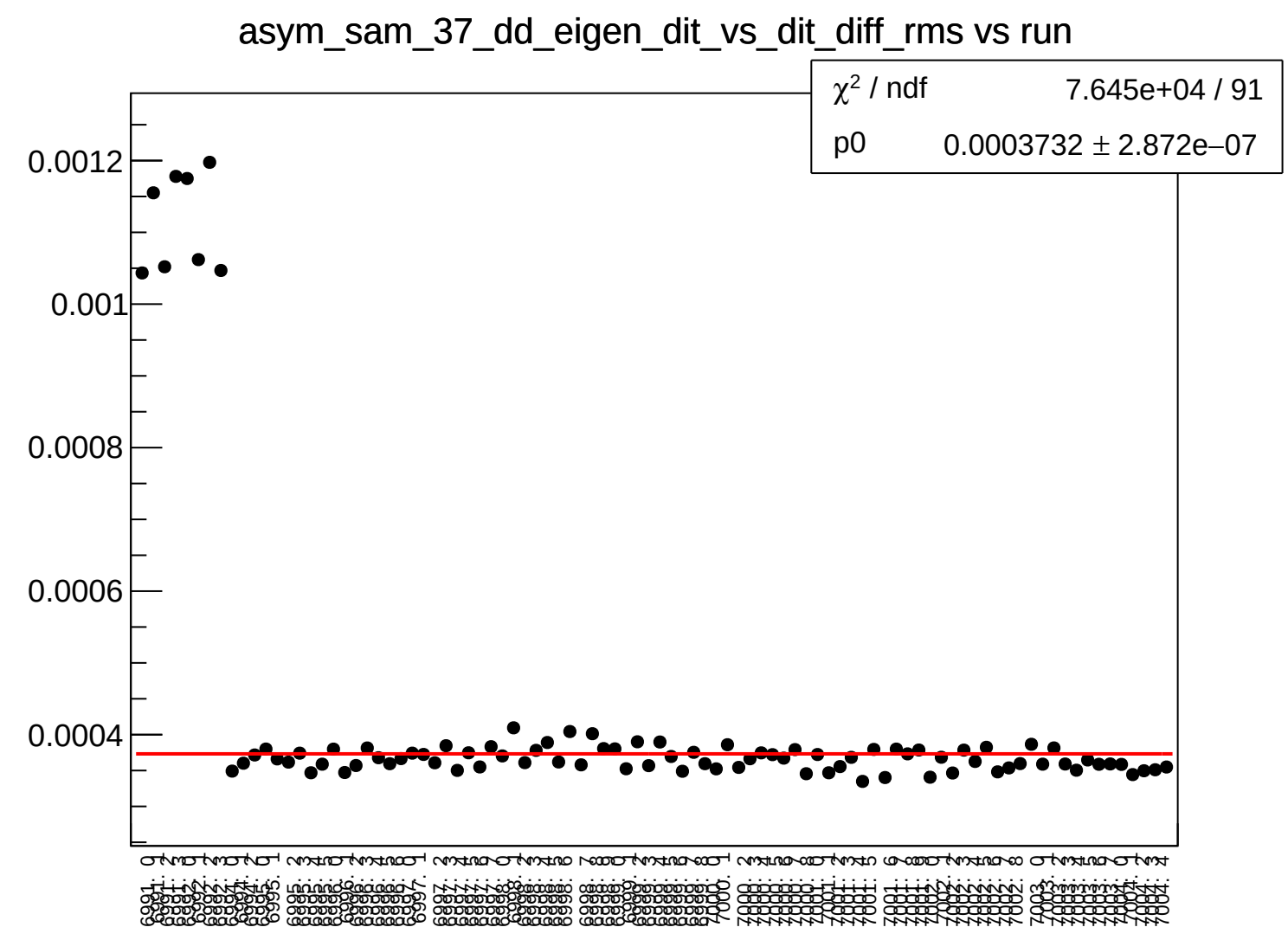

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.17 / 91
p0 −0.008058 ± 0.01221
pull
Entries 92
Mean −3.311
Std Dev 0

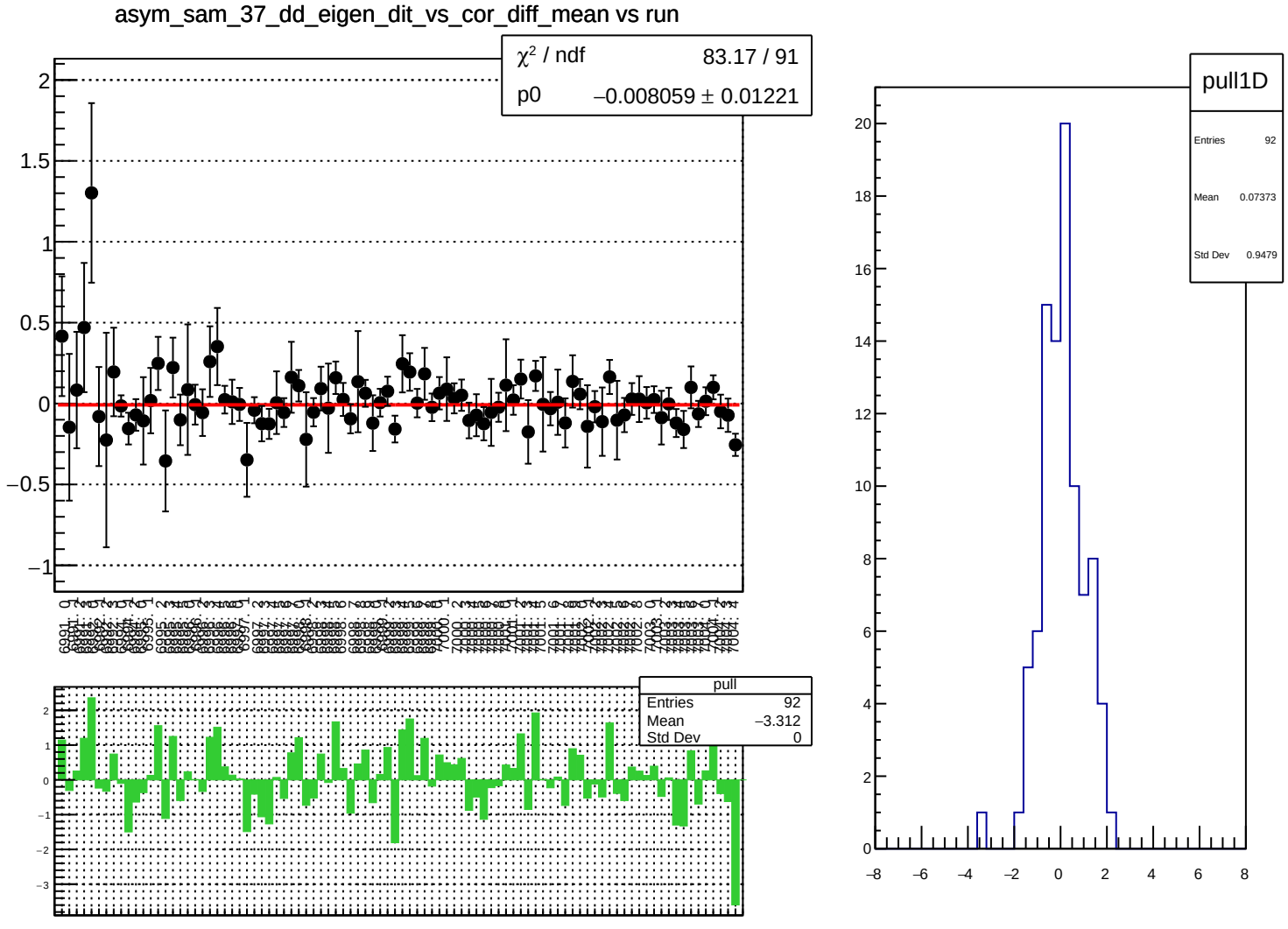

pull1D
Entries 92
Mean 0.07373
Std Dev 0.9479

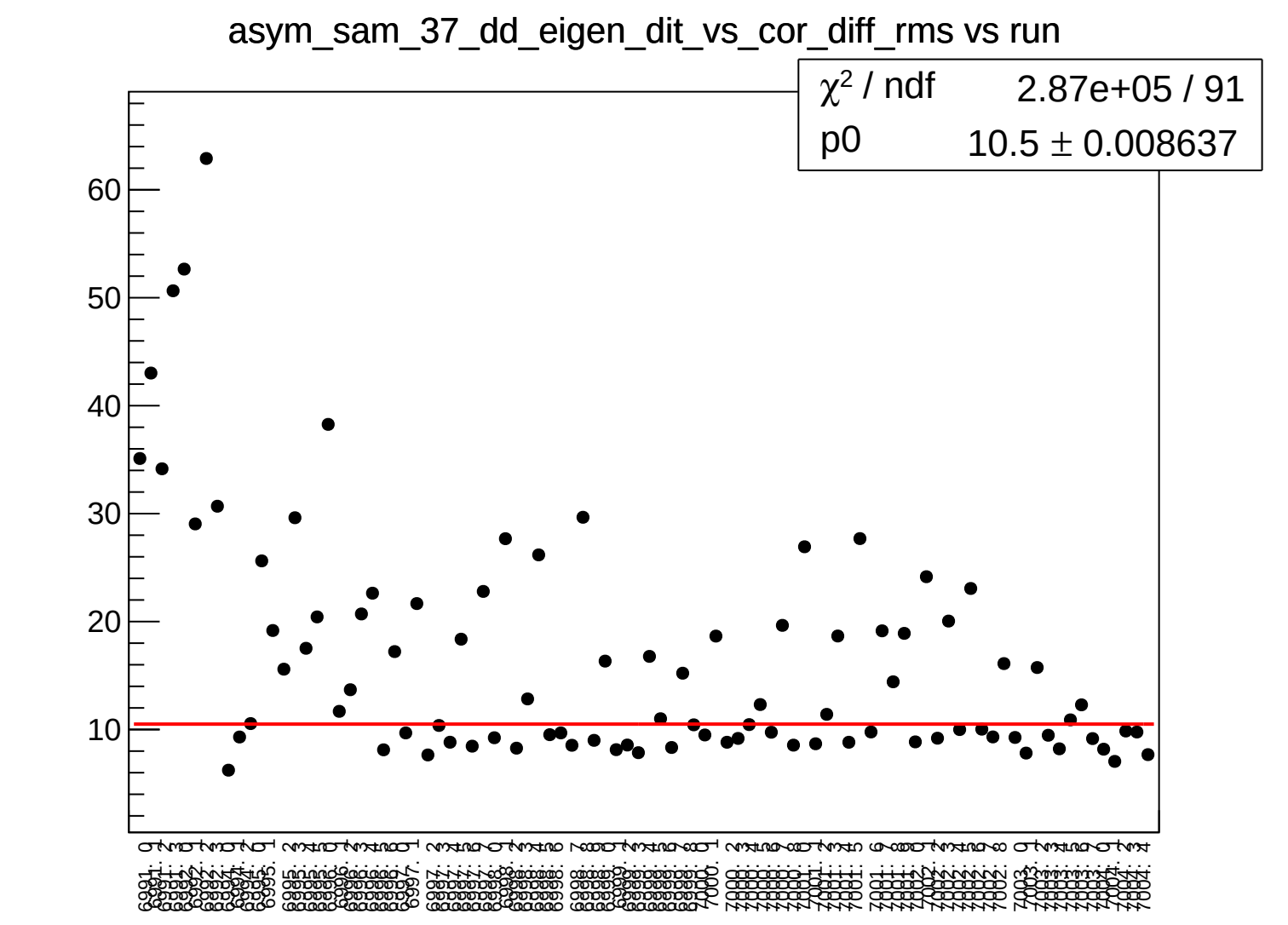

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.87e+05 / 91
p0 10.5 ± 0.008636
60
50
40
30
20
10

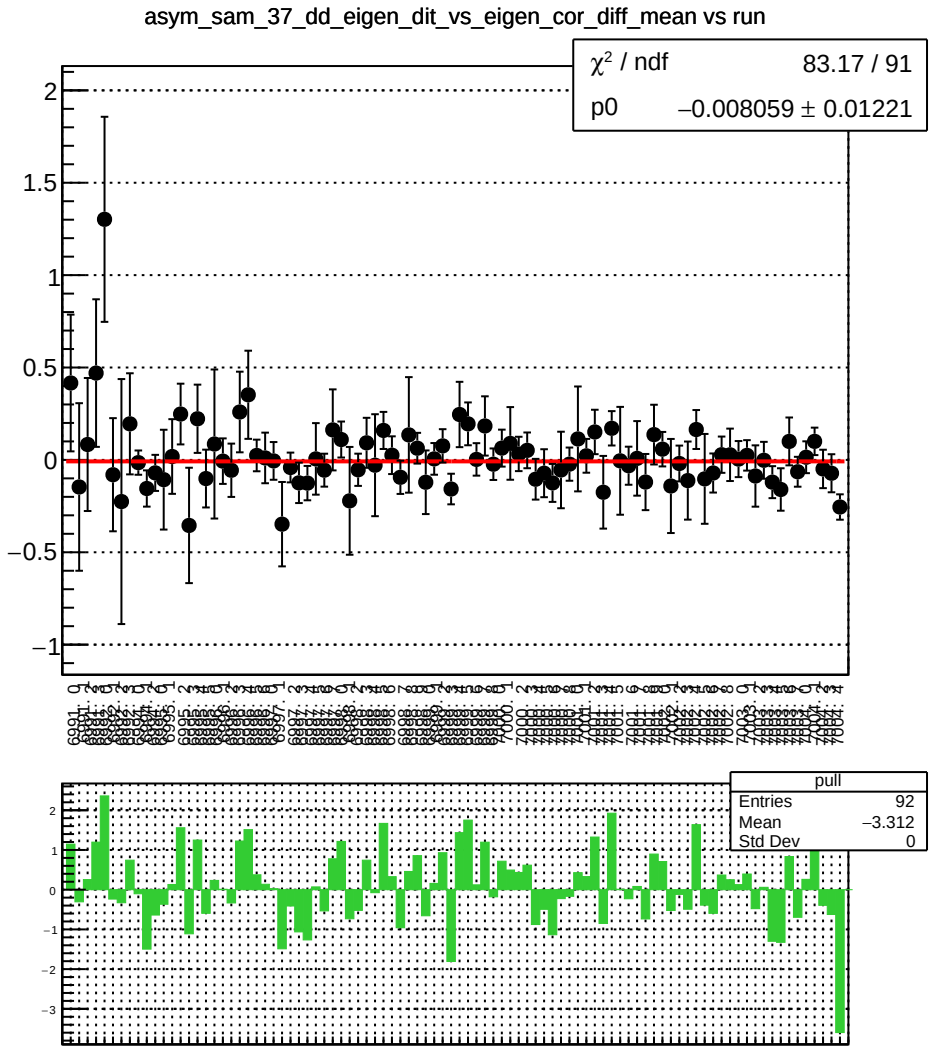

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 81.68 / 91
p0 6.054e−09 ± 4.062e−07
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −119.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

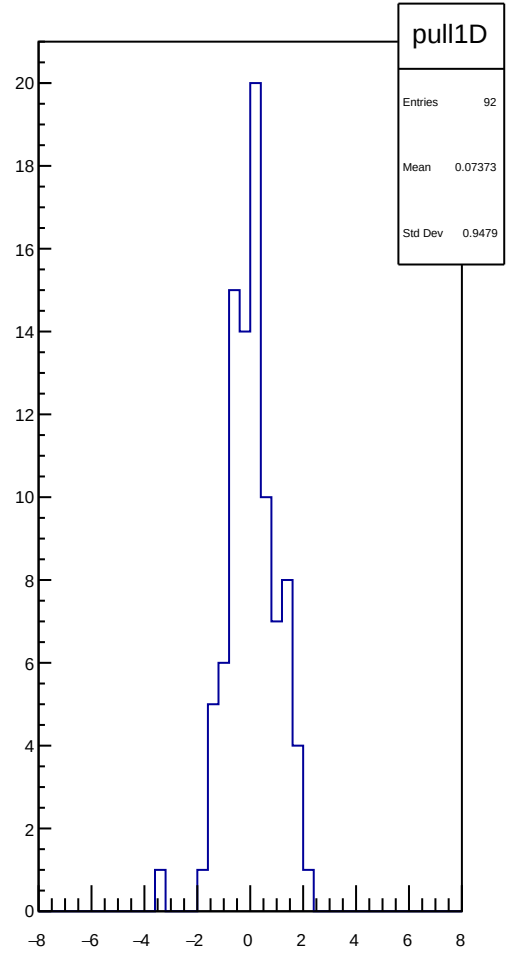

pull1D
Entries 92
Mean 0.0336
Std Dev 0.9416
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

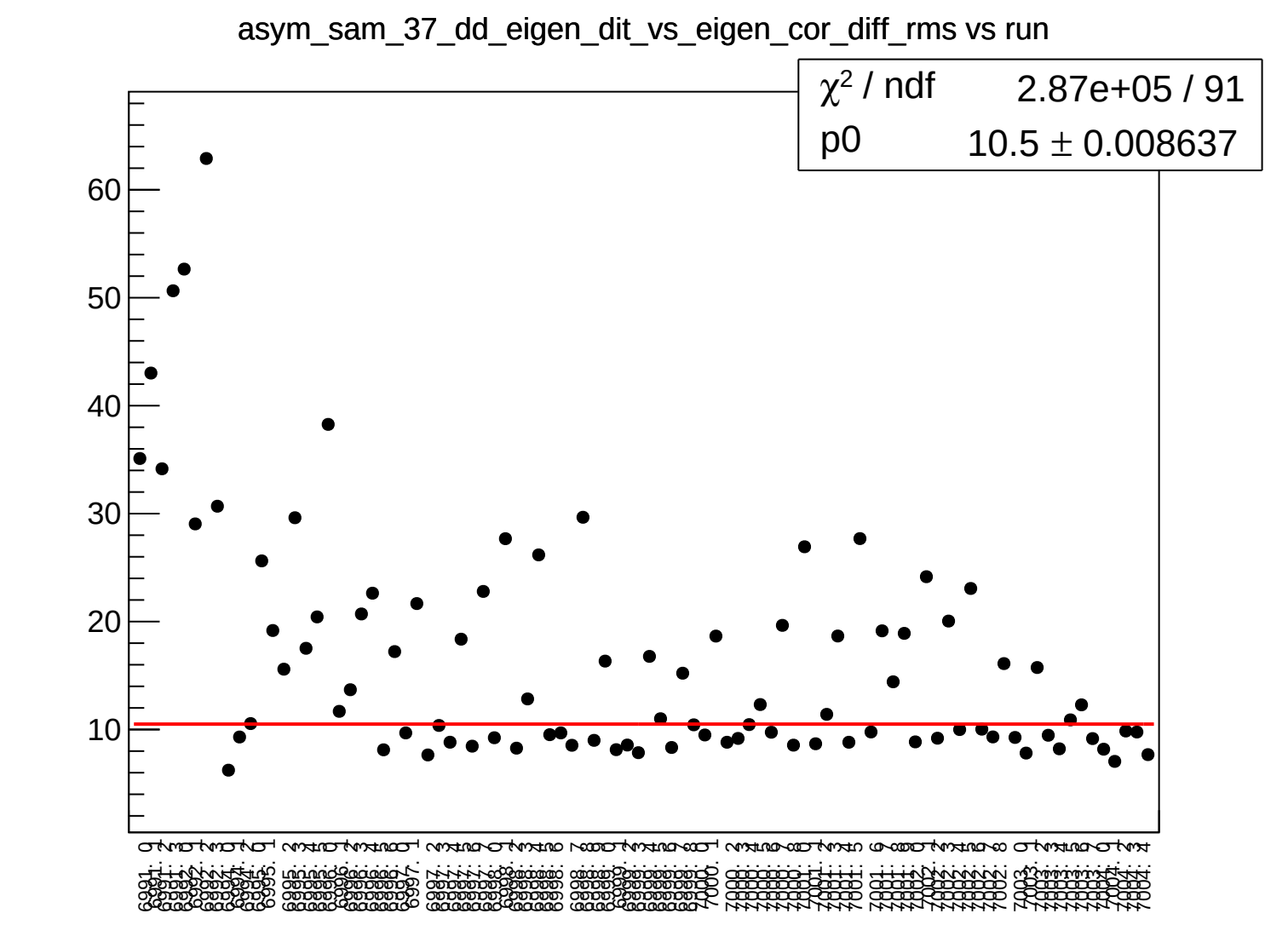

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.645e+04 / 91
p0 0.0003732 ± 2.872e−07
0.0012
0.001
0.0008
0.0006
0.0004

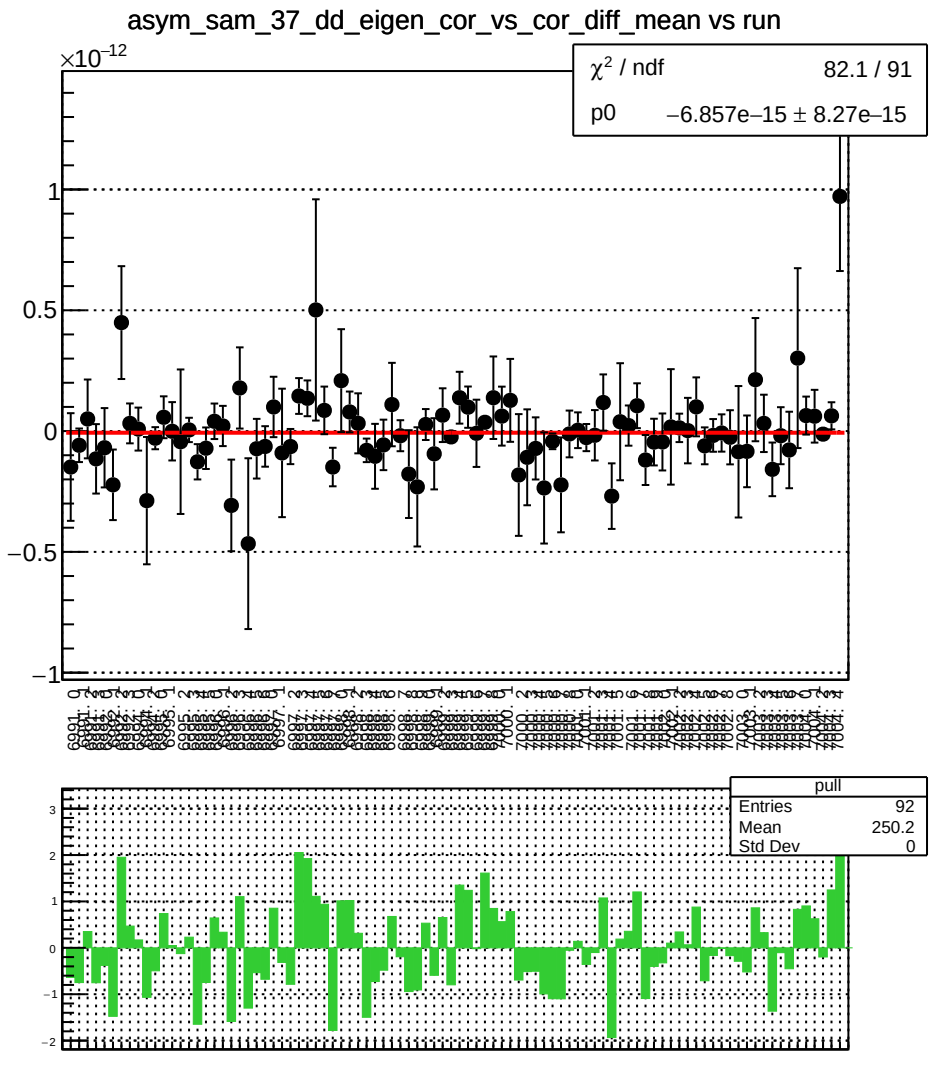

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.17 / 91
p0 −0.008059 ± 0.01221
pull
Entries 92
Mean −3.312
Std Dev 0
pull1D
Entries 92
Mean 0.07373
Std Dev 0.9479

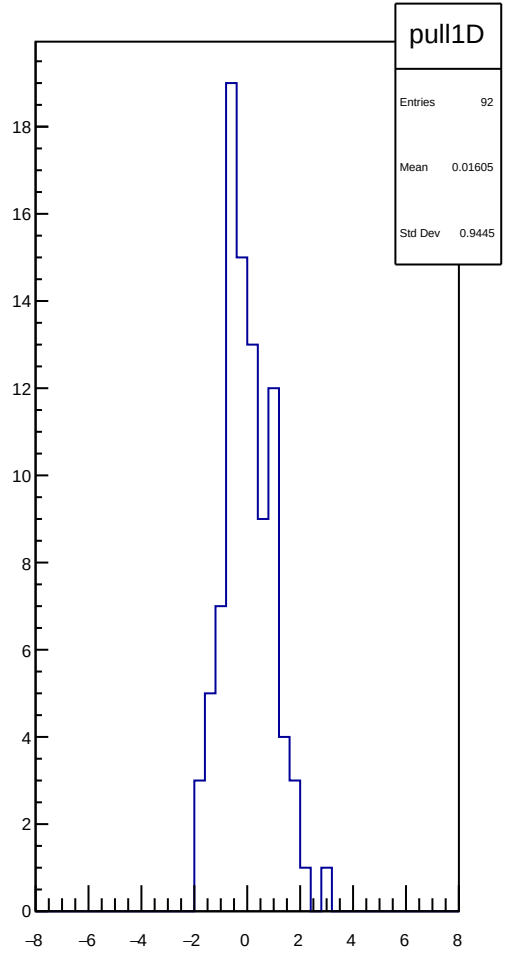

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.87e+05 / 91
p0 10.5 ± 0.008637
60
50
40
30
20
10

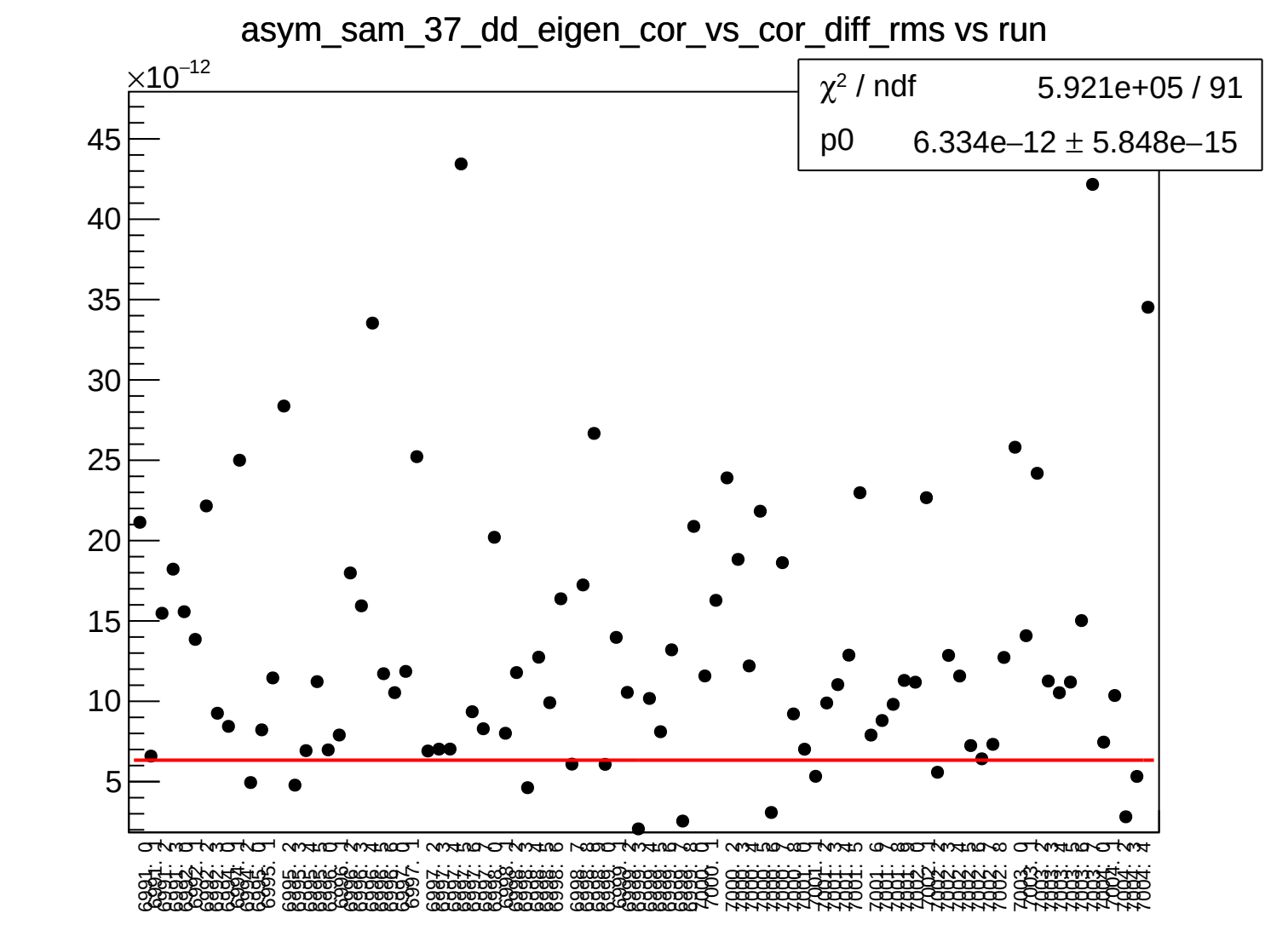

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.17 / 91
p0 −0.008059 ± 0.01221
pull
Entries 92
Mean −3.312
Std Dev 0

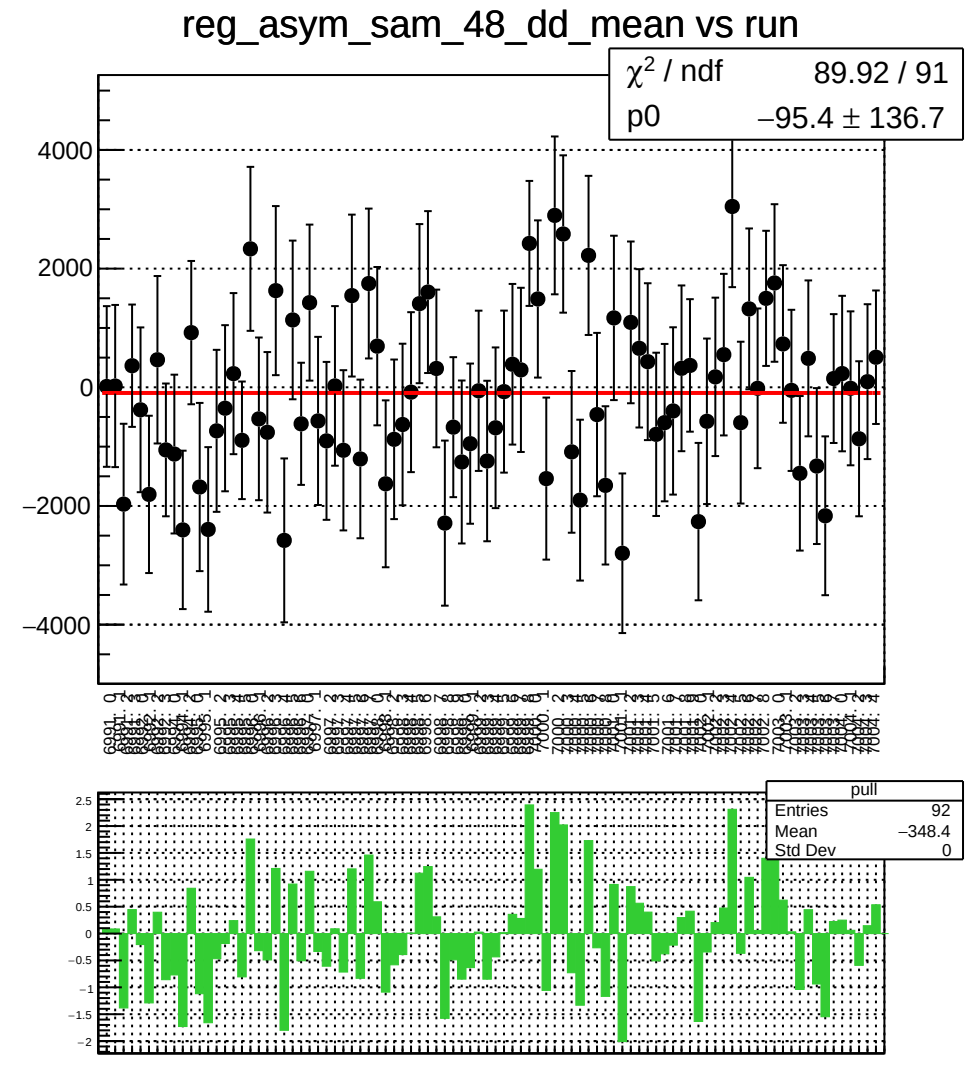

pull1D
Entries 92
Mean 0.07373
Std Dev 0.9479

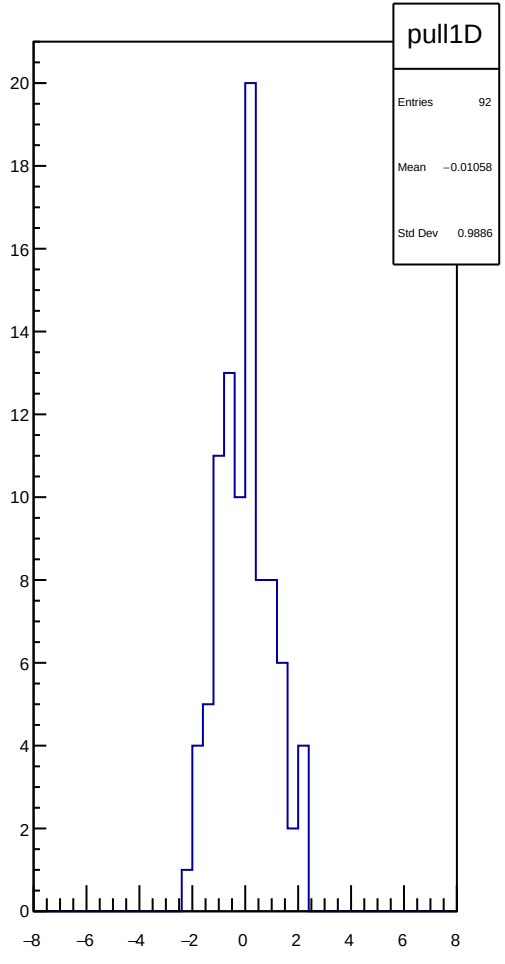

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.87e+05 / 91
p0 10.5 ± 0.008637
60
50
40
30
20
10

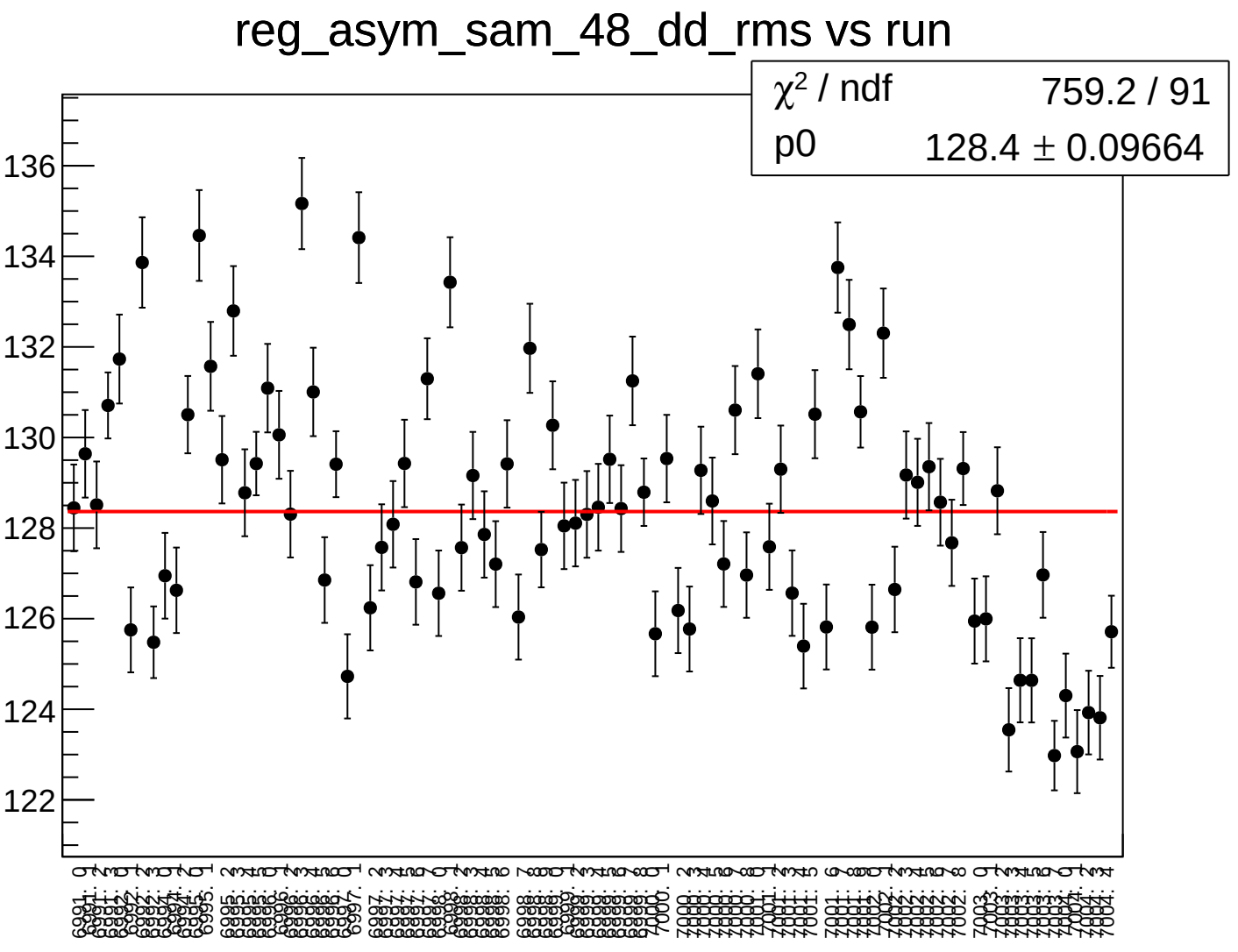

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.1 / 91
p0 −6.857e−15 ± 8.27e−15
pull
Entries 92
Mean 250.2
Std Dev 0

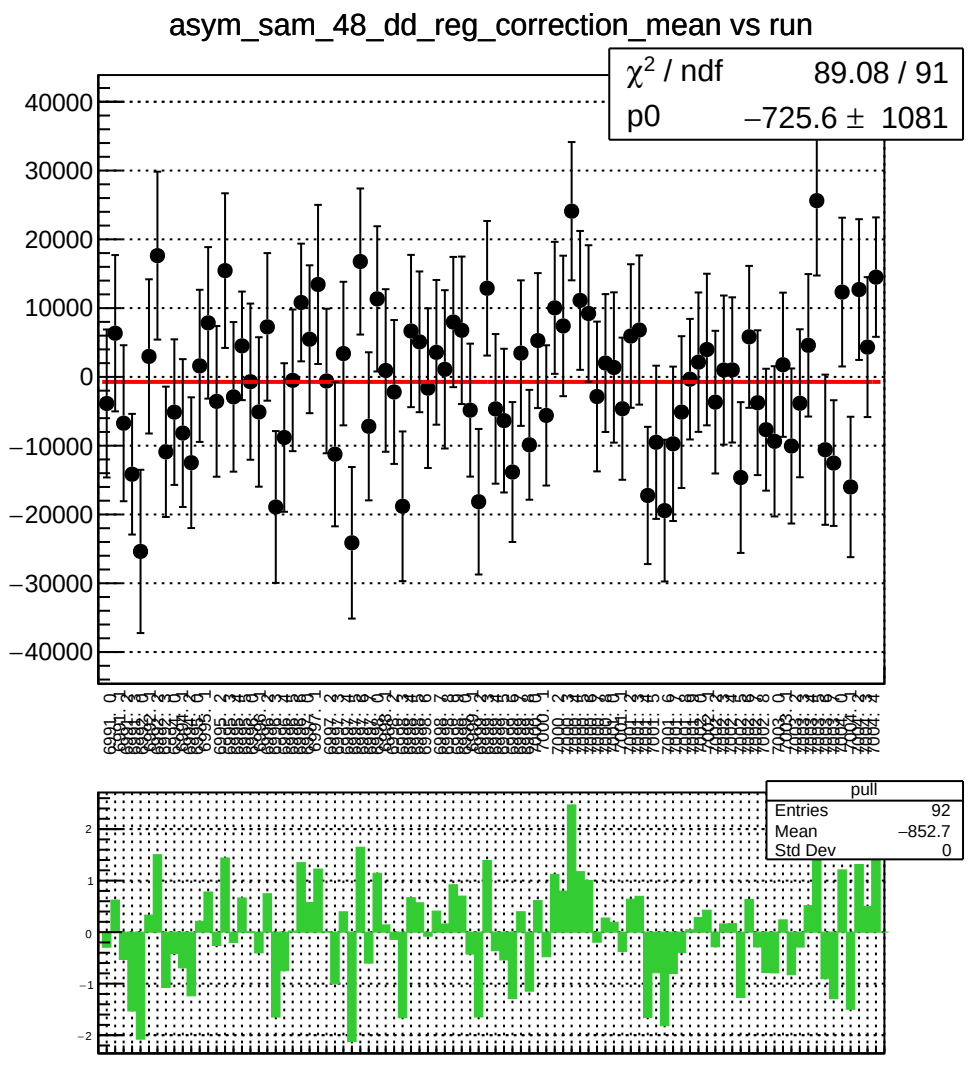

pull1D
Entries 92
Mean 0.01605
Std Dev 0.9445

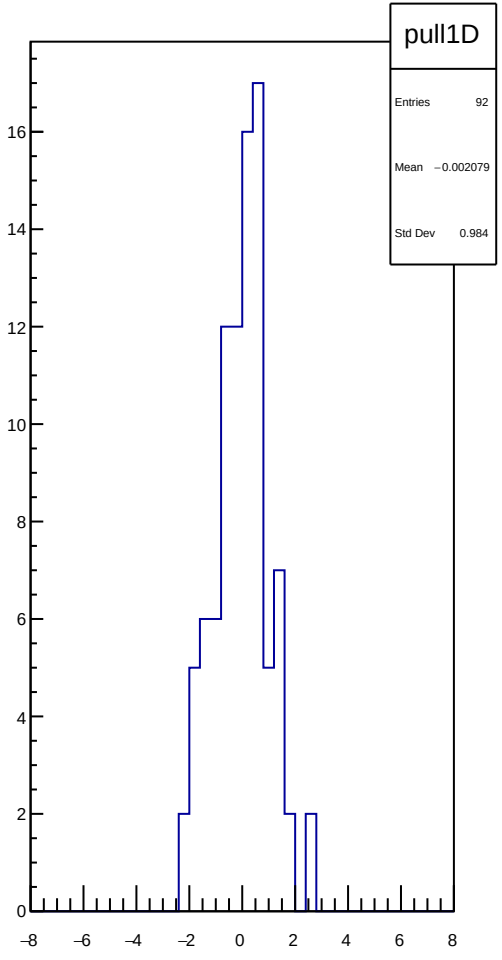

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.921e+05 / 91
p0 6.334e−12 ± 5.848e−15
45
40
35
30
25
20
15
10
5

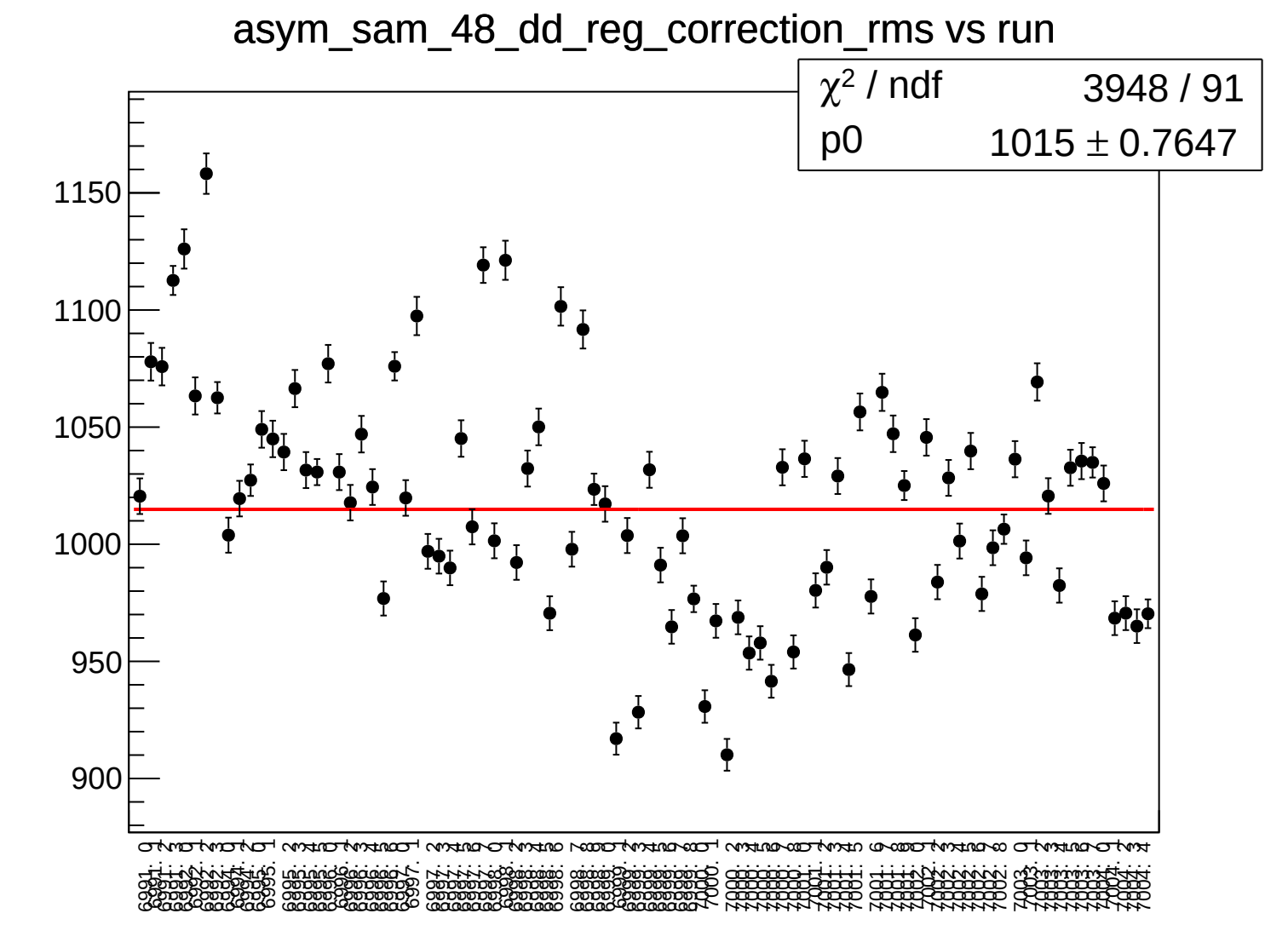

reg_asym_sam_48_dd_mean vs run
χ² / ndf 89.92 / 91
p0 −95.4 ± 136.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −348.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

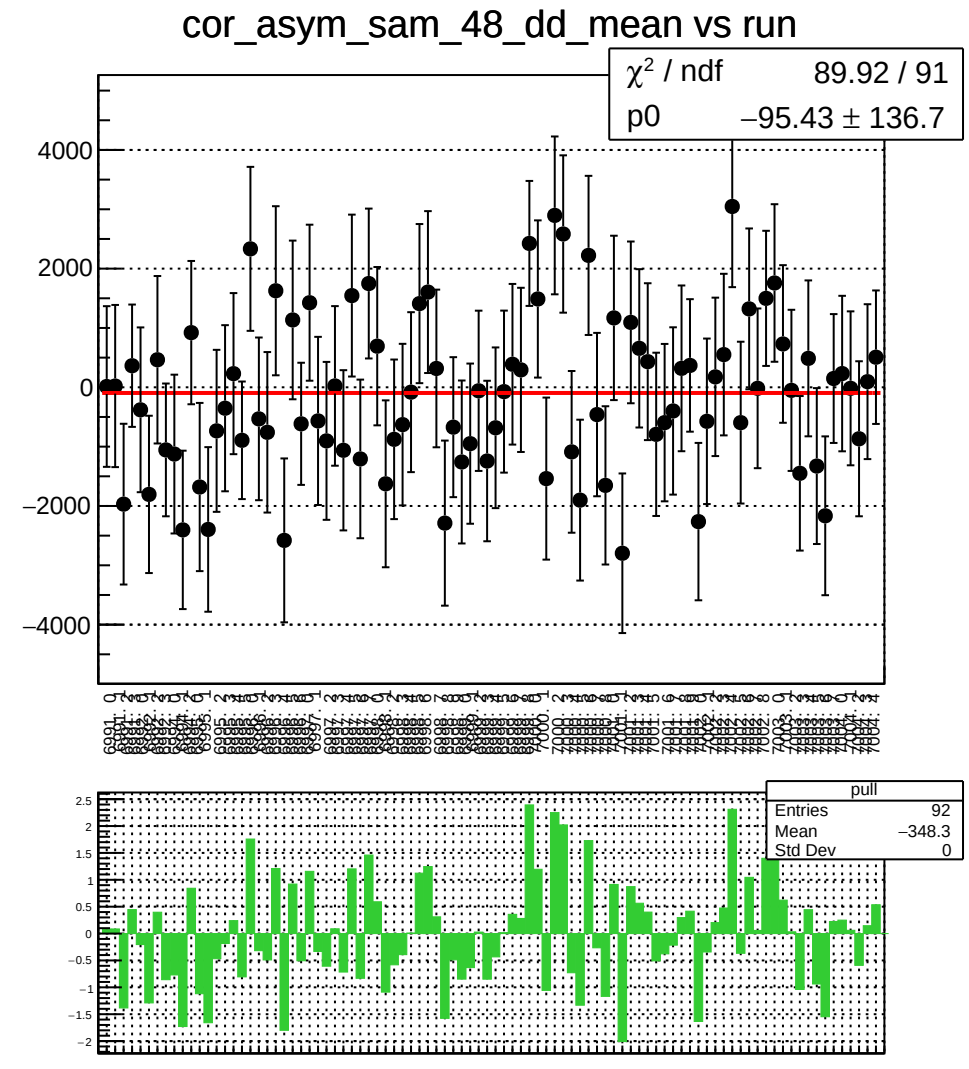

pull1D
Entries 92
Mean −0.01058
Std Dev 0.9886
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

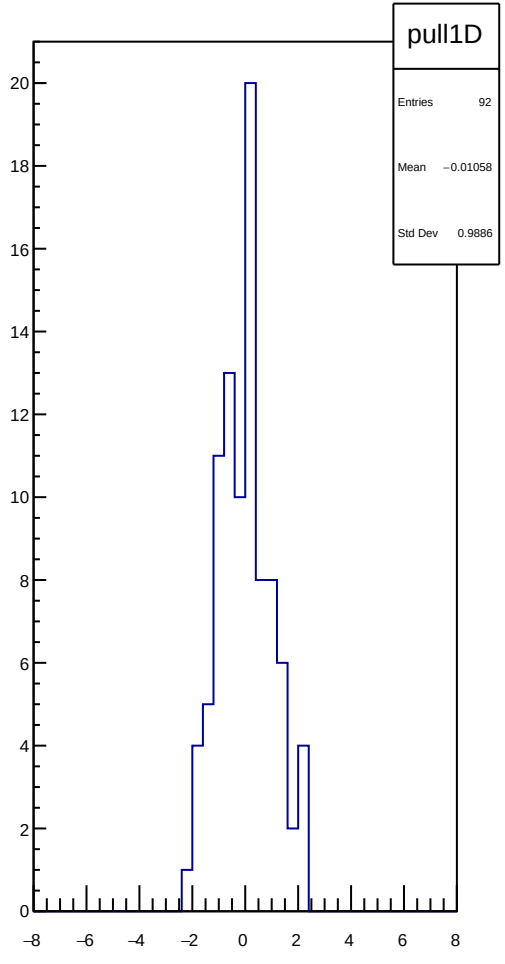

reg_asym_sam_48_dd_rms vs run
χ² / ndf 759.2 / 91
p0 128.4 ± 0.09664
136
134
132
130
128
126
124
122

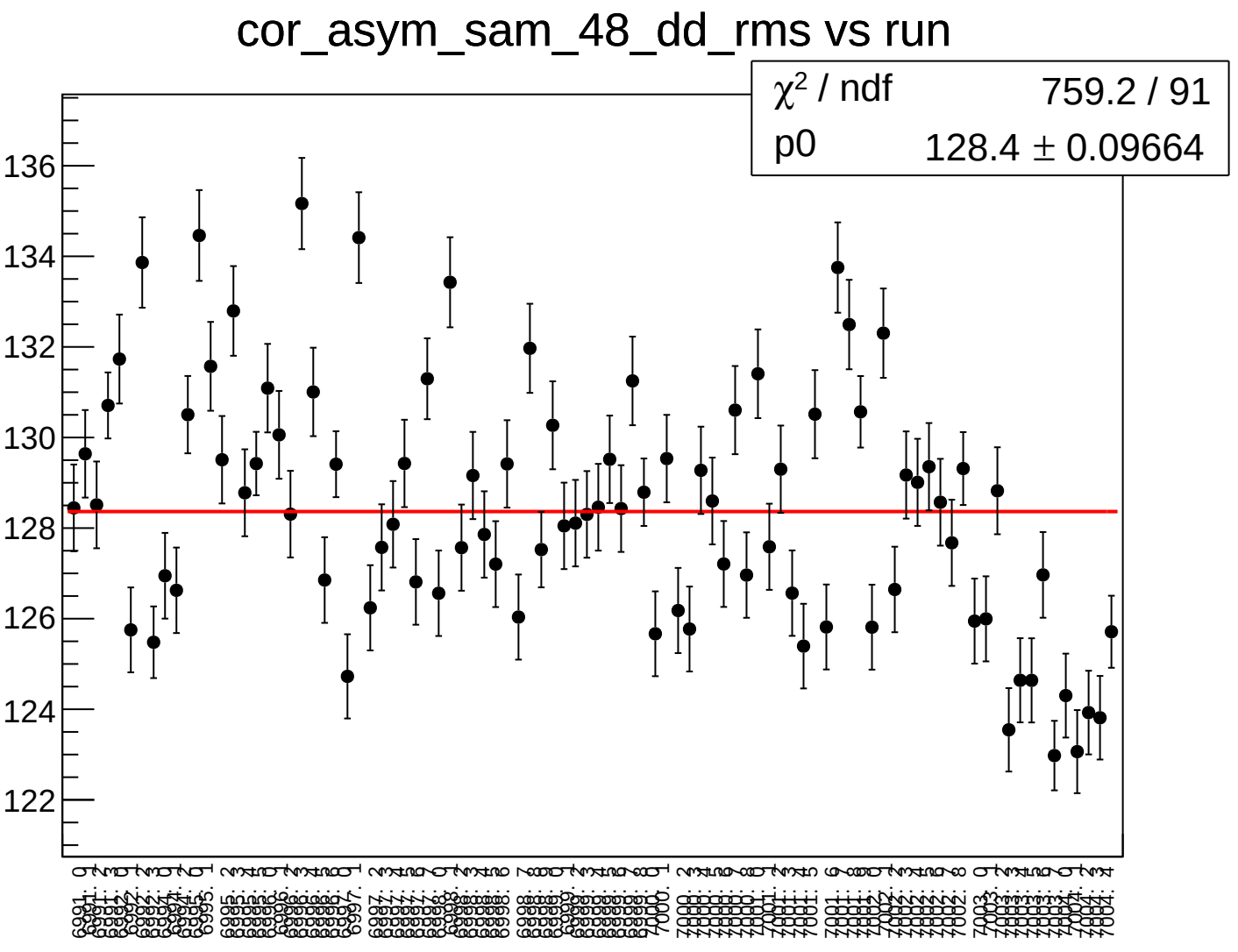

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 89.08 / 91
p0 −725.6 ± 1081
pull
Entries 92
Mean −852.7
Std Dev 0

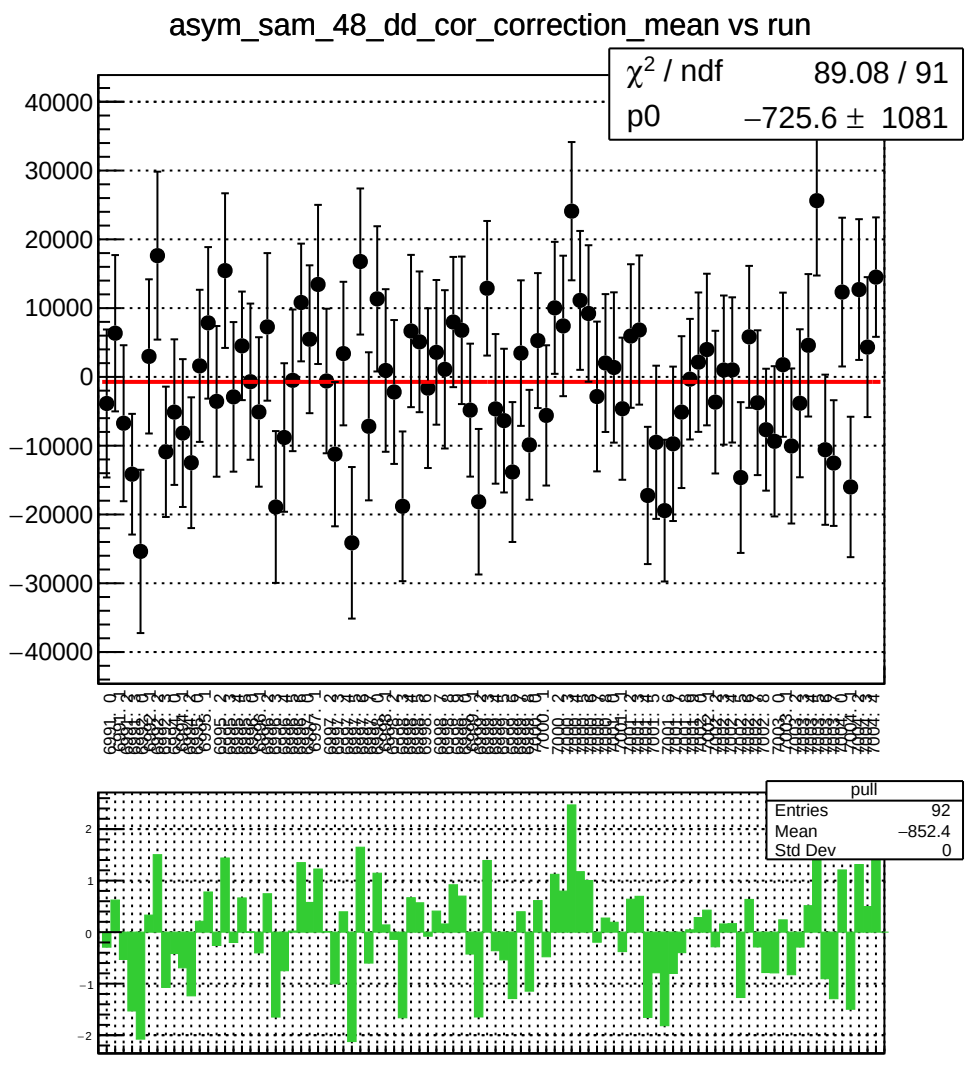

pull1D
Entries 92
Mean −0.002079
Std Dev 0.984

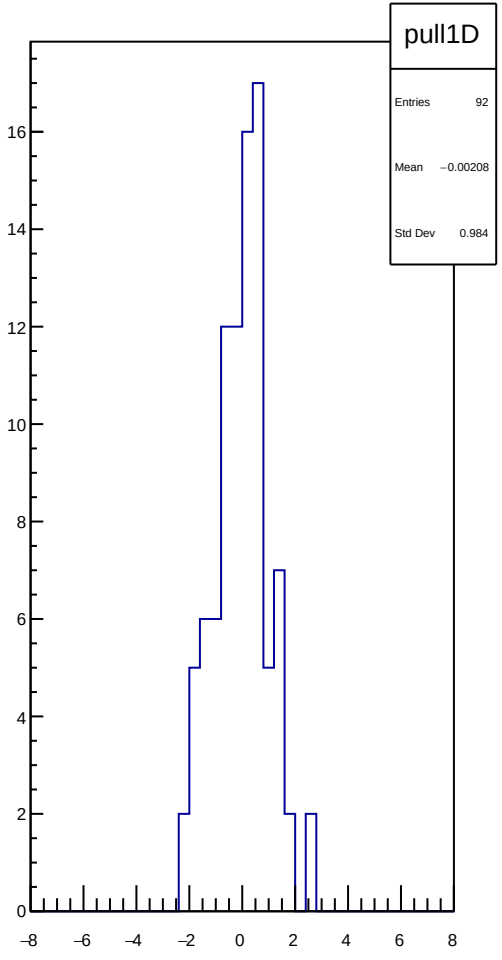

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 3948 / 91
p0 1015 ± 0.7647
1150
1100
1050
1000
950
900

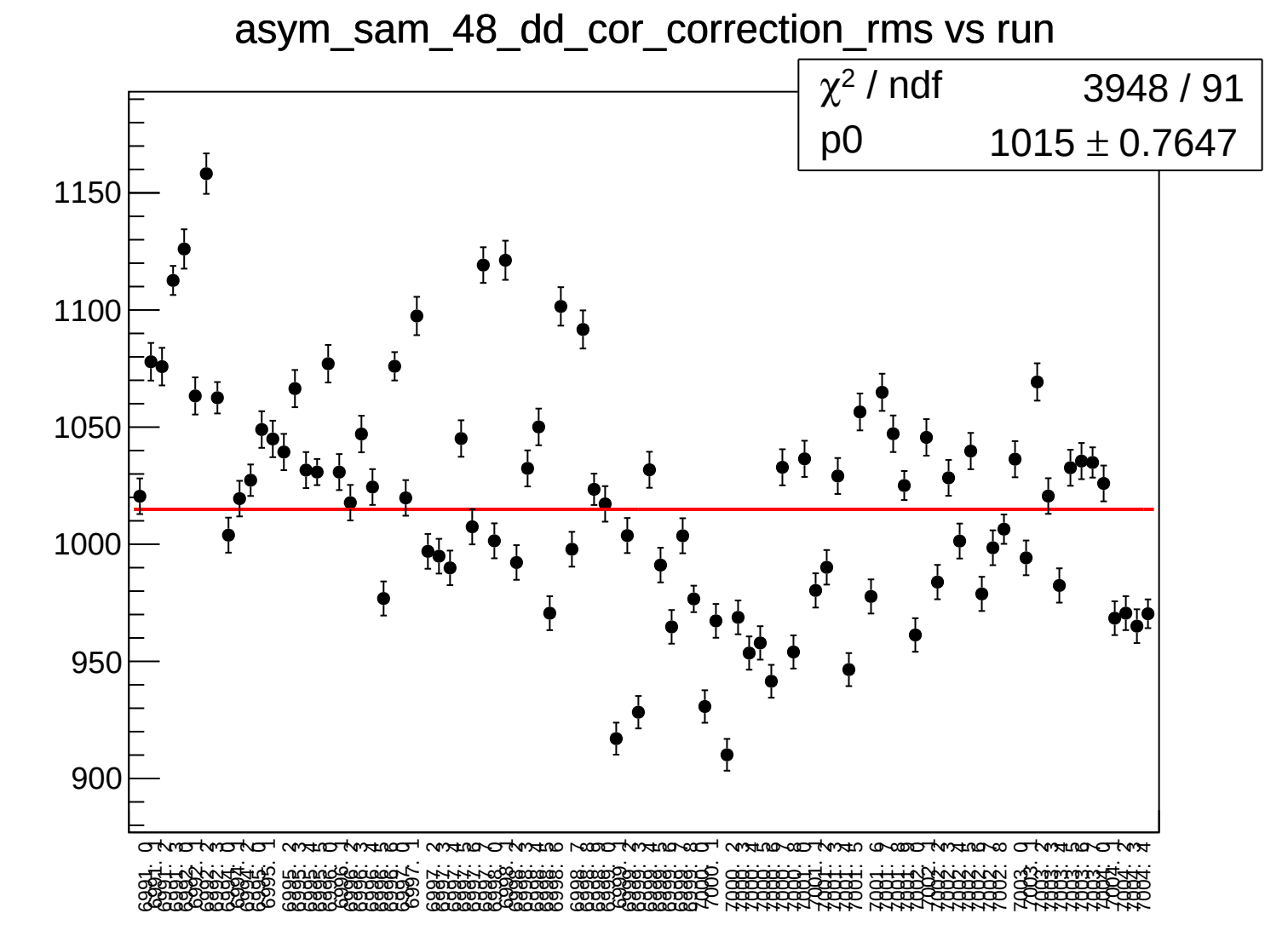

cor_asym_sam_48_dd_mean vs run
χ² / ndf 89.92 / 91
p0 −95.43 ± 136.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −348.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

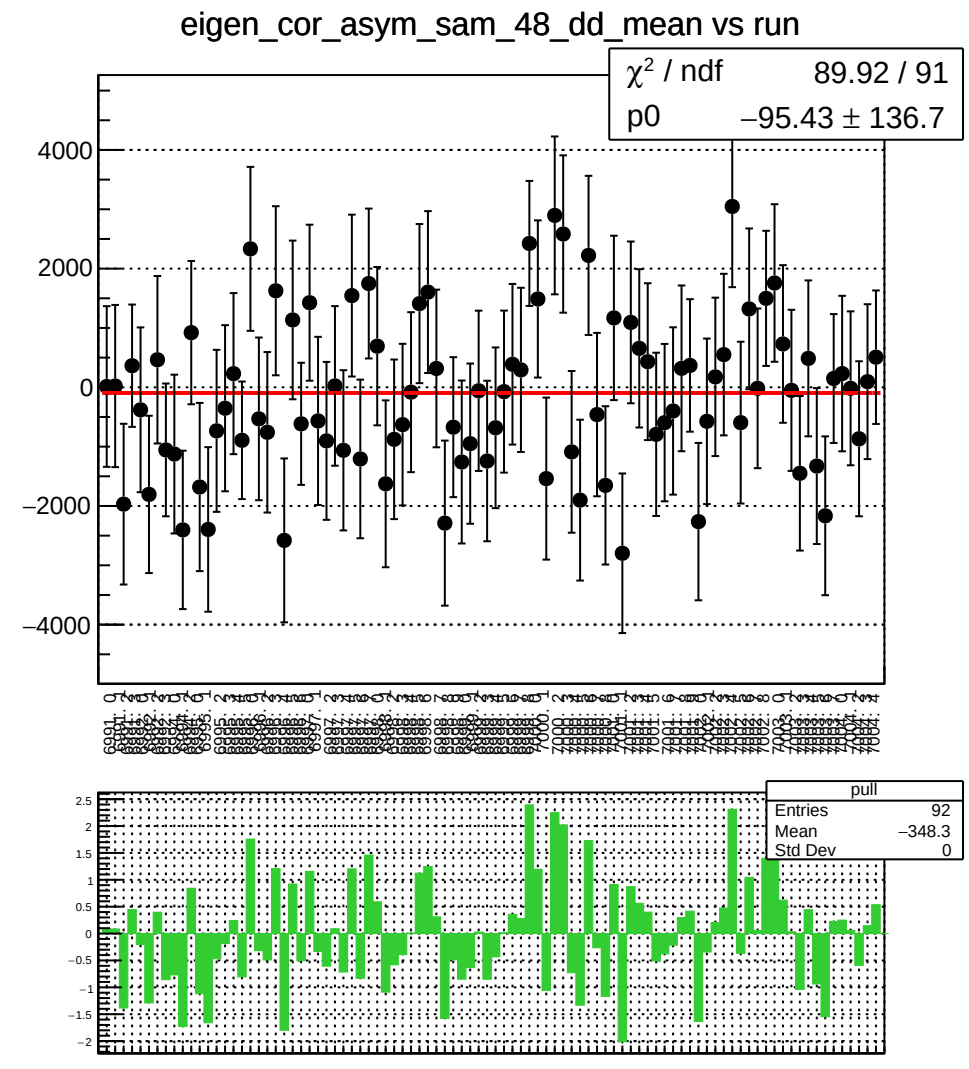

pull1D
Entries 92
Mean −0.01058
Std Dev 0.9886
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

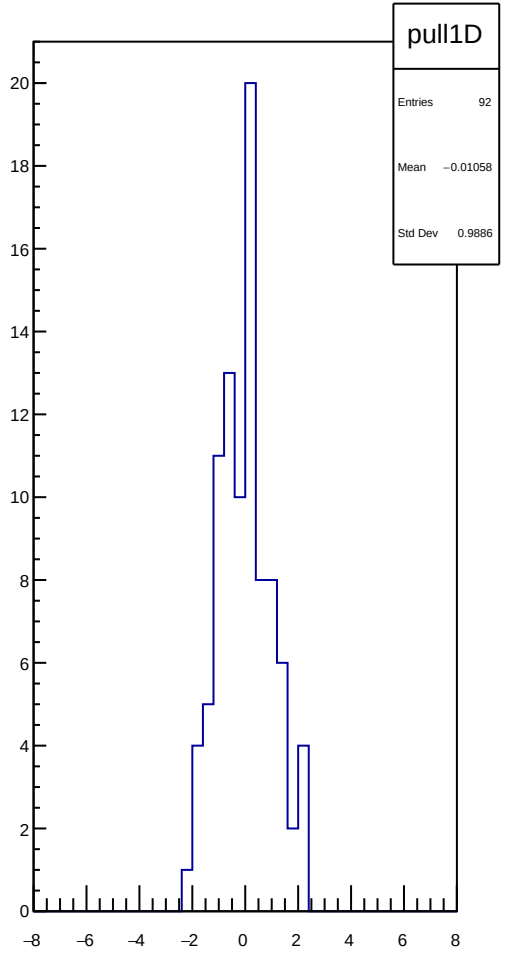

cor_asym_sam_48_dd_rms vs run
χ² / ndf 759.2 / 91
p0 128.4 ± 0.09664
136
134
132
130
128
126
124
122

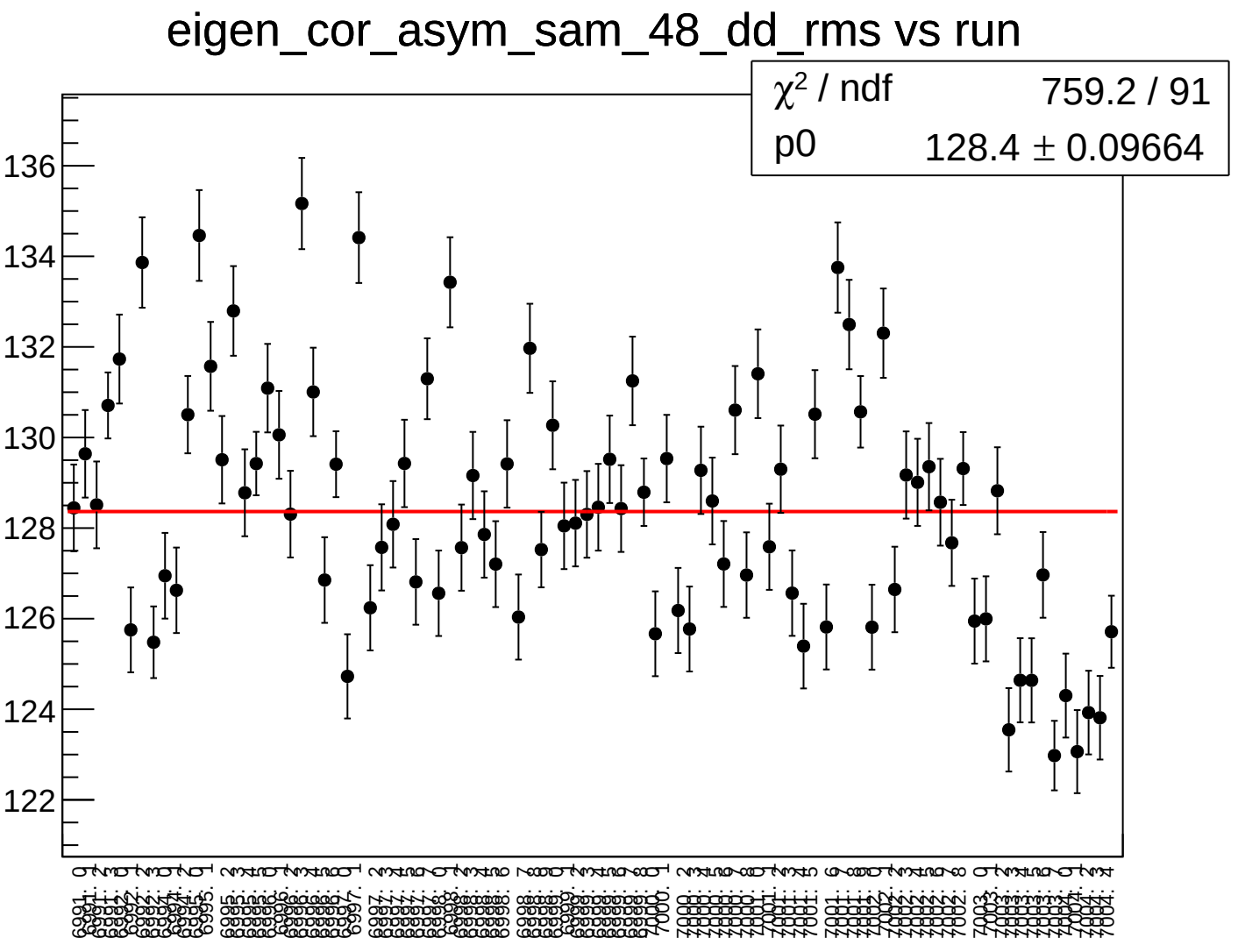

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 89.08 / 91
p0 −725.6 ± 1081
pull
Entries 92
Mean −852.4
Std Dev 0

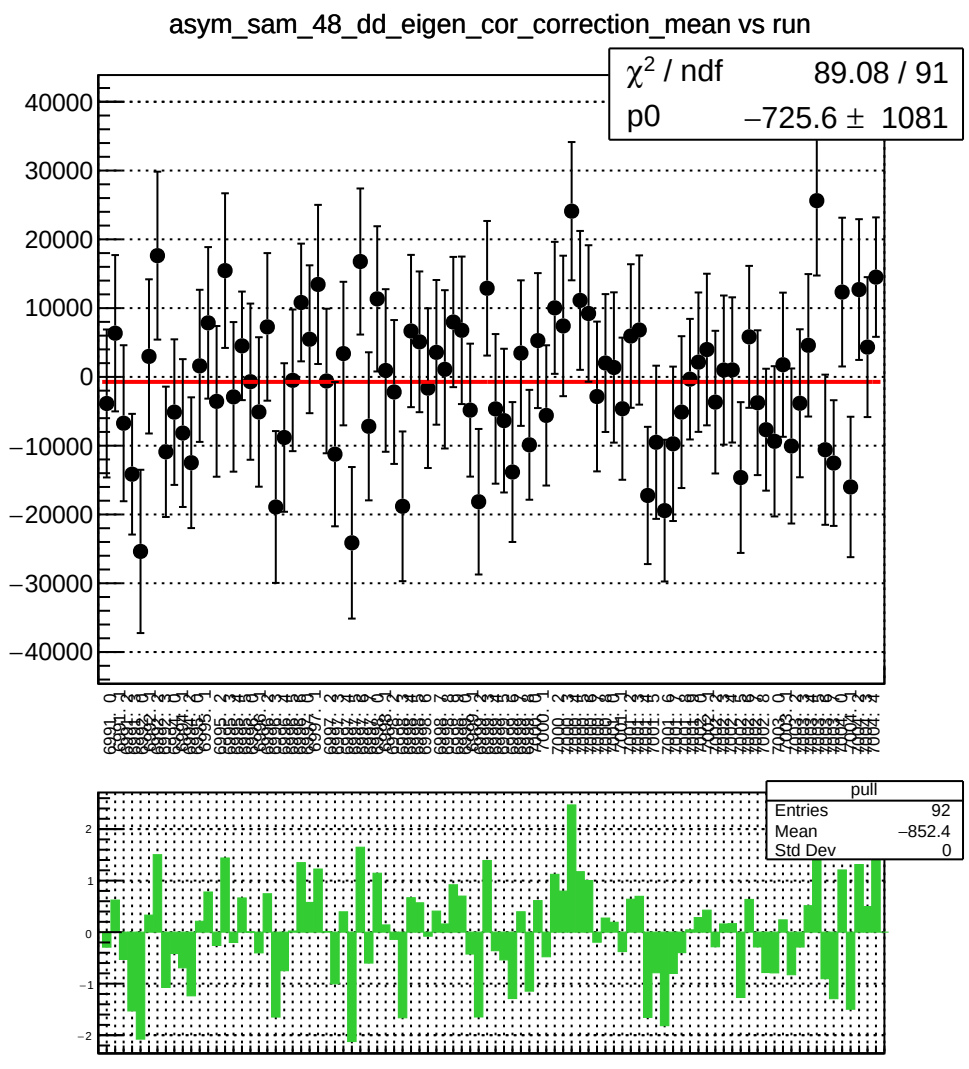

pull1D
Entries 92
Mean −0.00208
Std Dev 0.984

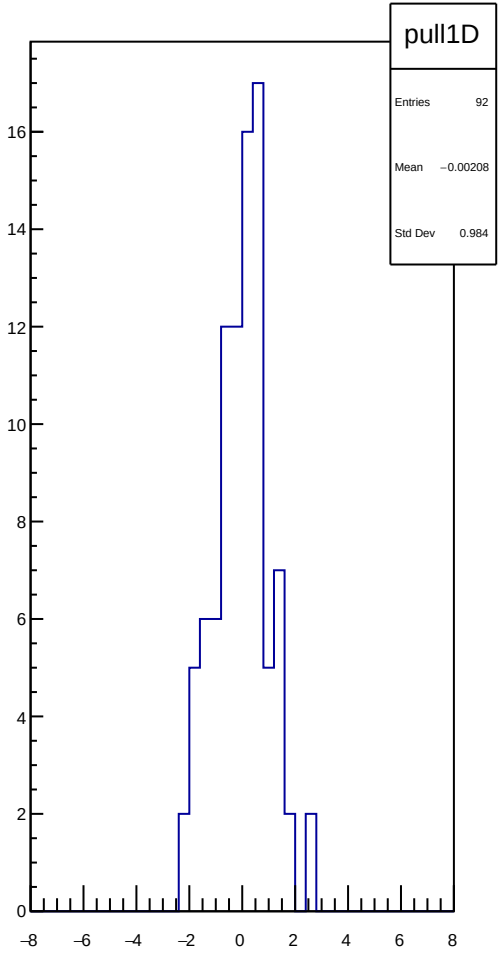

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 3948 / 91
p0 1015 ± 0.7647
1150
1100
1050
1000
950
900

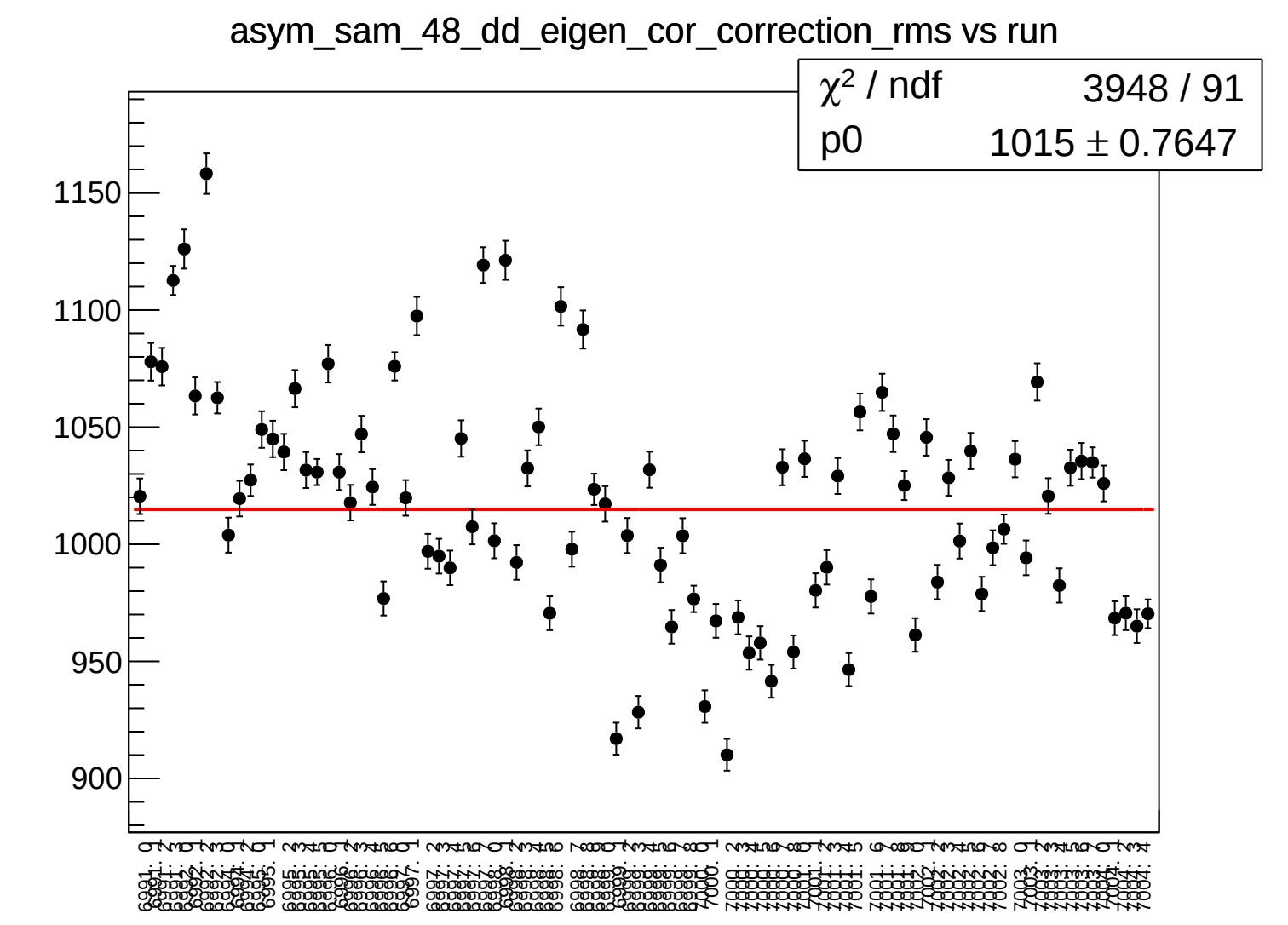

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 89.92 / 91
p0 −95.43 ± 136.7
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −348.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

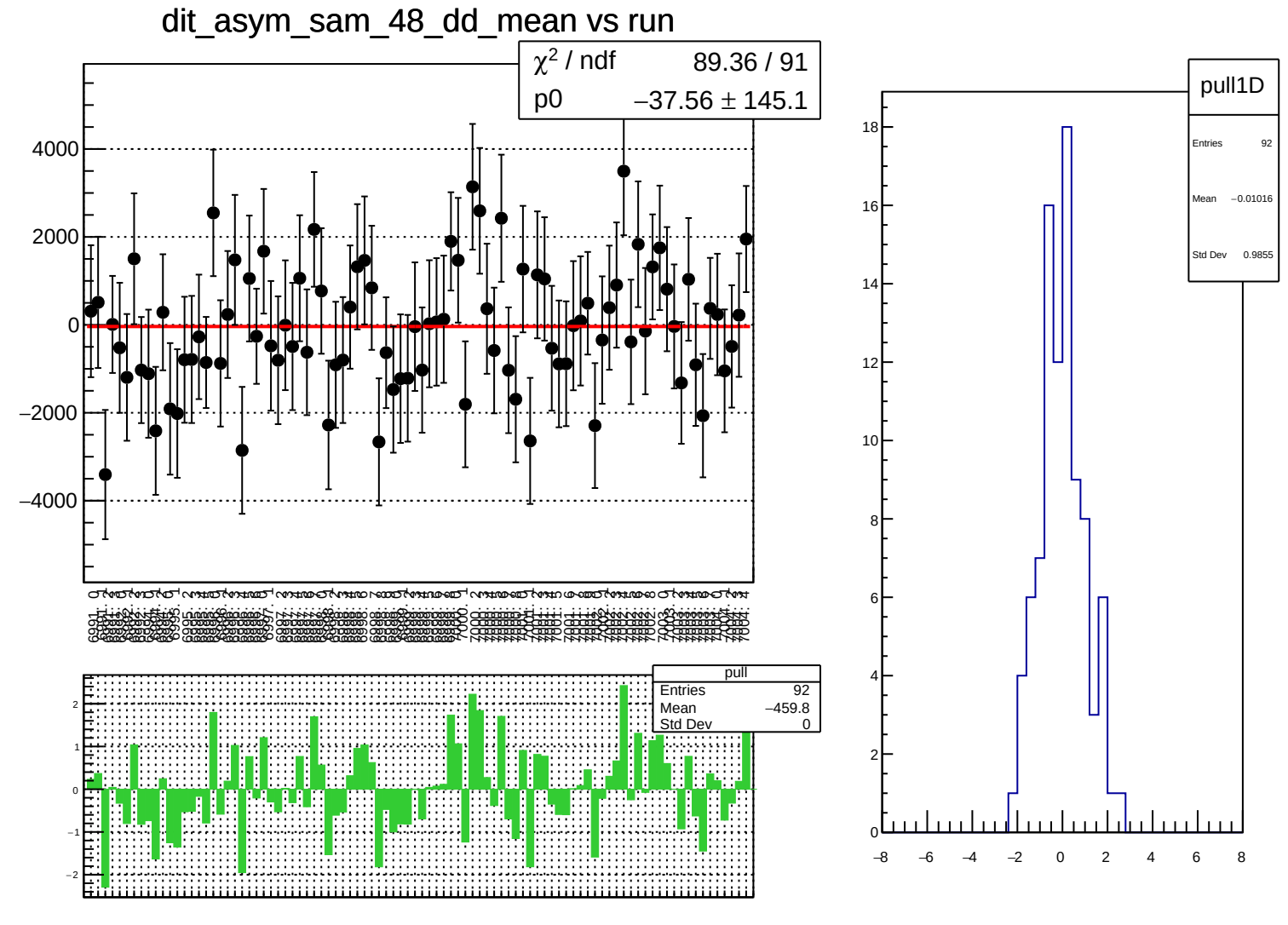

pull1D
Entries 92
Mean −0.01058
Std Dev 0.9886
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

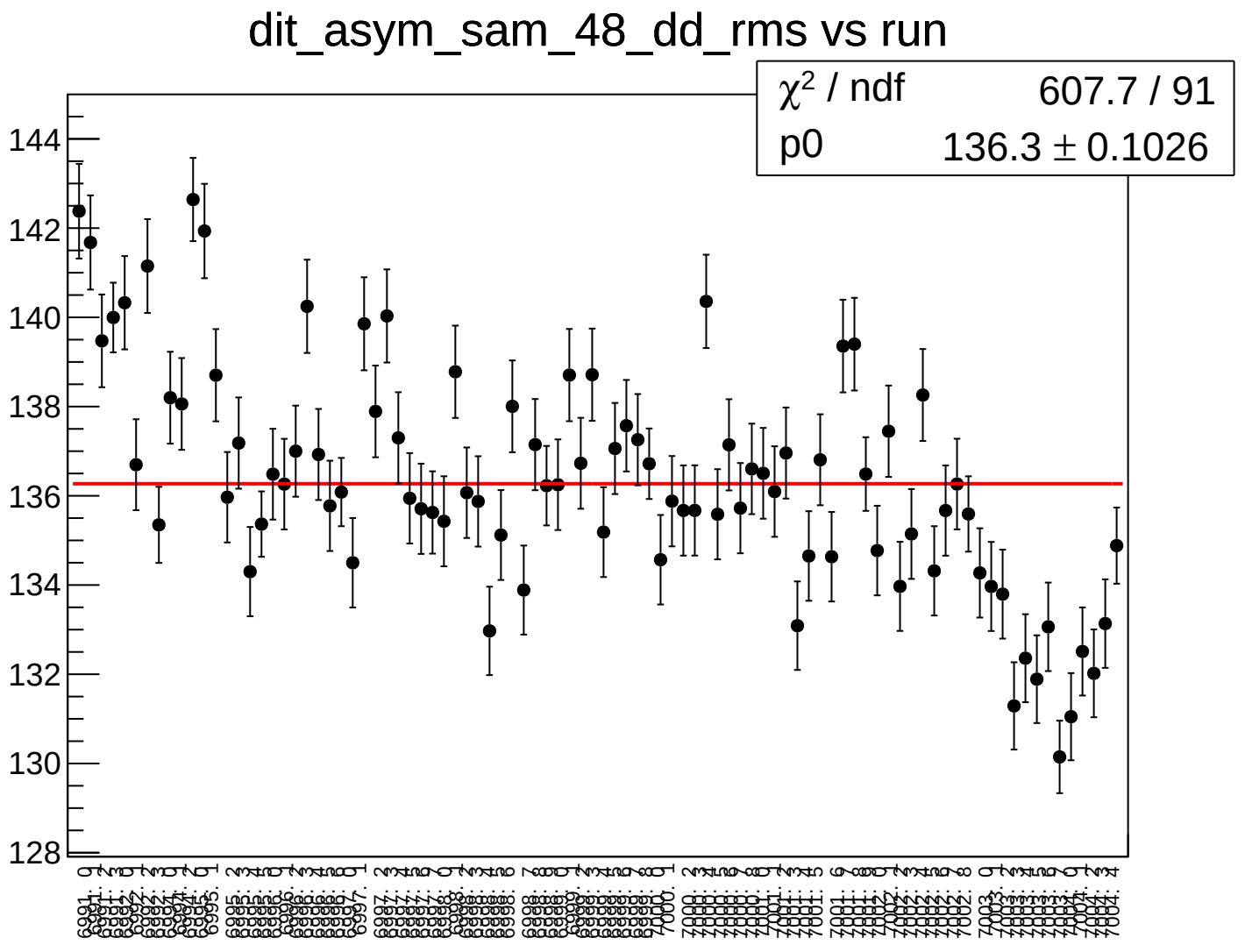

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 759.2 / 91
p0 128.4 ± 0.09664
136
134
132
130
128
126
124
122

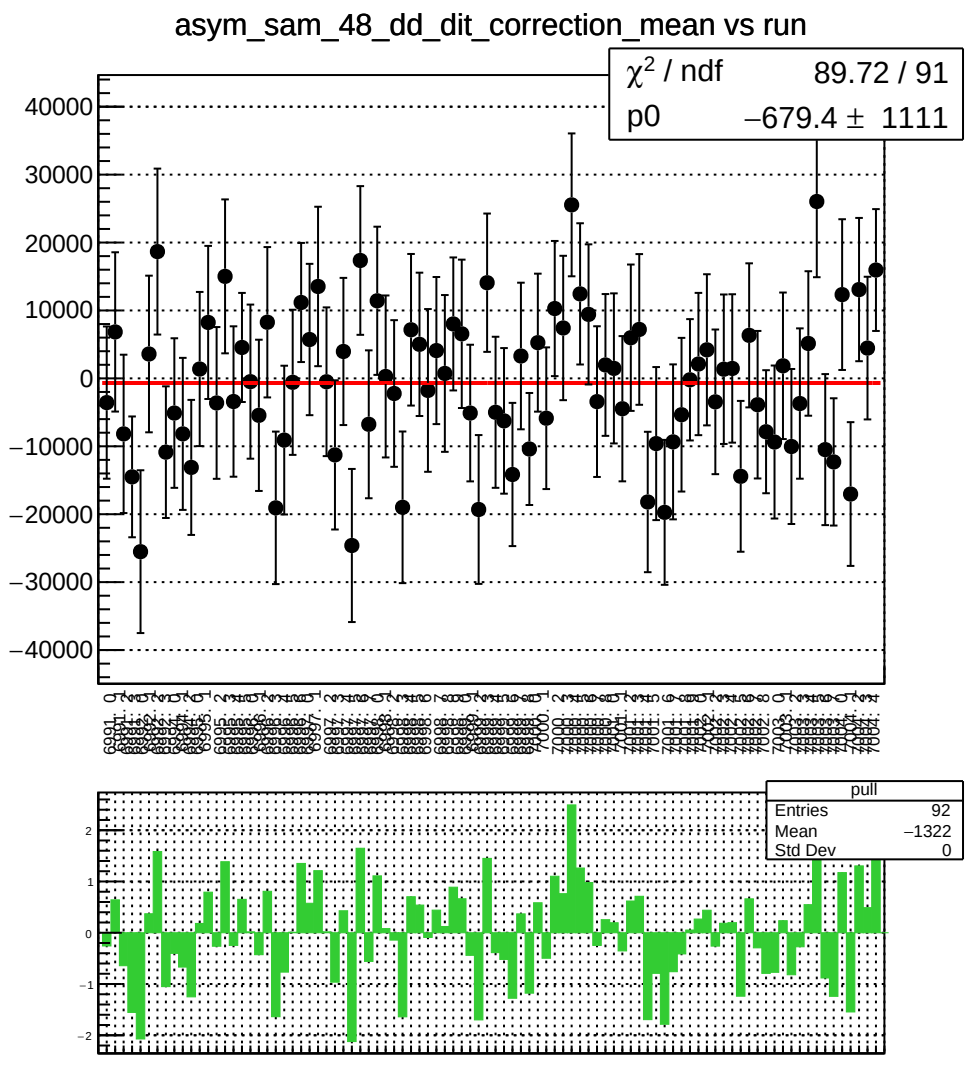

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.08 / 91
p0 −725.6 ± 1081
pull
Entries 92
Mean −852.4
Std Dev 0

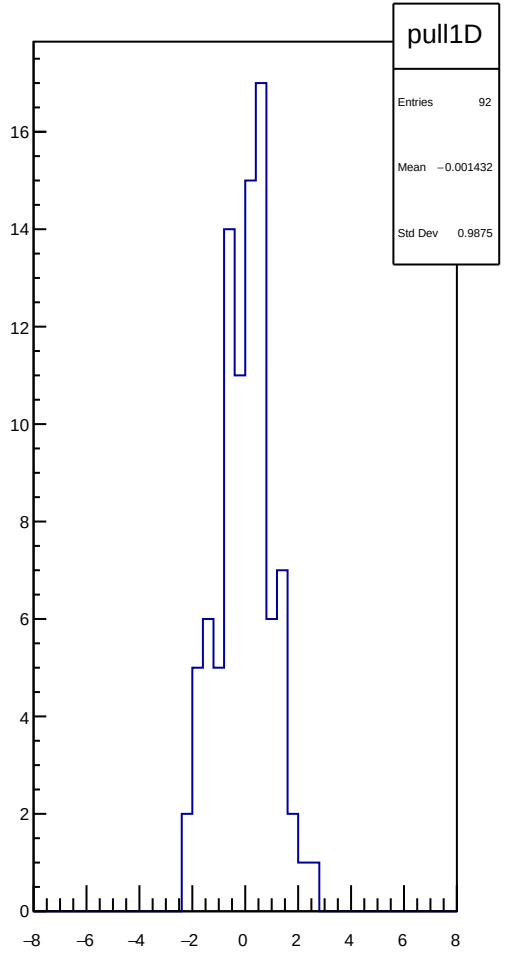

pull1D
Entries 92
Mean −0.00208
Std Dev 0.984

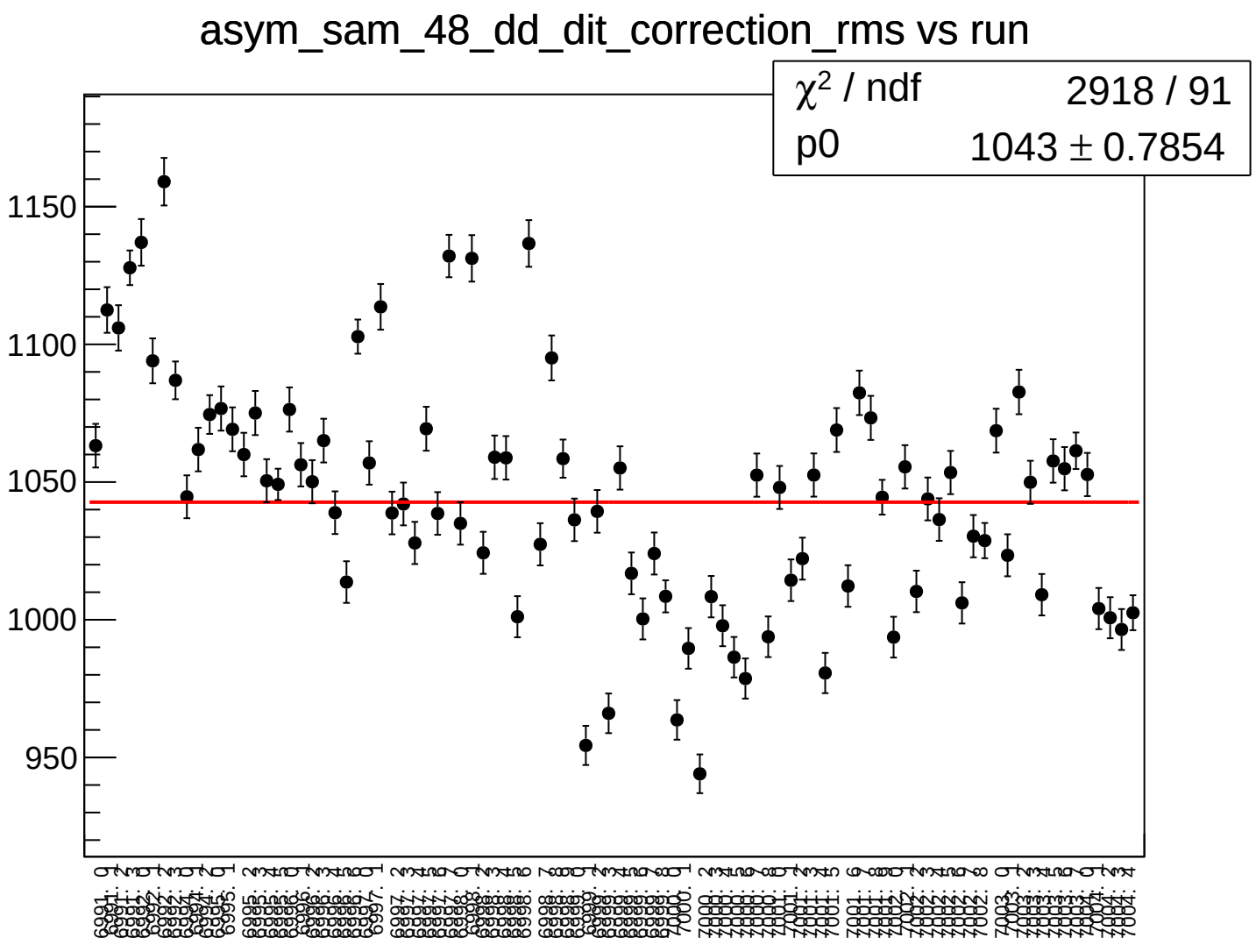

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3948 / 91
p0 1015 ± 0.7647
1150
1100
1050
1000
950
900

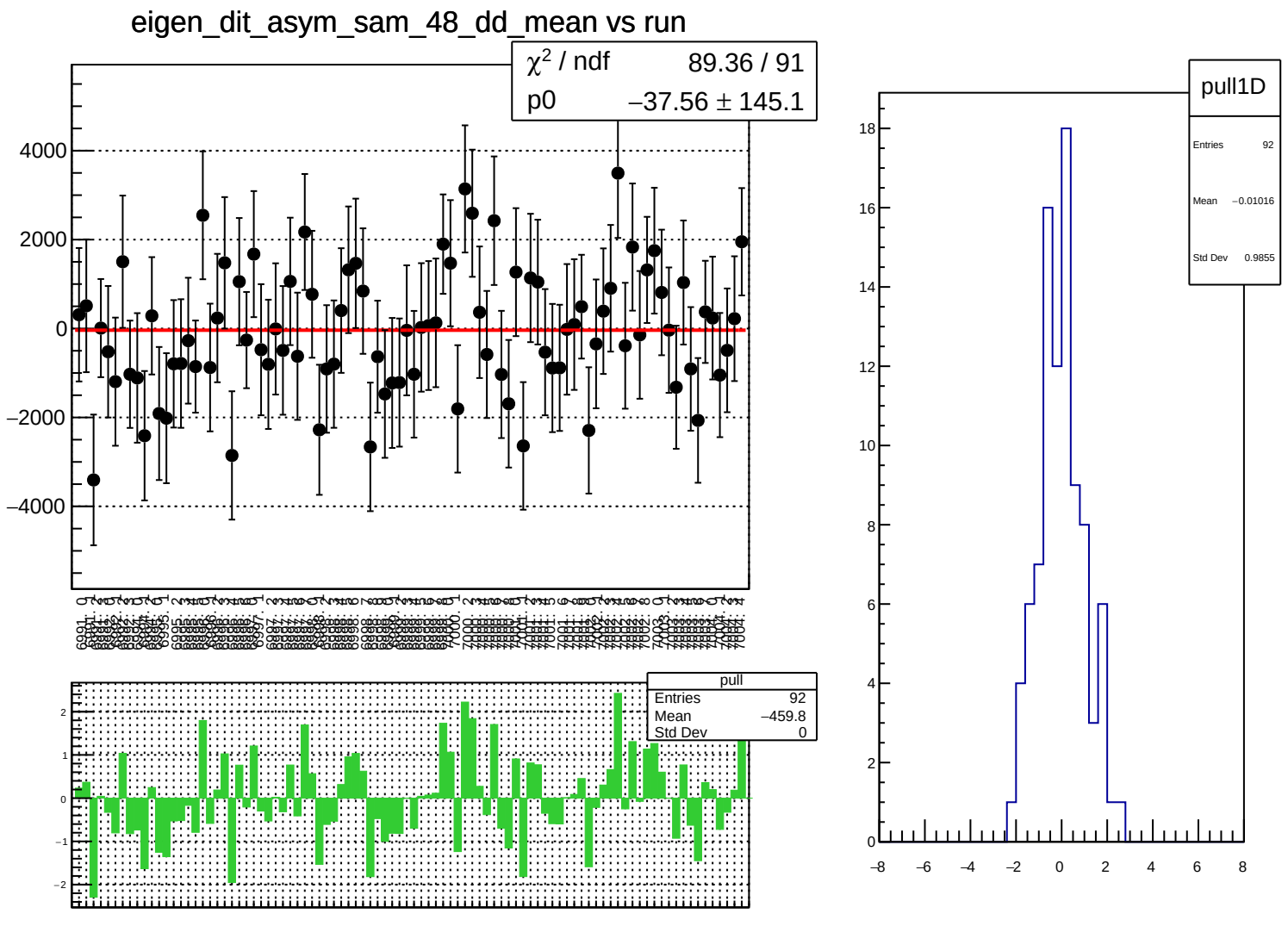

dit_asym_sam_48_dd_mean vs run
χ² / ndf 89.36 / 91
p0 −37.56 ± 145.1
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −459.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01016
Std Dev 0.9855
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

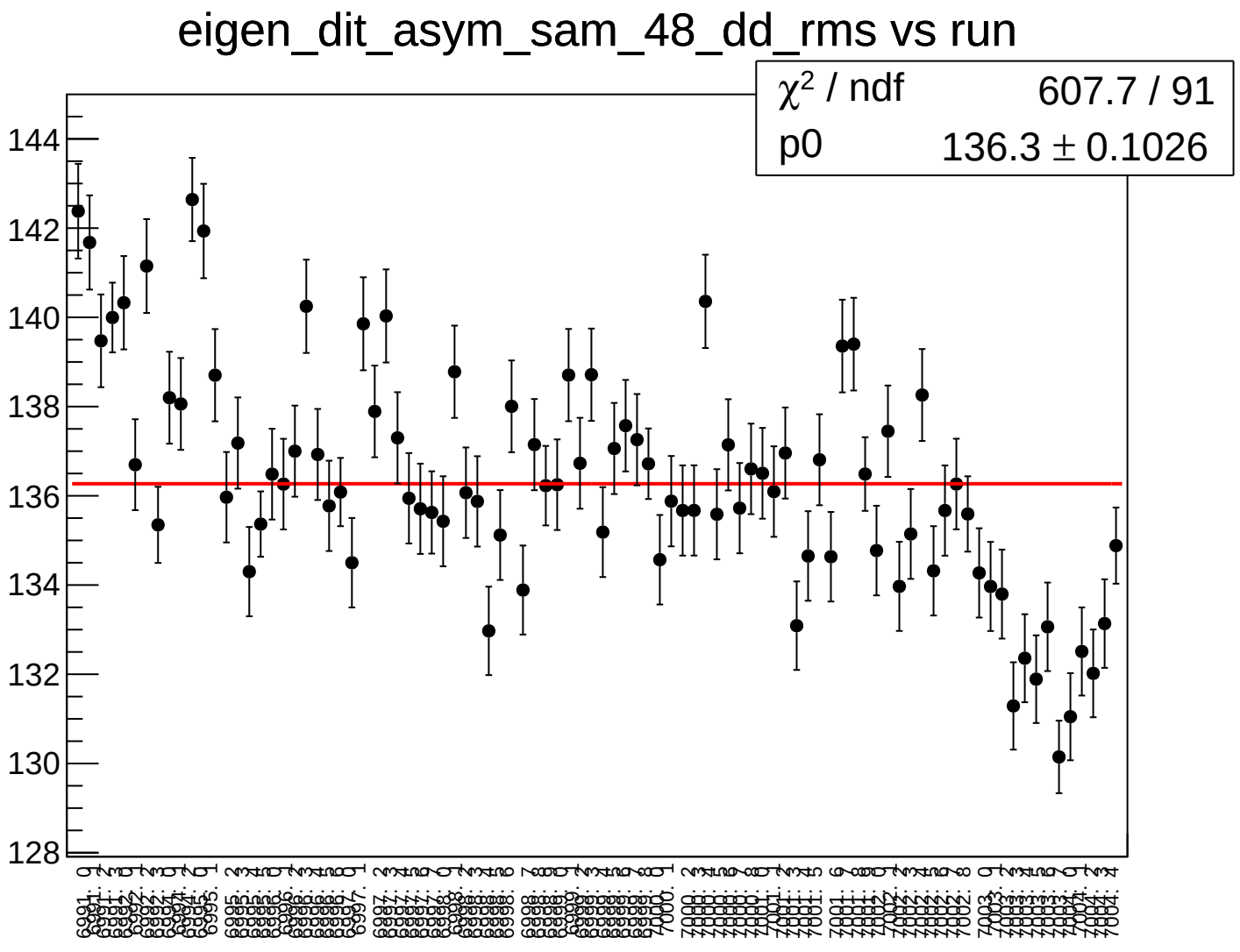

dit_asym_sam_48_dd_rms vs run
χ² / ndf 607.7 / 91
p0 136.3 ± 0.1026
144
142
140
138
136
134
132
130
128

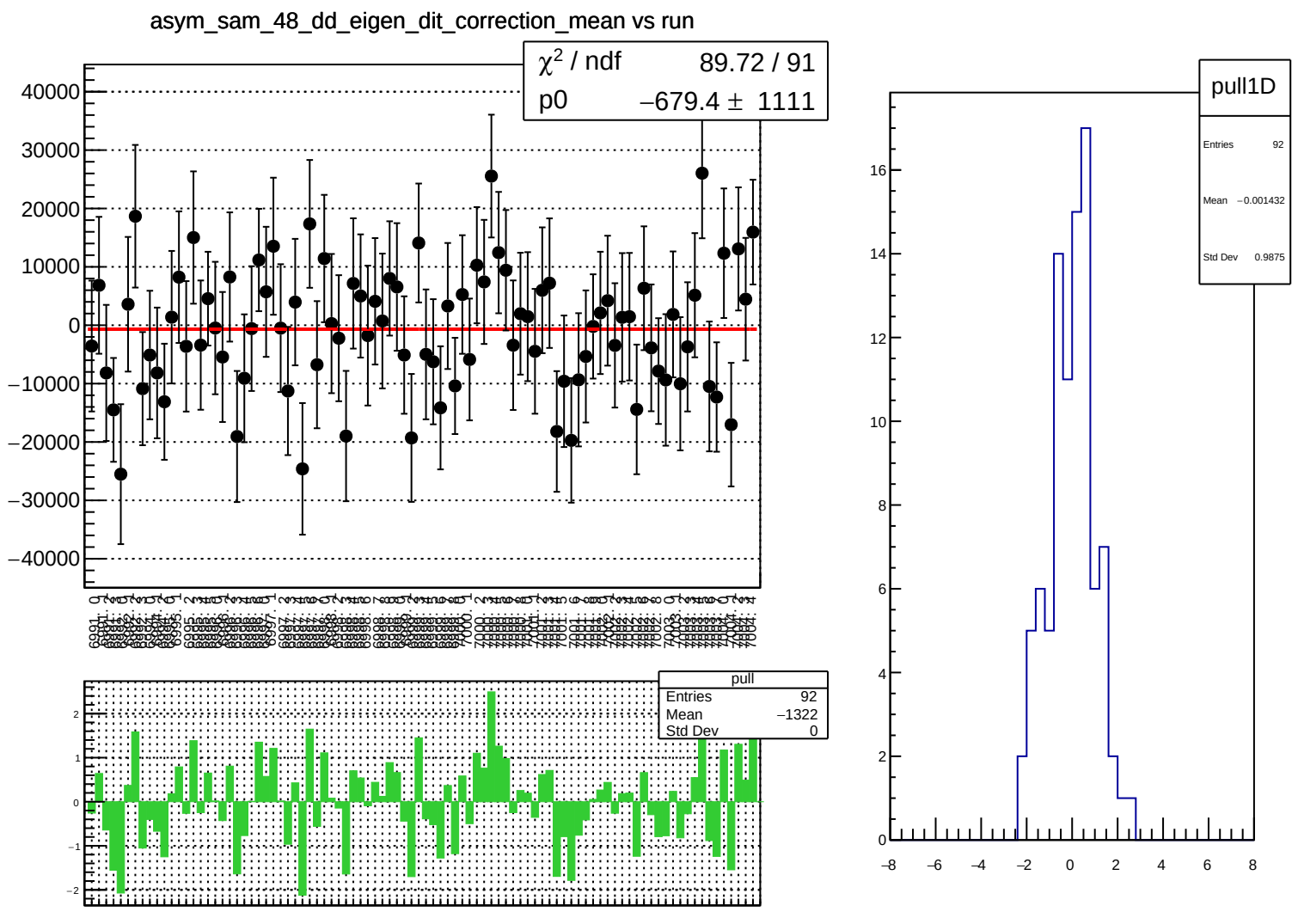

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 89.72 / 91
p0 −679.4 ± 1111
pull
Entries 92
Mean −1322
Std Dev 0

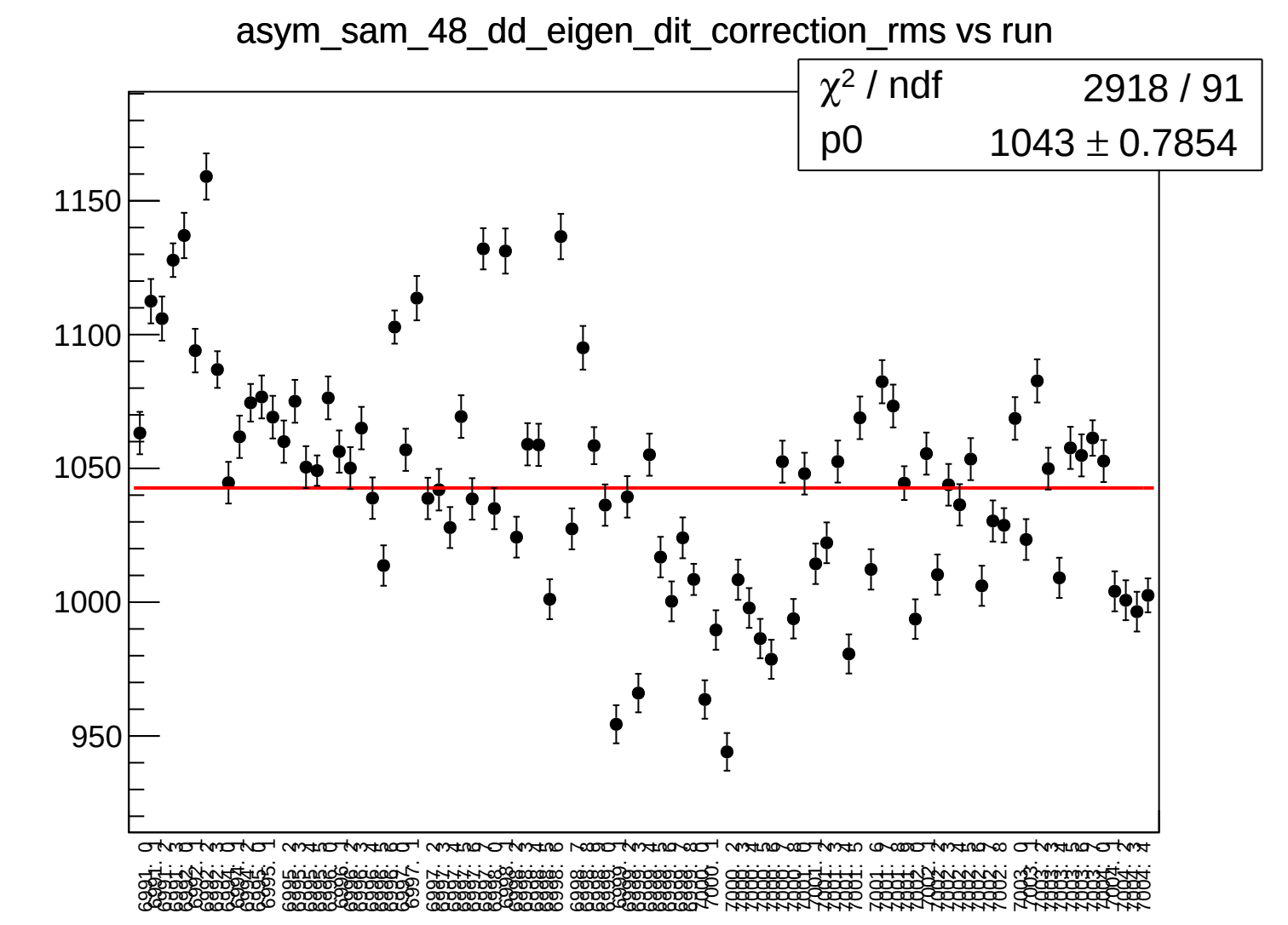

pull1D
Entries 92
Mean −0.001432
Std Dev 0.9875

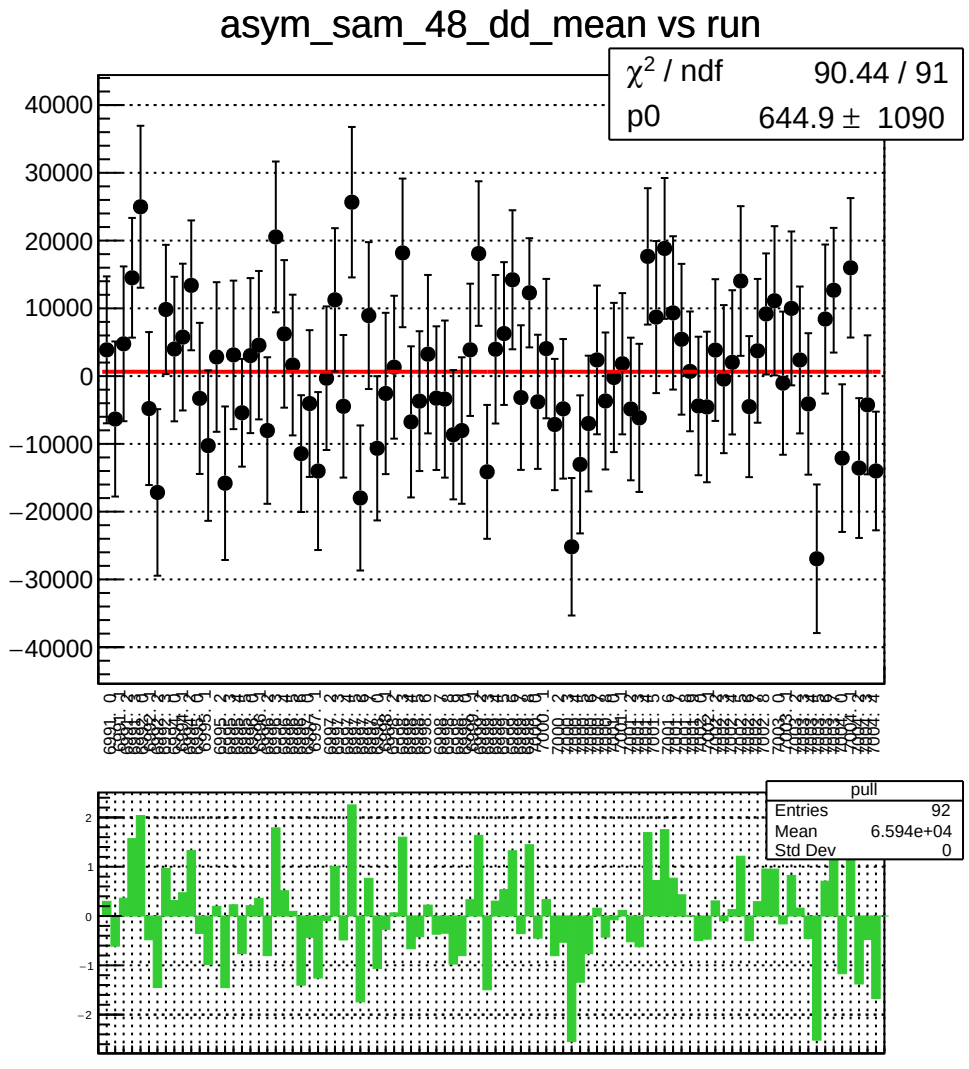

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2918 / 91
p0 1043 ± 0.7854
1150
1100
1050
1000
950

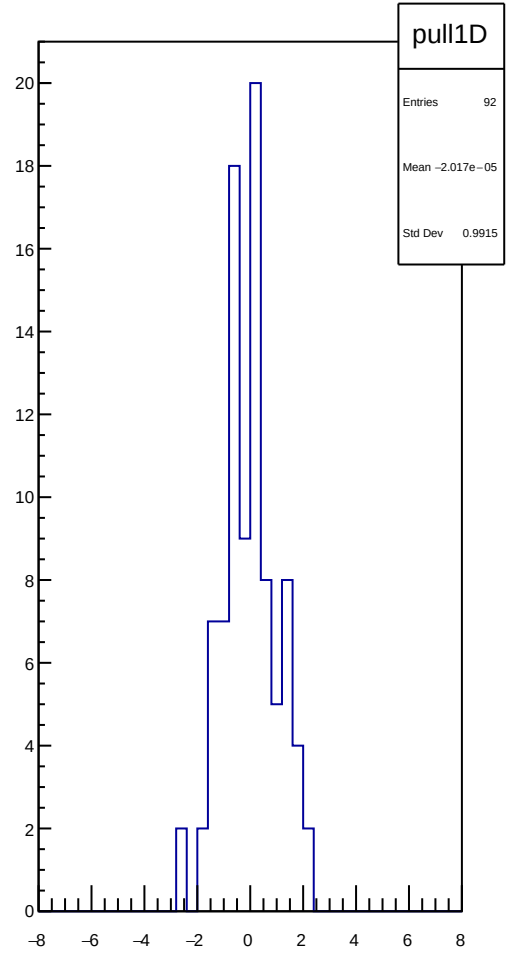

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 89.36 / 91
p0 −37.56 ± 145.1
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −459.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01016
Std Dev 0.9855
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

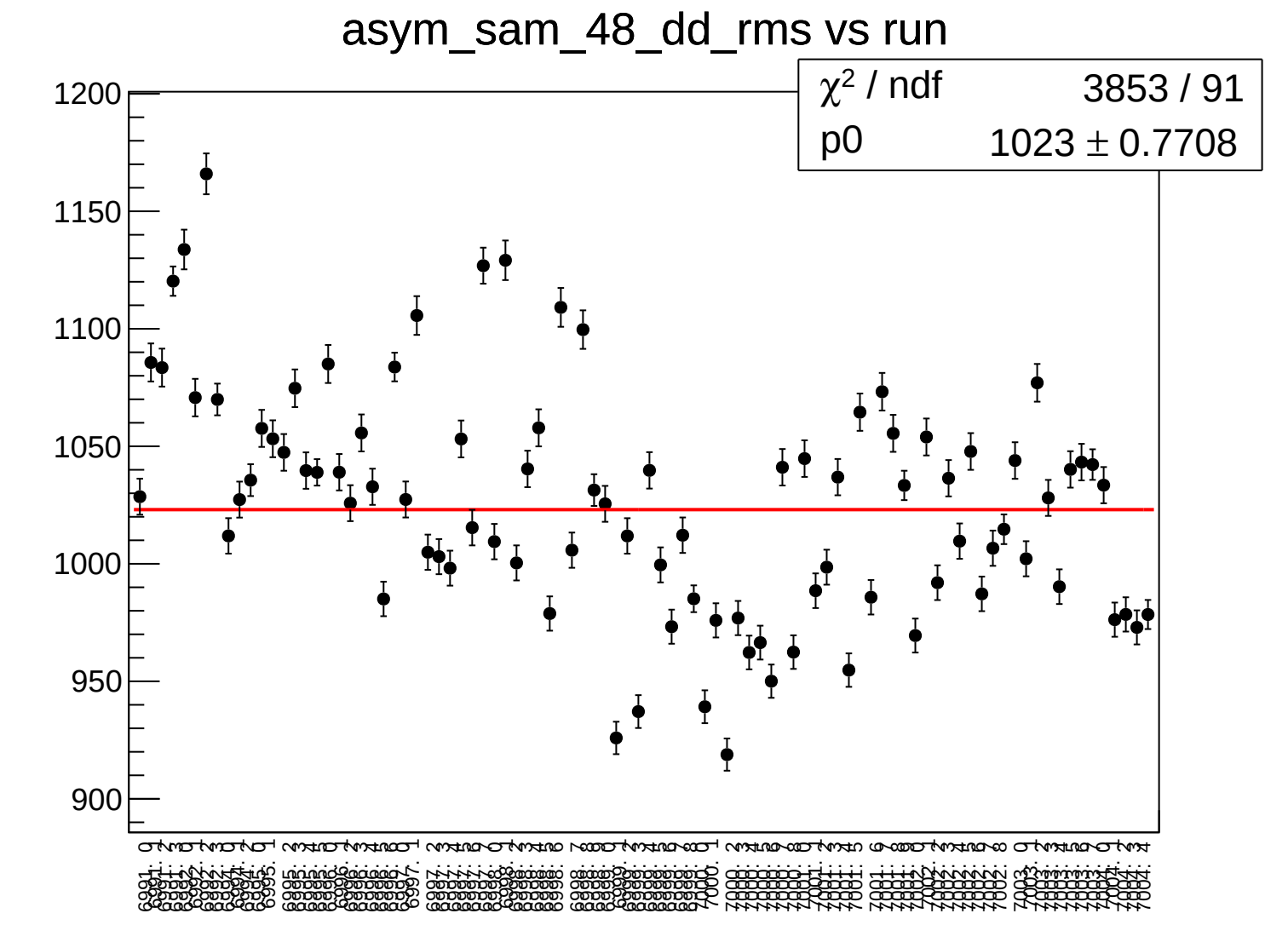

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 607.7 / 91
p0 136.3 ± 0.1026
144
142
140
138
136
134
132
130
128

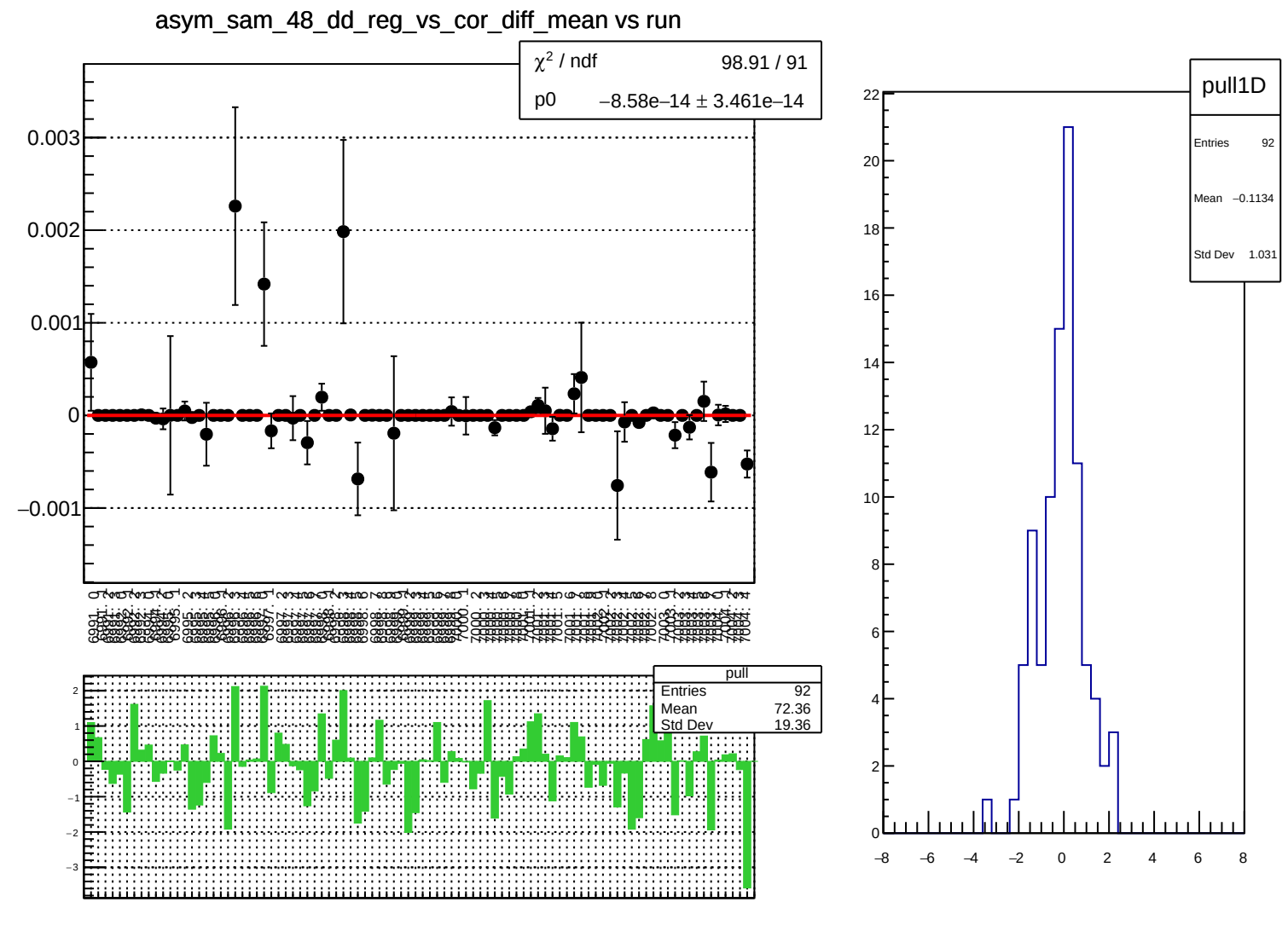

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.72 / 91
p0 −679.4 ± 1111
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1322
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001432
Std Dev 0.9875
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

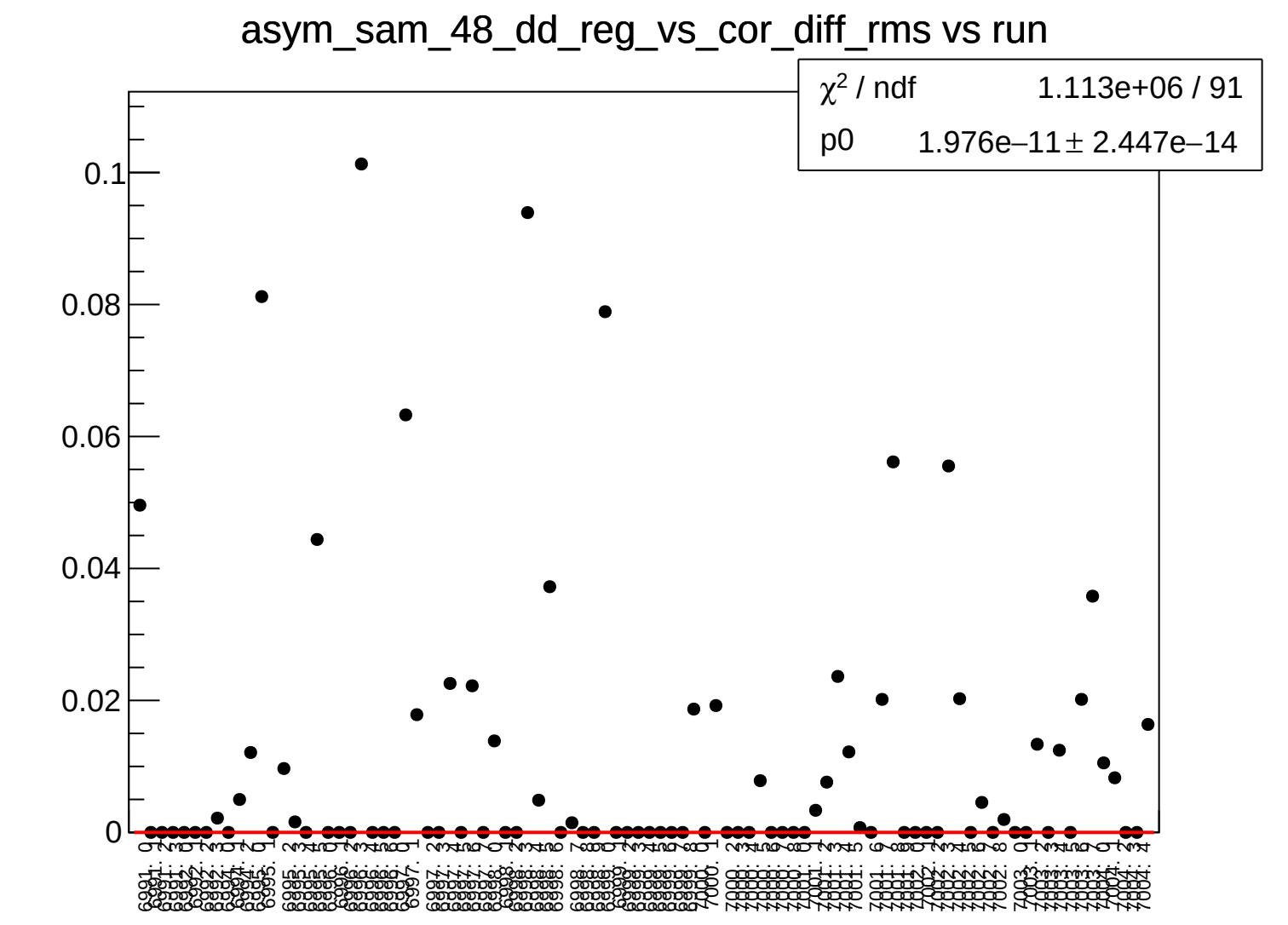

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2918 / 91
p0 1043 ± 0.7854
1150
1100
1050
1000
950

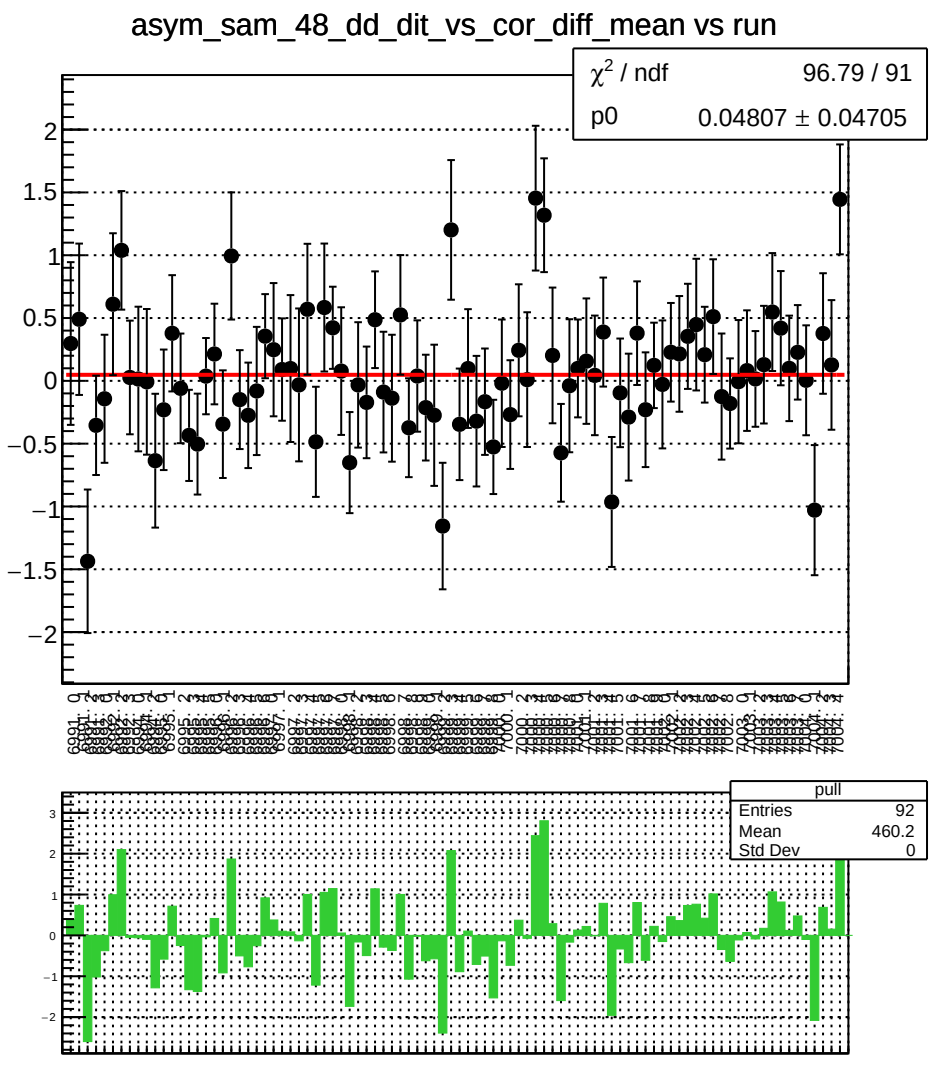

asym_sam_48_dd_mean vs run
χ² / ndf 90.44 / 91
p0 644.9 ± 1090
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 6.594e+04
Std Dev 0
2
1
0
−1
−2

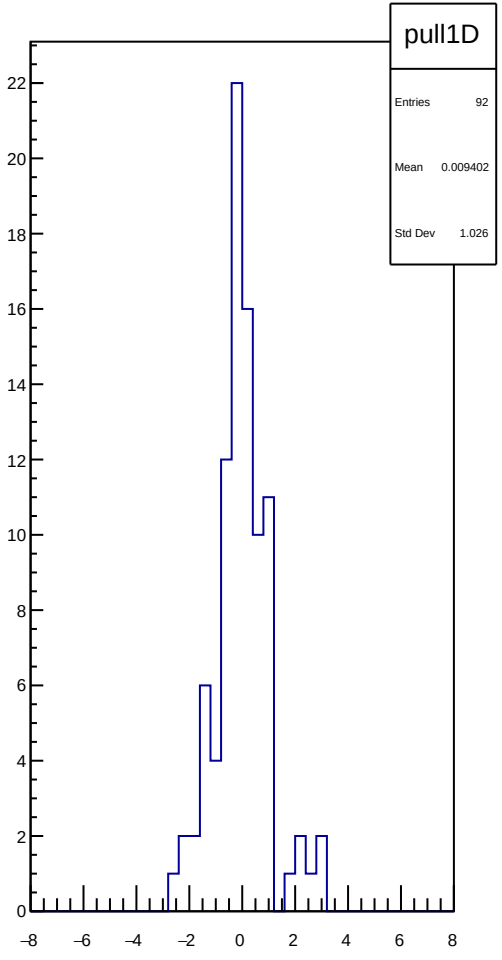

pull1D
Entries 92
Mean −2.017e−05
Std Dev 0.9915
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

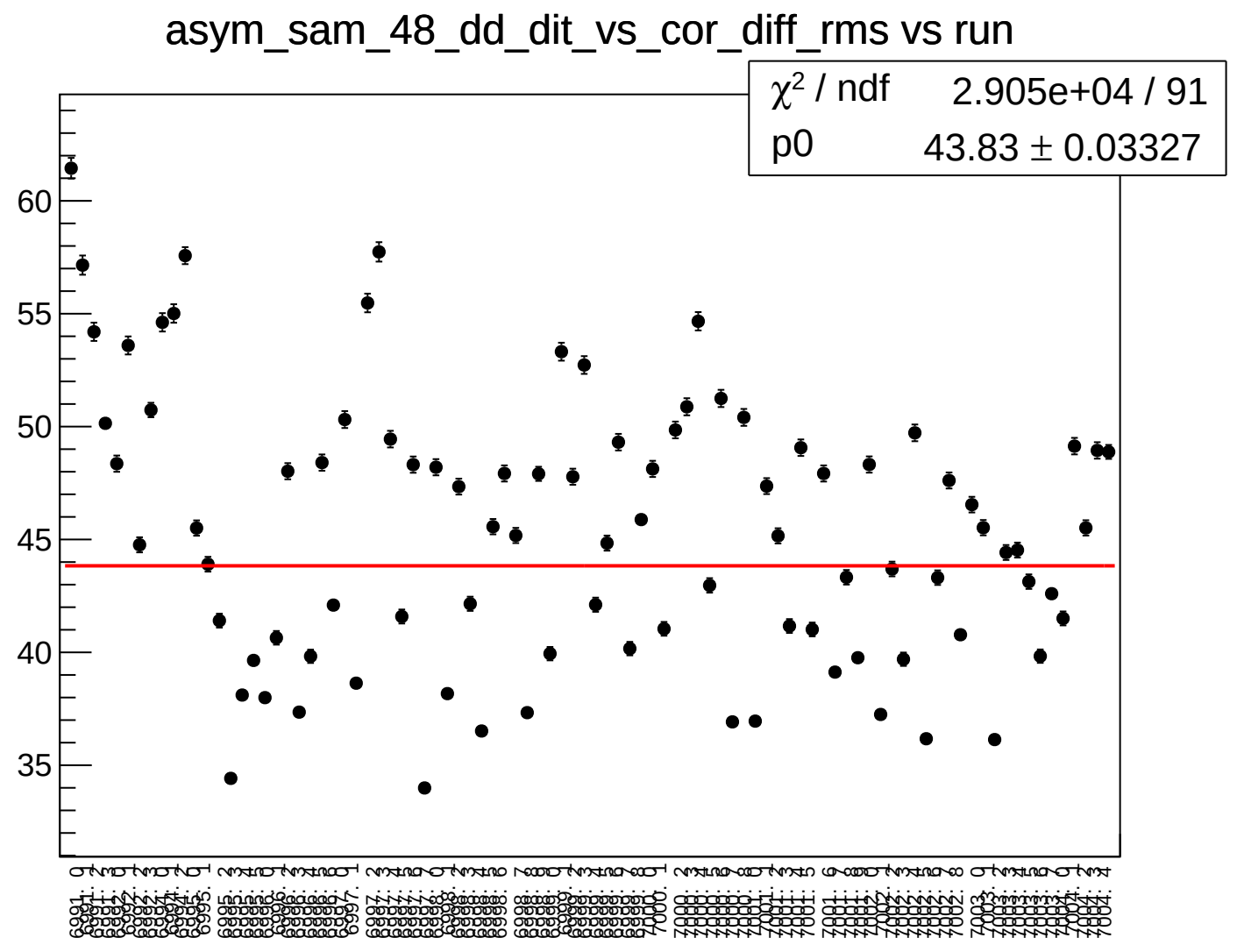

asym_sam_48_dd_rms vs run
χ² / ndf 3853 / 91
p0 1023 ± 0.7708
1200
1150
1100
1050
1000
950
900

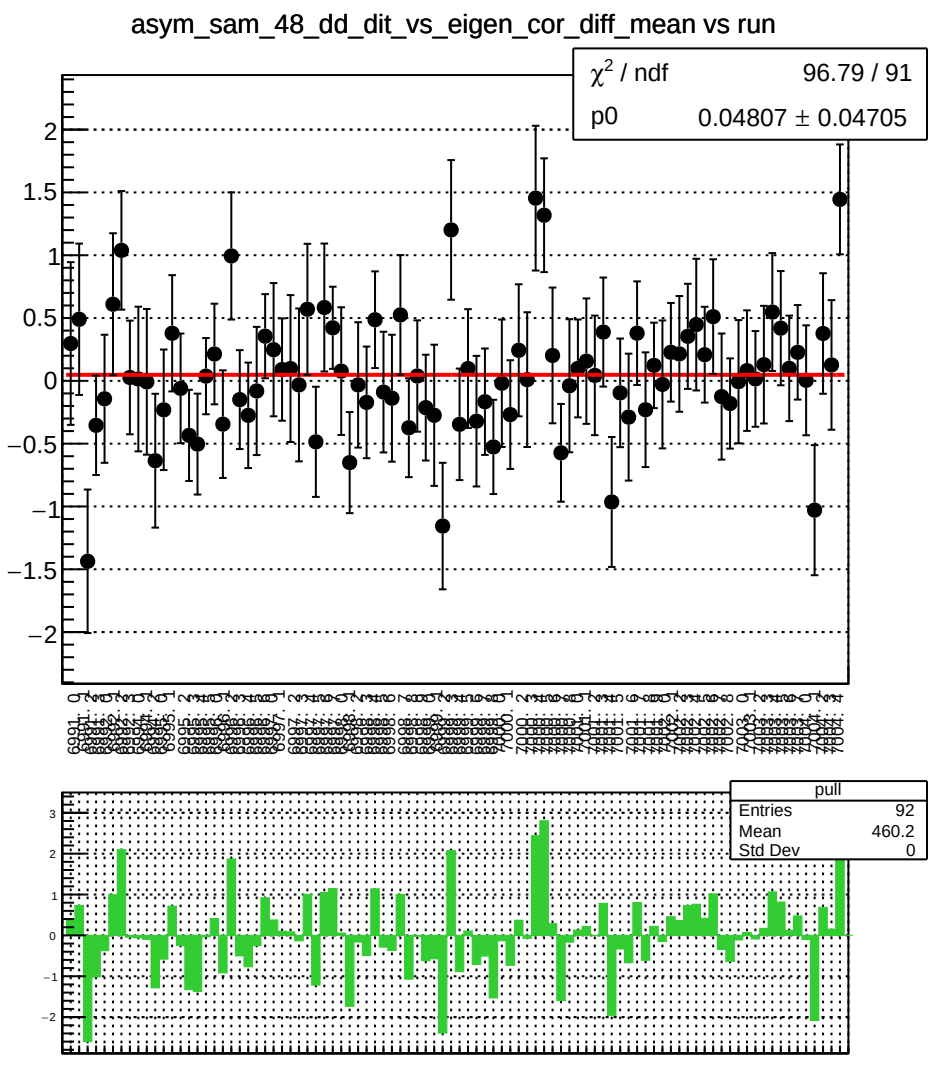

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.91 / 91
p0 −8.58e−14 ± 3.461e−14
0.003
0.002
0.001
0
−0.001
pull
Entries 92
Mean 72.36
Std Dev 19.36
pull1D
Entries 92
Mean −0.1134
Std Dev 1.031

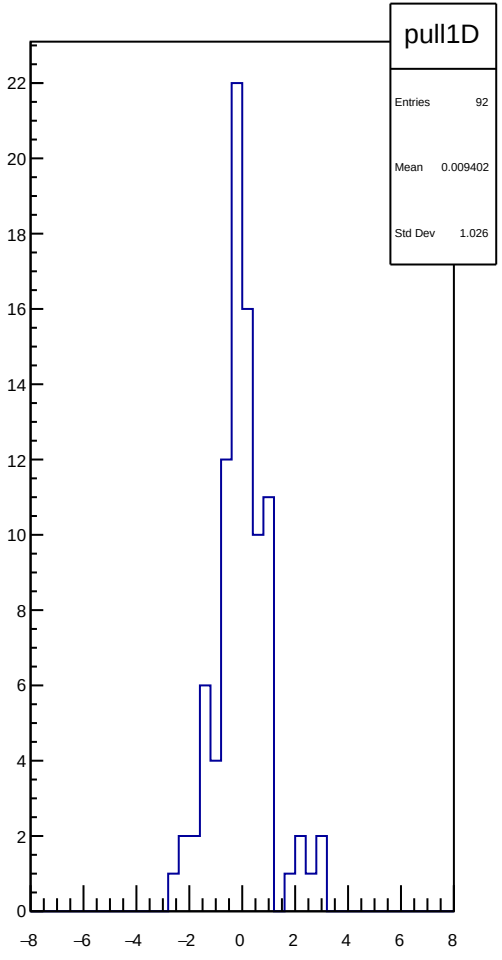

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.113e+06 / 91
p0 1.976e−11 ± 2.447e−14
0.1
0.08
0.06
0.04
0.02
0

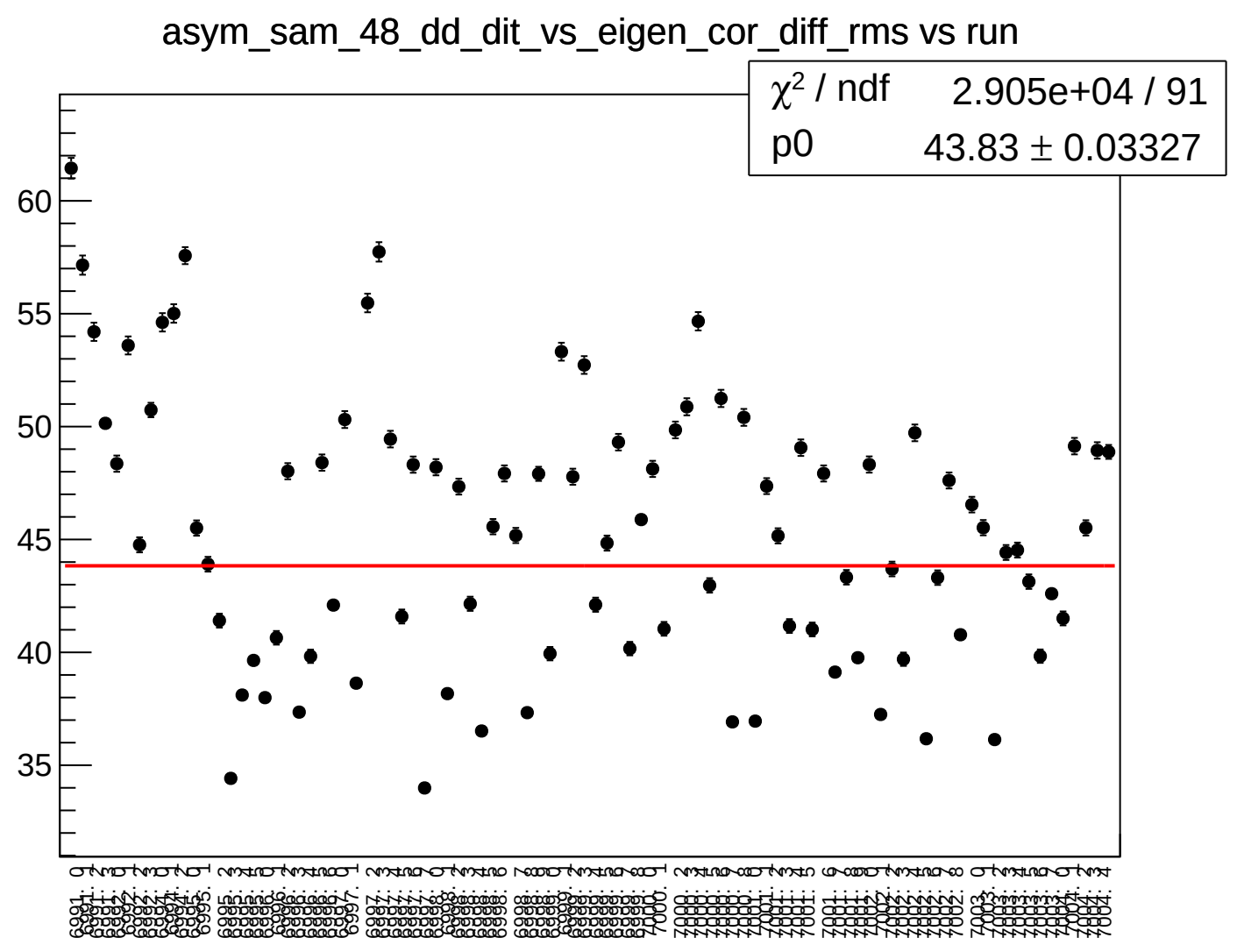

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.79 / 91
p0 0.04807 ± 0.04705
pull
Entries 92
Mean 460.2
Std Dev 0

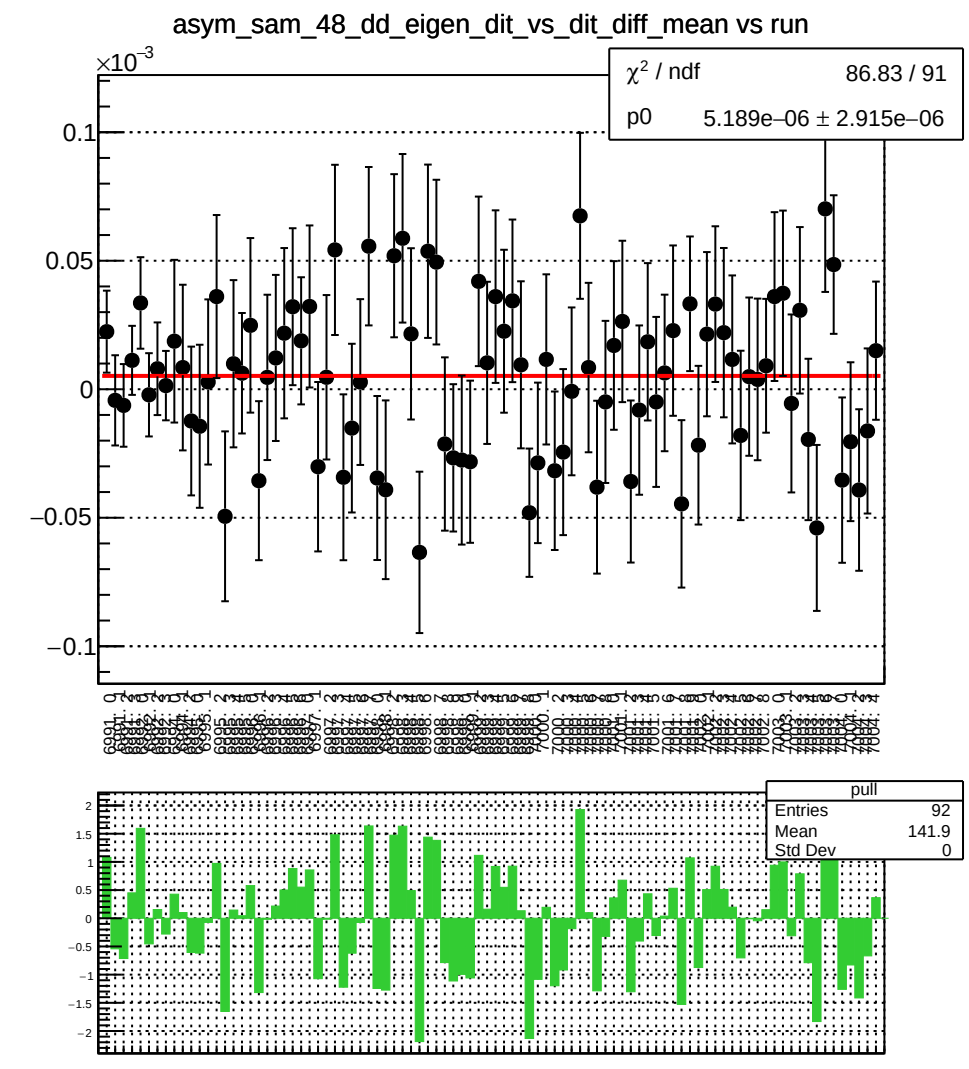

pull1D
Entries 92
Mean 0.009402
Std Dev 1.026

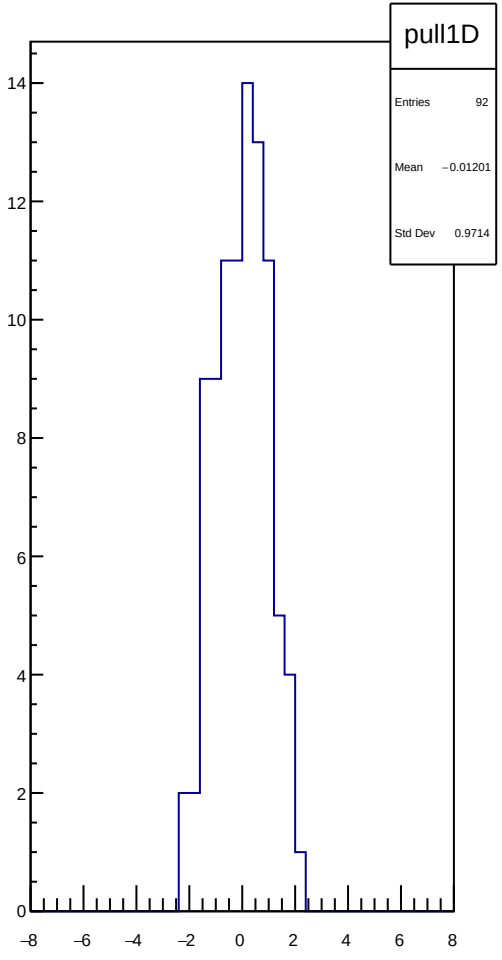

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.905e+04 / 91
p0 43.83 ± 0.03327
60
55
50
45
40
35

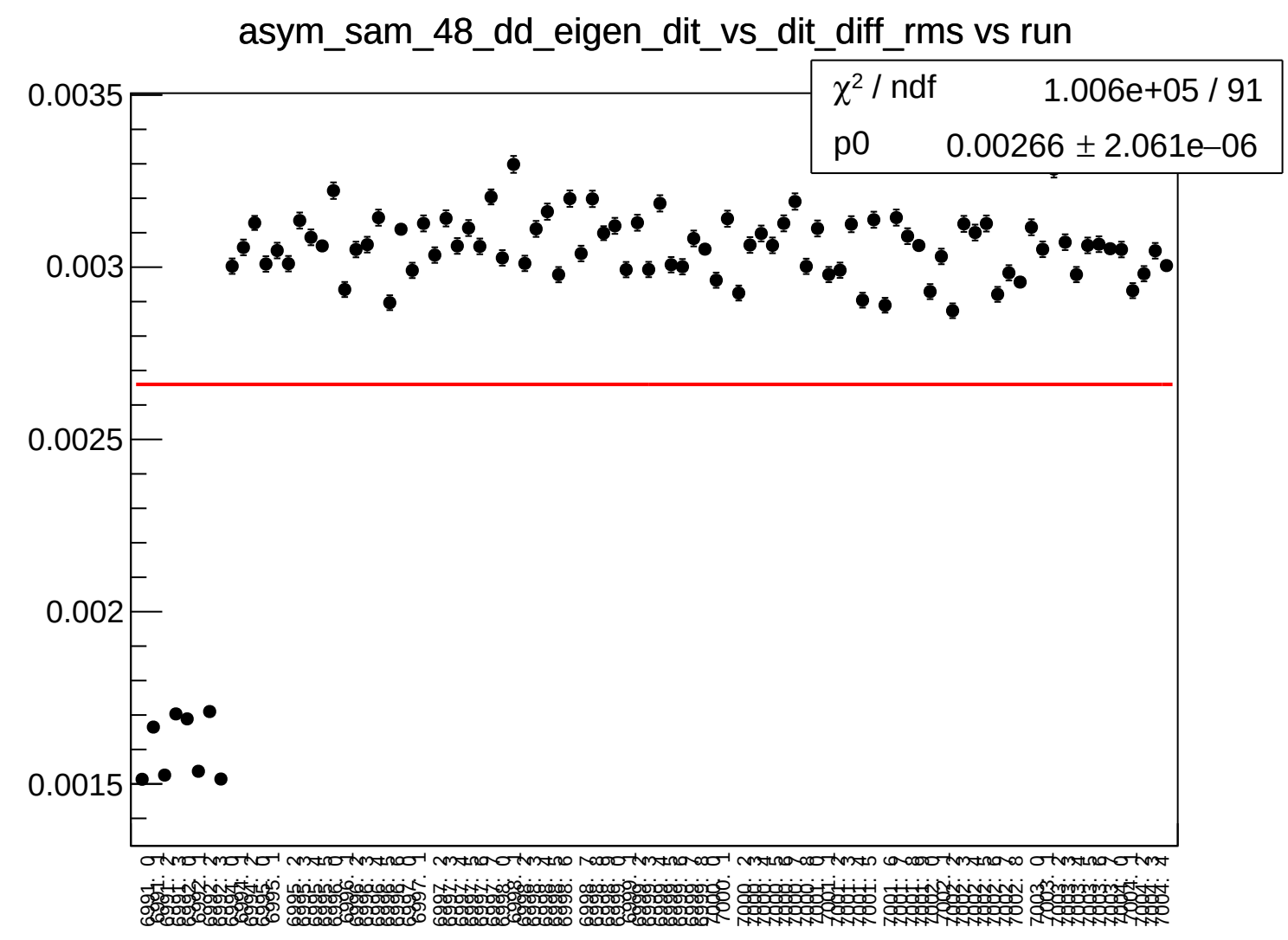

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.79 / 91
p0 0.04807 ± 0.04705
pull
Entries 92
Mean 460.2
Std Dev 0

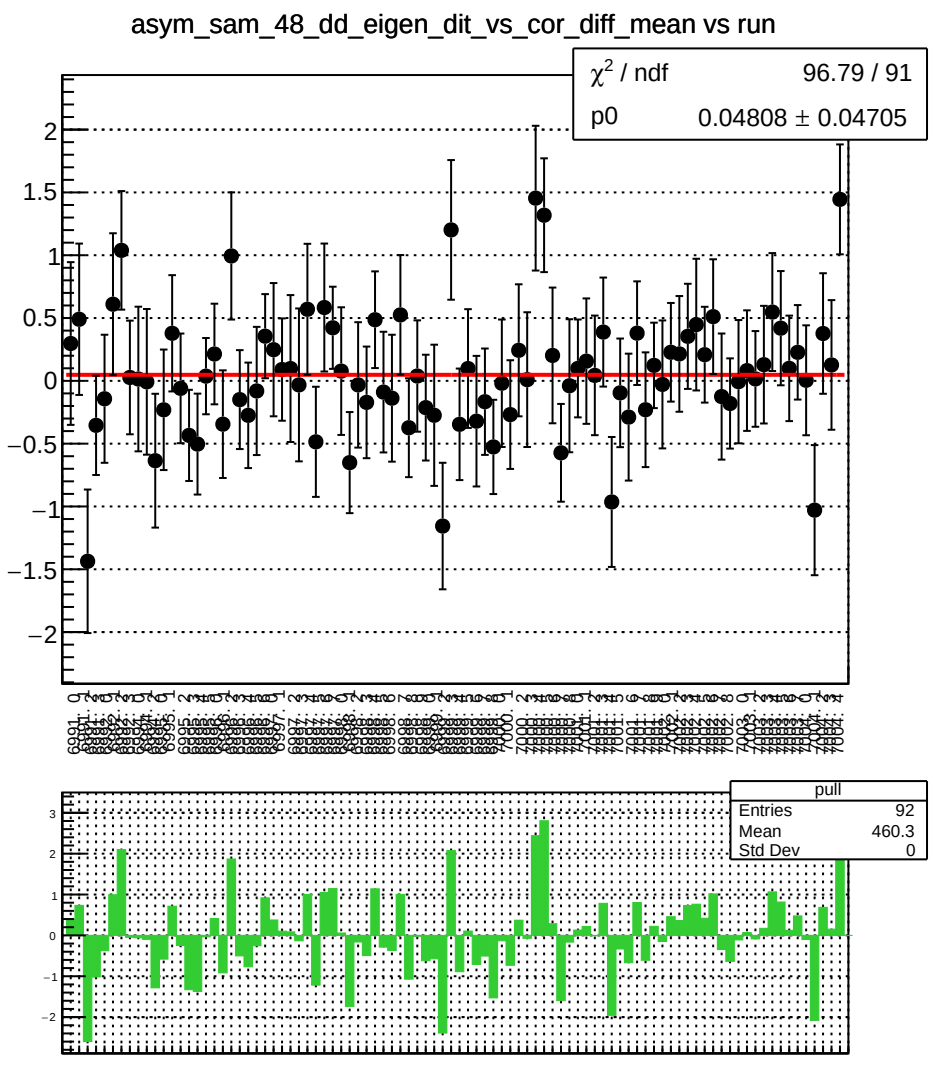

pull1D
Entries 92
Mean 0.009402
Std Dev 1.026

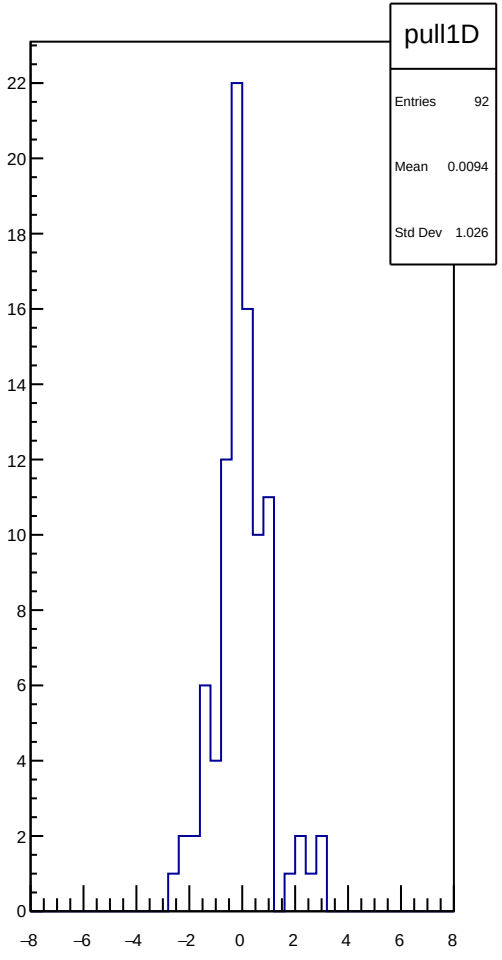

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.905e+04 / 91
p0 43.83 ± 0.03327
60
55
50
45
40
35

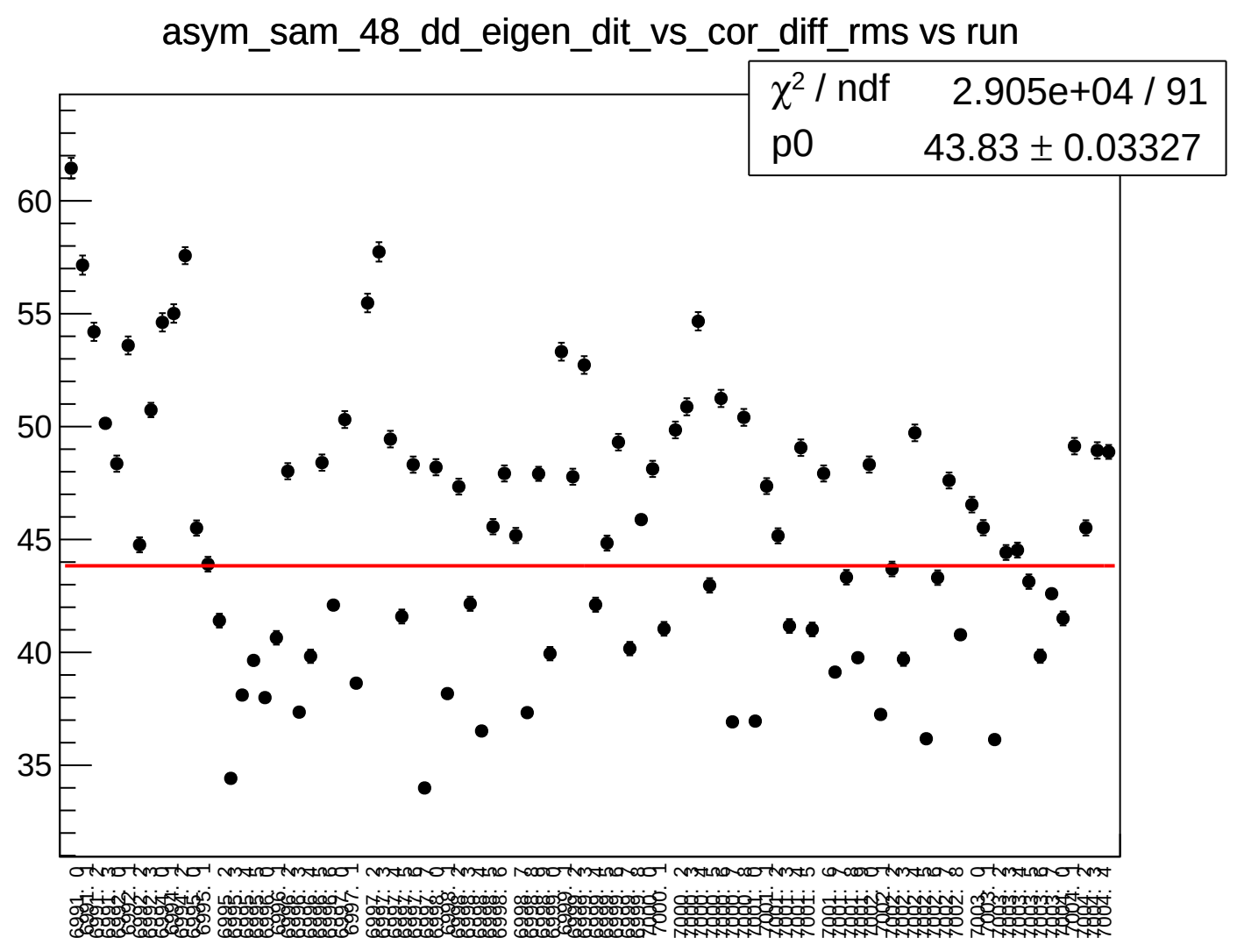

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.83 / 91
p0 5.189e−06 ± 2.915e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 141.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

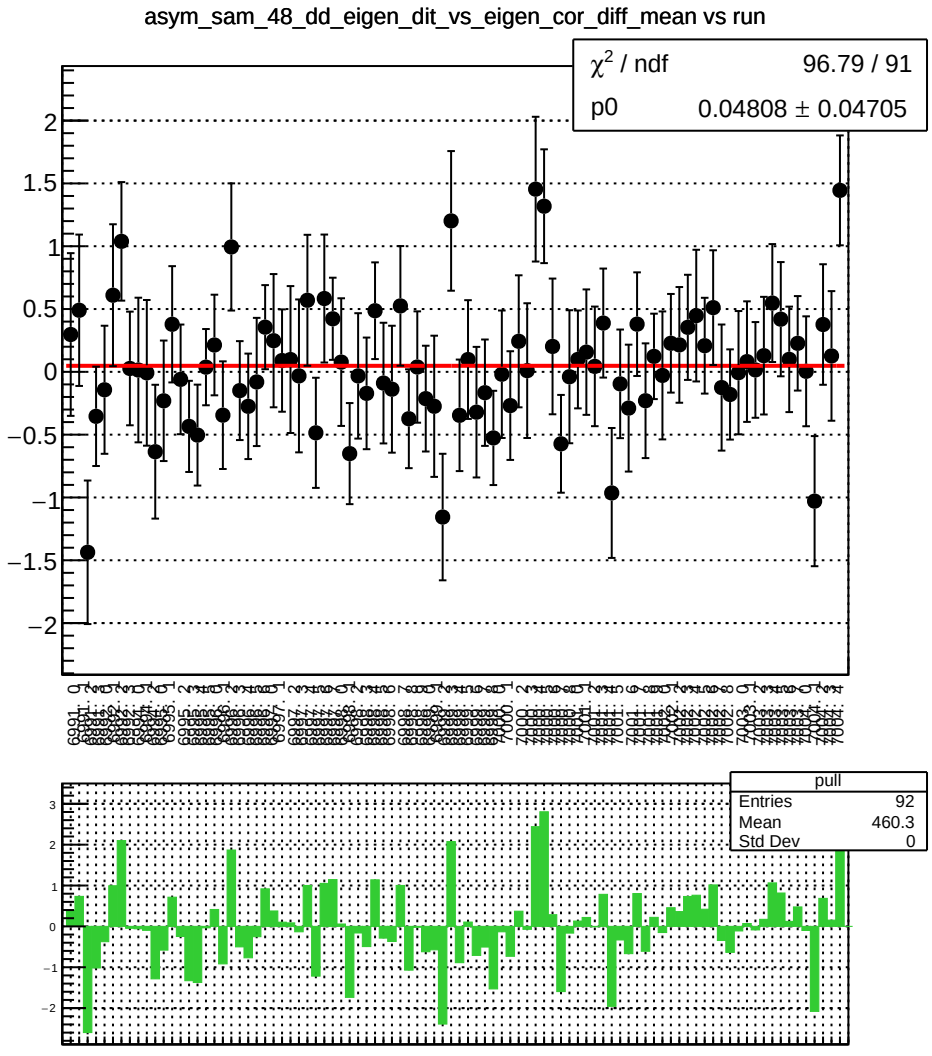

pull1D
Entries 92
Mean −0.01201
Std Dev 0.9714
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

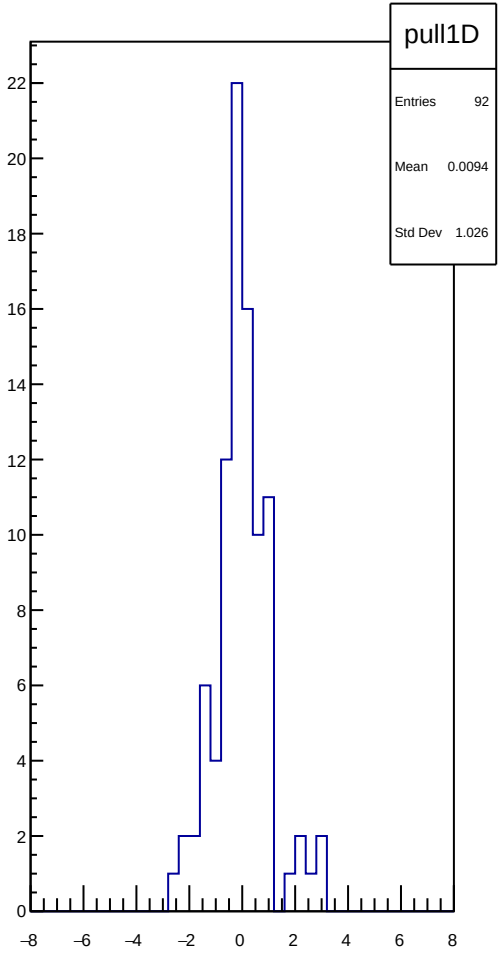

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.006e+05 / 91
p0 0.00266 ± 2.061e–06
0.0035
0.003
0.0025
0.002
0.0015

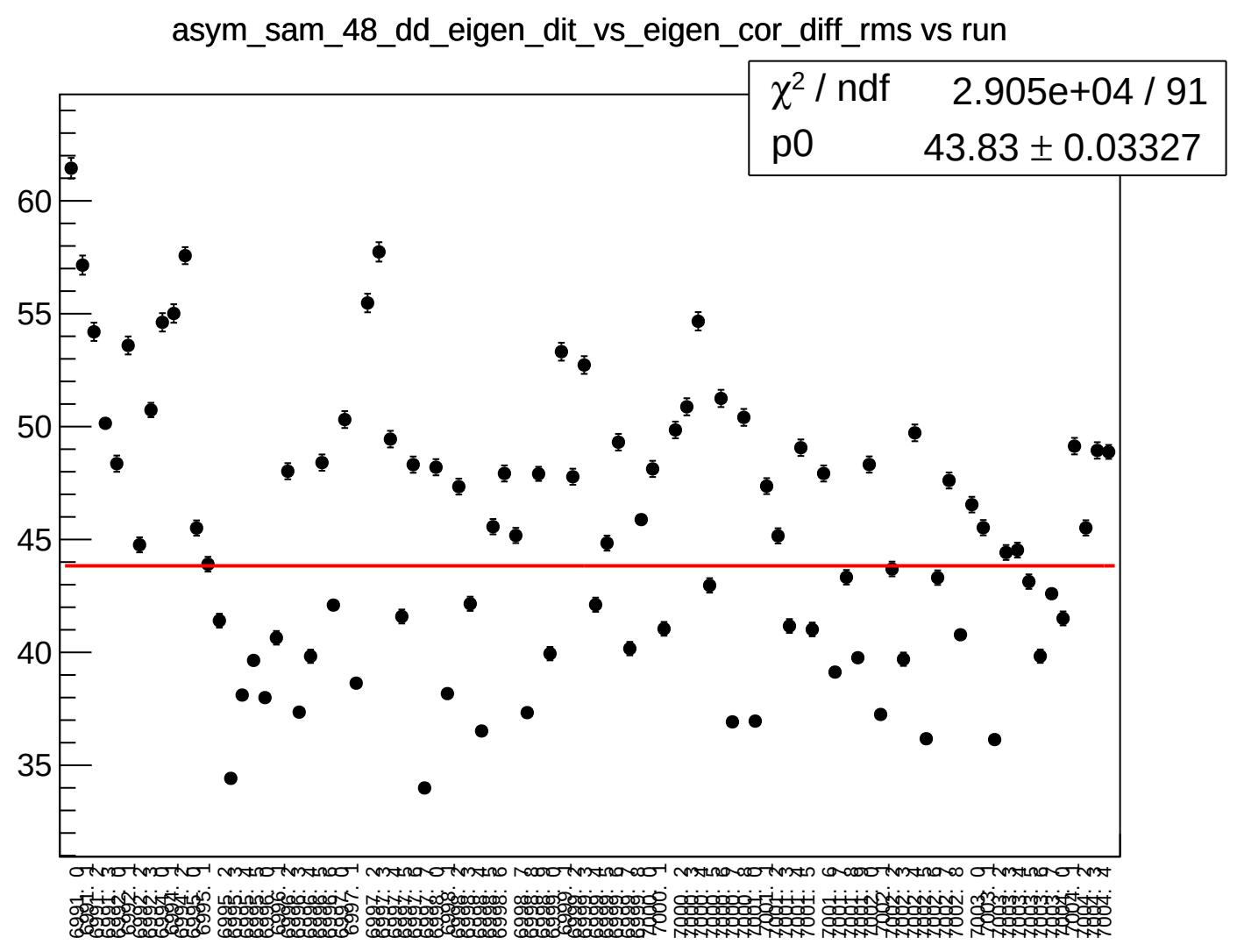

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.79 / 91
p0 0.04808 ± 0.04705
pull
Entries 92
Mean 460.3
Std Dev 0

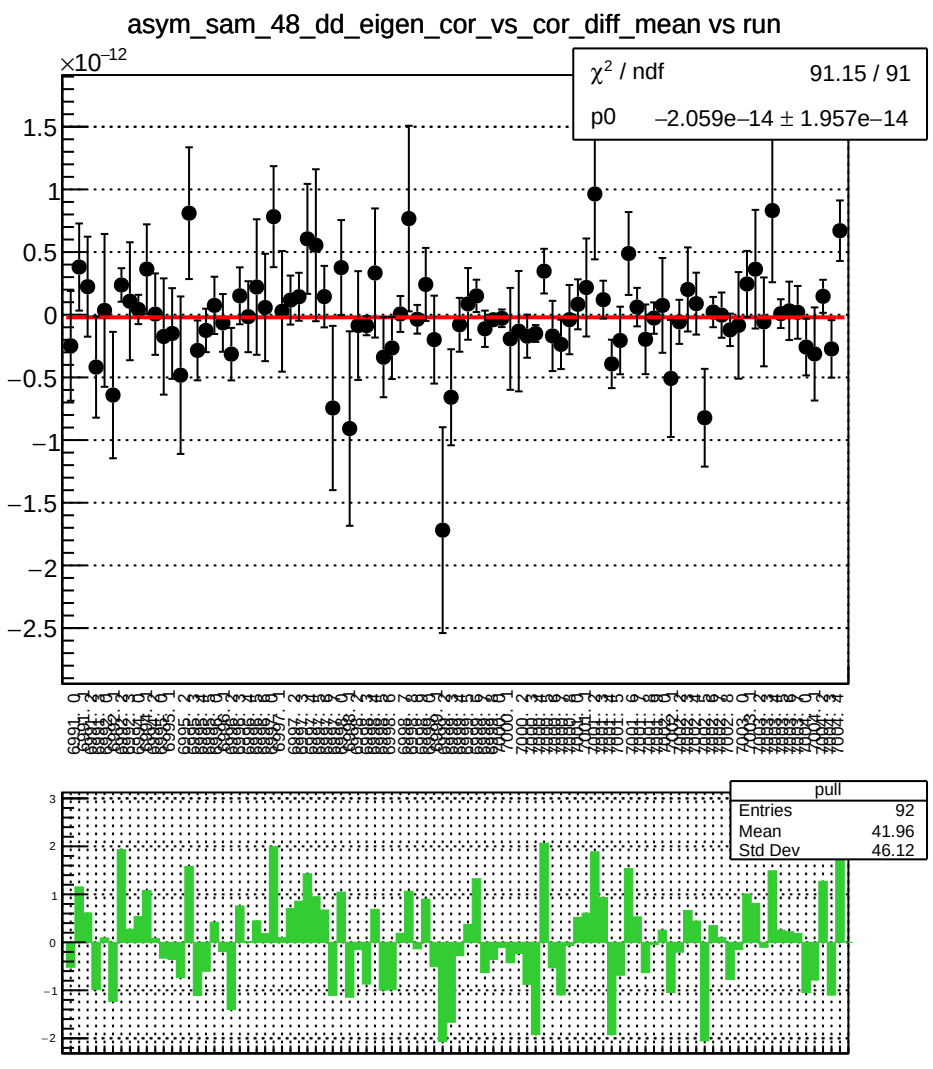

pull1D
Entries 92
Mean 0.0094
Std Dev 1.026

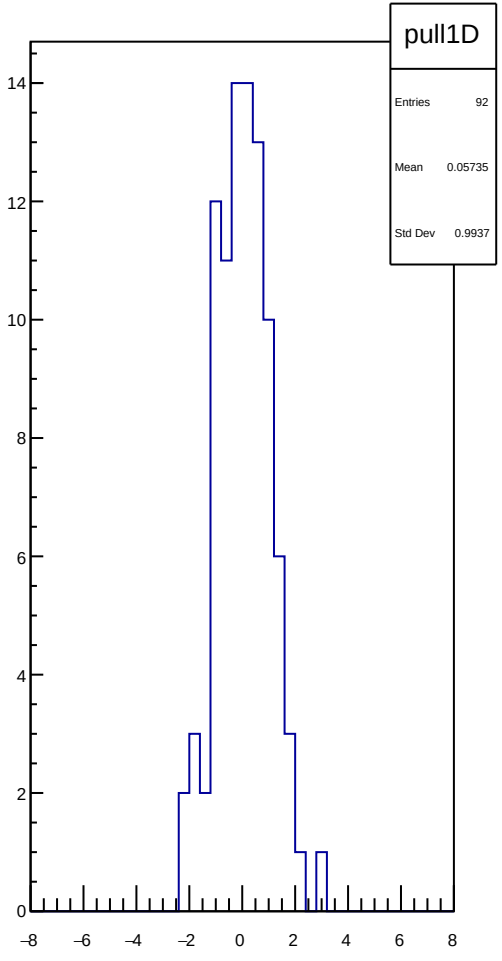

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.905e+04 / 91
p0 43.83 ± 0.03327
60
55
50
45
40
35

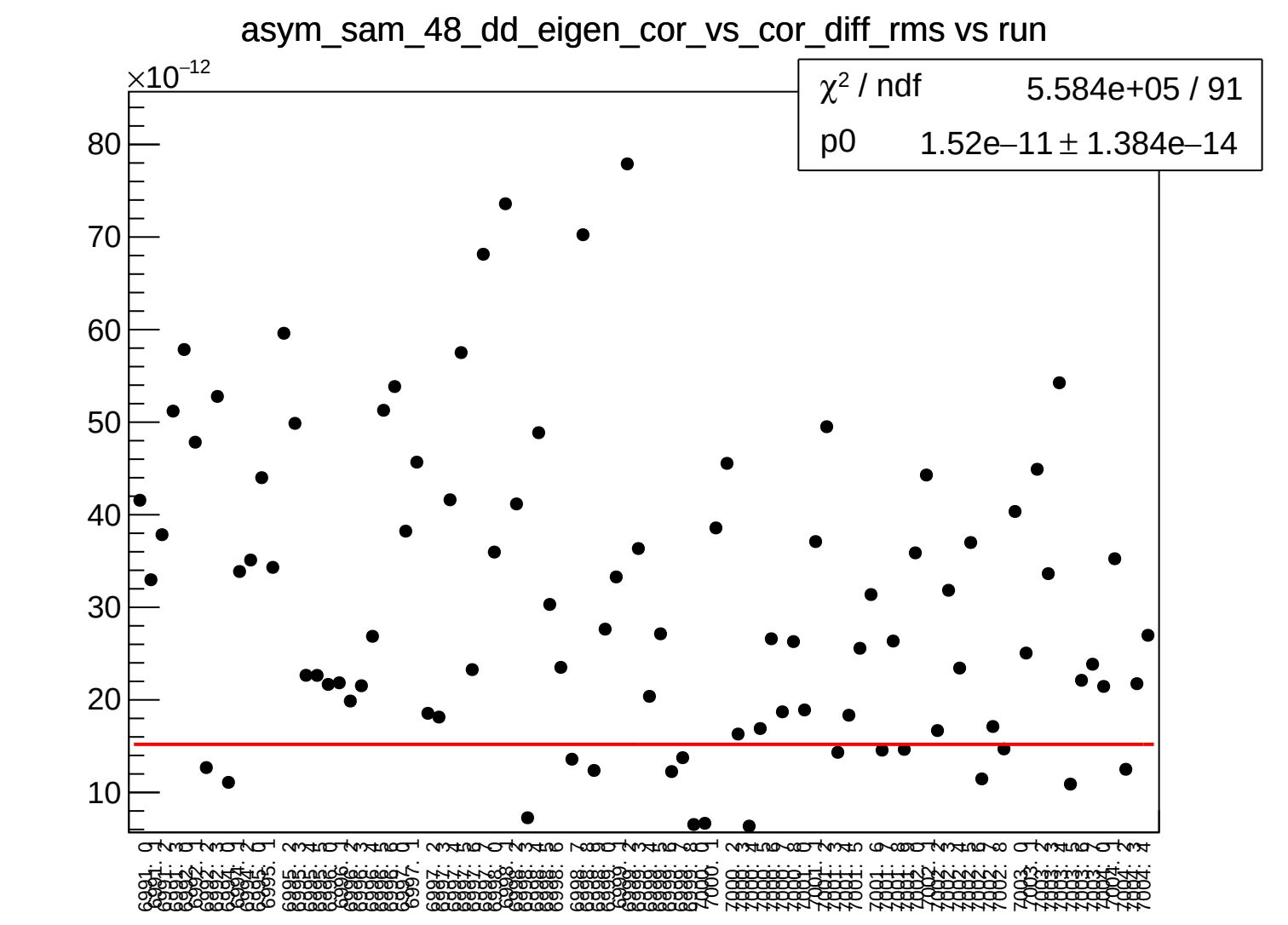

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.79 / 91
p0 0.04808 ± 0.04705
pull
Entries 92
Mean 460.3
Std Dev 0

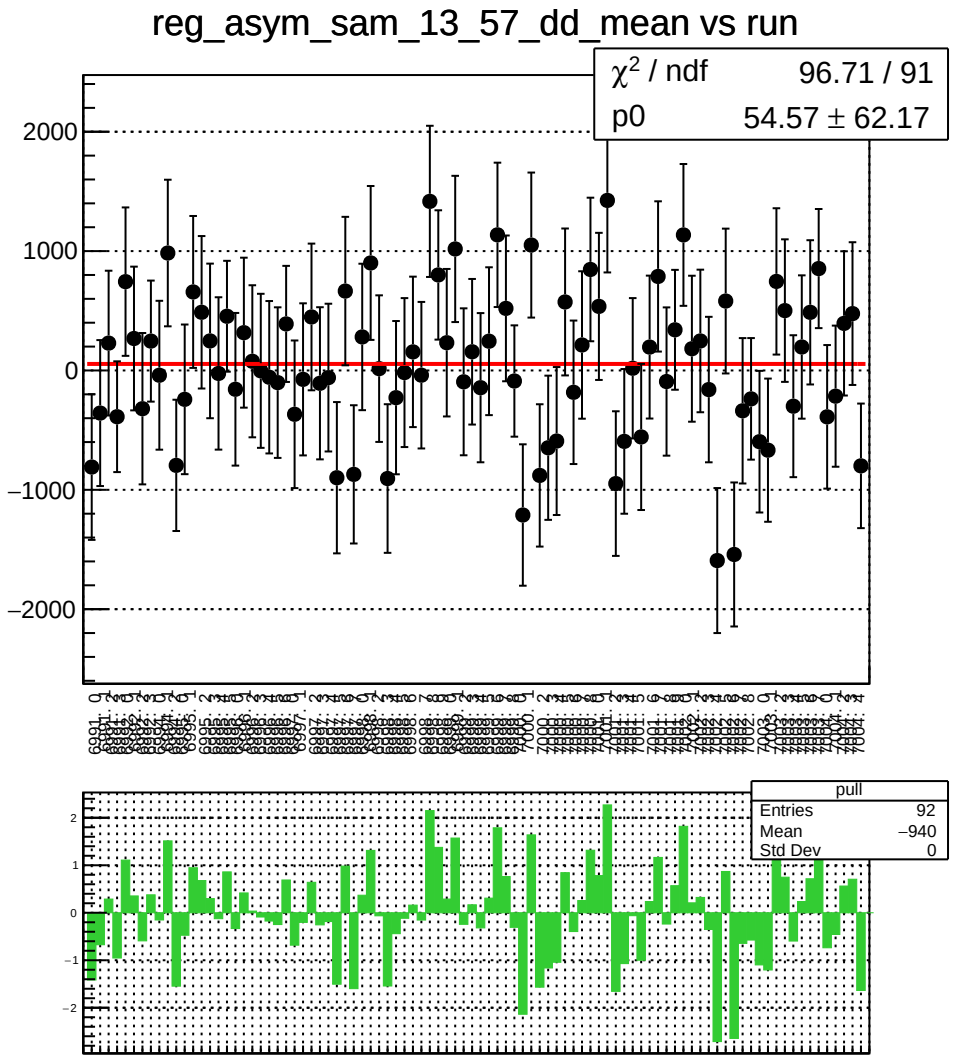

pull1D
Entries 92
Mean 0.0094
Std Dev 1.026

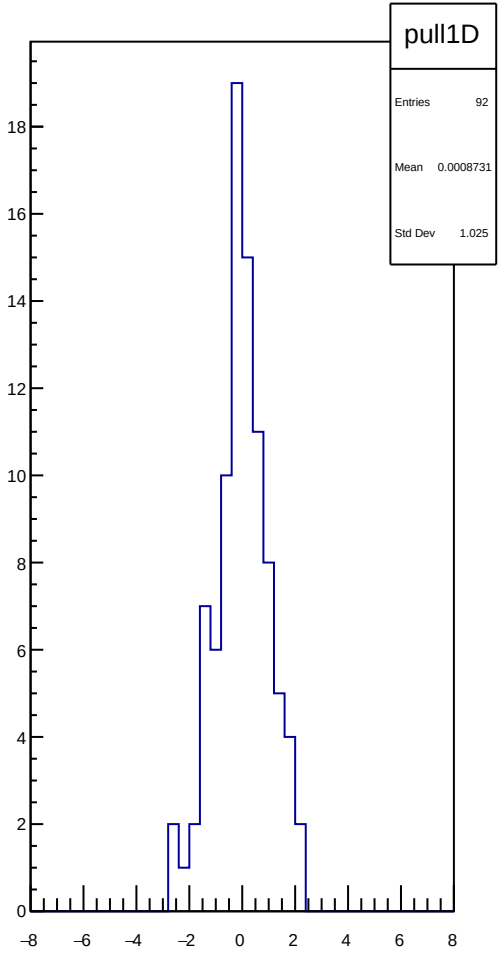

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.905e+04 / 91
p0 43.83 ± 0.03327
60
55
50
45
40
35

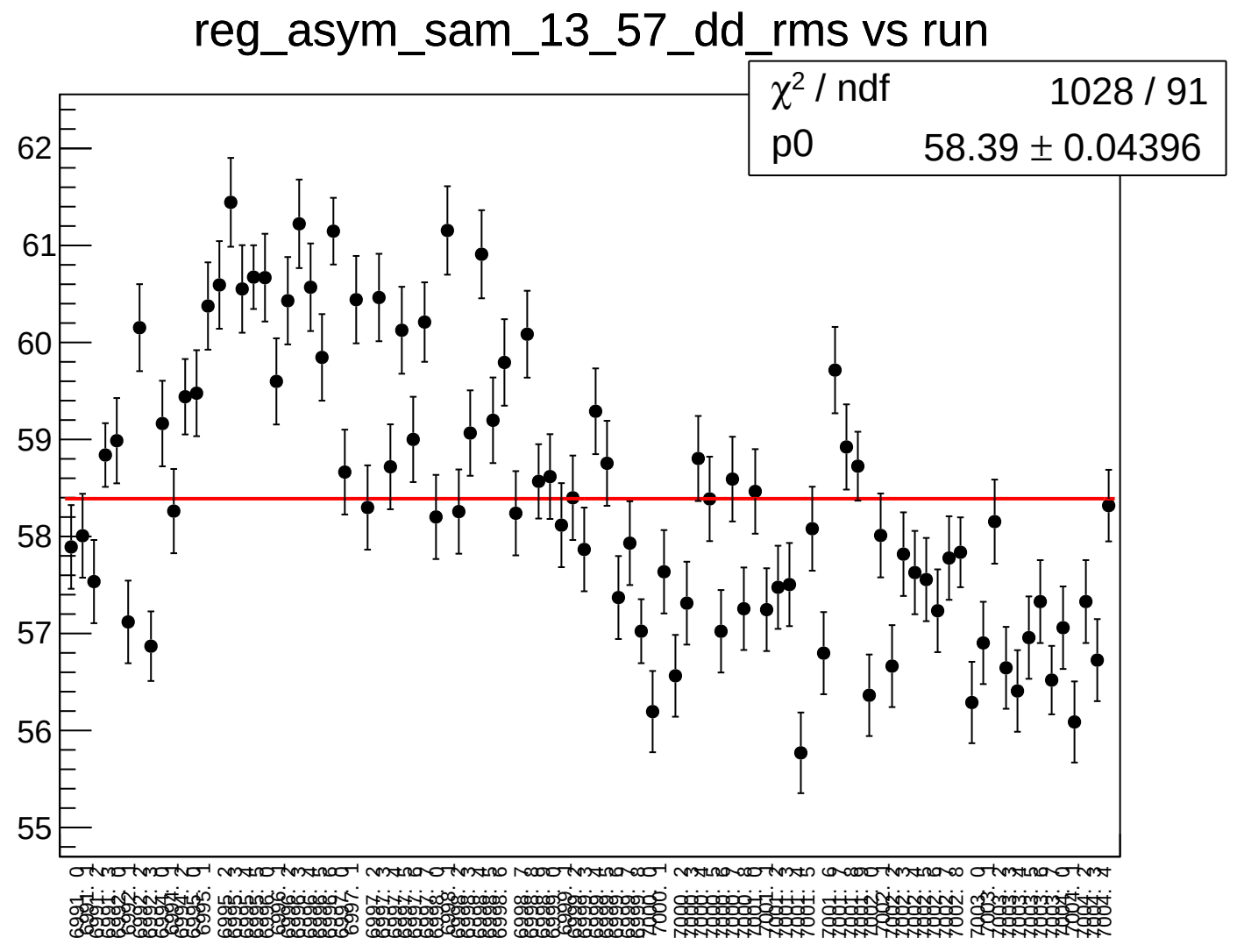

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.15 / 91
p0 −2.059e−14 ± 1.957e−14
pull
Entries 92
Mean 41.96
Std Dev 46.12

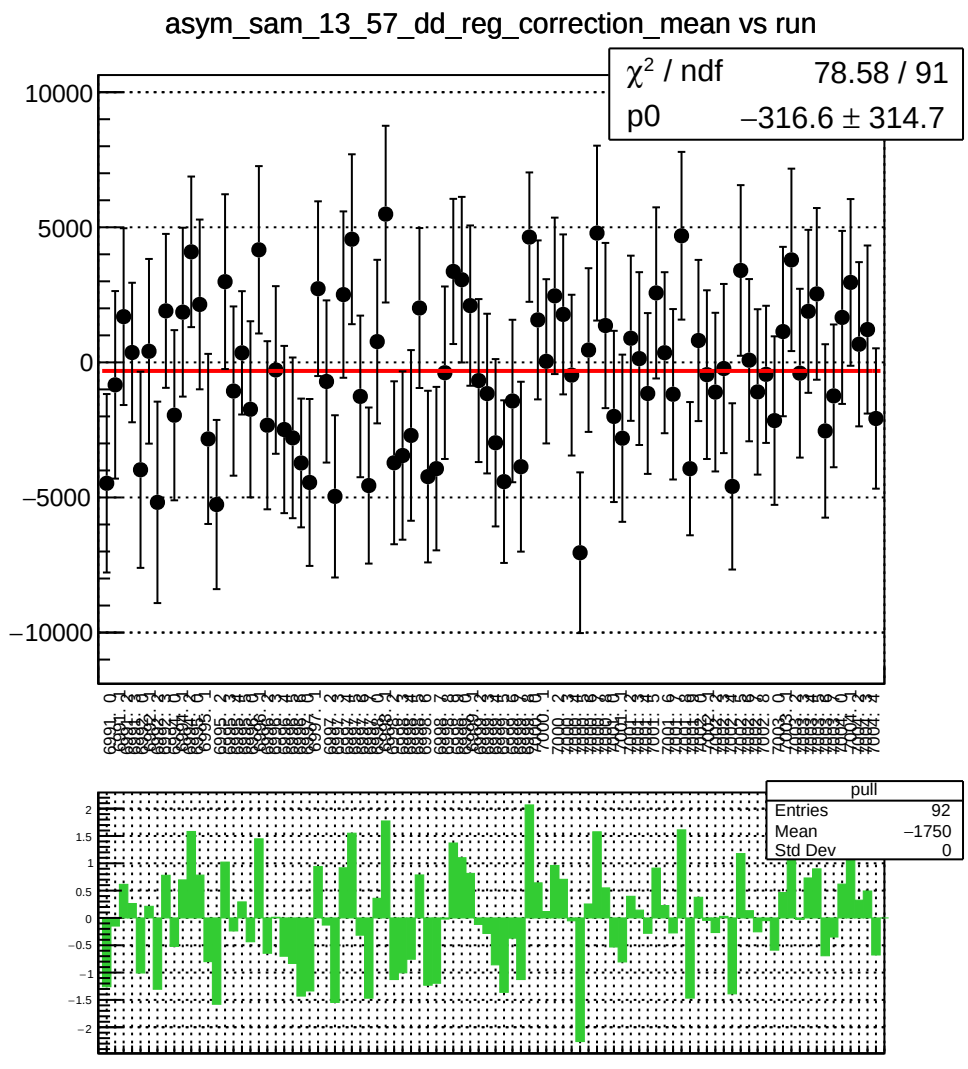

pull1D
Entries 92
Mean 0.05735
Std Dev 0.9937

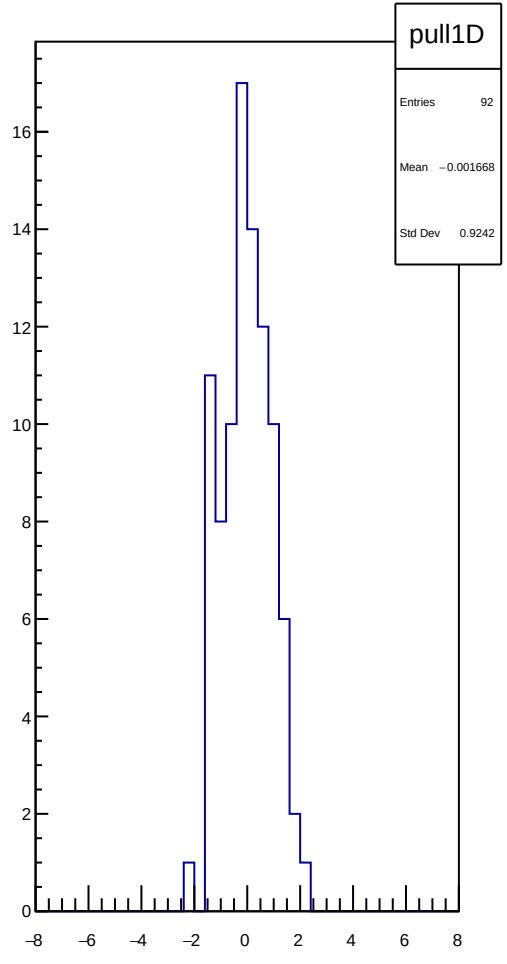

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.584e+05 / 91
p0 1.52e−11 ± 1.384e−14
80
70
60
50
40
30
20
10

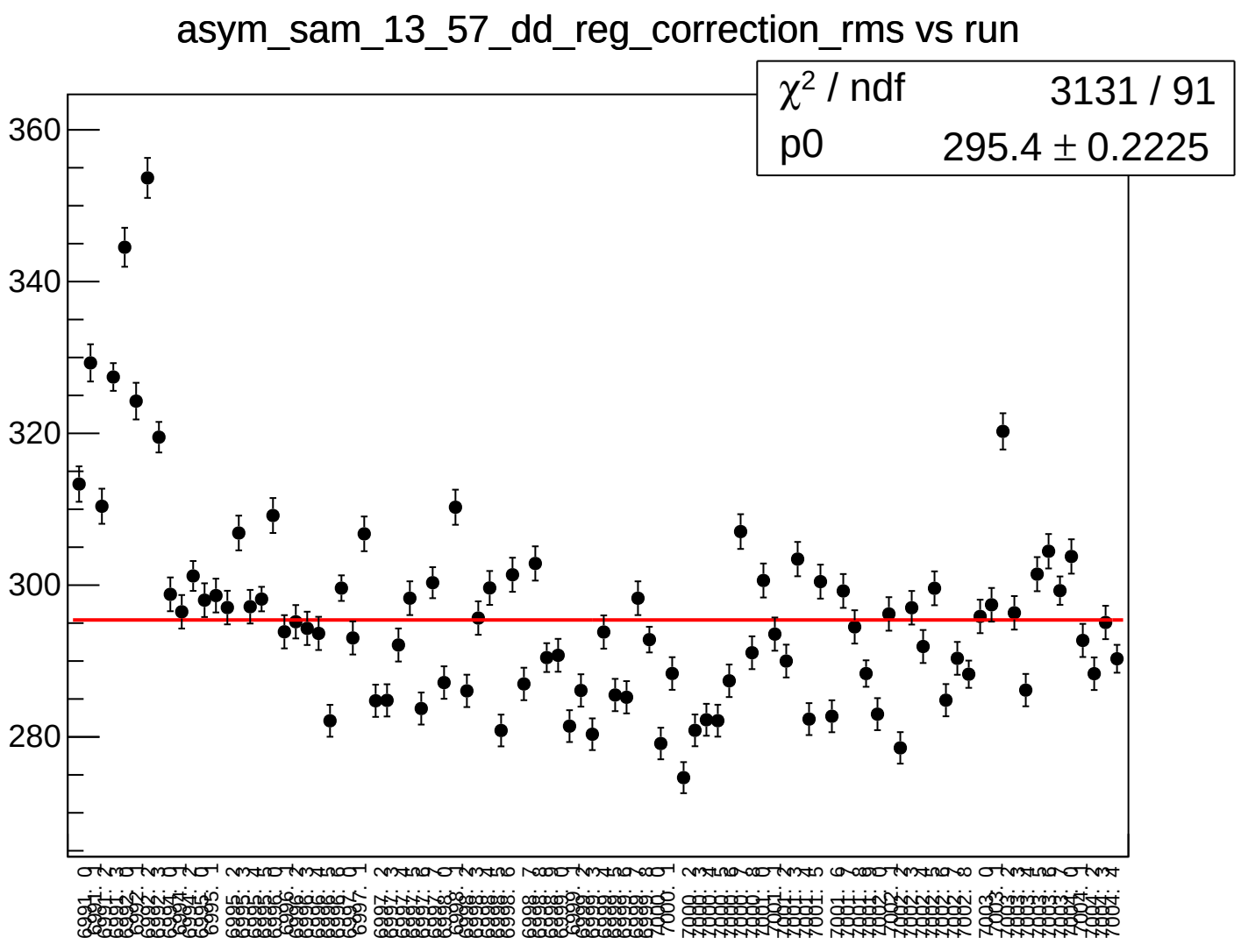

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 96.71 / 91
p0 54.57 ± 62.17
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −940
Std Dev 0
2
1
0
−1
−2

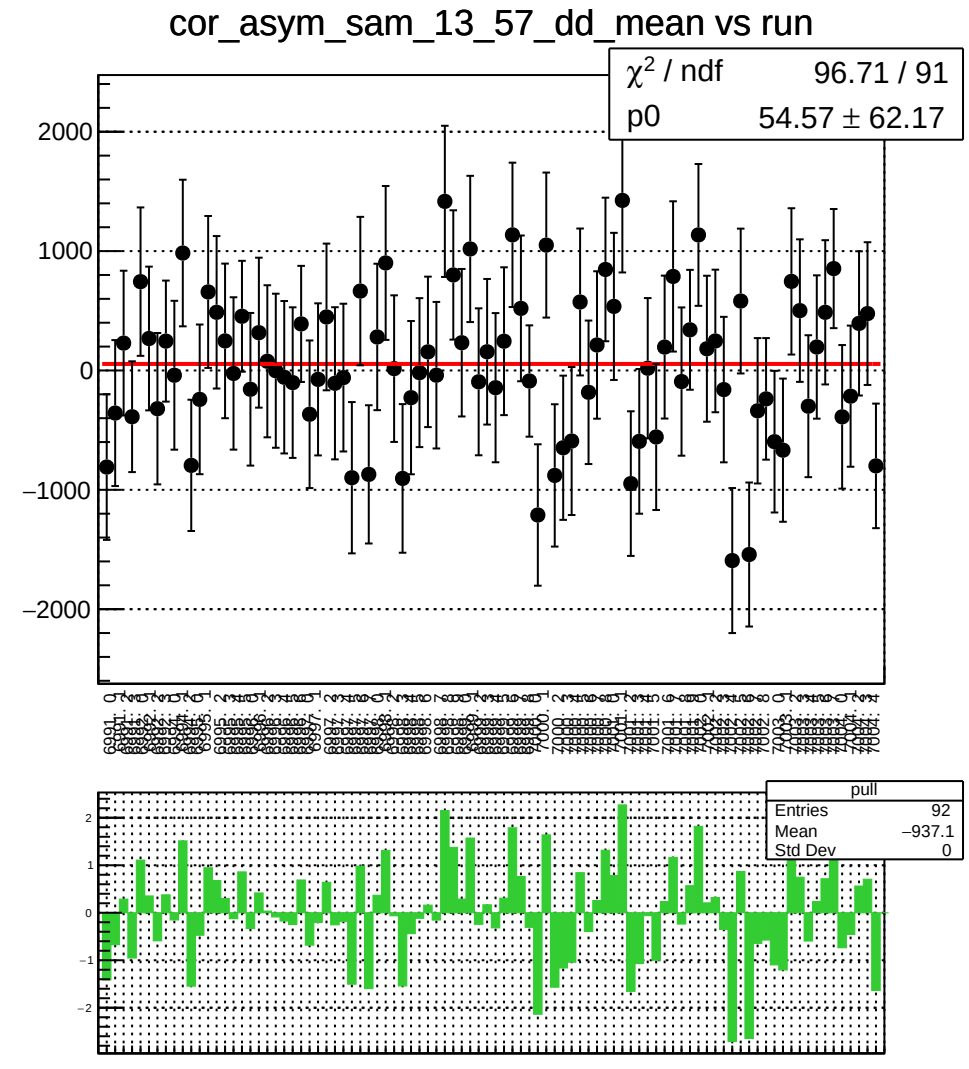

pull1D
Entries 92
Mean 0.0008731
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

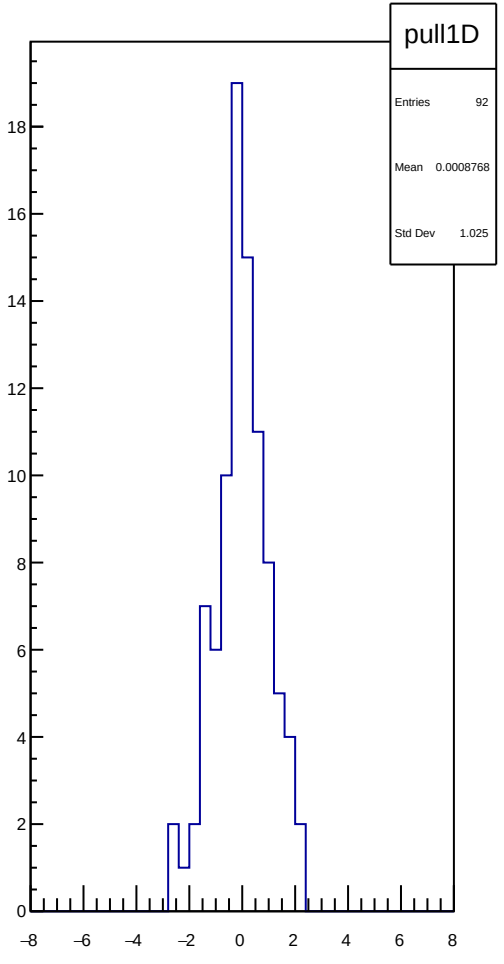

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1028 / 91
p0 58.39 ± 0.04396
62
61
60
59
58
57
56
55

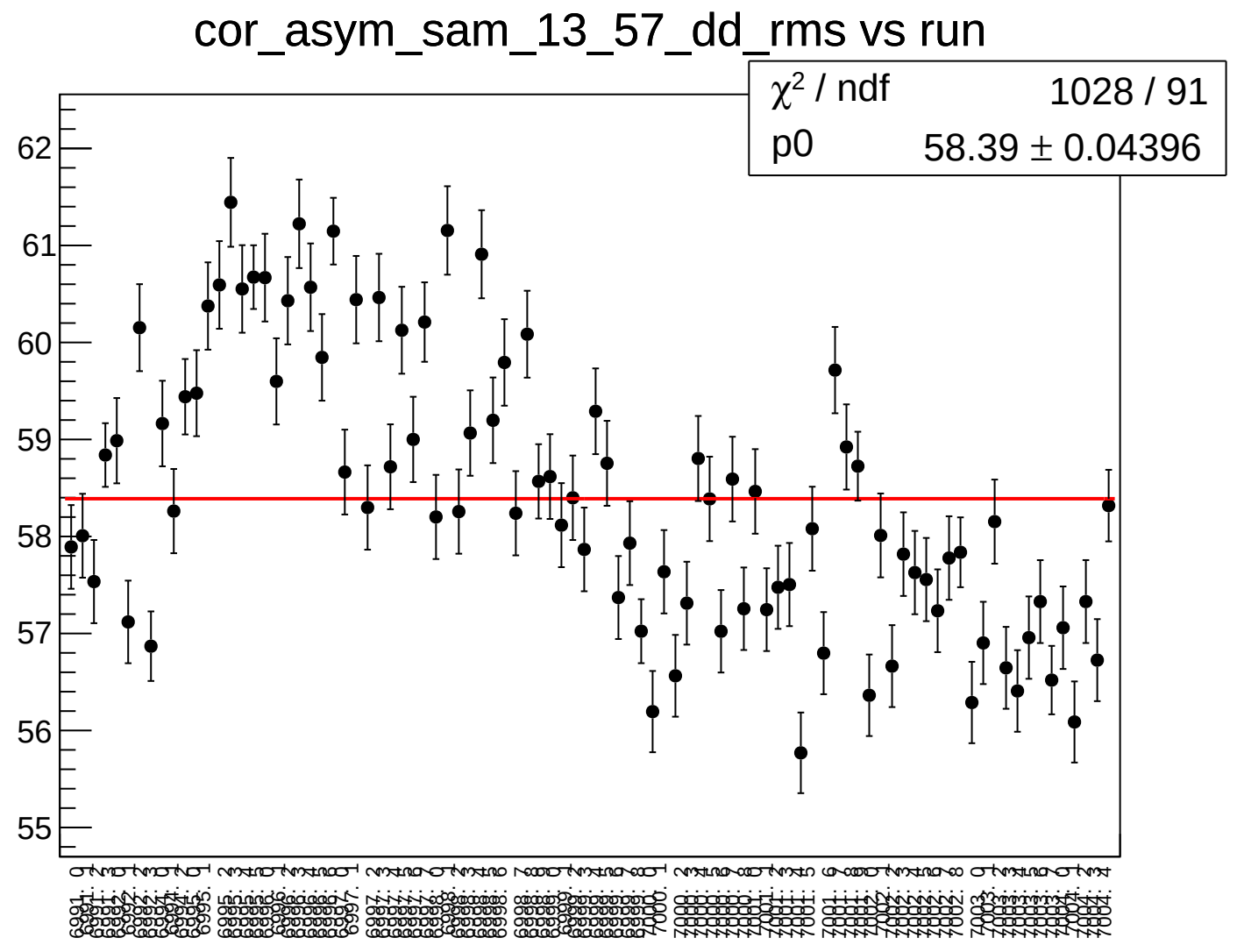

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 78.58 / 91
p0 −316.6 ± 314.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1750
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

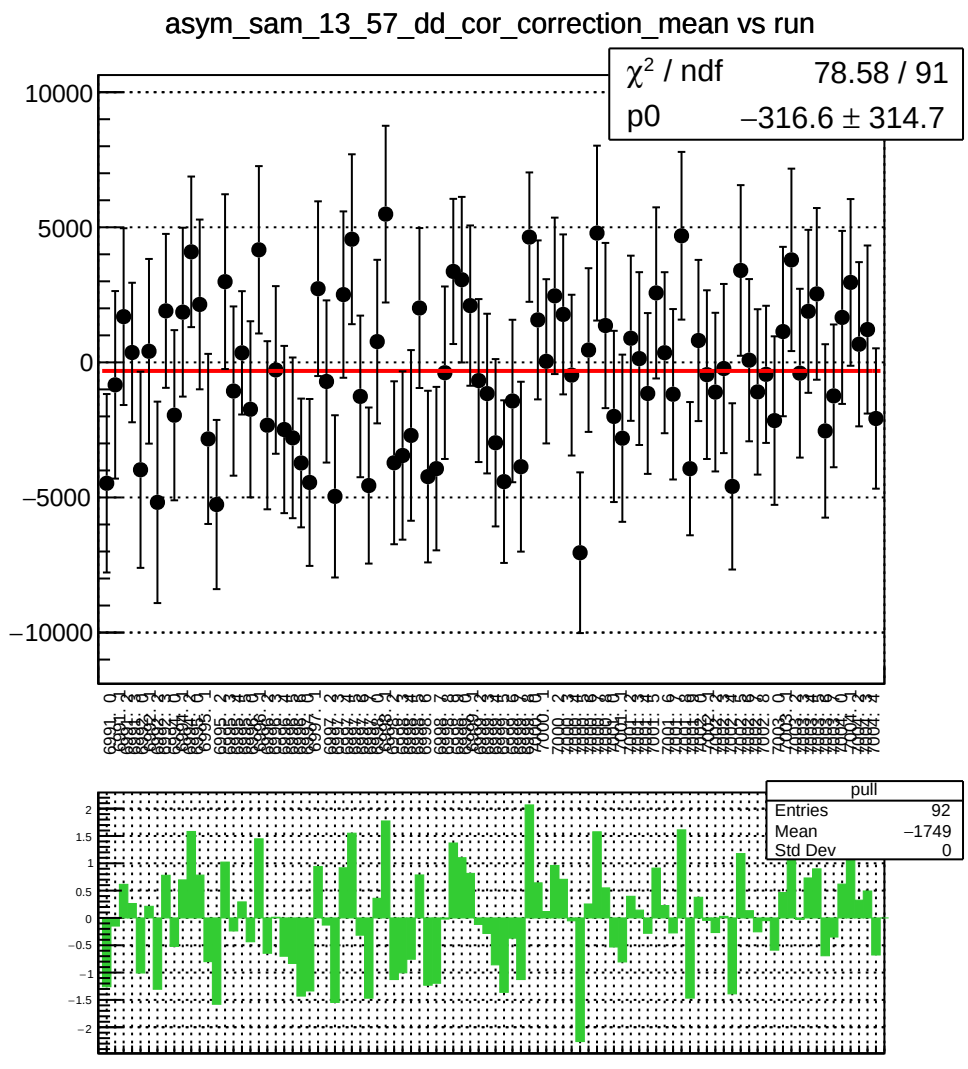

pull1D
Entries 92
Mean −0.001668
Std Dev 0.9242
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

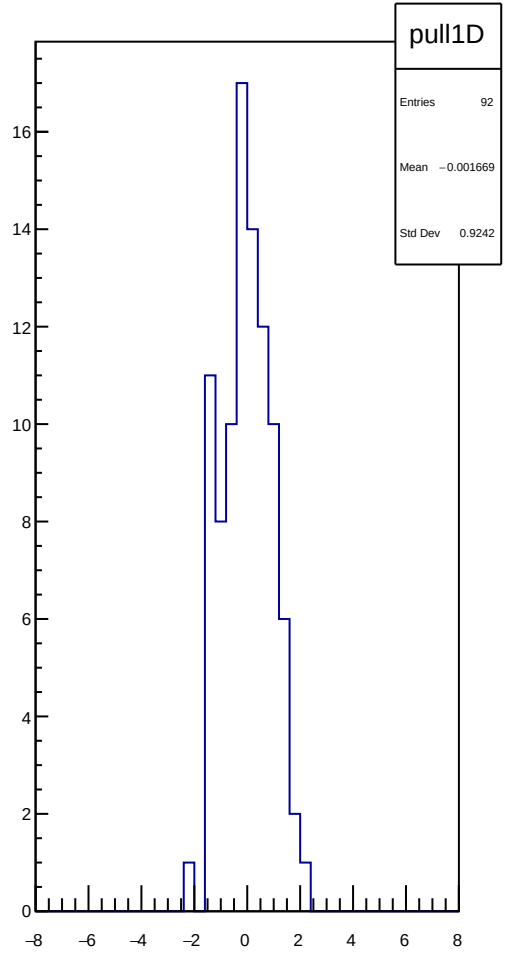

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 3131 / 91
p0 295.4 ± 0.2225
360
340
320
300
280

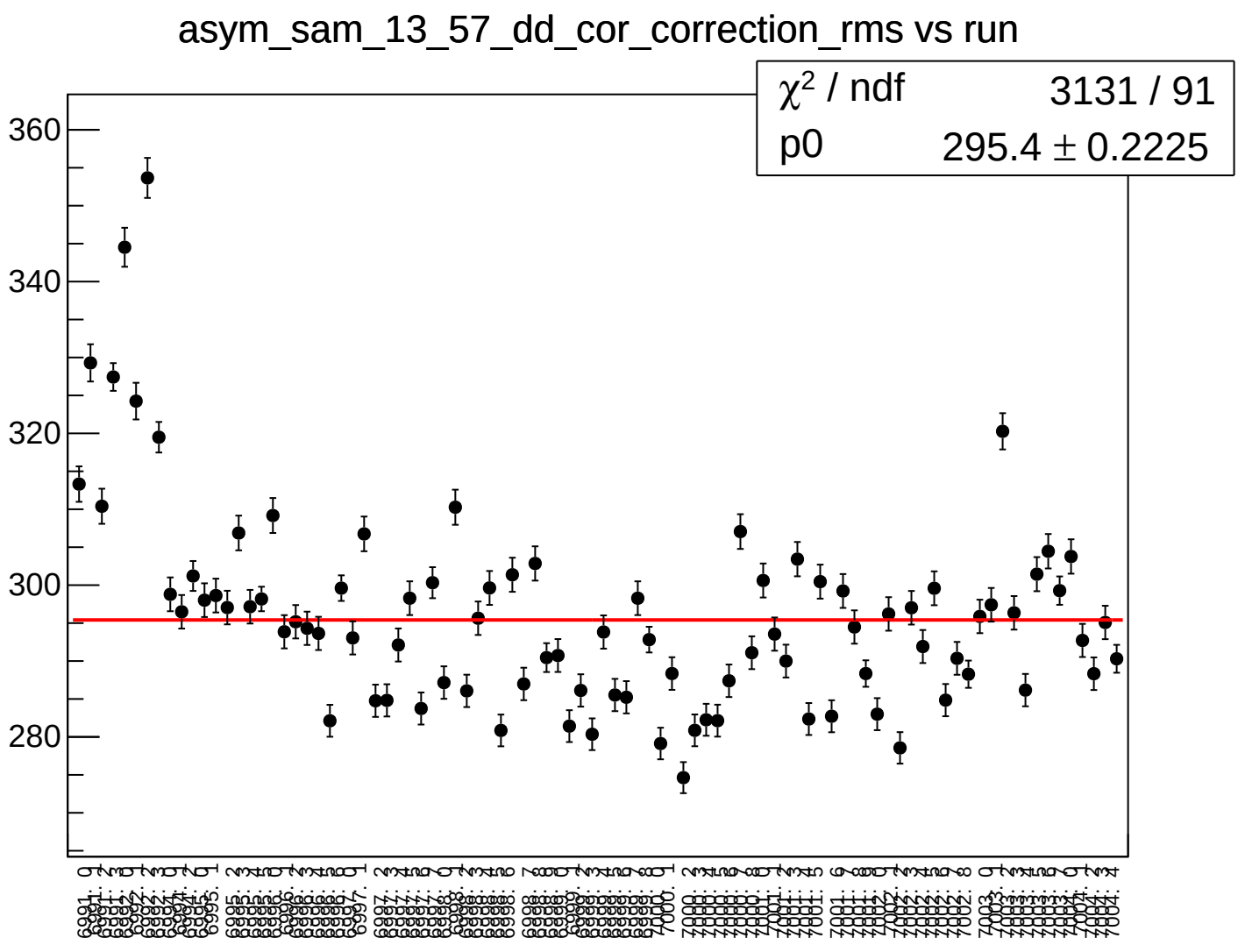

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 96.71 / 91
p0 54.57 ± 62.17
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −937.1
Std Dev 0
2
1
0
−1
−2

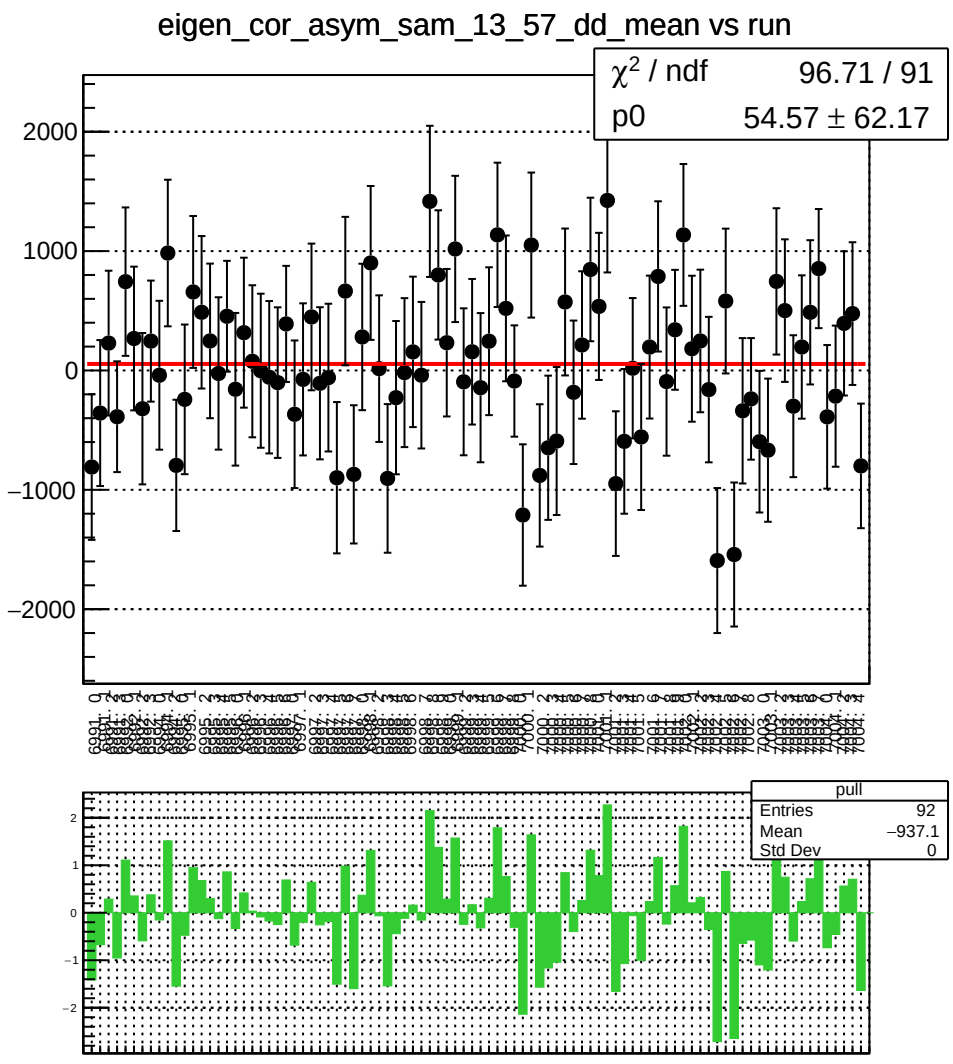

pull1D
Entries 92
Mean 0.0008768
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

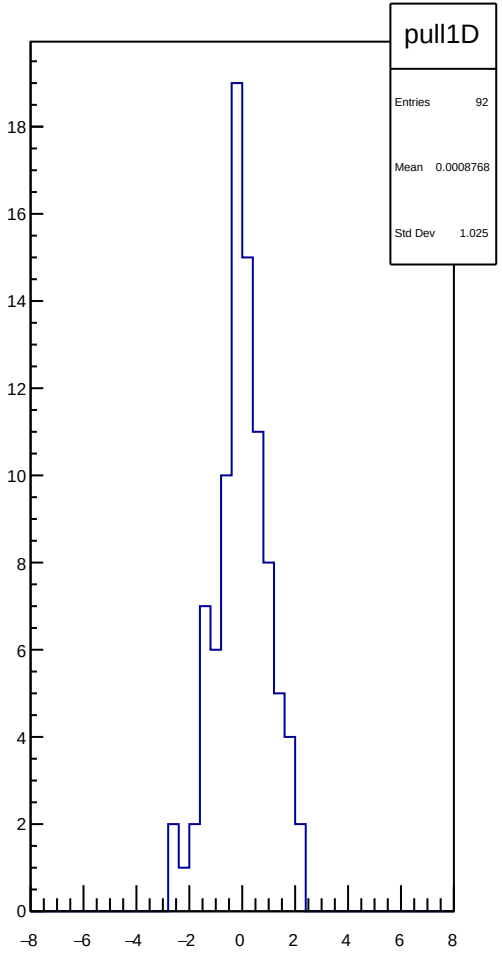

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1028 / 91
p0 58.39 ± 0.04396
62
61
60
59
58
57
56
55

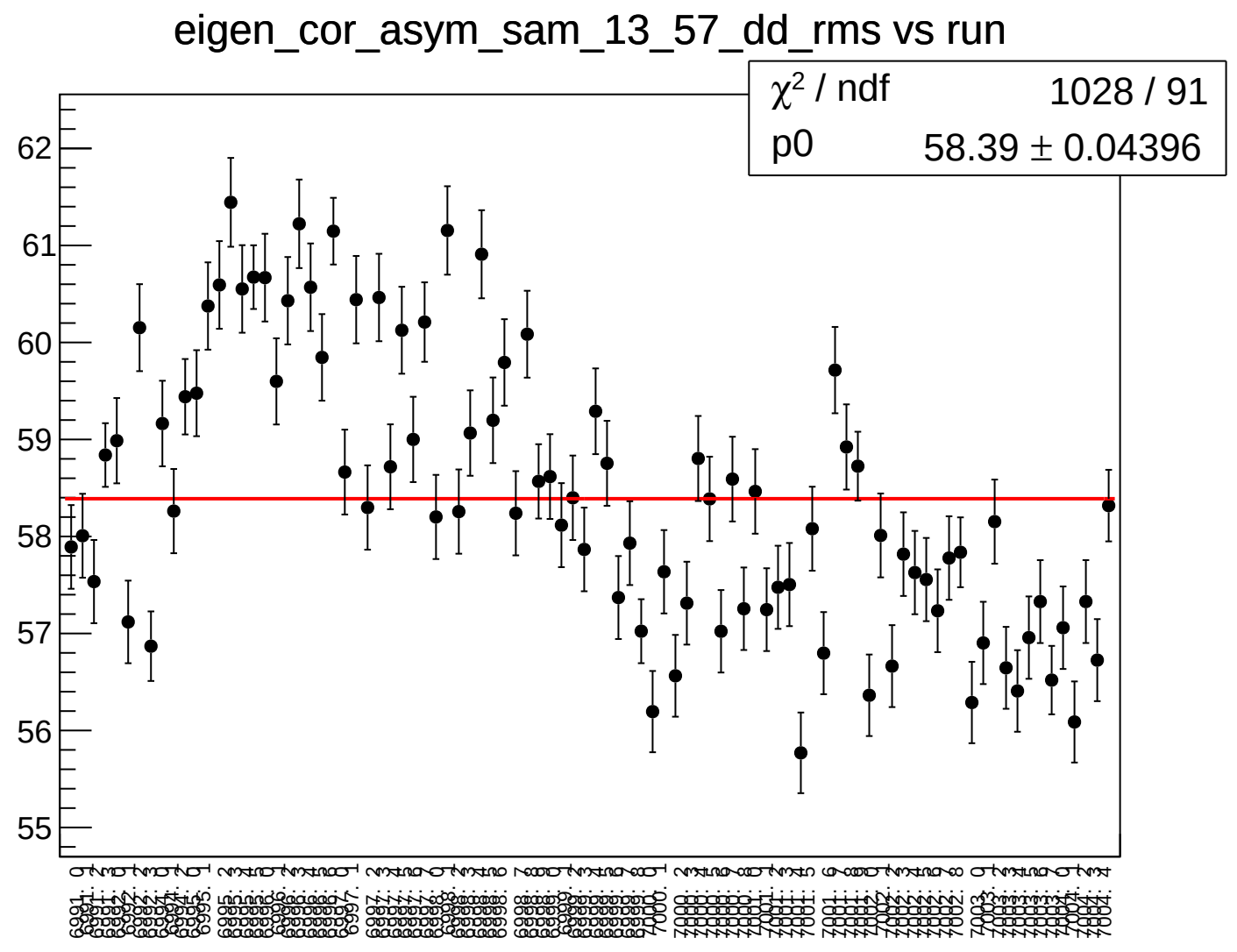

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 78.58 / 91
p0 −316.6 ± 314.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1749
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

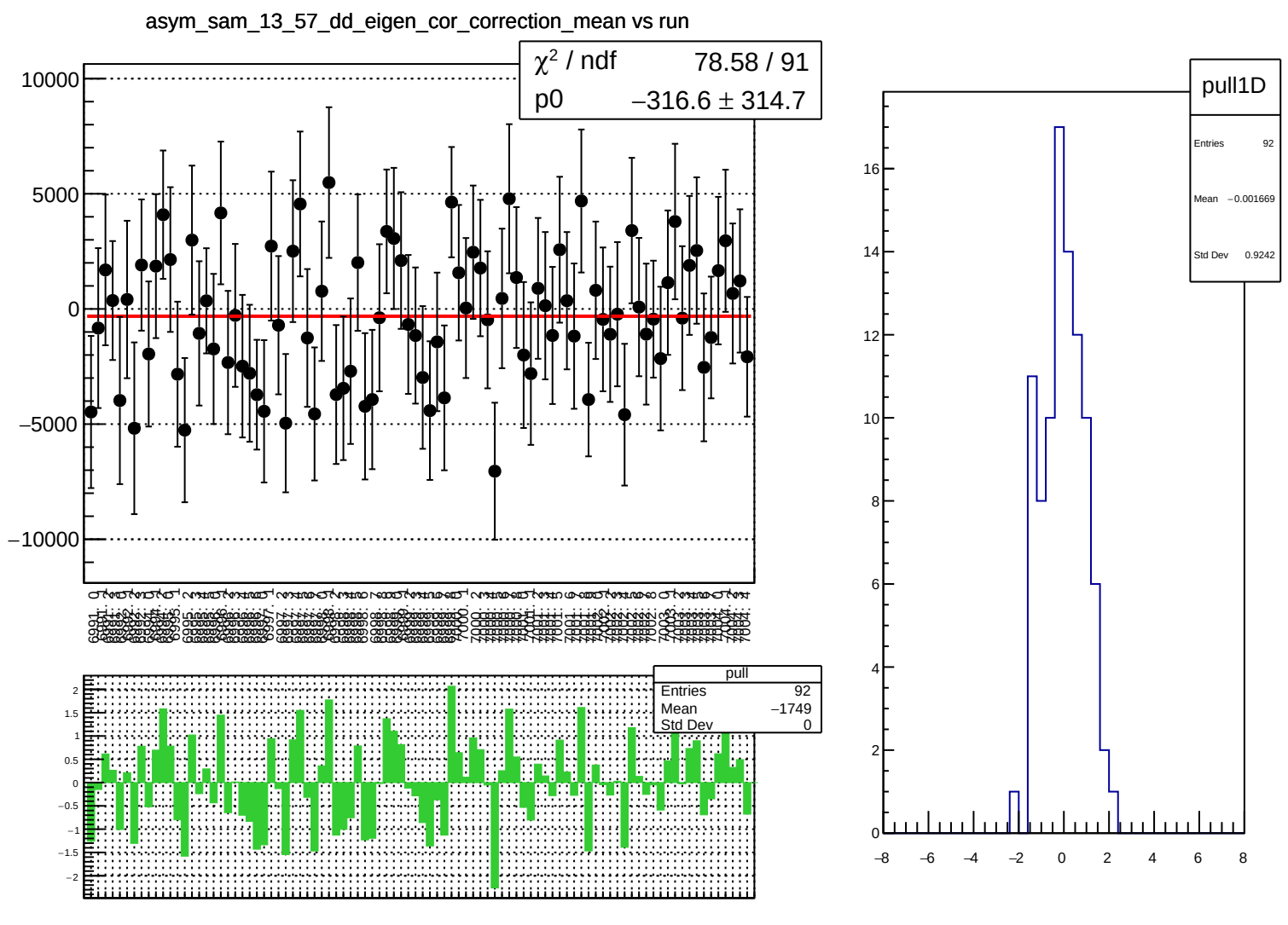

pull1D
Entries 92
Mean −0.001669
Std Dev 0.9242
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

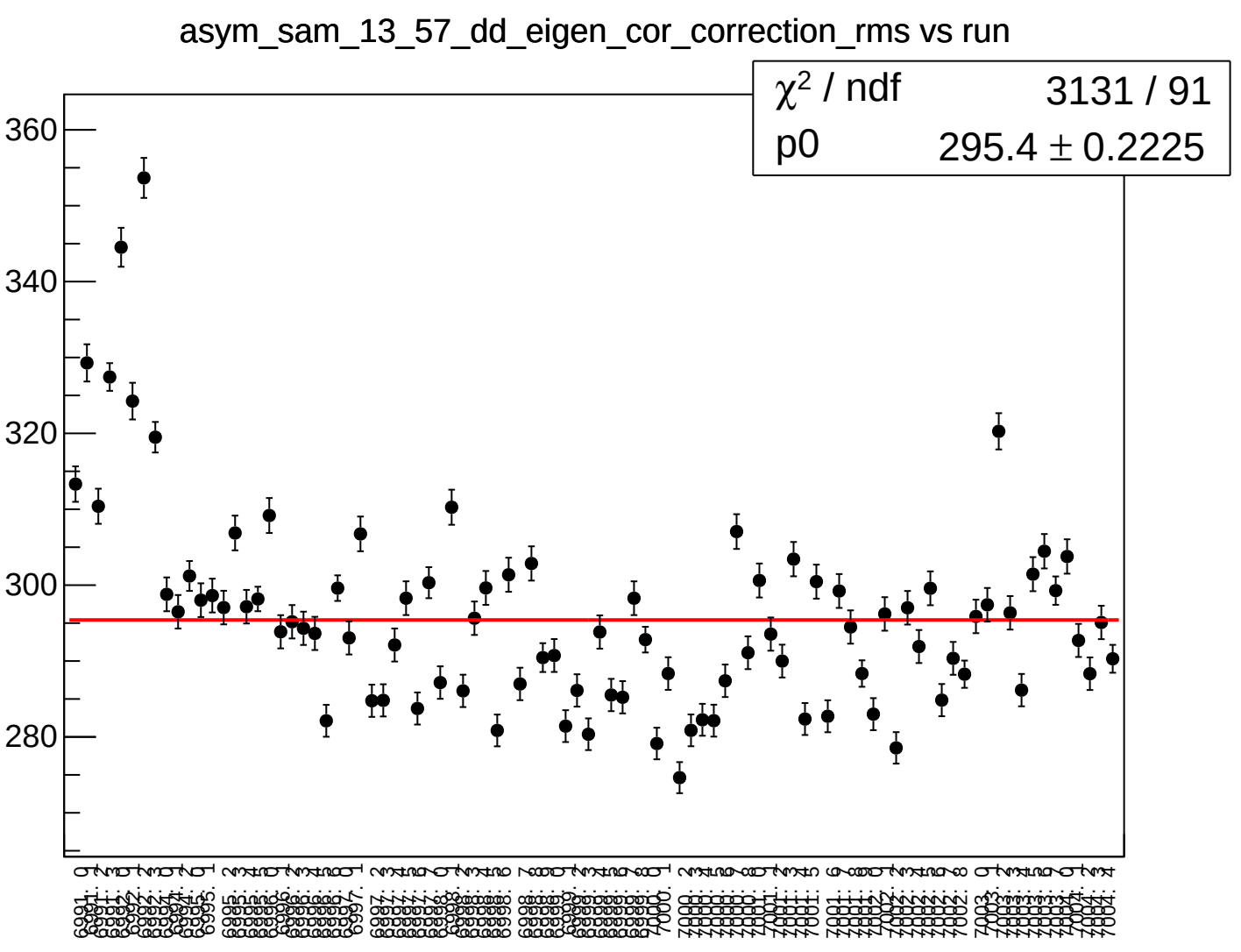

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 3131 / 91
p0 295.4 ± 0.2225
360
340
320
300
280

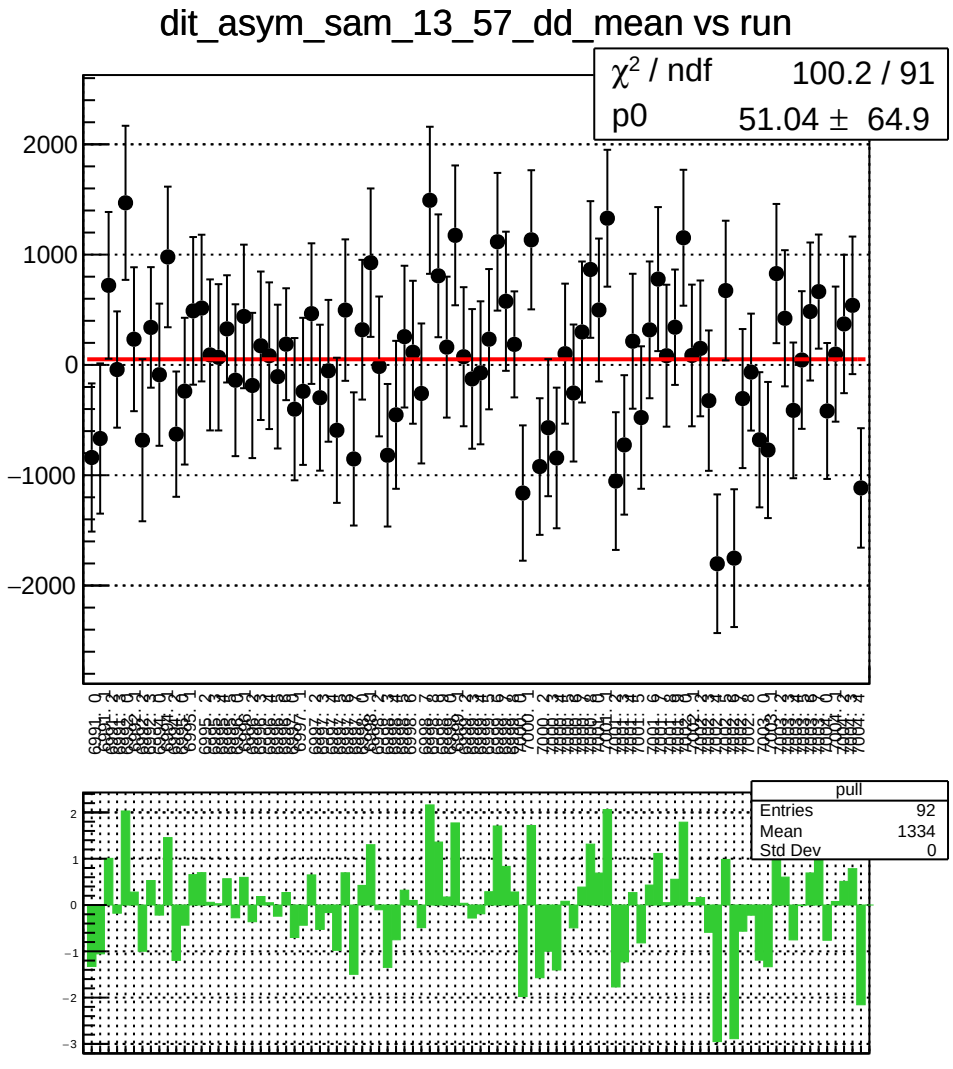

eigen_cor_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 96.71 / 91
p0 54.57 ± 62.17
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −937.1
Std Dev 0
2
1
0
−1

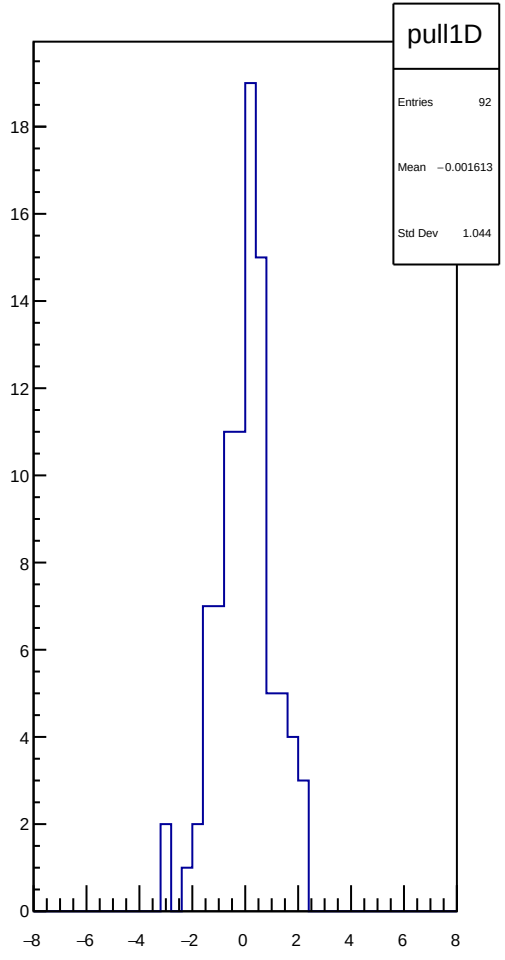

pull1D
Entries 92
Mean 0.0008768
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

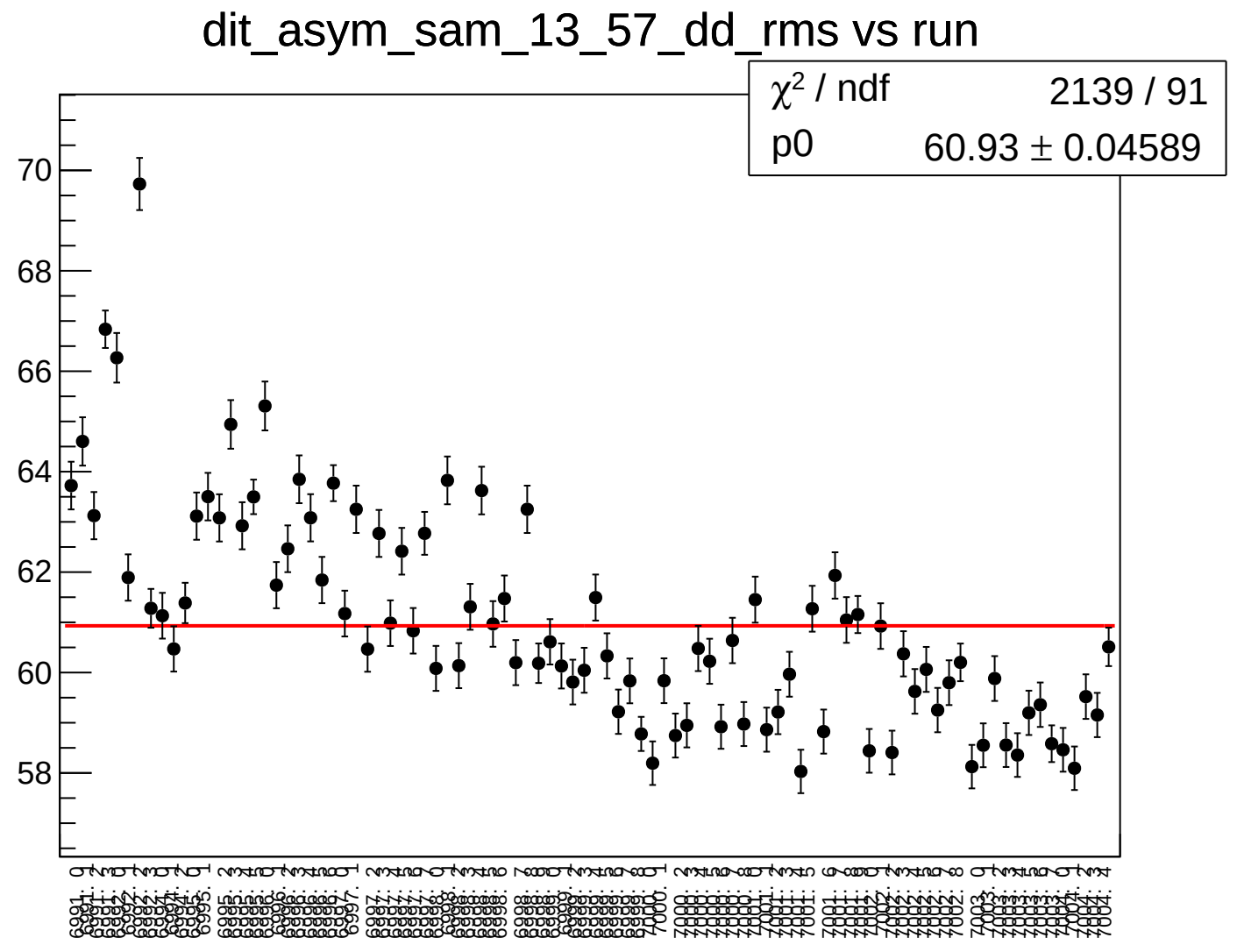

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1028 / 91
p0 58.39 ± 0.04396
62
61
60
59
58
57
56
55

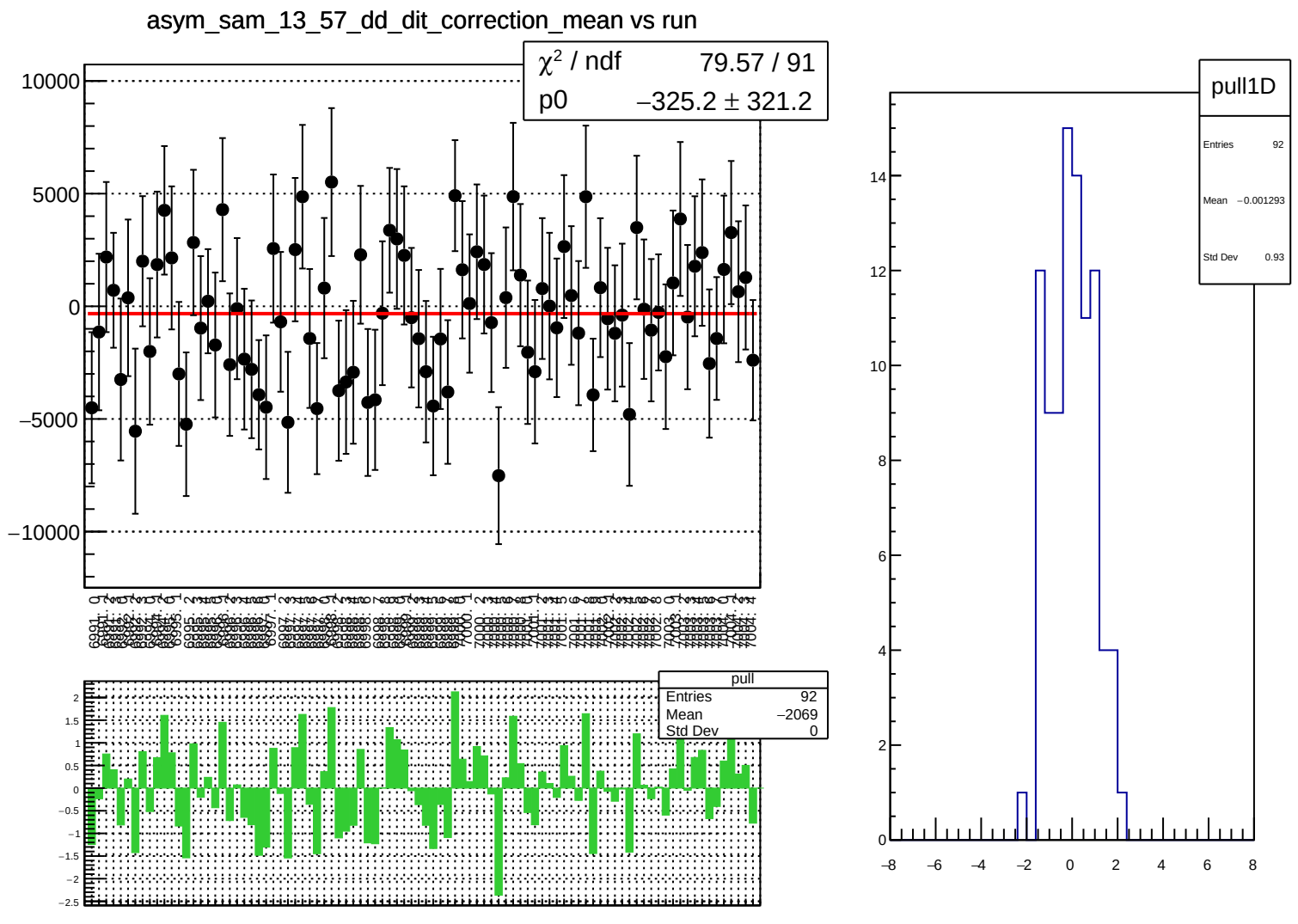

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.58 / 91
p0 −316.6 ± 314.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1749
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.001669
Std Dev 0.9242
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

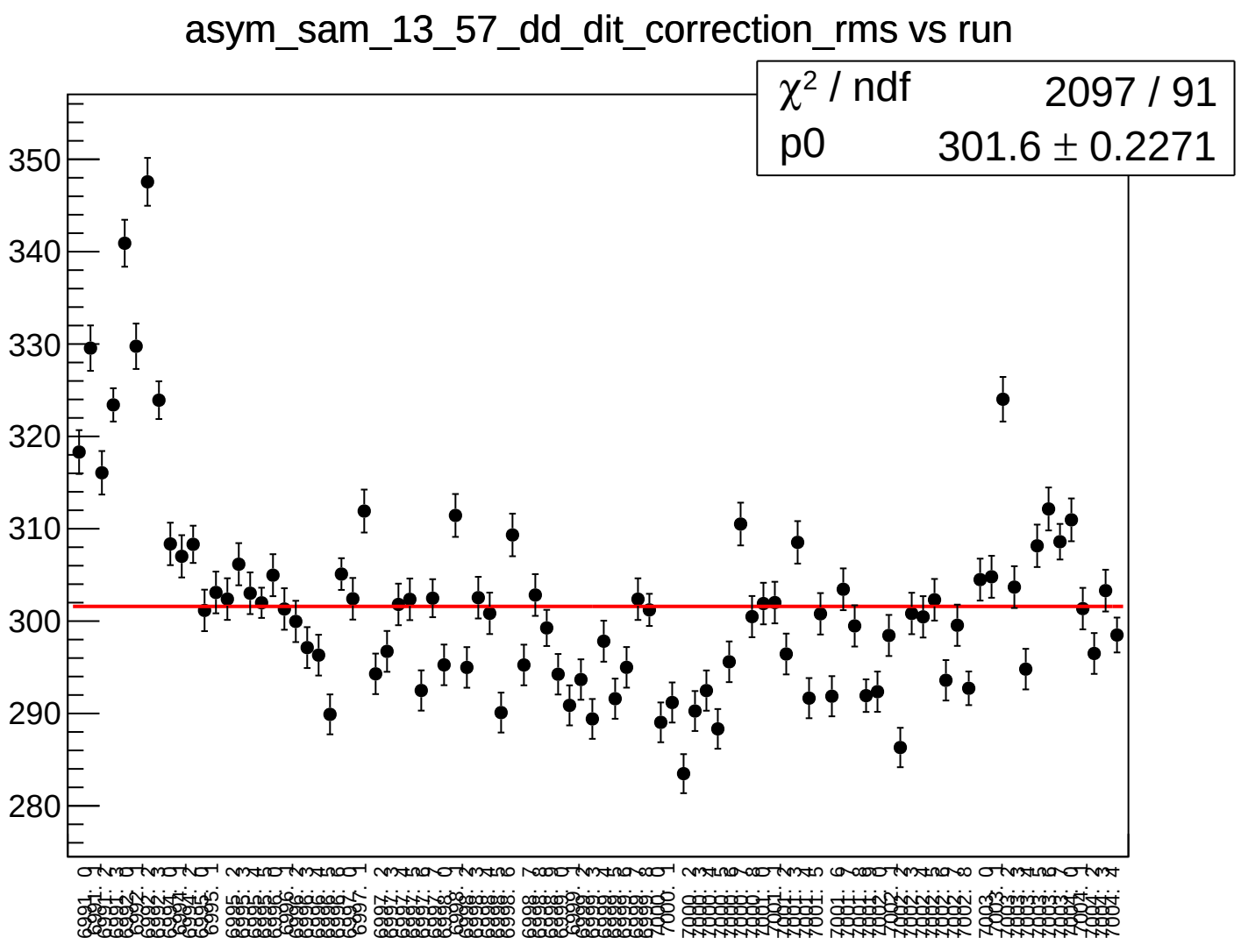

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 3131 / 91
p0 295.4 ± 0.2225
360
340
320
300
280

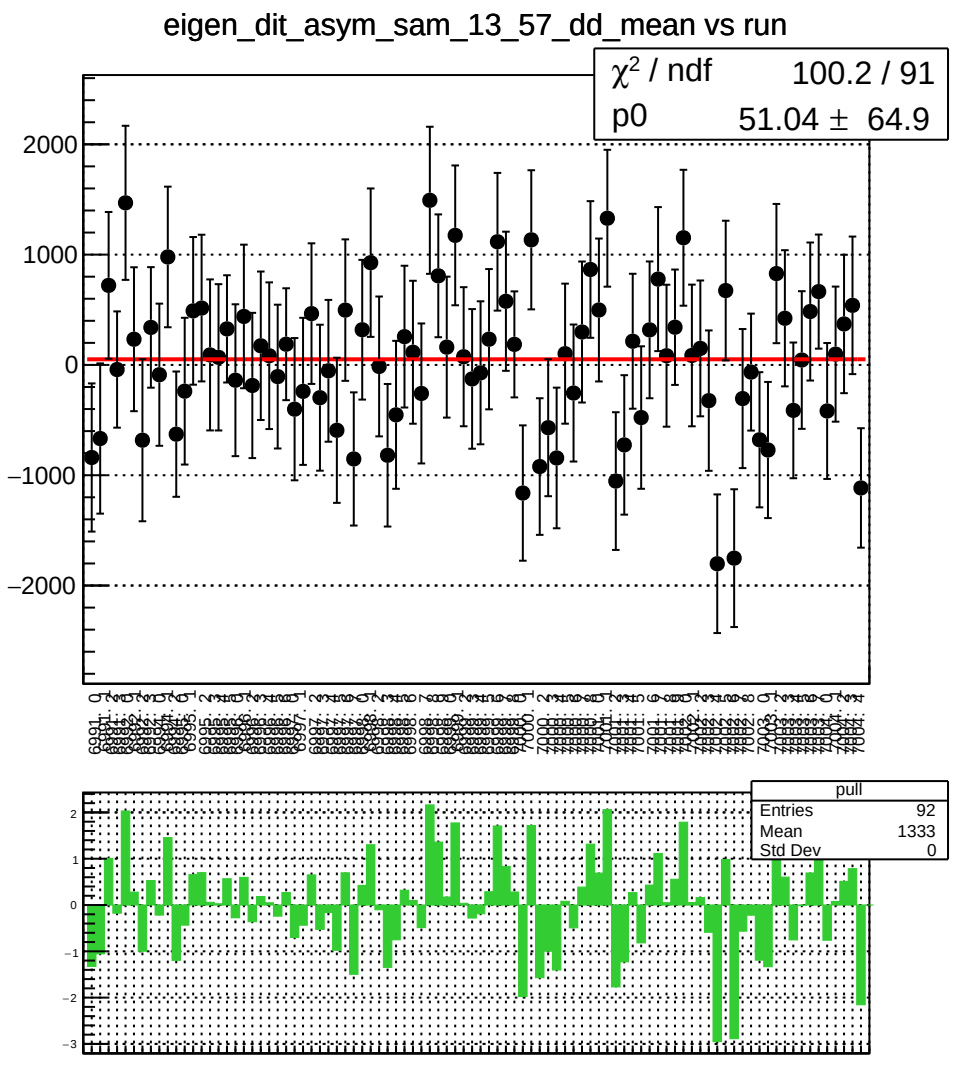

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 100.2 / 91
p0 51.04 ± 64.9
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 1334
Std Dev 0
2
1
0
−1
−2
−3

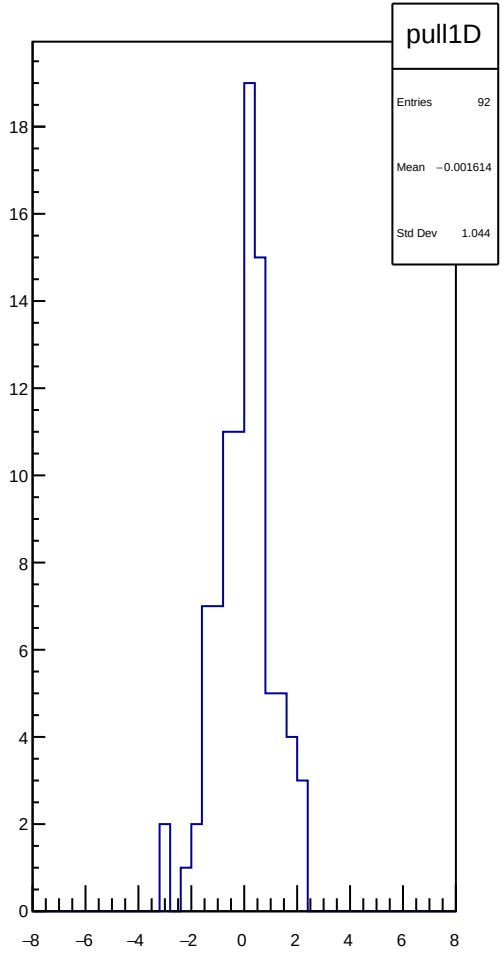

pull1D
Entries 92
Mean −0.001613
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

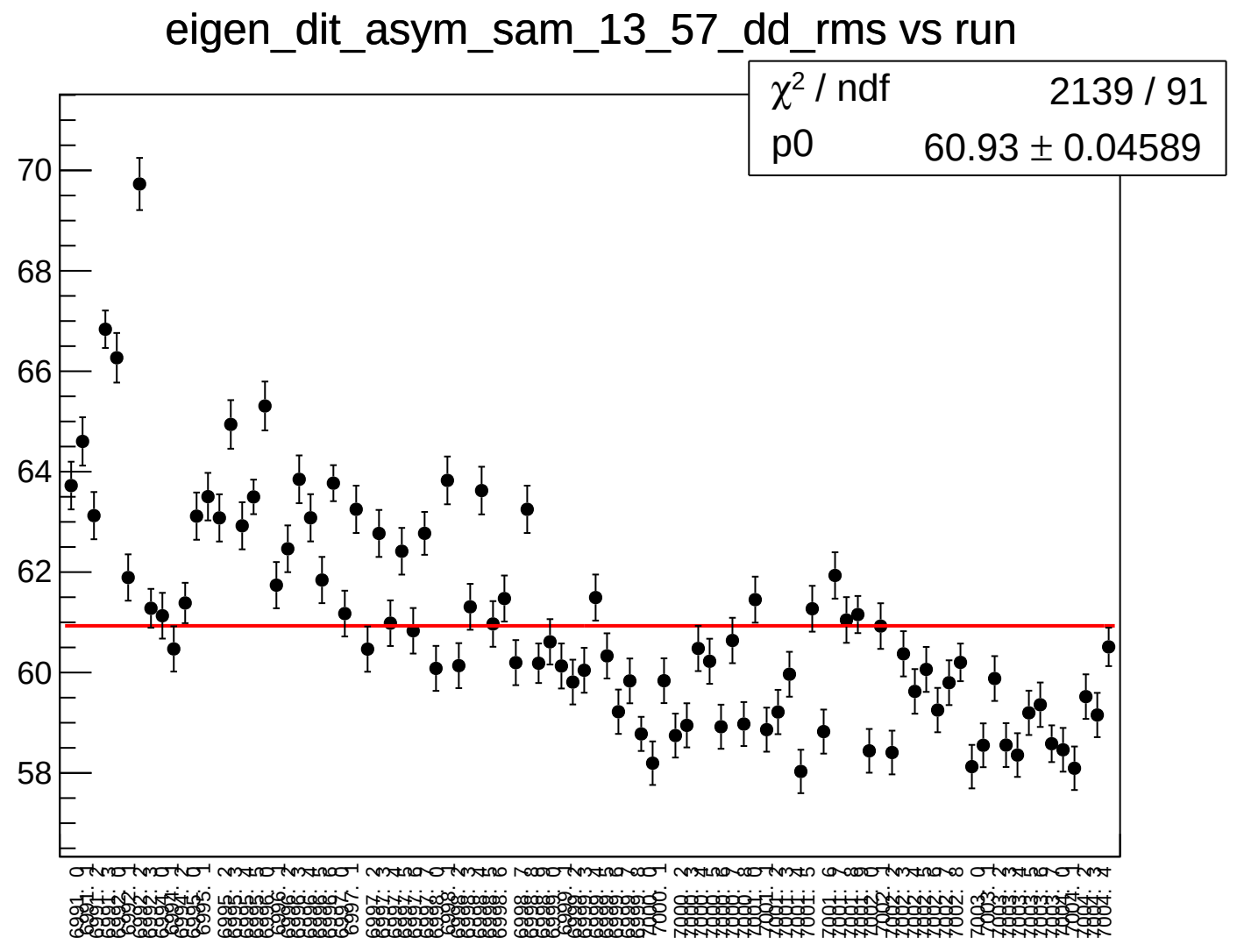

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2139 / 91
p0 60.93 ± 0.04589
70
68
66
64
62
60
58

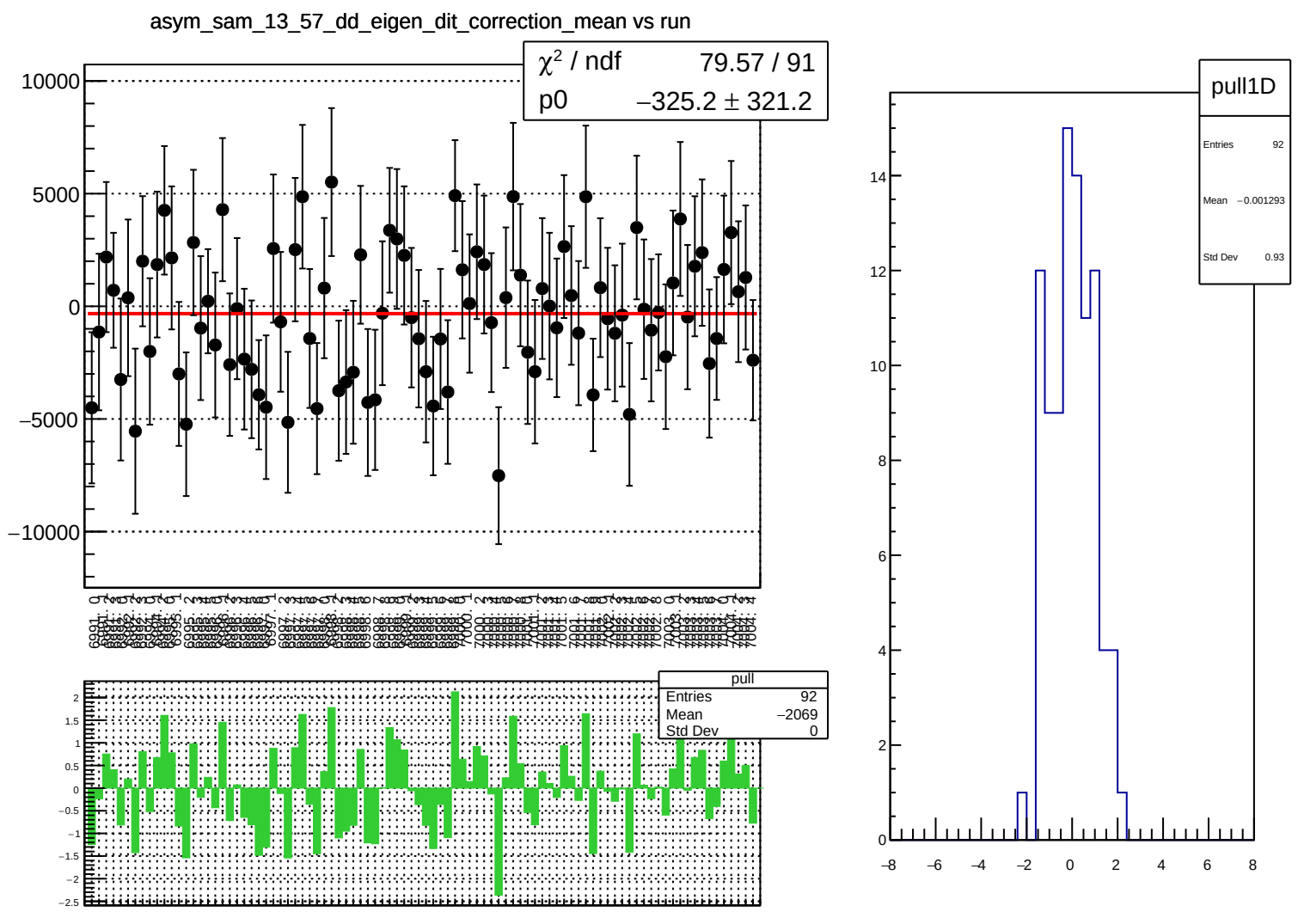

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 79.57 / 91
p0 −325.2 ± 321.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −2069
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.001293
Std Dev 0.93
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

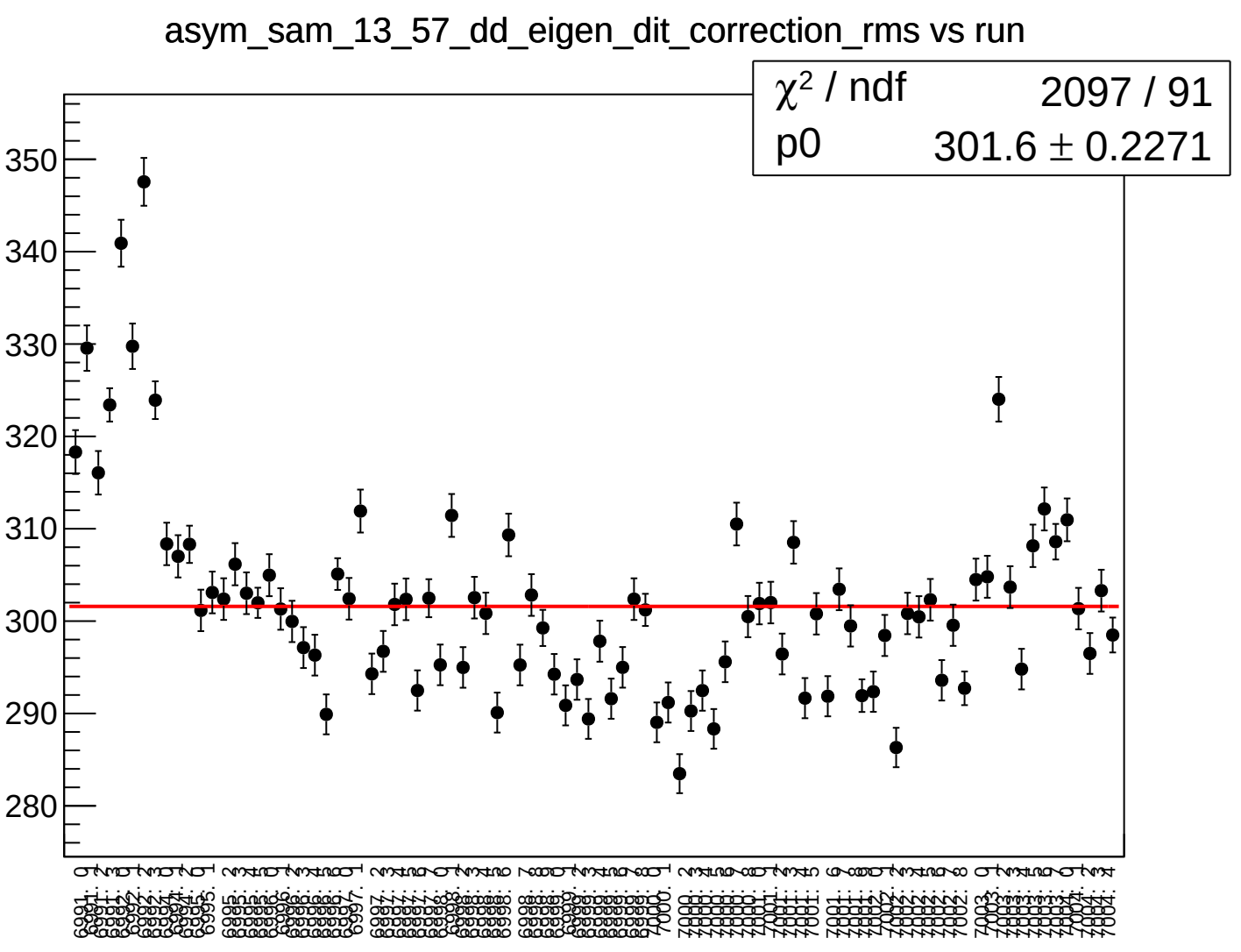

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2097 / 91
p0 301.6 ± 0.2271
350
340
330
320
310
300
290
280

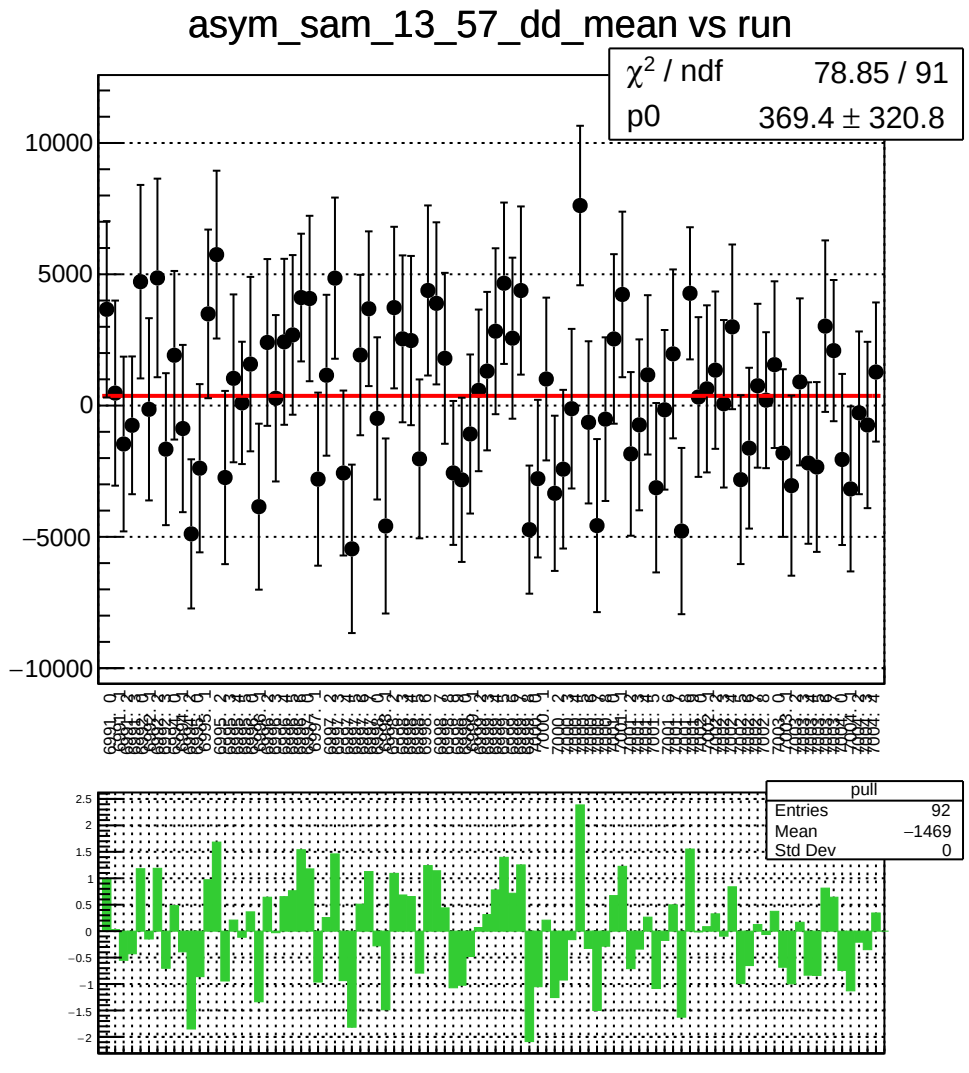

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 100.2 / 91
p0 51.04 ± 64.9
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 1333
Std Dev 0
2
1
0
−1
−2
−3

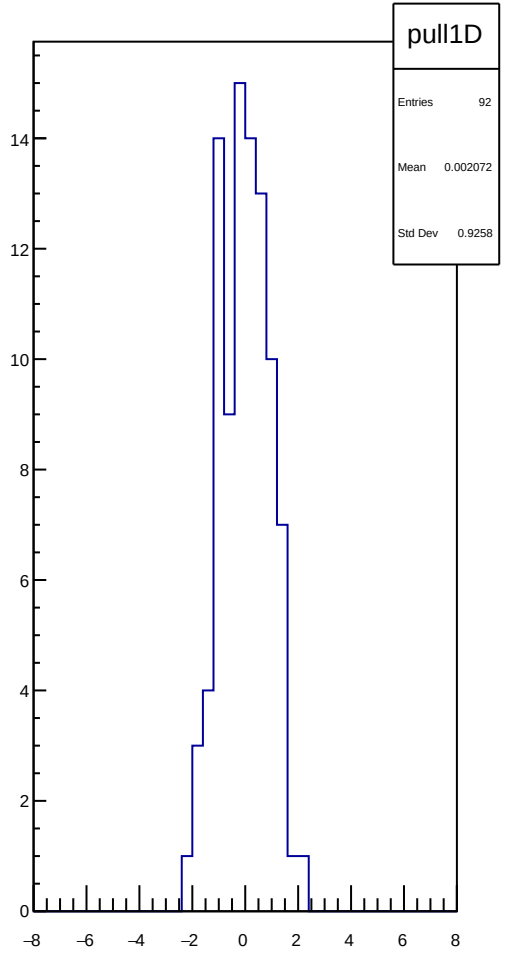

pull1D
Entries 92
Mean −0.001614
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

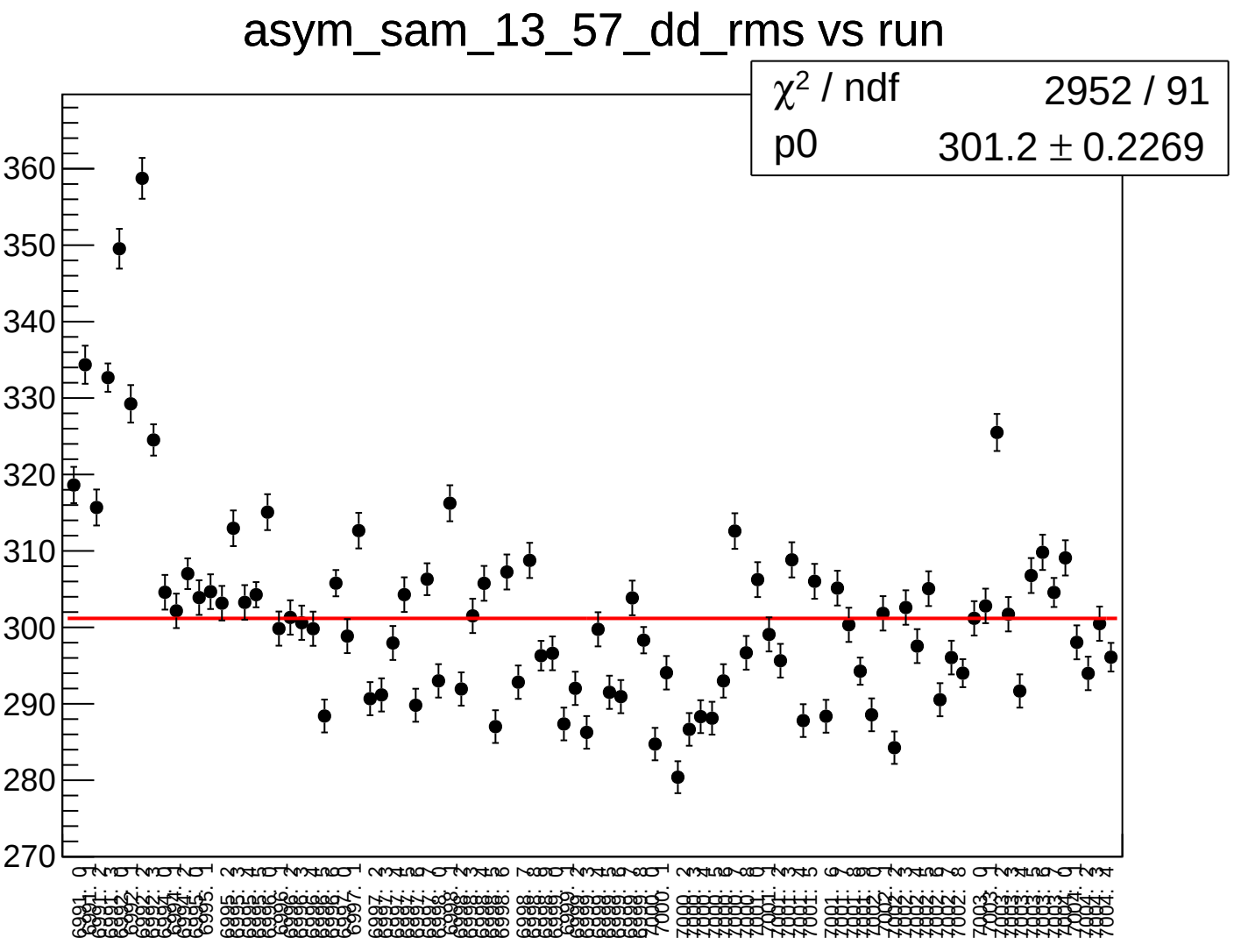

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2139 / 91
p0 60.93 ± 0.04589
70
68
66
64
62
60
58

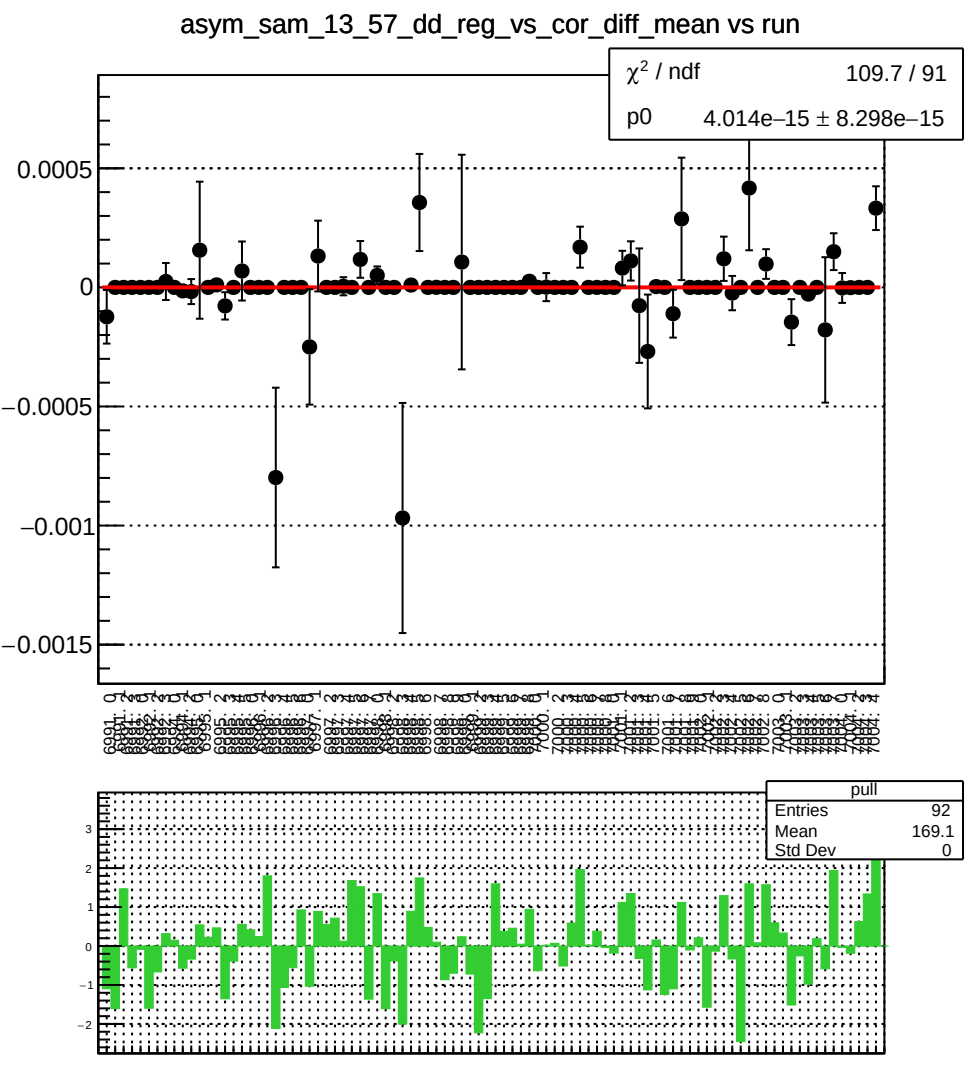

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.57 / 91
p0 −325.2 ± 321.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −2069
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.001293
Std Dev 0.93
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

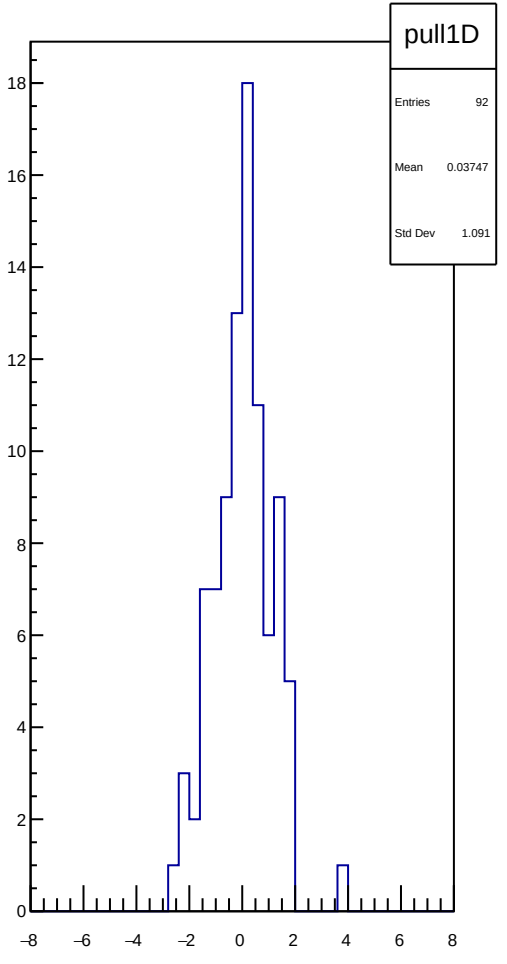

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2097 / 91
p0 301.6 ± 0.2271
350
340
330
320
310
300
290
280

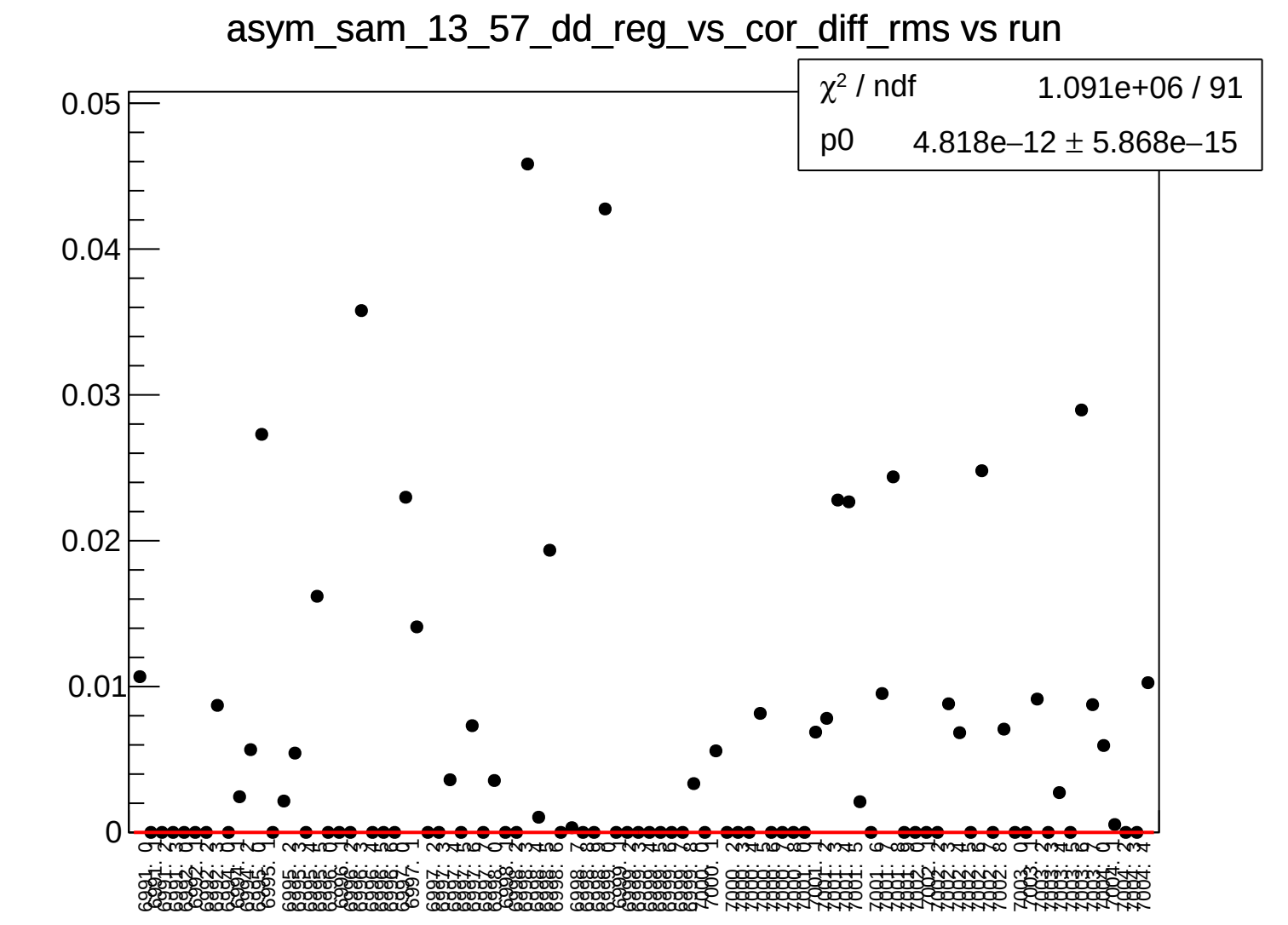

asym_sam_13_57_dd_mean vs run
χ² / ndf 78.85 / 91
p0 369.4 ± 320.8
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1469
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

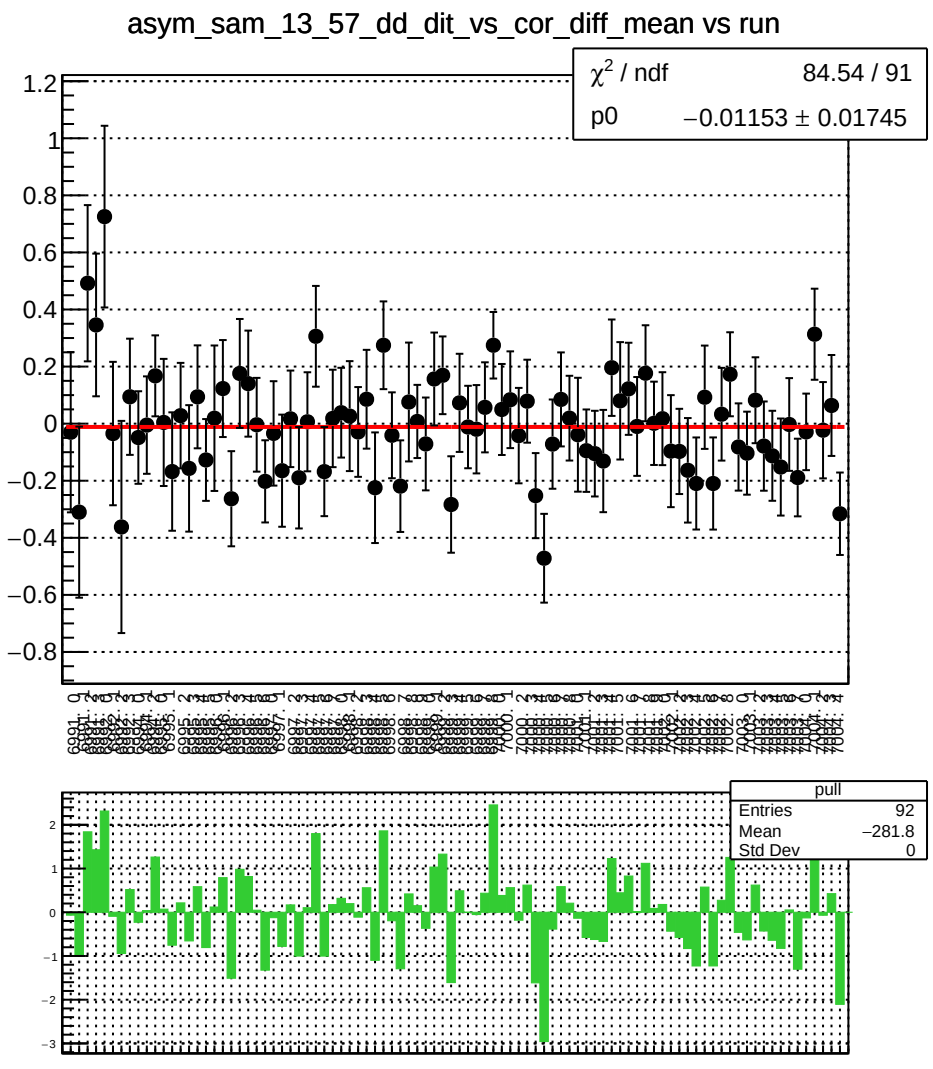

pull1D
Entries 92
Mean 0.002072
Std Dev 0.9258
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

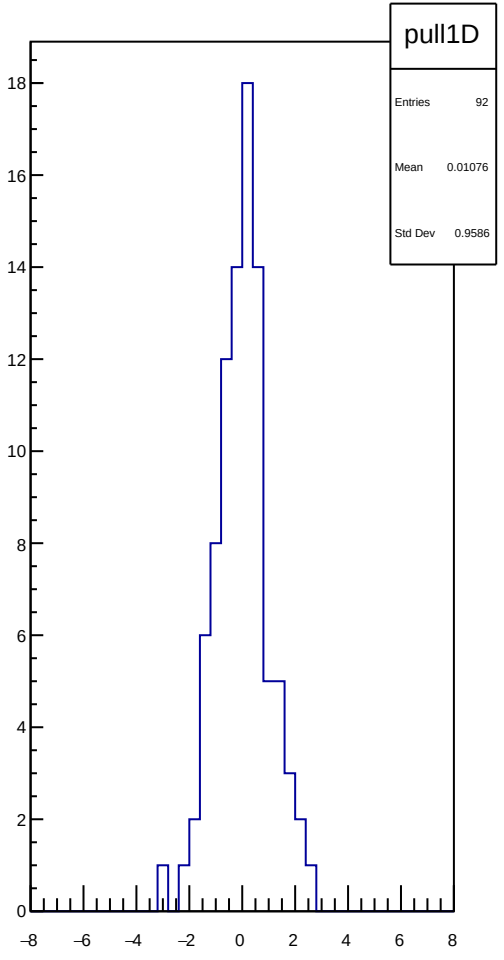

asym_sam_13_57_dd_rms vs run
χ² / ndf 2952 / 91
p0 301.2 ± 0.2269
360
350
340
330
320
310
300
290
280
270

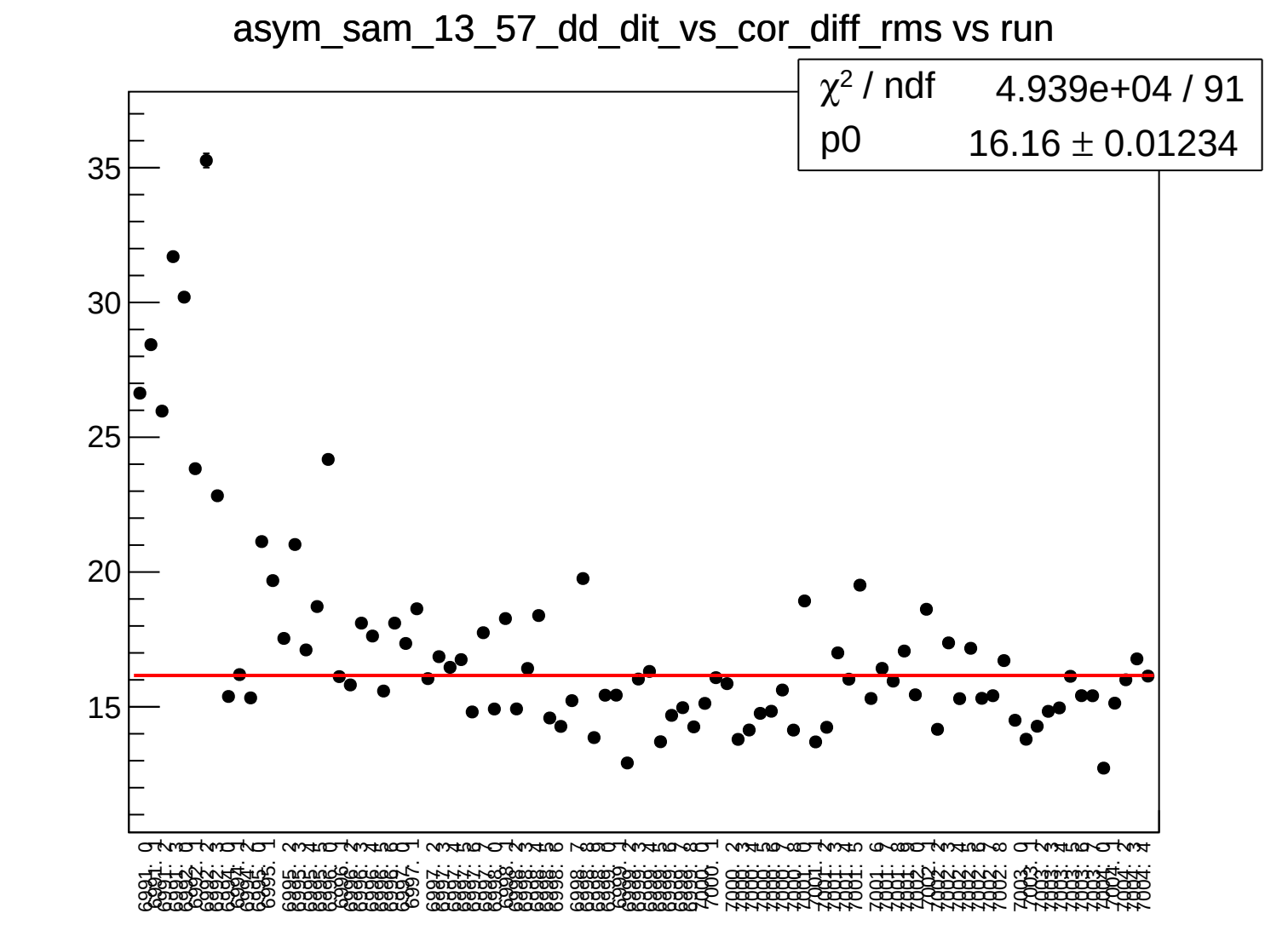

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 91
p0 4.014e−15 ± 8.298e−15
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 169.1
Std Dev 0

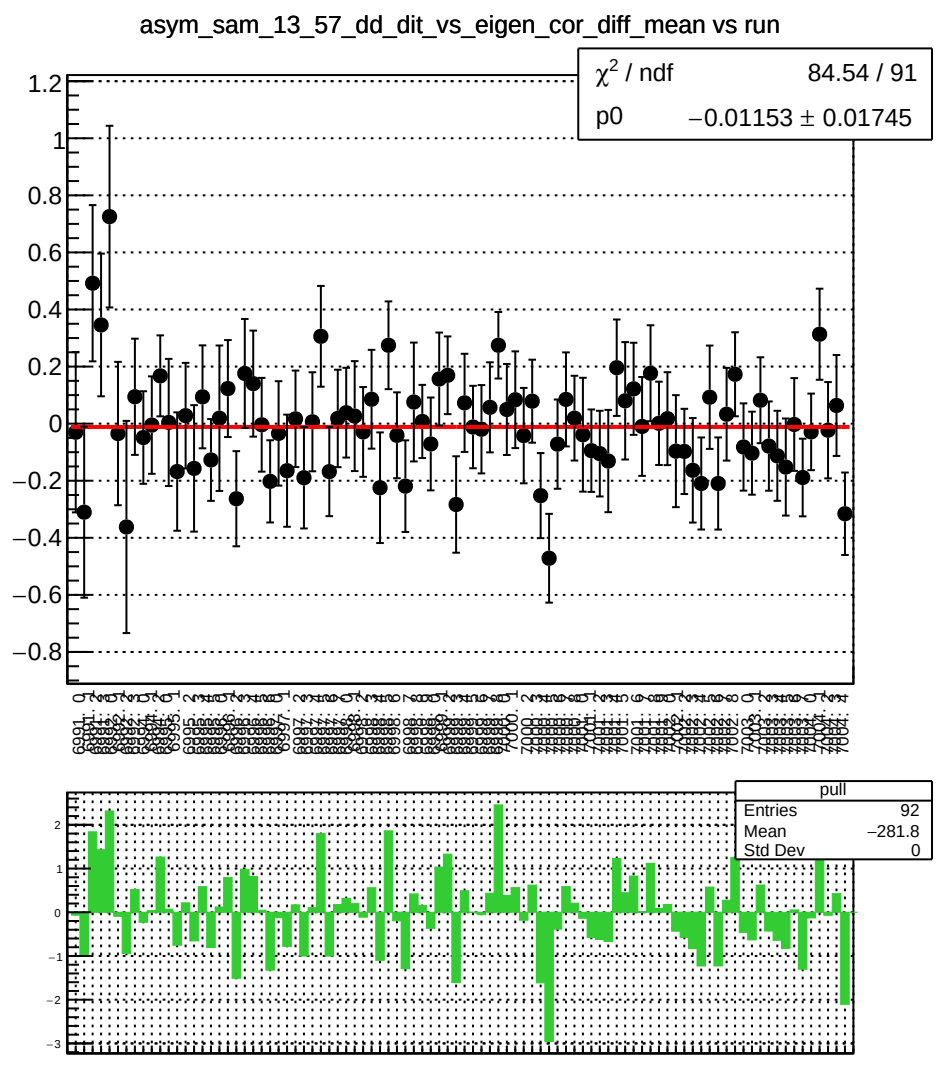

pull1D
Entries 92
Mean 0.03747
Std Dev 1.091

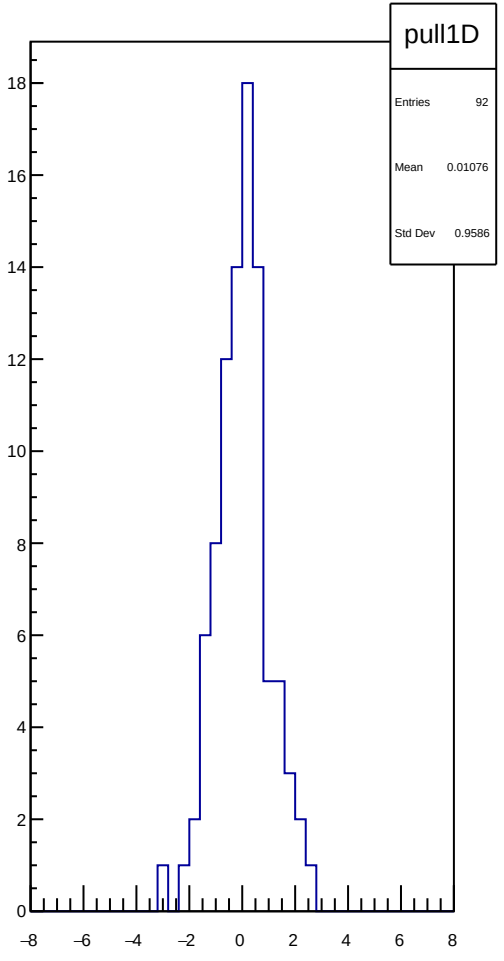

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 91
p0 4.818e−12 ± 5.868e−15
0.05
0.04
0.03
0.02
0.01
0

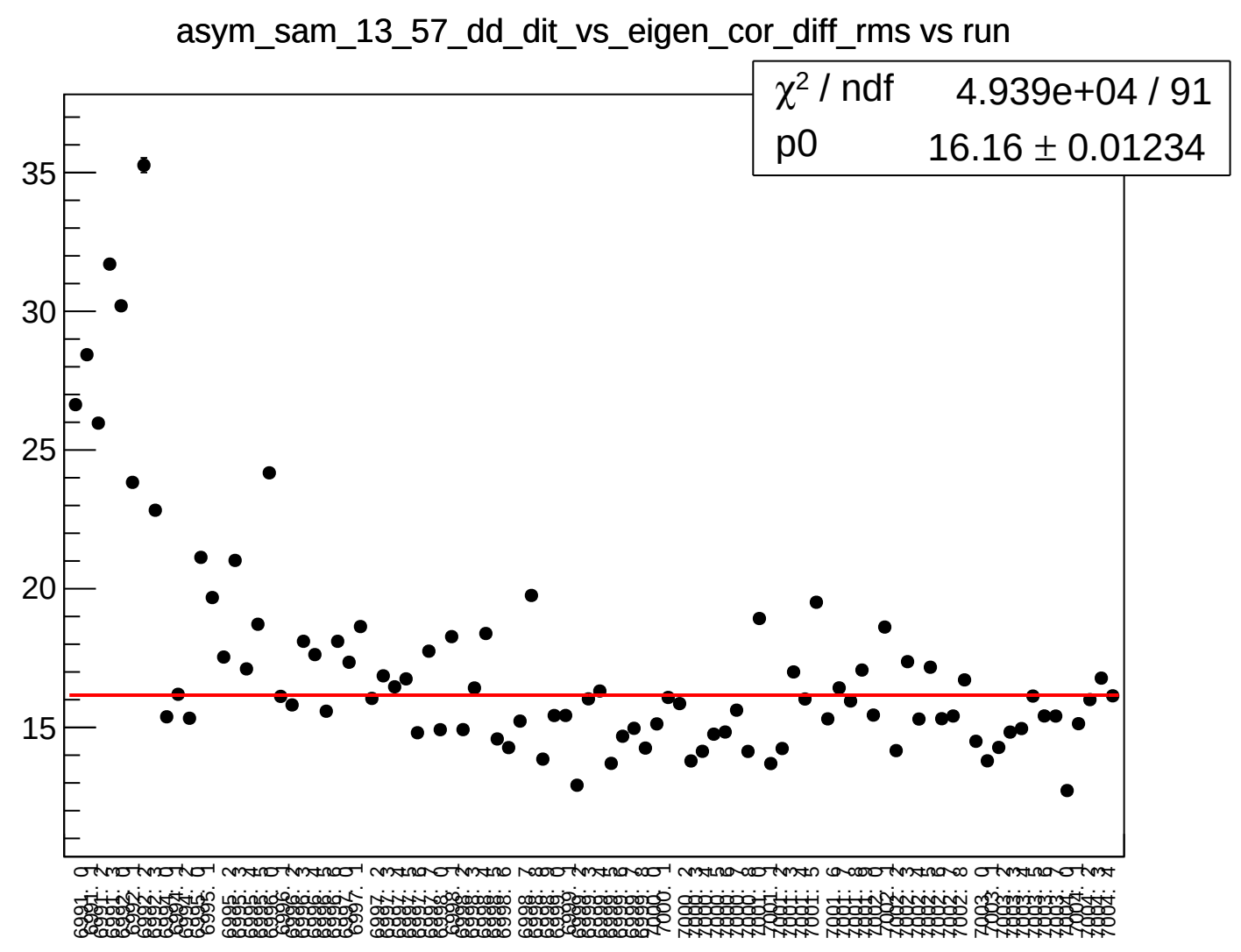

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.54 / 91
p0 −0.01153 ± 0.01745
pull
Entries 92
Mean −281.8
Std Dev 0

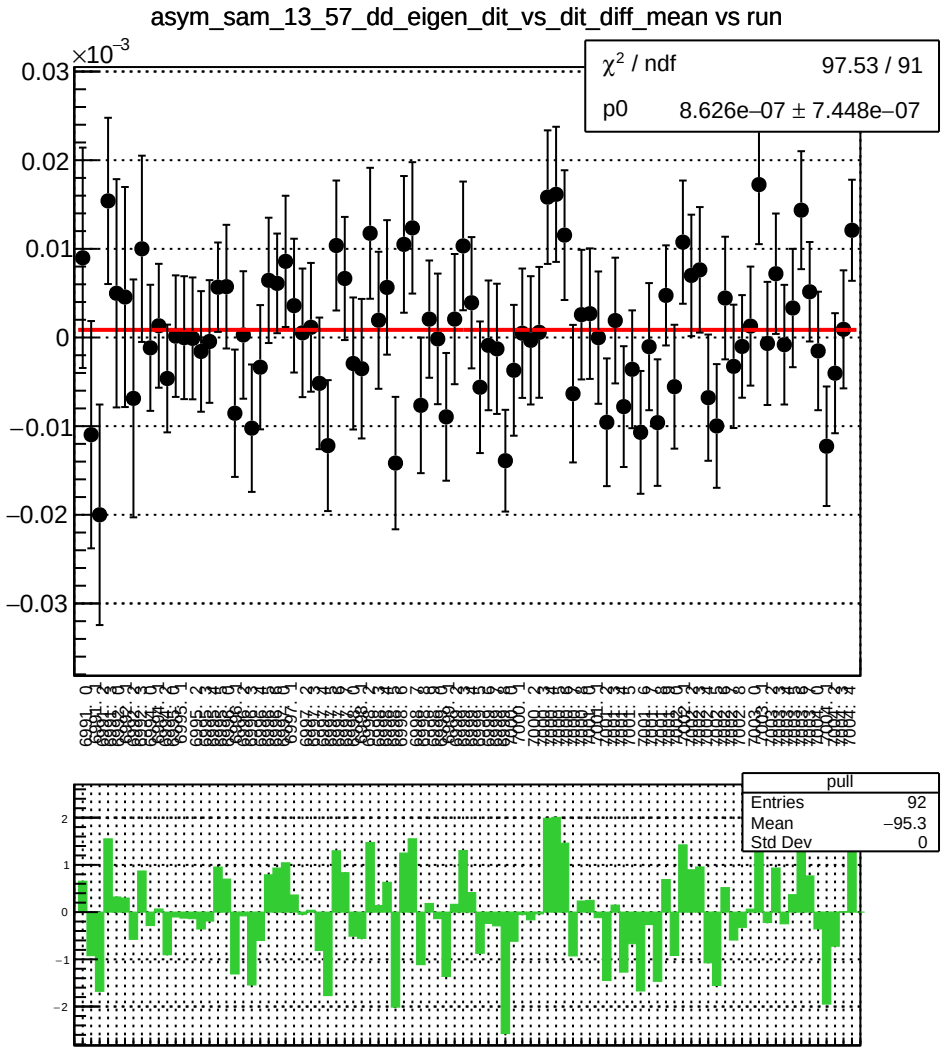

pull1D
Entries 92
Mean 0.01076
Std Dev 0.9586

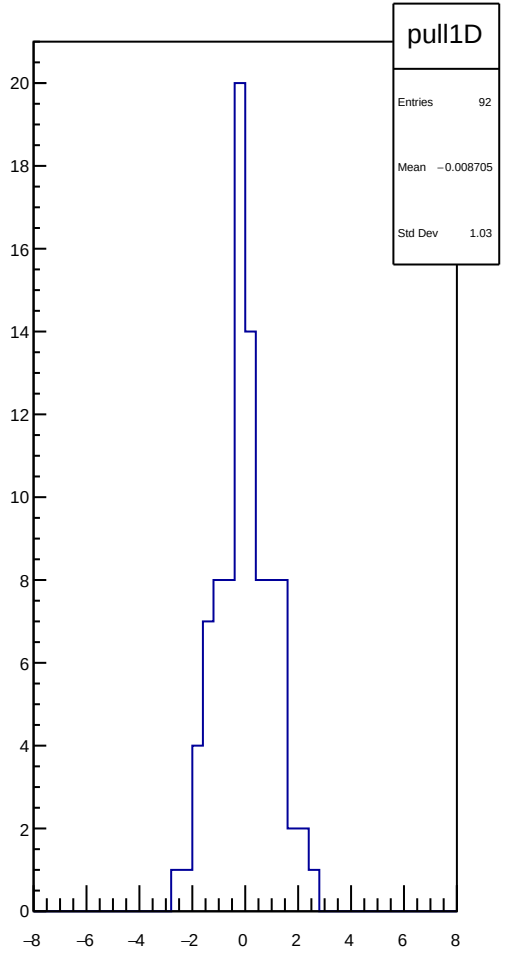

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.939e+04 / 91
p0 16.16 ± 0.01234
35
30
25
20
15

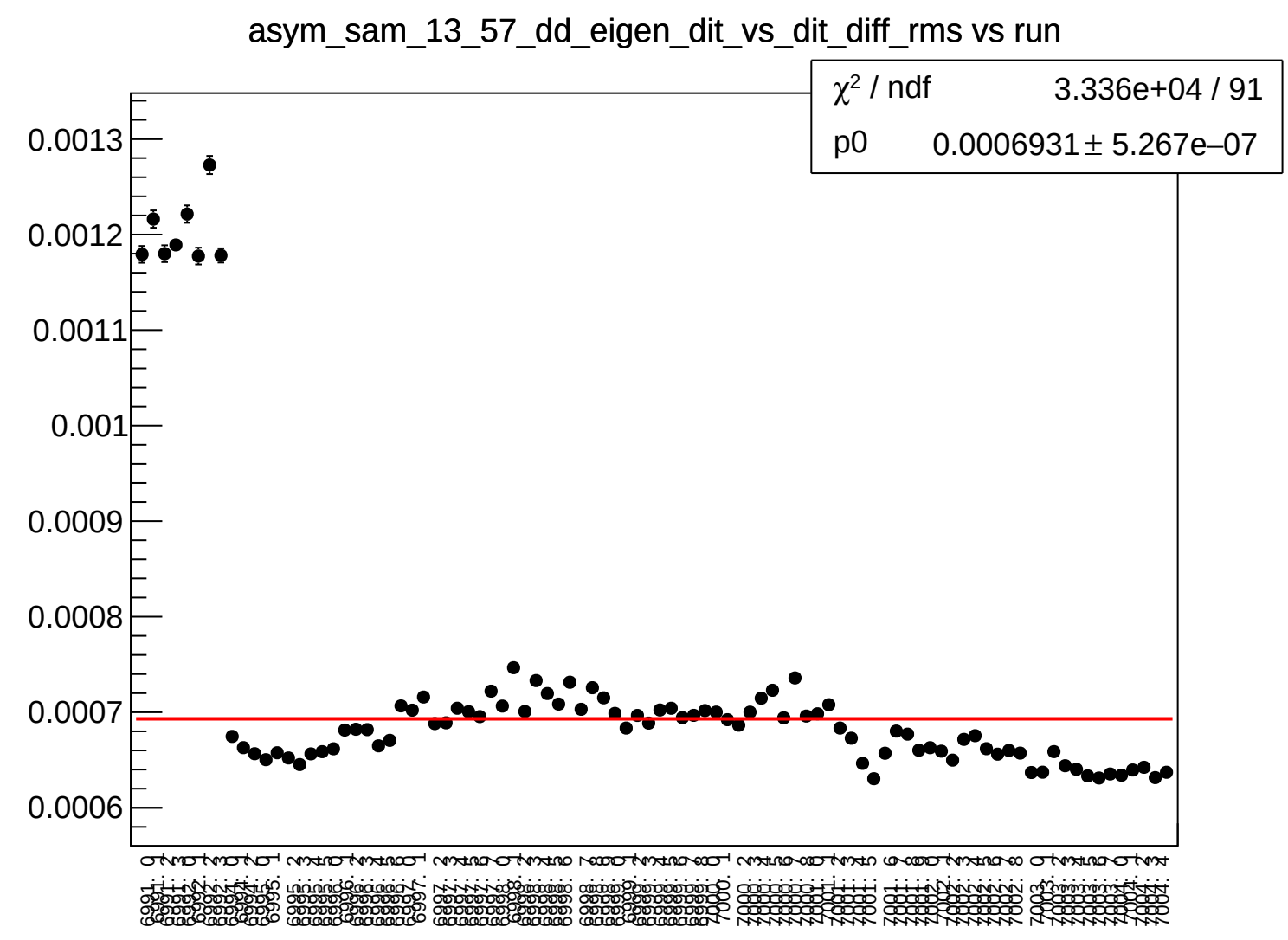

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.54 / 91
p0 −0.01153 ± 0.01745
pull
Entries 92
Mean −281.8
Std Dev 0

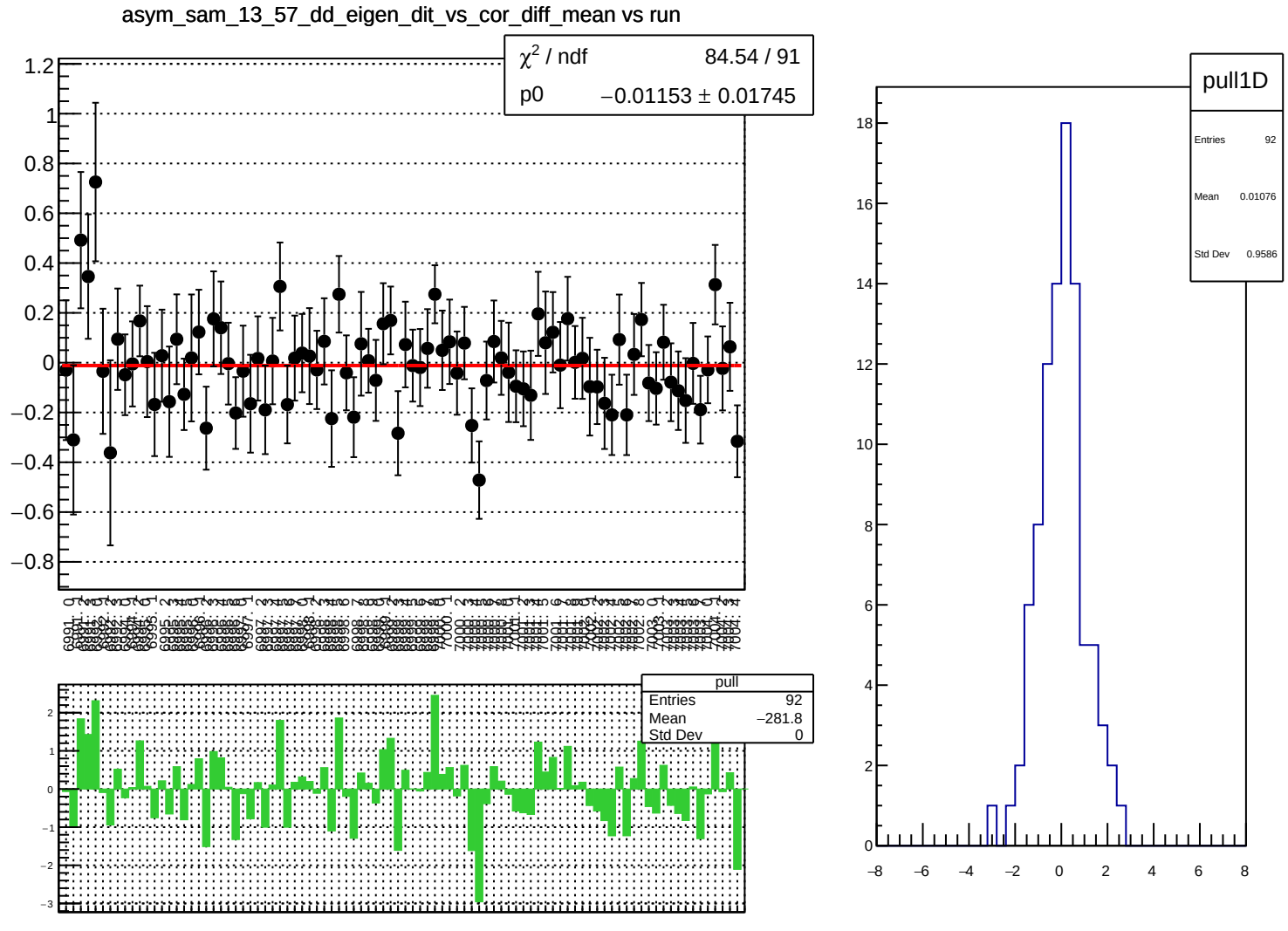

pull1D
Entries 92
Mean 0.01076
Std Dev 0.9586

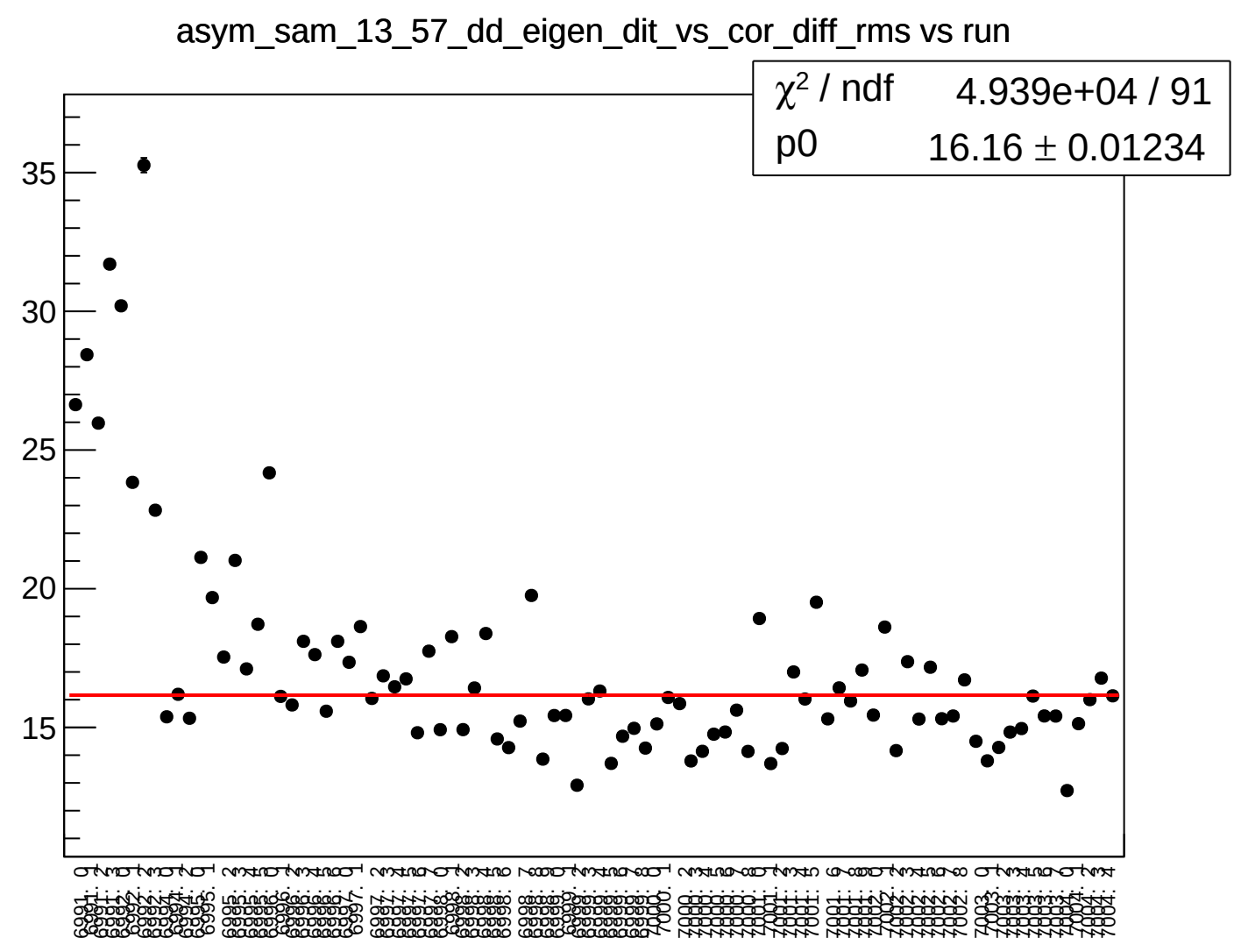

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.939e+04 / 91
p0 16.16 ± 0.01234
35
30
25
20
15

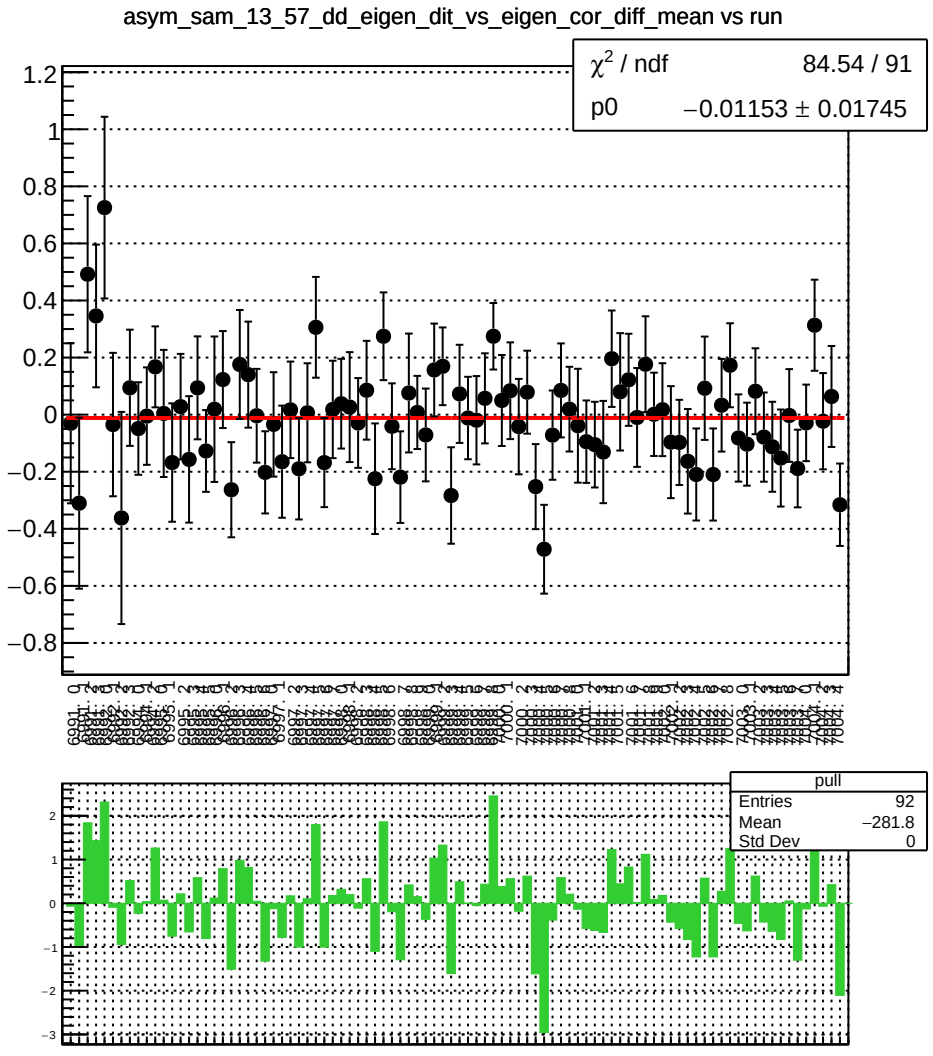

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.53 / 91
p0 8.626e−07 ± 7.448e−07
pull
Entries 92
Mean −95.3
Std Dev 0

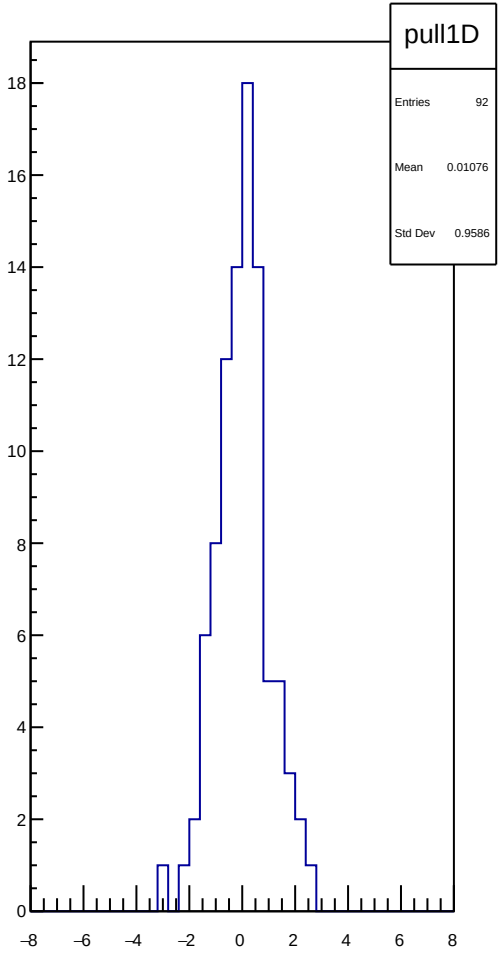

pull1D
Entries 92
Mean −0.008705
Std Dev 1.03

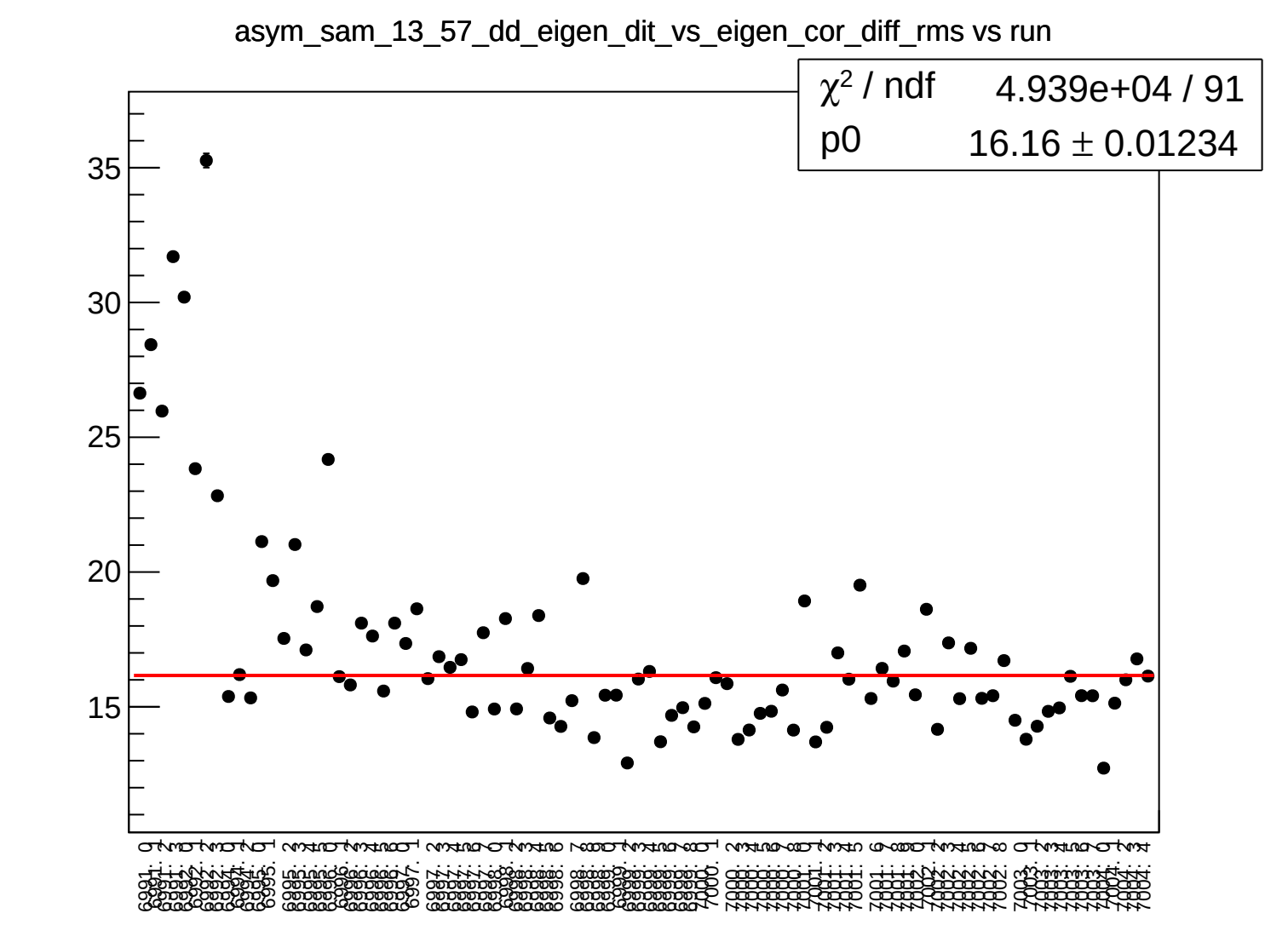

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.336e+04 / 91
p0 0.0006931 ± 5.267e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006

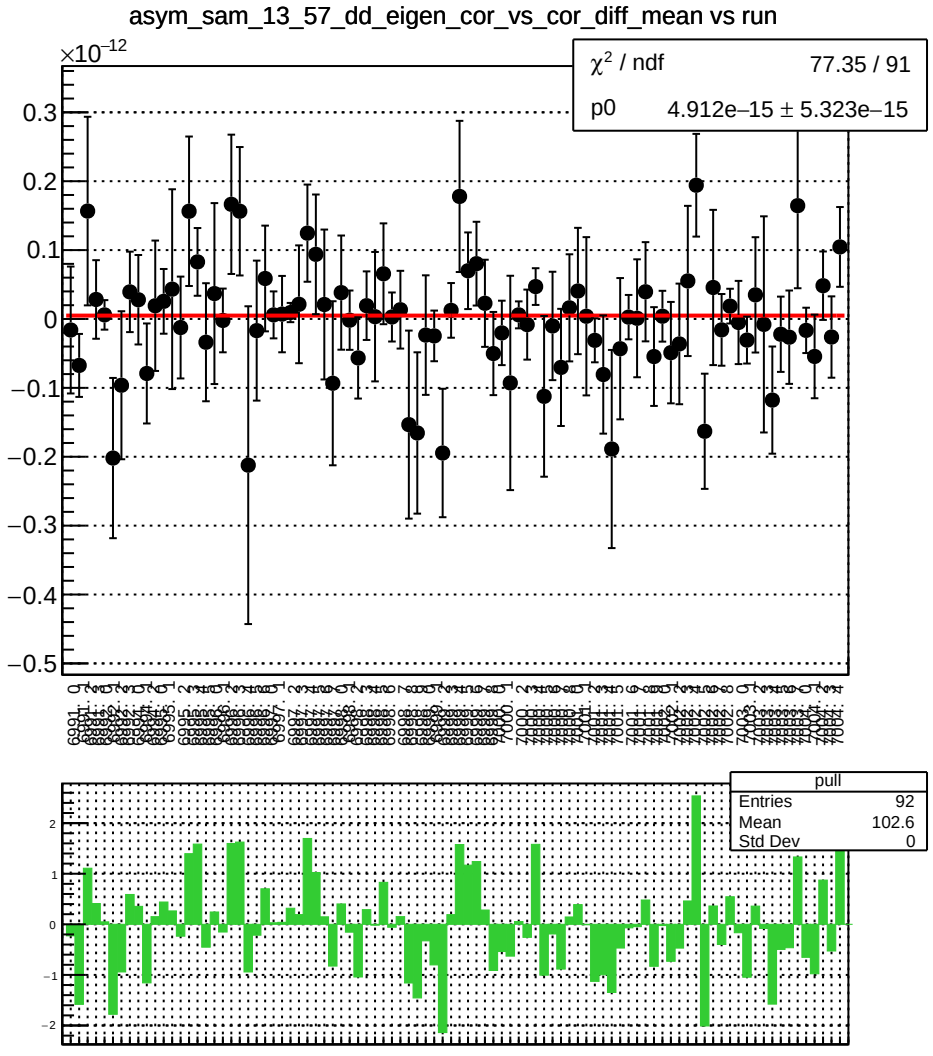

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.54 / 91
p0 −0.01153 ± 0.01745
pull
Entries 92
Mean −281.8
Std Dev 0
pull1D
Entries 92
Mean 0.01076
Std Dev 0.9586

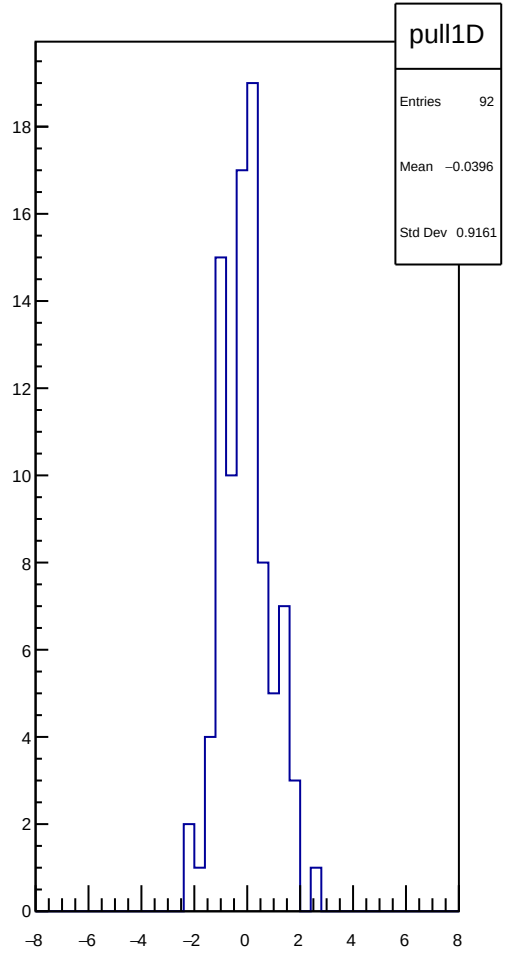

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.939e+04 / 91
p0 16.16 ± 0.01234
35
30
25
20
15

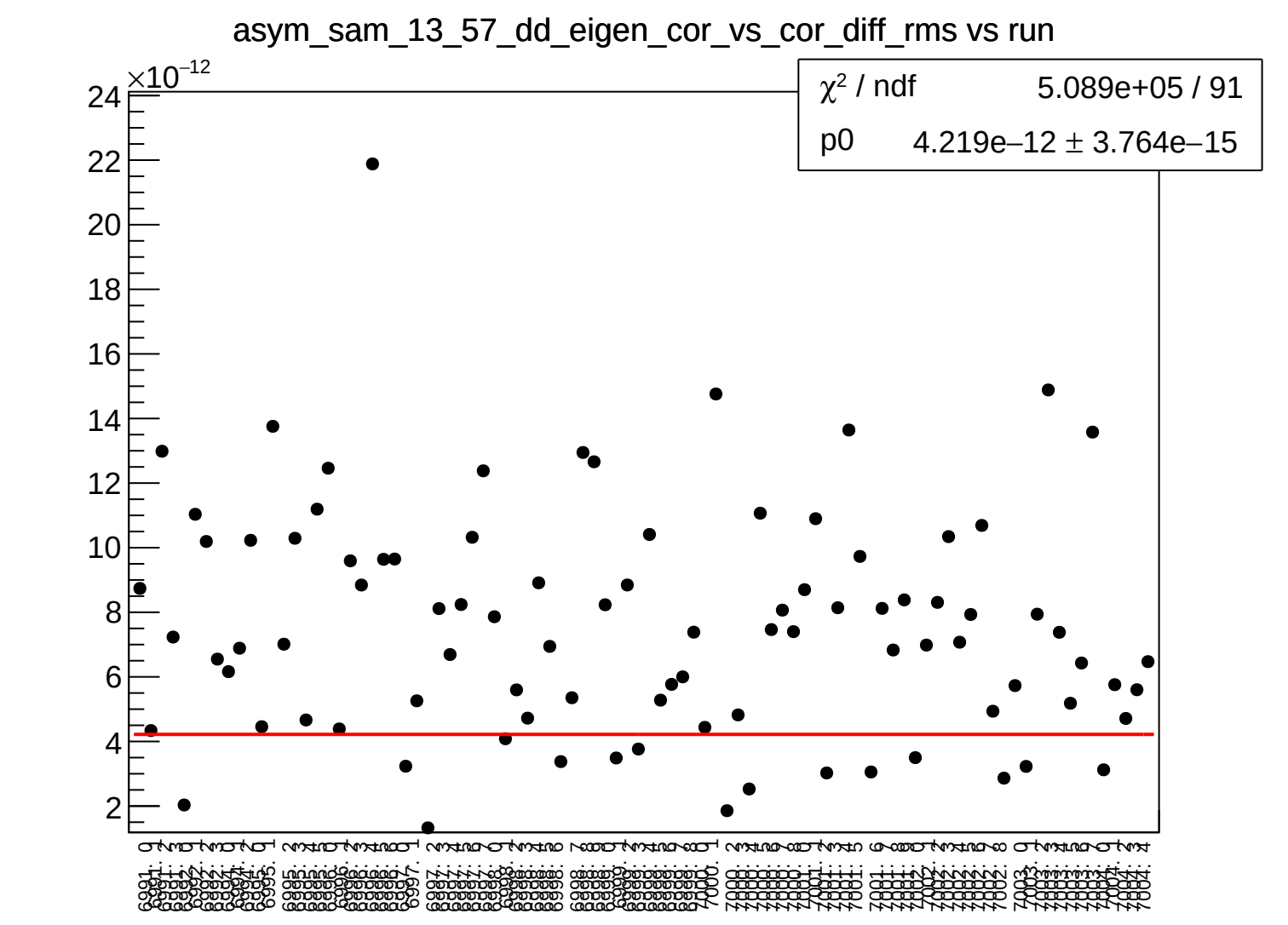

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.54 / 91
p0 −0.01153 ± 0.01745
pull
Entries 92
Mean −281.8
Std Dev 0

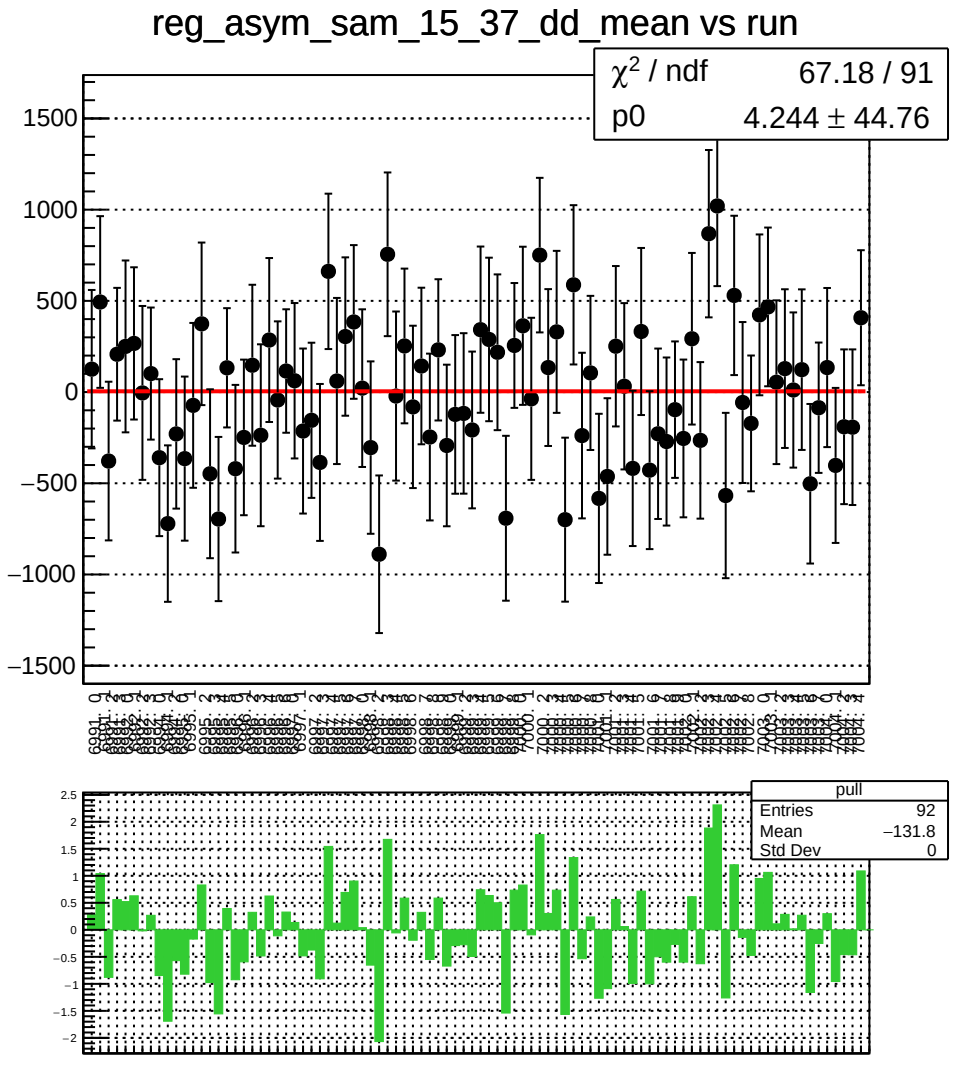

pull1D
Entries 92
Mean 0.01076
Std Dev 0.9586

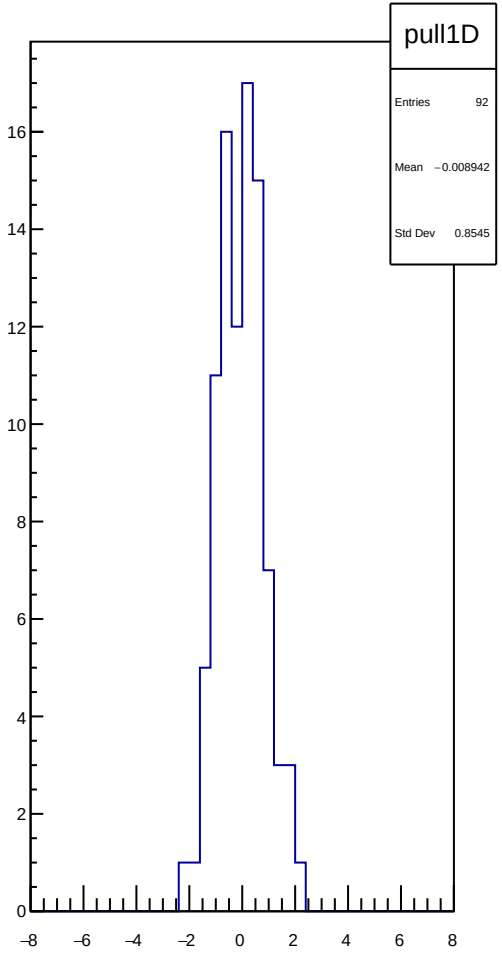

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.939e+04 / 91
p0 16.16 ± 0.01234
35
30
25
20
15

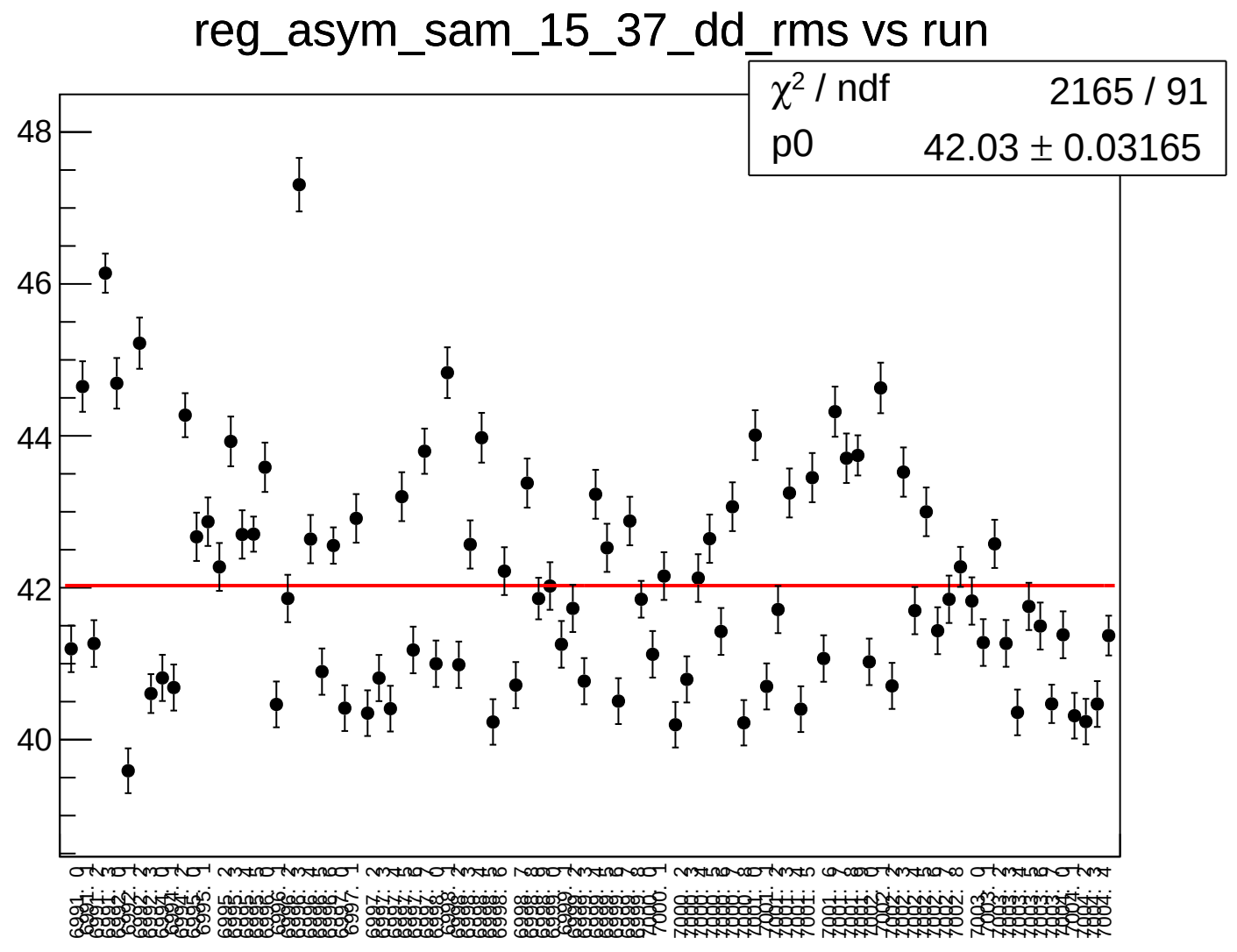

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.35 / 91
p0 4.912e−15 ± 5.323e−15
pull
Entries 92
Mean 102.6
Std Dev 0

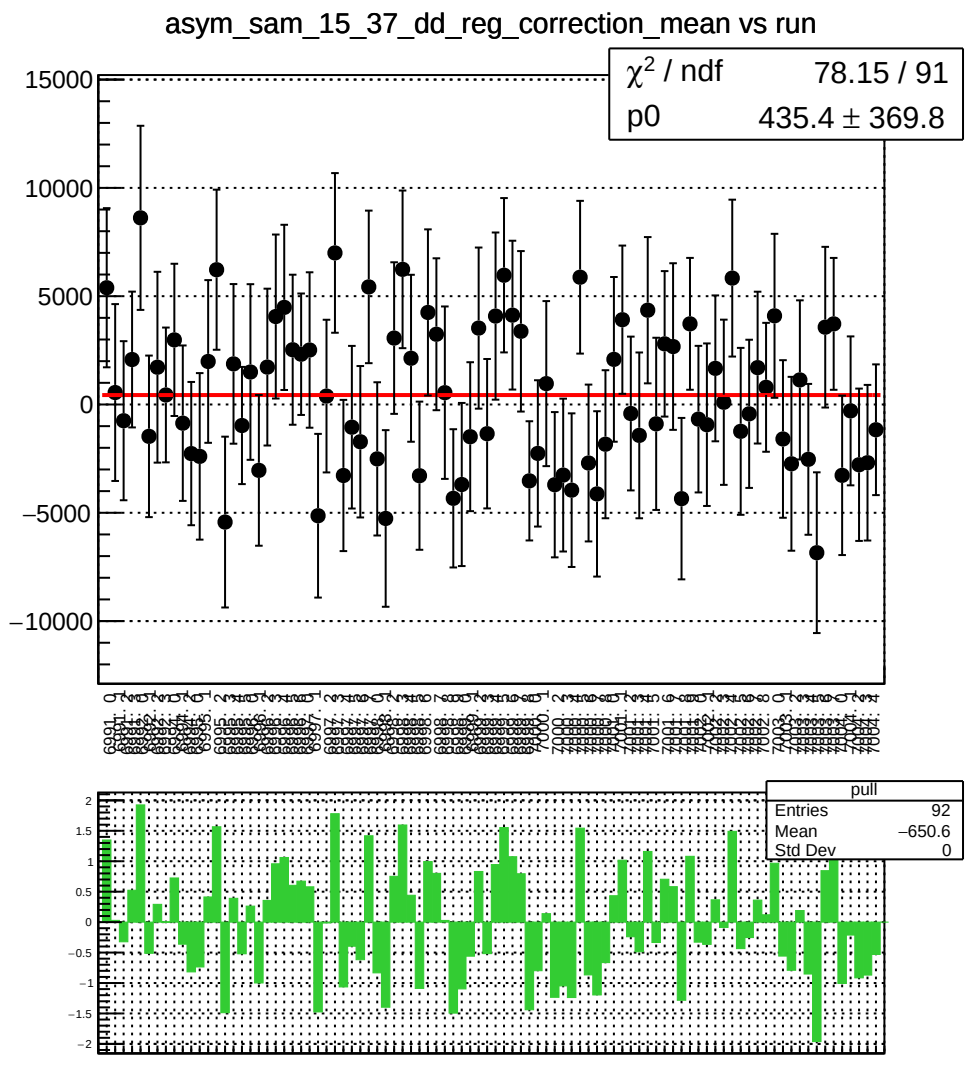

pull1D
Entries 92
Mean −0.0396
Std Dev 0.9161

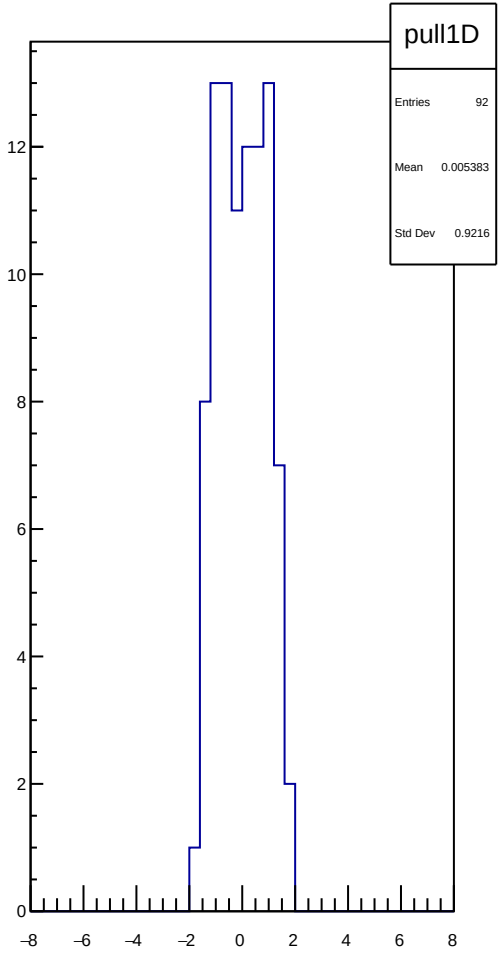

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.089e+05 / 91
p0 4.219e−12 ± 3.764e−15
24
22
20
18
16
14
12
10
8
6
4
2

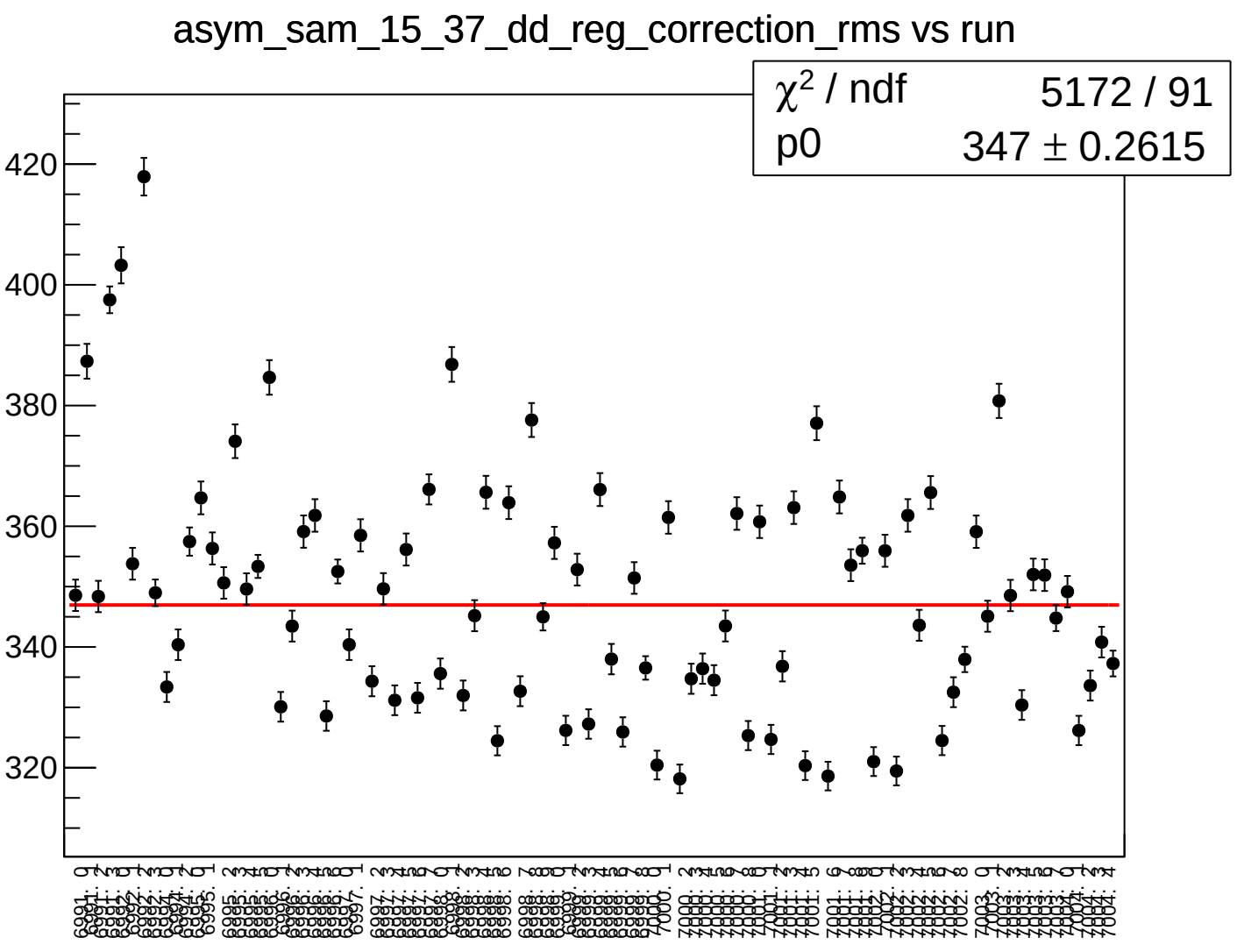

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 67.18 / 91
p0 4.244 ± 44.76
pull
Entries 92
Mean −131.8
Std Dev 0

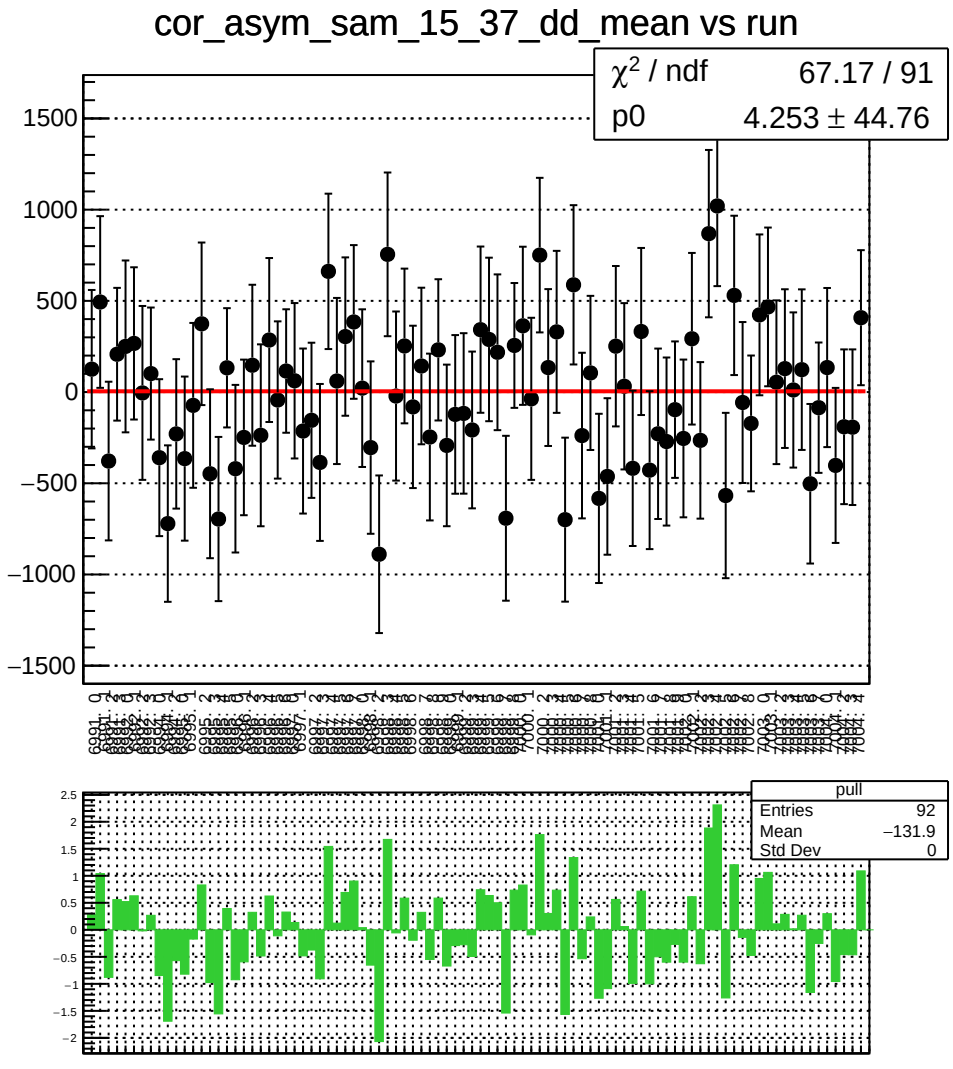

pull1D
Entries 92
Mean −0.008942
Std Dev 0.8545

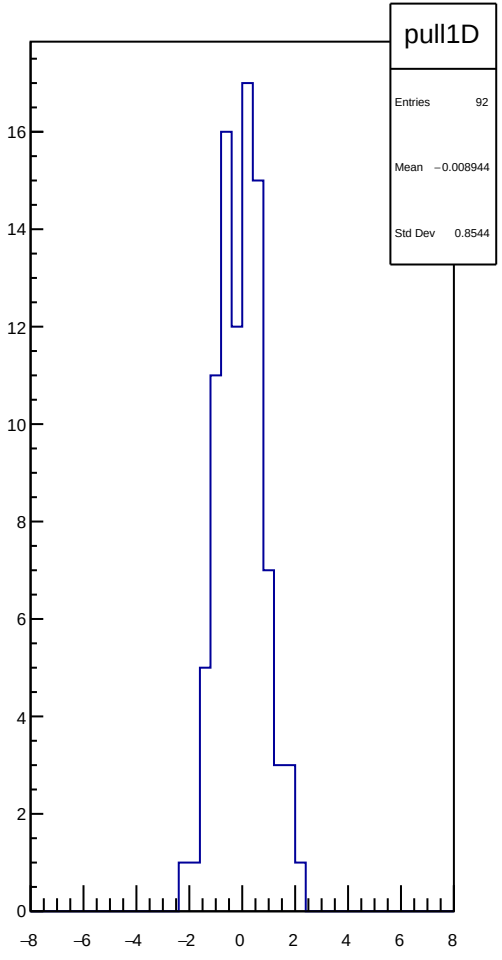

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2165 / 91
p0 42.03 ± 0.03165
48
46
44
42
40

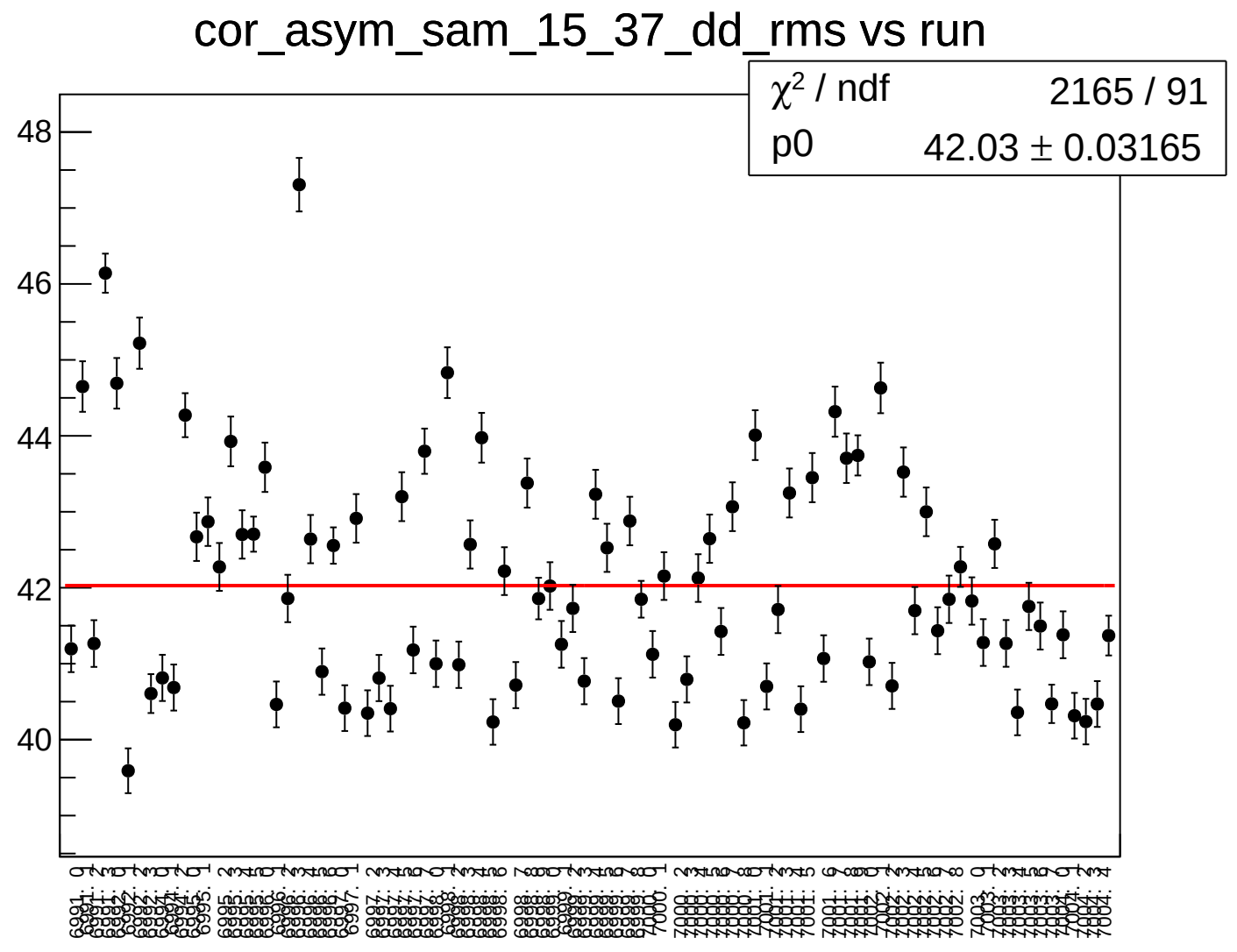

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 78.15 / 91
p0 435.4 ± 369.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −650.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

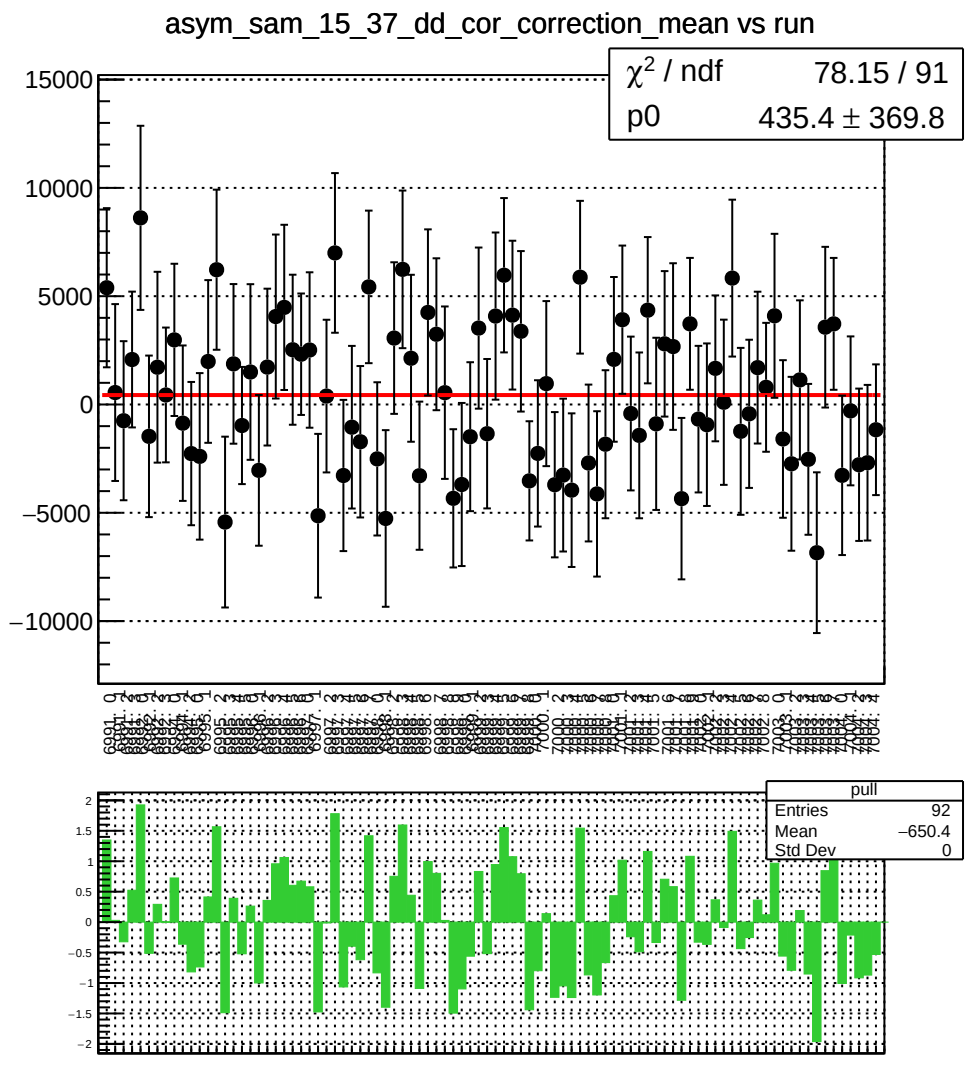

pull1D
Entries 92
Mean 0.005383
Std Dev 0.9216
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

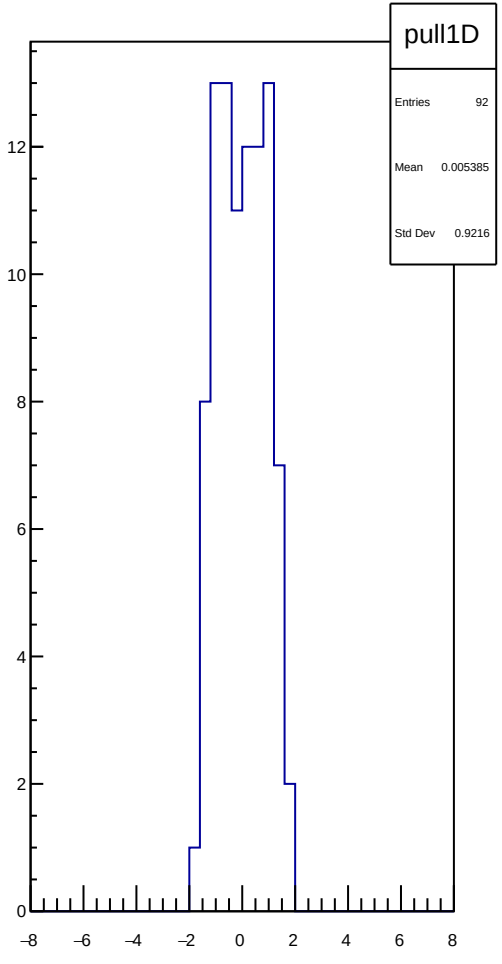

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5172 / 91
p0 347 ± 0.2615
420
400
380
360
340
320

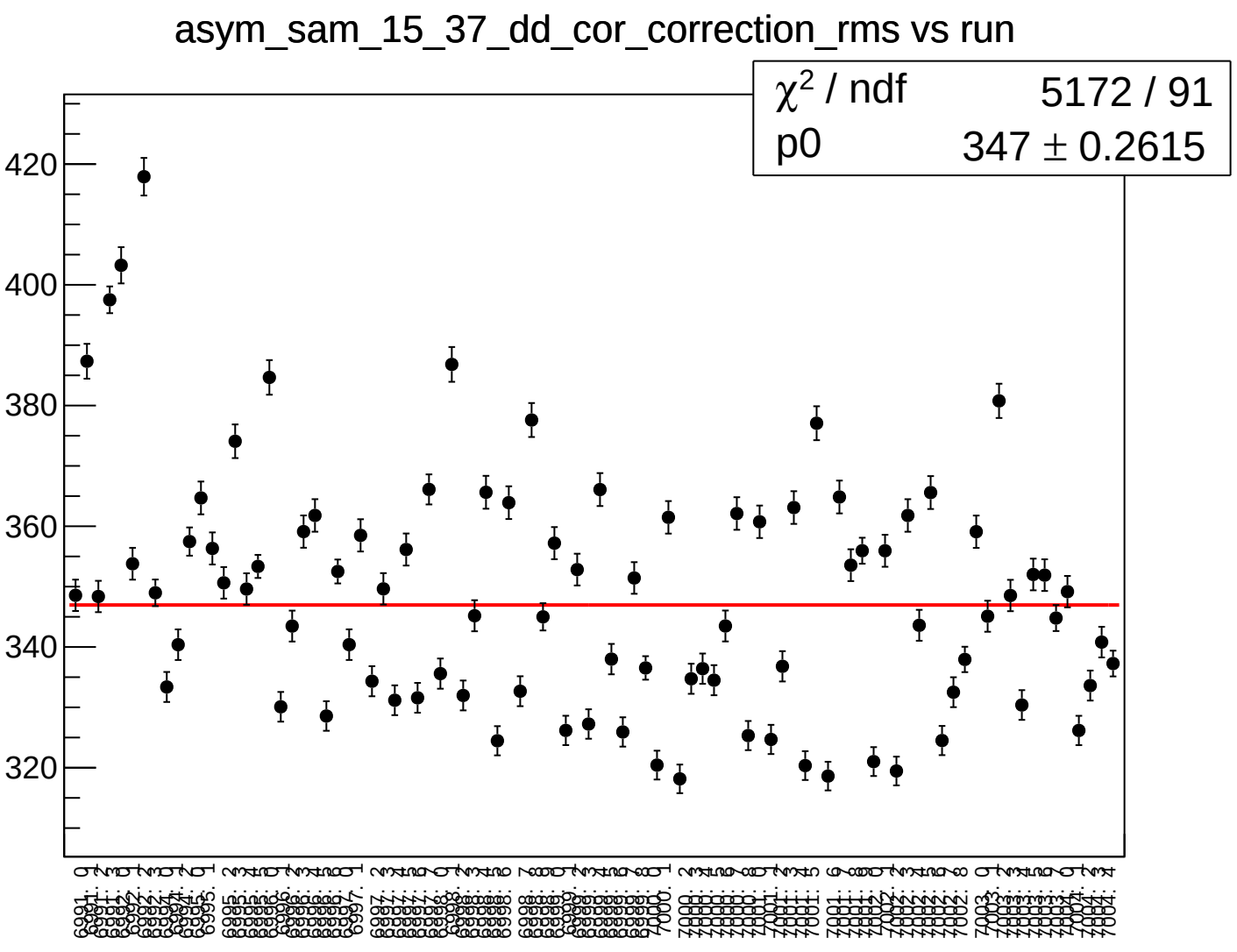

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 67.17 / 91
p0 4.253 ± 44.76
pull
Entries 92
Mean −131.9
Std Dev 0

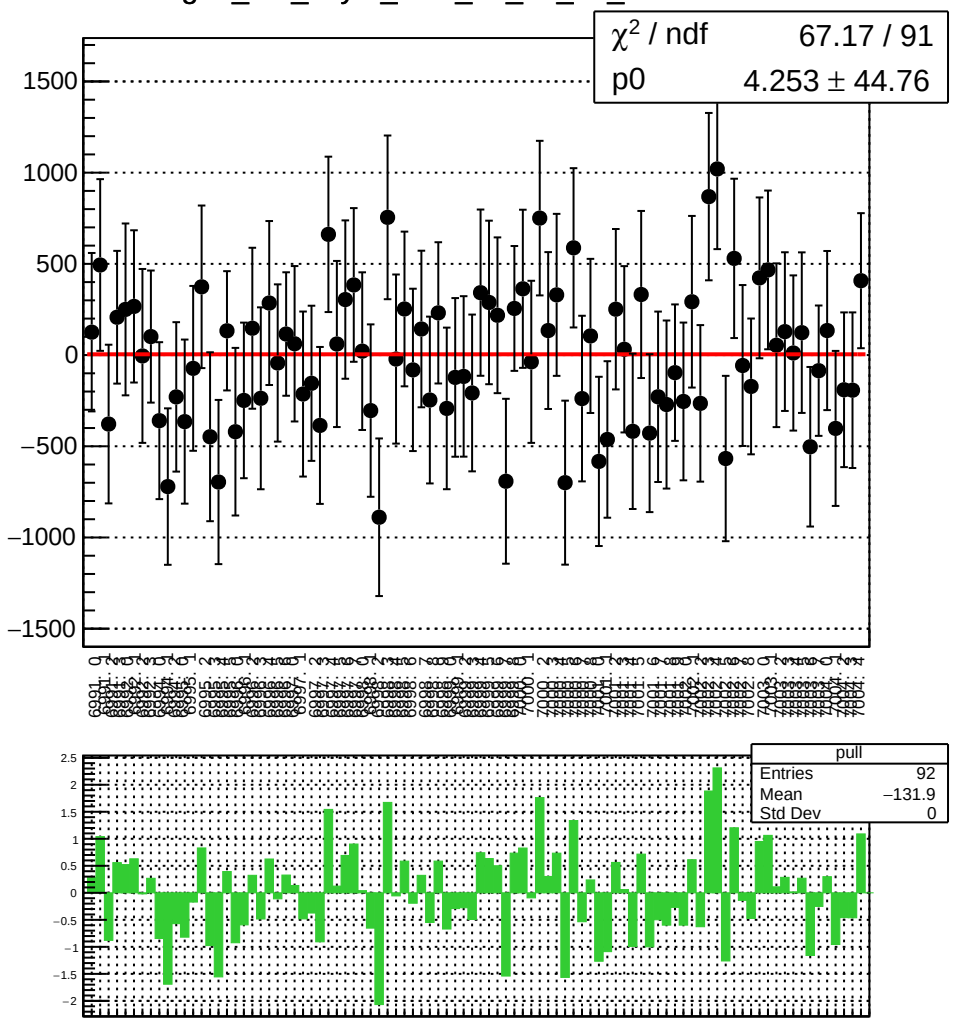

pull1D
Entries 92
Mean −0.008944
Std Dev 0.8544

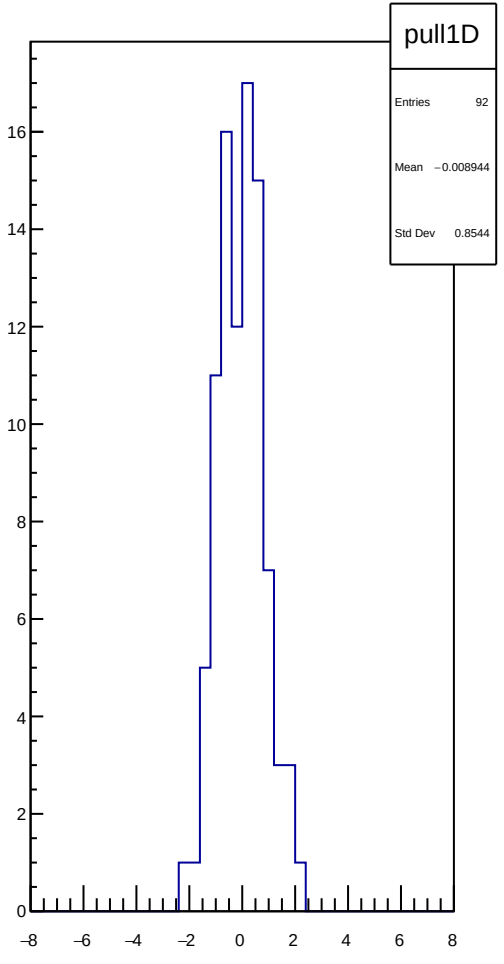

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2165 / 91
p0 42.03 ± 0.03165
48
46
44
42
40

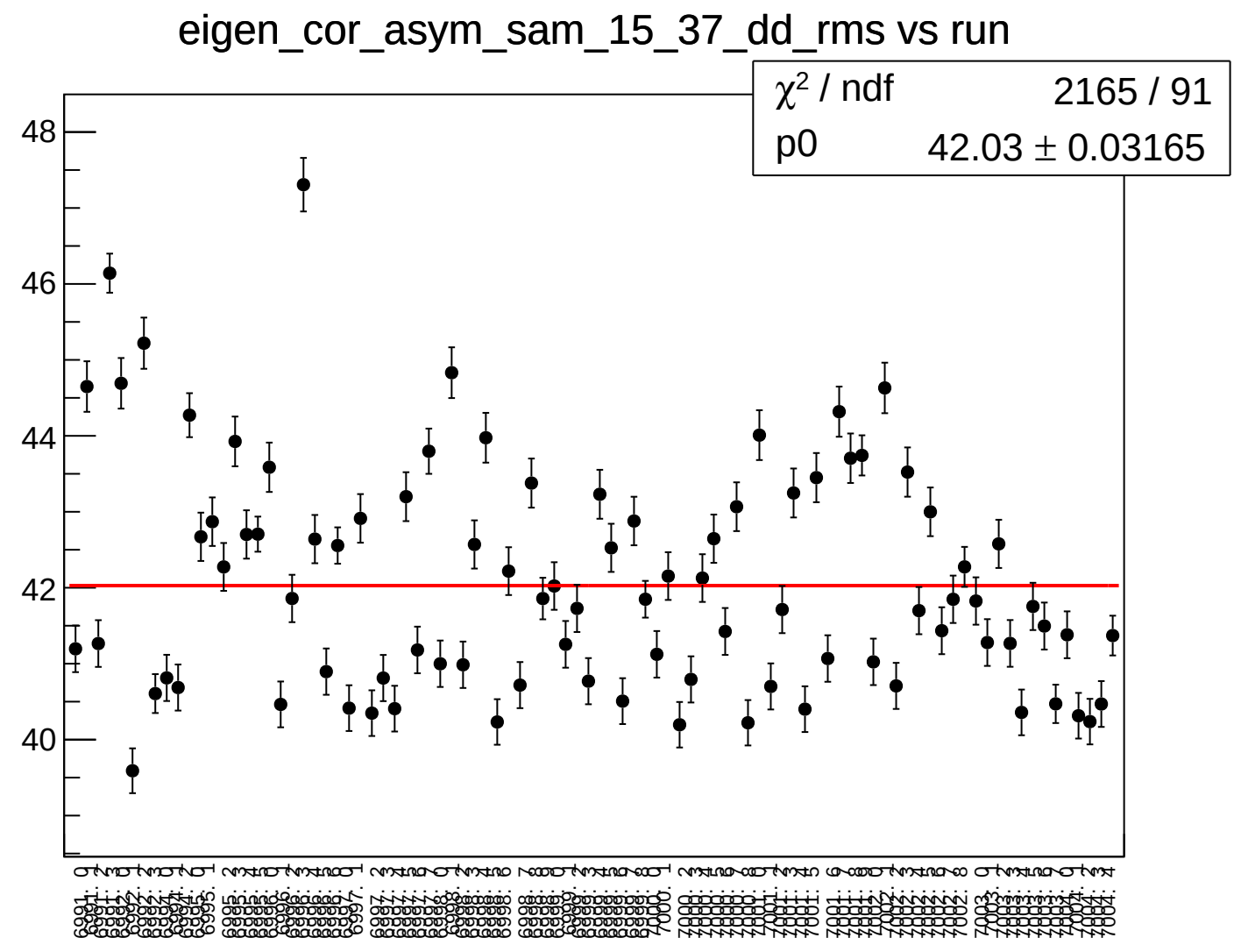

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 78.15 / 91
p0 435.4 ± 369.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −650.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

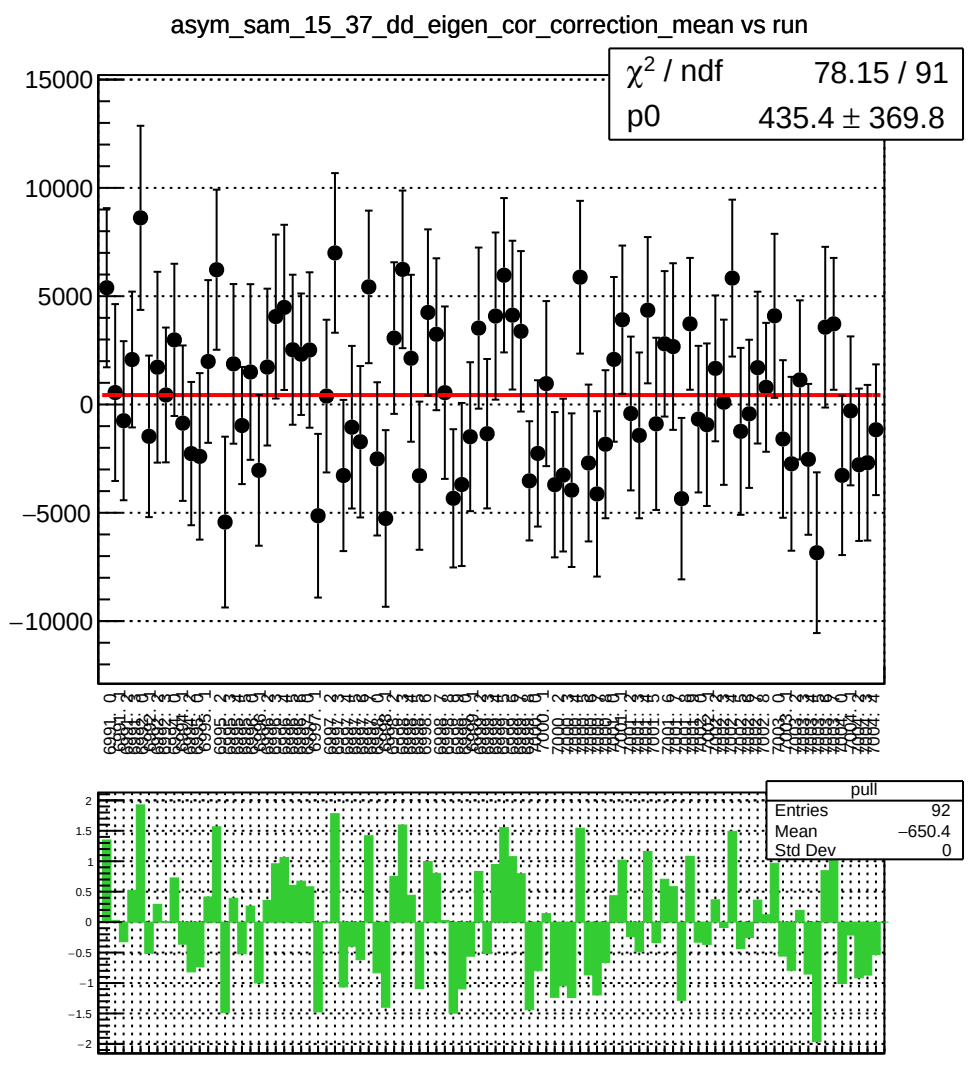

pull1D
Entries 92
Mean 0.005385
Std Dev 0.9216
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

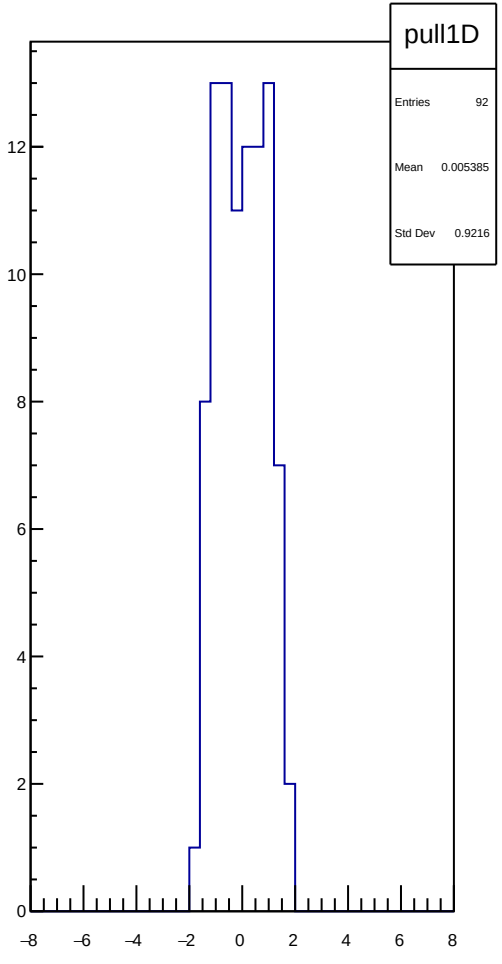

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5172 / 91
p0 347 ± 0.2615
420
400
380
360
340
320

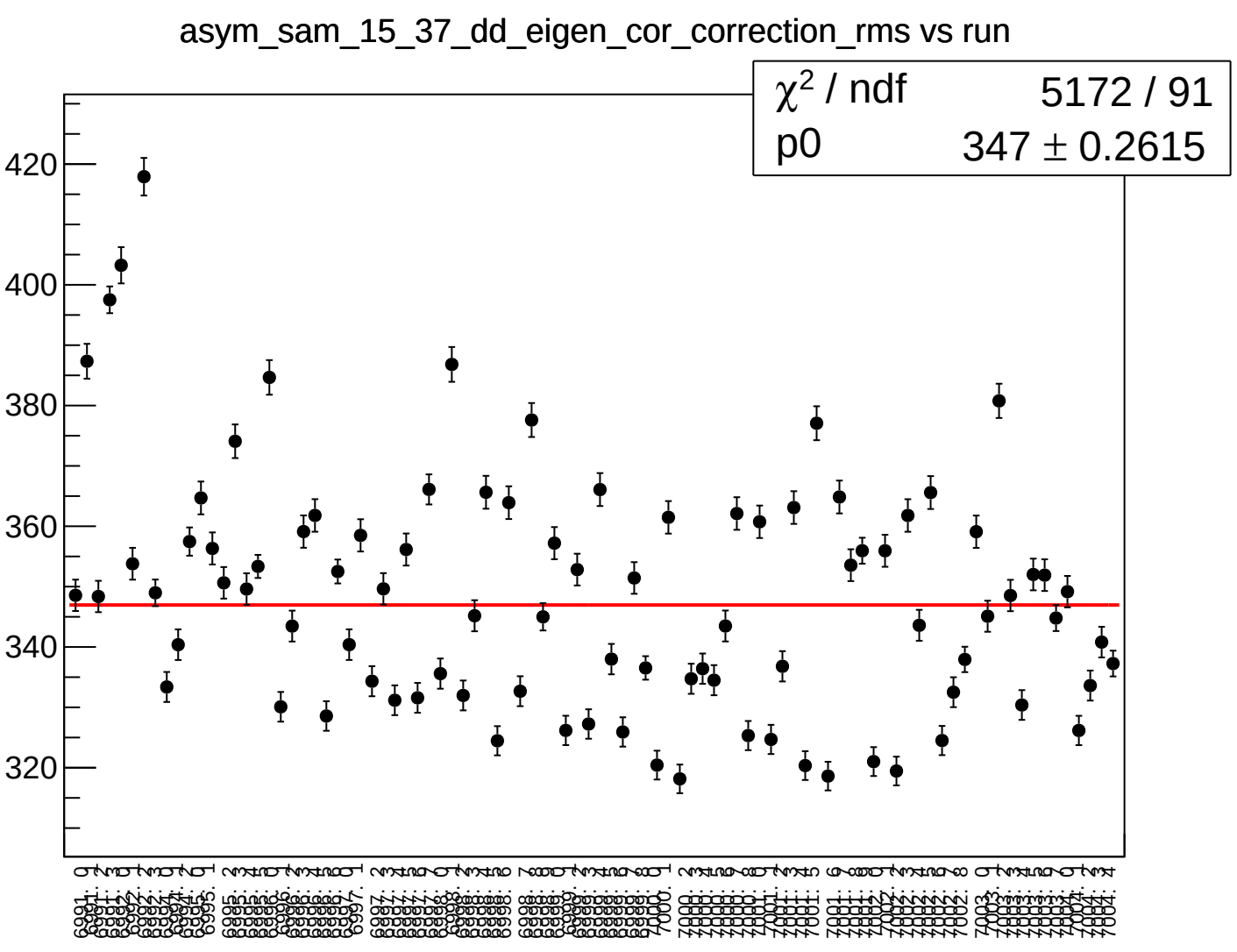

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 67.17 / 91
p0 4.253 ± 44.76
pull
Entries 92
Mean −131.9
Std Dev 0

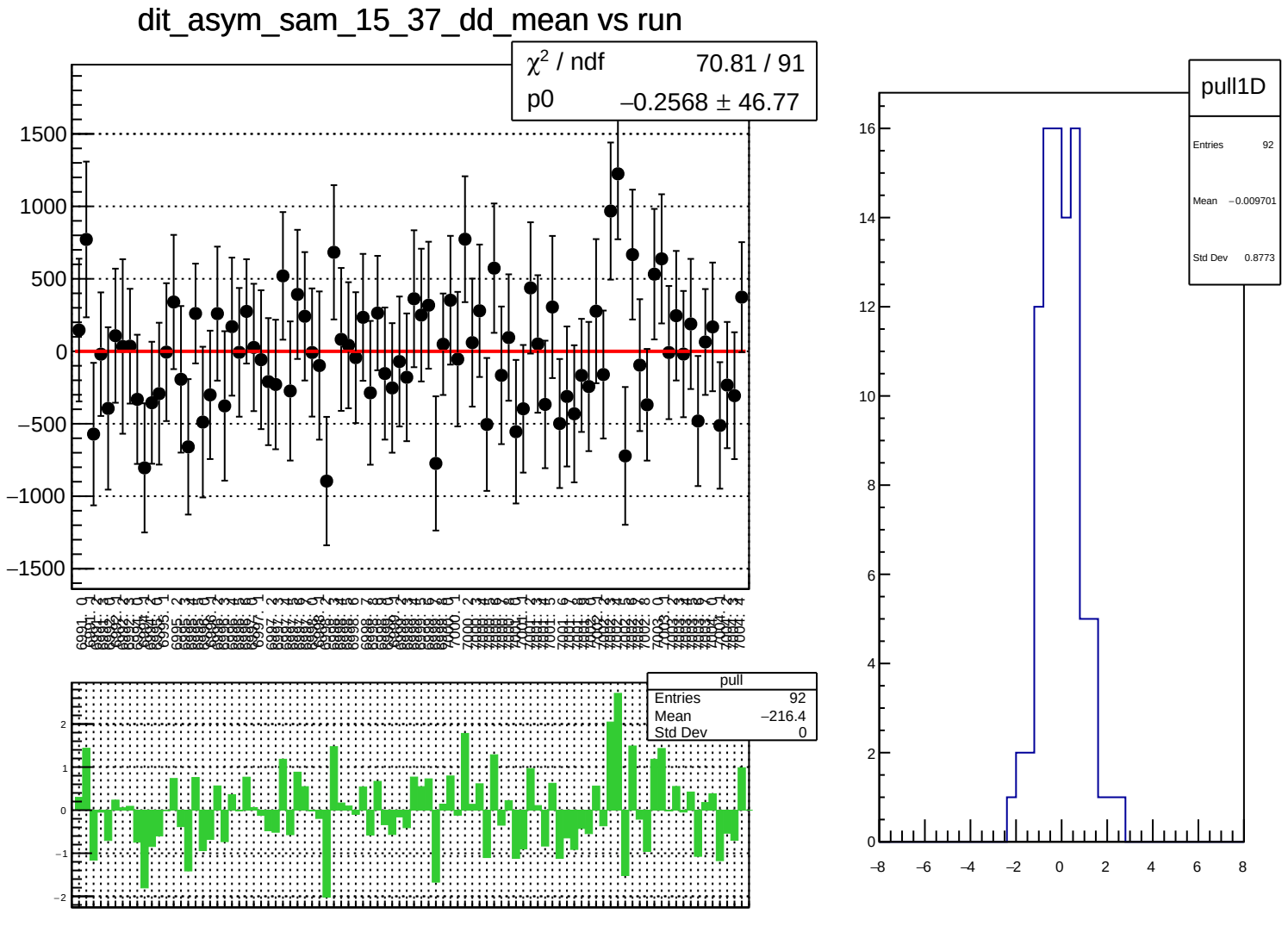

pull1D
Entries 92
Mean −0.008944
Std Dev 0.8544

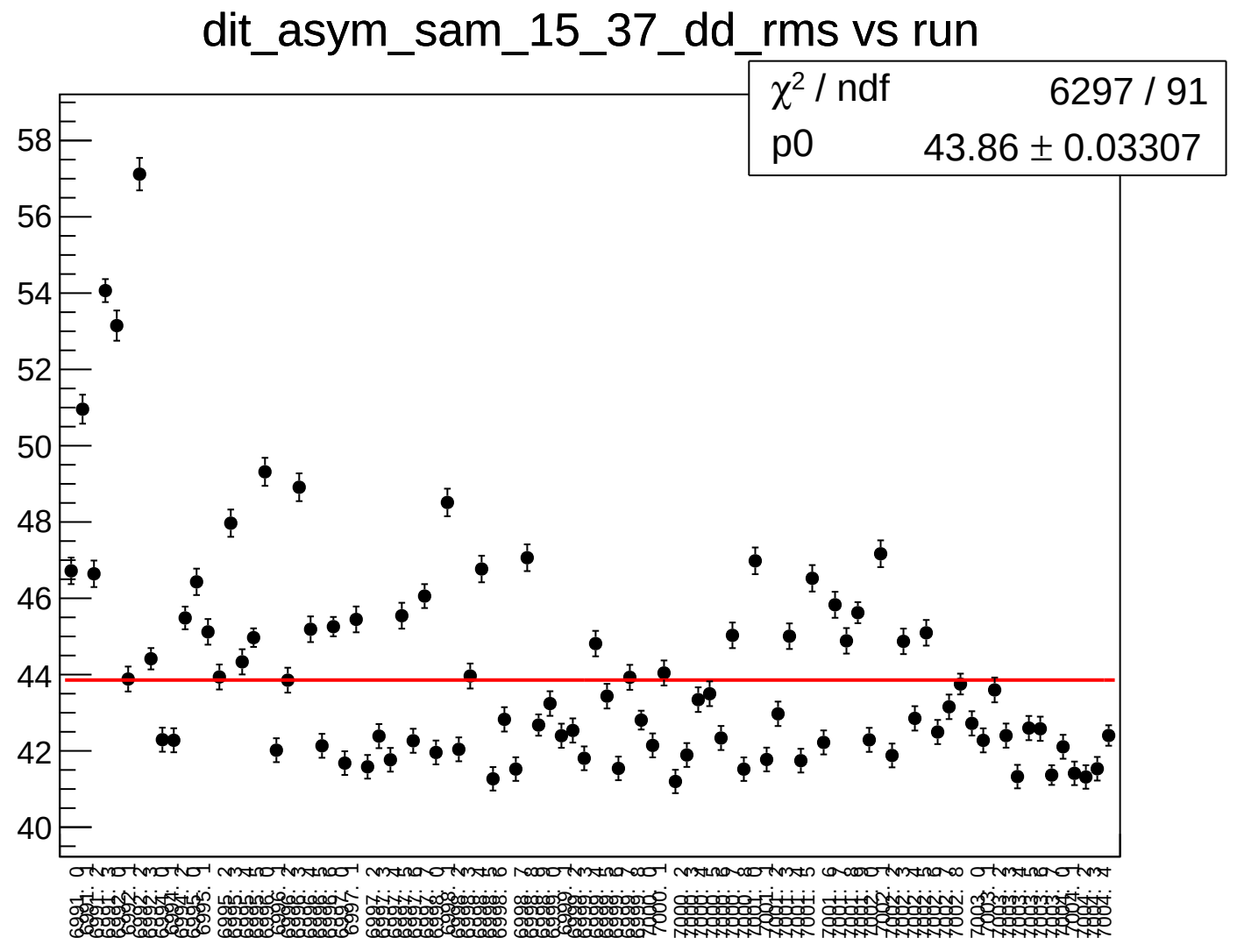

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2165 / 91
p0 42.03 ± 0.03165
48
46
44
42
40

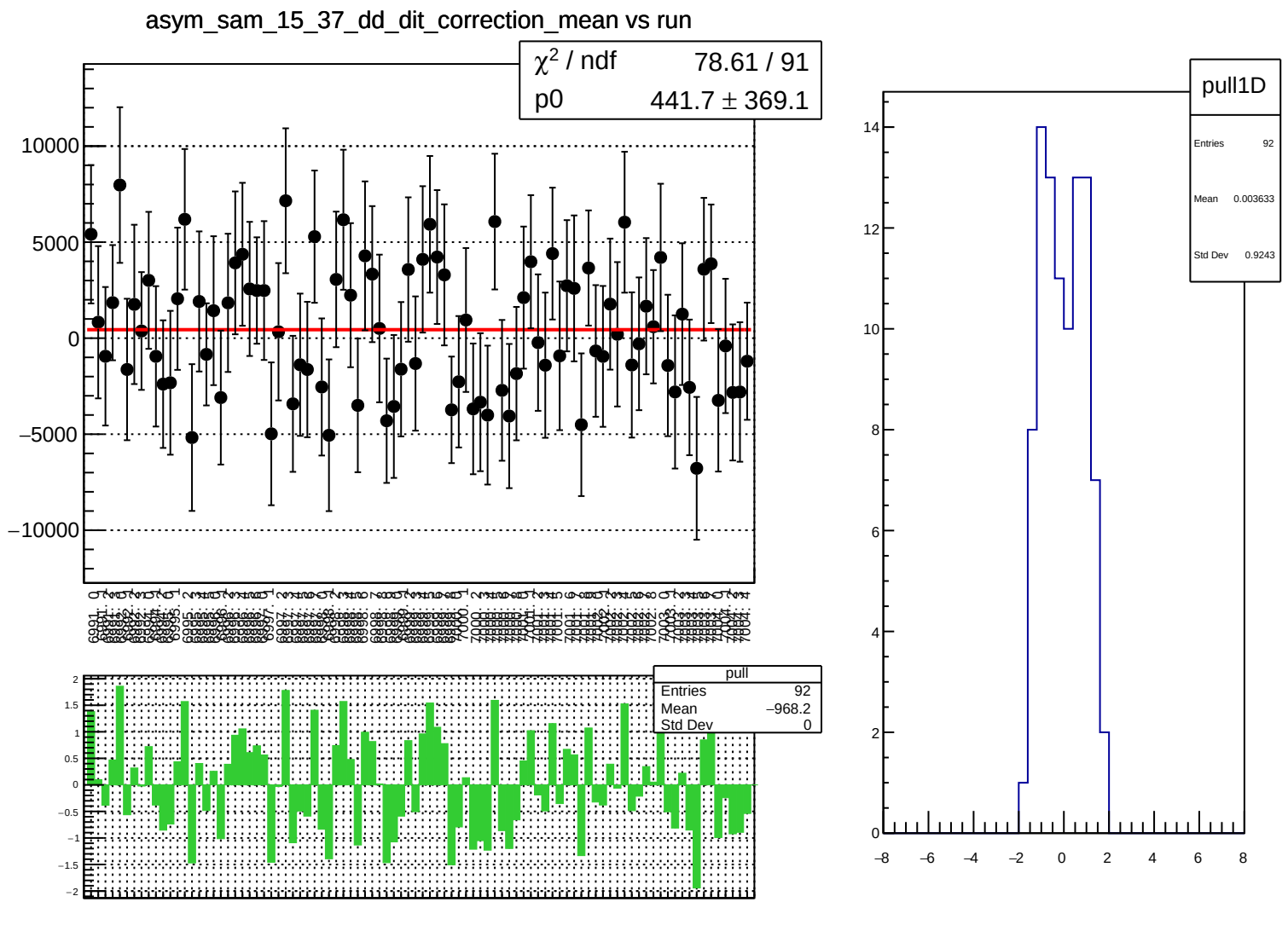

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.15 / 91
p0 435.4 ± 369.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −650.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

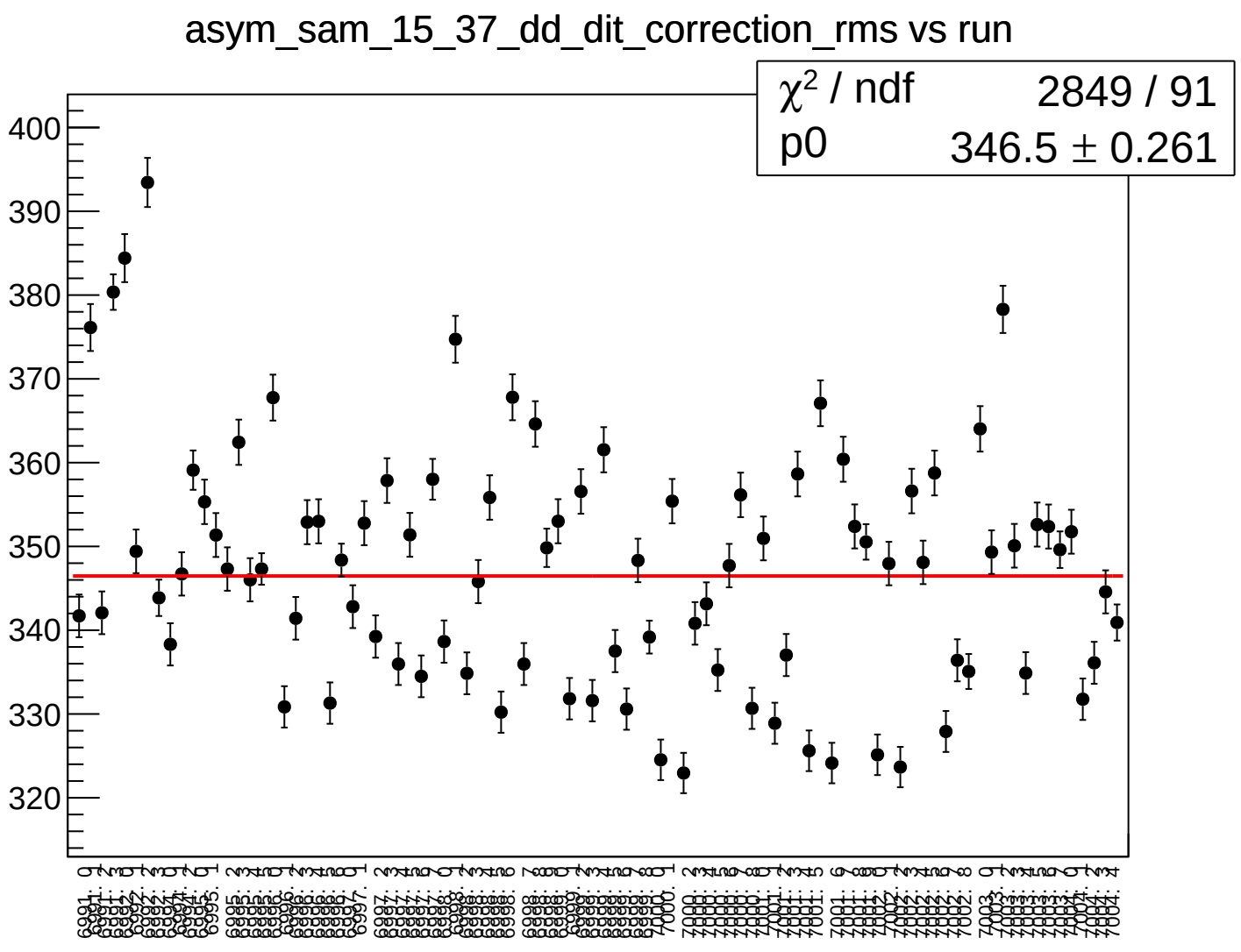

pull1D
Entries 92
Mean 0.005385
Std Dev 0.9216
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

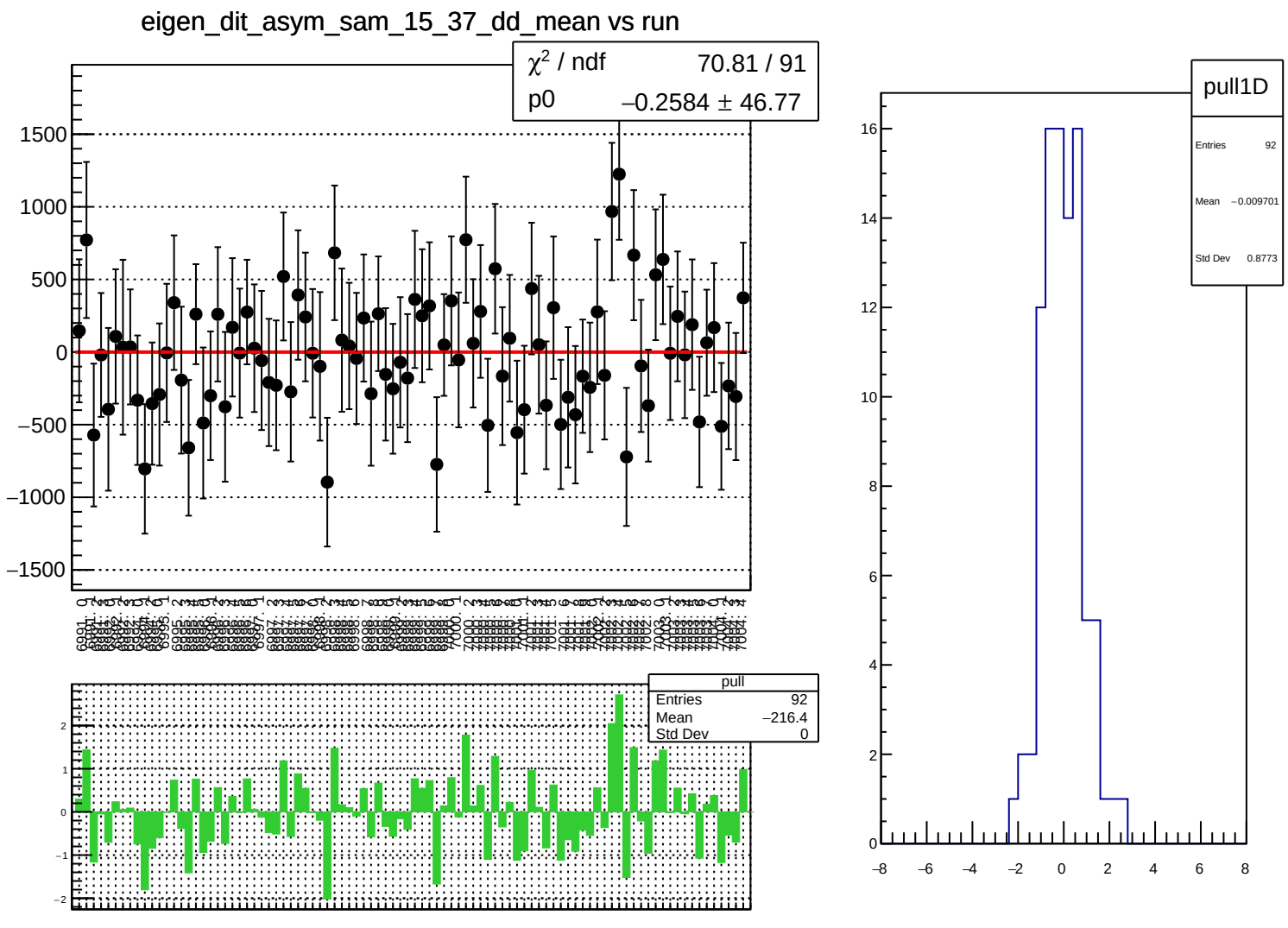

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5172 / 91
p0 347 ± 0.2615
420
400
380
360
340
320

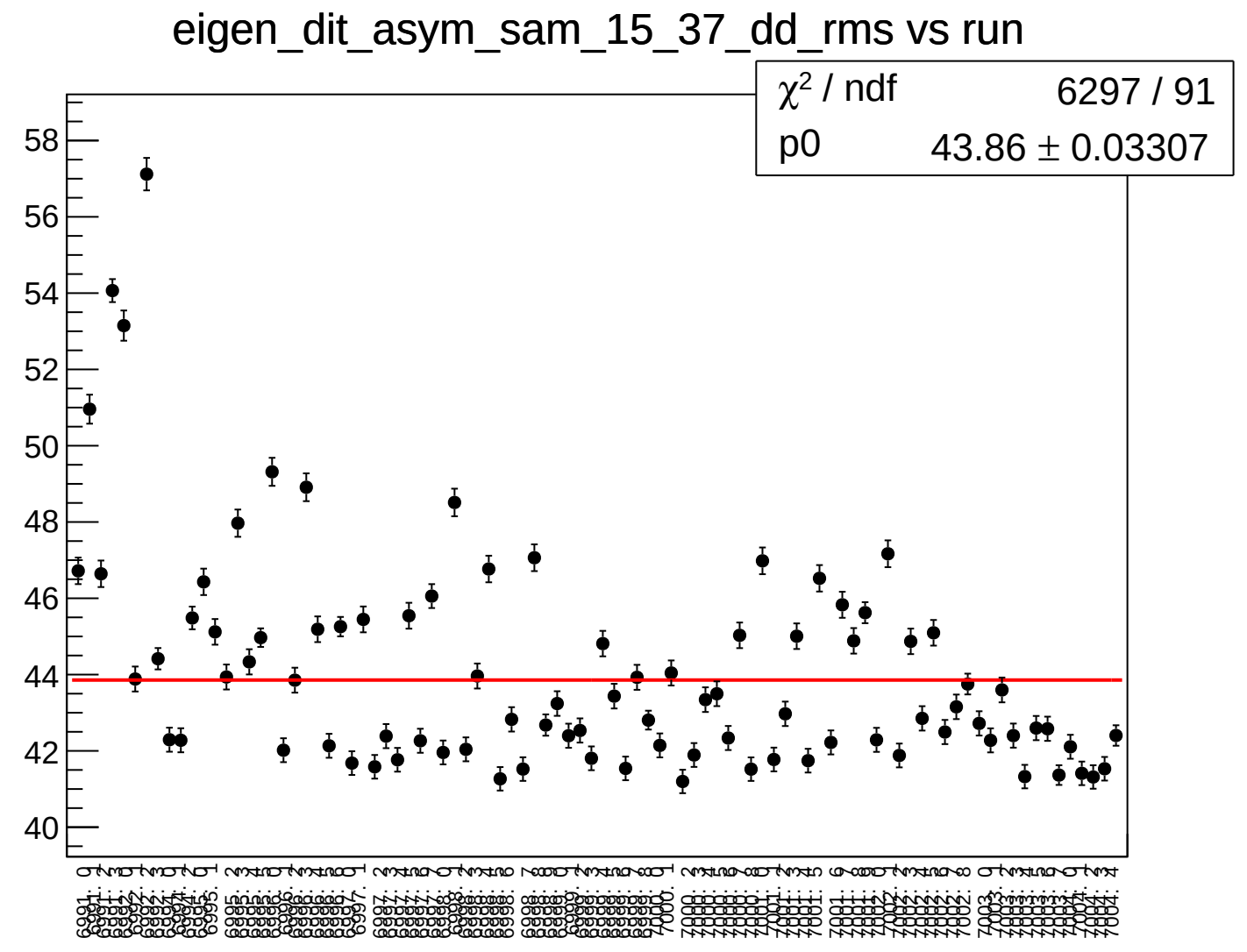

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 70.81 / 91
p0 −0.2568 ± 46.77
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −216.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.009701
Std Dev 0.8773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

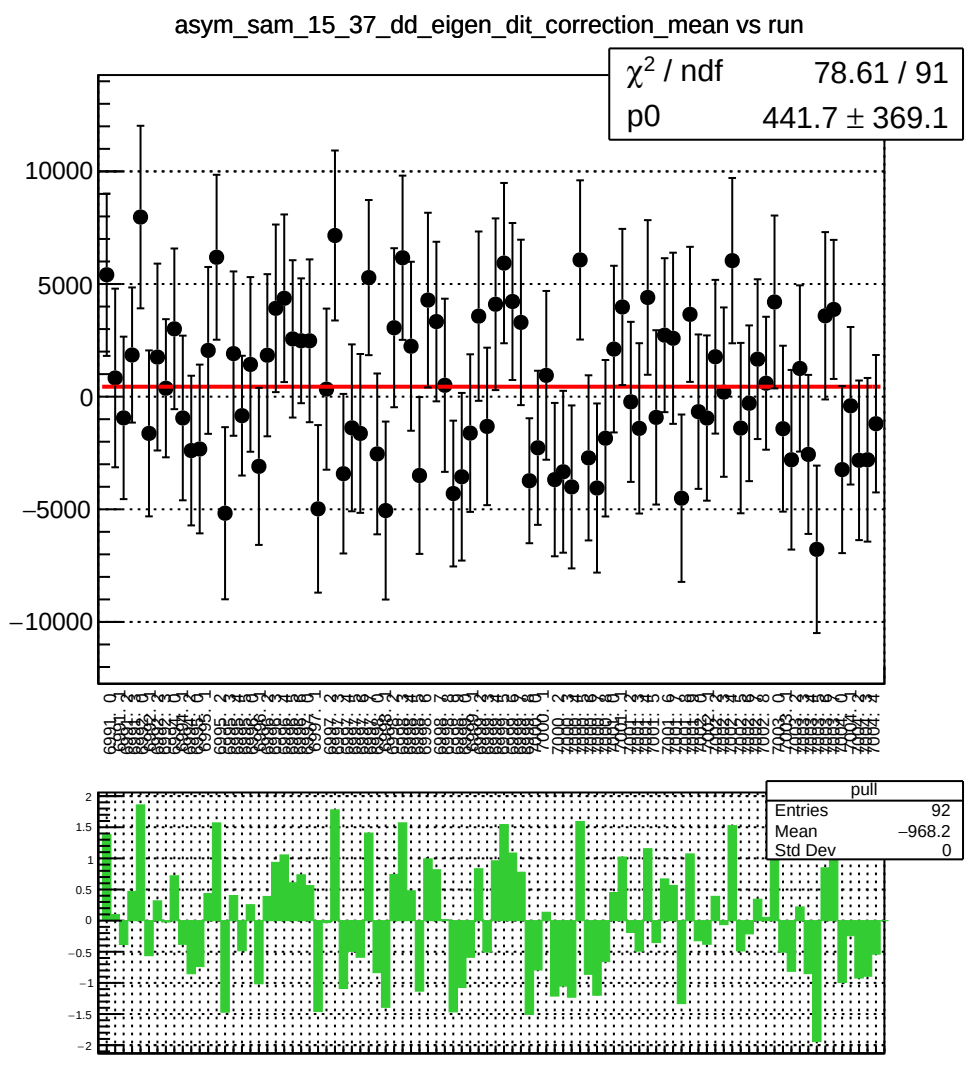

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 6297 / 91
p0 43.86 ± 0.03307
58
56
54
52
50
48
46
44
42
40

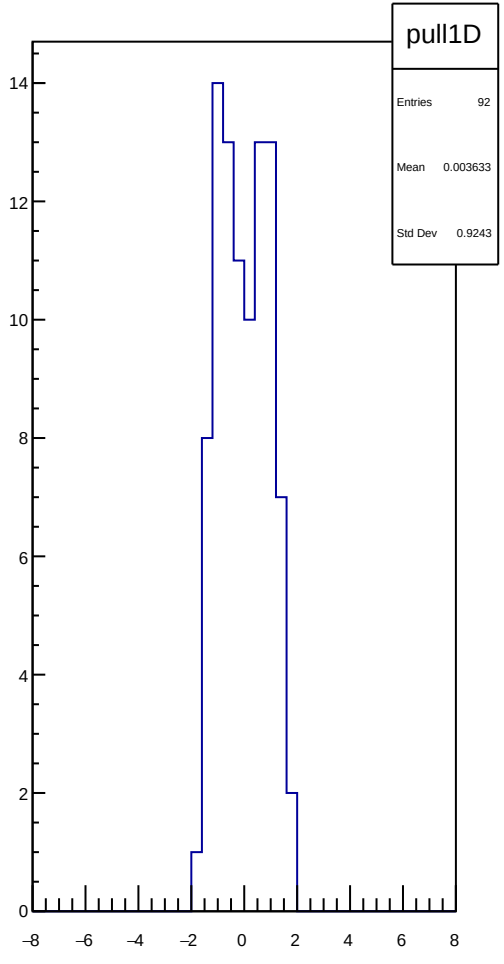

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 78.61 / 91
p0 441.7 ± 369.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −968.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.003633
Std Dev 0.9243
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

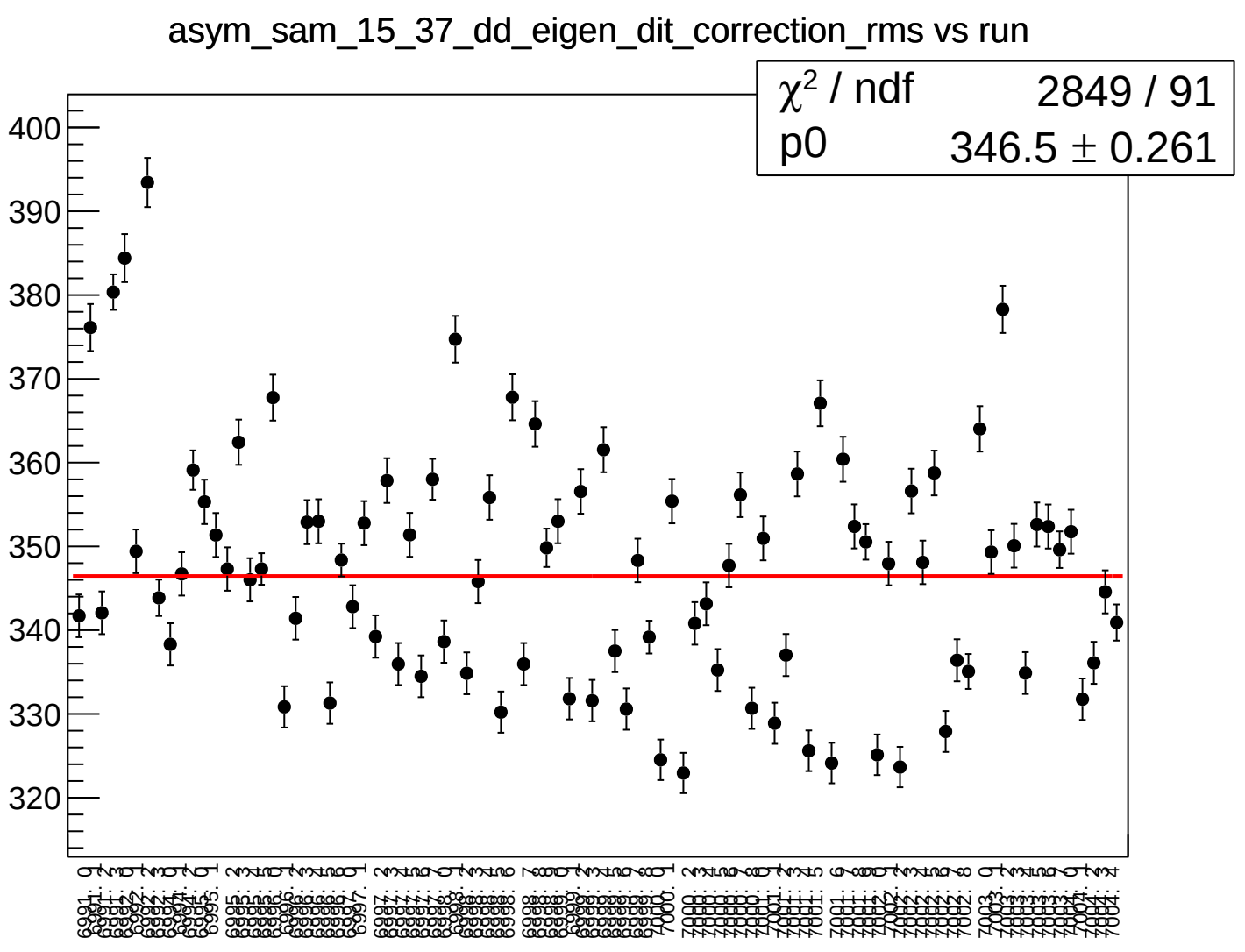

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2849 / 91
p0 346.5 ± 0.261
400
390
380
370
360
350
340
330
320

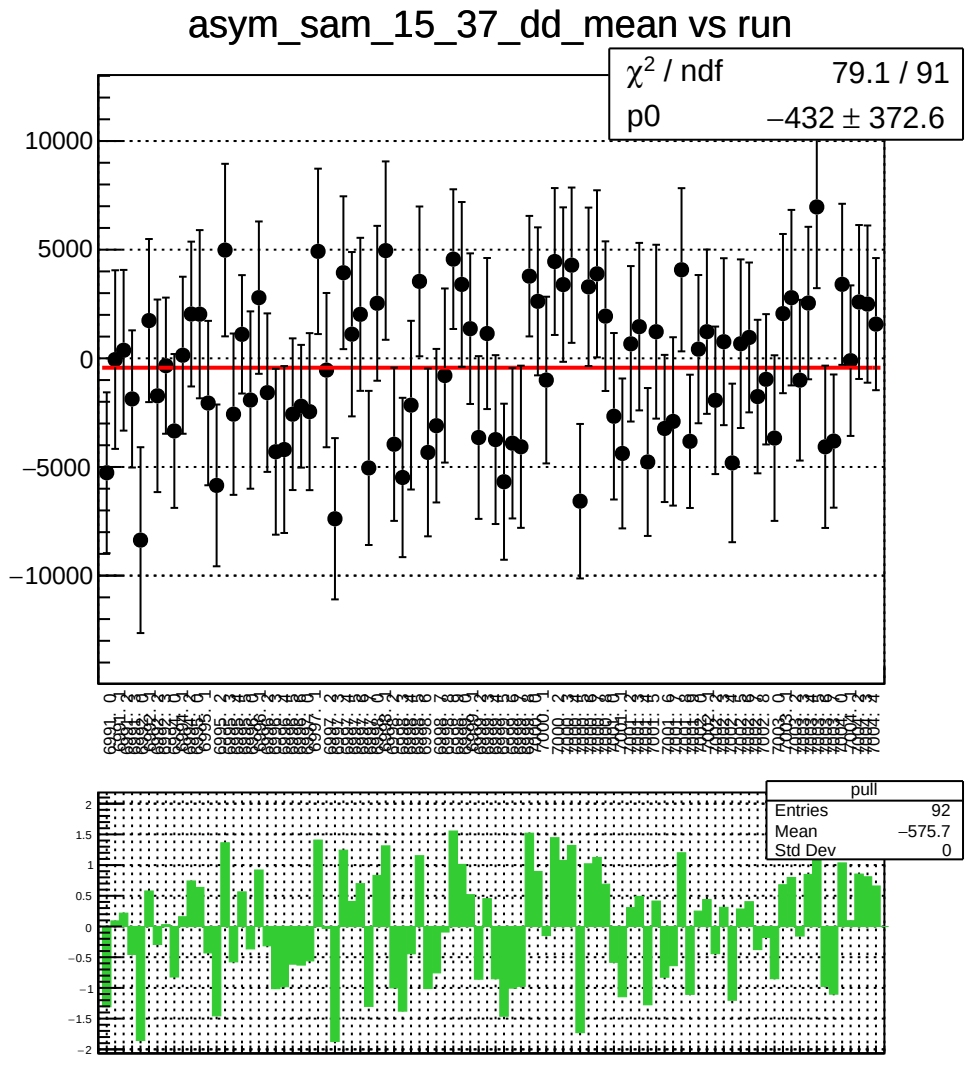

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 70.81 / 91
p0 −0.2584 ± 46.77
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −216.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.009701
Std Dev 0.8773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

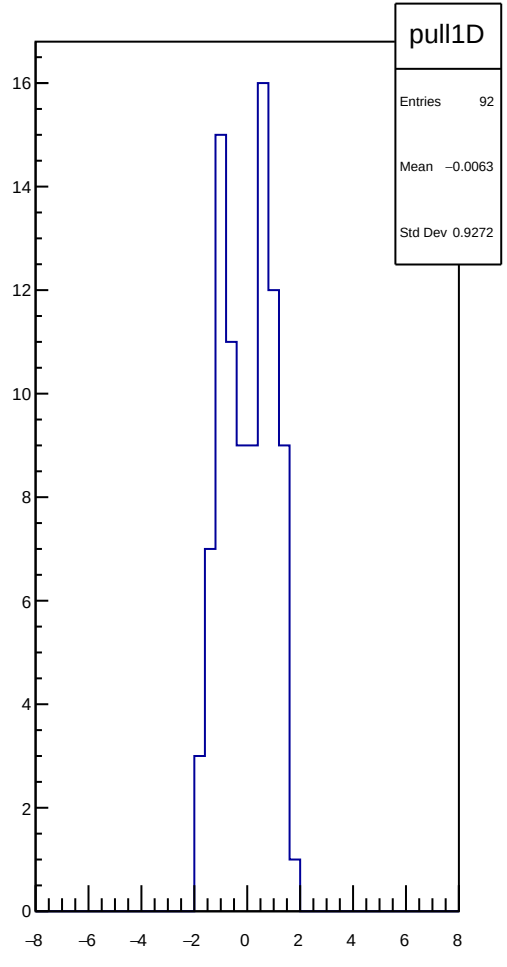

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 6297 / 91
p0 43.86 ± 0.03307
58
56
54
52
50
48
46
44
42
40

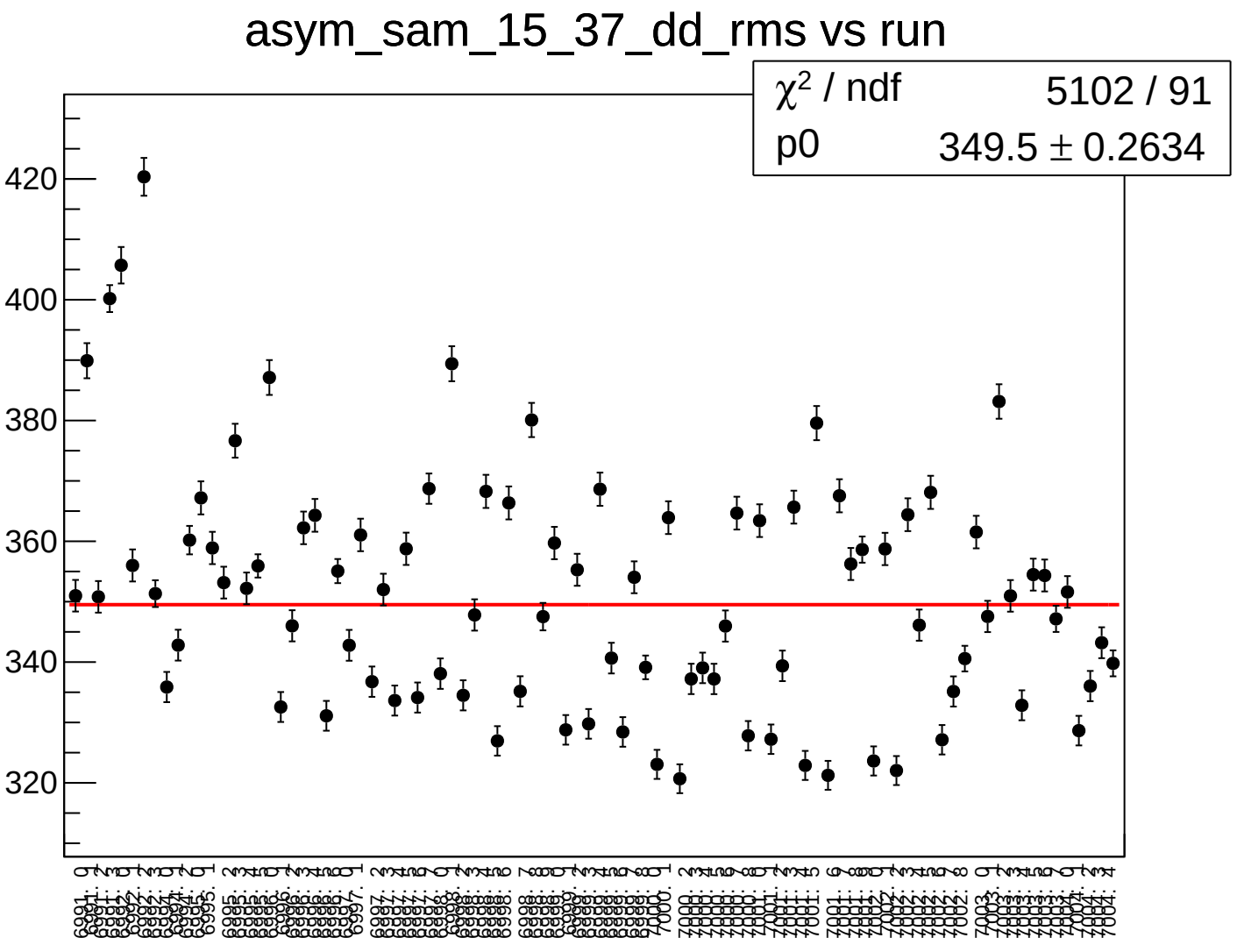

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.61 / 91
p0 441.7 ± 369.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −968.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

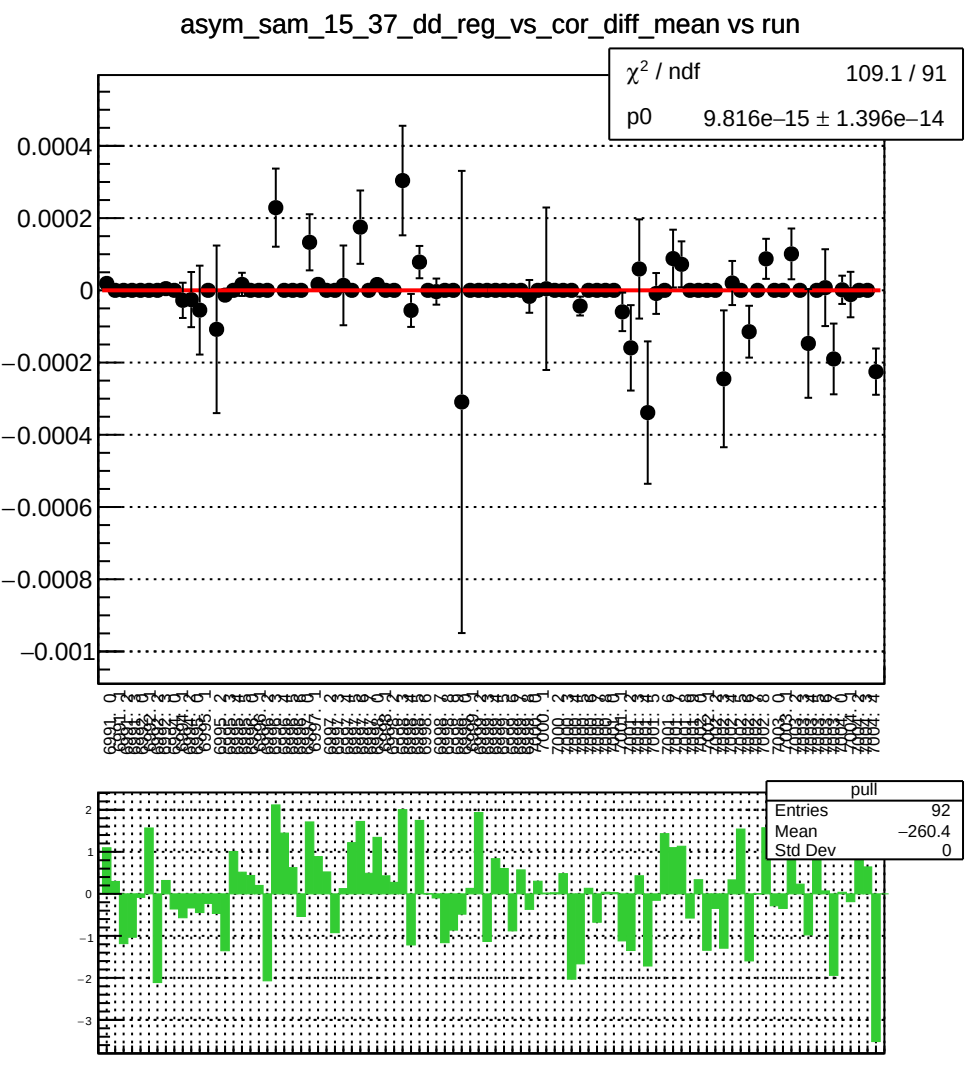

pull1D
Entries 92
Mean 0.003633
Std Dev 0.9243
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

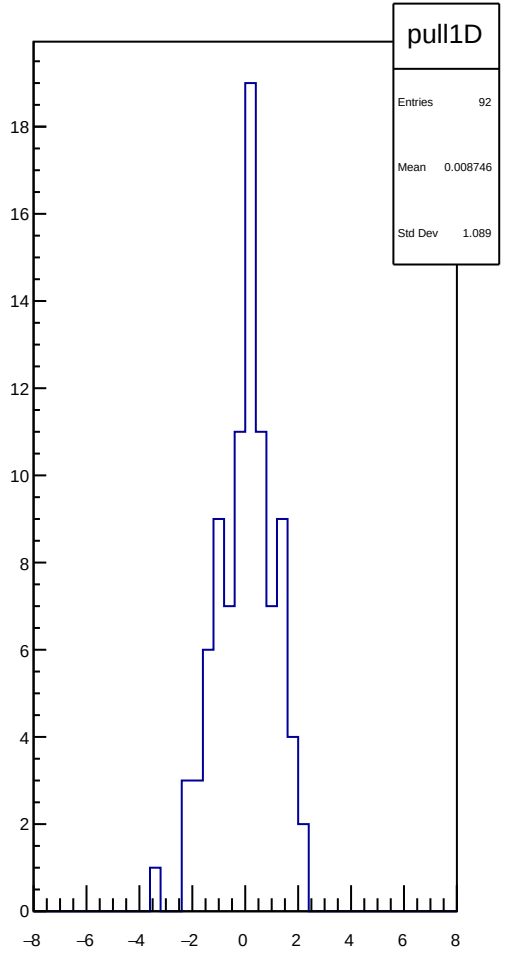

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2849 / 91
p0 346.5 ± 0.261
400
390
380
370
360
350
340
330
320

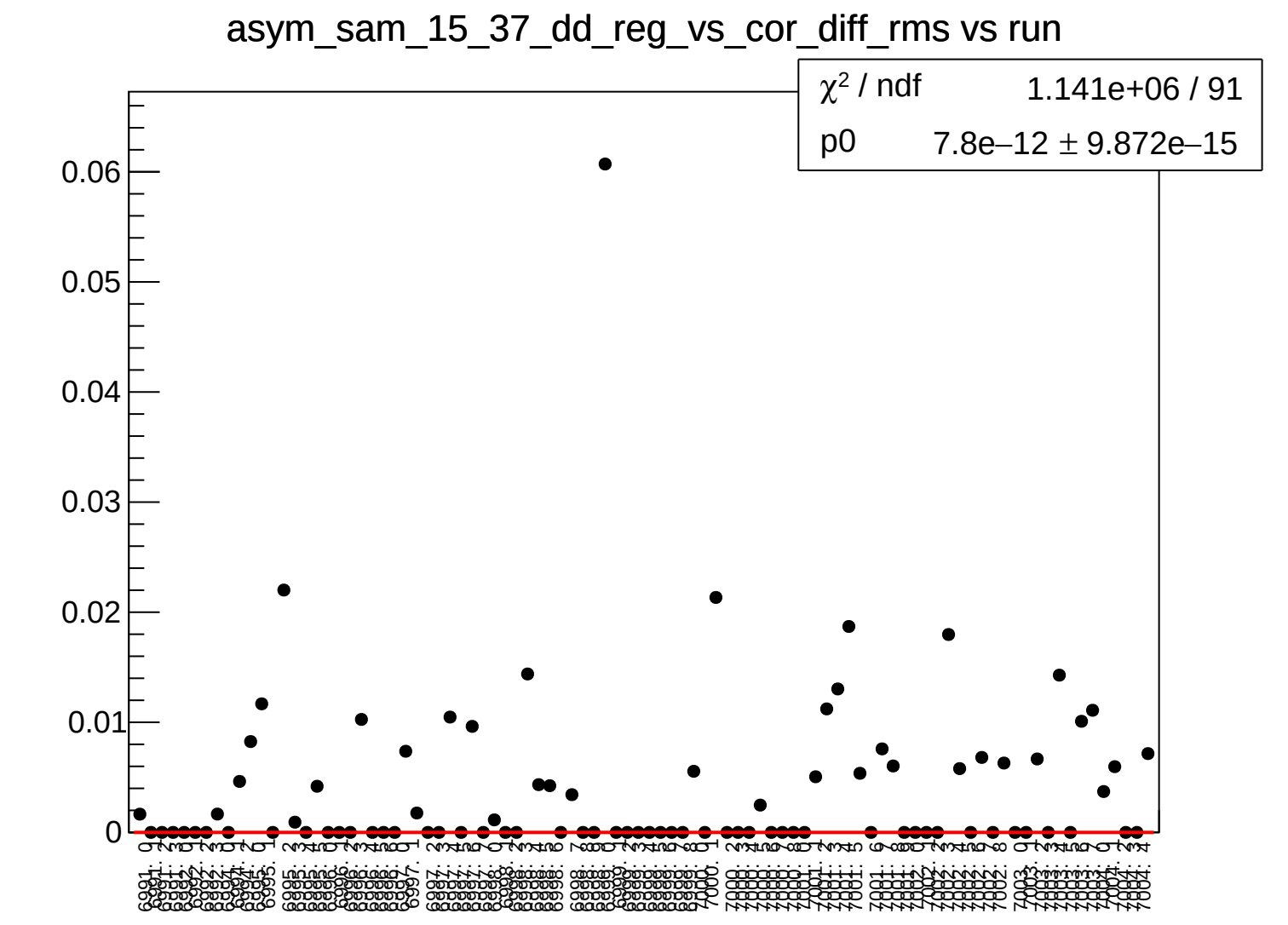

asym_sam_15_37_dd_mean vs run
χ² / ndf 79.1 / 91
p0 −432 ± 372.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −575.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

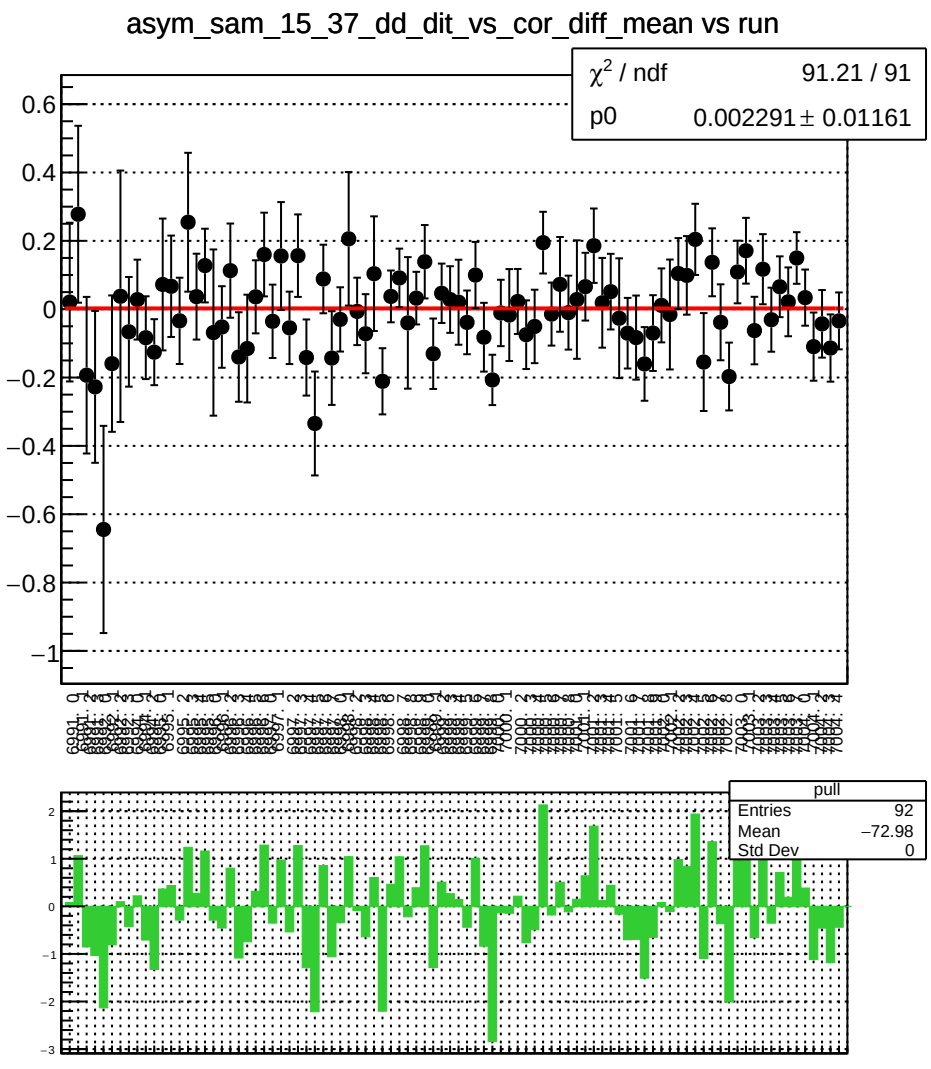

pull1D
Entries 92
Mean −0.0063
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

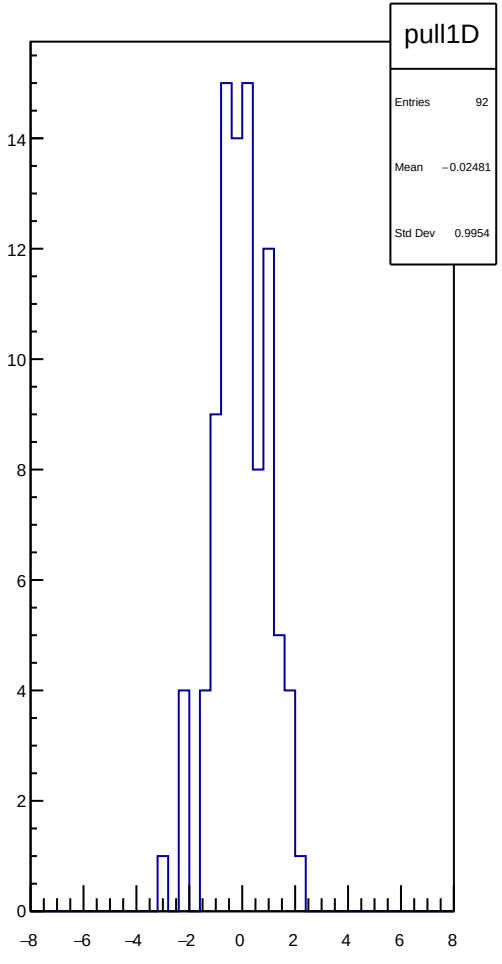

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 5102 / 91
p0 349.5 ± 0.2634
420
400
380
360
340
320

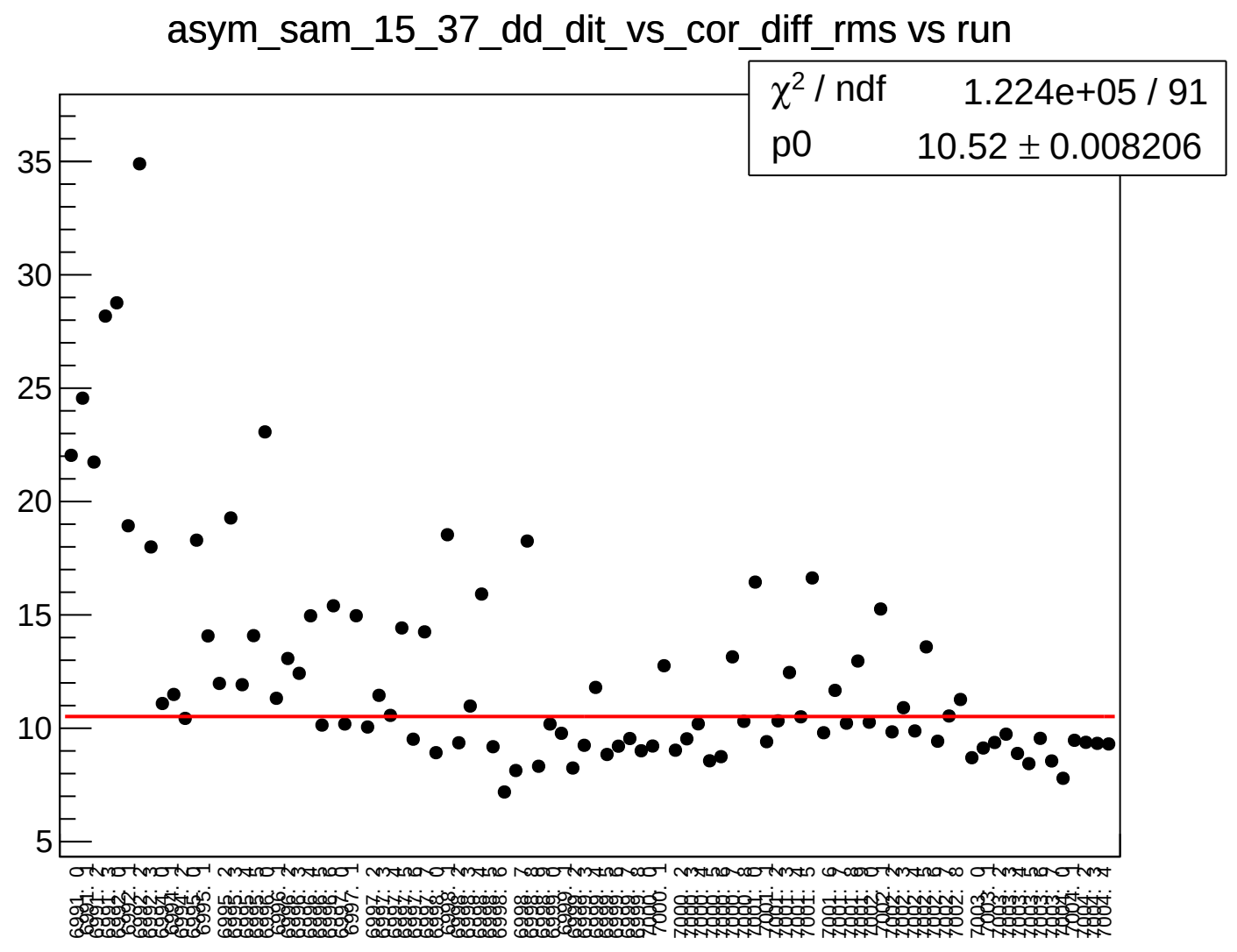

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.1 / 91
p0 9.816e−15 ± 1.396e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 92
Mean −260.4
Std Dev 0
2
1
0
−1
−2
−3

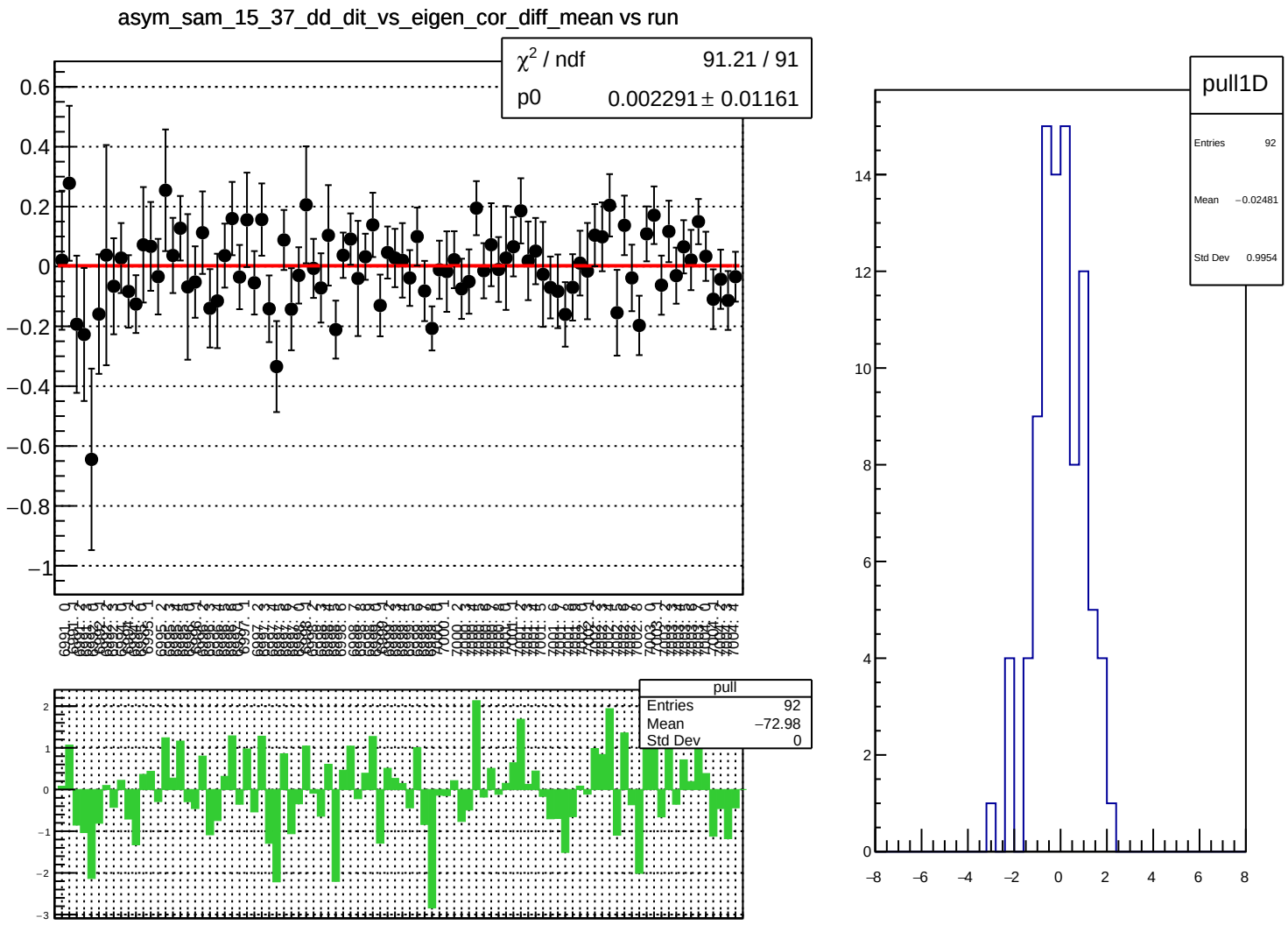

pull1D
Entries 92
Mean 0.008746
Std Dev 1.089
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

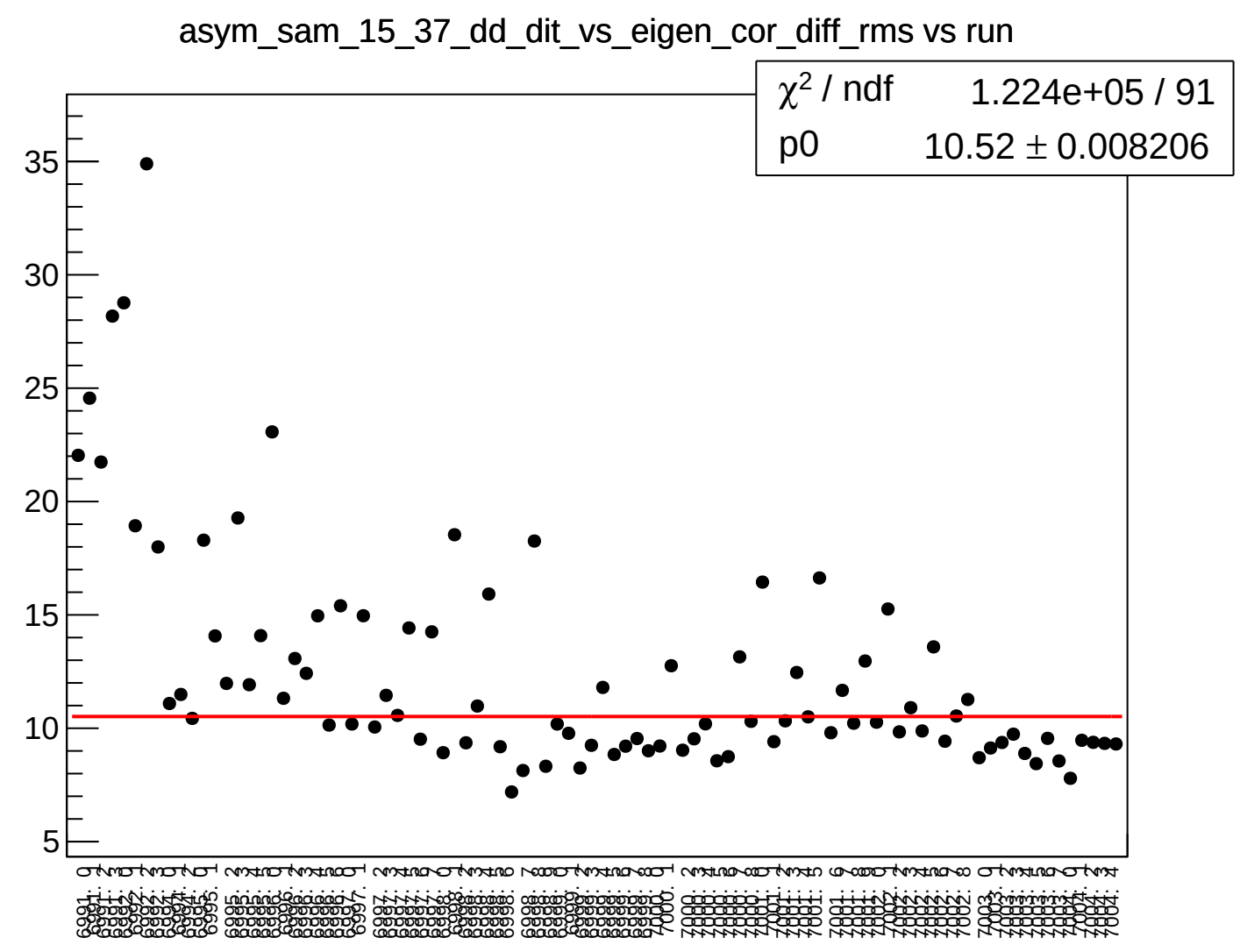

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.141e+06 / 91
p0 7.8e−12 ± 9.872e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

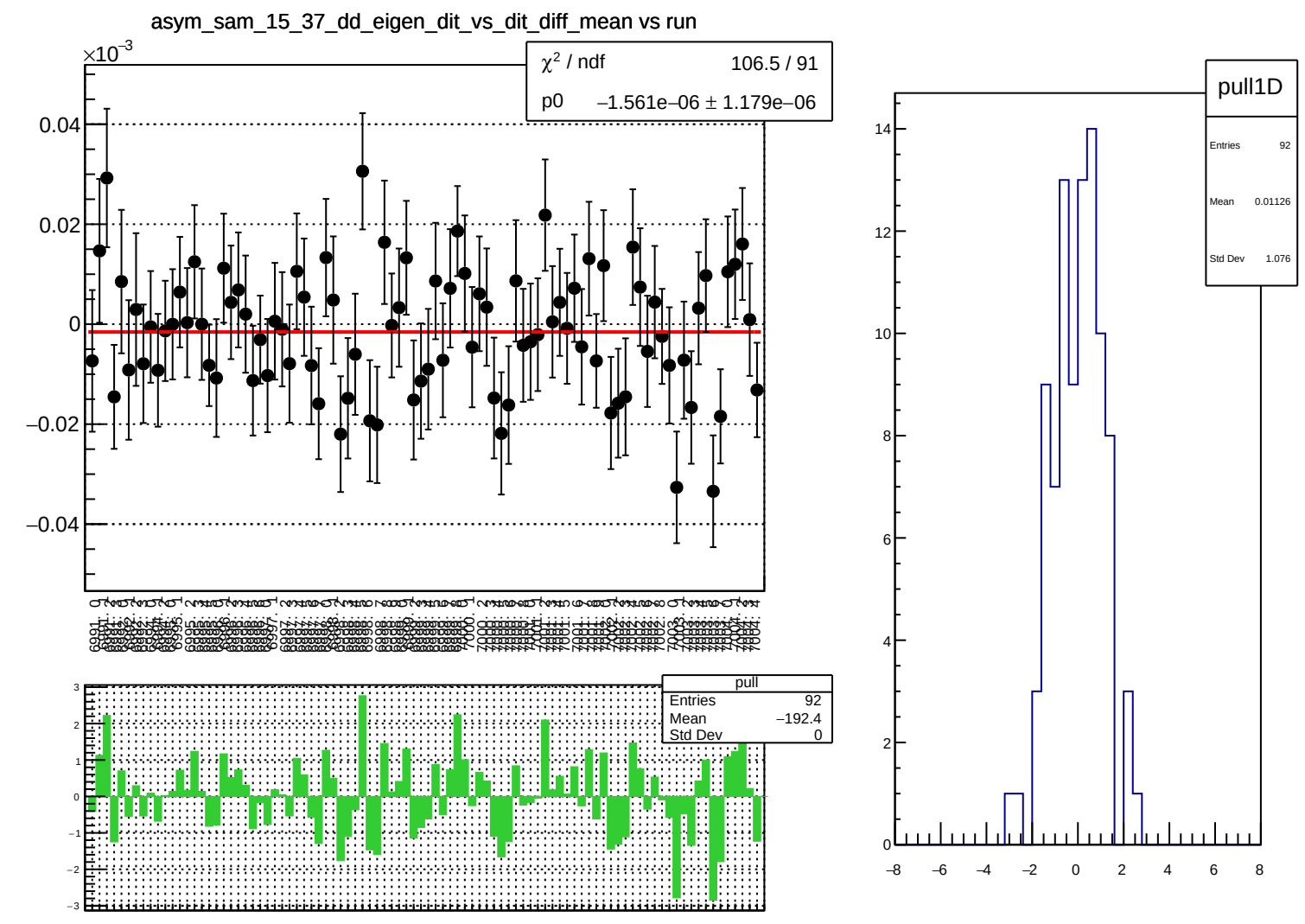

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.21 / 91
p0 0.002291 ± 0.01161
pull
Entries 92
Mean −72.98
Std Dev 0

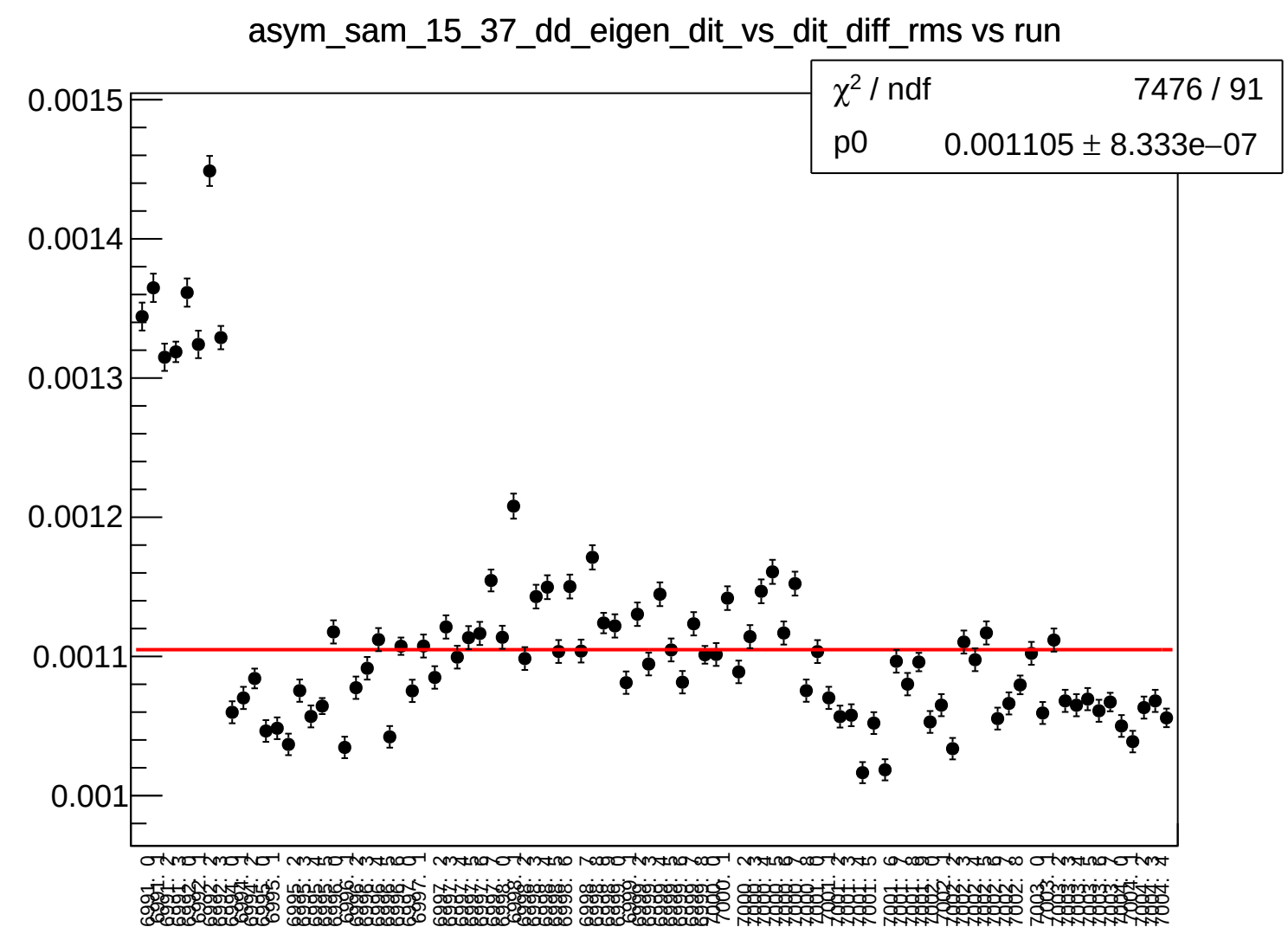

pull1D
Entries 92
Mean −0.02481
Std Dev 0.9954

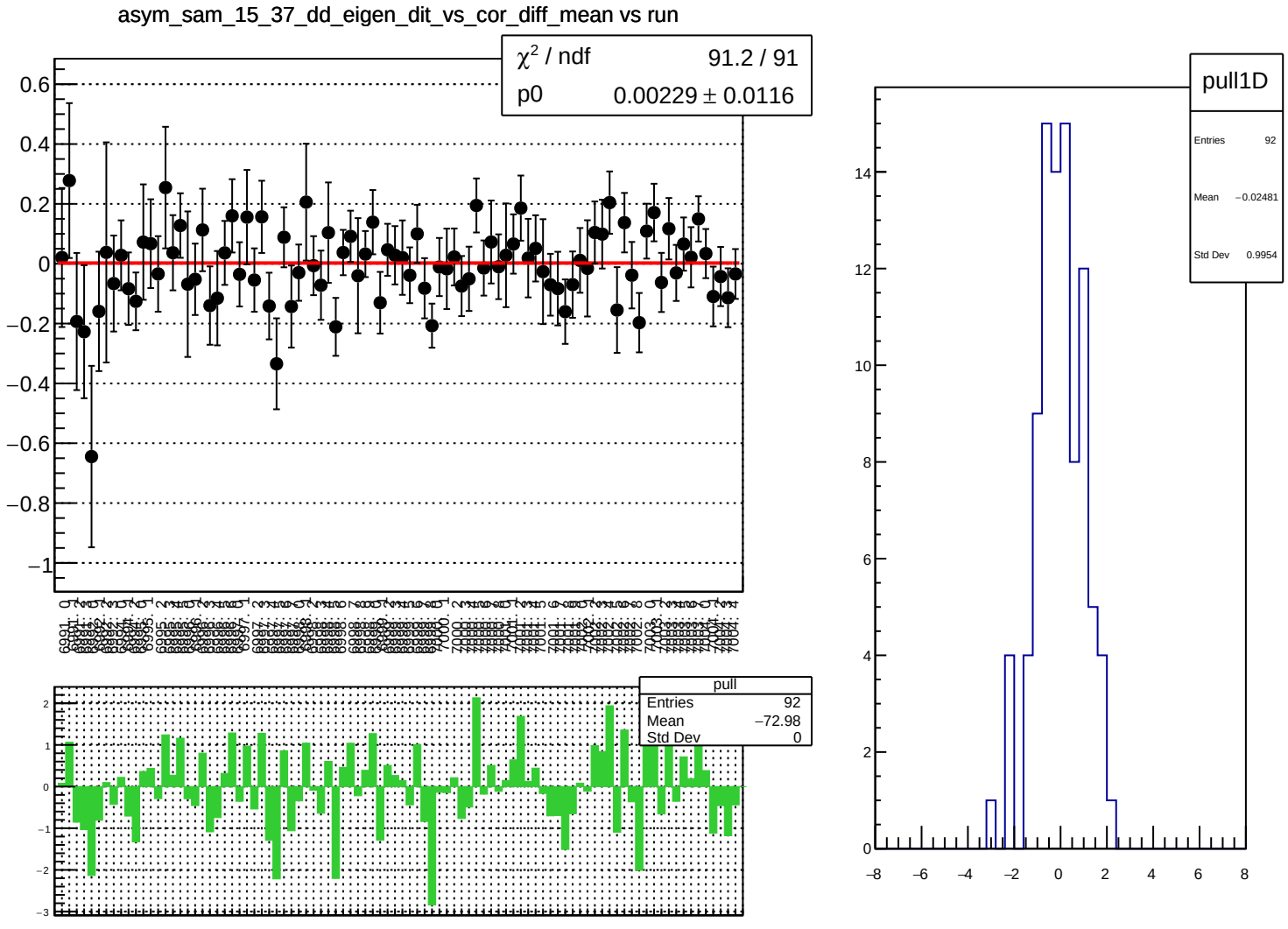

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.224e+05 / 91
p0 10.52 ± 0.008206
35
30
25
20
15
10
5

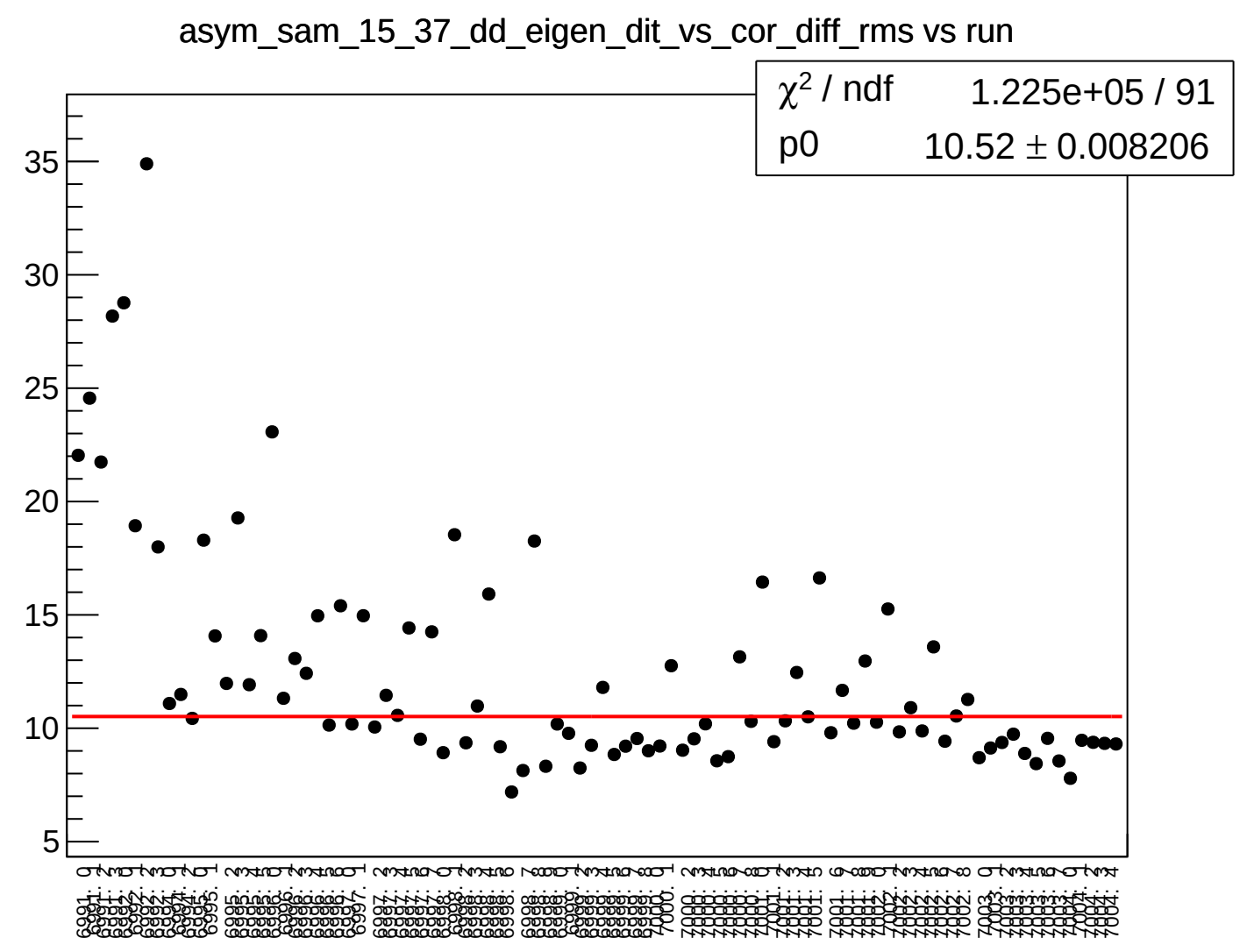

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.21 / 91
p0 0.002291 ± 0.01161
pull
Entries 92
Mean −72.98
Std Dev 0
pull1D
Entries 92
Mean −0.02481
Std Dev 0.9954

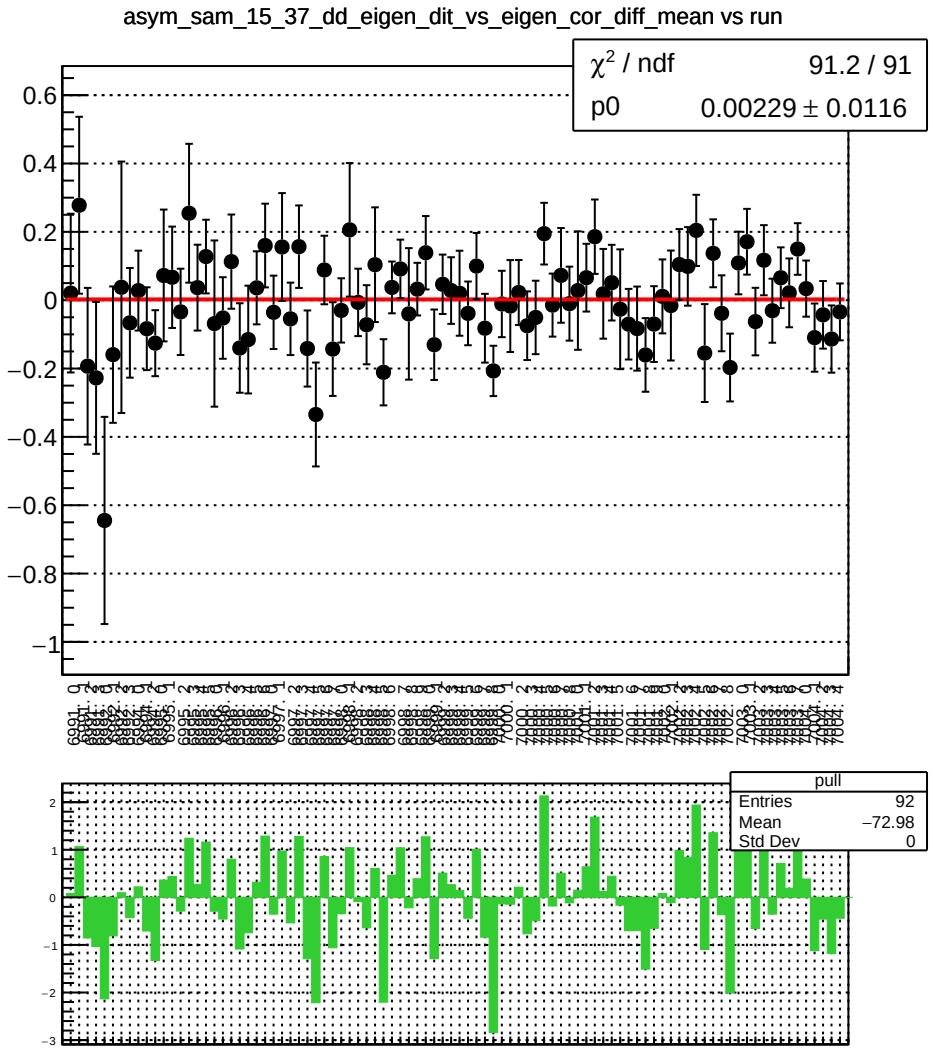

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.224e+05 / 91
p0 10.52 ± 0.008206
35
30
25
20
15
10
5

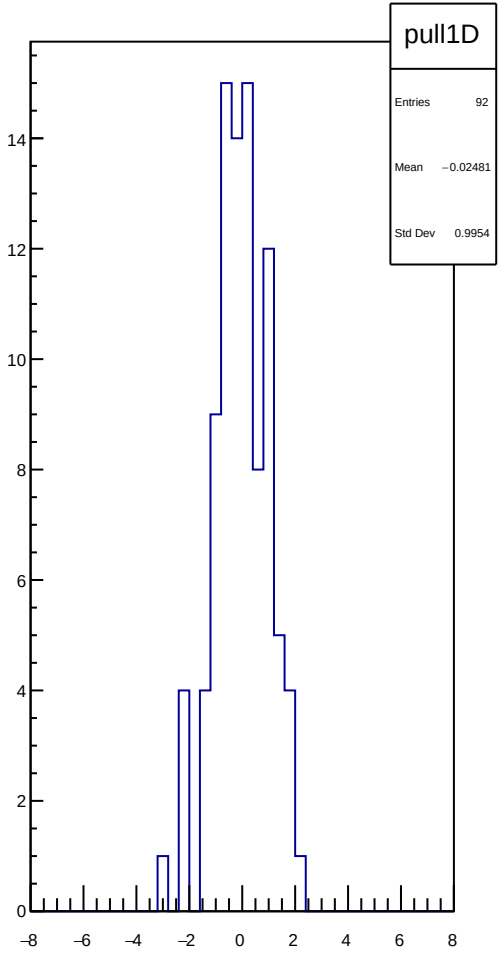

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 106.5 / 91
p0 −1.561e−06 ± 1.179e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean −192.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01126
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

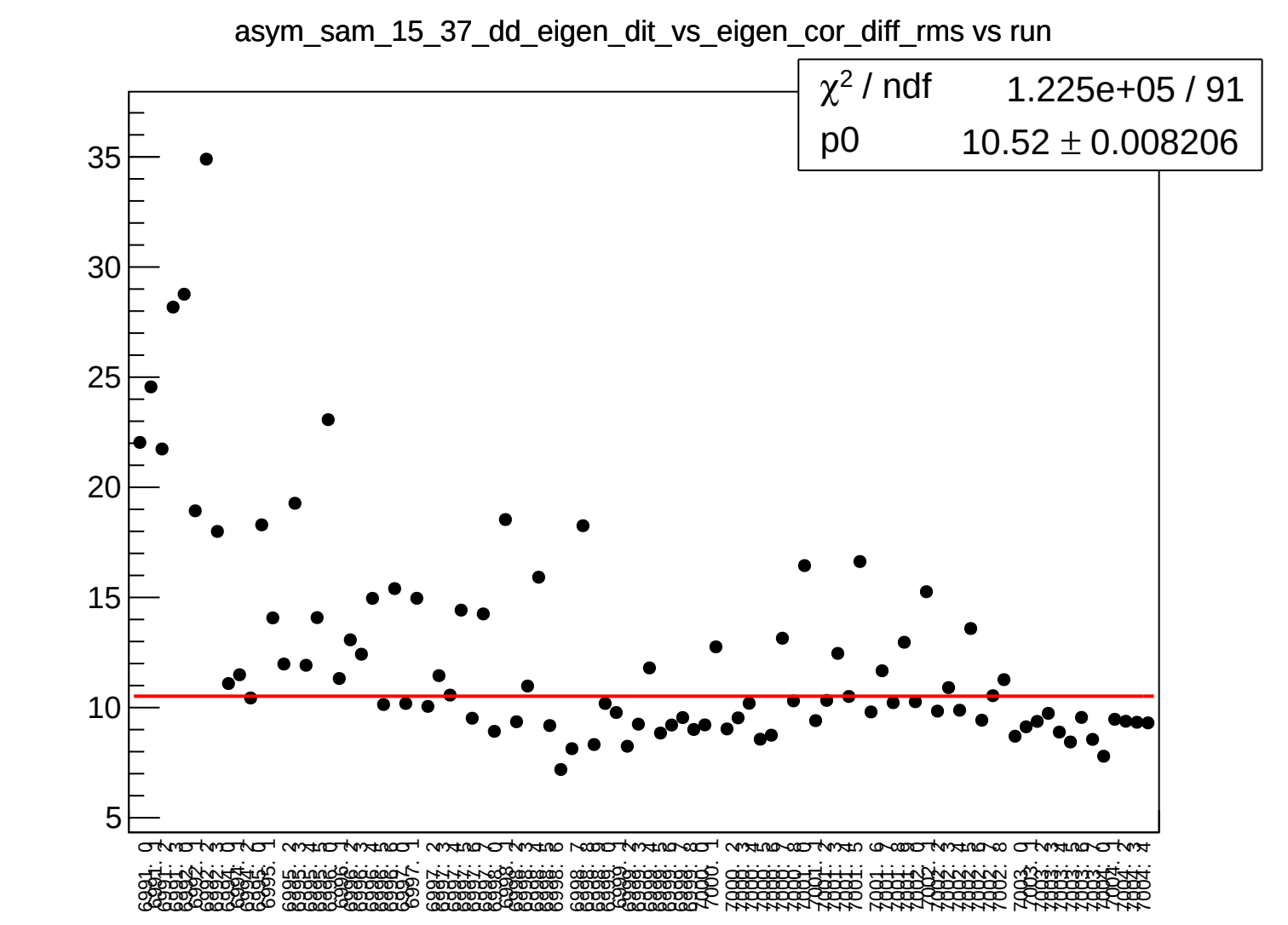

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7476 / 91
p0 0.001105 ± 8.333e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001

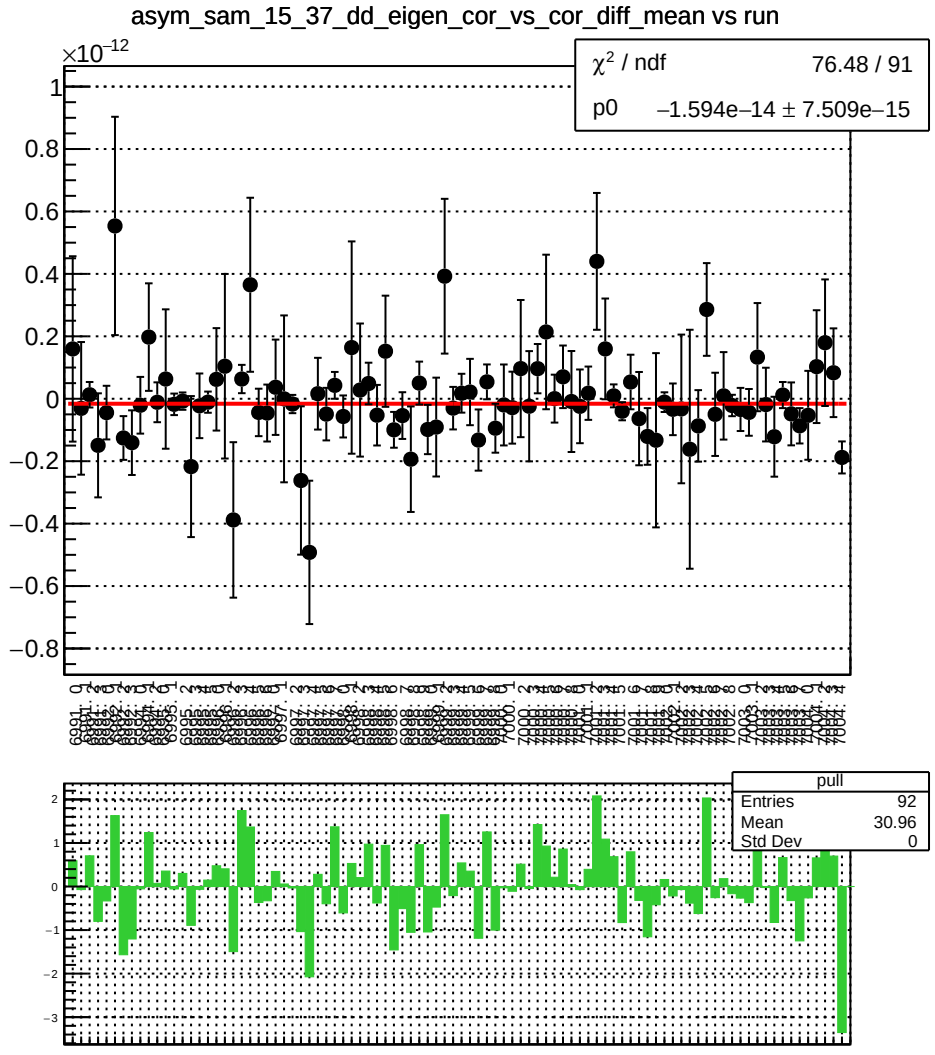

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.2 / 91
p0 0.00229 ± 0.0116
pull
Entries 92
Mean −72.98
Std Dev 0
pull1D
Entries 92
Mean −0.02481
Std Dev 0.9954

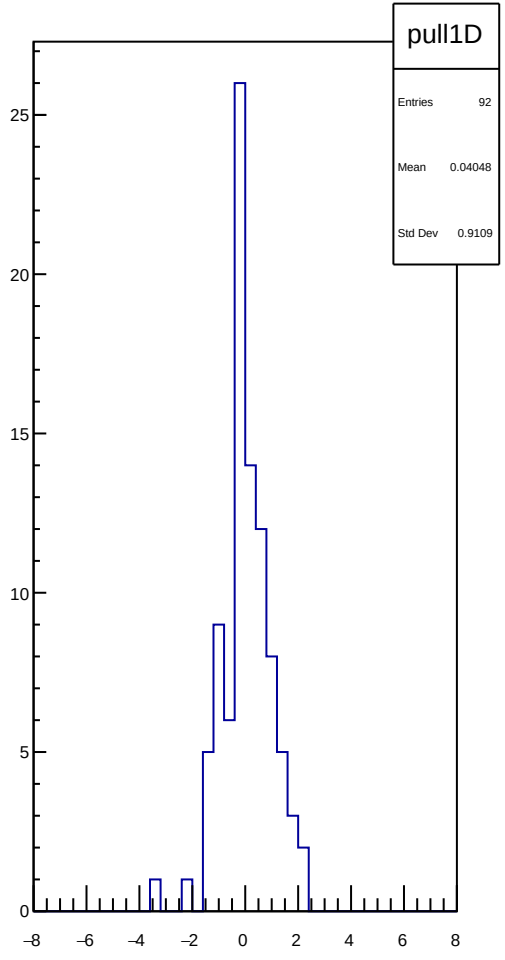

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.225e+05 / 91
p0 10.52 ± 0.008206
35
30
25
20
15
10
5

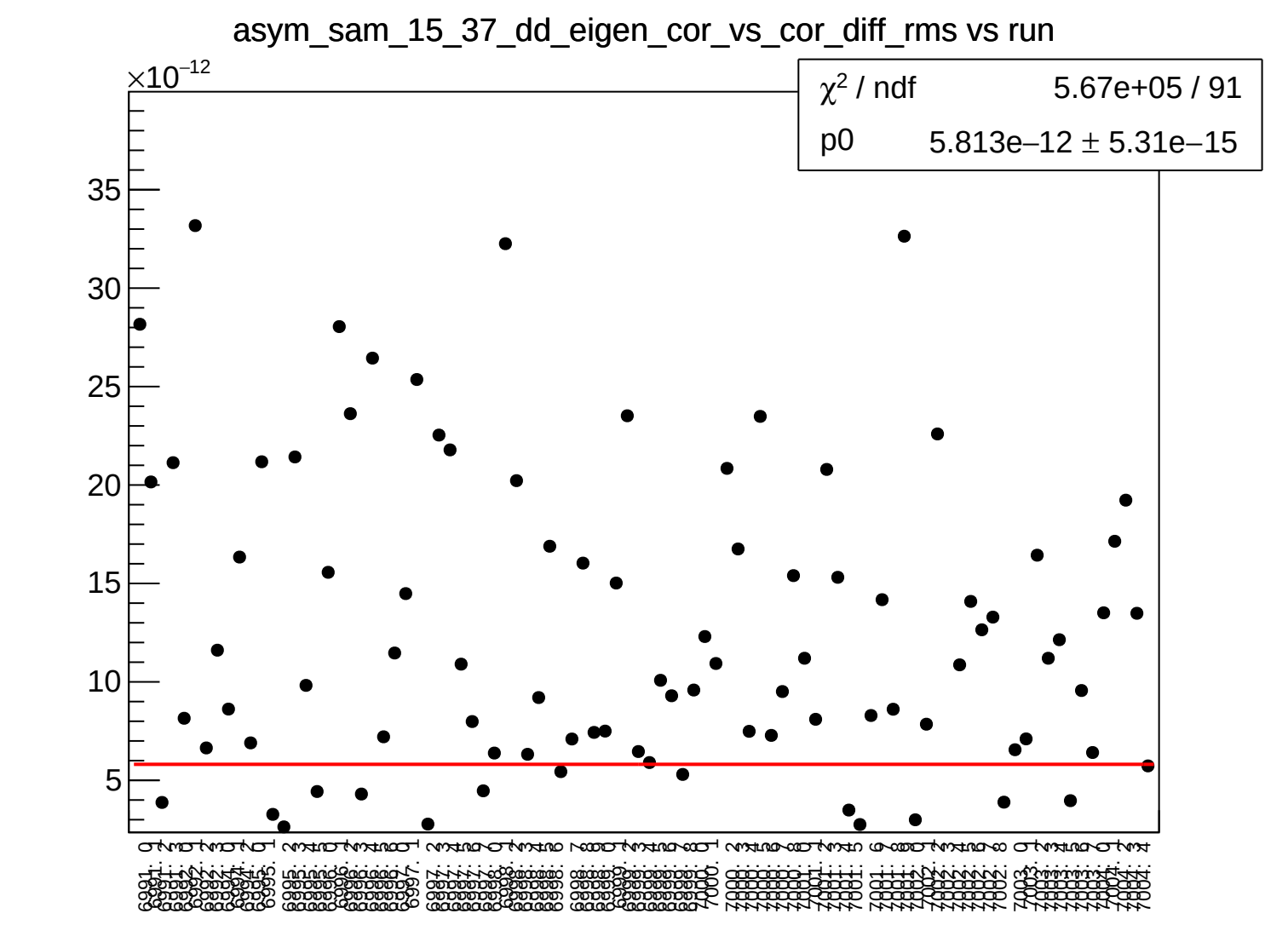

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.2 / 91
p0 0.00229 ± 0.0116
pull
Entries 92
Mean −72.98
Std Dev 0

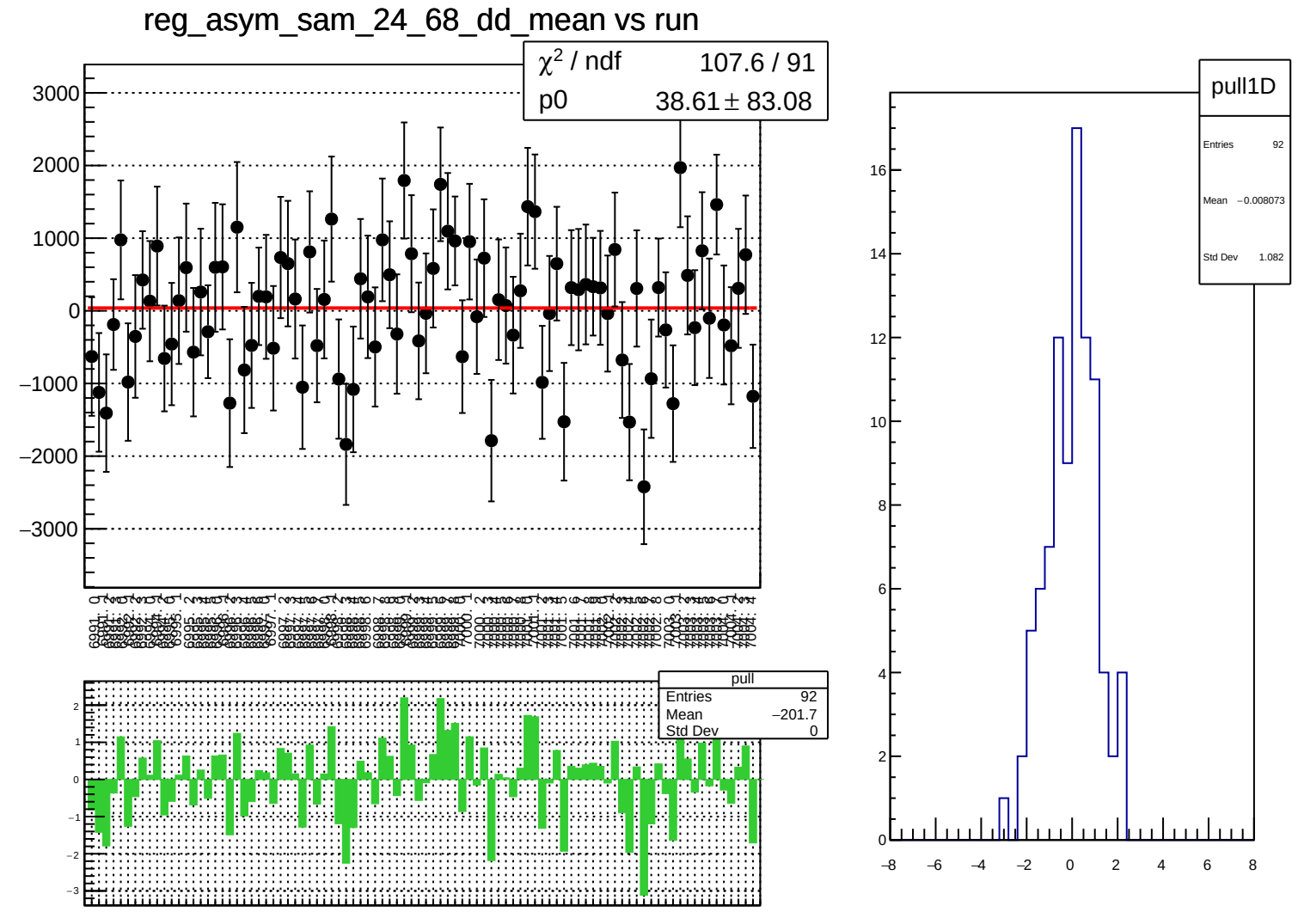

pull1D
Entries 92
Mean −0.02481
Std Dev 0.9954

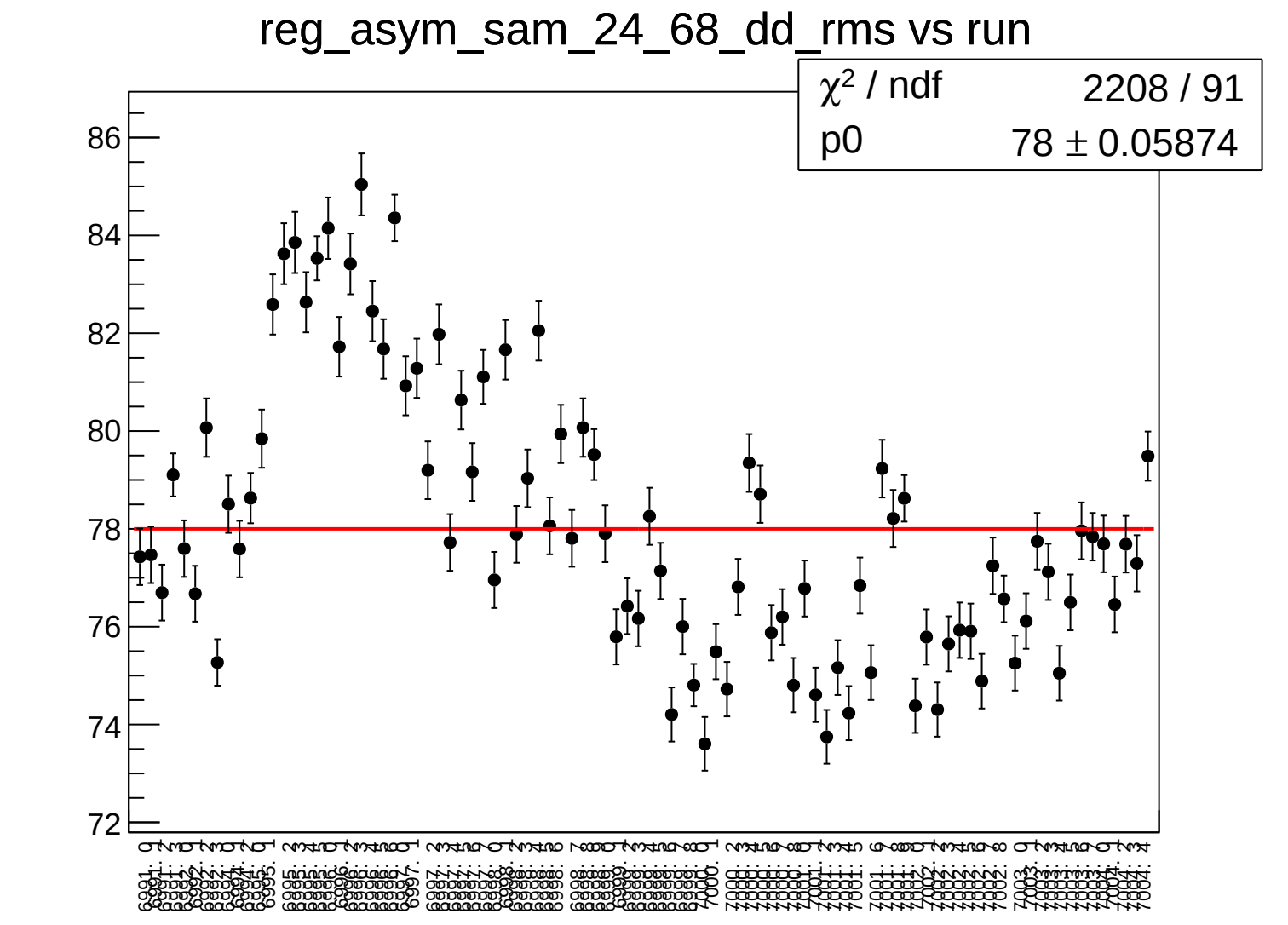

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.225e+05 / 91
p0 10.52 ± 0.008206
35
30
25
20
15
10
5

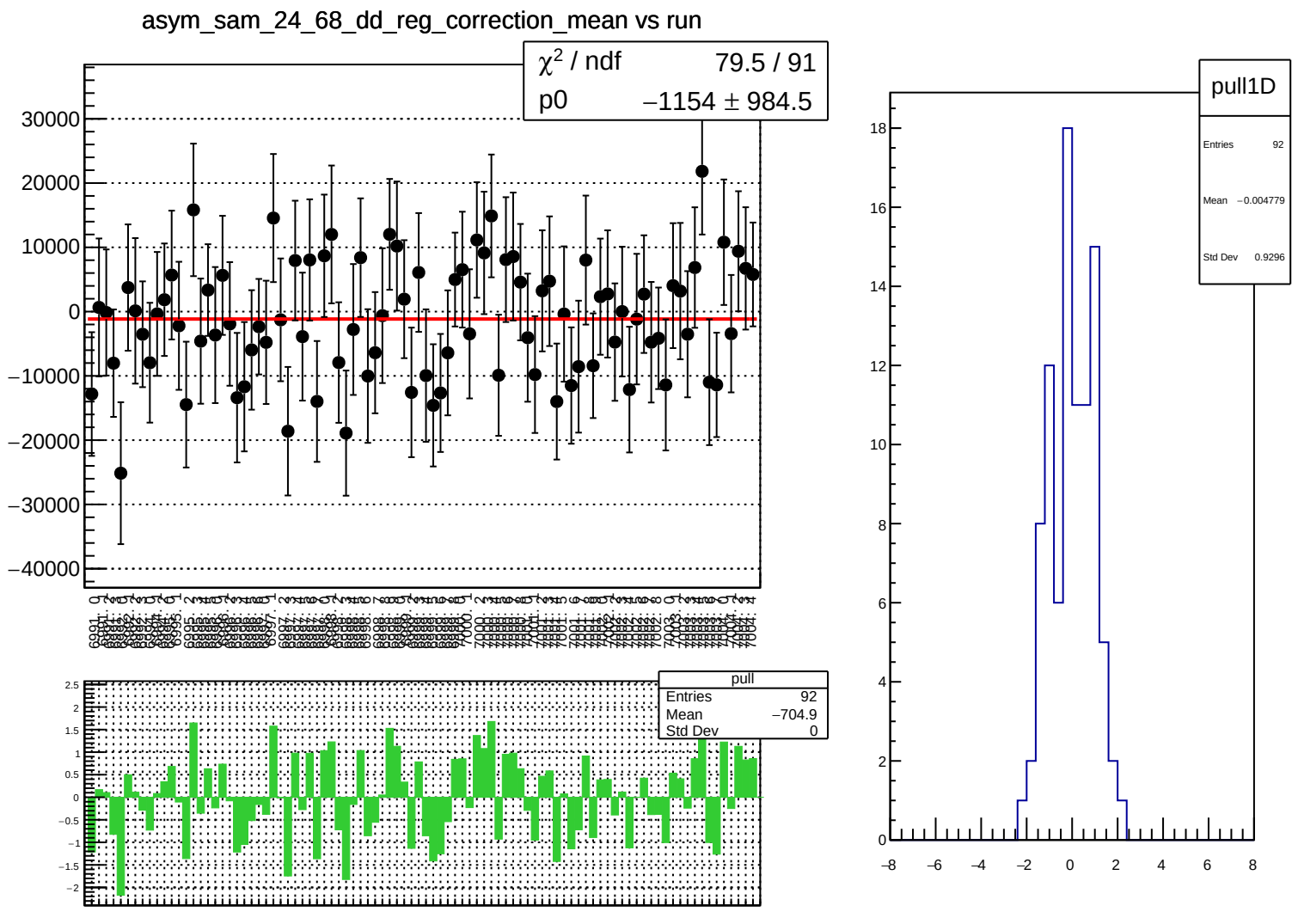

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.48 / 91
p0 −1.594e−14 ± 7.509e−15
pull
Entries 92
Mean 30.96
Std Dev 0

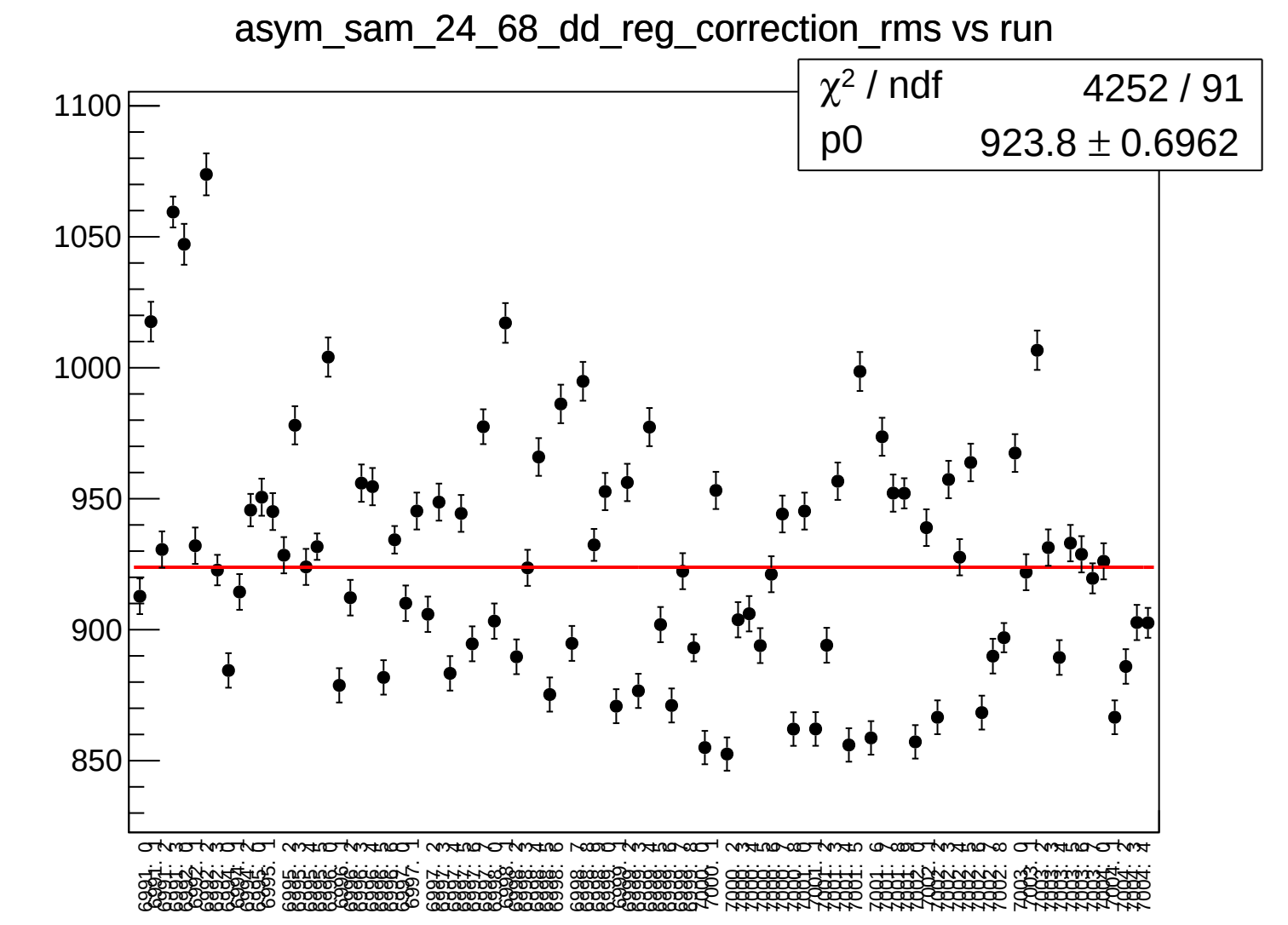

pull1D
Entries 92
Mean 0.04048
Std Dev 0.9109

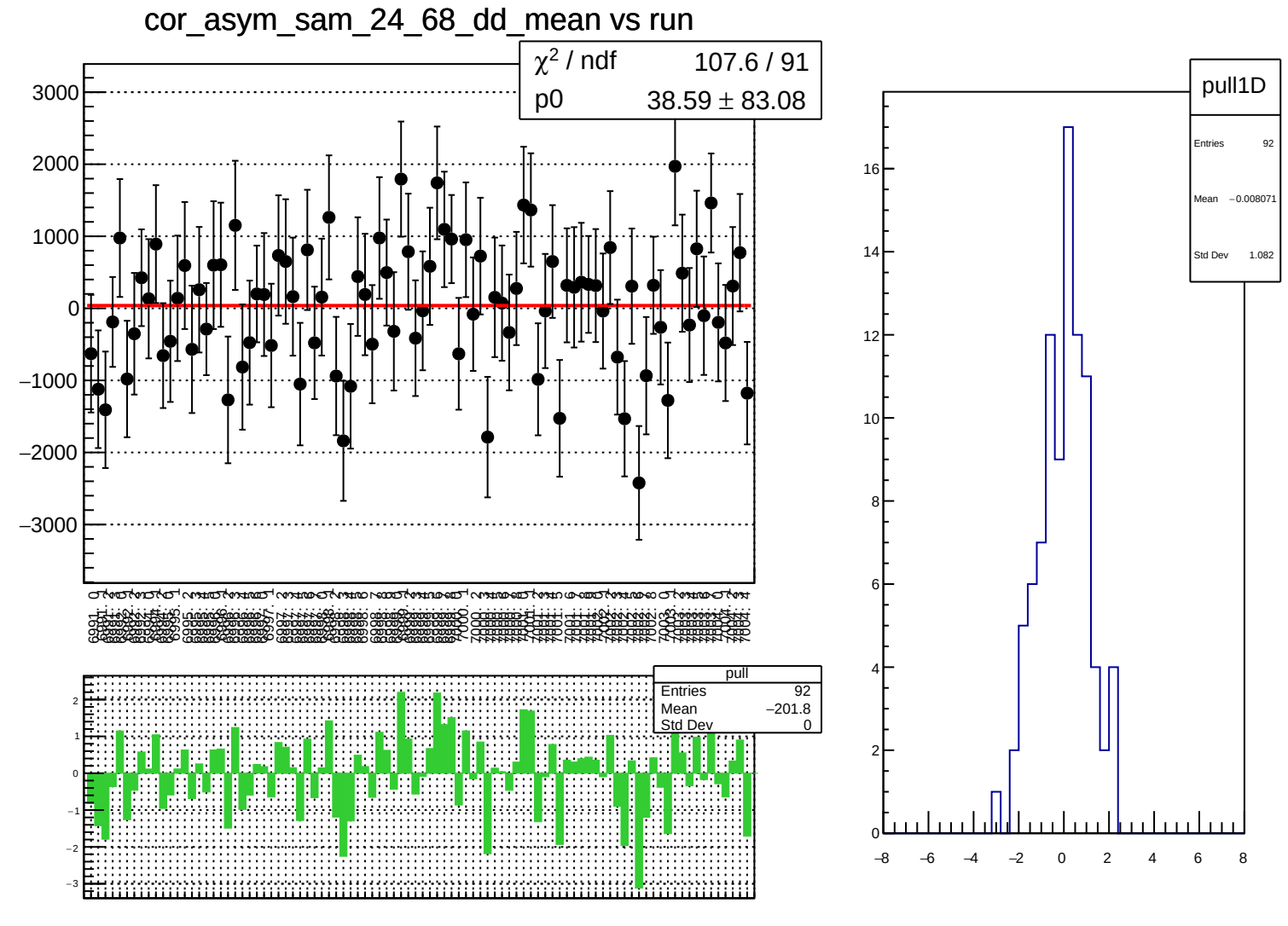

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.67e+05 / 91
p0 5.813e−12 ± 5.31e−15
35
30
25
20
15
10
5

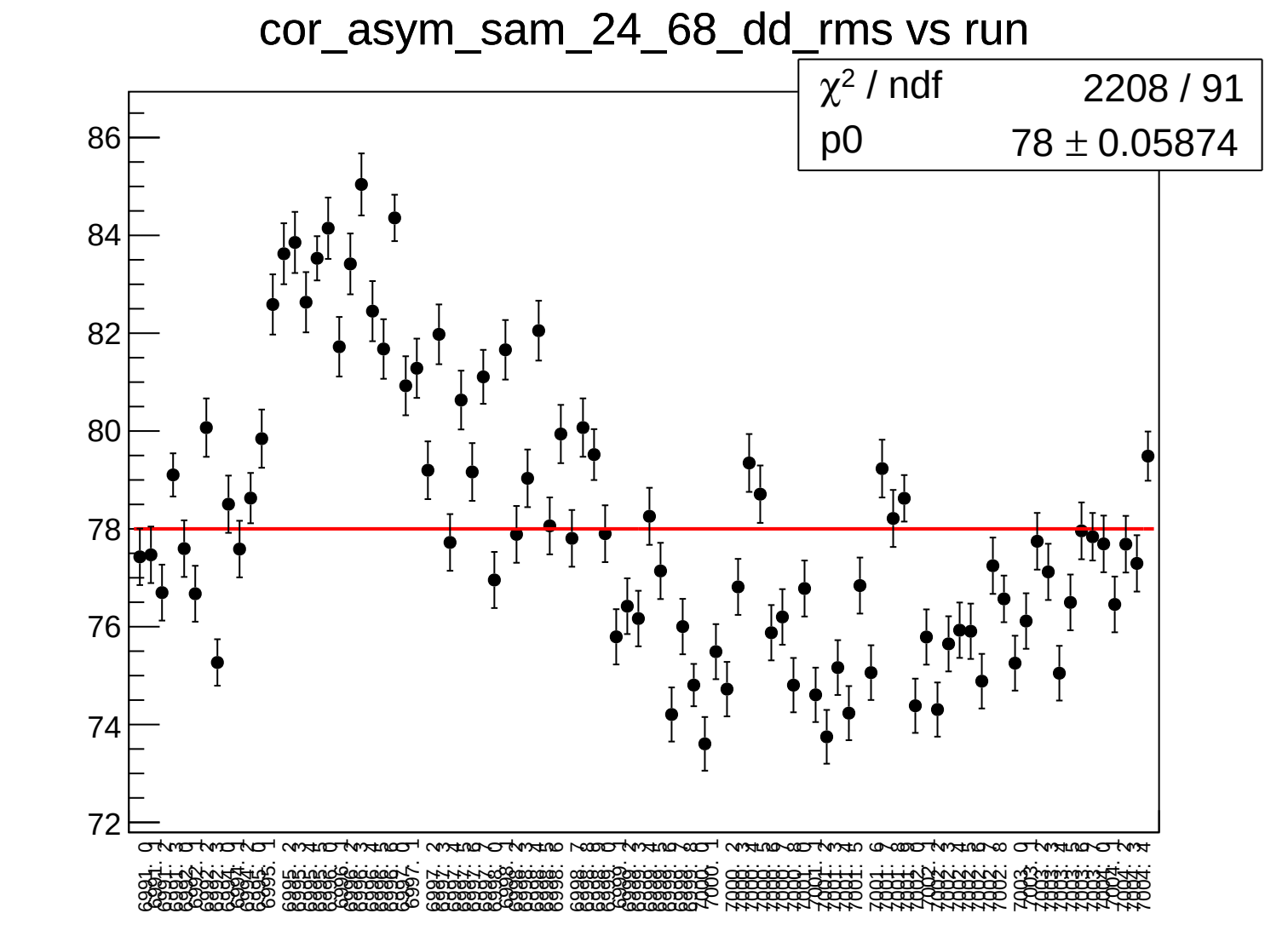

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 107.6 / 91
p0 38.61 ± 83.08
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −201.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.008073
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

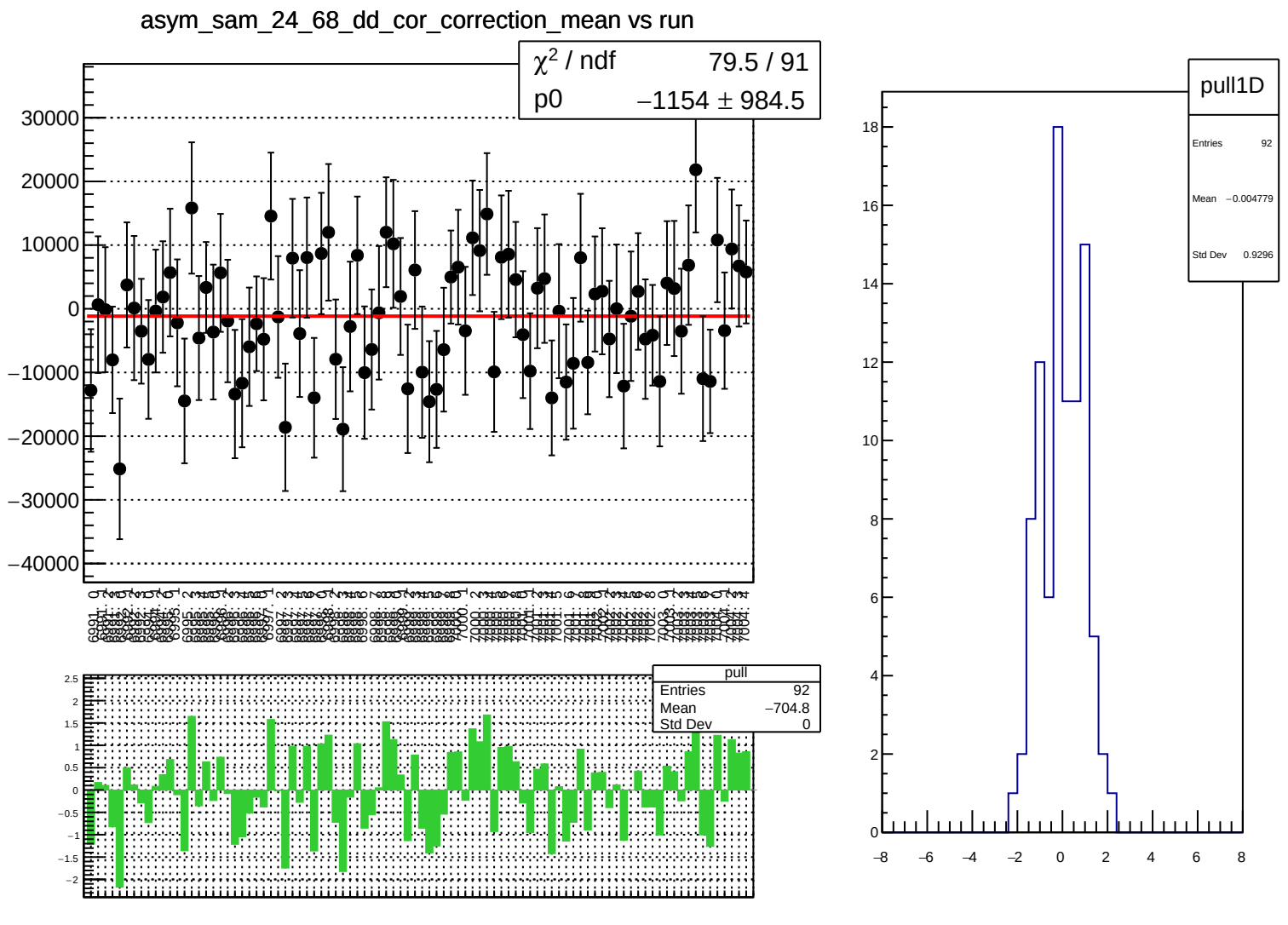

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 2208 / 91
p0 78 ± 0.05874
86
84
82
80
78
76
74
72

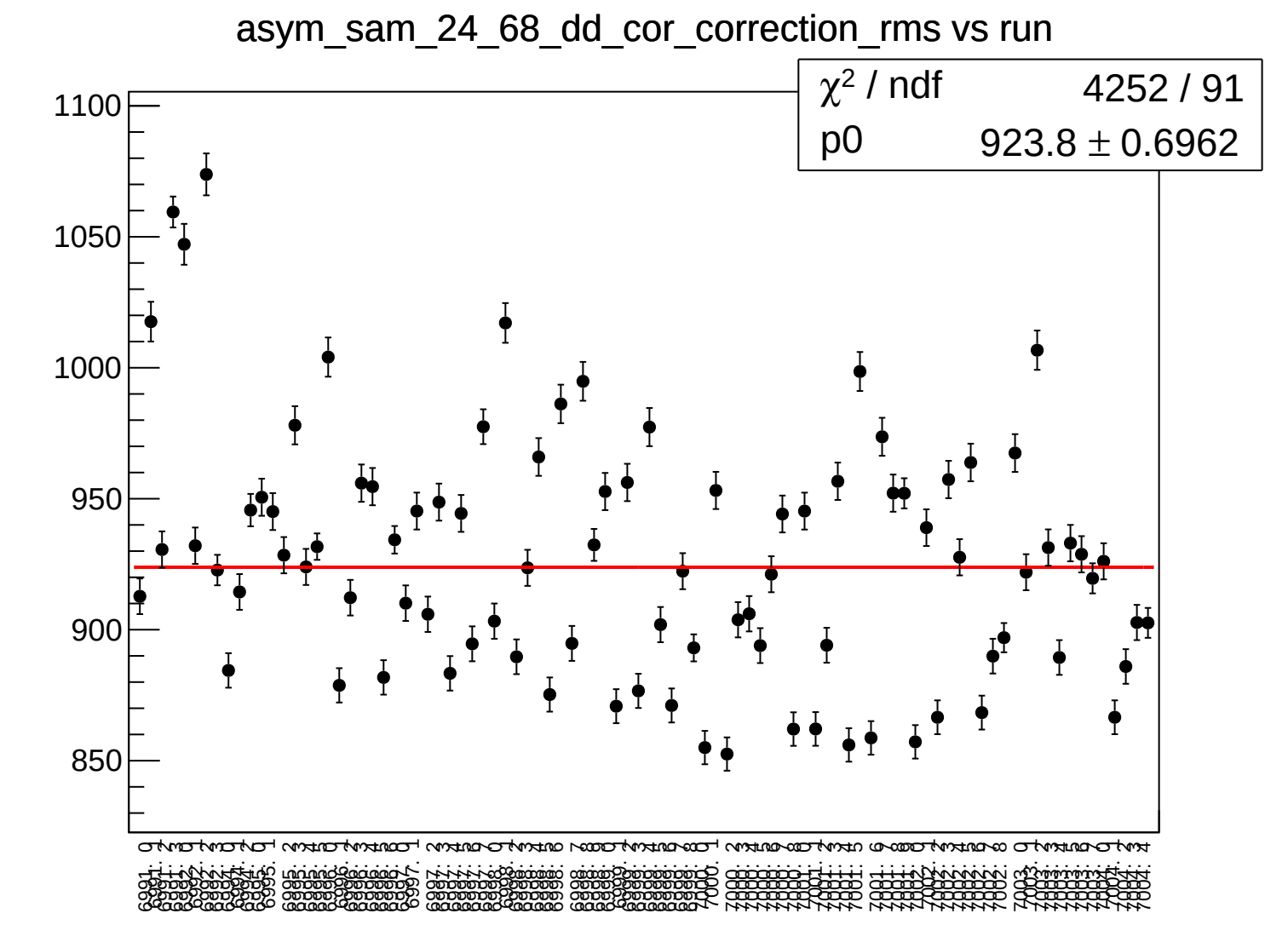

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 79.5 / 91
p0 −1154 ± 984.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −704.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.004779
Std Dev 0.9296
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

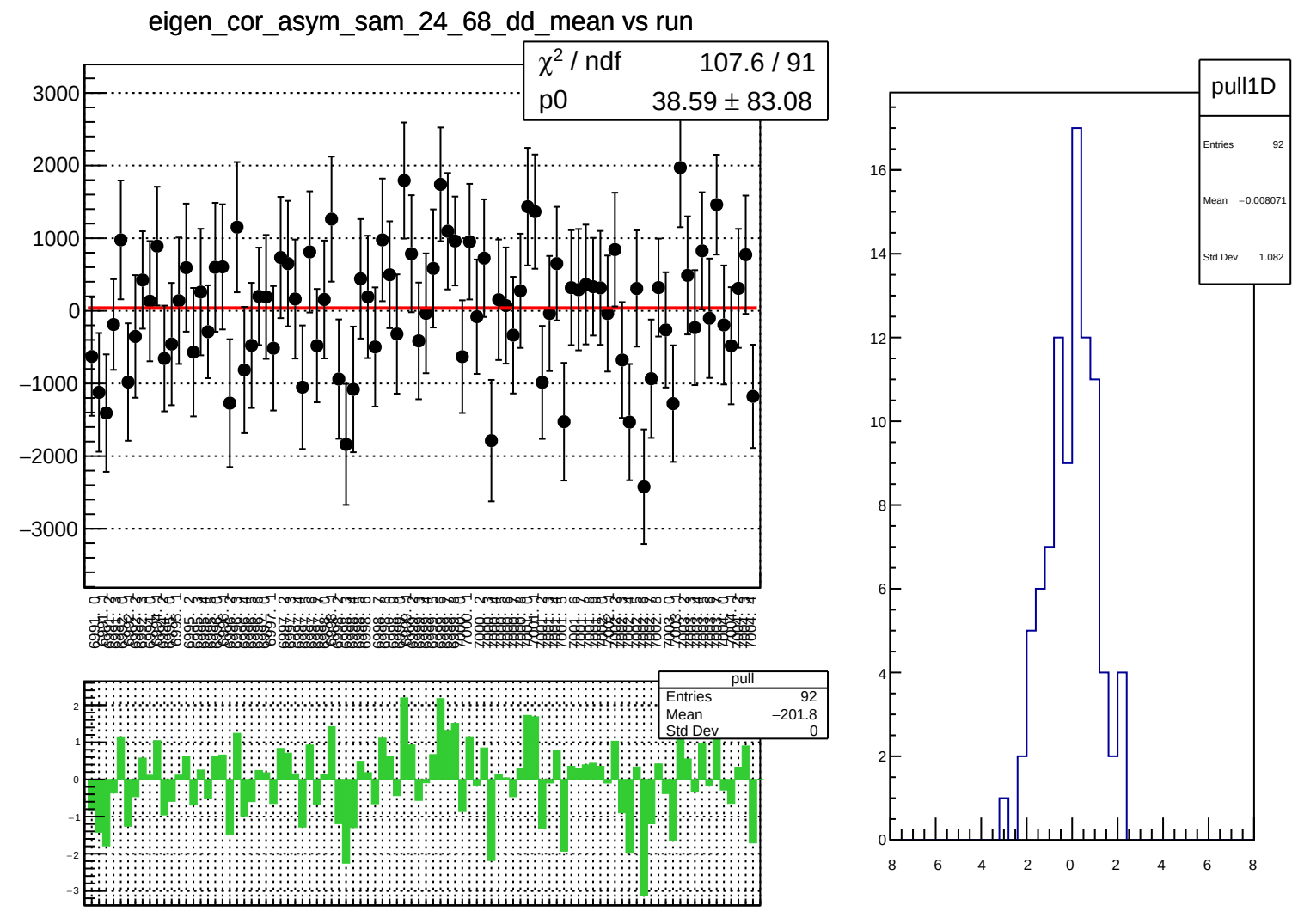

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4252 / 91
p0 923.8 ± 0.6962
1100
1050
1000
950
900
850

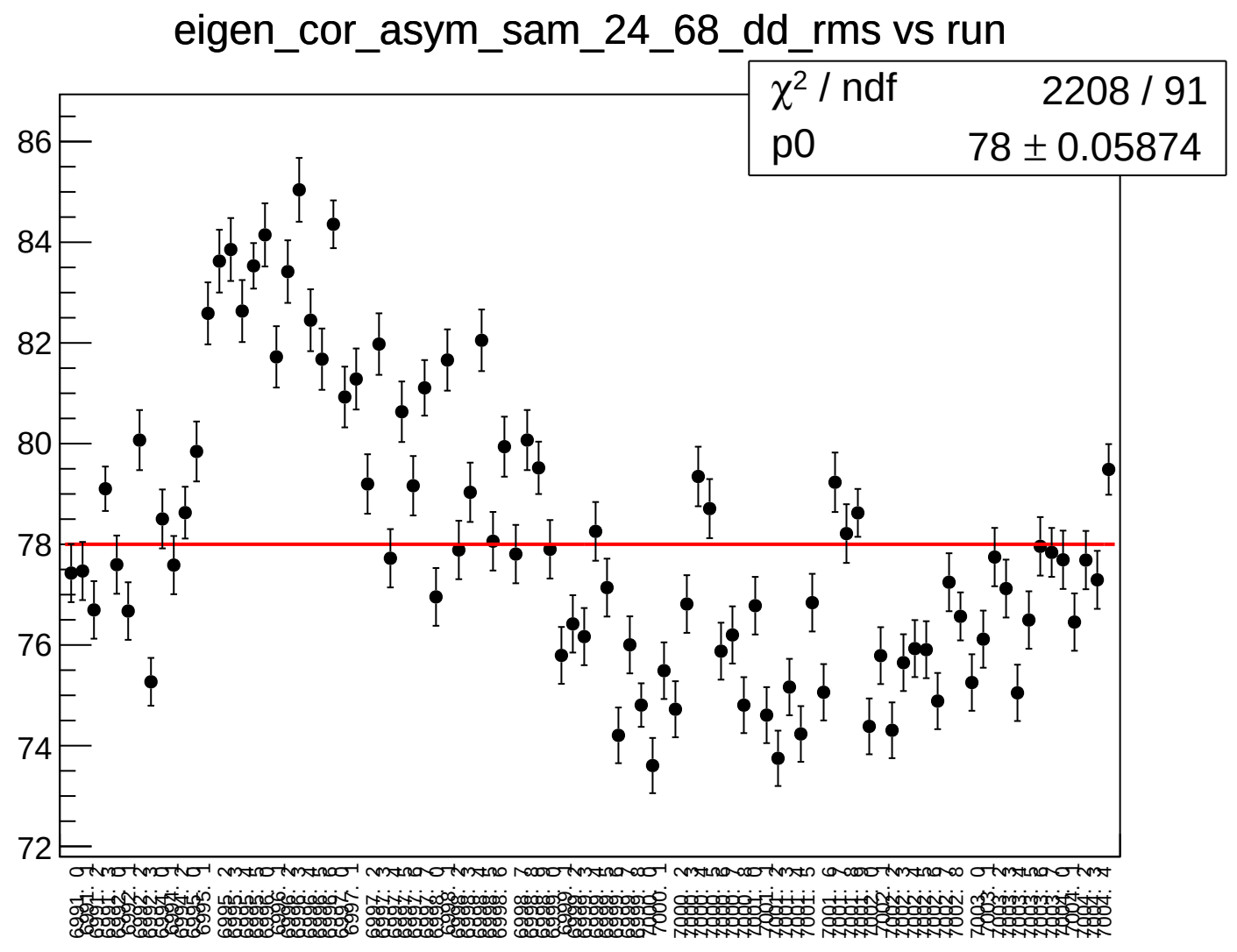

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 107.6 / 91
p0 38.59 ± 83.08
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −201.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.008071
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

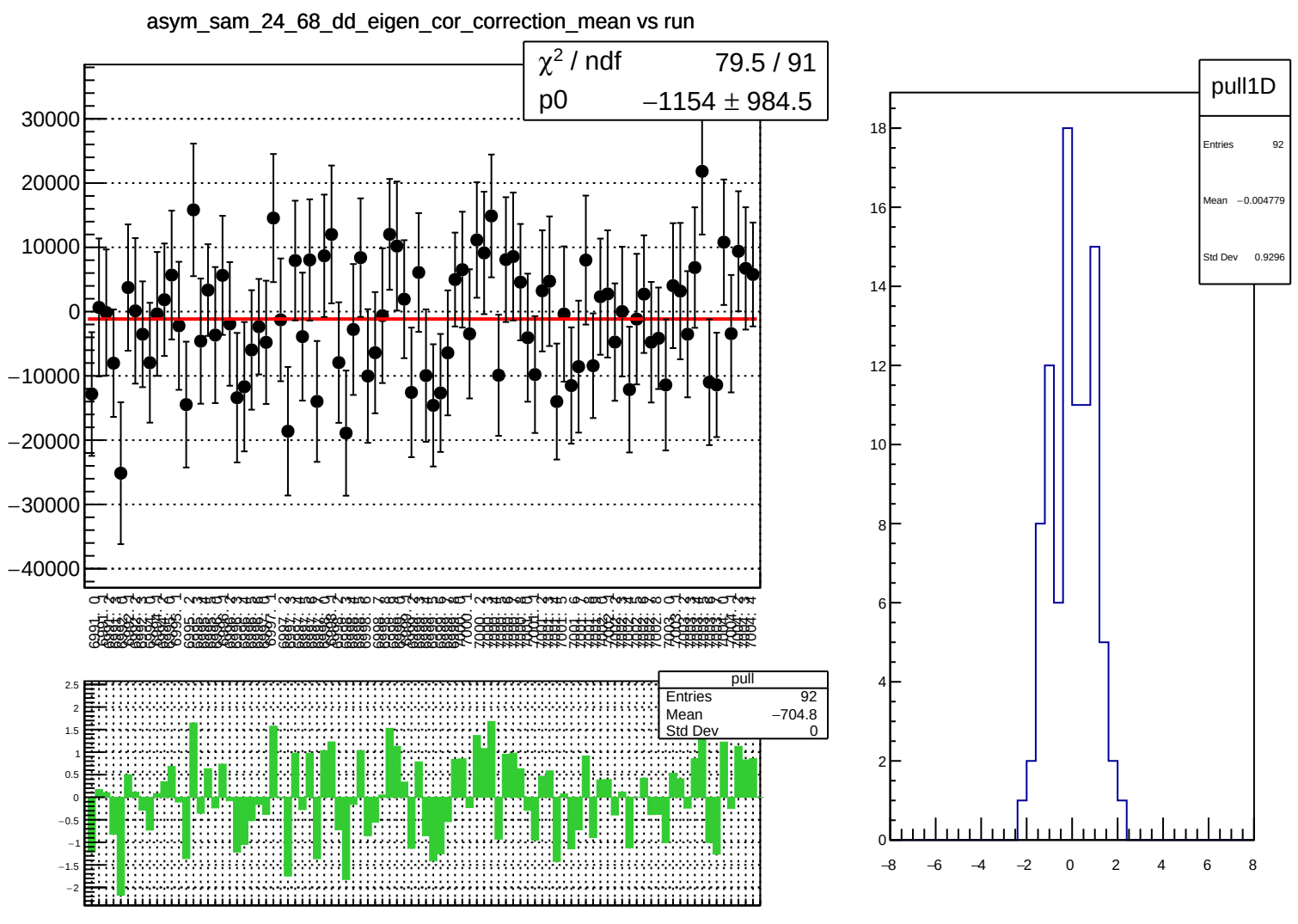

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 2208 / 91
p0 78 ± 0.05874
86
84
82
80
78
76
74
72

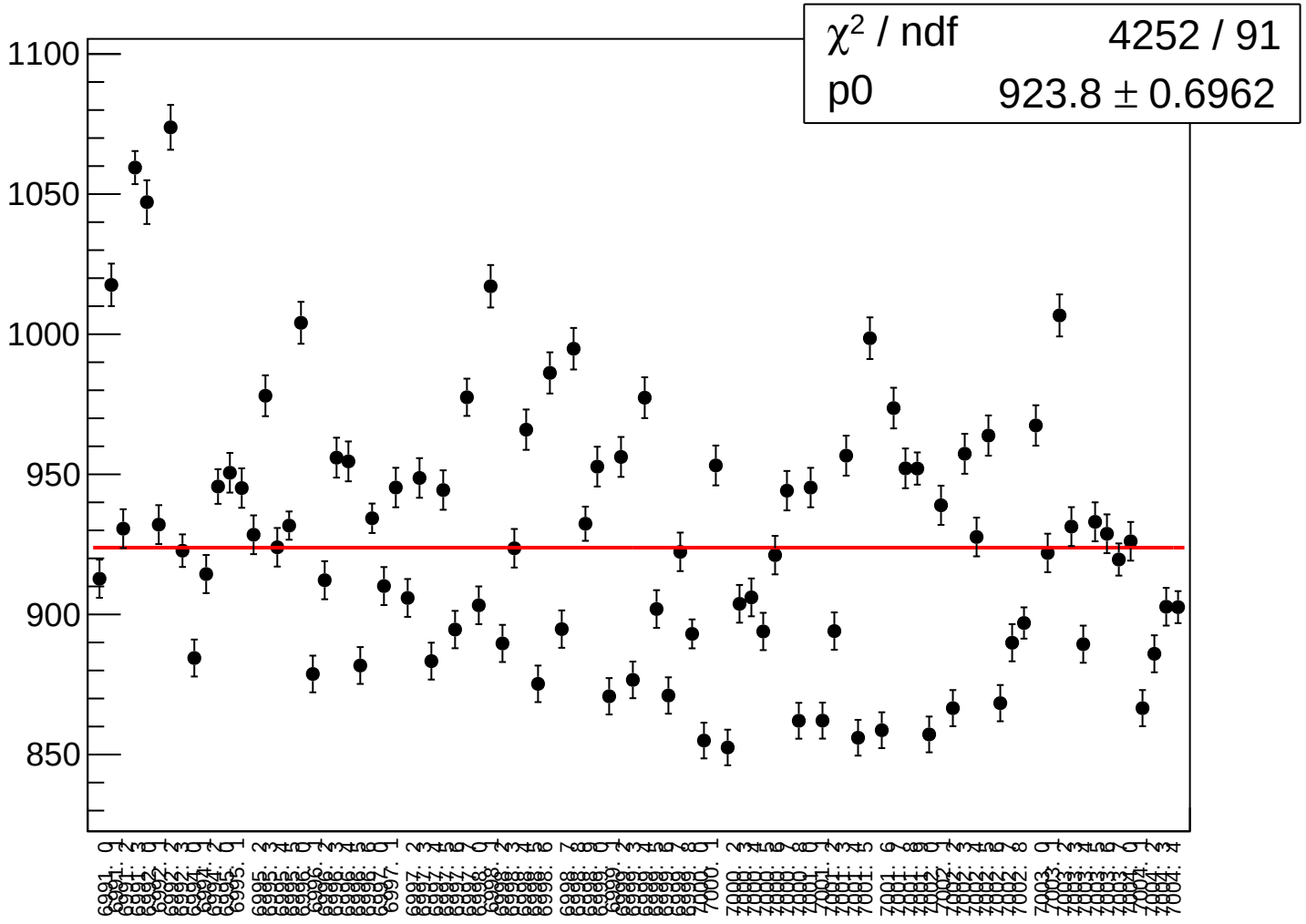

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 79.5 / 91
p0 −1154 ± 984.5
pull
Entries 92
Mean −704.8
Std Dev 0
pull1D
Entries 92
Mean −0.004779
Std Dev 0.9296

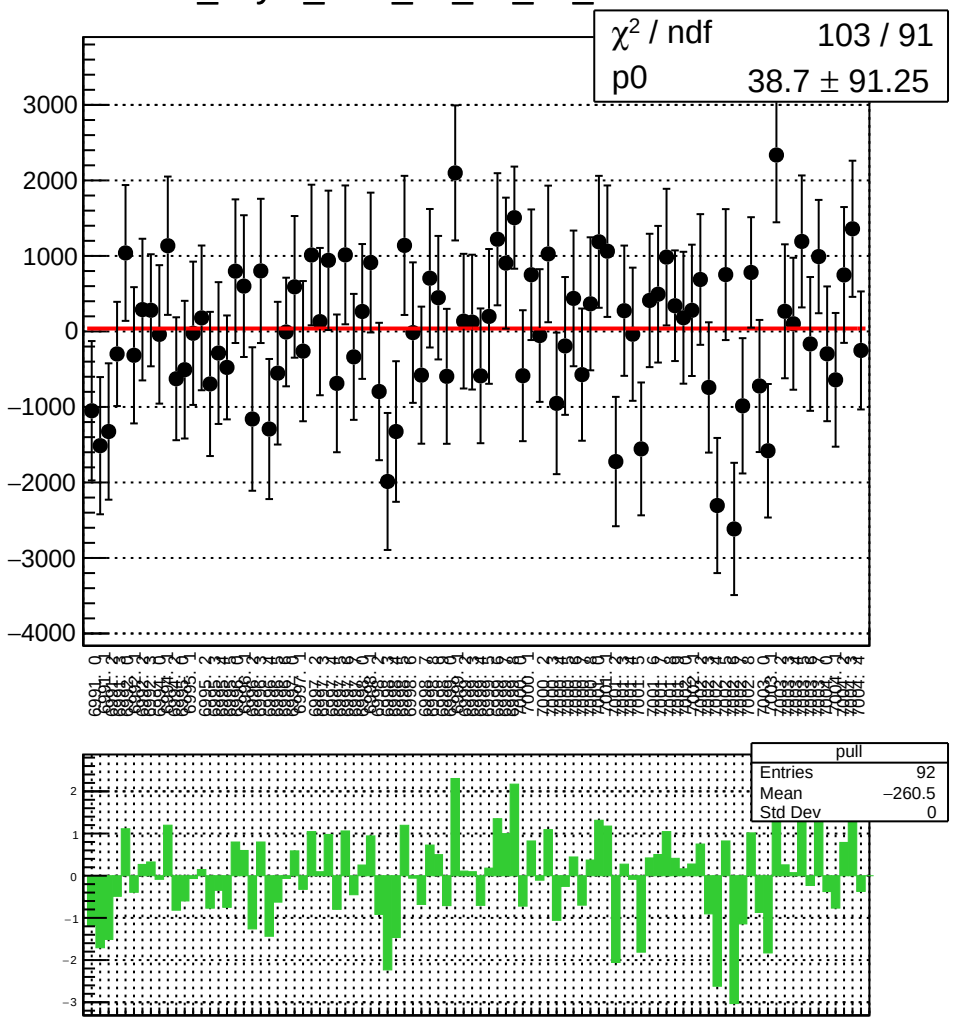

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4252 / 91
p0 923.8 ± 0.6962
1100
1050
1000
950
900
850

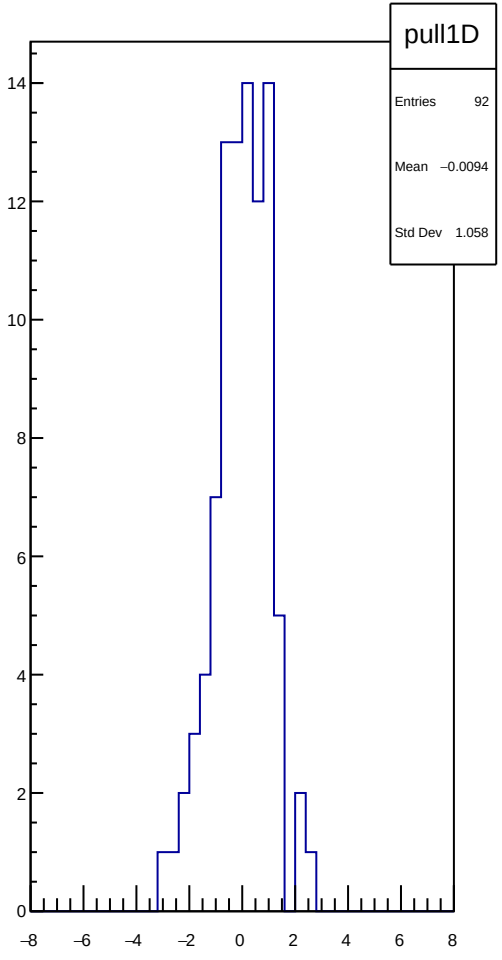

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 107.6 / 91
p0 38.59 ± 83.08
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −201.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.008071
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

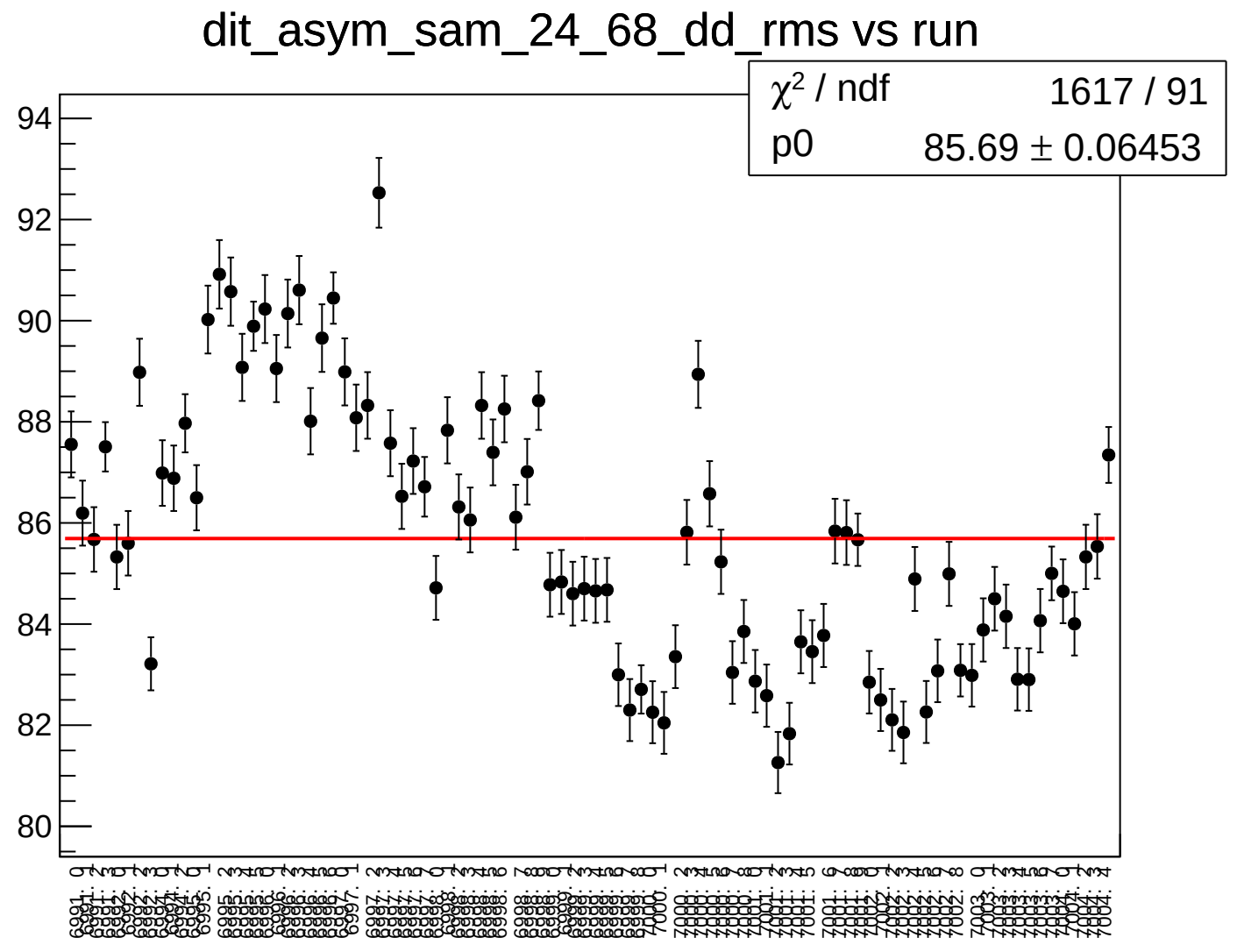

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 2208 / 91
p0 78 ± 0.05874
86
84
82
80
78
76
74
72

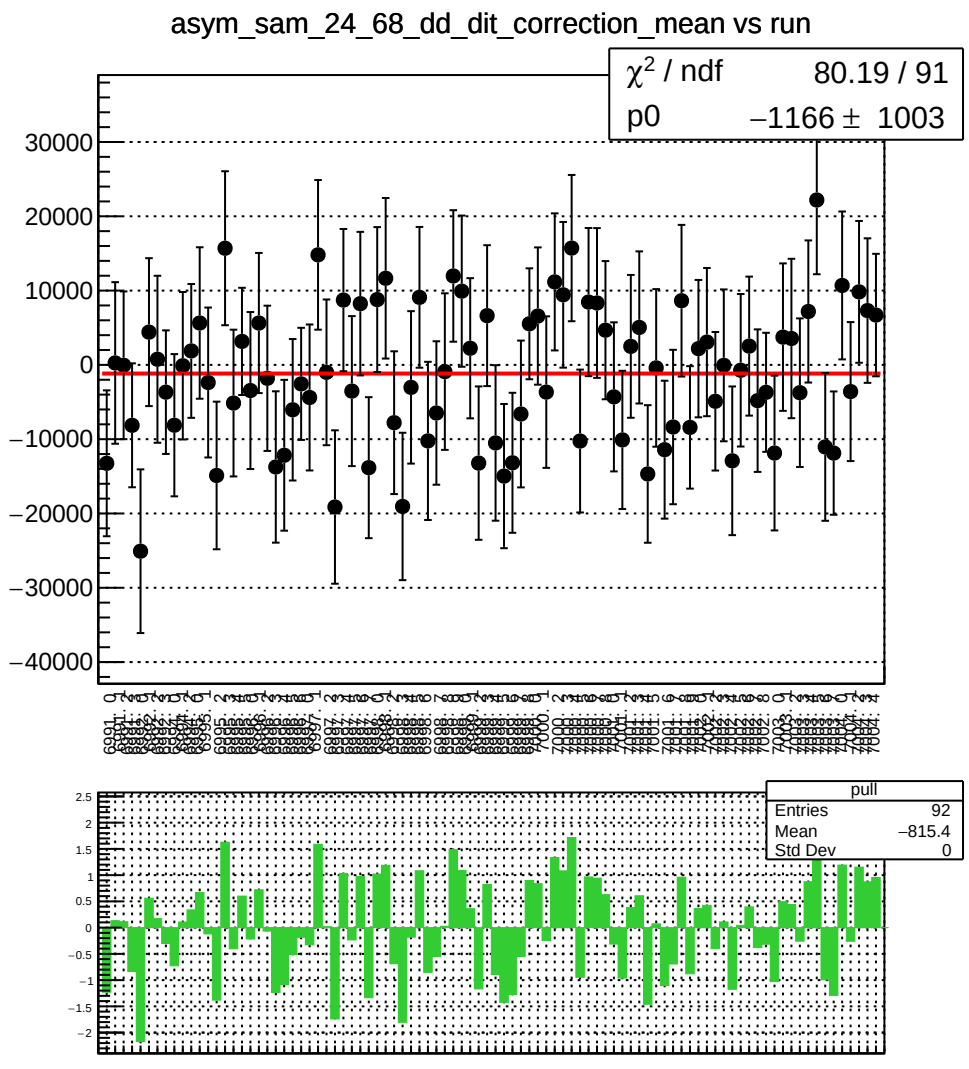

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.5 / 91
p0 −1154 ± 984.5
pull
Entries 92
Mean −704.8
Std Dev 0
pull1D
Entries 92
Mean −0.004779
Std Dev 0.9296

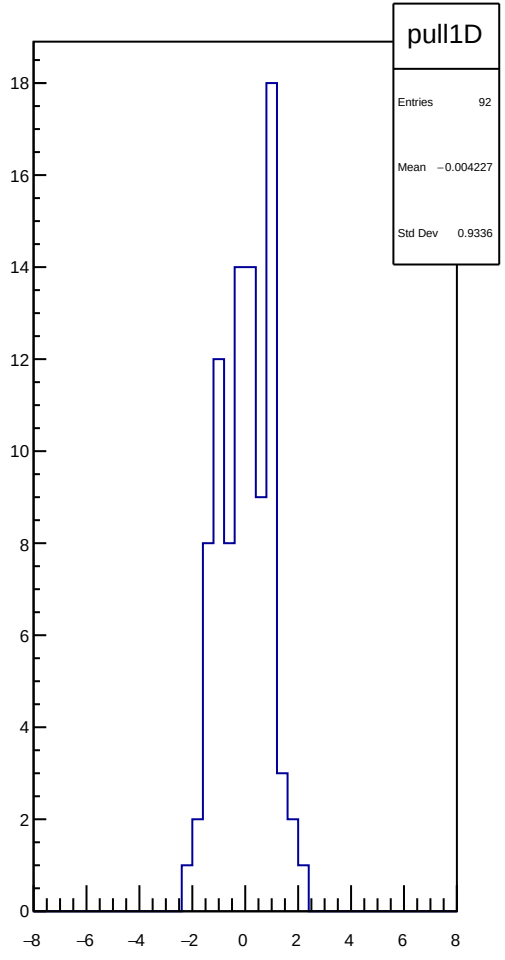

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4252 / 91
p0 923.8 ± 0.6962
1100
1050
1000
950
900
850

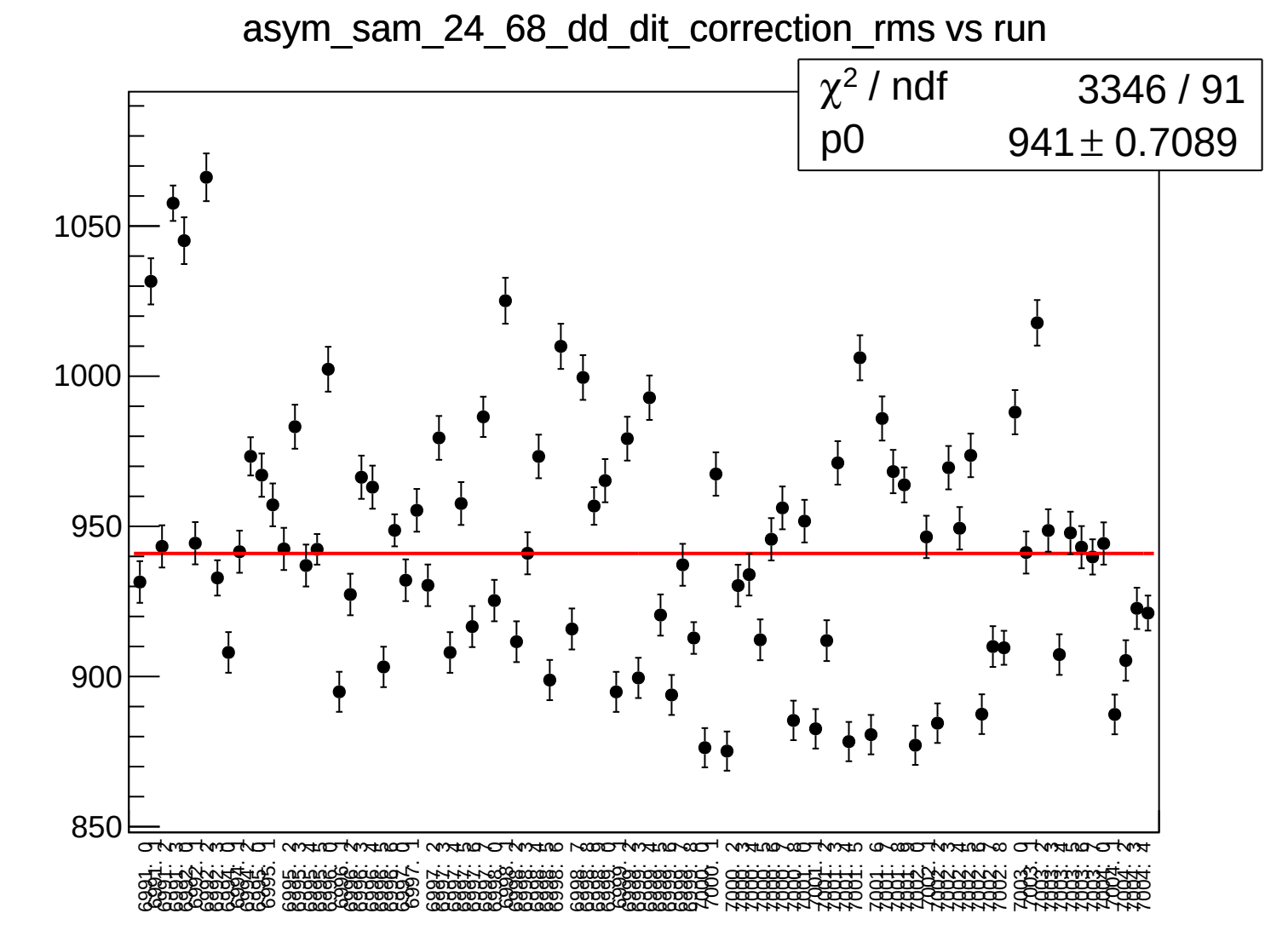

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 103 / 91
p0 38.7 ± 91.25
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −260.5
Std Dev 0
2
1
0
−1
−2
−3

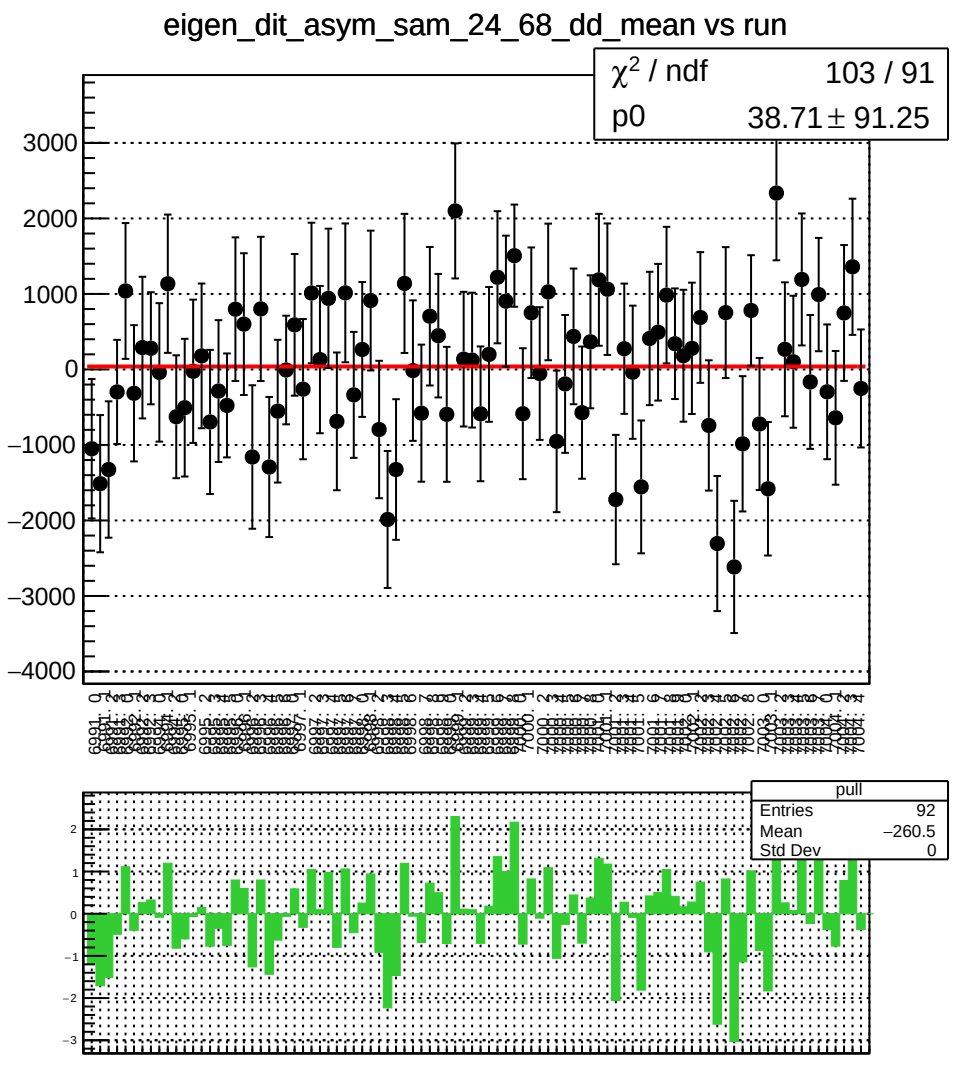

pull1D
Entries 92
Mean −0.0094
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

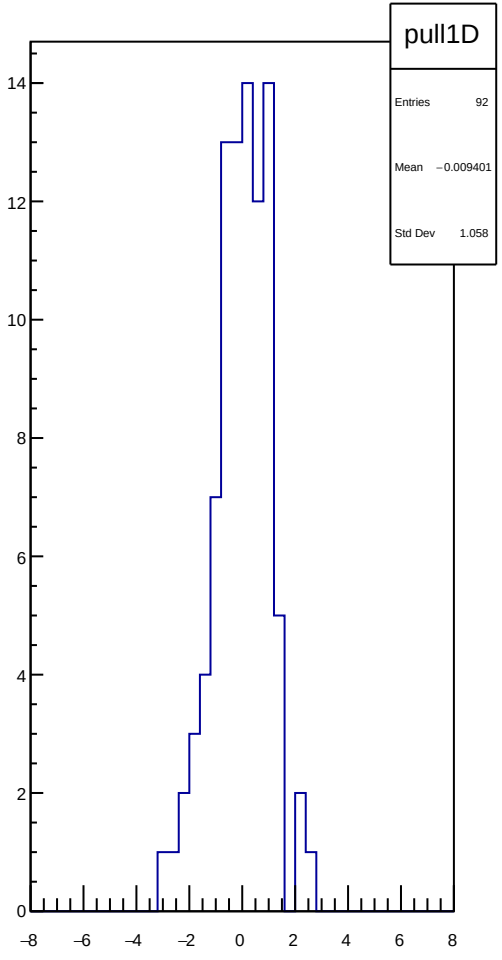

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1617 / 91
p0 85.69 ± 0.06453
94
92
90
88
86
84
82
80

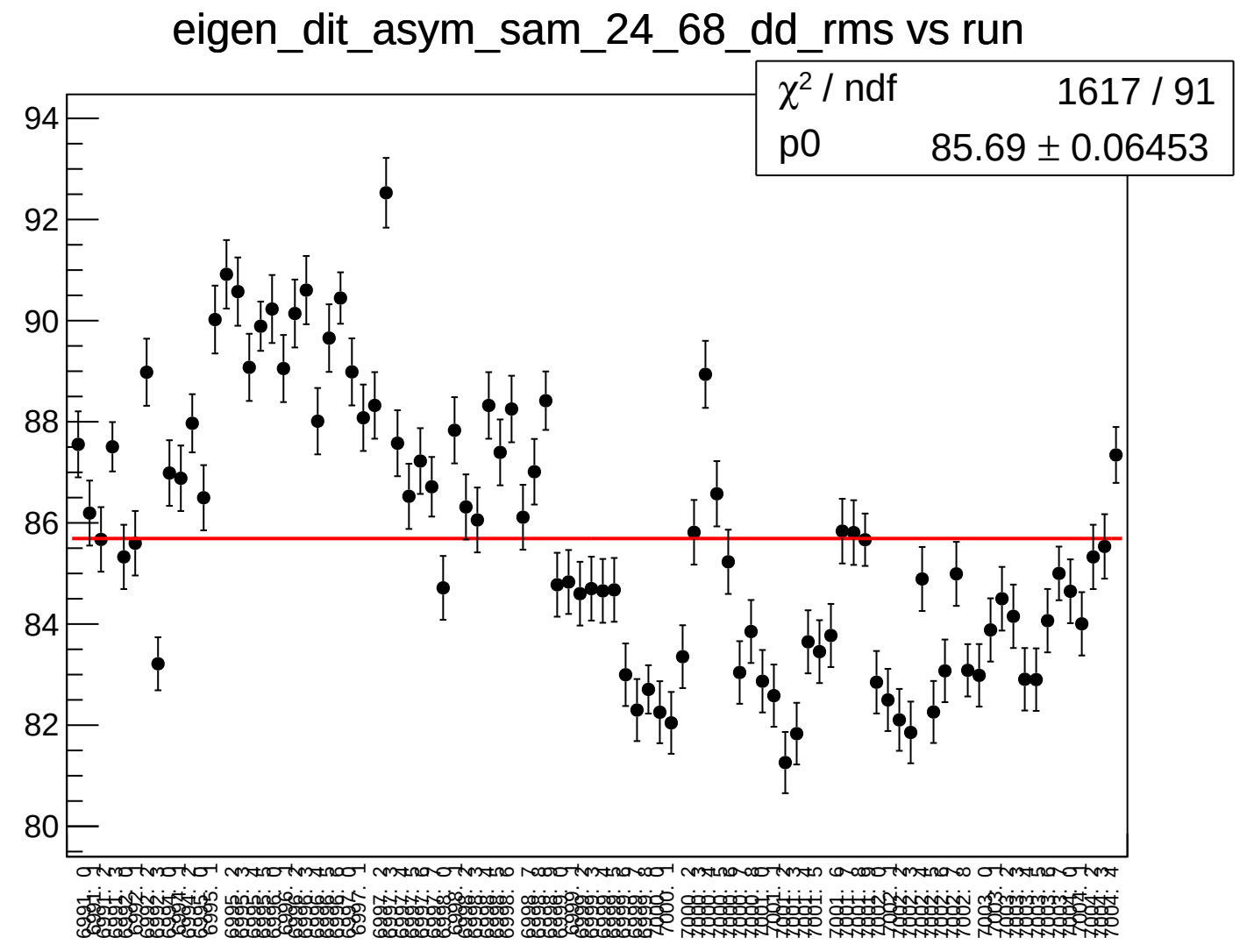

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 80.19 / 91
p0 −1166 ± 1003
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −815.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

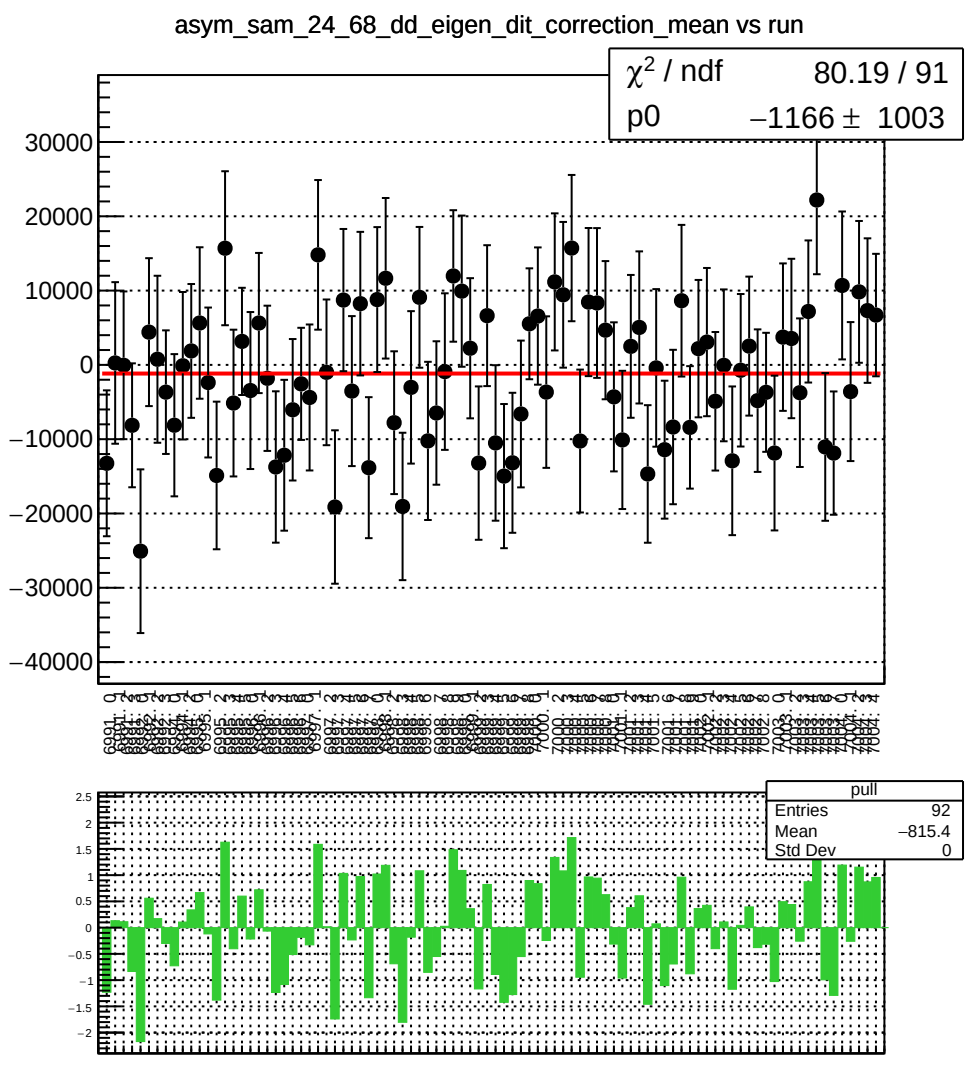

pull1D
Entries 92
Mean −0.004227
Std Dev 0.9336
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

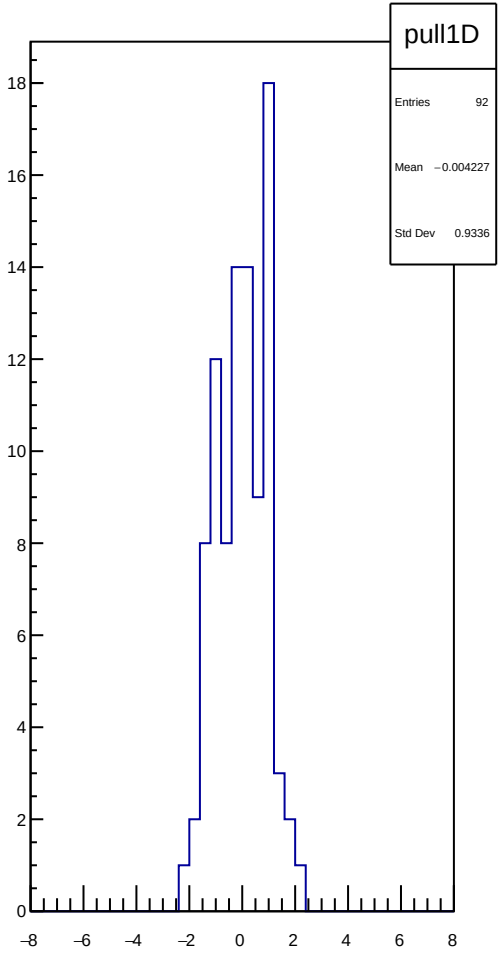

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3346 / 91
p0 941 ± 0.7089
1050
1000
950
900
850

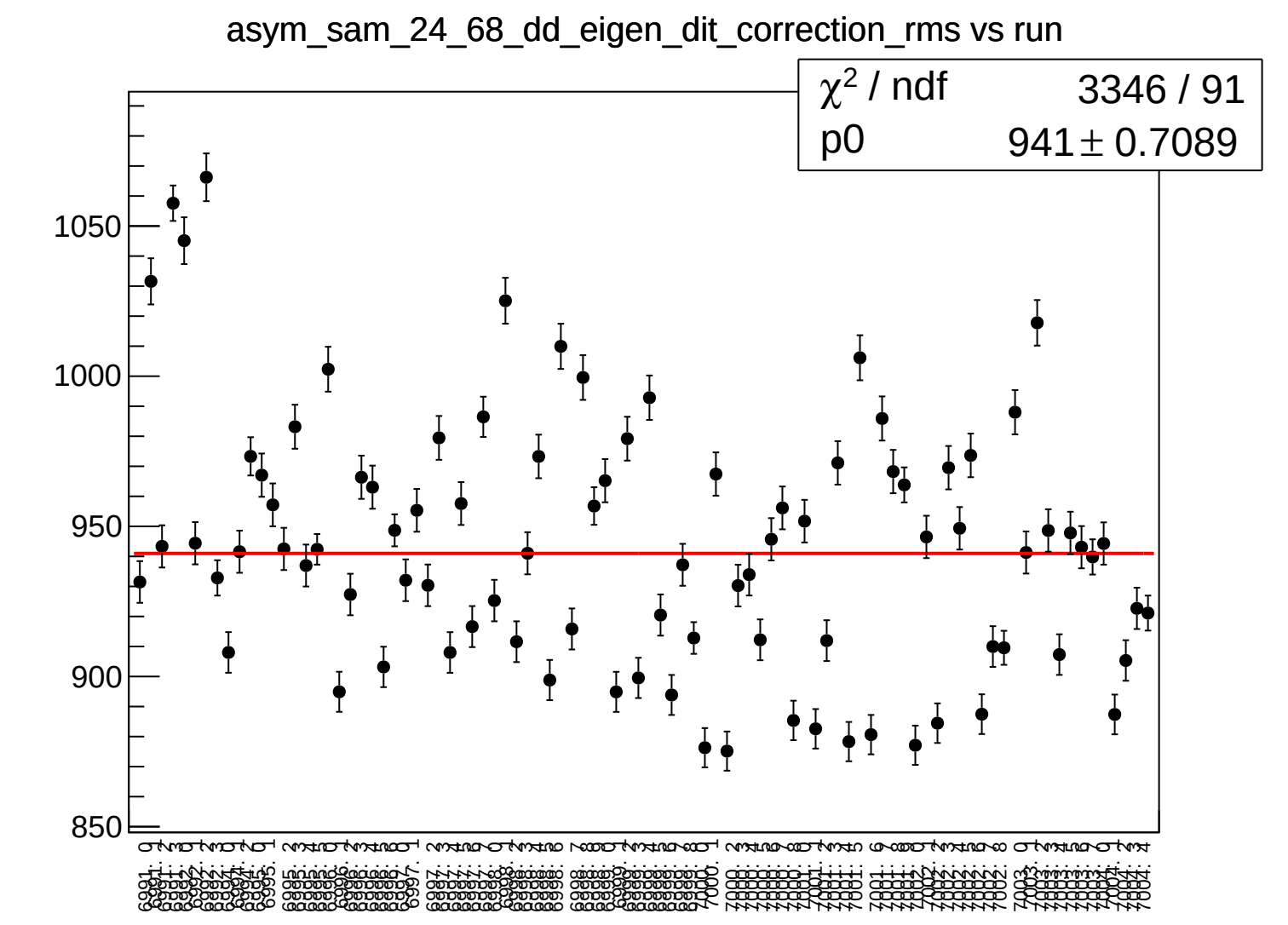

eigen_dit_asym_sam_24_68_dd_mean vs run
χ^2 / ndf 103 / 91
p0 38.71 ± 91.25
pull
Entries 92
Mean −260.5
Std Dev 0

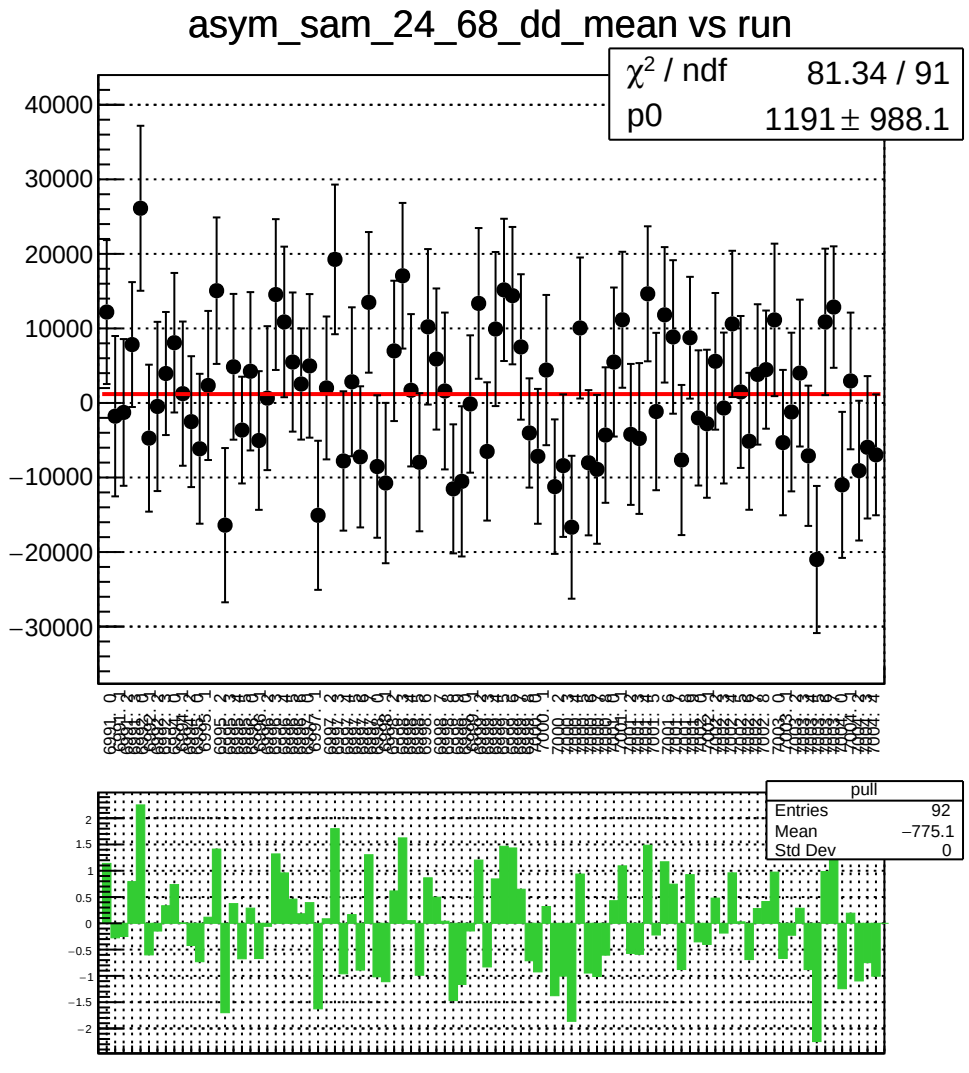

pull1D
Entries 92
Mean −0.009401
Std Dev 1.058

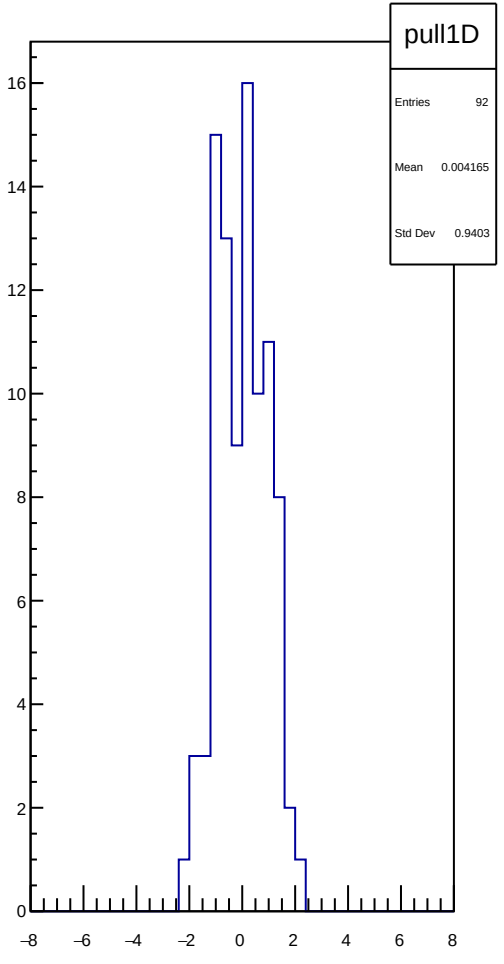

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1617 / 91
p0 85.69 ± 0.06453
94
92
90
88
86
84
82
80

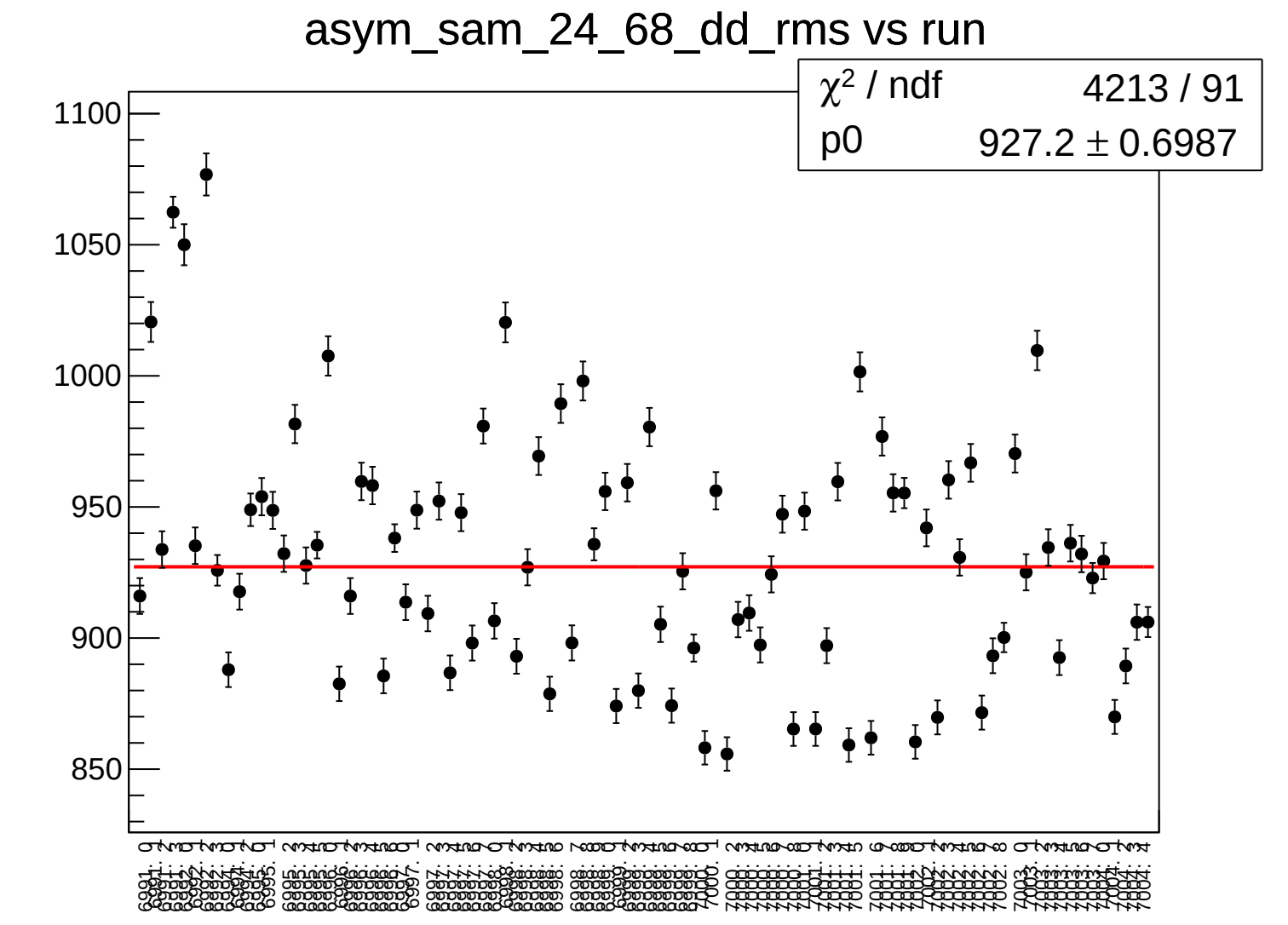

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.19 / 91
p0 −1166 ± 1003
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −815.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

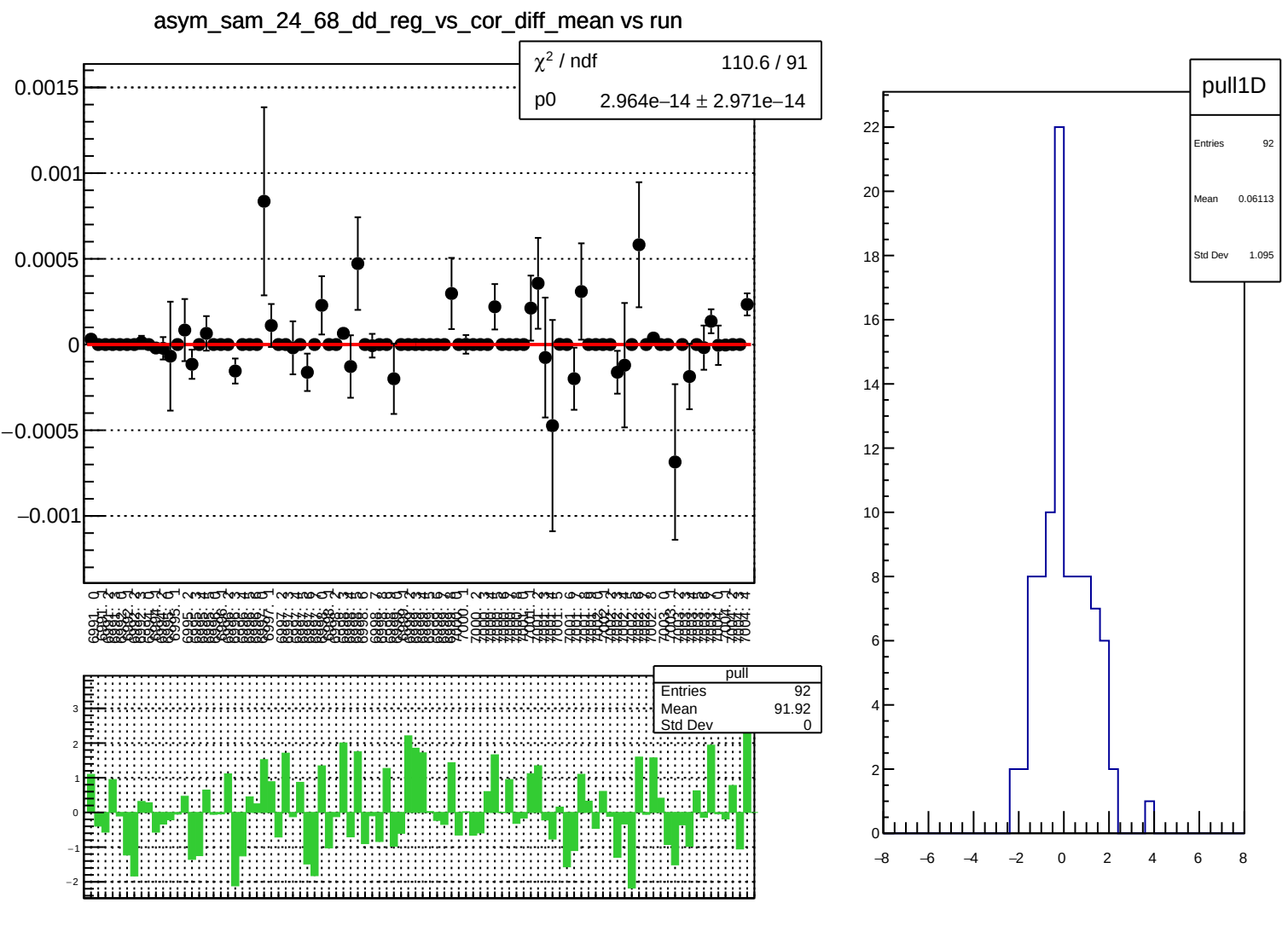

pull1D
Entries 92
Mean −0.004227
Std Dev 0.9336
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

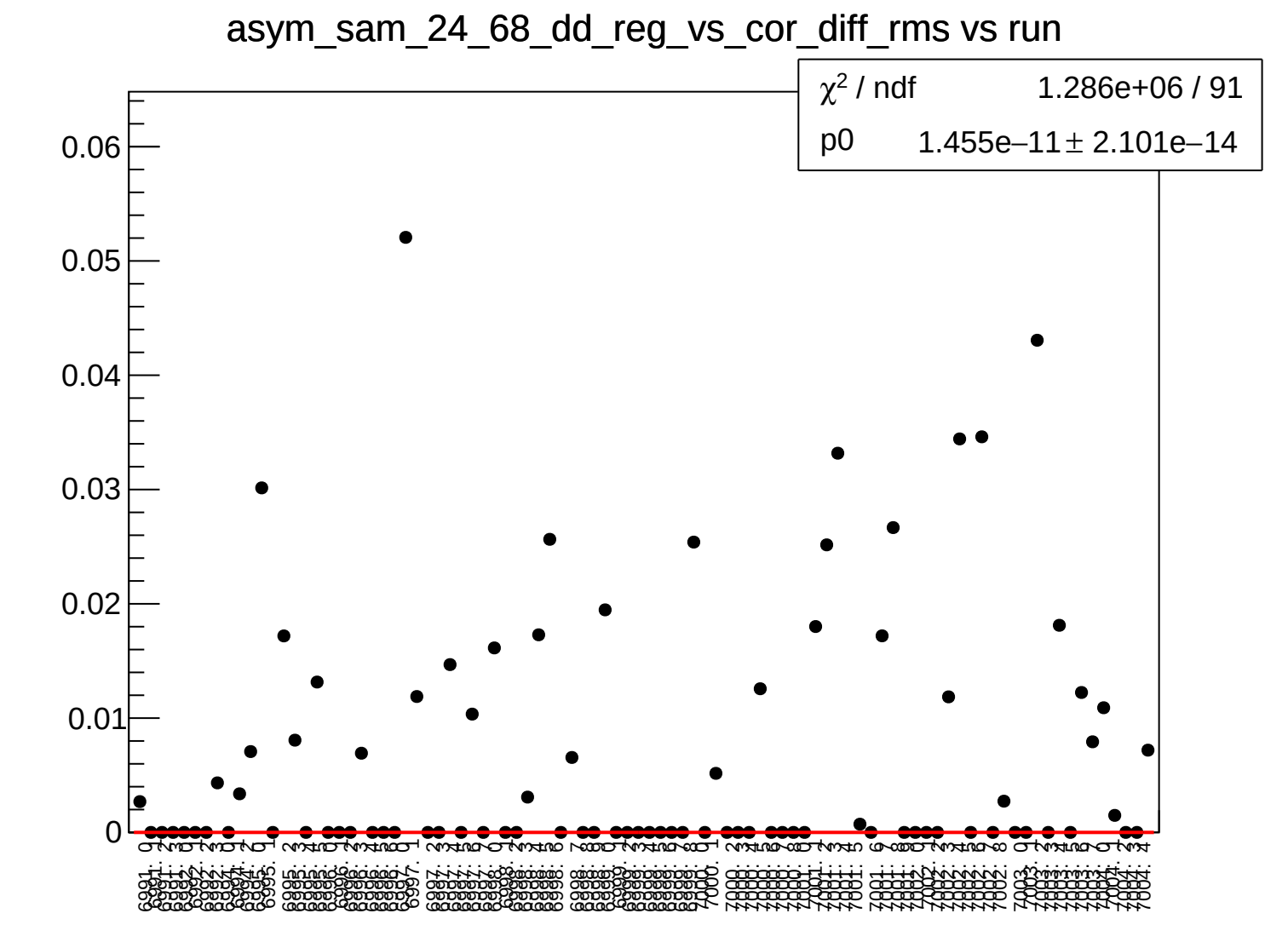

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3346 / 91
p0 941 ± 0.7089
1050
1000
950
900
850

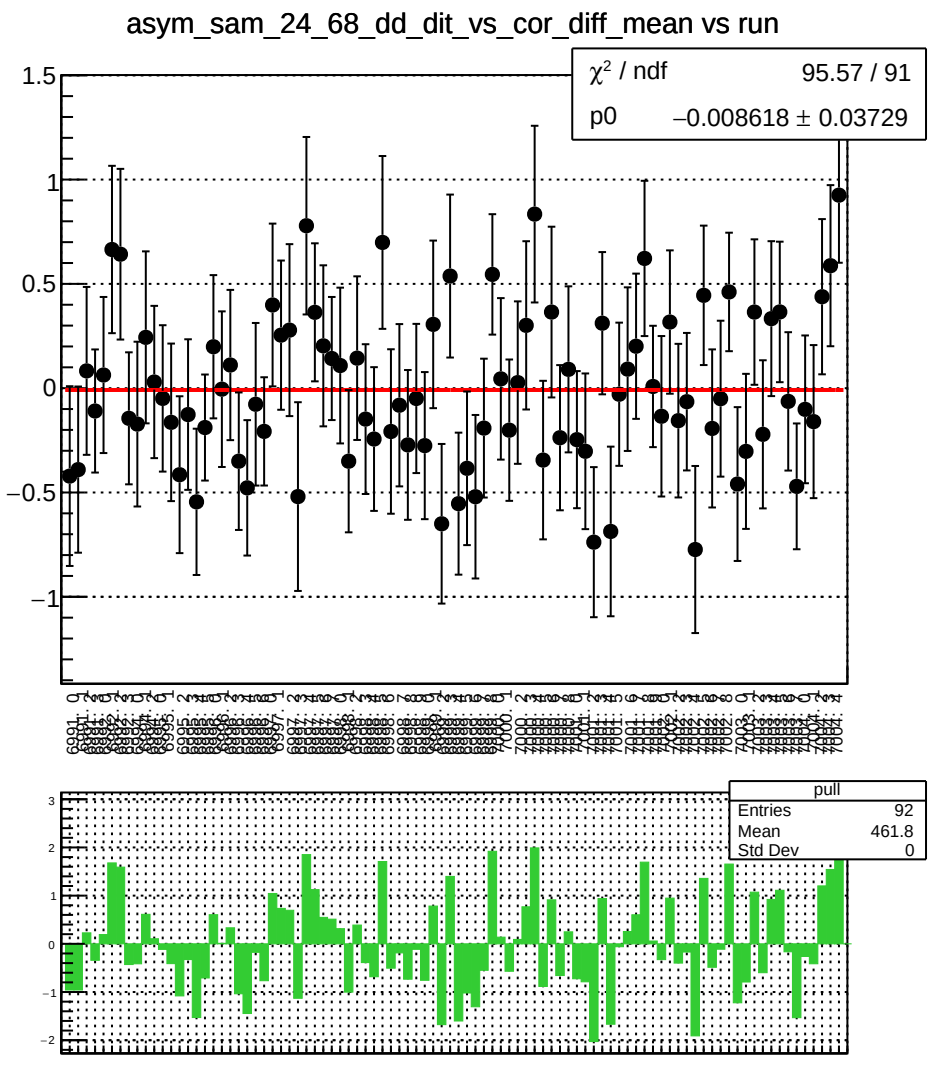

asym_sam_24_68_dd_mean vs run
χ² / ndf 81.34 / 91
p0 1191 ± 988.1
pull
Entries 92
Mean −775.1
Std Dev 0

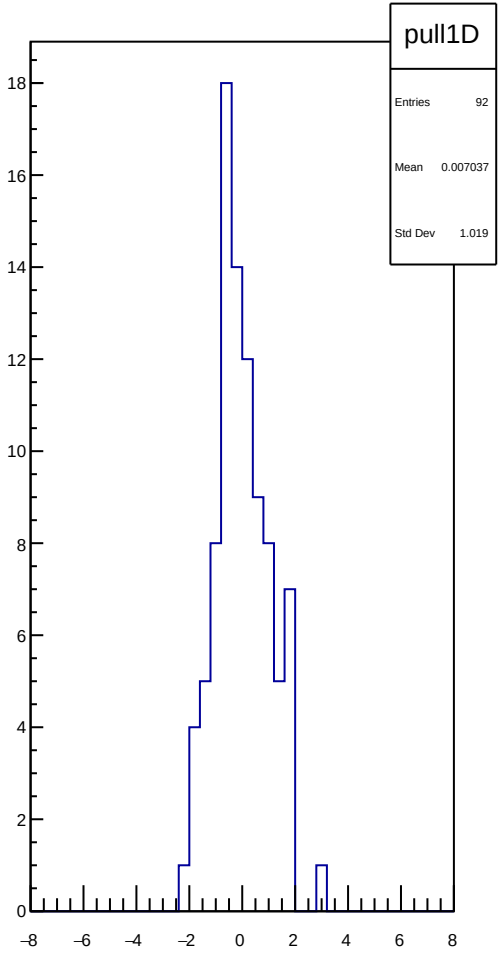

pull1D
Entries 92
Mean 0.004165
Std Dev 0.9403

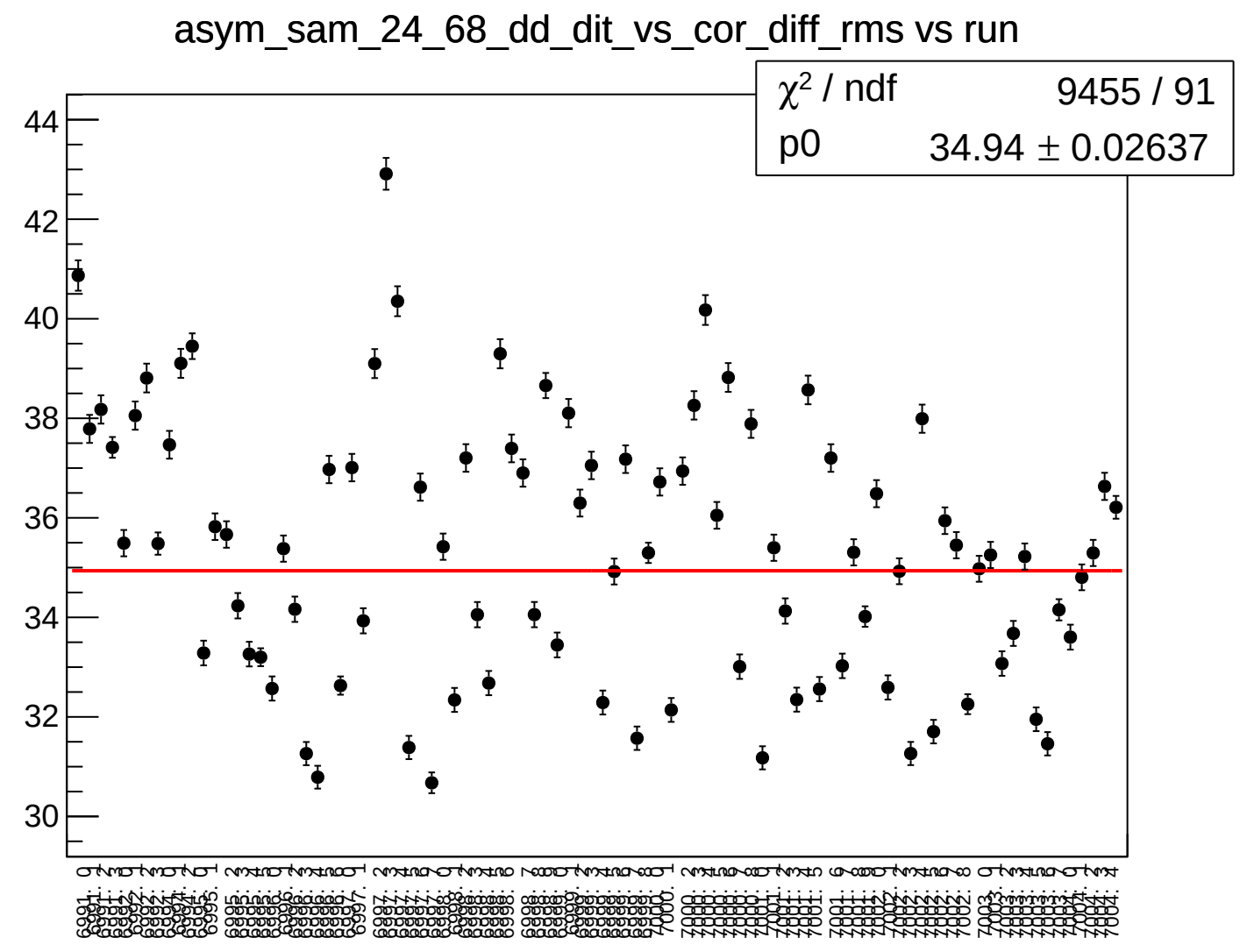

asym_sam_24_68_dd_rms vs run
χ² / ndf 4213 / 91
p0 927.2 ± 0.6987
1100
1050
1000
950
900
850

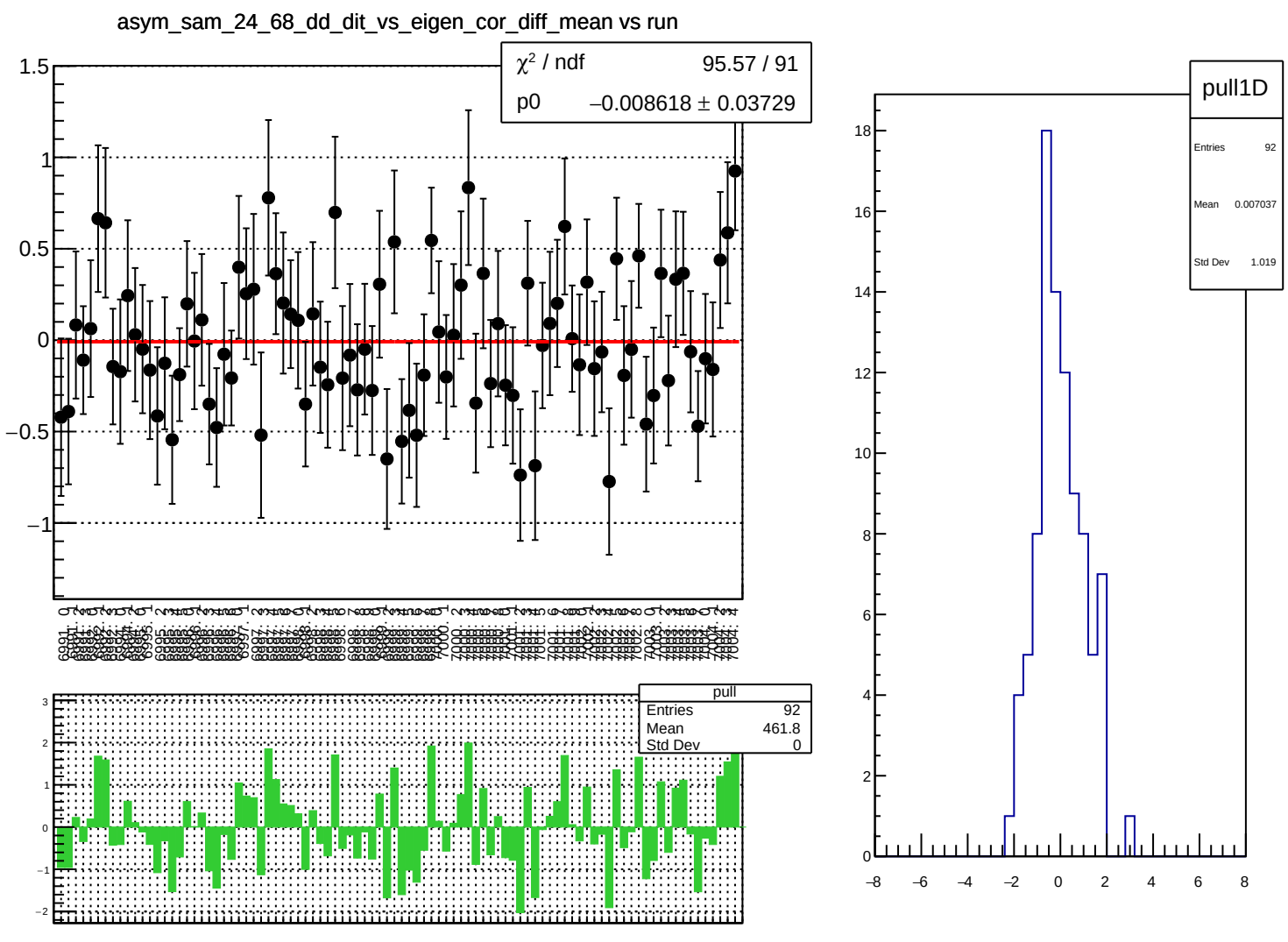

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 91
p0 2.964e−14 ± 2.971e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 91.92
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.06113
Std Dev 1.095
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

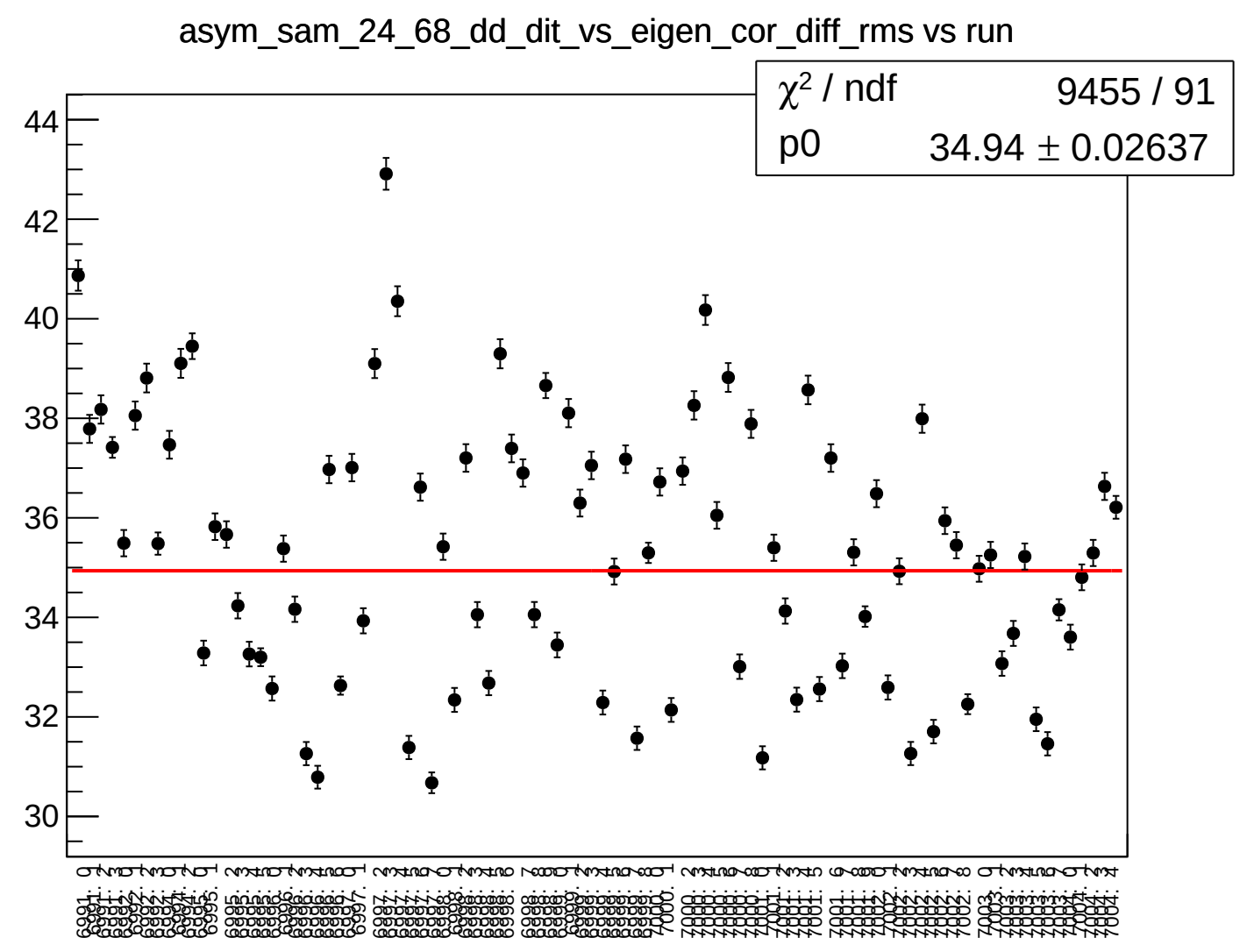

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.286e+06 / 91
p0 1.455e−11 ± 2.101e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

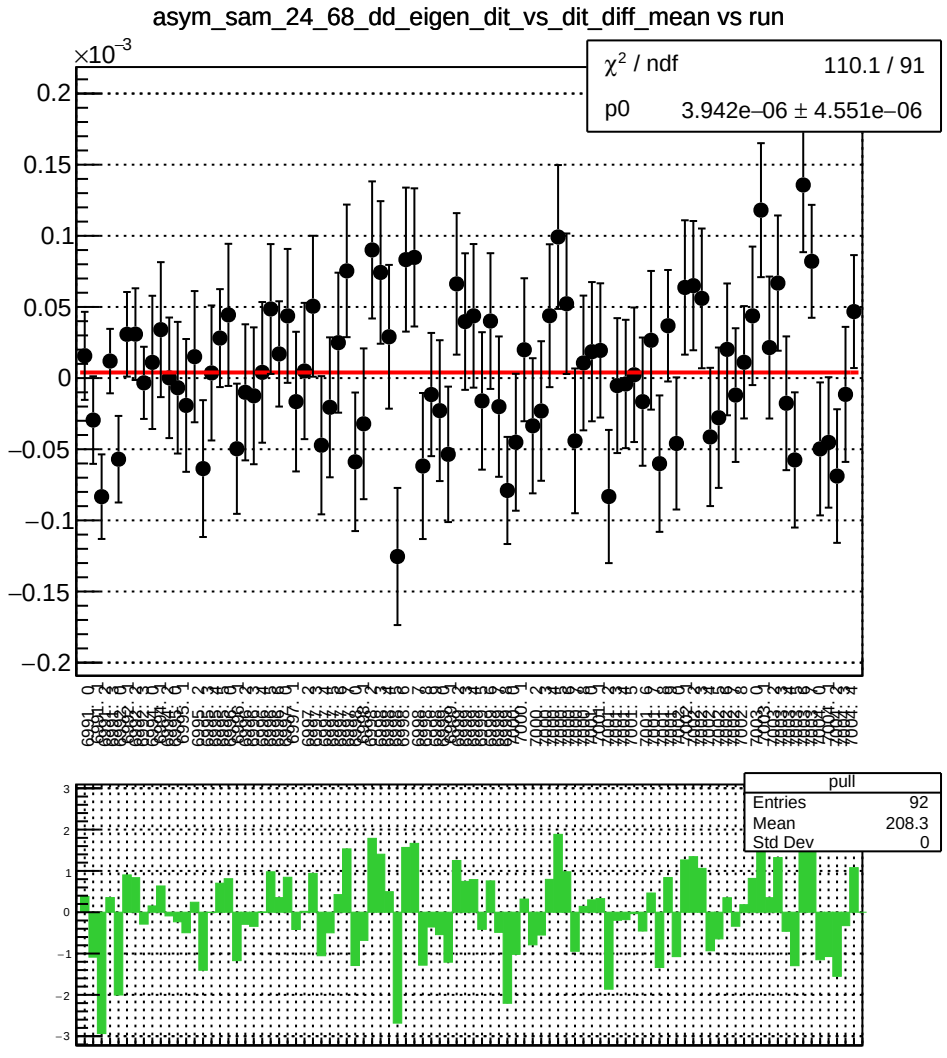

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.57 / 91
p0 −0.008618 ± 0.03729
pull
Entries 92
Mean 461.8
Std Dev 0

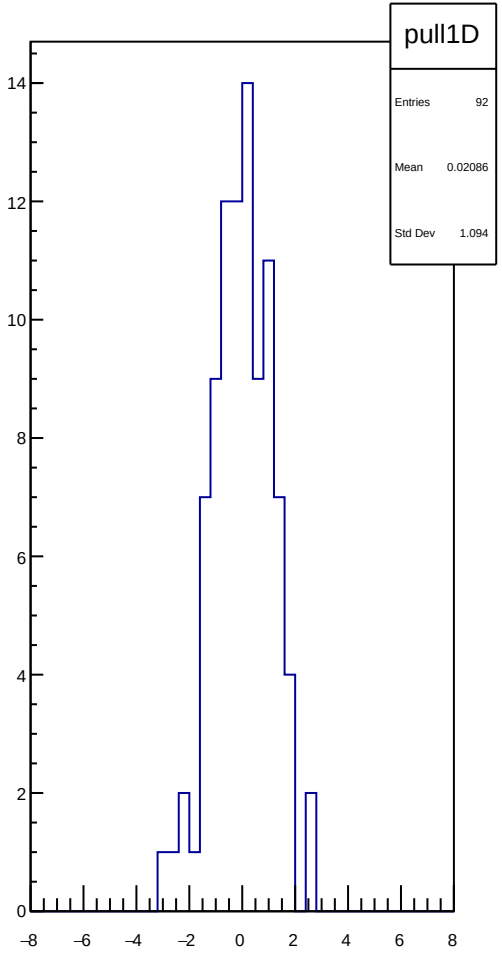

pull1D
Entries 92
Mean 0.007037
Std Dev 1.019

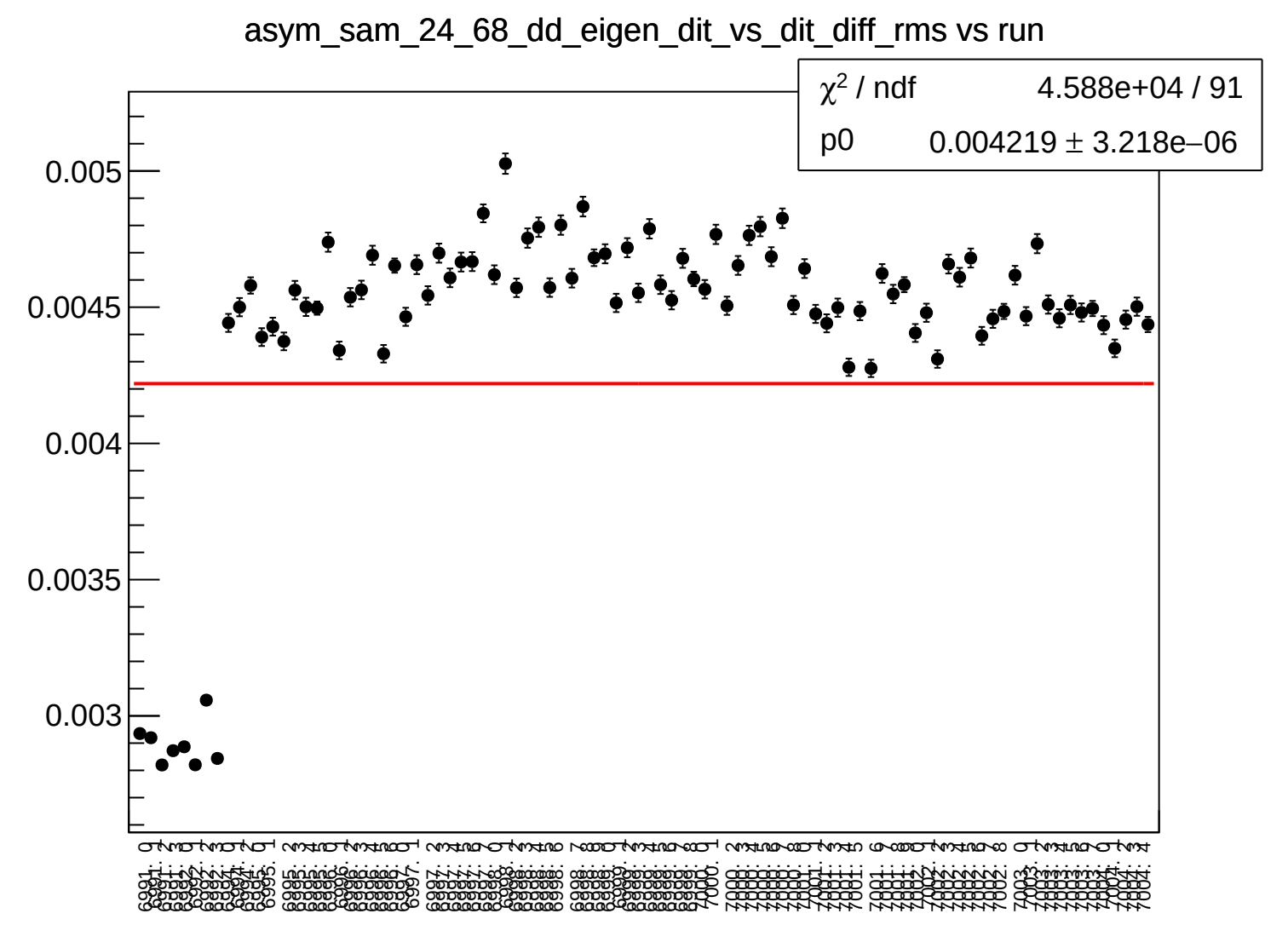

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9455 / 91
p0 34.94 ± 0.02637
44
42
40
38
36
34
32
30

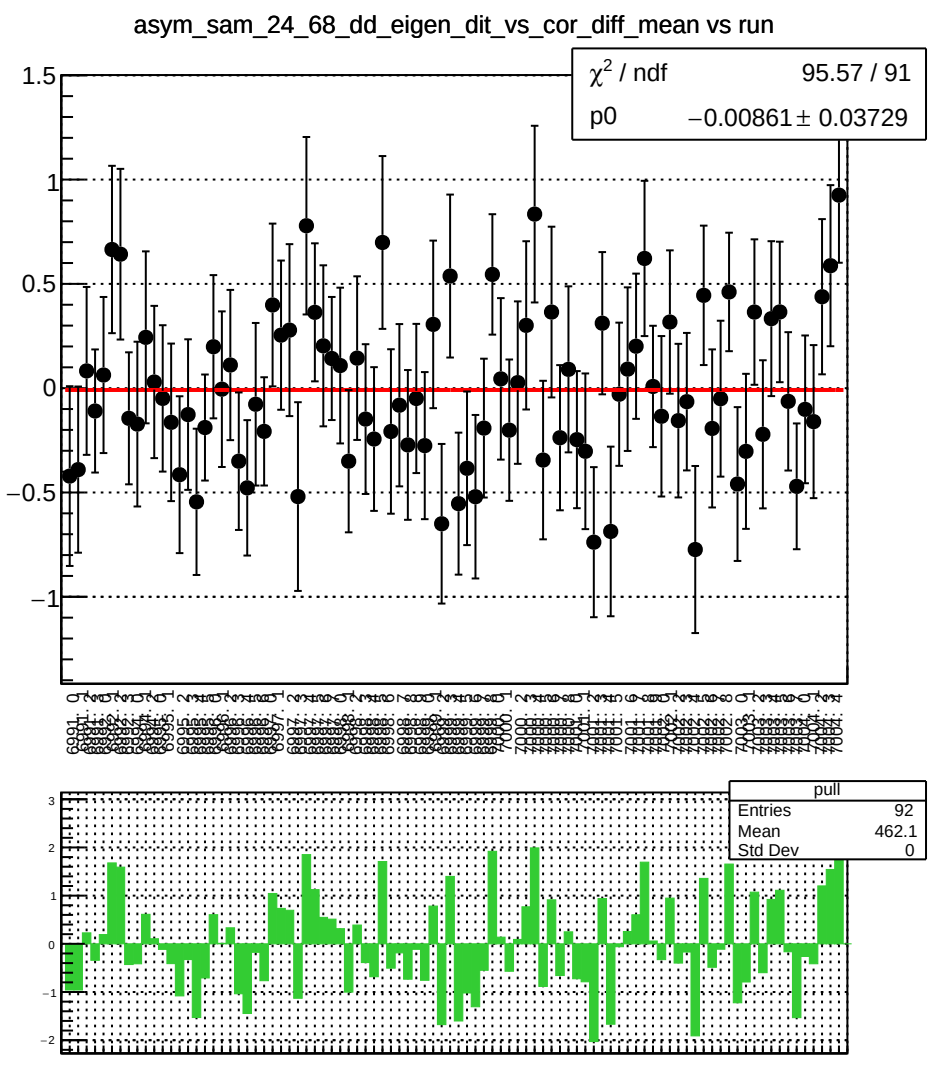

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.57 / 91
p0 −0.008618 ± 0.03729
pull
Entries 92
Mean 461.8
Std Dev 0
pull1D
Entries 92
Mean 0.007037
Std Dev 1.019

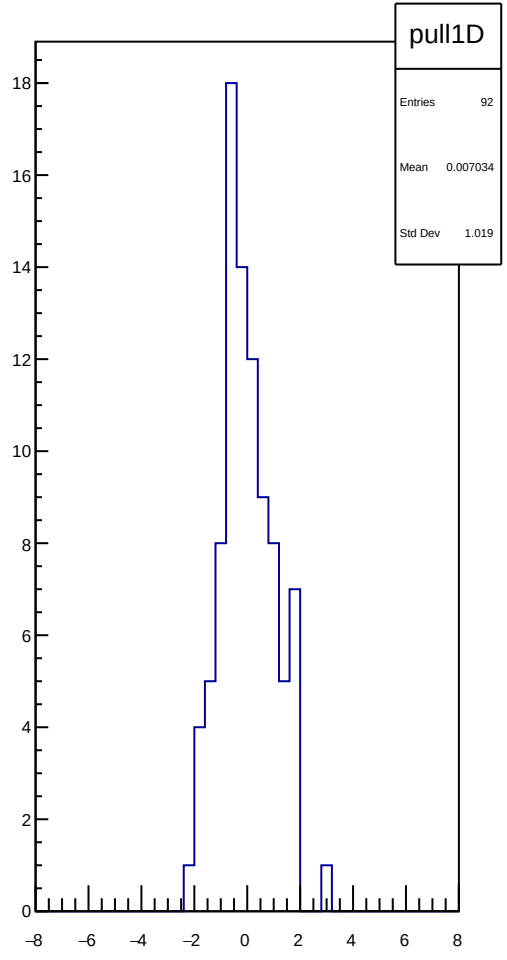

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9455 / 91
p0 34.94 ± 0.02637
44
42
40
38
36
34
32
30

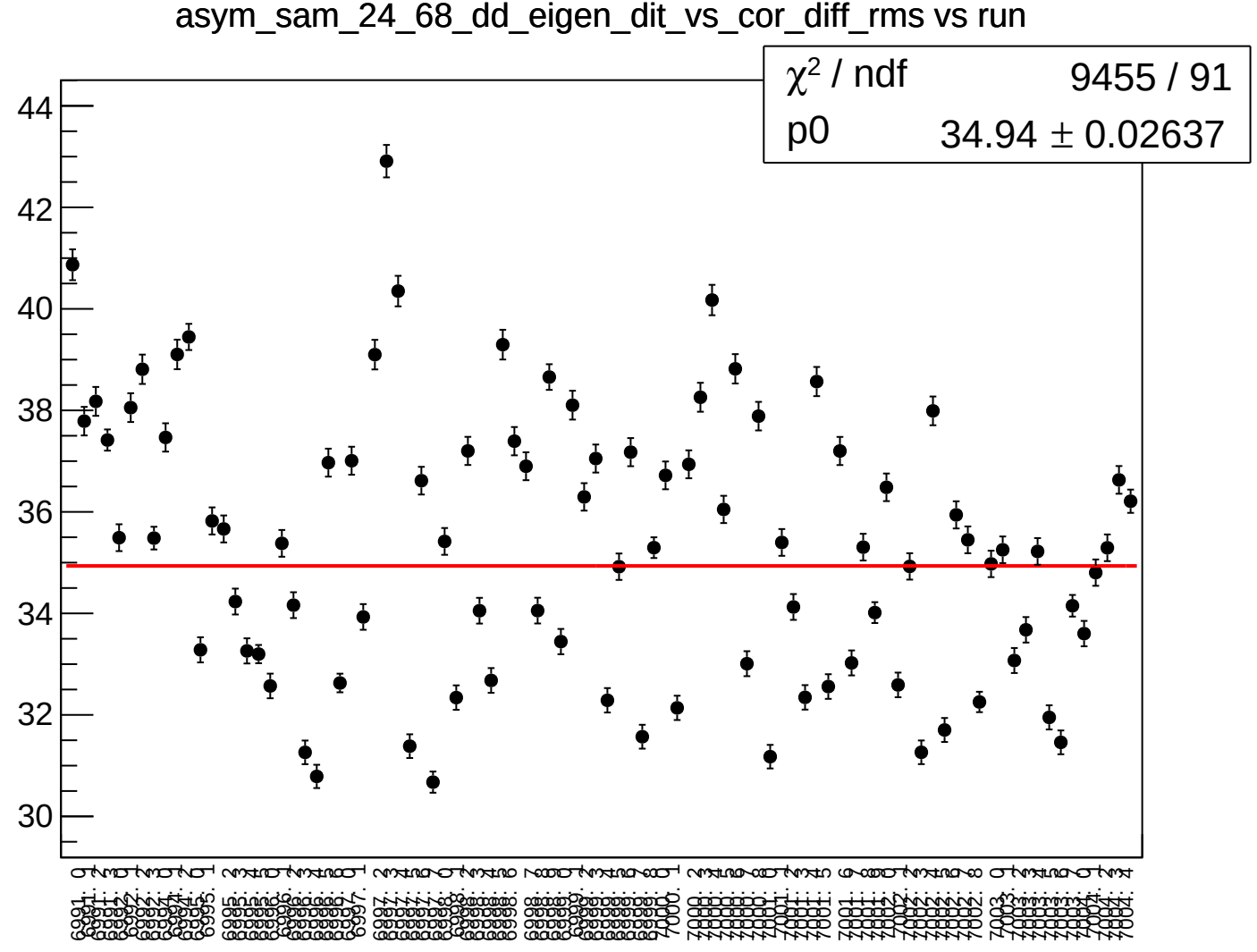

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 110.1 / 91
p0 3.942e−06 ± 4.551e−06
pull
Entries 92
Mean 208.3
Std Dev 0

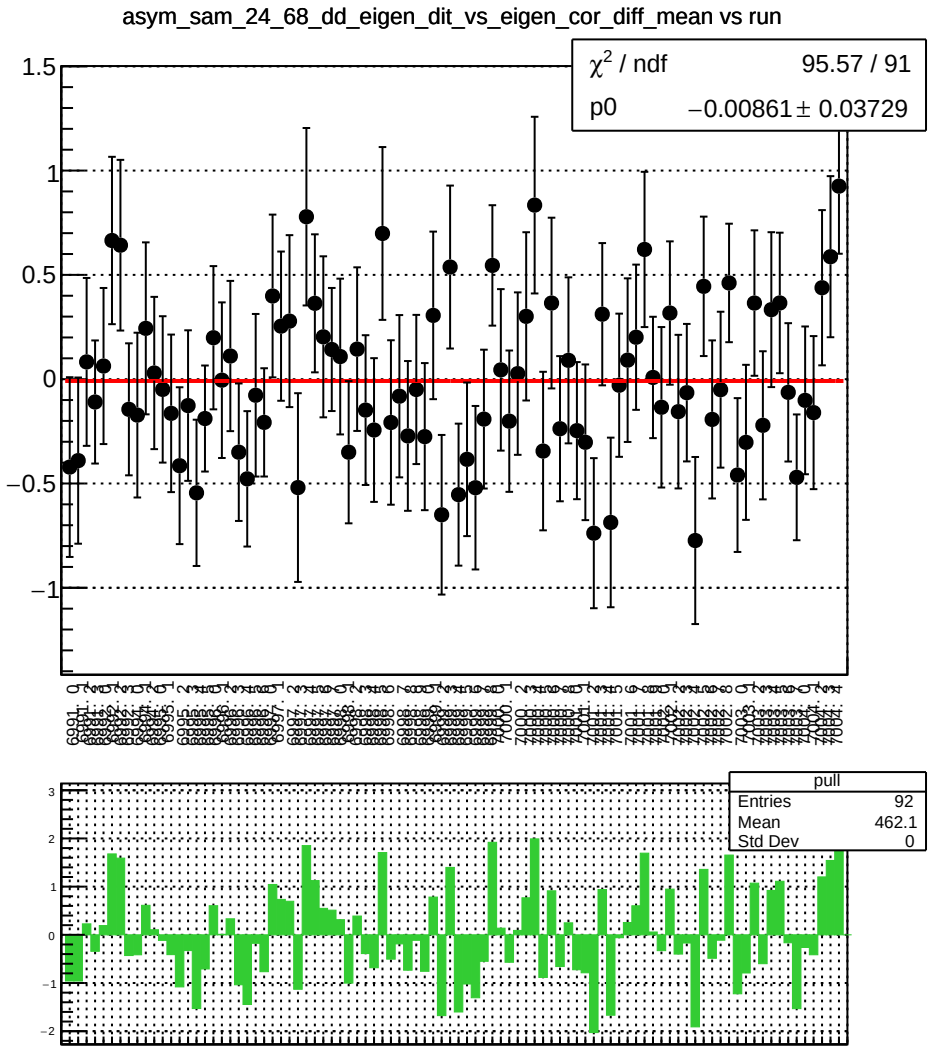

pull1D
Entries 92
Mean 0.02086
Std Dev 1.094

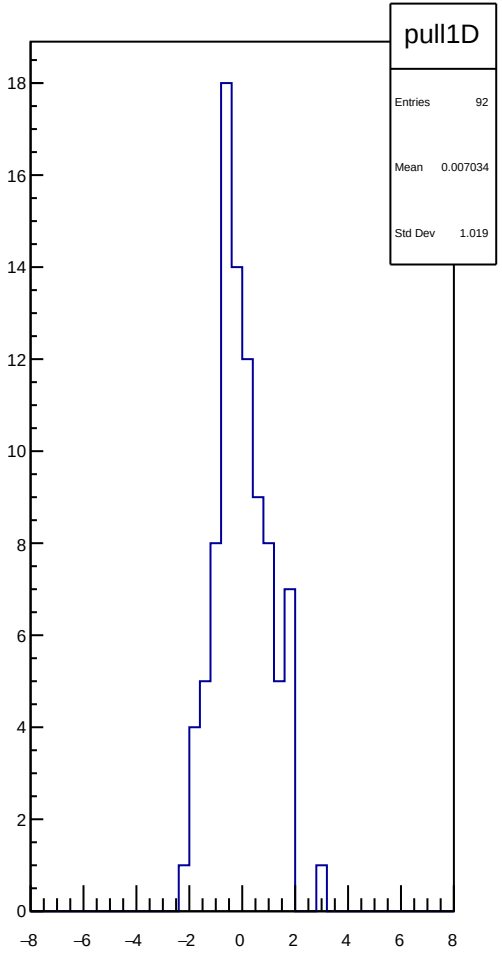

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.588e+04 / 91
p0 0.004219 ± 3.218e−06
0.005
0.0045
0.004
0.0035
0.003

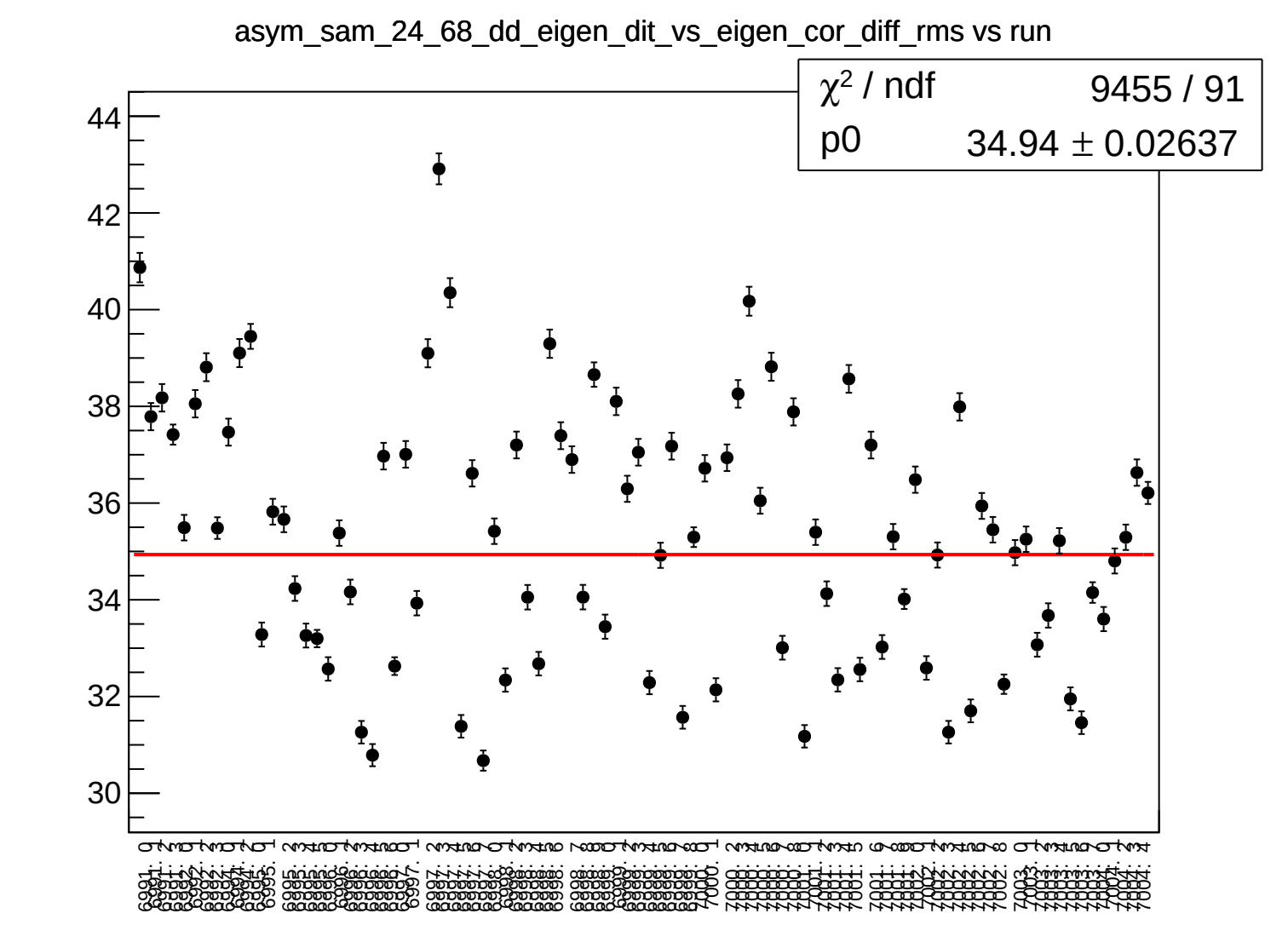

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.57 / 91
p0 −0.00861 ± 0.03729
pull
Entries 92
Mean 462.1
Std Dev 0

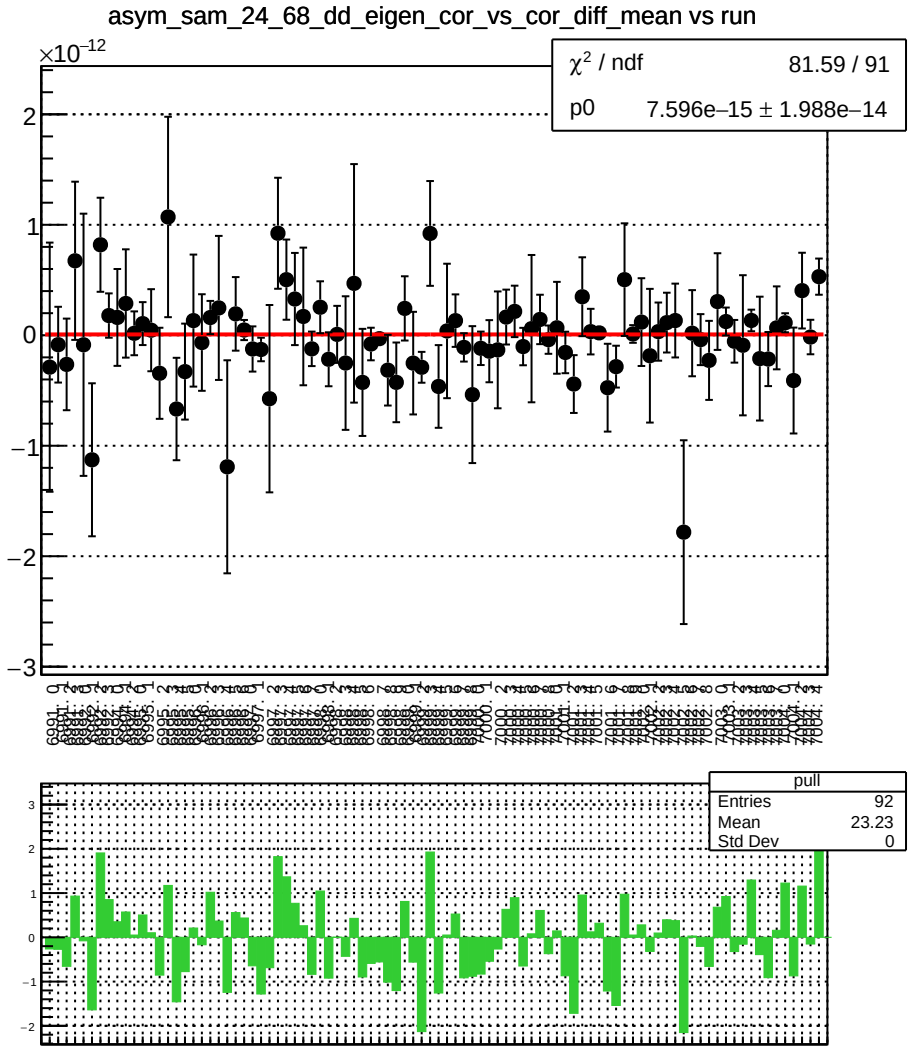

pull1D
Entries 92
Mean 0.007034
Std Dev 1.019

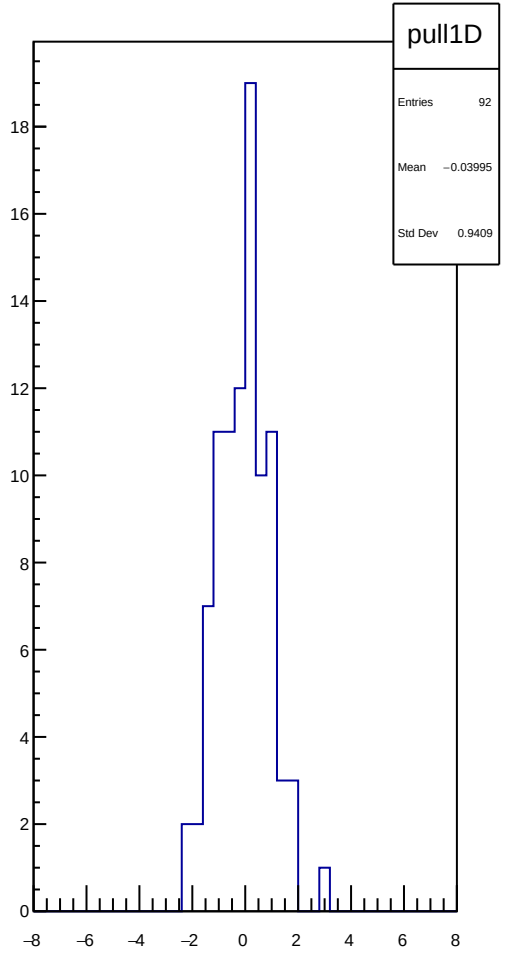

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9455 / 91
p0 34.94 ± 0.02637
44
42
40
38
36
34
32
30

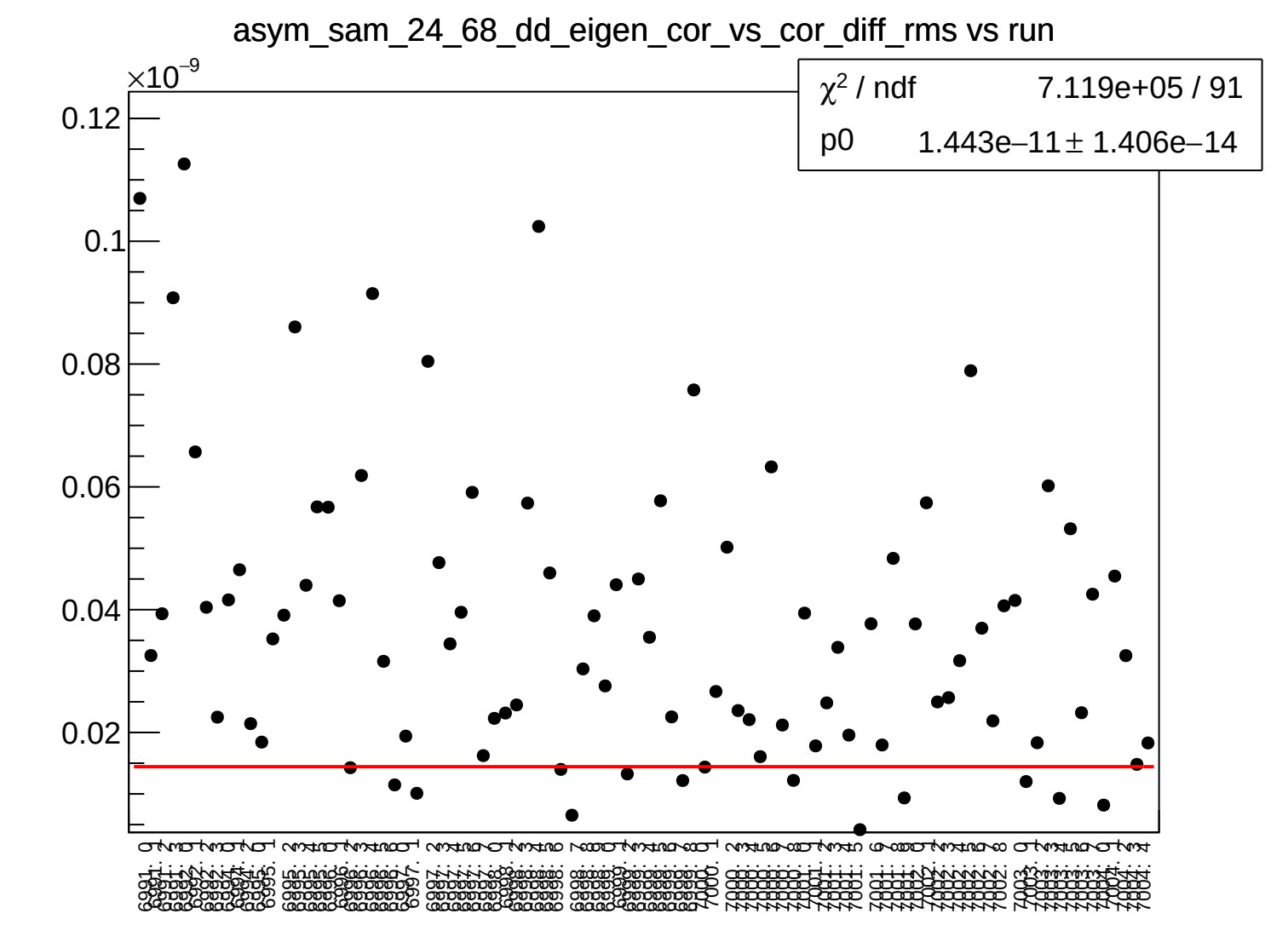

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.57 / 91
p0 −0.00861 ± 0.03729
pull
Entries 92
Mean 462.1
Std Dev 0

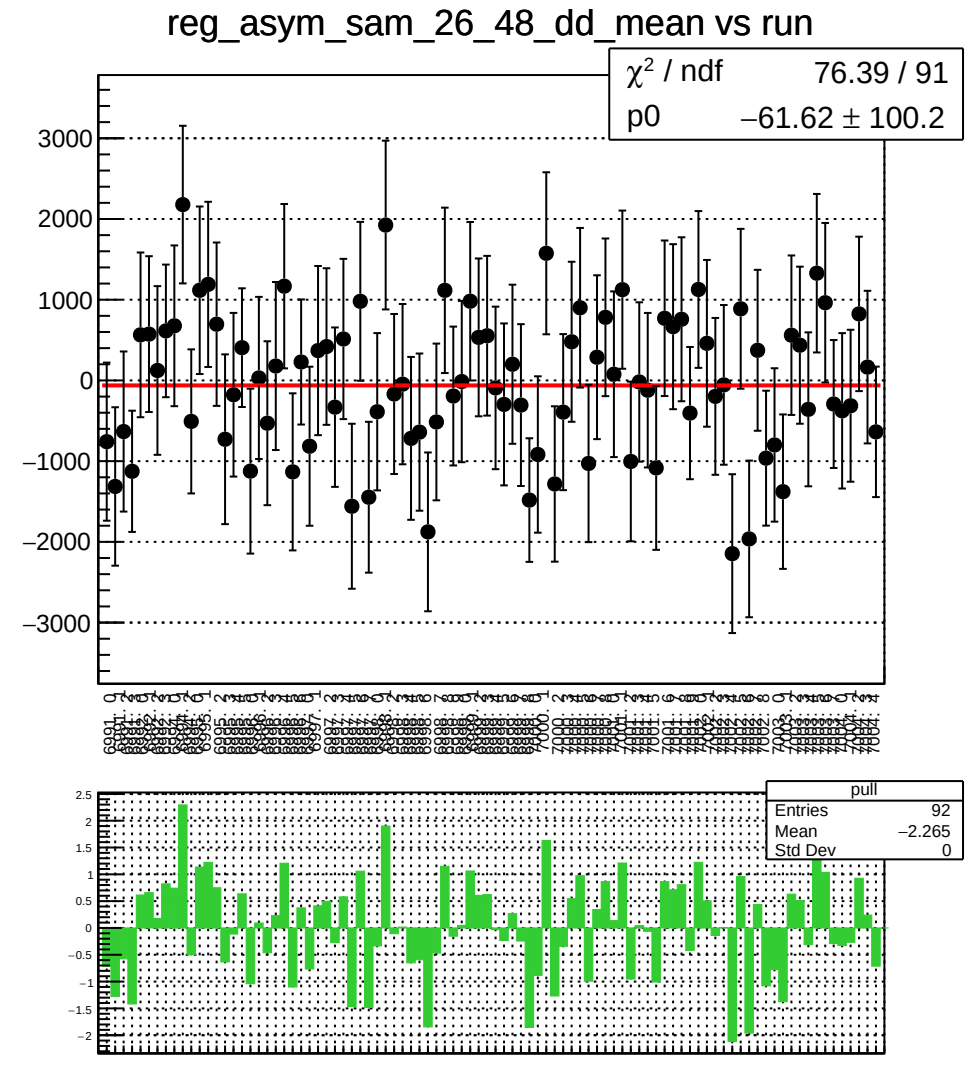

pull1D
Entries 92
Mean 0.007034
Std Dev 1.019

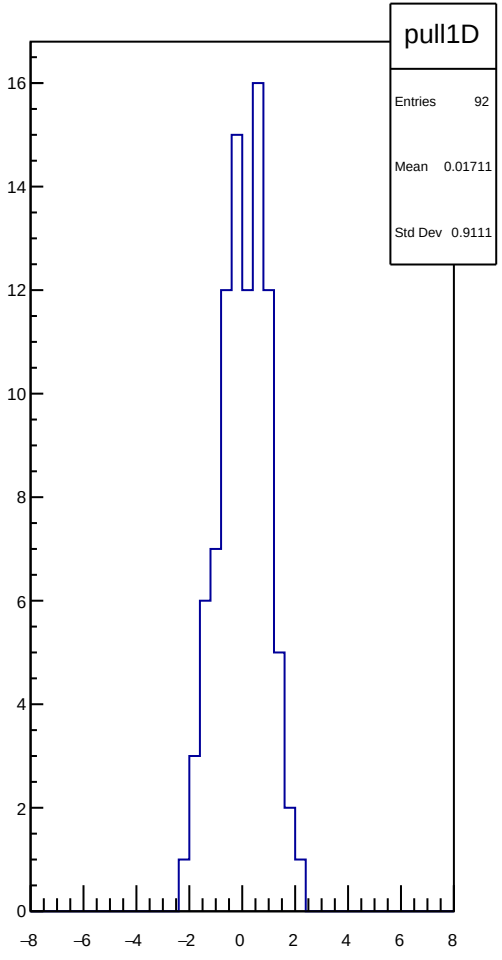

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9455 / 91
p0 34.94 ± 0.02637
44
42
40
38
36
34
32
30

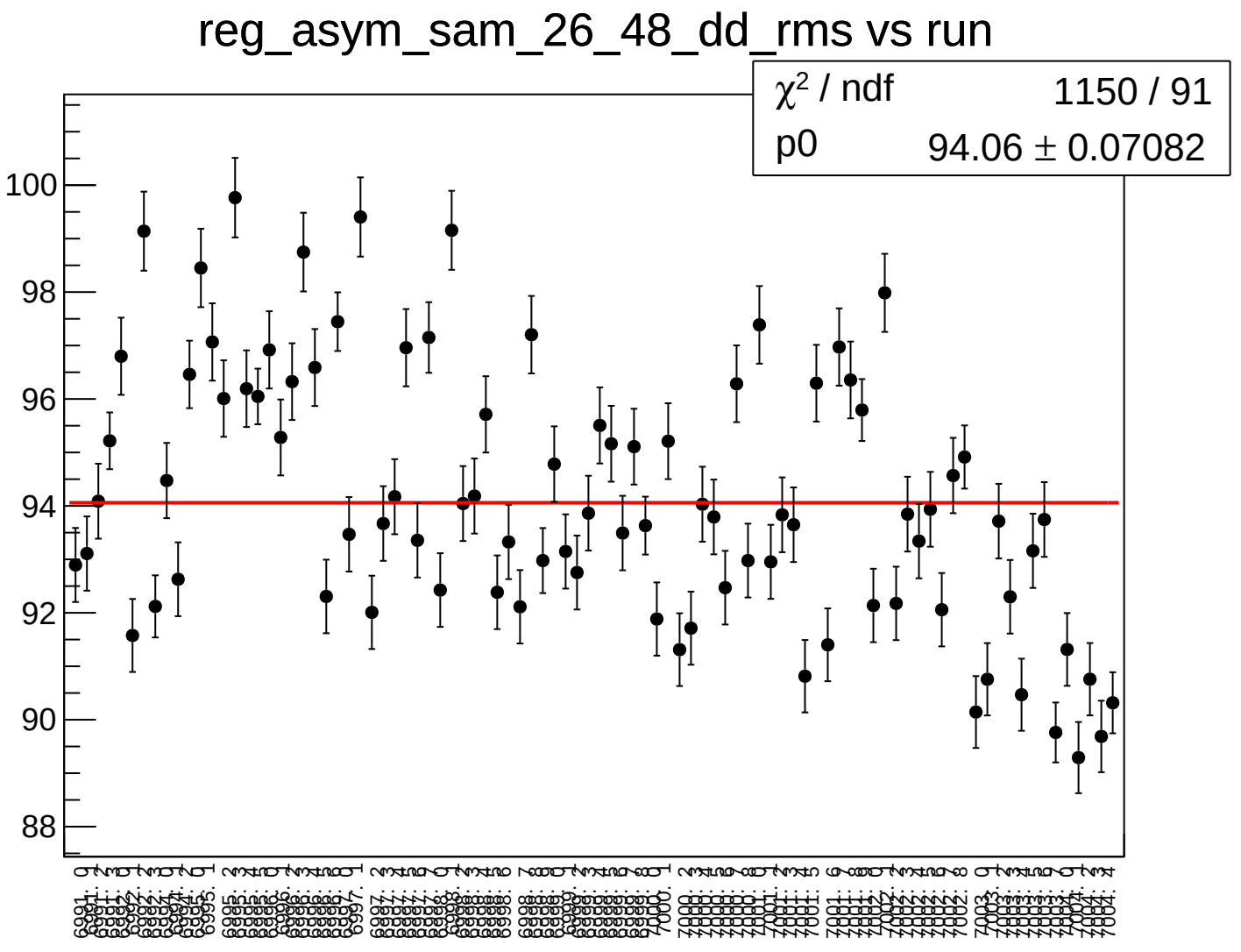

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.59 / 91
p0 7.596e−15 ± 1.988e−14
pull
Entries 92
Mean 23.23
Std Dev 0

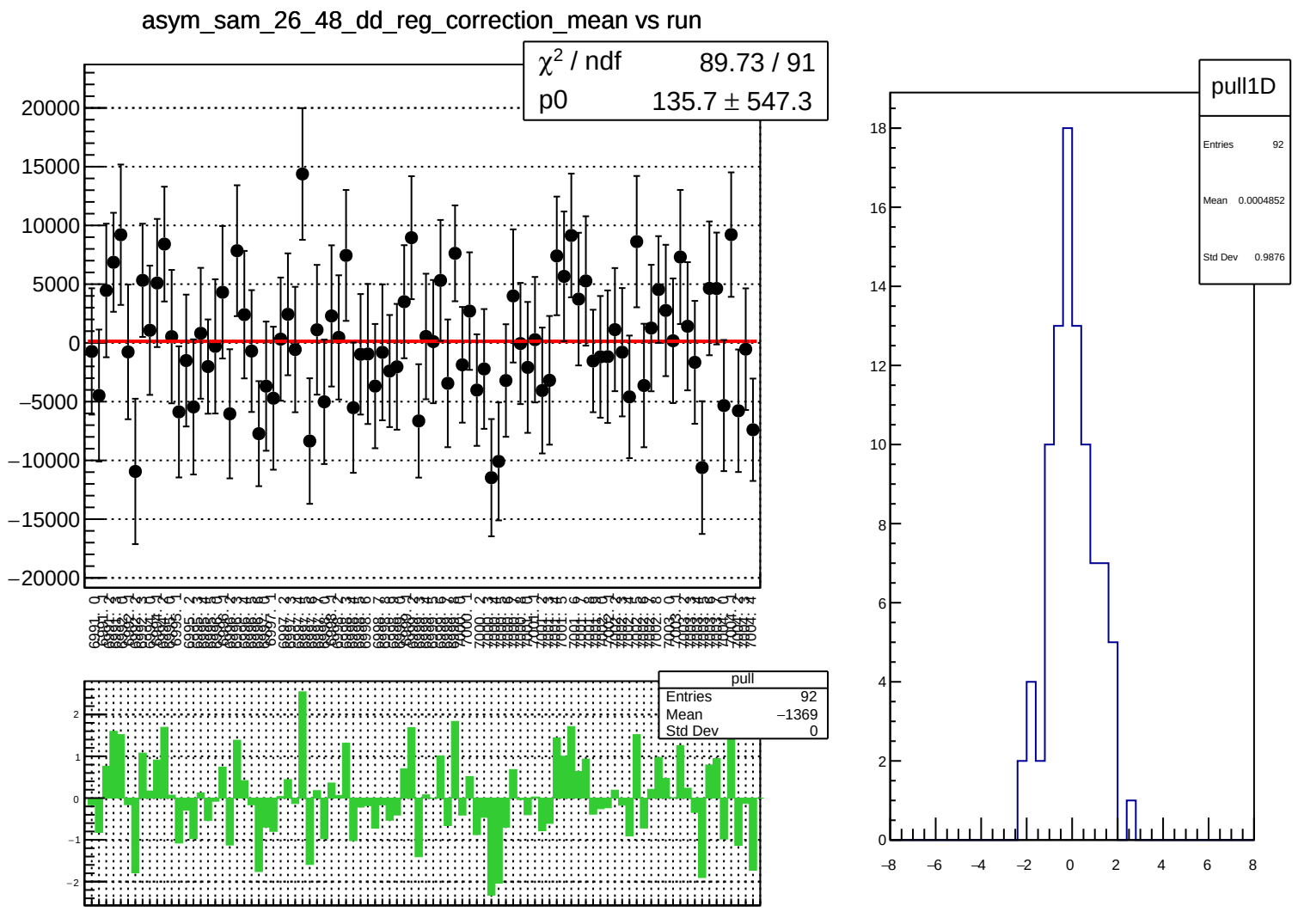

pull1D
Entries 92
Mean −0.03995
Std Dev 0.9409

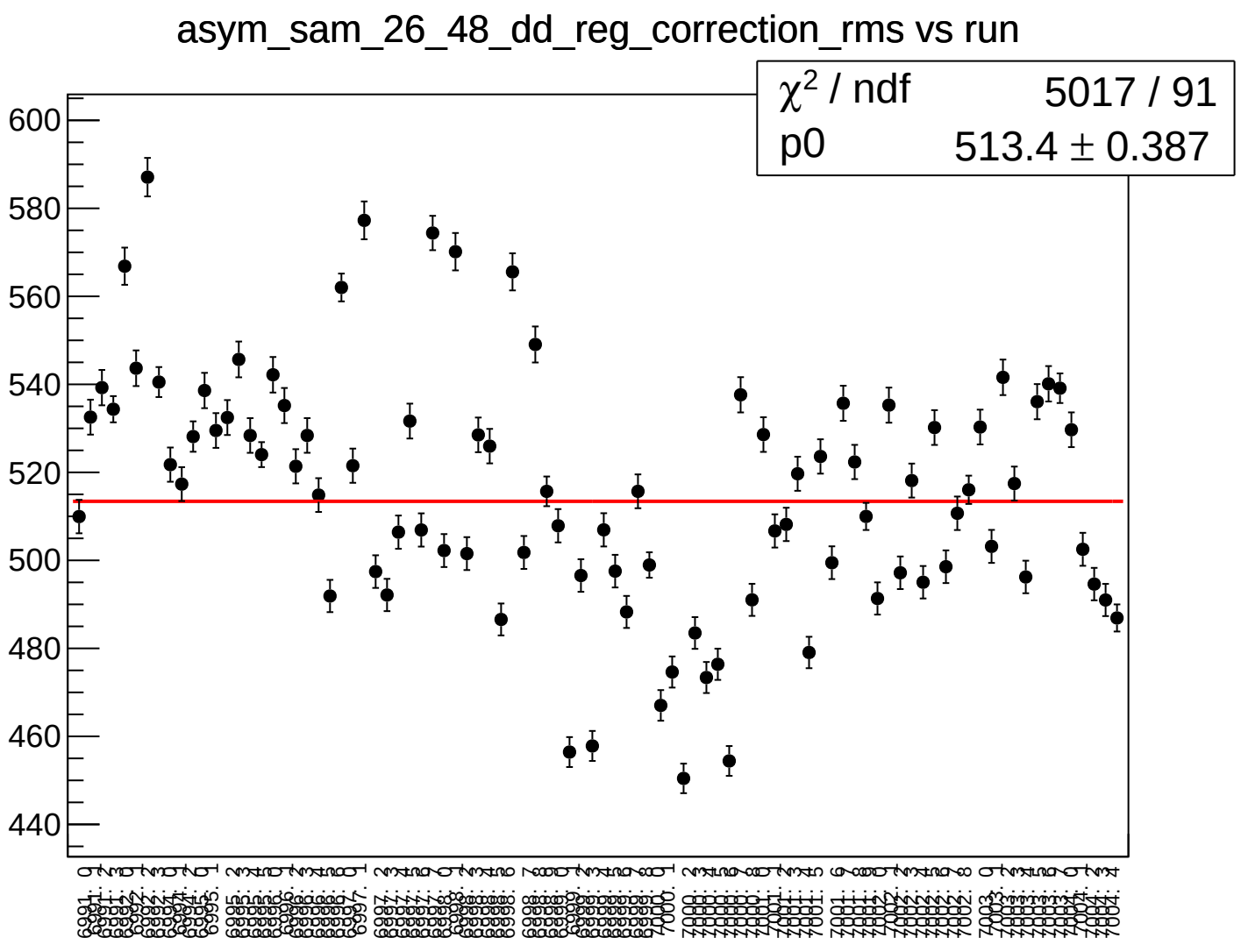

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.119e+05 / 91
p0 1.443e−11 ± 1.406e−14
0.12
0.1
0.08
0.06
0.04
0.02

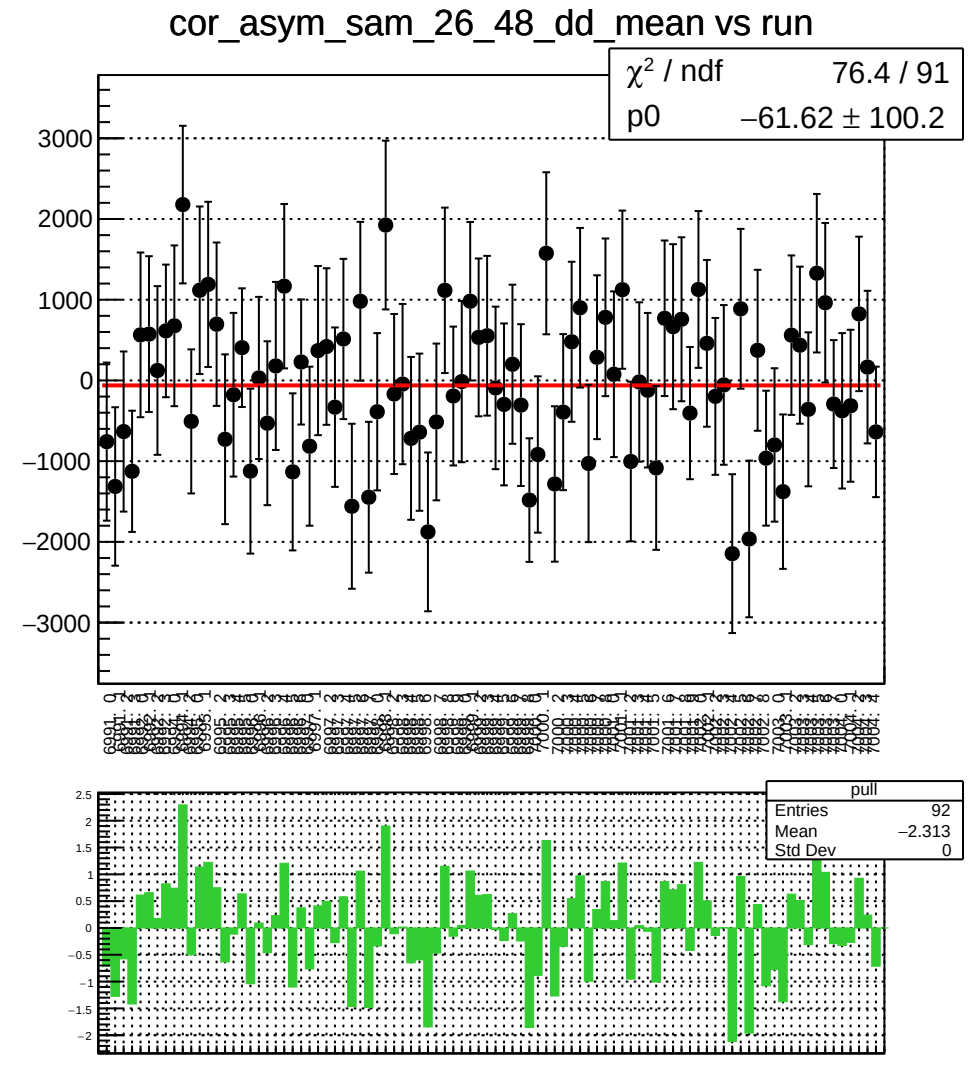

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 76.39 / 91
p0 −61.62 ± 100.2
pull
Entries 92
Mean −2.265
Std Dev 0

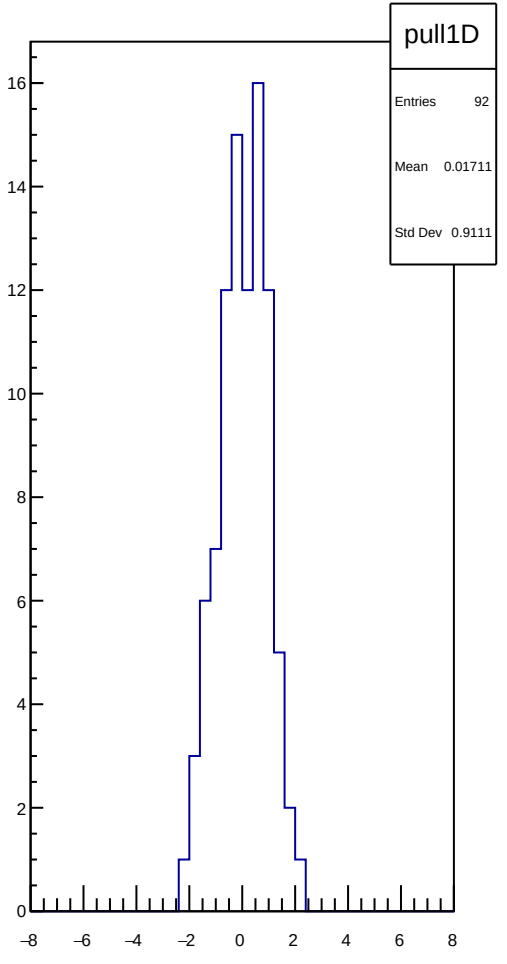

pull1D
Entries 92
Mean 0.01711
Std Dev 0.9111

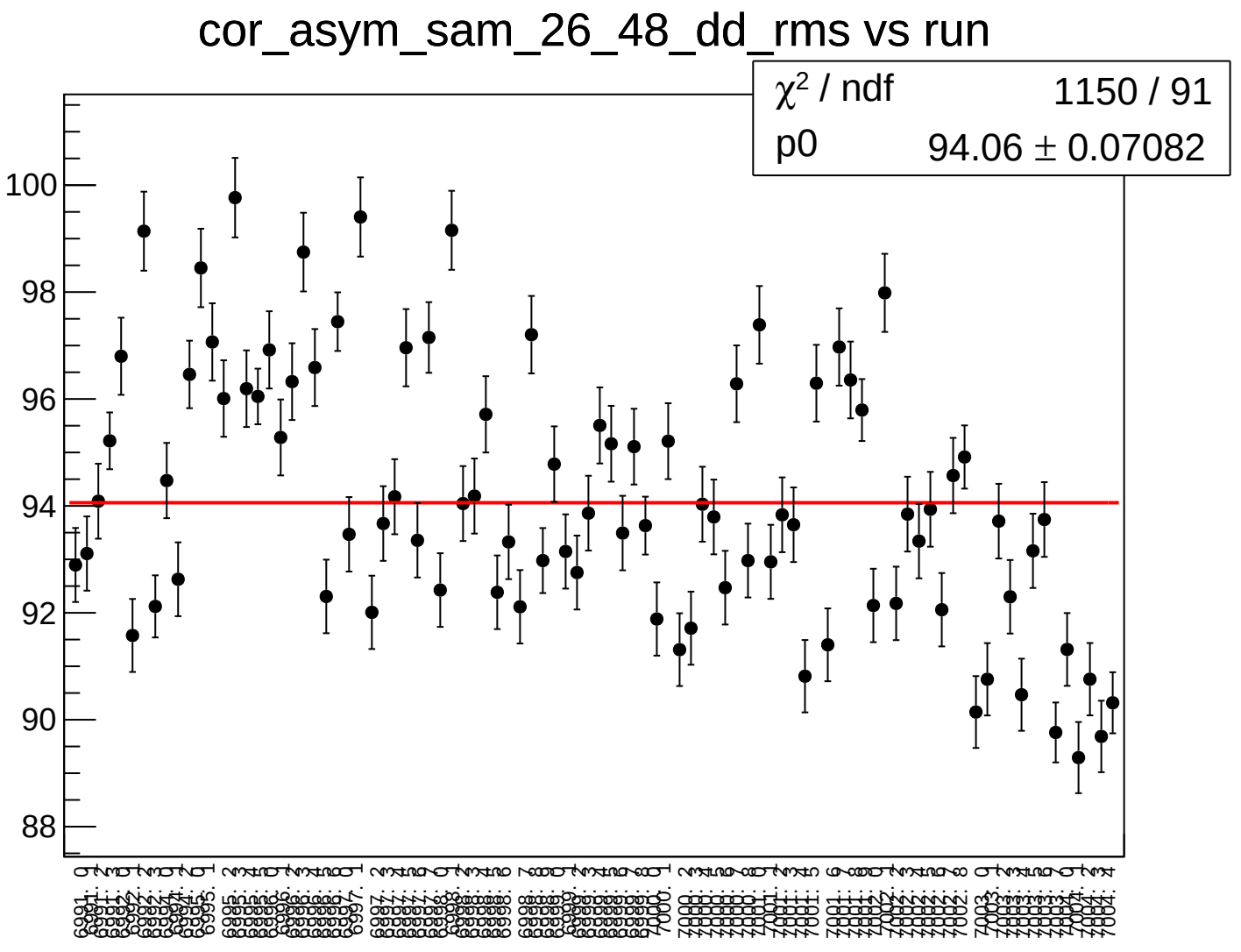

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1150 / 91
p0 94.06 ± 0.07082
100
98
96
94
92
90
88

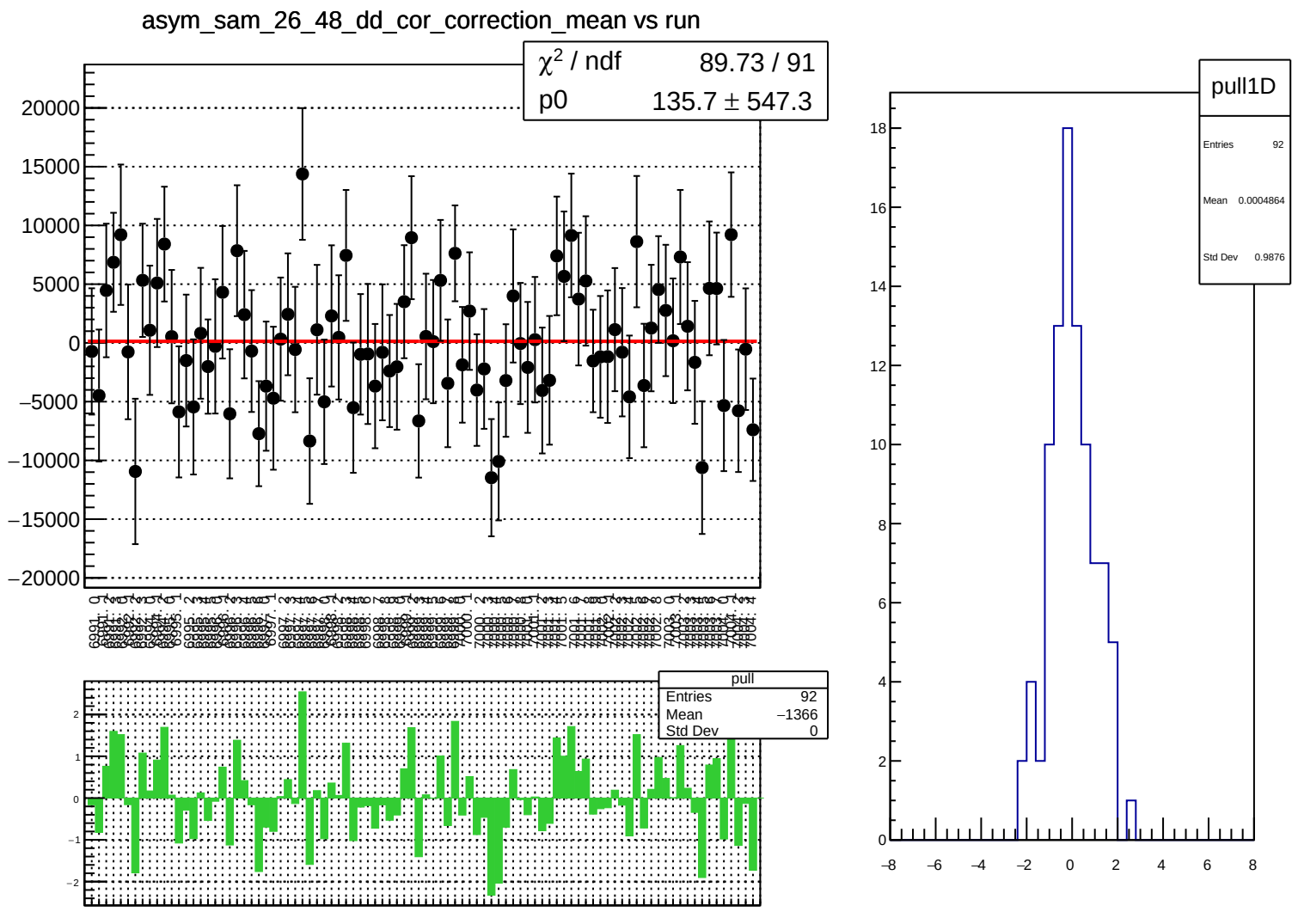

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 89.73 / 91
p0 135.7 ± 547.3
pull
Entries 92
Mean −1369
Std Dev 0
pull1D
Entries 92
Mean 0.0004852
Std Dev 0.9876

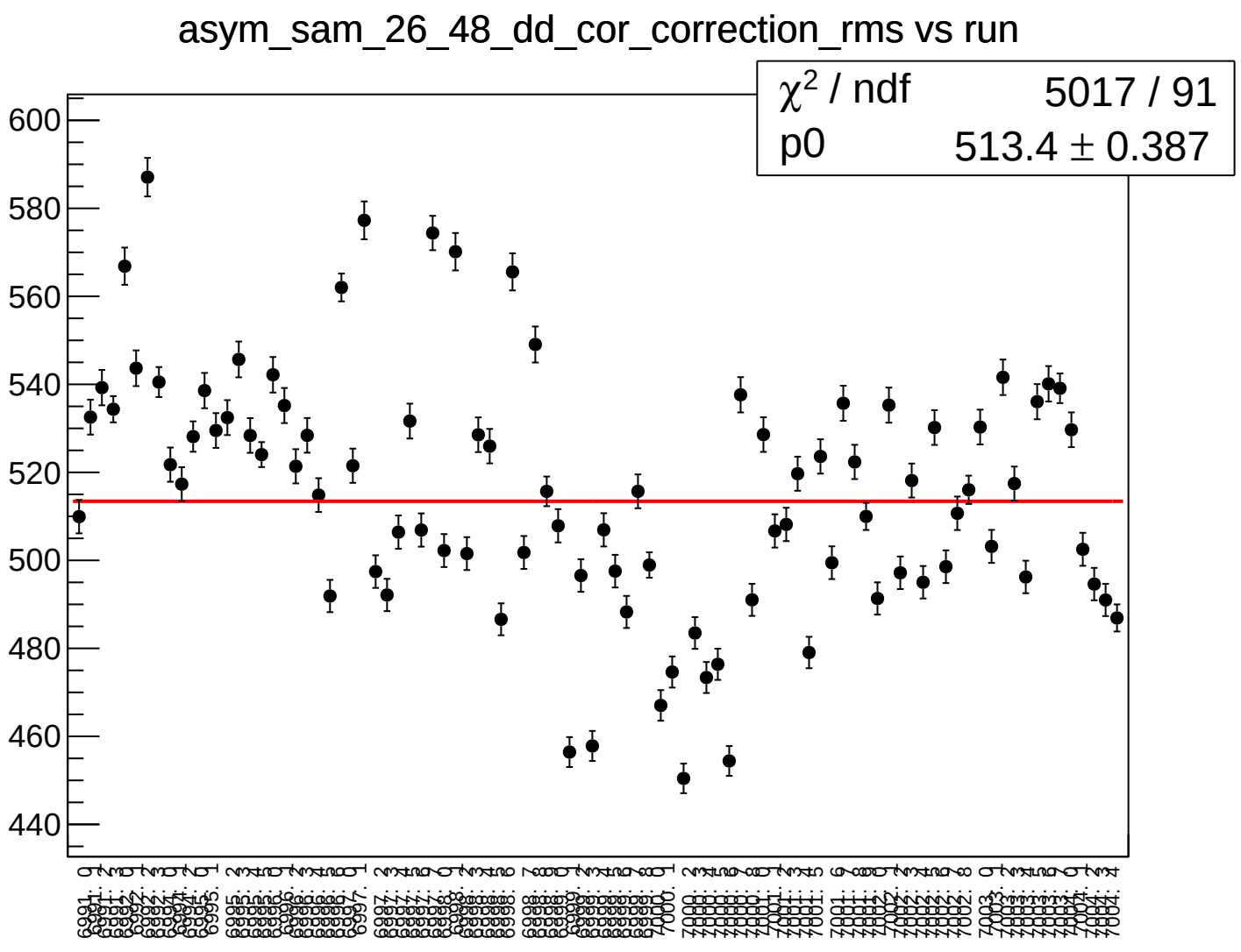

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 5017 / 91
p0 513.4 ± 0.387
600
580
560
540
520
500
480
460
440

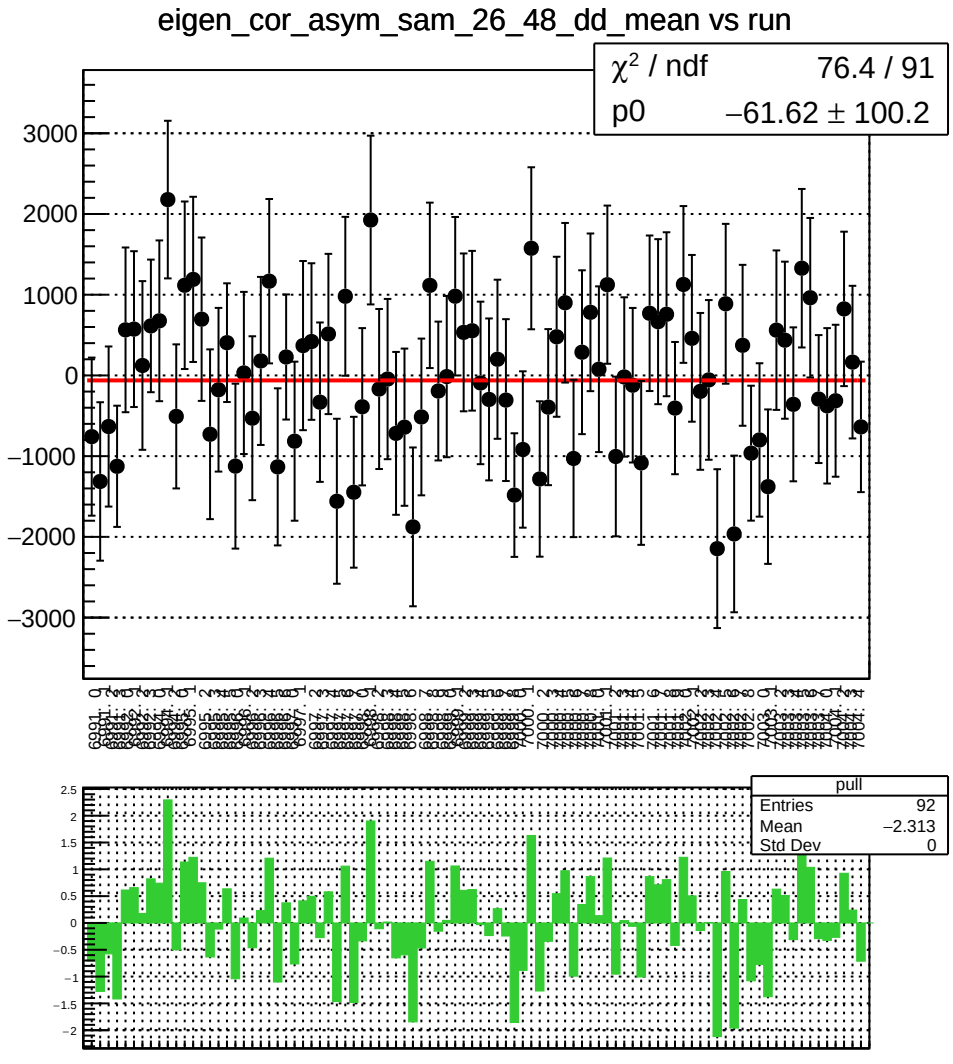

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 76.4 / 91
p0 −61.62 ± 100.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −2.313
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

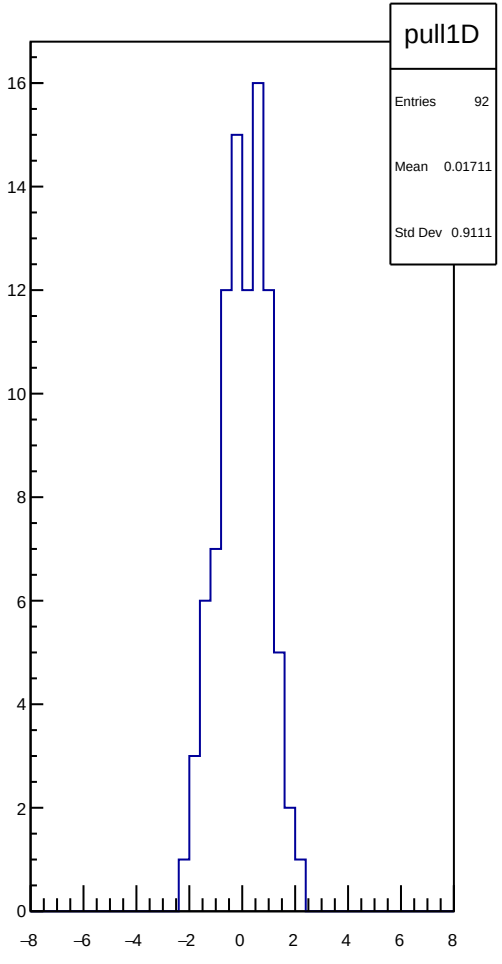

pull1D
Entries 92
Mean 0.01711
Std Dev 0.9111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

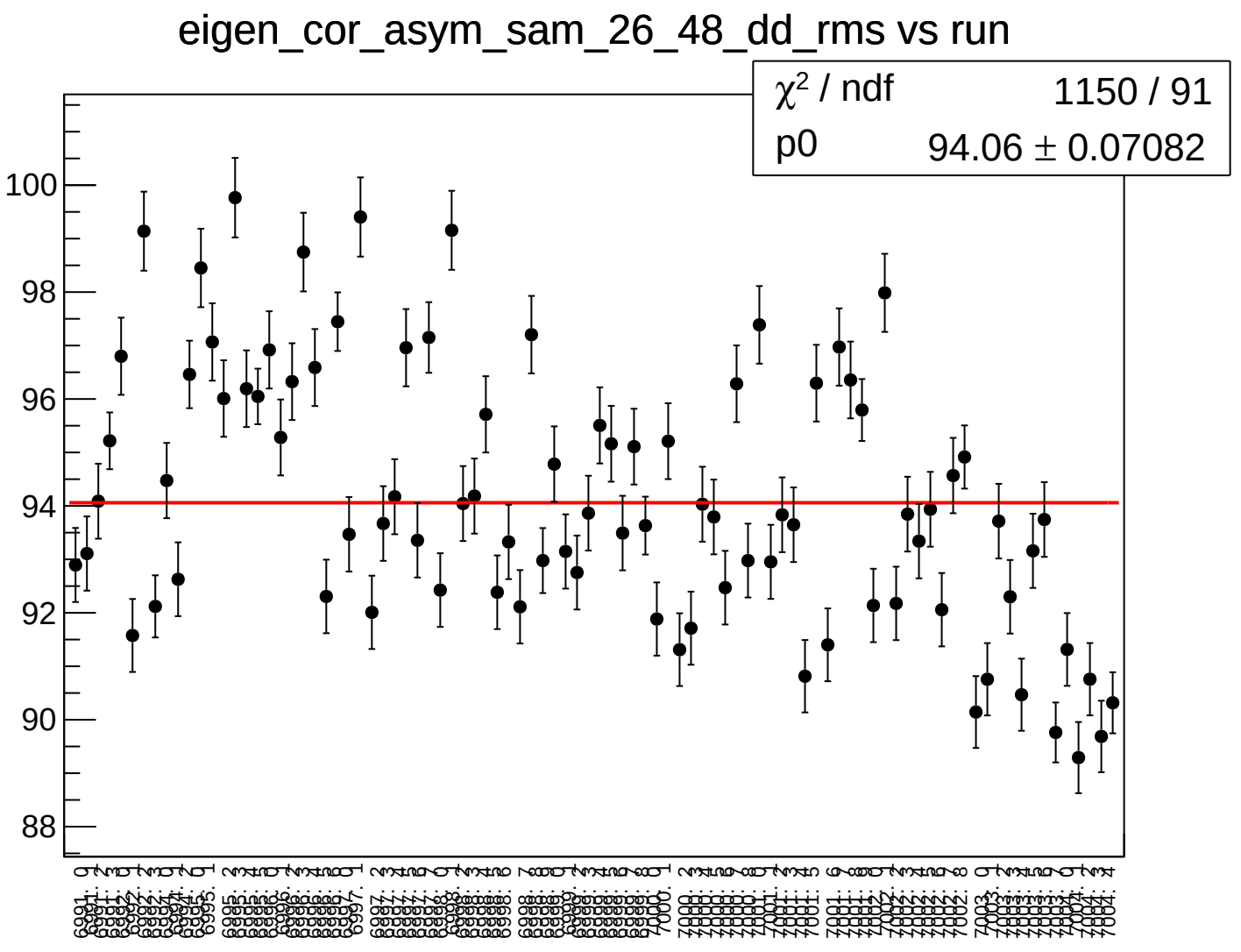

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1150 / 91
p0 94.06 ± 0.07082
100
98
96
94
92
90
88

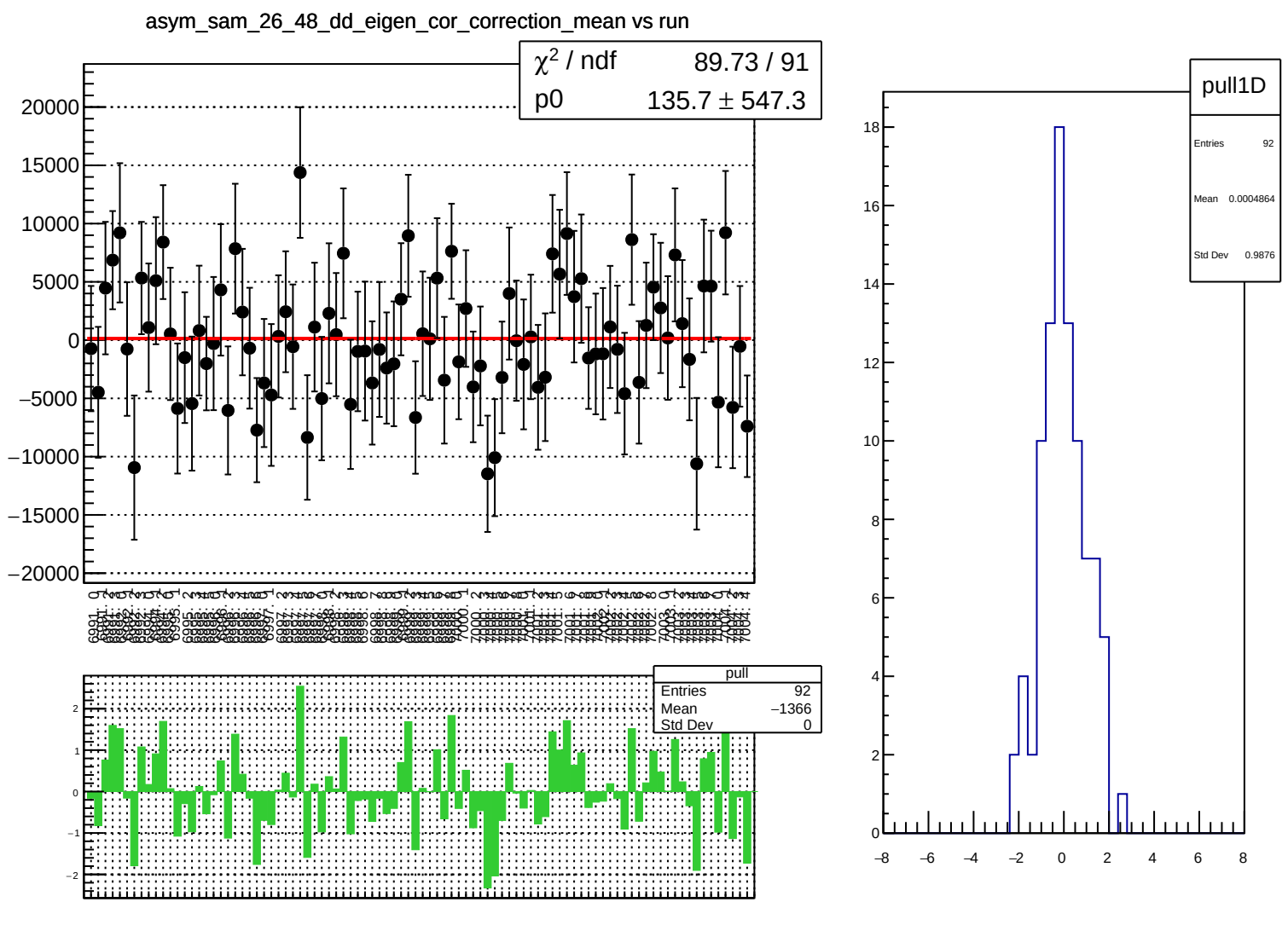

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 89.73 / 91
p0 135.7 ± 547.3
pull
Entries 92
Mean −1366
Std Dev 0
pull1D
Entries 92
Mean 0.0004864
Std Dev 0.9876

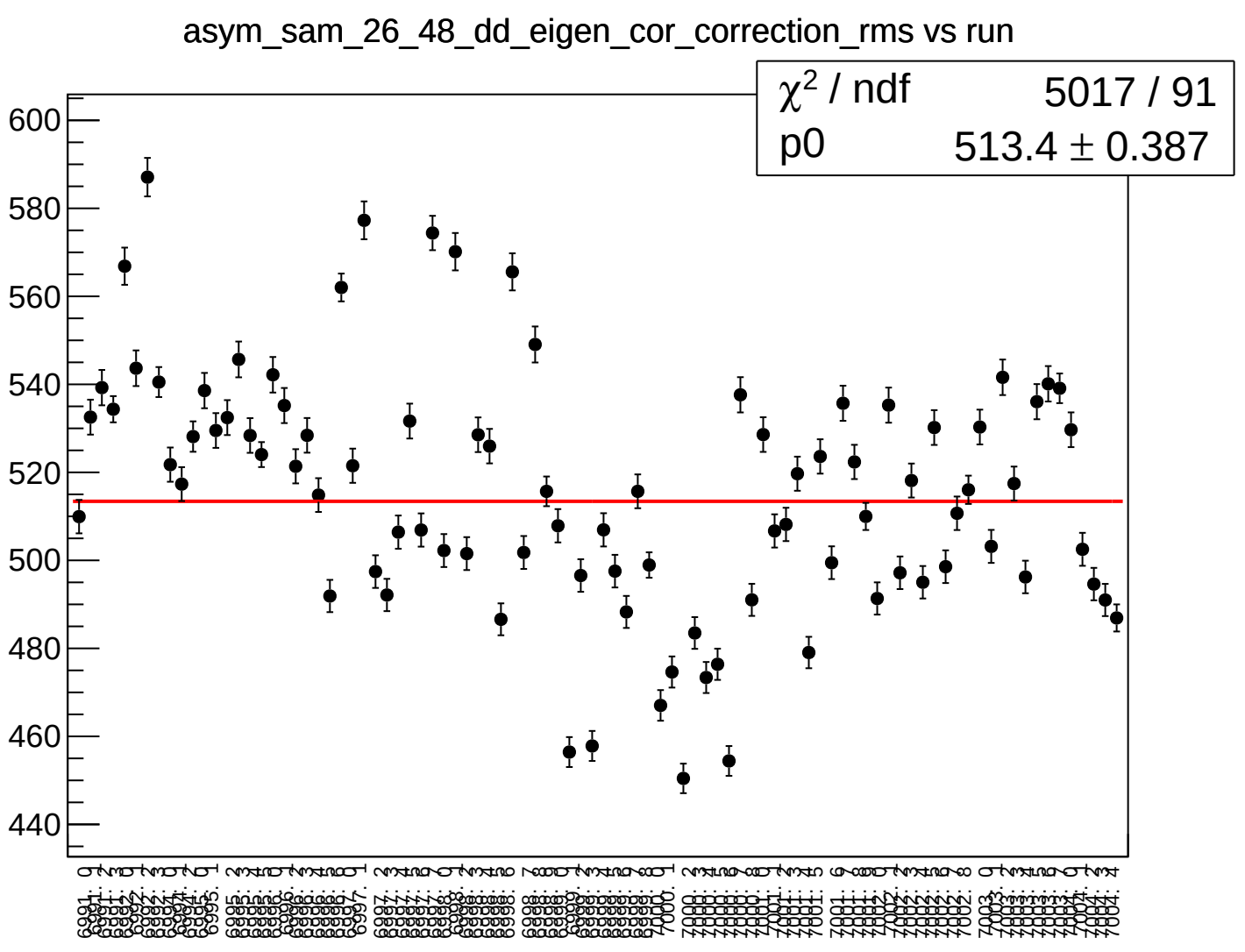

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 5017 / 91
p0 513.4 ± 0.387
600
580
560
540
520
500
480
460
440

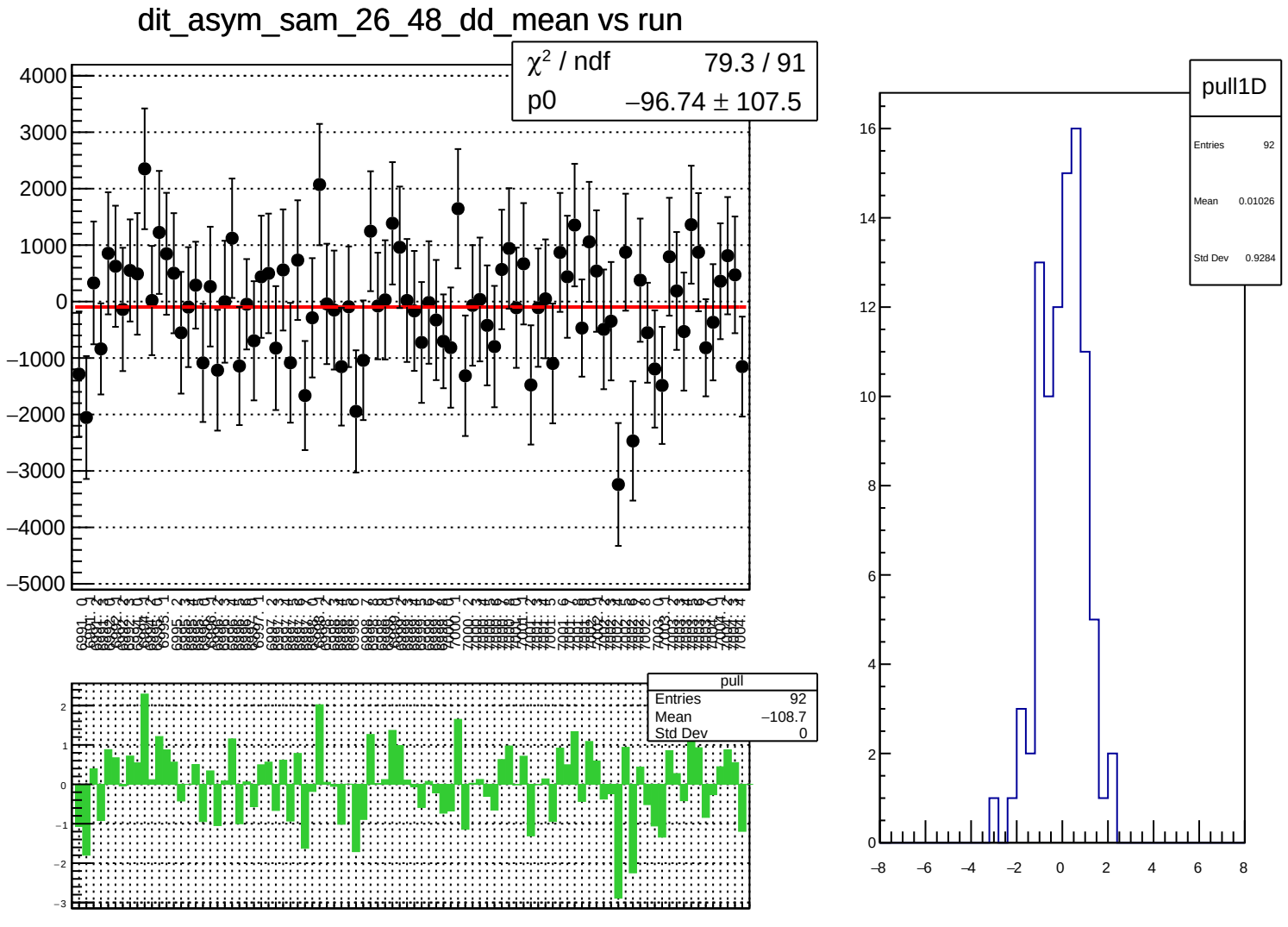

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 76.4 / 91
p0 −61.62 ± 100.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −2.313
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

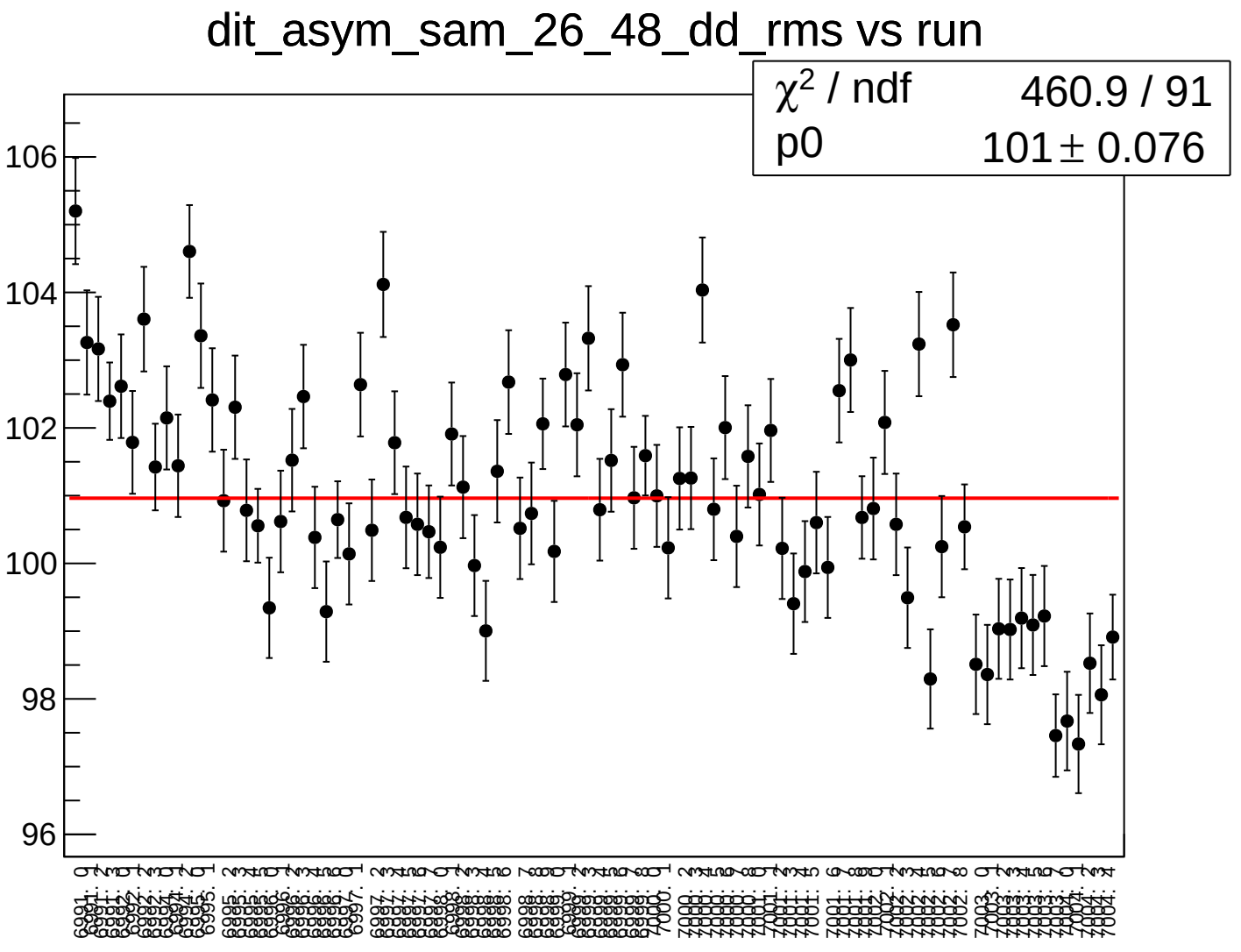

pull1D
Entries 92
Mean 0.01711
Std Dev 0.9111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

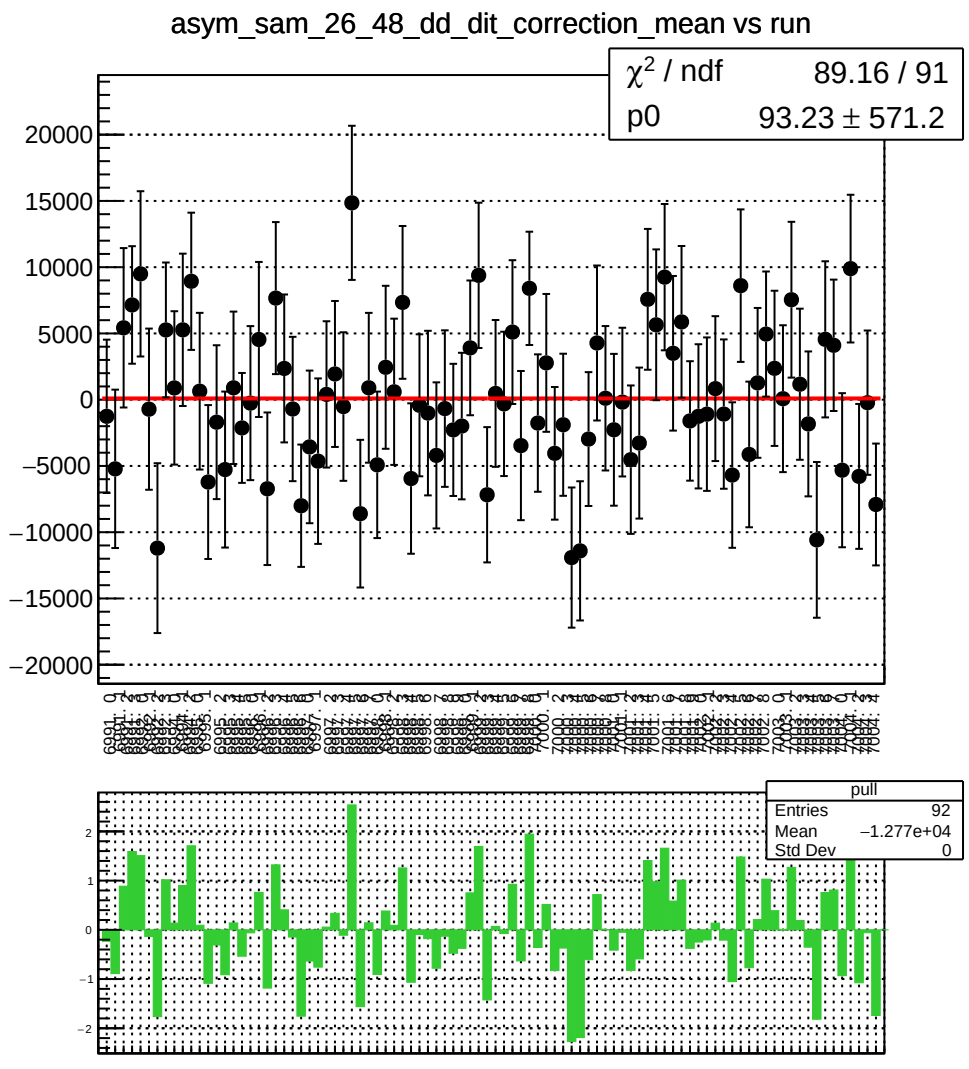

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1150 / 91
p0 94.06 ± 0.07082
100
98
96
94
92
90
88

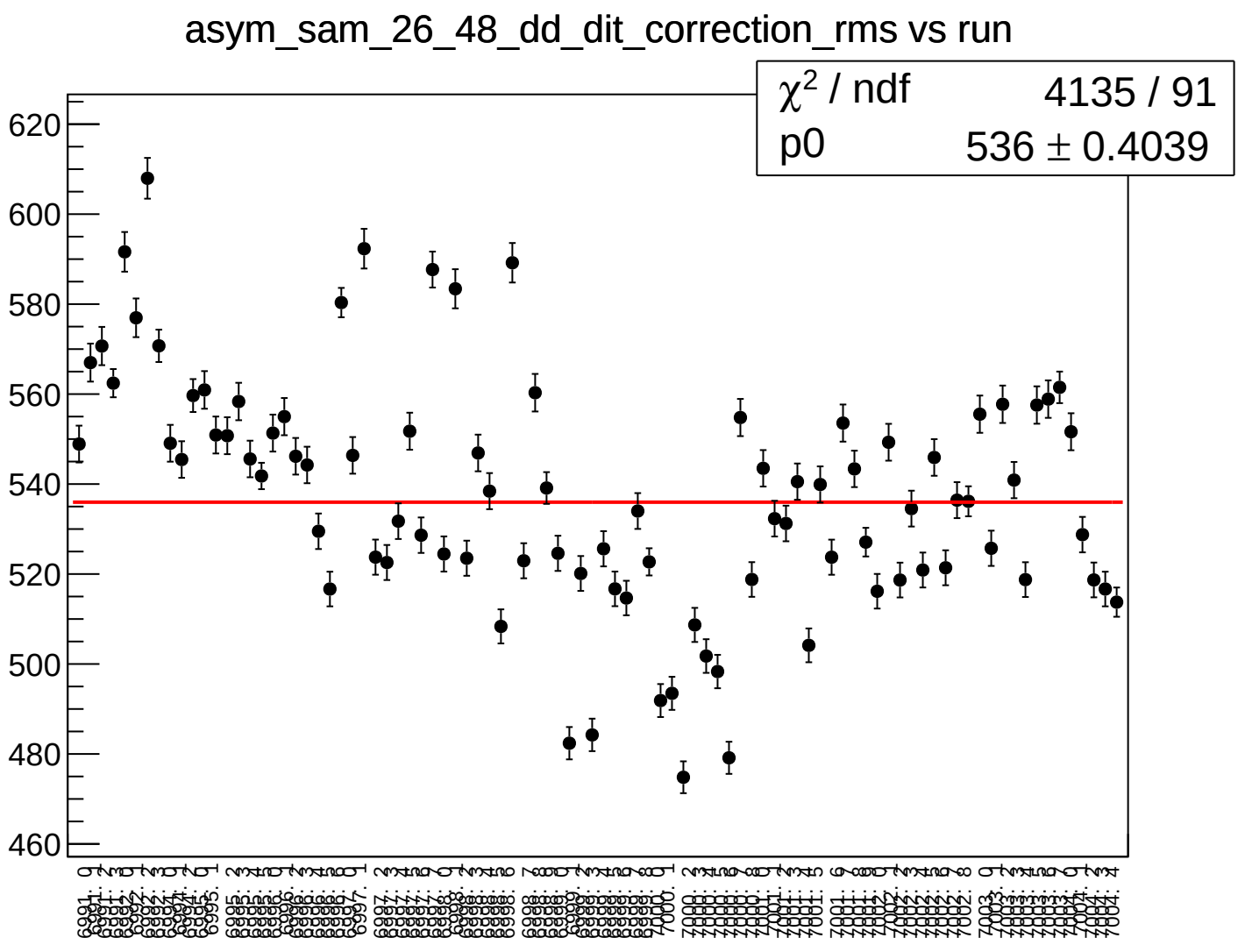

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.73 / 91
p0 135.7 ± 547.3
pull
Entries 92
Mean −1366
Std Dev 0
pull1D
Entries 92
Mean 0.0004864
Std Dev 0.9876

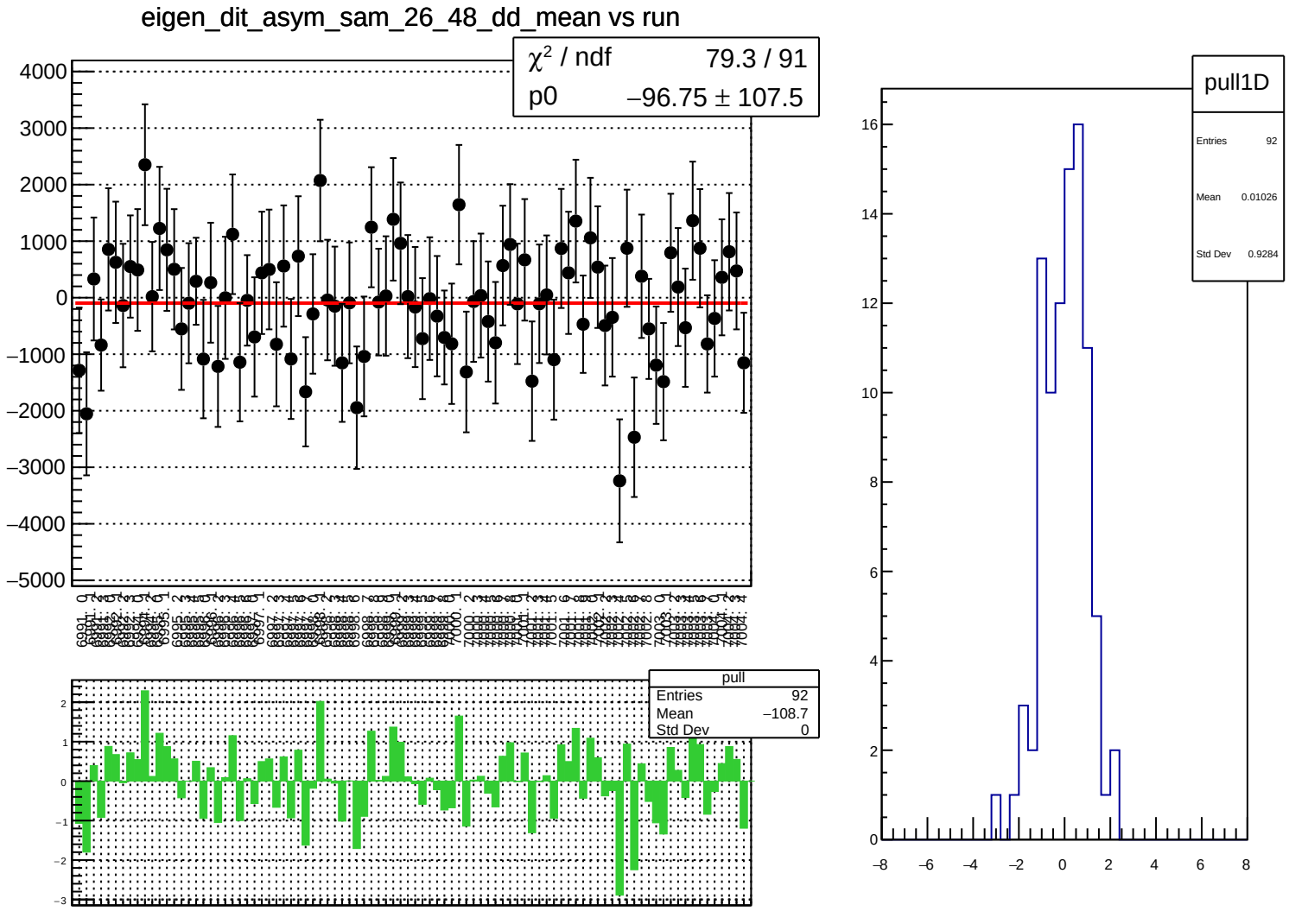

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5017 / 91
p0 513.4 ± 0.387
600
580
560
540
520
500
480
460
440

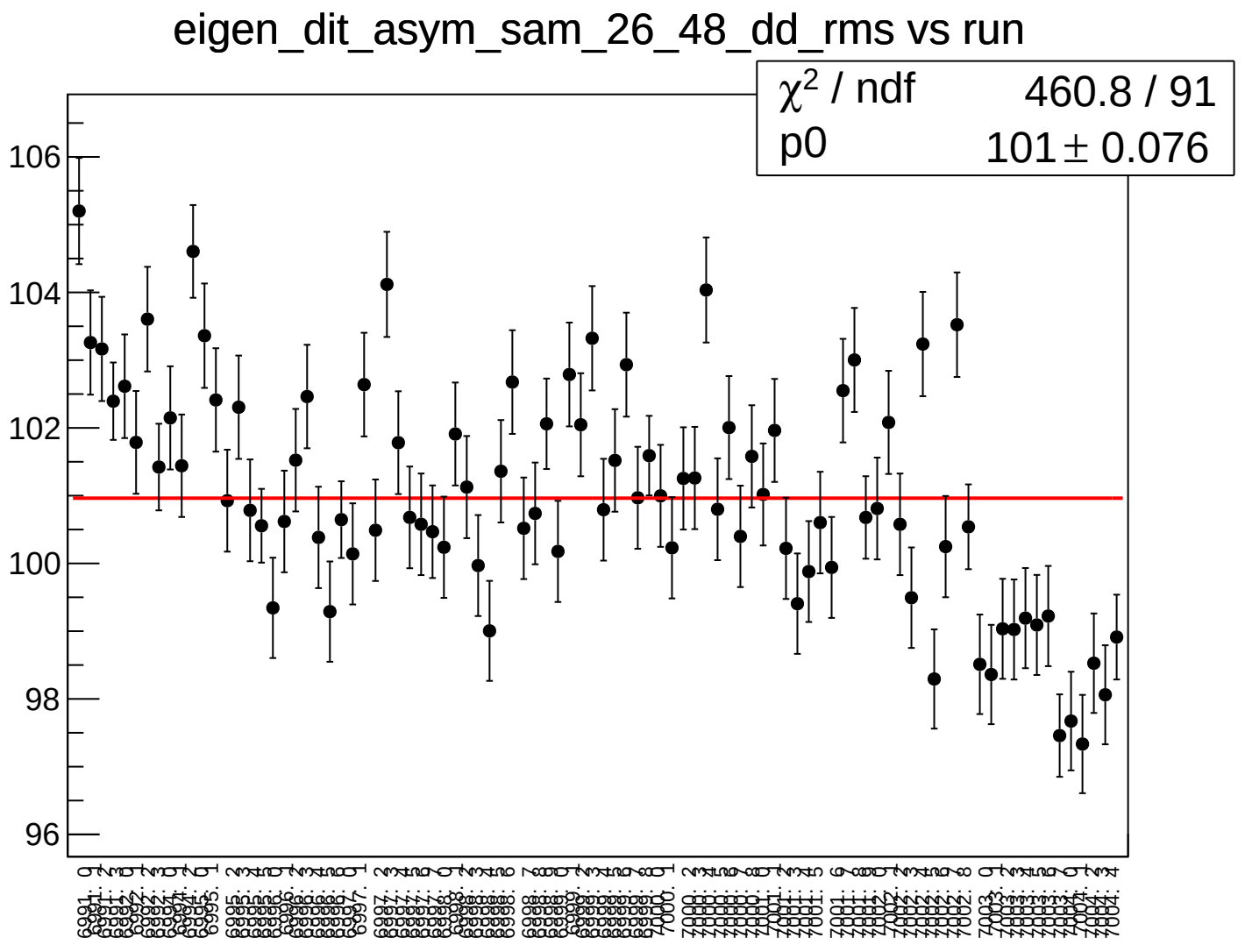

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 79.3 / 91
p0 −96.74 ± 107.5
pull
Entries 92
Mean −108.7
Std Dev 0
pull1D
Entries 92
Mean 0.01026
Std Dev 0.9284

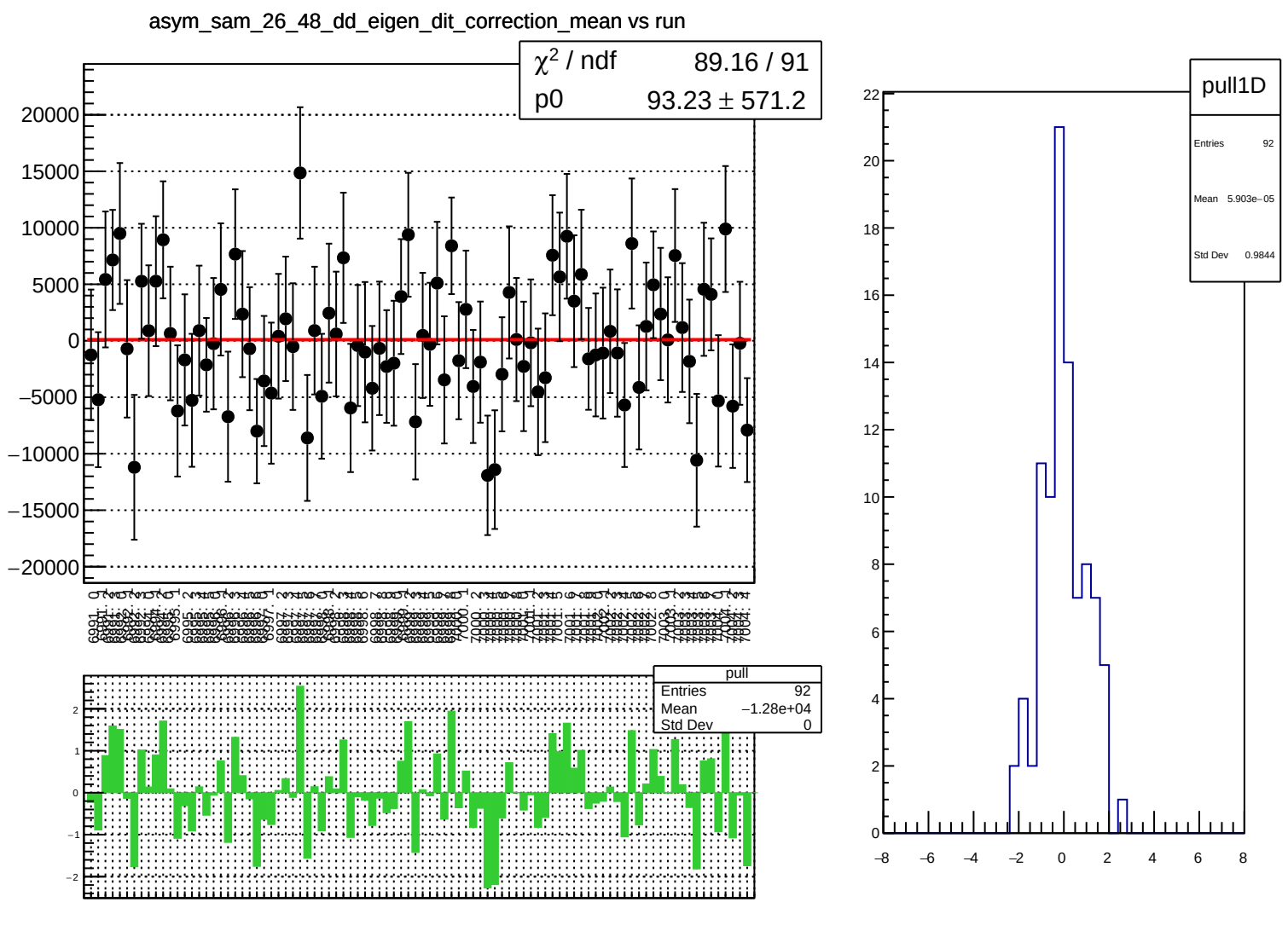

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 460.9 / 91
p0 101 ± 0.076
106
104
102
100
98
96

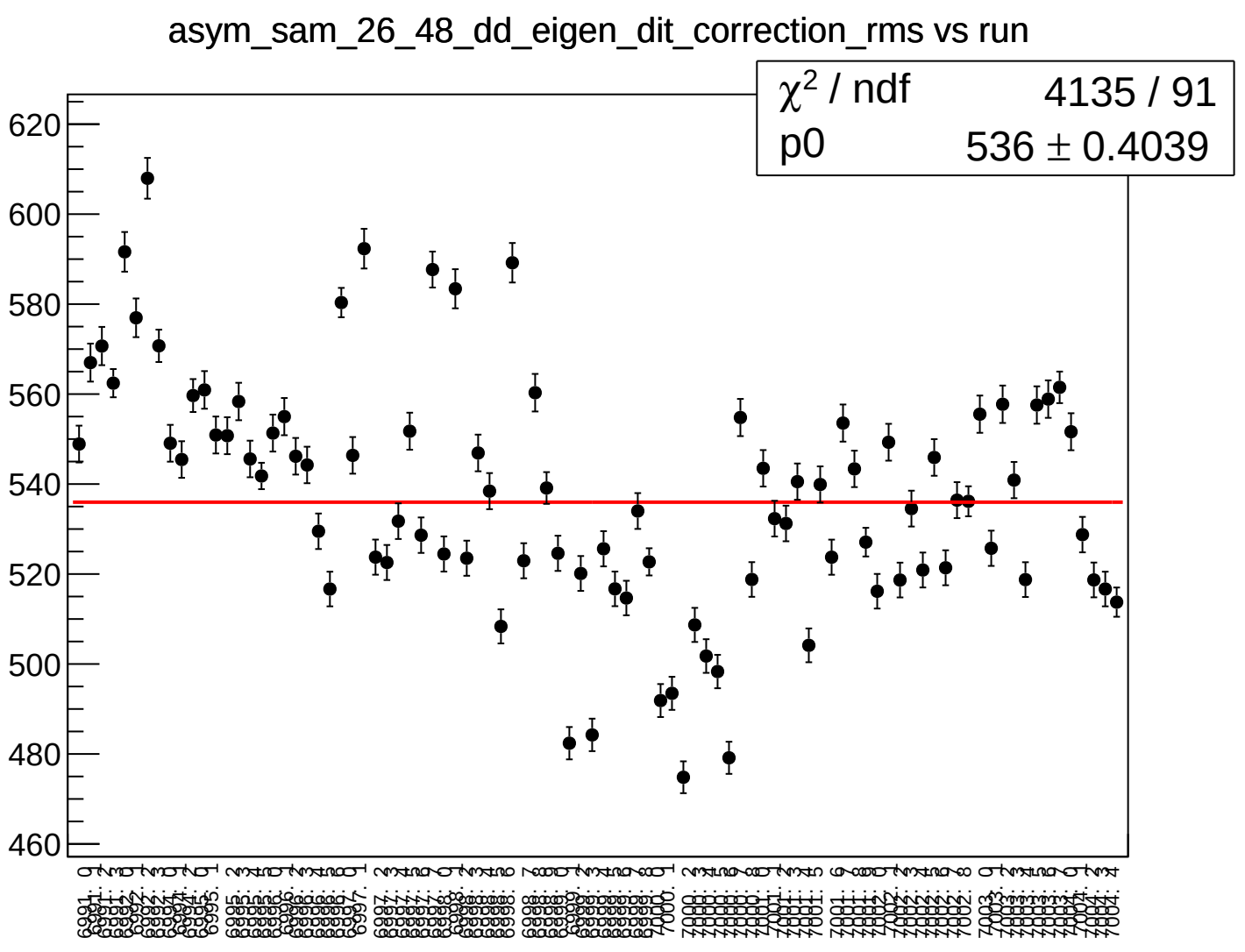

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 89.16 / 91
p0 93.23 ± 571.2
pull
Entries 92
Mean −1.277e+04
Std Dev 0
pull1D
Entries 92
Mean 5.917e−05
Std Dev 0.9844

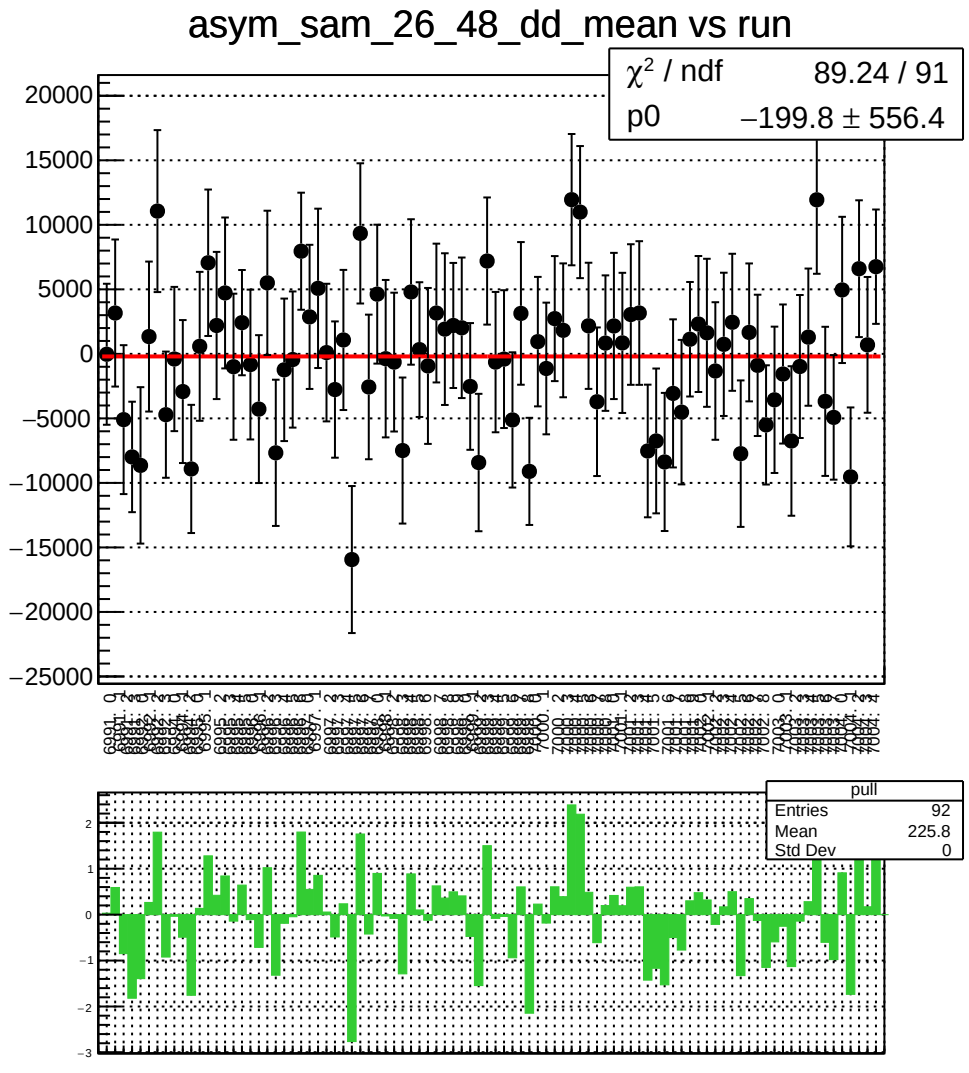

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 4135 / 91
p0 536 ± 0.4039
620
600
580
560
540
520
500
480
460

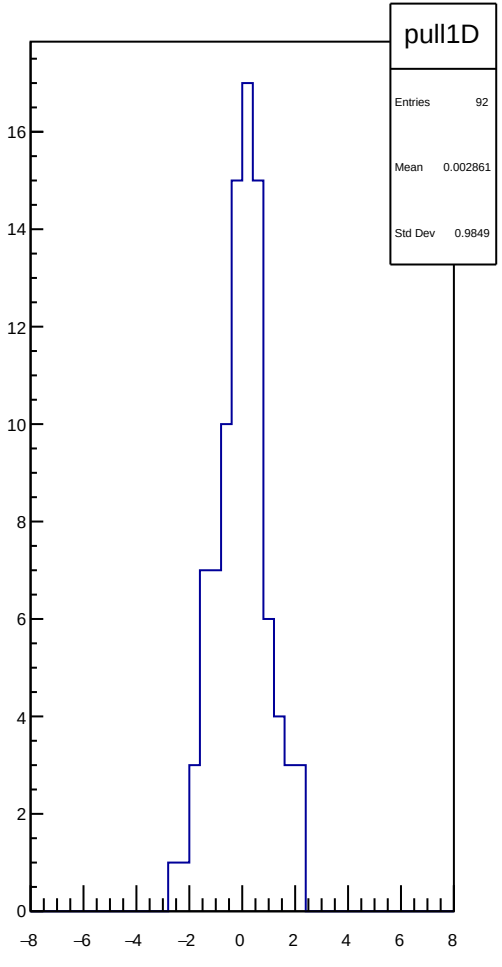

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 79.3 / 91
p0 −96.75 ± 107.5
pull
Entries 92
Mean −108.7
Std Dev 0
pull1D
Entries 92
Mean 0.01026
Std Dev 0.9284

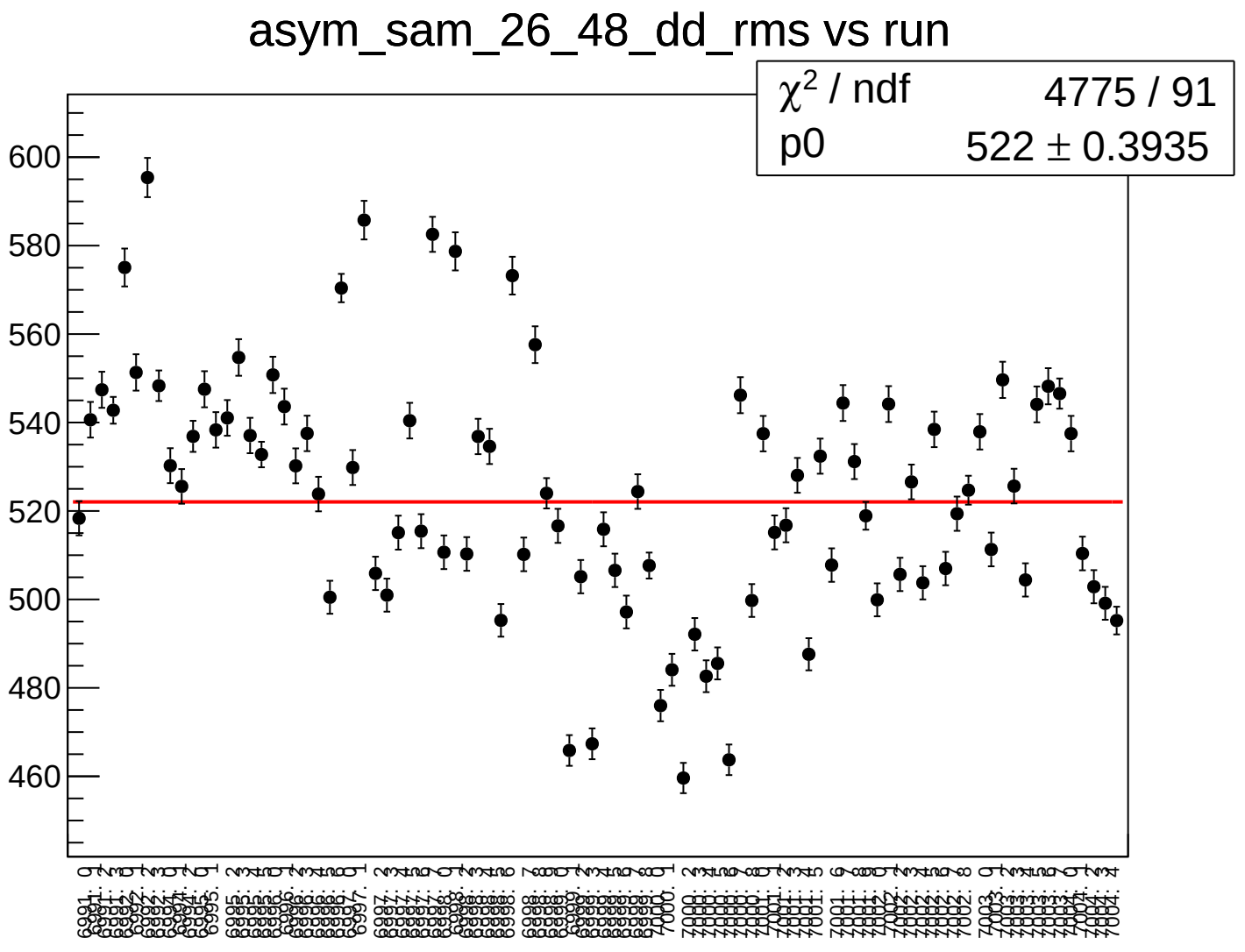

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 460.8 / 91
p0 101 ± 0.076
106
104
102
100
98
96

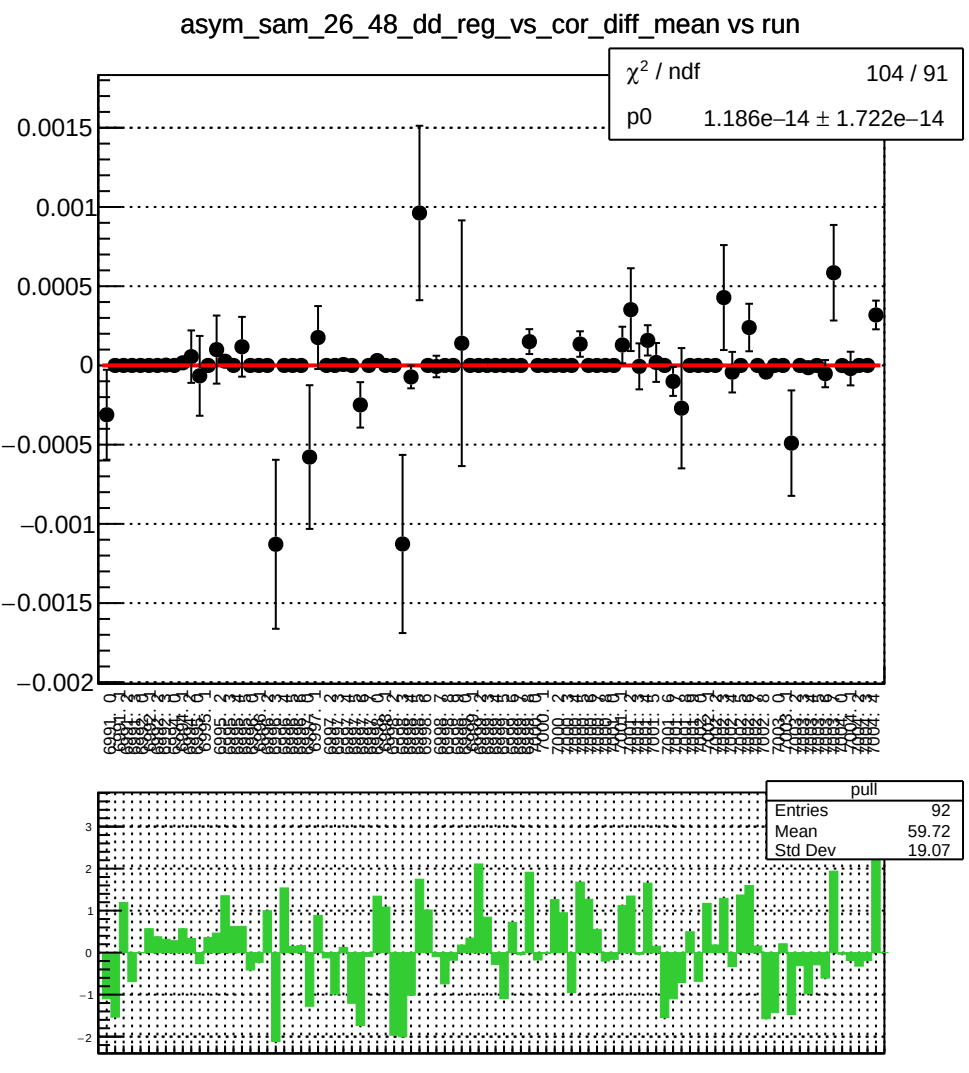

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.16 / 91
p0 93.23 ± 571.2
pull
Entries 92
Mean −1.28e+04
Std Dev 0
pull1D
Entries 92
Mean 5.903e−05
Std Dev 0.9844

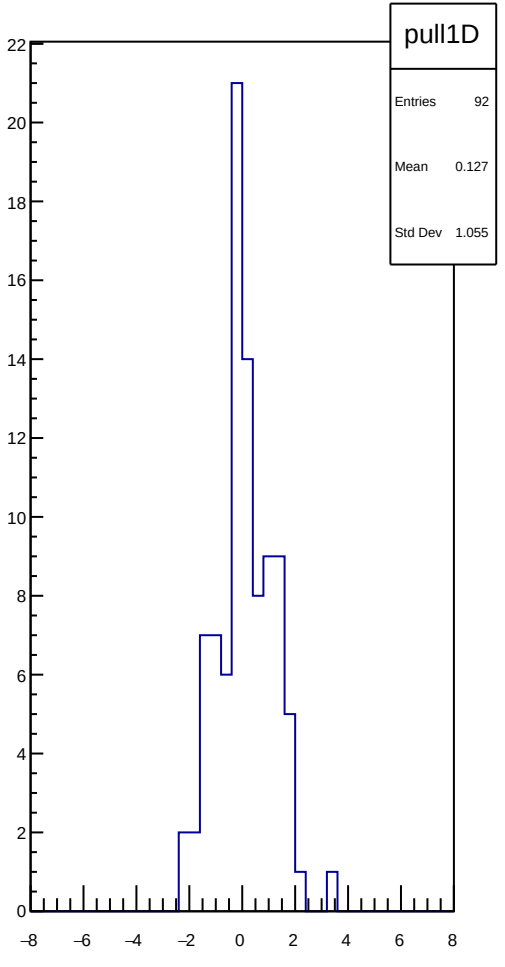

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4135 / 91
p0 536 ± 0.4039
620
600
580
560
540
520
500
480
460

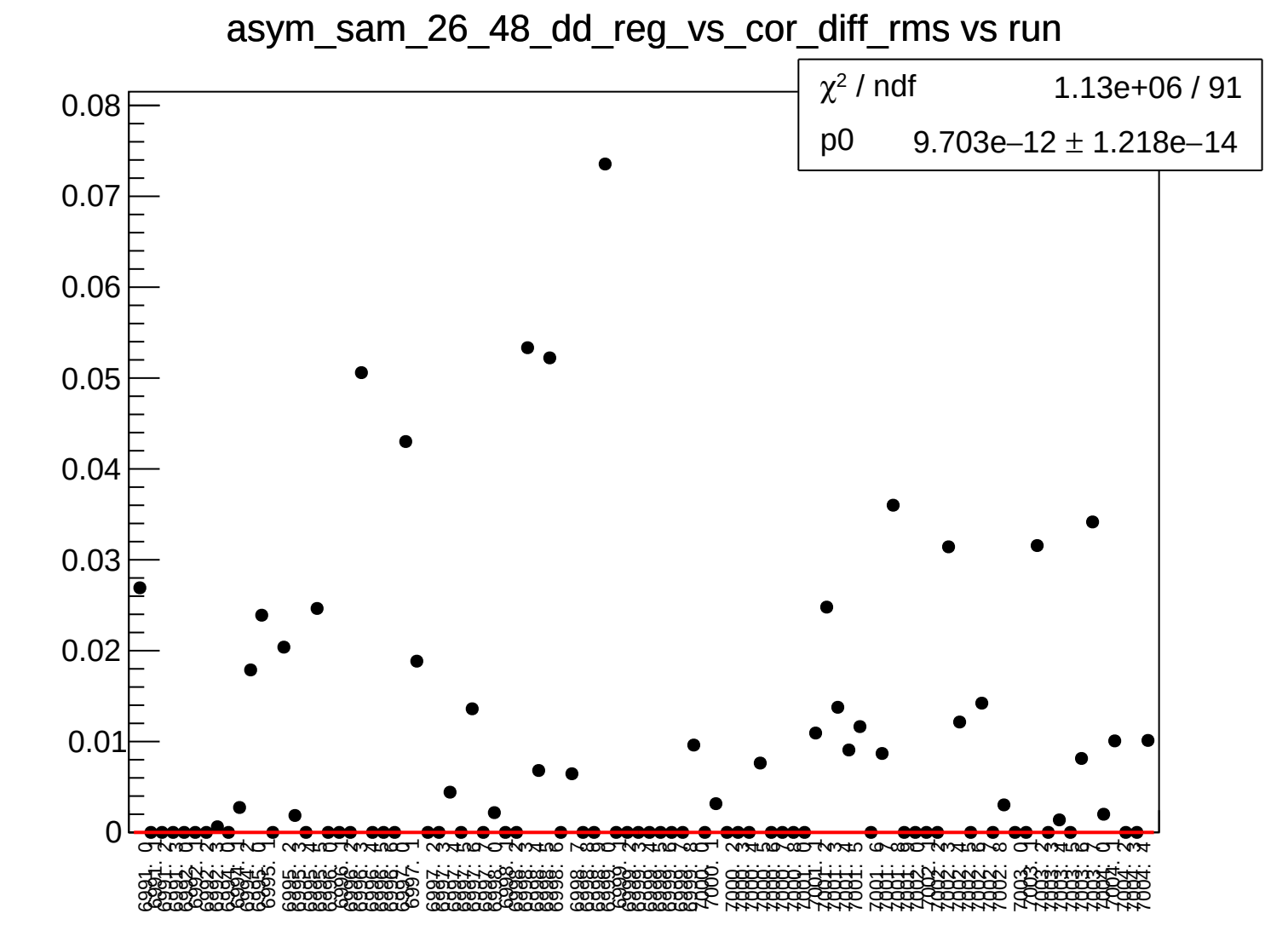

asym_sam_26_48_dd_mean vs run
χ² / ndf 89.24 / 91
p0 −199.8 ± 556.4
pull
Entries 92
Mean 225.8
Std Dev 0

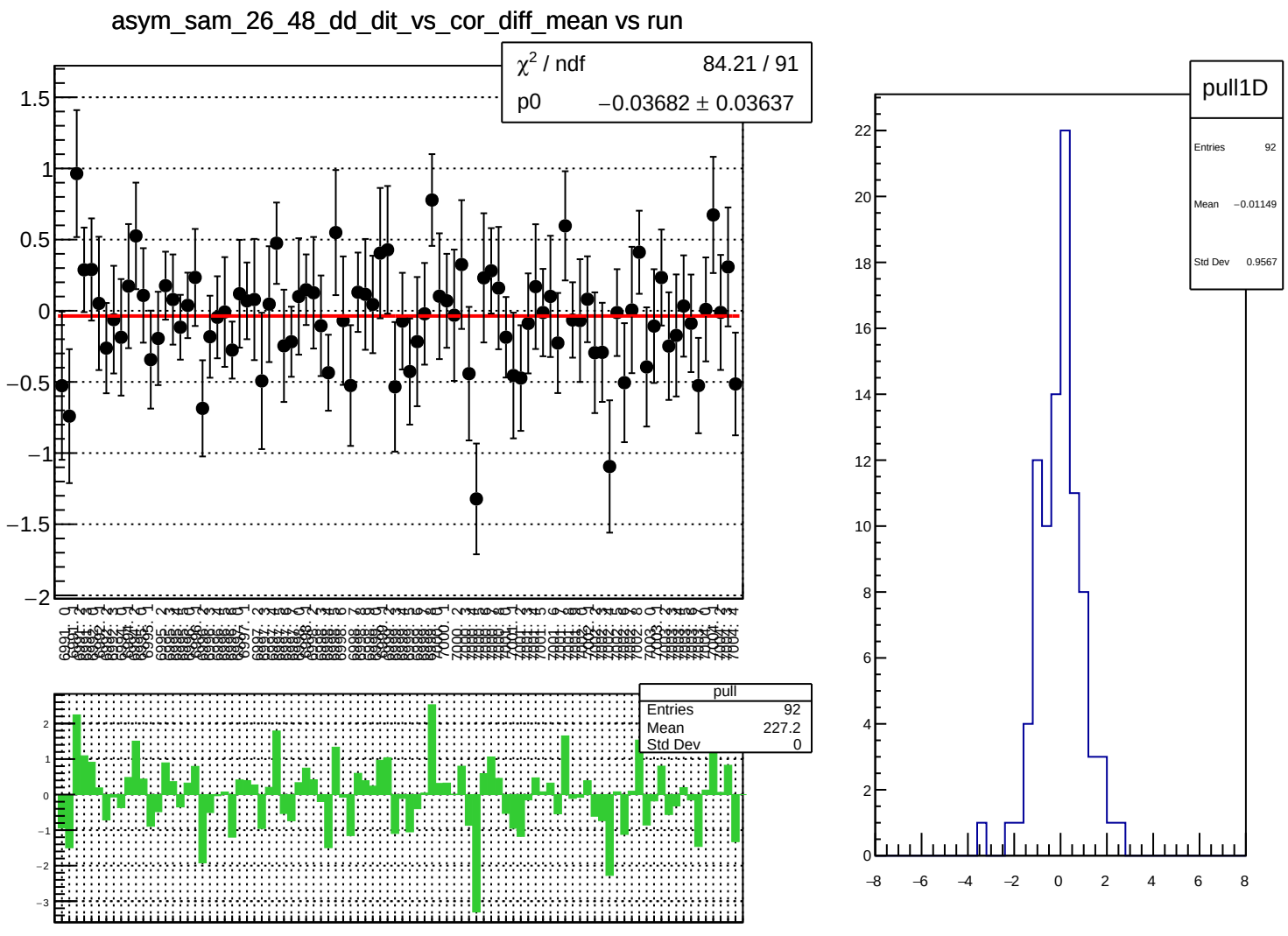

pull1D
Entries 92
Mean 0.002861
Std Dev 0.9849

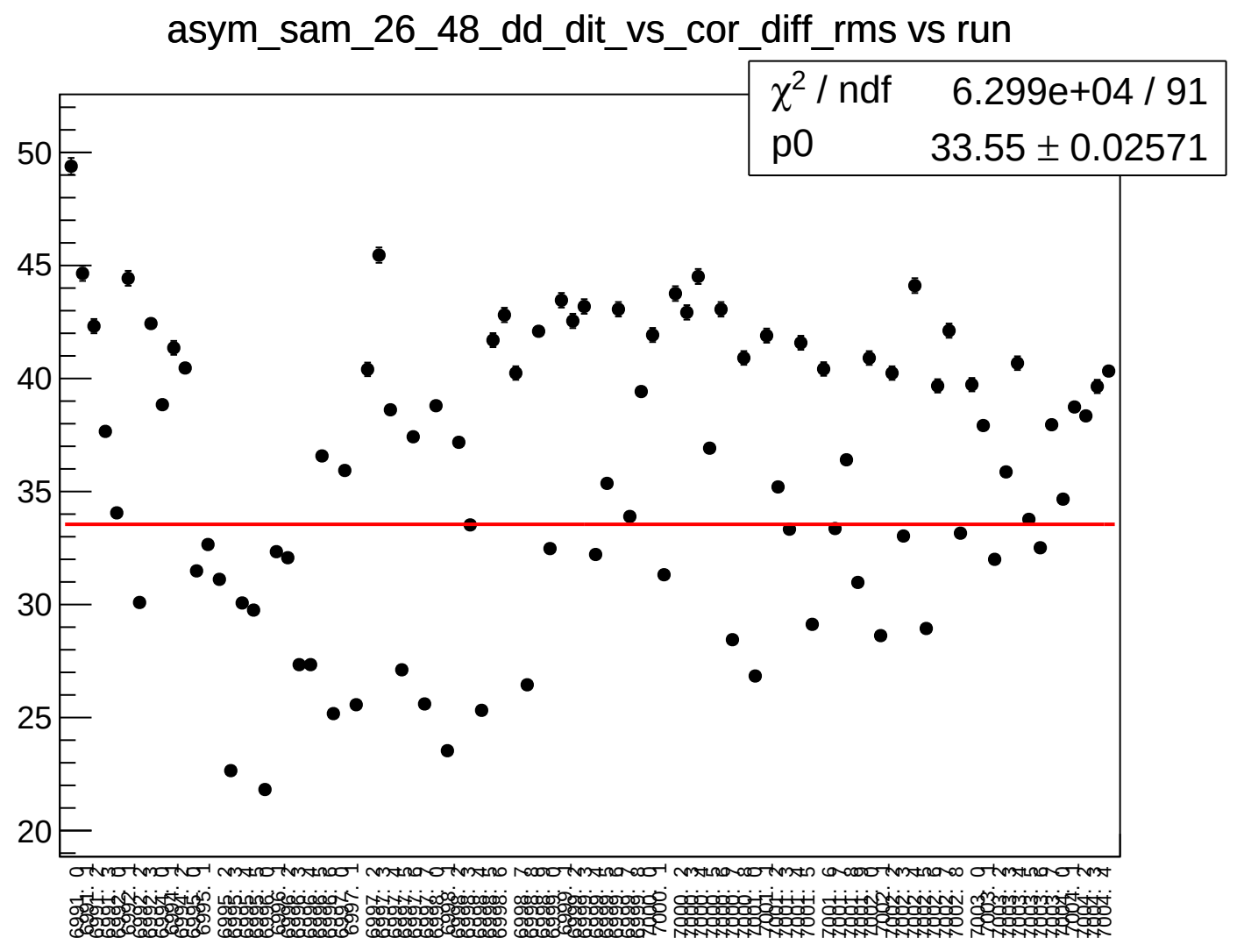

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 4775 / 91
p0 522 ± 0.3935
600
580
560
540
520
500
480
460

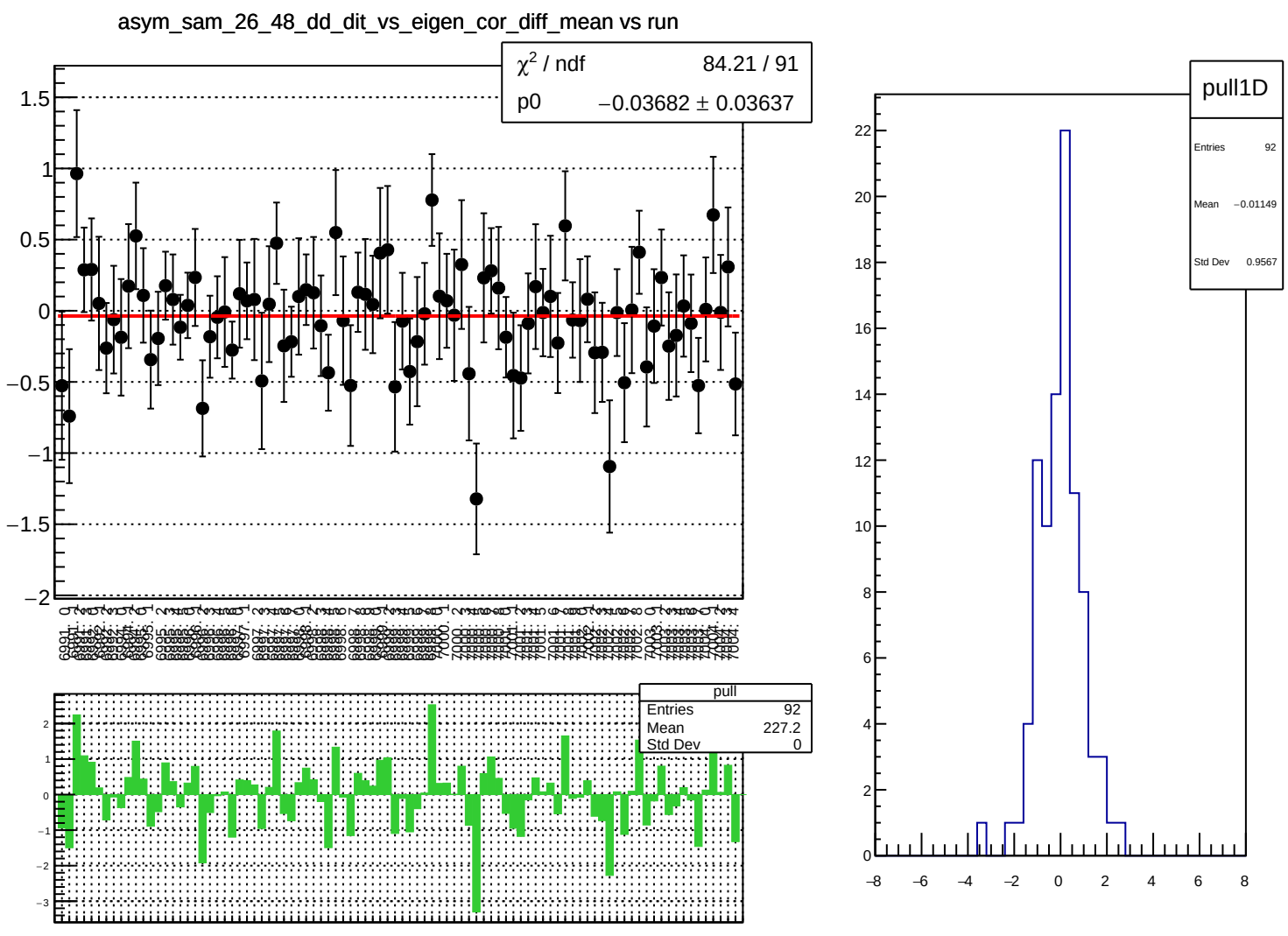

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 91
p0 1.186e−14 ± 1.722e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 92
Mean 59.72
Std Dev 19.07
3
2
1
0
−1
−2

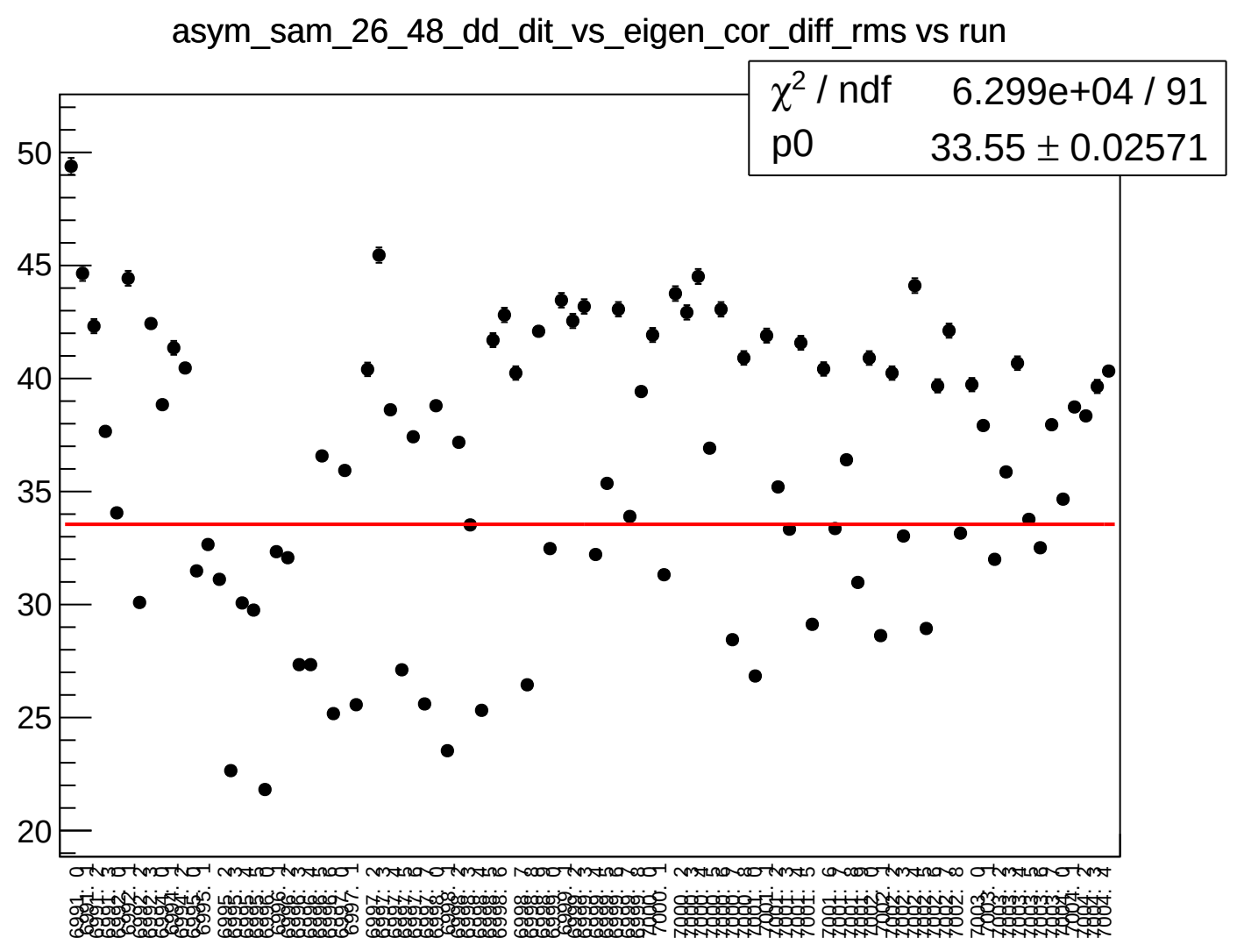

pull1D
Entries 92
Mean 0.127
Std Dev 1.055
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

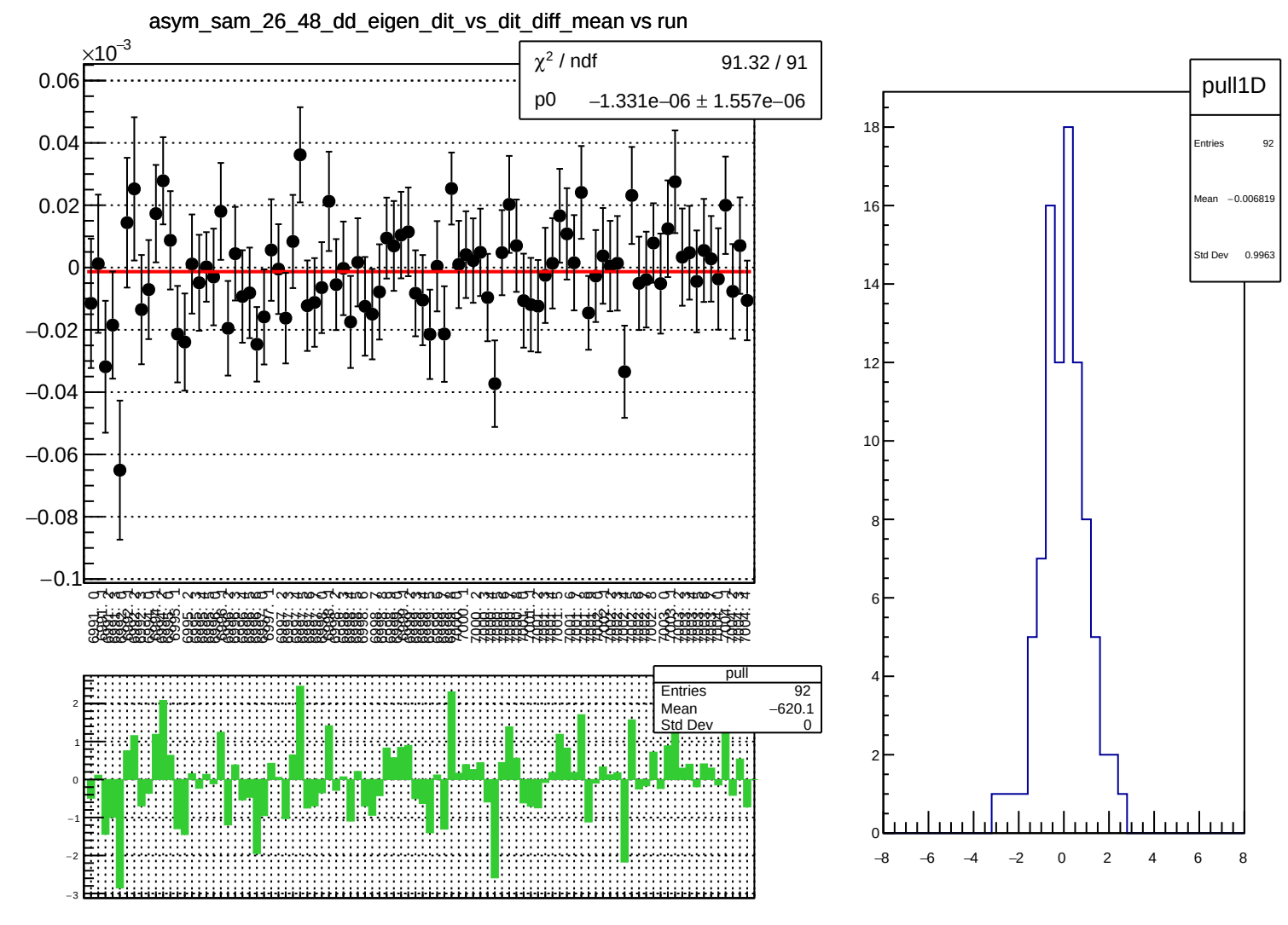

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.13e+06 / 91
p0 9.703e−12 ± 1.218e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

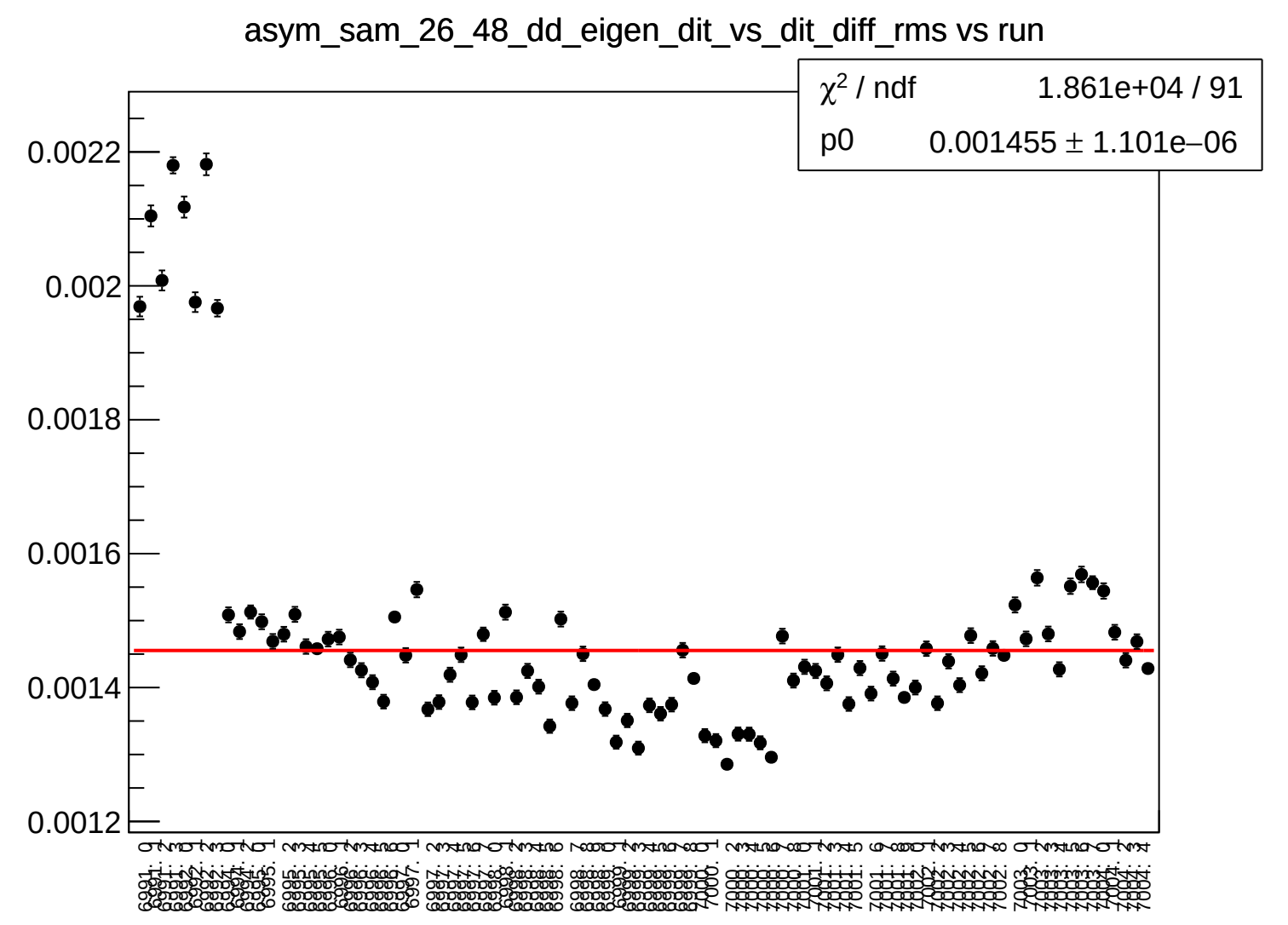

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.21 / 91
p0 −0.03682 ± 0.03637
pull
Entries 92
Mean 227.2
Std Dev 0
pull1D
Entries 92
Mean −0.01149
Std Dev 0.9567

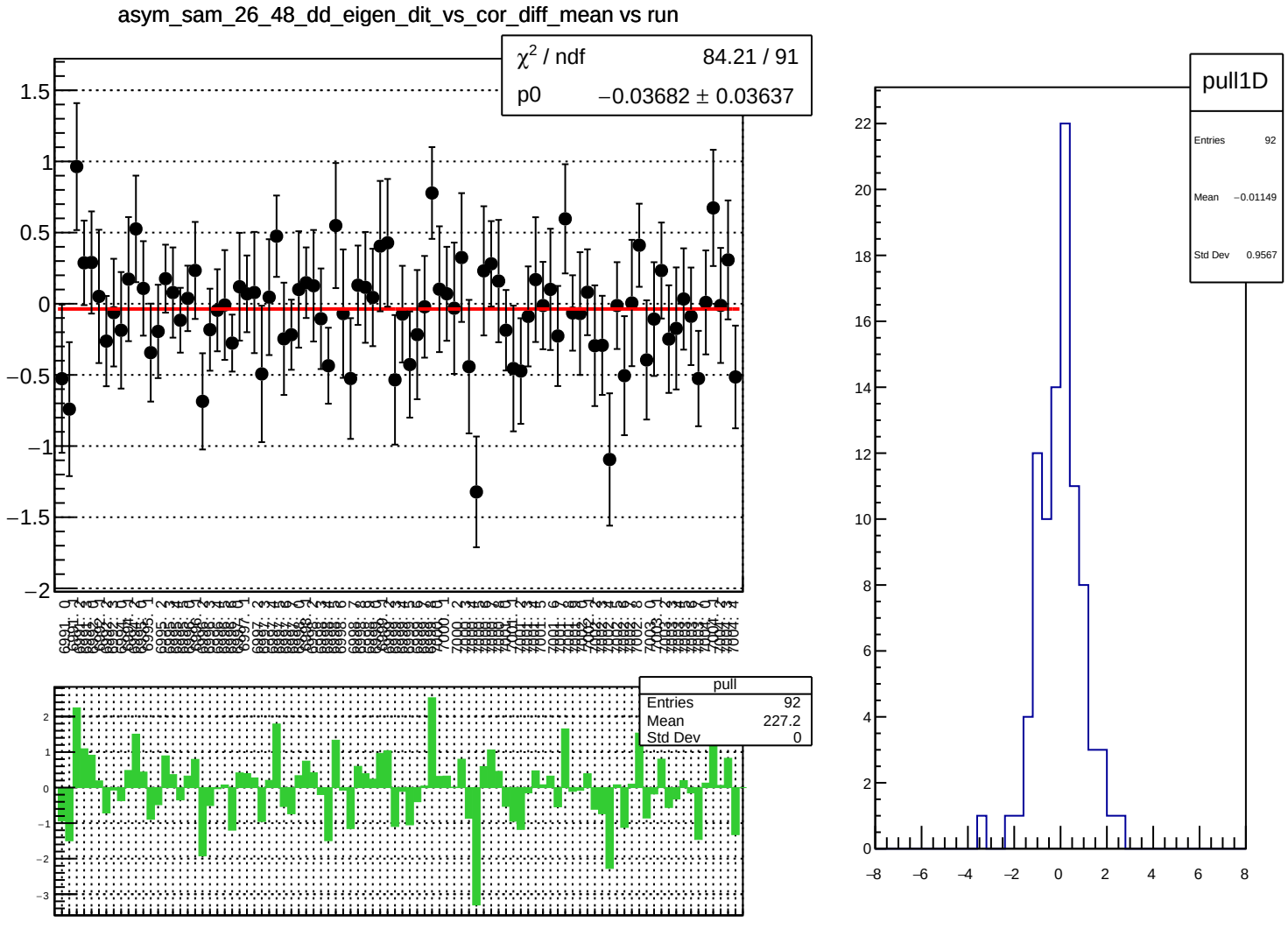

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.299e+04 / 91
p0 33.55 ± 0.02571
50
45
40
35
30
25
20

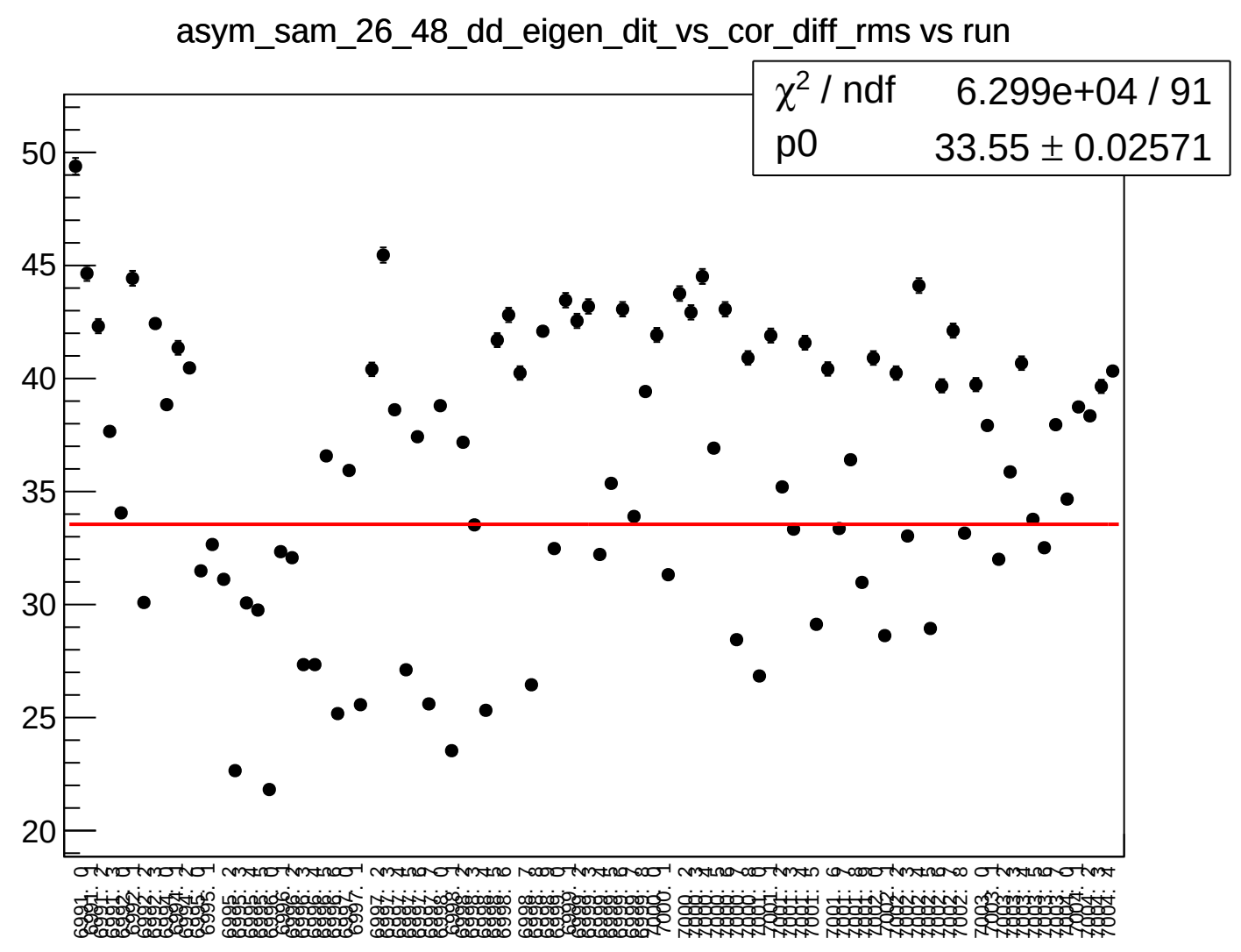

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.21 / 91
p0 −0.03682 ± 0.03637
pull
Entries 92
Mean 227.2
Std Dev 0
pull1D
Entries 92
Mean −0.01149
Std Dev 0.9567

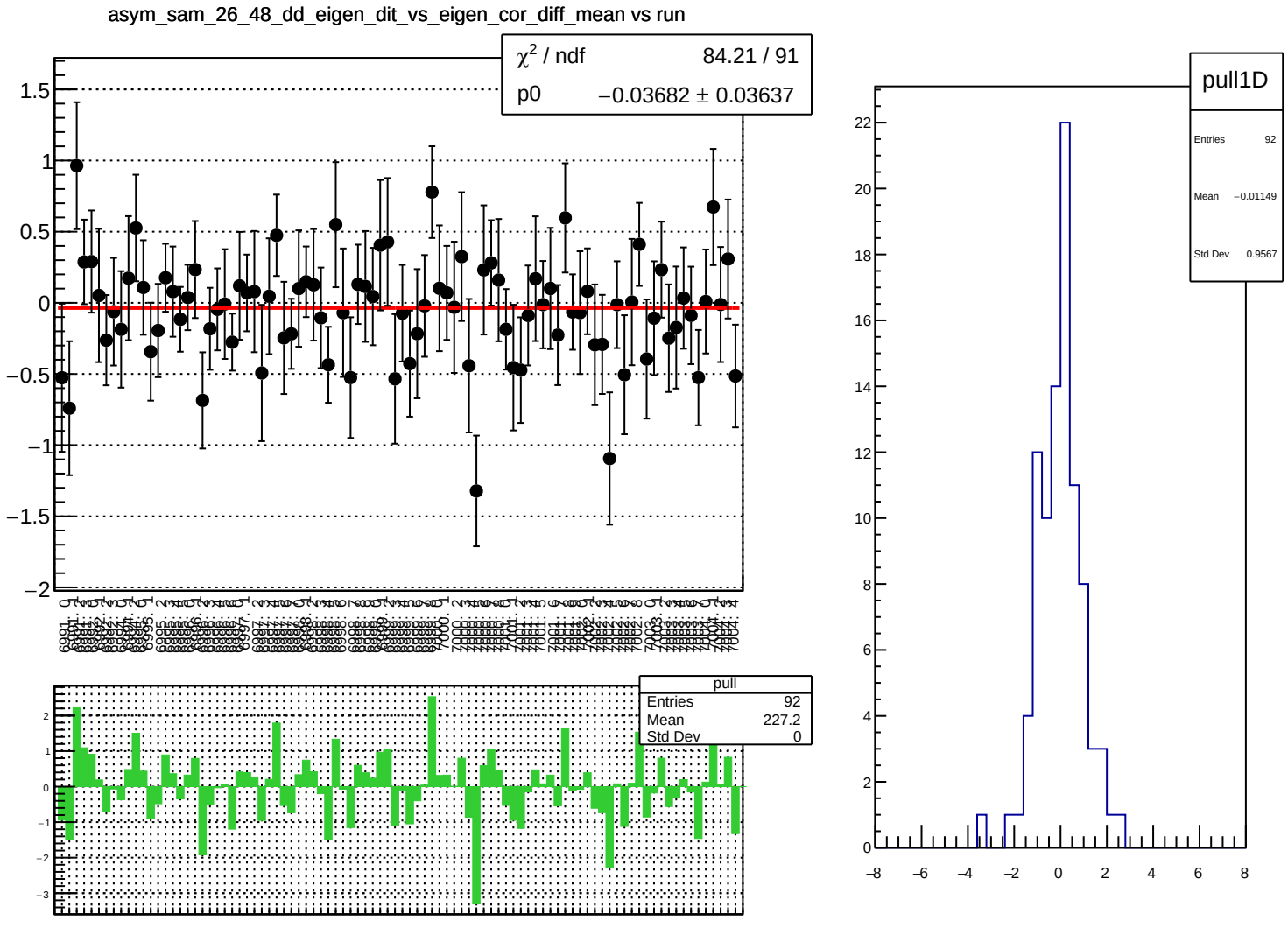

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.299e+04 / 91
p0 33.55 ± 0.02571
50
45
40
35
30
25
20

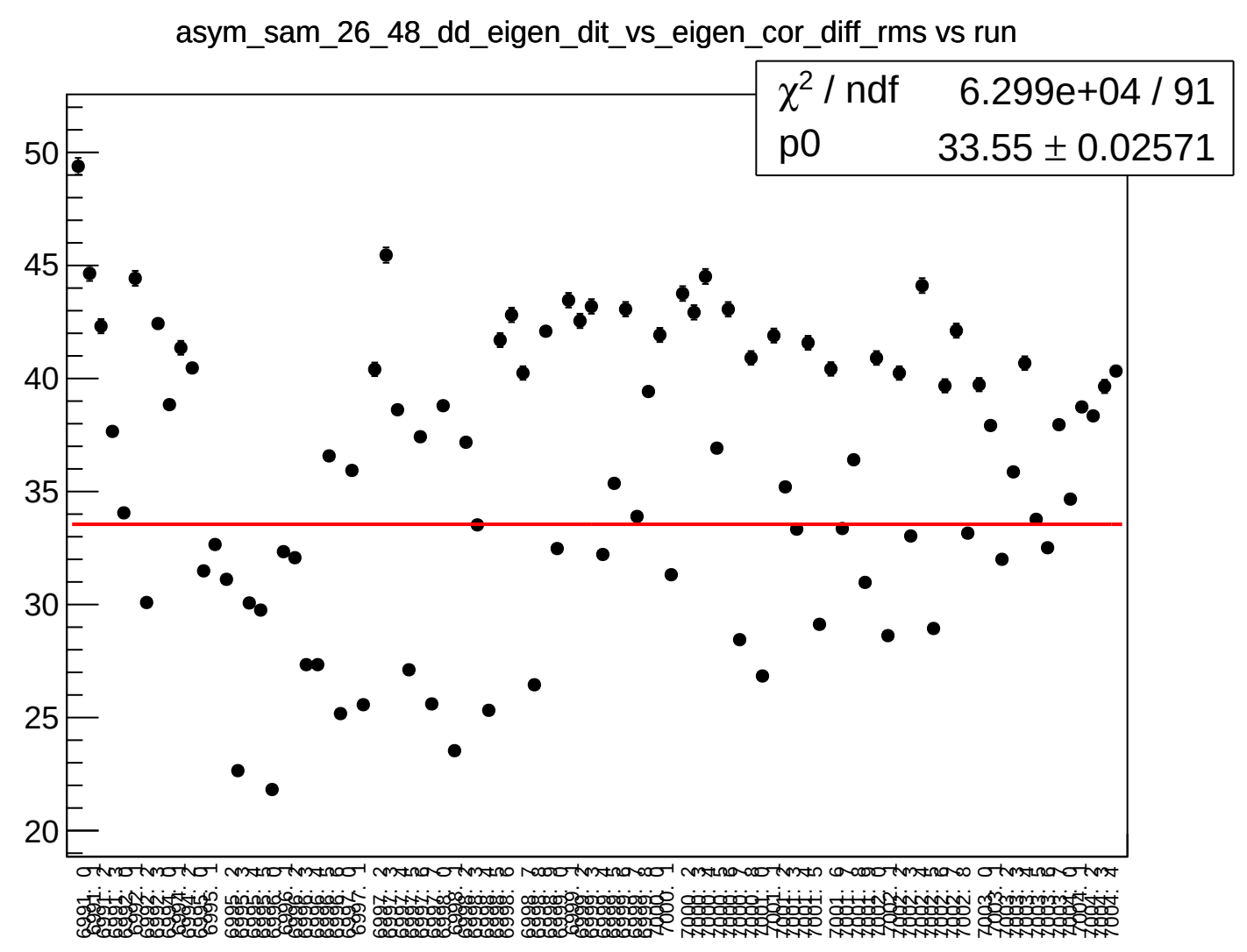

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.32 / 91
p0 −1.331e−06 ± 1.557e−06
pull
Entries 92
Mean −620.1
Std Dev 0
pull1D
Entries 92
Mean −0.006819
Std Dev 0.9963

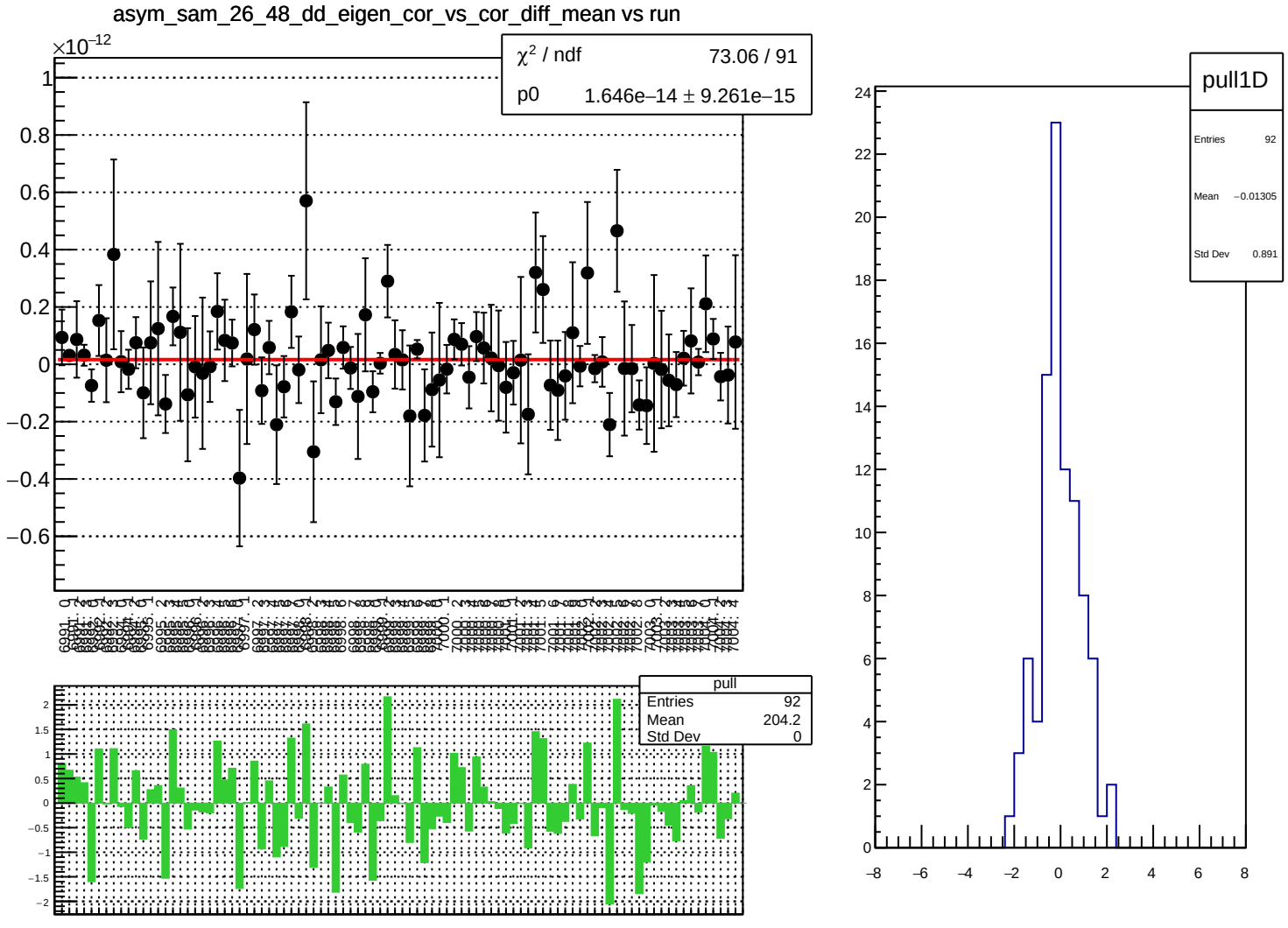

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.861e+04 / 91
p0 0.001455 ± 1.101e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

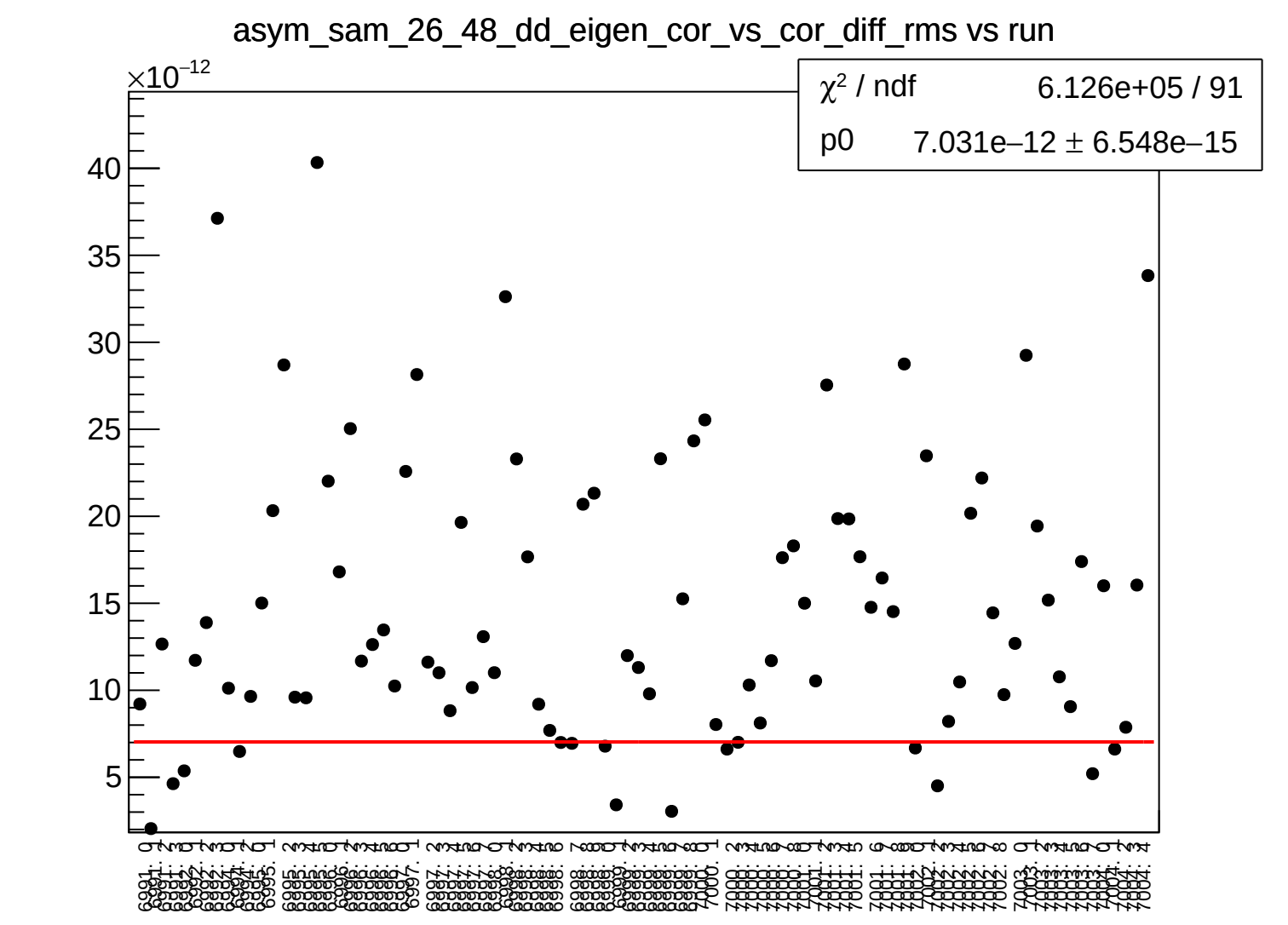

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.21 / 91
p0 −0.03682 ± 0.03637
pull
Entries 92
Mean 227.2
Std Dev 0
pull1D
Entries 92
Mean −0.01149
Std Dev 0.9567

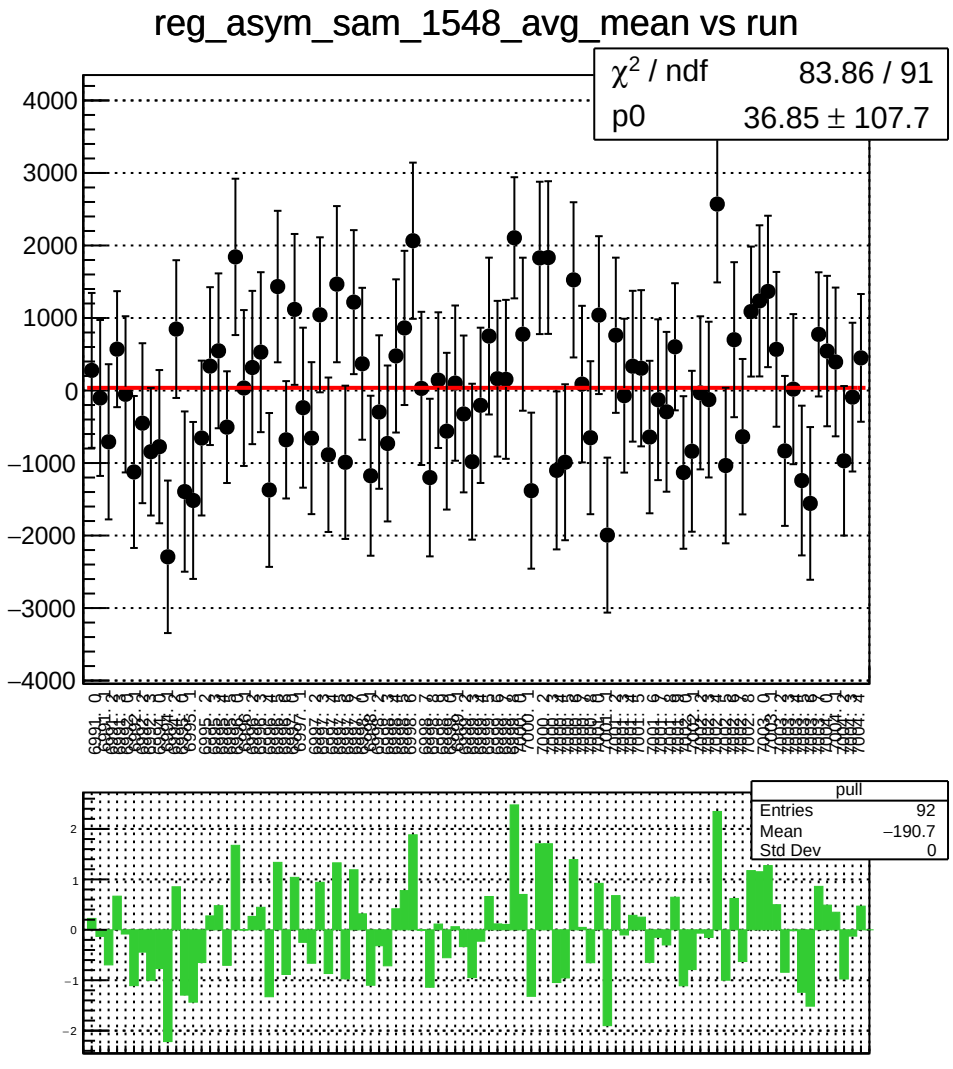

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.299e+04 / 91
p0 33.55 ± 0.02571
50
45
40
35
30
25
20

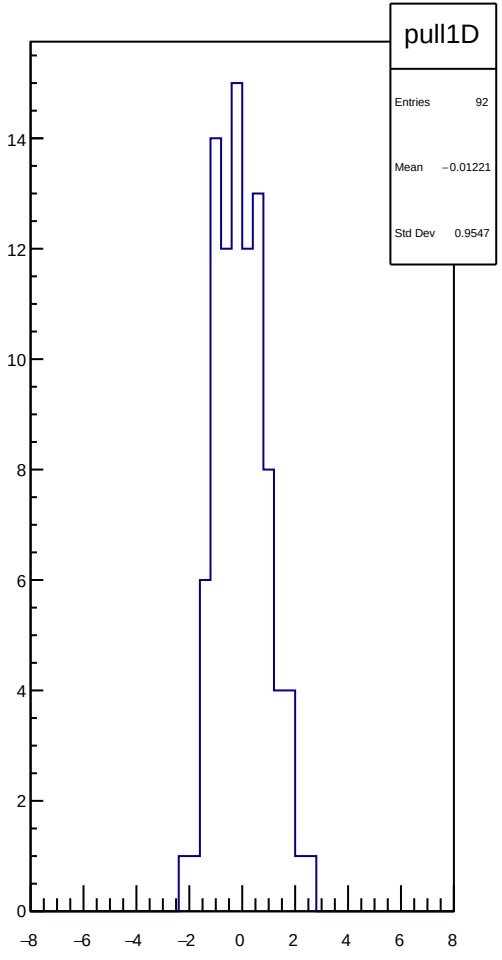

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.21 / 91
p0 −0.03682 ± 0.03637
pull
Entries 92
Mean 227.2
Std Dev 0
pull1D
Entries 92
Mean −0.01149
Std Dev 0.9567

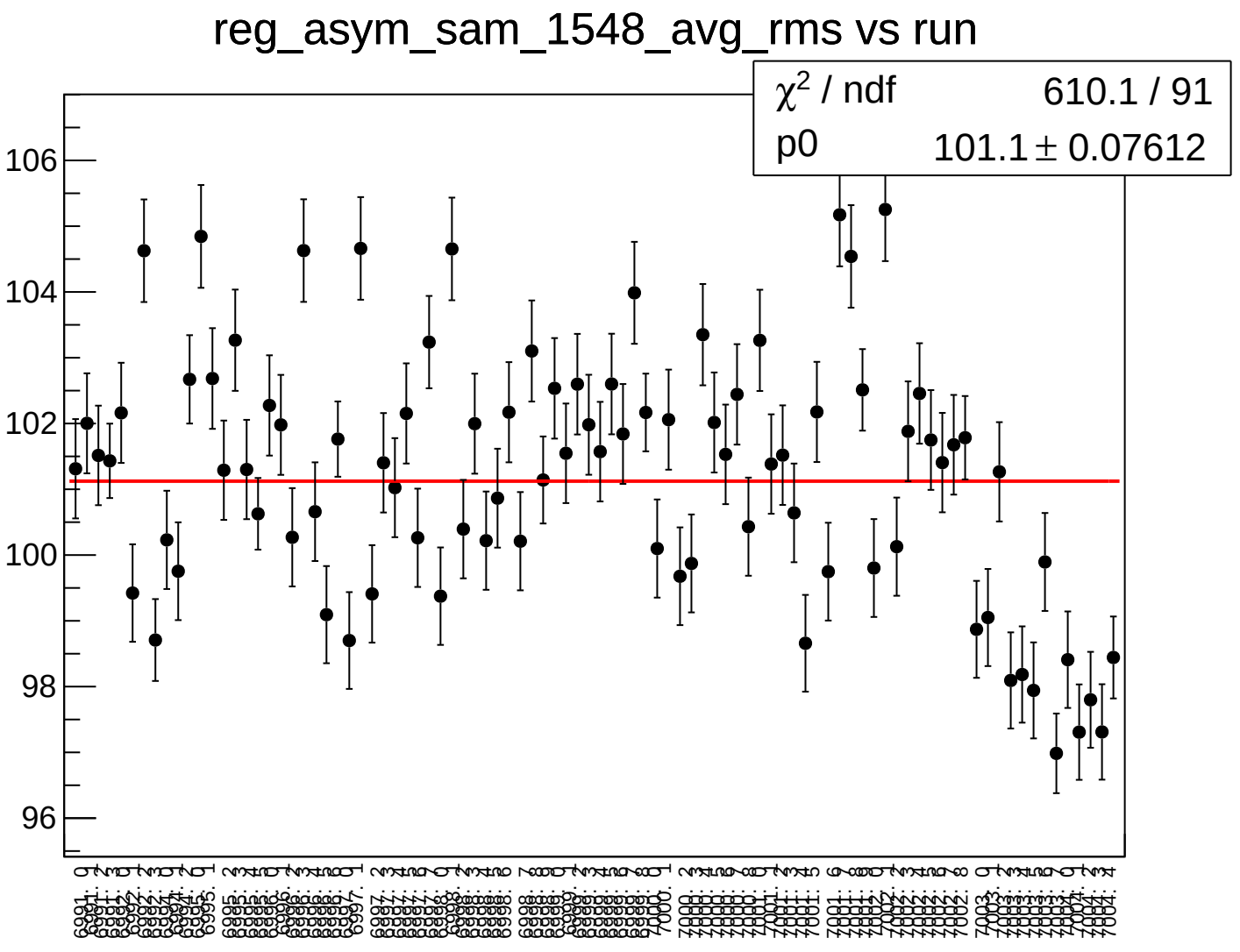

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.299e+04 / 91
p0 33.55 ± 0.02571
50
45
40
35
30
25
20

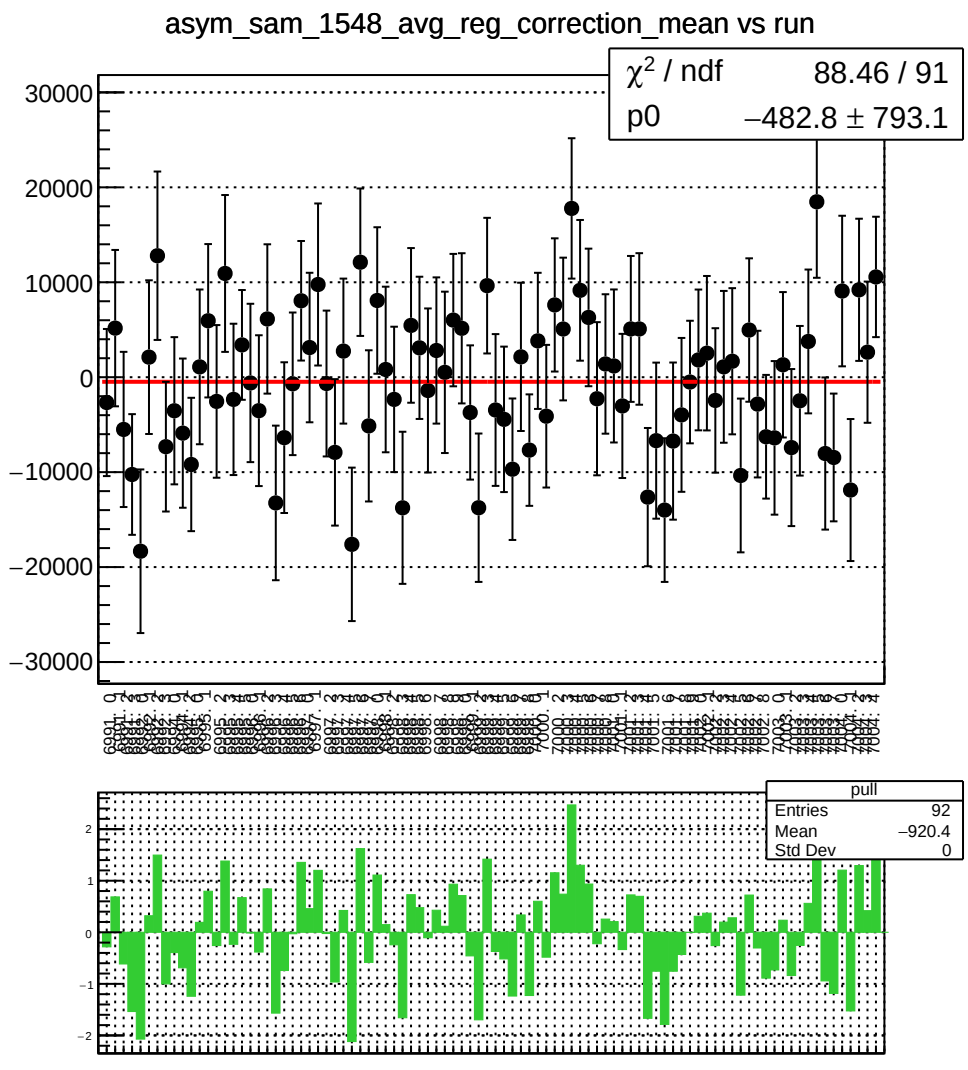

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.06 / 91
p0 1.646e−14 ± 9.261e−15
pull
Entries 92
Mean 204.2
Std Dev 0
pull1D
Entries 92
Mean −0.01305
Std Dev 0.891

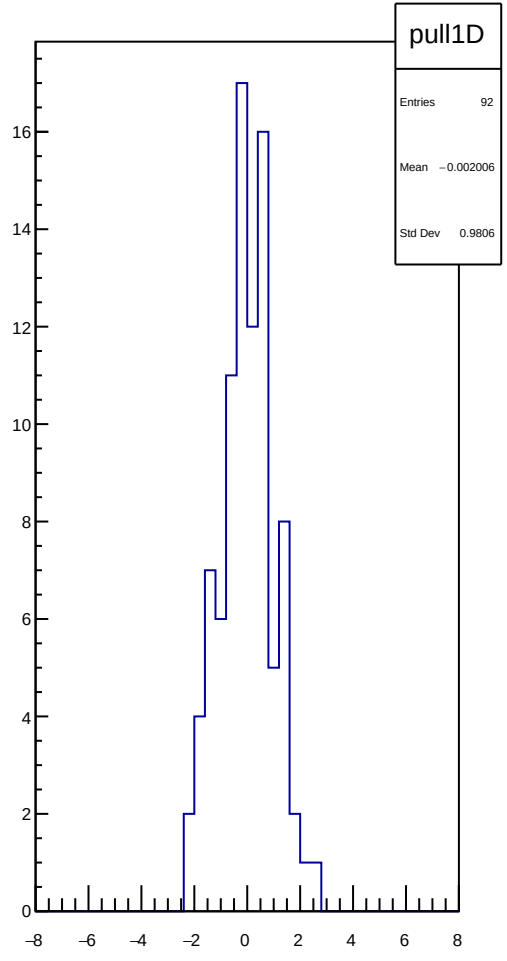

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.126e+05 / 91
p0 7.031e−12 ± 6.548e−15
40
35
30
25
20
15
10
5

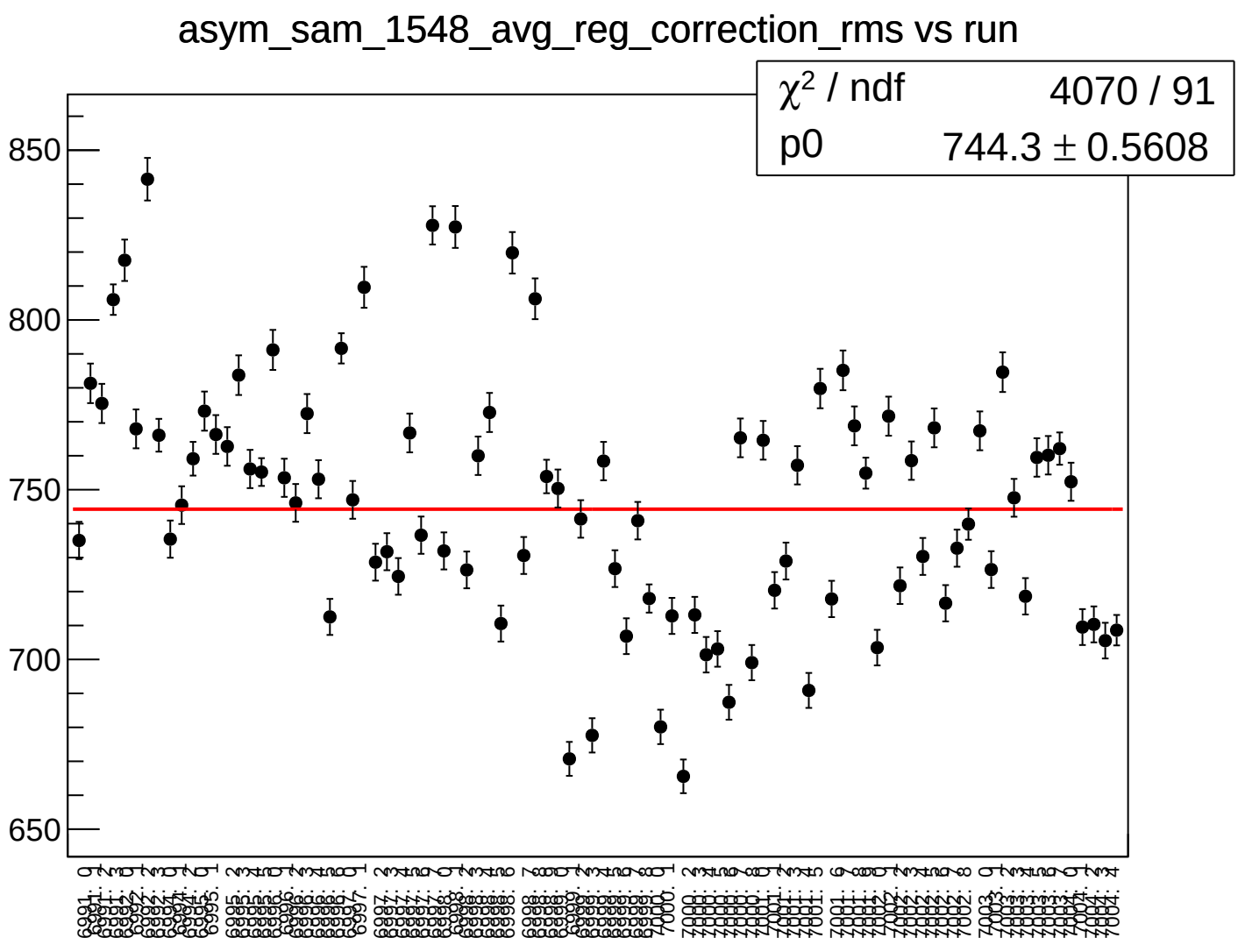

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 83.86 / 91
p0 36.85 ± 107.7
pull
Entries 92
Mean −190.7
Std Dev 0

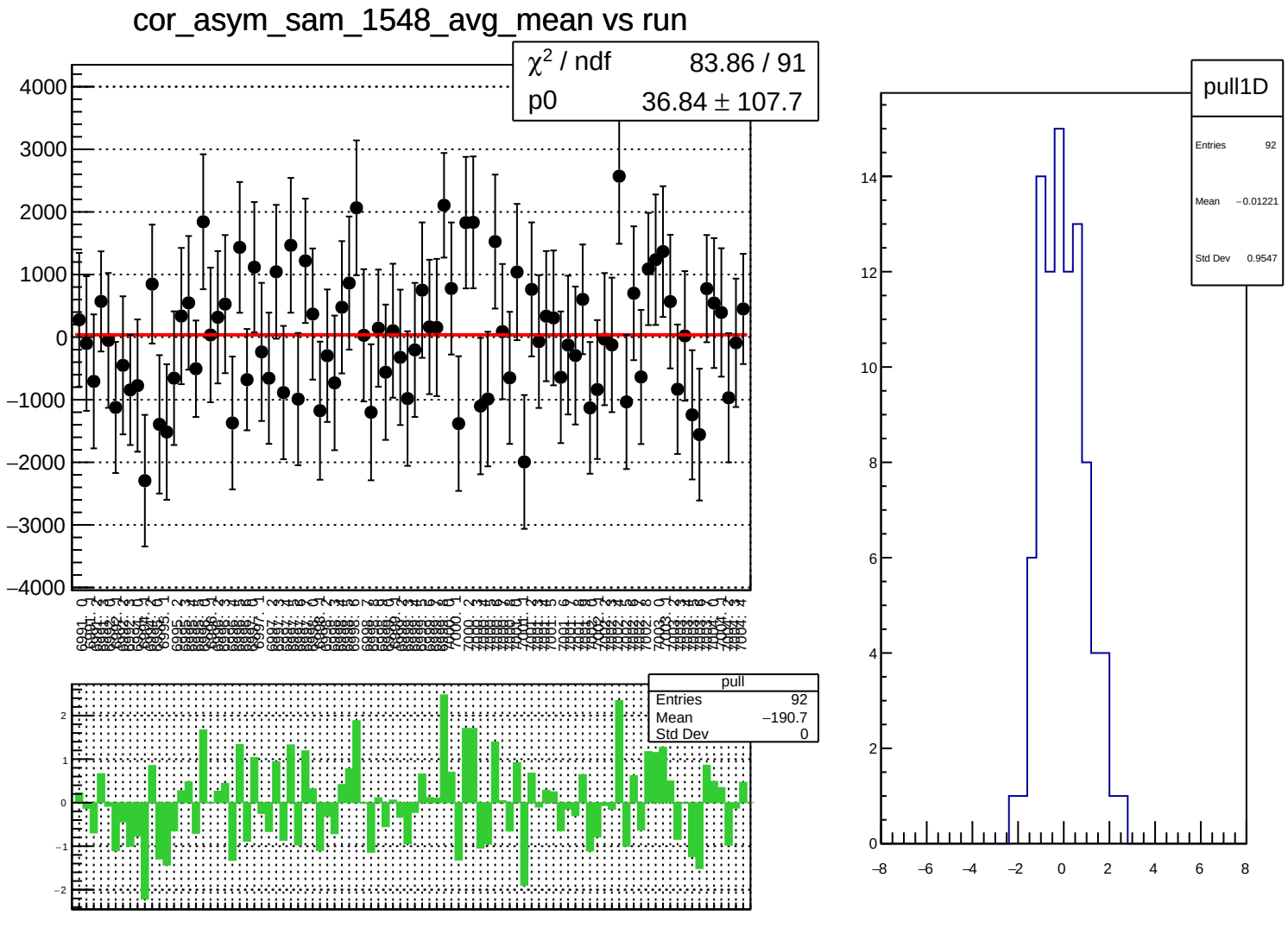

pull1D
Entries 92
Mean −0.01221
Std Dev 0.9547

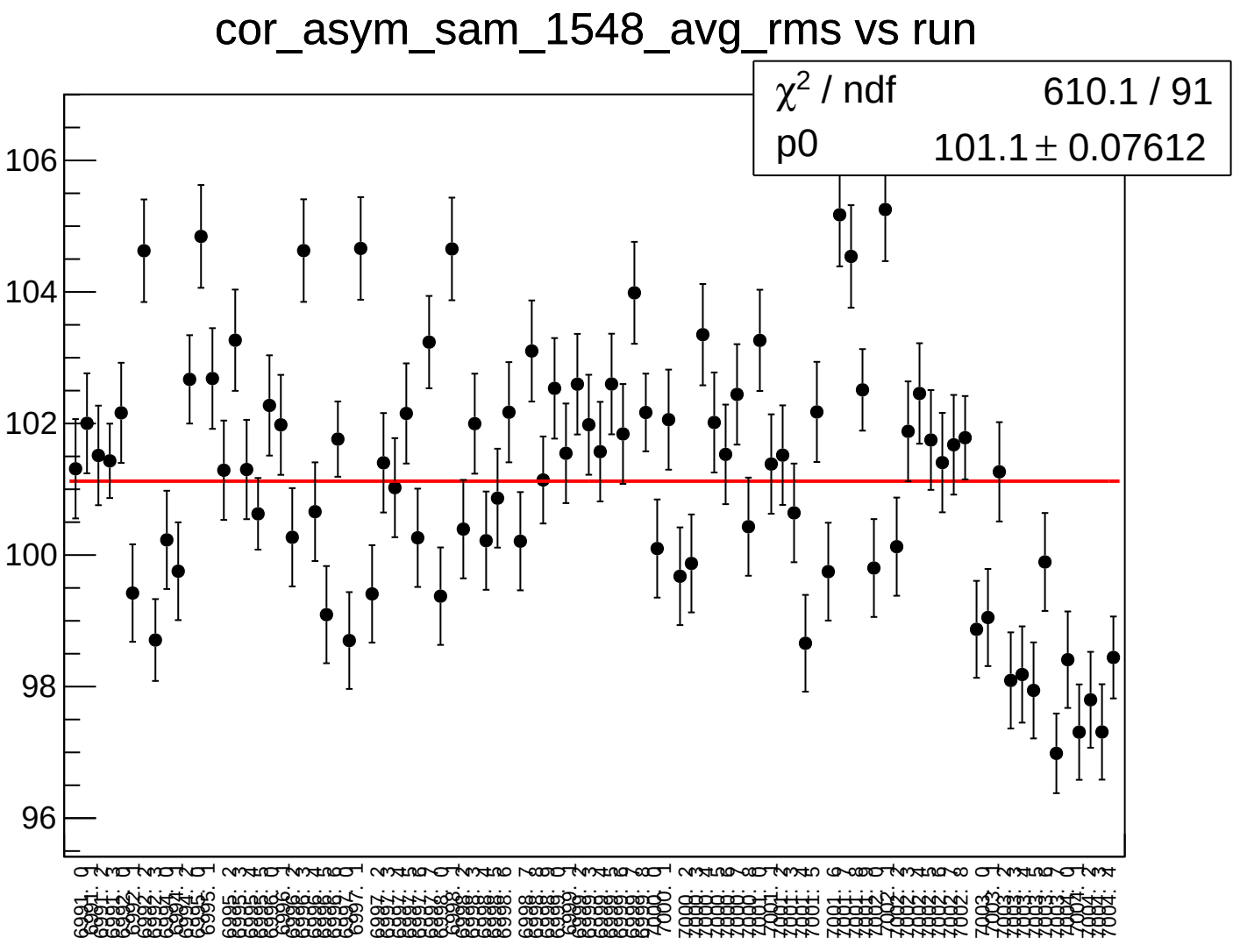

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 610.1 / 91
p0 101.1 ± 0.07612
106
104
102
100
98
96

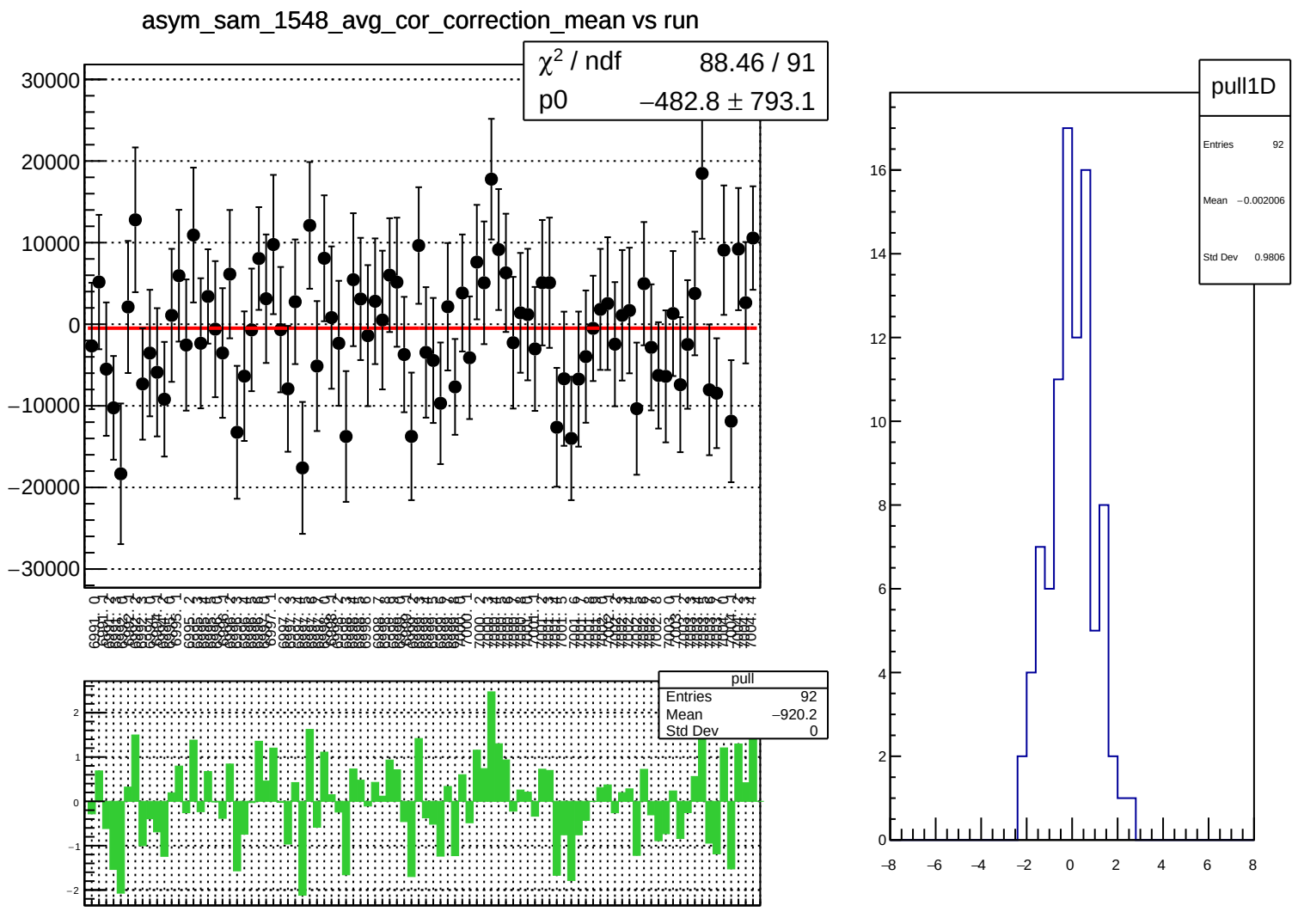

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 88.46 / 91
p0 −482.8 ± 793.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −920.4
Std Dev 0
2
1
0
−1
−2

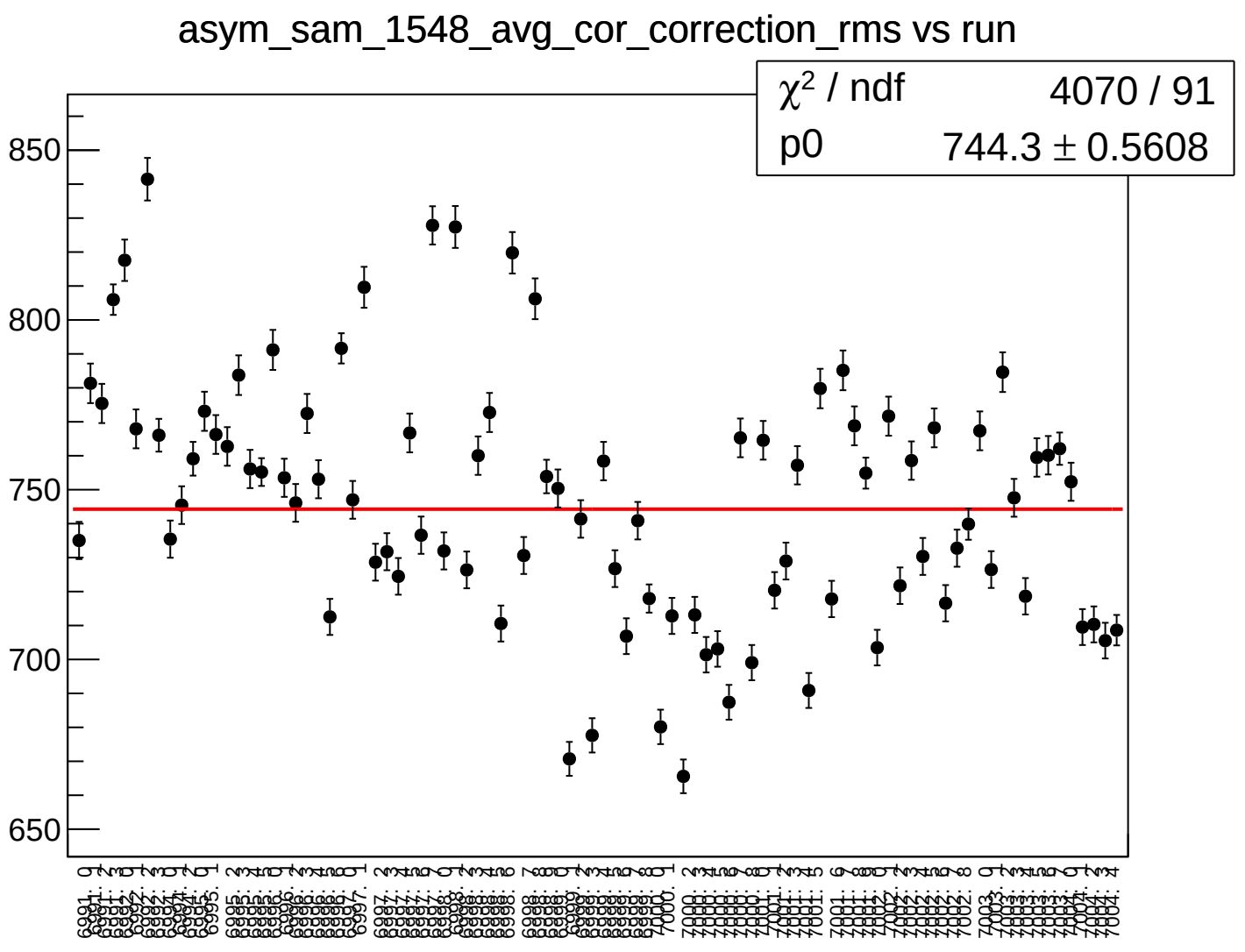

pull1D
Entries 92
Mean −0.002006
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

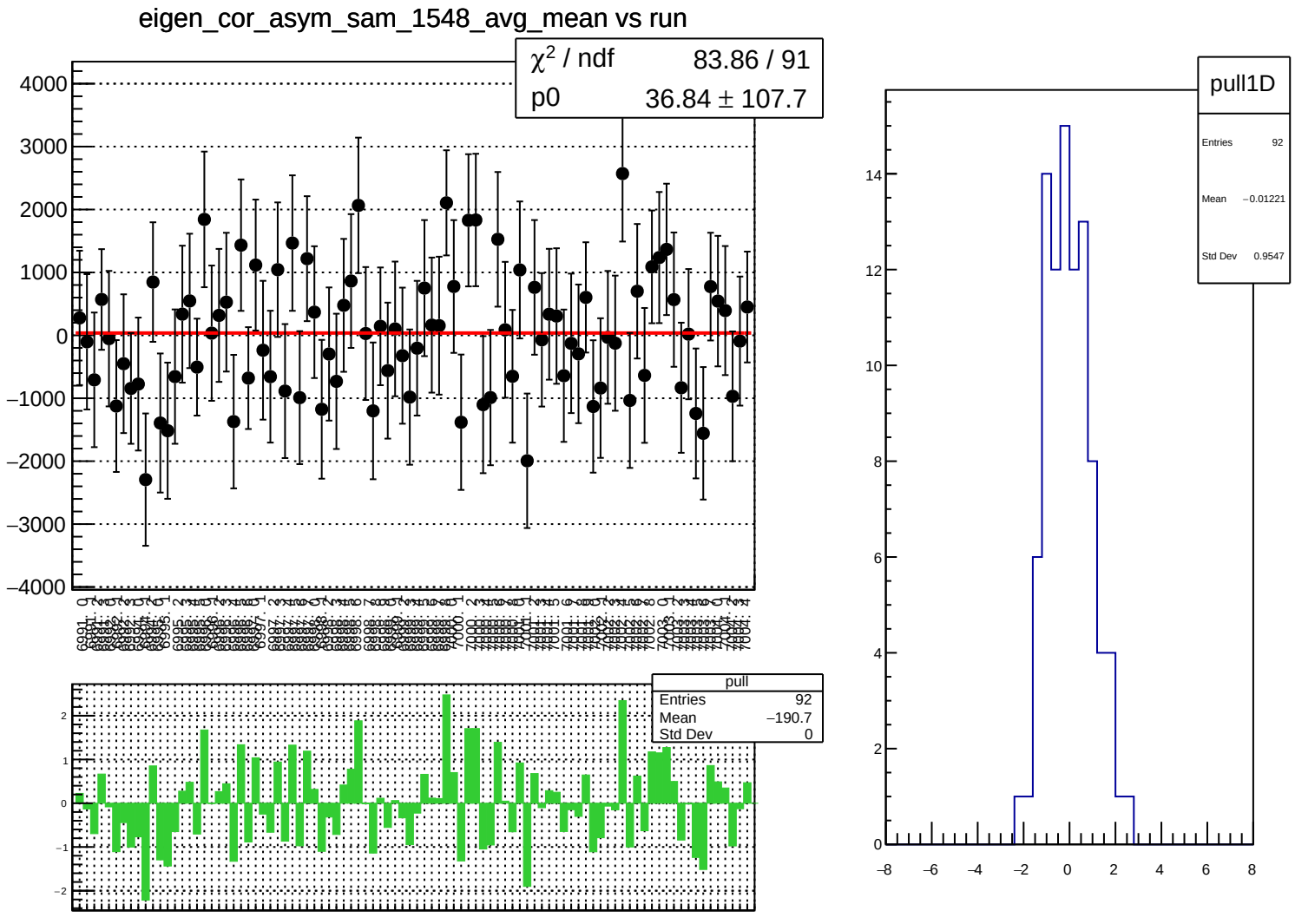

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 4070 / 91
p0 744.3 ± 0.5608
850
800
750
700
650

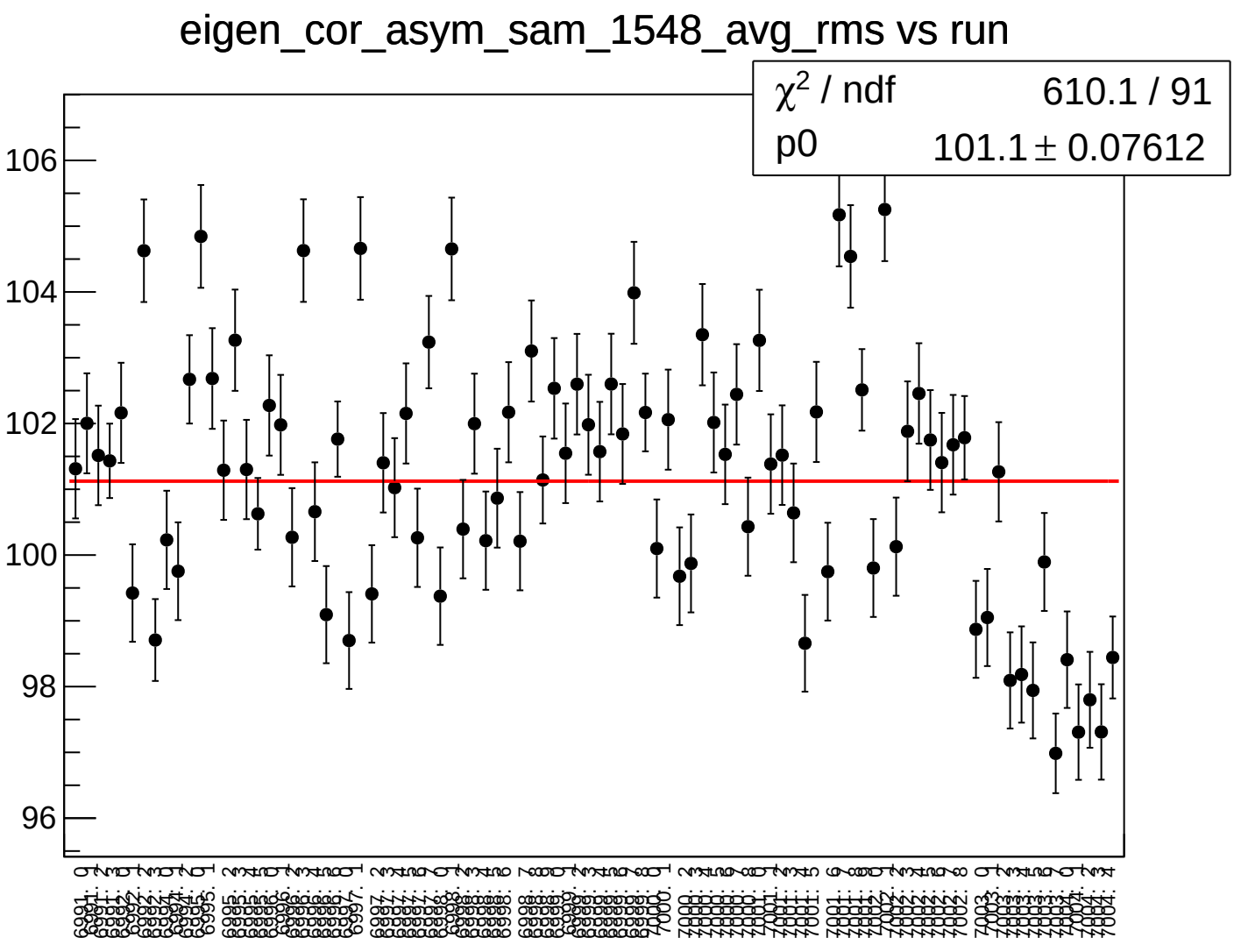

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 83.86 / 91
p0 36.84 ± 107.7
pull
Entries 92
Mean −190.7
Std Dev 0
pull1D
Entries 92
Mean −0.01221
Std Dev 0.9547

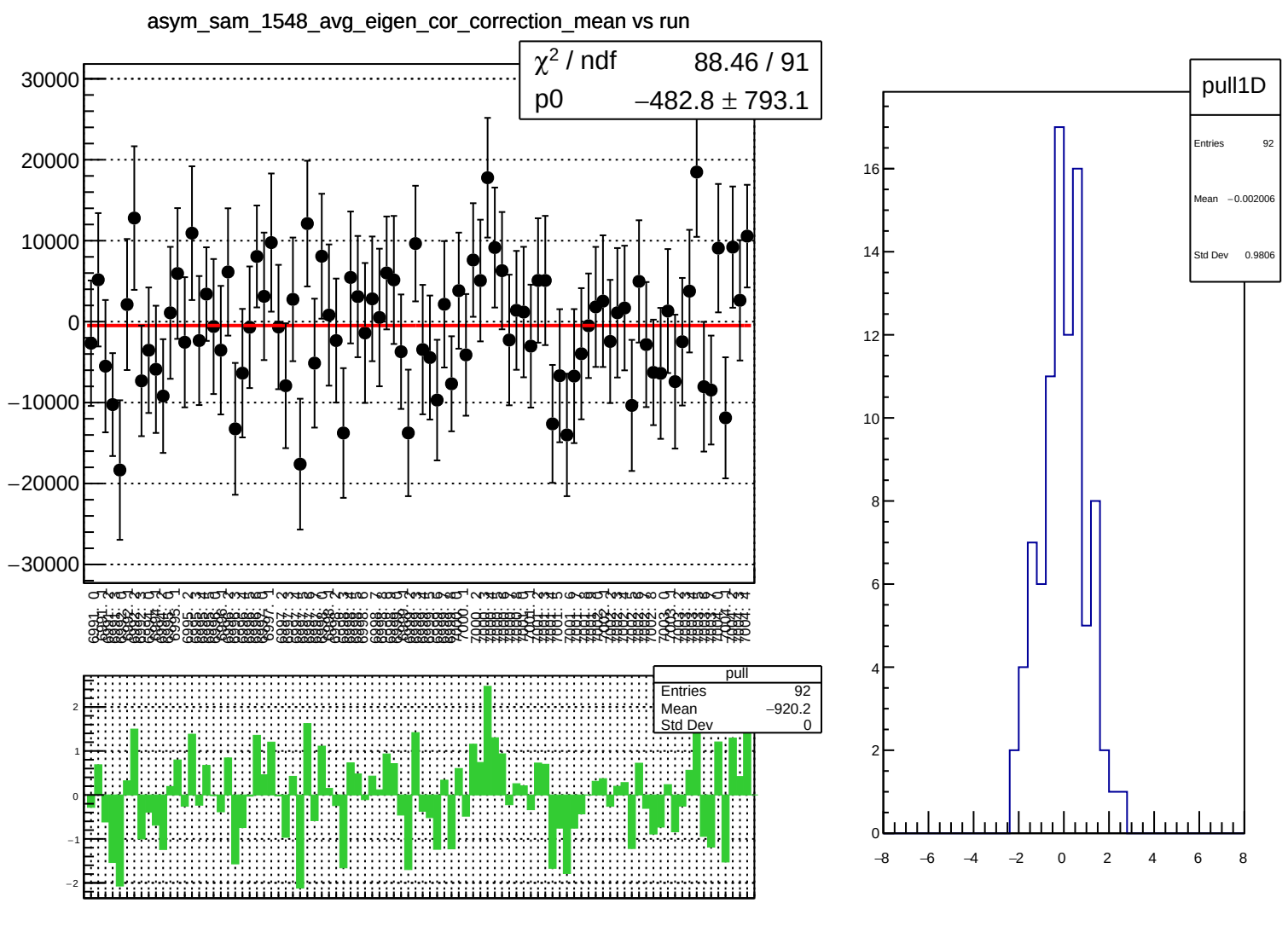

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 610.1 / 91
p0 101.1 ± 0.07612
106
104
102
100
98
96

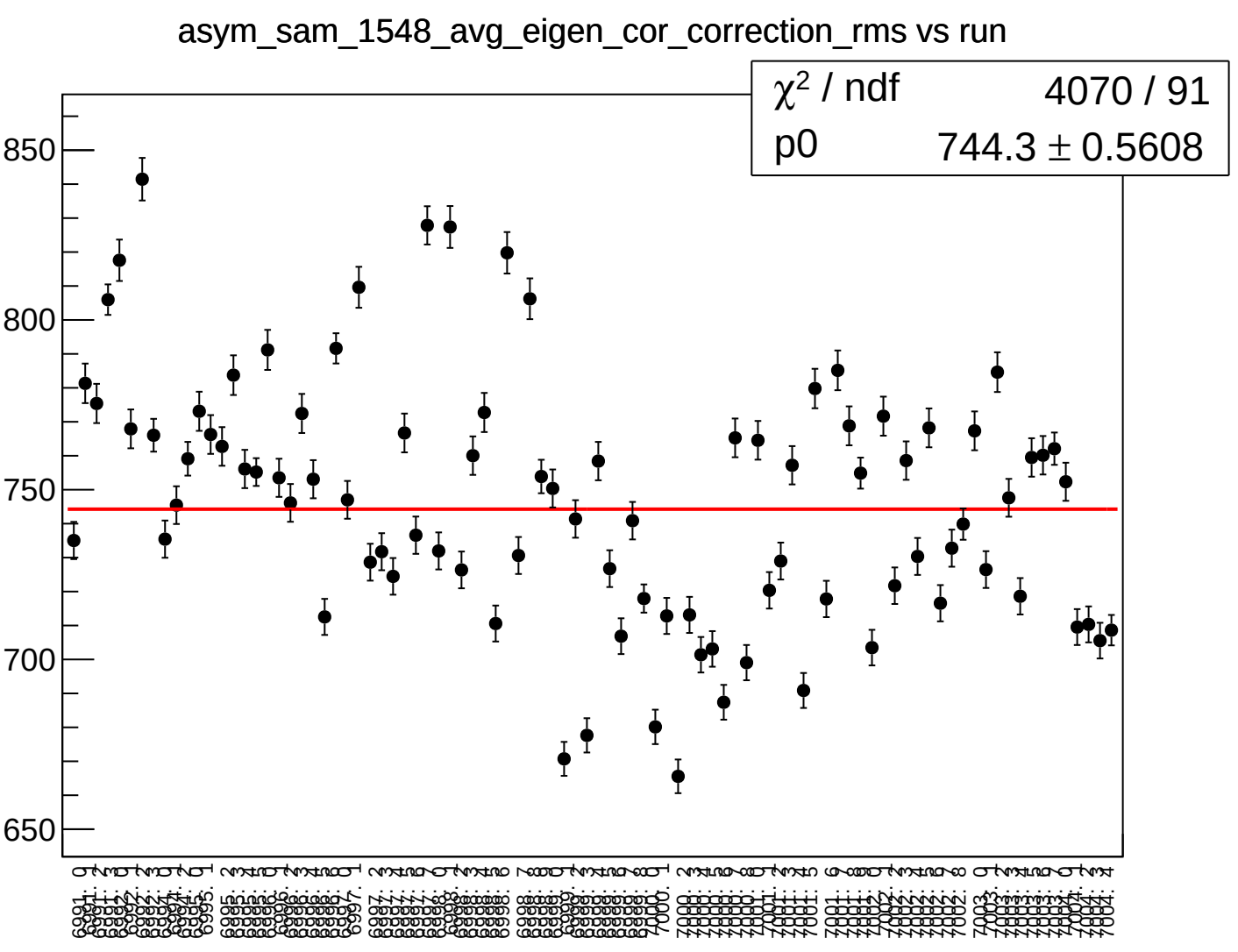

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 88.46 / 91
p0 −482.8 ± 793.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −920.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002006
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

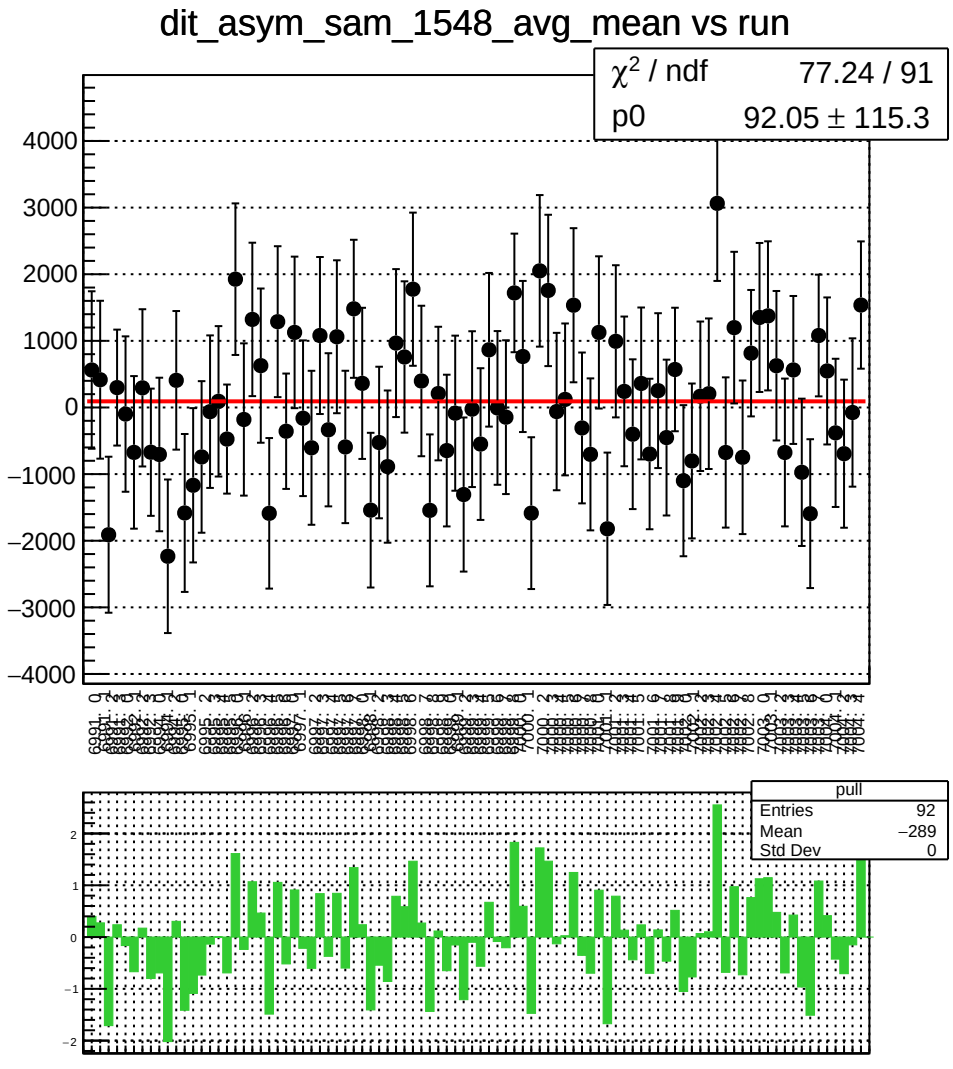

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 4070 / 91
p0 744.3 ± 0.5608
850
800
750
700
650

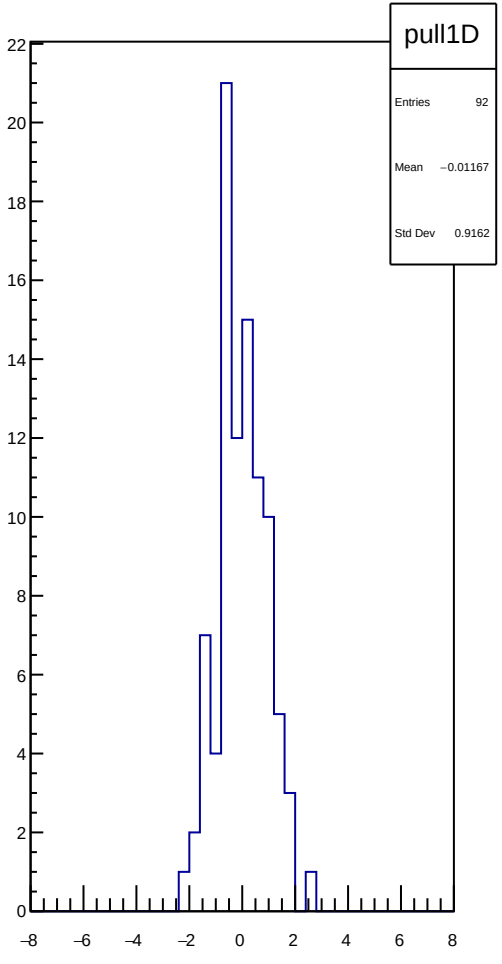

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 83.86 / 91
p0 36.84 ± 107.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −190.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01221
Std Dev 0.9547
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

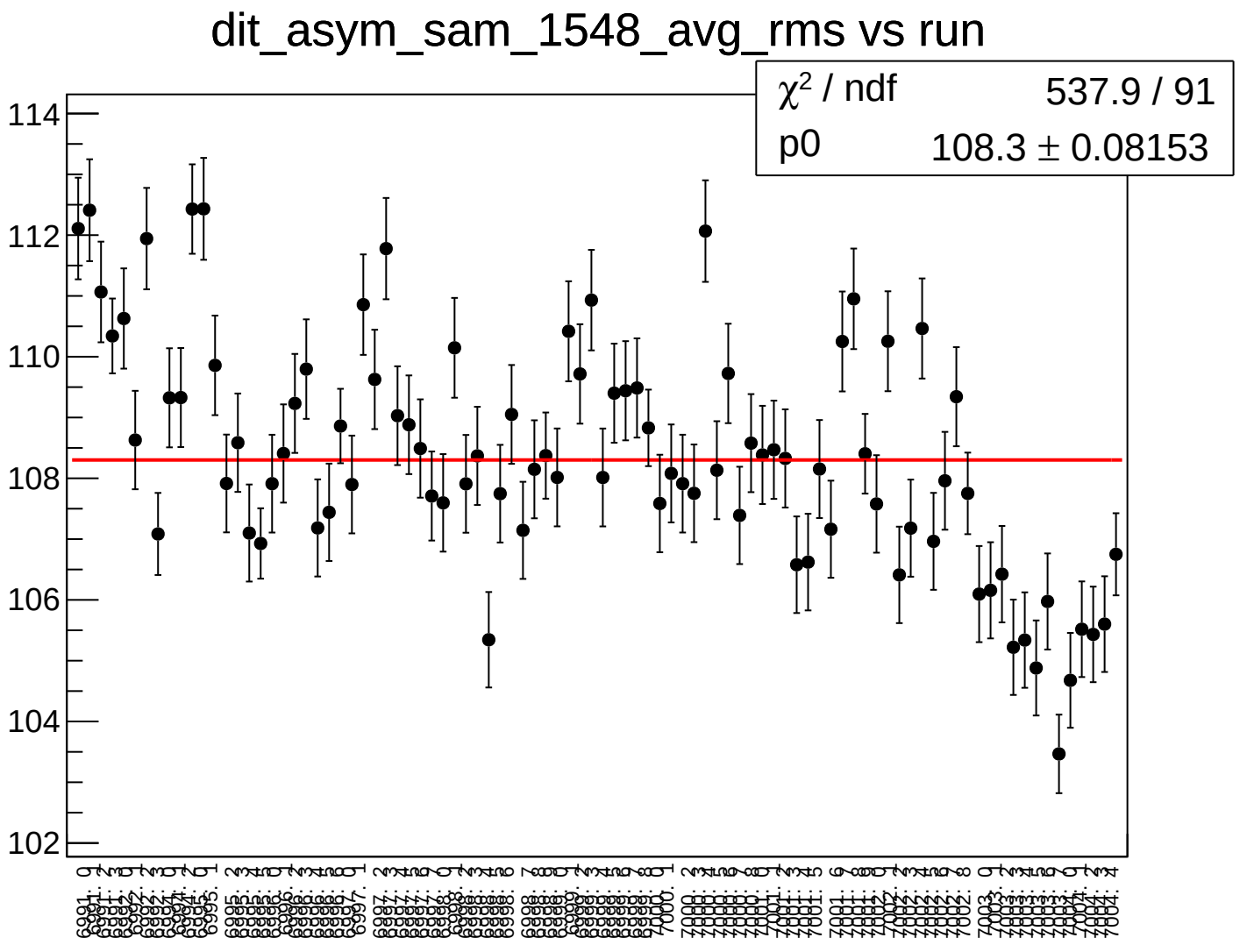

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 610.1 / 91
p0 101.1 ± 0.07612
106
104
102
100
98
96

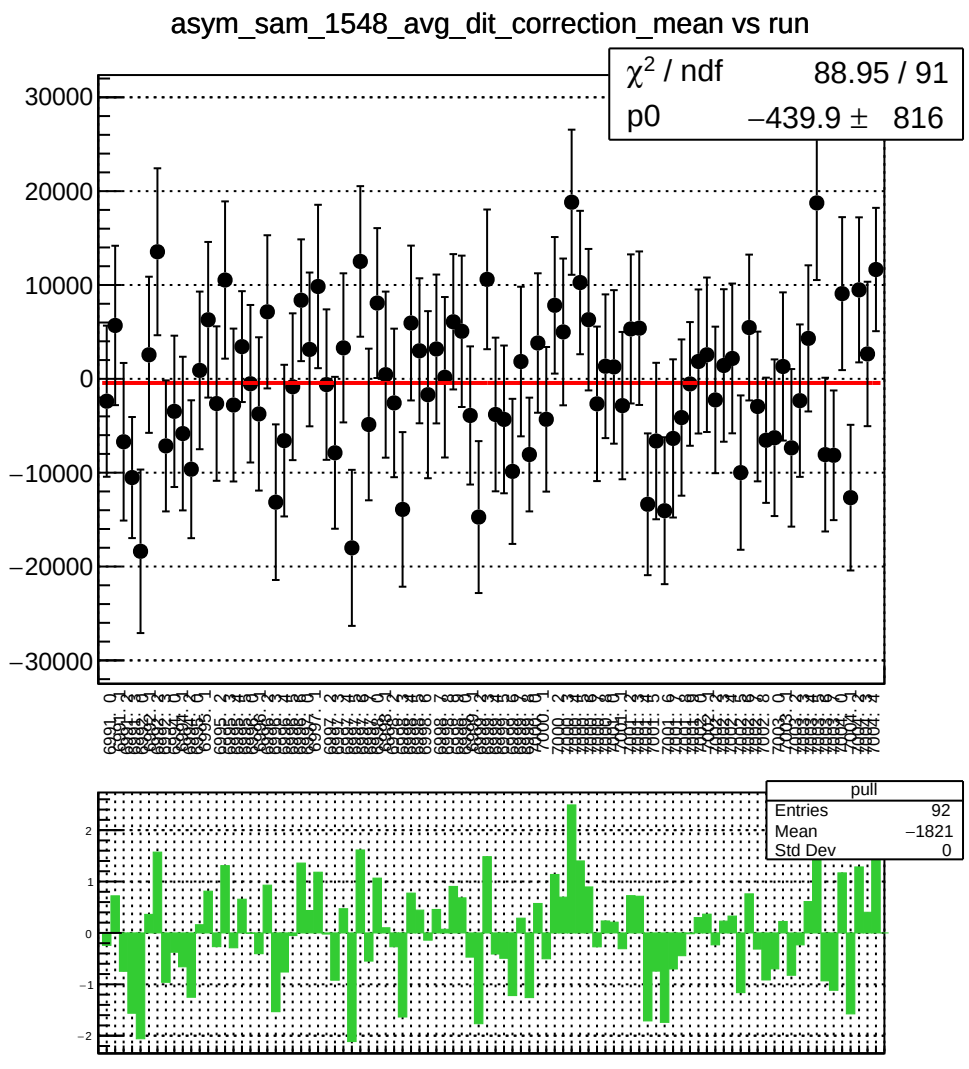

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.46 / 91
p0 −482.8 ± 793.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −920.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002006
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

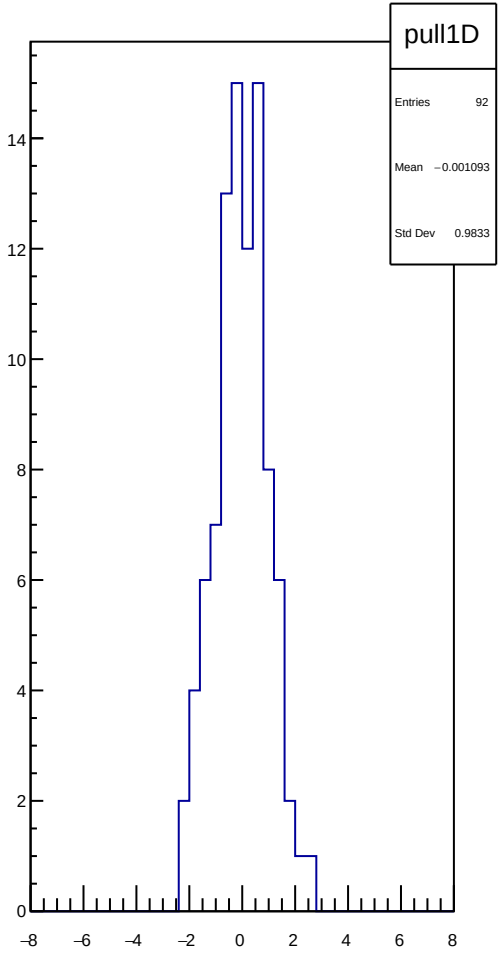

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 4070 / 91
p0 744.3 ± 0.5608
850
800
750
700
650

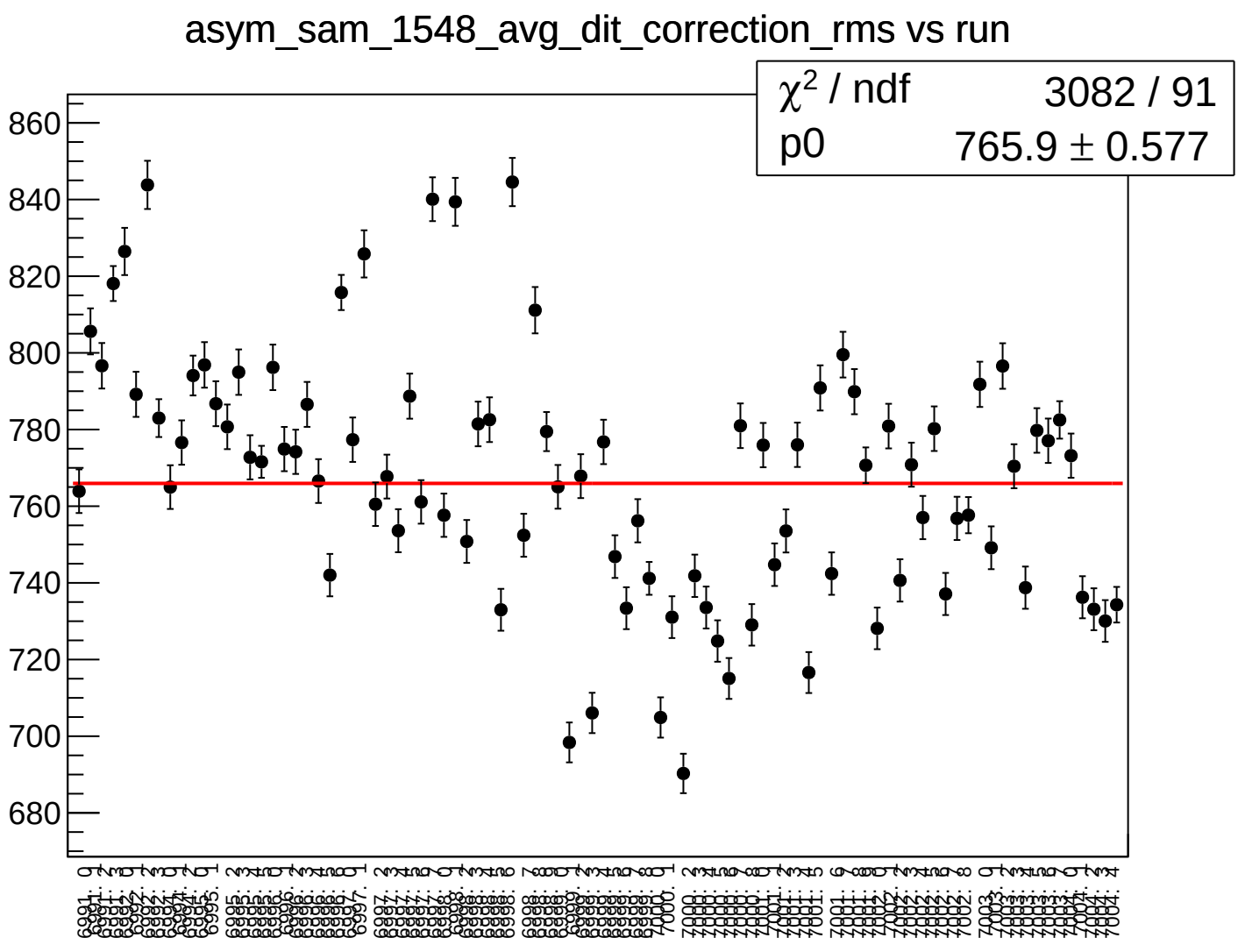

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 77.24 / 91
p0 92.05 ± 115.3
pull
Entries 92
Mean −289
Std Dev 0

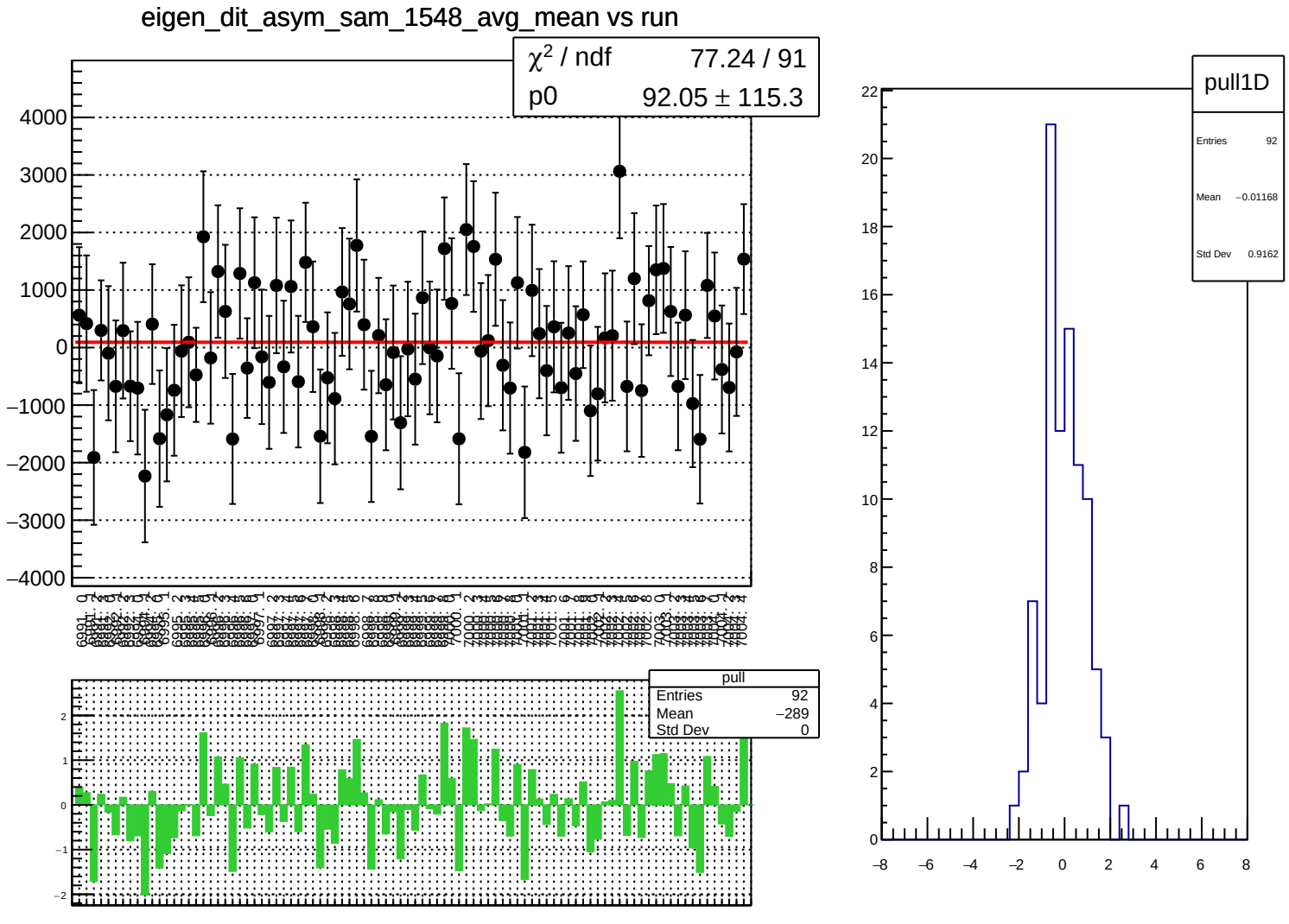

pull1D
Entries 92
Mean −0.01167
Std Dev 0.9162

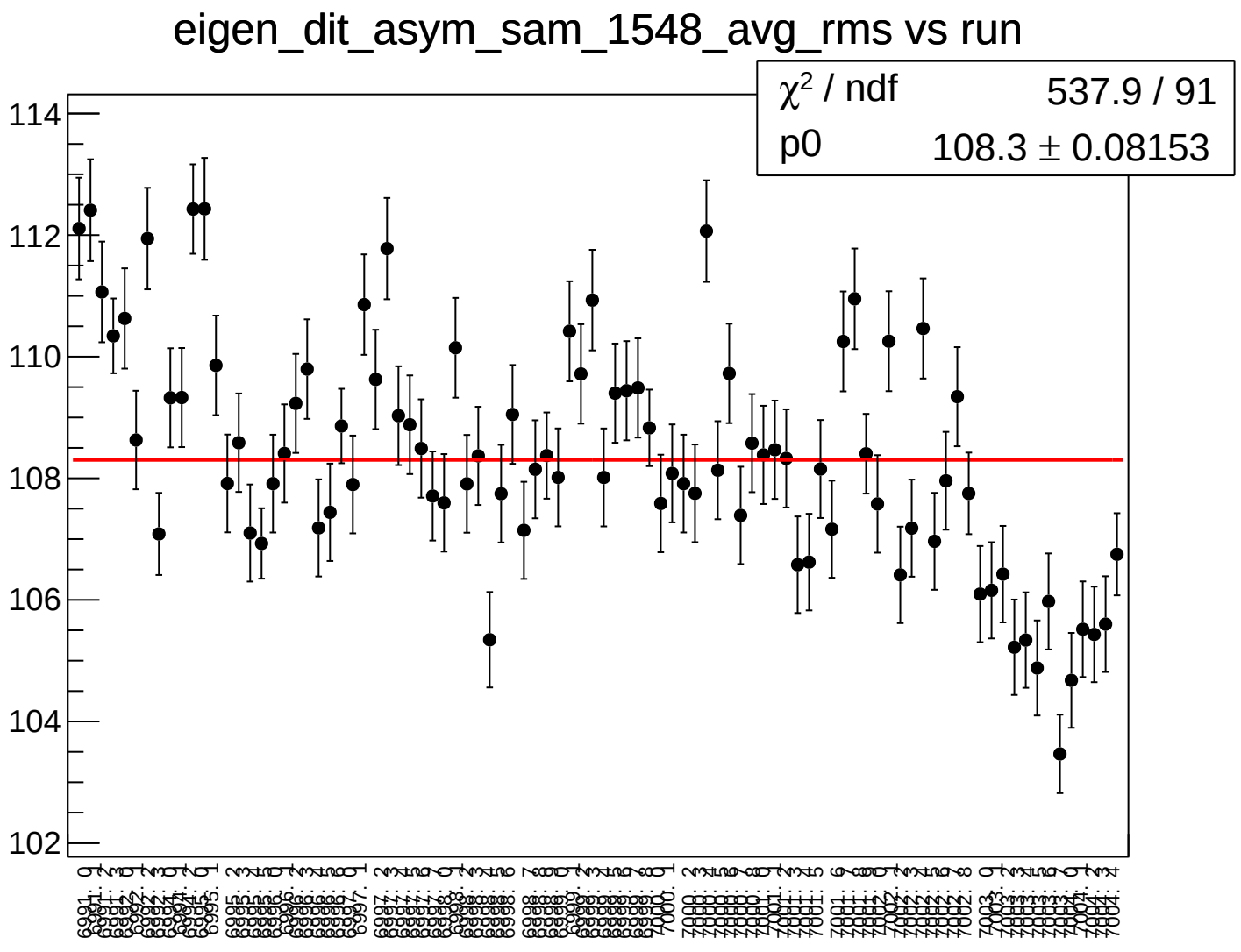

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 537.9 / 91
p0 108.3 ± 0.08153
114
112
110
108
106
104
102


asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 88.95 / 91
p0 −439.9 ± 816
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1821
Std Dev 0
2
1
0
−1
−2

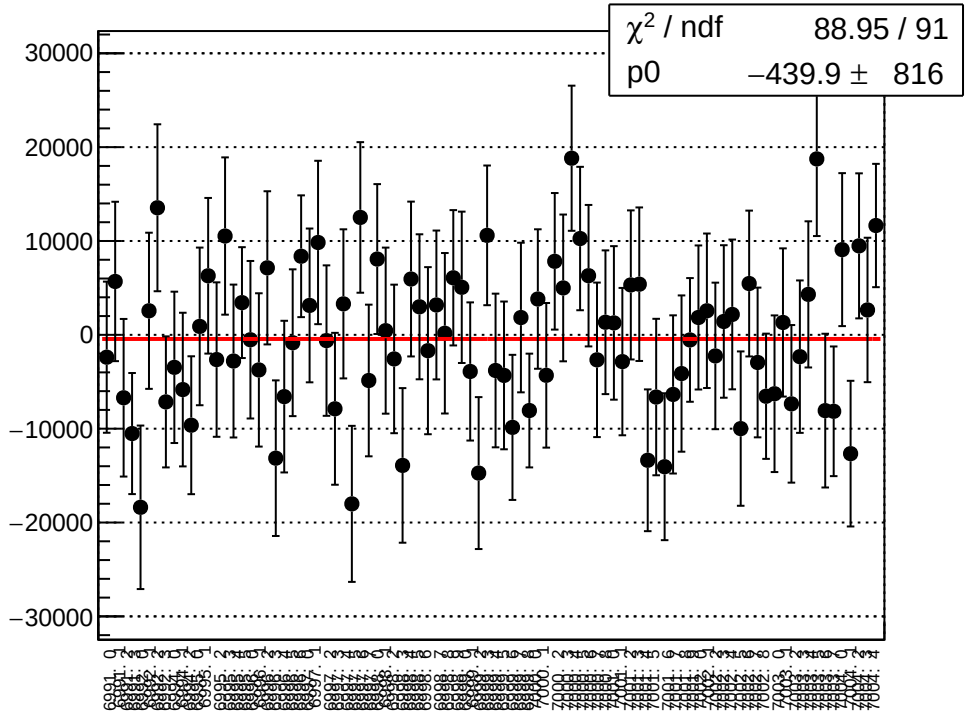

pull1D
Entries 92
Mean −0.001093
Std Dev 0.9833
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

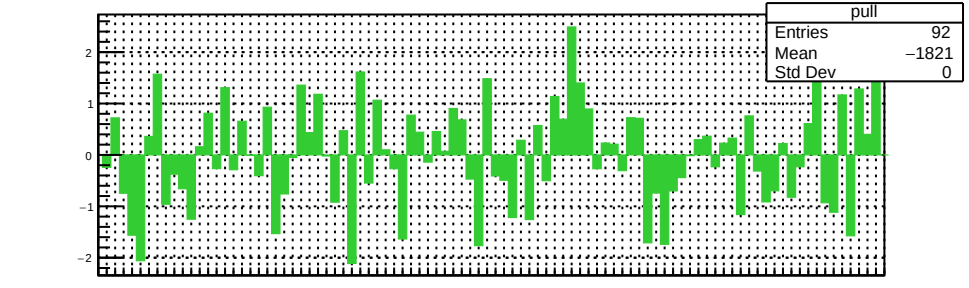

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 3082 / 91
p0 765.9 ± 0.577
860
840
820
800
780
760
740
720
700
680

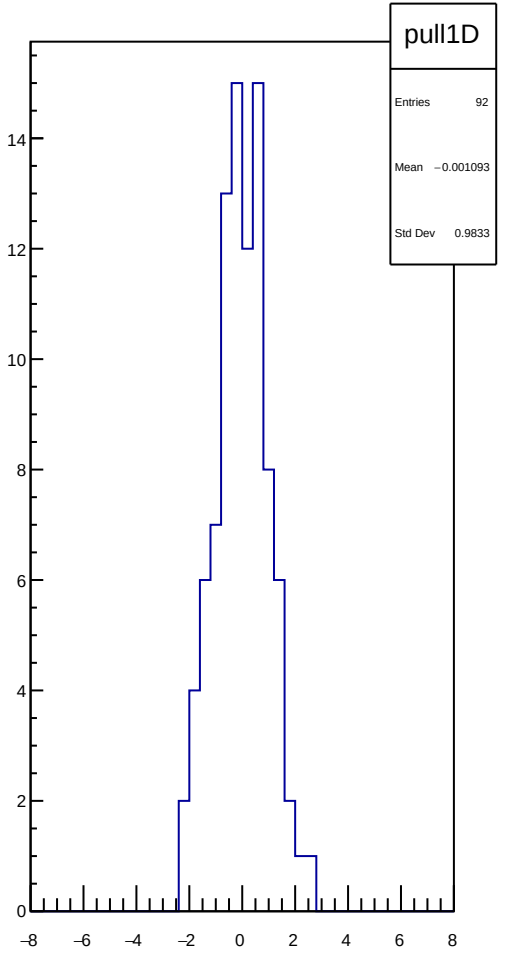

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 77.24 / 91
p0 92.05 ± 115.3
pull
Entries 92
Mean −289
Std Dev 0
pull1D
Entries 92
Mean −0.01168
Std Dev 0.9162

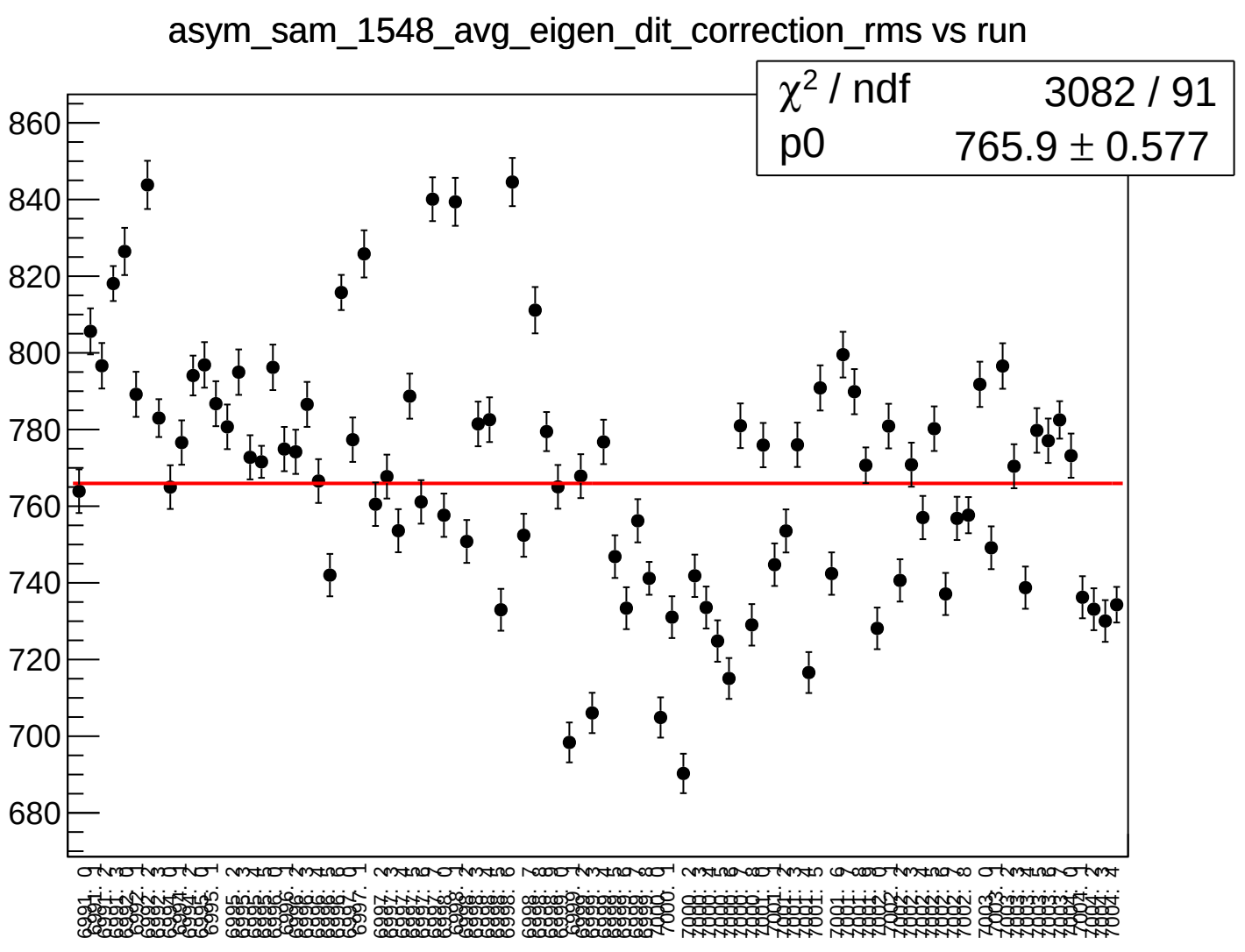

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 537.9 / 91
p0 108.3 ± 0.08153
114
112
110
108
106
104
102

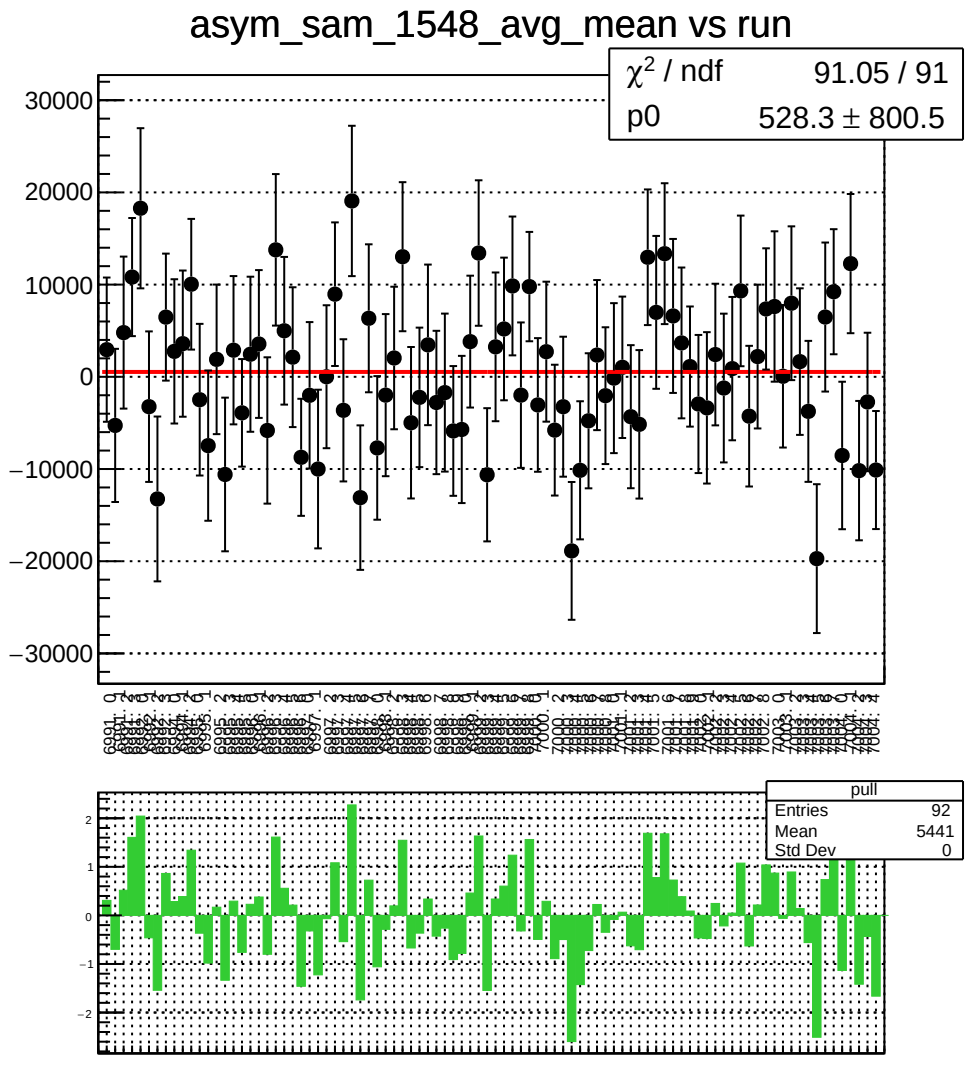
asym_sam_1548_avg_eigen_dit_correction_mean vs run

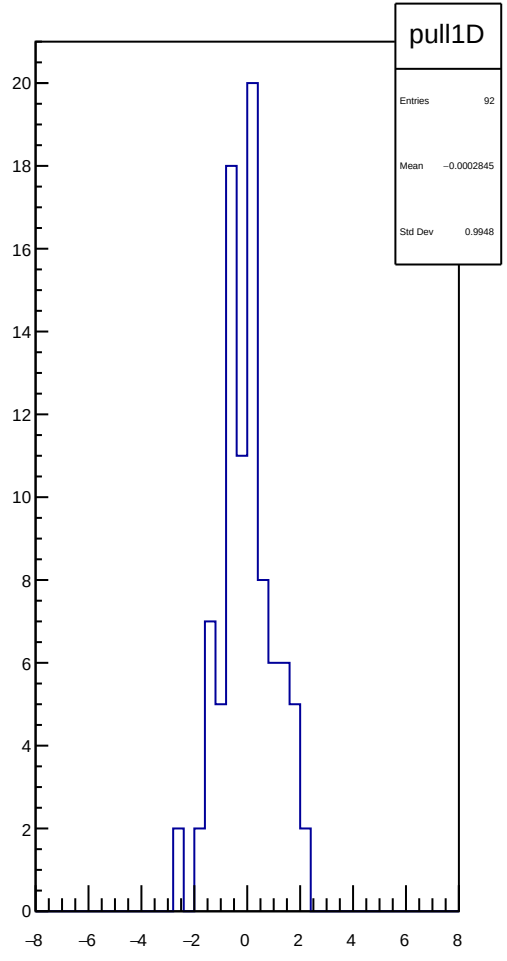


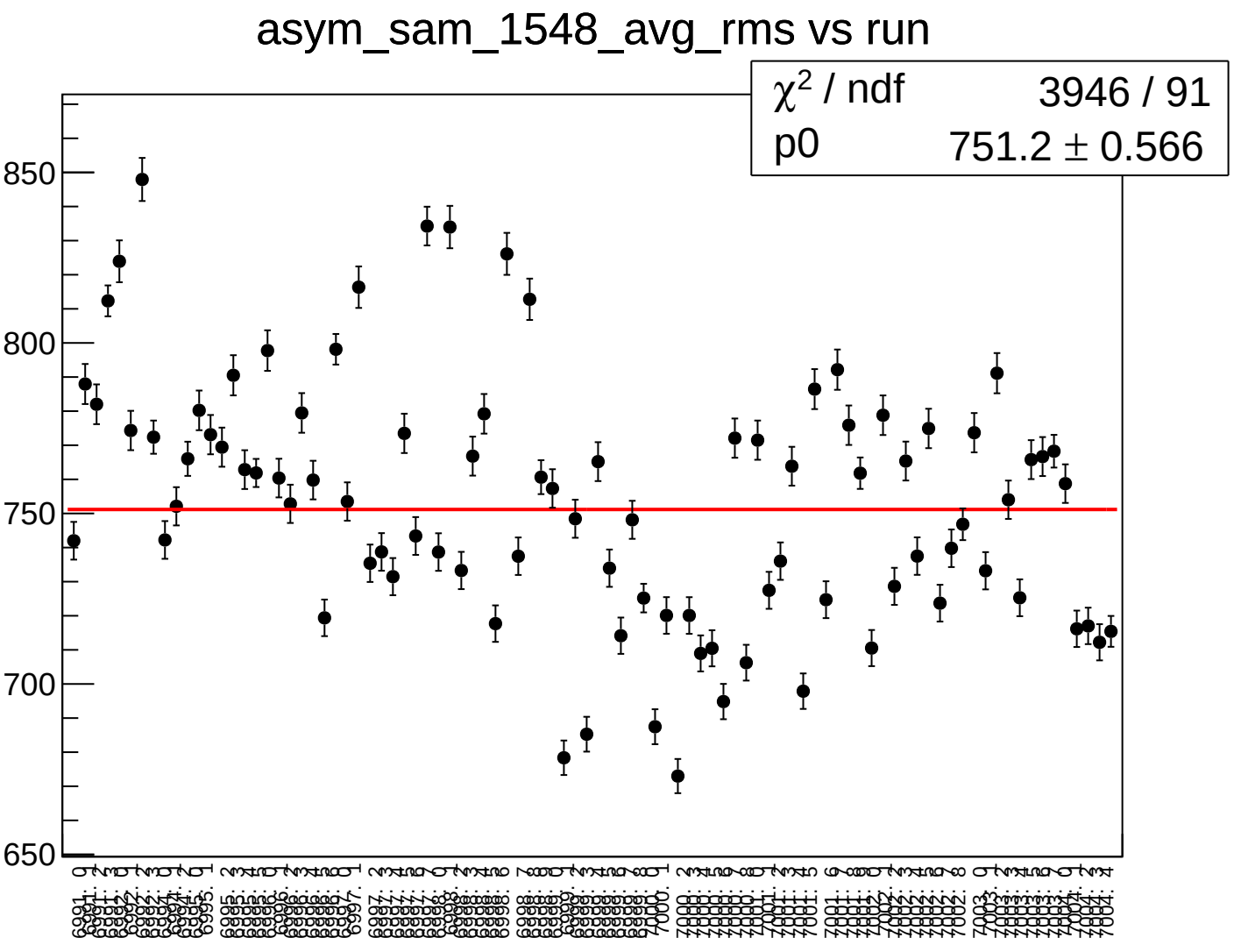


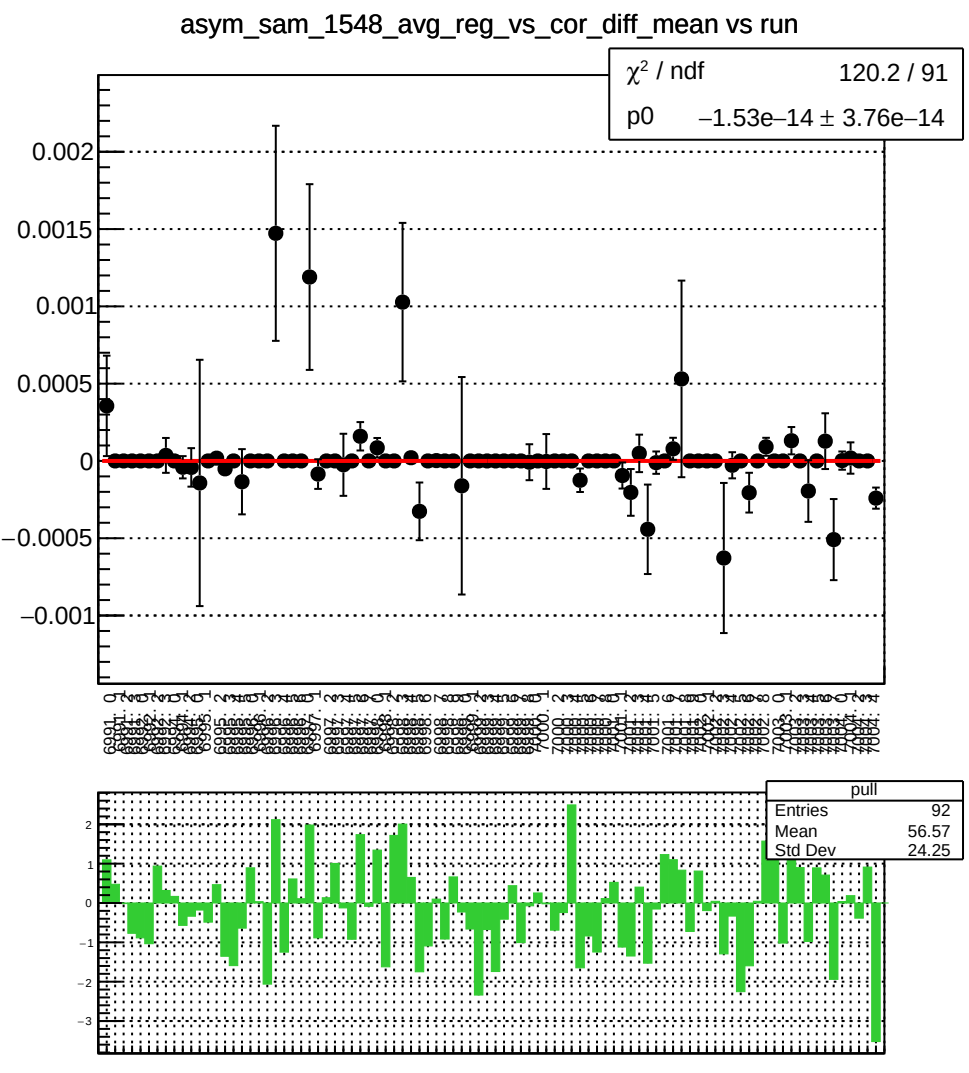


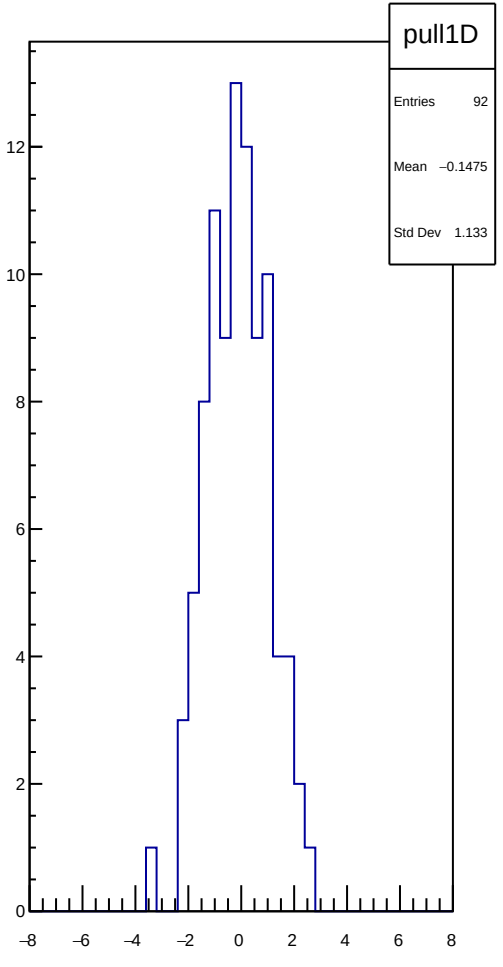

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 3082 / 91
p0 765.9 ± 0.577
860
840
820
800
780
760
740
720
700
680

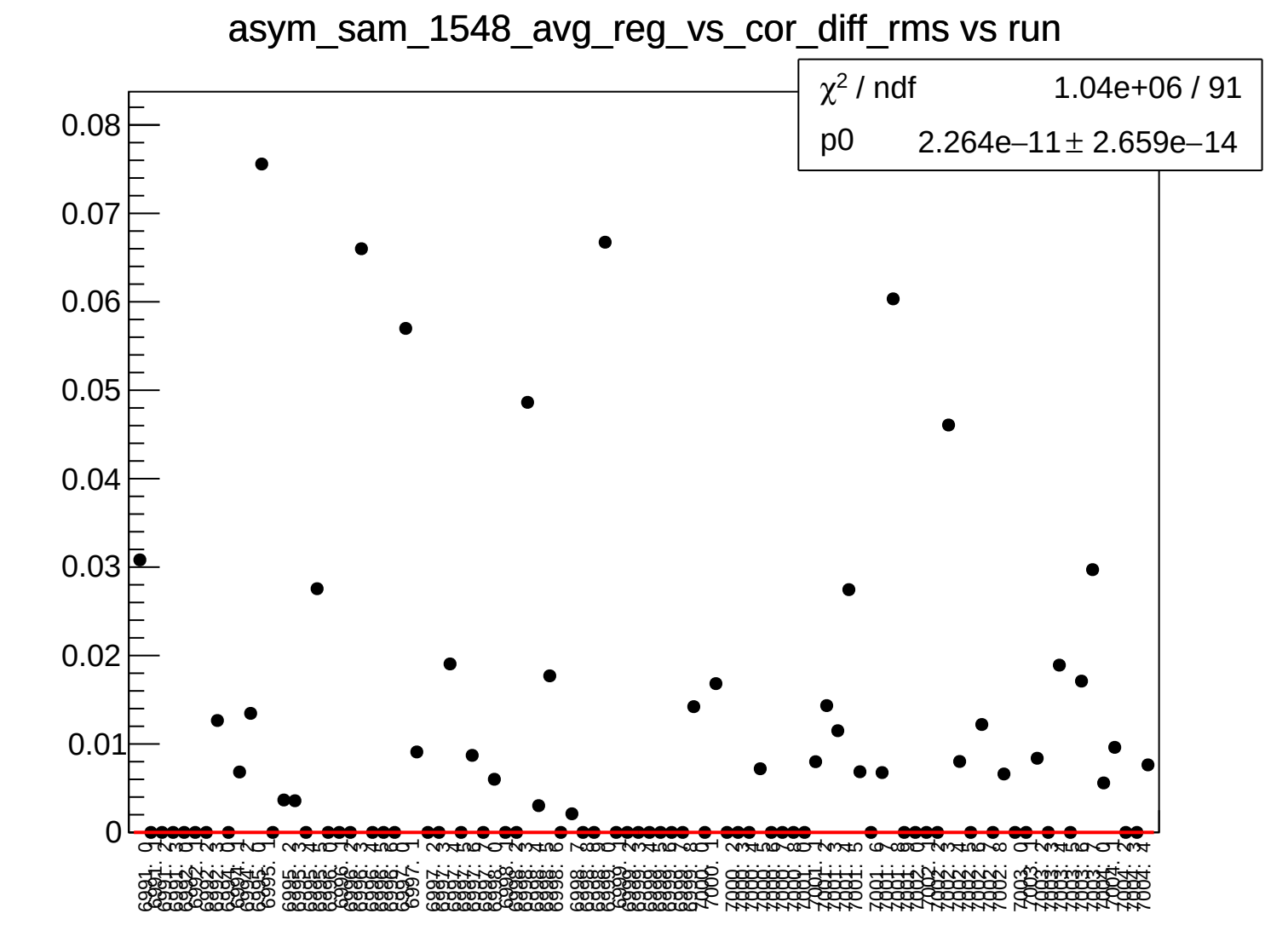

asym_sam_1548_avg_mean vs run
χ² / ndf 91.05 / 91
p0 528.3 ± 800.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 5441
Std Dev 0
2
1
0
−1
−2

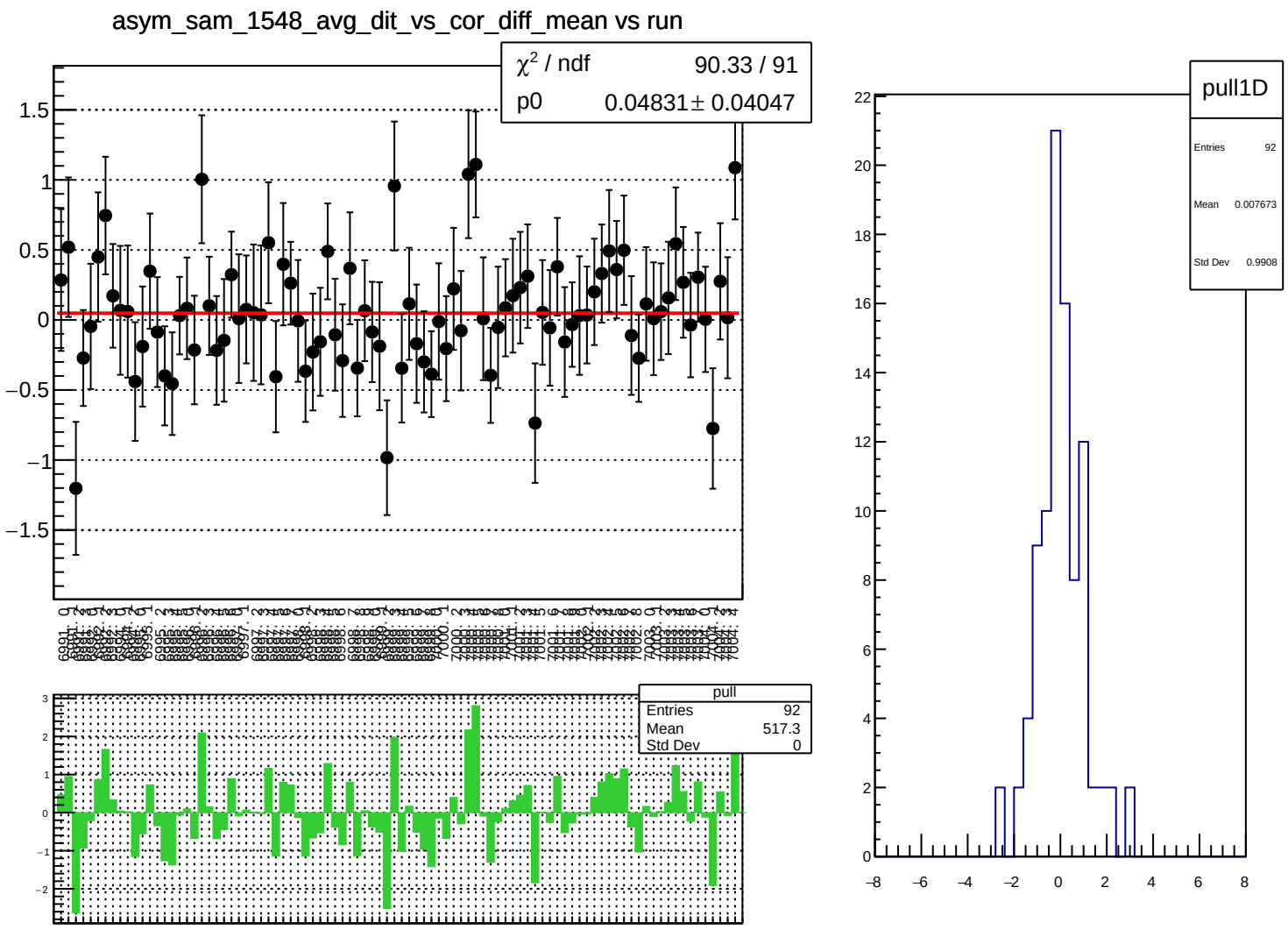

pull1D
Entries 92
Mean −0.0002845
Std Dev 0.9948
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

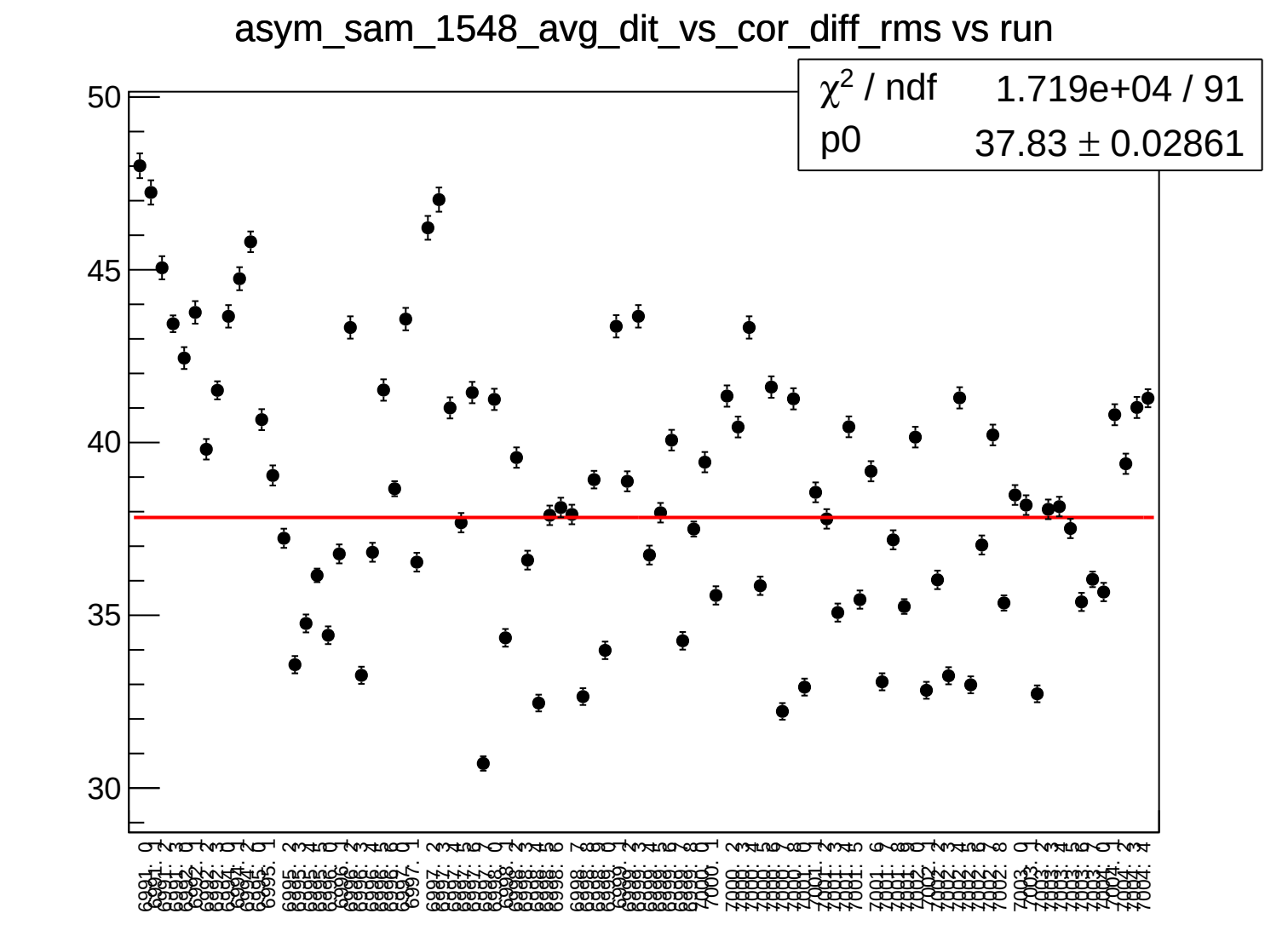

asym_sam_1548_avg_rms vs run
χ² / ndf 3946 / 91
p0 751.2 ± 0.566
850
800
750
700
650

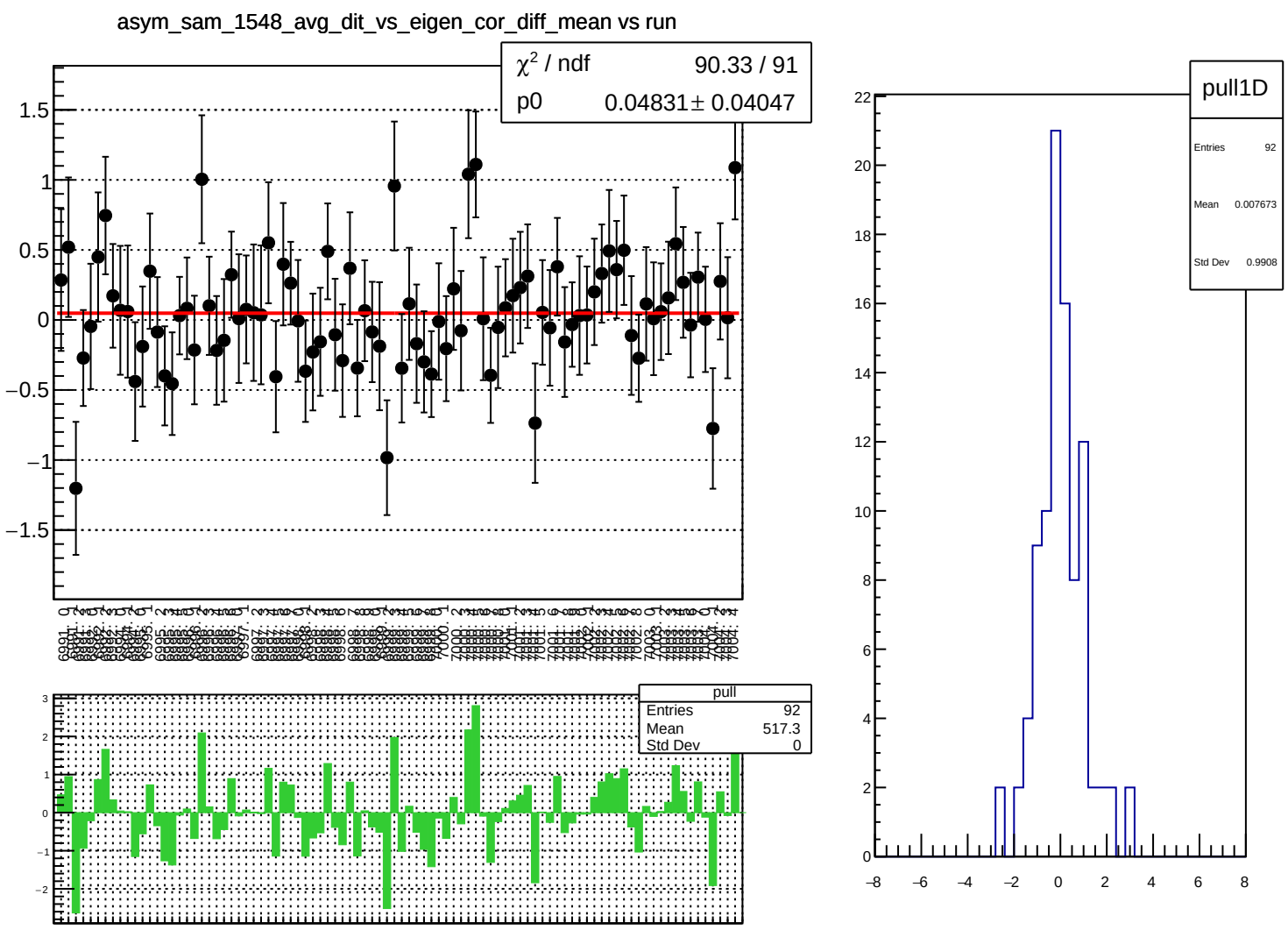

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 120.2 / 91
p0 −1.53e−14 ± 3.76e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 56.57
Std Dev 24.25
2
1
0
−1
−2
−3

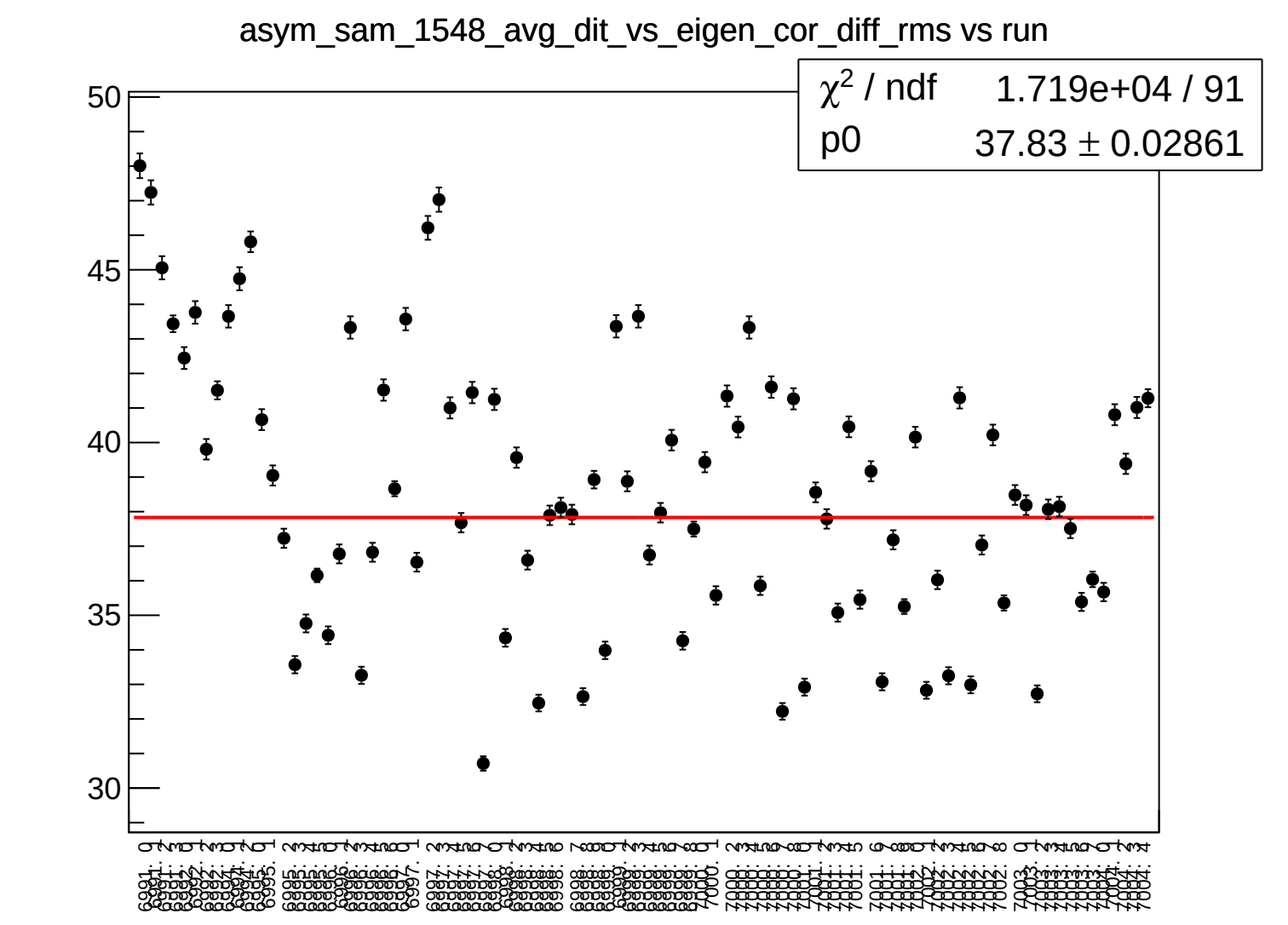

pull1D
Entries 92
Mean −0.1475
Std Dev 1.133
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

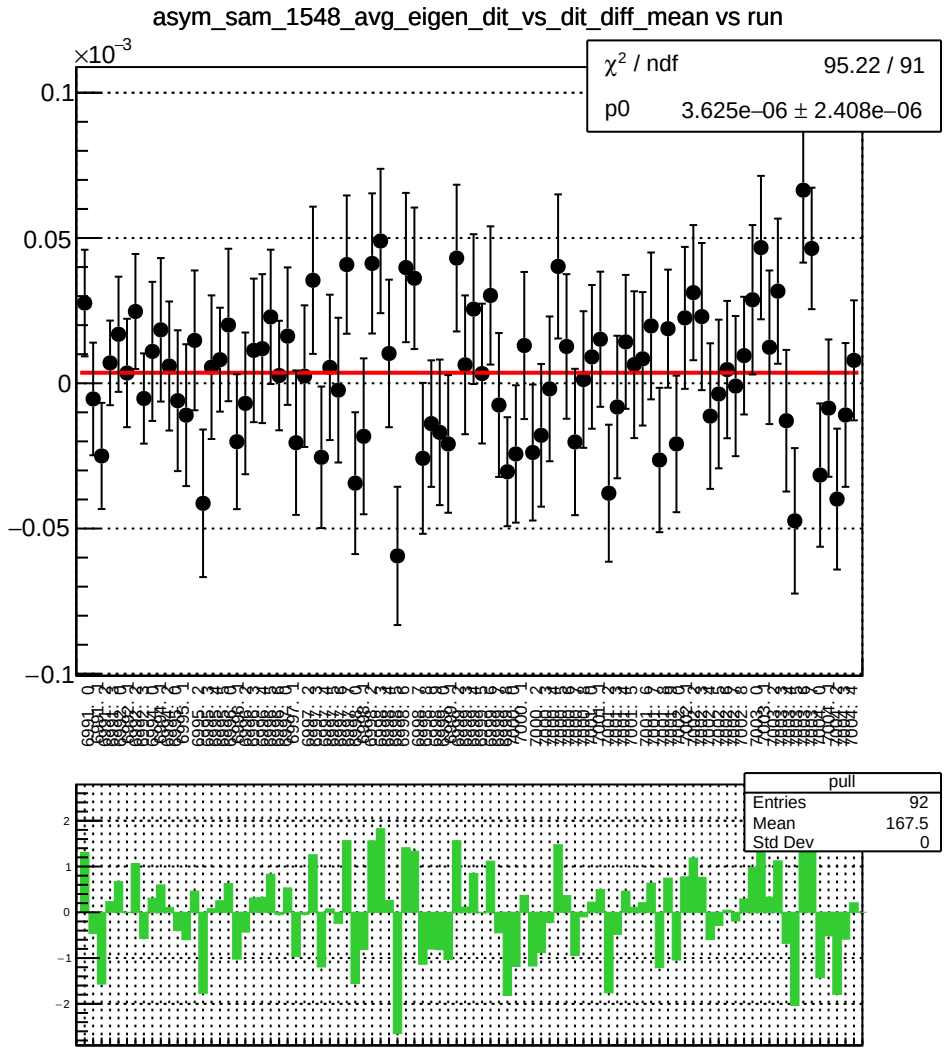

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.04e+06 / 91
p0 2.264e−11 ± 2.659e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

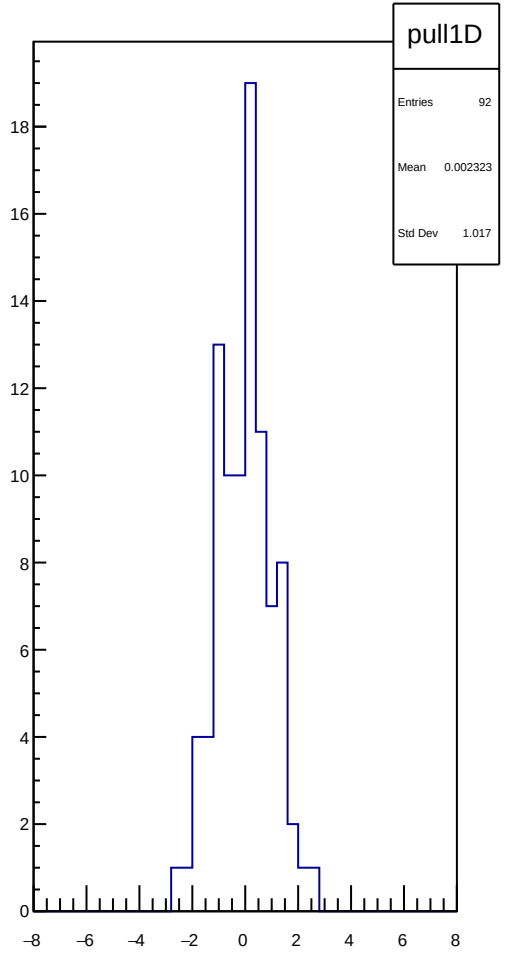

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.33 / 91
p0 0.04831 ± 0.04047
pull
Entries 92
Mean 517.3
Std Dev 0
pull1D
Entries 92
Mean 0.007673
Std Dev 0.9908

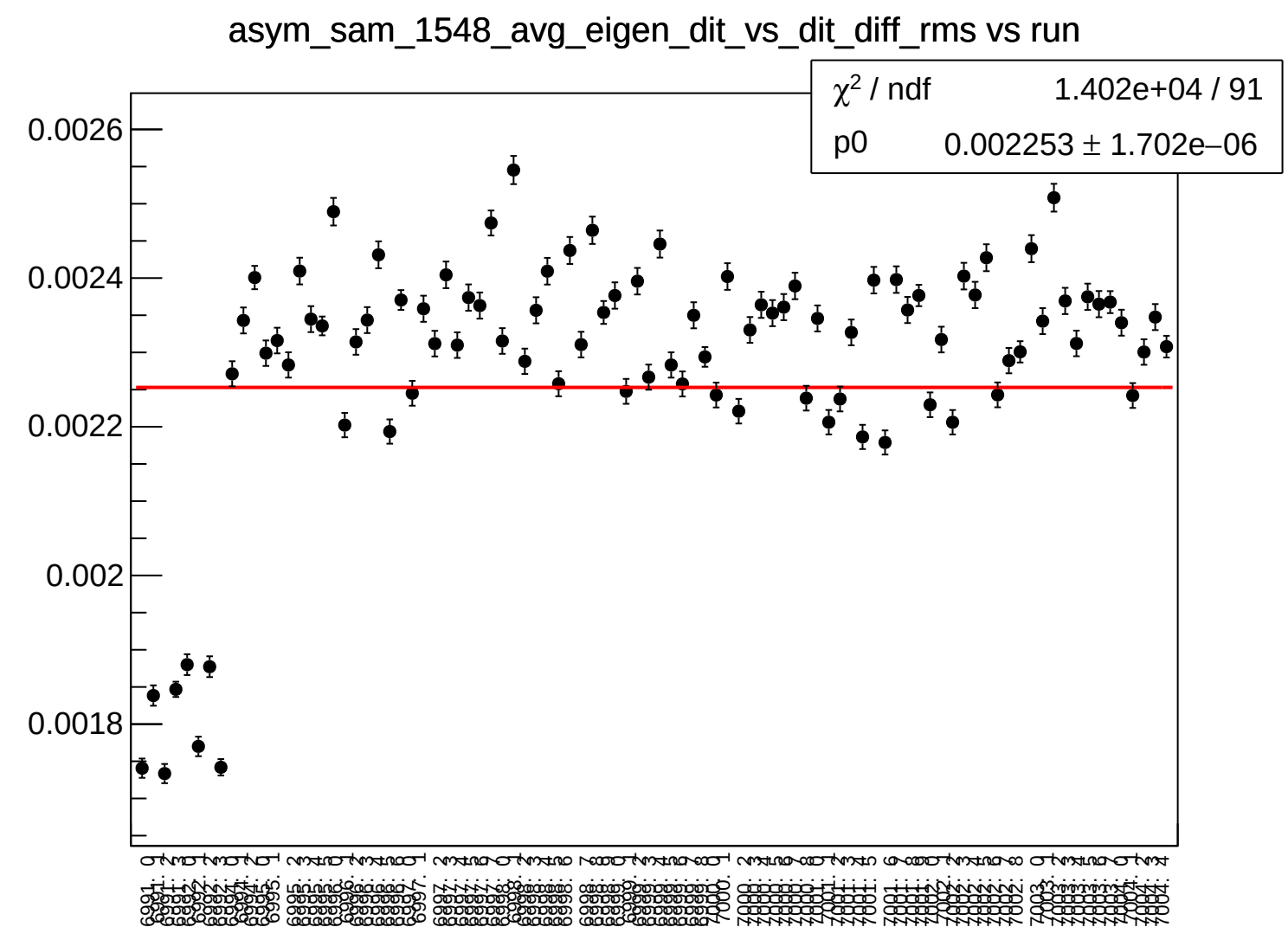

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.719e+04 / 91
p0 37.83 ± 0.02861
50
45
40
35
30

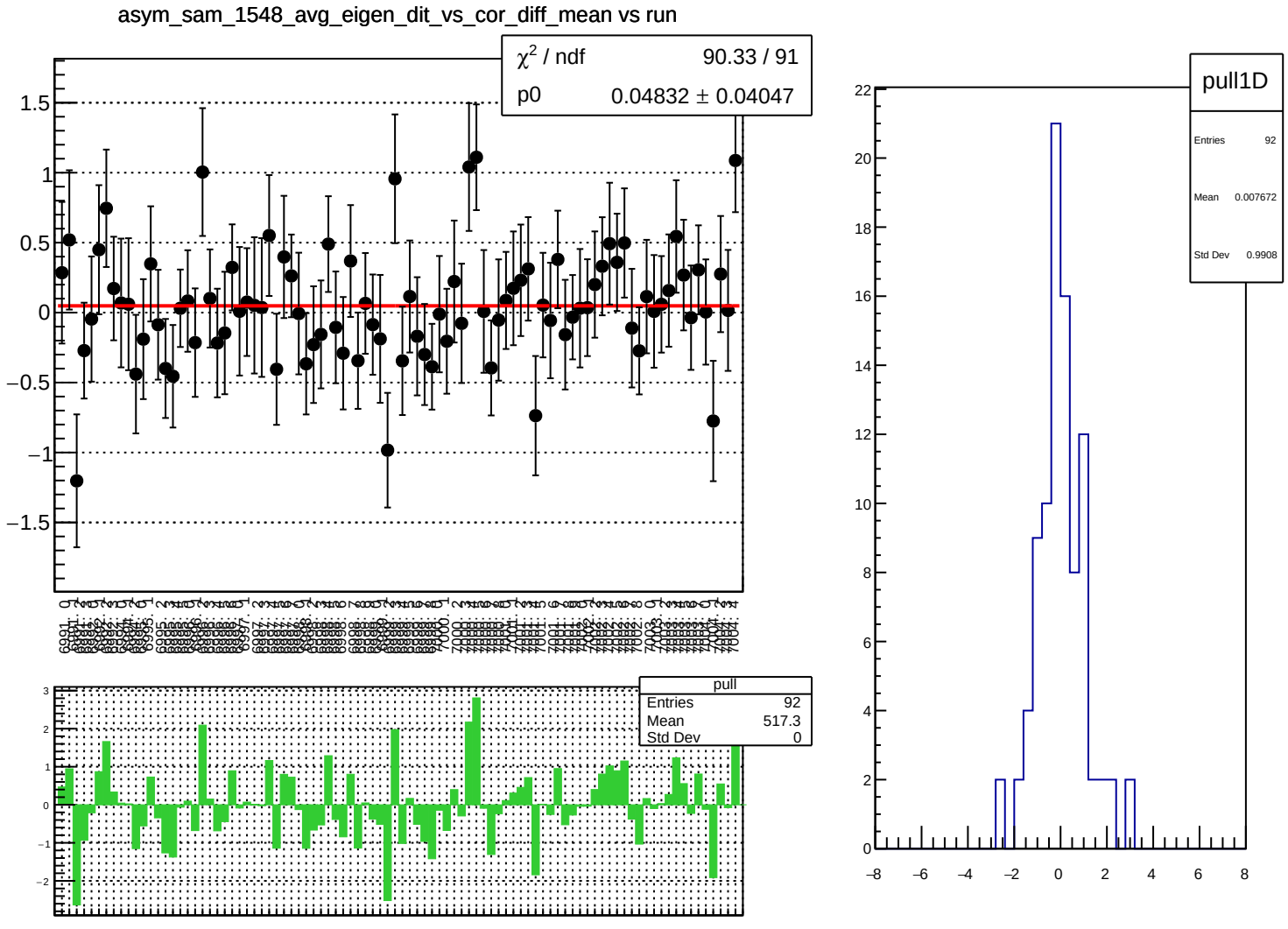

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.33 / 91
p0 0.04831 ± 0.04047
pull
Entries 92
Mean 517.3
Std Dev 0
pull1D
Entries 92
Mean 0.007673
Std Dev 0.9908

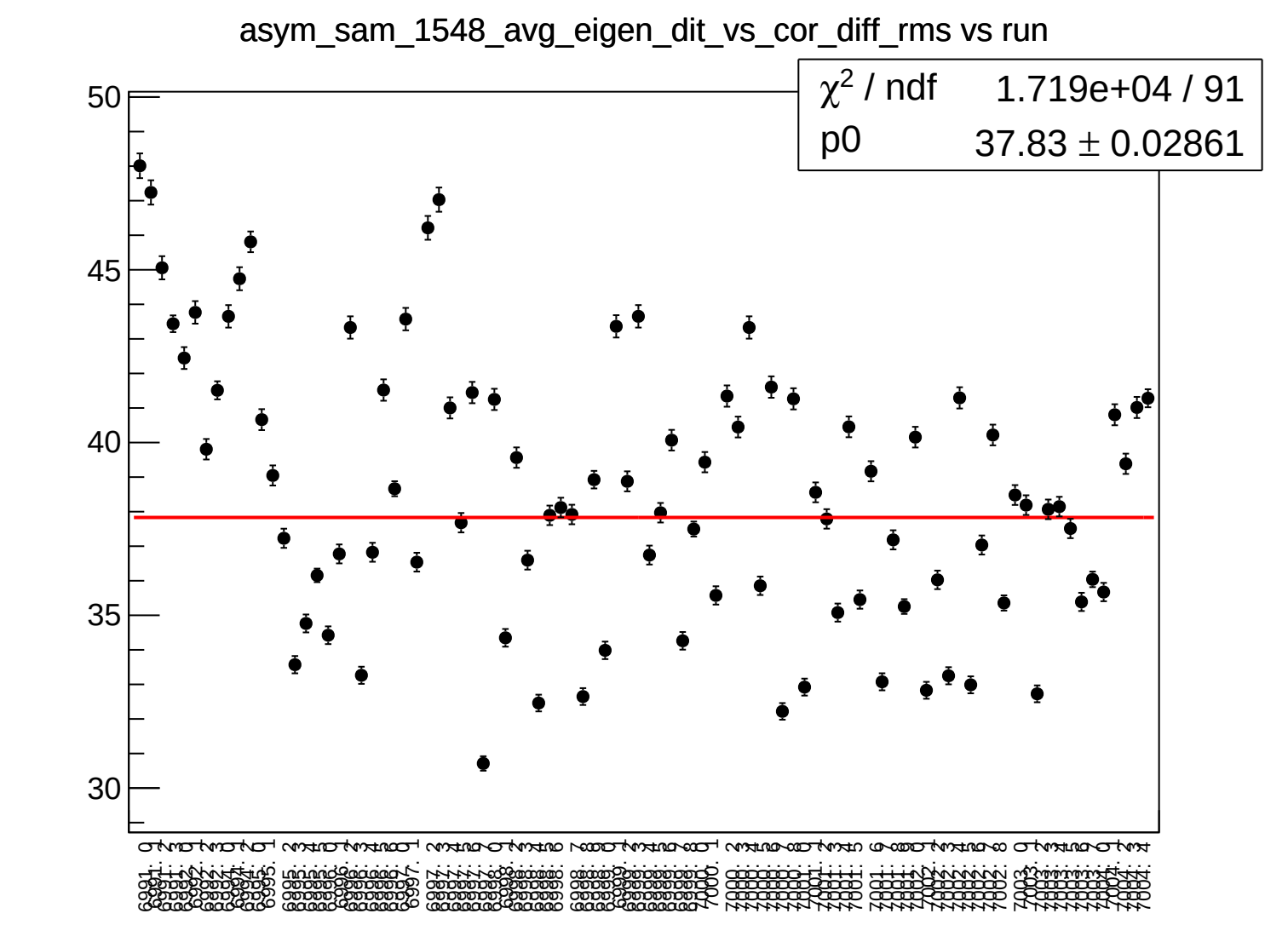

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.719e+04 / 91
p0 37.83 ± 0.02861
50
45
40
35
30

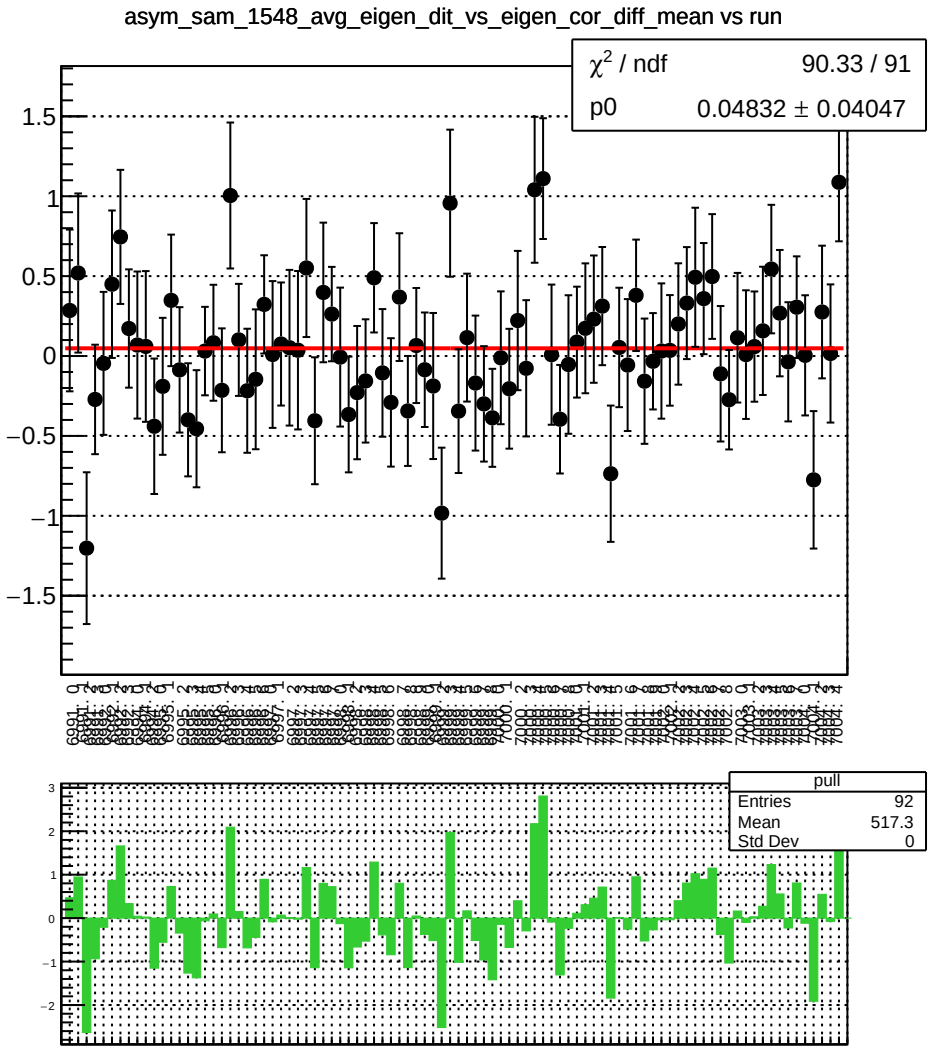

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.22 / 91
p0 3.625e−06 ± 2.408e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 167.5
Std Dev 0
2
1
0
−1
−2

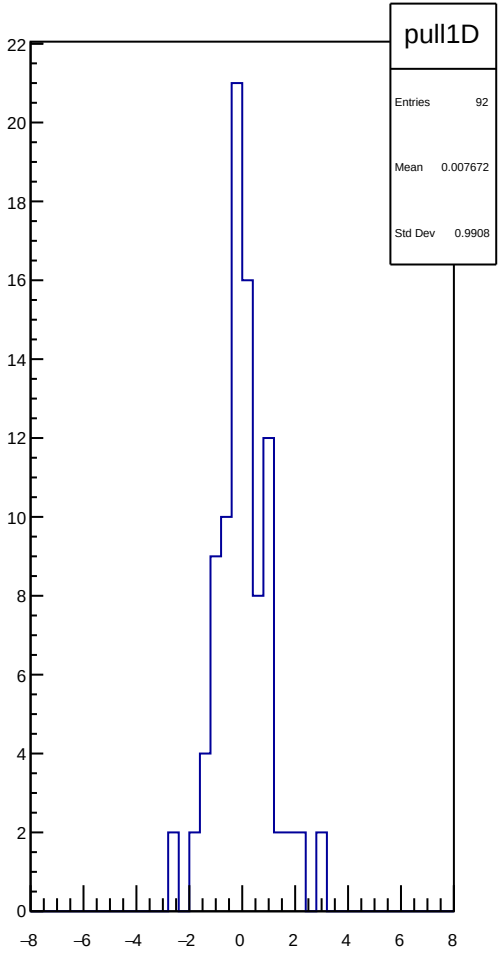

pull1D
Entries 92
Mean 0.002323
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

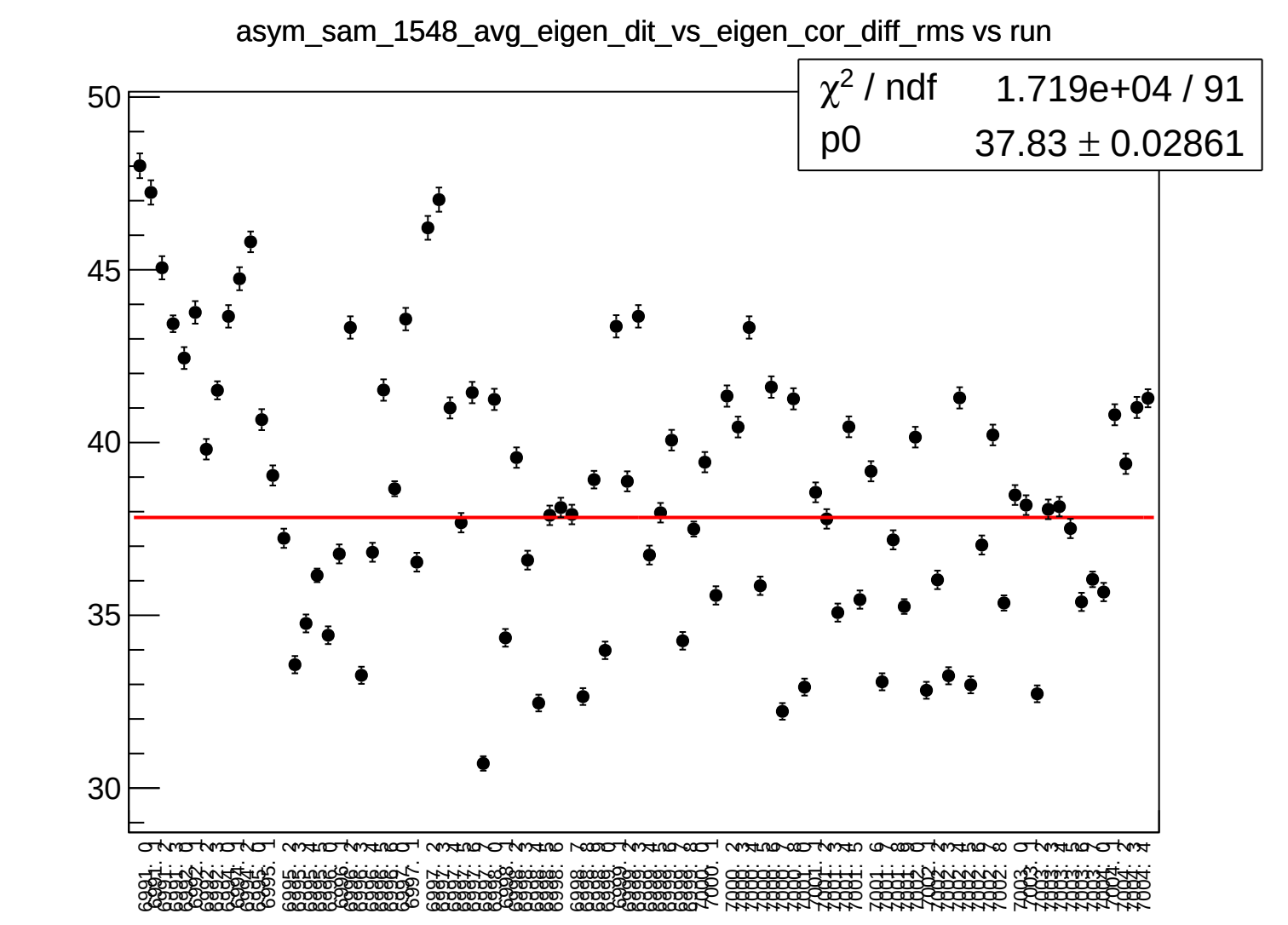

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.402e+04 / 91
p0 0.002253 ± 1.702e−06
0.0026
0.0024
0.0022
0.002
0.0018

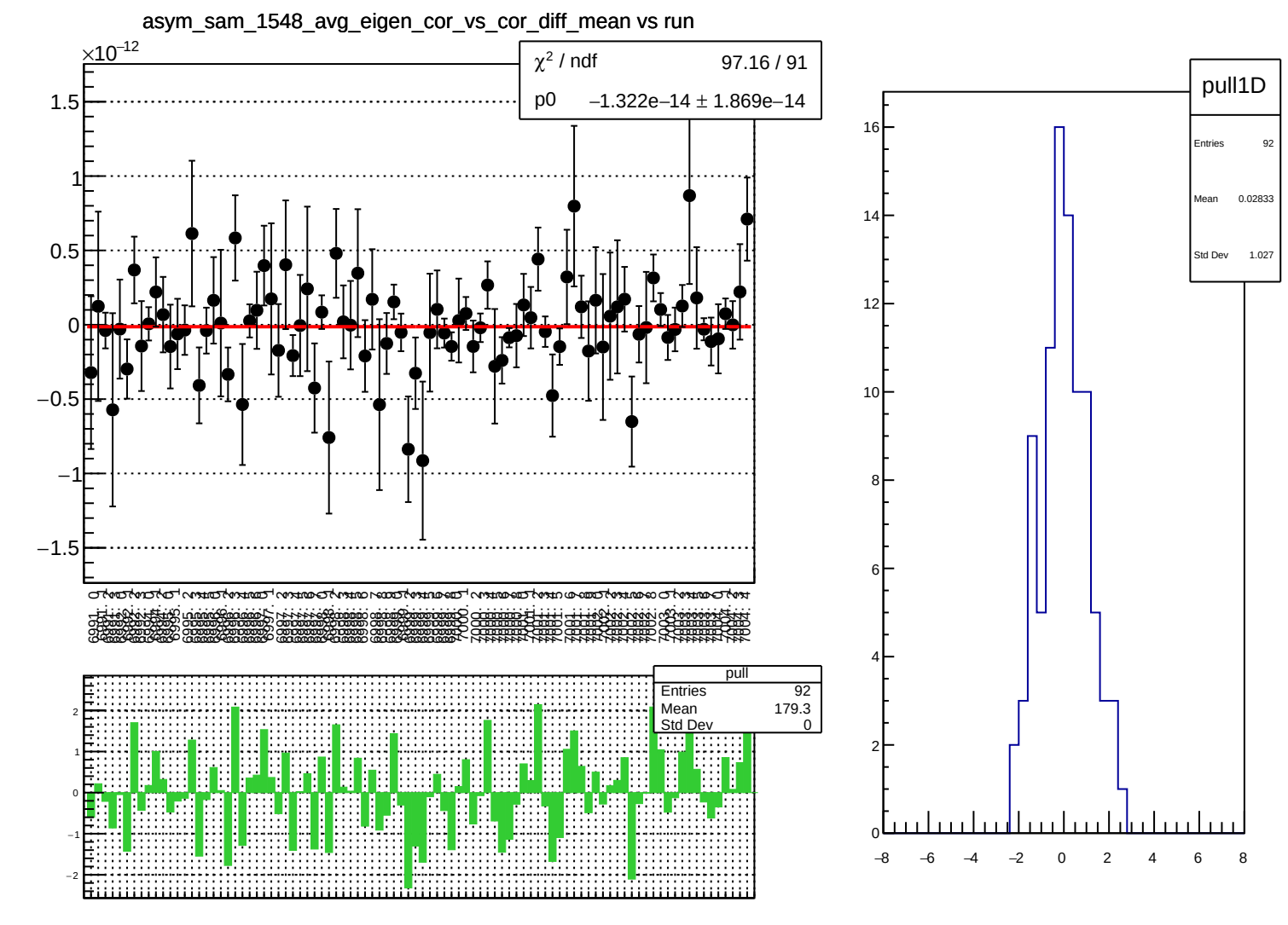

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.33 / 91
p0 0.04832 ± 0.04047
pull
Entries 92
Mean 517.3
Std Dev 0
pull1D
Entries 92
Mean 0.007672
Std Dev 0.9908

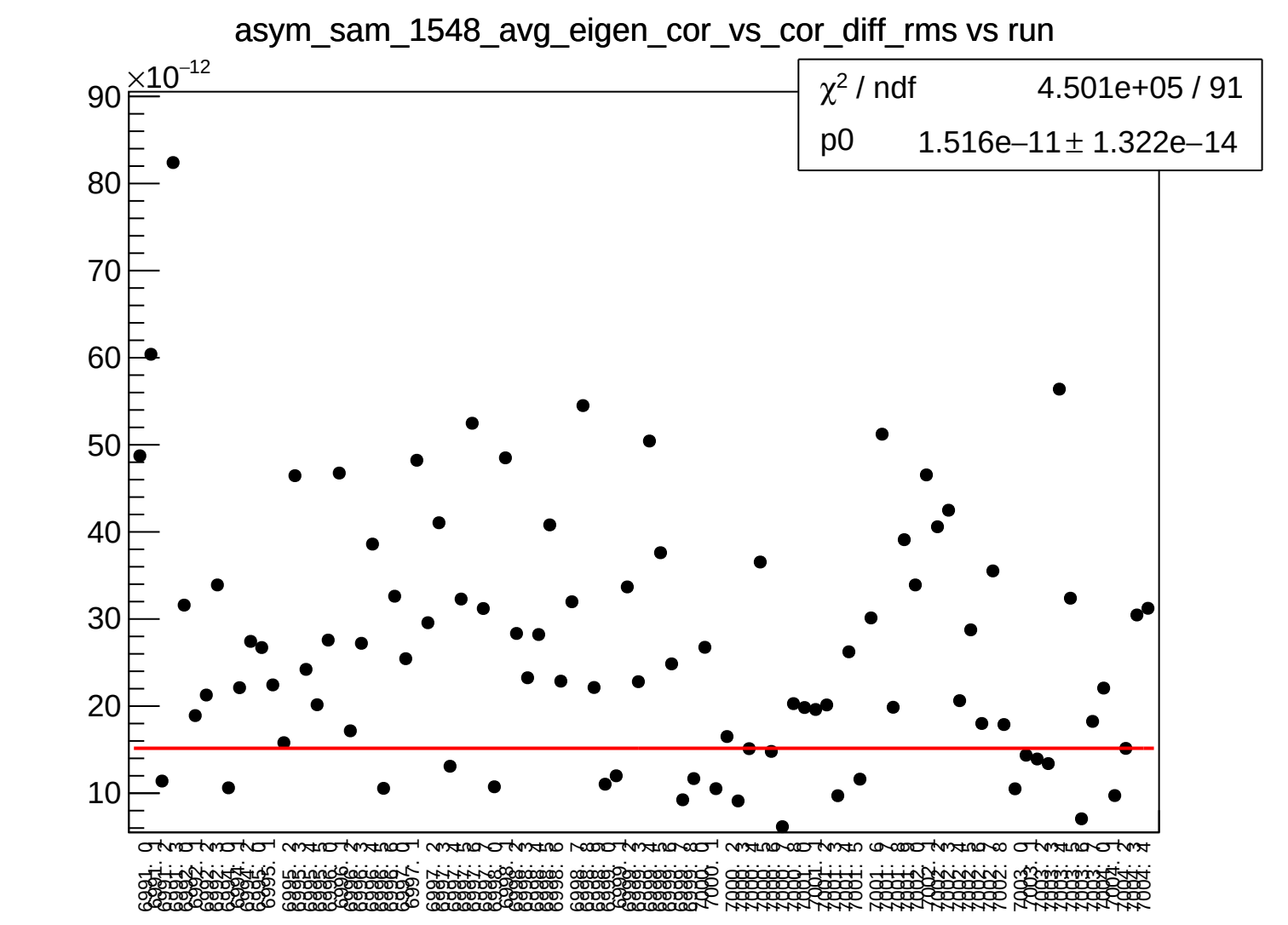

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.719e+04 / 91
p0 37.83 ± 0.02861
50
45
40
35
30

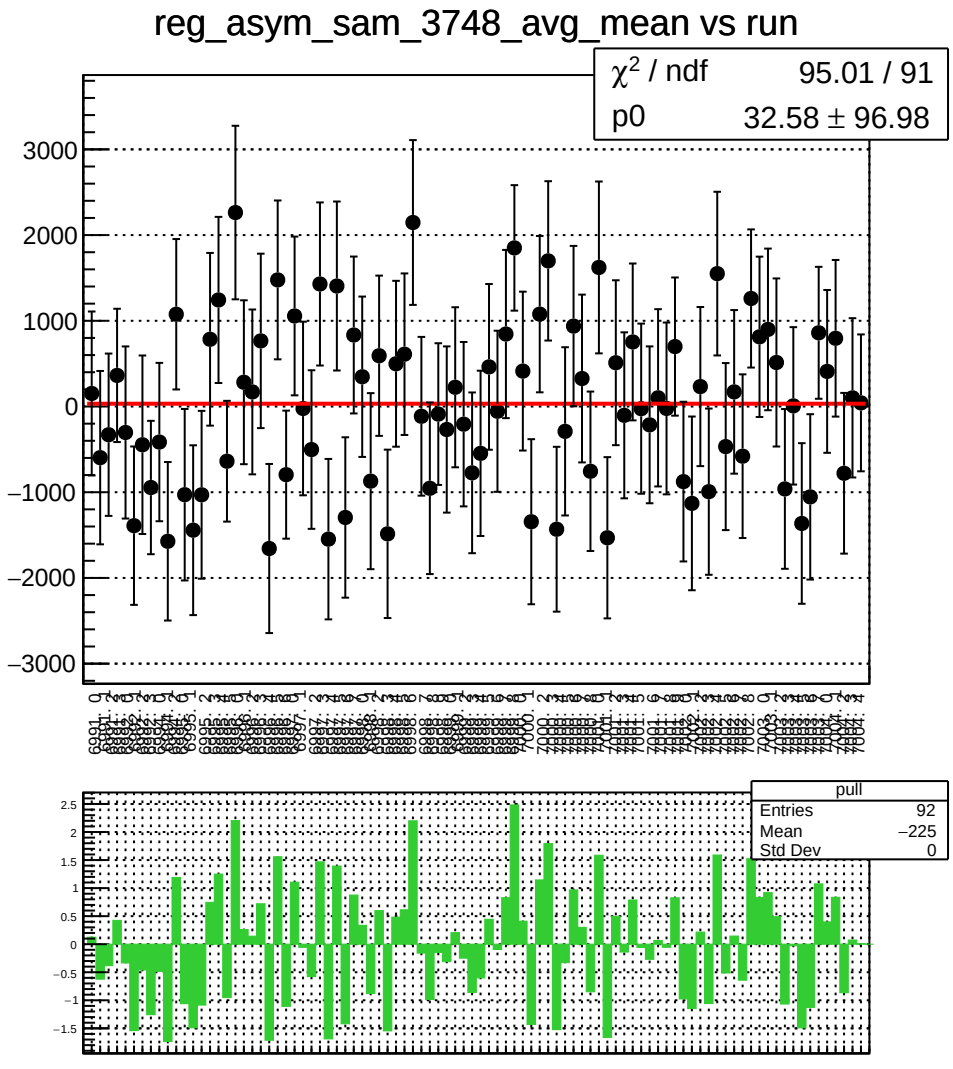

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.33 / 91
p0 0.04832 ± 0.04047
pull
Entries 92
Mean 517.3
Std Dev 0

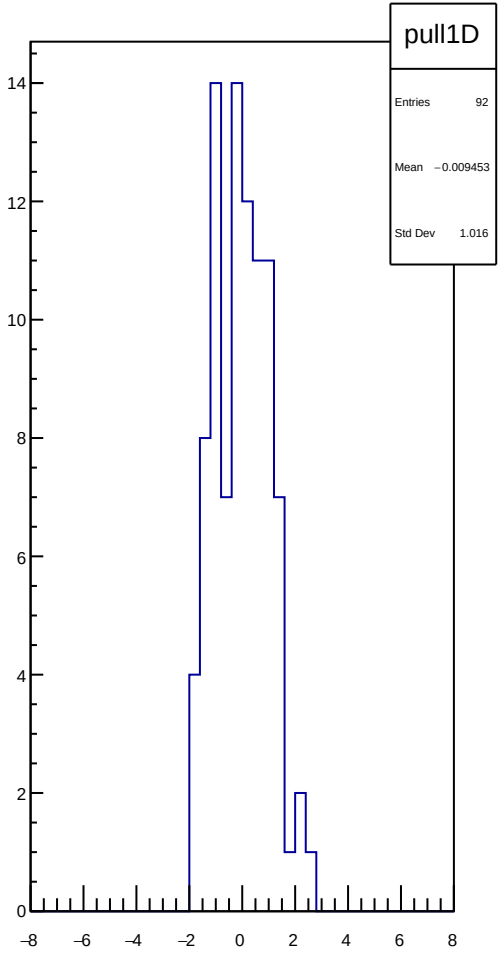

pull1D
Entries 92
Mean 0.007672
Std Dev 0.9908

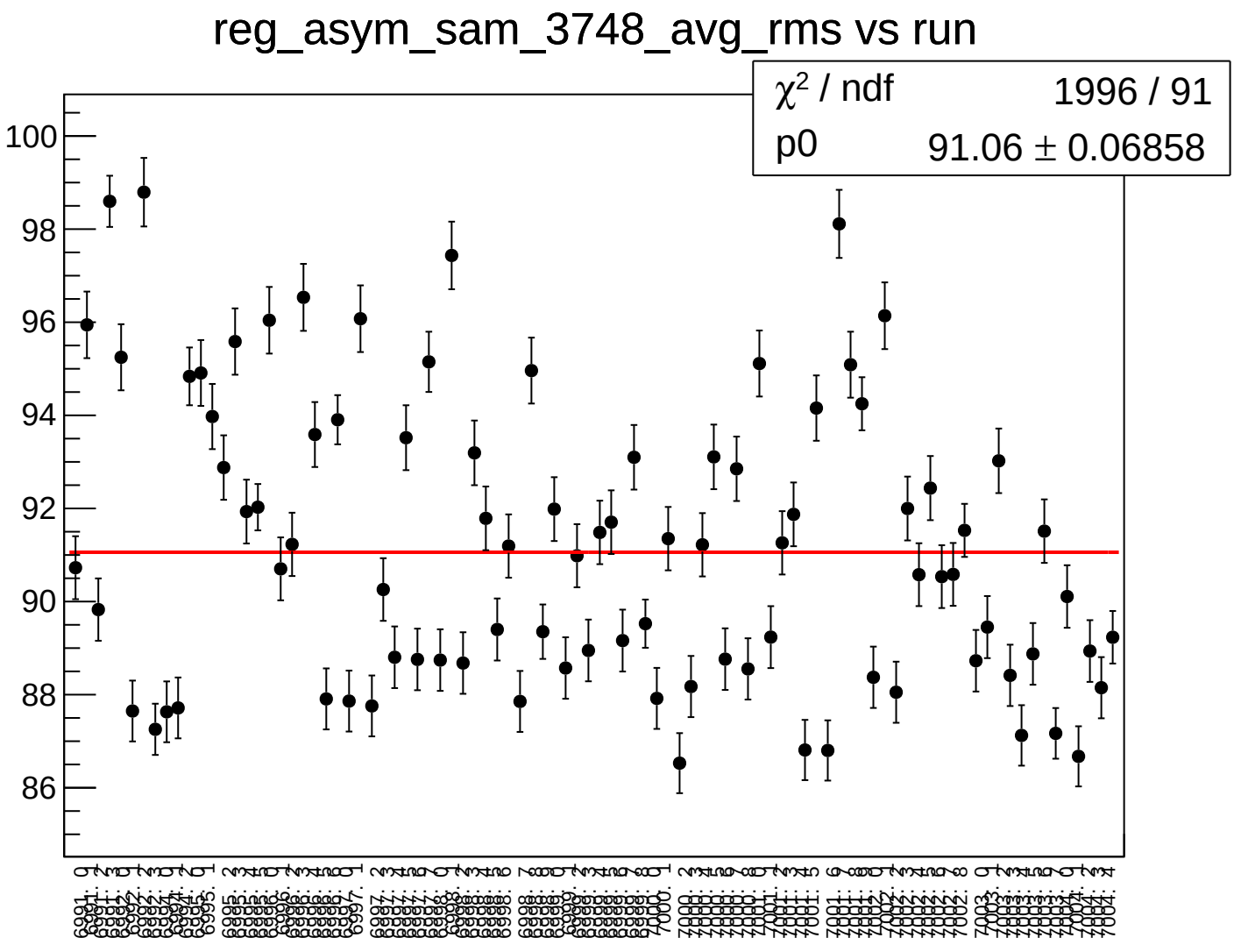

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.719e+04 / 91
p0 37.83 ± 0.02861
50
45
40
35
30

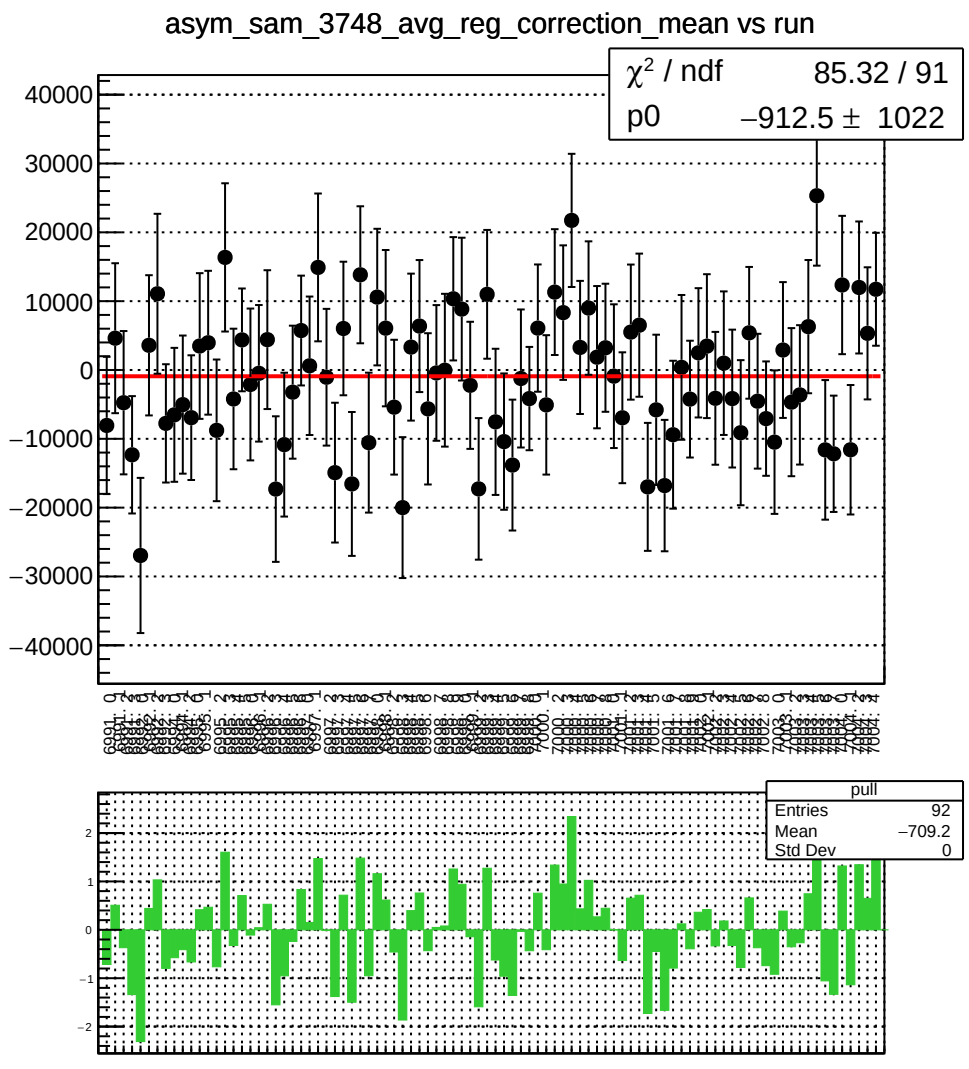

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 97.16 / 91
p0 −1.322e−14 ± 1.869e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 92
Mean 179.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.02833
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

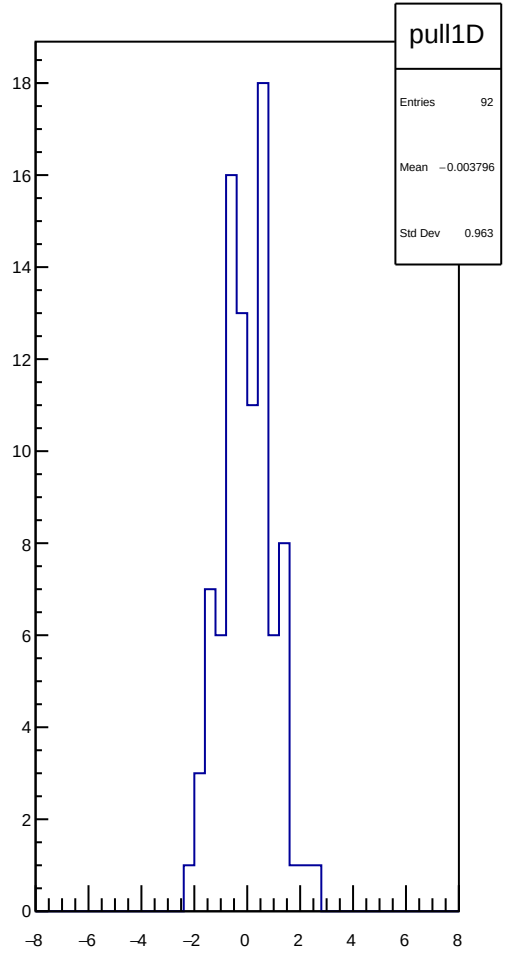

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
90
80
70
60
50
40
30
20
10
χ² / ndf 4.501e+05 / 91
p0 1.516e−11 ± 1.322e−14

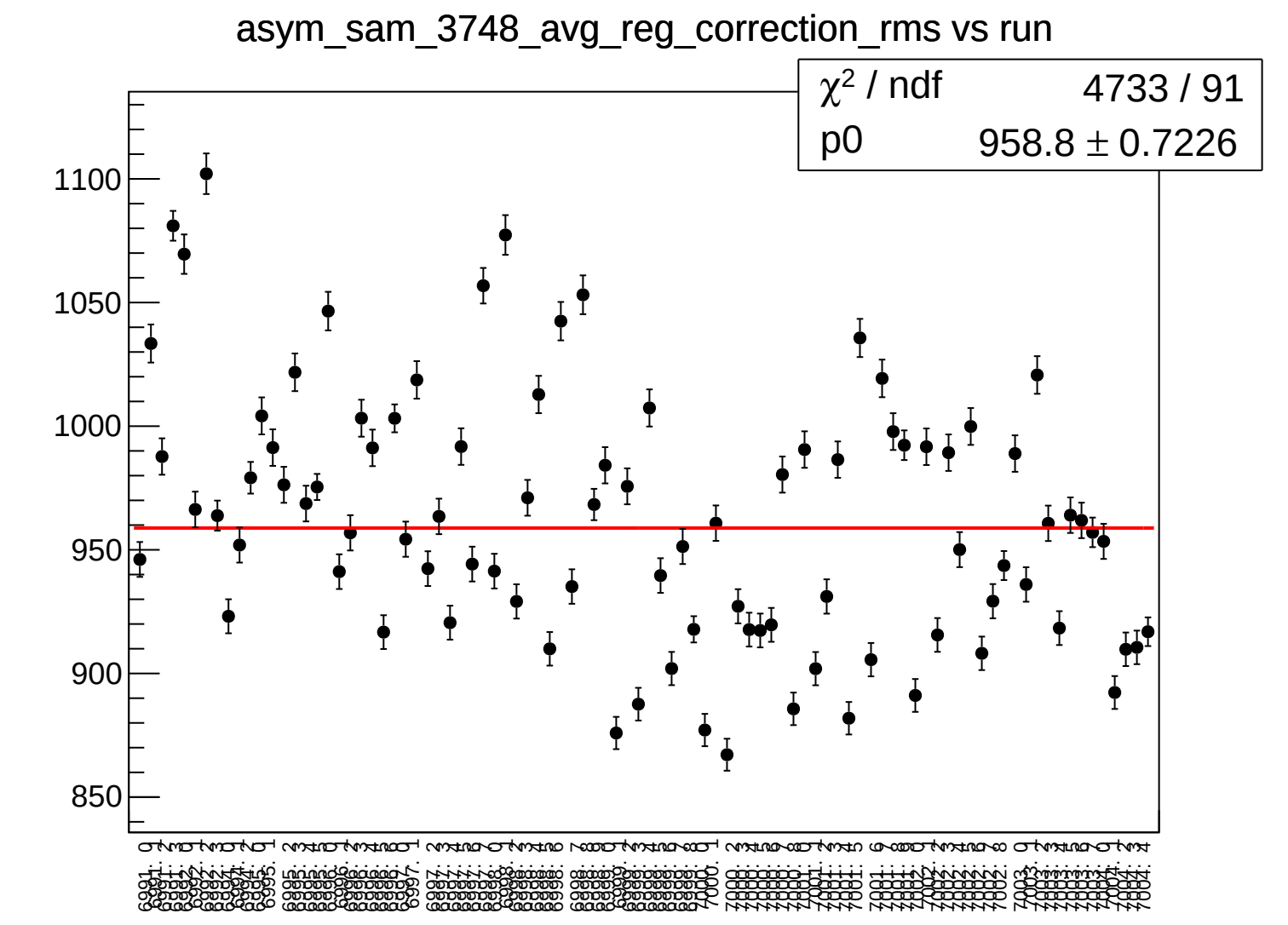

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 95.01 / 91
p0 32.58 ± 96.98
pull
Entries 92
Mean −225
Std Dev 0

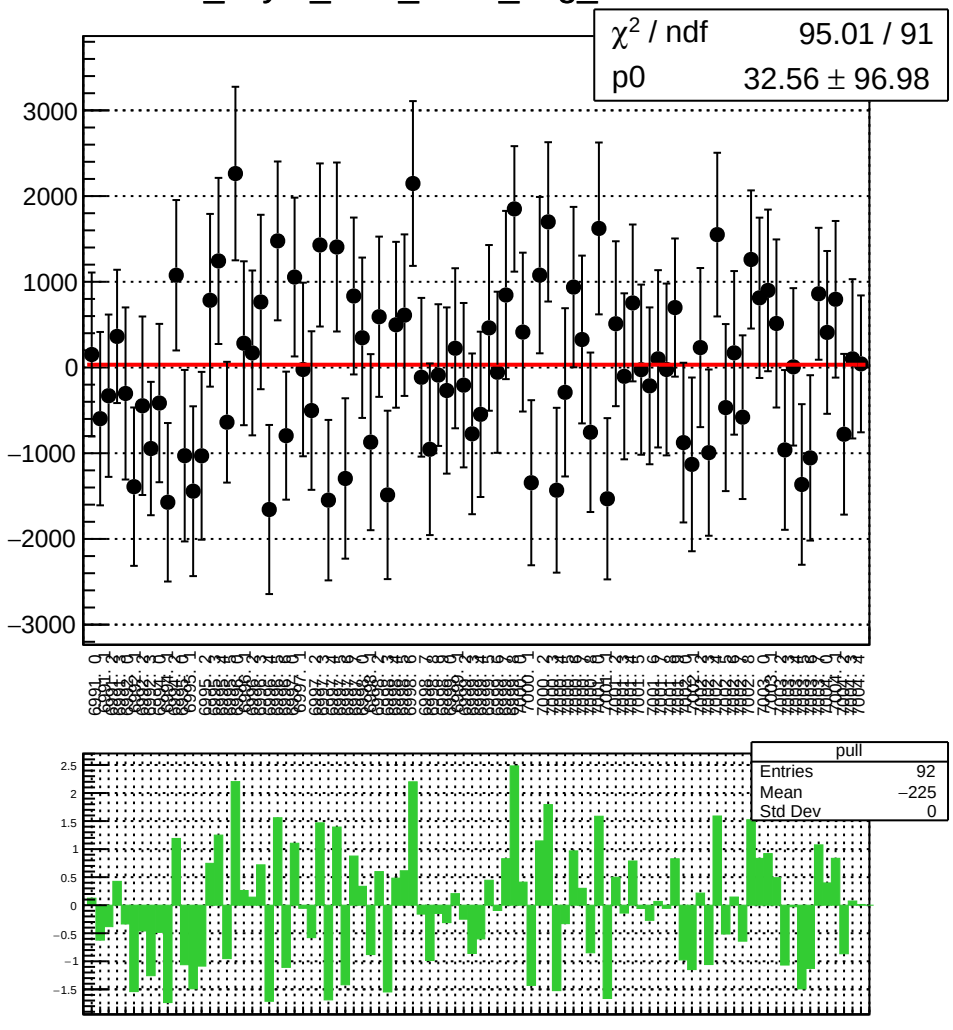

pull1D
Entries 92
Mean −0.009453
Std Dev 1.016

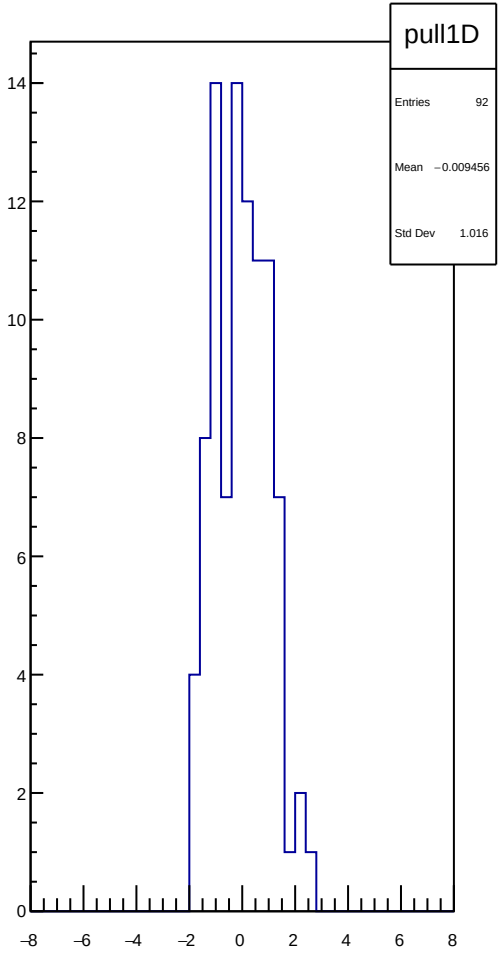

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1996 / 91
p0 91.06 ± 0.06858
100
98
96
94
92
90
88
86

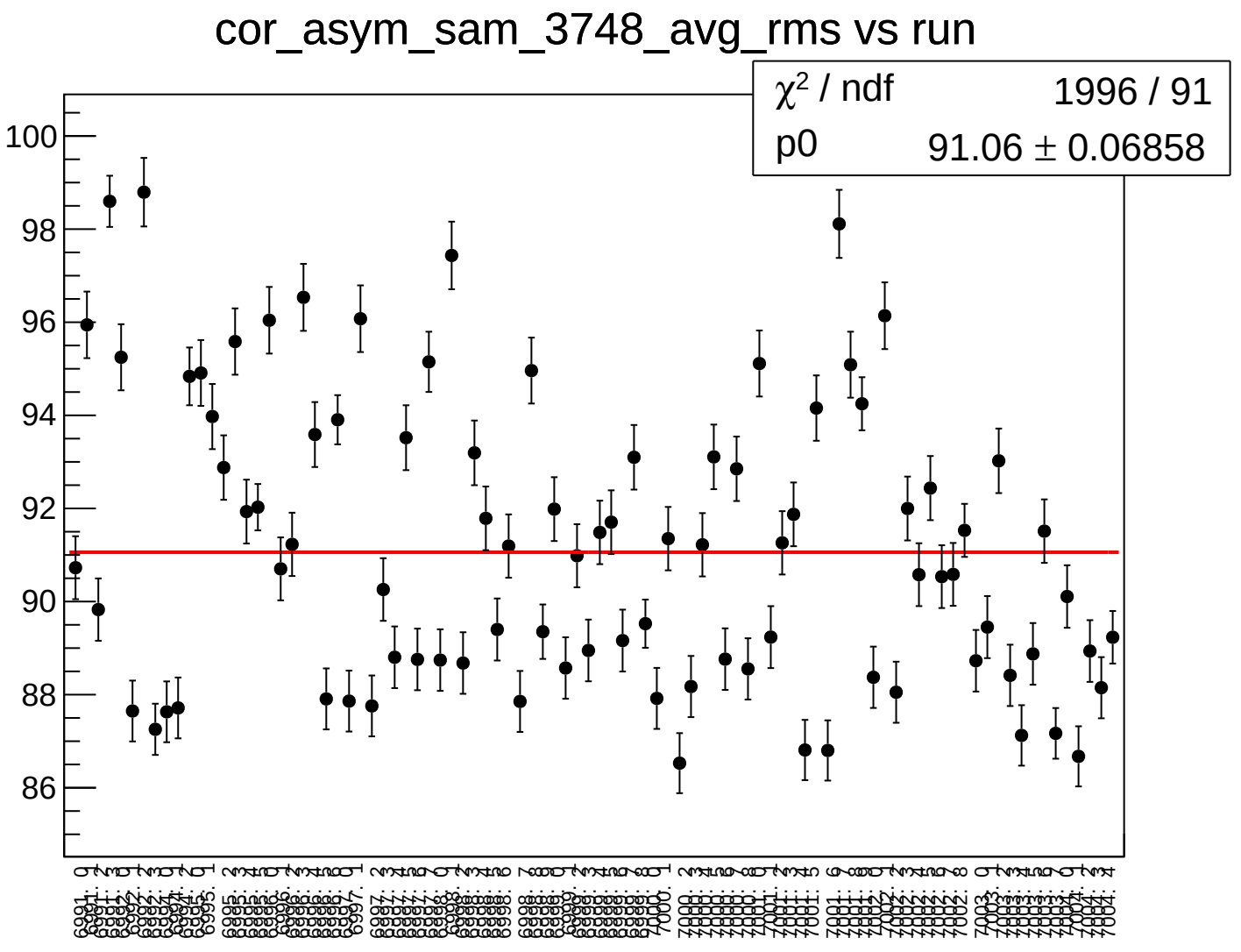

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 85.32 / 91
p0 −912.5 ± 1022
pull
Entries 92
Mean −709.2
Std Dev 0

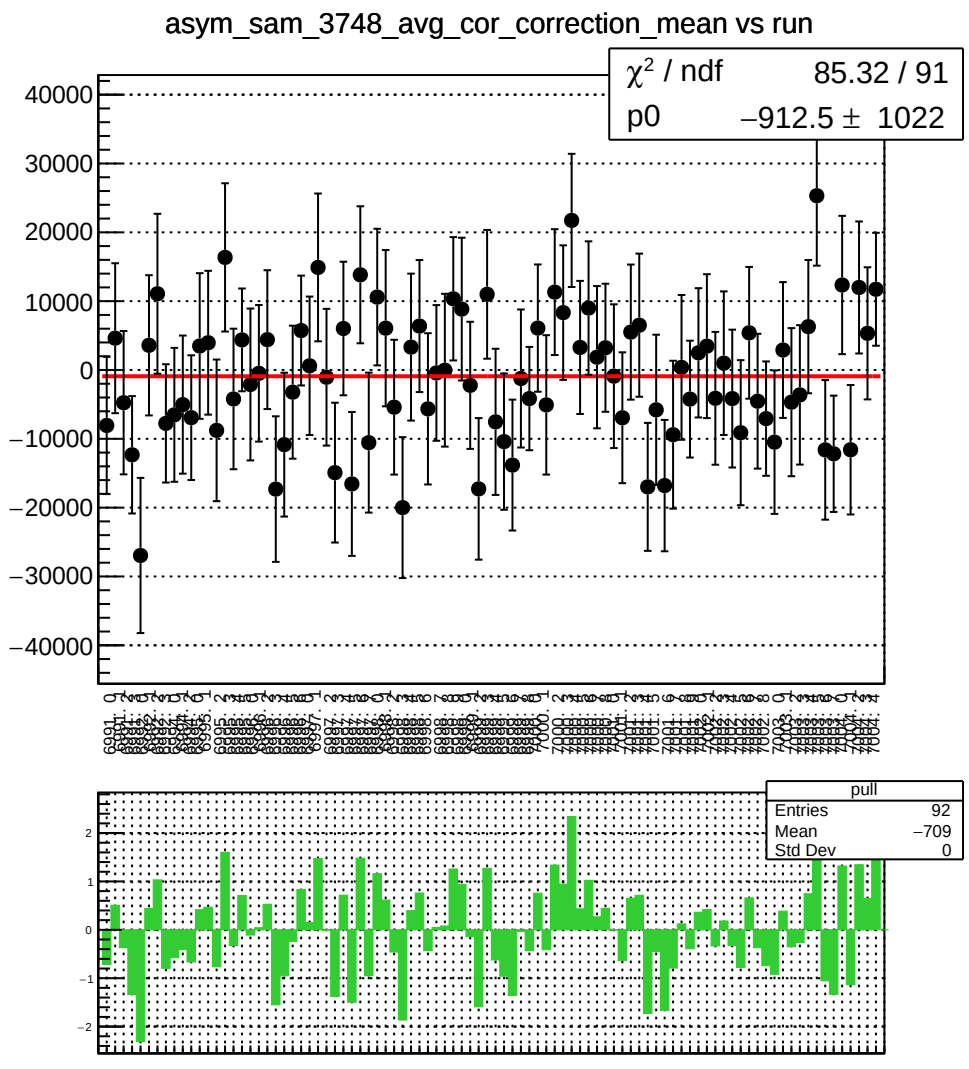

pull1D
Entries 92
Mean −0.003796
Std Dev 0.963

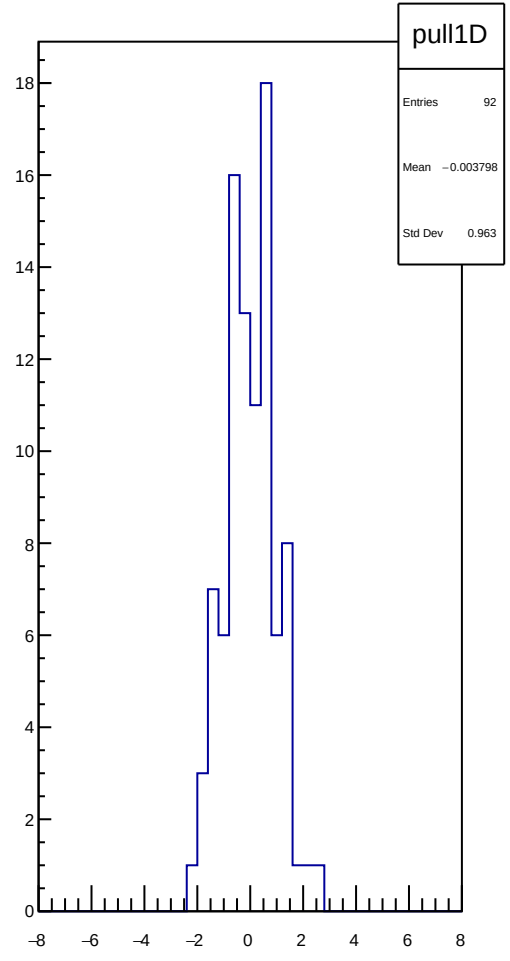

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 4733 / 91
p0 958.8 ± 0.7226
1100
1050
1000
950
900
850

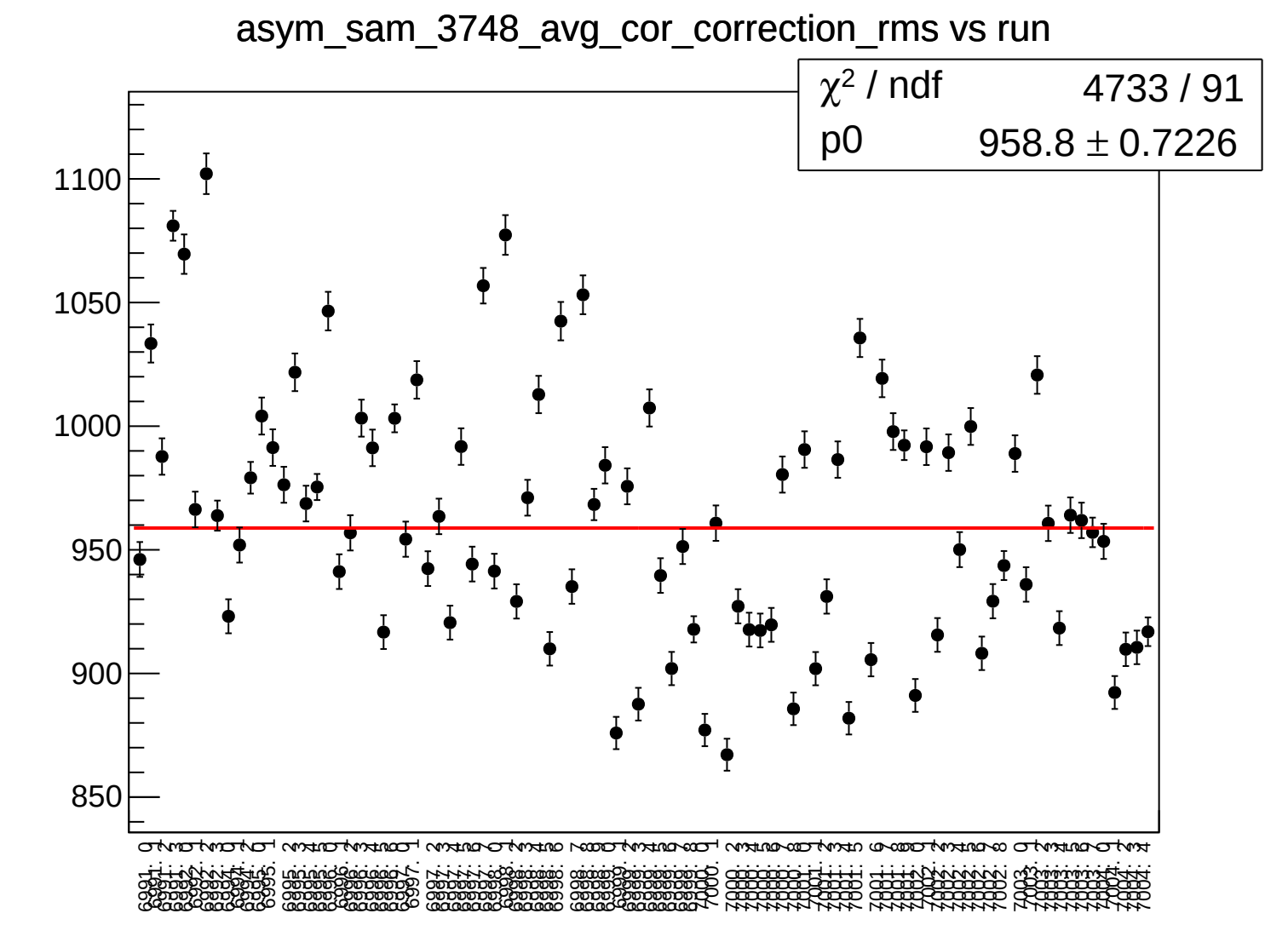

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 95.01 / 91
p0 32.56 ± 96.98
pull
Entries 92
Mean −225
Std Dev 0

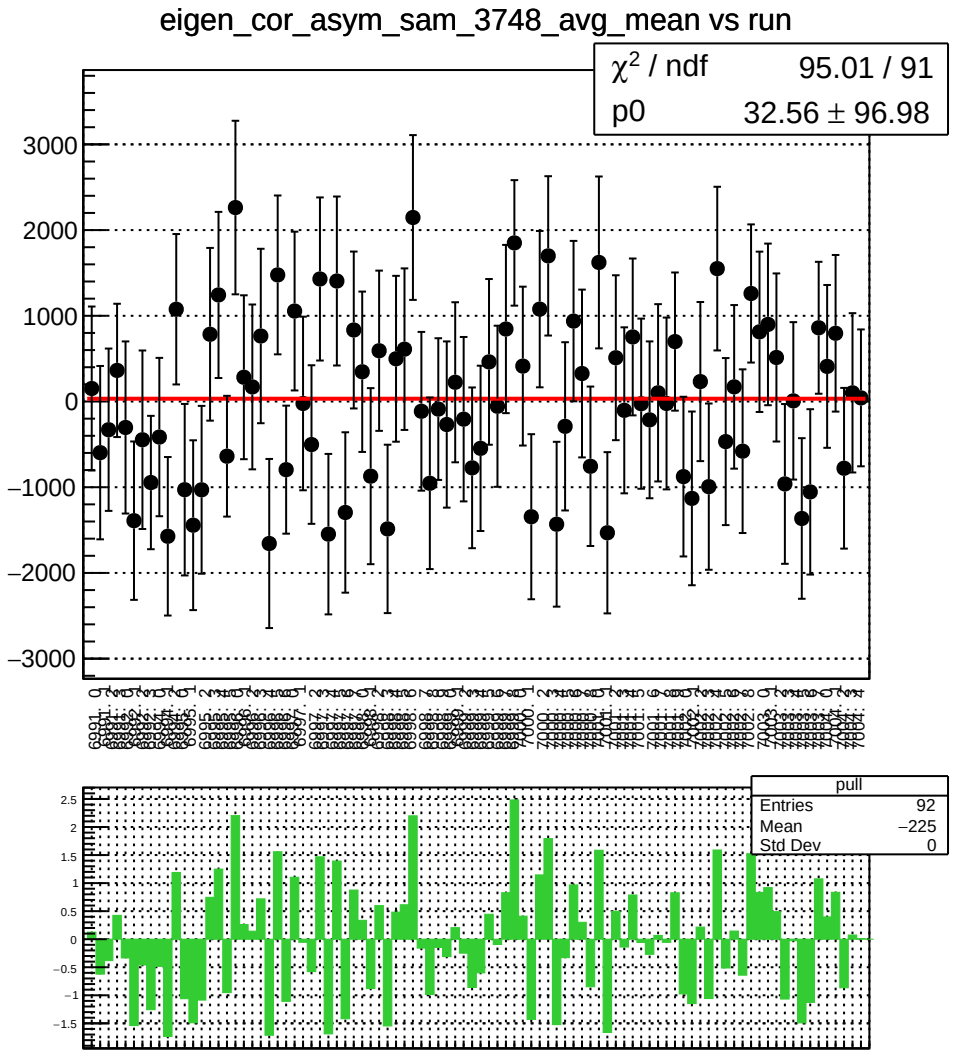

pull1D
Entries 92
Mean −0.009456
Std Dev 1.016

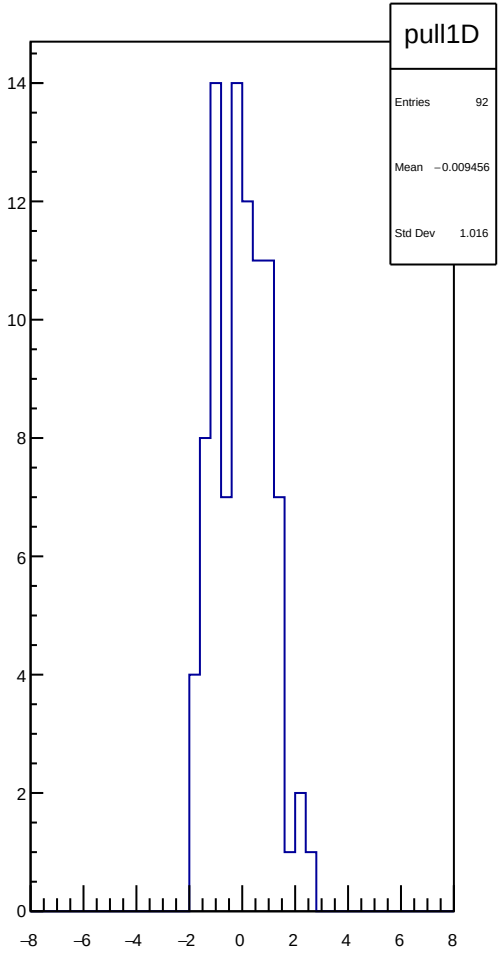

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1996 / 91
p0 91.06 ± 0.06858
100
98
96
94
92
90
88
86

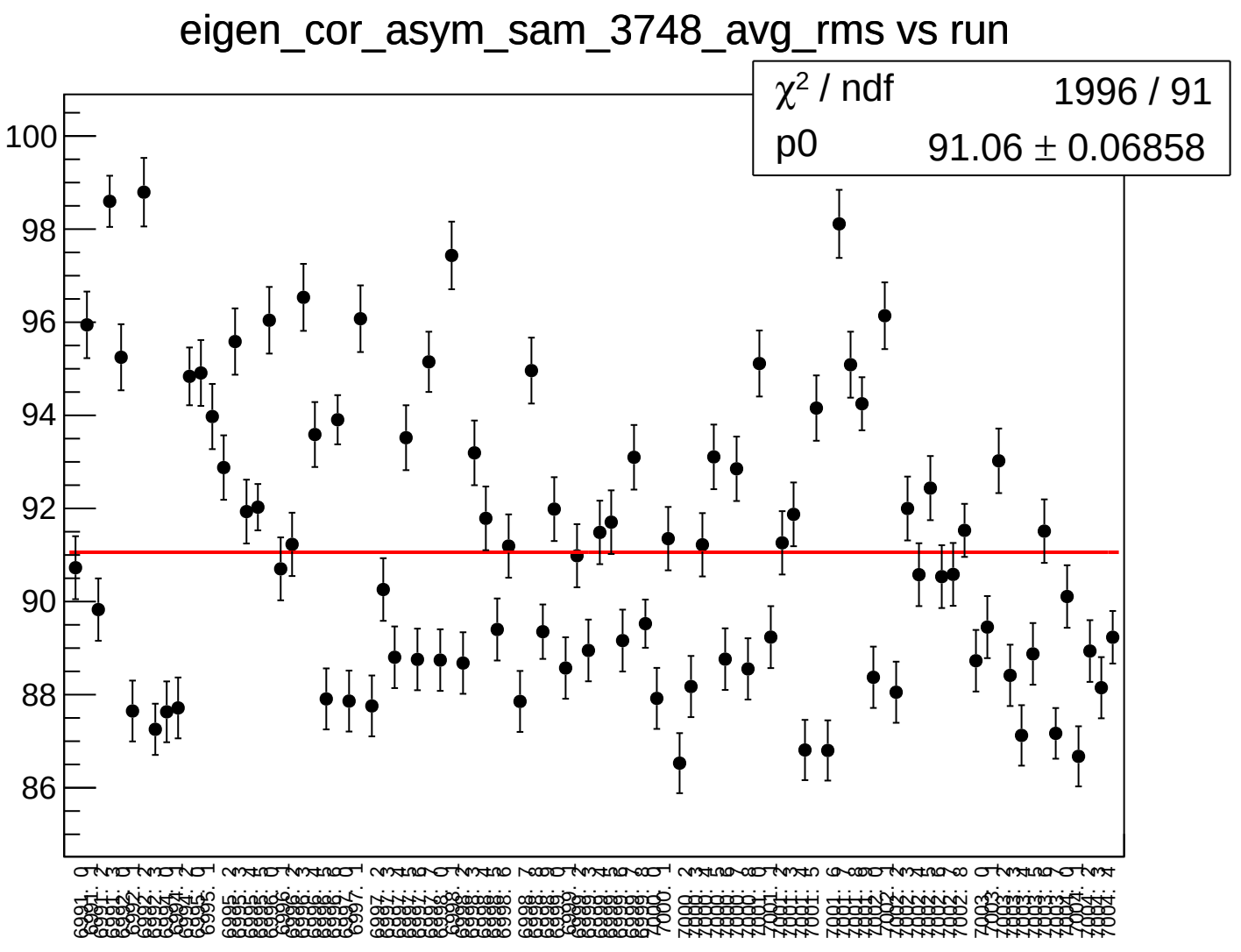

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 85.32 / 91
p0 −912.5 ± 1022
pull
Entries 92
Mean −709
Std Dev 0

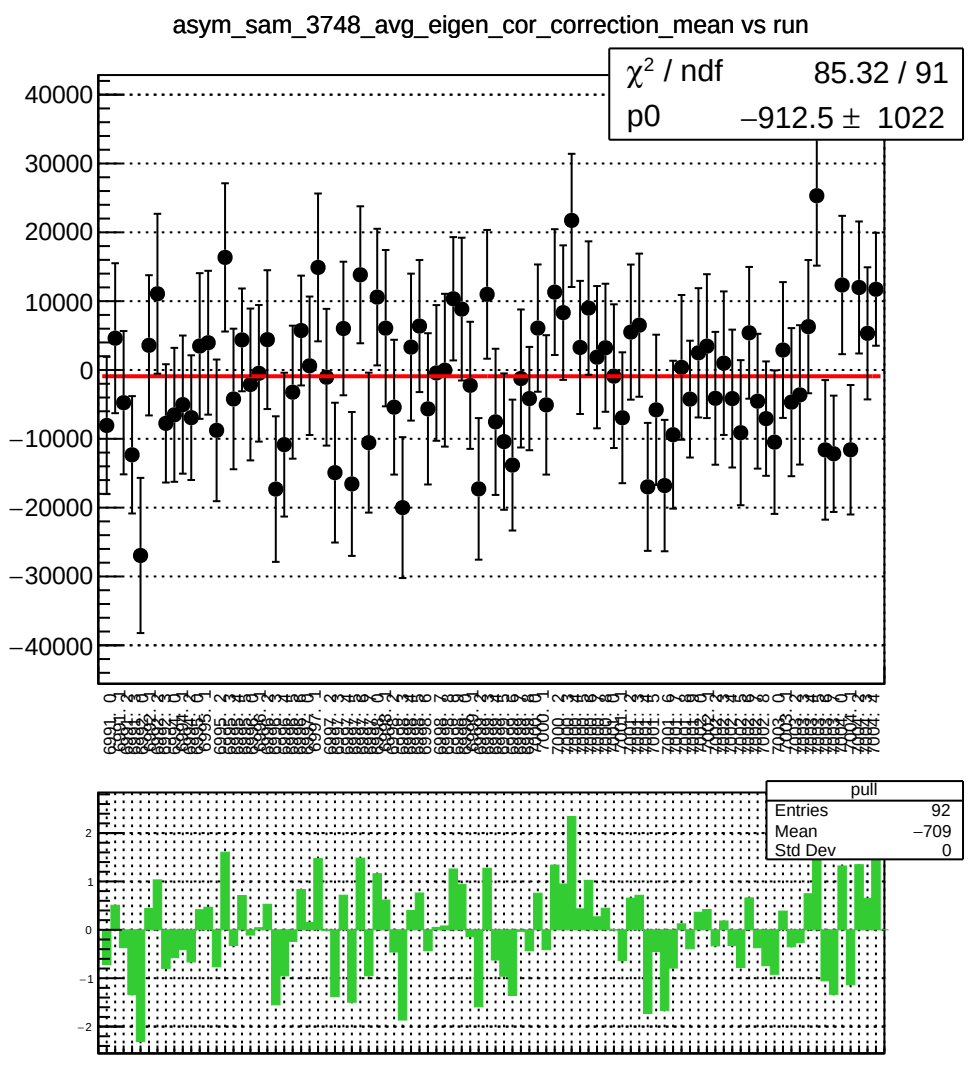

pull1D
Entries 92
Mean −0.003798
Std Dev 0.963

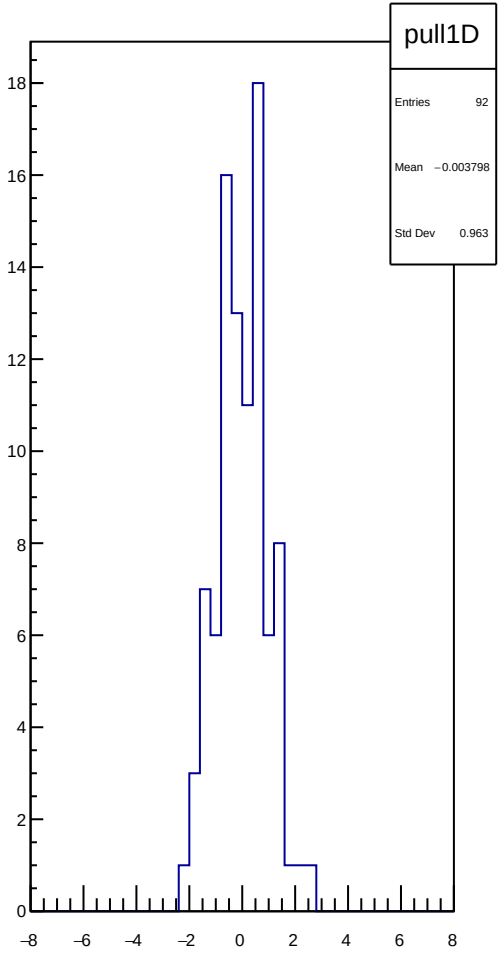

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 4733 / 91
p0 958.8 ± 0.7226
1100
1050
1000
950
900
850

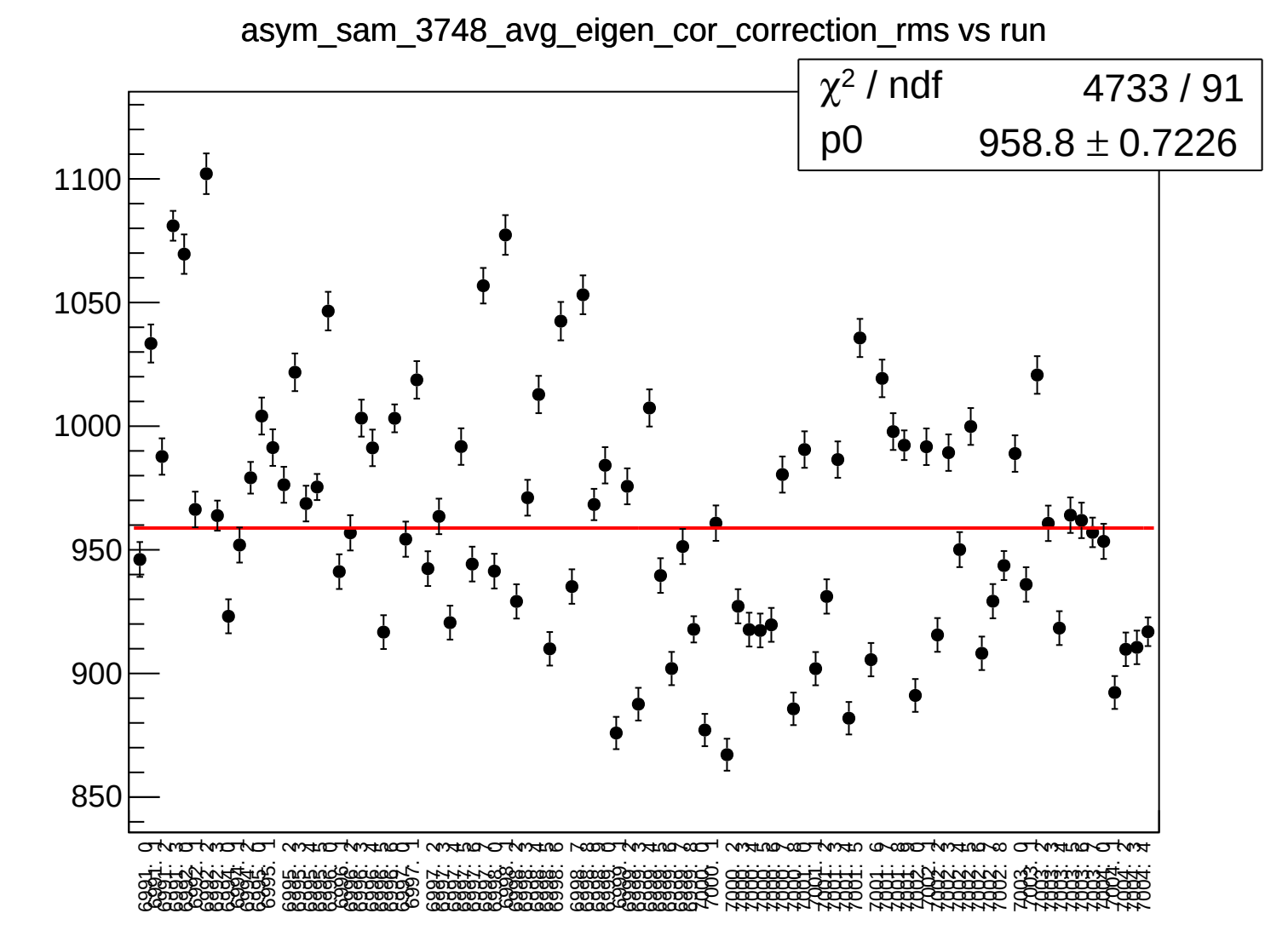

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 95.01 / 91
p0 32.56 ± 96.98
pull
Entries 92
Mean −225
Std Dev 0

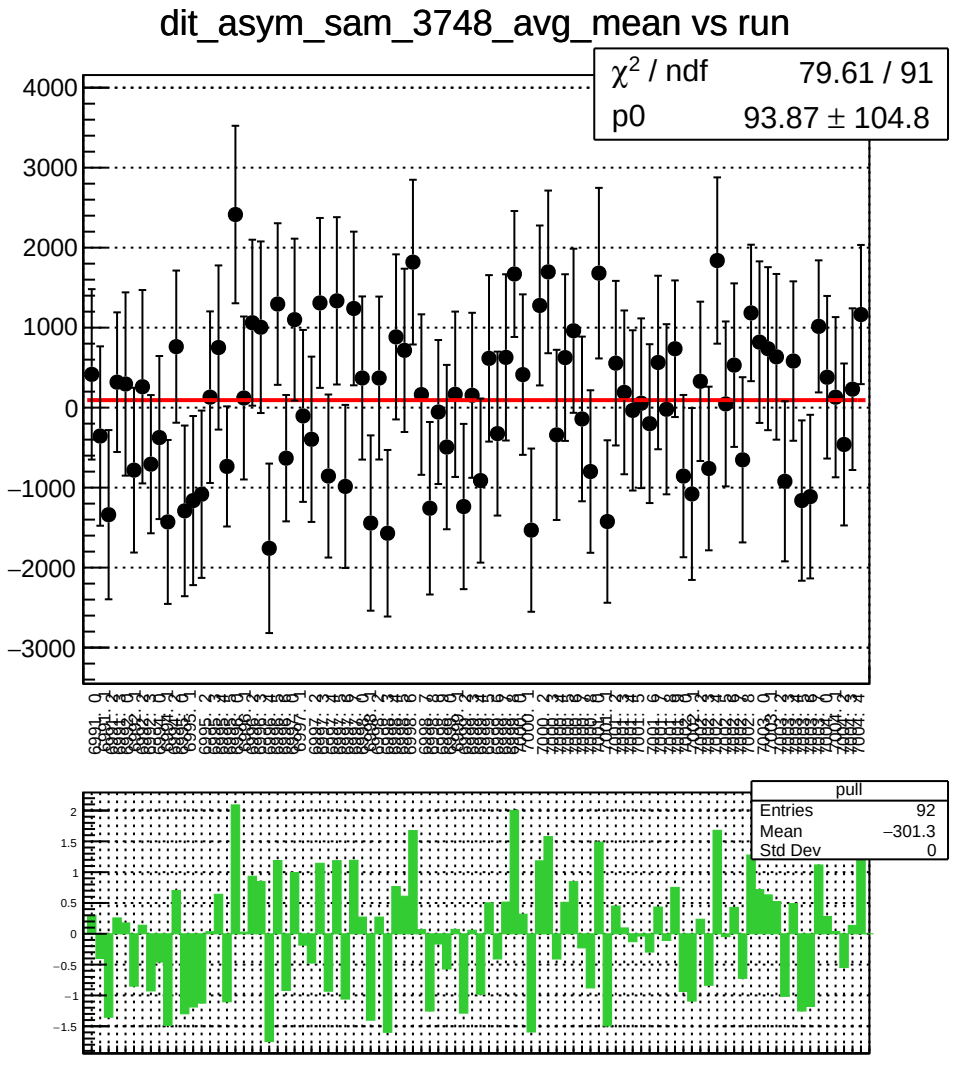

pull1D
Entries 92
Mean −0.009456
Std Dev 1.016

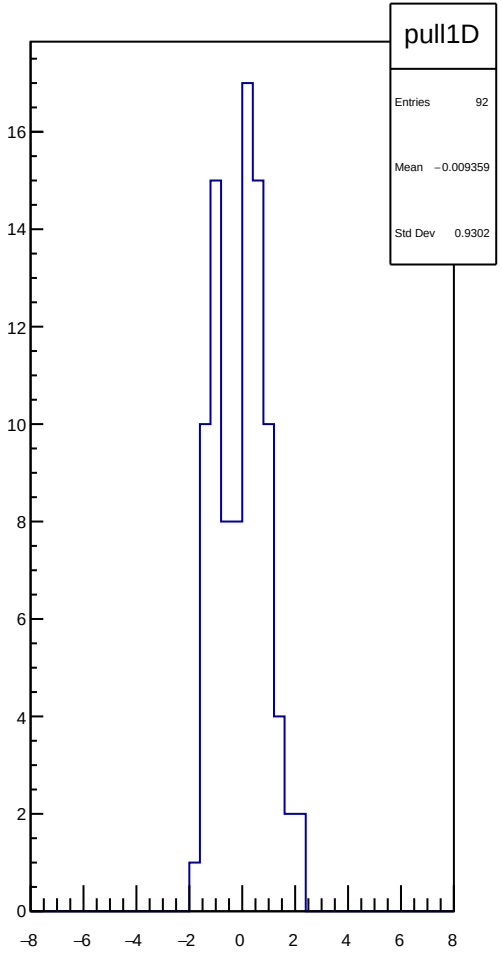

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1996 / 91
p0 91.06 ± 0.06858
100
98
96
94
92
90
88
86

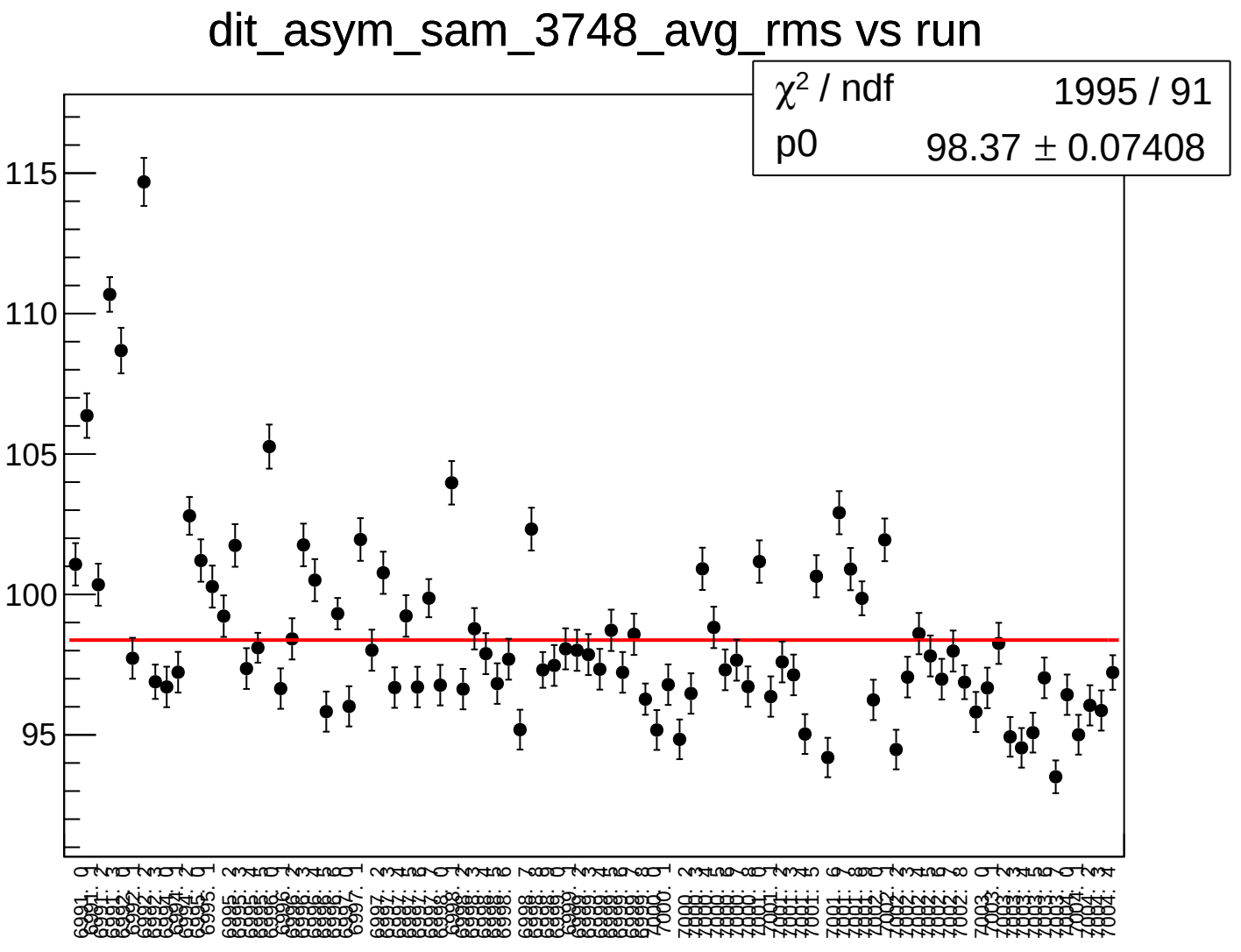

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.32 / 91
p0 −912.5 ± 1022
pull
Entries 92
Mean −709
Std Dev 0

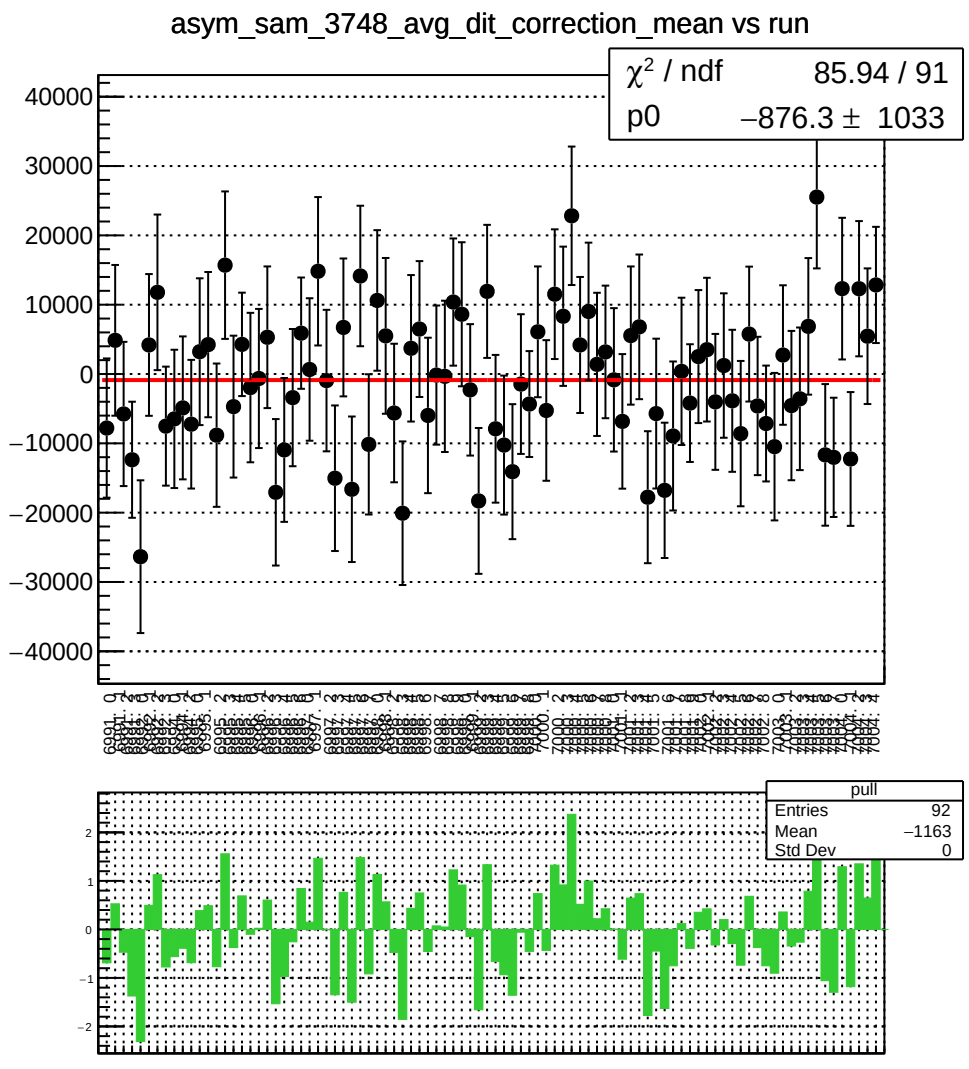

pull1D
Entries 92
Mean −0.003798
Std Dev 0.963

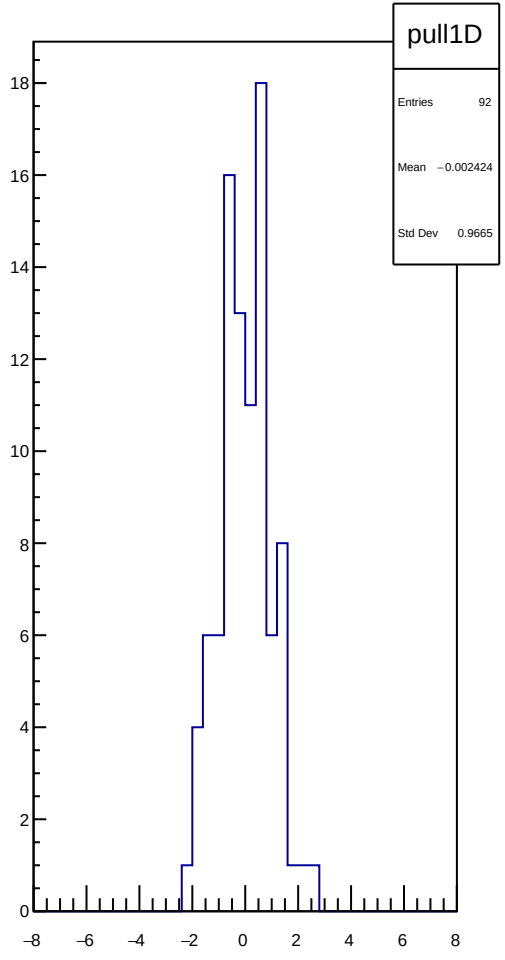

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 4733 / 91
p0 958.8 ± 0.7226
1100
1050
1000
950
900
850

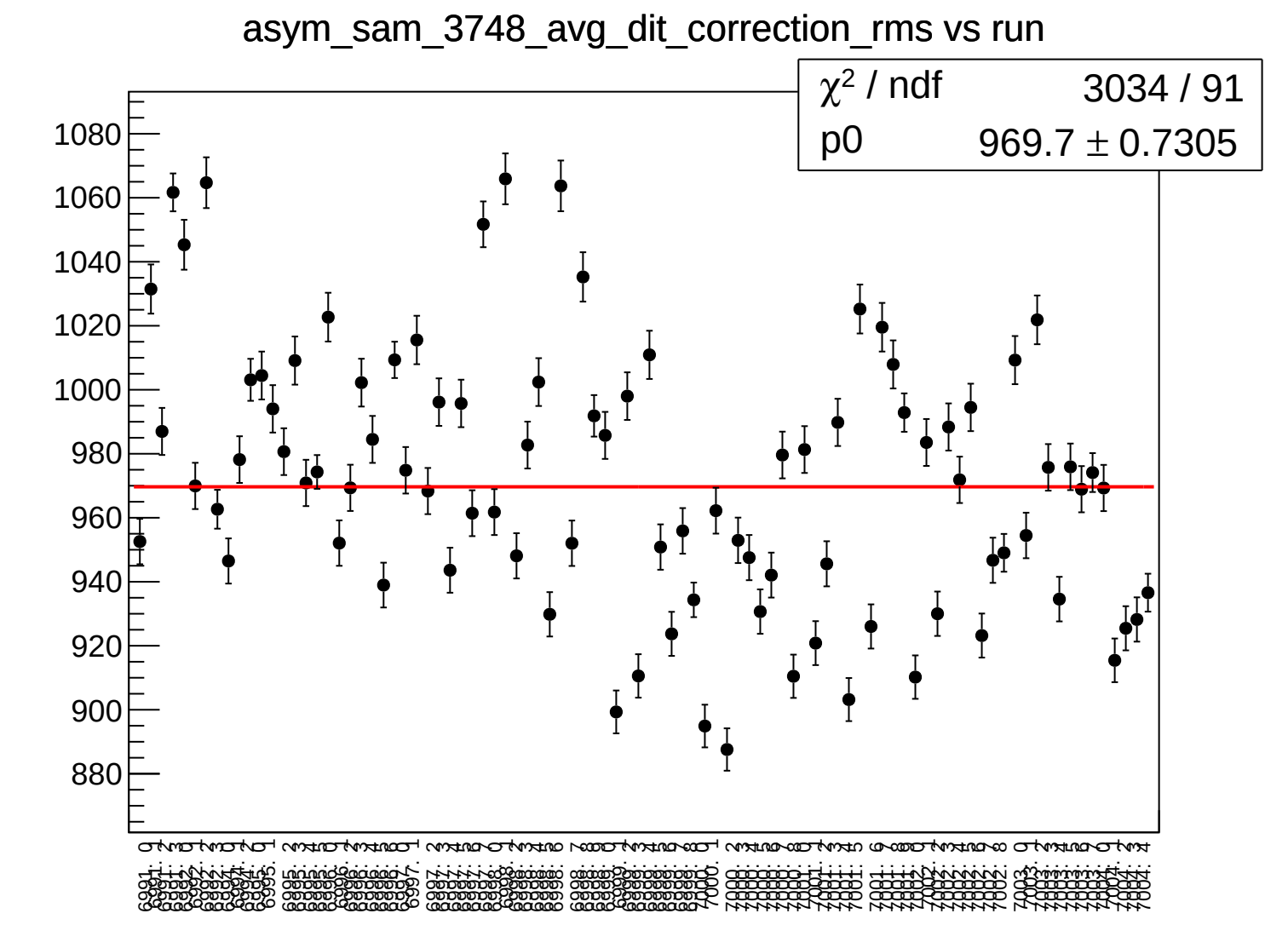

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 79.61 / 91
p0 93.87 ± 104.8
pull
Entries 92
Mean −301.3
Std Dev 0

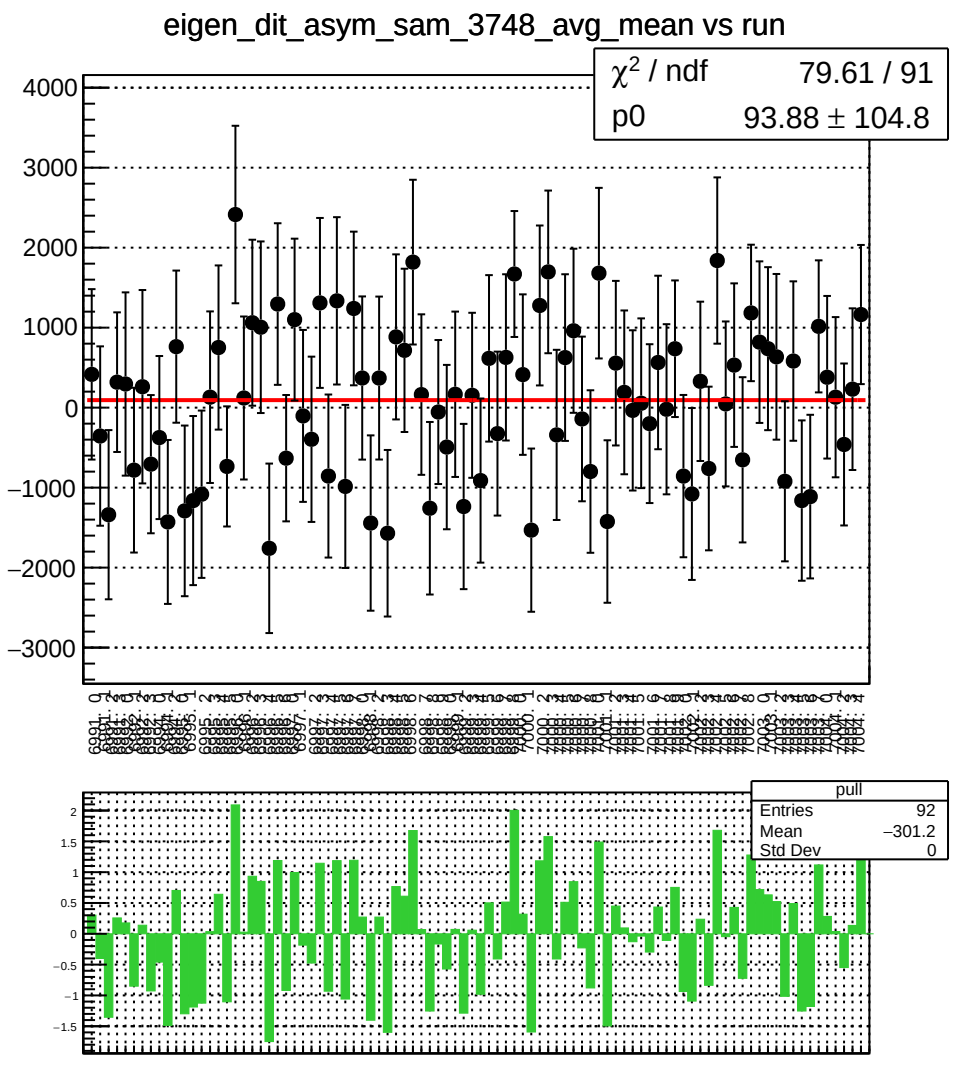

pull1D
Entries 92
Mean −0.009359
Std Dev 0.9302

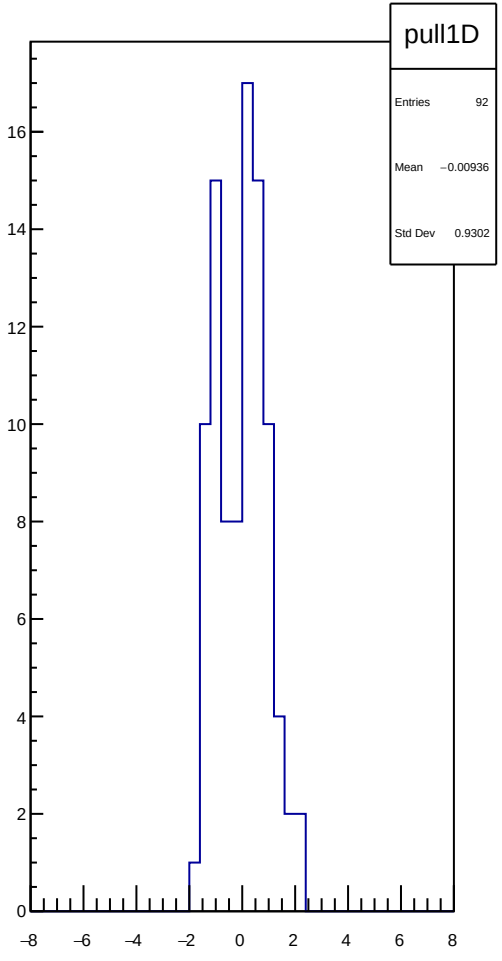

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1995 / 91
p0 98.37 ± 0.07408
115
110
105
100
95

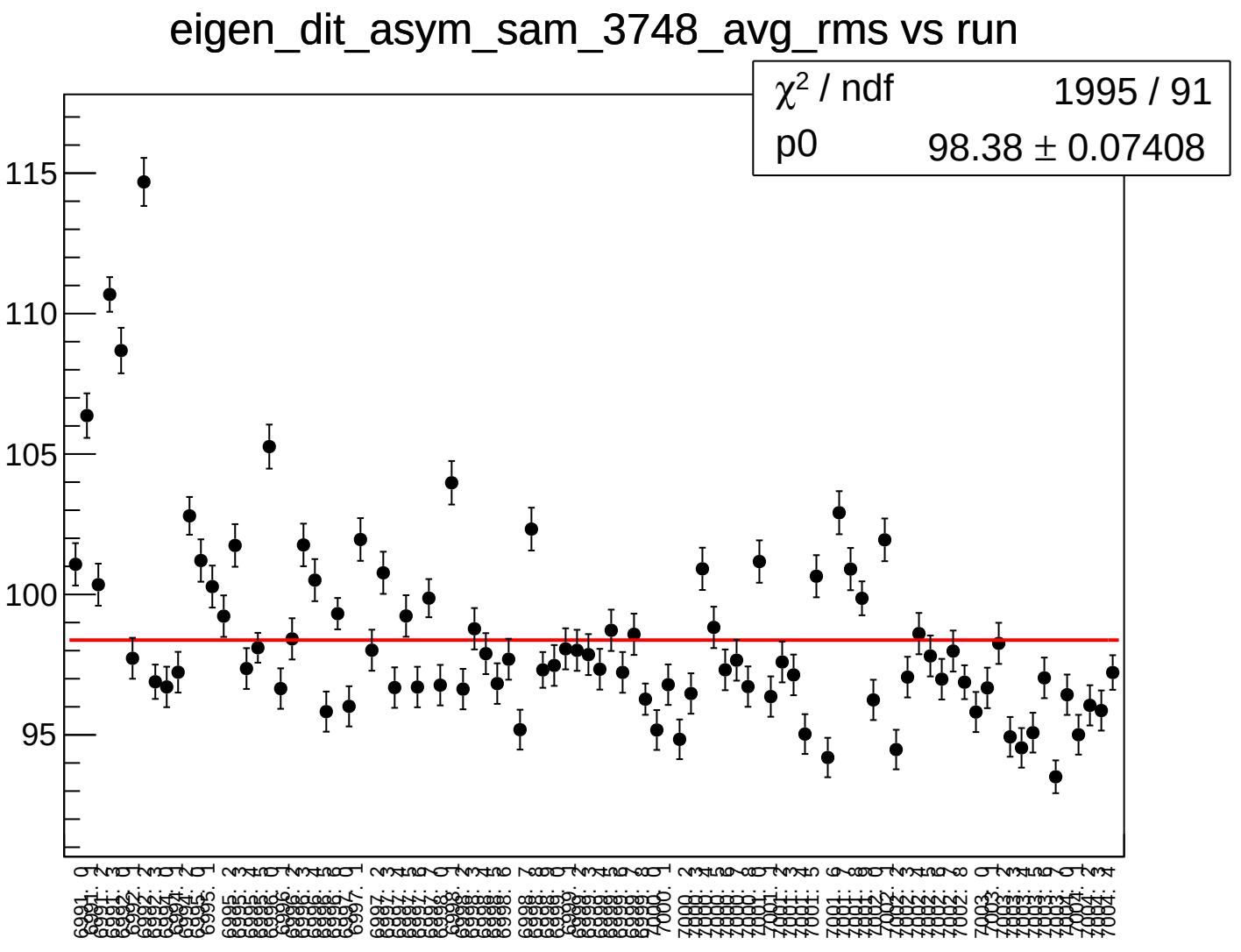

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 85.94 / 91
p0 −876.3 ± 1033
pull
Entries 92
Mean −1163
Std Dev 0

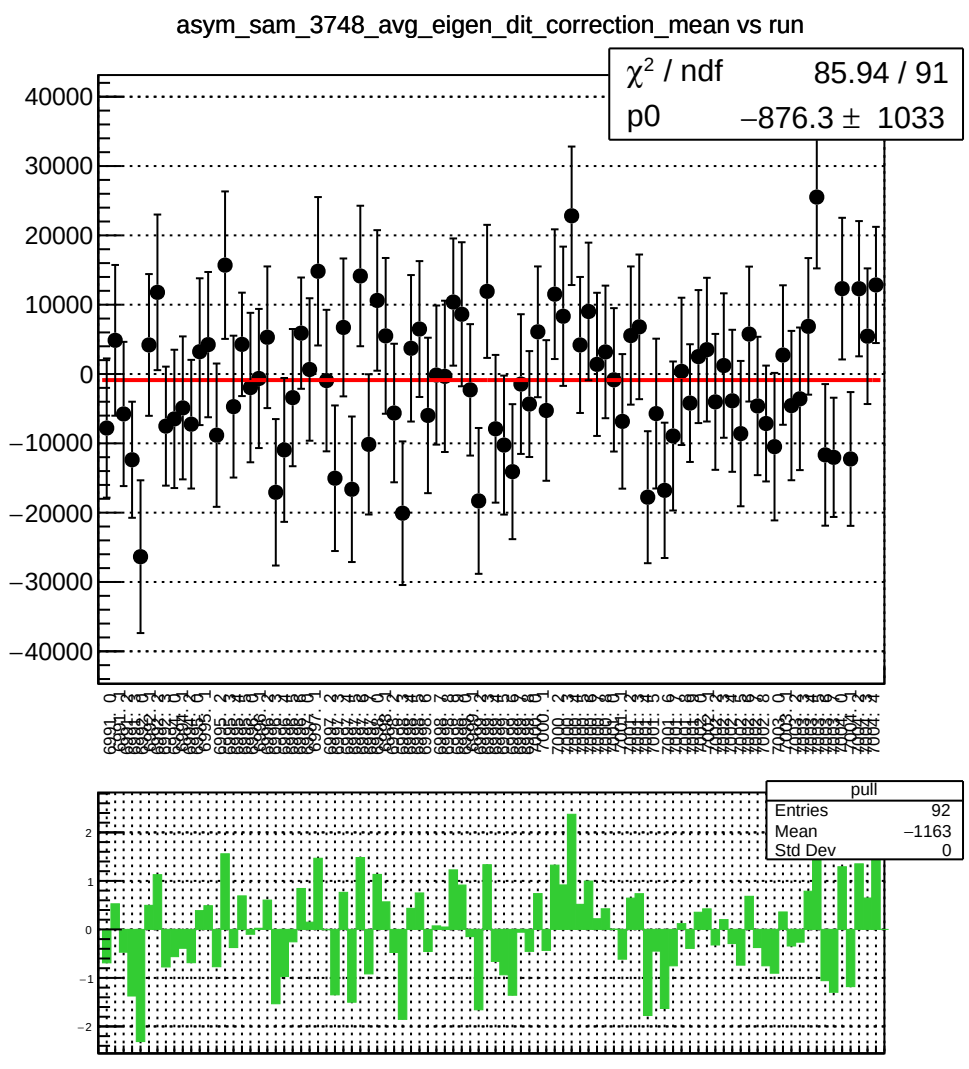

pull1D
Entries 92
Mean −0.002424
Std Dev 0.9665

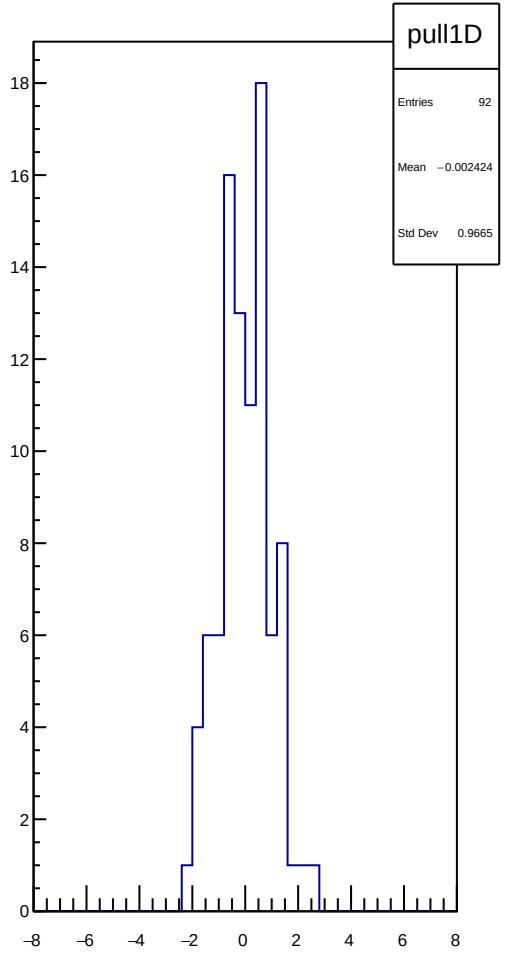

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 3034 / 91
p0 969.7 ± 0.7305
1080
1060
1040
1020
1000
980
960
940
920
900
880

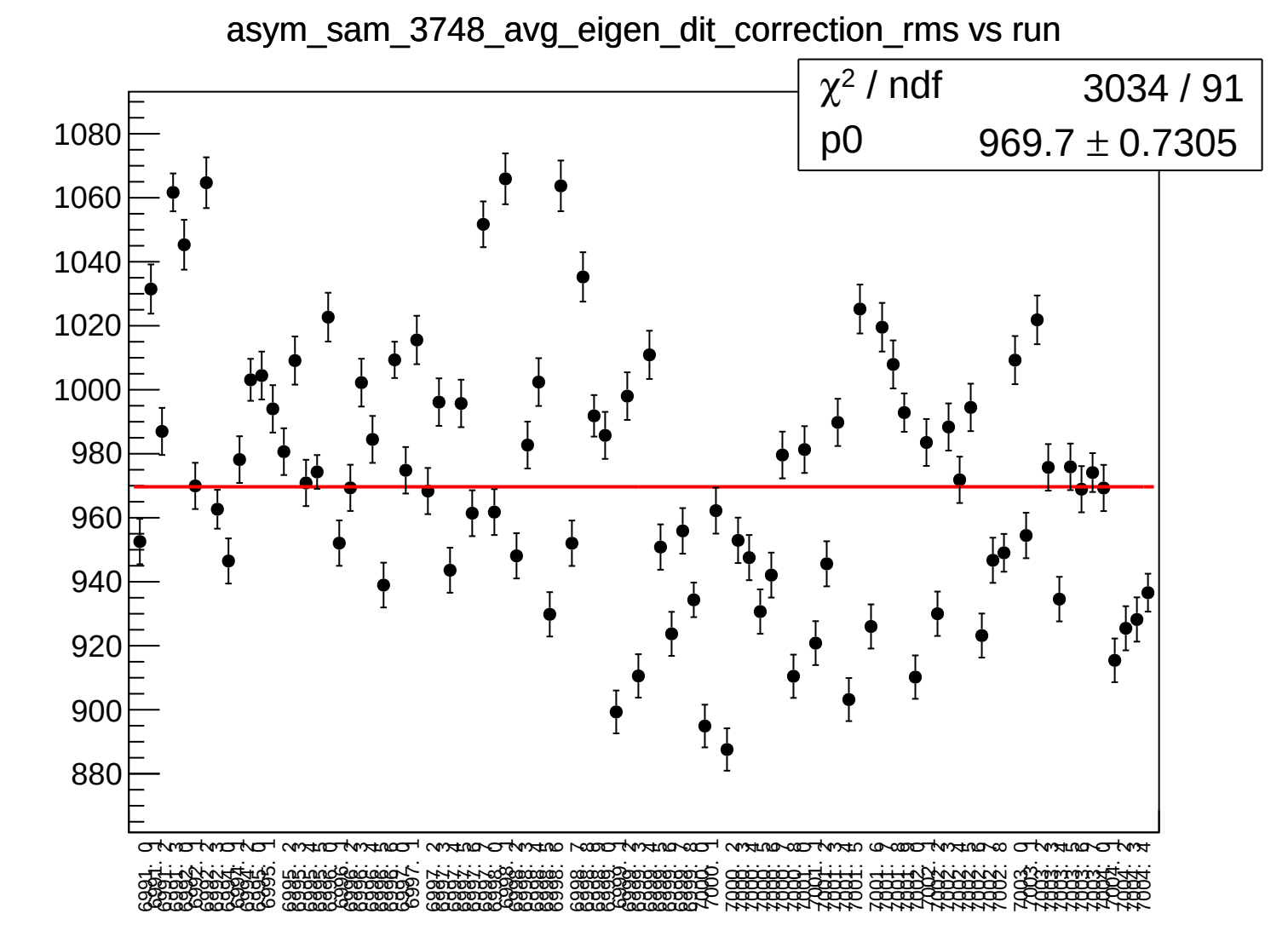

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 79.61 / 91
p0 93.88 ± 104.8
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −301.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

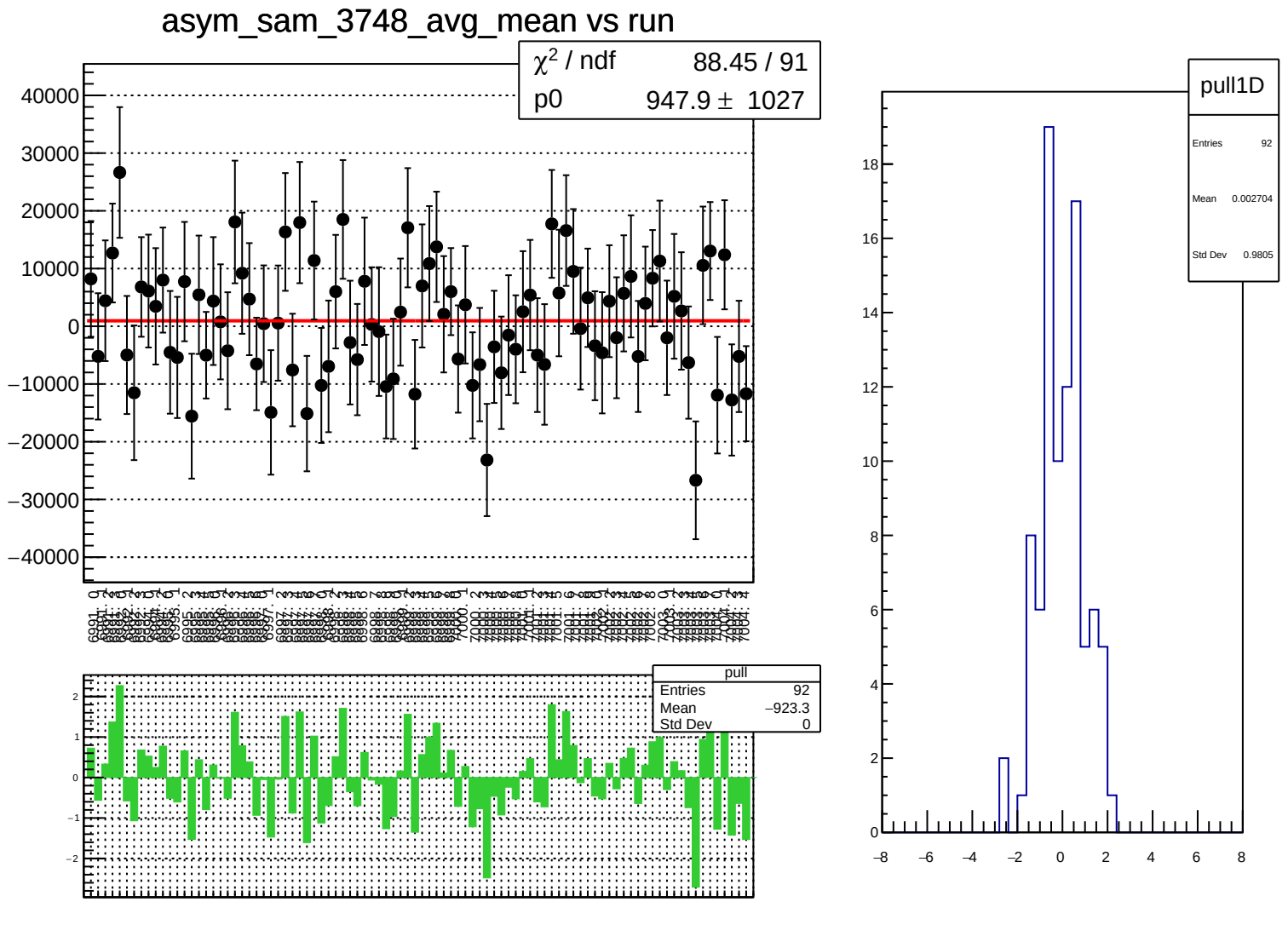

pull1D
Entries 92
Mean −0.00936
Std Dev 0.9302
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

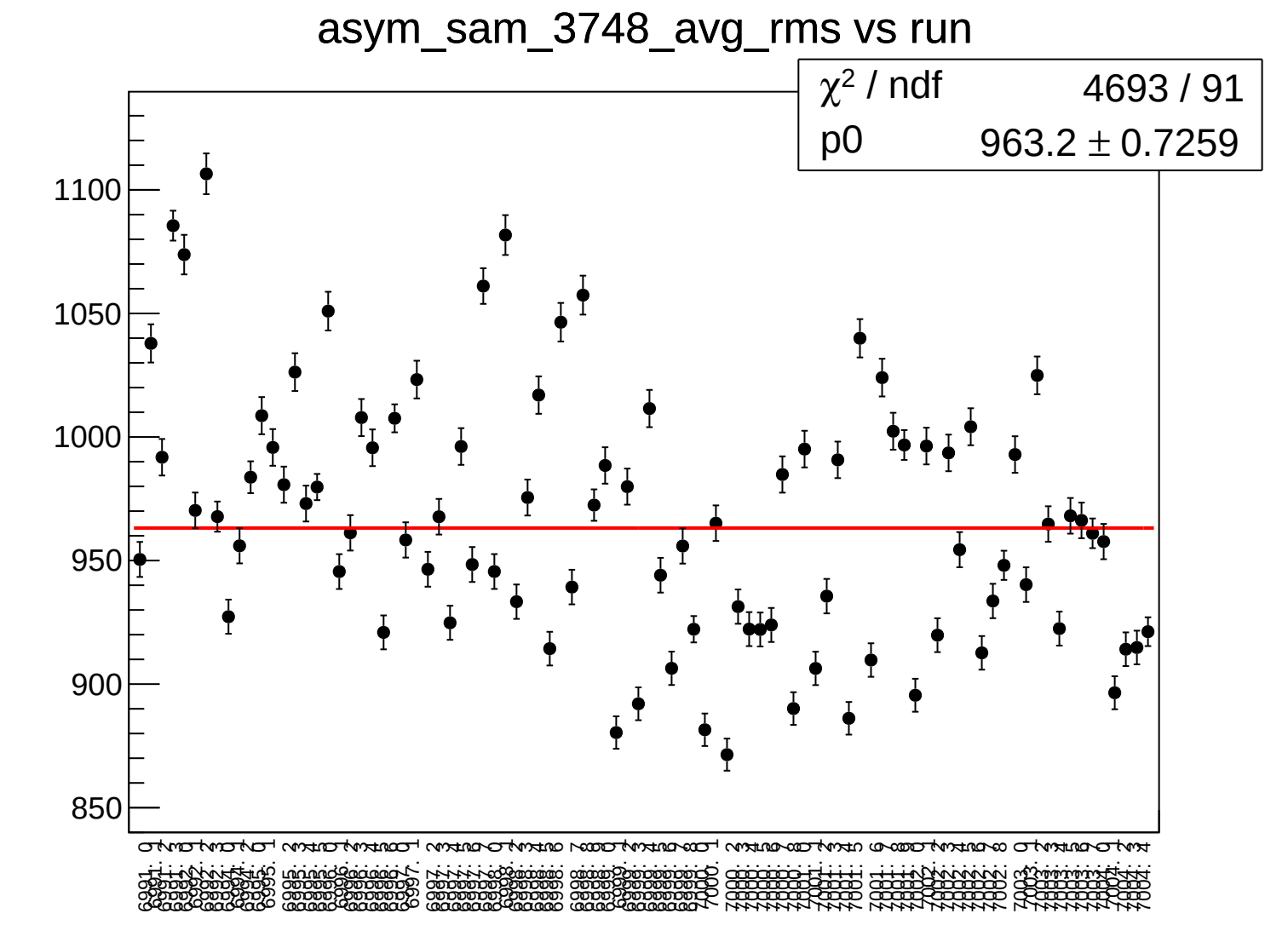

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1995 / 91
p0 98.38 ± 0.07408
115
110
105
100
95

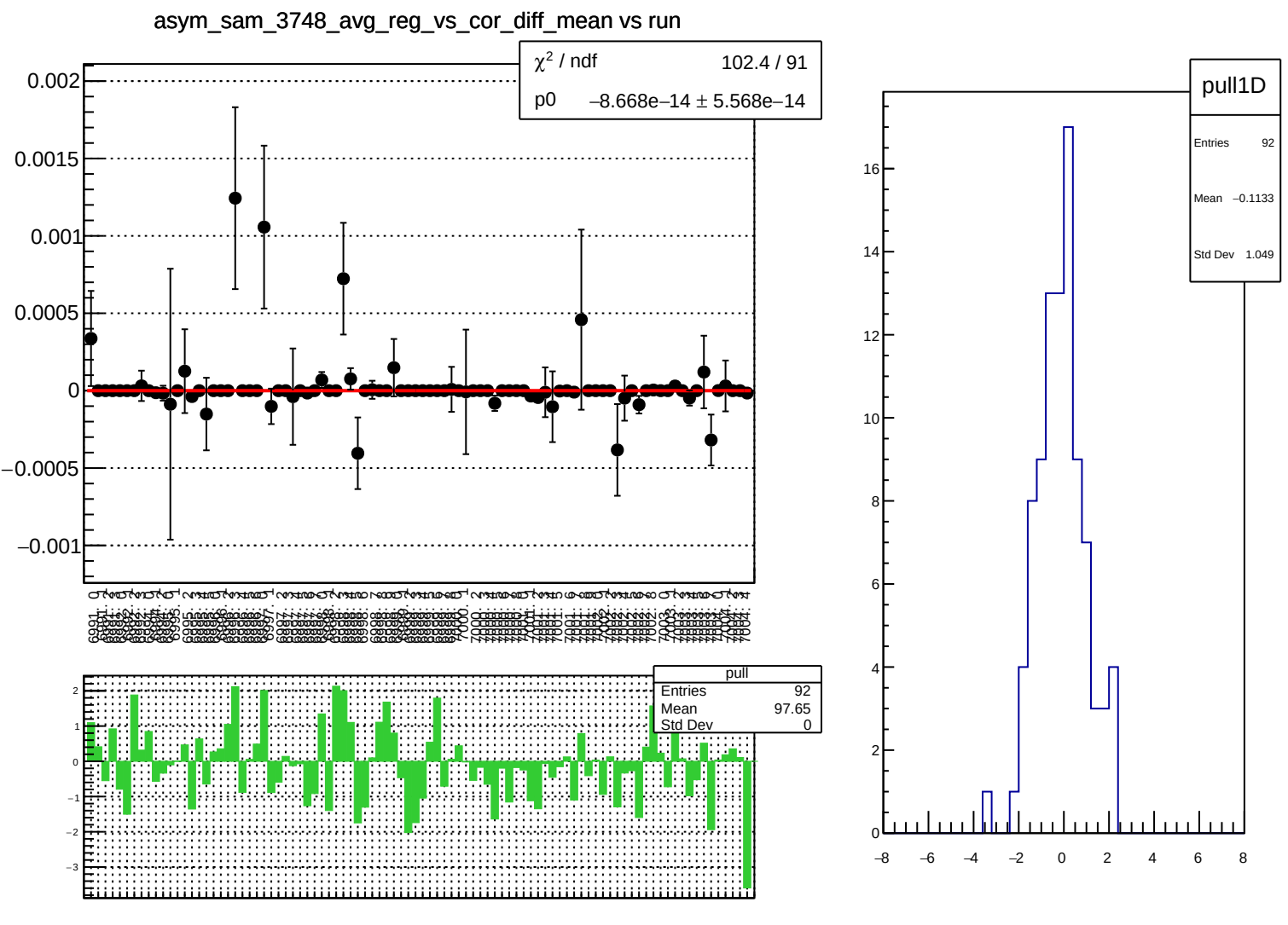

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.94 / 91
p0 −876.3 ± 1033
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1163
Std Dev 0
2
1
0
−1
−2

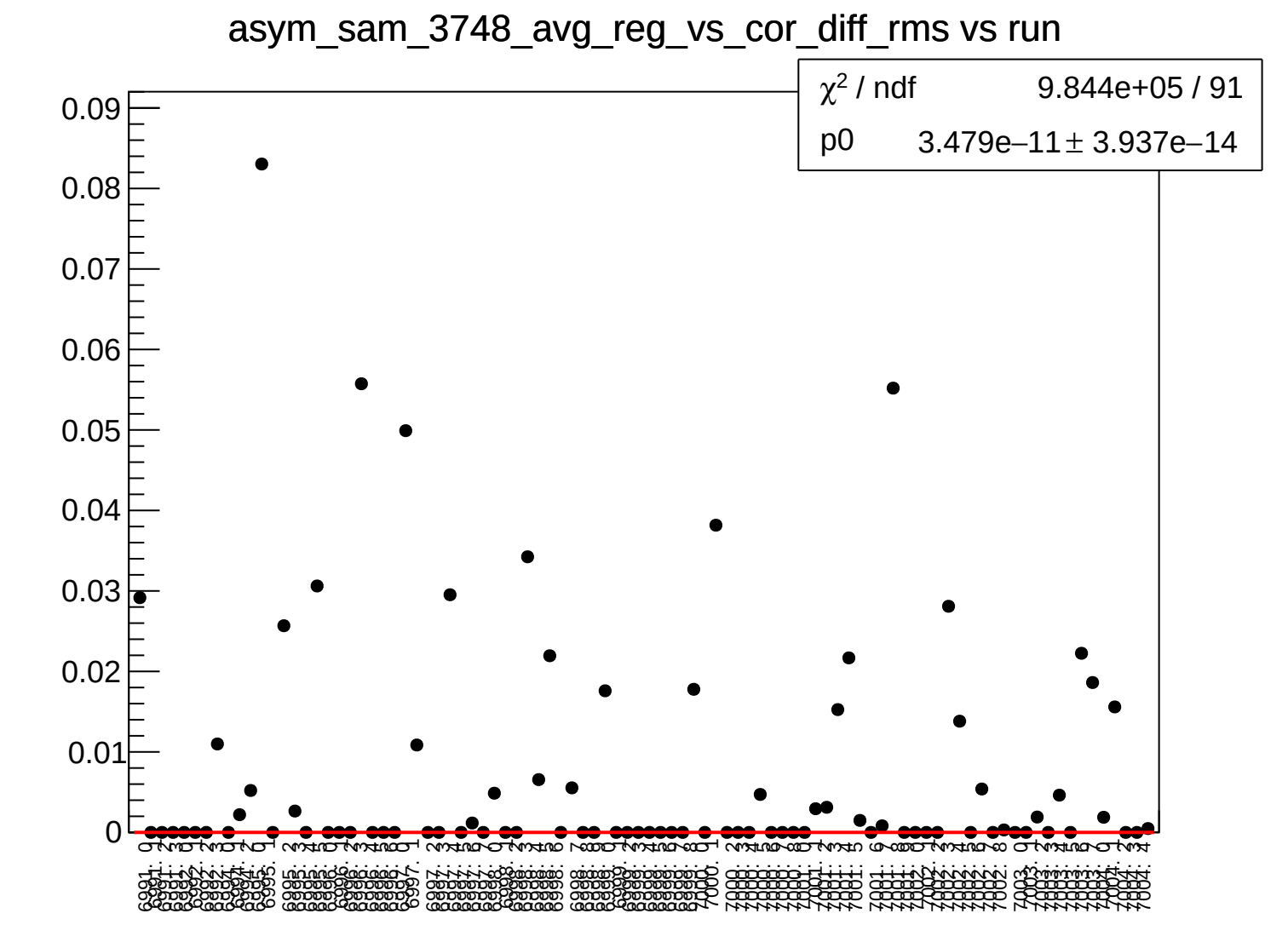

pull1D
Entries 92
Mean −0.002424
Std Dev 0.9665
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

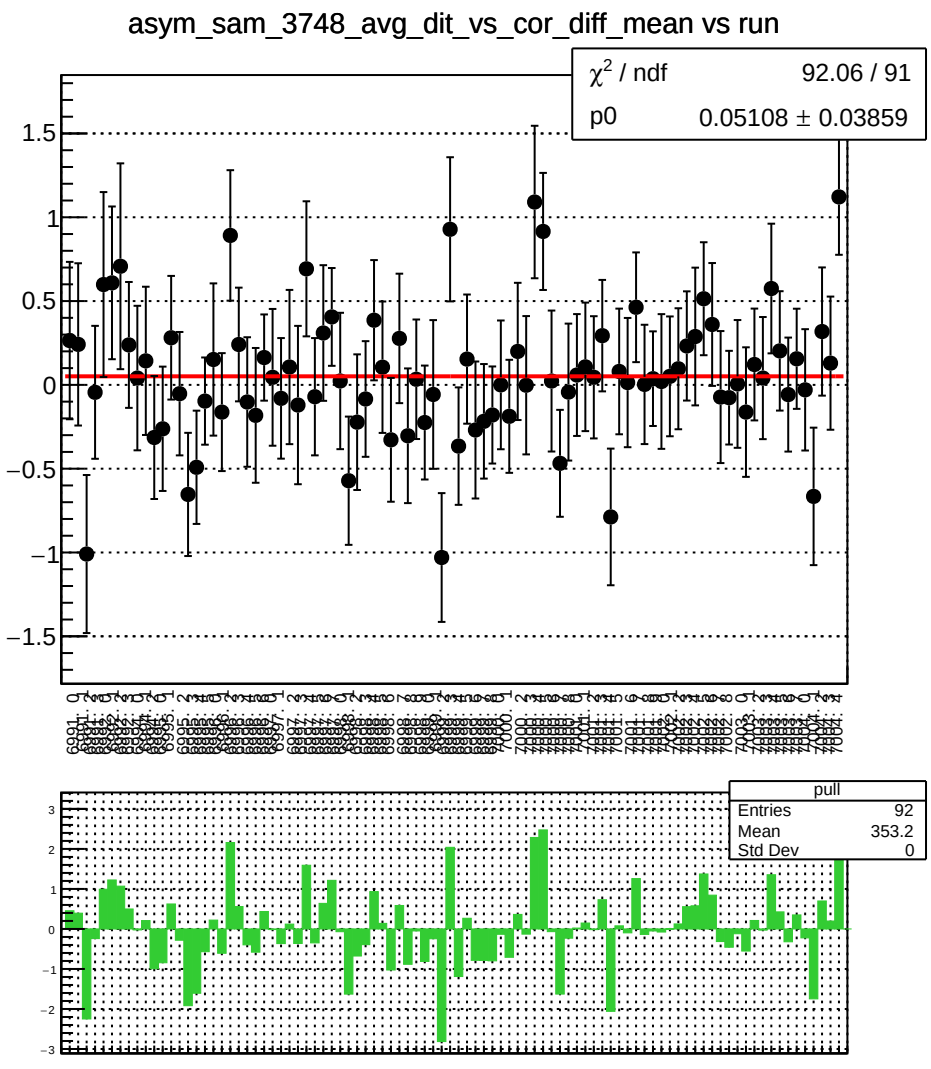

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3034 / 91
p0 969.7 ± 0.7305
1080
1060
1040
1020
1000
980
960
940
920
900
880

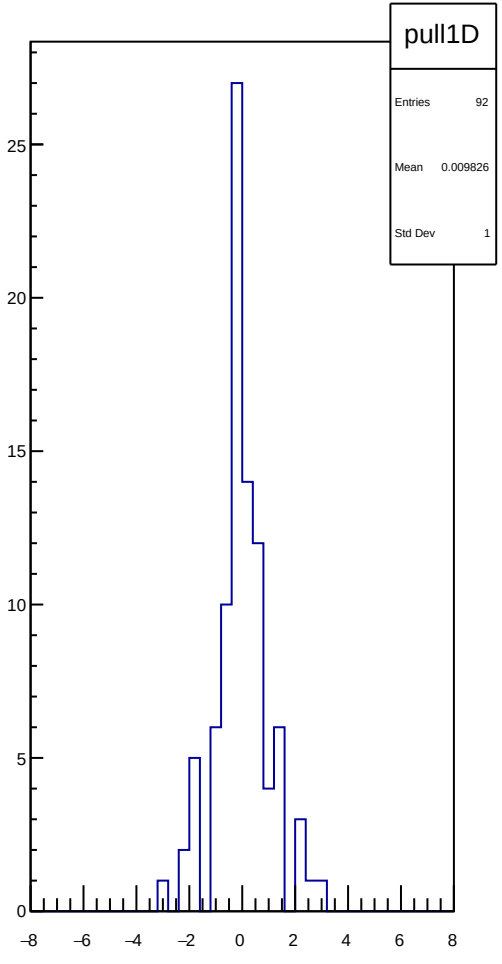

asym_sam_3748_avg_mean vs run
χ² / ndf 88.45 / 91
p0 947.9 ± 1027
pull
Entries 92
Mean −923.3
Std Dev 0
pull1D
Entries 92
Mean 0.002704
Std Dev 0.9805

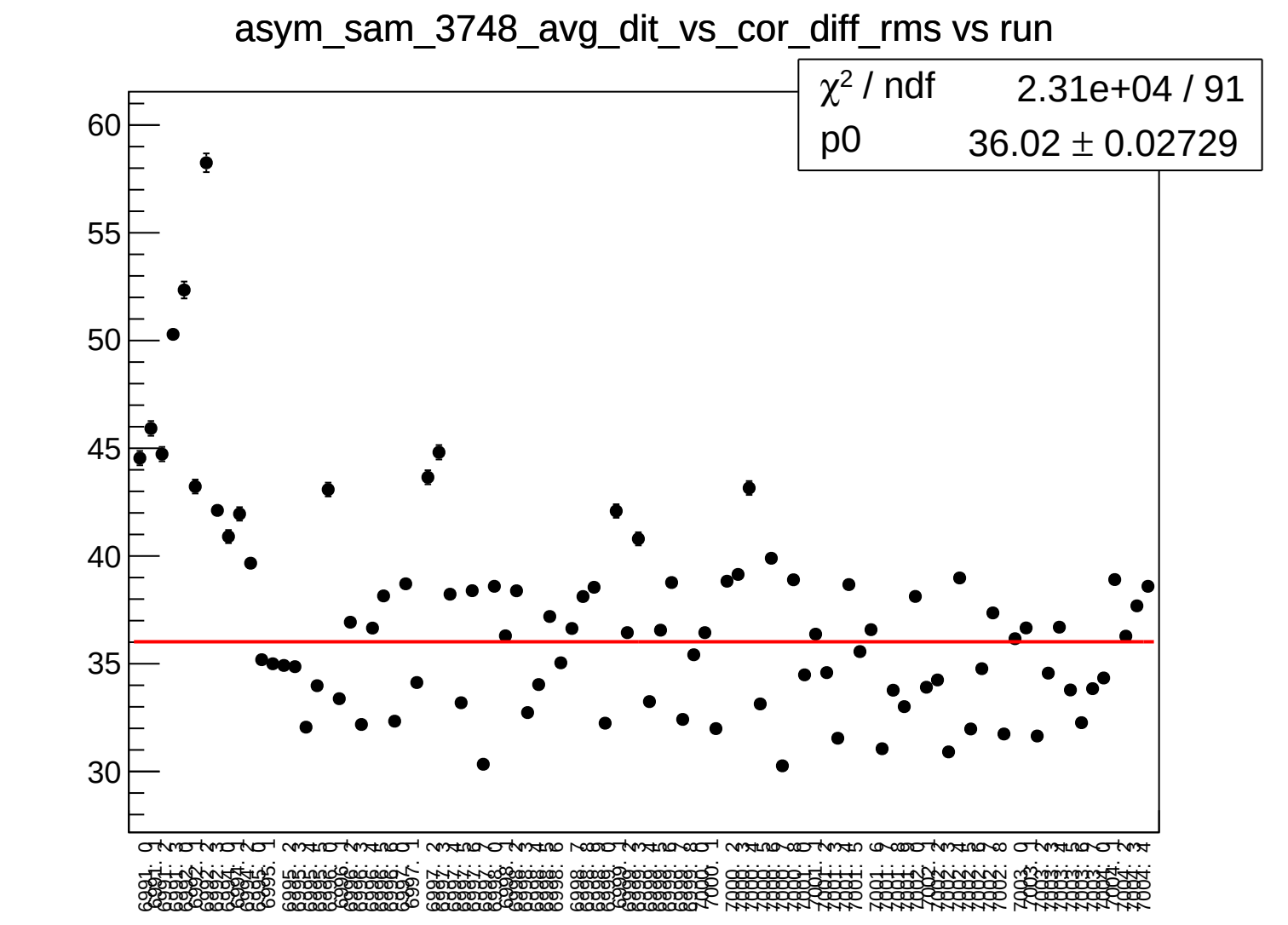

asym_sam_3748_avg_rms vs run
χ² / ndf 4693 / 91
p0 963.2 ± 0.7259
1100
1050
1000
950
900
850

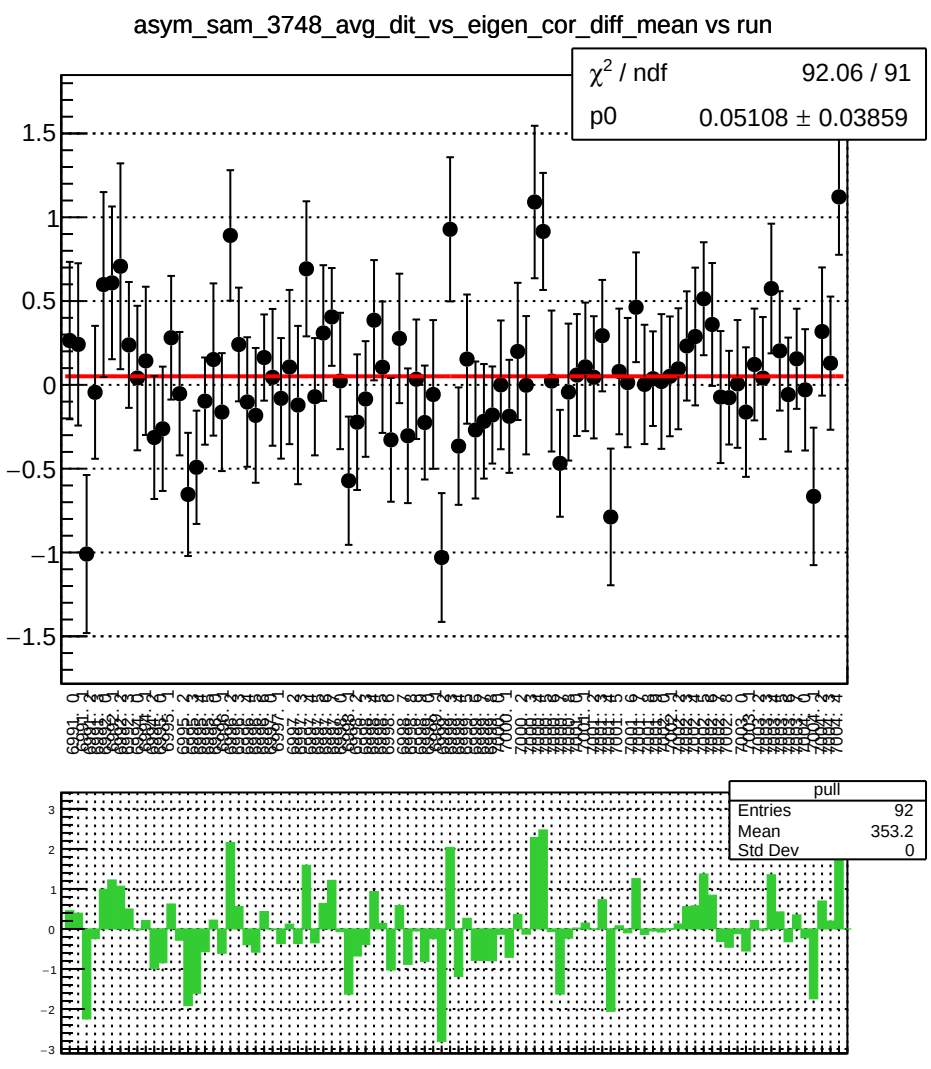

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 91
p0 −8.668e−14 ± 5.568e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 97.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.1133
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

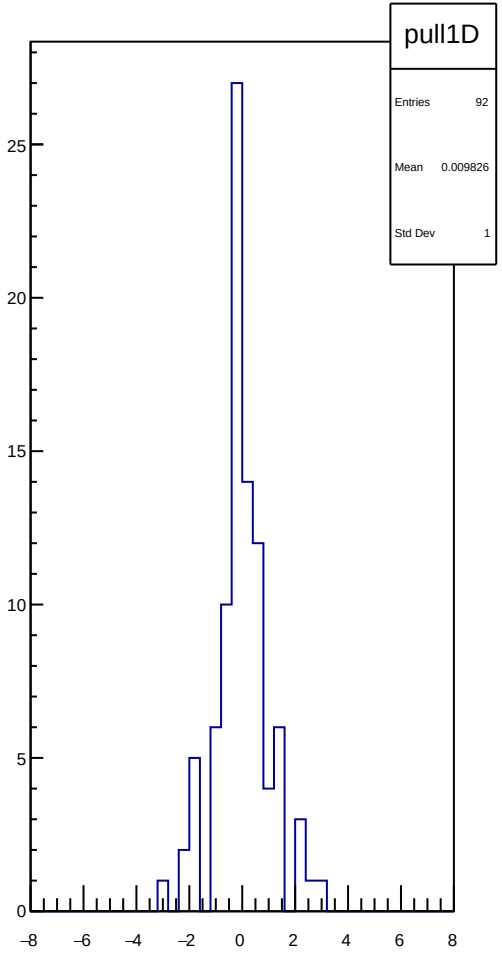

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.844e+05 / 91
p0 3.479e−11 ± 3.937e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

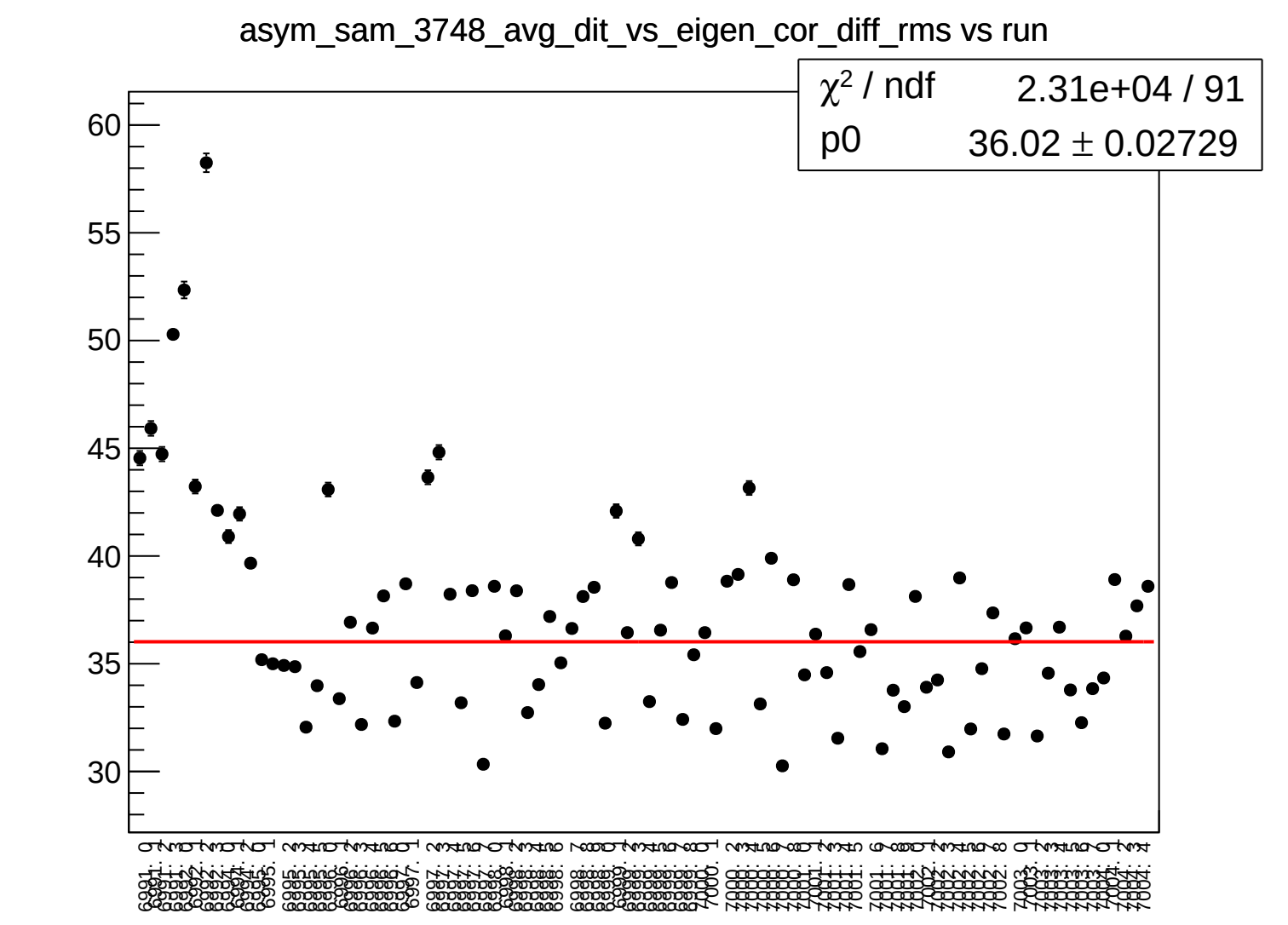

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.06 / 91
p0 0.05108 ± 0.03859
pull
Entries 92
Mean 353.2
Std Dev 0

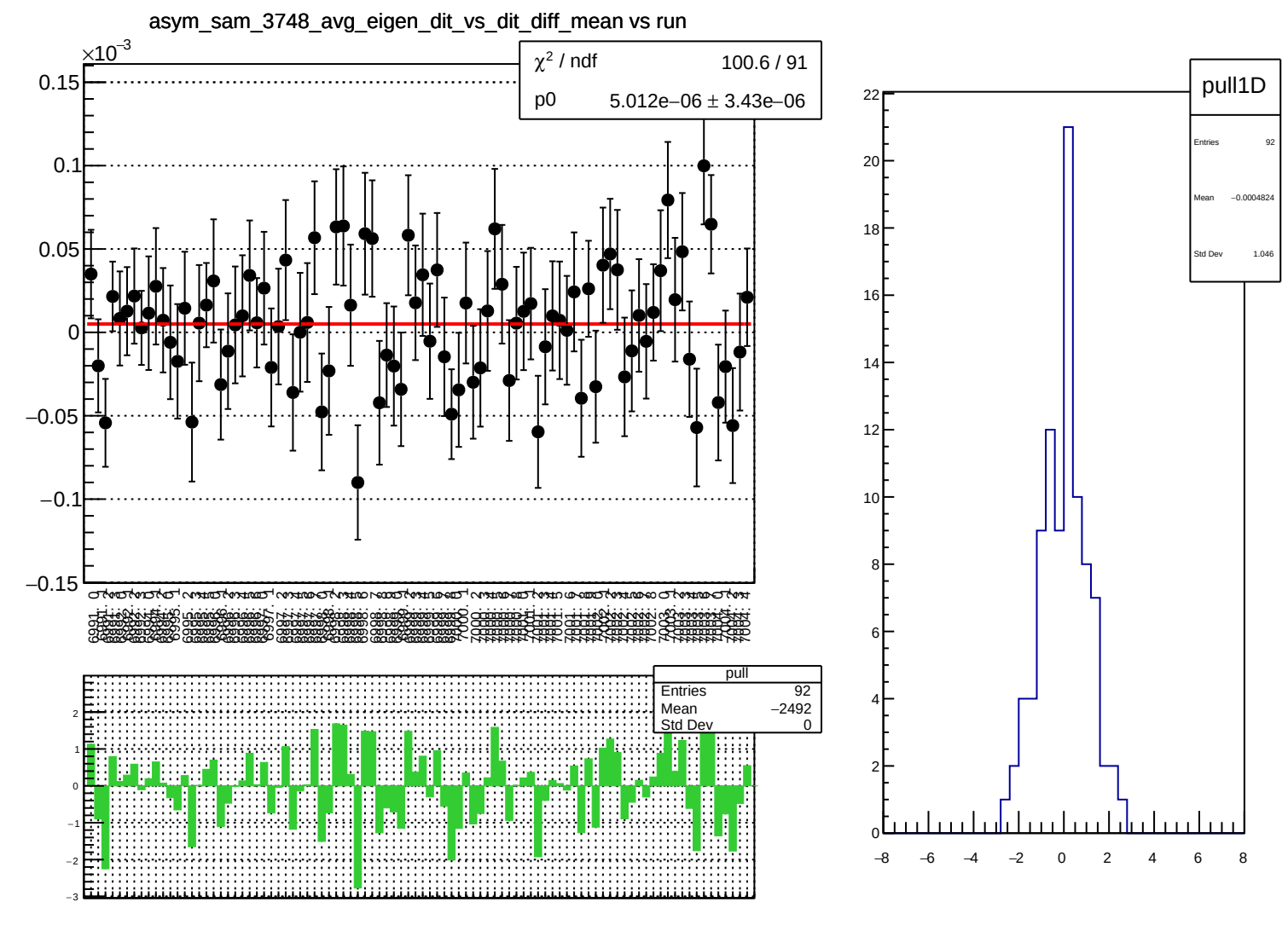

pull1D
Entries 92
Mean 0.009826
Std Dev 1

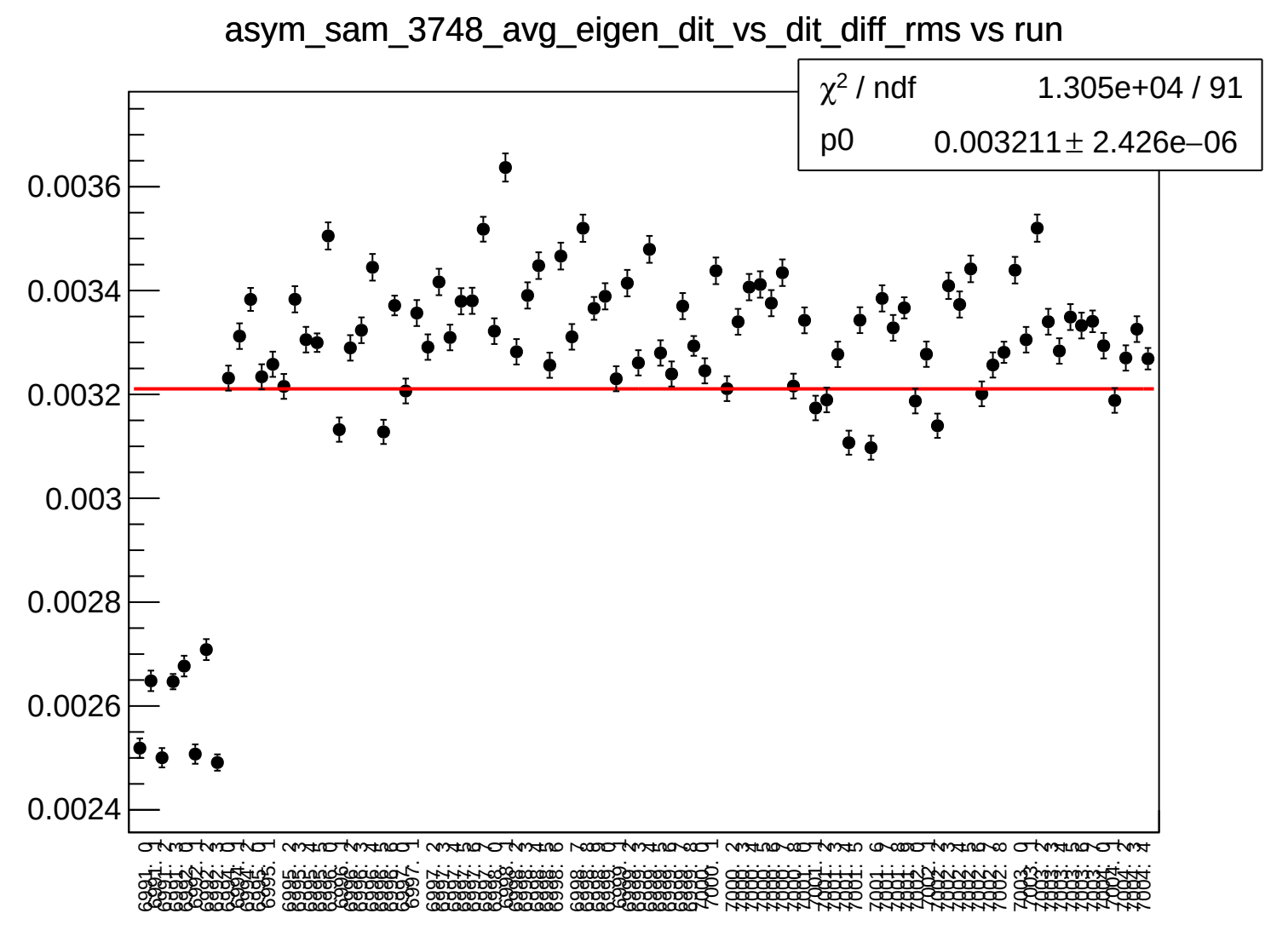

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.31e+04 / 91
p0 36.02 ± 0.02729
60
55
50
45
40
35
30

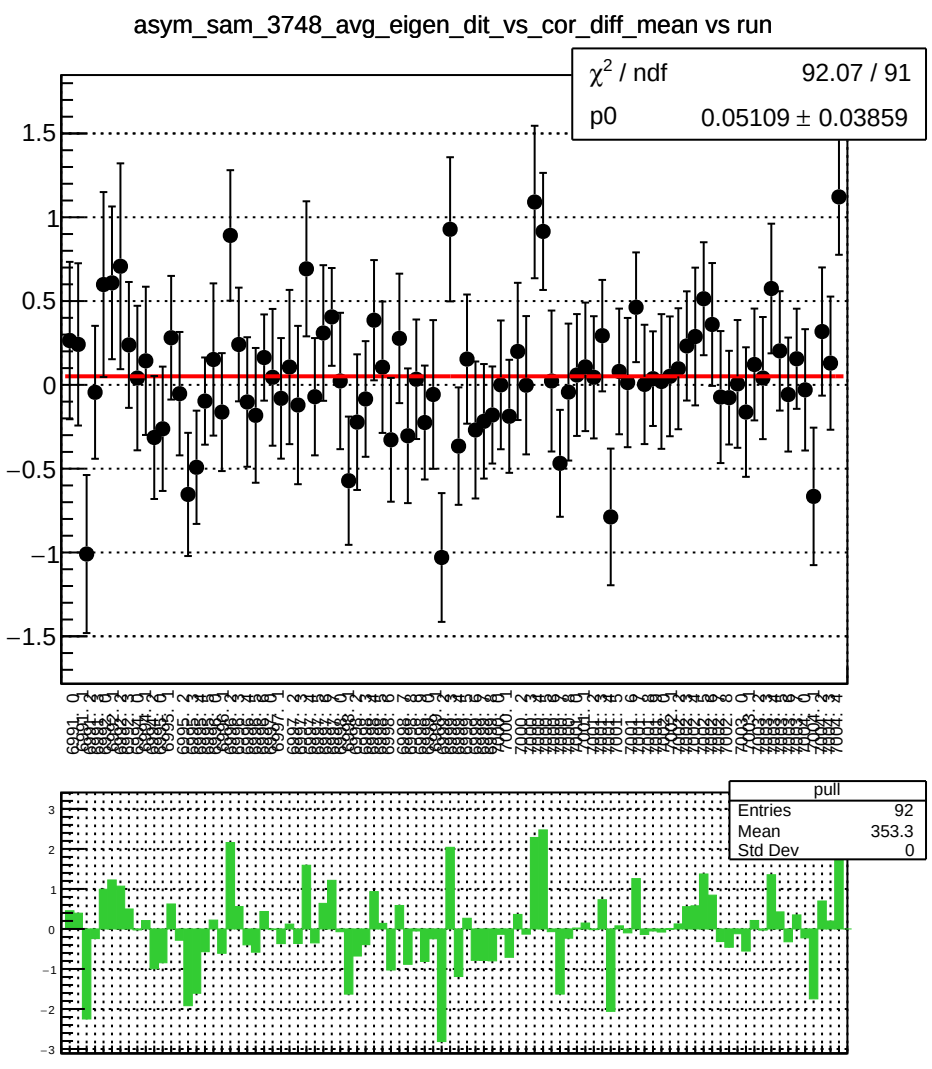

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.06 / 91
p0 0.05108 ± 0.03859
pull
Entries 92
Mean 353.2
Std Dev 0

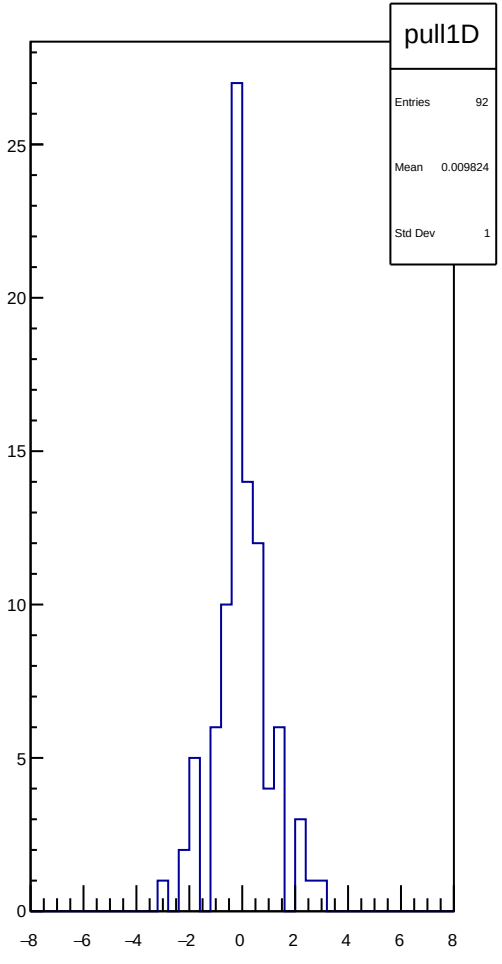

pull1D
Entries 92
Mean 0.009826
Std Dev 1

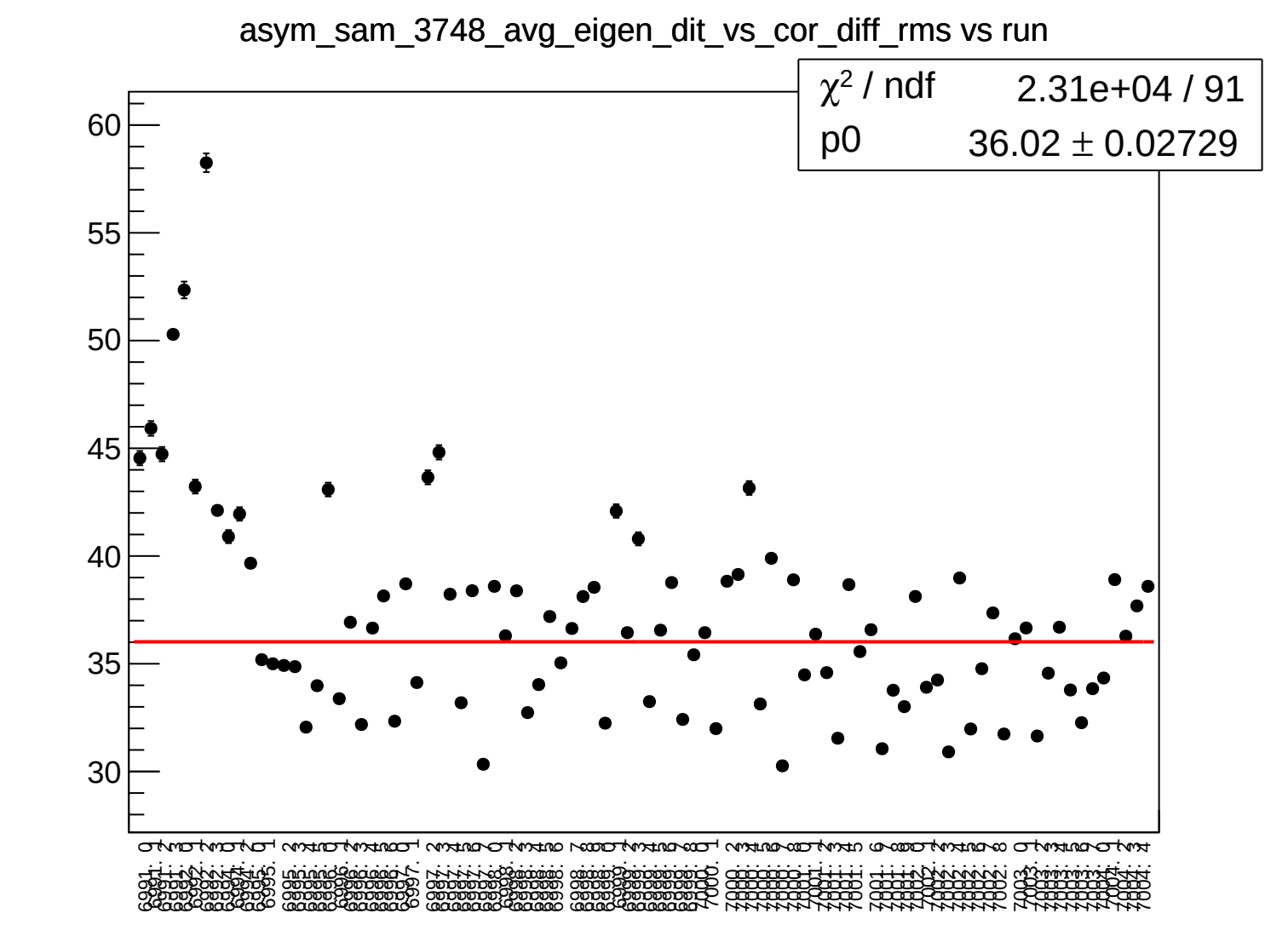

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.31e+04 / 91
p0 36.02 ± 0.02729
60
55
50
45
40
35
30

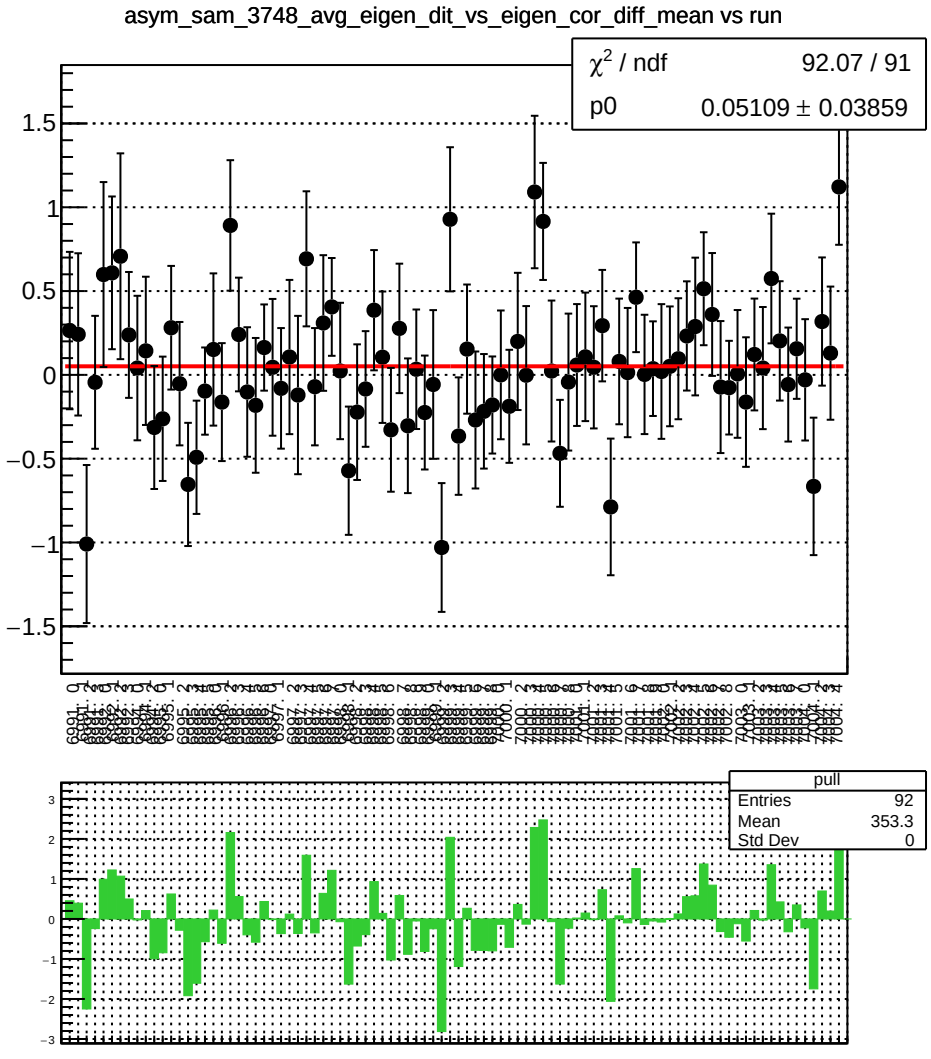

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.6 / 91
p0 5.012e−06 ± 3.43e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −2492
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0004824
Std Dev 1.046
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

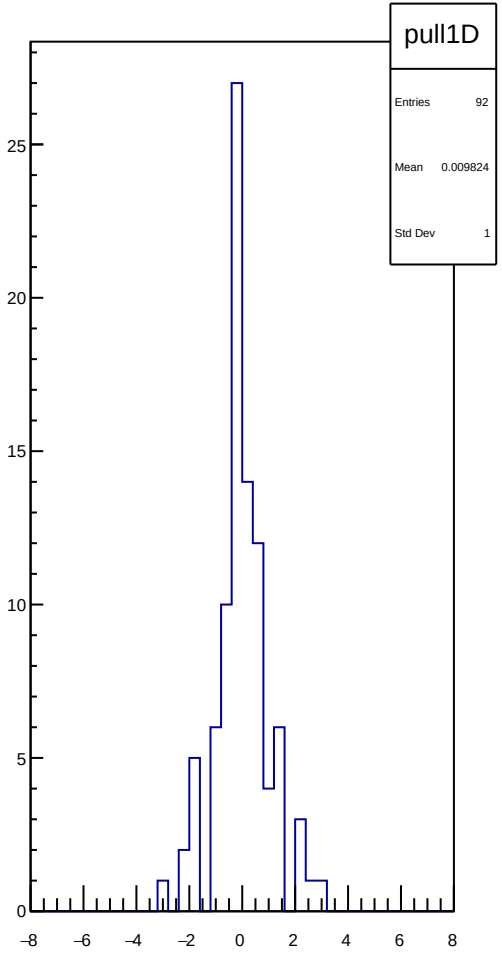

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.305e+04 / 91
p0 0.003211 ± 2.426e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

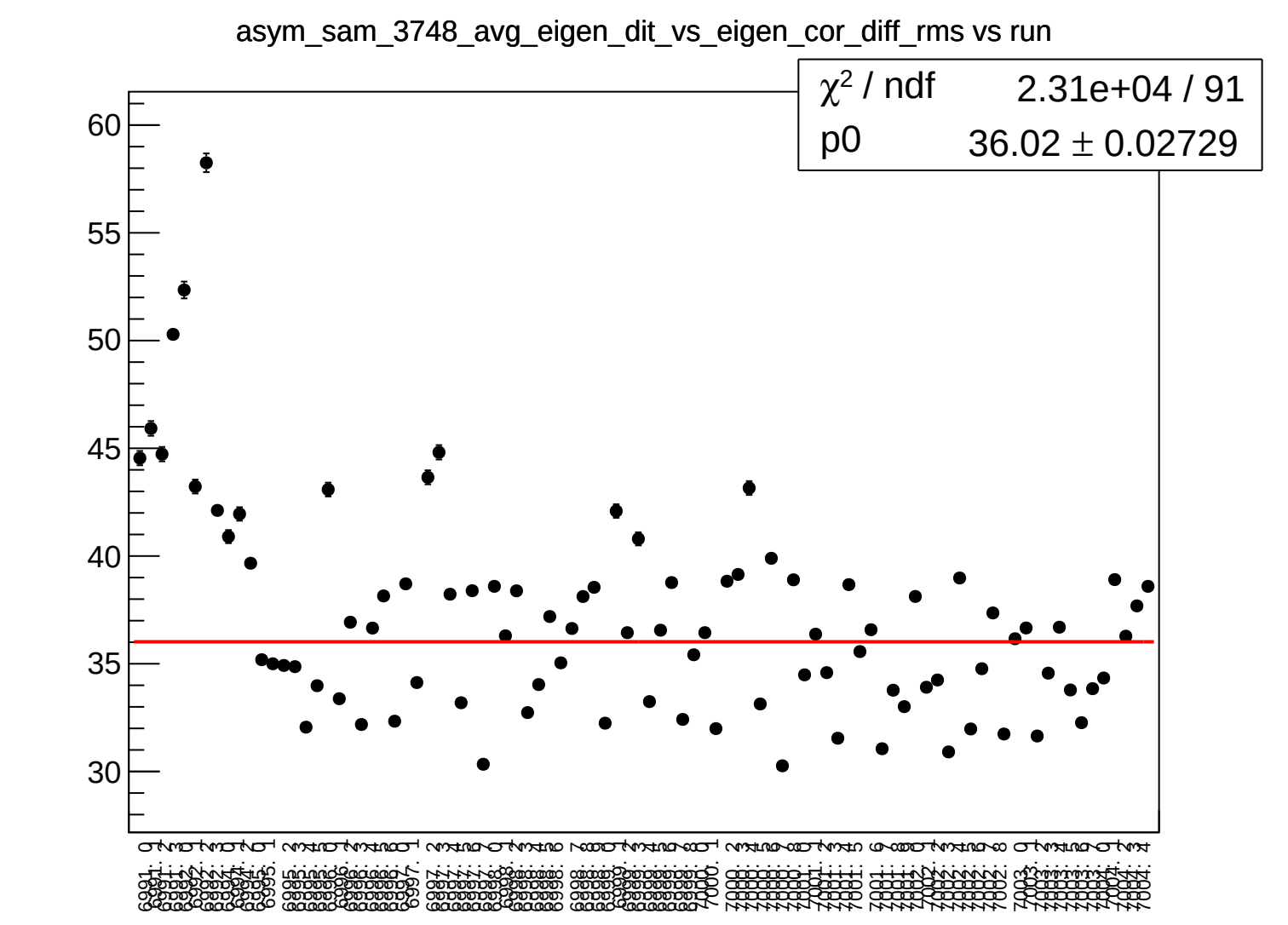

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.07 / 91
p0 0.05109 ± 0.03859
pull
Entries 92
Mean 353.3
Std Dev 0

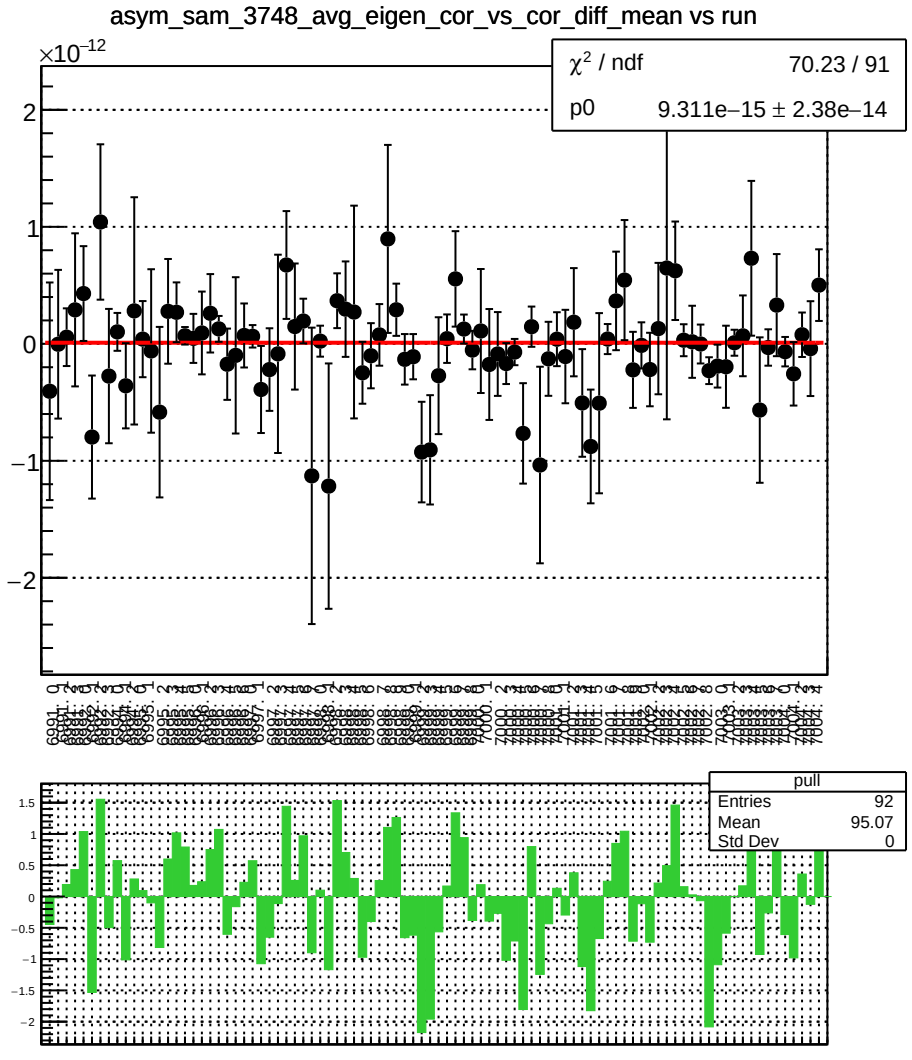

pull1D
Entries 92
Mean 0.009824
Std Dev 1

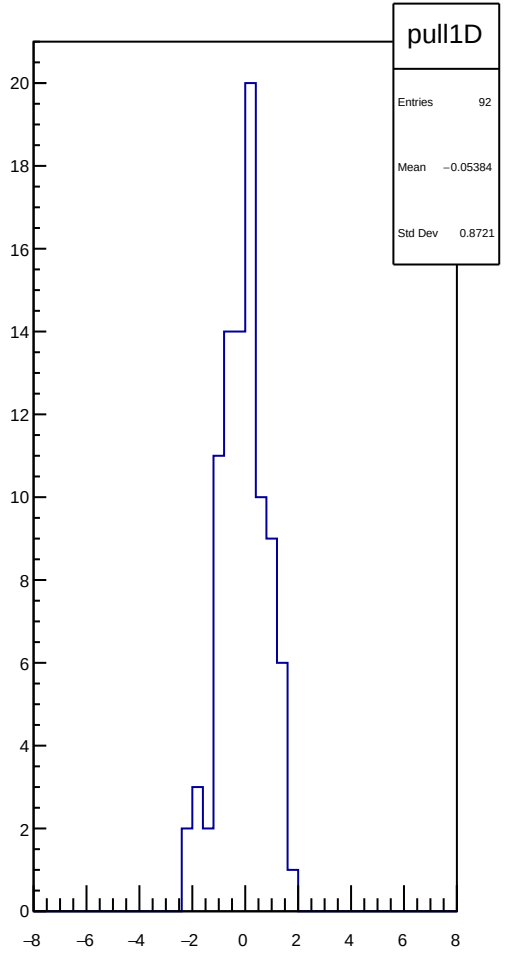

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.31e+04 / 91
p0 36.02 ± 0.02729
60
55
50
45
40
35
30

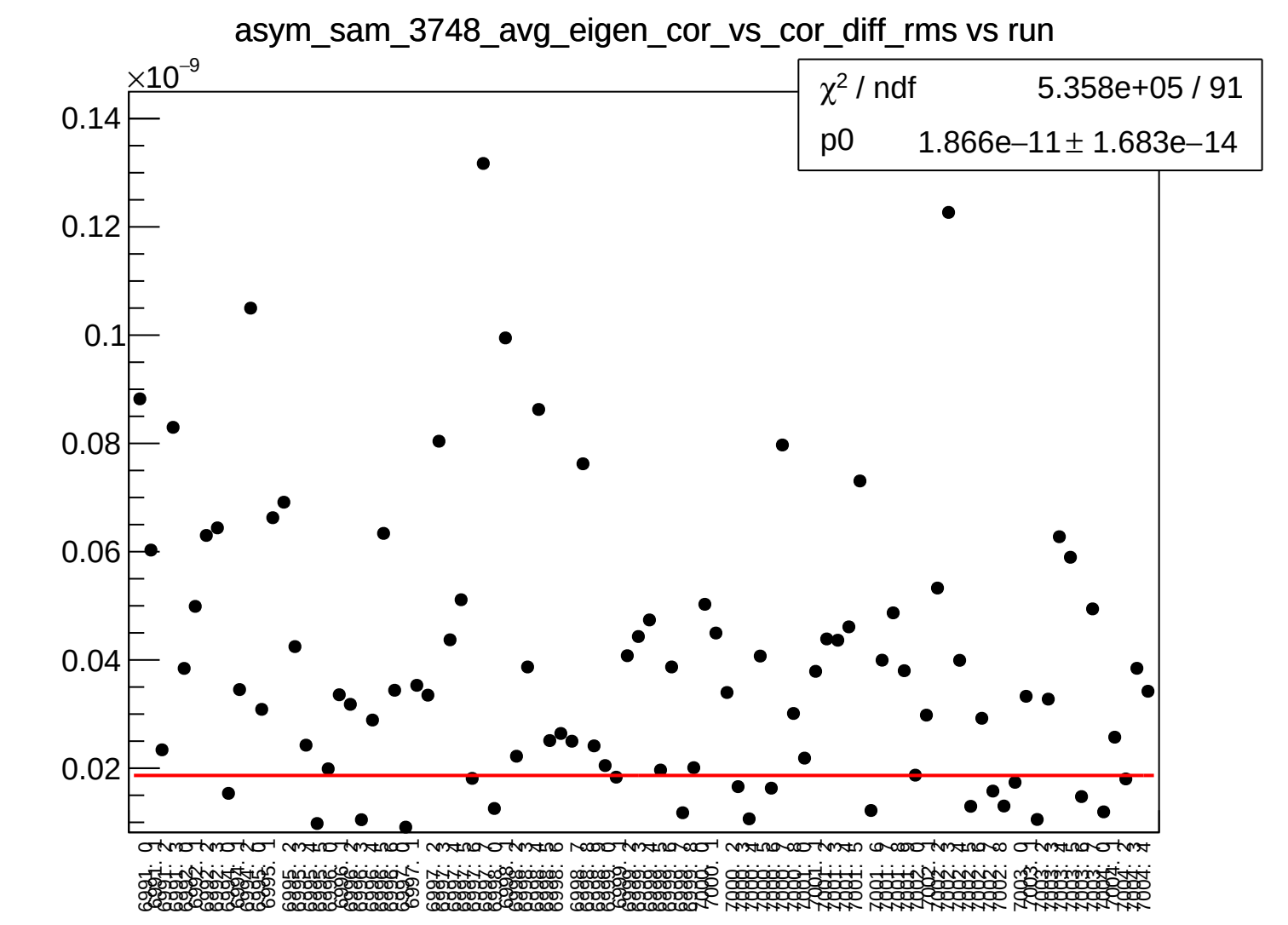

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.07 / 91
p0 0.05109 ± 0.03859
pull
Entries 92
Mean 353.3
Std Dev 0

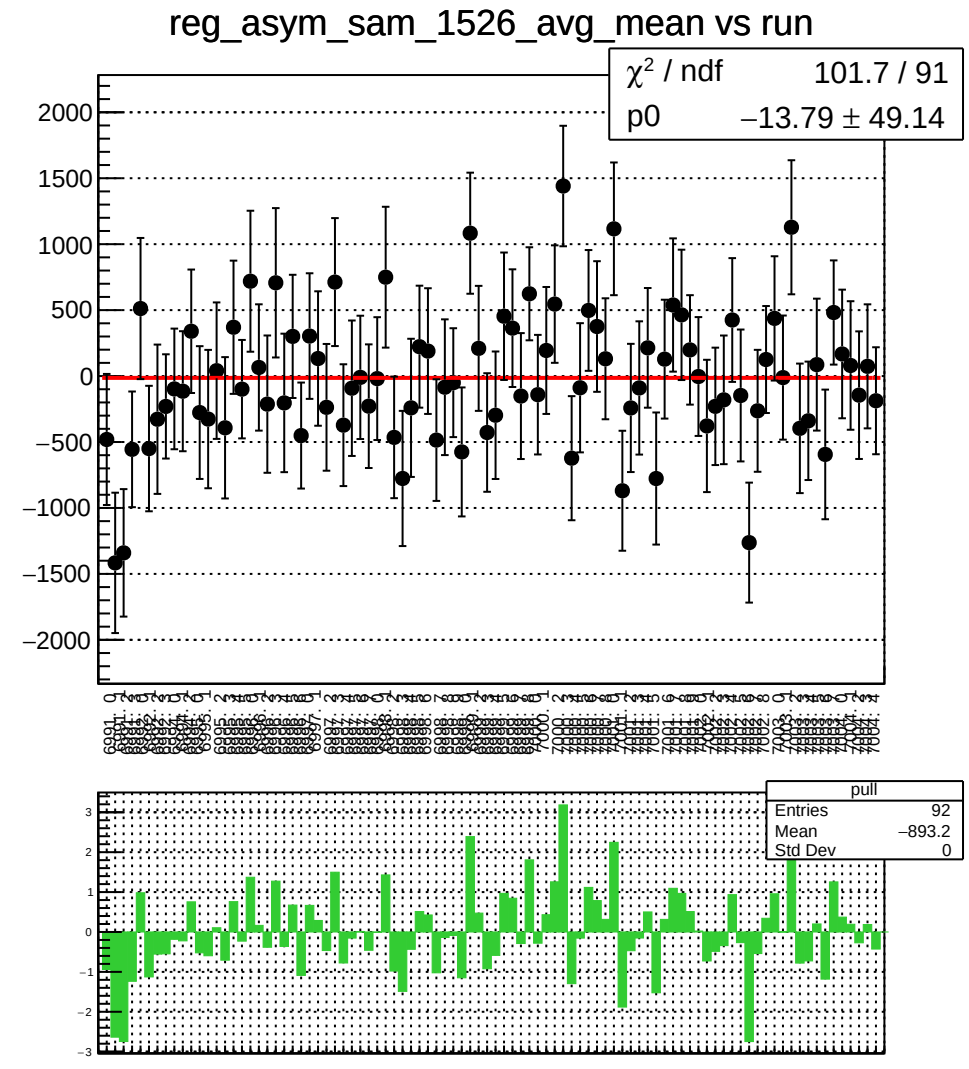

pull1D
Entries 92
Mean 0.009824
Std Dev 1

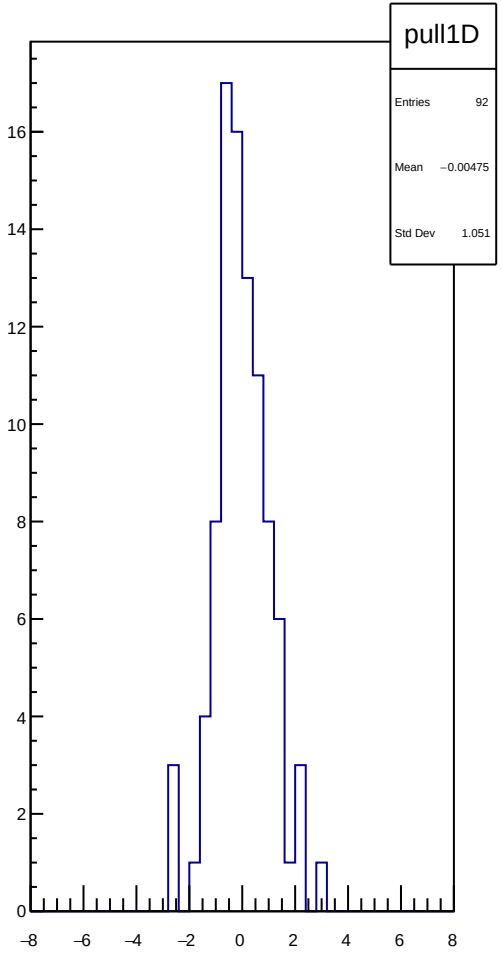

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.31e+04 / 91
p0 36.02 ± 0.02729
60
55
50
45
40
35
30

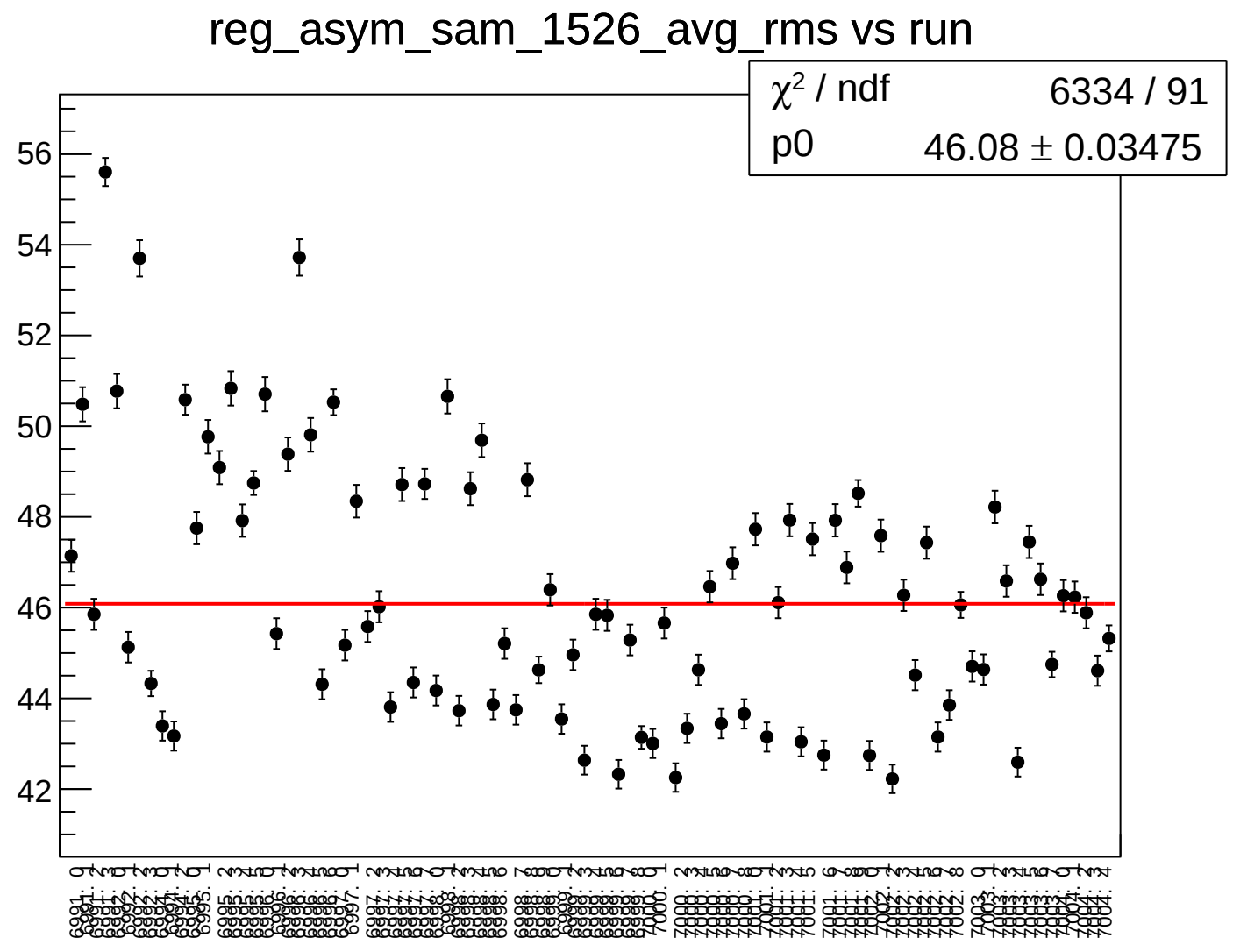

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.23 / 91
p0 9.311e−15 ± 2.38e−14
pull
Entries 92
Mean 95.07
Std Dev 0

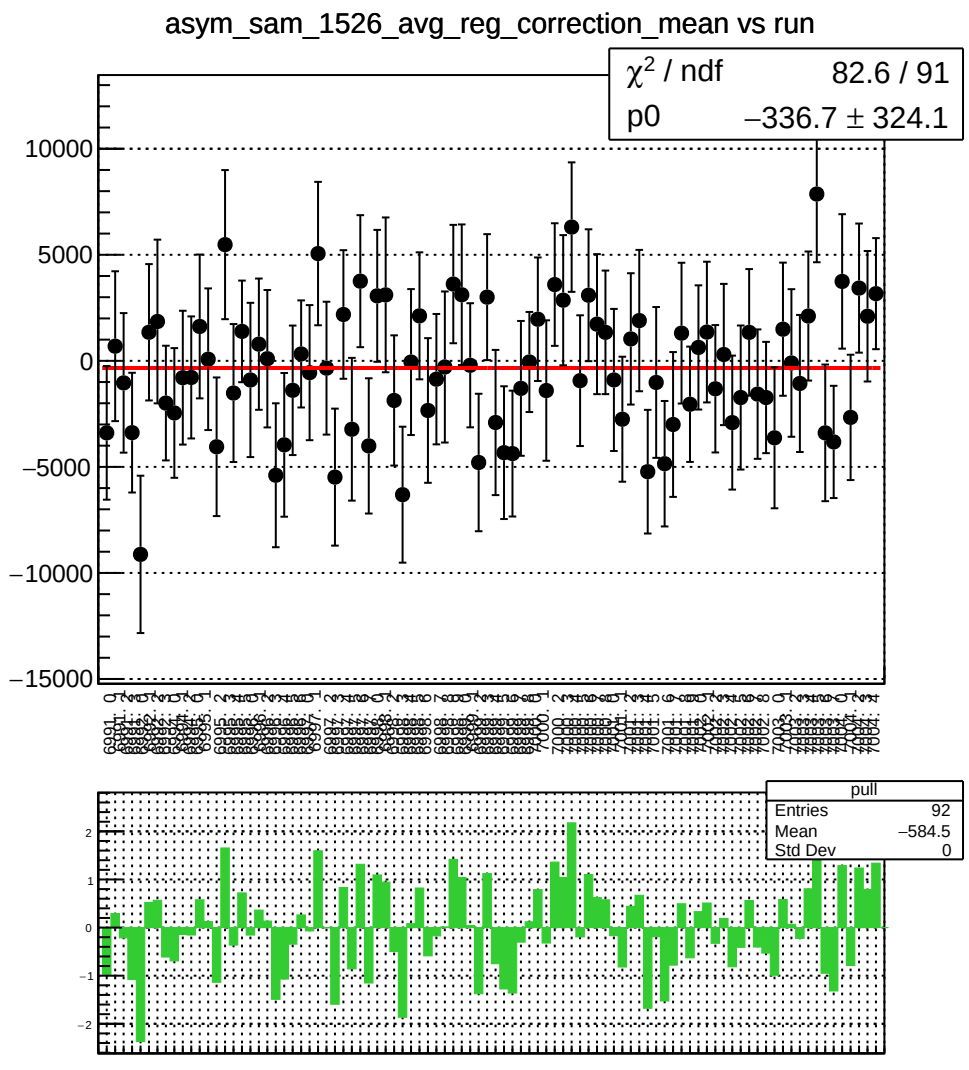

pull1D
Entries 92
Mean −0.05384
Std Dev 0.8721

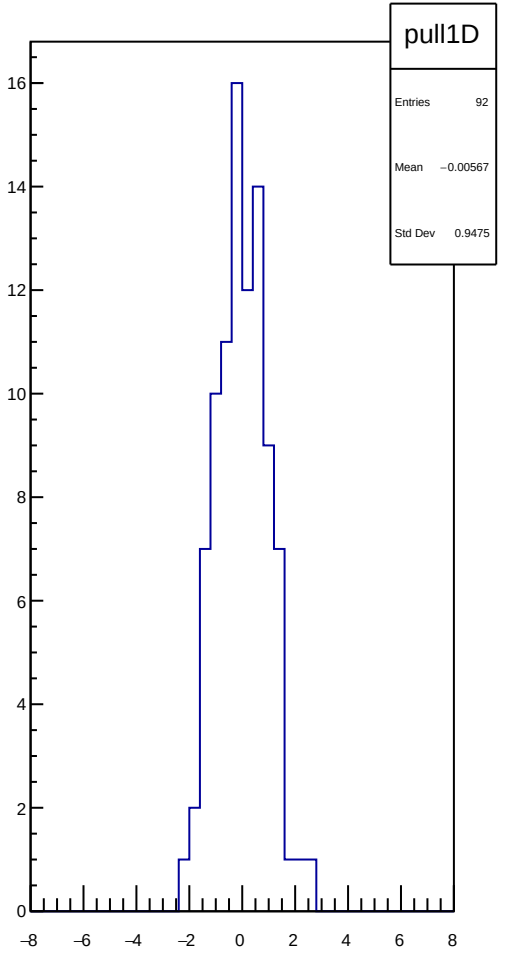

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.358e+05 / 91
p0 1.866e−11 ± 1.683e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

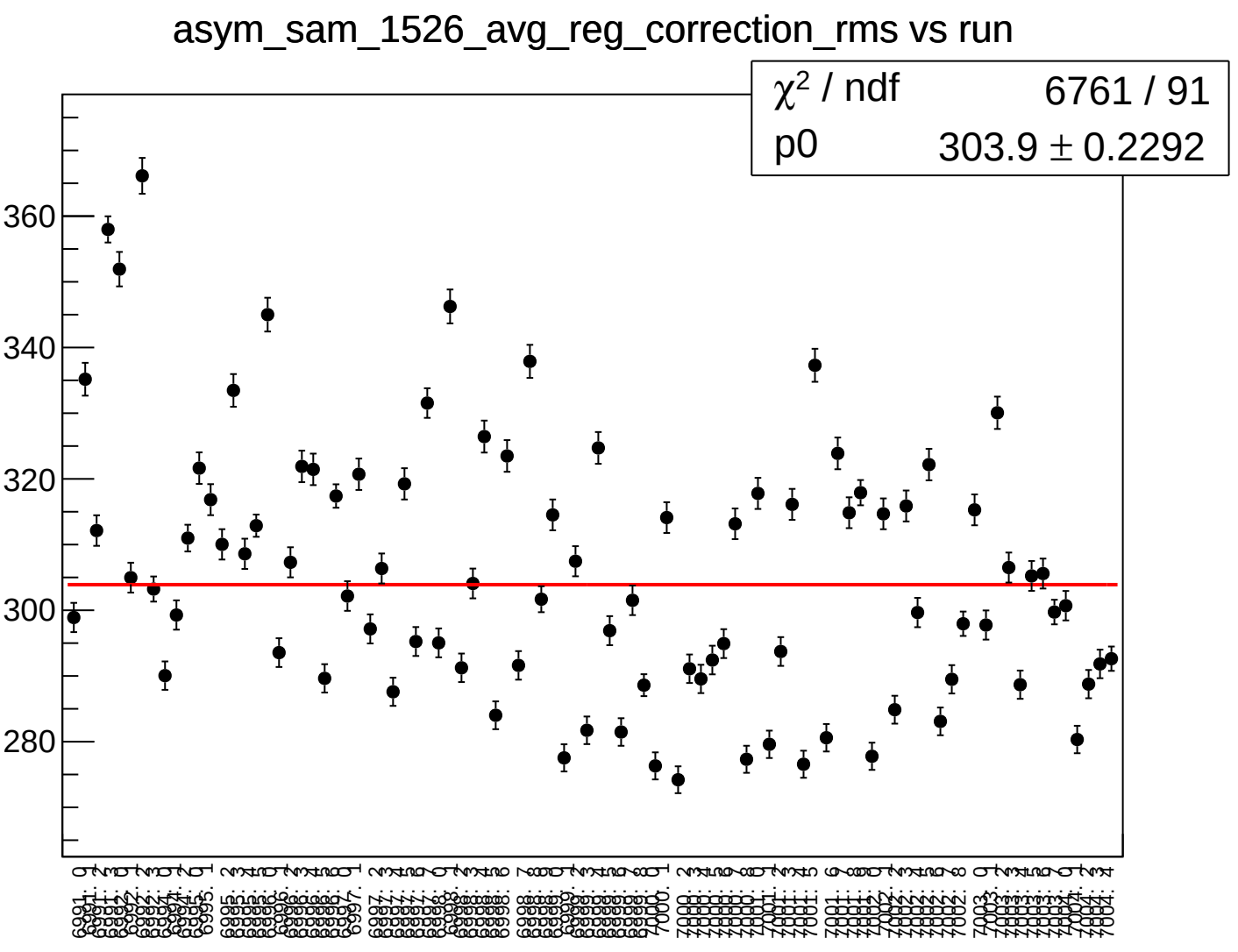

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 101.7 / 91
p0 −13.79 ± 49.14
pull
Entries 92
Mean −893.2
Std Dev 0

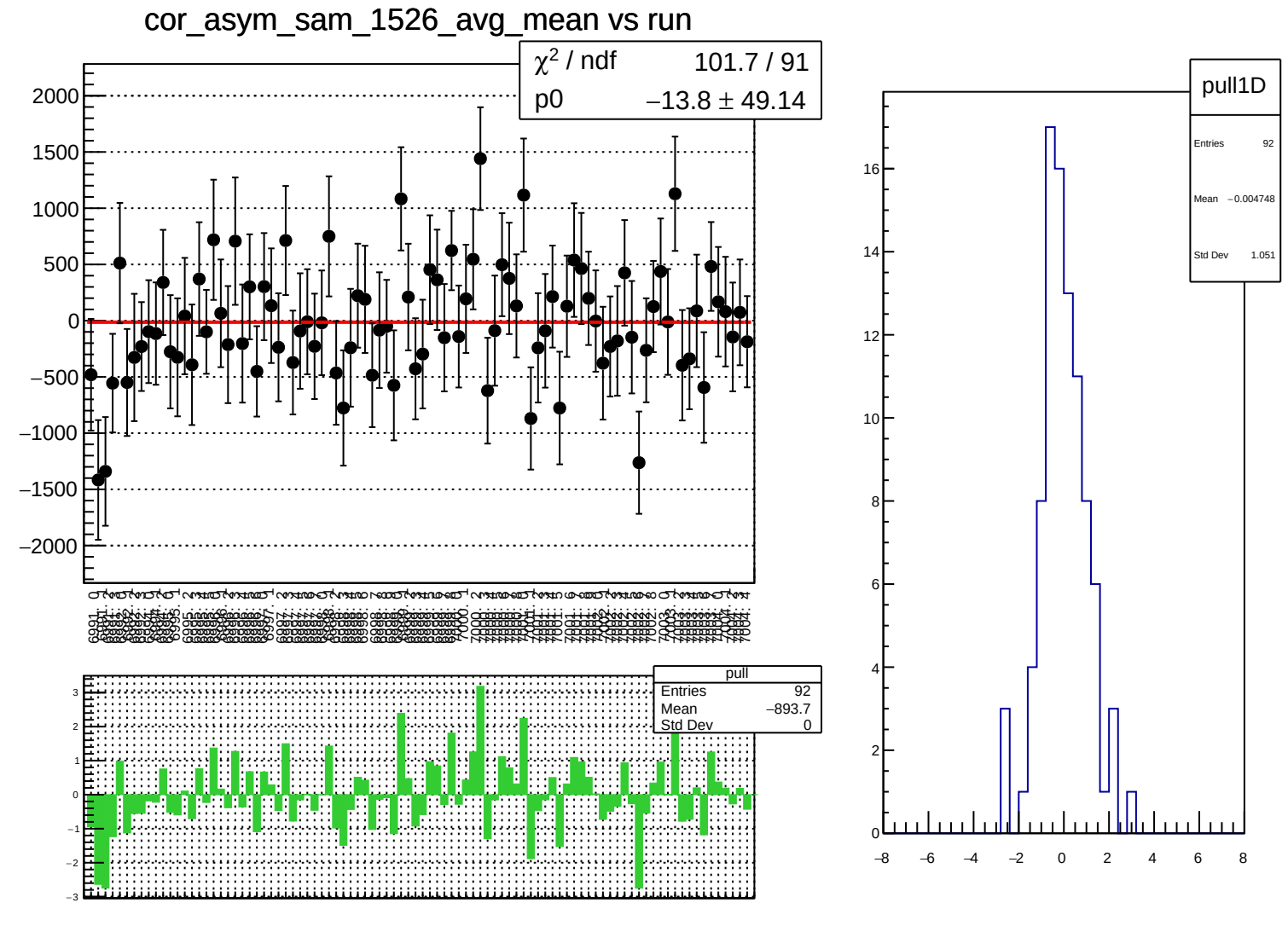

pull1D
Entries 92
Mean −0.00475
Std Dev 1.051

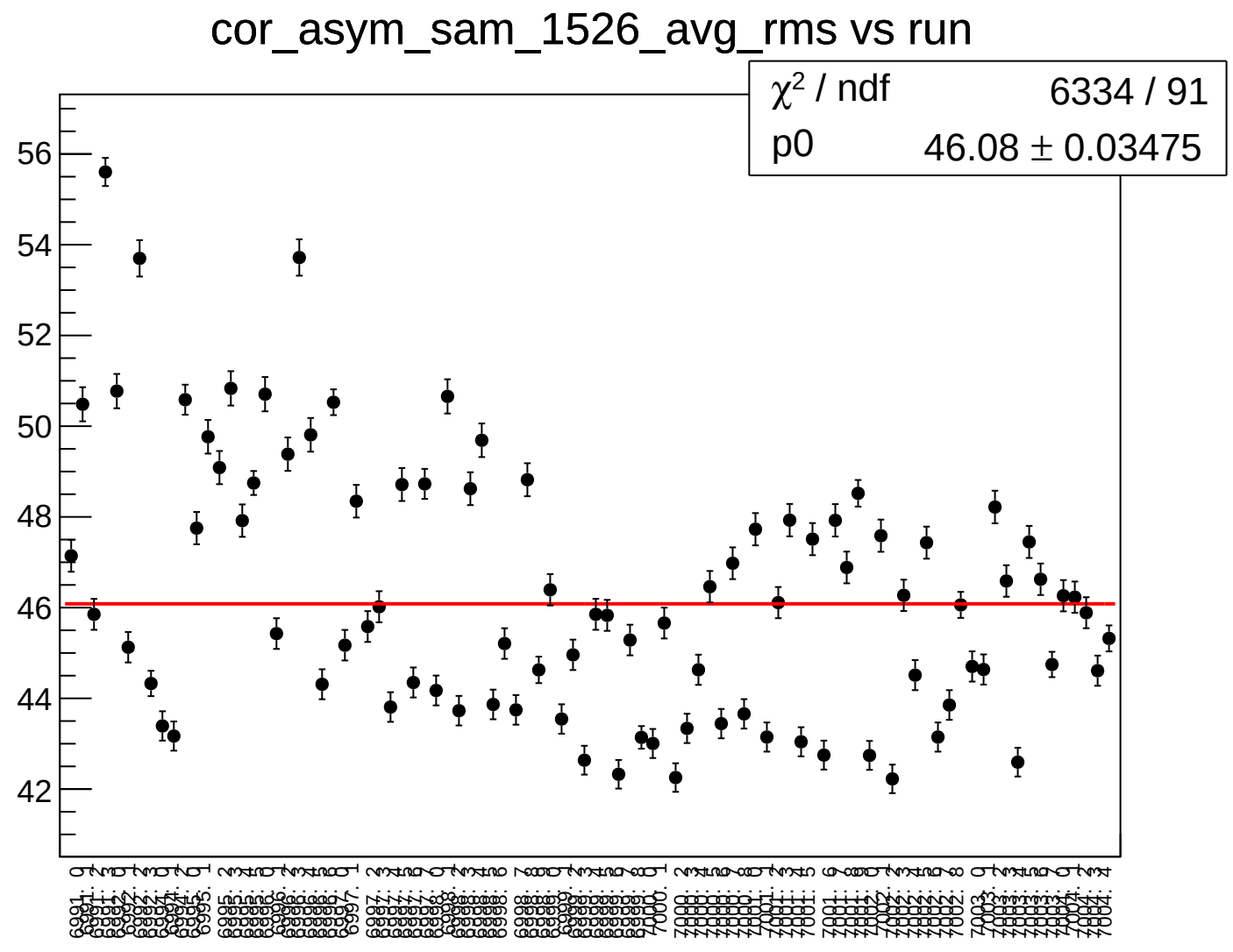

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 6334 / 91
p0 46.08 ± 0.03475
56
54
52
50
48
46
44
42

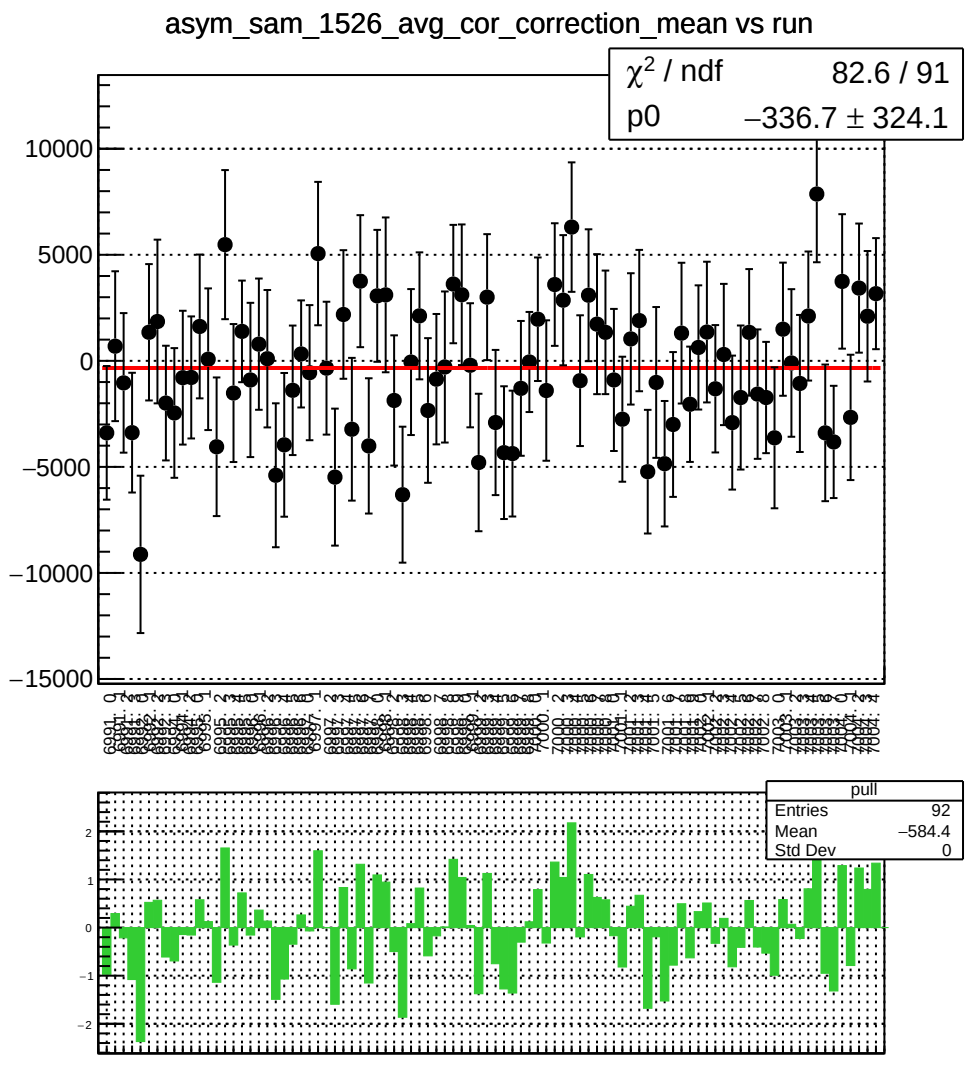

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 82.6 / 91
p0 −336.7 ± 324.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −584.5
Std Dev 0
2
1
0
−1
−2

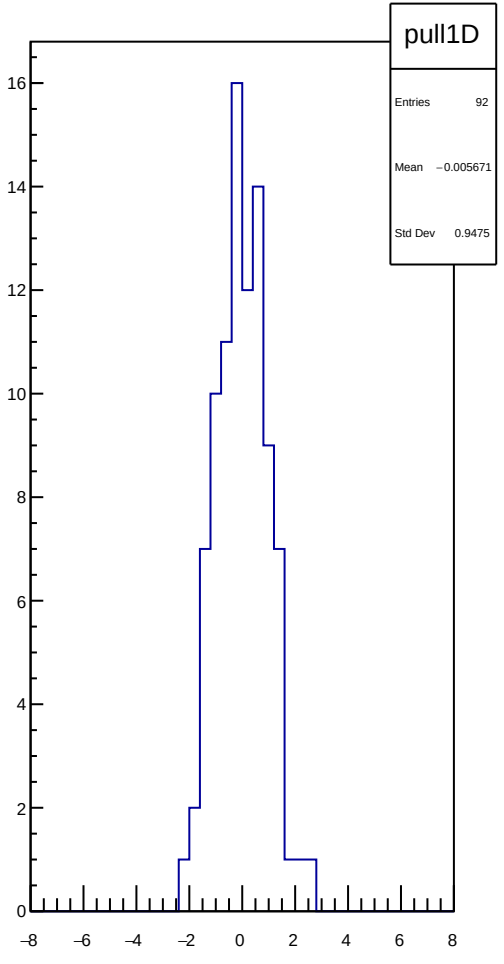

pull1D
Entries 92
Mean −0.00567
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

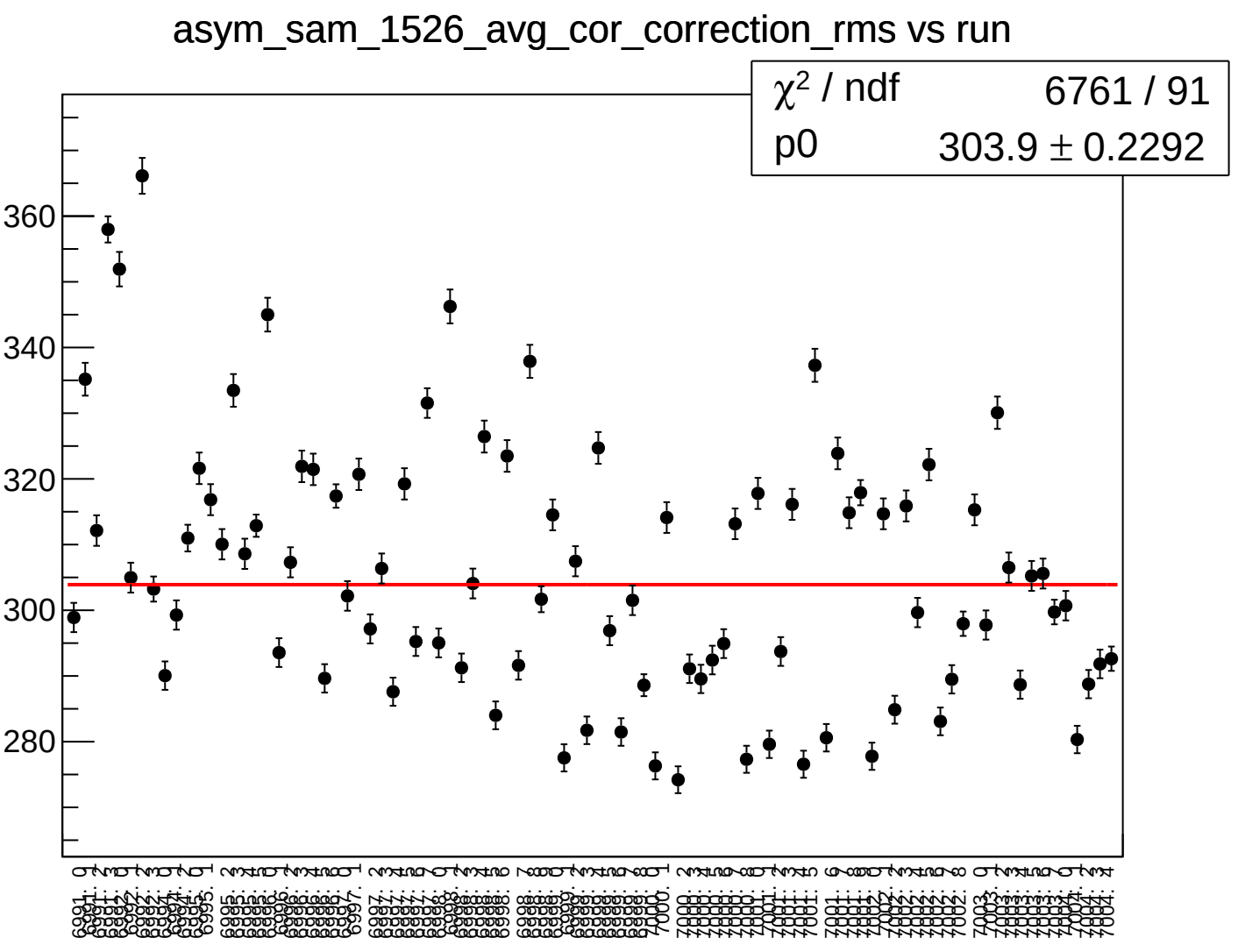

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 6761 / 91
p0 303.9 ± 0.2292
360
340
320
300
280

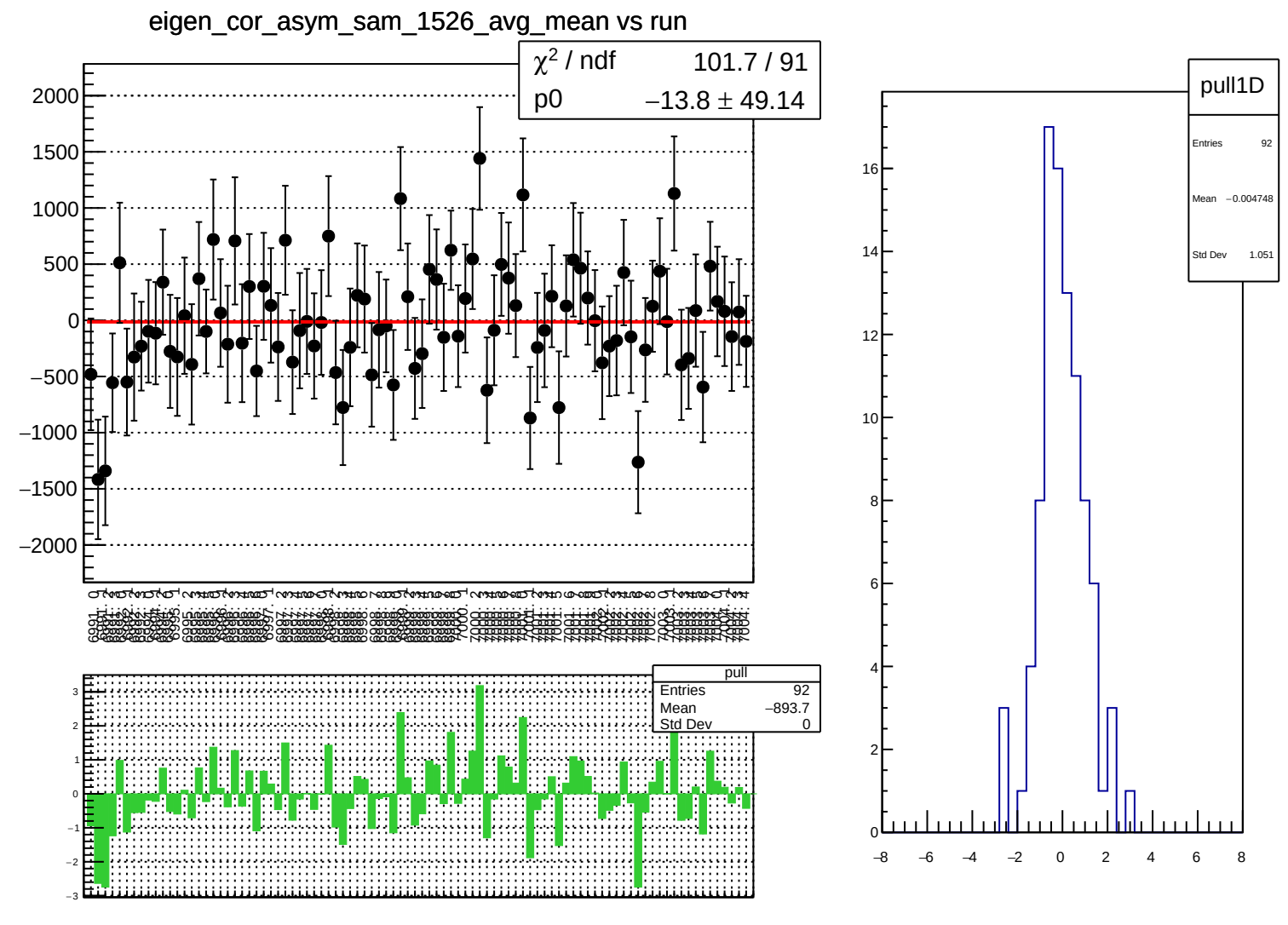

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 101.7 / 91
p0 −13.8 ± 49.14
pull
Entries 92
Mean −893.7
Std Dev 0
pull1D
Entries 92
Mean −0.004748
Std Dev 1.051

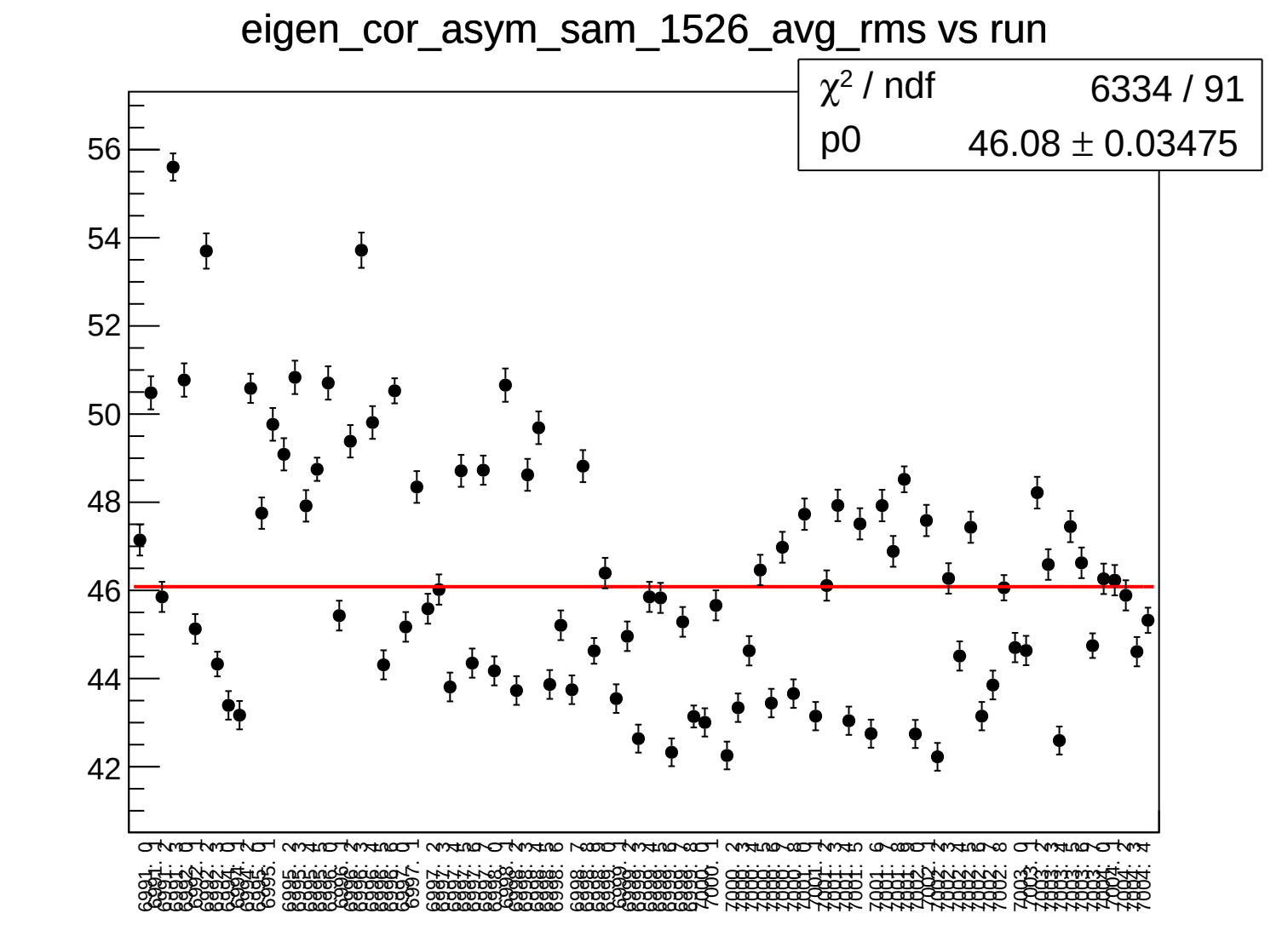

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 6334 / 91
p0 46.08 ± 0.03475
56
54
52
50
48
46
44
42

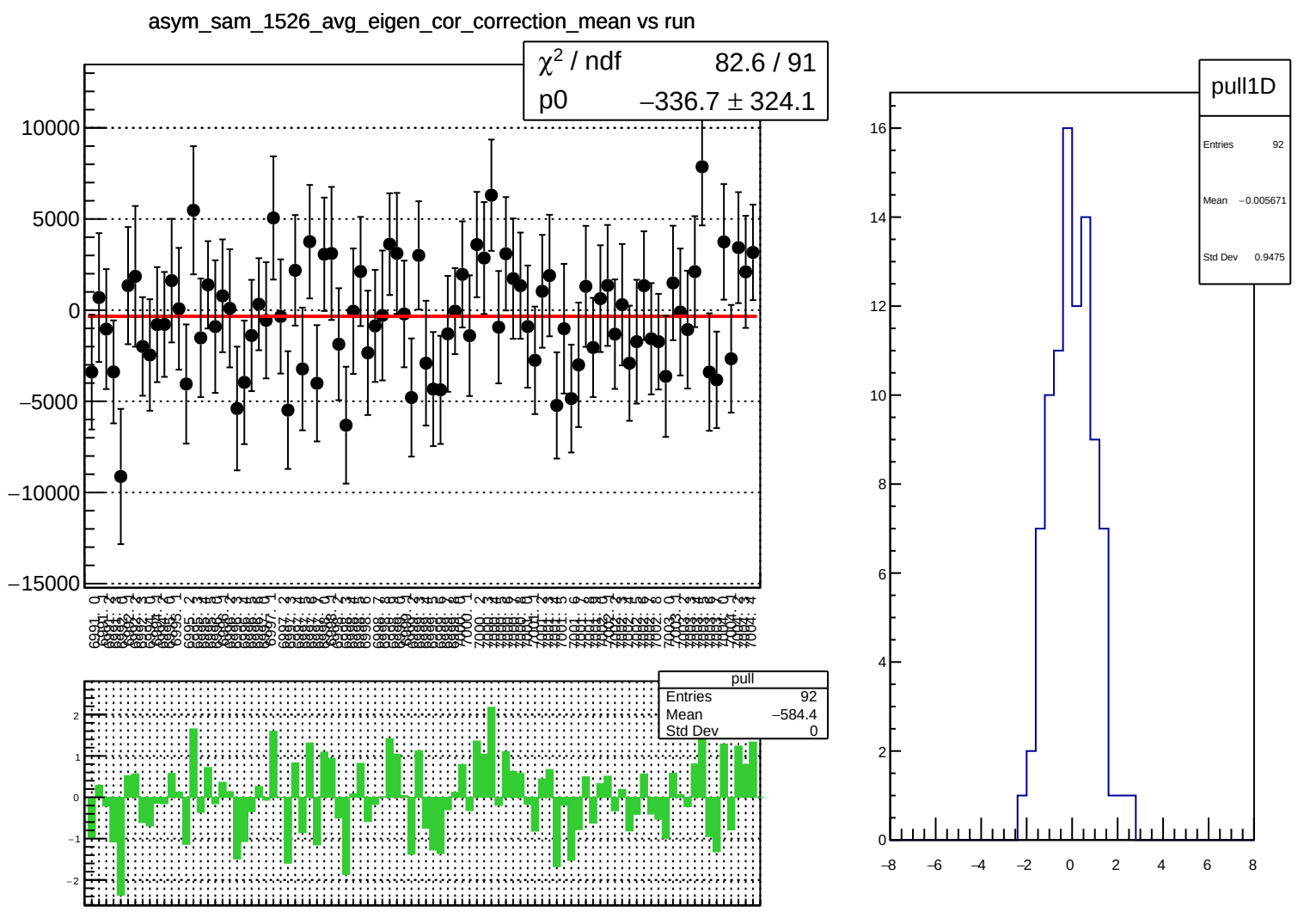

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 82.6 / 91
p0 −336.7 ± 324.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −584.4
Std Dev 0
2
1
0
−1
−2

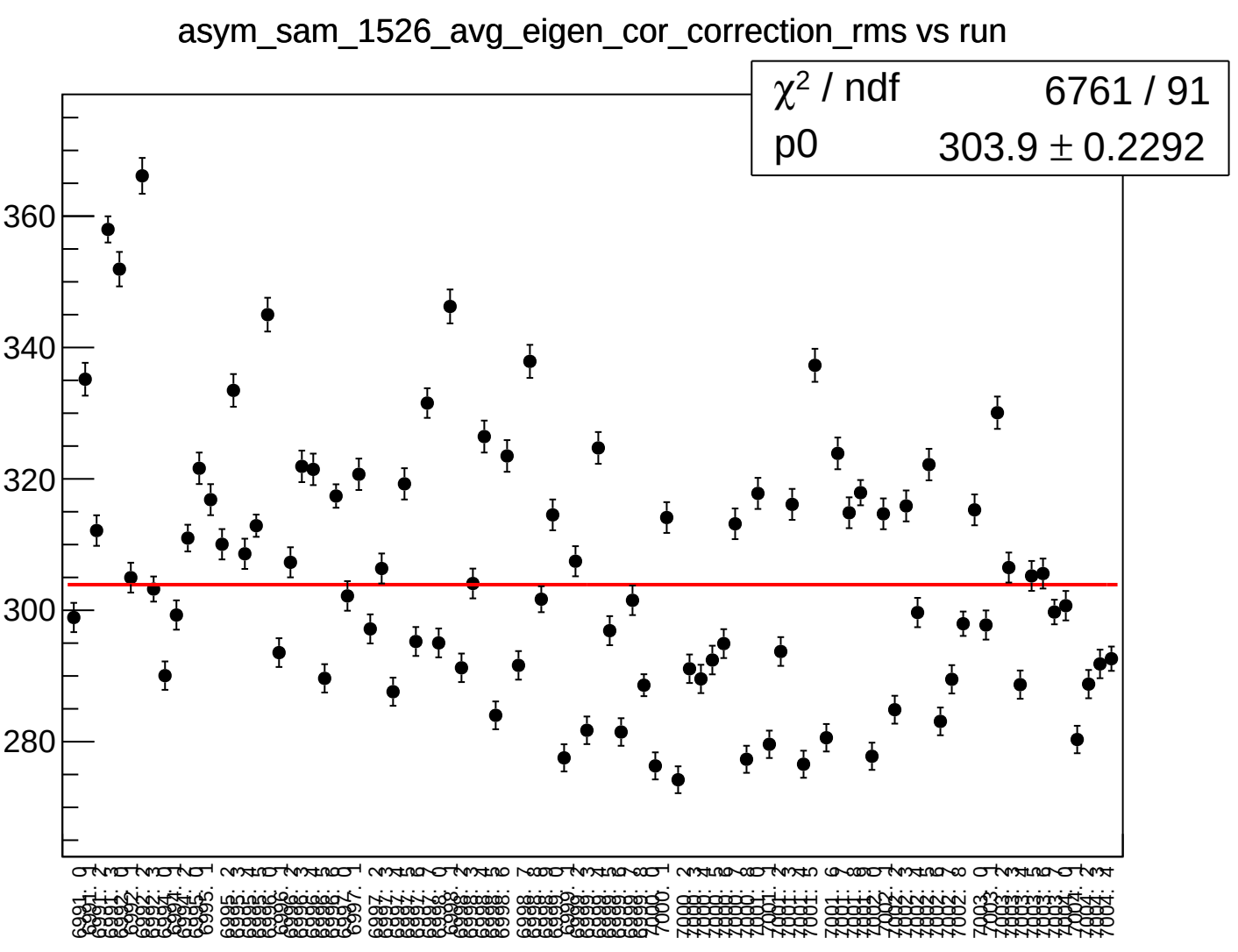

pull1D
Entries 92
Mean −0.005671
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

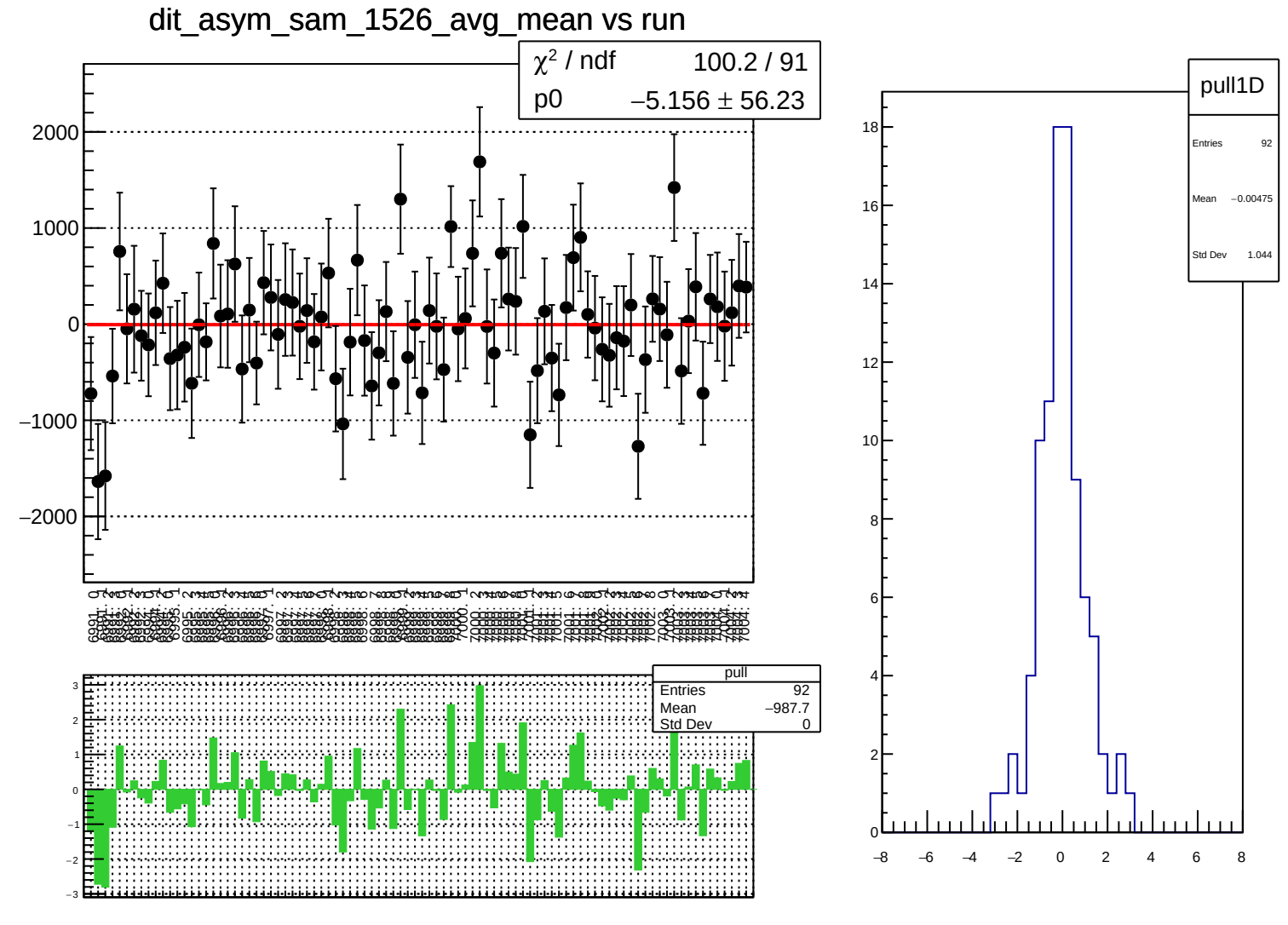

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 6761 / 91
p0 303.9 ± 0.2292
360
340
320
300
280

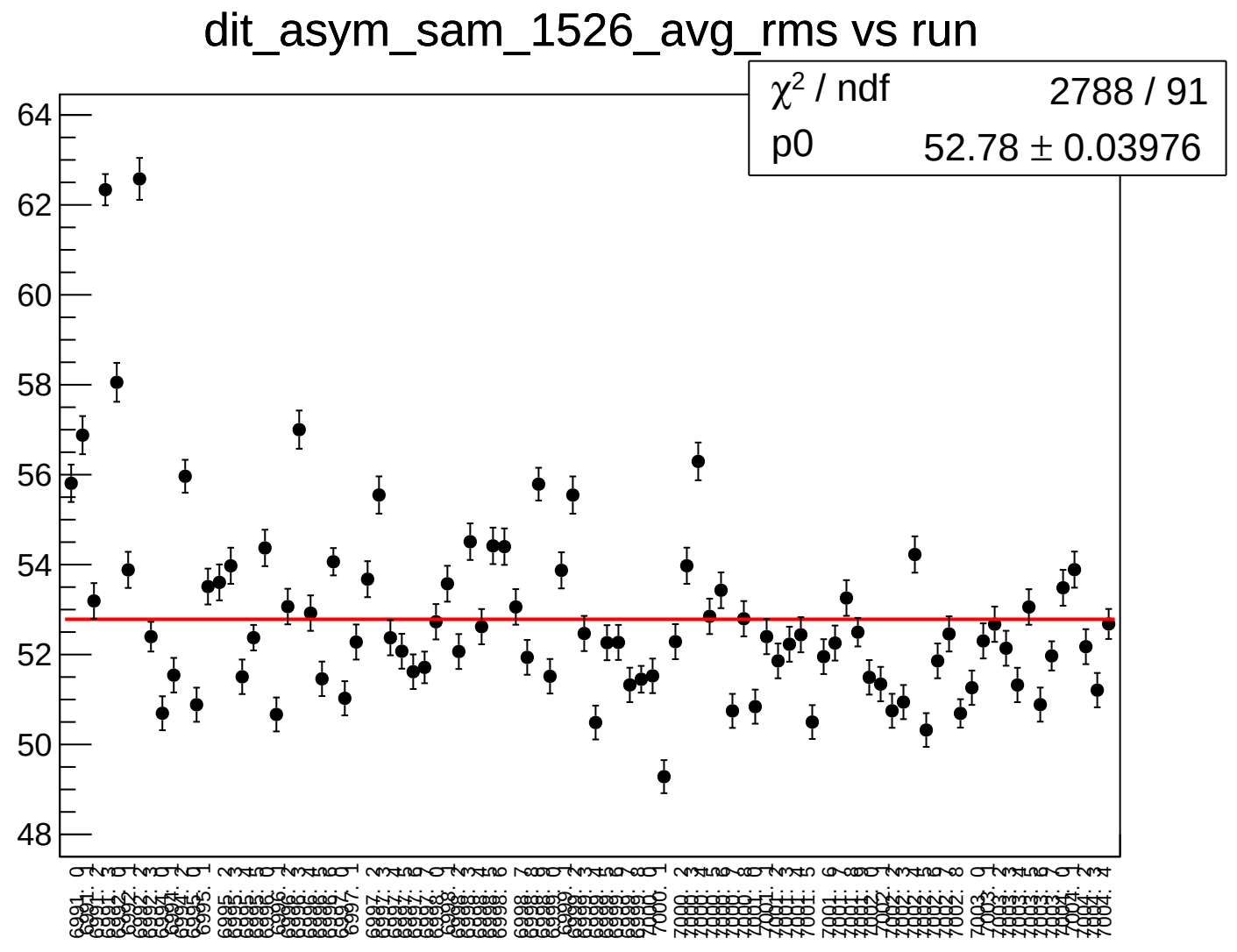

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 101.7 / 91
p0 −13.8 ± 49.14
pull
Entries 92
Mean −893.7
Std Dev 0
pull1D
Entries 92
Mean −0.004748
Std Dev 1.051

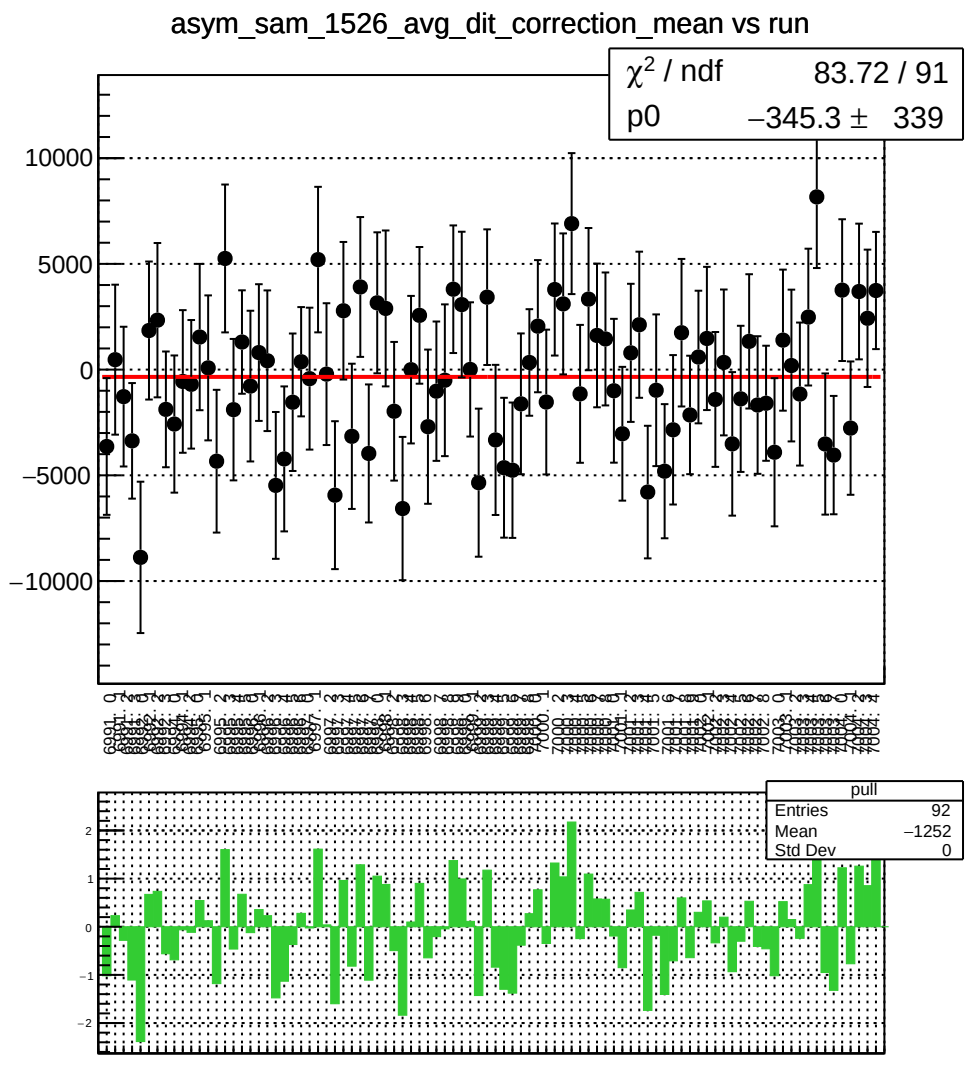

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 6334 / 91
p0 46.08 ± 0.03475
56
54
52
50
48
46
44
42

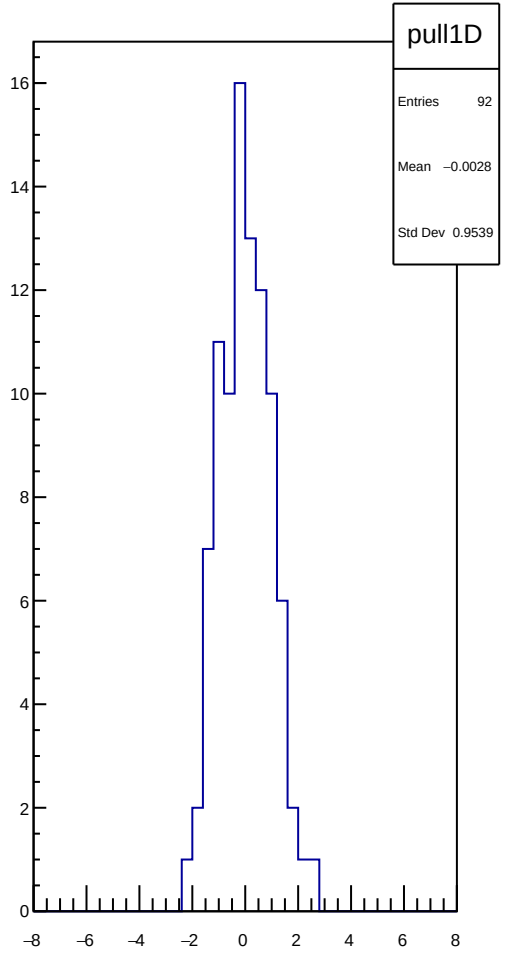

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.6 / 91
p0 −336.7 ± 324.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −584.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.005671
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

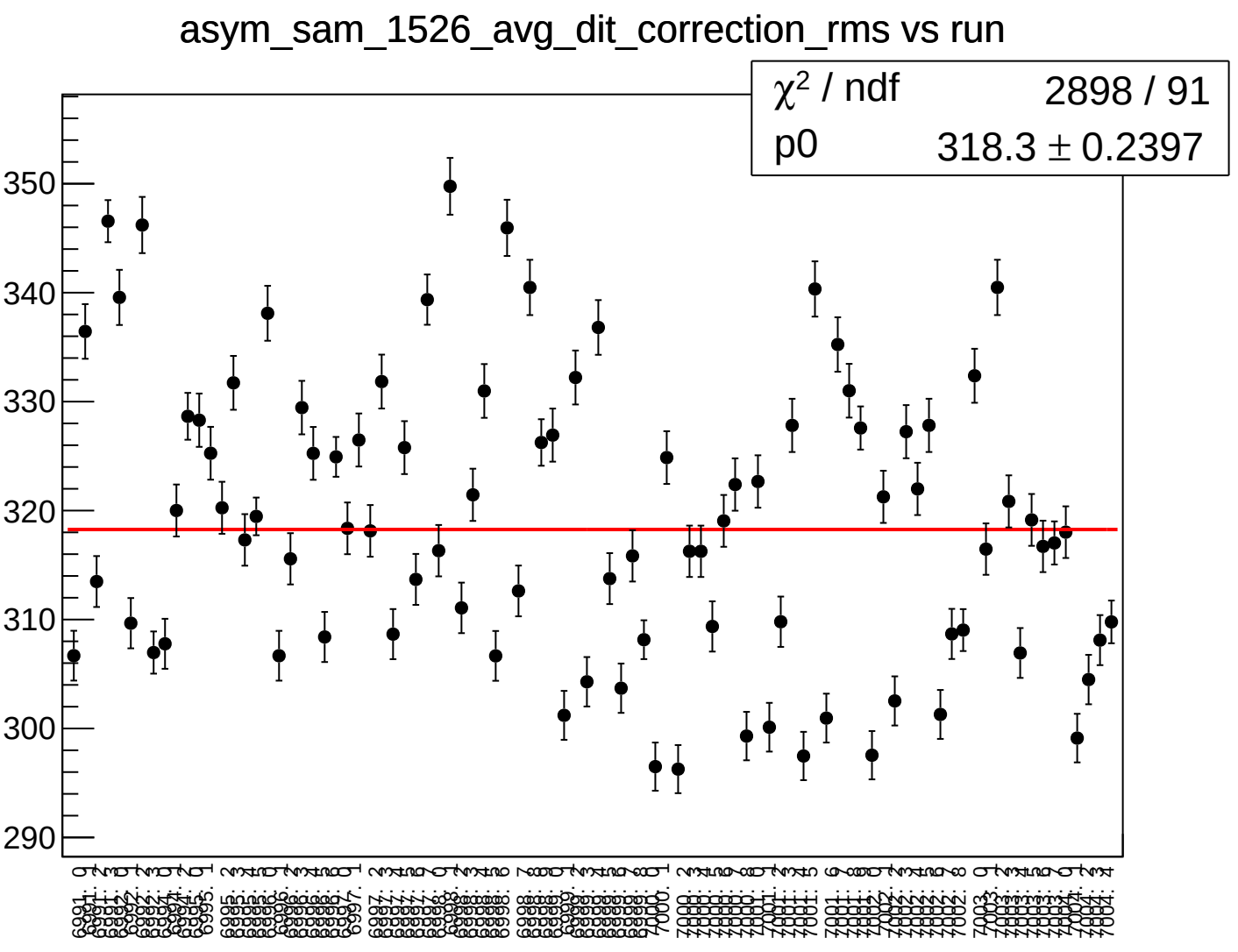

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 6761 / 91
p0 303.9 ± 0.2292
360
340
320
300
280

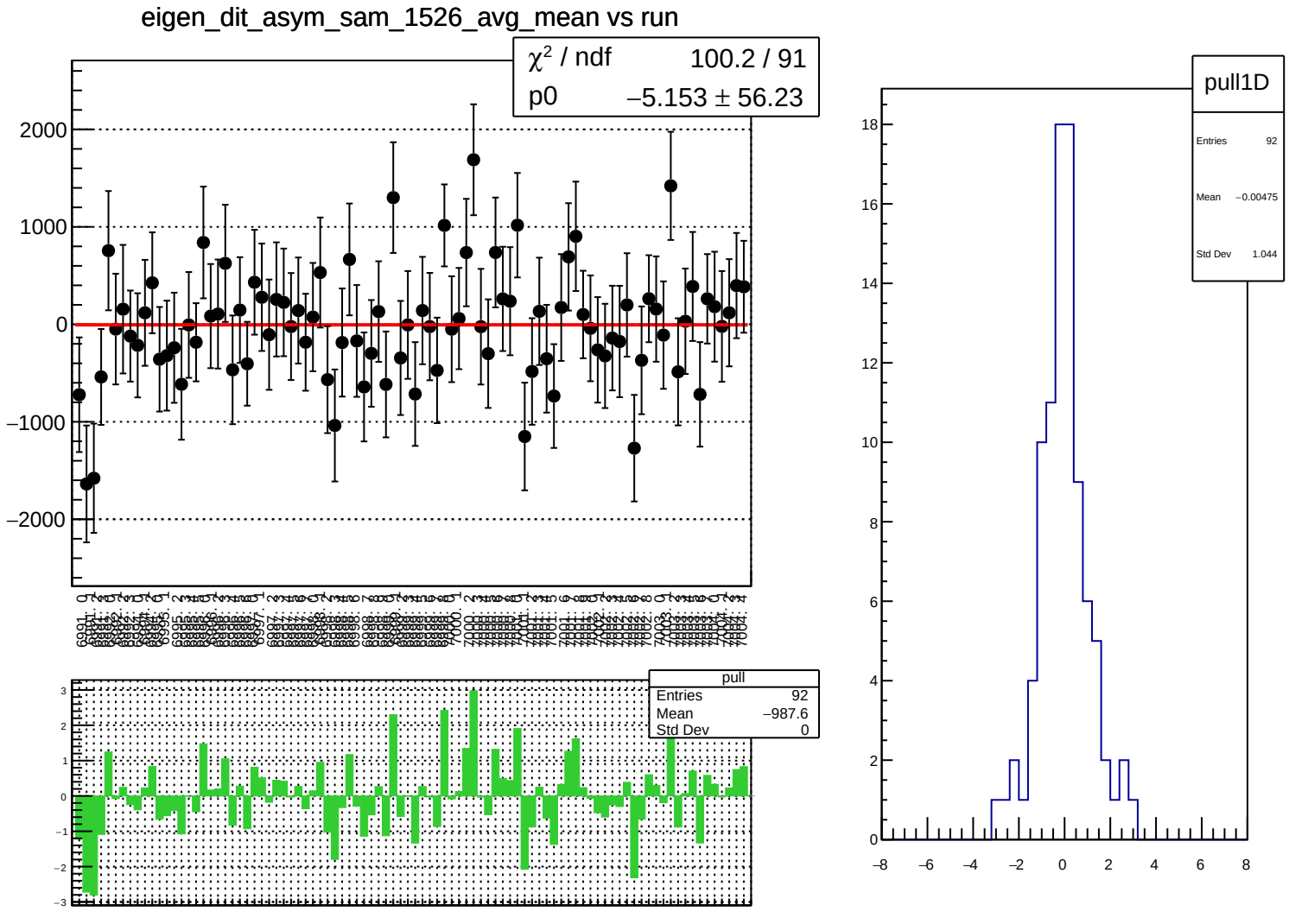

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 100.2 / 91
p0 −5.156 ± 56.23
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −987.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.00475
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

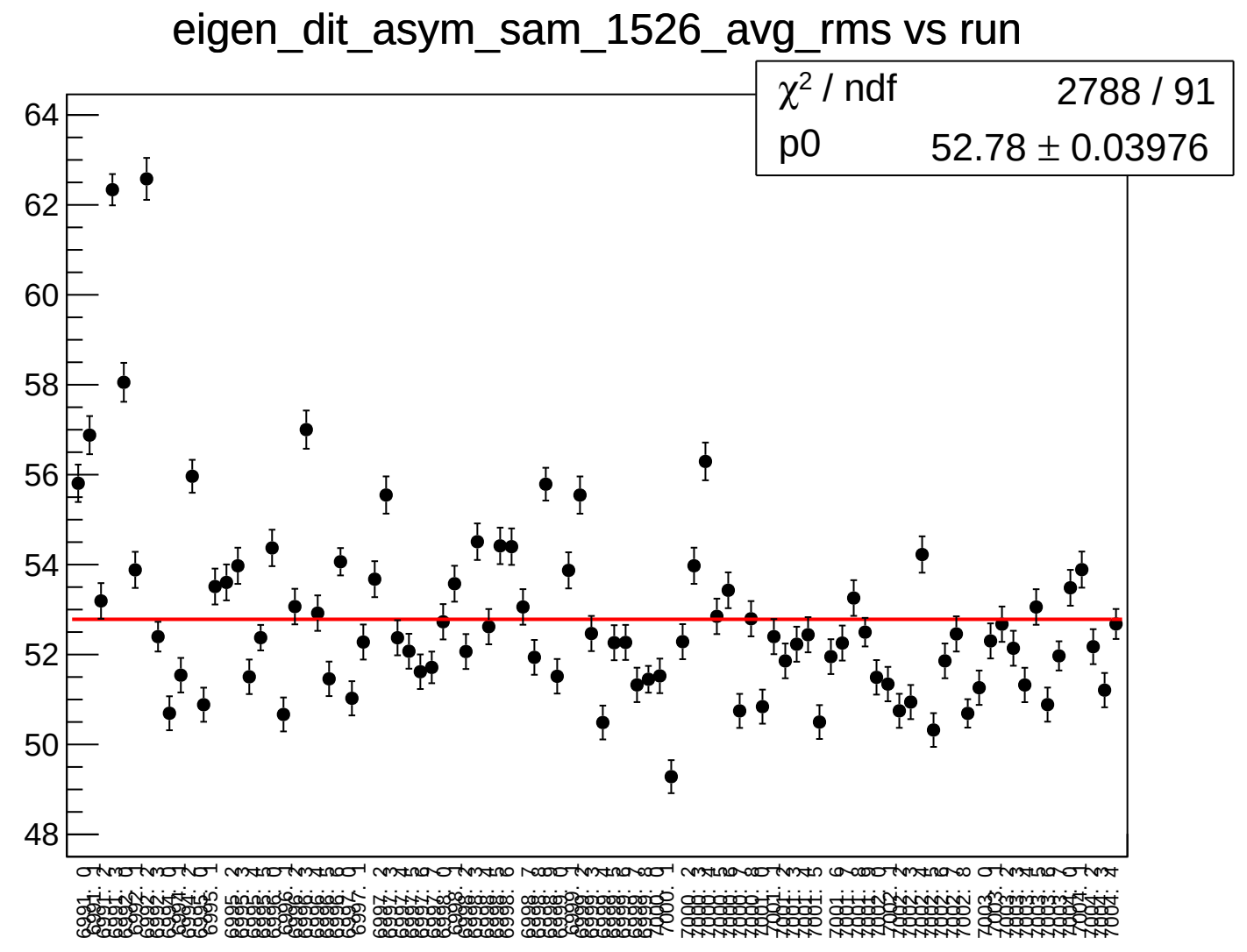

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2788 / 91
p0 52.78 ± 0.03976
64
62
60
58
56
54
52
50
48

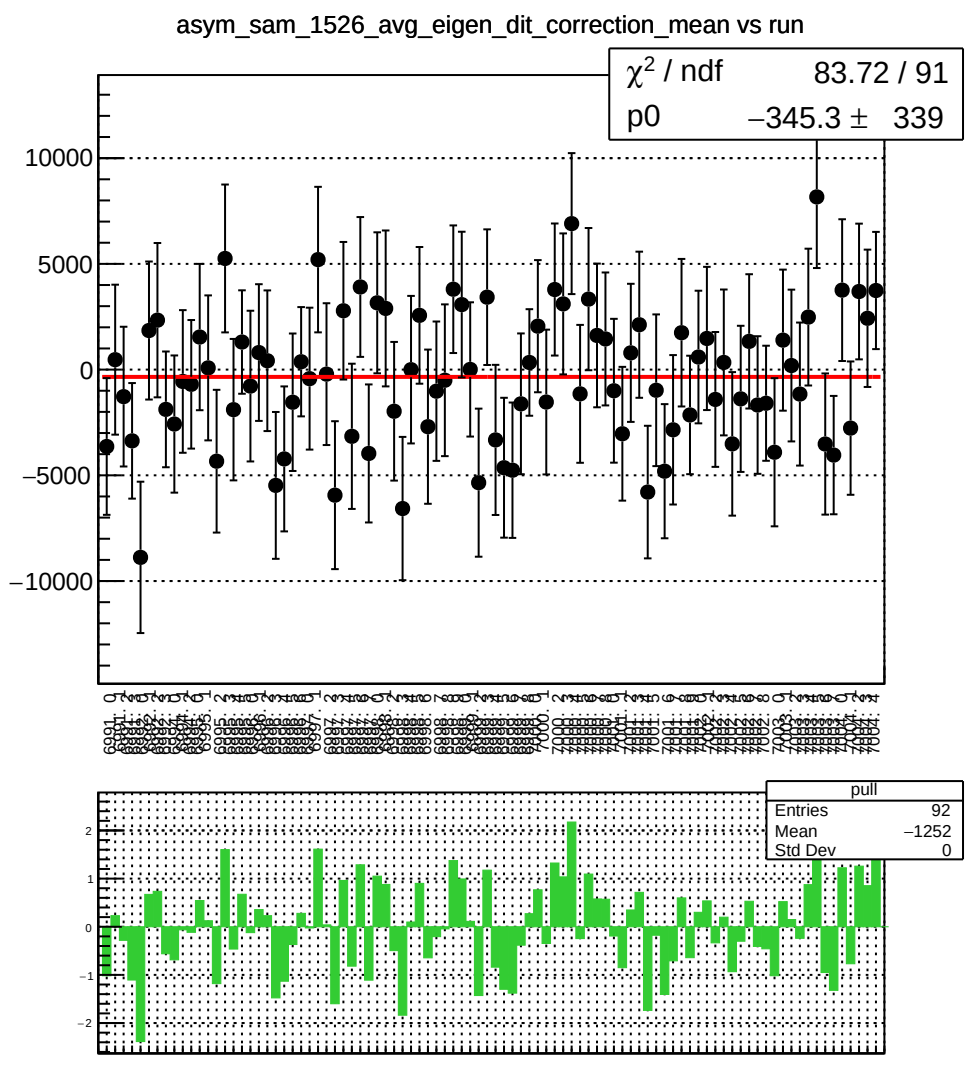

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 83.72 / 91
p0 −345.3 ± 339
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1252
Std Dev 0
2
1
0
−1
−2

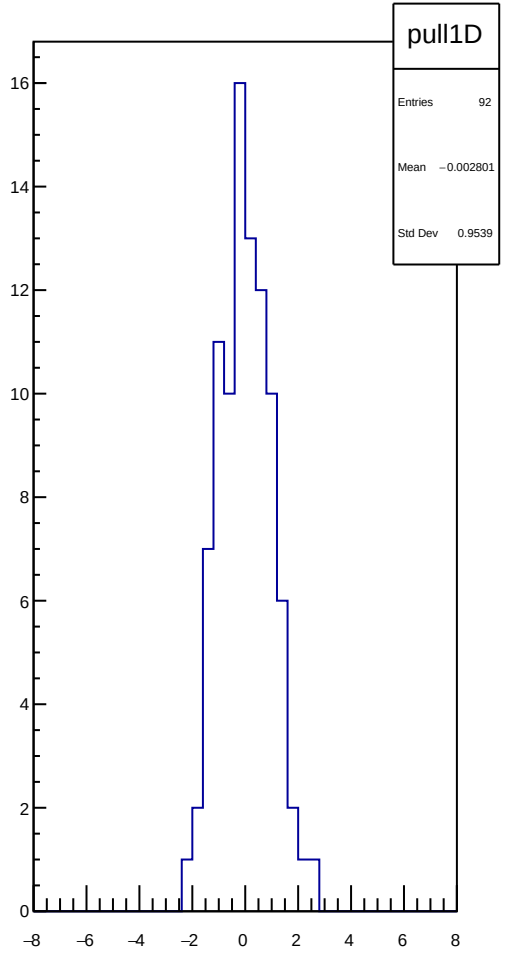

pull1D
Entries 92
Mean −0.0028
Std Dev 0.9539
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

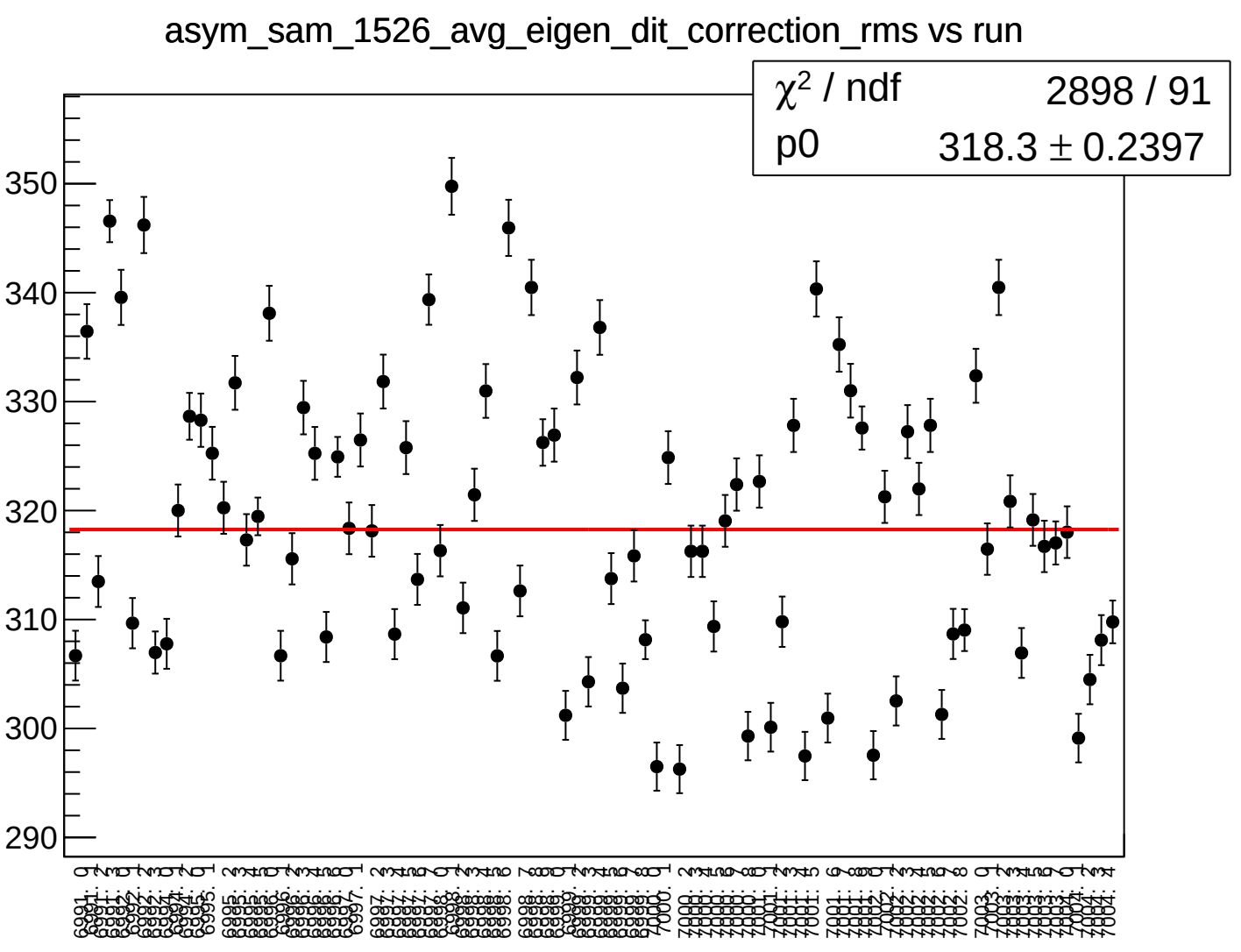

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2898 / 91
p0 318.3 ± 0.2397
350
340
330
320
310
300
290

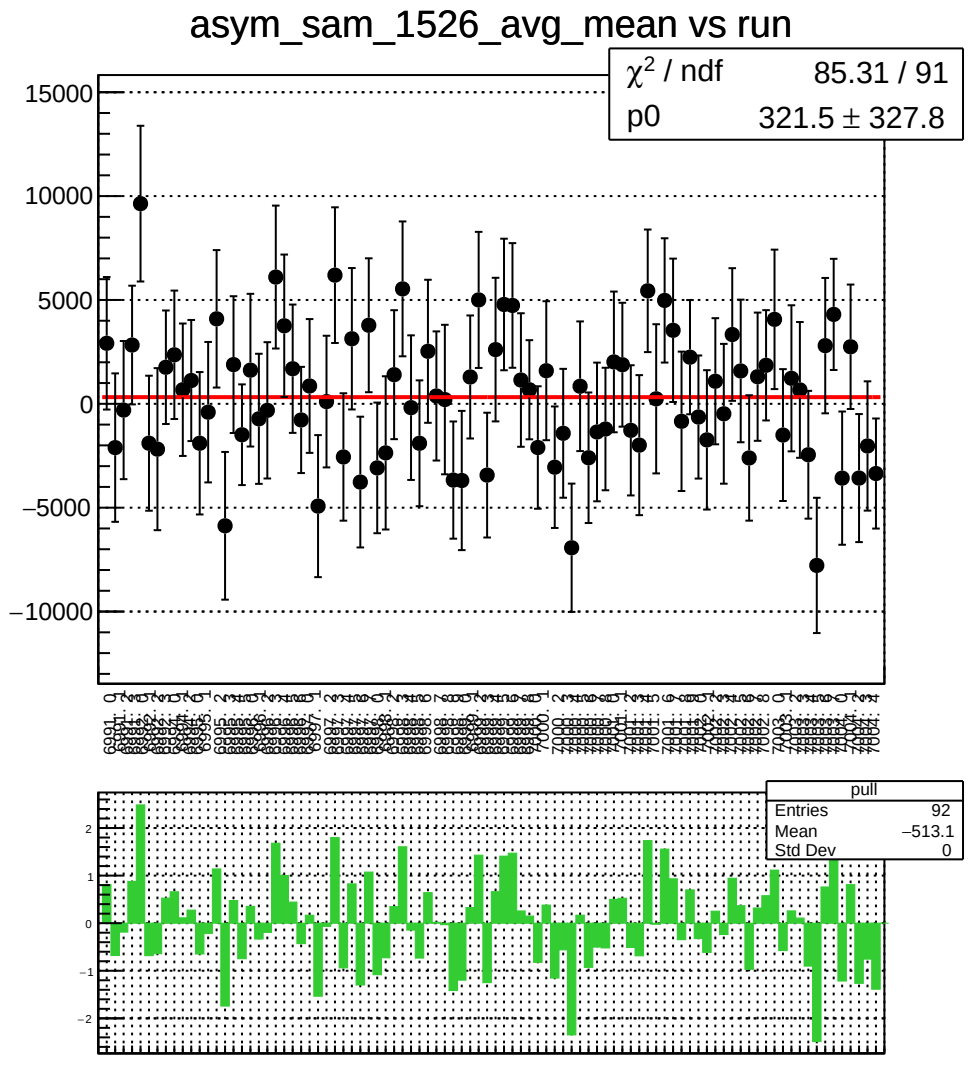

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 100.2 / 91
p0 −5.153 ± 56.23
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −987.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.00475
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

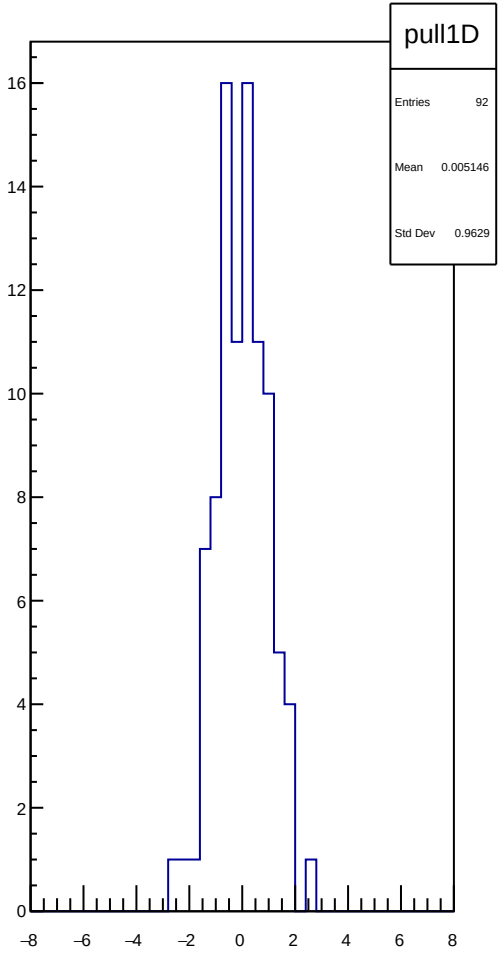

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2788 / 91
p0 52.78 ± 0.03976
64
62
60
58
56
54
52
50
48

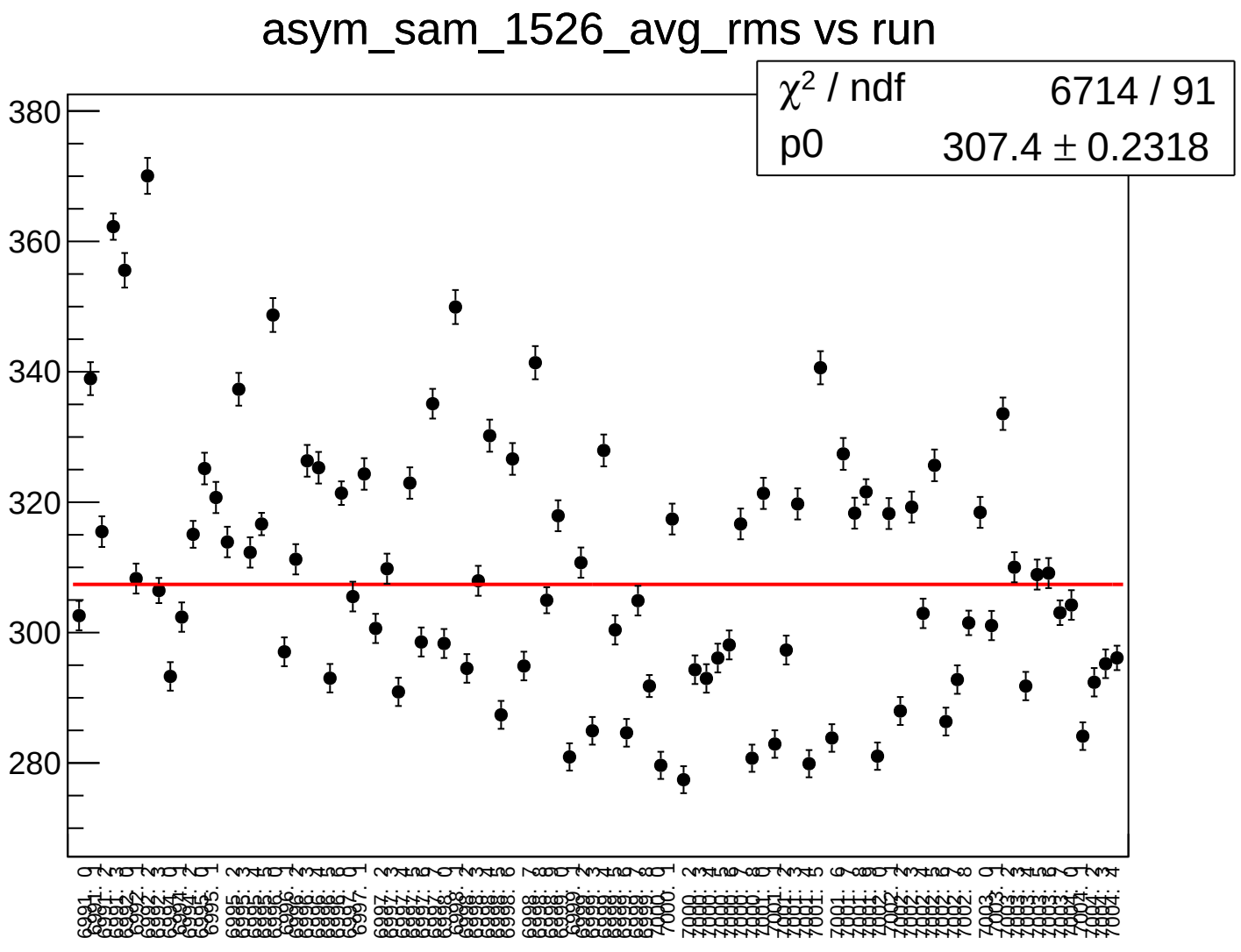

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.72 / 91
p0 −345.3 ± 339
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1252
Std Dev 0
2
1
0
−1
−2

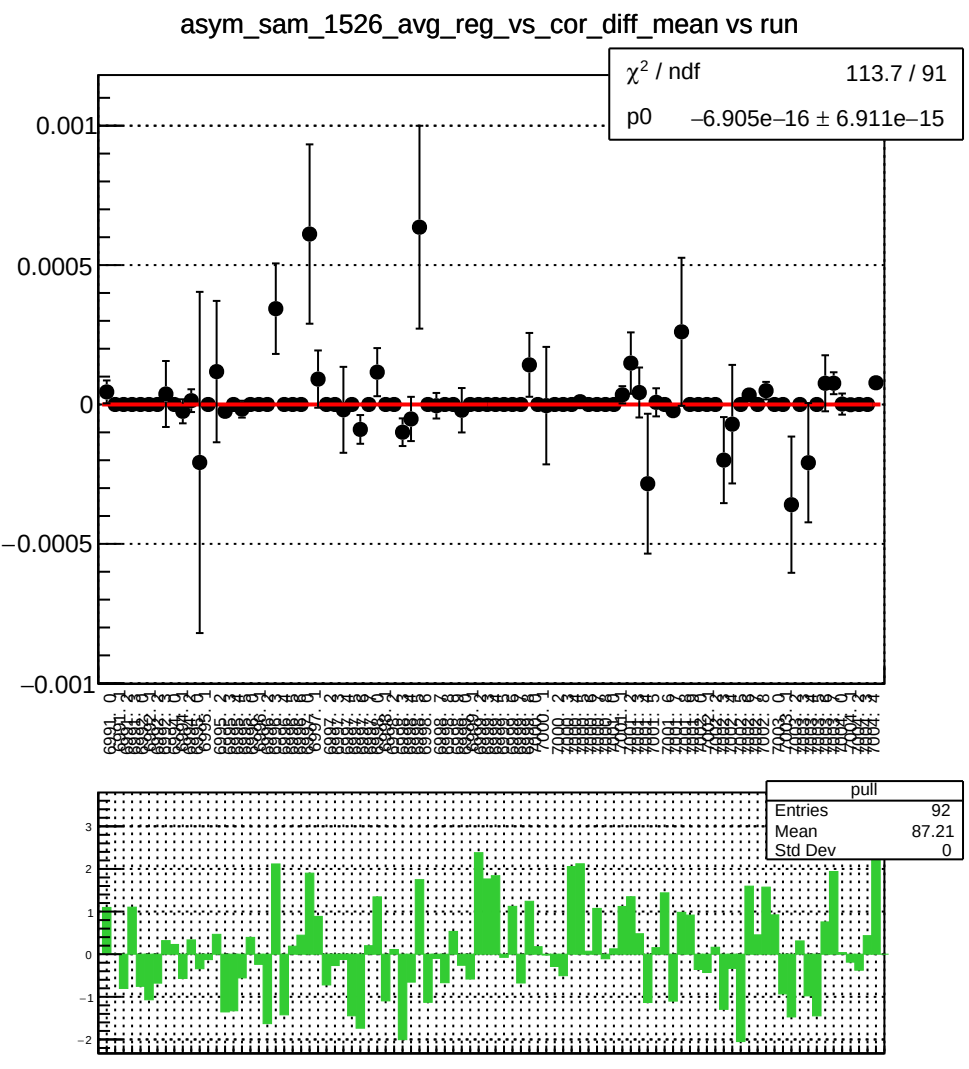

pull1D
Entries 92
Mean −0.002801
Std Dev 0.9539
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

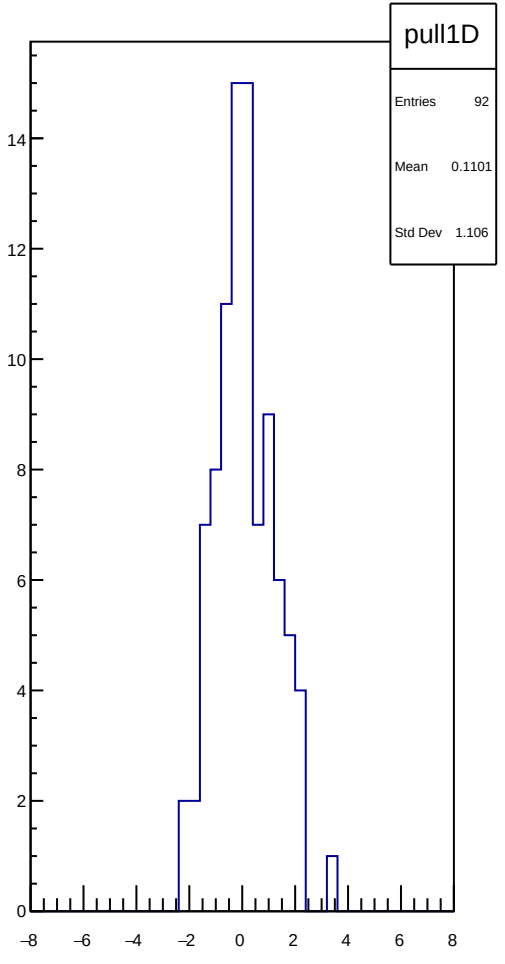

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2898 / 91
p0 318.3 ± 0.2397
350
340
330
320
310
300
290

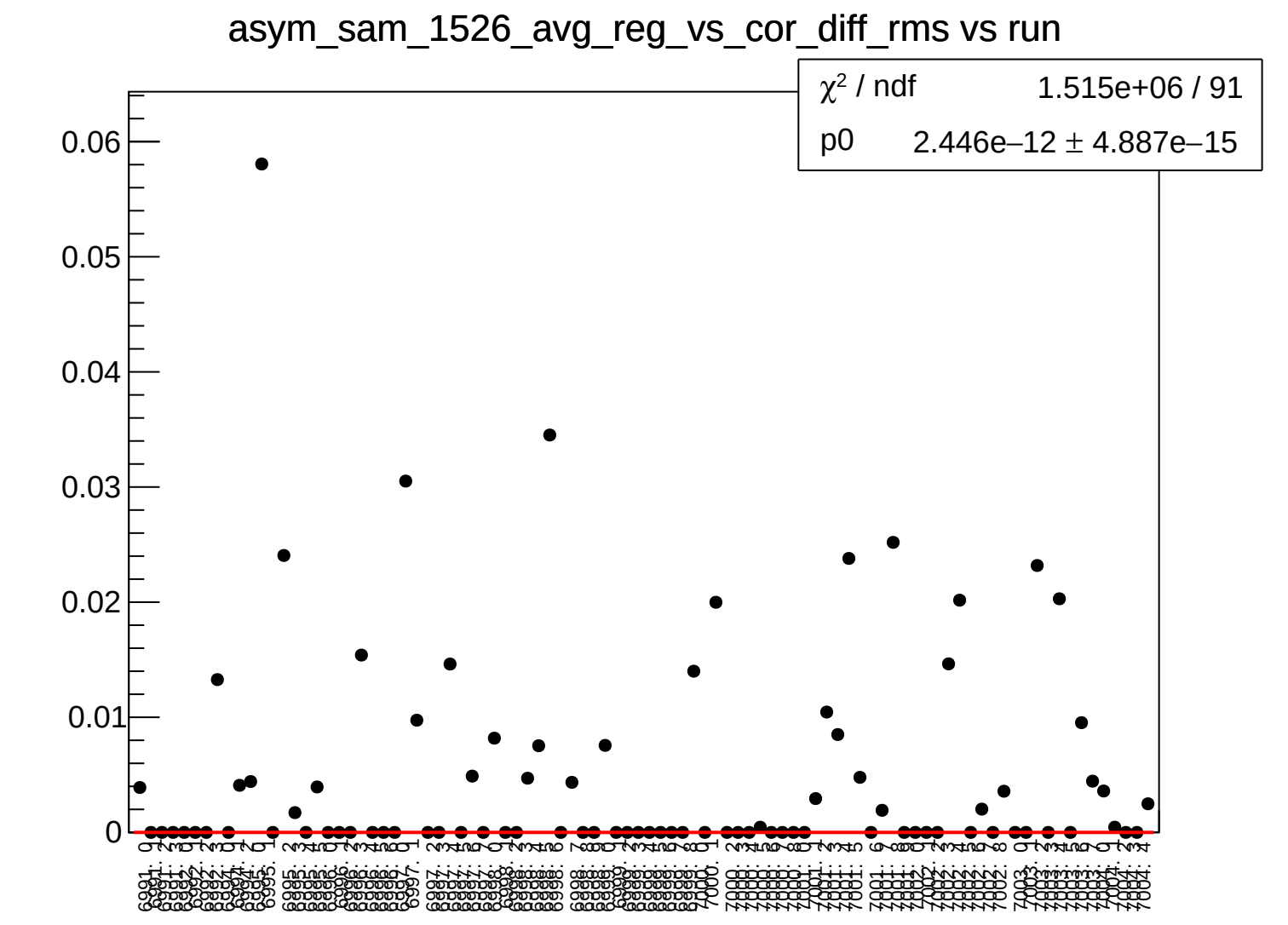

asym_sam_1526_avg_mean vs run
χ² / ndf 85.31 / 91
p0 321.5 ± 327.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −513.1
Std Dev 0
2
1
0
−1
−2

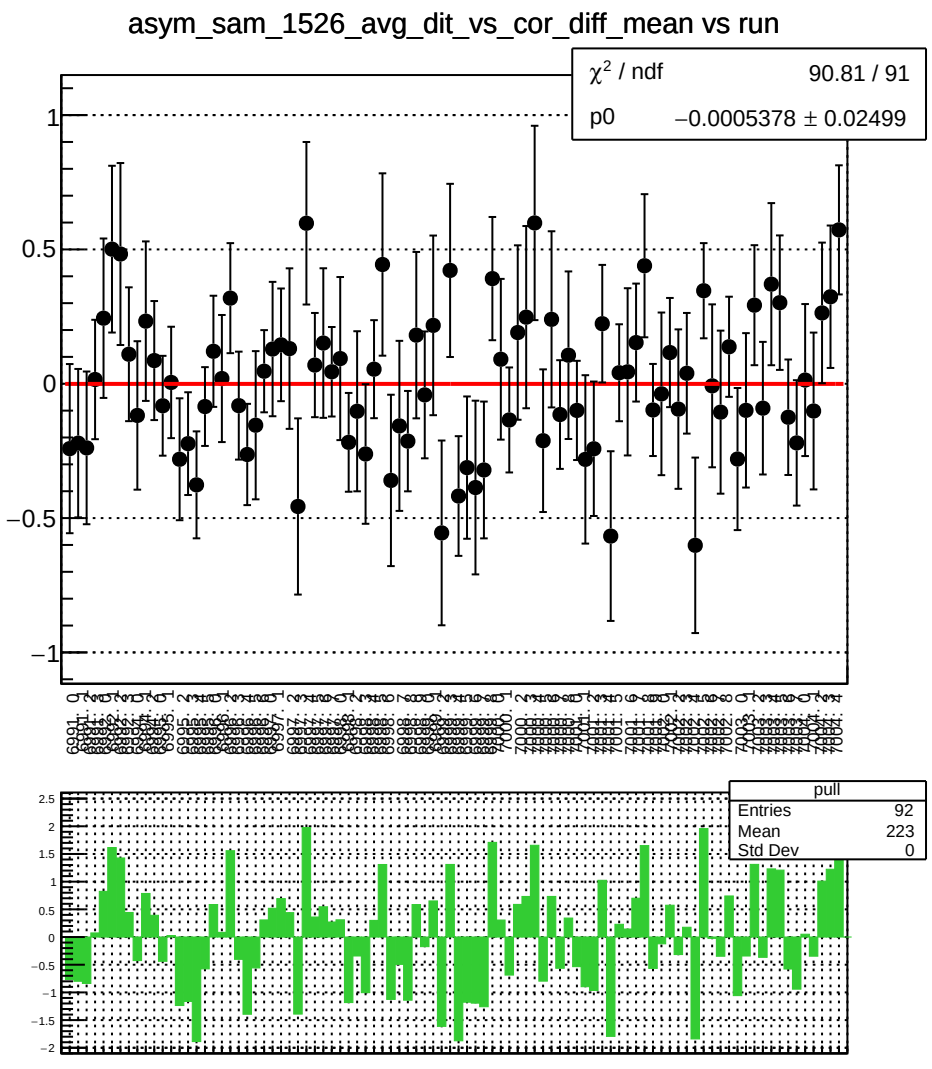

pull1D
Entries 92
Mean 0.005146
Std Dev 0.9629
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

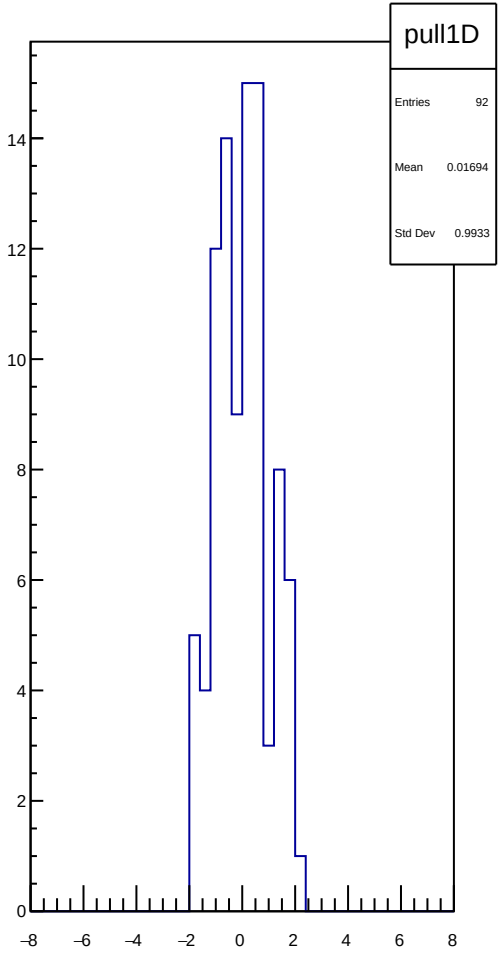

asym_sam_1526_avg_rms vs run
χ² / ndf 6714 / 91
p0 307.4 ± 0.2318
380
360
340
320
300
280

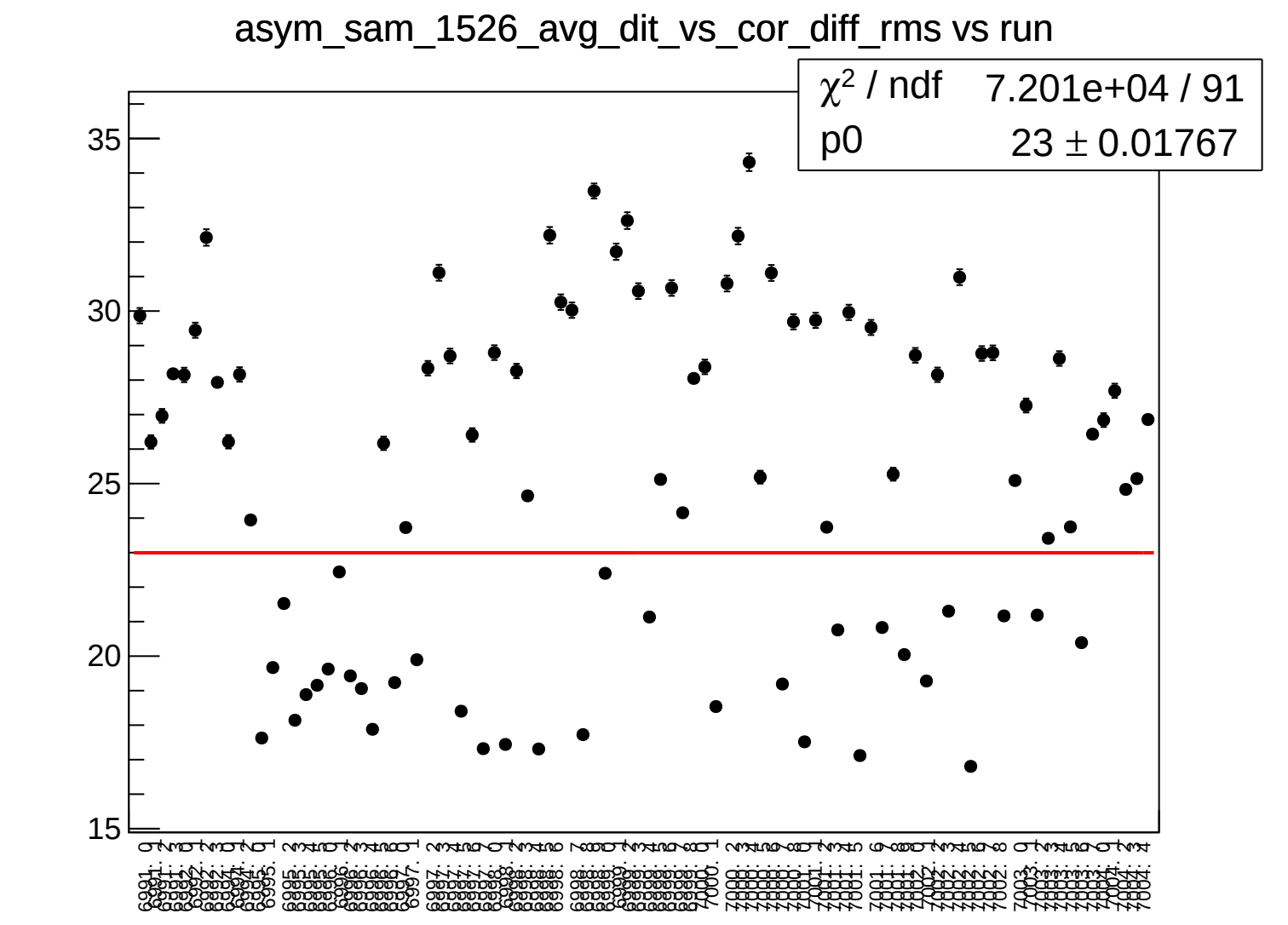

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 91
p0 −6.905e−16 ± 6.911e−15
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 87.21
Std Dev 0
3
2
1
0
−1
−2

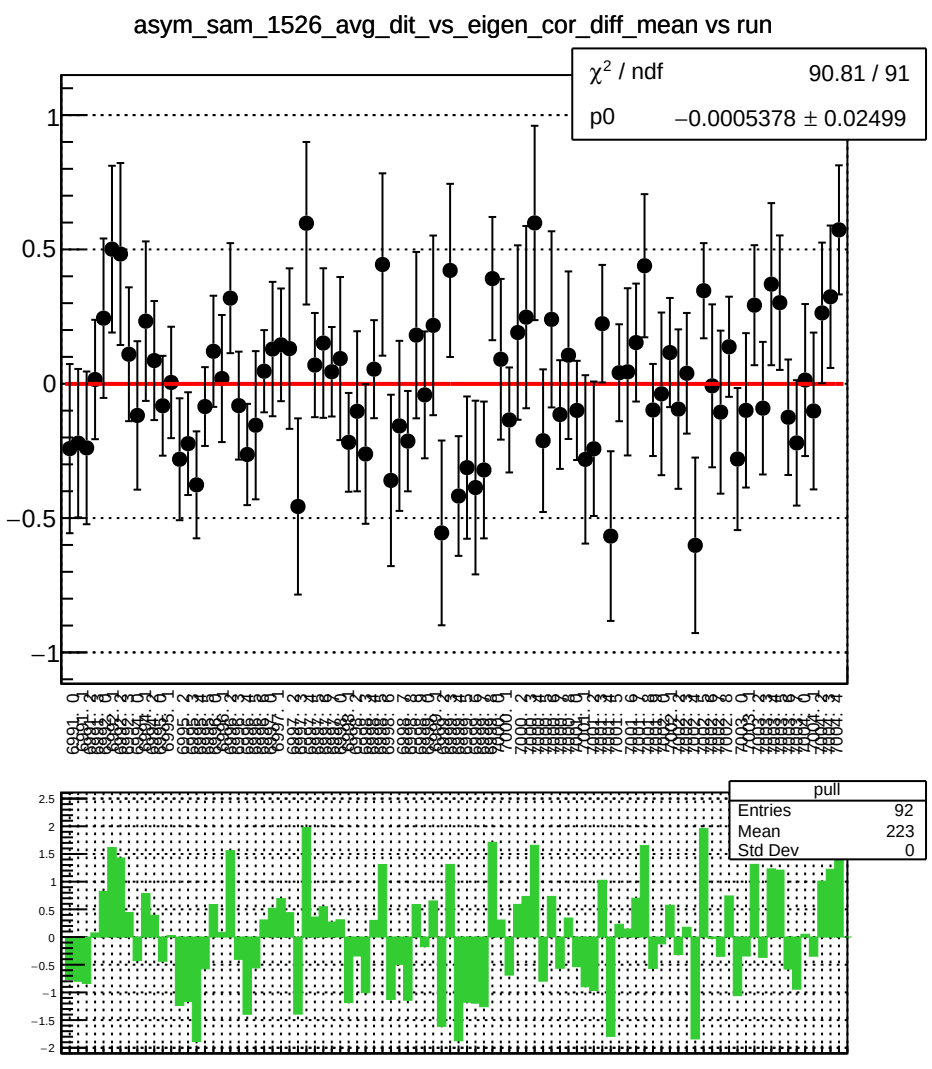

pull1D
Entries 92
Mean 0.1101
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

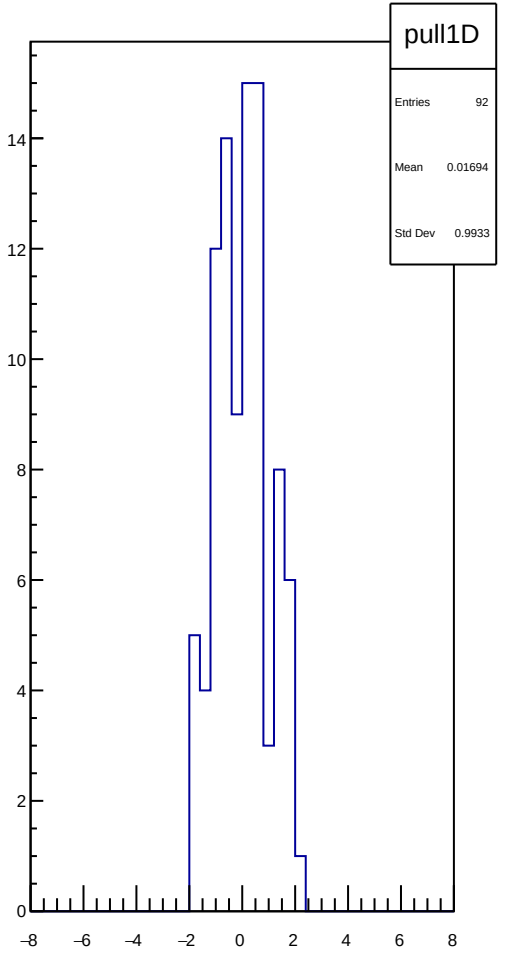

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.515e+06 / 91
p0 2.446e−12 ± 4.887e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

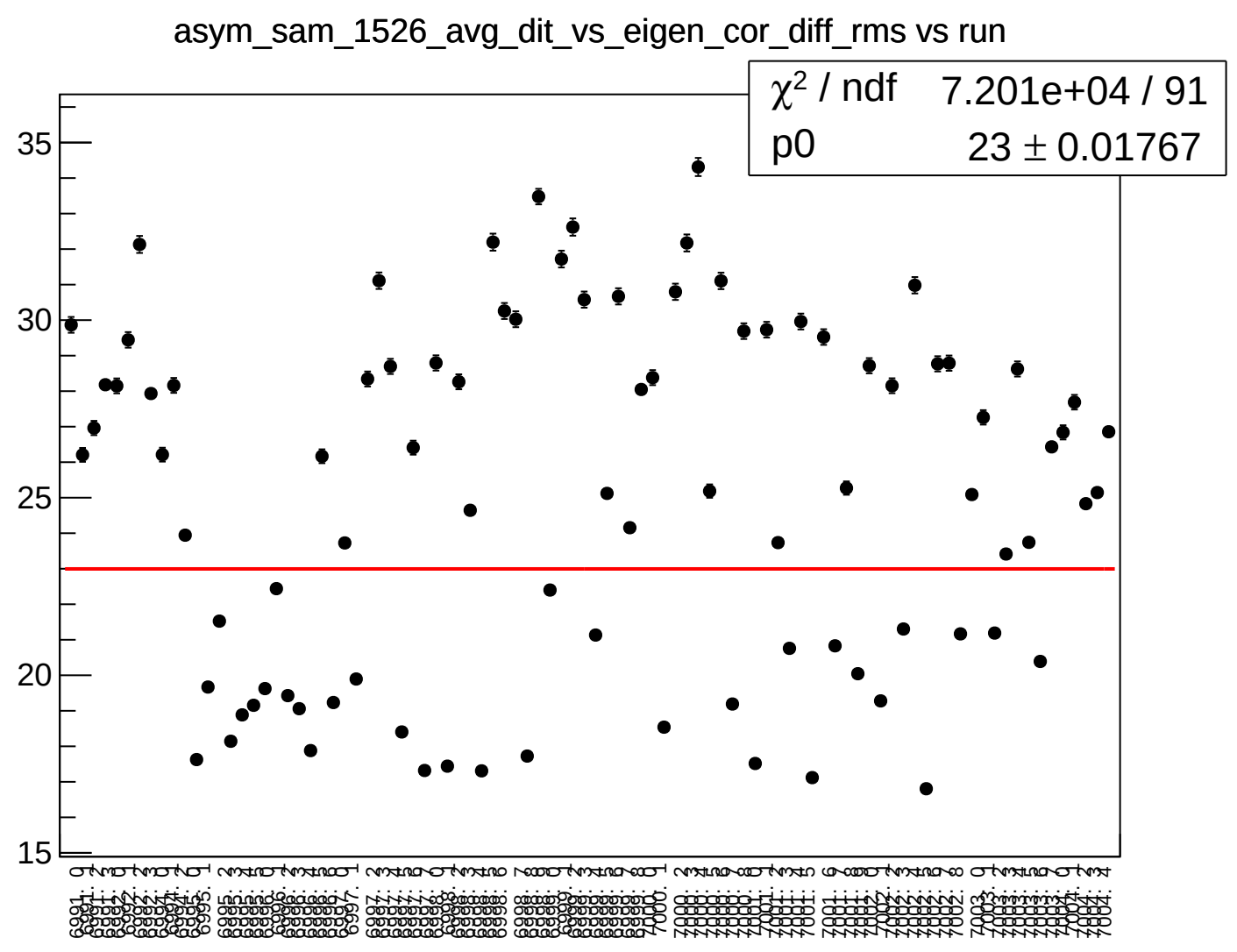

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.81 / 91
p0 −0.0005378 ± 0.02499
pull
Entries 92
Mean 223
Std Dev 0

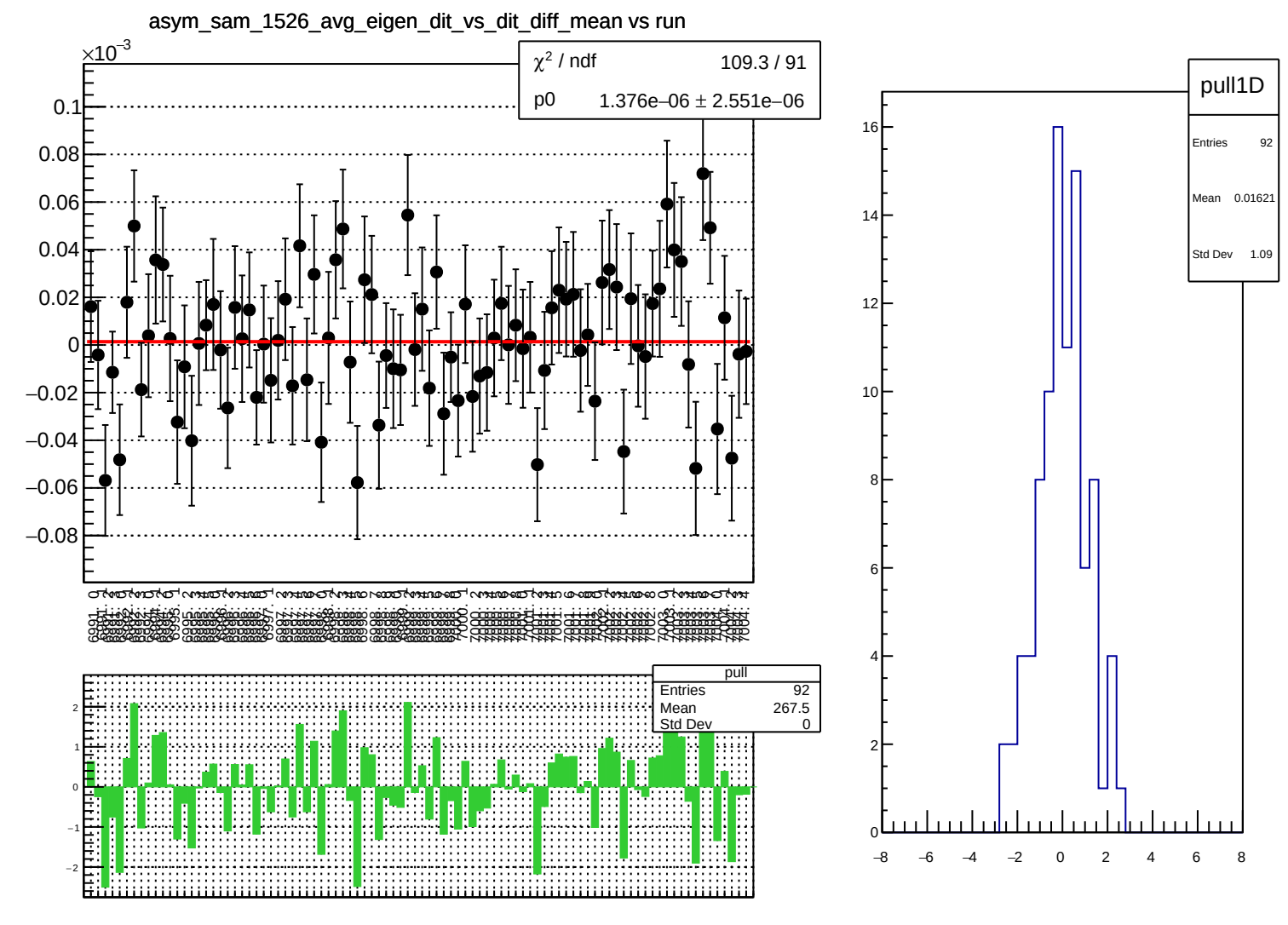

pull1D
Entries 92
Mean 0.01694
Std Dev 0.9933

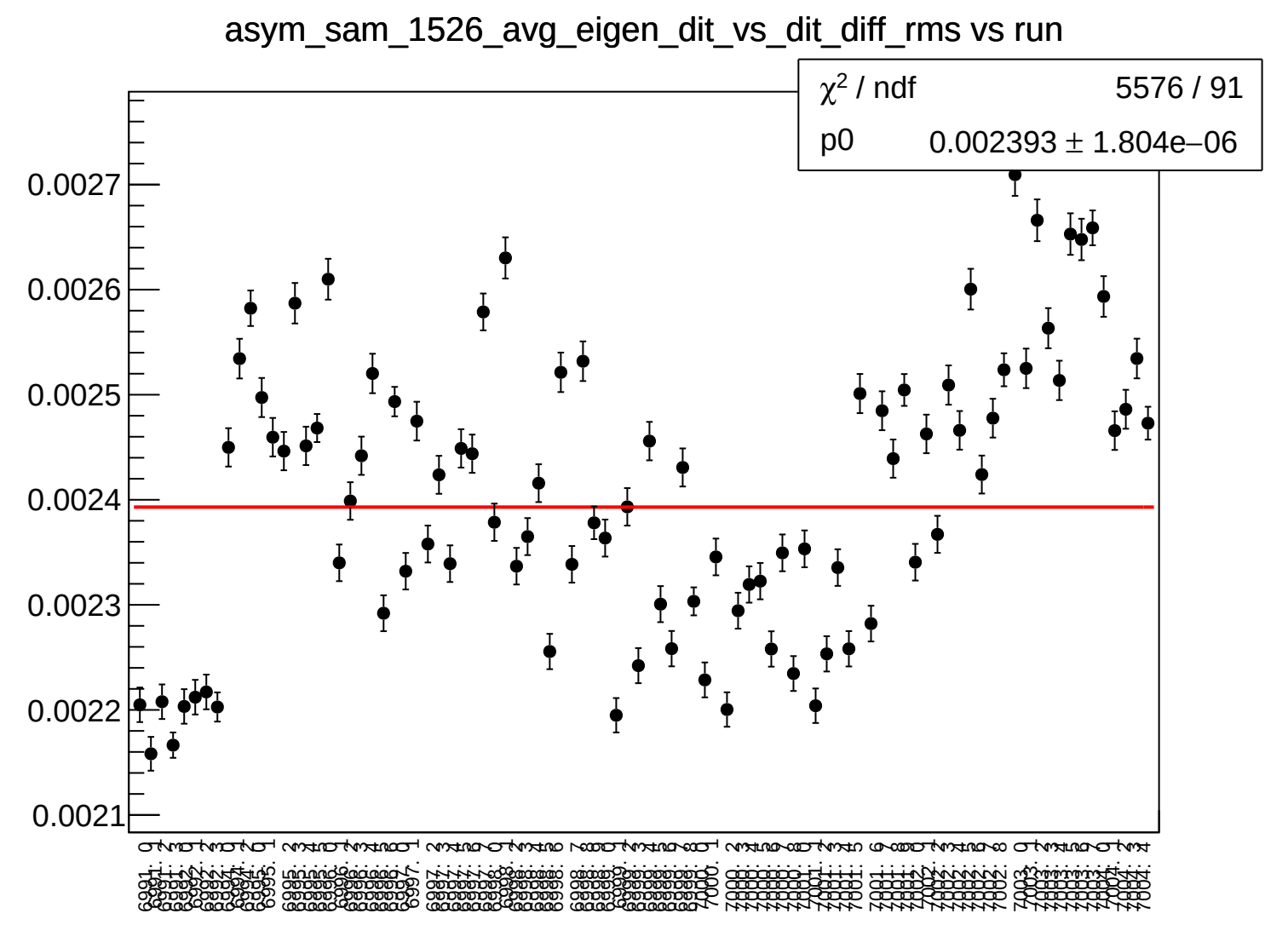

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.201e+04 / 91
p0 23 ± 0.01767
35
30
25
20
15

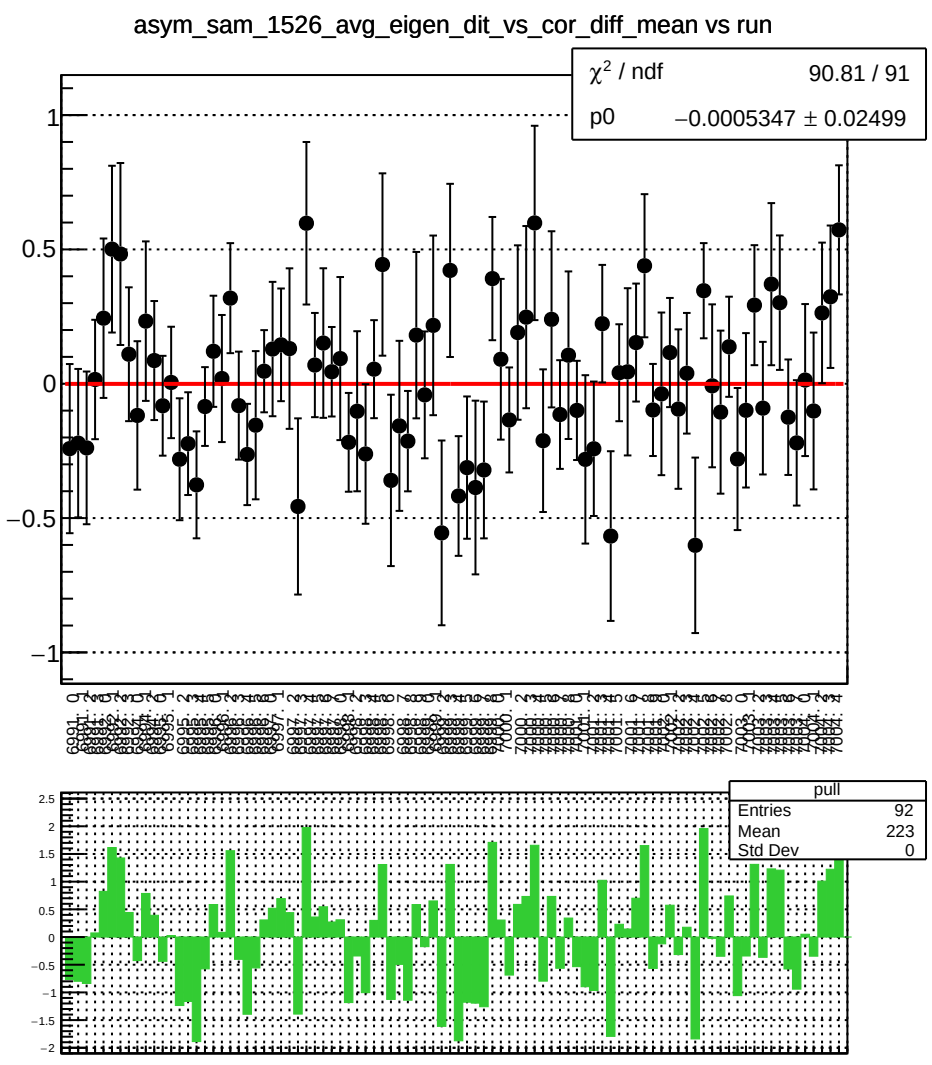

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.81 / 91
p0 −0.0005378 ± 0.02499
pull
Entries 92
Mean 223
Std Dev 0

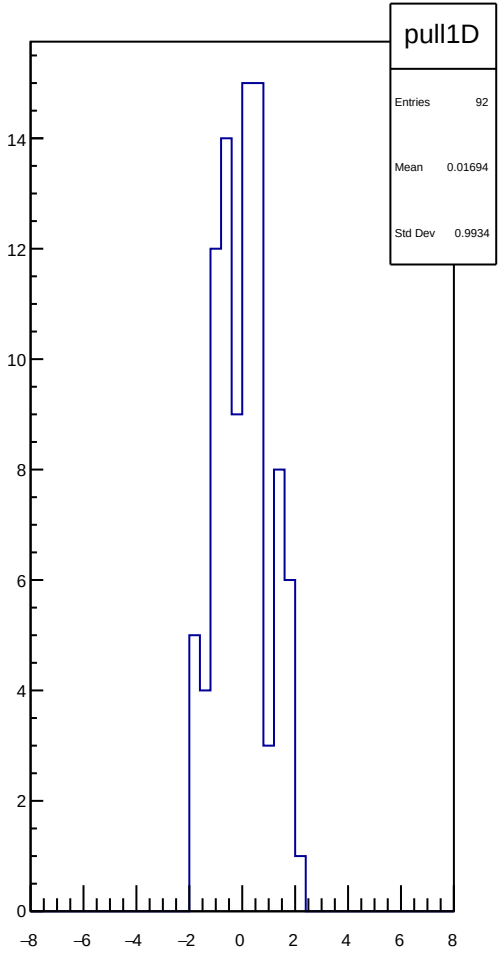

pull1D
Entries 92
Mean 0.01694
Std Dev 0.9933

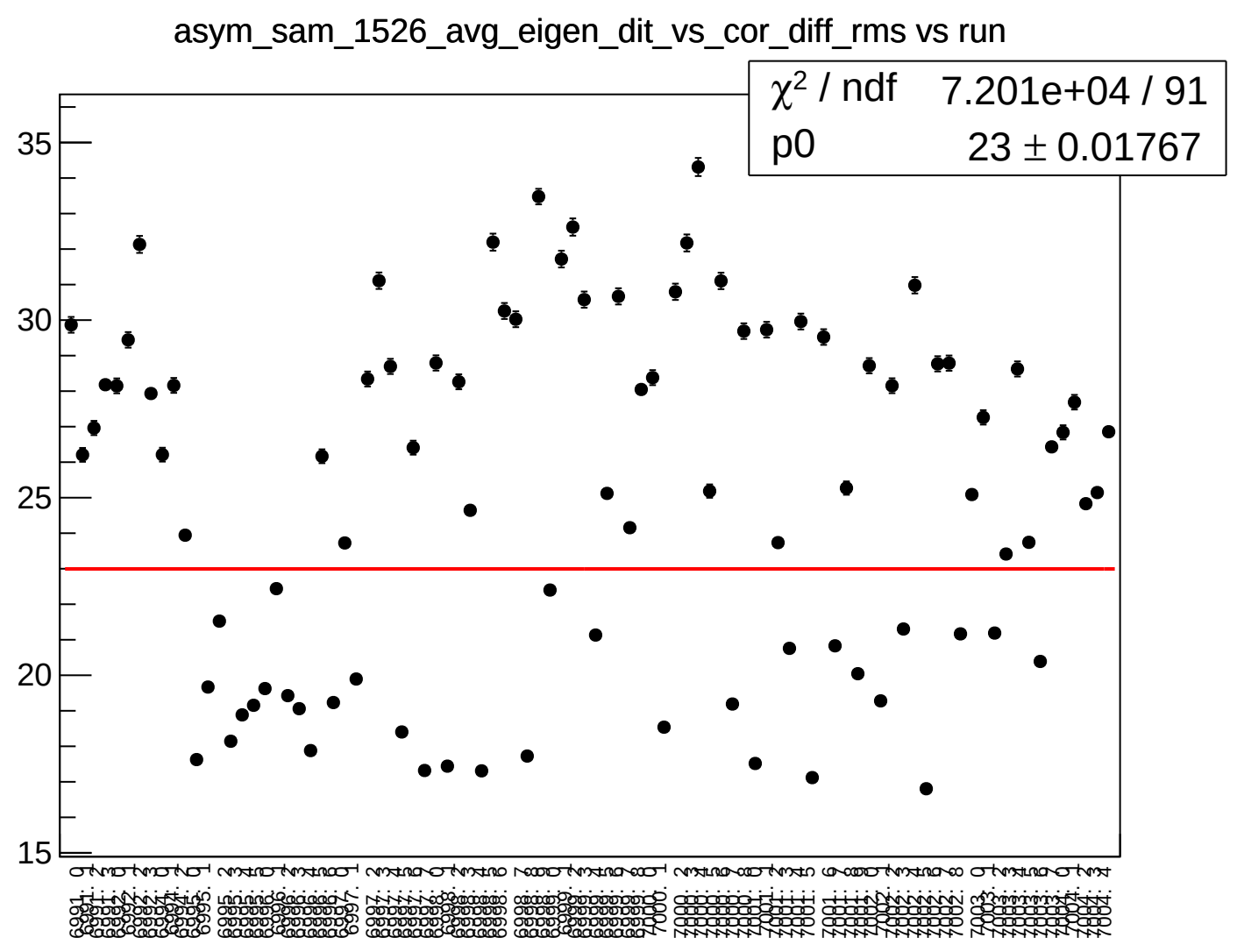

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.201e+04 / 91
p0 23 ± 0.01767
35
30
25
20
15

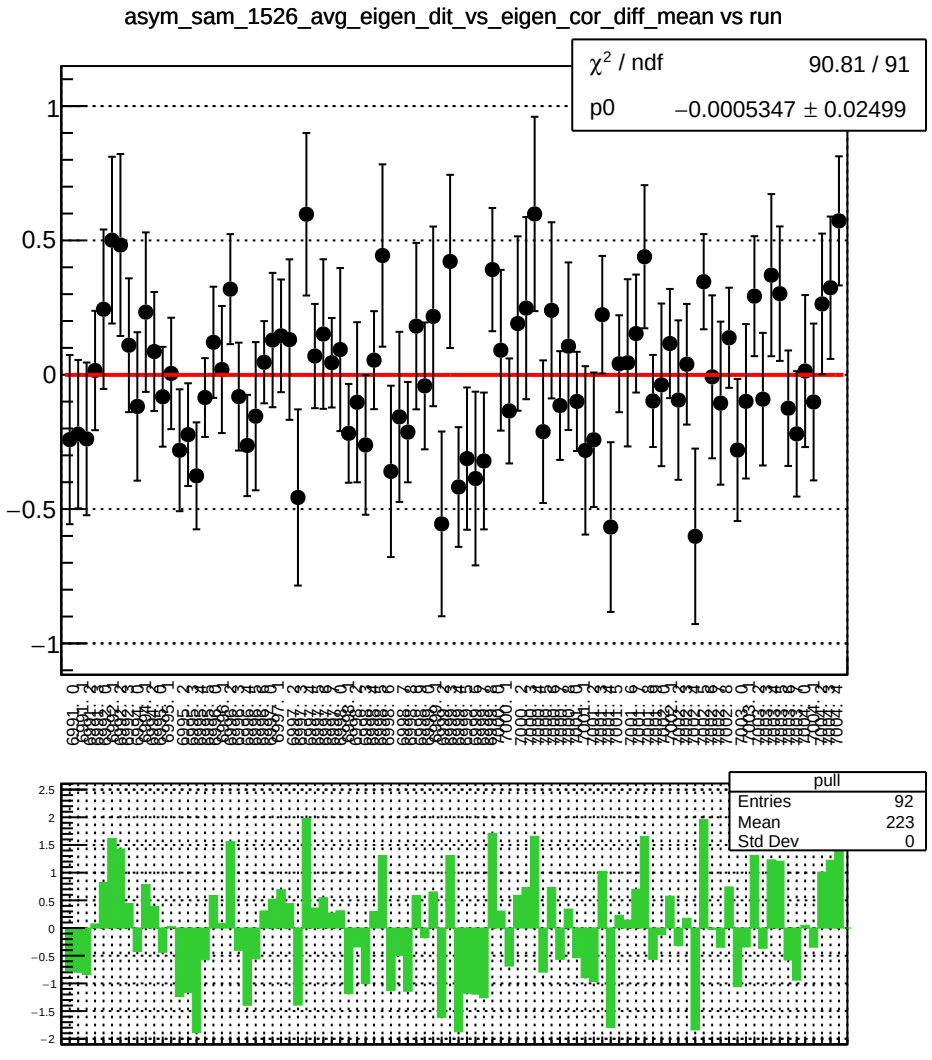

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.3 / 91
p0 1.376e−06 ± 2.551e−06
pull
Entries 92
Mean 267.5
Std Dev 0
pull1D
Entries 92
Mean 0.01621
Std Dev 1.09

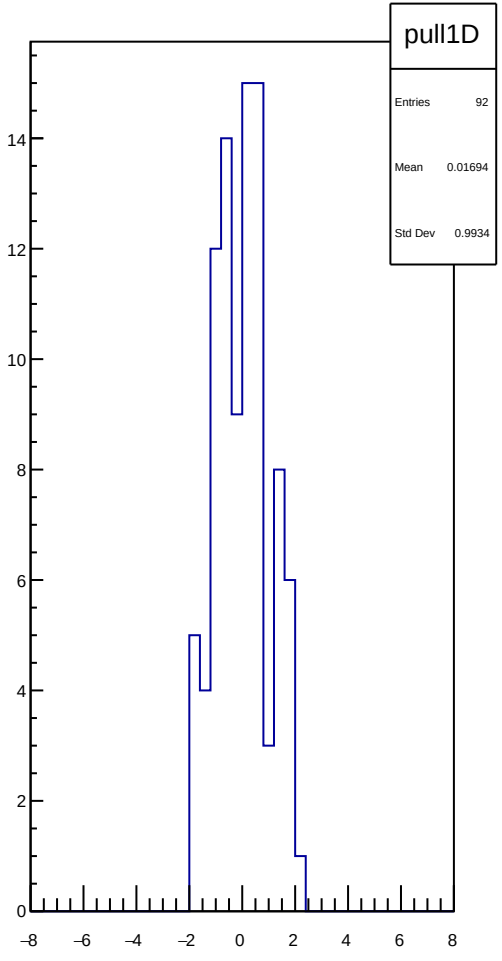

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5576 / 91
p0 0.002393 ± 1.804e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

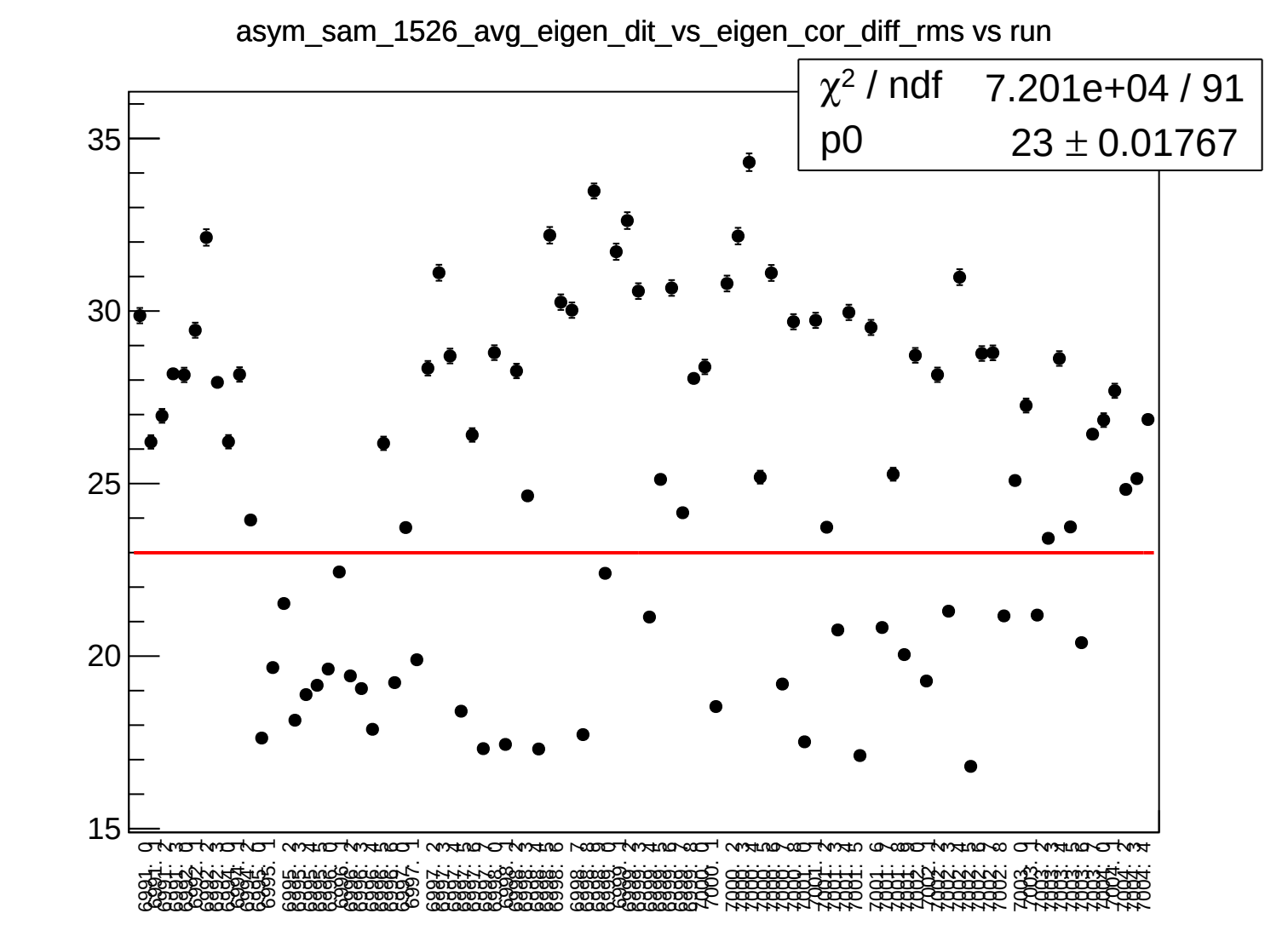

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.81 / 91
p0 −0.0005347 ± 0.02499
pull
Entries 92
Mean 223
Std Dev 0

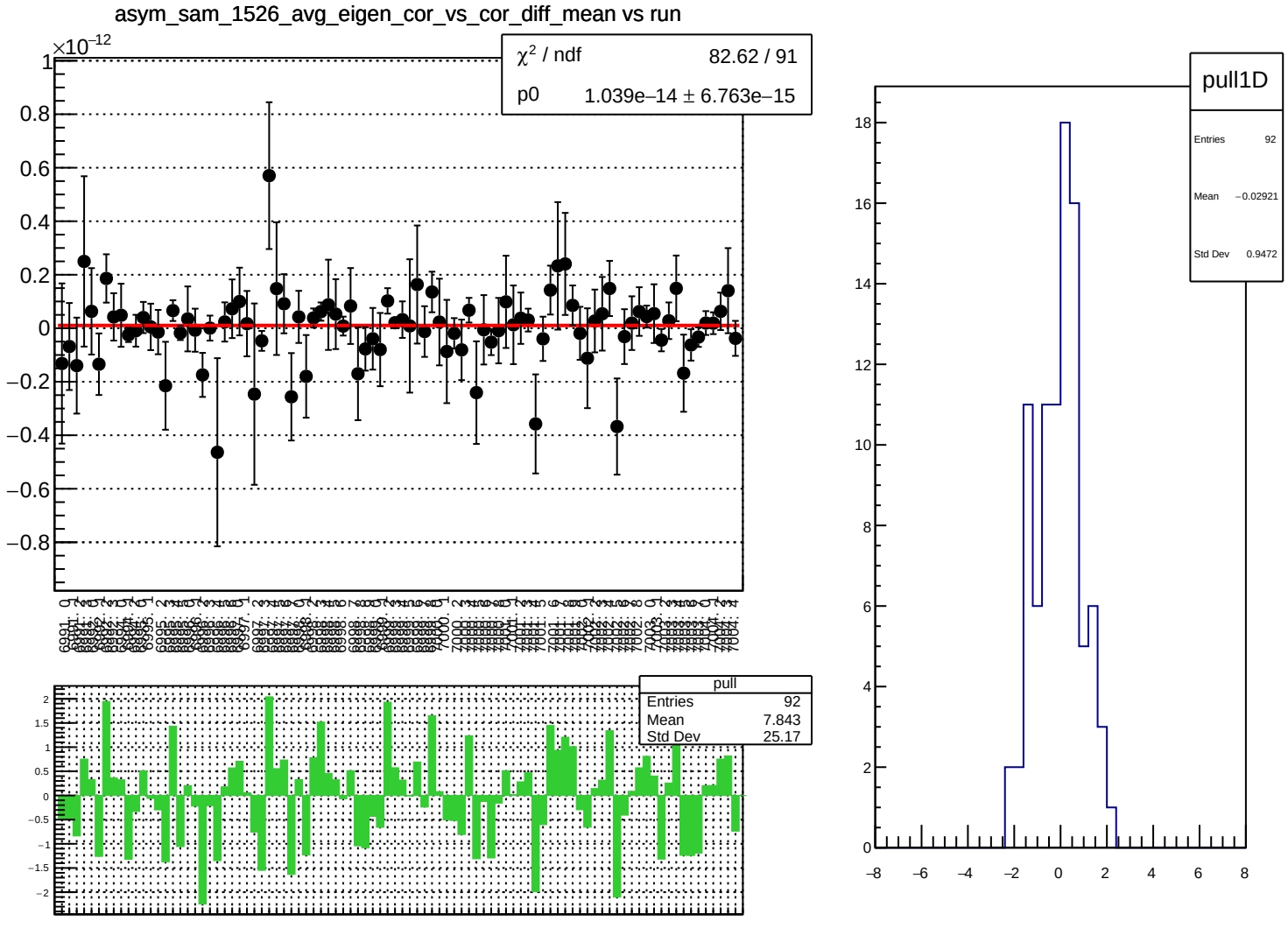

pull1D
Entries 92
Mean 0.01694
Std Dev 0.9934

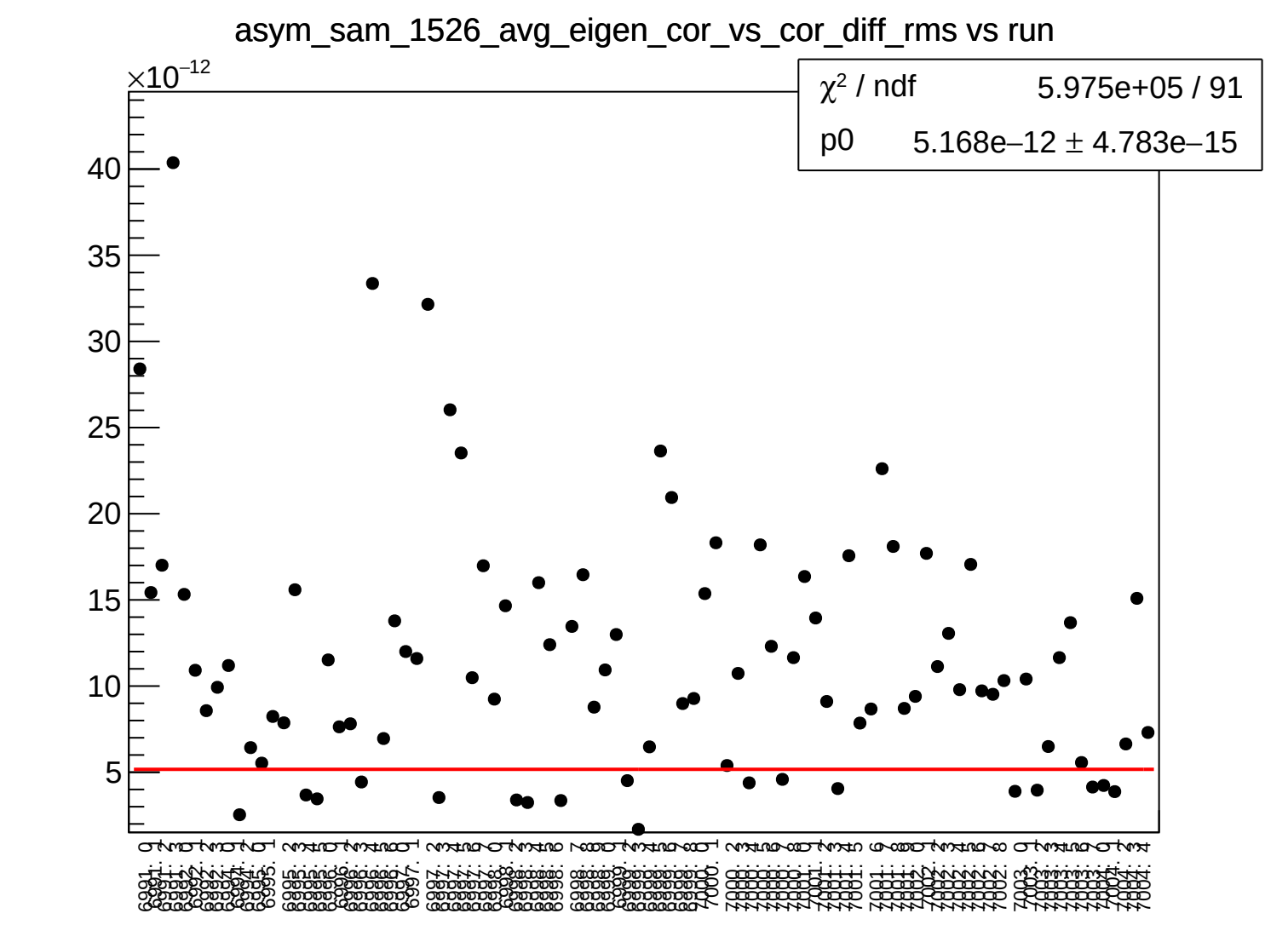

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.201e+04 / 91
p0 23 ± 0.01767
35
30
25
20
15

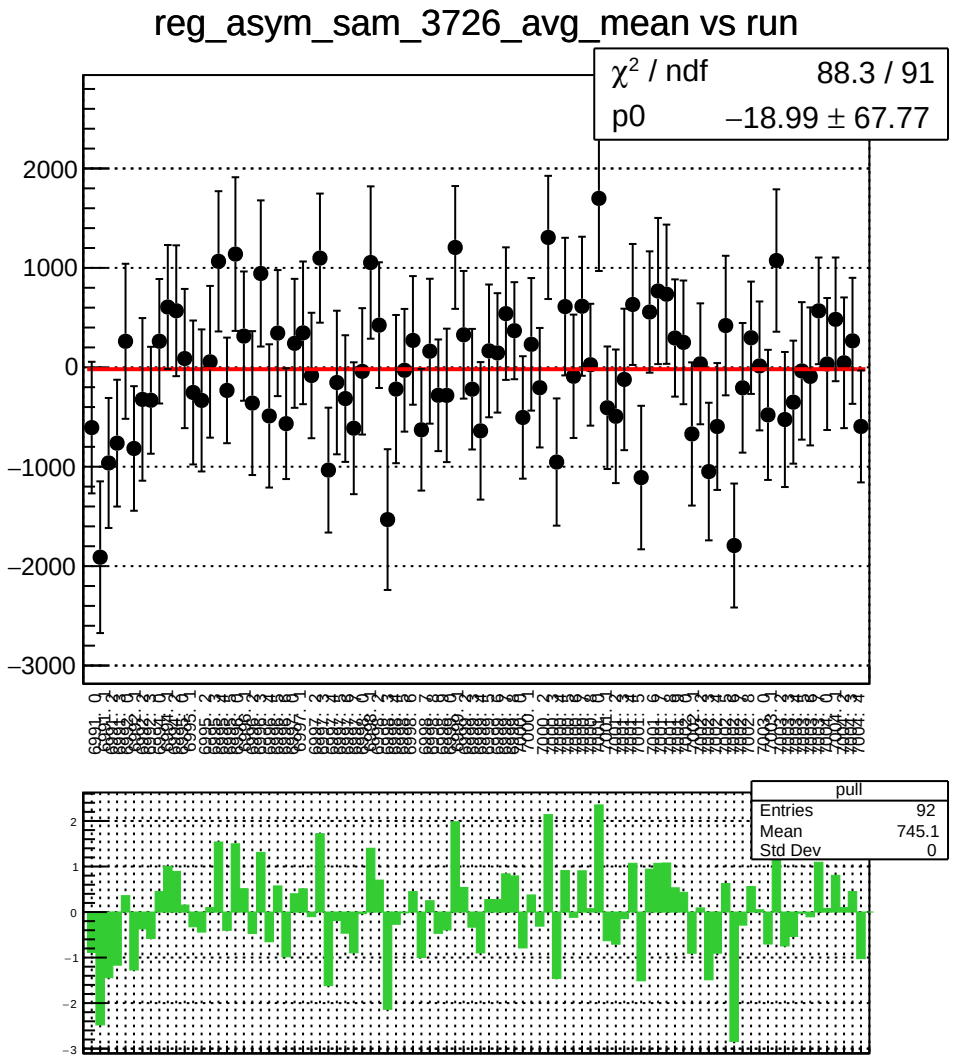

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.81 / 91
p0 −0.0005347 ± 0.02499
pull
Entries 92
Mean 223
Std Dev 0

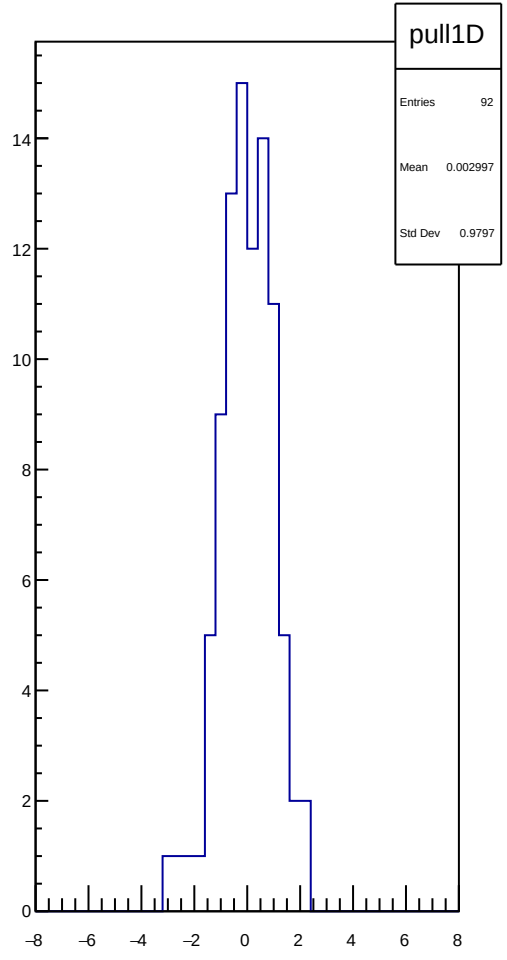

pull1D
Entries 92
Mean 0.01694
Std Dev 0.9934

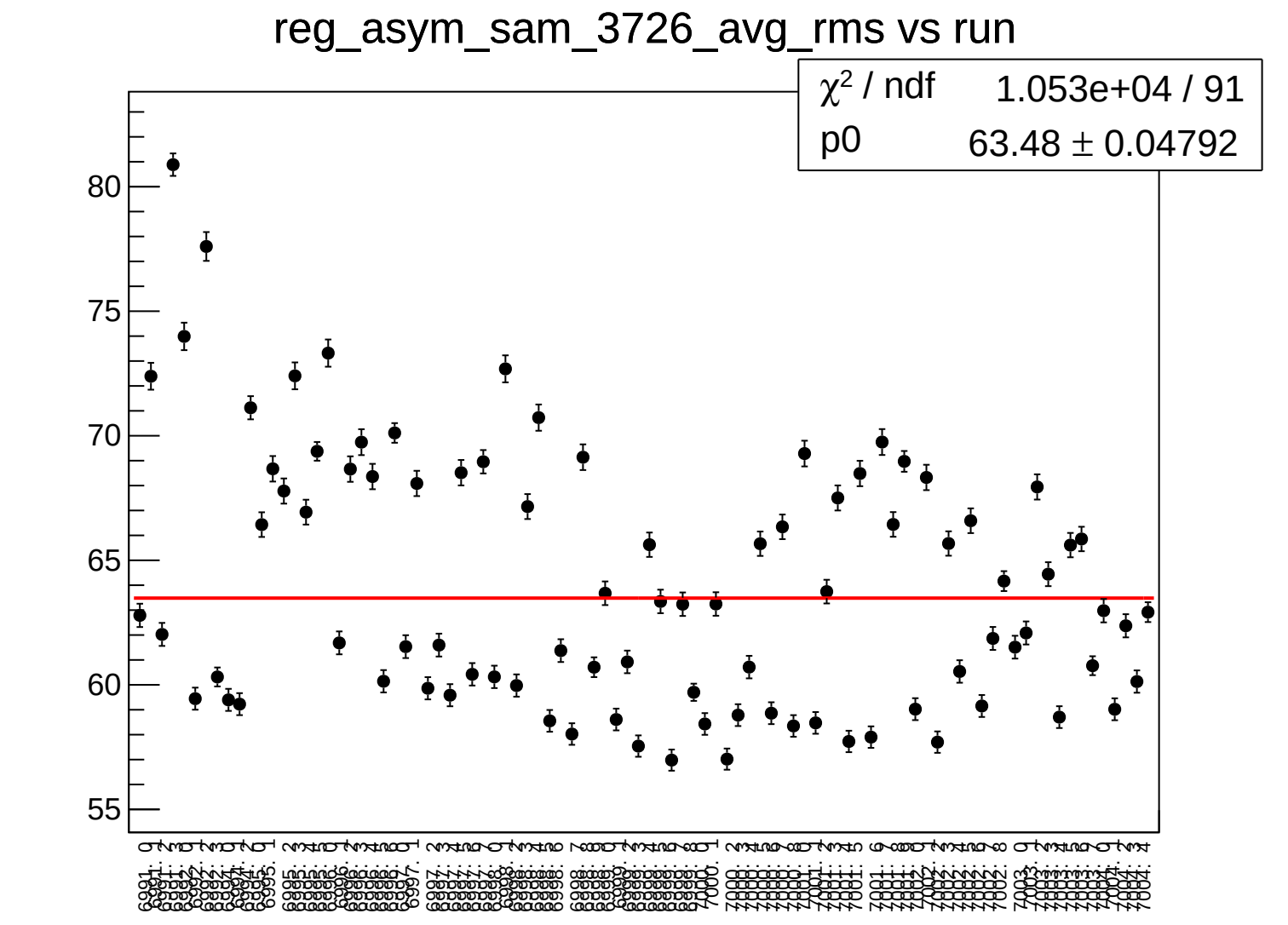

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.201e+04 / 91
p0 23 ± 0.01767
35
30
25
20
15

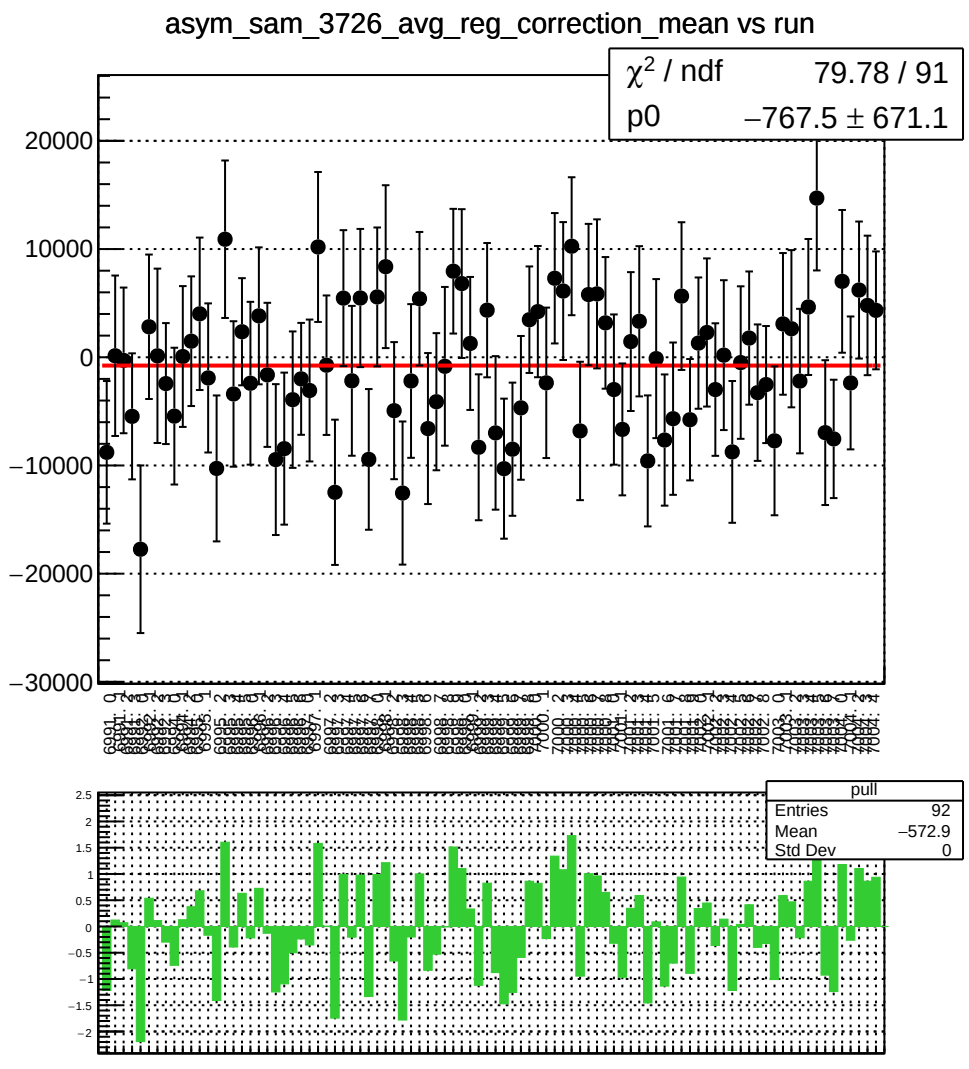

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.62 / 91
p0 1.039e−14 ± 6.763e−15
pull
Entries 92
Mean 7.843
Std Dev 25.17
pull1D
Entries 92
Mean −0.02921
Std Dev 0.9472

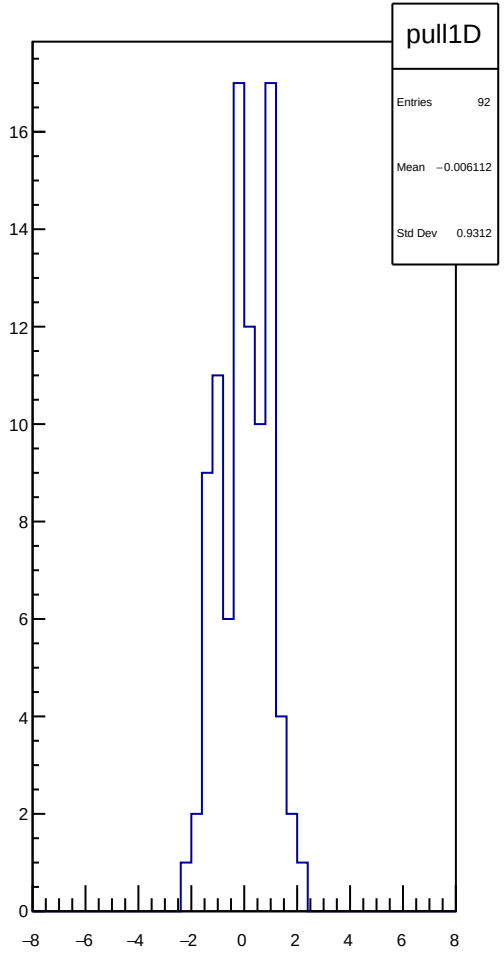

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.975e+05 / 91
p0 5.168e−12 ± 4.783e−15
40
35
30
25
20
15
10
5

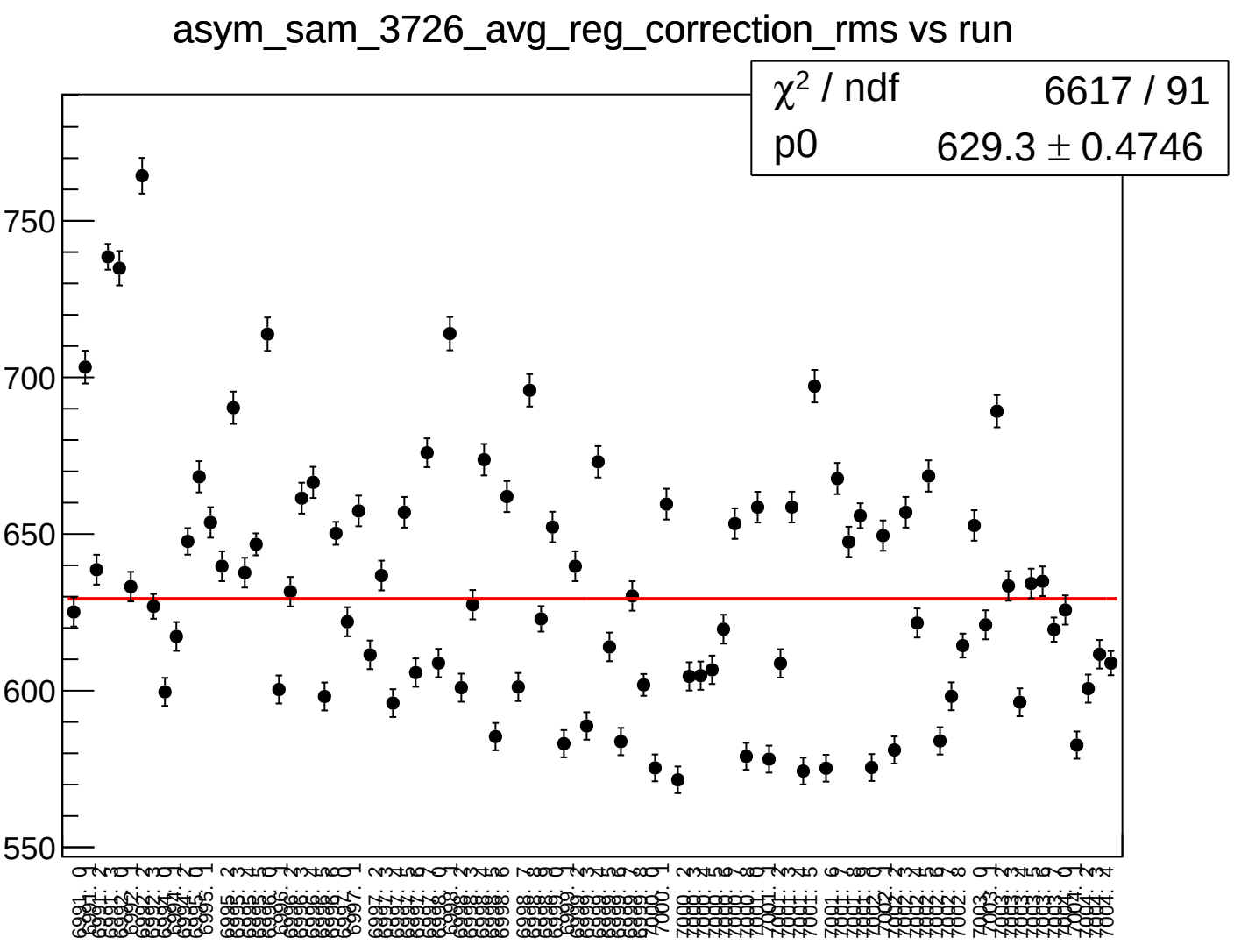

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 88.3 / 91
p0 −18.99 ± 67.77
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 745.1
Std Dev 0
2
1
0
−1
−2
−3

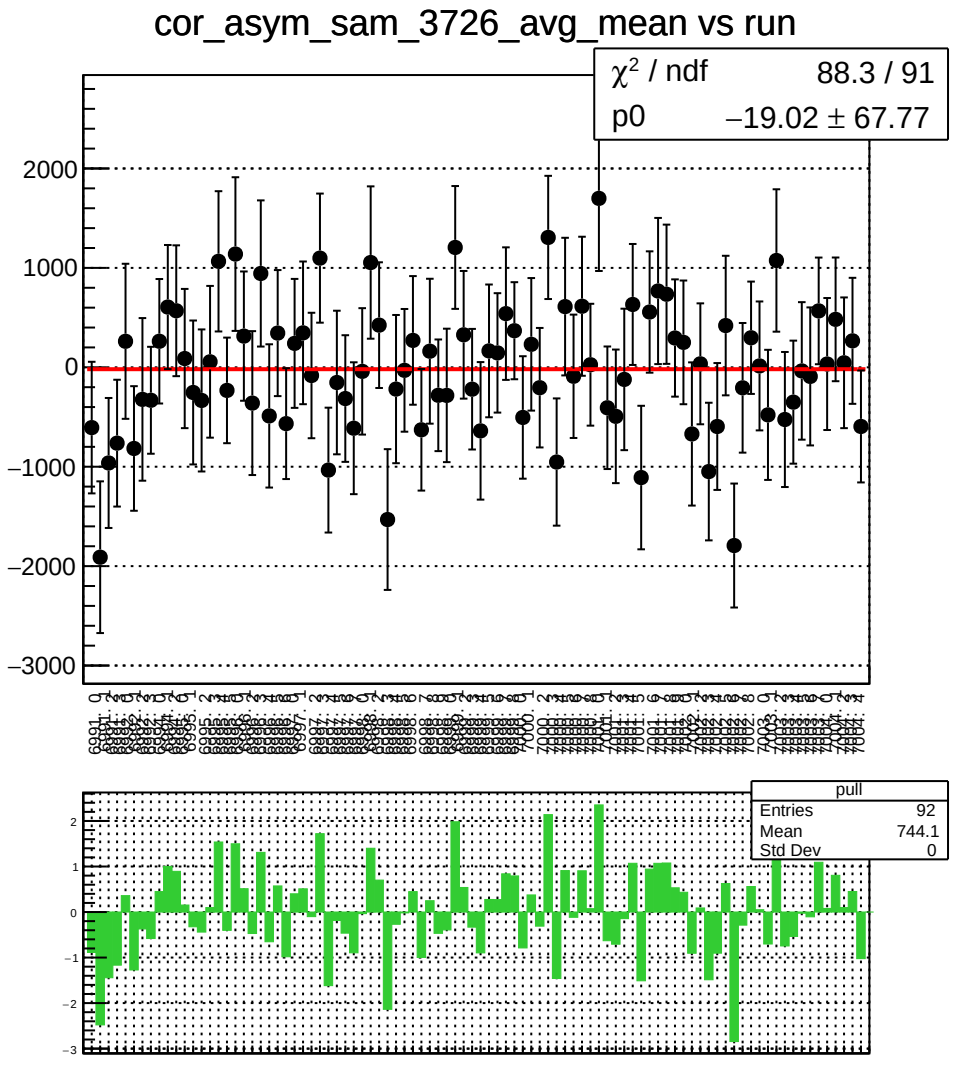

pull1D
Entries 92
Mean 0.002997
Std Dev 0.9797
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

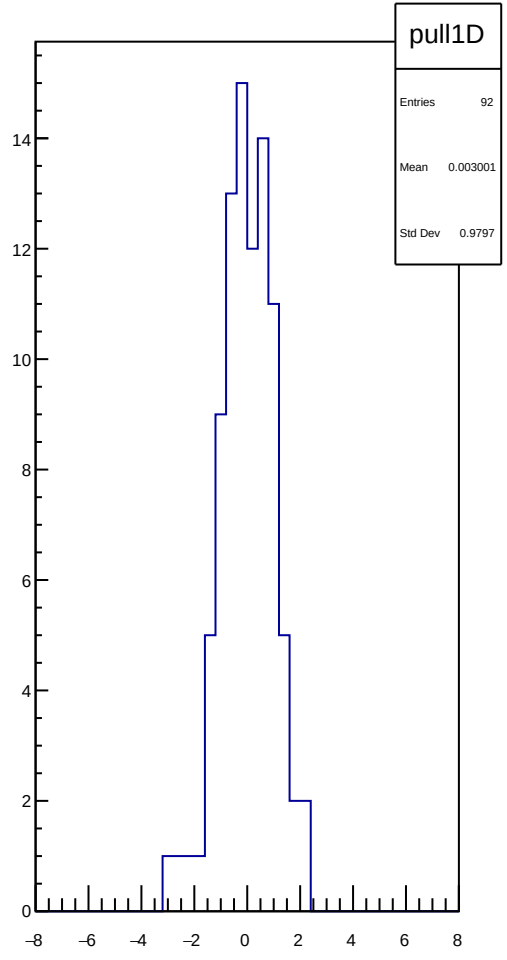

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.053e+04 / 91
p0 63.48 ± 0.04792
80
75
70
65
60
55

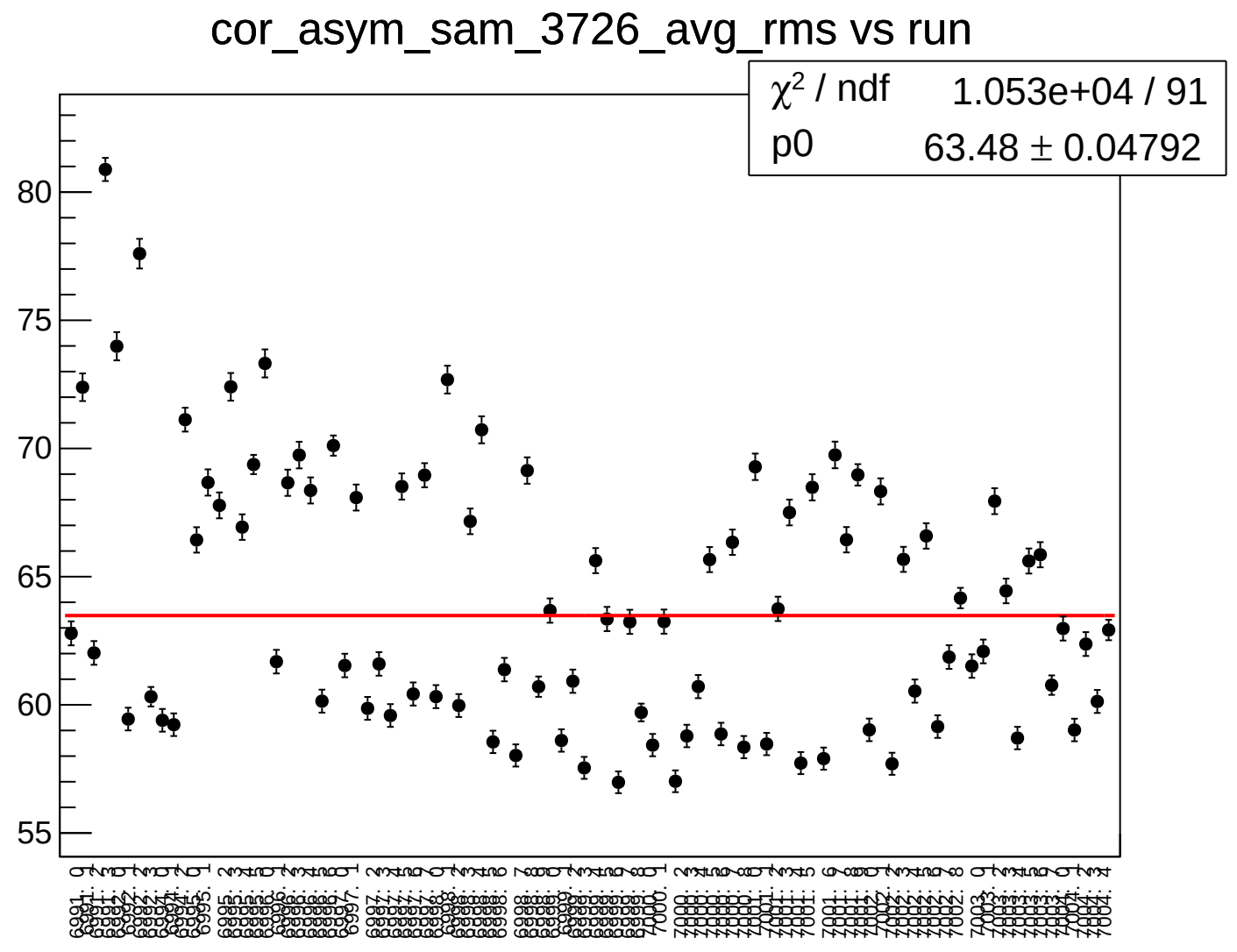

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 79.78 / 91
p0 −767.5 ± 671.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −572.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

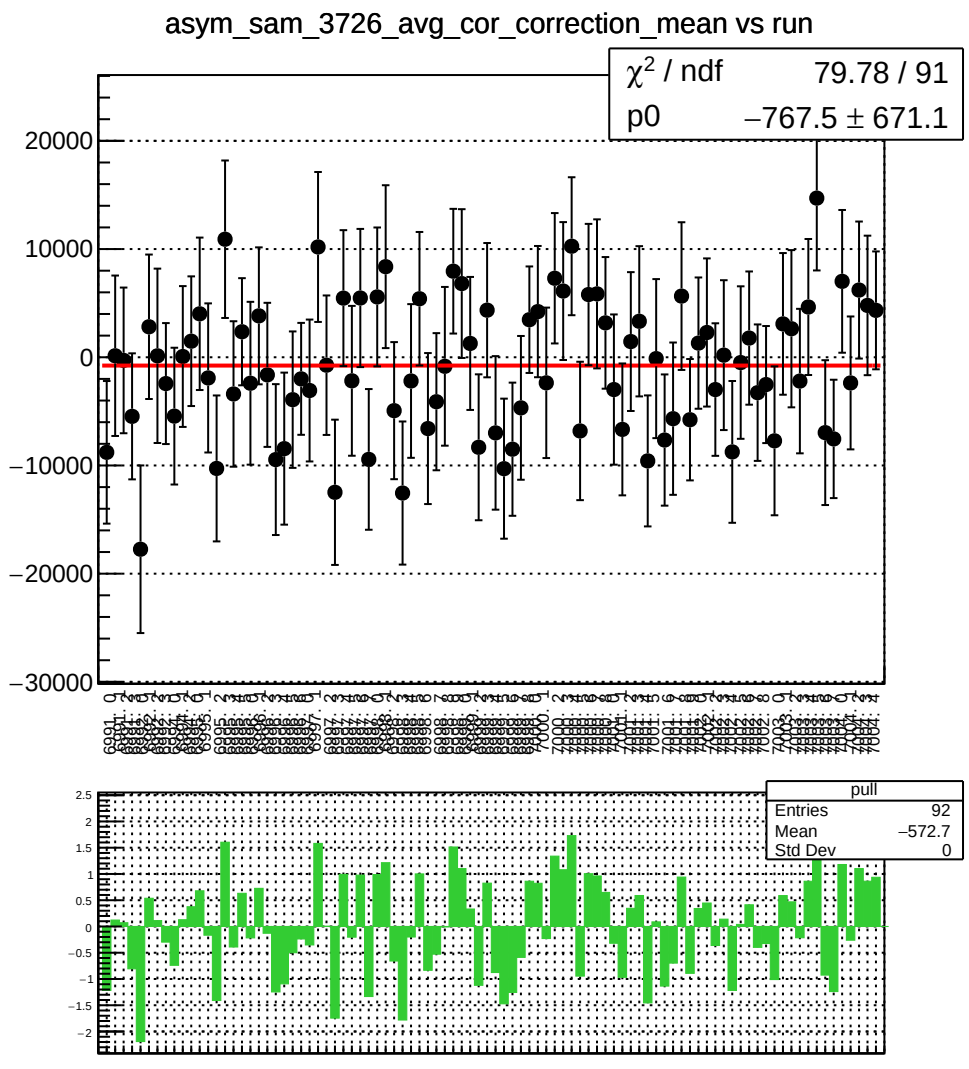

pull1D
Entries 92
Mean −0.006112
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

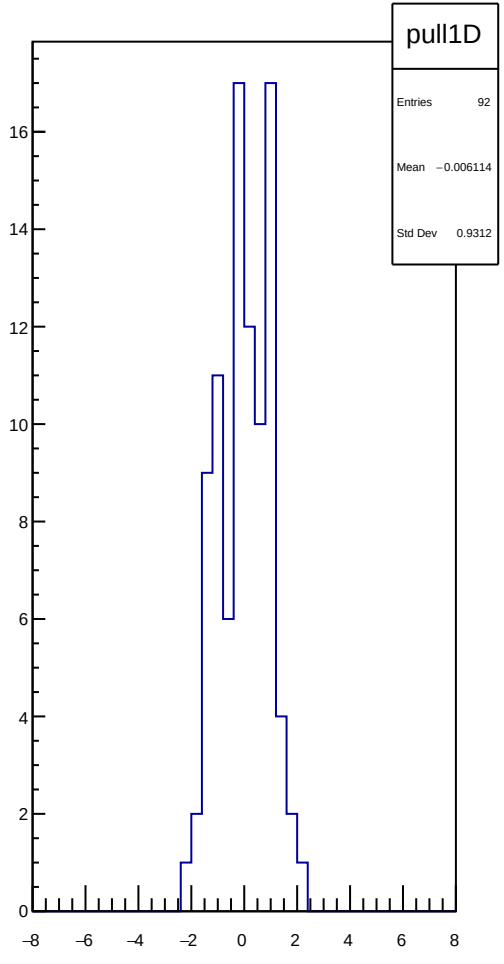

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 6617 / 91
p0 629.3 ± 0.4746
750
700
650
600
550

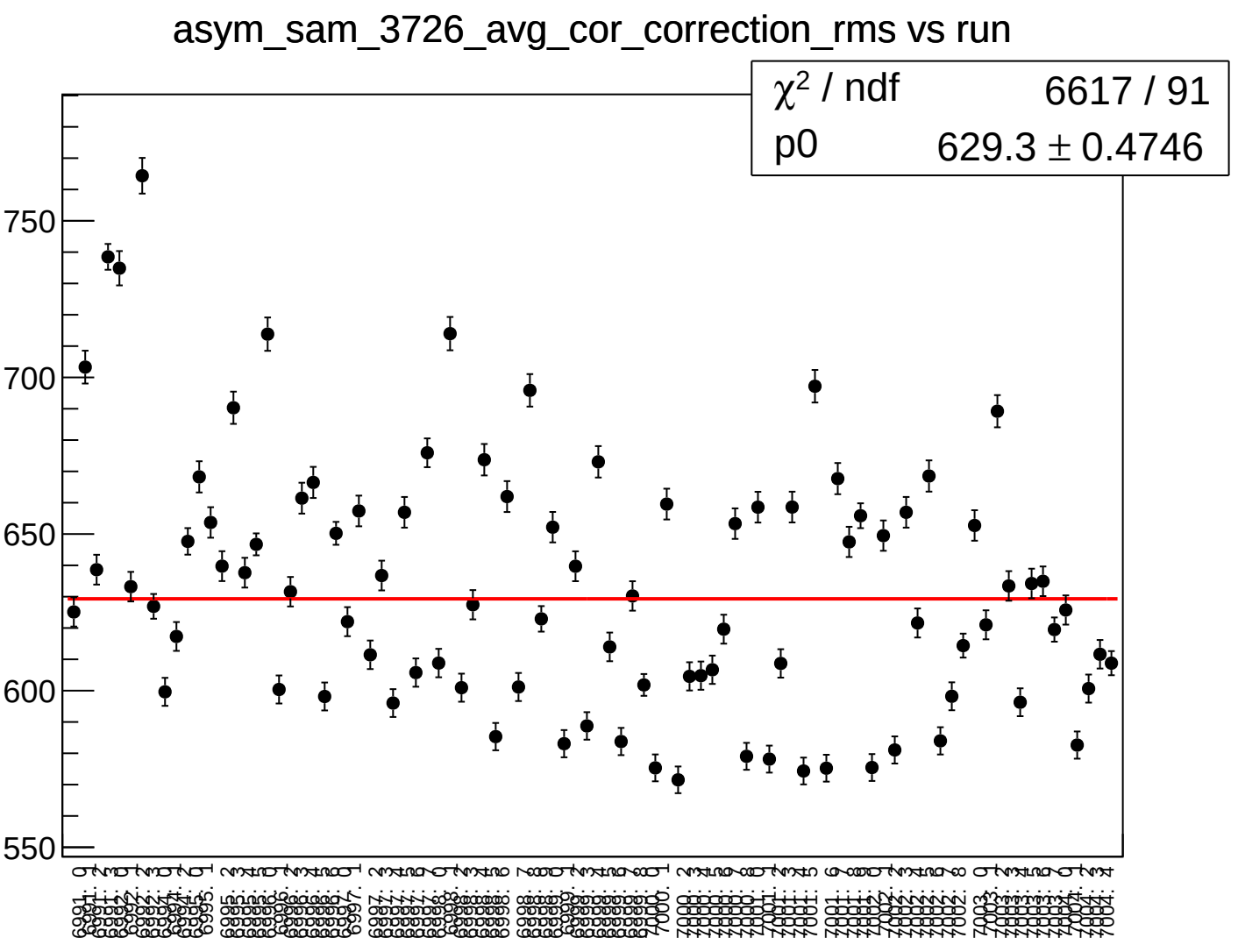

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 88.3 / 91
p0 −19.02 ± 67.77
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 744.1
Std Dev 0
2
1
0
−1
−2
−3

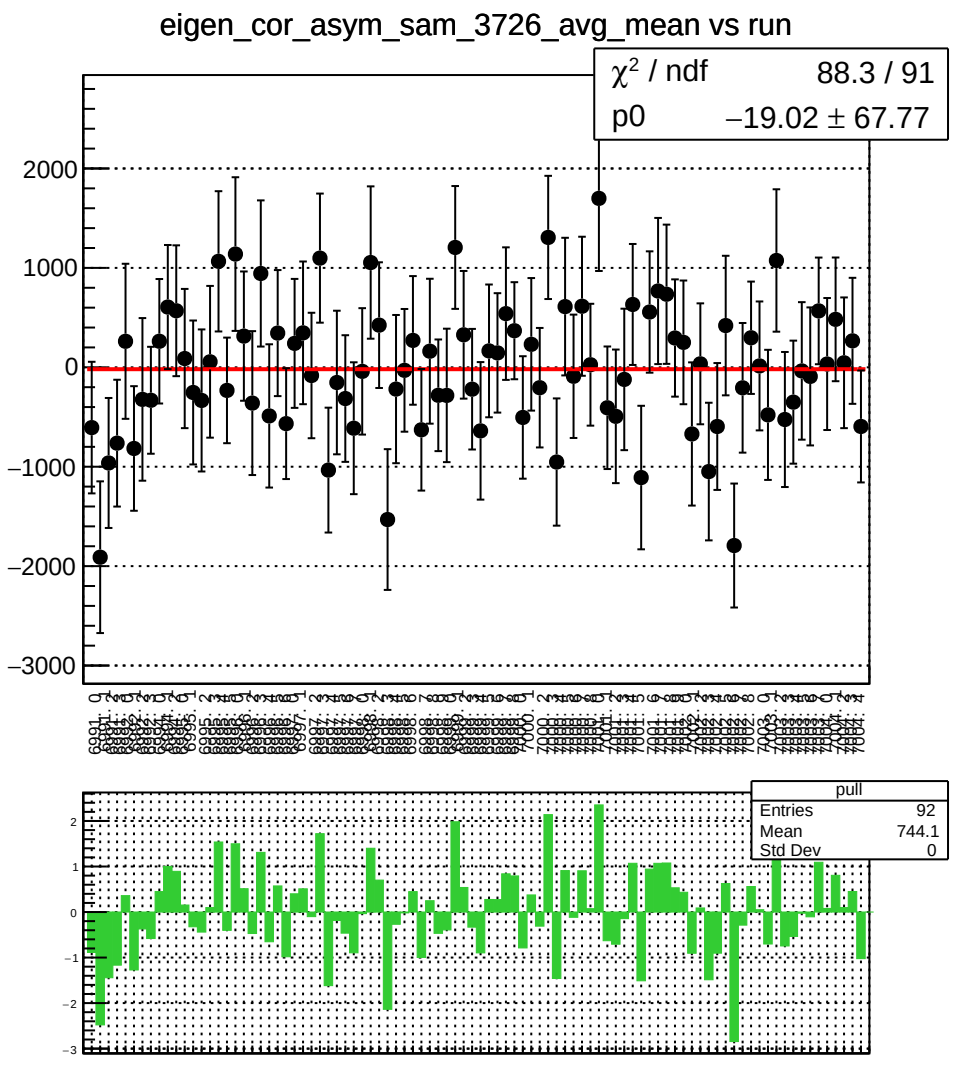

pull1D
Entries 92
Mean 0.003001
Std Dev 0.9797
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

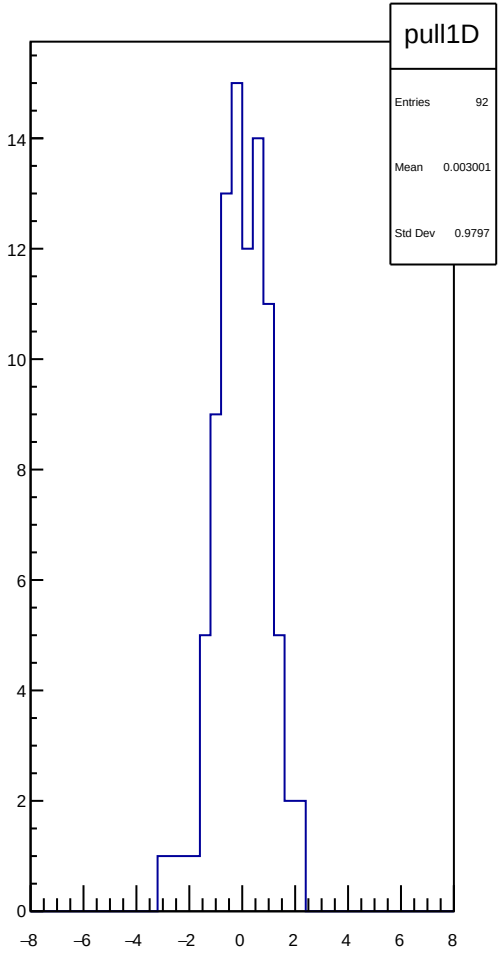

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.053e+04 / 91
p0 63.48 ± 0.04792
80
75
70
65
60
55

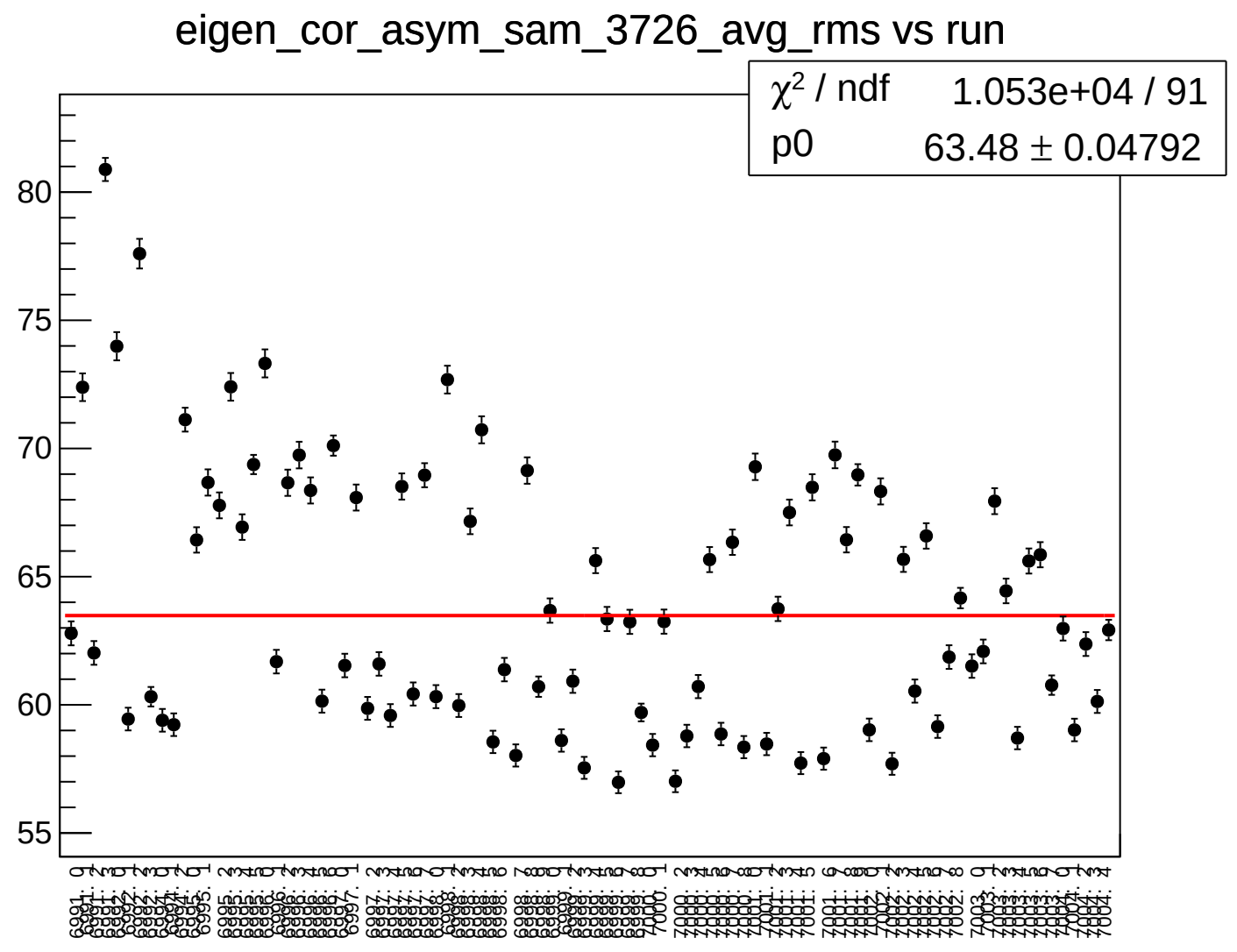

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 79.78 / 91
p0 −767.5 ± 671.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −572.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

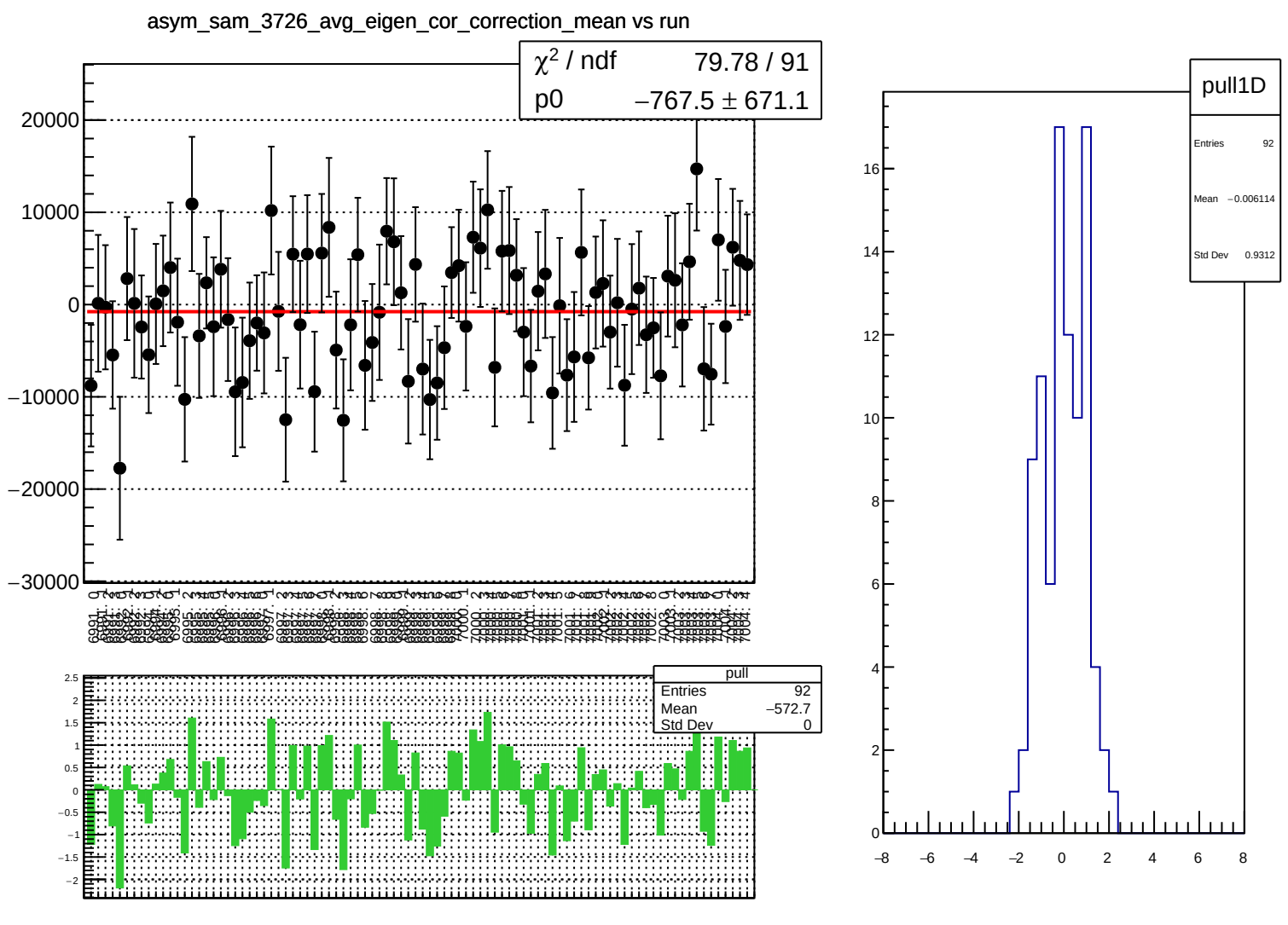

pull1D
Entries 92
Mean −0.006114
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

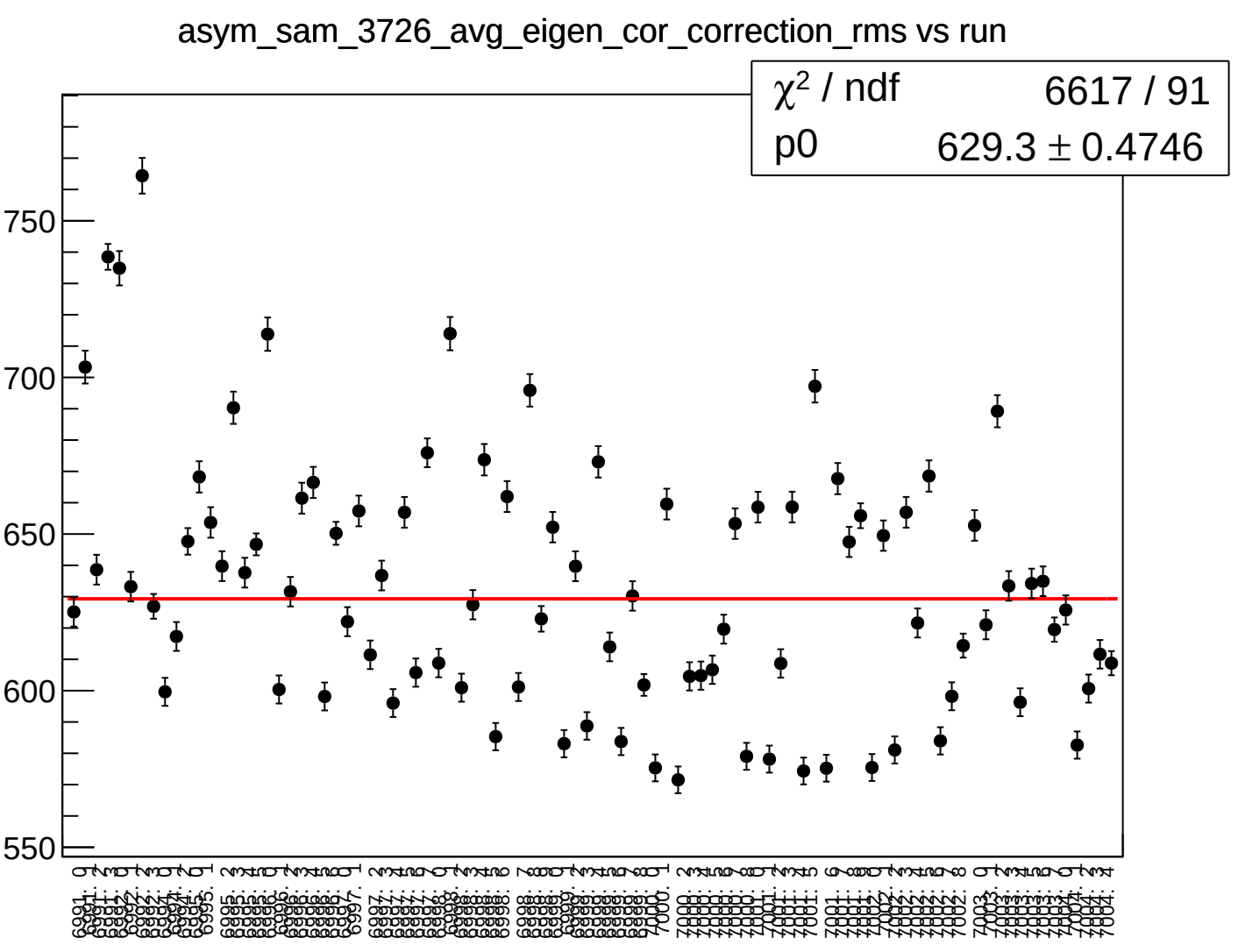

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 6617 / 91
p0 629.3 ± 0.4746
750
700
650
600
550

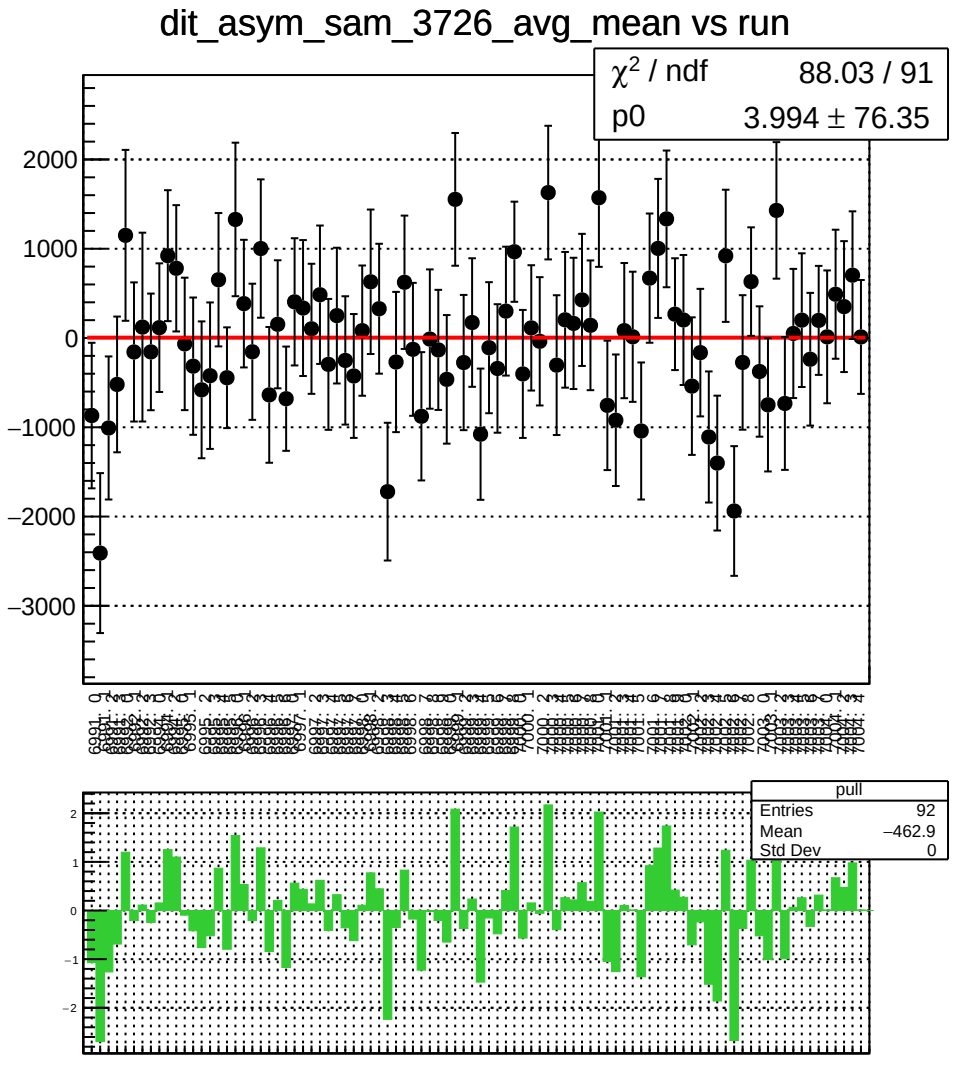

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 88.3 / 91
p0 −19.02 ± 67.77
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 744.1
Std Dev 0
2
1
0
−1
−2
−3

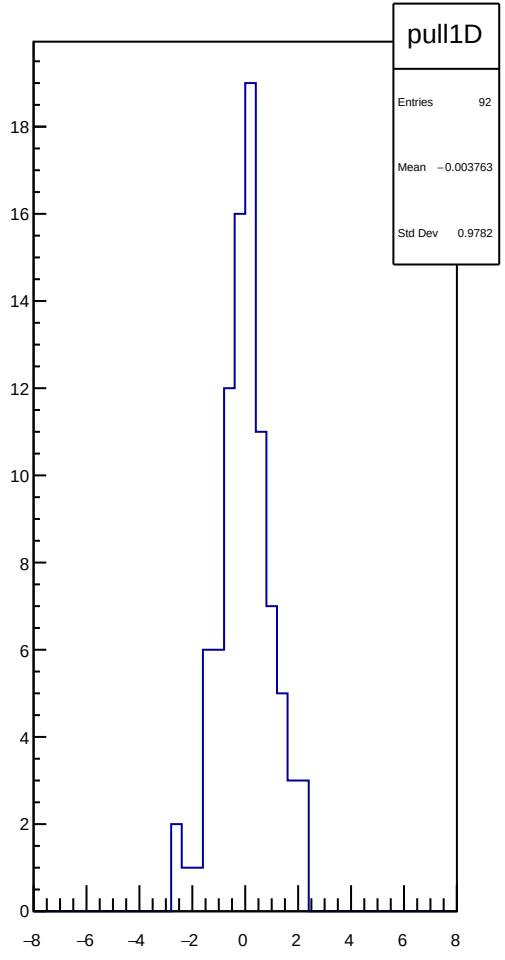

pull1D
Entries 92
Mean 0.003001
Std Dev 0.9797
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

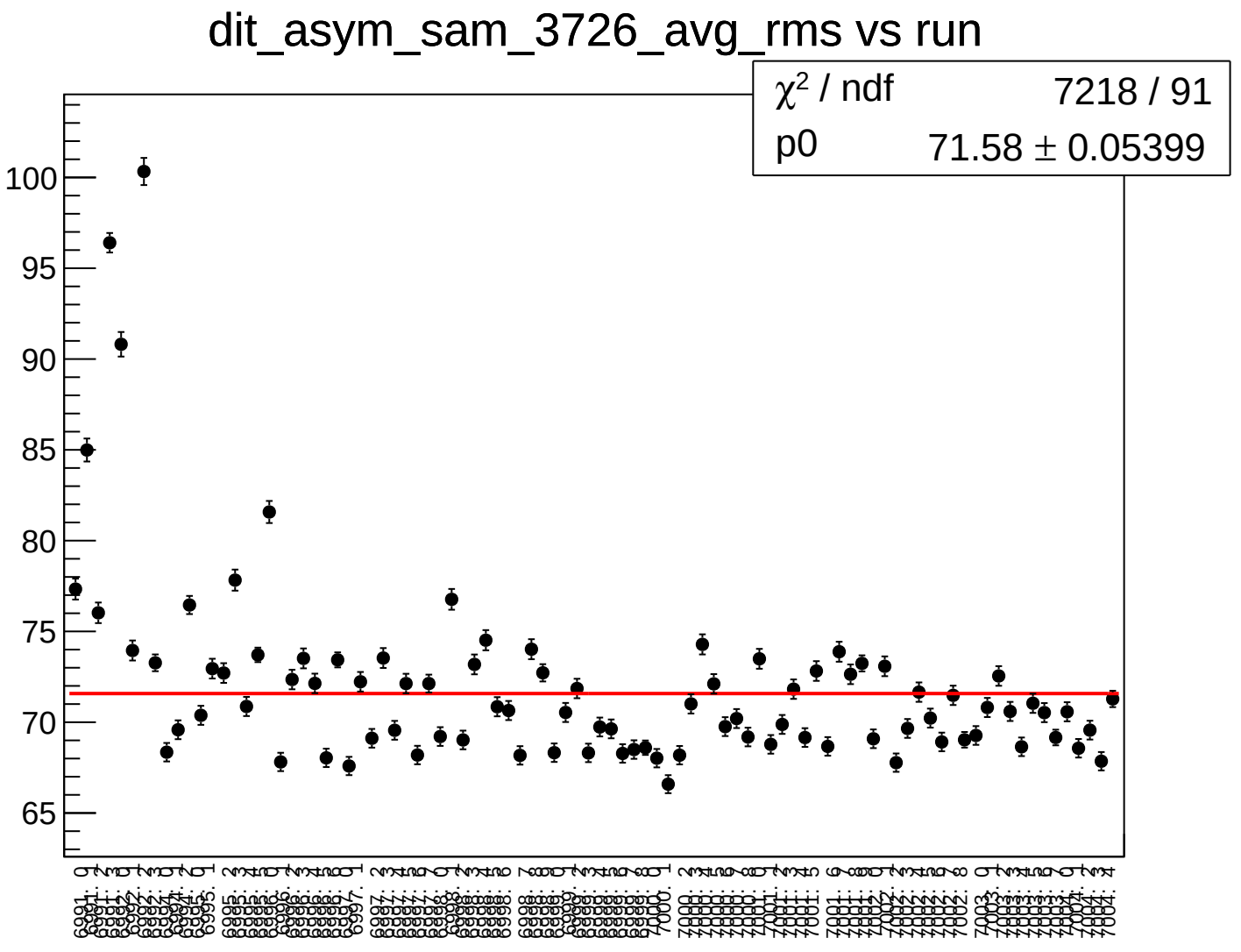

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.053e+04 / 91
p0 63.48 ± 0.04792
80
75
70
65
60
55

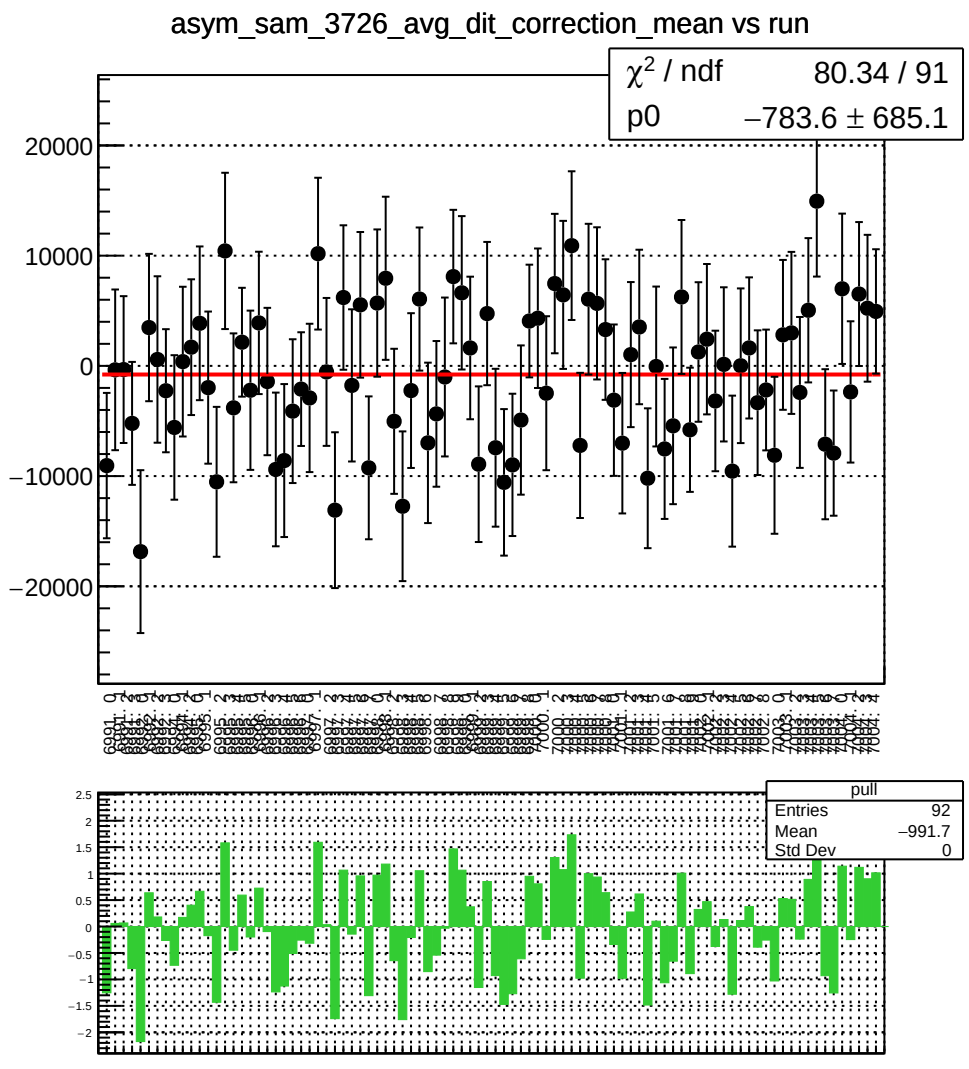

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.78 / 91
p0 −767.5 ± 671.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −572.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.006114
Std Dev 0.9312
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

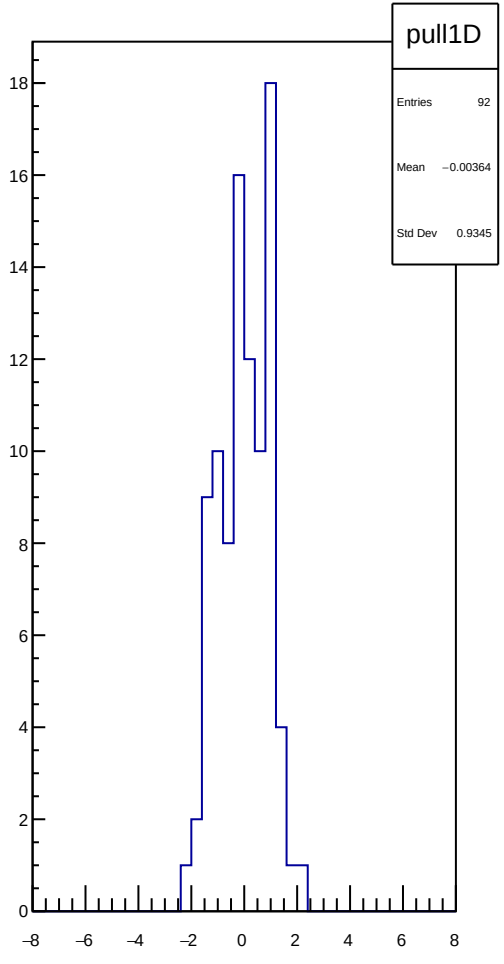

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 6617 / 91
p0 629.3 ± 0.4746
750
700
650
600
550

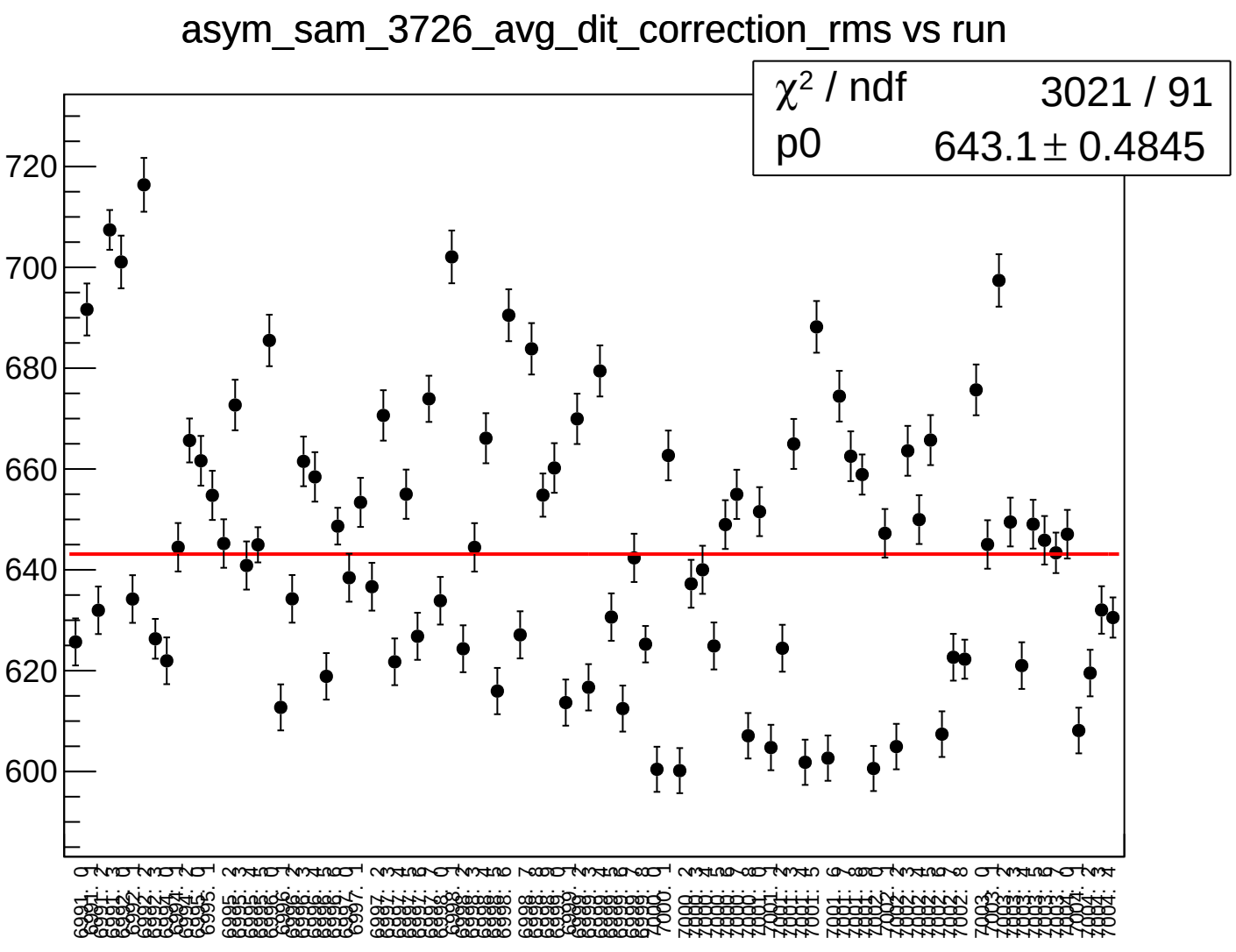

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 88.03 / 91
p0 3.994 ± 76.35
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −462.9
Std Dev 0
2
1
0
−1
−2

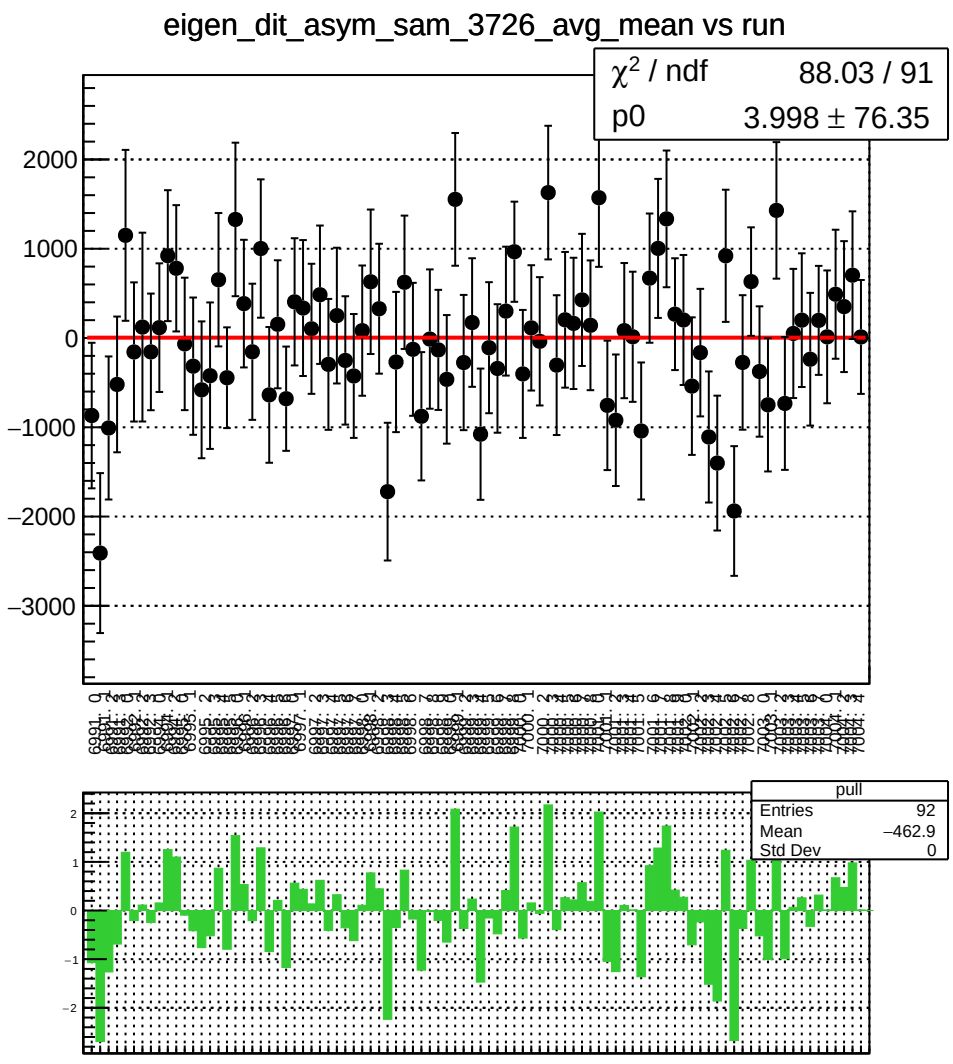

pull1D
Entries 92
Mean −0.003763
Std Dev 0.9782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

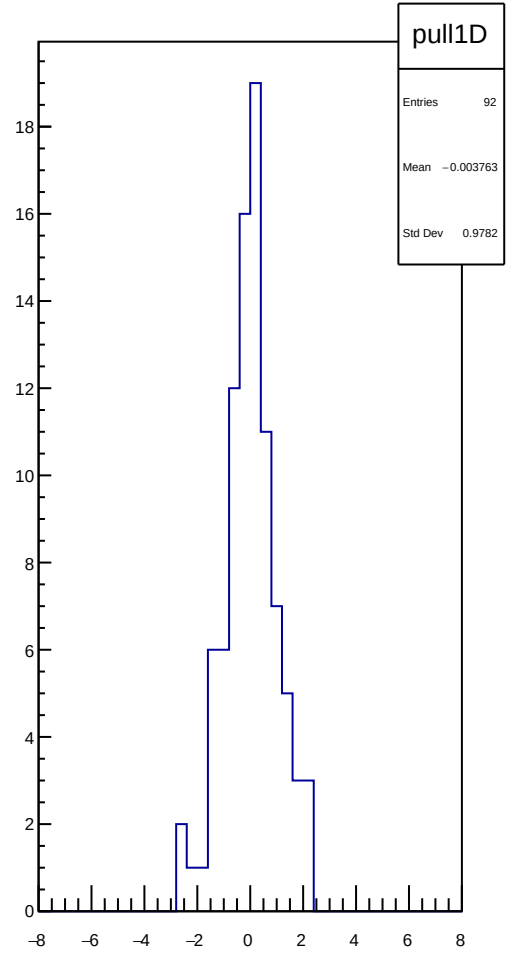

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 7218 / 91
p0 71.58 ± 0.05399
100
95
90
85
80
75
70
65

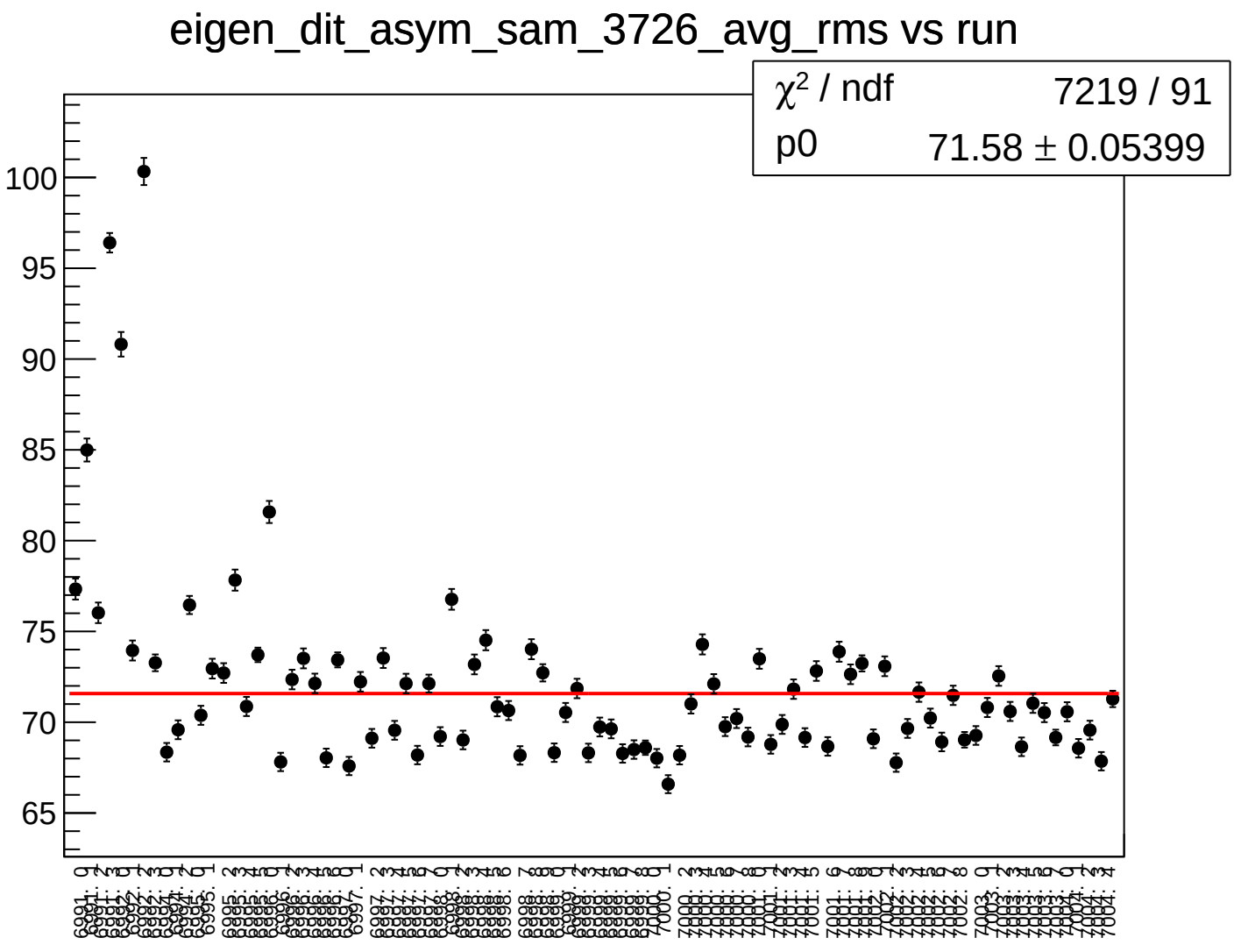

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 80.34 / 91
p0 −783.6 ± 685.1
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −991.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

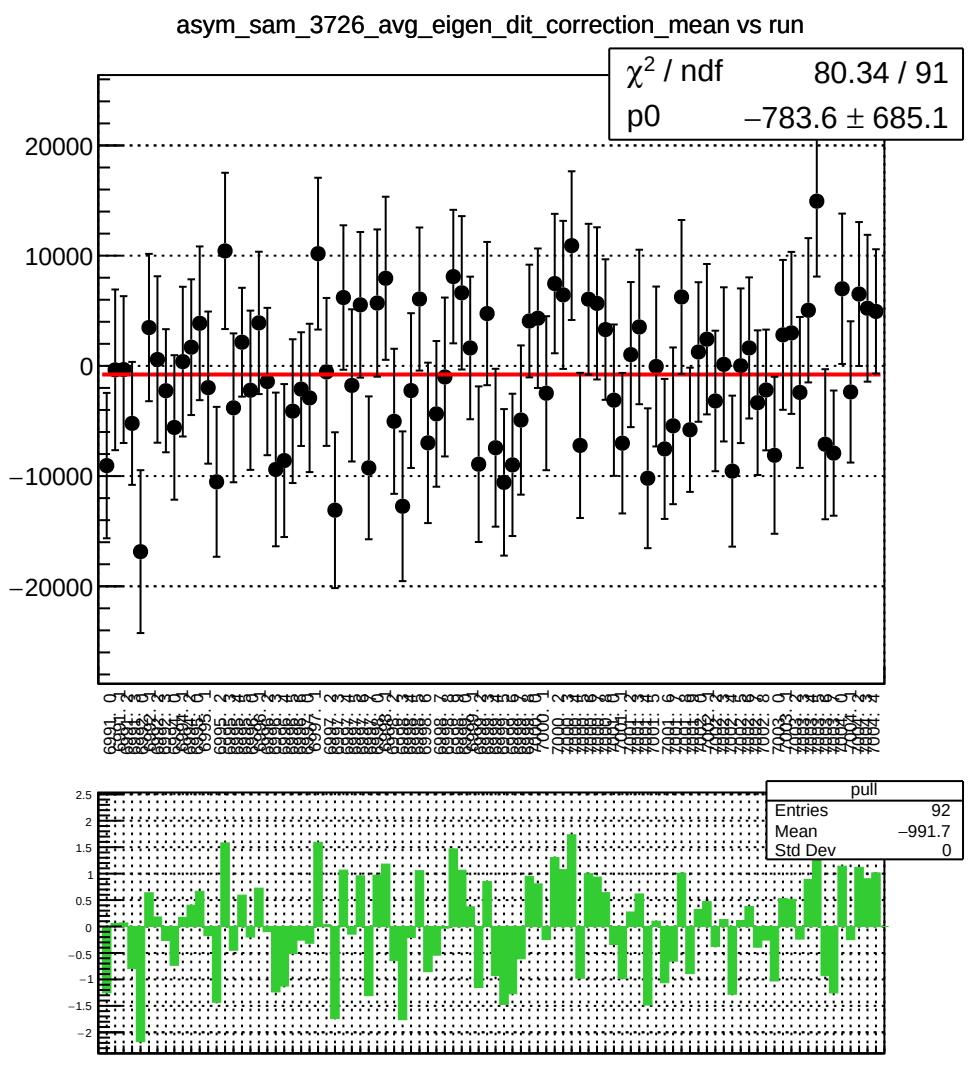

pull1D
Entries 92
Mean −0.00364
Std Dev 0.9345
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

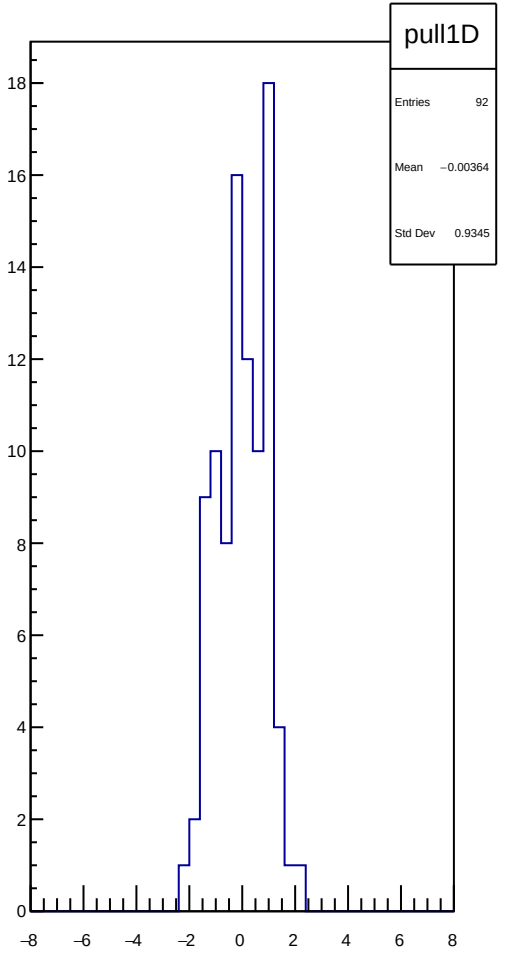

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3021 / 91
p0 643.1 ± 0.4845
720
700
680
660
640
620
600

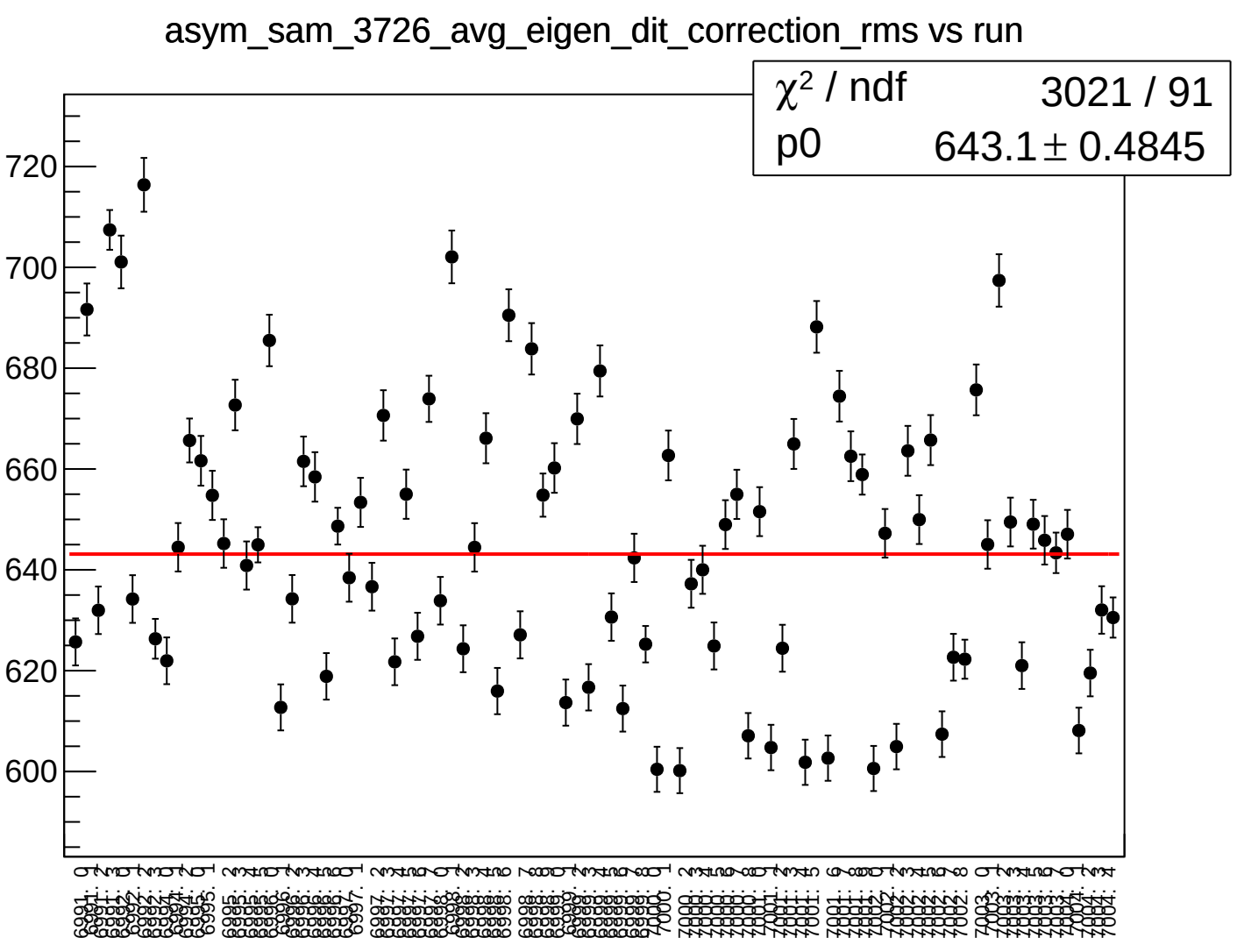

eigen_dit_asym_sam_3726_avg_mean vs run
χ^2 / ndf 88.03 / 91
p0 3.998 ± 76.35
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −462.9
Std Dev 0
2
1
0
−1
−2

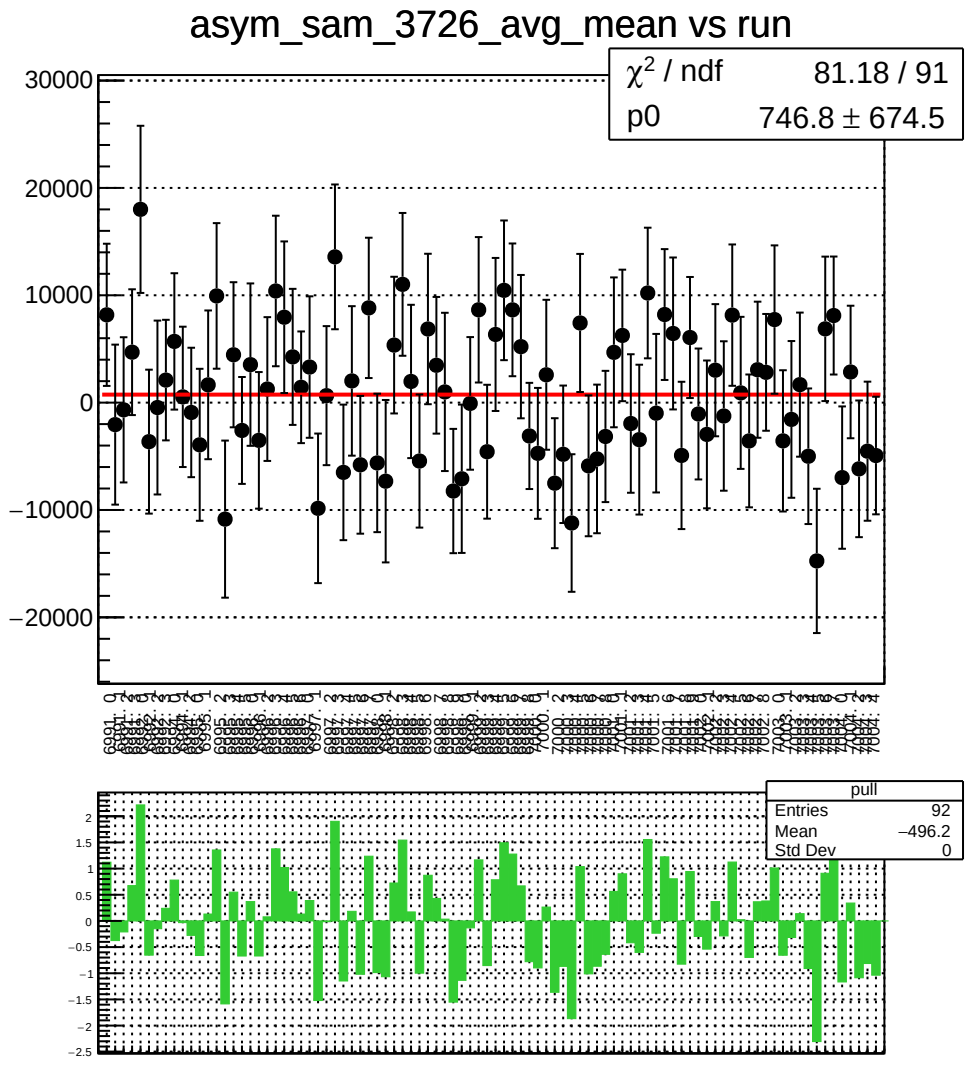

pull1D
Entries 92
Mean −0.003763
Std Dev 0.9782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

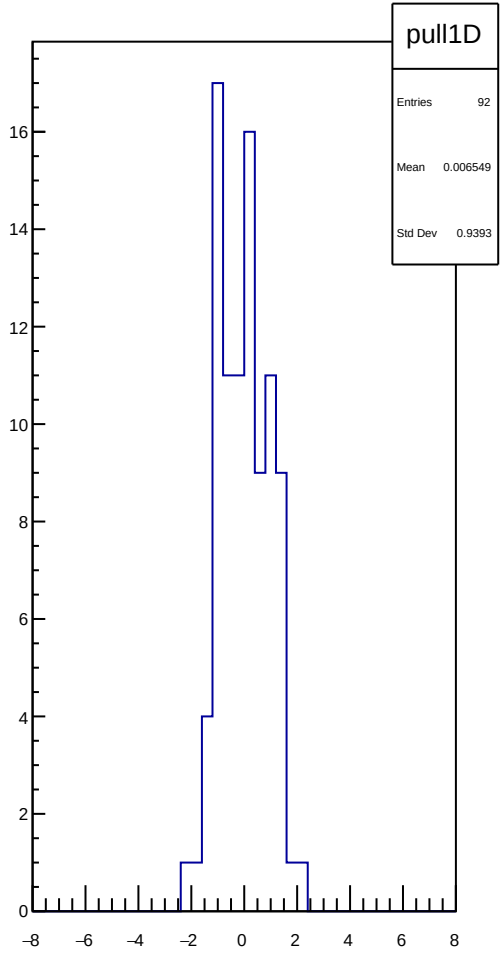

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 7219 / 91
p0 71.58 ± 0.05399
100
95
90
85
80
75
70
65

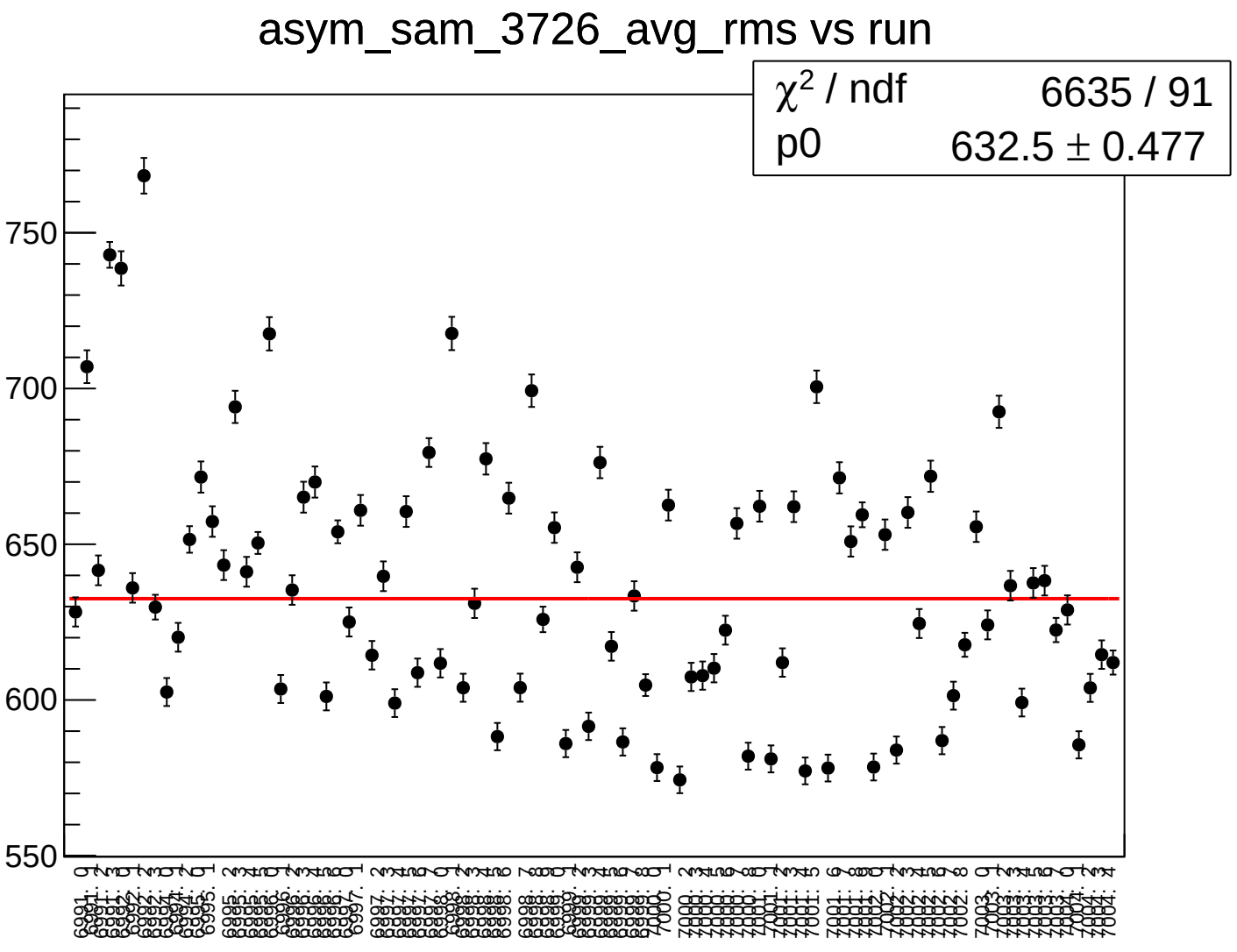

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.34 / 91
p0 −783.6 ± 685.1
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −991.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

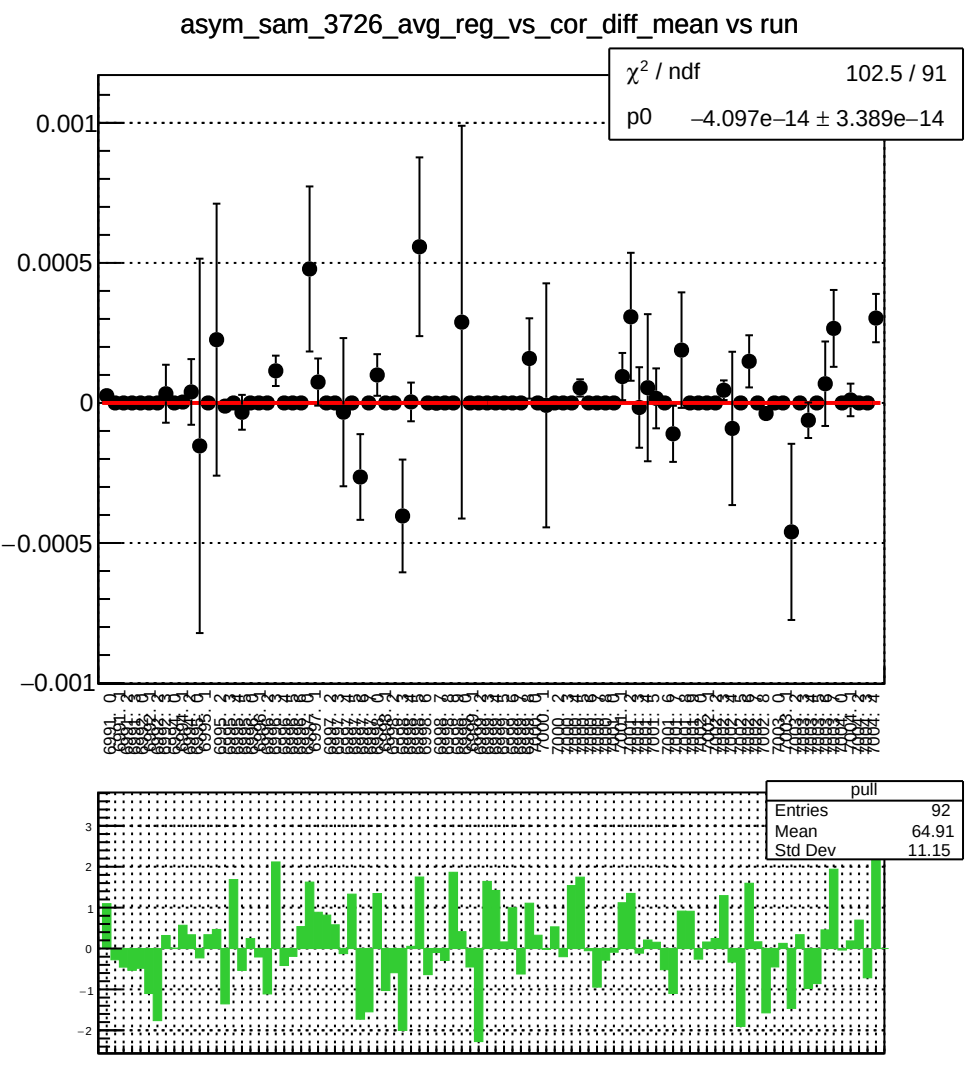

pull1D
Entries 92
Mean −0.00364
Std Dev 0.9345
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

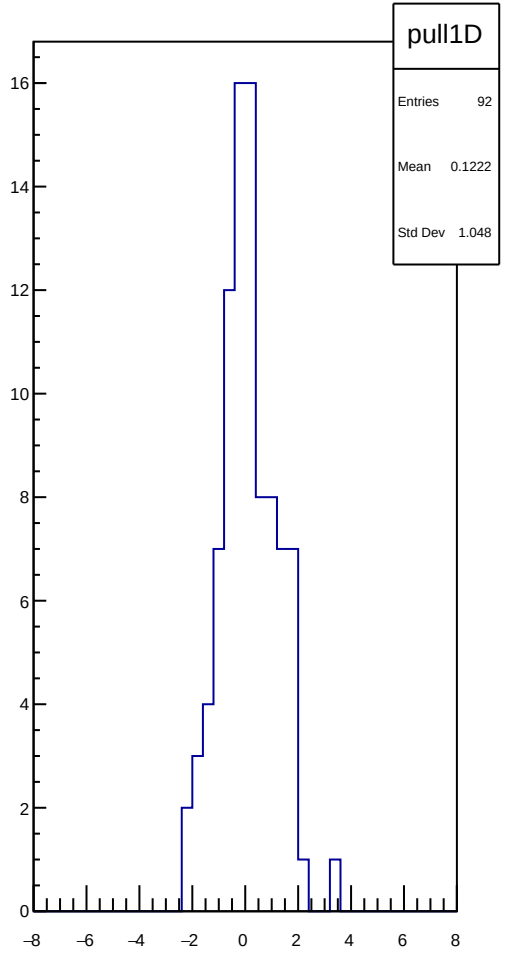

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3021 / 91
p0 643.1 ± 0.4845
720
700
680
660
640
620
600

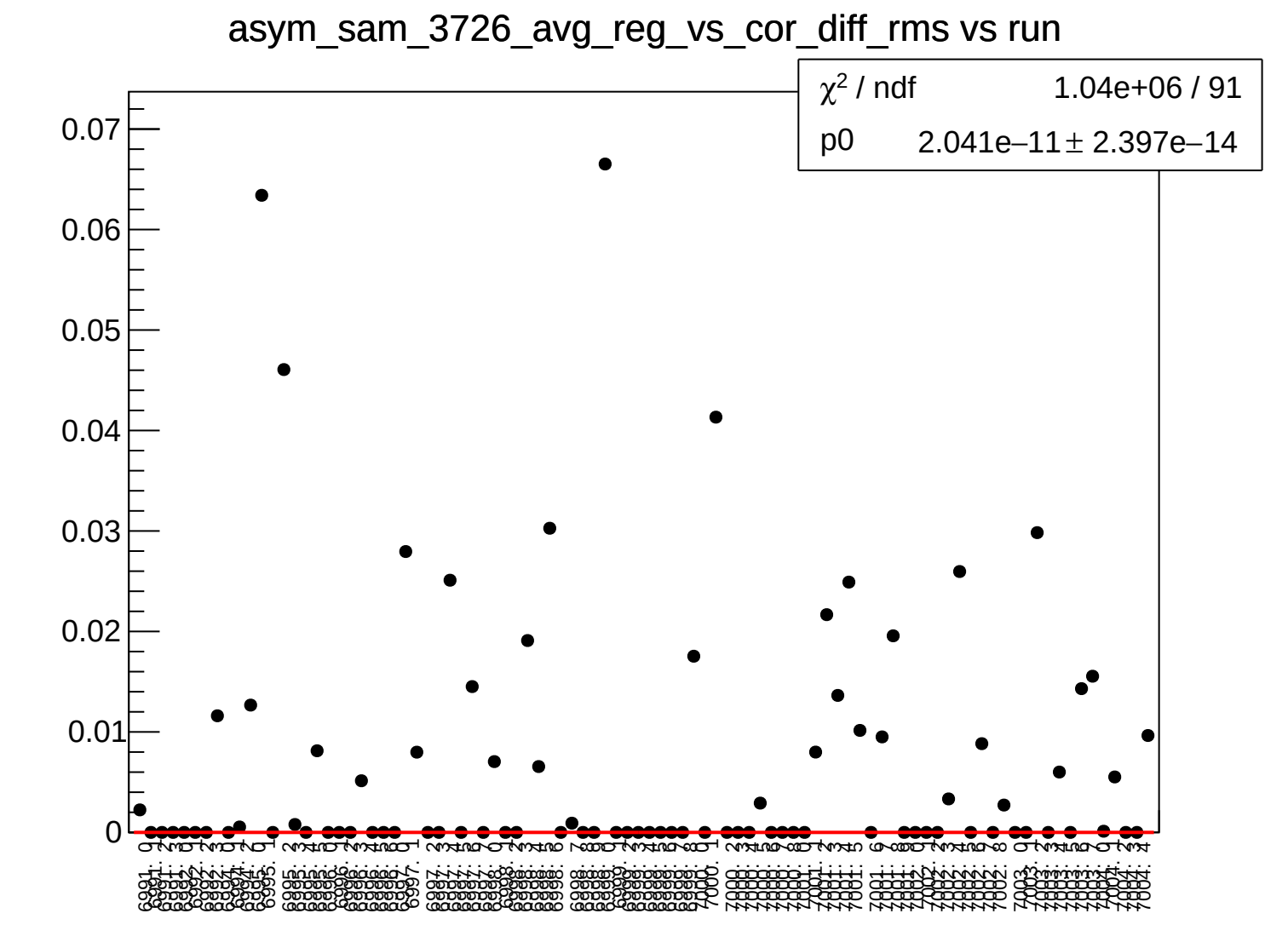

asym_sam_3726_avg_mean vs run
χ² / ndf 81.18 / 91
p0 746.8 ± 674.5
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −496.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

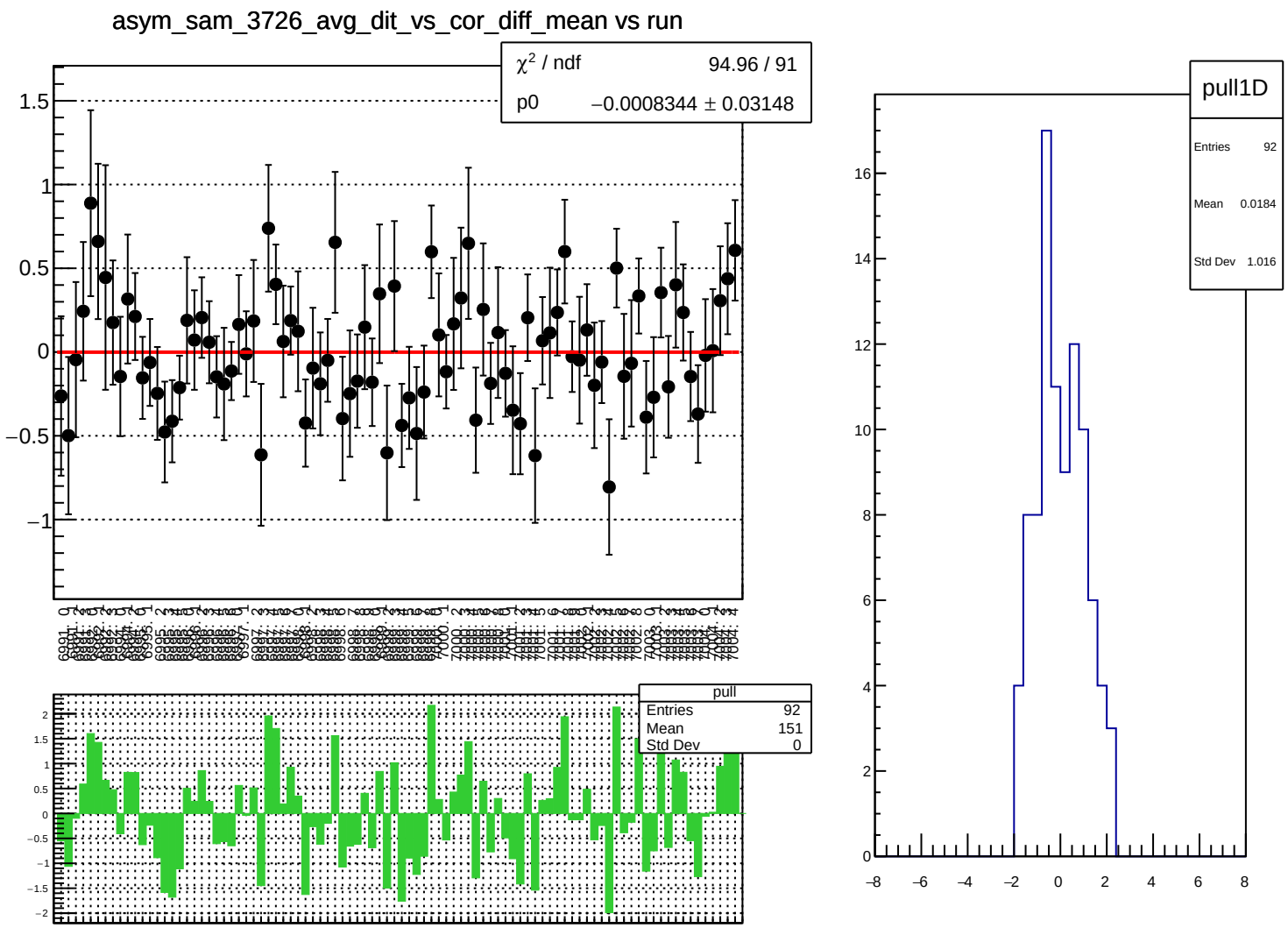

pull1D
Entries 92
Mean 0.006549
Std Dev 0.9393
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

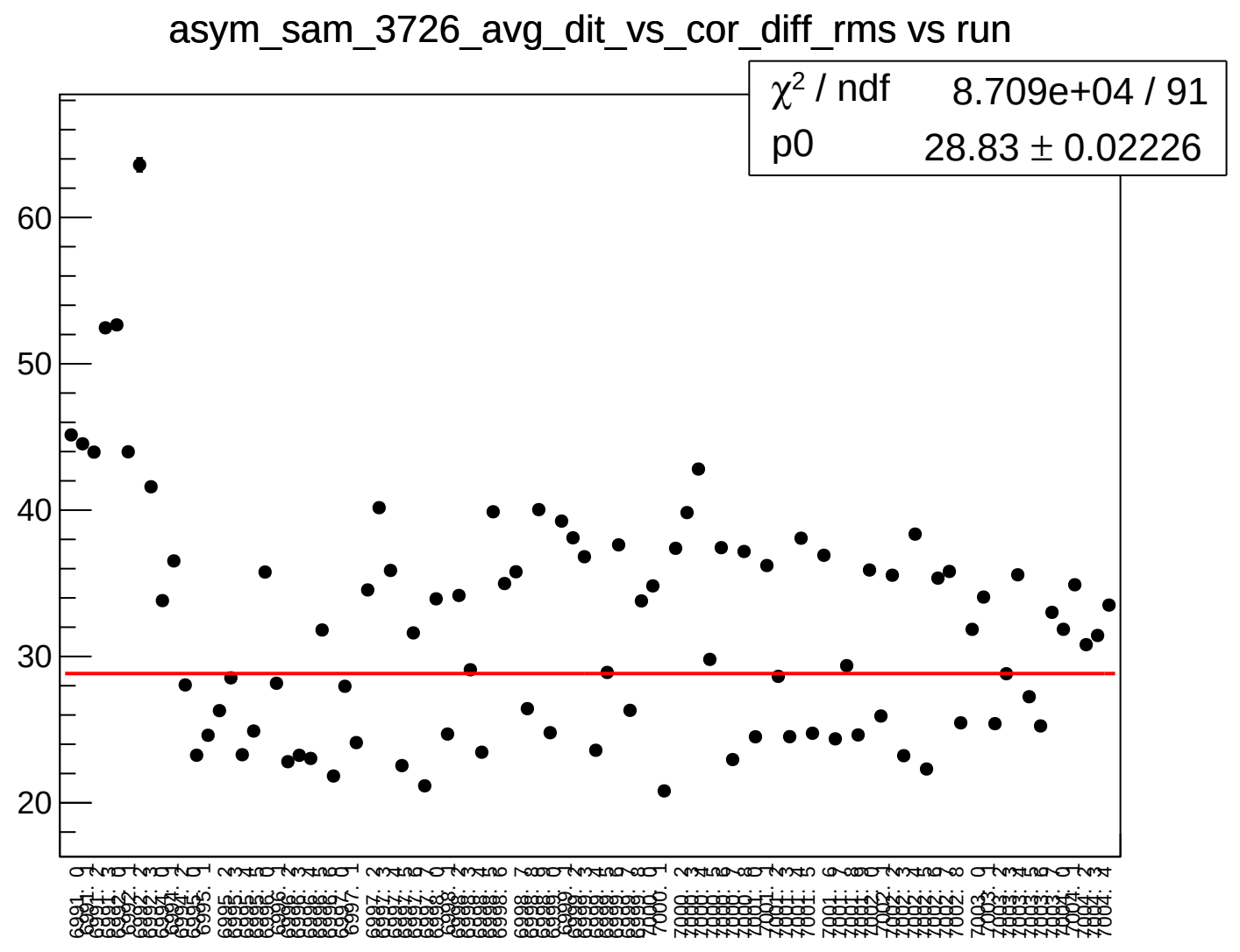

asym_sam_3726_avg_rms vs run
χ² / ndf 6635 / 91
p0 632.5 ± 0.477
750
700
650
600
550

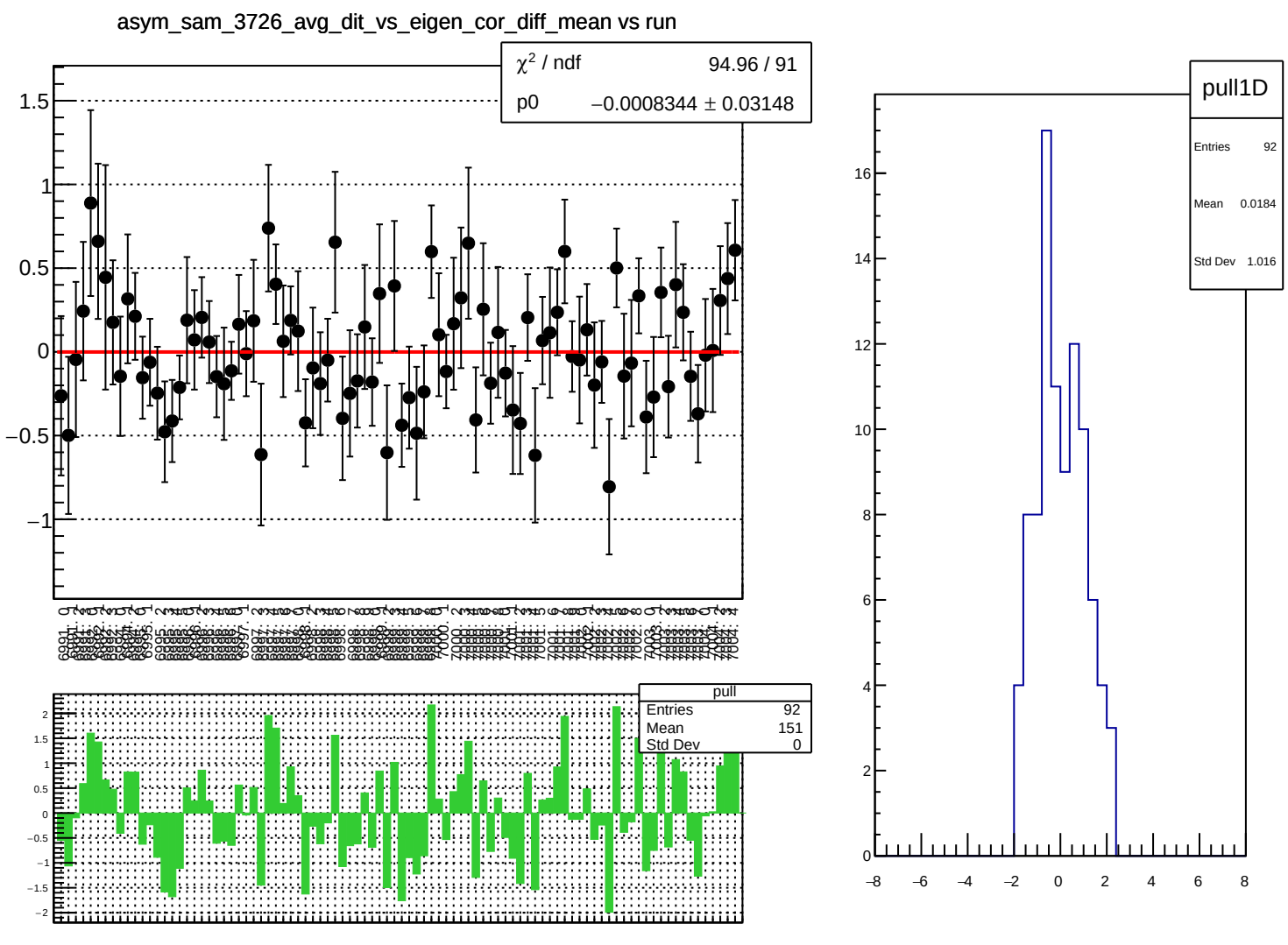

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 91
p0 −4.097e−14 ± 3.389e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 64.91
Std Dev 11.15
3
2
1
0
−1
−2

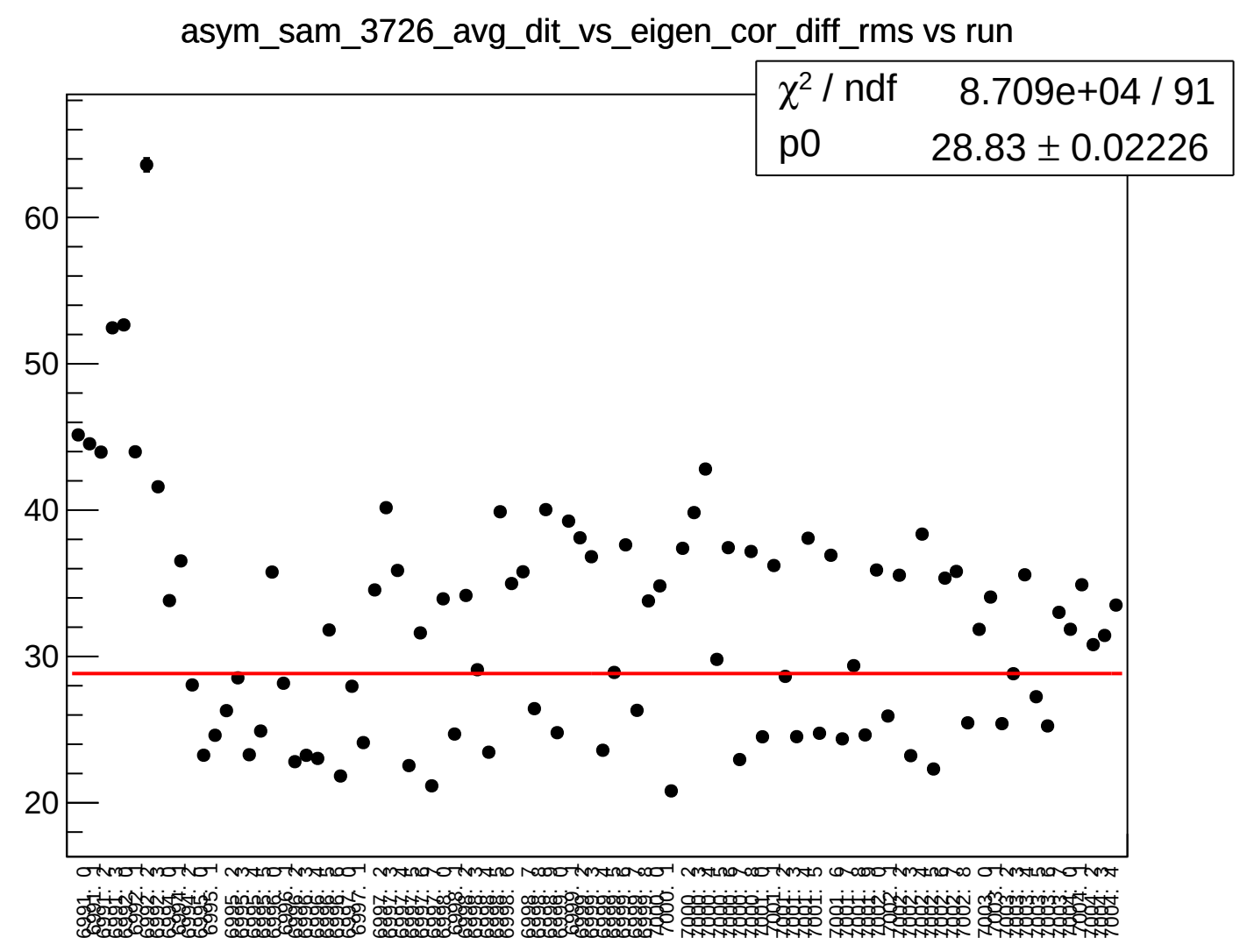

pull1D
Entries 92
Mean 0.1222
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

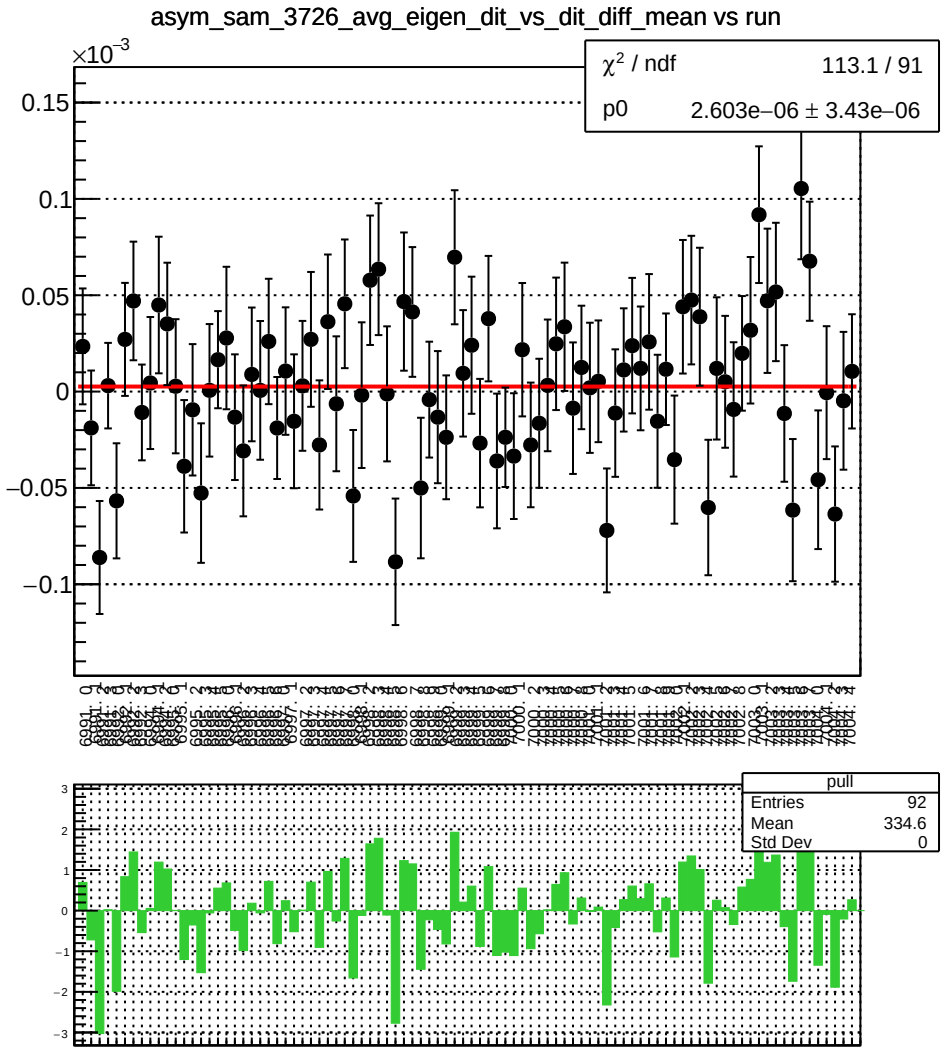

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.04e+06 / 91
p0 2.041e−11 ± 2.397e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

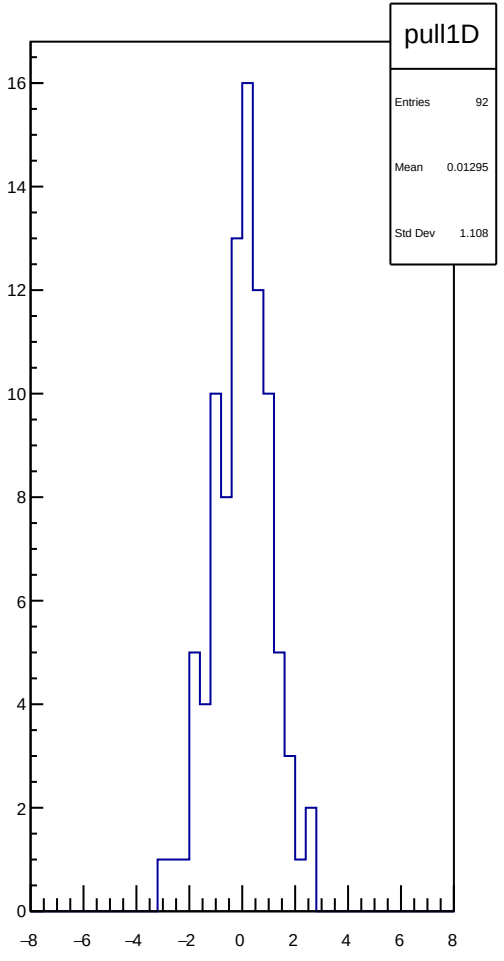

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.96 / 91
p0 −0.0008344 ± 0.03148
pull
Entries 92
Mean 151
Std Dev 0
pull1D
Entries 92
Mean 0.0184
Std Dev 1.016

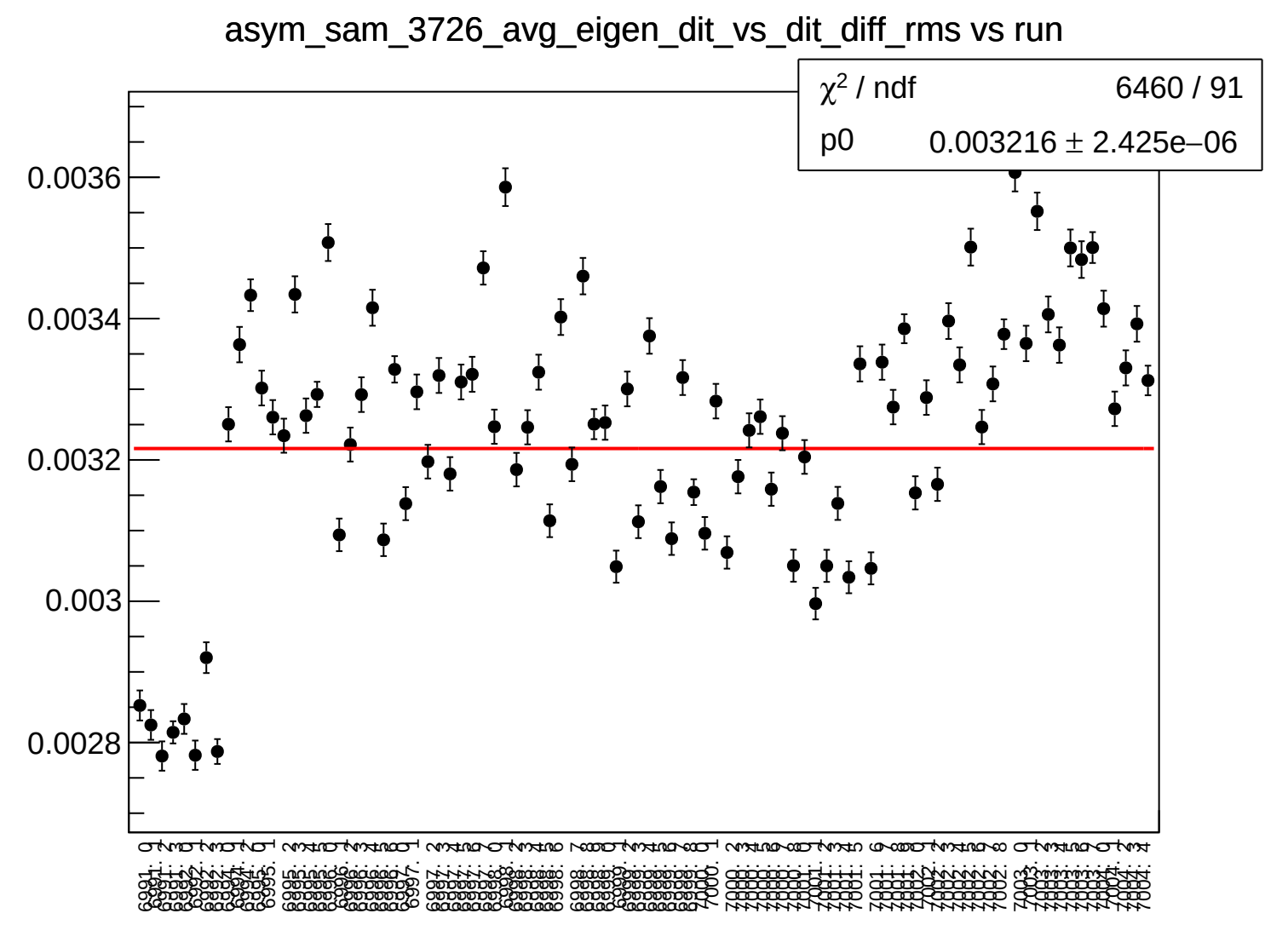

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.709e+04 / 91
p0 28.83 ± 0.02226
60
50
40
30
20

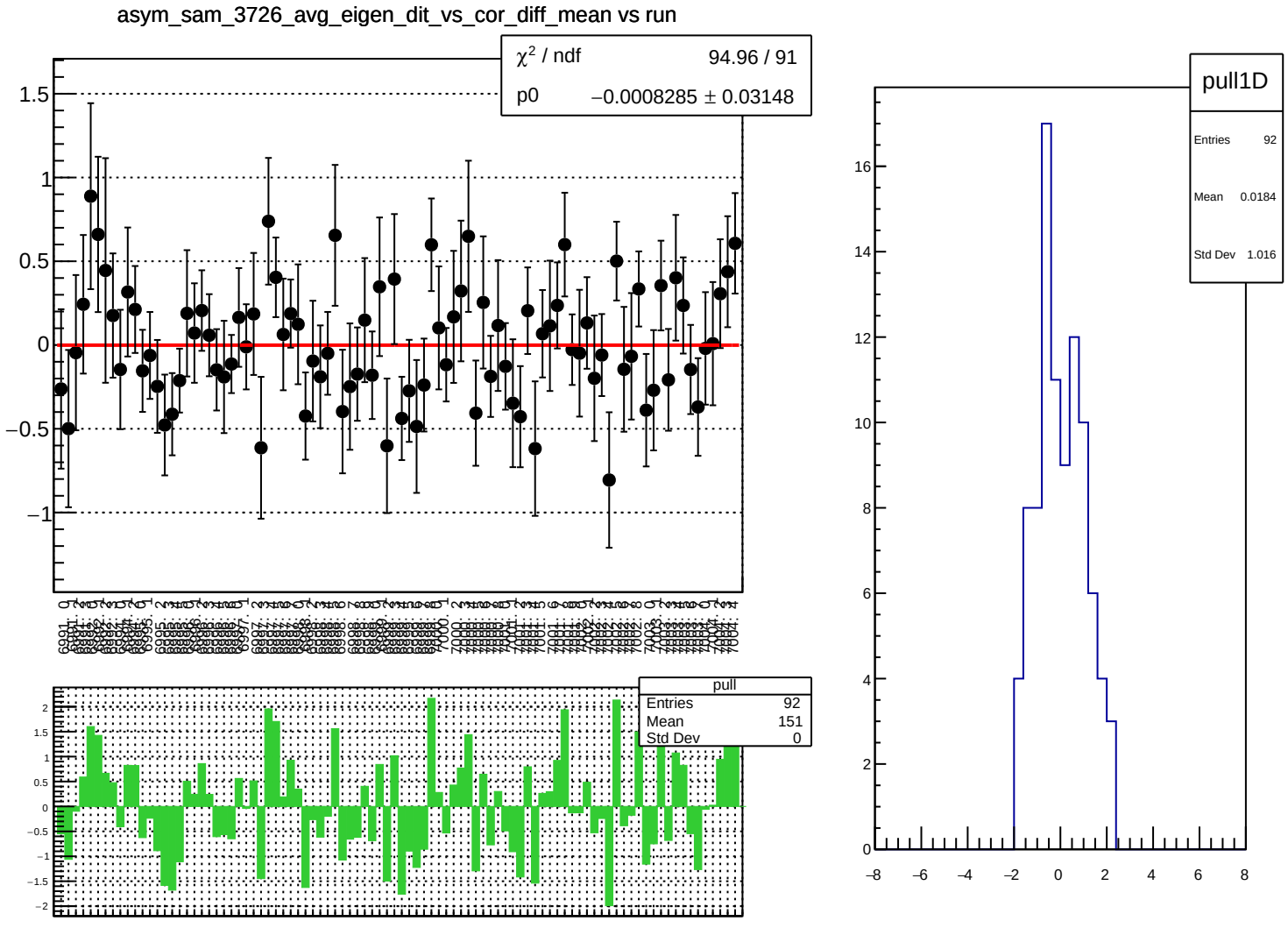

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.96 / 91
p0 −0.0008344 ± 0.03148
pull
Entries 92
Mean 151
Std Dev 0
pull1D
Entries 92
Mean 0.0184
Std Dev 1.016

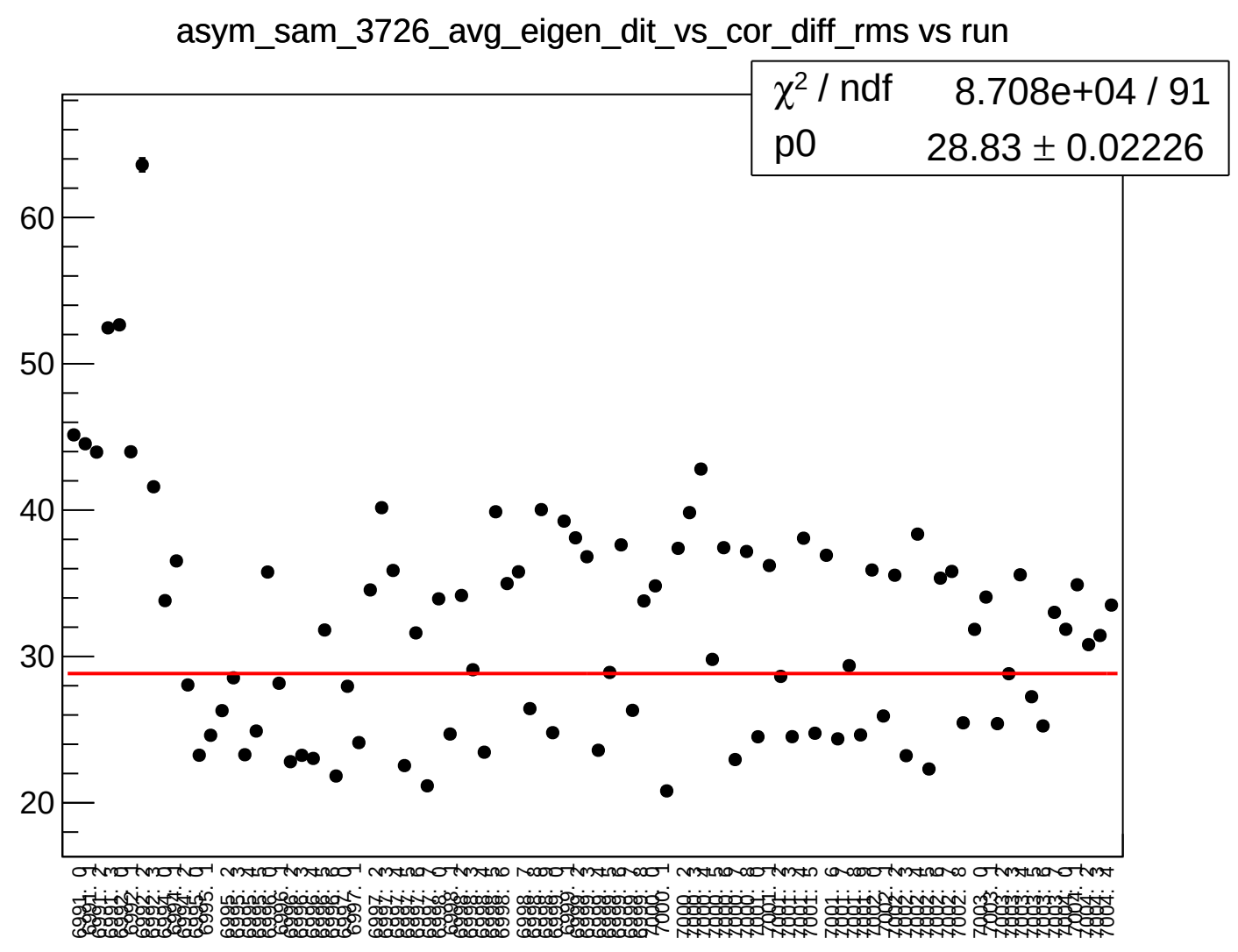

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.709e+04 / 91
p0 28.83 ± 0.02226
60
50
40
30
20

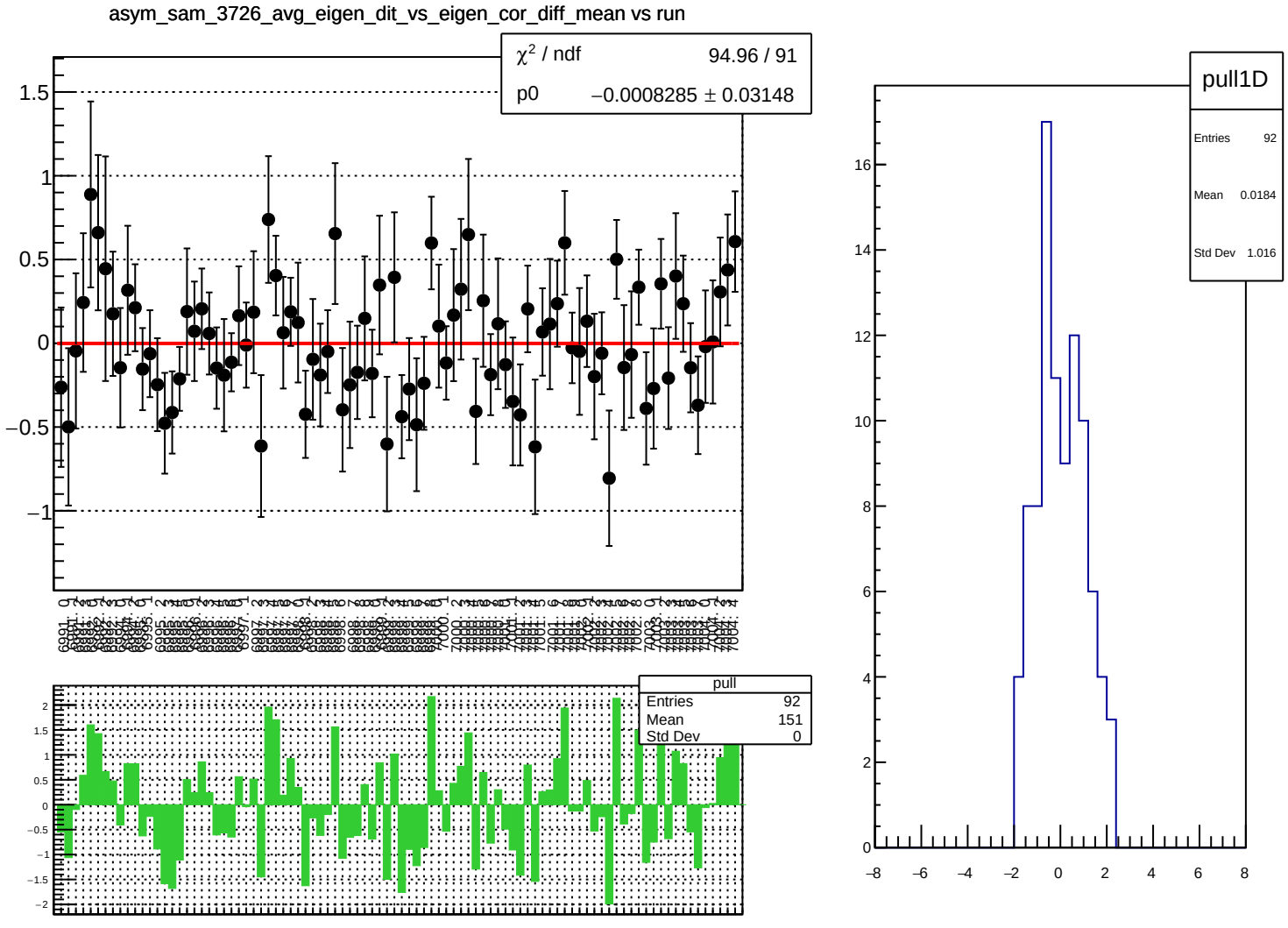

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.1 / 91
p0 2.603e−06 ± 3.43e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 334.6
Std Dev 0
3
2
1
0
−1
−2
−3

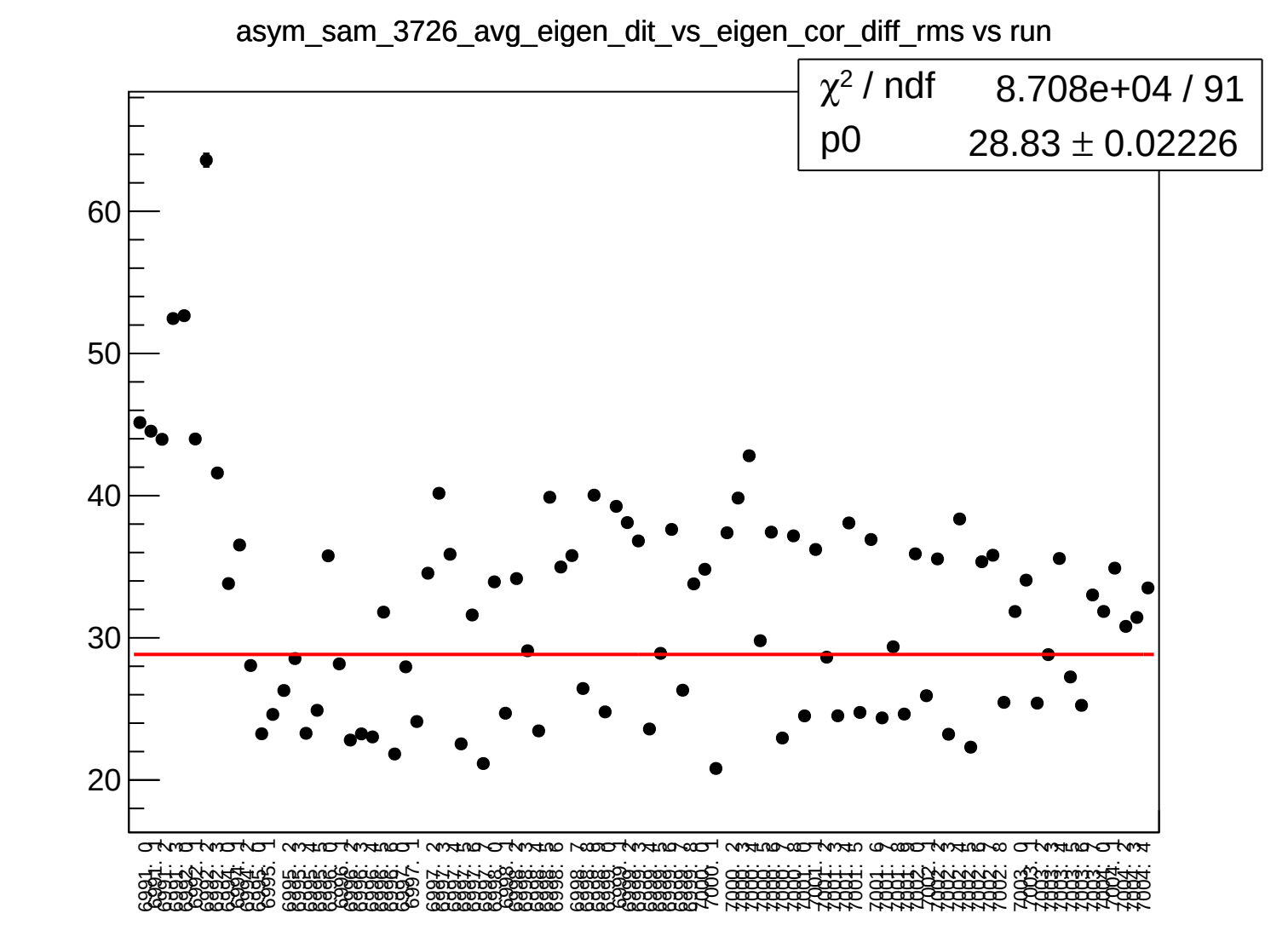

pull1D
Entries 92
Mean 0.01295
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

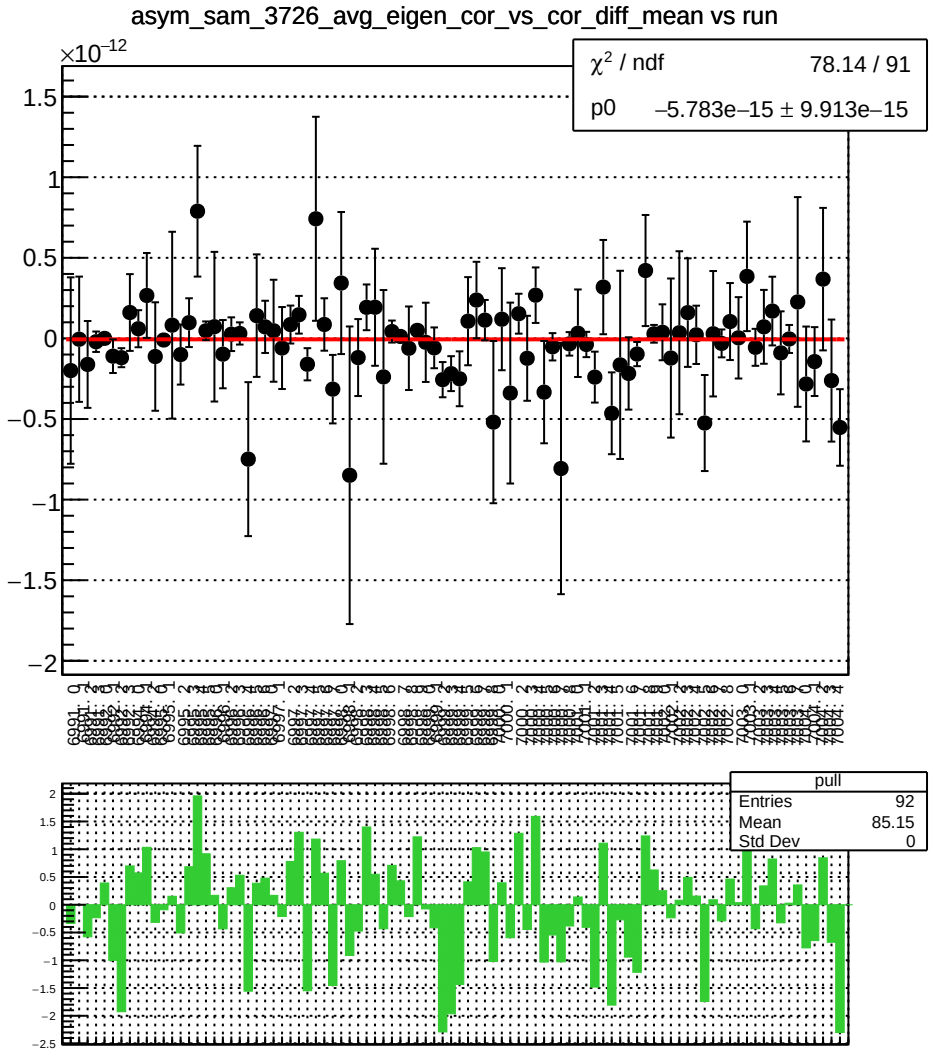

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6460 / 91
p0 0.003216 ± 2.425e−06
0.0036
0.0034
0.0032
0.003
0.0028

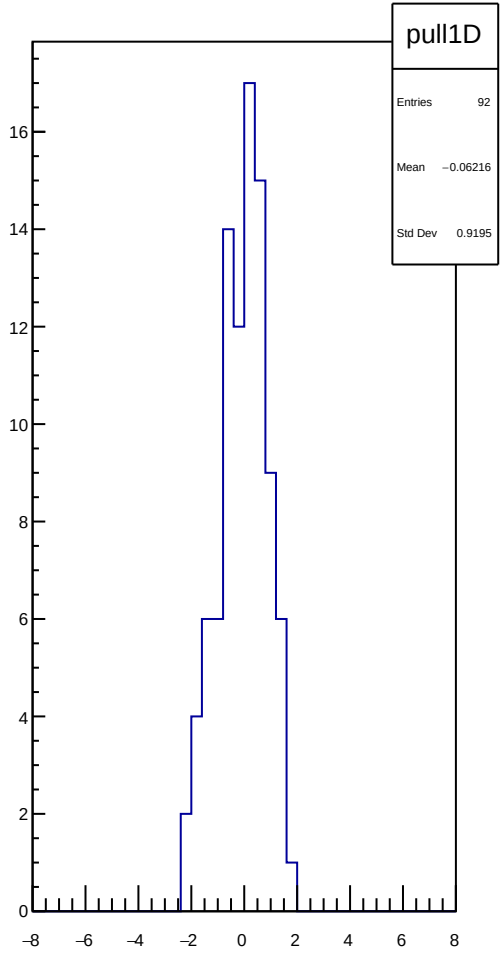

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.96 / 91
p0 −0.0008285 ± 0.03148
pull
Entries 92
Mean 151
Std Dev 0
pull1D
Entries 92
Mean 0.0184
Std Dev 1.016

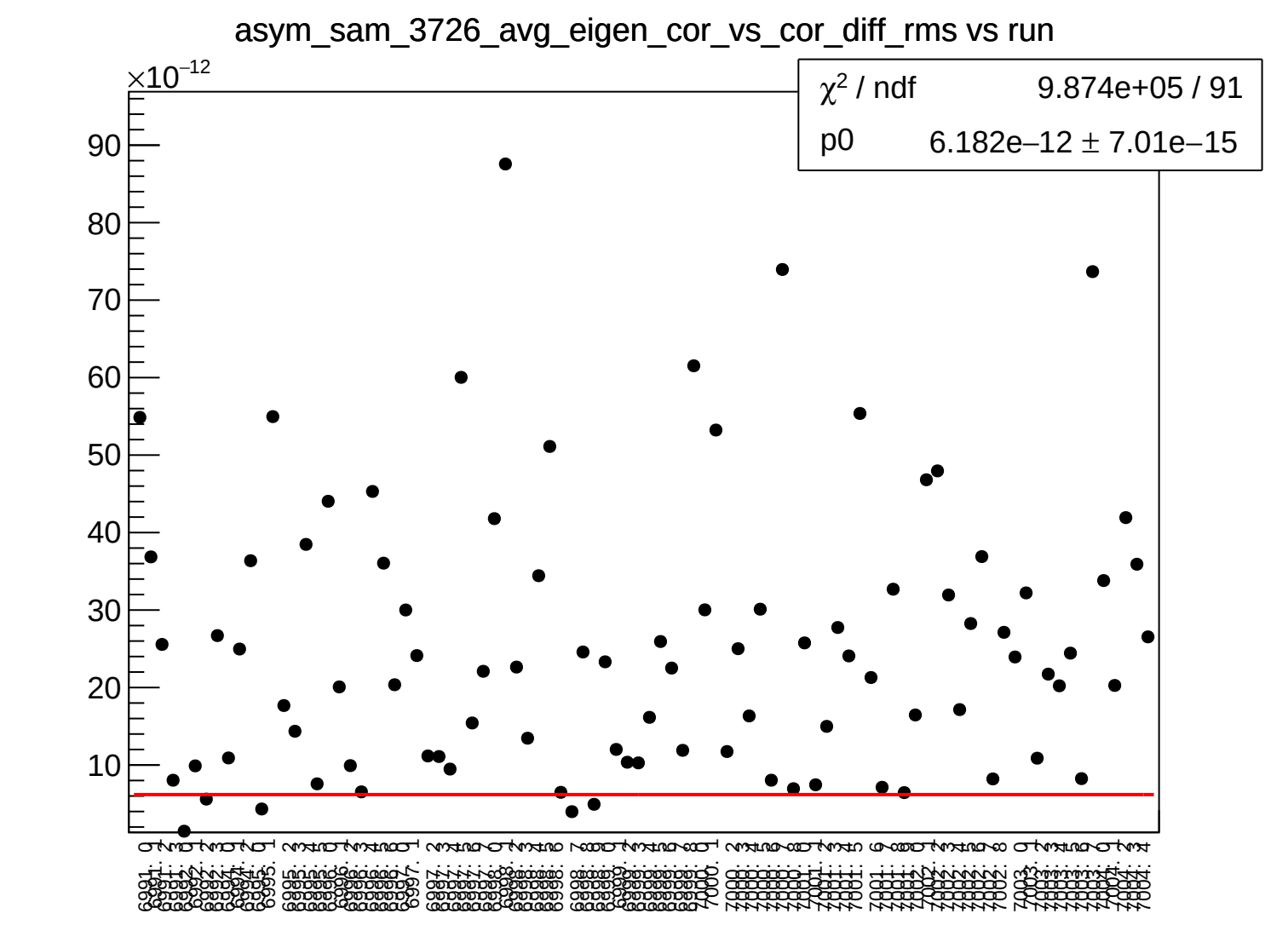

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.708e+04 / 91
p0 28.83 ± 0.02226
60
50
40
30
20

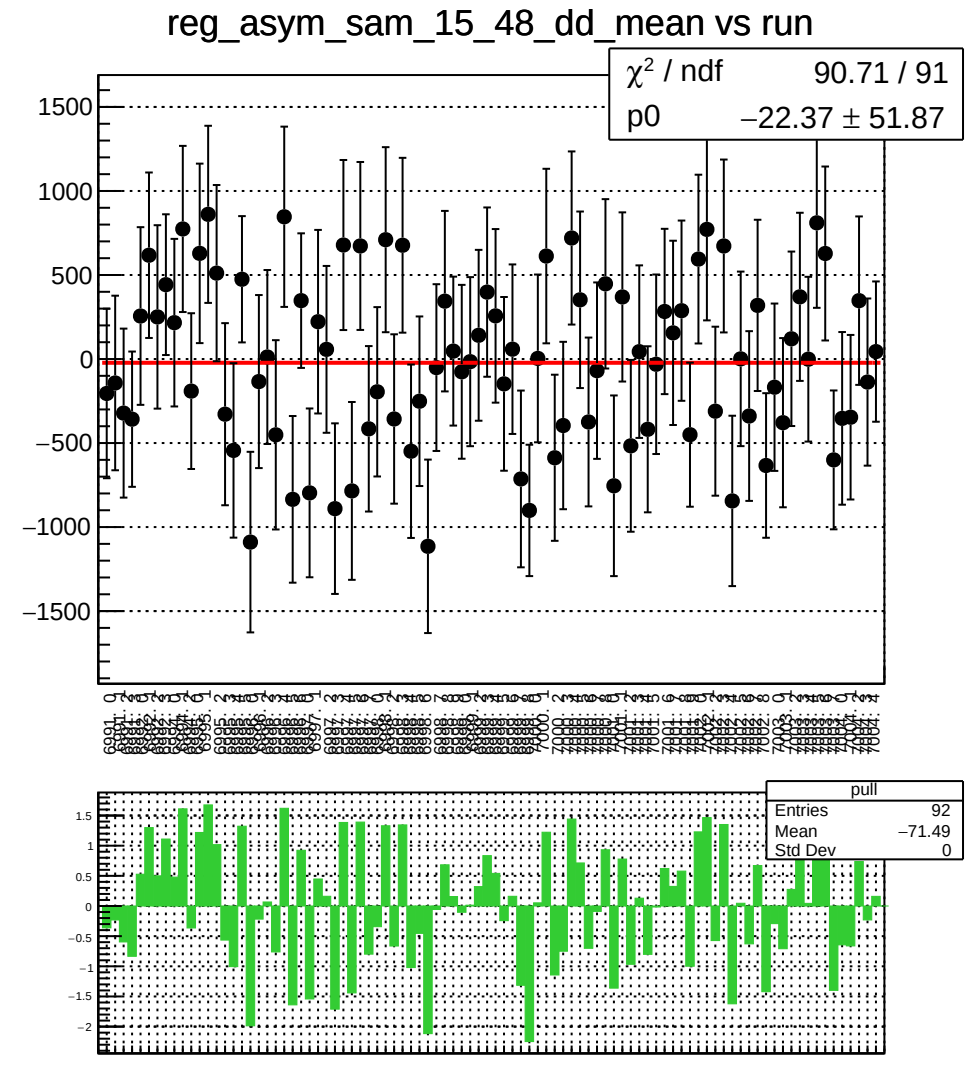

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.96 / 91
p0 −0.0008285 ± 0.03148
pull
Entries 92
Mean 151
Std Dev 0
pull1D
Entries 92
Mean 0.0184
Std Dev 1.016

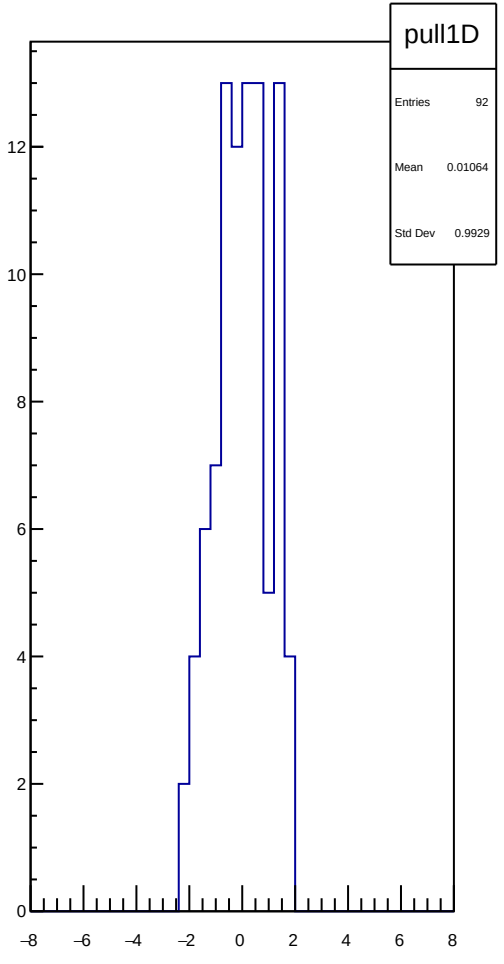

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.708e+04 / 91
p0 28.83 ± 0.02226
60
50
40
30
20

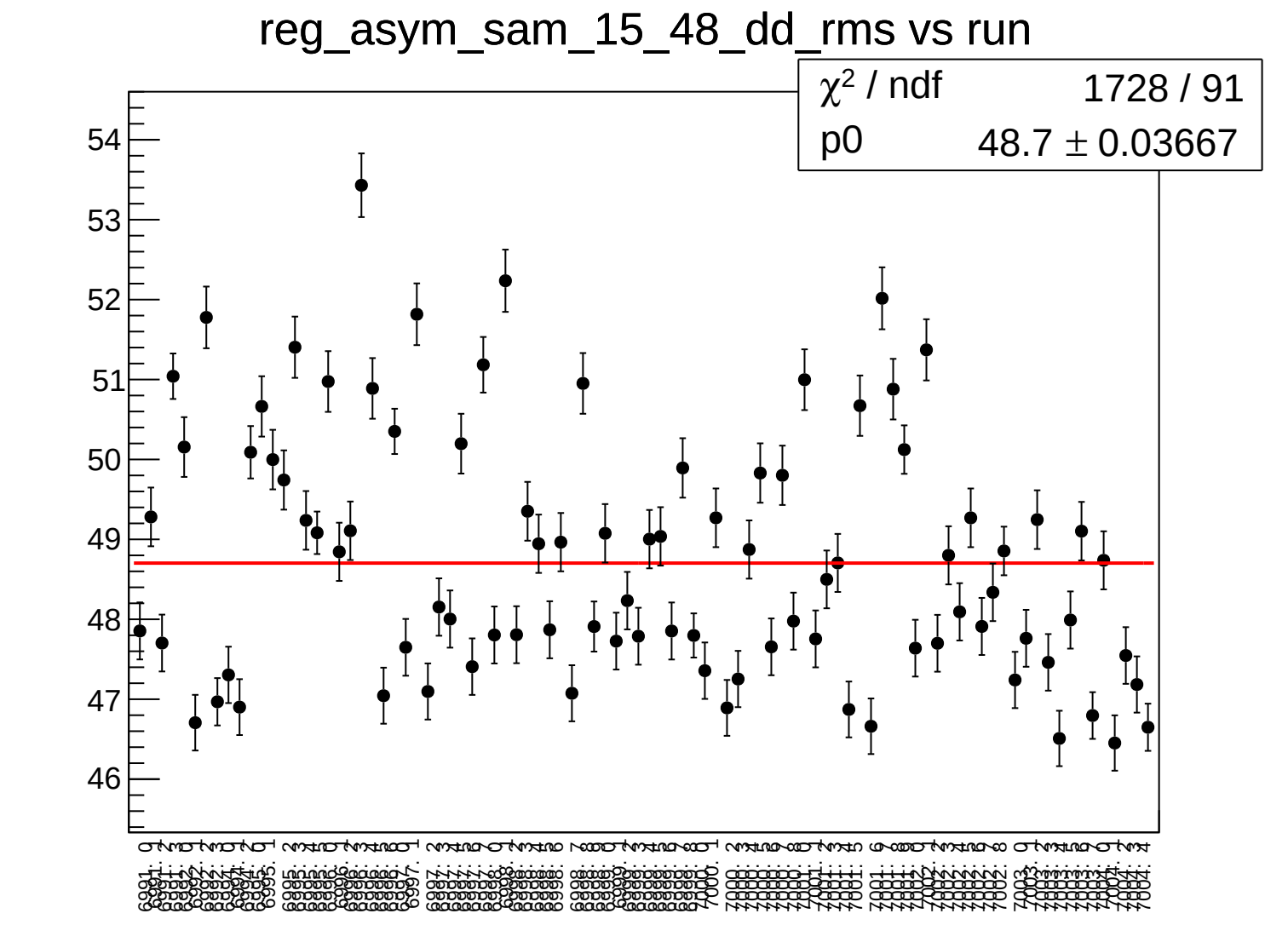

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.14 / 91
p0 −5.783e−15 ± 9.913e−15
pull
Entries 92
Mean 85.15
Std Dev 0

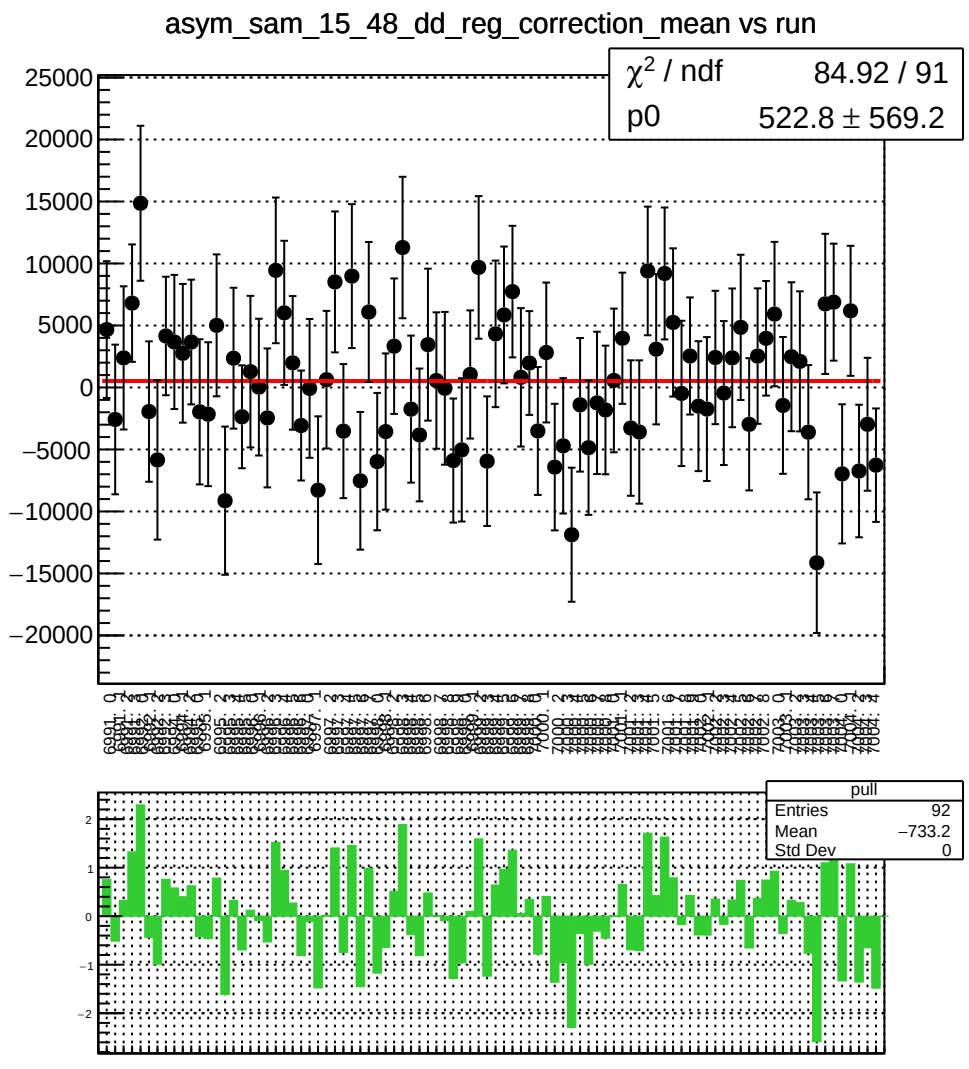

pull1D
Entries 92
Mean −0.06216
Std Dev 0.9195

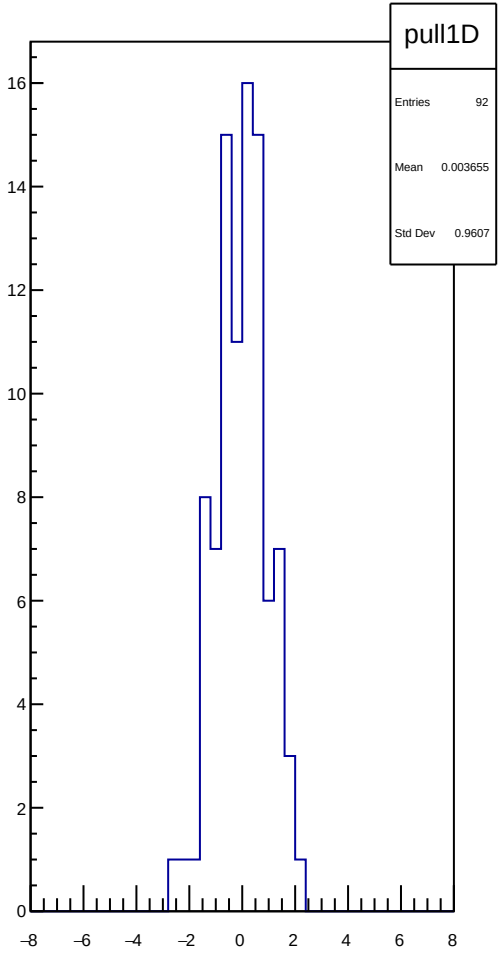

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.874e+05 / 91
p0 6.182e−12 ± 7.01e−15
90
80
70
60
50
40
30
20
10

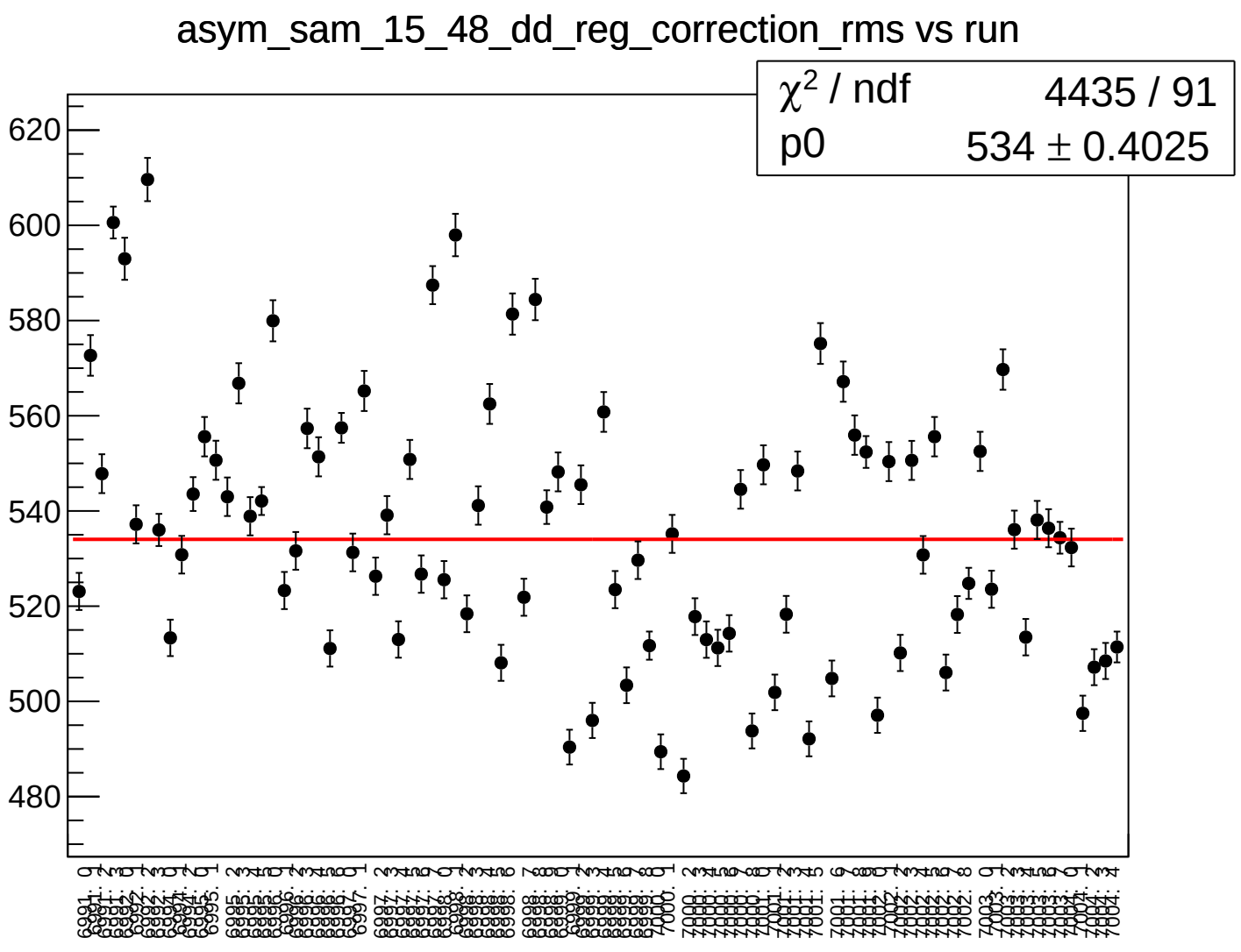

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 90.71 / 91
p0 −22.37 ± 51.87
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −71.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

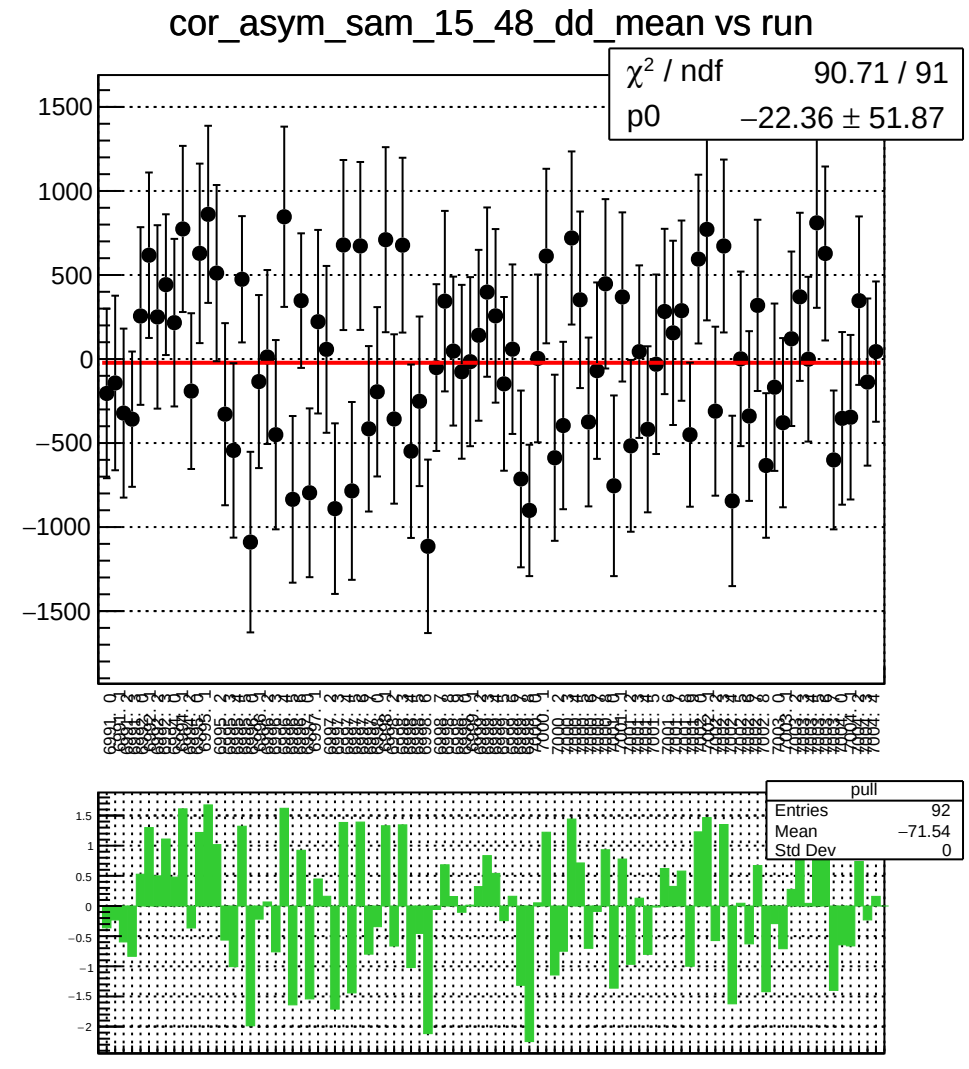

pull1D
Entries 92
Mean 0.01064
Std Dev 0.9929
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

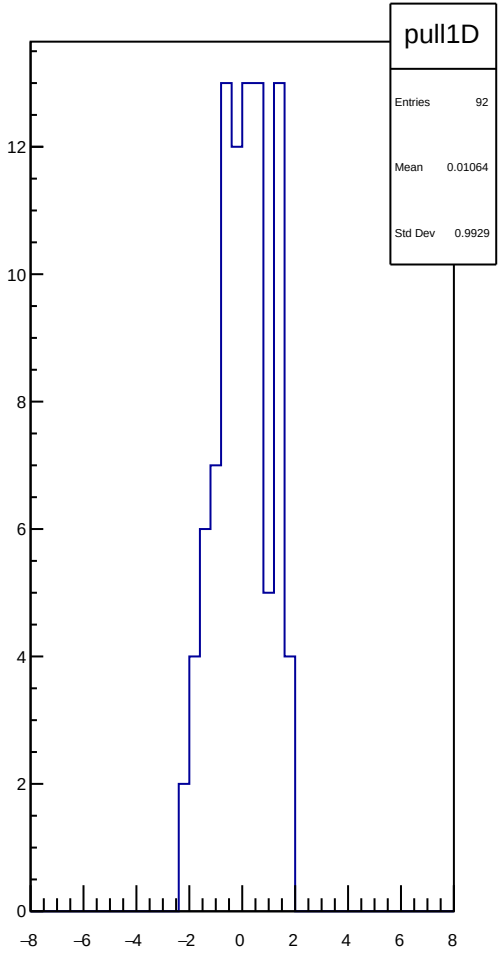

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1728 / 91
p0 48.7 ± 0.03667
54
53
52
51
50
49
48
47
46

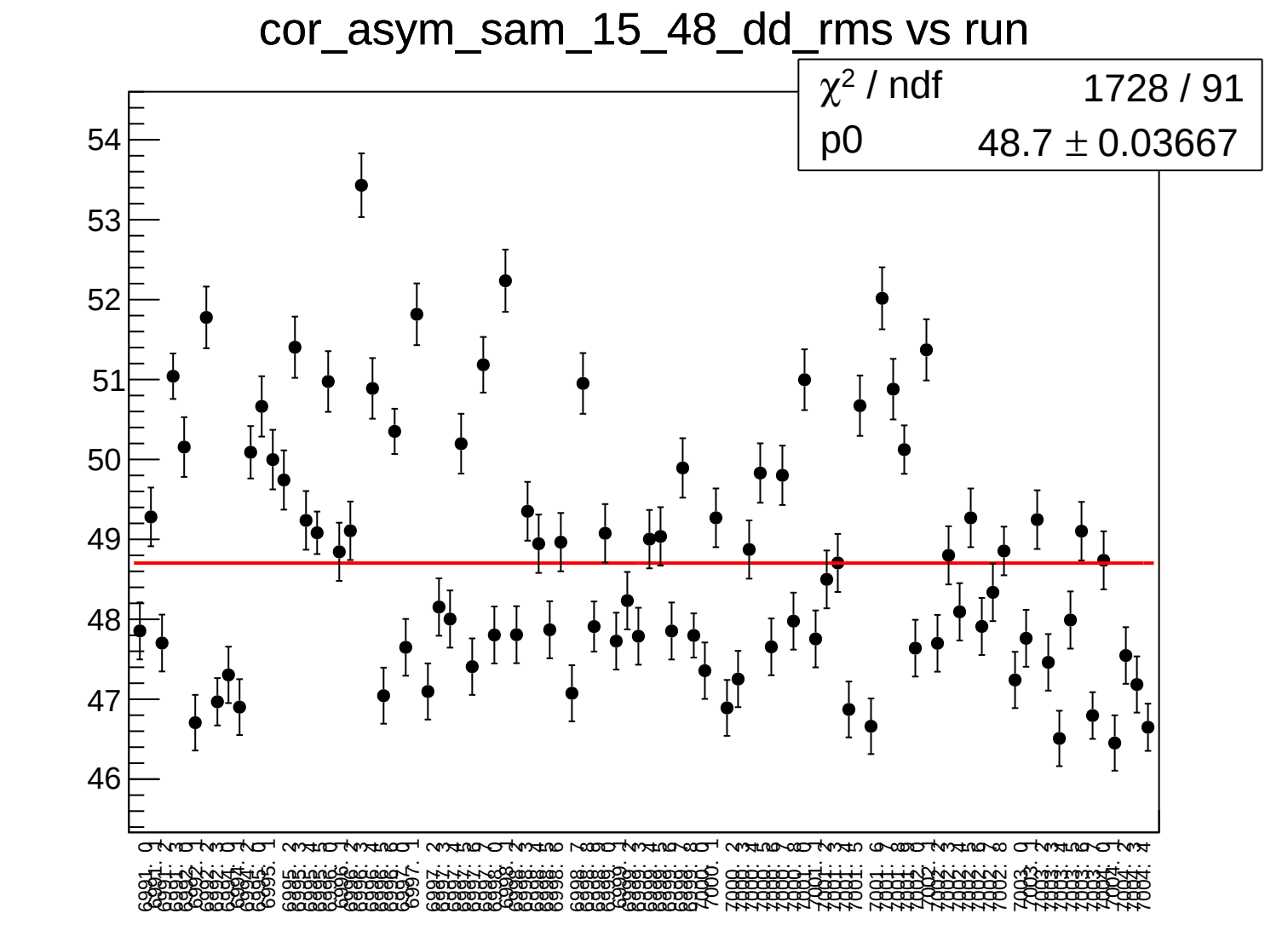

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 84.92 / 91
p0 522.8 ± 569.2
pull
Entries 92
Mean −733.2
Std Dev 0

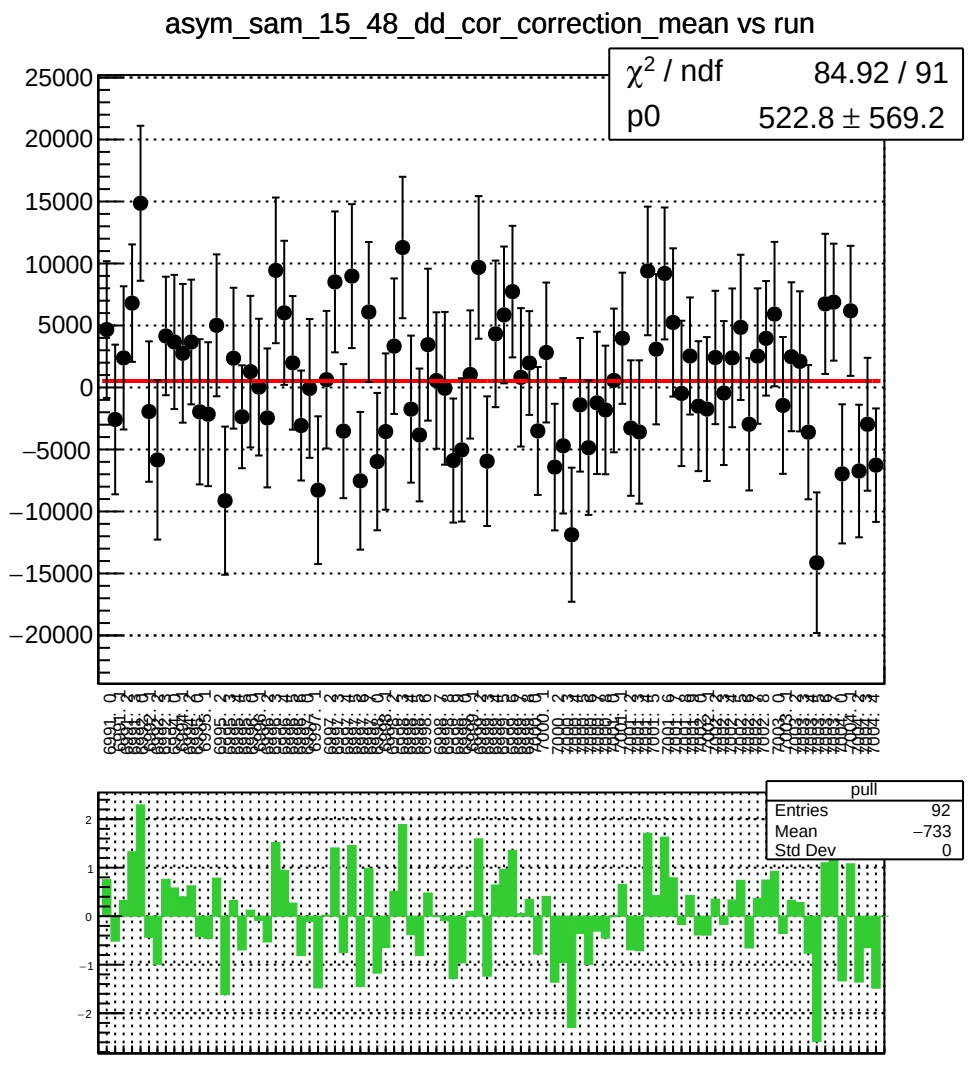

pull1D
Entries 92
Mean 0.003655
Std Dev 0.9607

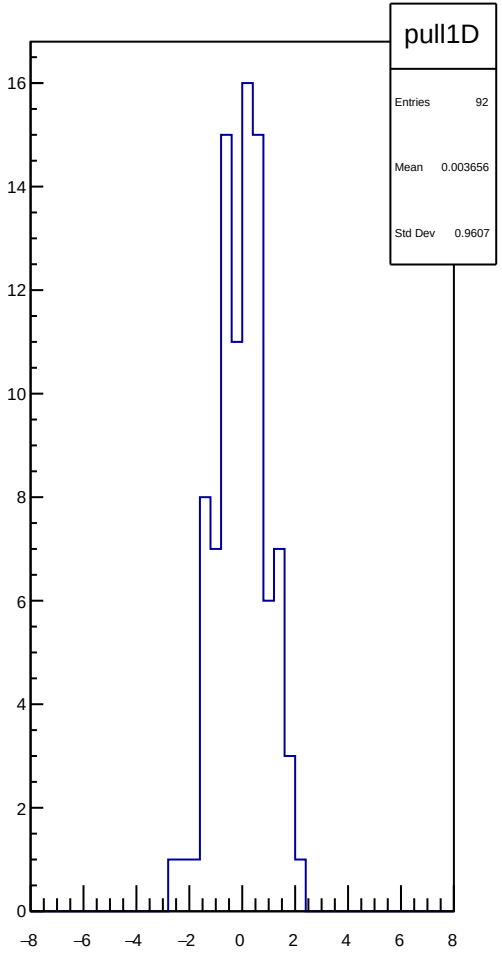

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 4435 / 91
p0 534 ± 0.4025
620
600
580
560
540
520
500
480

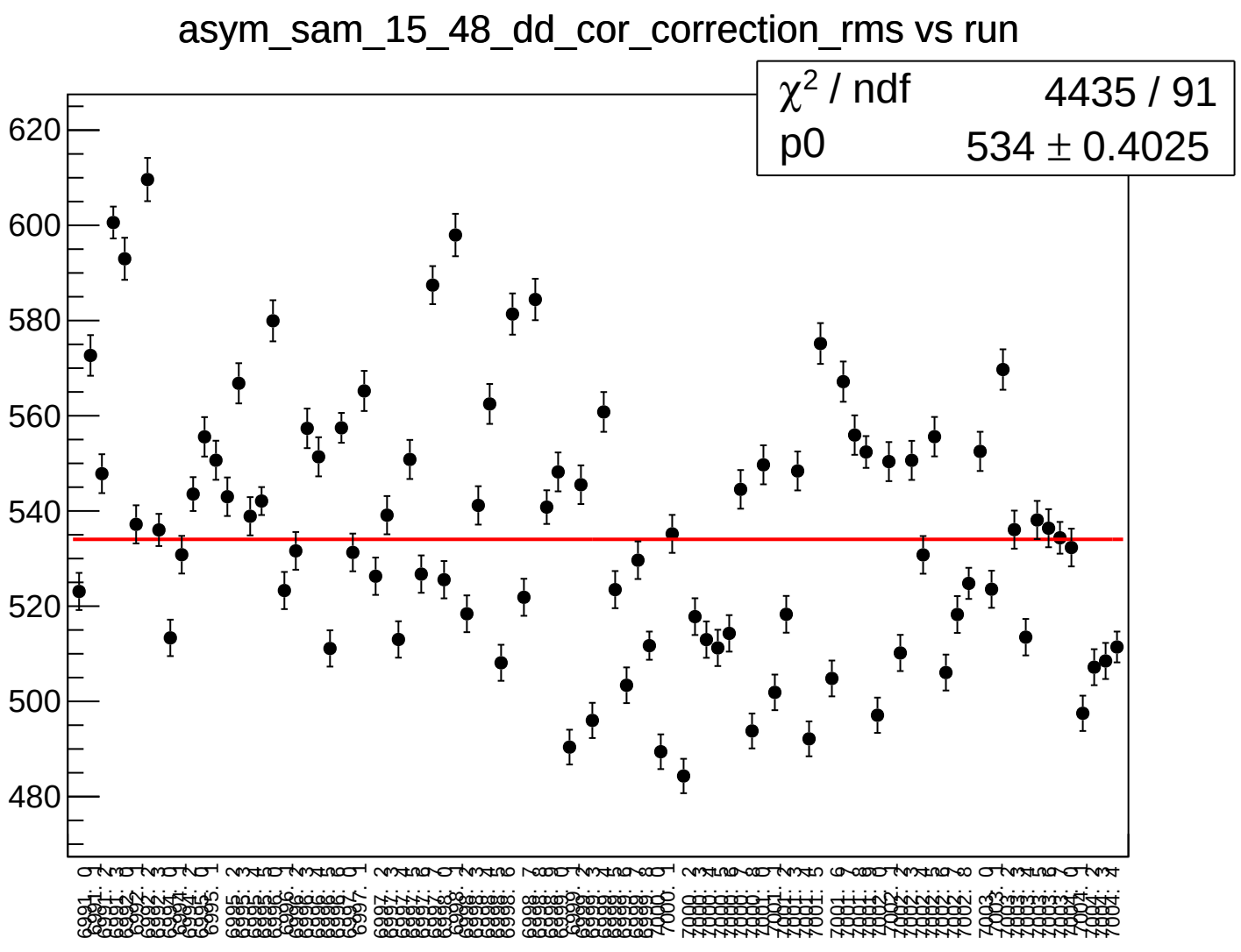

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 90.71 / 91
p0 −22.36 ± 51.87
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −71.54
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

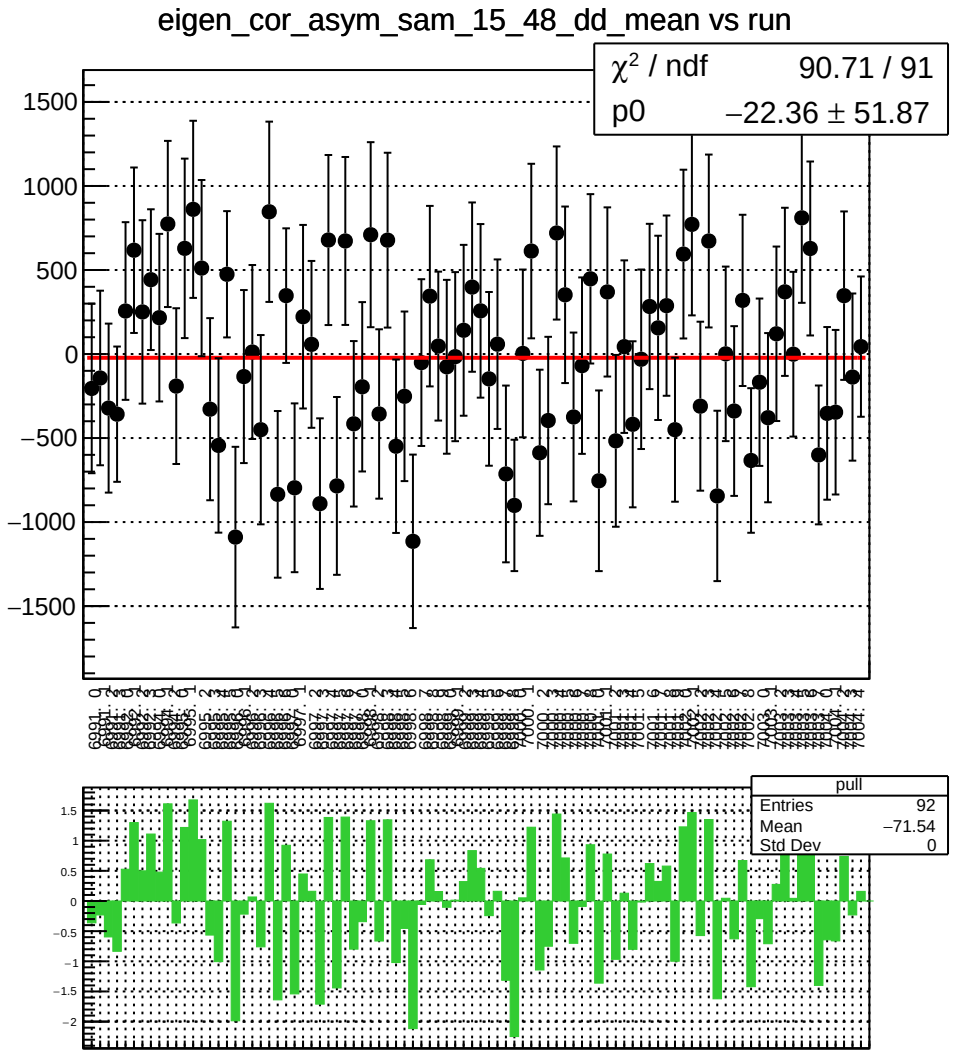

pull1D
Entries 92
Mean 0.01064
Std Dev 0.9929
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

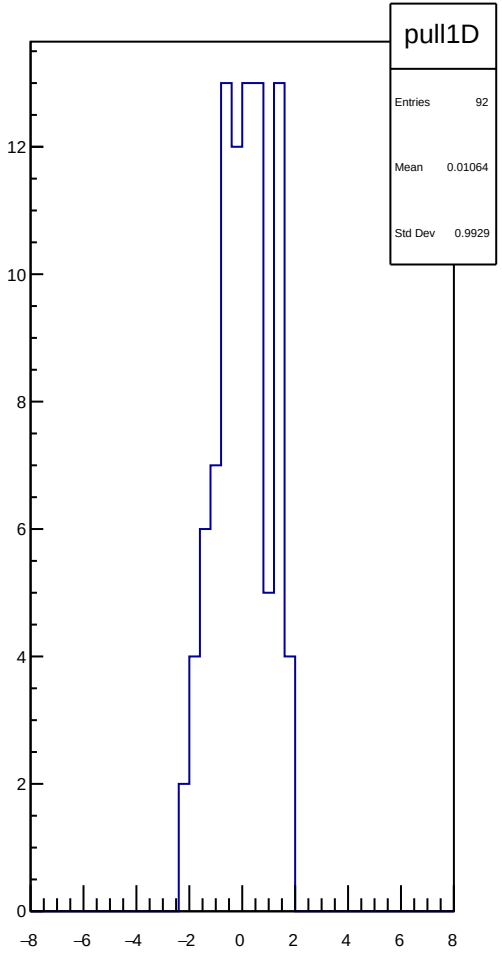

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1728 / 91
p0 48.7 ± 0.03667
54
53
52
51
50
49
48
47
46

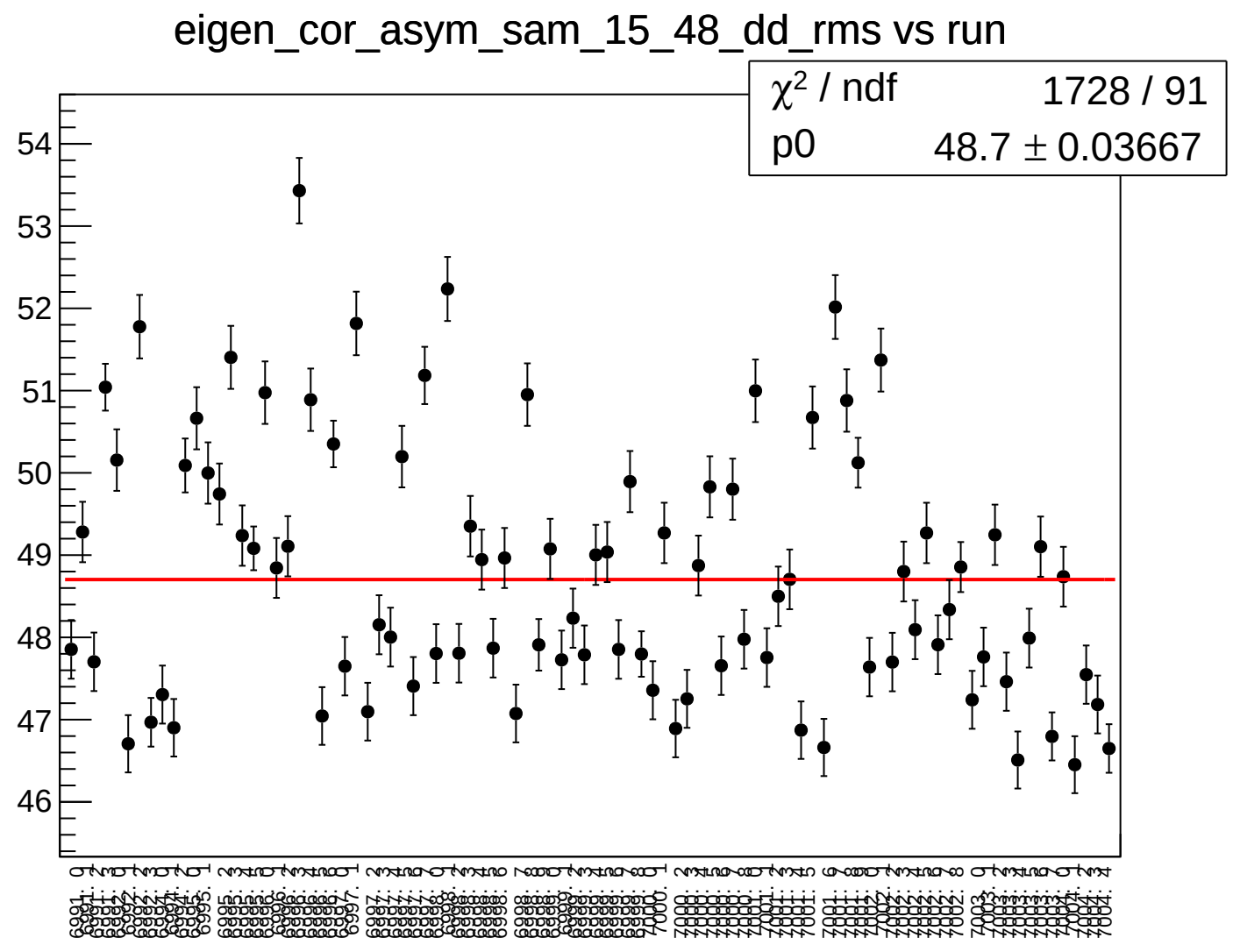

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 84.92 / 91
p0 522.8 ± 569.2
pull
Entries 92
Mean −733
Std Dev 0

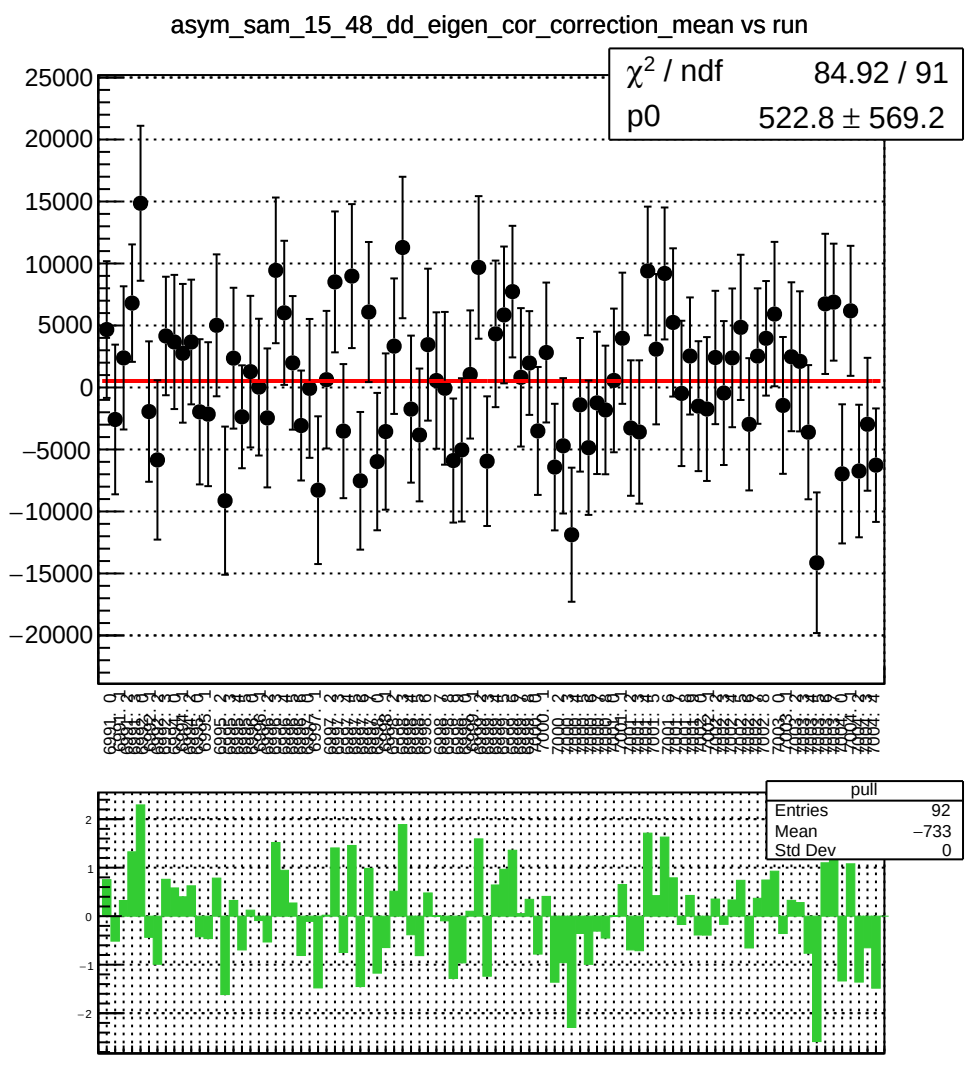

pull1D
Entries 92
Mean 0.003656
Std Dev 0.9607

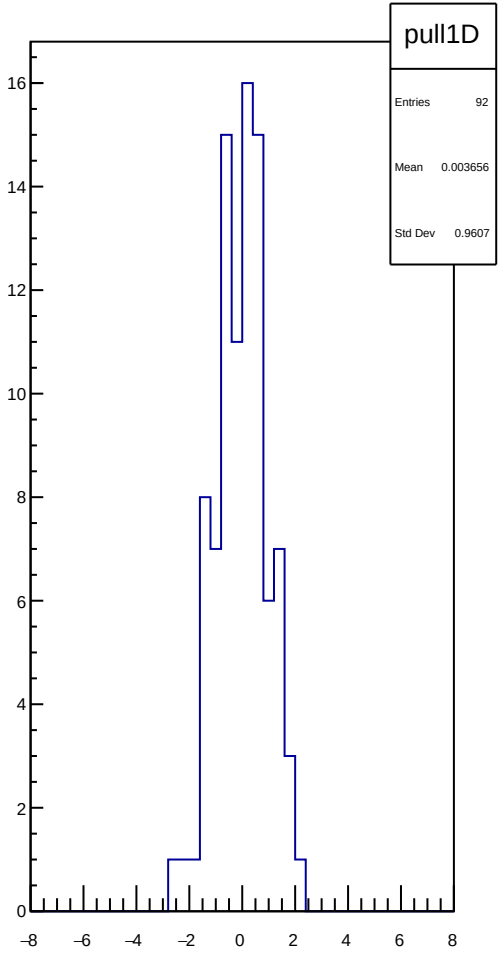

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 4435 / 91
p0 534 ± 0.4025
620
600
580
560
540
520
500
480

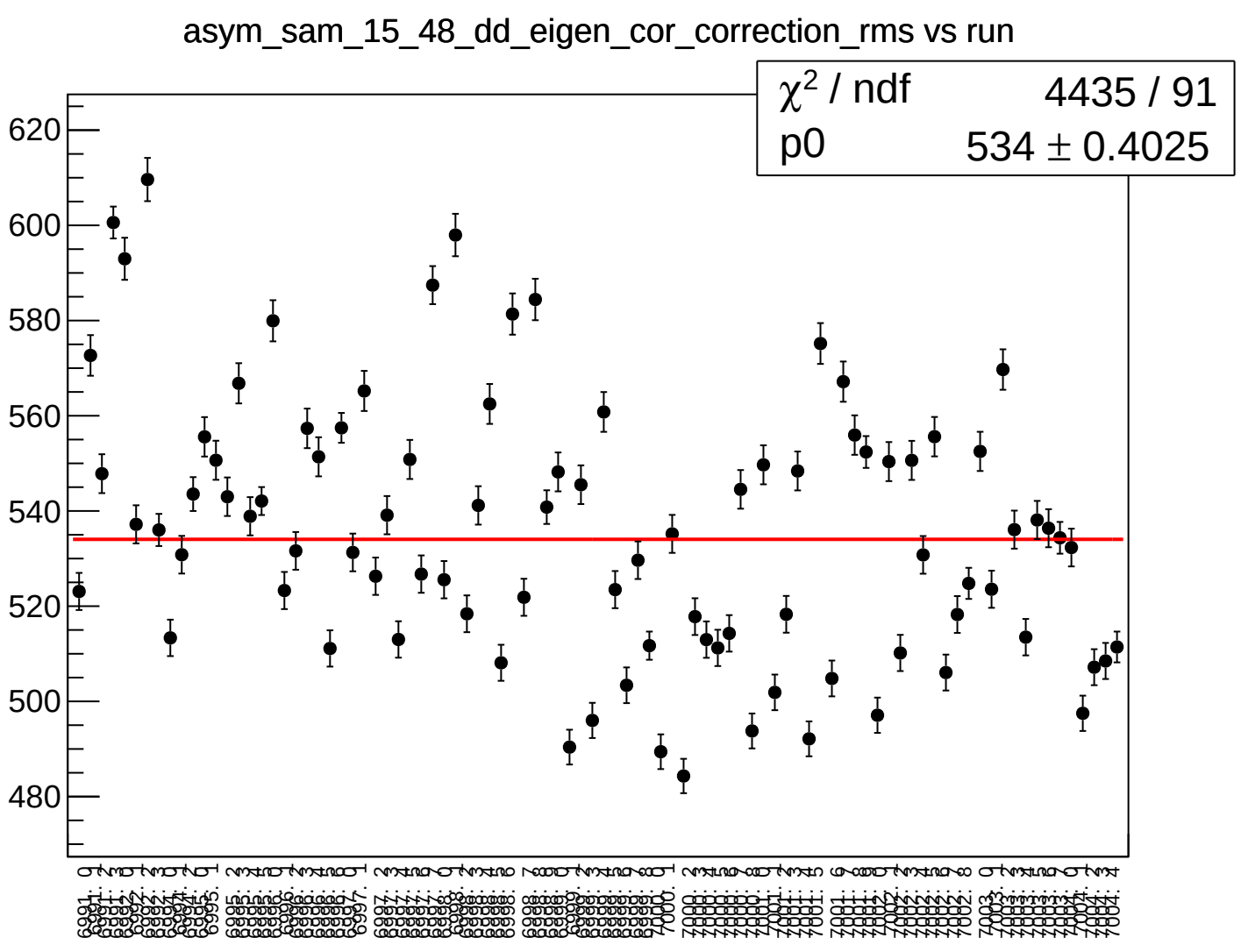

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 90.71 / 91
p0 −22.36 ± 51.87
pull
Entries 92
Mean −71.54
Std Dev 0

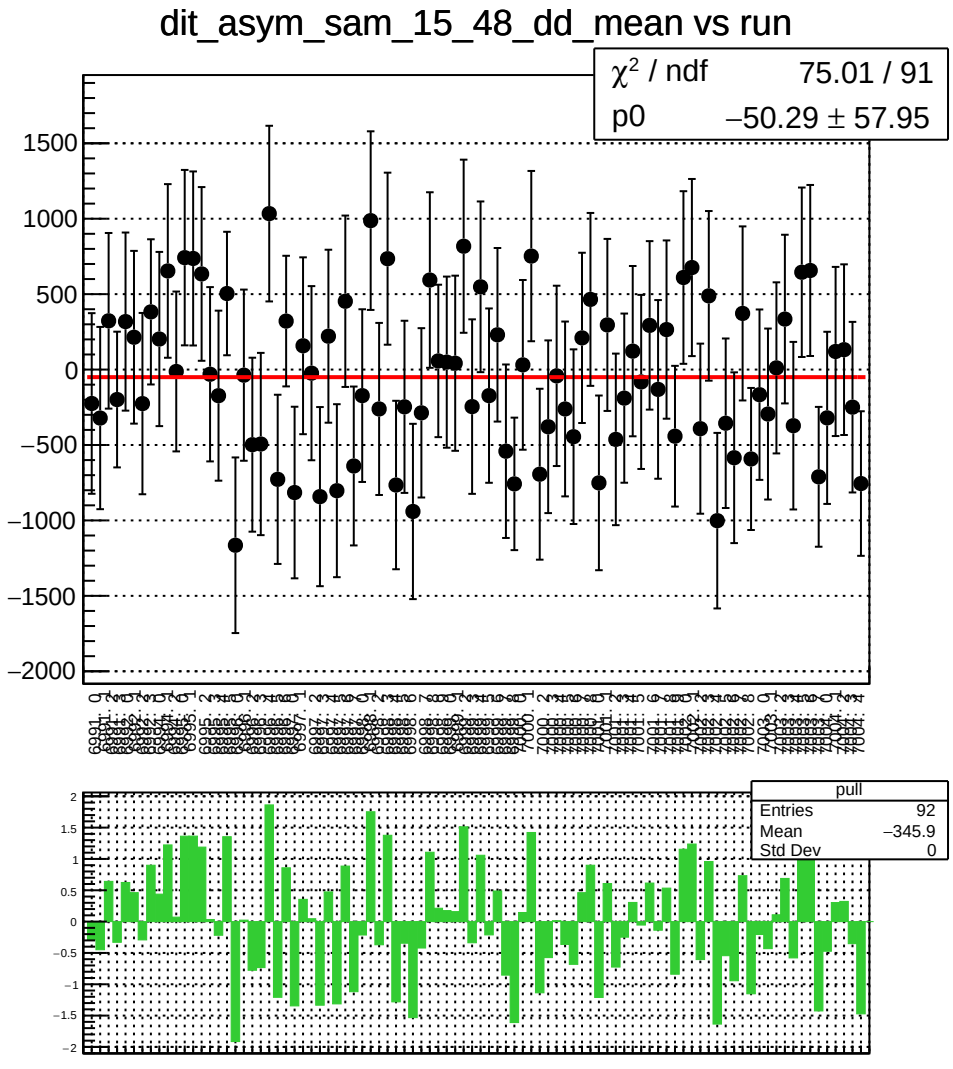

pull1D
Entries 92
Mean 0.01064
Std Dev 0.9929

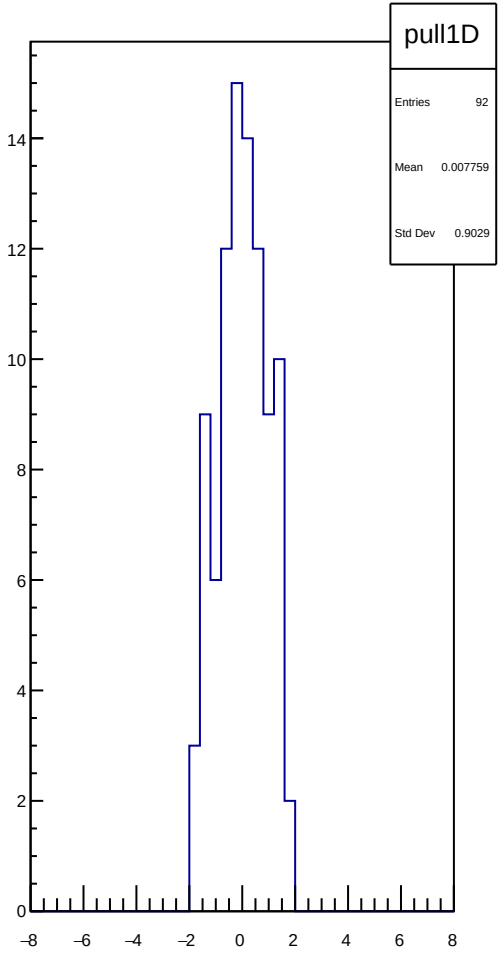

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1728 / 91
p0 48.7 ± 0.03667
54
53
52
51
50
49
48
47
46

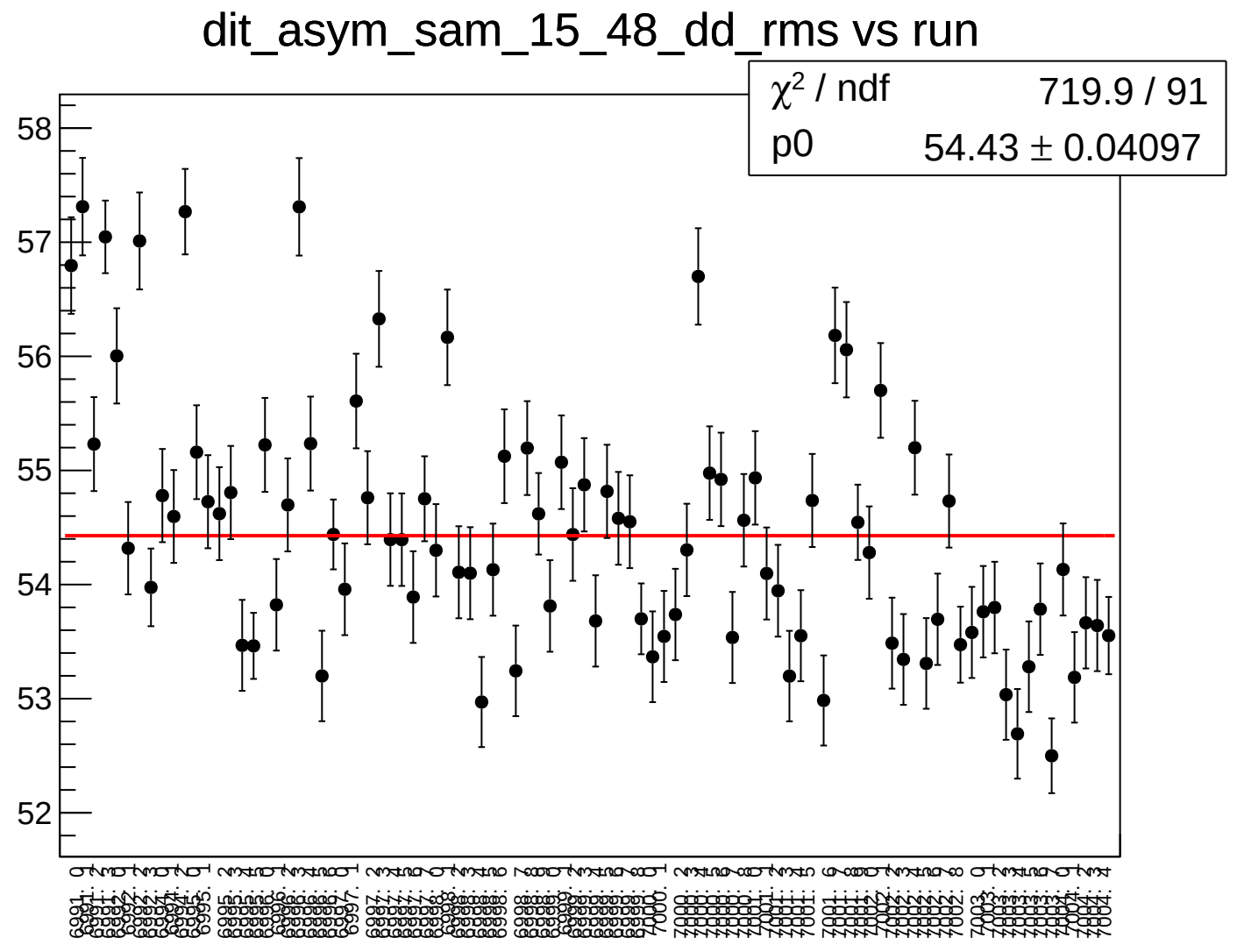

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.92 / 91
p0 522.8 ± 569.2
pull
Entries 92
Mean −733
Std Dev 0

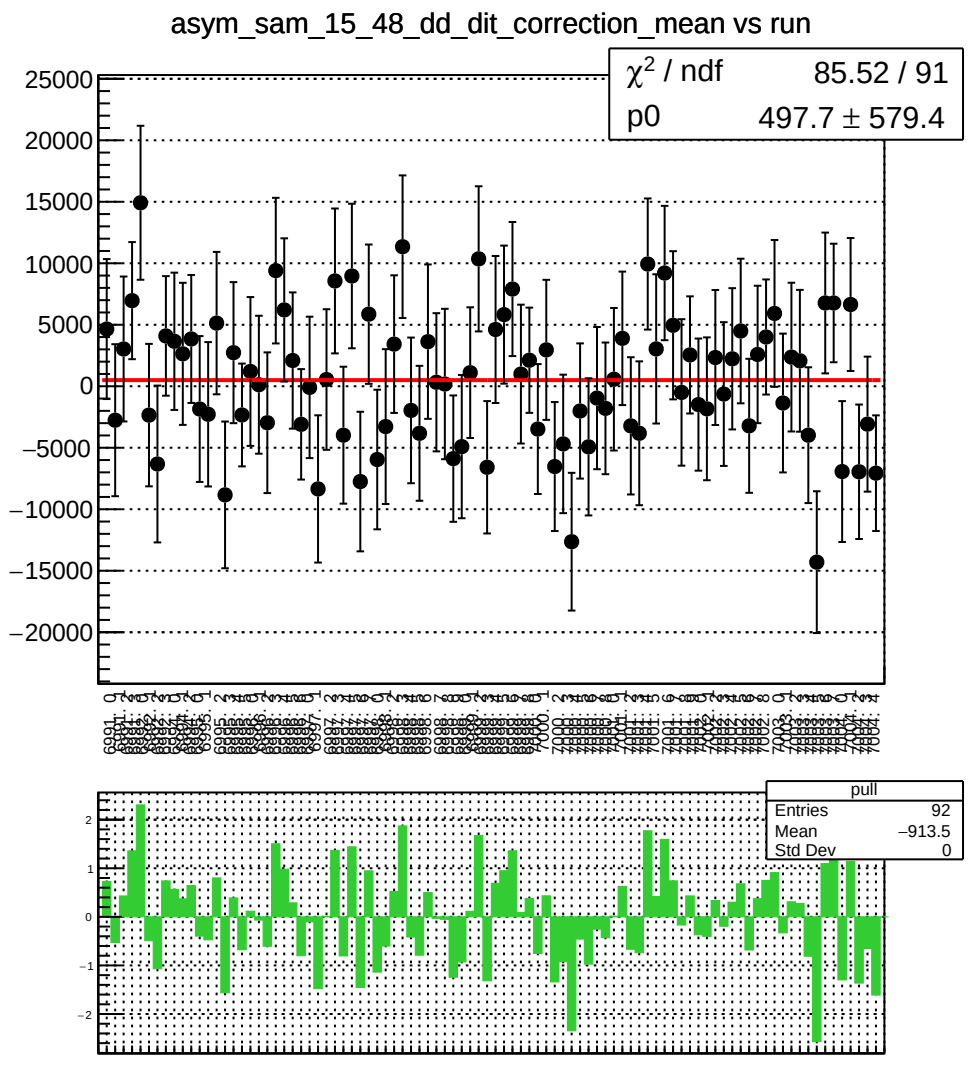

pull1D
Entries 92
Mean 0.003656
Std Dev 0.9607

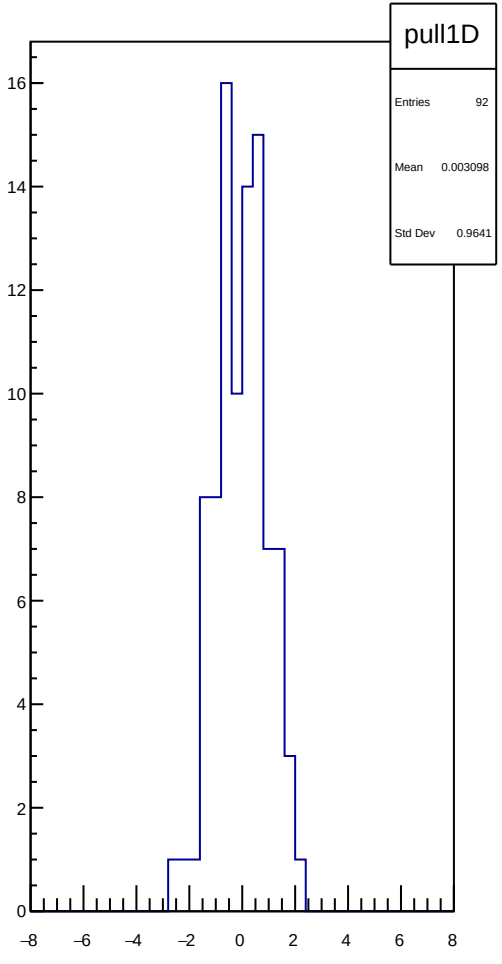

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4435 / 91
p0 534 ± 0.4025
620
600
580
560
540
520
500
480

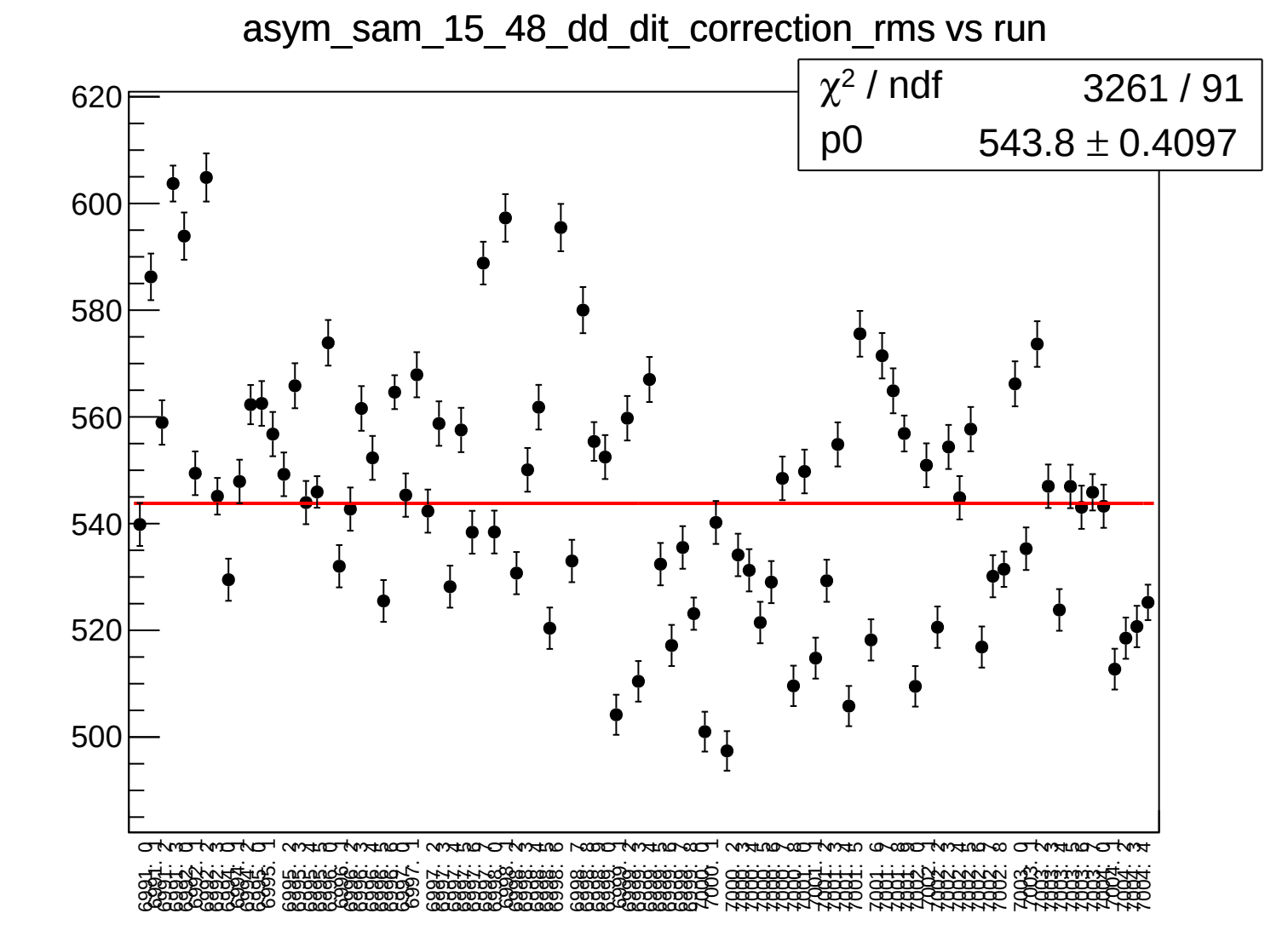

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 75.01 / 91
p0 −50.29 ± 57.95
pull
Entries 92
Mean −345.9
Std Dev 0

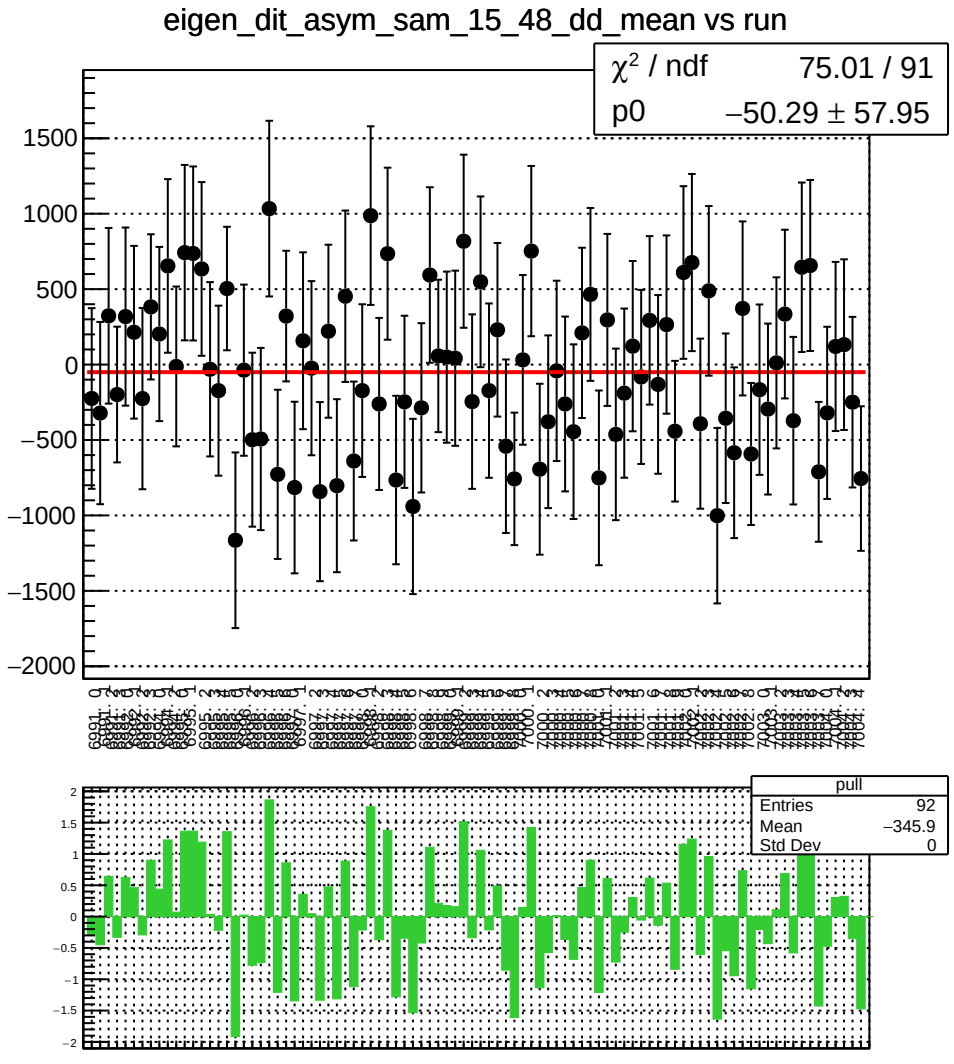

pull1D
Entries 92
Mean 0.007759
Std Dev 0.9029

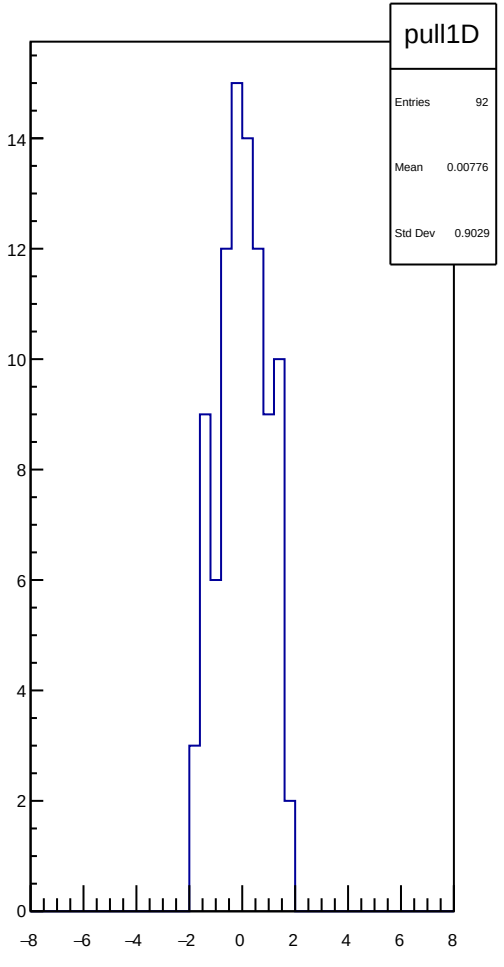

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 719.9 / 91
p0 54.43 ± 0.04097
58
57
56
55
54
53
52

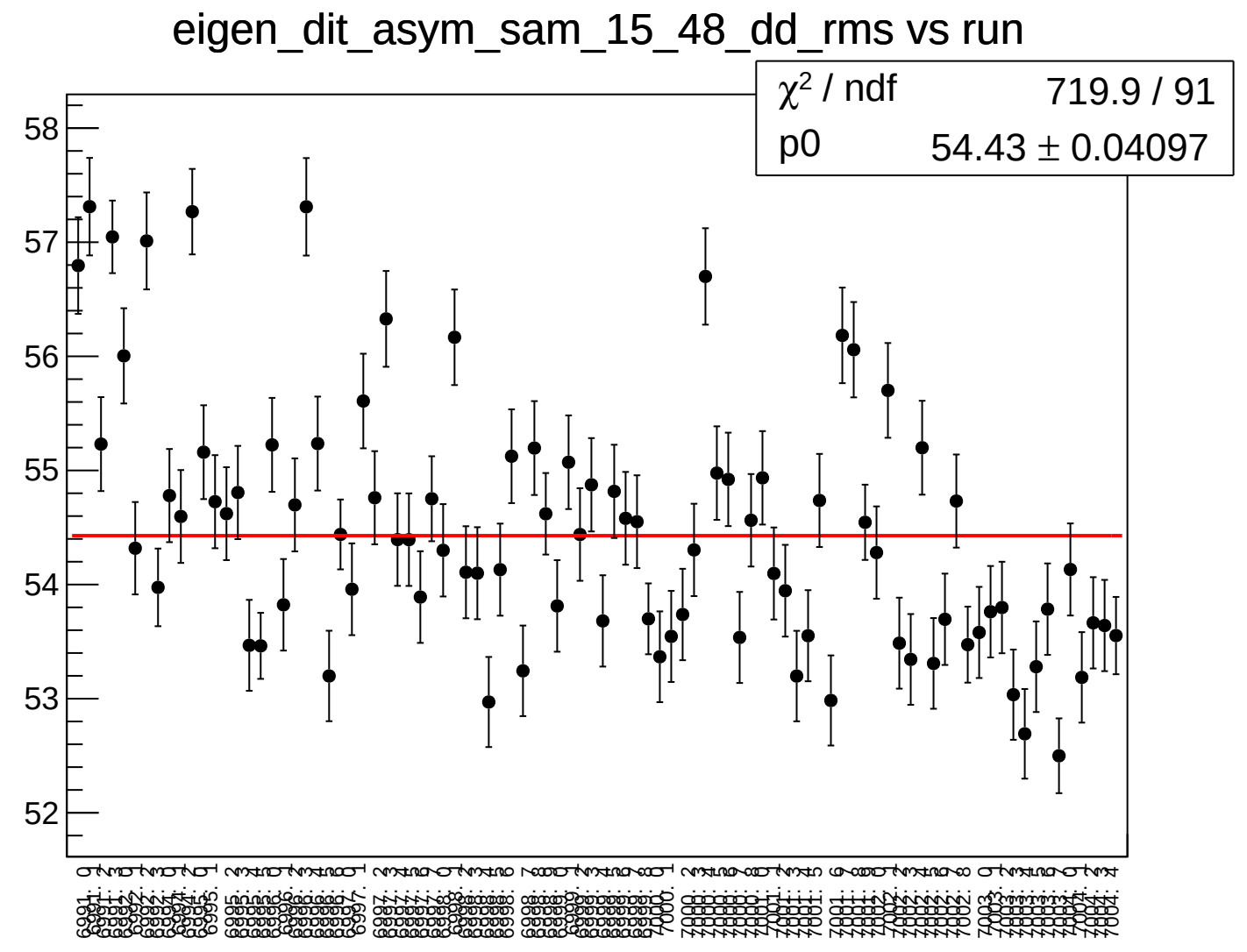

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 85.52 / 91
p0 497.7 ± 579.4
pull
Entries 92
Mean −913.5
Std Dev 0

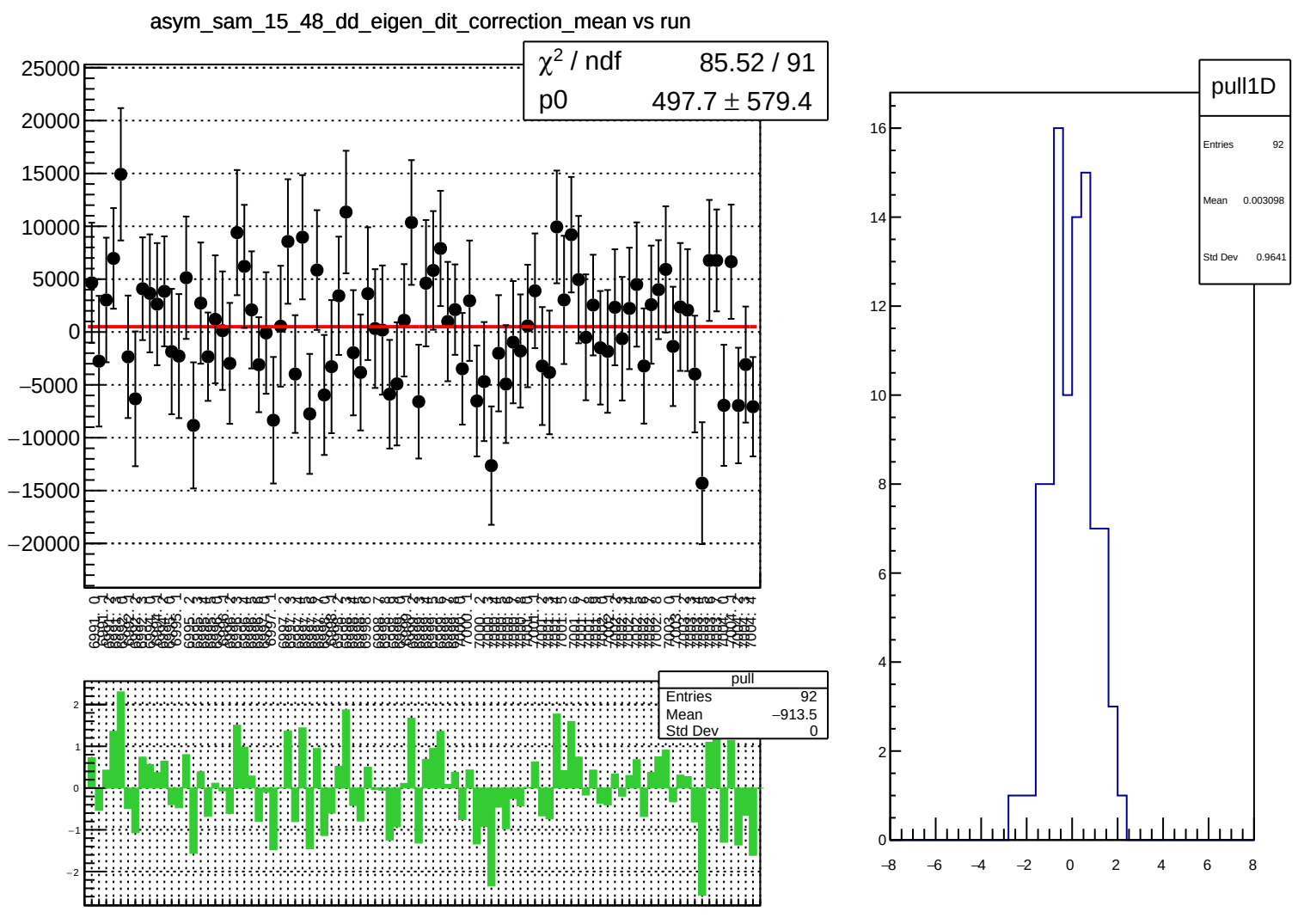

pull1D
Entries 92
Mean 0.003098
Std Dev 0.9641

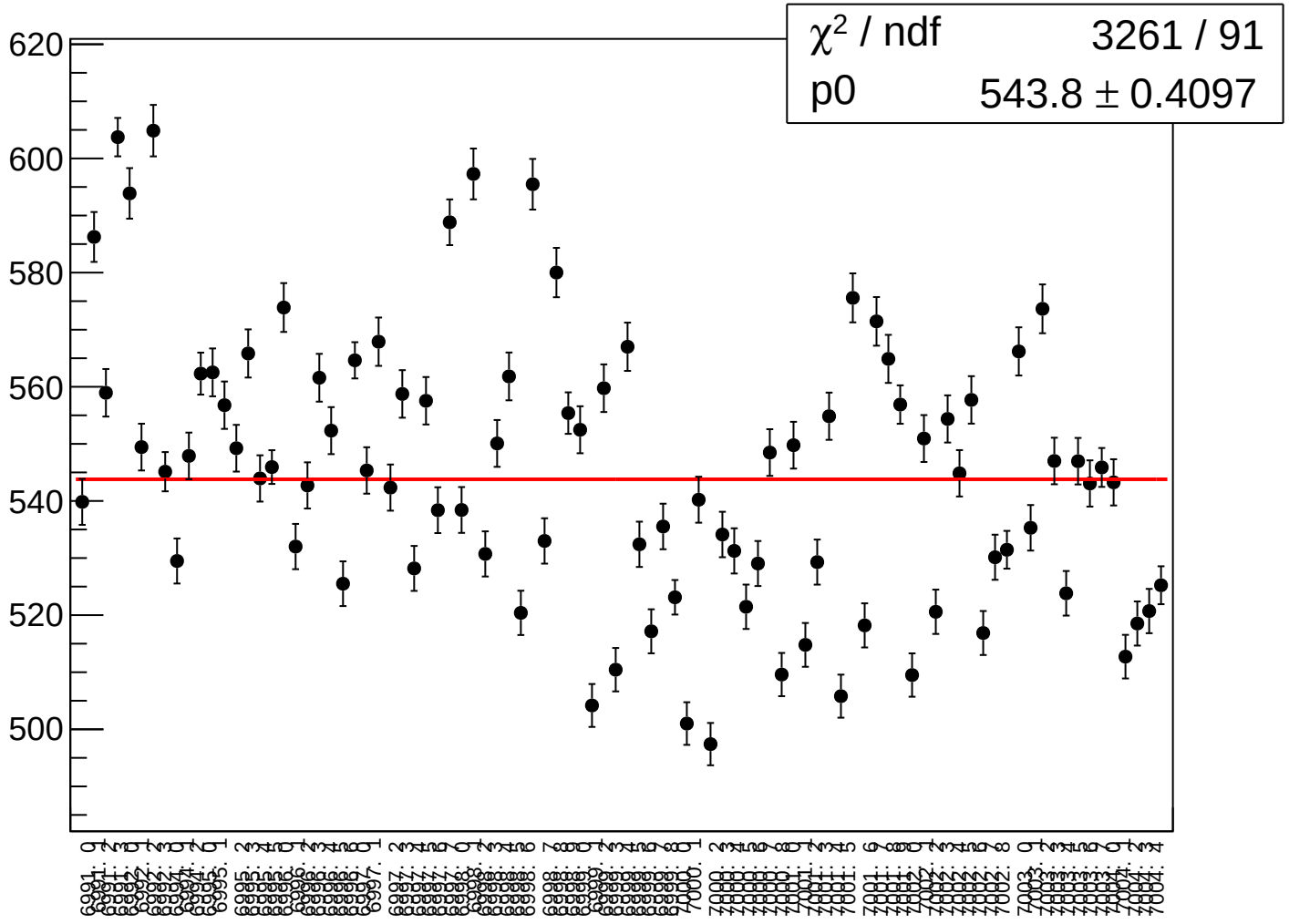

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3261 / 91
p0 543.8 ± 0.4097
620
600
580
560
540
520
500

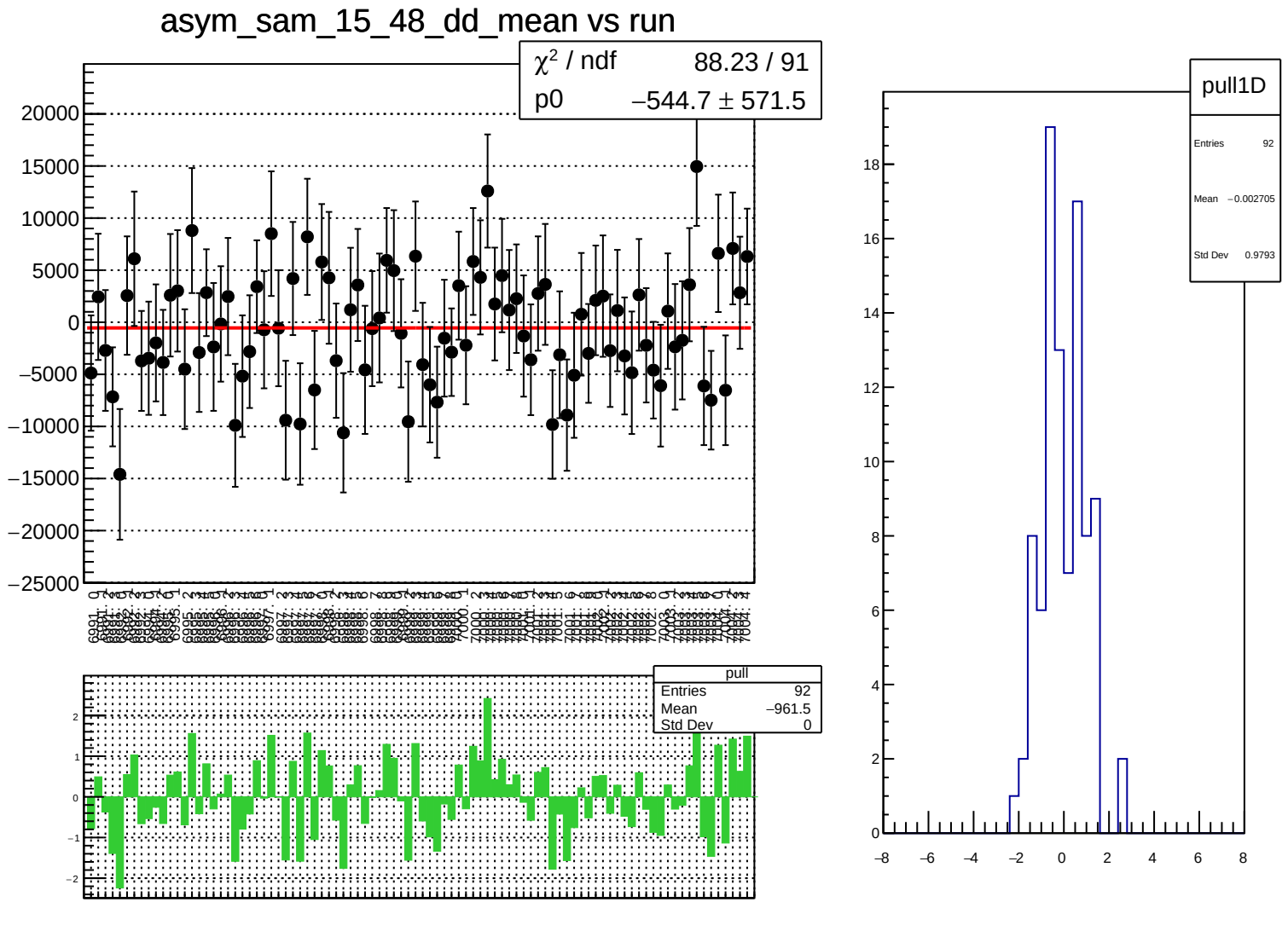

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 75.01 / 91
p0 −50.29 ± 57.95
pull
Entries 92
Mean −345.9
Std Dev 0

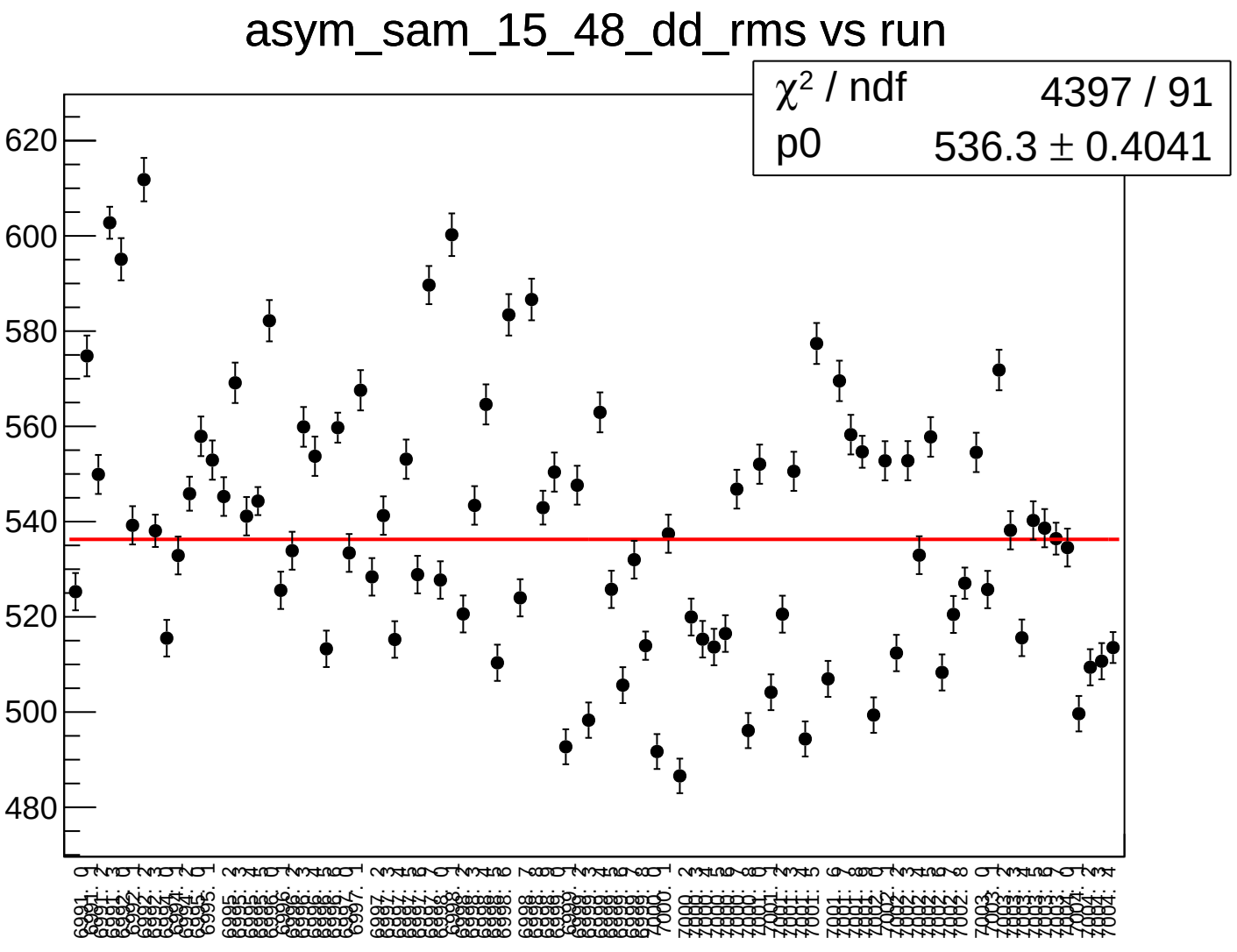

pull1D
Entries 92
Mean 0.00776
Std Dev 0.9029

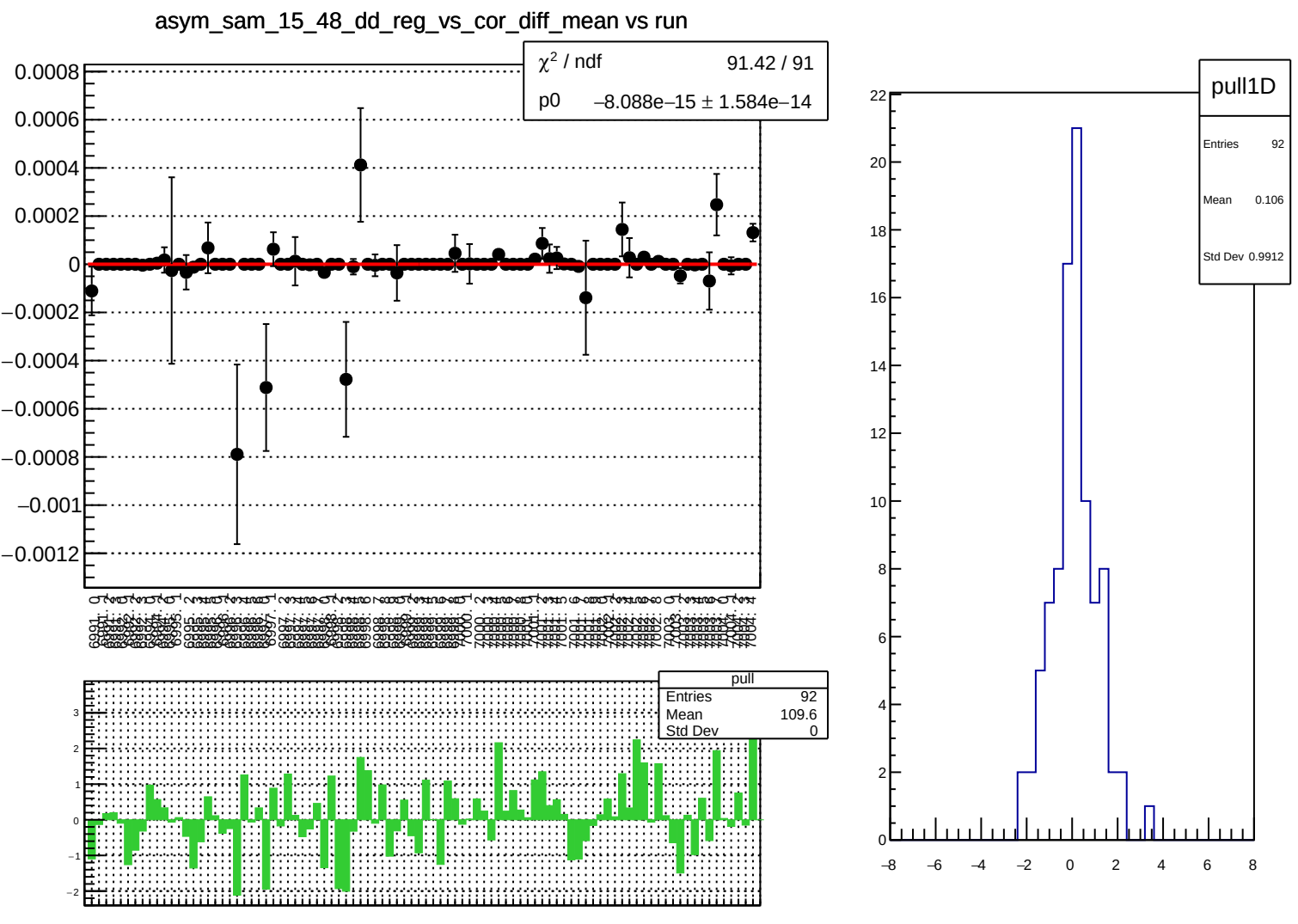

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 719.9 / 91
p0 54.43 ± 0.04097
58
57
56
55
54
53
52

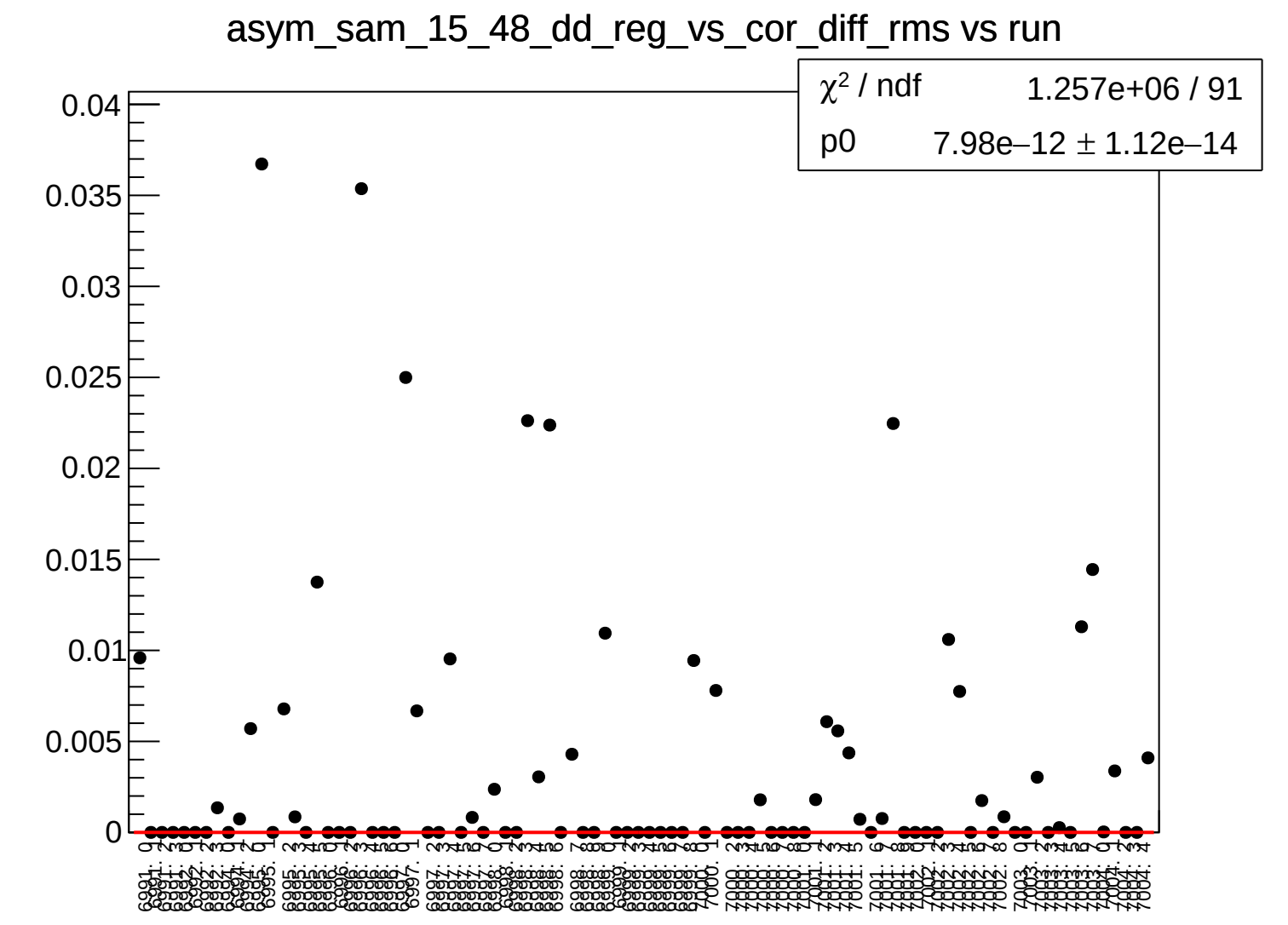

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.52 / 91
p0 497.7 ± 579.4
pull
Entries 92
Mean −913.5
Std Dev 0
pull1D
Entries 92
Mean 0.003098
Std Dev 0.9641

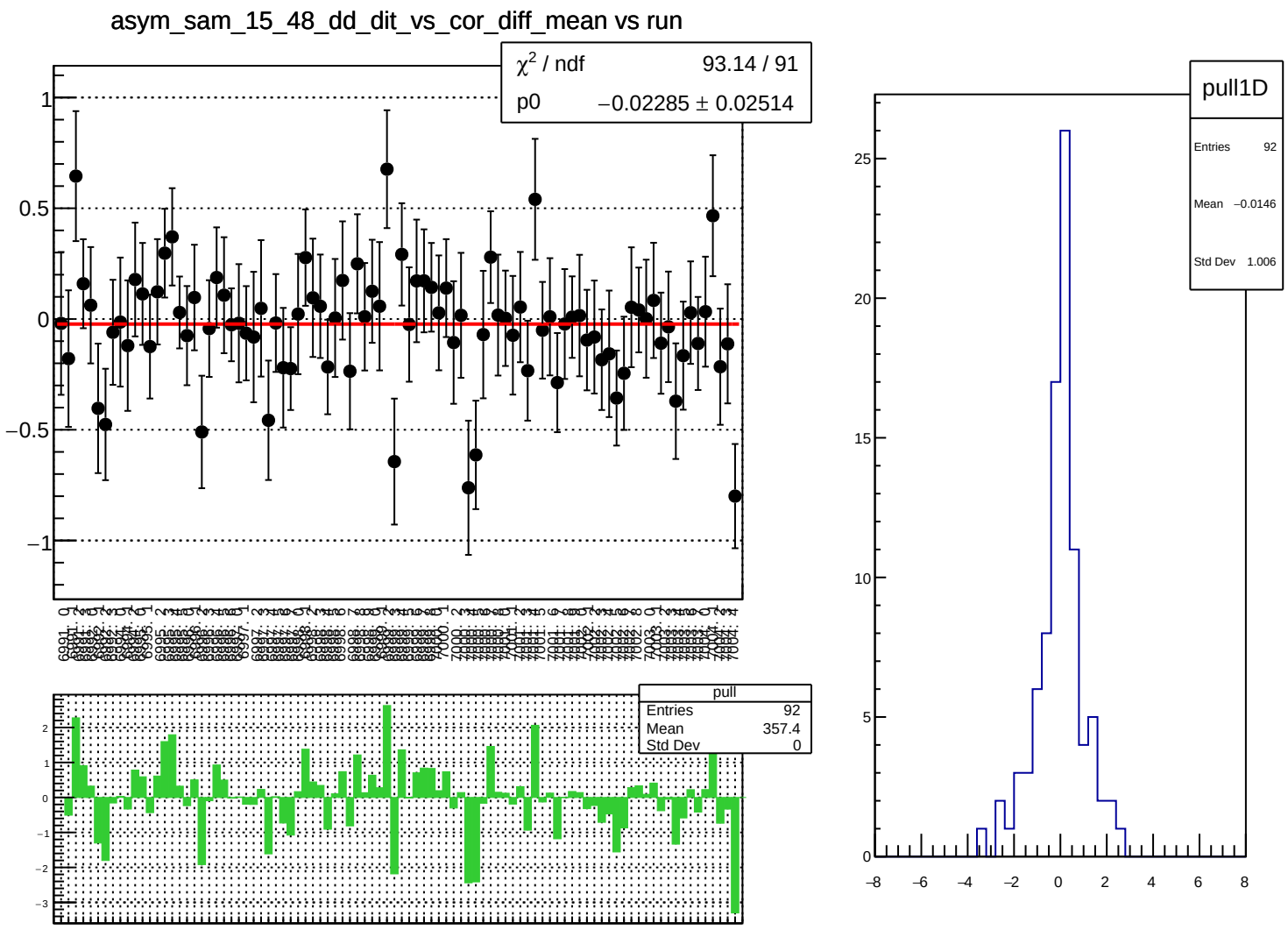

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3261 / 91
p0 543.8 ± 0.4097
620
600
580
560
540
520
500

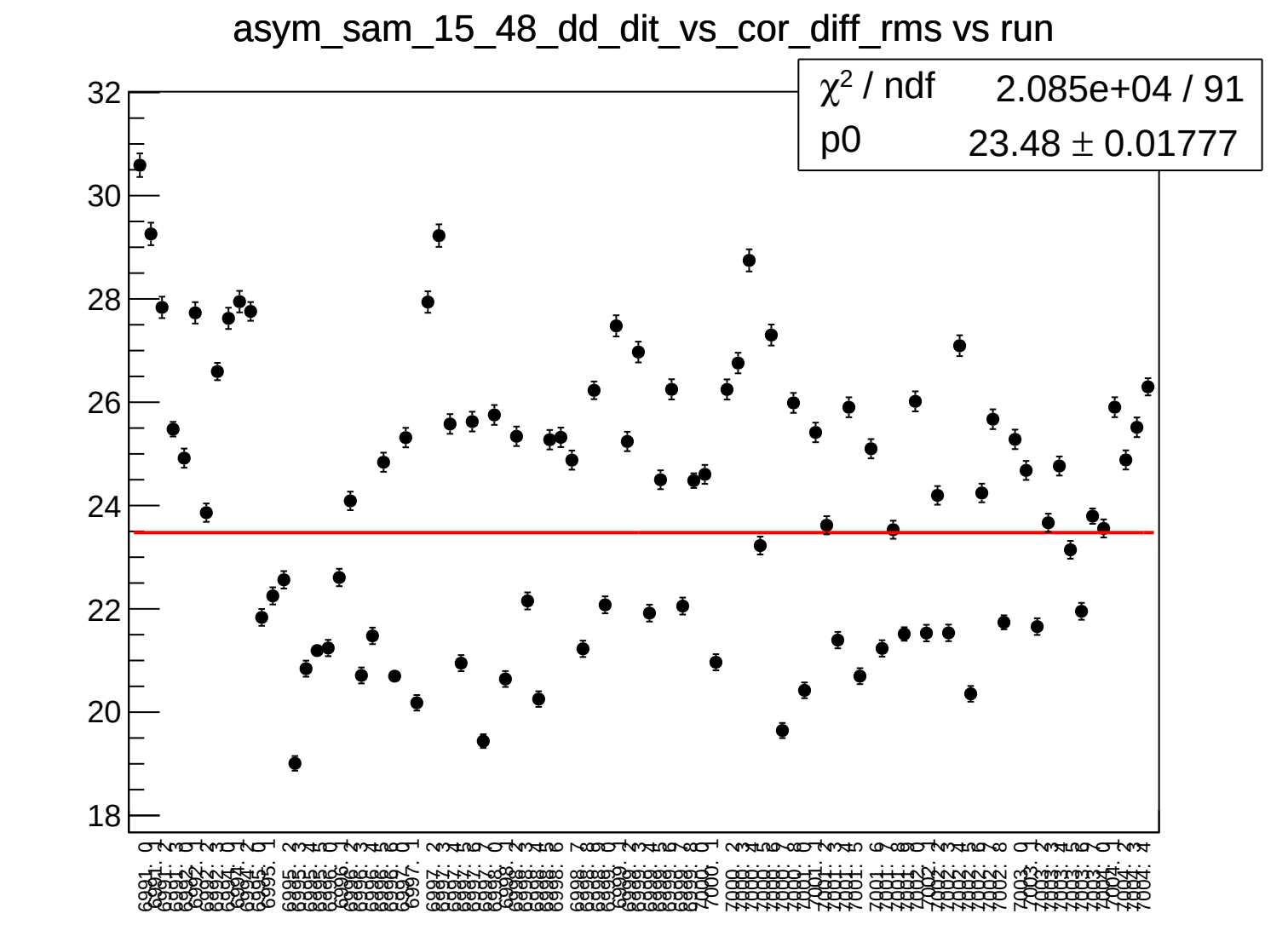

asym_sam_15_48_dd_mean vs run
χ² / ndf 88.23 / 91
p0 −544.7 ± 571.5
pull
Entries 92
Mean −961.5
Std Dev 0
pull1D
Entries 92
Mean −0.002705
Std Dev 0.9793

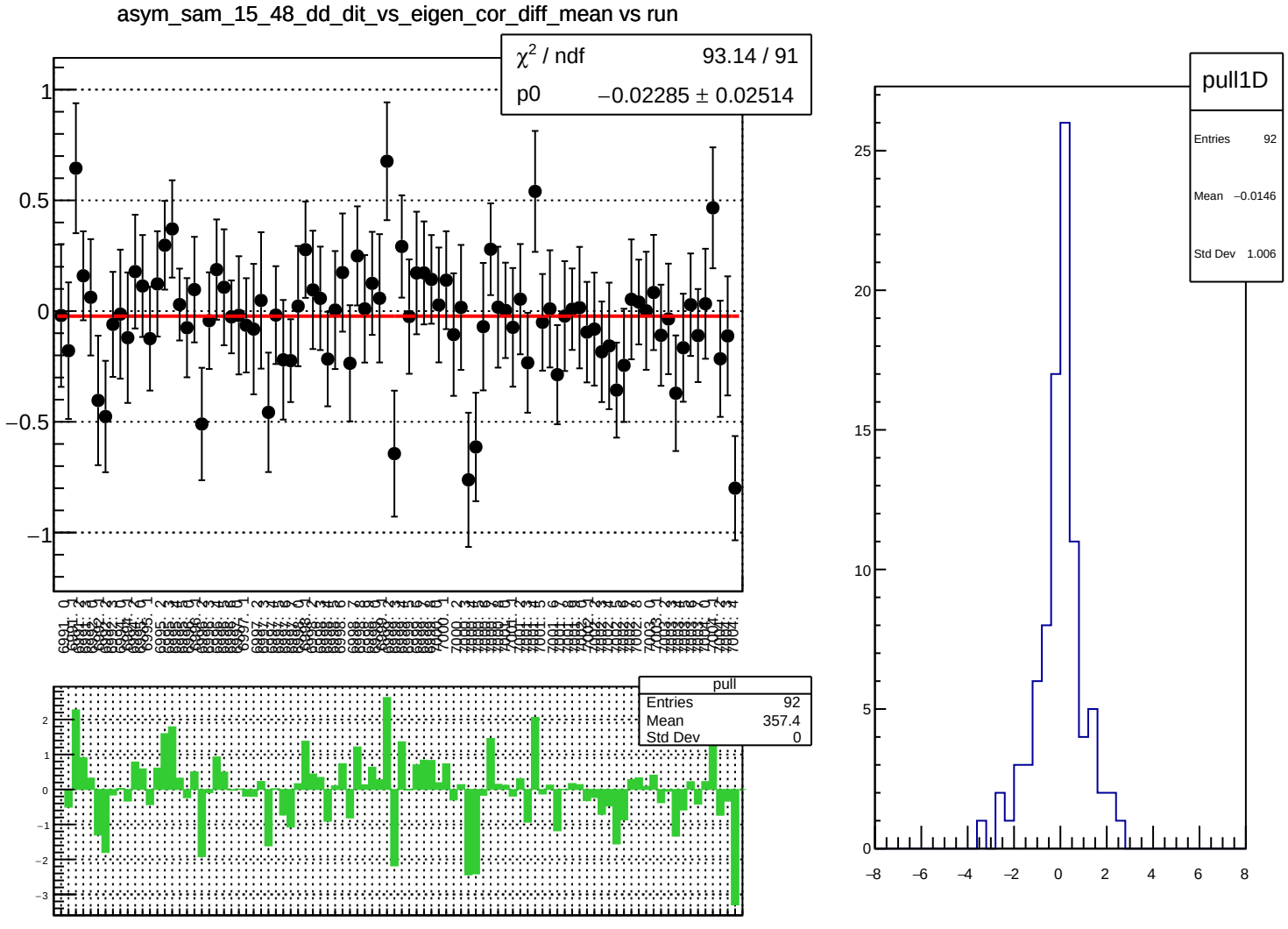

asym_sam_15_48_dd_rms vs run
χ² / ndf 4397 / 91
p0 536.3 ± 0.4041
620
600
580
560
540
520
500
480

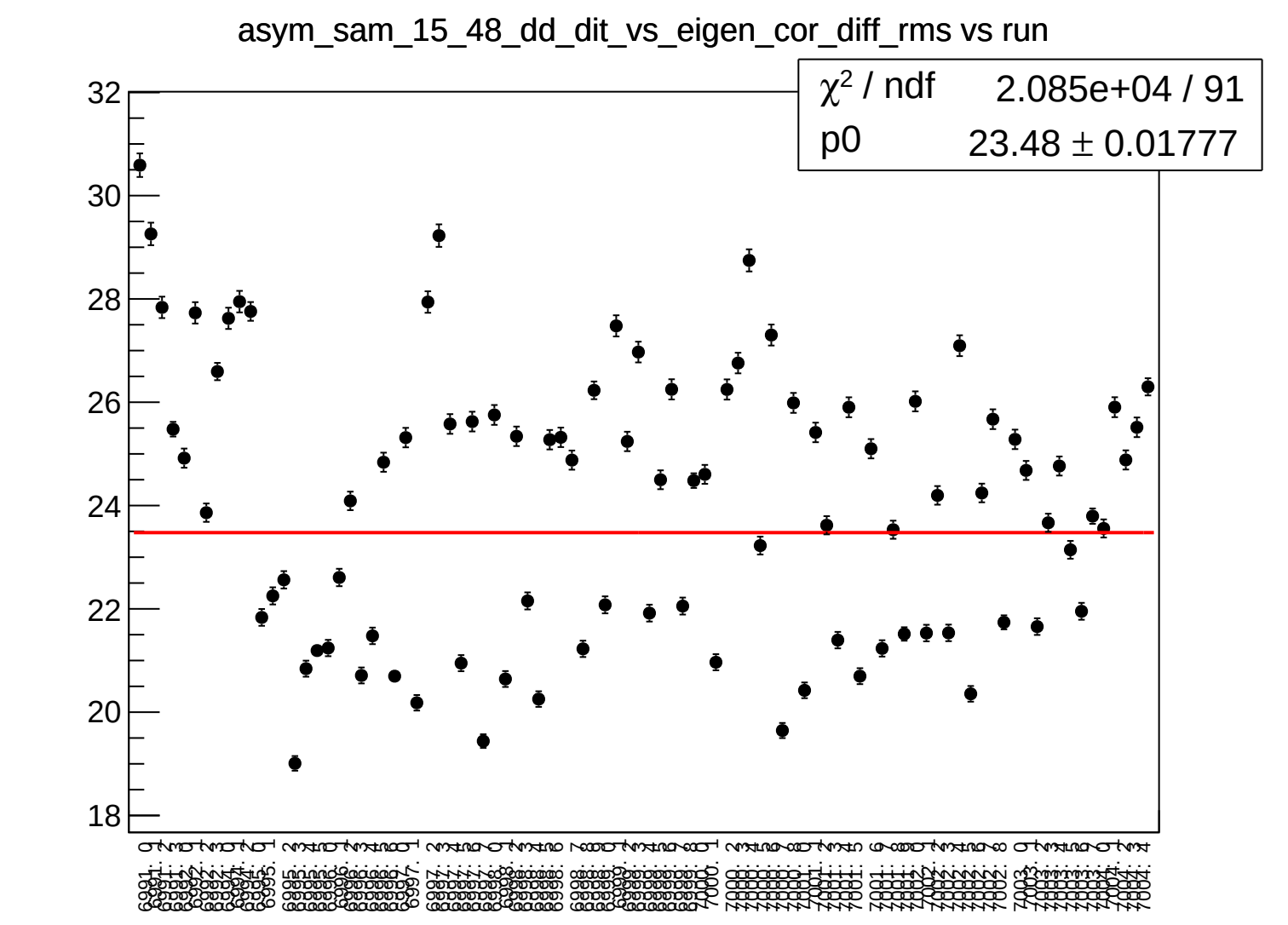

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.42 / 91
p0 −8.088e−15 ± 1.584e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 92
Mean 109.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.106
Std Dev 0.9912
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

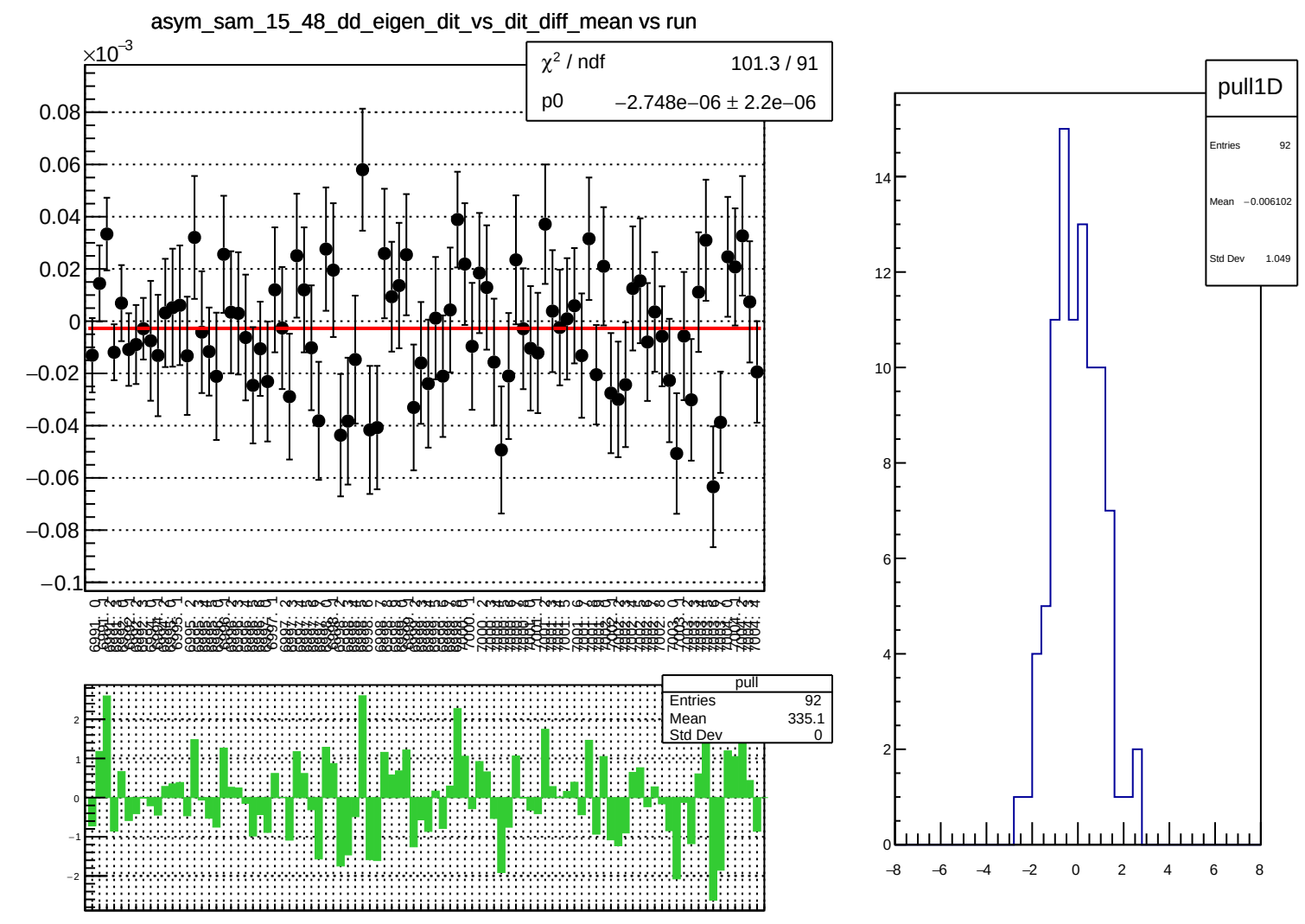

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.257e+06 / 91
p0 7.98e−12 ± 1.12e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

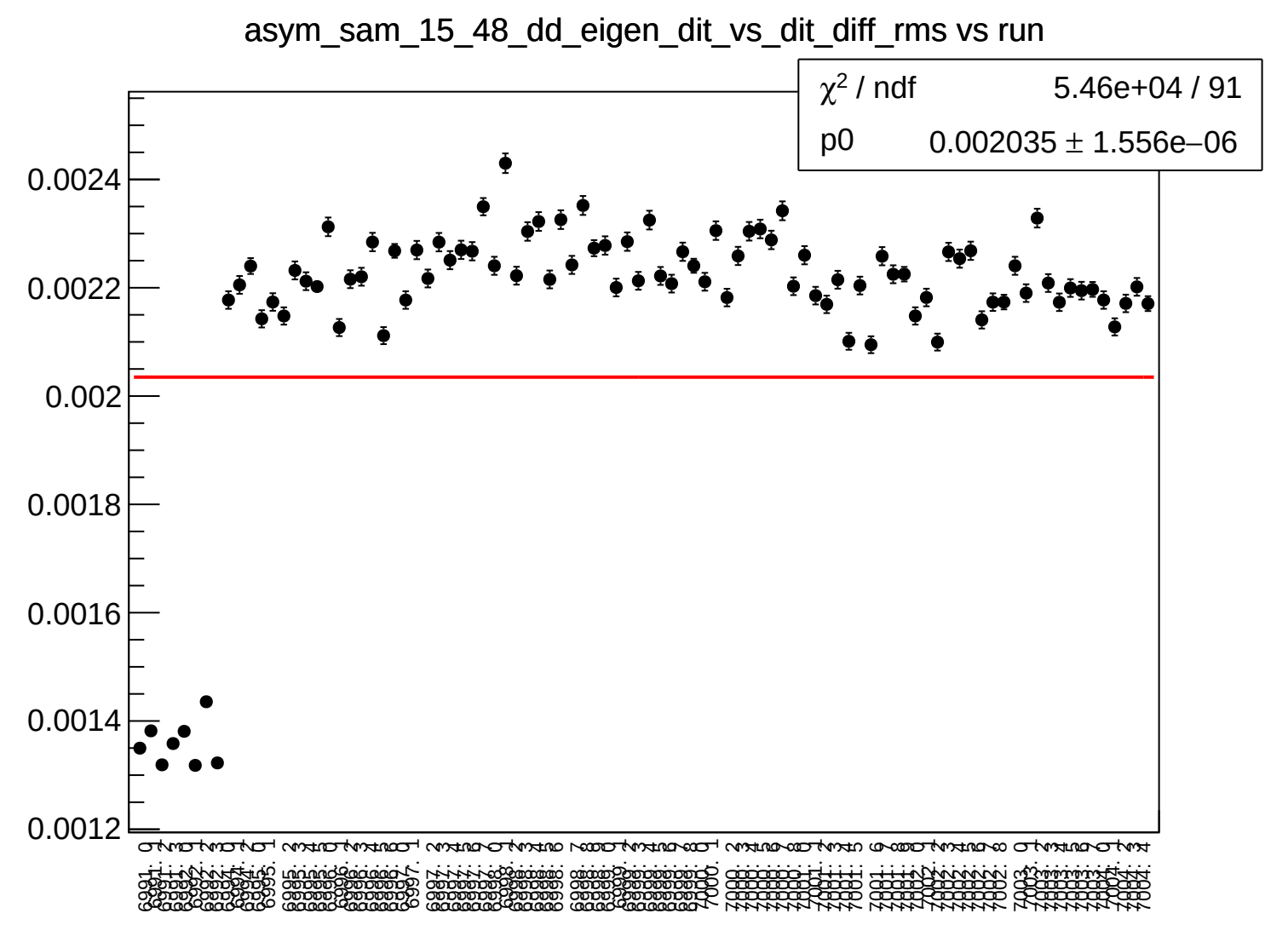

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.14 / 91
p0 −0.02285 ± 0.02514
pull
Entries 92
Mean 357.4
Std Dev 0
pull1D
Entries 92
Mean −0.0146
Std Dev 1.006

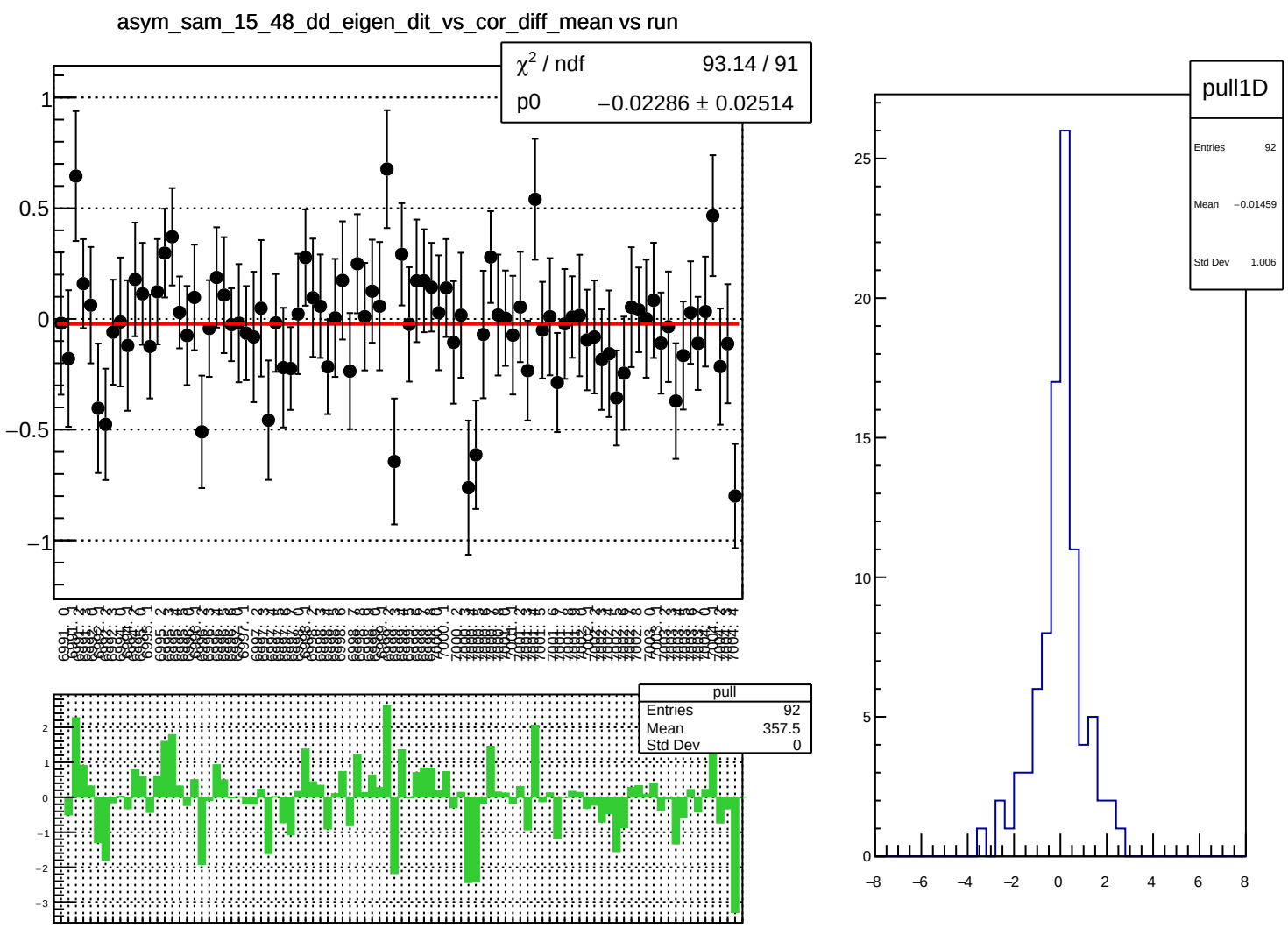

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.085e+04 / 91
p0 23.48 ± 0.01777
32
30
28
26
24
22
20
18

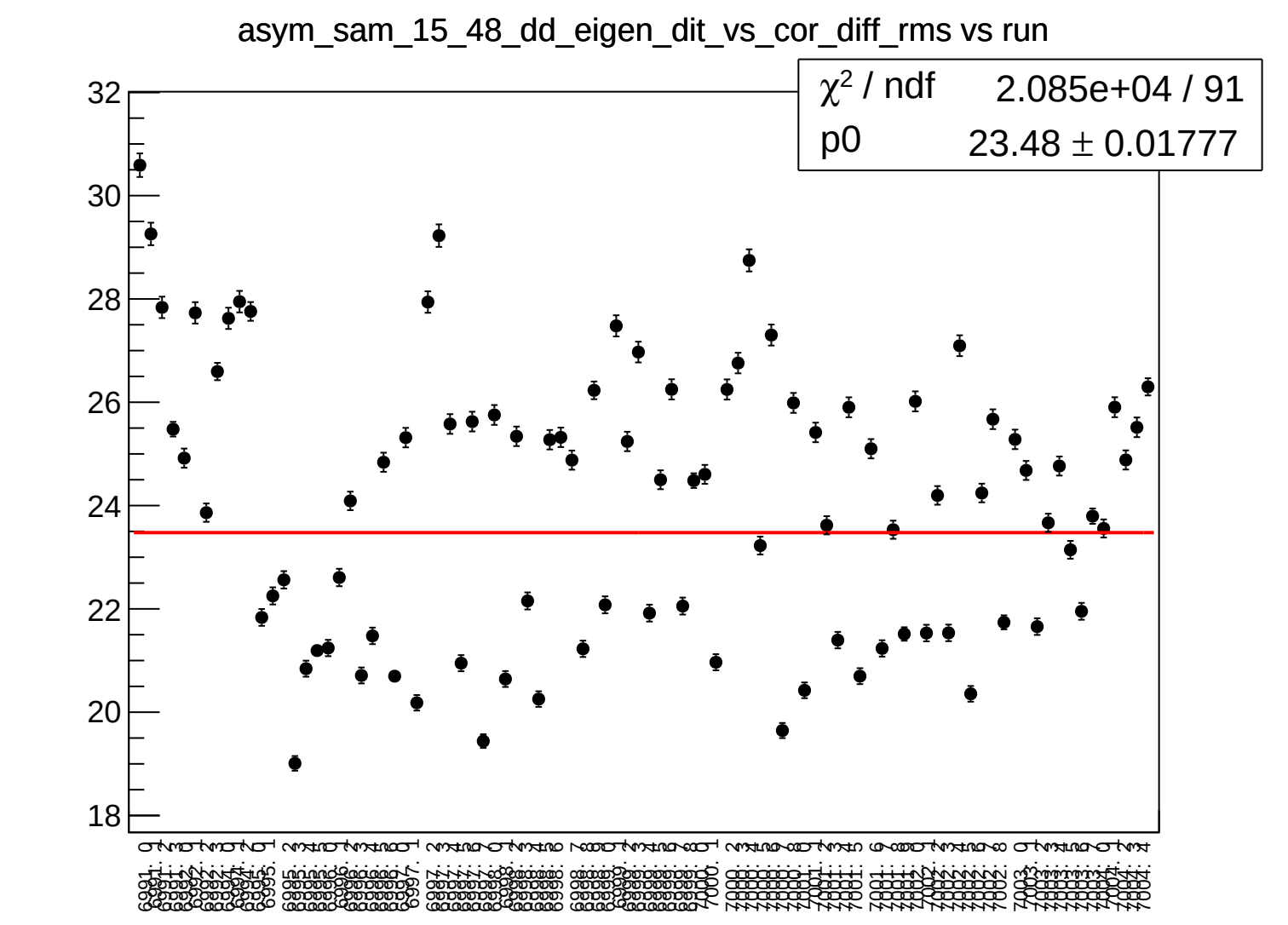

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.14 / 91
p0 −0.02285 ± 0.02514
pull
Entries 92
Mean 357.4
Std Dev 0
pull1D
Entries 92
Mean −0.0146
Std Dev 1.006

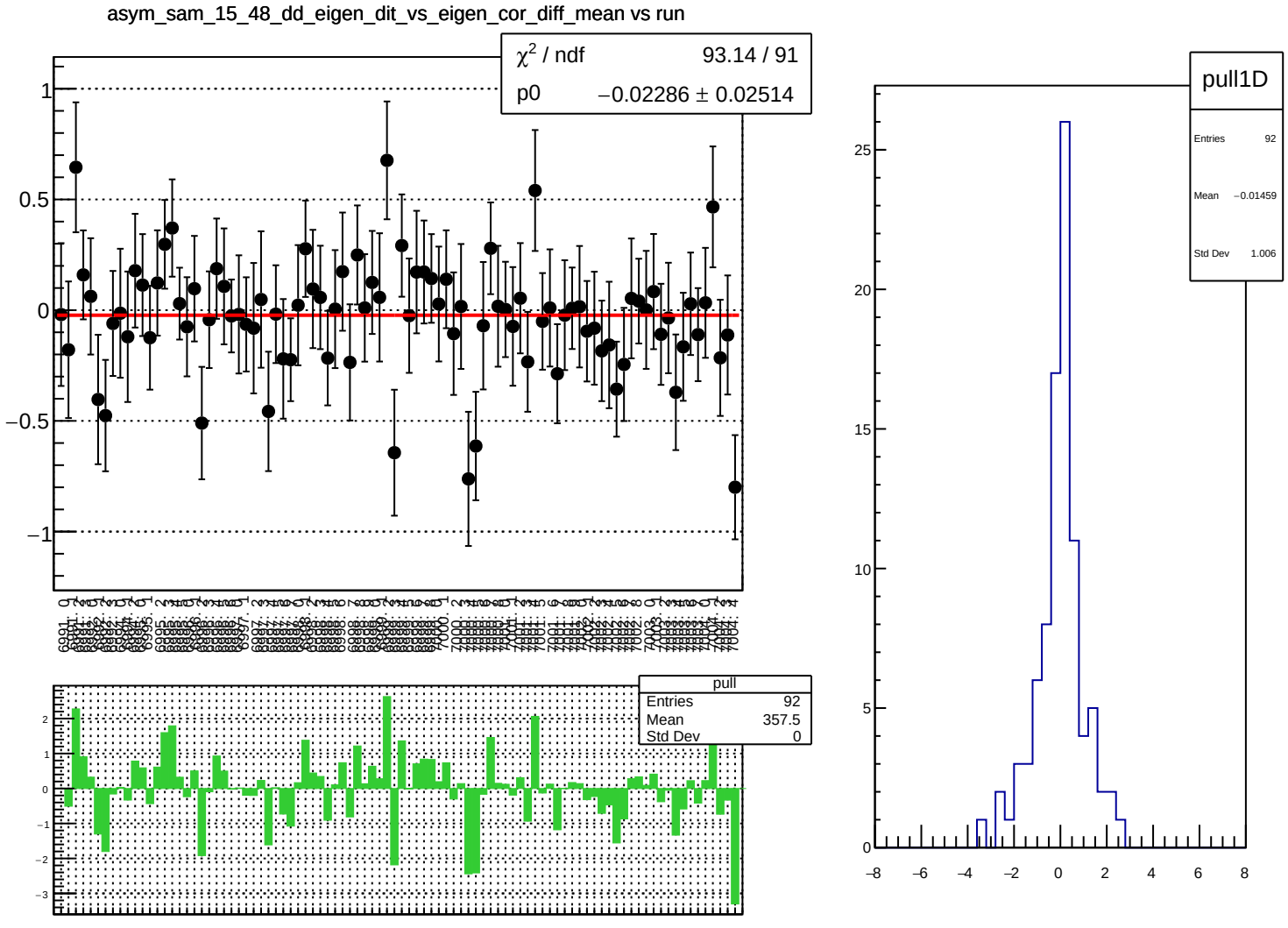

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.085e+04 / 91
p0 23.48 ± 0.01777
32
30
28
26
24
22
20
18

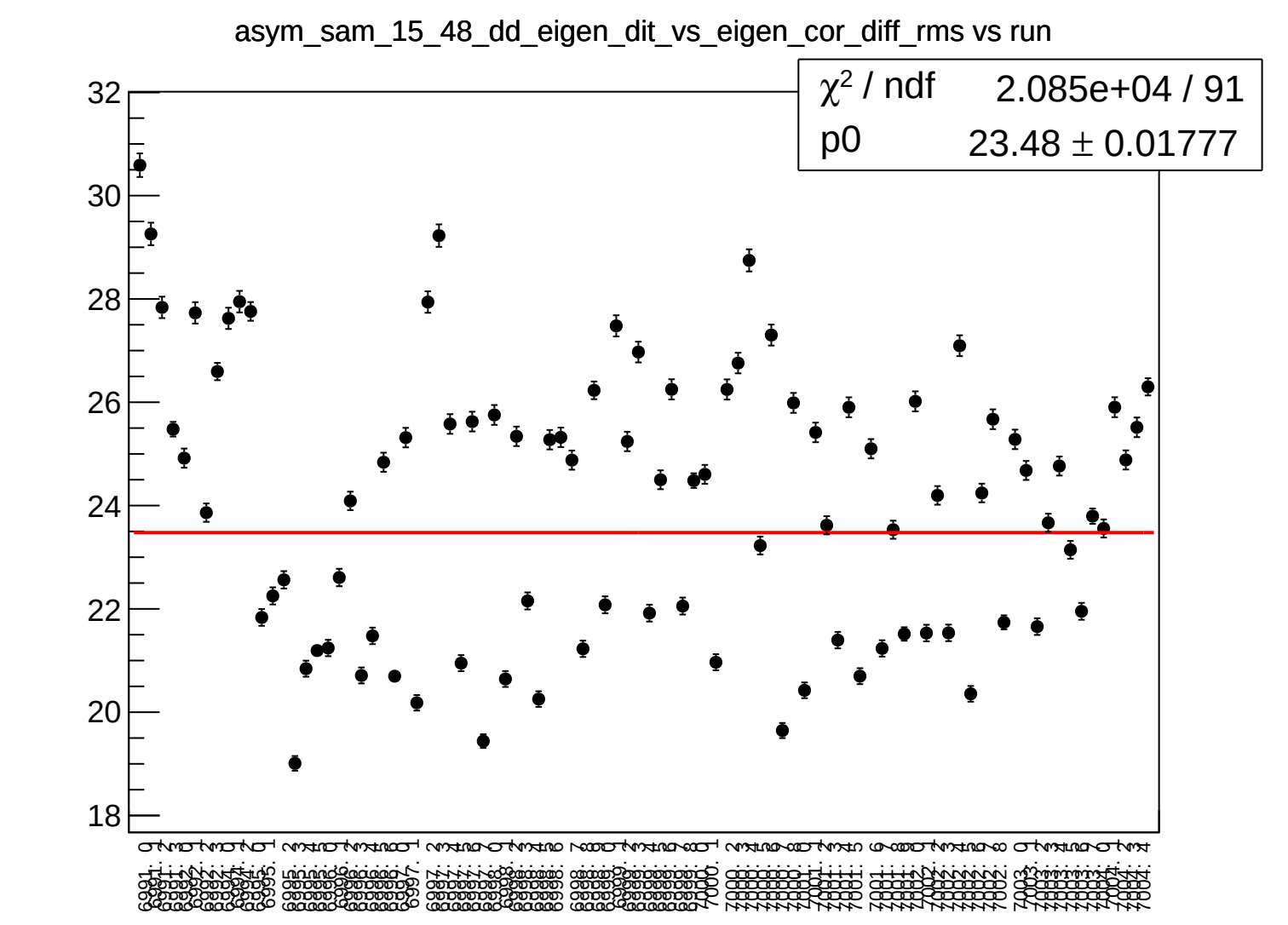

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 101.3 / 91
p0 −2.748e−06 ± 2.2e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 92
Mean 335.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006102
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

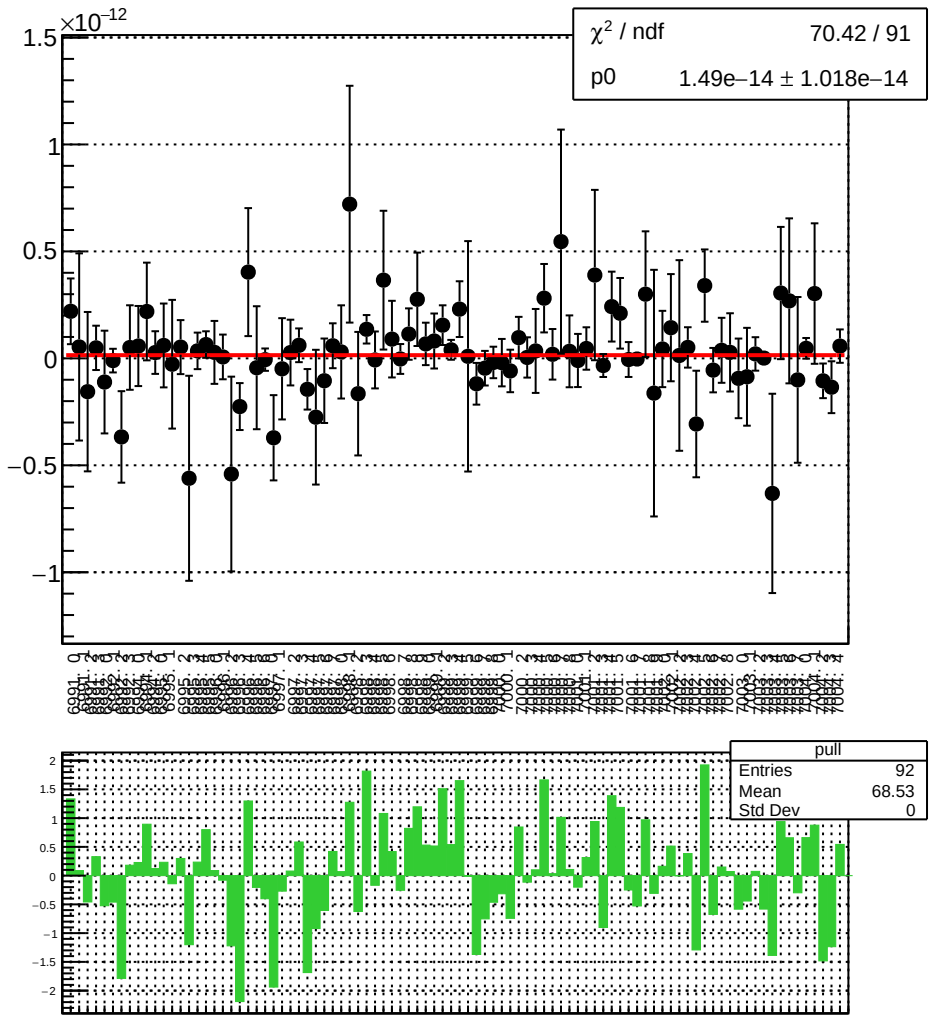

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.46e+04 / 91
p0 0.002035 ± 1.556e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

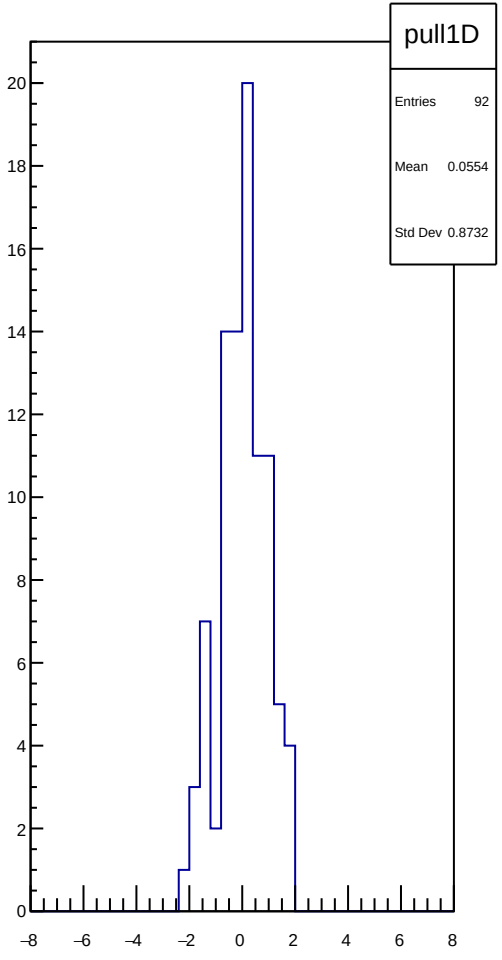

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.14 / 91
p0 −0.02286 ± 0.02514
pull
Entries 92
Mean 357.5
Std Dev 0
pull1D
Entries 92
Mean −0.01459
Std Dev 1.006

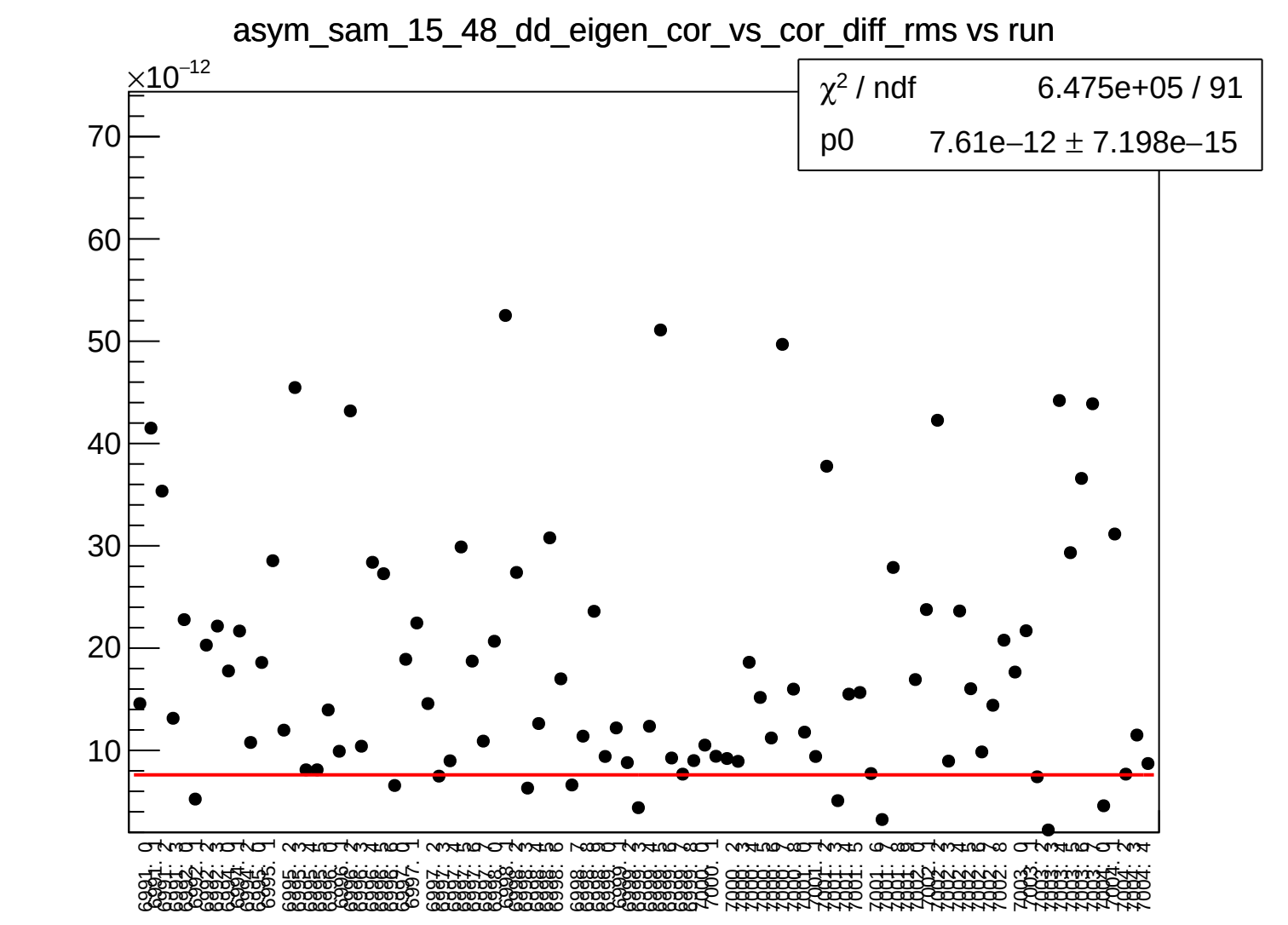

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.085e+04 / 91
p0 23.48 ± 0.01777
32
30
28
26
24
22
20
18

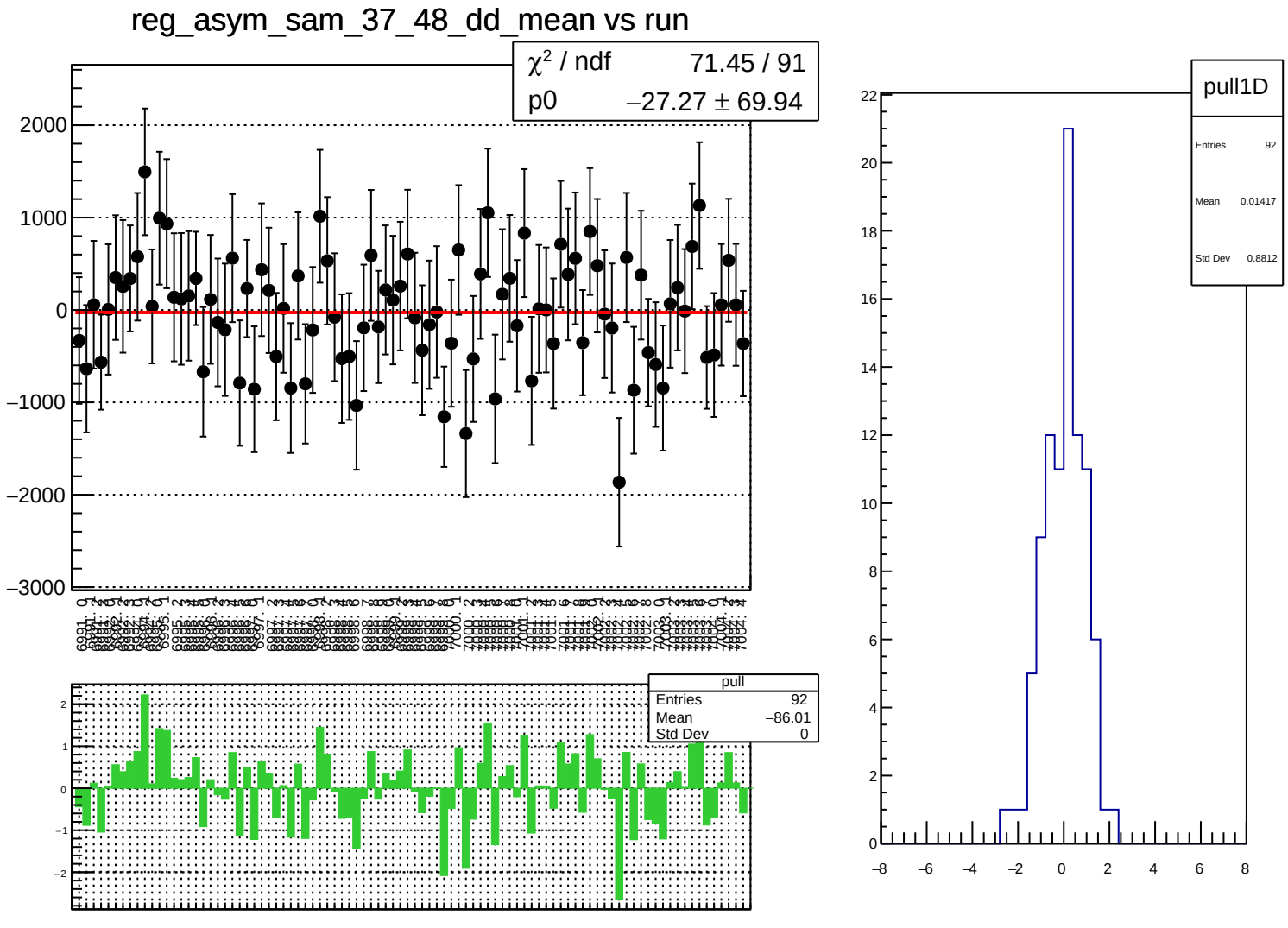

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.14 / 91
p0 −0.02286 ± 0.02514
pull
Entries 92
Mean 357.5
Std Dev 0
pull1D
Entries 92
Mean −0.01459
Std Dev 1.006

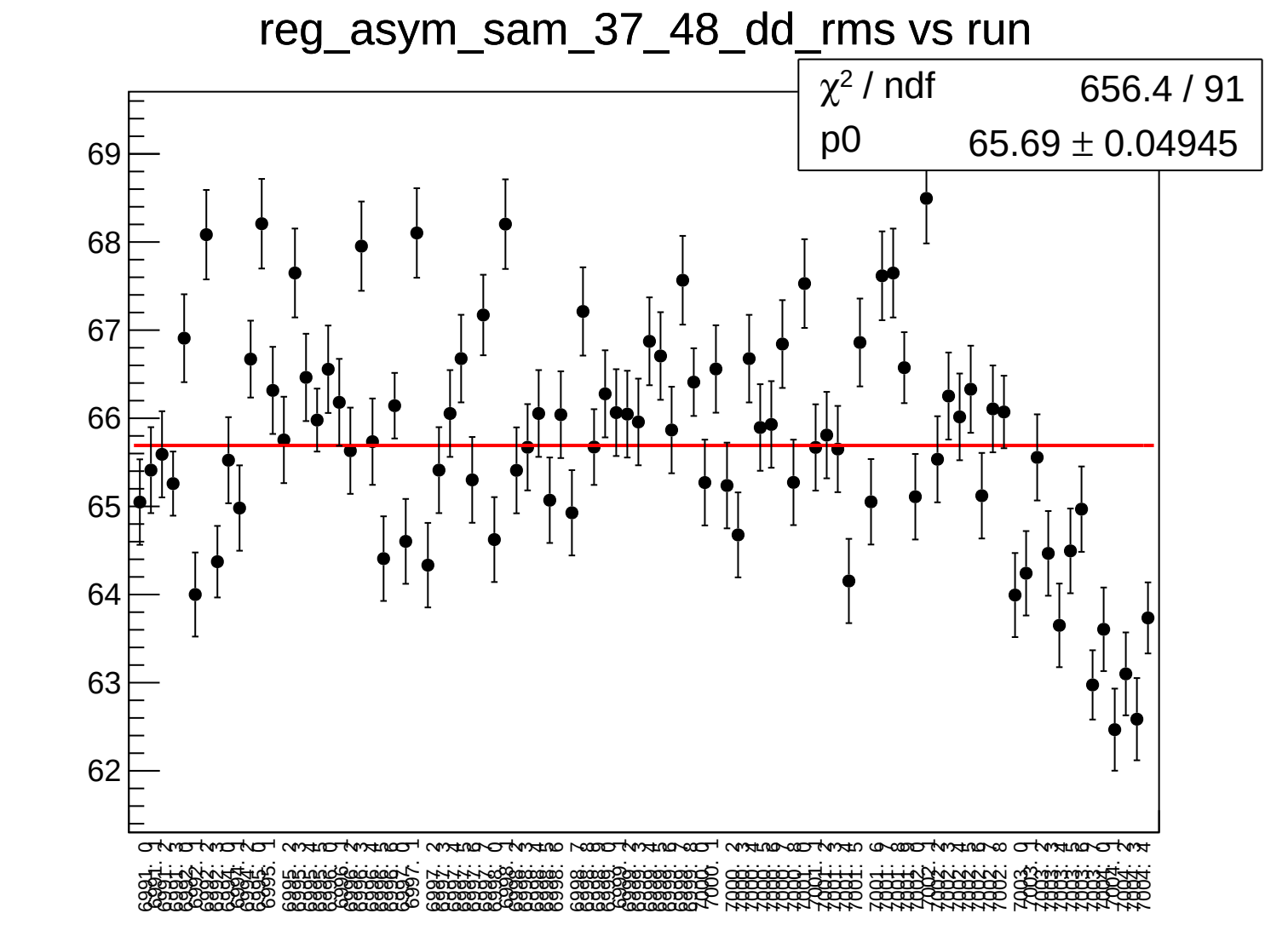

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.085e+04 / 91
p0 23.48 ± 0.01777
32
30
28
26
24
22
20
18

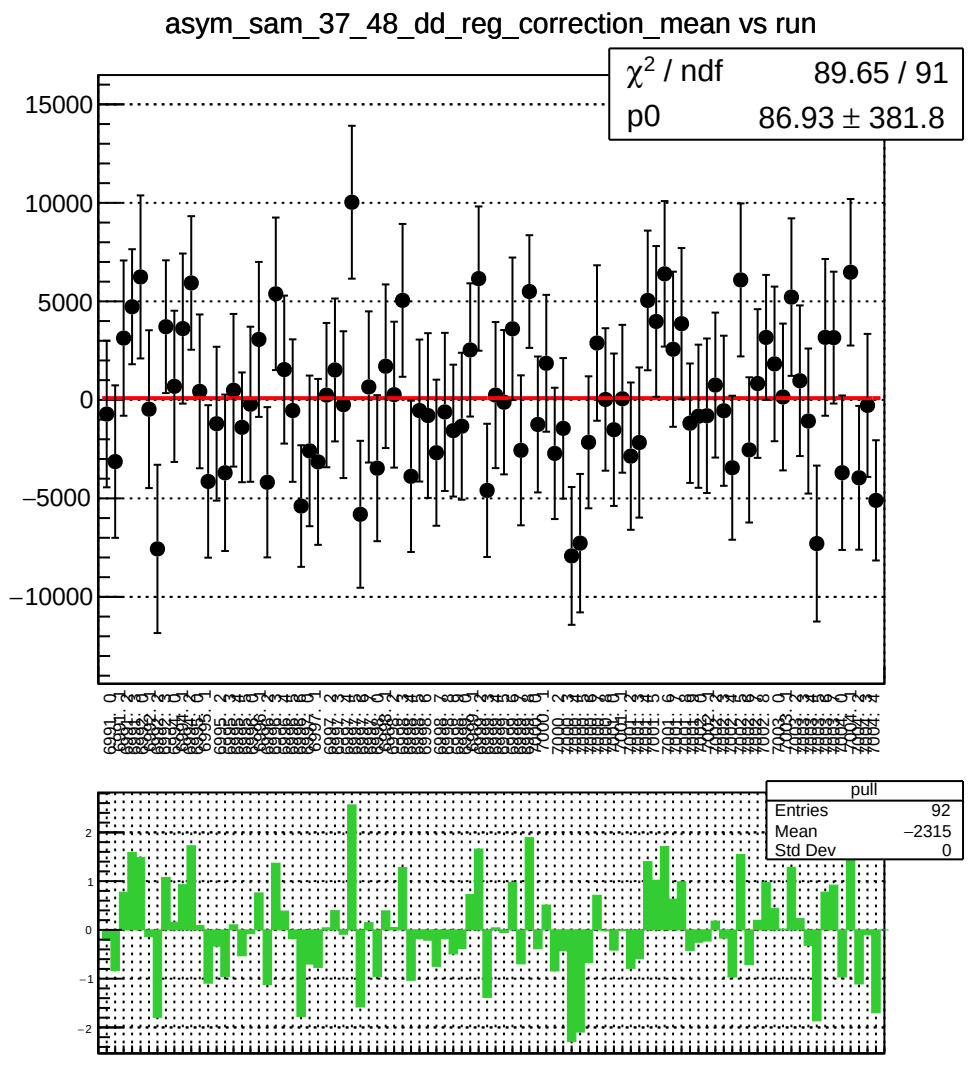

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.42 / 91
p0 1.49e−14 ± 1.018e−14
pull
Entries 92
Mean 68.53
Std Dev 0

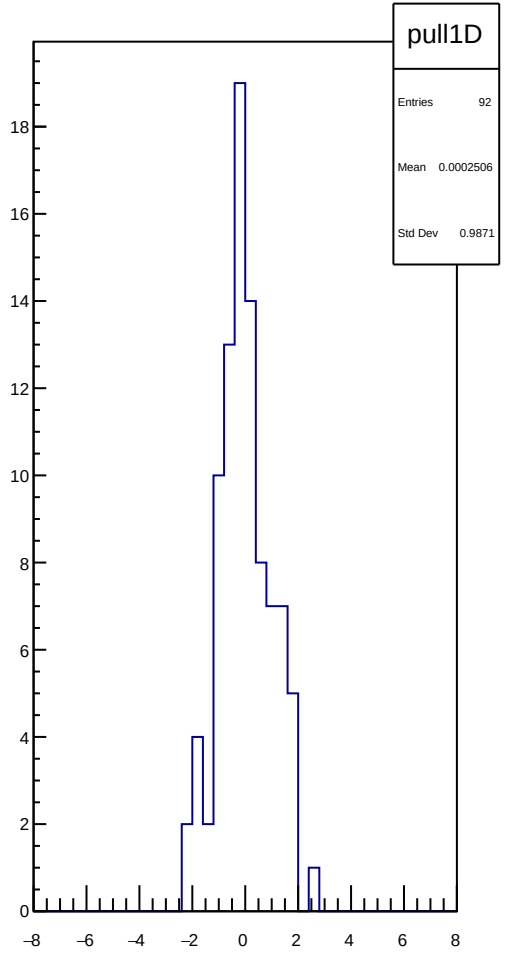

pull1D
Entries 92
Mean 0.0554
Std Dev 0.8732

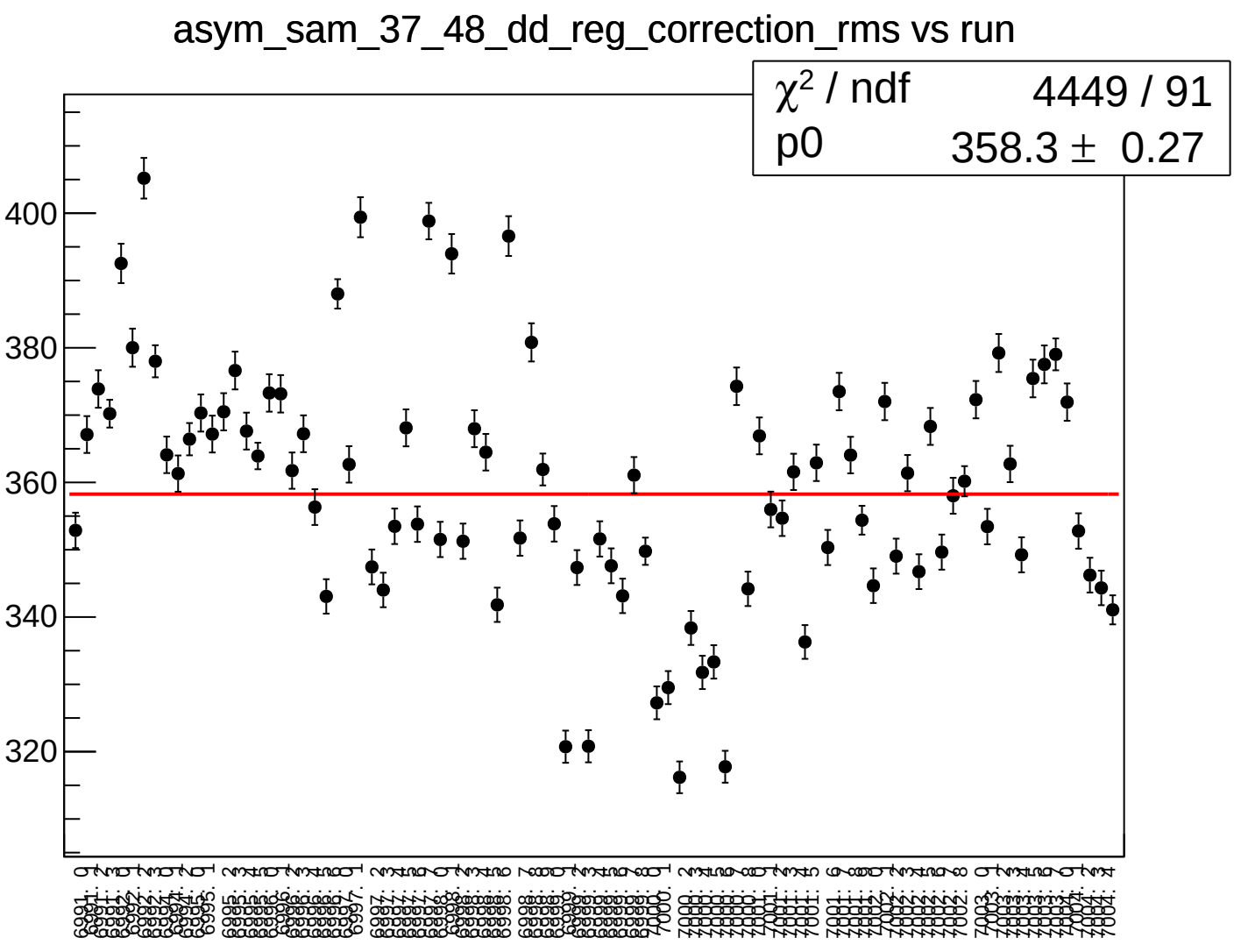

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 6.475e+05 / 91
p0 7.61e−12 ± 7.198e−15

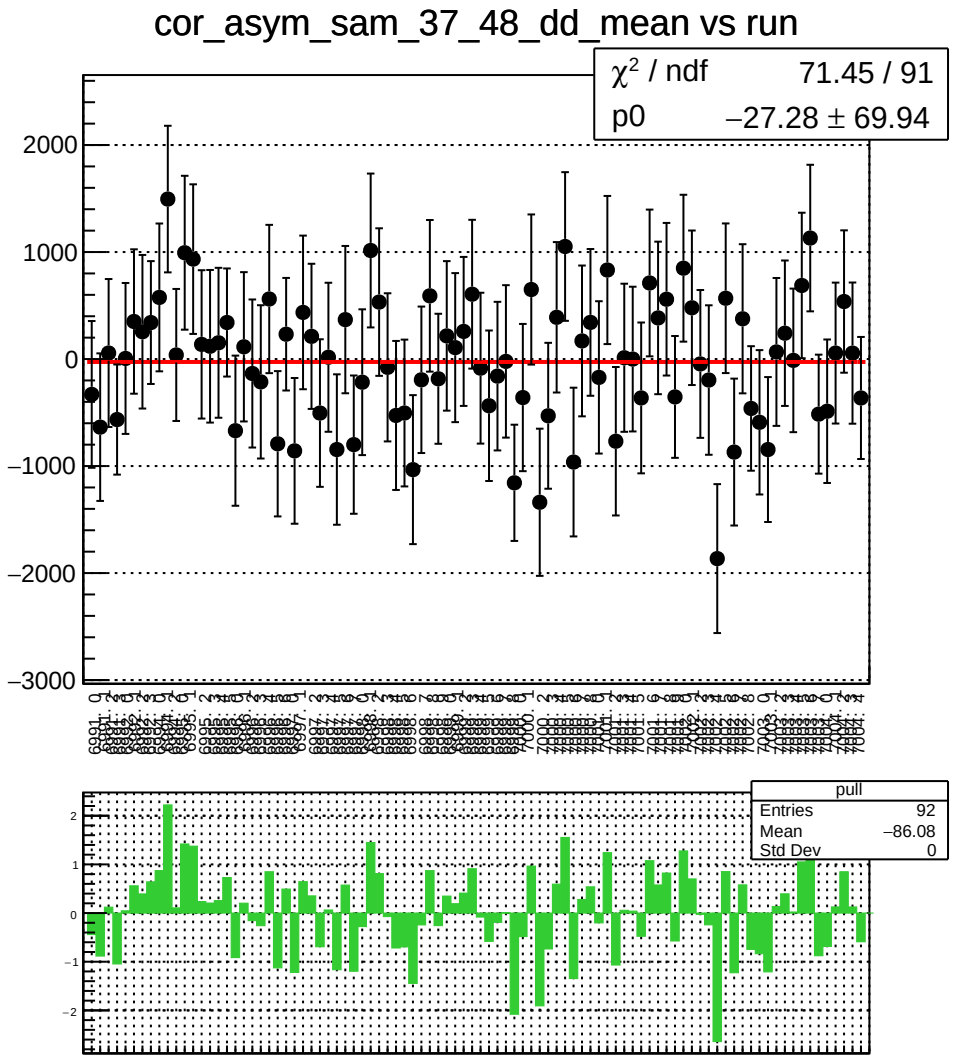

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 71.45 / 91
p0 −27.27 ± 69.94
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −86.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01417
Std Dev 0.8812
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

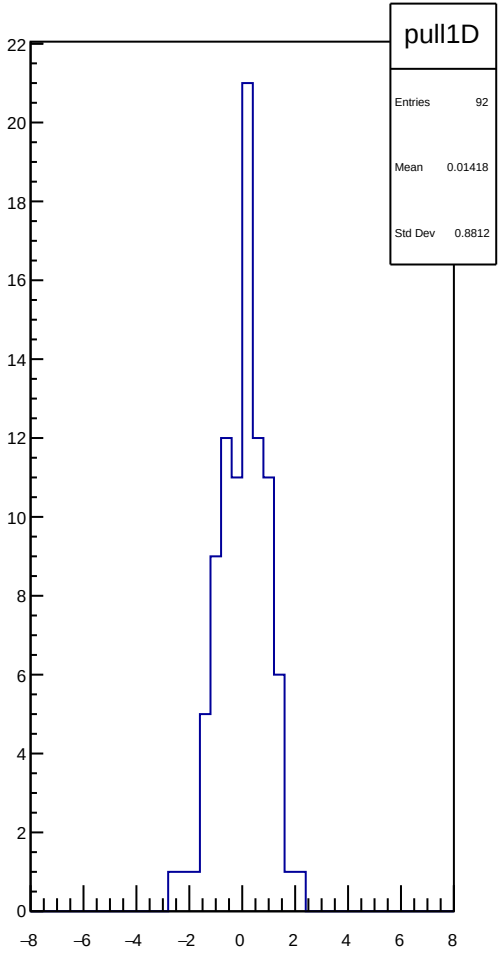

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 656.4 / 91
p0 65.69 ± 0.04945
69
68
67
66
65
64
63
62

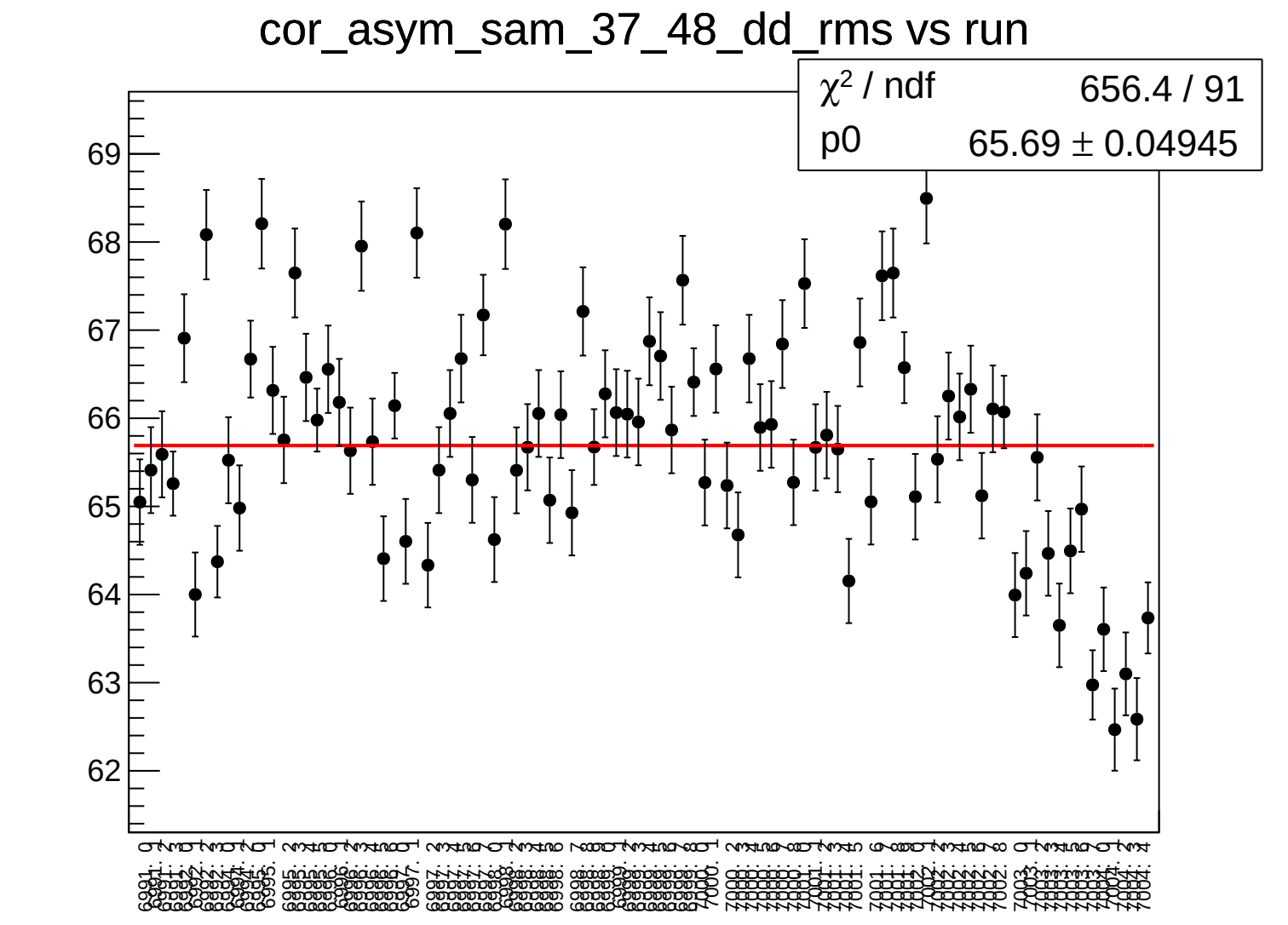

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 89.65 / 91
p0 86.93 ± 381.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −2315
Std Dev 0
2
1
0
−1
−2

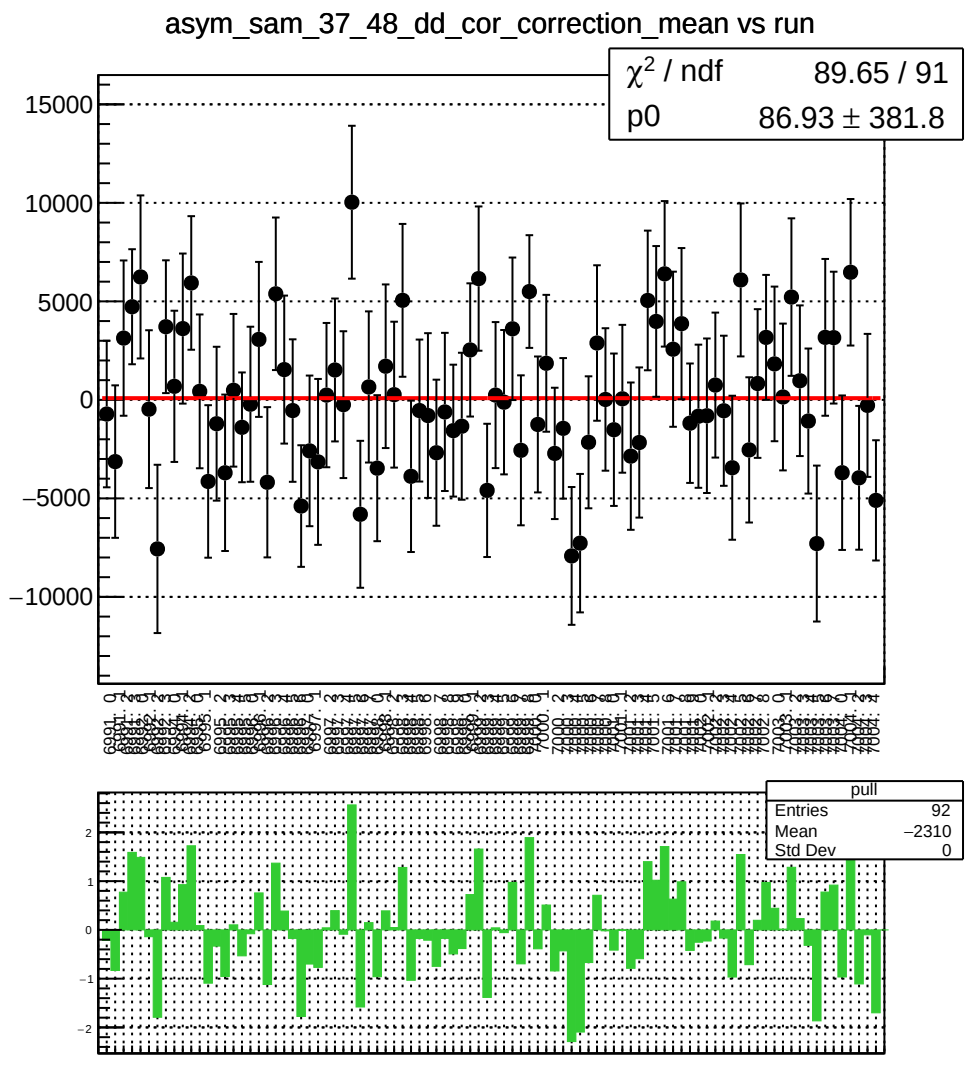

pull1D
Entries 92
Mean 0.0002506
Std Dev 0.9871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

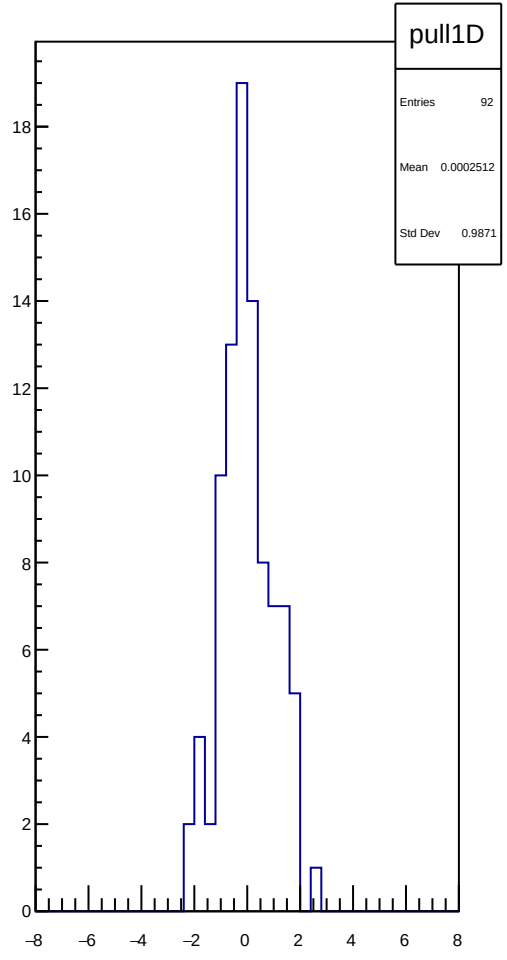

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 4449 / 91
p0 358.3 ± 0.27
400
380
360
340
320

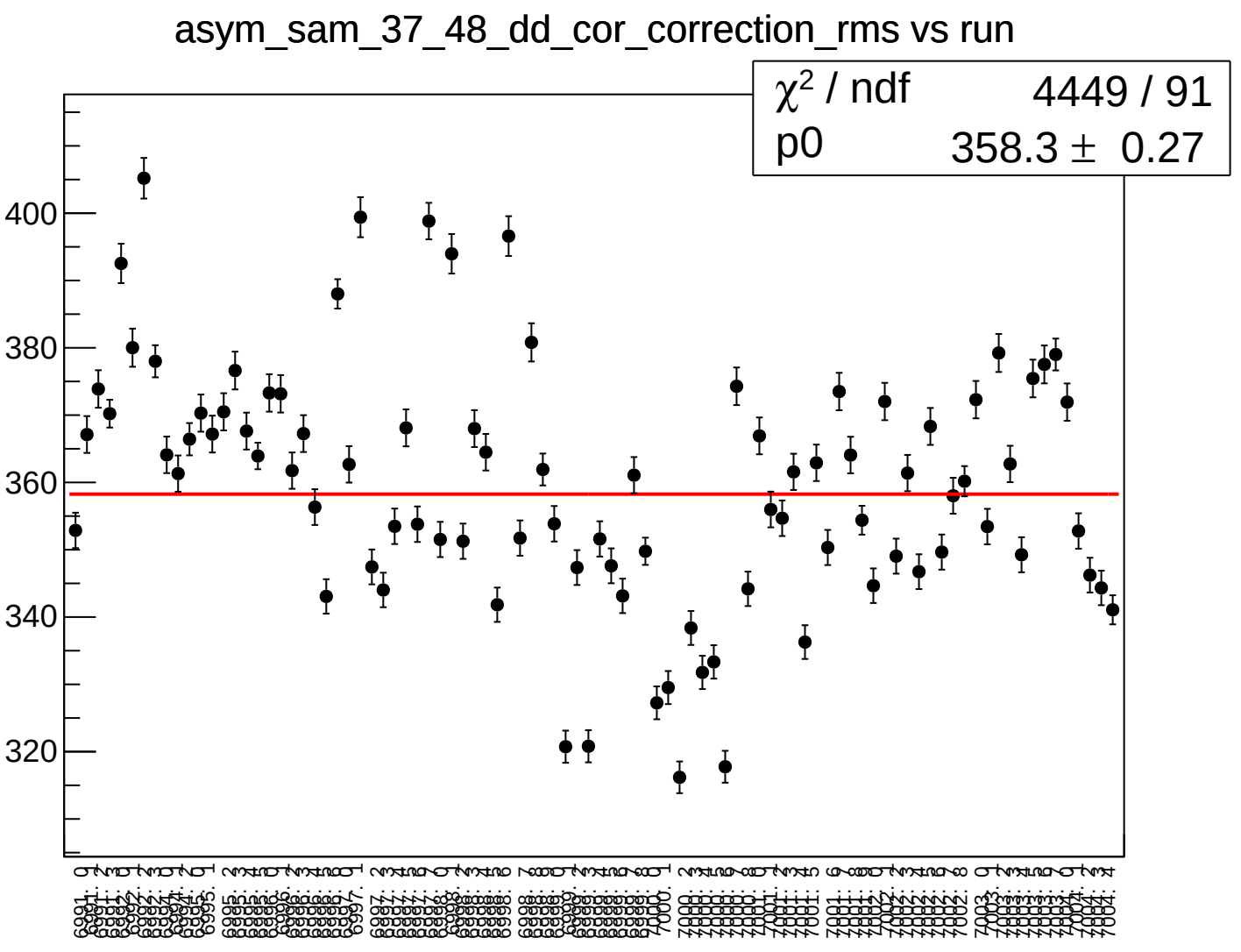

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 71.45 / 91
p0 −27.28 ± 69.94
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −86.08
Std Dev 0
2
1
0
−1
−2

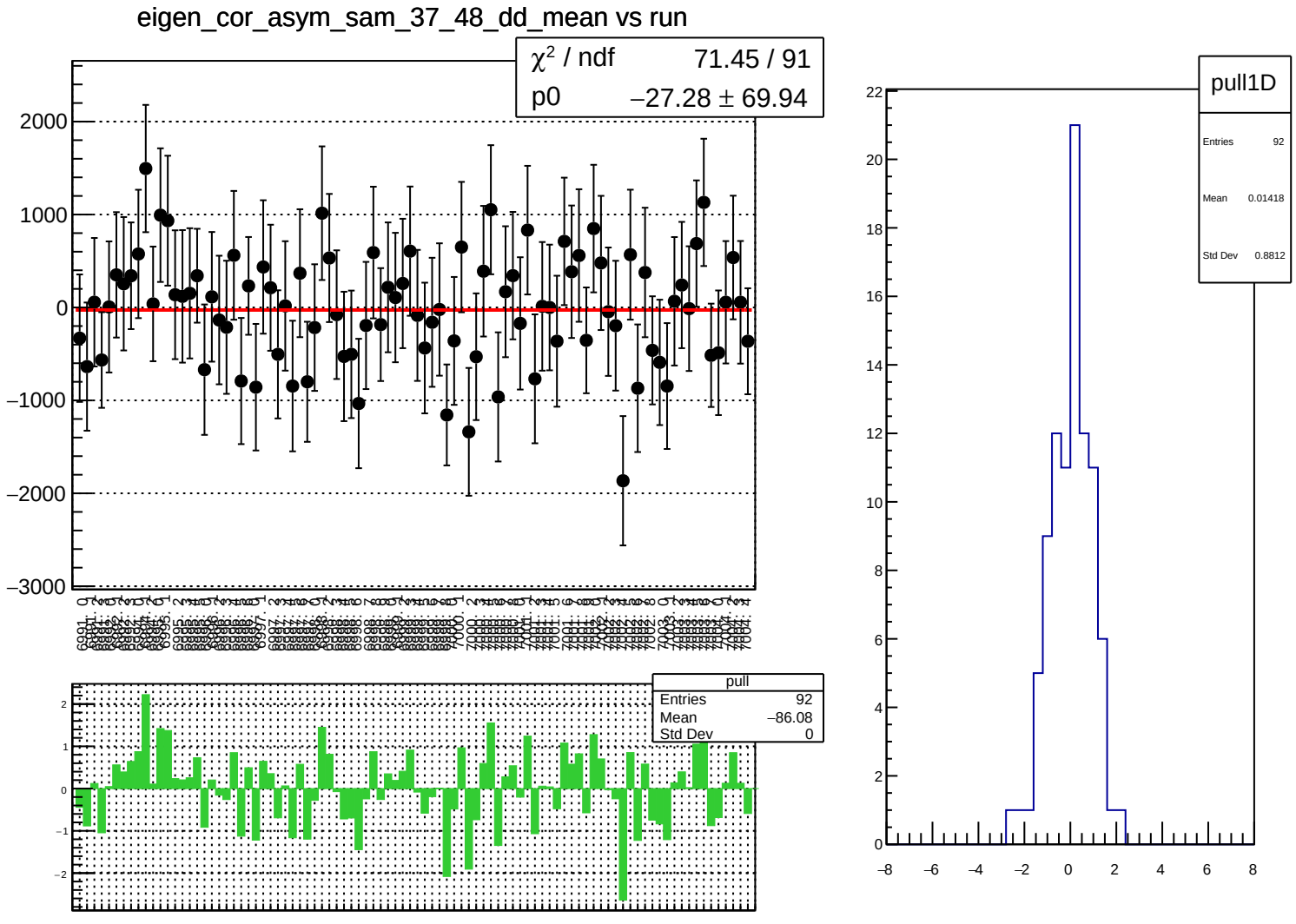

pull1D
Entries 92
Mean 0.01418
Std Dev 0.8812
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

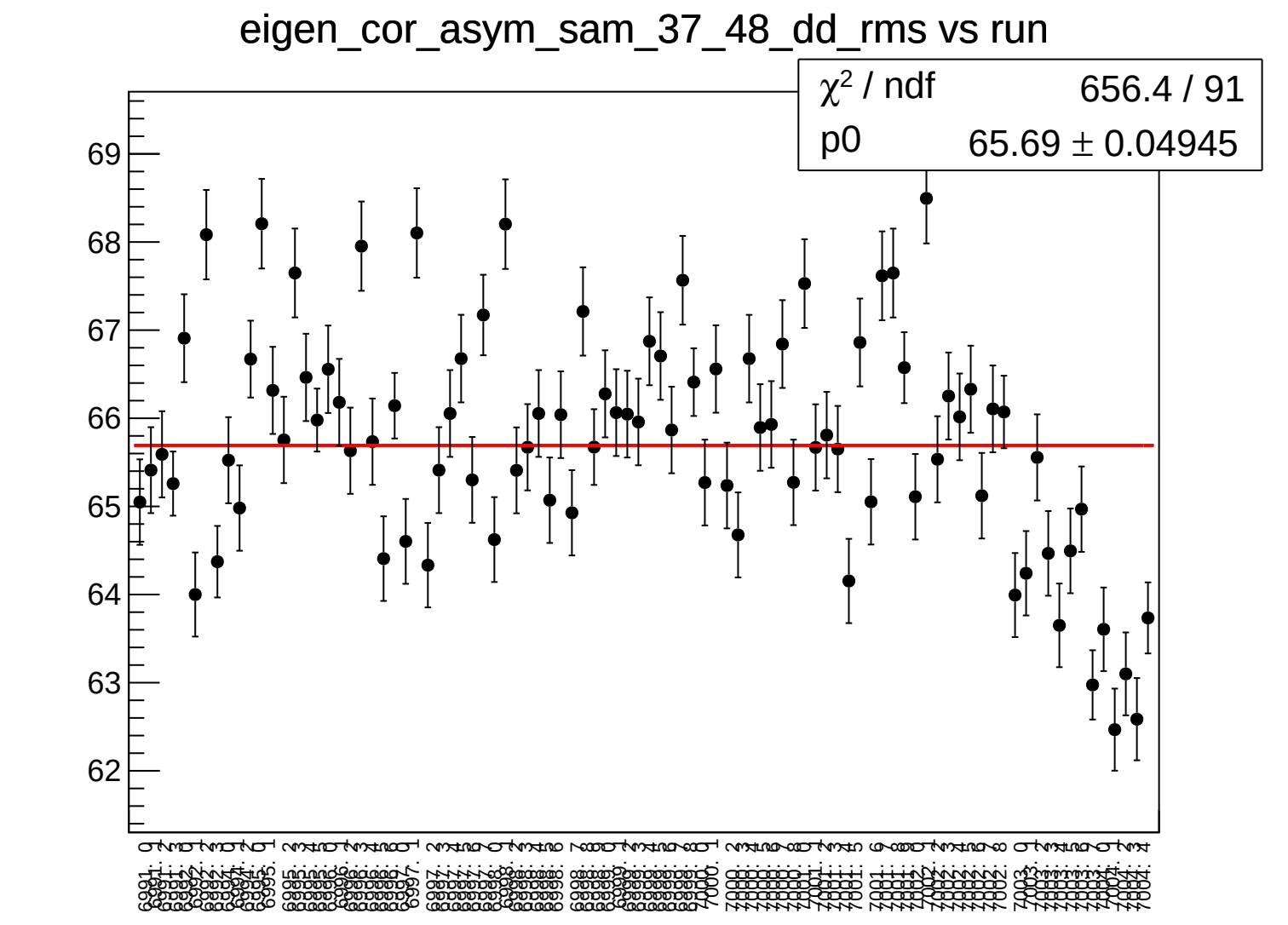

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 656.4 / 91
p0 65.69 ± 0.04945
69
68
67
66
65
64
63
62

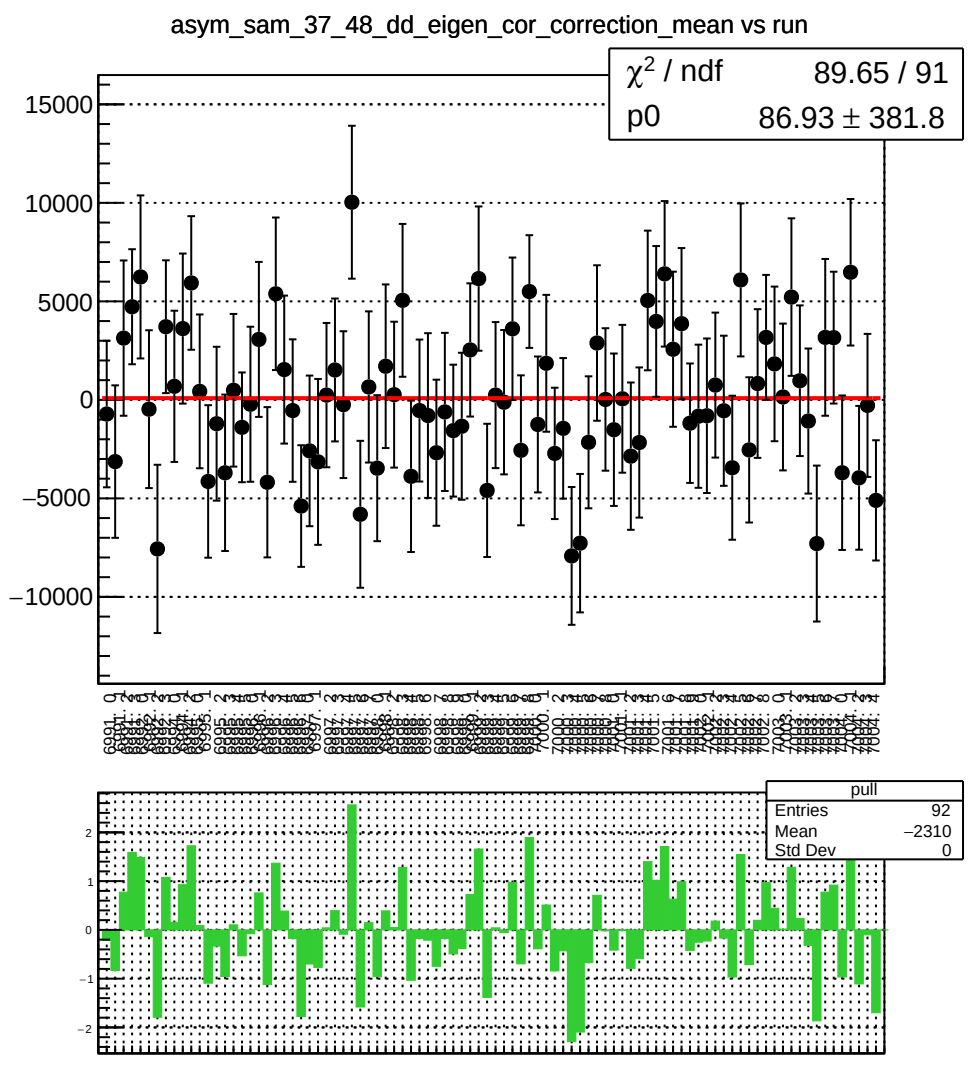

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 89.65 / 91
p0 86.93 ± 381.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −2310
Std Dev 0
2
1
0
−1
−2

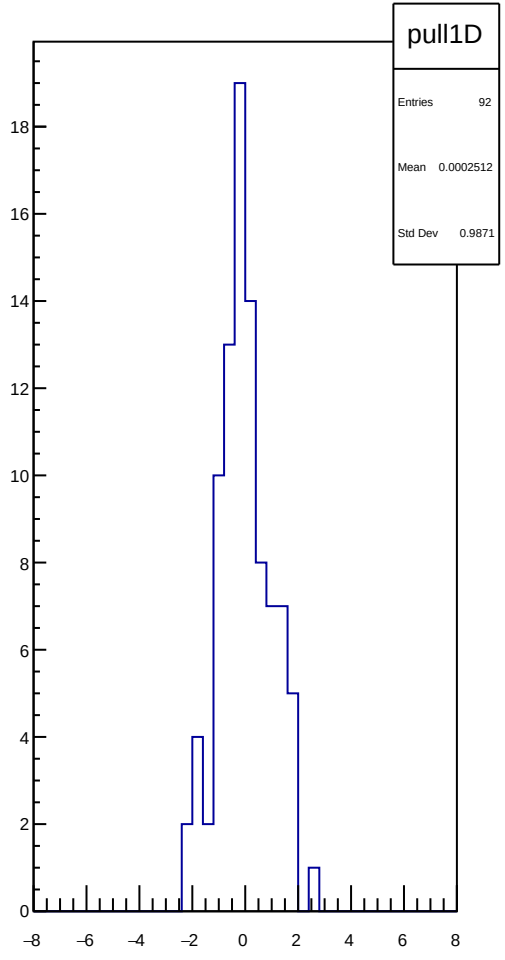

pull1D
Entries 92
Mean 0.0002512
Std Dev 0.9871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

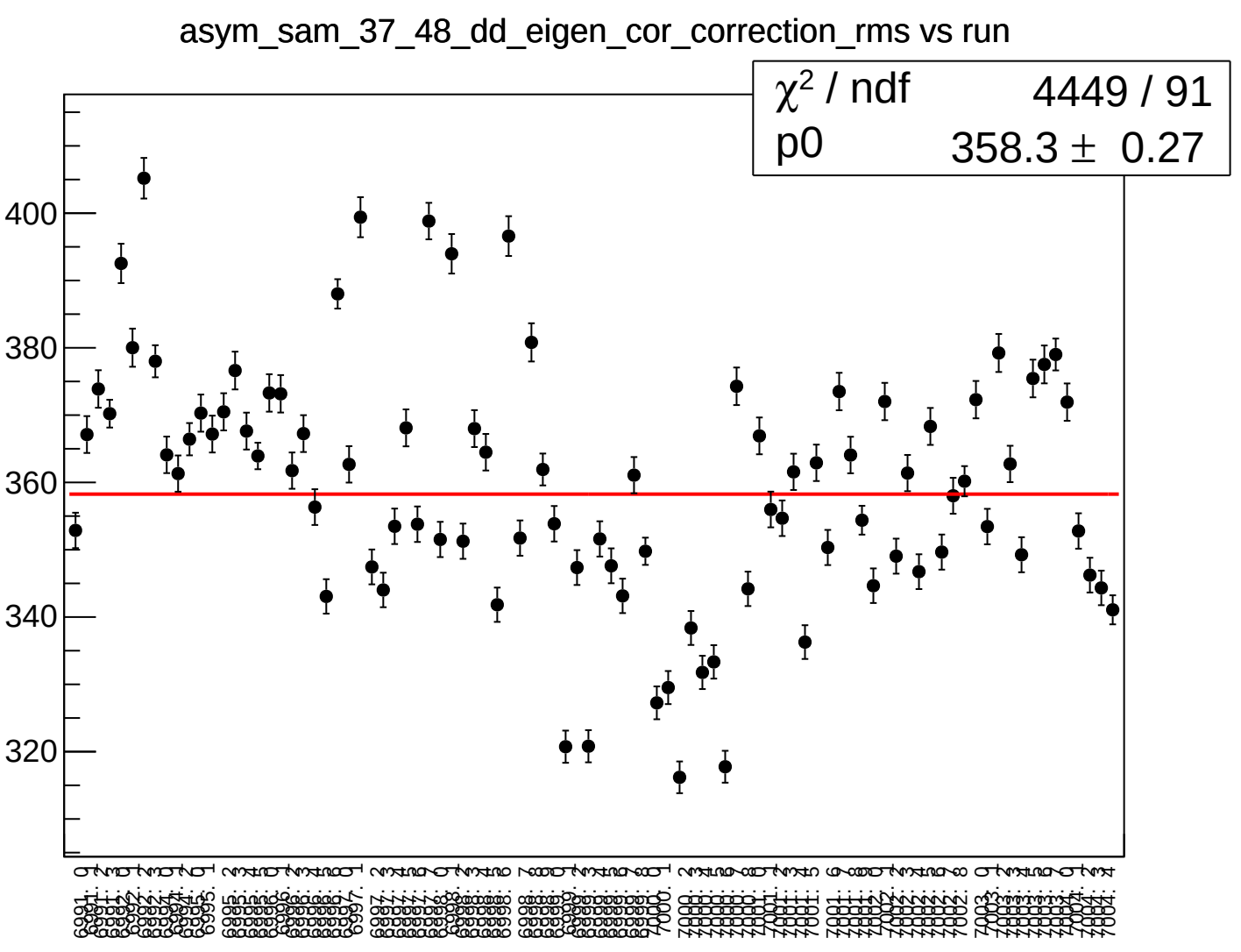

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 4449 / 91
p0 358.3 ± 0.27
400
380
360
340
320

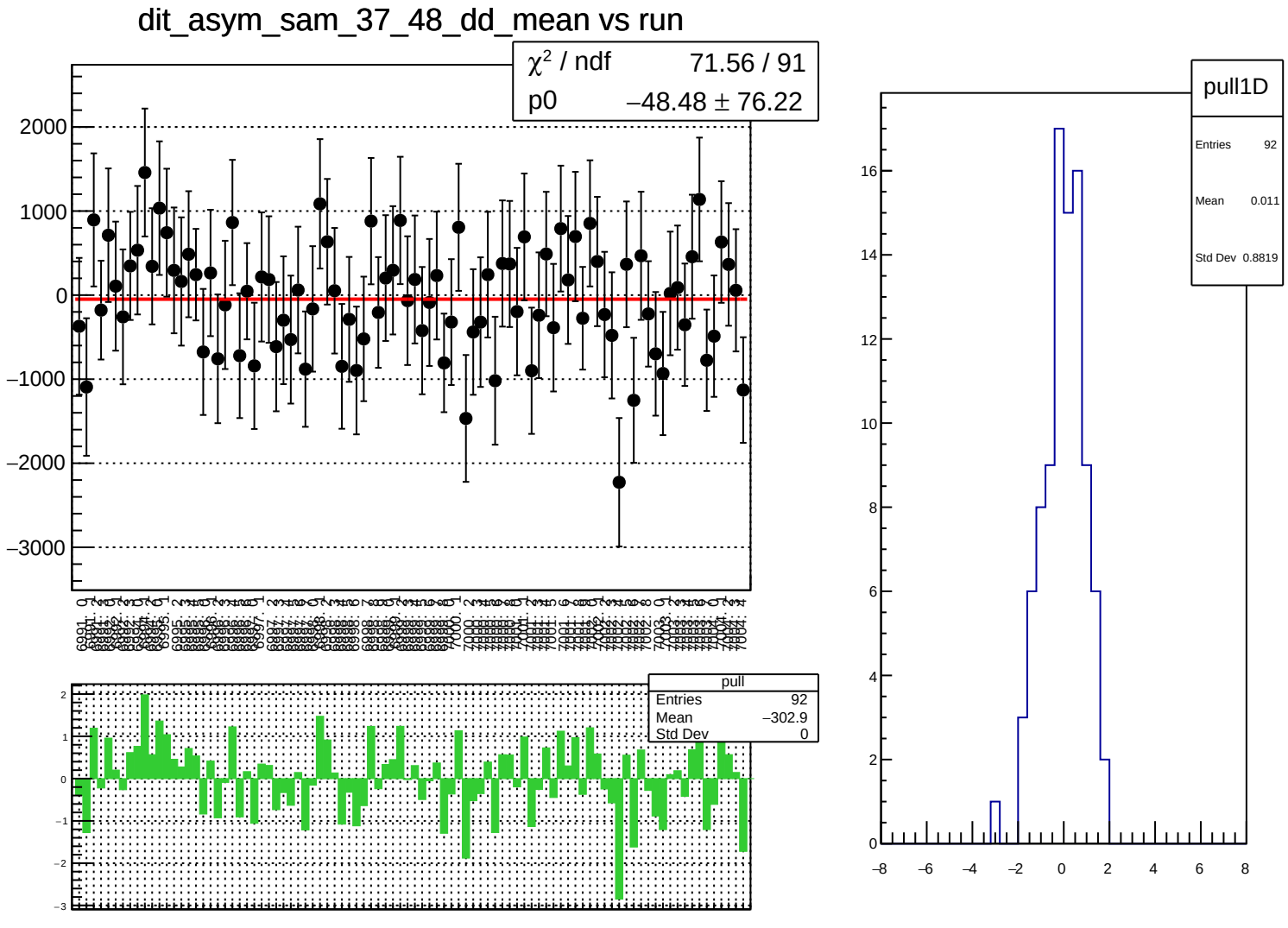

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 71.45 / 91
p0 −27.28 ± 69.94
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −86.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01418
Std Dev 0.8812
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

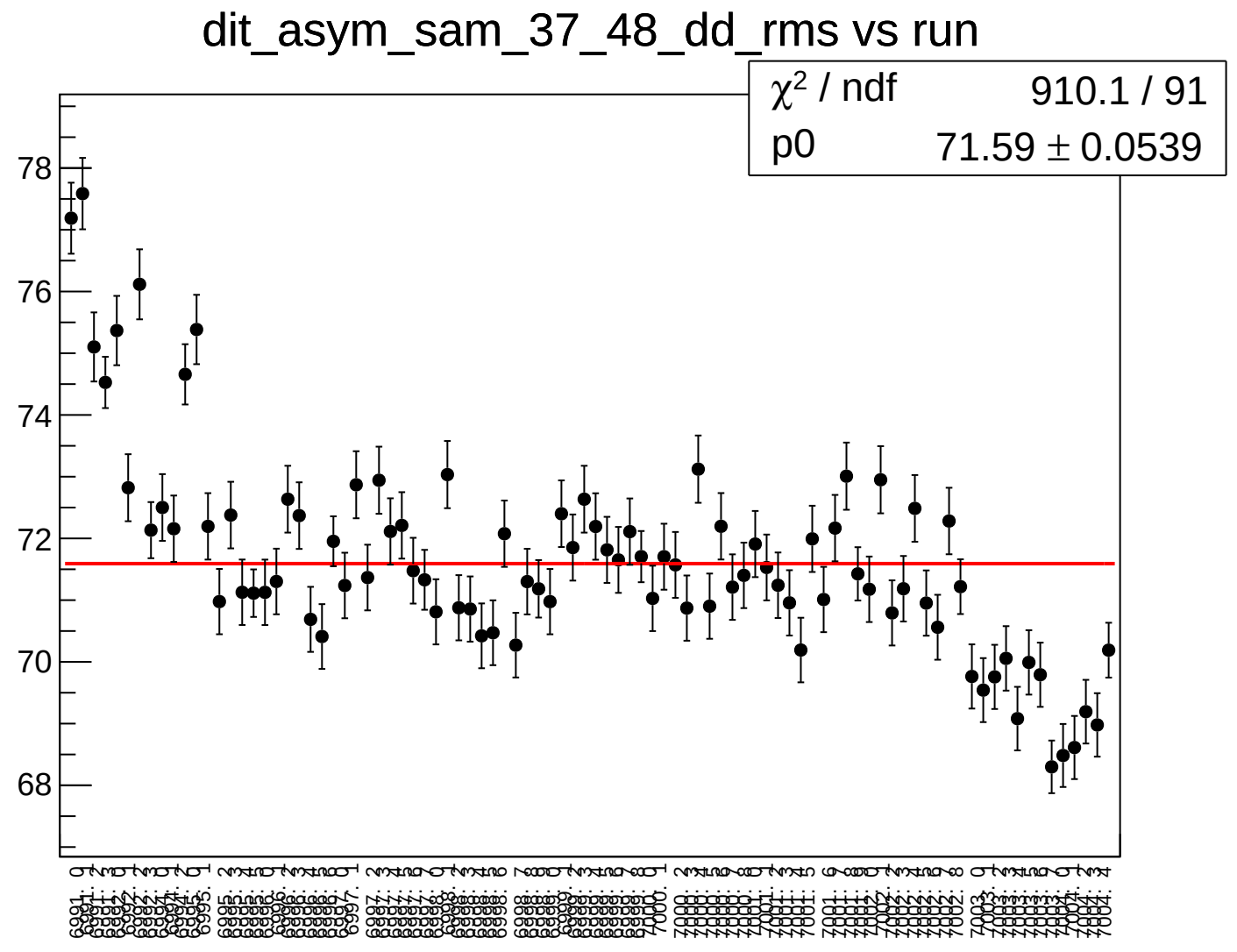

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 656.4 / 91
p0 65.69 ± 0.04945
69
68
67
66
65
64
63
62

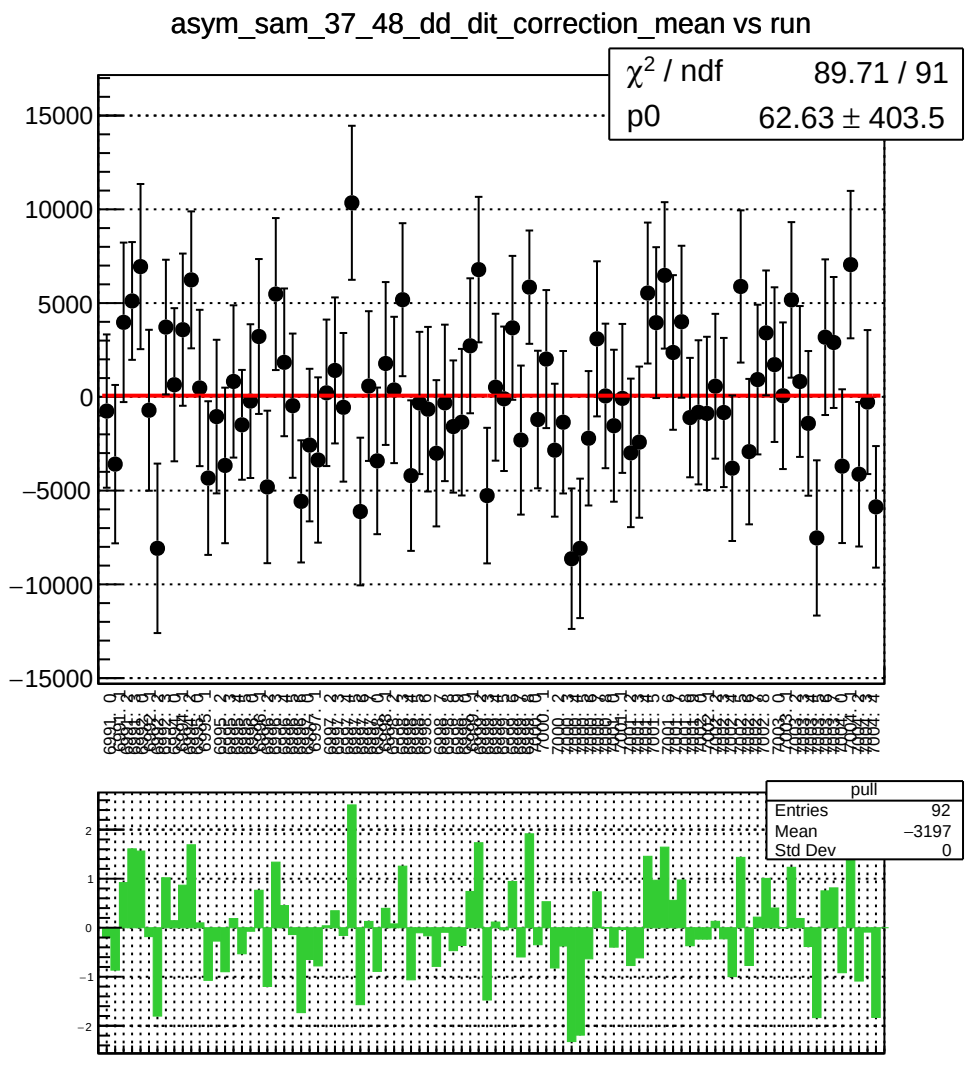

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.65 / 91
p0 86.93 ± 381.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −2310
Std Dev 0
2
1
0
−1
−2

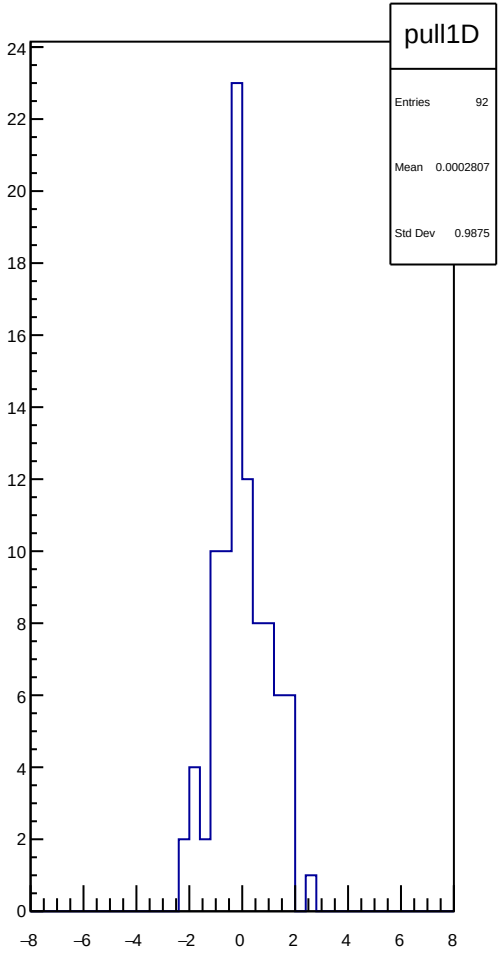

pull1D
Entries 92
Mean 0.0002512
Std Dev 0.9871
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

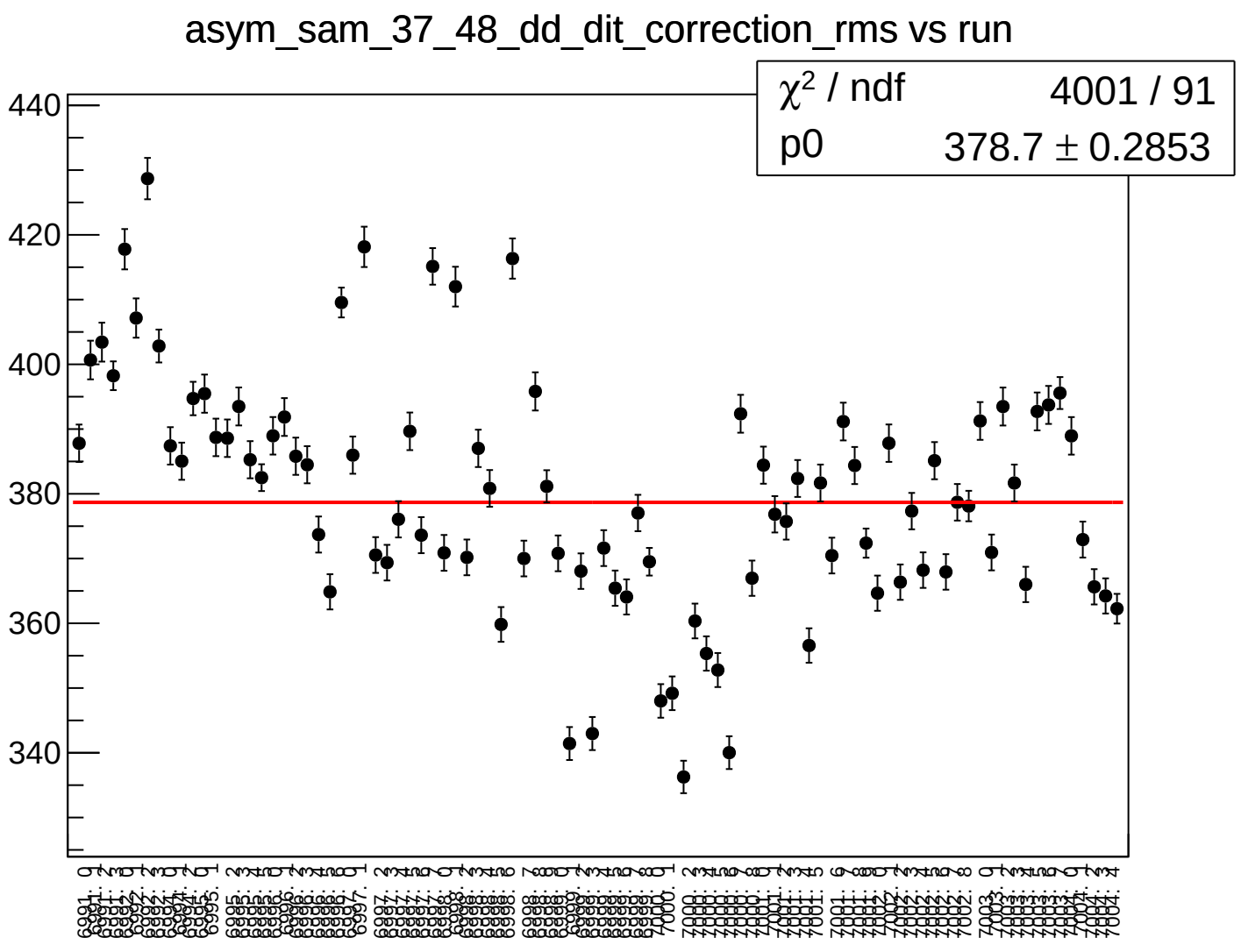

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4449 / 91
p0 358.3 ± 0.27
400
380
360
340
320

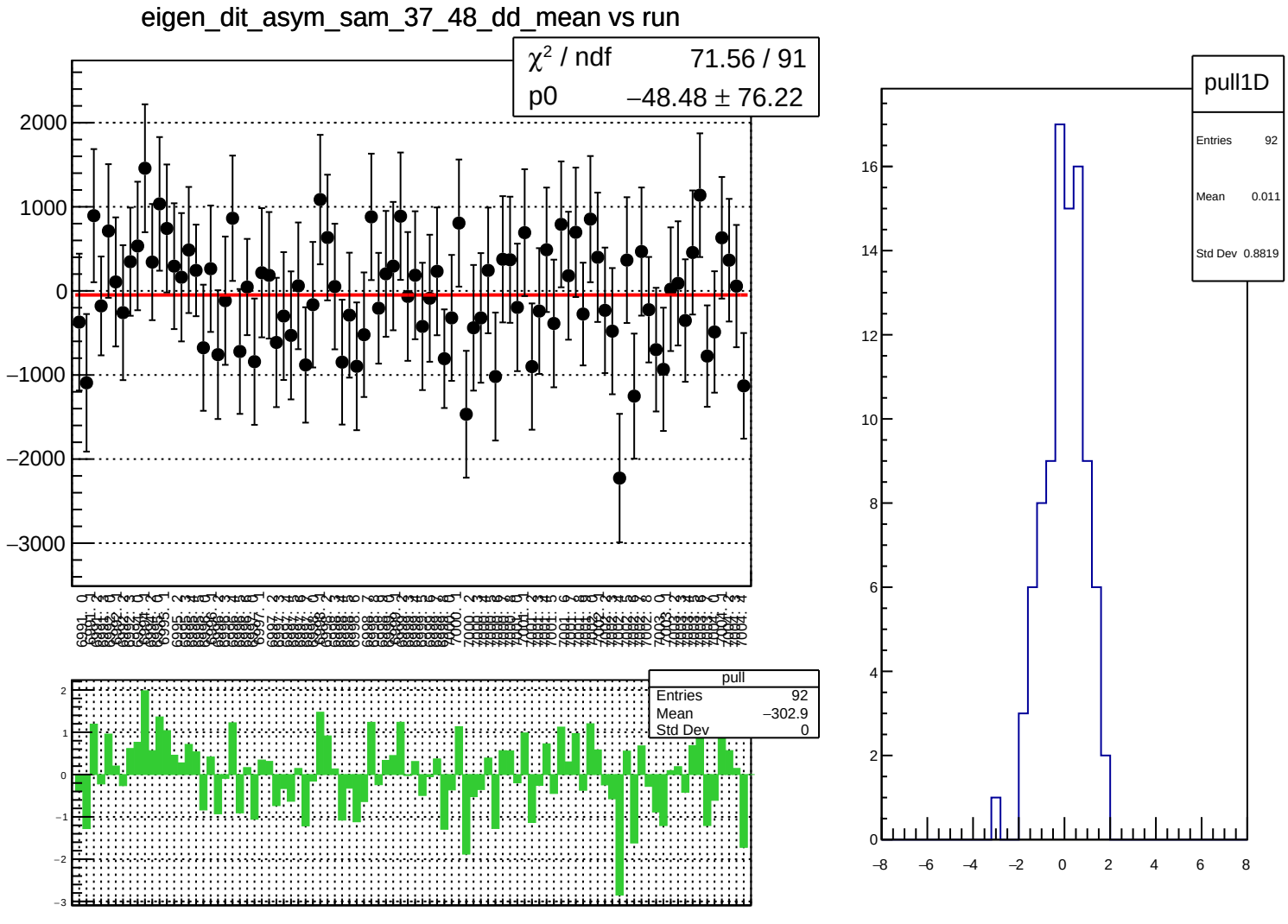

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 71.56 / 91
p0 −48.48 ± 76.22
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −302.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.011
Std Dev 0.8819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

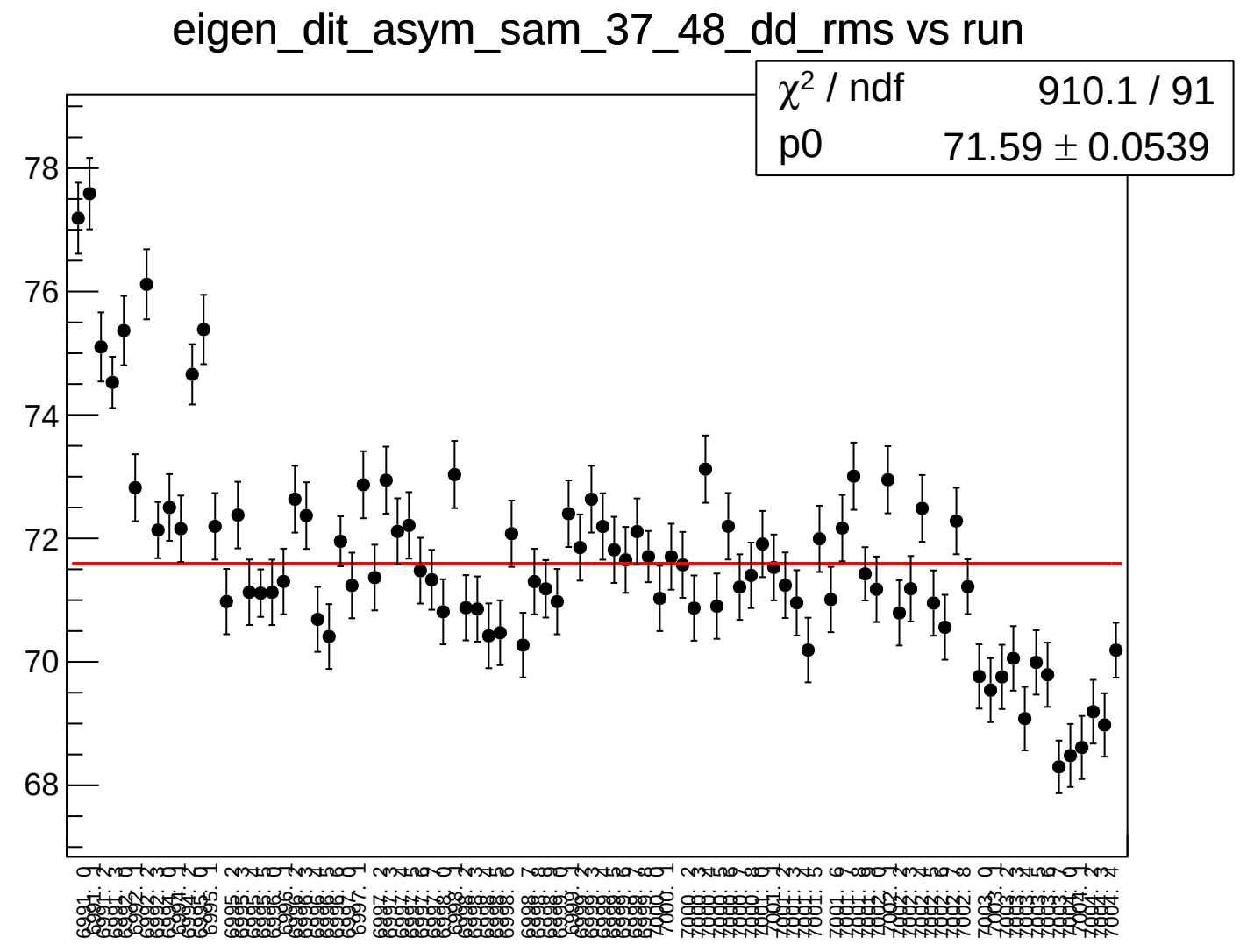

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 910.1 / 91
p0 71.59 ± 0.0539
78
76
74
72
70
68

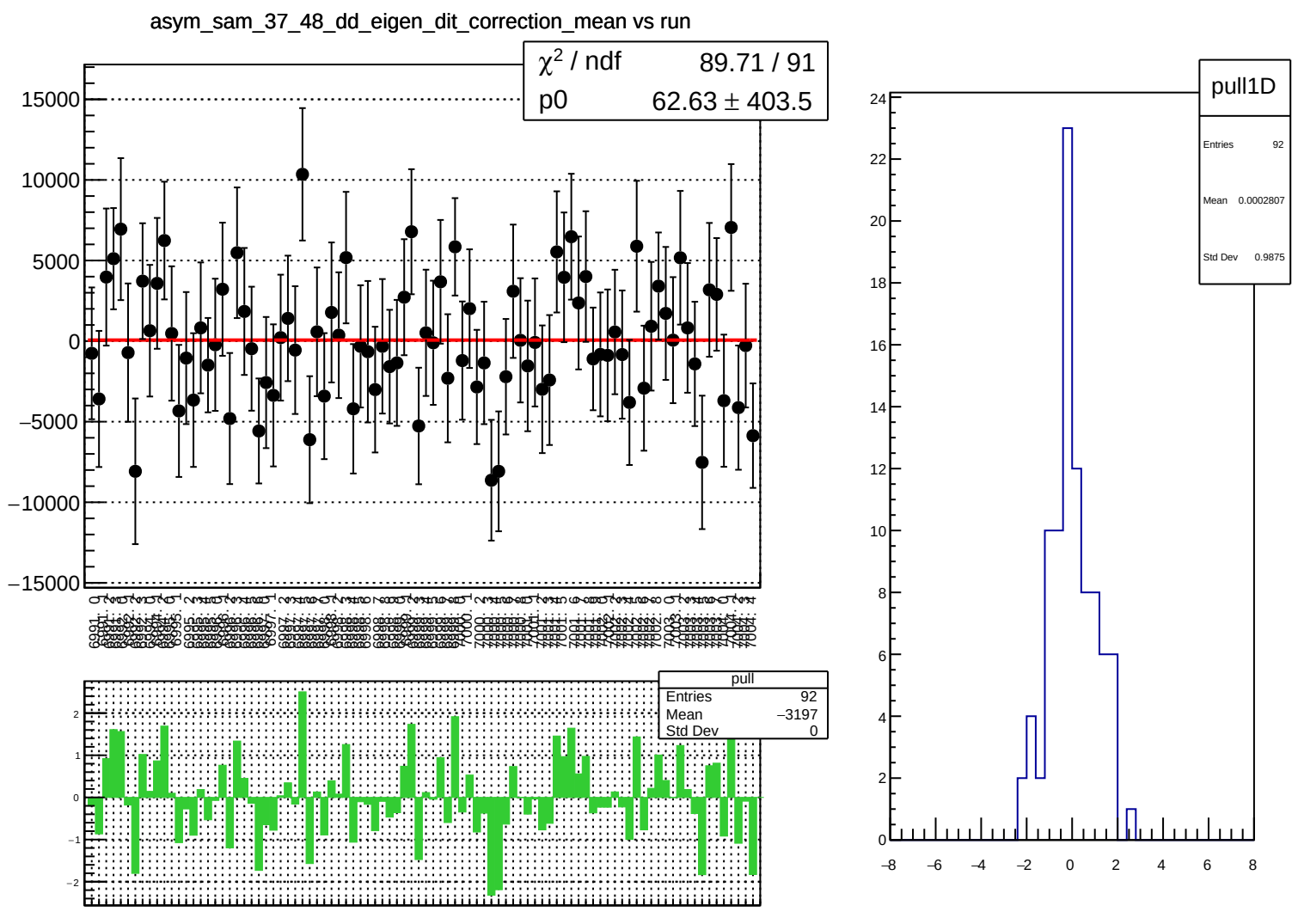

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 89.71 / 91
p0 62.63 ± 403.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −3197
Std Dev 0
2
1
0
−1
−2

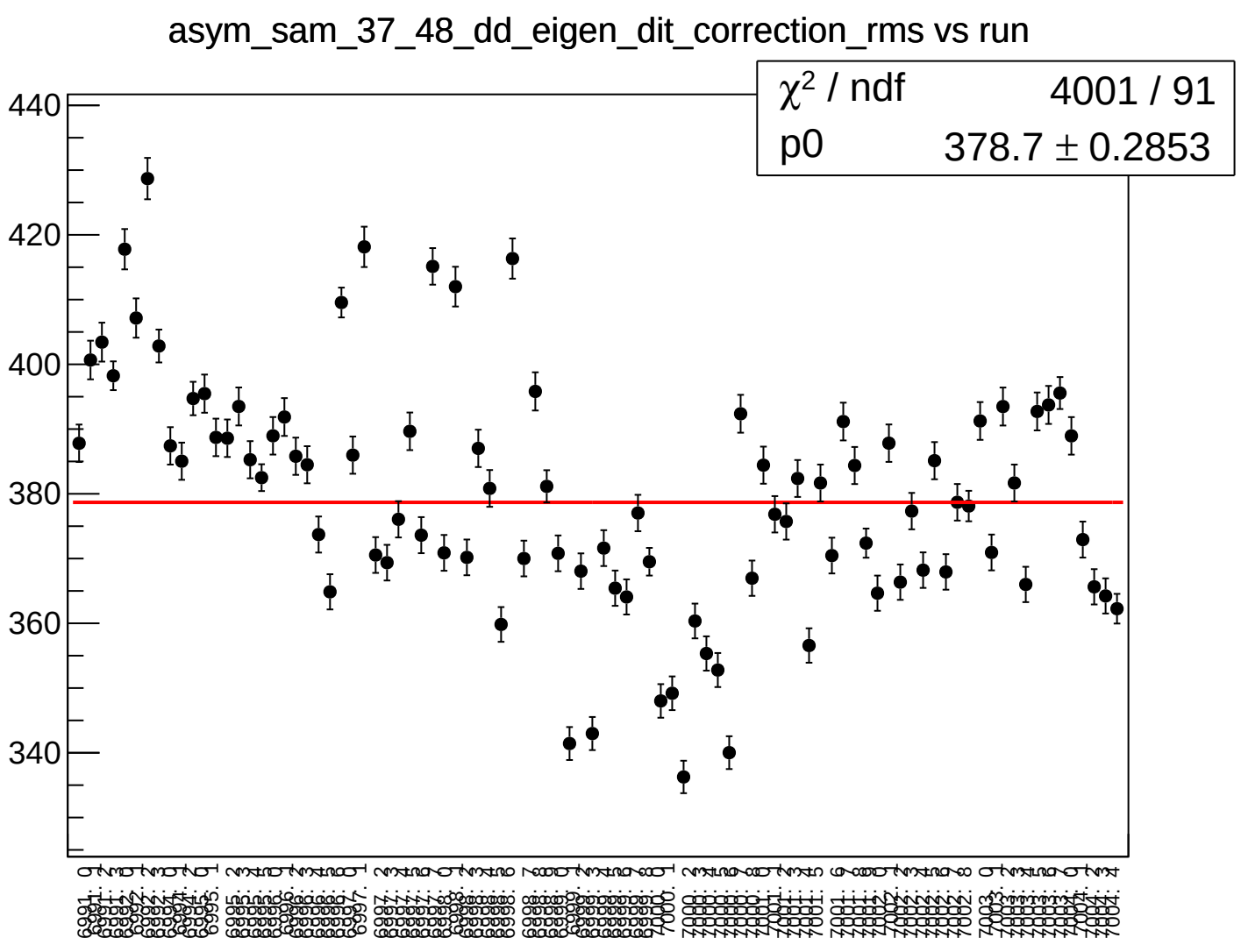

pull1D
Entries 92
Mean 0.0002807
Std Dev 0.9875
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

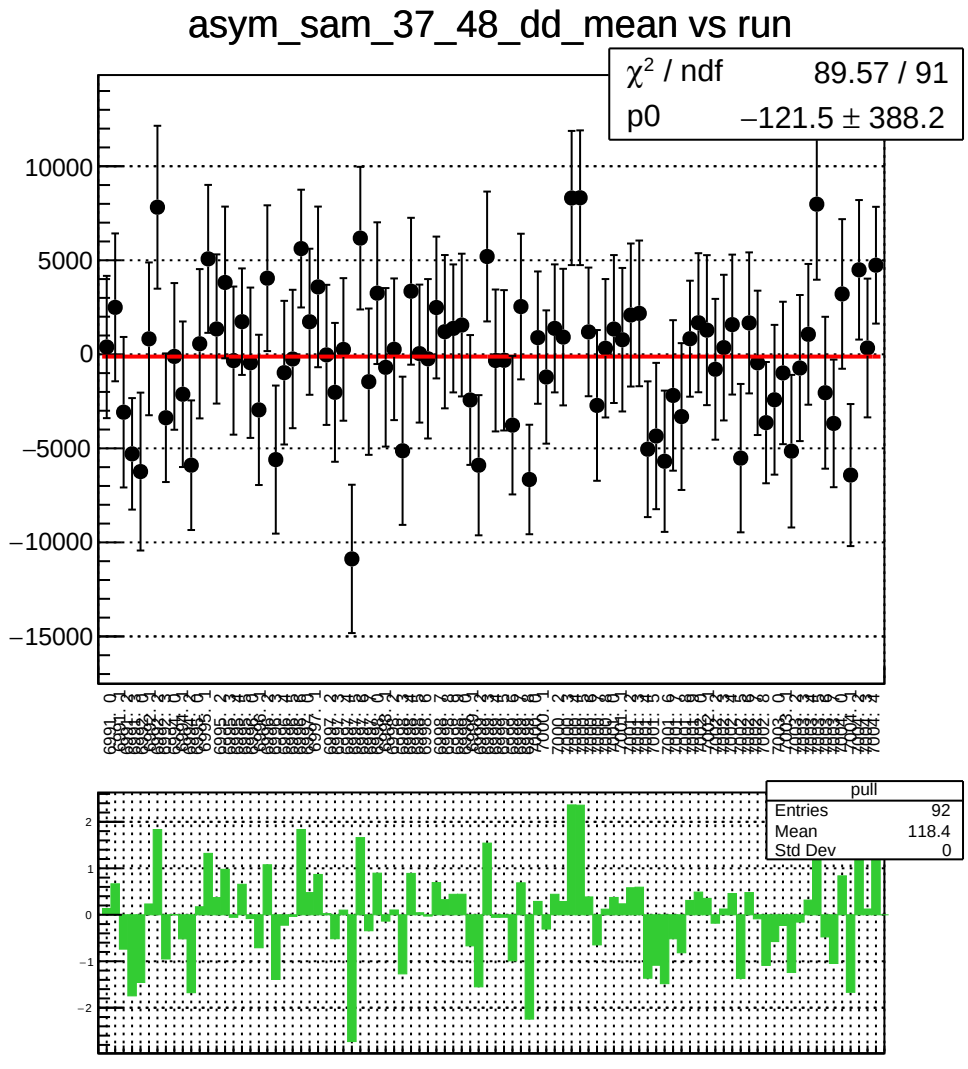

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 4001 / 91
p0 378.7 ± 0.2853
440
420
400
380
360
340

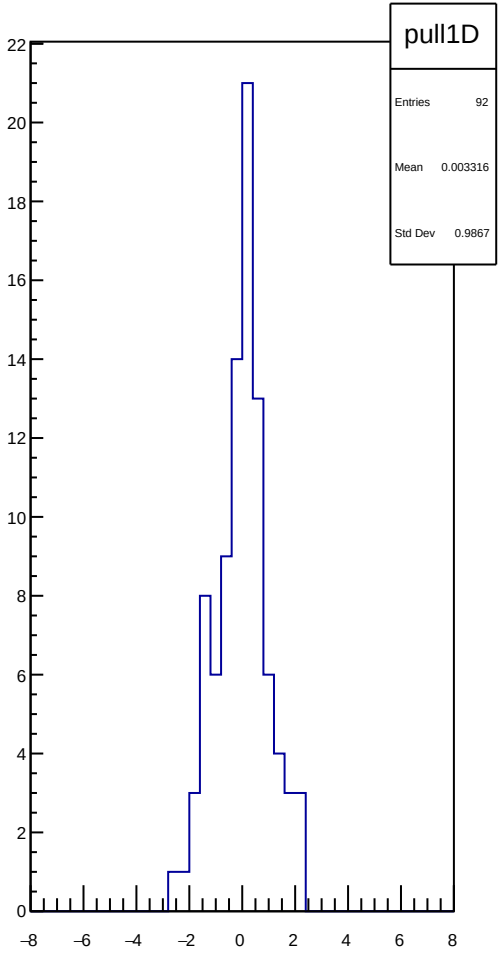

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 71.56 / 91
p0 −48.48 ± 76.22
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −302.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.011
Std Dev 0.8819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

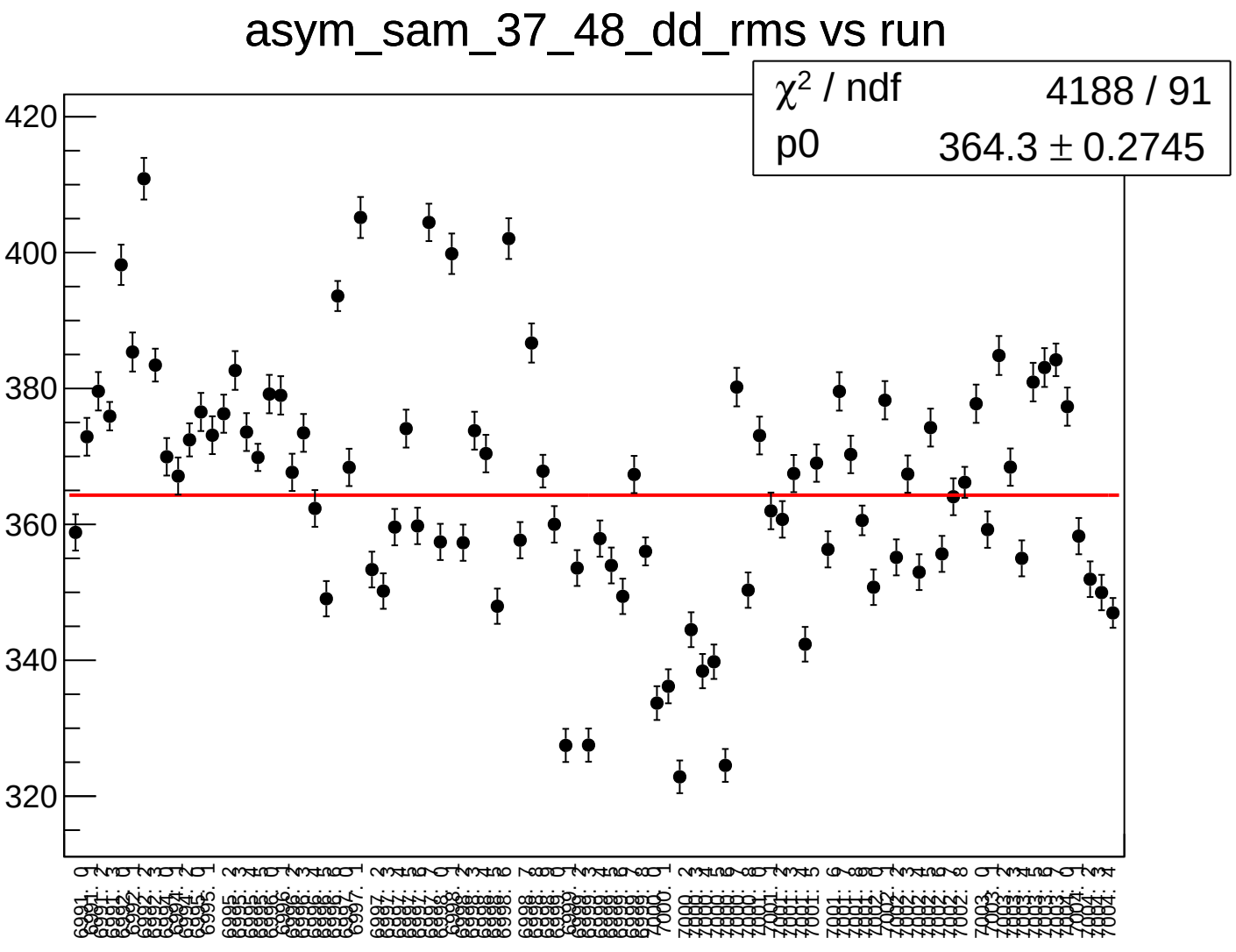

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 910.1 / 91
p0 71.59 ± 0.0539
78
76
74
72
70
68

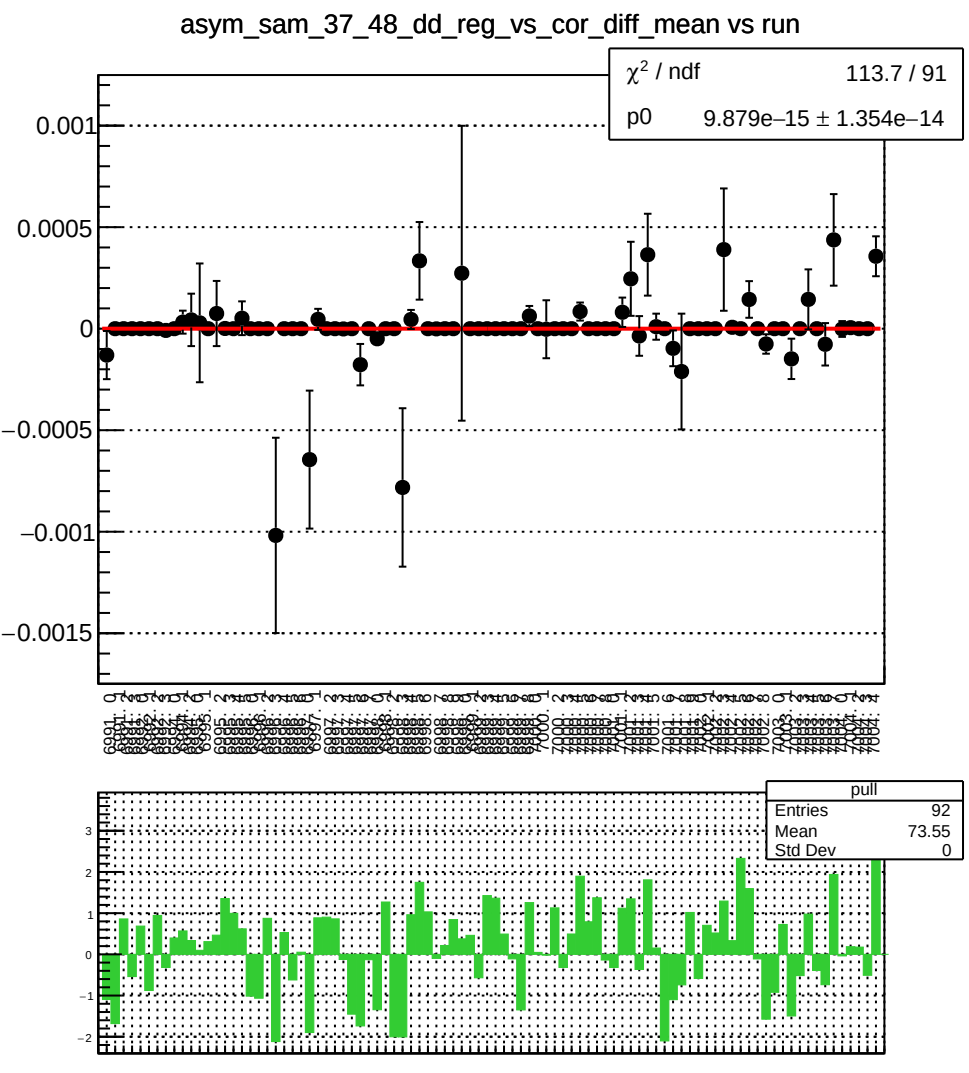

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.71 / 91
p0 62.63 ± 403.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −3197
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0002807
Std Dev 0.9875
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

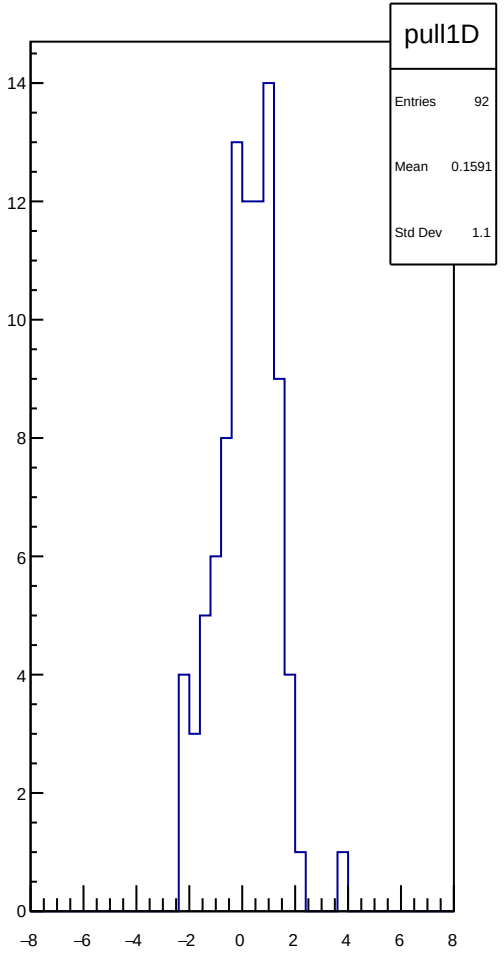

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4001 / 91
p0 378.7 ± 0.2853
440
420
400
380
360
340

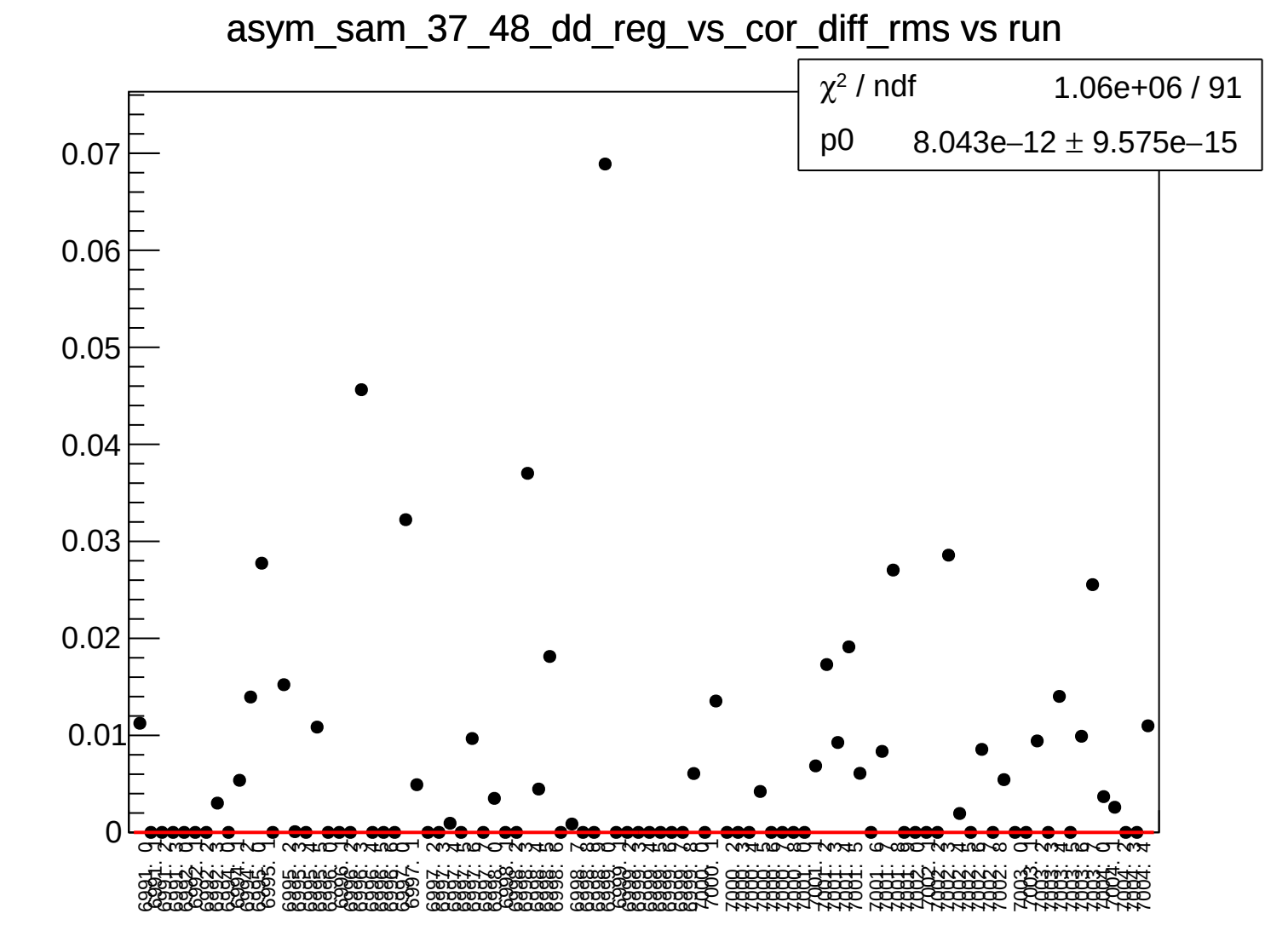

asym_sam_37_48_dd_mean vs run
χ² / ndf 89.57 / 91
p0 −121.5 ± 388.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 118.4
Std Dev 0
2
1
0
−1
−2

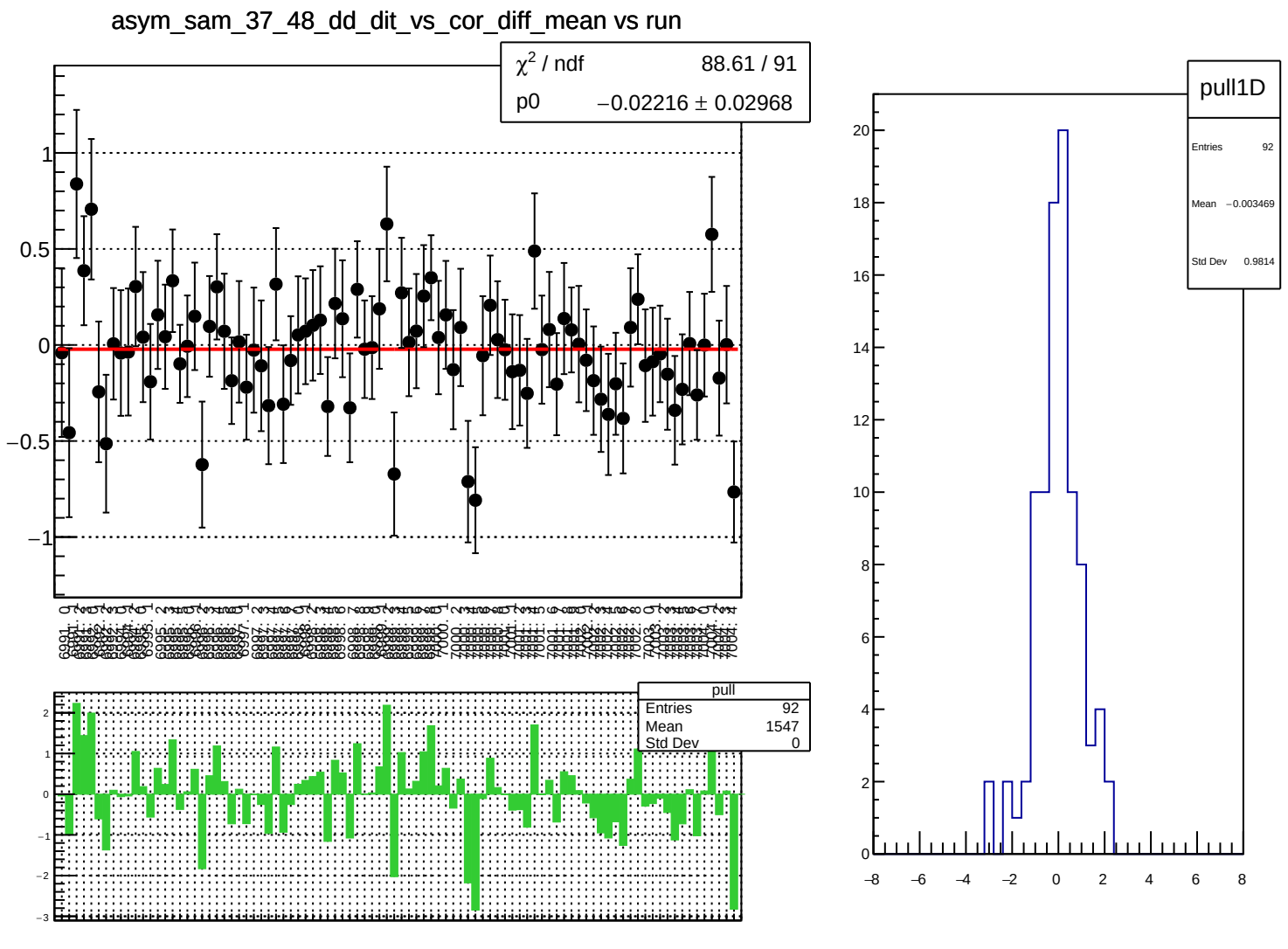

pull1D
Entries 92
Mean 0.003316
Std Dev 0.9867
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

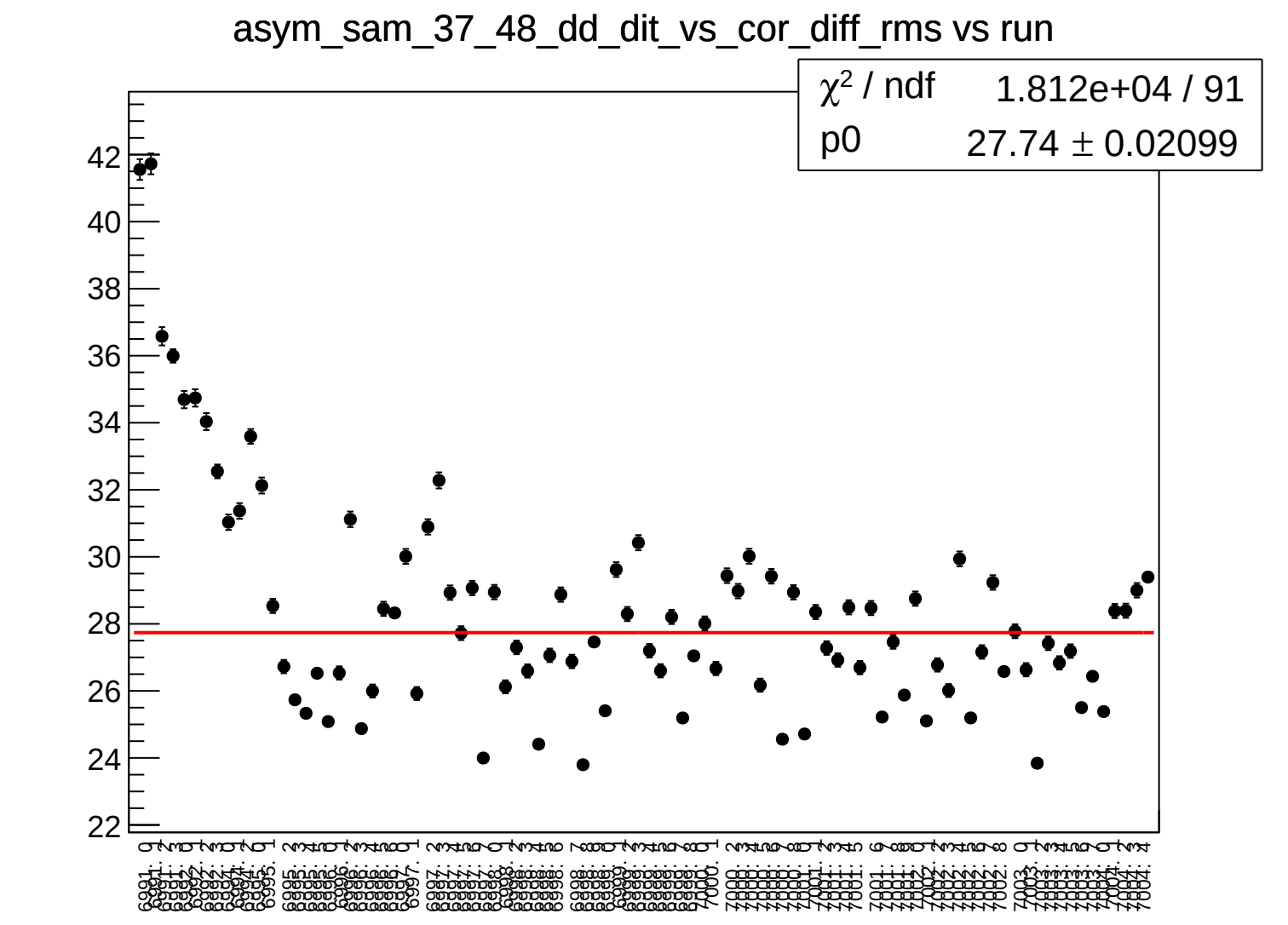

asym_sam_37_48_dd_rms vs run
χ² / ndf 4188 / 91
p0 364.3 ± 0.2745
420
400
380
360
340
320

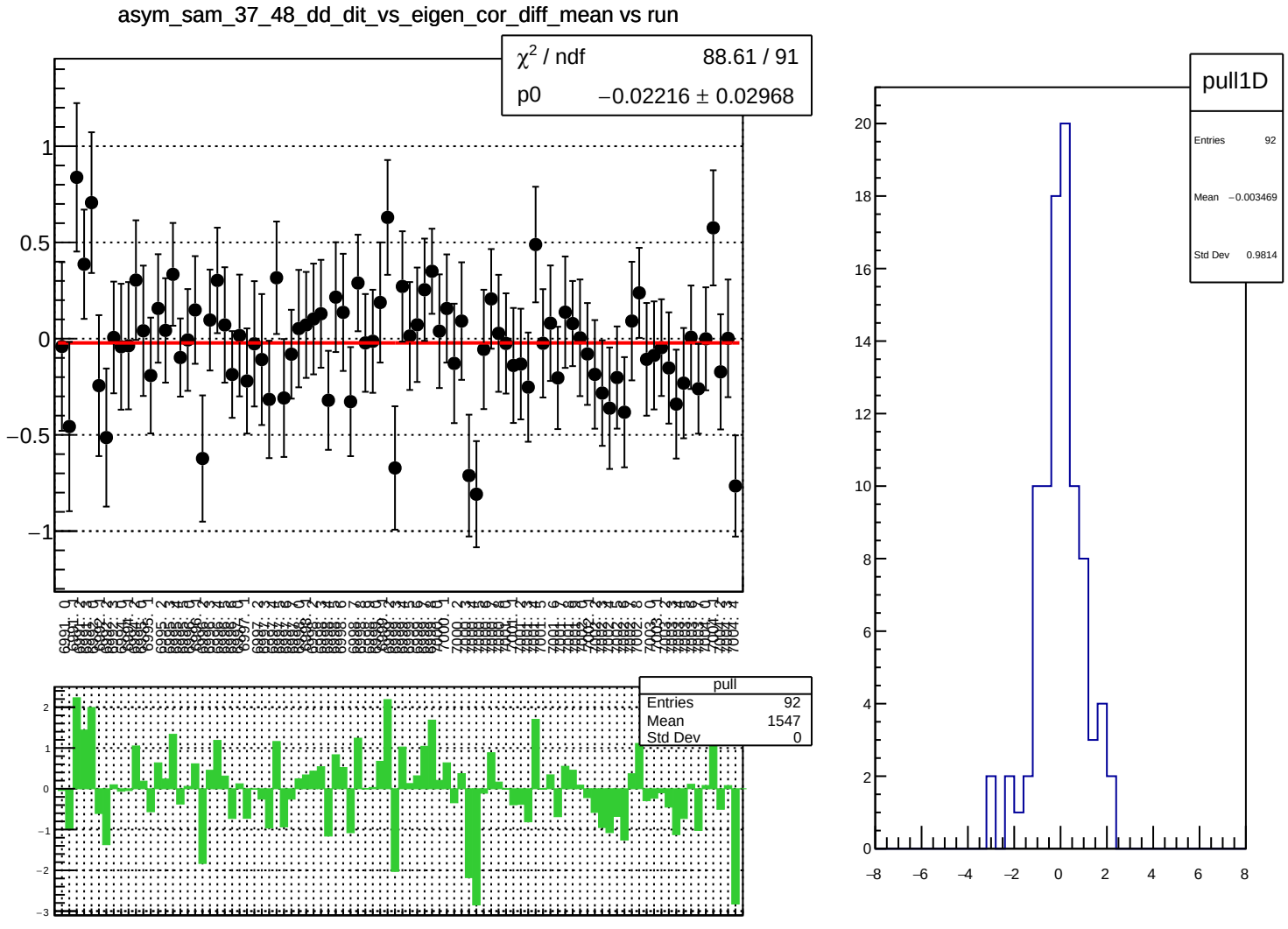

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113.7 / 91
p0 9.879e−15 ± 1.354e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 73.55
Std Dev 0
3
2
1
0
−1
−2

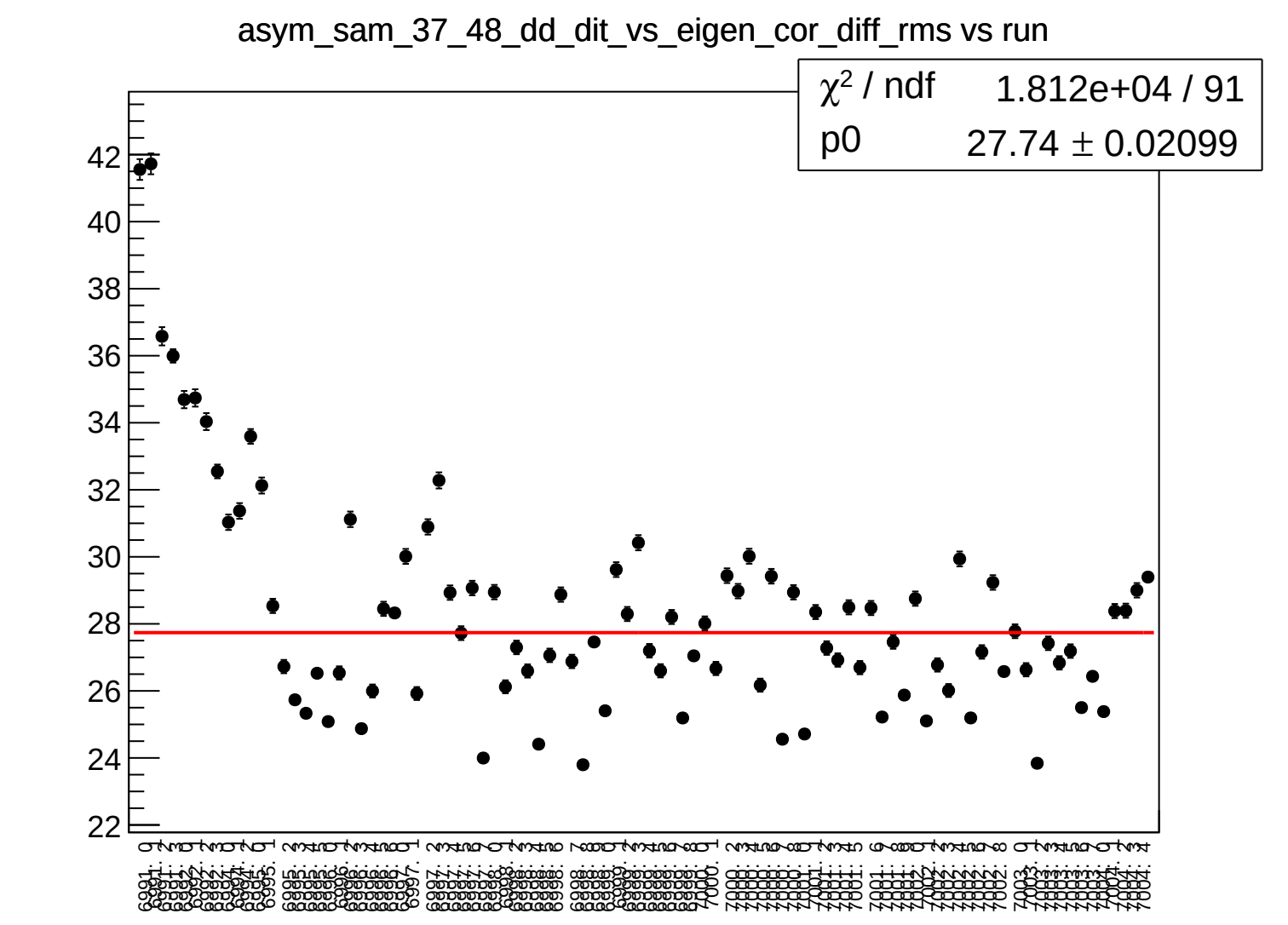

pull1D
Entries 92
Mean 0.1591
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

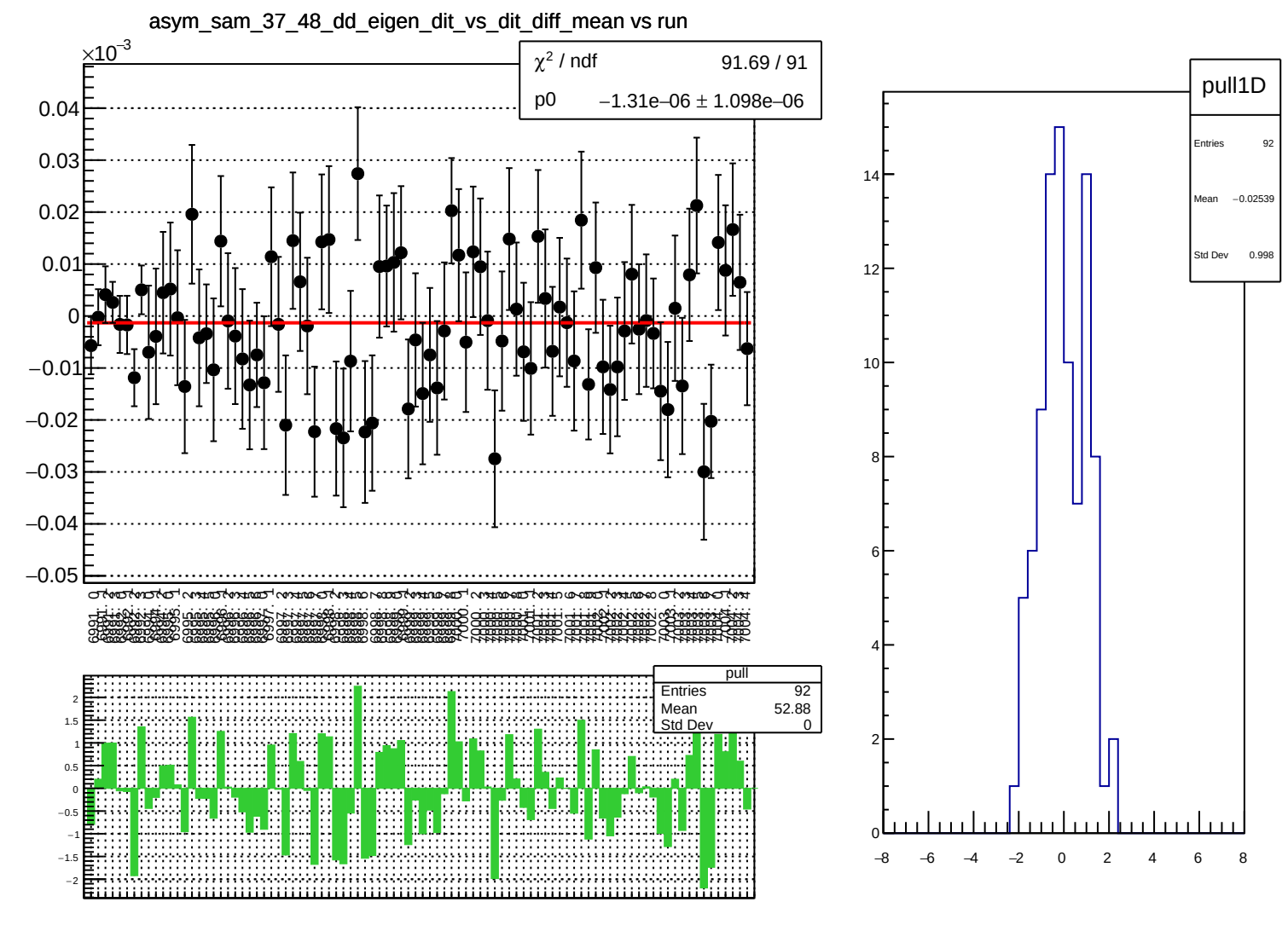

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 91
p0 8.043e−12 ± 9.575e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

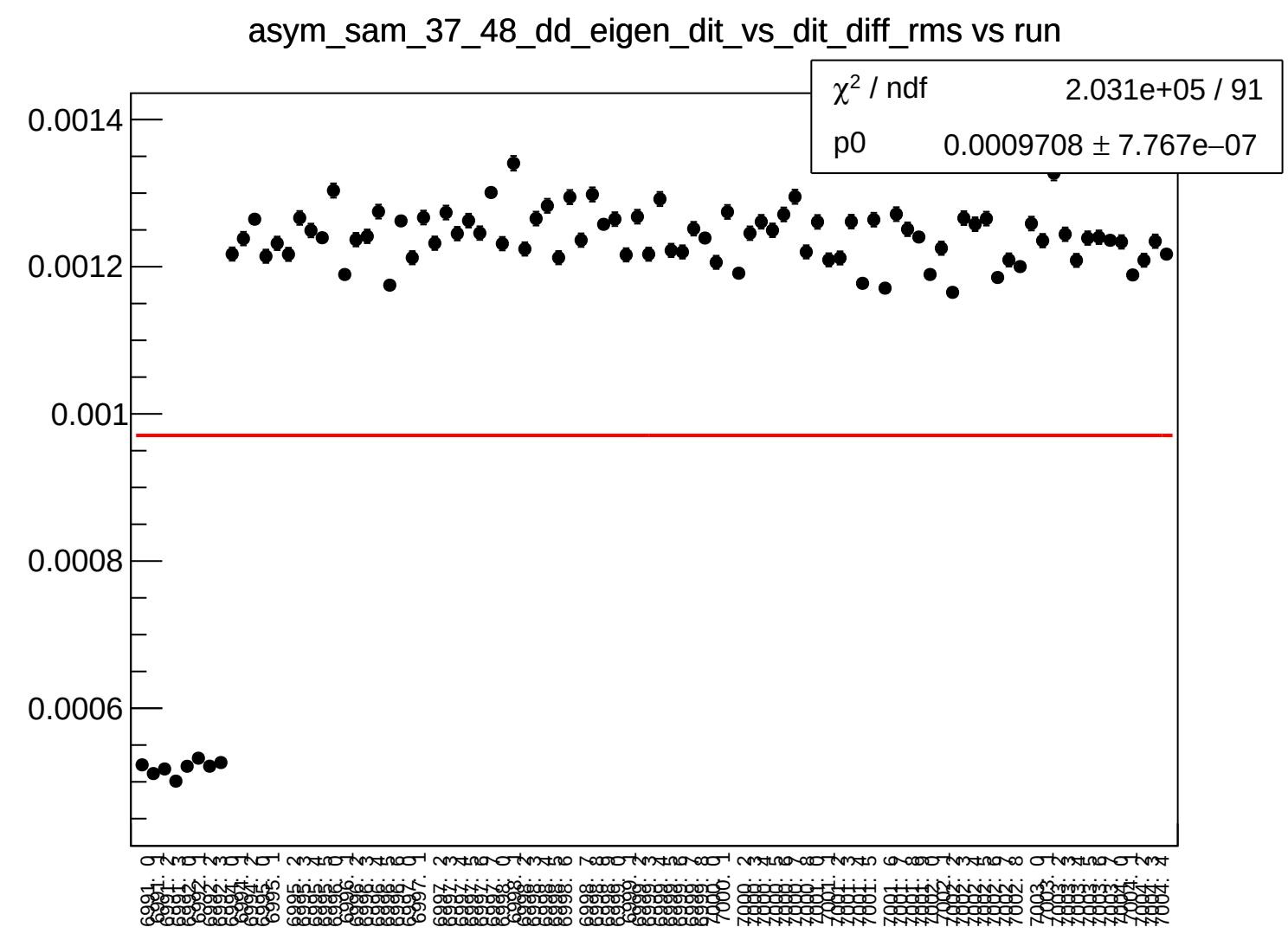

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.61 / 91
p0 −0.02216 ± 0.02968
pull
Entries 92
Mean 1547
Std Dev 0
pull1D
Entries 92
Mean −0.003469
Std Dev 0.9814

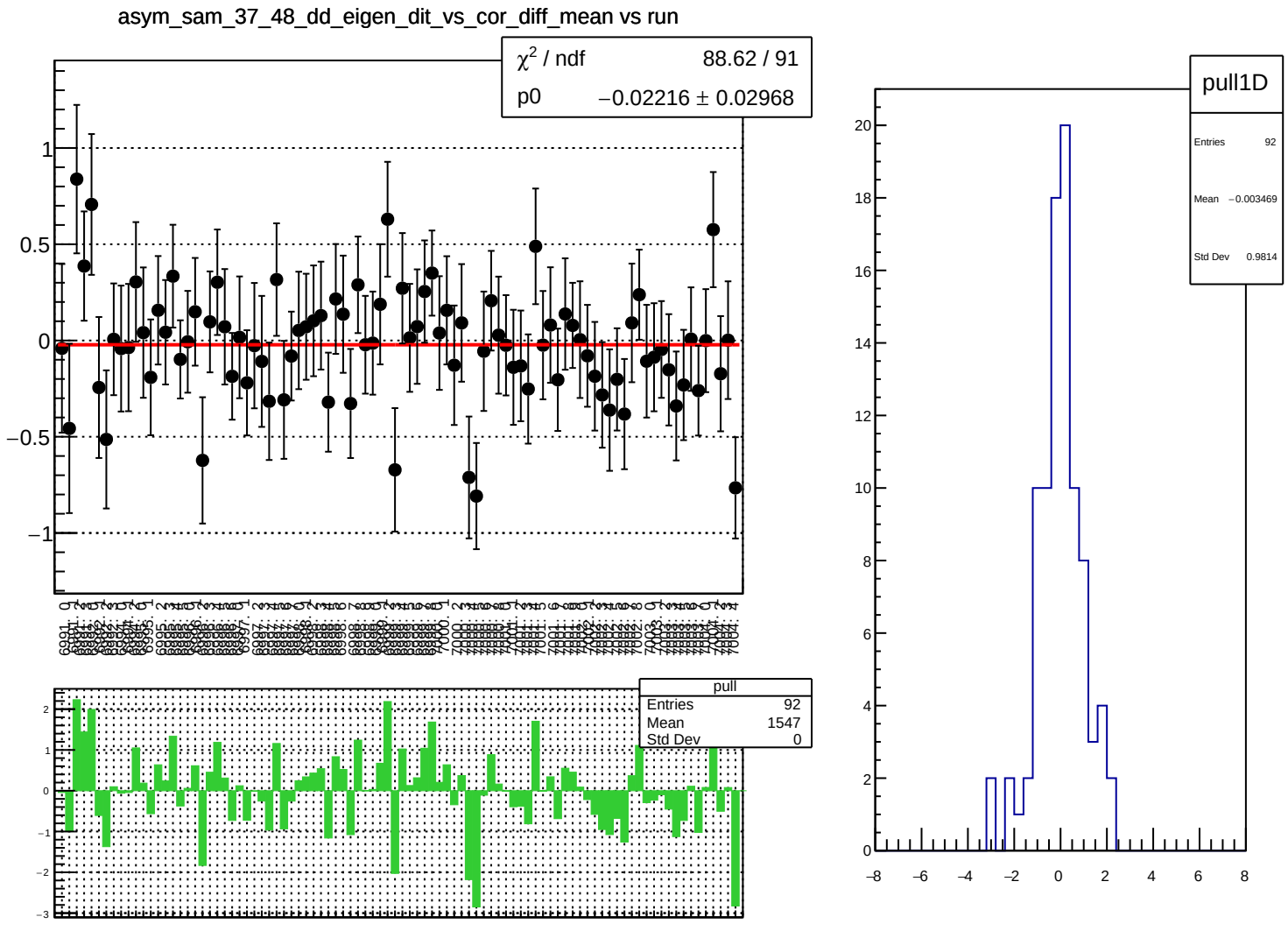

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.812e+04 / 91
p0 27.74 ± 0.02099
42
40
38
36
34
32
30
28
26
24
22

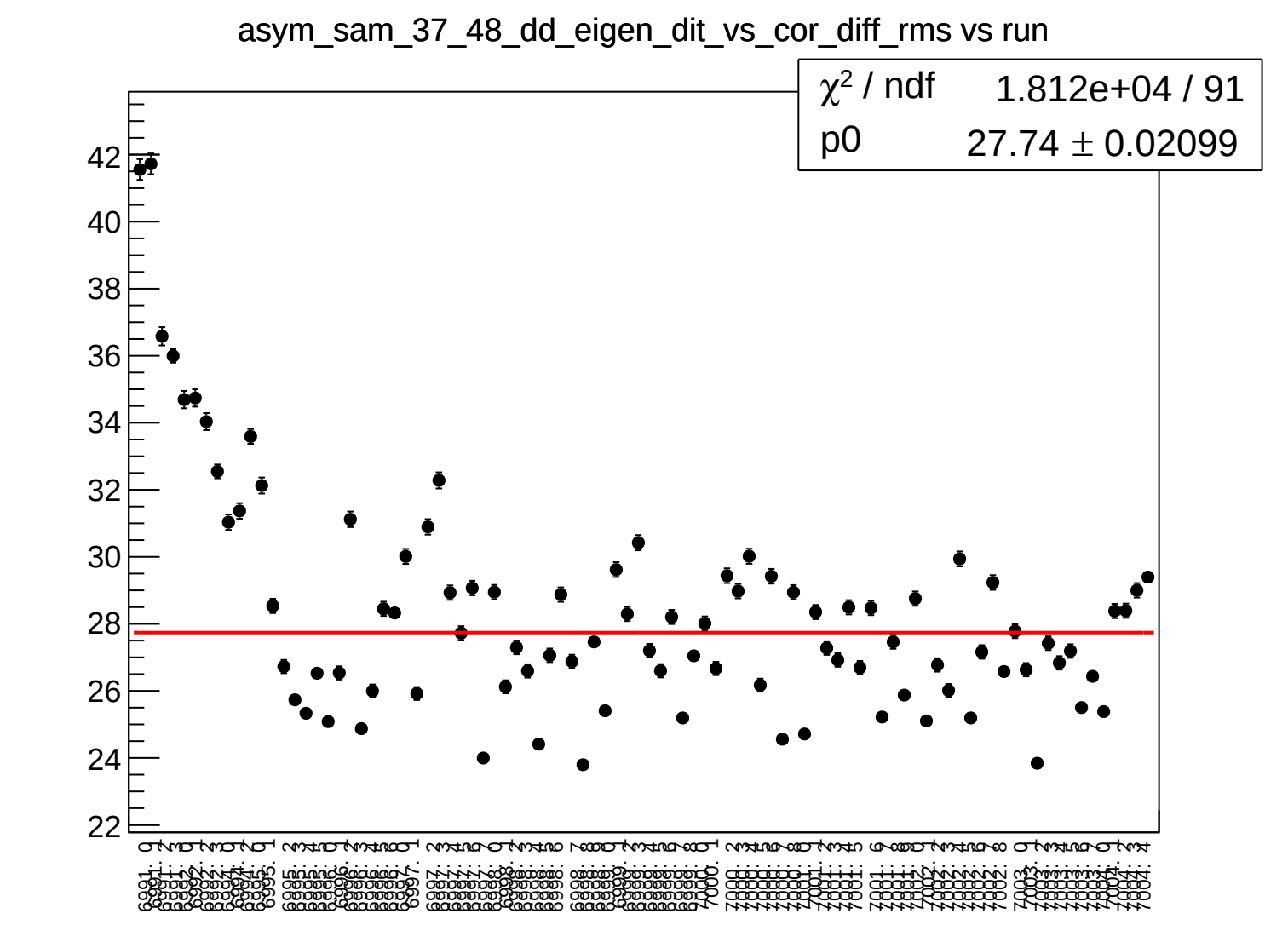

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.61 / 91
p0 −0.02216 ± 0.02968
pull
Entries 92
Mean 1547
Std Dev 0
pull1D
Entries 92
Mean −0.003469
Std Dev 0.9814

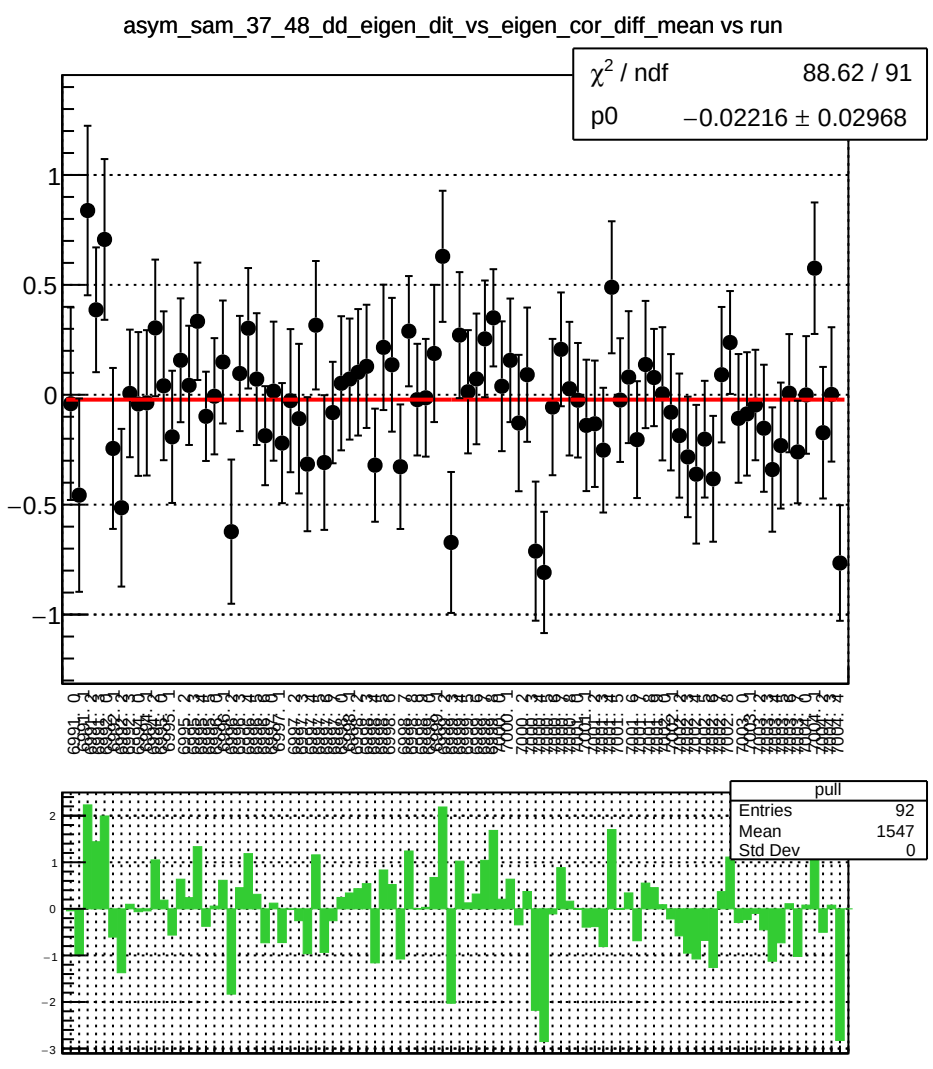

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.812e+04 / 91
p0 27.74 ± 0.02099
42
40
38
36
34
32
30
28
26
24
22

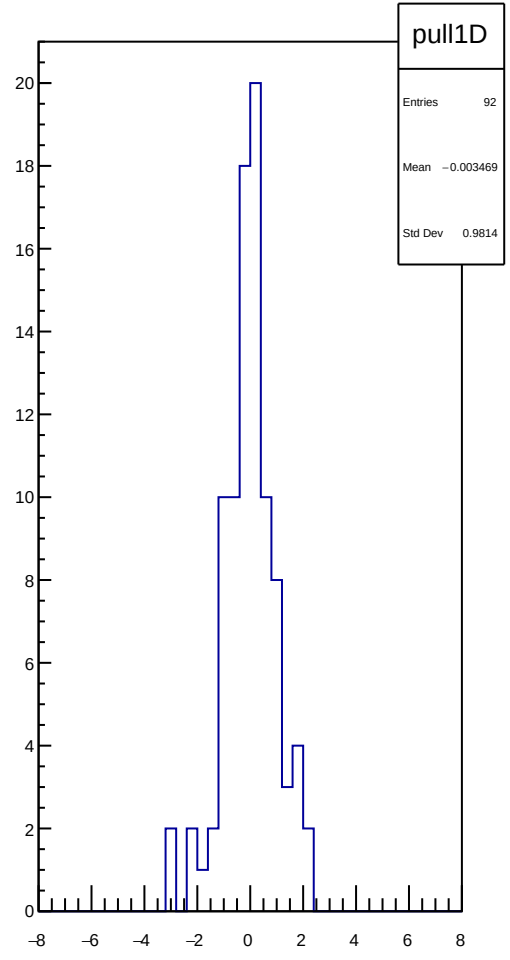

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.69 / 91
p0 −1.31e−06 ± 1.098e−06
pull
Entries 92
Mean 52.88
Std Dev 0
pull1D
Entries 92
Mean −0.02539
Std Dev 0.998

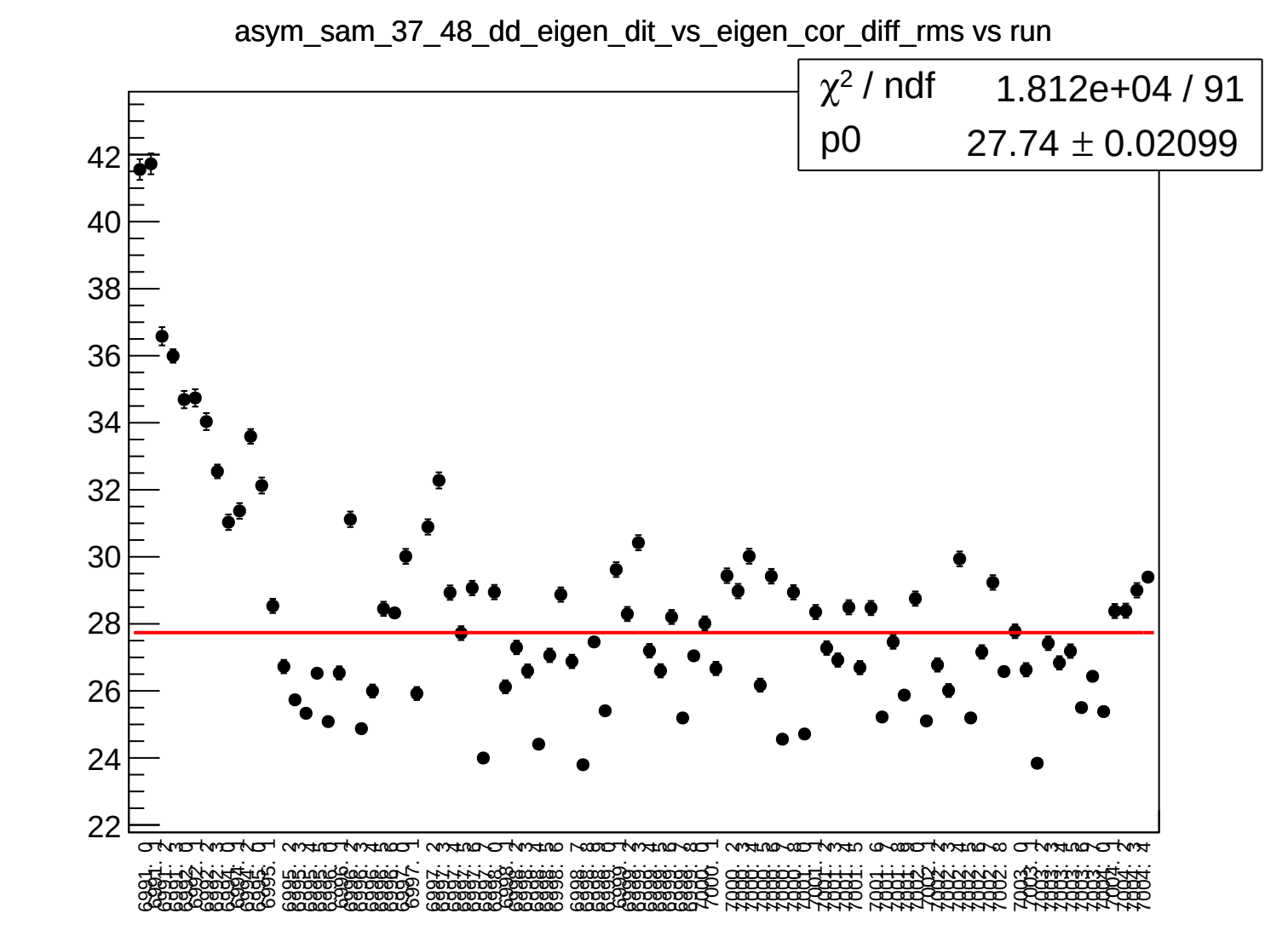

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.031e+05 / 91
p0 0.0009708 ± 7.767e−07
0.0014
0.0012
0.001
0.0008
0.0006

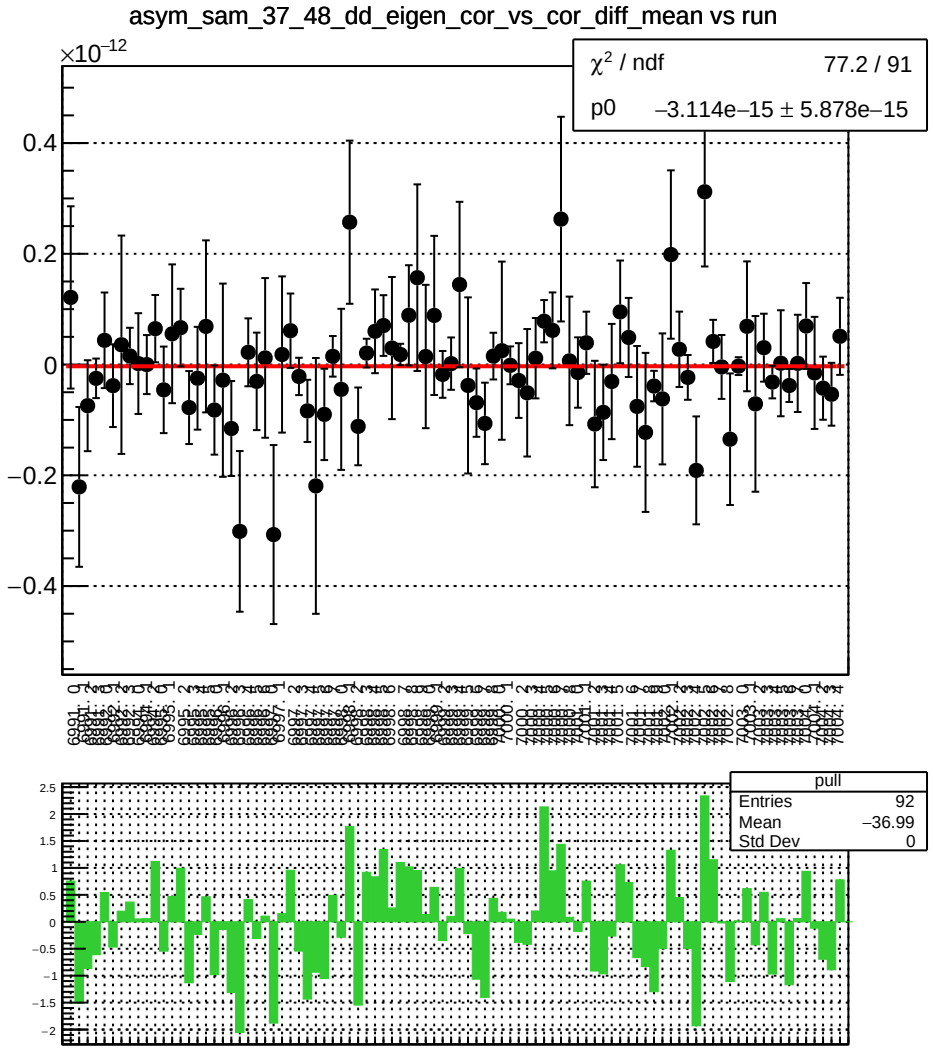

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.62 / 91
p0 −0.02216 ± 0.02968
pull
Entries 92
Mean 1547
Std Dev 0
pull1D
Entries 92
Mean −0.003469
Std Dev 0.9814

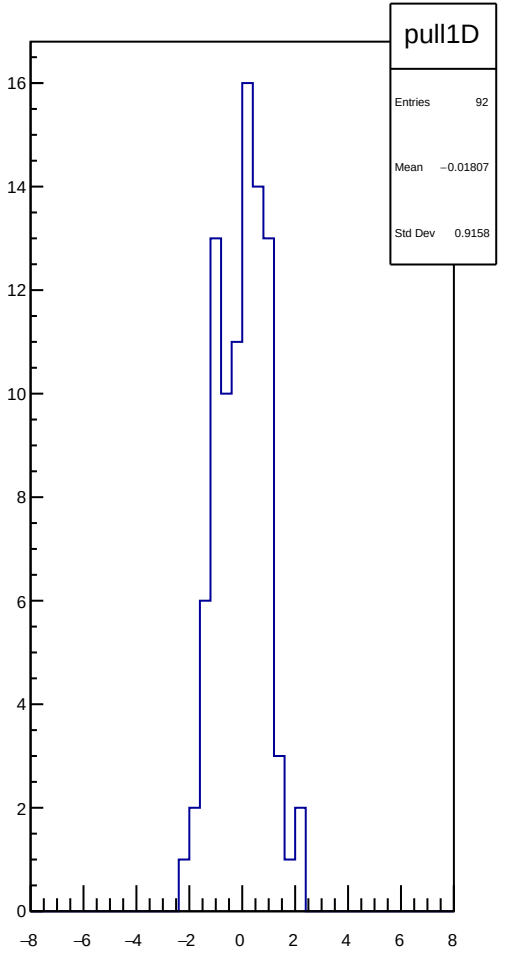

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.812e+04 / 91
p0 27.74 ± 0.02099
42
40
38
36
34
32
30
28
26
24
22

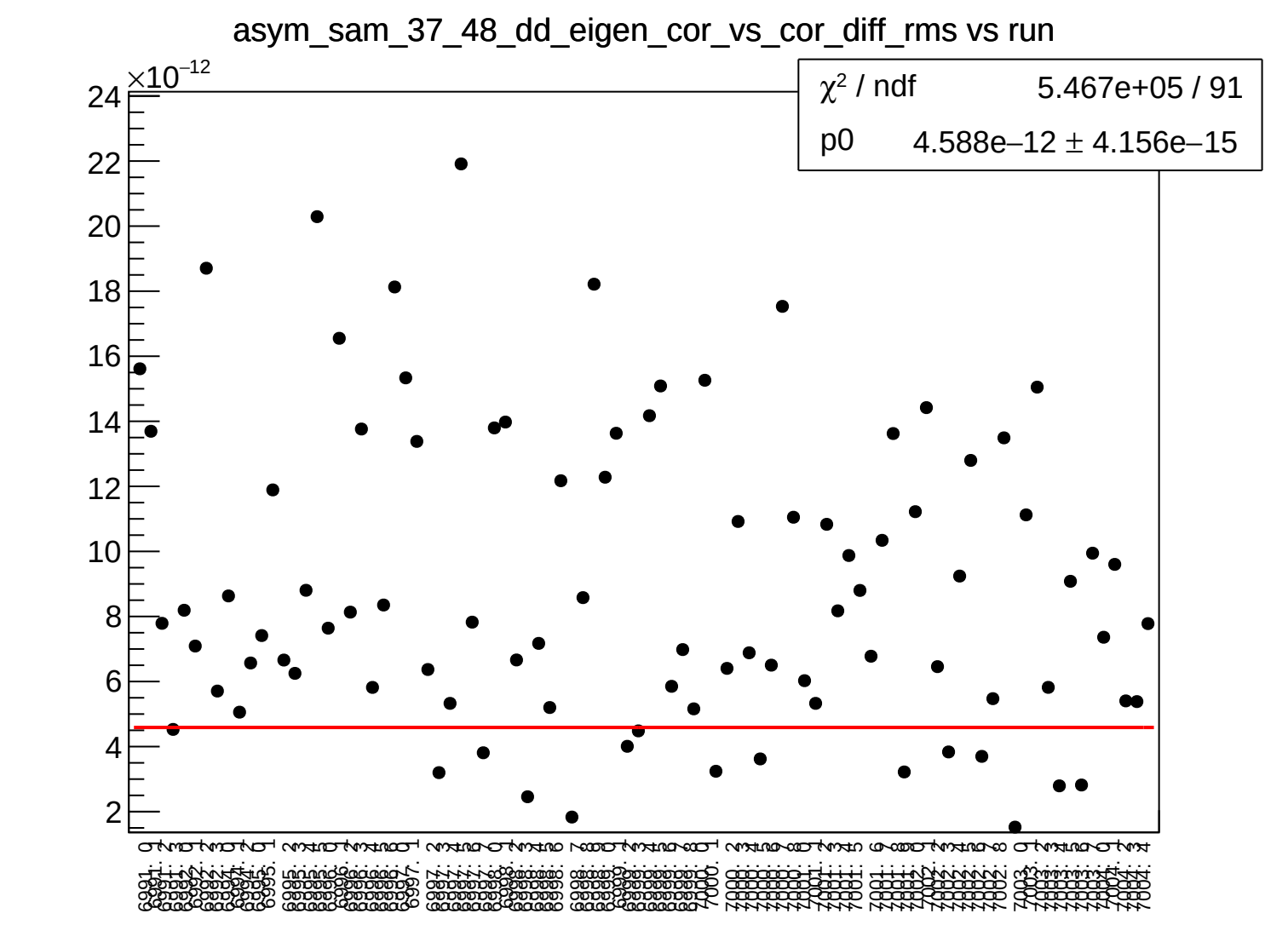

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.62 / 91
p0 −0.02216 ± 0.02968
pull
Entries 92
Mean 1547
Std Dev 0

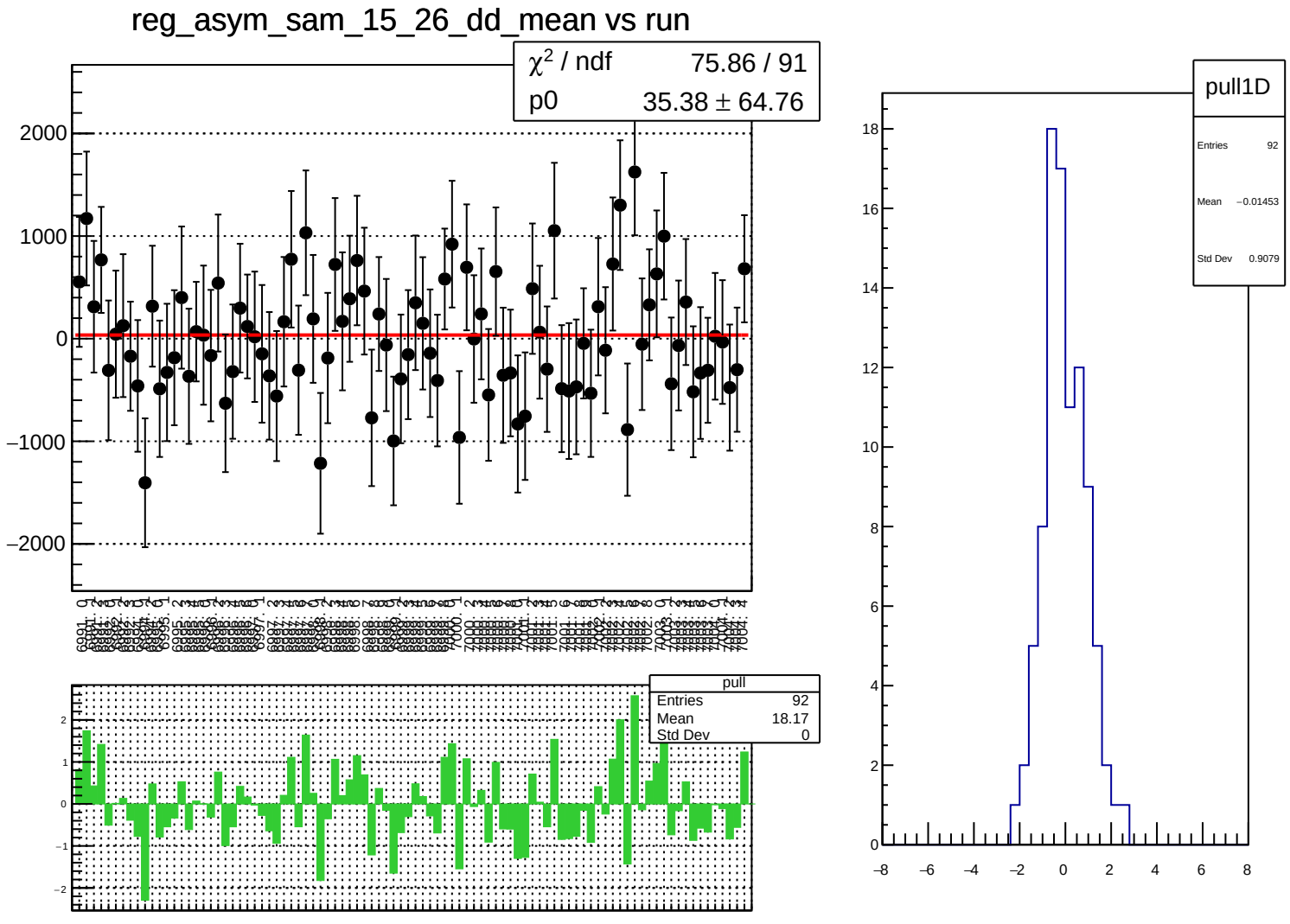

pull1D
Entries 92
Mean −0.003469
Std Dev 0.9814

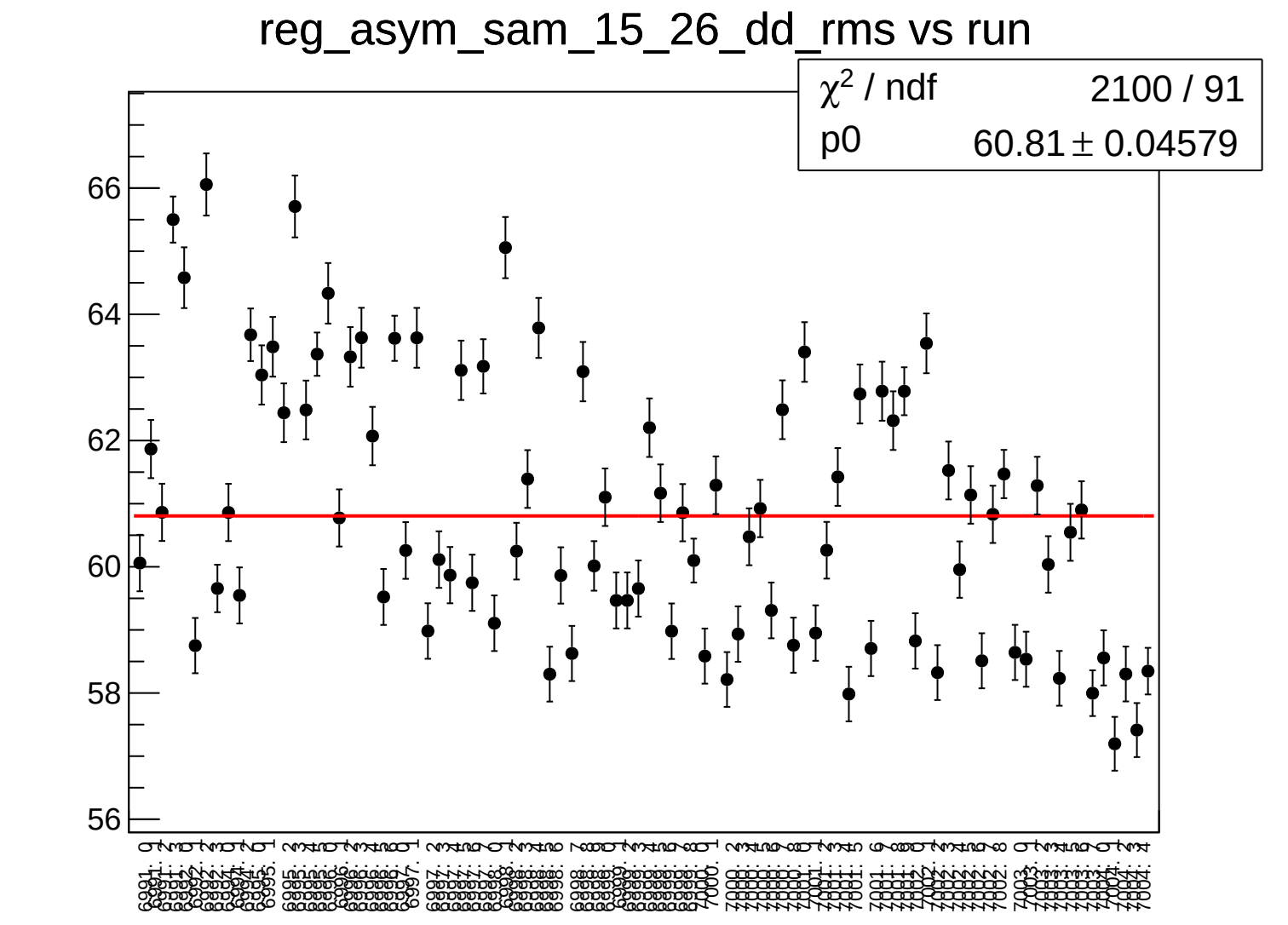

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.812e+04 / 91
p0 27.74 ± 0.02099
42
40
38
36
34
32
30
28
26
24
22

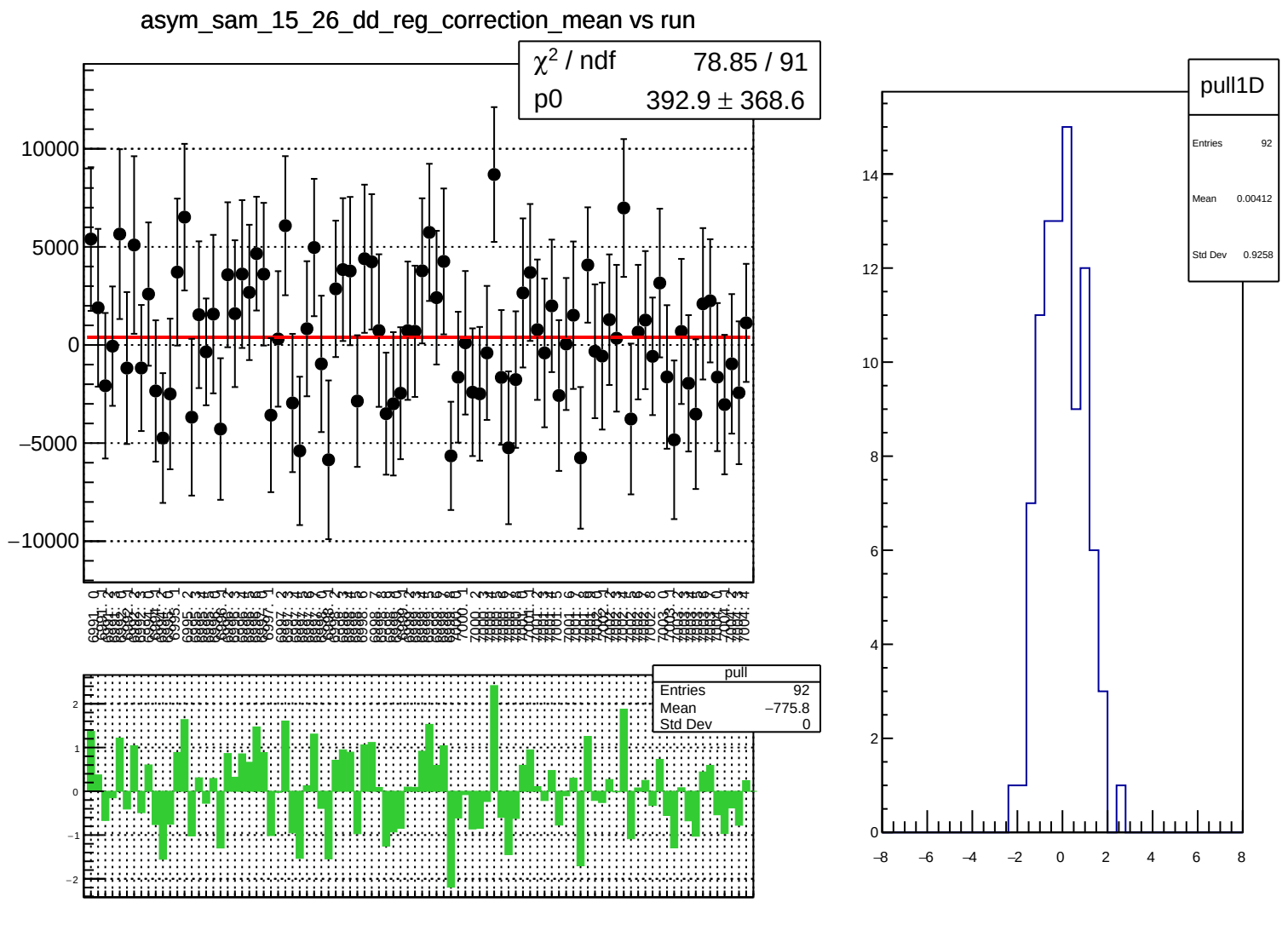

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 77.2 / 91
p0 −3.114e−15 ± 5.878e−15
pull
Entries 92
Mean −36.99
Std Dev 0

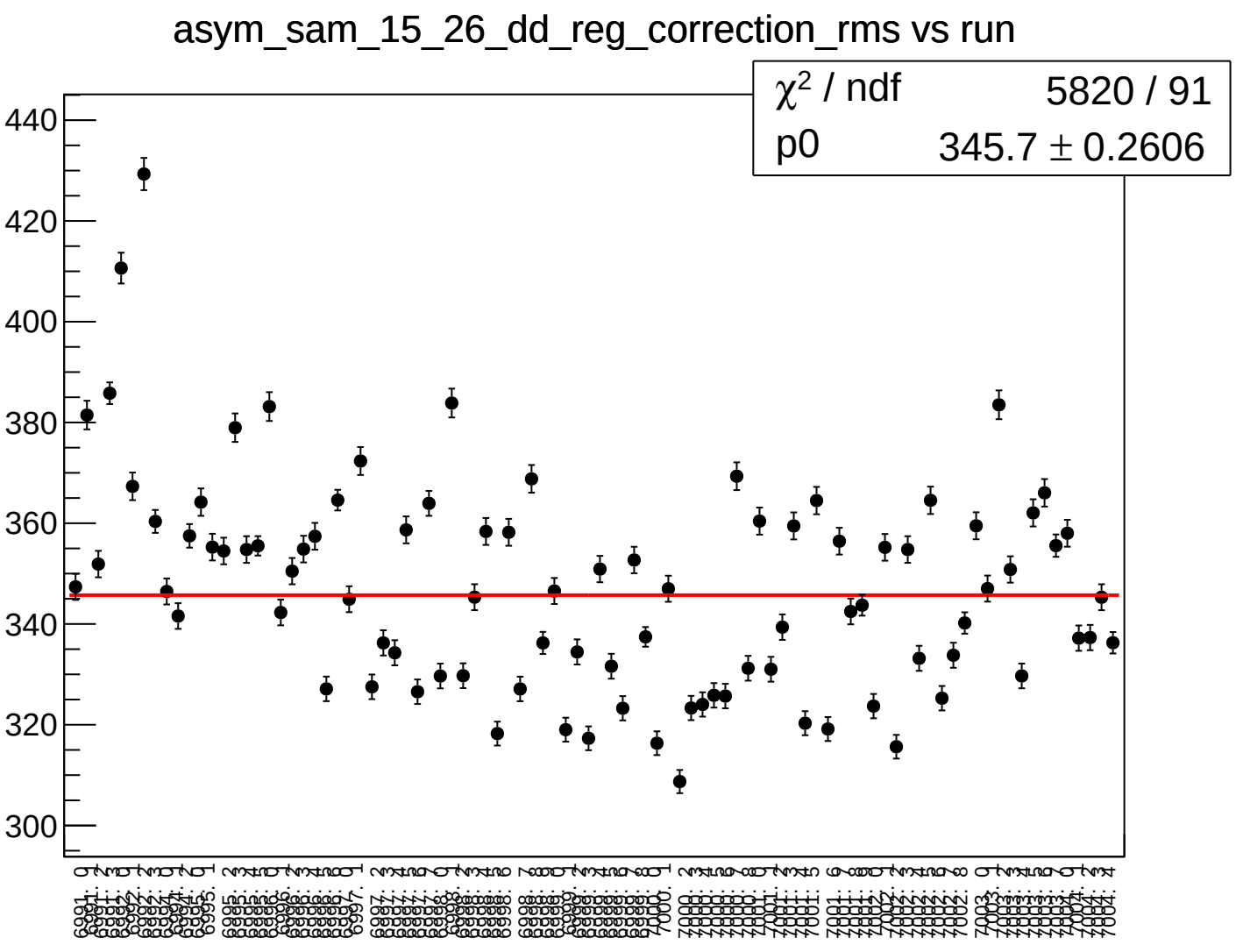

pull1D
Entries 92
Mean −0.01807
Std Dev 0.9158

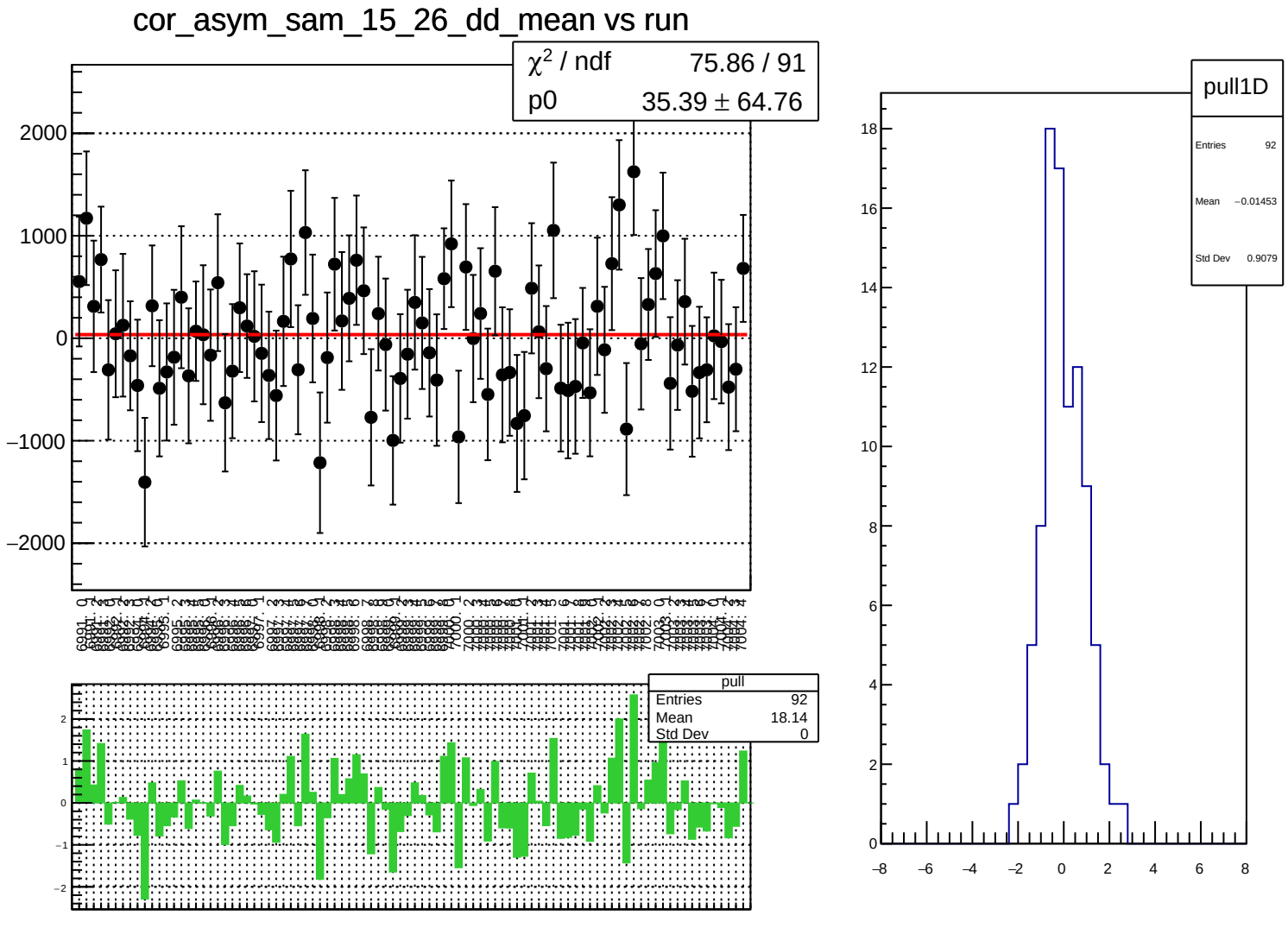

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.467e+05 / 91
p0 4.588e−12 ± 4.156e−15
24
22
20
18
16
14
12
10
8
6
4
2

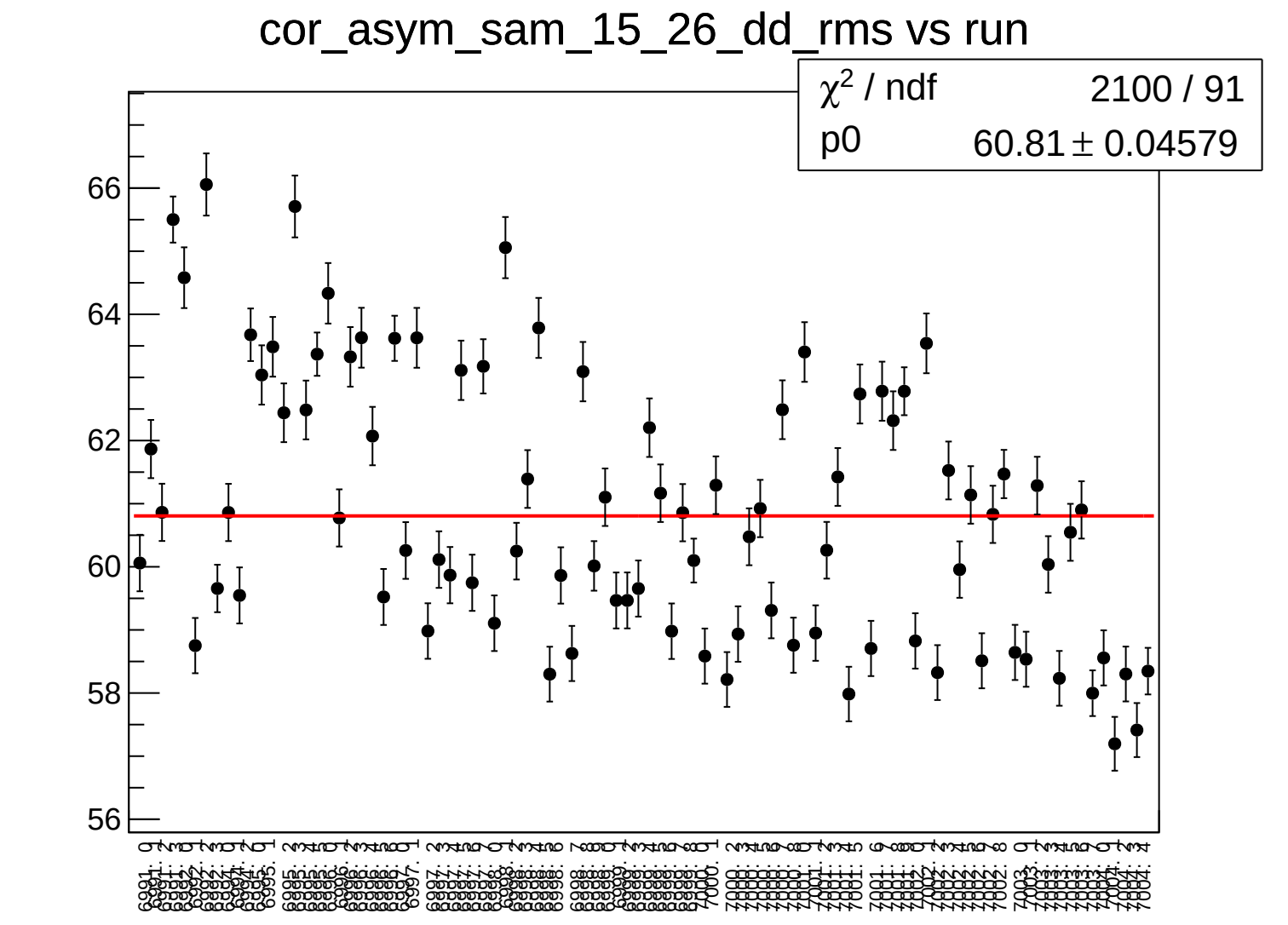

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.86 / 91
p0 35.38 ± 64.76
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 18.17
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01453
Std Dev 0.9079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

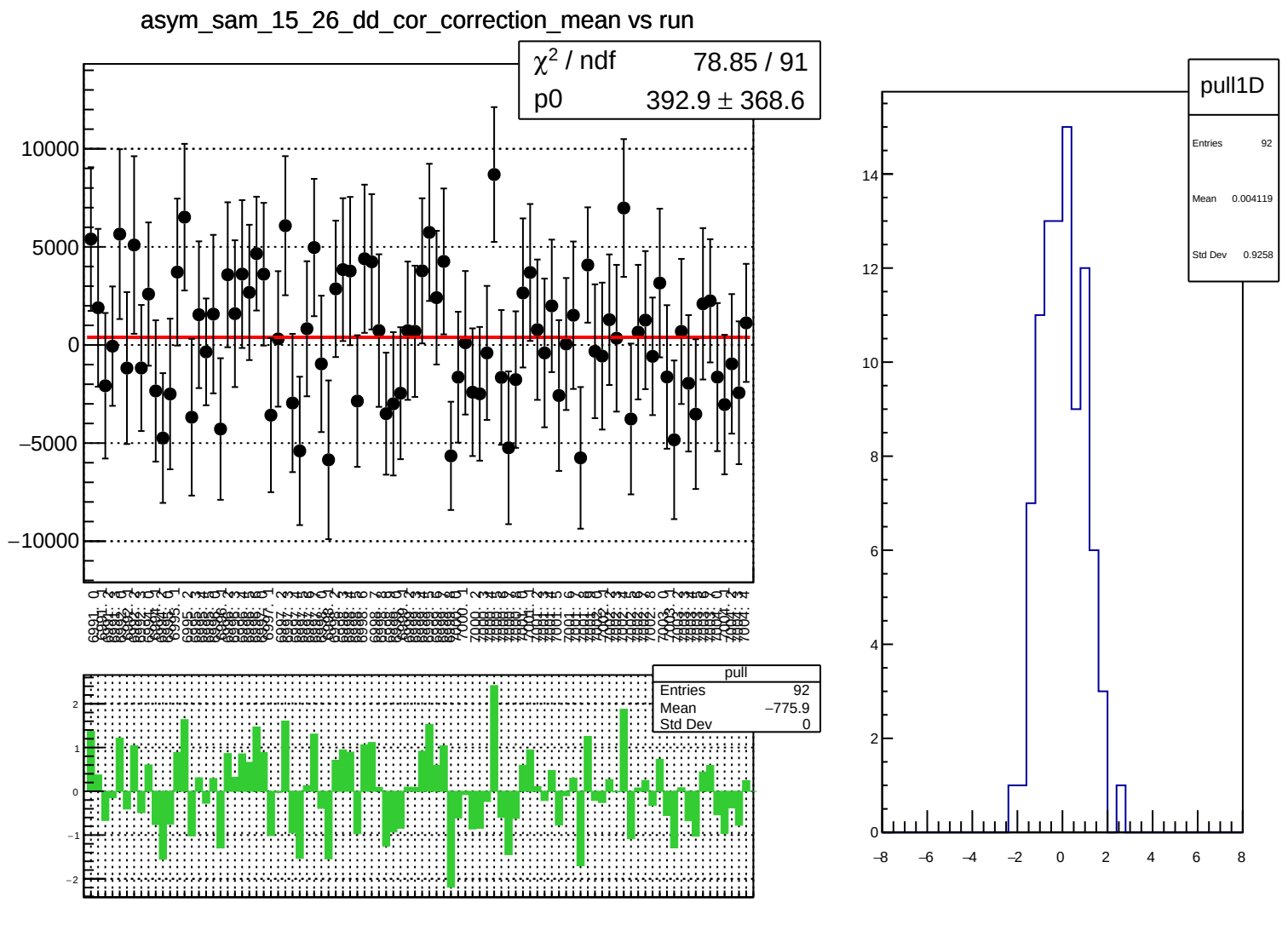

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2100 / 91
p0 60.81 ± 0.04579
66
64
62
60
58
56

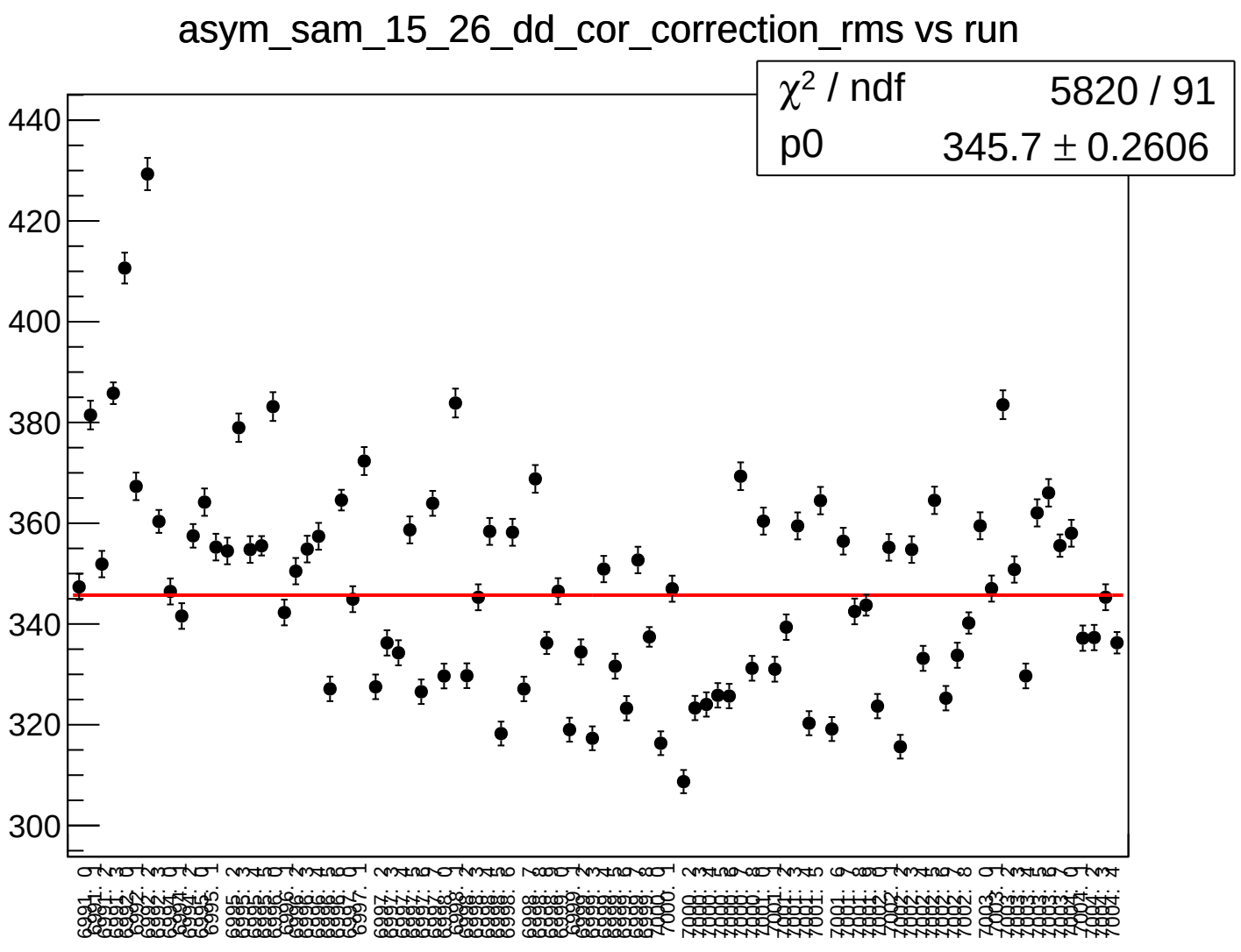

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 78.85 / 91
p0 392.9 ± 368.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −775.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.00412
Std Dev 0.9258
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

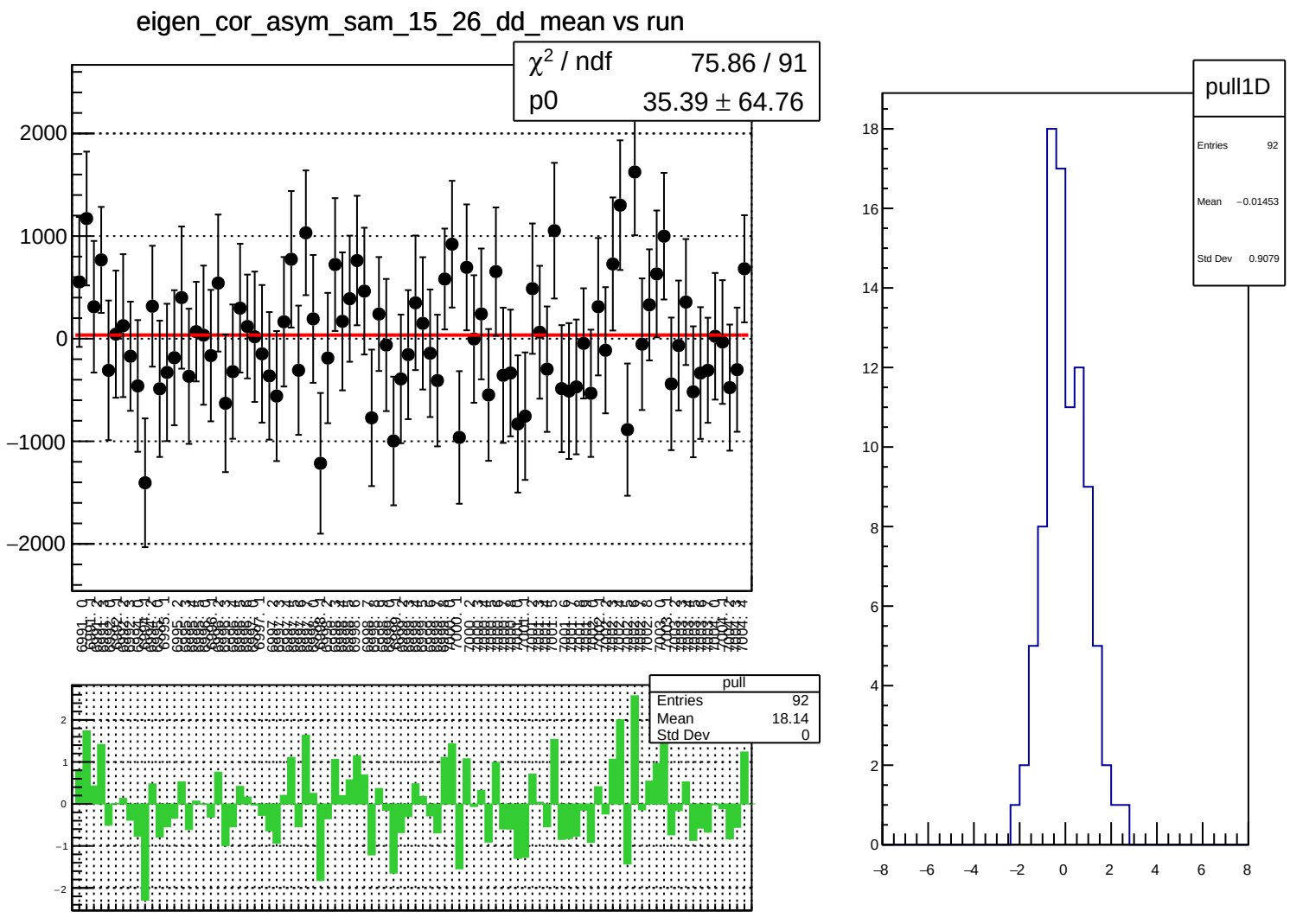

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 5820 / 91
p0 345.7 ± 0.2606
440
420
400
380
360
340
320
300

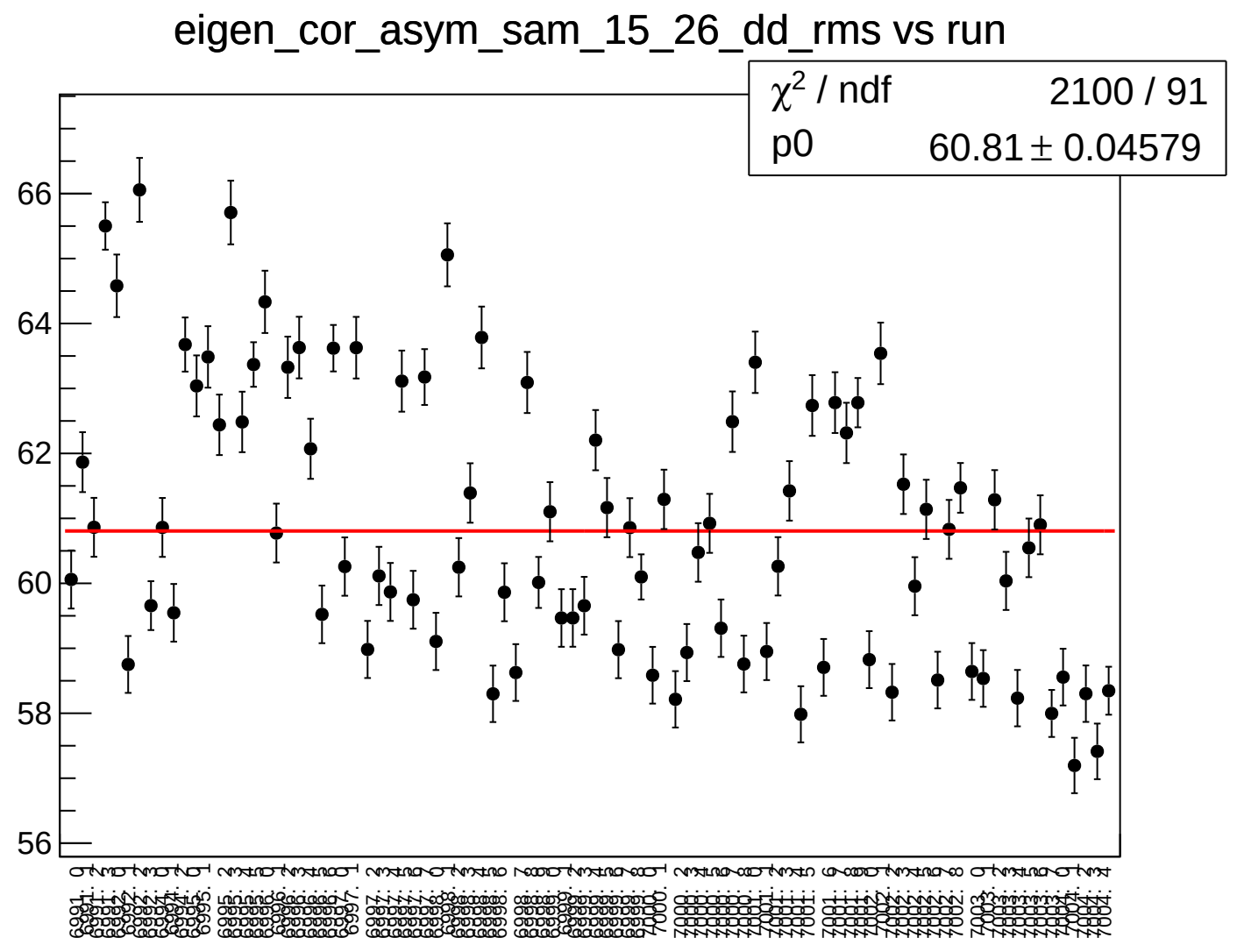

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.86 / 91
p0 35.39 ± 64.76
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 18.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01453
Std Dev 0.9079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

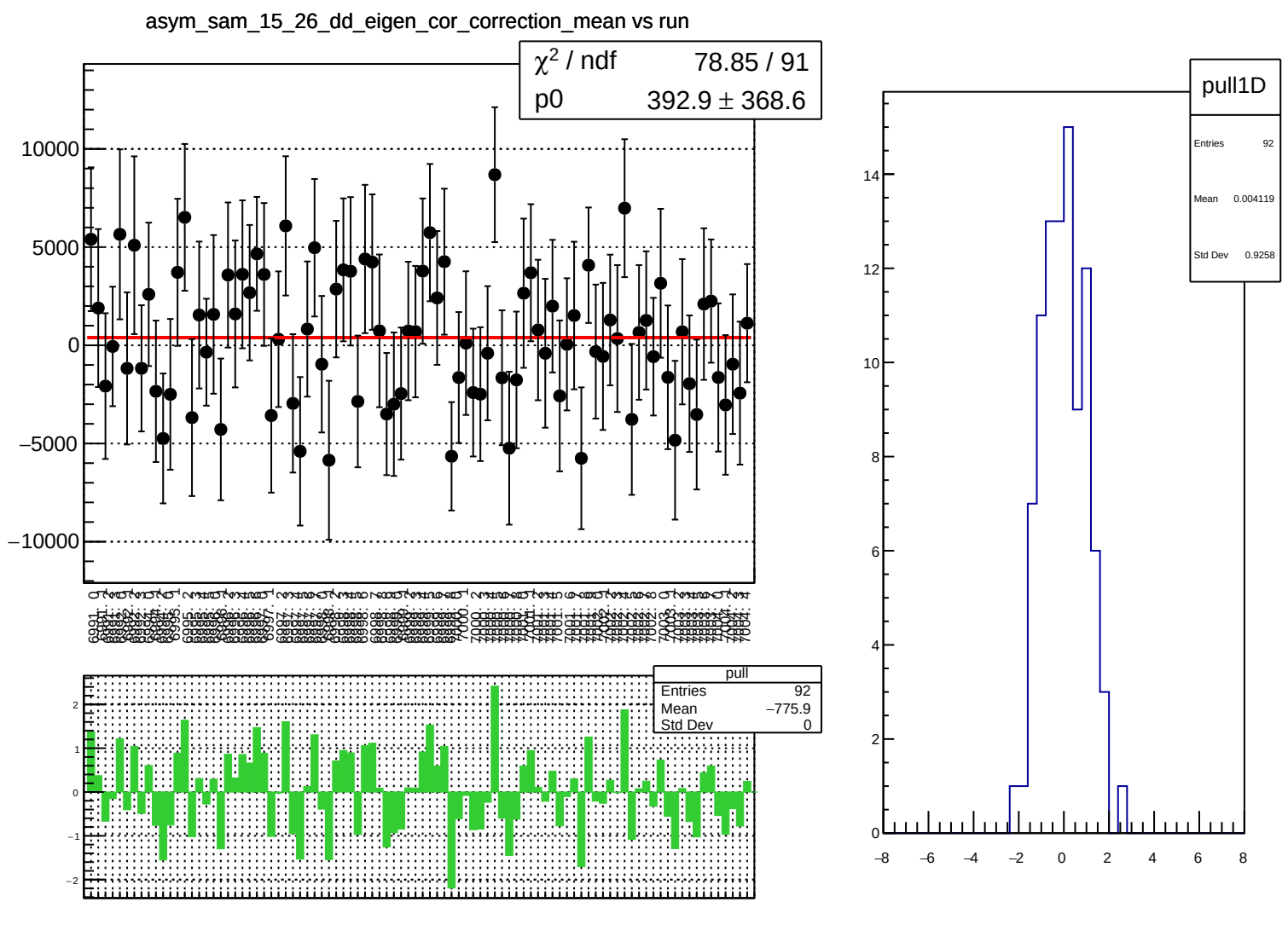

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2100 / 91
p0 60.81 ± 0.04579
66
64
62
60
58
56

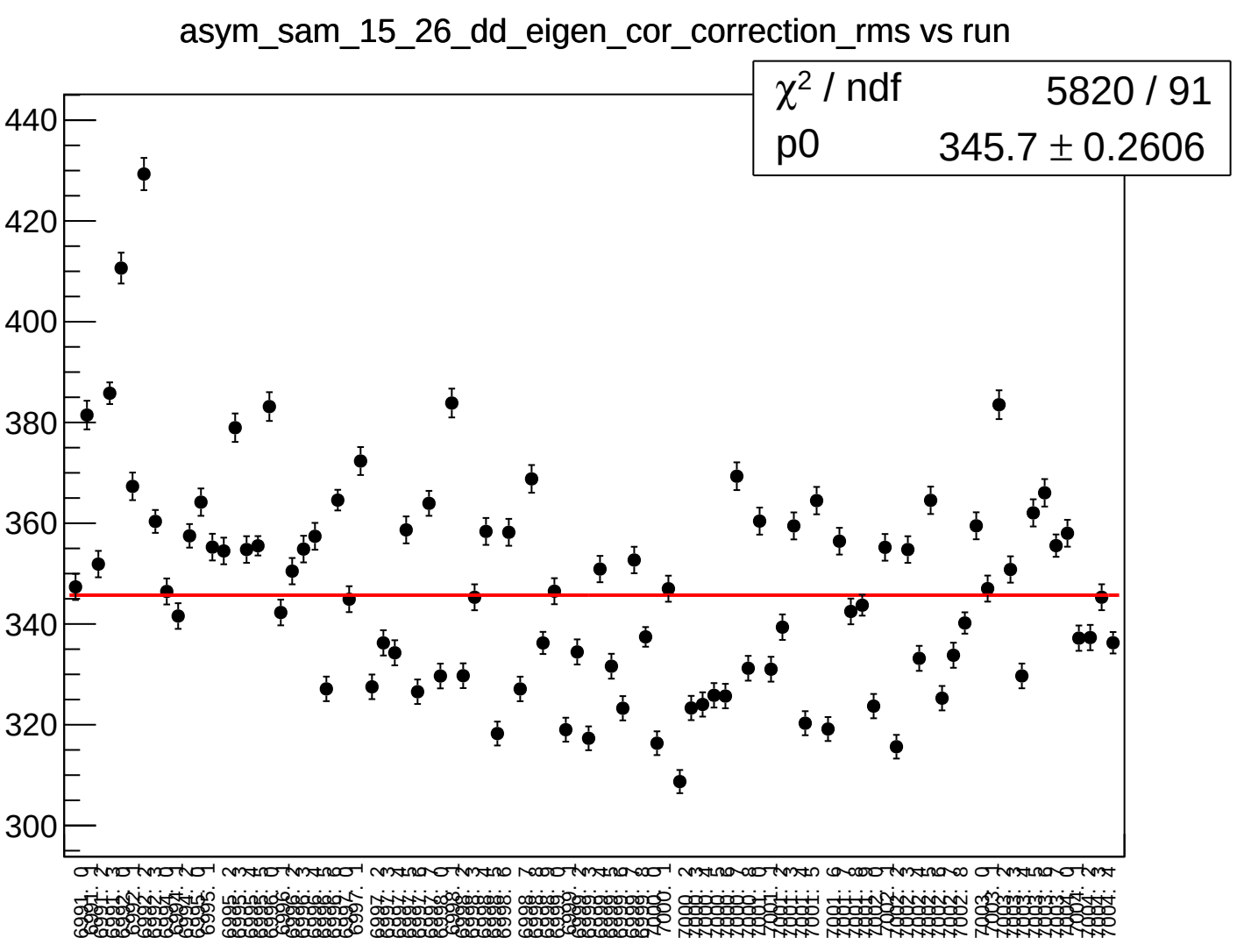

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 78.85 / 91
p0 392.9 ± 368.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −775.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.004119
Std Dev 0.9258
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

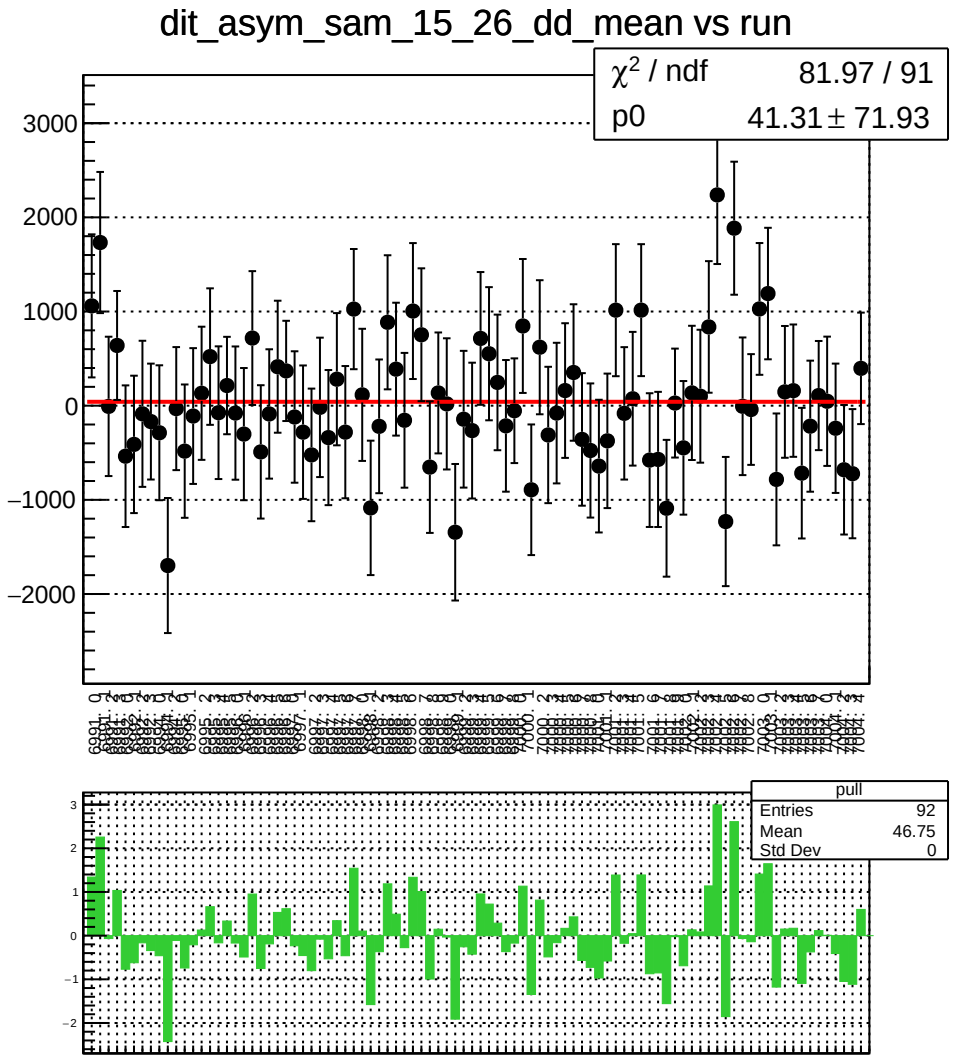

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 5820 / 91
p0 345.7 ± 0.2606
440
420
400
380
360
340
320
300

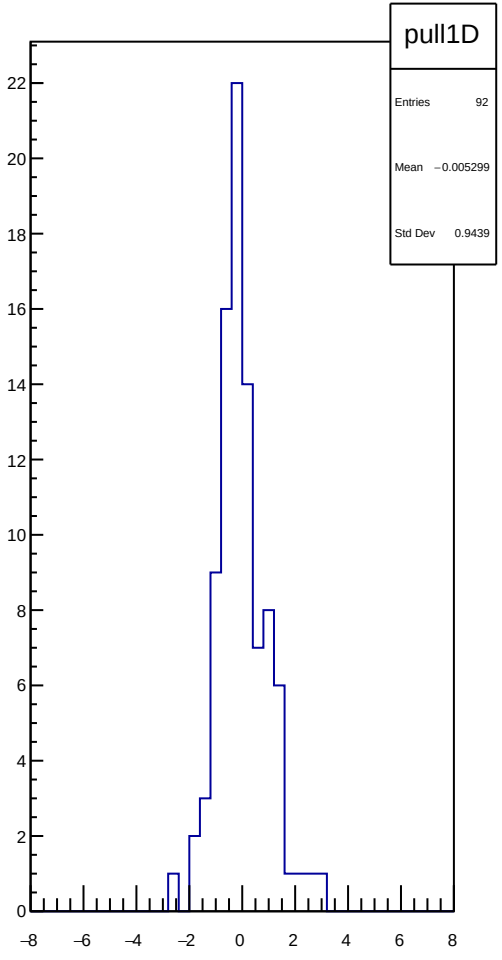

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.86 / 91
p0 35.39 ± 64.76
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 18.14
Std Dev 0
pull1D
Entries 92
Mean −0.01453
Std Dev 0.9079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

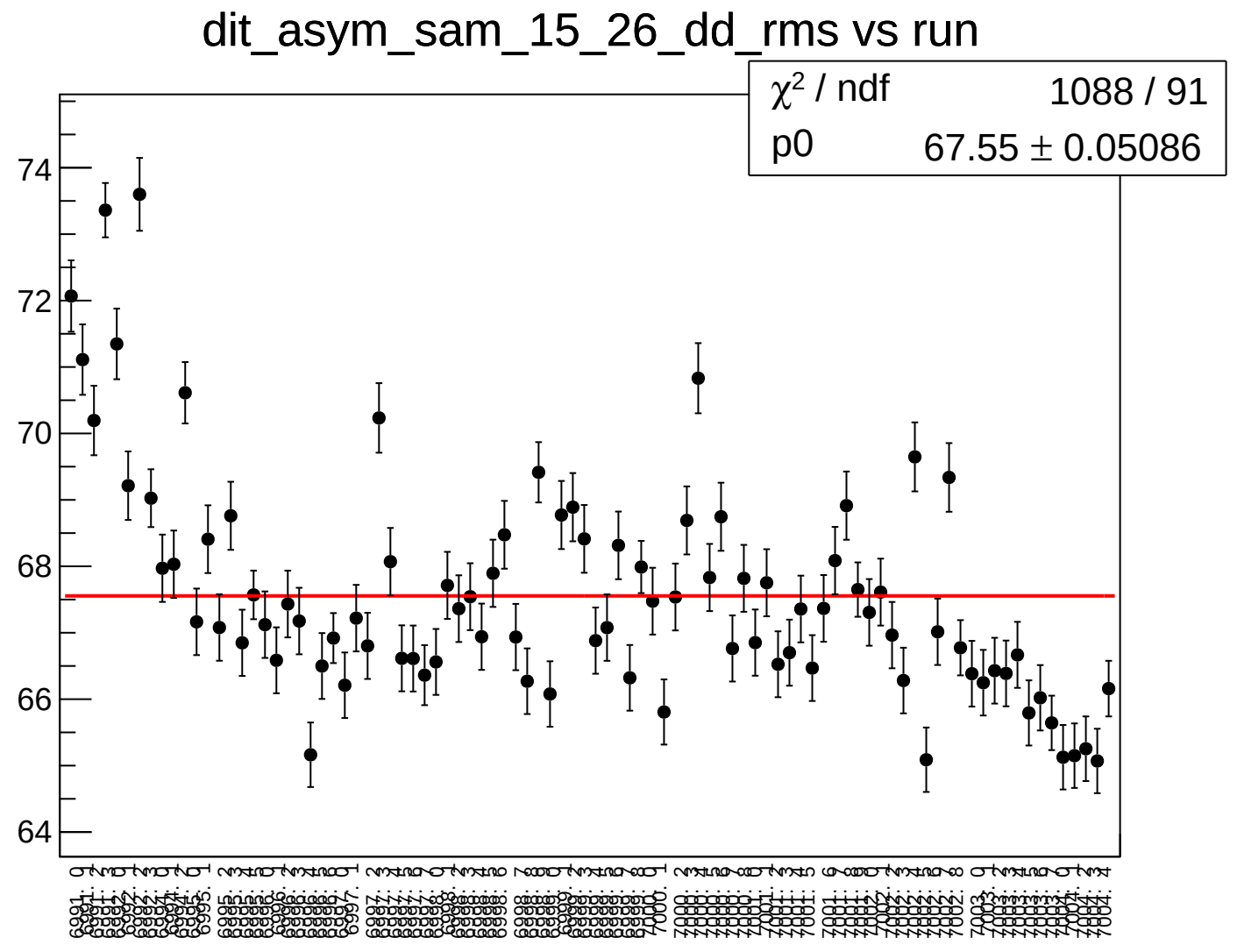

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2100 / 91
p0 60.81 ± 0.04579
66
64
62
60
58
56

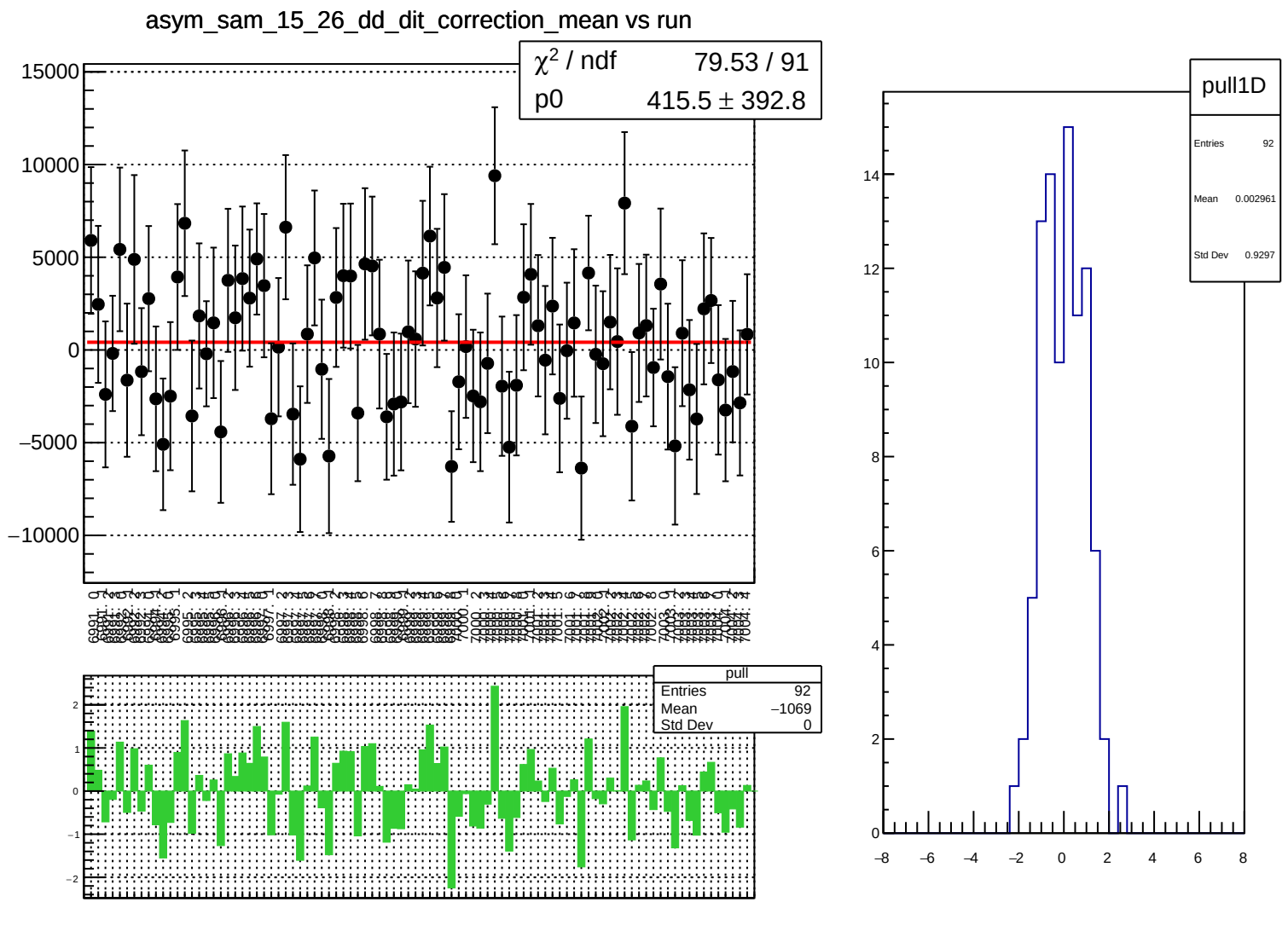

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.85 / 91
p0 392.9 ± 368.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −775.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.004119
Std Dev 0.9258
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

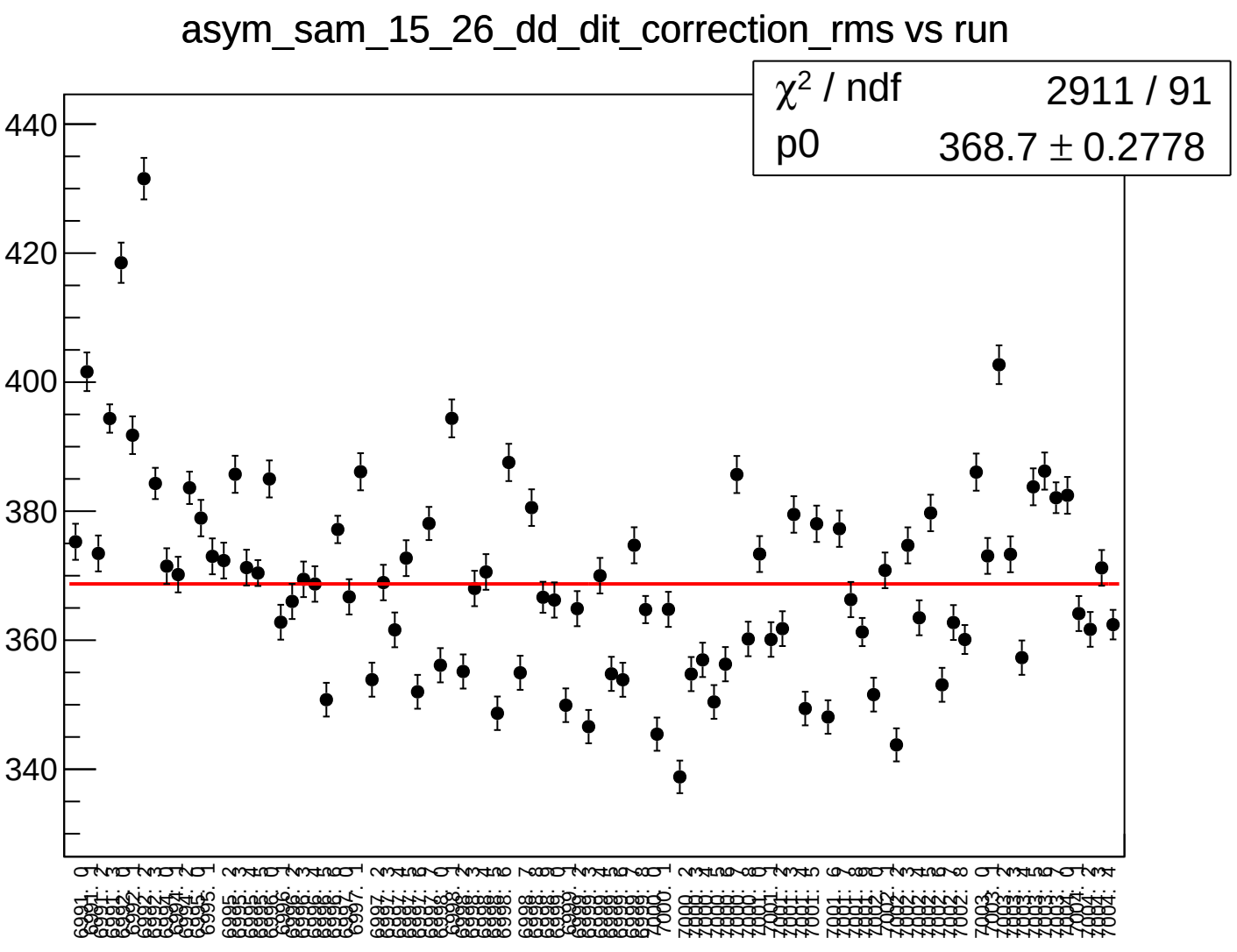

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5820 / 91
p0 345.7 ± 0.2606
440
420
400
380
360
340
320
300

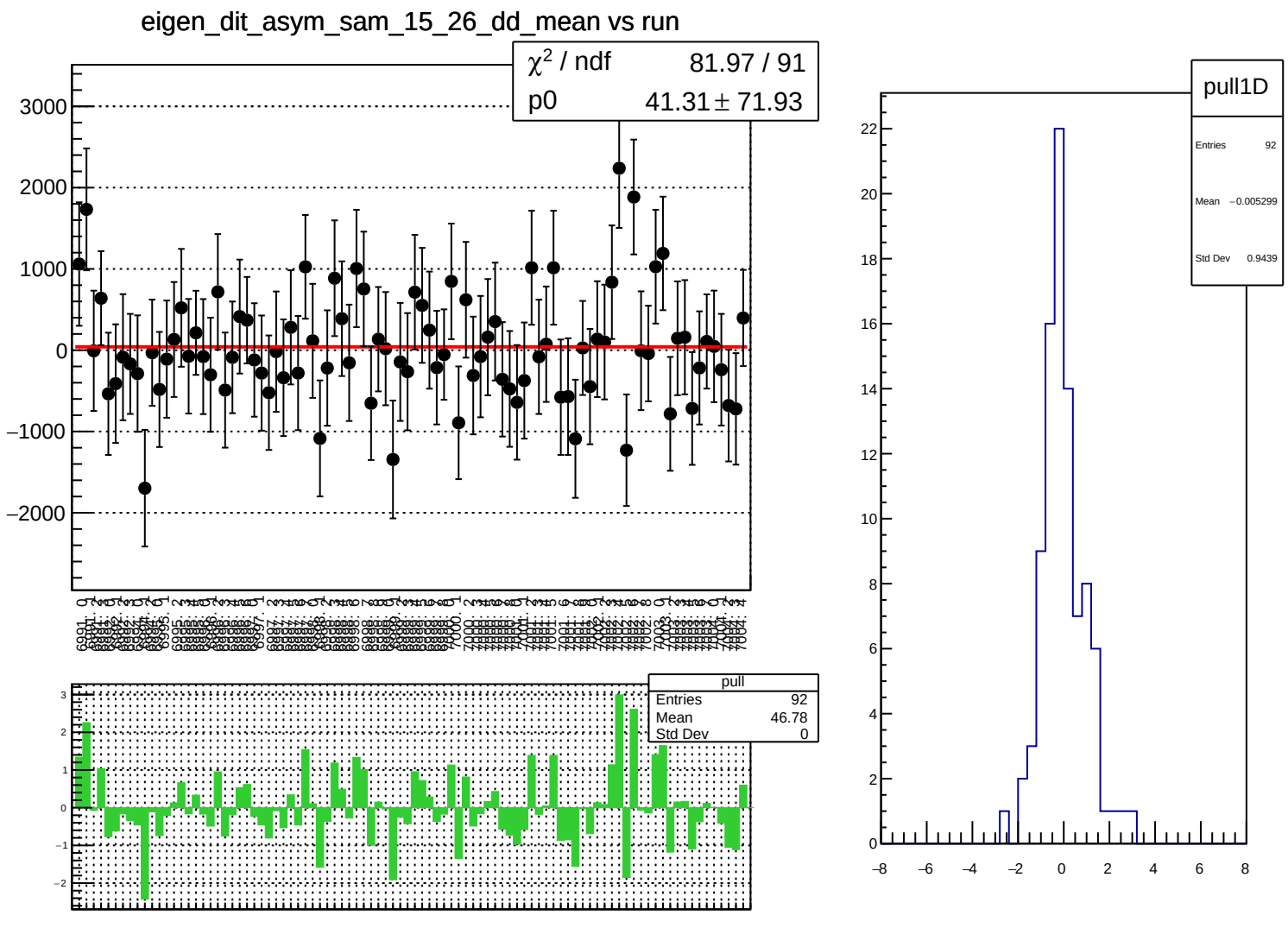

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.97 / 91
p0 41.31 ± 71.93
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 46.75
Std Dev 0
3
2
1
0
−1
−2

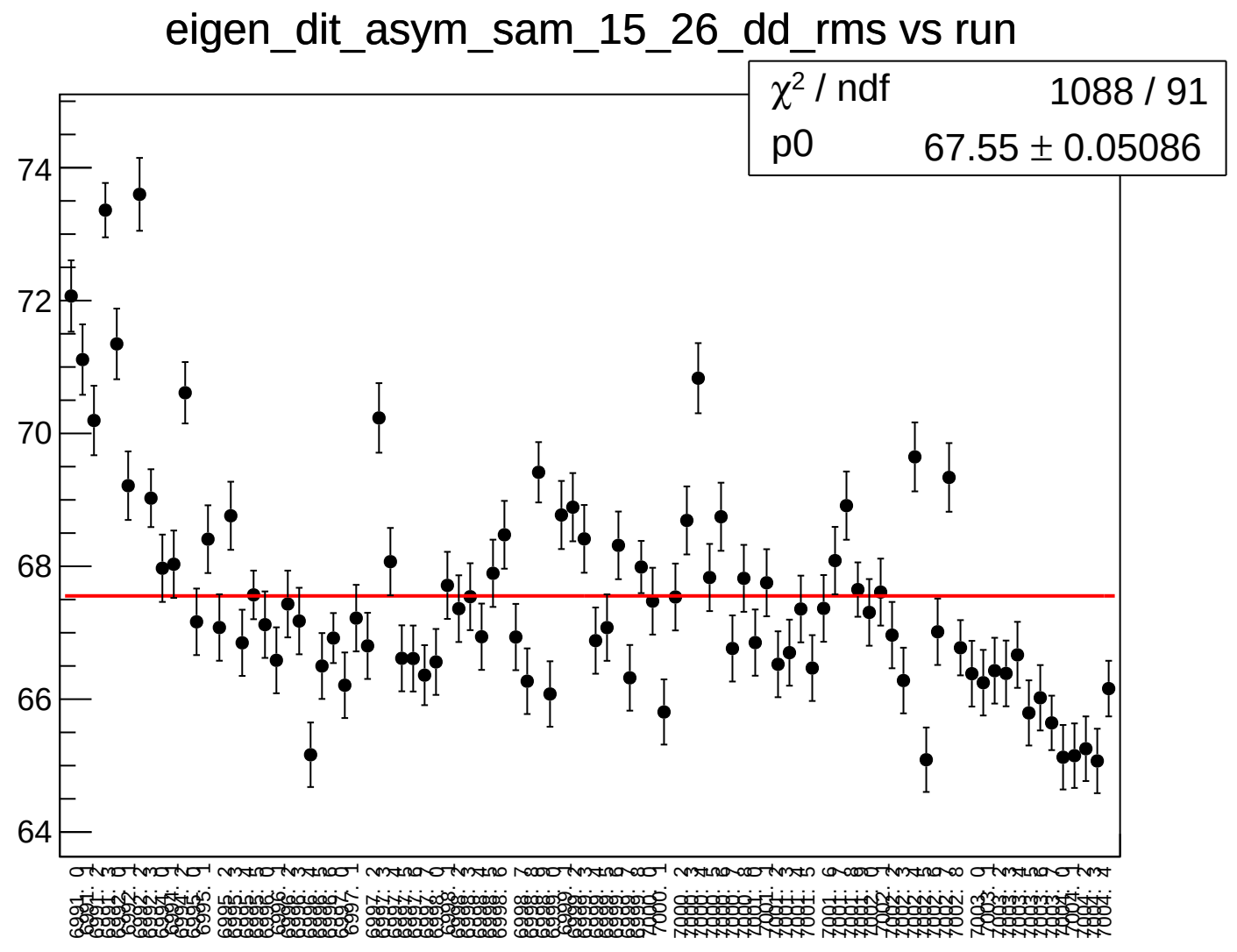

pull1D
Entries 92
Mean −0.005299
Std Dev 0.9439
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

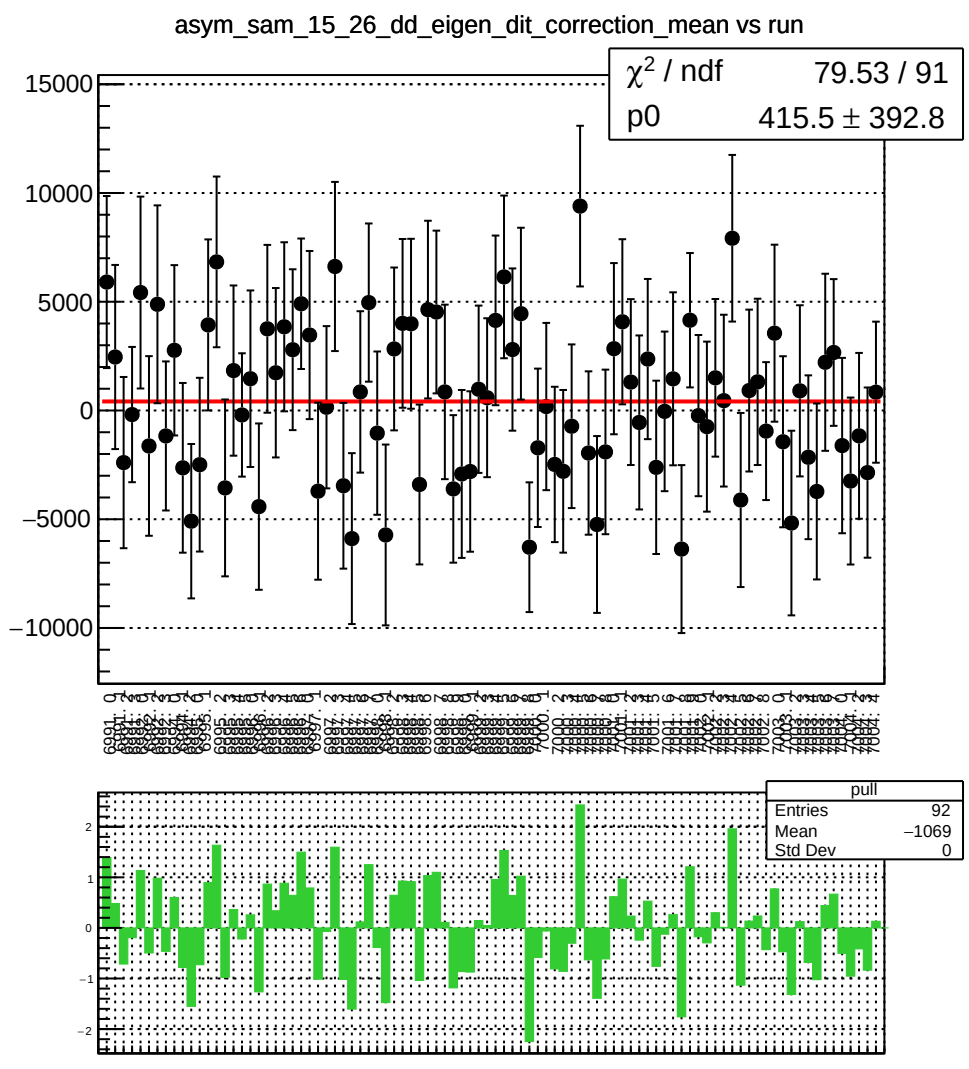

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1088 / 91
p0 67.55 ± 0.05086
74
72
70
68
66
64

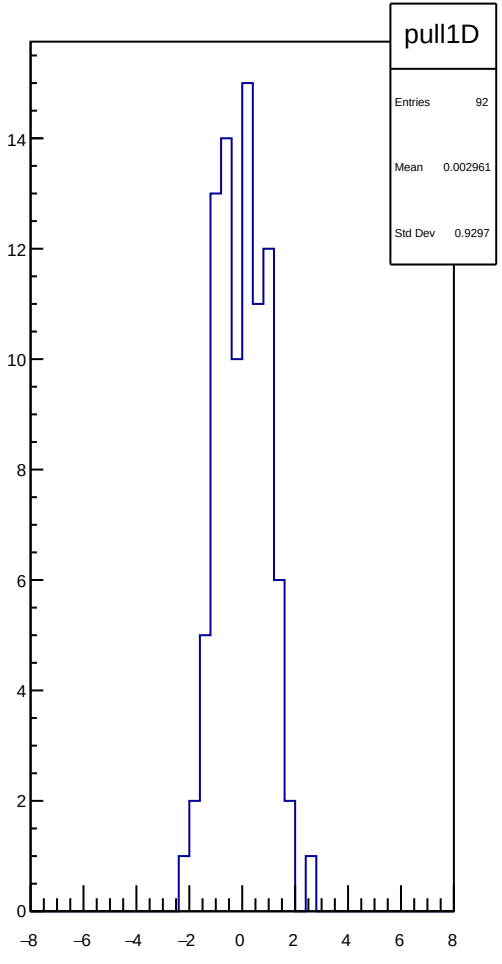

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 79.53 / 91
p0 415.5 ± 392.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1069
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002961
Std Dev 0.9297
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

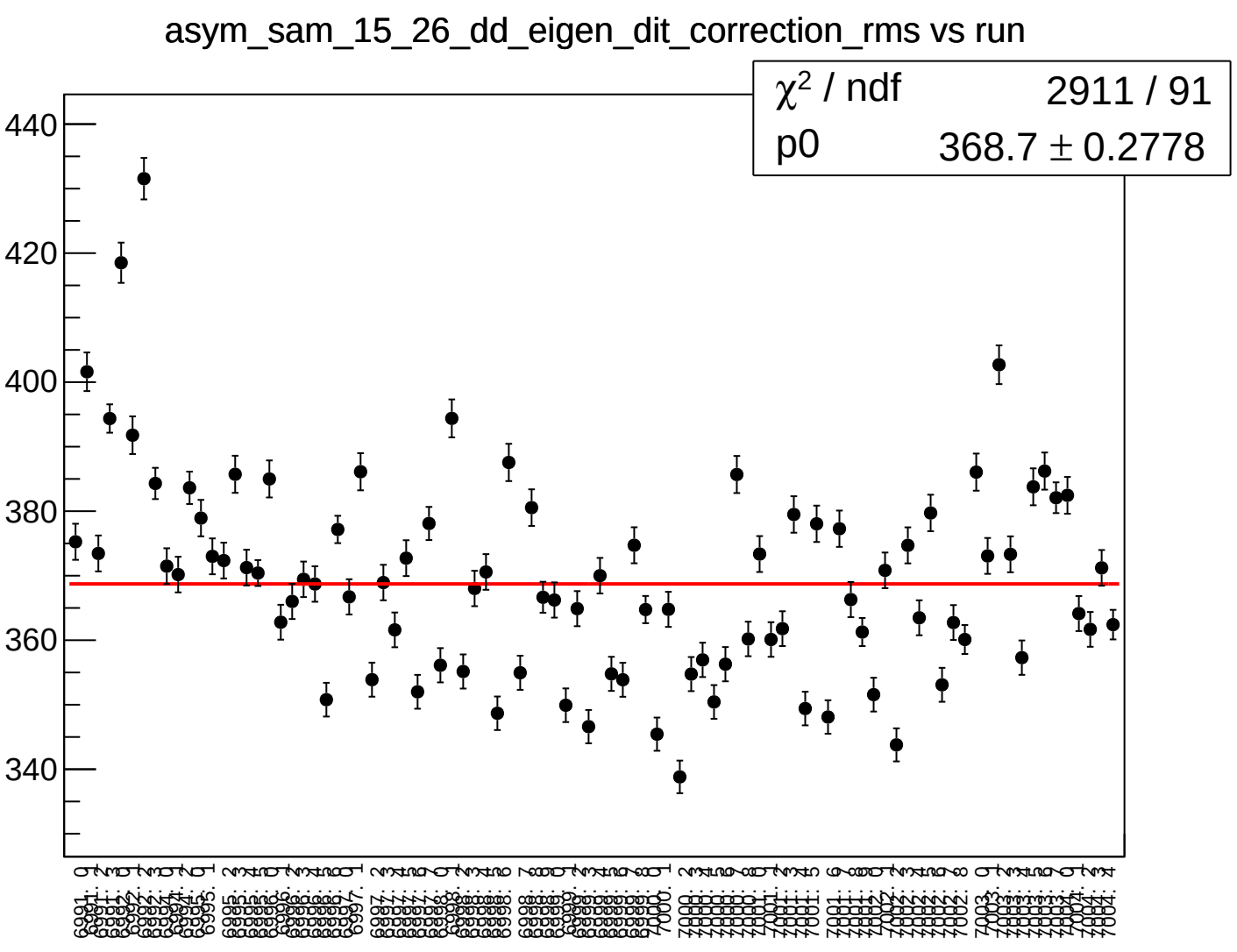

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 2911 / 91
p0 368.7 ± 0.2778
440
420
400
380
360
340

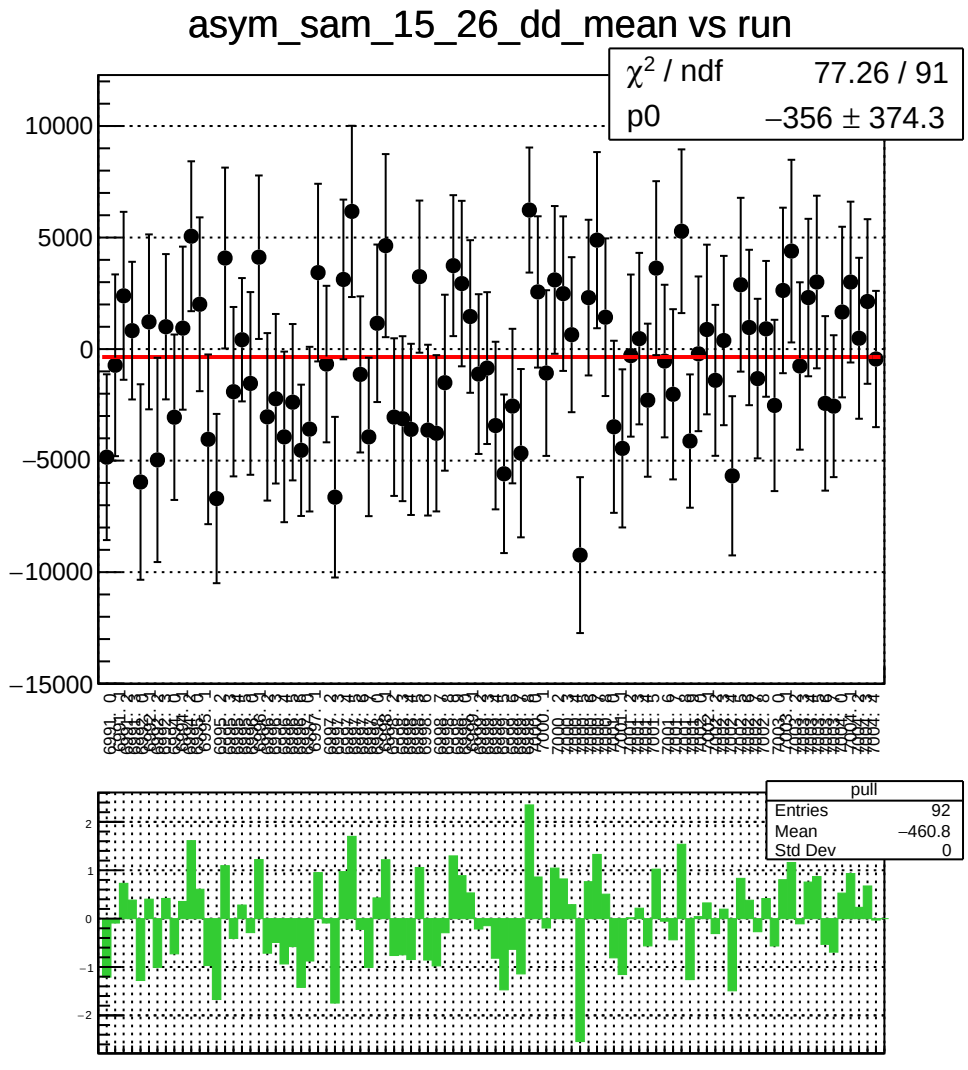

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 81.97 / 91
p0 41.31 ± 71.93
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 46.78
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.005299
Std Dev 0.9439
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

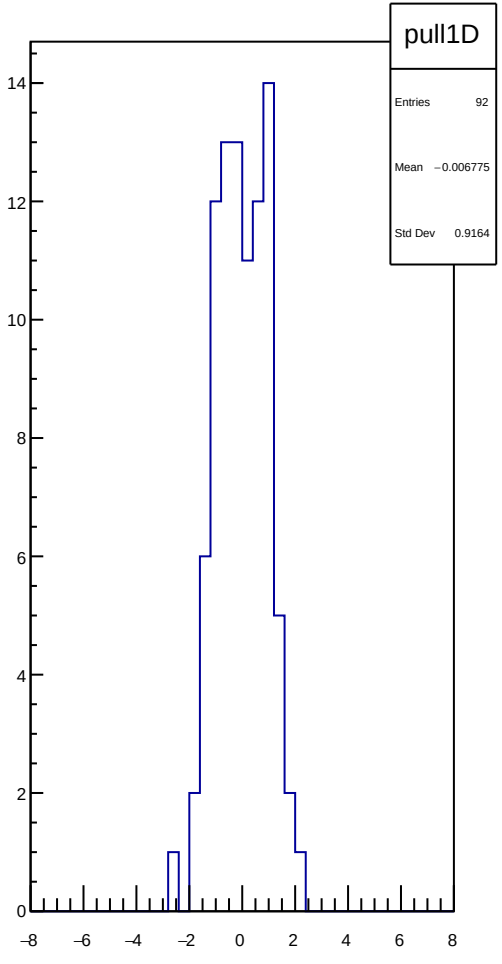

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1088 / 91
p0 67.55 ± 0.05086
74
72
70
68
66
64

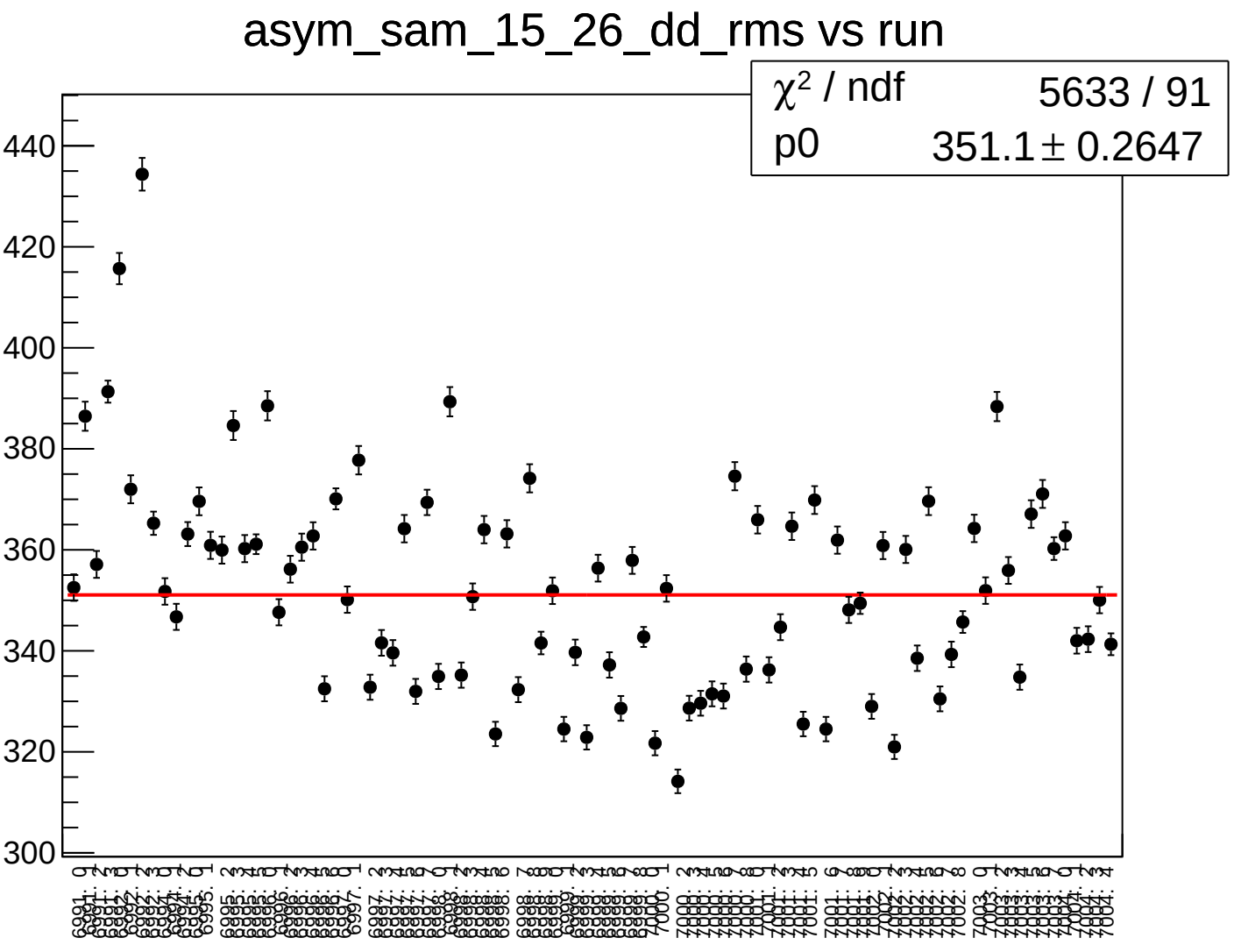

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.53 / 91
p0 415.5 ± 392.8
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1069
Std Dev 0
2
1
0
−1
−2

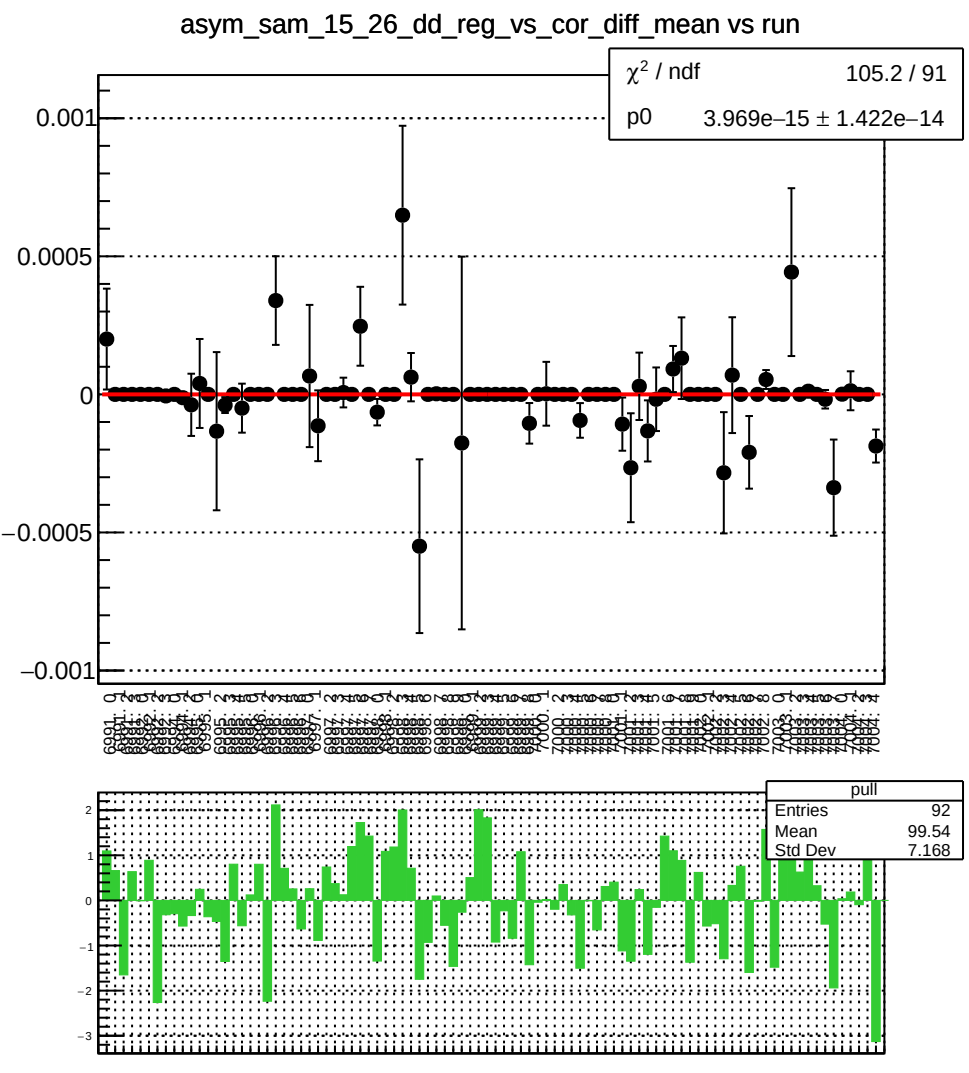

pull1D
Entries 92
Mean 0.002961
Std Dev 0.9297
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

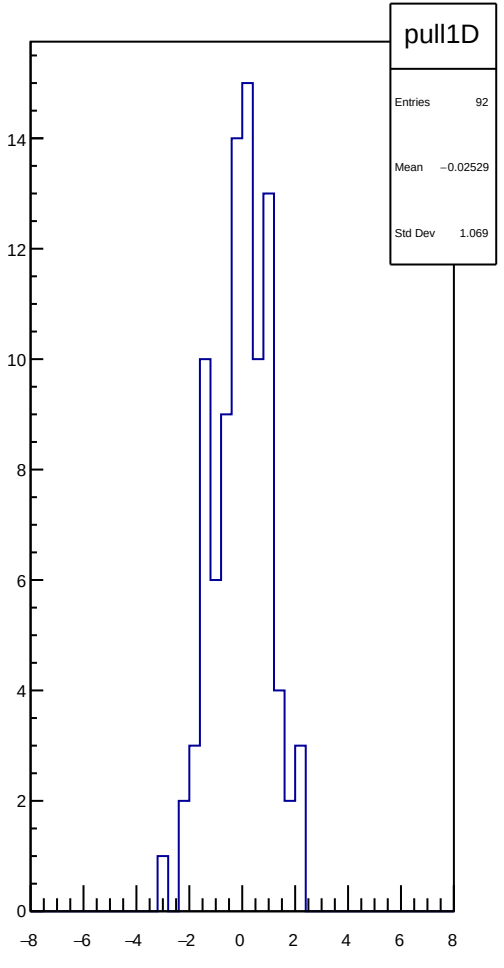

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2911 / 91
p0 368.7 ± 0.2778
440
420
400
380
360
340

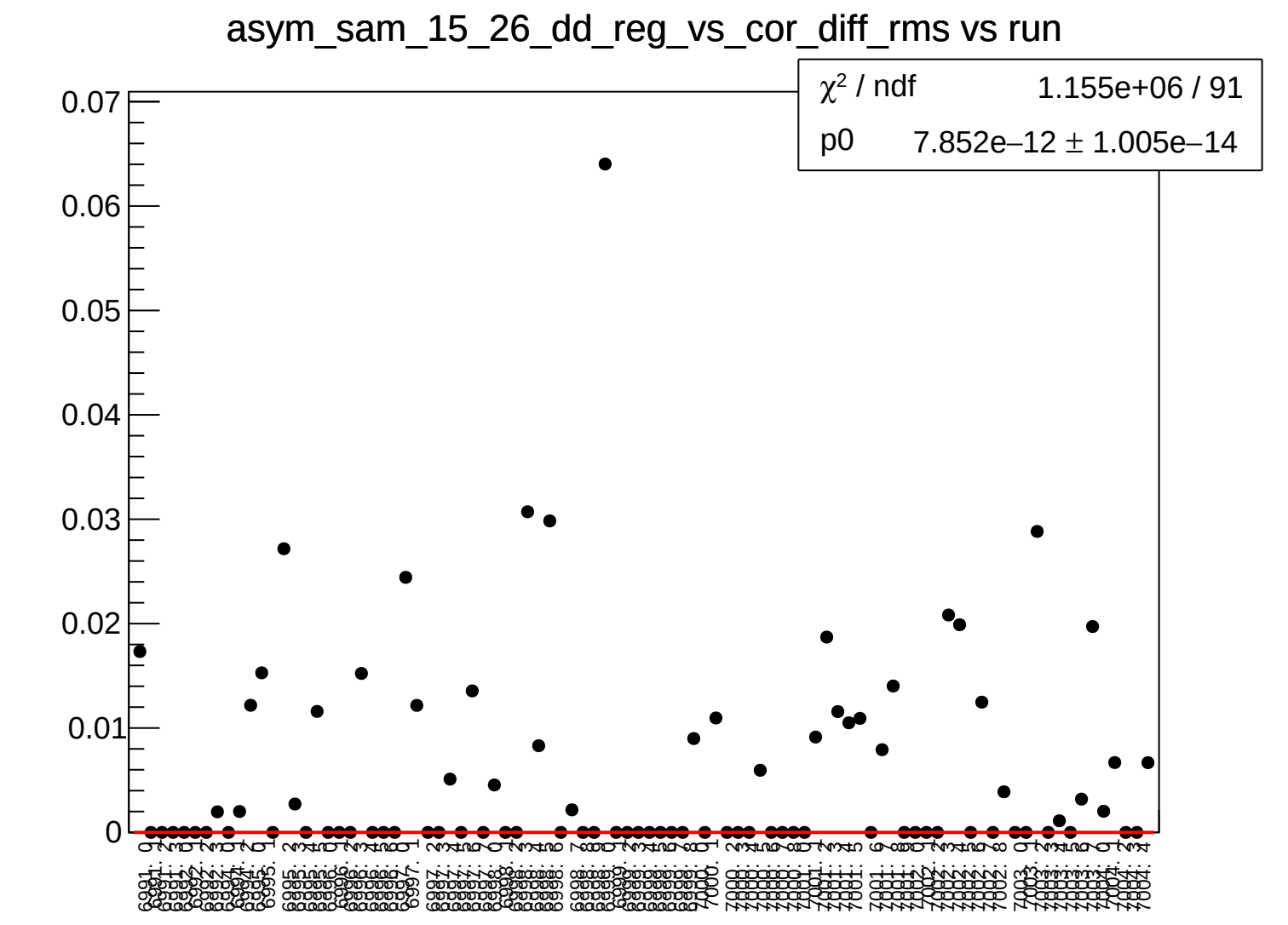

asym_sam_15_26_dd_mean vs run
χ² / ndf 77.26 / 91
p0 −356 ± 374.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −460.8
Std Dev 0
2
1
0
−1
−2

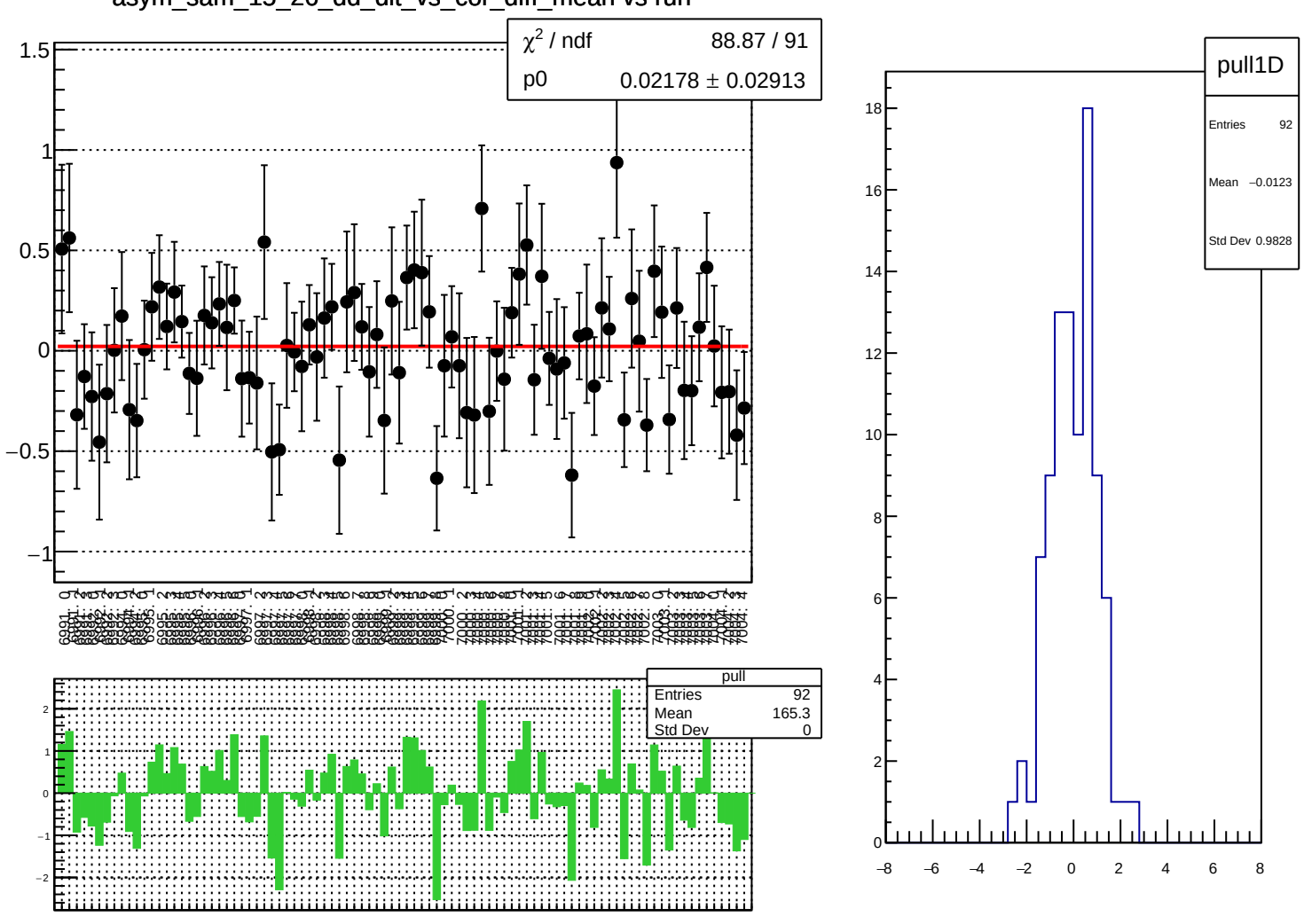

pull1D
Entries 92
Mean −0.006775
Std Dev 0.9164
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

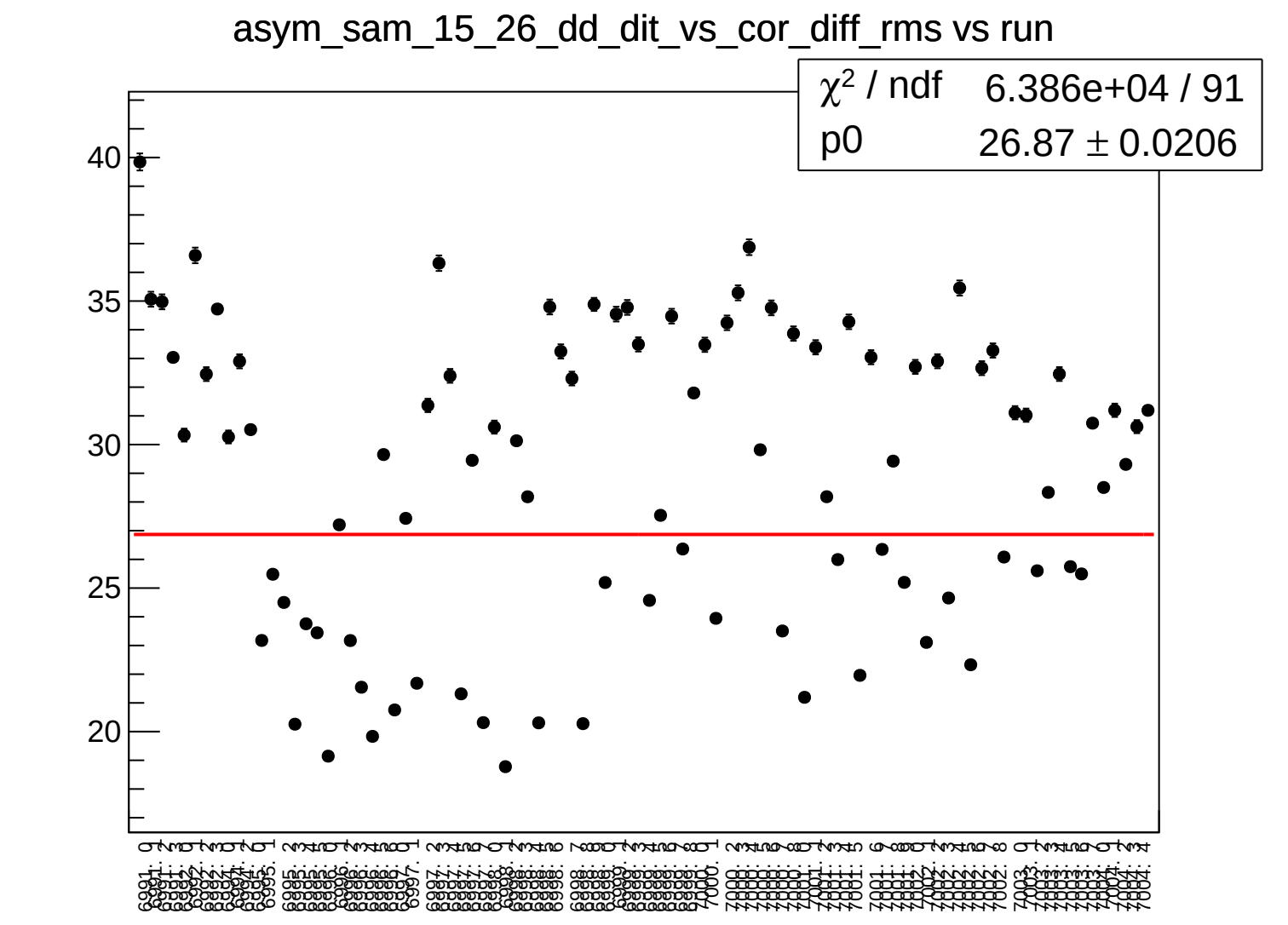

asym_sam_15_26_dd_rms vs run
χ² / ndf 5633 / 91
p0 351.1 ± 0.2647
440
420
400
380
360
340
320
300

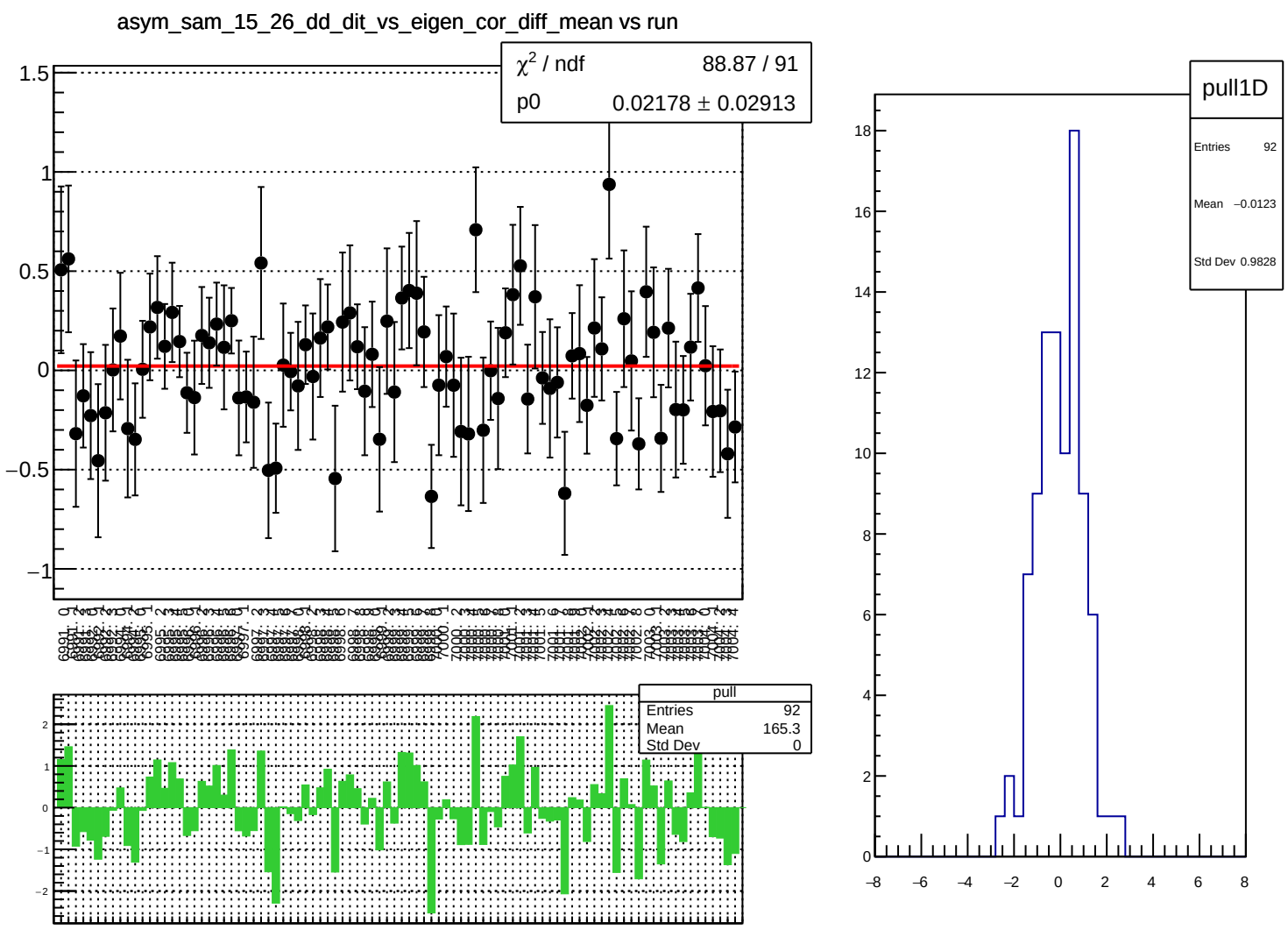

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 91
p0 3.969e−15 ± 1.422e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 99.54
Std Dev 7.168
2
1
0
−1
−2
−3

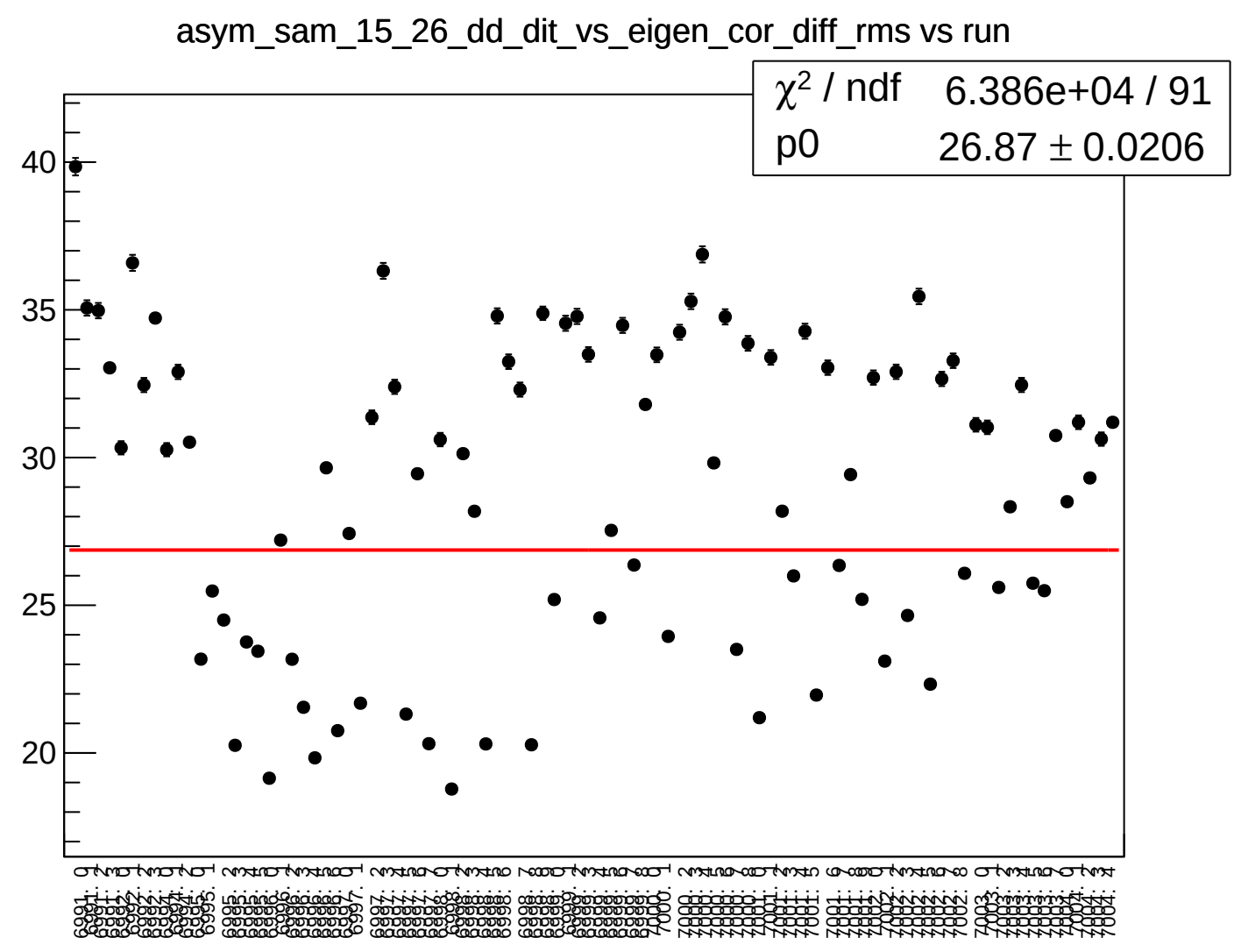

pull1D
Entries 92
Mean −0.02529
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

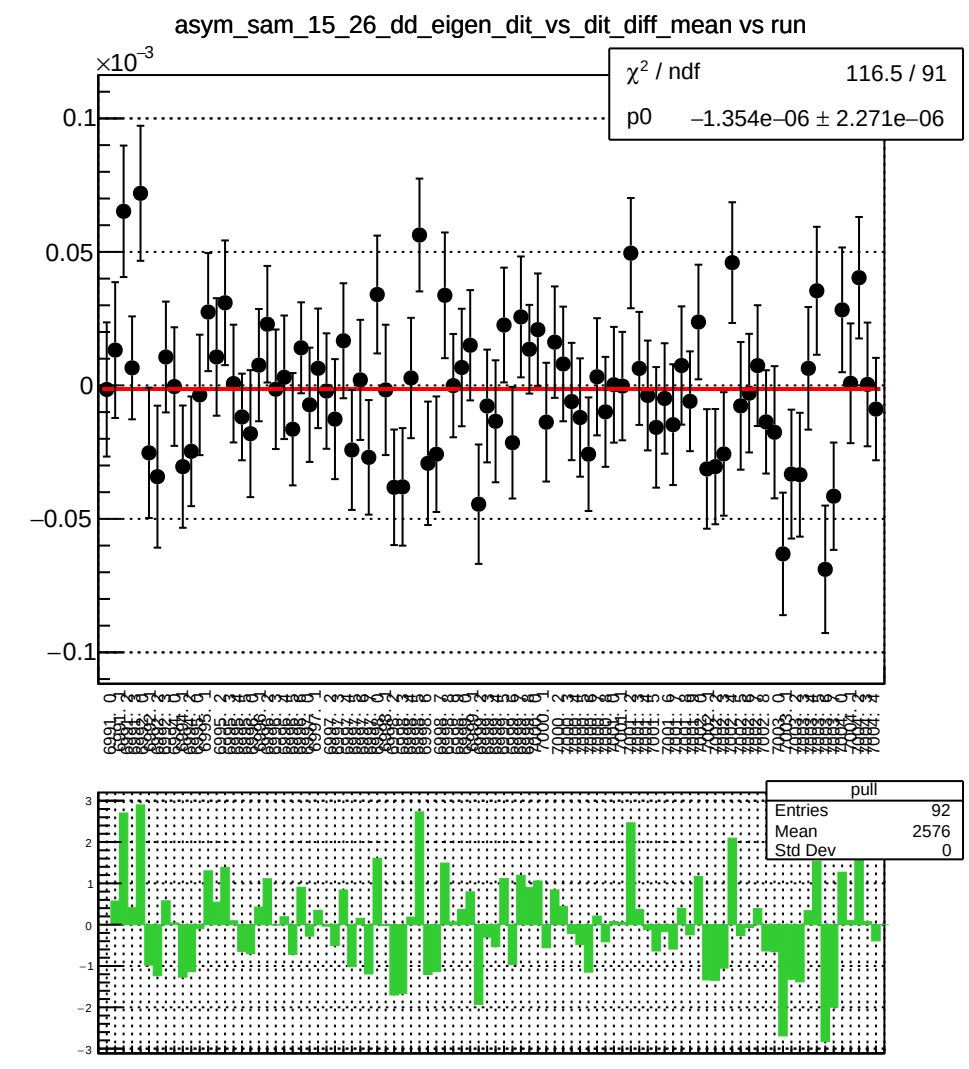

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.155e+06 / 91
p0 7.852e−12 ± 1.005e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

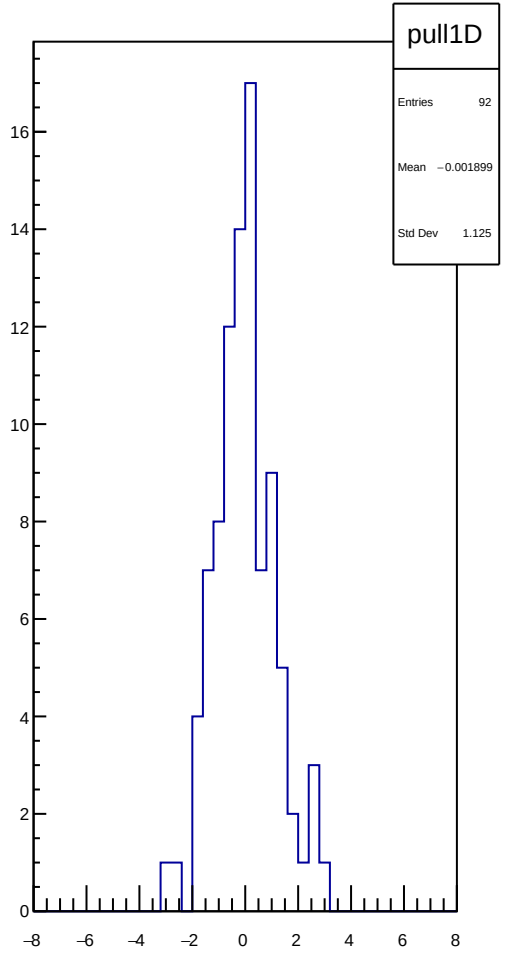

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.87 / 91
p0 0.02178 ± 0.02913
pull
Entries 92
Mean 165.3
Std Dev 0
pull1D
Entries 92
Mean −0.0123
Std Dev 0.9828

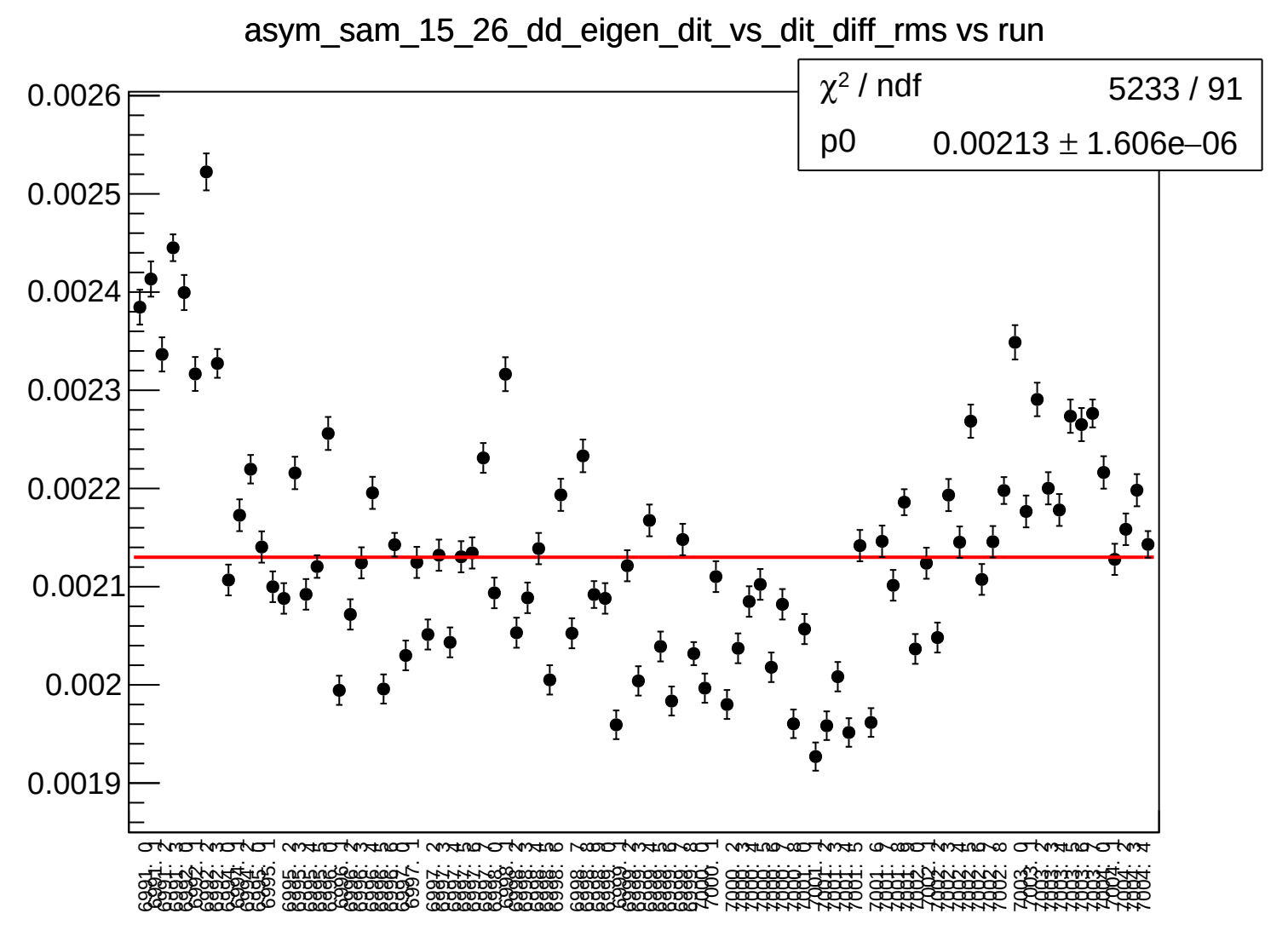

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.386e+04 / 91
p0 26.87 ± 0.0206
40
35
30
25
20

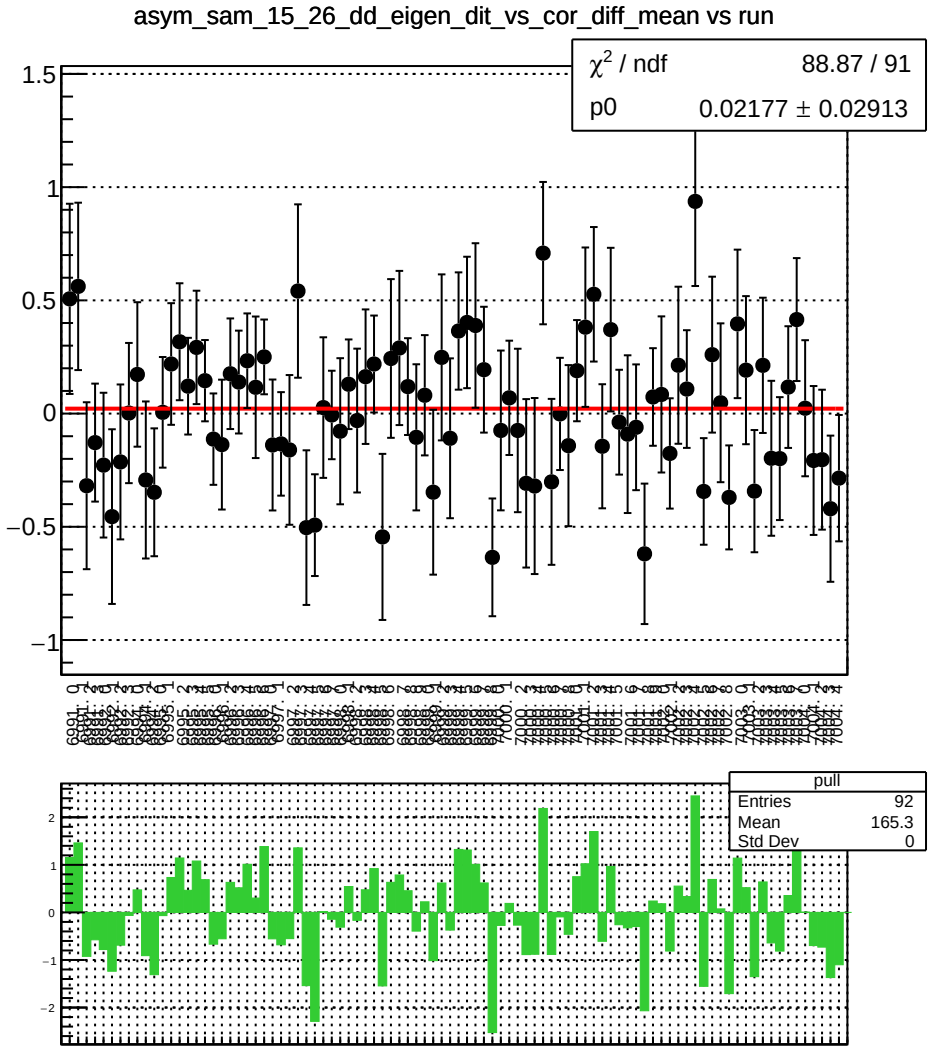

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.87 / 91
p0 0.02178 ± 0.02913
pull
Entries 92
Mean 165.3
Std Dev 0
pull1D
Entries 92
Mean −0.0123
Std Dev 0.9828

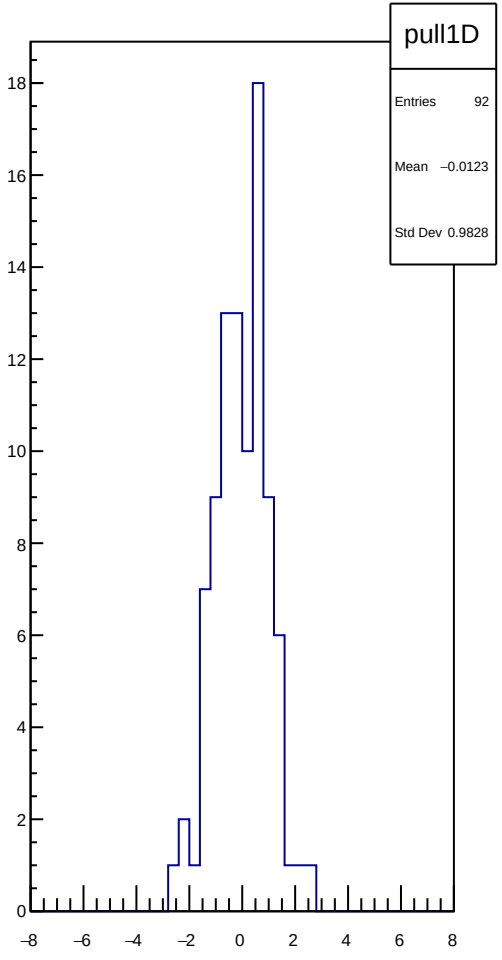

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.386e+04 / 91
p0 26.87 ± 0.0206
40
35
30
25
20

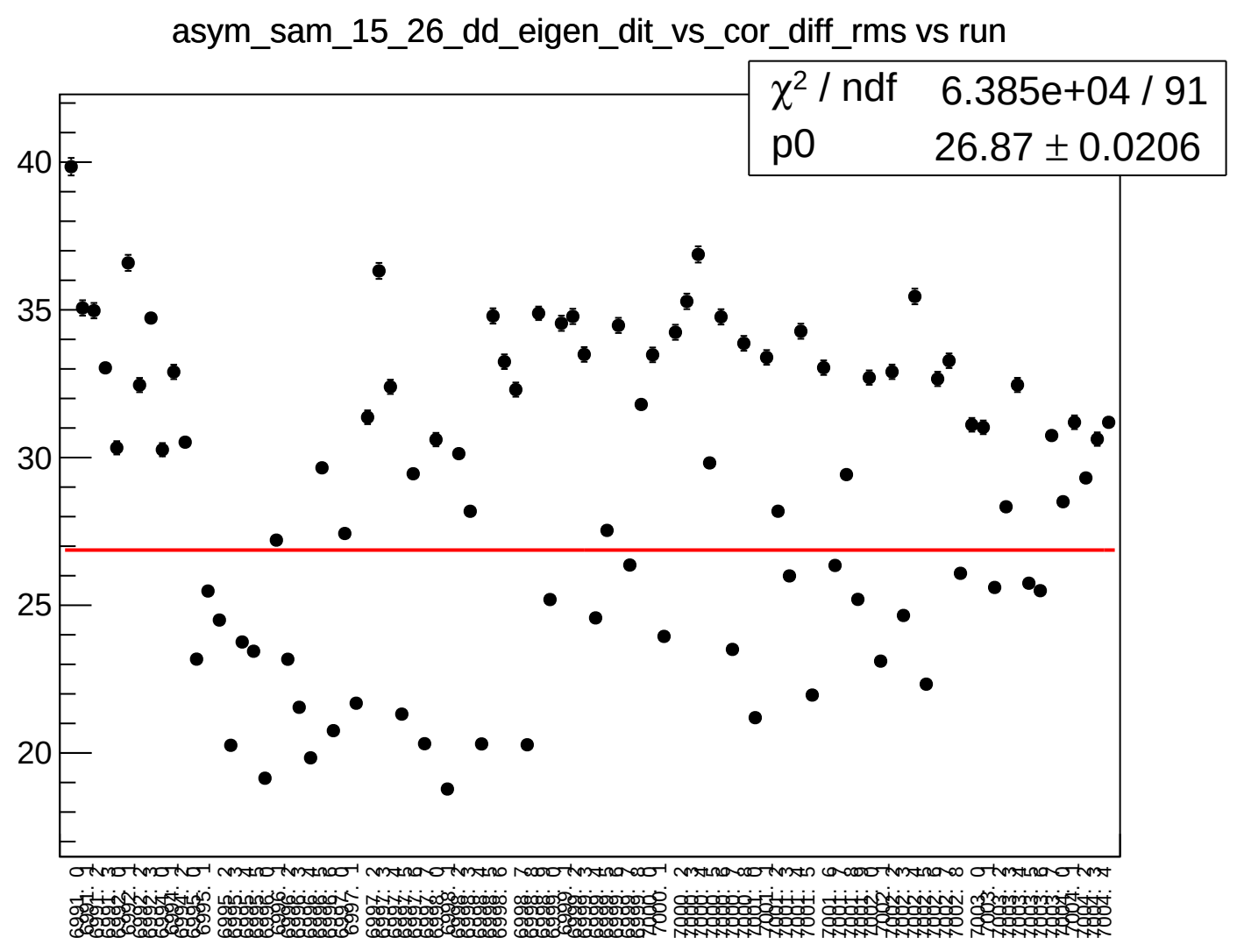

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.5 / 91
p0 −1.354e−06 ± 2.271e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 2576
Std Dev 0
3
2
1
0
−1
−2
−3

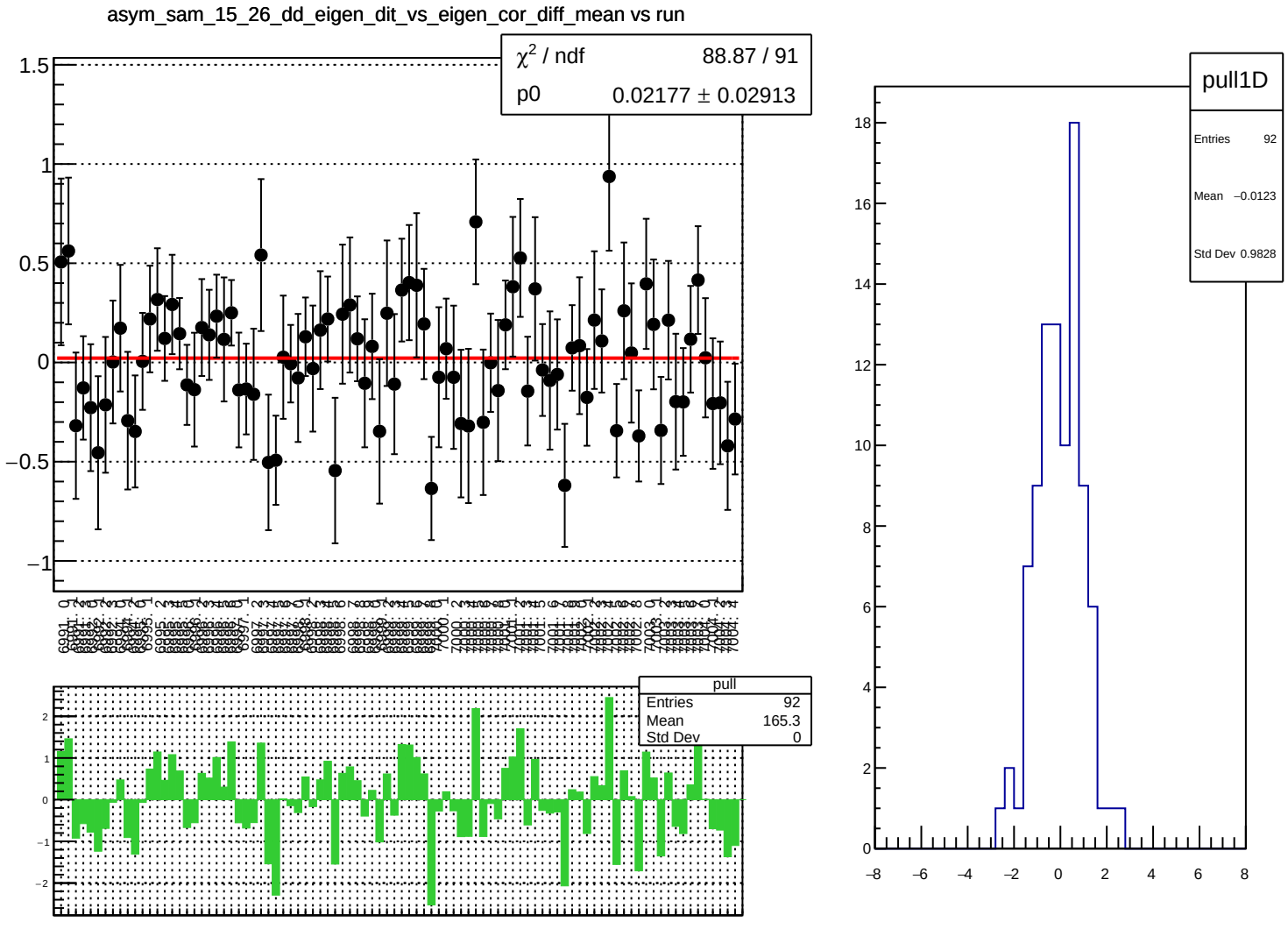

pull1D
Entries 92
Mean −0.001899
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

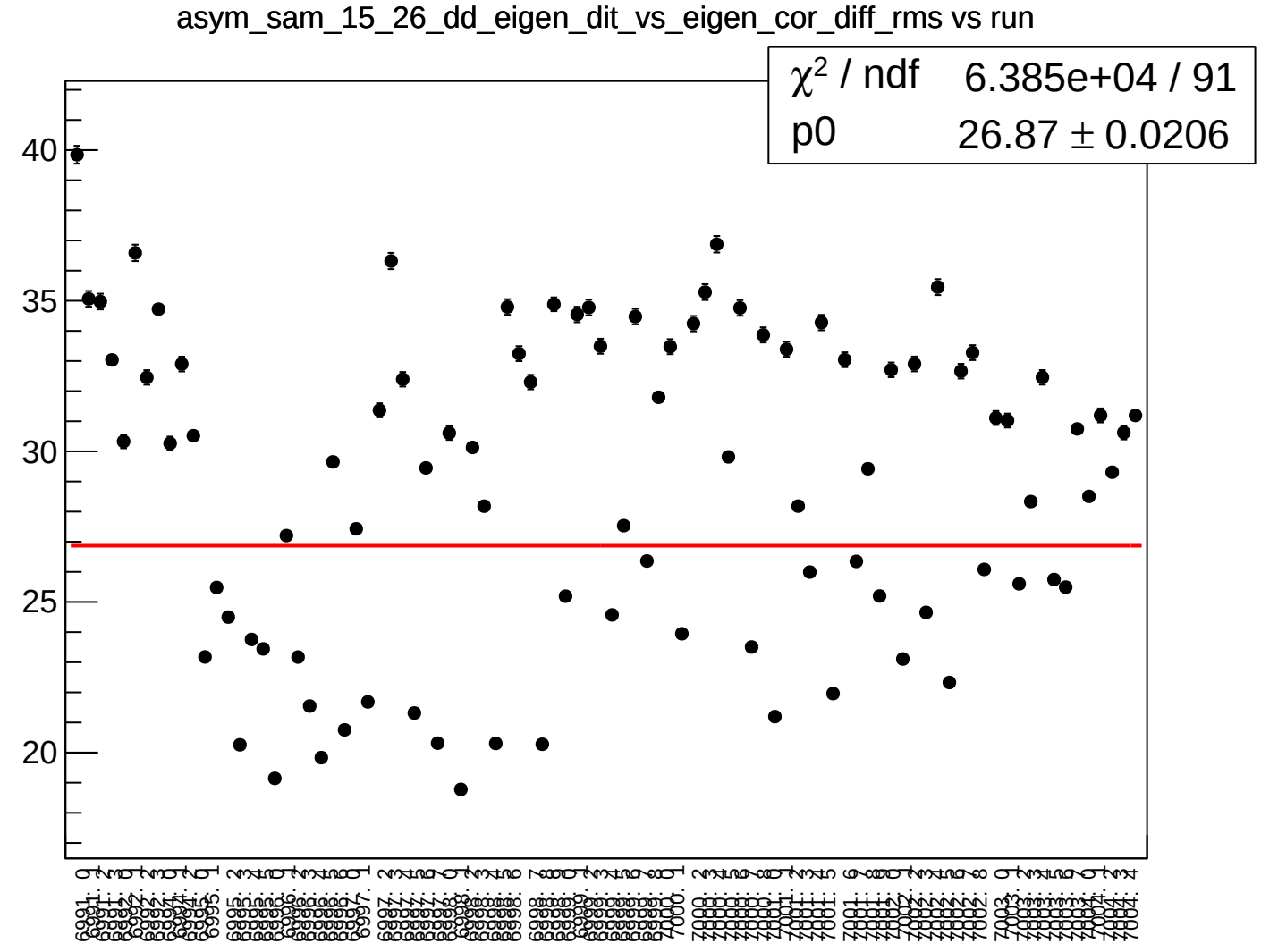

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5233 / 91
p0 0.00213 ± 1.606e–06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

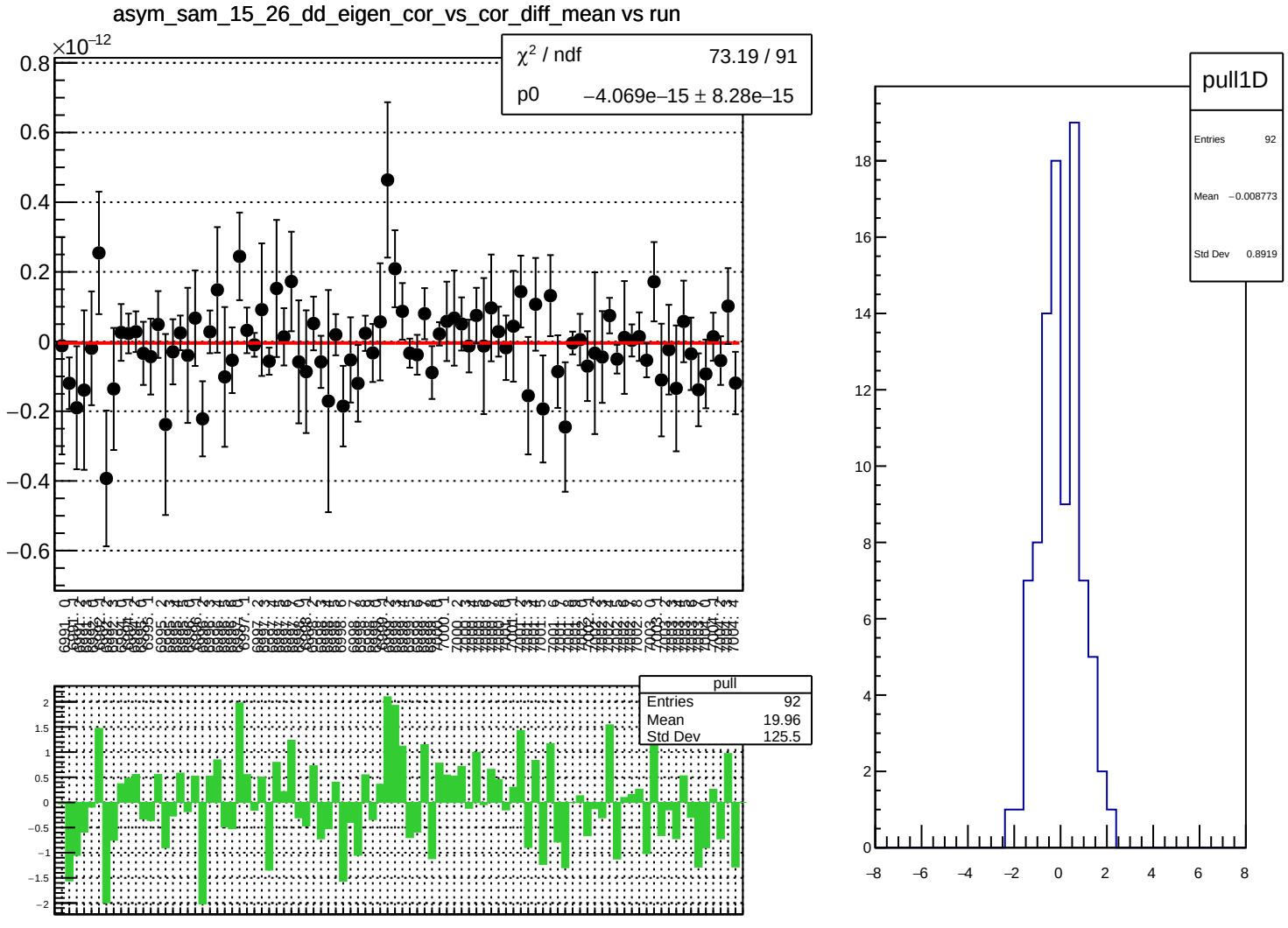

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.87 / 91
p0 0.02177 ± 0.02913
pull
Entries 92
Mean 165.3
Std Dev 0

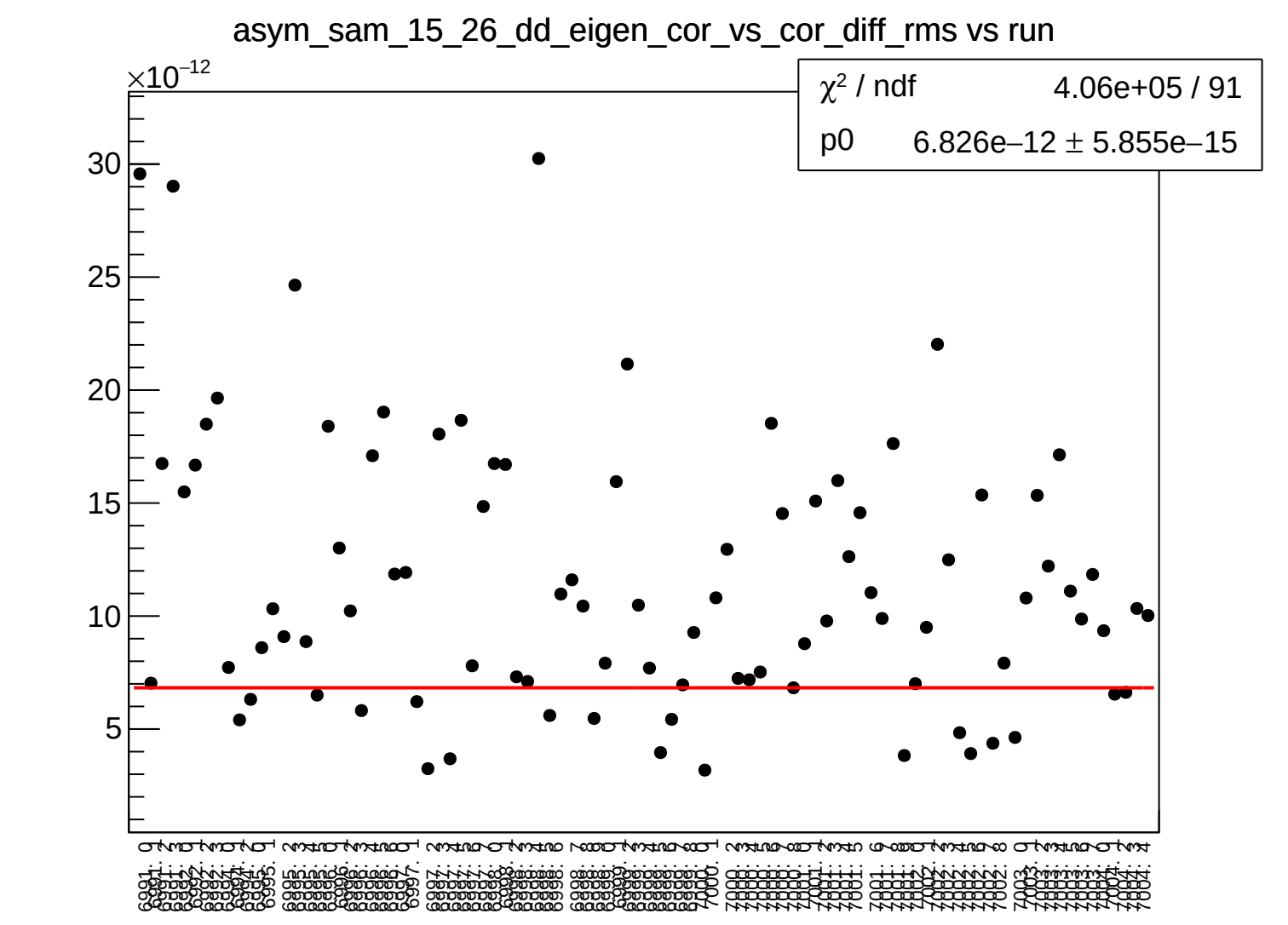

pull1D
Entries 92
Mean −0.0123
Std Dev 0.9828

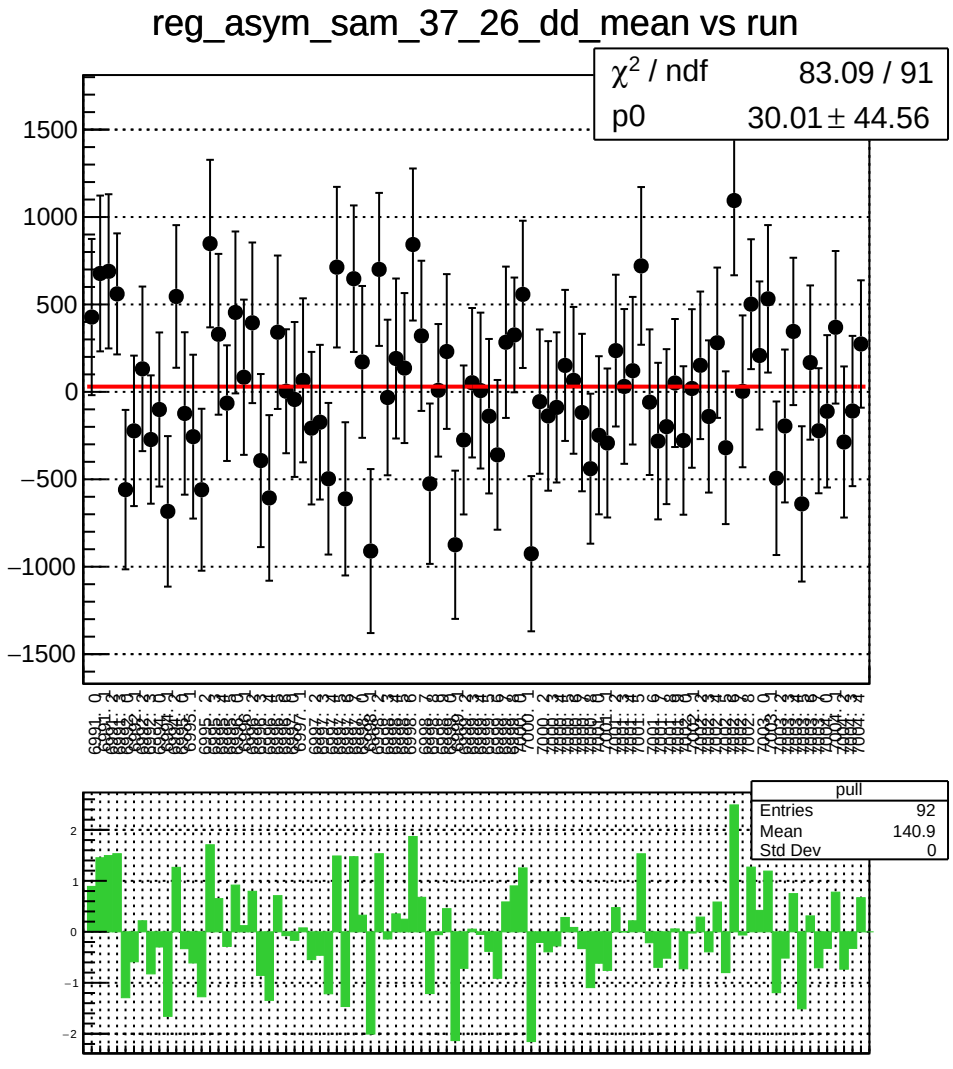

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.385e+04 / 91
p0 26.87 ± 0.0206
40
35
30
25
20

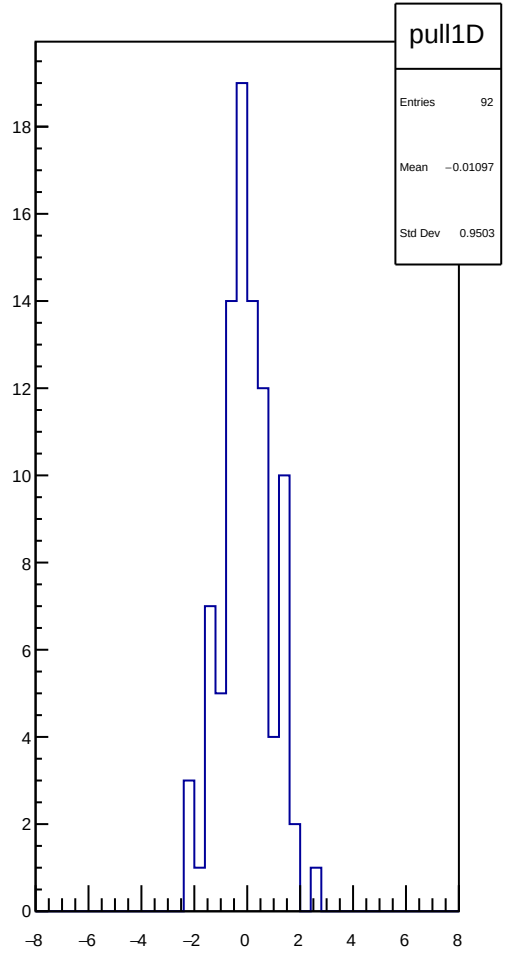

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.87 / 91
p0 0.02177 ± 0.02913
pull
Entries 92
Mean 165.3
Std Dev 0
pull1D
Entries 92
Mean −0.0123
Std Dev 0.9828

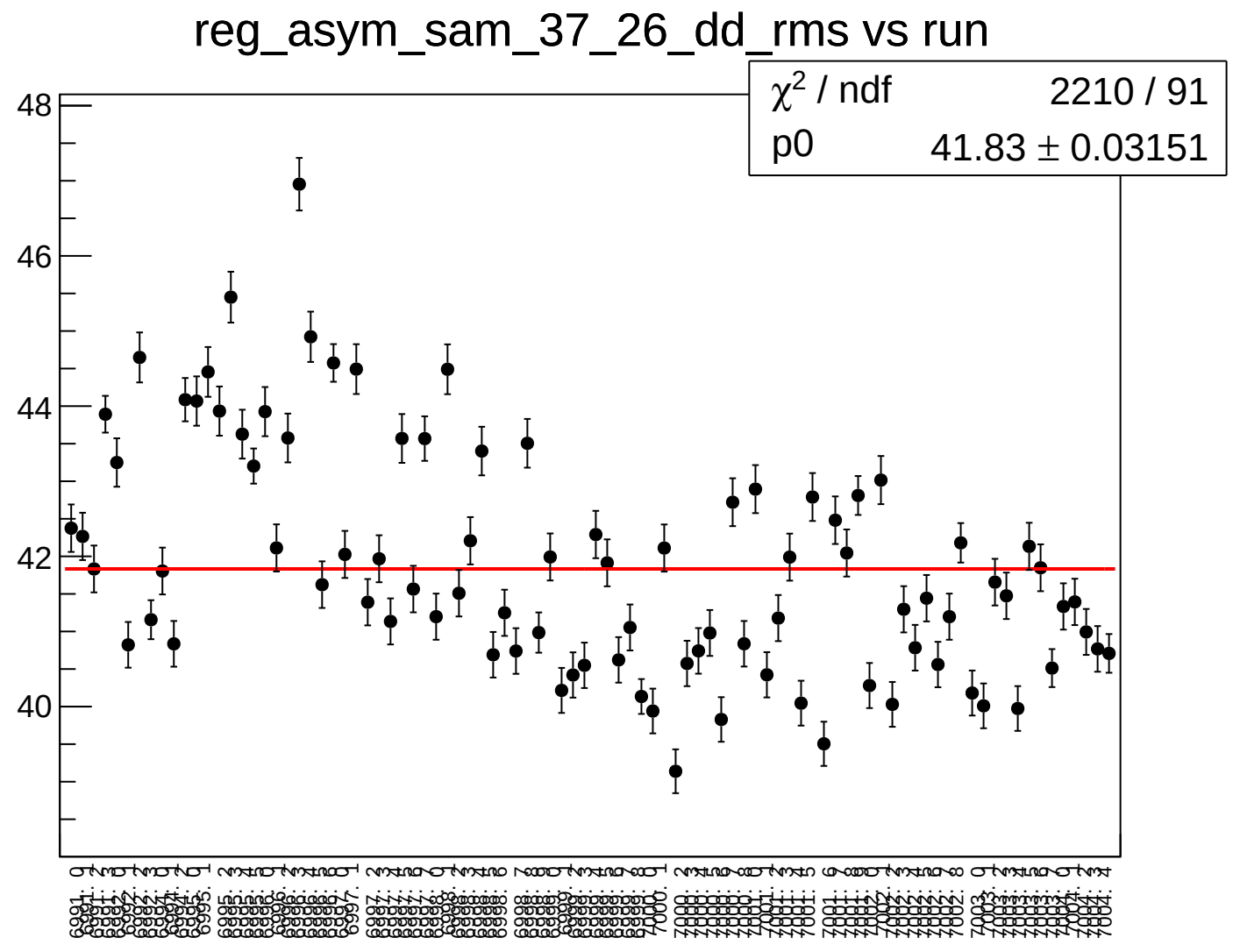

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.385e+04 / 91
p0 26.87 ± 0.0206
40
35
30
25
20

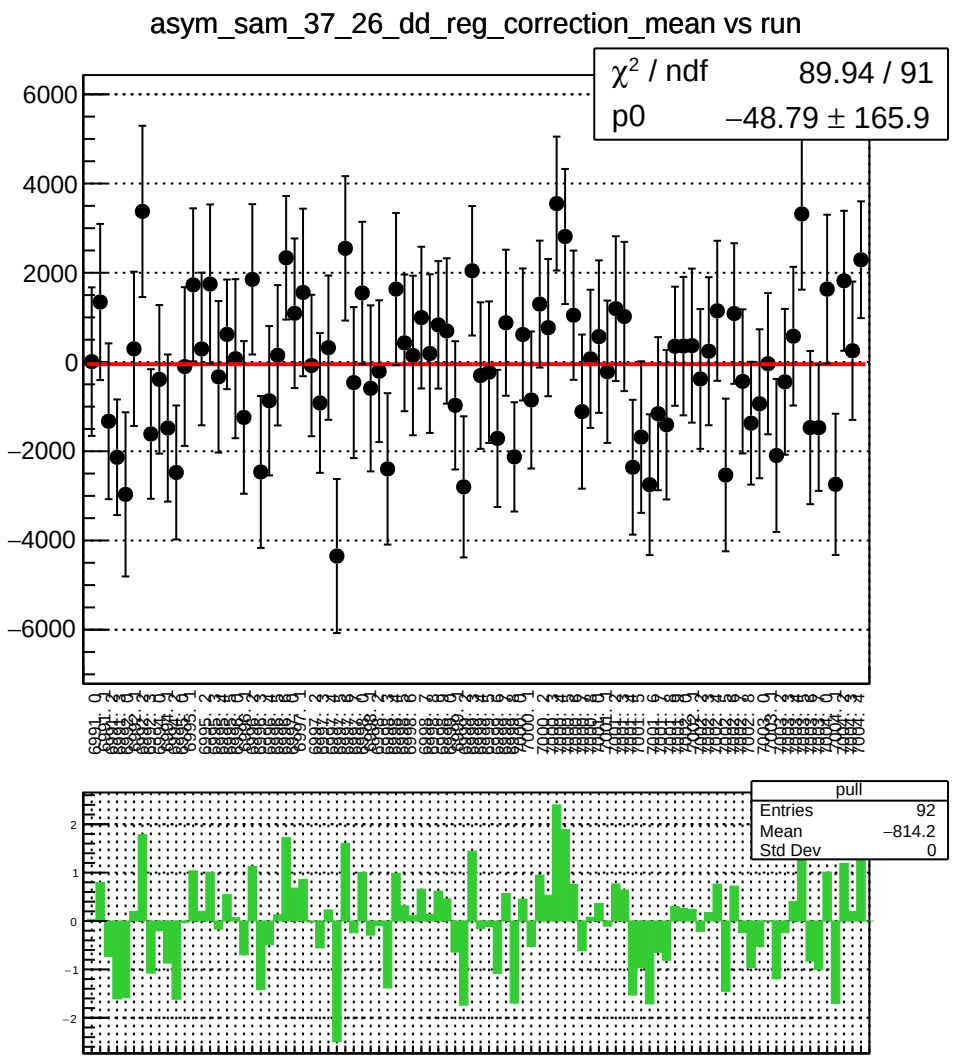

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.19 / 91
p0 −4.069e−15 ± 8.28e−15
pull
Entries 92
Mean 19.96
Std Dev 125.5
pull1D
Entries 92
Mean −0.008773
Std Dev 0.8919

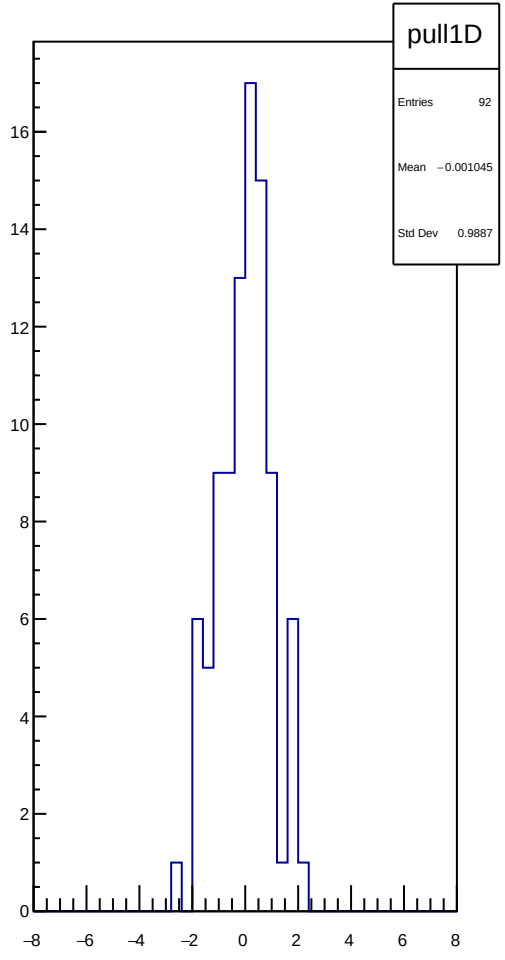

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.06e+05 / 91
p0 6.826e−12 ± 5.855e−15
30
25
20
15
10
5

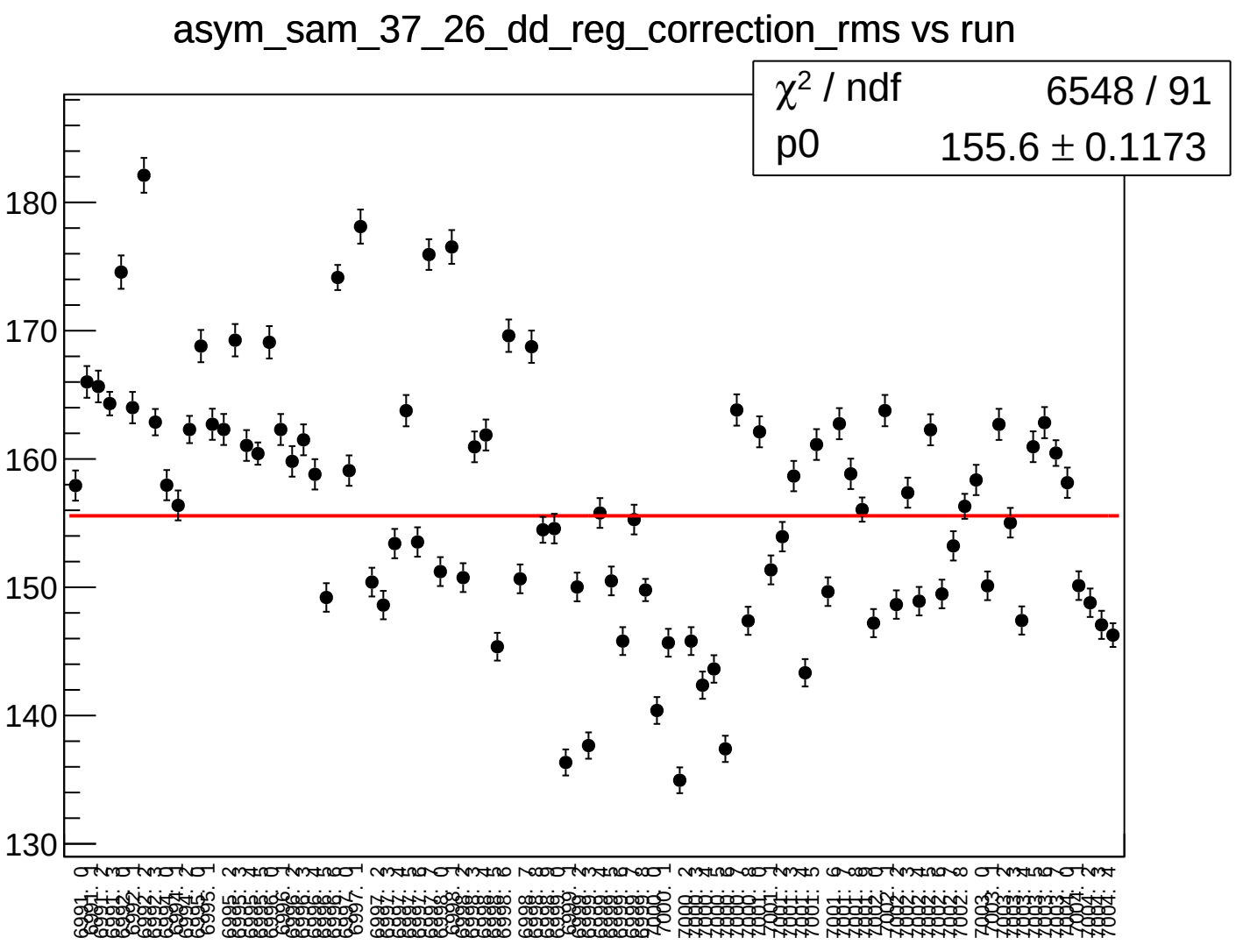

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 83.09 / 91
p0 30.01 ± 44.56
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean 140.9
Std Dev 0
2
1
0
−1
−2

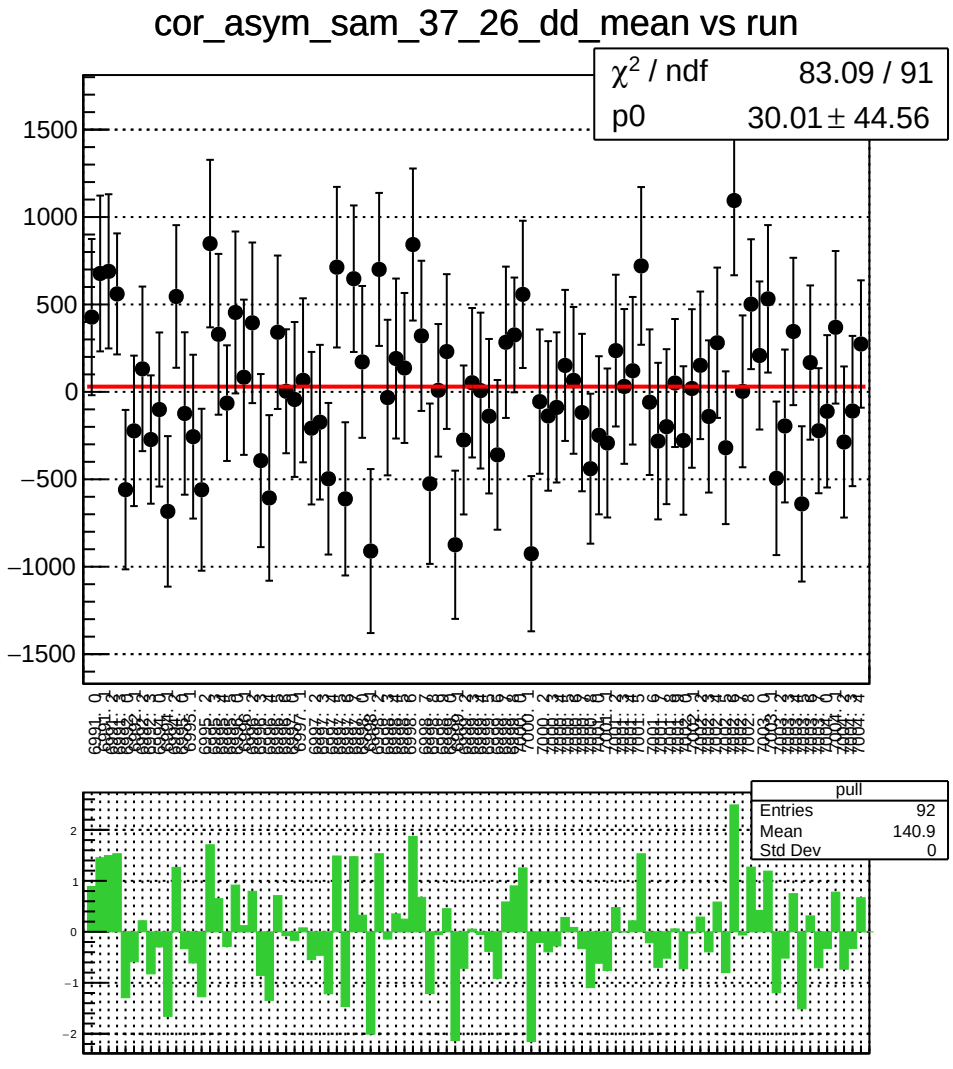

pull1D
Entries 92
Mean −0.01097
Std Dev 0.9503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

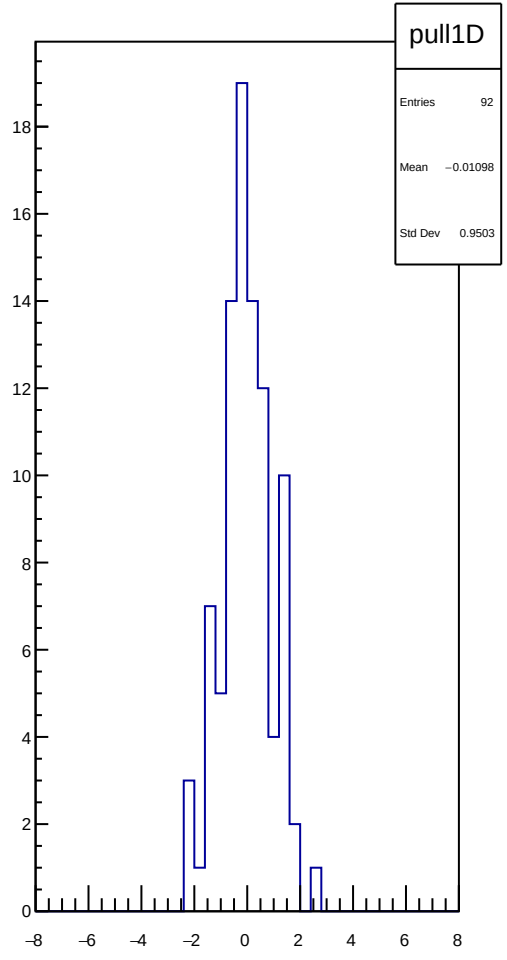

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2210 / 91
p0 41.83 ± 0.03151
48
46
44
42
40

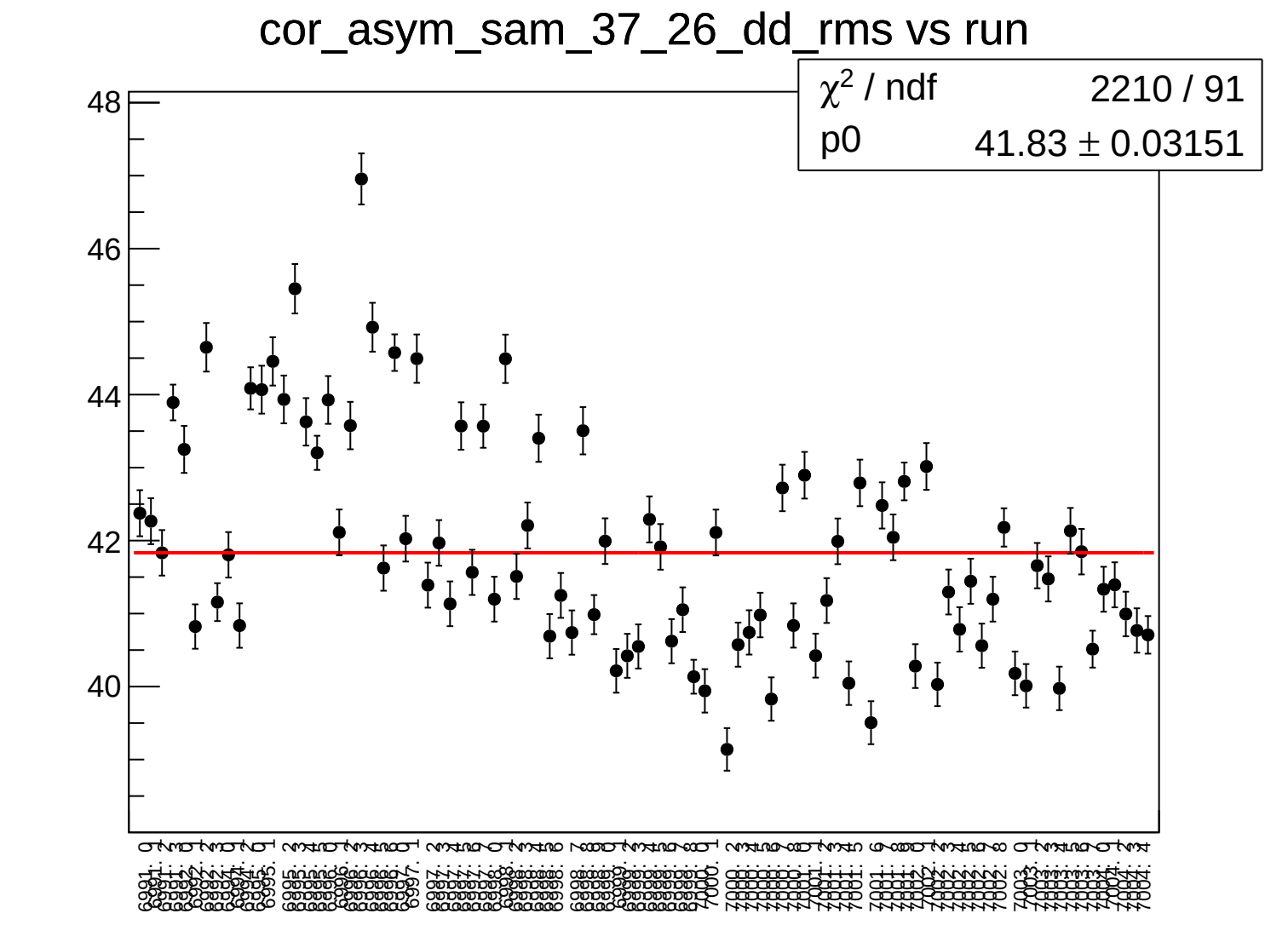

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 89.94 / 91
p0 −48.79 ± 165.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −814.2
Std Dev 0
2
1
0
−1
−2

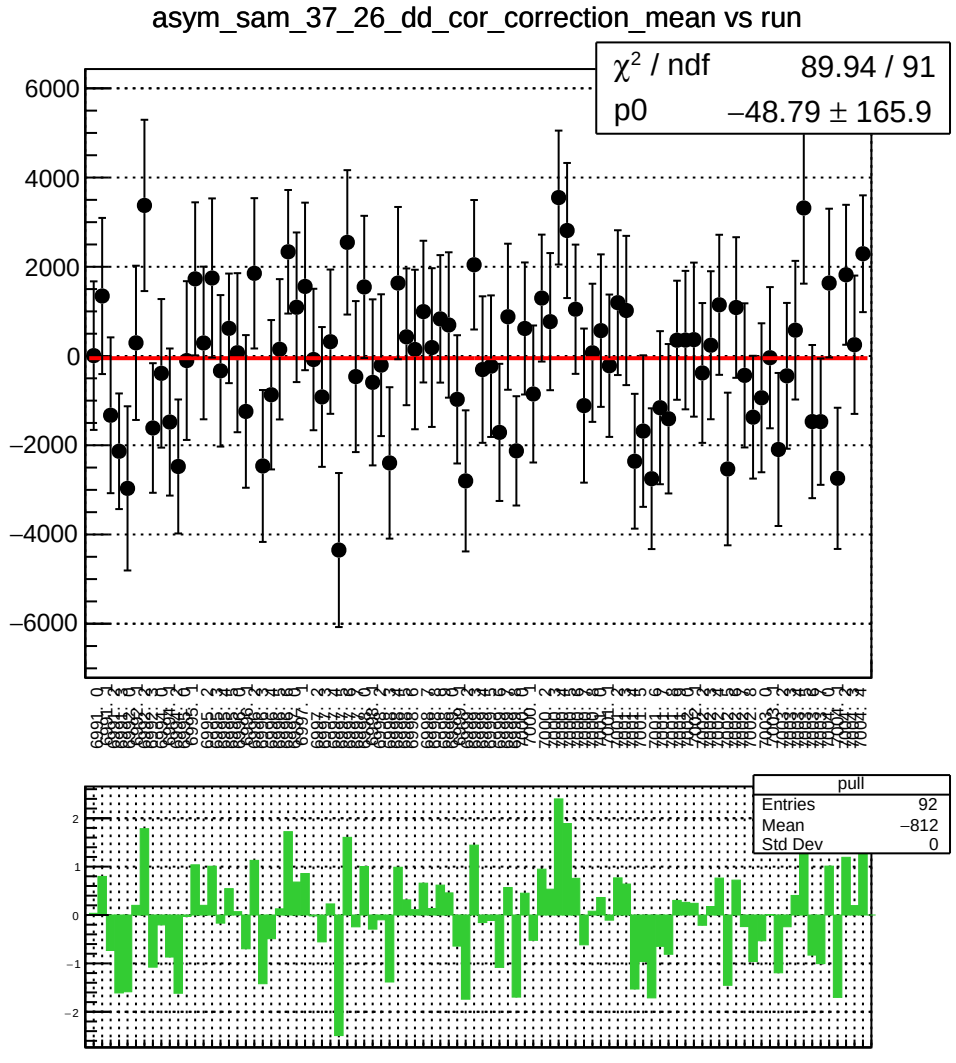

pull1D
Entries 92
Mean −0.001045
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

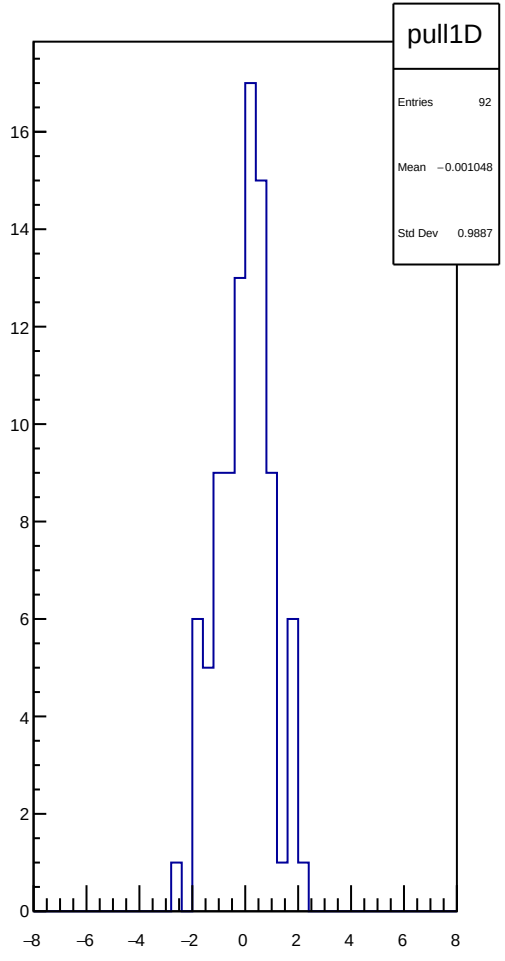

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 6548 / 91
p0 155.6 ± 0.1173
180
170
160
150
140
130

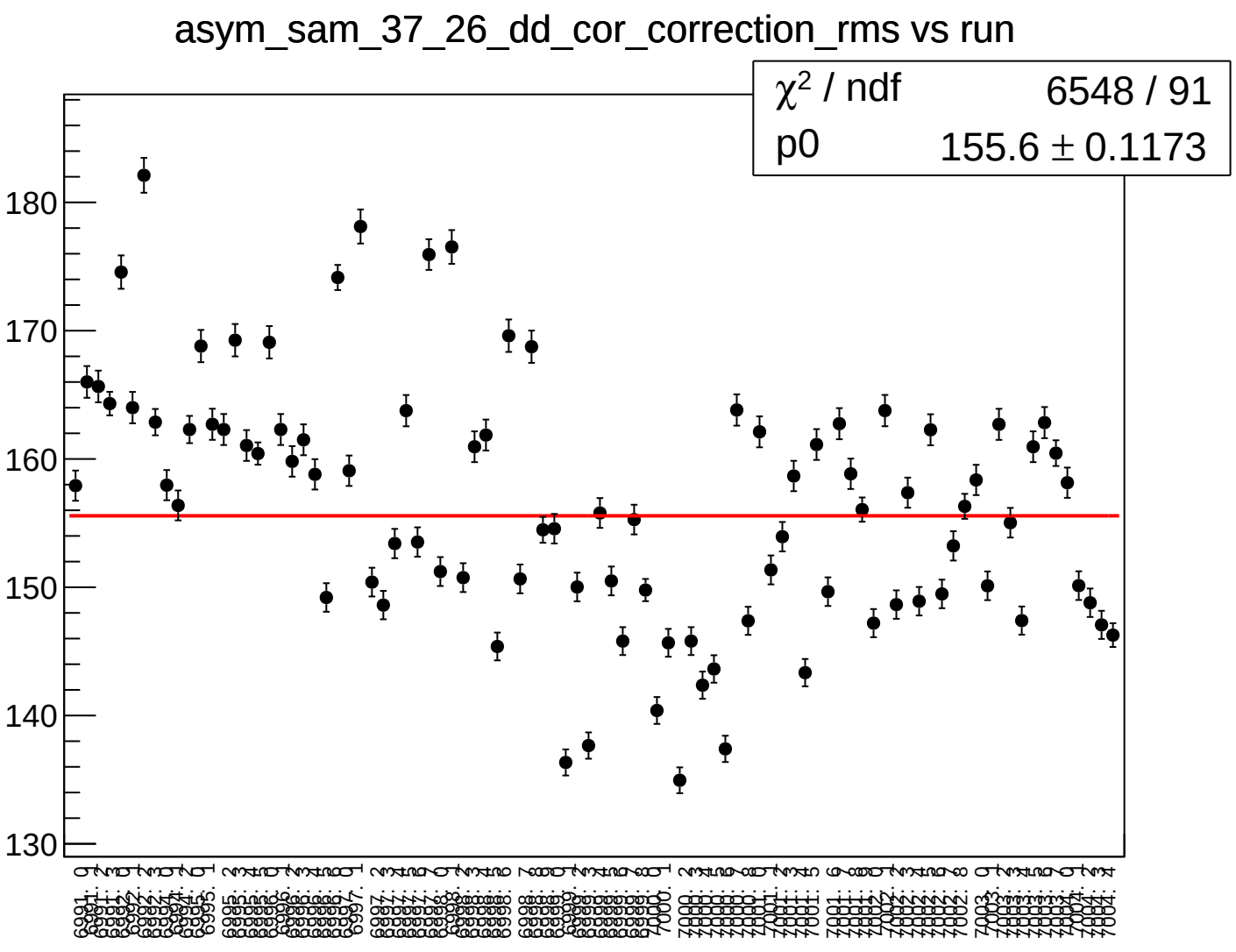

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 83.09 / 91
p0 30.01 ± 44.56
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean 140.9
Std Dev 0
2
1
0
−1
−2

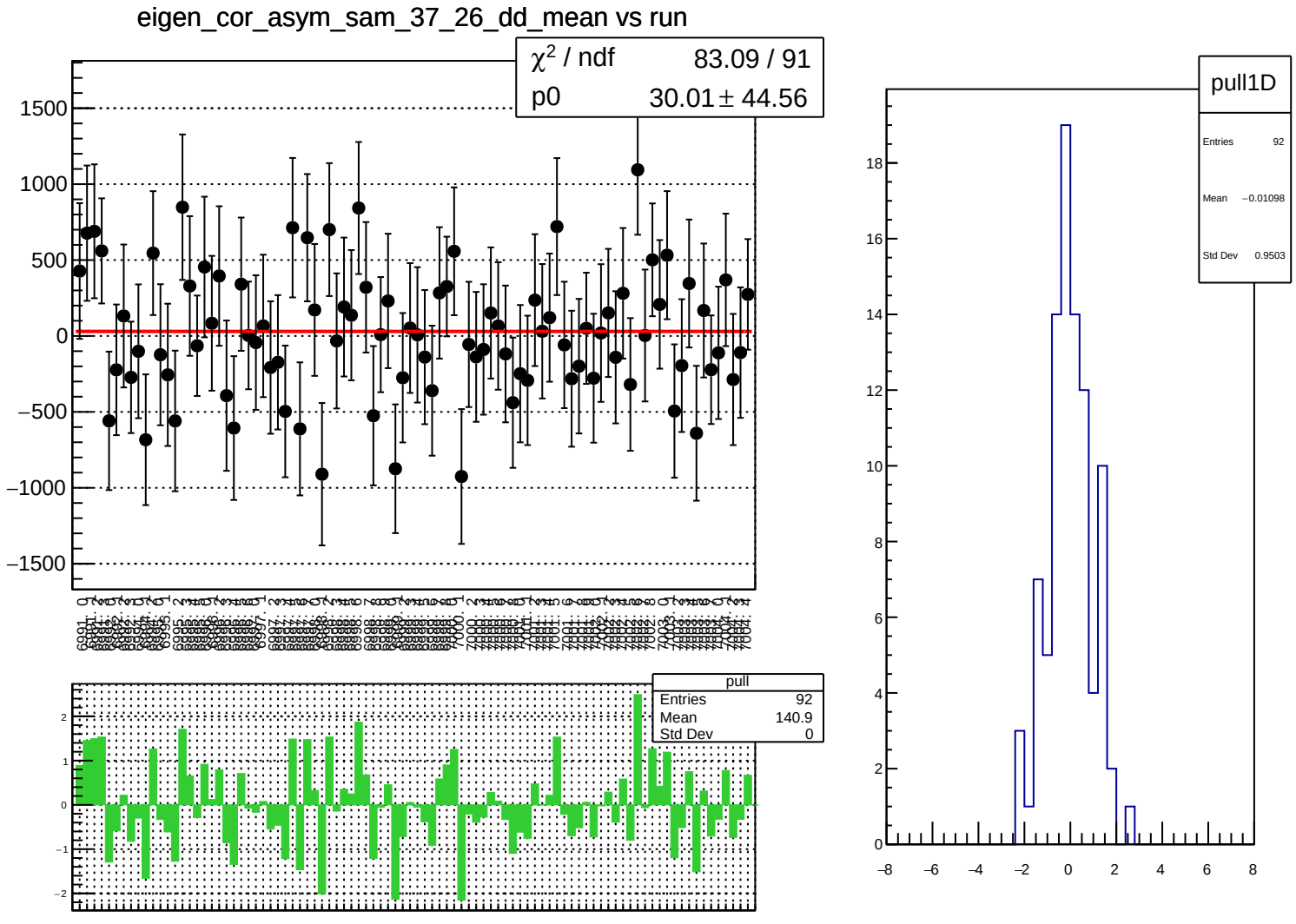

pull1D
Entries 92
Mean −0.01098
Std Dev 0.9503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

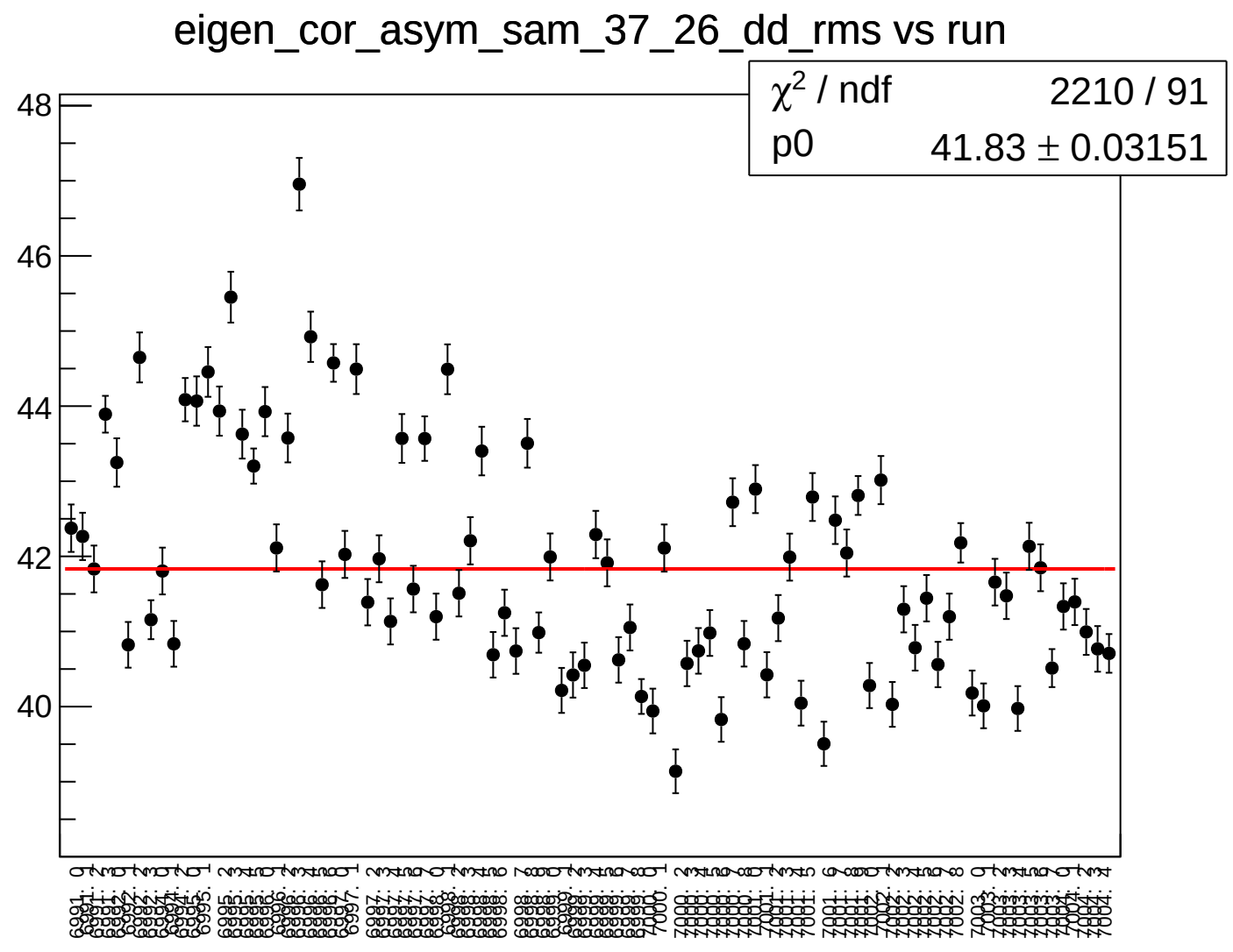

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2210 / 91
p0 41.83 ± 0.03151
48
46
44
42
40

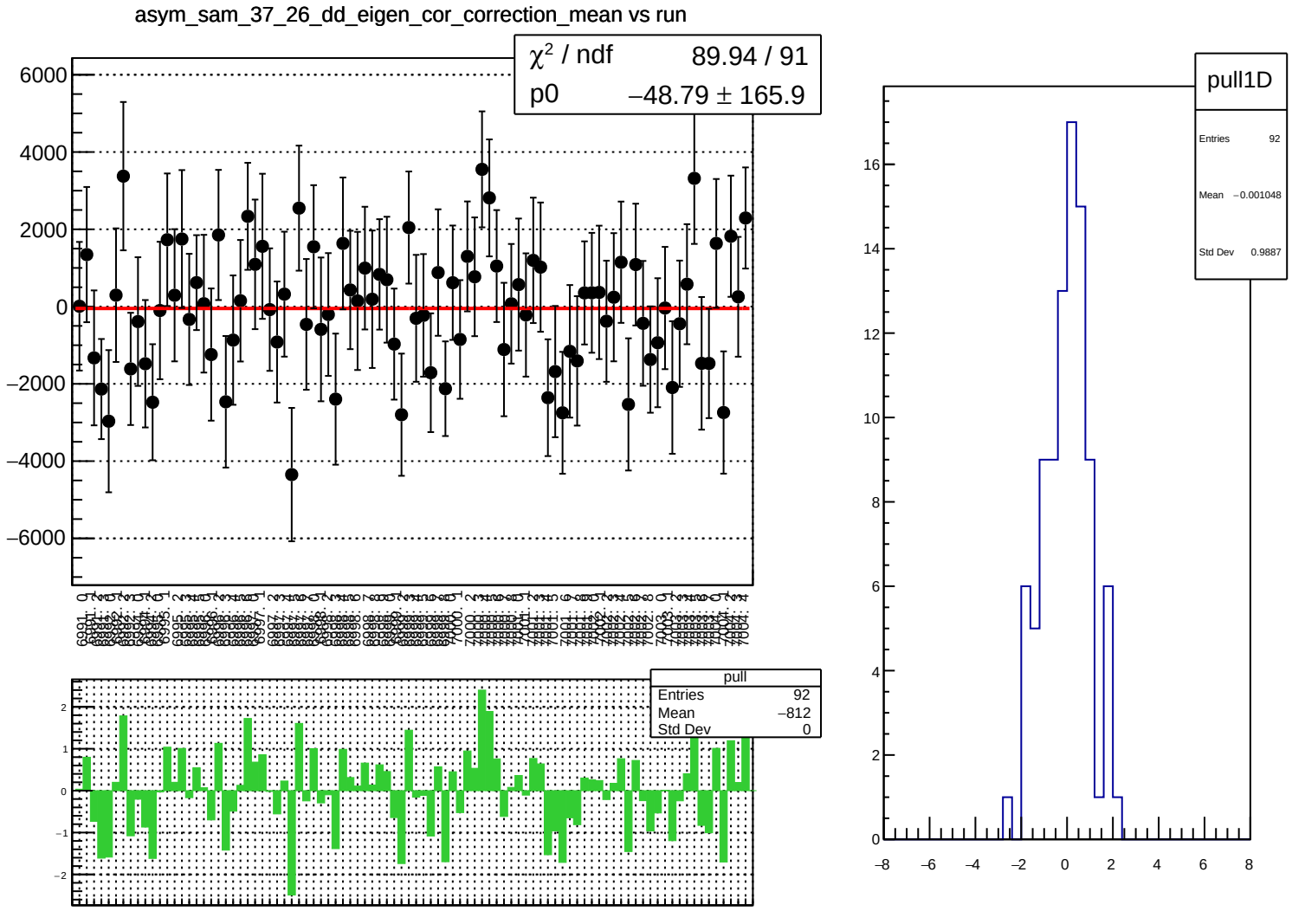

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 89.94 / 91
p0 −48.79 ± 165.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −812
Std Dev 0
2
1
0
−1
−2

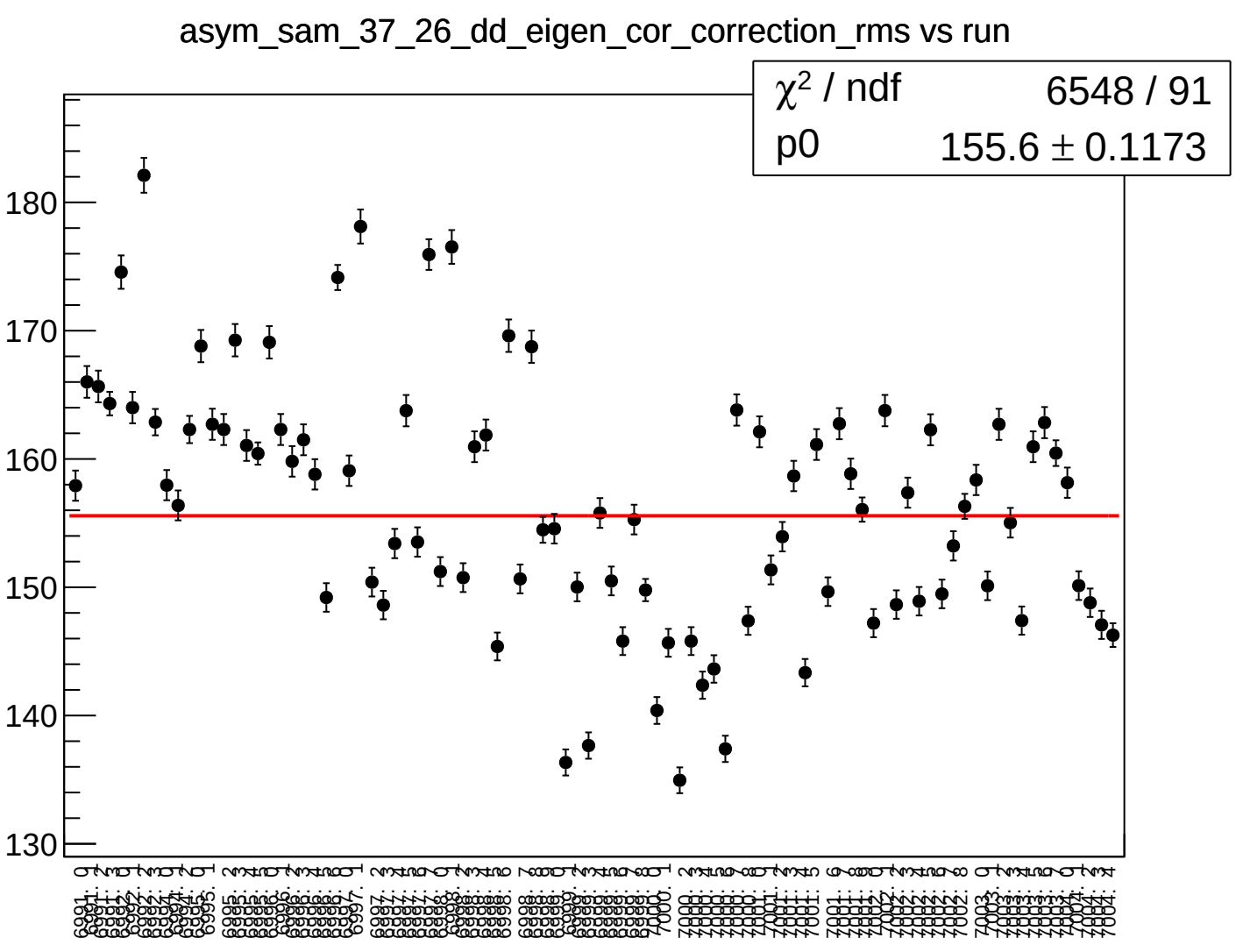

pull1D
Entries 92
Mean −0.001048
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

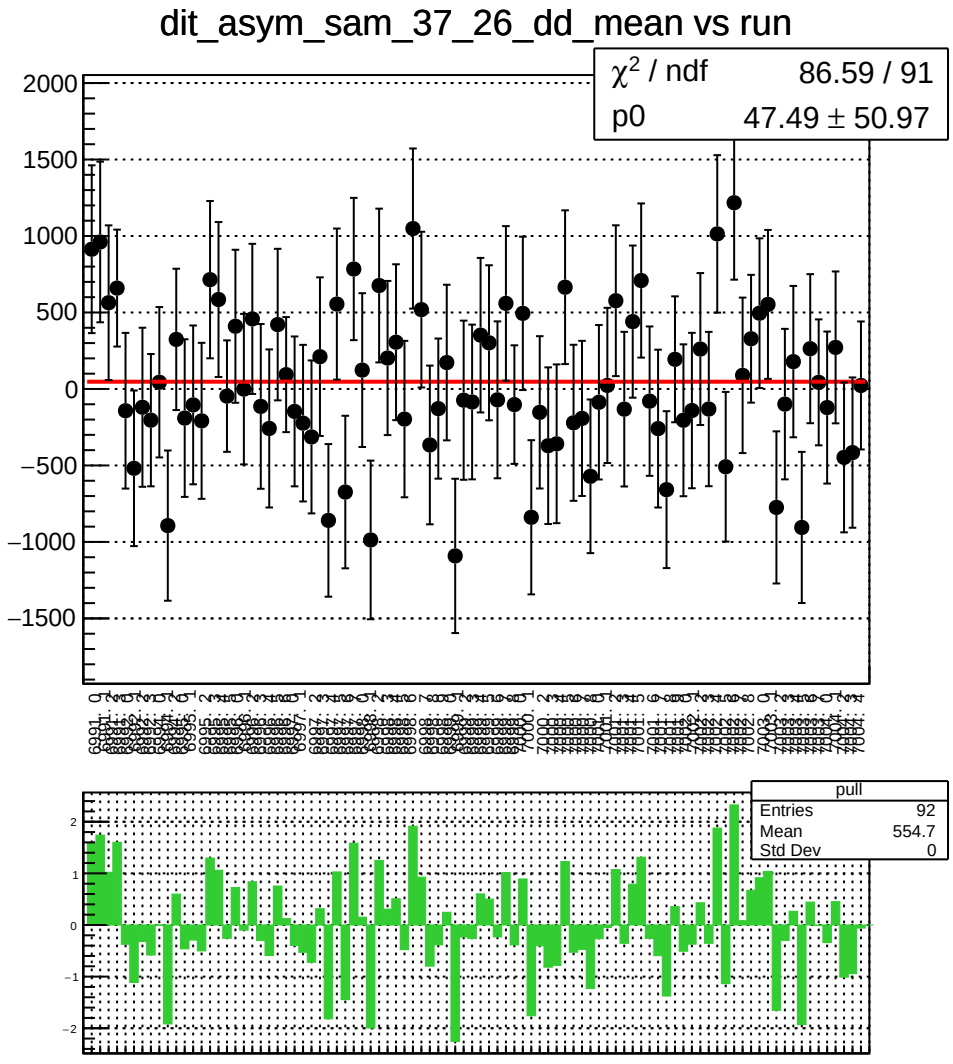

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 6548 / 91
p0 155.6 ± 0.1173
180
170
160
150
140
130

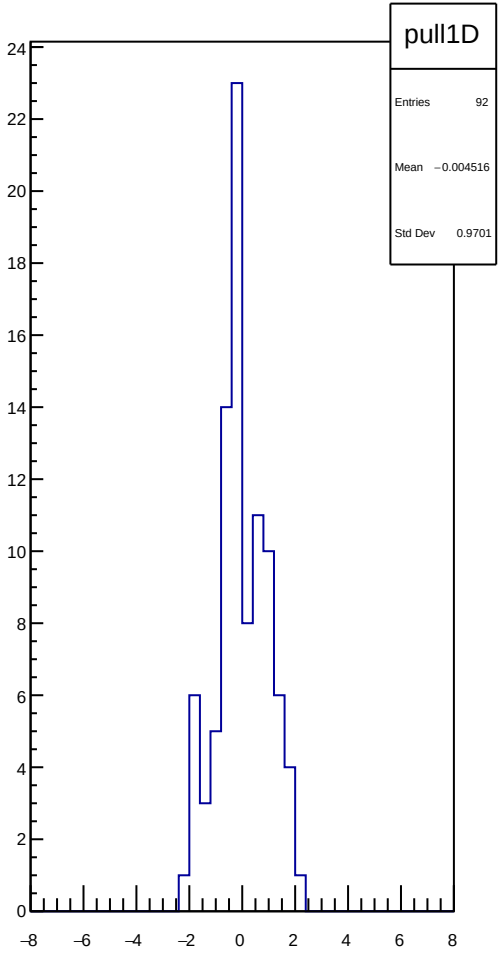

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 83.09 / 91
p0 30.01 ± 44.56
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean 140.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01098
Std Dev 0.9503
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2210 / 91
p0 41.83 ± 0.03151
48
46
44
42
40

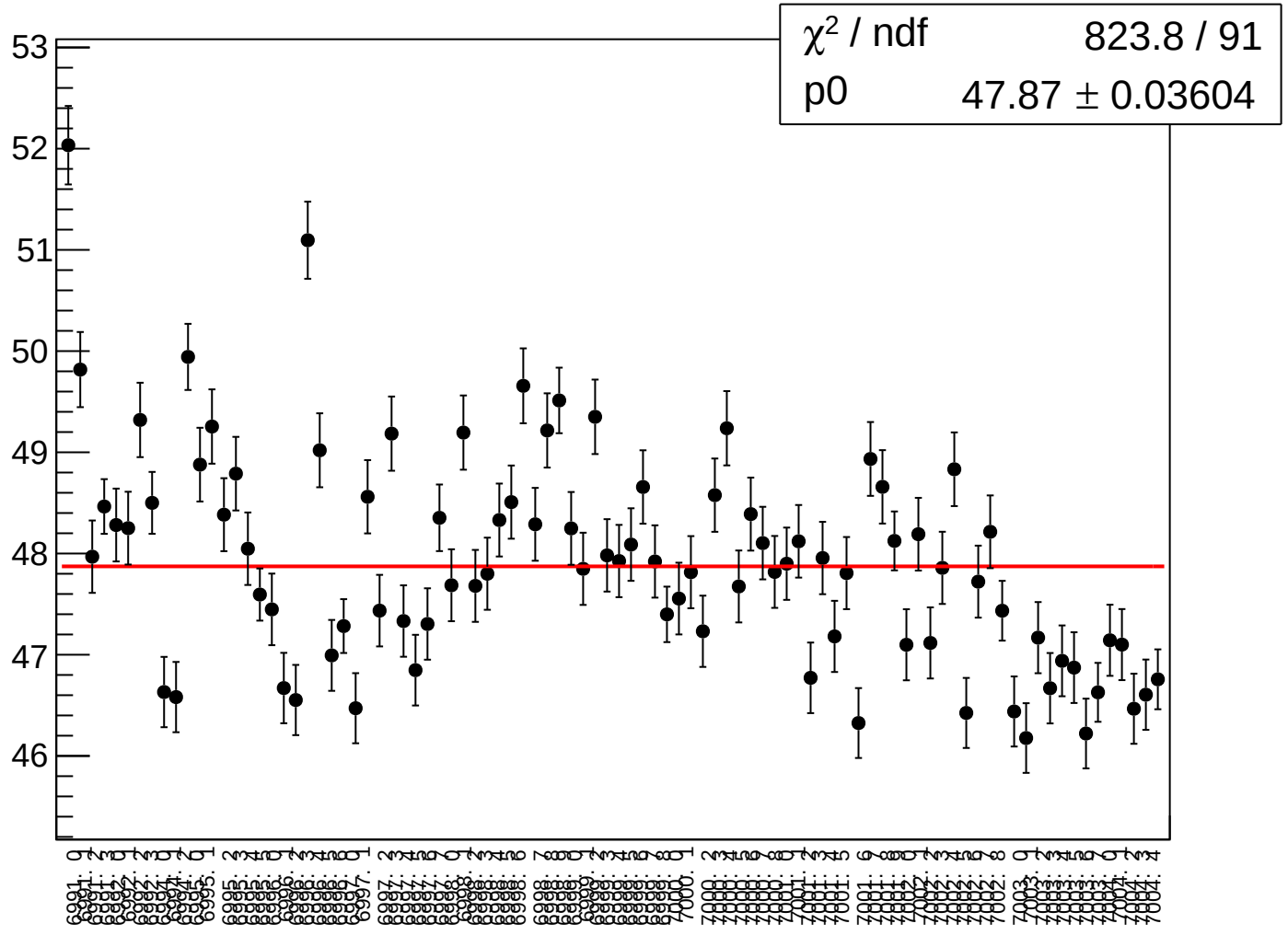

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.94 / 91
p0 −48.79 ± 165.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −812
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001048
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

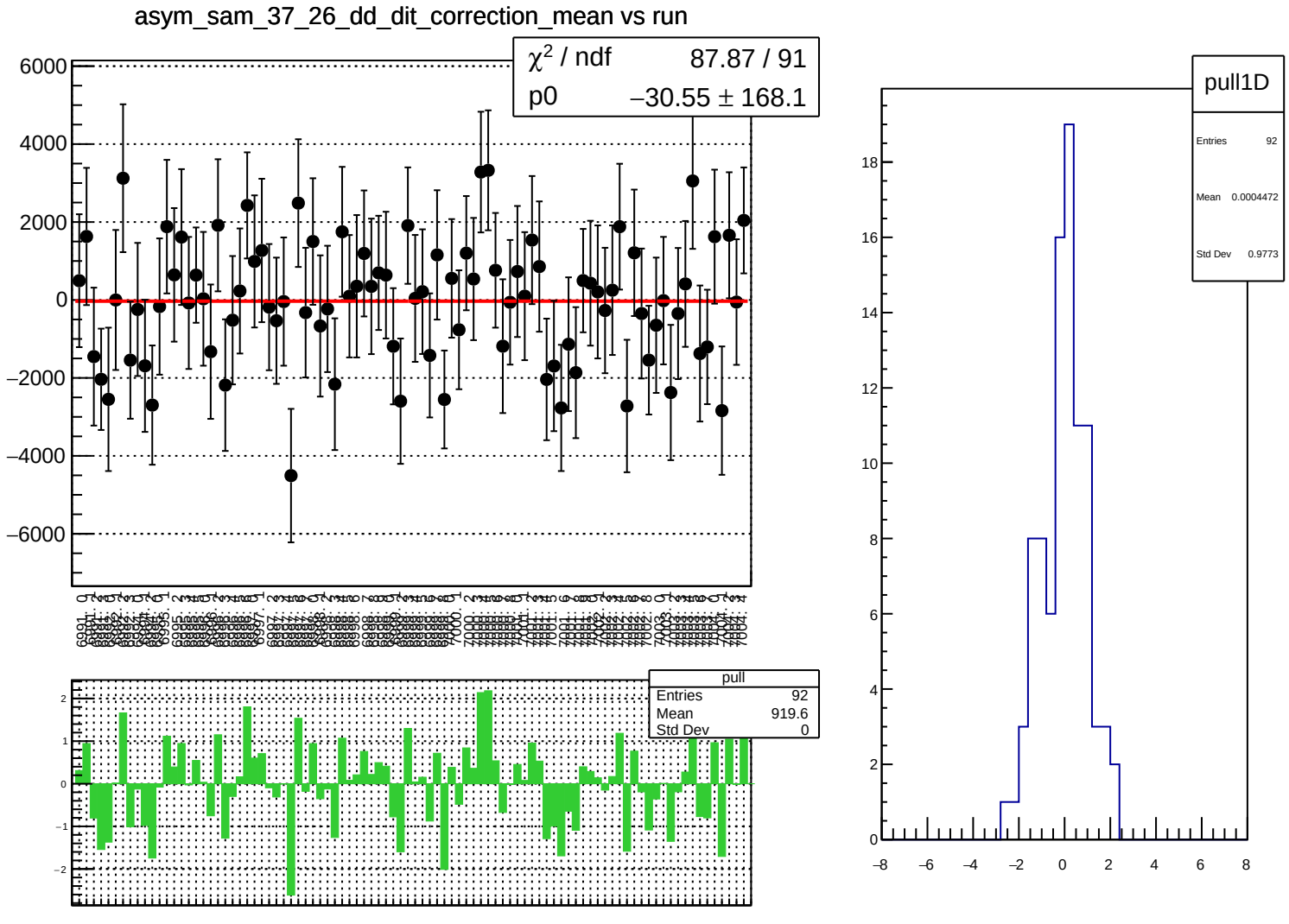

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6548 / 91
p0 155.6 ± 0.1173
180
170
160
150
140
130

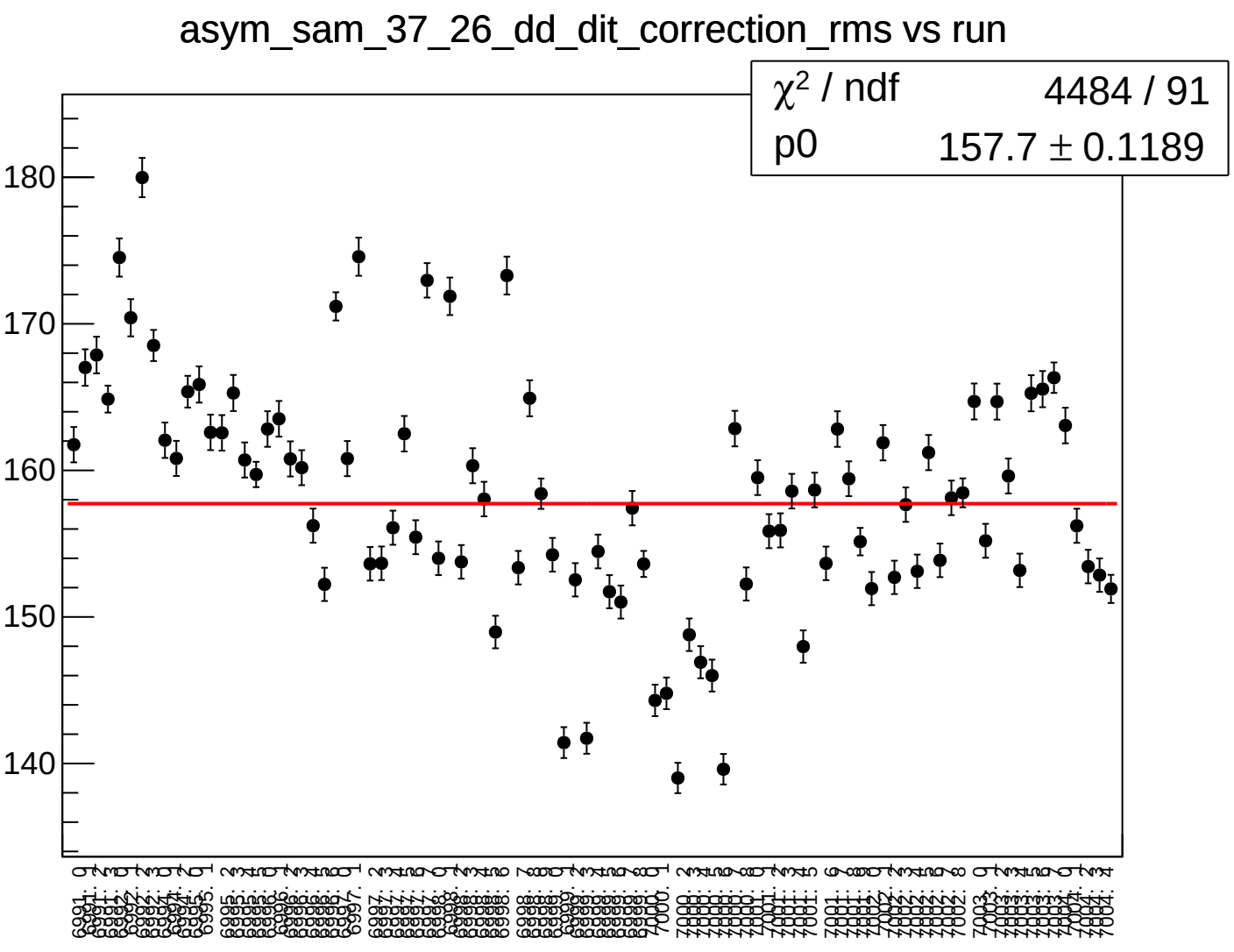

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 86.59 / 91
p0 47.49 ± 50.97
pull
Entries 92
Mean 554.7
Std Dev 0

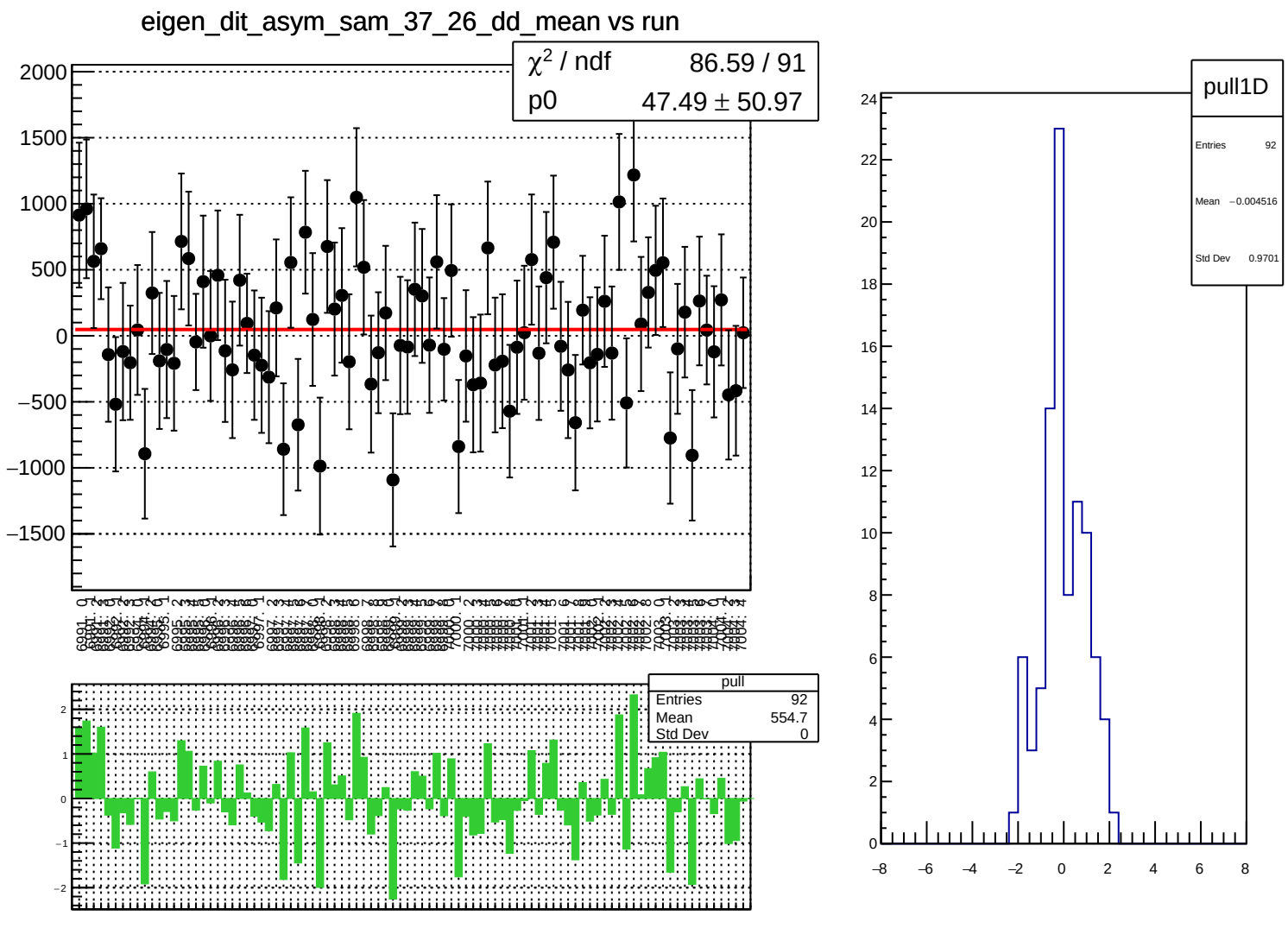

pull1D
Entries 92
Mean −0.004516
Std Dev 0.9701

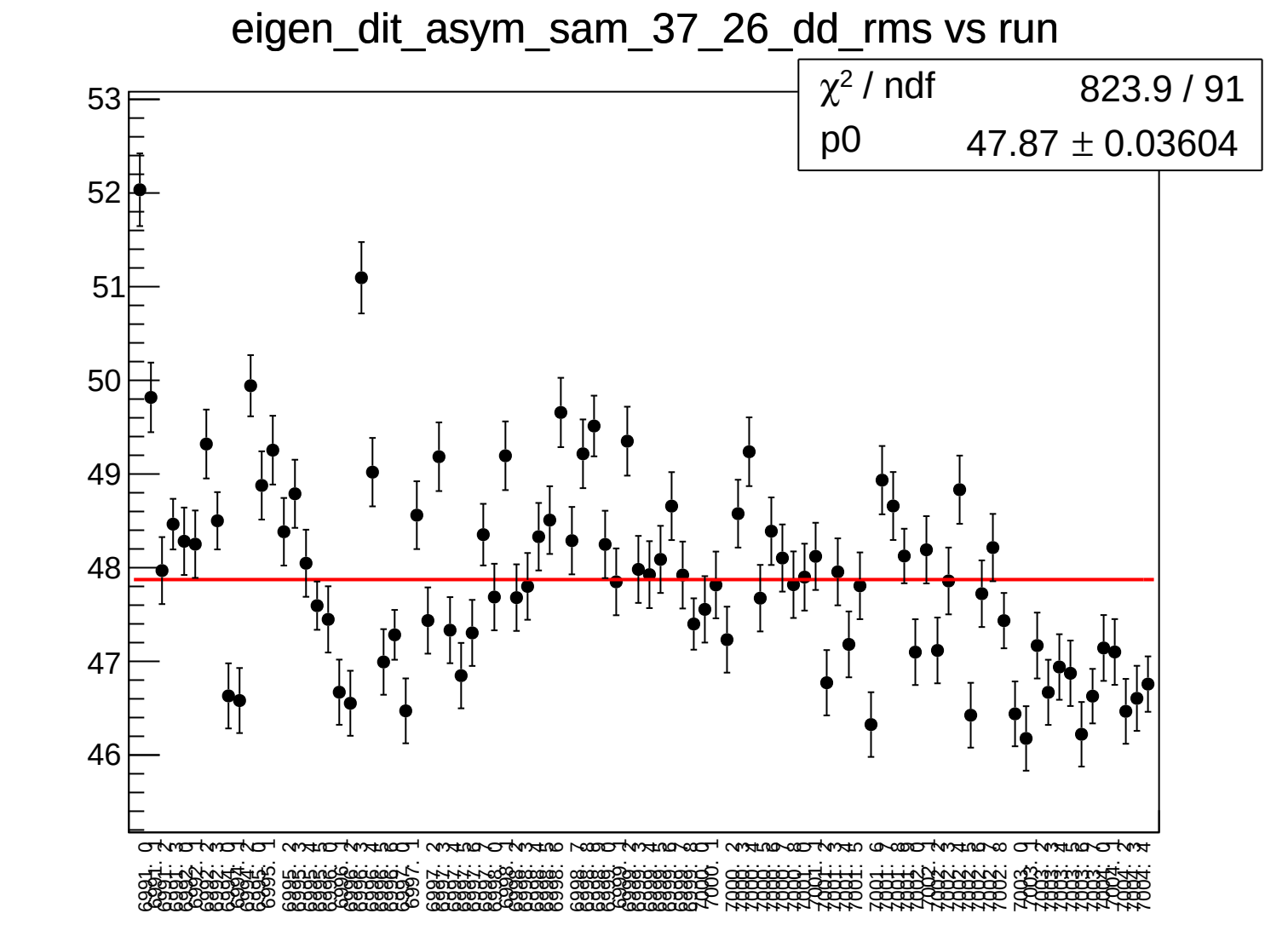
dit_asym_sam_37_26_dd_rms vs run

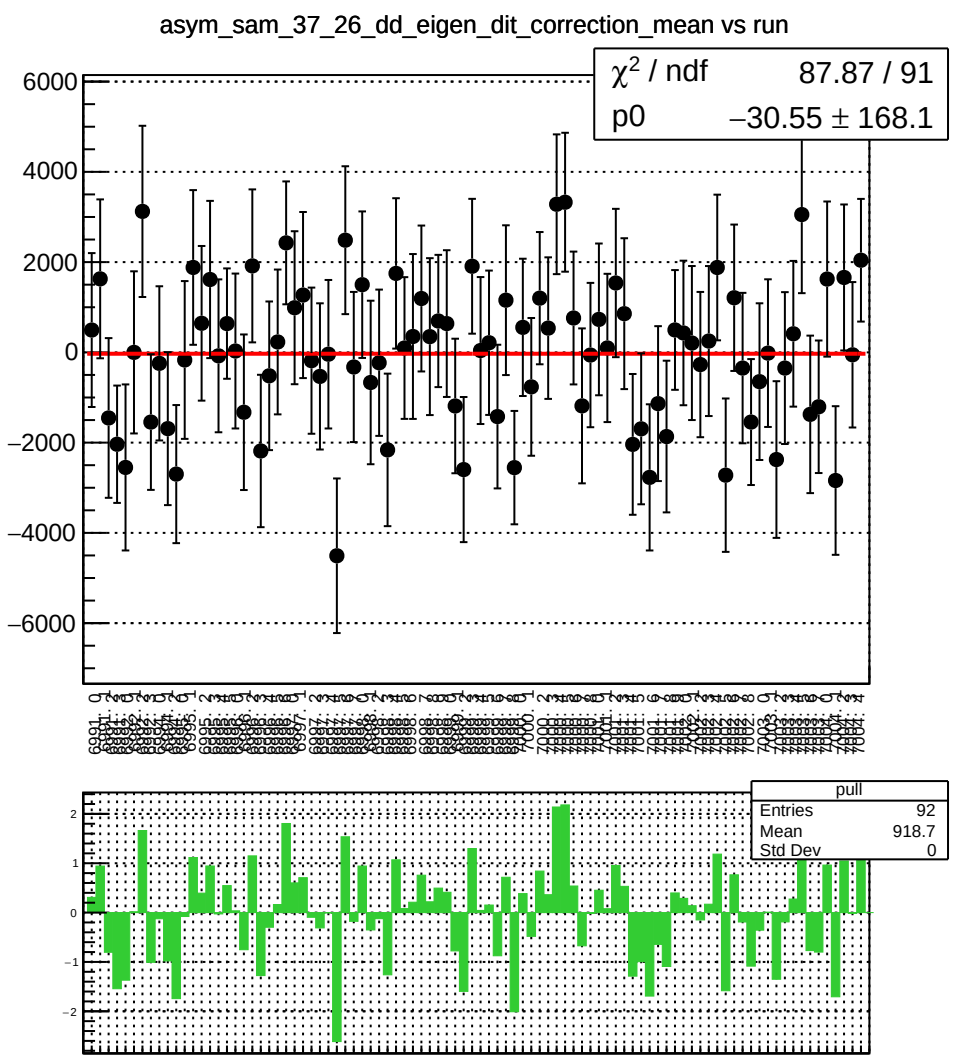


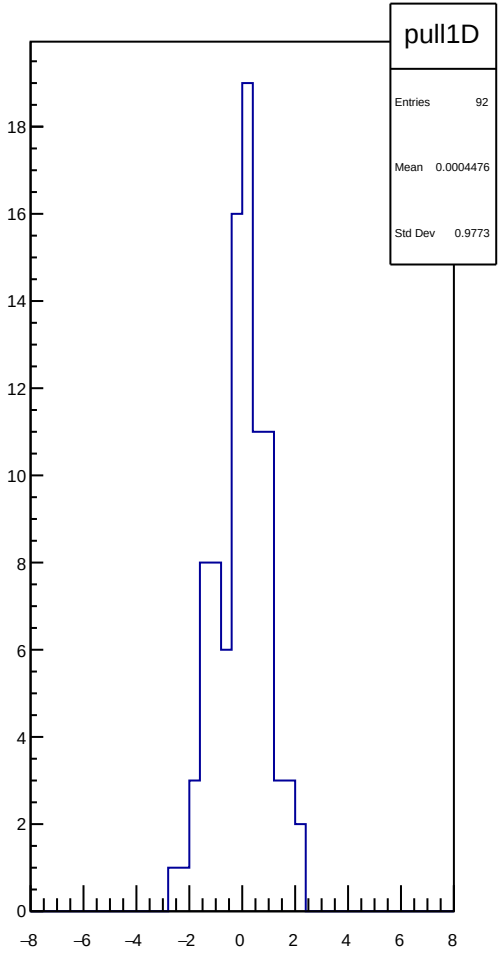

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 87.87 / 91
p0 −30.55 ± 168.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 919.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0004472
Std Dev 0.9773
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

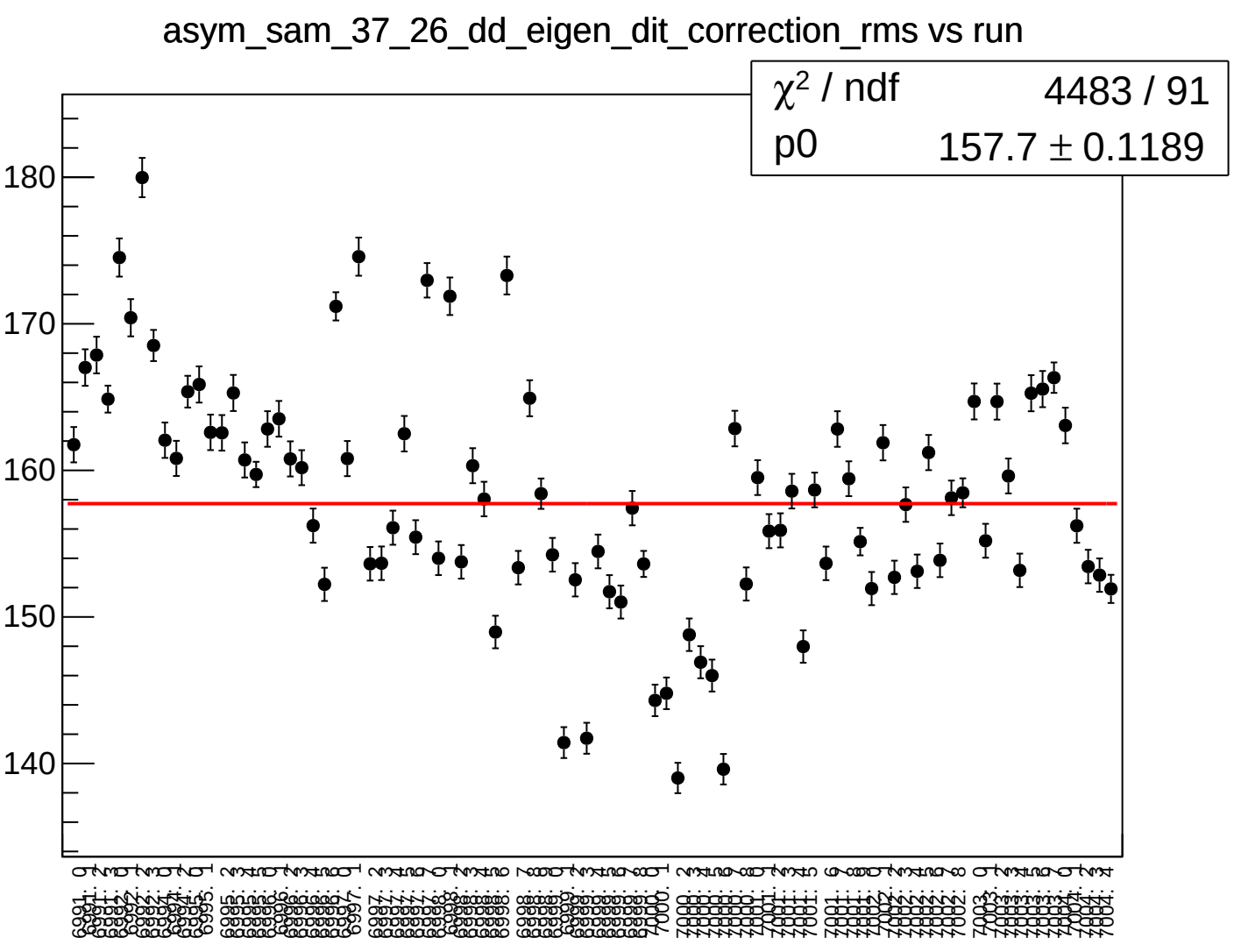

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 4484 / 91
p0 157.7 ± 0.1189
180
170
160
150
140

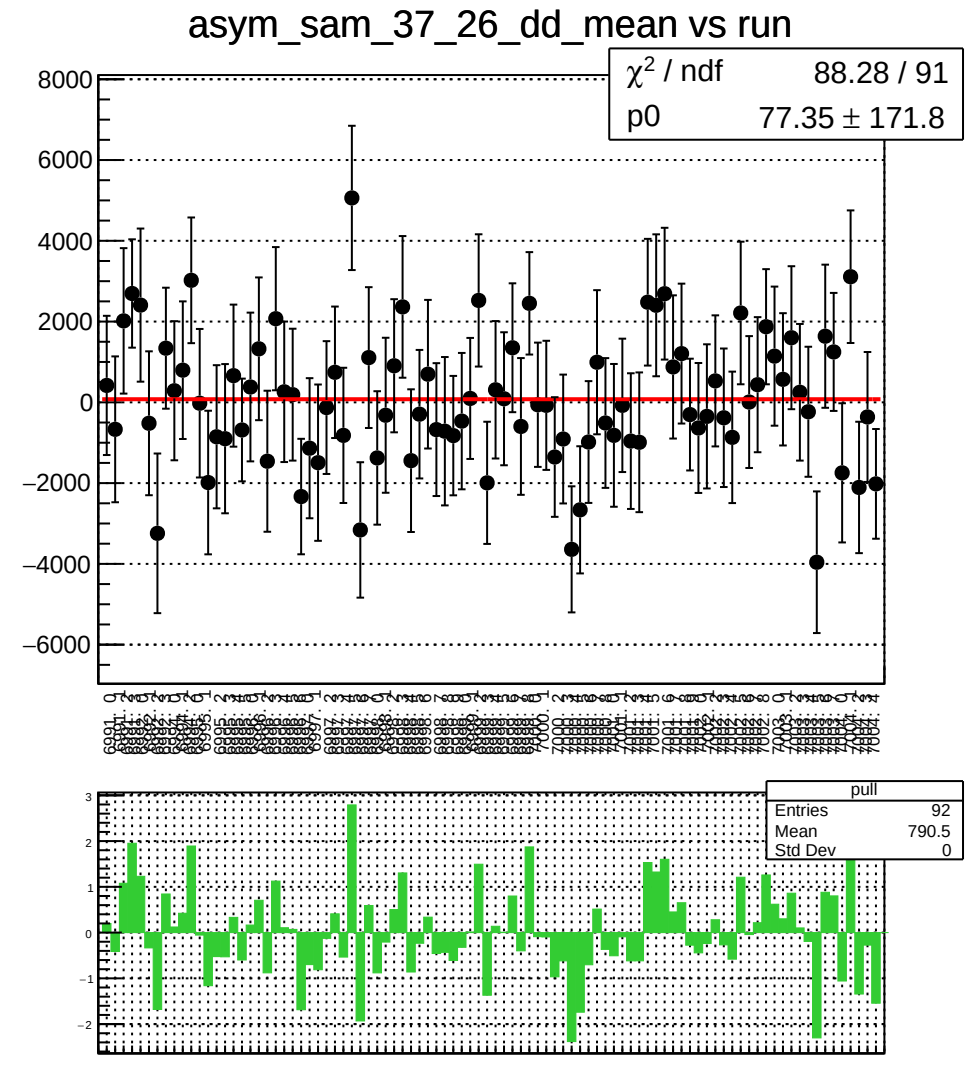

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 86.59 / 91
p0 47.49 ± 50.97
pull
Entries 92
Mean 554.7
Std Dev 0
pull1D
Entries 92
Mean −0.004516
Std Dev 0.9701

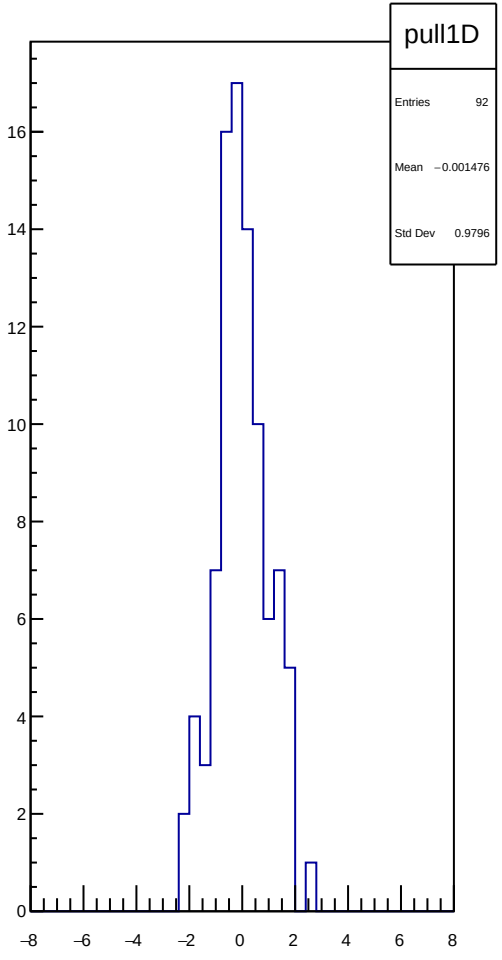

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 823.9 / 91
p0 47.87 ± 0.03604
53
52
51
50
49
48
47
46

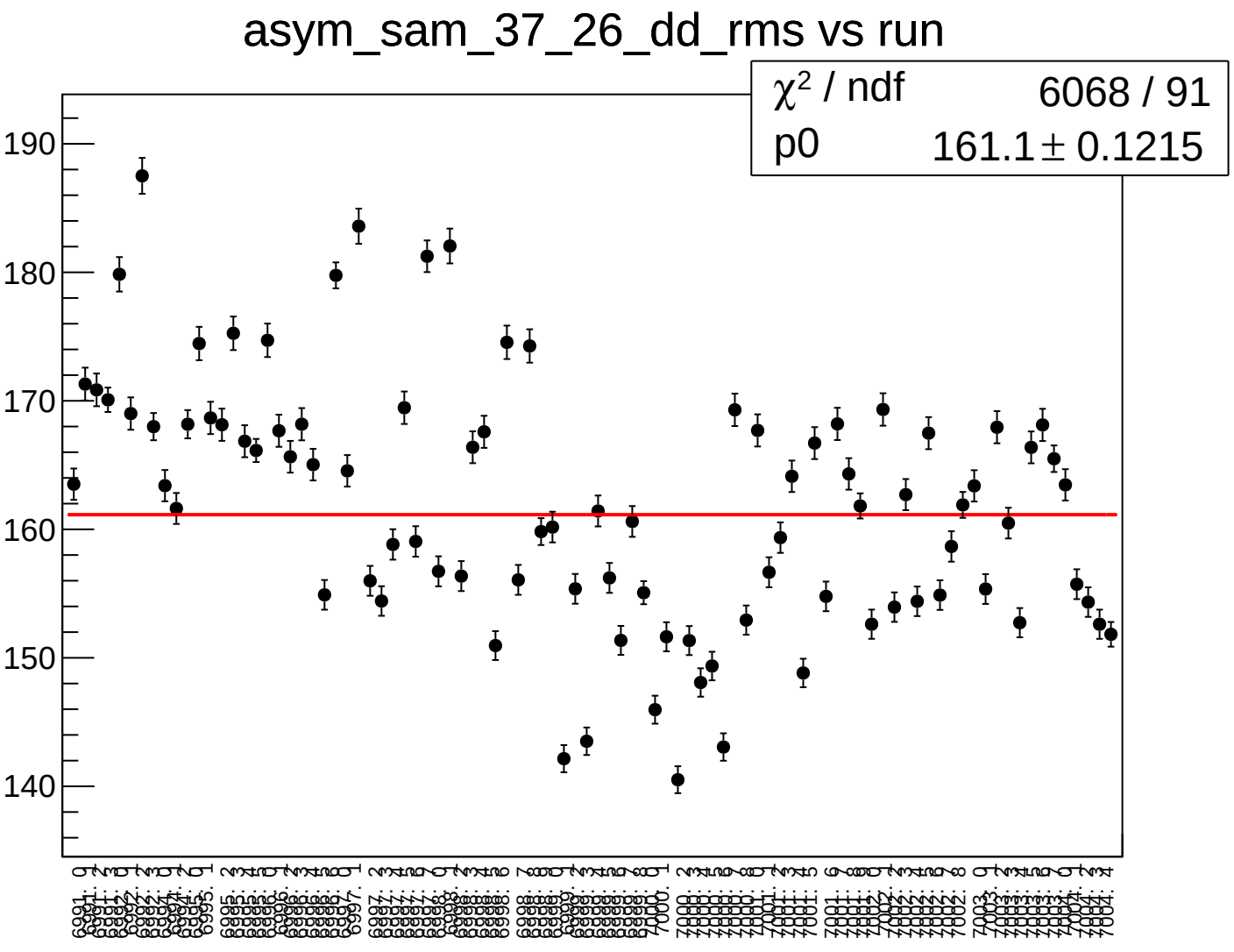

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.87 / 91
p0 −30.55 ± 168.1
pull
Entries 92
Mean 918.7
Std Dev 0

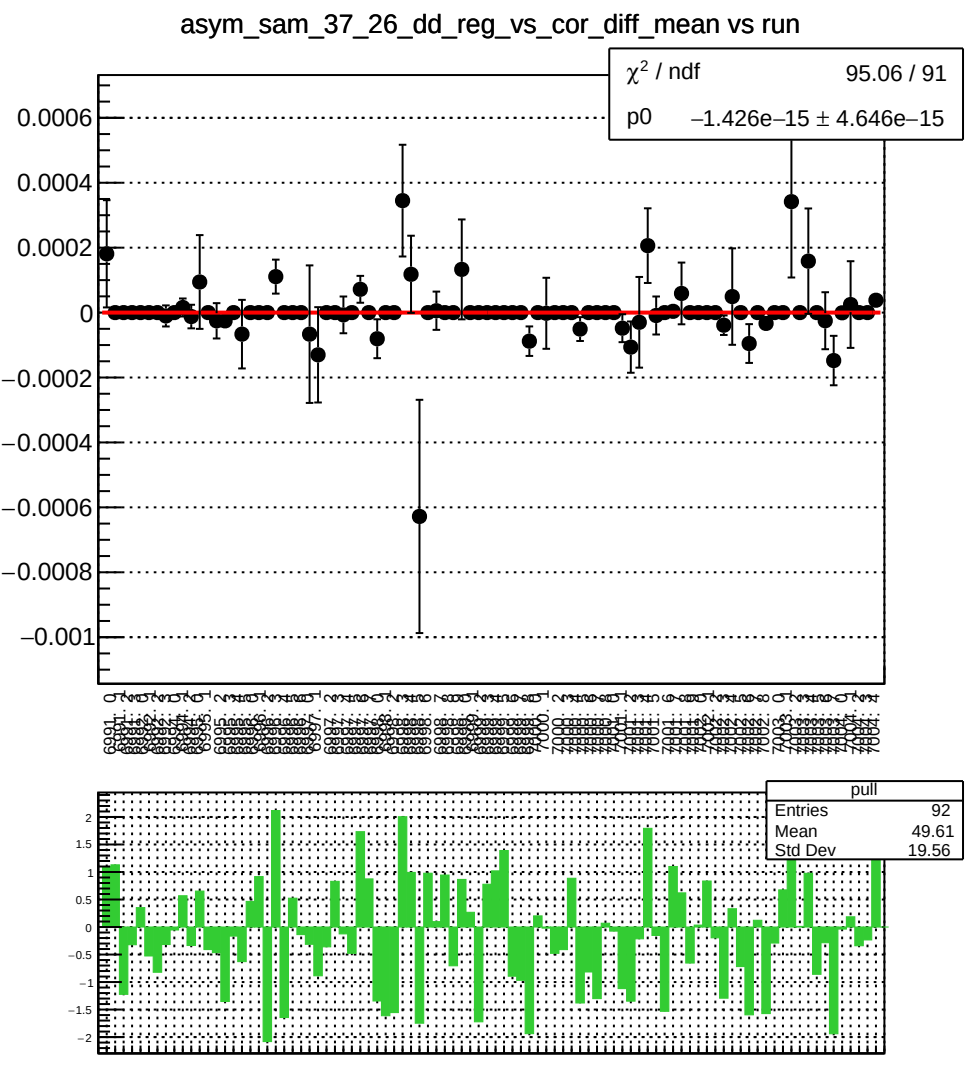

pull1D
Entries 92
Mean 0.0004476
Std Dev 0.9773

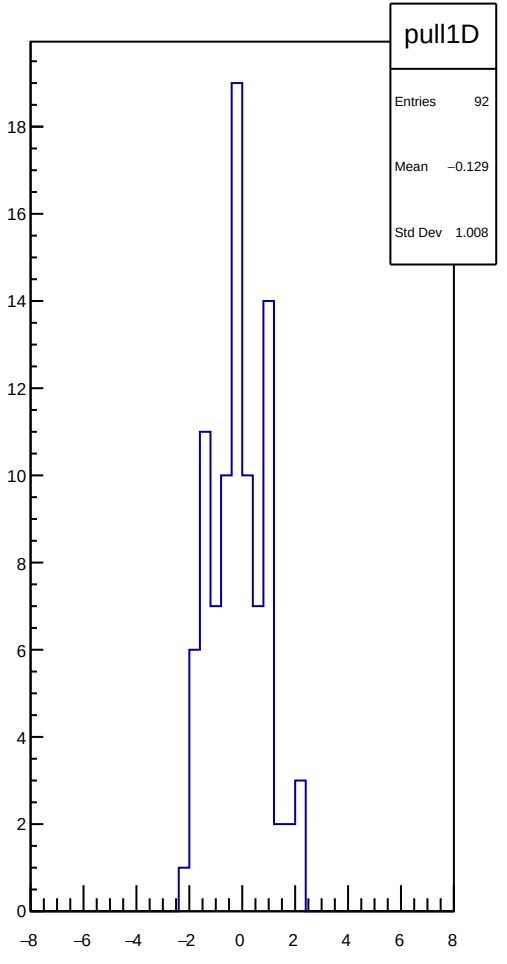

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4483 / 91
p0 157.7 ± 0.1189
180
170
160
150
140

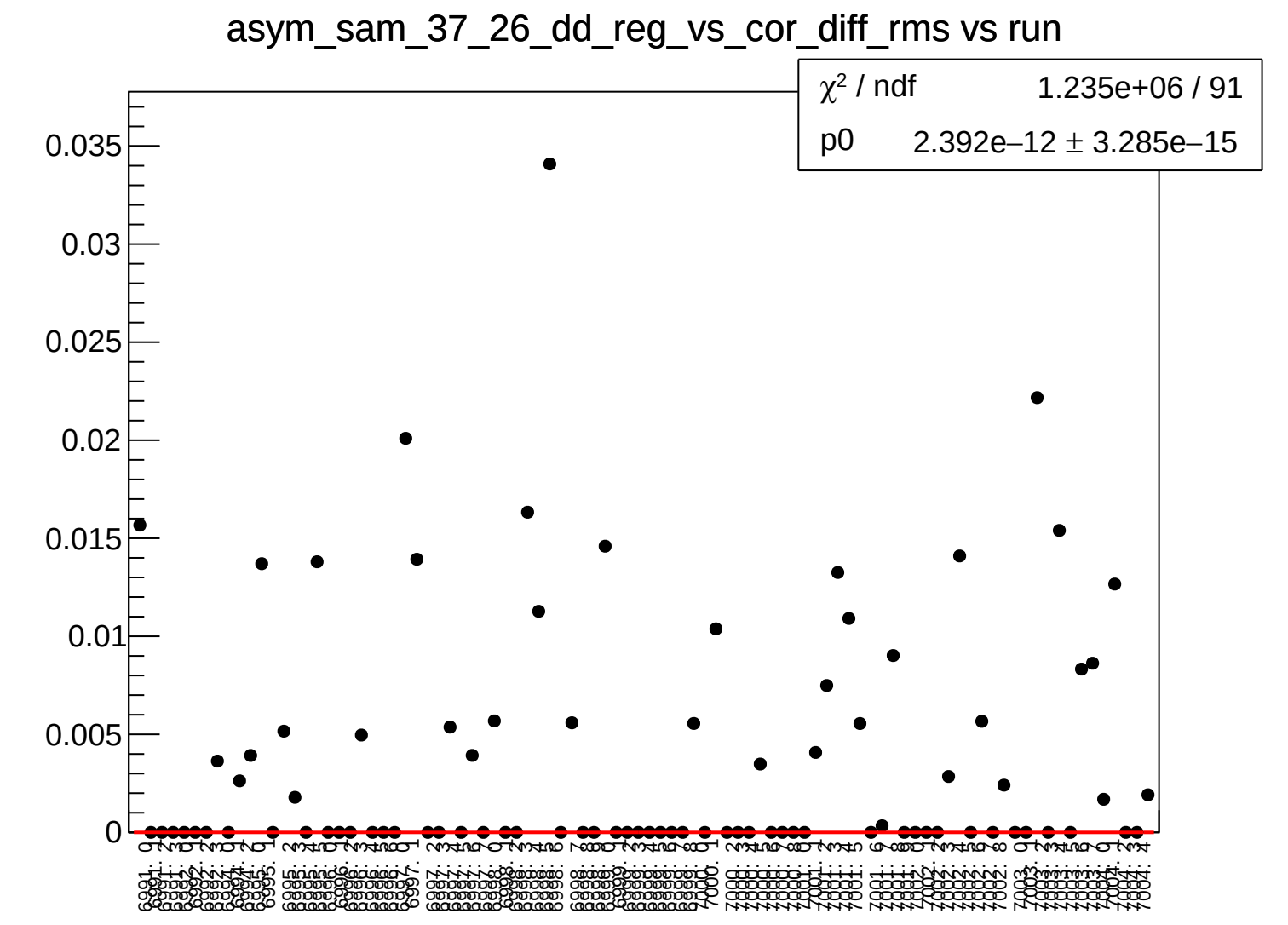

asym_sam_37_26_dd_mean vs run
χ² / ndf 88.28 / 91
p0 77.35 ± 171.8
pull
Entries 92
Mean 790.5
Std Dev 0

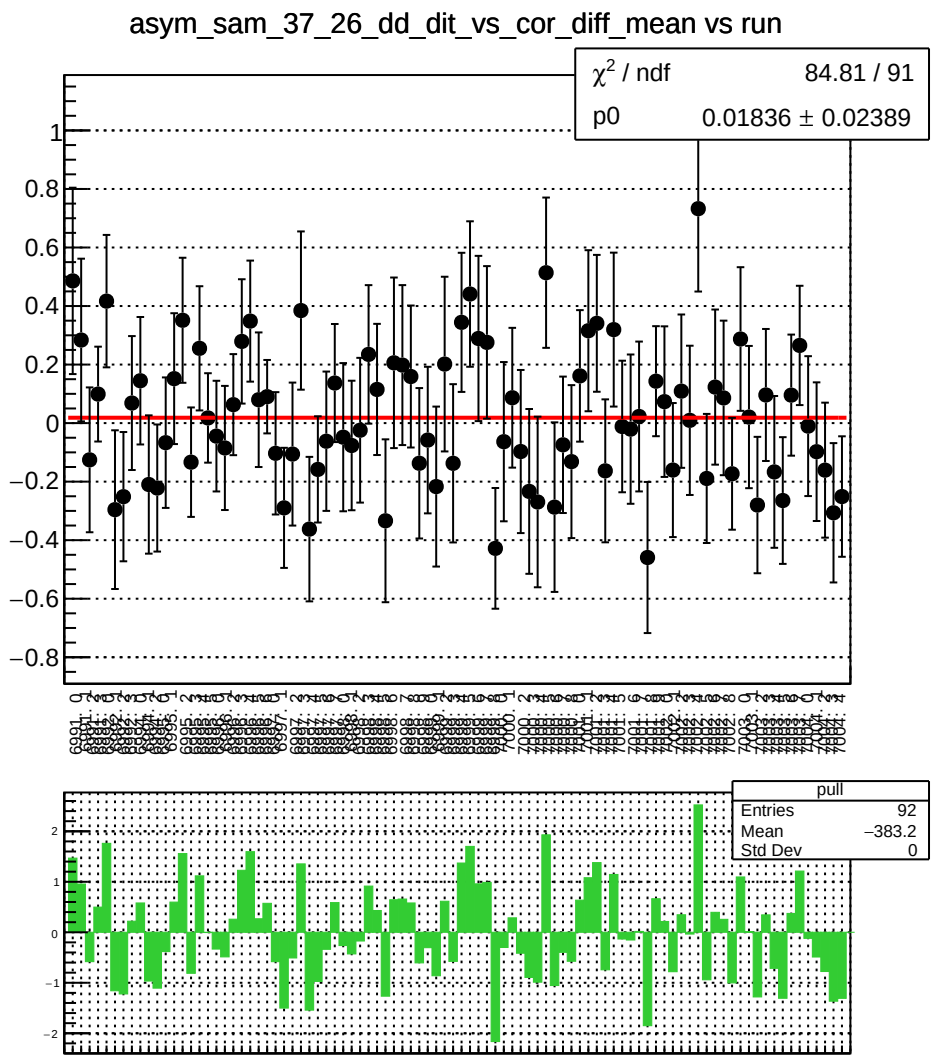

pull1D
Entries 92
Mean −0.001476
Std Dev 0.9796

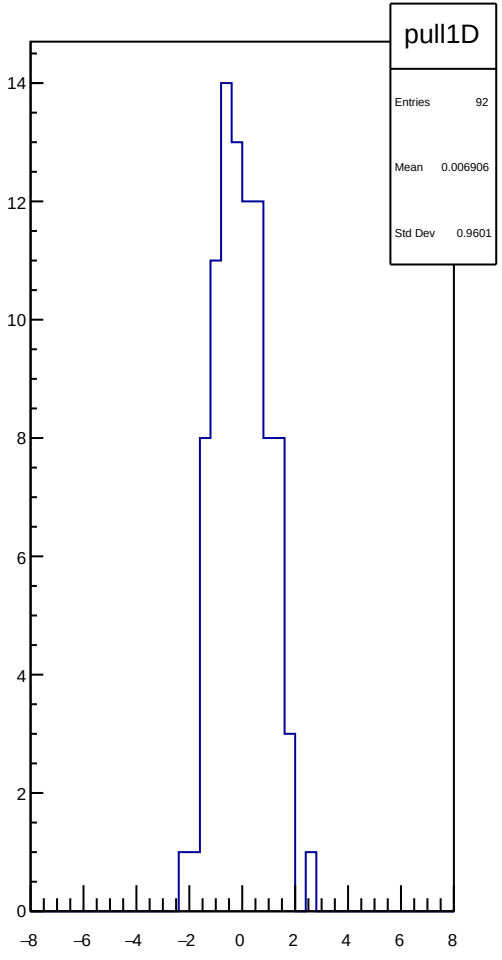

asym_sam_37_26_dd_rms vs run
χ² / ndf 6068 / 91
p0 161.1 ± 0.1215
190
180
170
160
150
140

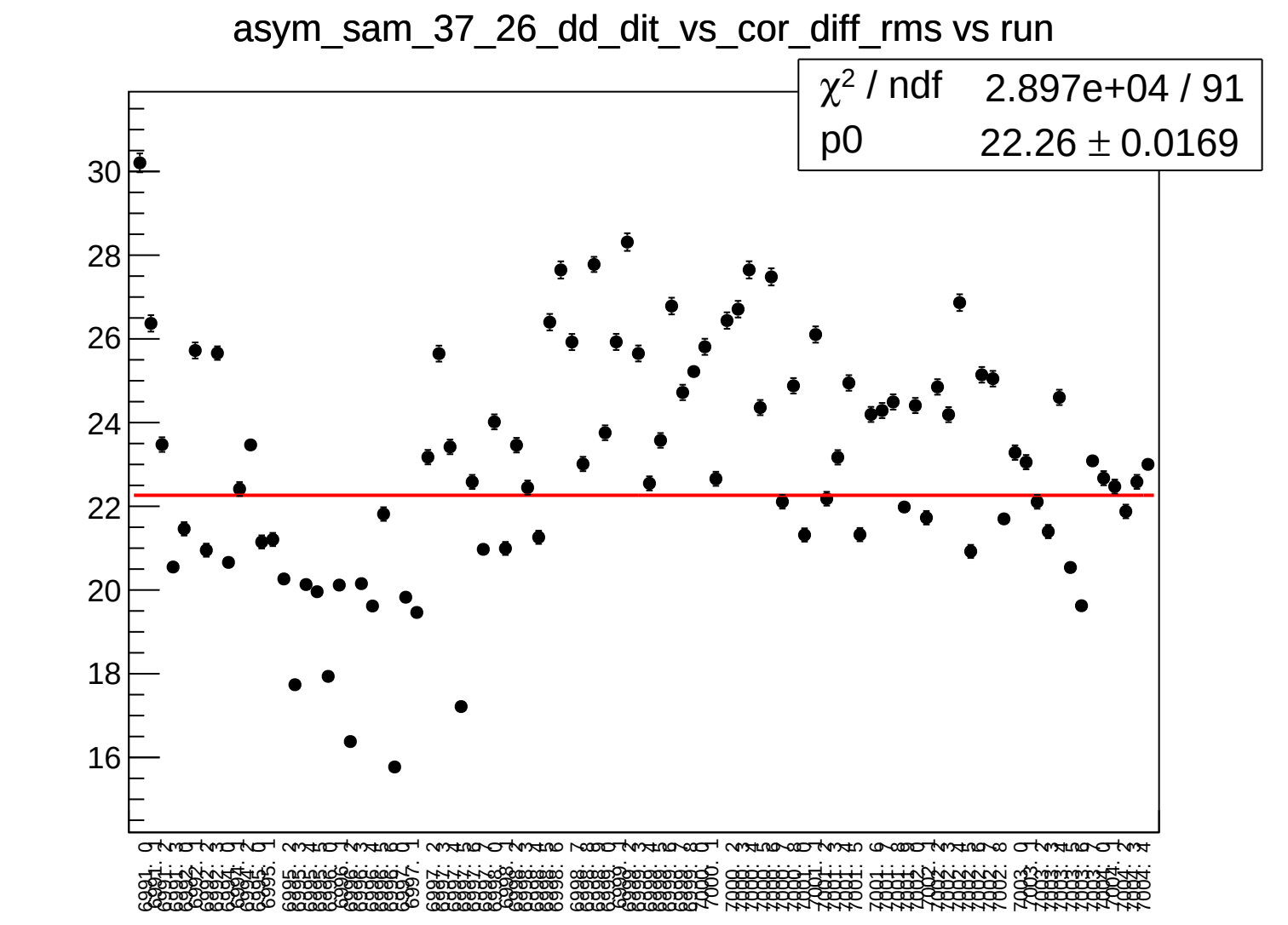

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.06 / 91
p0 −1.426e−15 ± 4.646e−15
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 92
Mean 49.61
Std Dev 19.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

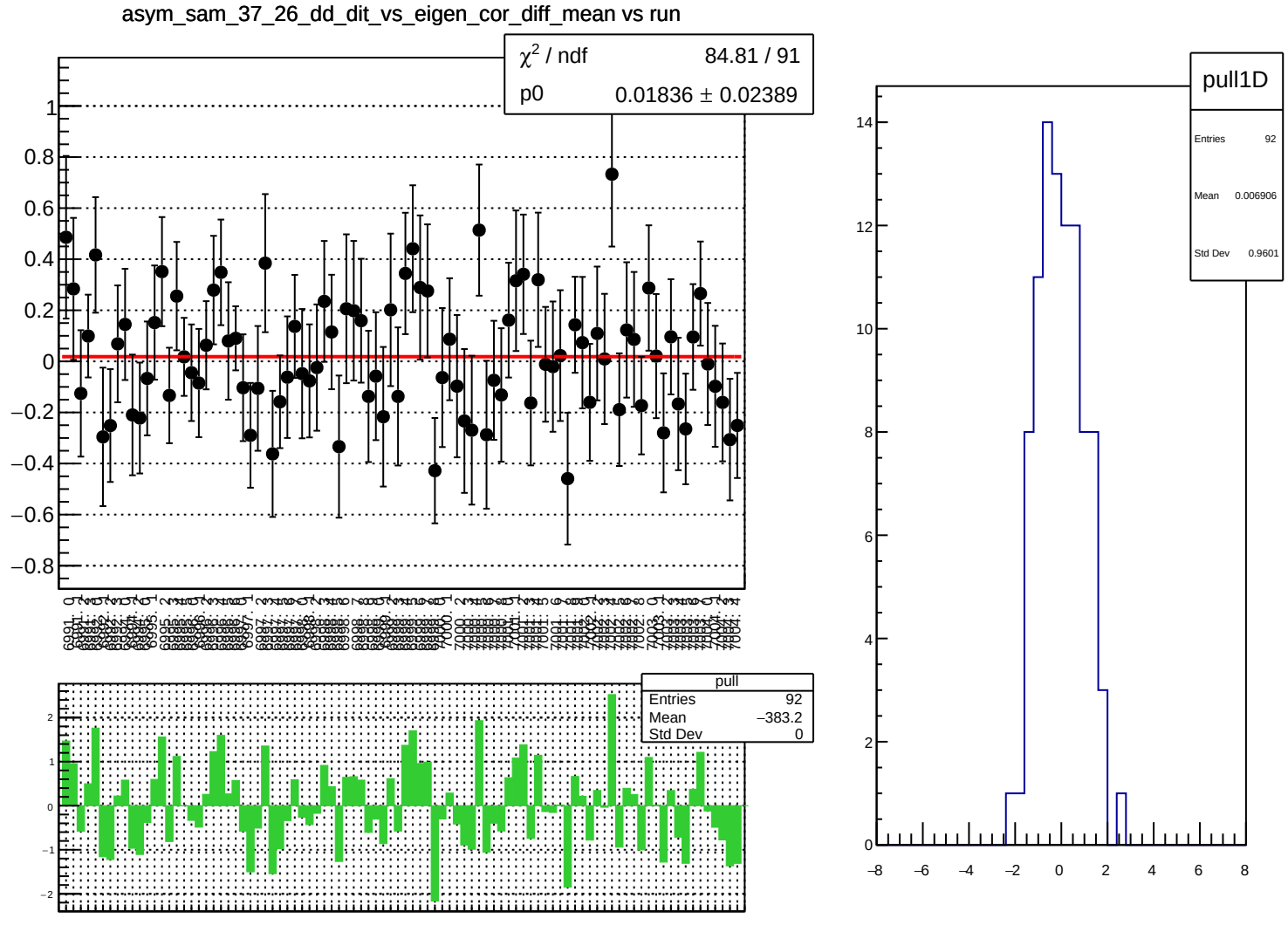

pull1D
Entries 92
Mean −0.129
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

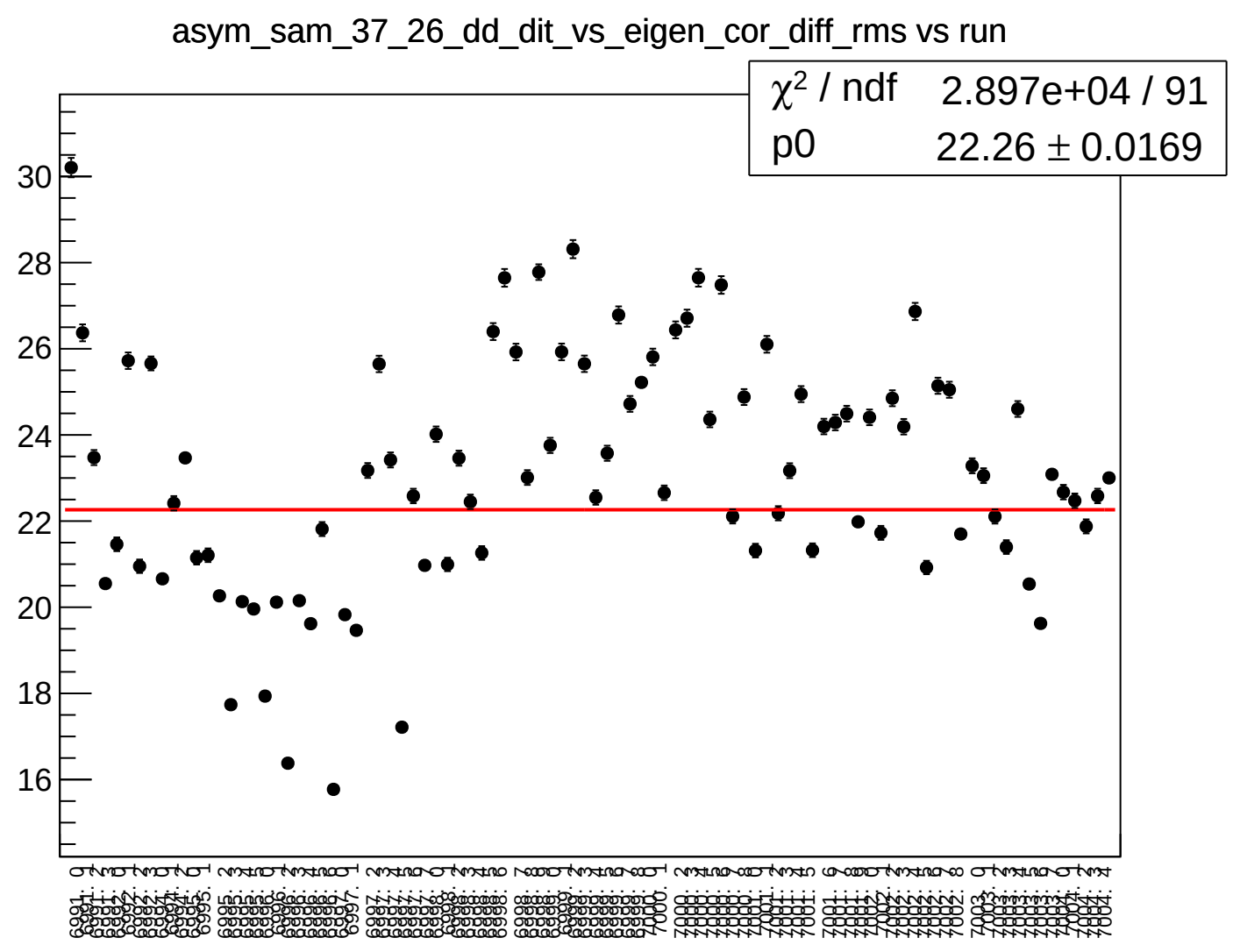

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.235e+06 / 91
p0 2.392e−12 ± 3.285e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

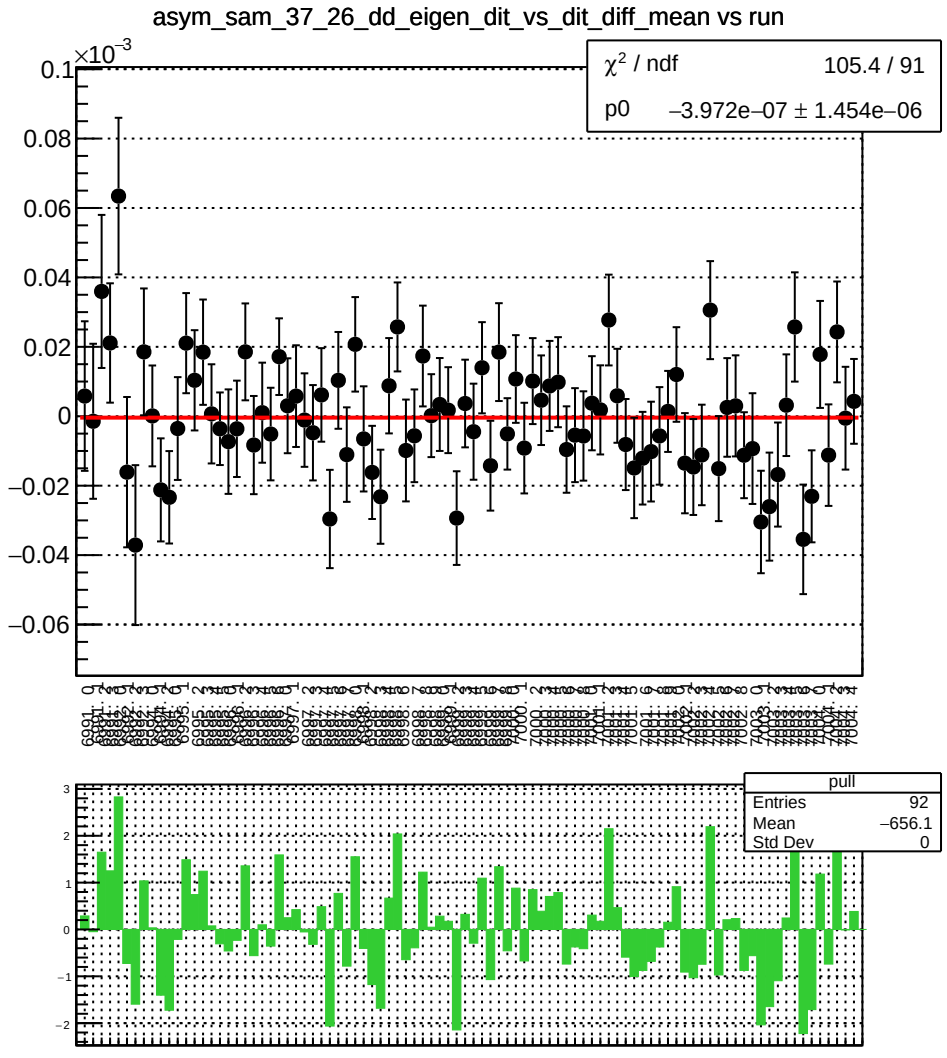

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.81 / 91
p0 0.01836 ± 0.02389
pull
Entries 92
Mean −383.2
Std Dev 0

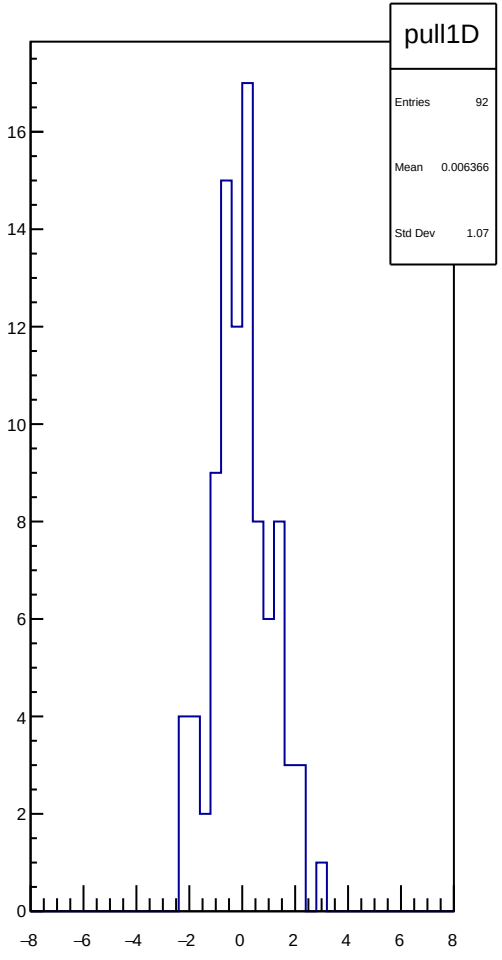

pull1D
Entries 92
Mean 0.006906
Std Dev 0.9601

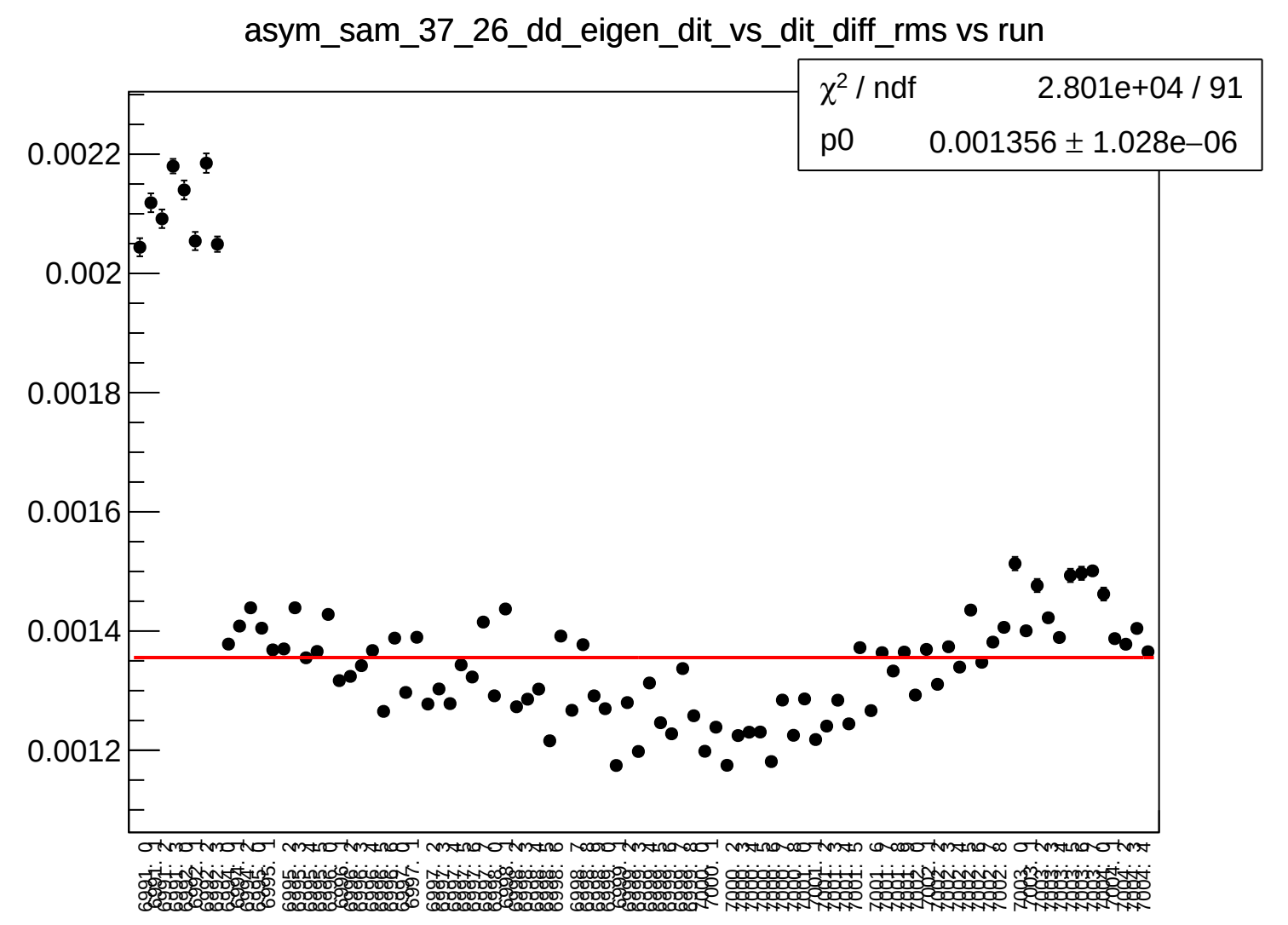

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.897e+04 / 91
p0 22.26 ± 0.0169
30
28
26
24
22
20
18
16

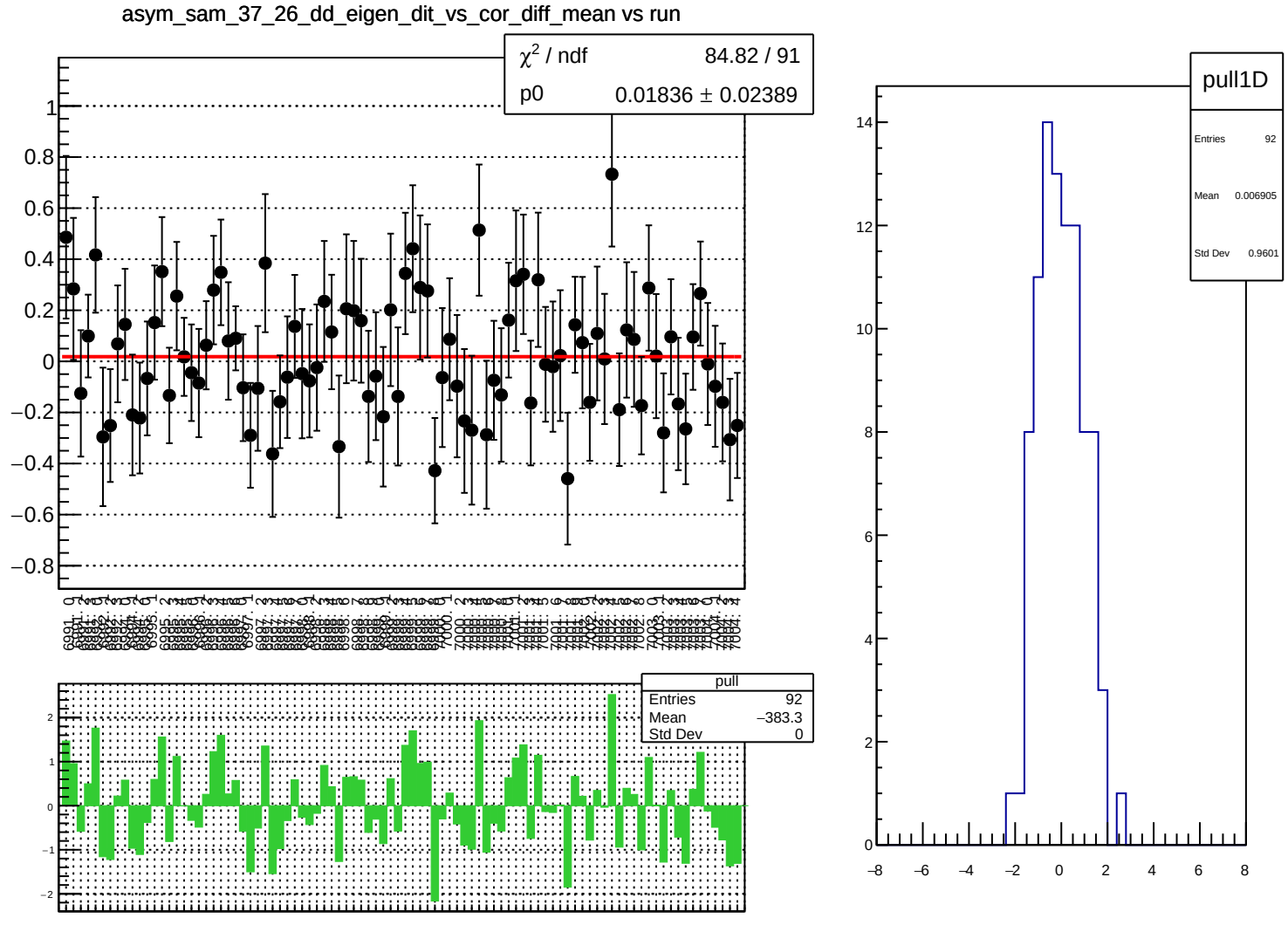

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.81 / 91
p0 0.01836 ± 0.02389
pull
Entries 92
Mean −383.2
Std Dev 0
pull1D
Entries 92
Mean 0.006906
Std Dev 0.9601

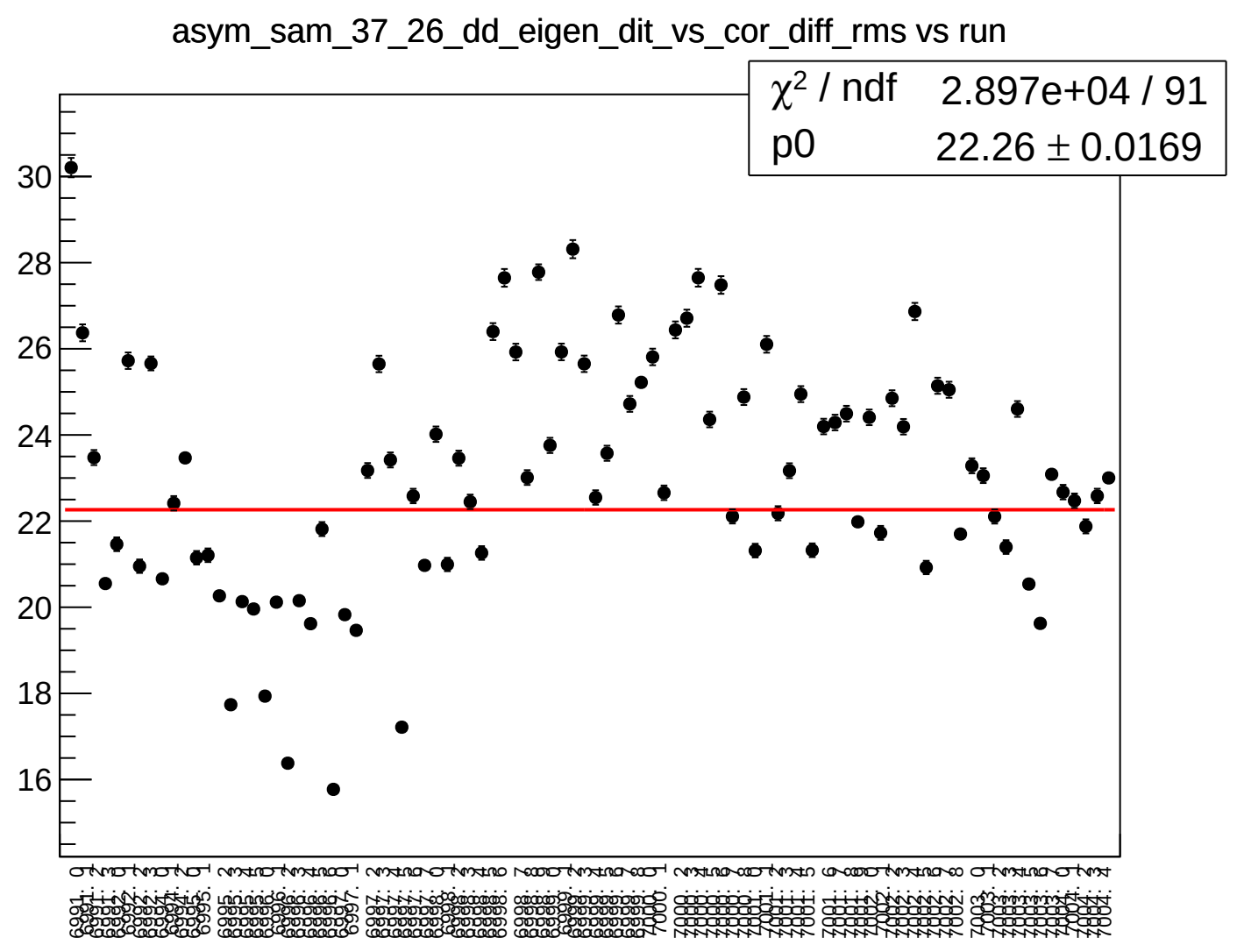

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.897e+04 / 91
p0 22.26 ± 0.0169
30
28
26
24
22
20
18
16

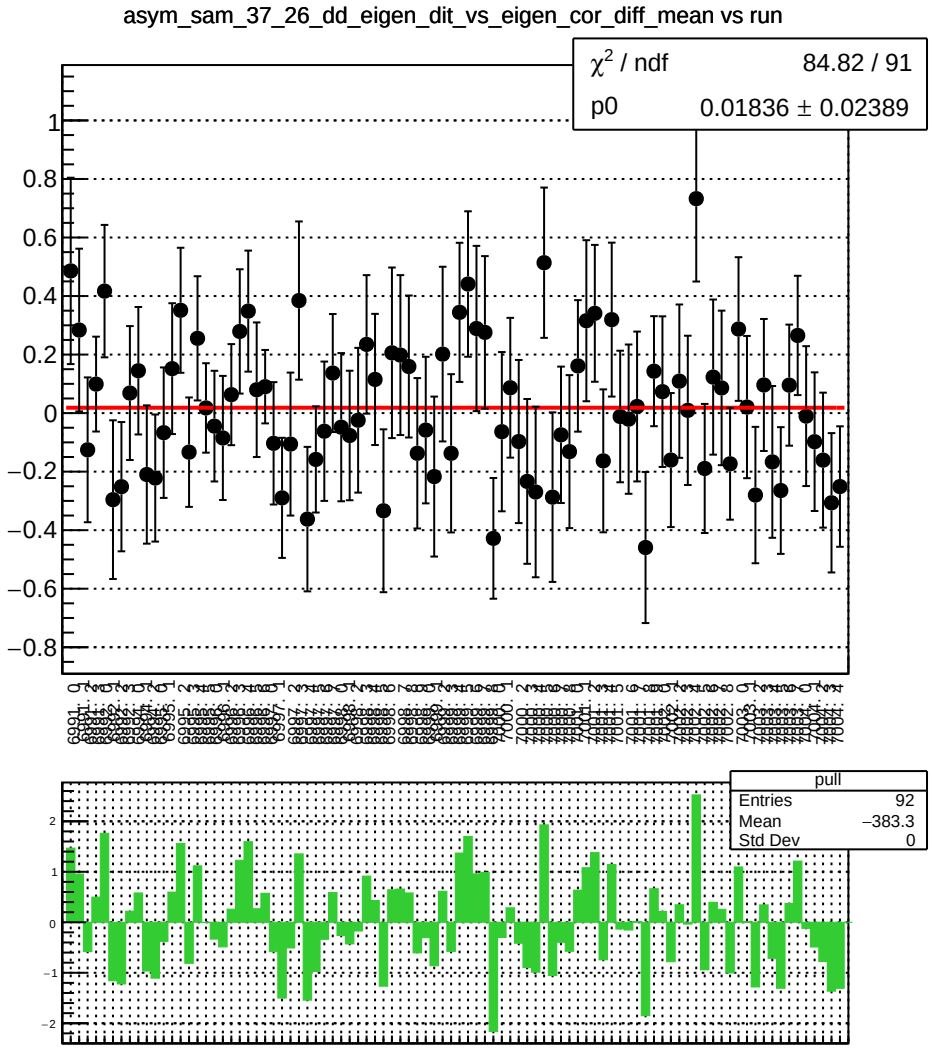

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.4 / 91
p0 −3.972e−07 ± 1.454e−06
pull
Entries 92
Mean −656.1
Std Dev 0

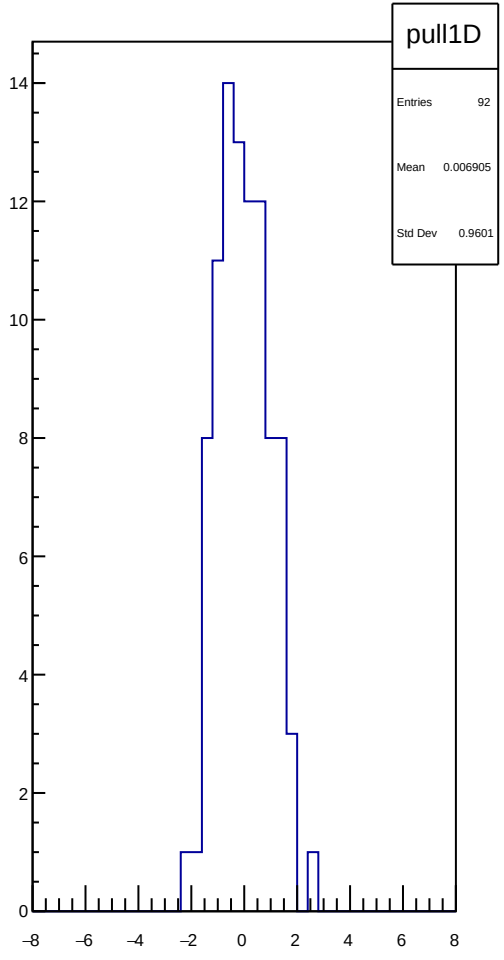

pull1D
Entries 92
Mean 0.006366
Std Dev 1.07

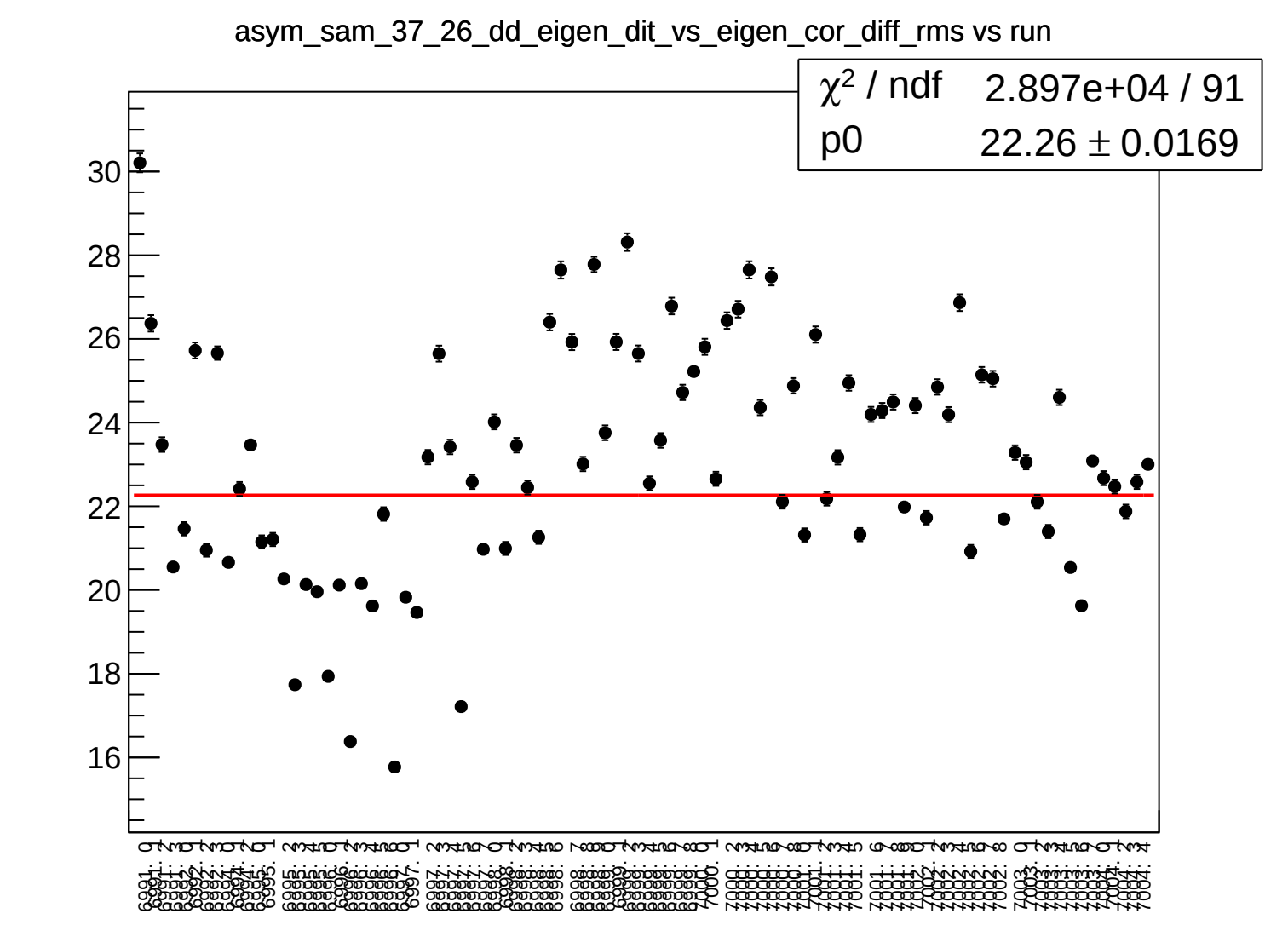

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.801e+04 / 91
p0 0.001356 ± 1.028e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

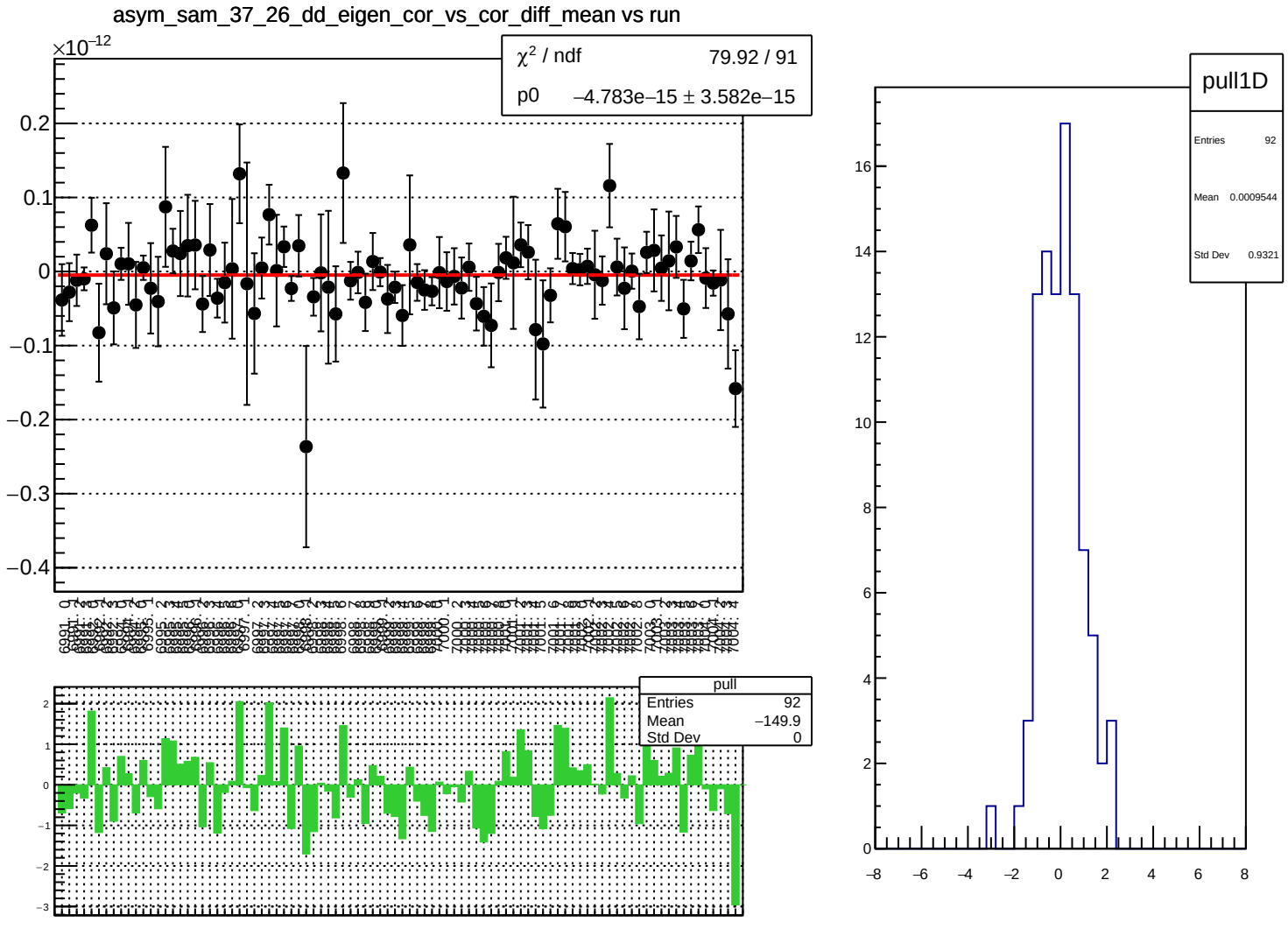

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.82 / 91
p0 0.01836 ± 0.02389
pull
Entries 92
Mean −383.3
Std Dev 0
pull1D
Entries 92
Mean 0.006905
Std Dev 0.9601

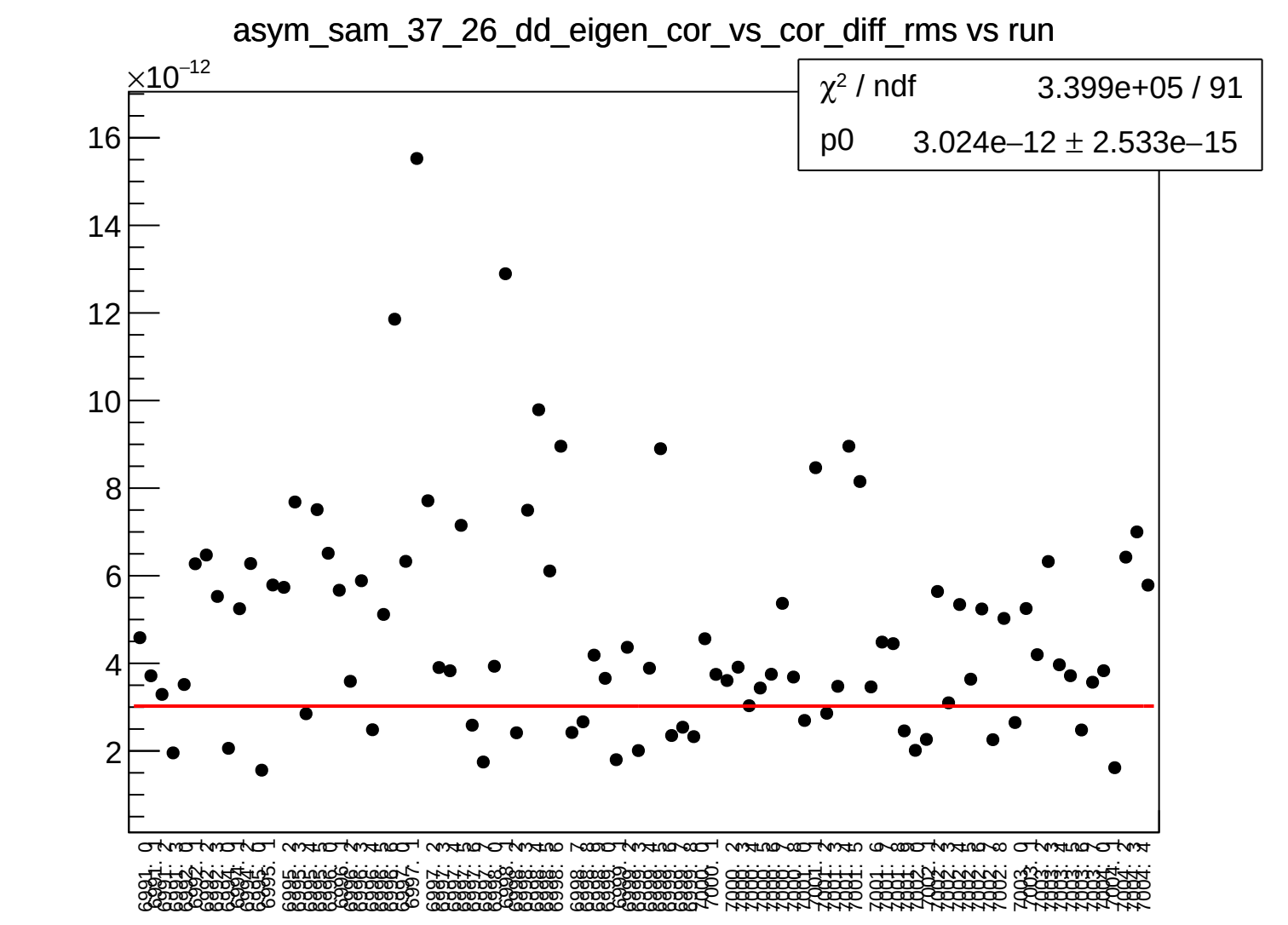

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.897e+04 / 91
p0 22.26 ± 0.0169
30
28
26
24
22
20
18
16

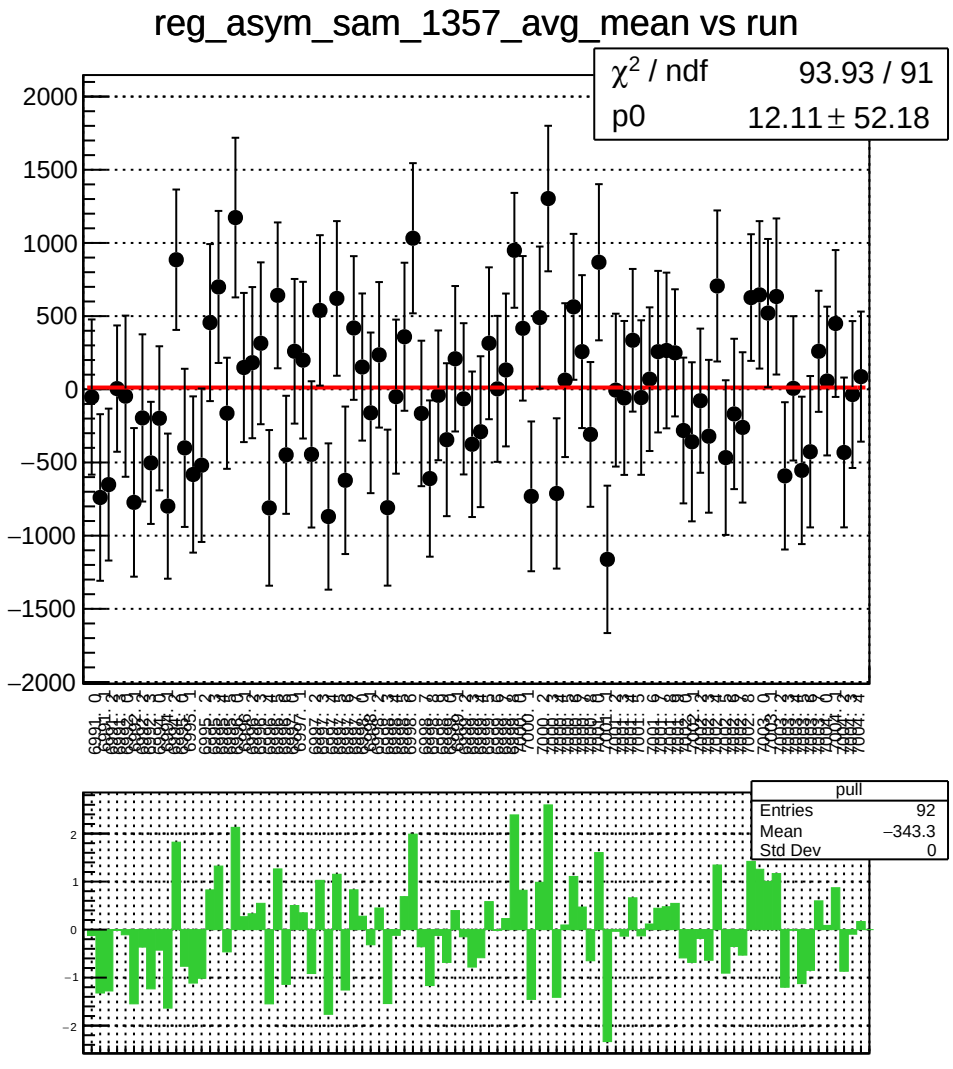

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.82 / 91
p0 0.01836 ± 0.02389
pull
Entries 92
Mean −383.3
Std Dev 0

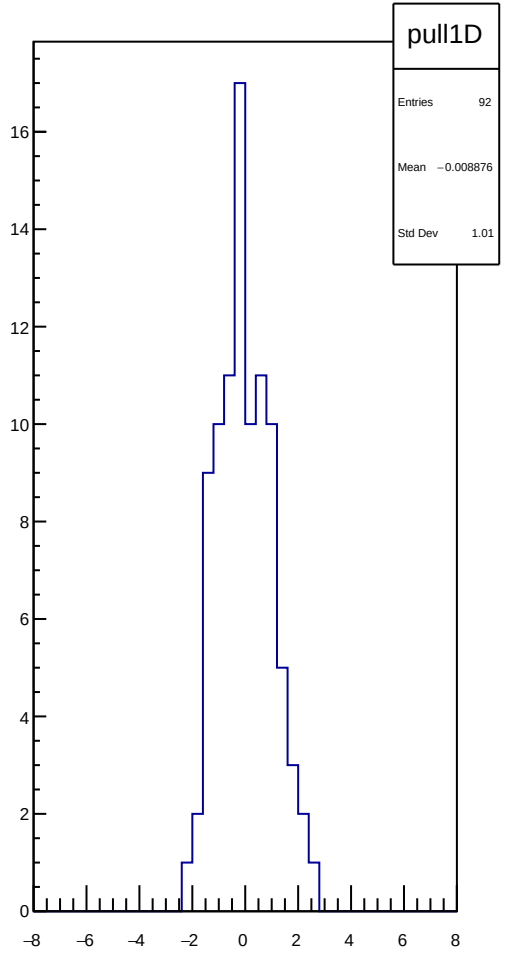

pull1D
Entries 92
Mean 0.006905
Std Dev 0.9601

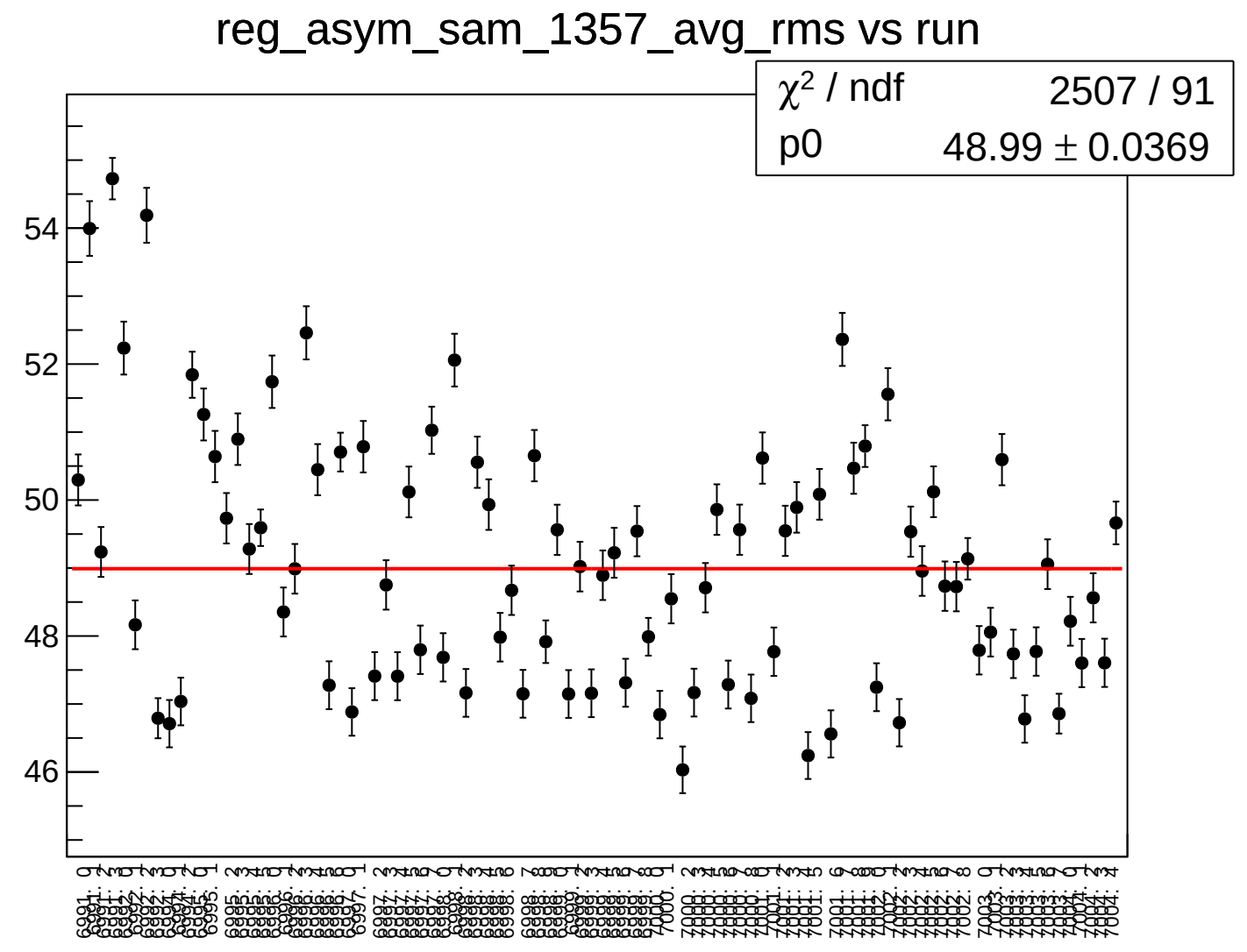

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.897e+04 / 91
p0 22.26 ± 0.0169
30
28
26
24
22
20
18
16

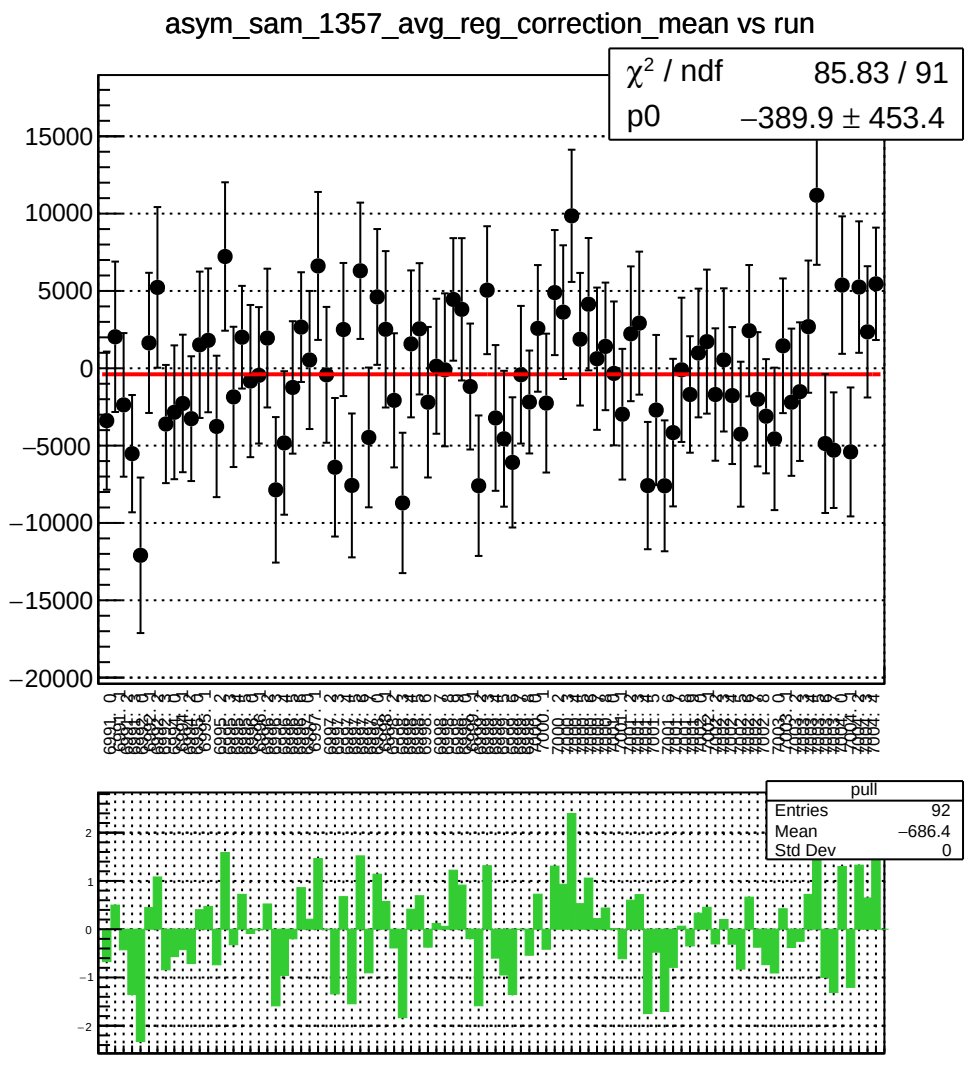

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.92 / 91
p0 −4.783e−15 ± 3.582e−15
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 92
Mean −149.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.0009544
Std Dev 0.9321
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

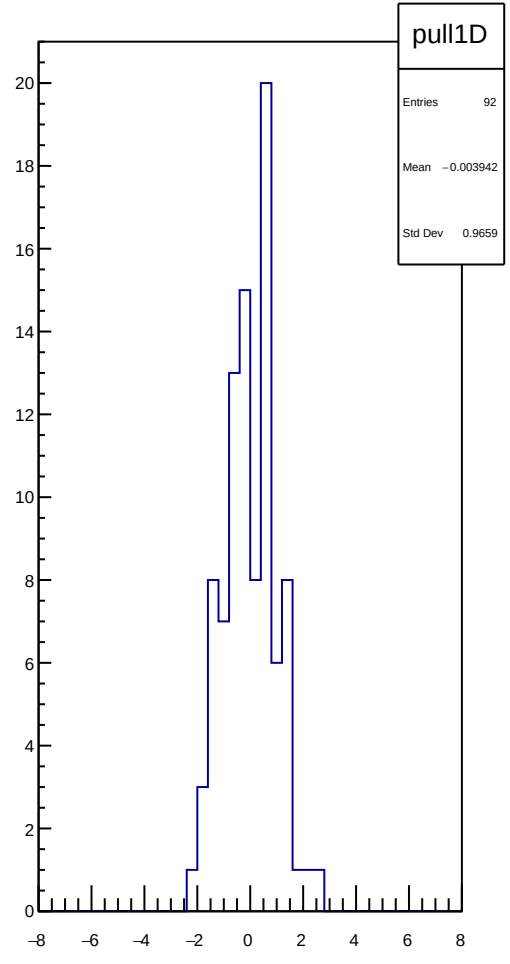

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.399e+05 / 91
p0 3.024e−12 ± 2.533e−15
16
14
12
10
8
6
4
2

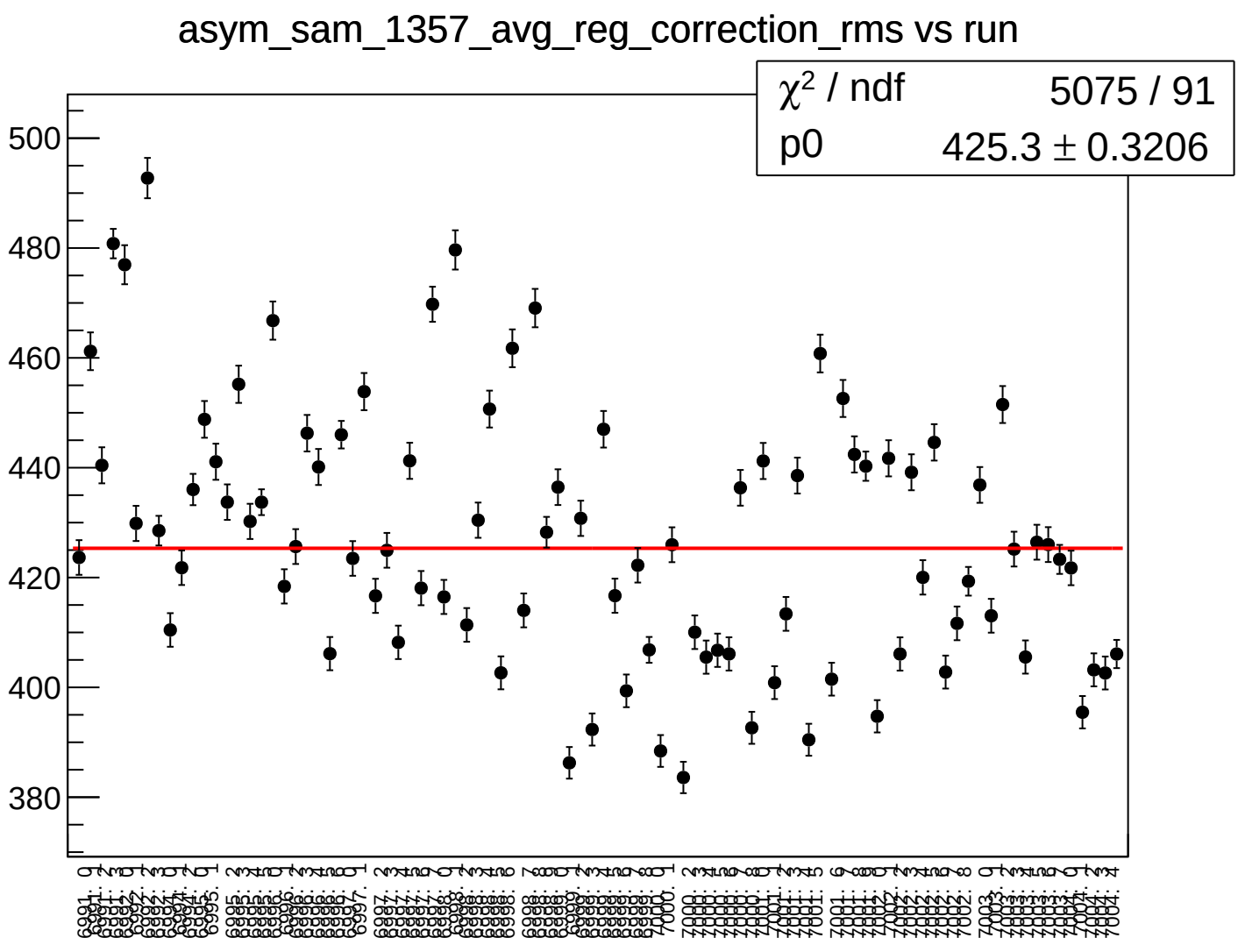

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 93.93 / 91
p0 12.11 ± 52.18
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 92
Mean −343.3
Std Dev 0
2
1
0
−1
−2

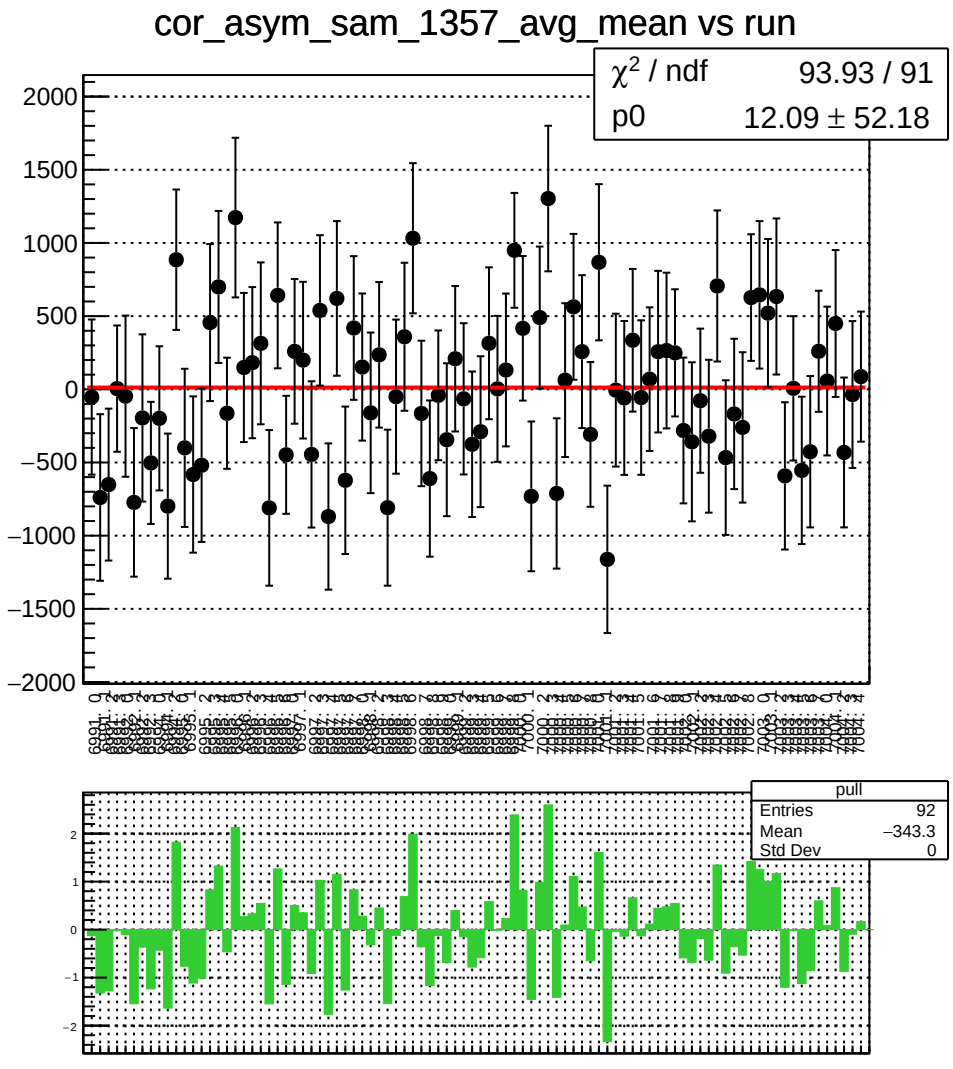

pull1D
Entries 92
Mean −0.008876
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

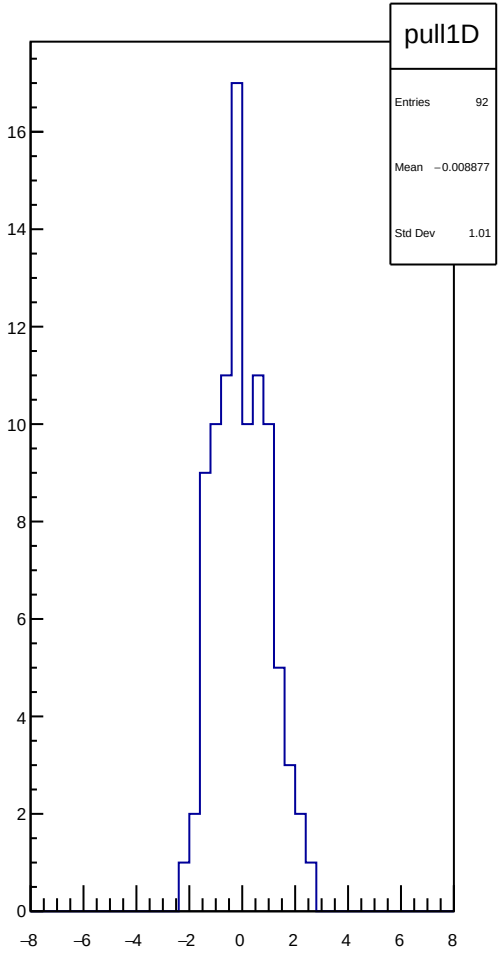

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2507 / 91
p0 48.99 ± 0.0369
54
52
50
48
46

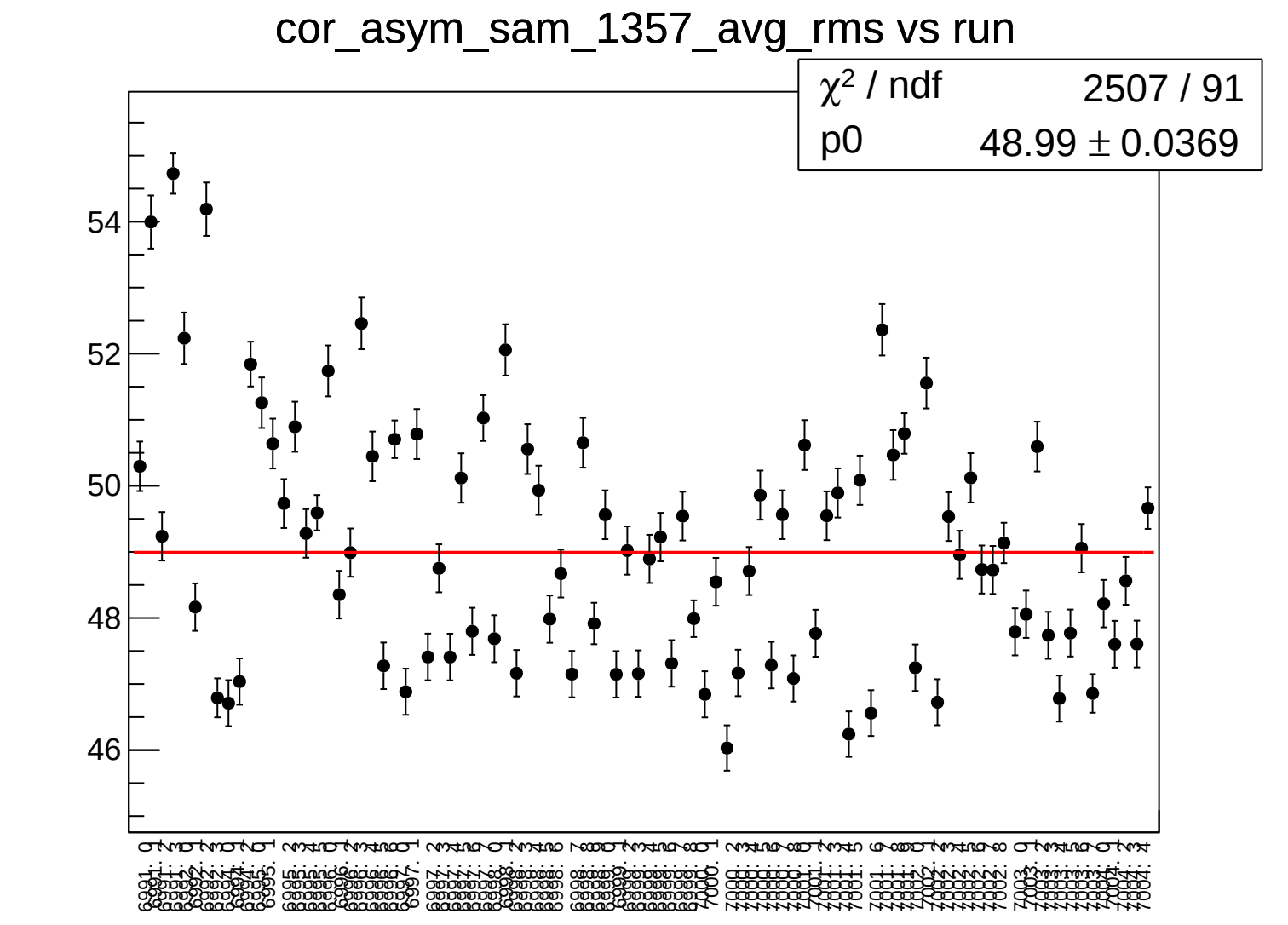

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 85.83 / 91
p0 −389.9 ± 453.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −686.4
Std Dev 0
2
1
0
−1
−2

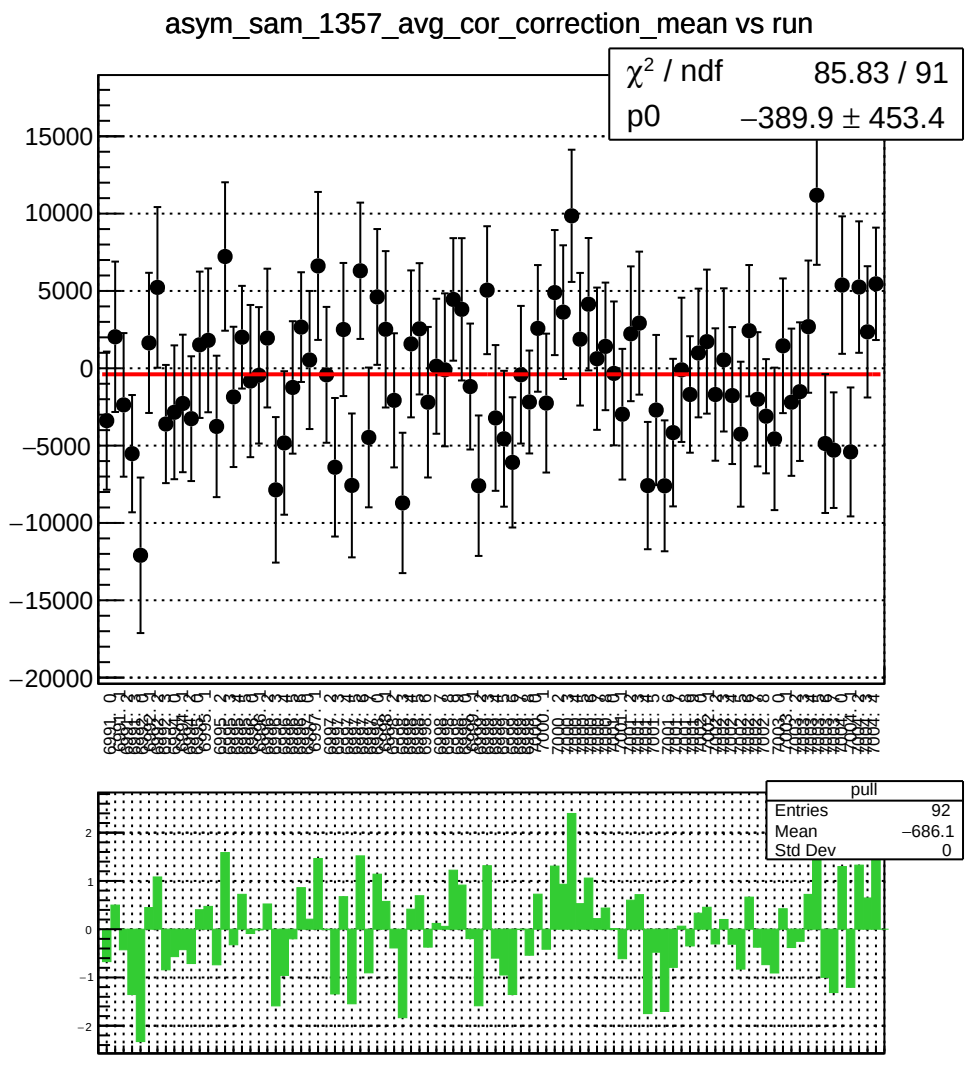

pull1D
Entries 92
Mean −0.003942
Std Dev 0.9659
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

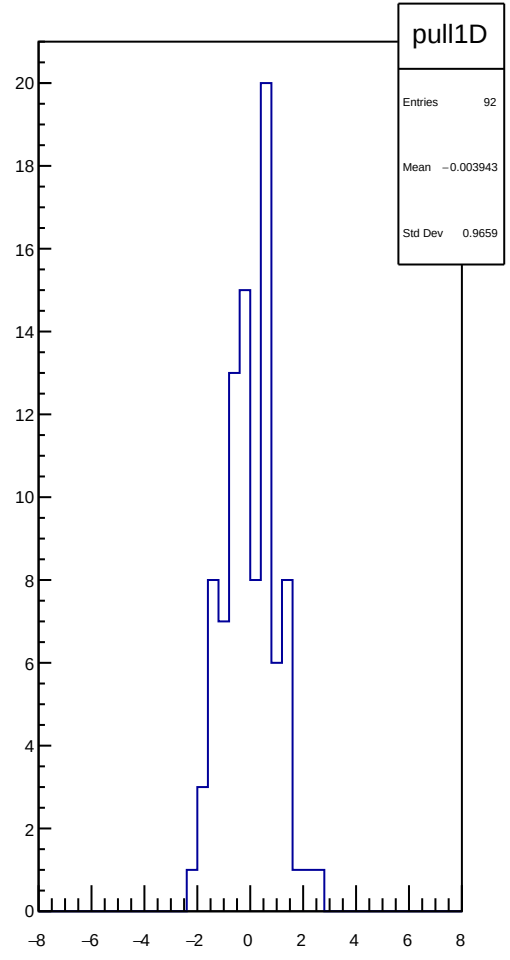

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 5075 / 91
p0 425.3 ± 0.3206
500
480
460
440
420
400
380

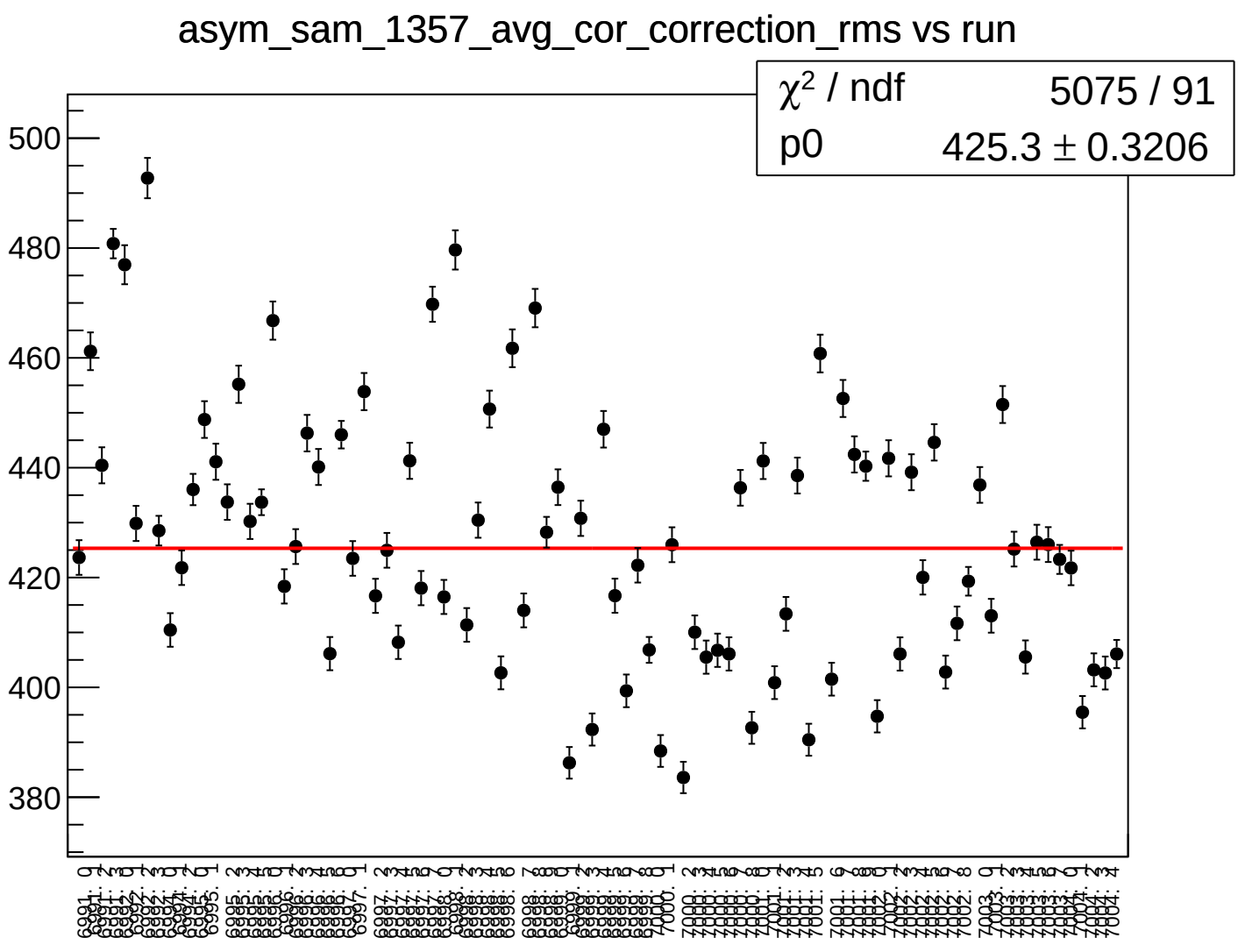

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 93.93 / 91
p0 12.09 ± 52.18
pull
Entries 92
Mean −343.3
Std Dev 0

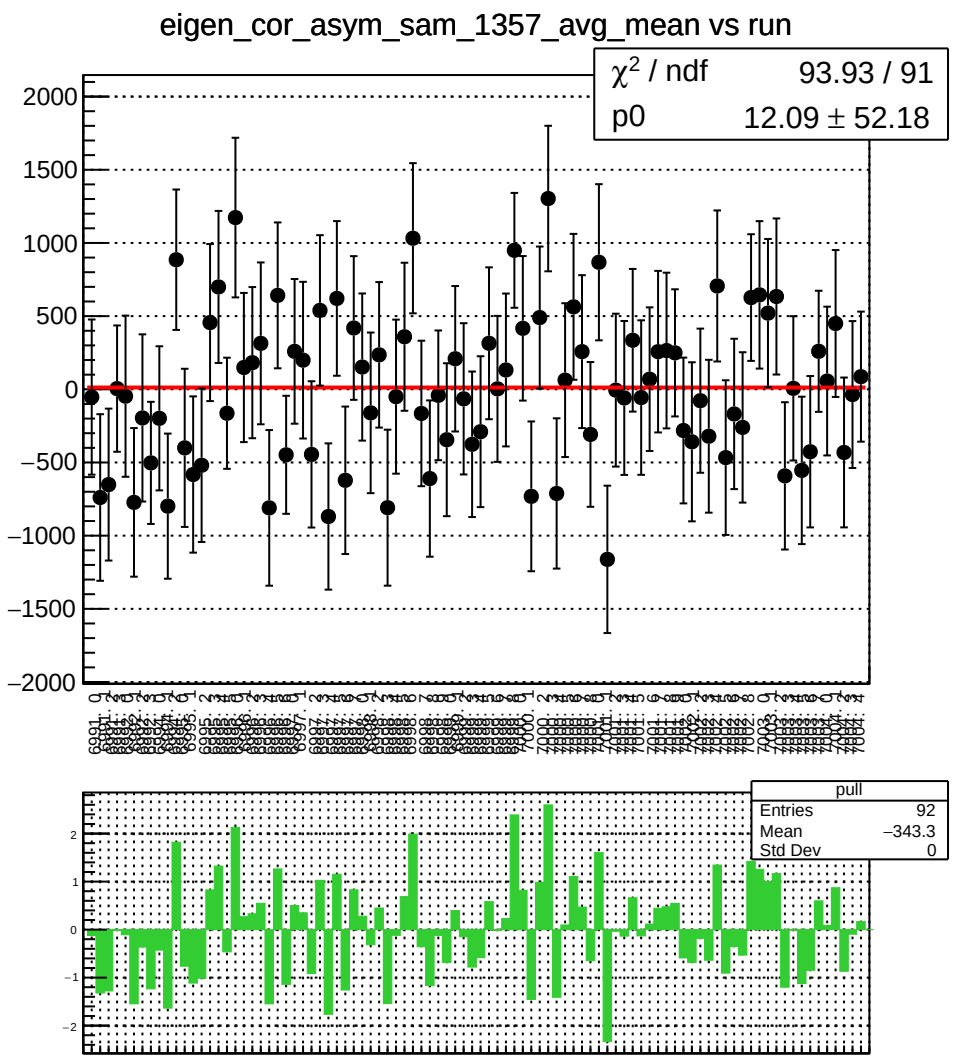

pull1D
Entries 92
Mean −0.008877
Std Dev 1.01

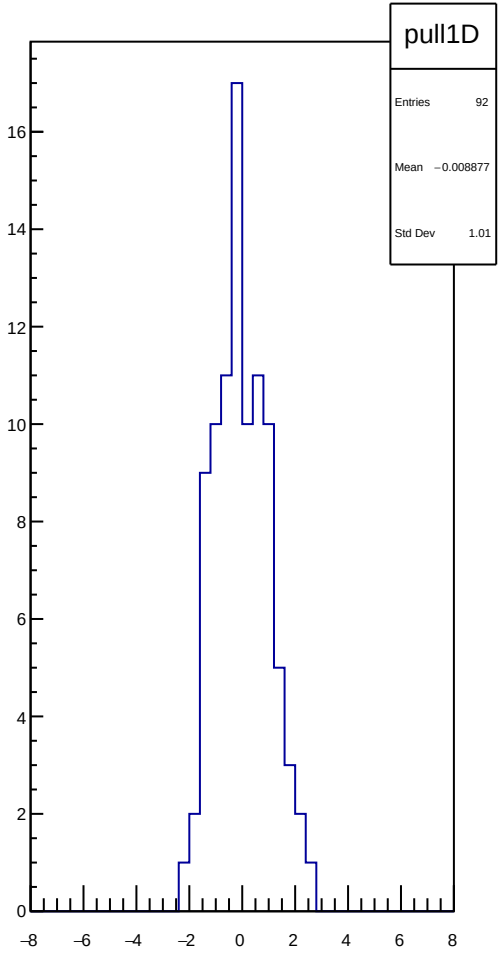

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2507 / 91
p0 48.99 ± 0.0369
54
52
50
48
46

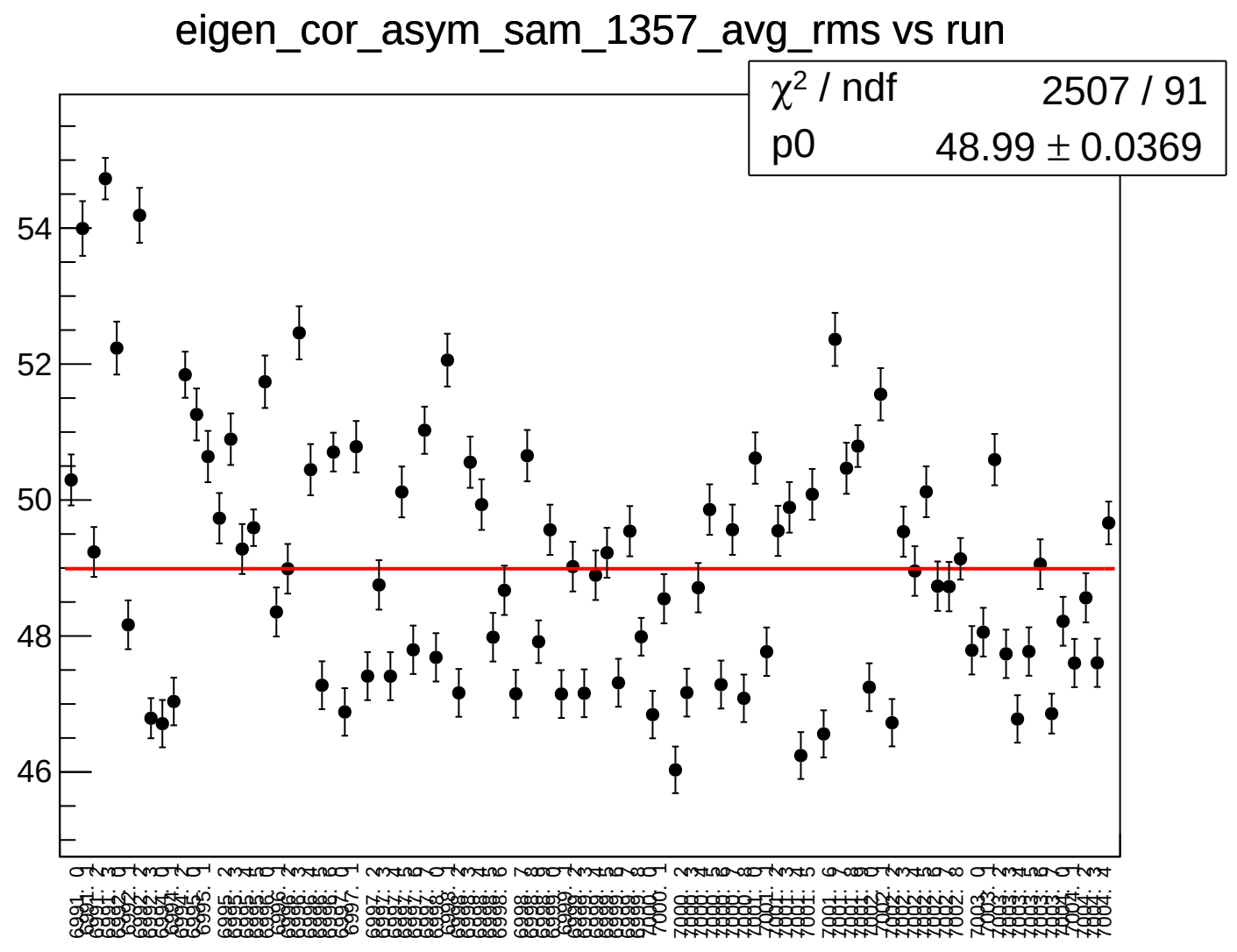

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 85.83 / 91
p0 −389.9 ± 453.4
pull
Entries 92
Mean −686.1
Std Dev 0

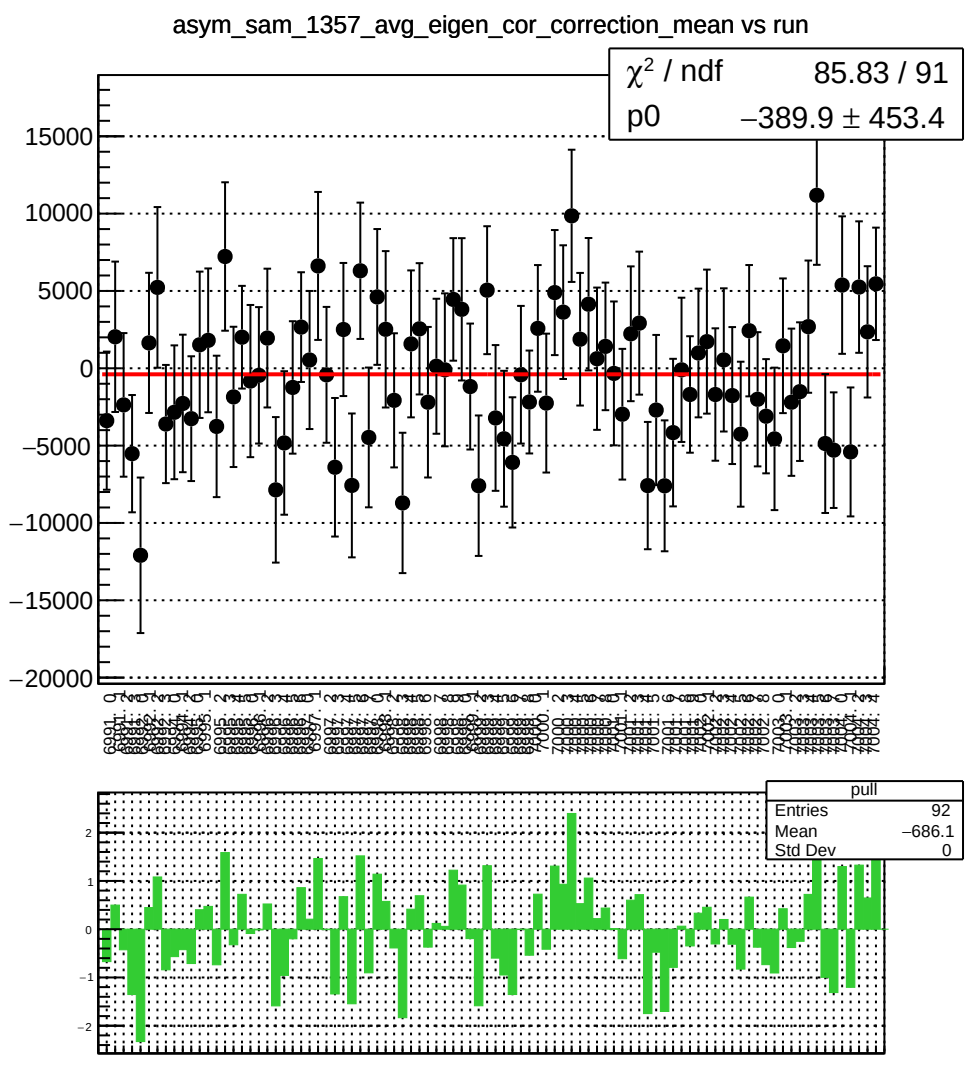

pull1D
Entries 92
Mean −0.003943
Std Dev 0.9659

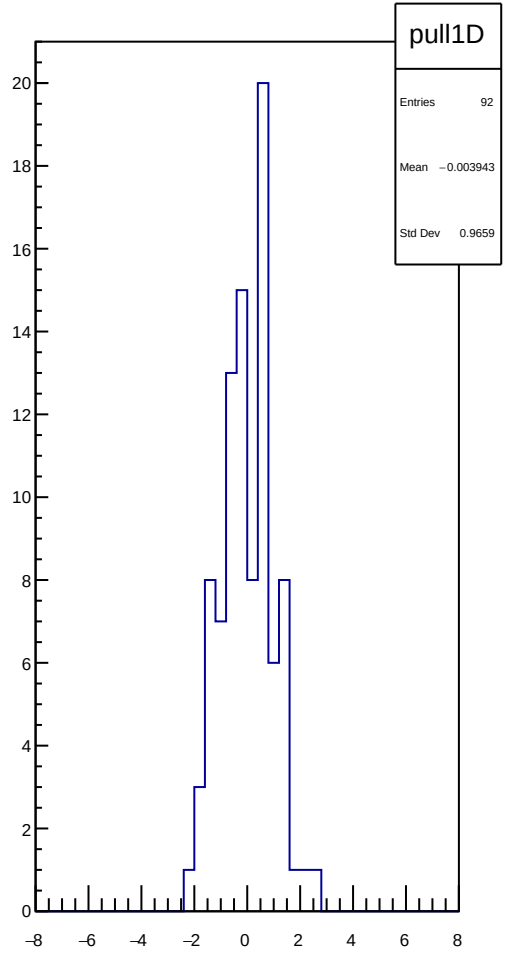

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 5075 / 91
p0 425.3 ± 0.3206
500
480
460
440
420
400
380

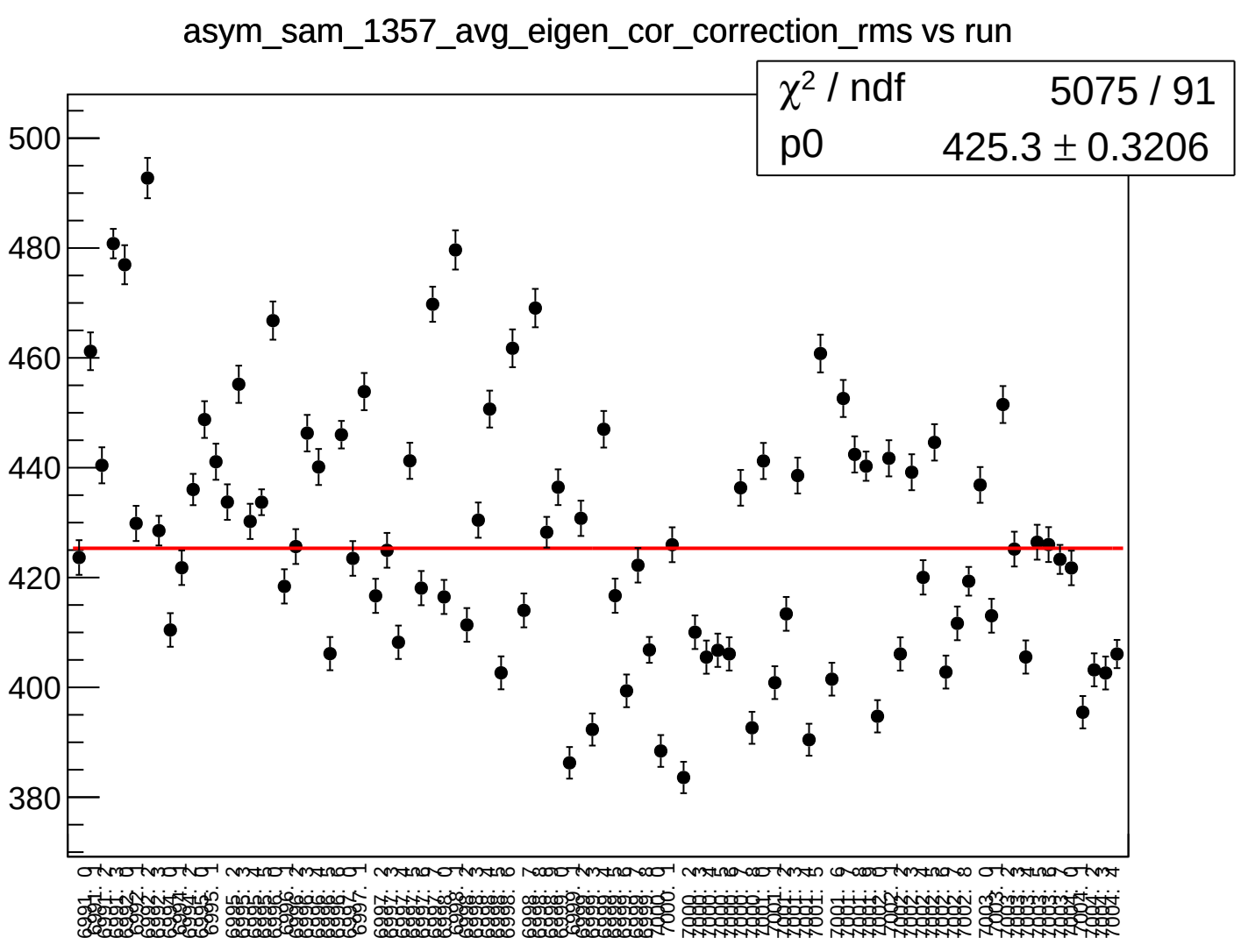

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 93.93 / 91
p0 12.09 ± 52.18
pull
Entries 92
Mean −343.3
Std Dev 0

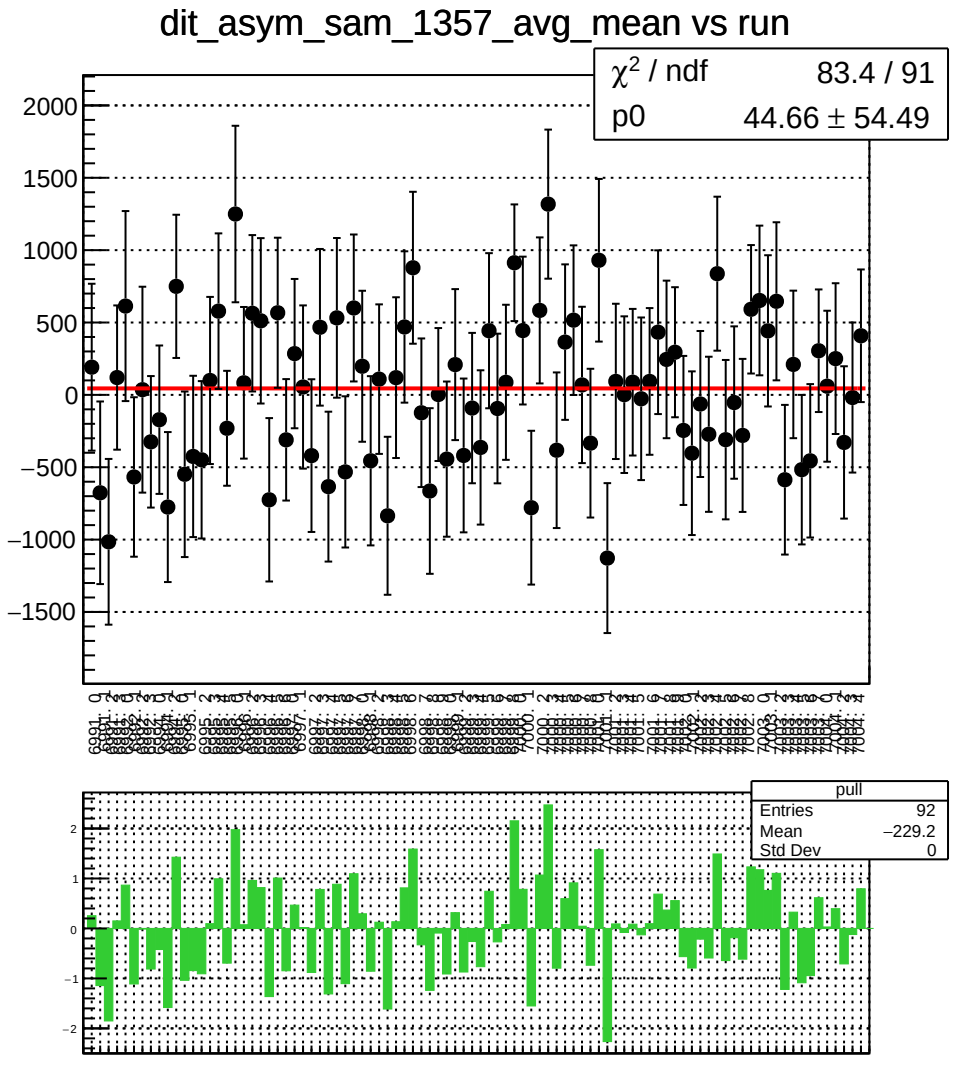

pull1D
Entries 92
Mean −0.008877
Std Dev 1.01

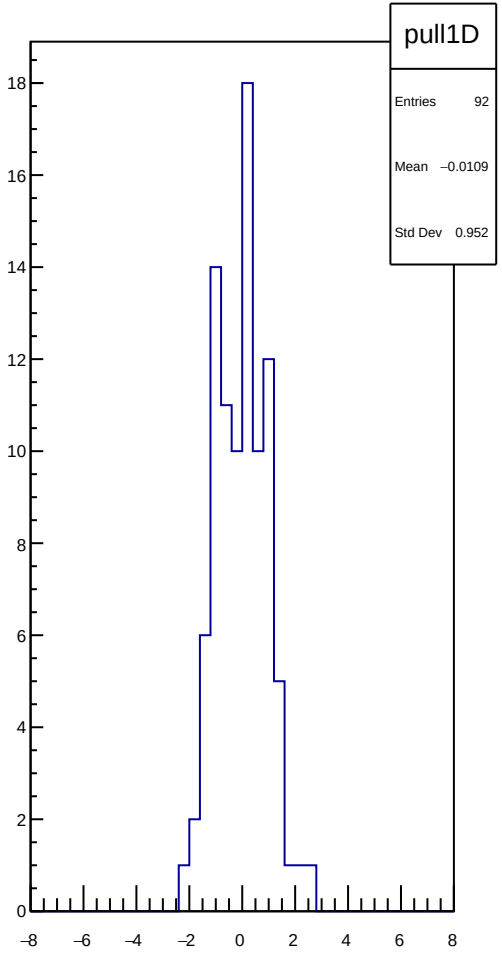

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2507 / 91
p0 48.99 ± 0.0369
54
52
50
48
46

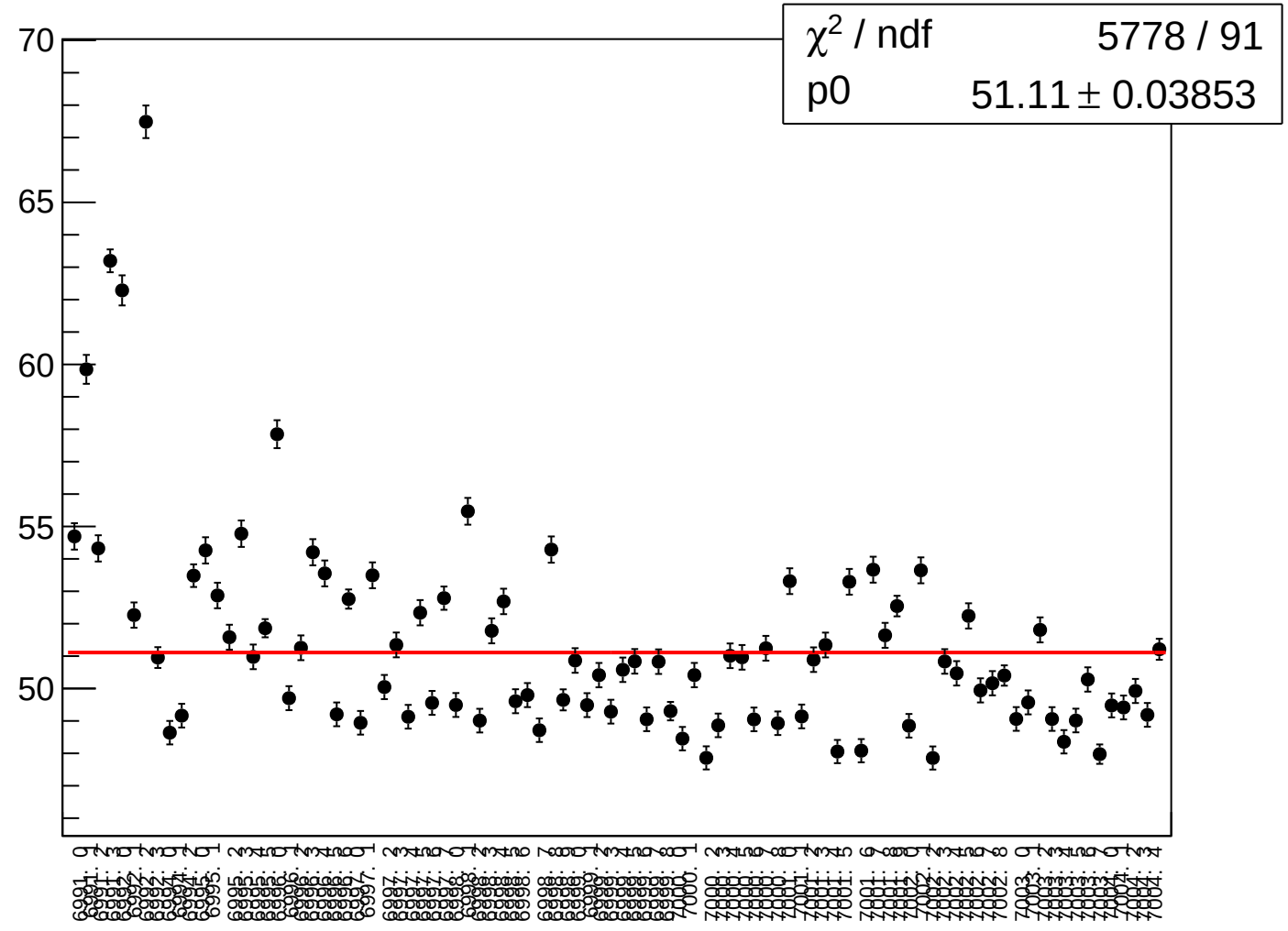

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.83 / 91
p0 −389.9 ± 453.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −686.1
Std Dev 0
2
1
0
−1
−2

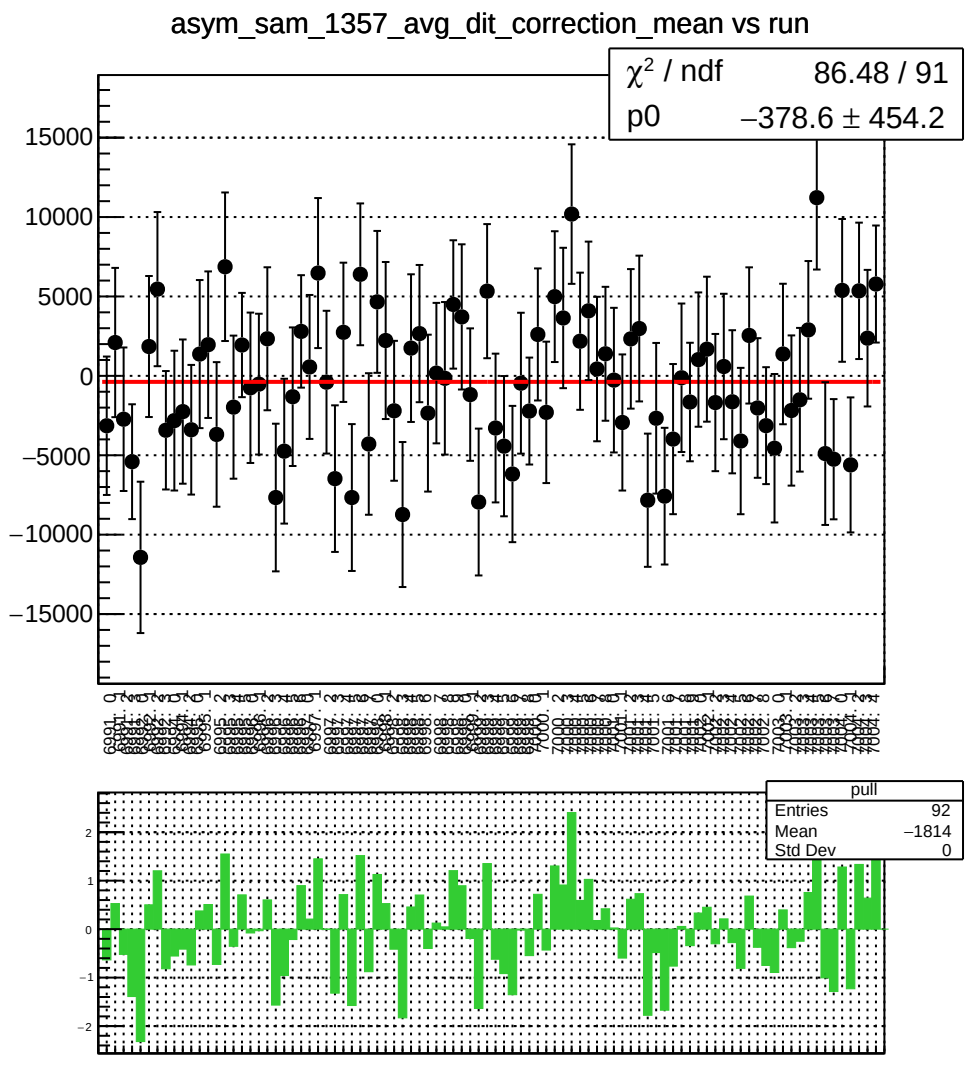

pull1D
Entries 92
Mean −0.003943
Std Dev 0.9659
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

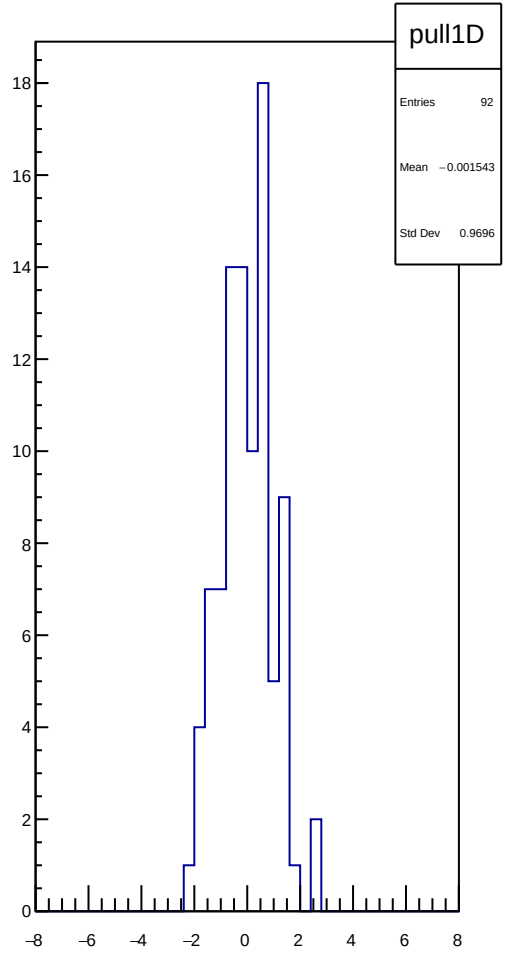

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 5075 / 91
p0 425.3 ± 0.3206
500
480
460
440
420
400
380

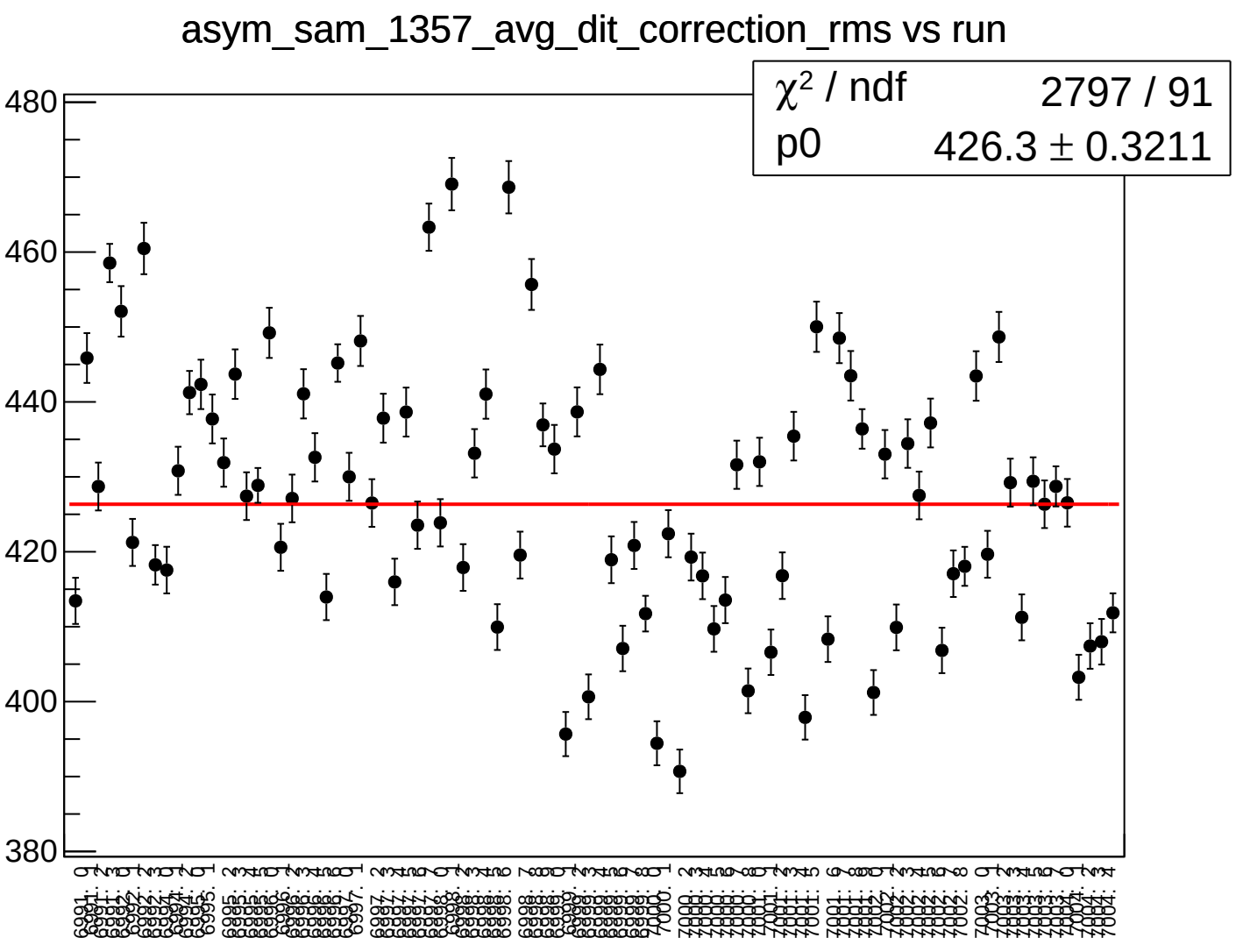

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 83.4 / 91
p0 44.66 ± 54.49
pull
Entries 92
Mean −229.2
Std Dev 0

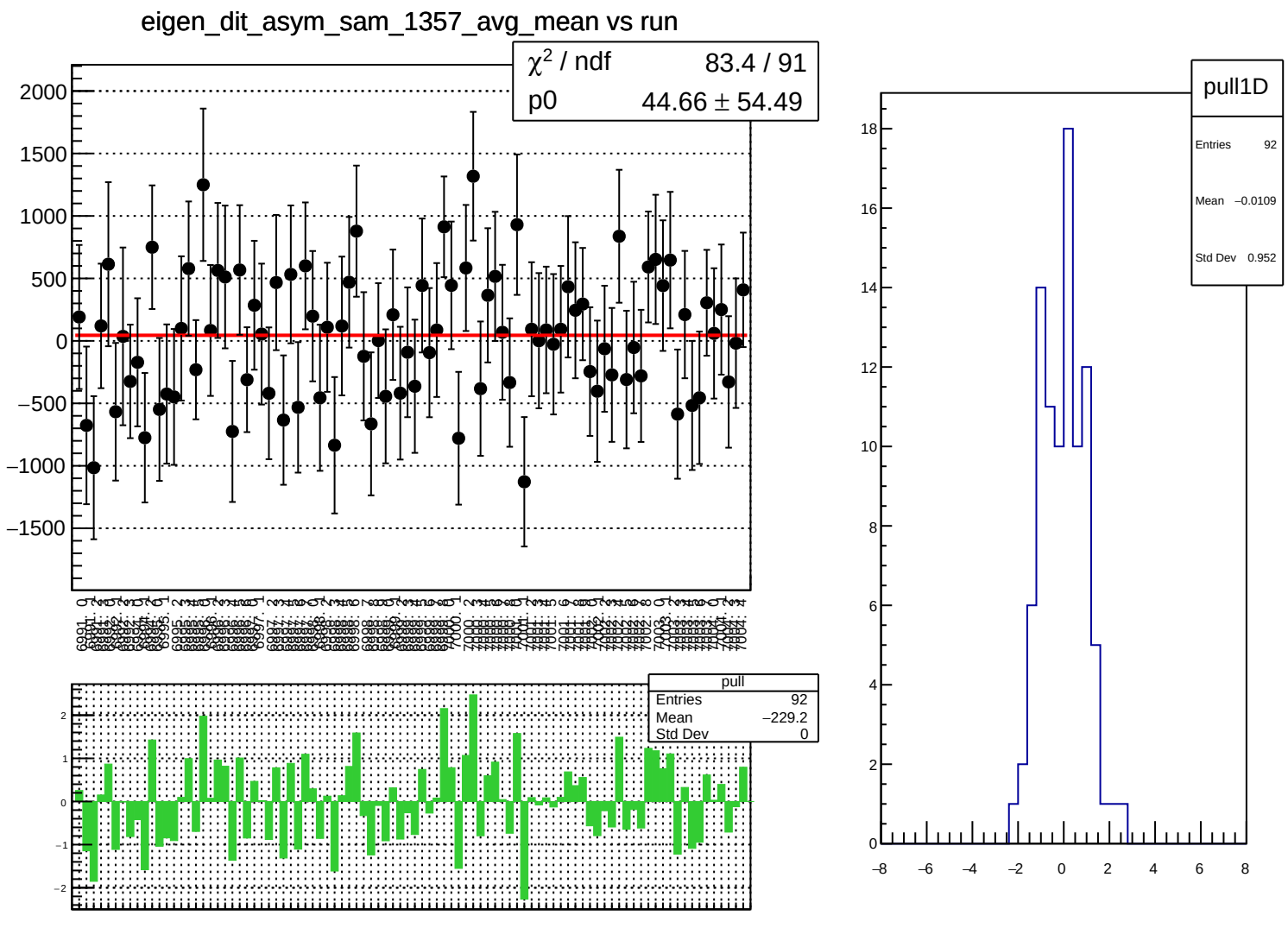

pull1D
Entries 92
Mean −0.0109
Std Dev 0.952

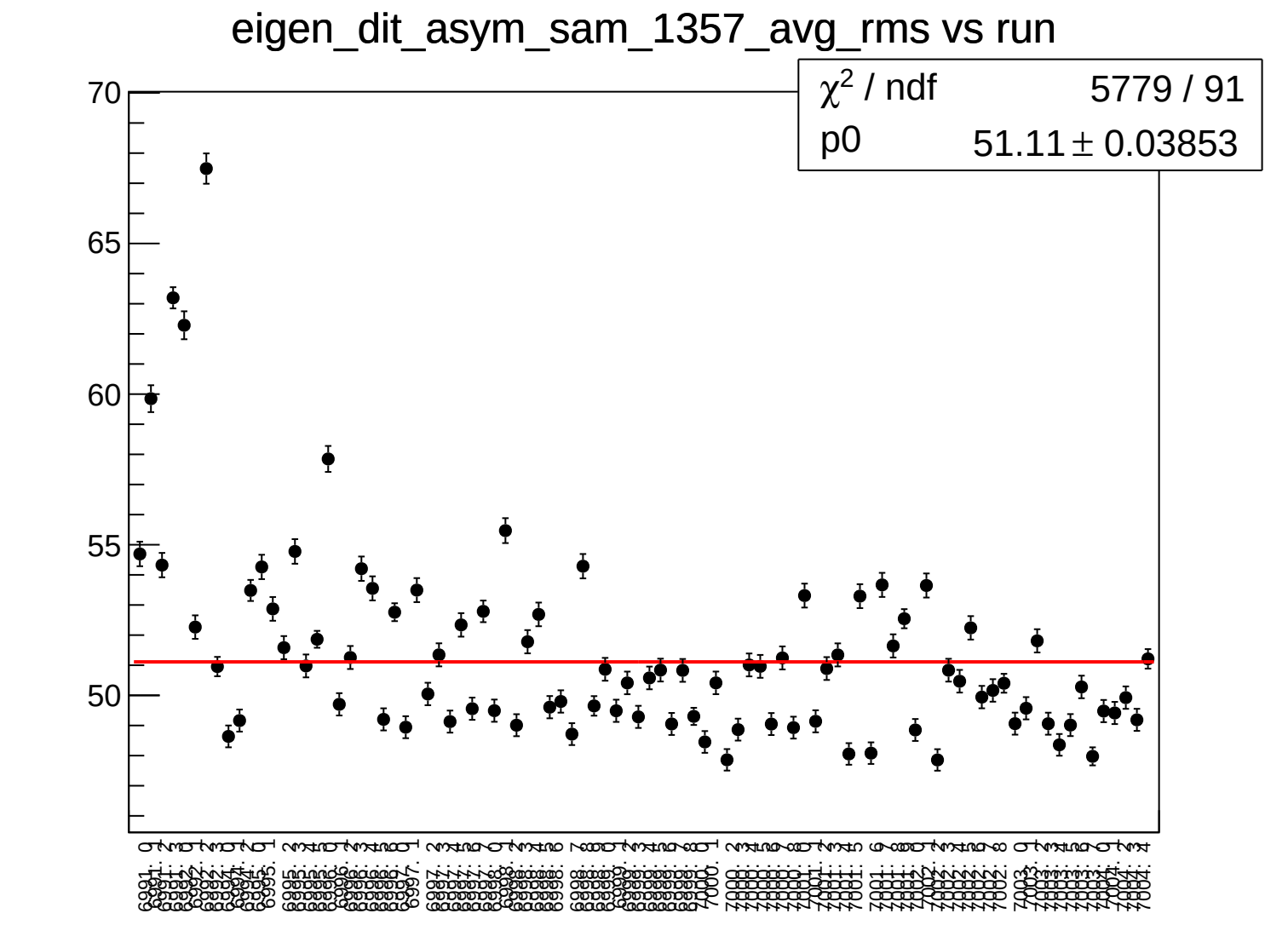

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5778 / 91
p0 51.11 ± 0.03853
70
65
60
55
50

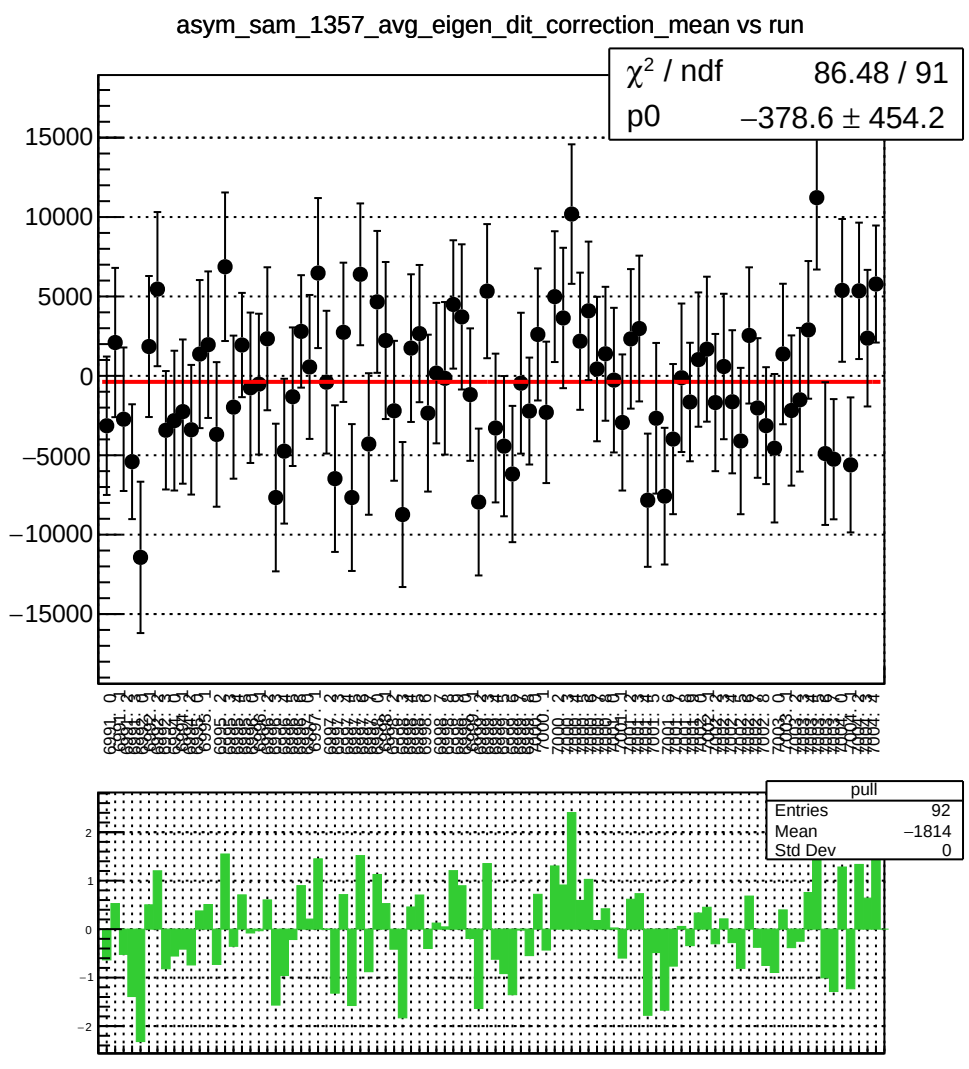

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 86.48 / 91
p0 −378.6 ± 454.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1814
Std Dev 0
2
1
0
−1
−2

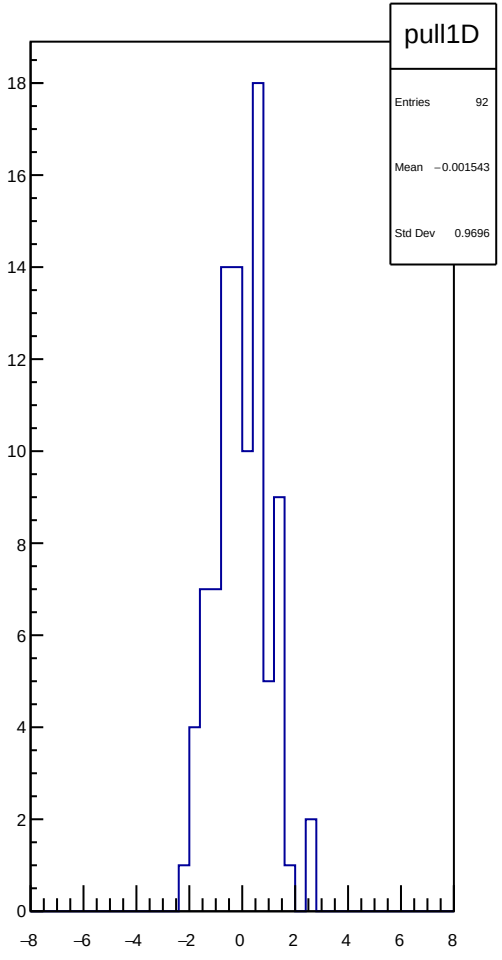

pull1D
Entries 92
Mean −0.001543
Std Dev 0.9696
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

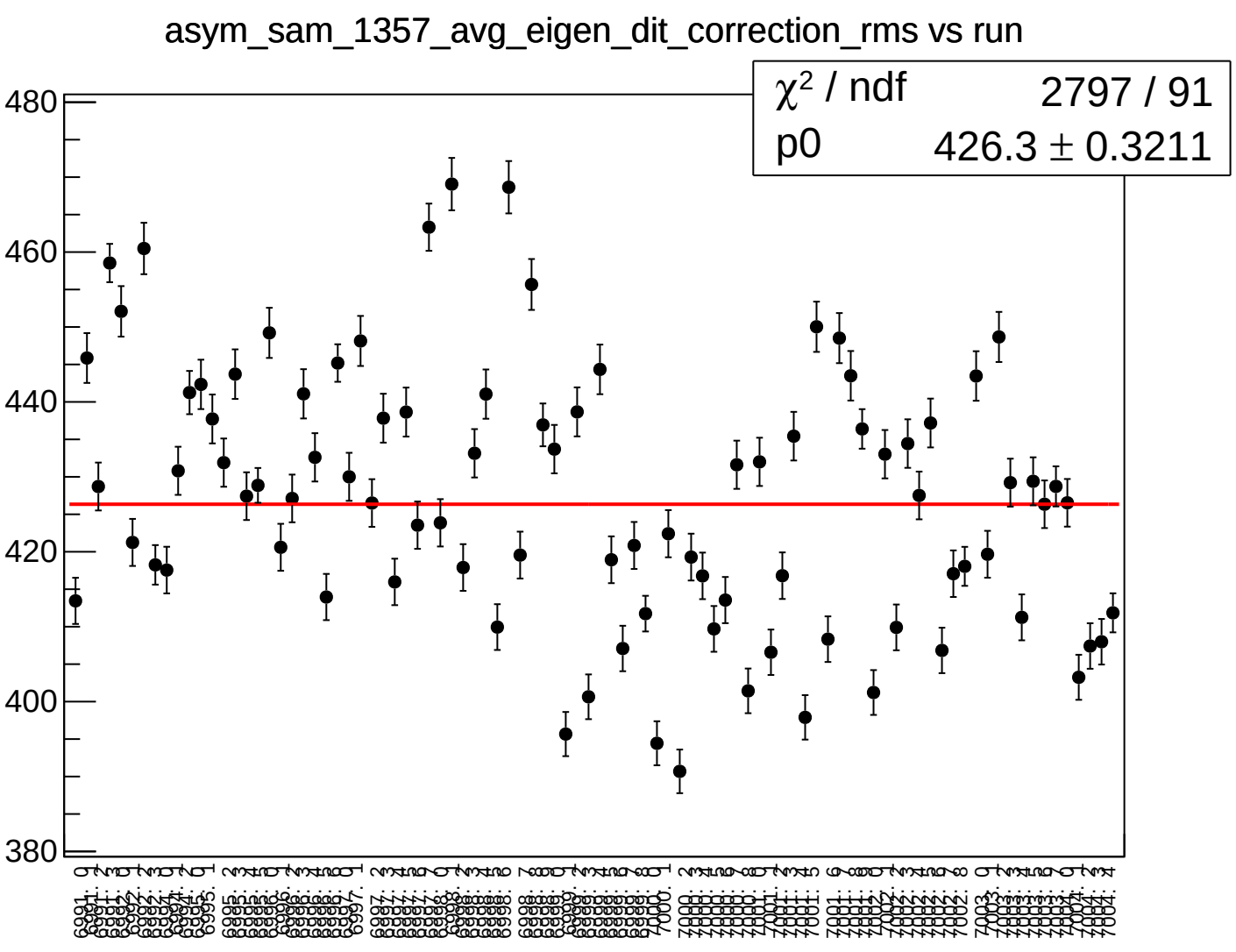

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 2797 / 91
p0 426.3 ± 0.3211
480
460
440
420
400
380

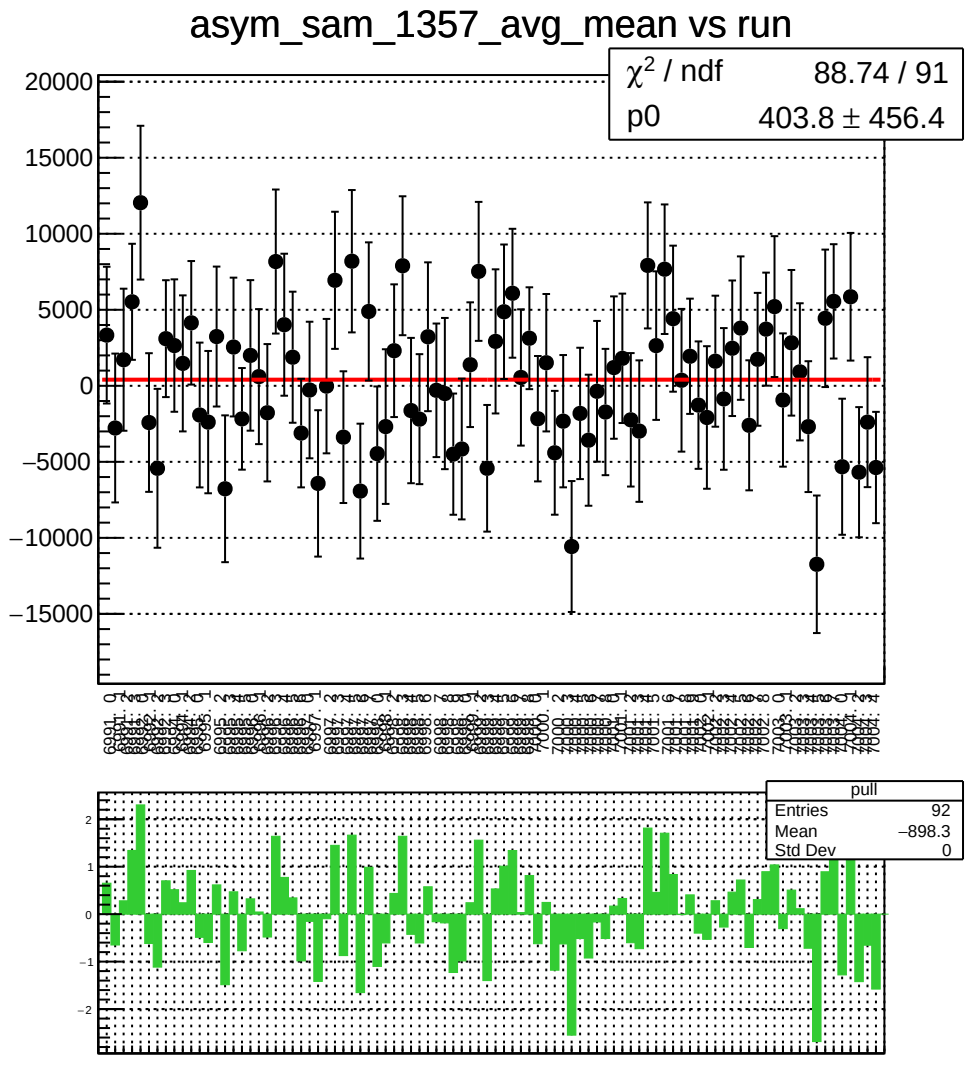

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 83.4 / 91
p0 44.66 ± 54.49
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −229.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0109
Std Dev 0.952
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

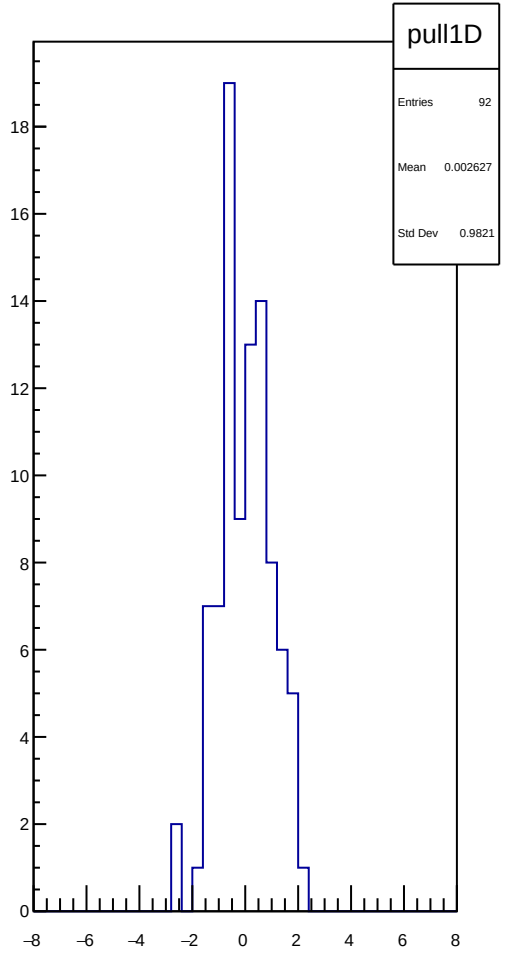

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5779 / 91
p0 51.11 ± 0.03853
70
65
60
55
50

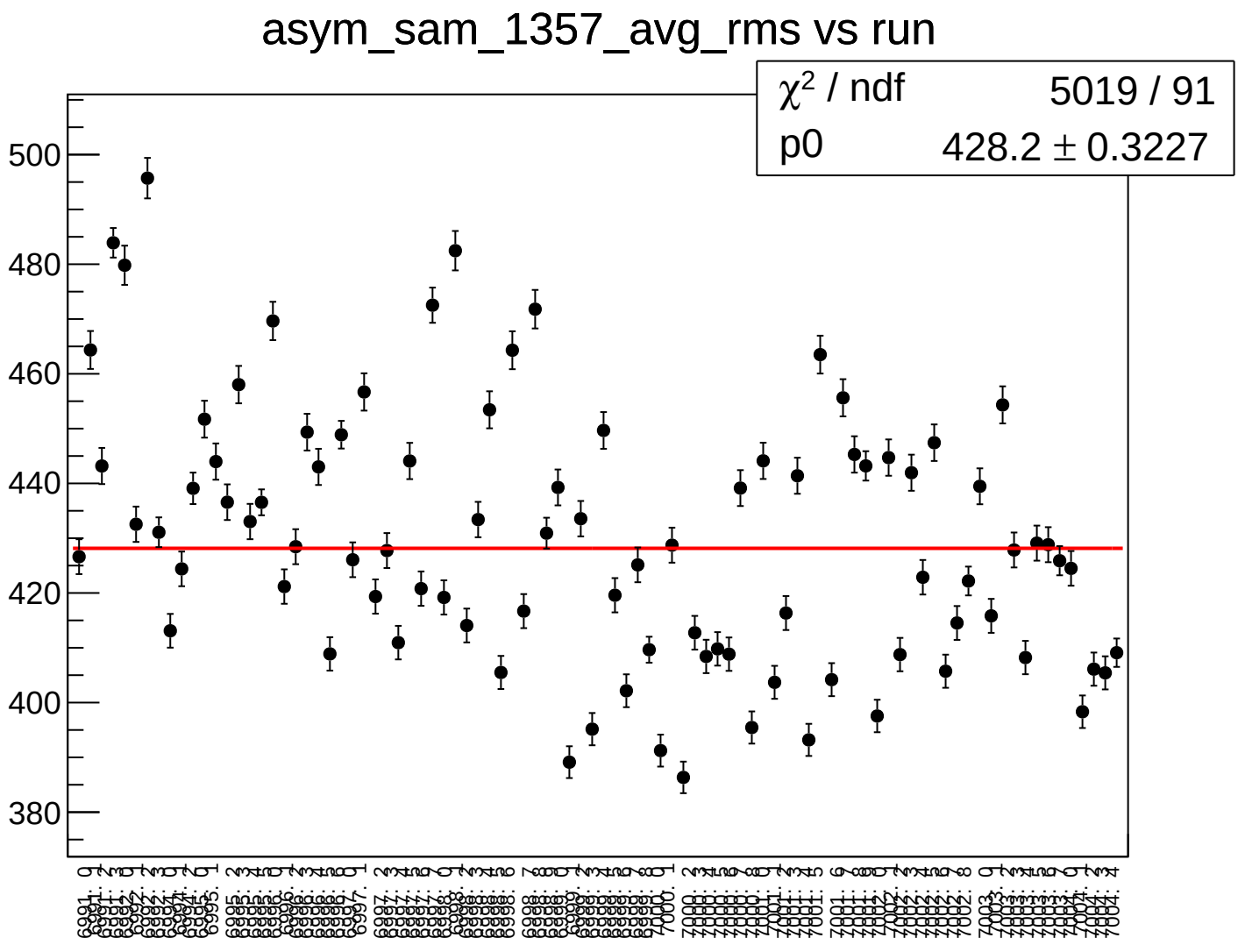

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.48 / 91
p0 −378.6 ± 454.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1814
Std Dev 0
2
1
0
−1
−2

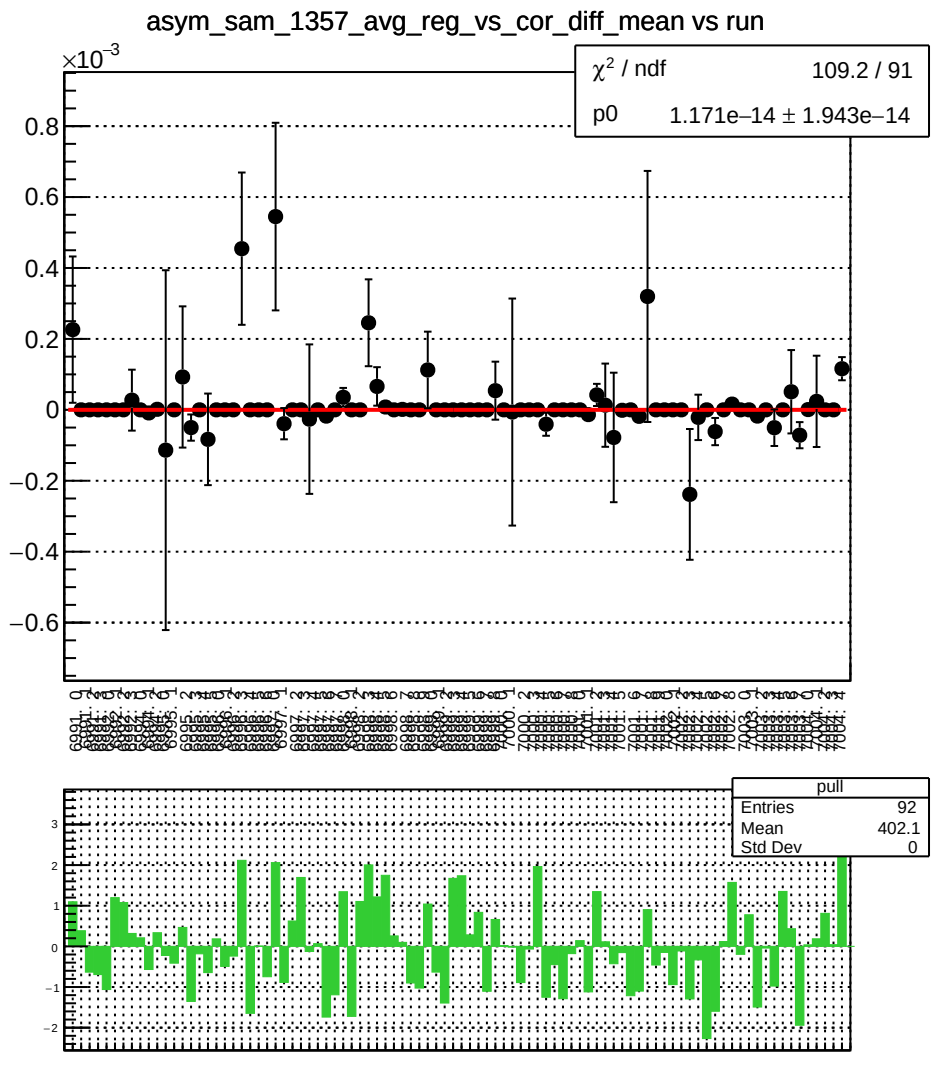

pull1D
Entries 92
Mean −0.001543
Std Dev 0.9696
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

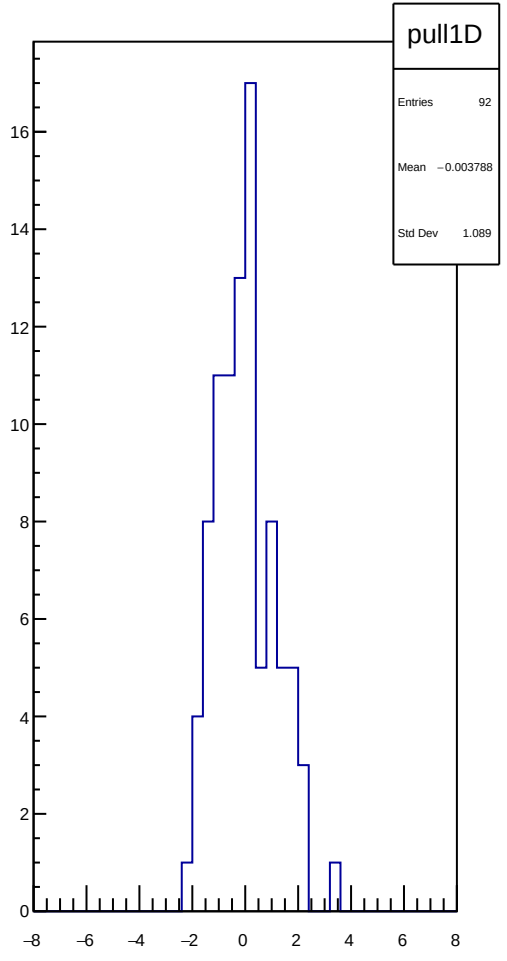

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 2797 / 91
p0 426.3 ± 0.3211
480
460
440
420
400
380

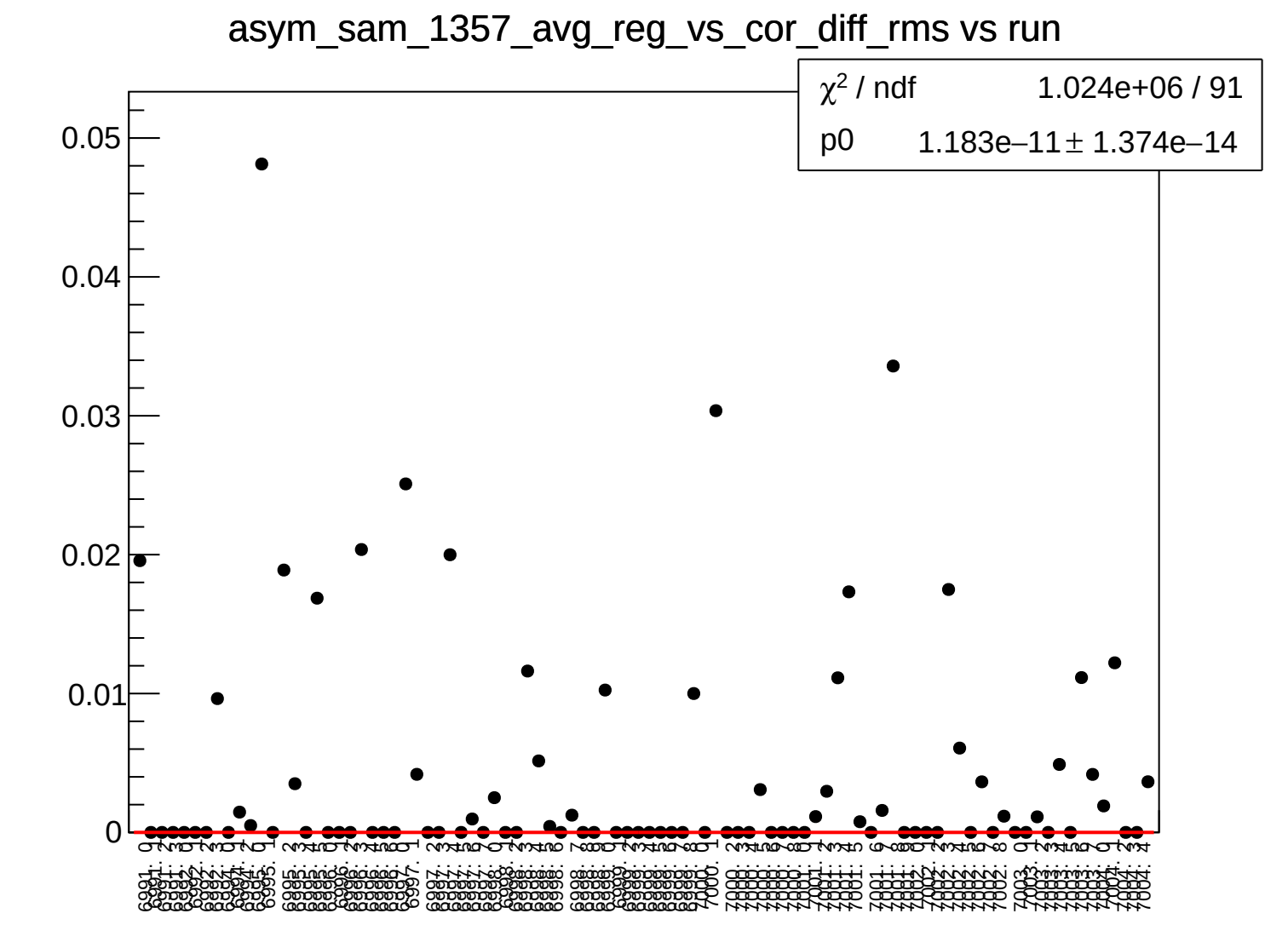

asym_sam_1357_avg_mean vs run
χ² / ndf 88.74 / 91
p0 403.8 ± 456.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −898.3
Std Dev 0
2
1
0
−1
−2

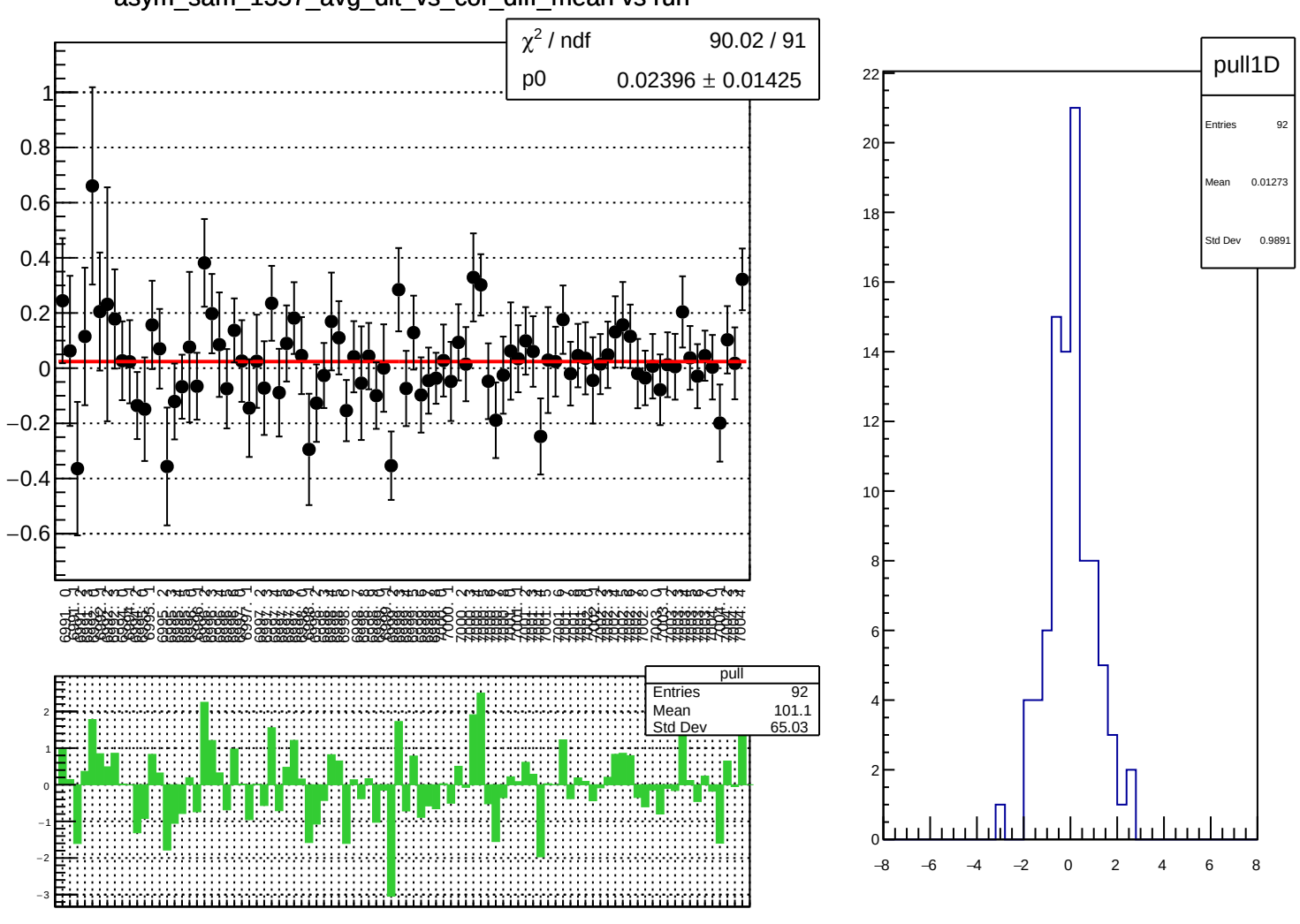

pull1D
Entries 92
Mean 0.002627
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

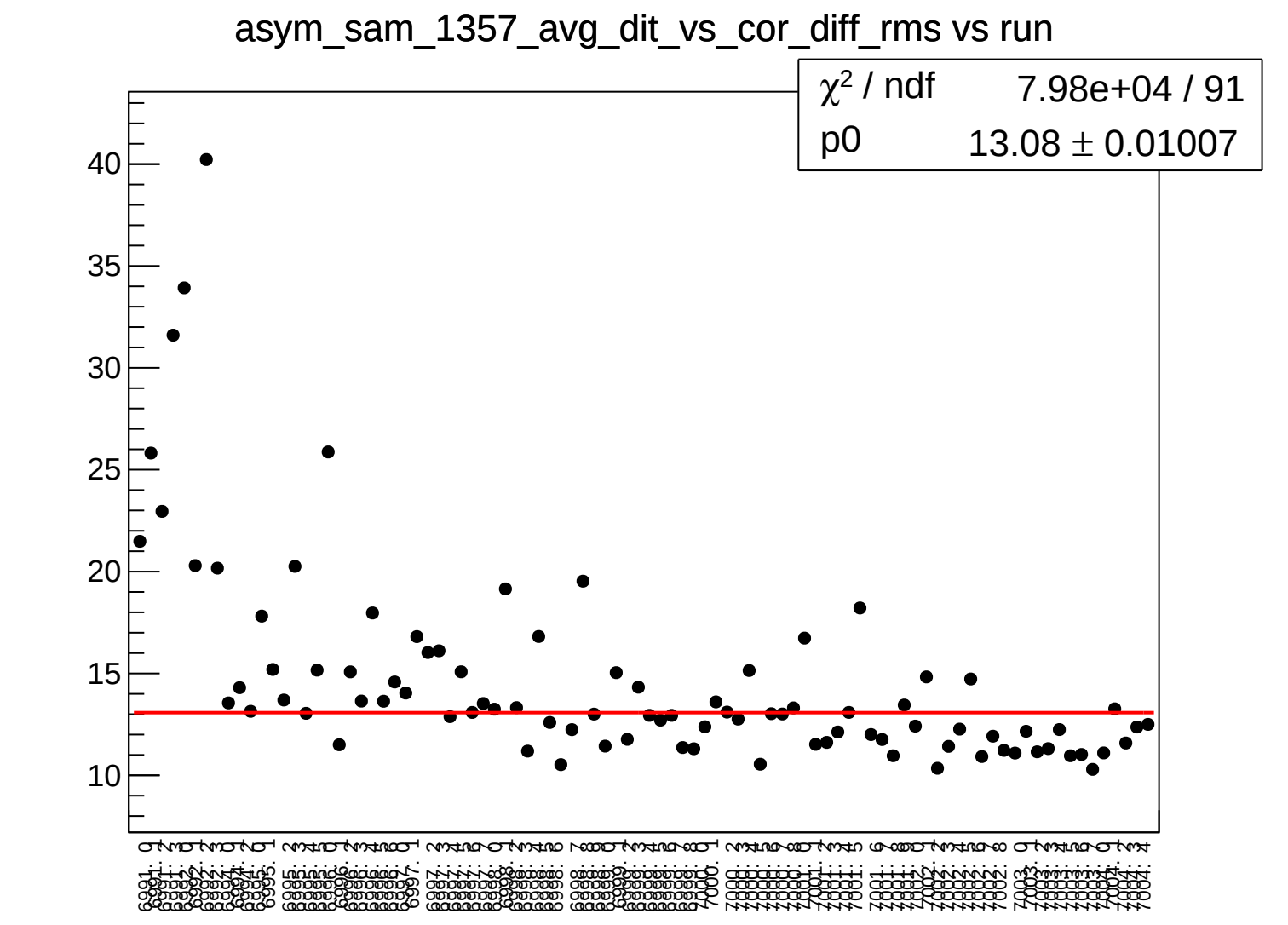

asym_sam_1357_avg_rms vs run
χ² / ndf 5019 / 91
p0 428.2 ± 0.3227
500
480
460
440
420
400
380

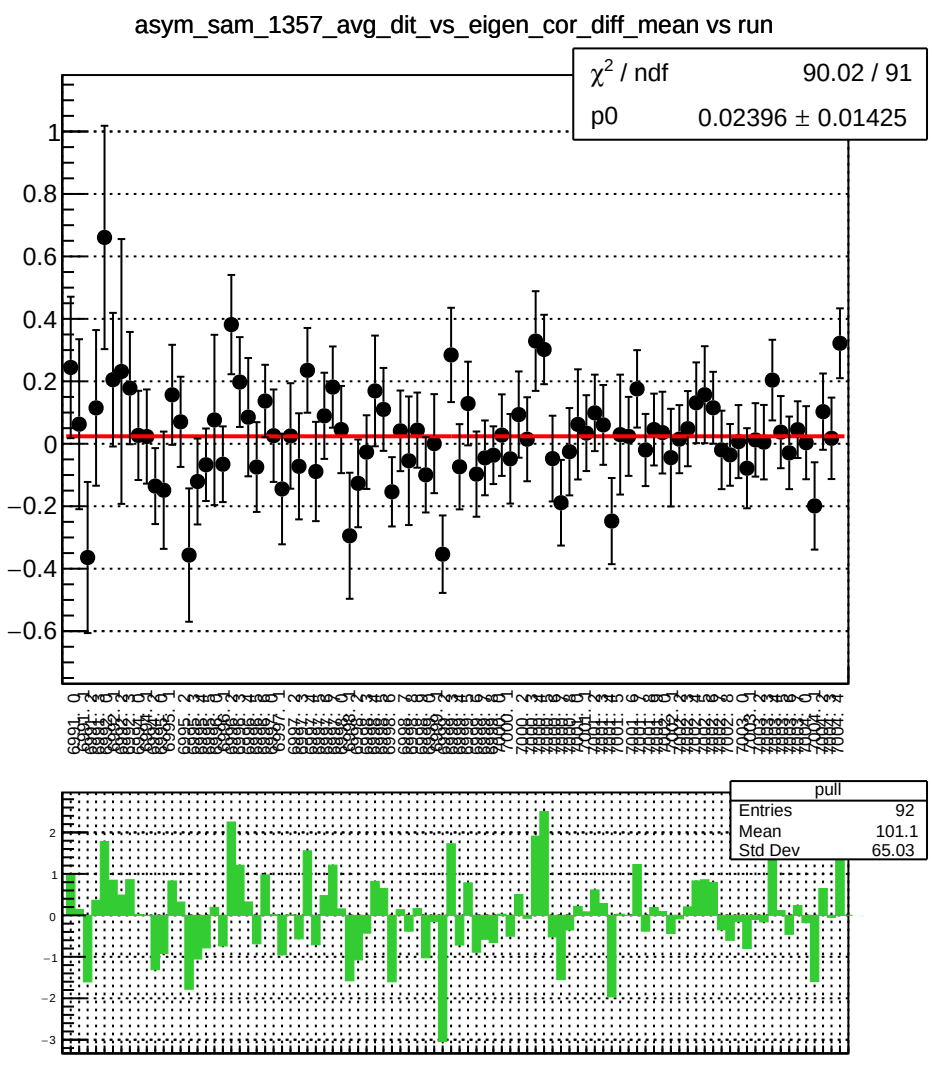

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 109.2 / 91
p0 1.171e−14 ± 1.943e−14
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean 402.1
Std Dev 0
3
2
1
0
−1
−2

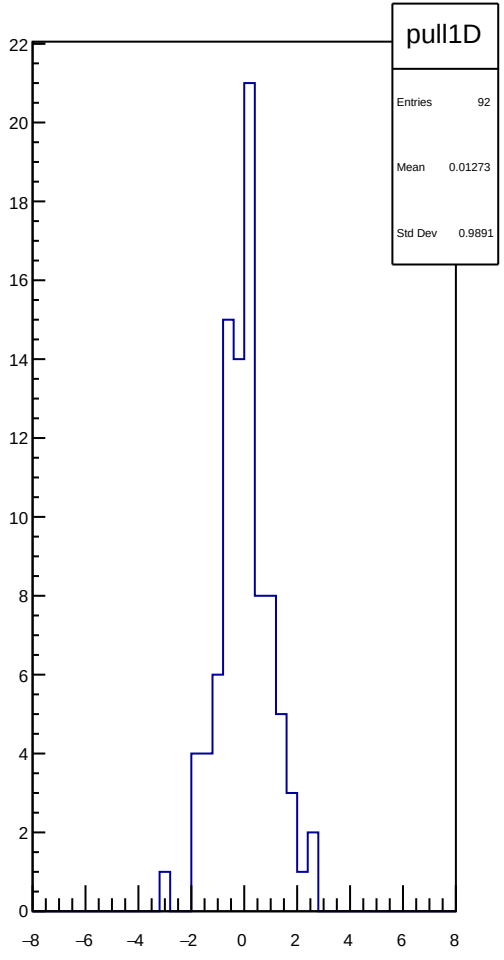

pull1D
Entries 92
Mean −0.003788
Std Dev 1.089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

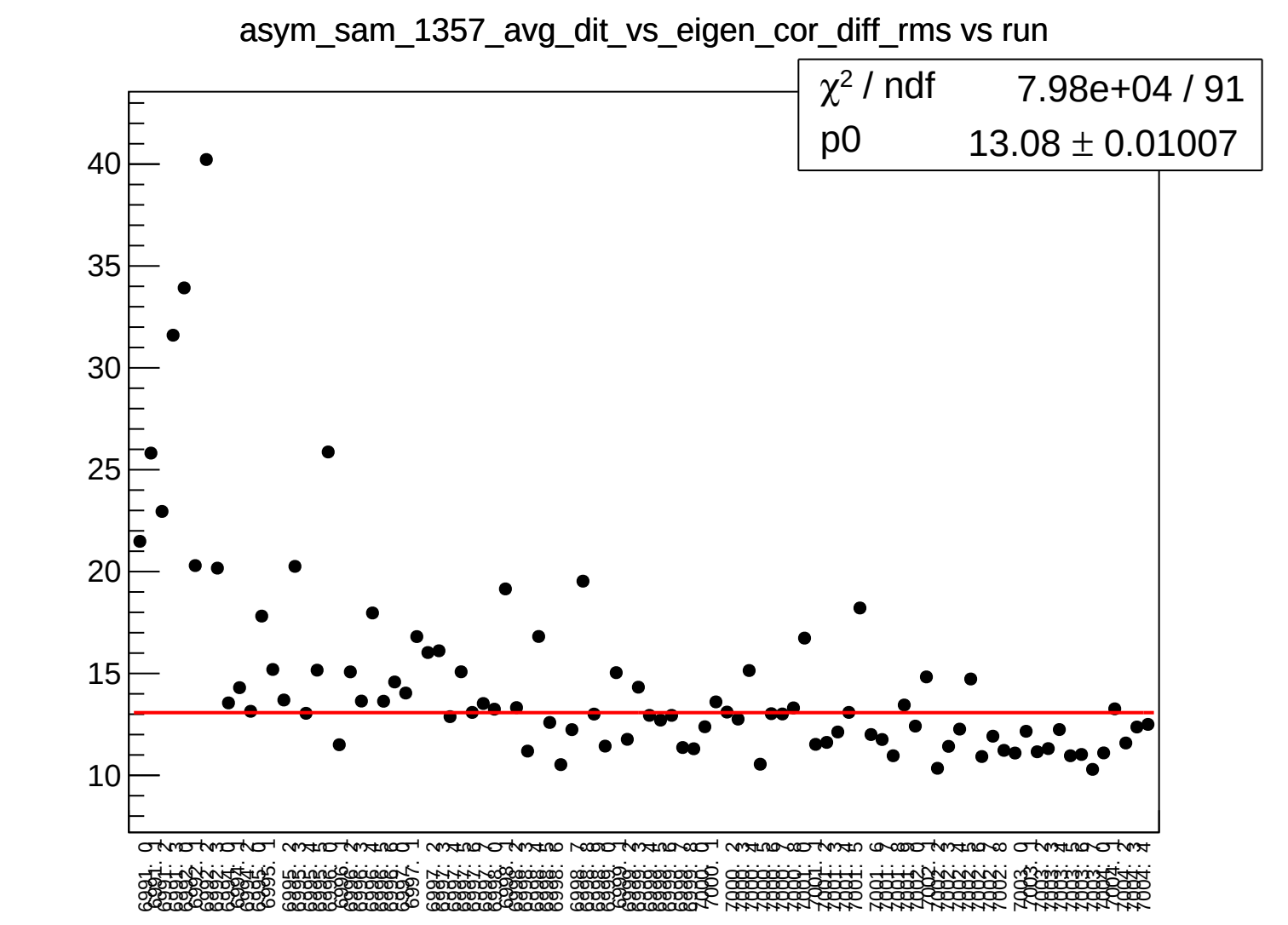

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 91
p0 1.183e−11 ± 1.374e−14
0.05
0.04
0.03
0.02
0.01
0

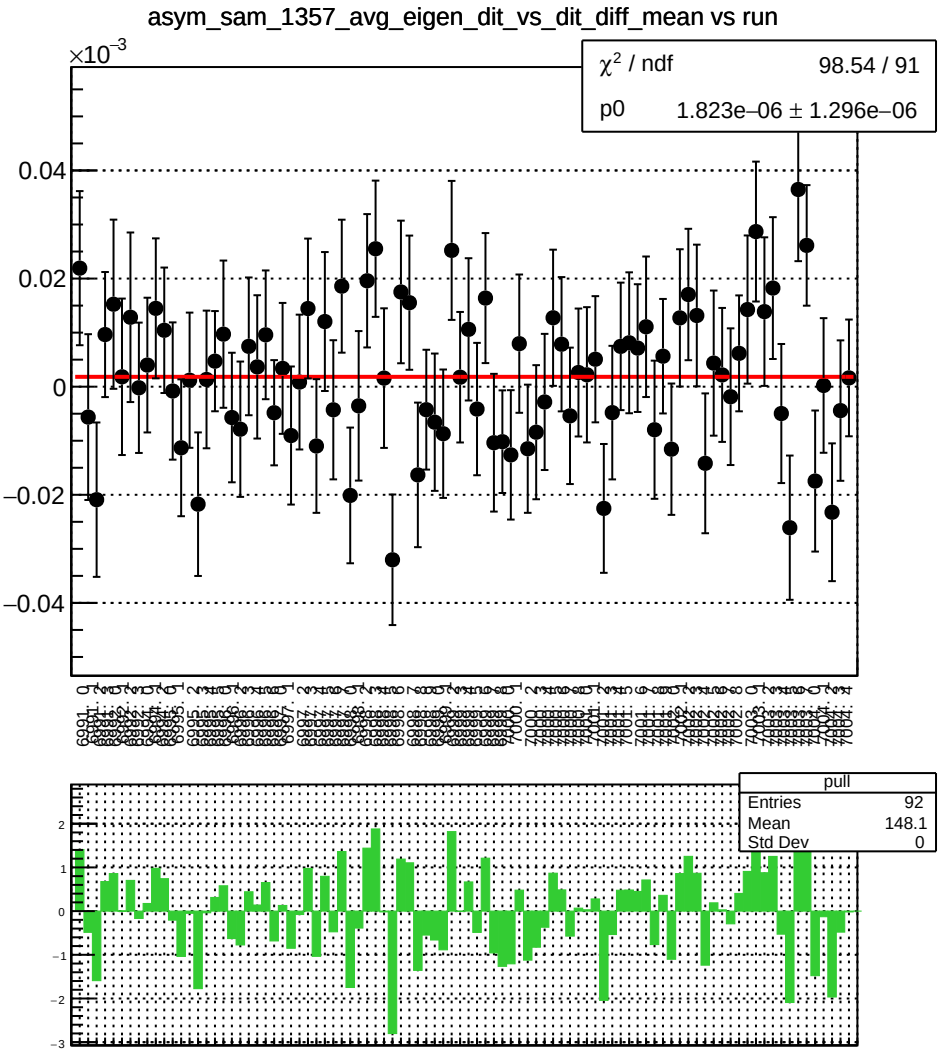

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.02 / 91
p0 0.02396 ± 0.01425
pull
Entries 92
Mean 101.1
Std Dev 65.03
pull1D
Entries 92
Mean 0.01273
Std Dev 0.9891

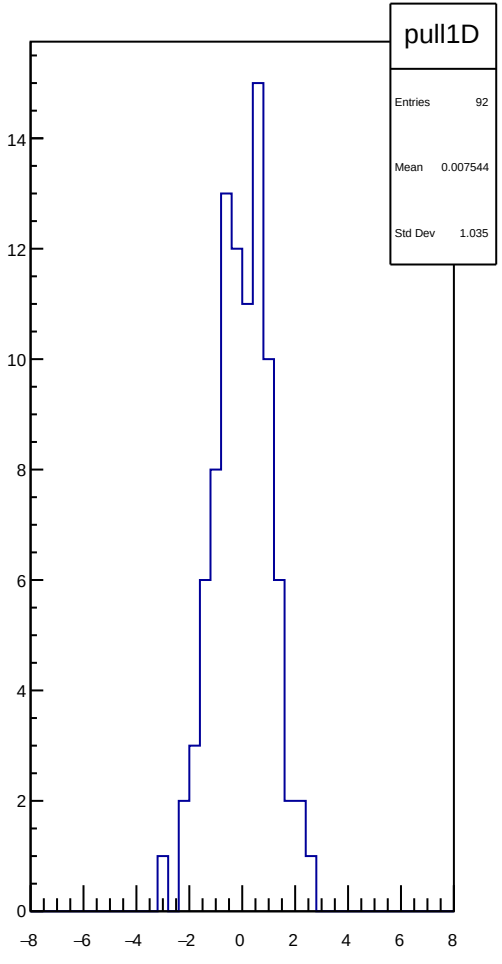

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.98e+04 / 91
p0 13.08 ± 0.01007
40
35
30
25
20
15
10

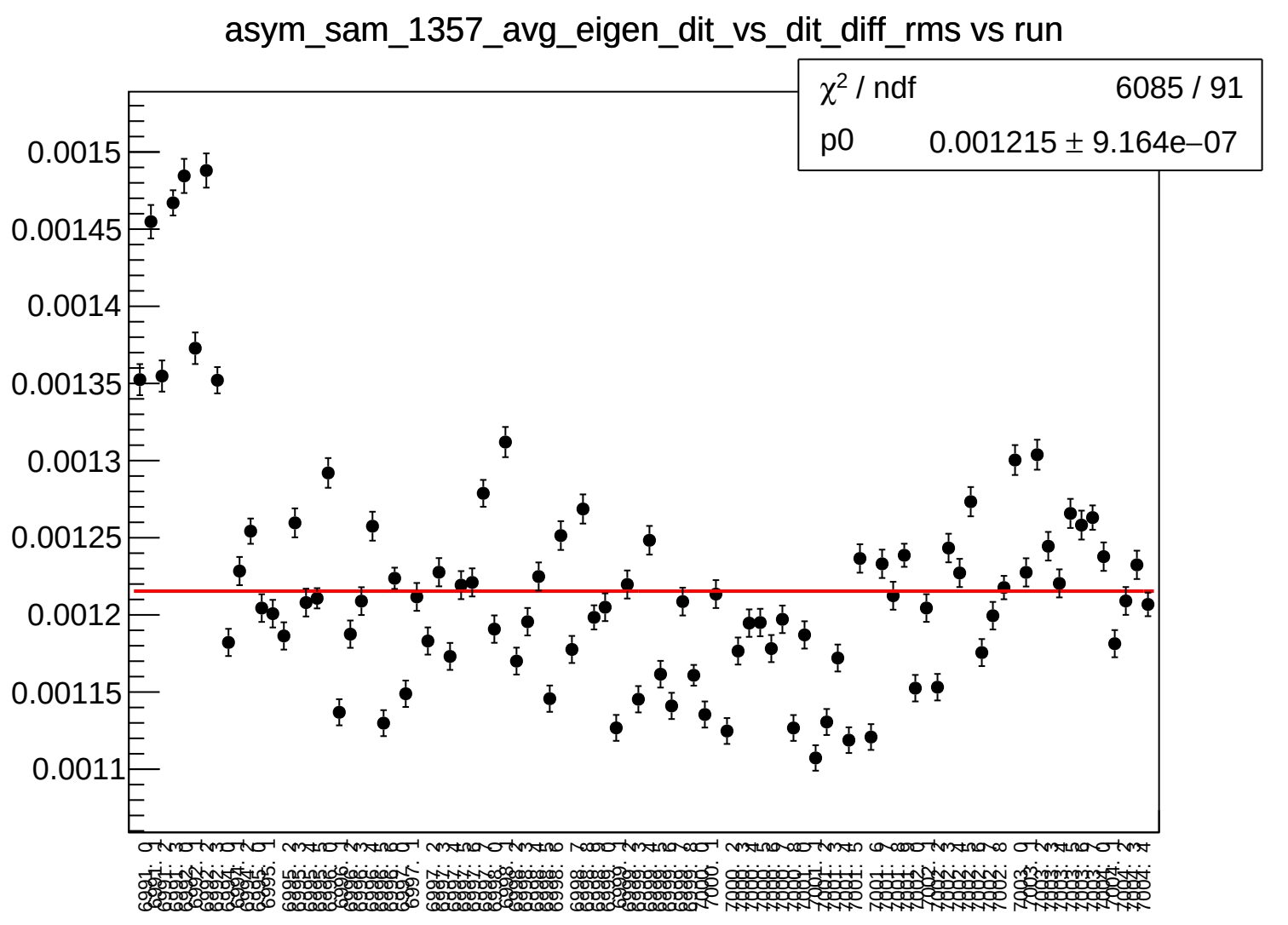

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.02 / 91
p0 0.02396 ± 0.01425
pull
Entries 92
Mean 101.1
Std Dev 65.03

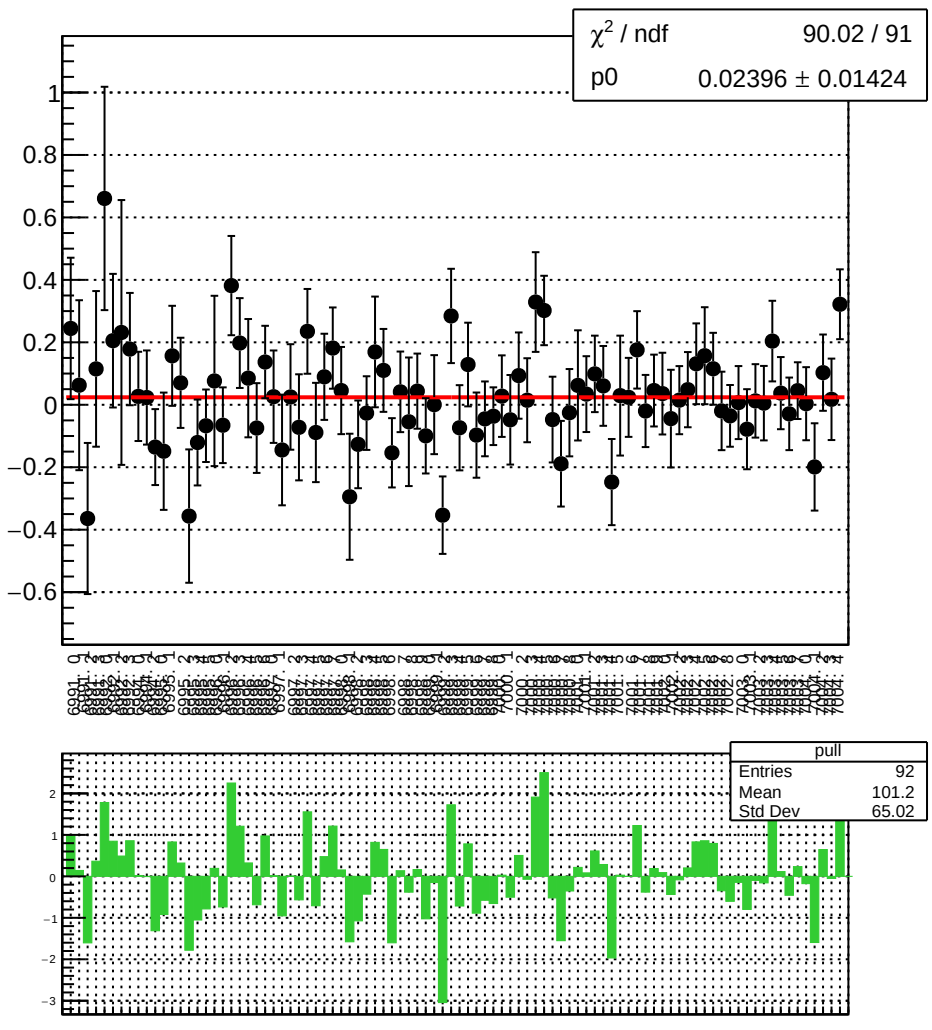

pull1D
Entries 92
Mean 0.01273
Std Dev 0.9891

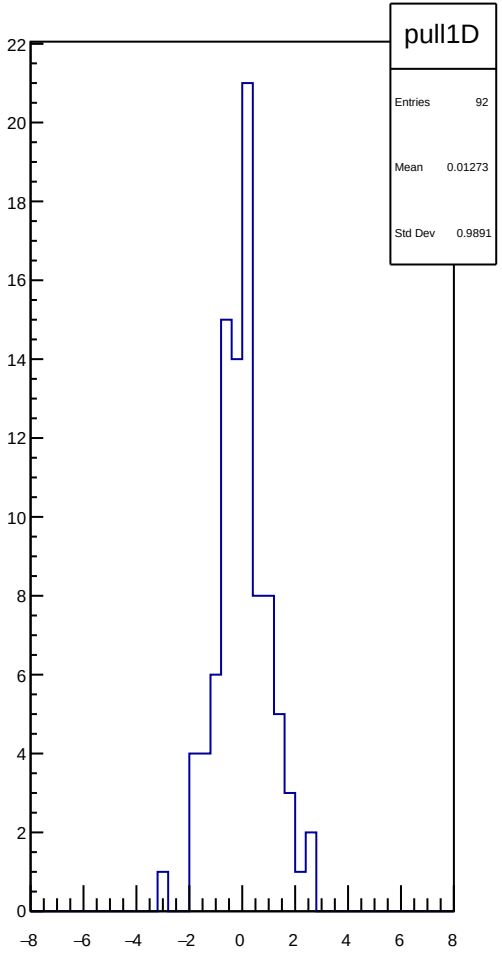

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.98e+04 / 91
p0 13.08 ± 0.01007
40
35
30
25
20
15
10

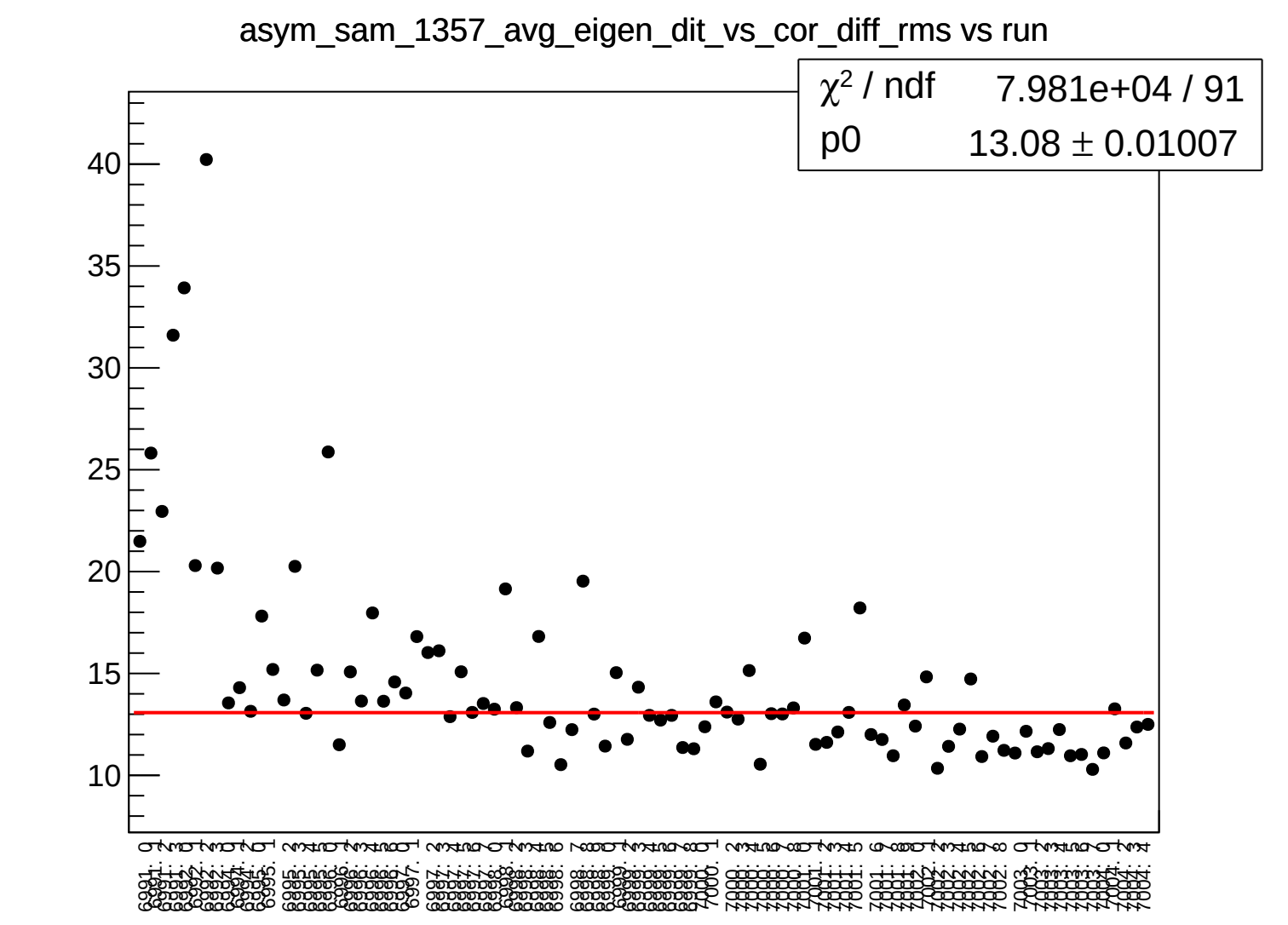

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.54 / 91
p0 1.823e−06 ± 1.296e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean 148.1
Std Dev 0
2
1
0
−1
−2
−3

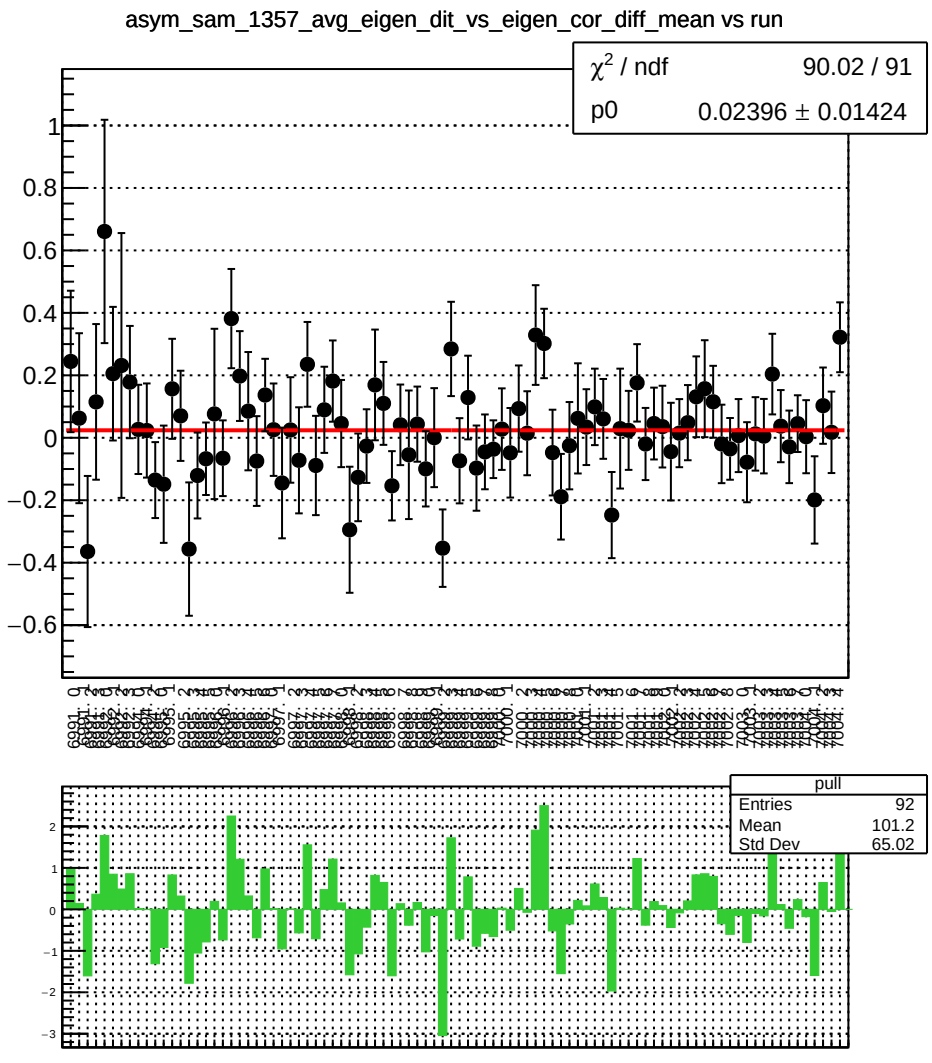

pull1D
Entries 92
Mean 0.007544
Std Dev 1.035
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

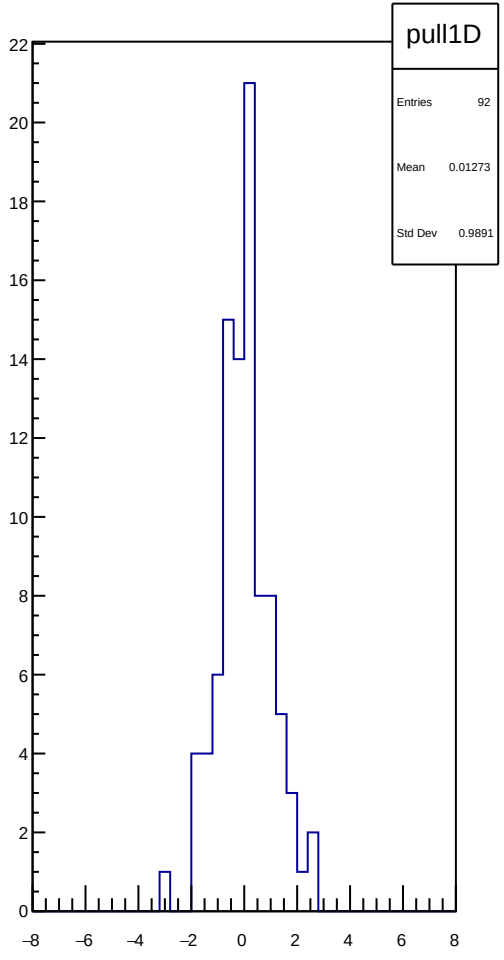

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6085 / 91
p0 0.001215 ± 9.164e−07
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011

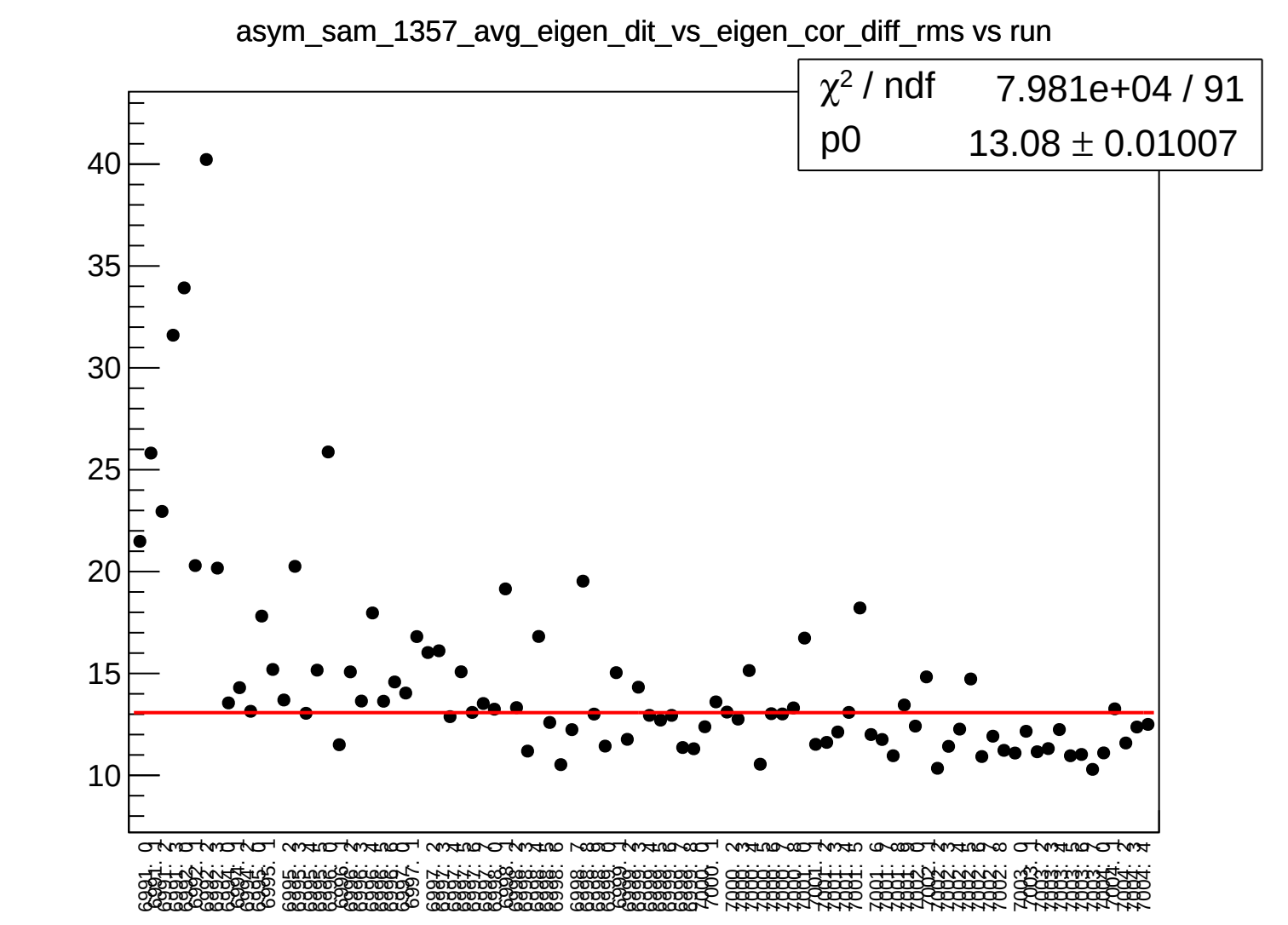

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.02 / 91
p0 0.02396 ± 0.01424
pull
Entries 92
Mean 101.2
Std Dev 65.02

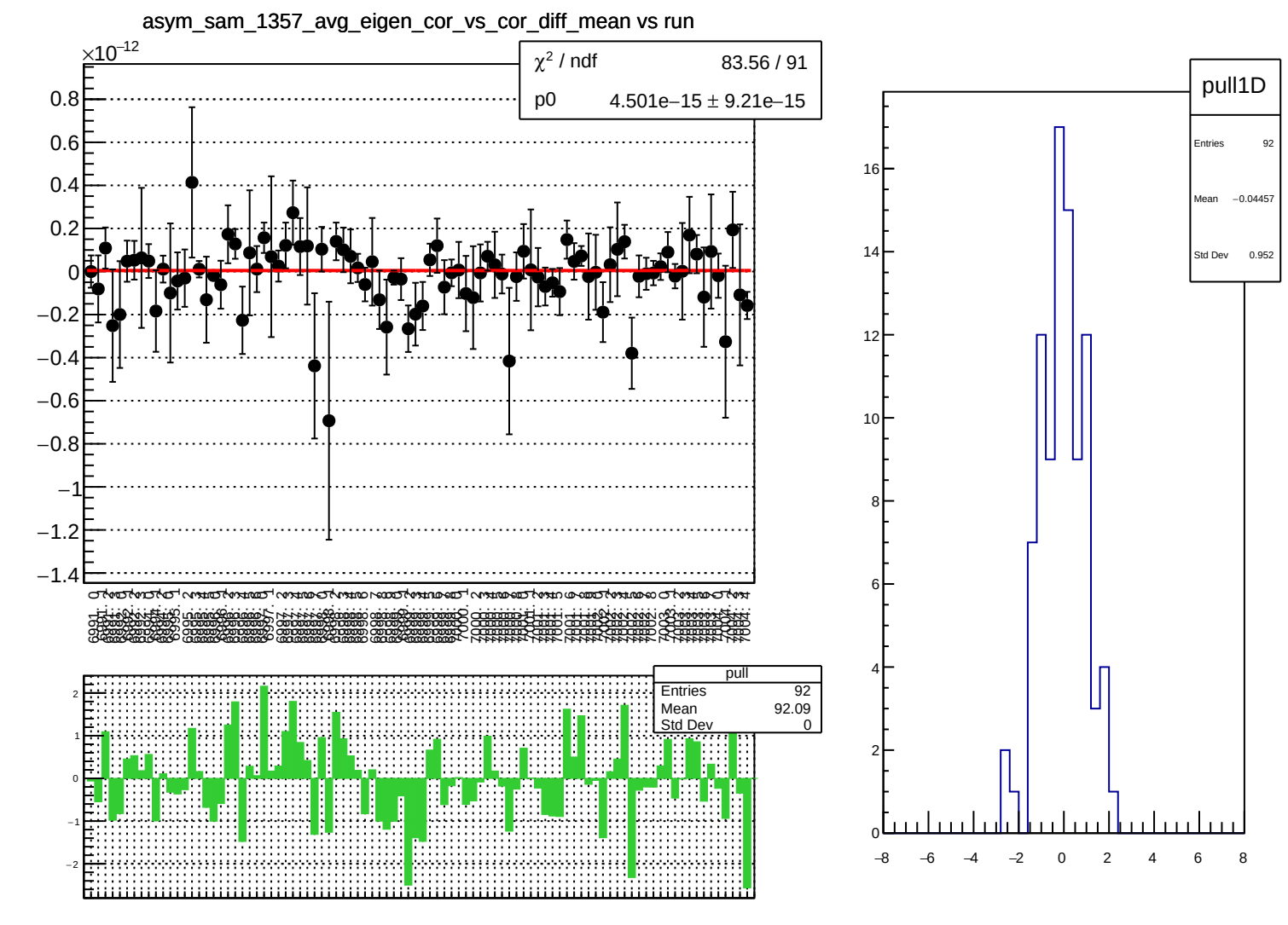

pull1D
Entries 92
Mean 0.01273
Std Dev 0.9891

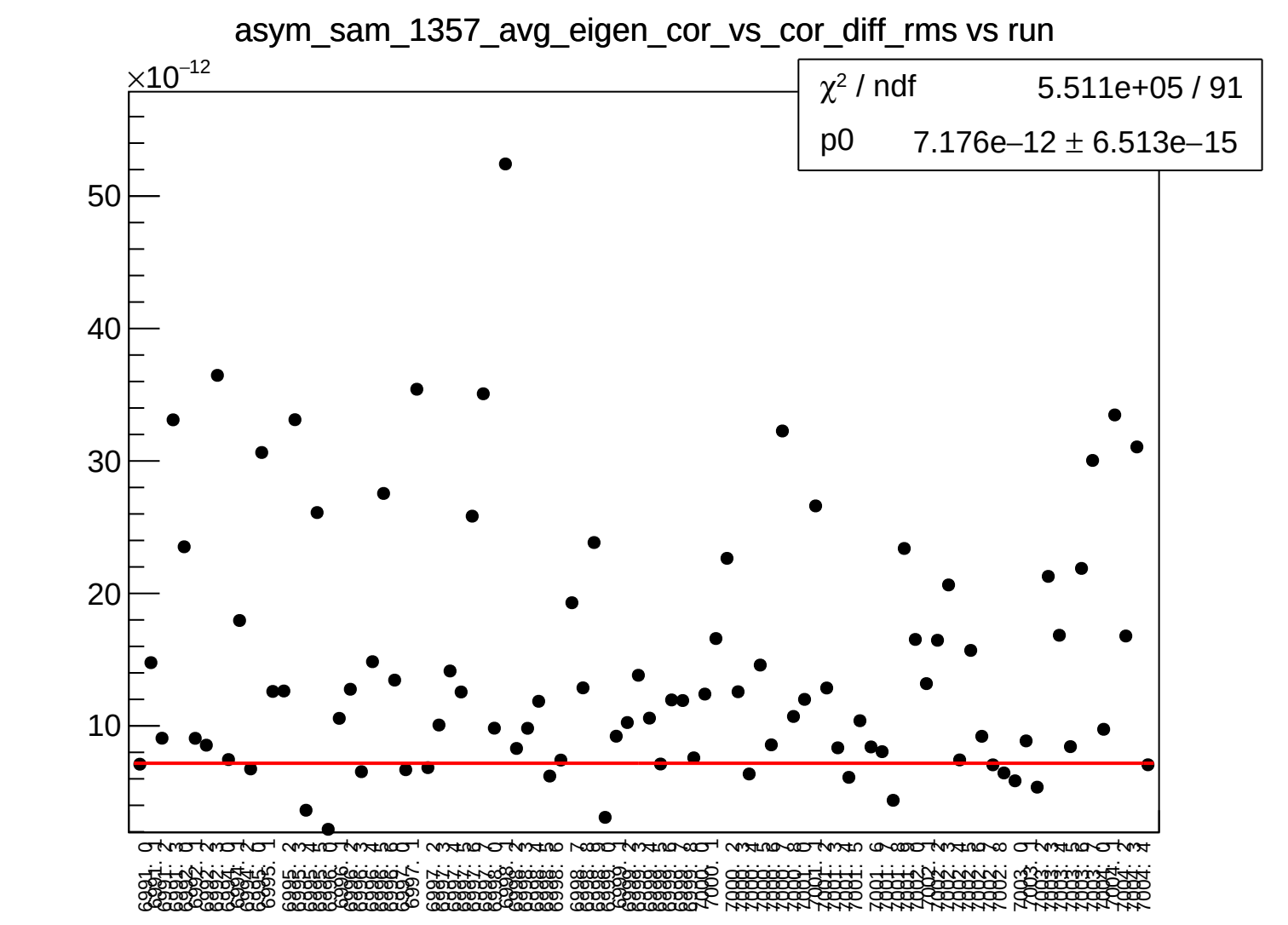

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.981e+04 / 91
p0 13.08 ± 0.01007
40
35
30
25
20
15
10

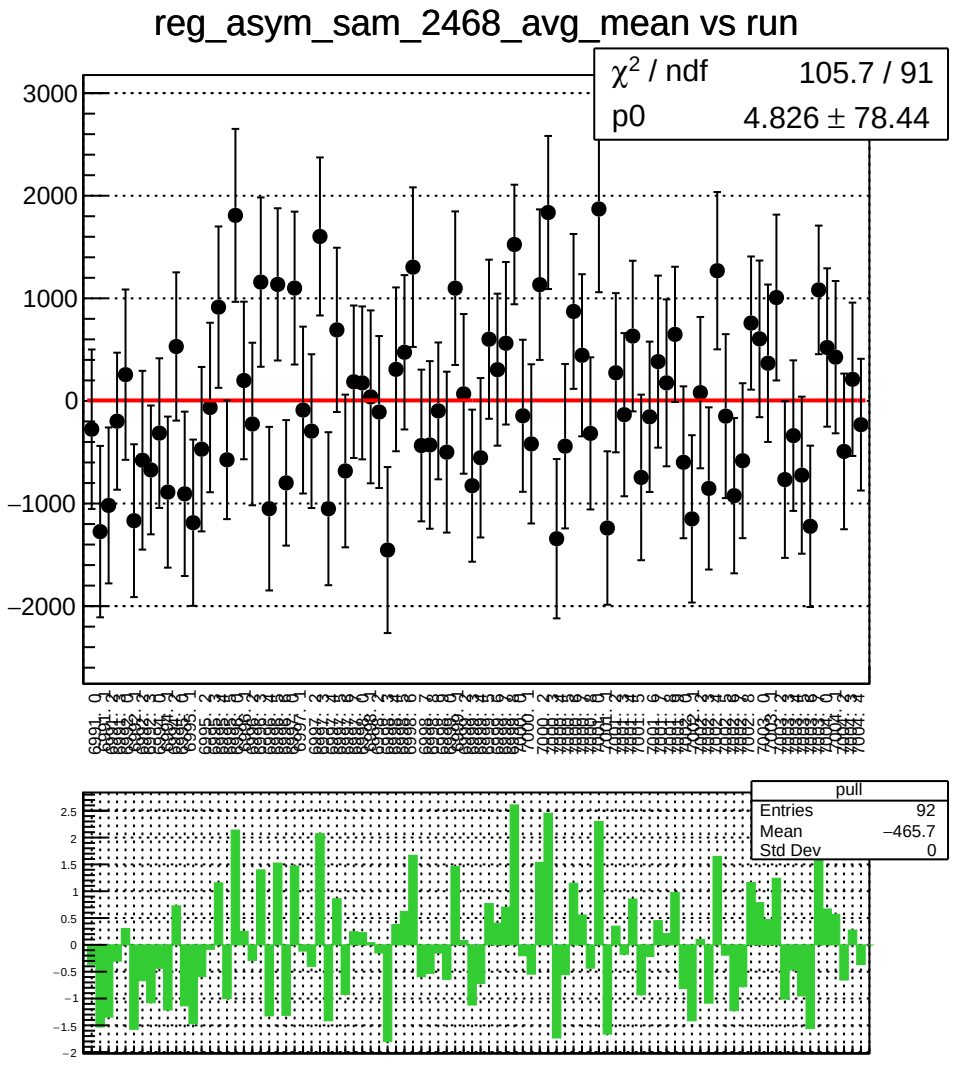

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.02 / 91
p0 0.02396 ± 0.01424
pull
Entries 92
Mean 101.2
Std Dev 65.02

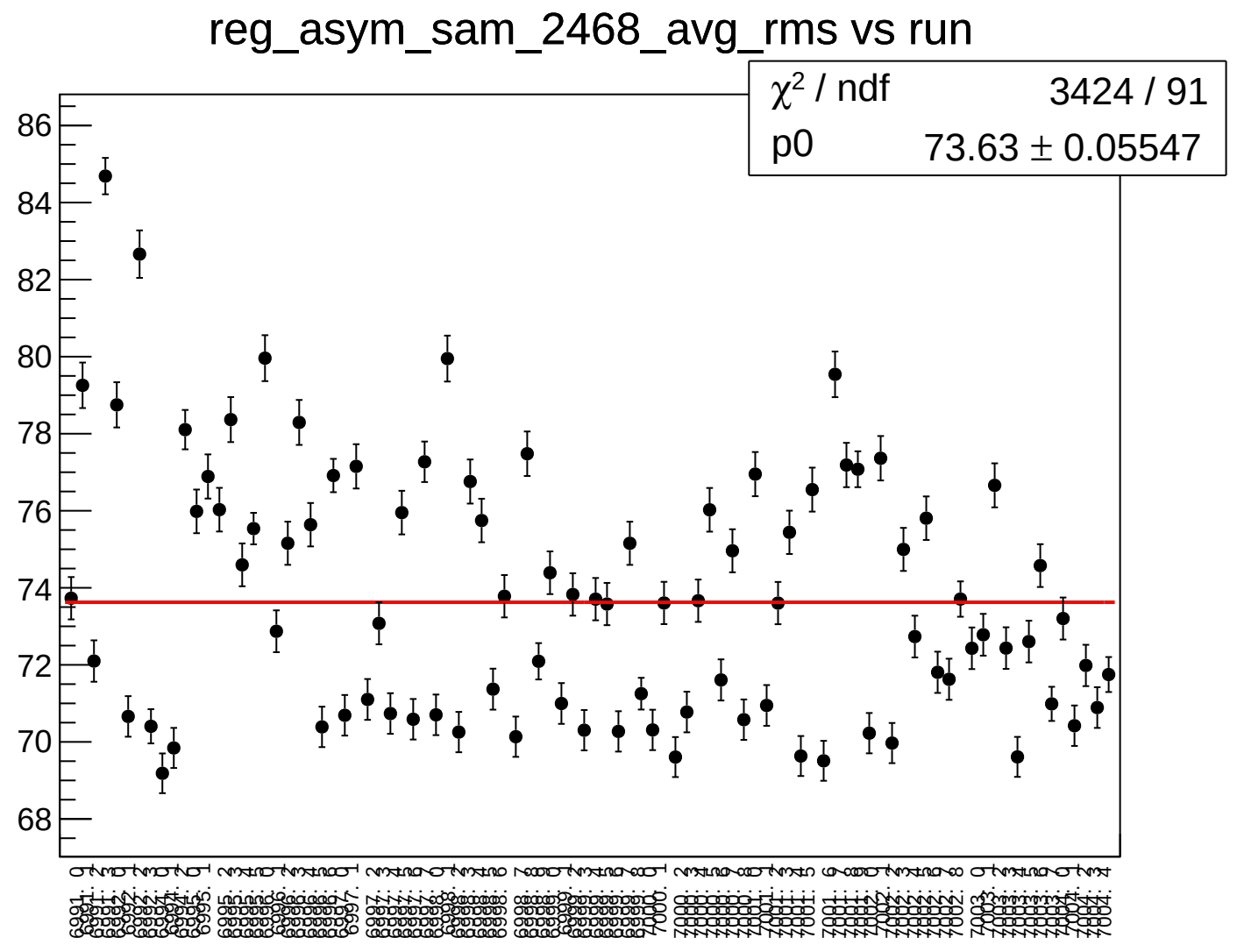

pull1D
Entries 92
Mean 0.01273
Std Dev 0.9891

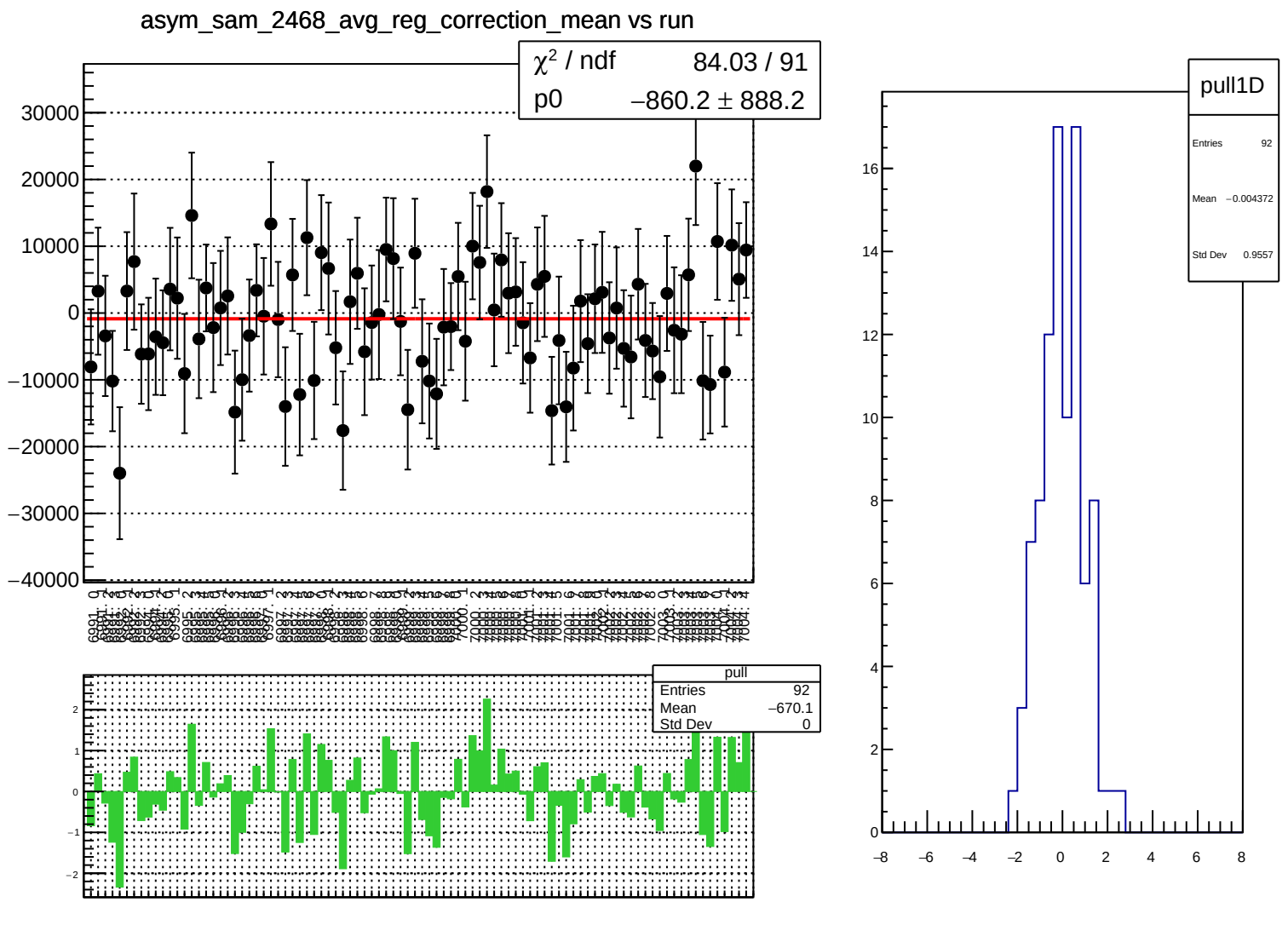

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.981e+04 / 91
p0 13.08 ± 0.01007
40
35
30
25
20
15
10

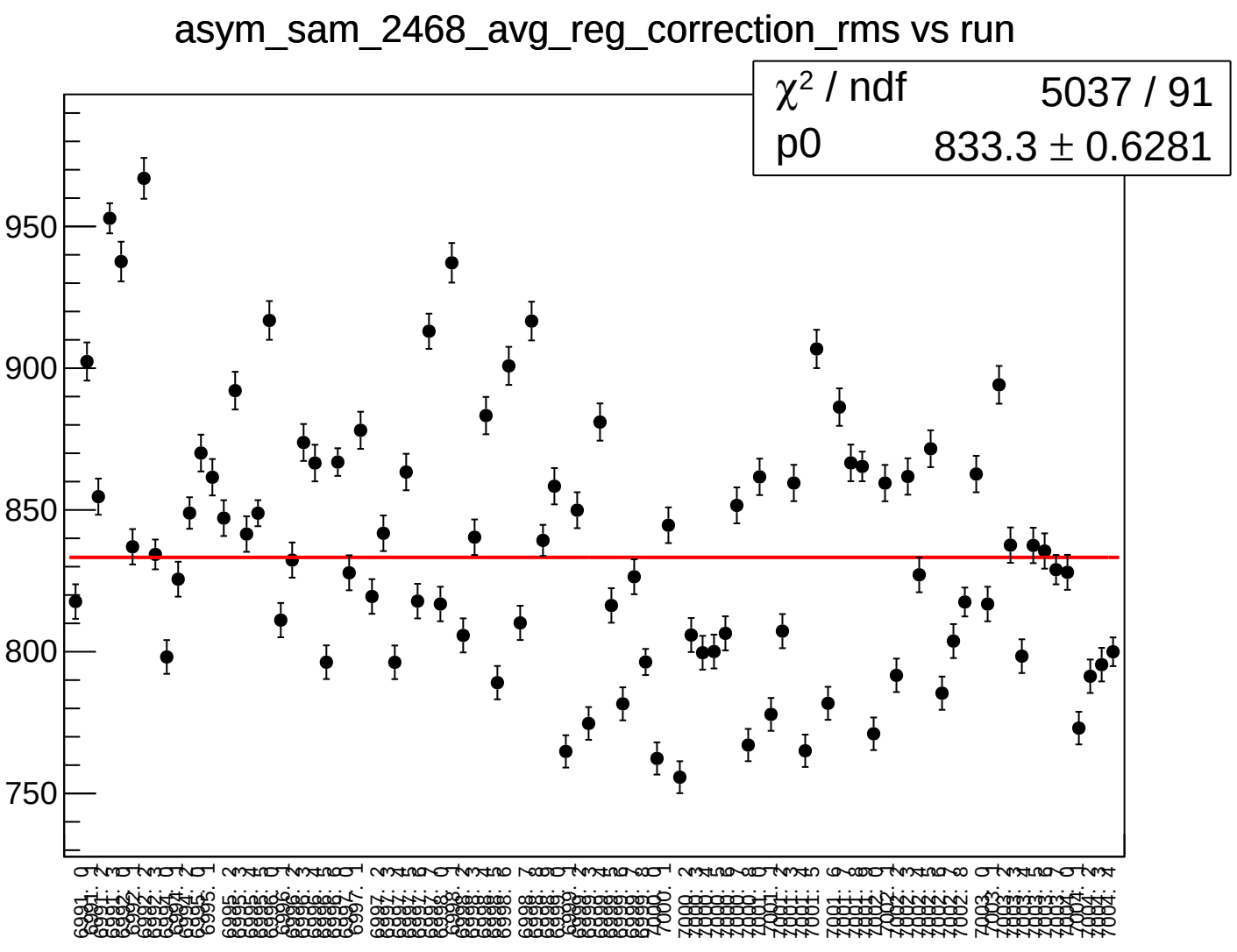

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.56 / 91
p0 4.501e−15 ± 9.21e−15
pull
Entries 92
Mean 92.09
Std Dev 0
pull1D
Entries 92
Mean −0.04457
Std Dev 0.952

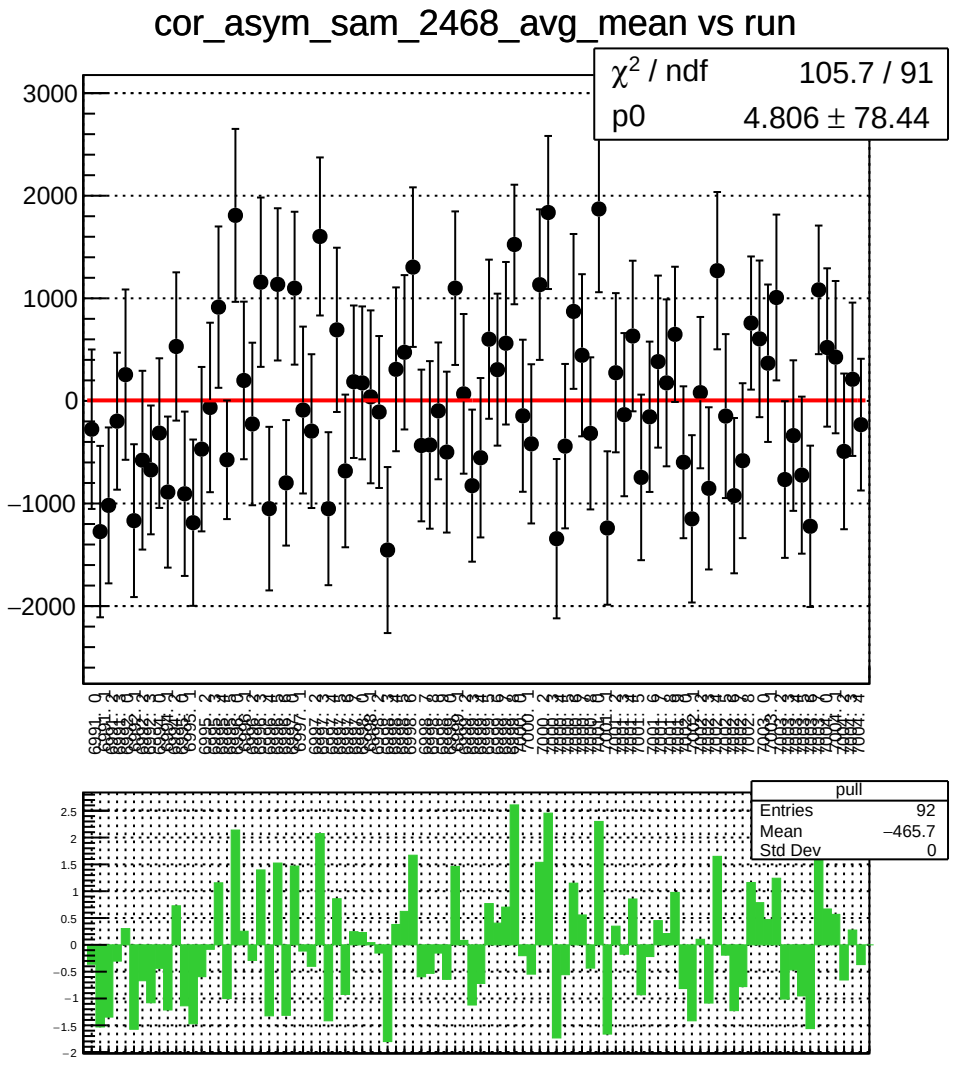

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.511e+05 / 91
p0 7.176e−12 ± 6.513e−15
50
40
30
20
10

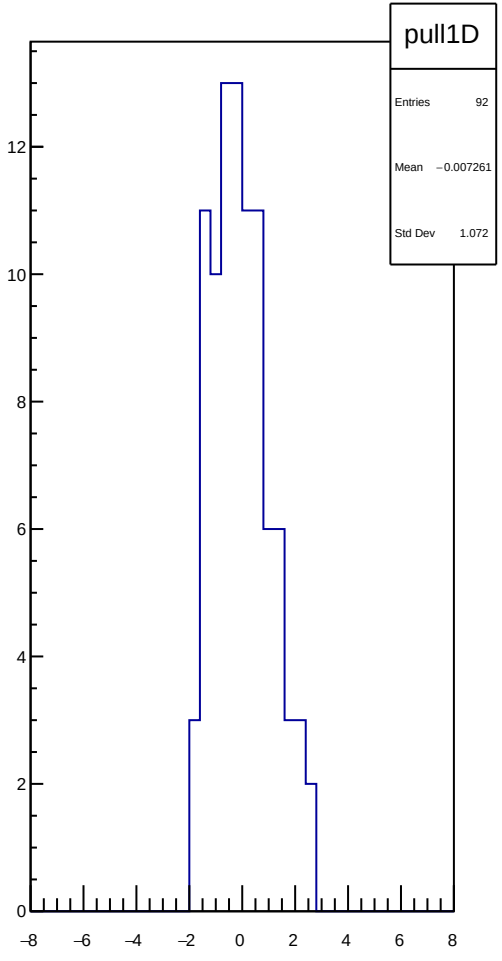

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 105.7 / 91
p0 4.826 ± 78.44
pull
Entries 92
Mean −465.7
Std Dev 0
pull1D
Entries 92
Mean −0.007259
Std Dev 1.072

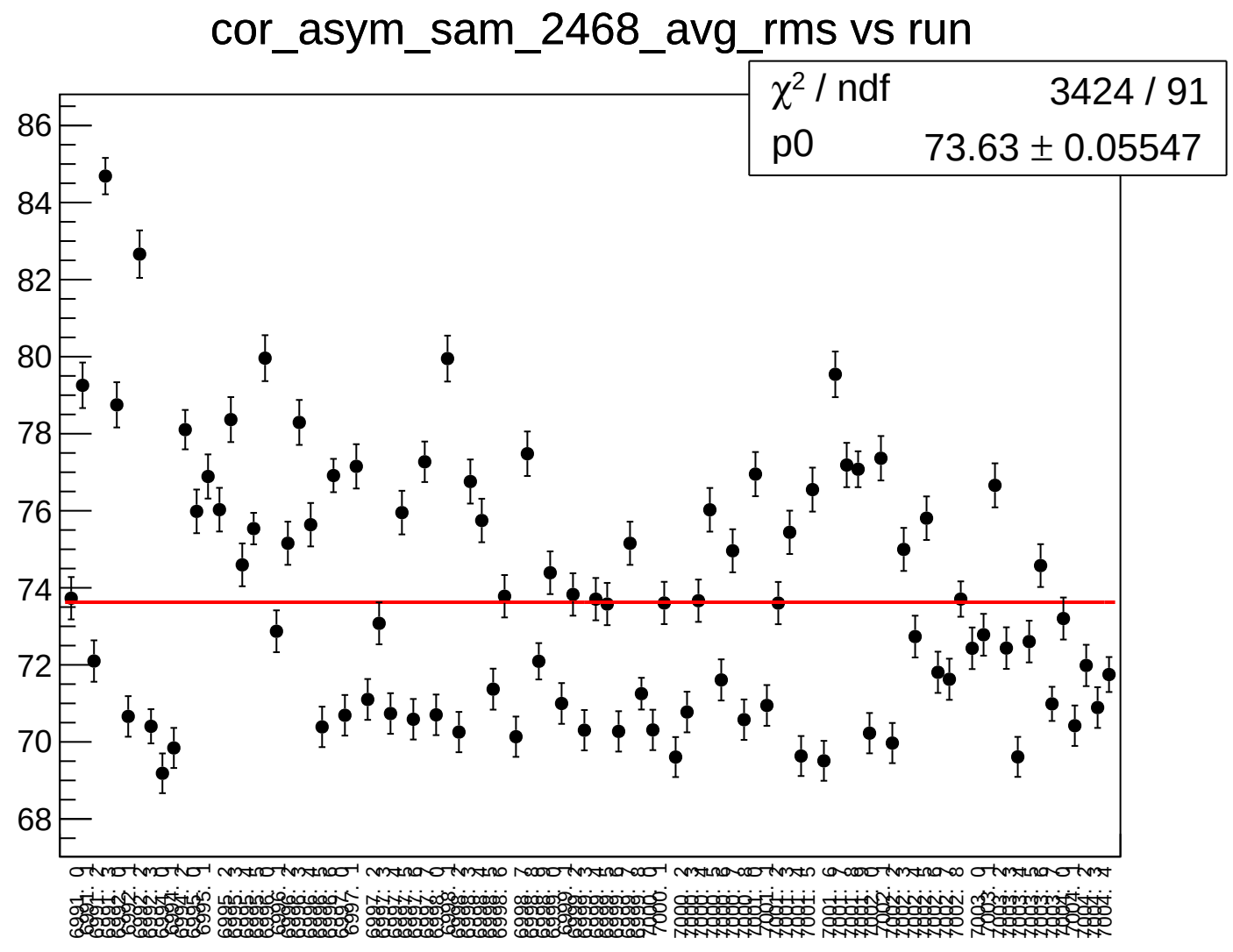

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3424 / 91
p0 73.63 ± 0.05547
86
84
82
80
78
76
74
72
70
68

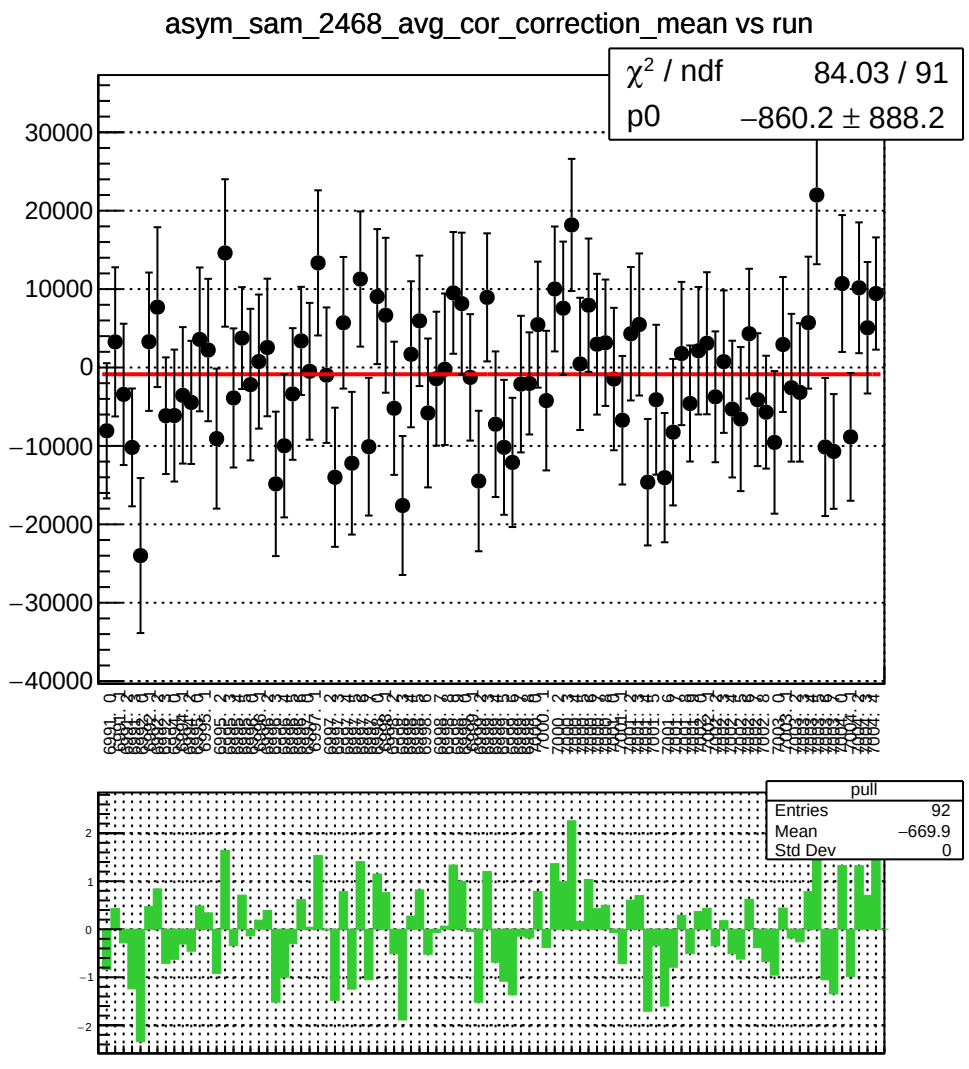

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 84.03 / 91
p0 −860.2 ± 888.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −670.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004372
Std Dev 0.9557
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

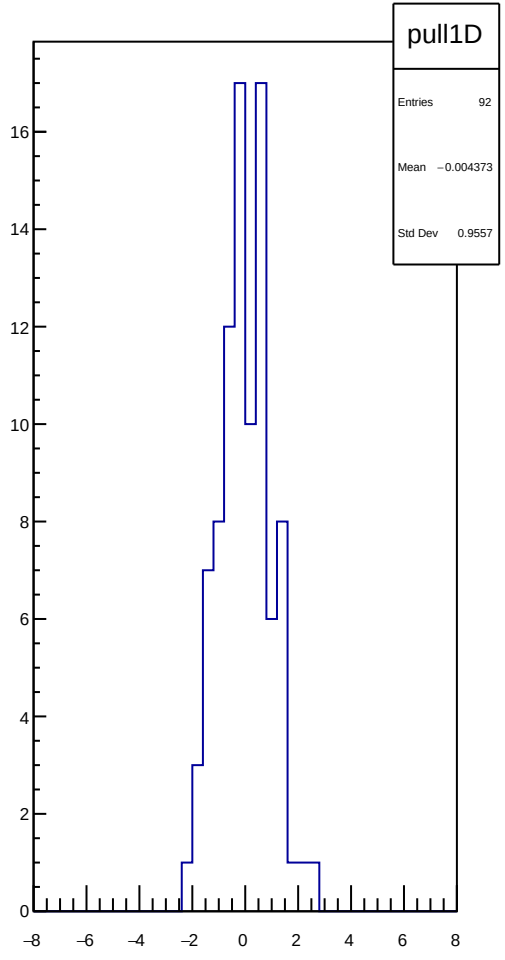

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 5037 / 91
p0 833.3 ± 0.6281
950
900
850
800
750

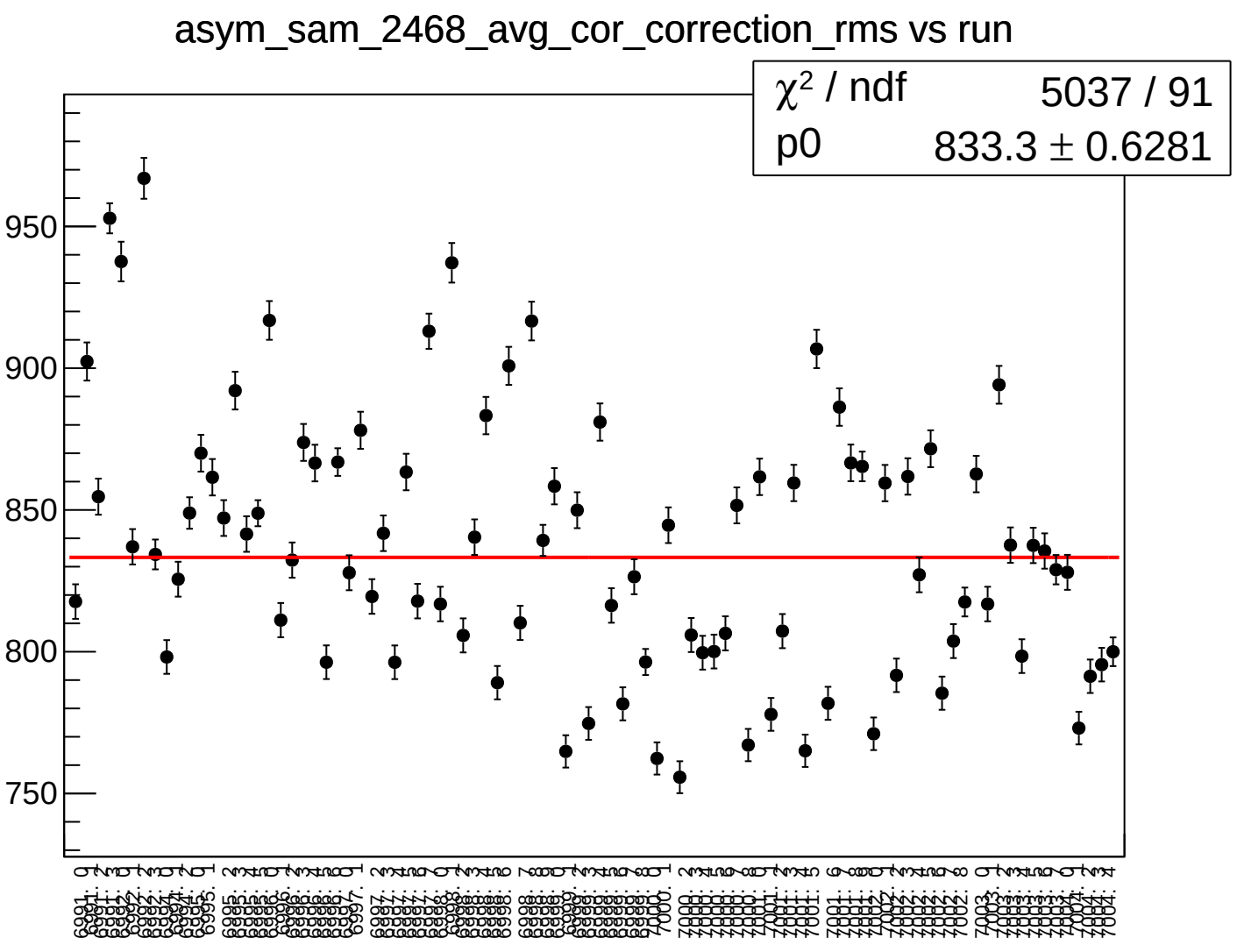

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 105.7 / 91
p0 4.806 ± 78.44
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −465.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

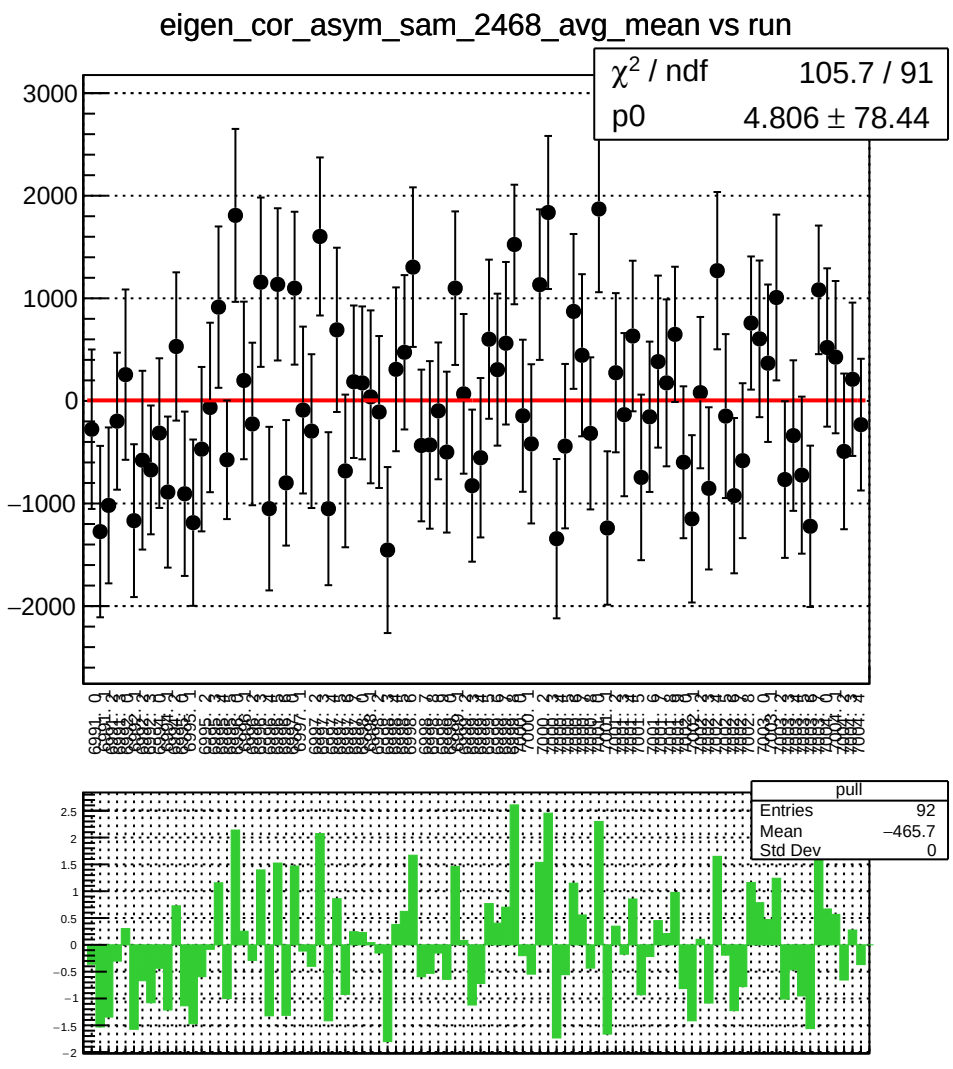

pull1D
Entries 92
Mean −0.007261
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

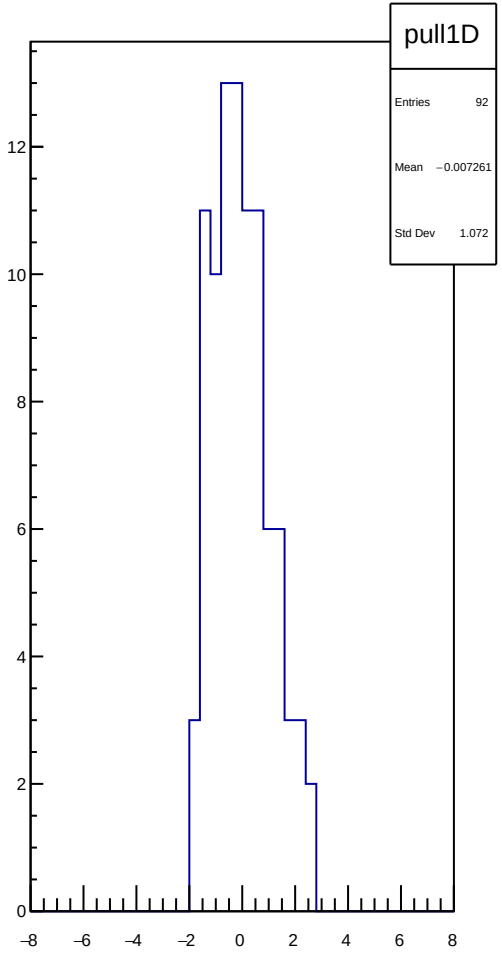

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3424 / 91
p0 73.63 ± 0.05547
86
84
82
80
78
76
74
72
70
68

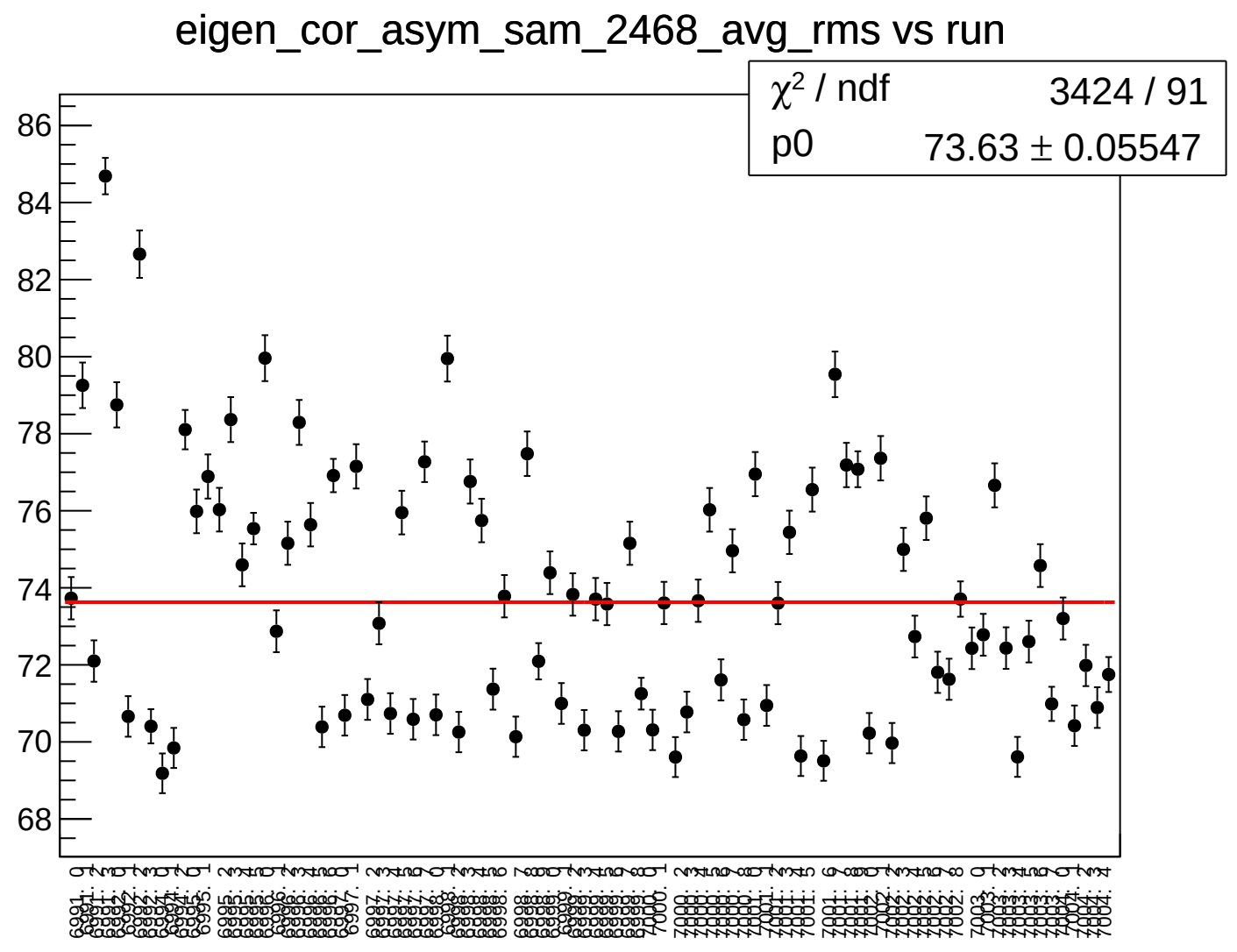

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 84.03 / 91
p0 −860.2 ± 888.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −669.9
Std Dev 0
2
1
0
−1
−2

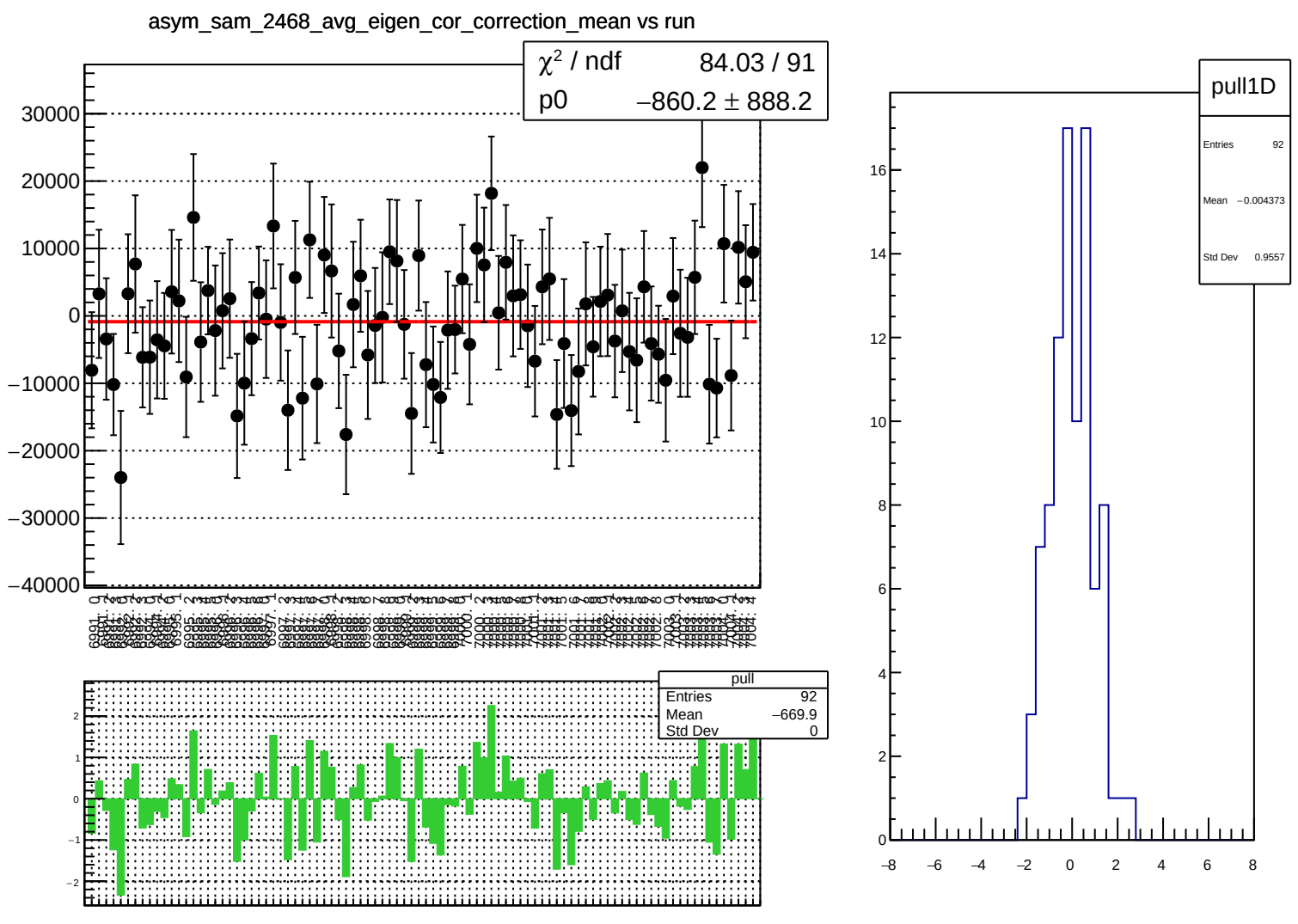

pull1D
Entries 92
Mean −0.004373
Std Dev 0.9557
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

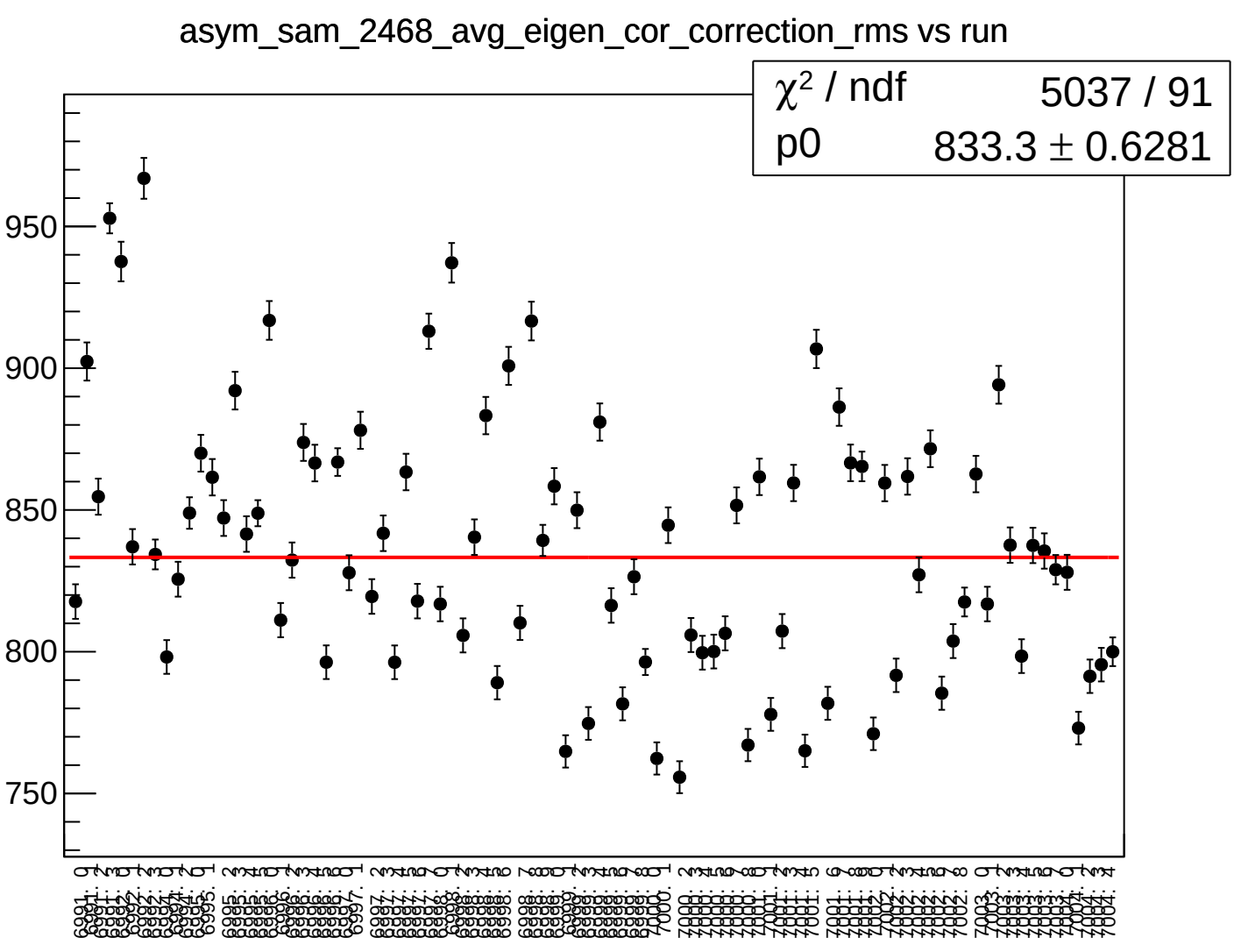

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 5037 / 91
p0 833.3 ± 0.6281
950
900
850
800
750

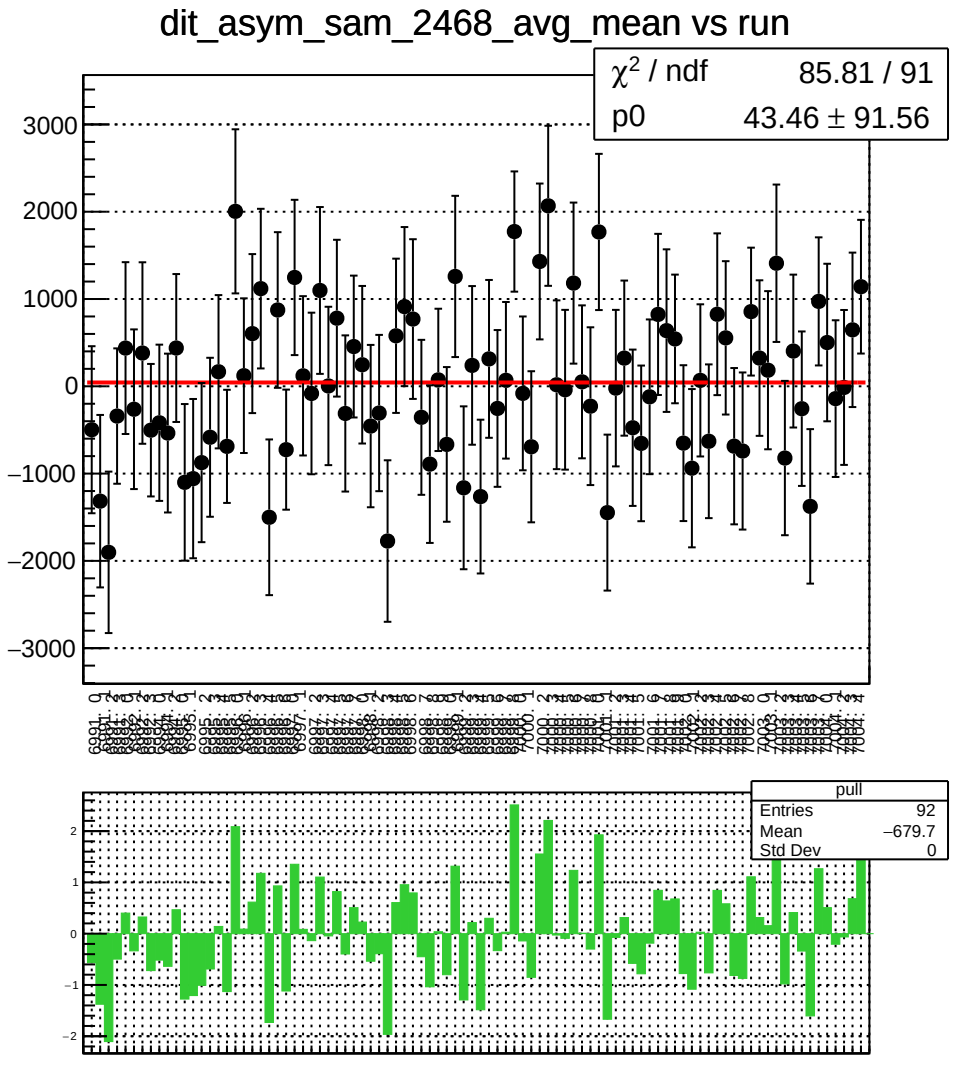

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 105.7 / 91
p0 4.806 ± 78.44
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −465.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

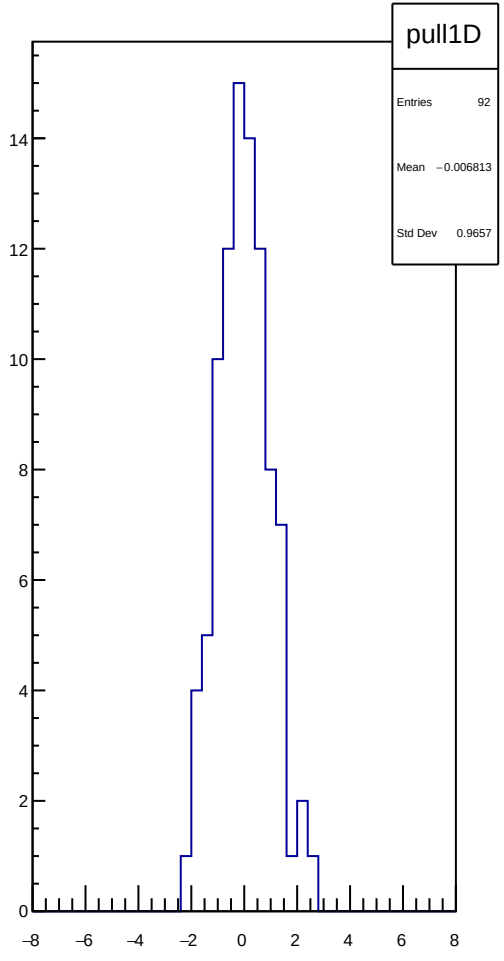

pull1D
Entries 92
Mean −0.007261
Std Dev 1.072
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

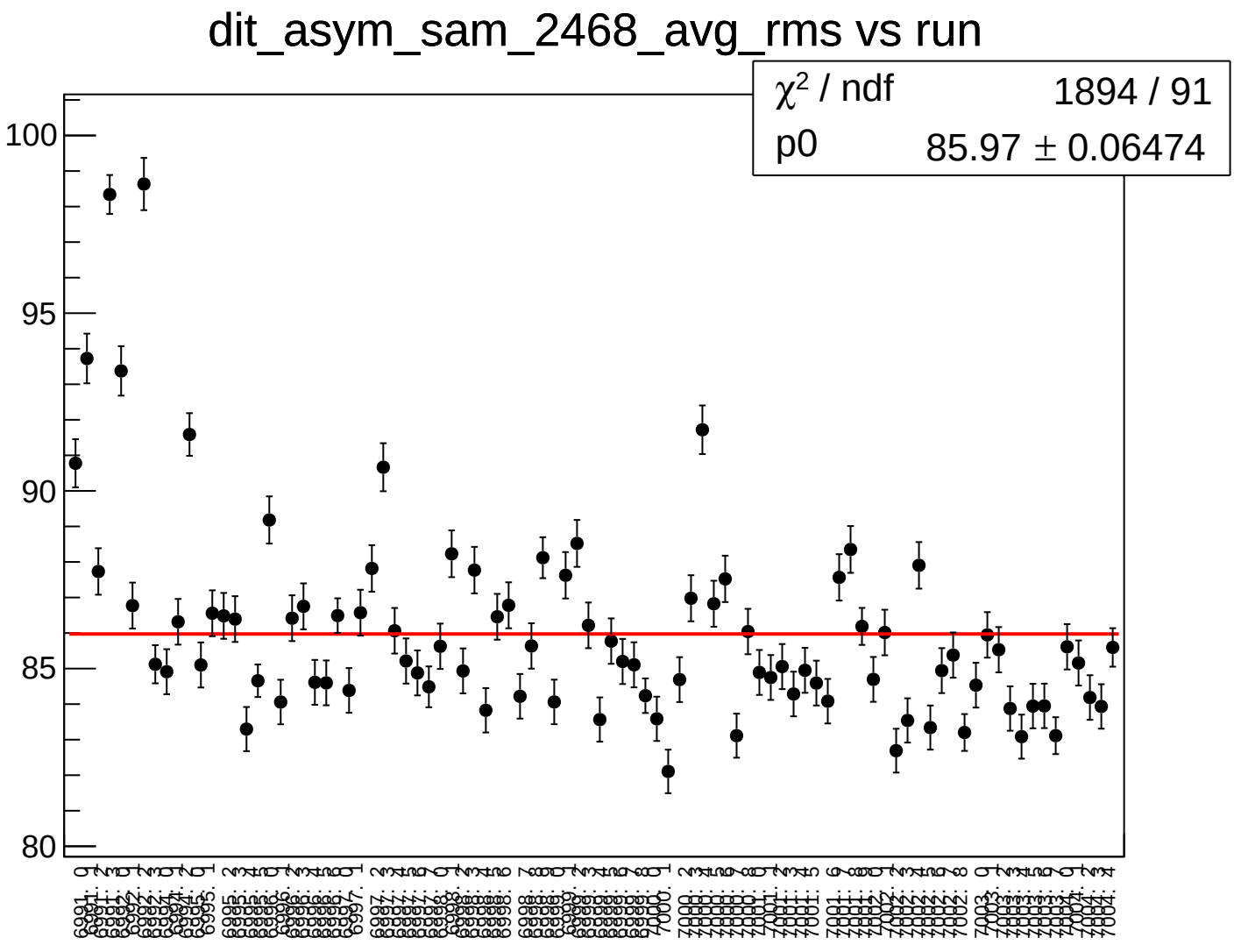

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 3424 / 91
p0 73.63 ± 0.05547
86
84
82
80
78
76
74
72
70
68

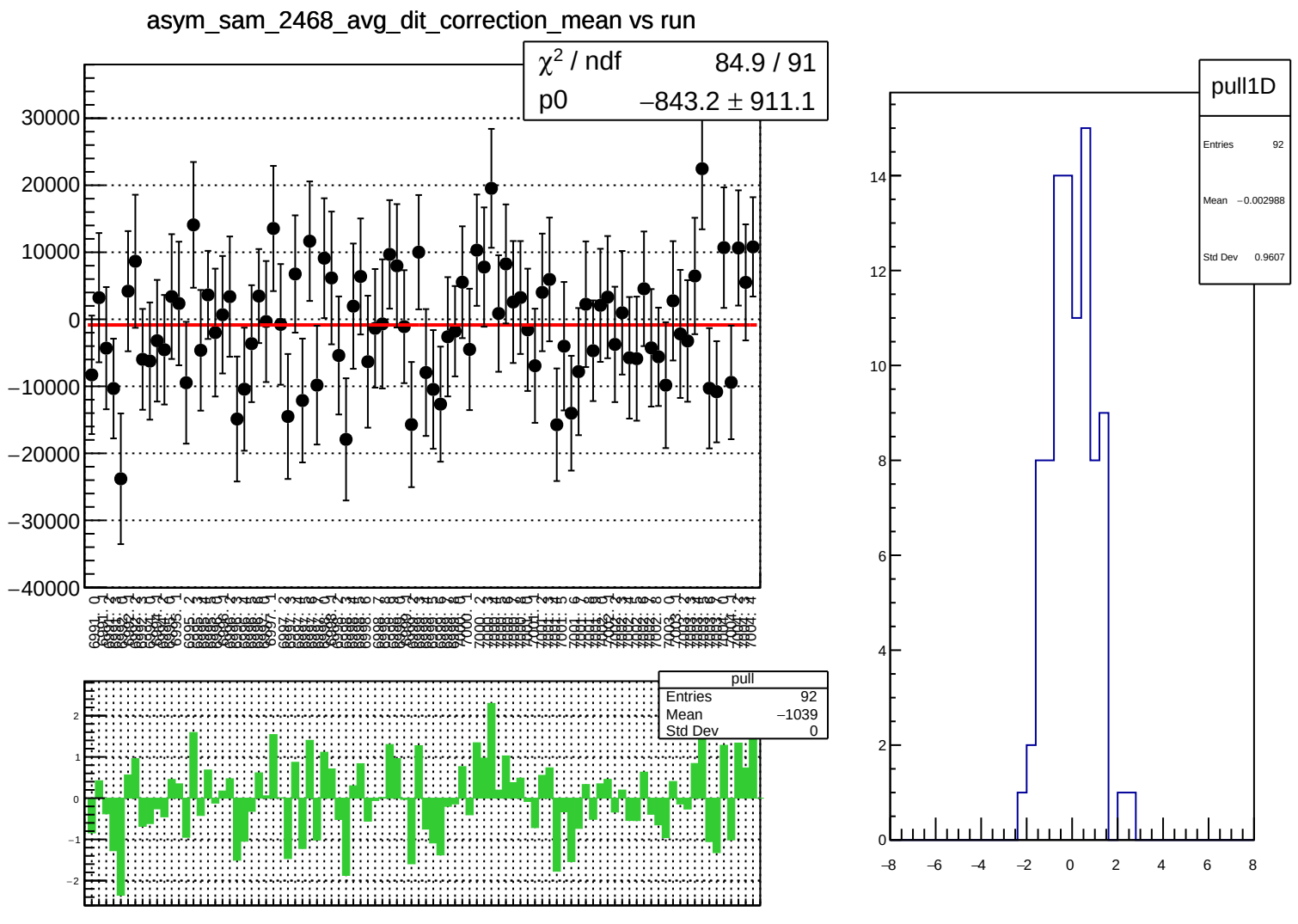

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.03 / 91
p0 −860.2 ± 888.2
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −669.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004373
Std Dev 0.9557
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

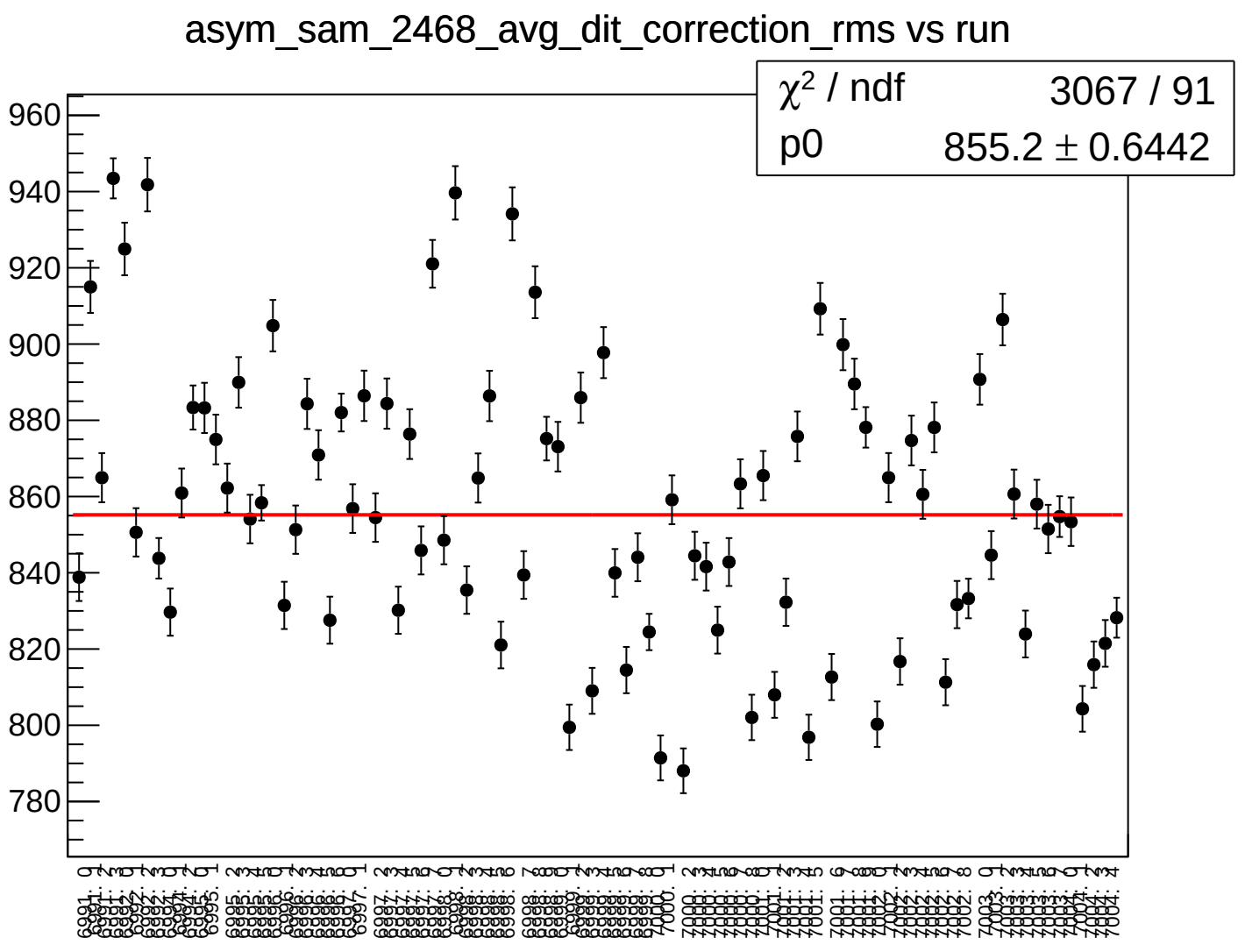

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 5037 / 91
p0 833.3 ± 0.6281
950
900
850
800
750

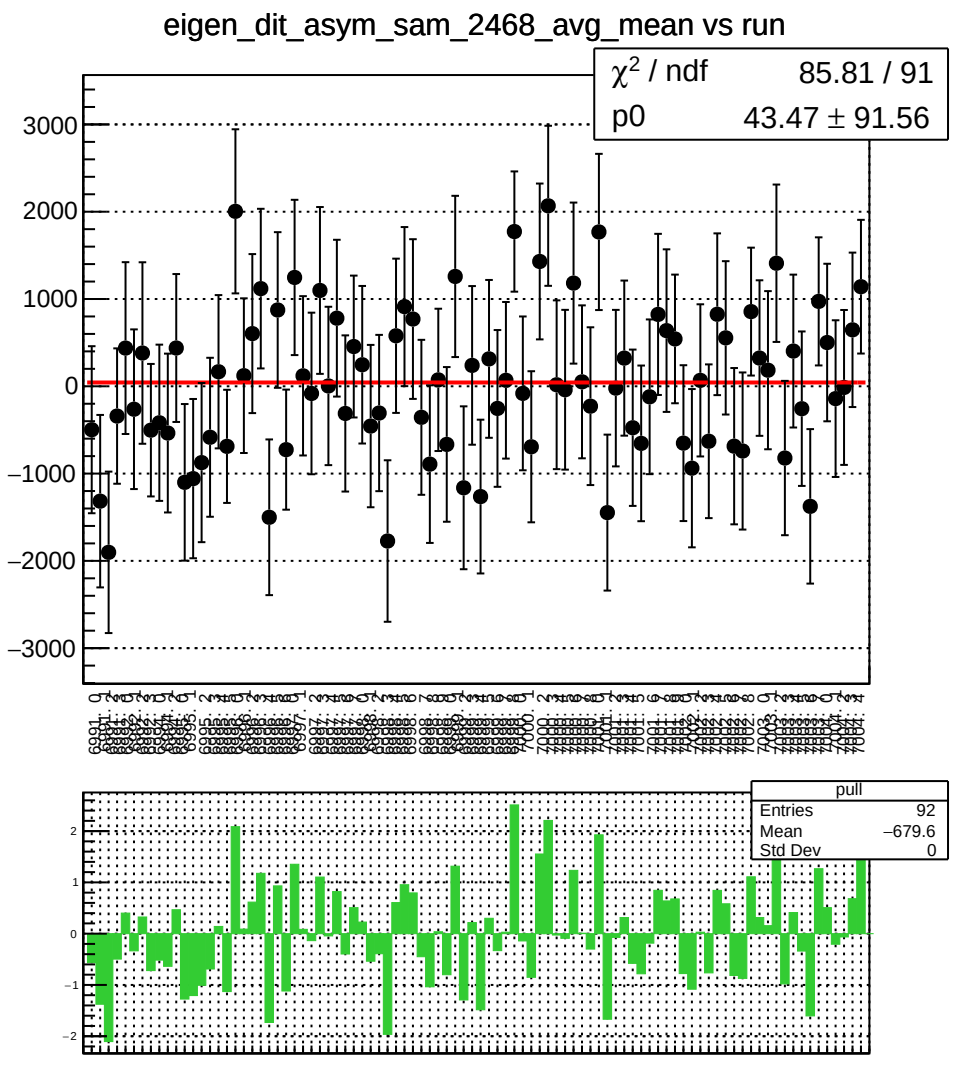

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 85.81 / 91
p0 43.46 ± 91.56
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −679.7
Std Dev 0
2
1
0
−1
−2

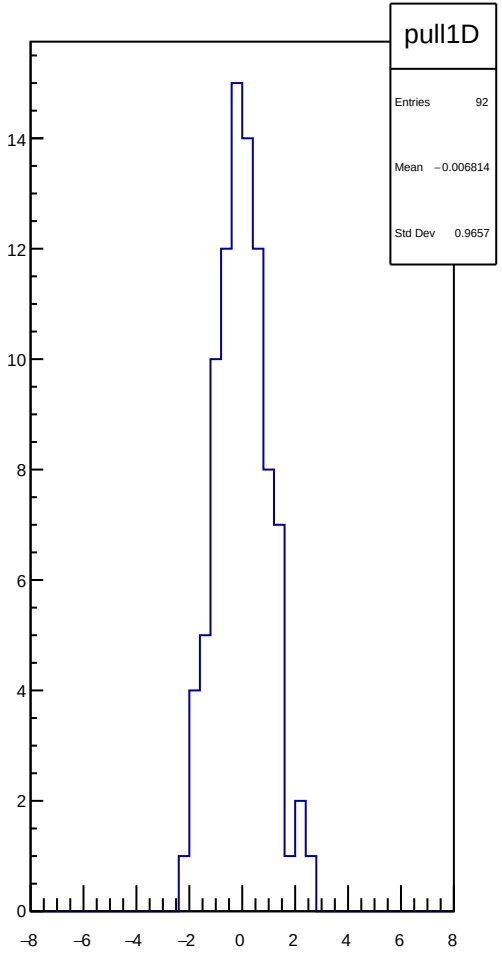

pull1D
Entries 92
Mean −0.006813
Std Dev 0.9657
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

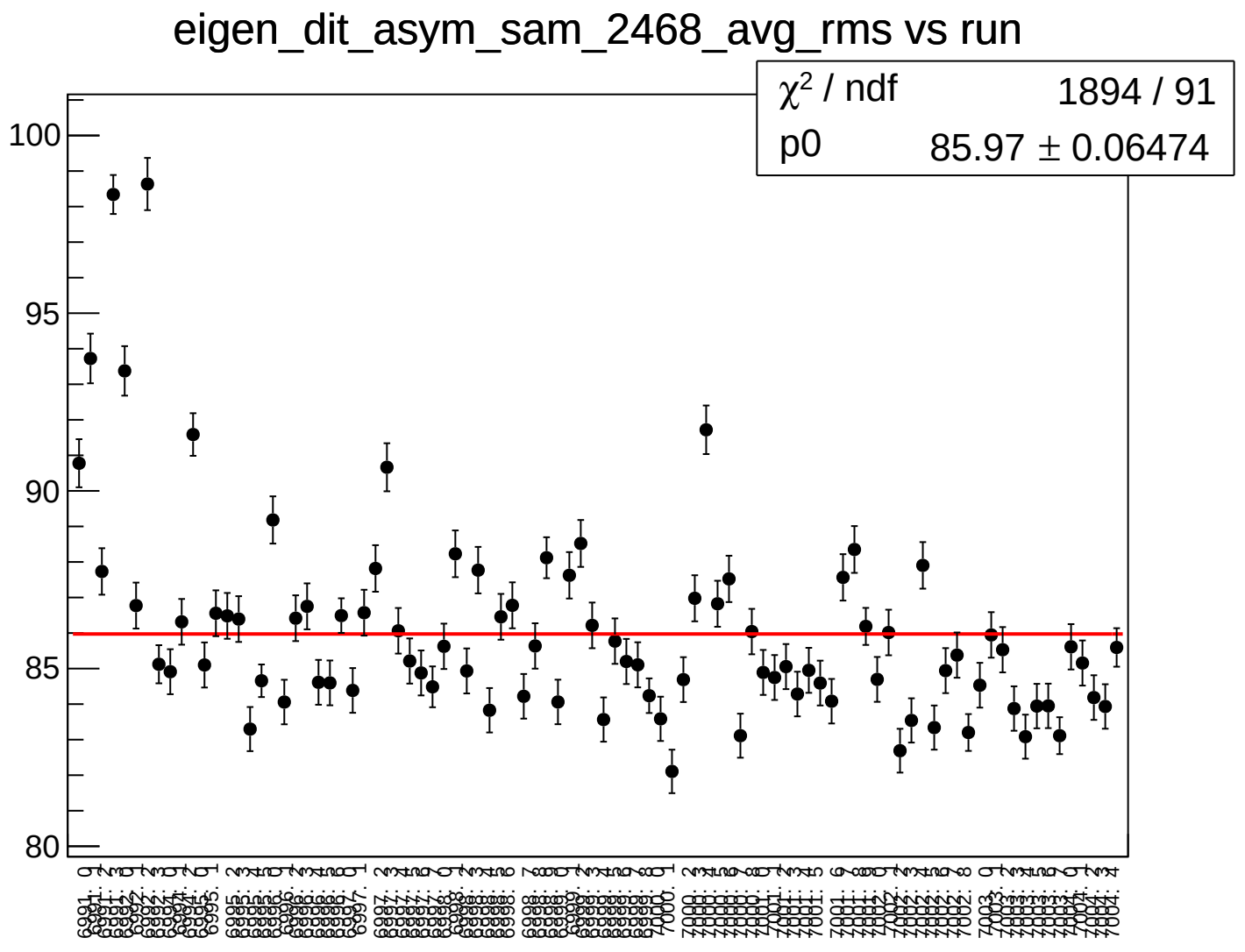

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1894 / 91
p0 85.97 ± 0.06474
100
95
90
85
80

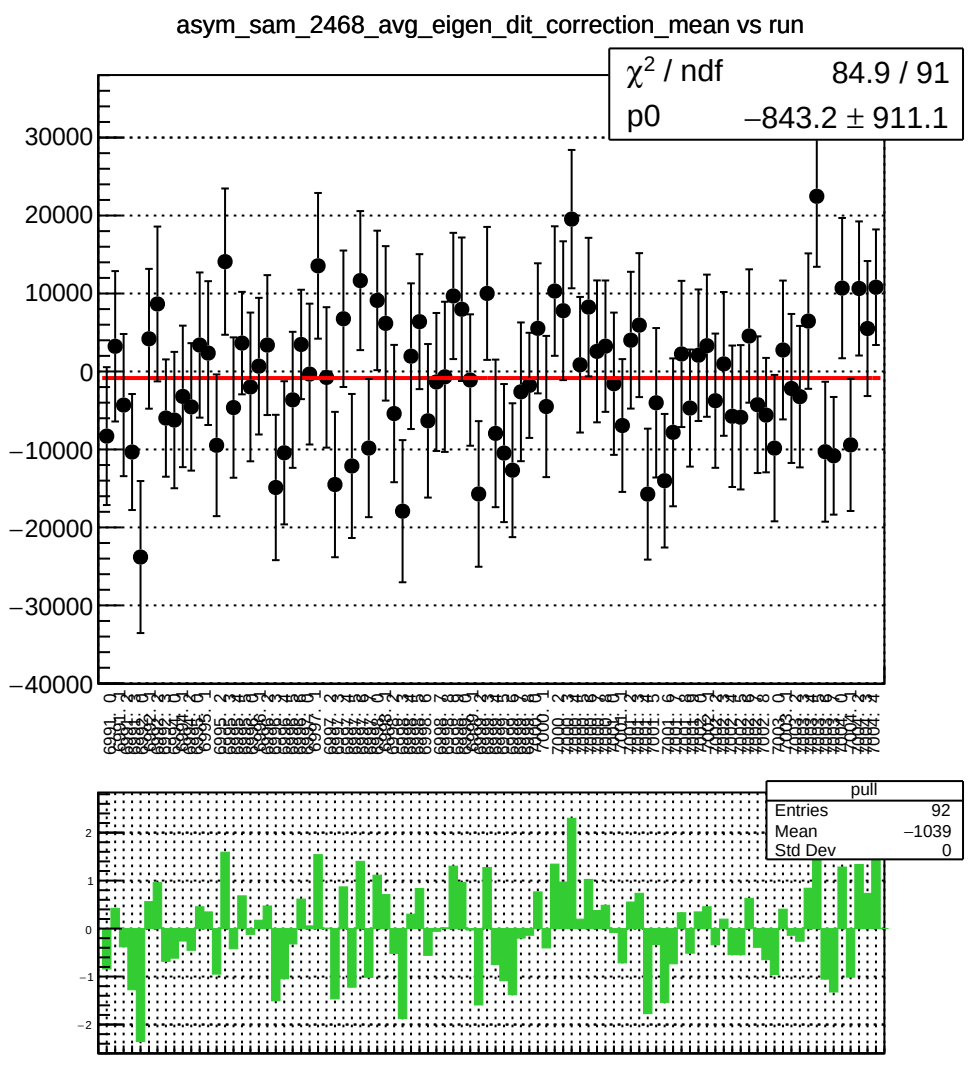

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 84.9 / 91
p0 −843.2 ± 911.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1039
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002988
Std Dev 0.9607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

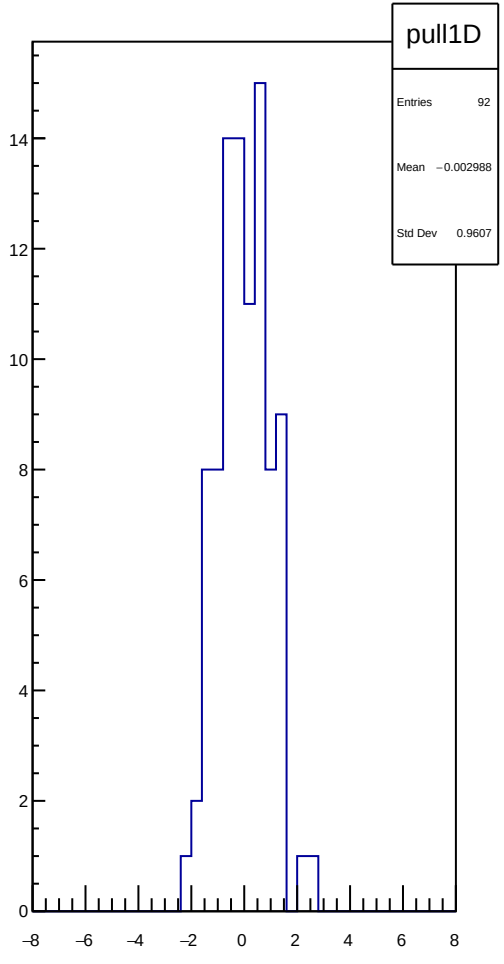

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3067 / 91
p0 855.2 ± 0.6442
960
940
920
900
880
860
840
820
800
780

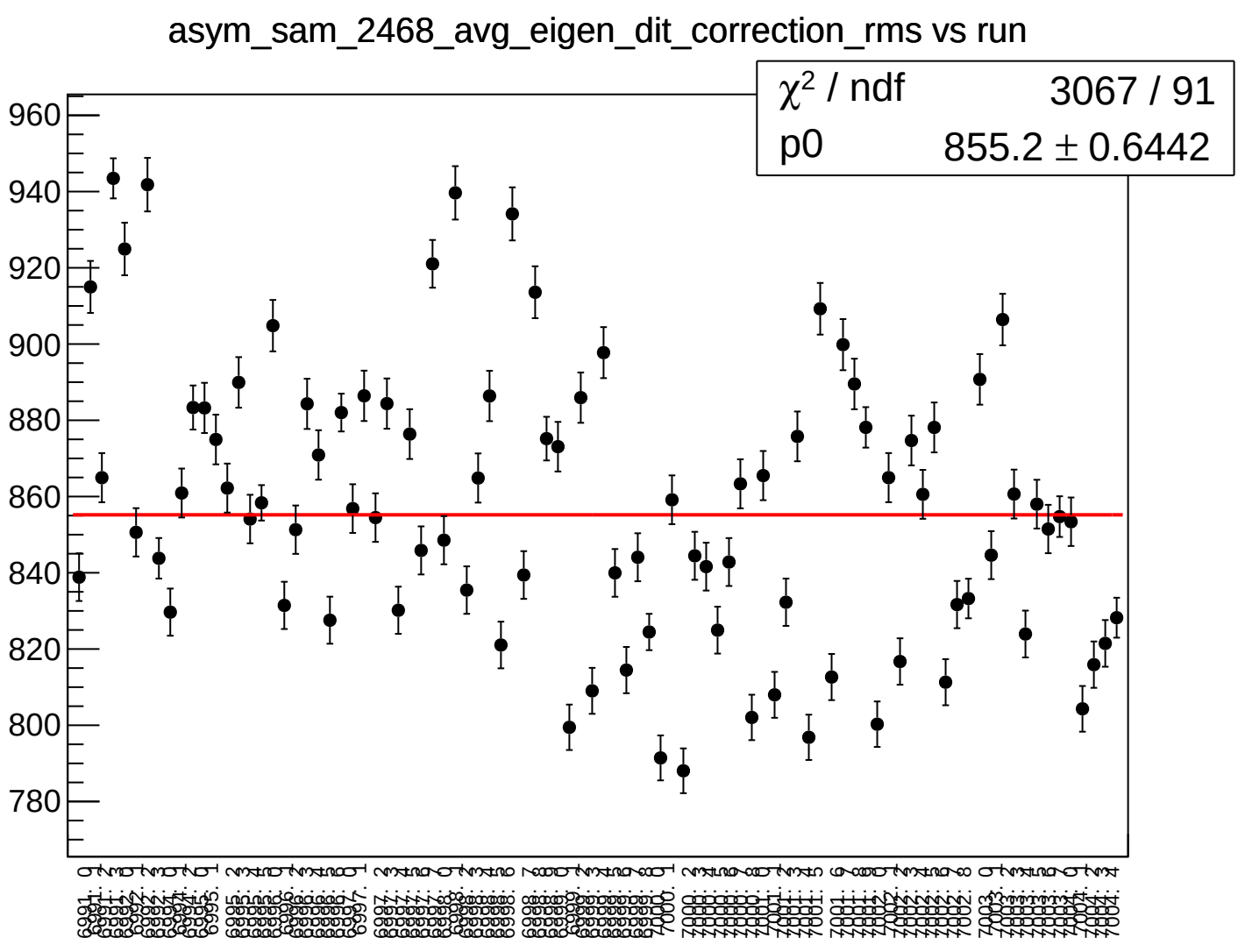

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 85.81 / 91
p0 43.47 ± 91.56
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean −679.6
Std Dev 0
2
1
0
−1
−2

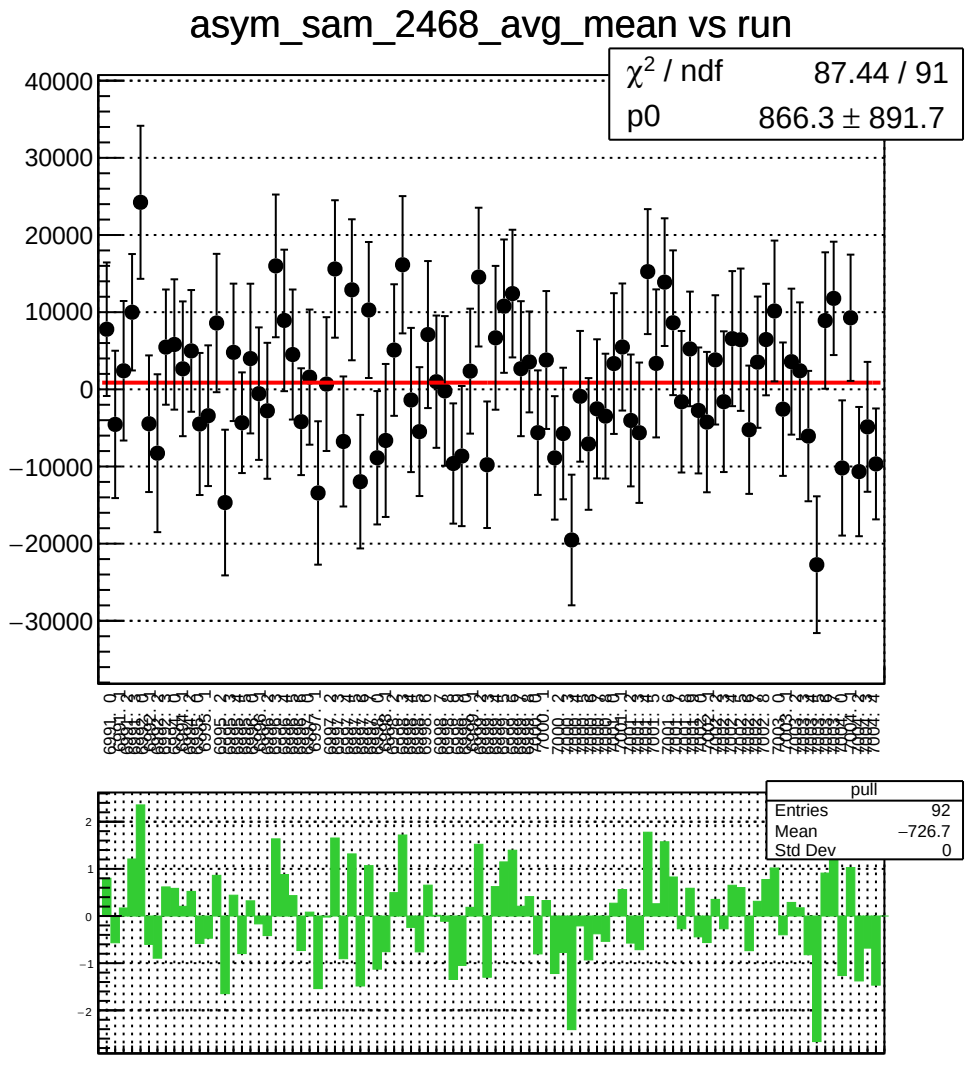

pull1D
Entries 92
Mean −0.006814
Std Dev 0.9657
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

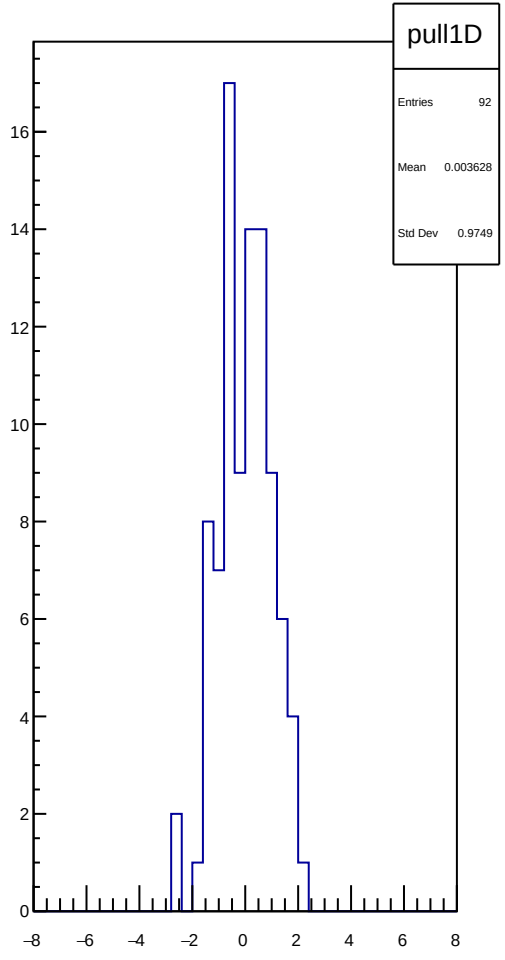

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1894 / 91
p0 85.97 ± 0.06474
100
95
90
85
80

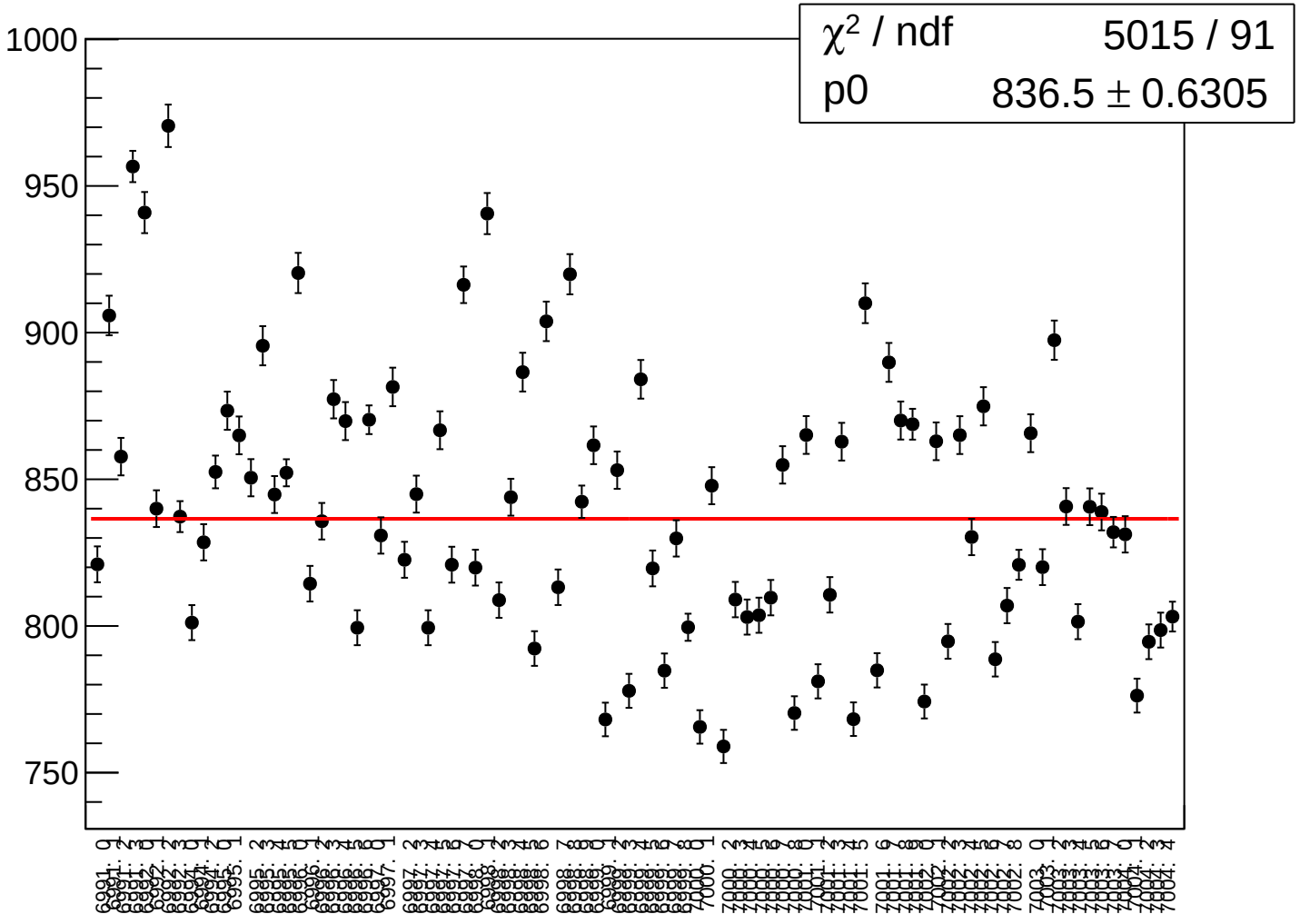

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.9 / 91
p0 −843.2 ± 911.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −1039
Std Dev 0
2
1
0
−1
−2

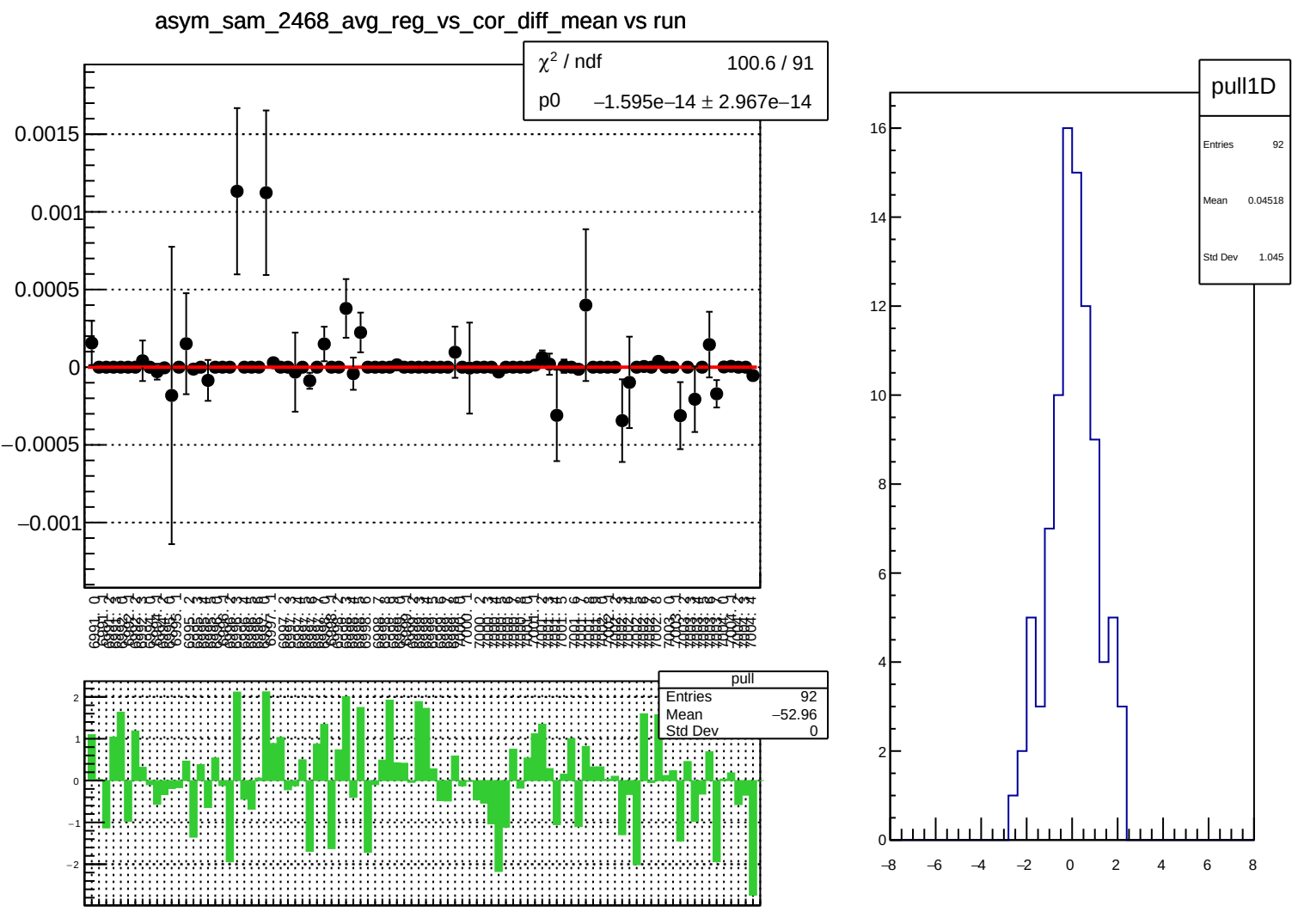

pull1D
Entries 92
Mean −0.002988
Std Dev 0.9607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

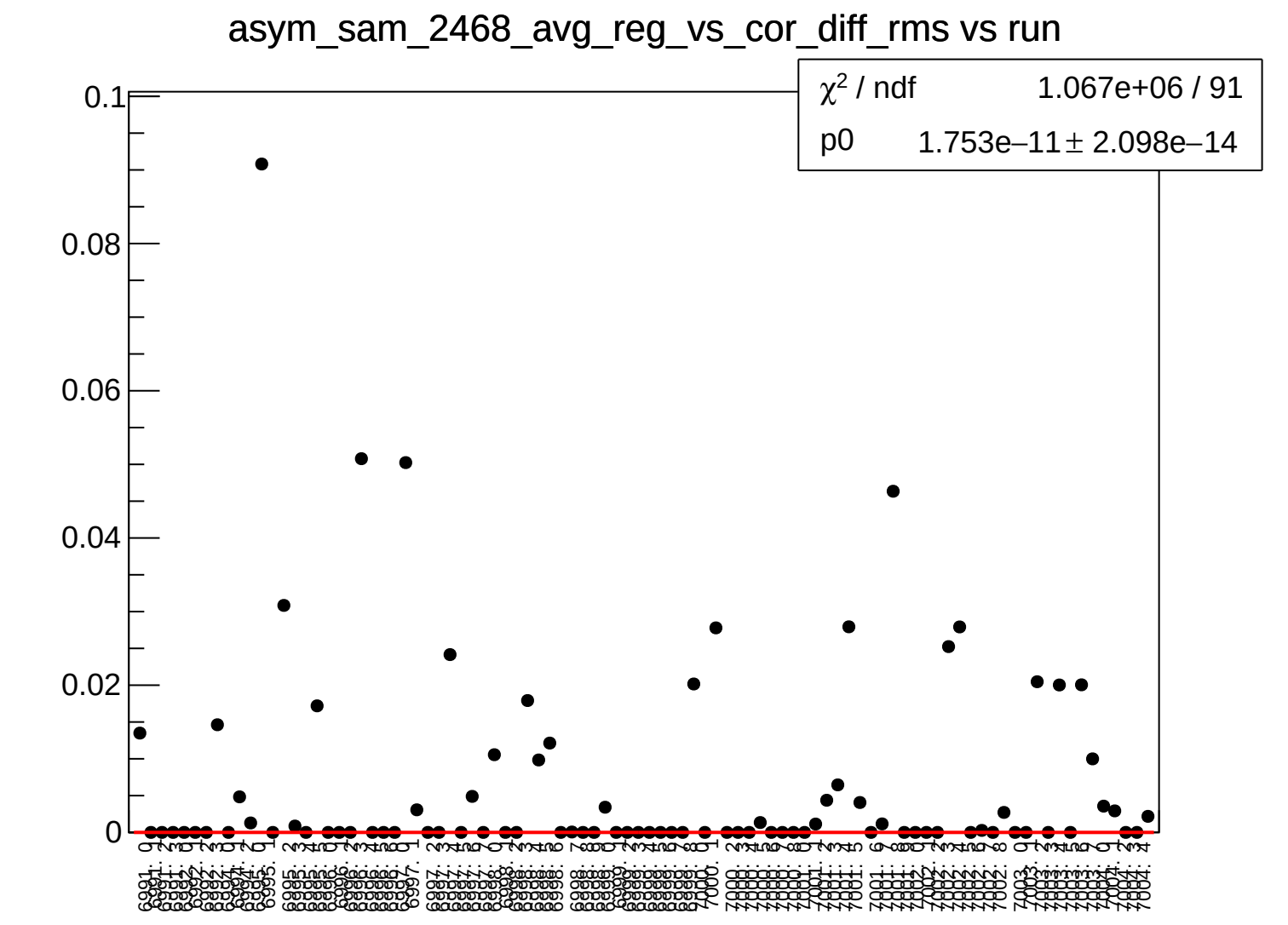

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3067 / 91
p0 855.2 ± 0.6442
960
940
920
900
880
860
840
820
800
780

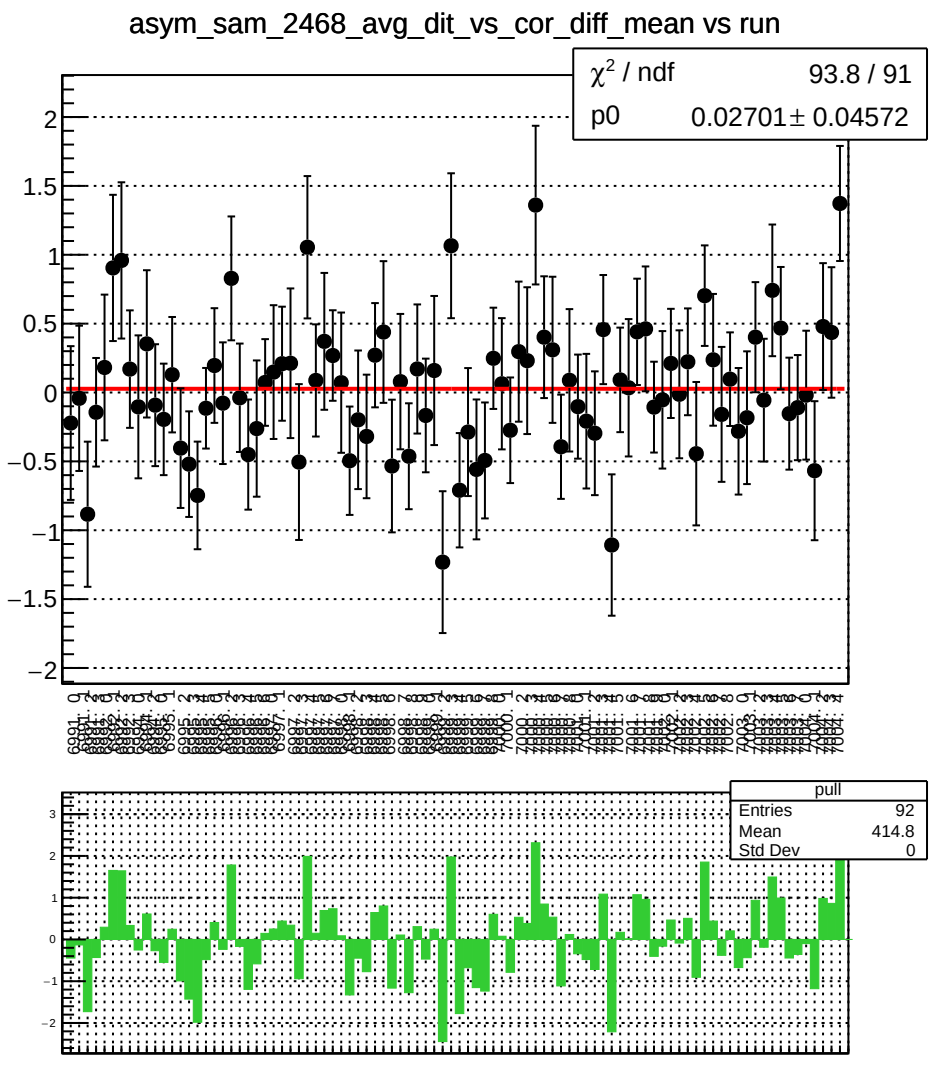

asym_sam_2468_avg_mean vs run
χ² / ndf 87.44 / 91
p0 866.3 ± 891.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −726.7
Std Dev 0
2
1
0
−1
−2

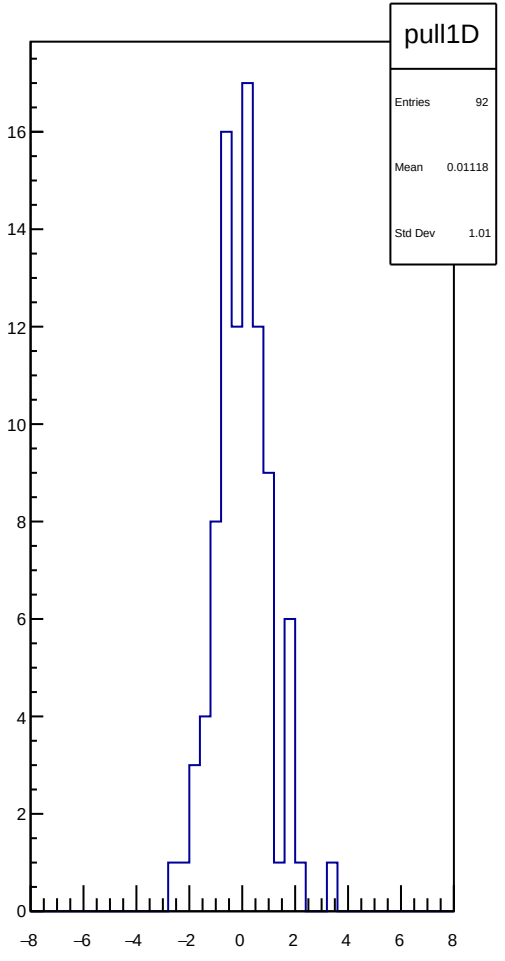

pull1D
Entries 92
Mean 0.003628
Std Dev 0.9749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

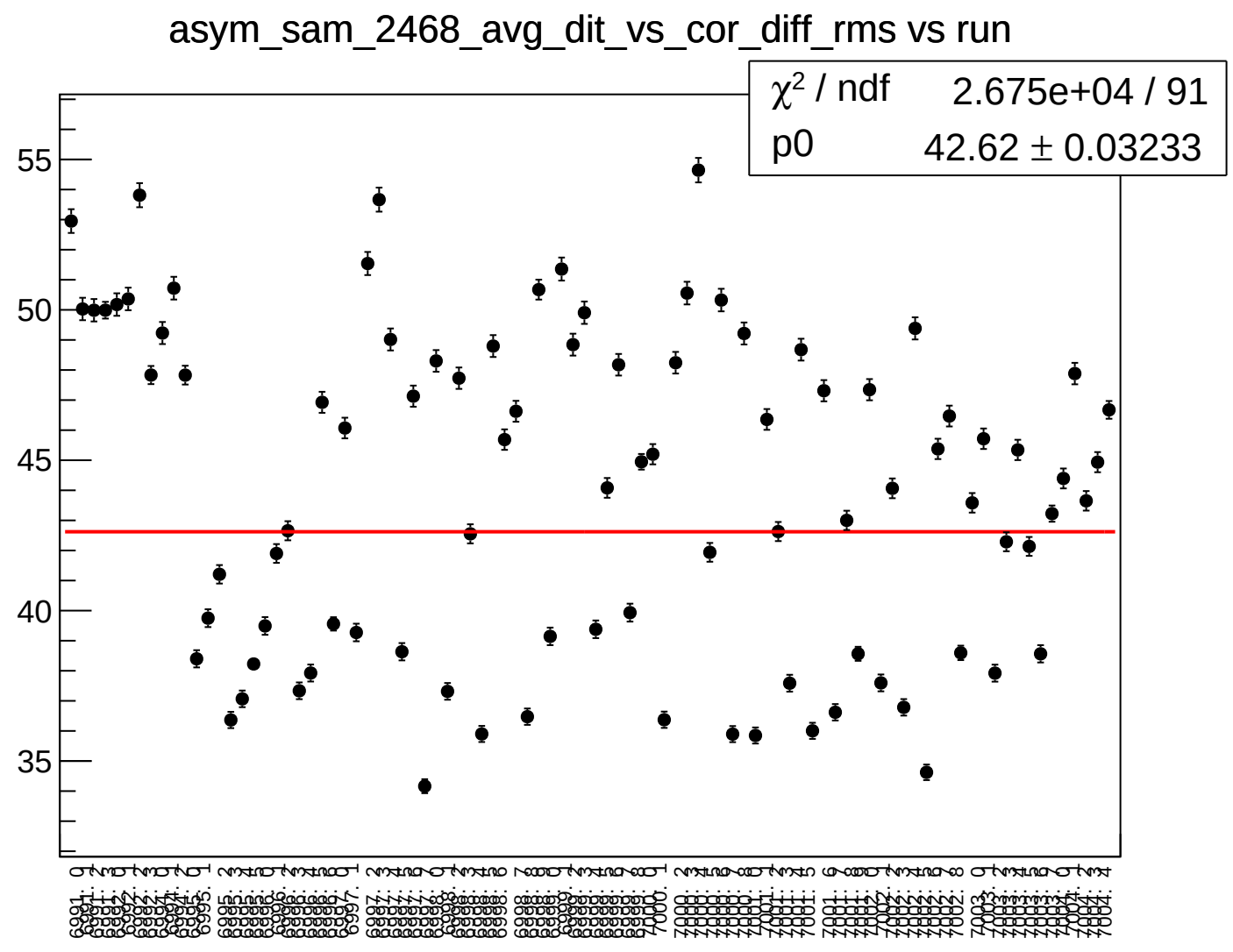

asym_sam_2468_avg_rms vs run
χ² / ndf 5015 / 91
p0 836.5 ± 0.6305
1000
950
900
850
800
750

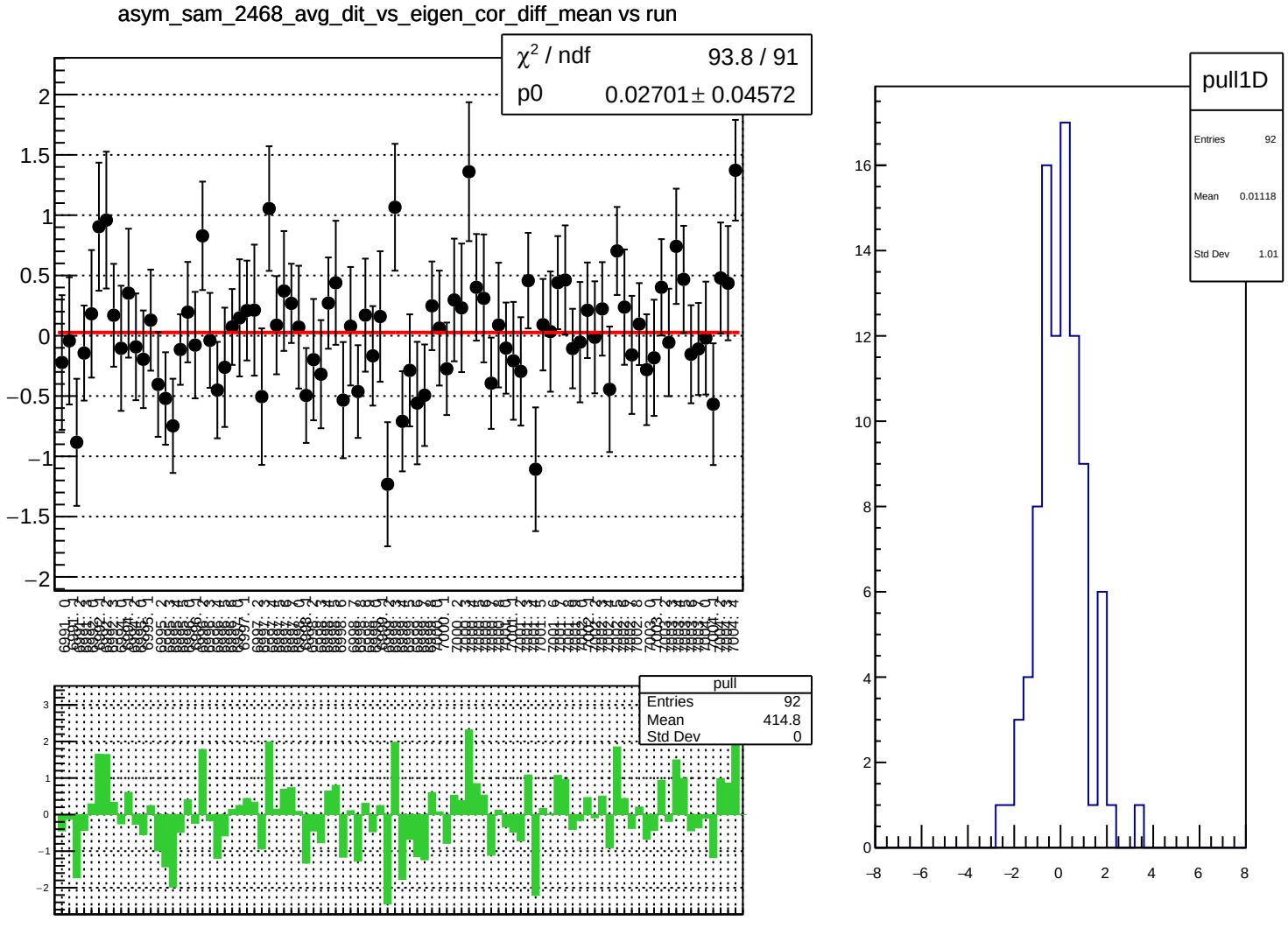

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.6 / 91
p0 −1.595e−14 ± 2.967e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −52.96
Std Dev 0
pull1D
Entries 92
Mean 0.04518
Std Dev 1.045

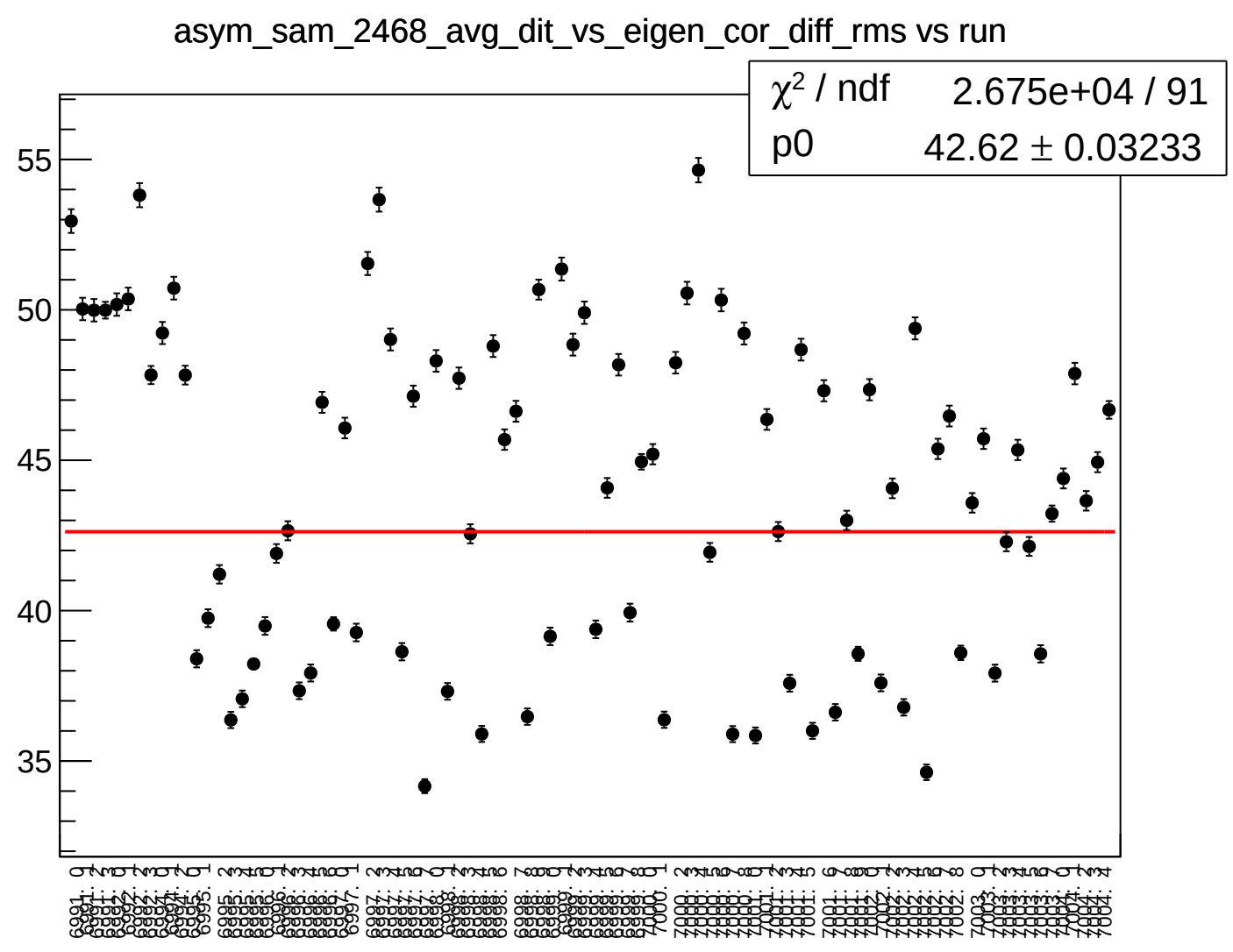

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.067e+06 / 91
p0 1.753e−11 ± 2.098e−14
0.1
0.08
0.06
0.04
0.02
0

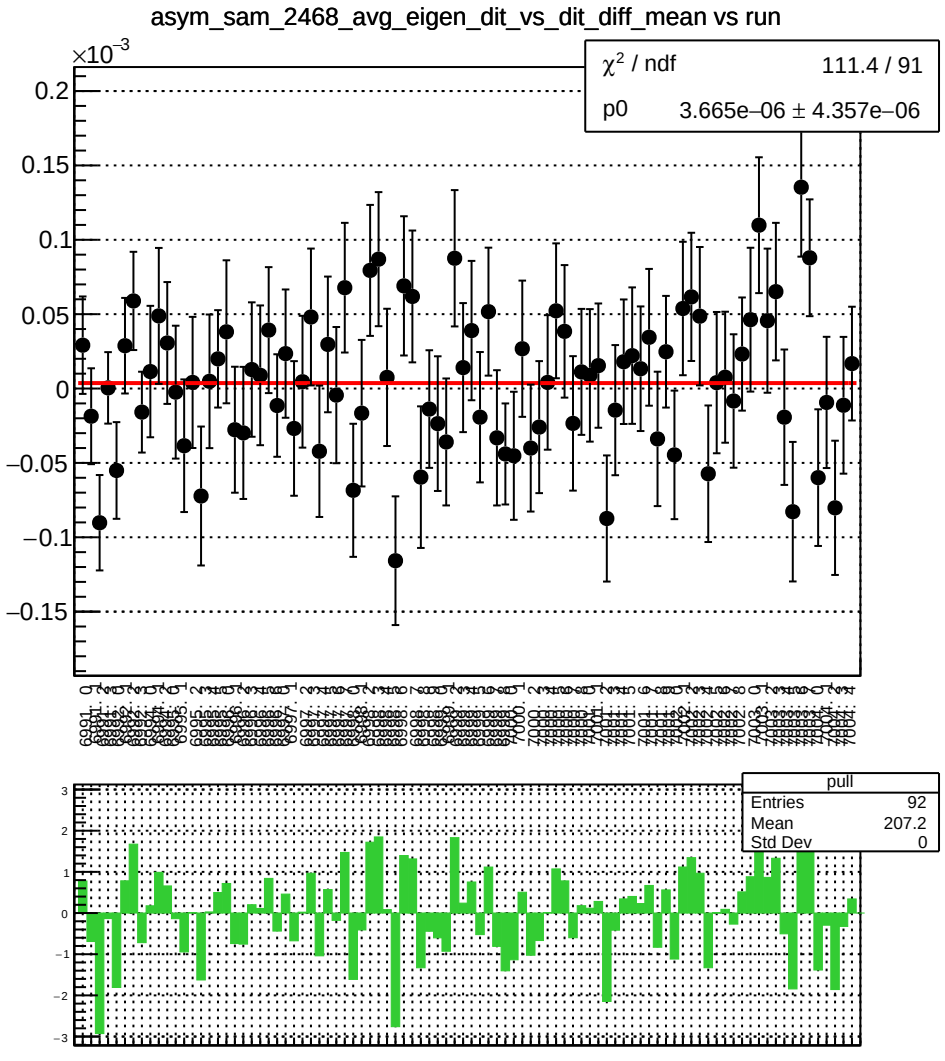

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.8 / 91
p0 0.02701 ± 0.04572
pull
Entries 92
Mean 414.8
Std Dev 0

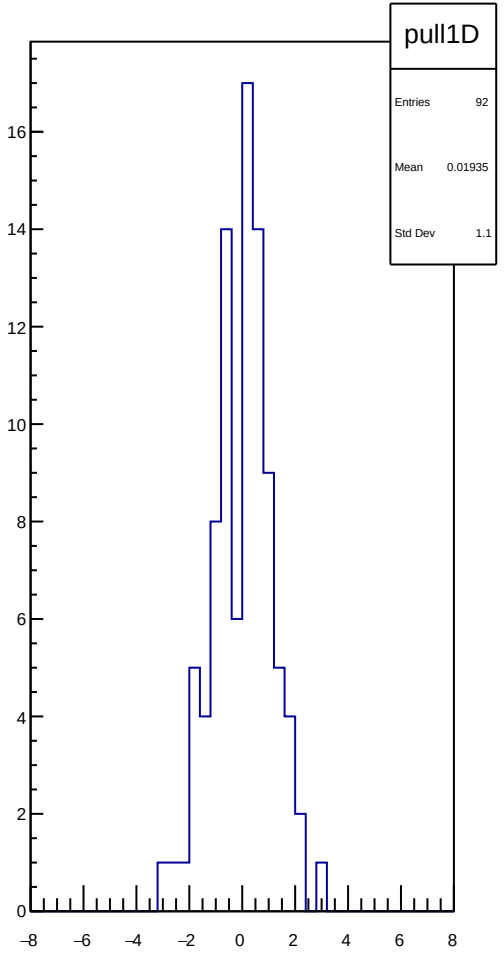

pull1D
Entries 92
Mean 0.01118
Std Dev 1.01

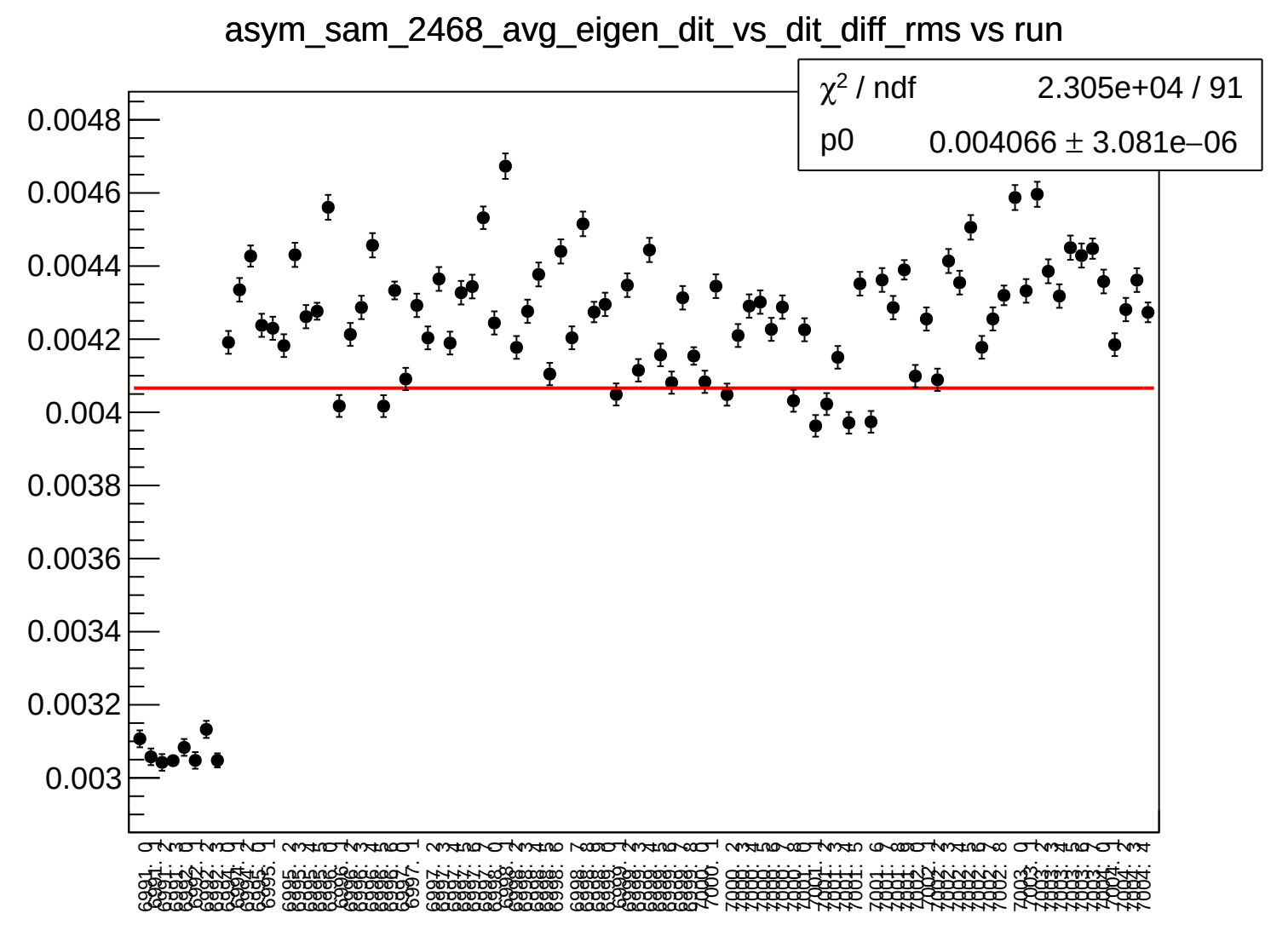

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.675e+04 / 91
p0 42.62 ± 0.03233
55
50
45
40
35

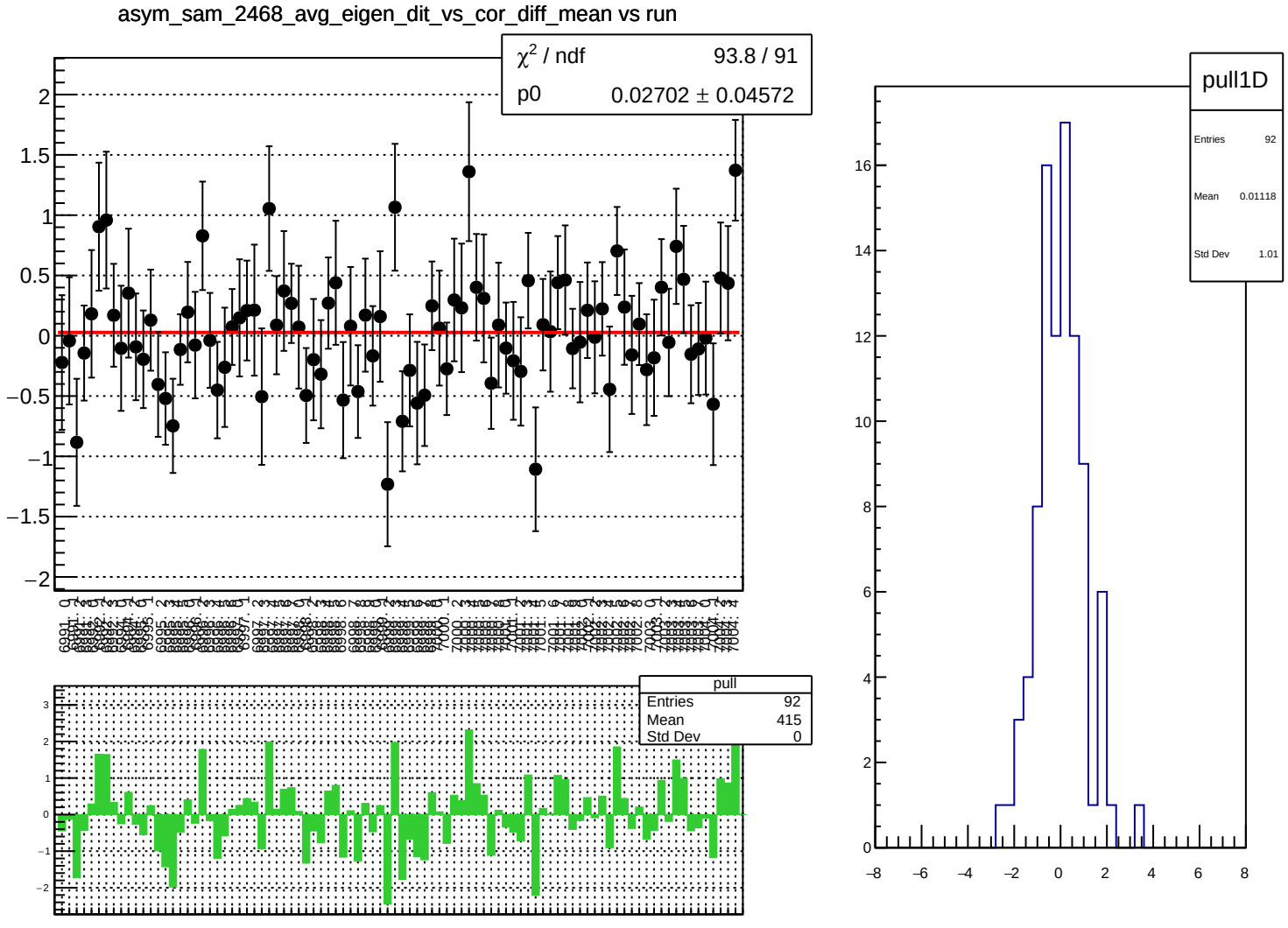

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.8 / 91
p0 0.02701 ± 0.04572
pull
Entries 92
Mean 414.8
Std Dev 0
pull1D
Entries 92
Mean 0.01118
Std Dev 1.01

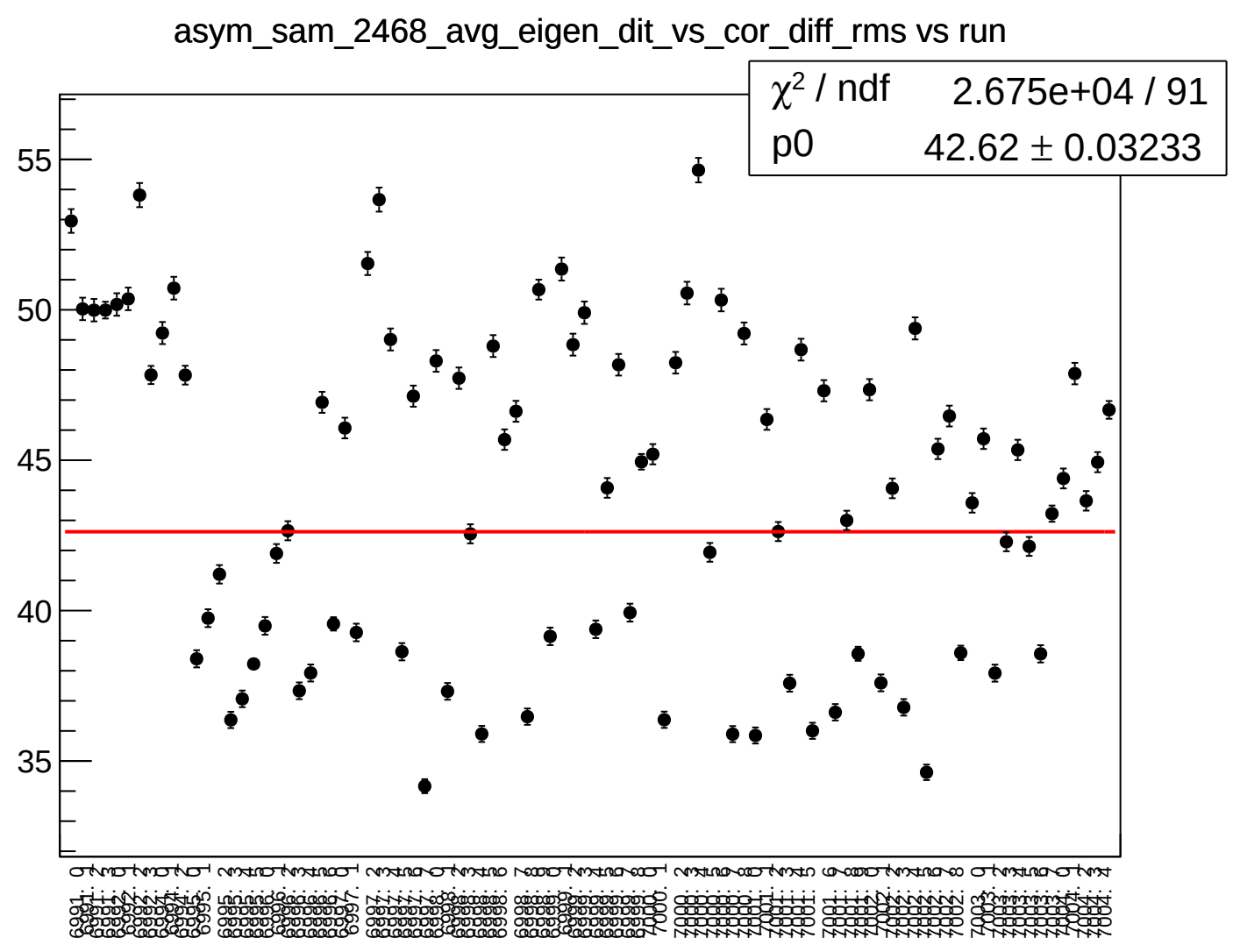

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.675e+04 / 91
p0 42.62 ± 0.03233
55
50
45
40
35

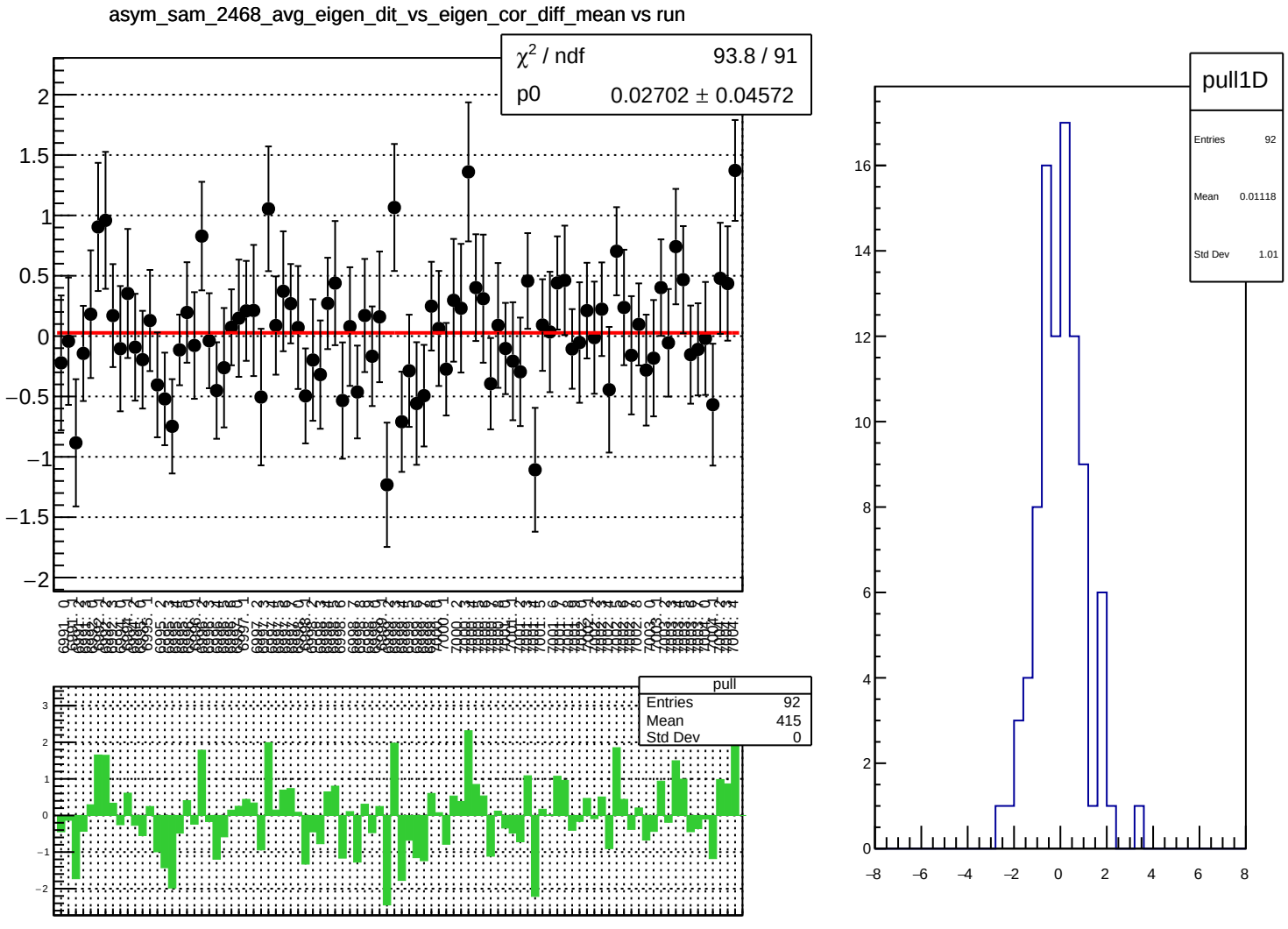

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.4 / 91
p0 3.665e−06 ± 4.357e−06
pull
Entries 92
Mean 207.2
Std Dev 0

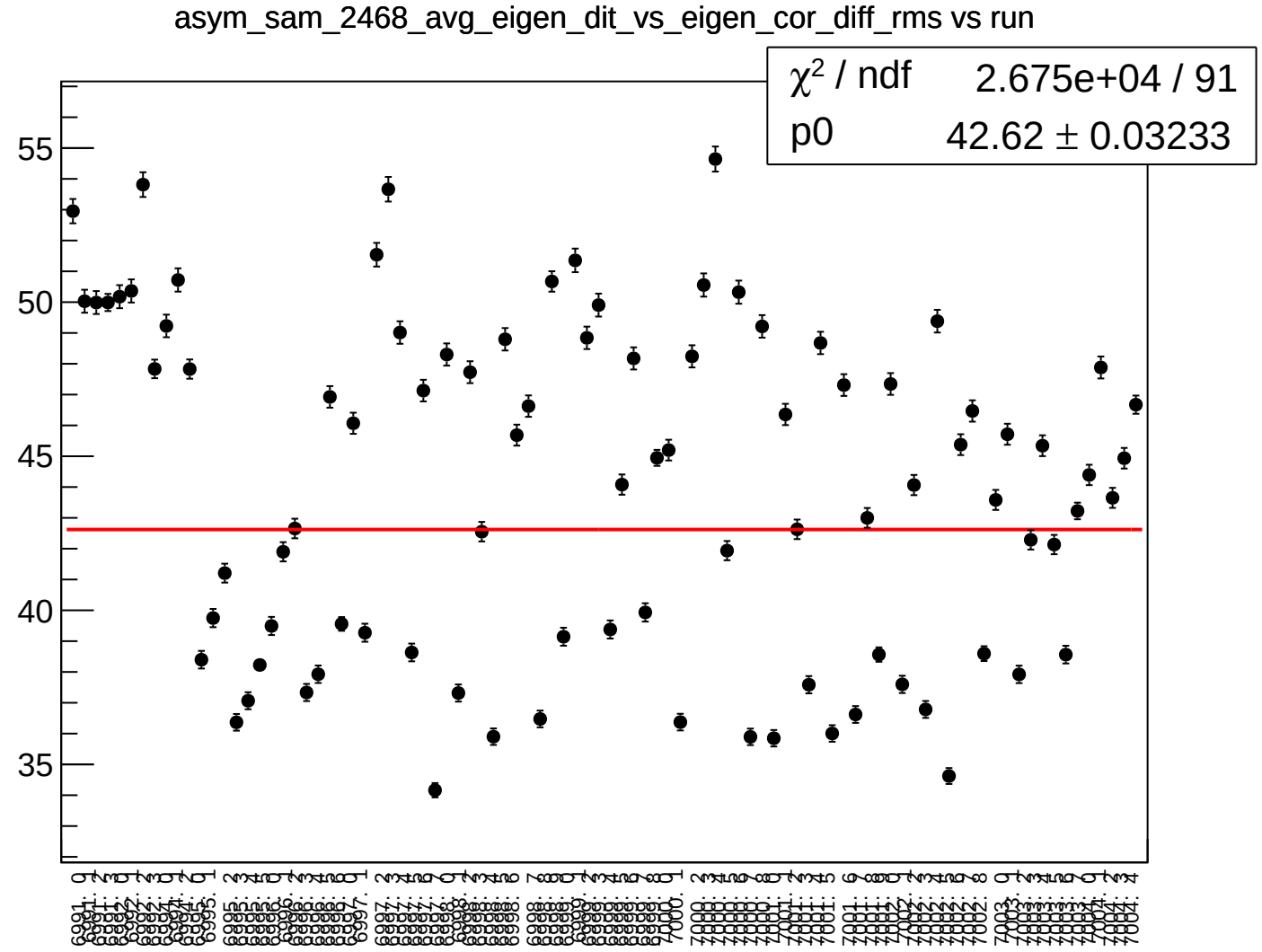

pull1D
Entries 92
Mean 0.01935
Std Dev 1.1

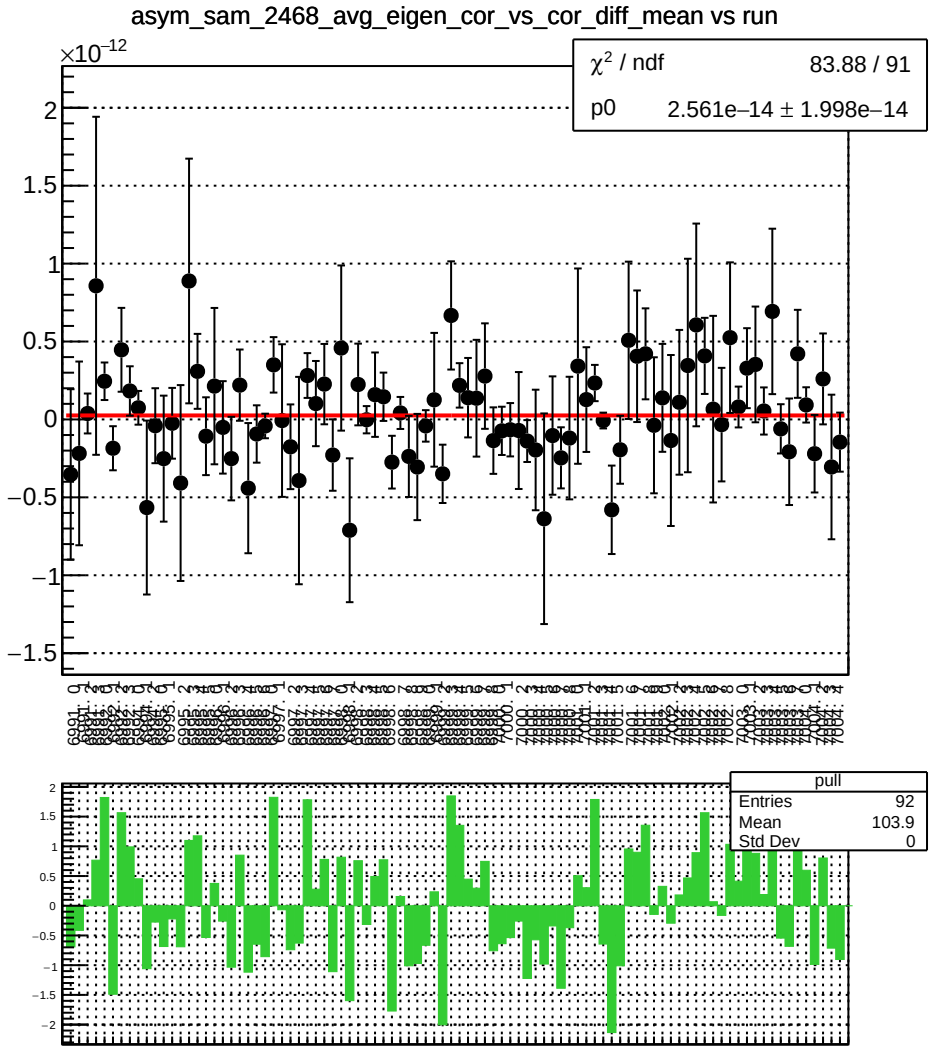

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.305e+04 / 91
p0 0.004066 ± 3.081e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

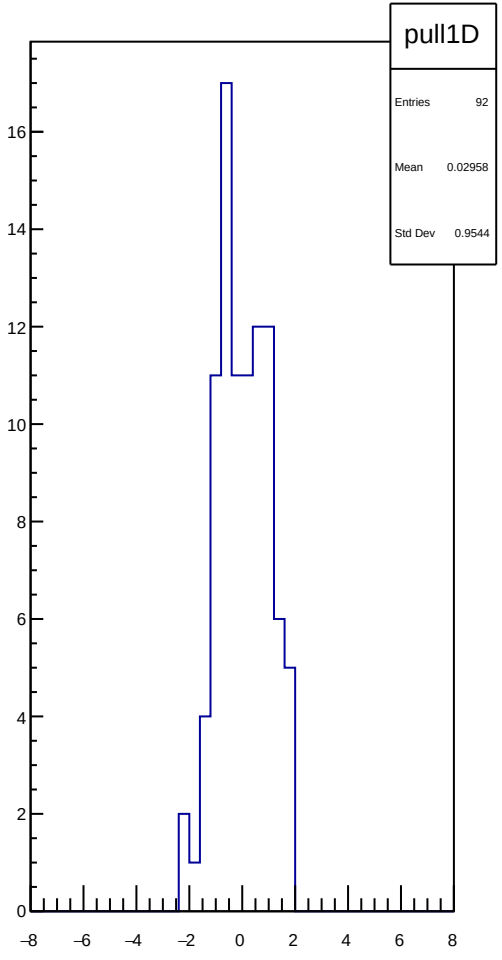

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.8 / 91
p0 0.02702 ± 0.04572
pull
Entries 92
Mean 415
Std Dev 0
pull1D
Entries 92
Mean 0.01118
Std Dev 1.01

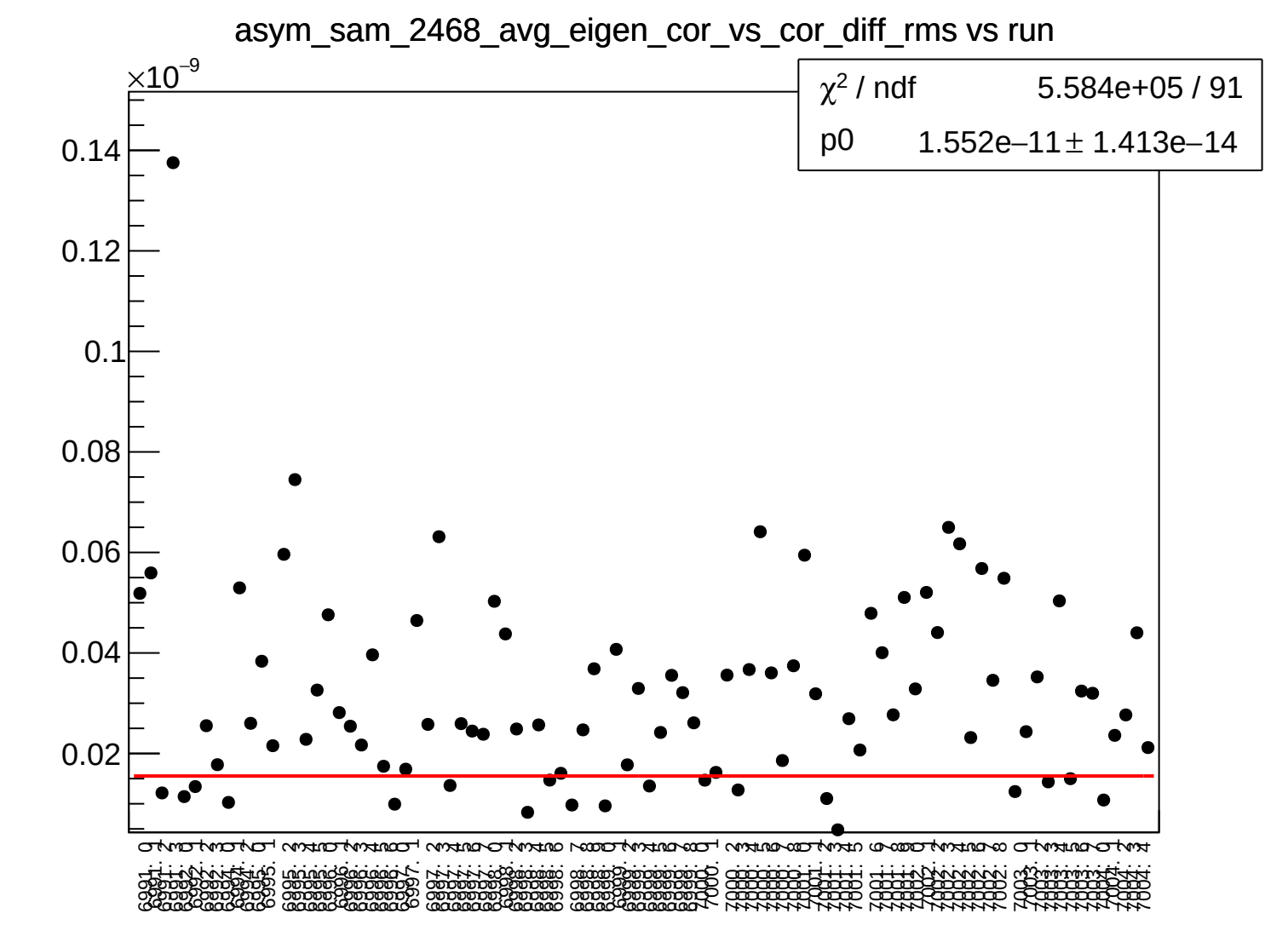

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.675e+04 / 91
p0 42.62 ± 0.03233
55
50
45
40
35

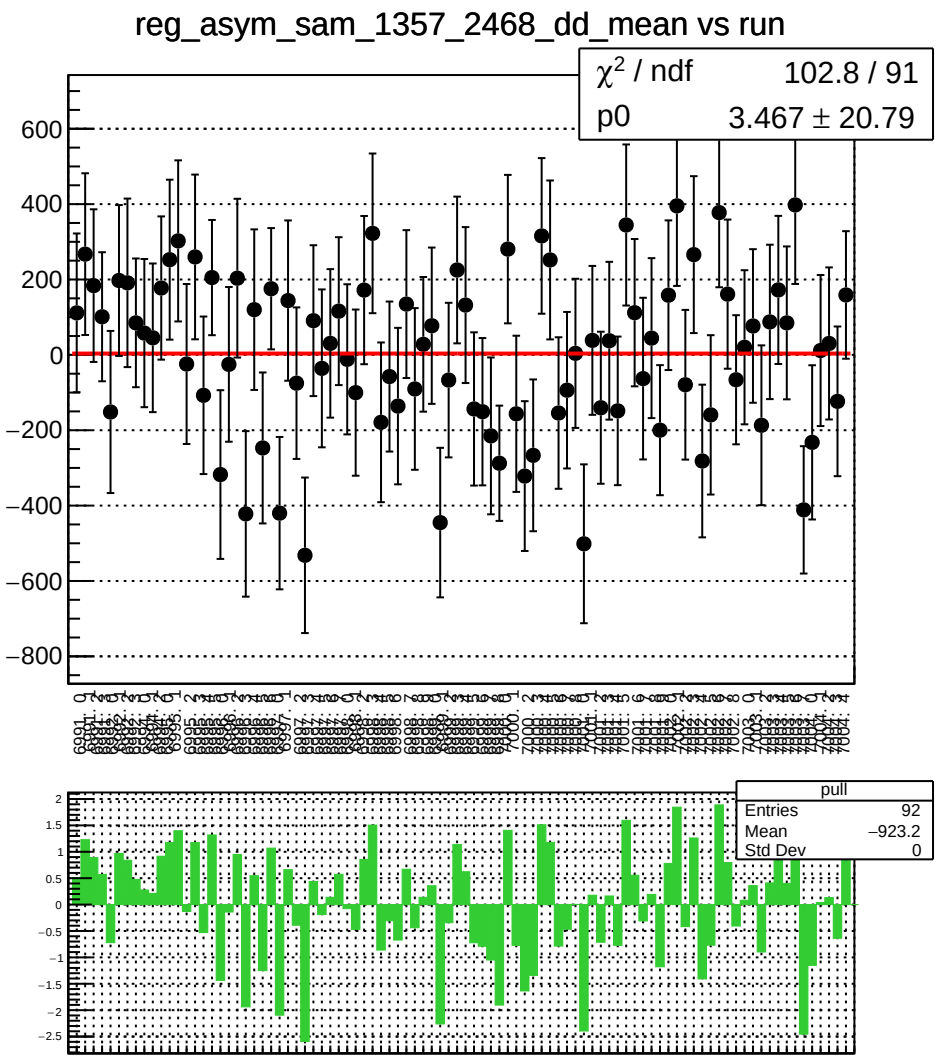

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.8 / 91
p0 0.02702 ± 0.04572
pull
Entries 92
Mean 415
Std Dev 0
pull1D
Entries 92
Mean 0.01118
Std Dev 1.01

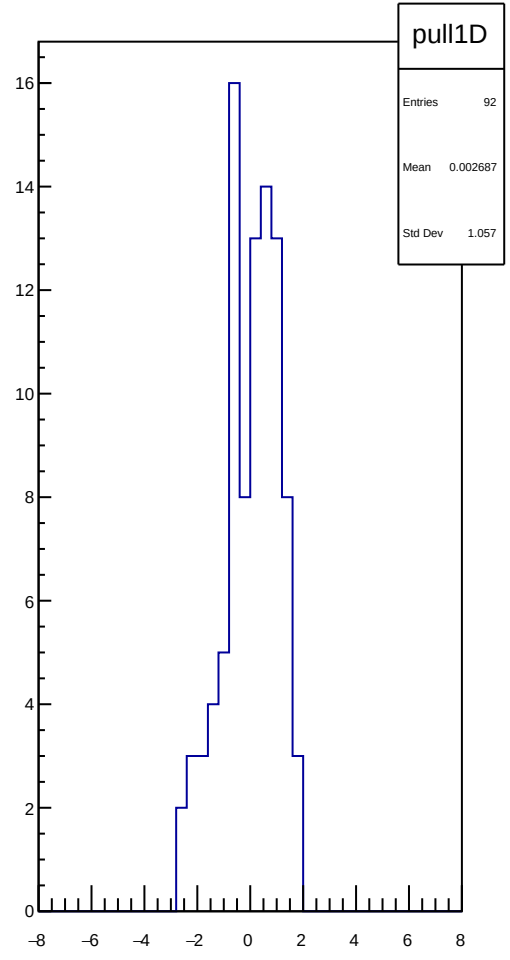

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.675e+04 / 91
p0 42.62 ± 0.03233
55
50
45
40
35

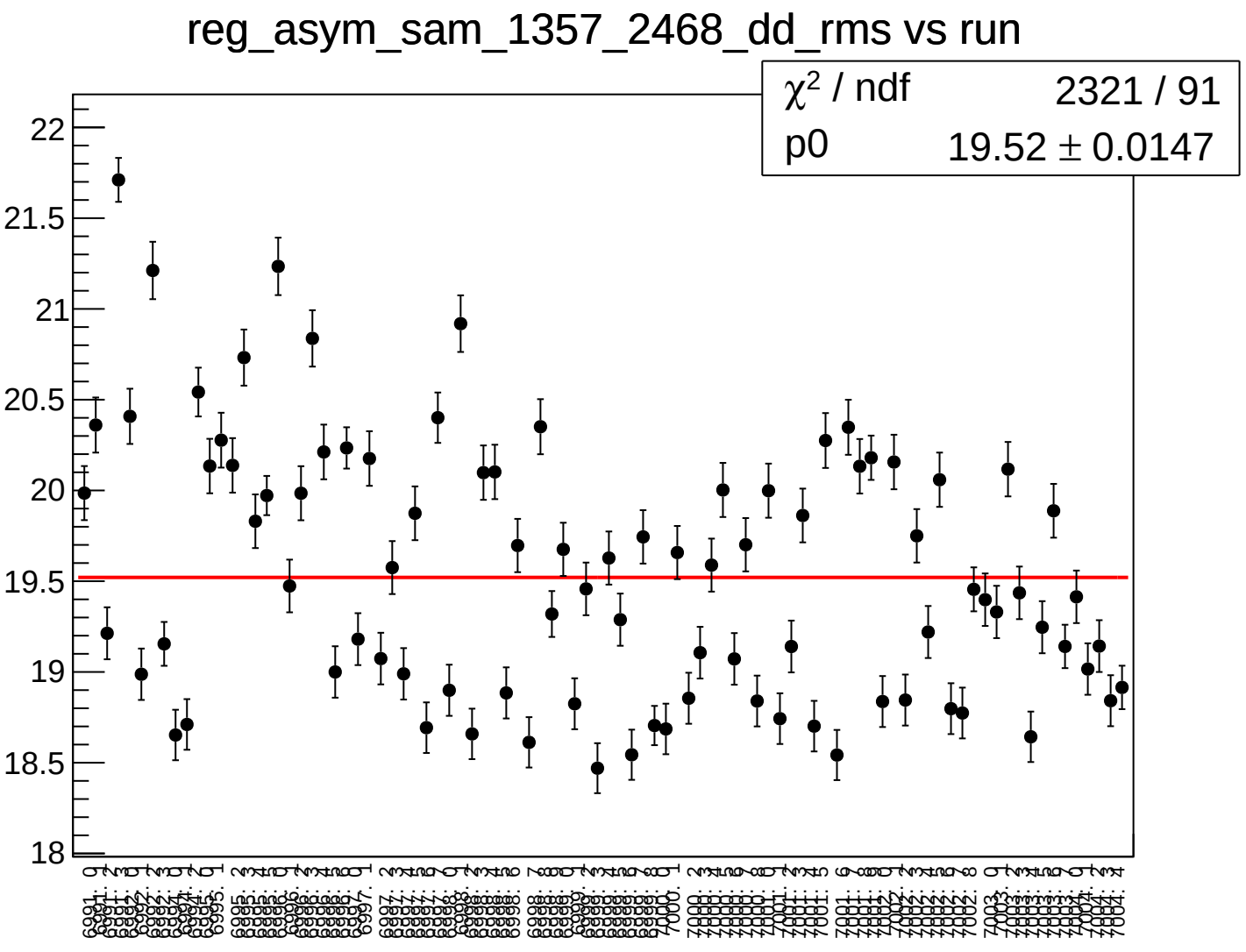

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.88 / 91
p0 2.561e−14 ± 1.998e−14
pull
Entries 92
Mean 103.9
Std Dev 0

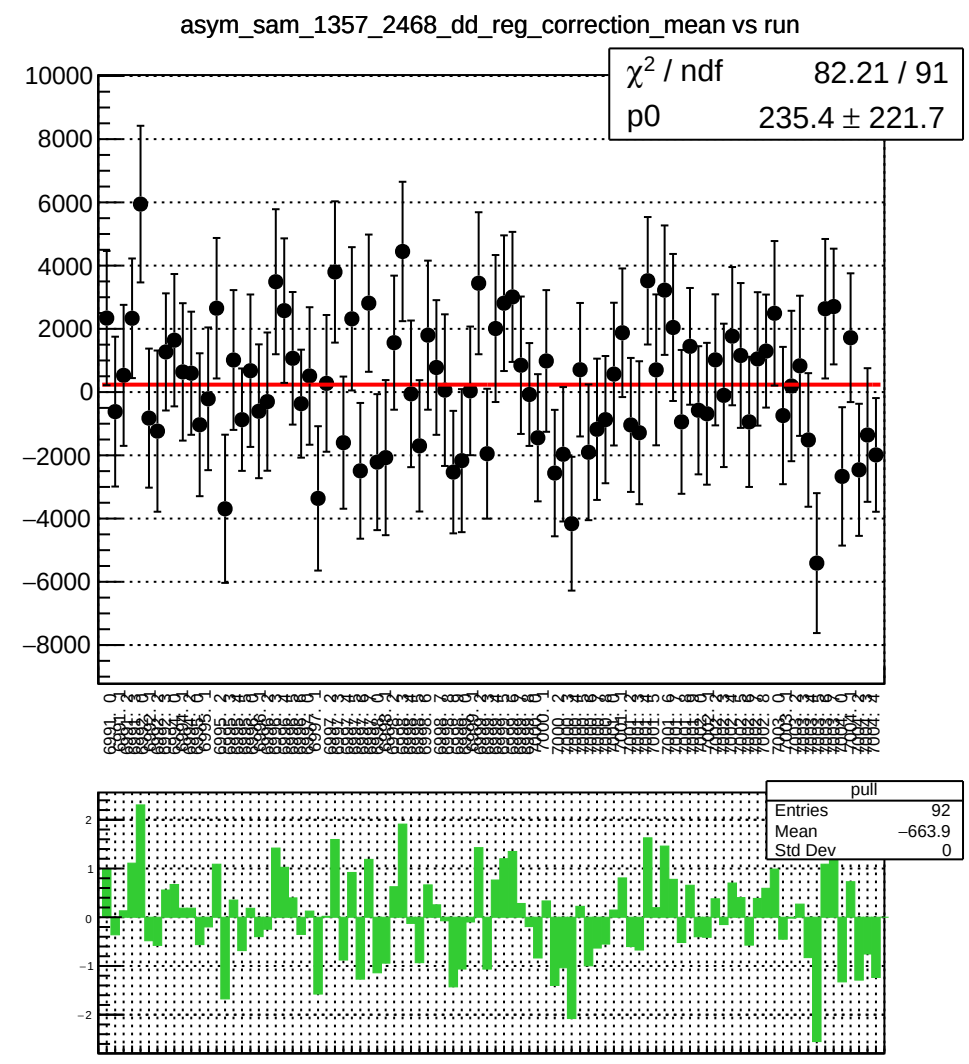

pull1D
Entries 92
Mean 0.02958
Std Dev 0.9544

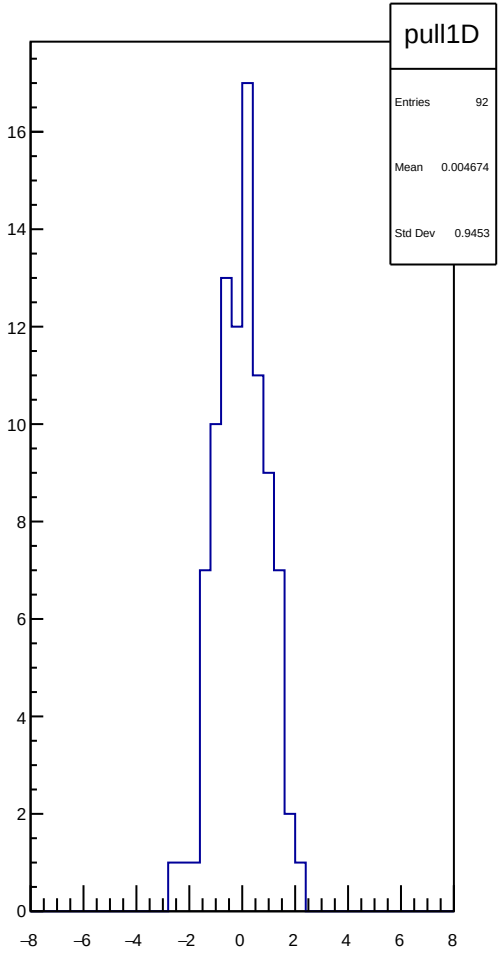

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.584e+05 / 91
p0 1.552e−11 ± 1.413e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

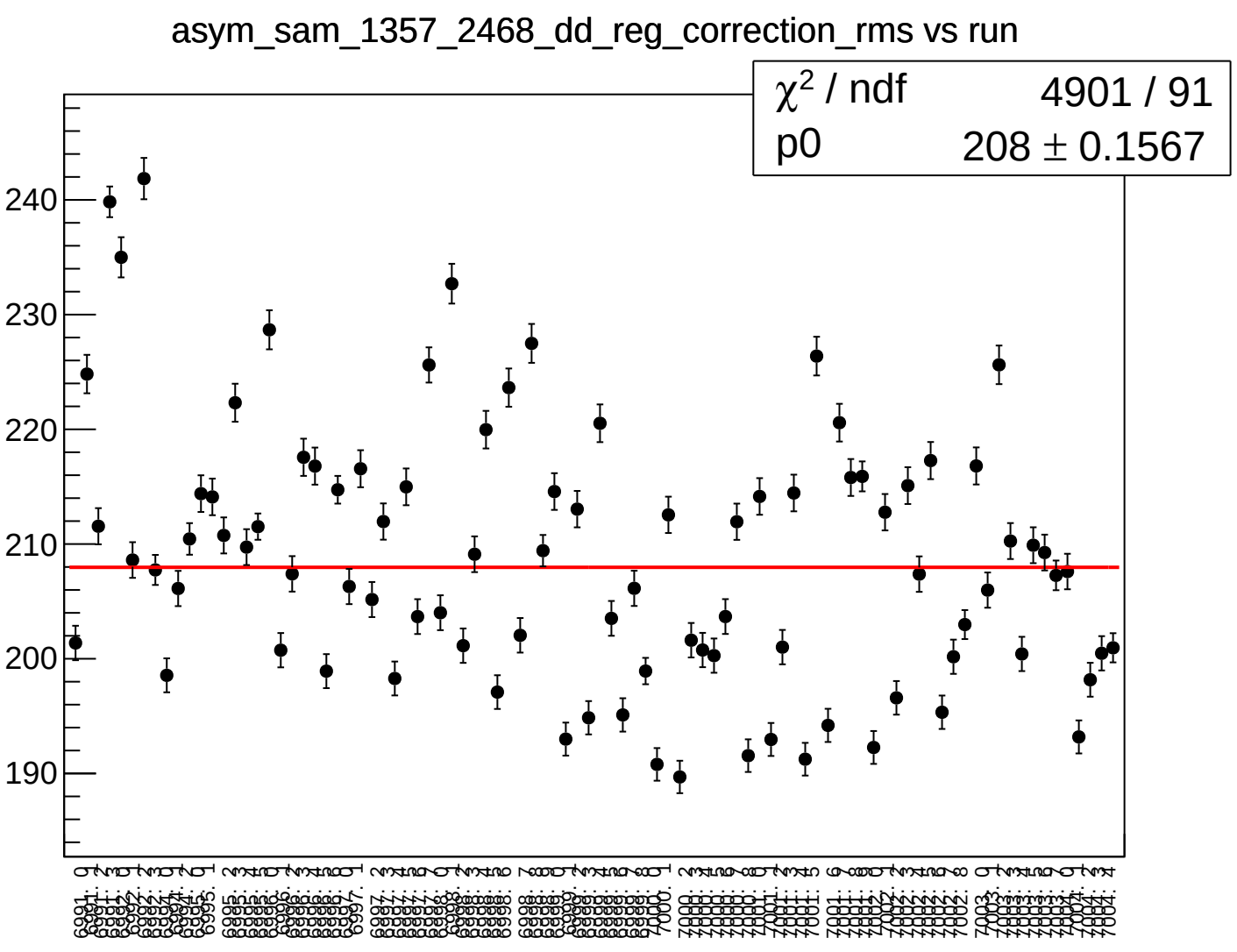

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 102.8 / 91
p0 3.467 ± 20.79
pull
Entries 92
Mean −923.2
Std Dev 0

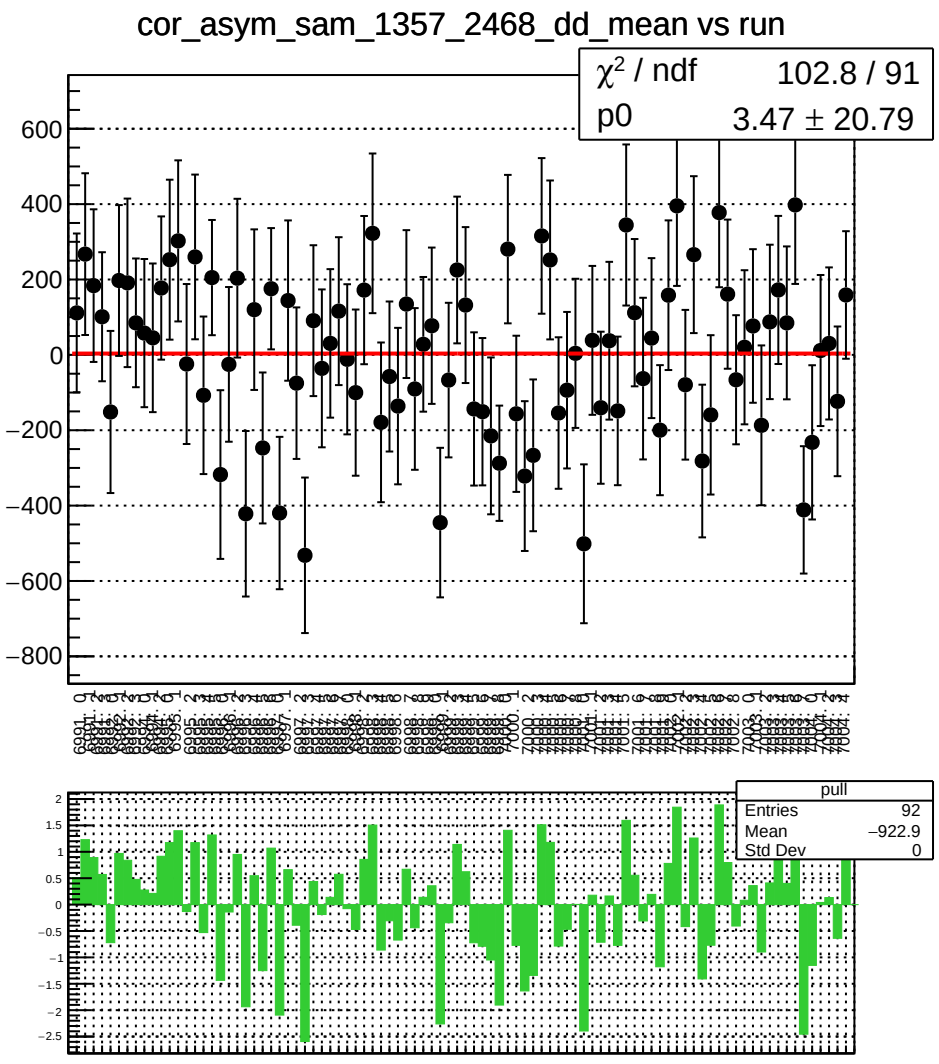

pull1D
Entries 92
Mean 0.002687
Std Dev 1.057

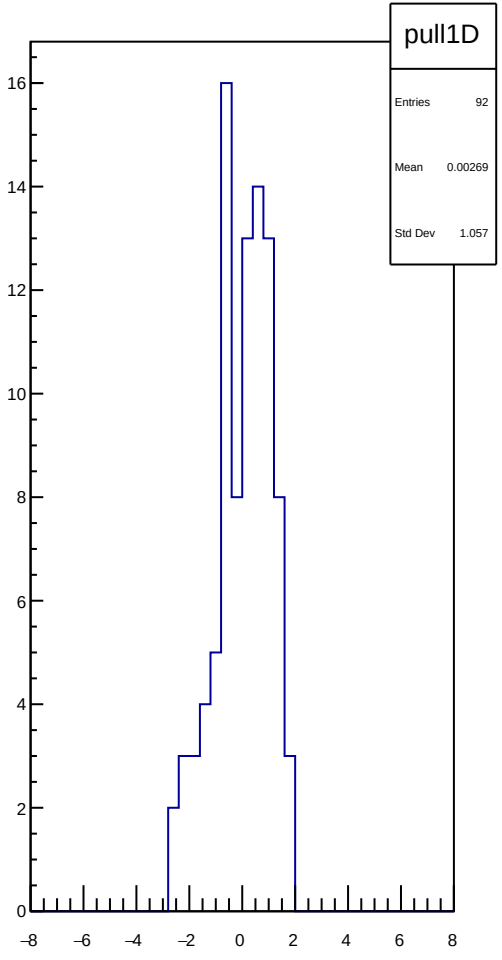

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2321 / 91
p0 19.52 ± 0.0147
22
21.5
21
20.5
20
19.5
19
18.5
18

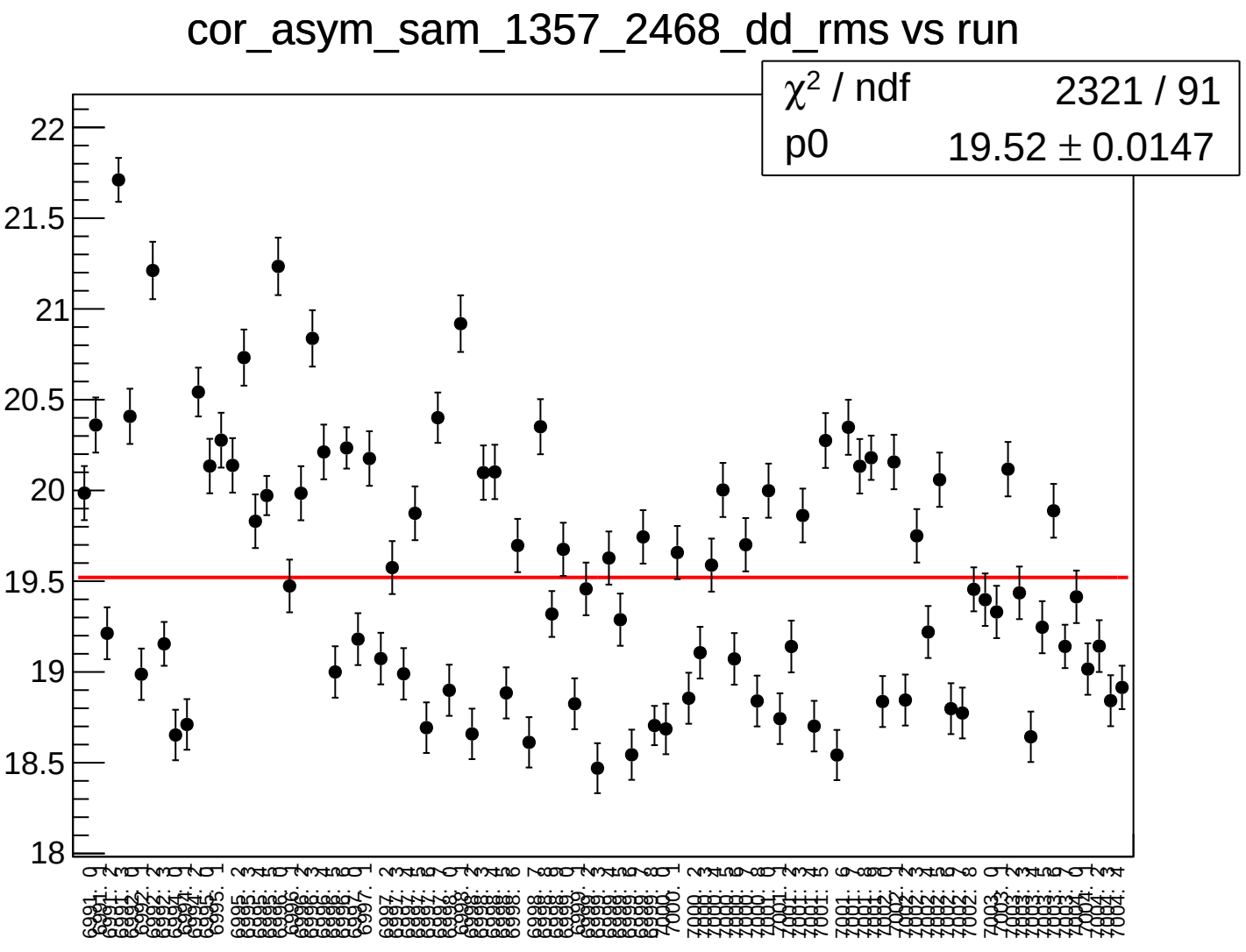

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 82.21 / 91
p0 235.4 ± 221.7
pull
Entries 92
Mean −663.9
Std Dev 0

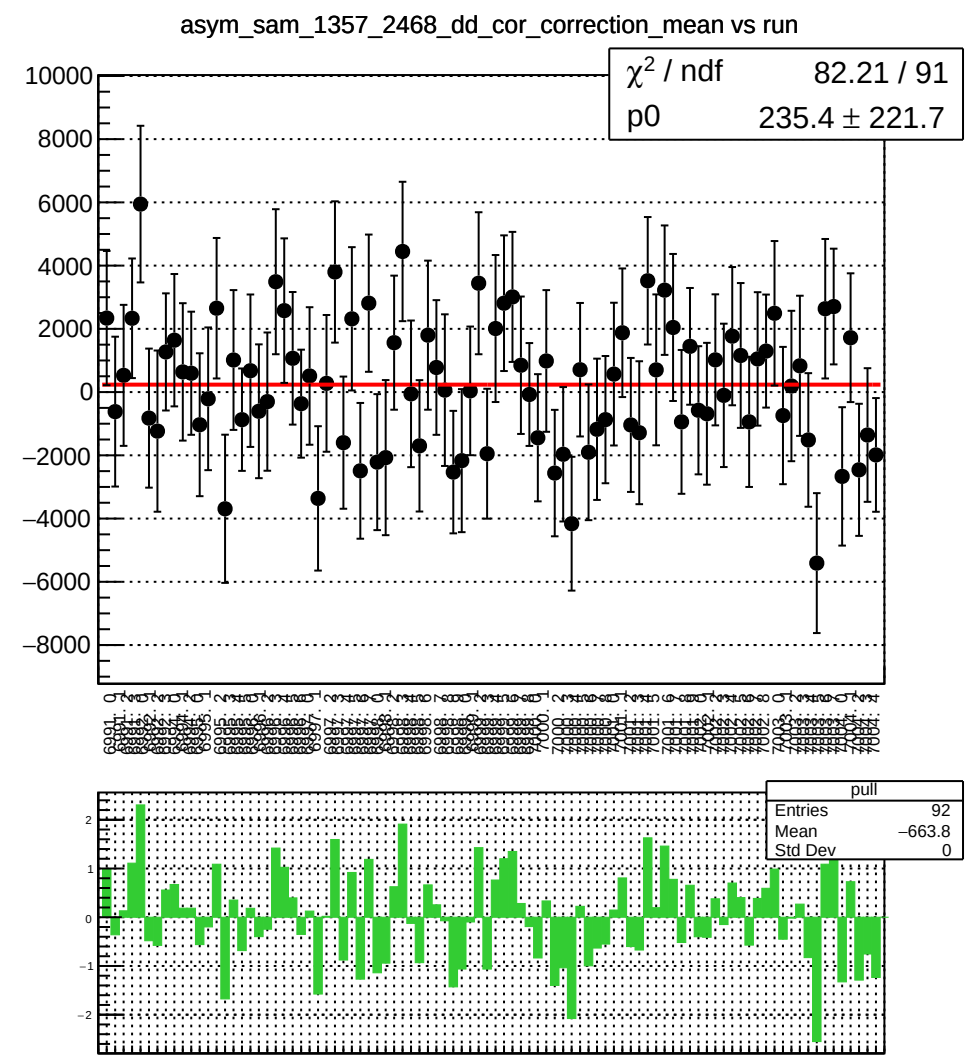

pull1D
Entries 92
Mean 0.004674
Std Dev 0.9453

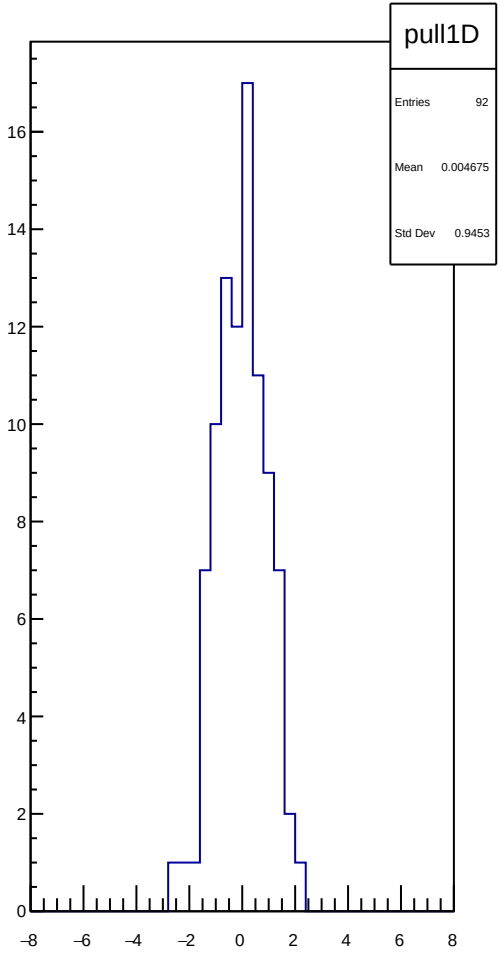

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 4901 / 91
p0 208 ± 0.1567
240
230
220
210
200
190

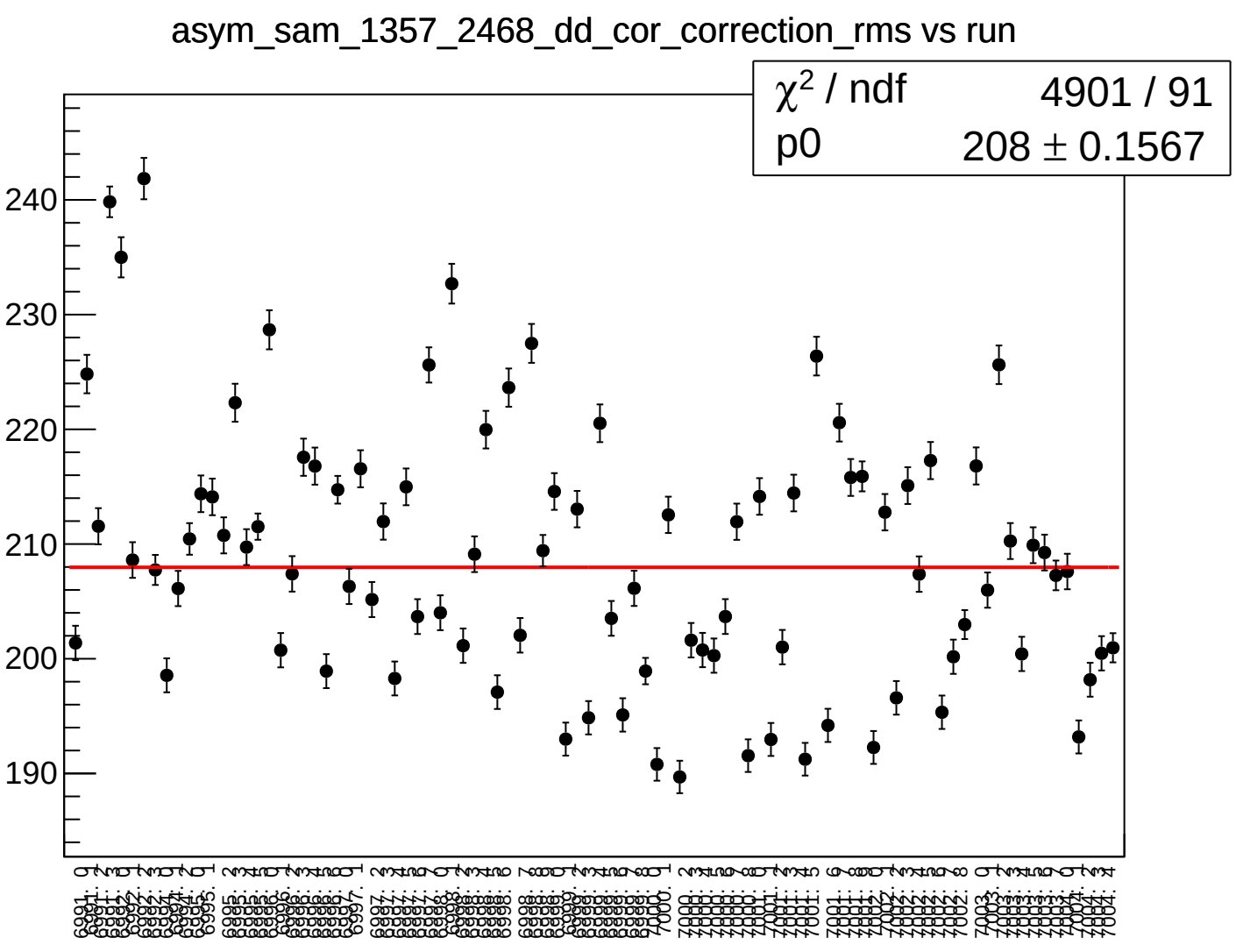

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 102.8 / 91
p0 3.47 ± 20.79
pull
Entries 92
Mean −922.9
Std Dev 0

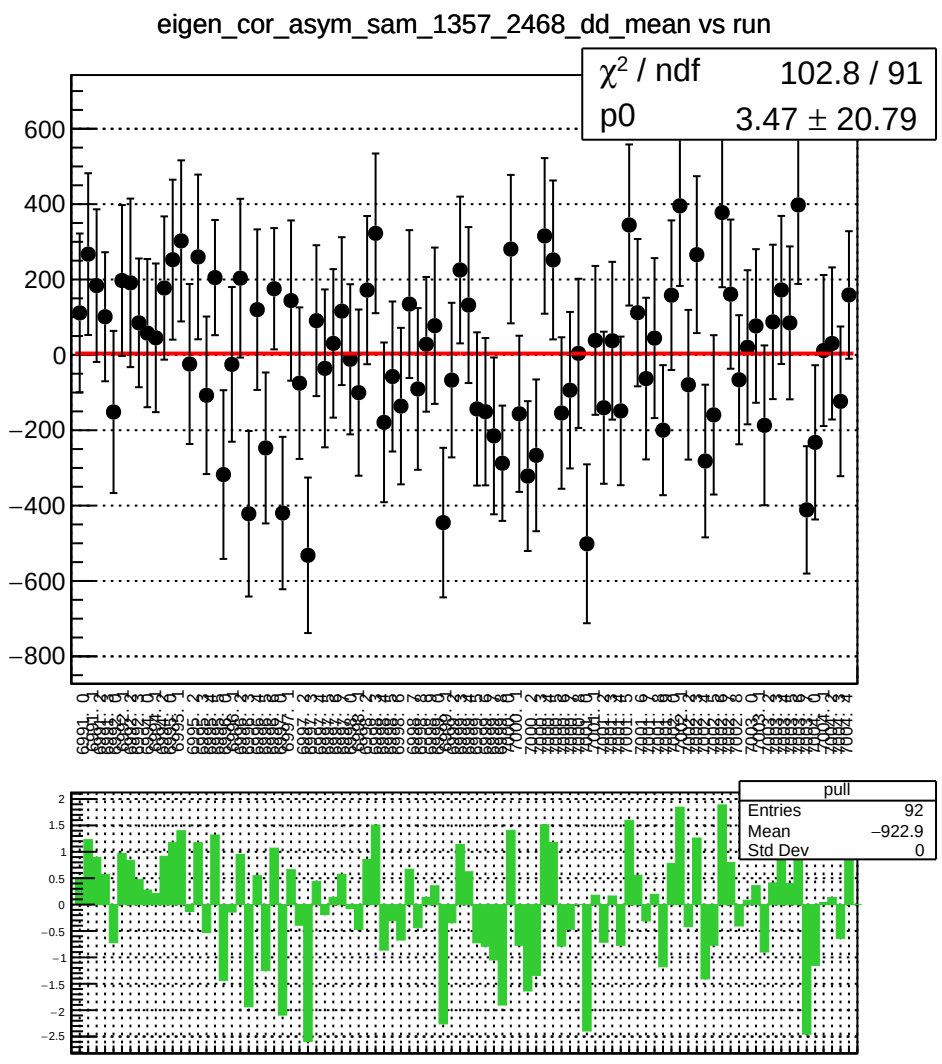

pull1D
Entries 92
Mean 0.00269
Std Dev 1.057

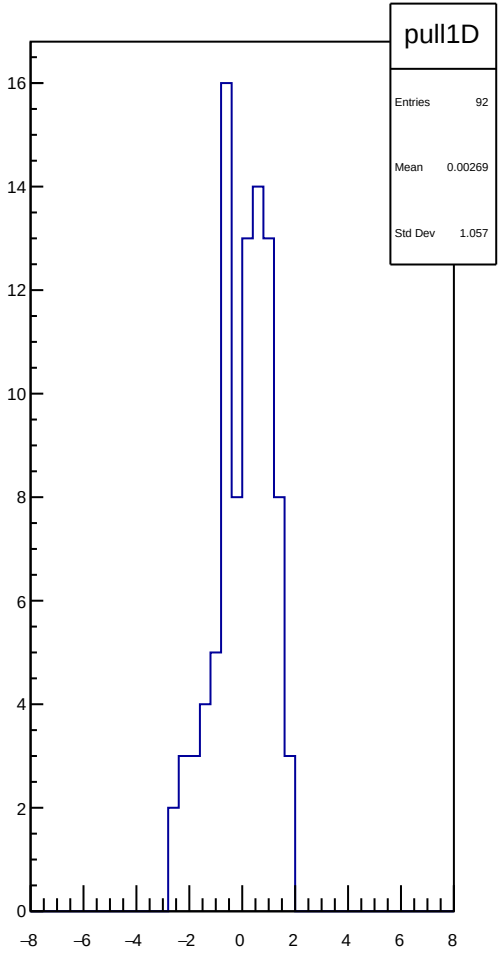

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2321 / 91
p0 19.52 ± 0.0147
22
21.5
21
20.5
20
19.5
19
18.5
18

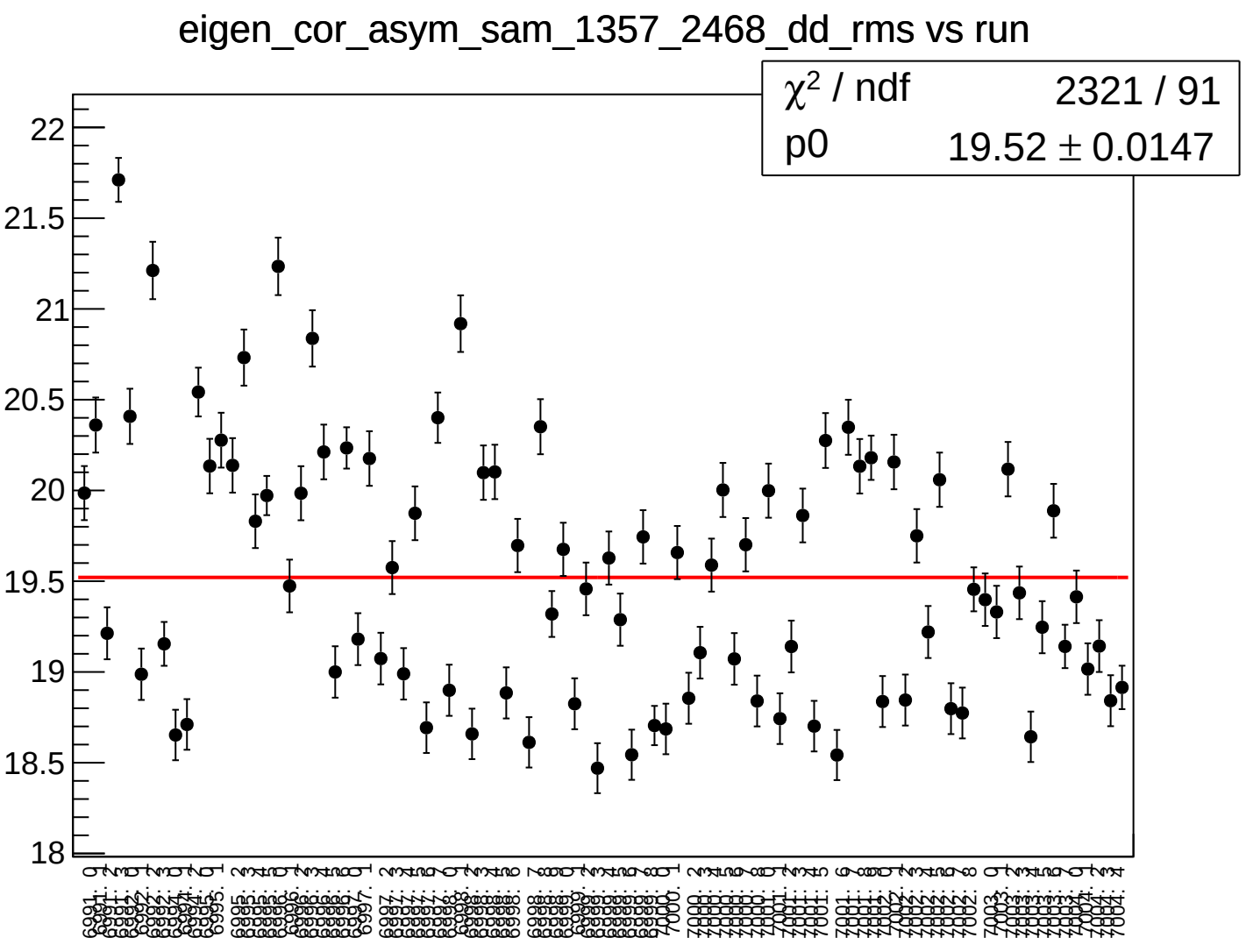

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 82.21 / 91
p0 235.4 ± 221.7
pull
Entries 92
Mean −663.8
Std Dev 0

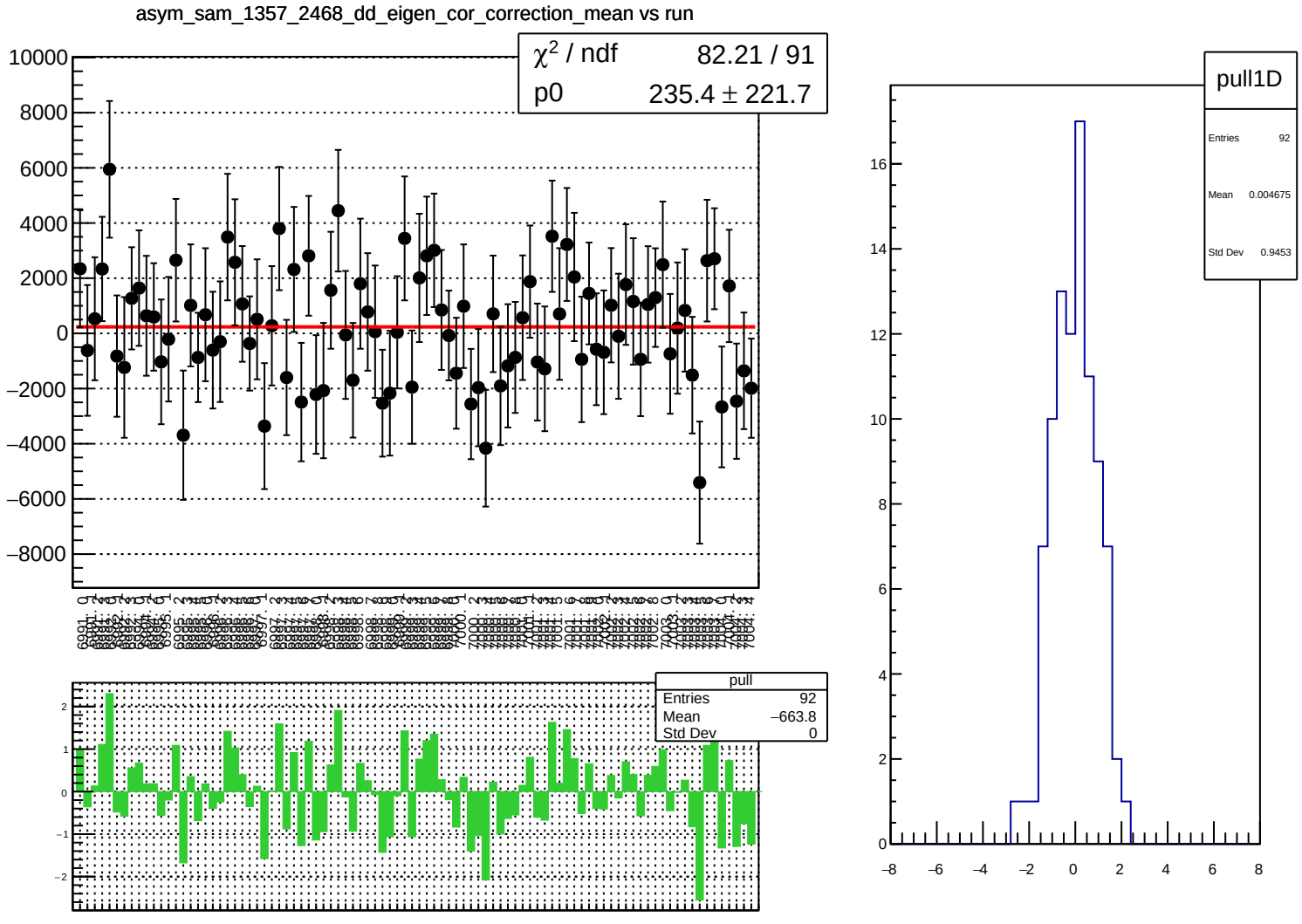

pull1D
Entries 92
Mean 0.004675
Std Dev 0.9453

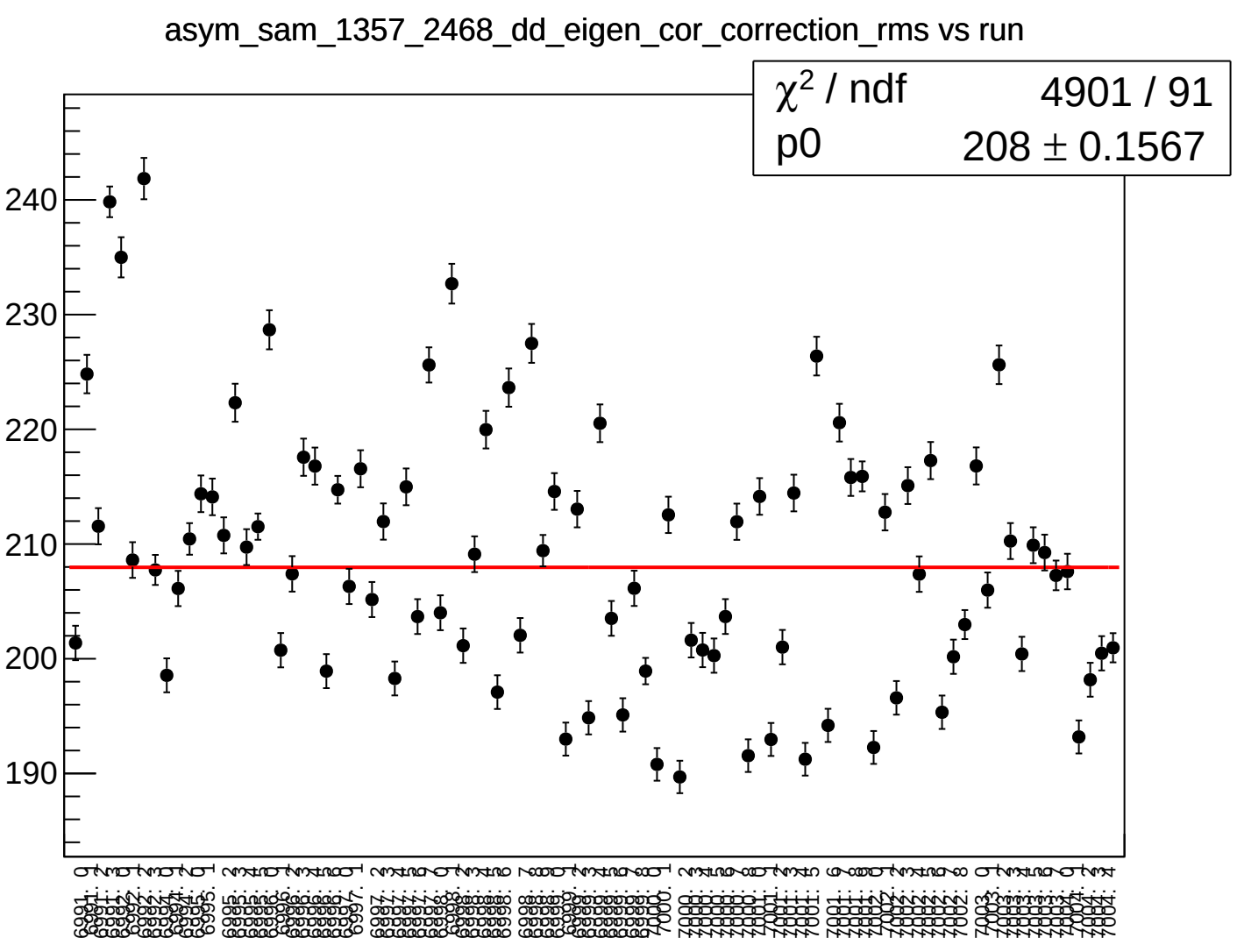

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 4901 / 91
p0 208 ± 0.1567
240
230
220
210
200
190

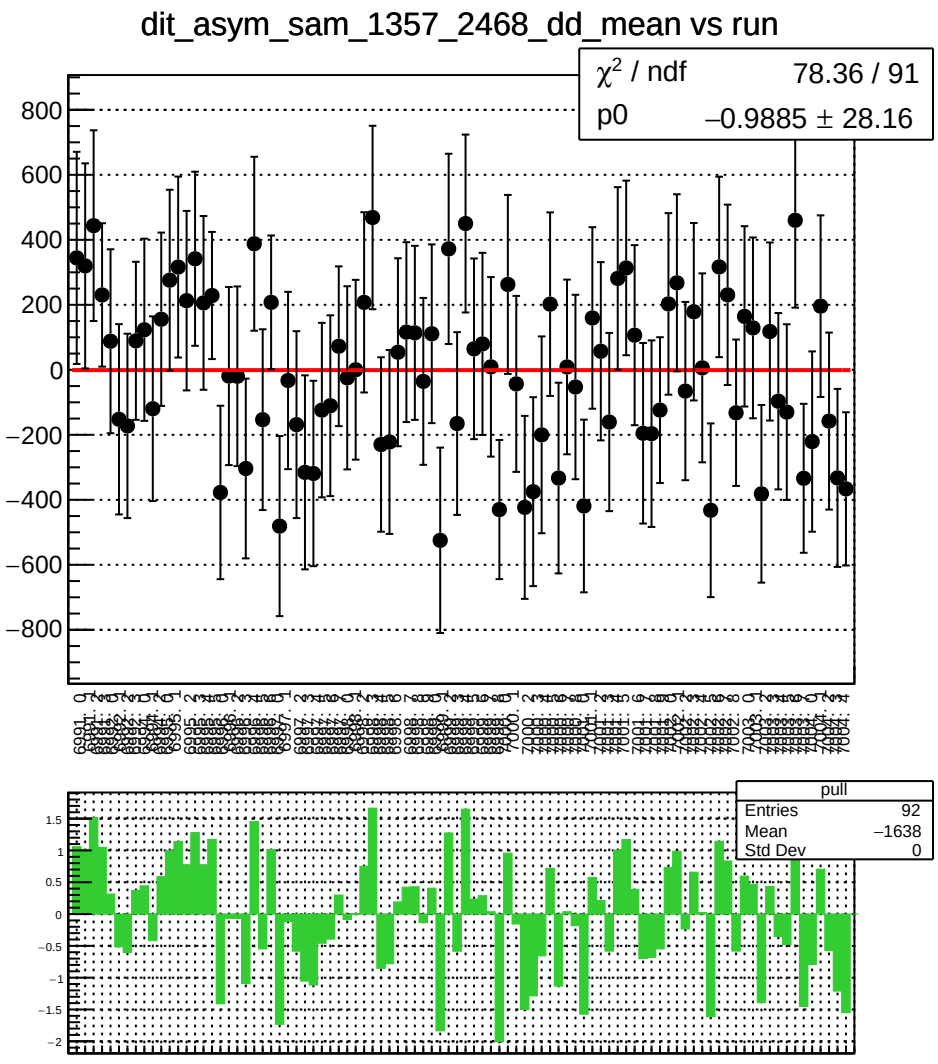

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 102.8 / 91
p0 3.47 ± 20.79
pull
Entries 92
Mean −922.9
Std Dev 0

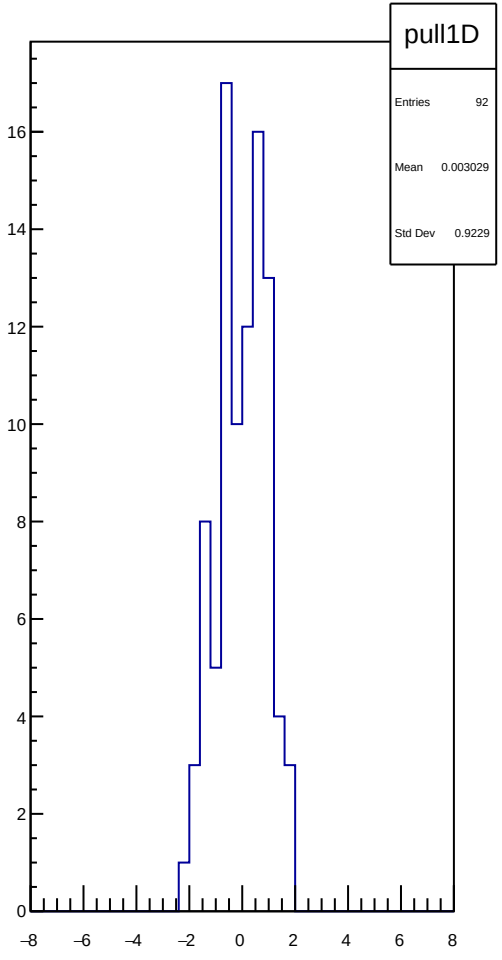

pull1D
Entries 92
Mean 0.00269
Std Dev 1.057

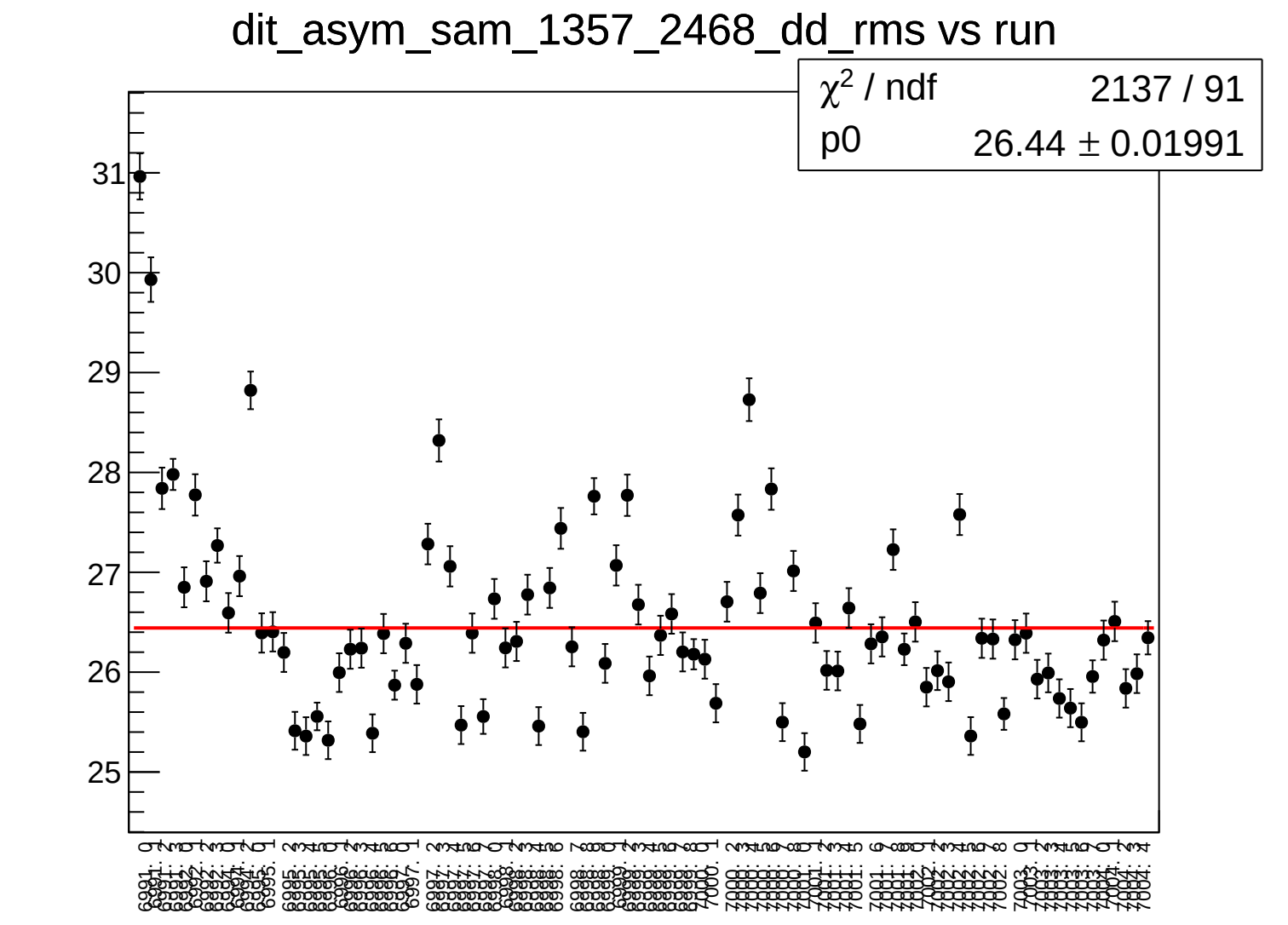

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2321 / 91
p0 19.52 ± 0.0147
22
21.5
21
20.5
20
19.5
19
18.5
18

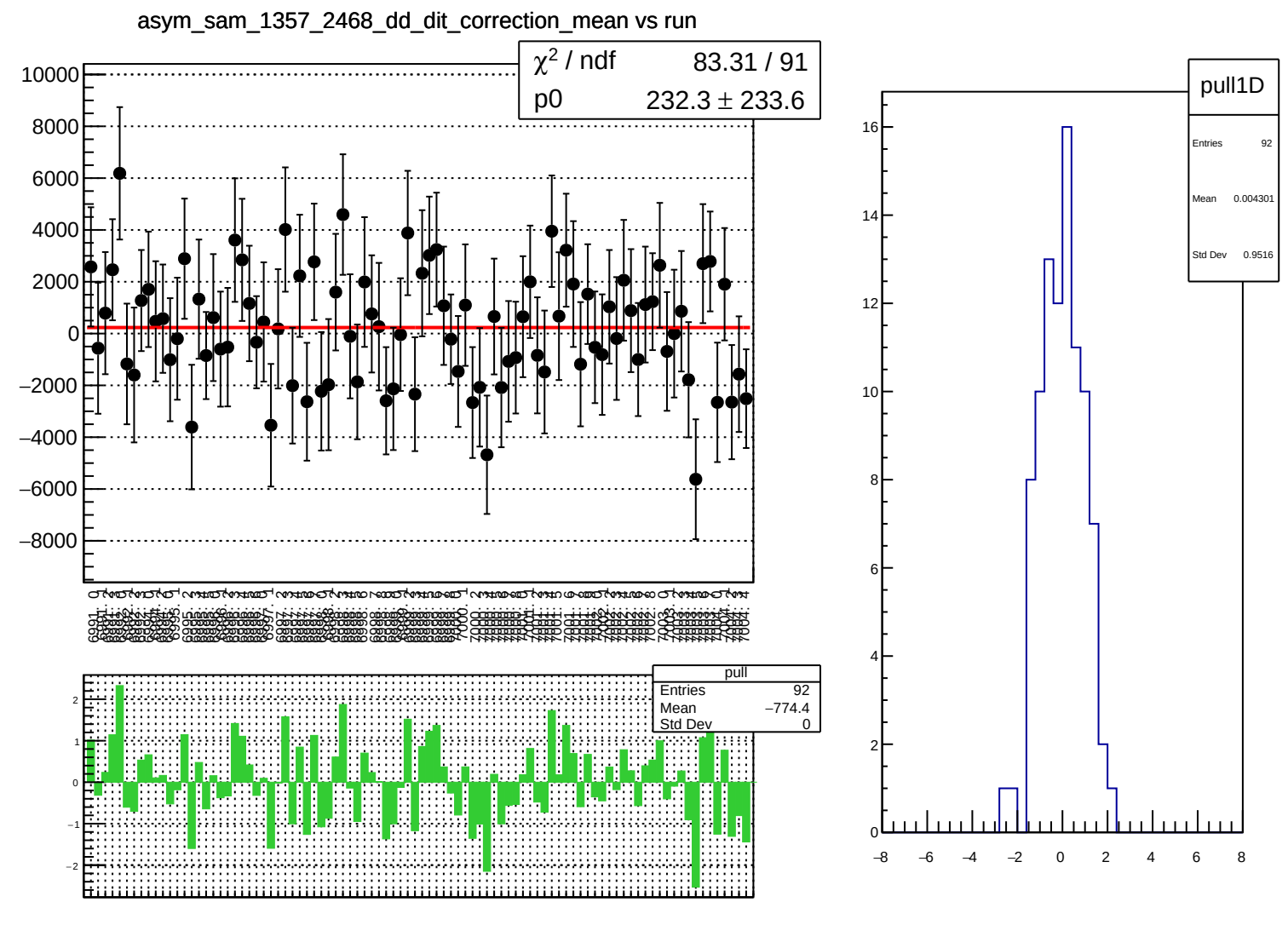

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.21 / 91
p0 235.4 ± 221.7
pull
Entries 92
Mean −663.8
Std Dev 0
pull1D
Entries 92
Mean 0.004675
Std Dev 0.9453

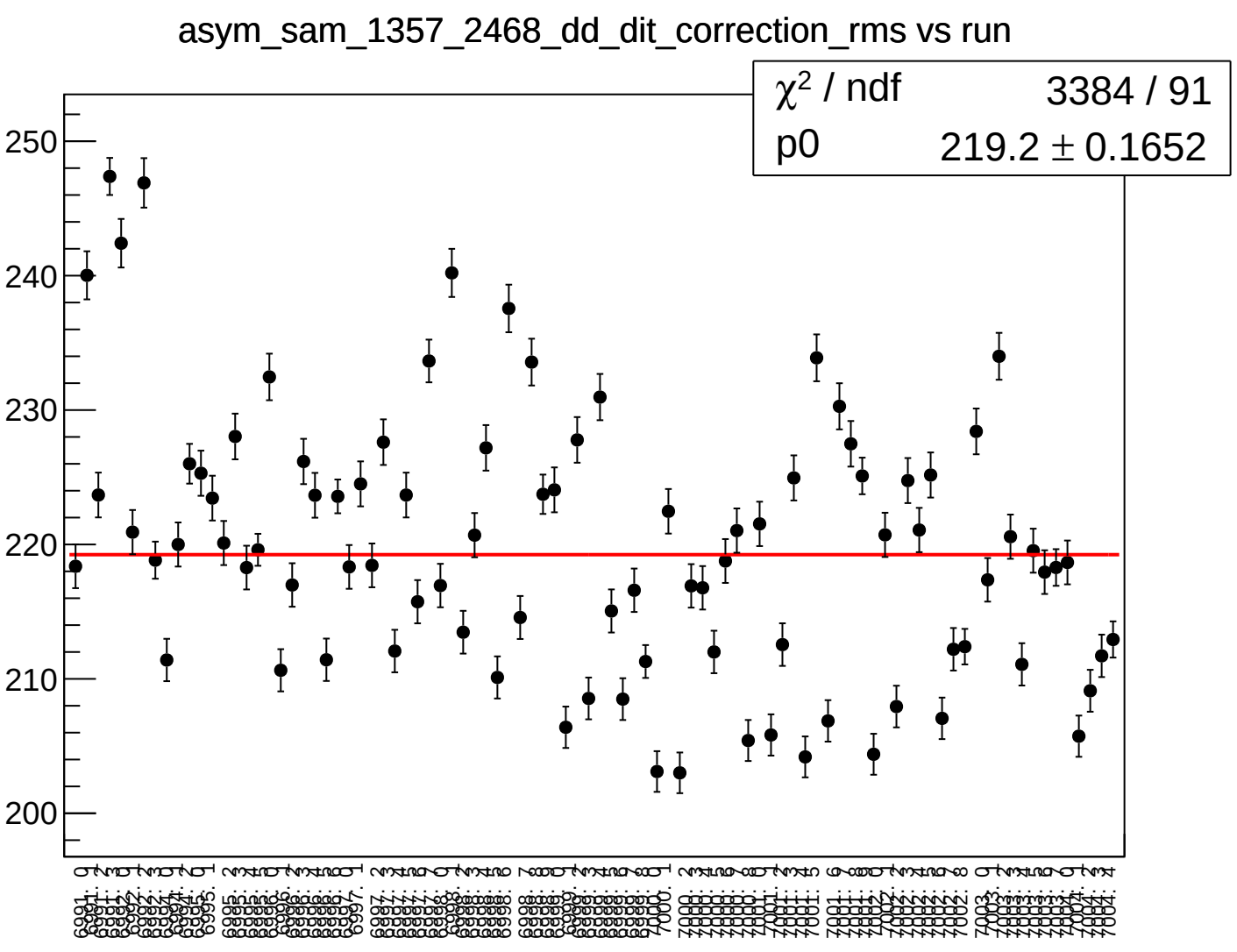

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 4901 / 91
p0 208 ± 0.1567
240
230
220
210
200
190

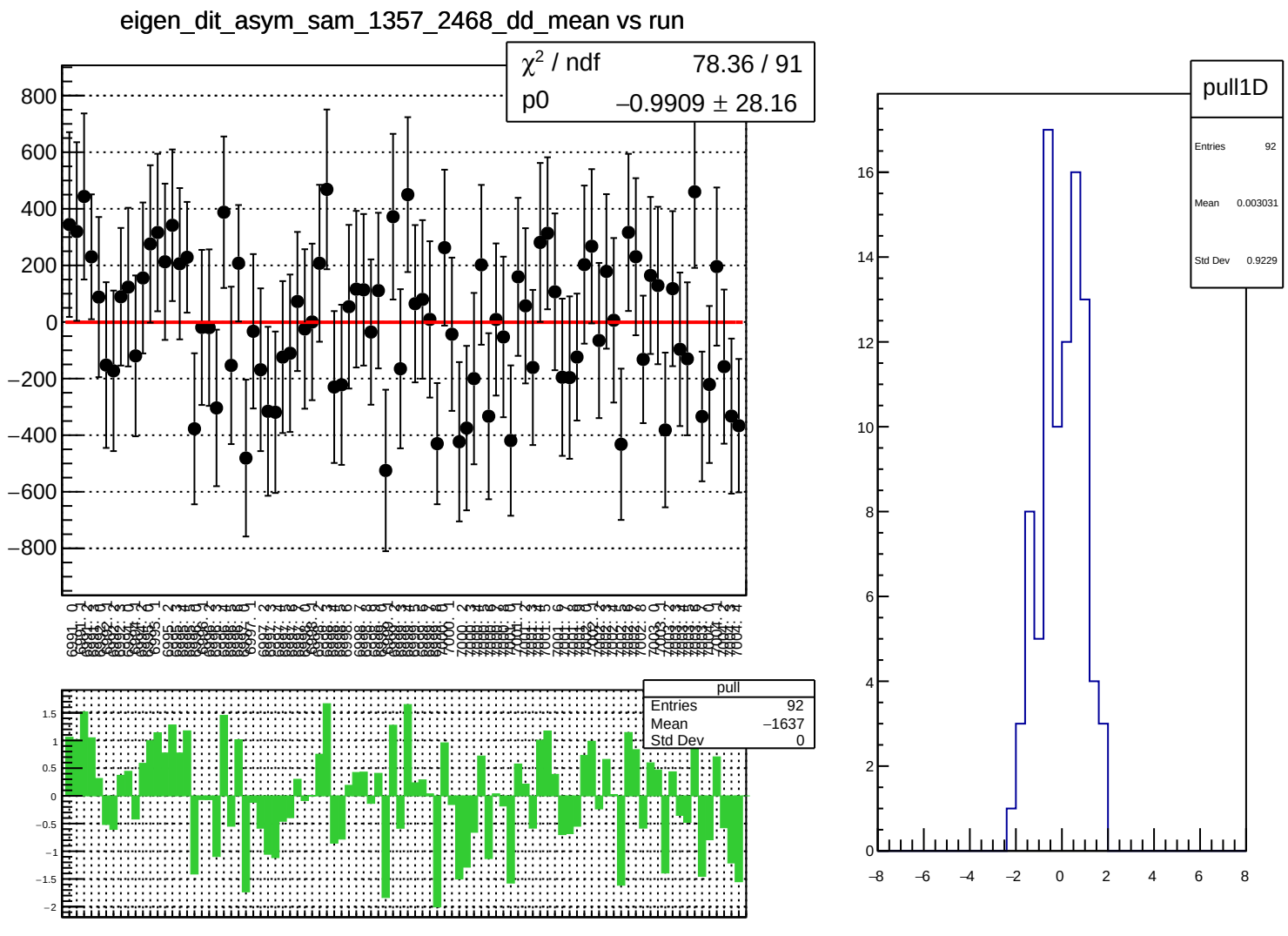

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 78.36 / 91
p0 −0.9885 ± 28.16
pull
Entries 92
Mean −1638
Std Dev 0

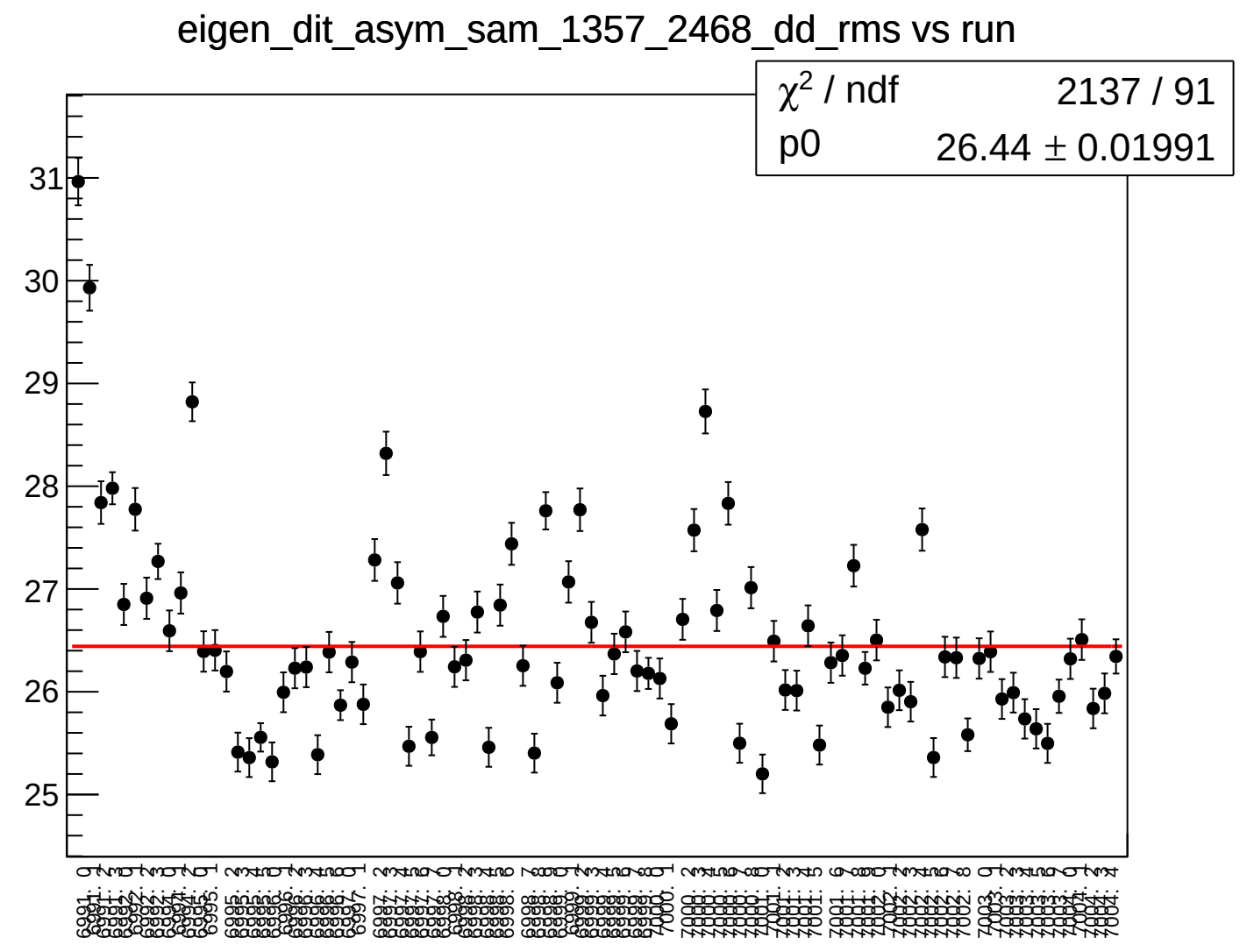

pull1D
Entries 92
Mean 0.003029
Std Dev 0.9229

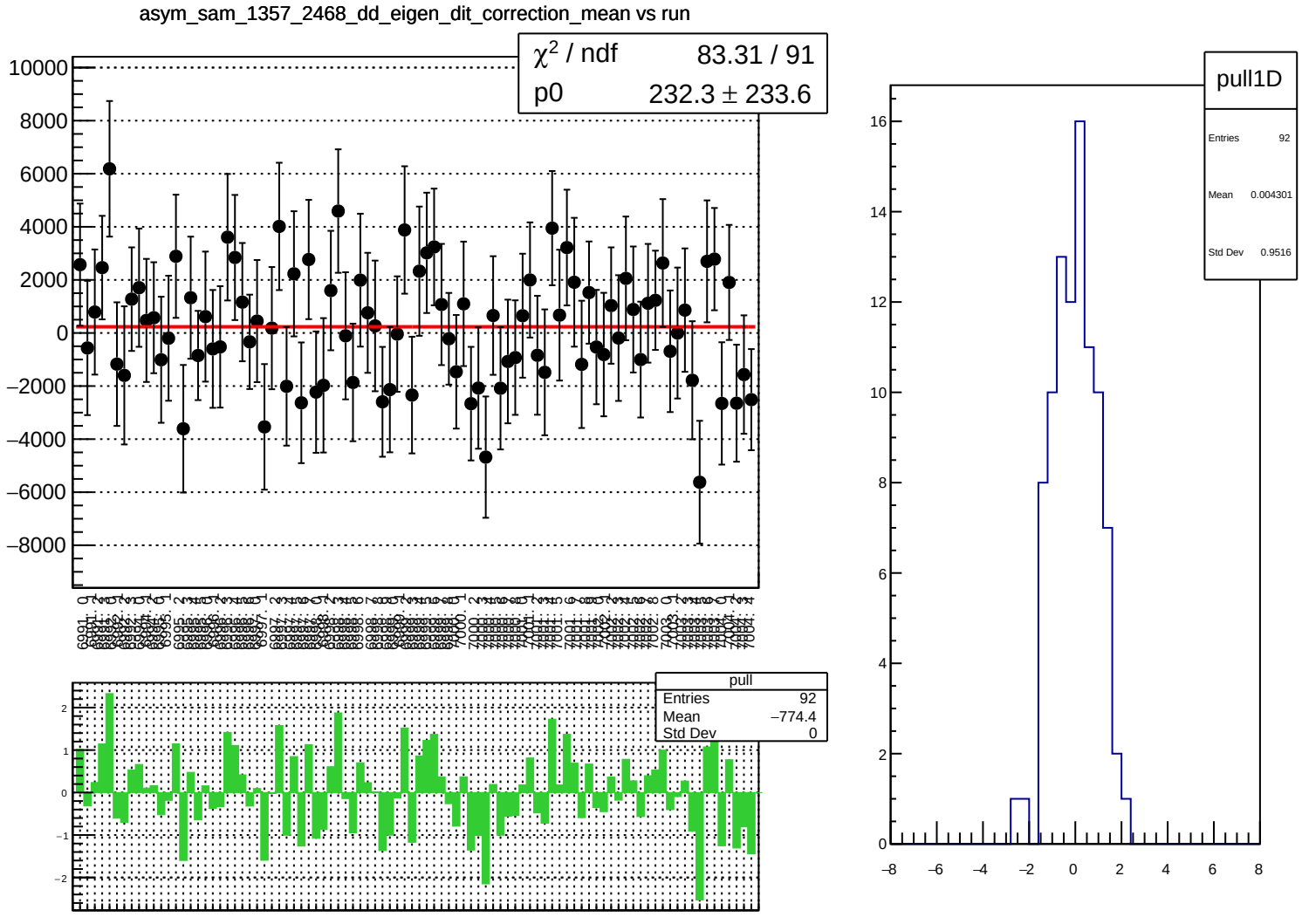

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2137 / 91
p0 26.44 ± 0.01991
31
30
29
28
27
26
25

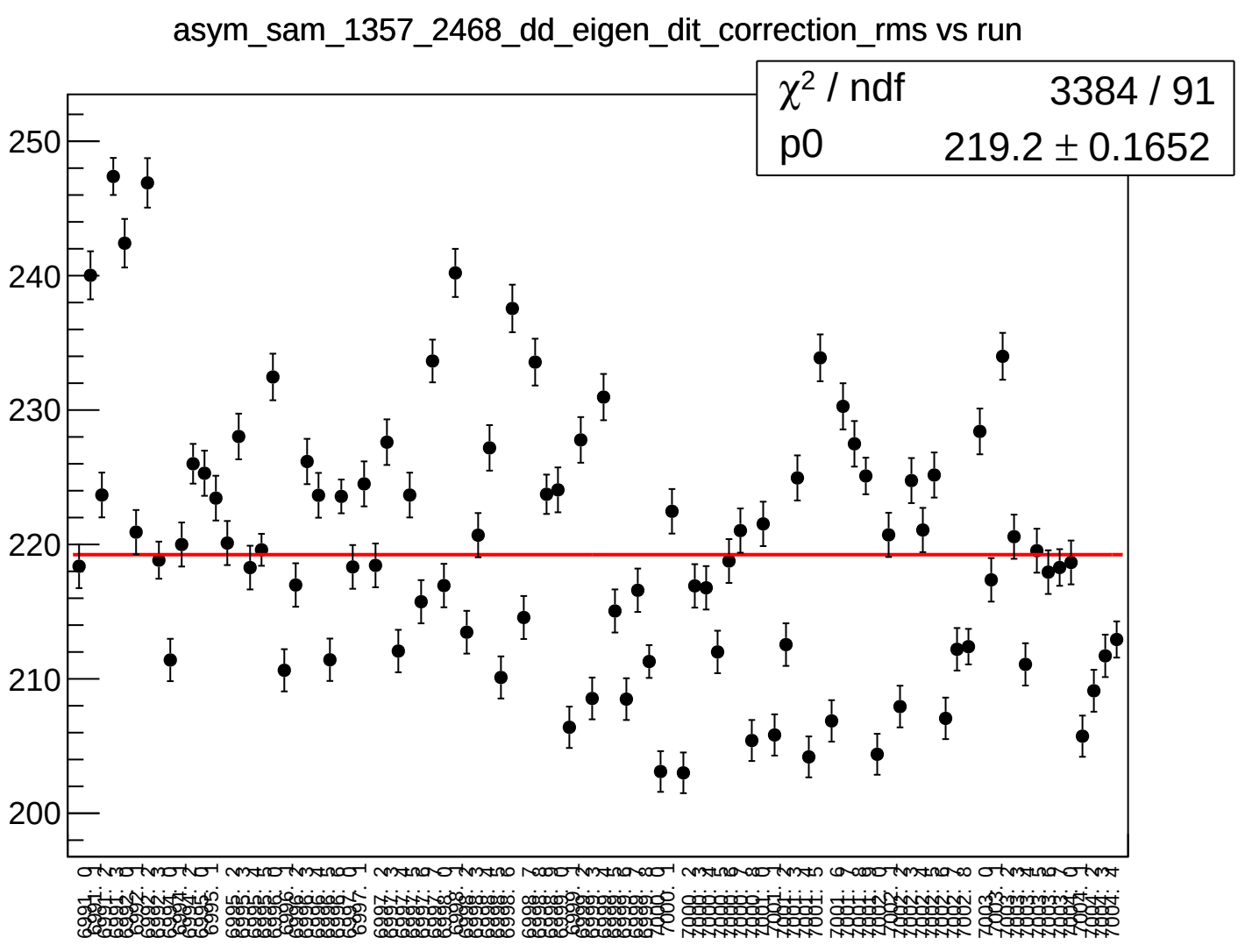

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 83.31 / 91
p0 232.3 ± 233.6
pull
Entries 92
Mean −774.4
Std Dev 0
pull1D
Entries 92
Mean 0.004301
Std Dev 0.9516

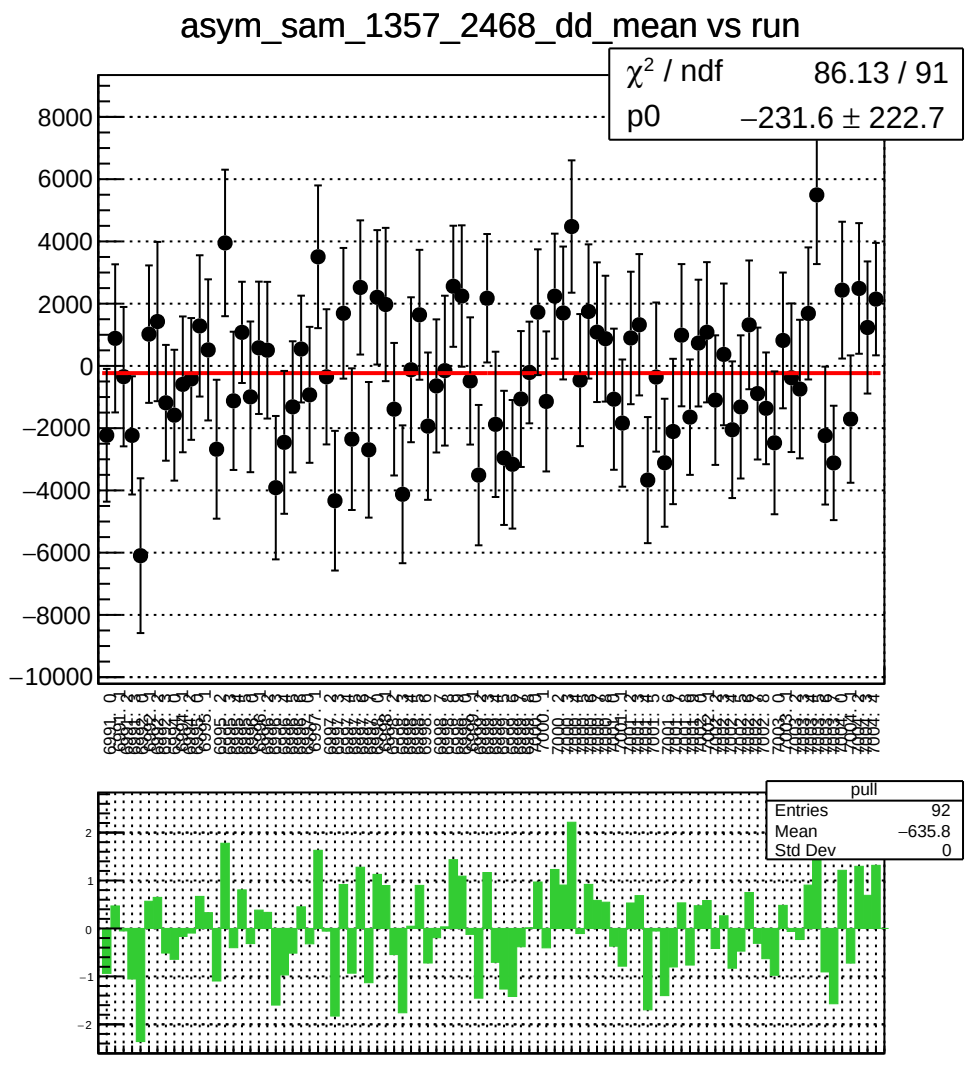

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 3384 / 91
p0 219.2 ± 0.1652
250
240
230
220
210
200

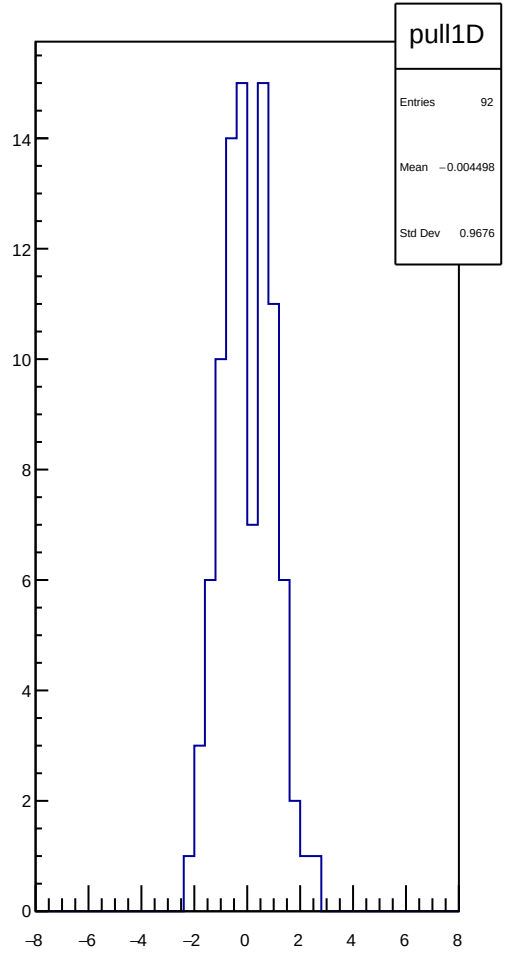

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 78.36 / 91
p0 −0.9909 ± 28.16
pull
Entries 92
Mean −1637
Std Dev 0
pull1D
Entries 92
Mean 0.003031
Std Dev 0.9229

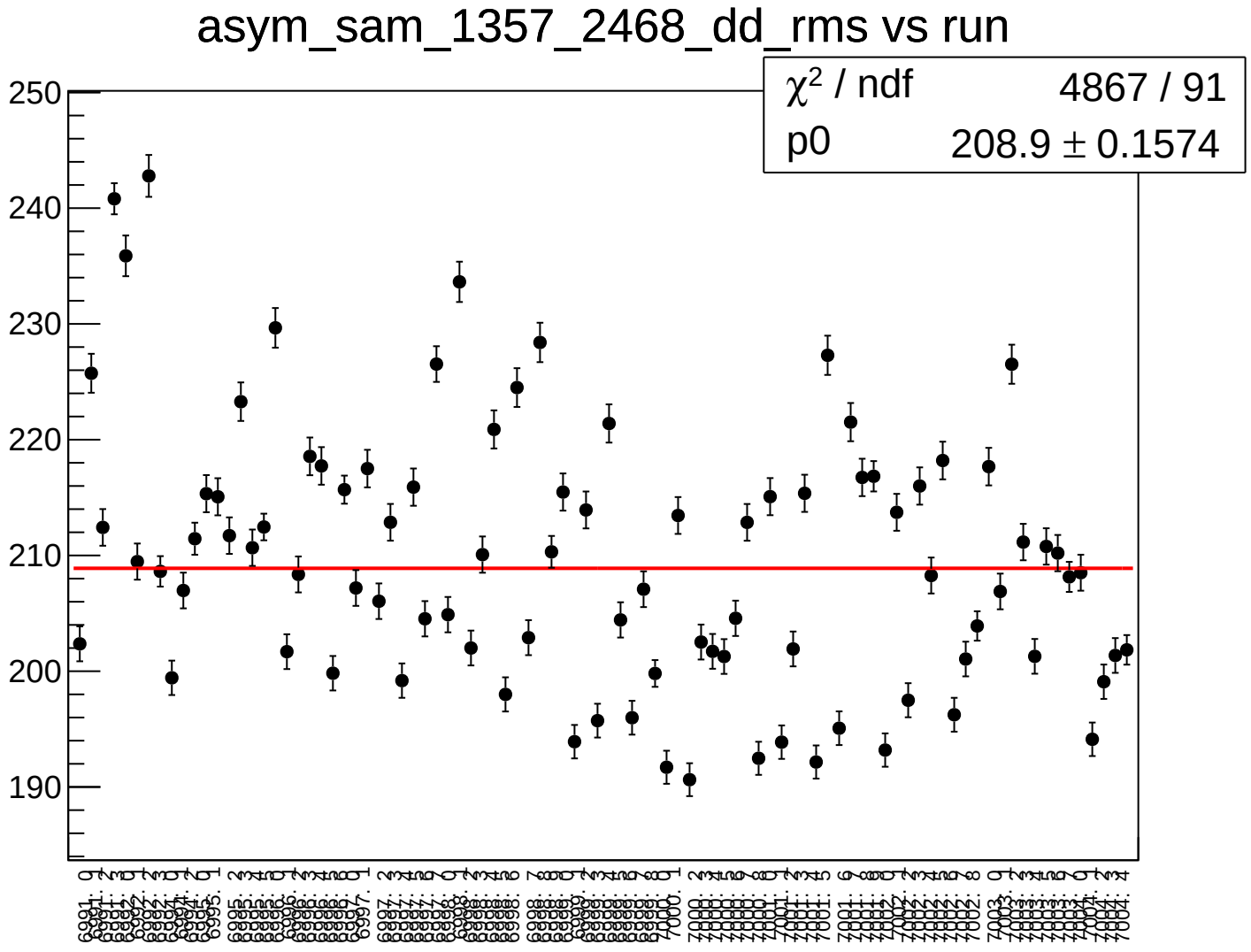

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 2137 / 91
p0 26.44 ± 0.01991
31
30
29
28
27
26
25

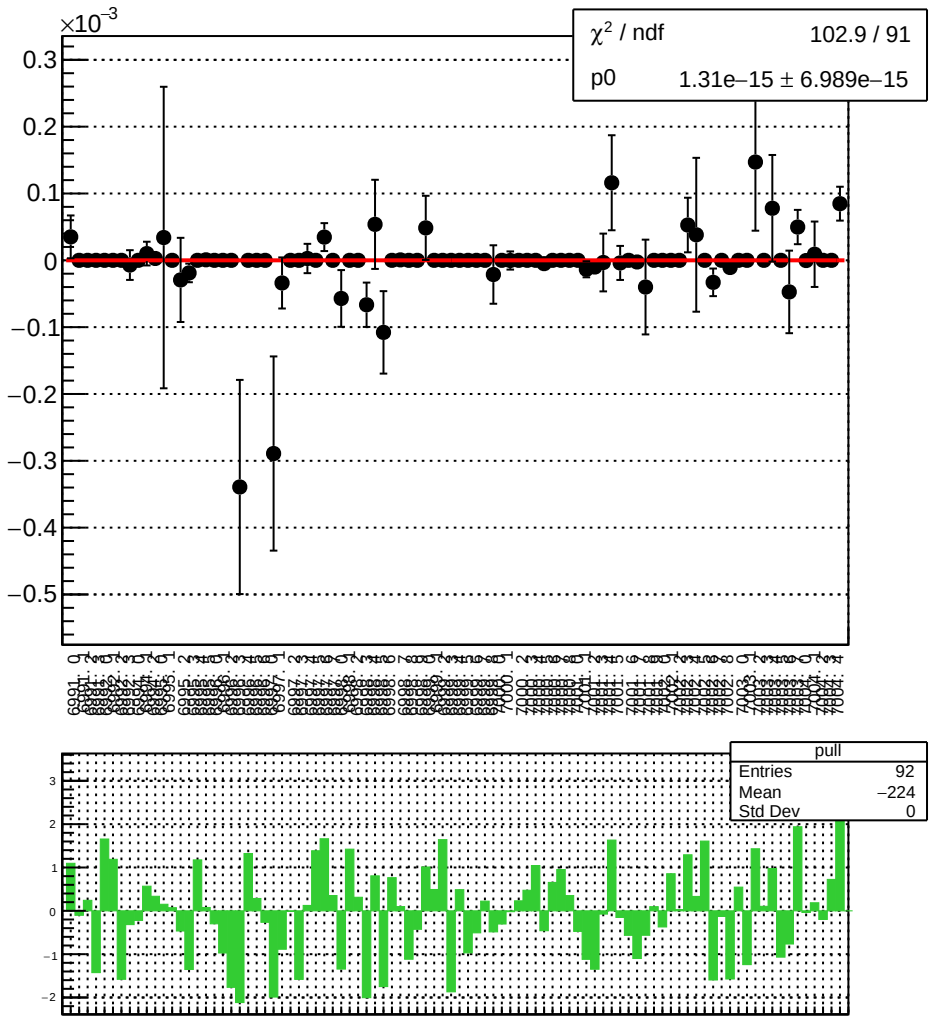

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.31 / 91
p0 232.3 ± 233.6
pull
Entries 92
Mean −774.4
Std Dev 0
pull1D
Entries 92
Mean 0.004301
Std Dev 0.9516

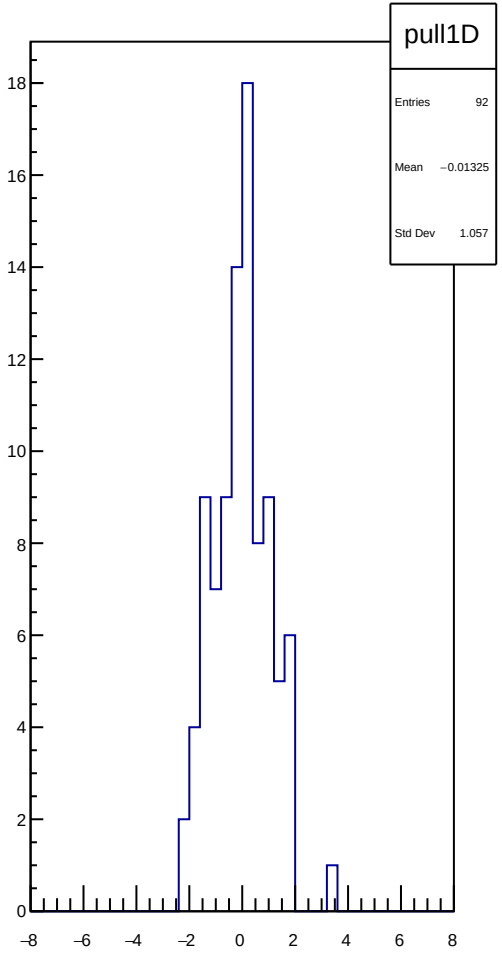

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 3384 / 91
p0 219.2 ± 0.1652
250
240
230
220
210
200

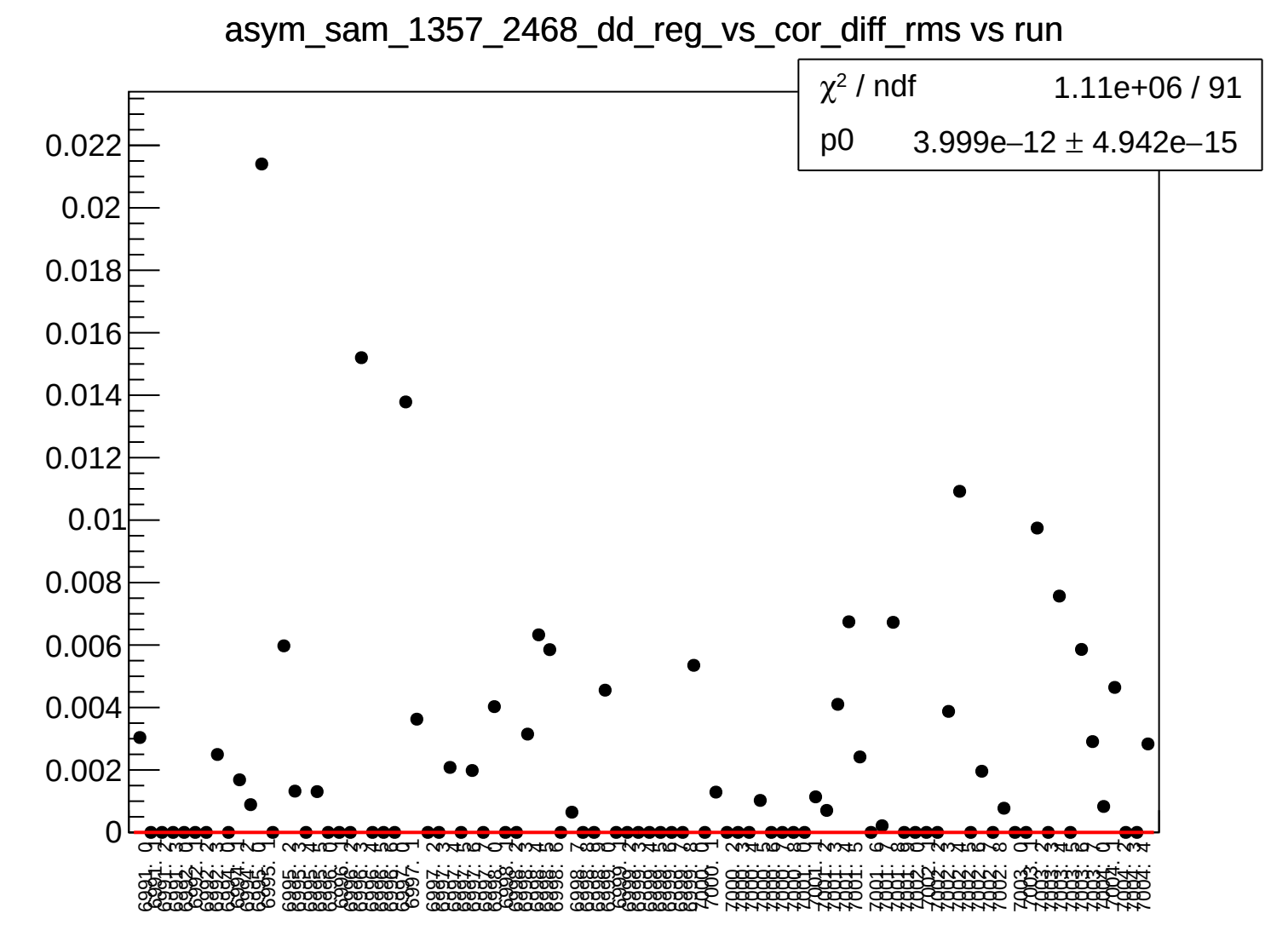

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 86.13 / 91
p0 −231.6 ± 222.7
pull
Entries 92
Mean −635.8
Std Dev 0

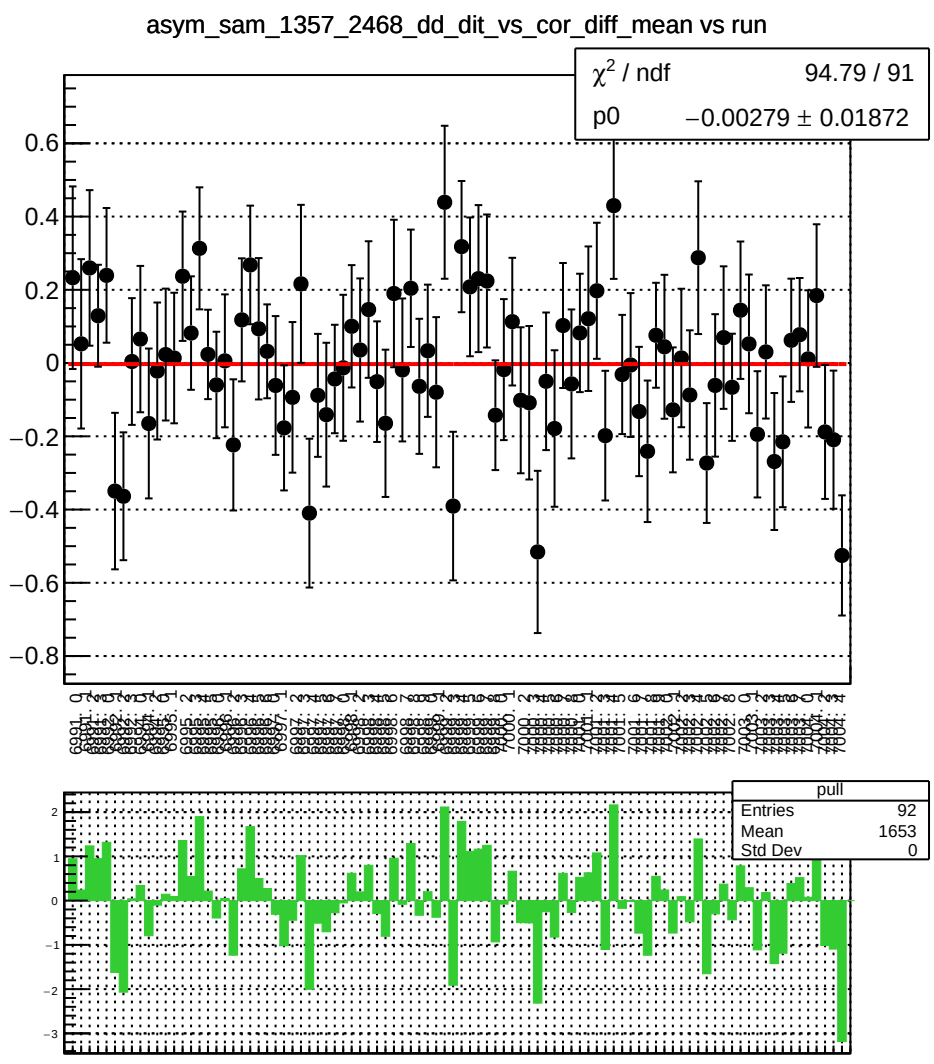

pull1D
Entries 92
Mean −0.004498
Std Dev 0.9676

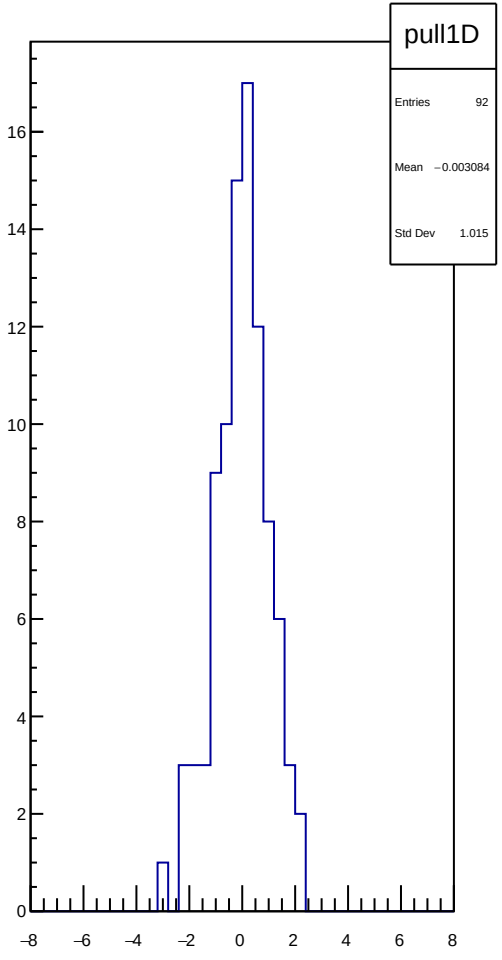

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4867 / 91
p0 208.9 ± 0.1574
250
240
230
220
210
200
190

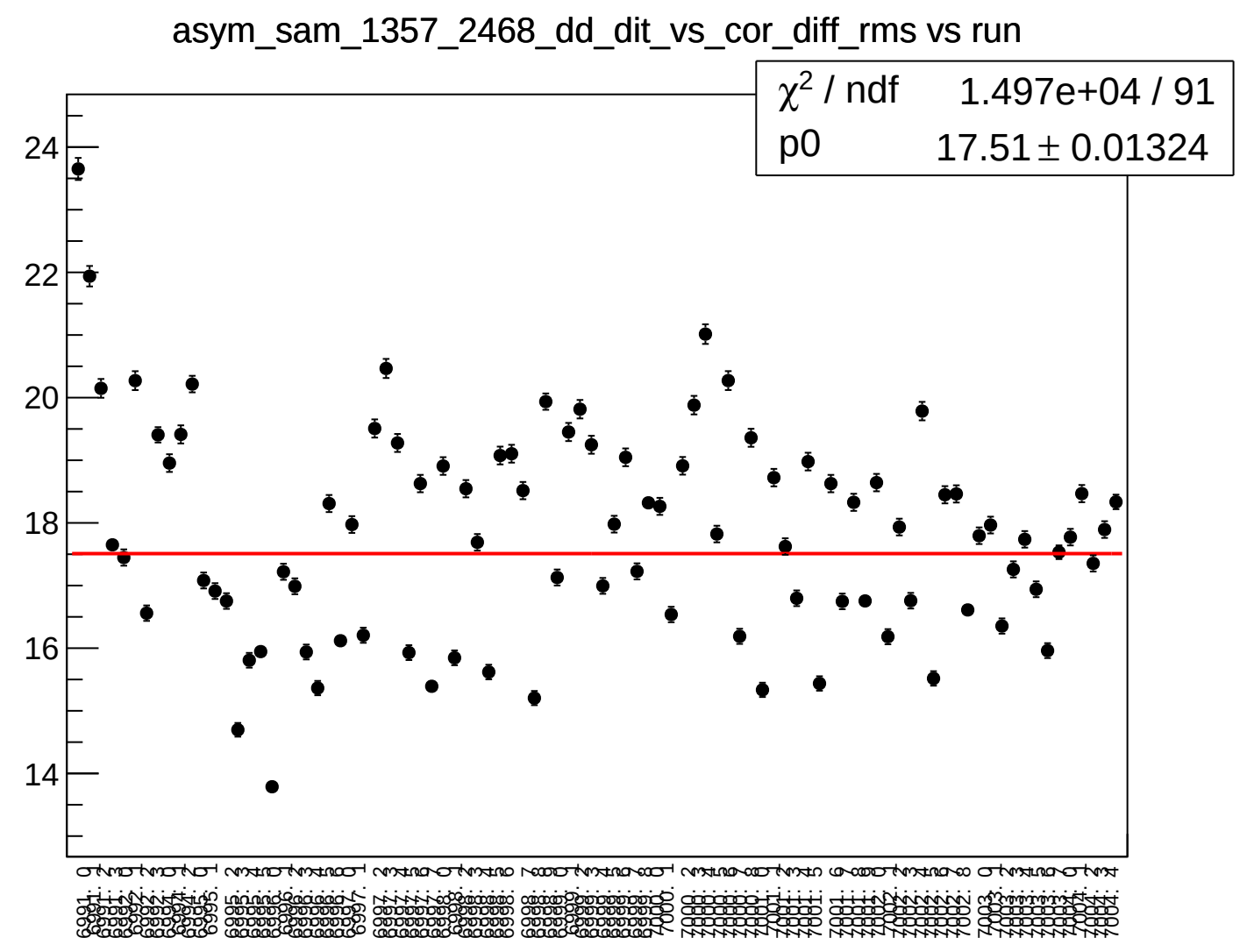

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 91
p0 1.31e−15 ± 6.989e−15
pull
Entries 92
Mean −224
Std Dev 0

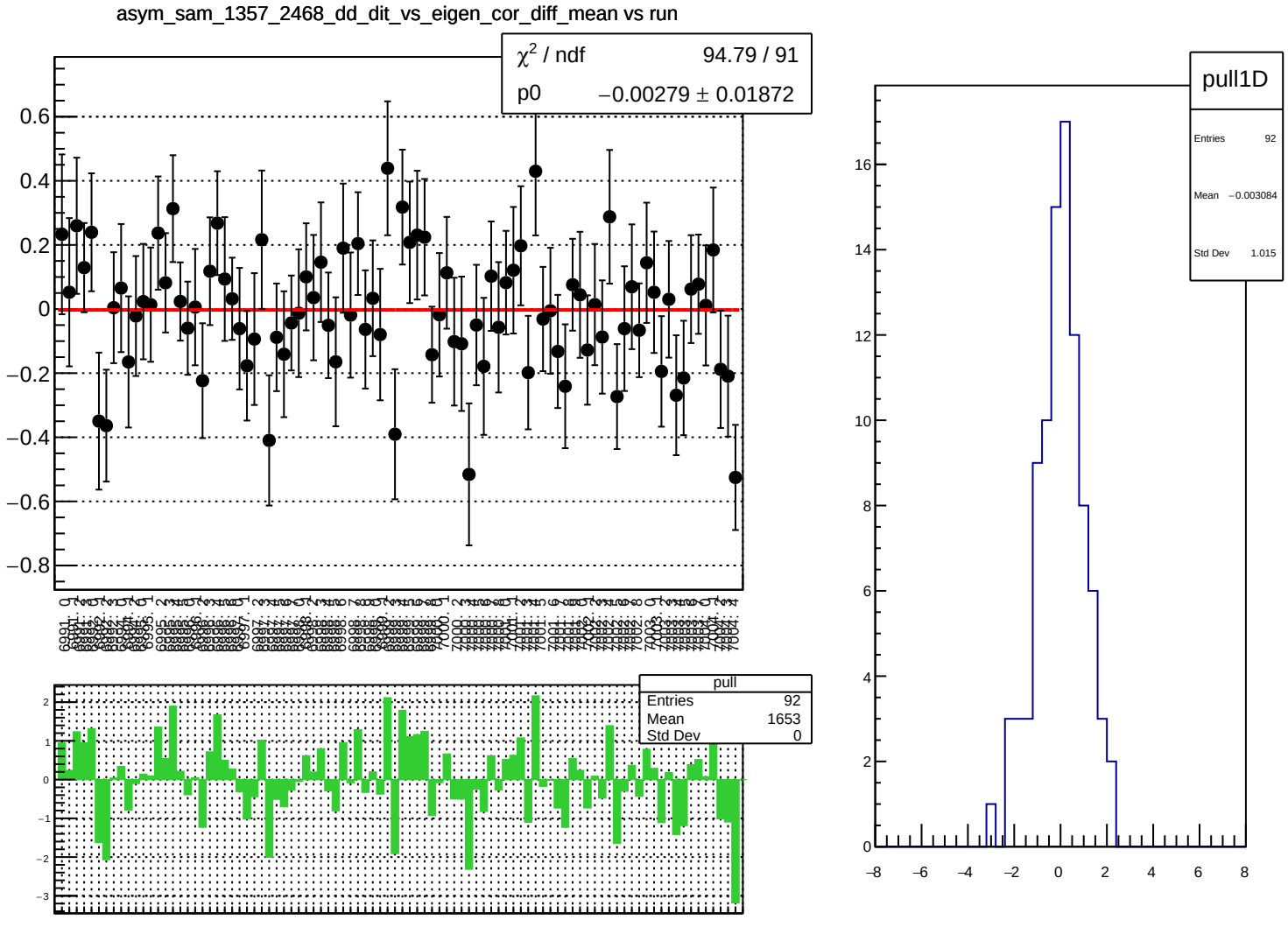

pull1D
Entries 92
Mean −0.01325
Std Dev 1.057

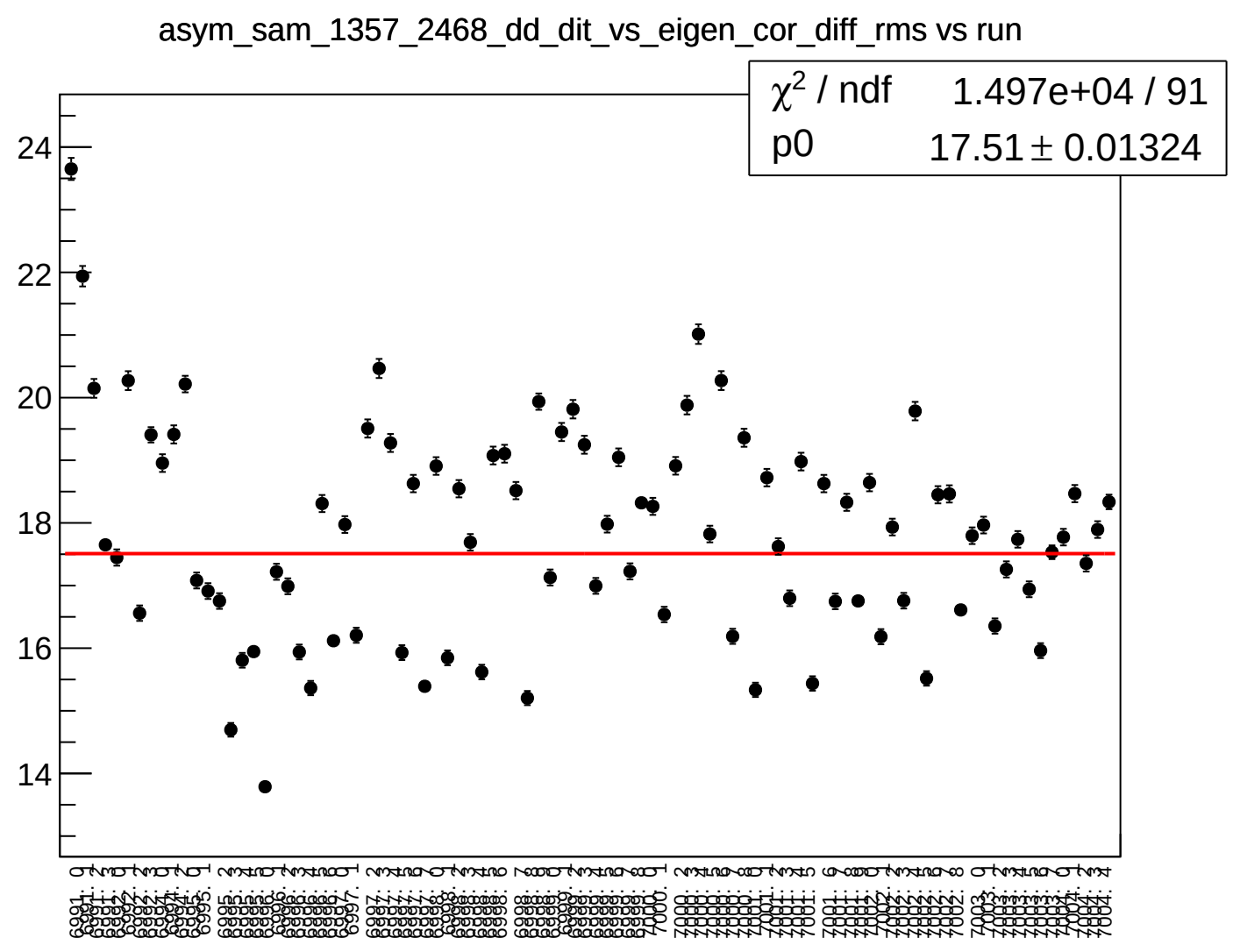

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.11e+06 / 91
p0 3.999e−12 ± 4.942e−15
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

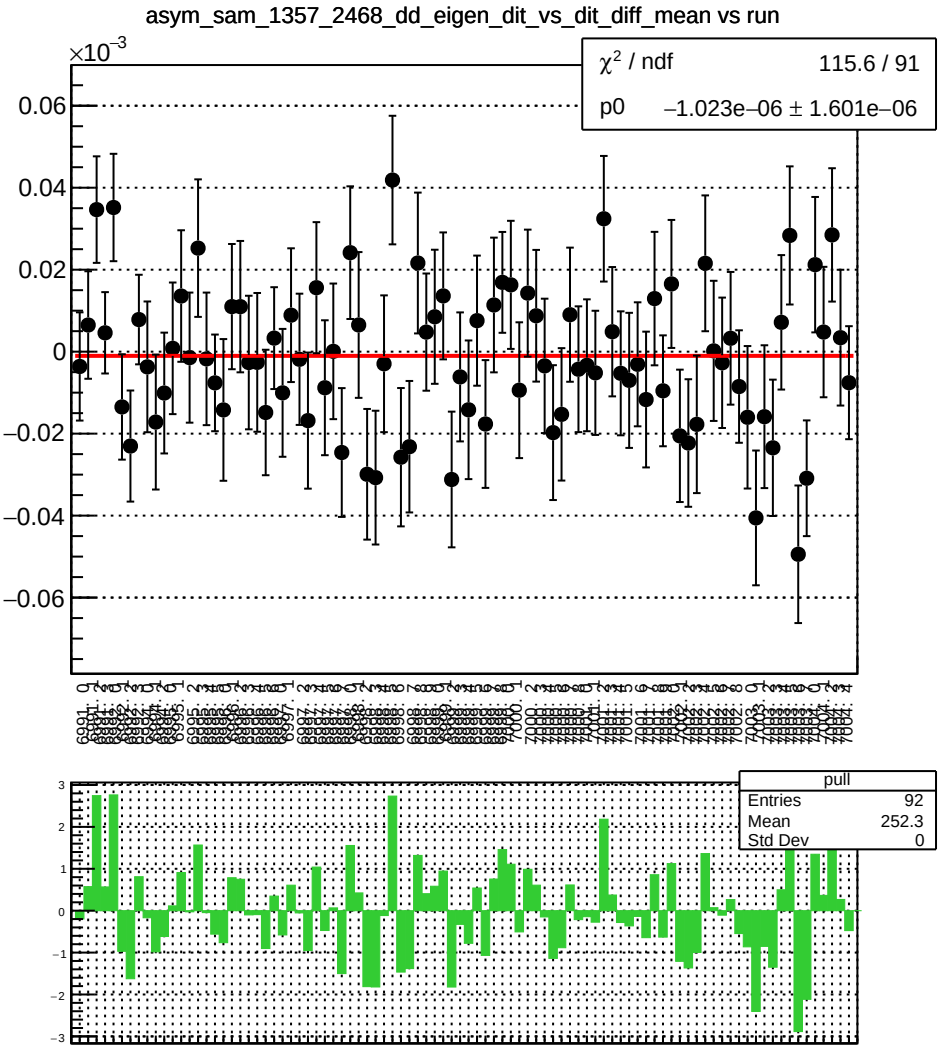

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.79 / 91
p0 −0.00279 ± 0.01872
pull
Entries 92
Mean 1653
Std Dev 0

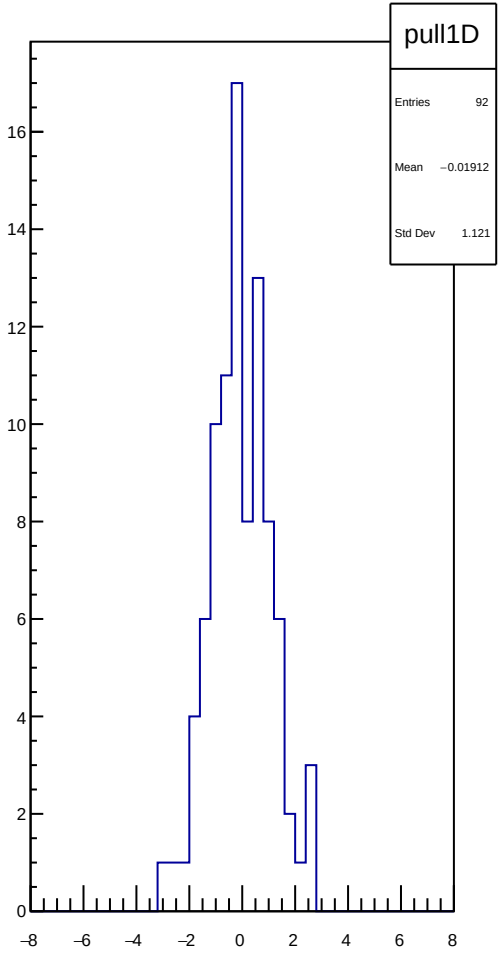

pull1D
Entries 92
Mean −0.003084
Std Dev 1.015

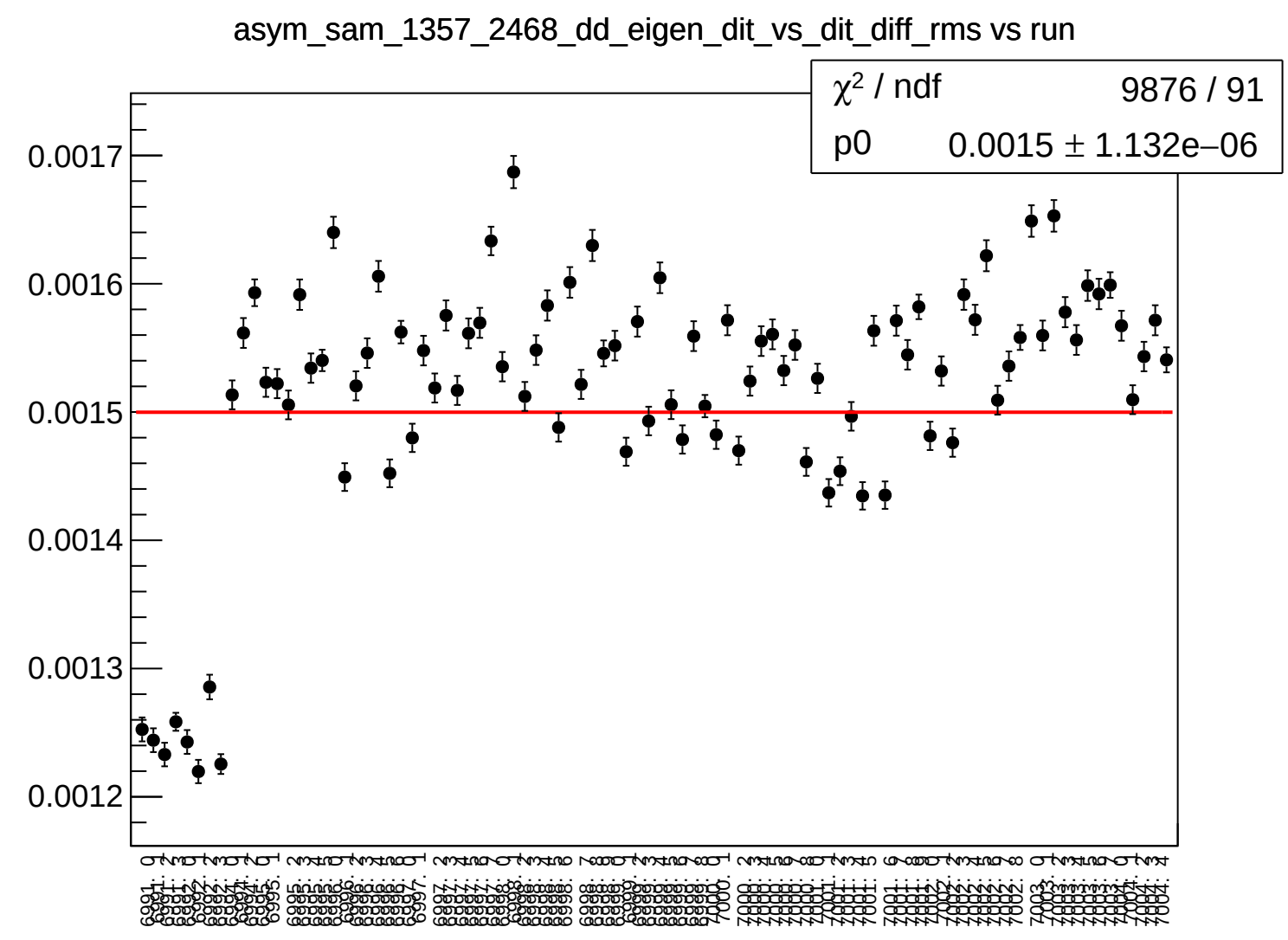

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.497e+04 / 91
p0 17.51 ± 0.01324
24
22
20
18
16
14

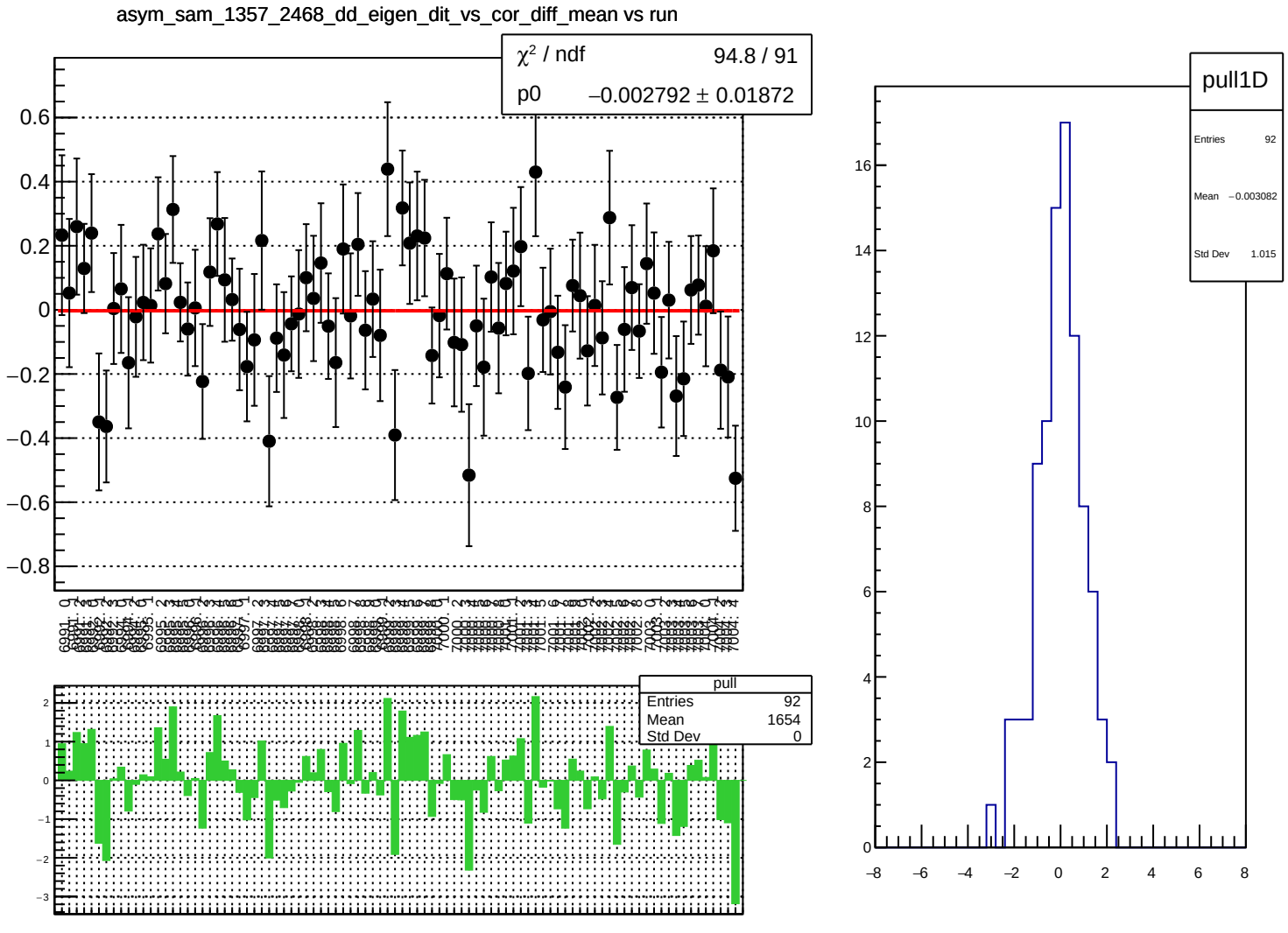

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.79 / 91
p0 −0.00279 ± 0.01872
pull
Entries 92
Mean 1653
Std Dev 0
pull1D
Entries 92
Mean −0.003084
Std Dev 1.015

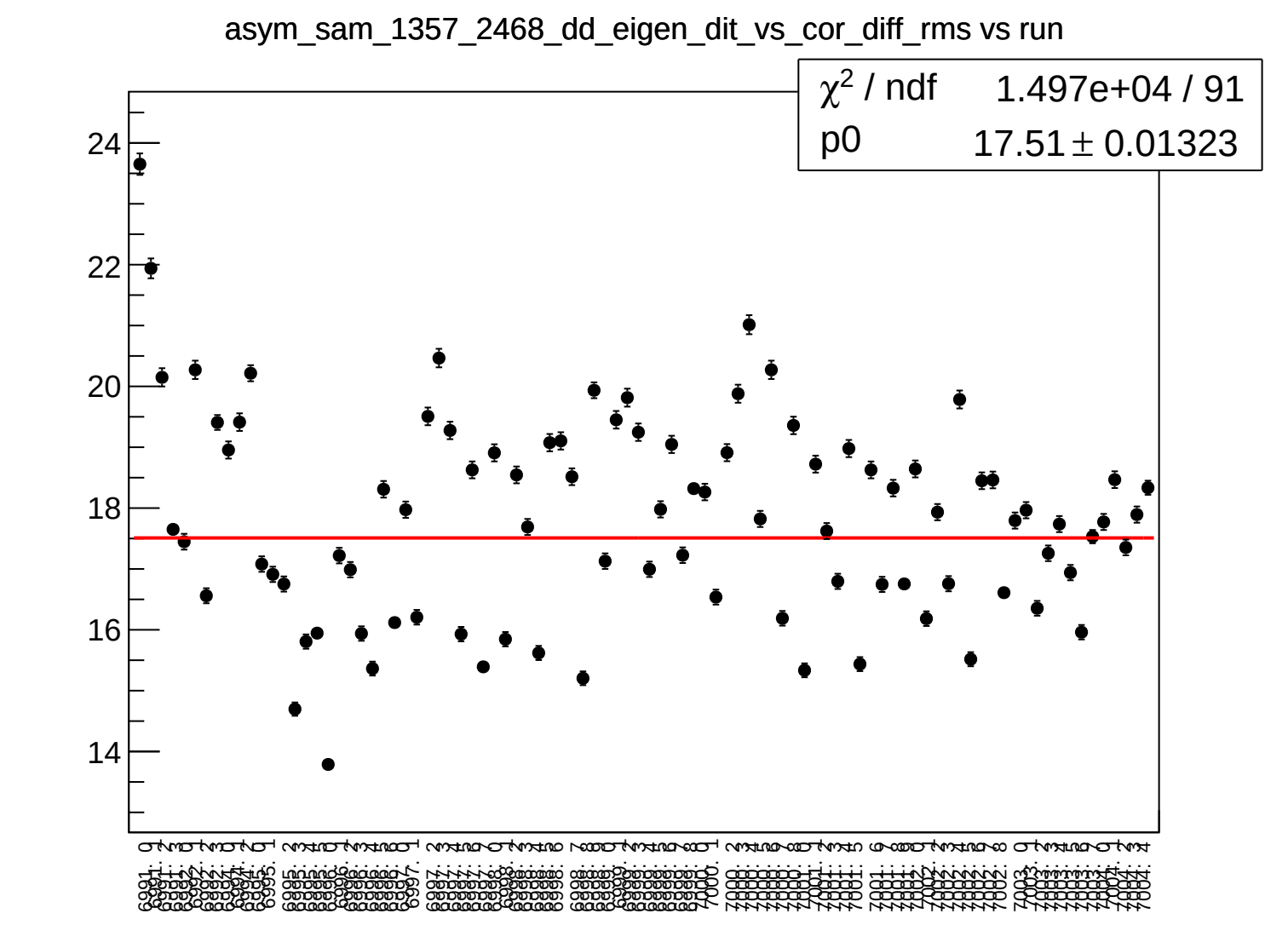

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.497e+04 / 91
p0 17.51 ± 0.01324
24
22
20
18
16
14

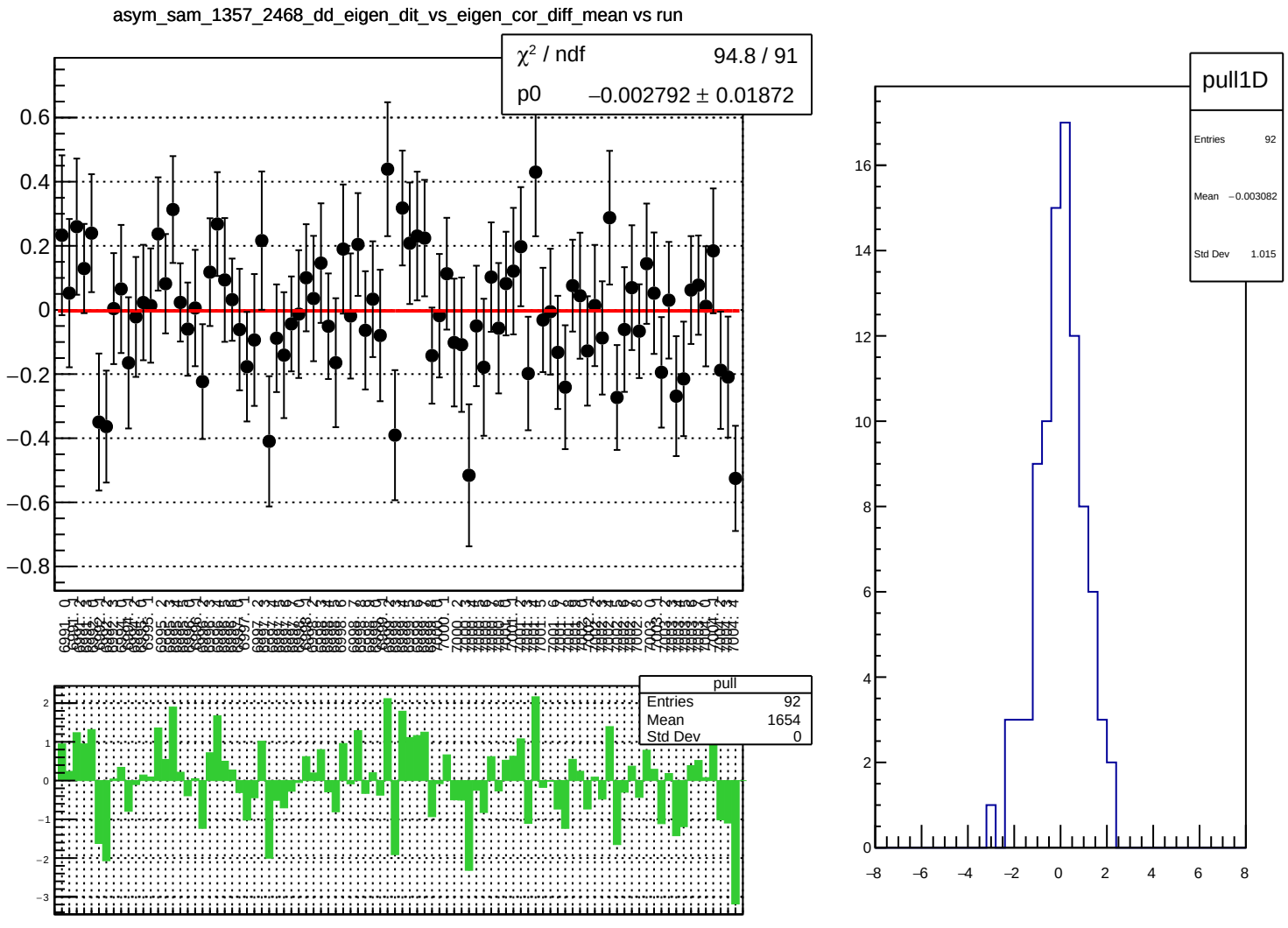

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.6 / 91
p0 −1.023e−06 ± 1.601e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean 252.3
Std Dev 0
3
2
1
0
−1
−2
−3

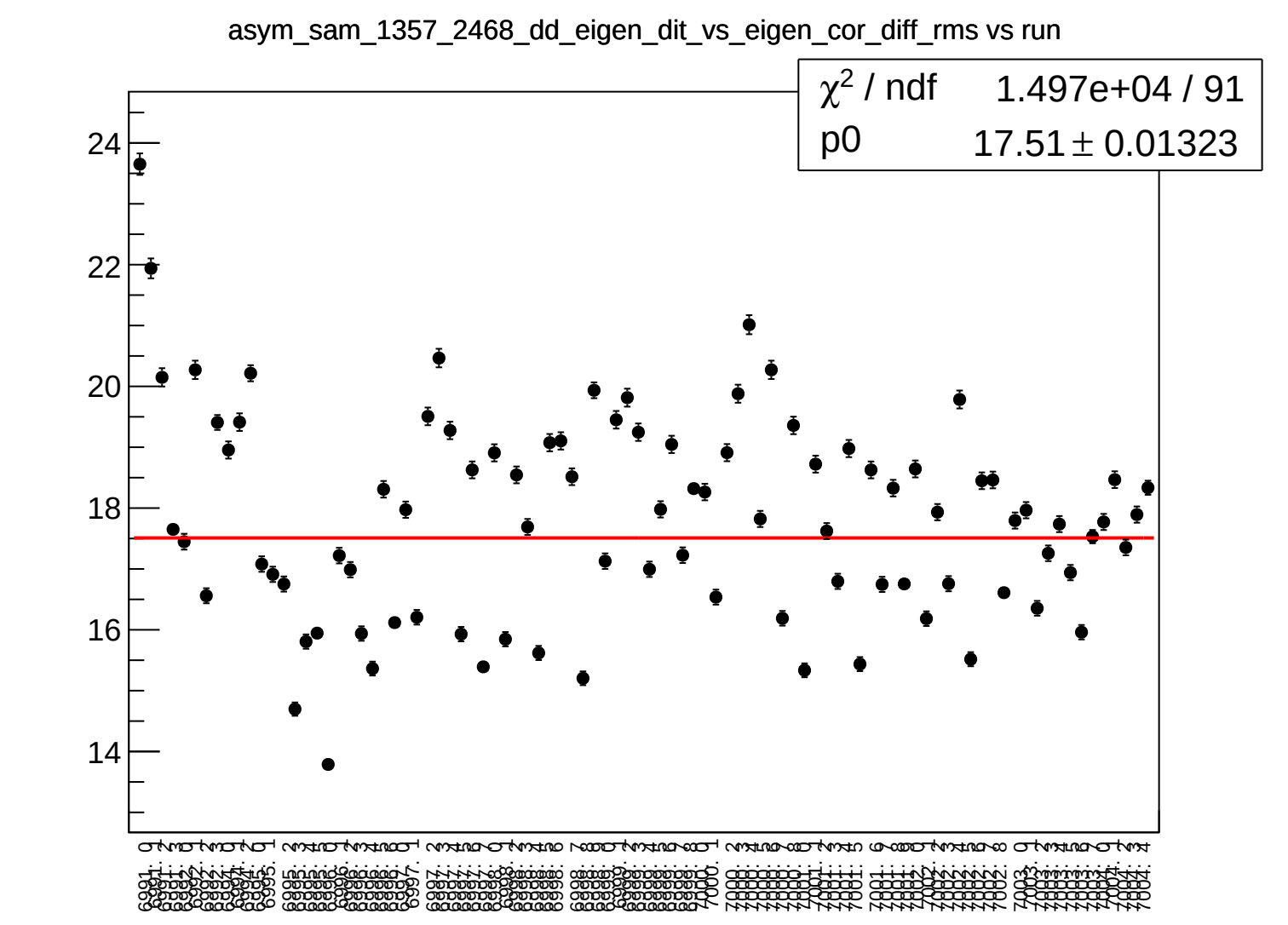

pull1D
Entries 92
Mean −0.01912
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

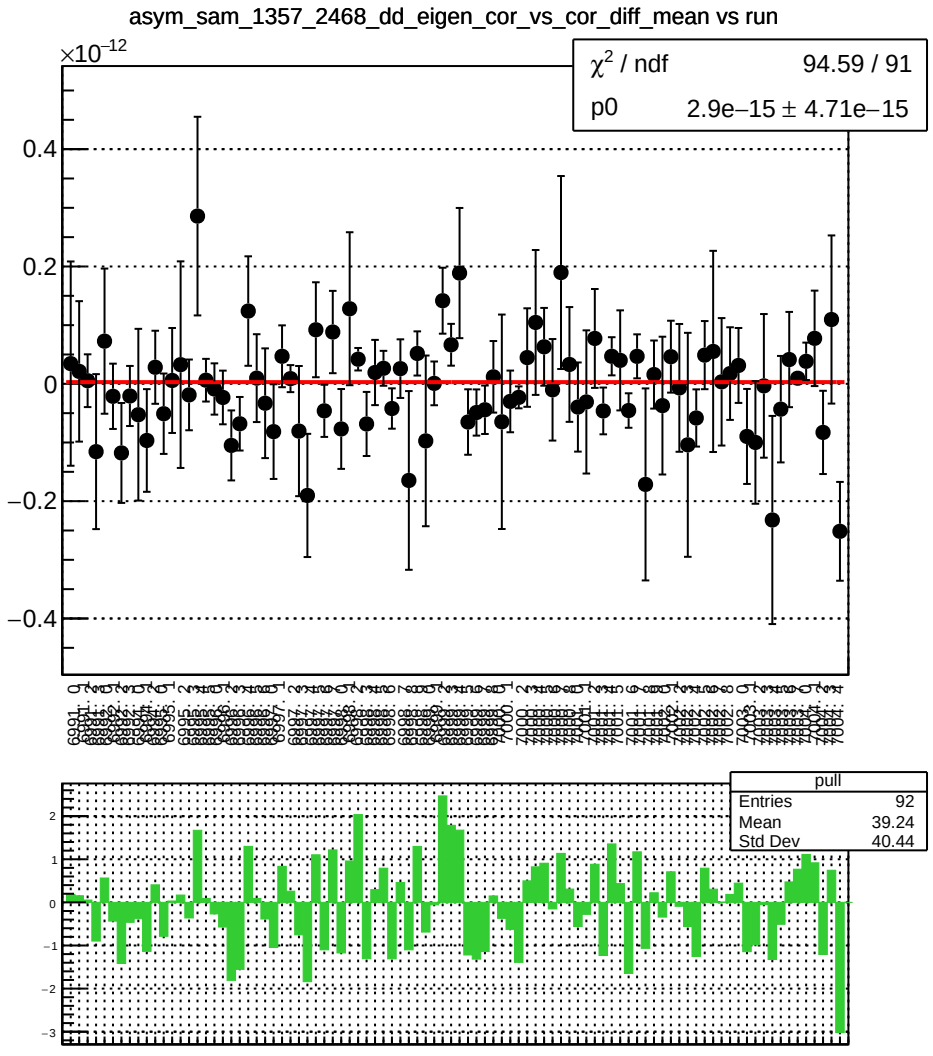

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9876 / 91
p0 0.0015 ± 1.132e−06
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

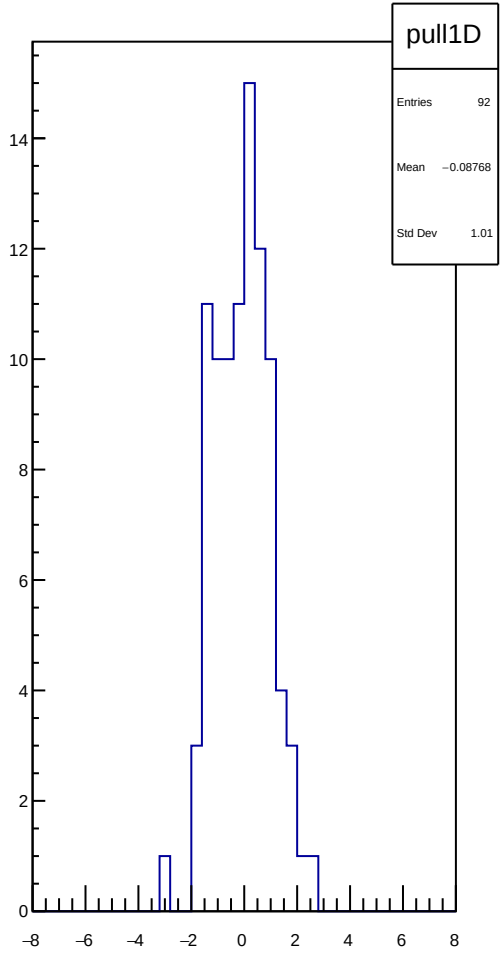

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.8 / 91
p0 −0.002792 ± 0.01872
pull
Entries 92
Mean 1654
Std Dev 0
pull1D
Entries 92
Mean −0.003082
Std Dev 1.015

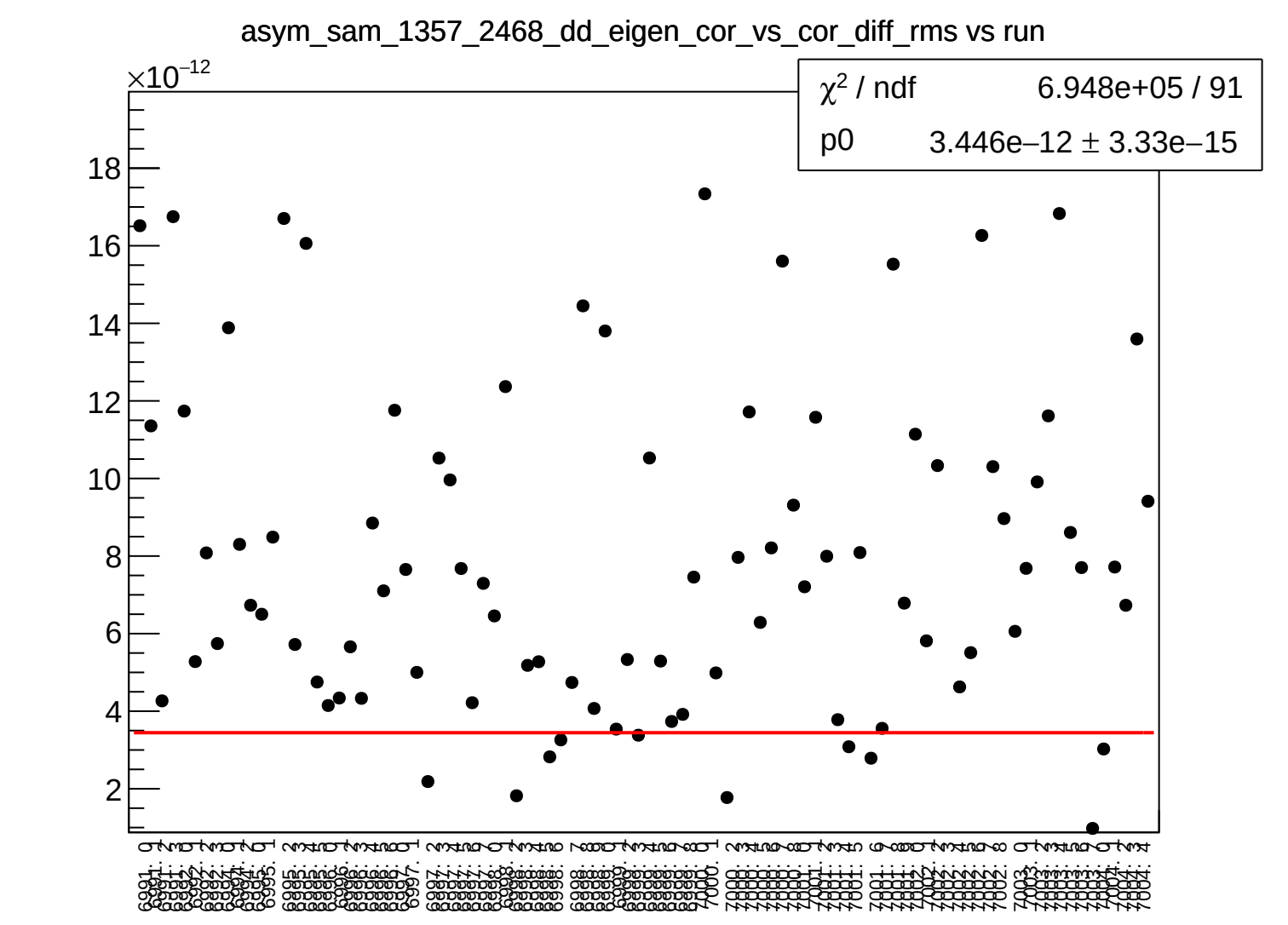

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.497e+04 / 91
p0 17.51 ± 0.01323
24
22
20
18
16
14

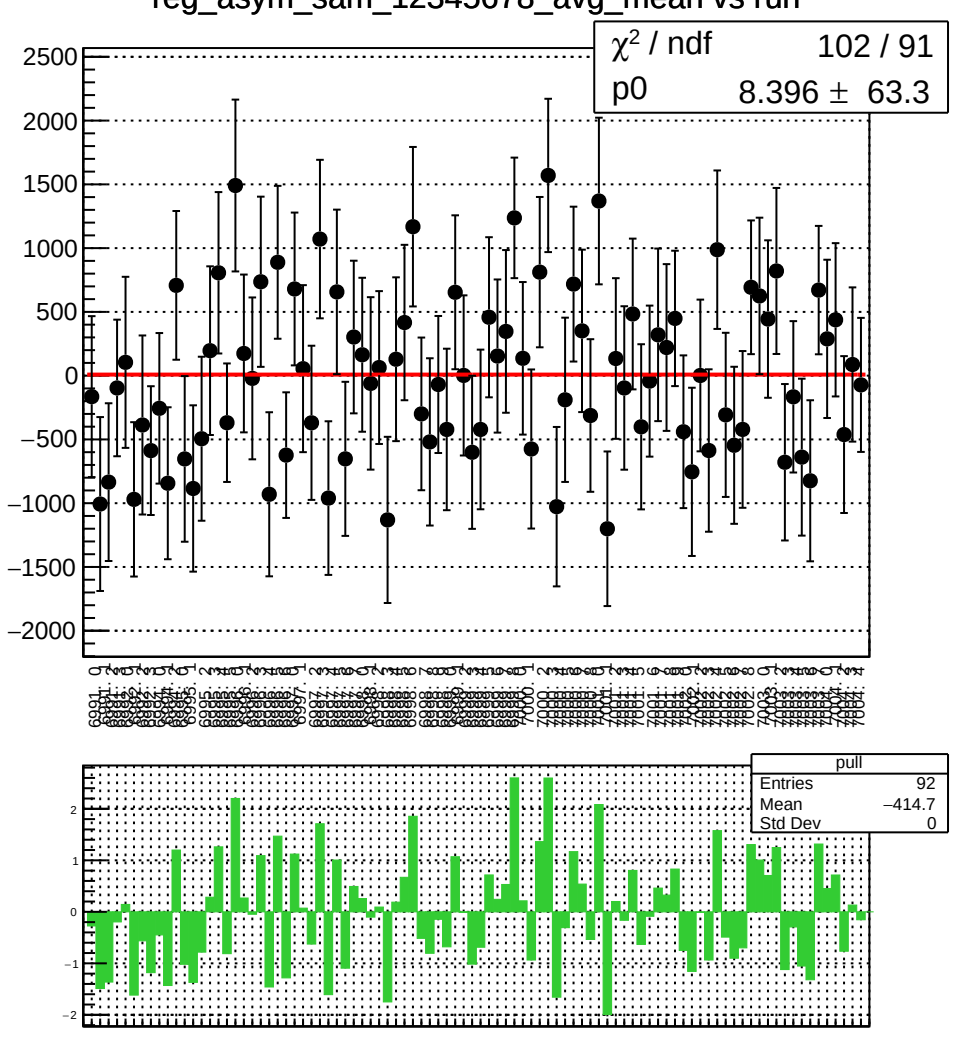

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.8 / 91
p0 −0.002792 ± 0.01872
pull
Entries 92
Mean 1654
Std Dev 0
pull1D
Entries 92
Mean −0.003082
Std Dev 1.015

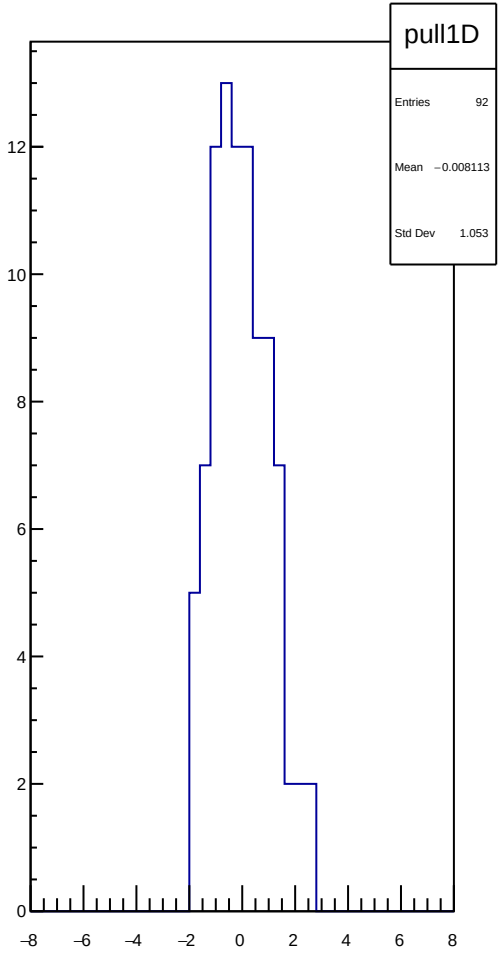

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.497e+04 / 91
p0 17.51 ± 0.01323
24
22
20
18
16
14

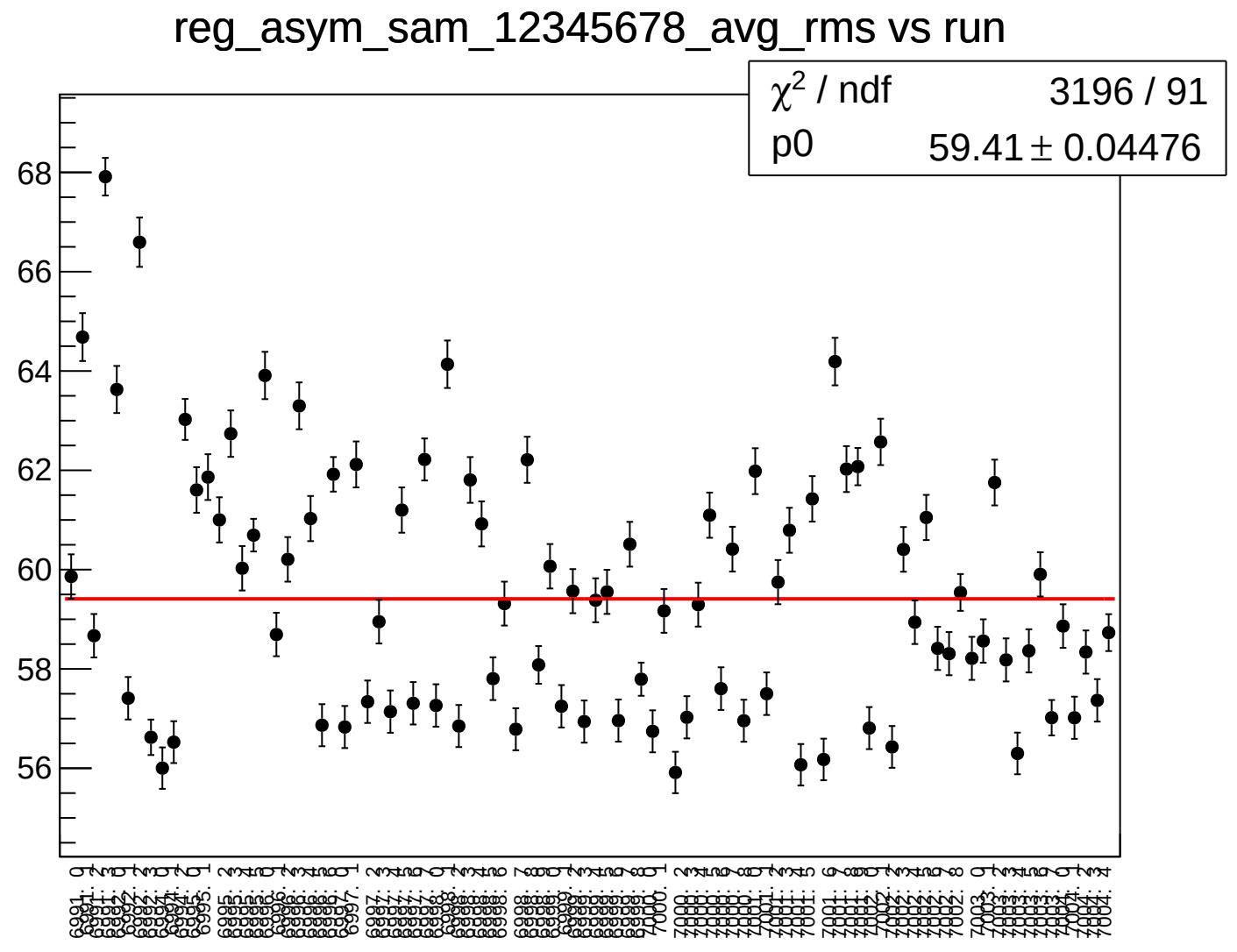

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 94.59 / 91
p0 2.9e−15 ± 4.71e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 39.24
Std Dev 40.44
2
1
0
−1
−2
−3

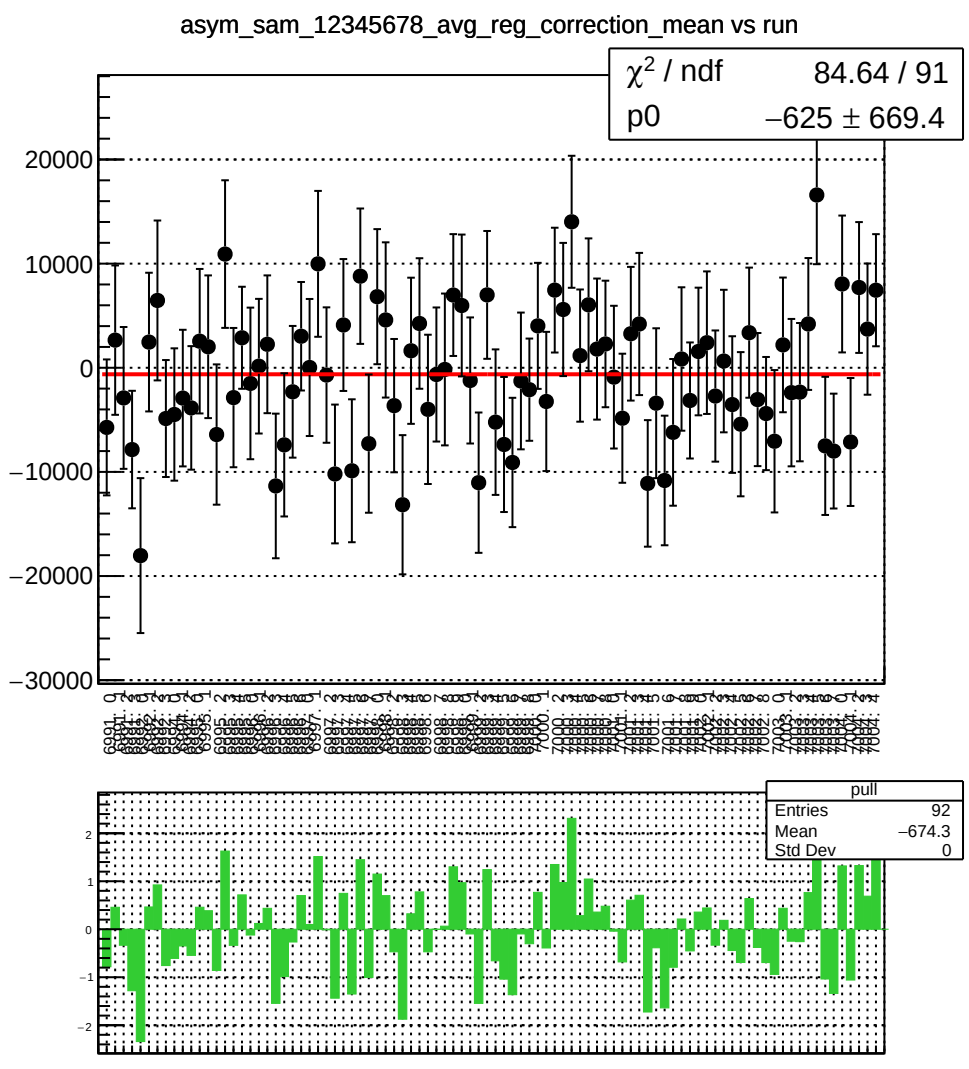

pull1D
Entries 92
Mean −0.08768
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

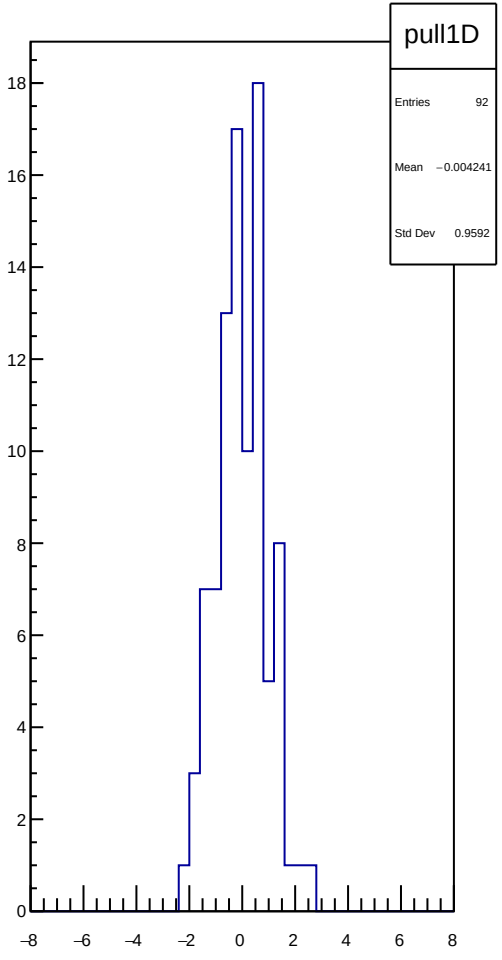

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.948e+05 / 91
p0 3.446e−12 ± 3.33e−15
18
16
14
12
10
8
6
4
2

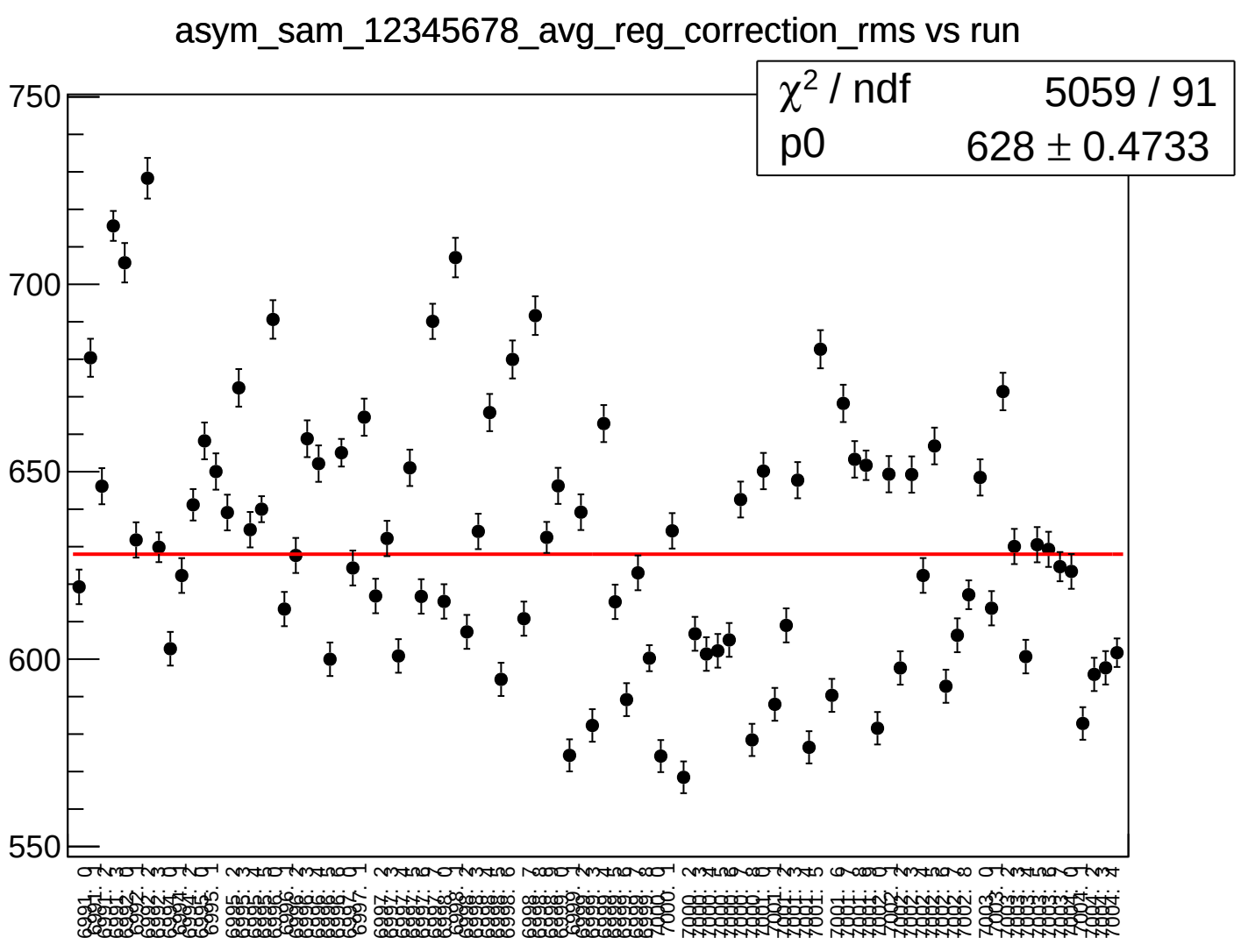

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 102 / 91
p0 8.396 ± 63.3
pull
Entries 92
Mean −414.7
Std Dev 0

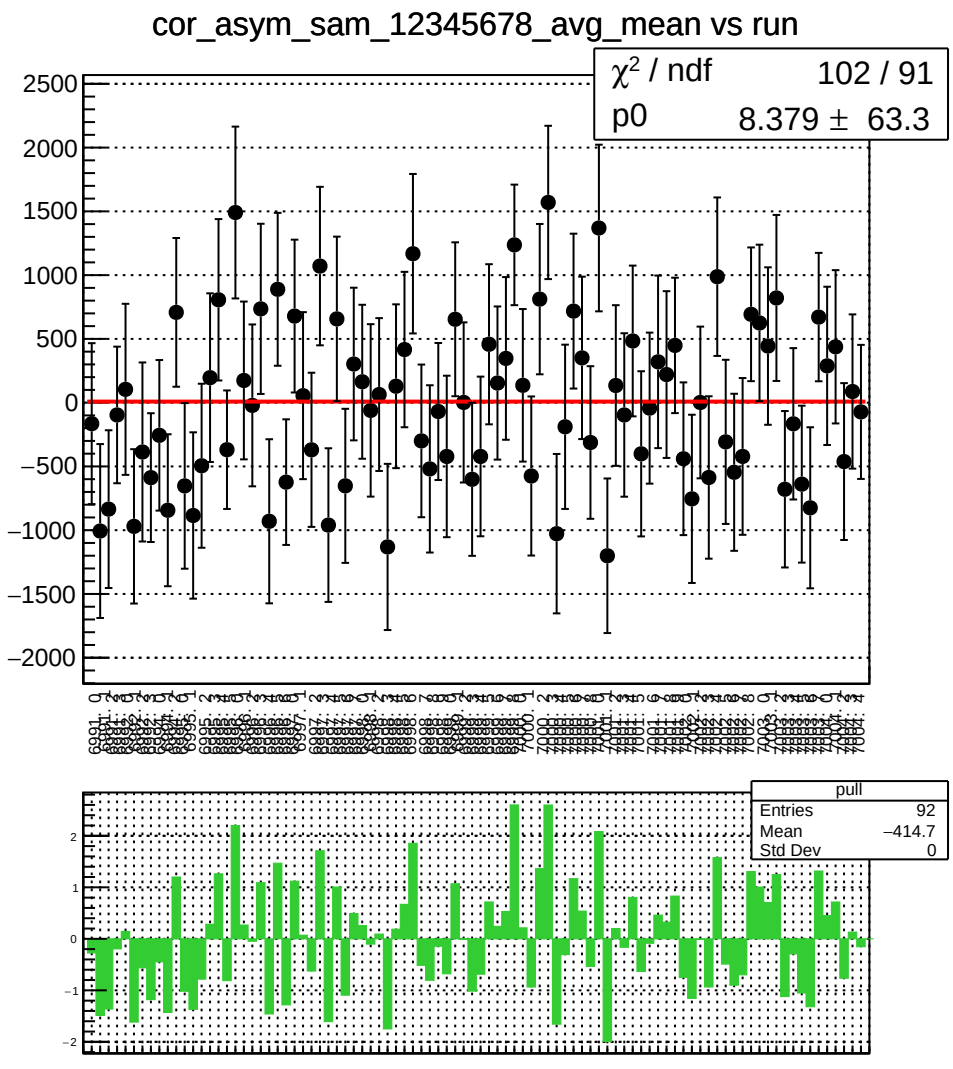

pull1D
Entries 92
Mean −0.008113
Std Dev 1.053

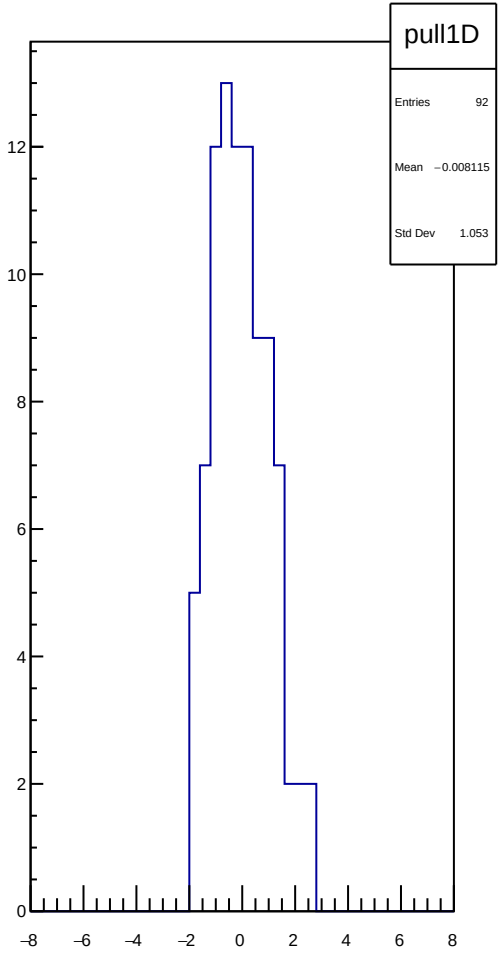

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3196 / 91
p0 59.41 ± 0.04476
68
66
64
62
60
58
56

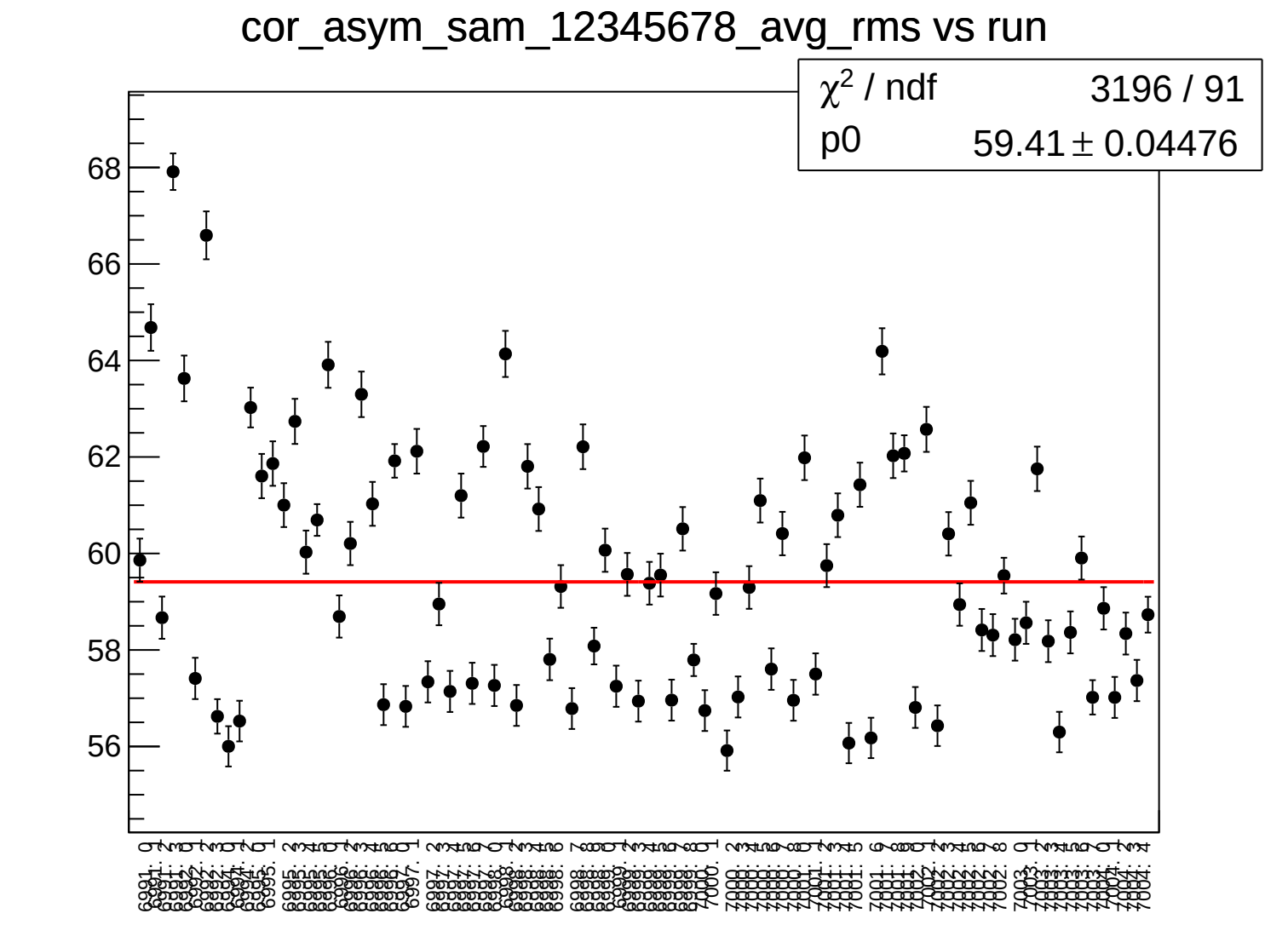

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 84.64 / 91
p0 −625 ± 669.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −674.3
Std Dev 0
2
1
0
−1
−2

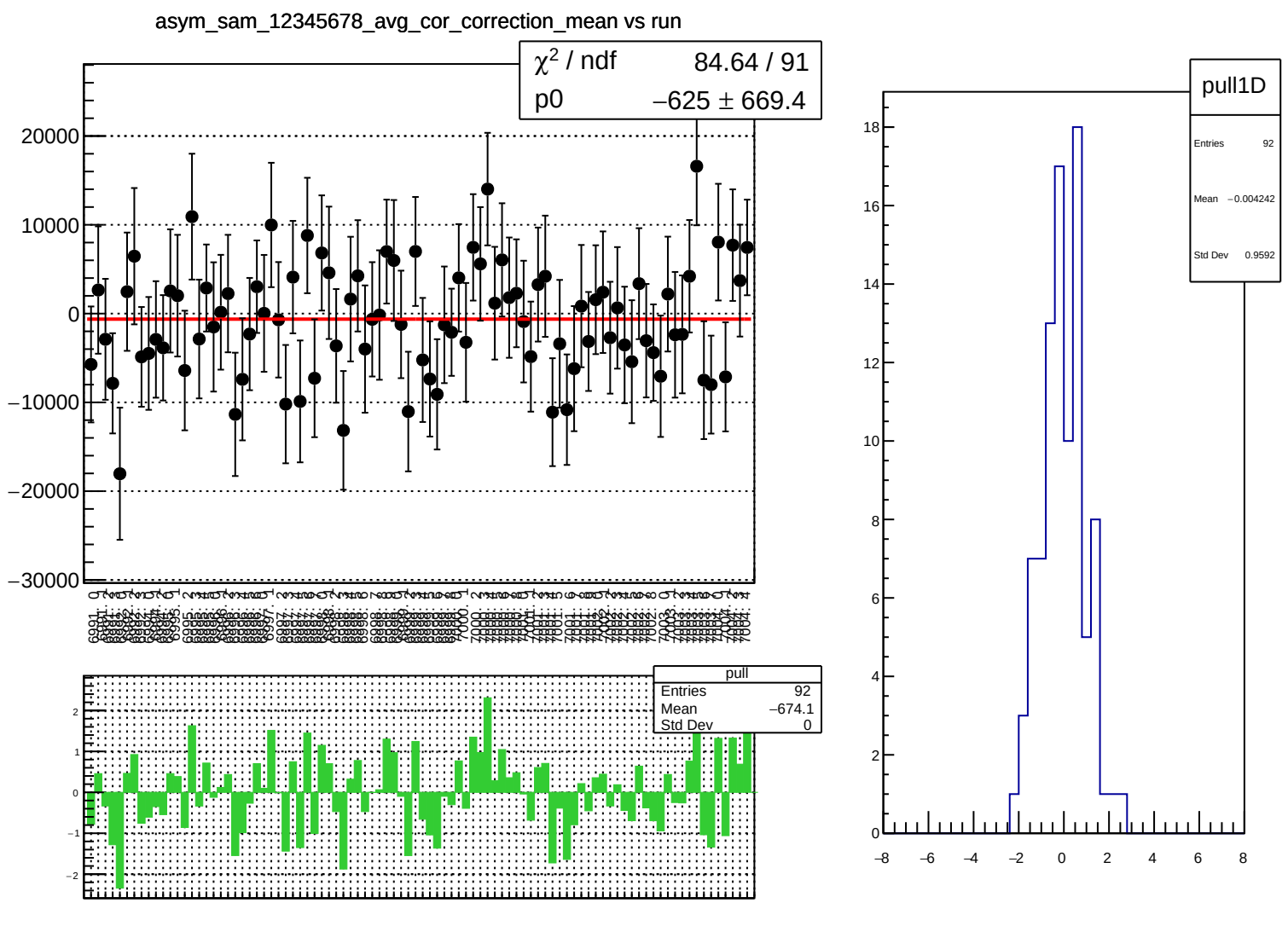

pull1D
Entries 92
Mean −0.004241
Std Dev 0.9592
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

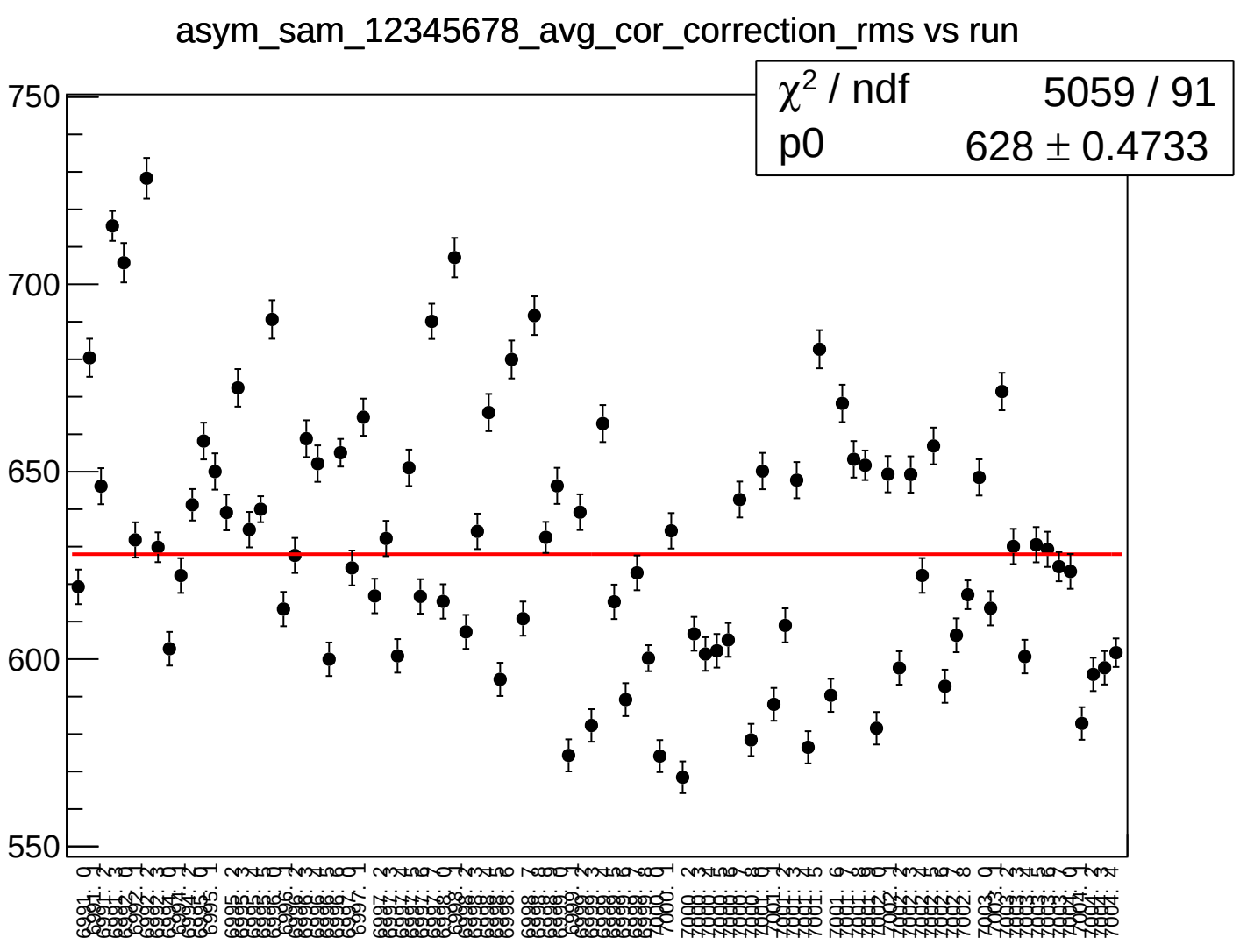

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 5059 / 91
p0 628 ± 0.4733
750
700
650
600
550

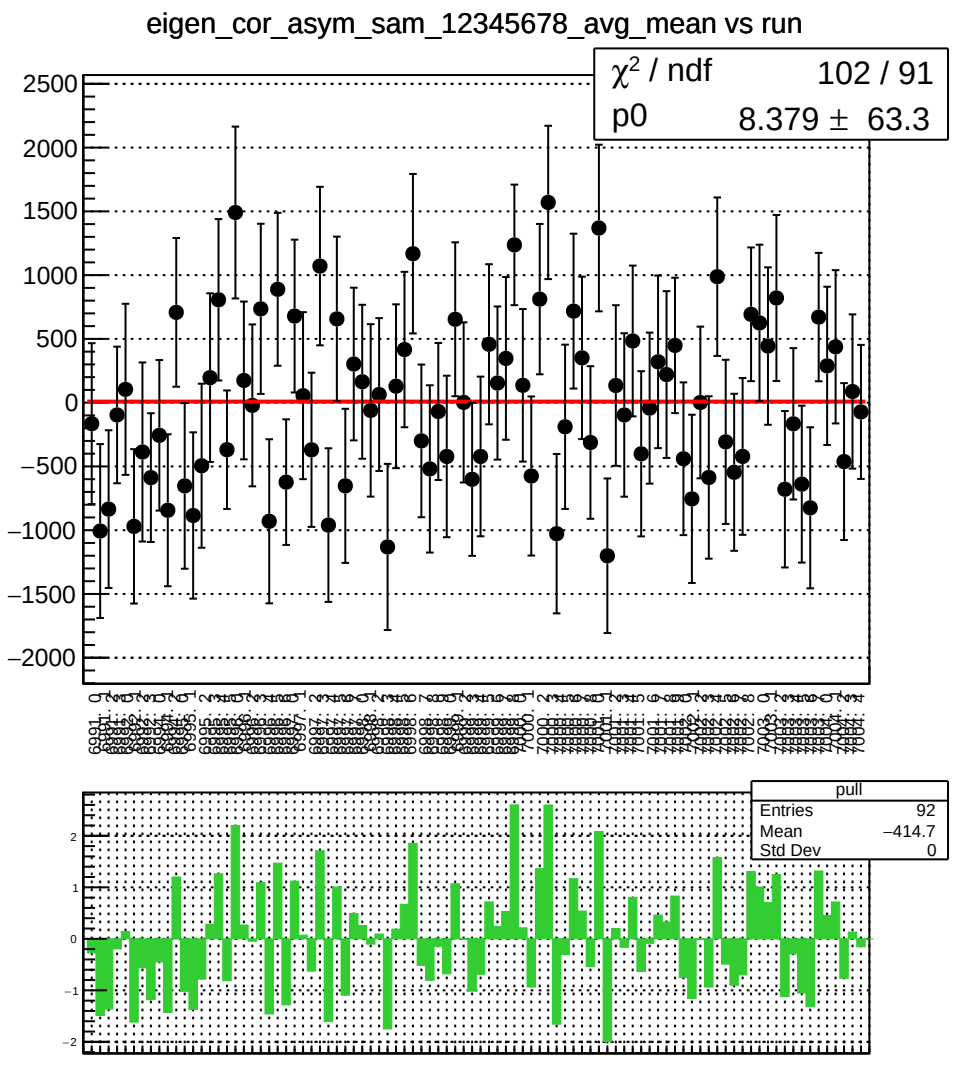

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 102 / 91
p0 8.379 ± 63.3
pull
Entries 92
Mean −414.7
Std Dev 0

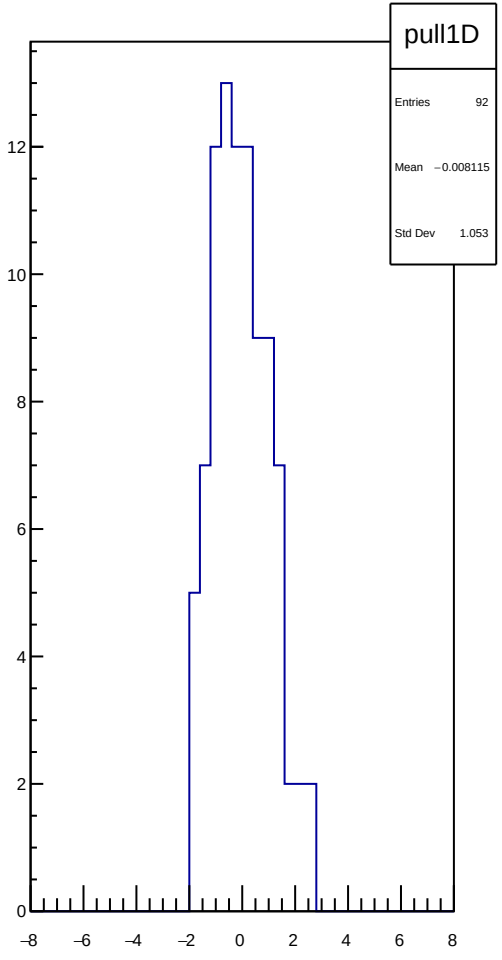

pull1D
Entries 92
Mean −0.008115
Std Dev 1.053

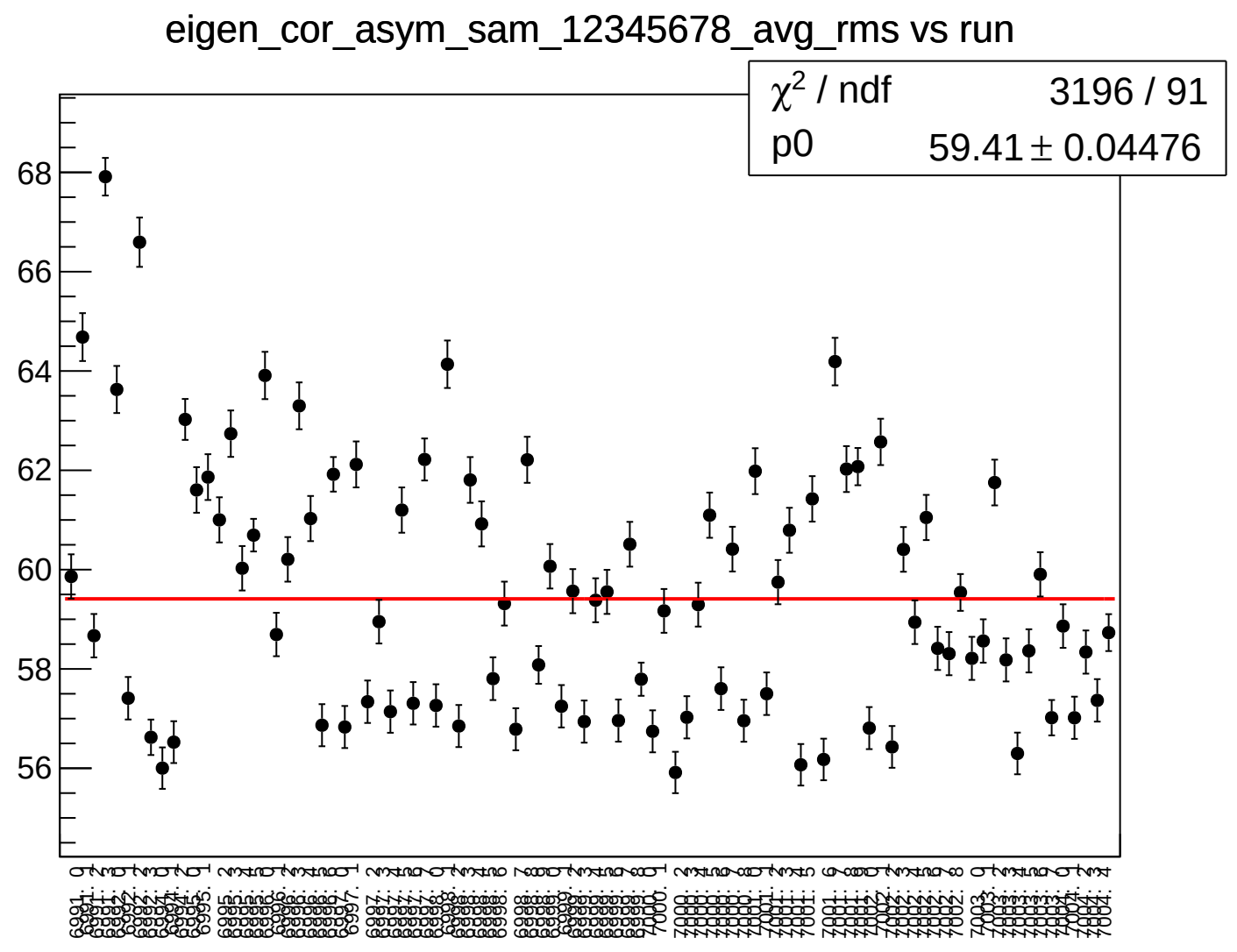

cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3196 / 91
p0 59.41 ± 0.04476
68
66
64
62
60
58
56

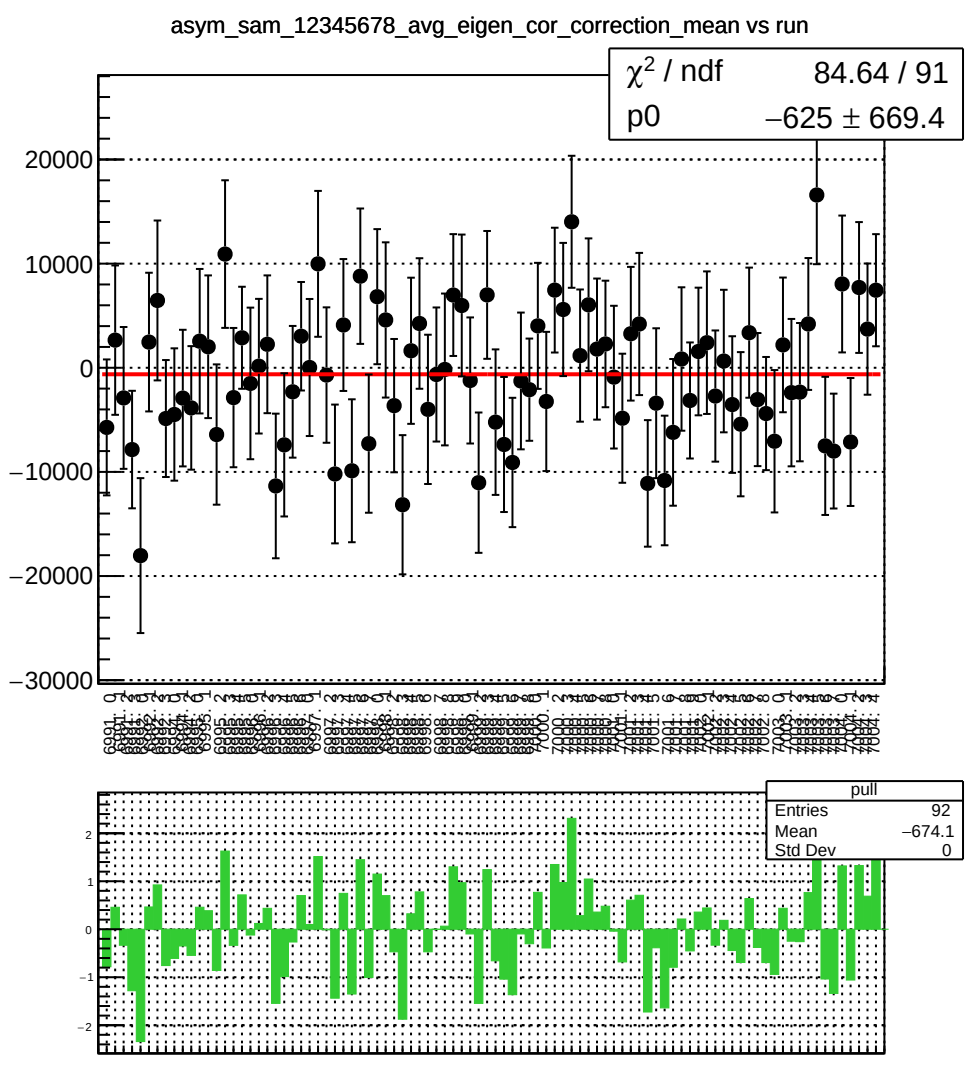

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 84.64 / 91
p0 −625 ± 669.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −674.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004242
Std Dev 0.9592
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

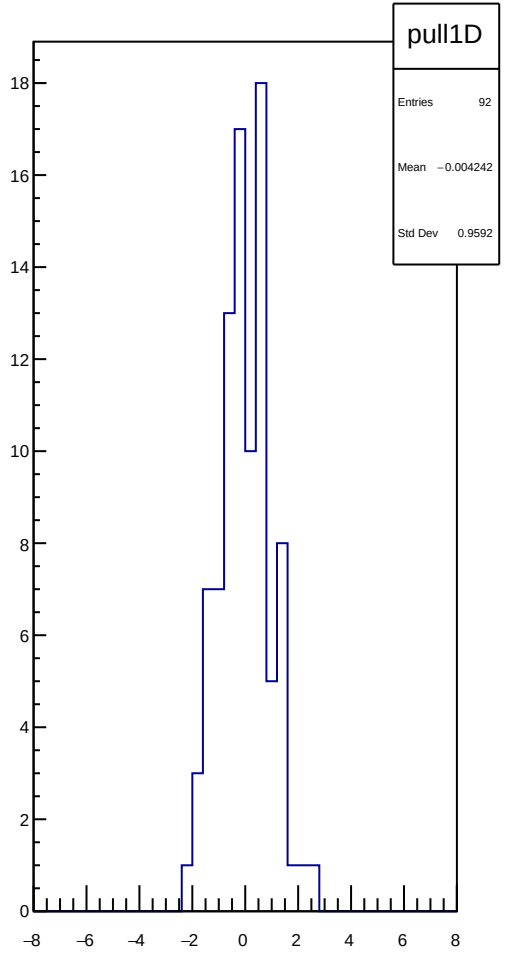

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 5059 / 91
p0 628 ± 0.4733
750
700
650
600
550

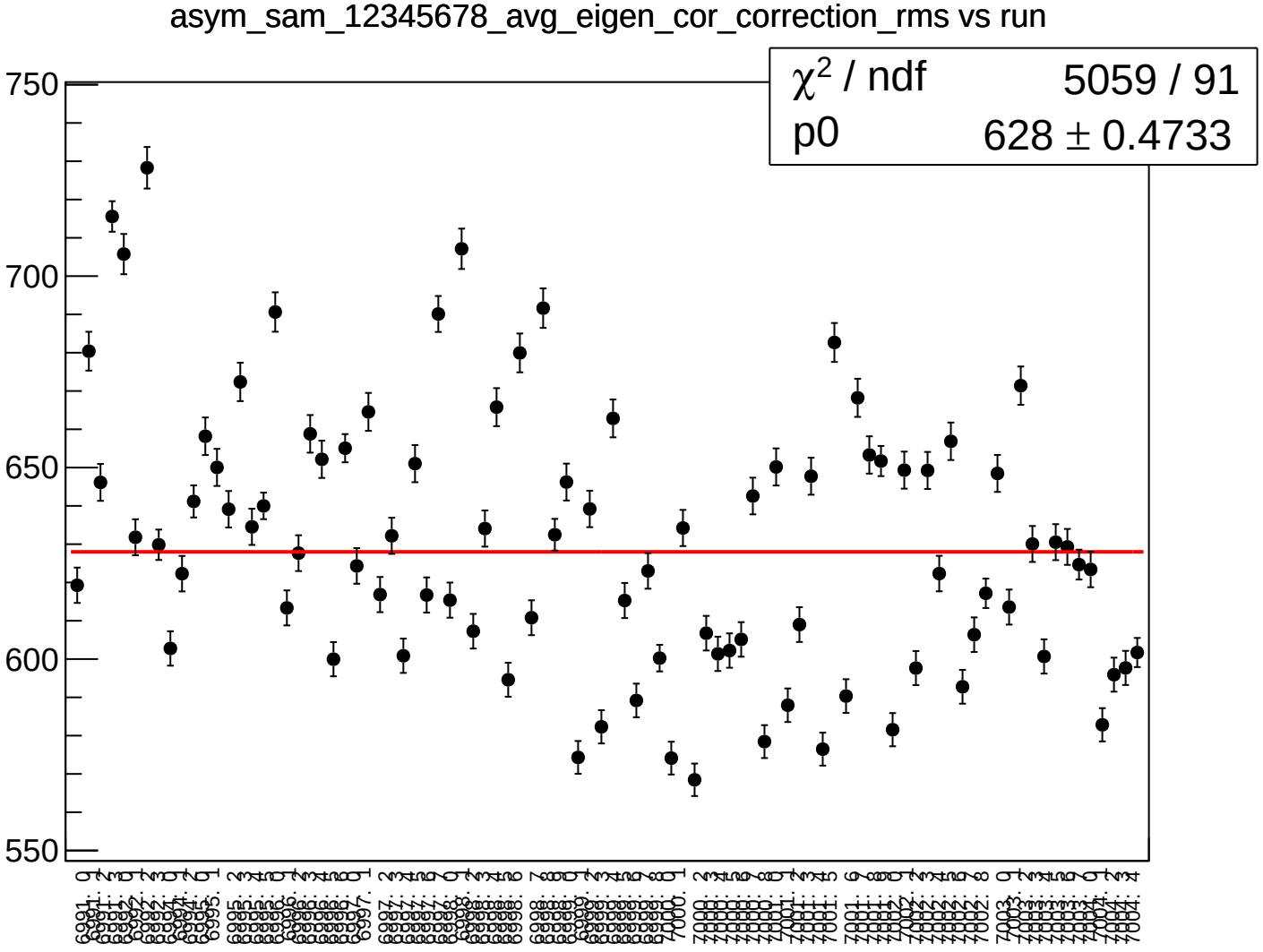

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 102 / 91
p0 8.379 ± 63.3
pull
Entries 92
Mean −414.7
Std Dev 0

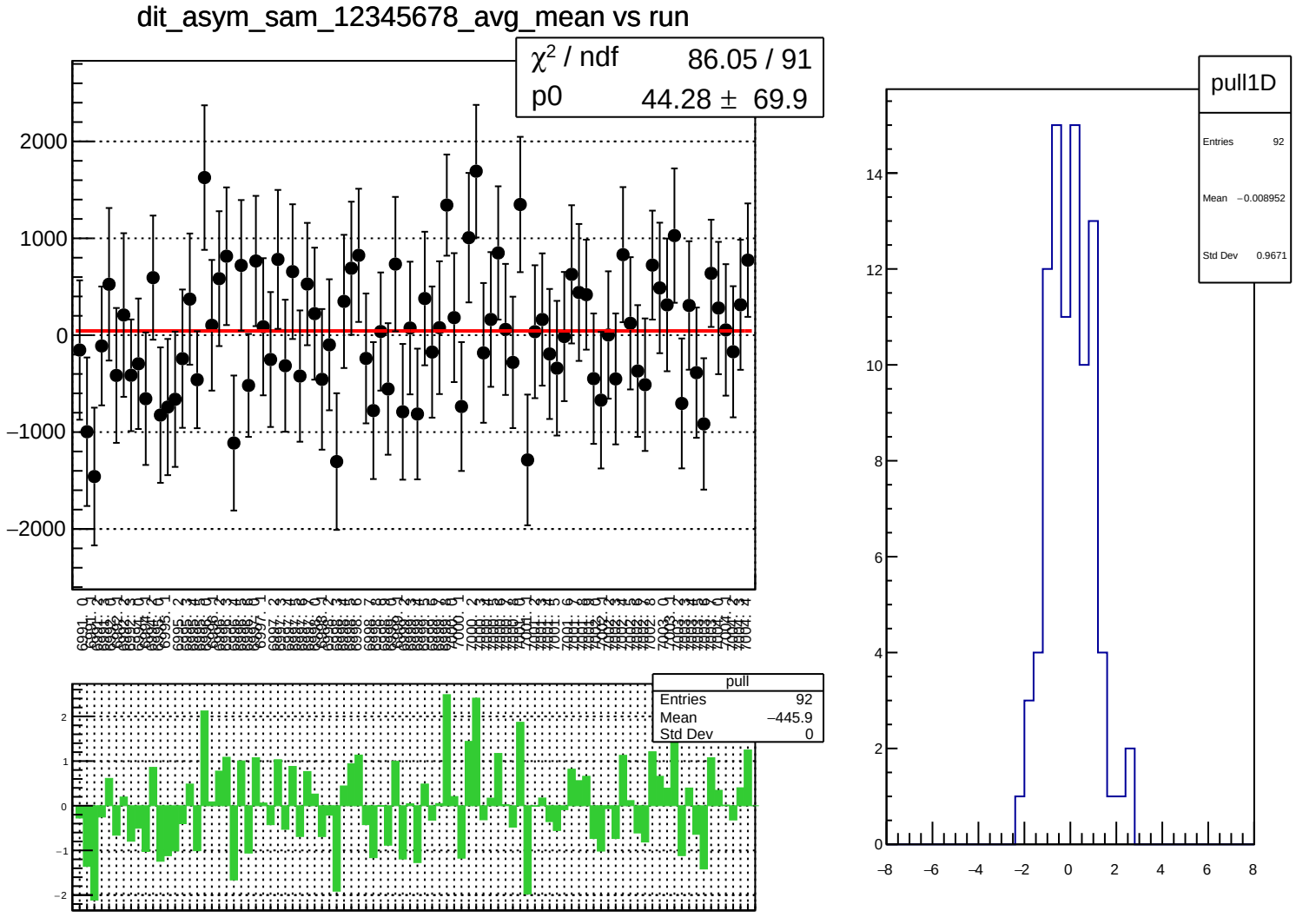

pull1D
Entries 92
Mean −0.008115
Std Dev 1.053

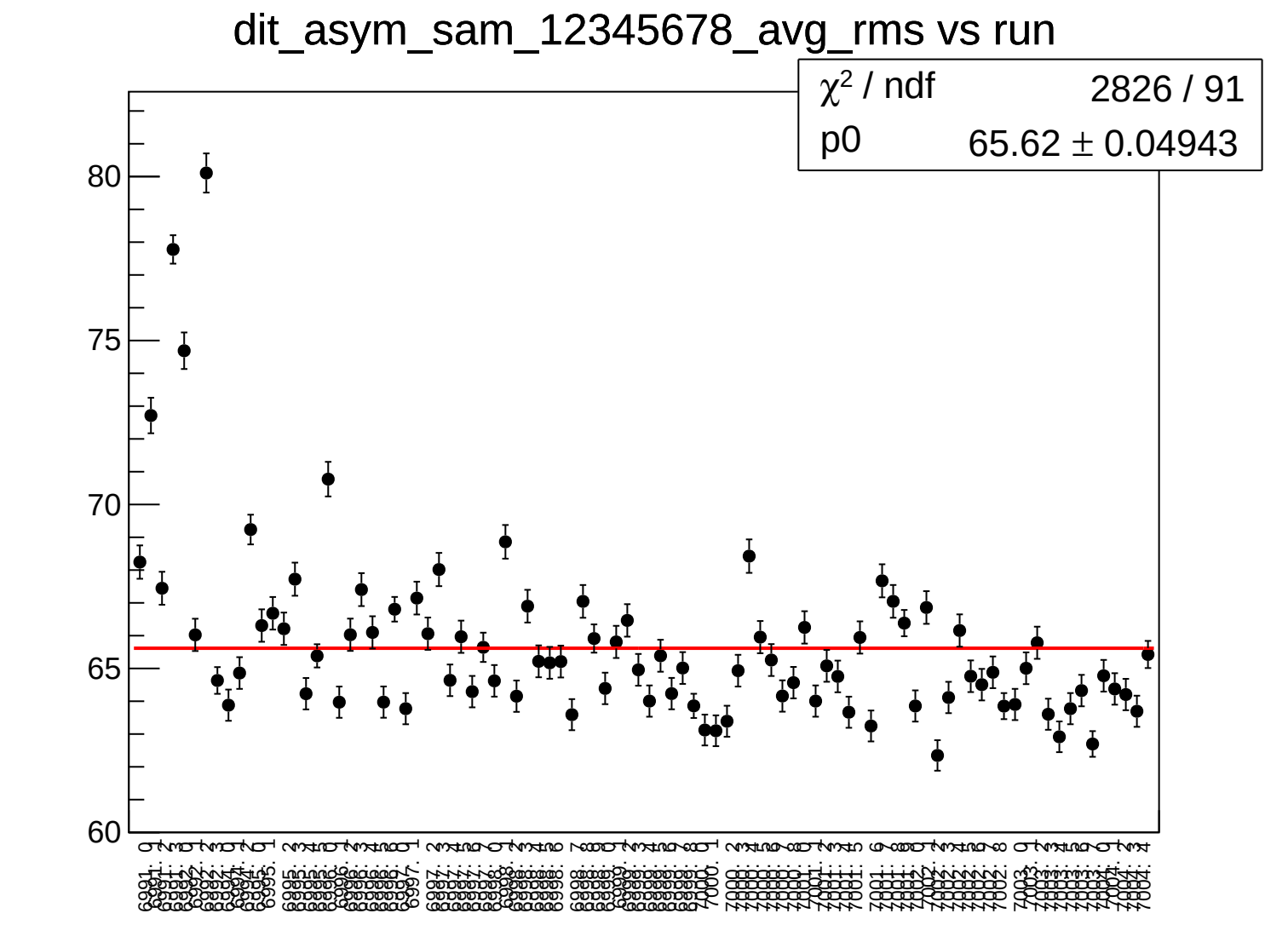

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 3196 / 91
p0 59.41 ± 0.04476
68
66
64
62
60
58
56

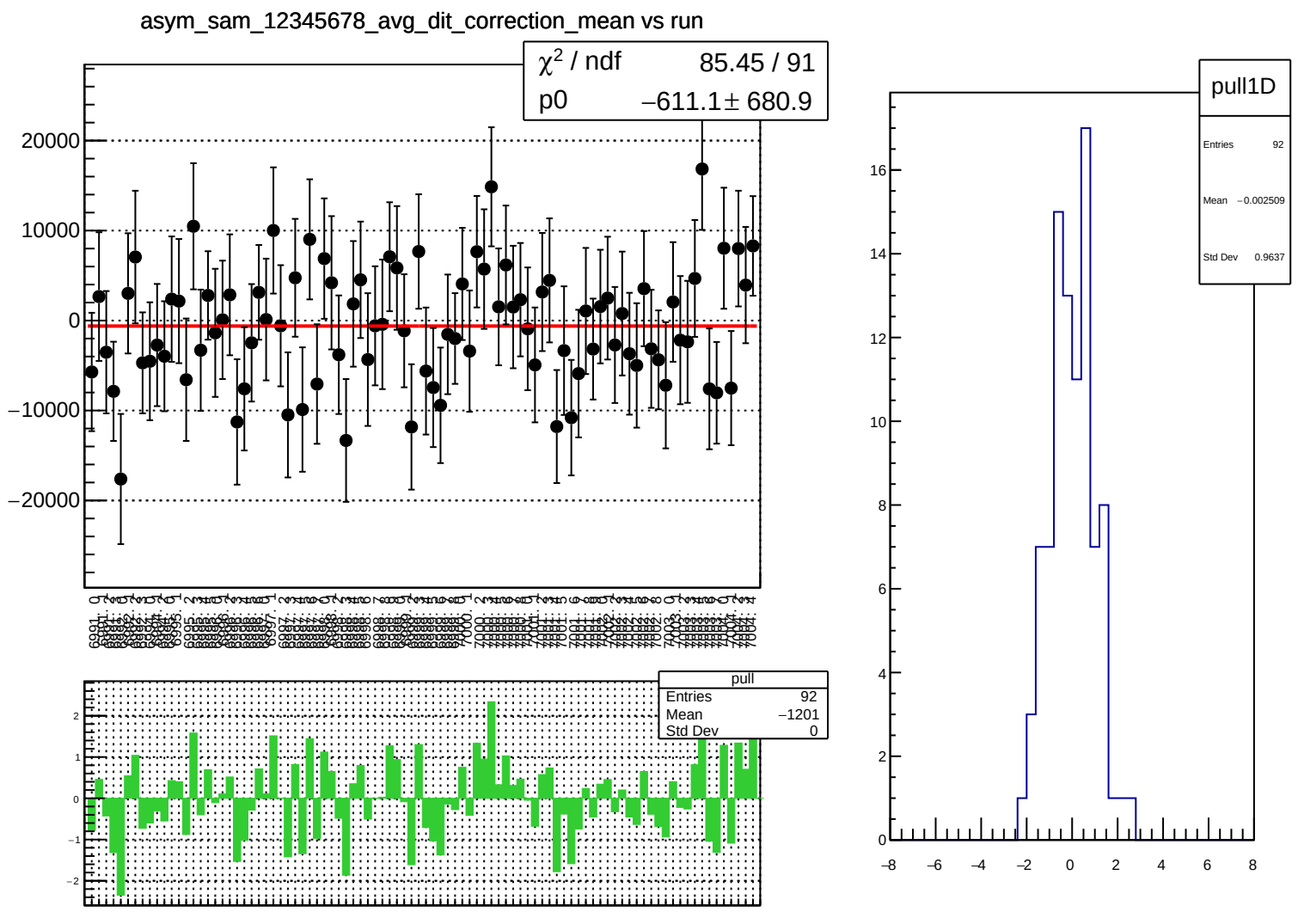

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.64 / 91
p0 −625 ± 669.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −674.1
Std Dev 0
2
1
0
−1
−2

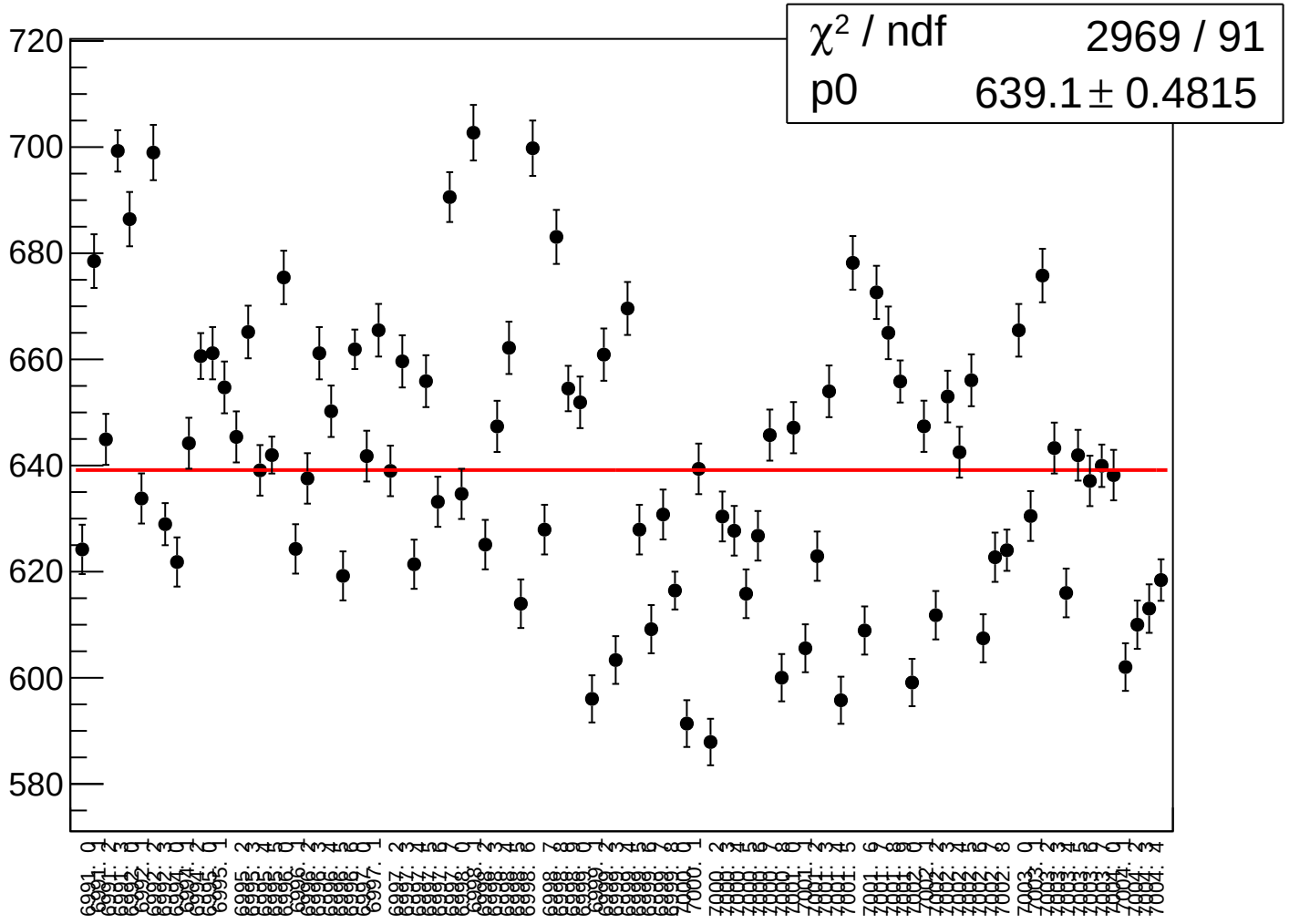

pull1D
Entries 92
Mean −0.004242
Std Dev 0.9592
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

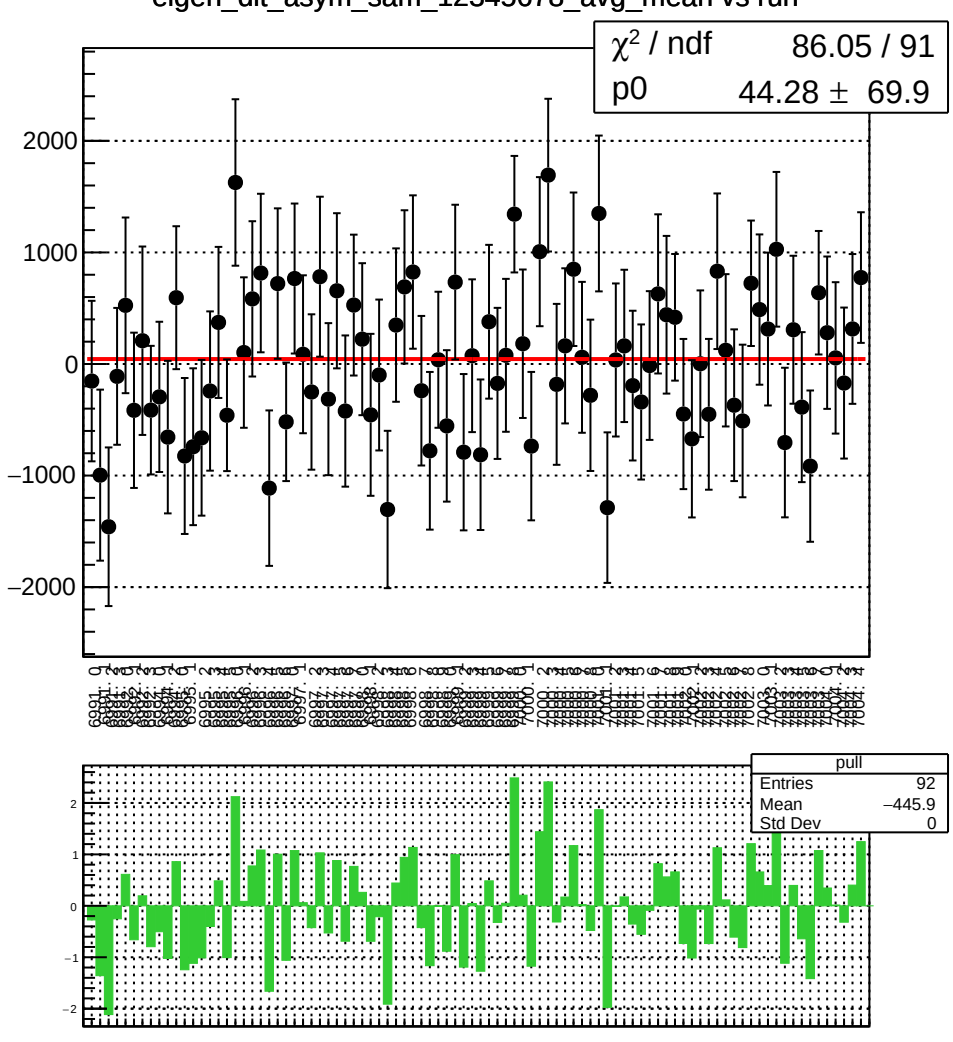

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 5059 / 91
p0 628 ± 0.4733
750
700
650
600
550

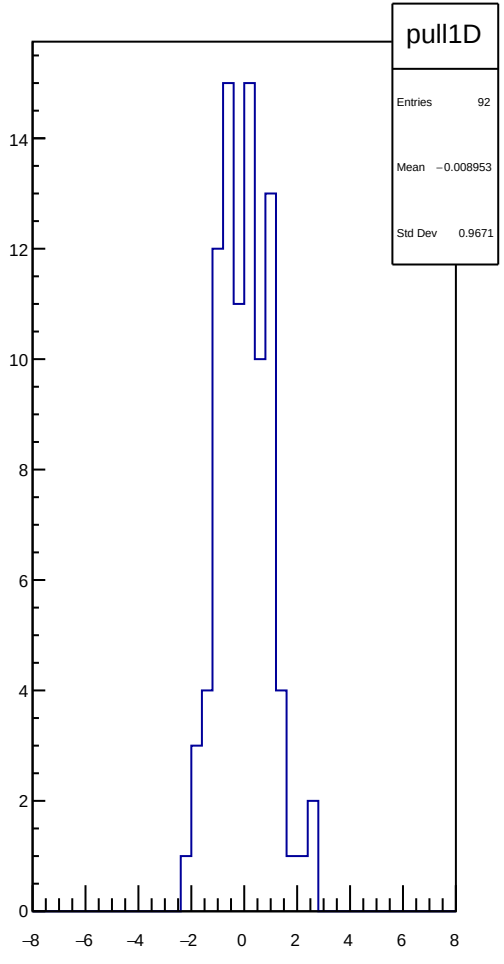

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 86.05 / 91
p0 44.28 ± 69.9
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −445.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.008952
Std Dev 0.9671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

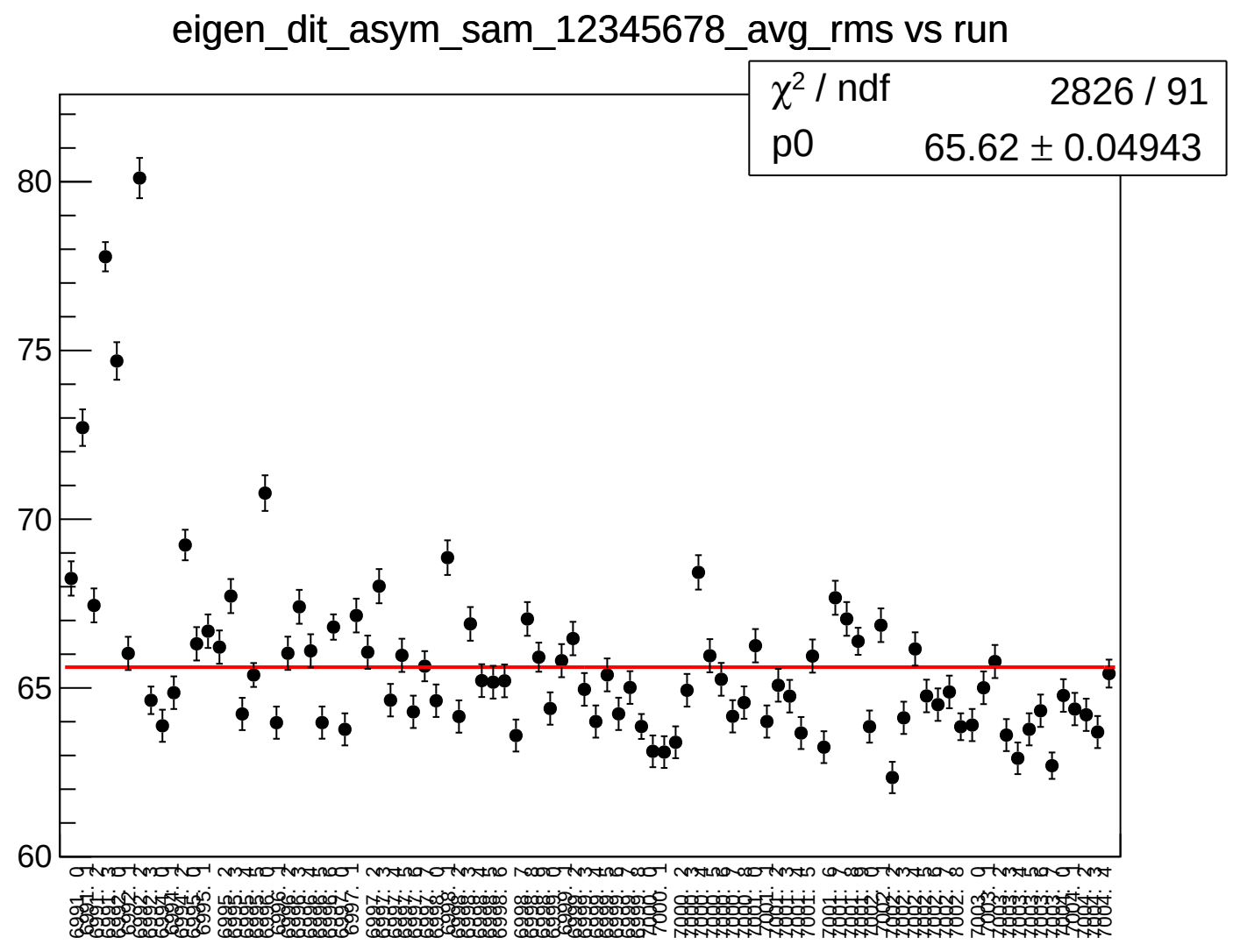

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2826 / 91
p0 65.62 ± 0.04943
80
75
70
65
60

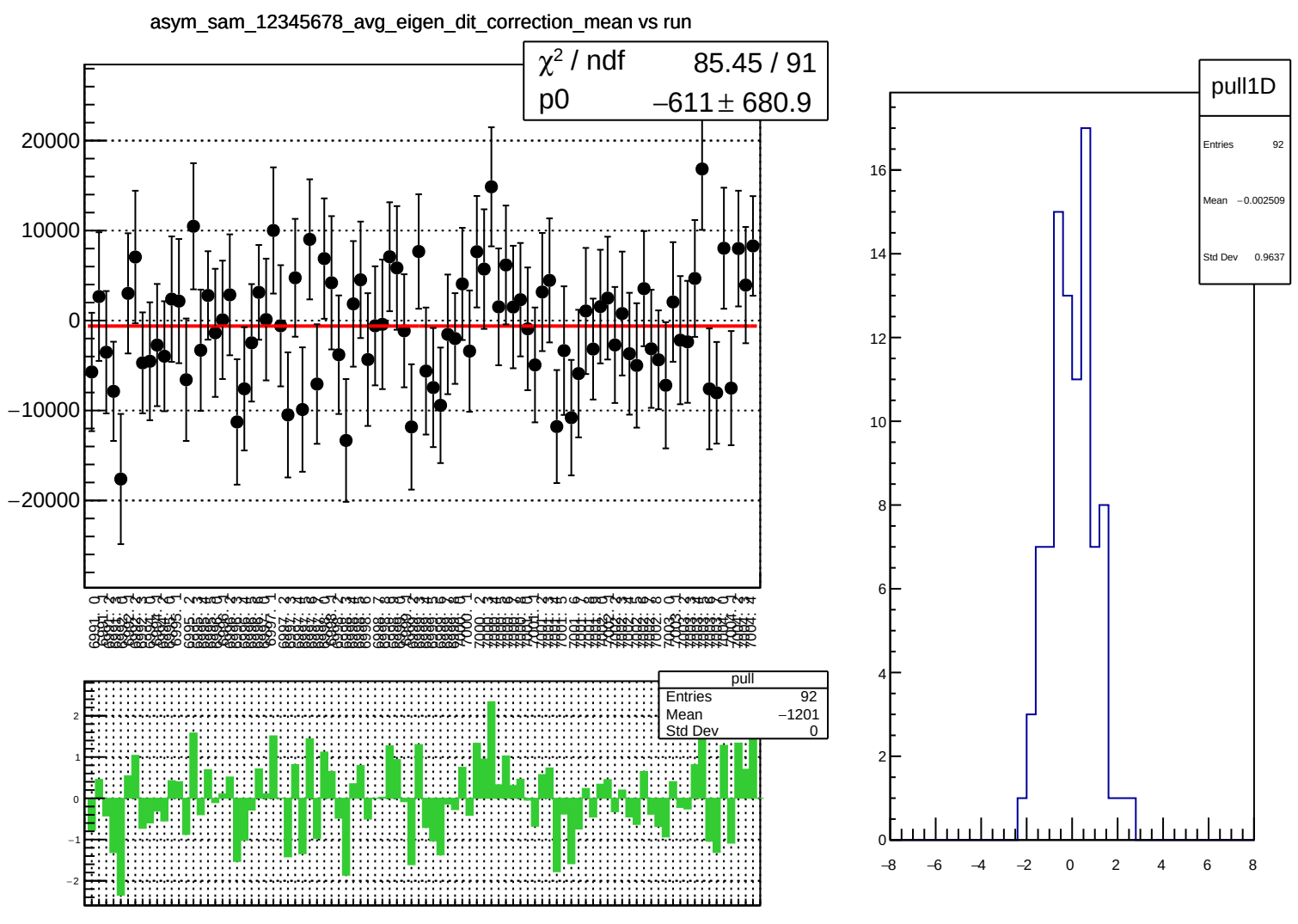

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 85.45 / 91
p0 −611.1± 680.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1201
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002509
Std Dev 0.9637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

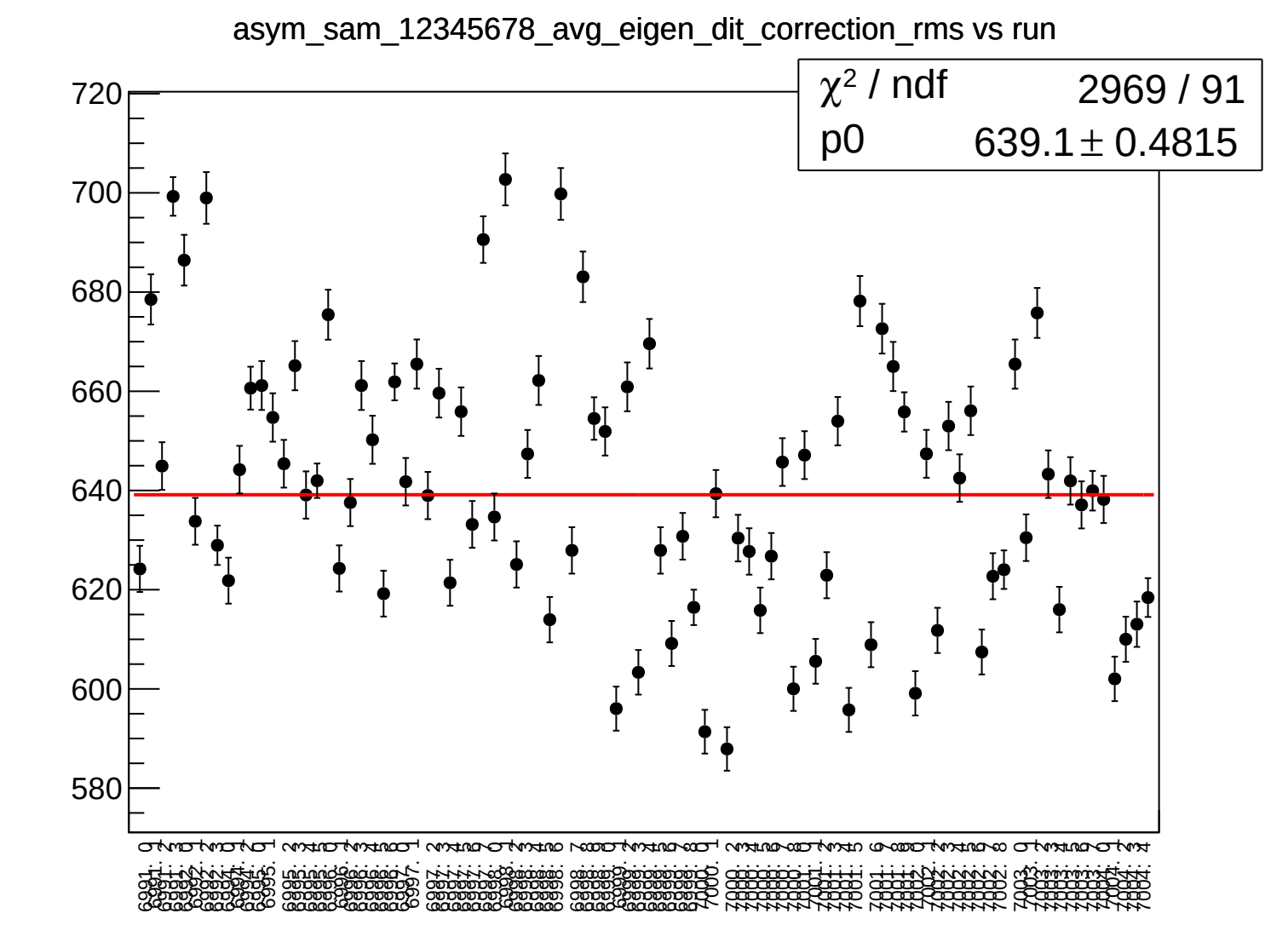

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 2969 / 91
p0 639.1 ± 0.4815
720
700
680
660
640
620
600
580

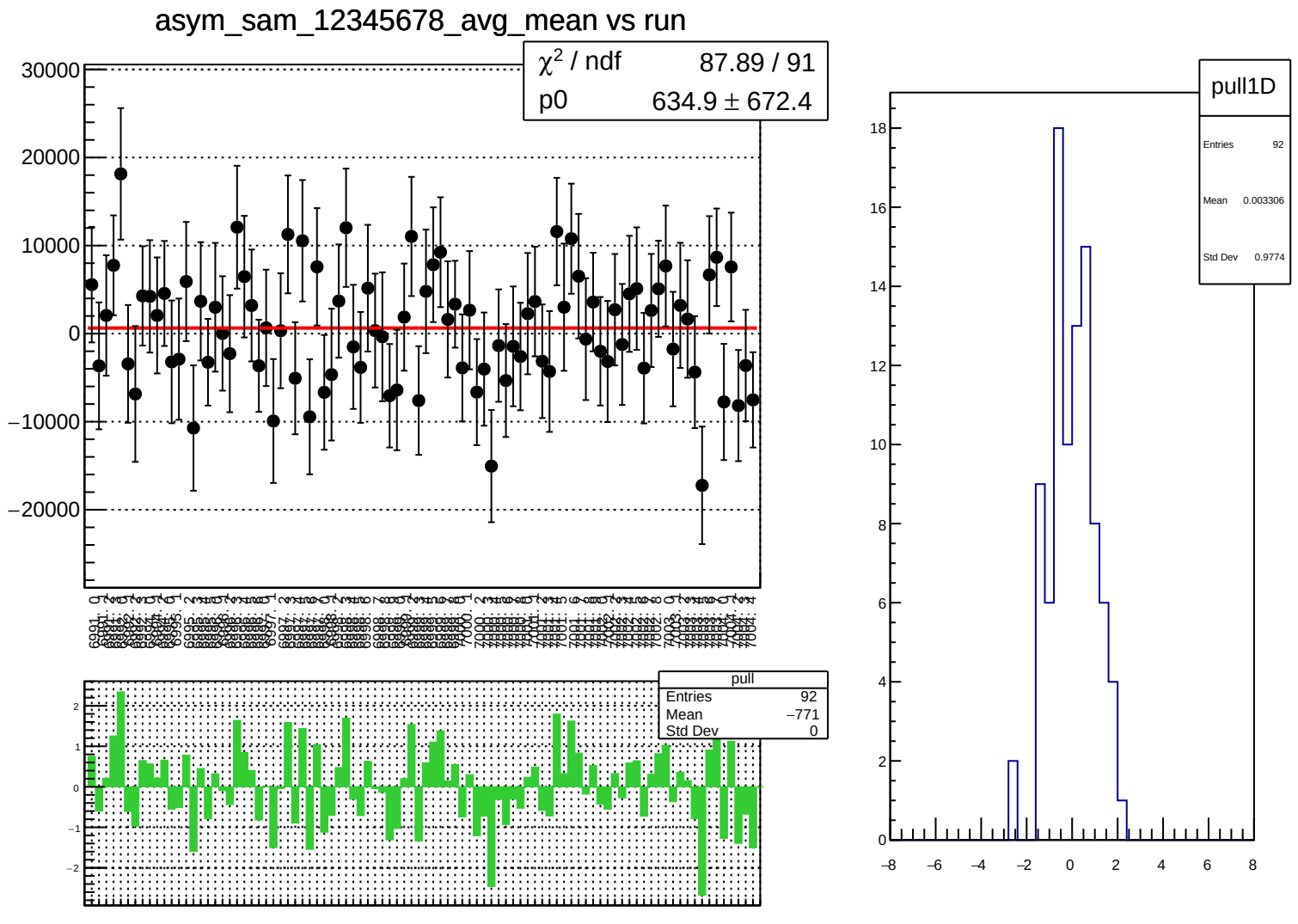

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 86.05 / 91
p0 44.28 ± 69.9
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −445.9
Std Dev 0
2
1
0
−1
−2

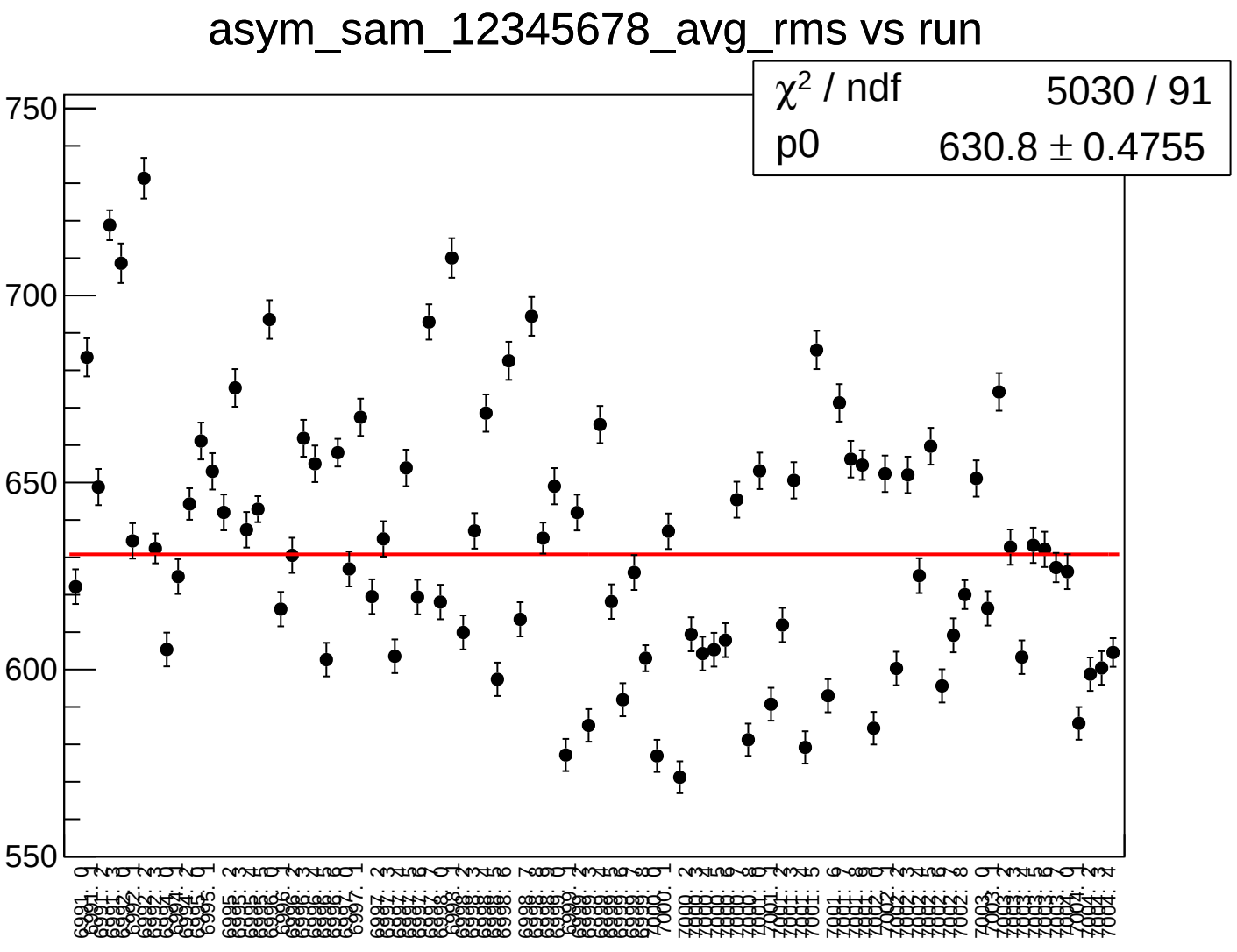

pull1D
Entries 92
Mean −0.008953
Std Dev 0.9671
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

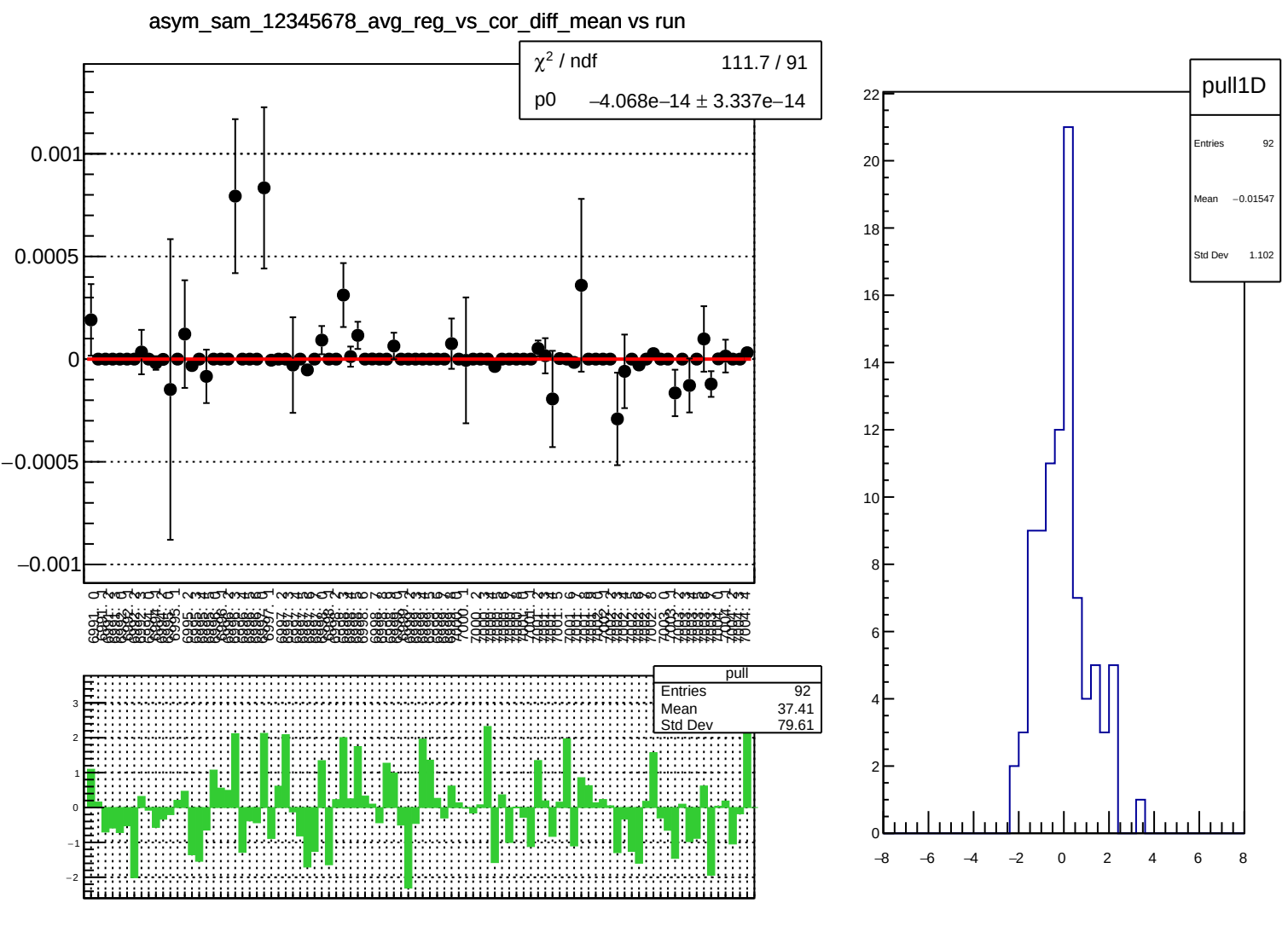

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2826 / 91
p0 65.62 ± 0.04943
80
75
70
65
60

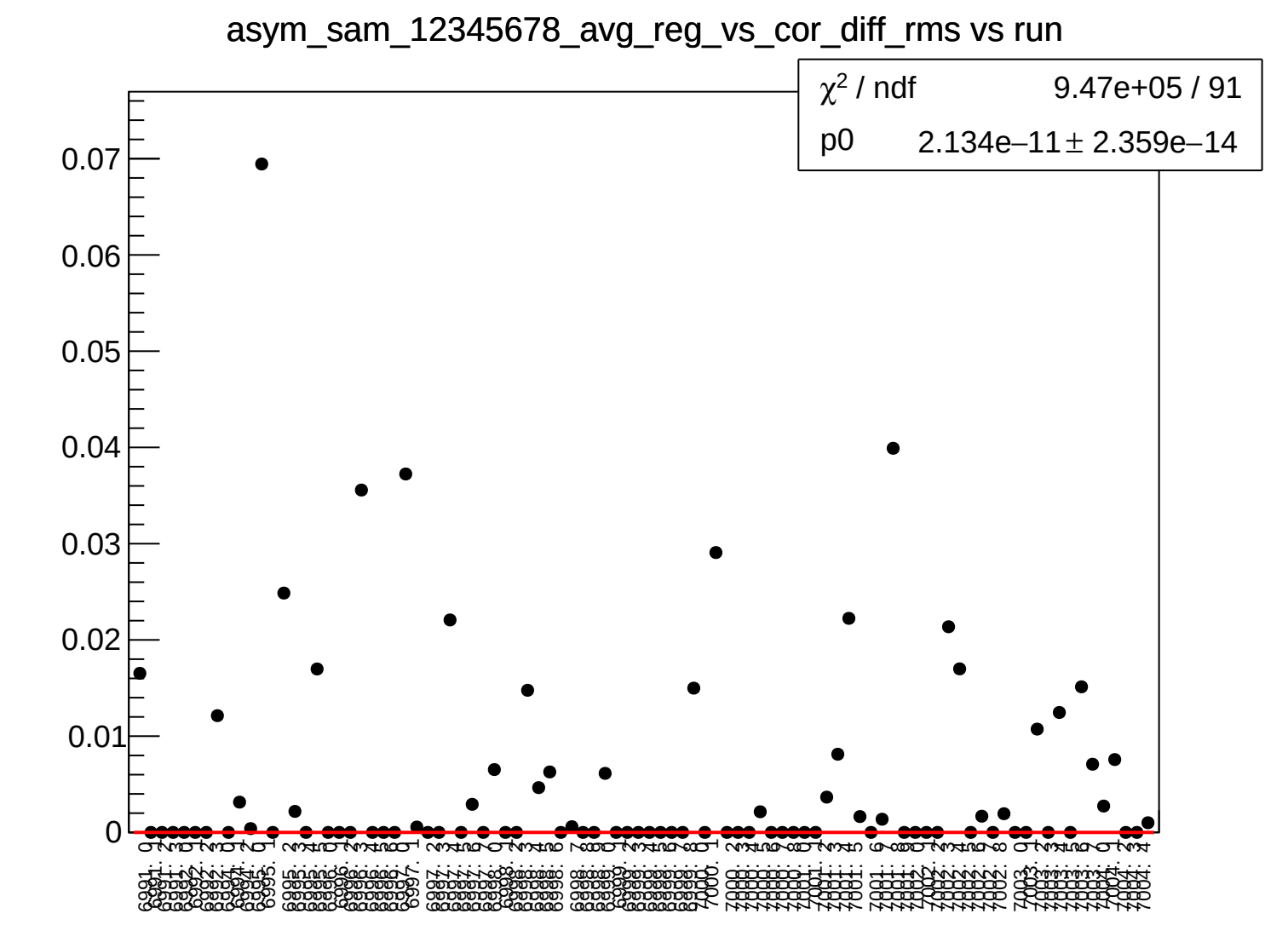

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.45 / 91
p0 −611 ± 680.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1201
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.002509
Std Dev 0.9637
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

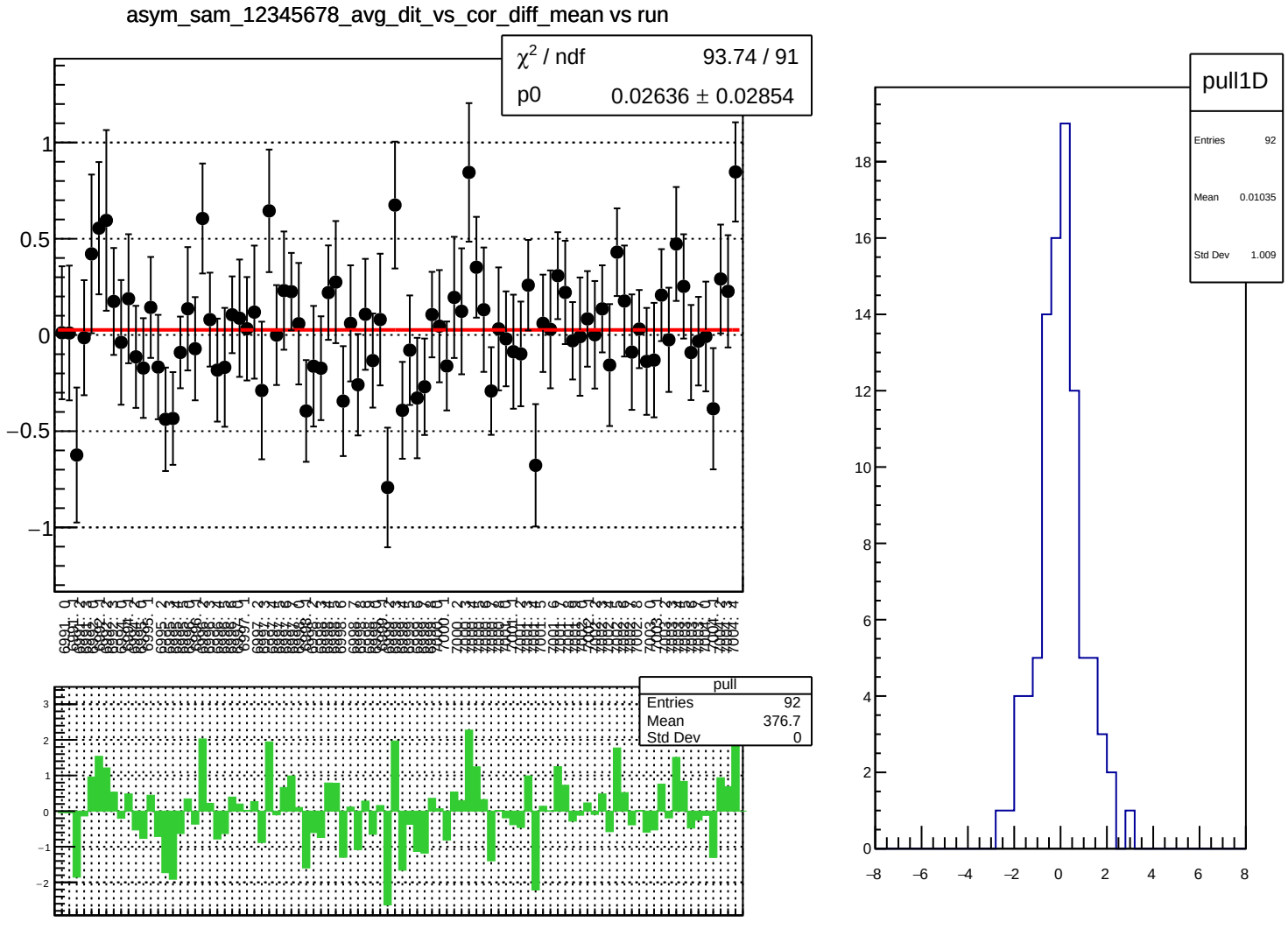

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 2969 / 91
p0 639.1 ± 0.4815
720
700
680
660
640
620
600
580

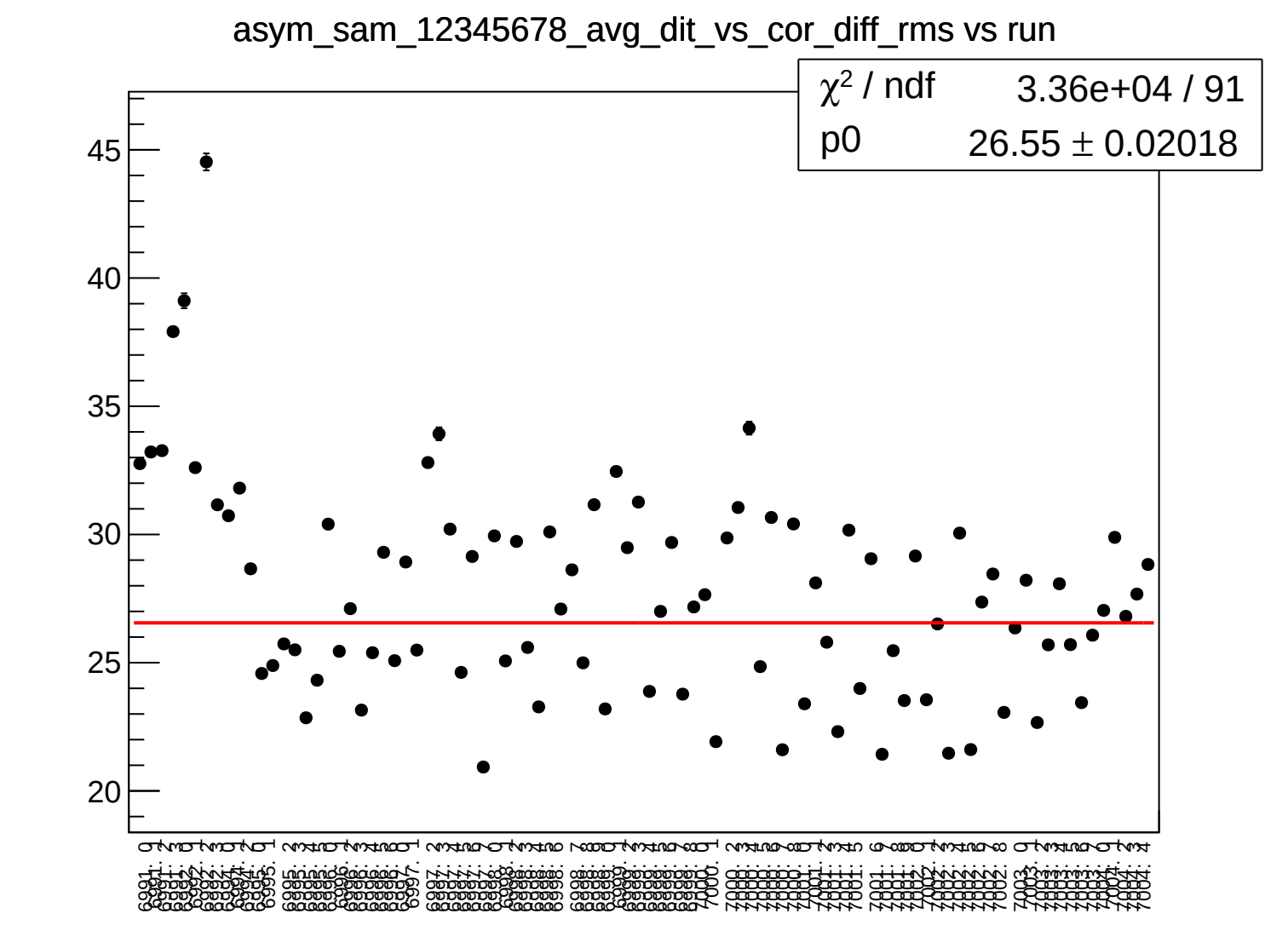

asym_sam_12345678_avg_mean vs run
χ² / ndf 87.89 / 91
p0 634.9 ± 672.4
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −771
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003306
Std Dev 0.9774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

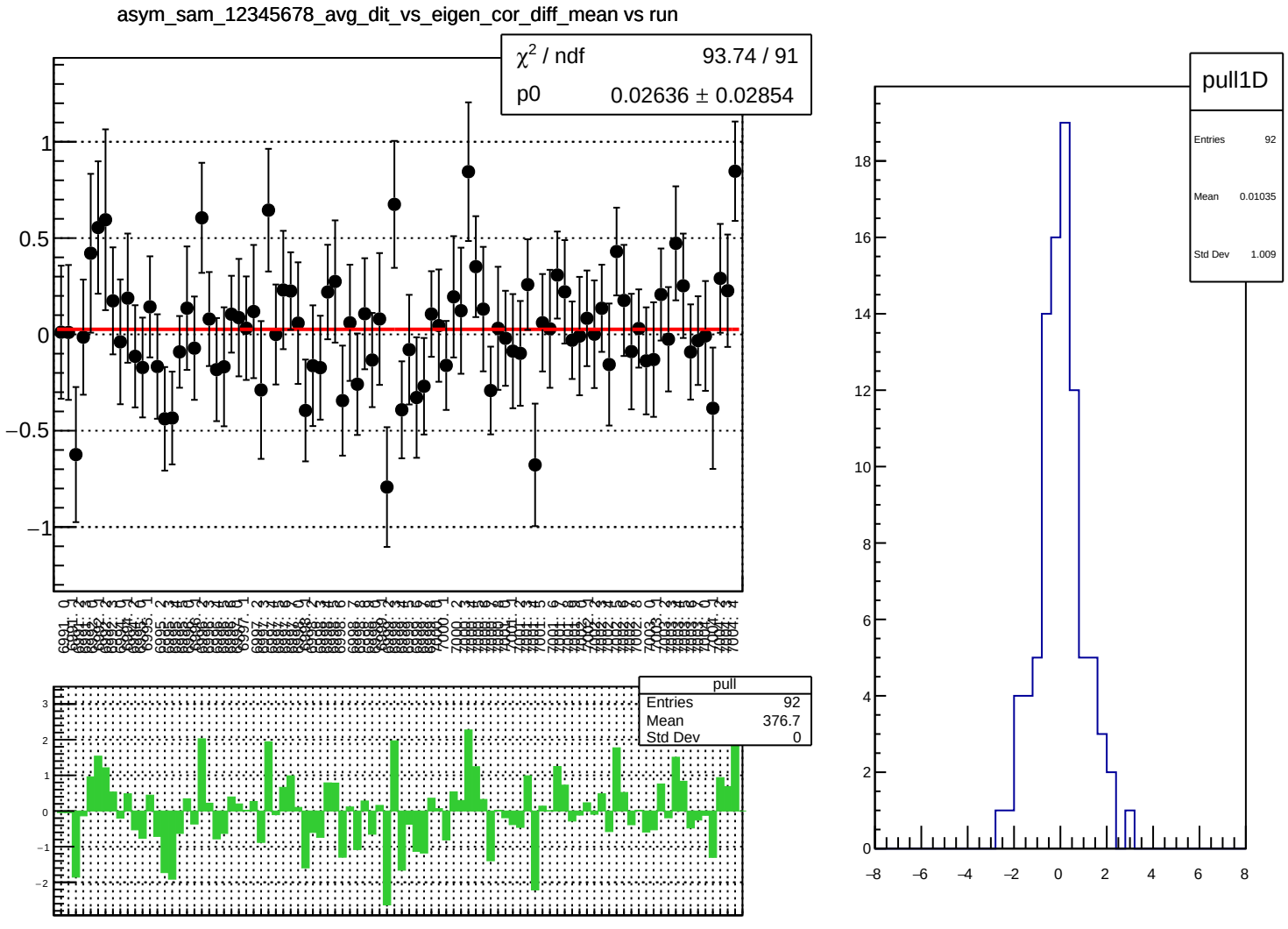

asym_sam_12345678_avg_rms vs run
χ² / ndf 5030 / 91
p0 630.8 ± 0.4755
750
700
650
600
550

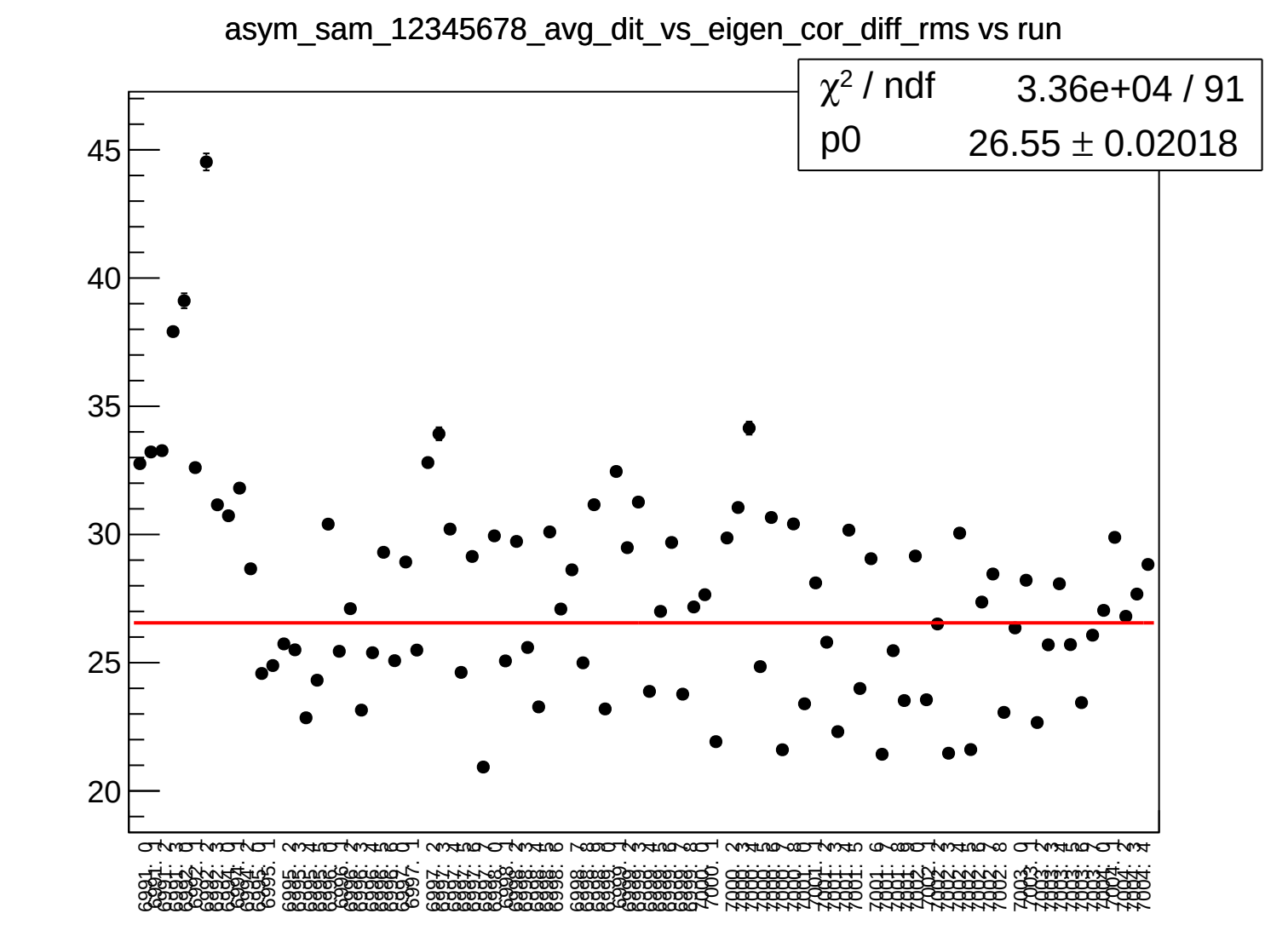

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 111.7 / 91
p0 −4.068e−14 ± 3.337e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 37.41
Std Dev 79.61
pull1D
Entries 92
Mean −0.01547
Std Dev 1.102

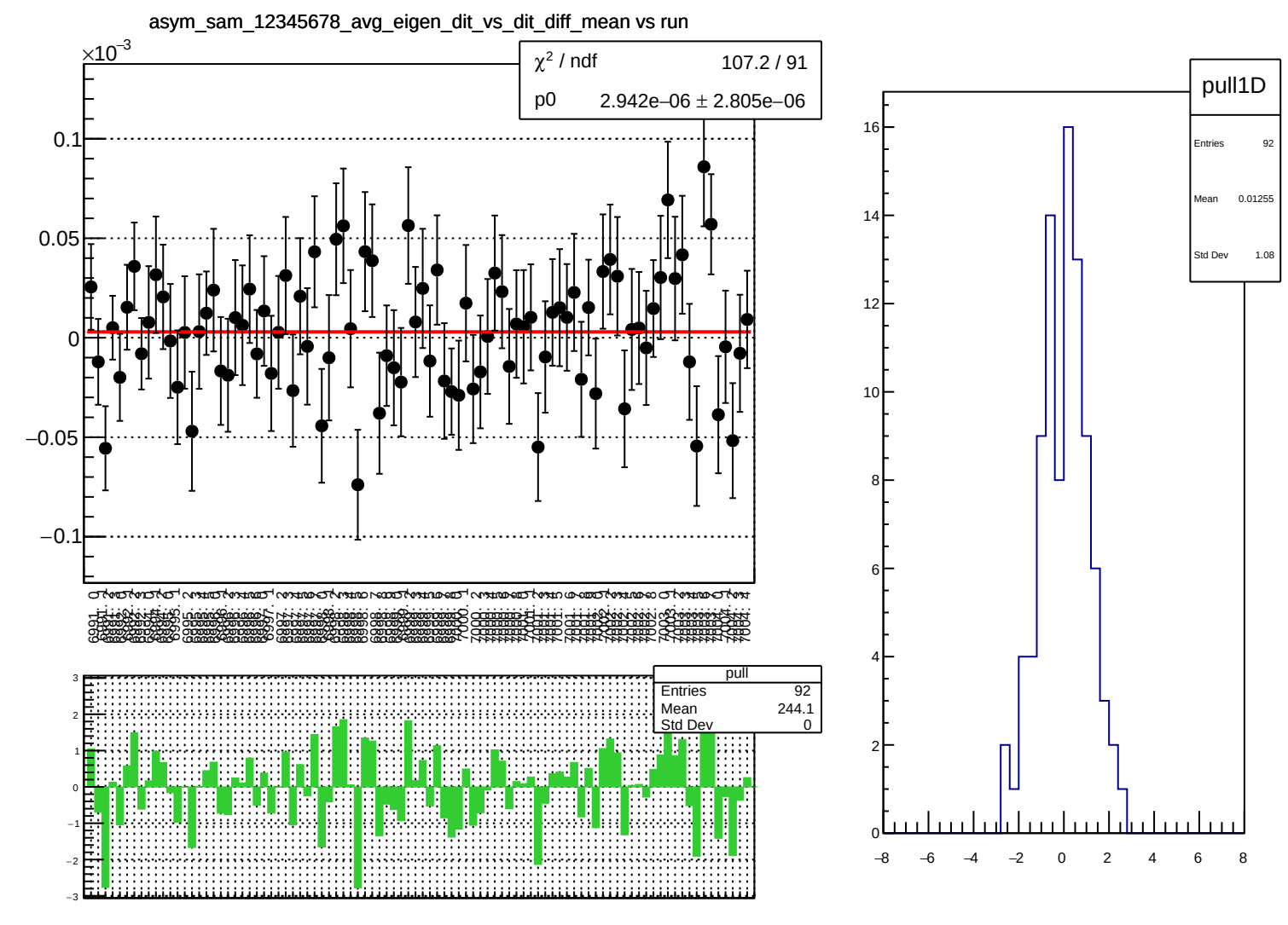

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.47e+05 / 91
p0 2.134e−11 ± 2.359e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

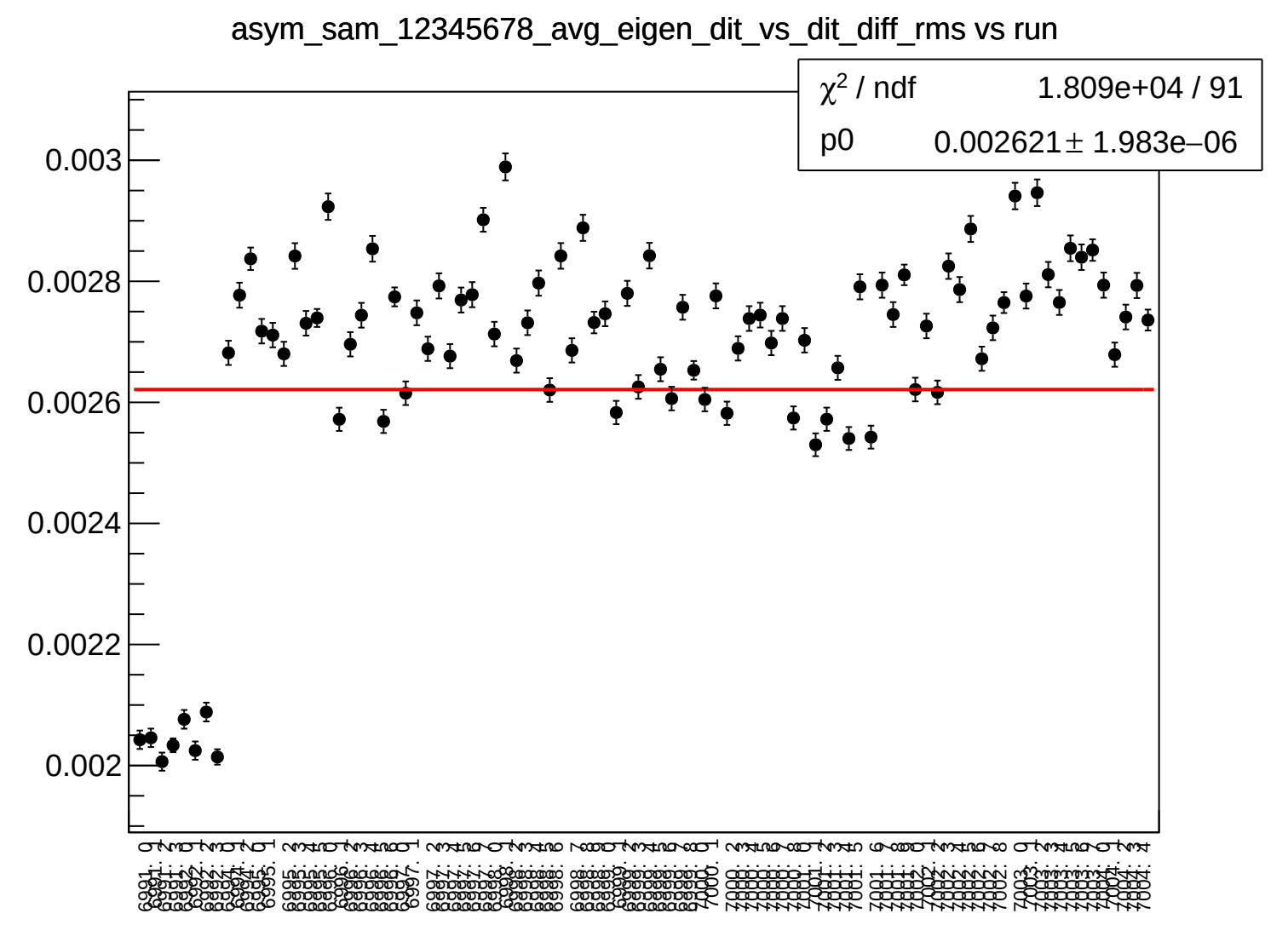

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.74 / 91
p0 0.02636 ± 0.02854
pull
Entries 92
Mean 376.7
Std Dev 0
pull1D
Entries 92
Mean 0.01035
Std Dev 1.009

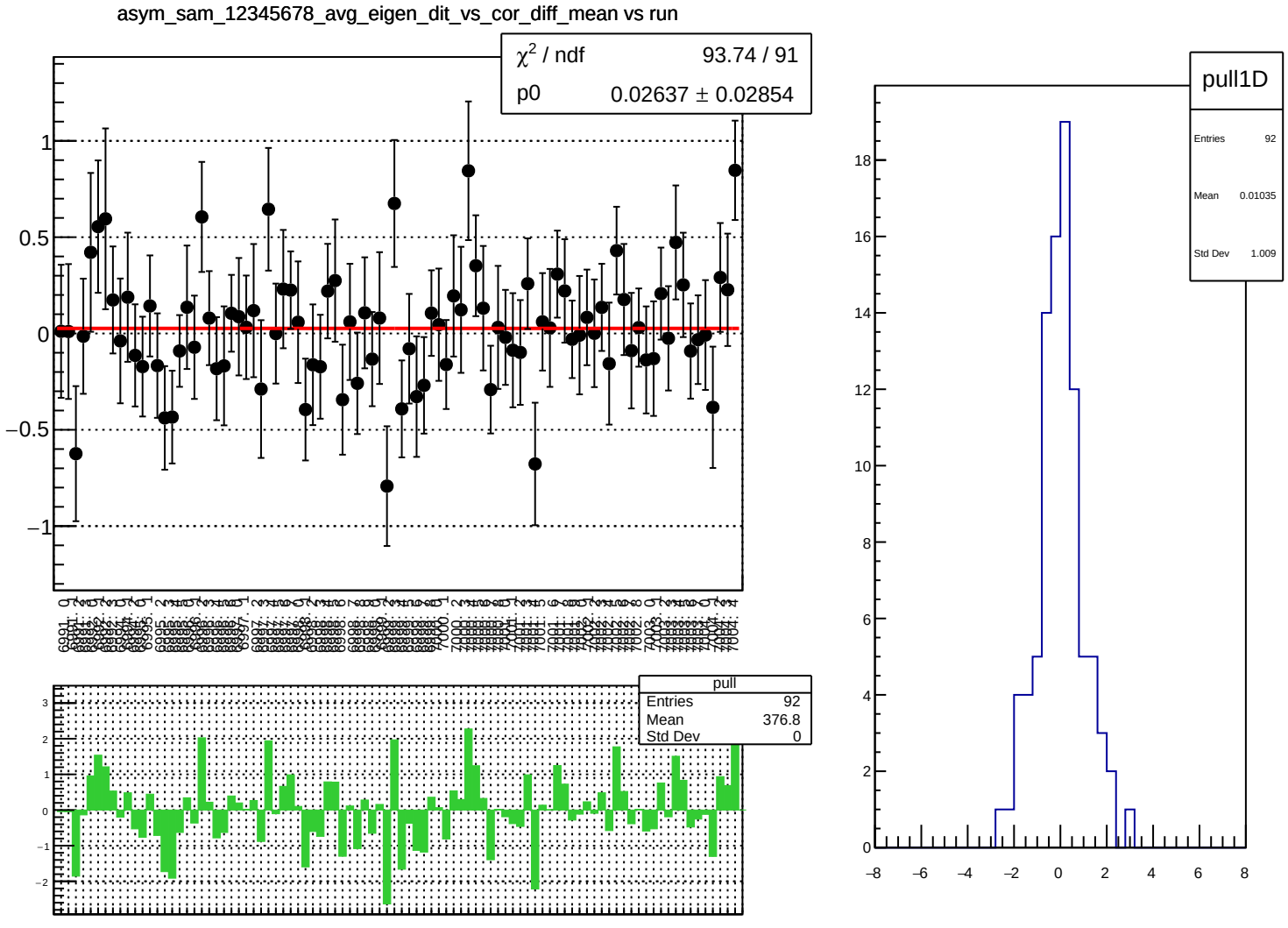

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.36e+04 / 91
p0 26.55 ± 0.02018
45
40
35
30
25
20

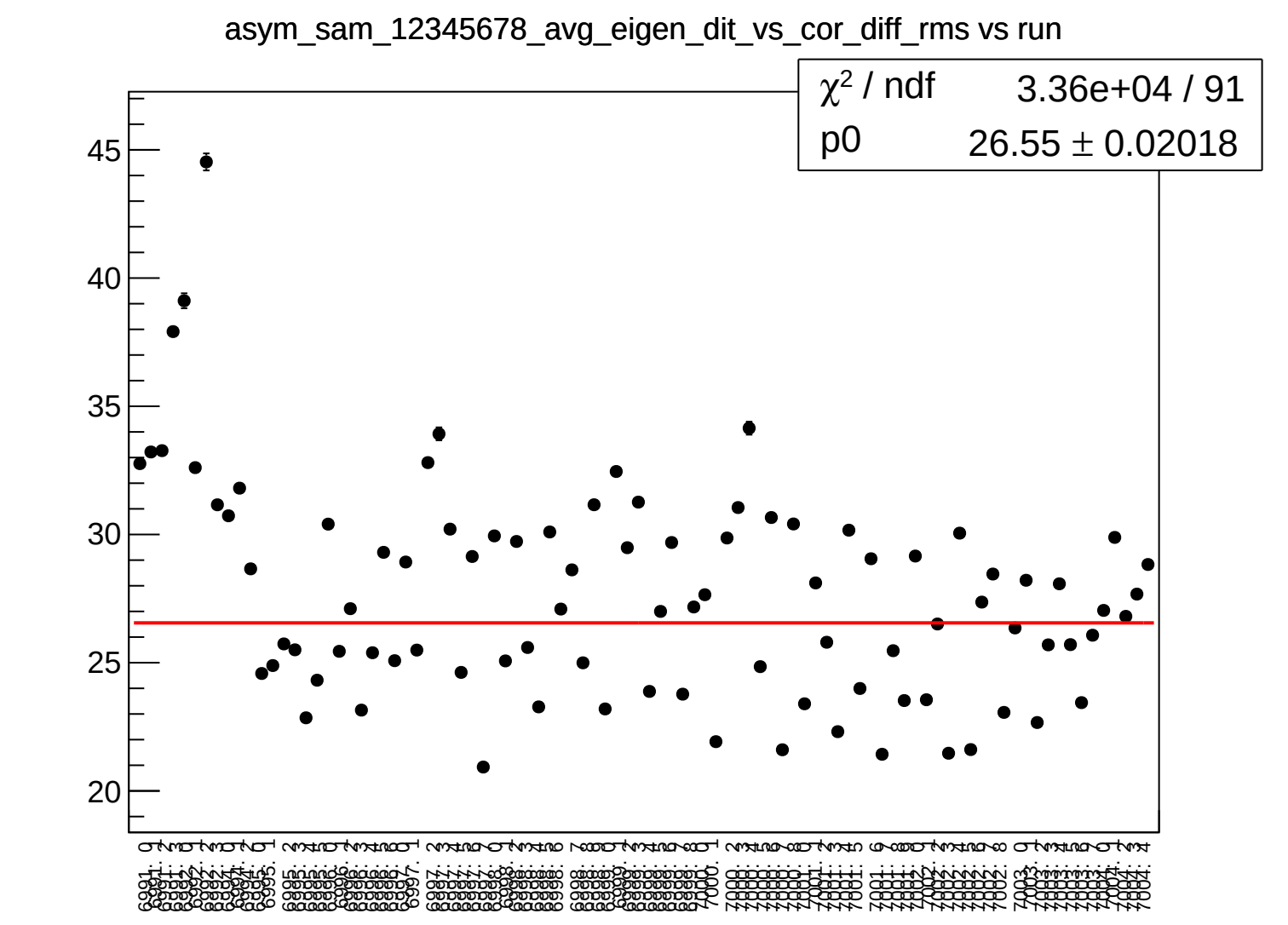

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.74 / 91
p0 0.02636 ± 0.02854
pull
Entries 92
Mean 376.7
Std Dev 0
pull1D
Entries 92
Mean 0.01035
Std Dev 1.009

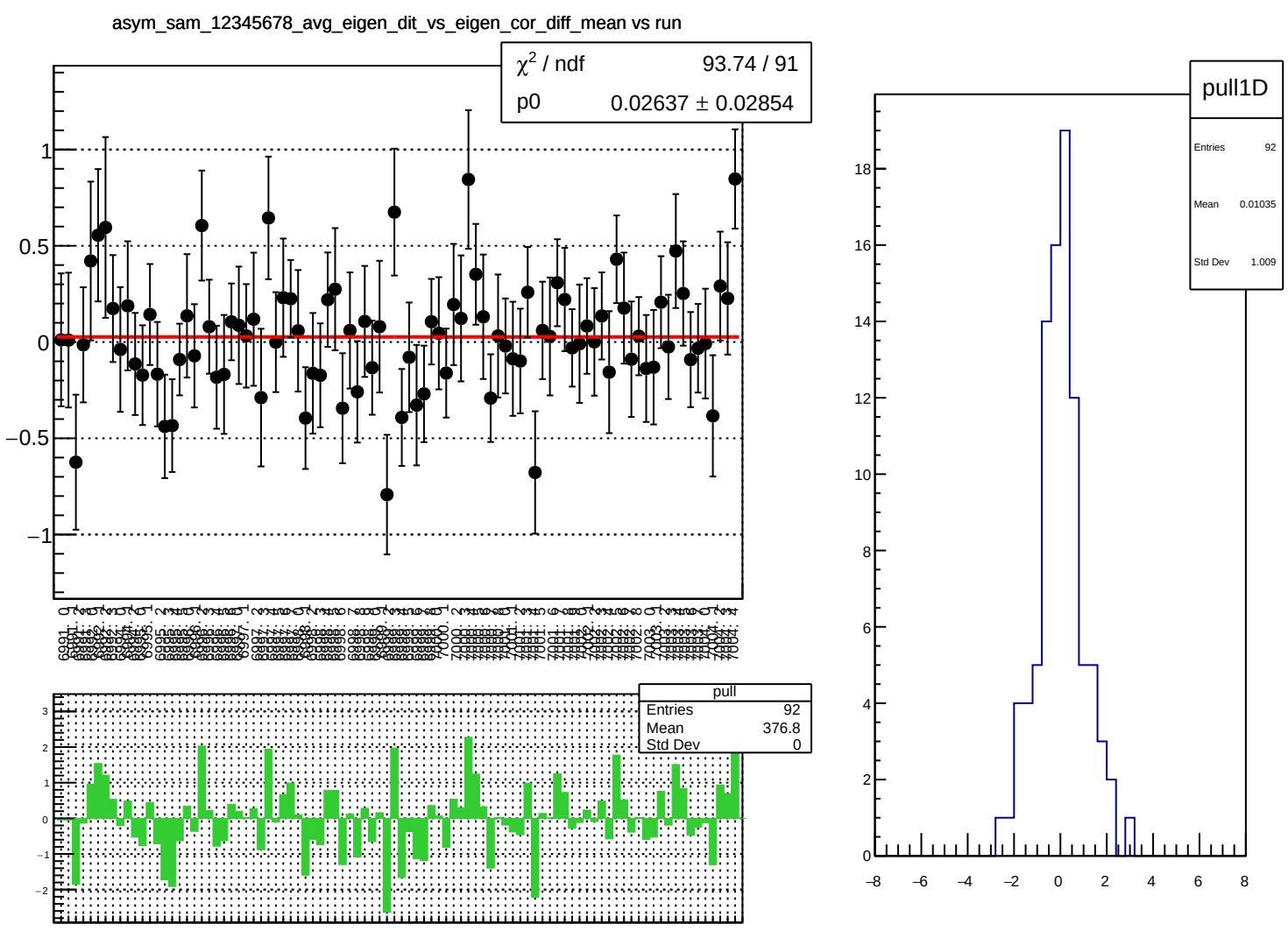

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.36e+04 / 91
p0 26.55 ± 0.02018
45
40
35
30
25
20

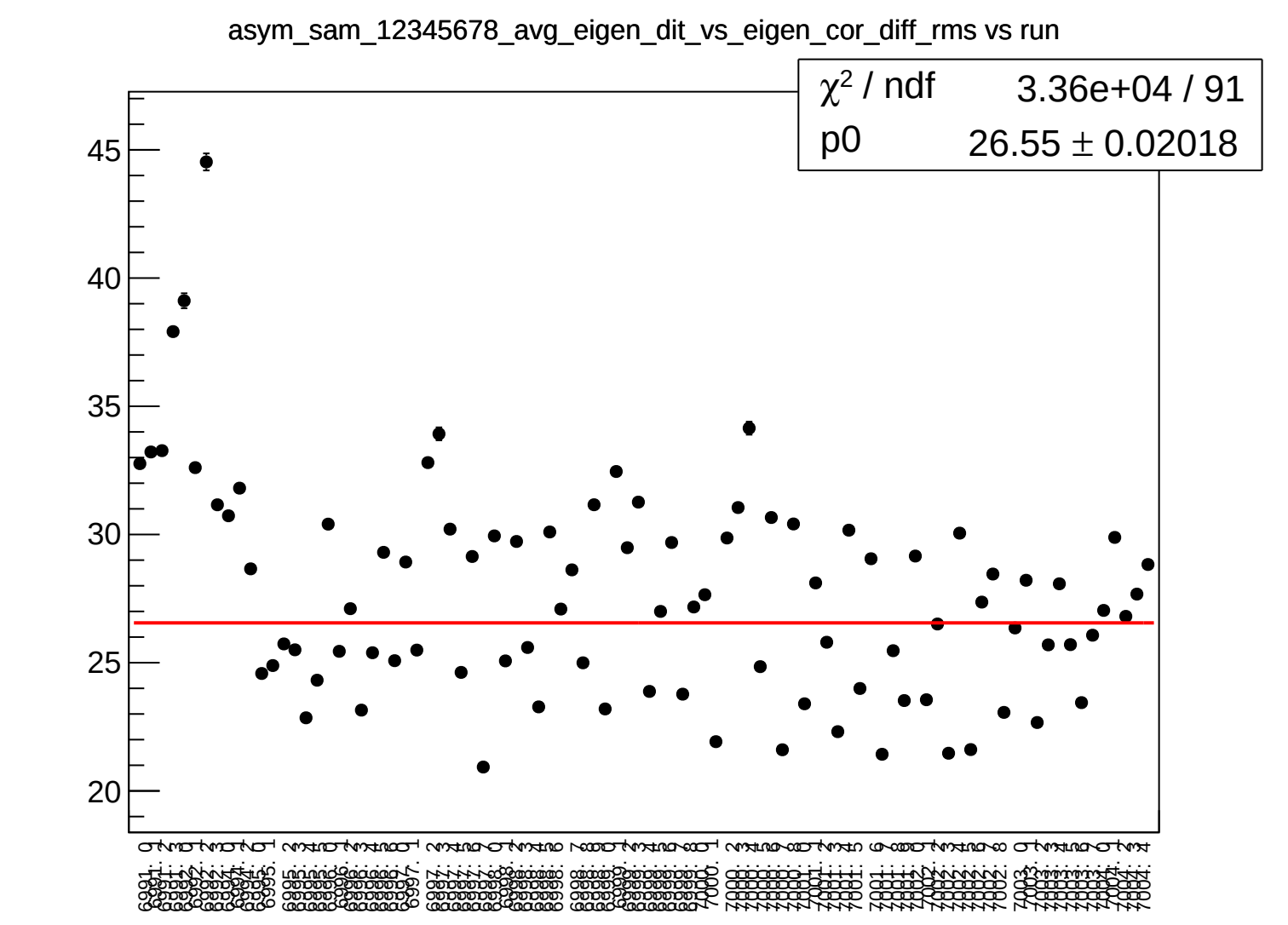

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.2 / 91
p0 2.942e−06 ± 2.805e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 244.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01255
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.809e+04 / 91
p0 0.002621 ± 1.983e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

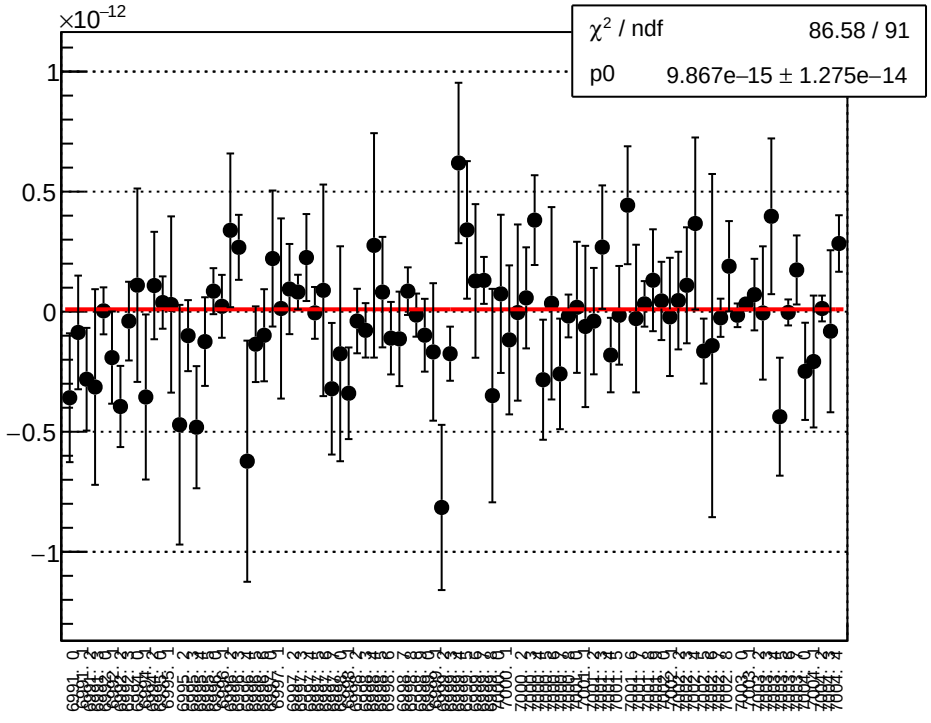

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.74 / 91
p0 0.02637 ± 0.02854
pull
Entries 92
Mean 376.8
Std Dev 0
pull1D
Entries 92
Mean 0.01035
Std Dev 1.009

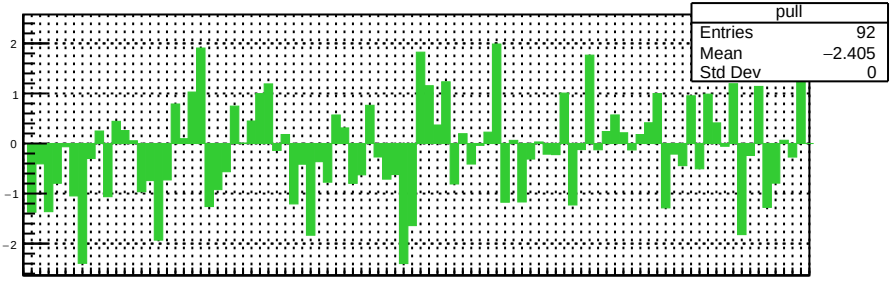

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.36e+04 / 91
p0 26.55 ± 0.02018
45
40
35
30
25
20

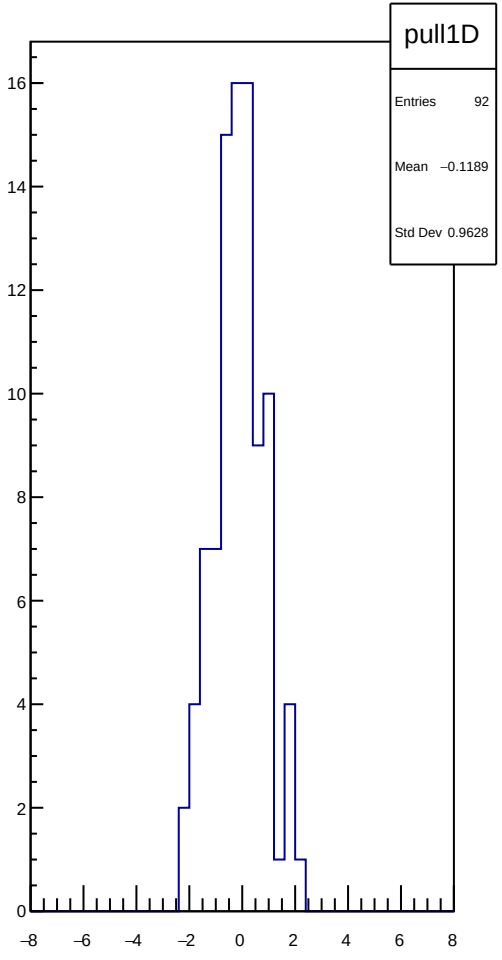

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.74 / 91
p0 0.02637 ± 0.02854
pull
Entries 92
Mean 376.8
Std Dev 0
pull1D
Entries 92
Mean 0.01035
Std Dev 1.009

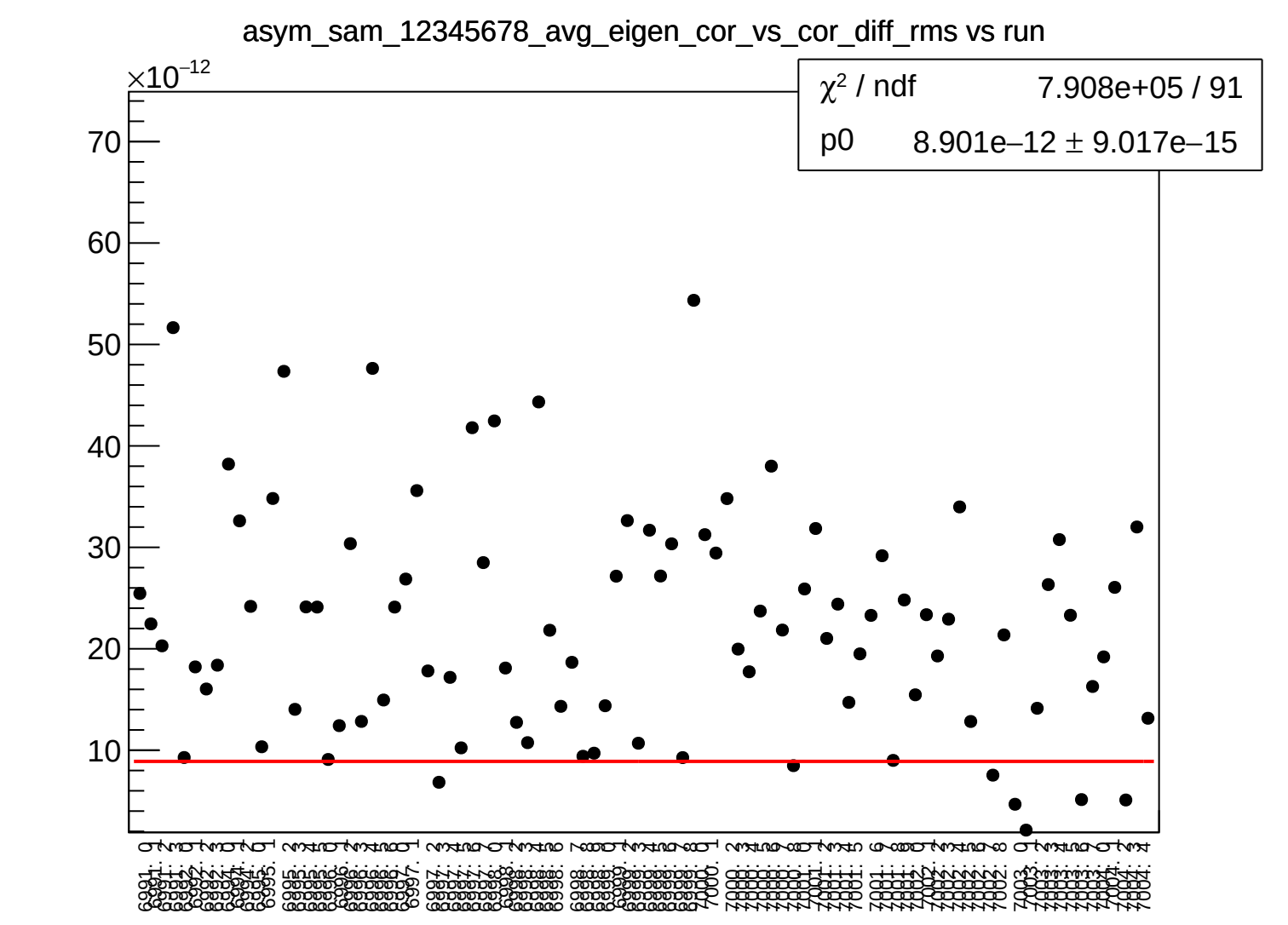

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.36e+04 / 91
p0 26.55 ± 0.02018
45
40
35
30
25
20

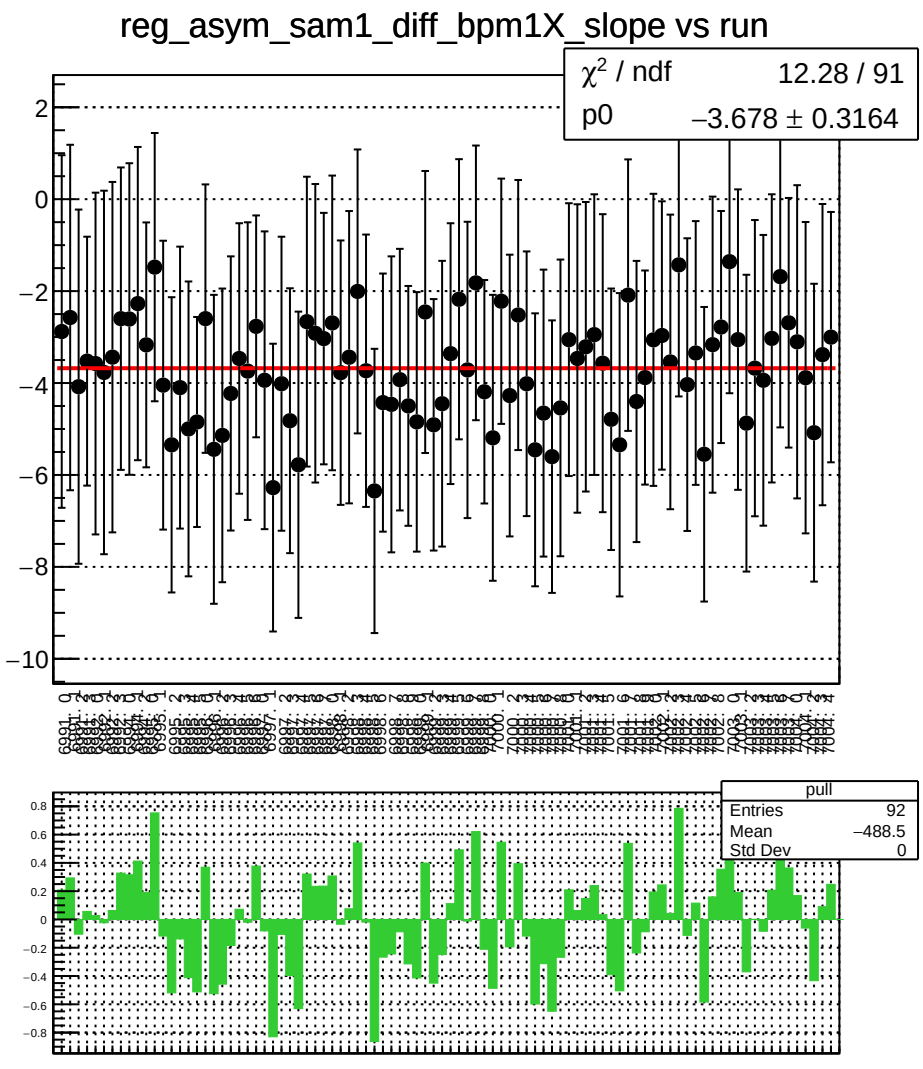
asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run

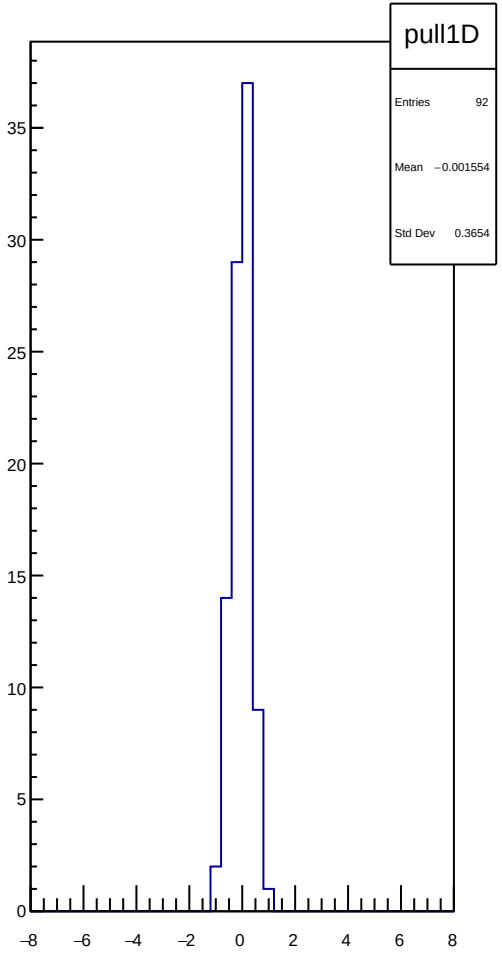


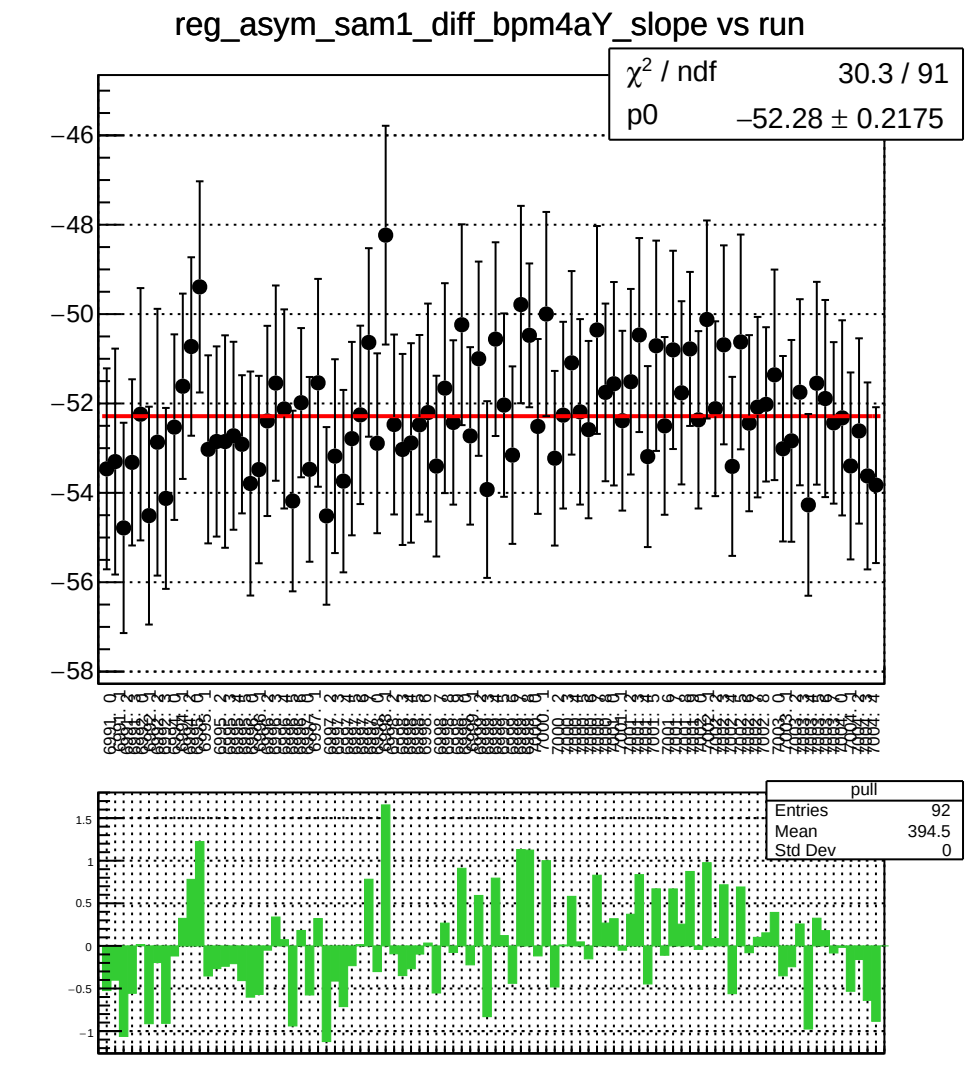


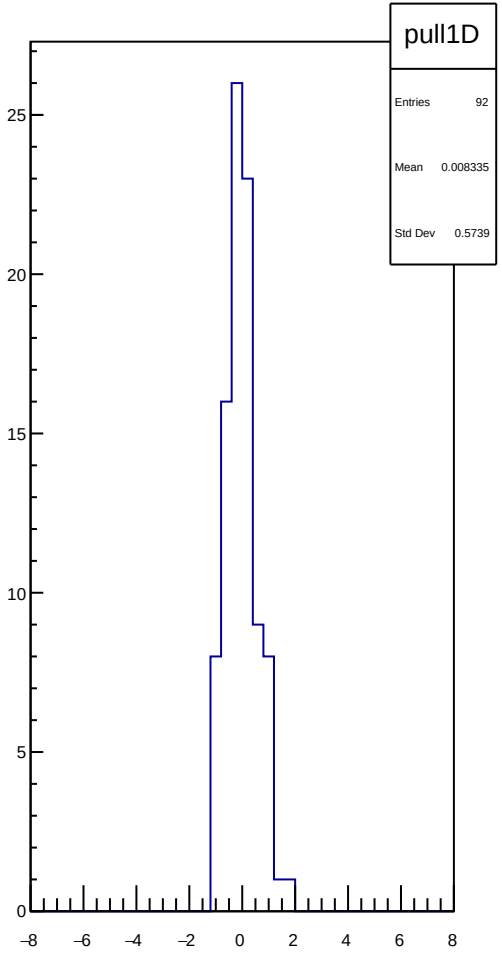


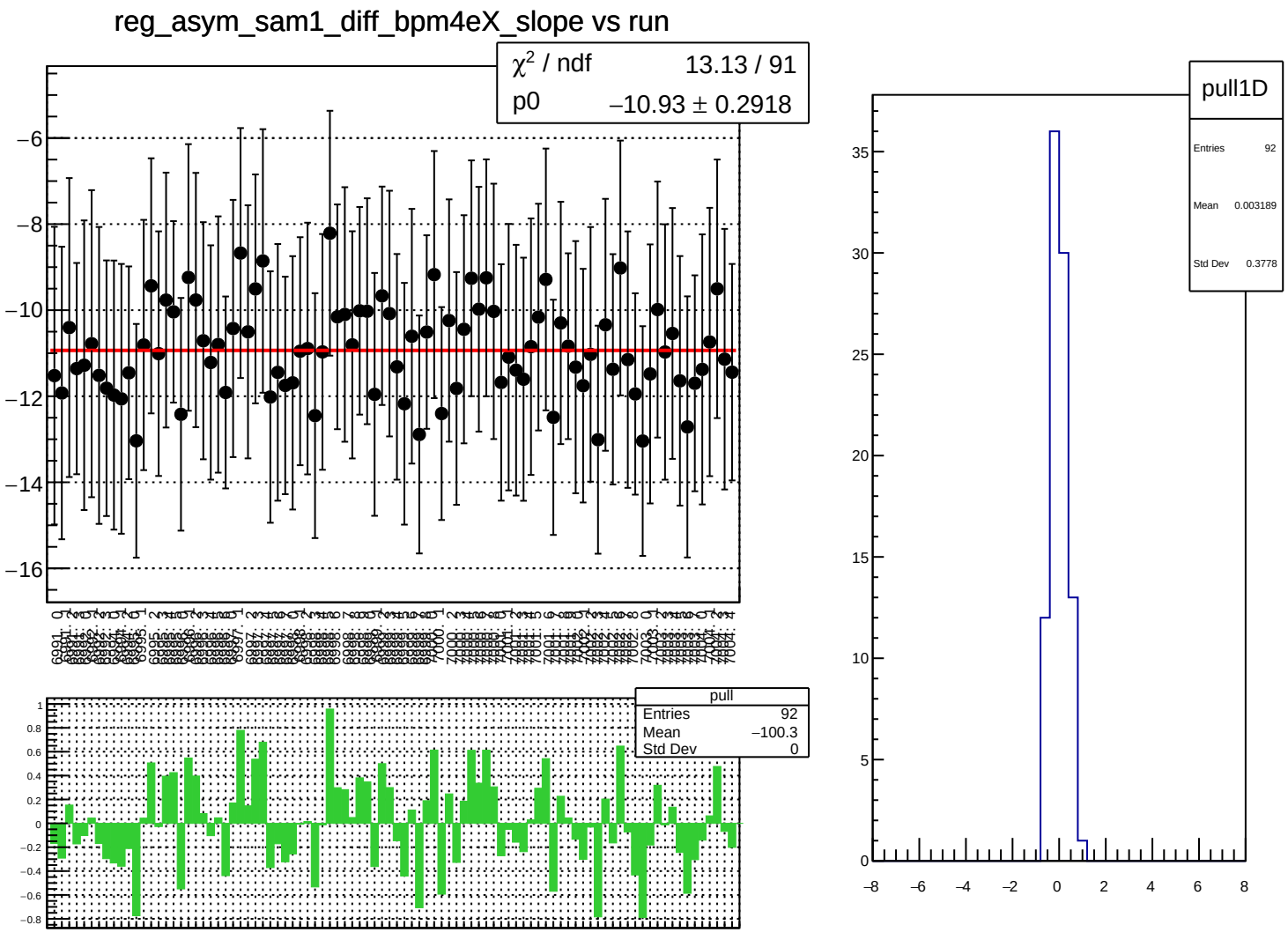

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 7.908e+05 / 91
p0 8.901e−12 ± 9.017e−15

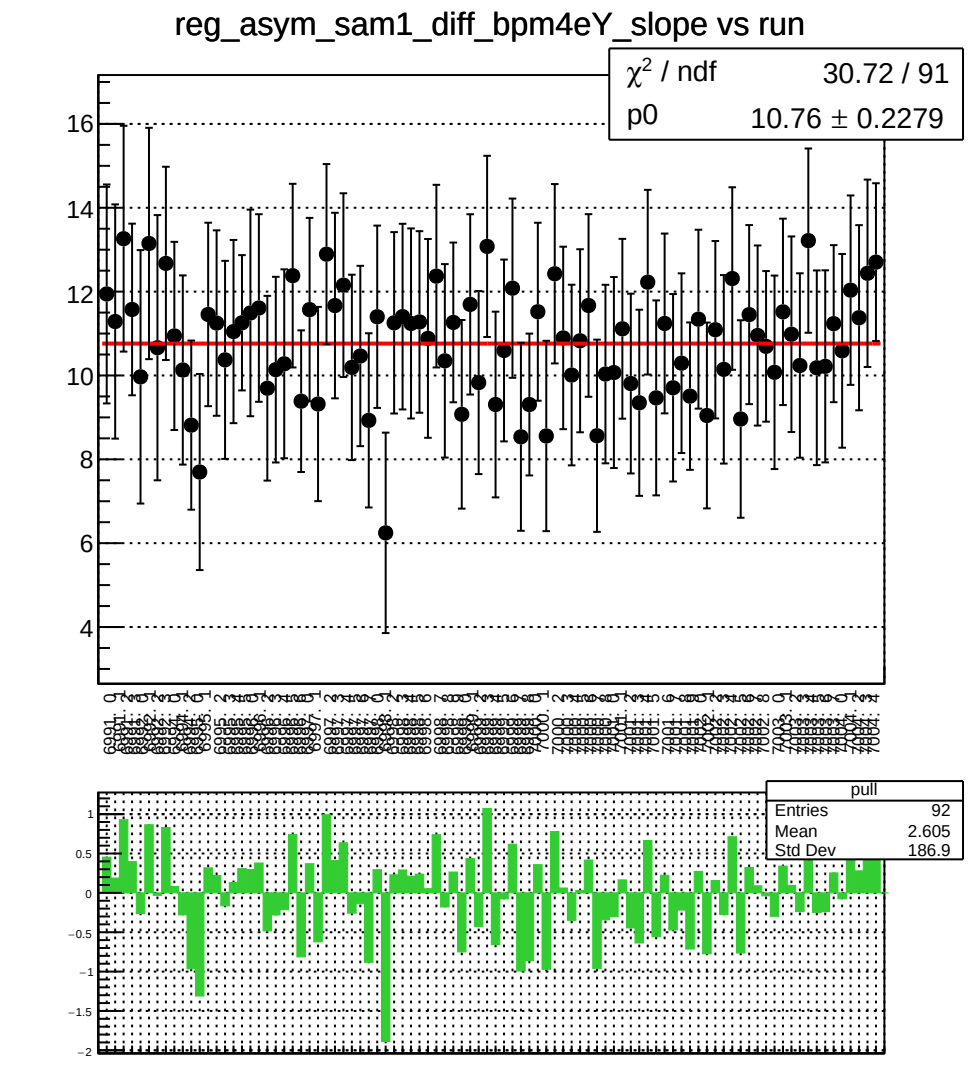

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 12.28 / 91
p0 −3.678 ± 0.3164
pull
Entries 92
Mean −488.5
Std Dev 0

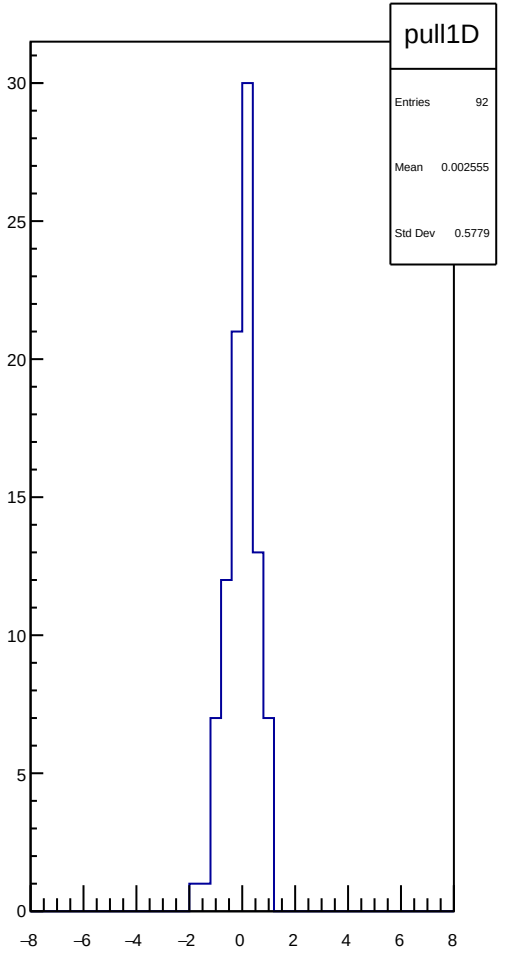

pull1D
Entries 92
Mean −0.001554
Std Dev 0.3654

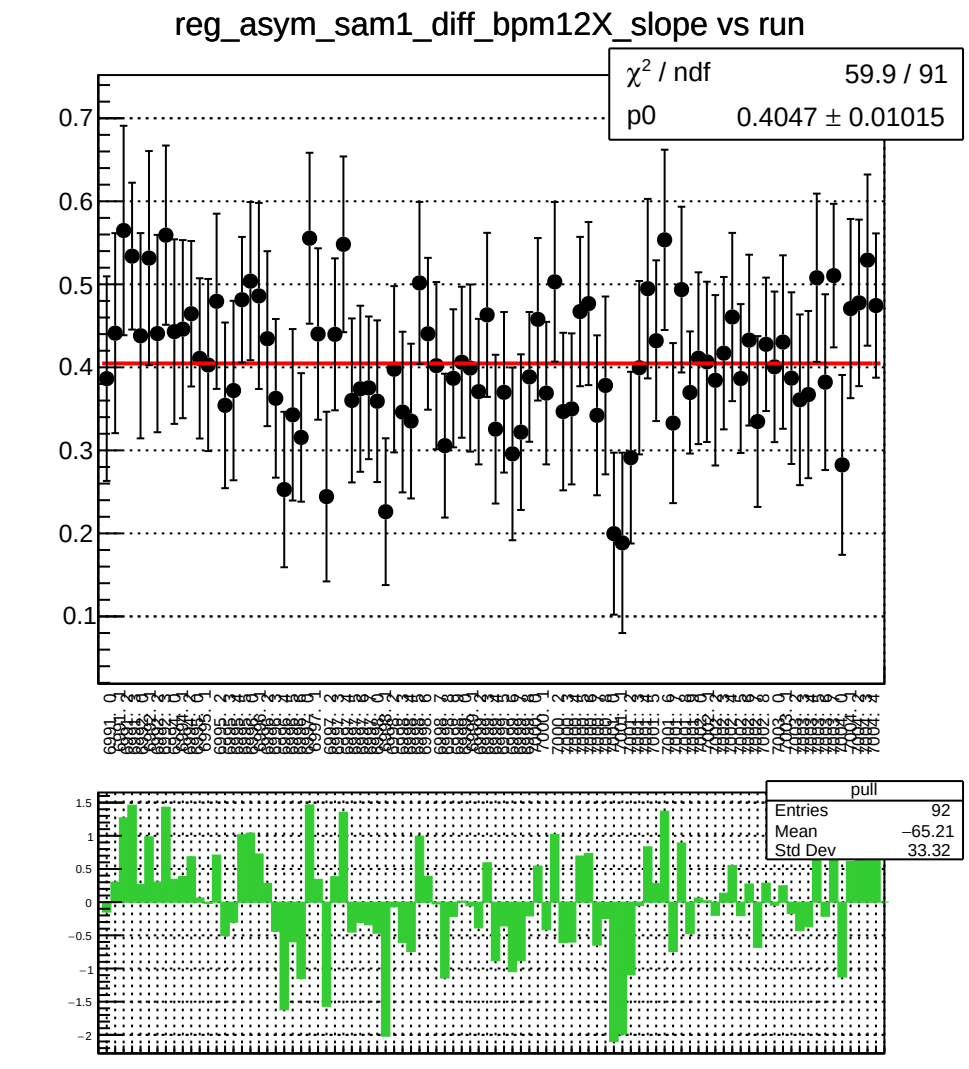

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 30.3 / 91
p0 −52.28 ± 0.2175
pull
Entries 92
Mean 394.5
Std Dev 0

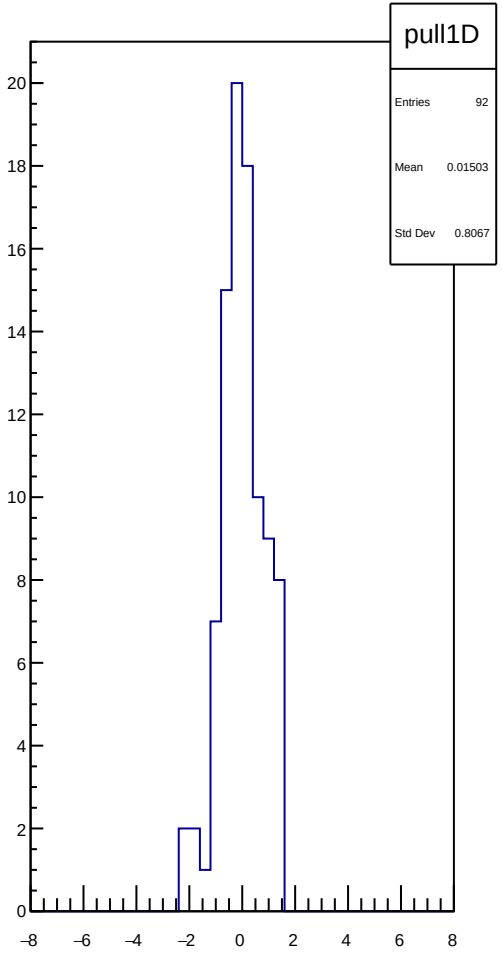

pull1D
Entries 92
Mean 0.008335
Std Dev 0.5739

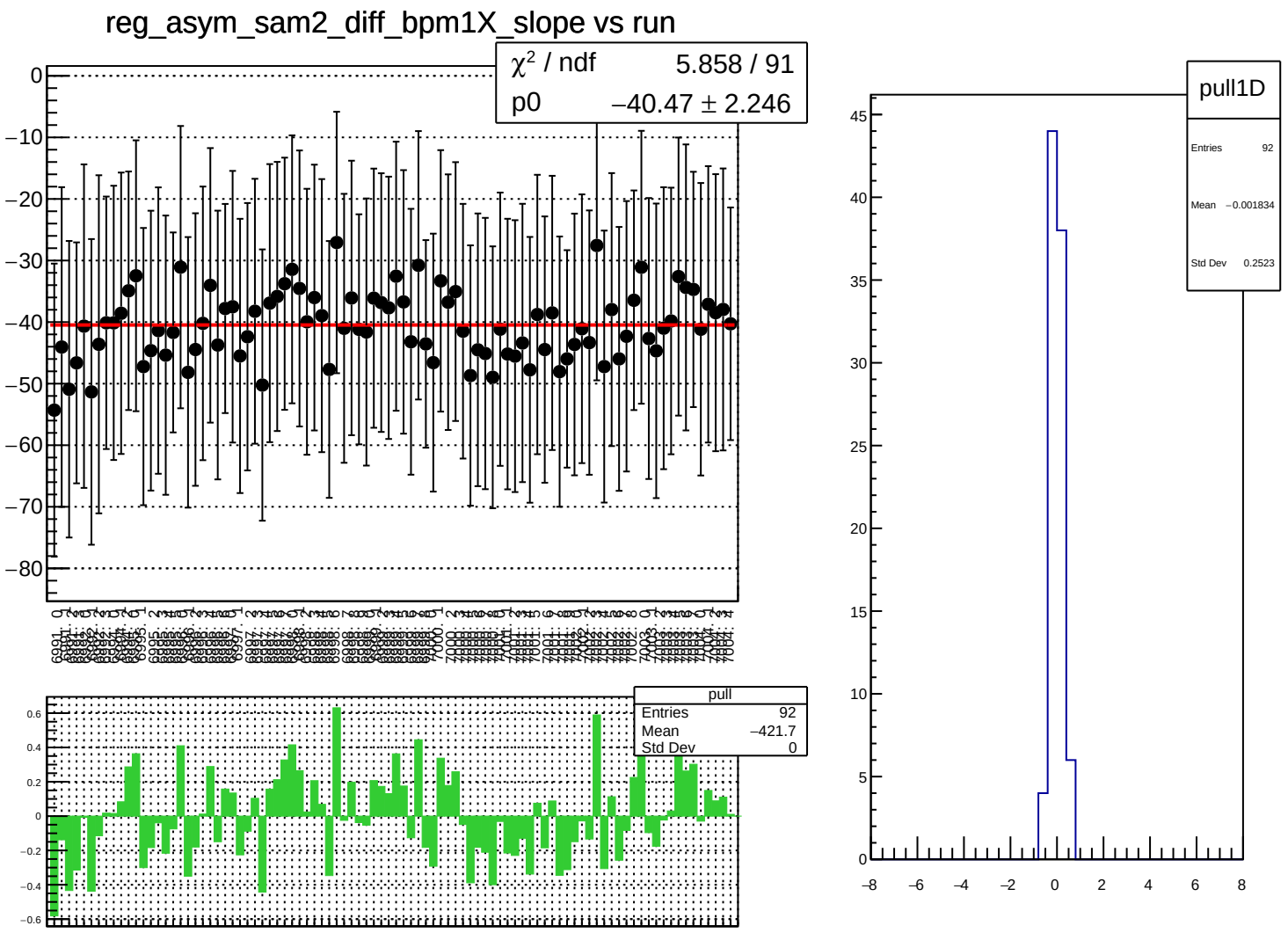

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 13.13 / 91
p0 −10.93 ± 0.2918
pull
Entries 92
Mean −100.3
Std Dev 0
pull1D
Entries 92
Mean 0.003189
Std Dev 0.3778

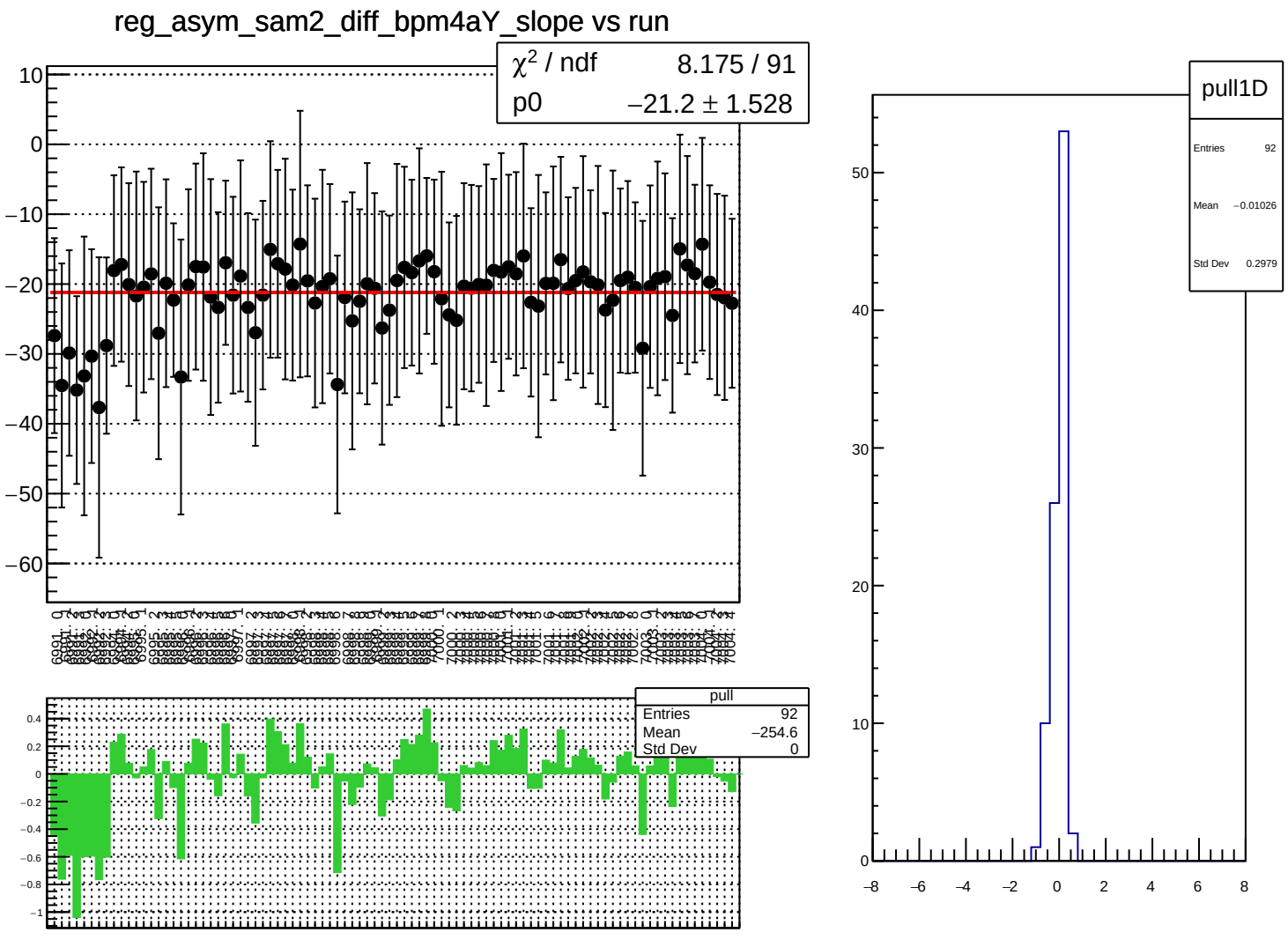

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 30.72 / 91
p0 10.76 ± 0.2279
pull
Entries 92
Mean 2.605
Std Dev 186.9

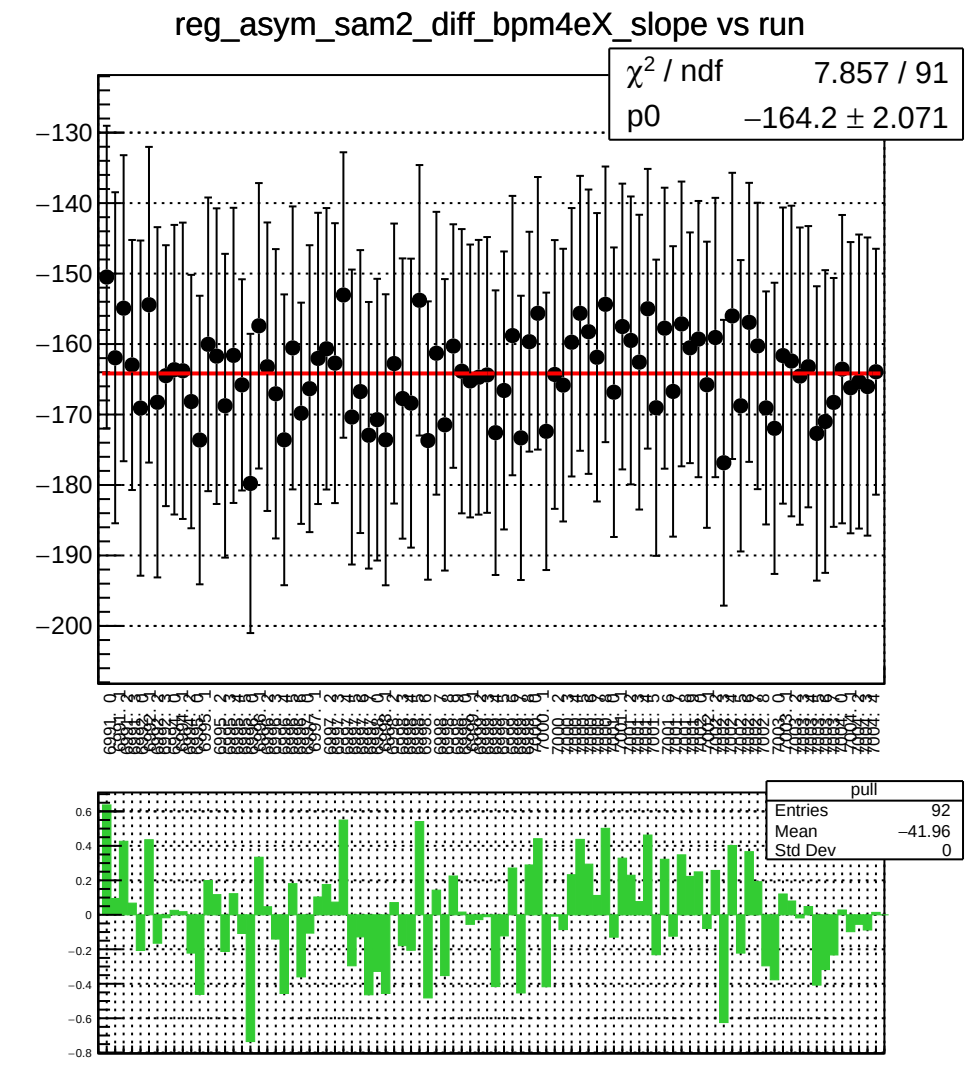

pull1D
Entries 92
Mean 0.002555
Std Dev 0.5779

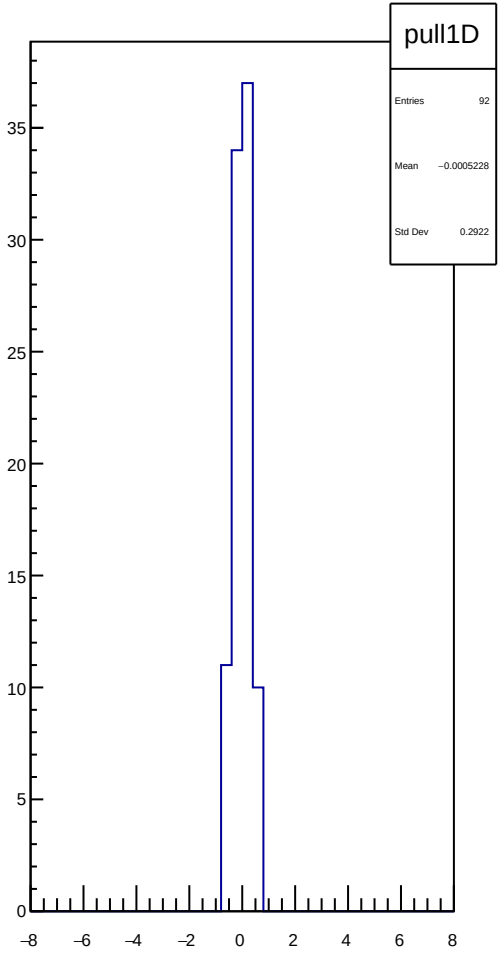

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 59.9 / 91
p0 0.4047 ± 0.01015
pull
Entries 92
Mean −65.21
Std Dev 33.32

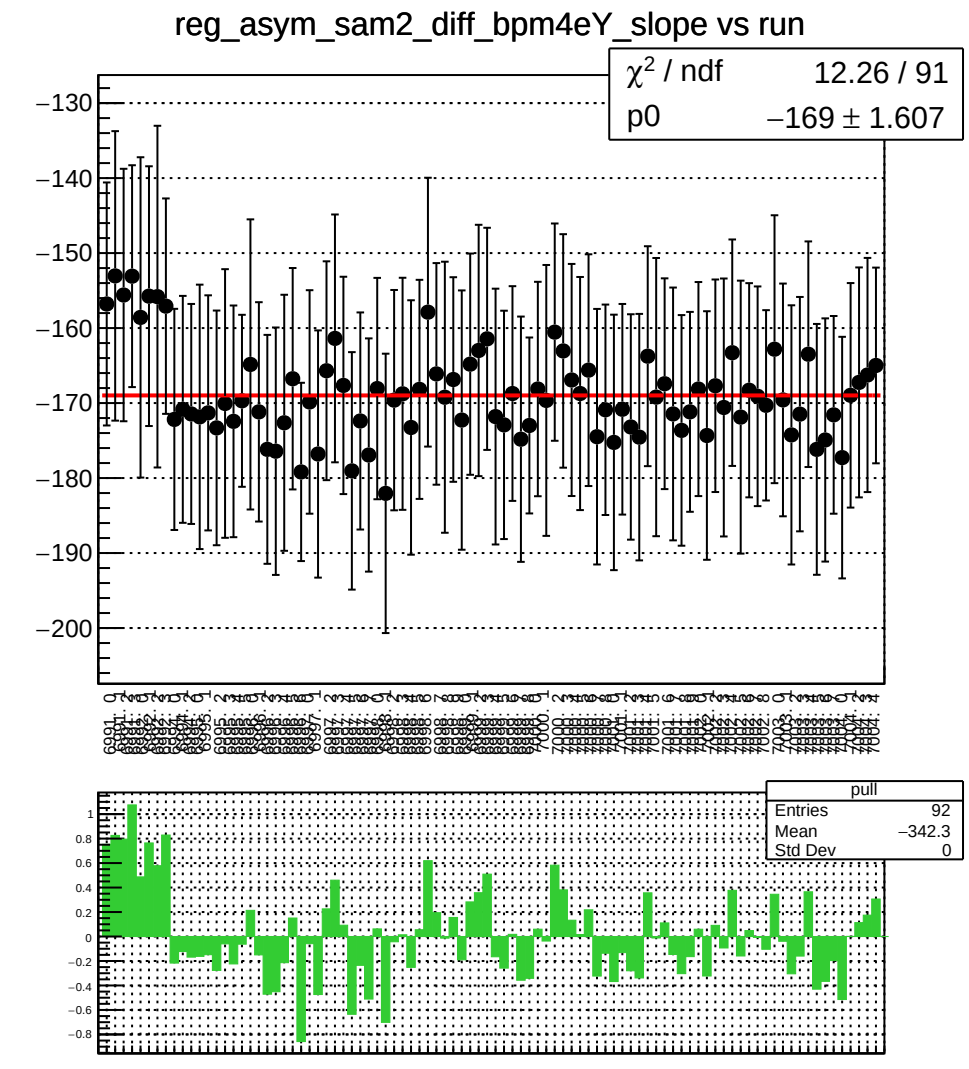

pull1D
Entries 92
Mean 0.01503
Std Dev 0.8067

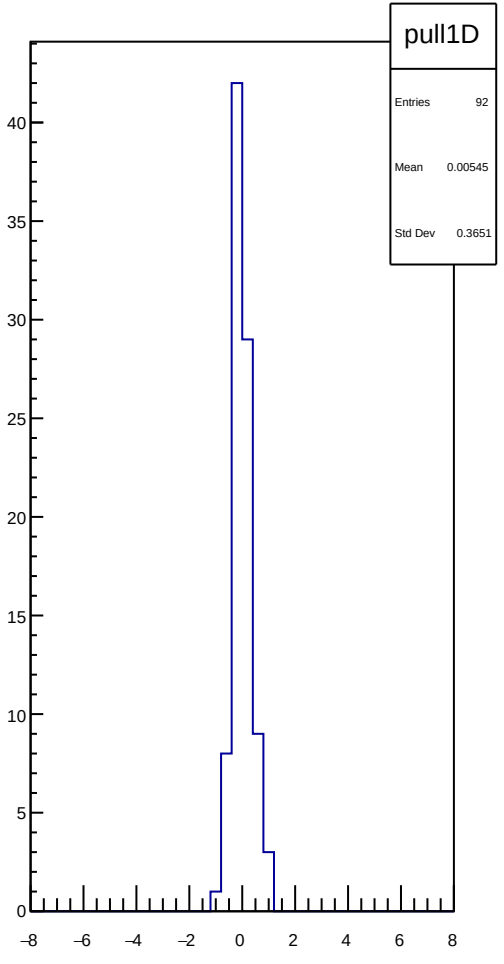

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 5.858 / 91
p0 −40.47 ± 2.246
pull
Entries 92
Mean −421.7
Std Dev 0
pull1D
Entries 92
Mean −0.001834
Std Dev 0.2523

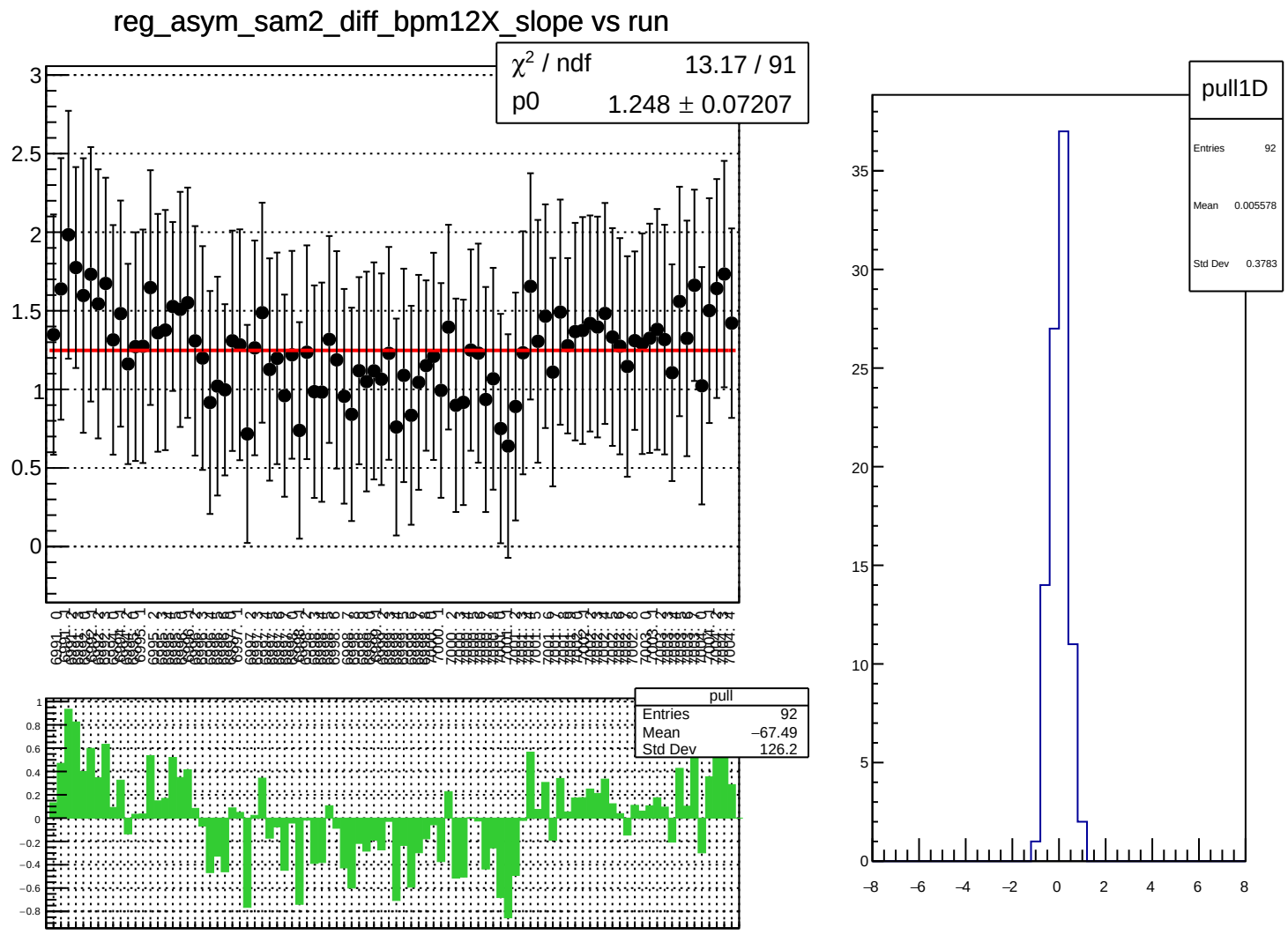

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 8.175 / 91
p0 −21.2 ± 1.528
pull
Entries 92
Mean −254.6
Std Dev 0
pull1D
Entries 92
Mean −0.01026
Std Dev 0.2979

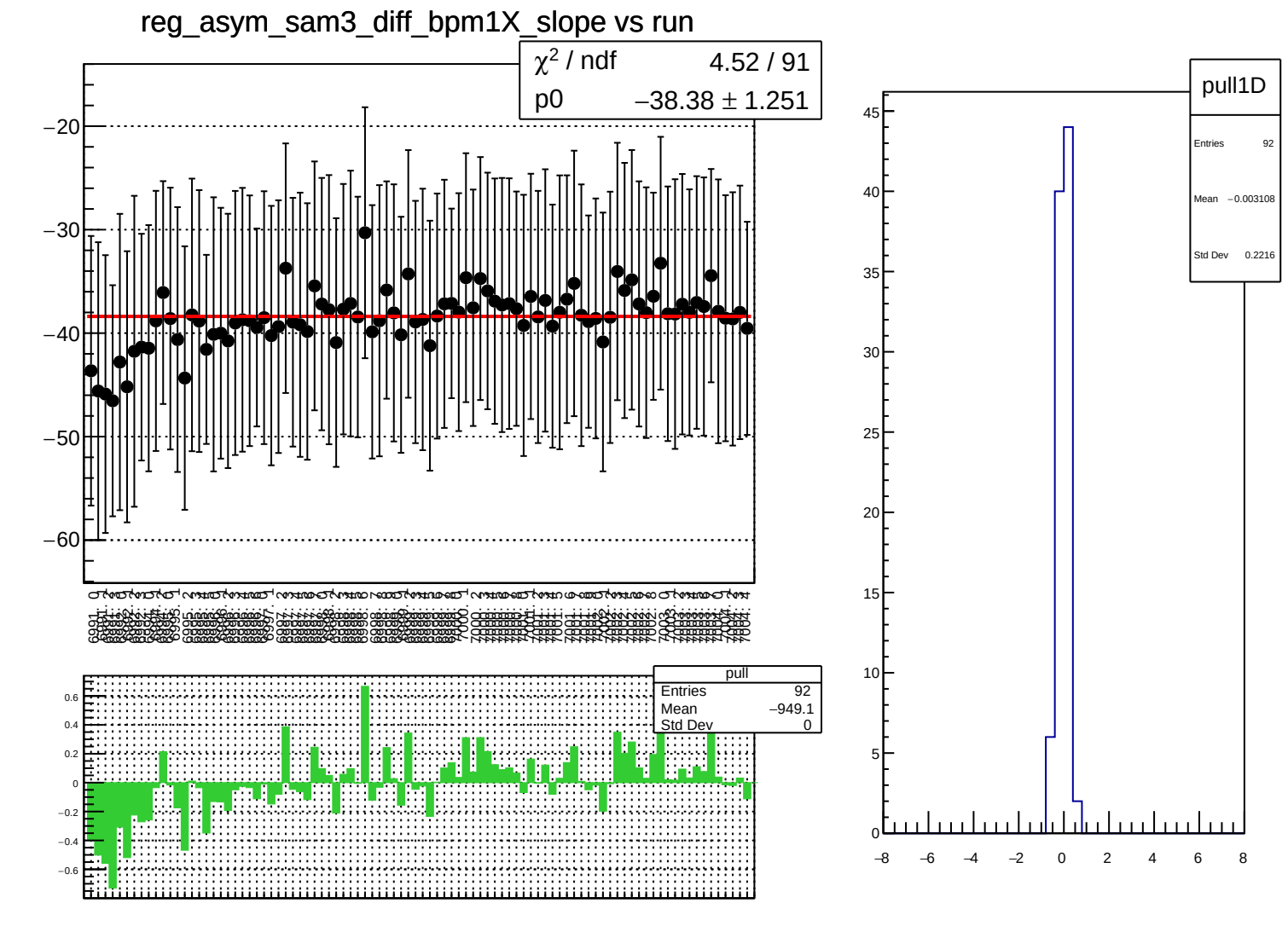

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 7.857 / 91
p0 −164.2 ± 2.071
pull
Entries 92
Mean −41.96
Std Dev 0

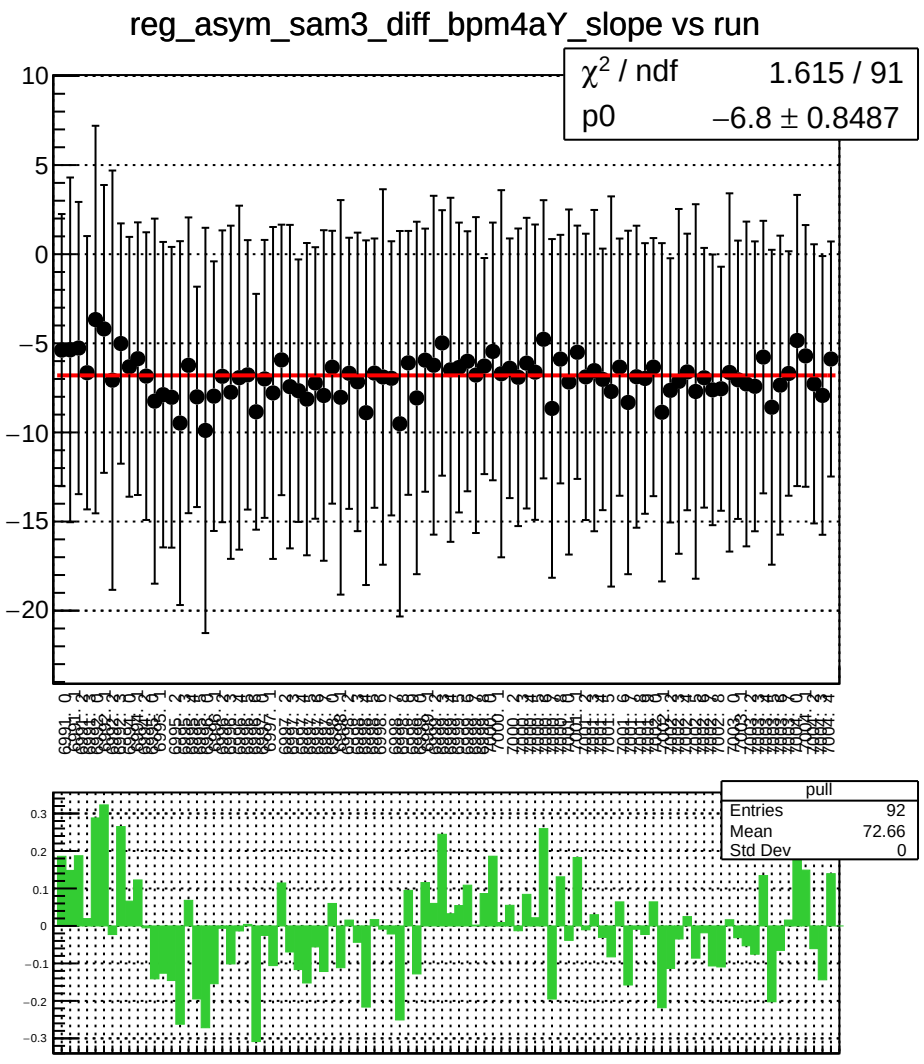

pull1D
Entries 92
Mean −0.0005228
Std Dev 0.2922

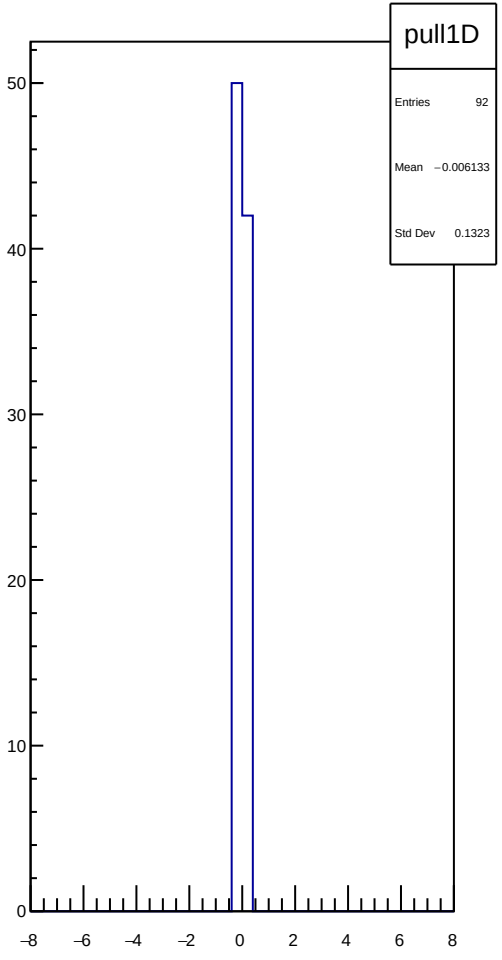

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 12.26 / 91
p0 −169 ± 1.607
−130
−140
−150
−160
−170
−180
−190
−200
pull
Entries 92
Mean −342.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

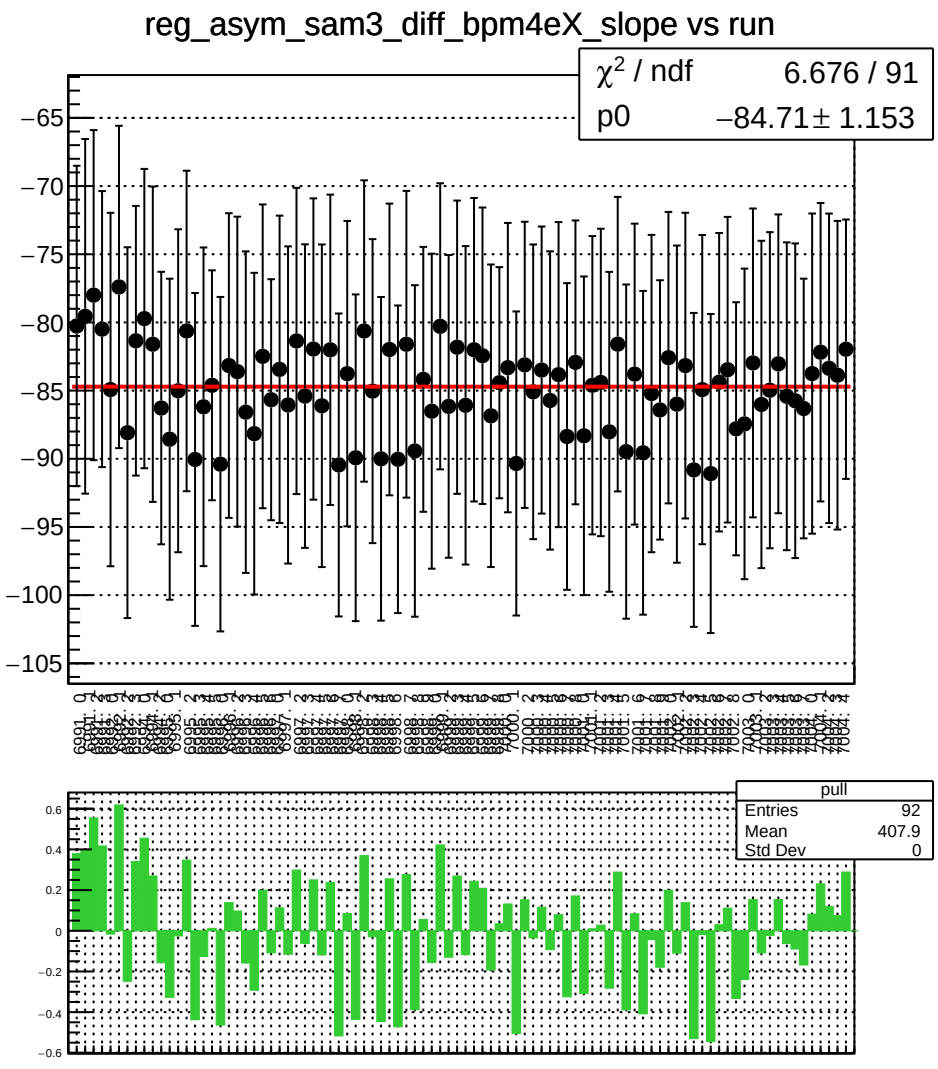

pull1D
Entries 92
Mean 0.00545
Std Dev 0.3651
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

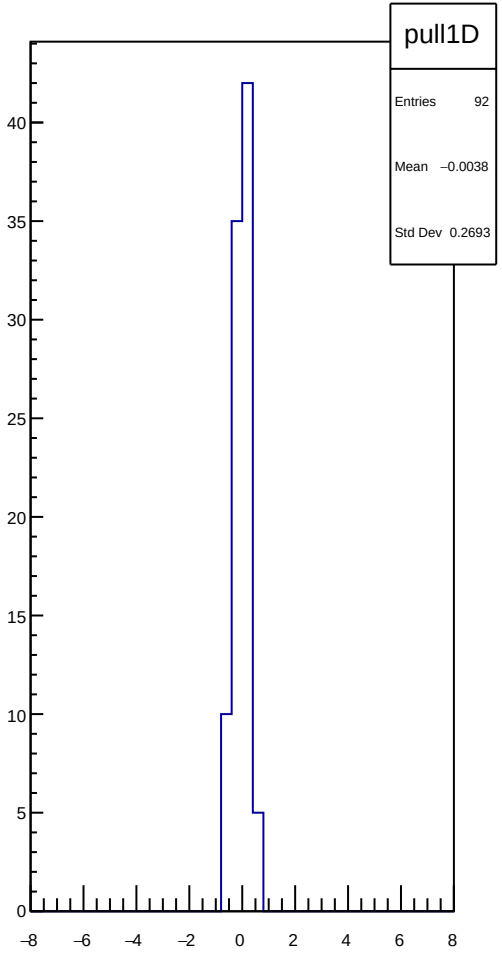

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 13.17 / 91
p0 1.248 ± 0.07207
pull
Entries 92
Mean −67.49
Std Dev 126.2
pull1D
Entries 92
Mean 0.005578
Std Dev 0.3783

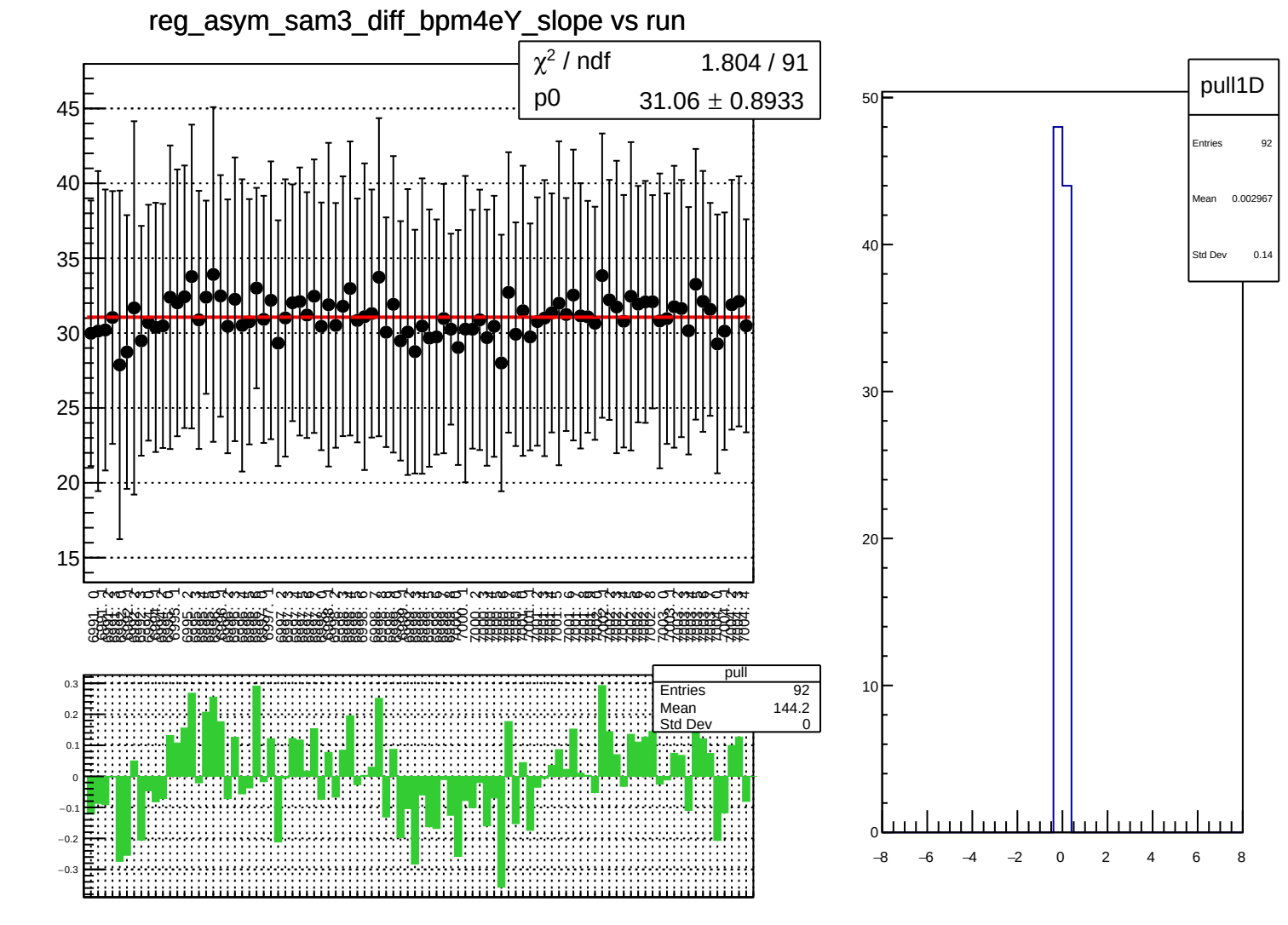

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 4.52 / 91
p0 −38.38 ± 1.251
pull
Entries 92
Mean −949.1
Std Dev 0
pull1D
Entries 92
Mean −0.003108
Std Dev 0.2216

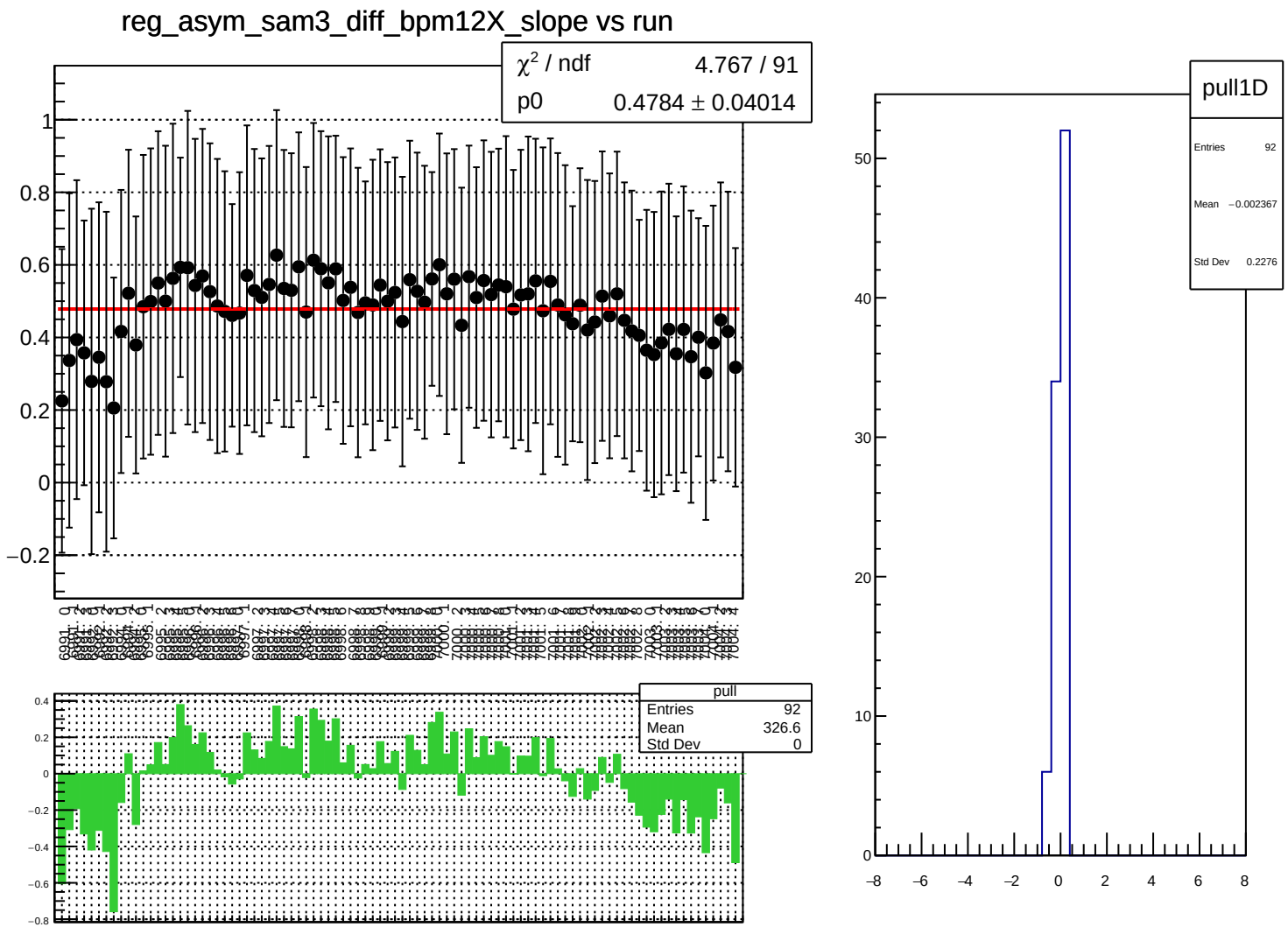

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.615 / 91
p0 −6.8 ± 0.8487
pull
Entries 92
Mean 72.66
Std Dev 0

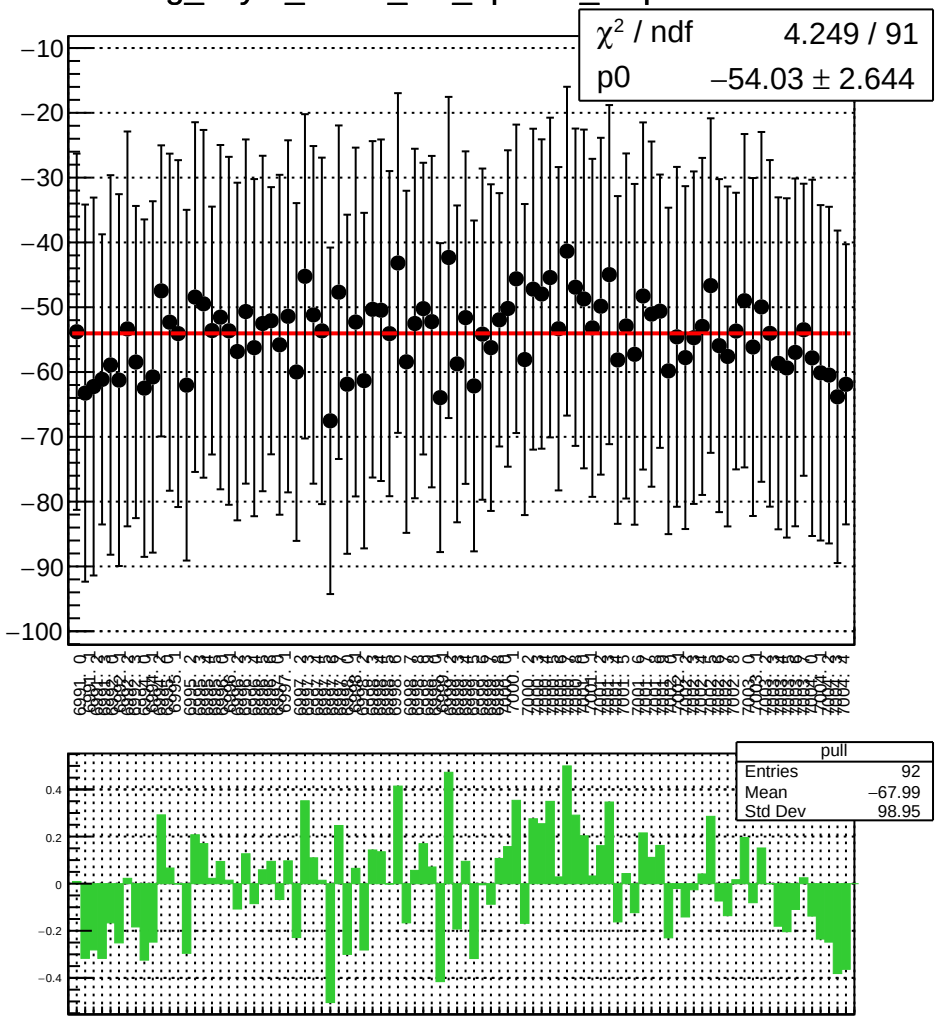

pull1D
Entries 92
Mean −0.006133
Std Dev 0.1323

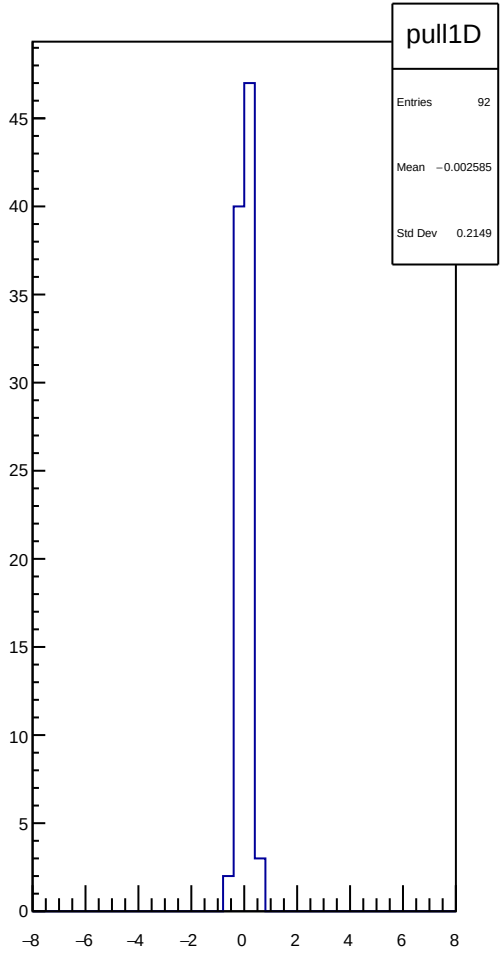

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 6.676 / 91
p0 −84.71 ± 1.153
pull
Entries 92
Mean 407.9
Std Dev 0

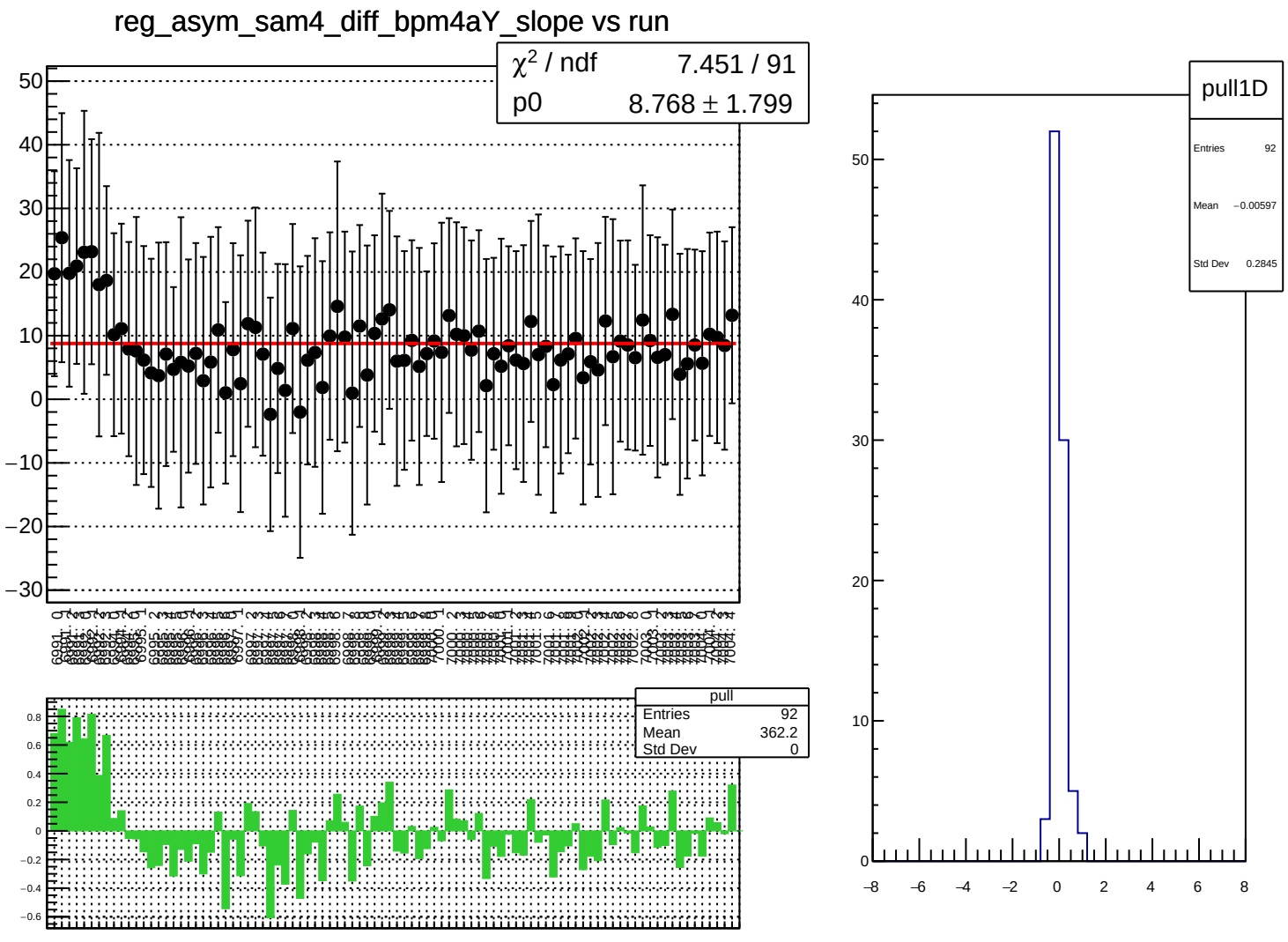

pull1D
Entries 92
Mean −0.0038
Std Dev 0.2693

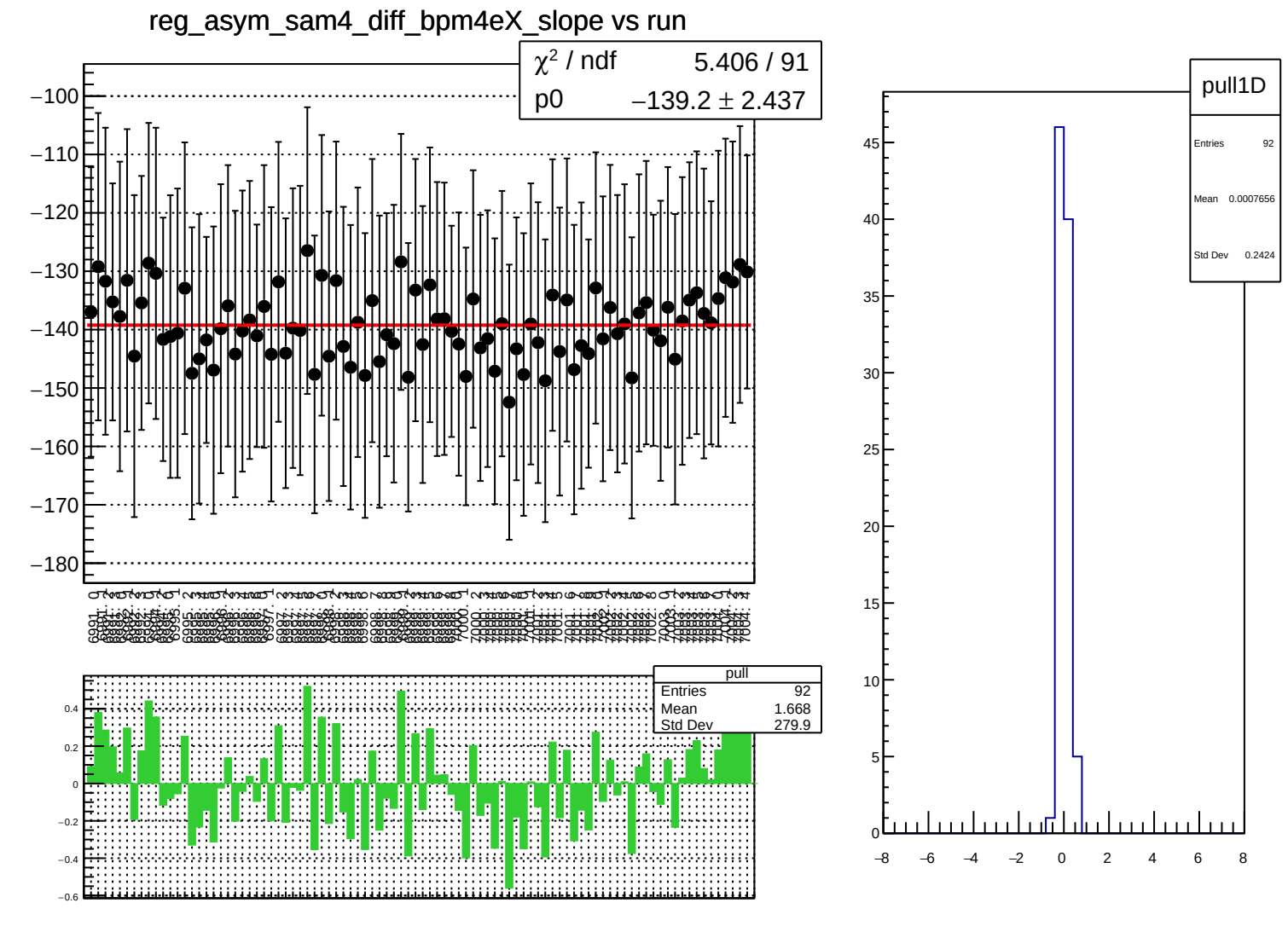

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.804 / 91
p0 31.06 ± 0.8933
pull
Entries 92
Mean 144.2
Std Dev 0
pull1D
Entries 92
Mean 0.002967
Std Dev 0.14

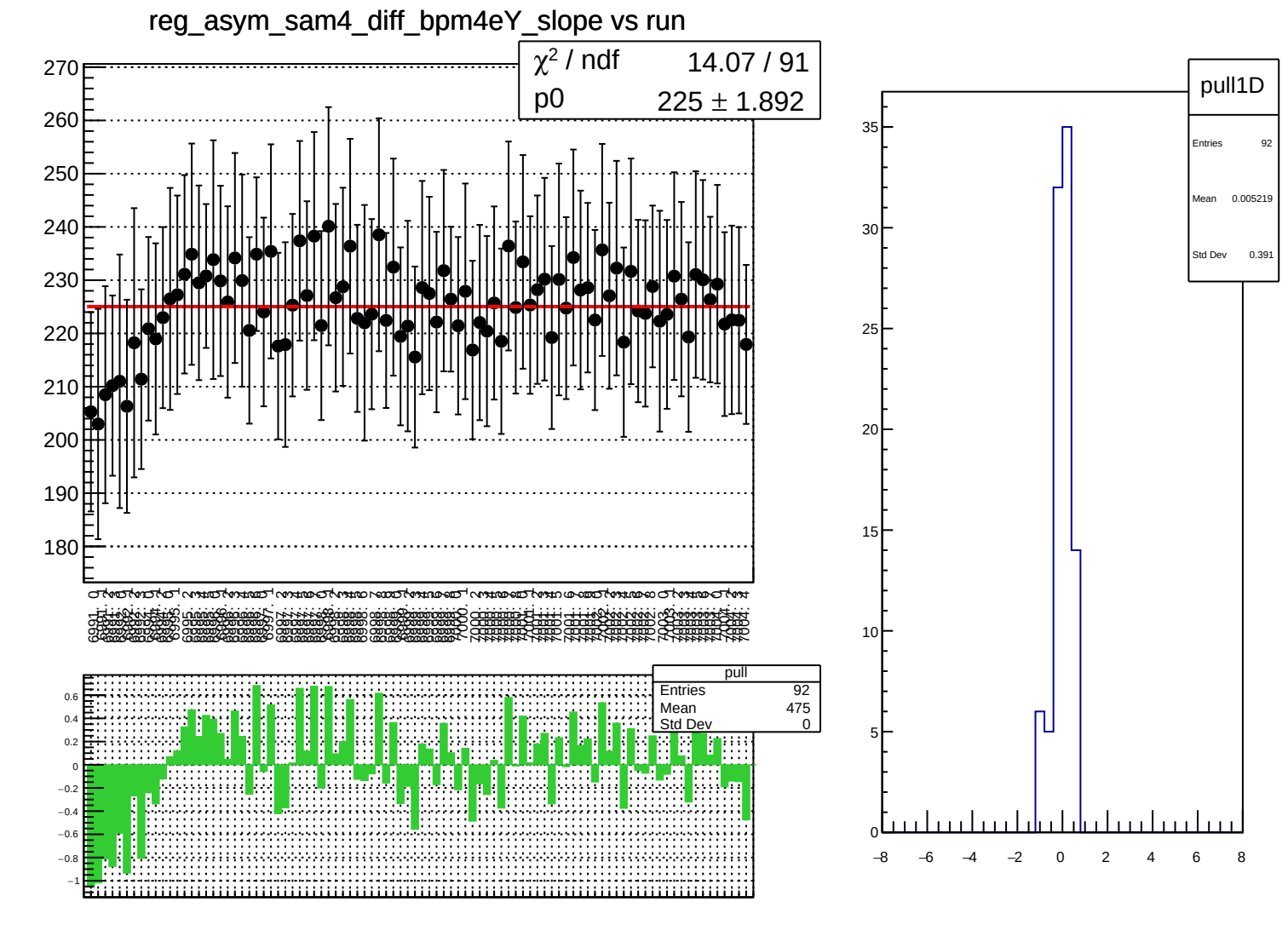

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.767 / 91
p0 0.4784 ± 0.04014
pull
Entries 92
Mean 326.6
Std Dev 0
pull1D
Entries 92
Mean −0.002367
Std Dev 0.2276

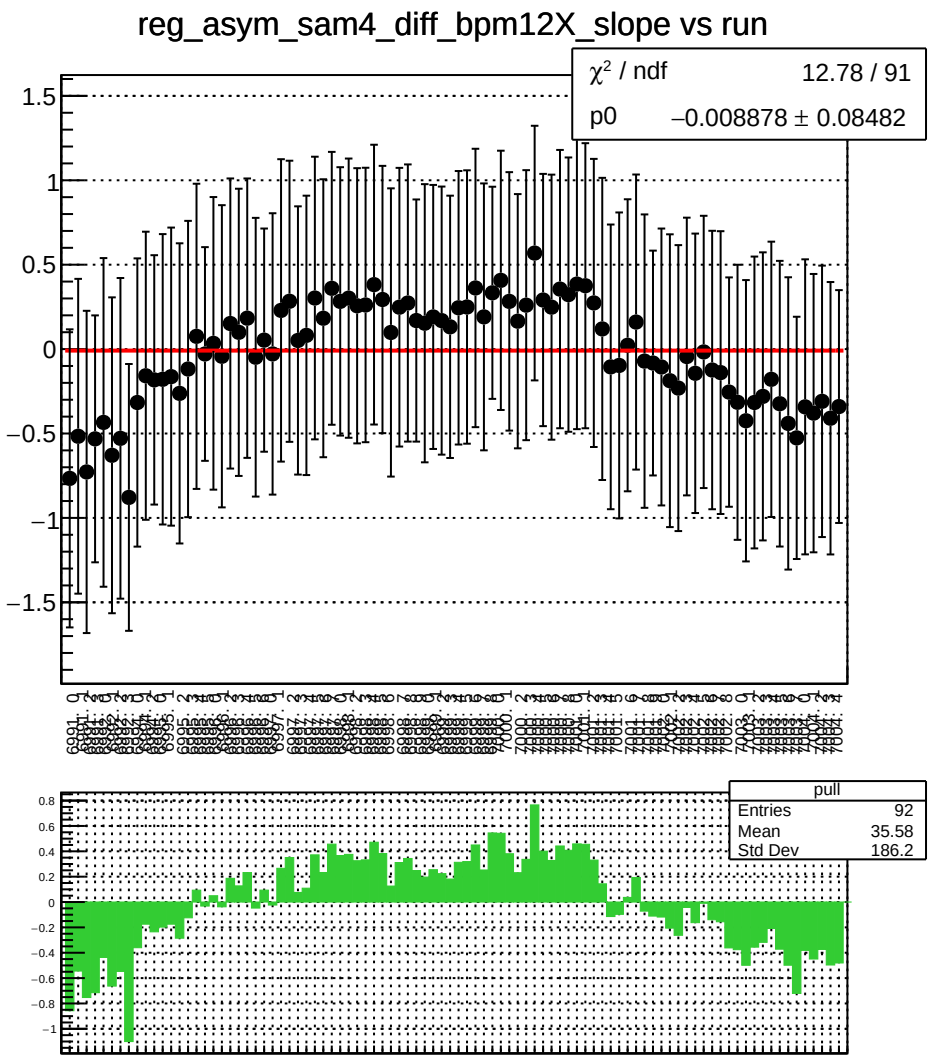

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 4.249 / 91
p0 −54.03 ± 2.644
pull
Entries 92
Mean −67.99
Std Dev 98.95

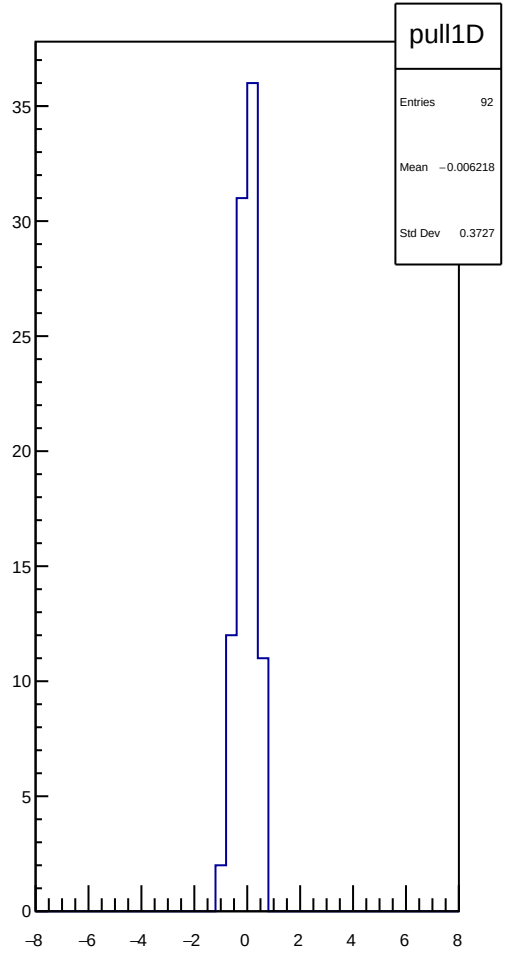

pull1D
Entries 92
Mean −0.002585
Std Dev 0.2149

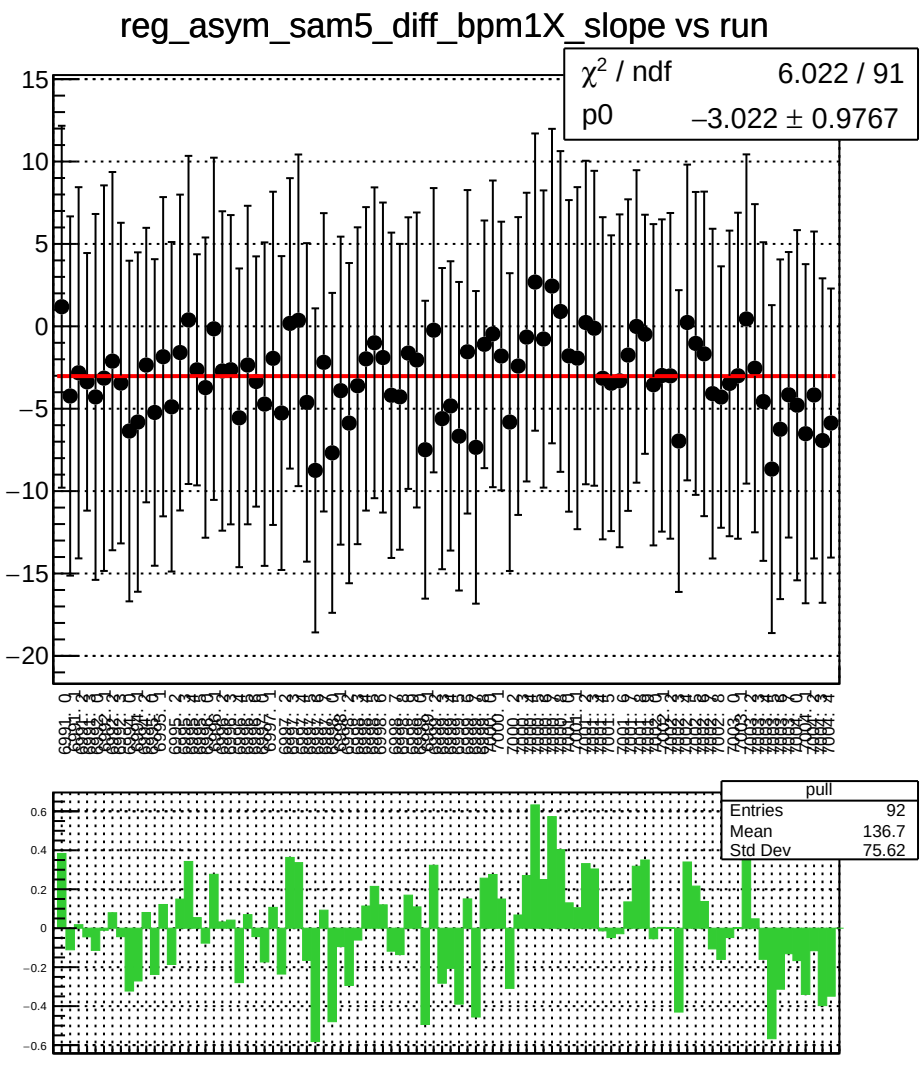

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 7.451 / 91
p0 8.768 ± 1.799
pull
Entries 92
Mean 362.2
Std Dev 0
pull1D
Entries 92
Mean −0.00597
Std Dev 0.2845

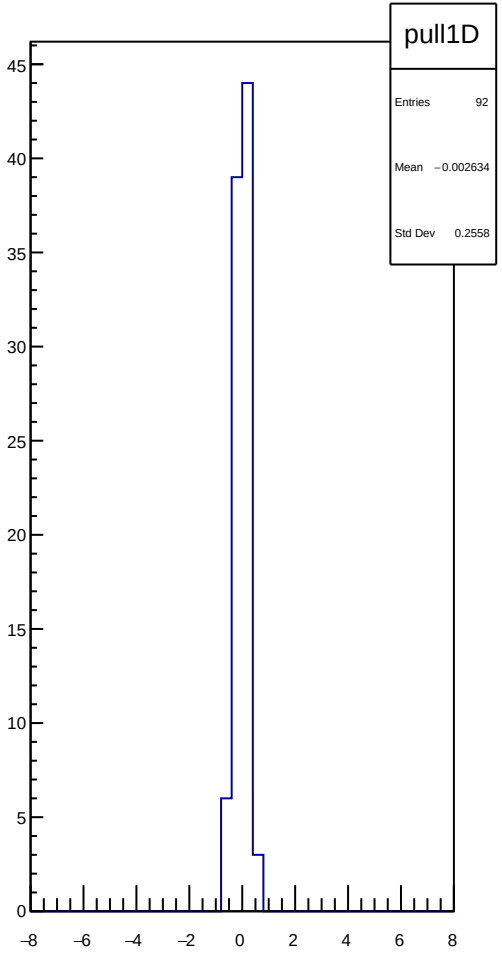

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 5.406 / 91
p0 −139.2 ± 2.437
pull
Entries 92
Mean 1.668
Std Dev 279.9
pull1D
Entries 92
Mean 0.0007656
Std Dev 0.2424

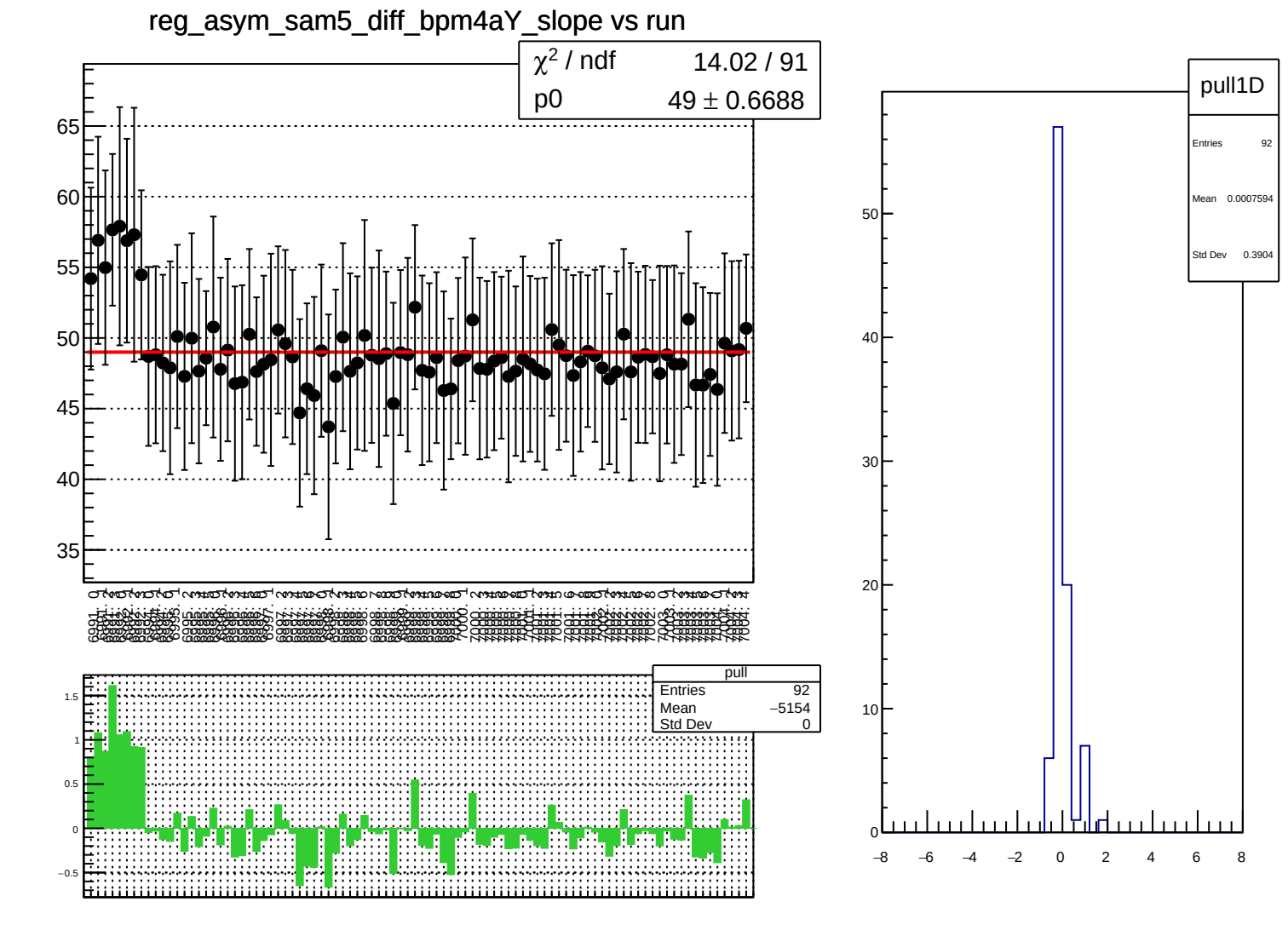

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 14.07 / 91
p0 225 ± 1.892
pull
Entries 92
Mean 475
Std Dev 0
pull1D
Entries 92
Mean 0.005219
Std Dev 0.391

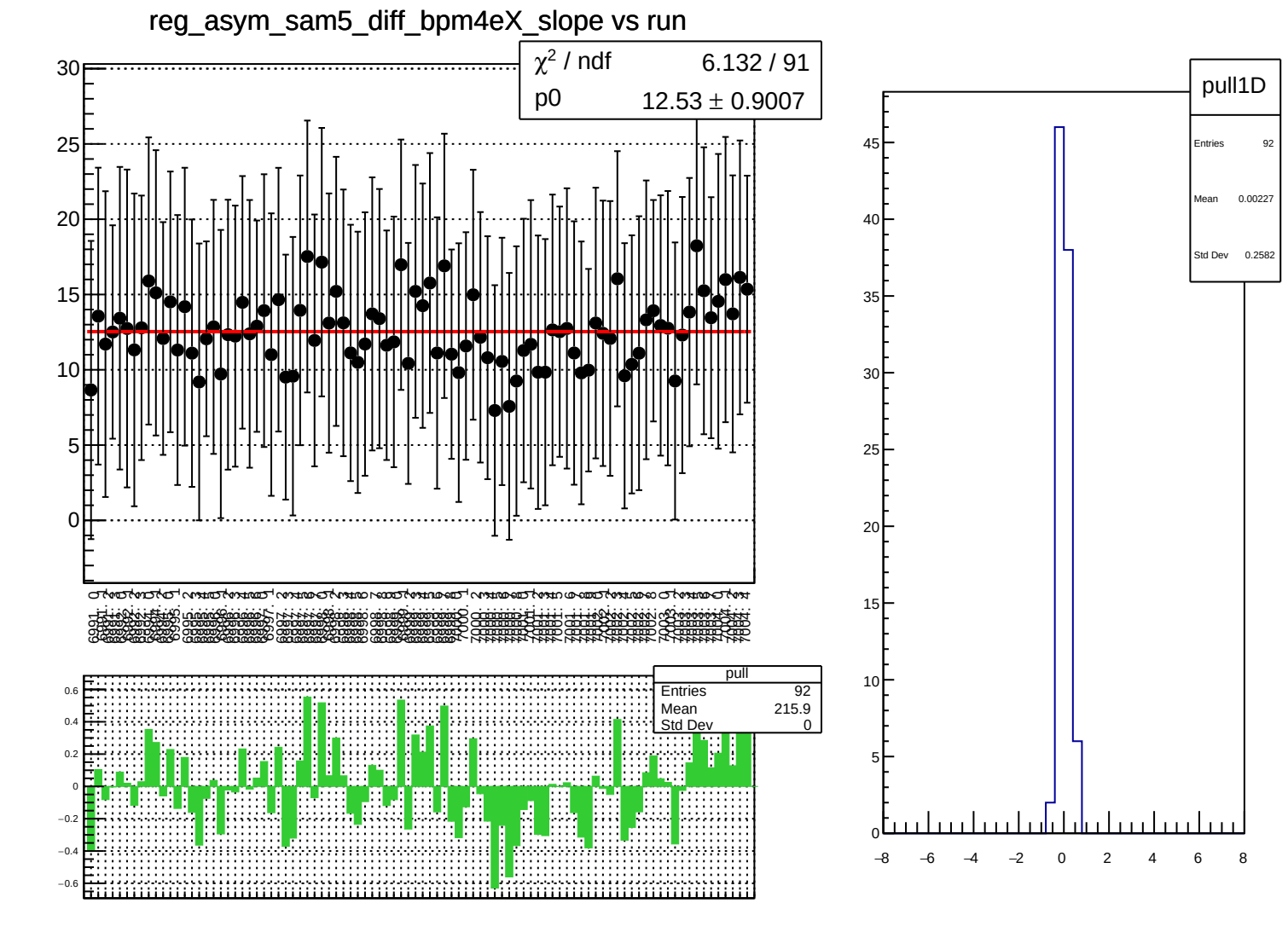

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 12.78 / 91
p0 −0.008878 ± 0.08482
pull
Entries 92
Mean 35.58
Std Dev 186.2

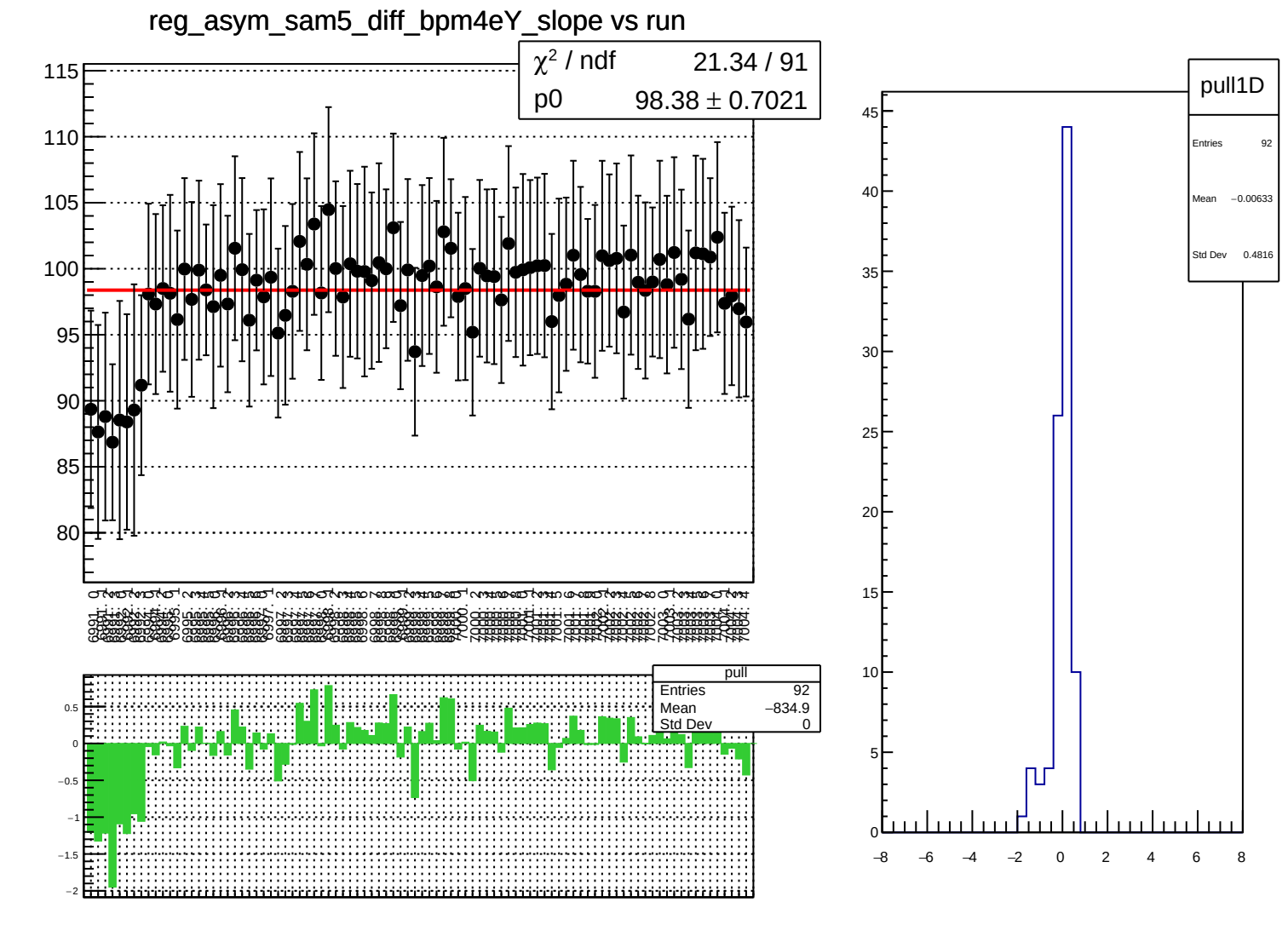

pull1D
Entries 92
Mean −0.006218
Std Dev 0.3727

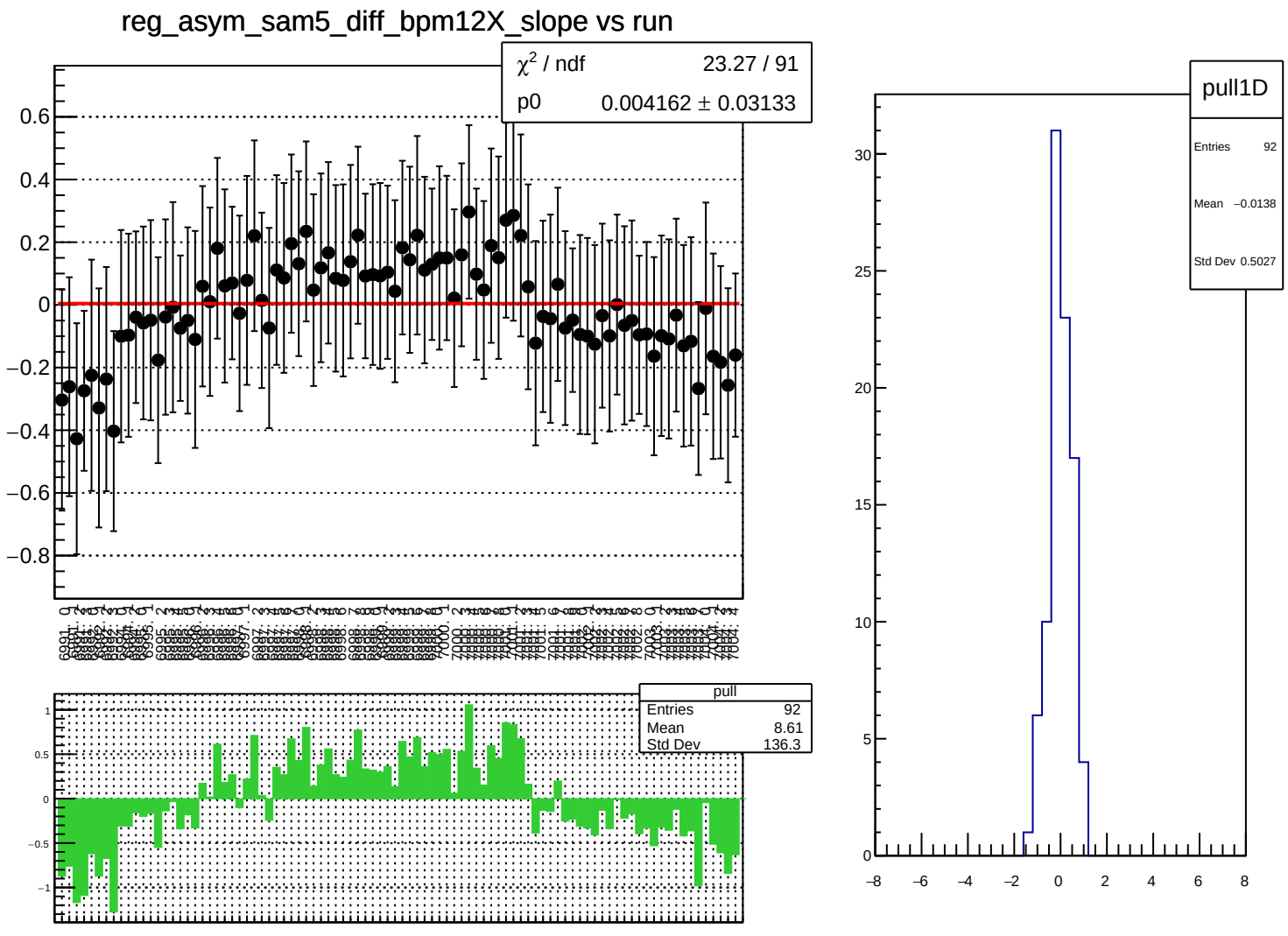

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 6.022 / 91
p0 −3.022 ± 0.9767
pull
Entries 92
Mean 136.7
Std Dev 75.62

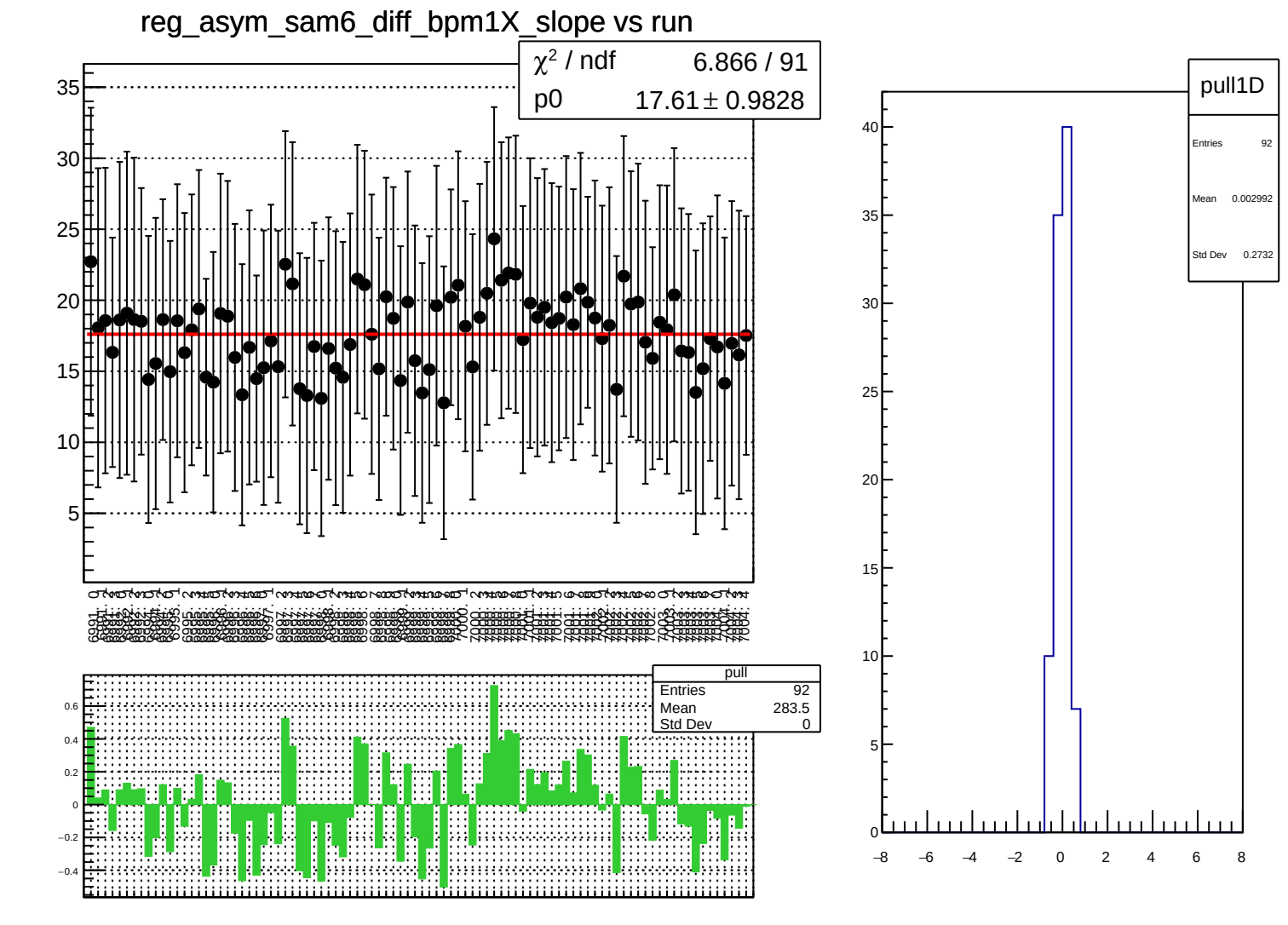

pull1D
Entries 92
Mean −0.002634
Std Dev 0.2558

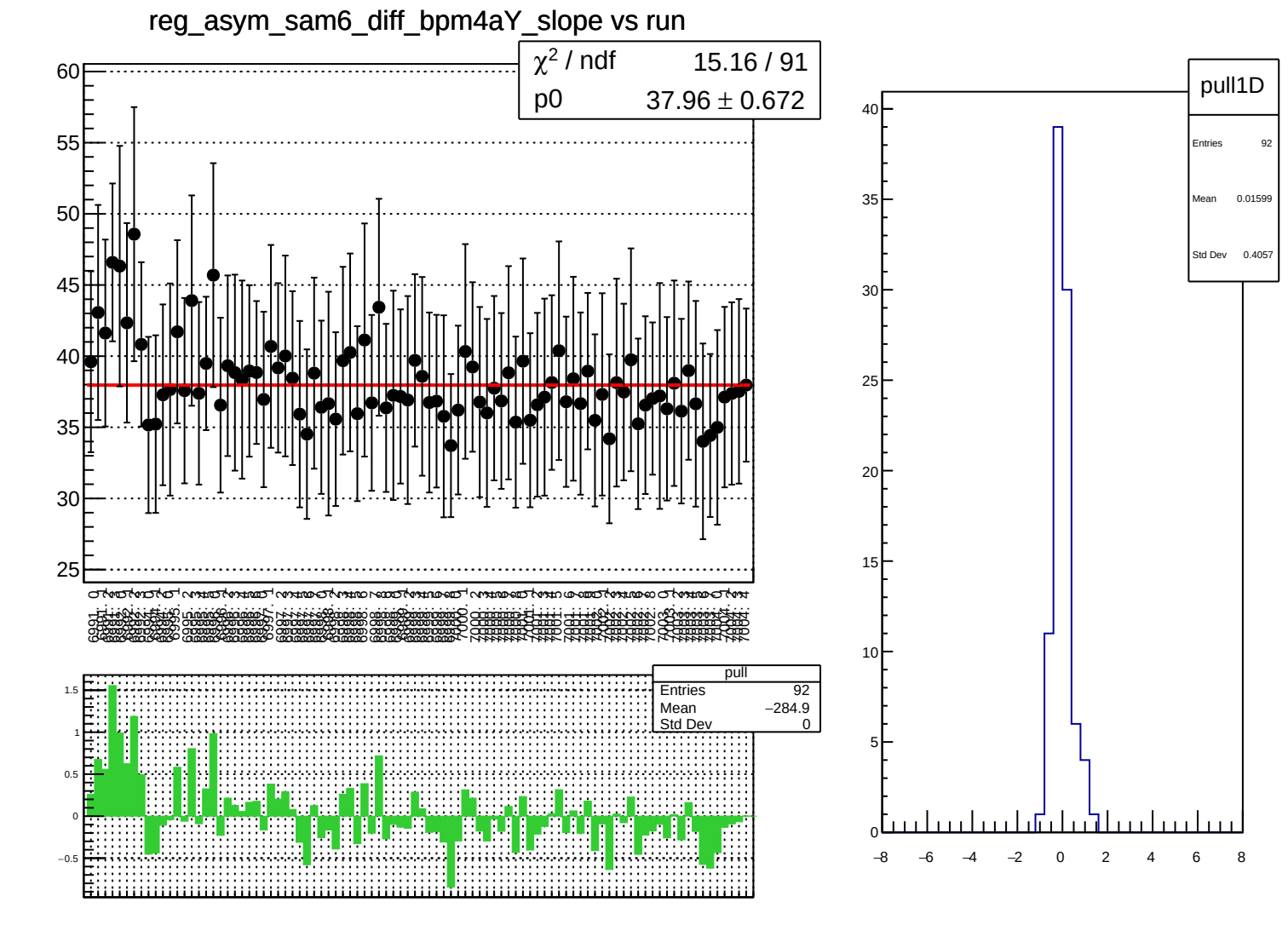

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 14.02 / 91
p0 49 ± 0.6688
pull
Entries 92
Mean −5154
Std Dev 0
pull1D
Entries 92
Mean 0.0007594
Std Dev 0.3904

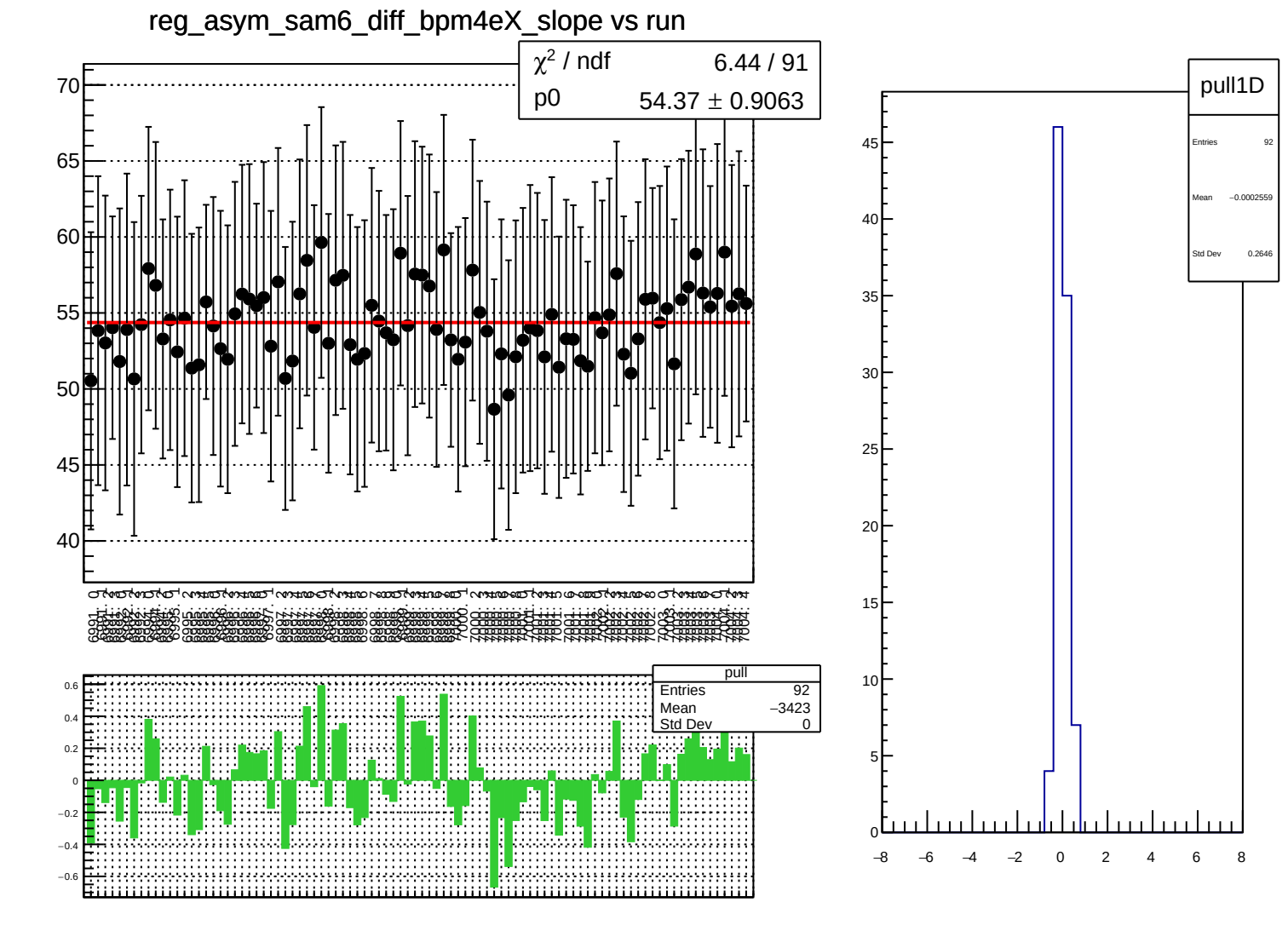

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 6.132 / 91
p0 12.53 ± 0.9007
pull
Entries 92
Mean 215.9
Std Dev 0
pull1D
Entries 92
Mean 0.00227
Std Dev 0.2582

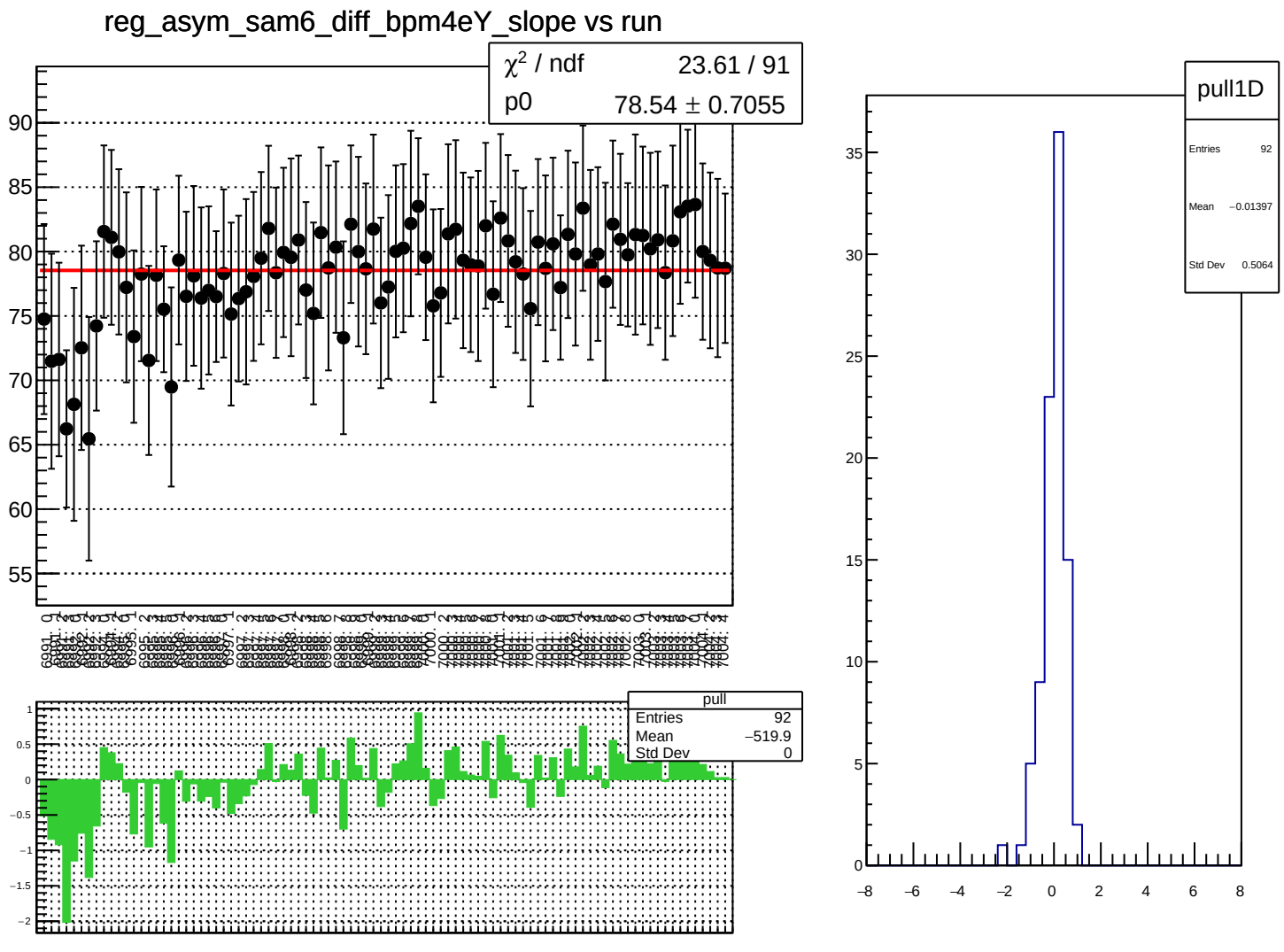

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 21.34 / 91
p0 98.38 ± 0.7021
pull
Entries 92
Mean −834.9
Std Dev 0
pull1D
Entries 92
Mean −0.00633
Std Dev 0.4816

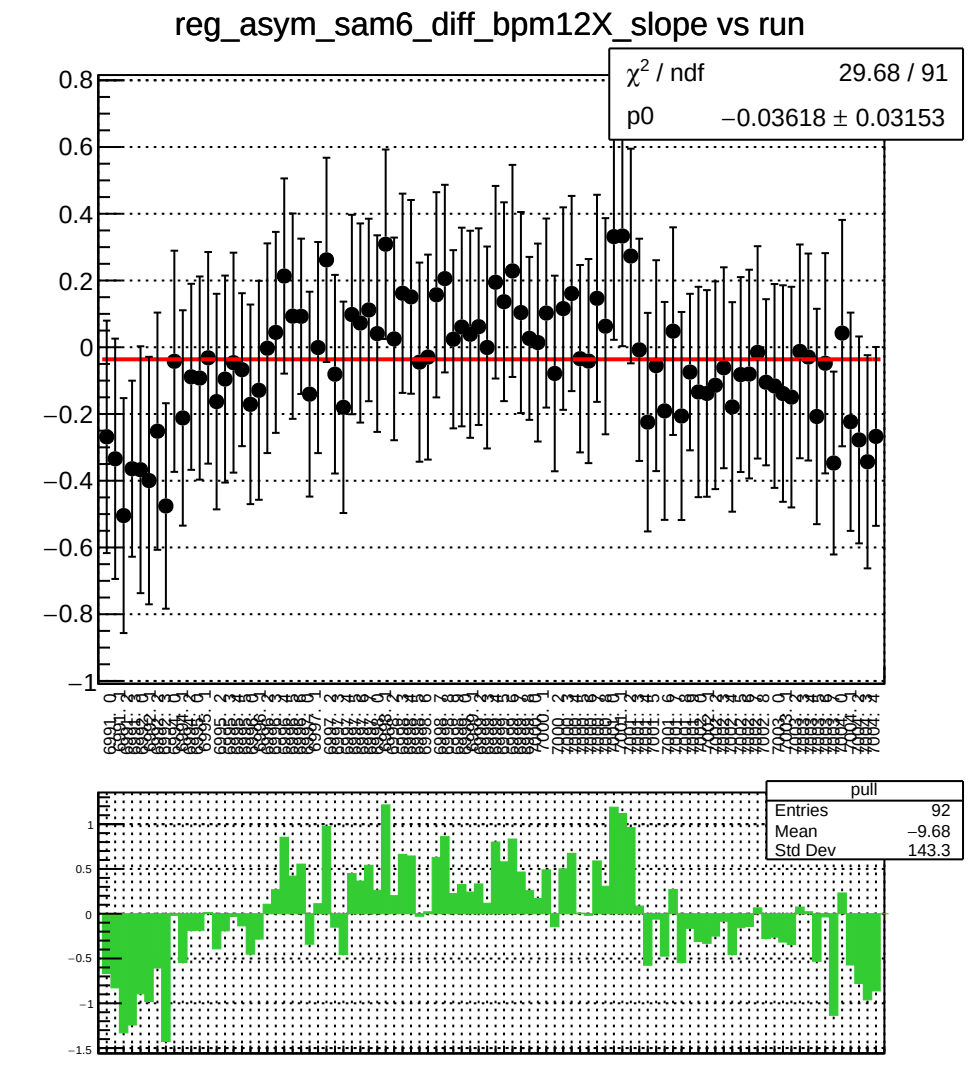

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 23.27 / 91
p0 0.004162 ± 0.03133
pull
Entries 92
Mean 8.61
Std Dev 136.3
pull1D
Entries 92
Mean −0.0138
Std Dev 0.5027

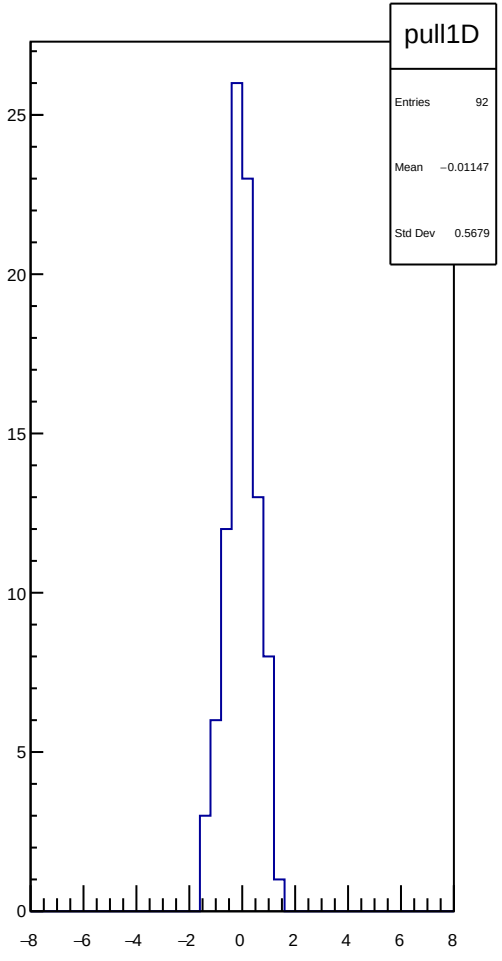

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 6.866 / 91
p0 17.61 ± 0.9828
pull
Entries 92
Mean 283.5
Std Dev 0
pull1D
Entries 92
Mean 0.002992
Std Dev 0.2732

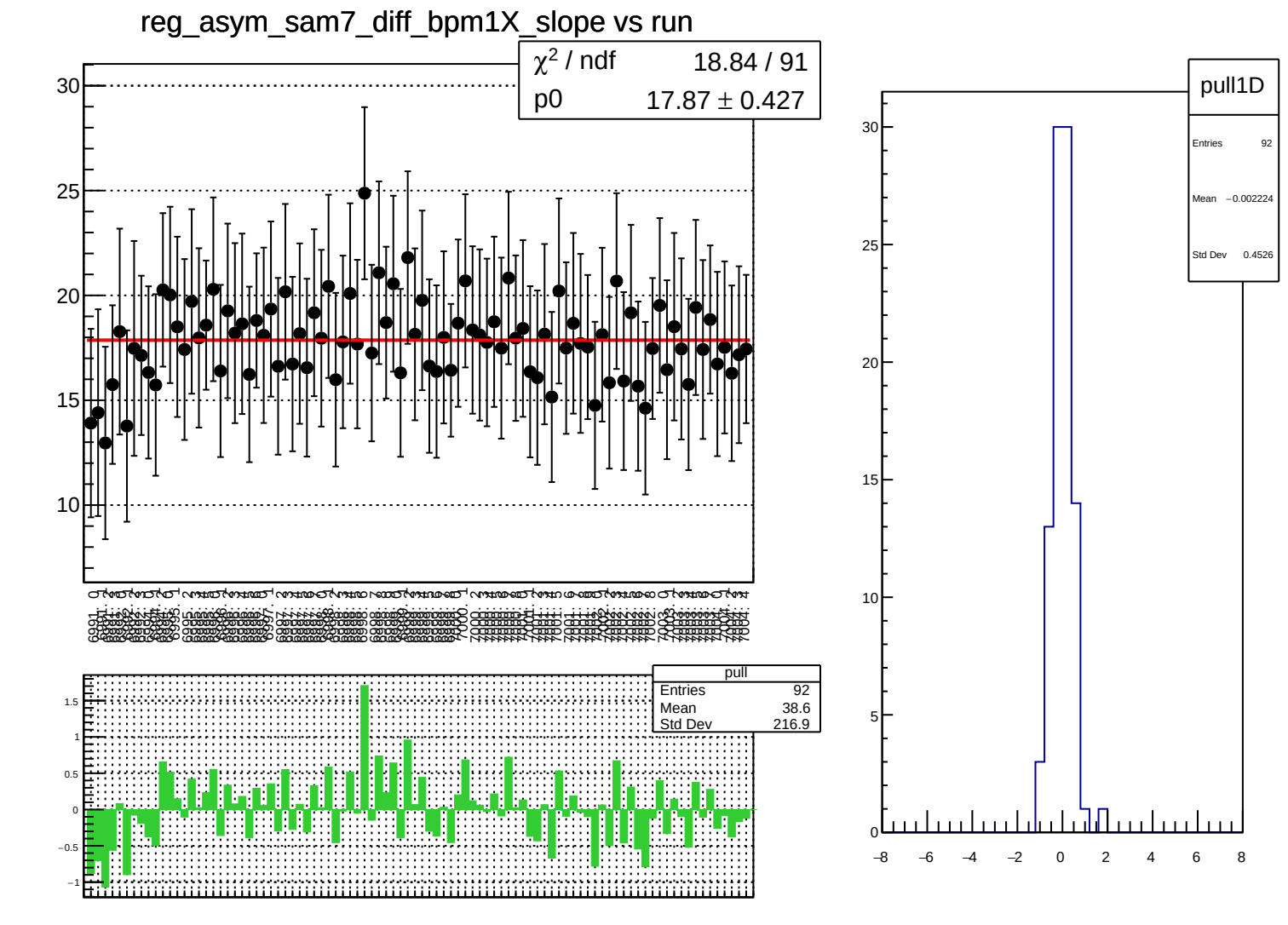

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 15.16 / 91
p0 37.96 ± 0.672
pull
Entries 92
Mean −284.9
Std Dev 0
pull1D
Entries 92
Mean 0.01599
Std Dev 0.4057

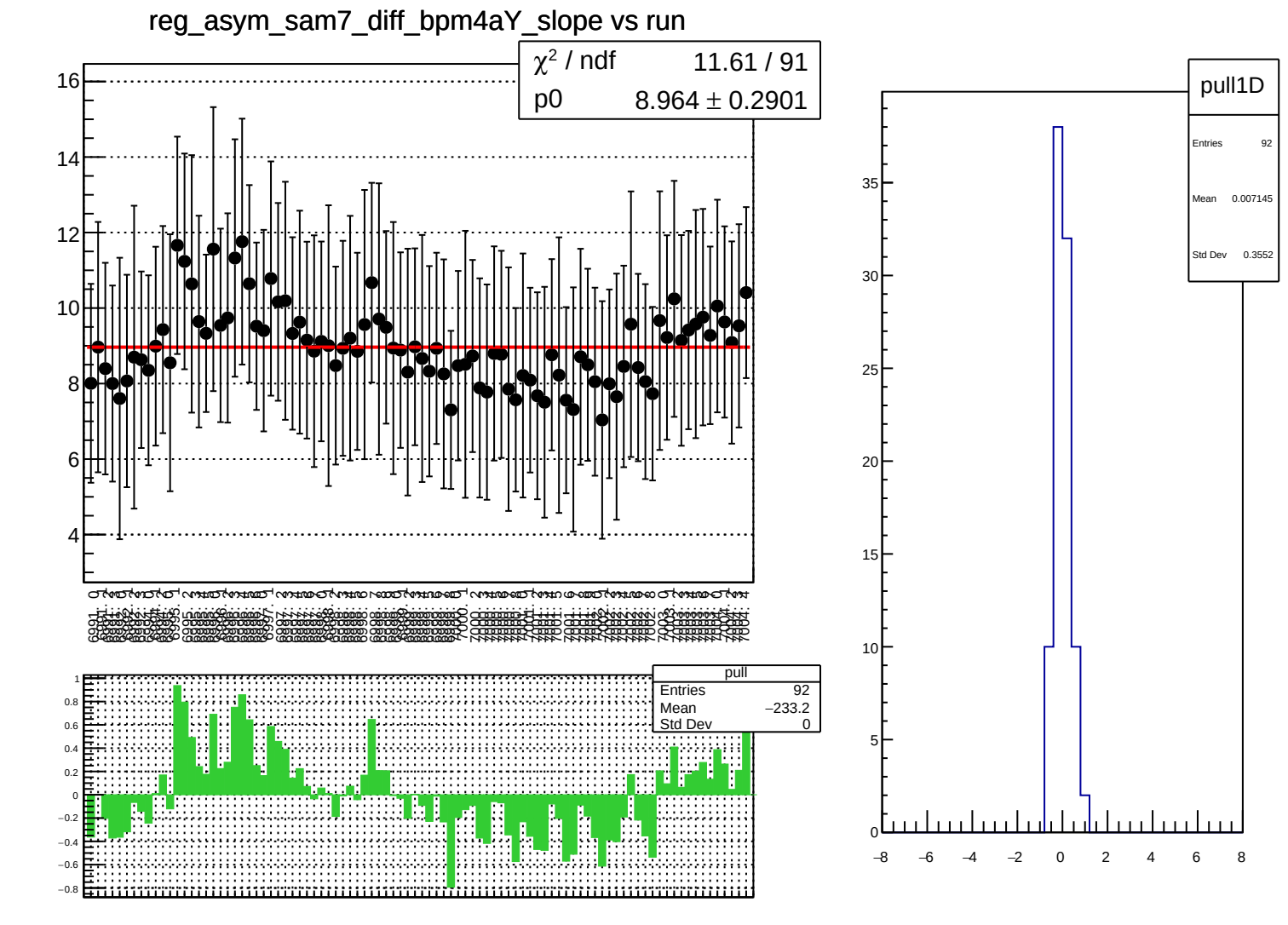

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 6.44 / 91
p0 54.37 ± 0.9063
pull
Entries 92
Mean −3423
Std Dev 0
pull1D
Entries 92
Mean −0.0002559
Std Dev 0.2646

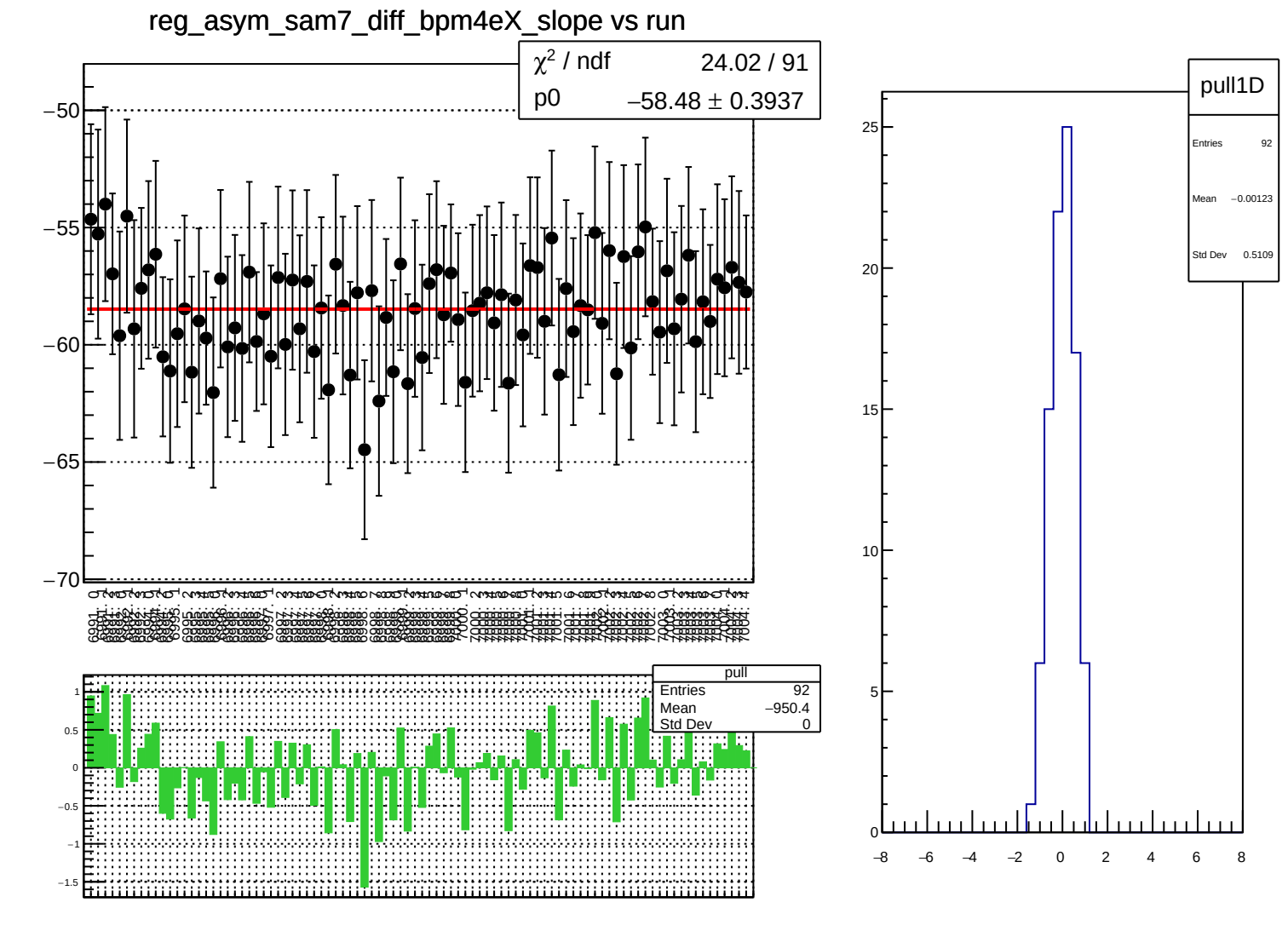

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 23.61 / 91
p0 78.54 ± 0.7055
pull
Entries 92
Mean −519.9
Std Dev 0
pull1D
Entries 92
Mean −0.01397
Std Dev 0.5064

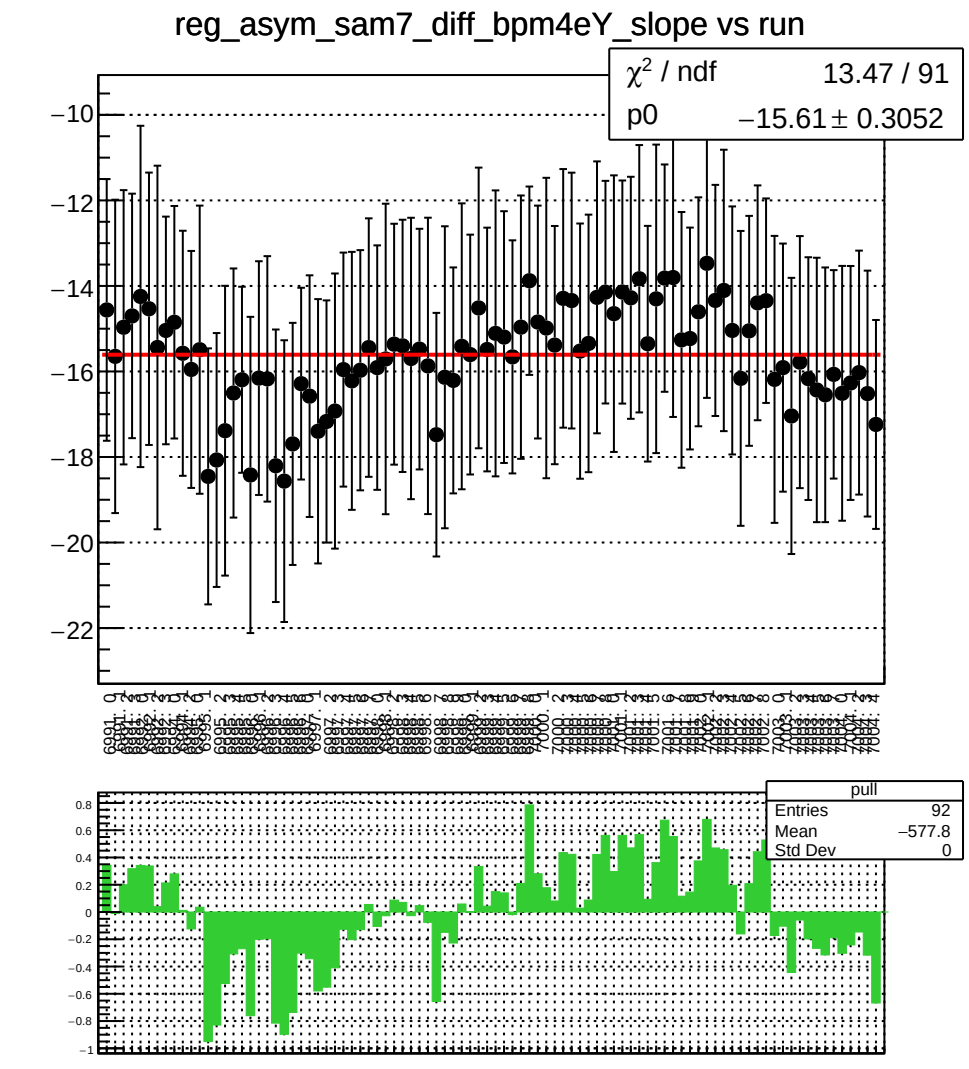

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 29.68 / 91
p0 −0.03618 ± 0.03153
pull
Entries 92
Mean −9.68
Std Dev 143.3

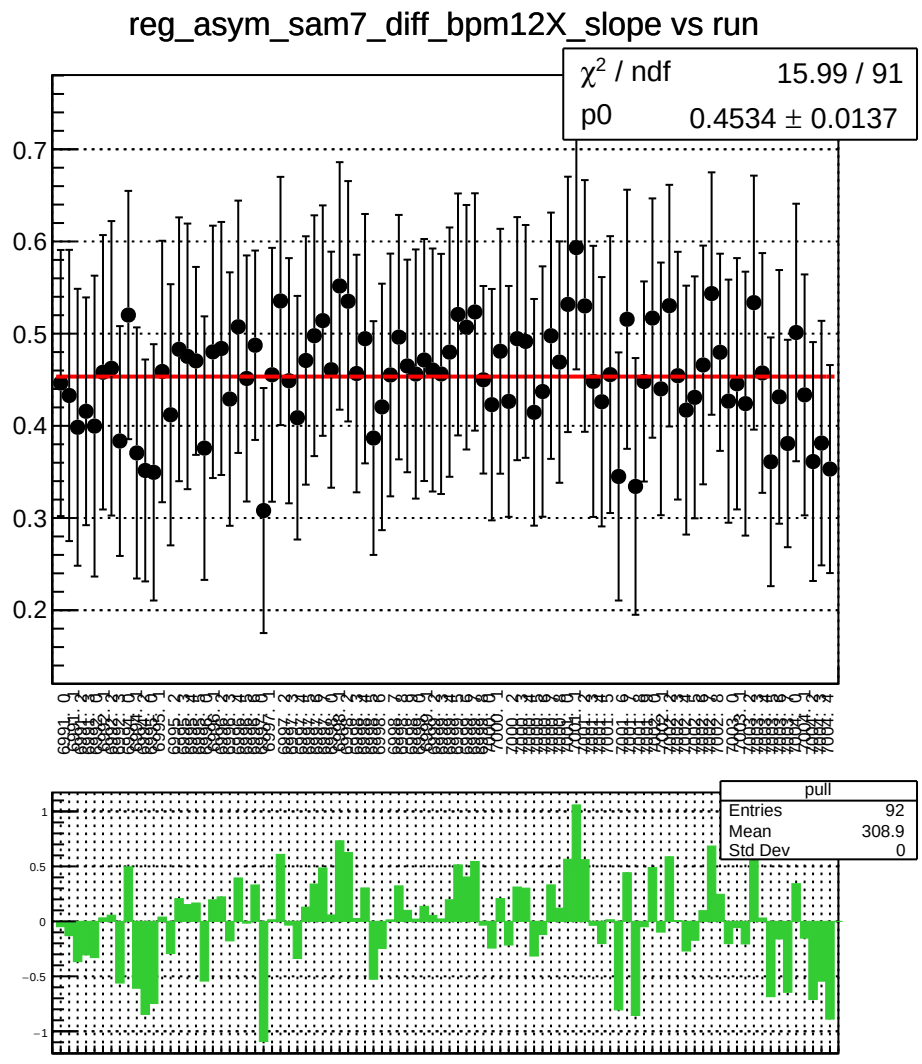

pull1D
Entries 92
Mean −0.01147
Std Dev 0.5679

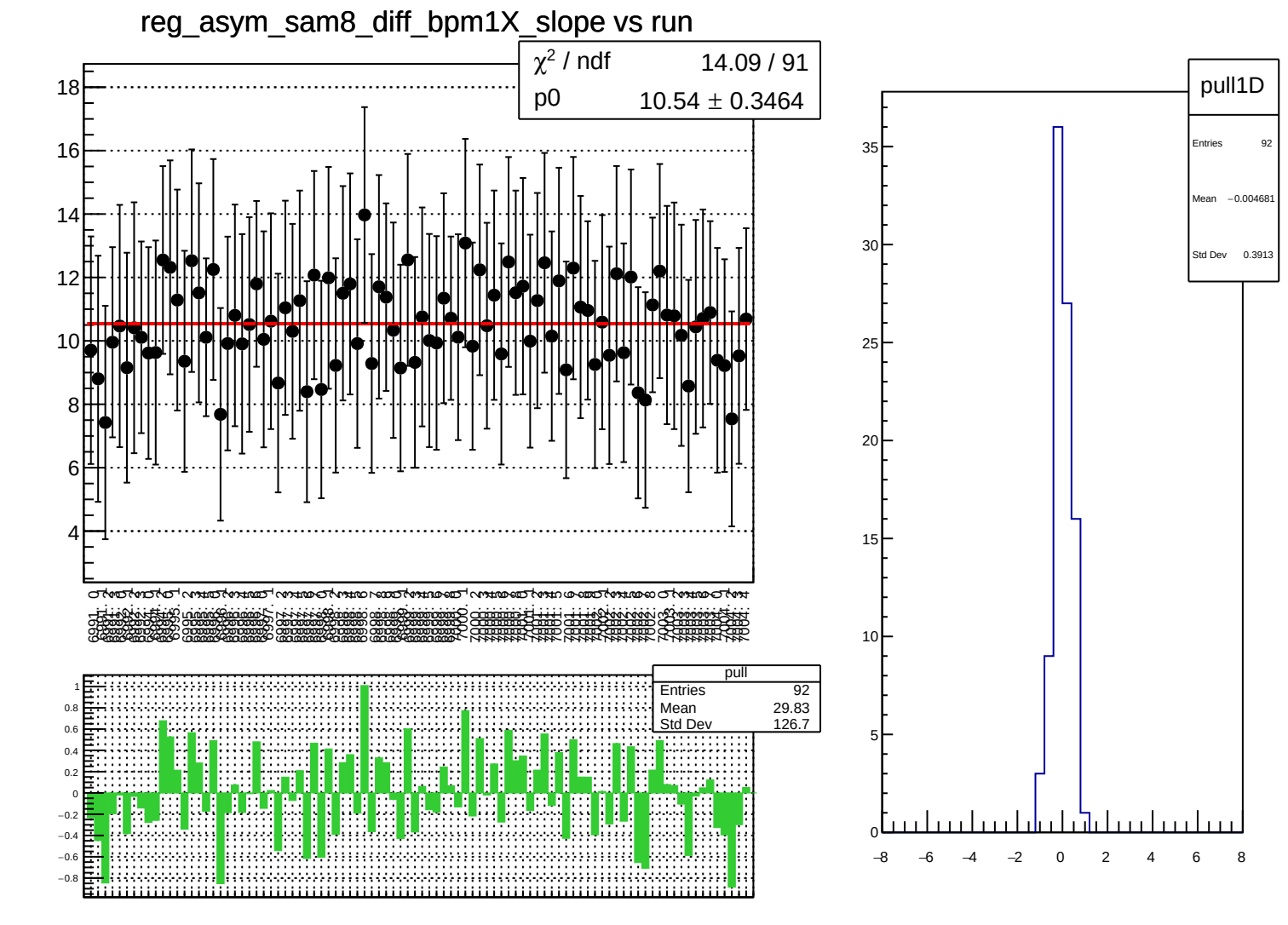

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 18.84 / 91
p0 17.87 ± 0.427
pull
Entries 92
Mean 38.6
Std Dev 216.9
pull1D
Entries 92
Mean −0.002224
Std Dev 0.4526

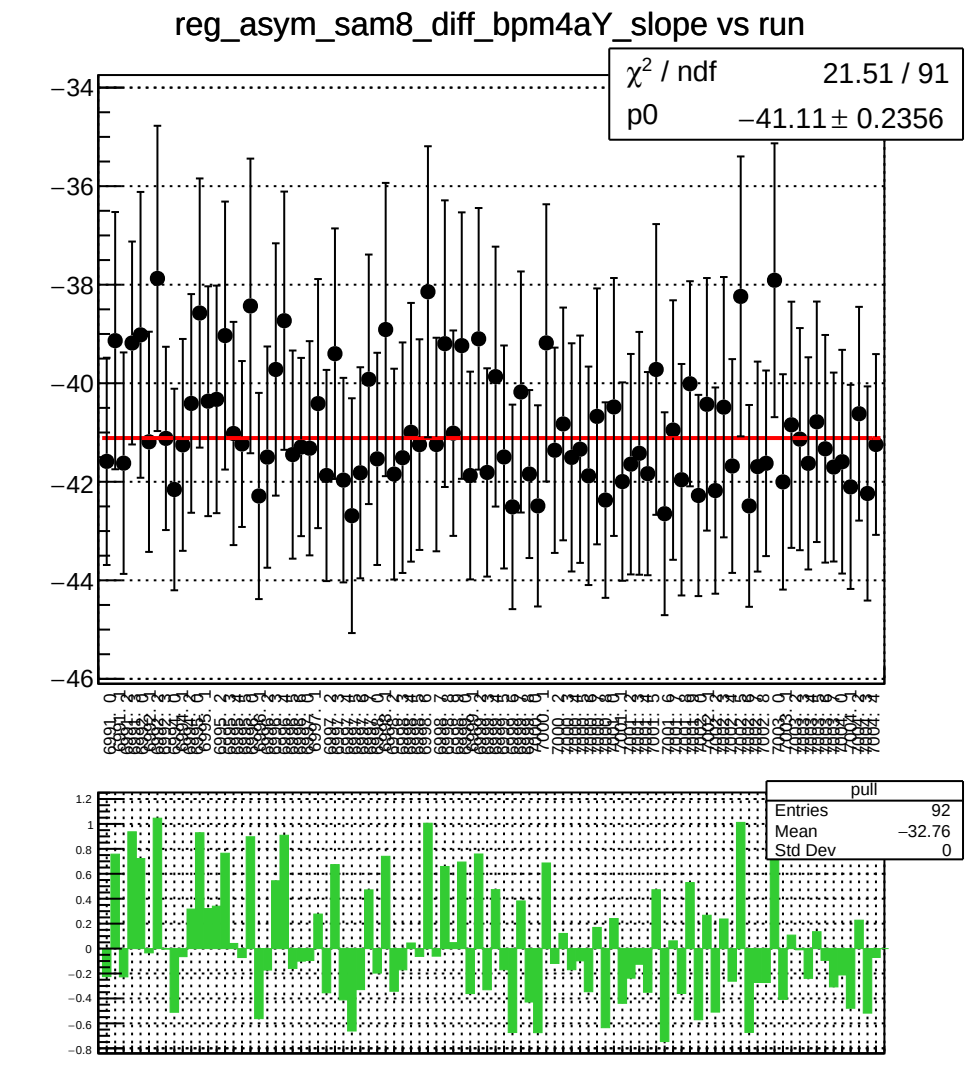

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 11.61 / 91
p0 8.964 ± 0.2901
pull
Entries 92
Mean −233.2
Std Dev 0
pull1D
Entries 92
Mean 0.007145
Std Dev 0.3552

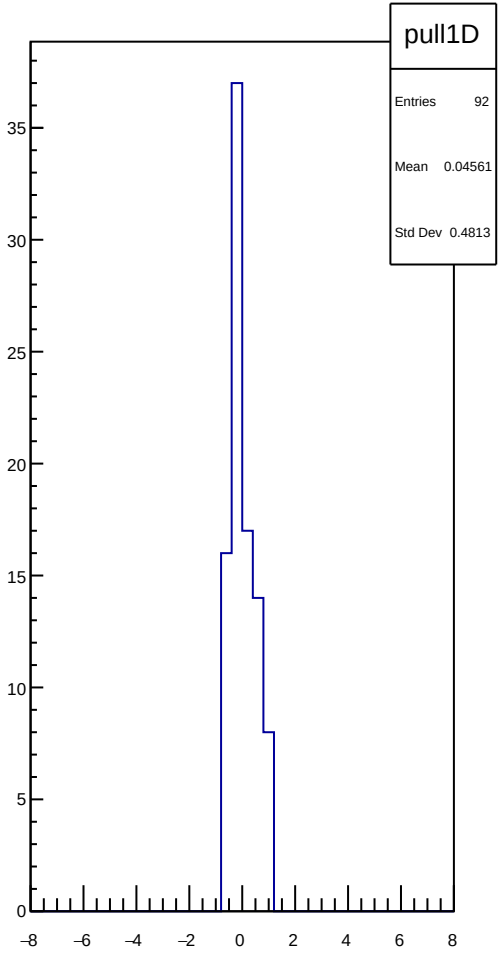

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 24.02 / 91
p0 −58.48 ± 0.3937
pull
Entries 92
Mean −950.4
Std Dev 0
pull1D
Entries 92
Mean −0.00123
Std Dev 0.5109

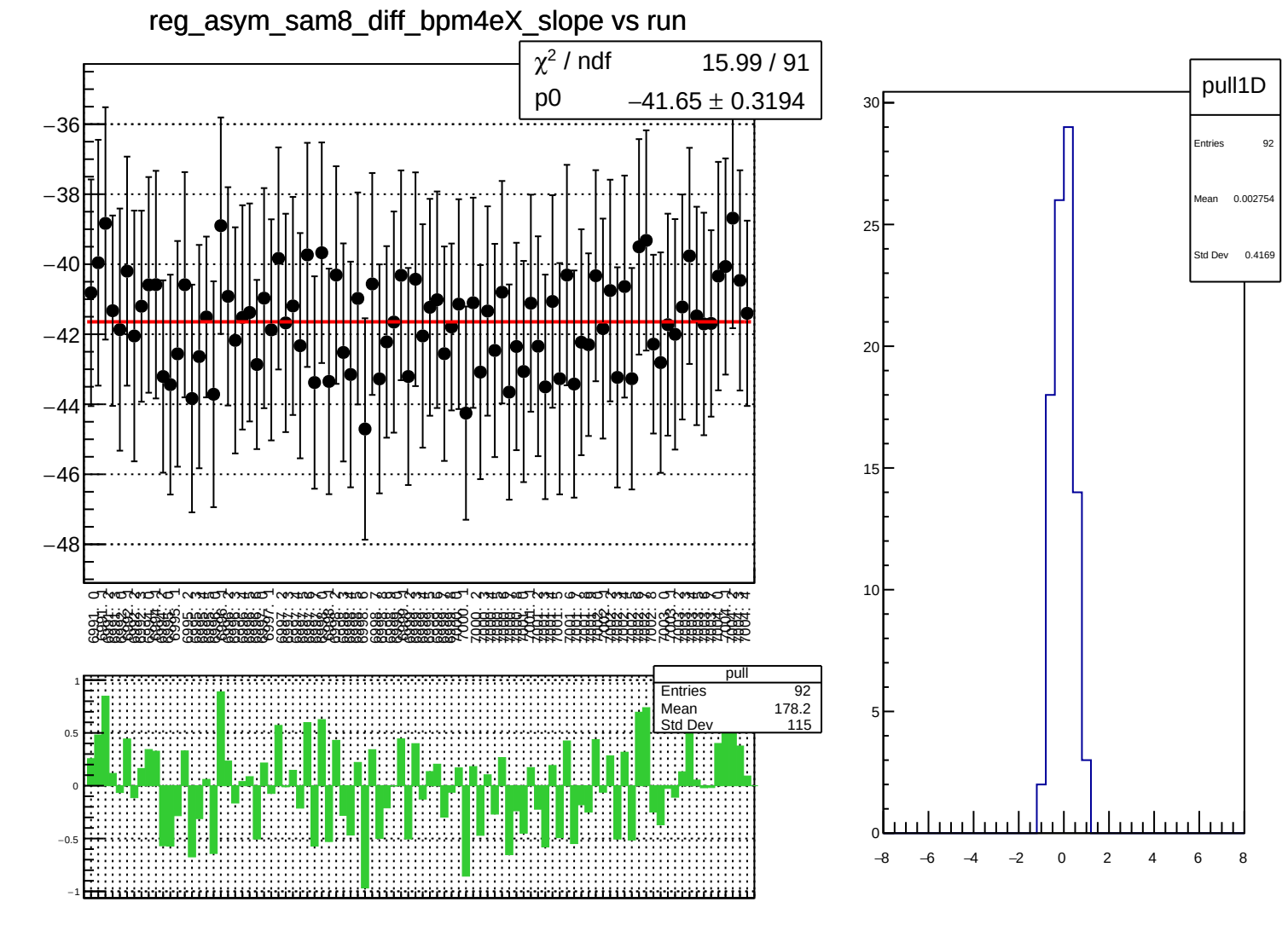

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 13.47 / 91
p0 −15.61 ± 0.3052
pull
Entries 92
Mean −577.8
Std Dev 0
pull1D
Entries 92
Mean −0.003687
Std Dev 0.3826

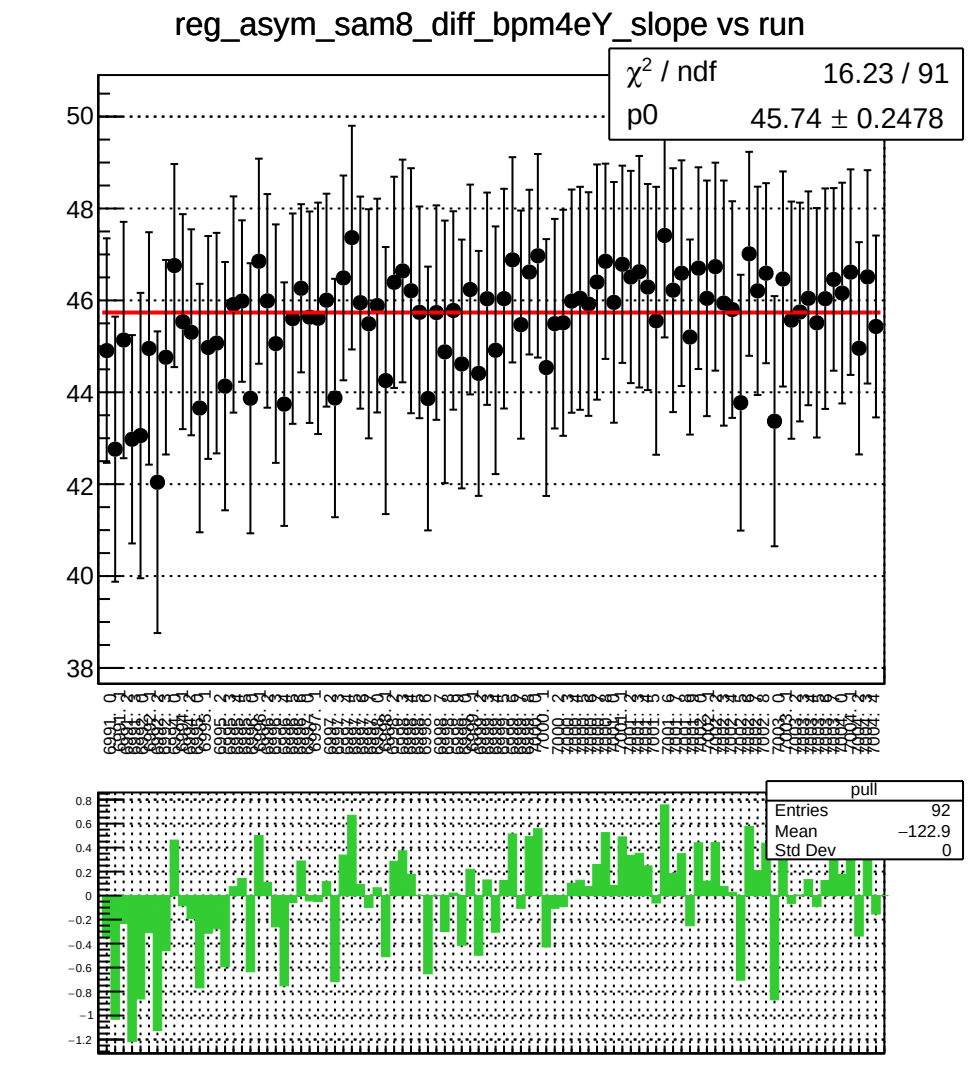

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 15.99 / 91
p0 0.4534 ± 0.0137
pull
Entries 92
Mean 308.9
Std Dev 0
pull1D
Entries 92
Mean 0.0006014
Std Dev 0.4169

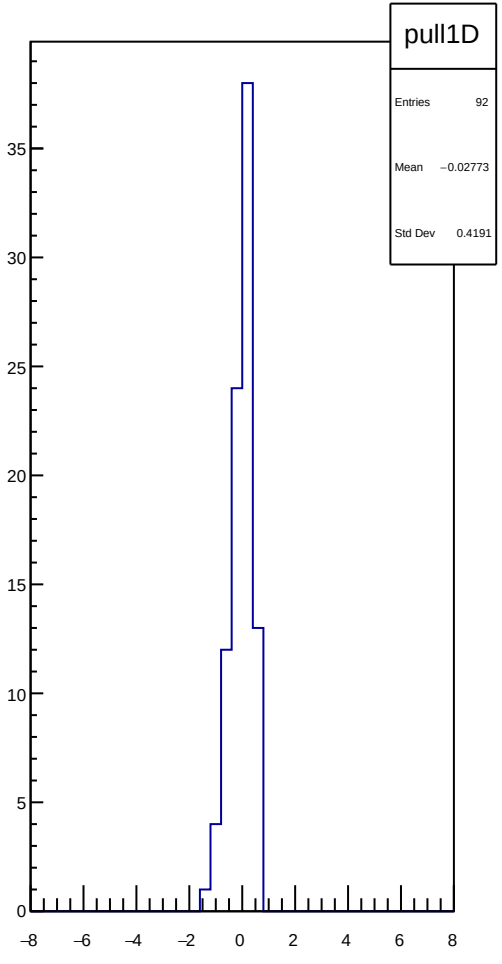

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 14.09 / 91
p0 10.54 ± 0.3464
pull
Entries 92
Mean 29.83
Std Dev 126.7
pull1D
Entries 92
Mean −0.004681
Std Dev 0.3913

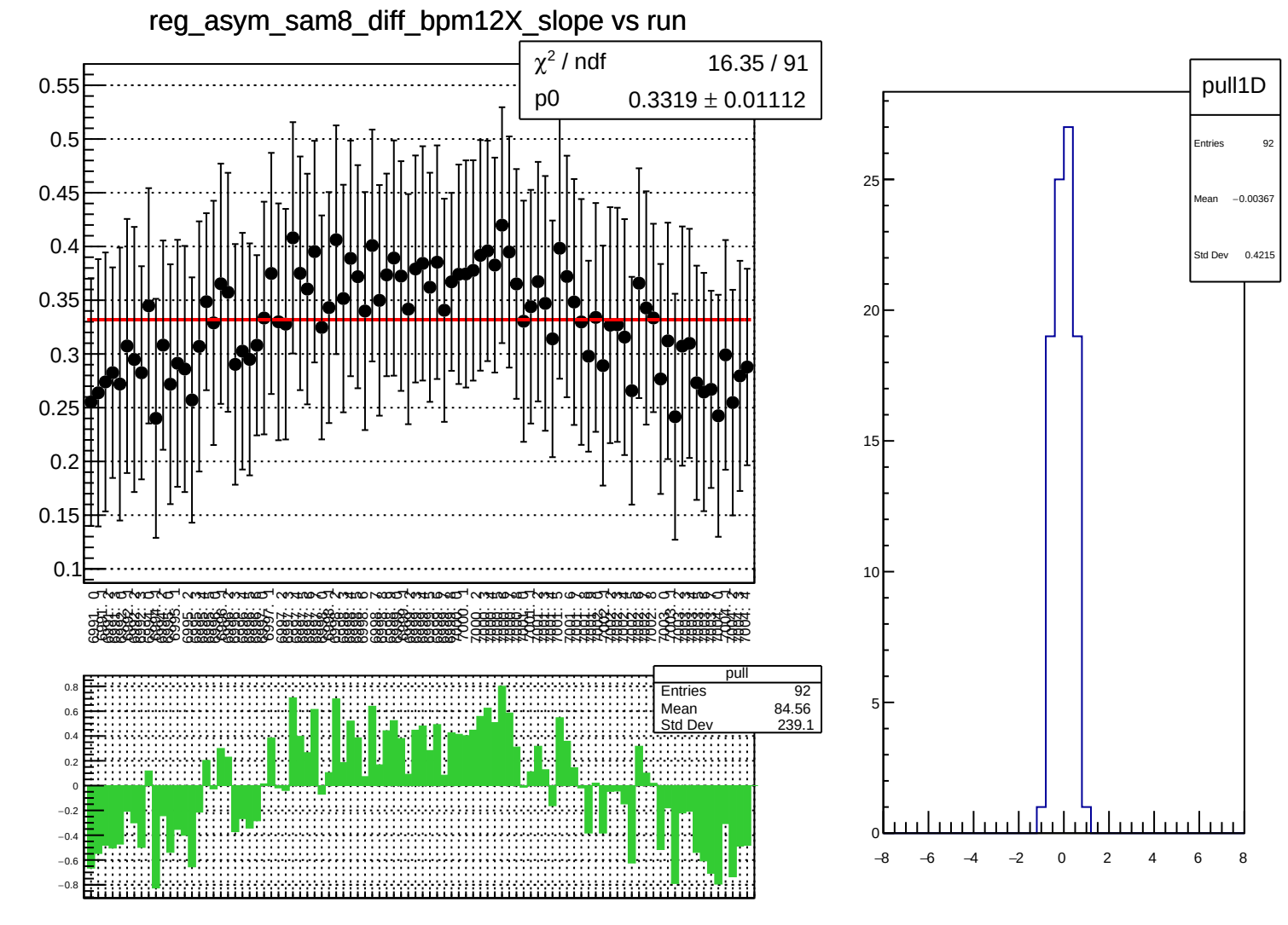

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 21.51 / 91
p0 −41.11 ± 0.2356
pull
Entries 92
Mean −32.76
Std Dev 0

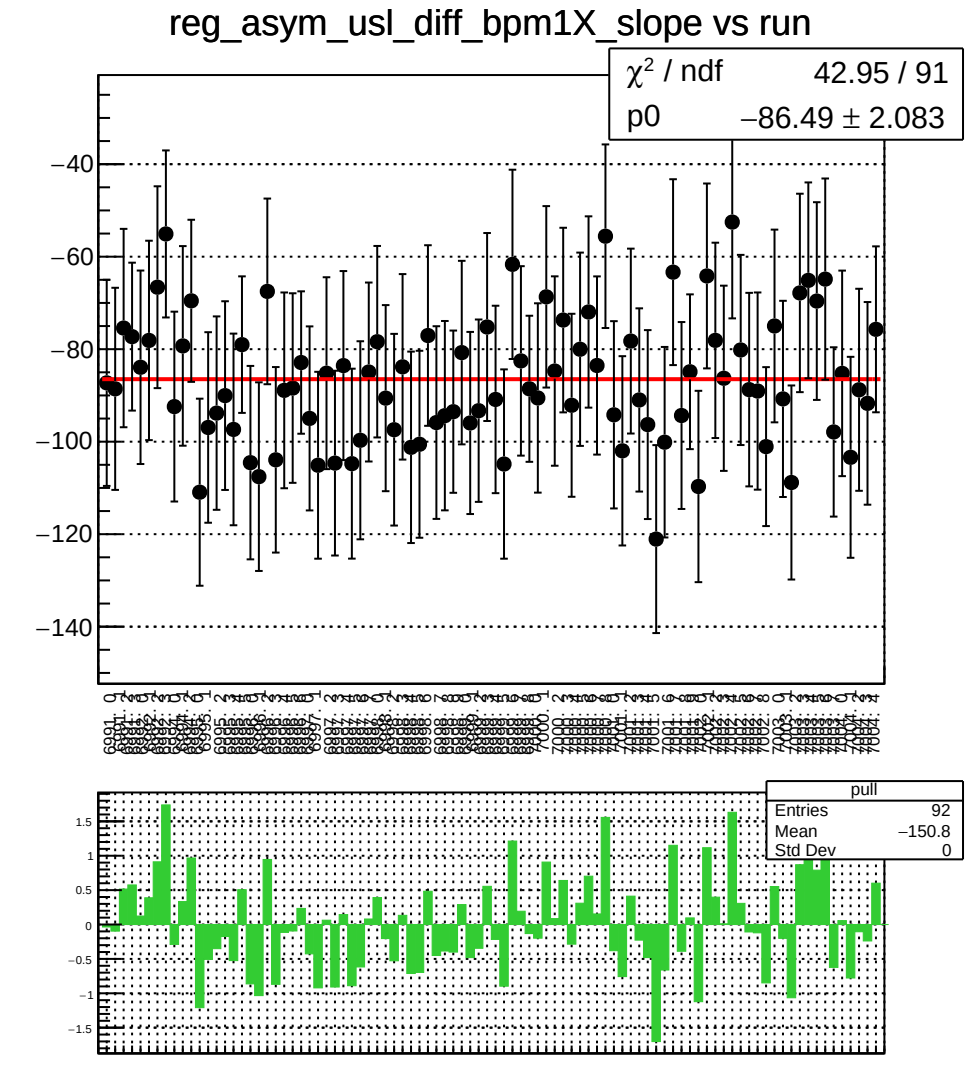

pull1D
Entries 92
Mean 0.04561
Std Dev 0.4813

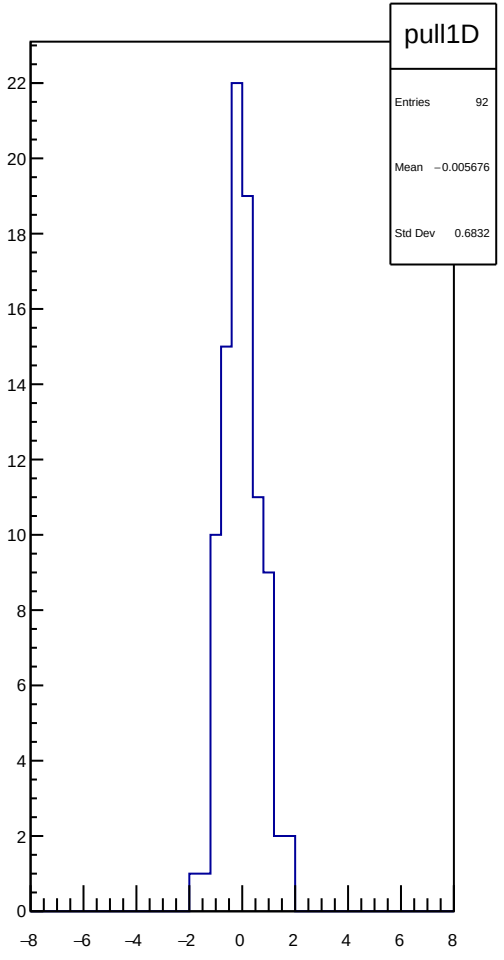

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 15.99 / 91
p0 −41.65 ± 0.3194
−36
−38
−40
−42
−44
−46
−48
pull
Entries 92
Mean 178.2
Std Dev 115
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.002754
Std Dev 0.4169
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

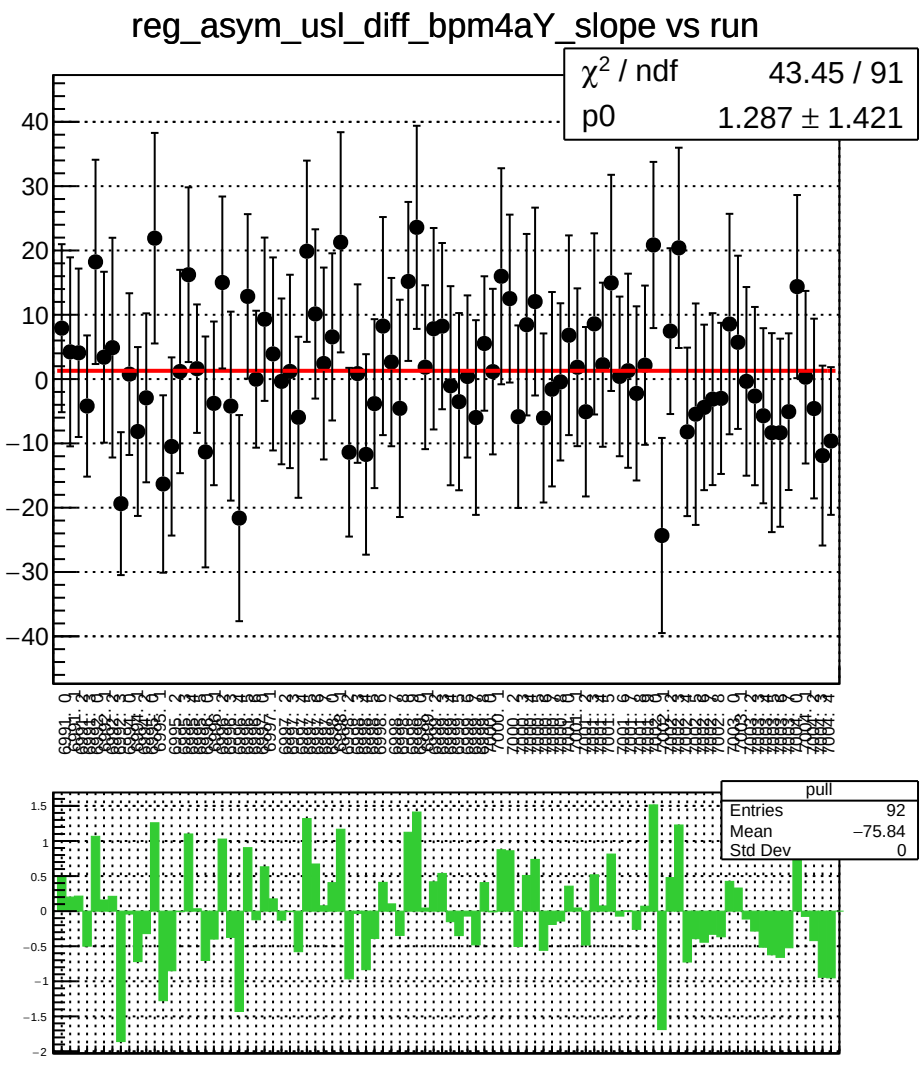

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 16.23 / 91
p0 45.74 ± 0.2478
pull
Entries 92
Mean −122.9
Std Dev 0

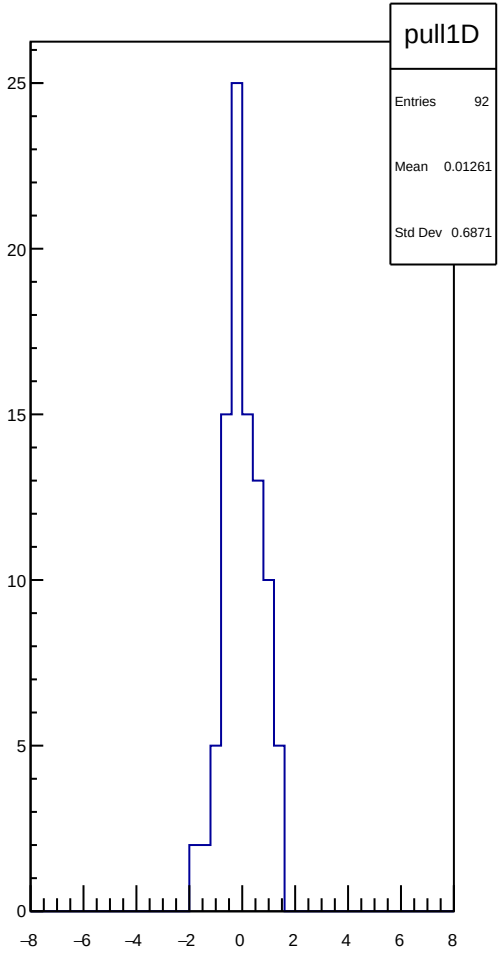

pull1D
Entries 92
Mean −0.02773
Std Dev 0.4191

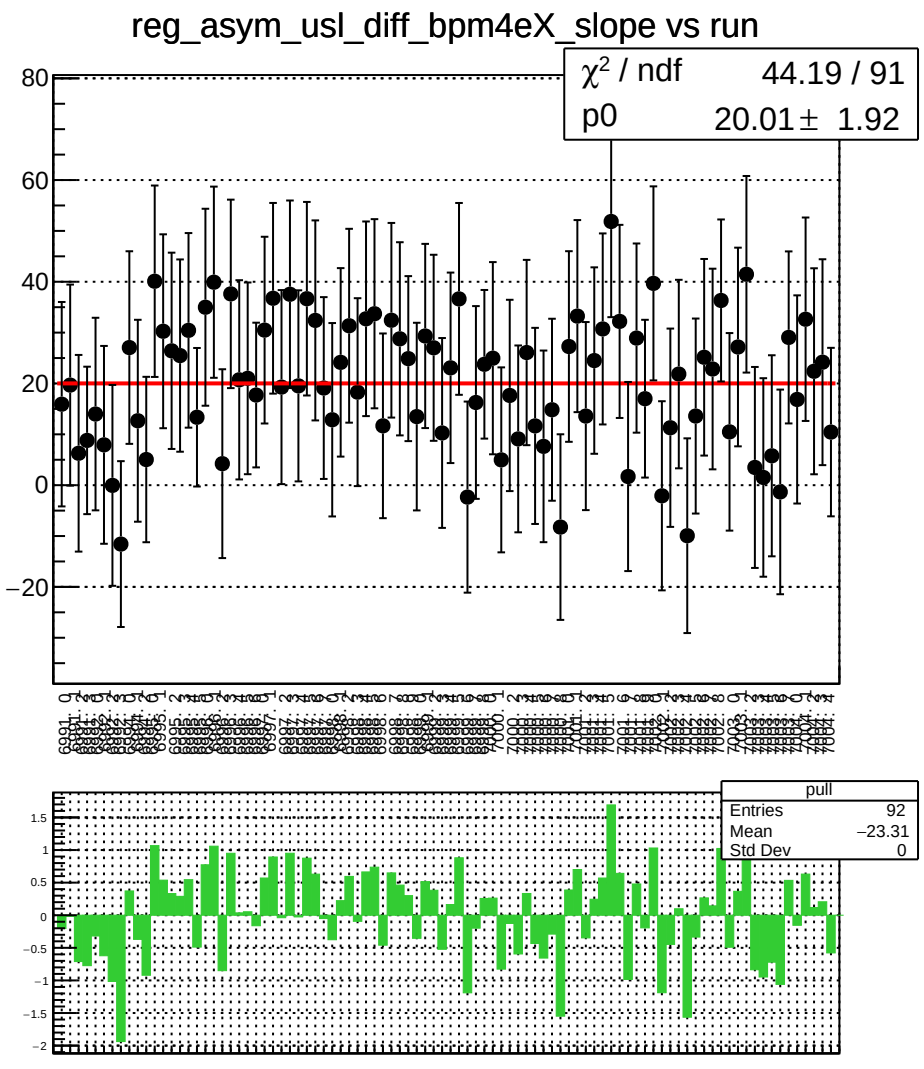

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 16.35 / 91
p0 0.3319 ± 0.01112
pull
Entries 92
Mean 84.56
Std Dev 239.1
pull1D
Entries 92
Mean −0.00367
Std Dev 0.4215

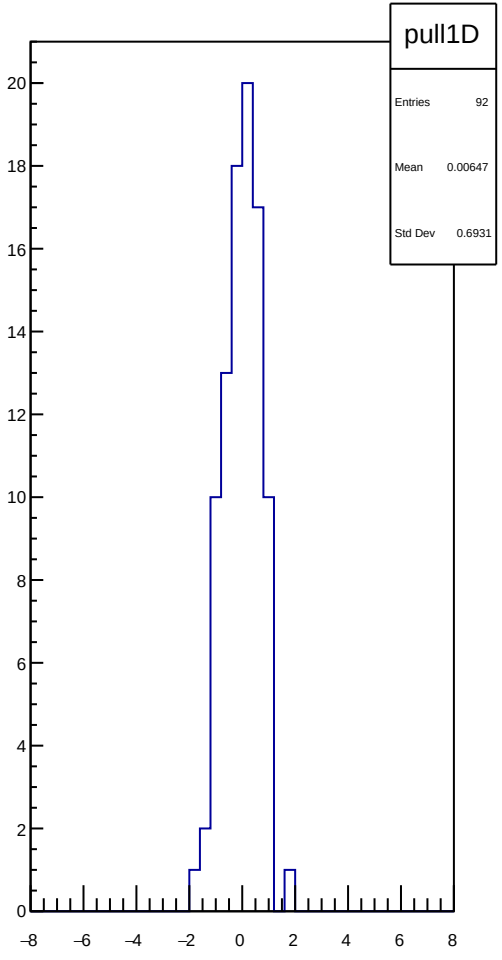

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 42.95 / 91
p0 −86.49 ± 2.083
−40
−60
−80
−100
−120
−140
pull
Entries 92
Mean −150.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

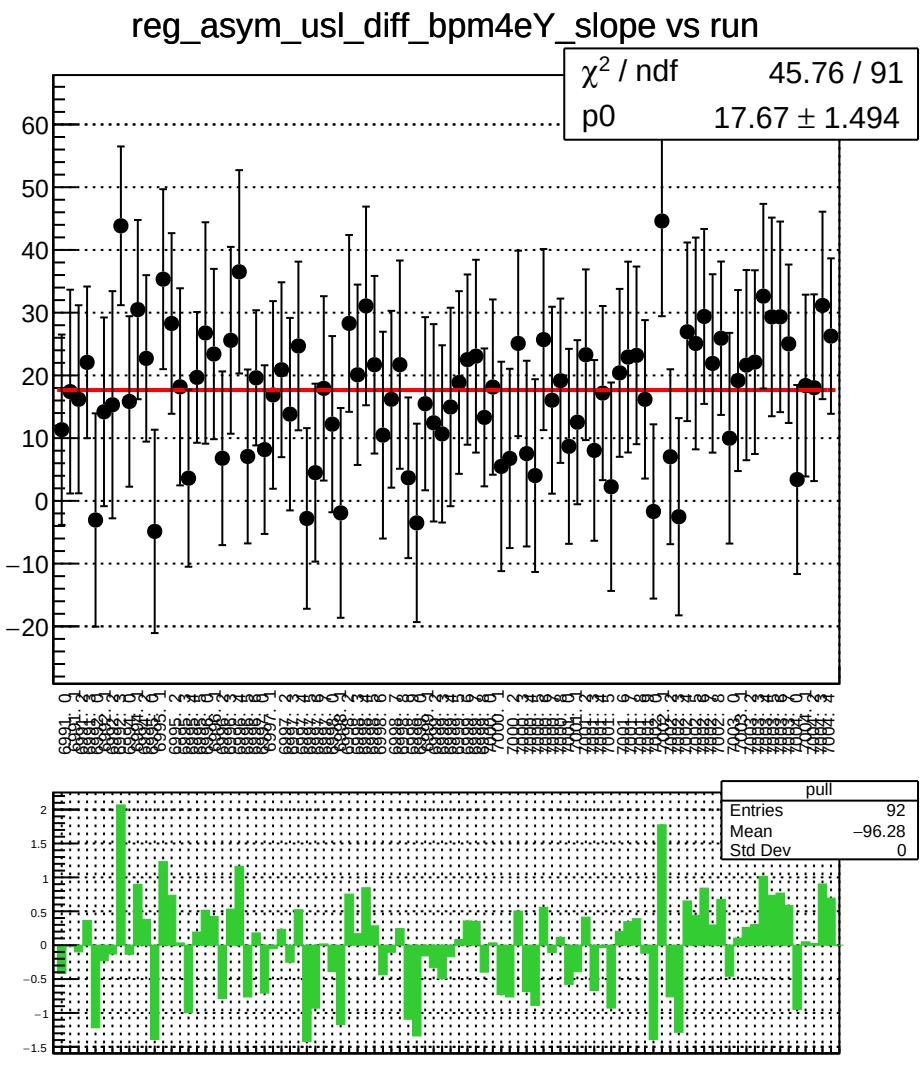

pull1D
Entries 92
Mean −0.005676
Std Dev 0.6832
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

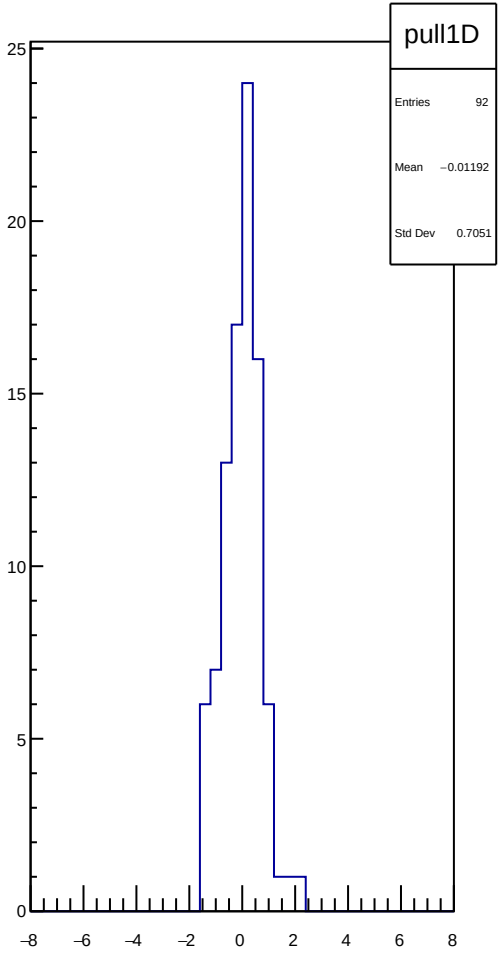

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 43.45 / 91
p0 1.287 ± 1.421
pull
Entries 92
Mean −75.84
Std Dev 0

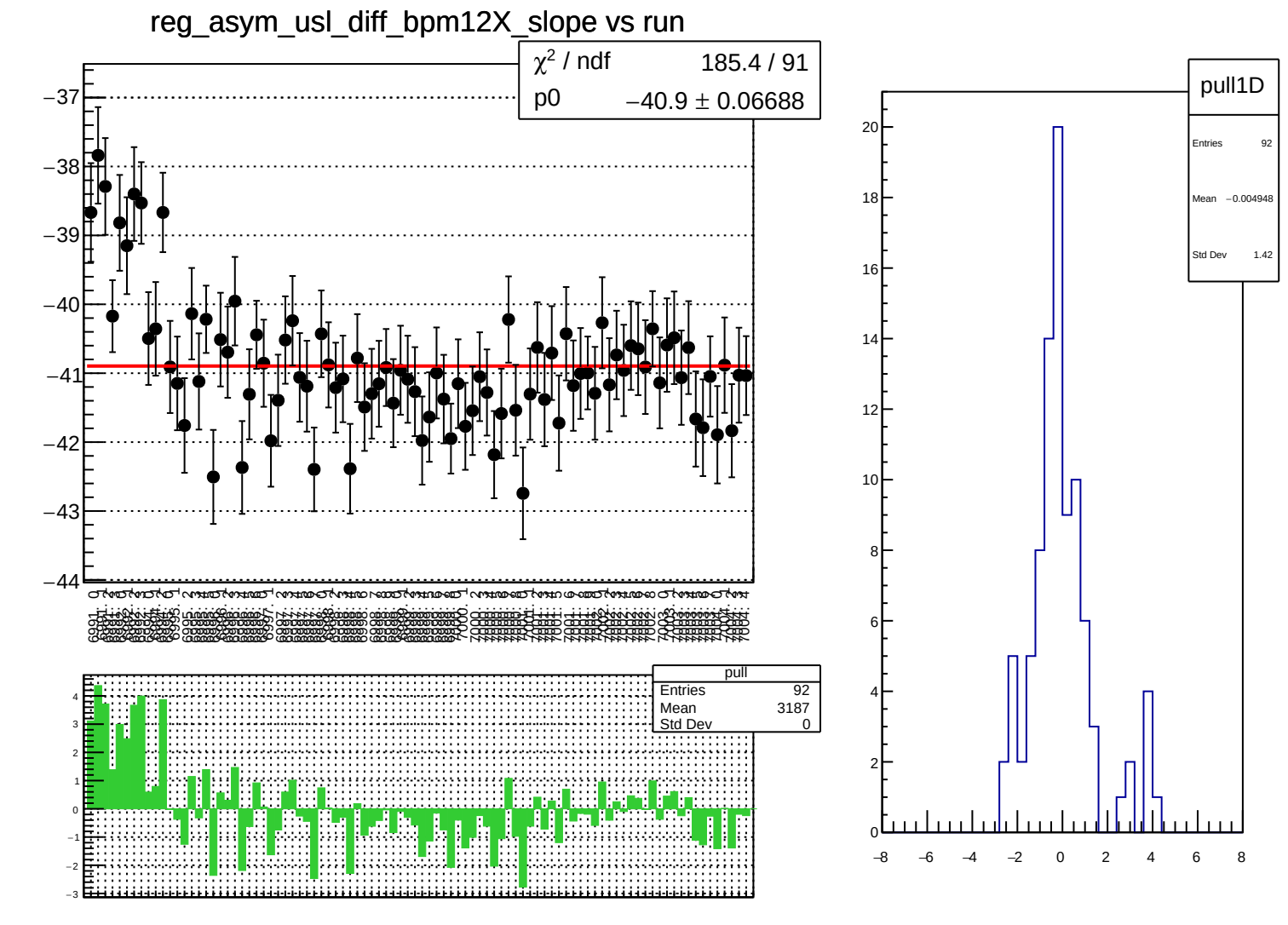

pull1D
Entries 92
Mean 0.01261
Std Dev 0.6871

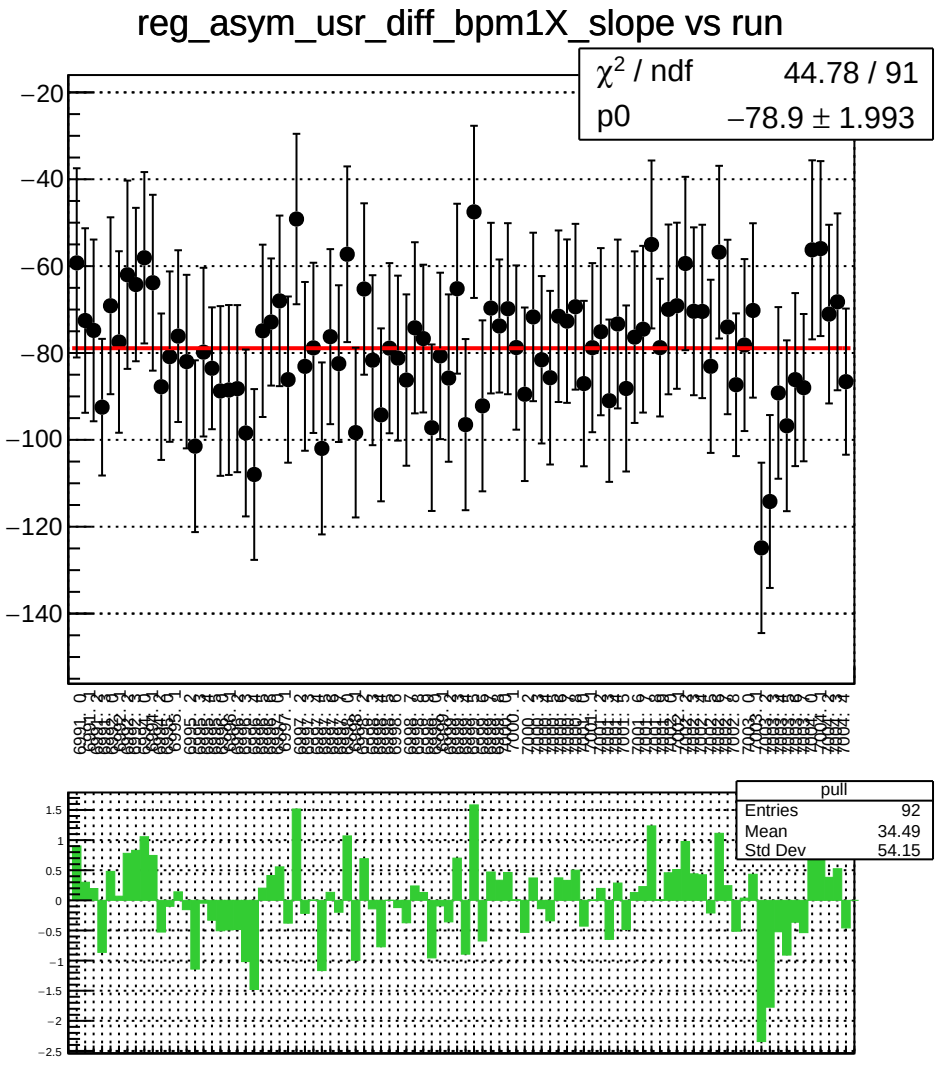

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 44.19 / 91
p0 20.01 ± 1.92
pull
Entries 92
Mean −23.31
Std Dev 0

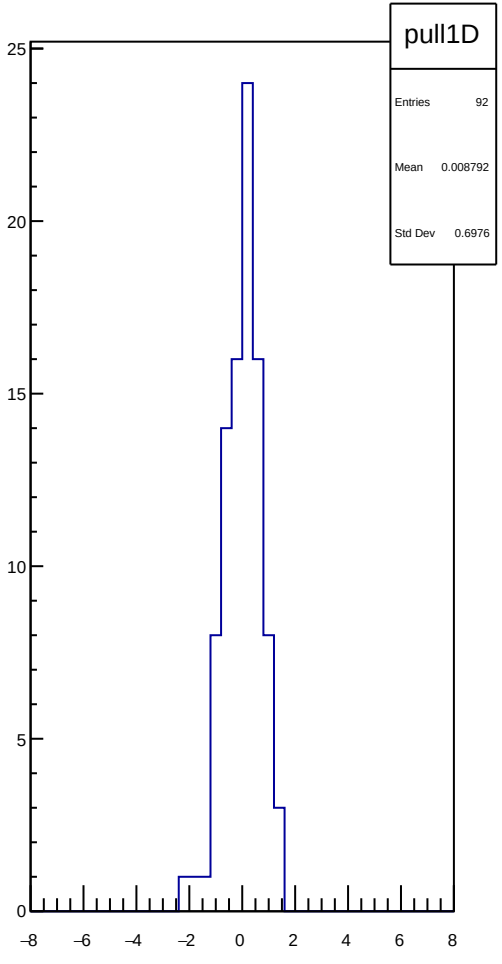

pull1D
Entries 92
Mean 0.00647
Std Dev 0.6931

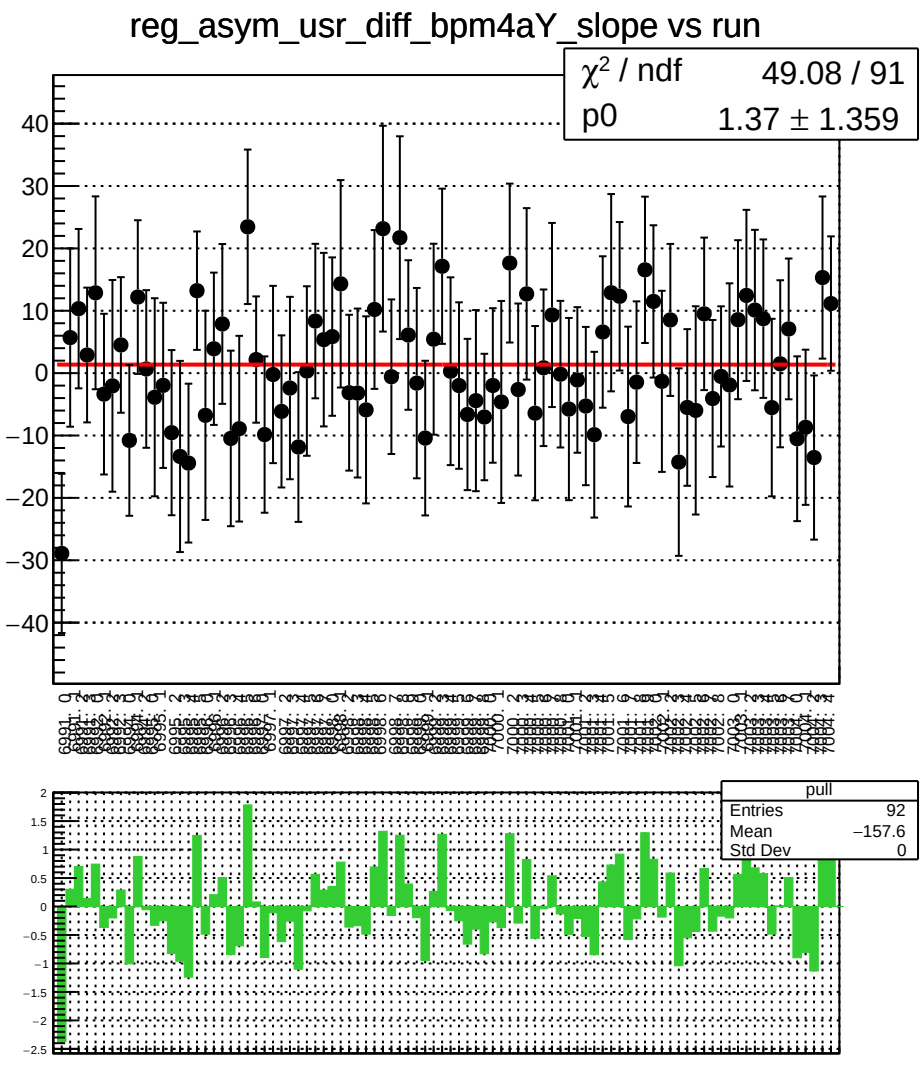

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 45.76 / 91
p0 17.67 ± 1.494
pull
Entries 92
Mean −96.28
Std Dev 0

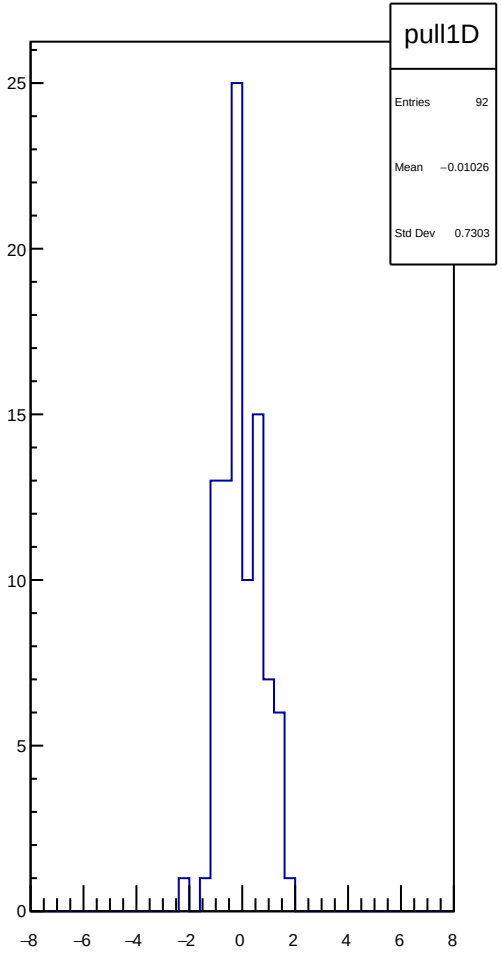

pull1D
Entries 92
Mean −0.01192
Std Dev 0.7051

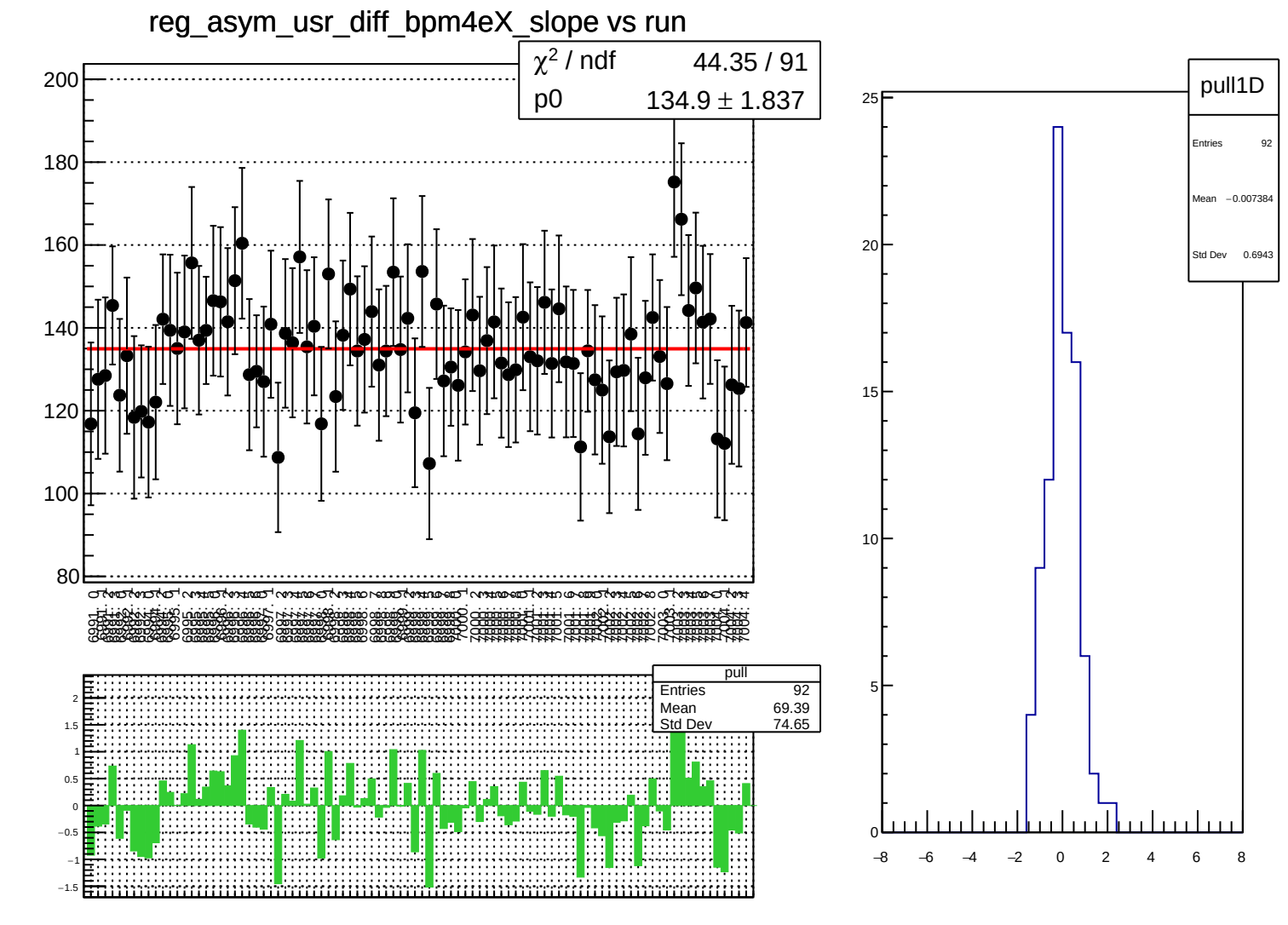

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 185.4 / 91
p0 −40.9 ± 0.06688
pull
Entries 92
Mean 3187
Std Dev 0
pull1D
Entries 92
Mean −0.004948
Std Dev 1.42

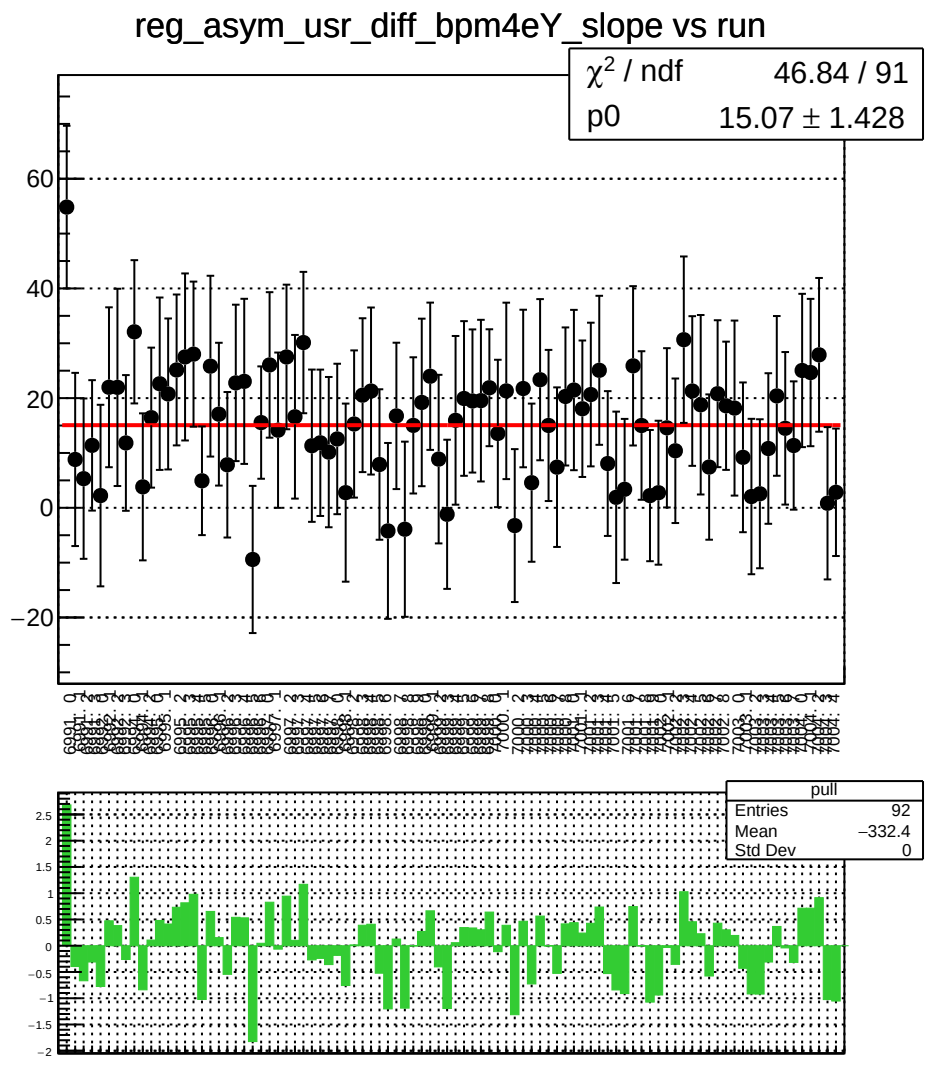

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 44.78 / 91
p0 −78.9 ± 1.993
pull
Entries 92
Mean 34.49
Std Dev 54.15

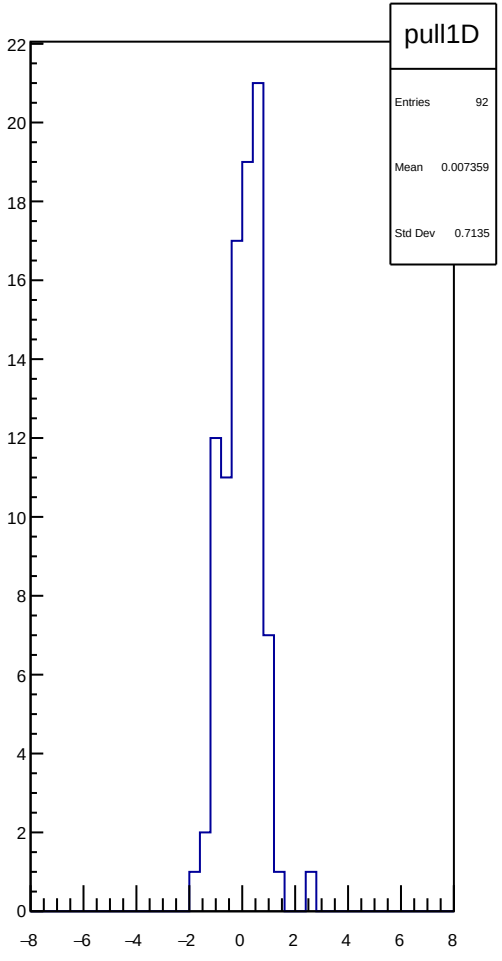

pull1D
Entries 92
Mean 0.008792
Std Dev 0.6976

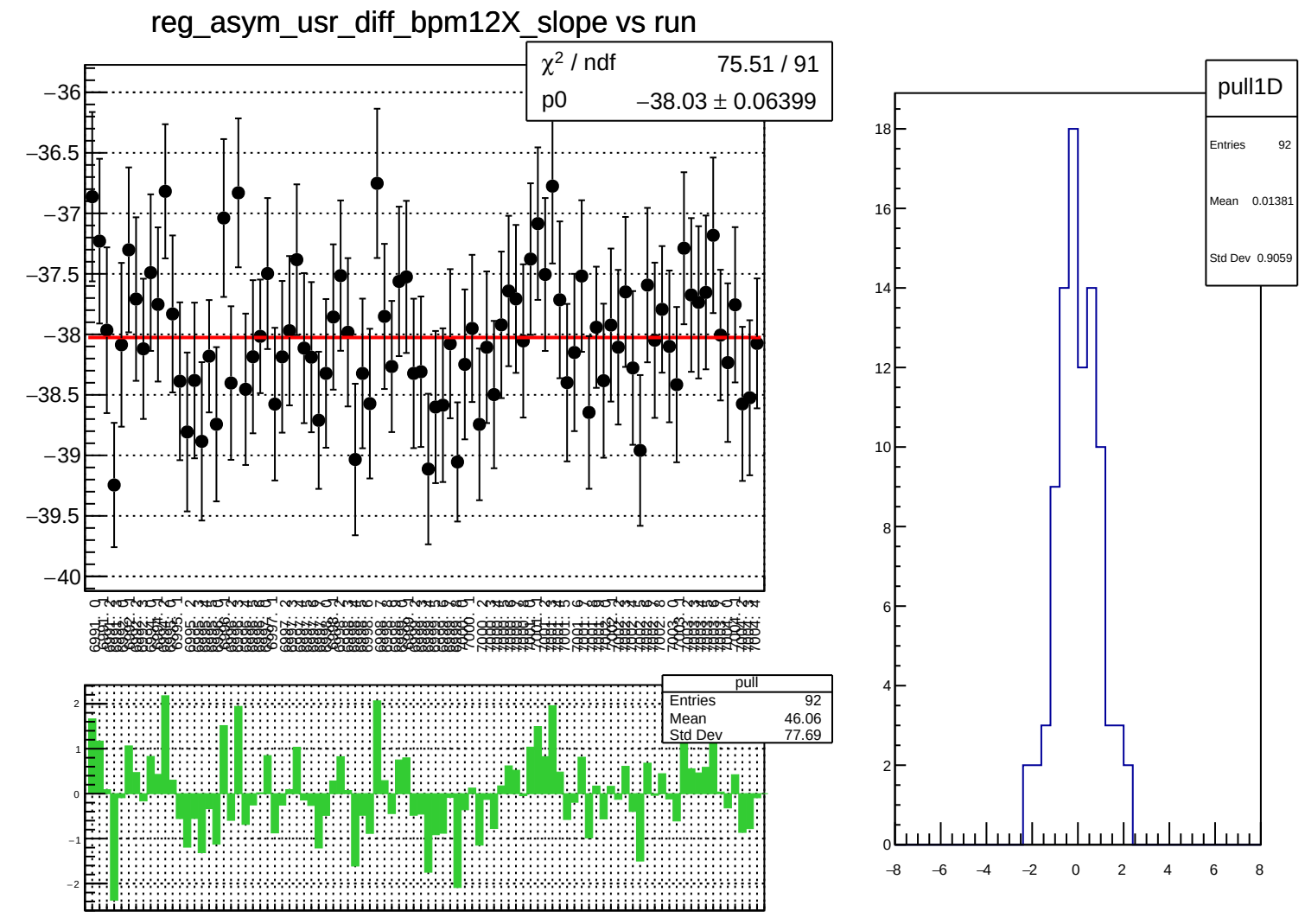

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 49.08 / 91
p0 1.37 ± 1.359
pull
Entries 92
Mean −157.6
Std Dev 0

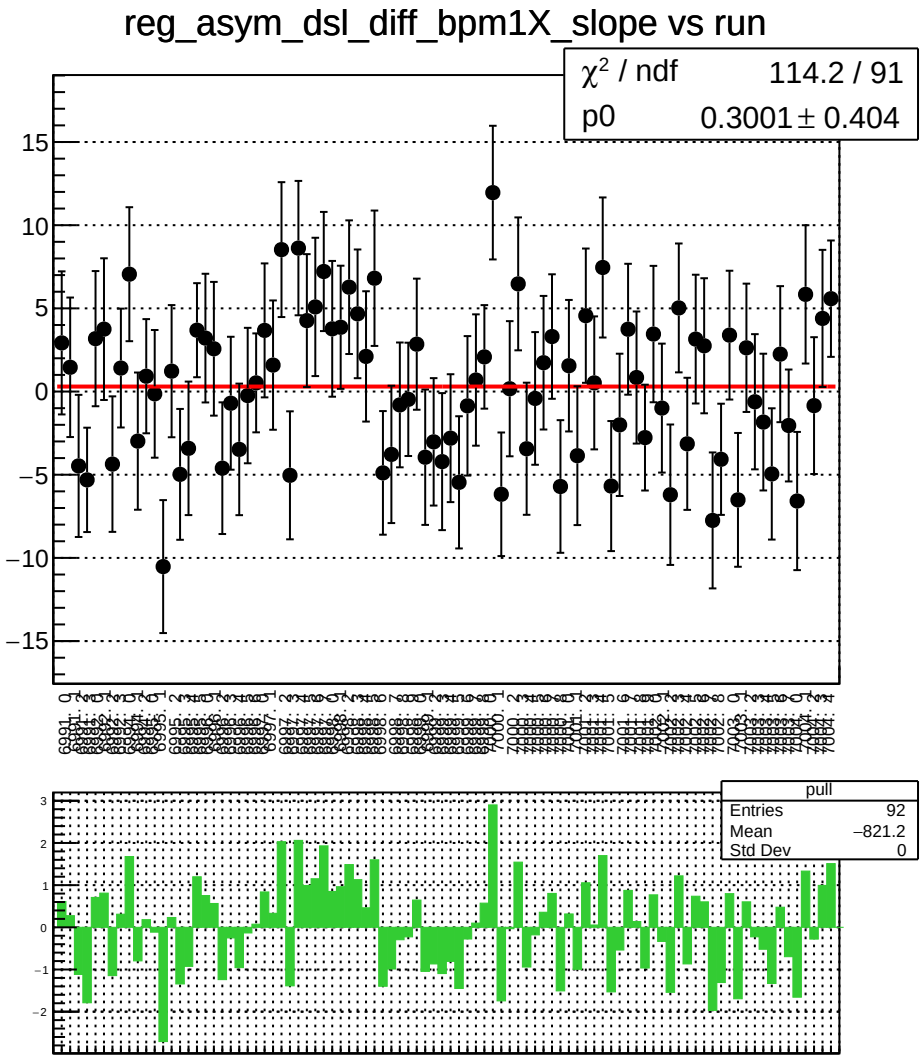

pull1D
Entries 92
Mean −0.01026
Std Dev 0.7303

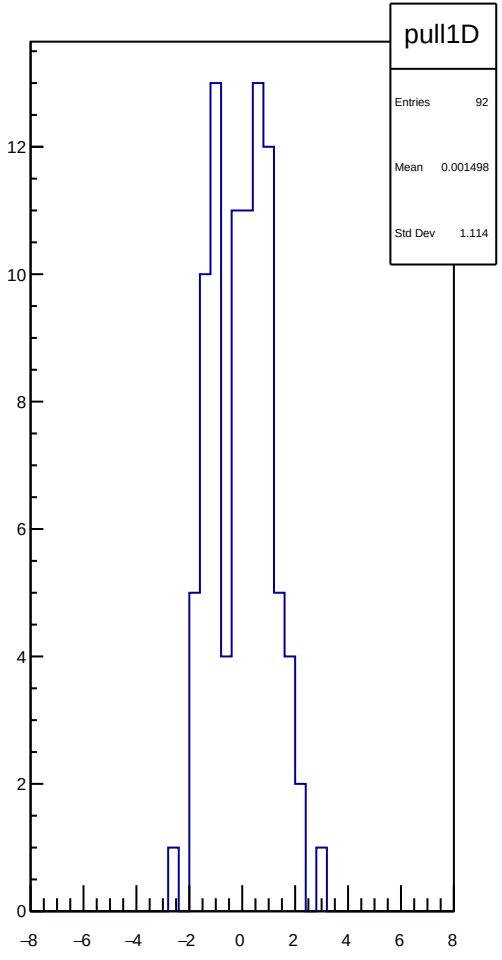

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 44.35 / 91
p0 134.9 ± 1.837
pull
Entries 92
Mean 69.39
Std Dev 74.65
pull1D
Entries 92
Mean −0.007384
Std Dev 0.6943

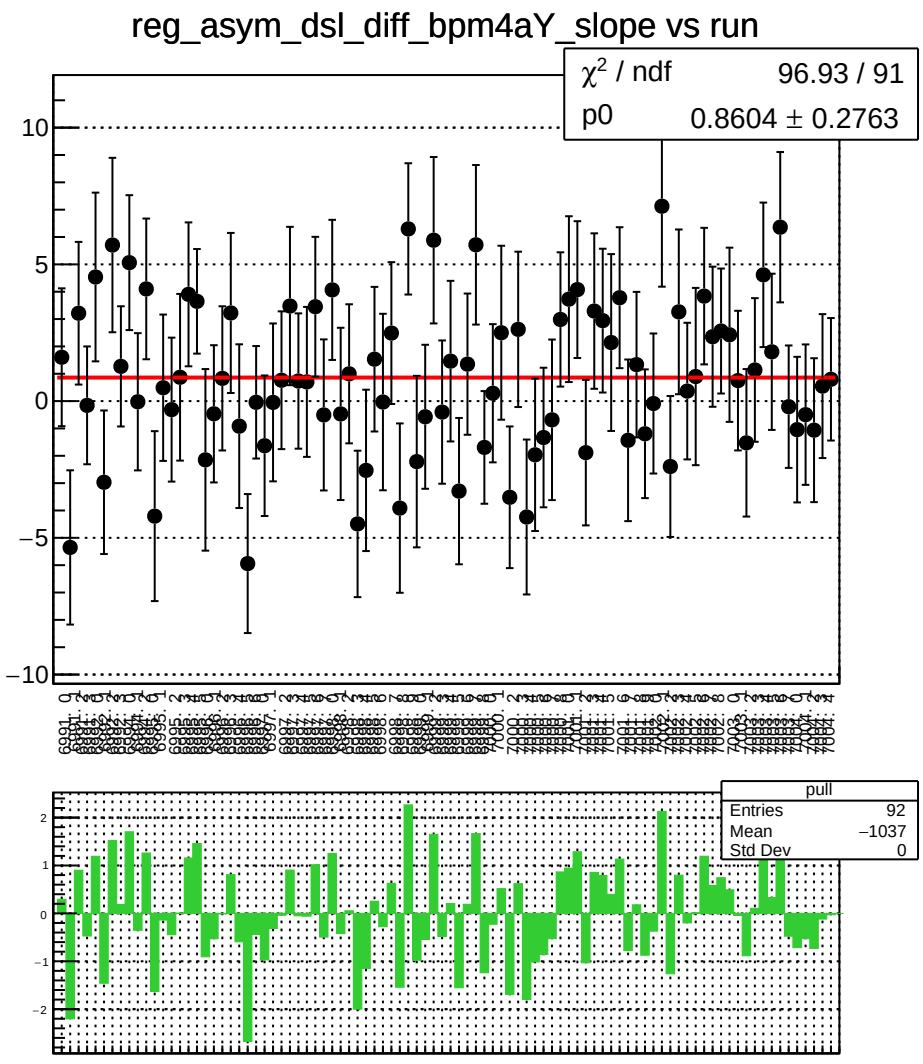

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 46.84 / 91
p0 15.07 ± 1.428
pull
Entries 92
Mean −332.4
Std Dev 0

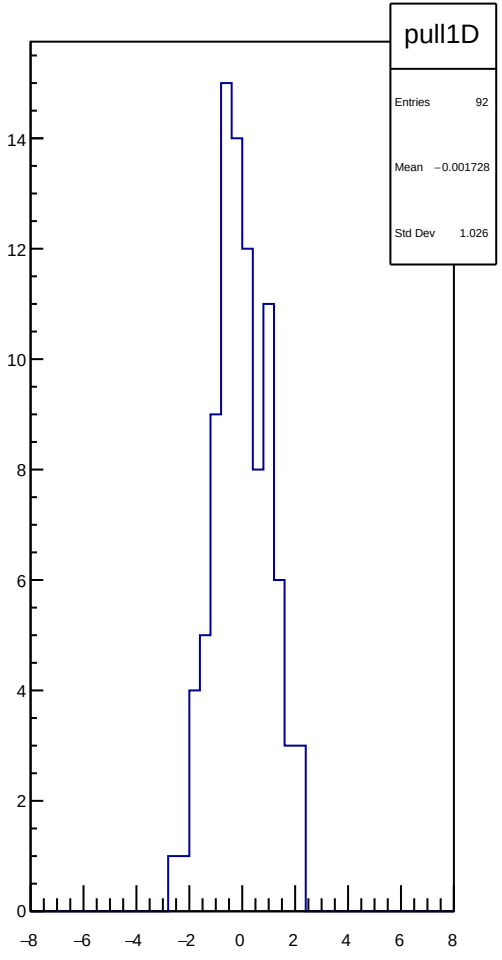

pull1D
Entries 92
Mean 0.007359
Std Dev 0.7135

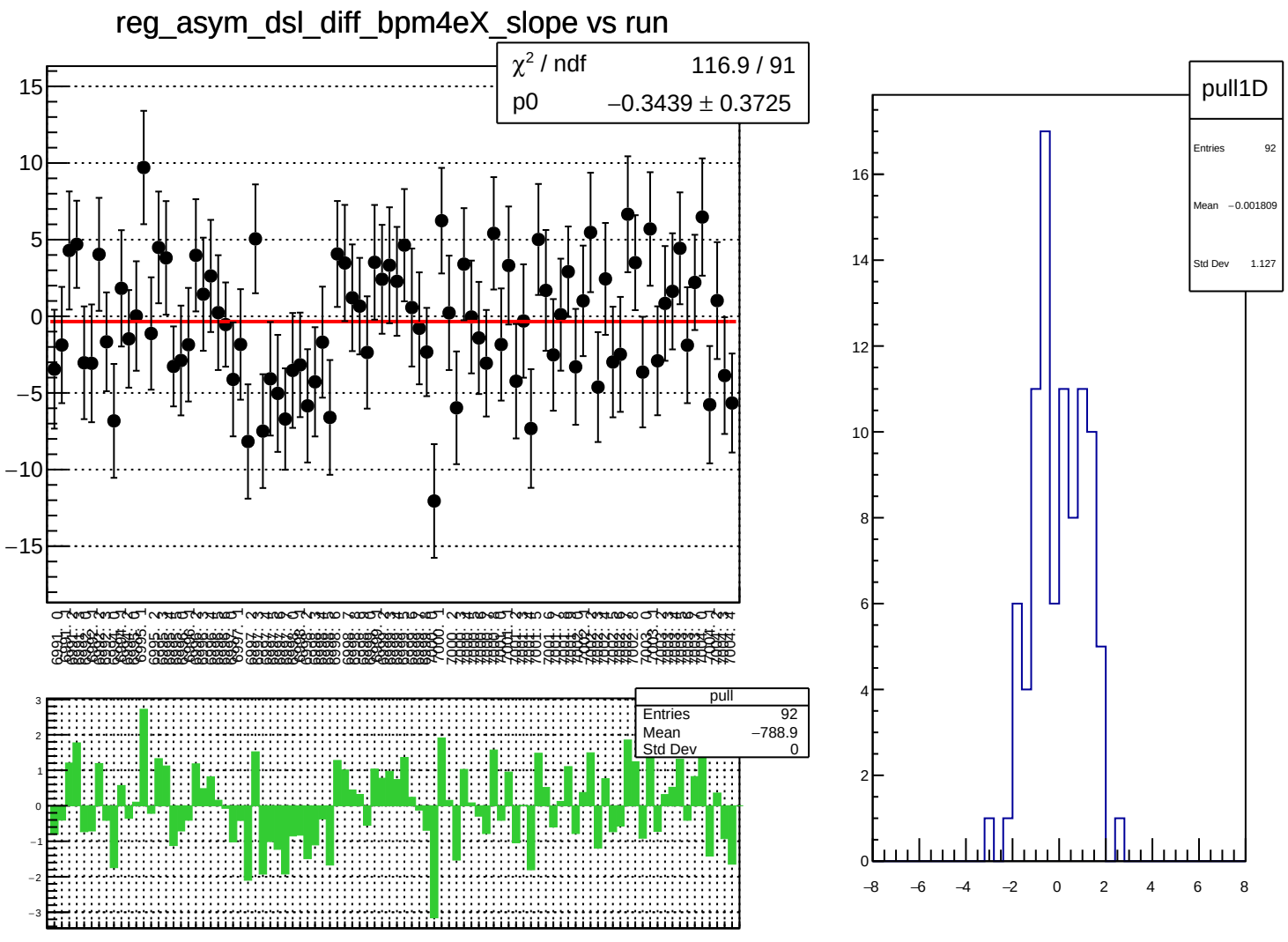

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 75.51 / 91
p0 −38.03 ± 0.06399
pull
Entries 92
Mean 46.06
Std Dev 77.69
pull1D
Entries 92
Mean 0.01381
Std Dev 0.9059

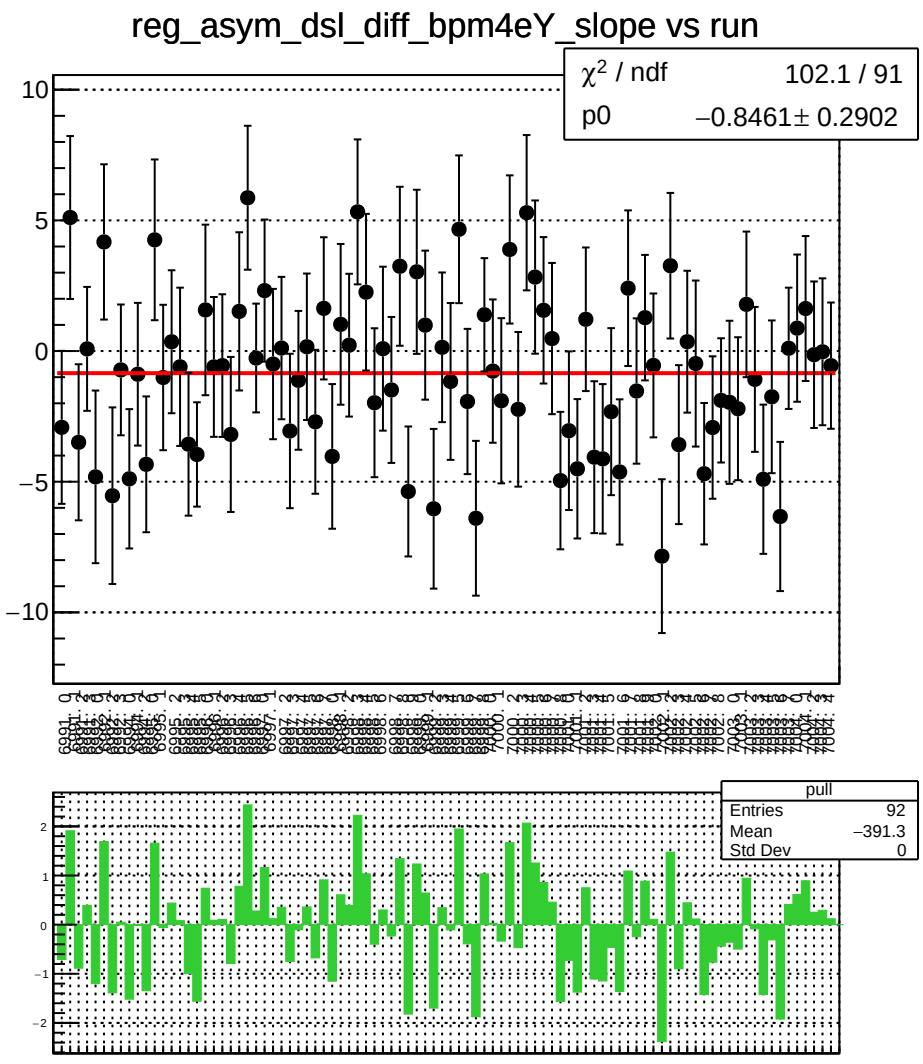

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 114.2 / 91
p0 0.3001 ± 0.404
pull
Entries 92
Mean −821.2
Std Dev 0

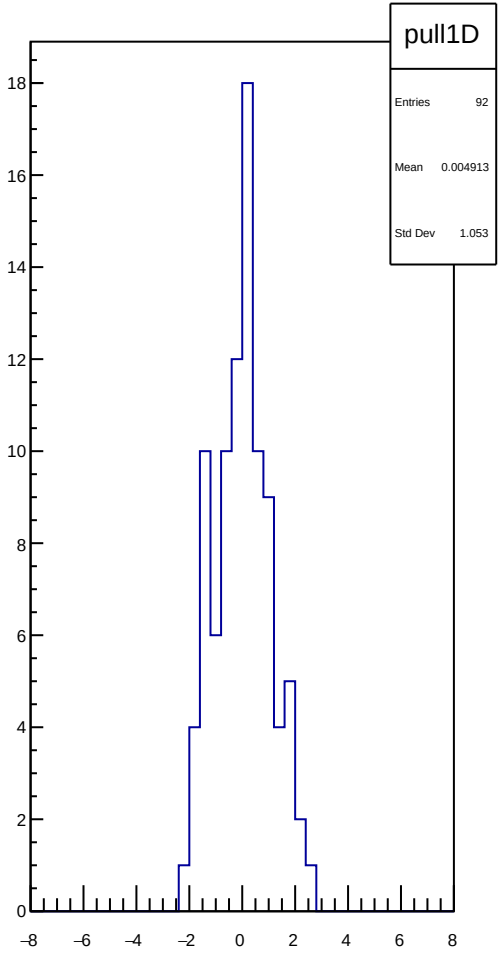

pull1D
Entries 92
Mean 0.001498
Std Dev 1.114

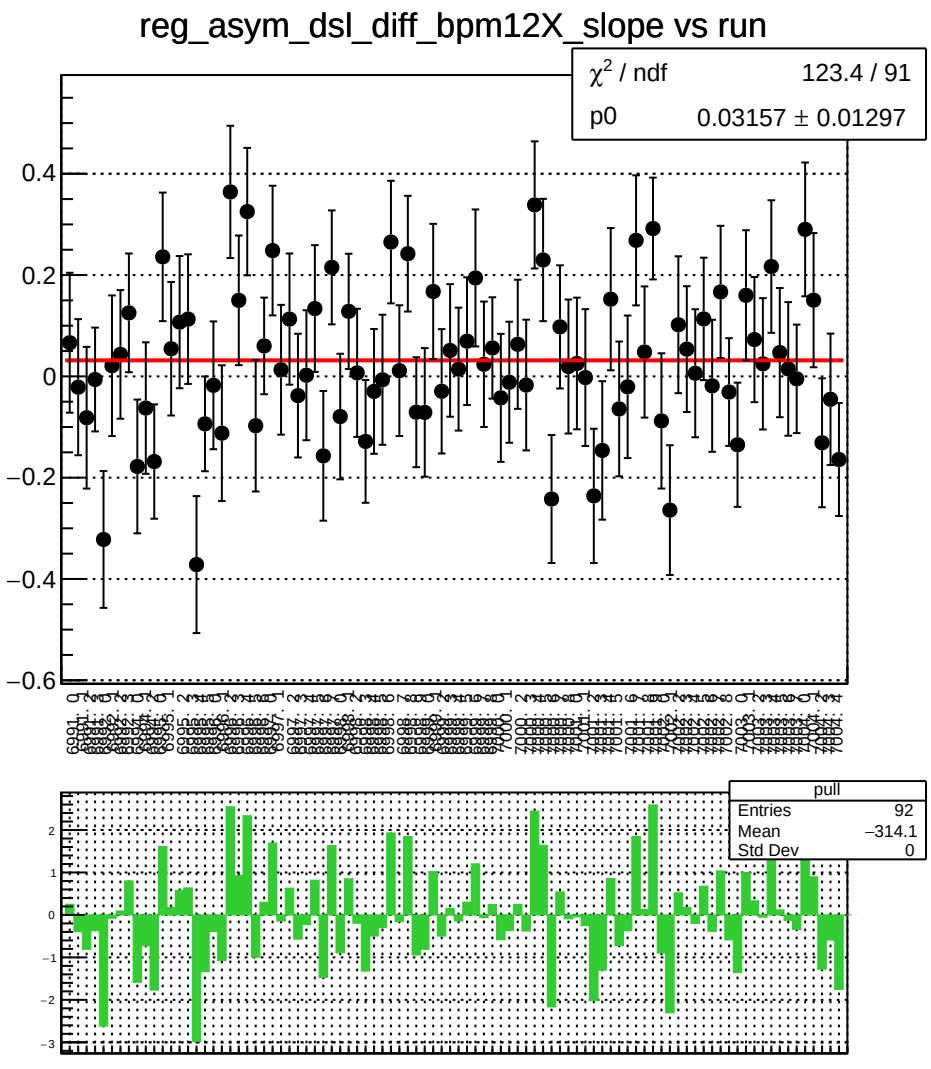

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 96.93 / 91
p0 0.8604 ± 0.2763
pull
Entries 92
Mean −1037
Std Dev 0

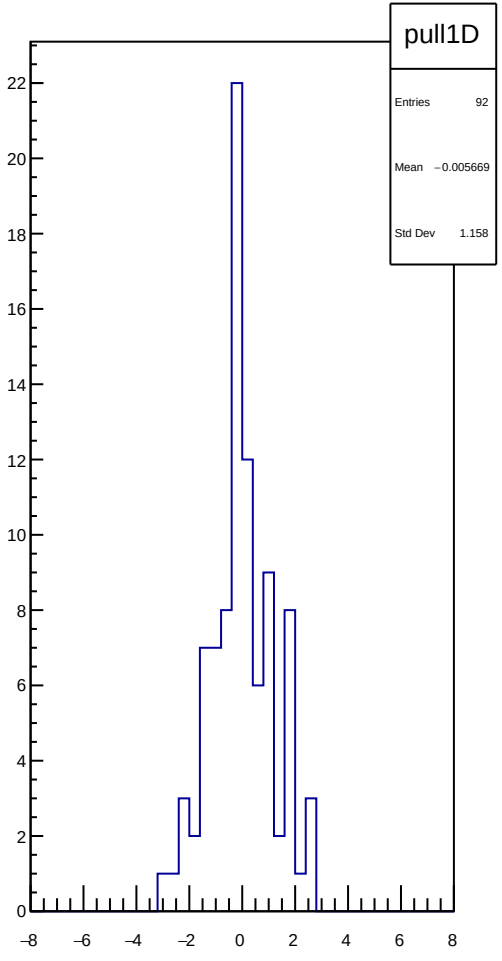

pull1D
Entries 92
Mean −0.001728
Std Dev 1.026

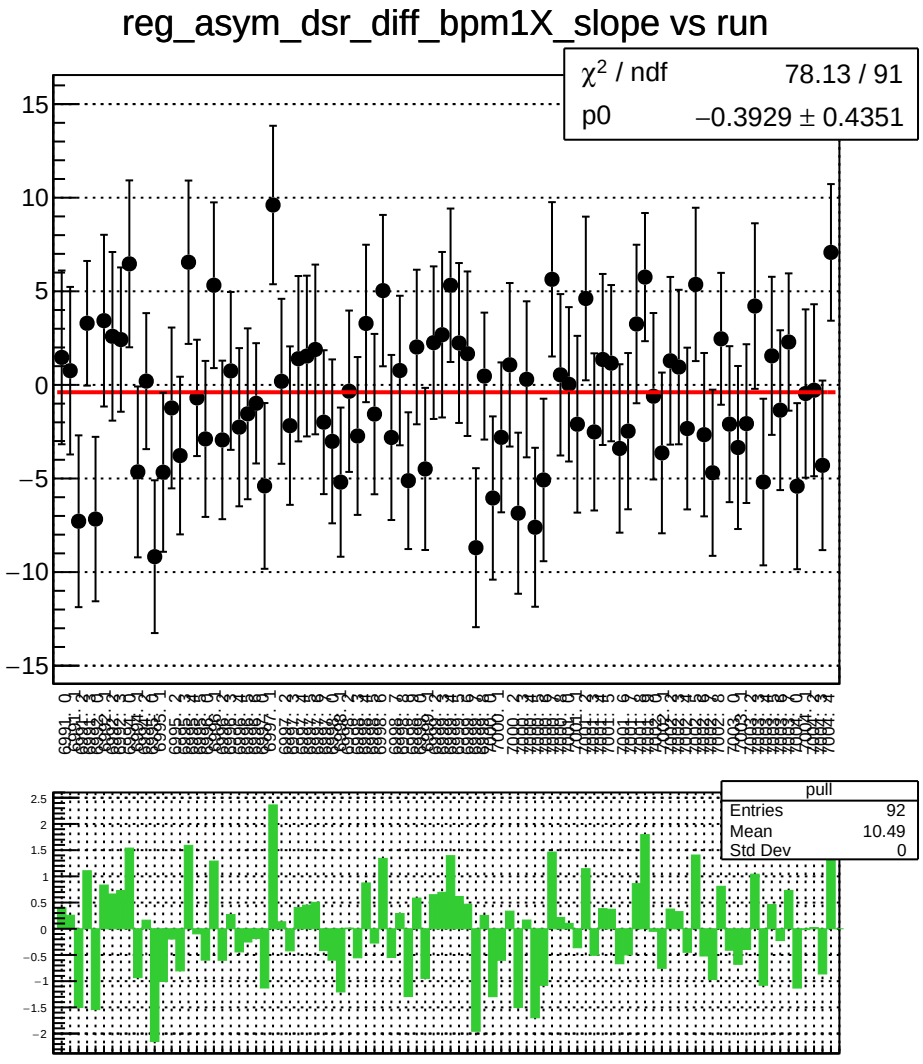

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 116.9 / 91
p0 −0.3439 ± 0.3725
pull
Entries 92
Mean −788.9
Std Dev 0
pull1D
Entries 92
Mean −0.001809
Std Dev 1.127

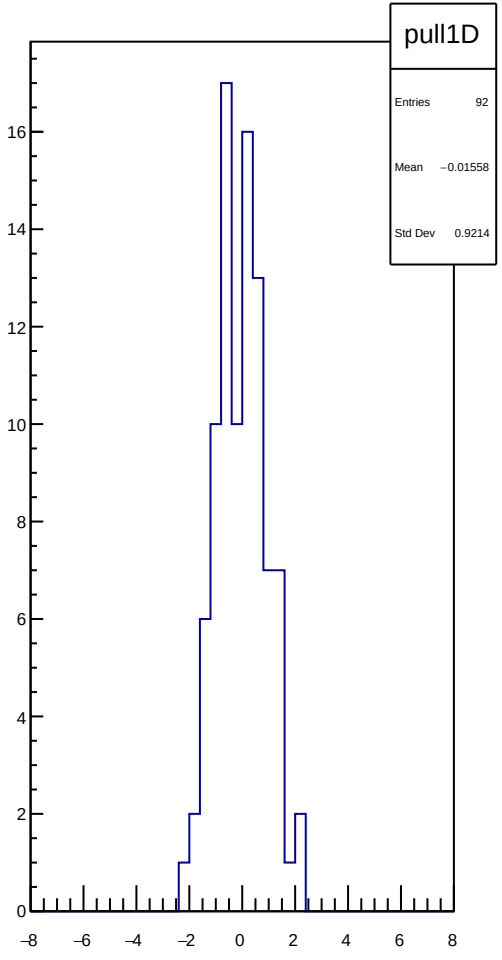

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 102.1 / 91
p0 −0.8461± 0.2902
pull
Entries 92
Mean −391.3
Std Dev 0

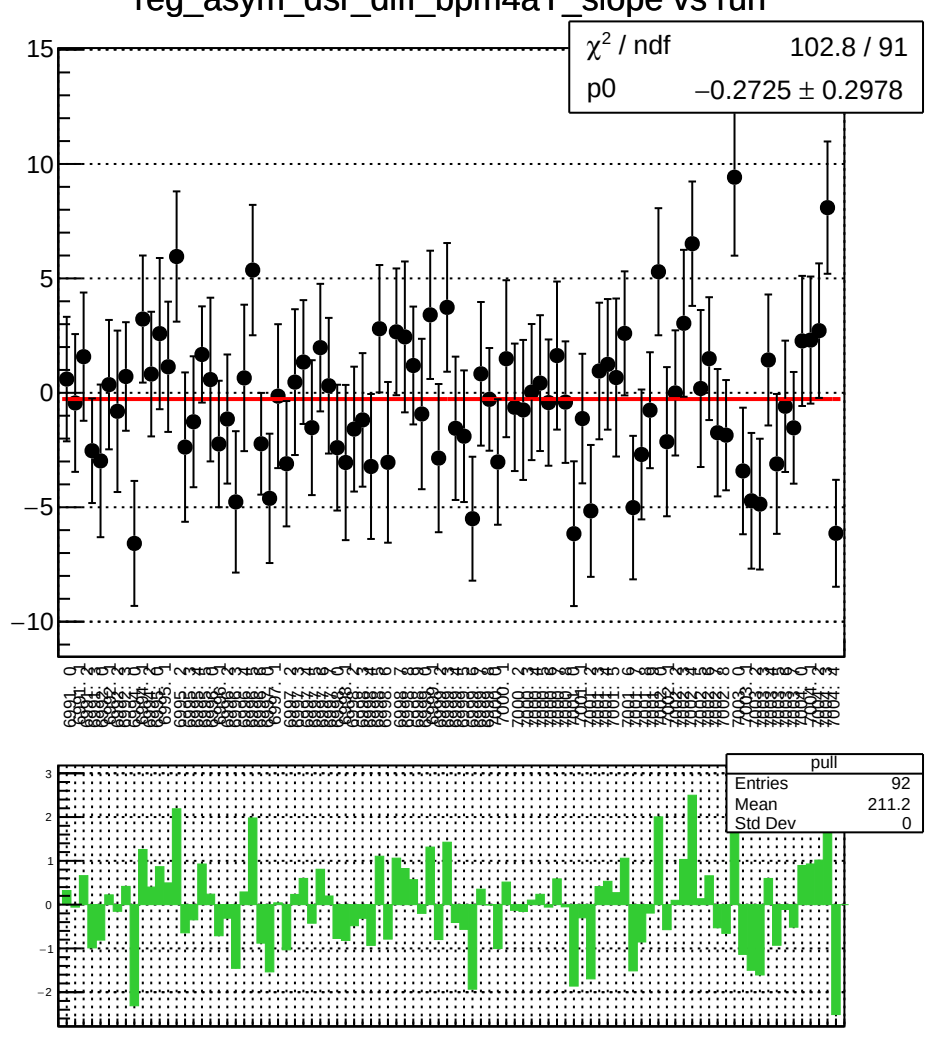

pull1D
Entries 92
Mean 0.004913
Std Dev 1.053

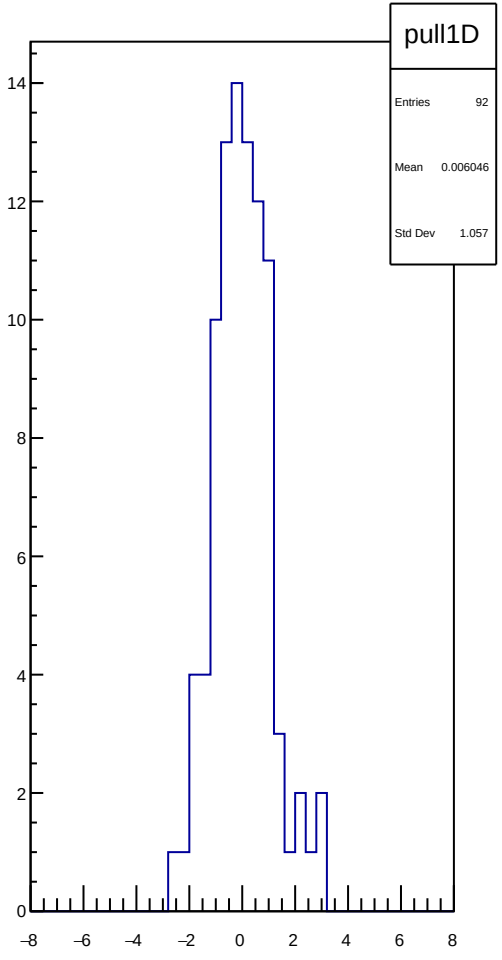

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 123.4 / 91
p0 0.03157 ± 0.01297
pull
Entries 92
Mean −314.1
Std Dev 0

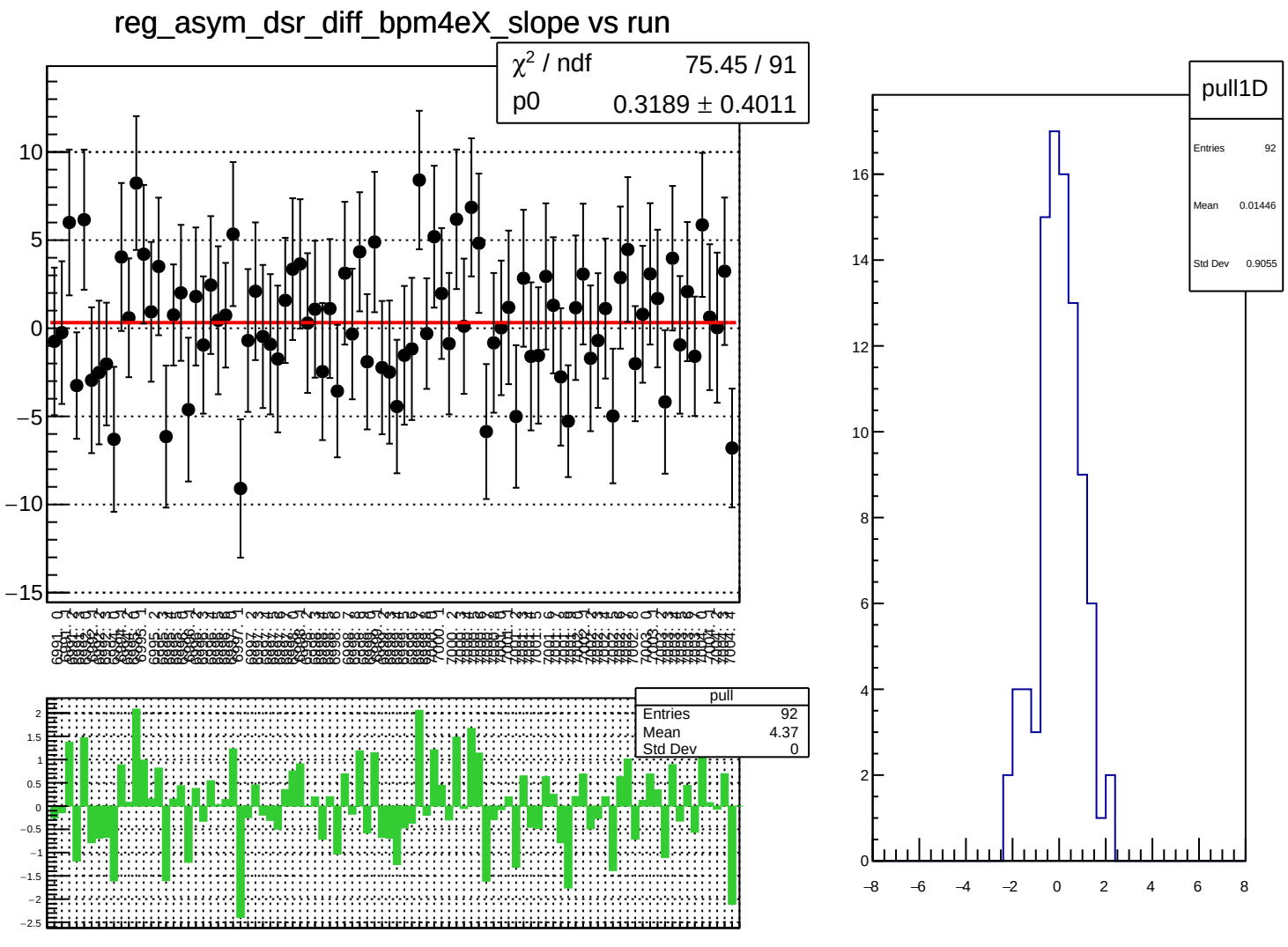

pull1D
Entries 92
Mean −0.005669
Std Dev 1.158

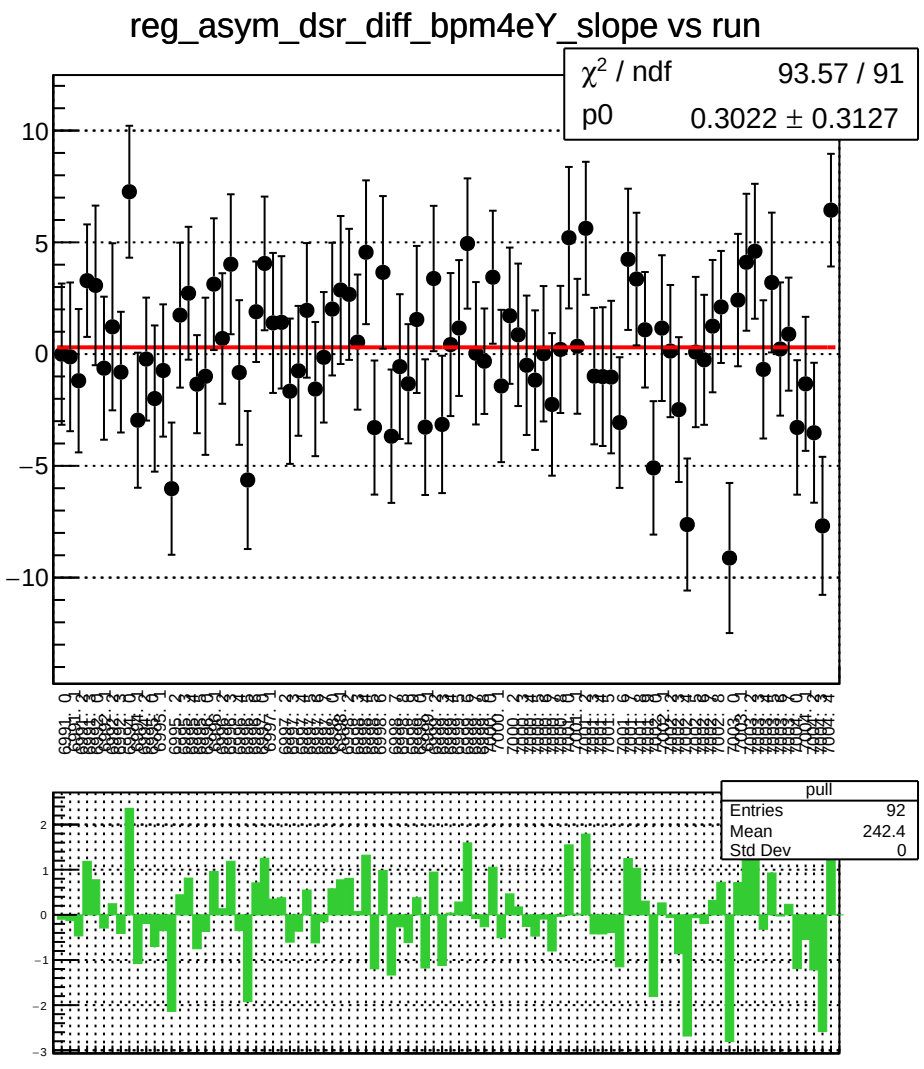

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 78.13 / 91
p0 −0.3929 ± 0.4351
pull
Entries 92
Mean 10.49
Std Dev 0

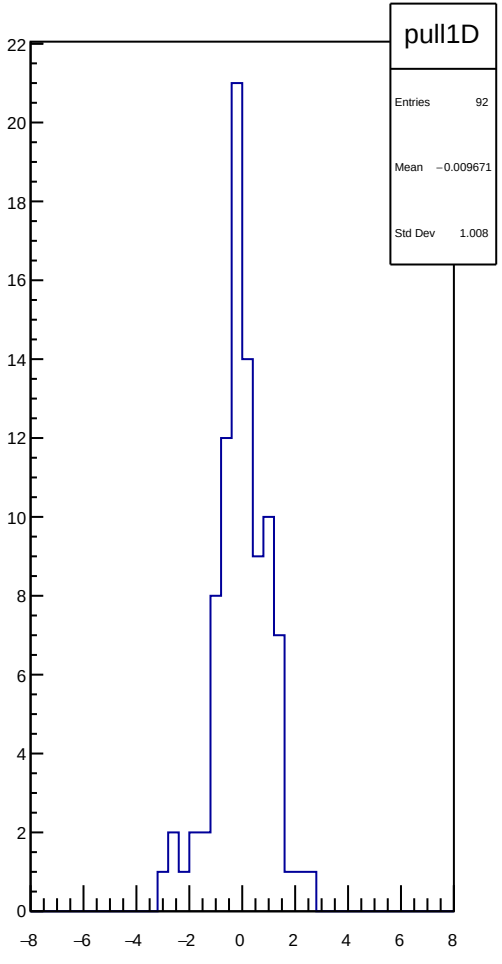

pull1D
Entries 92
Mean −0.01558
Std Dev 0.9214

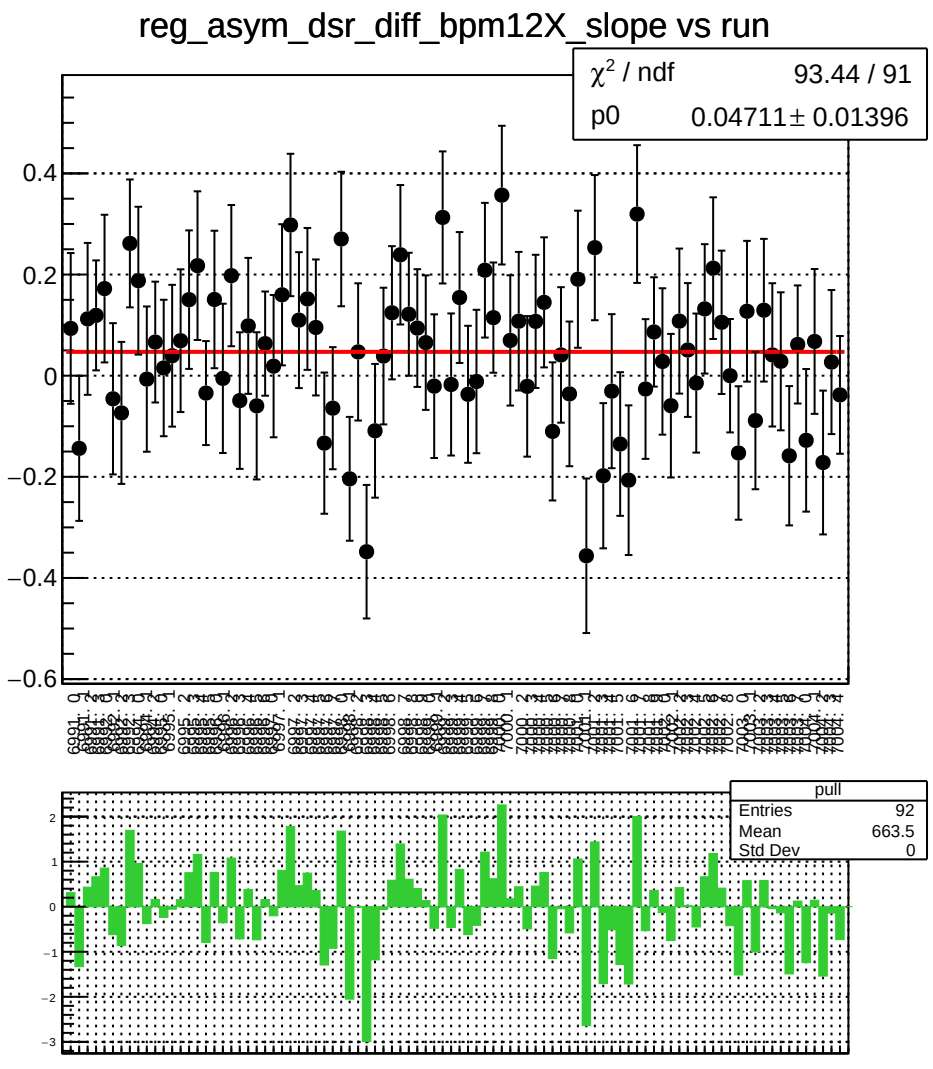

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 102.8 / 91
p0 −0.2725 ± 0.2978
pull
Entries 92
Mean 211.2
Std Dev 0

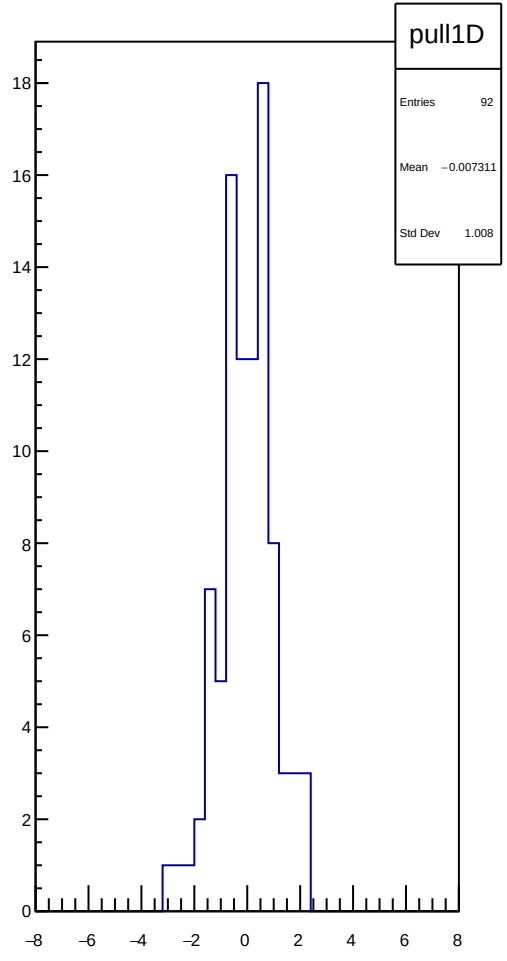

pull1D
Entries 92
Mean 0.006046
Std Dev 1.057

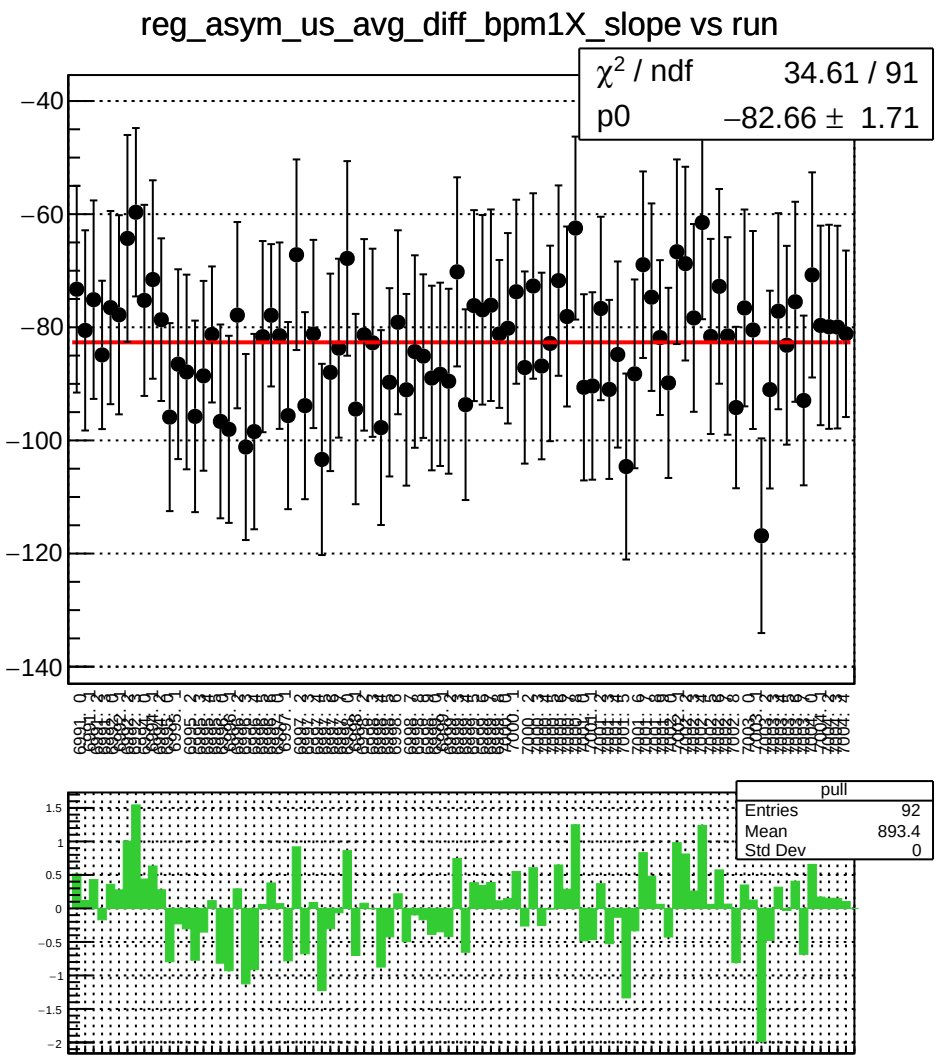

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 75.45 / 91
p0 0.3189 ± 0.4011
pull
Entries 92
Mean 4.37
Std Dev 0
pull1D
Entries 92
Mean 0.01446
Std Dev 0.9055

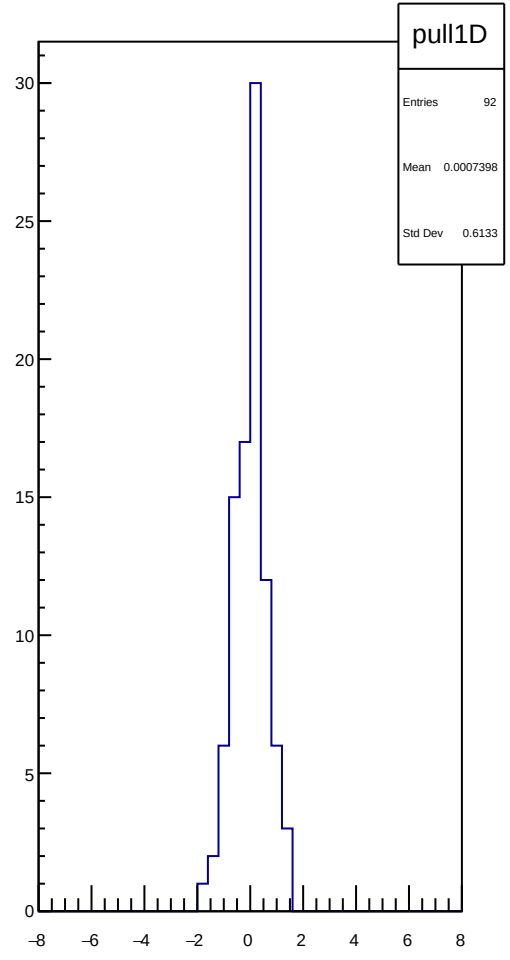

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 93.57 / 91
p0 0.3022 ± 0.3127
pull
Entries 92
Mean 242.4
Std Dev 0

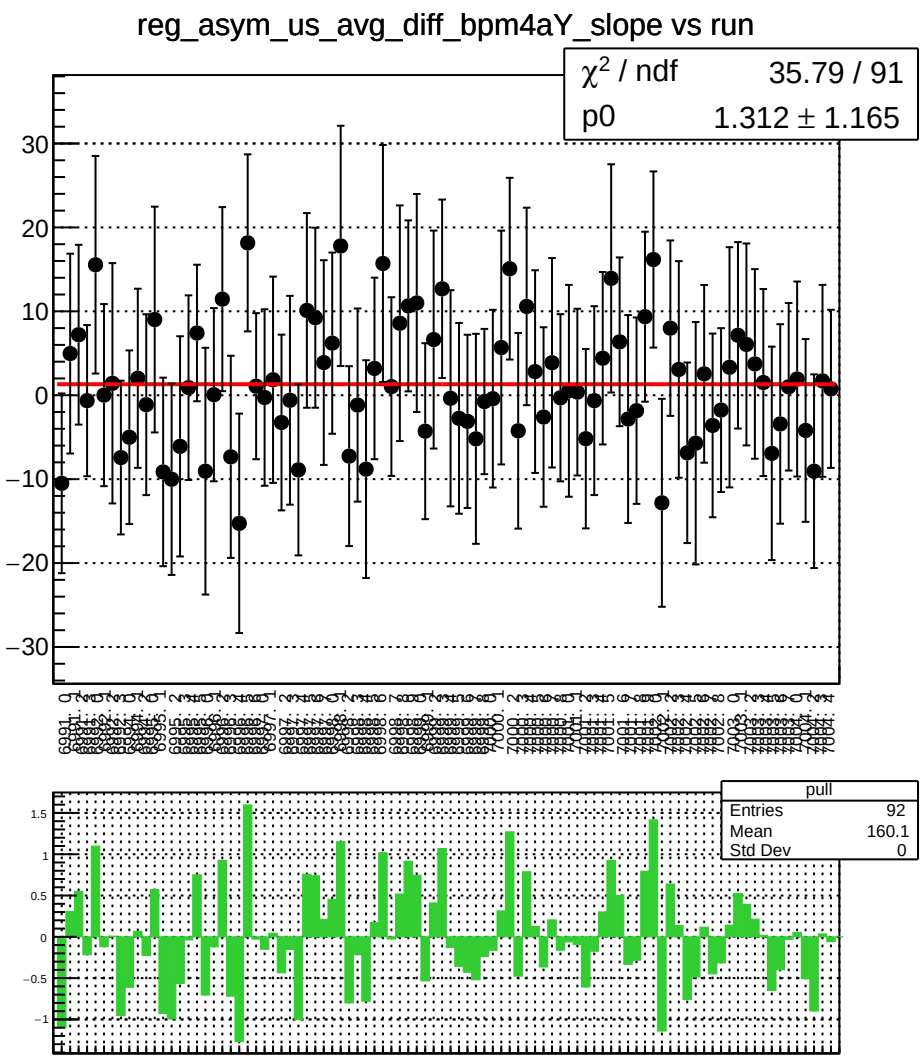

pull1D
Entries 92
Mean −0.009671
Std Dev 1.008

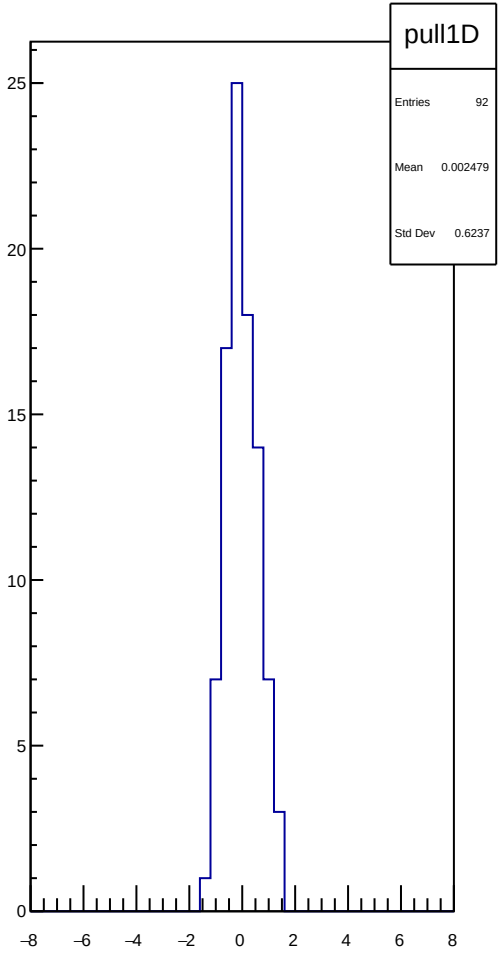

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 93.44 / 91
p0 0.04711 ± 0.01396
pull
Entries 92
Mean 663.5
Std Dev 0

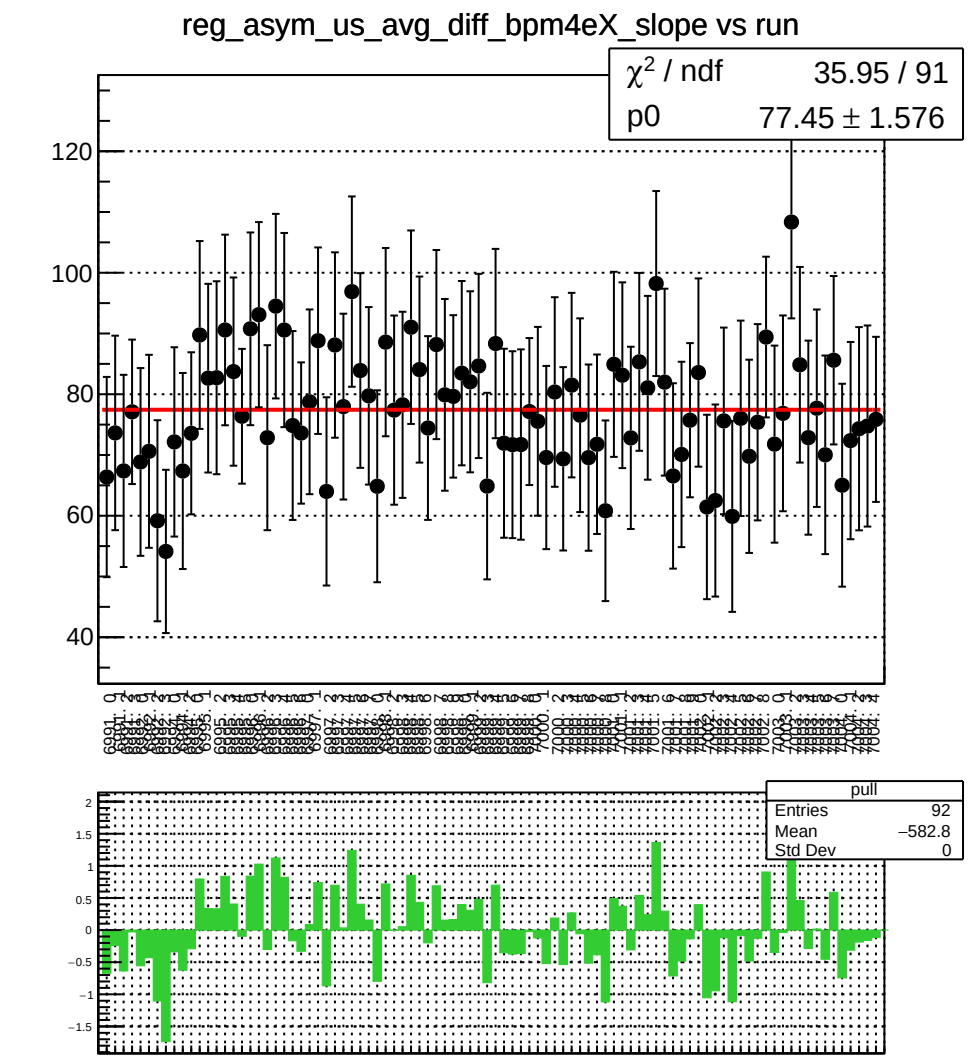

pull1D
Entries 92
Mean −0.007311
Std Dev 1.008

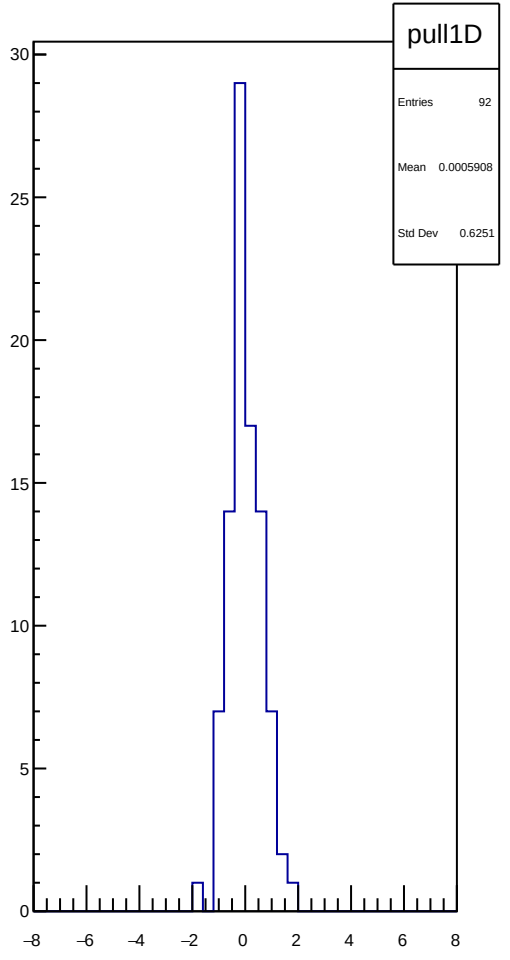

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 34.61 / 91
p0 −82.66 ± 1.71
pull
Entries 92
Mean 893.4
Std Dev 0

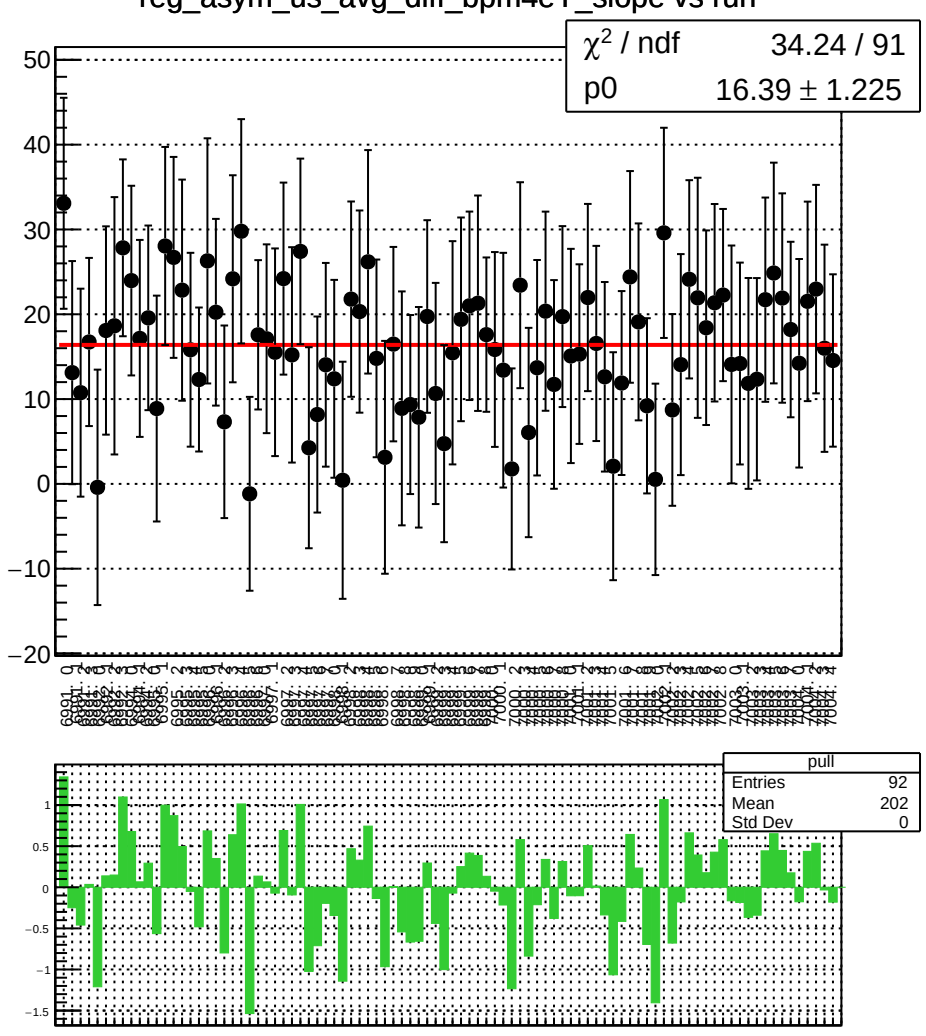

pull1D
Entries 92
Mean 0.0007398
Std Dev 0.6133

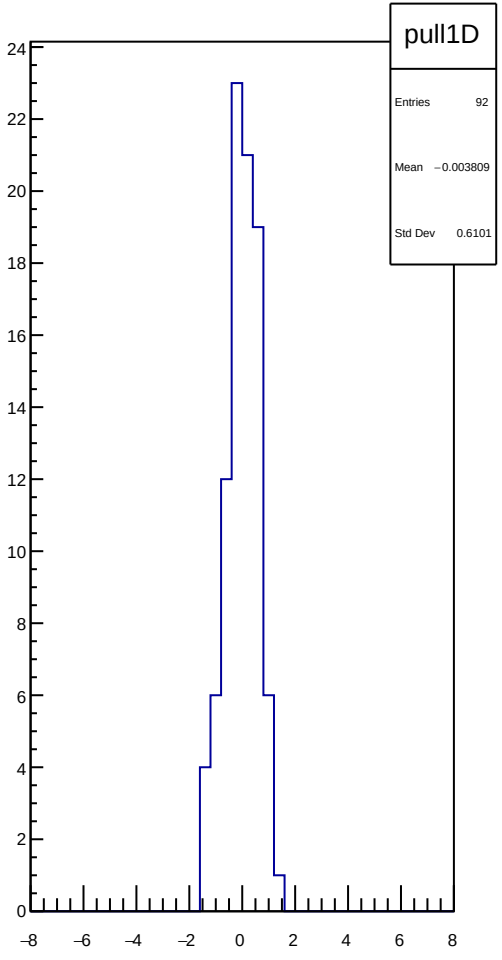

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.79 / 91
p0 1.312 ± 1.165
pull
Entries 92
Mean 160.1
Std Dev 0

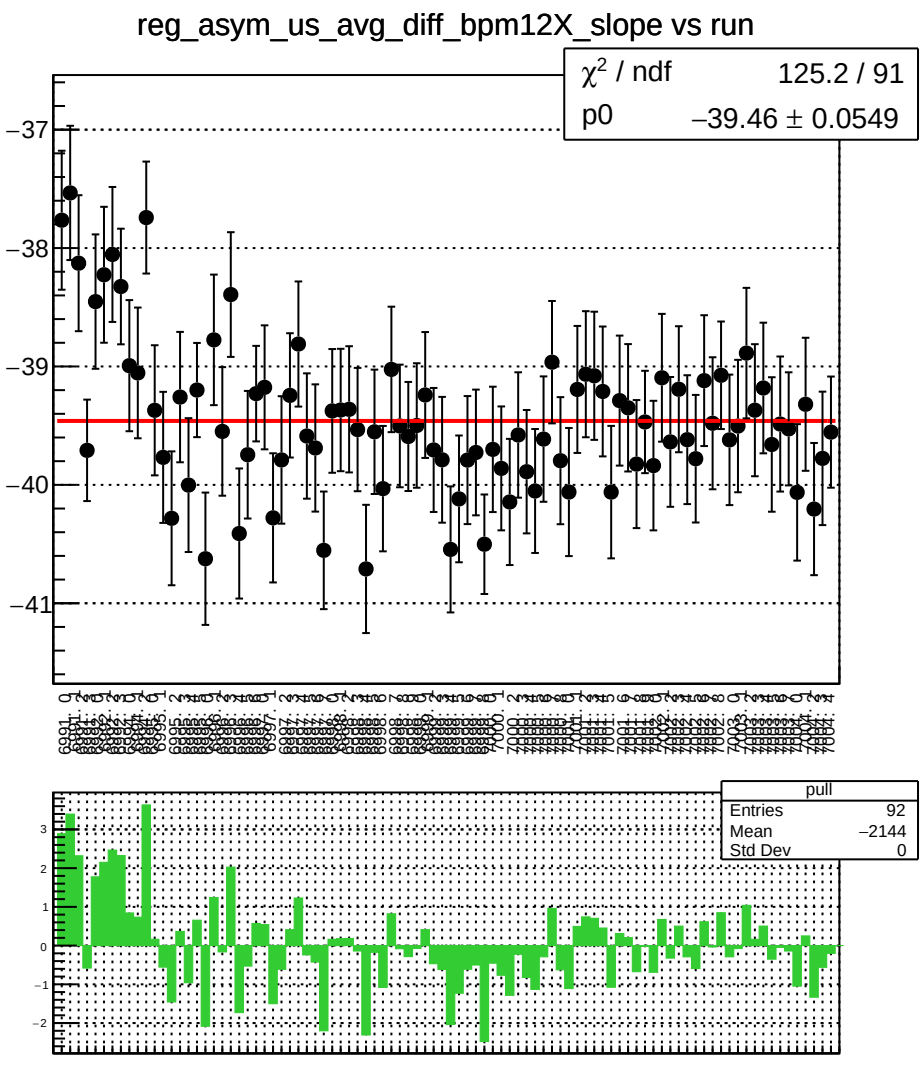

pull1D
Entries 92
Mean 0.002479
Std Dev 0.6237

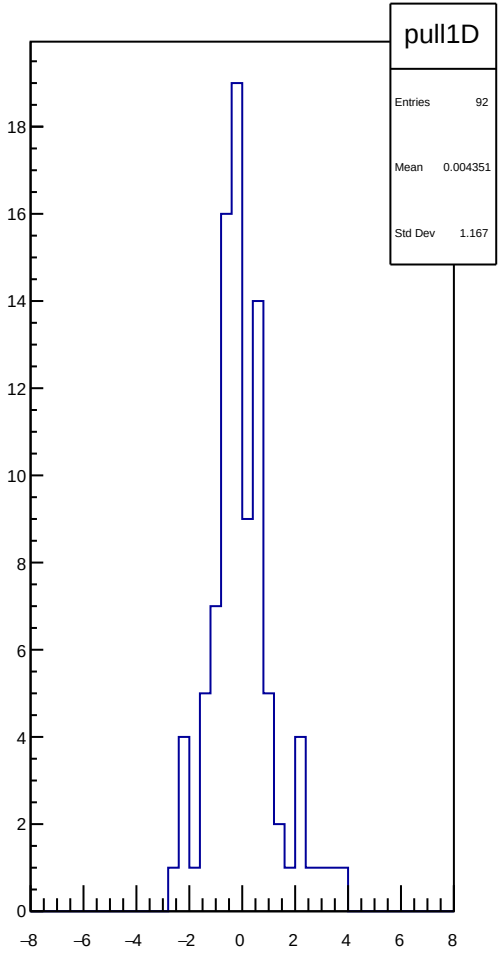

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 35.95 / 91
p0 77.45 ± 1.576
120
100
80
60
40
pull
Entries 92
Mean −582.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

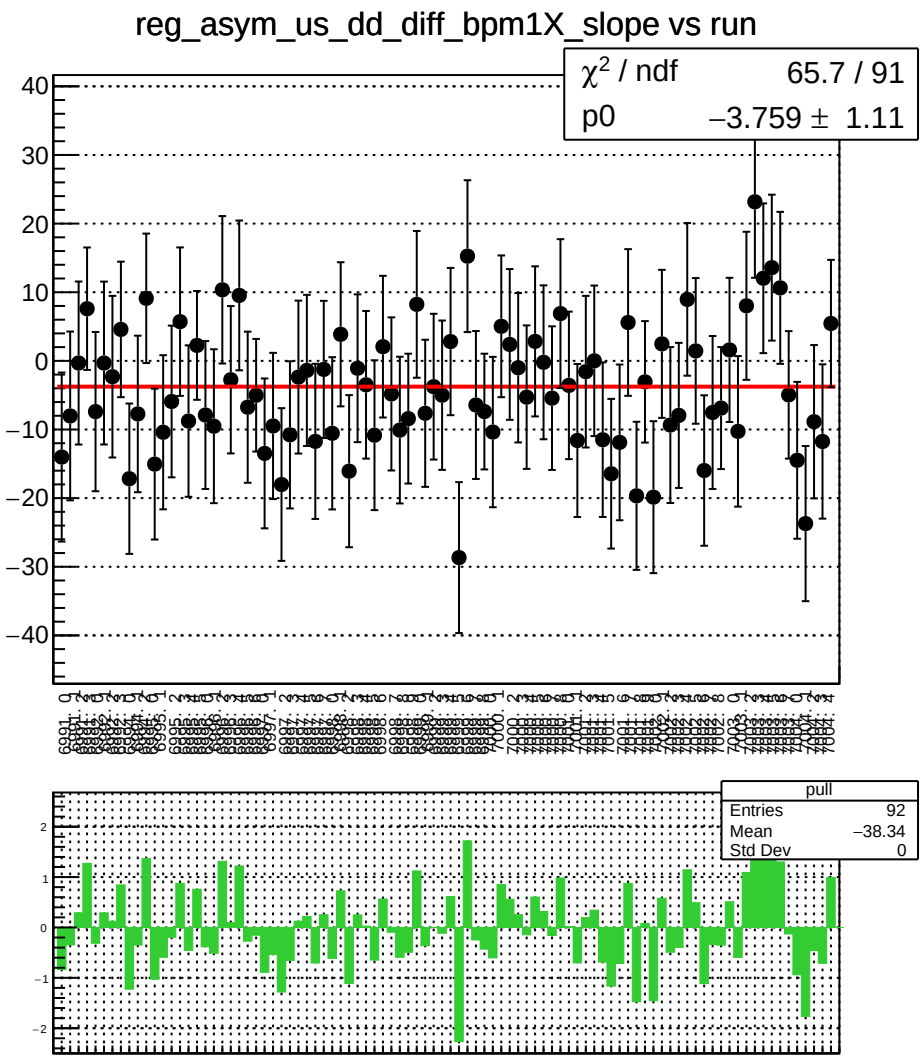

pull1D
Entries 92
Mean 0.0005908
Std Dev 0.6251
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

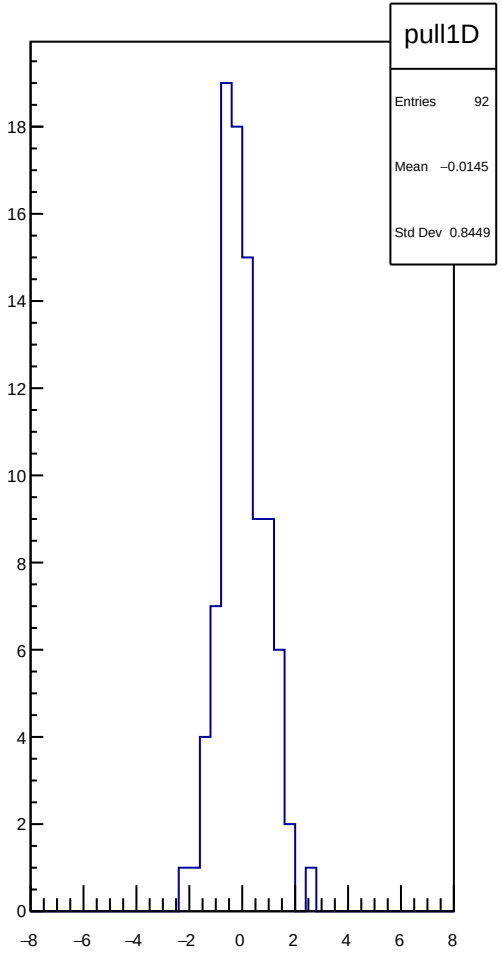

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.24 / 91
p0 16.39 ± 1.225
pull
Entries 92
Mean 202
Std Dev 0

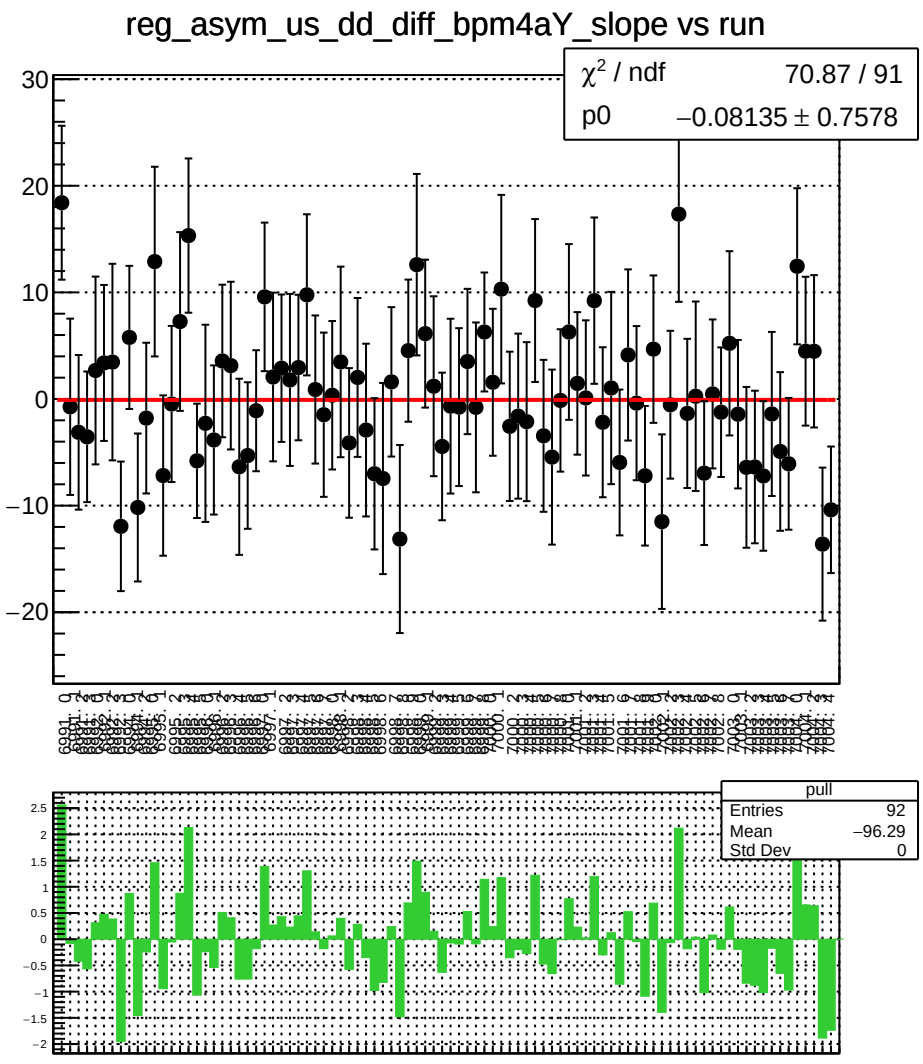

pull1D
Entries 92
Mean −0.003809
Std Dev 0.6101

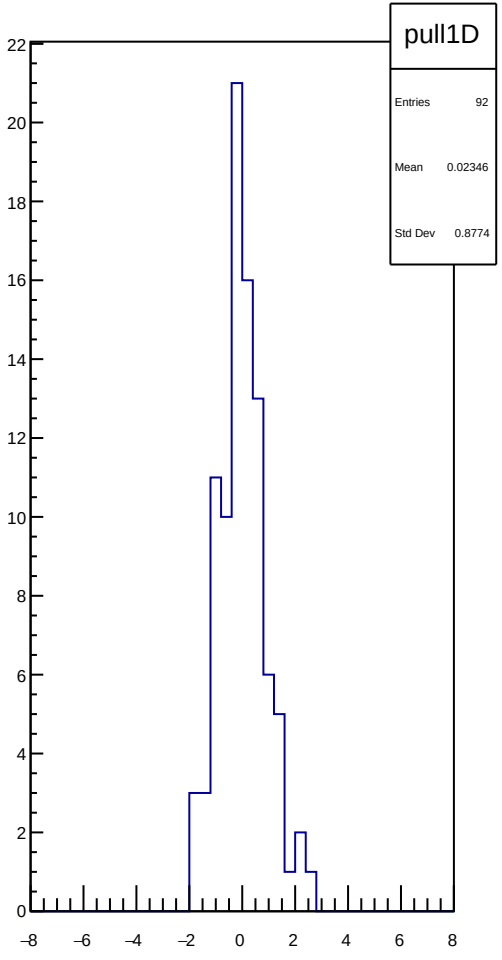

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 125.2 / 91
p0 −39.46 ± 0.0549
−37
−38
−39
−40
−41
pull
Entries 92
Mean −2144
Std Dev 0
3
2
1
0
−1
−2

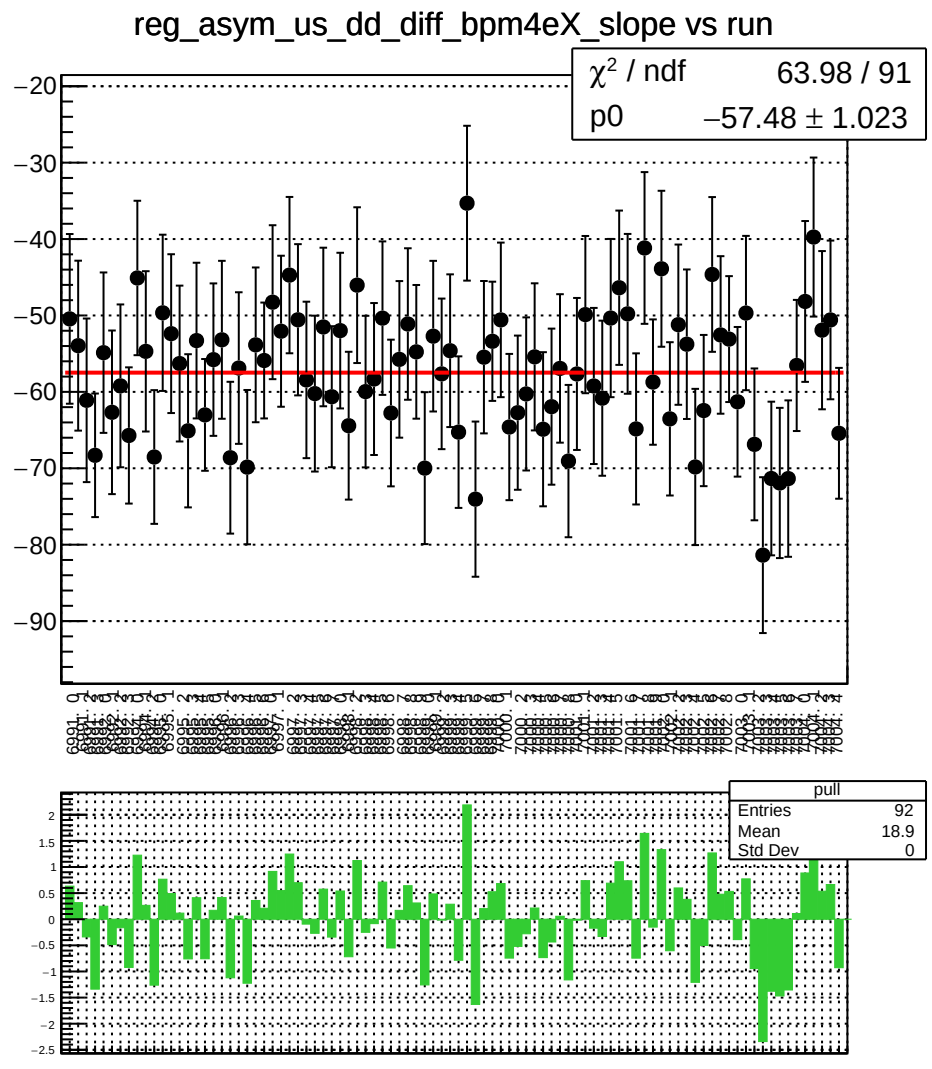

pull1D
Entries 92
Mean 0.004351
Std Dev 1.167
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

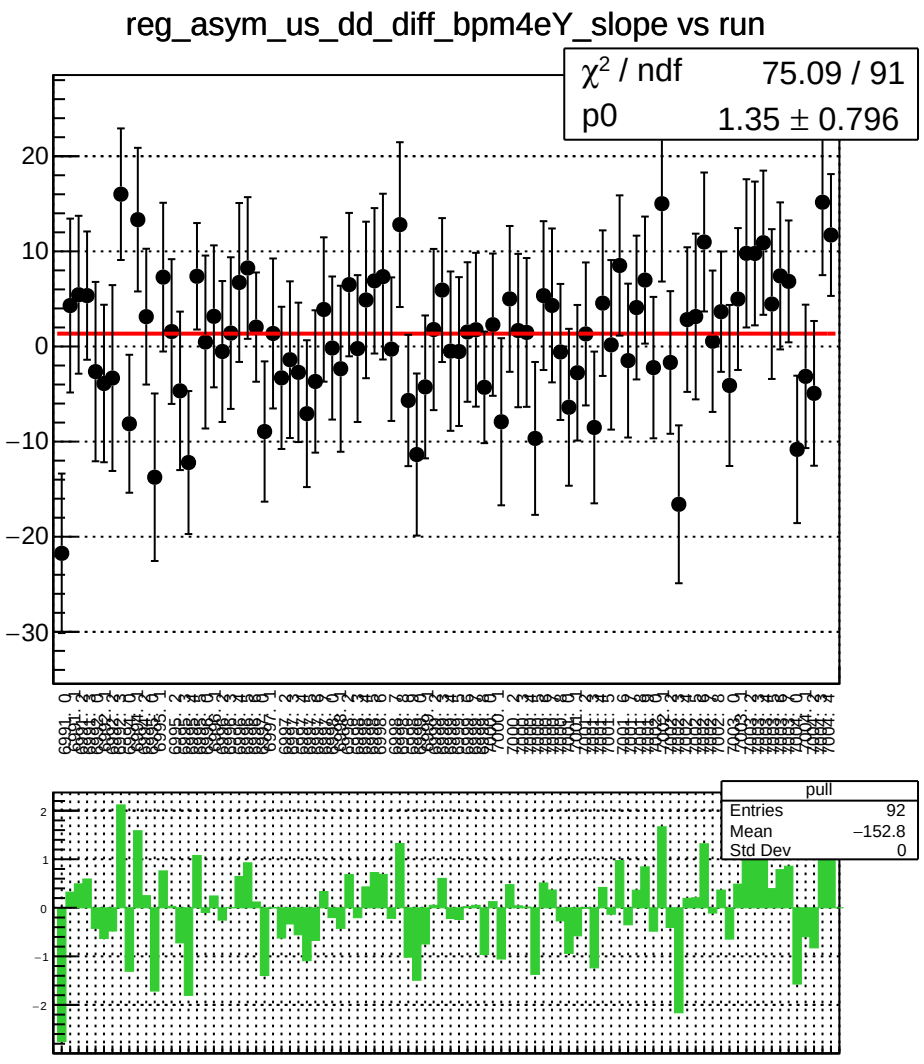

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 65.7 / 91
p0 −3.759 ± 1.11
pull
Entries 92
Mean −38.34
Std Dev 0

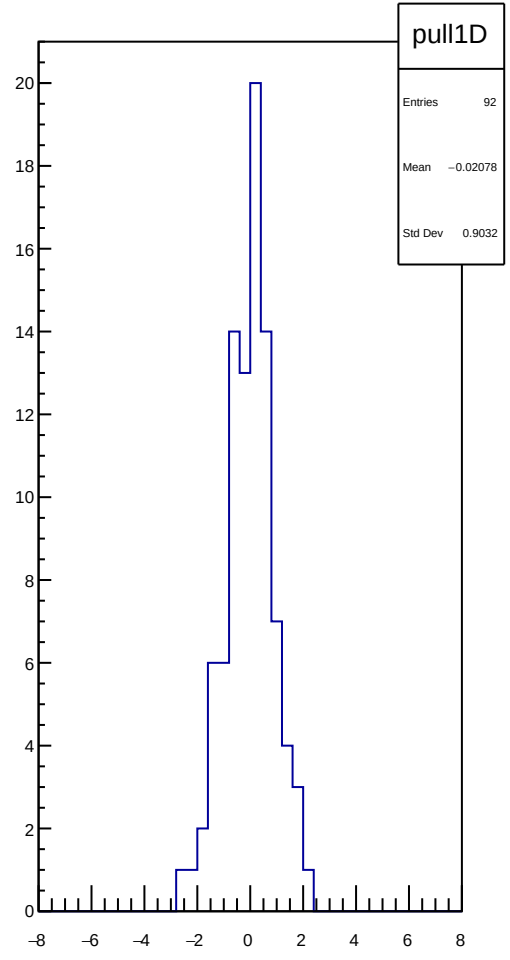

pull1D
Entries 92
Mean −0.0145
Std Dev 0.8449

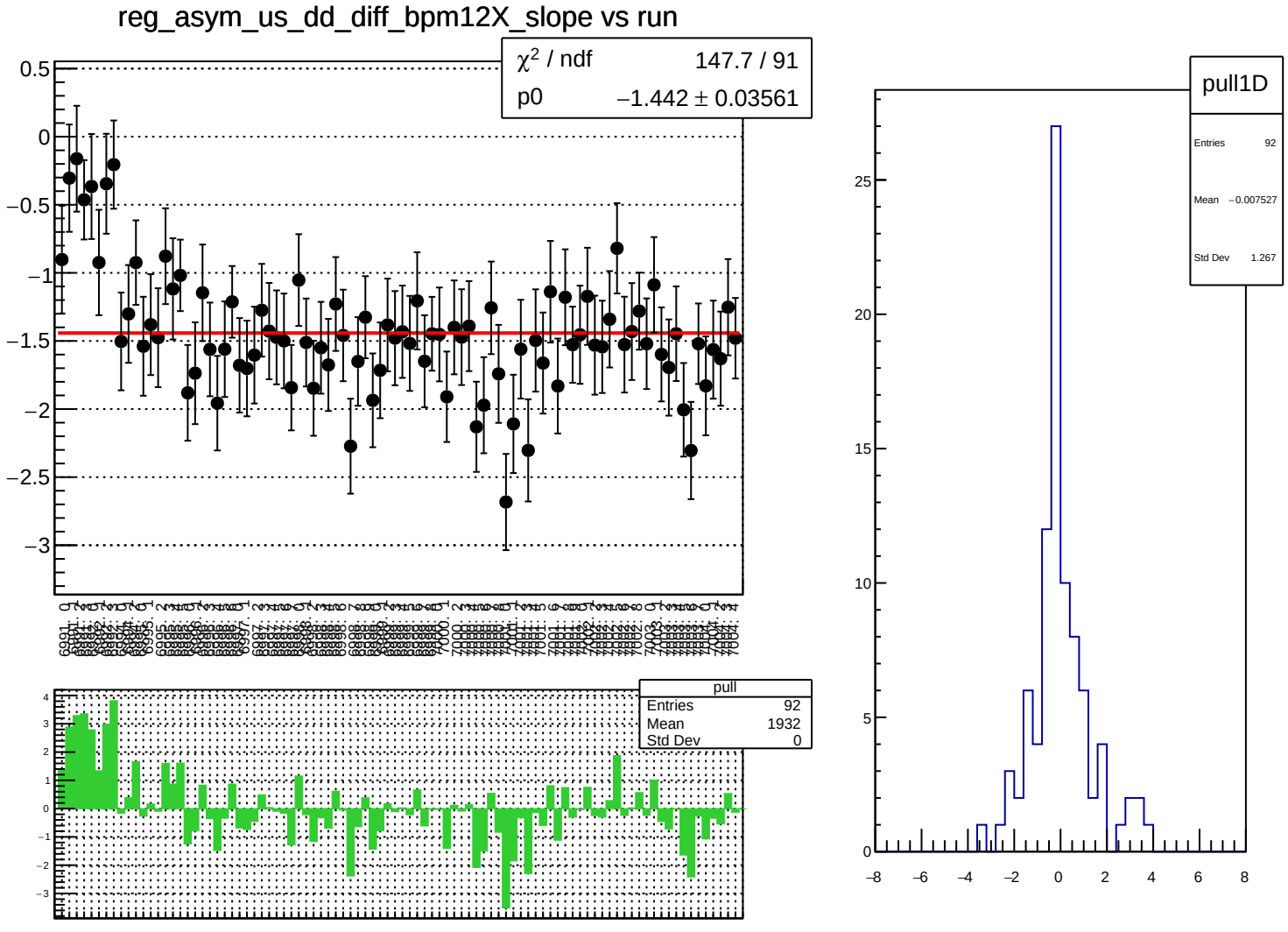

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.87 / 91
p0 −0.08135 ± 0.7578
pull
Entries 92
Mean −96.29
Std Dev 0

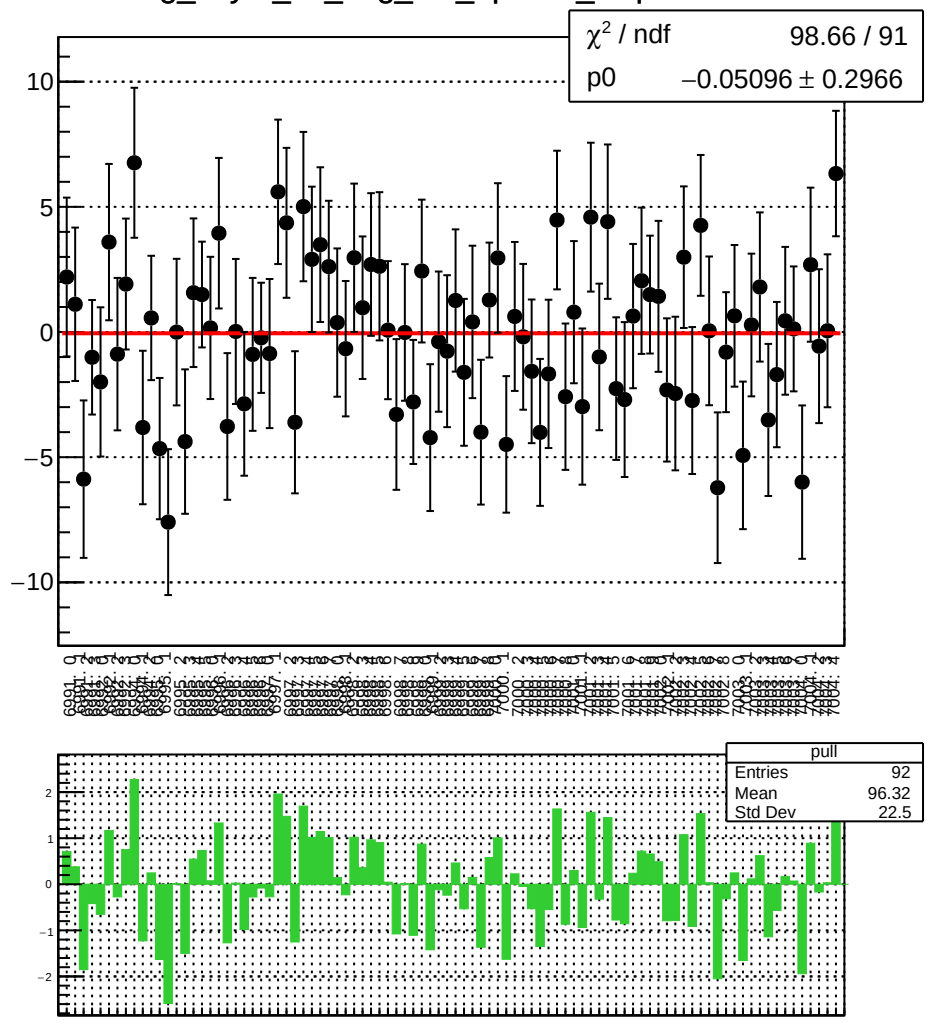

pull1D
Entries 92
Mean 0.02346
Std Dev 0.8774

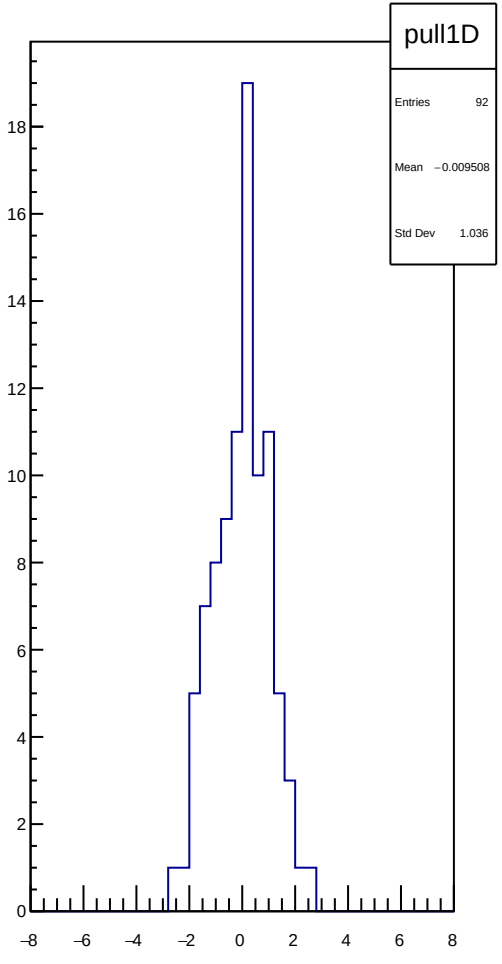

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.98 / 91
p0 −57.48 ± 1.023
pull
Entries 92
Mean 18.9
Std Dev 0
pull1D
Entries 92
Mean 0.0133
Std Dev 0.8338

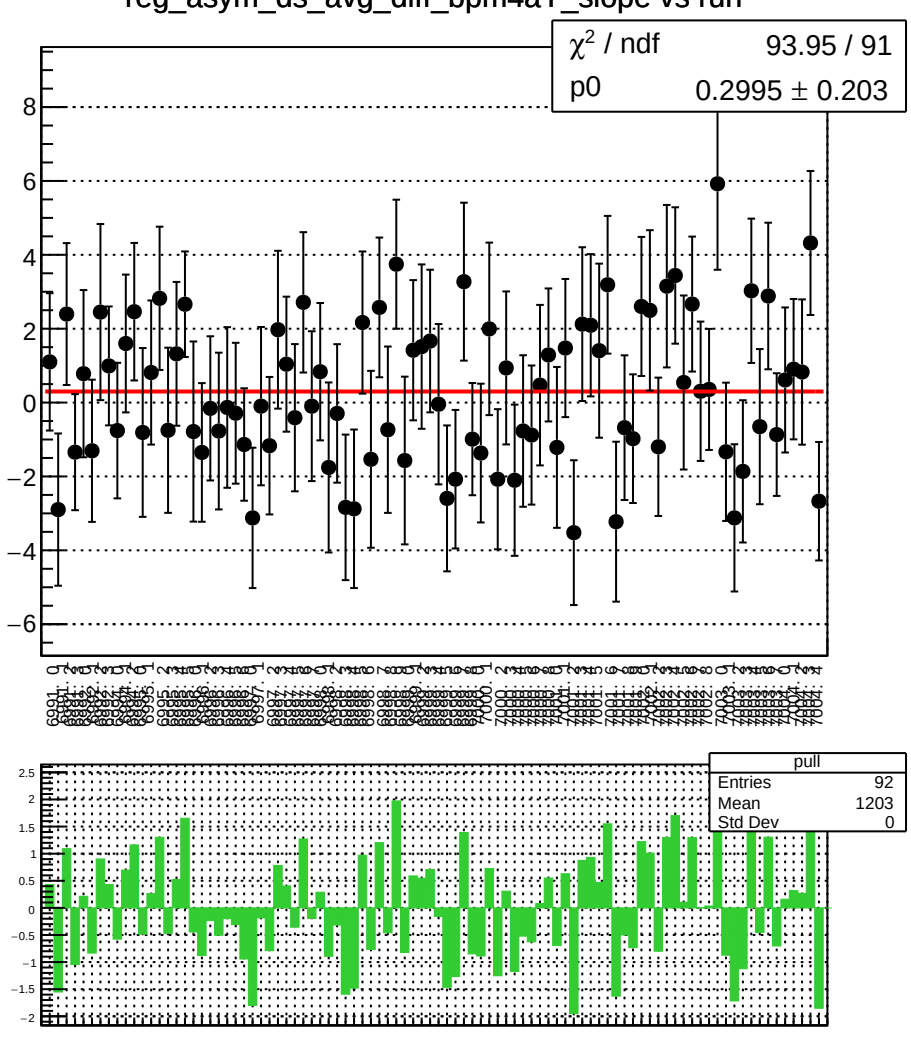

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.09 / 91
p0 1.35 ± 0.796
pull
Entries 92
Mean −152.8
Std Dev 0

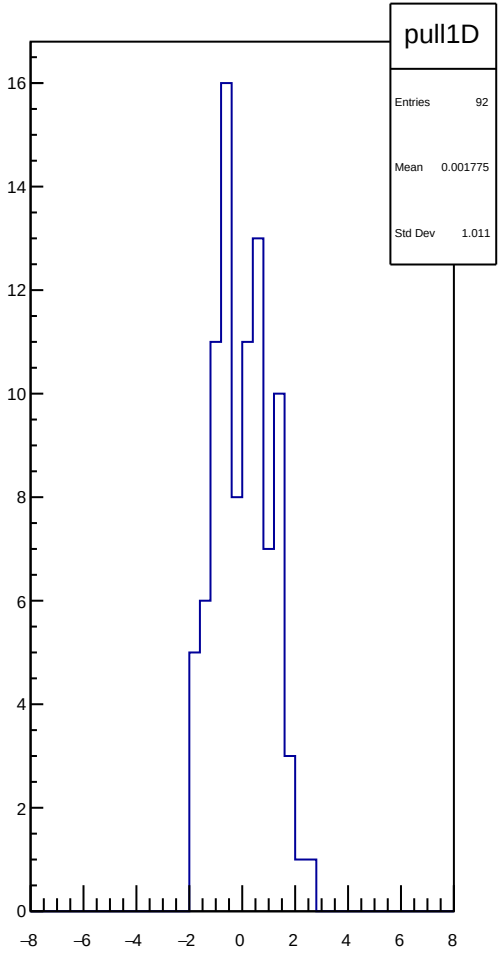

pull1D
Entries 92
Mean −0.02078
Std Dev 0.9032

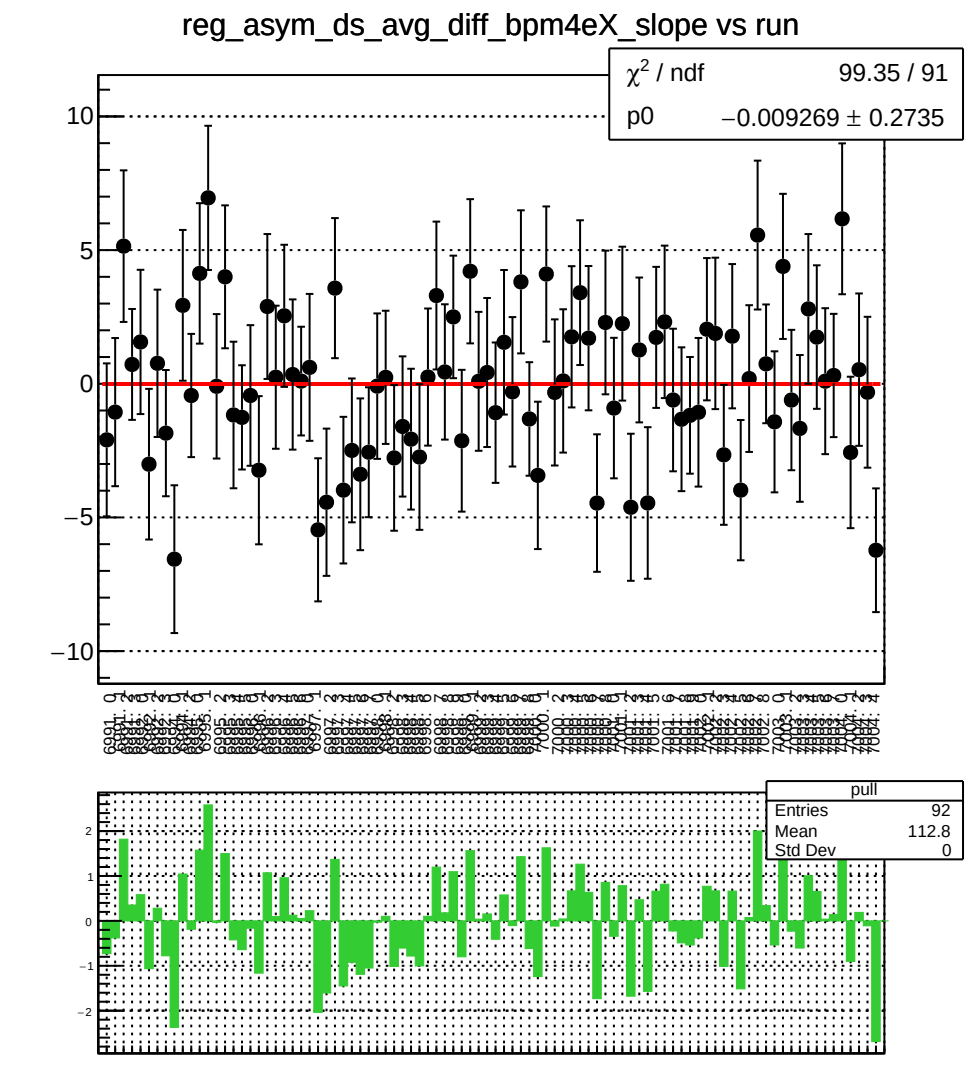

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 147.7 / 91
p0 −1.442 ± 0.03561
pull
Entries 92
Mean 1932
Std Dev 0
pull1D
Entries 92
Mean −0.007527
Std Dev 1.267

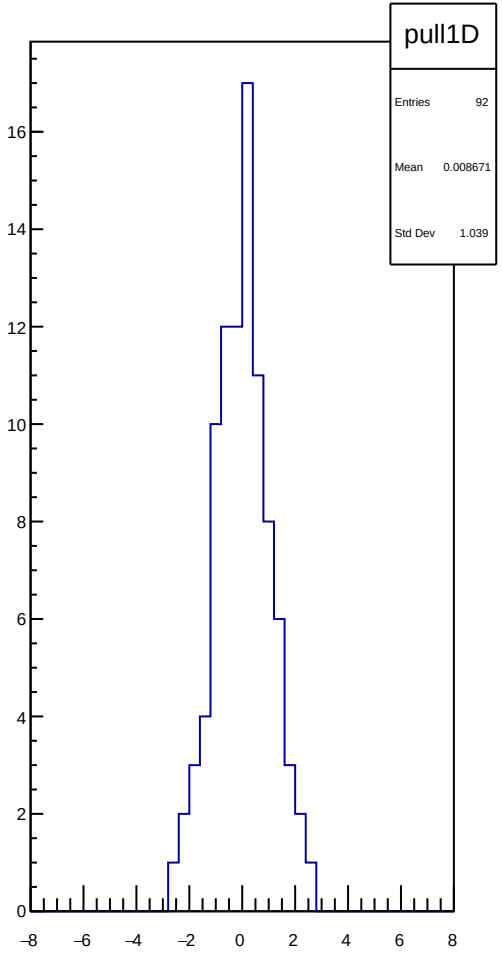

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 98.66 / 91
p0 −0.05096 ± 0.2966
pull
Entries 92
Mean 96.32
Std Dev 22.5

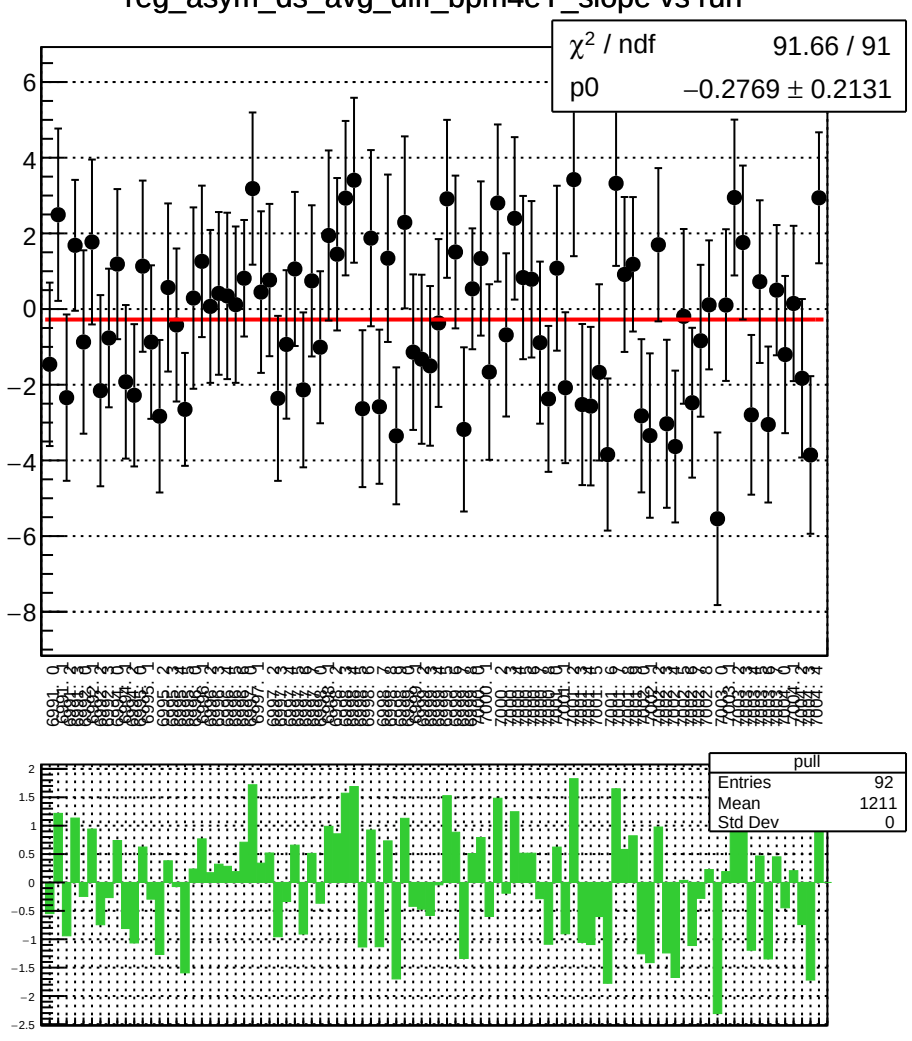

pull1D
Entries 92
Mean −0.009508
Std Dev 1.036

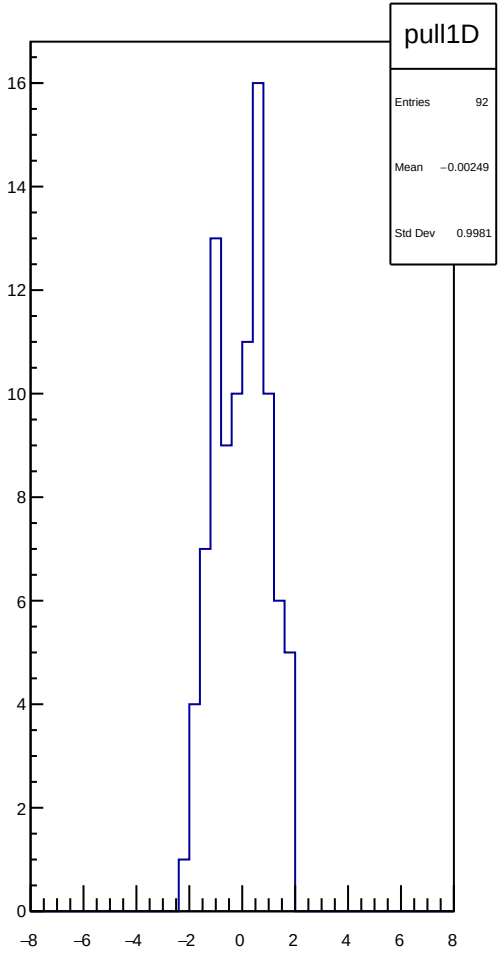

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 93.95 / 91
p0 0.2995 ± 0.203
pull
Entries 92
Mean 1203
Std Dev 0

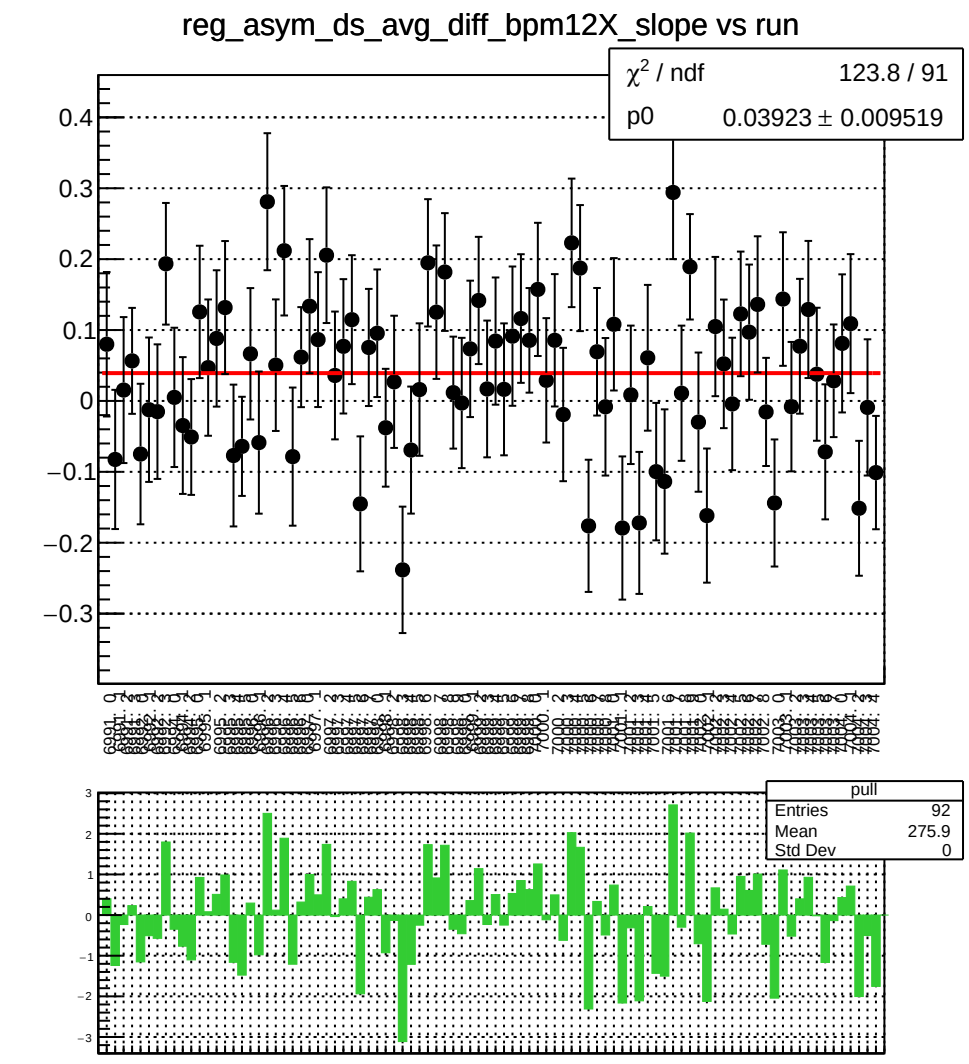

pull1D
Entries 92
Mean 0.001775
Std Dev 1.011

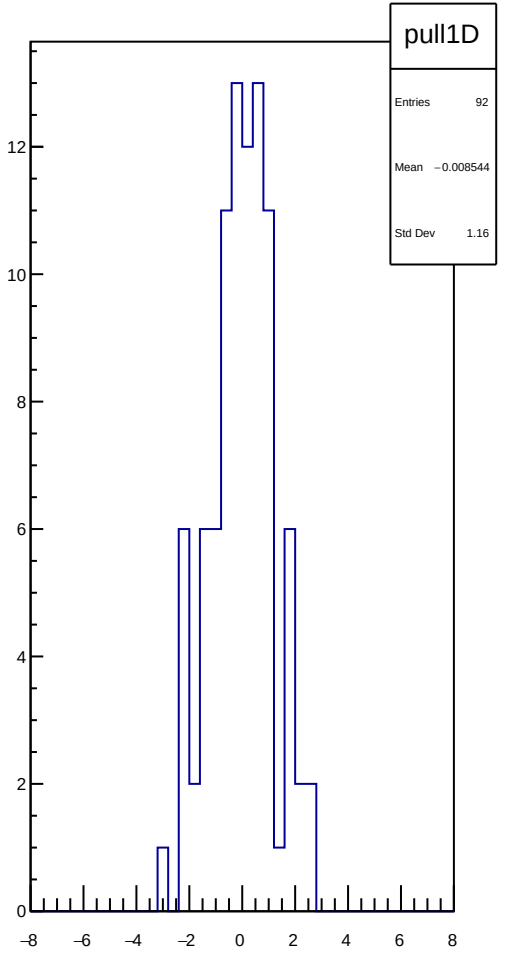

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 99.35 / 91
p0 −0.009269 ± 0.2735
pull
Entries 92
Mean 112.8
Std Dev 0

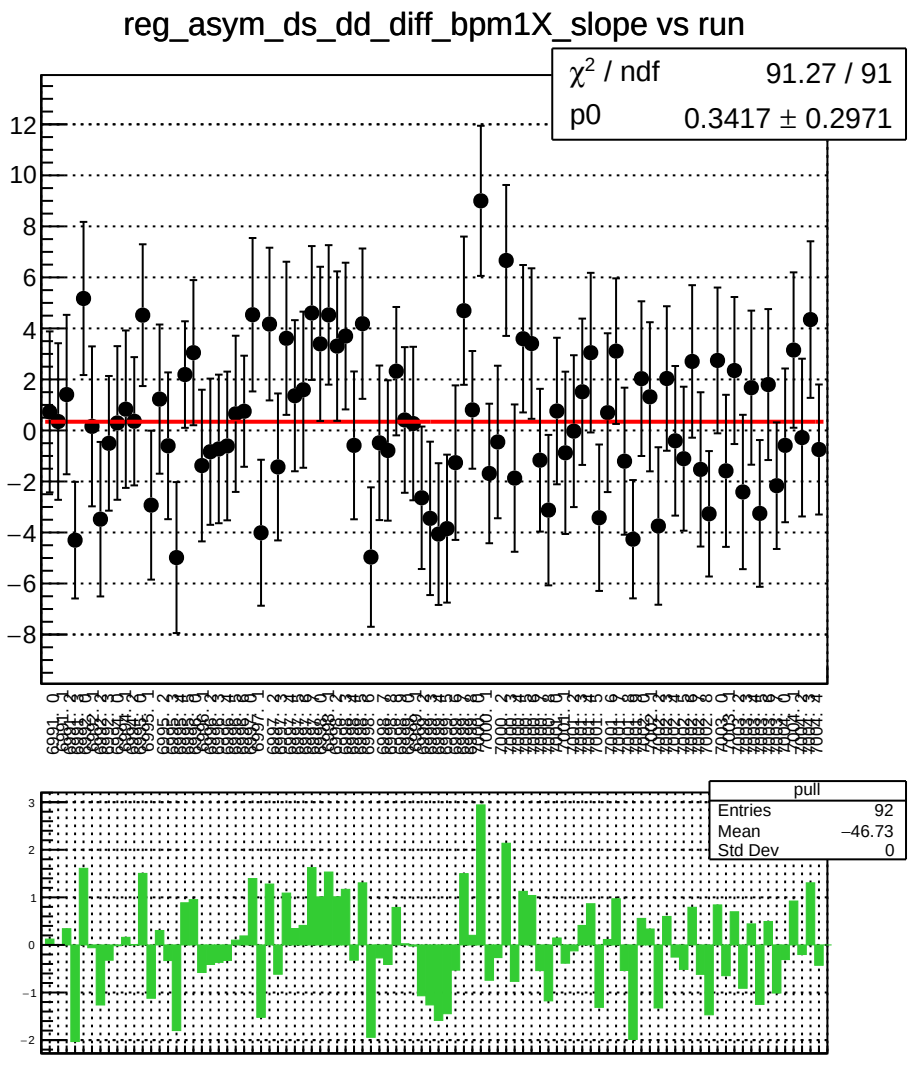

pull1D
Entries 92
Mean 0.008671
Std Dev 1.039

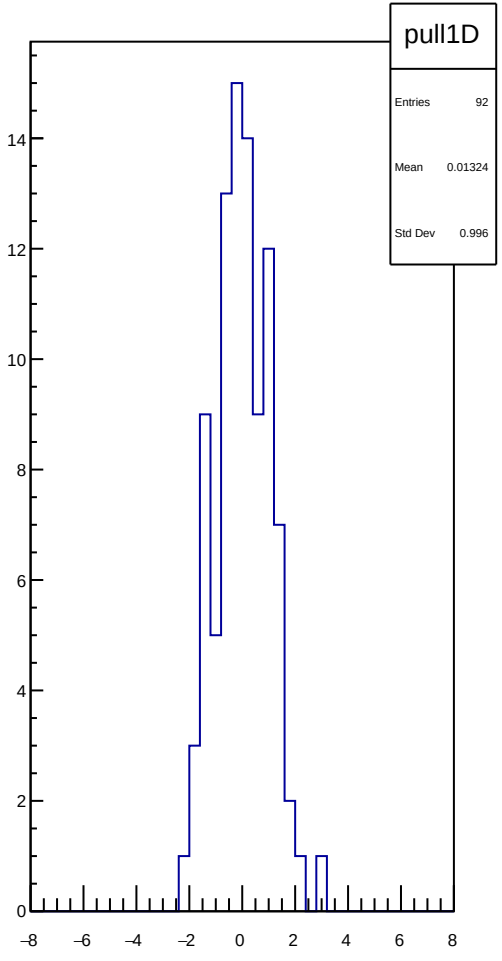

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.66 / 91
p0 −0.2769 ± 0.2131
pull
Entries 92
Mean 1211
Std Dev 0

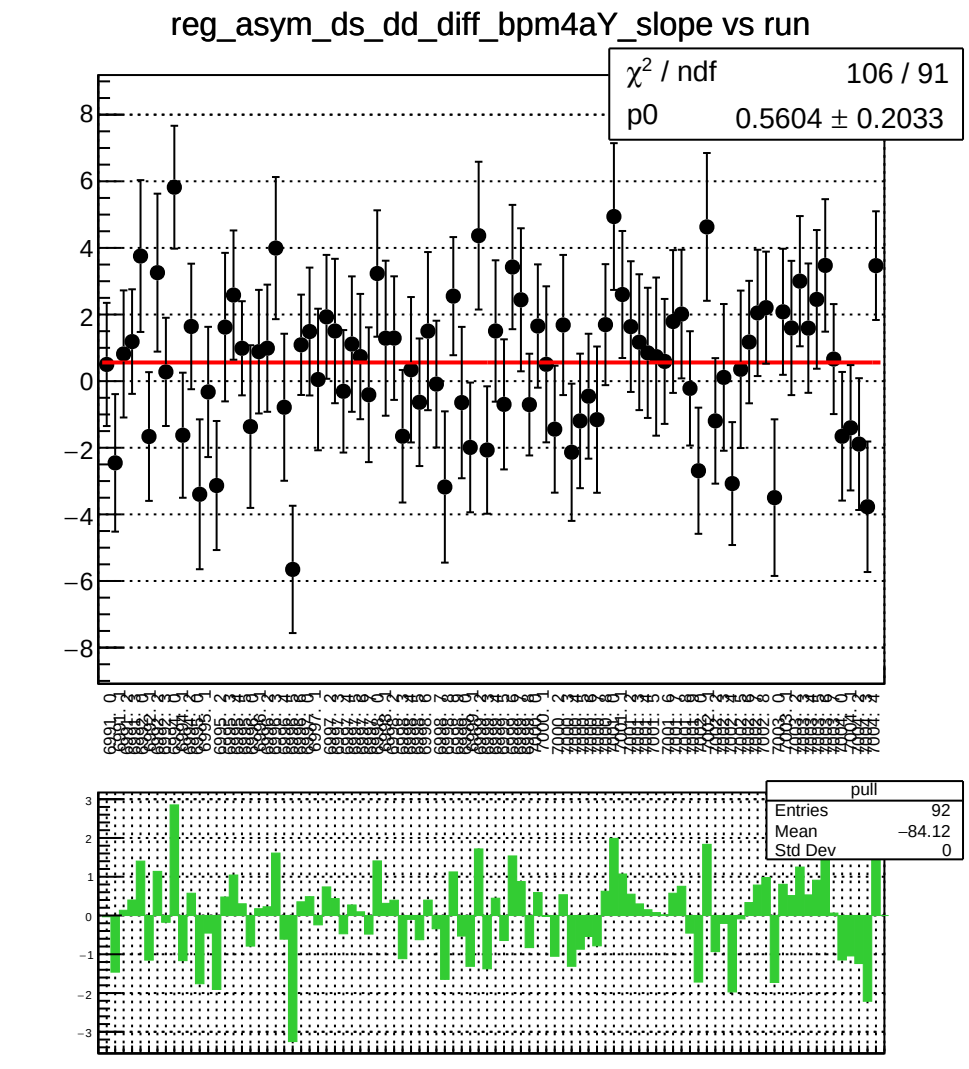

pull1D
Entries 92
Mean −0.00249
Std Dev 0.9981

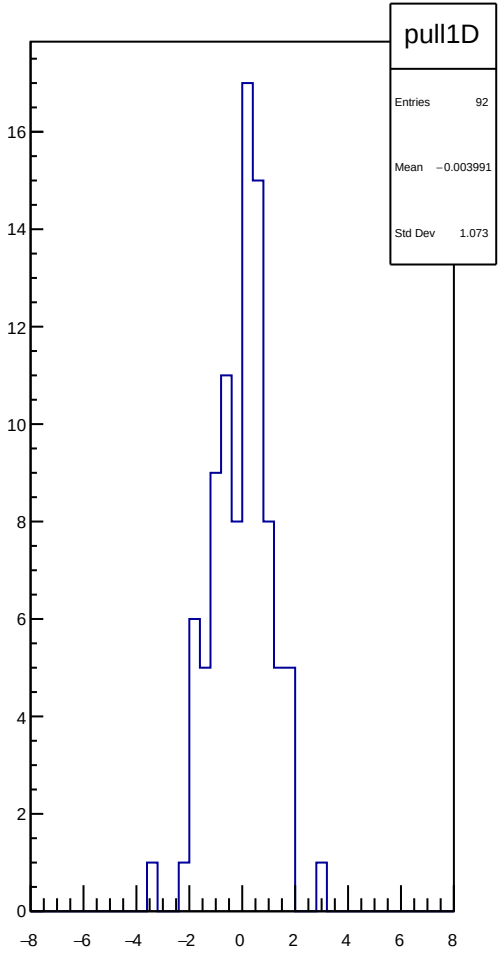

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 123.8 / 91
p0 0.03923 ± 0.009519
pull
Entries 92
Mean 275.9
Std Dev 0

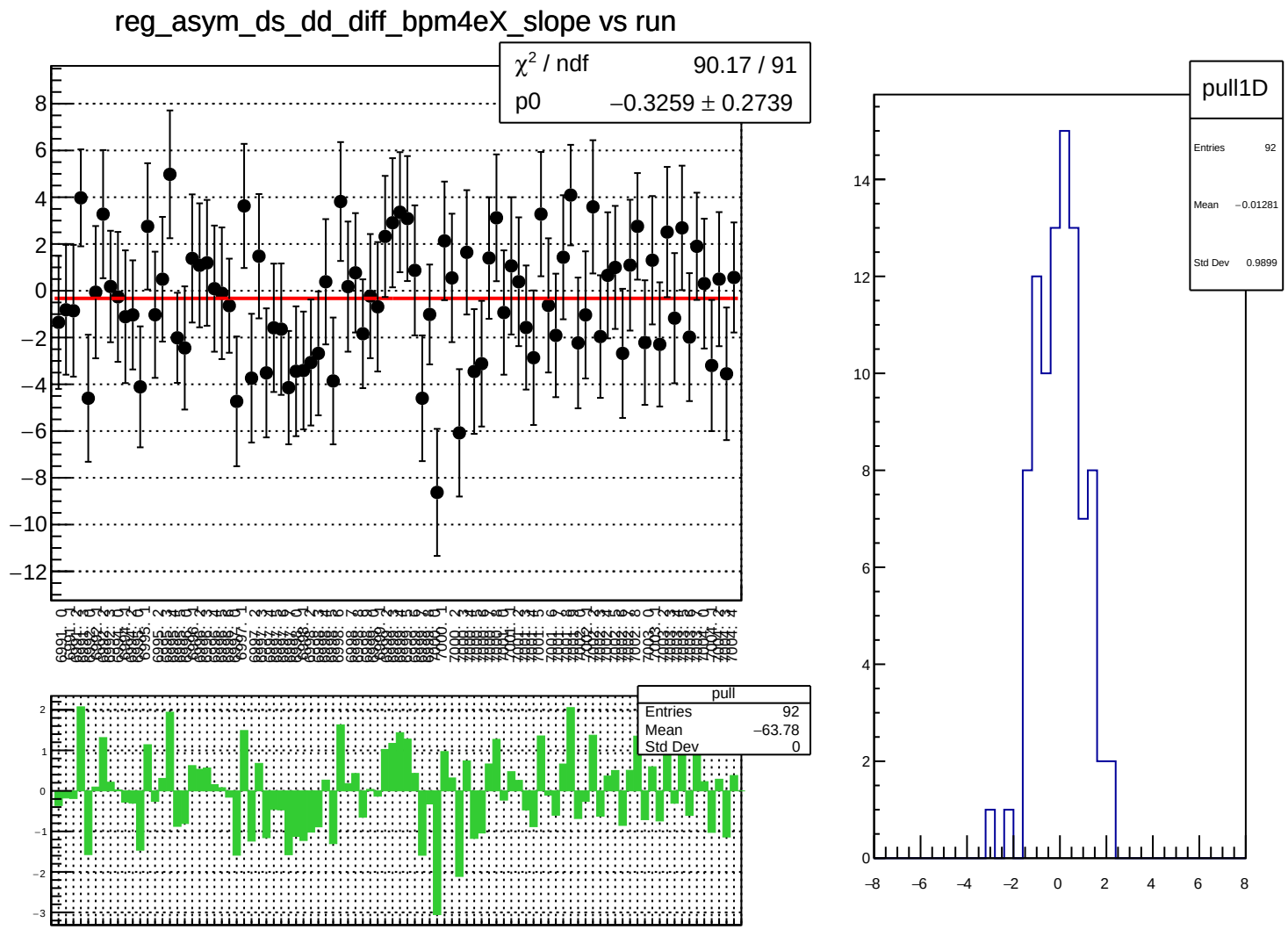

pull1D
Entries 92
Mean −0.008544
Std Dev 1.16

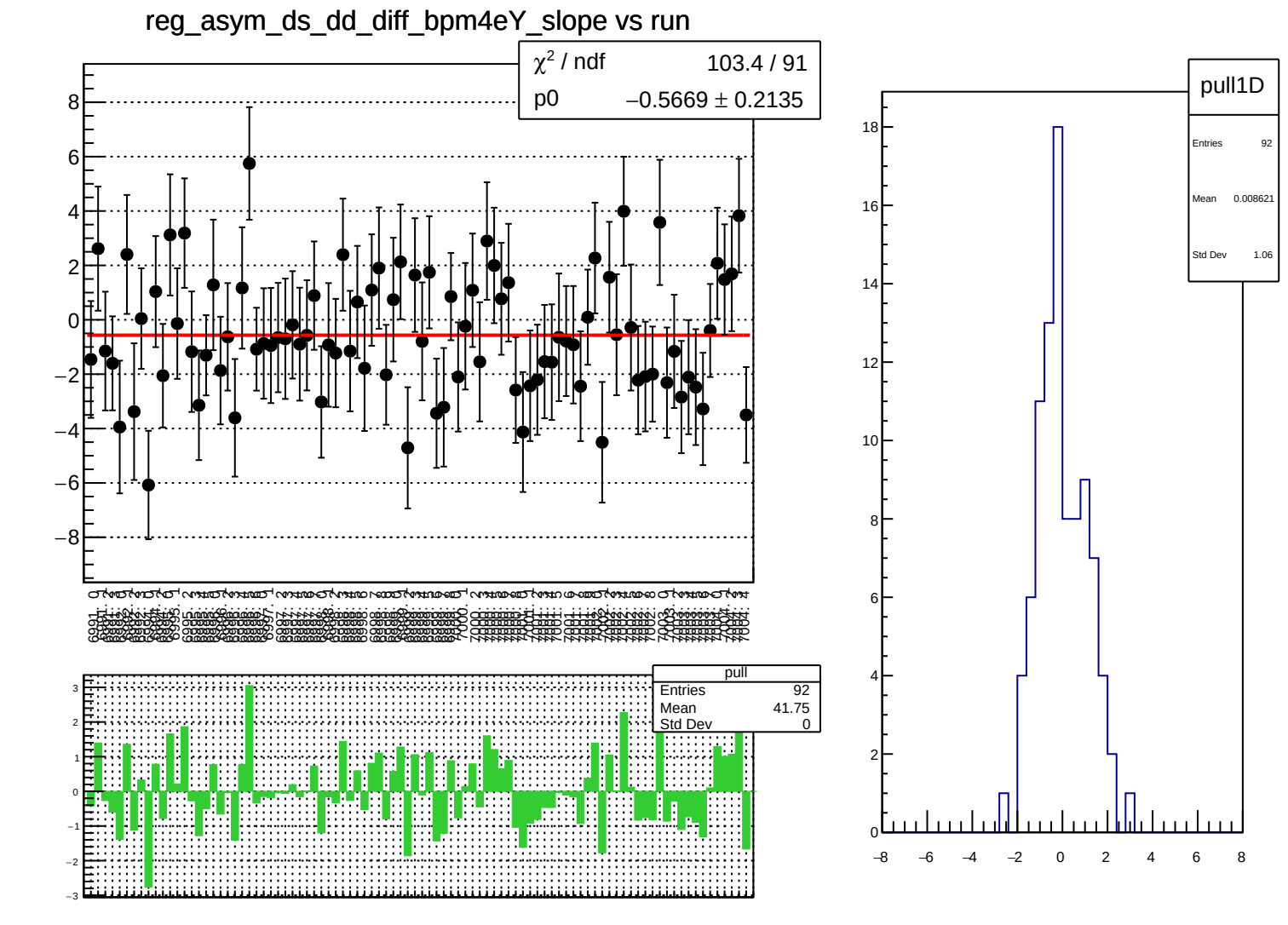

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 91.27 / 91
p0 0.3417 ± 0.2971
pull
Entries 92
Mean −46.73
Std Dev 0

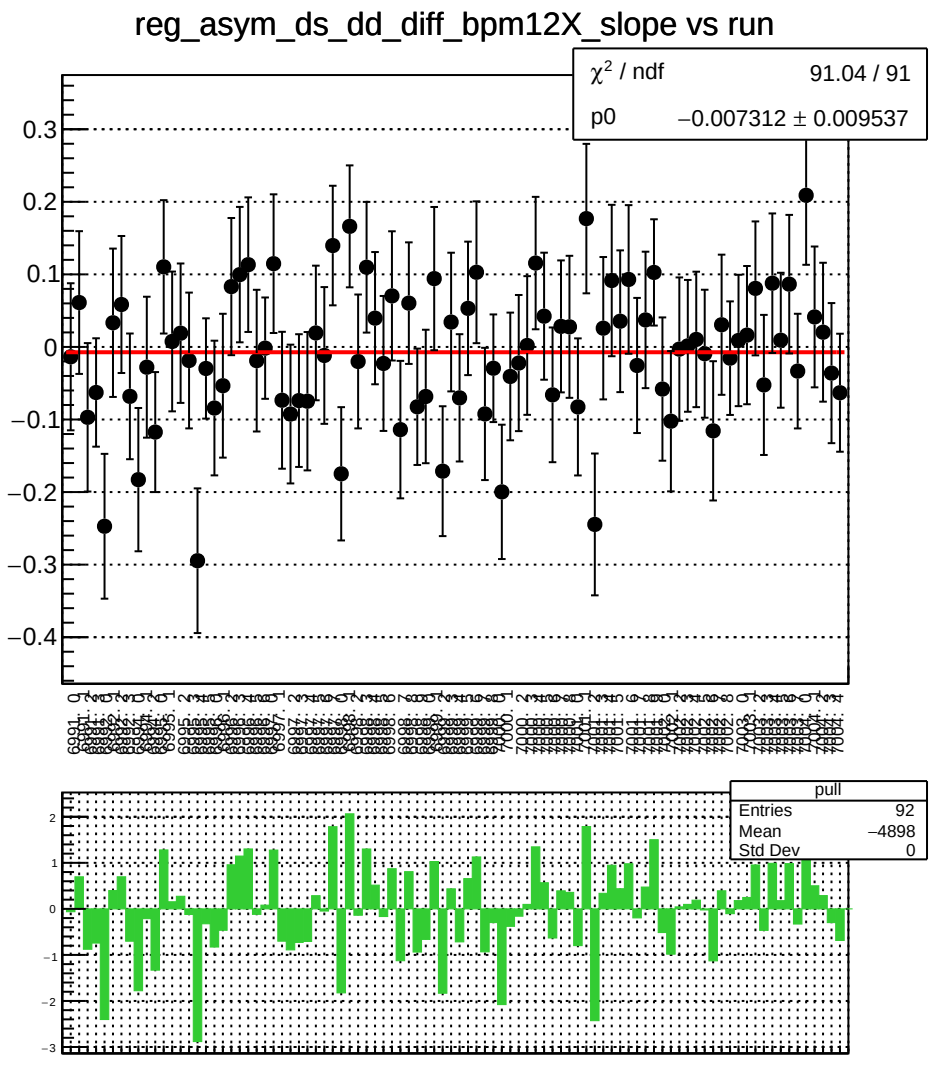

pull1D
Entries 92
Mean 0.01324
Std Dev 0.996

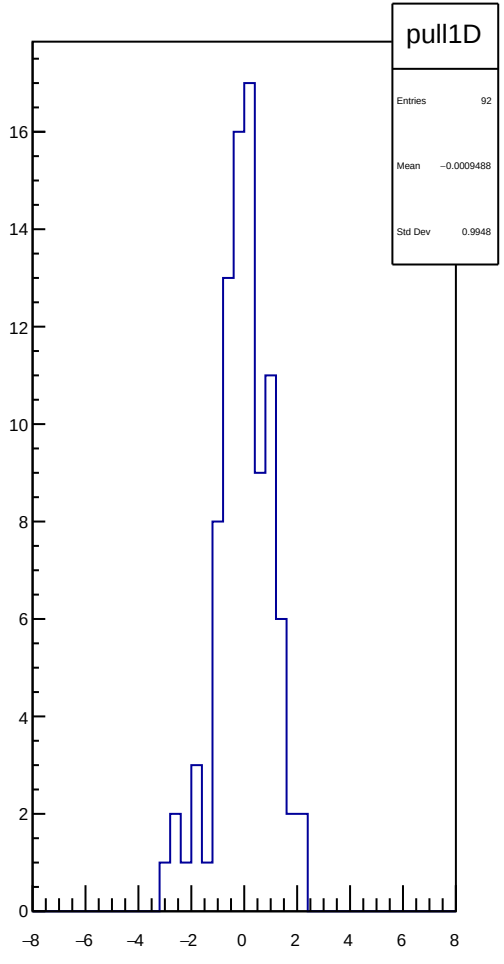

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 106 / 91
p0 0.5604 ± 0.2033
pull
Entries 92
Mean −84.12
Std Dev 0

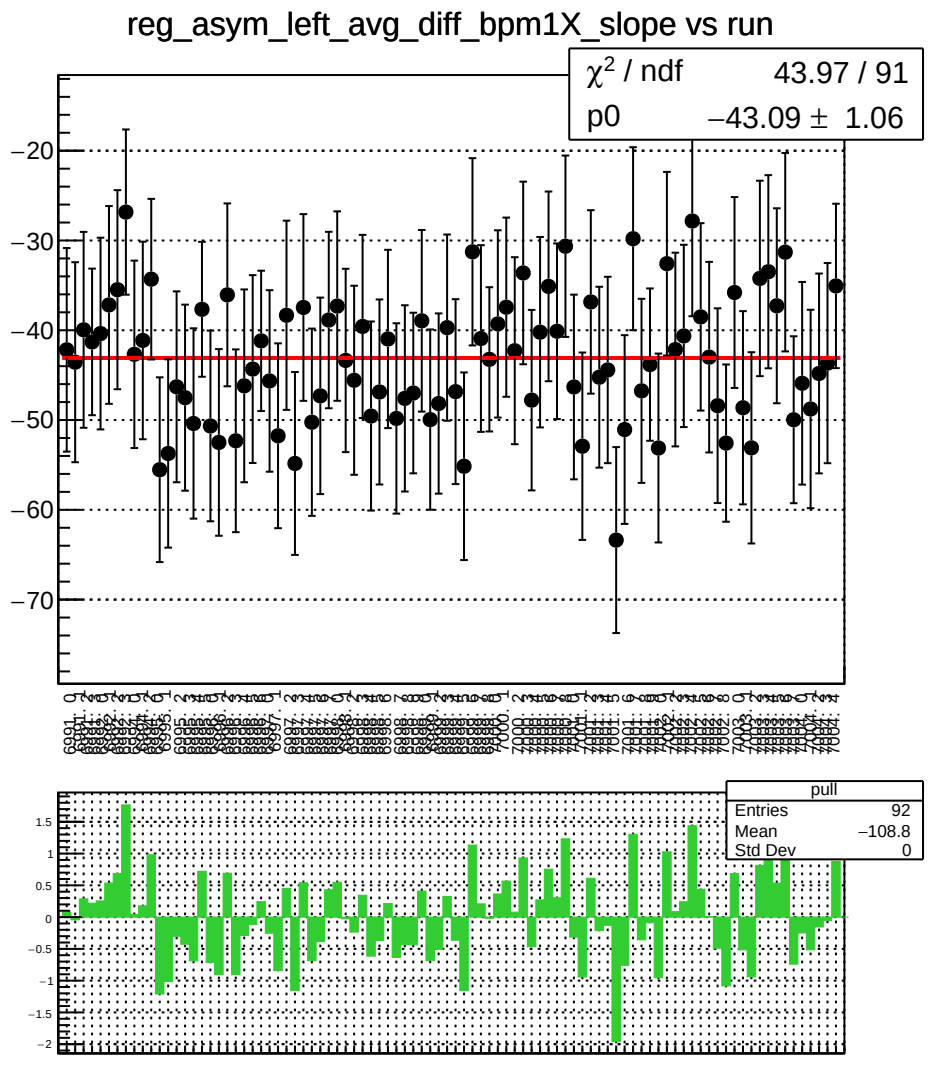

pull1D
Entries 92
Mean −0.003991
Std Dev 1.073

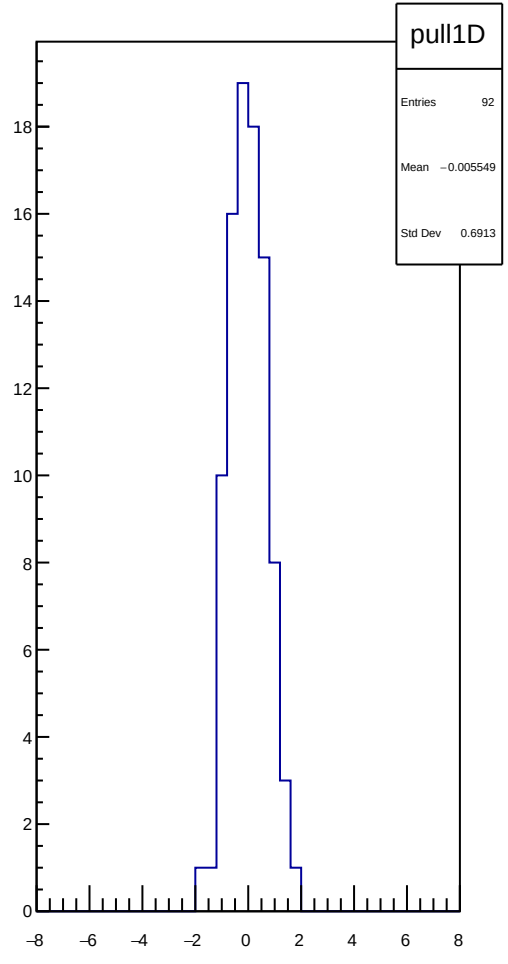

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.17 / 91
p0 −0.3259 ± 0.2739
pull
Entries 92
Mean −63.78
Std Dev 0
pull1D
Entries 92
Mean −0.01281
Std Dev 0.9899

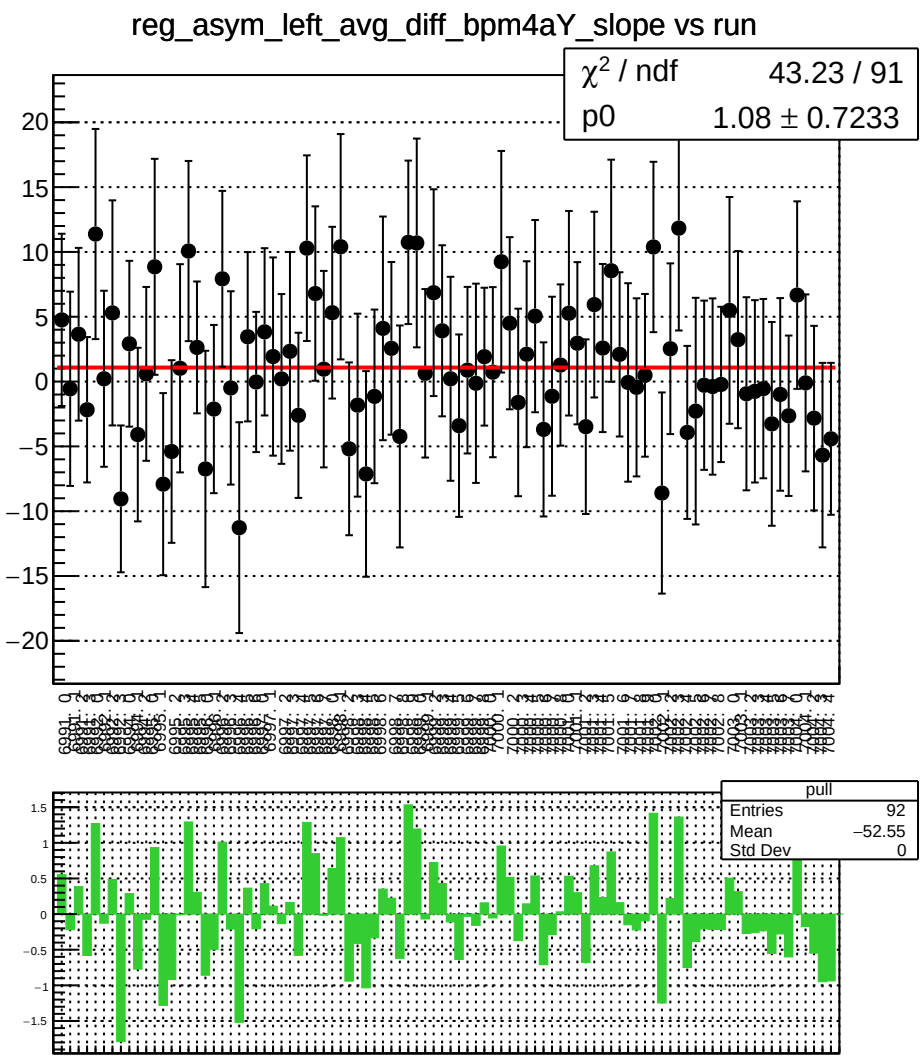

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 103.4 / 91
p0 −0.5669 ± 0.2135
pull
Entries 92
Mean 41.75
Std Dev 0
pull1D
Entries 92
Mean 0.008621
Std Dev 1.06

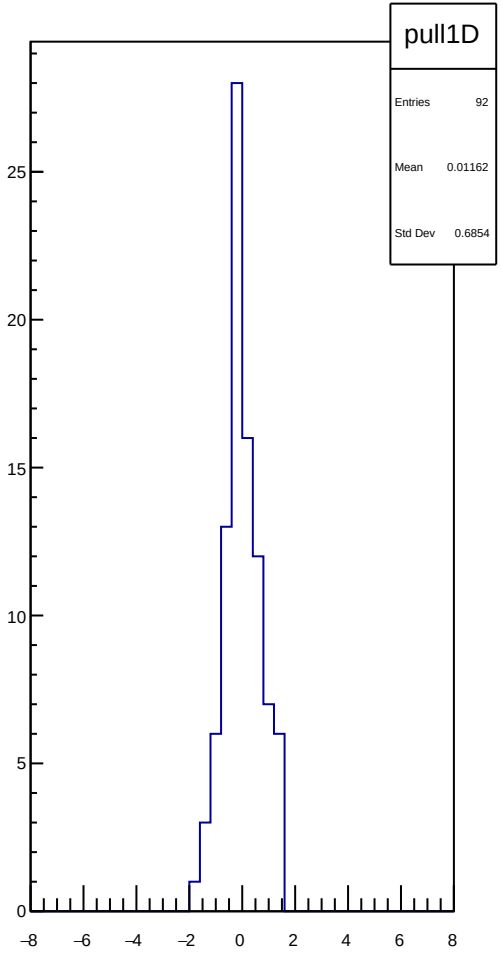

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 91.04 / 91
p0 −0.007312 ± 0.009537
pull
Entries 92
Mean −4898
Std Dev 0

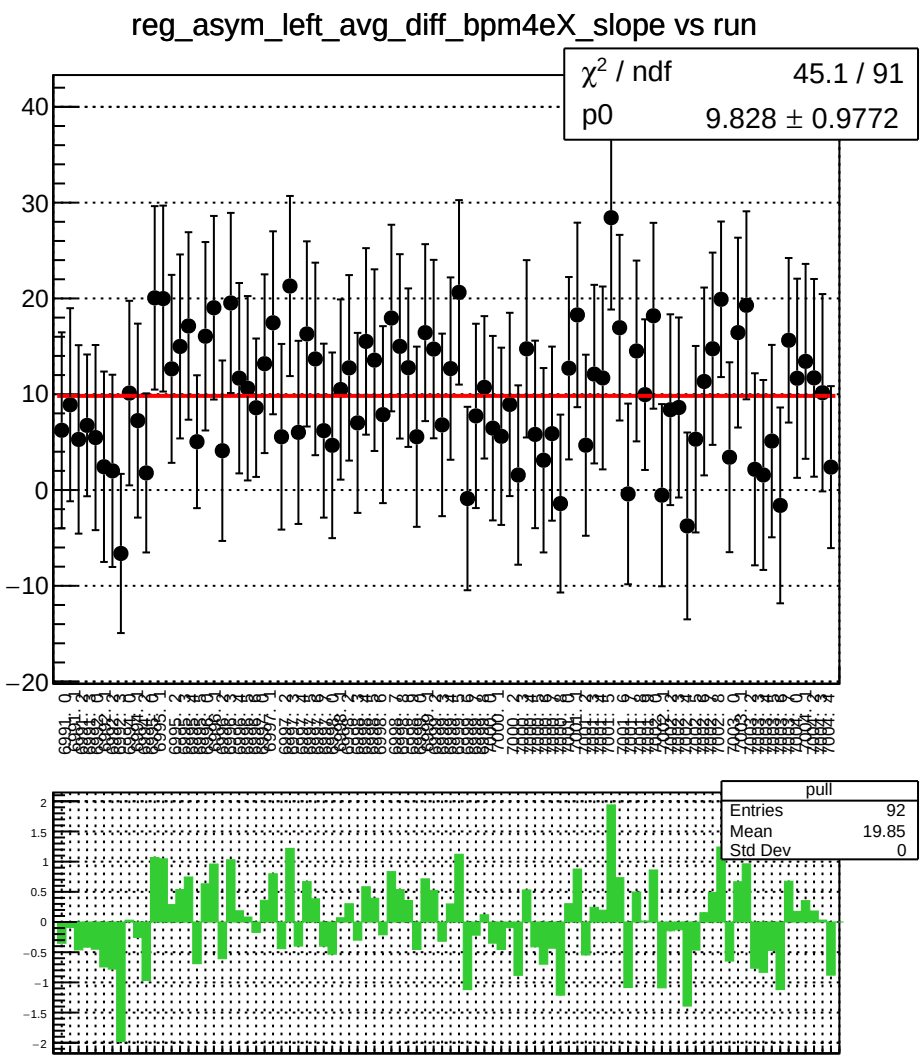

pull1D
Entries 92
Mean −0.0009488
Std Dev 0.9948

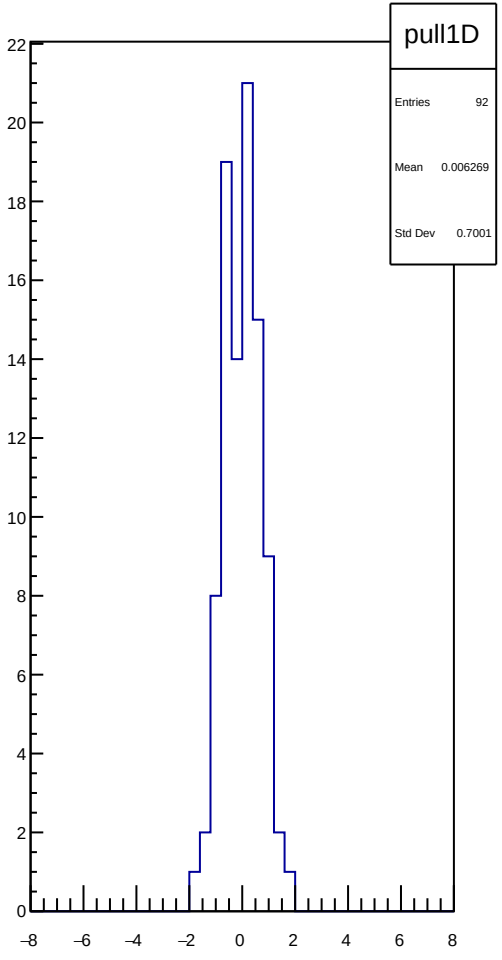

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 43.97 / 91
p0 −43.09 ± 1.06
pull
Entries 92
Mean −108.8
Std Dev 0

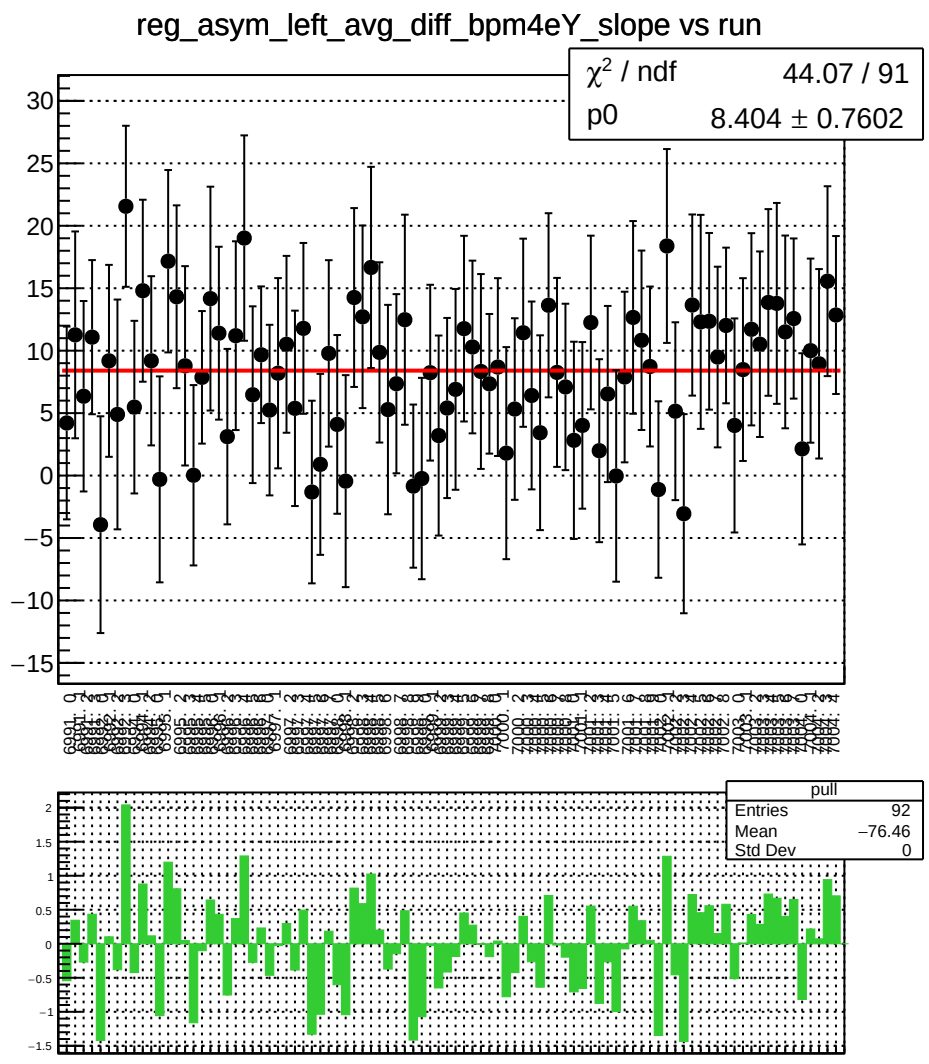

pull1D
Entries 92
Mean −0.005549
Std Dev 0.6913

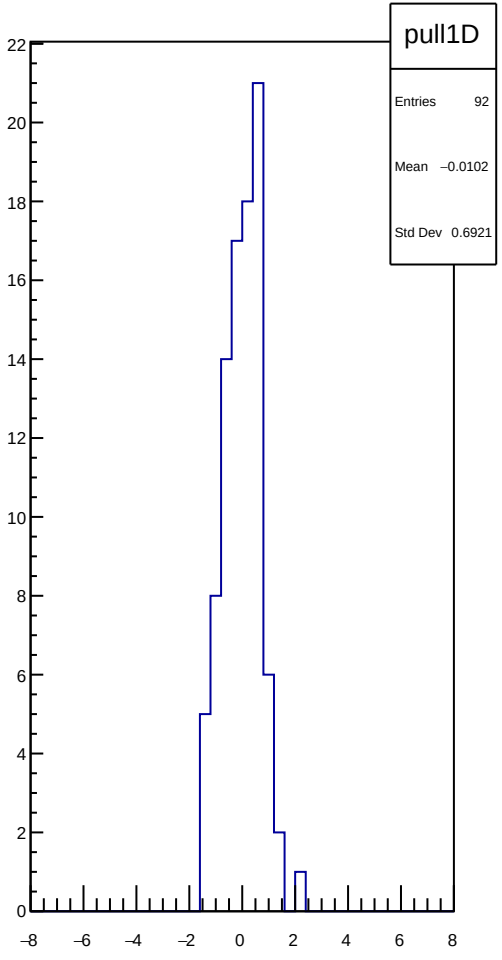

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.23 / 91
p0 1.08 ± 0.7233
pull
Entries 92
Mean −52.55
Std Dev 0

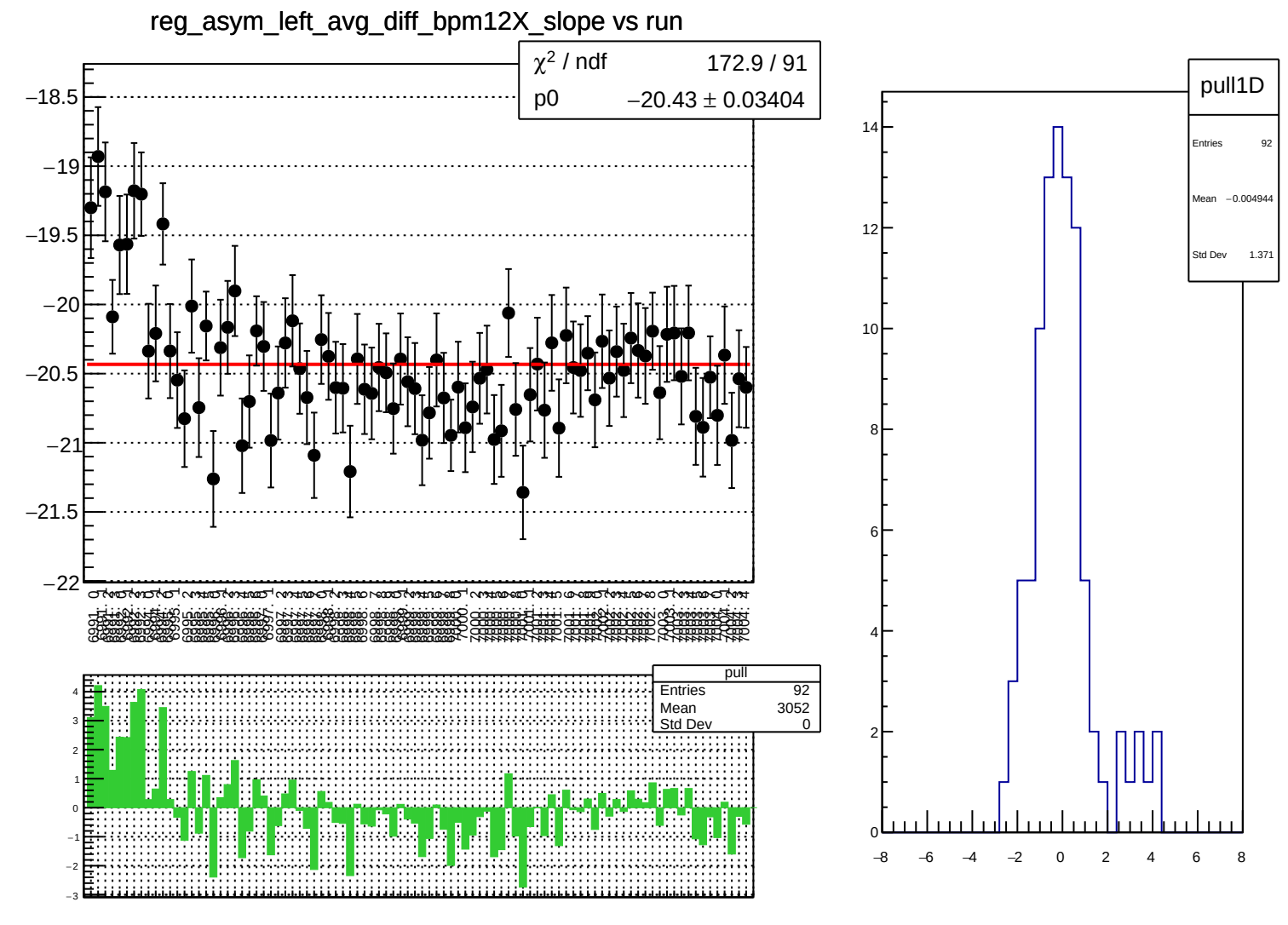

pull1D
Entries 92
Mean 0.01162
Std Dev 0.6854

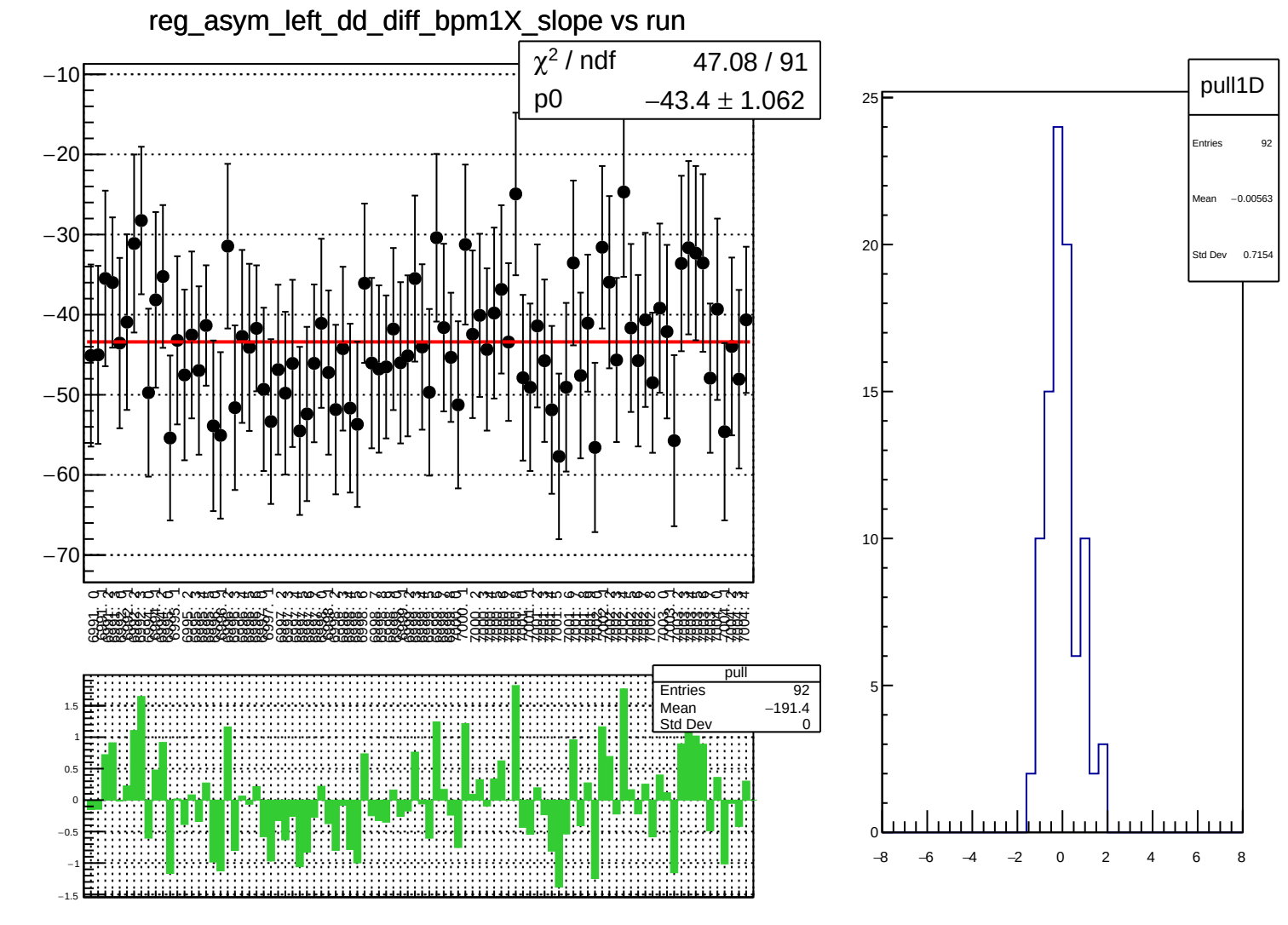

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.1 / 91
p0 9.828 ± 0.9772
pull
Entries 92
Mean 19.85
Std Dev 0

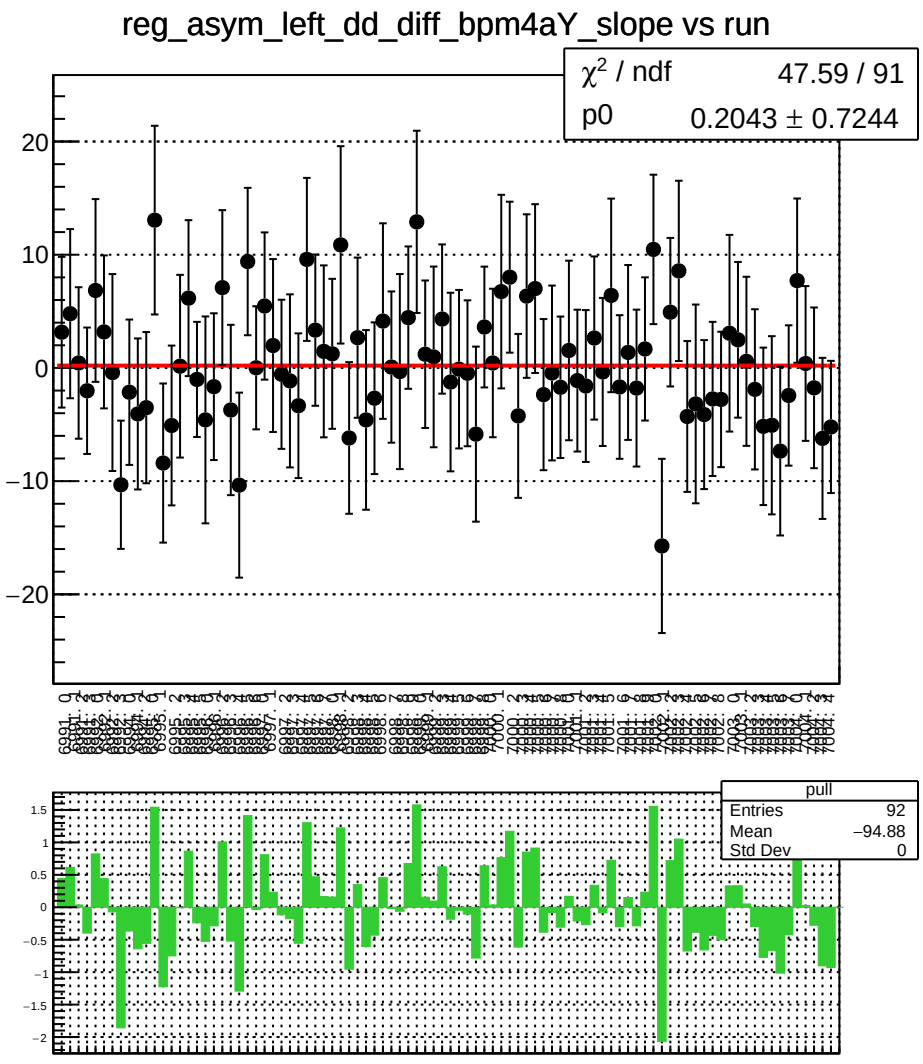

pull1D
Entries 92
Mean 0.006269
Std Dev 0.7001

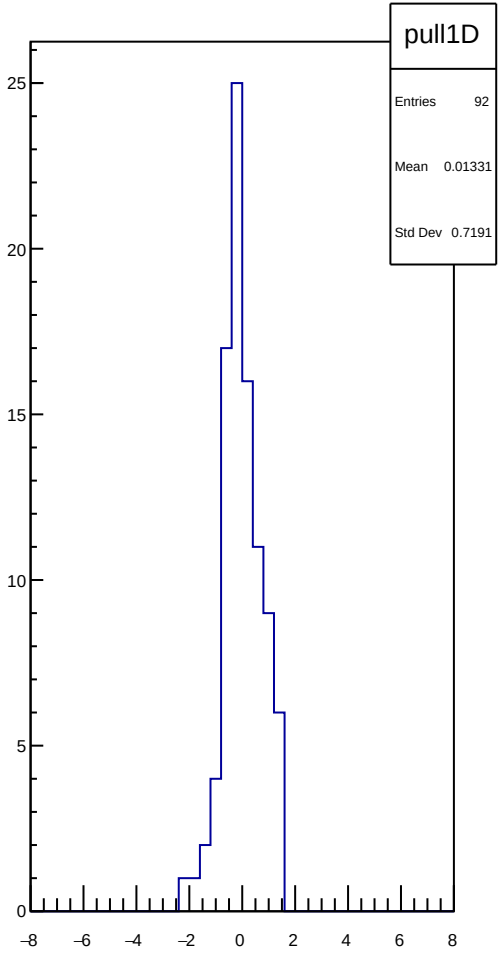

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.07 / 91
p0 8.404 ± 0.7602
pull
Entries 92
Mean −76.46
Std Dev 0

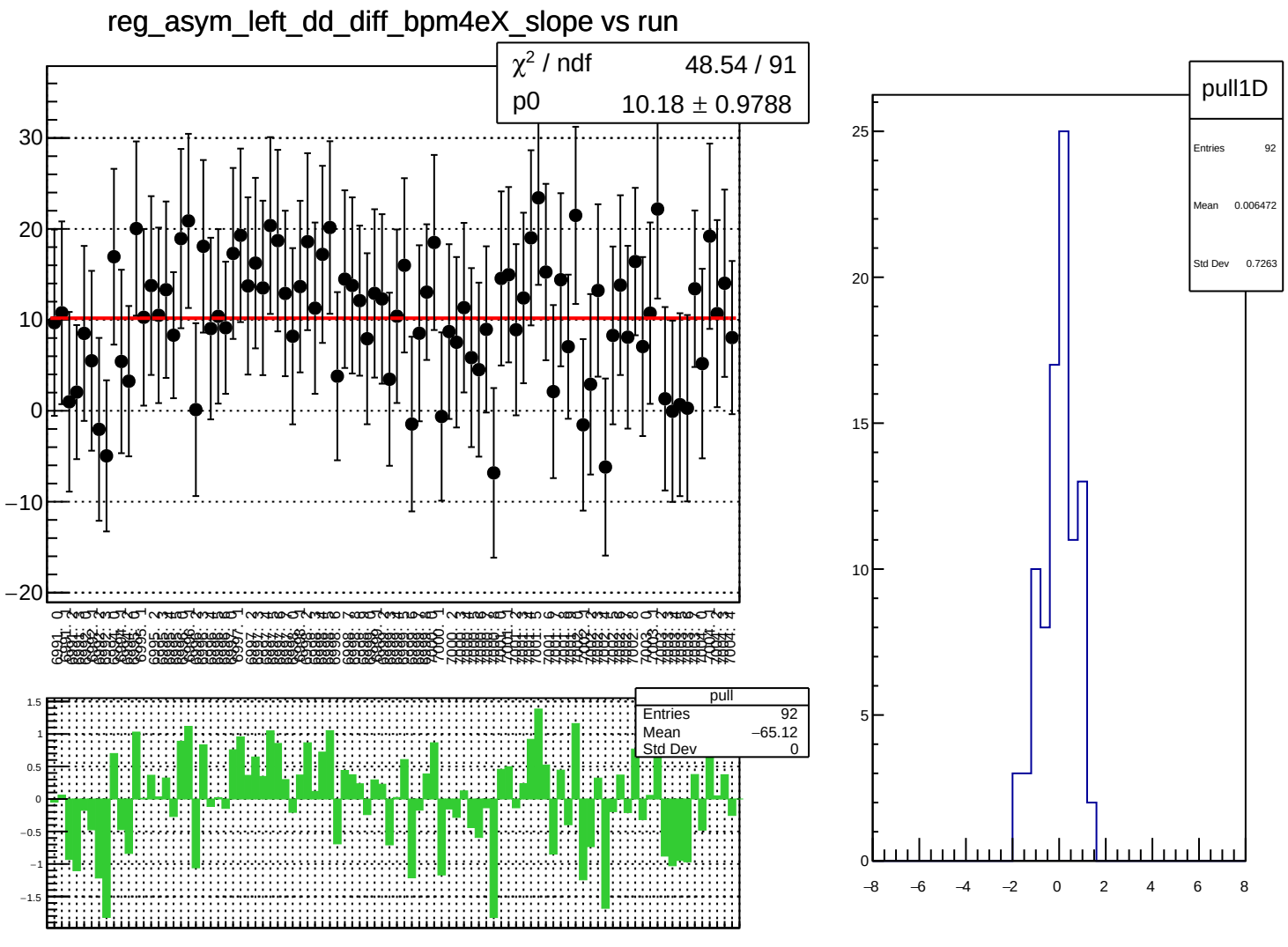

pull1D
Entries 92
Mean −0.0102
Std Dev 0.6921

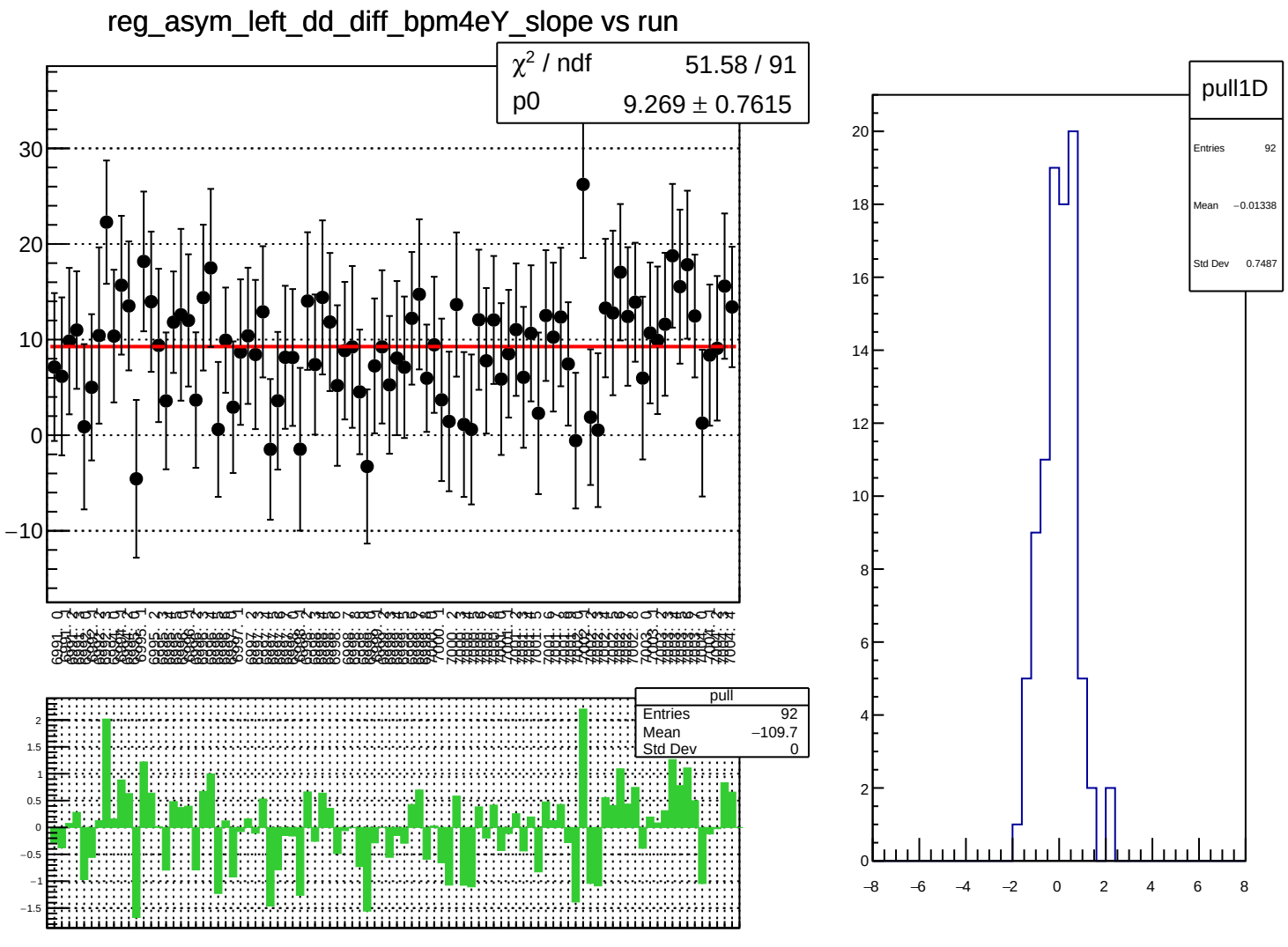

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 172.9 / 91
p0 −20.43 ± 0.03404
pull
Entries 92
Mean 3052
Std Dev 0
pull1D
Entries 92
Mean −0.004944
Std Dev 1.371

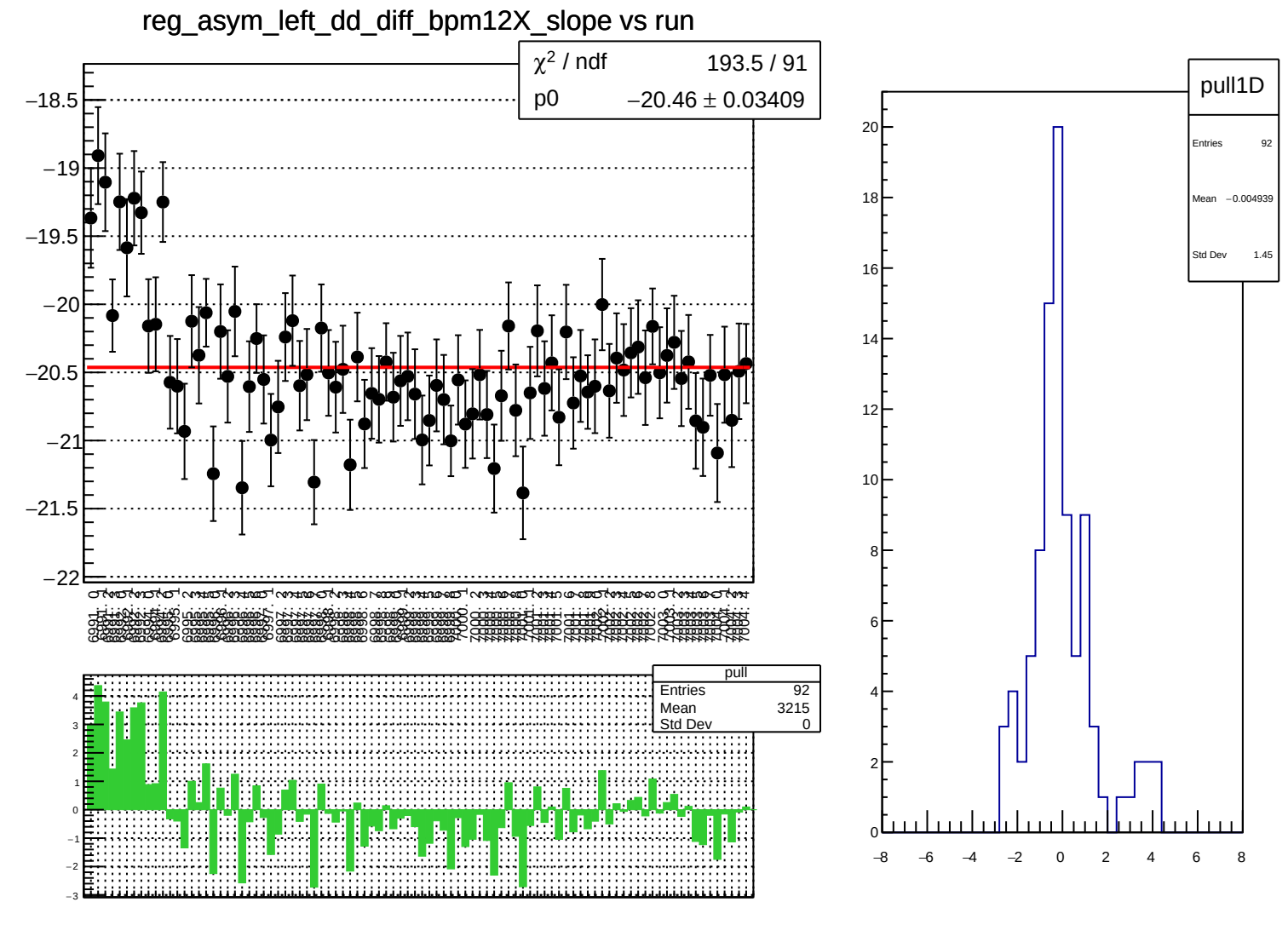

reg_asym_left_dd_diff_bpm1X_slope vs run
χ^2 / ndf 47.08 / 91
p0 −43.4 ± 1.062
pull
Entries 92
Mean −191.4
Std Dev 0
pull1D
Entries 92
Mean −0.00563
Std Dev 0.7154

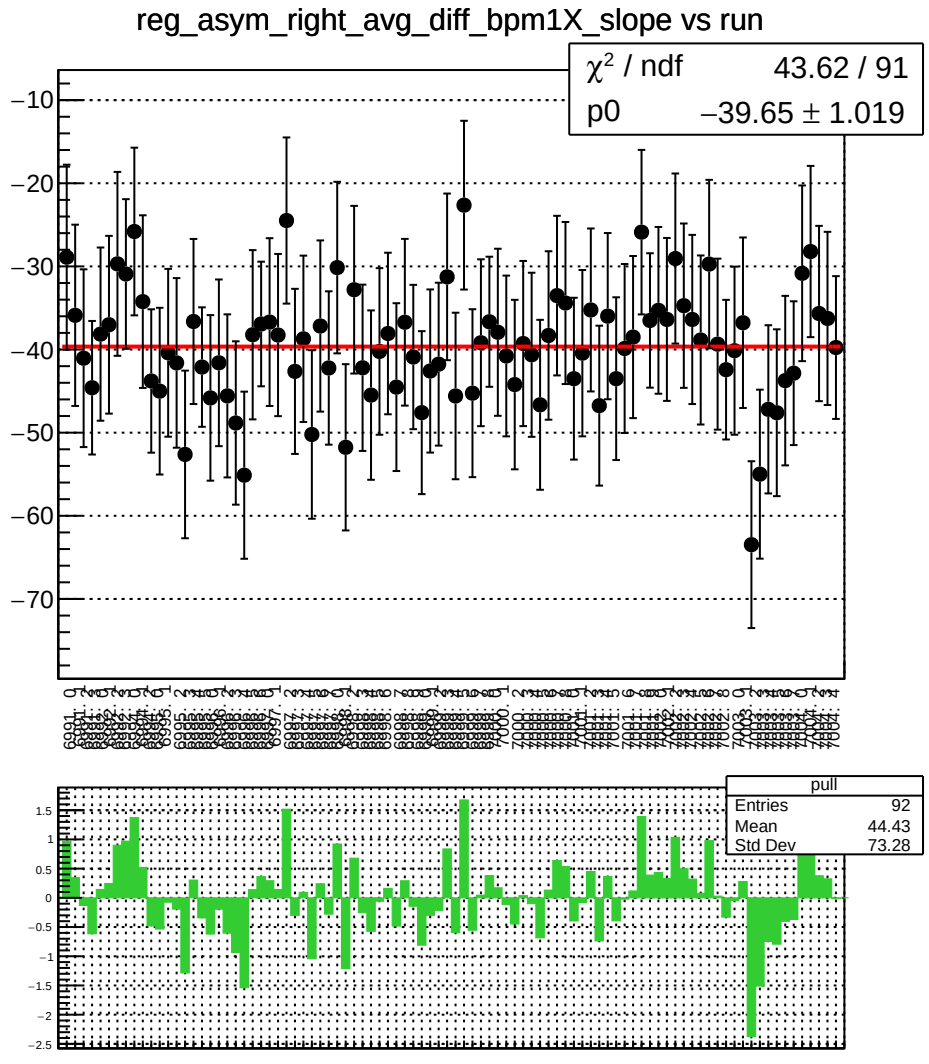

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.59 / 91
p0 0.2043 ± 0.7244
pull
Entries 92
Mean −94.88
Std Dev 0

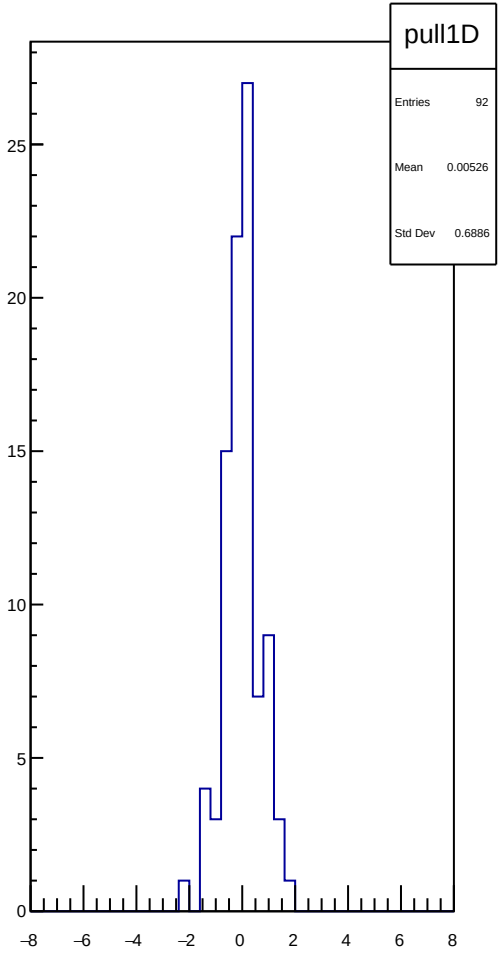

pull1D
Entries 92
Mean 0.01331
Std Dev 0.7191

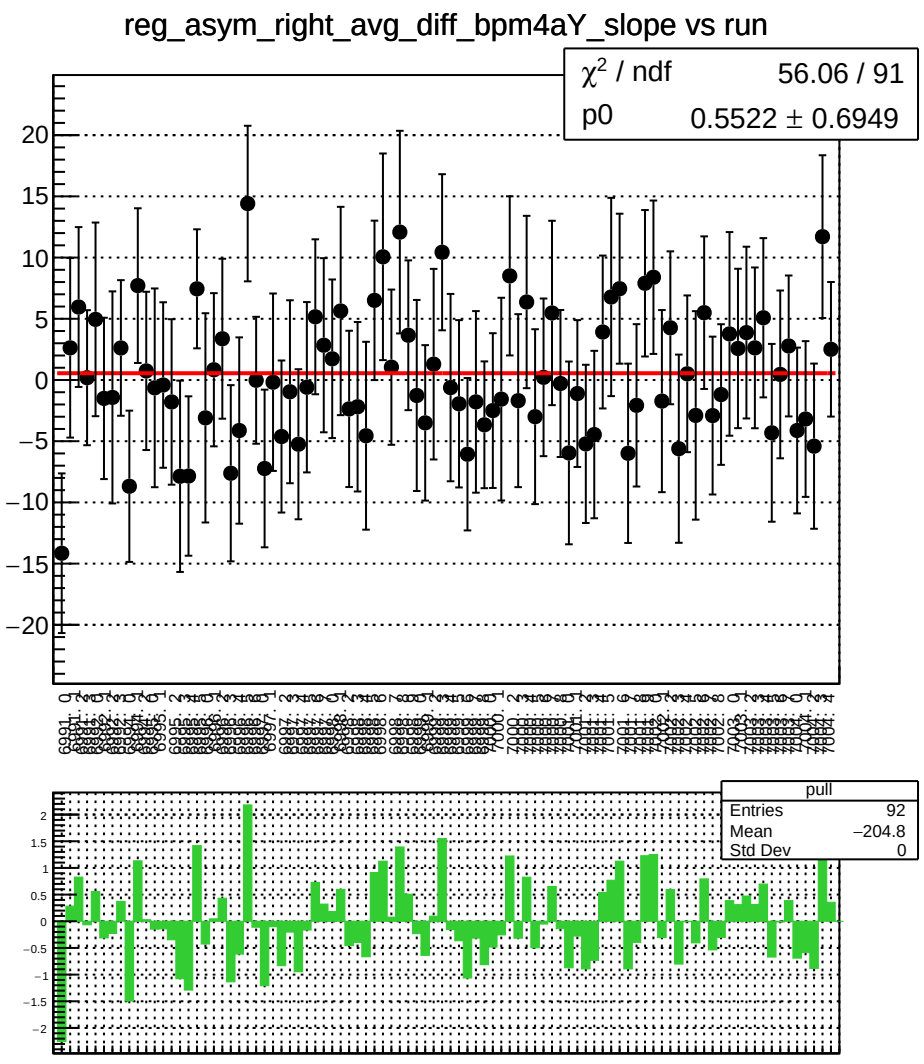

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.54 / 91
p0 10.18 ± 0.9788
pull
Entries 92
Mean −65.12
Std Dev 0
pull1D
Entries 92
Mean 0.006472
Std Dev 0.7263

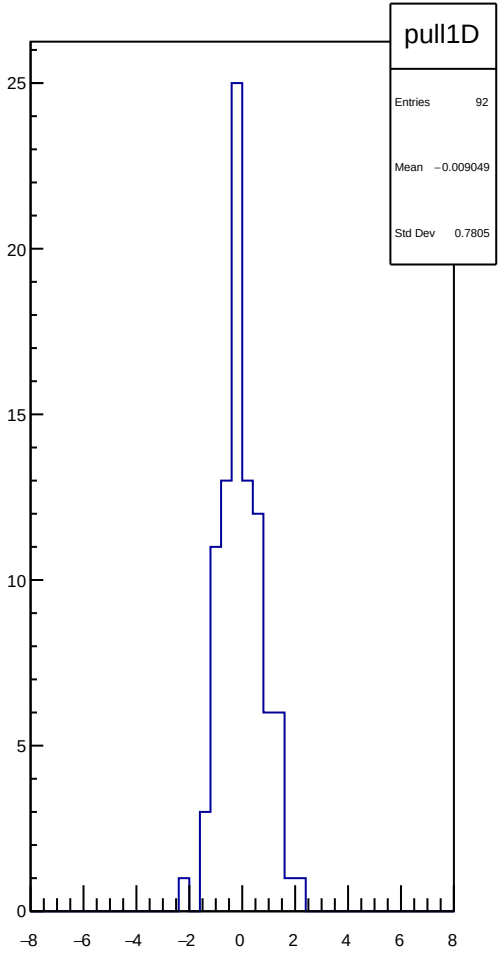

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.58 / 91
p0 9.269 ± 0.7615
pull
Entries 92
Mean −109.7
Std Dev 0
pull1D
Entries 92
Mean −0.01338
Std Dev 0.7487

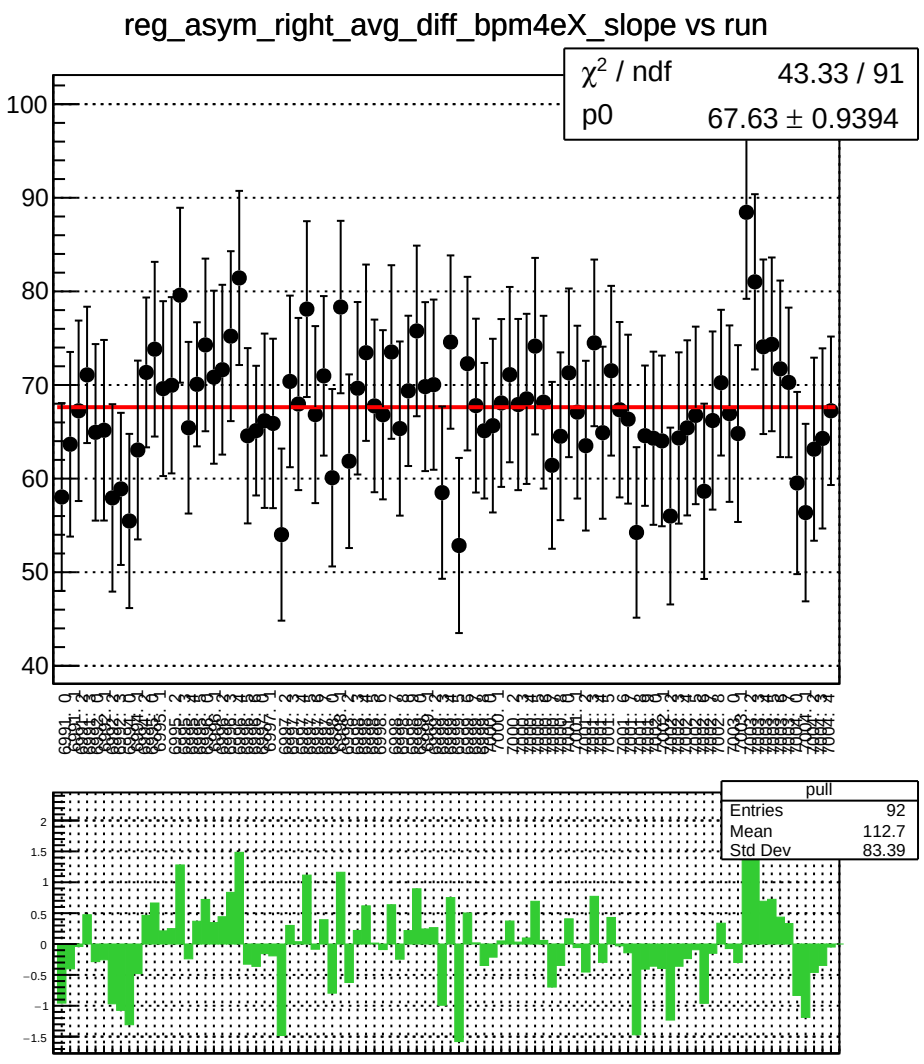

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 193.5 / 91
p0 −20.46 ± 0.03409
pull
Entries 92
Mean 3215
Std Dev 0
pull1D
Entries 92
Mean −0.004939
Std Dev 1.45

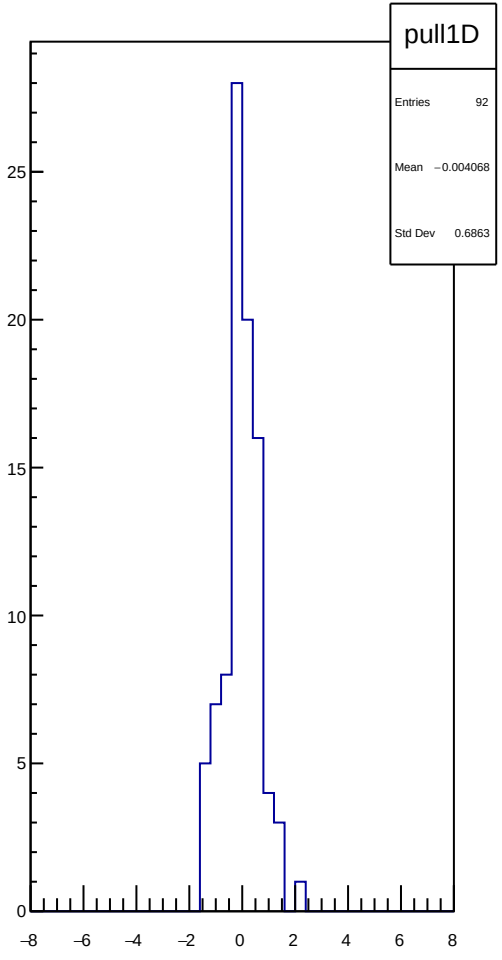

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 43.62 / 91
p0 −39.65 ± 1.019
pull
Entries 92
Mean 44.43
Std Dev 73.28

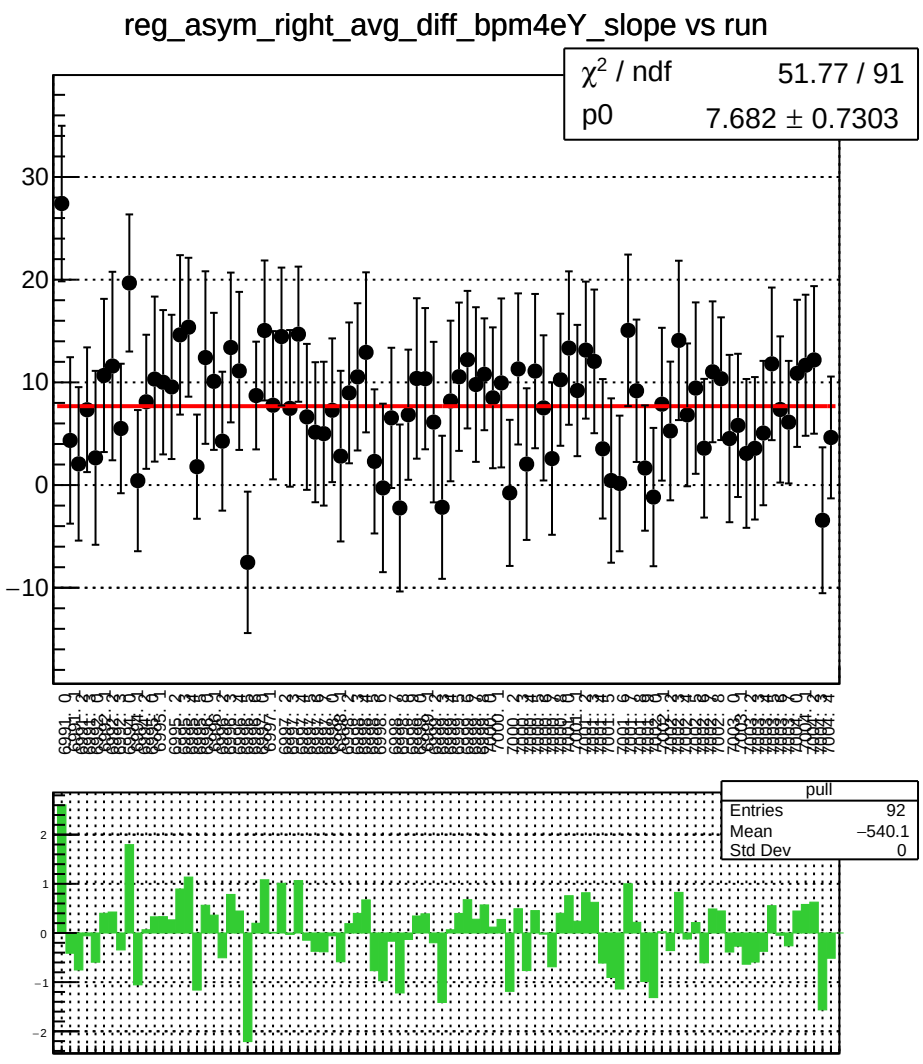

pull1D
Entries 92
Mean 0.00526
Std Dev 0.6886

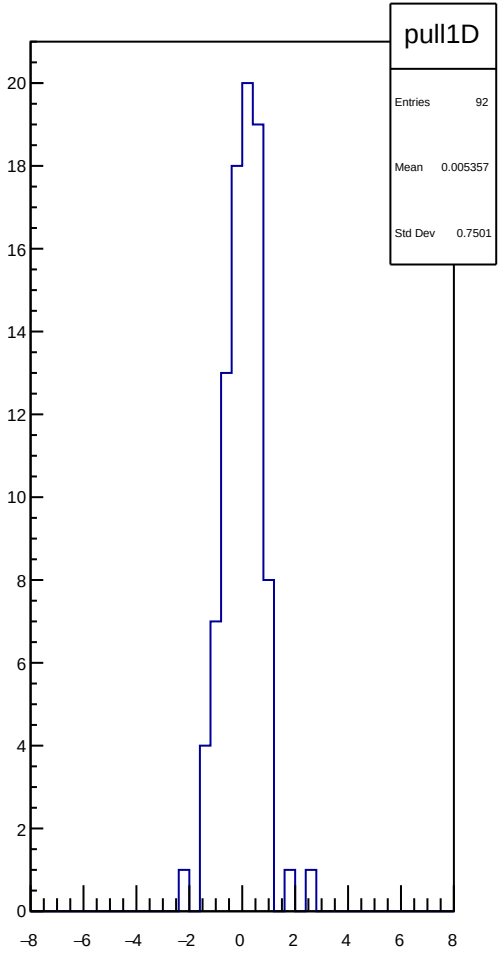

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.06 / 91
p0 0.5522 ± 0.6949
pull
Entries 92
Mean −204.8
Std Dev 0

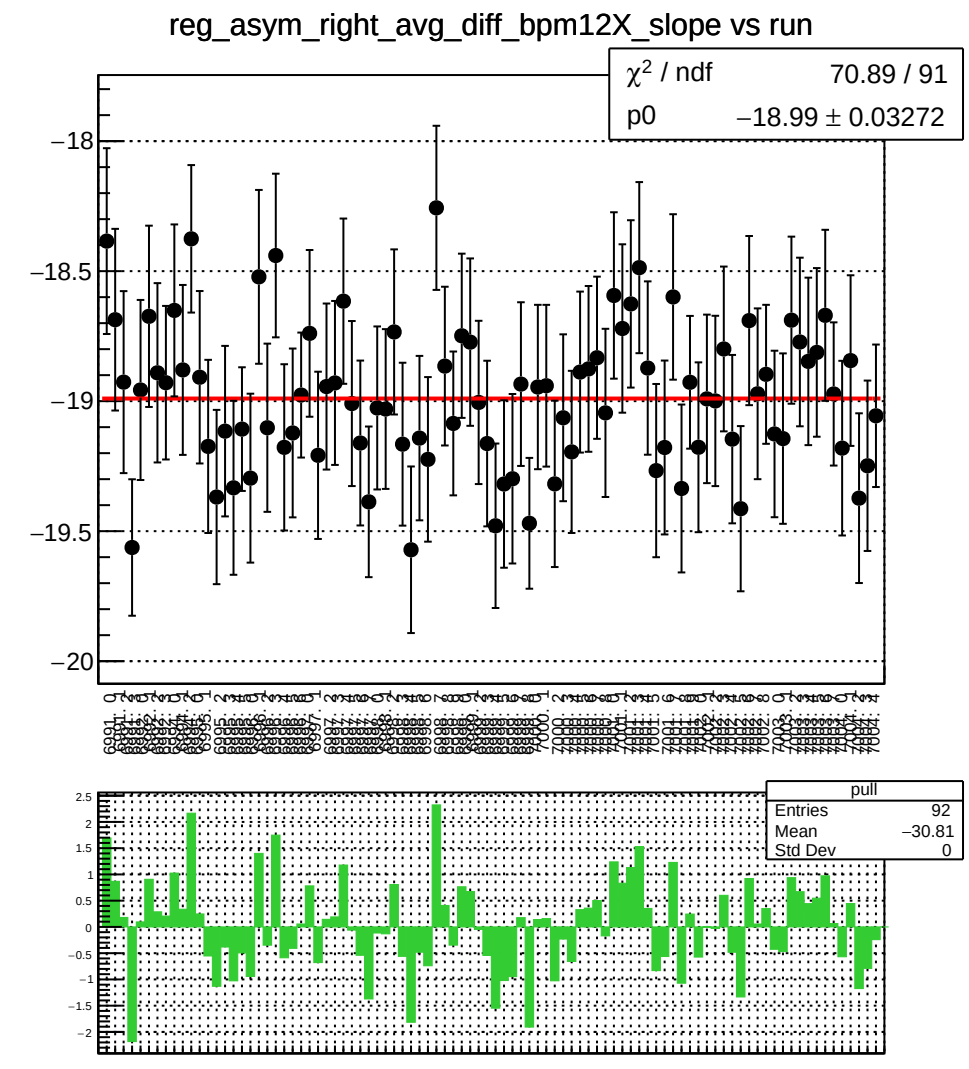

pull1D
Entries 92
Mean −0.009049
Std Dev 0.7805

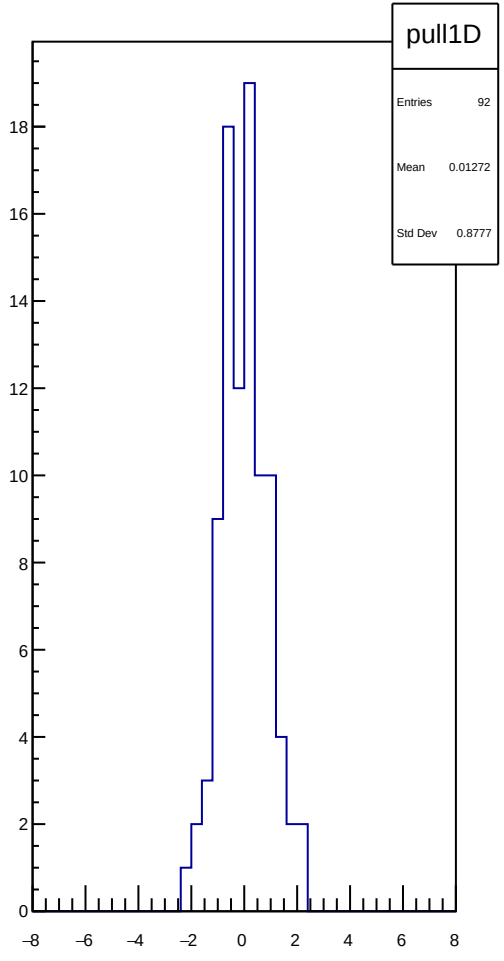

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.33 / 91
p0 67.63 ± 0.9394
pull
Entries 92
Mean 112.7
Std Dev 83.39

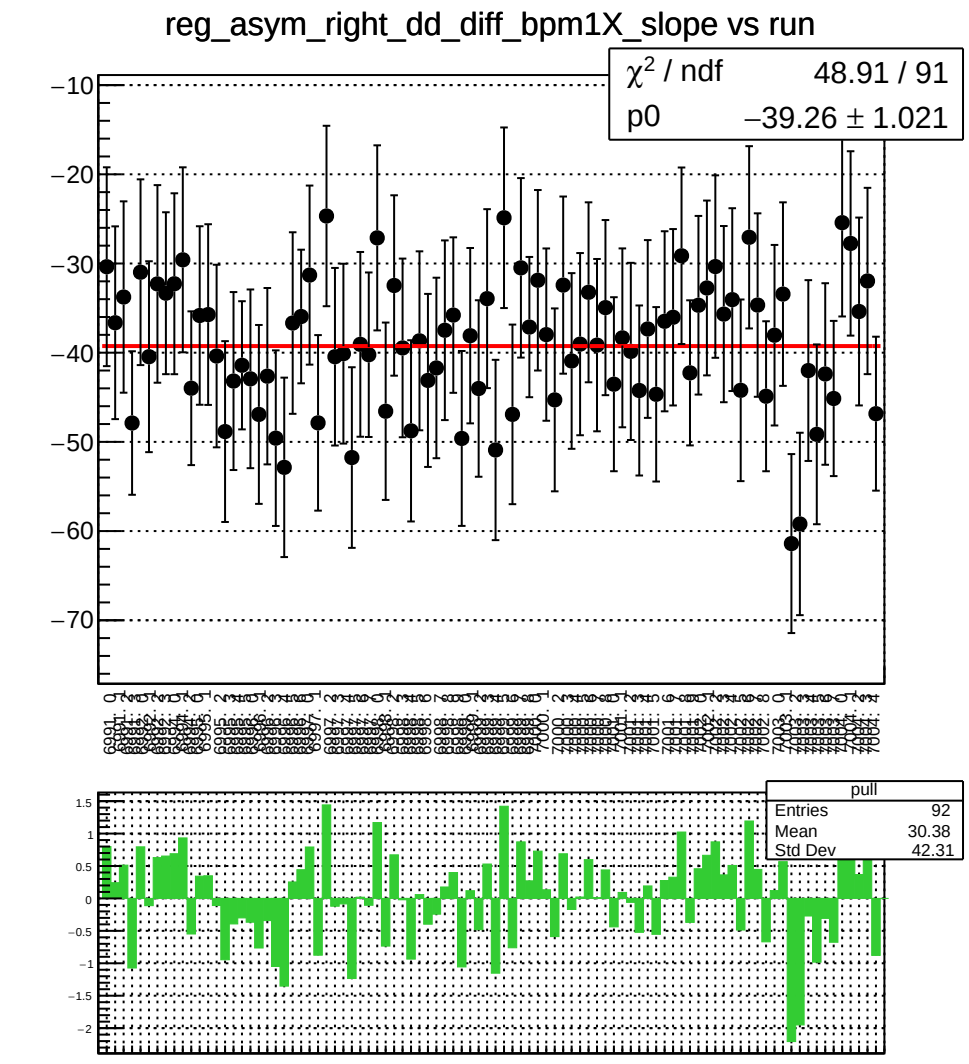

pull1D
Entries 92
Mean −0.004068
Std Dev 0.6863

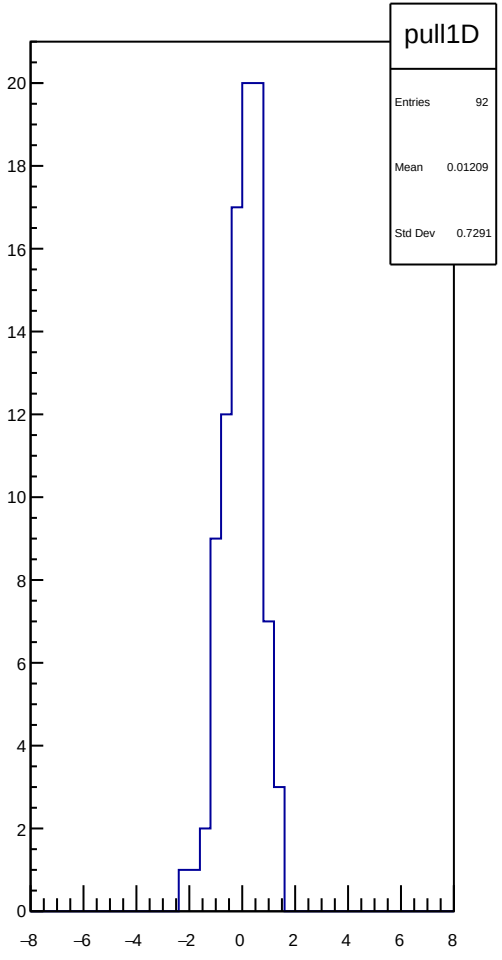

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.77 / 91
p0 7.682 ± 0.7303
30
20
10
0
−10
pull
Entries 92
Mean −540.1
Std Dev 0
2
1
0
−1
−2

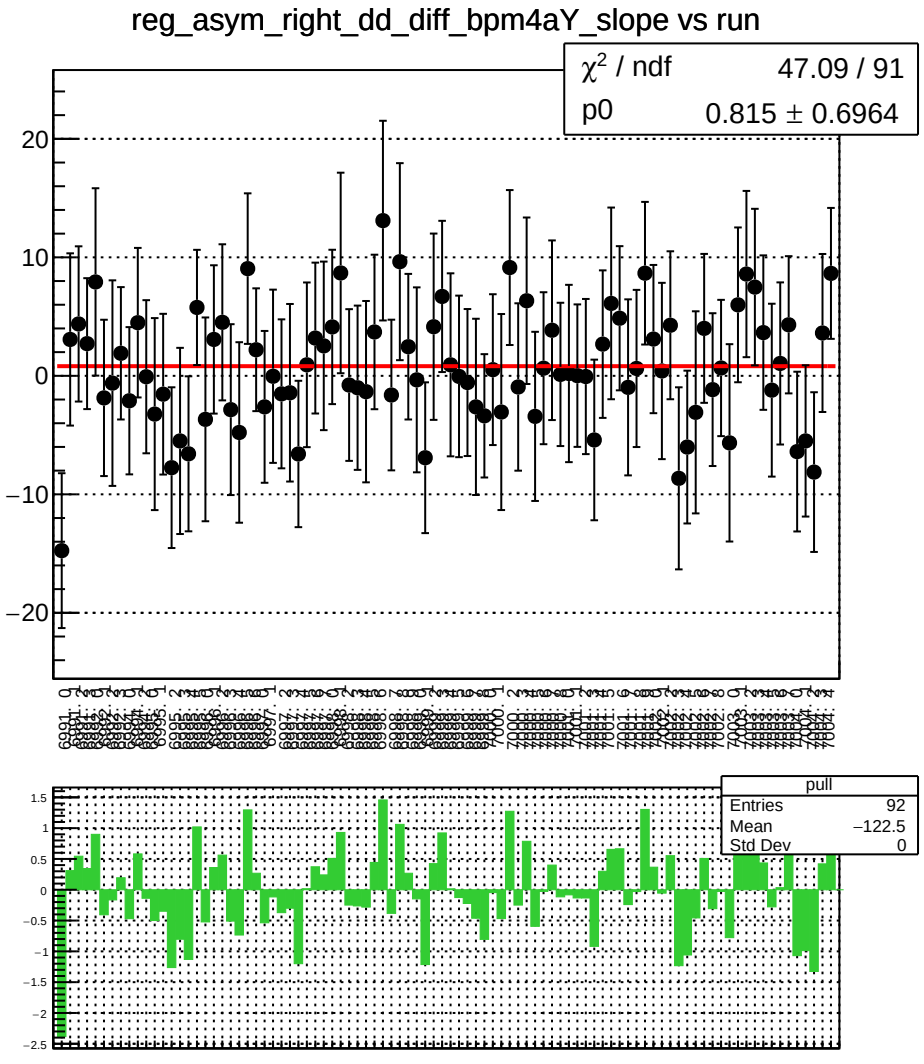

pull1D
Entries 92
Mean 0.005357
Std Dev 0.7501
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

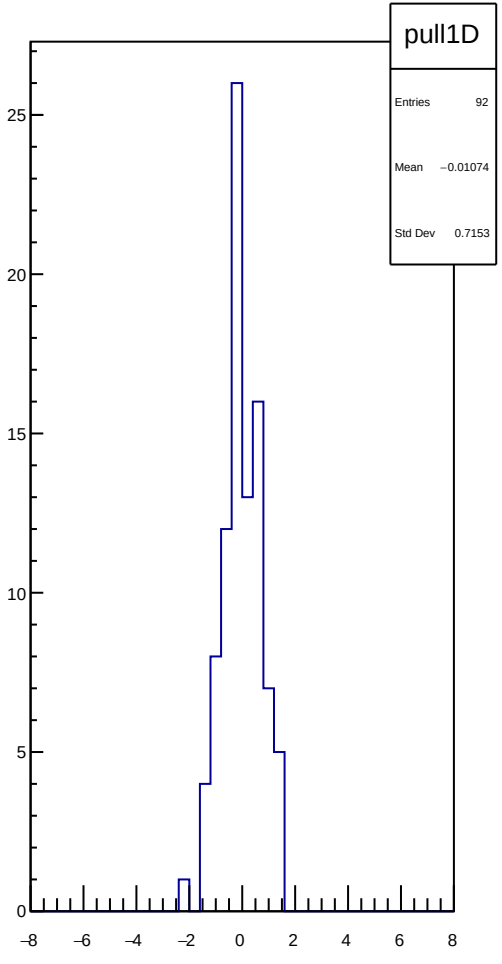

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 70.89 / 91
p0 −18.99 ± 0.03272
−18
−18.5
−19
−19.5
−20
pull
Entries 92
Mean −30.81
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

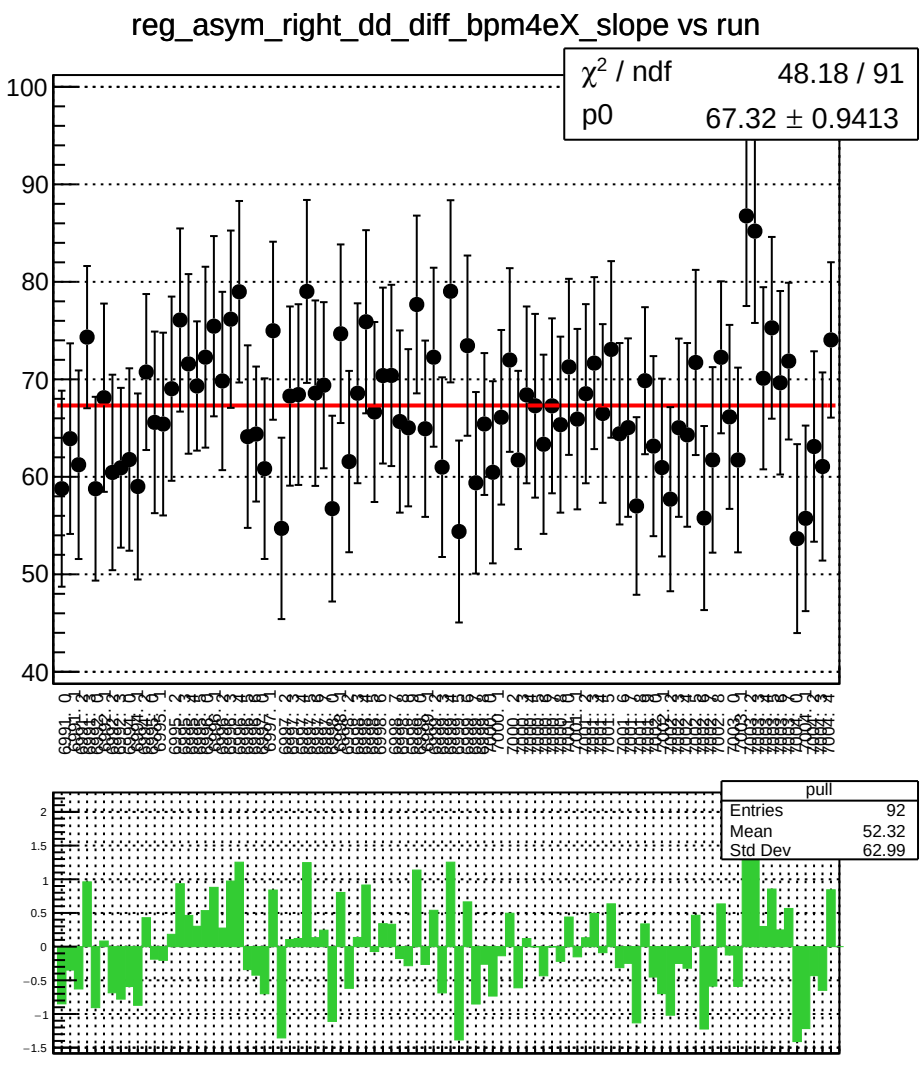

pull1D
Entries 92
Mean 0.01272
Std Dev 0.8777
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

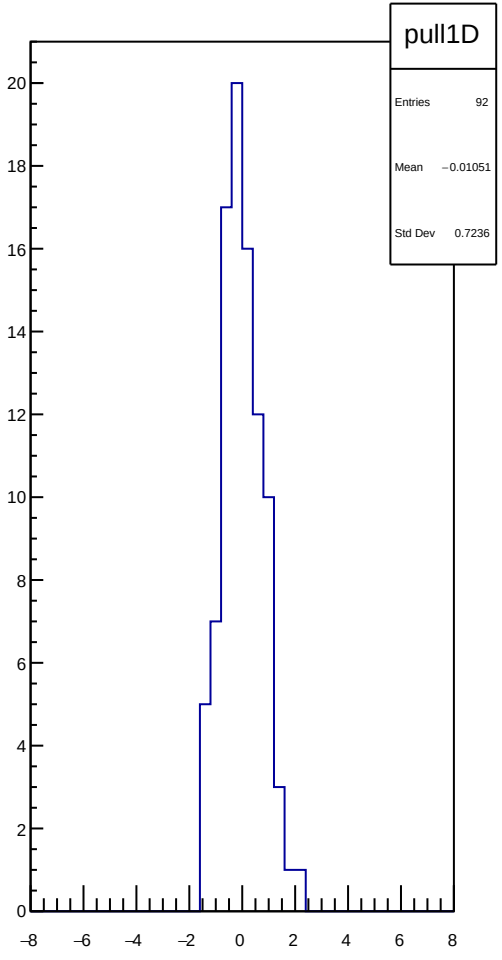

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 48.91 / 91
p0 −39.26 ± 1.021
pull
Entries 92
Mean 30.38
Std Dev 42.31

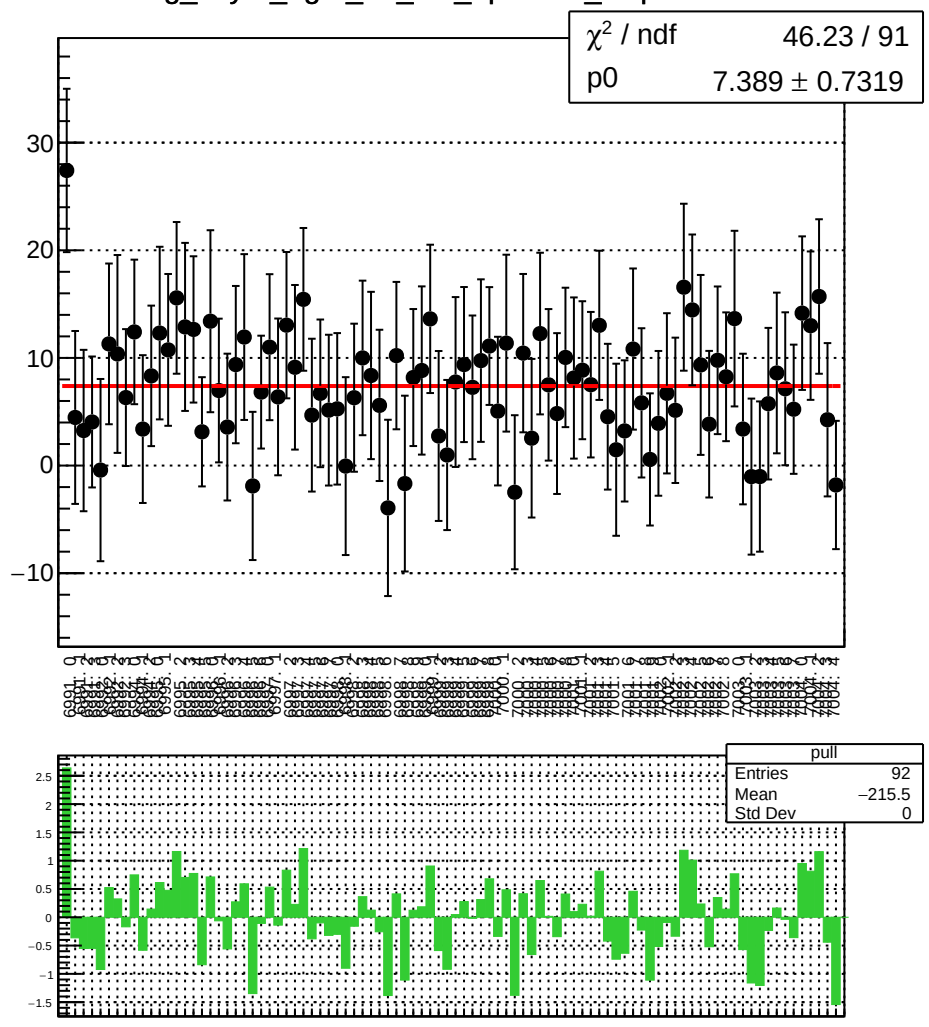

pull1D
Entries 92
Mean 0.01209
Std Dev 0.7291

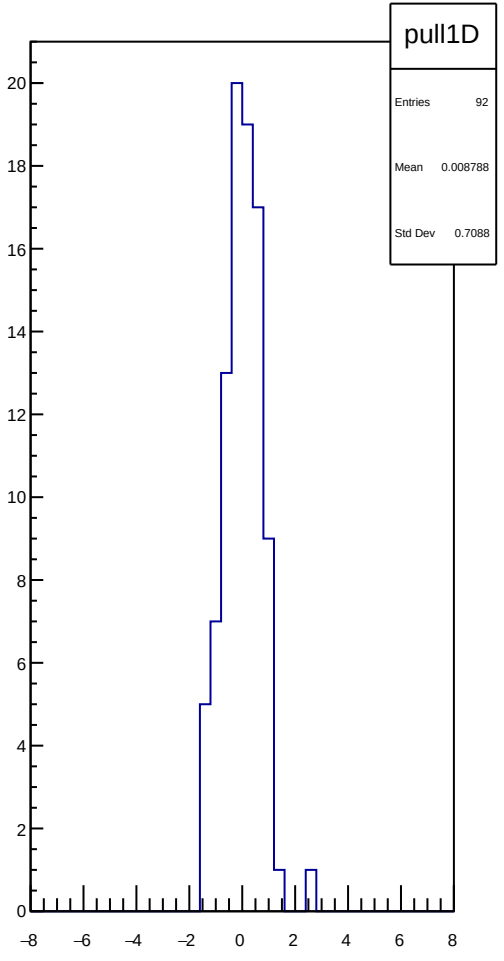

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.09 / 91
p0 0.815 ± 0.6964
pull
Entries 92
Mean −122.5
Std Dev 0

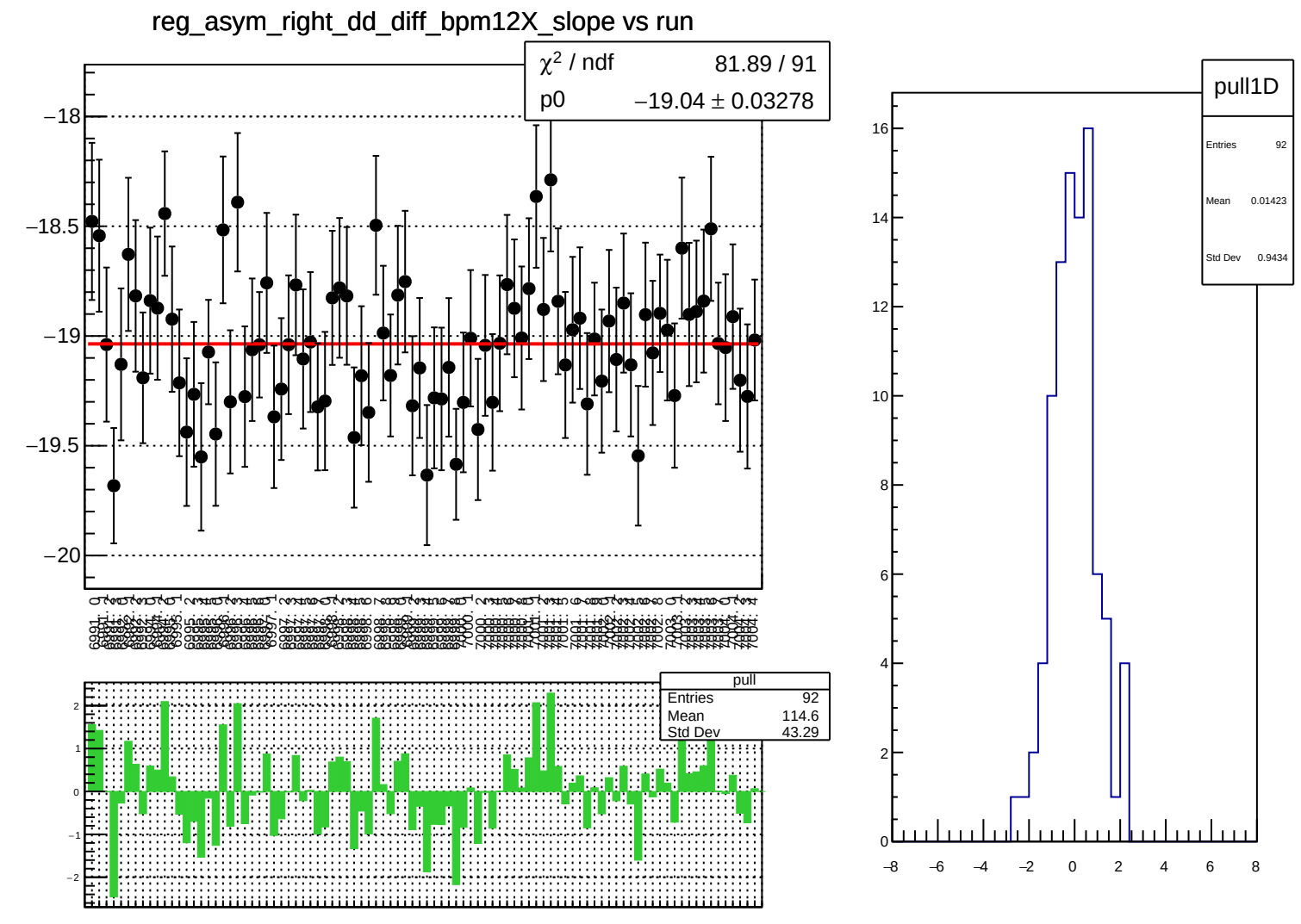

pull1D
Entries 92
Mean −0.01074
Std Dev 0.7153

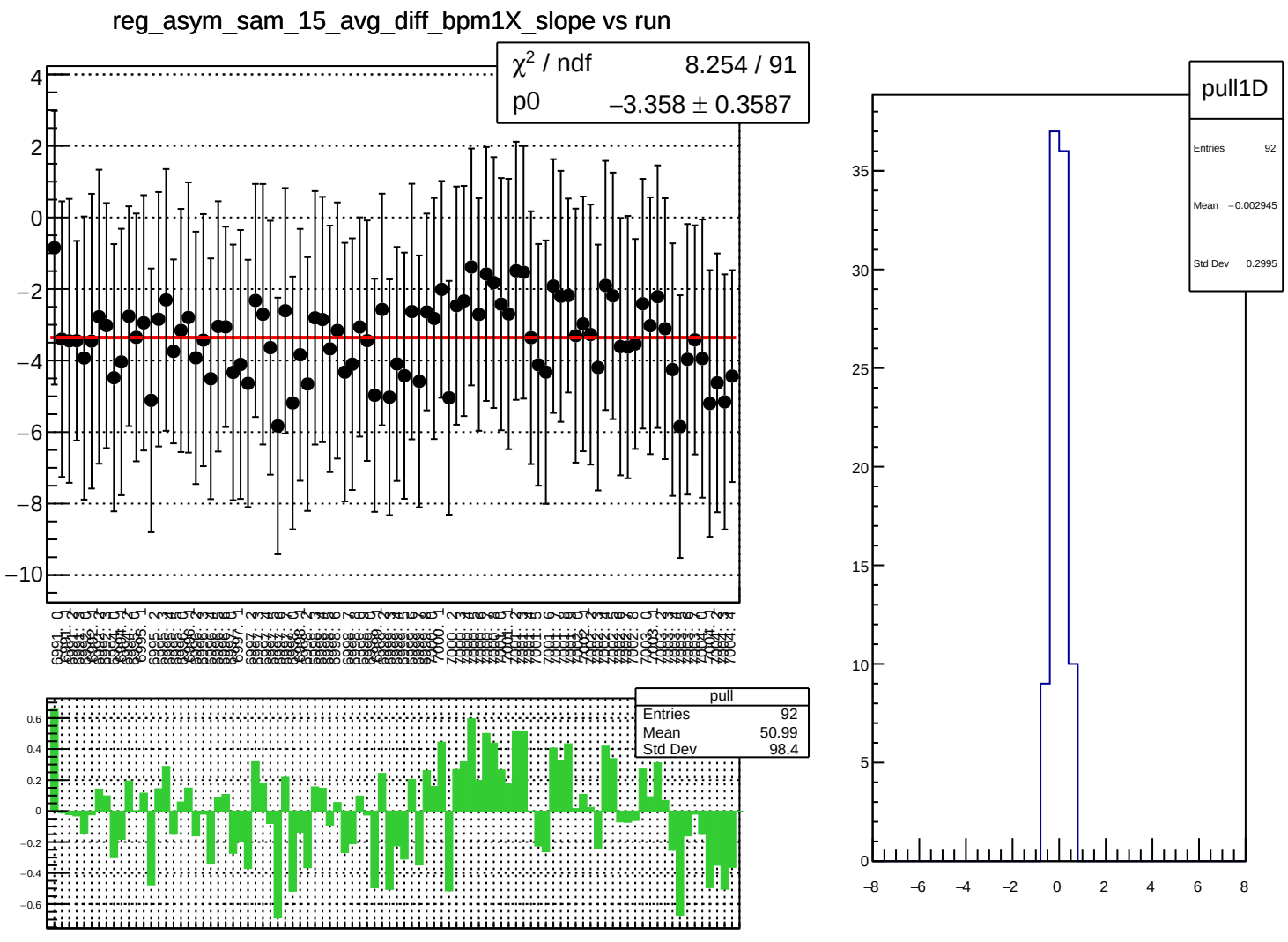

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.18 / 91
p0 67.32 ± 0.9413
pull
Entries 92
Mean 52.32
Std Dev 62.99

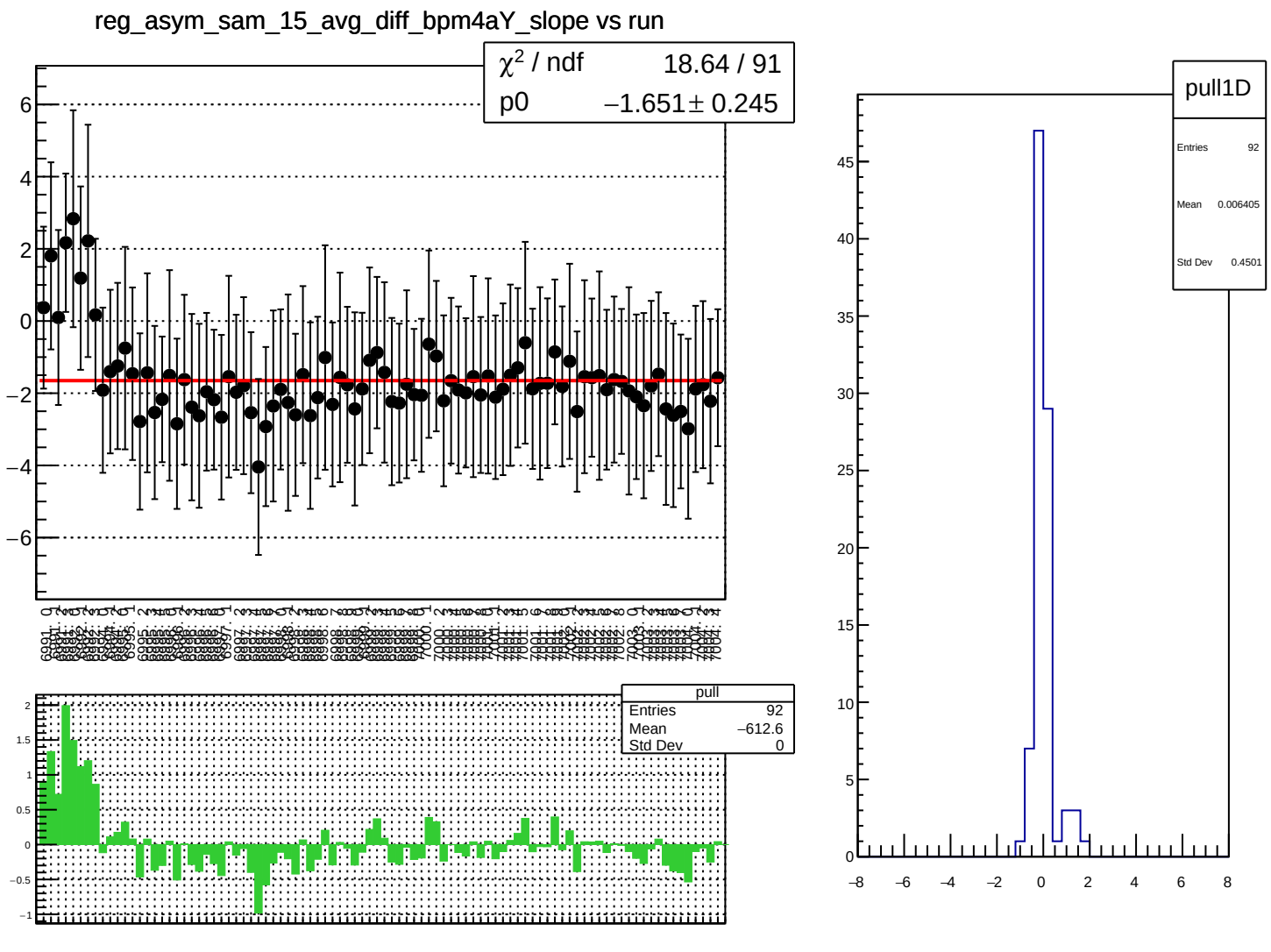

pull1D
Entries 92
Mean −0.01051
Std Dev 0.7236

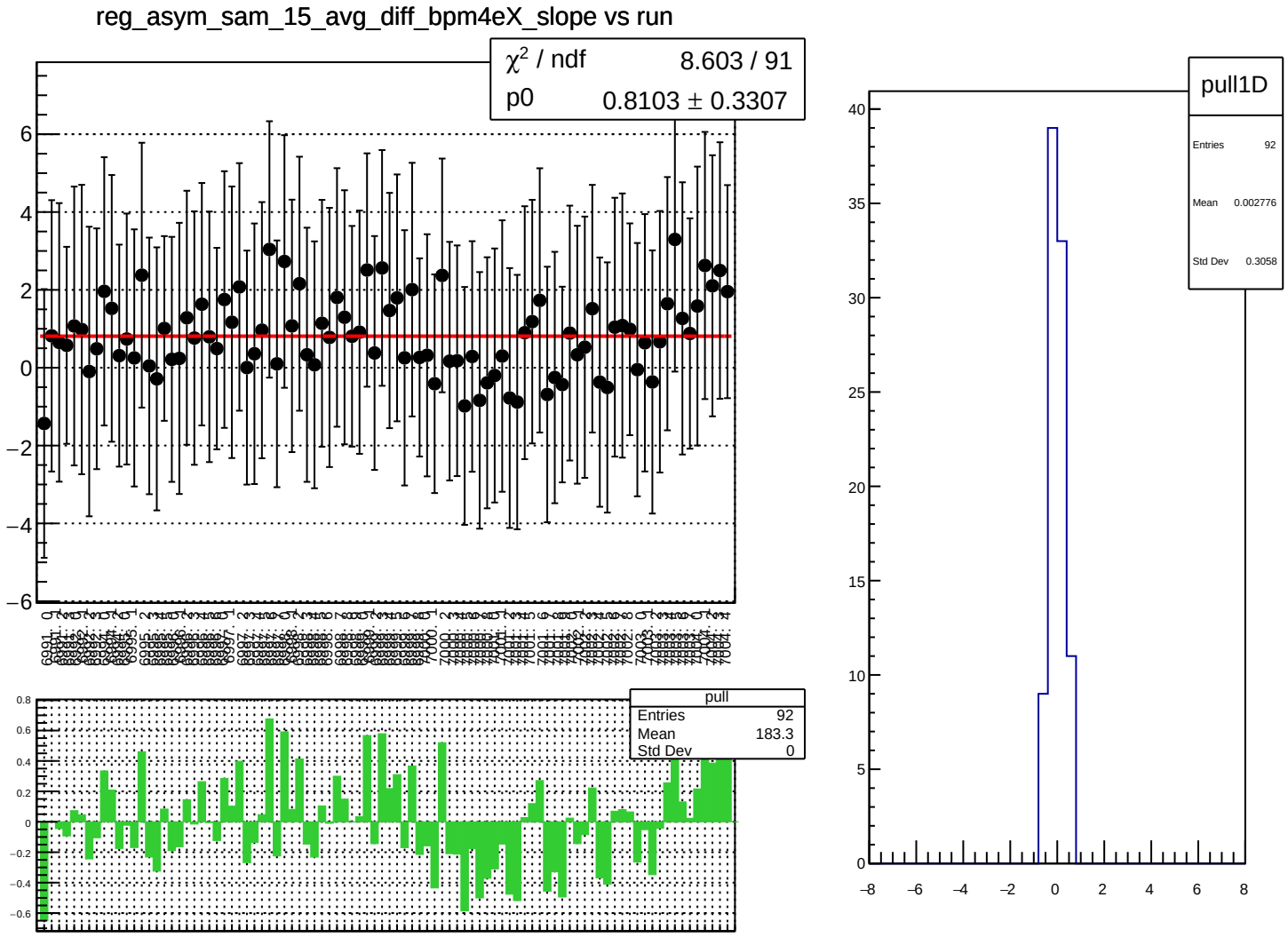

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.23 / 91
p0 7.389 ± 0.7319
pull
Entries 92
Mean −215.5
Std Dev 0

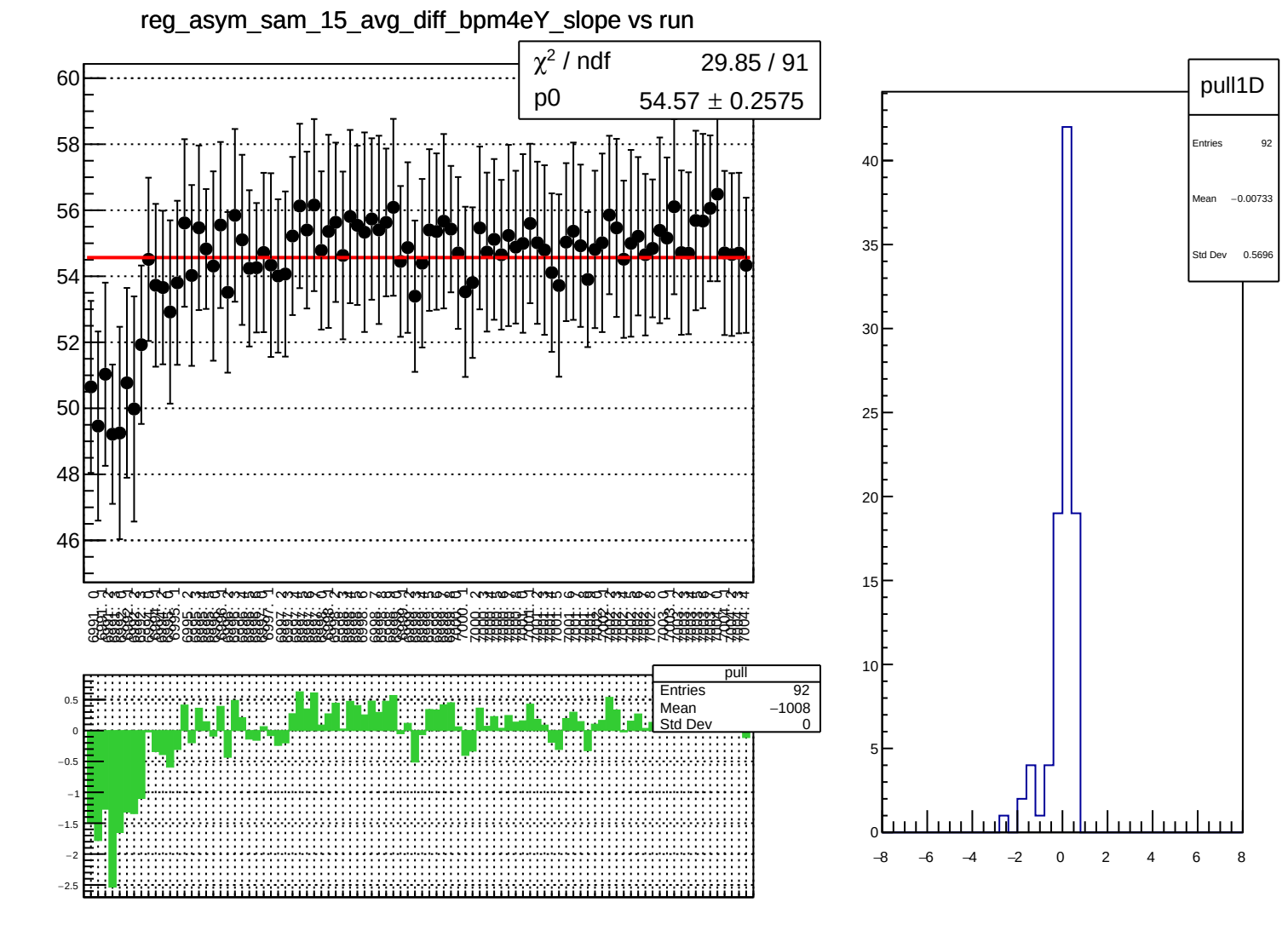

pull1D
Entries 92
Mean 0.008788
Std Dev 0.7088

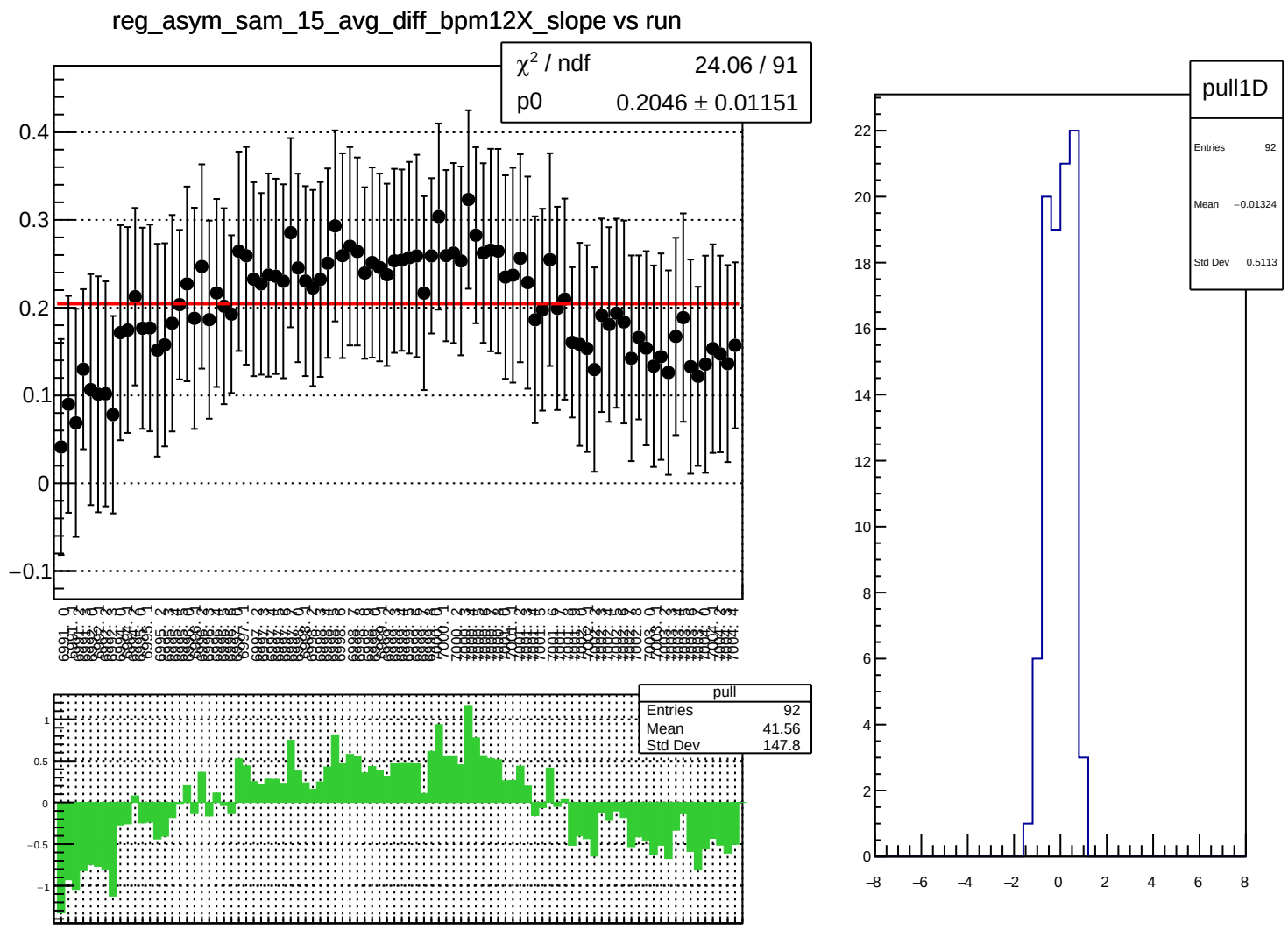

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 81.89 / 91
p0 −19.04 ± 0.03278
−18
−18.5
−19
−19.5
−20
pull
Entries 92
Mean 114.6
Std Dev 43.29
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.01423
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

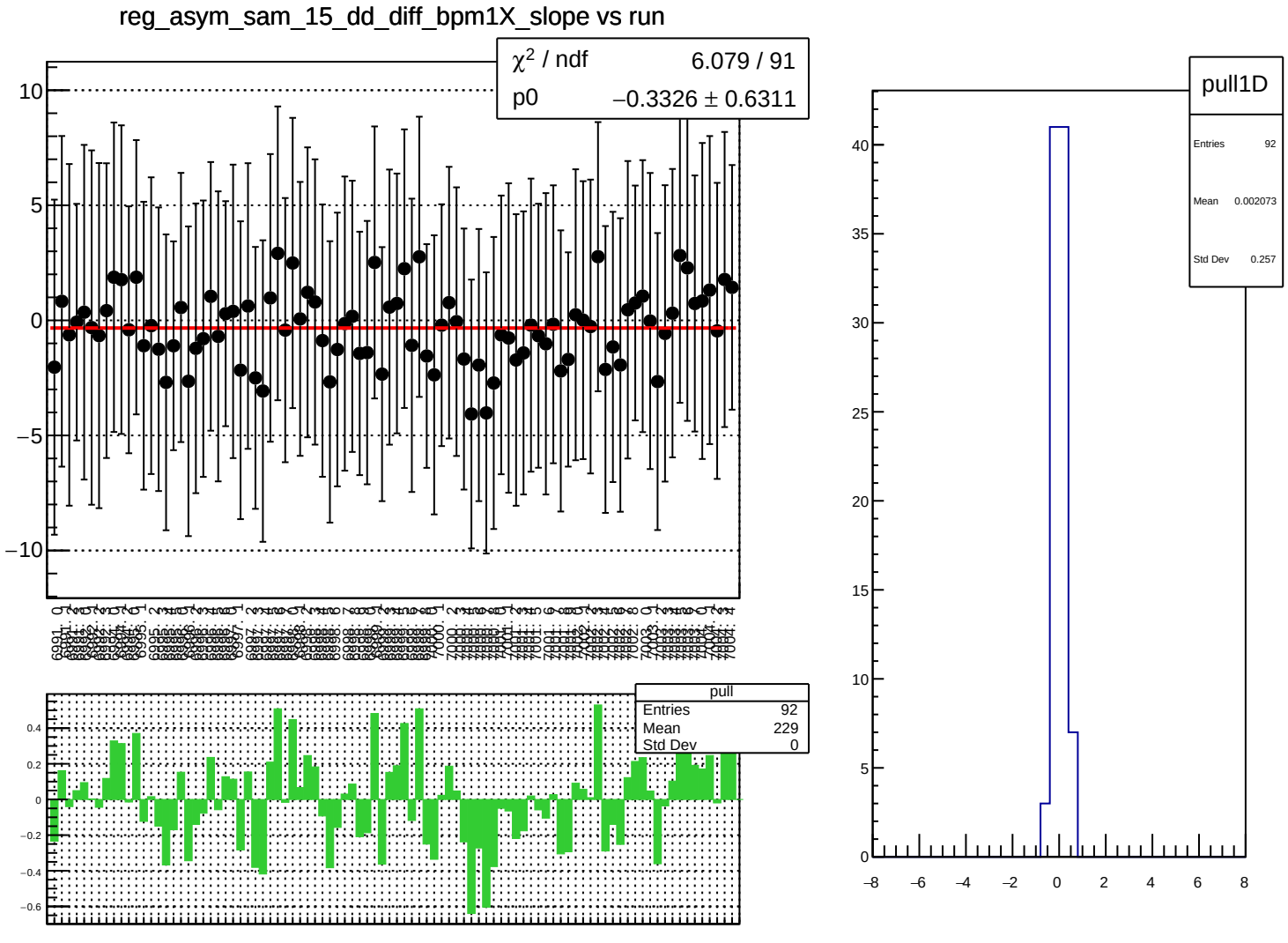

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 8.254 / 91
p0 −3.358 ± 0.3587
pull
Entries 92
Mean 50.99
Std Dev 98.4
pull1D
Entries 92
Mean −0.002945
Std Dev 0.2995

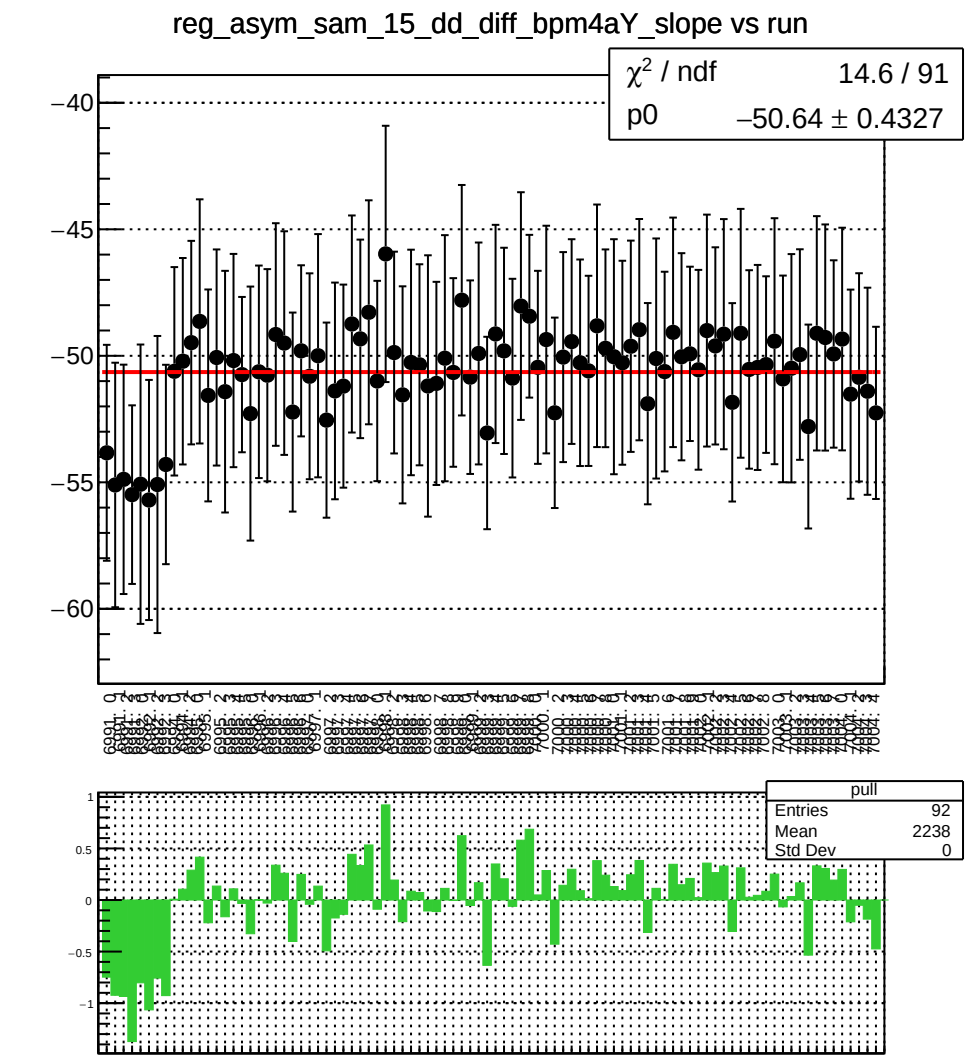

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.64 / 91
p0 −1.651 ± 0.245
pull
Entries 92
Mean −612.6
Std Dev 0
pull1D
Entries 92
Mean 0.006405
Std Dev 0.4501

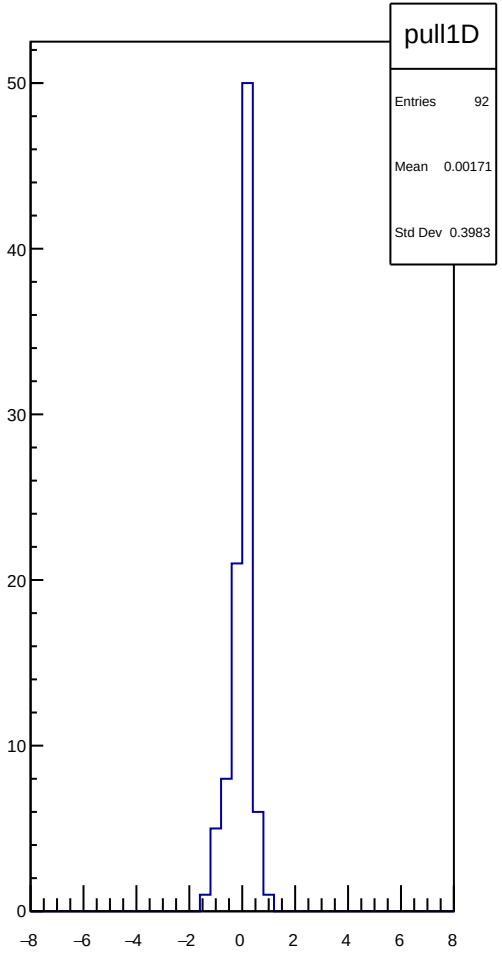

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.603 / 91
p0 0.8103 ± 0.3307
pull
Entries 92
Mean 183.3
Std Dev 0
pull1D
Entries 92
Mean 0.002776
Std Dev 0.3058

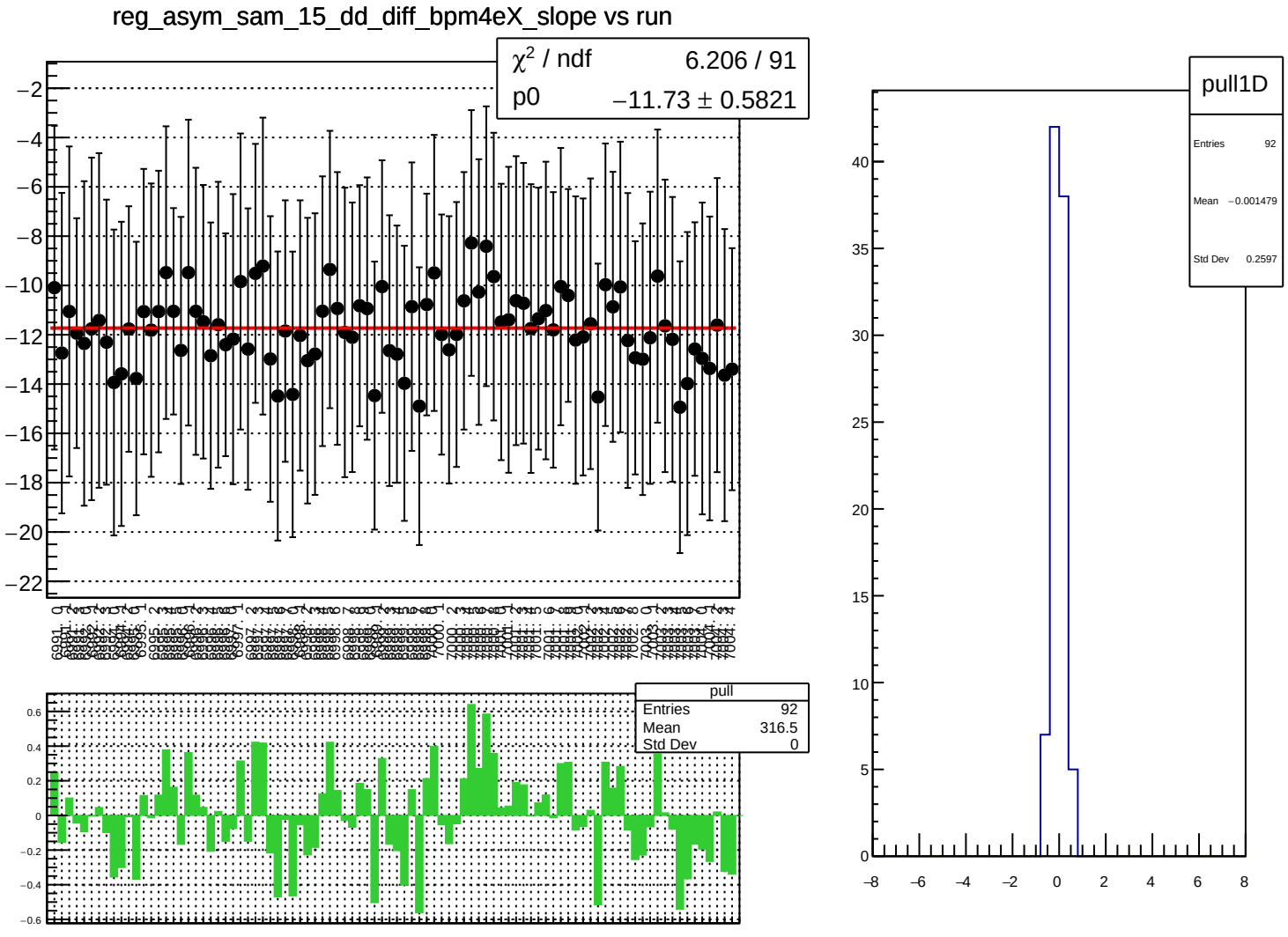

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.85 / 91
p0 54.57 ± 0.2575
pull
Entries 92
Mean −1008
Std Dev 0
pull1D
Entries 92
Mean −0.00733
Std Dev 0.5696

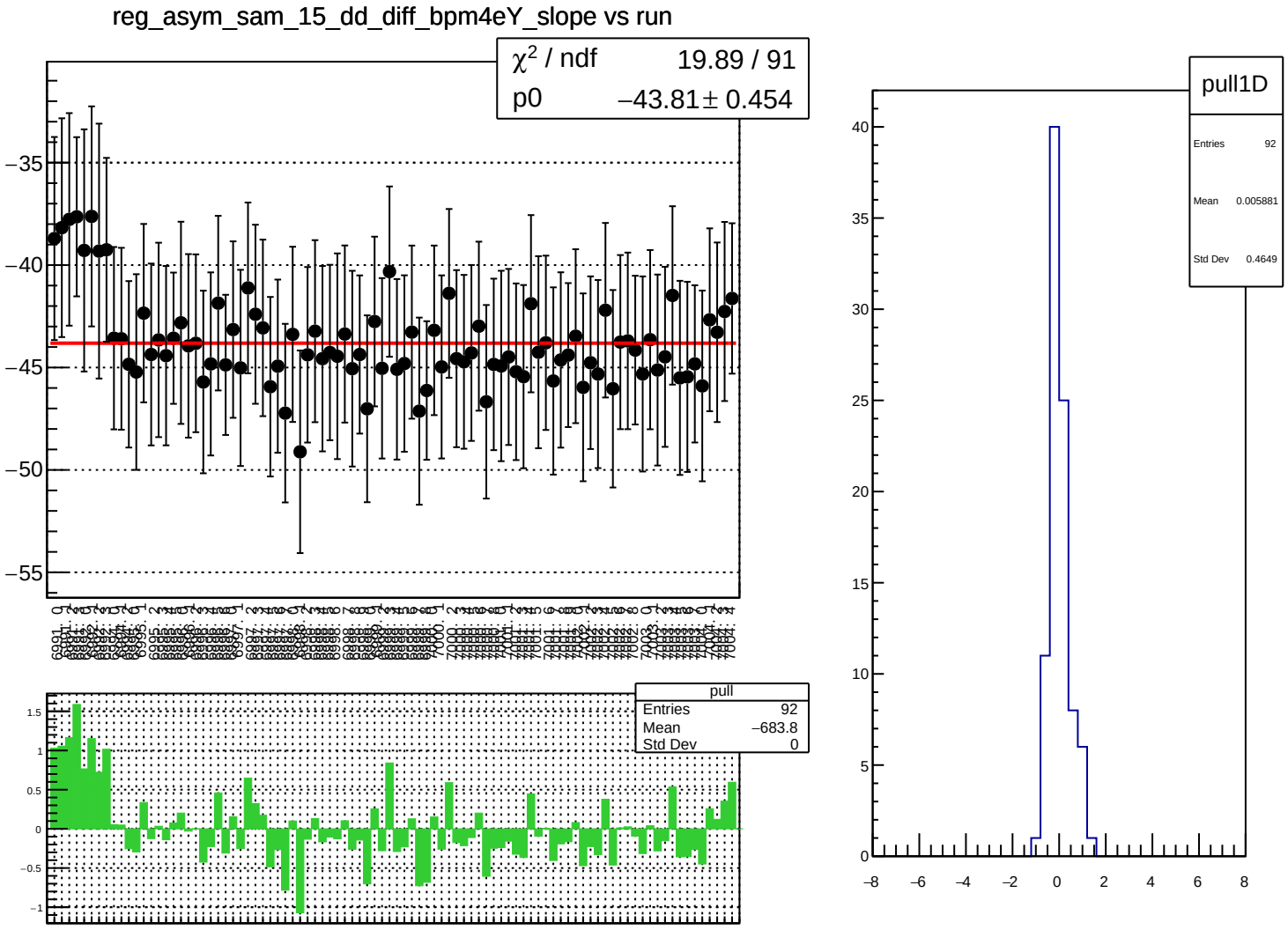

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 24.06 / 91
p0 0.2046 ± 0.01151
pull
Entries 92
Mean 41.56
Std Dev 147.8
pull1D
Entries 92
Mean −0.01324
Std Dev 0.5113

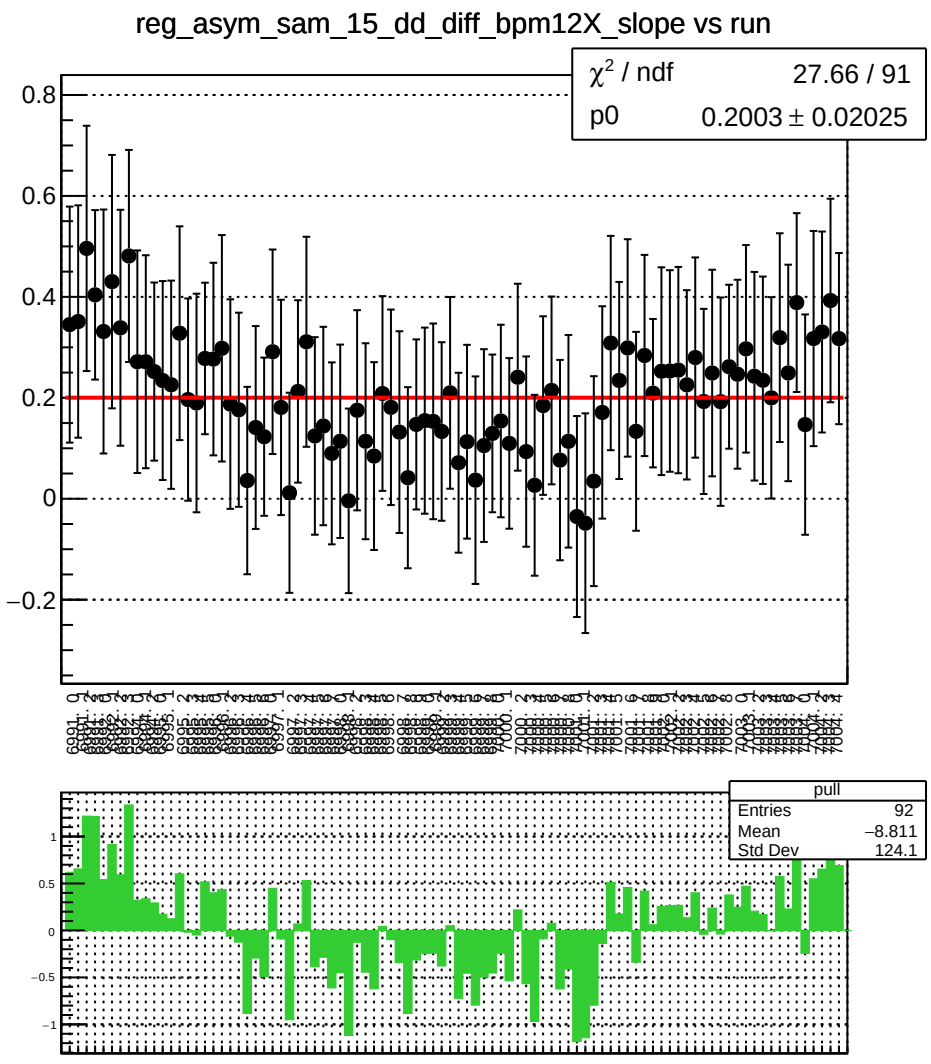

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 6.079 / 91
p0 −0.3326 ± 0.6311
pull
Entries 92
Mean 229
Std Dev 0
pull1D
Entries 92
Mean 0.002073
Std Dev 0.257

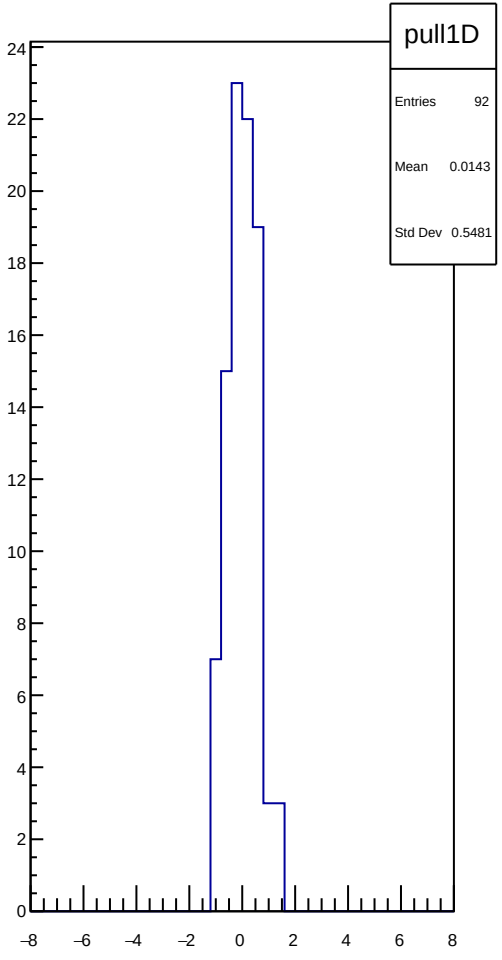

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.6 / 91
p0 −50.64 ± 0.4327
pull
Entries 92
Mean 2238
Std Dev 0

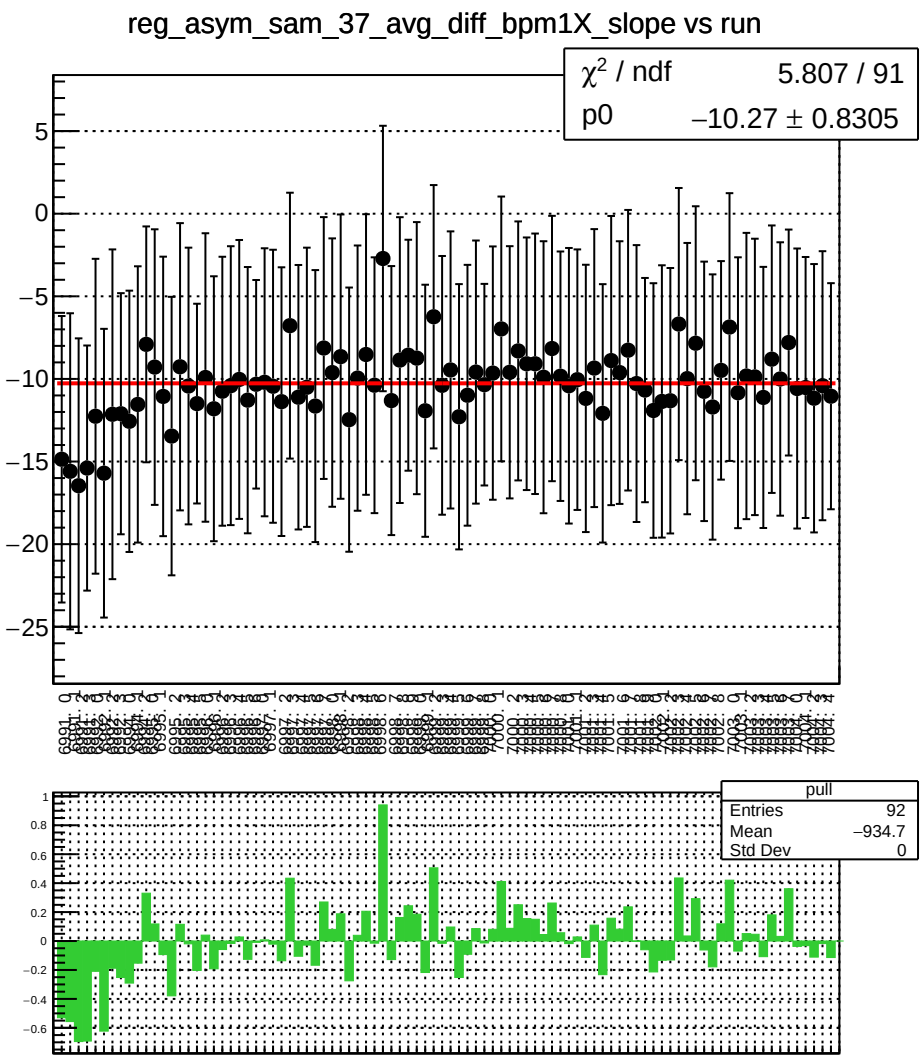

pull1D
Entries 92
Mean 0.00171
Std Dev 0.3983

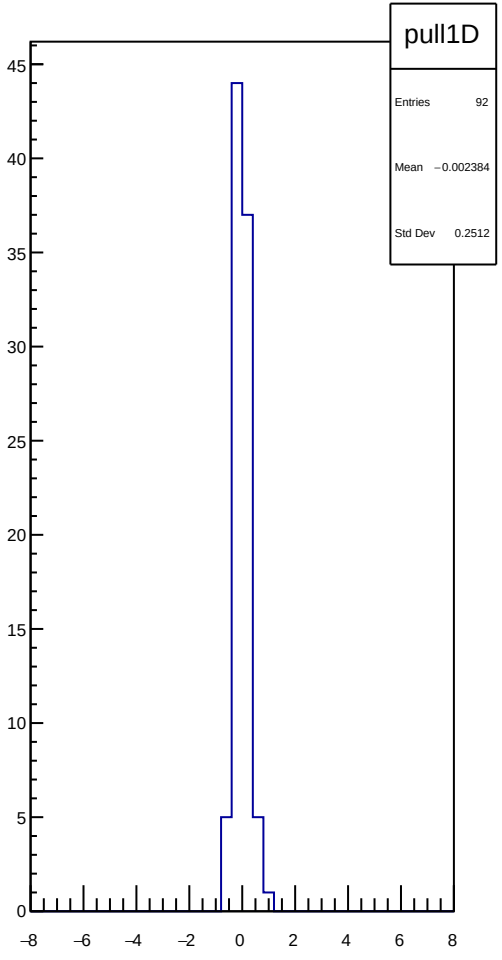

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.206 / 91
p0 −11.73 ± 0.5821
pull
Entries 92
Mean 316.5
Std Dev 0
pull1D
Entries 92
Mean −0.001479
Std Dev 0.2597

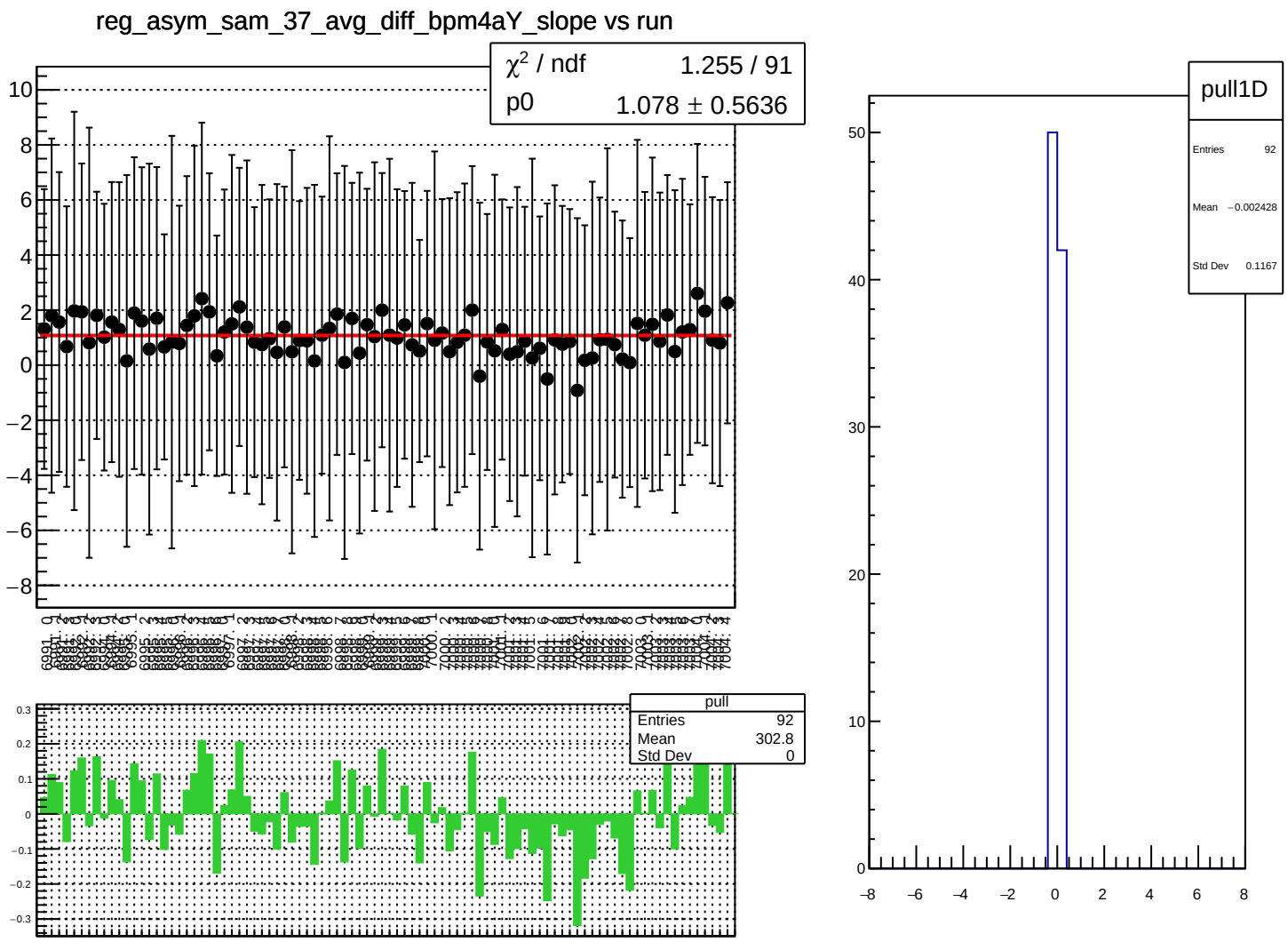

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.89 / 91
p0 −43.81 ± 0.454
−35
−40
−45
−50
−55
pull
Entries 92
Mean −683.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.005881
Std Dev 0.4649
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

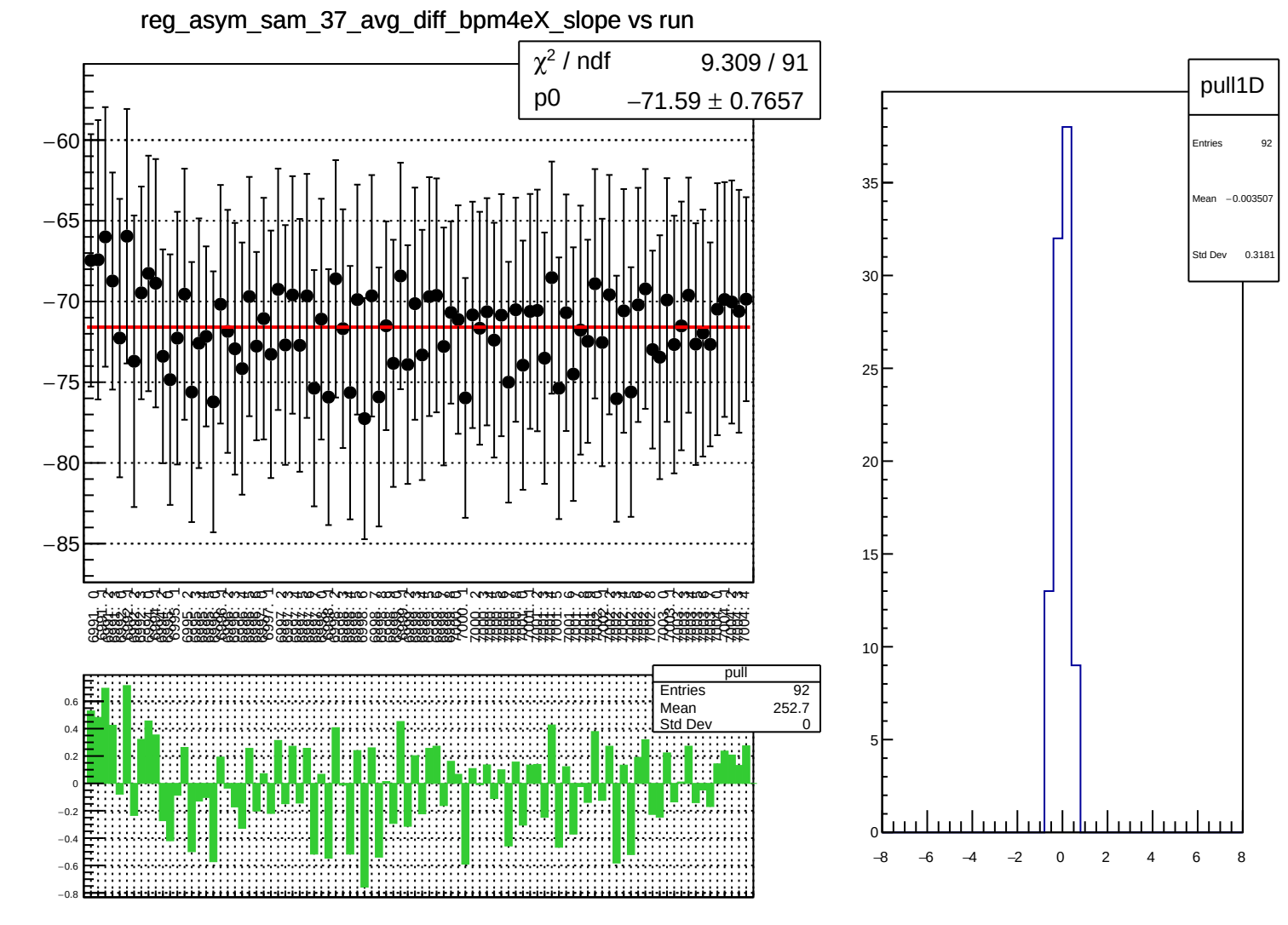

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 27.66 / 91
p0 0.2003 ± 0.02025
0.8
0.6
0.4
0.2
0
−0.2
pull
Entries 92
Mean −8.811
Std Dev 124.1
1
0.5
0
−0.5
−1

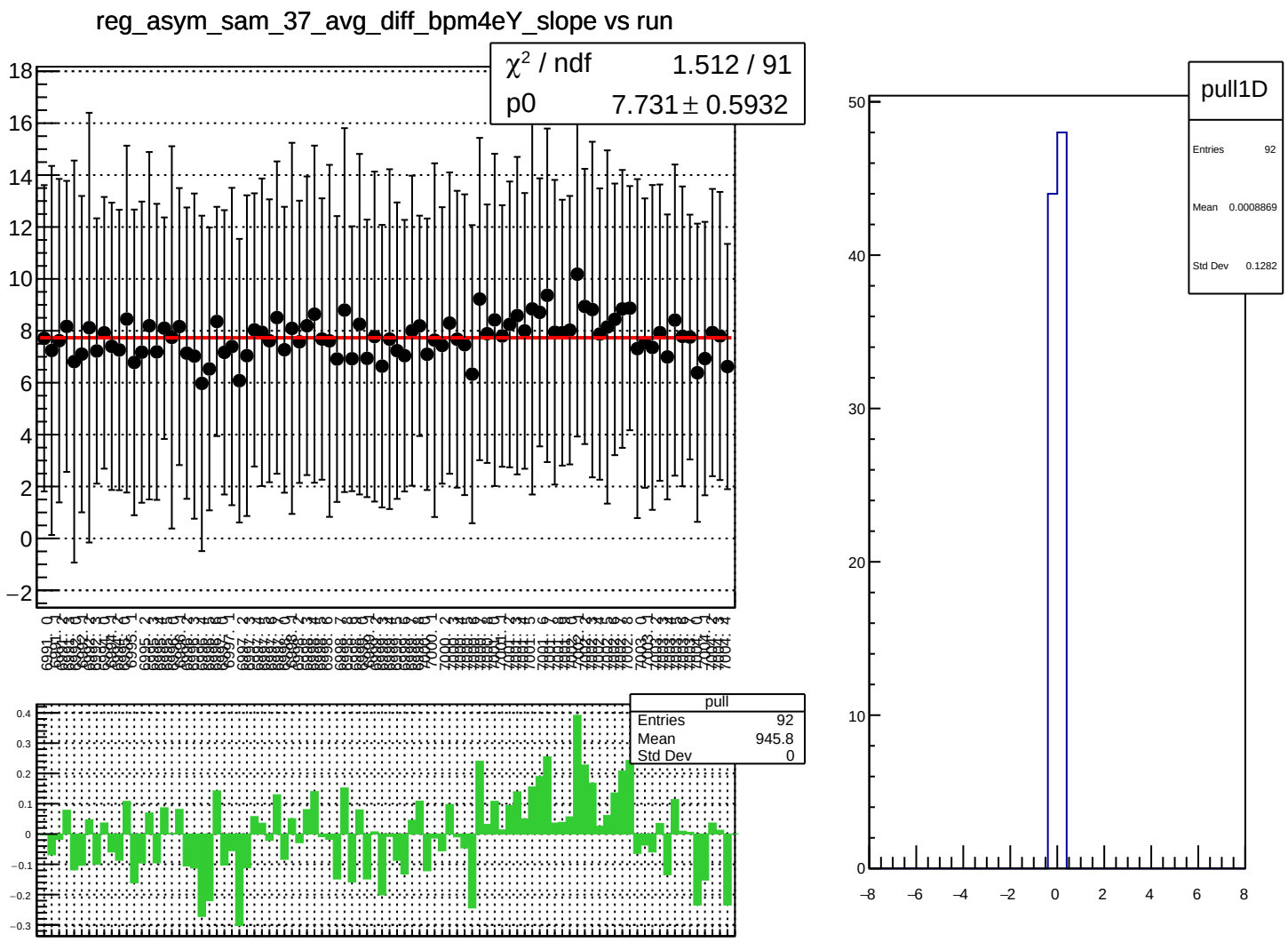

pull1D
Entries 92
Mean 0.0143
Std Dev 0.5481
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

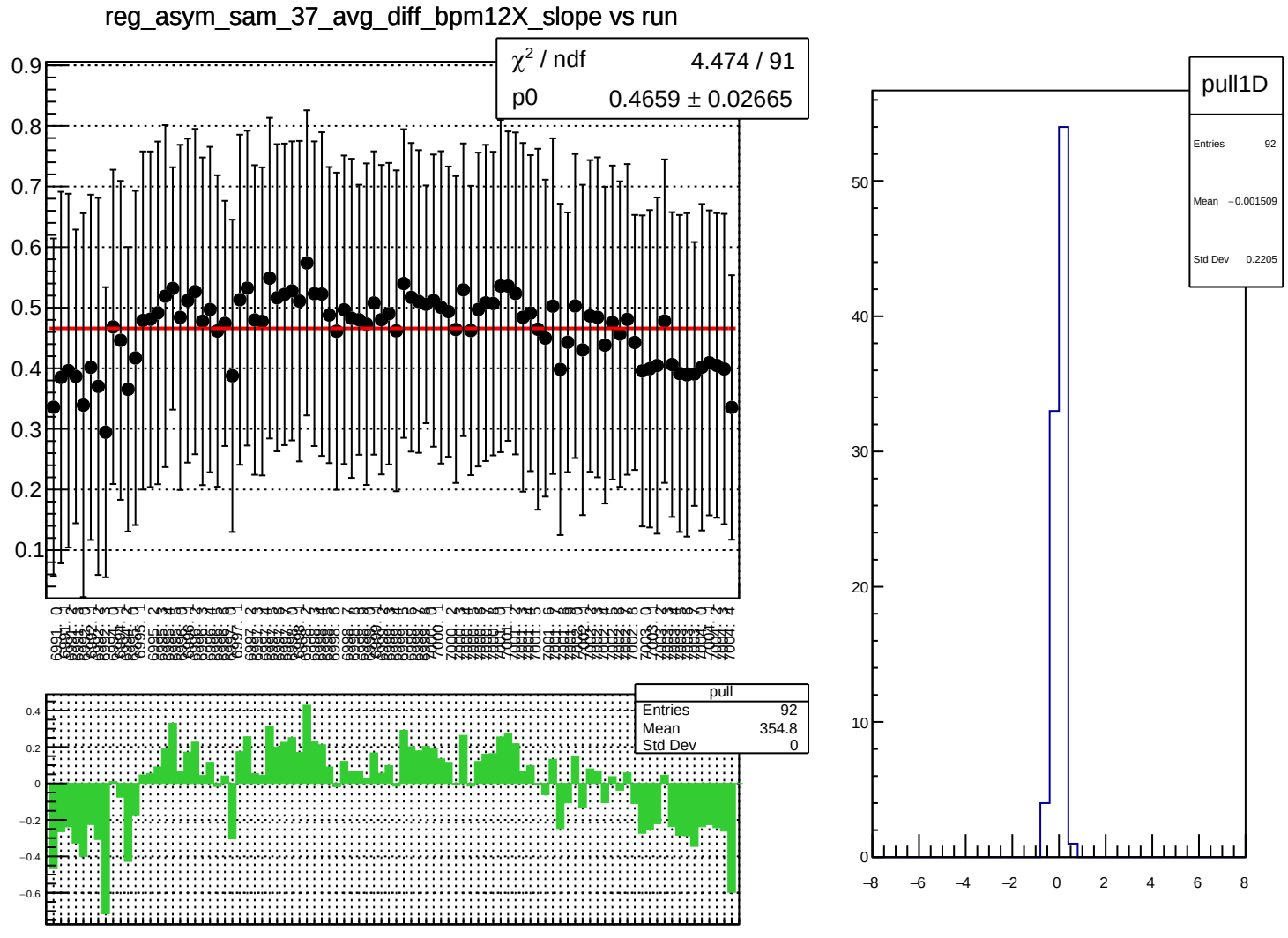

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 5.807 / 91
p0 −10.27 ± 0.8305
pull
Entries 92
Mean −934.7
Std Dev 0

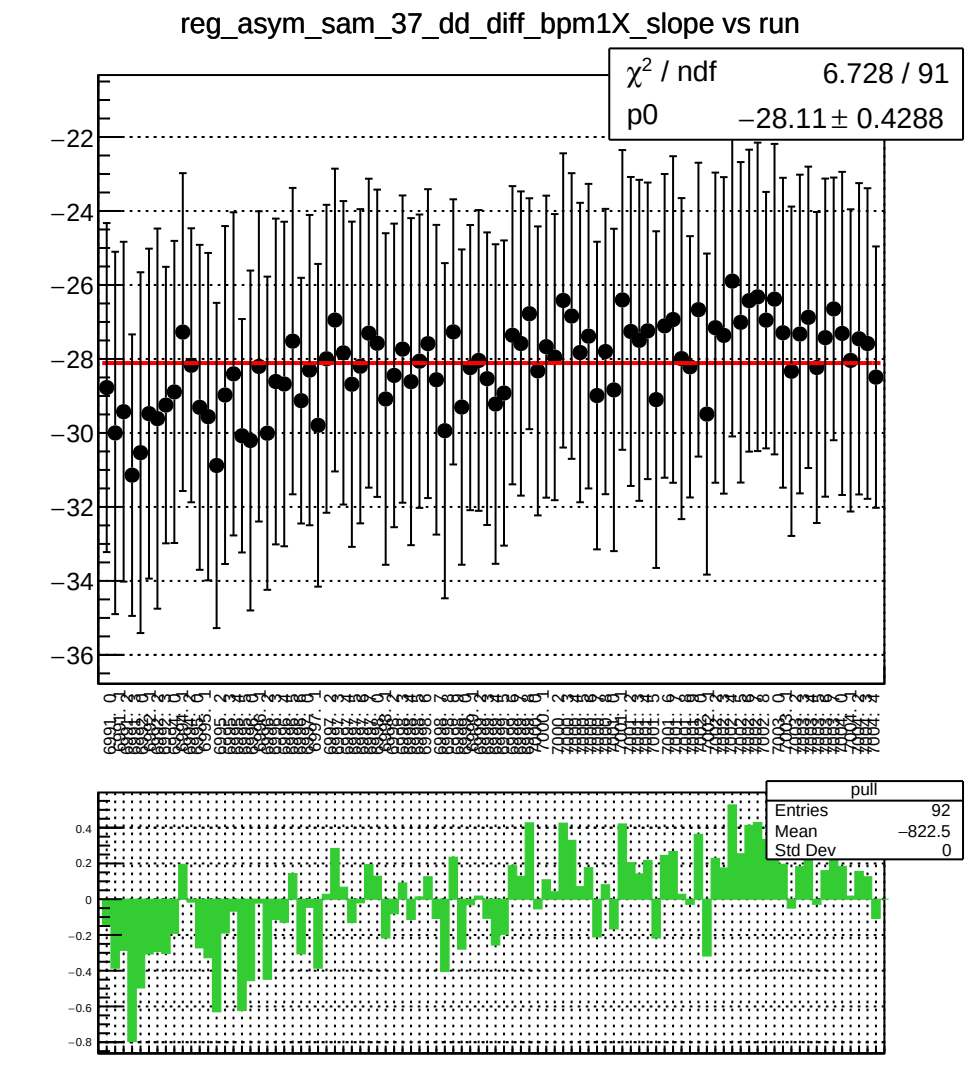

pull1D
Entries 92
Mean −0.002384
Std Dev 0.2512

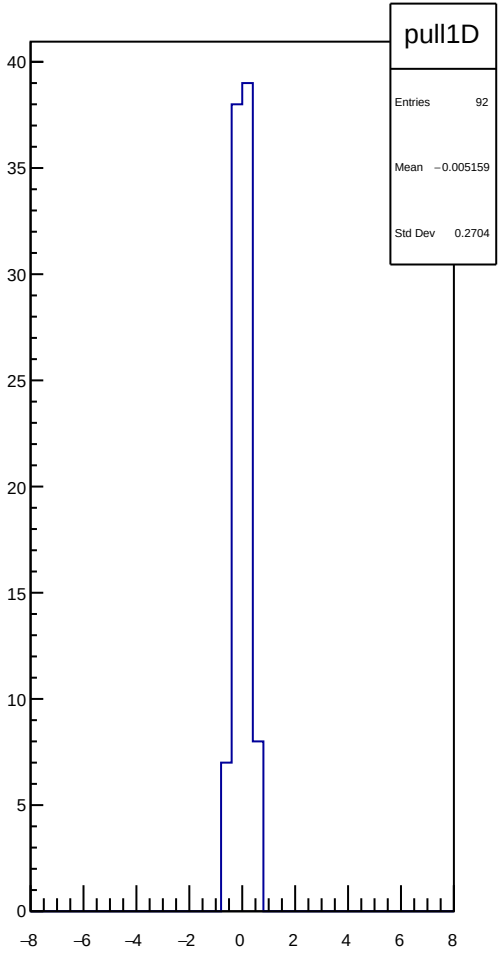

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.255 / 91
p0 1.078 ± 0.5636
pull
Entries 92
Mean 302.8
Std Dev 0
pull1D
Entries 92
Mean −0.002428
Std Dev 0.1167

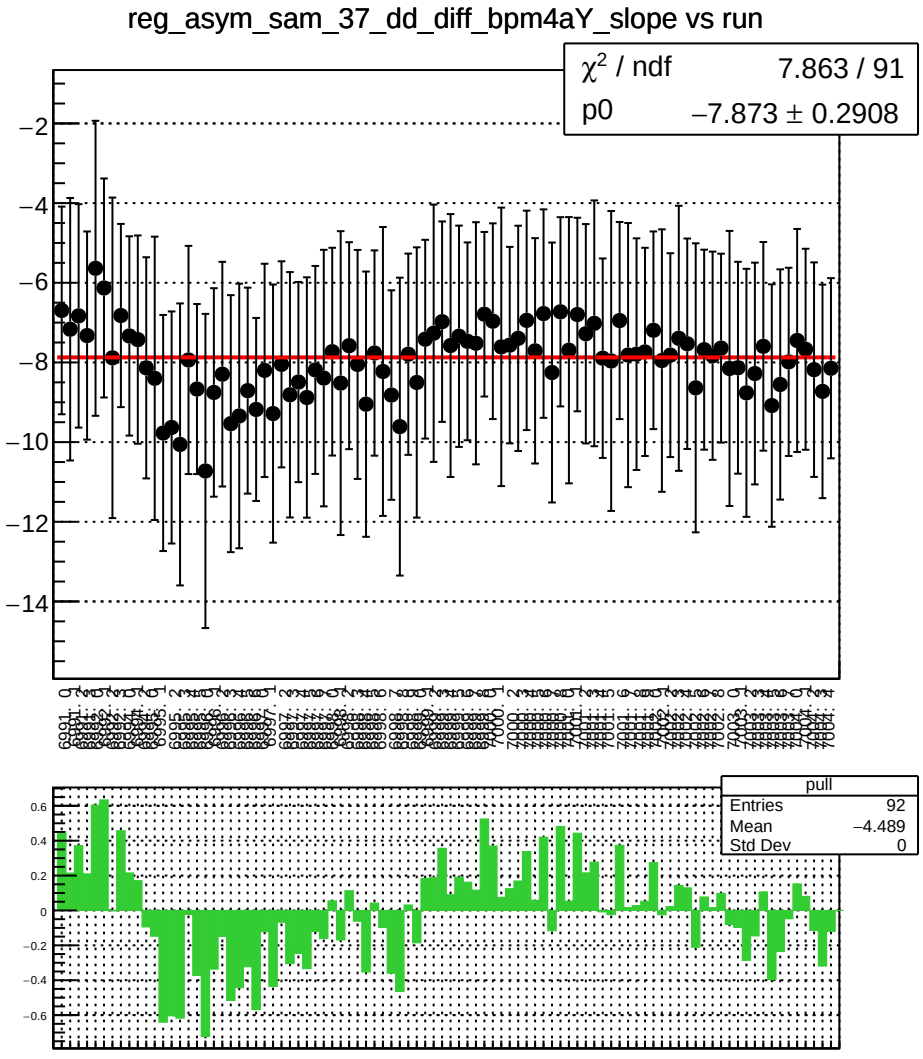

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.309 / 91
p0 −71.59 ± 0.7657
pull
Entries 92
Mean 252.7
Std Dev 0
pull1D
Entries 92
Mean −0.003507
Std Dev 0.3181

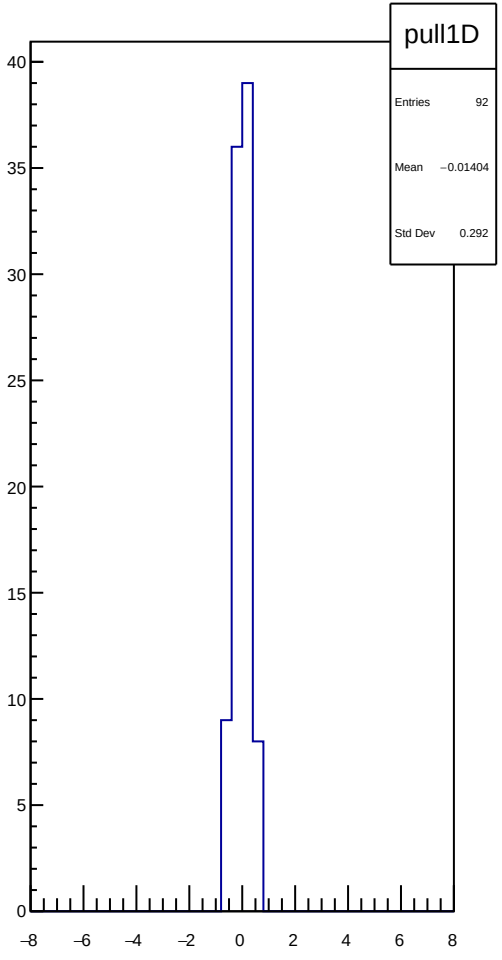

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.512 / 91
p0 7.731 ± 0.5932
pull
Entries 92
Mean 945.8
Std Dev 0
pull1D
Entries 92
Mean 0.0008869
Std Dev 0.1282

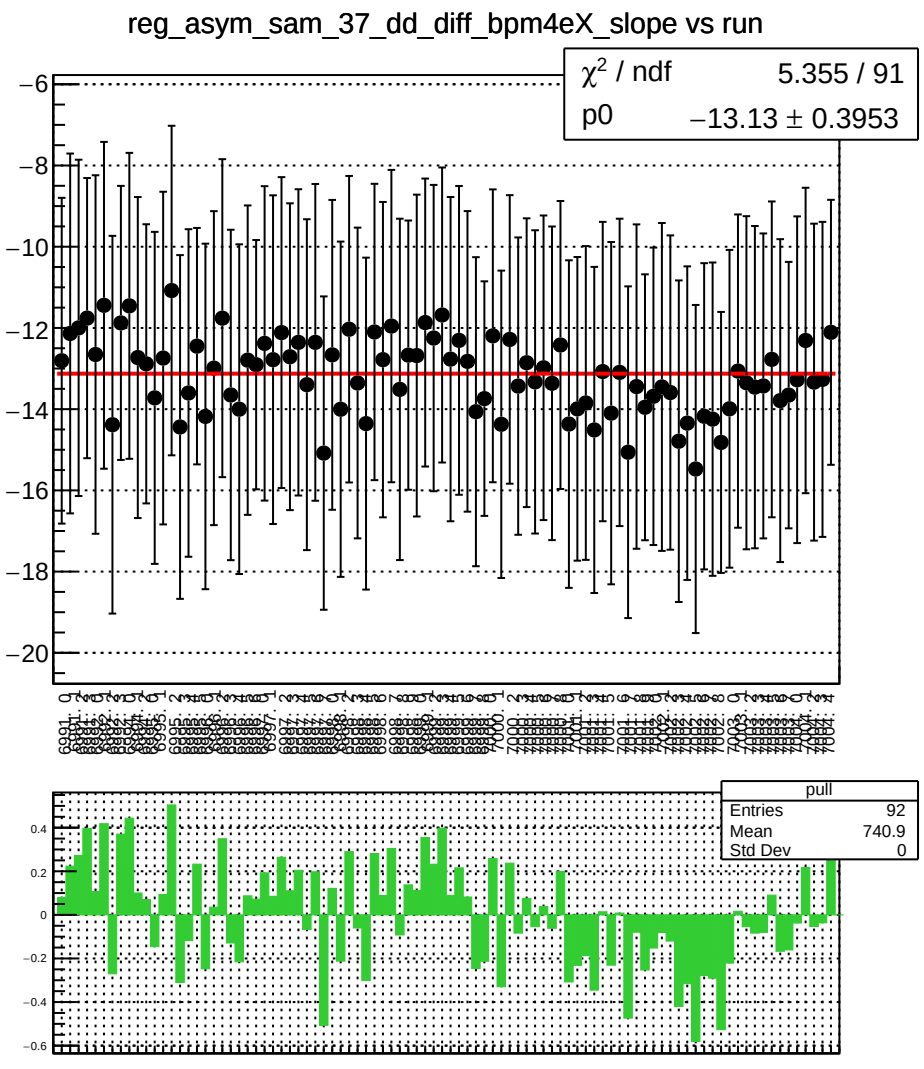

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.474 / 91
p0 0.4659 ± 0.02665
pull
Entries 92
Mean 354.8
Std Dev 0
pull1D
Entries 92
Mean −0.001509
Std Dev 0.2205

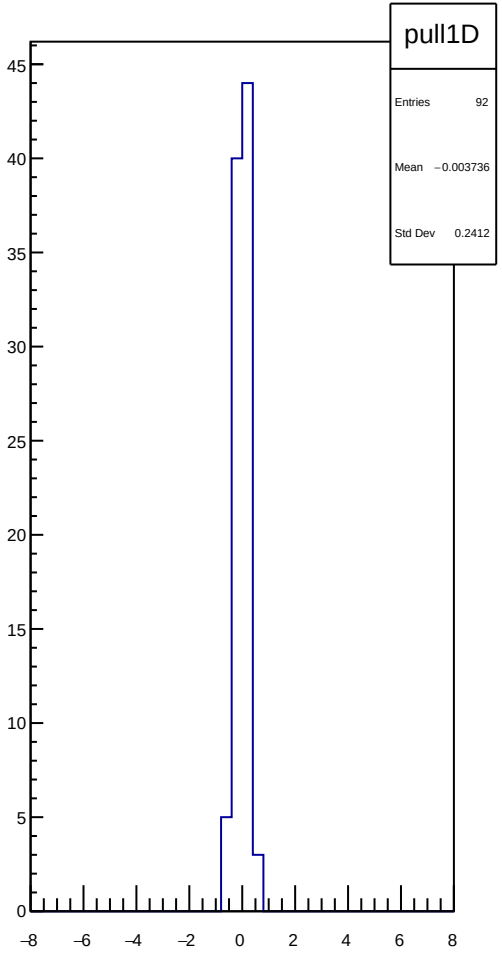

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 6.728 / 91
p0 −28.11 ± 0.4288
pull
Entries 92
Mean −822.5
Std Dev 0

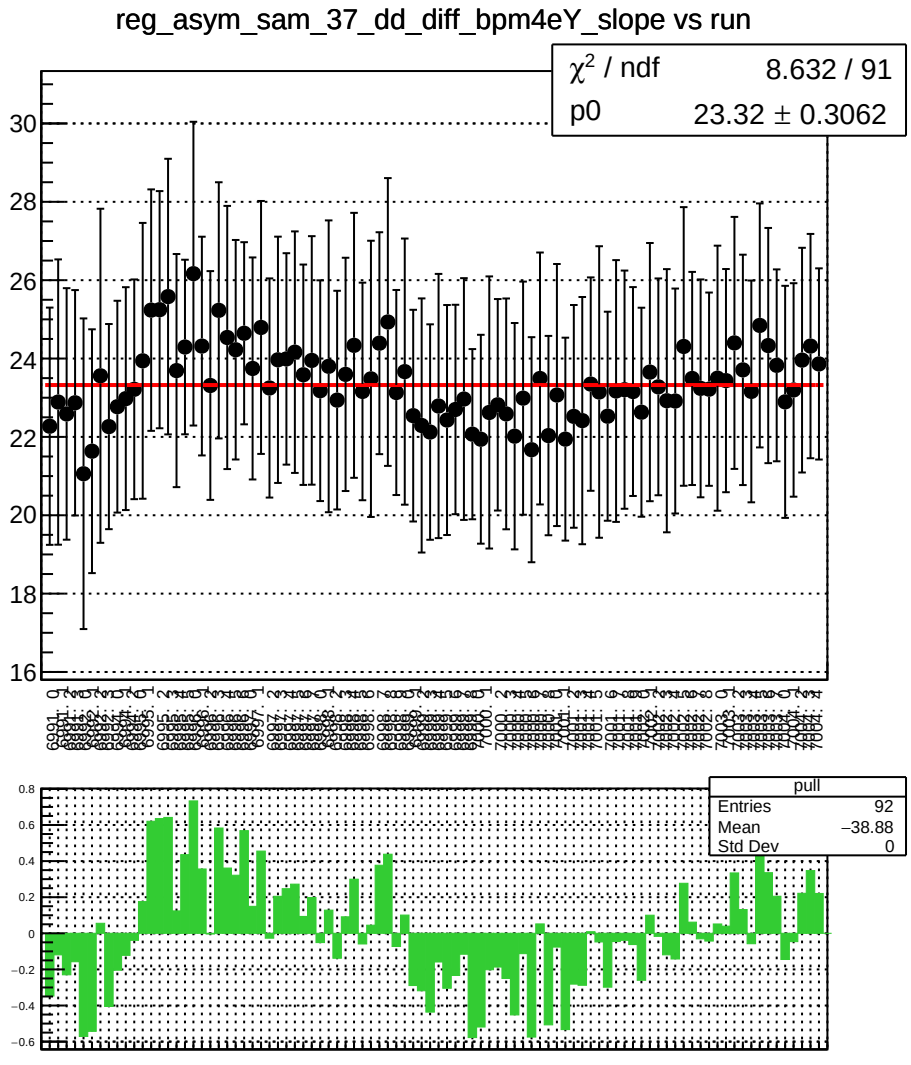

pull1D
Entries 92
Mean −0.005159
Std Dev 0.2704

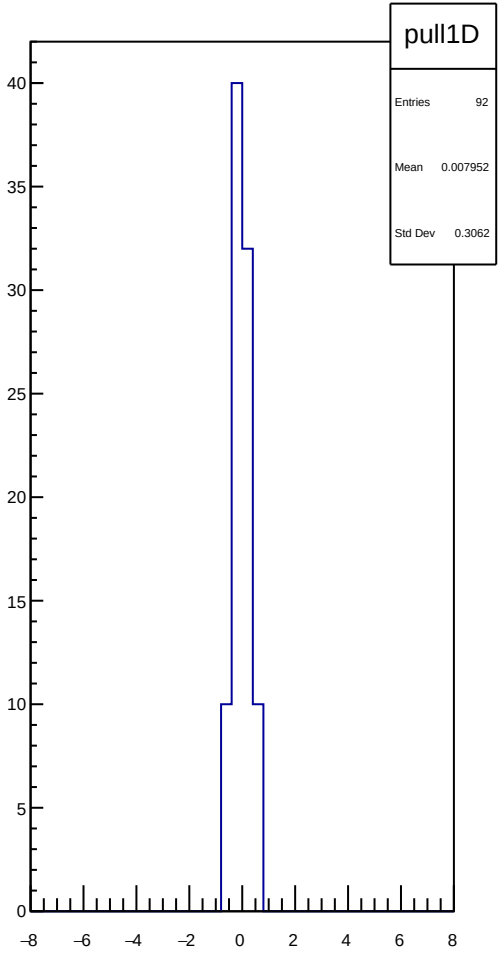

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.863 / 91
p0 −7.873 ± 0.2908
pull
Entries 92
Mean −4.489
Std Dev 0

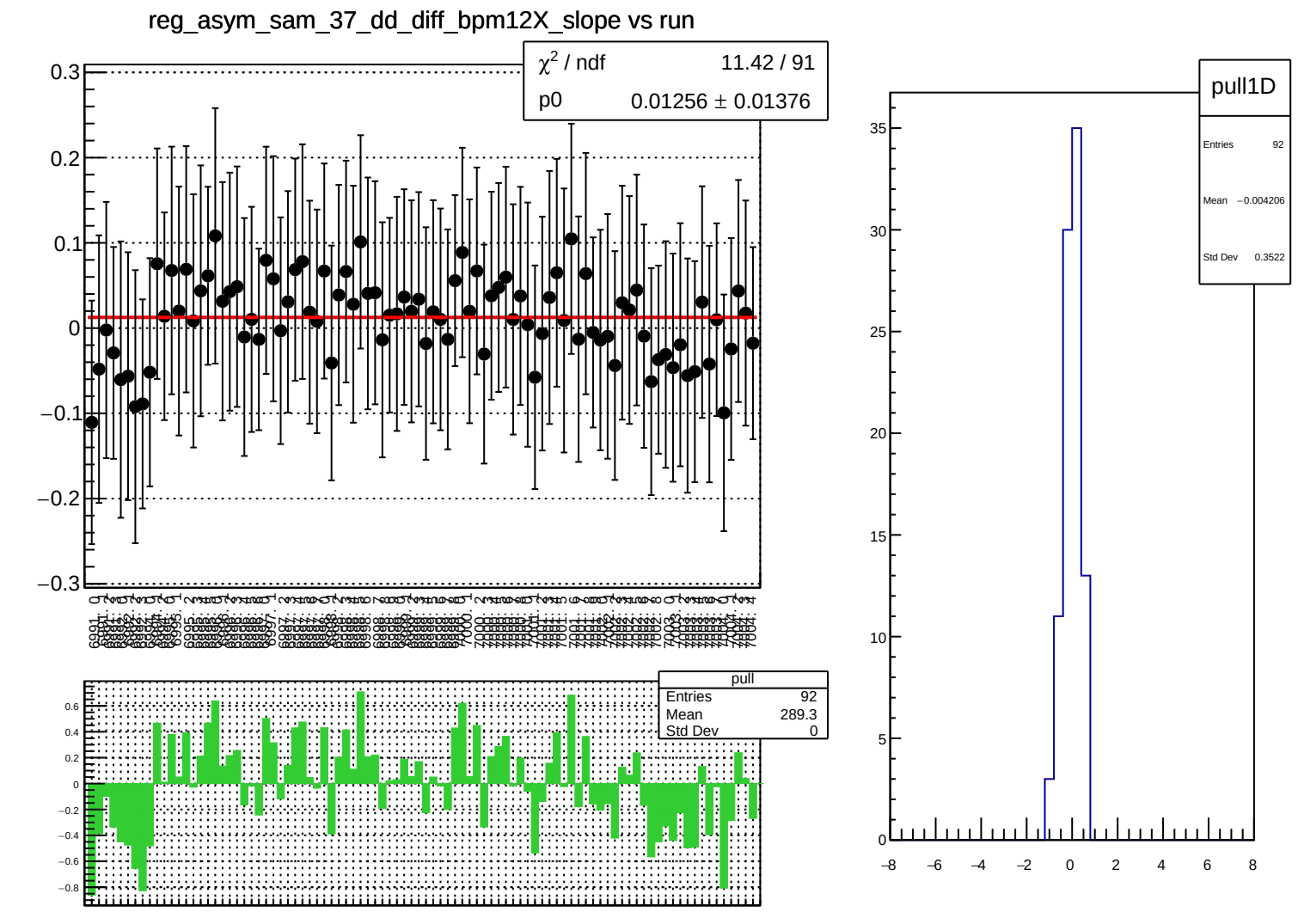

pull1D
Entries 92
Mean −0.01404
Std Dev 0.292

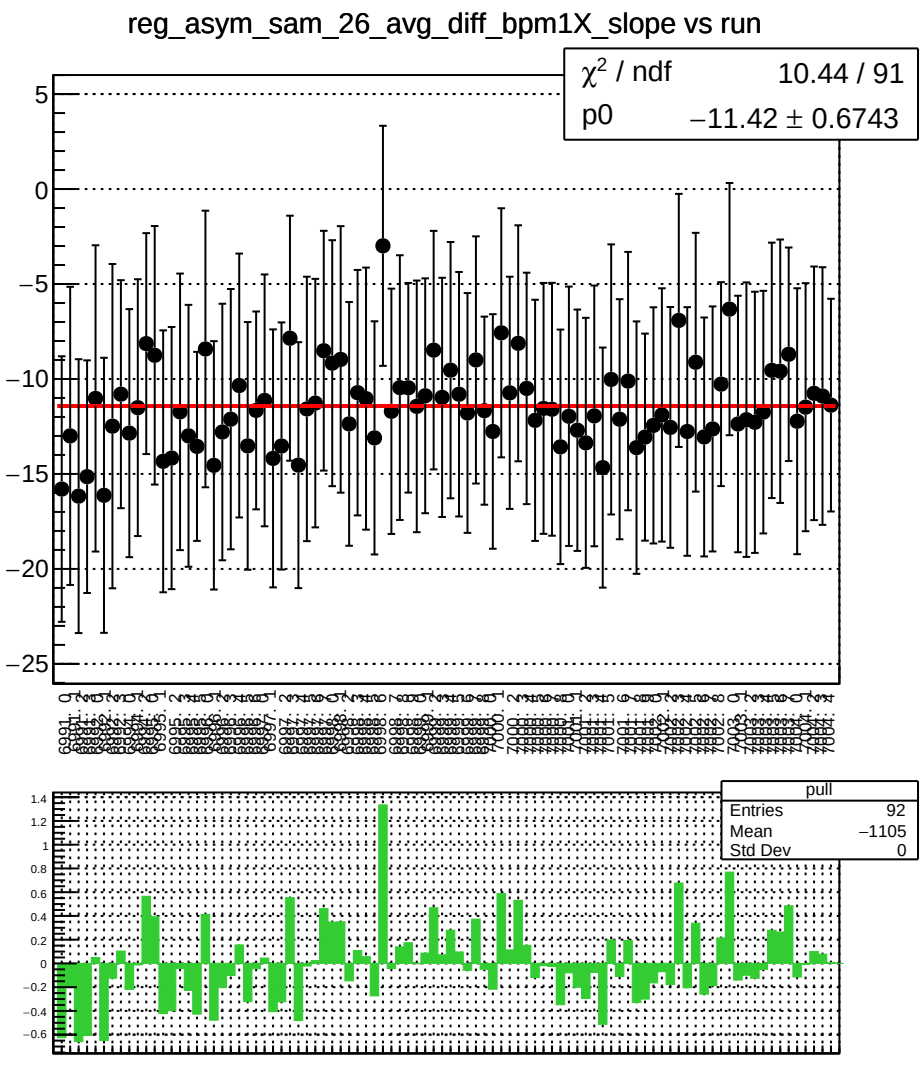

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.355 / 91
p0 −13.13 ± 0.3953
pull
Entries 92
Mean 740.9
Std Dev 0

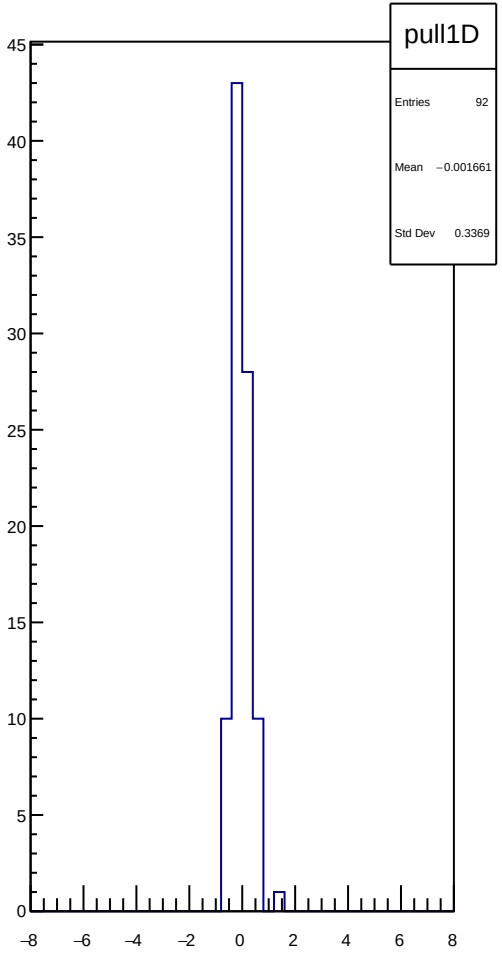

pull1D
Entries 92
Mean −0.003736
Std Dev 0.2412

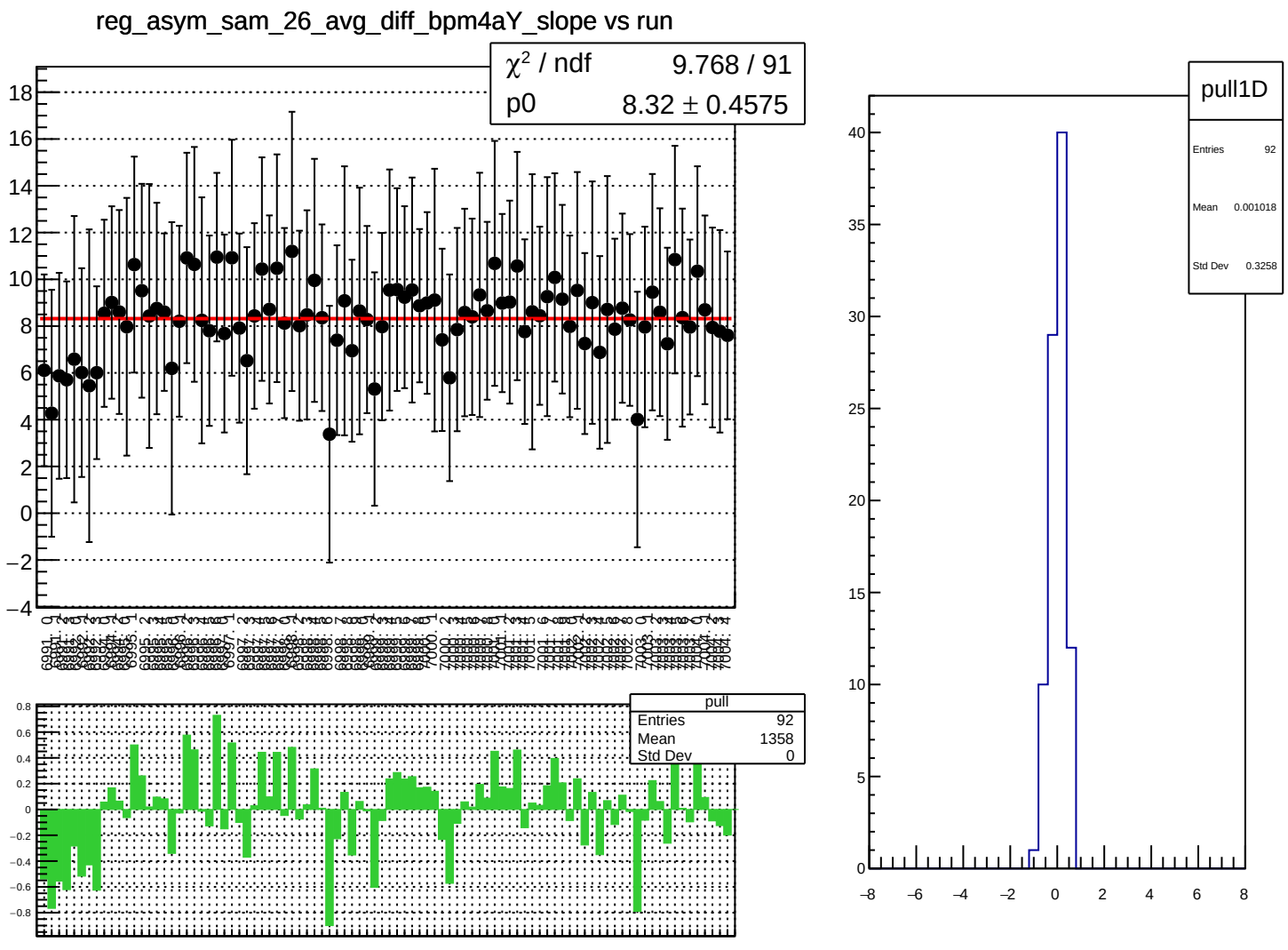

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.632 / 91
p0 23.32 ± 0.3062
pull
Entries 92
Mean −38.88
Std Dev 0

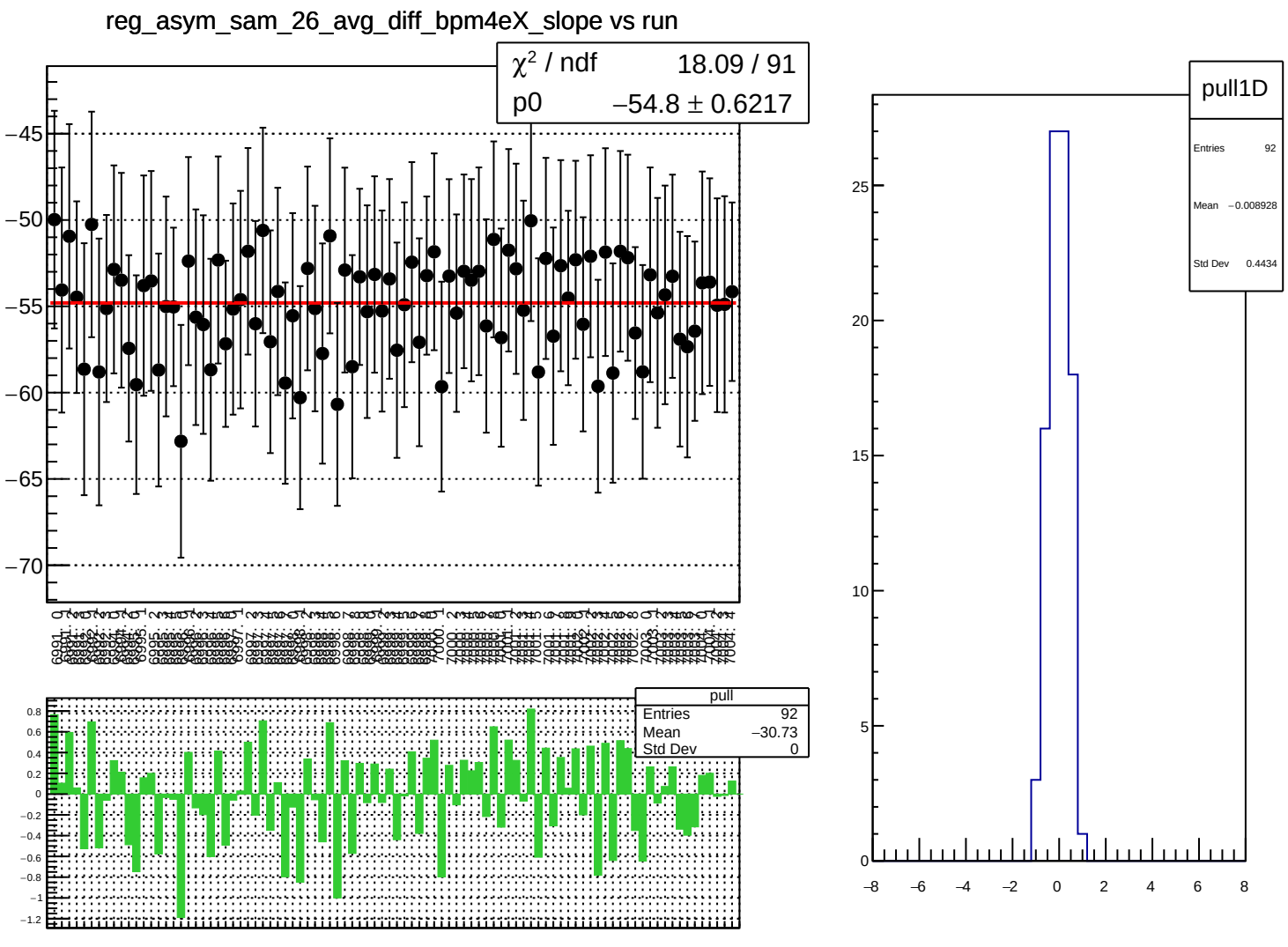

pull1D
Entries 92
Mean 0.007952
Std Dev 0.3062

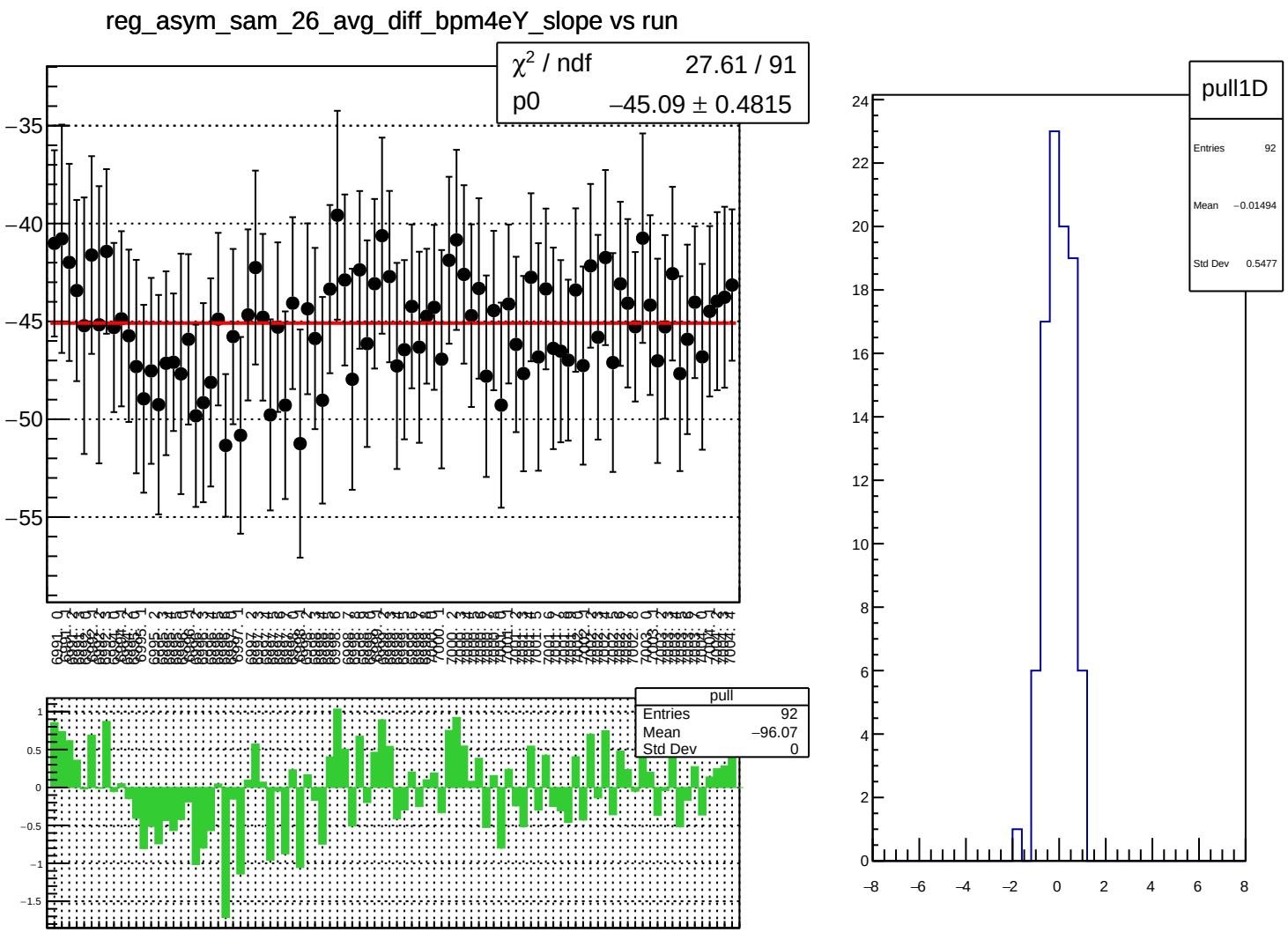

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 11.42 / 91
p0 0.01256 ± 0.01376
pull
Entries 92
Mean 289.3
Std Dev 0
pull1D
Entries 92
Mean −0.004206
Std Dev 0.3522

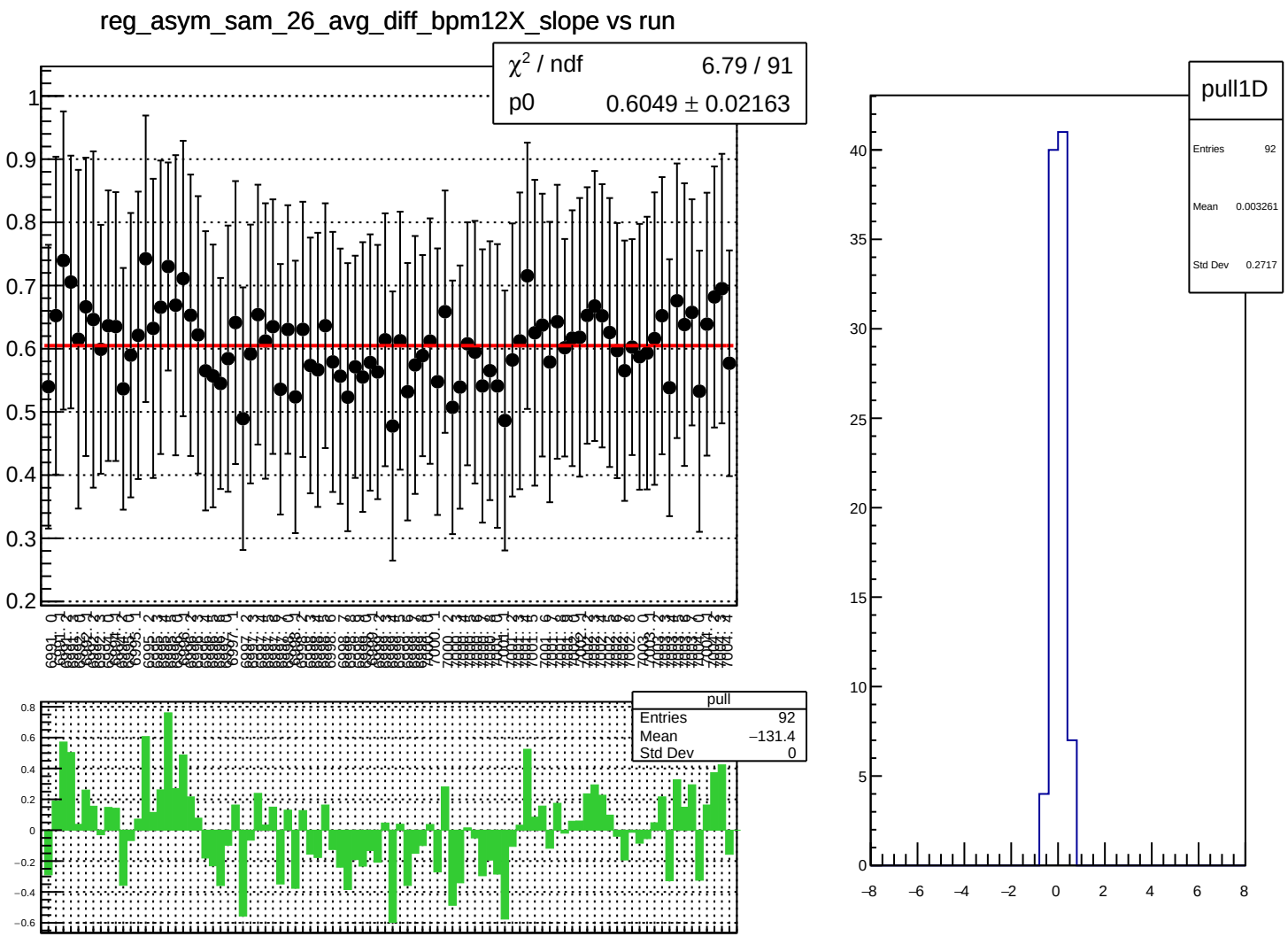

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 10.44 / 91
p0 −11.42 ± 0.6743
pull
Entries 92
Mean −1105
Std Dev 0

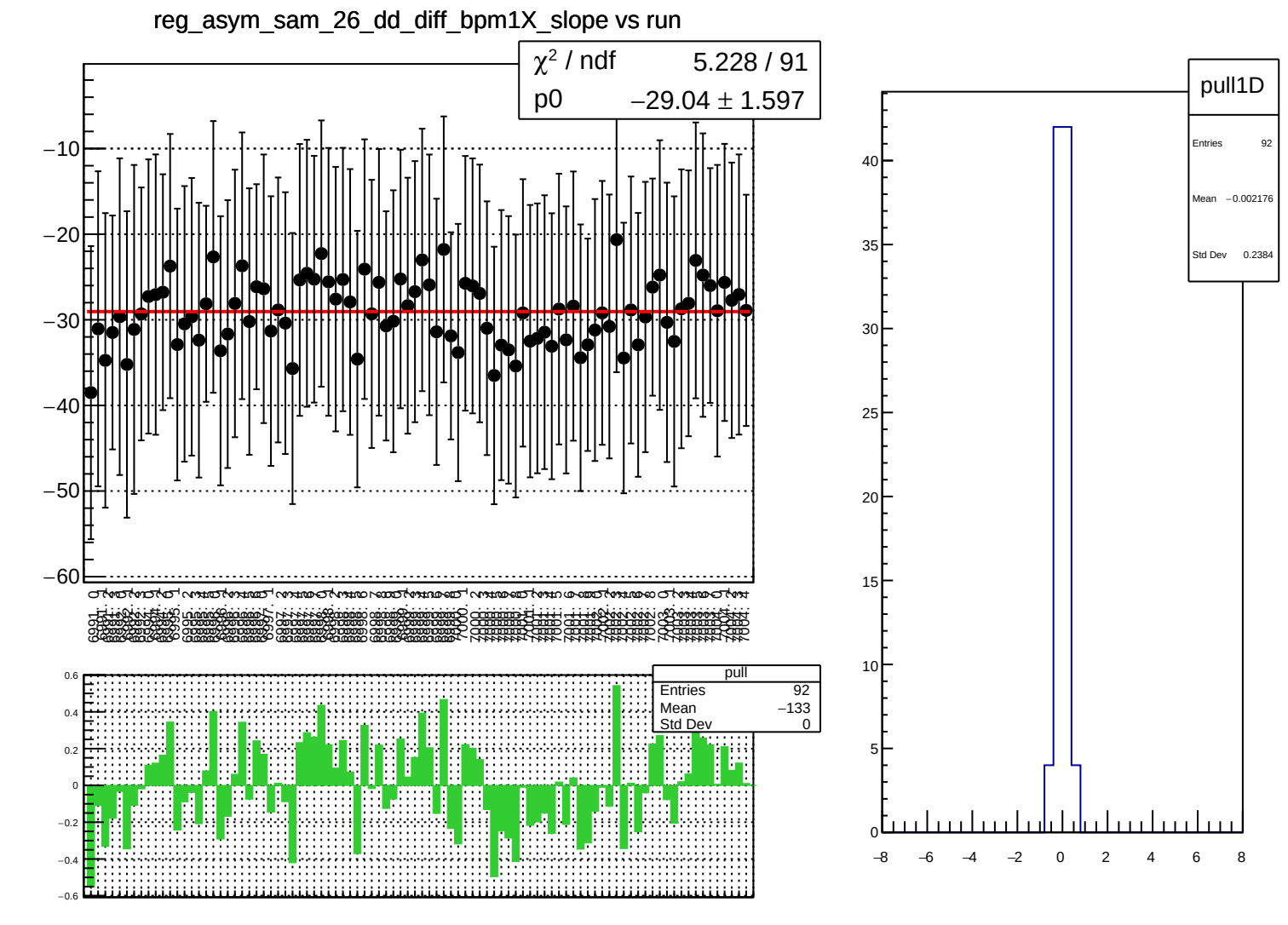

pull1D
Entries 92
Mean −0.001661
Std Dev 0.3369

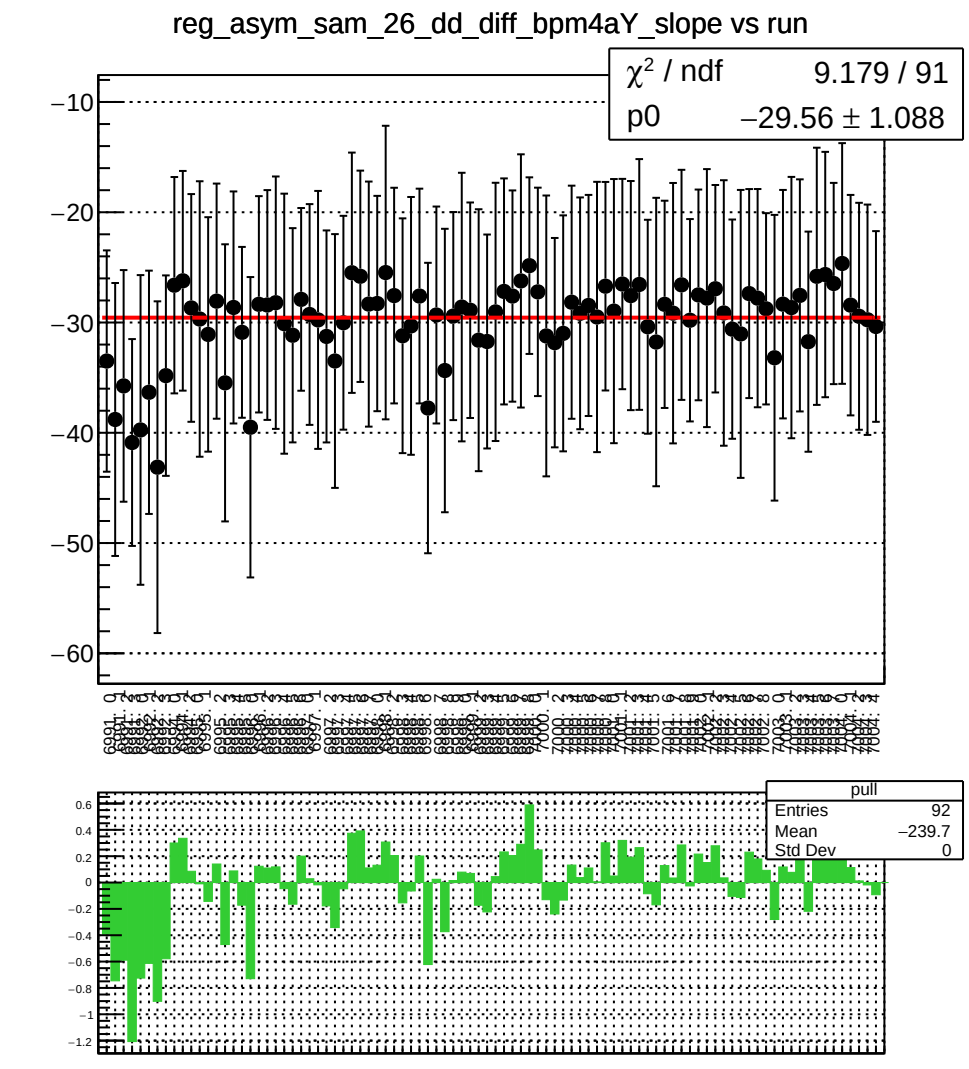

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.768 / 91
p0 8.32 ± 0.4575
pull
Entries 92
Mean 1358
Std Dev 0
pull1D
Entries 92
Mean 0.001018
Std Dev 0.3258

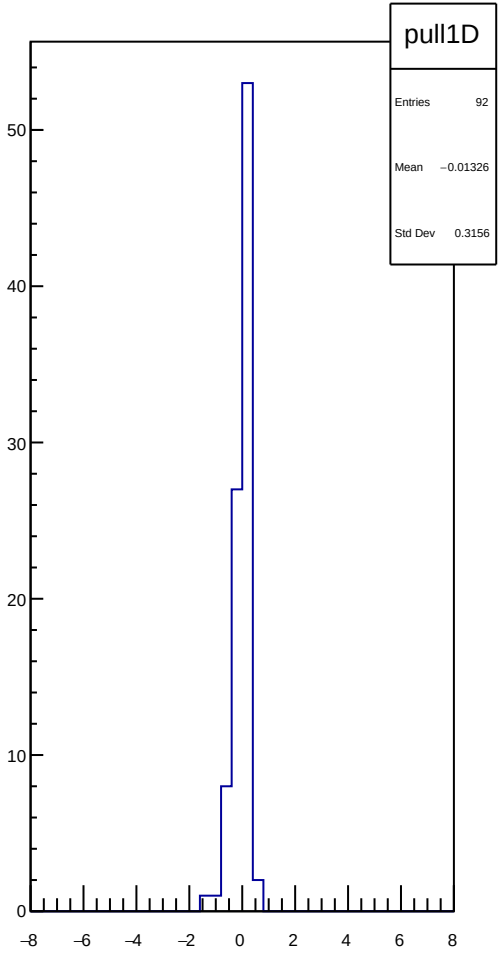

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.09 / 91
p0 −54.8 ± 0.6217
pull
Entries 92
Mean −30.73
Std Dev 0
pull1D
Entries 92
Mean −0.008928
Std Dev 0.4434

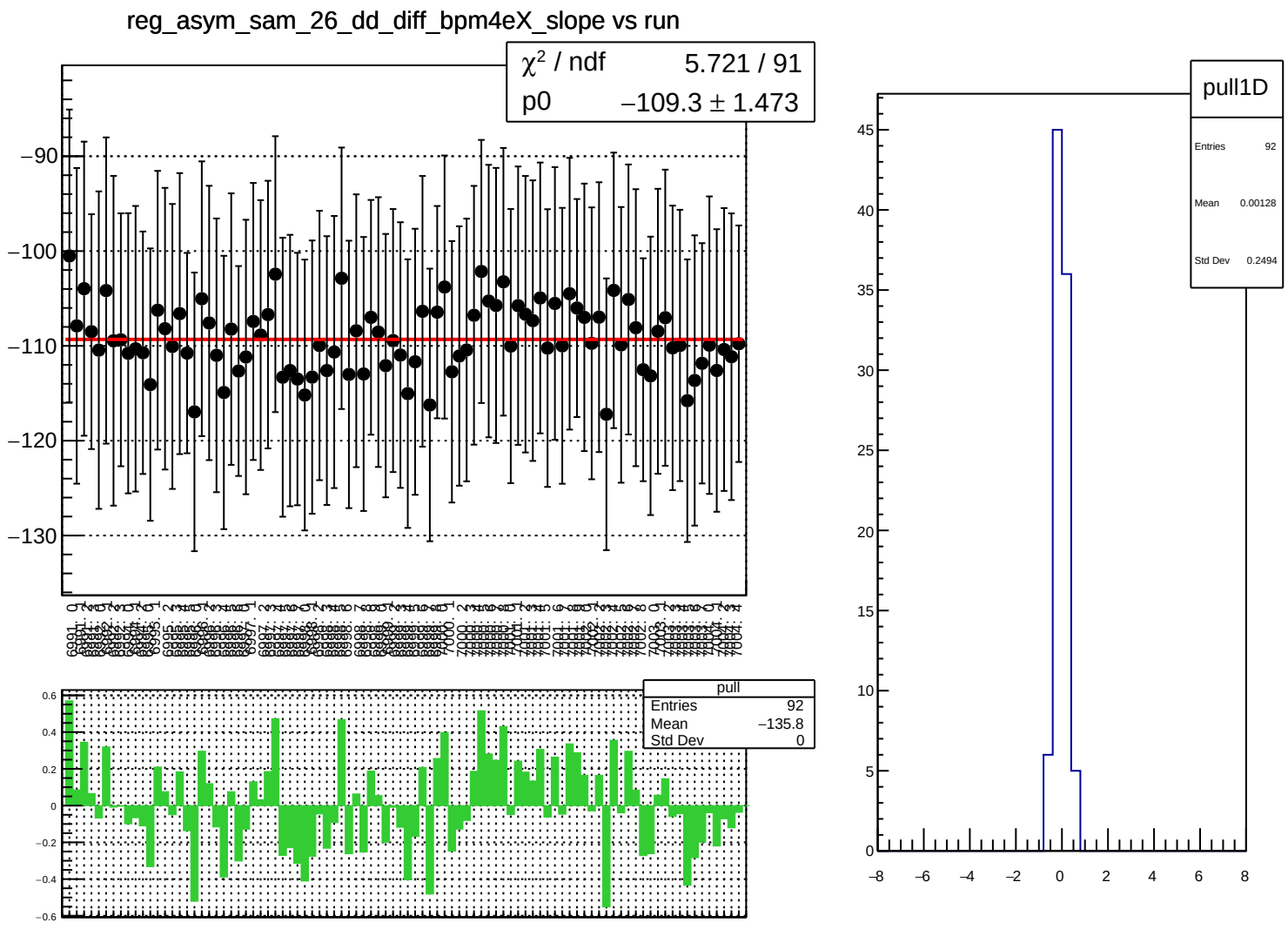

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.61 / 91
p0 −45.09 ± 0.4815
−35
−40
−45
−50
−55
pull
Entries 92
Mean −96.07
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.01494
Std Dev 0.5477
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

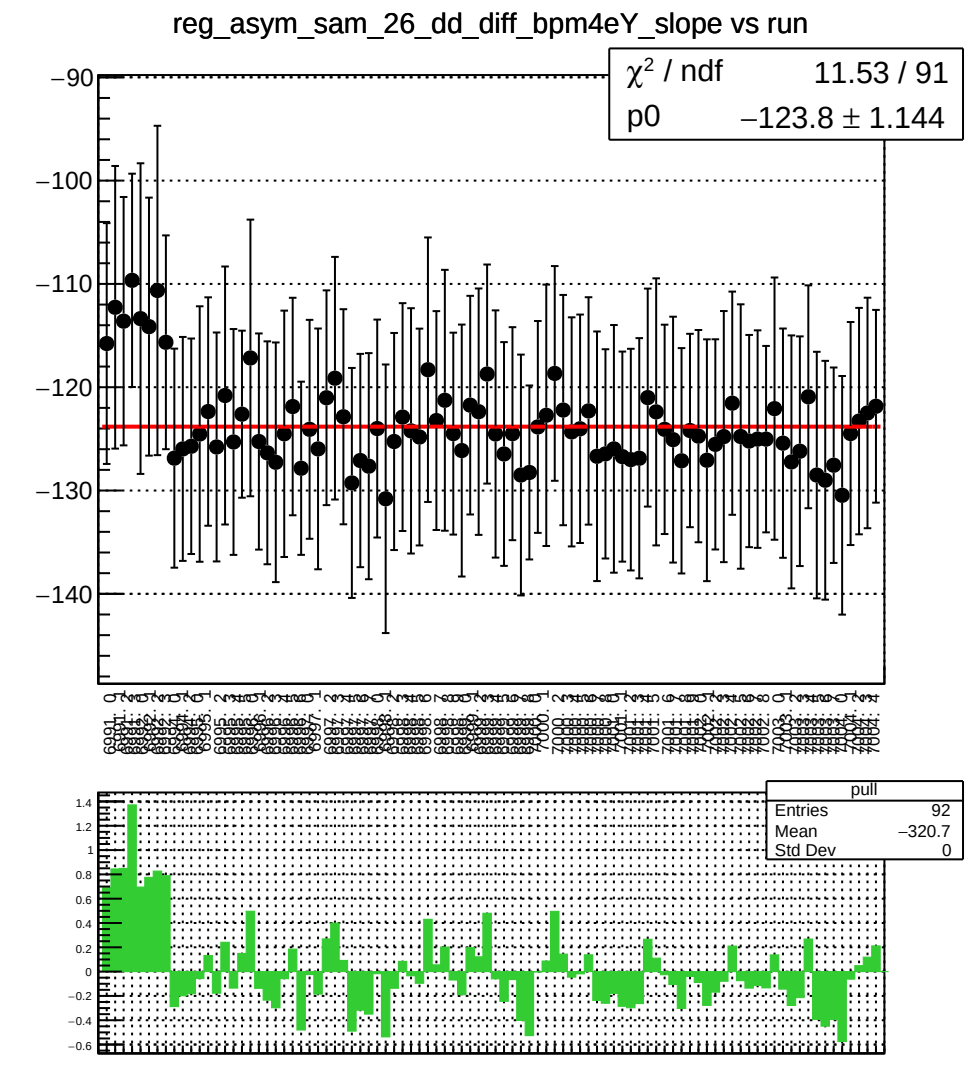

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 6.79 / 91
p0 0.6049 ± 0.02163
pull
Entries 92
Mean −131.4
Std Dev 0
pull1D
Entries 92
Mean 0.003261
Std Dev 0.2717

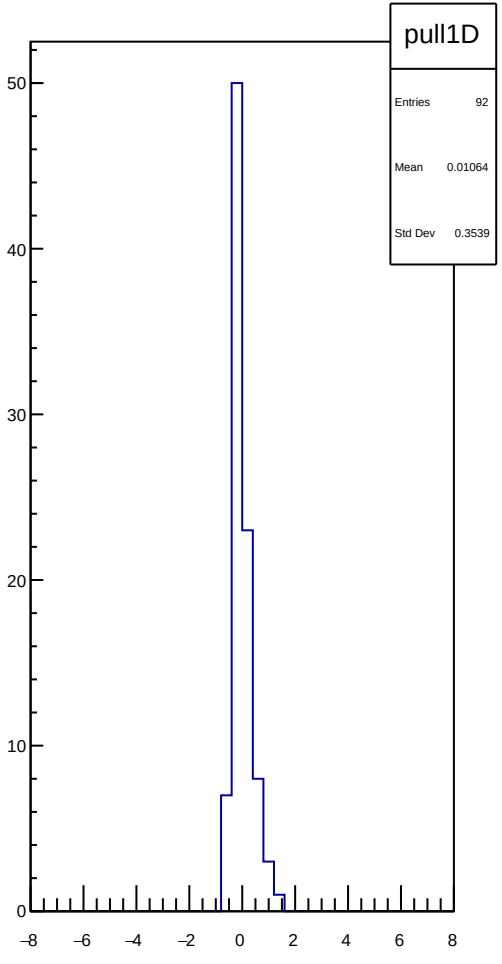

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 5.228 / 91
p0 −29.04 ± 1.597
pull
Entries 92
Mean −133
Std Dev 0
pull1D
Entries 92
Mean −0.002176
Std Dev 0.2384

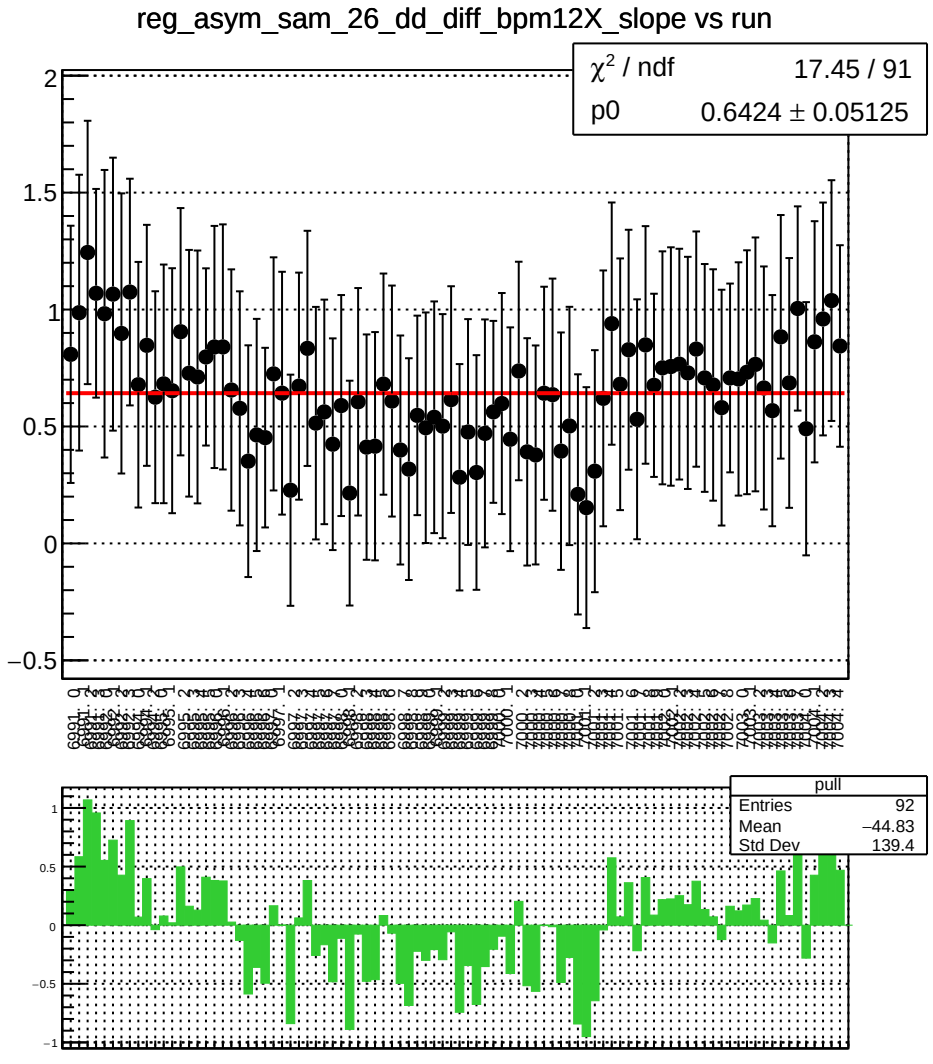

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.179 / 91
p0 −29.56 ± 1.088
pull
Entries 92
Mean −239.7
Std Dev 0

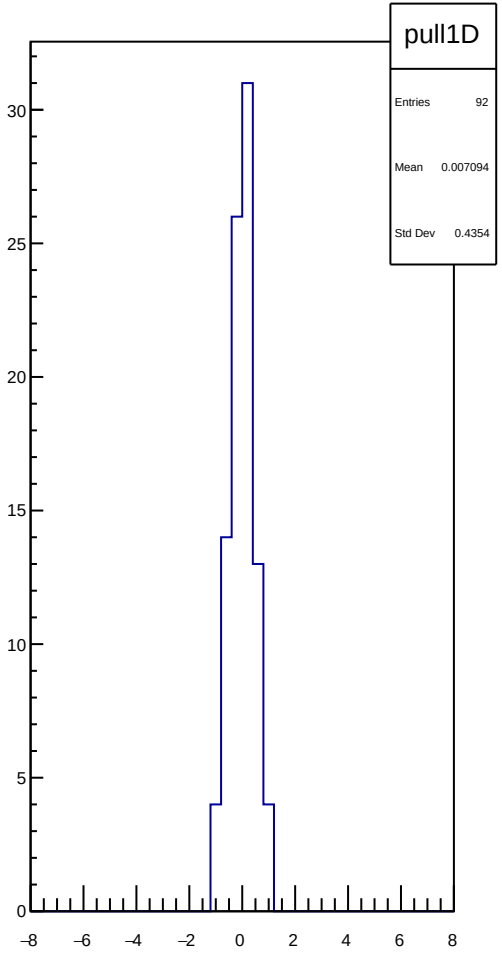

pull1D
Entries 92
Mean −0.01326
Std Dev 0.3156

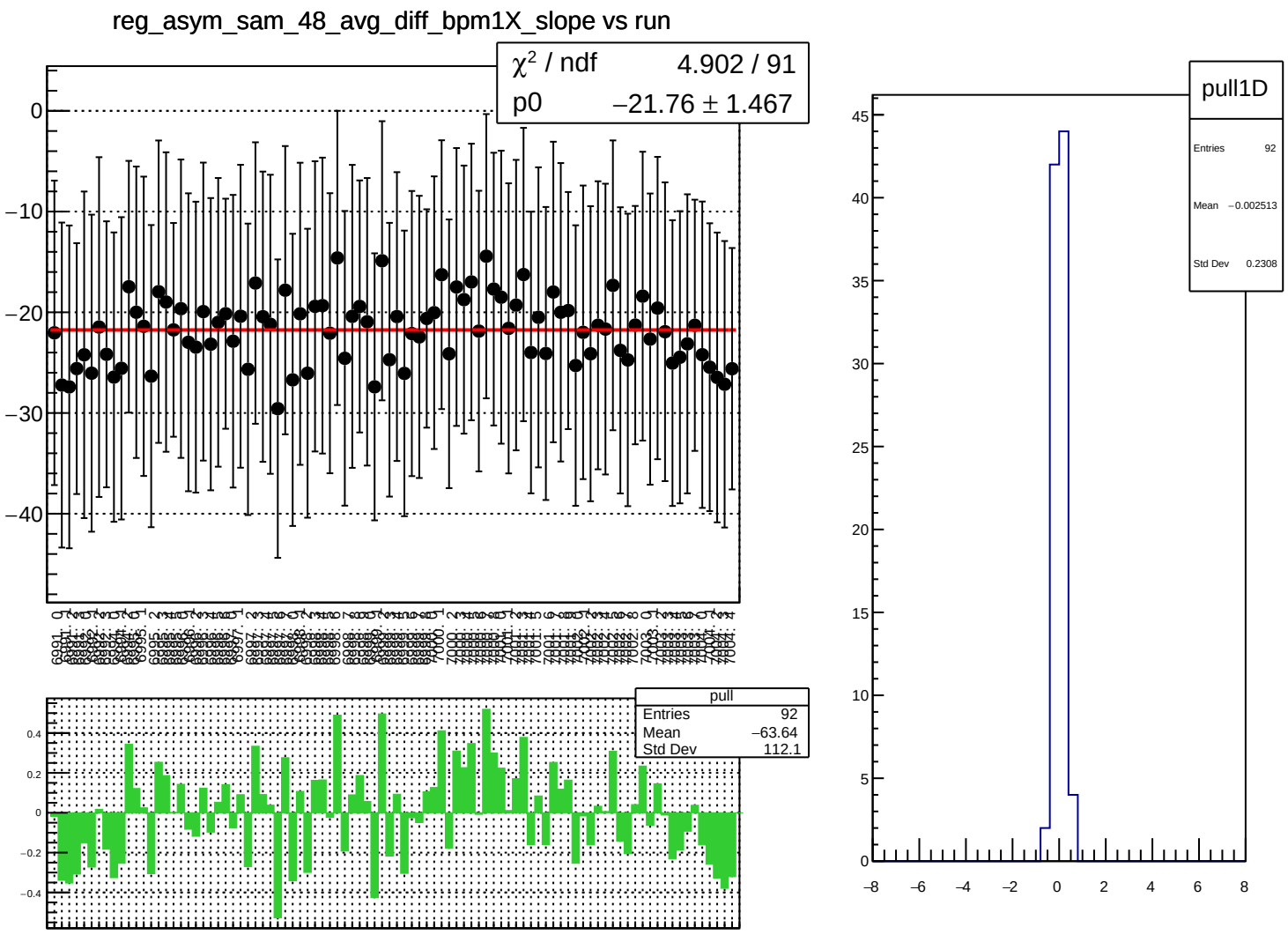

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.721 / 91
p0 −109.3 ± 1.473
−90
−100
−110
−120
−130
pull
Entries 92
Mean −135.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.00128
Std Dev 0.2494
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

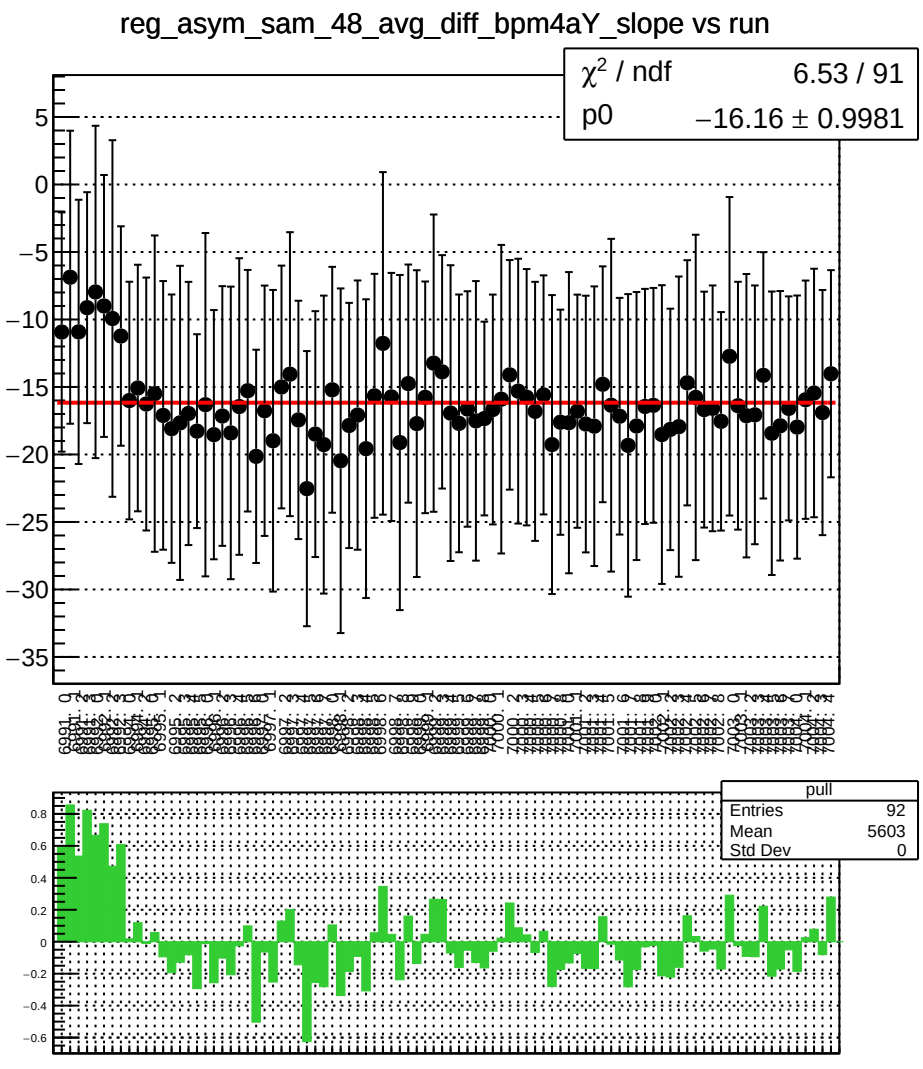

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.53 / 91
p0 −123.8 ± 1.144
pull
Entries 92
Mean −320.7
Std Dev 0

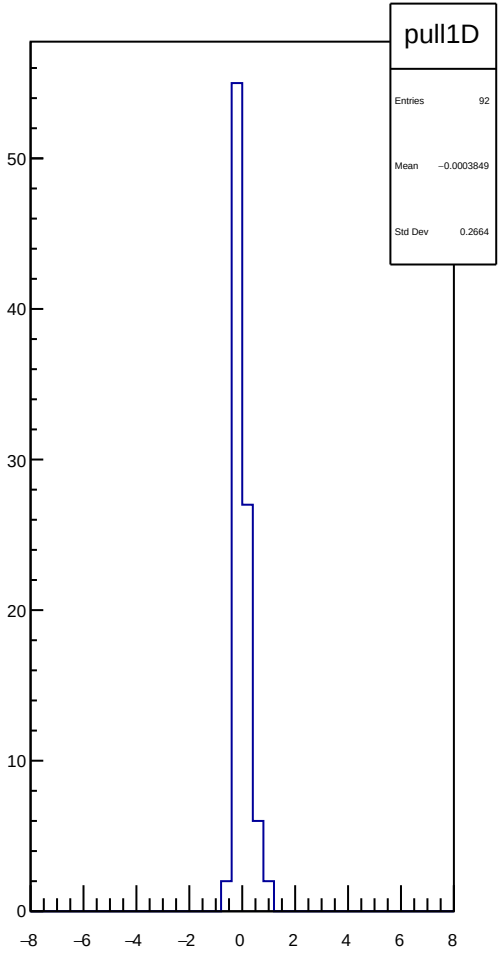

pull1D
Entries 92
Mean 0.01064
Std Dev 0.3539

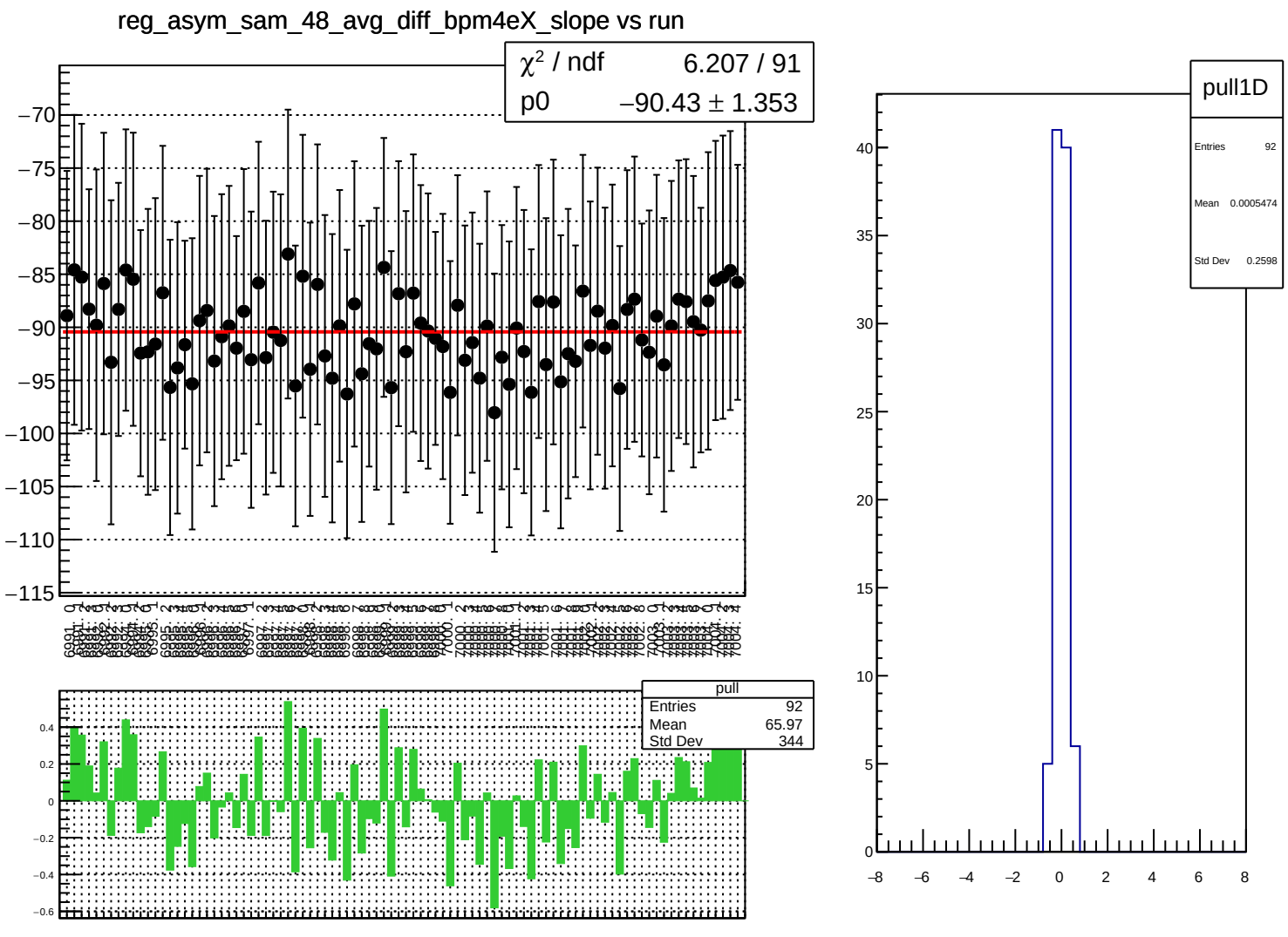

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 17.45 / 91
p0 0.6424 ± 0.05125
pull
Entries 92
Mean −44.83
Std Dev 139.4

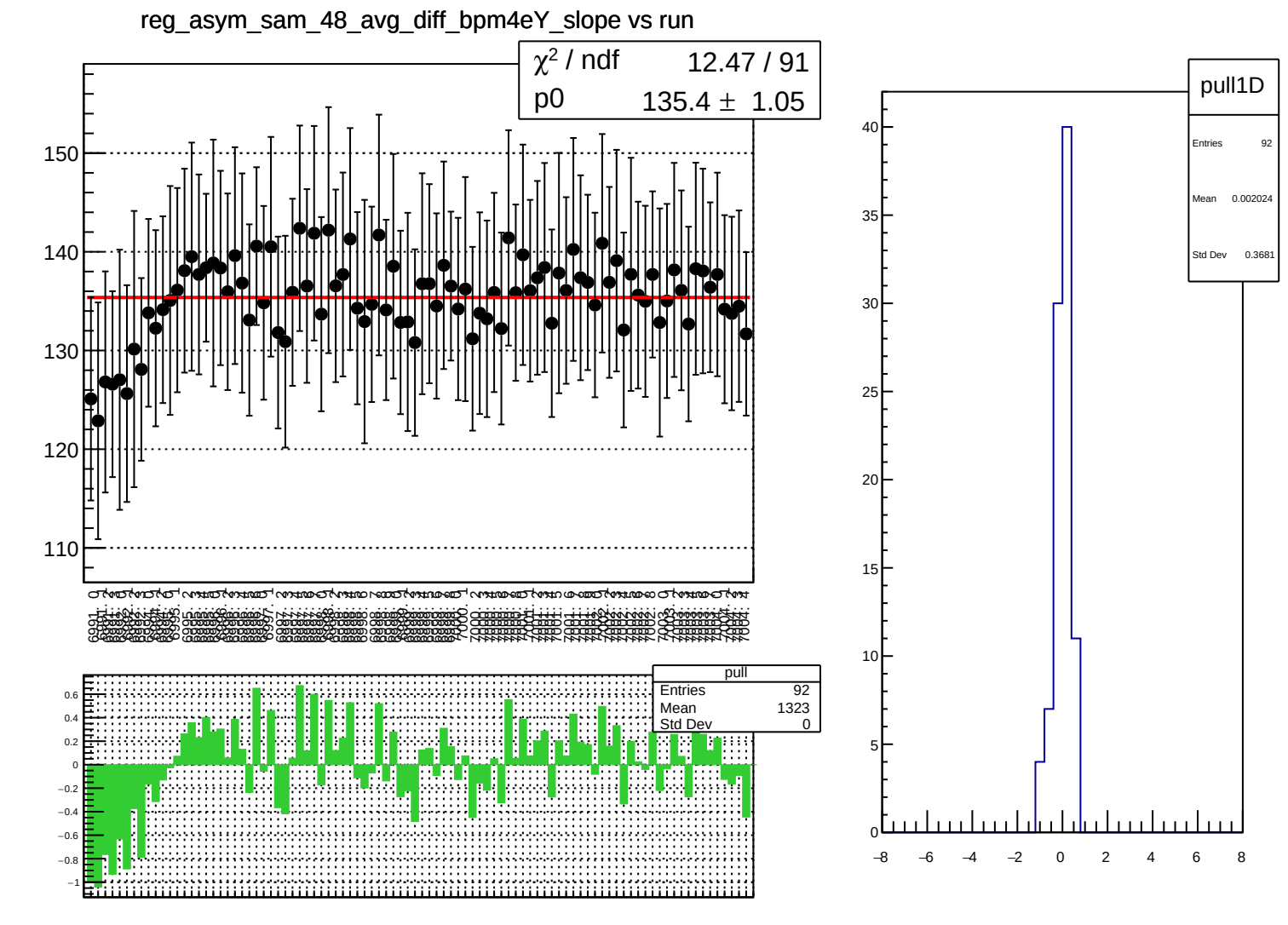

pull1D
Entries 92
Mean 0.007094
Std Dev 0.4354

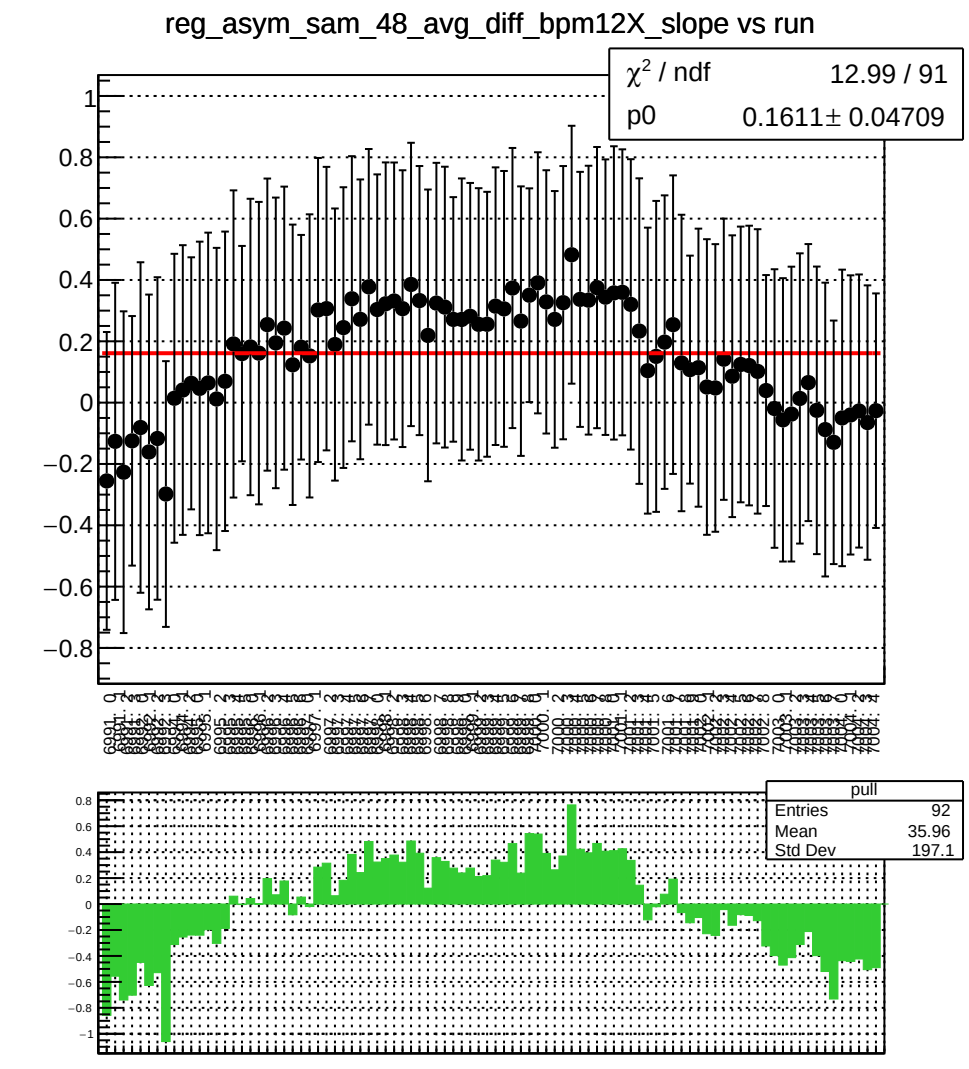

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 4.902 / 91
p0 −21.76 ± 1.467
0
−10
−20
−30
−40
pull
Entries 92
Mean −63.64
Std Dev 112.1
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.002513
Std Dev 0.2308
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

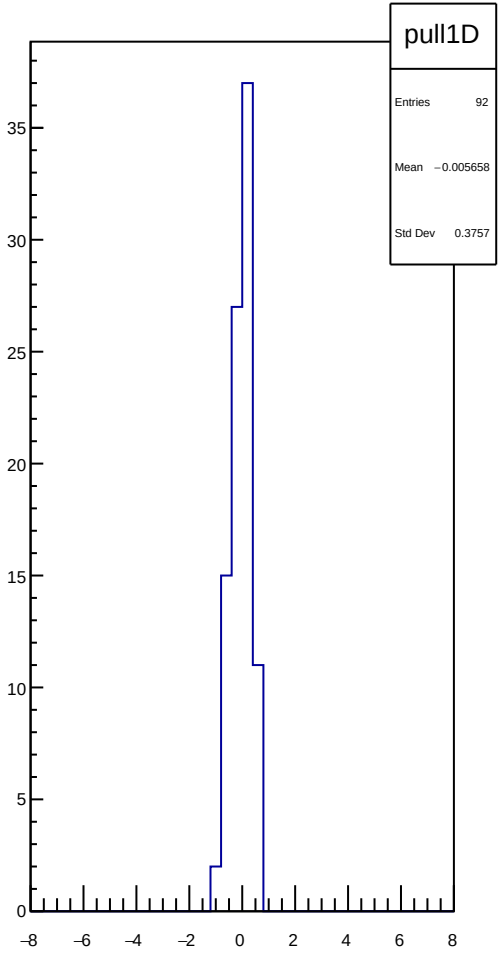

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.53 / 91
p0 −16.16 ± 0.9981
pull
Entries 92
Mean 5603
Std Dev 0

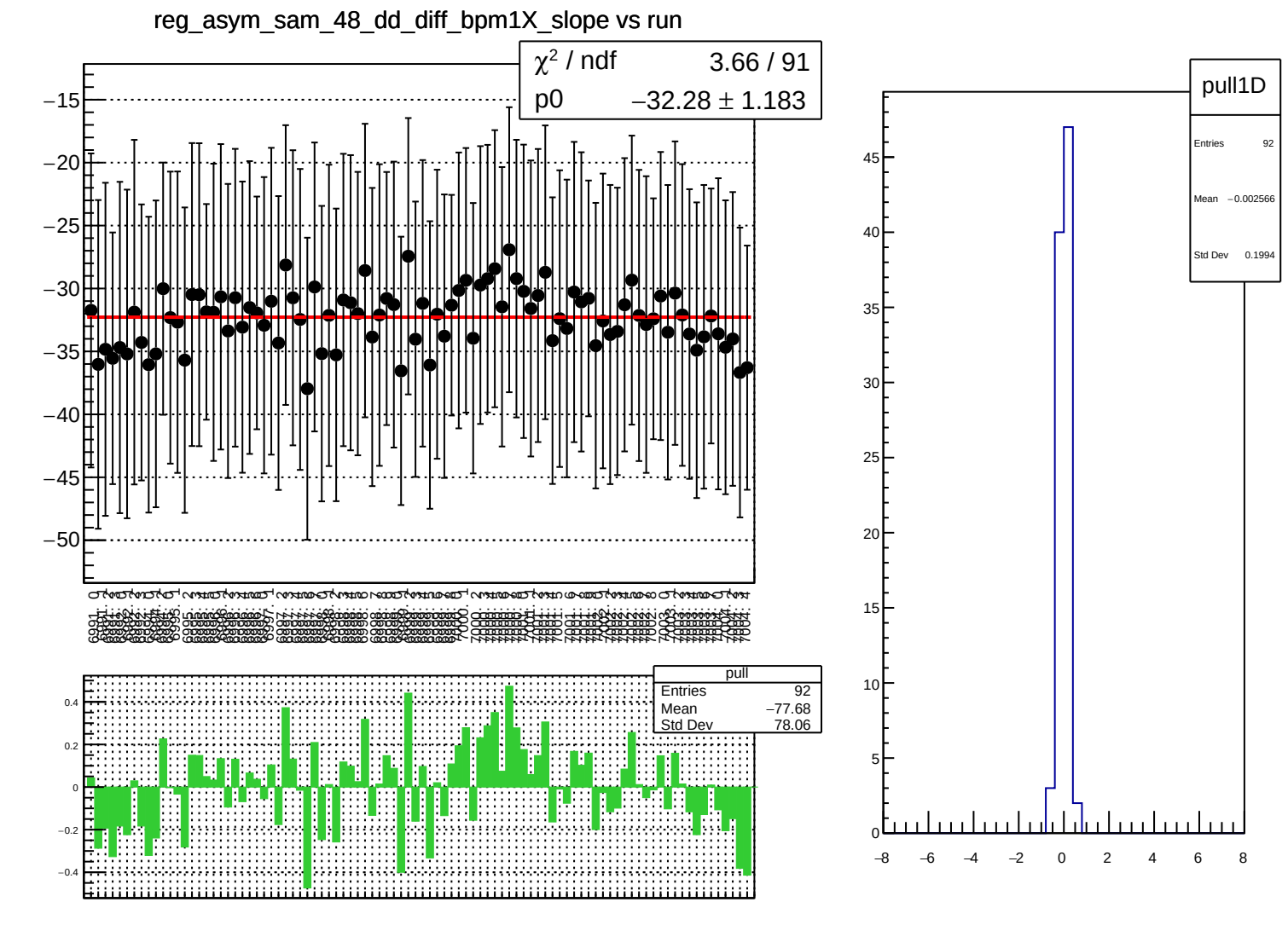

pull1D
Entries 92
Mean −0.0003849
Std Dev 0.2664

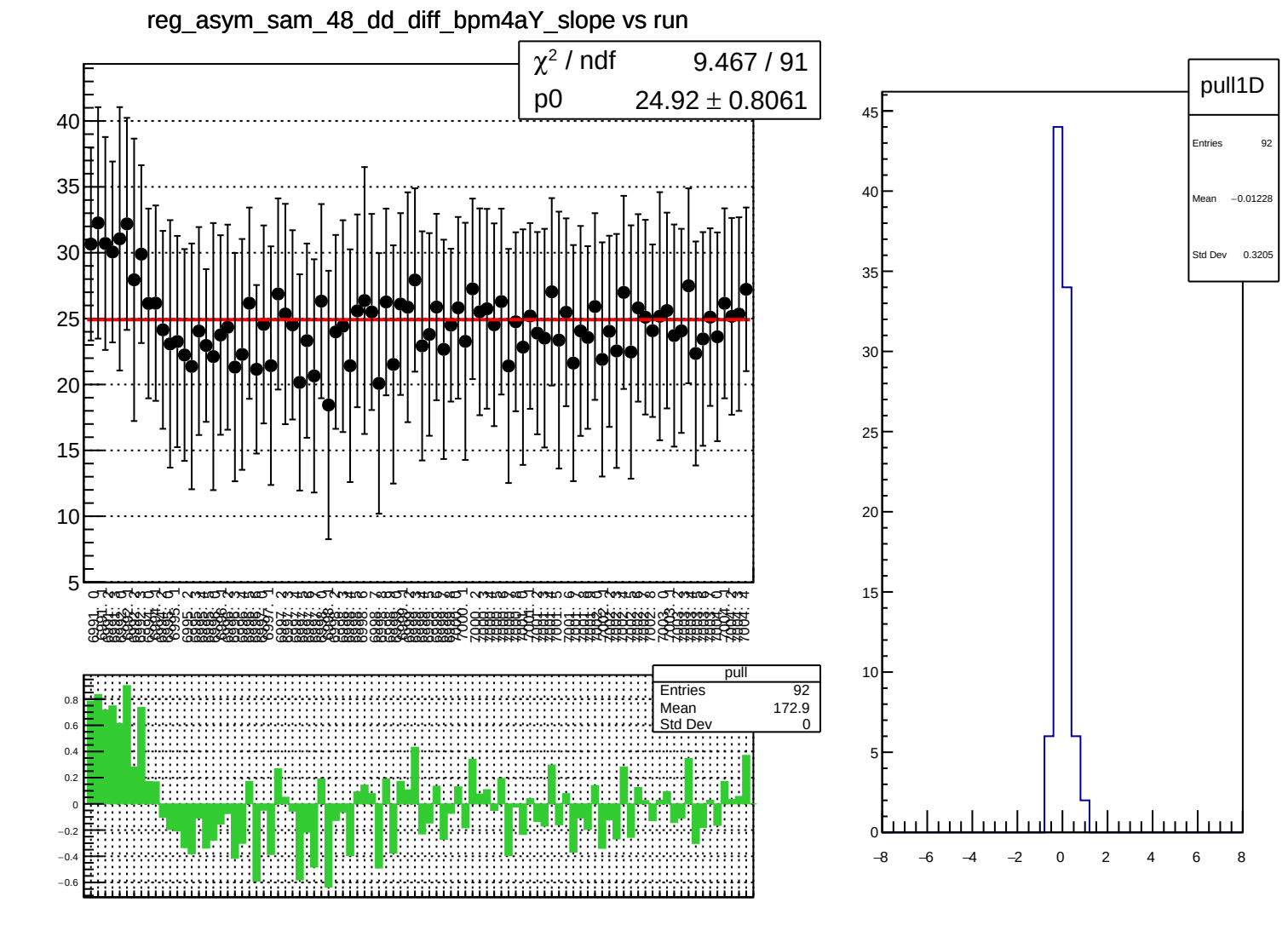

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.207 / 91
p0 −90.43 ± 1.353
pull
Entries 92
Mean 65.97
Std Dev 344
pull1D
Entries 92
Mean 0.0005474
Std Dev 0.2598

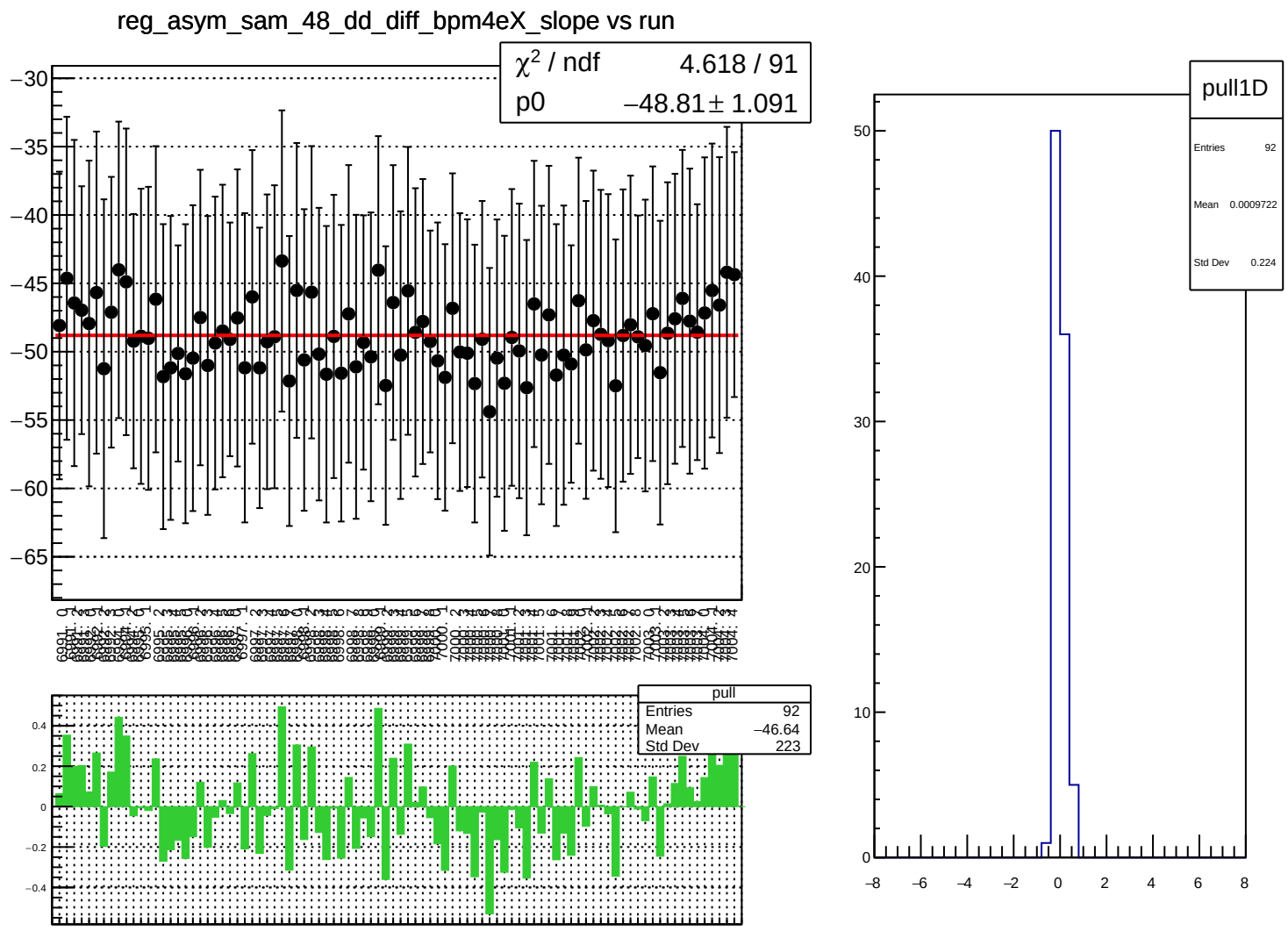

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.47 / 91
p0 135.4 ± 1.05
150
140
130
120
110
pull
Entries 92
Mean 1323
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean 0.002024
Std Dev 0.3681
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

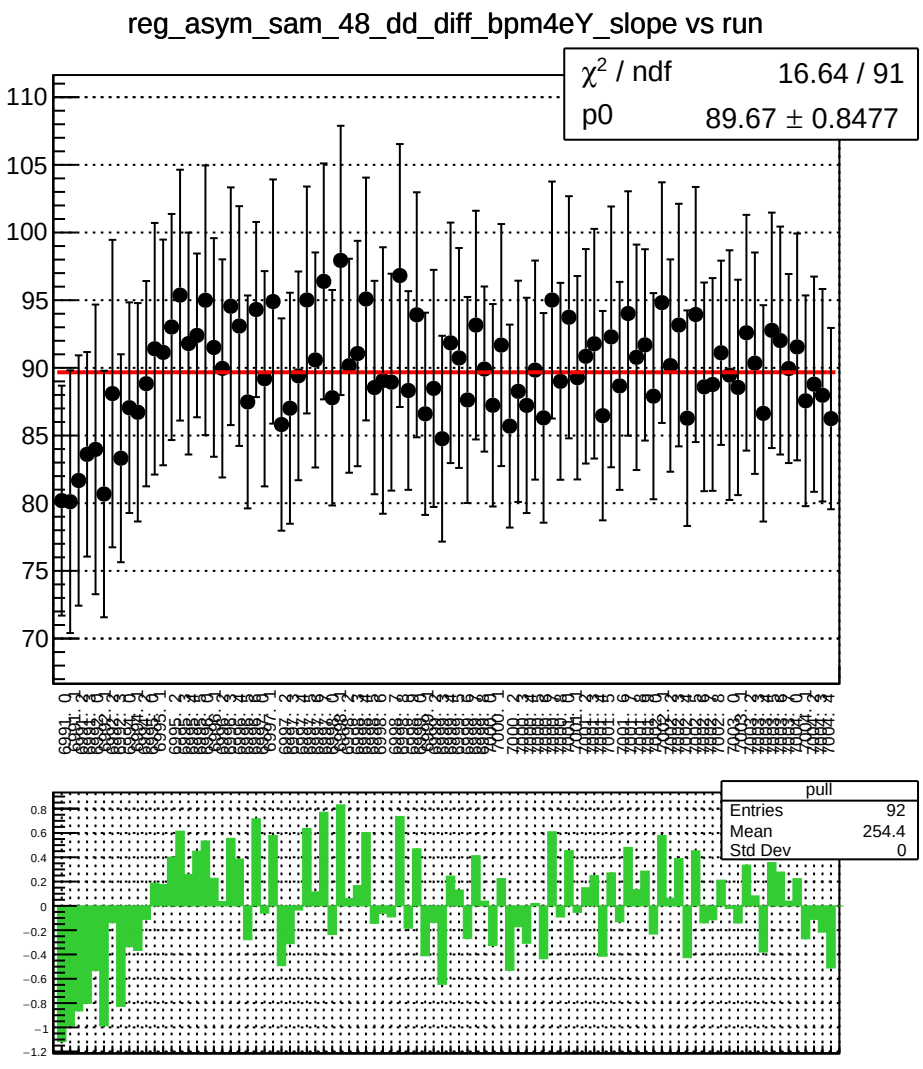

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 12.99 / 91
p0 0.1611± 0.04709
pull
Entries 92
Mean 35.96
Std Dev 197.1

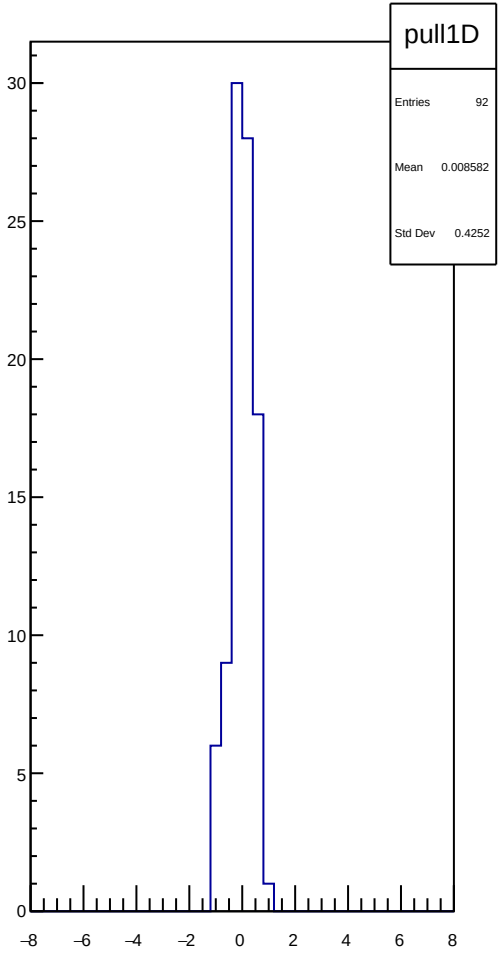

pull1D
Entries 92
Mean −0.005658
Std Dev 0.3757

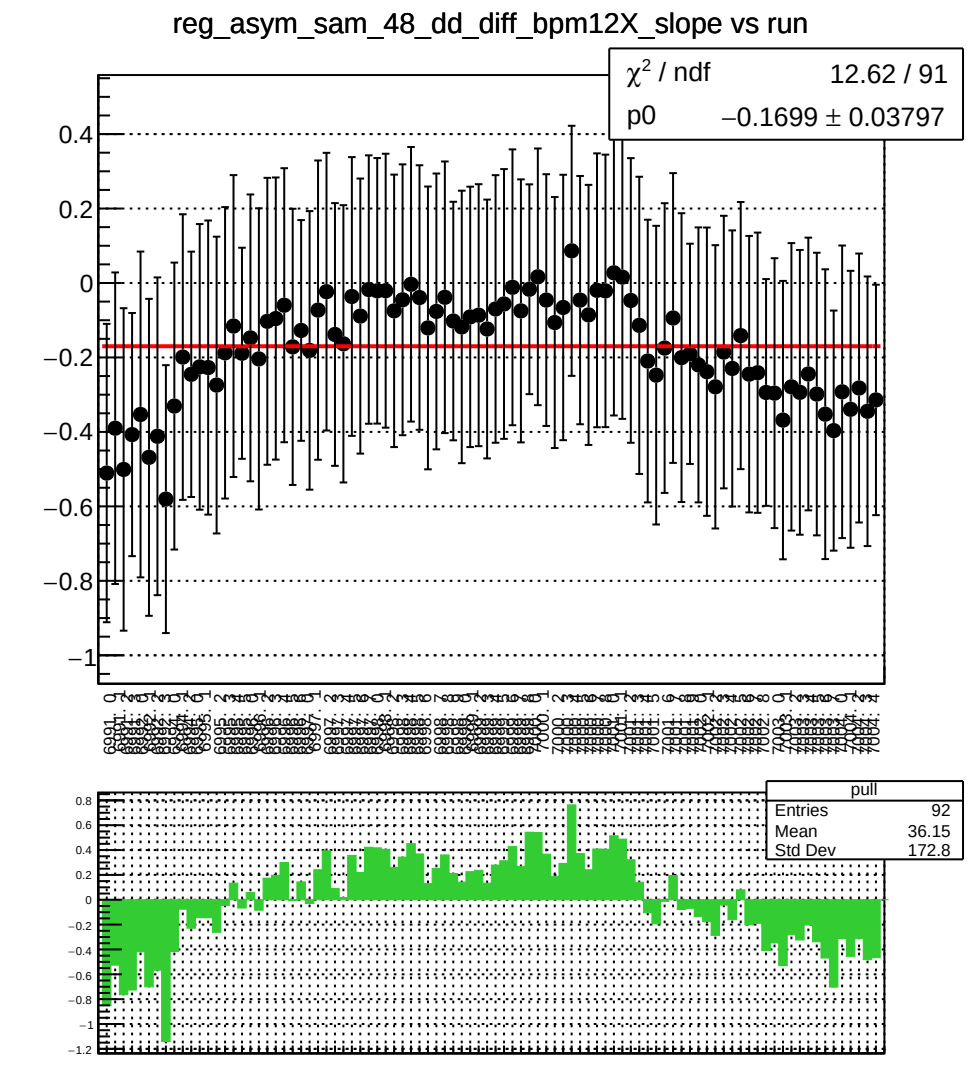

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.66 / 91
p0 −32.28 ± 1.183
pull
Entries 92
Mean −77.68
Std Dev 78.06
pull1D
Entries 92
Mean −0.002566
Std Dev 0.1994

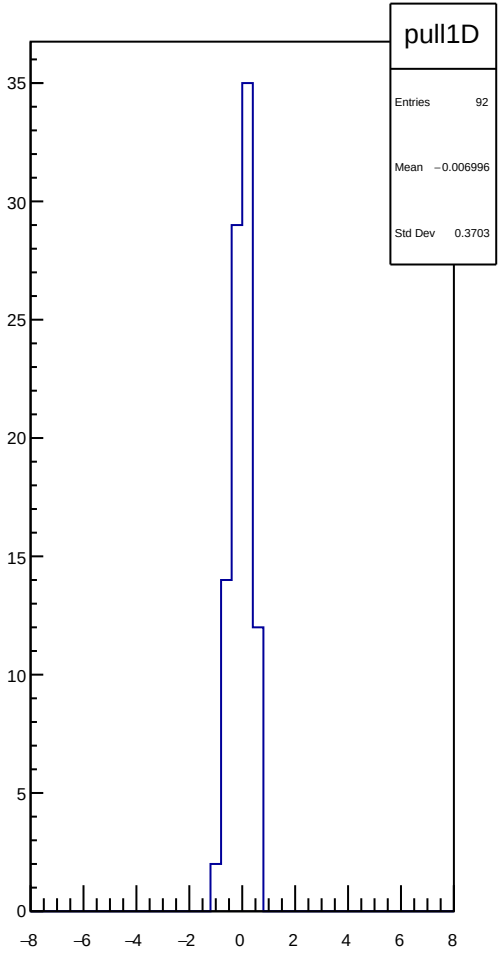

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.467 / 91
p0 24.92 ± 0.8061
pull
Entries 92
Mean 172.9
Std Dev 0
pull1D
Entries 92
Mean −0.01228
Std Dev 0.3205

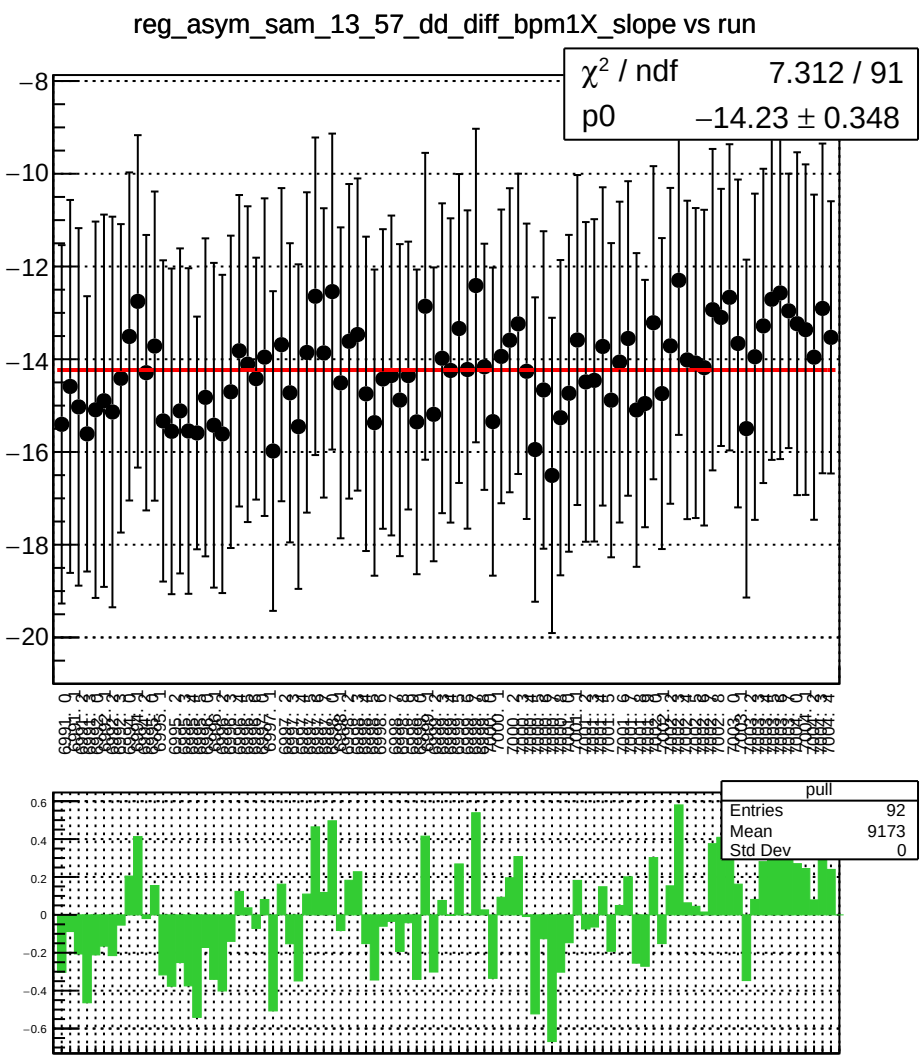

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.618 / 91
p0 −48.81 ± 1.091
−30
−35
−40
−45
−50
−55
−60
−65
pull
Entries 92
Mean −46.64
Std Dev 223
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean 0.0009722
Std Dev 0.224
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

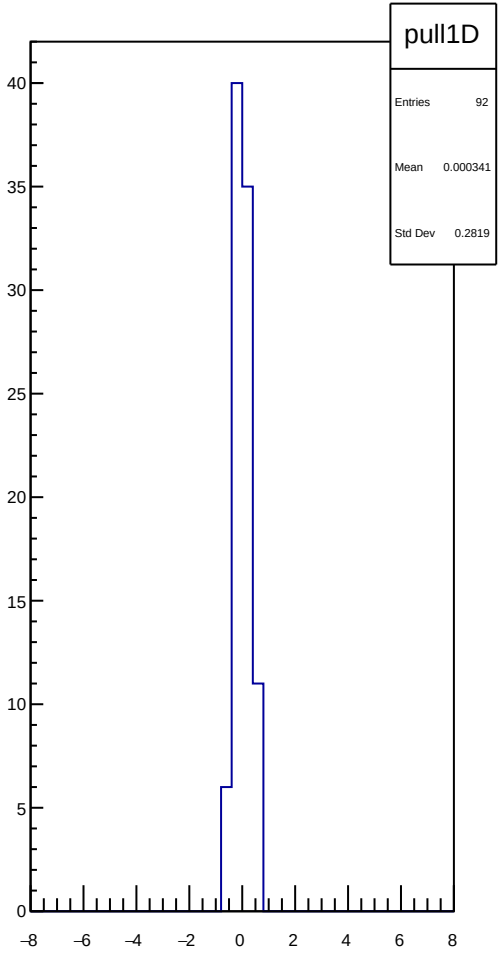

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.64 / 91
p0 89.67 ± 0.8477
pull
Entries 92
Mean 254.4
Std Dev 0

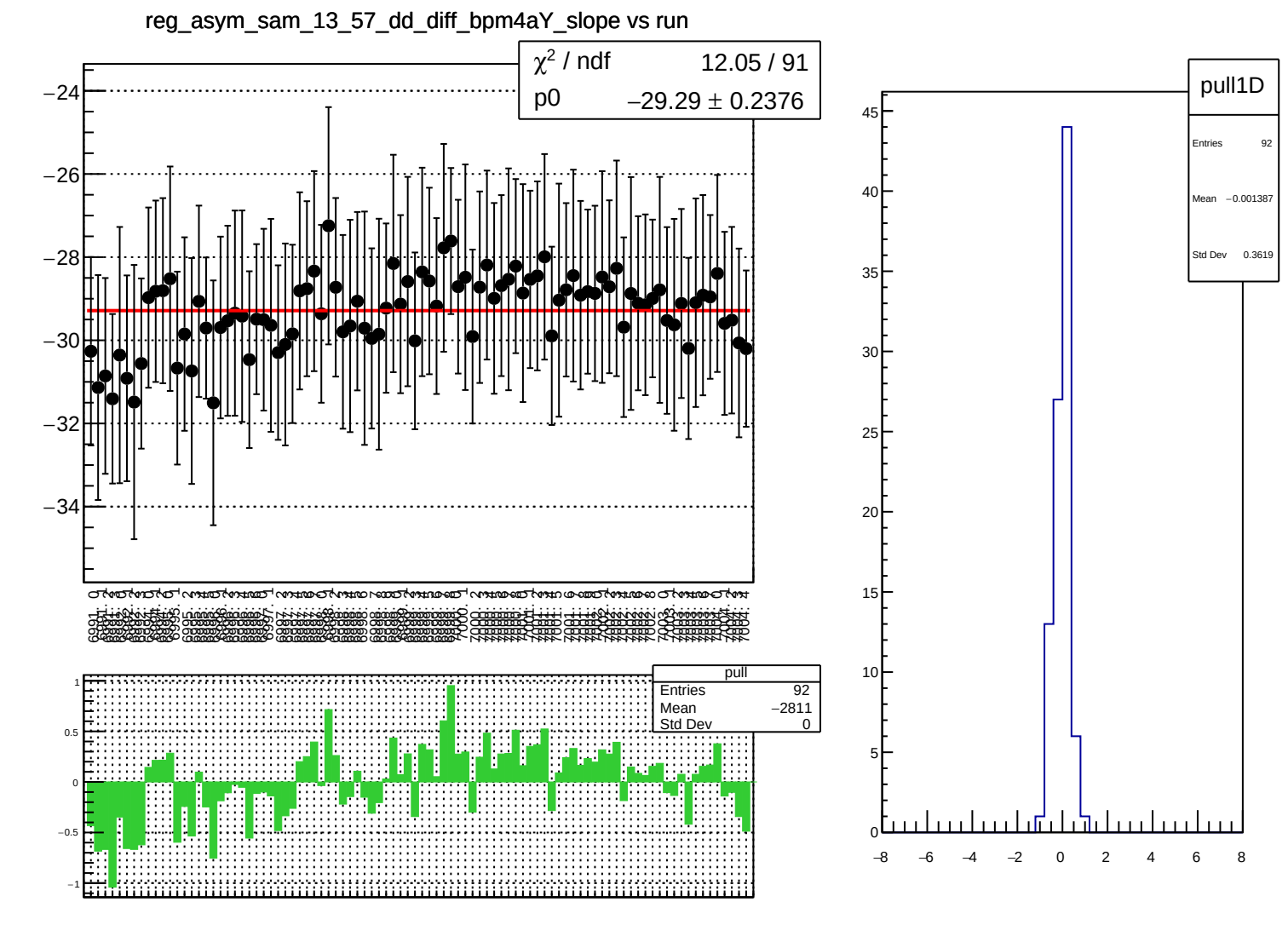

pull1D
Entries 92
Mean 0.008582
Std Dev 0.4252

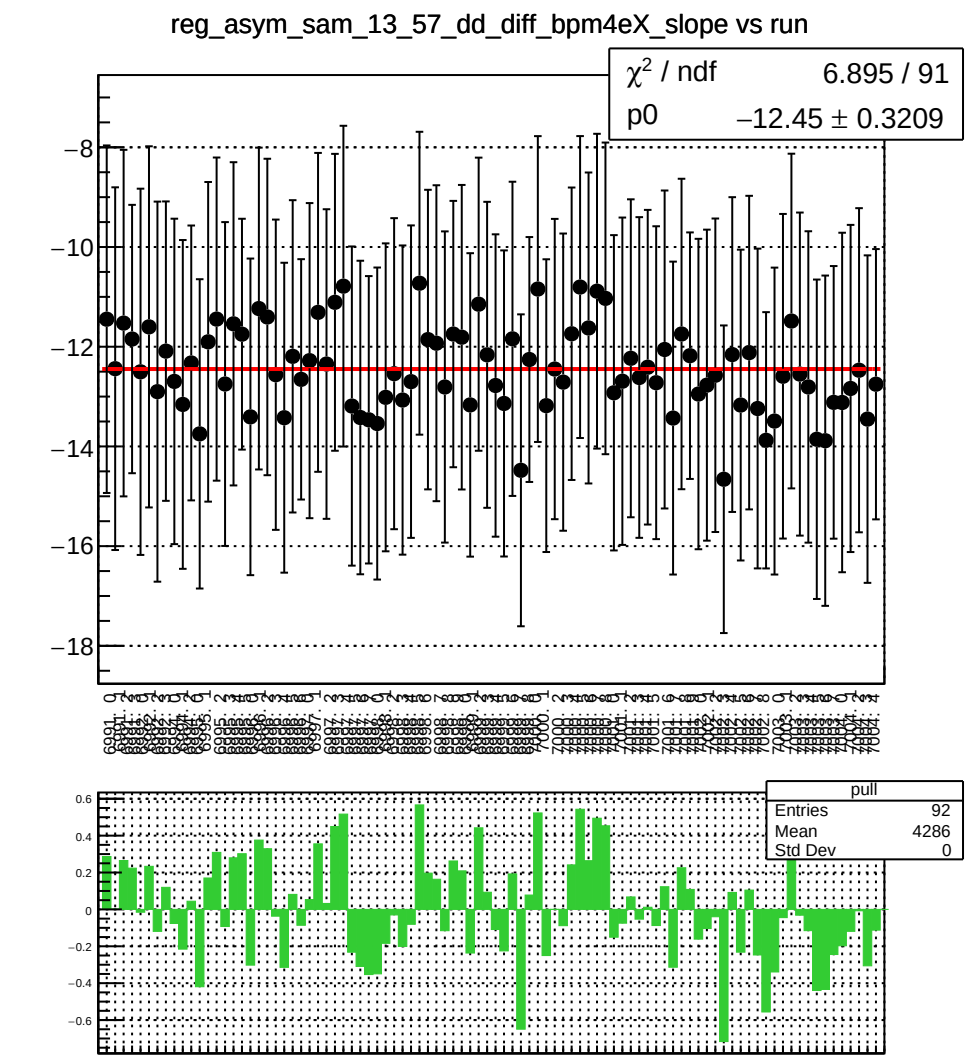

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 12.62 / 91
p0 −0.1699 ± 0.03797
pull
Entries 92
Mean 36.15
Std Dev 172.8

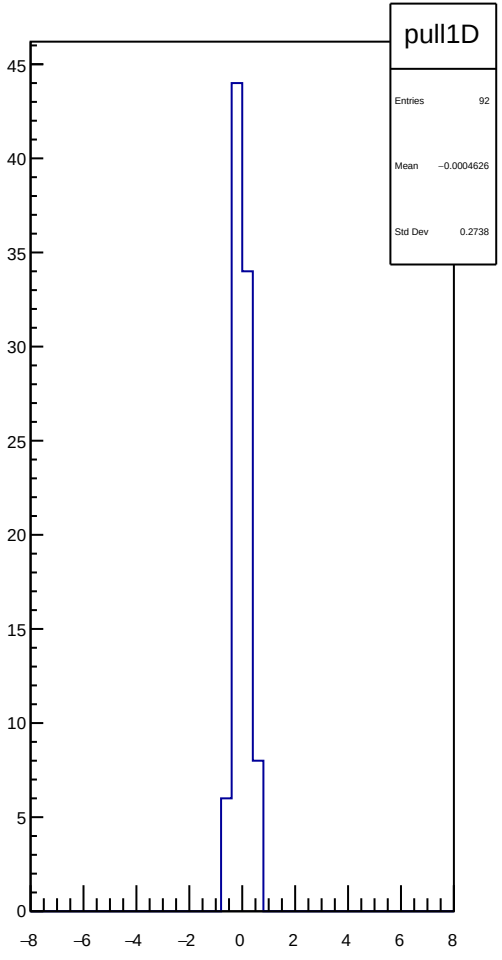

pull1D
Entries 92
Mean −0.006996
Std Dev 0.3703

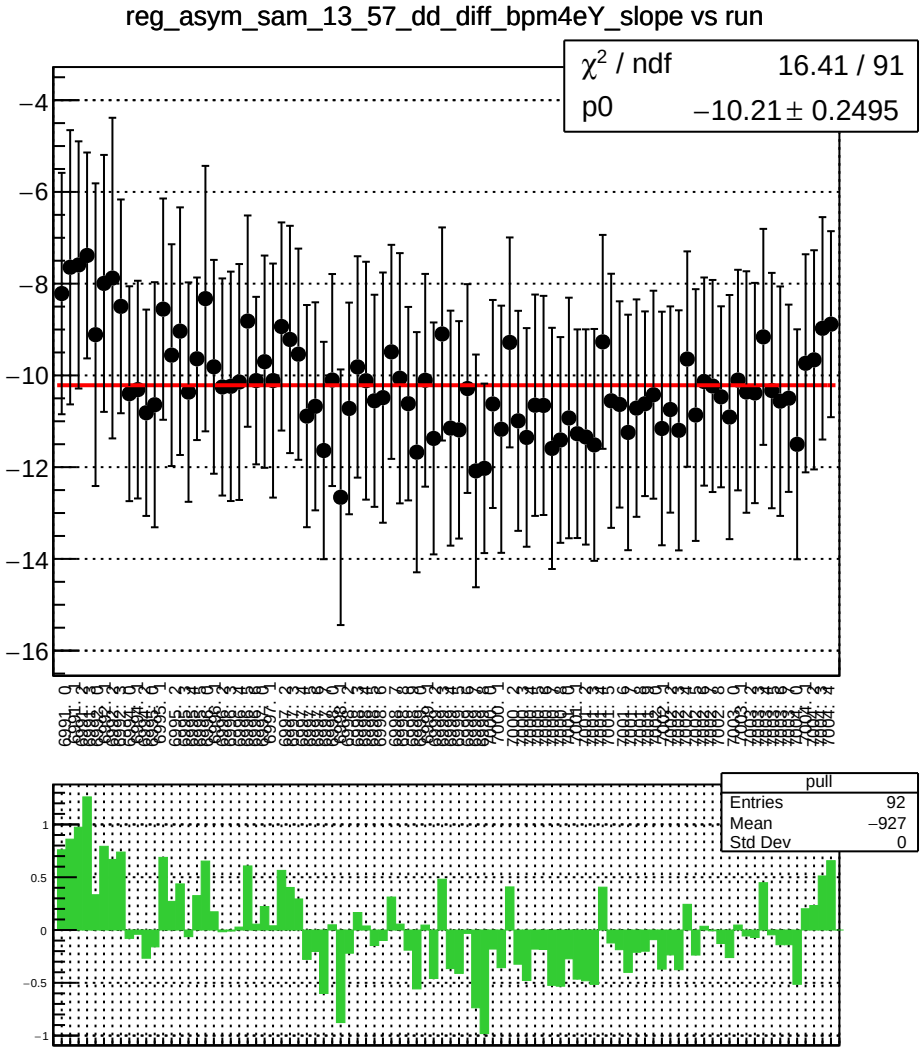

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 7.312 / 91
p0 −14.23 ± 0.348
pull
Entries 92
Mean 9173
Std Dev 0

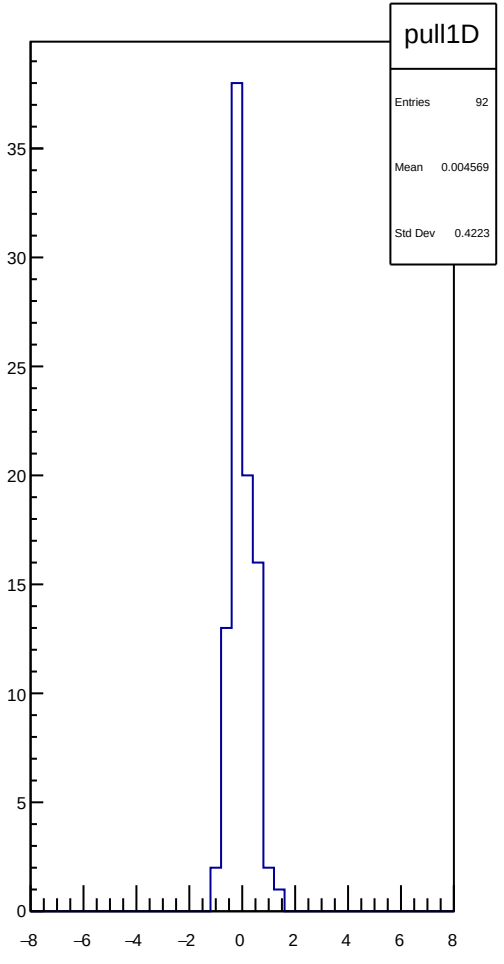

pull1D
Entries 92
Mean 0.000341
Std Dev 0.2819

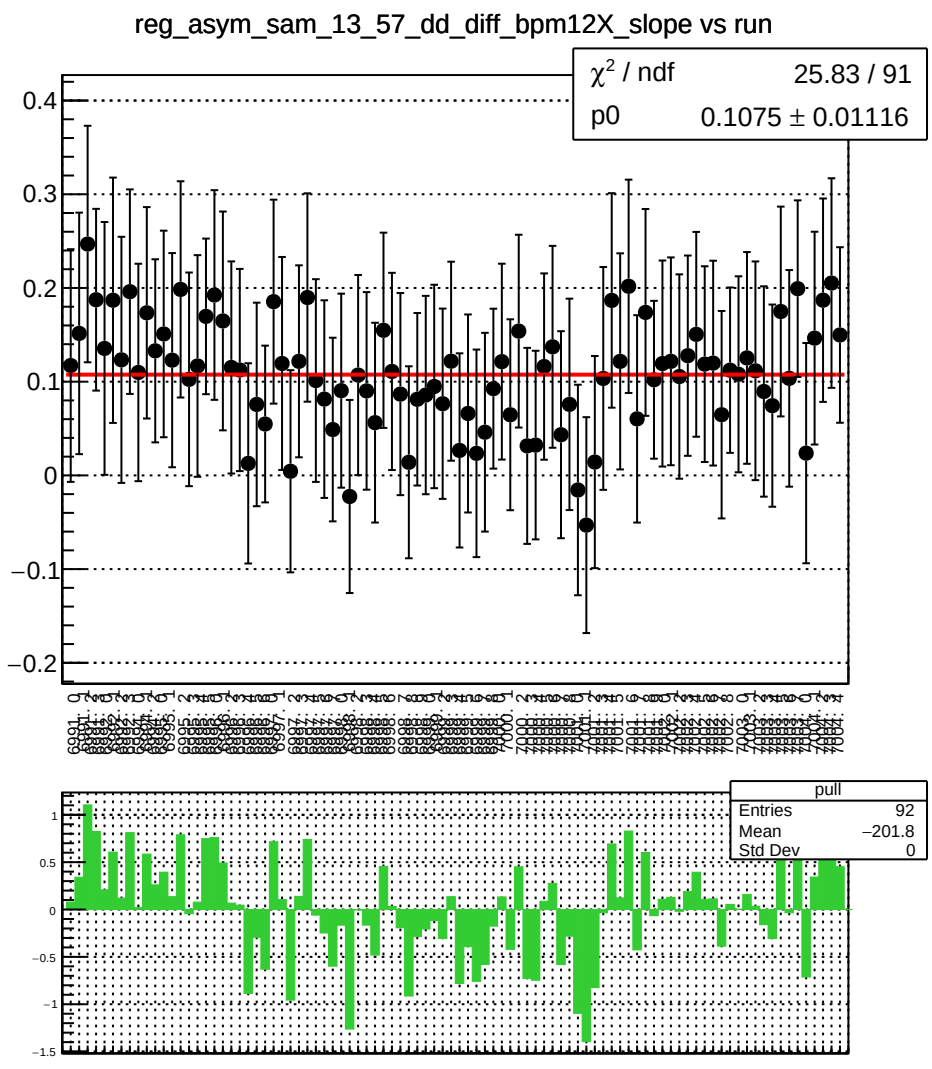

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.05 / 91
p0 −29.29 ± 0.2376
−24
−26
−28
−30
−32
−34
pull
Entries 92
Mean −2811
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.001387
Std Dev 0.3619
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

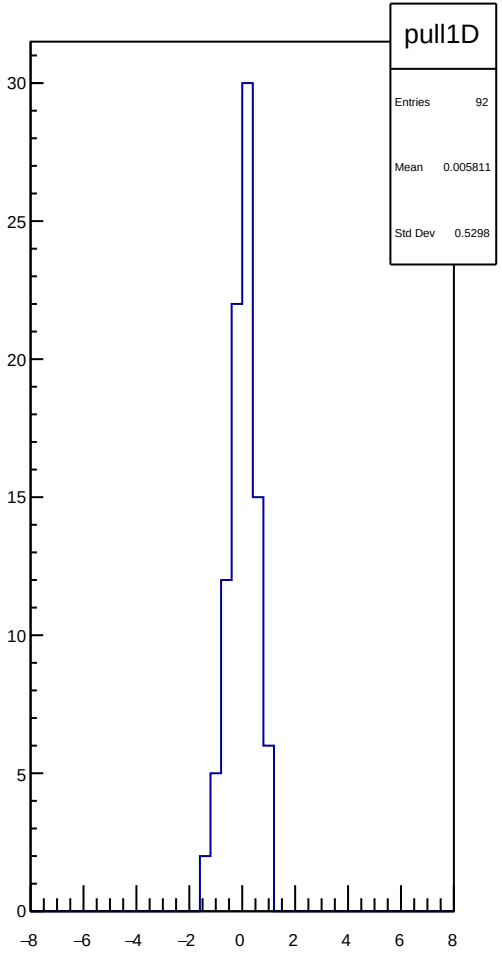

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.895 / 91
p0 −12.45 ± 0.3209
pull
Entries 92
Mean 4286
Std Dev 0

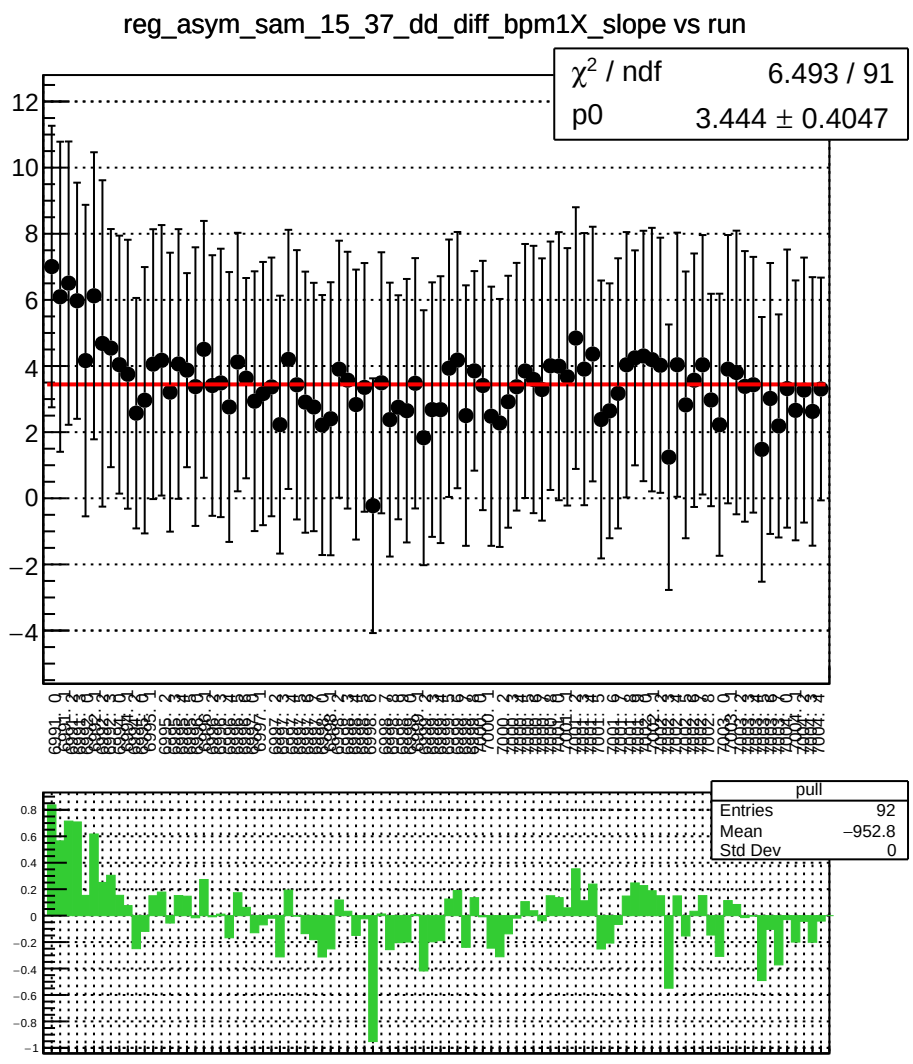

pull1D
Entries 92
Mean −0.0004626
Std Dev 0.2738

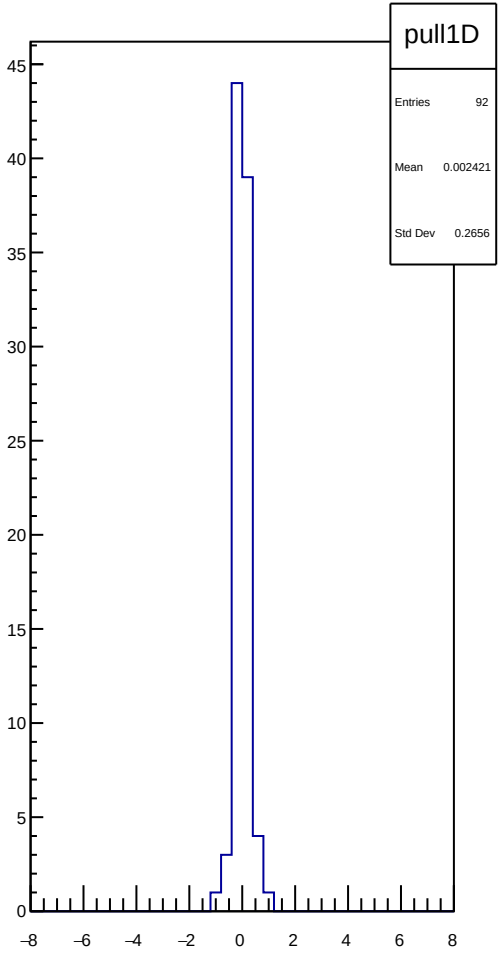

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.41 / 91
p0 −10.21 ± 0.2495
pull
Entries 92
Mean −927
Std Dev 0

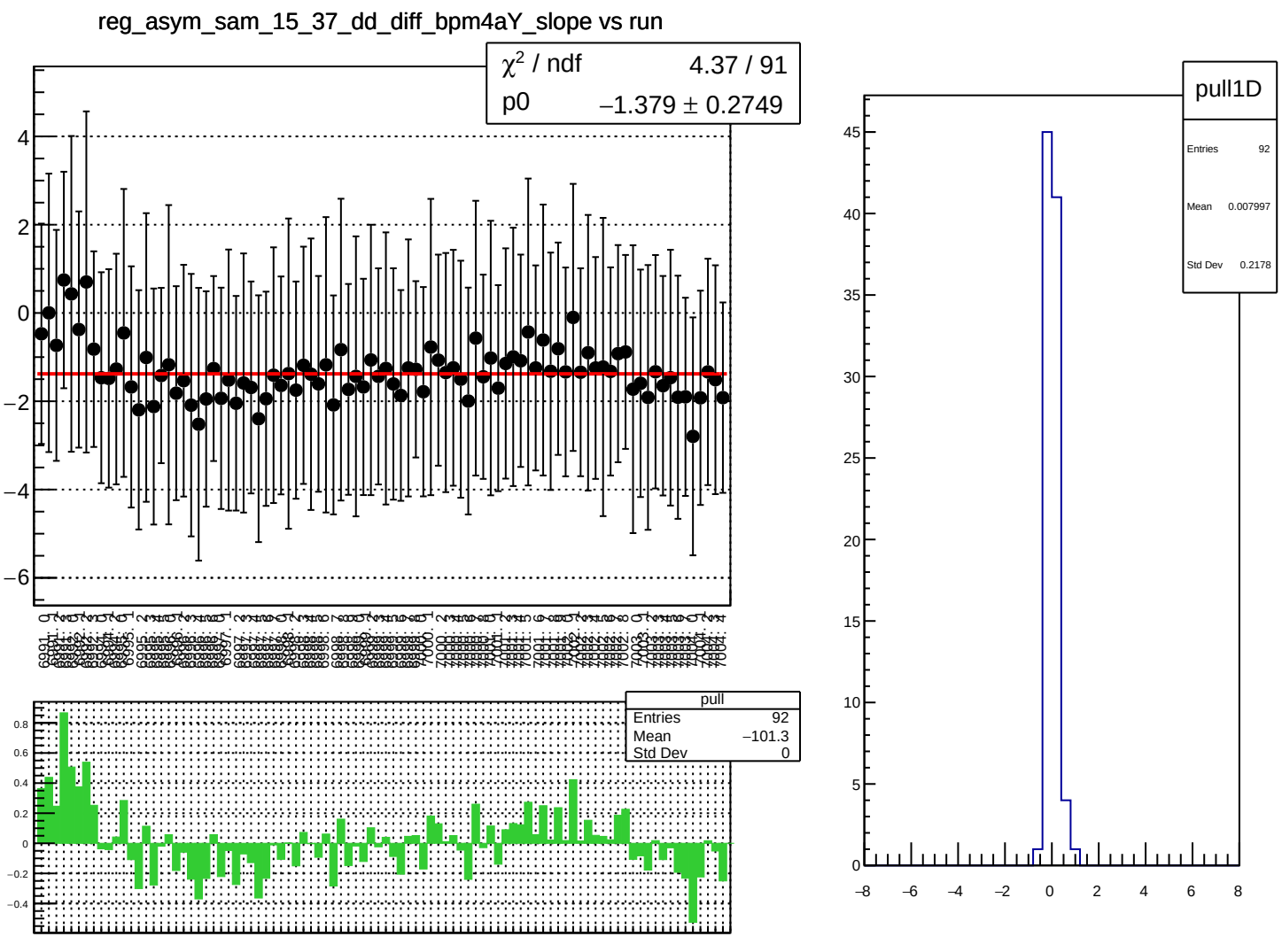

pull1D
Entries 92
Mean 0.004569
Std Dev 0.4223

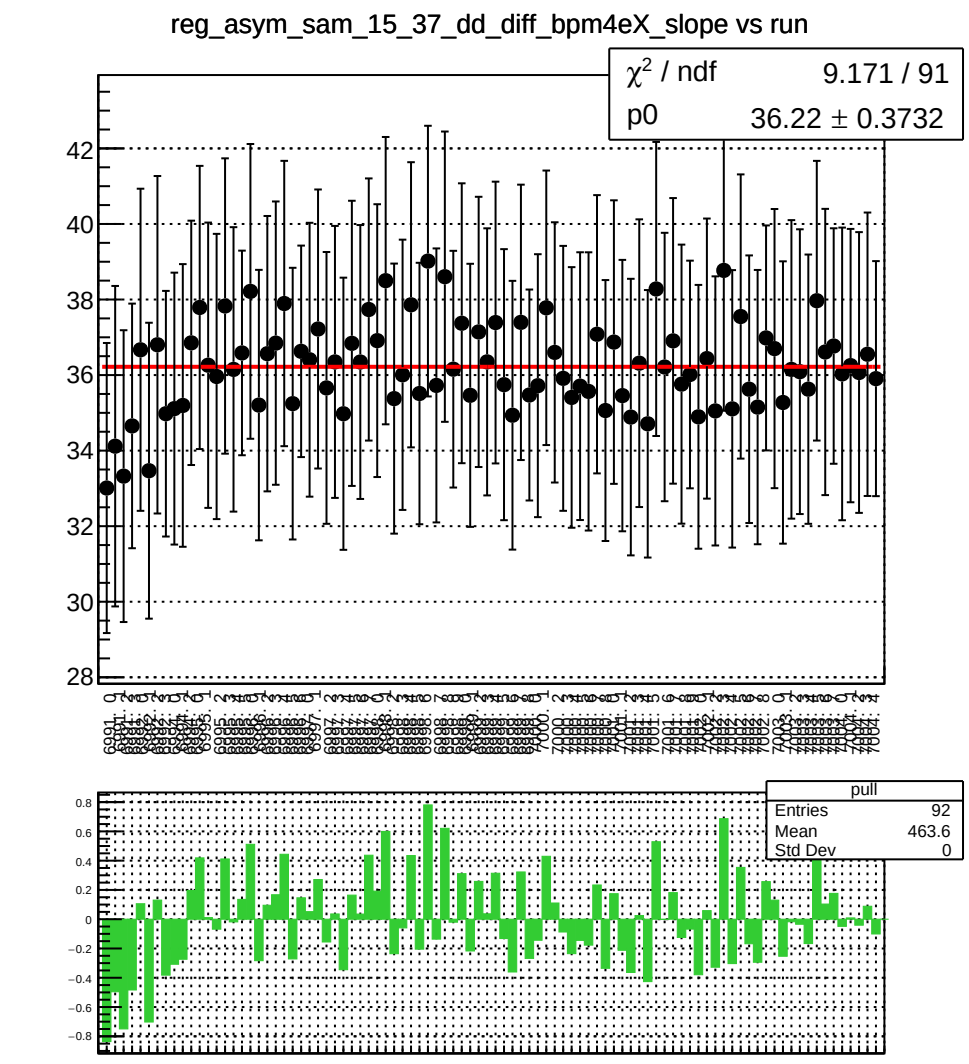

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 25.83 / 91
p0 0.1075 ± 0.01116
pull
Entries 92
Mean −201.8
Std Dev 0

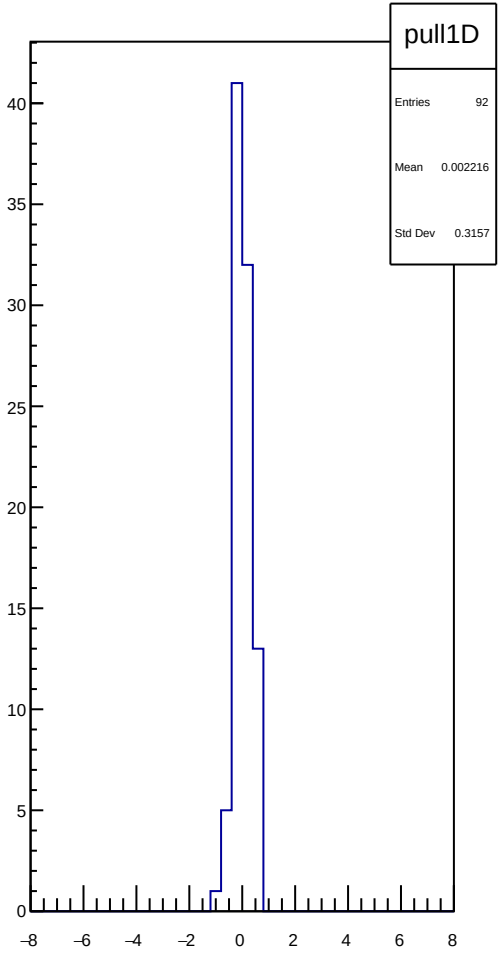

pull1D
Entries 92
Mean 0.005811
Std Dev 0.5298

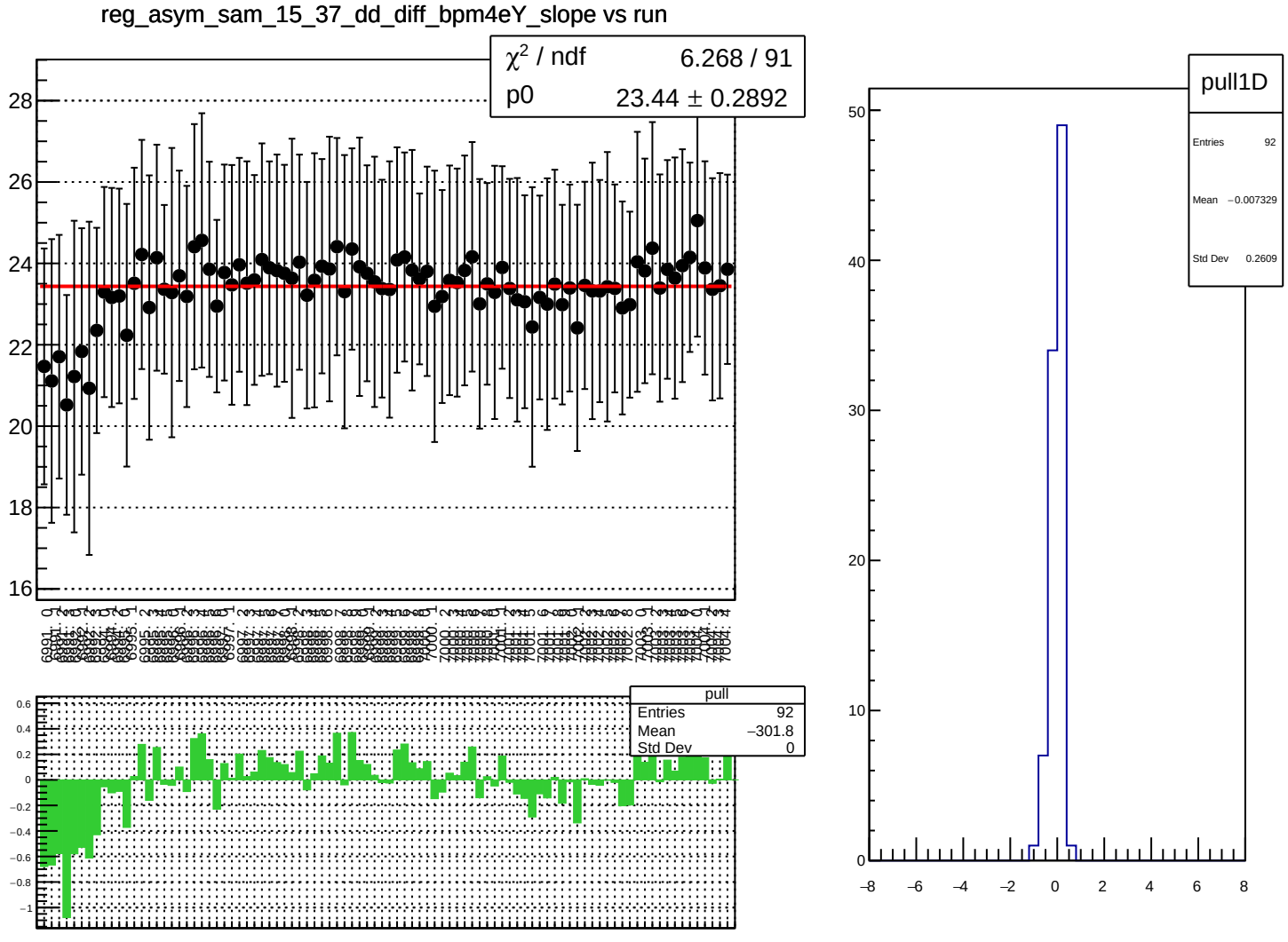

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 6.493 / 91
p0 3.444 ± 0.4047
pull
Entries 92
Mean −952.8
Std Dev 0

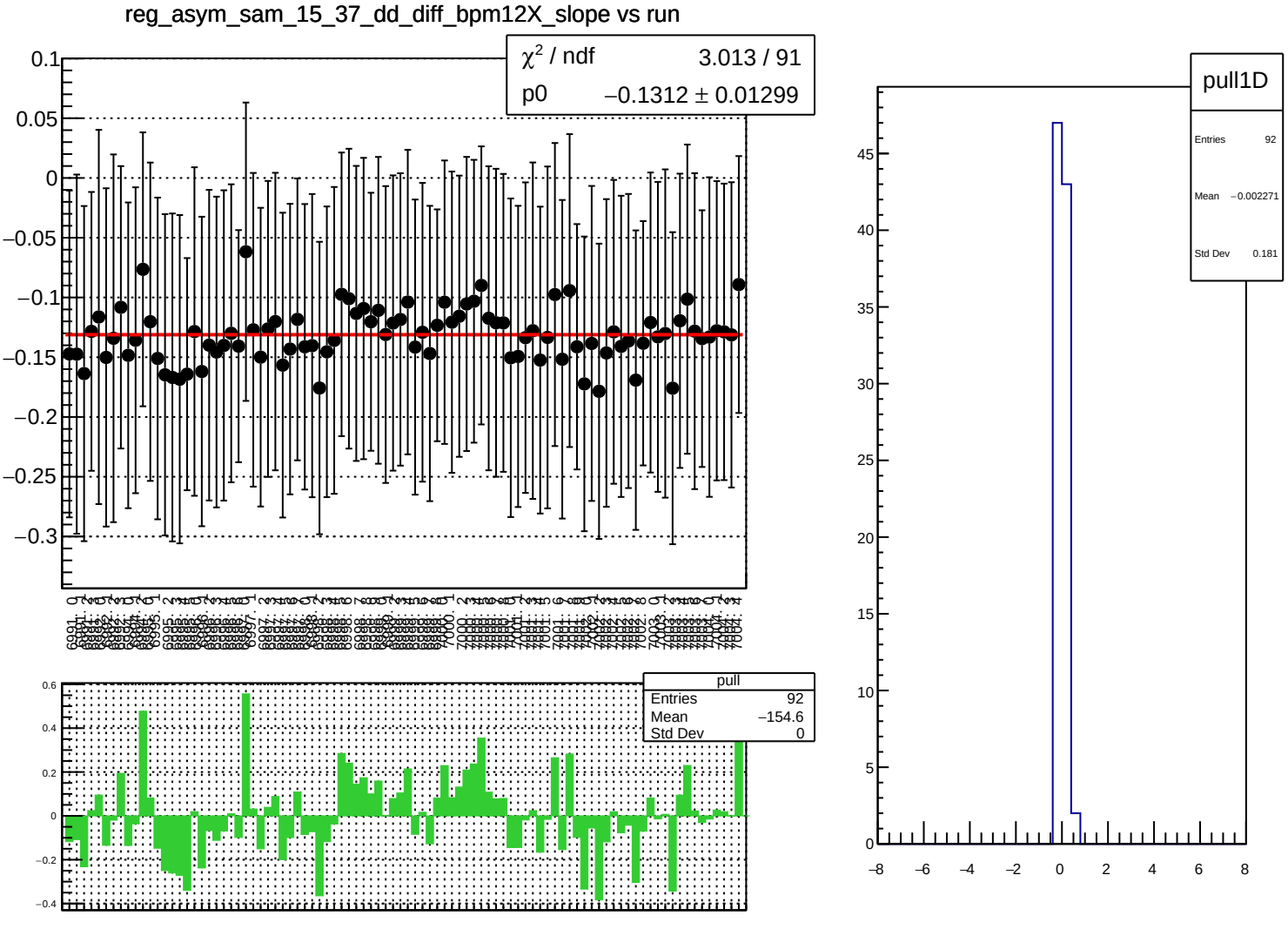

pull1D
Entries 92
Mean 0.002421
Std Dev 0.2656

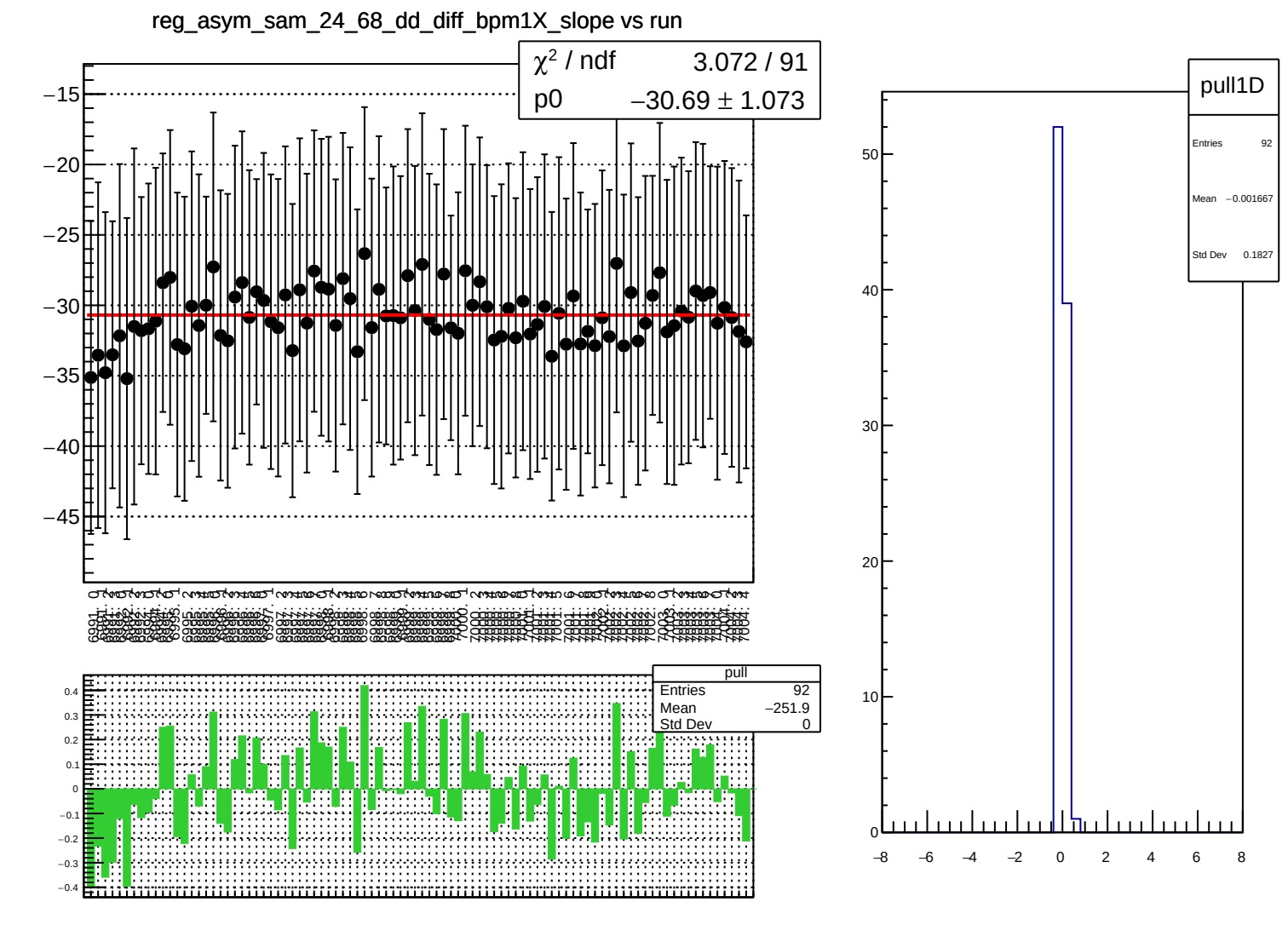

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.37 / 91
p0 −1.379 ± 0.2749
pull
Entries 92
Mean −101.3
Std Dev 0
pull1D
Entries 92
Mean 0.007997
Std Dev 0.2178

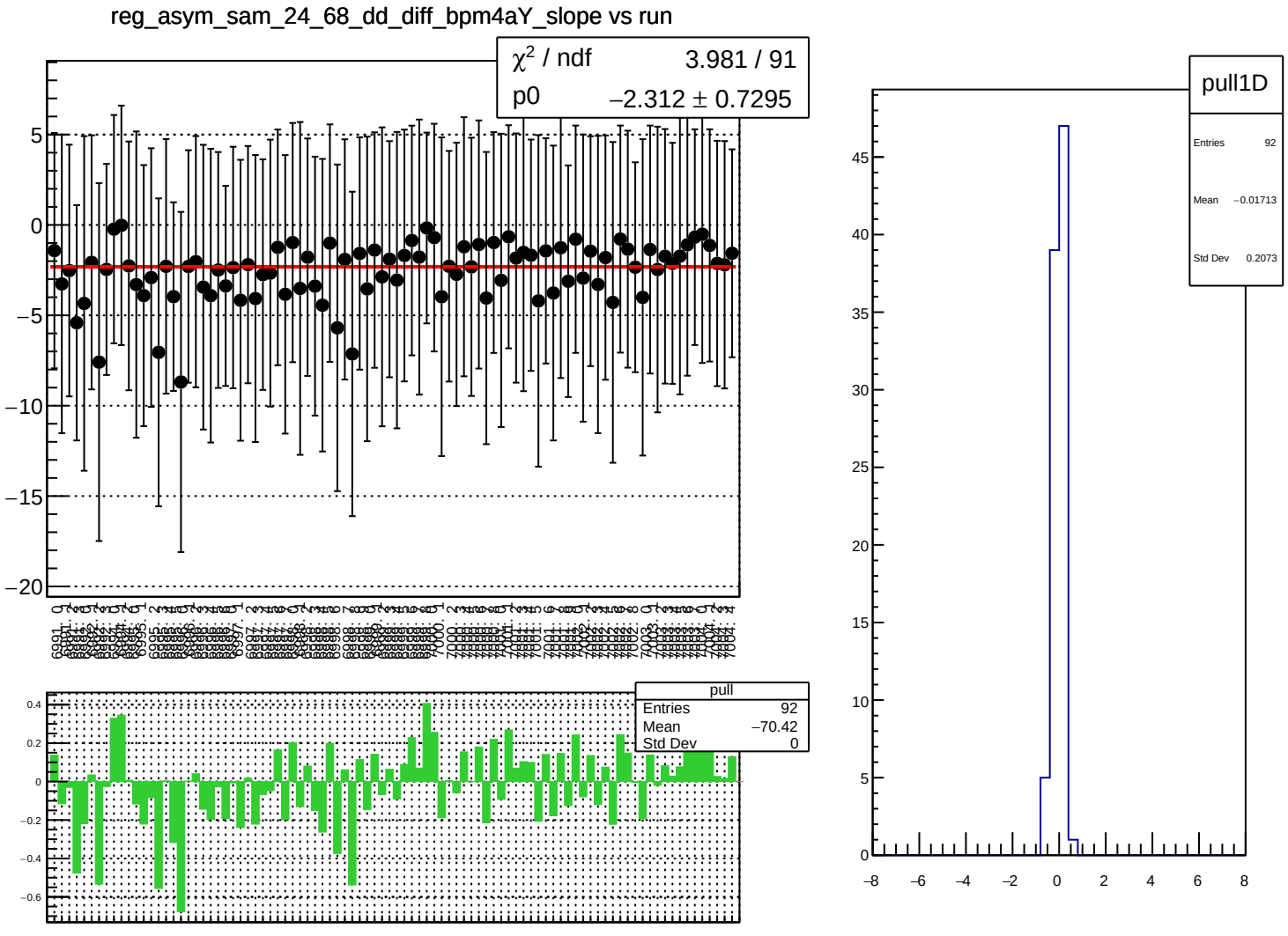

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.171 / 91
p0 36.22 ± 0.3732
pull
Entries 92
Mean 463.6
Std Dev 0

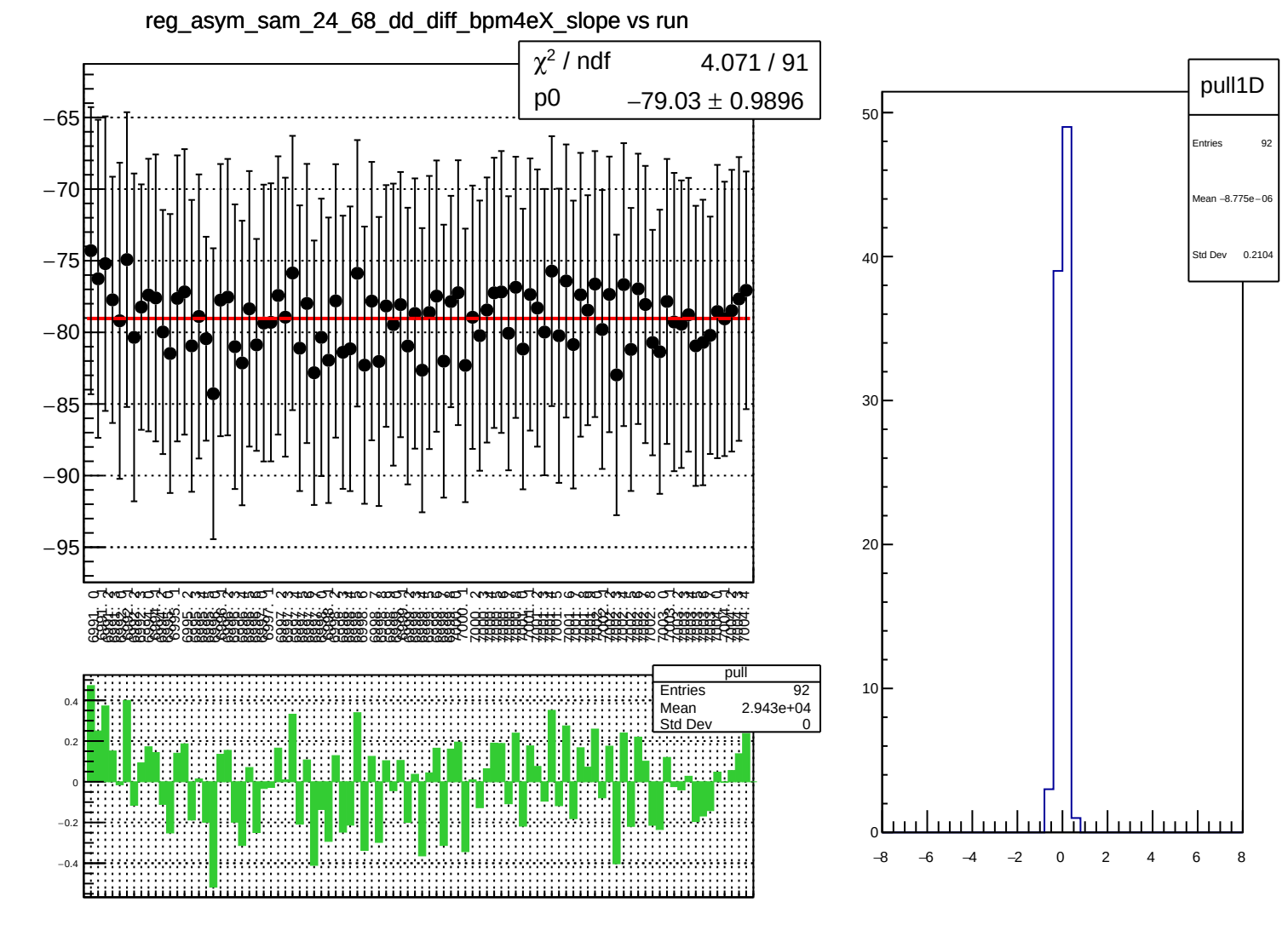

pull1D
Entries 92
Mean 0.002216
Std Dev 0.3157

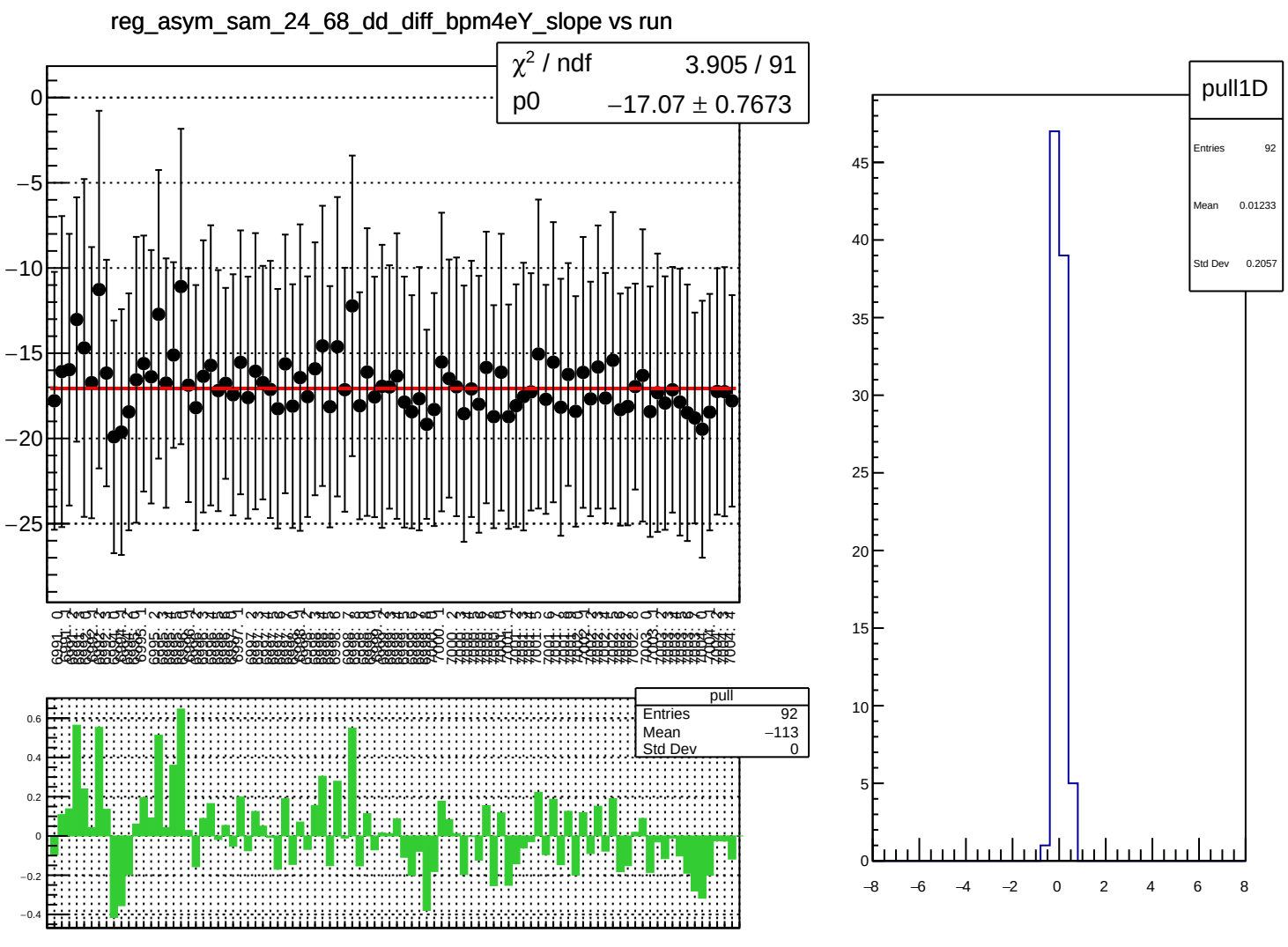

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.268 / 91
p0 23.44 ± 0.2892
pull
Entries 92
Mean −301.8
Std Dev 0
pull1D
Entries 92
Mean −0.007329
Std Dev 0.2609

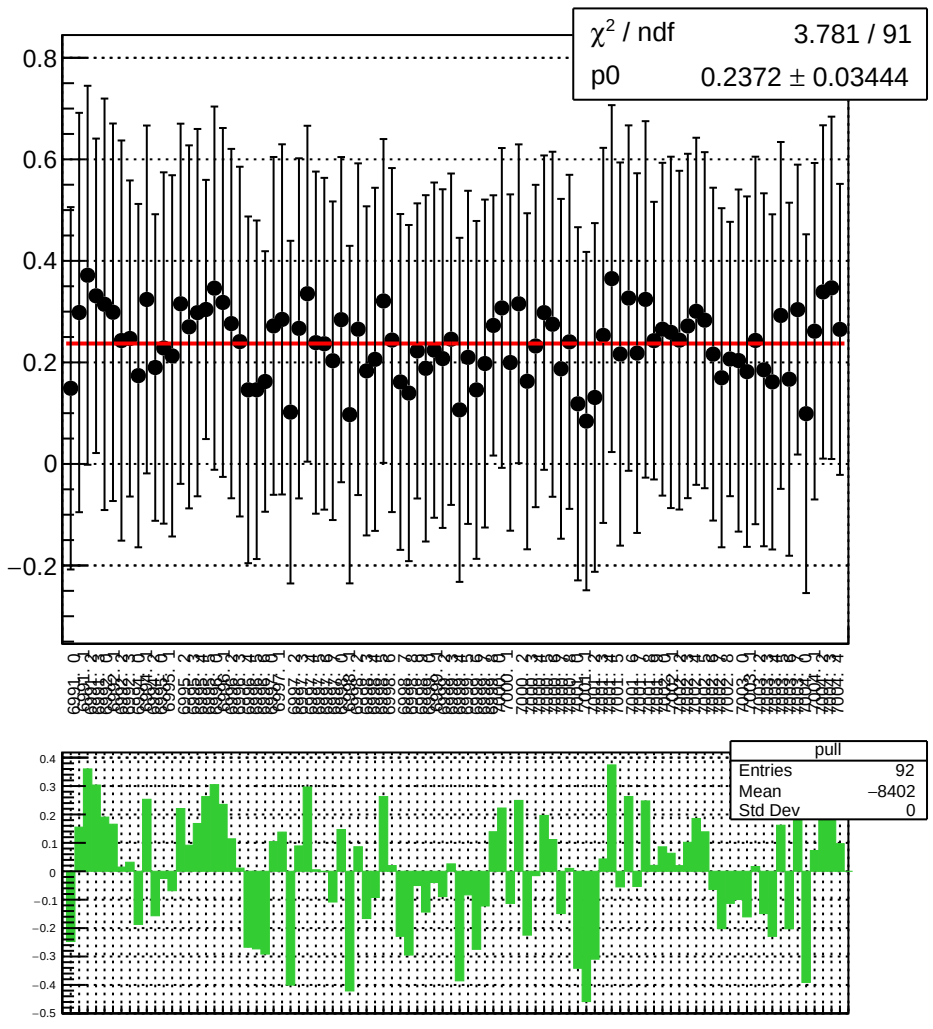

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.013 / 91
p0 −0.1312 ± 0.01299
pull
Entries 92
Mean −154.6
Std Dev 0
pull1D
Entries 92
Mean −0.002271
Std Dev 0.181

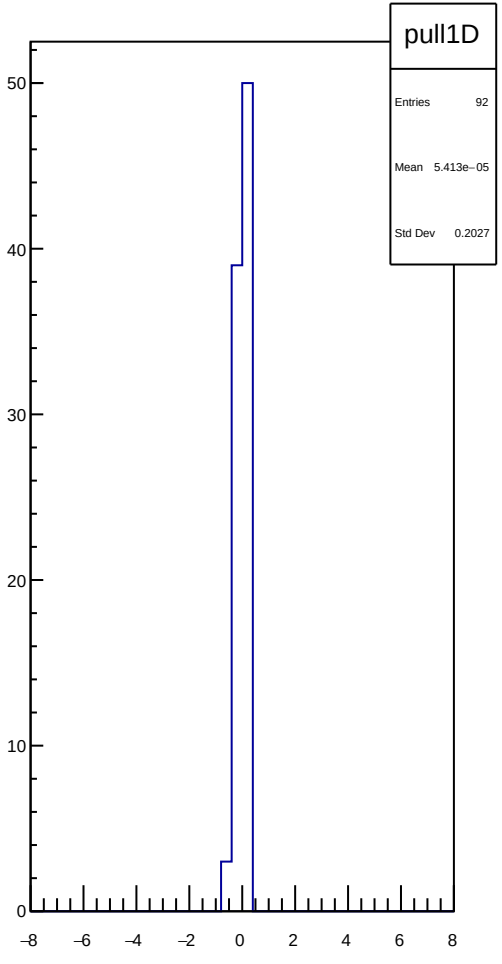

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 3.072 / 91
p0 −30.69 ± 1.073
pull
Entries 92
Mean −251.9
Std Dev 0
pull1D
Entries 92
Mean −0.001667
Std Dev 0.1827

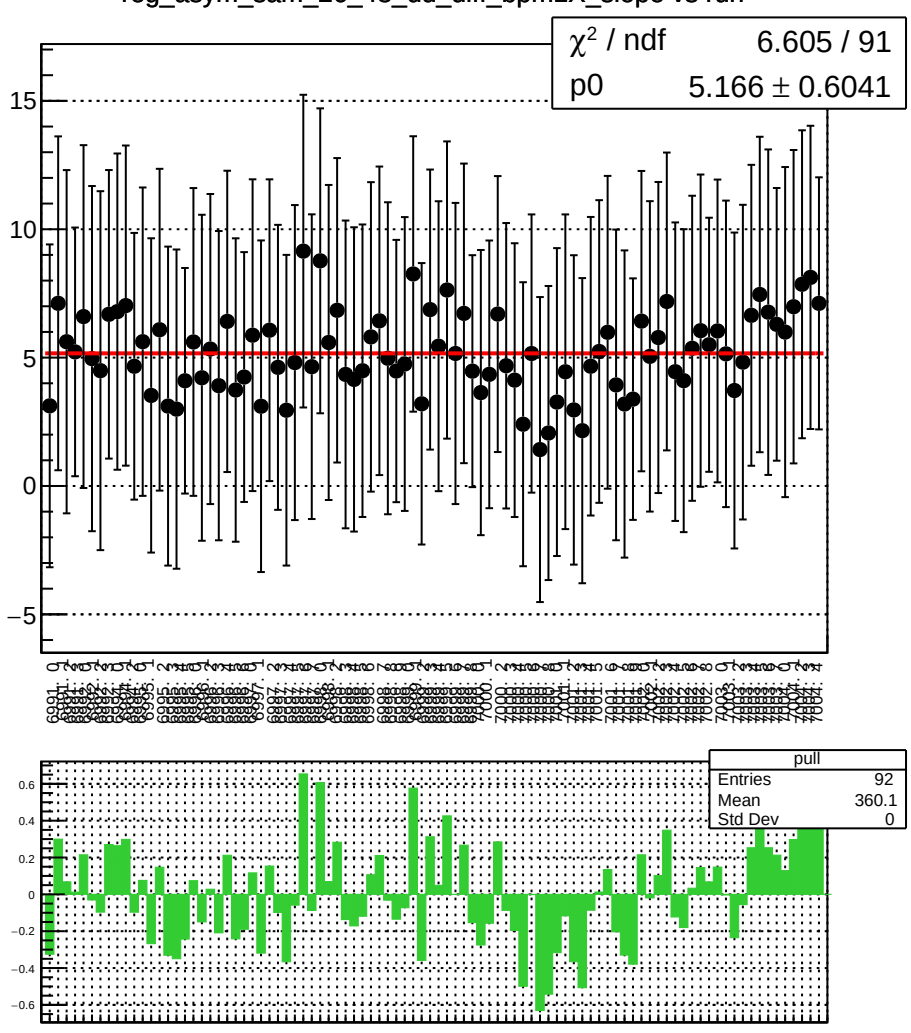

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.981 / 91
p0 −2.312 ± 0.7295
pull
Entries 92
Mean −70.42
Std Dev 0
pull1D
Entries 92
Mean −0.01713
Std Dev 0.2073

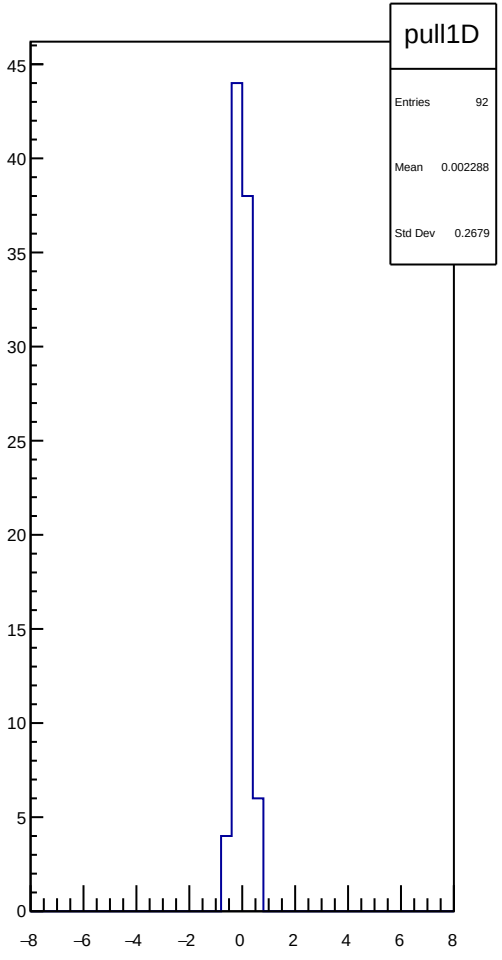

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.071 / 91
p0 −79.03 ± 0.9896
pull
Entries 92
Mean 2.943e+04
Std Dev 0
pull1D
Entries 92
Mean −8.775e−06
Std Dev 0.2104

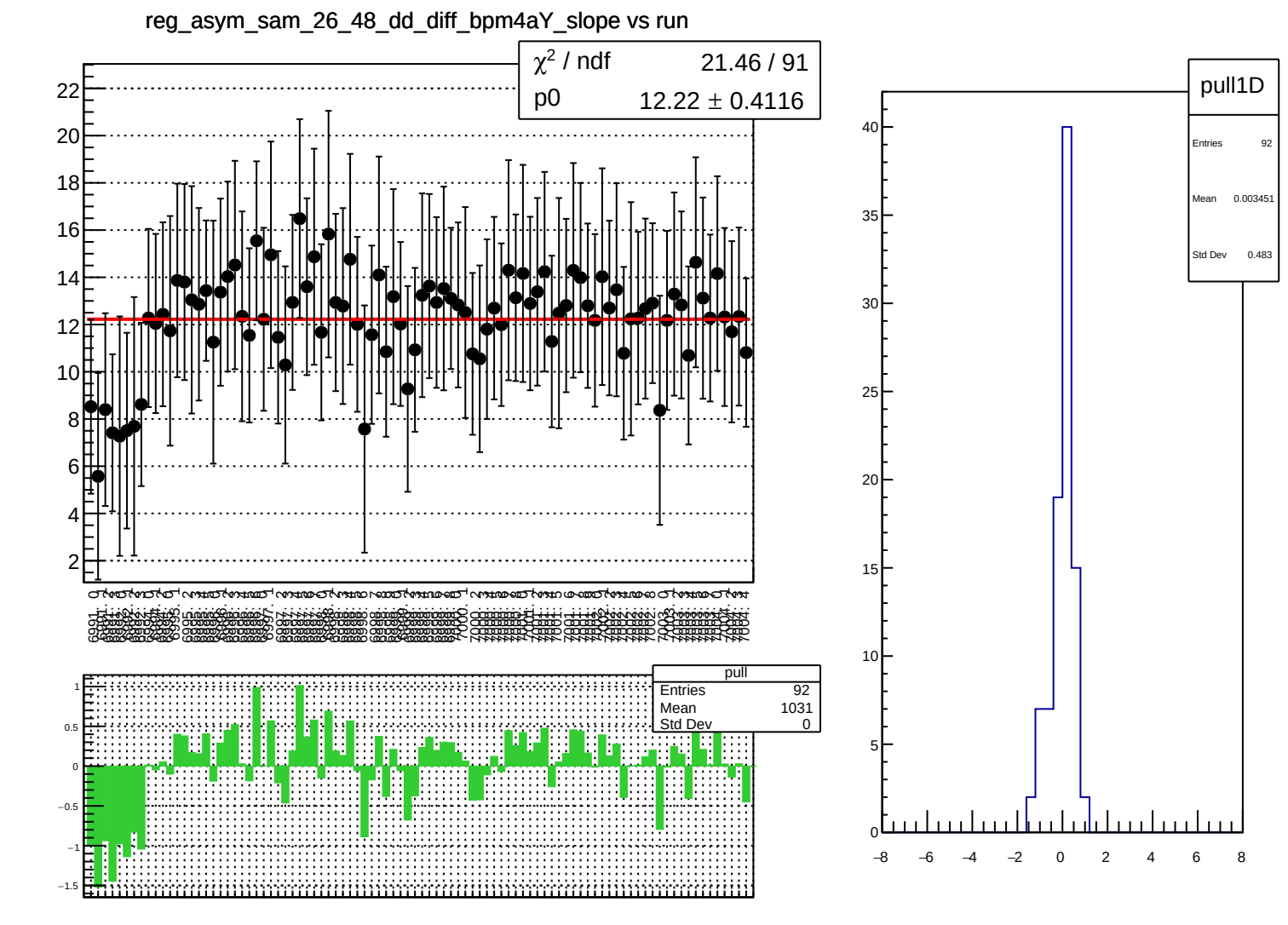

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.905 / 91
p0 −17.07 ± 0.7673
pull
Entries 92
Mean −113
Std Dev 0
pull1D
Entries 92
Mean 0.01233
Std Dev 0.2057

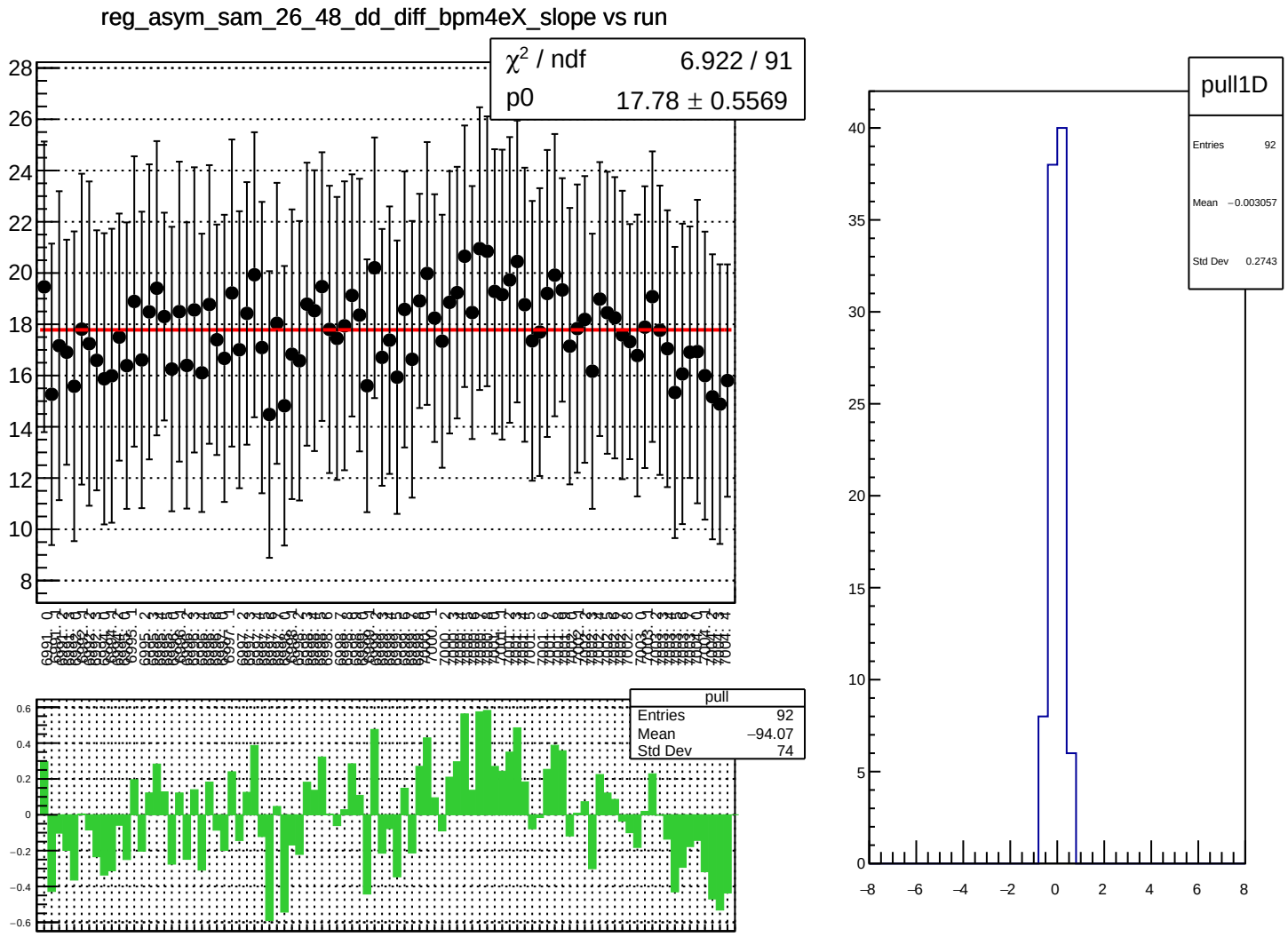

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.781 / 91
p0 0.2372 ± 0.03444
pull
Entries 92
Mean −8402
Std Dev 0

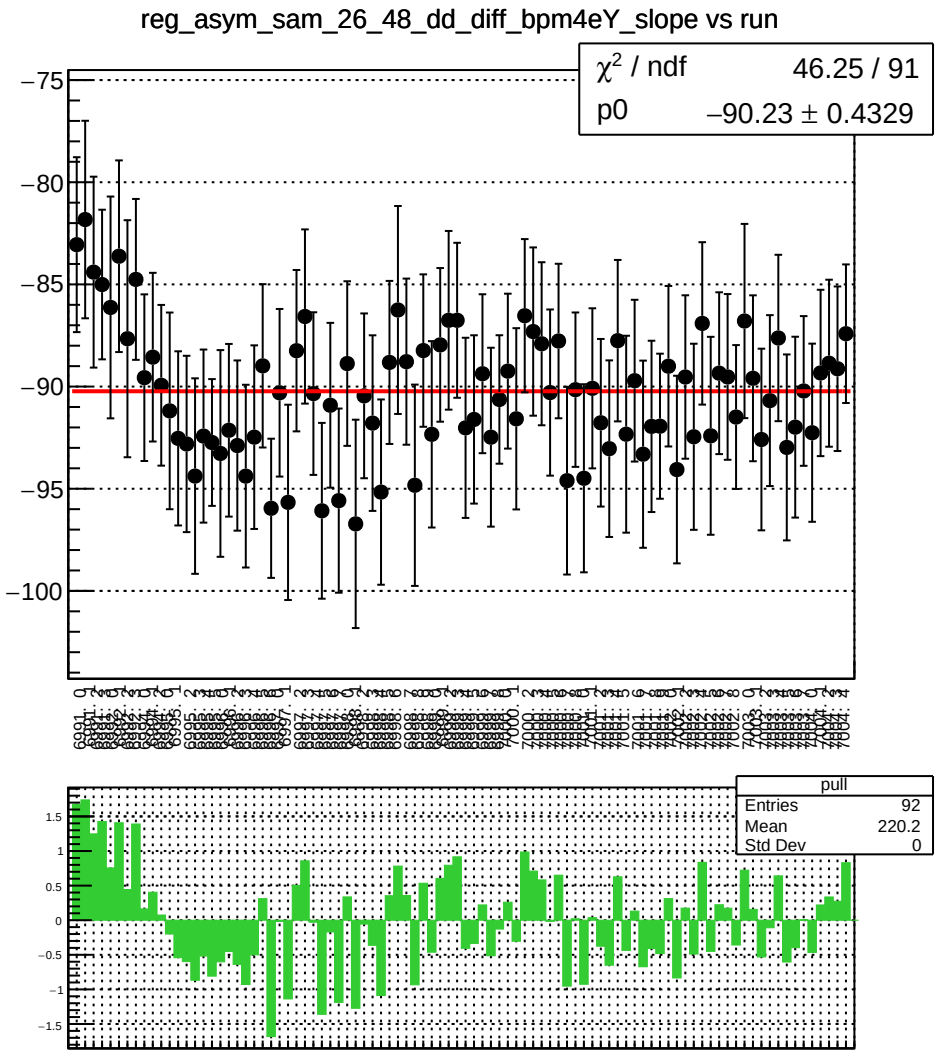

pull1D
Entries 92
Mean 5.413e−05
Std Dev 0.2027

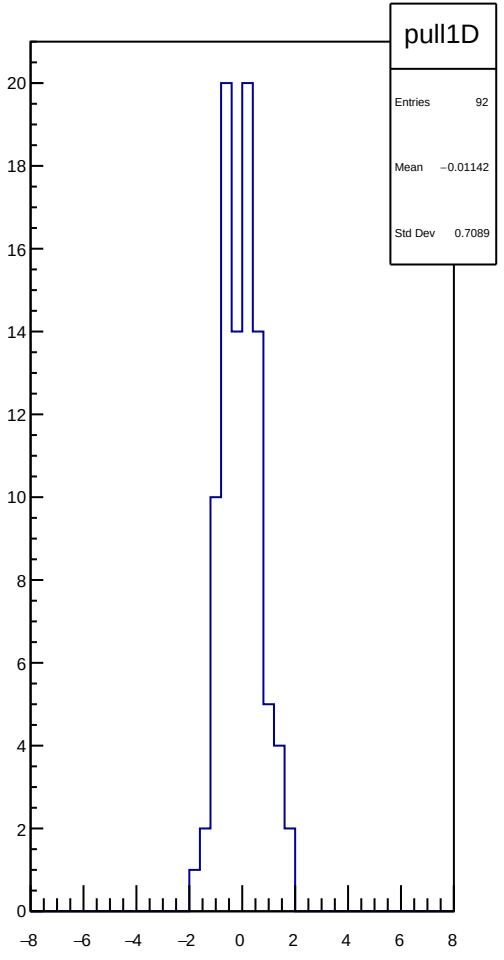

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.605 / 91
p0 5.166 ± 0.6041
pull
Entries 92
Mean 360.1
Std Dev 0

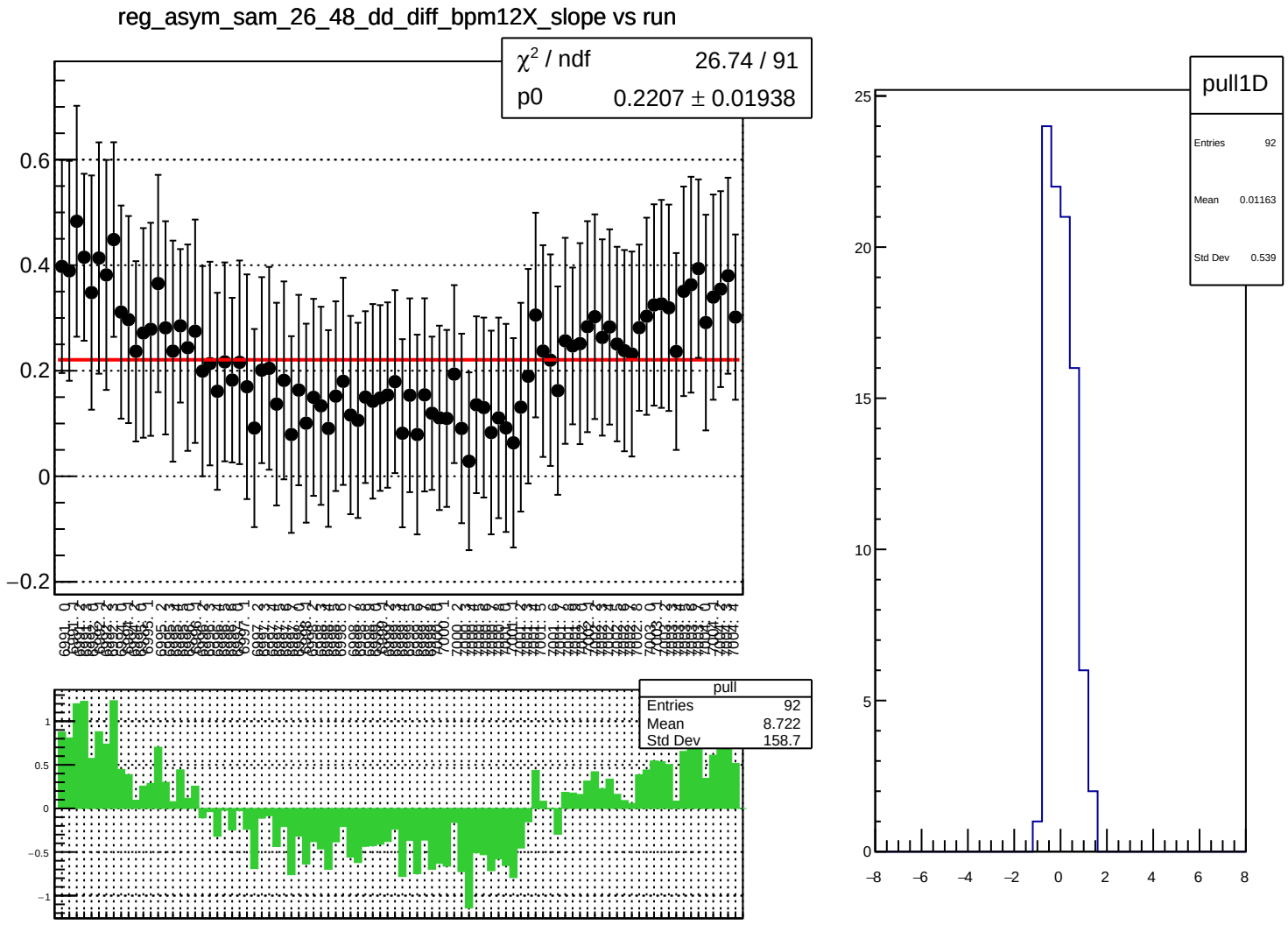

pull1D
Entries 92
Mean 0.002288
Std Dev 0.2679

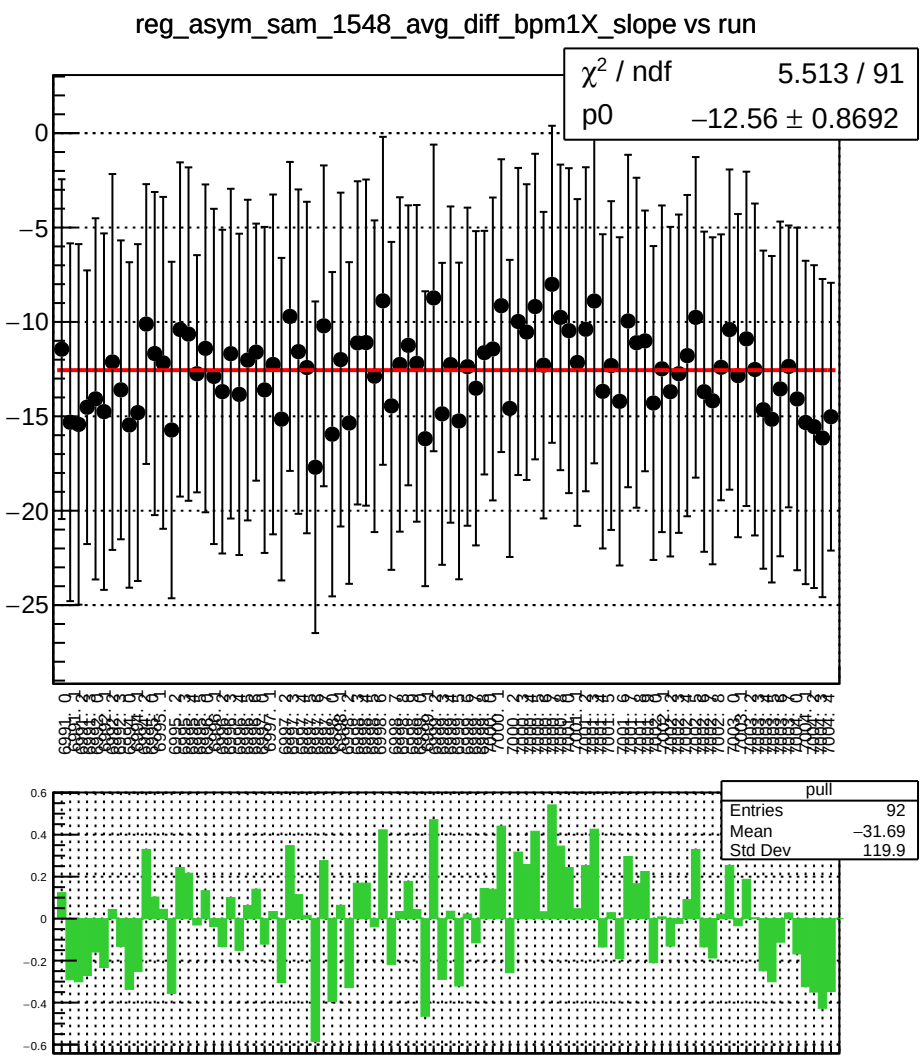

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.46 / 91
p0 12.22 ± 0.4116
pull
Entries 92
Mean 1031
Std Dev 0
pull1D
Entries 92
Mean 0.003451
Std Dev 0.483

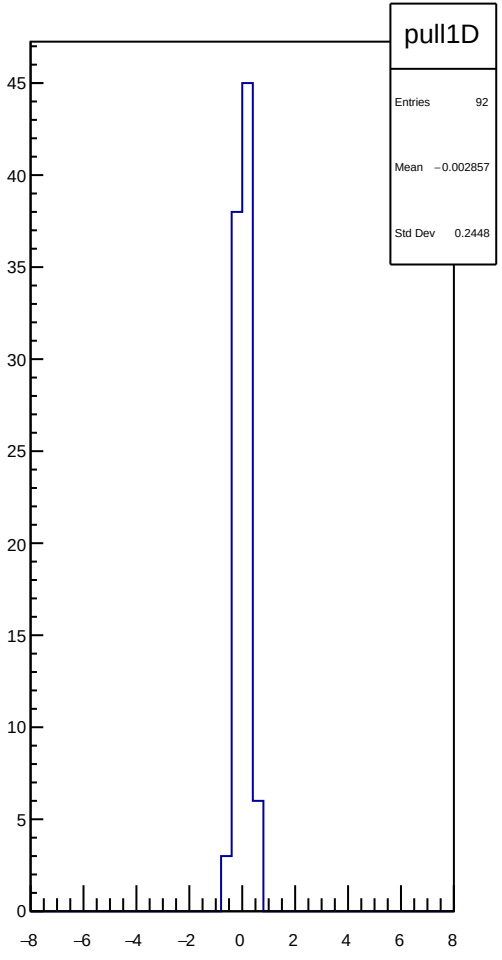

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.922 / 91
p0 17.78 ± 0.5569
pull
Entries 92
Mean −94.07
Std Dev 74
pull1D
Entries 92
Mean −0.003057
Std Dev 0.2743

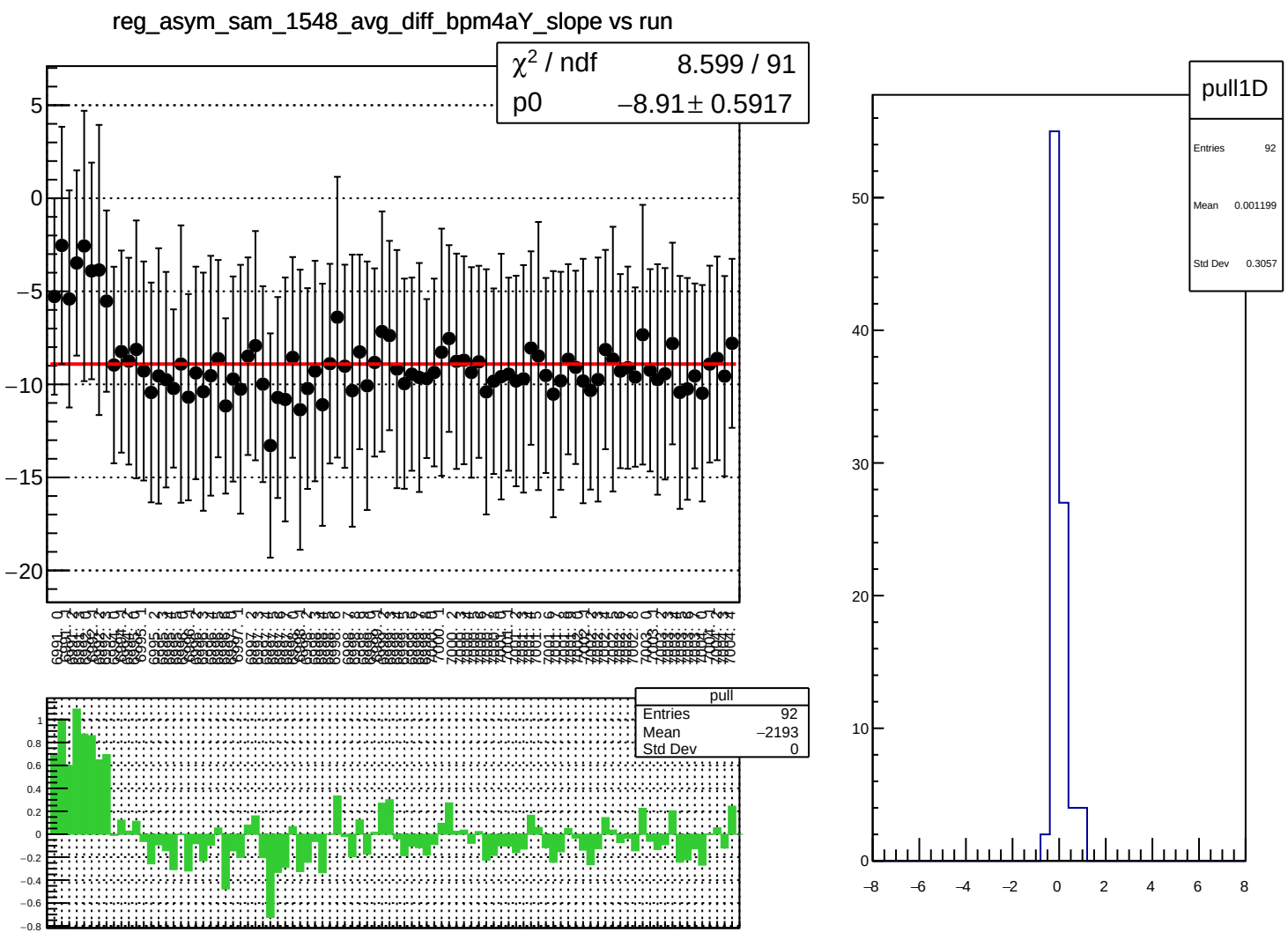

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.25 / 91
p0 −90.23 ± 0.4329
pull
Entries 92
Mean 220.2
Std Dev 0

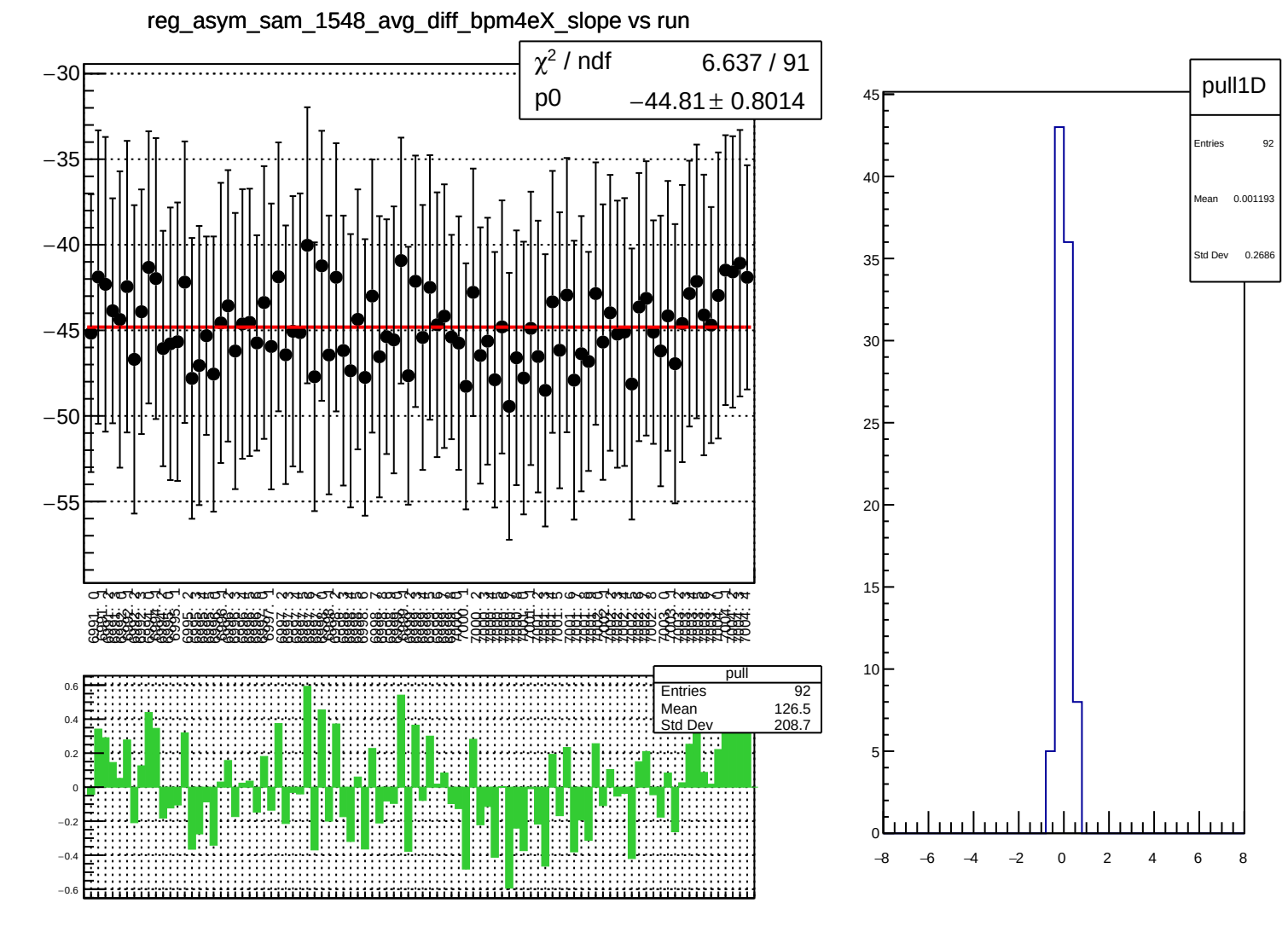

pull1D
Entries 92
Mean −0.01142
Std Dev 0.7089

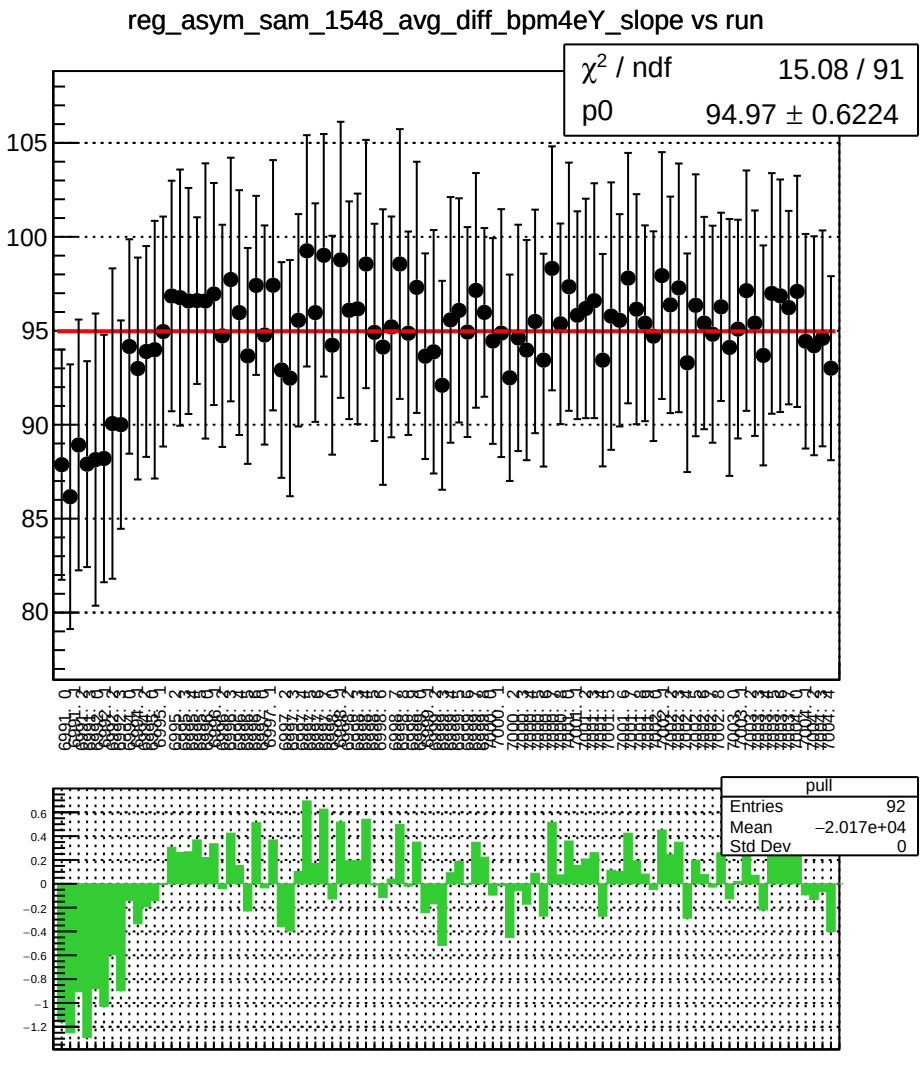

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 26.74 / 91
p0 0.2207 ± 0.01938
pull
Entries 92
Mean 8.722
Std Dev 158.7
pull1D
Entries 92
Mean 0.01163
Std Dev 0.539

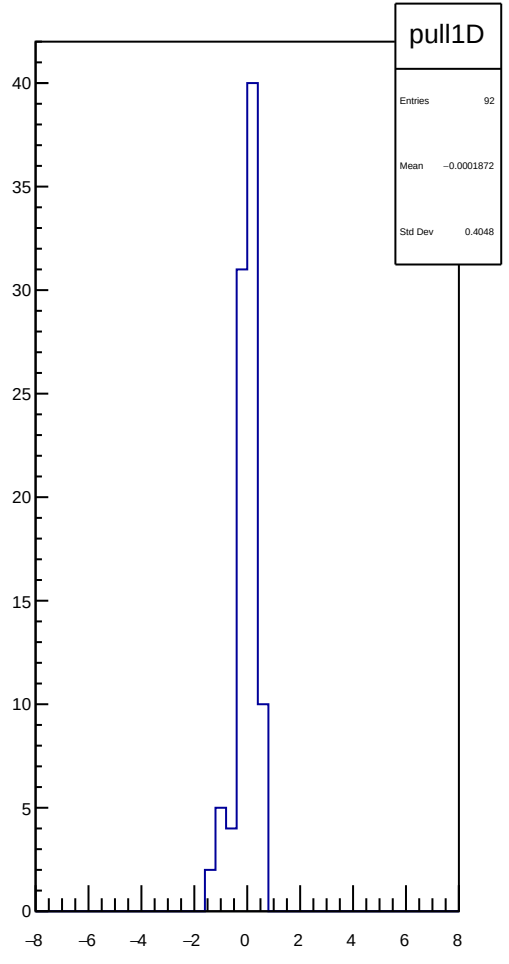

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 5.513 / 91
p0 −12.56 ± 0.8692
pull
Entries 92
Mean −31.69
Std Dev 119.9

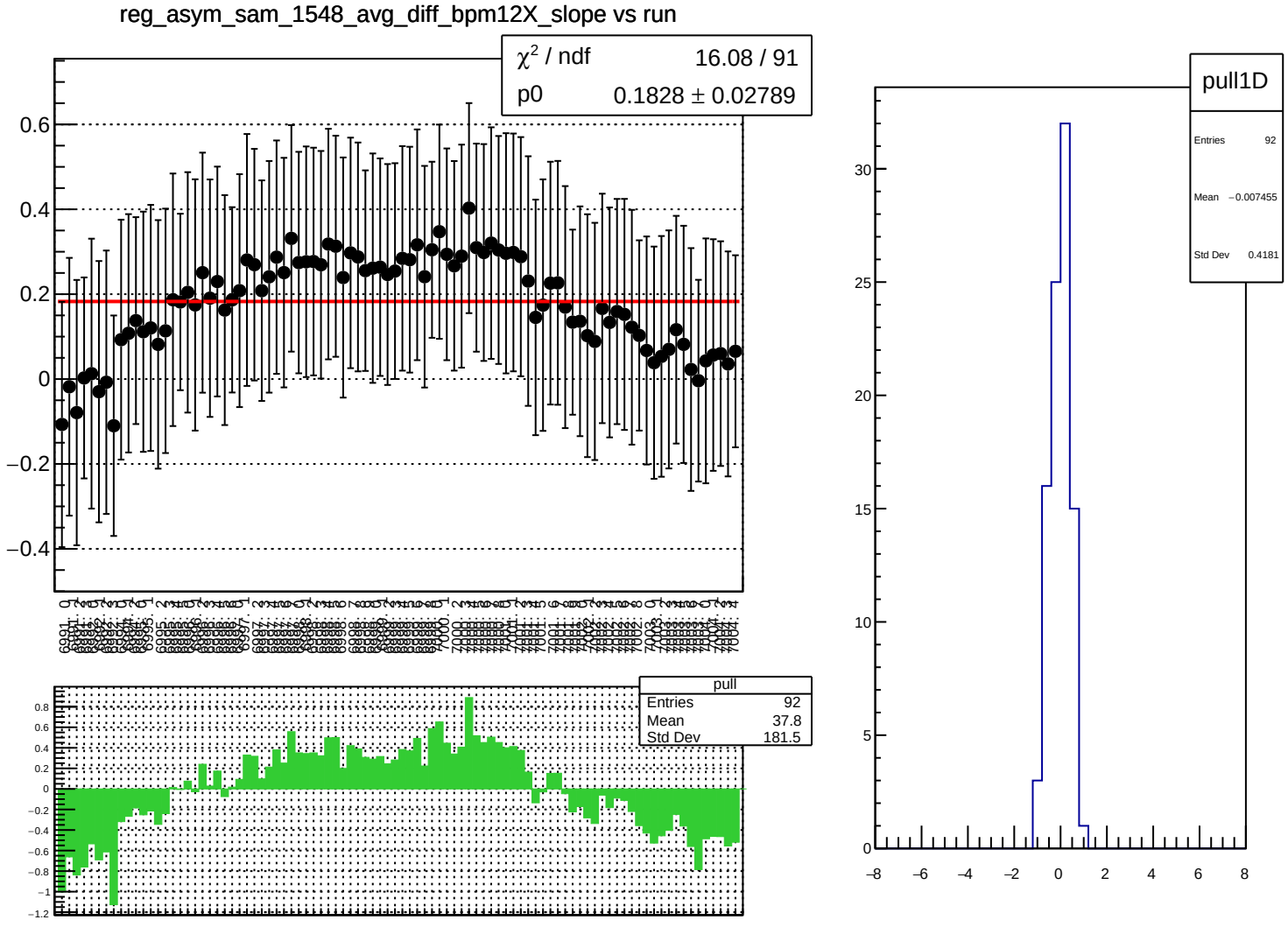

pull1D
Entries 92
Mean −0.002857
Std Dev 0.2448

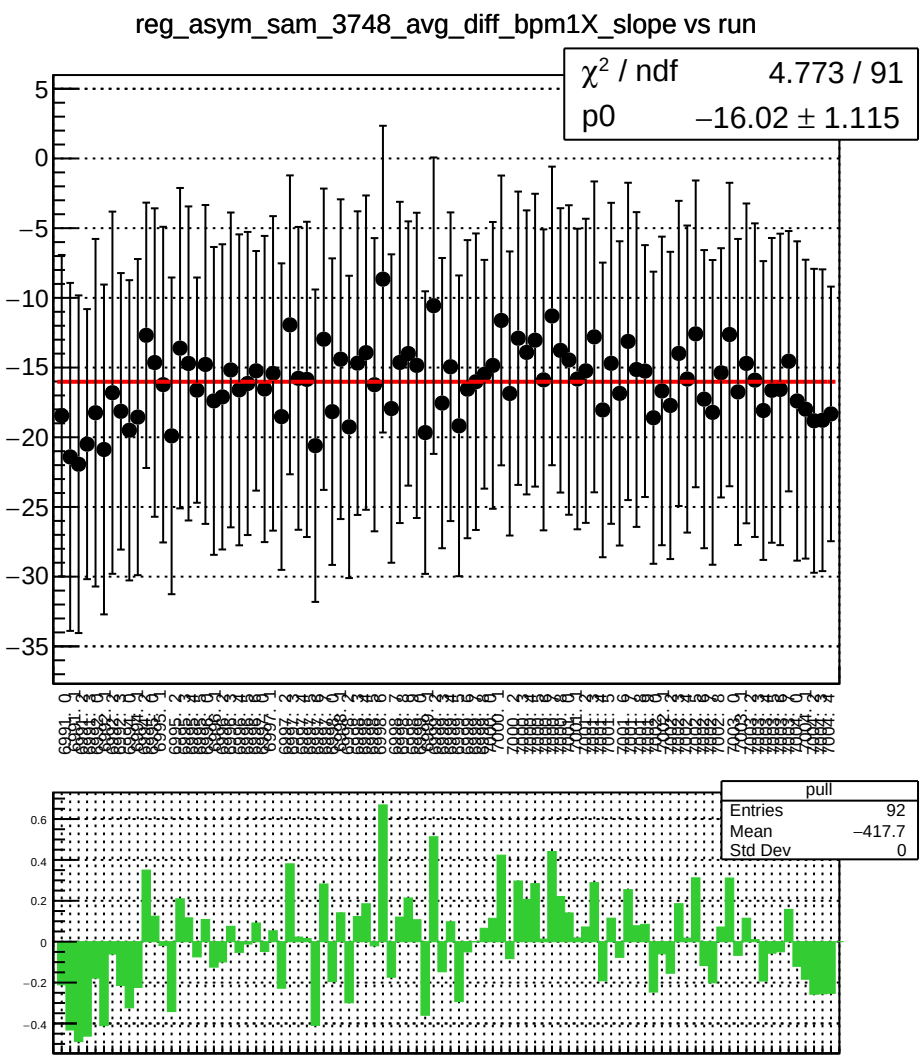

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.599 / 91
p0 −8.91 ± 0.5917
pull
Entries 92
Mean −2193
Std Dev 0
pull1D
Entries 92
Mean 0.001199
Std Dev 0.3057

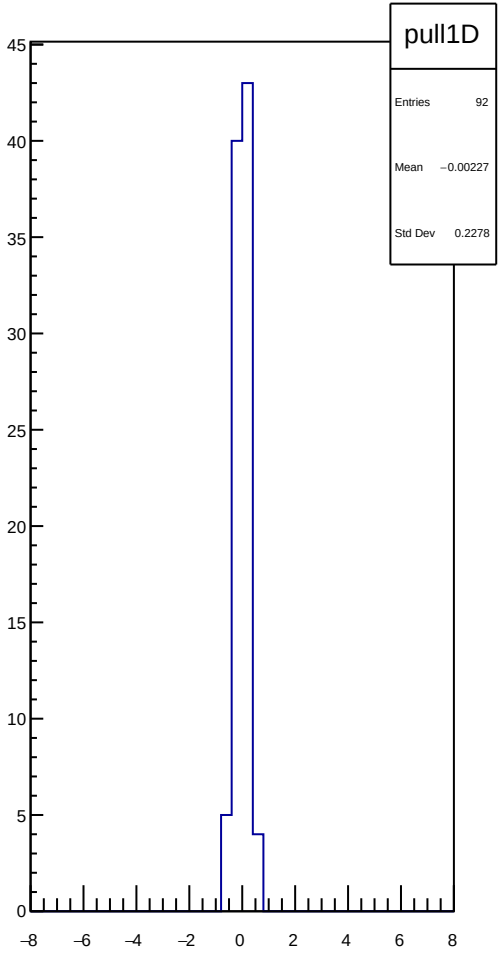

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.637 / 91
p0 −44.81 ± 0.8014
pull
Entries 92
Mean 126.5
Std Dev 208.7
pull1D
Entries 92
Mean 0.001193
Std Dev 0.2686

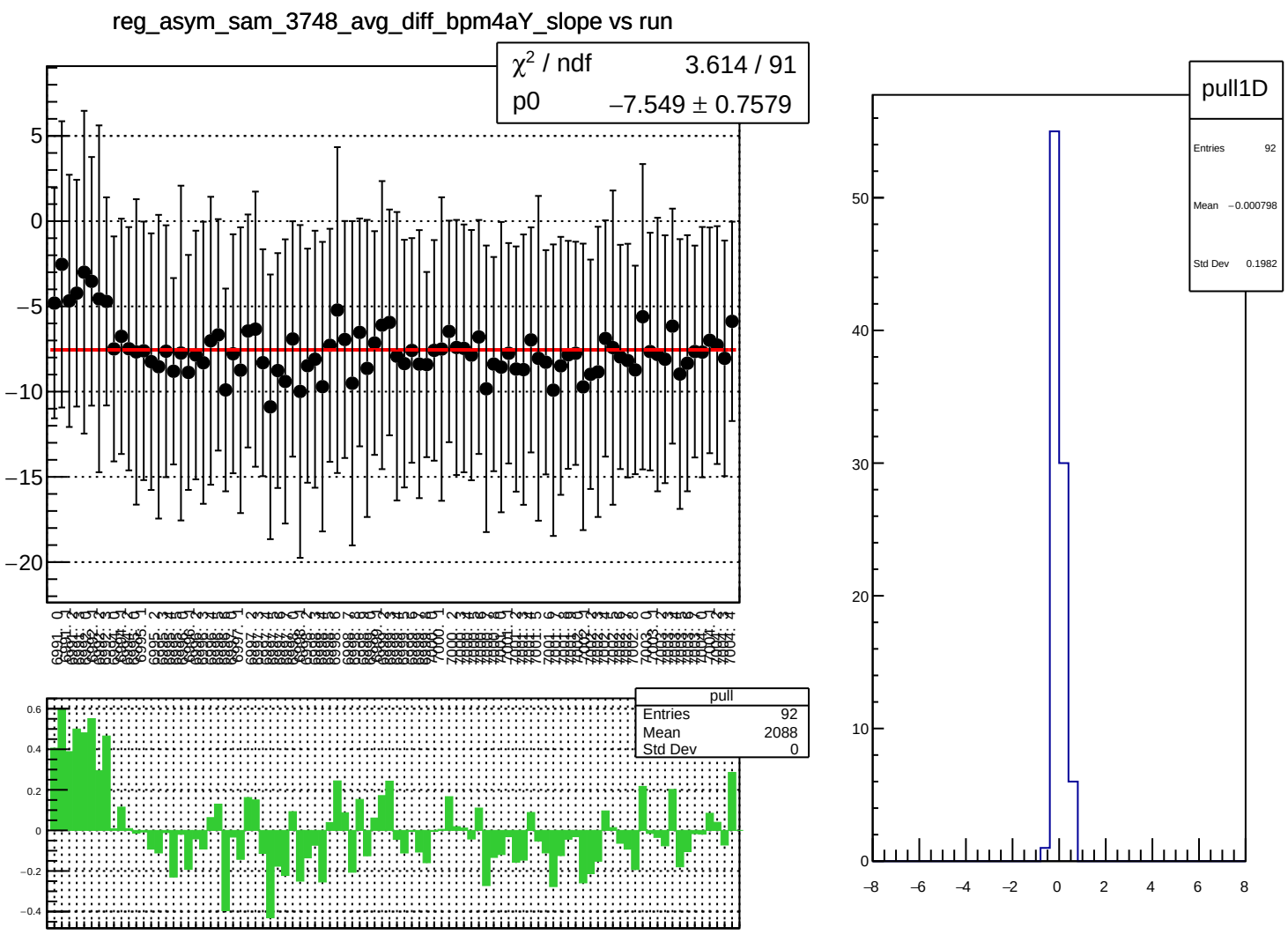

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.08 / 91
p0 94.97 ± 0.6224
105
100
95
90
85
80
pull
Entries 92
Mean −2.017e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

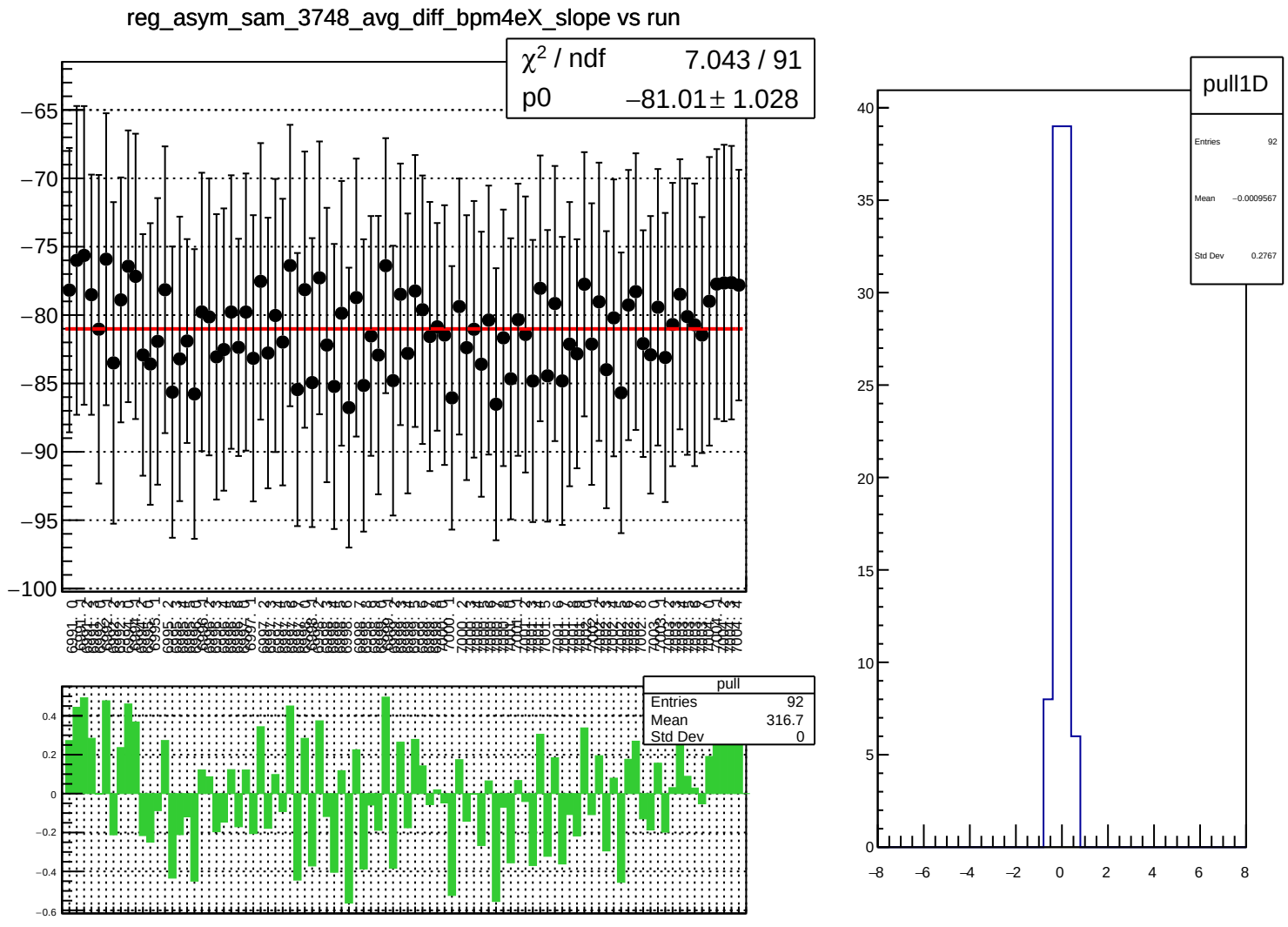

pull1D
Entries 92
Mean −0.0001872
Std Dev 0.4048
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

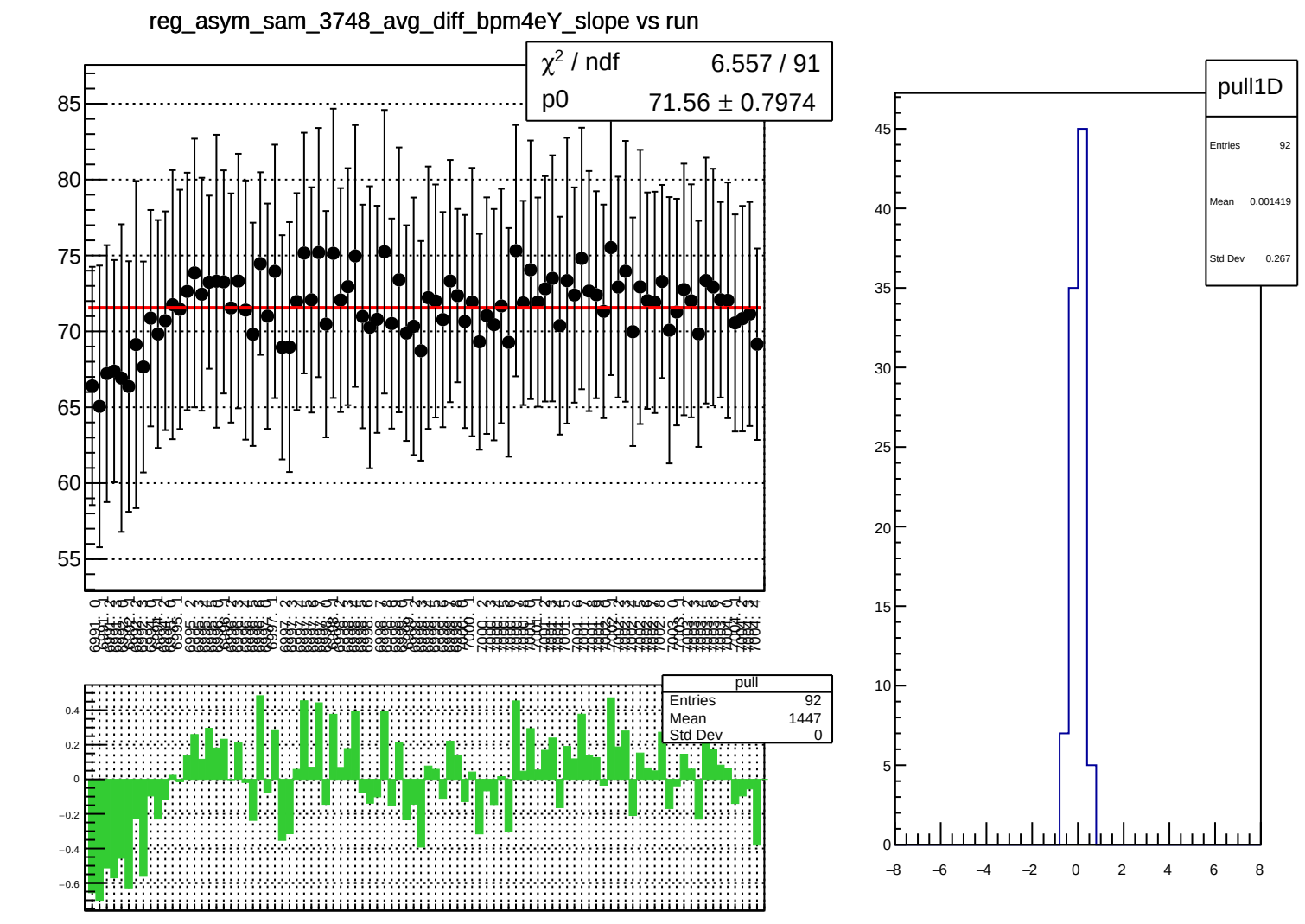

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 16.08 / 91
p0 0.1828 ± 0.02789
pull
Entries 92
Mean 37.8
Std Dev 181.5
pull1D
Entries 92
Mean −0.007455
Std Dev 0.4181

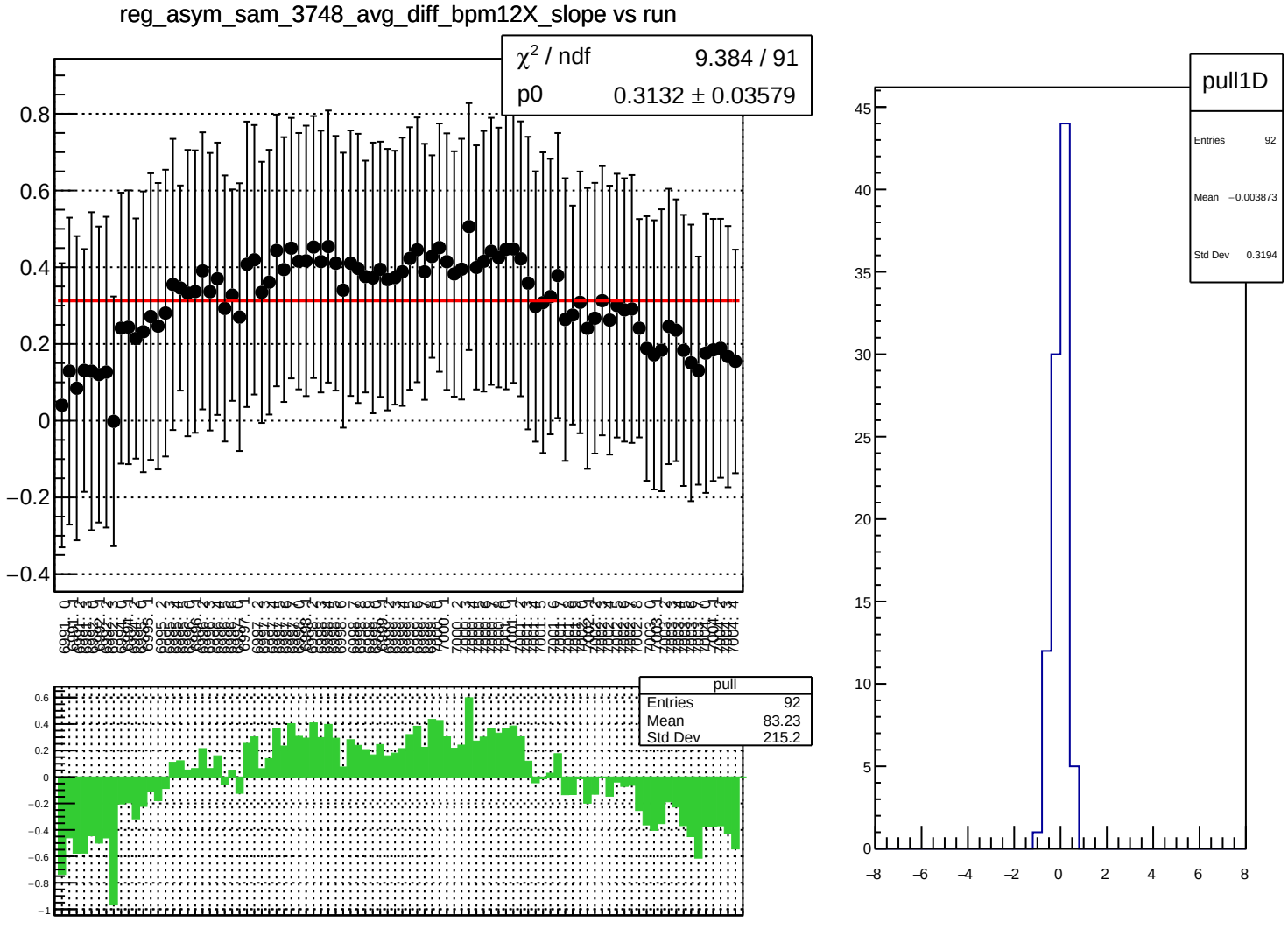

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 4.773 / 91
p0 −16.02 ± 1.115
pull
Entries 92
Mean −417.7
Std Dev 0

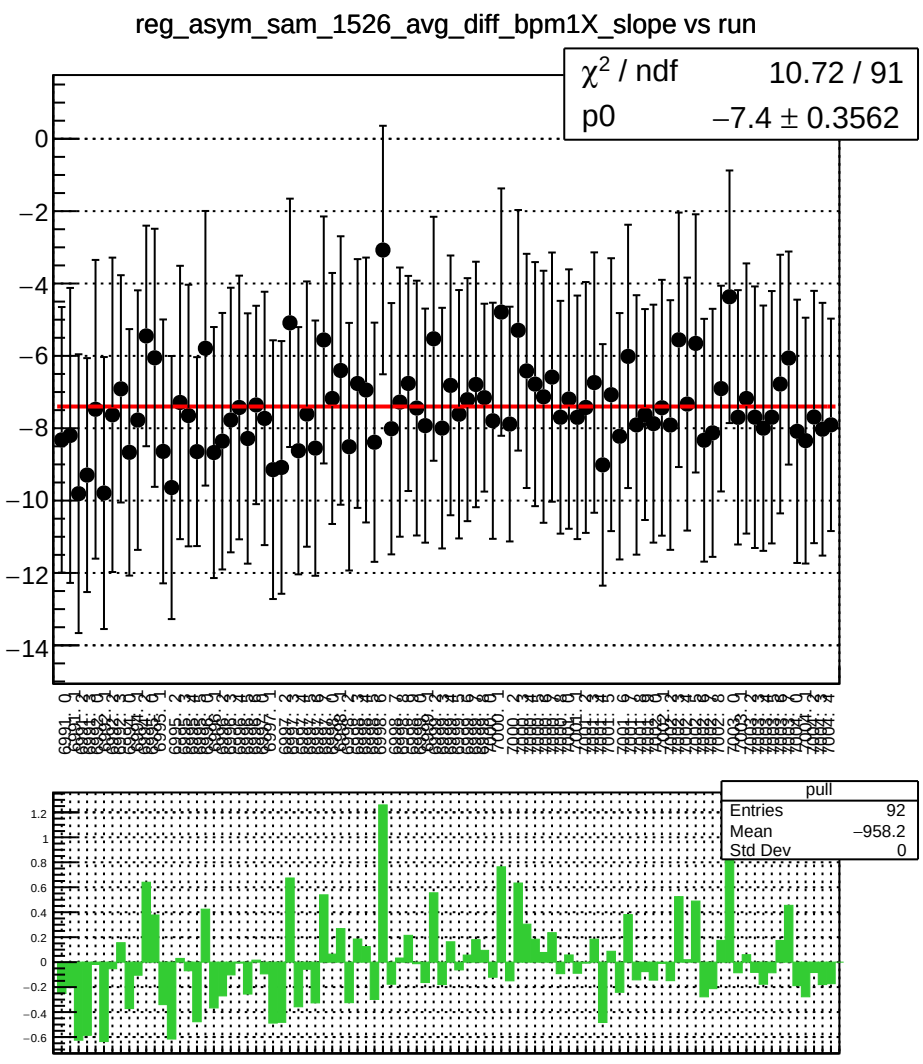

pull1D
Entries 92
Mean −0.00227
Std Dev 0.2278

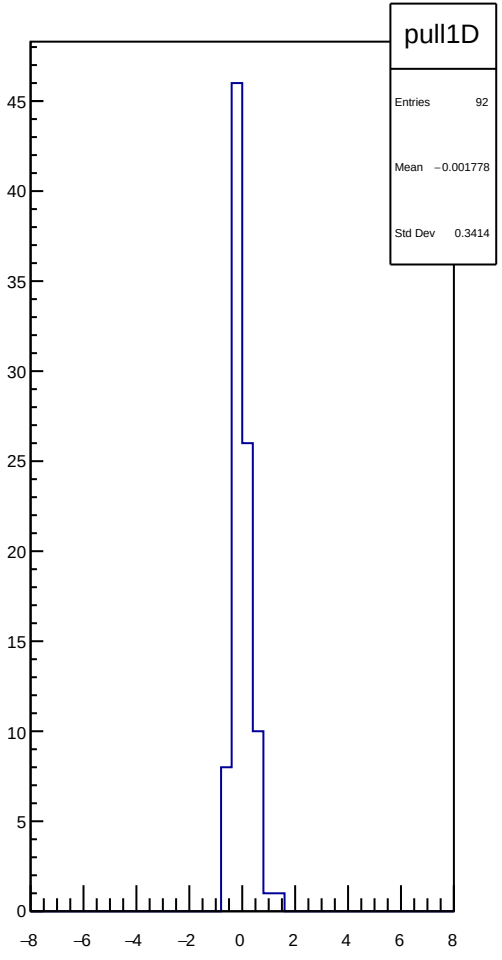

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.614 / 91
p0 −7.549 ± 0.7579
pull
Entries 92
Mean 2088
Std Dev 0
pull1D
Entries 92
Mean −0.000798
Std Dev 0.1982

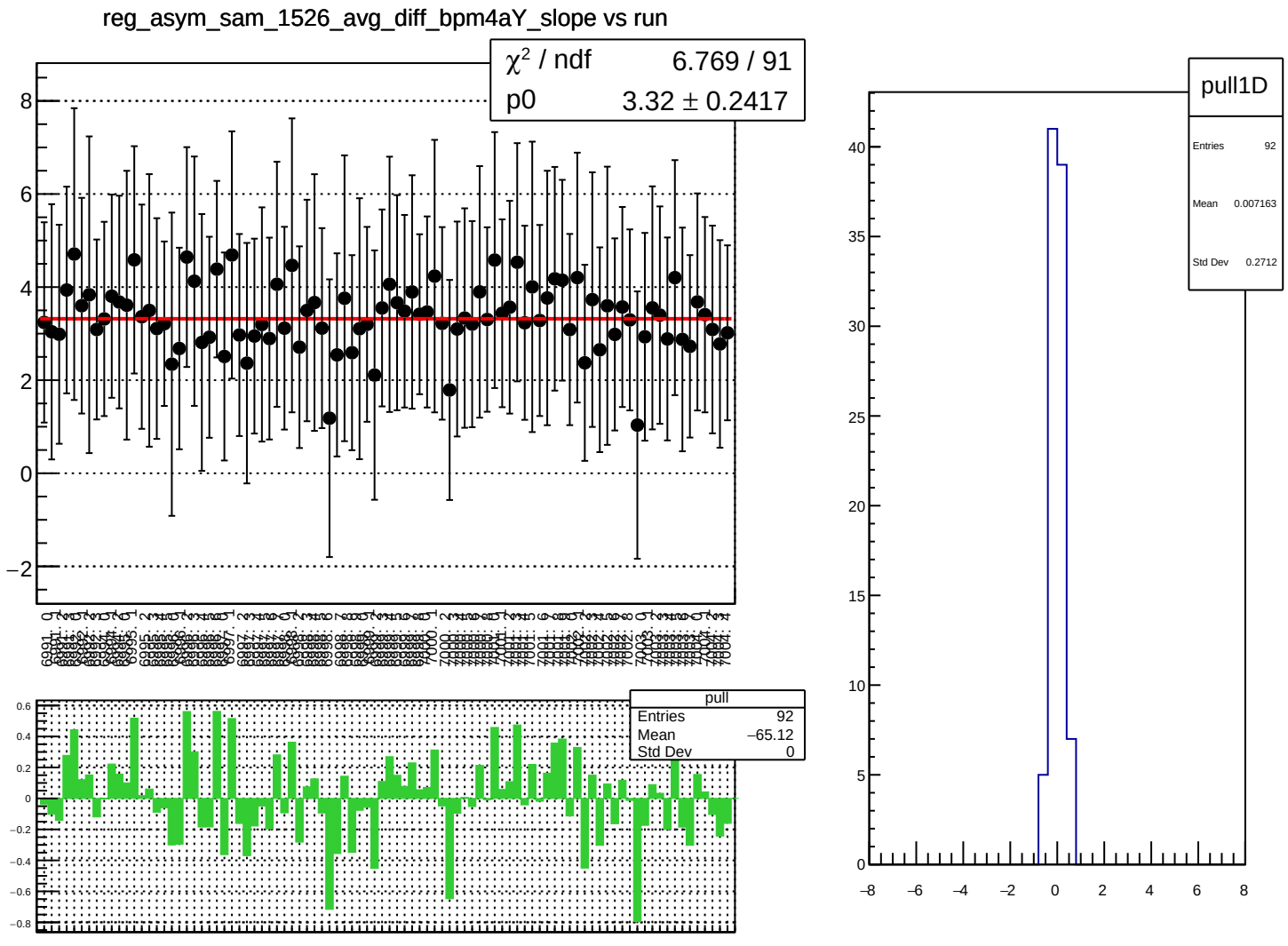

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.043 / 91
p0 −81.01± 1.028
−65
−70
−75
−80
−85
−90
−95
−100
pull
Entries 92
Mean 316.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.0009567
Std Dev 0.2767
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

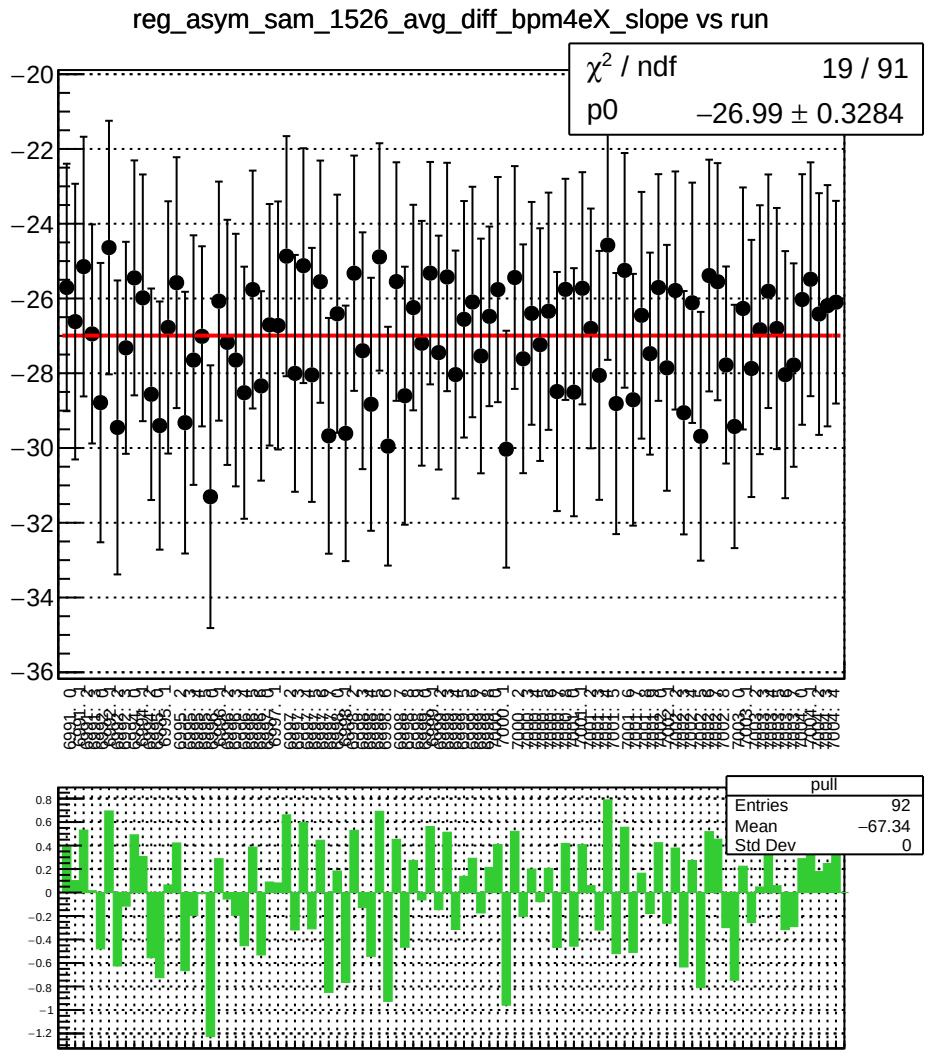

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.557 / 91
p0 71.56 ± 0.7974
85
80
75
70
65
60
55
pull
Entries 92
Mean 1447
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.001419
Std Dev 0.267
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

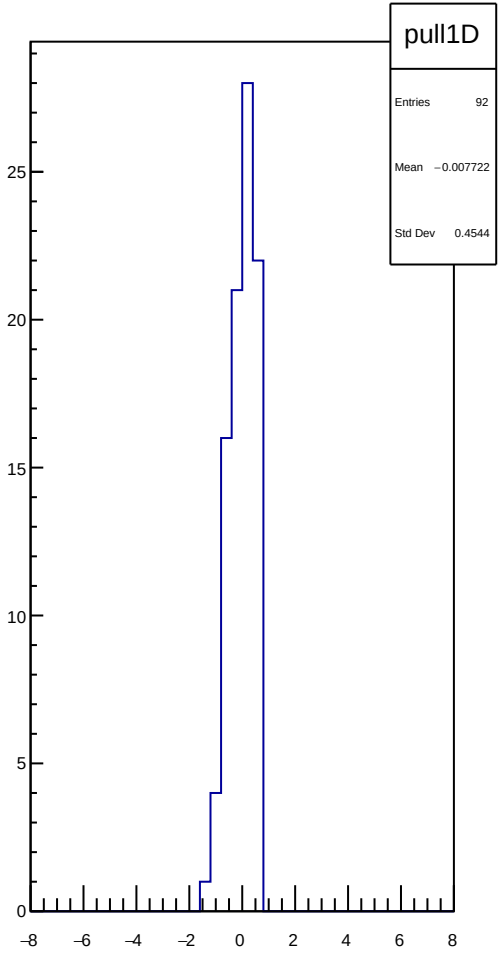

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 9.384 / 91
p0 0.3132 ± 0.03579
pull
Entries 92
Mean 83.23
Std Dev 215.2
pull1D
Entries 92
Mean −0.003873
Std Dev 0.3194

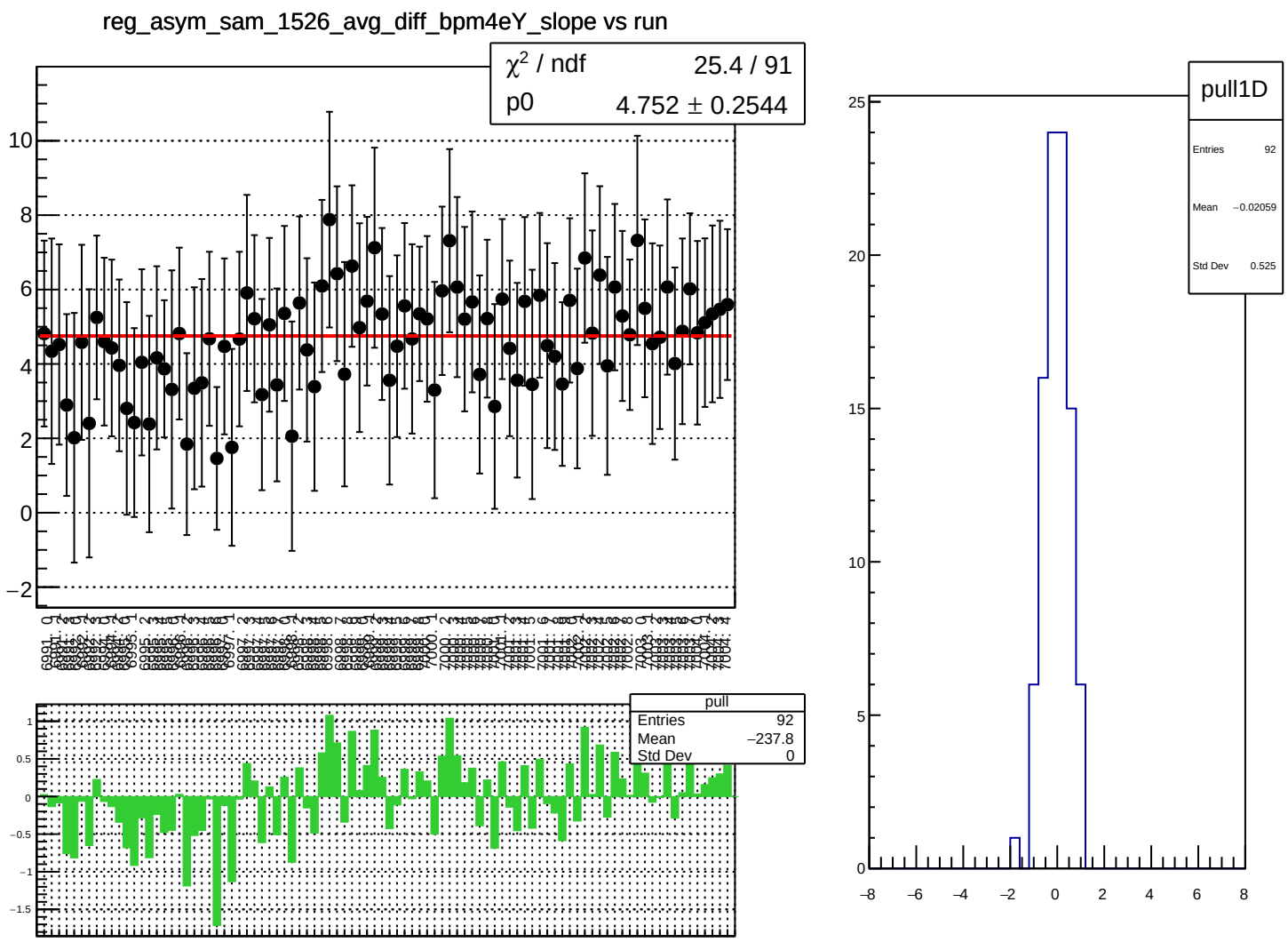

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 10.72 / 91
p0 −7.4 ± 0.3562
pull
Entries 92
Mean −958.2
Std Dev 0

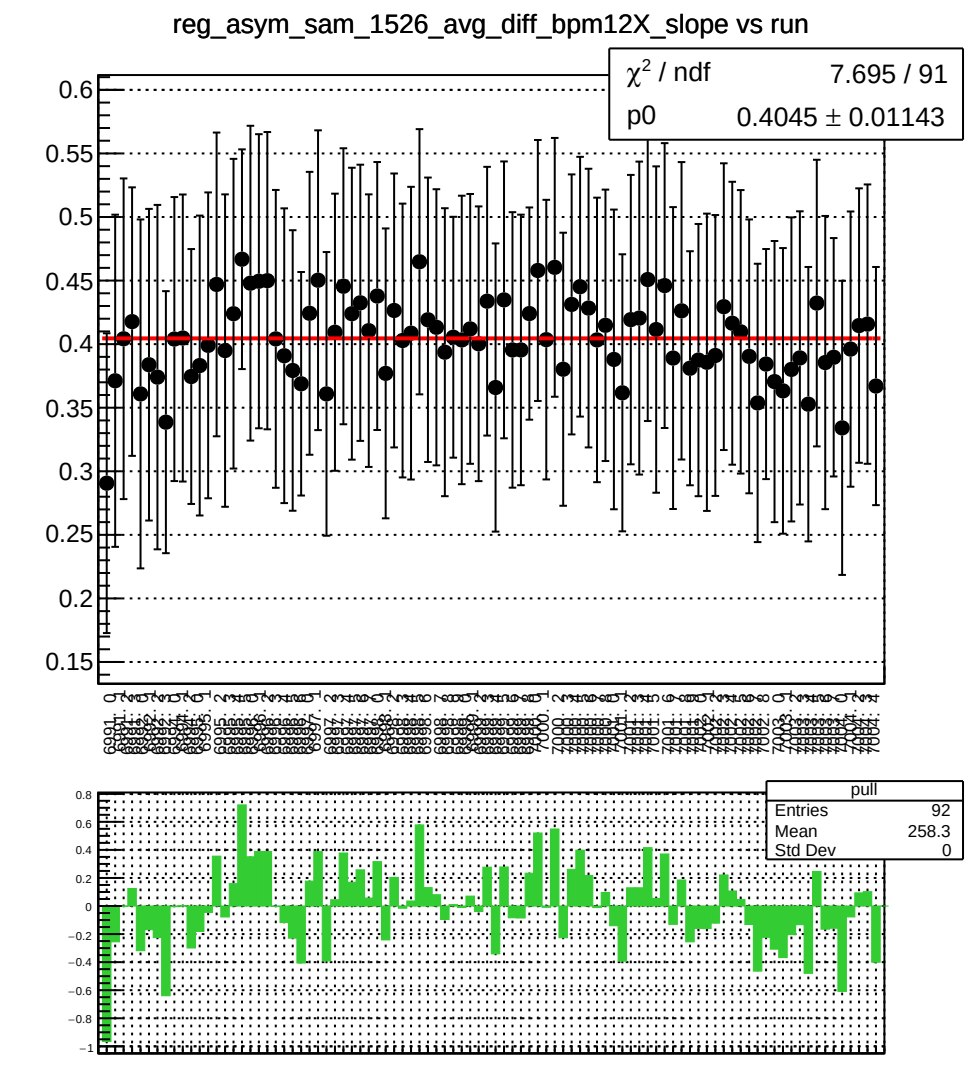

pull1D
Entries 92
Mean −0.001778
Std Dev 0.3414

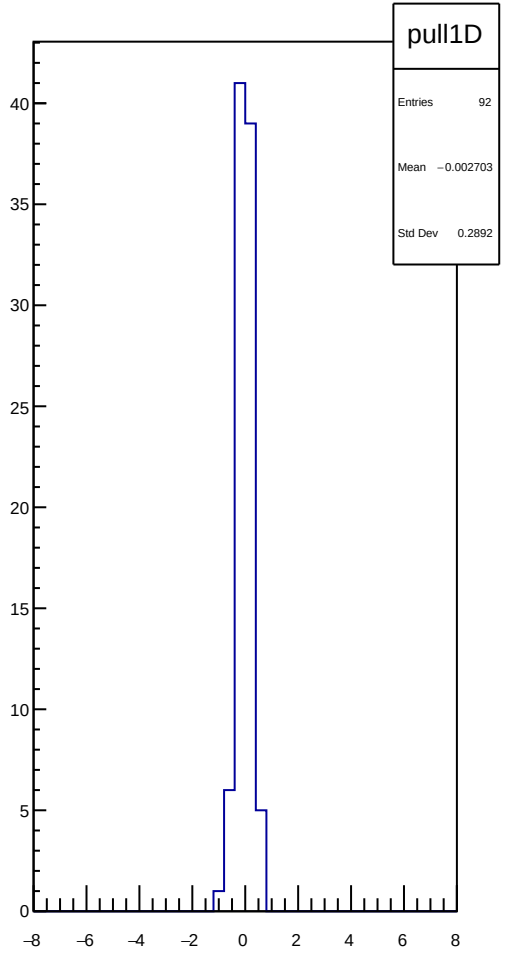

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.769 / 91
p0 3.32 ± 0.2417
pull
Entries 92
Mean −65.12
Std Dev 0
pull1D
Entries 92
Mean 0.007163
Std Dev 0.2712

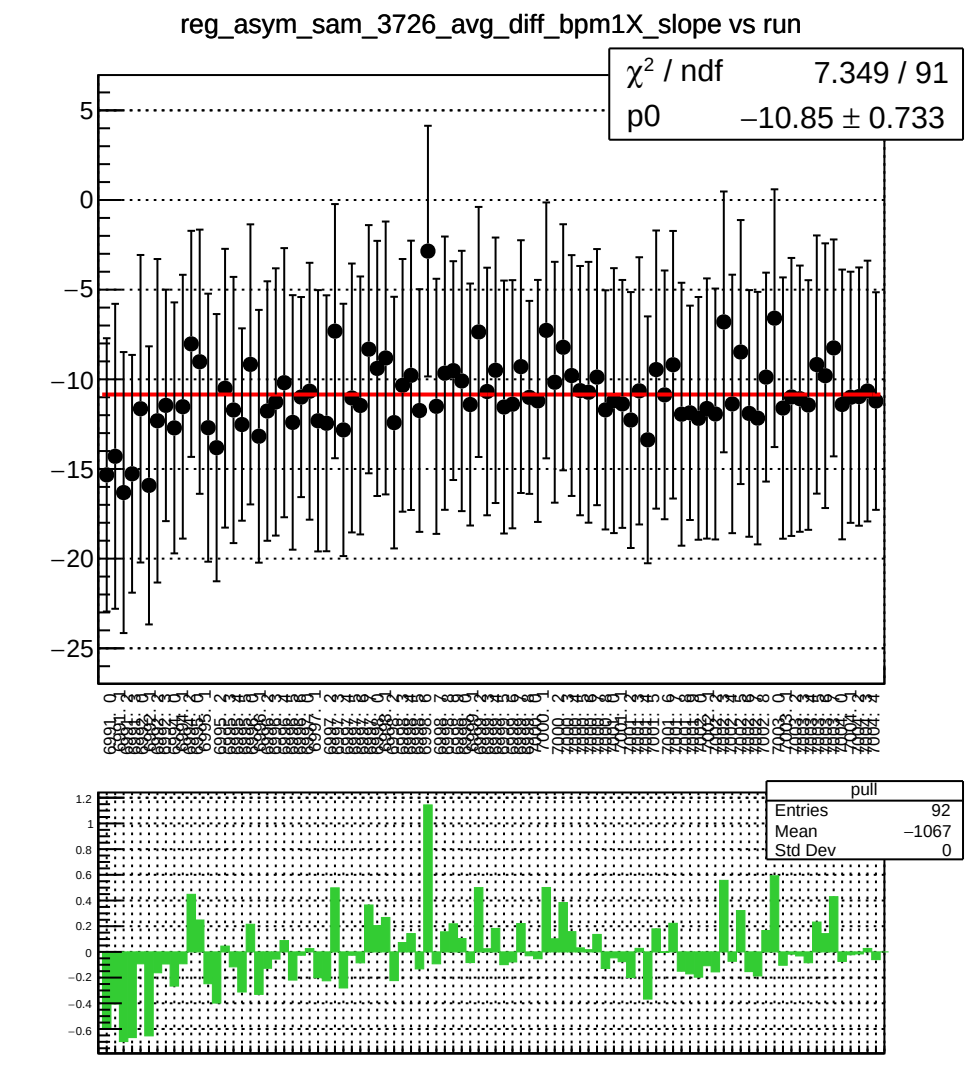

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 19 / 91
p0 −26.99 ± 0.3284
pull
Entries 92
Mean −67.34
Std Dev 0

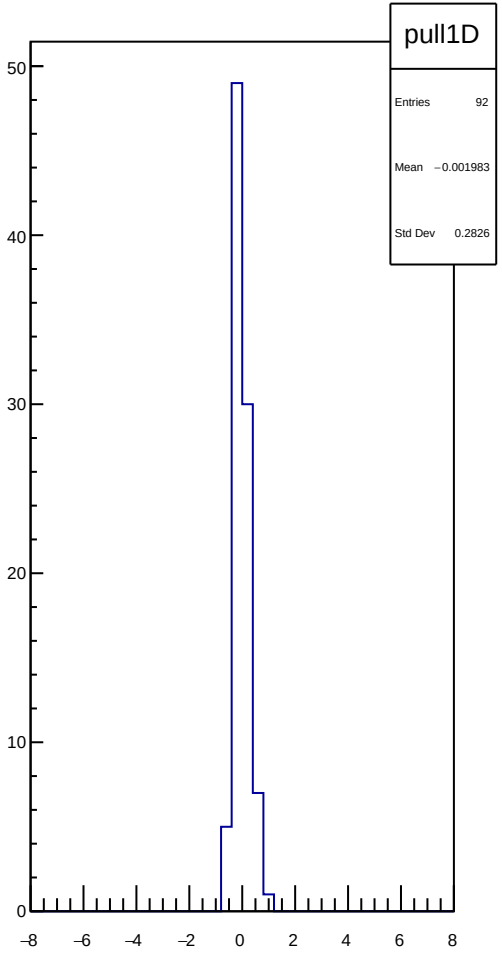

pull1D
Entries 92
Mean −0.007722
Std Dev 0.4544

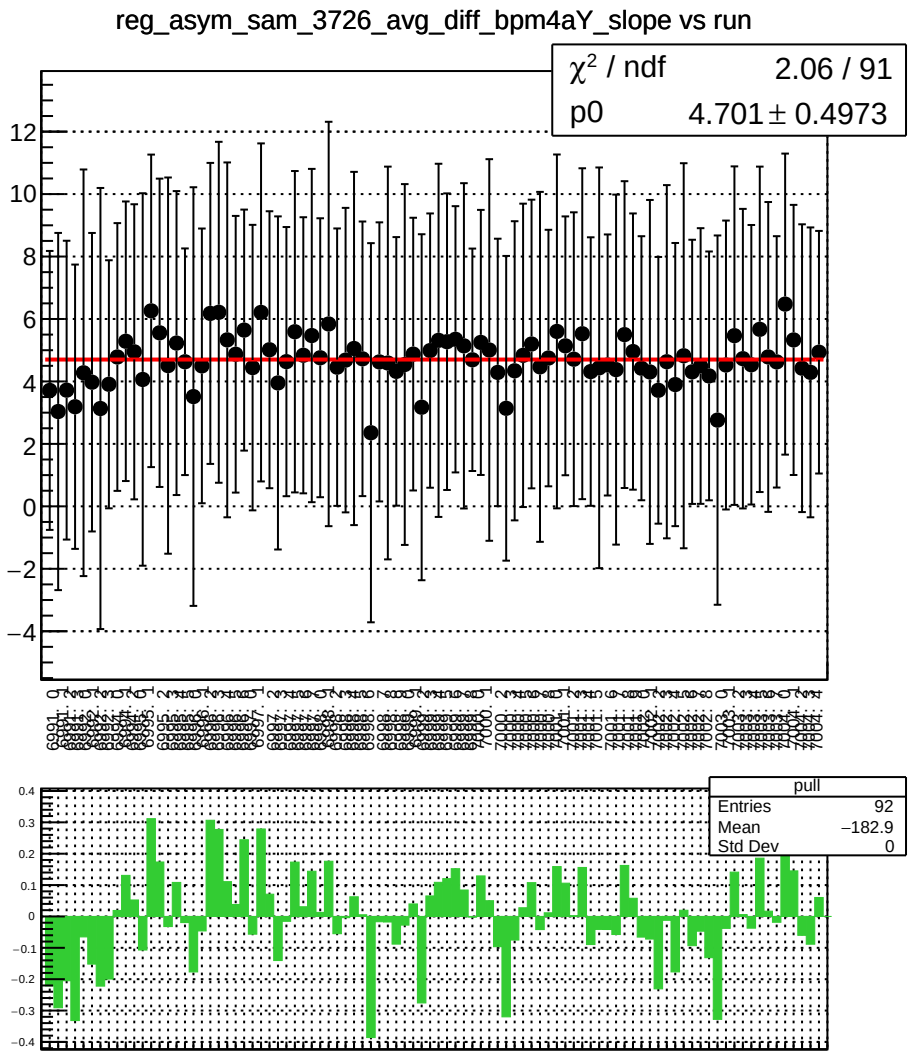

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.4 / 91
p0 4.752 ± 0.2544
pull
Entries 92
Mean −237.8
Std Dev 0
pull1D
Entries 92
Mean −0.02059
Std Dev 0.525

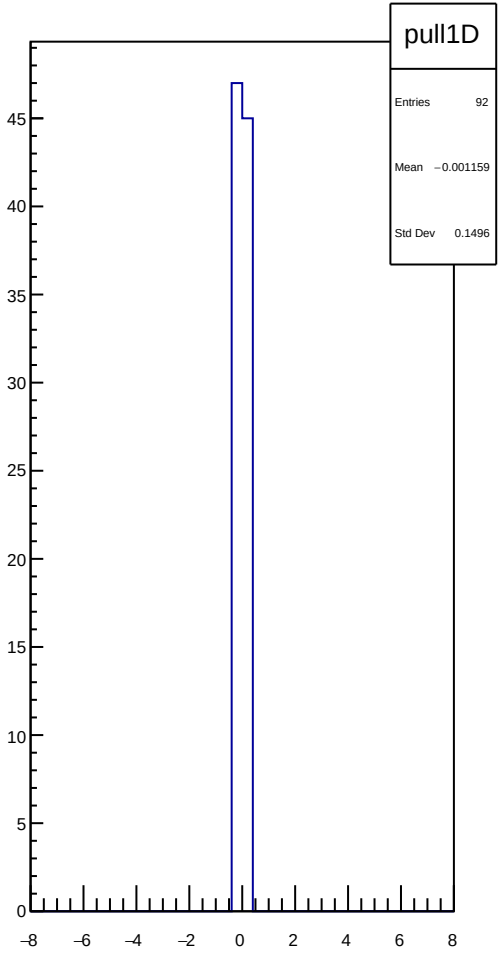

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 7.695 / 91
p0 0.4045 ± 0.01143
pull
Entries 92
Mean 258.3
Std Dev 0

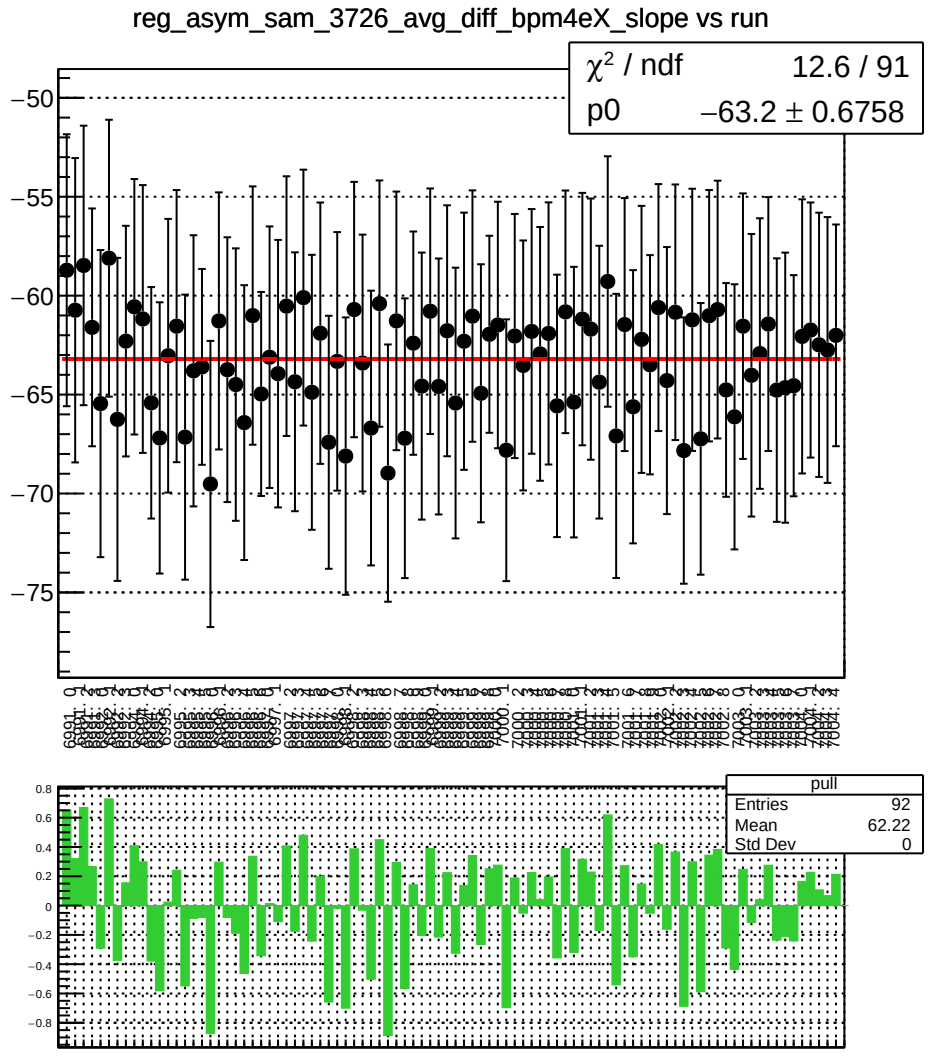

pull1D
Entries 92
Mean −0.002703
Std Dev 0.2892

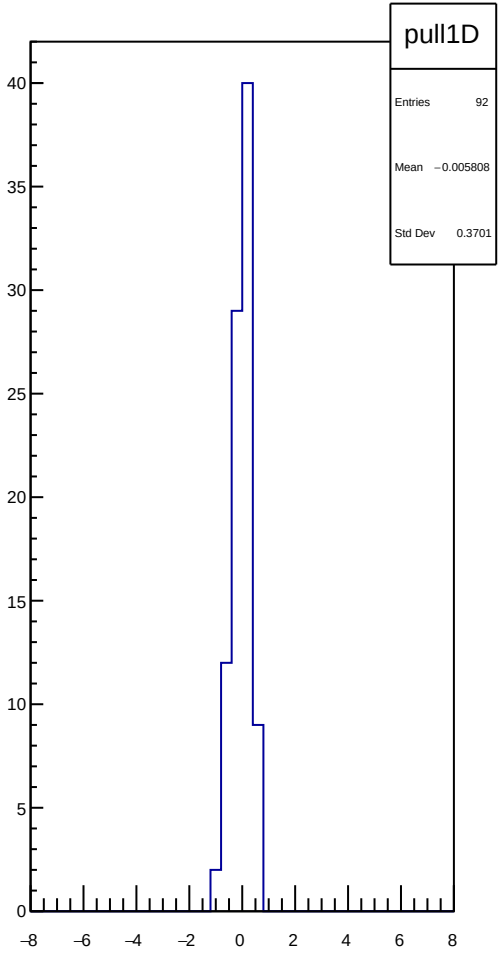

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 7.349 / 91
p0 −10.85 ± 0.733
pull
Entries 92
Mean −1067
Std Dev 0

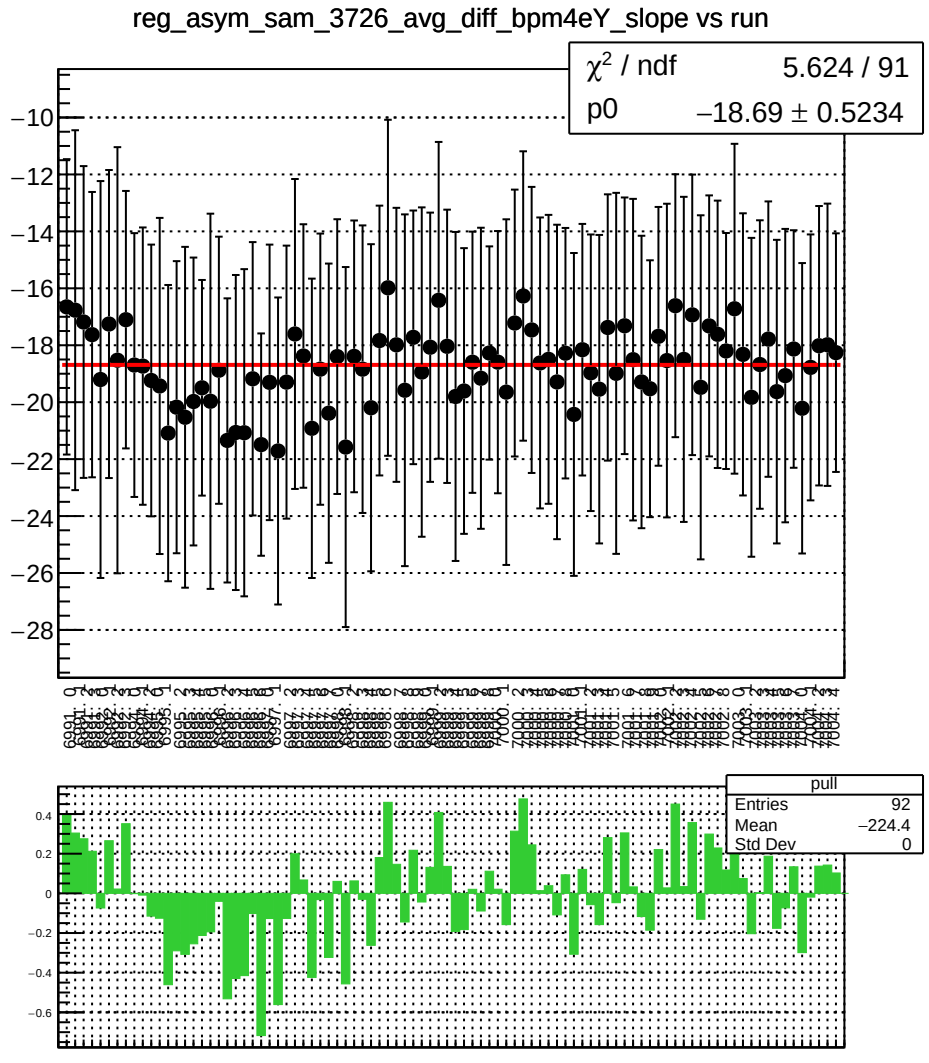

pull1D
Entries 92
Mean −0.001983
Std Dev 0.2826

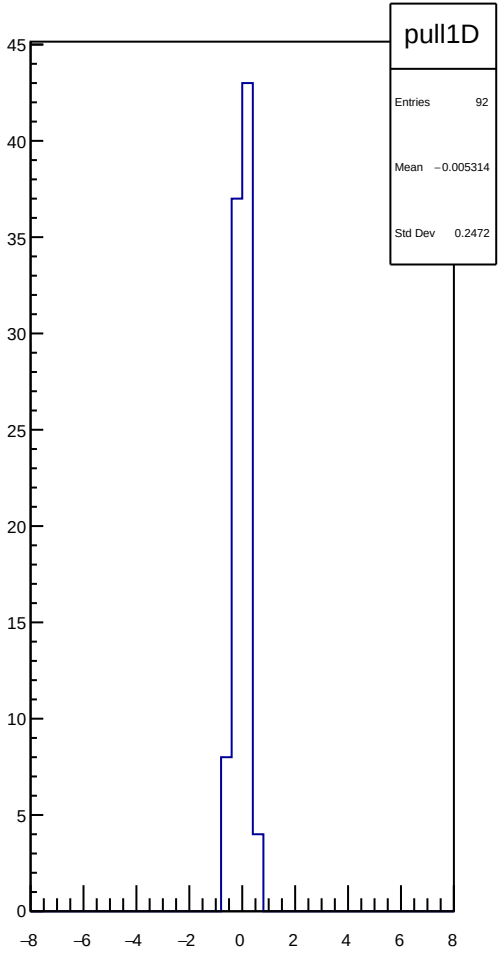

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.06 / 91
p0 4.701 ± 0.4973
pull
Entries 92
Mean −182.9
Std Dev 0

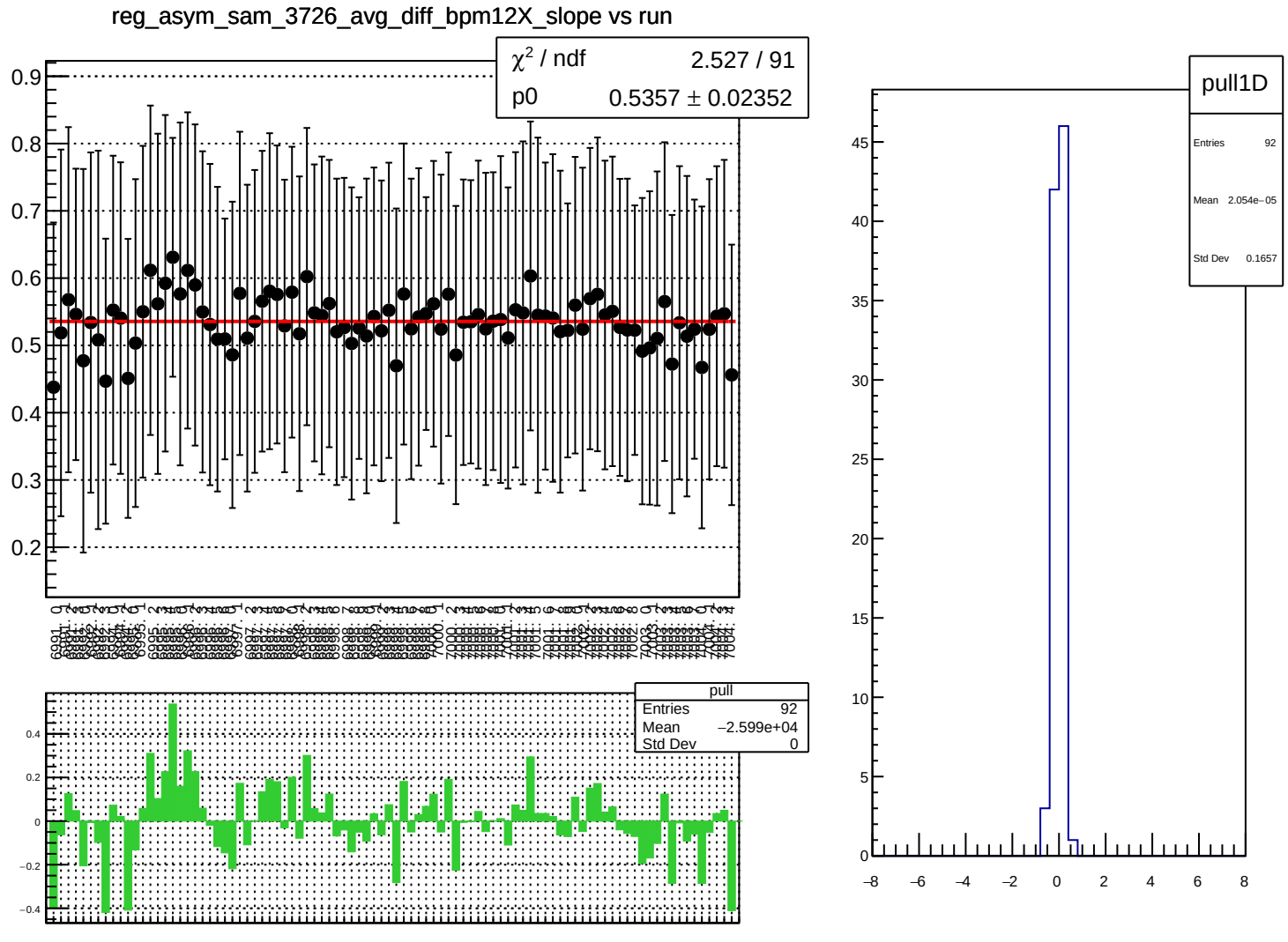

pull1D
Entries 92
Mean −0.001159
Std Dev 0.1496

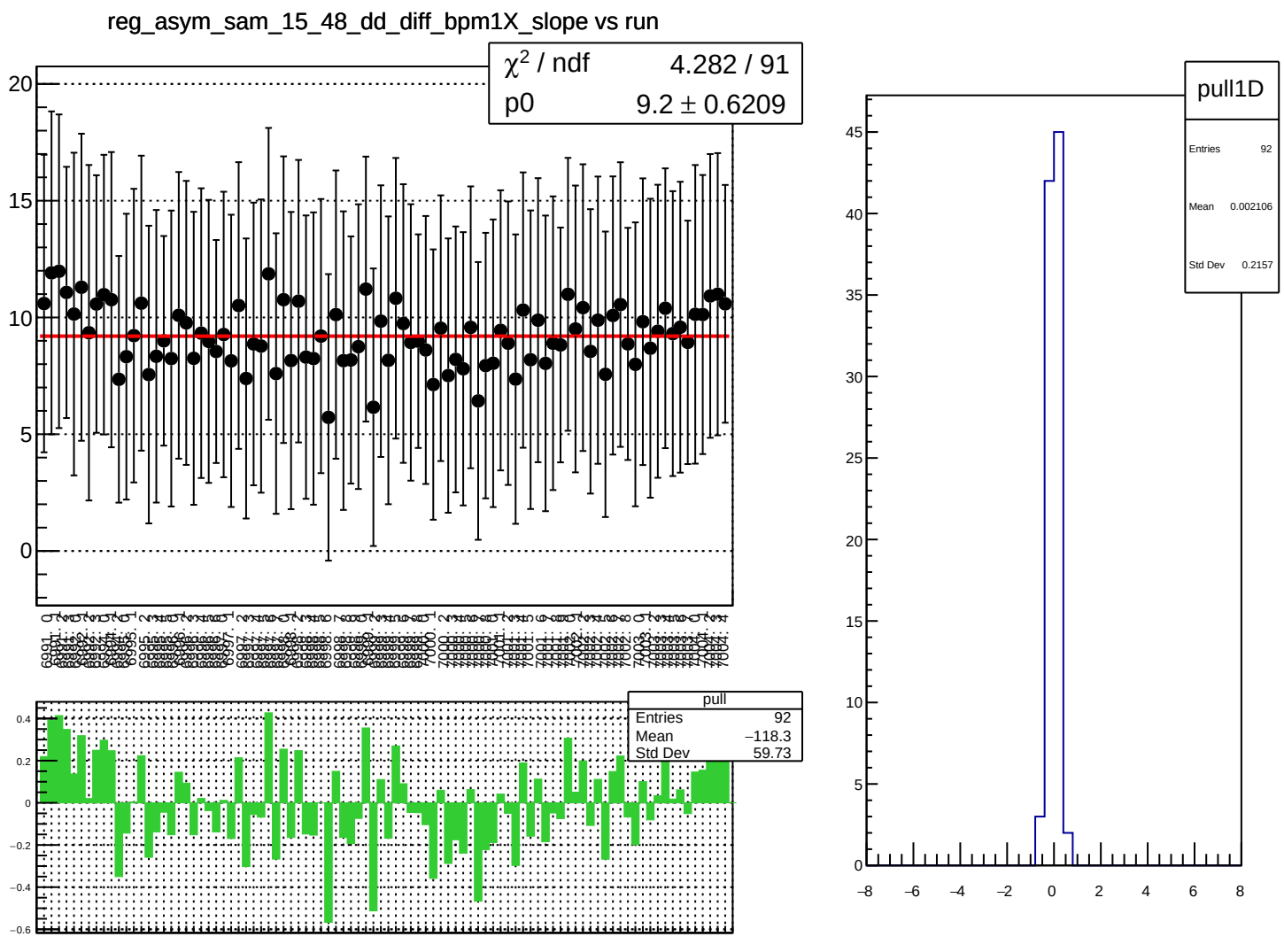

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.6 / 91
p0 −63.2 ± 0.6758
pull
Entries 92
Mean 62.22
Std Dev 0

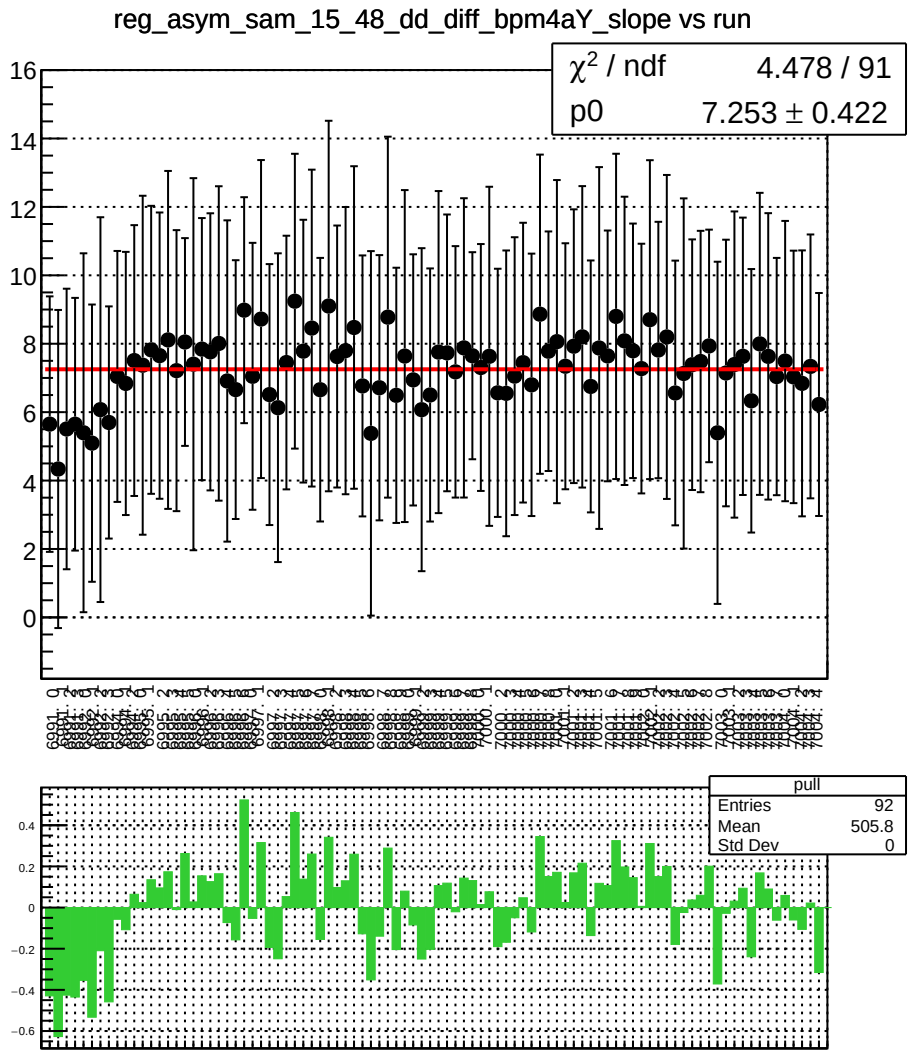

pull1D
Entries 92
Mean −0.005808
Std Dev 0.3701

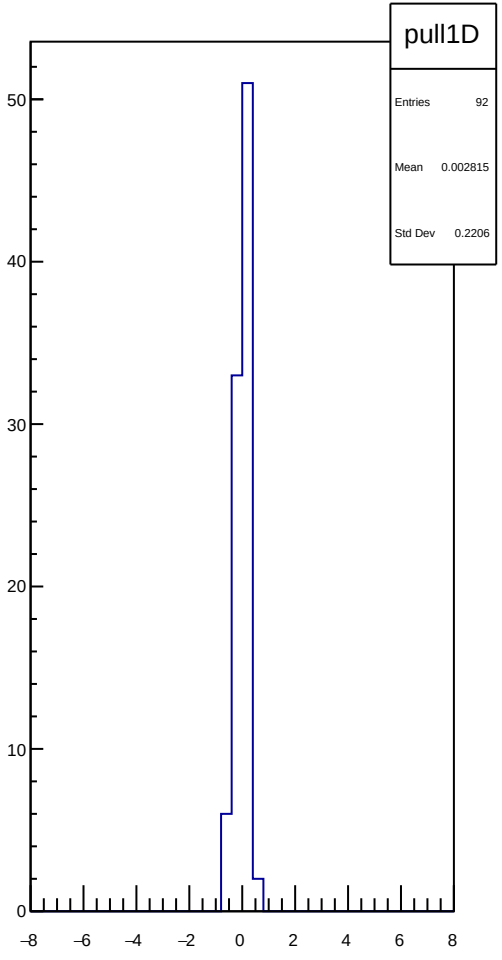

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.624 / 91
p0 −18.69 ± 0.5234
pull
Entries 92
Mean −224.4
Std Dev 0

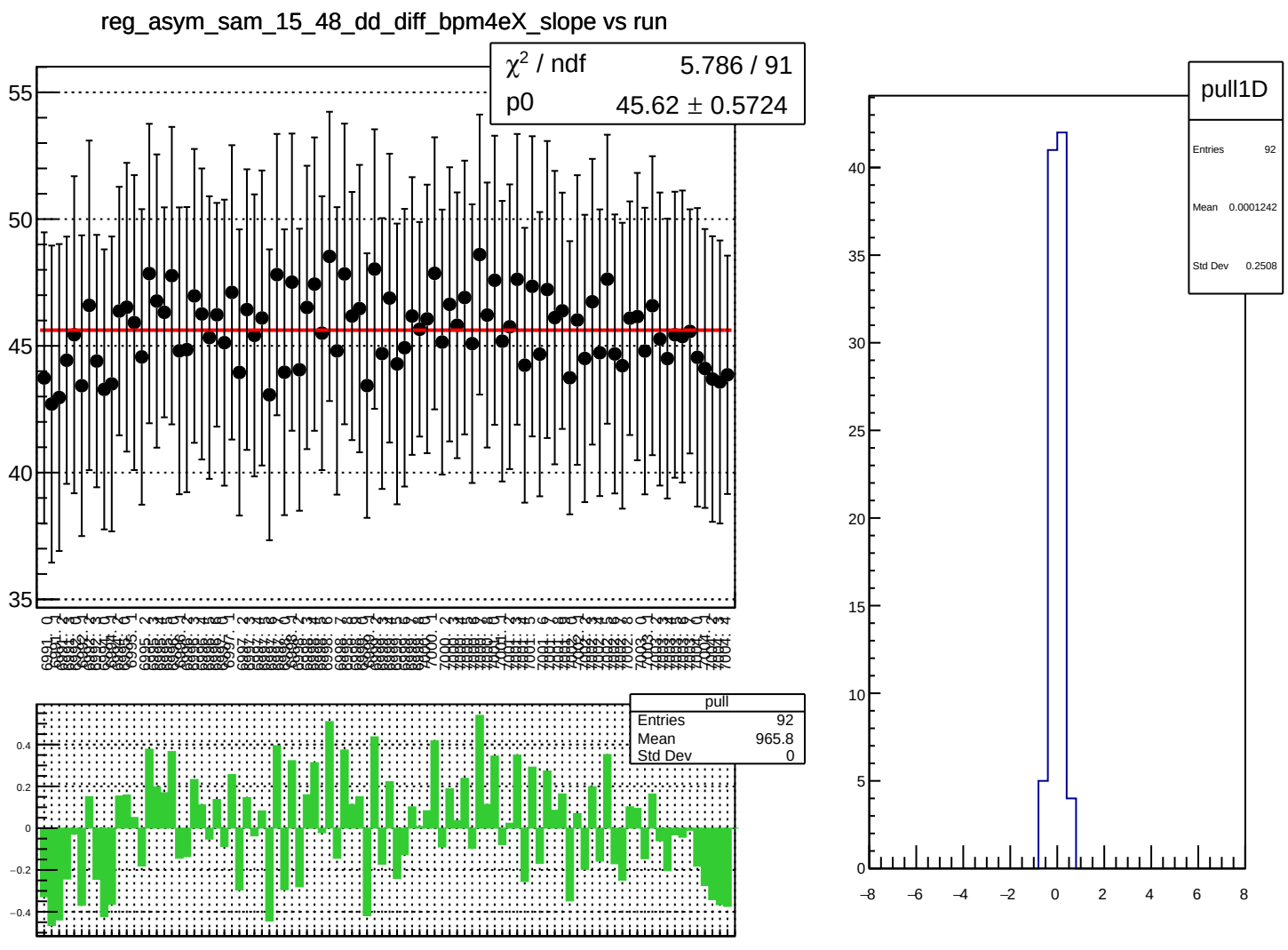

pull1D
Entries 92
Mean −0.005314
Std Dev 0.2472

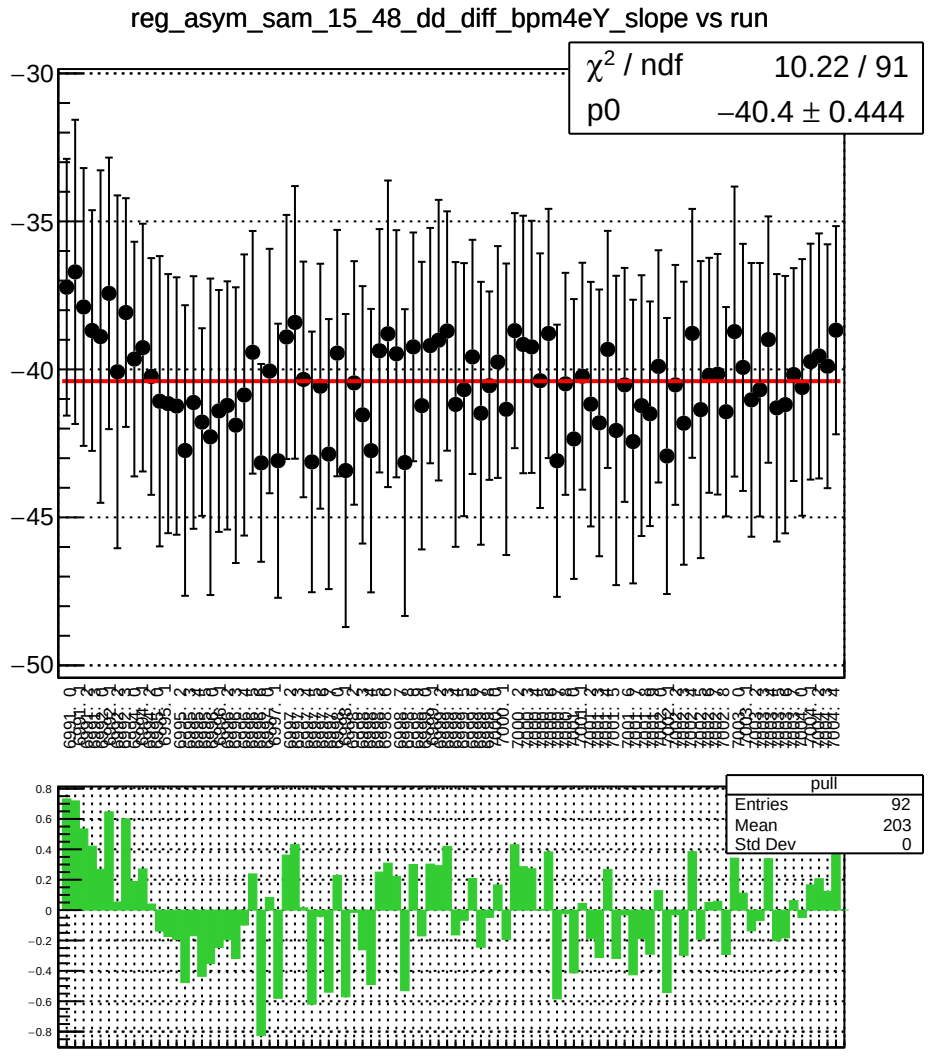

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.527 / 91
p0 0.5357 ± 0.02352
pull
Entries 92
Mean −2.599e+04
Std Dev 0
pull1D
Entries 92
Mean 2.054e−05
Std Dev 0.1657

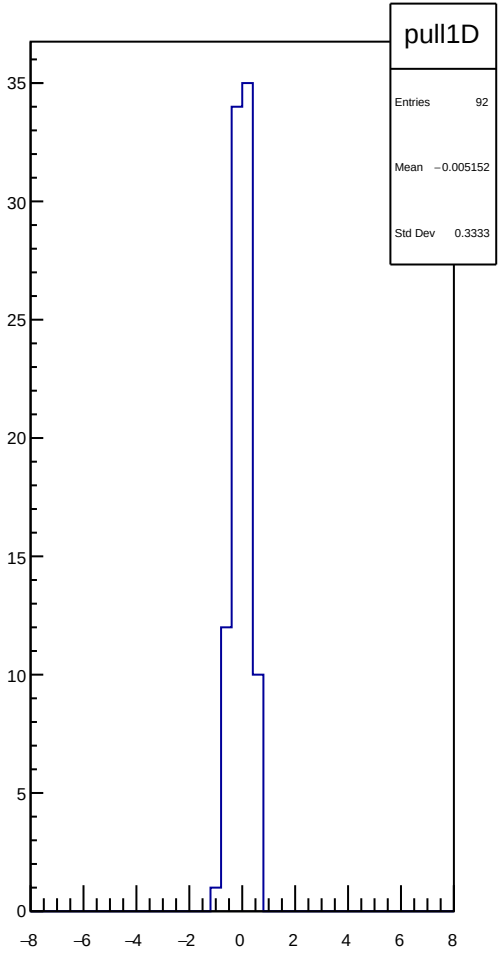

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.282 / 91
p0 9.2 ± 0.6209
pull
Entries 92
Mean −118.3
Std Dev 59.73
pull1D
Entries 92
Mean 0.002106
Std Dev 0.2157

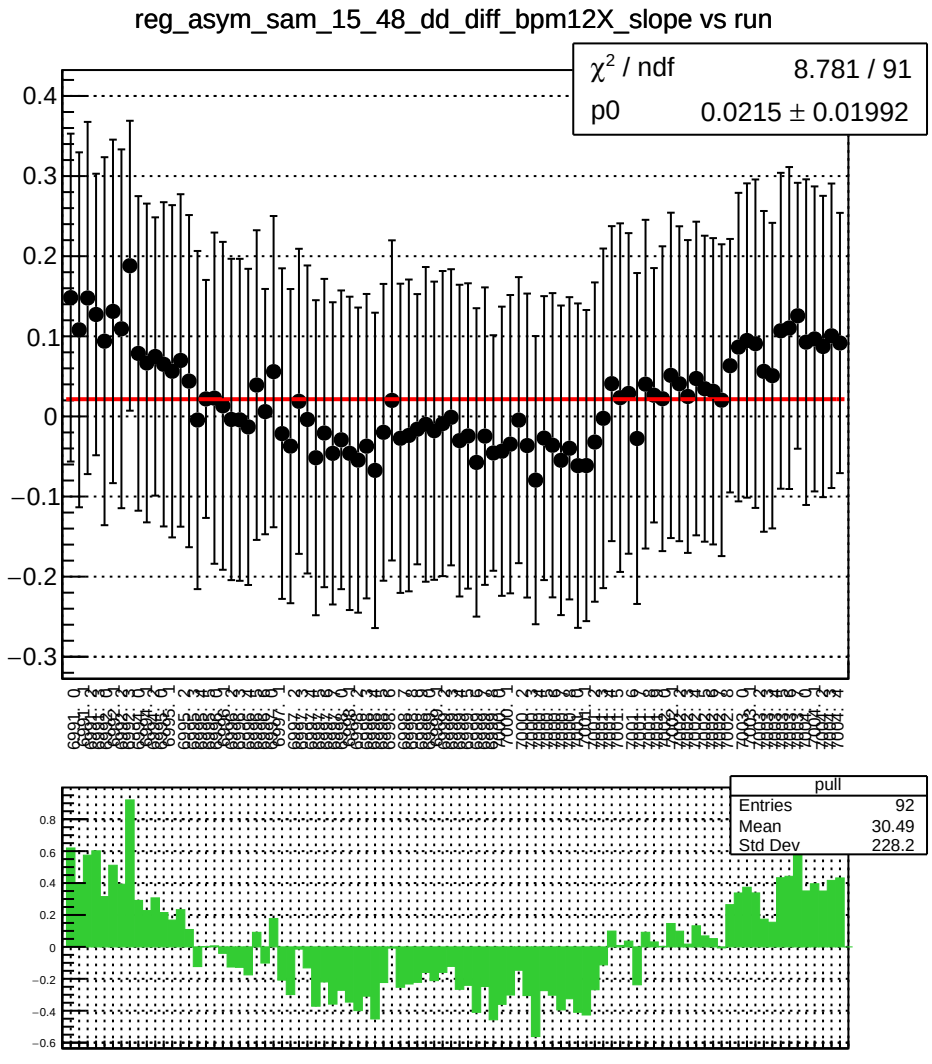

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.478 / 91
p0 7.253 ± 0.422
pull
Entries 92
Mean 505.8
Std Dev 0

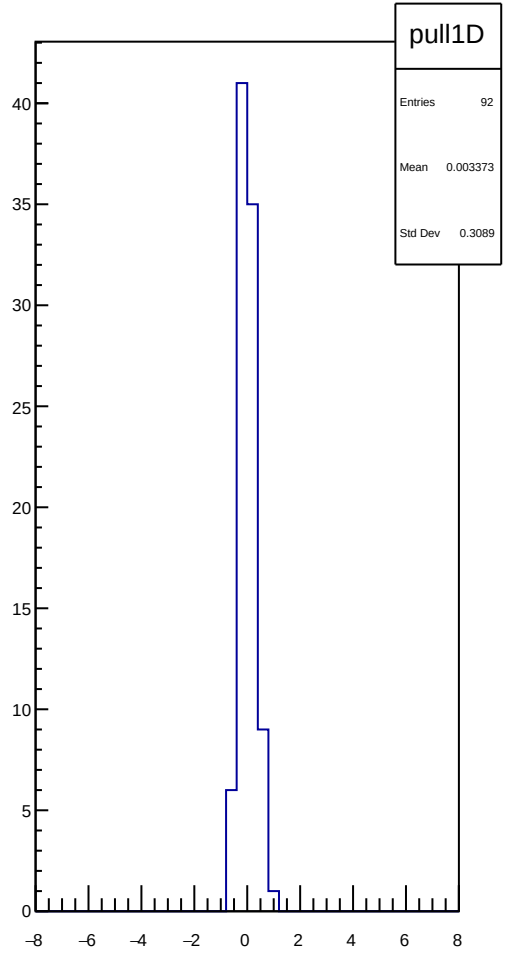

pull1D
Entries 92
Mean 0.002815
Std Dev 0.2206

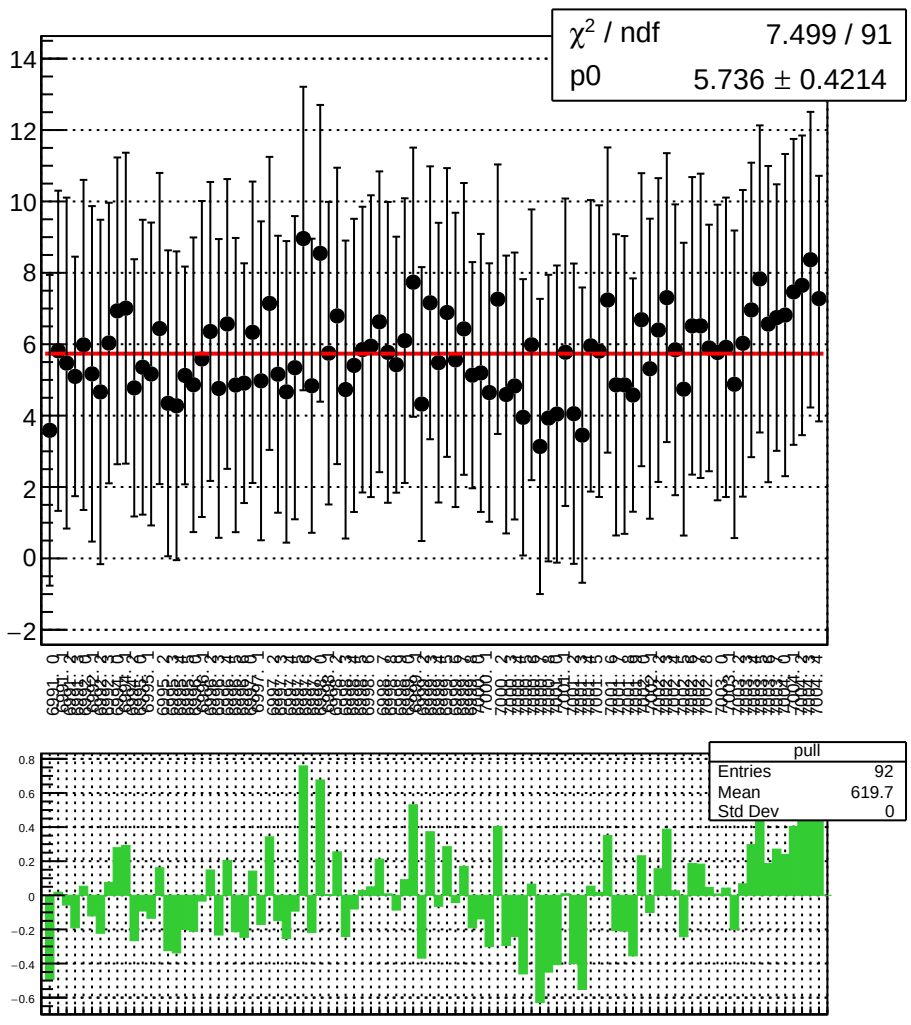

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.786 / 91
p0 45.62 ± 0.5724
55
50
45
40
35
pull
Entries 92
Mean 965.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean 0.0001242
Std Dev 0.2508
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

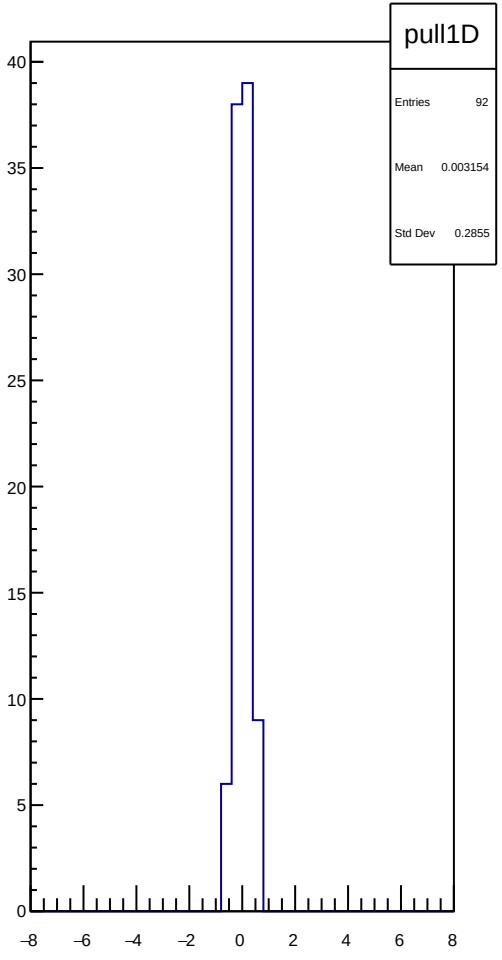

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.22 / 91
p0 −40.4 ± 0.444
pull
Entries 92
Mean 203
Std Dev 0

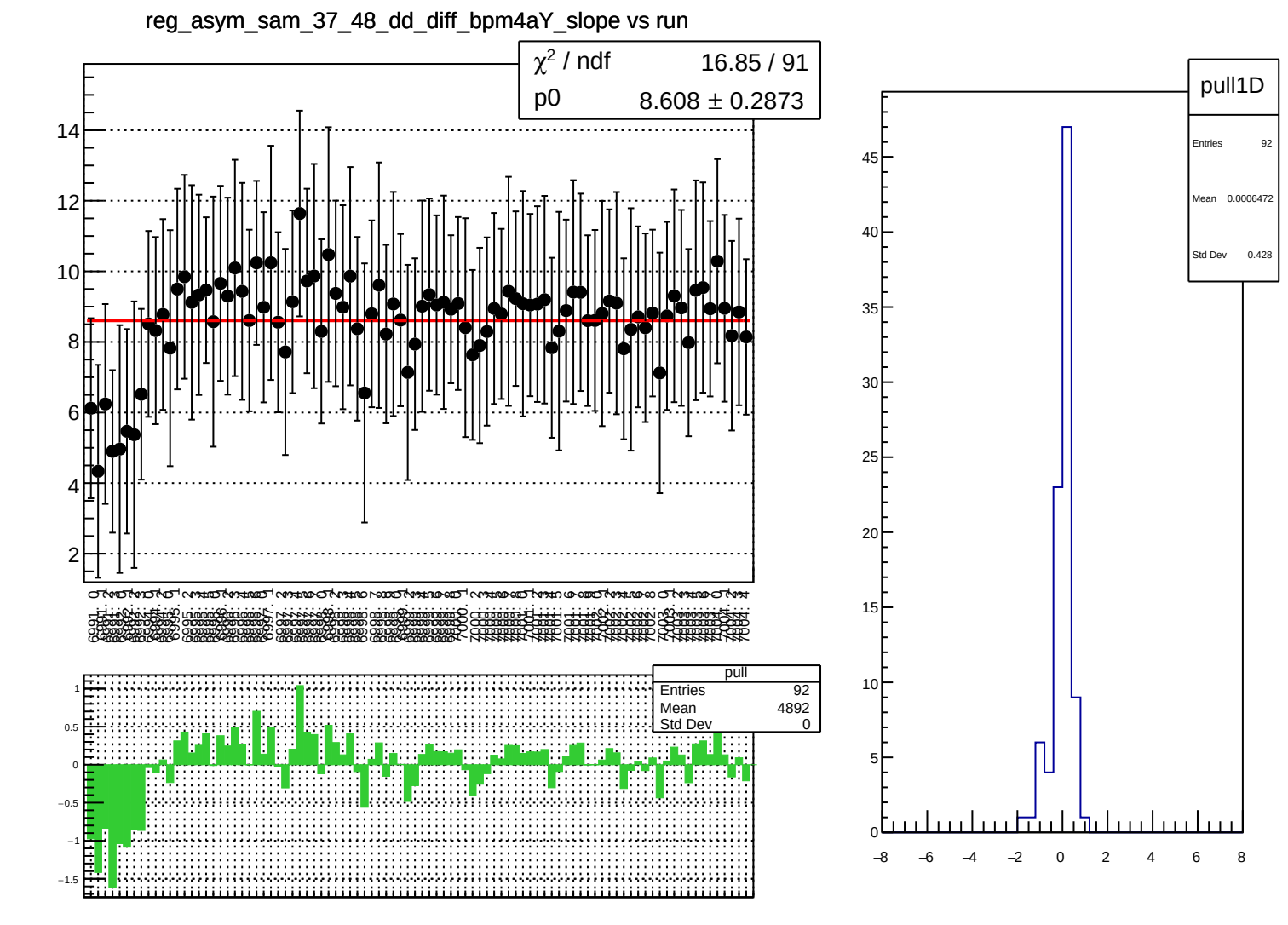

pull1D
Entries 92
Mean −0.005152
Std Dev 0.3333

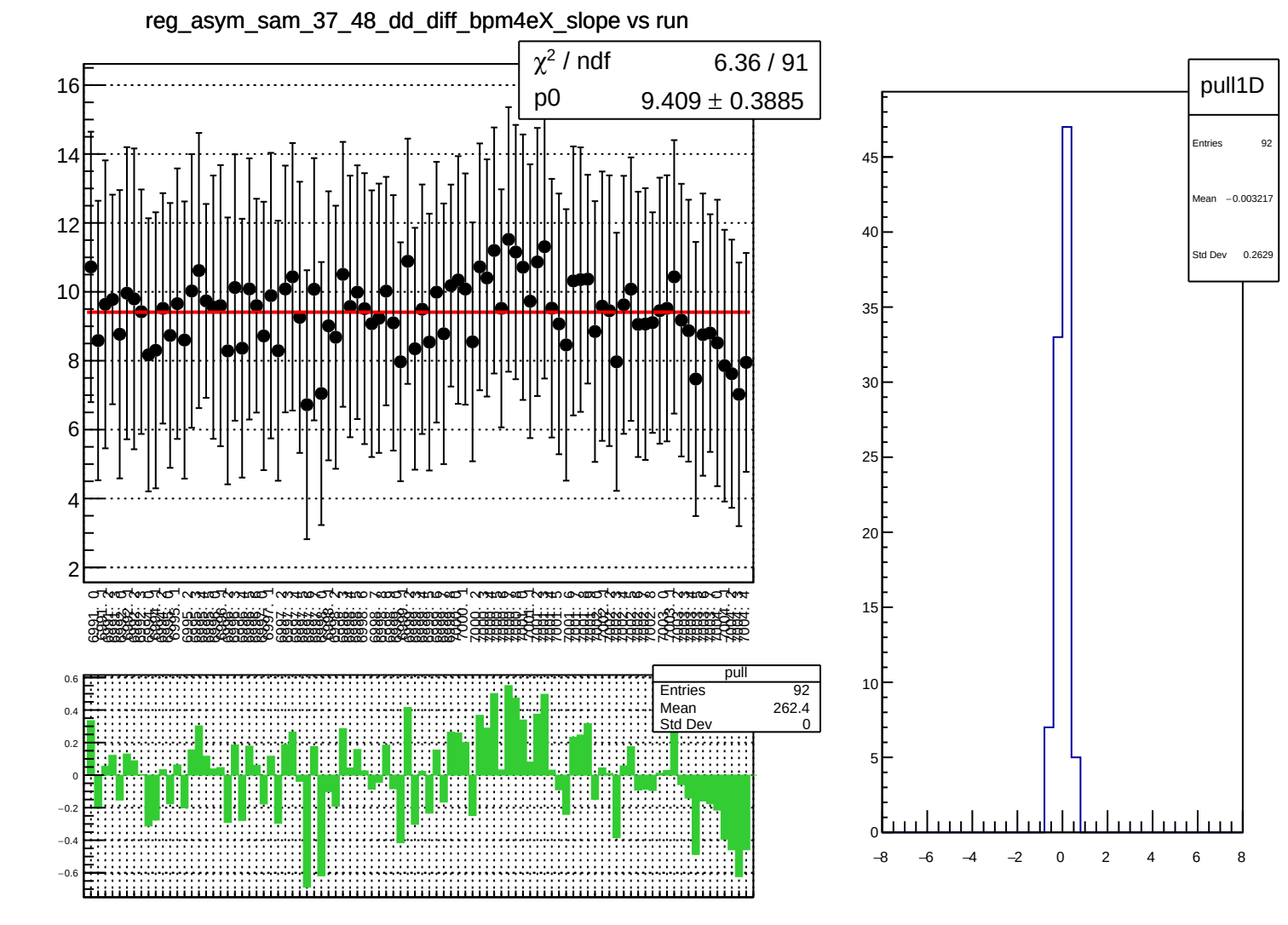

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.781 / 91
p0 0.0215 ± 0.01992
pull
Entries 92
Mean 30.49
Std Dev 228.2

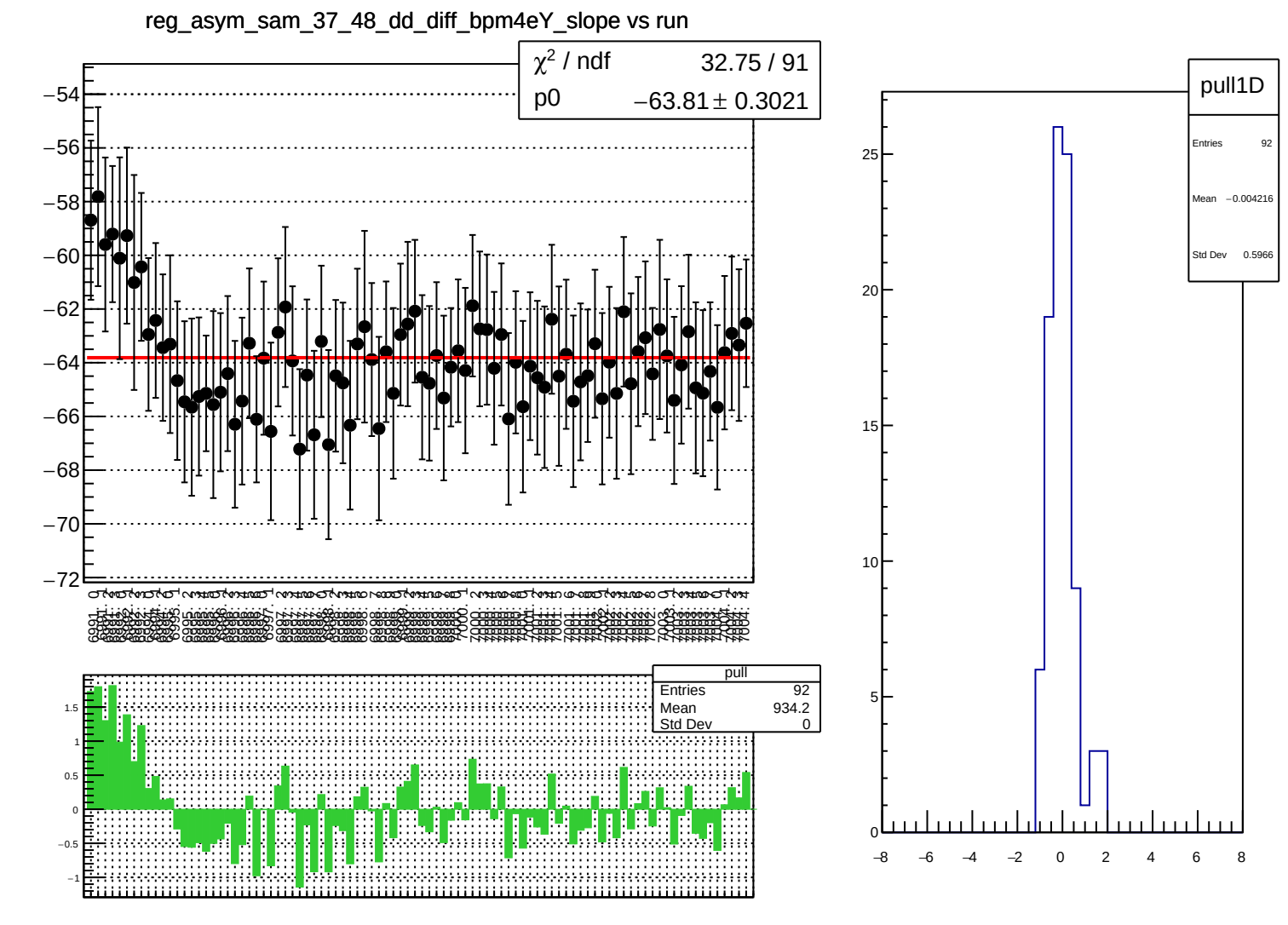

pull1D
Entries 92
Mean 0.003373
Std Dev 0.3089

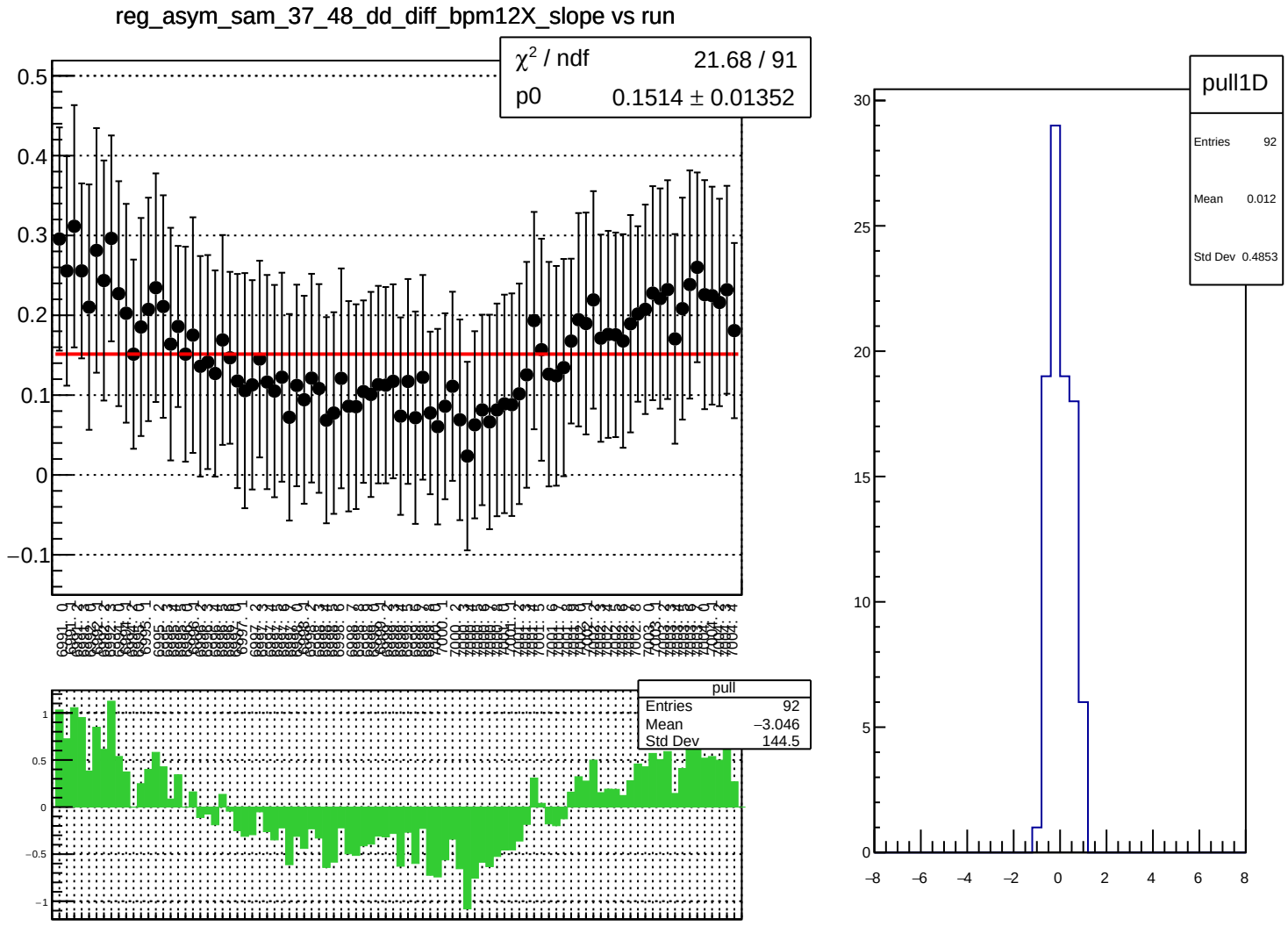

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.499 / 91
p0 5.736 ± 0.4214
pull
Entries 92
Mean 619.7
Std Dev 0

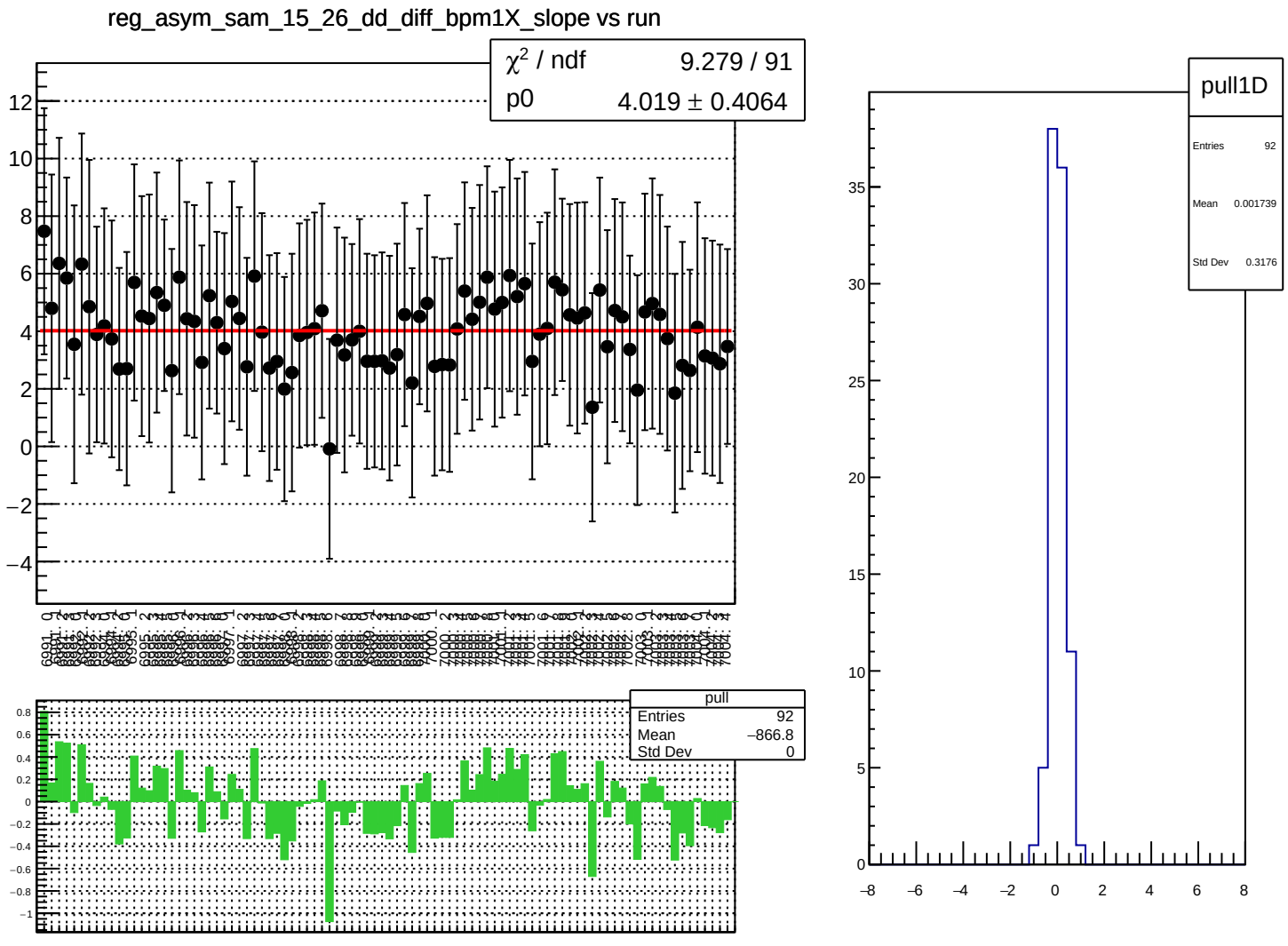

pull1D
Entries 92
Mean 0.003154
Std Dev 0.2855

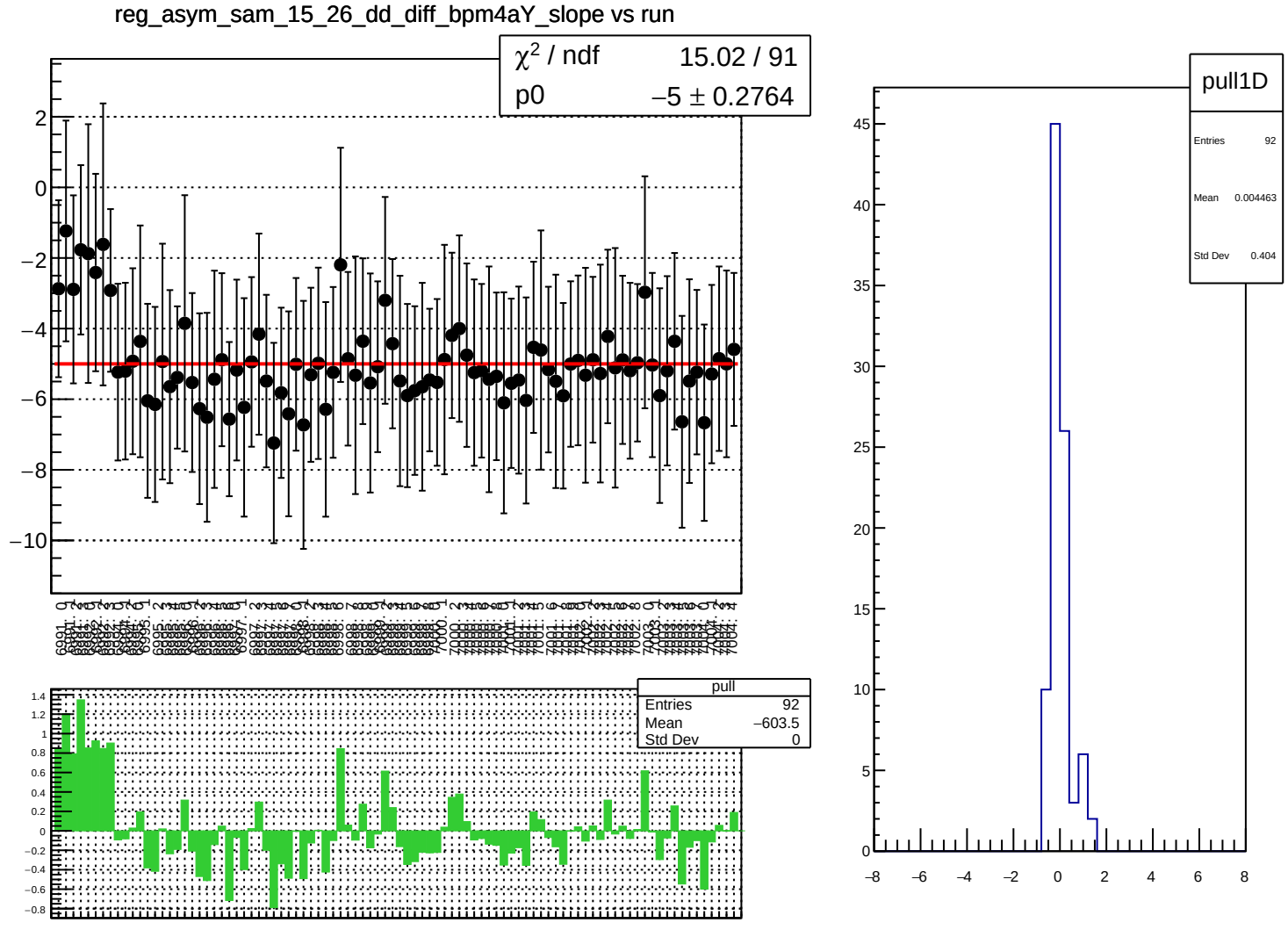

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.85 / 91
p0 8.608 ± 0.2873
pull
Entries 92
Mean 4892
Std Dev 0
pull1D
Entries 92
Mean 0.0006472
Std Dev 0.428

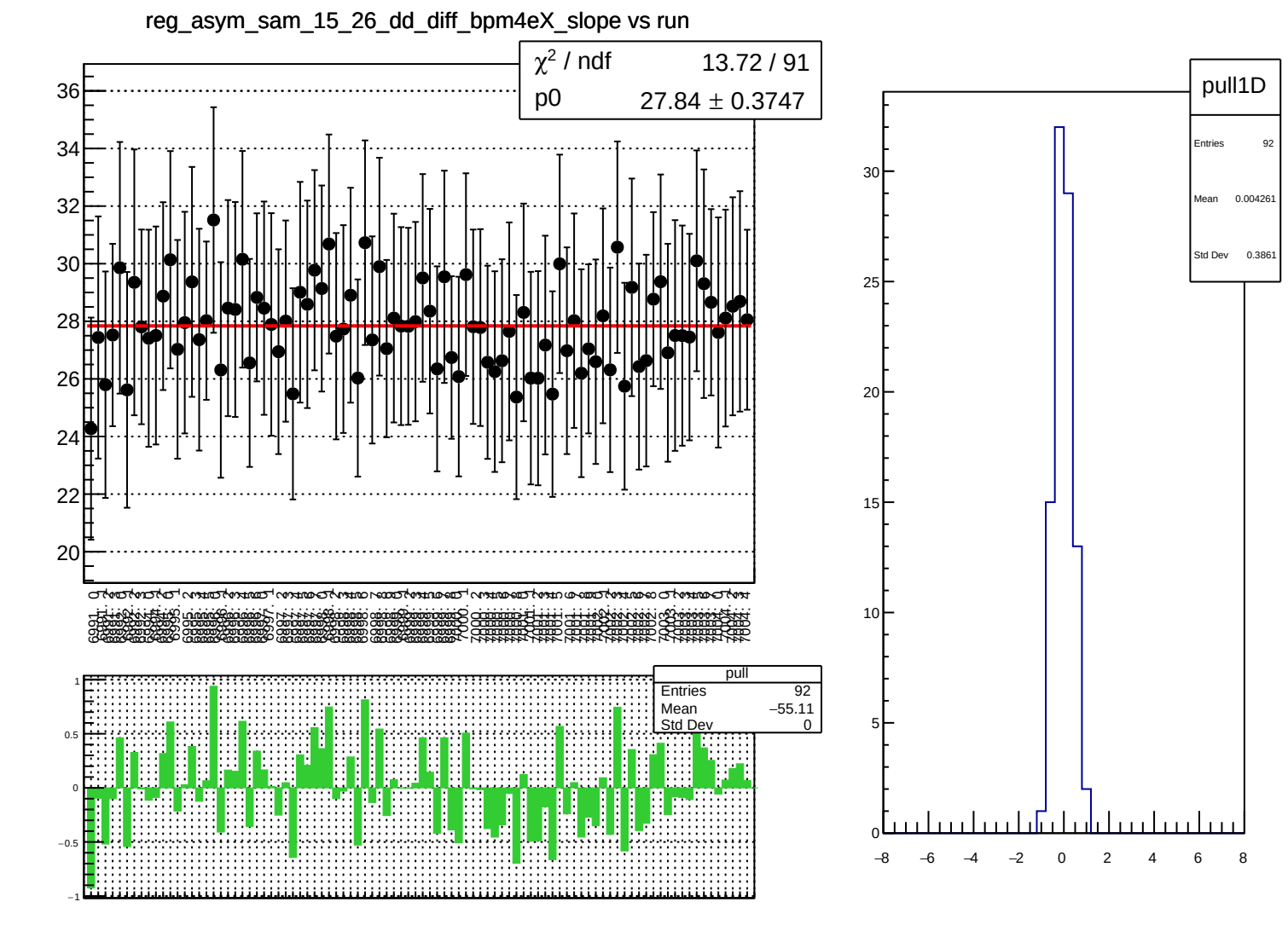

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.36 / 91
p0 9.409 ± 0.3885
pull
Entries 92
Mean 262.4
Std Dev 0
pull1D
Entries 92
Mean −0.003217
Std Dev 0.2629

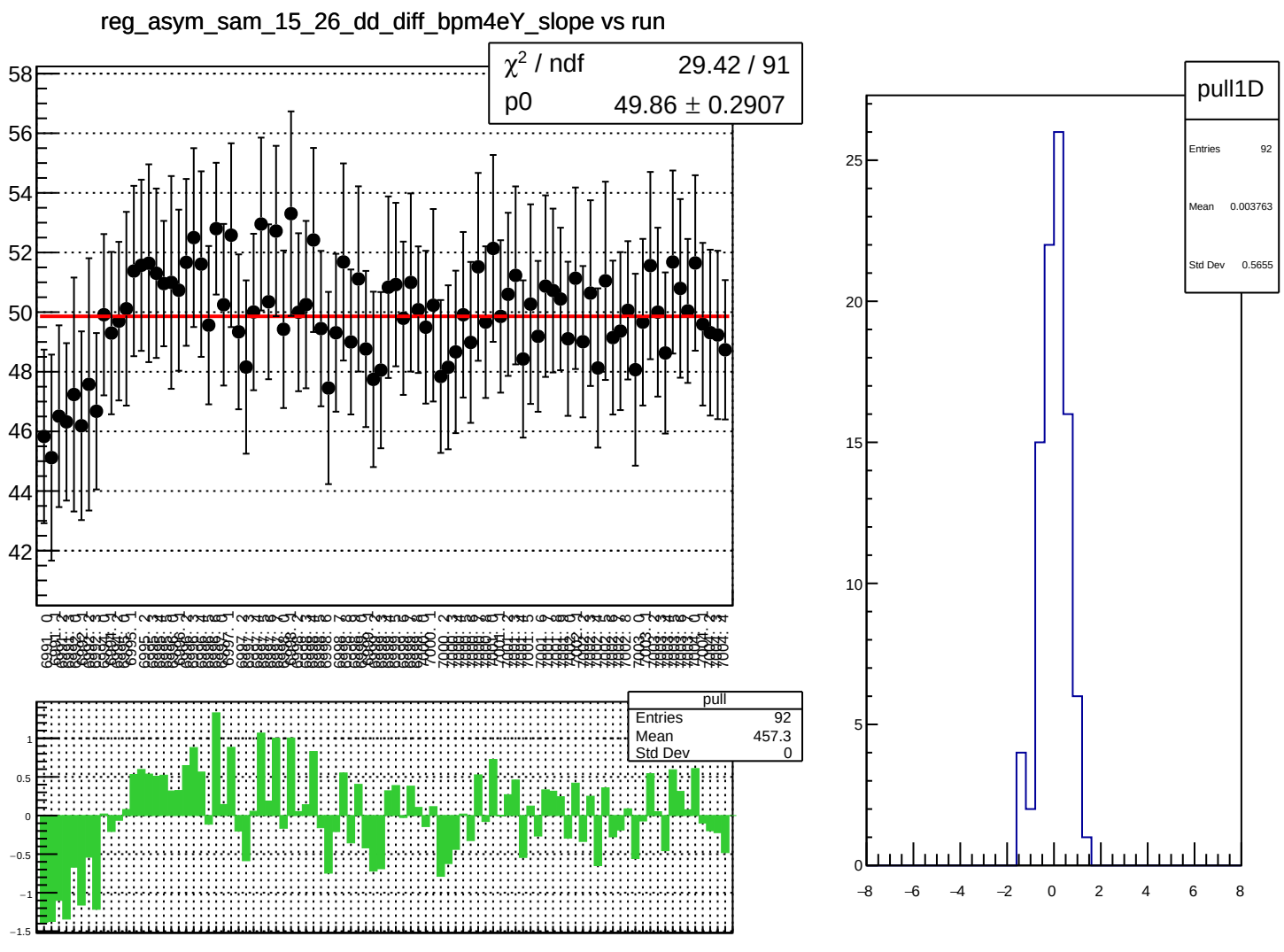

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.75 / 91
p0 −63.81 ± 0.3021
pull
Entries 92
Mean 934.2
Std Dev 0
pull1D
Entries 92
Mean −0.004216
Std Dev 0.5966

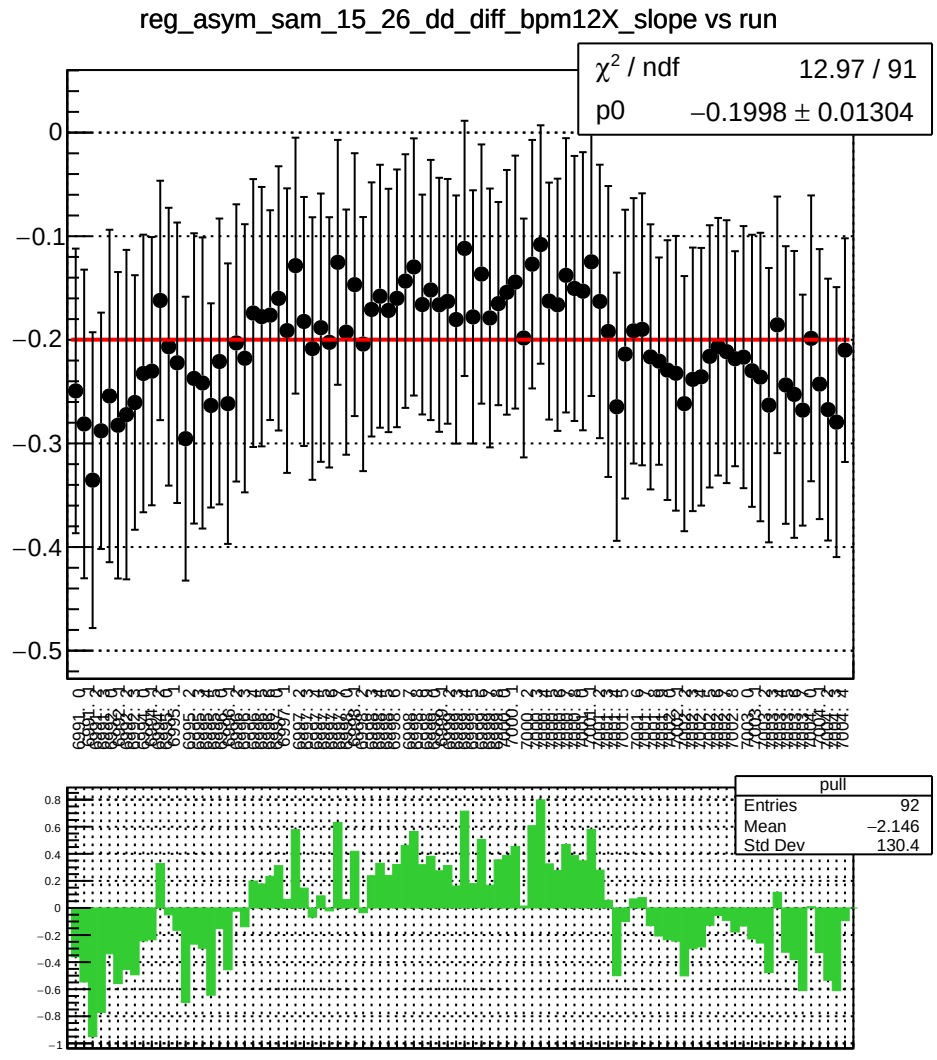

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 21.68 / 91
p0 0.1514 ± 0.01352
pull
Entries 92
Mean −3.046
Std Dev 144.5
pull1D
Entries 92
Mean 0.012
Std Dev 0.4853

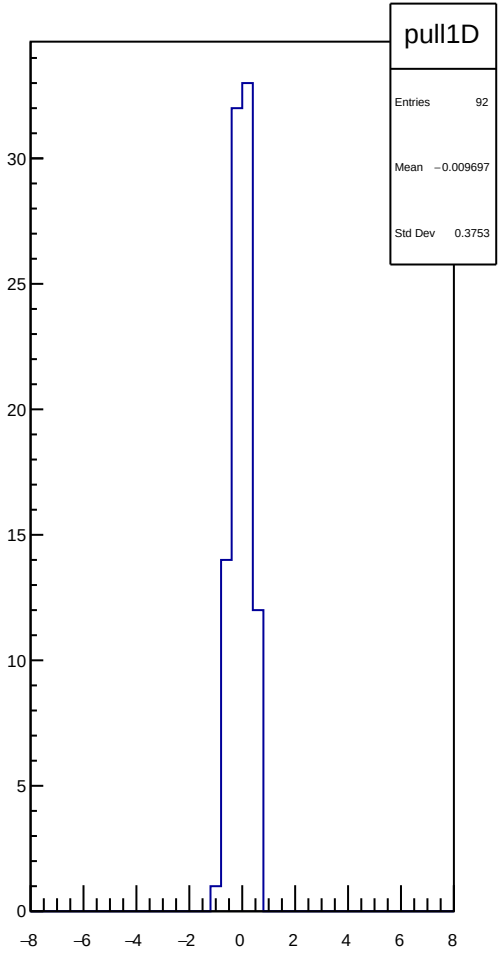

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 9.279 / 91
p0 4.019 ± 0.4064
pull
Entries 92
Mean −866.8
Std Dev 0
pull1D
Entries 92
Mean 0.001739
Std Dev 0.3176

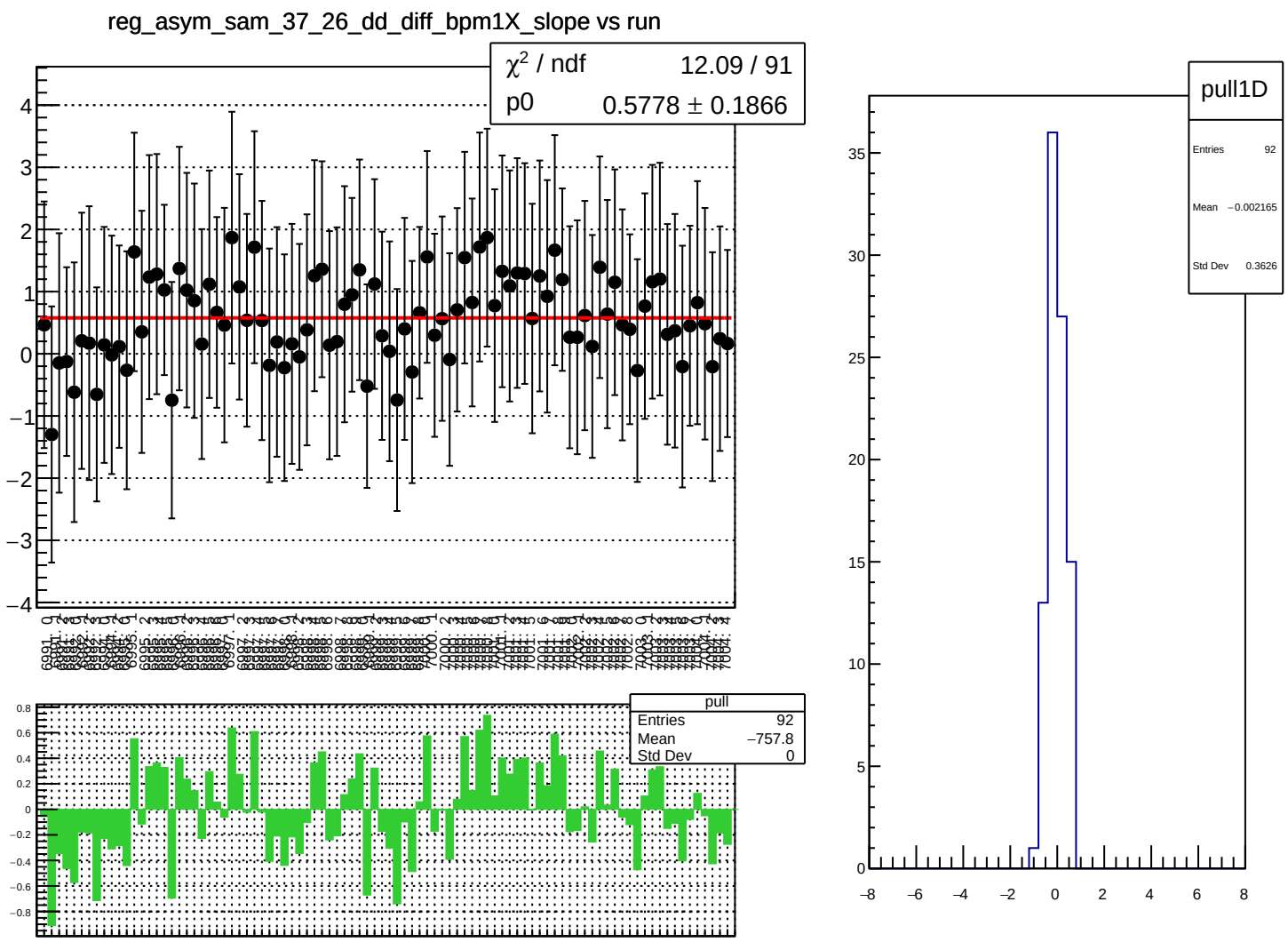

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.02 / 91
p0 −5 ± 0.2764
pull
Entries 92
Mean −603.5
Std Dev 0
pull1D
Entries 92
Mean 0.004463
Std Dev 0.404

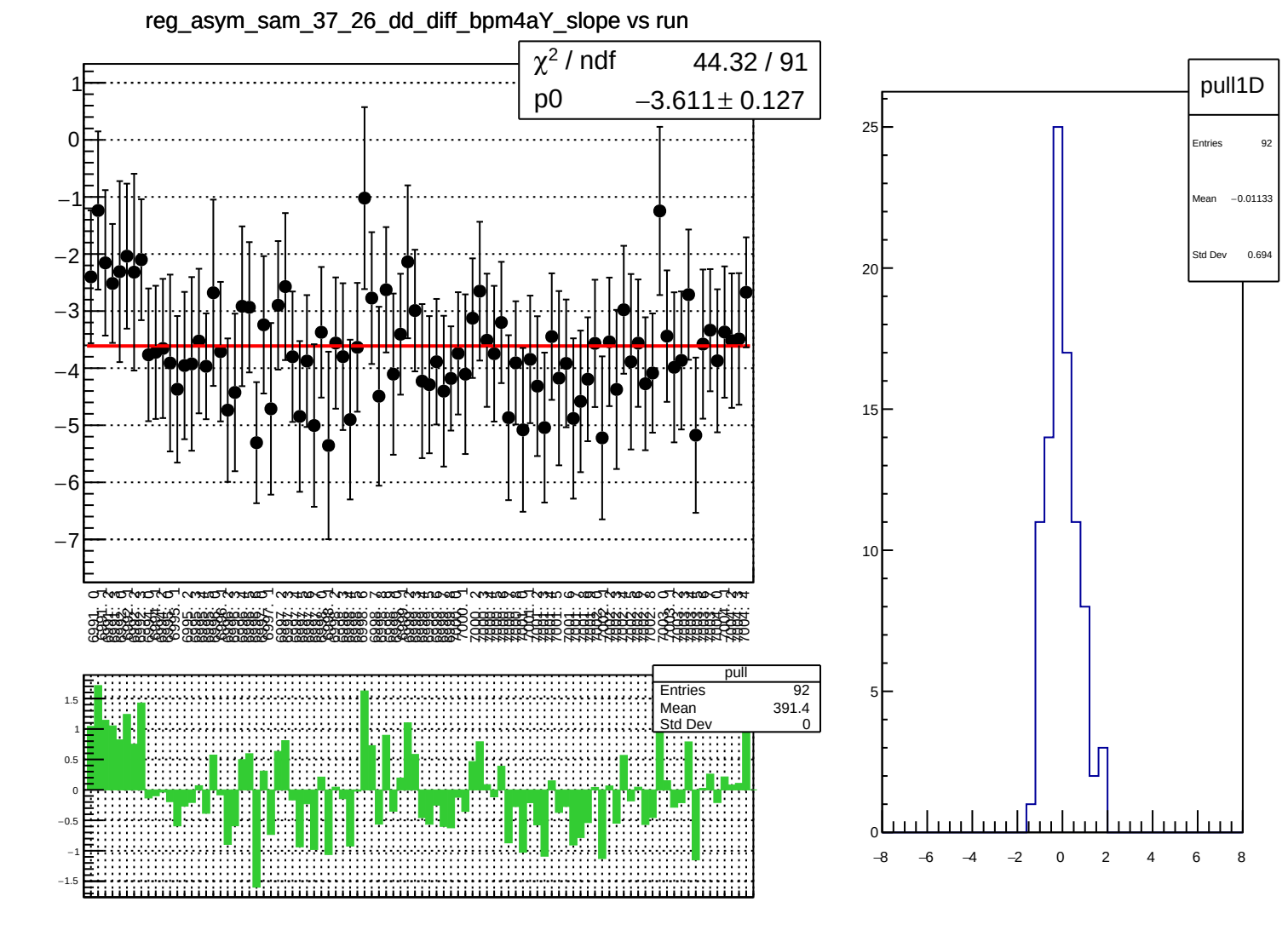

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.72 / 91
p0 27.84 ± 0.3747
pull
Entries 92
Mean −55.11
Std Dev 0
pull1D
Entries 92
Mean 0.004261
Std Dev 0.3861

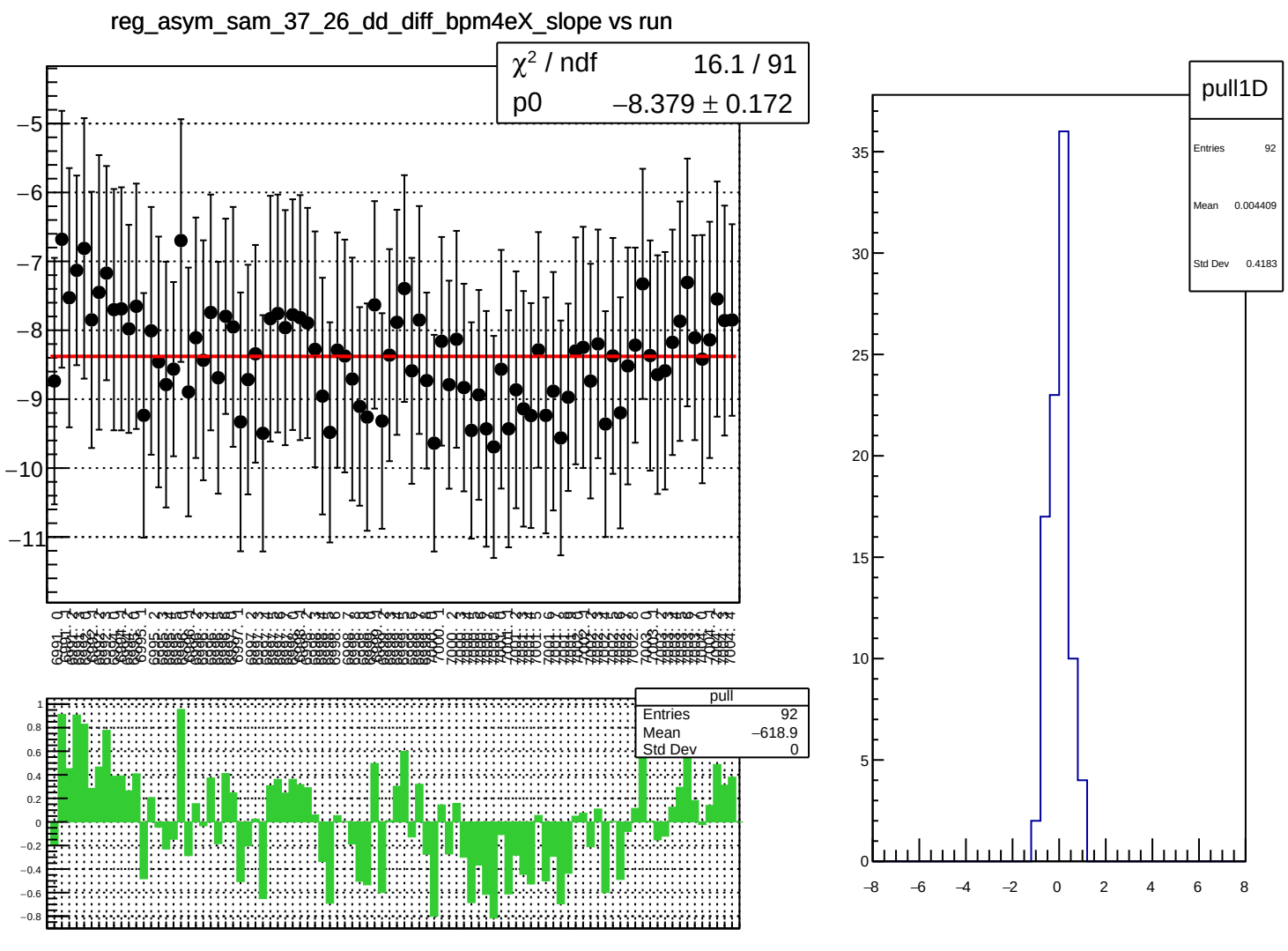

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 29.42 / 91
p0 49.86 ± 0.2907
pull
Entries 92
Mean 457.3
Std Dev 0
pull1D
Entries 92
Mean 0.003763
Std Dev 0.5655

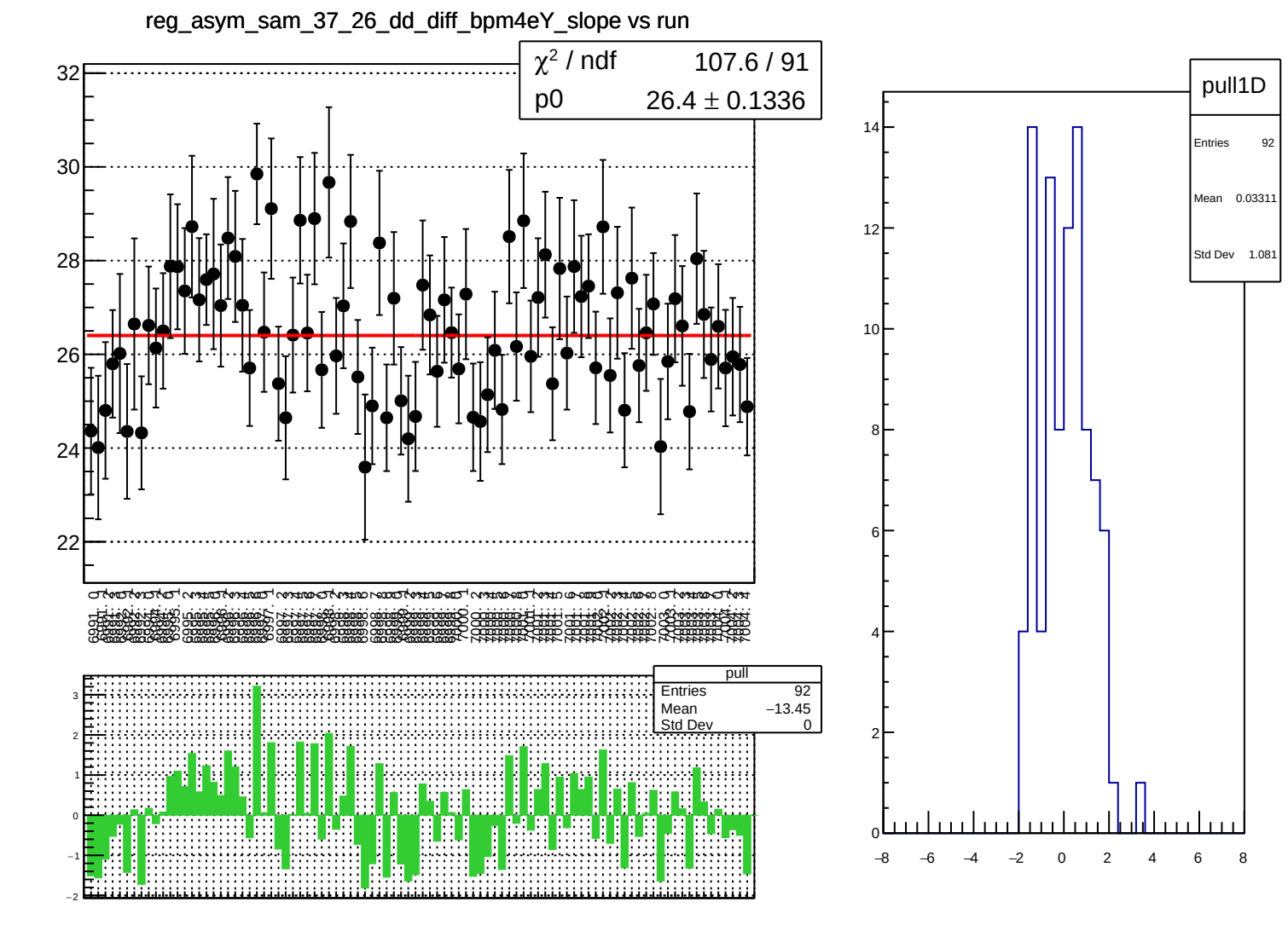

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 12.97 / 91
p0 −0.1998 ± 0.01304
pull
Entries 92
Mean −2.146
Std Dev 130.4

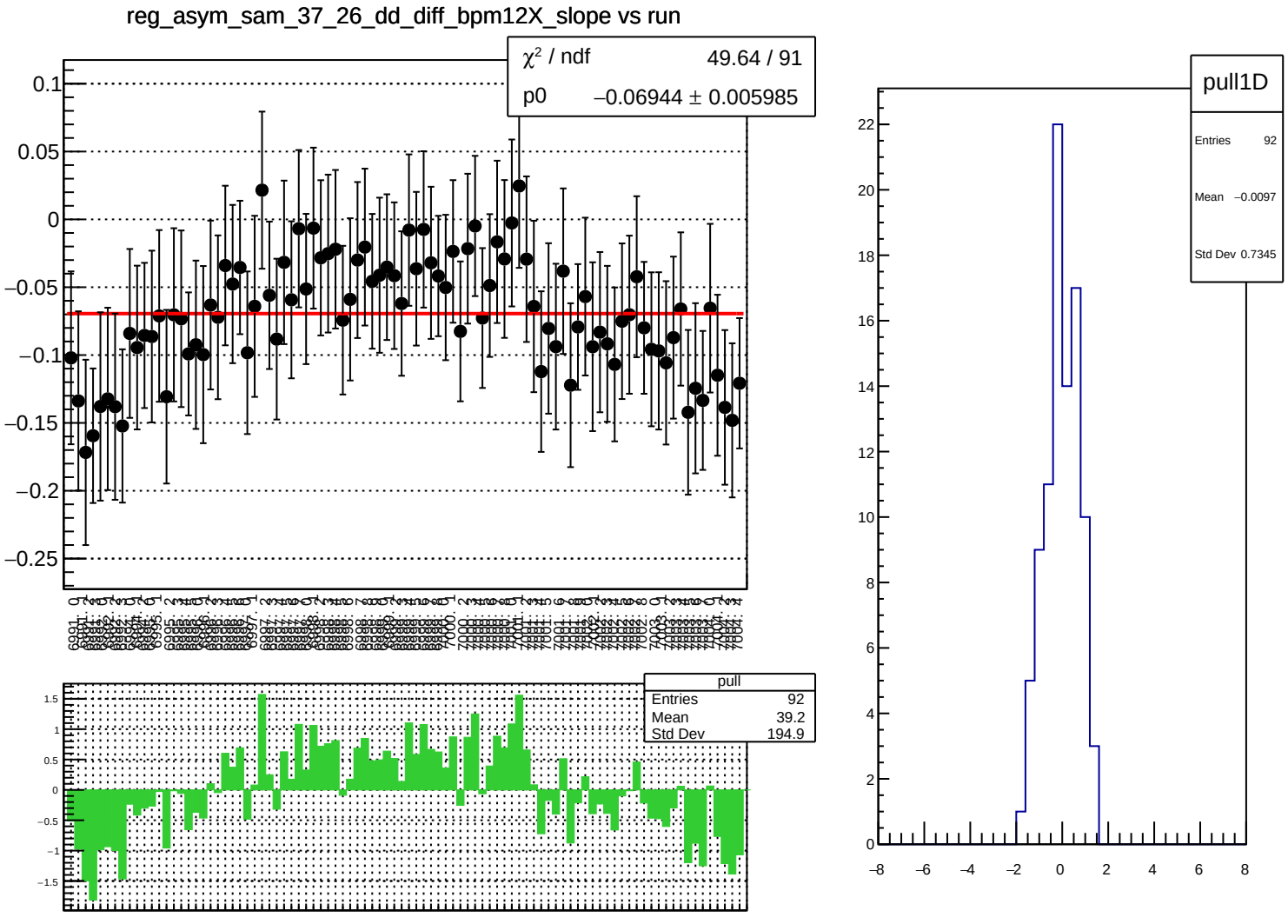

pull1D
Entries 92
Mean −0.009697
Std Dev 0.3753

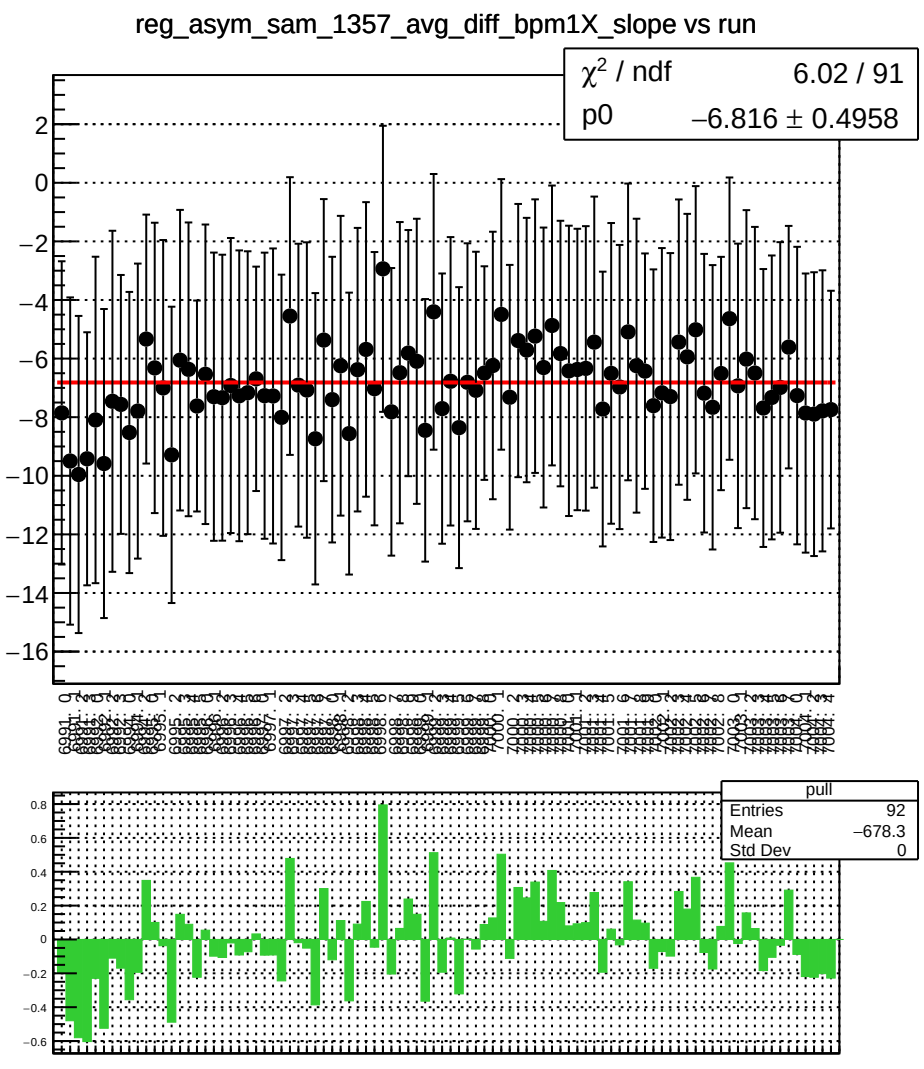

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 12.09 / 91
p0 0.5778 ± 0.1866
pull
Entries 92
Mean −757.8
Std Dev 0
pull1D
Entries 92
Mean −0.002165
Std Dev 0.3626

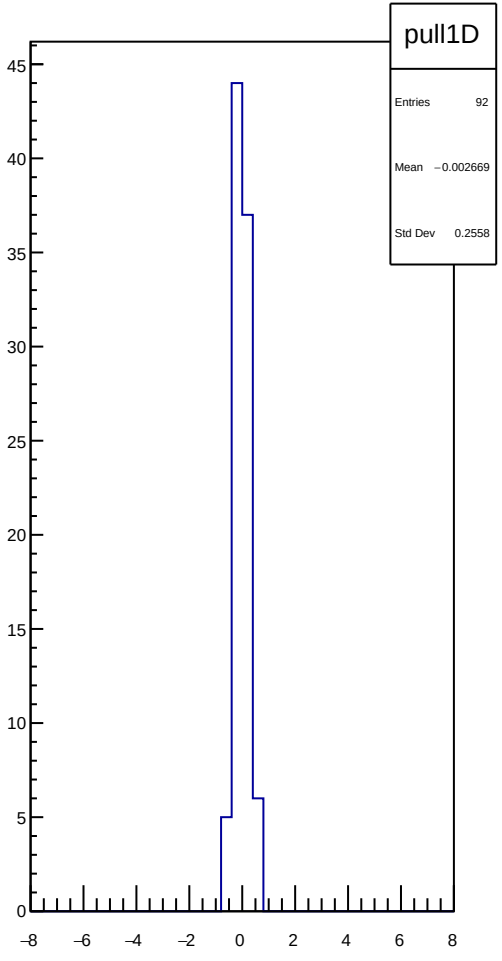

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.32 / 91
p0 −3.611 ± 0.127
pull
Entries 92
Mean 391.4
Std Dev 0
pull1D
Entries 92
Mean −0.01133
Std Dev 0.694

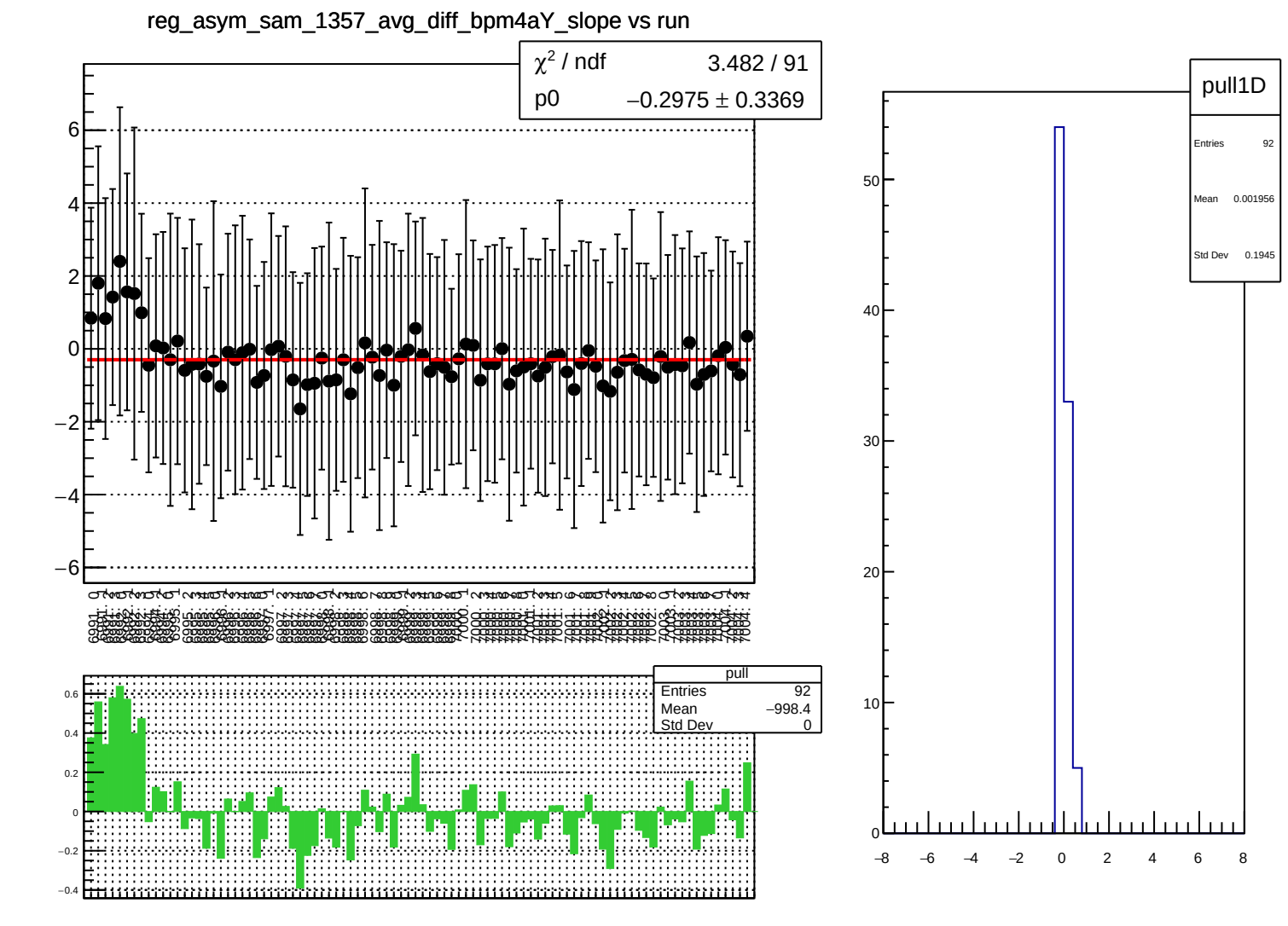

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.1 / 91
p0 −8.379 ± 0.172
pull
Entries 92
Mean −618.9
Std Dev 0
pull1D
Entries 92
Mean 0.004409
Std Dev 0.4183

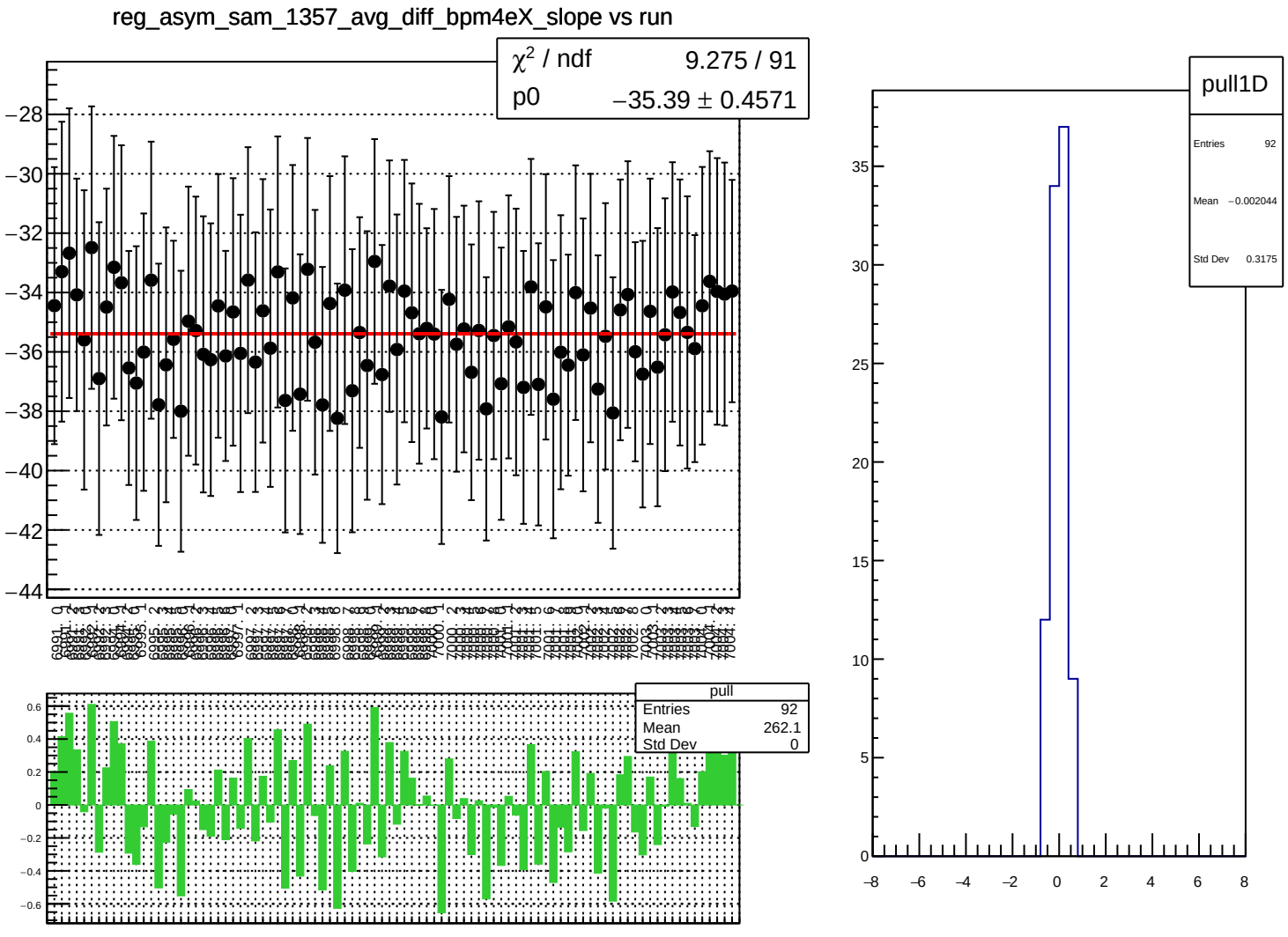

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.6 / 91
p0 26.4 ± 0.1336
pull
Entries 92
Mean −13.45
Std Dev 0
pull1D
Entries 92
Mean 0.03311
Std Dev 1.081

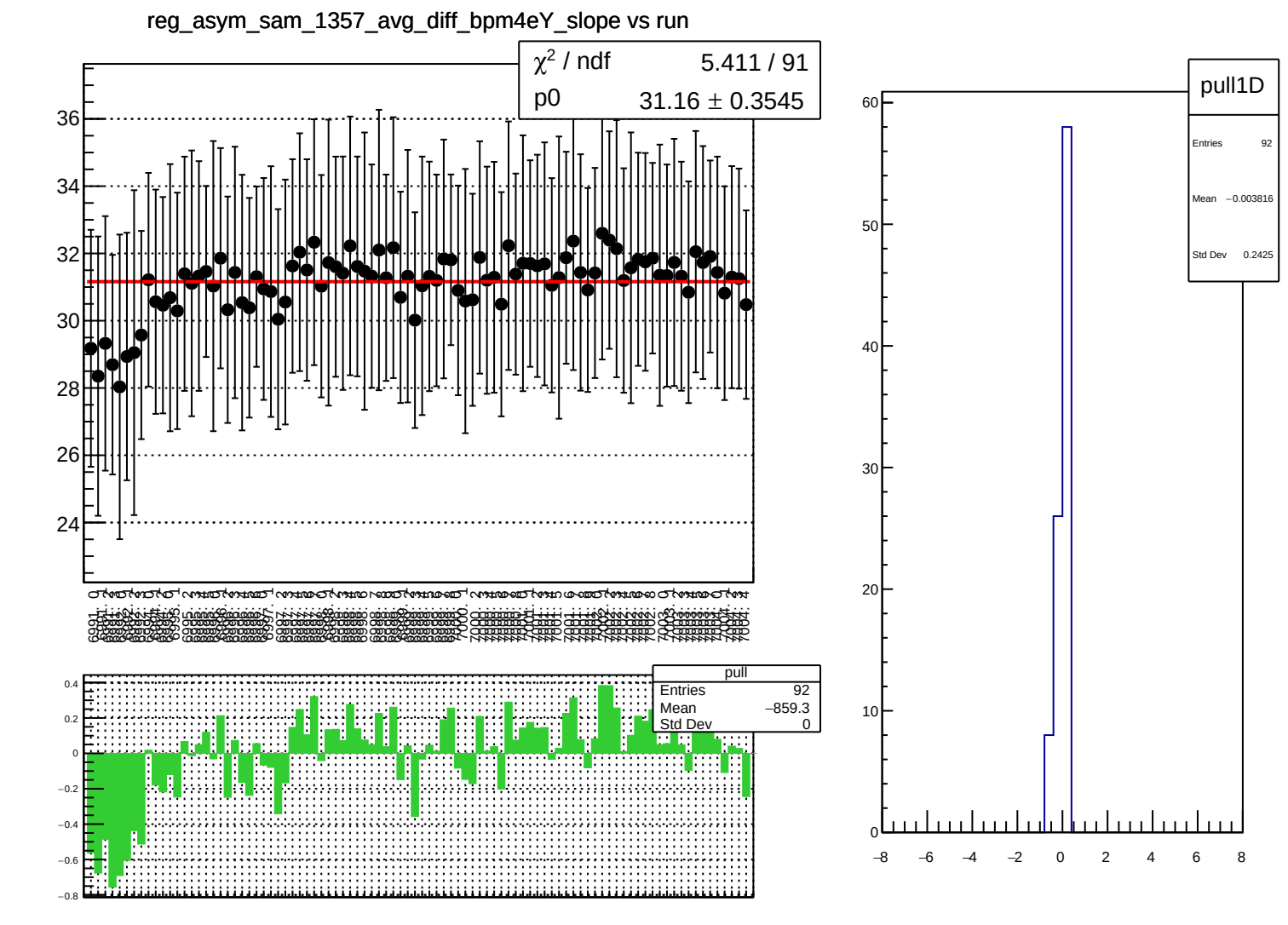

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 49.64 / 91
p0 −0.06944 ± 0.005985
pull
Entries 92
Mean 39.2
Std Dev 194.9
pull1D
Entries 92
Mean −0.0097
Std Dev 0.7345

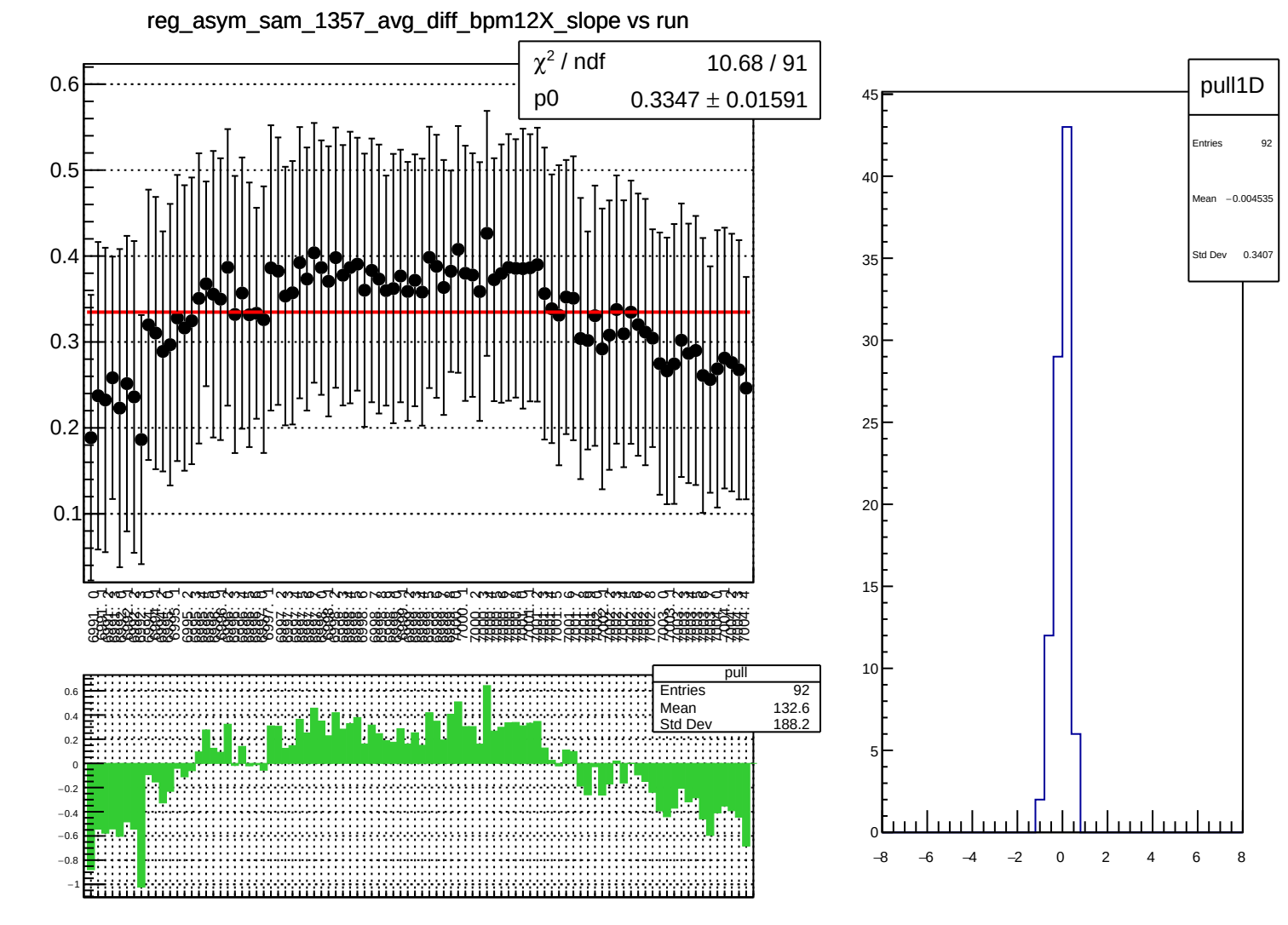

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 6.02 / 91
p0 −6.816 ± 0.4958
pull
Entries 92
Mean −678.3
Std Dev 0

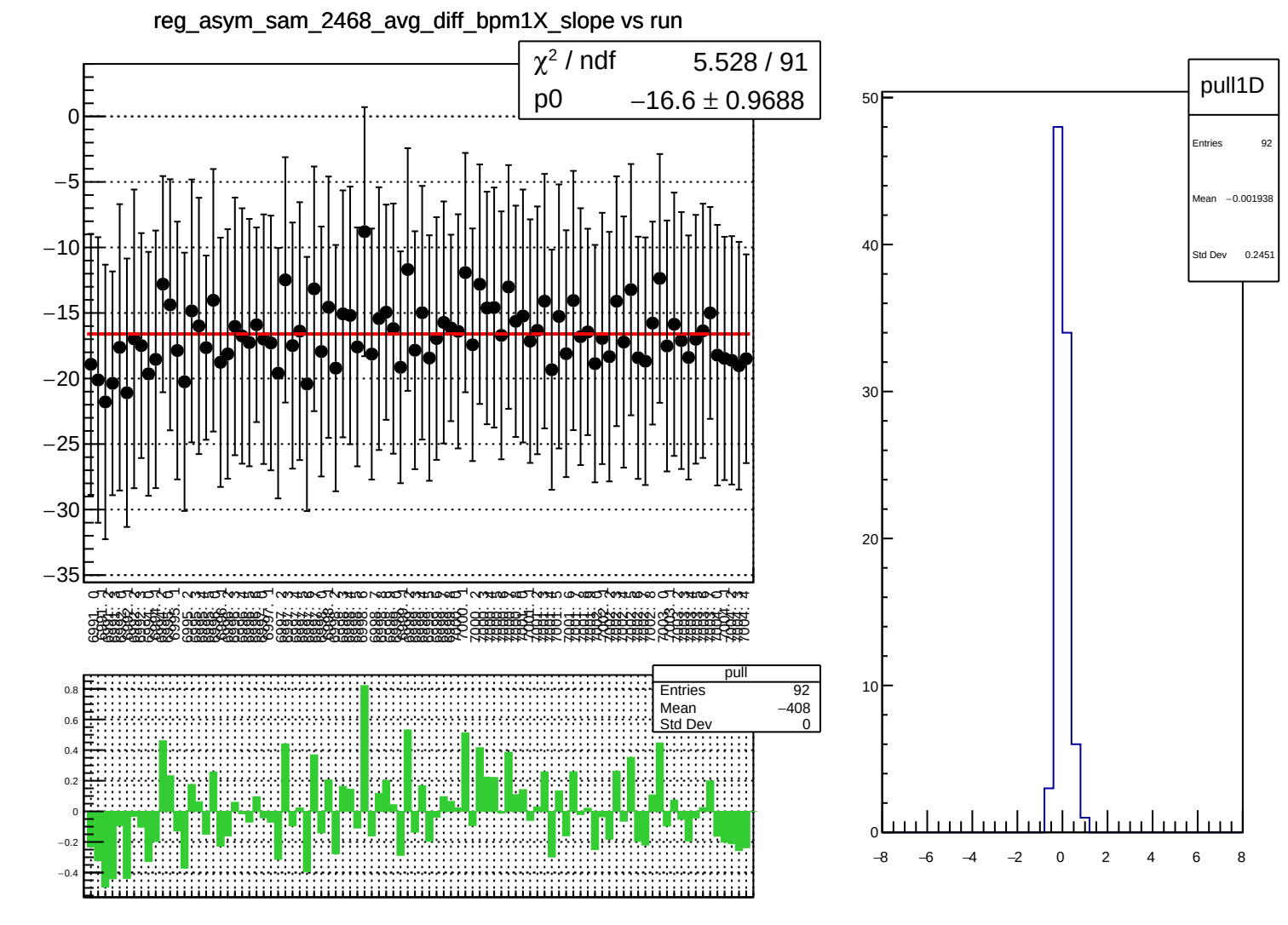

pull1D
Entries 92
Mean −0.002669
Std Dev 0.2558

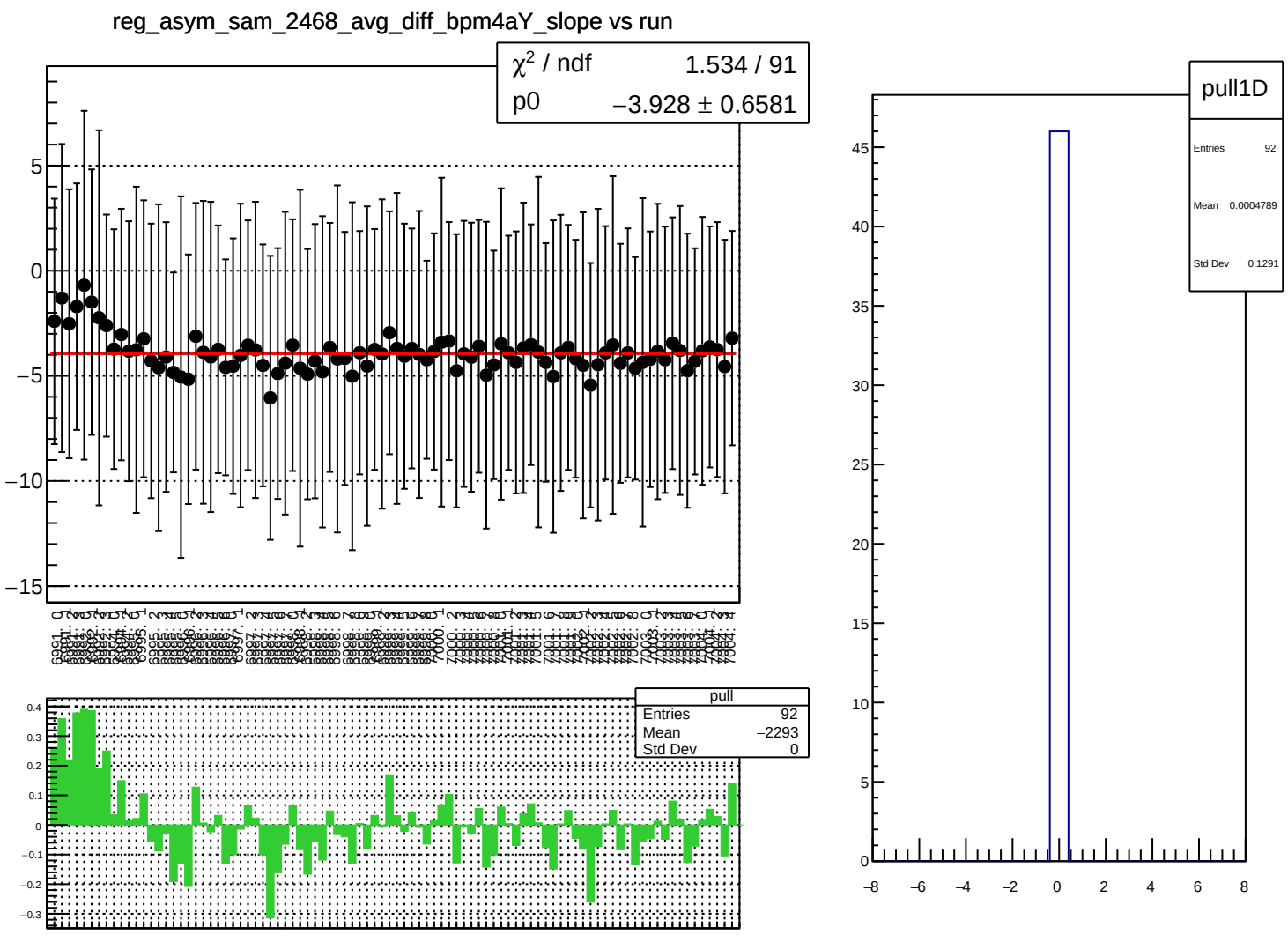

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.482 / 91
p0 −0.2975 ± 0.3369
pull
Entries 92
Mean −998.4
Std Dev 0
pull1D
Entries 92
Mean 0.001956
Std Dev 0.1945

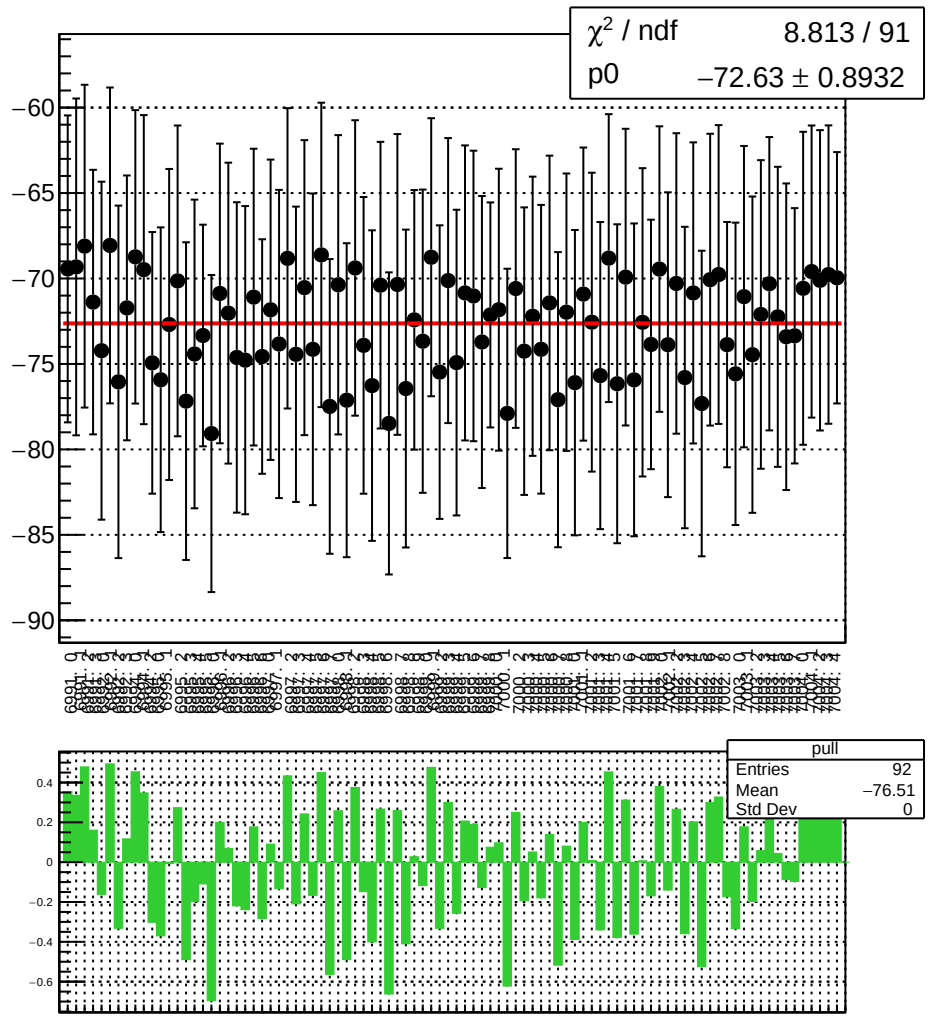

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.275 / 91
p0 −35.39 ± 0.4571
pull
Entries 92
Mean 262.1
Std Dev 0
pull1D
Entries 92
Mean −0.002044
Std Dev 0.3175

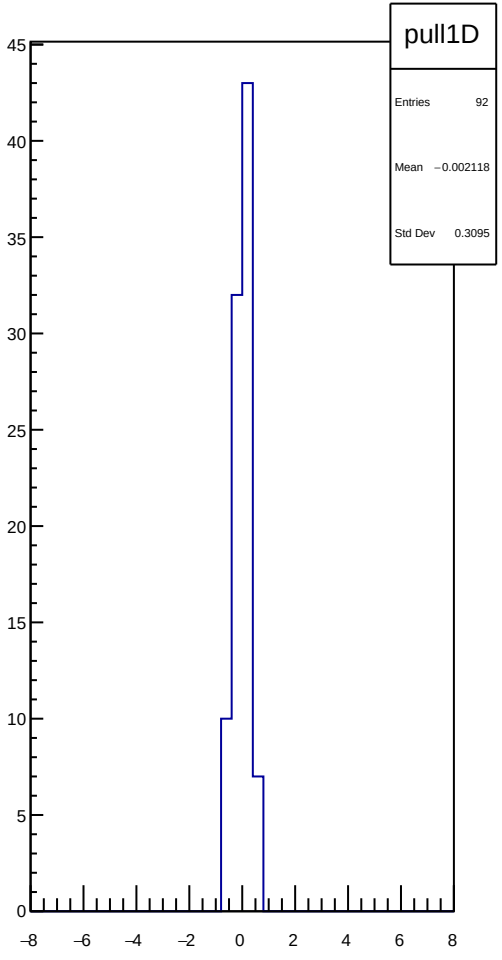

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.411 / 91
p0 31.16 ± 0.3545
pull
Entries 92
Mean −859.3
Std Dev 0
pull1D
Entries 92
Mean −0.003816
Std Dev 0.2425

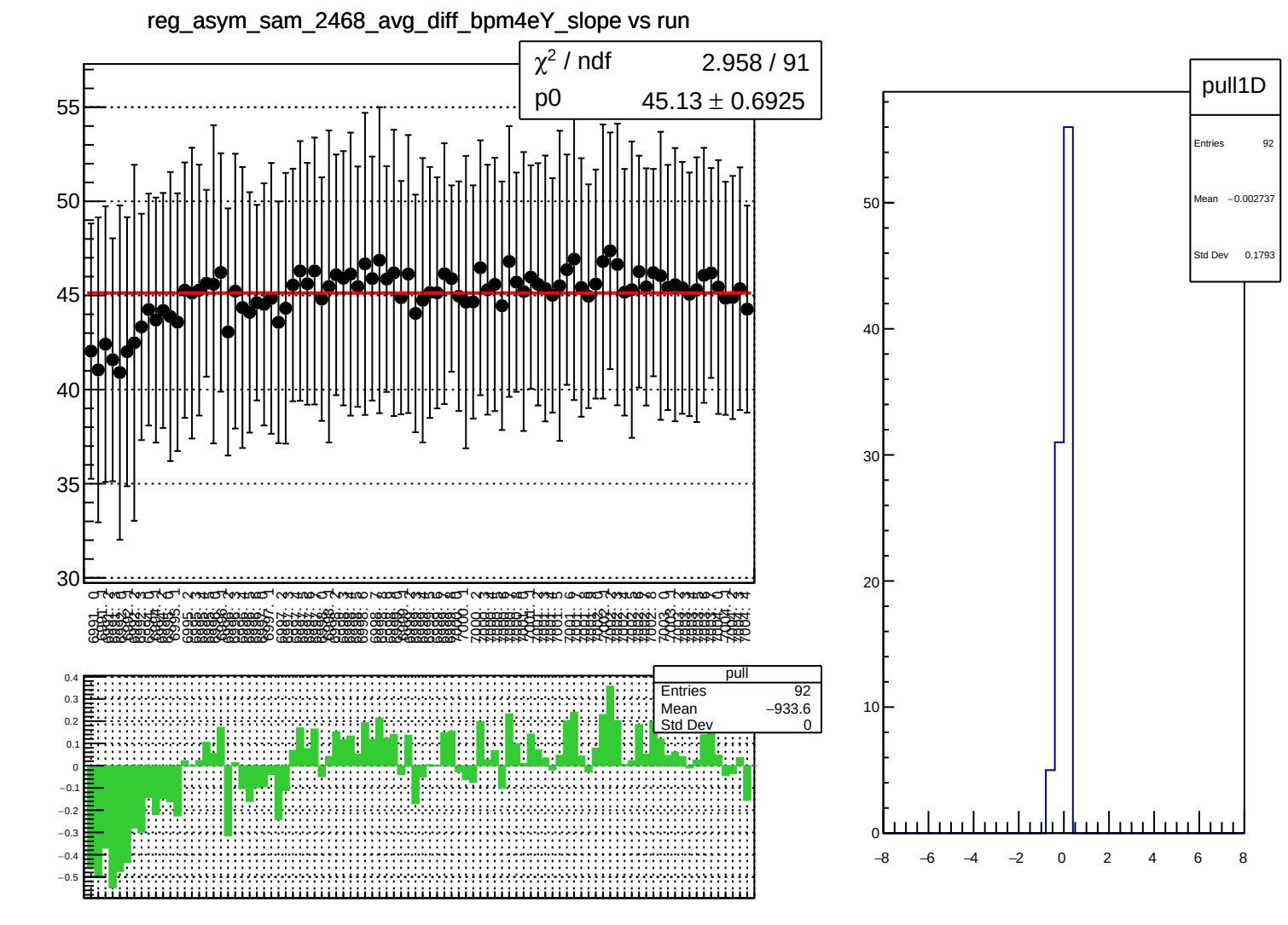

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 10.68 / 91
p0 0.3347 ± 0.01591
pull
Entries 92
Mean 132.6
Std Dev 188.2
pull1D
Entries 92
Mean −0.004535
Std Dev 0.3407

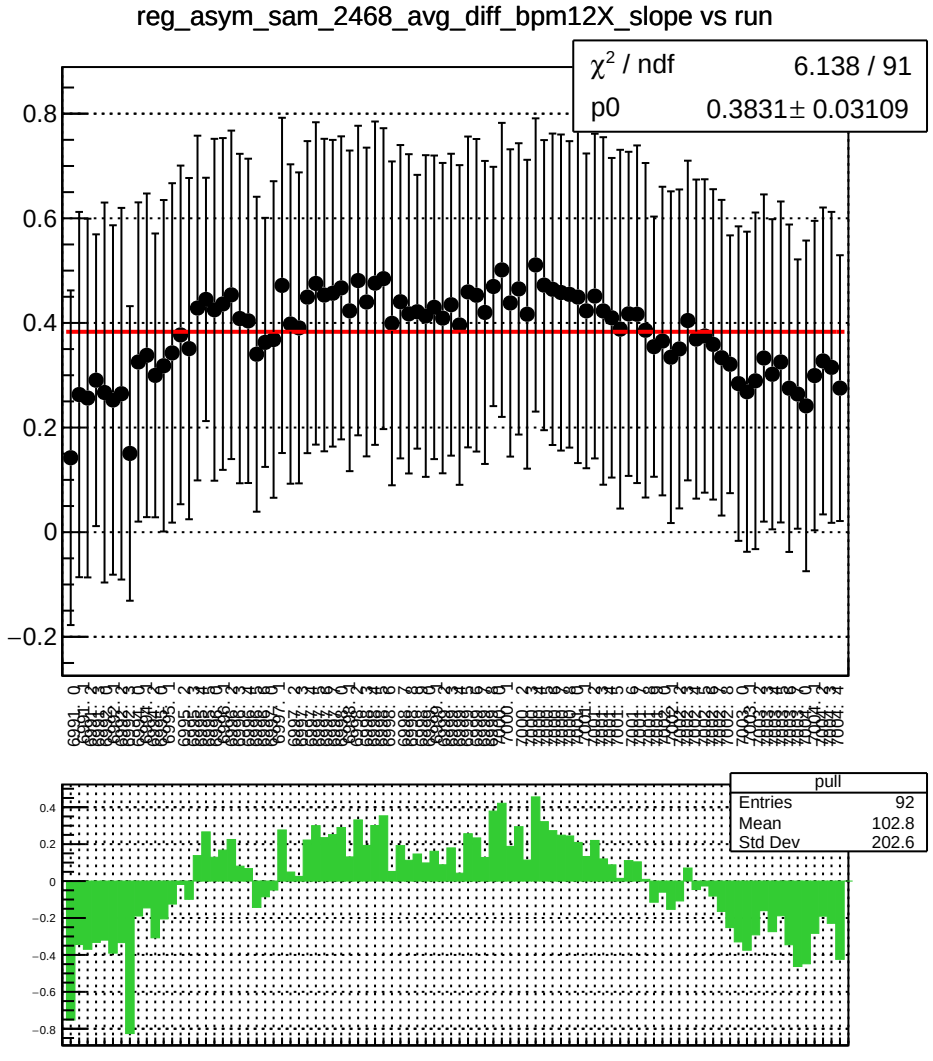

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 5.528 / 91
p0 −16.6 ± 0.9688
pull
Entries 92
Mean −408
Std Dev 0
pull1D
Entries 92
Mean −0.001938
Std Dev 0.2451

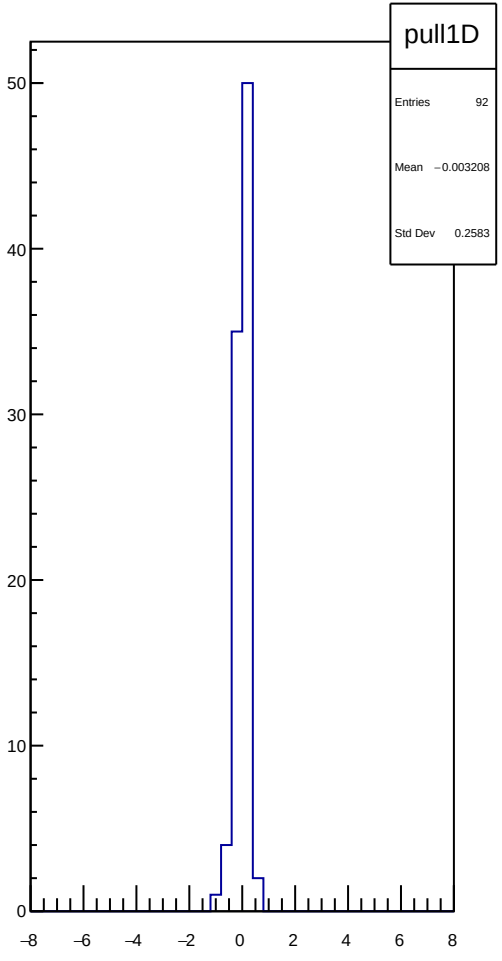

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.534 / 91
p0 −3.928 ± 0.6581
pull
Entries 92
Mean −2293
Std Dev 0
pull1D
Entries 92
Mean 0.0004789
Std Dev 0.1291

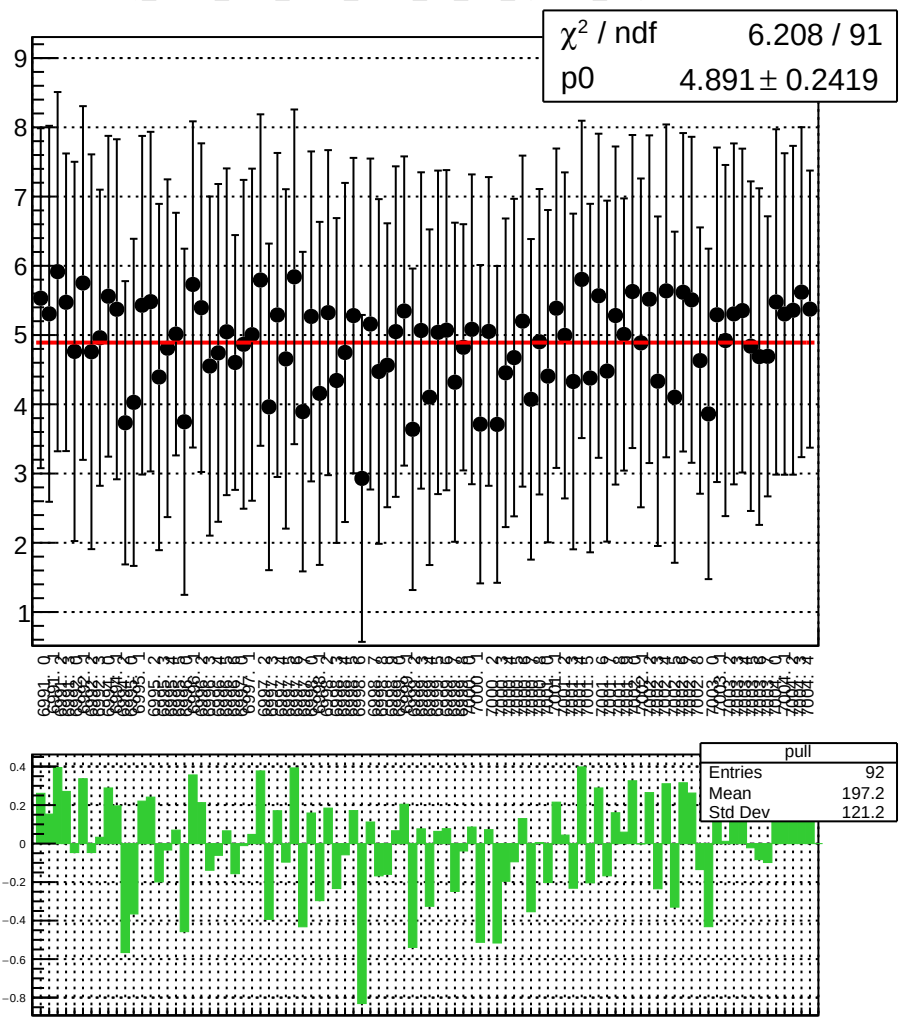

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.813 / 91
p0 −72.63 ± 0.8932
pull
Entries 92
Mean −76.51
Std Dev 0

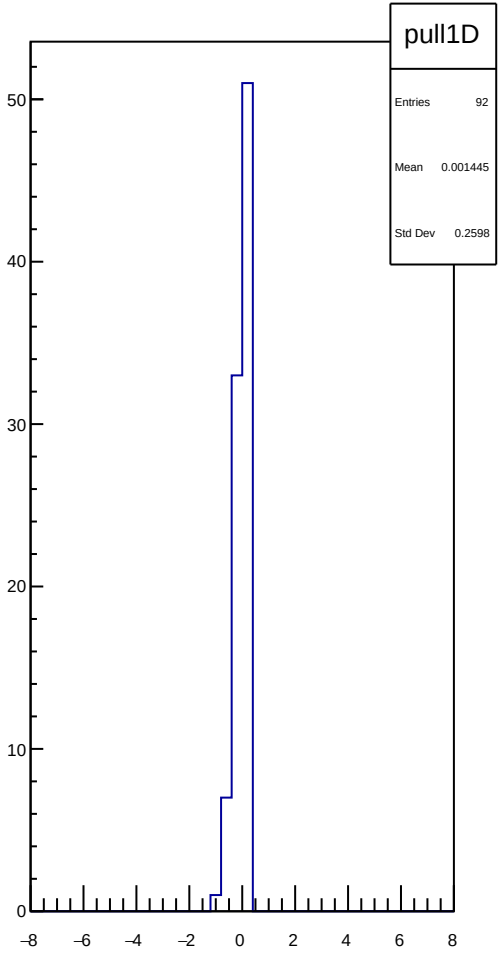

pull1D
Entries 92
Mean −0.002118
Std Dev 0.3095

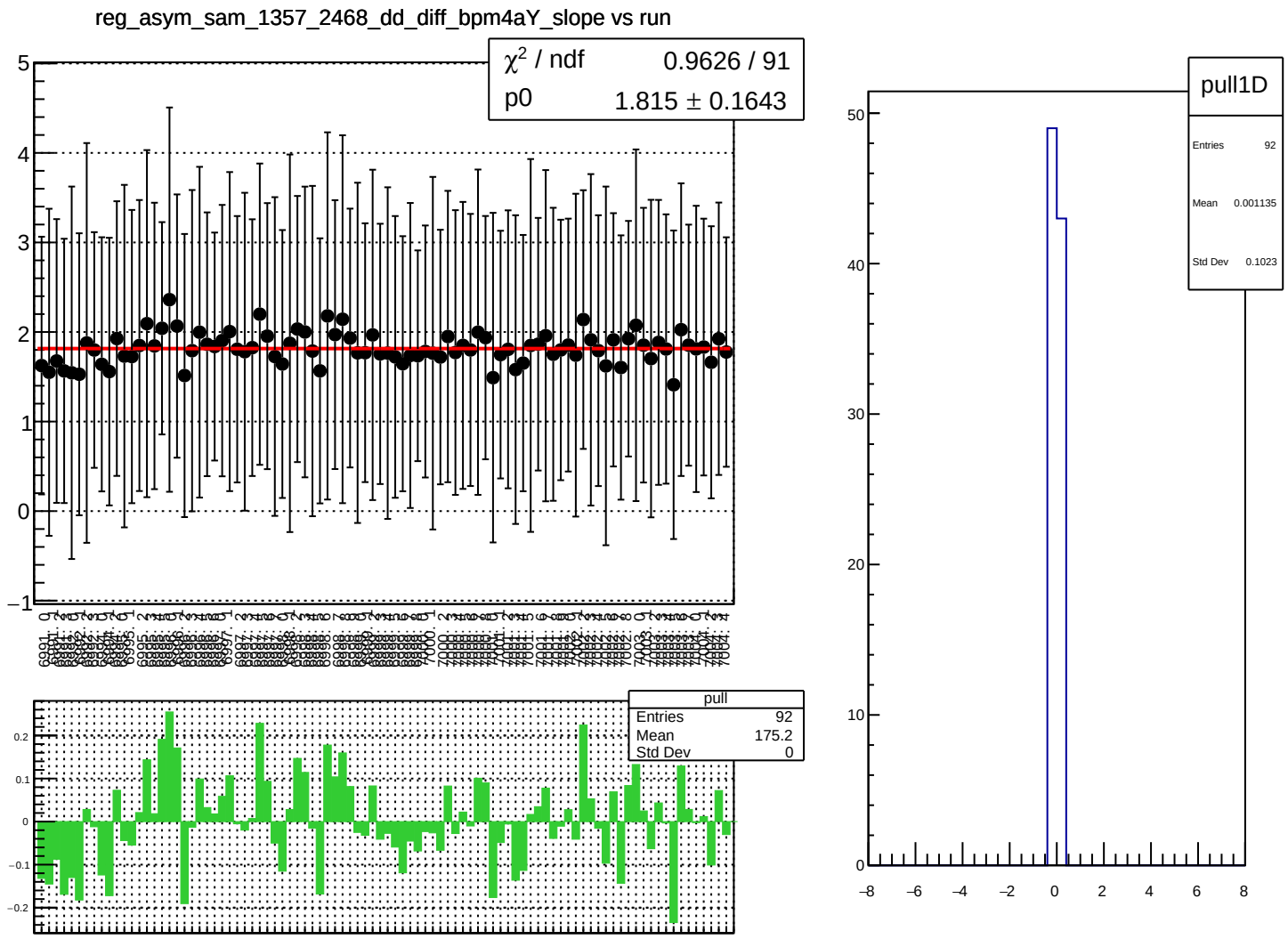

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.958 / 91
p0 45.13 ± 0.6925
pull
Entries 92
Mean −933.6
Std Dev 0
pull1D
Entries 92
Mean −0.002737
Std Dev 0.1793

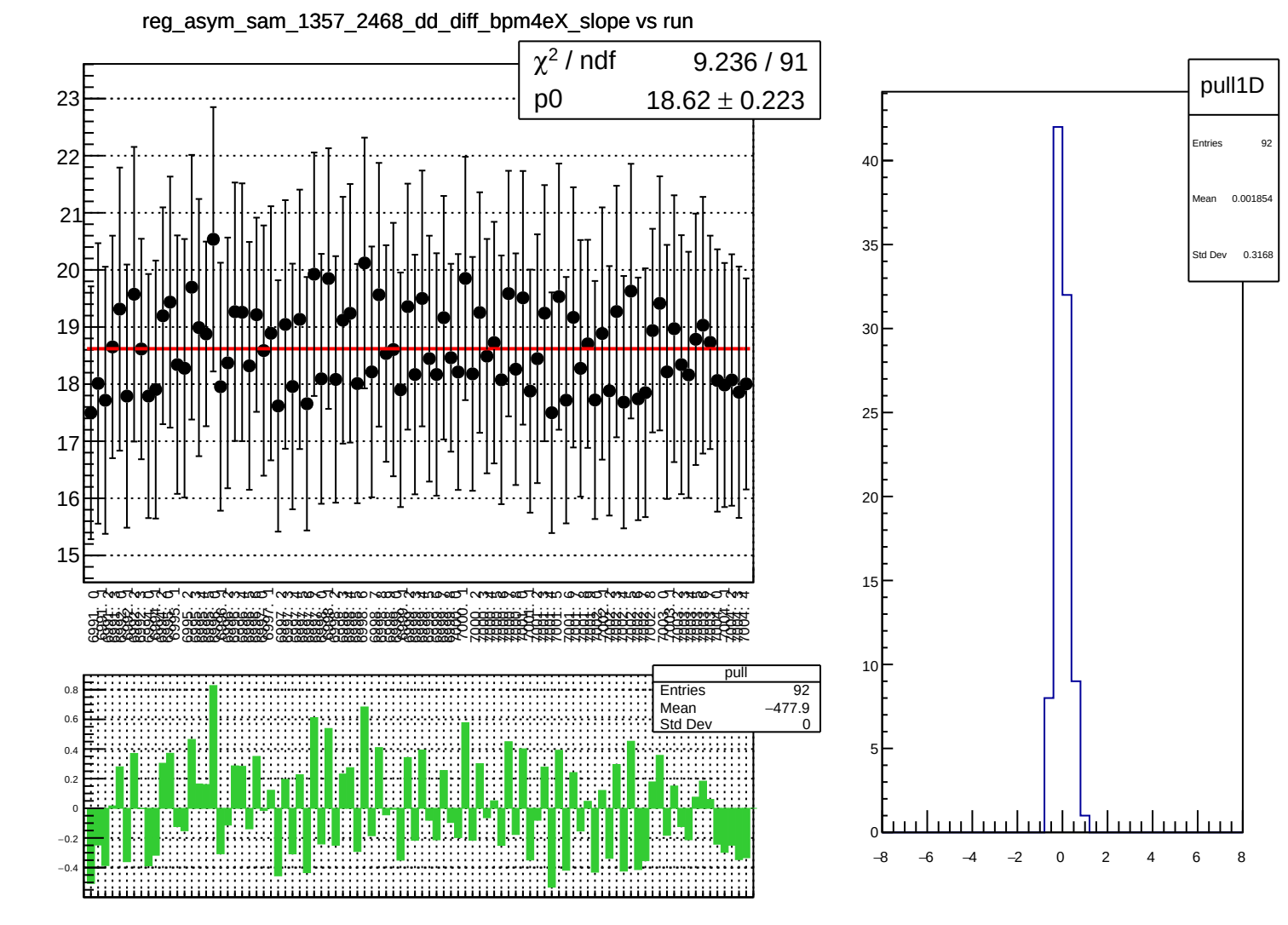

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 6.138 / 91
p0 0.3831± 0.03109
pull
Entries 92
Mean 102.8
Std Dev 202.6

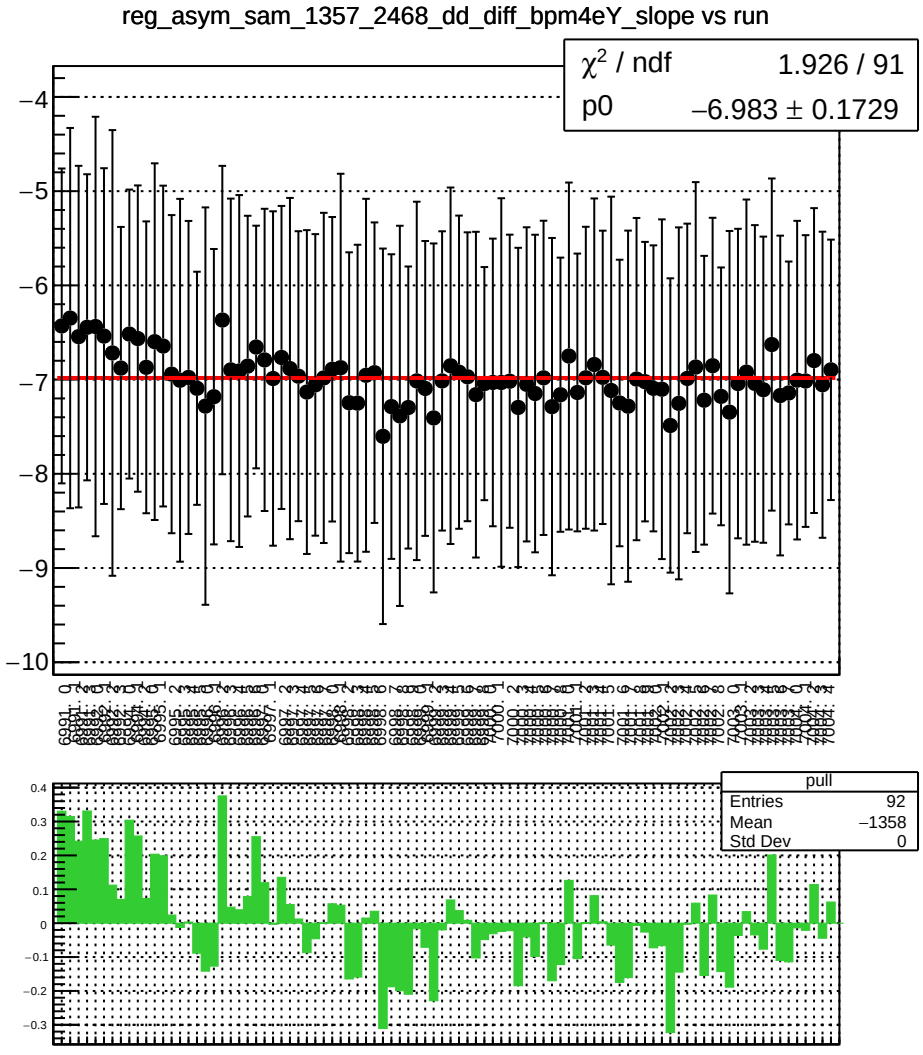

pull1D
Entries 92
Mean −0.003208
Std Dev 0.2583

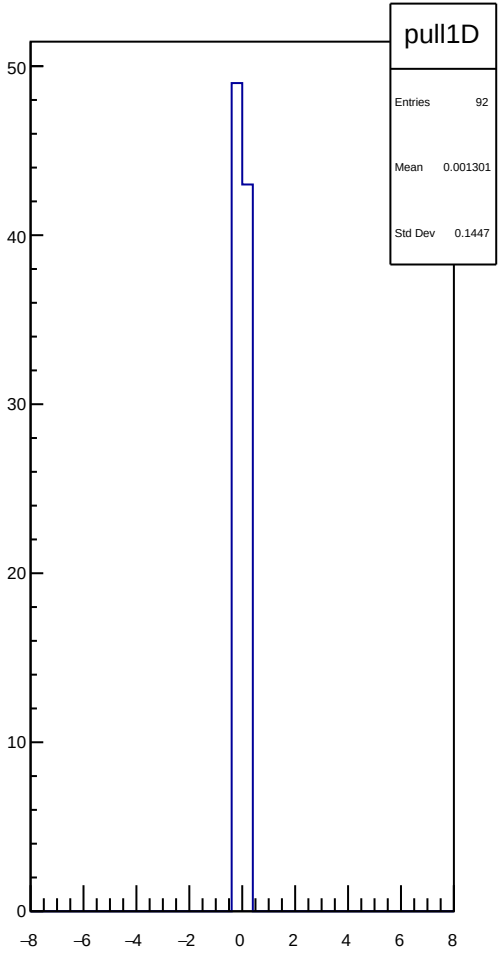

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 6.208 / 91
p0 4.891 ± 0.2419
pull
Entries 92
Mean 197.2
Std Dev 121.2

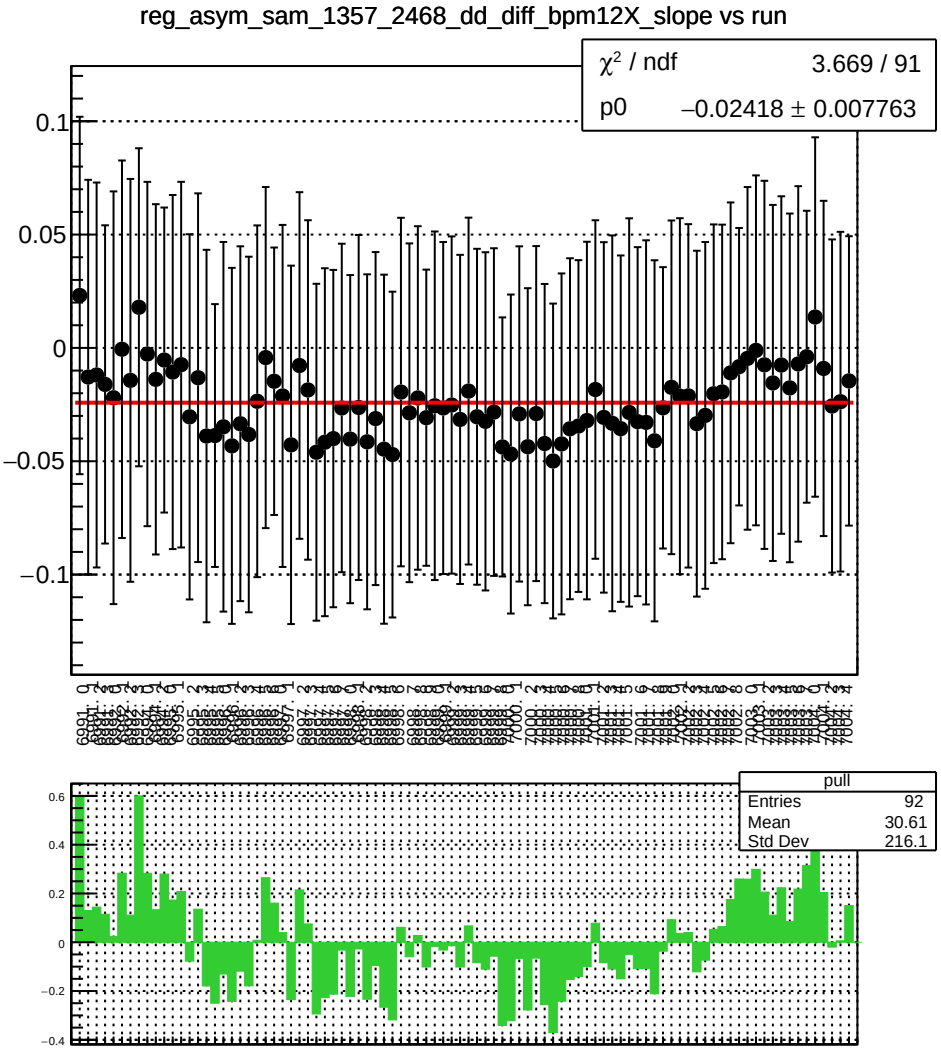

pull1D
Entries 92
Mean 0.001445
Std Dev 0.2598

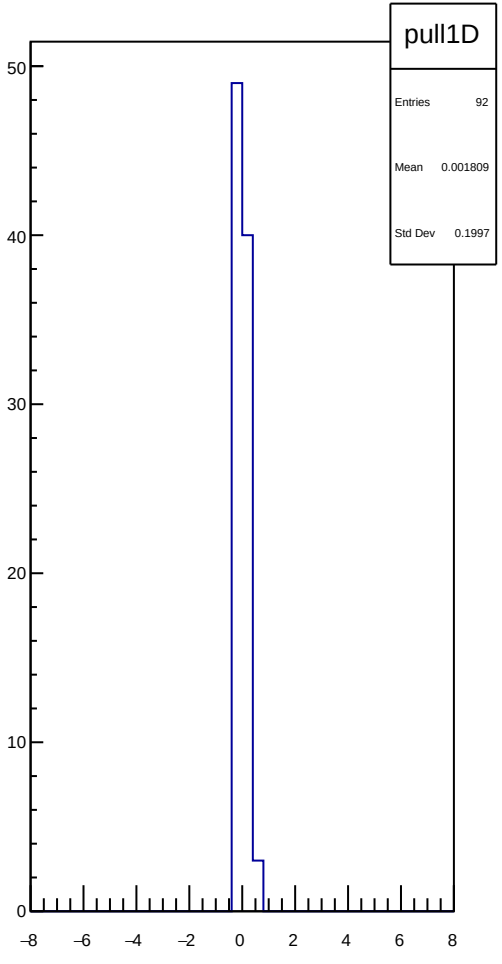

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9626 / 91
p0 1.815 ± 0.1643
pull
Entries 92
Mean 175.2
Std Dev 0
pull1D
Entries 92
Mean 0.001135
Std Dev 0.1023

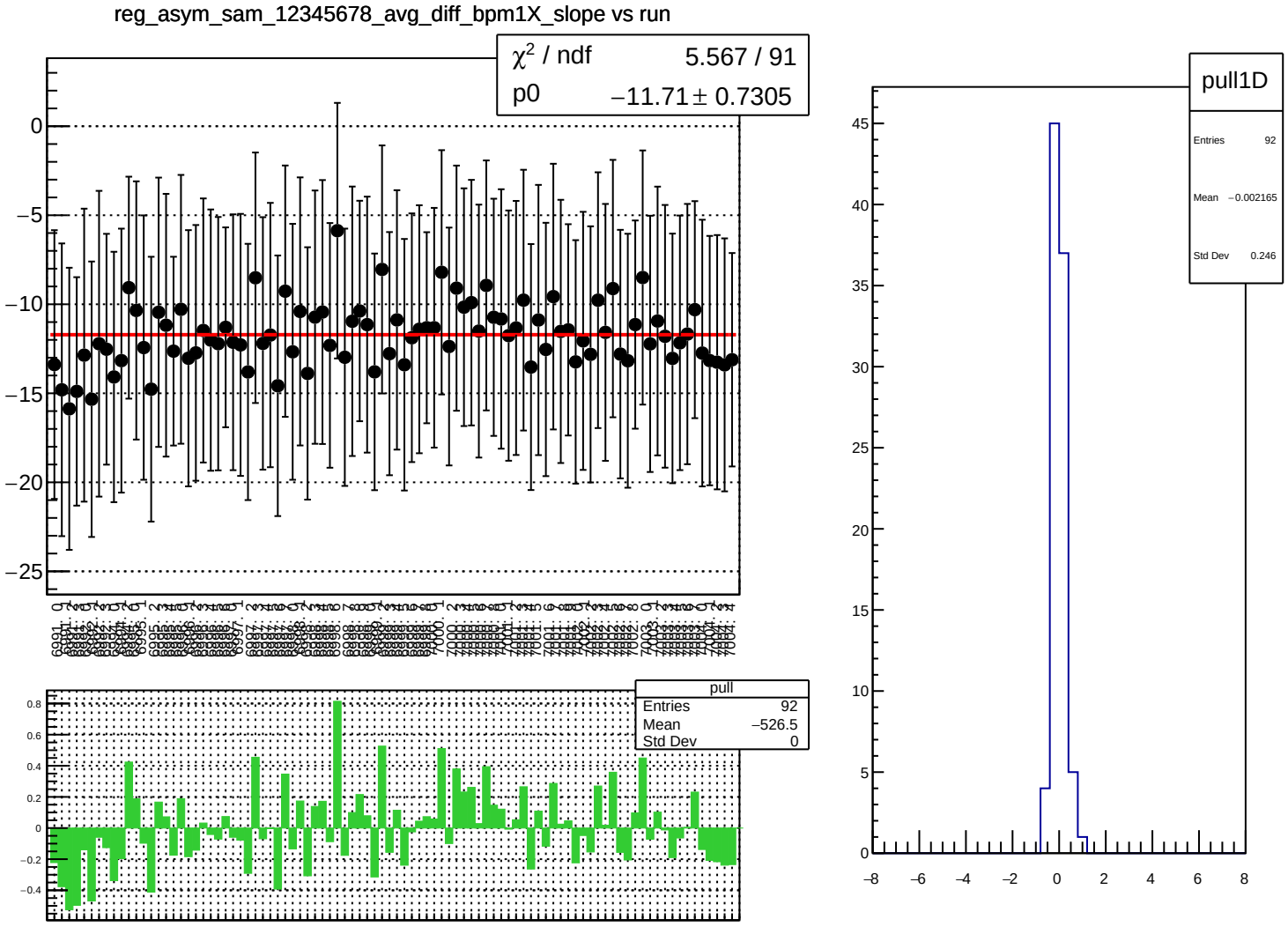

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.236 / 91
p0 18.62 ± 0.223
pull
Entries 92
Mean −477.9
Std Dev 0
pull1D
Entries 92
Mean 0.001854
Std Dev 0.3168

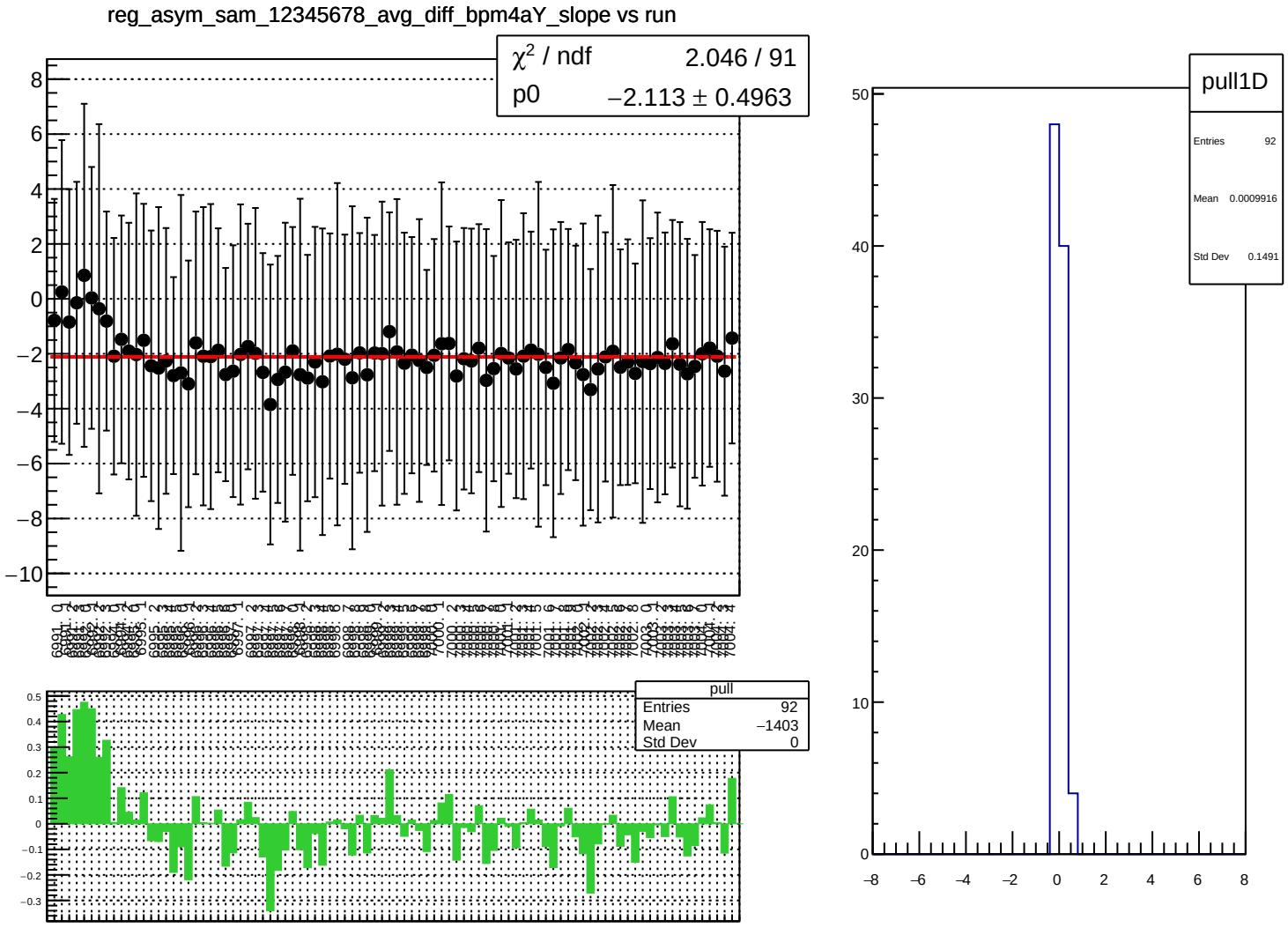

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.926 / 91
p0 −6.983 ± 0.1729
pull
Entries 92
Mean −1358
Std Dev 0

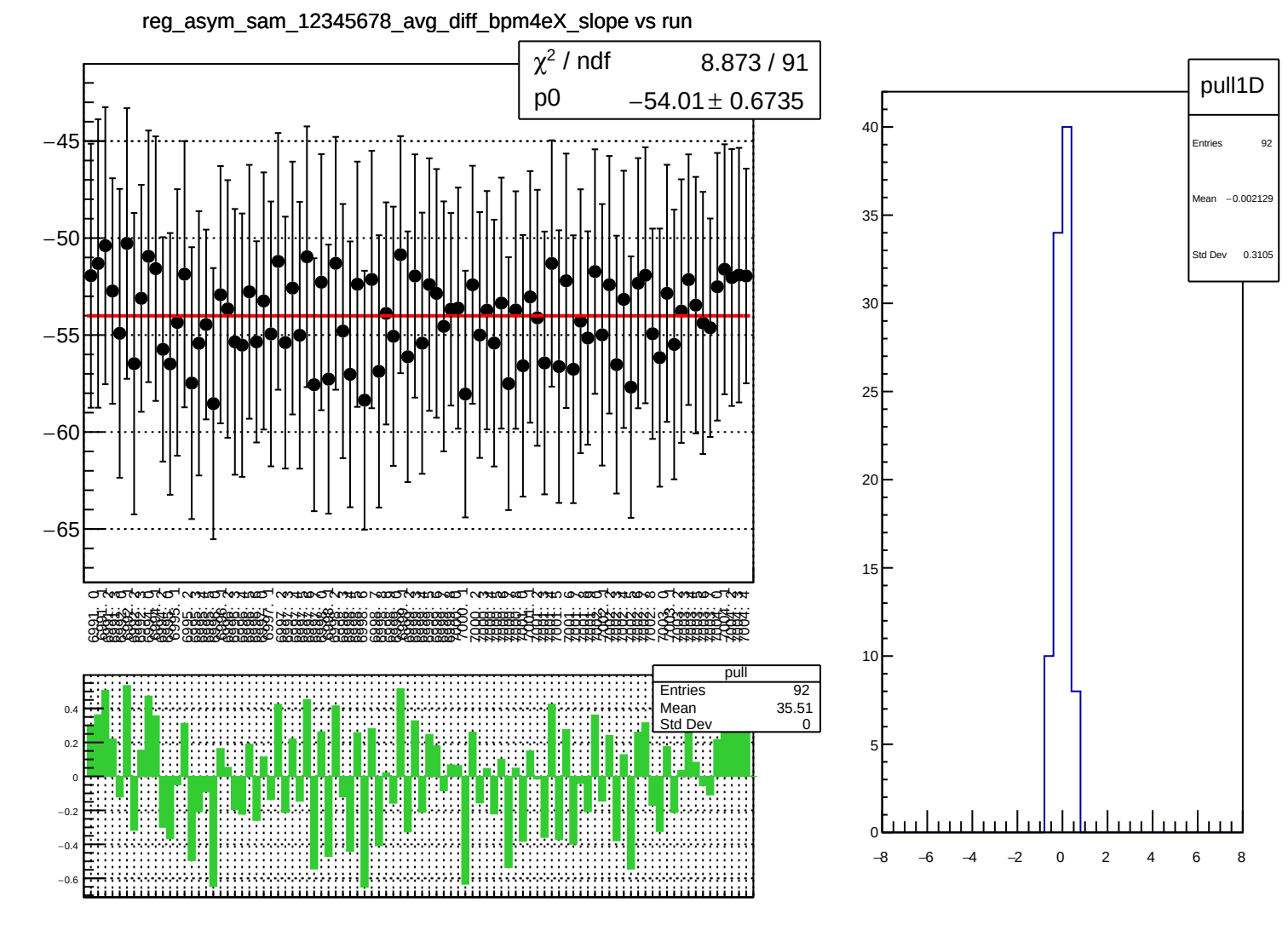

pull1D
Entries 92
Mean 0.001301
Std Dev 0.1447

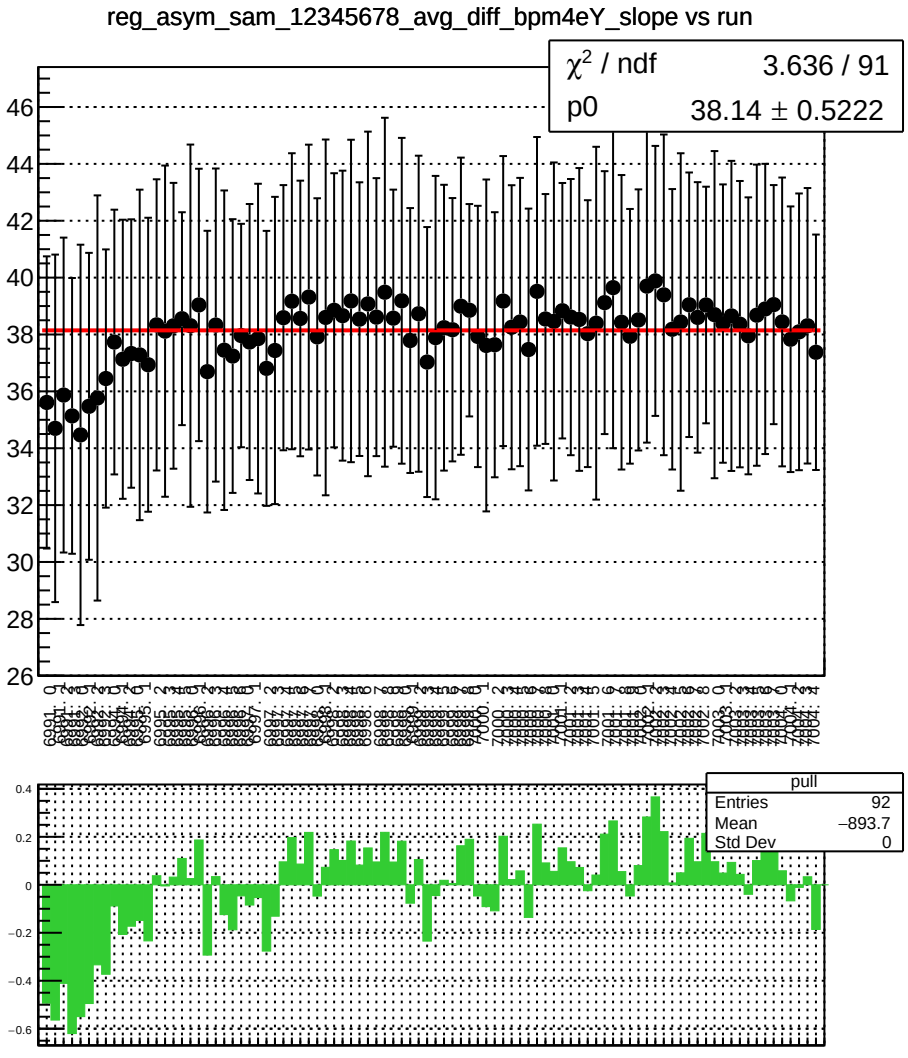

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.669 / 91
p0 −0.02418 ± 0.007763
pull
Entries 92
Mean 30.61
Std Dev 216.1

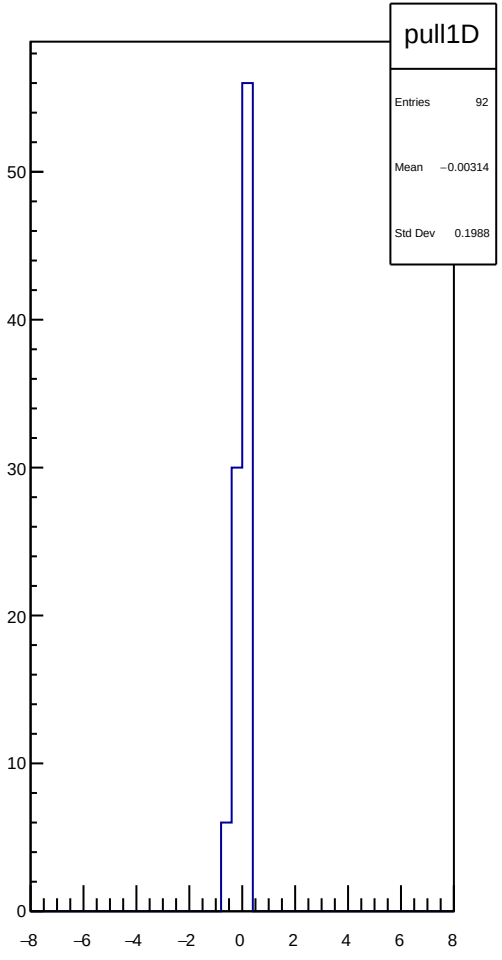

pull1D
Entries 92
Mean 0.001809
Std Dev 0.1997

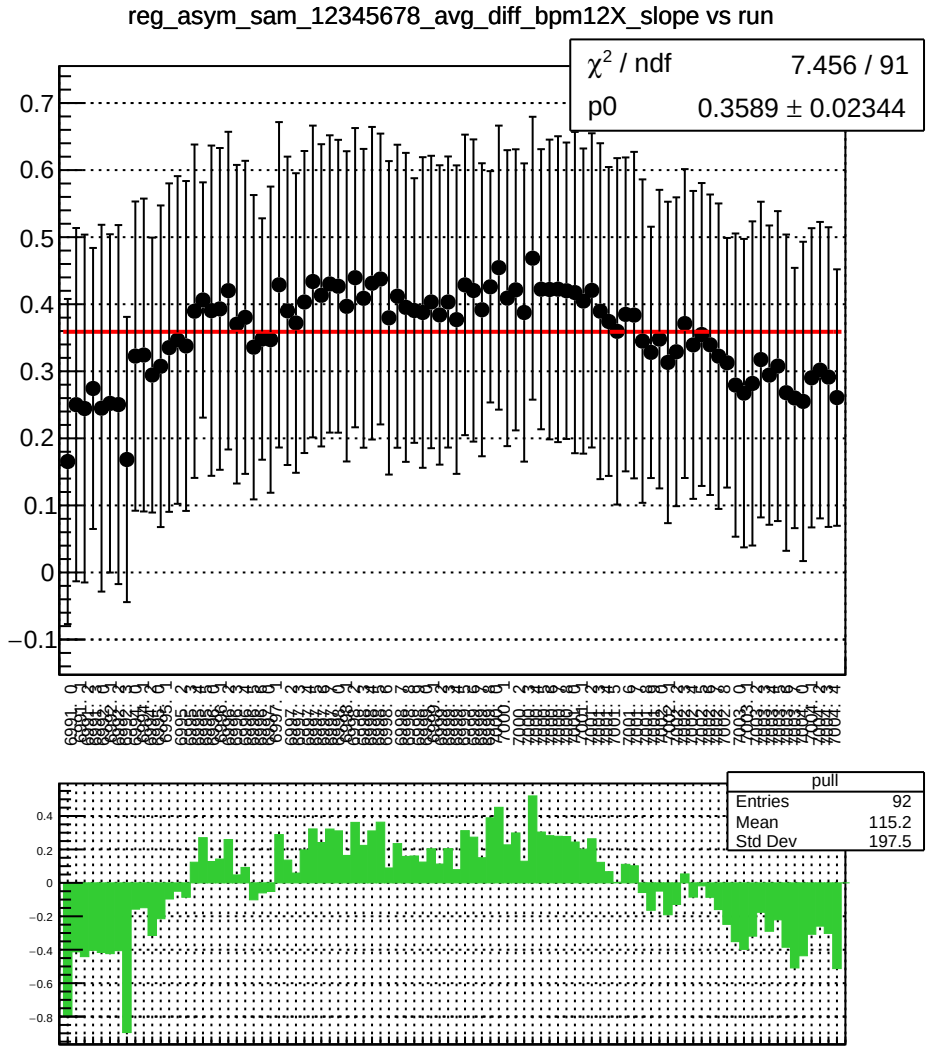

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 5.567 / 91
p0 −11.71 ± 0.7305
pull
Entries 92
Mean −526.5
Std Dev 0
pull1D
Entries 92
Mean −0.002165
Std Dev 0.246

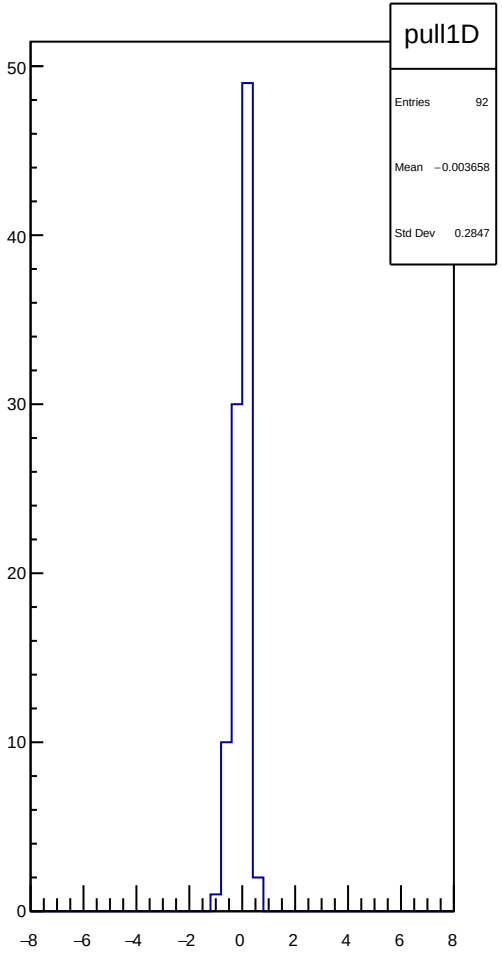

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.046 / 91
p0 −2.113 ± 0.4963
pull
Entries 92
Mean −1403
Std Dev 0
pull1D
Entries 92
Mean 0.0009916
Std Dev 0.1491

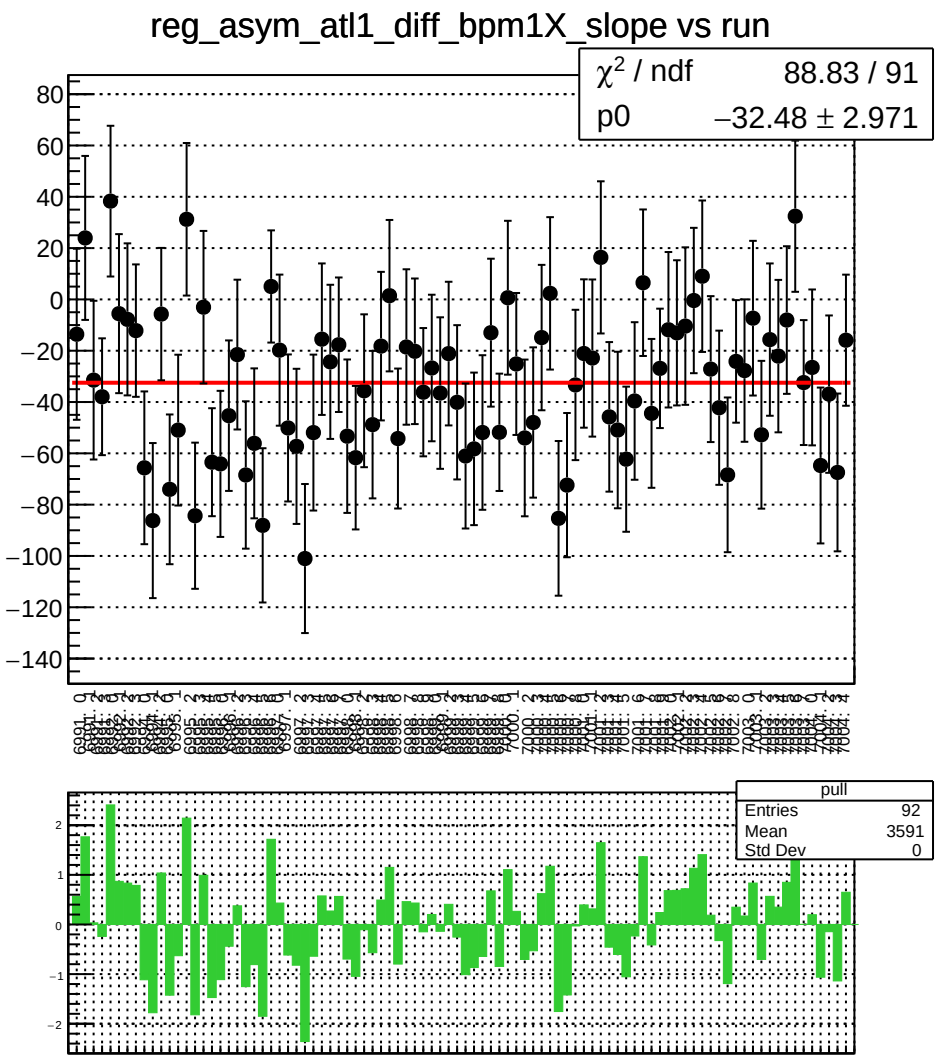

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.873 / 91
p0 −54.01 ± 0.6735
−45
−50
−55
−60
−65
pull
Entries 92
Mean 35.51
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.002129
Std Dev 0.3105
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

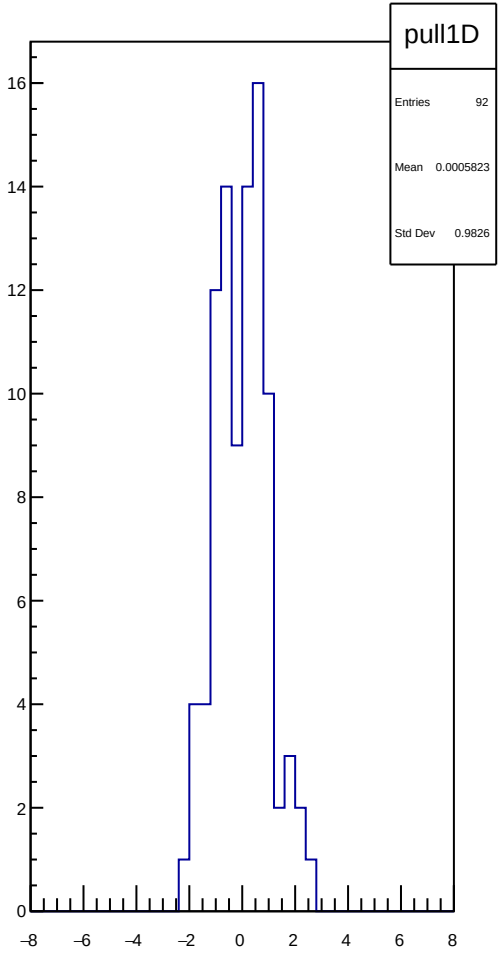

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.636 / 91
p0 38.14 ± 0.5222
pull
Entries 92
Mean −893.7
Std Dev 0

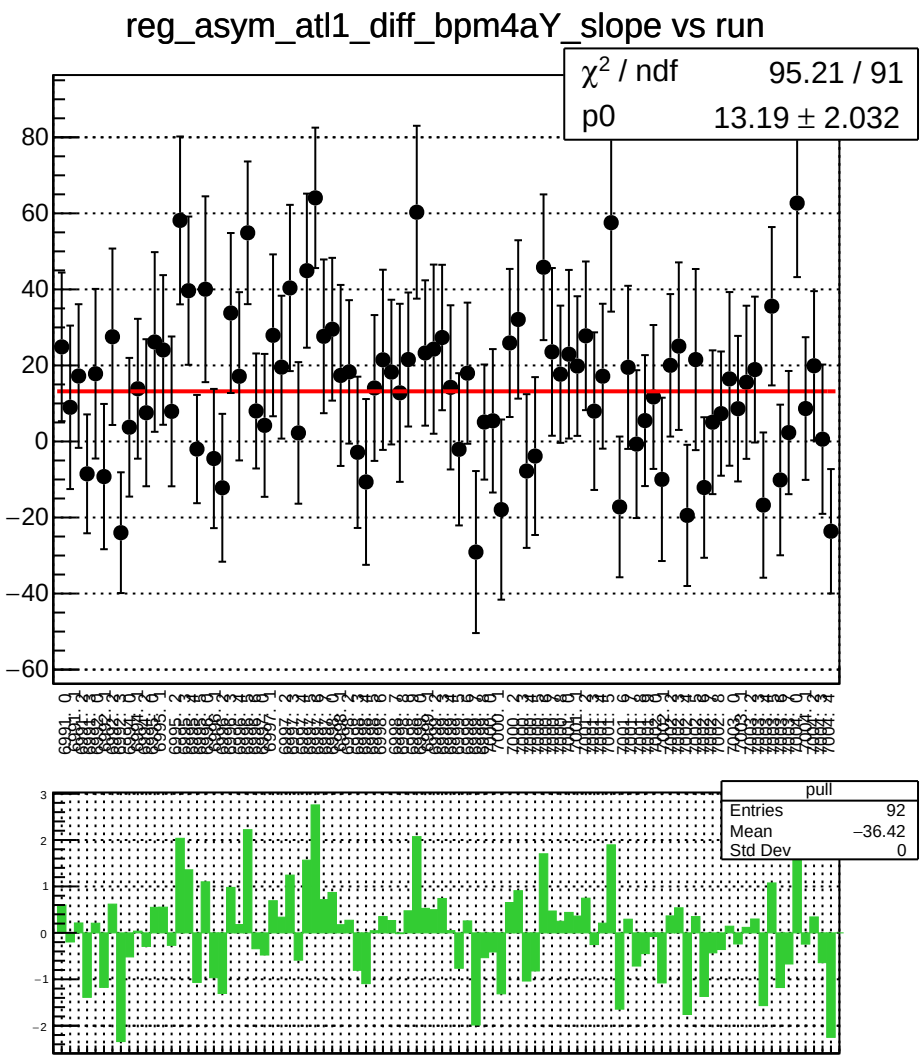

pull1D
Entries 92
Mean −0.00314
Std Dev 0.1988

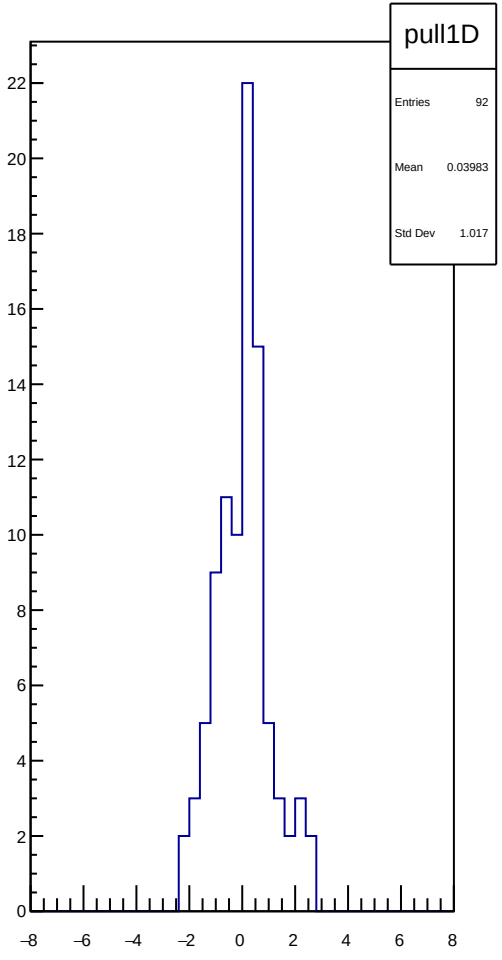

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 7.456 / 91
p0 0.3589 ± 0.02344
pull
Entries 92
Mean 115.2
Std Dev 197.5

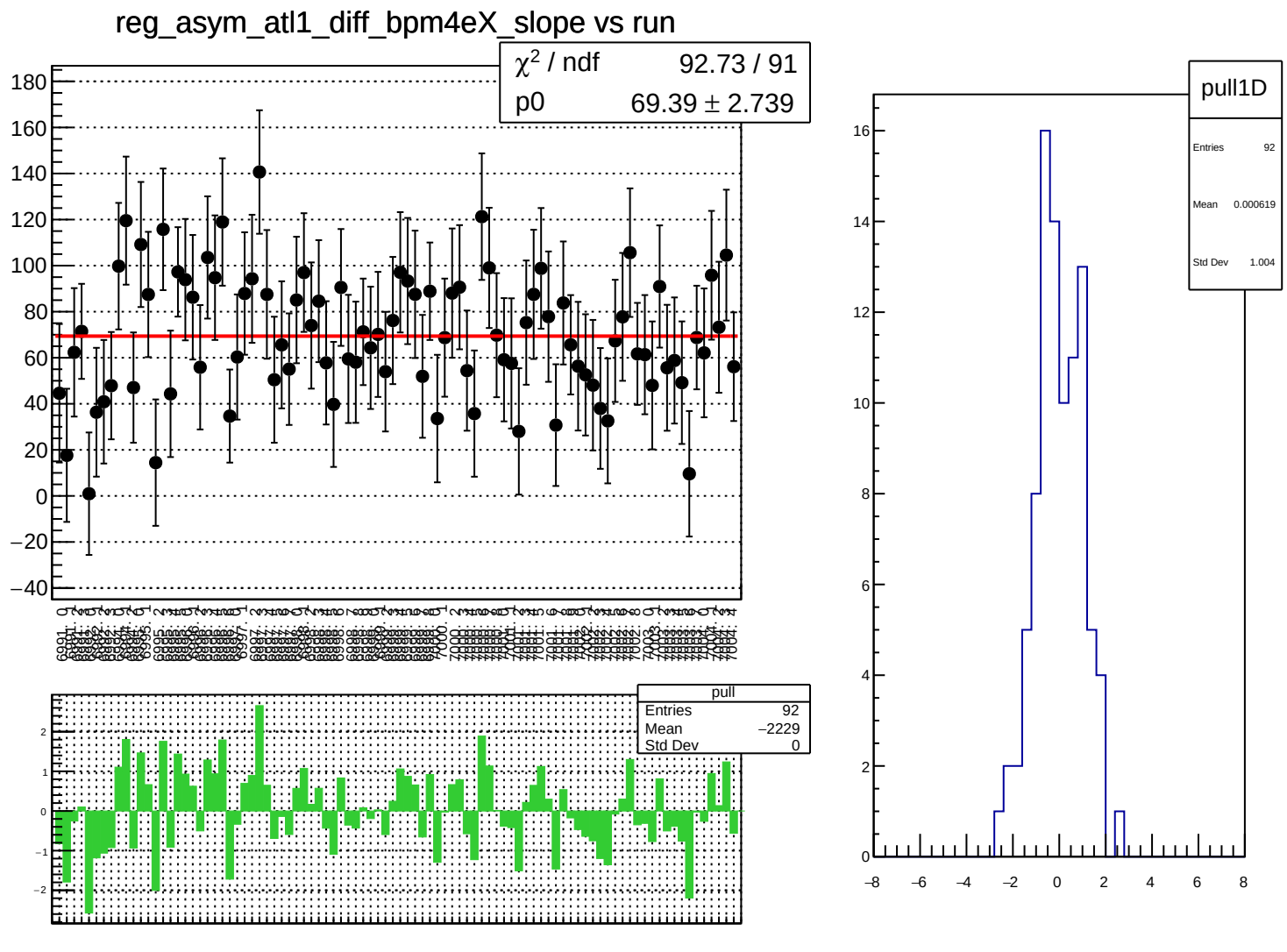

pull1D
Entries 92
Mean −0.003658
Std Dev 0.2847

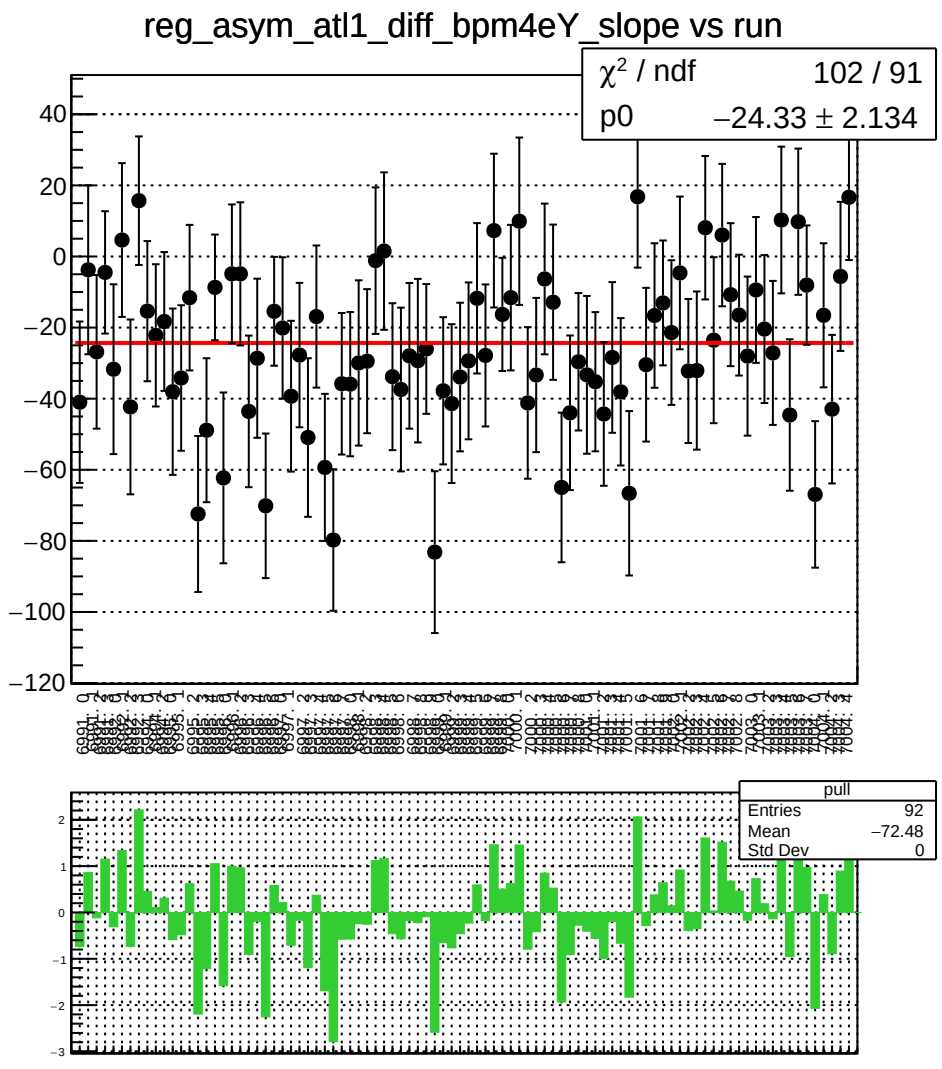

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 88.83 / 91
p0 −32.48 ± 2.971
pull
Entries 92
Mean 3591
Std Dev 0

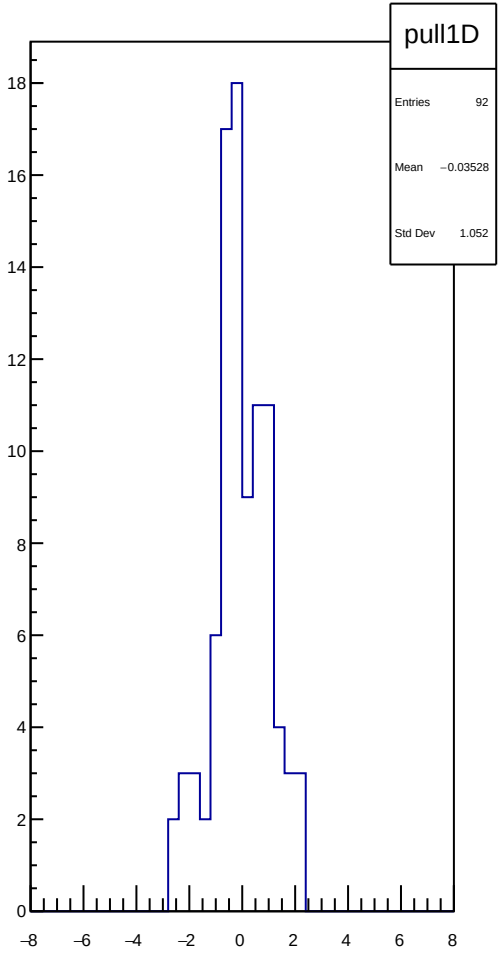

pull1D
Entries 92
Mean 0.0005823
Std Dev 0.9826

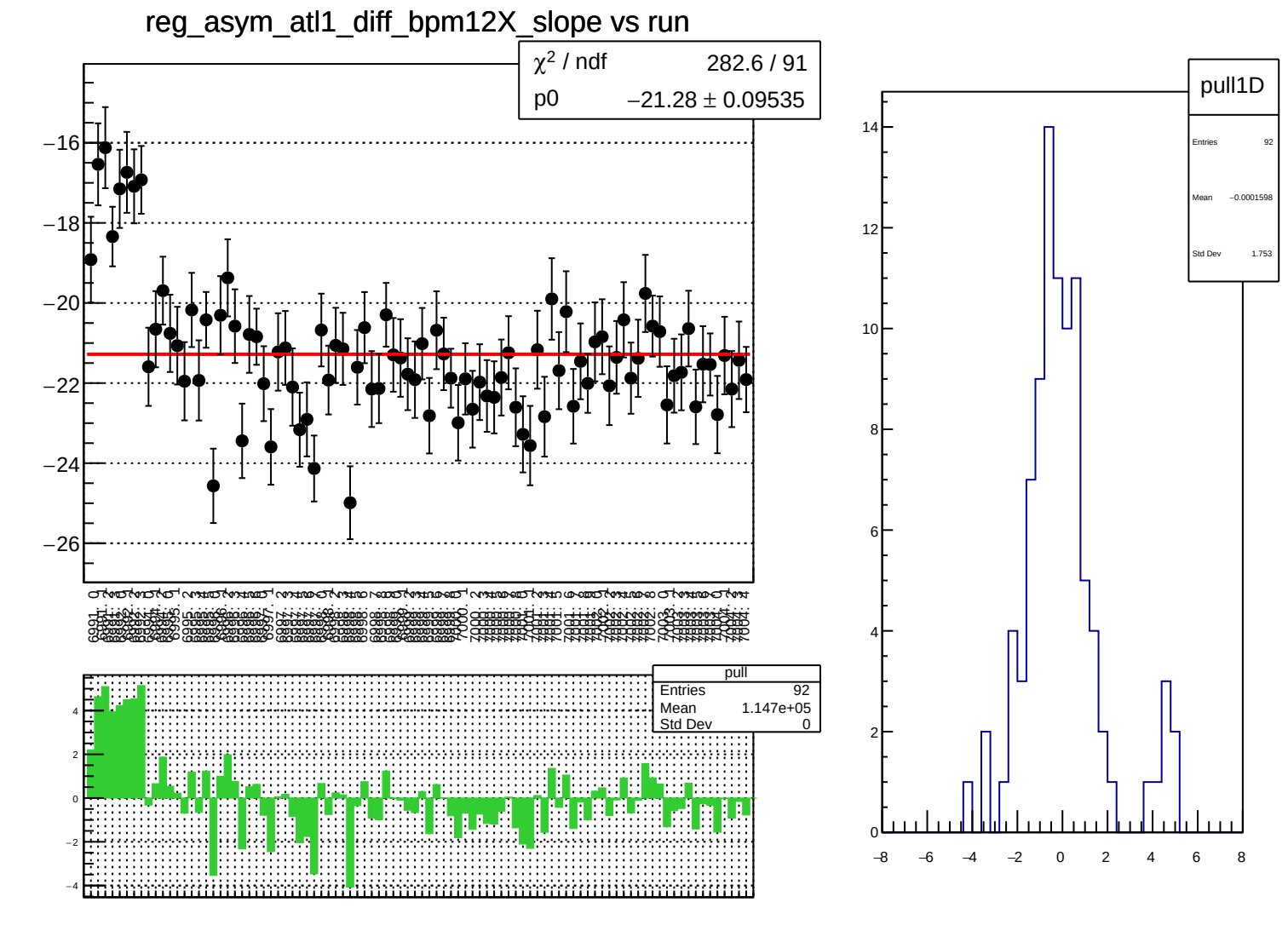

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 95.21 / 91
p0 13.19 ± 2.032
pull
Entries 92
Mean −36.42
Std Dev 0

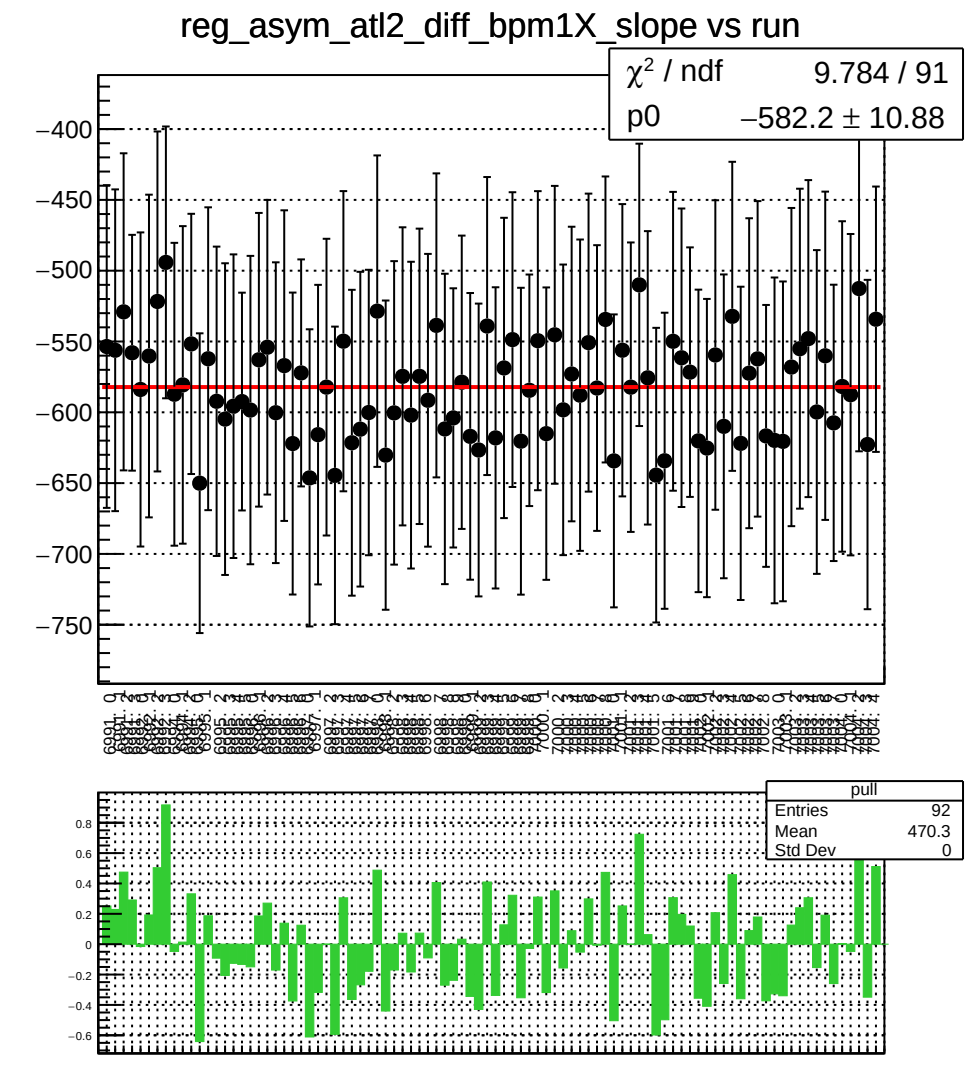

pull1D
Entries 92
Mean 0.03983
Std Dev 1.017

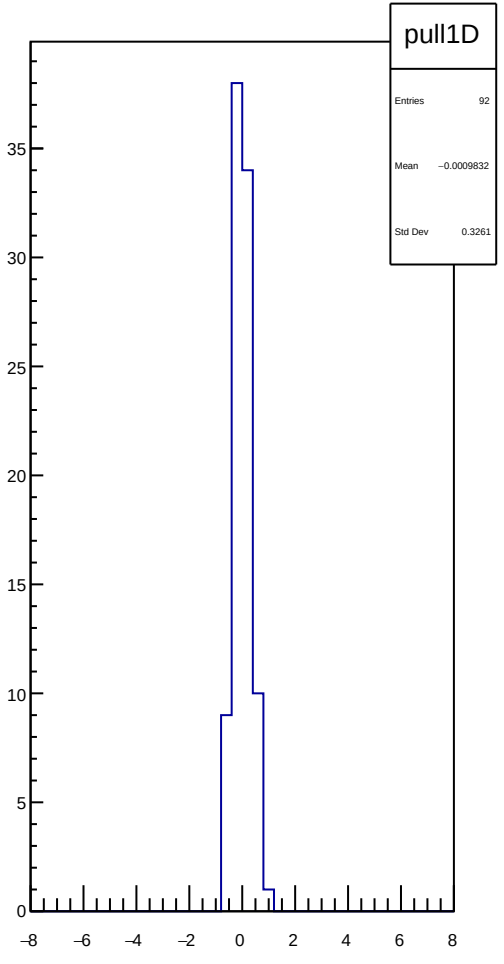

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 92.73 / 91
p0 69.39 ± 2.739
pull
Entries 92
Mean −2229
Std Dev 0
pull1D
Entries 92
Mean 0.000619
Std Dev 1.004

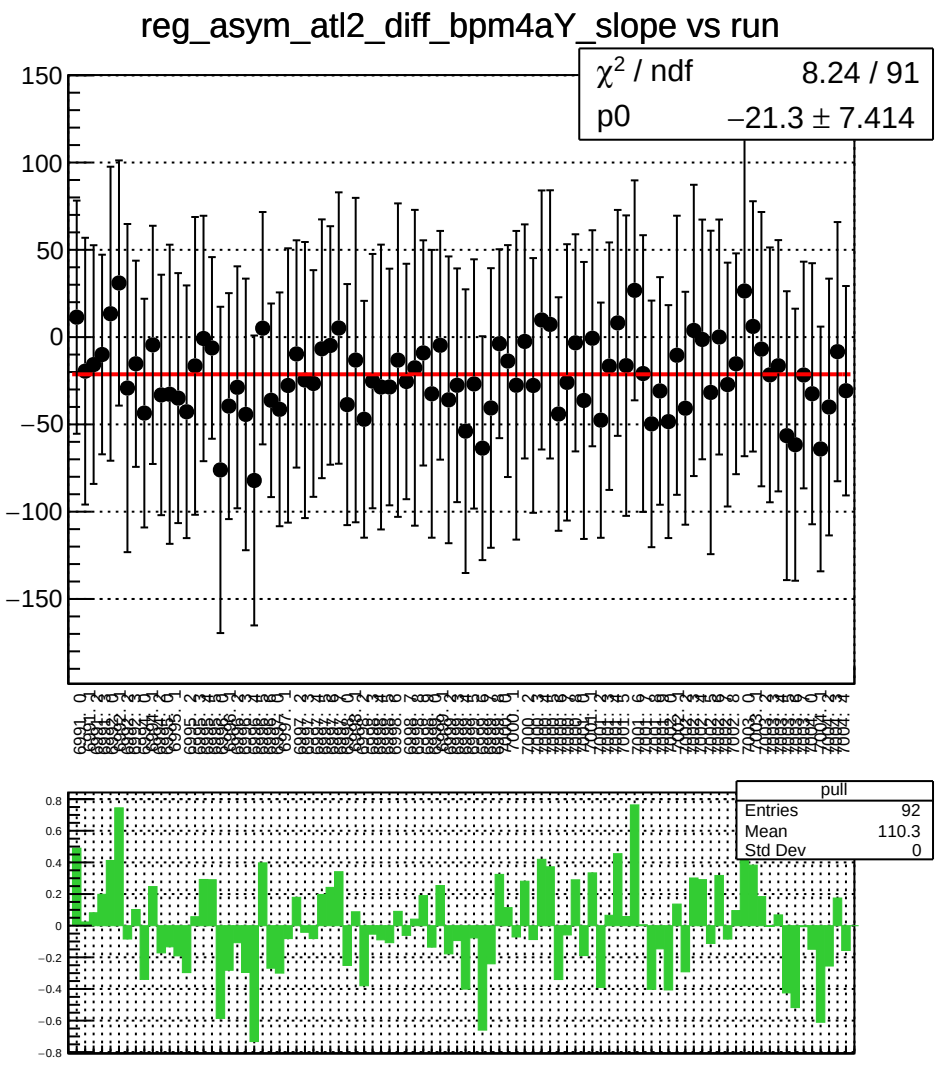

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 102 / 91
p0 −24.33 ± 2.134
pull
Entries 92
Mean −72.48
Std Dev 0

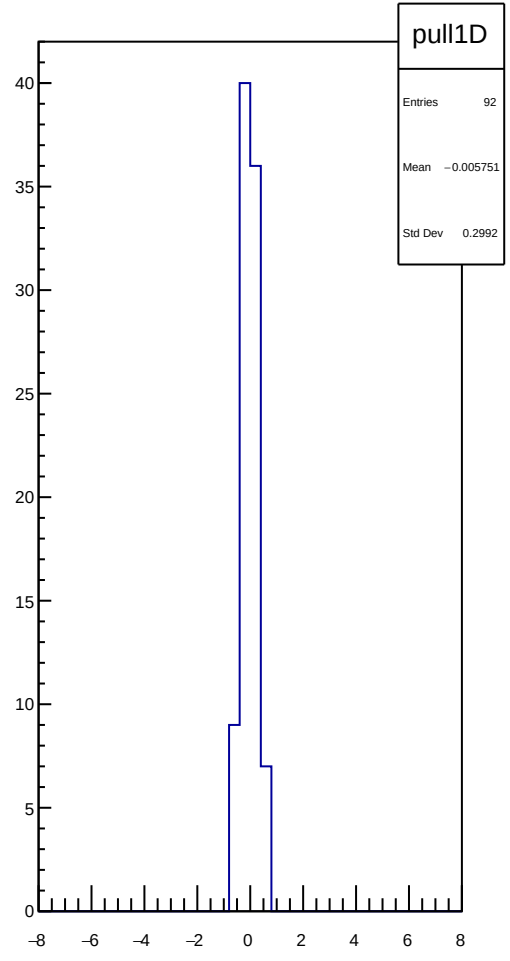

pull1D
Entries 92
Mean −0.03528
Std Dev 1.052

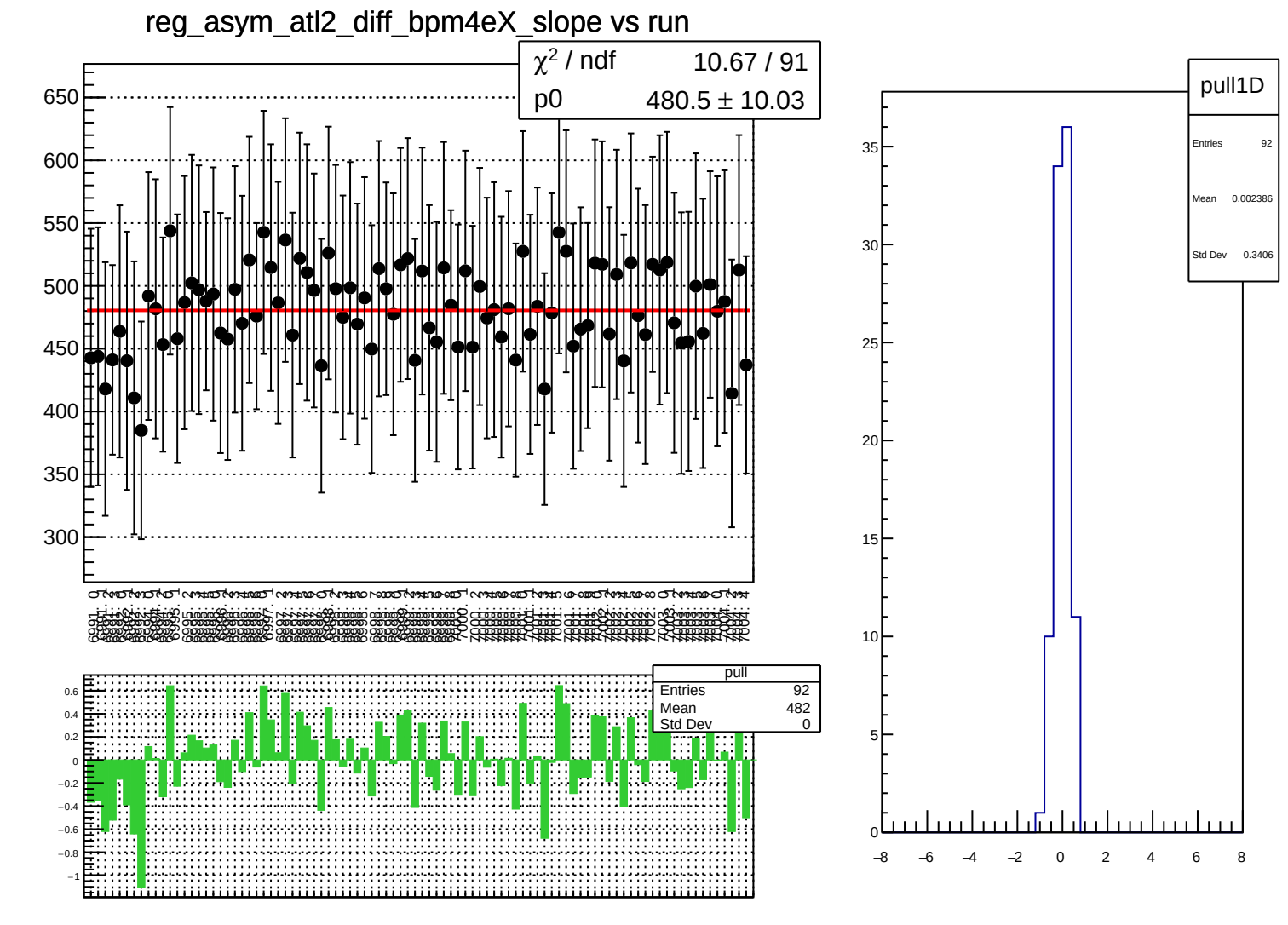

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 282.6 / 91
p0 −21.28 ± 0.09535
pull
Entries 92
Mean 1.147e+05
Std Dev 0
pull1D
Entries 92
Mean −0.0001598
Std Dev 1.753

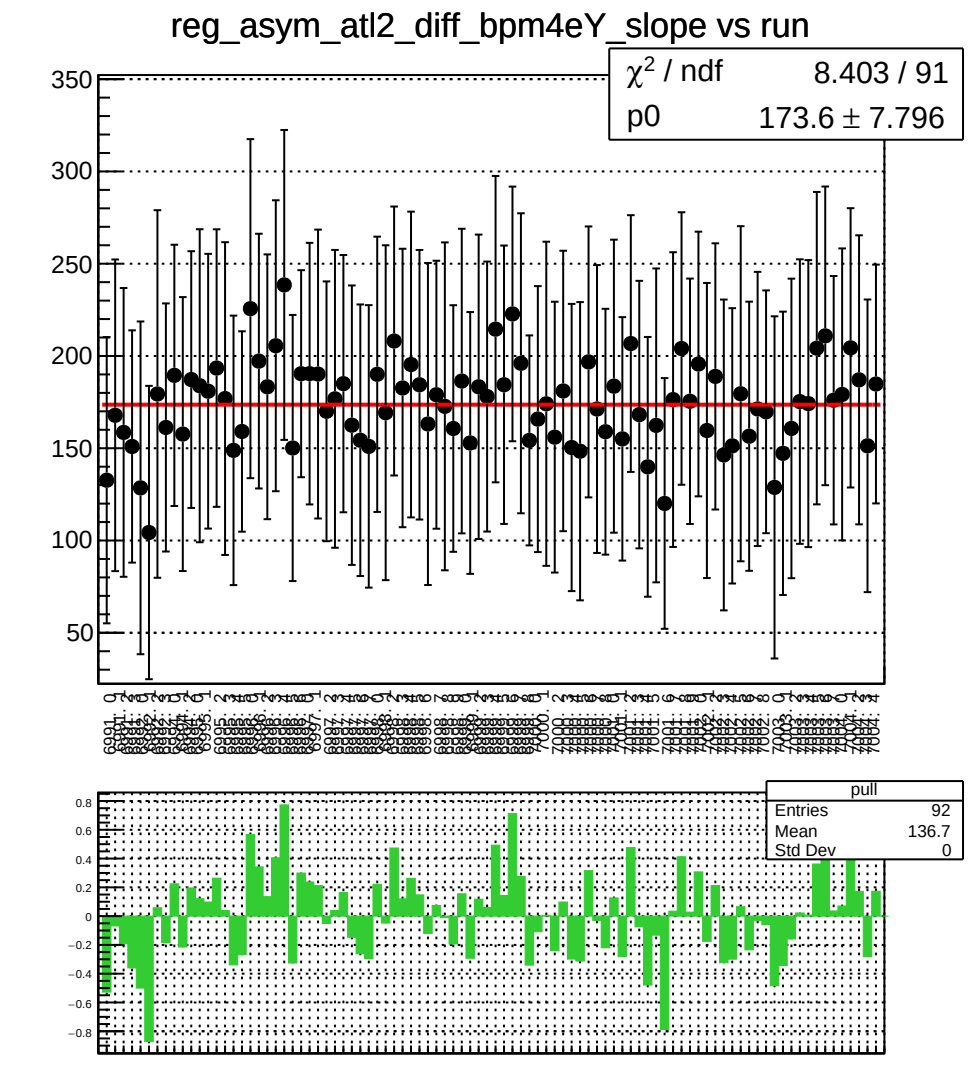

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 9.784 / 91
p0 −582.2 ± 10.88
pull
Entries 92
Mean 470.3
Std Dev 0

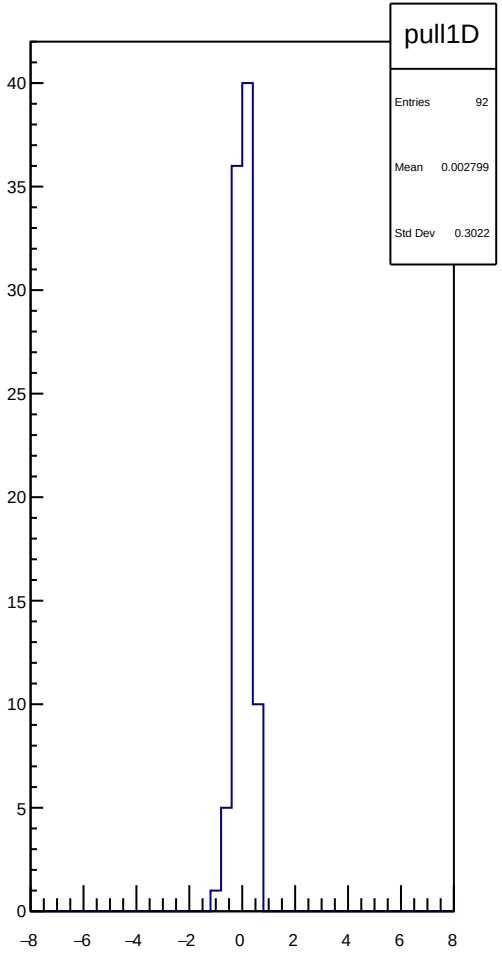

pull1D
Entries 92
Mean −0.0009832
Std Dev 0.3261

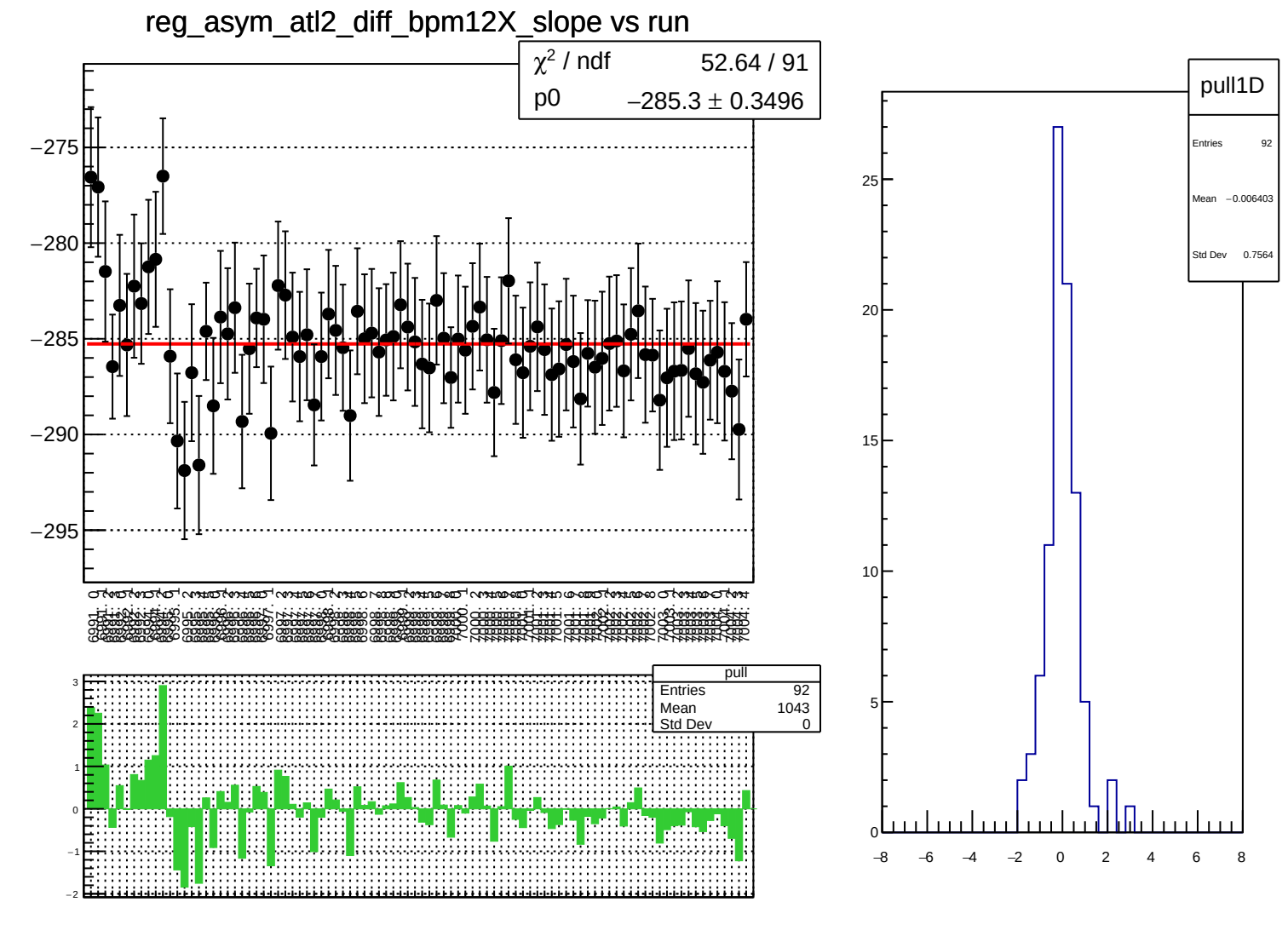

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 8.24 / 91
p0 −21.3 ± 7.414
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 110.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

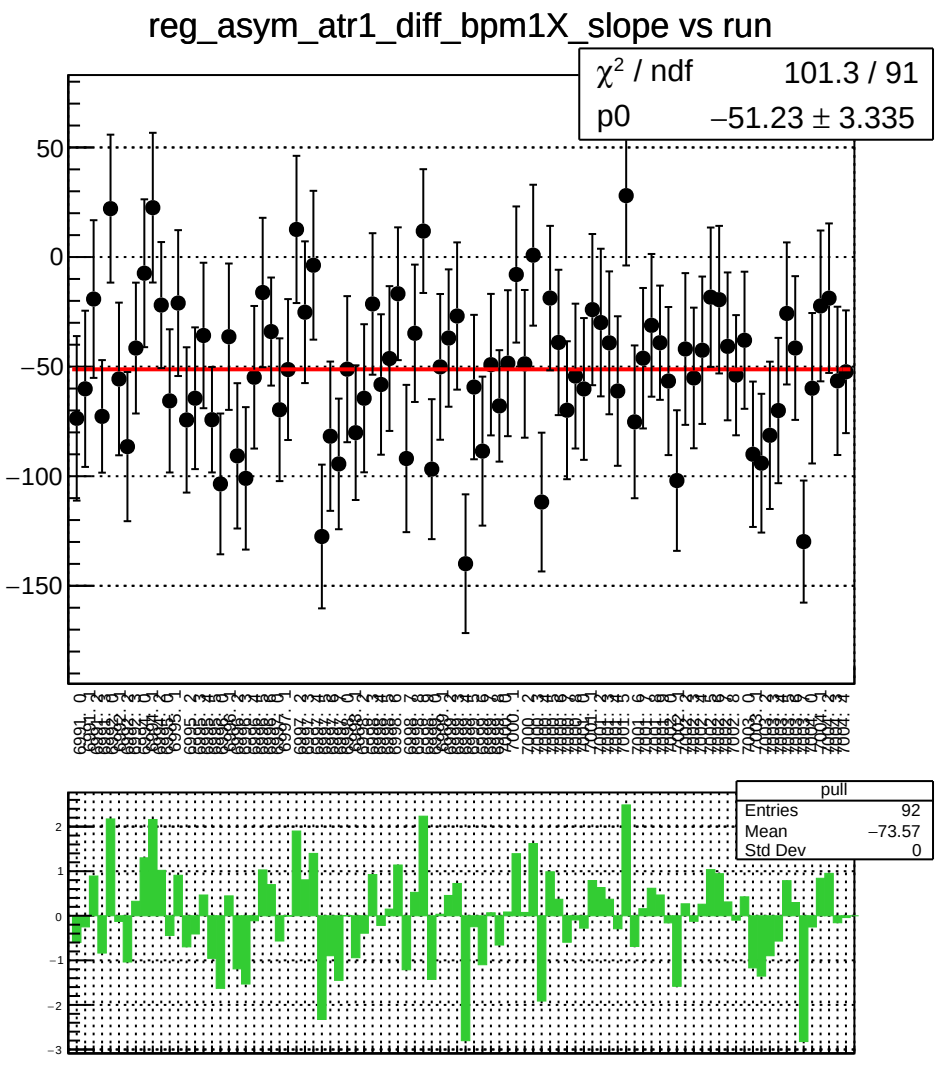

pull1D
Entries 92
Mean −0.005751
Std Dev 0.2992
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

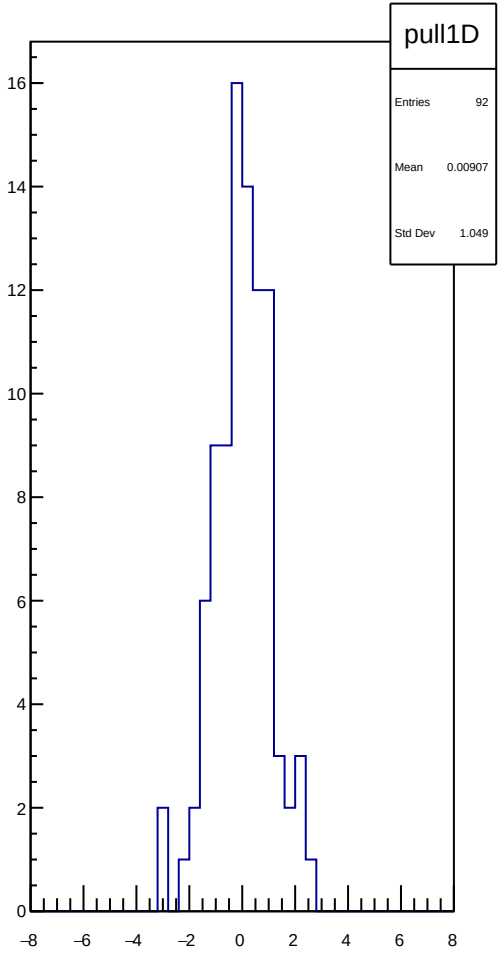

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 10.67 / 91
p0 480.5 ± 10.03
650
600
550
500
450
400
350
300
pull
Entries 92
Mean 482
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean 0.002386
Std Dev 0.3406
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

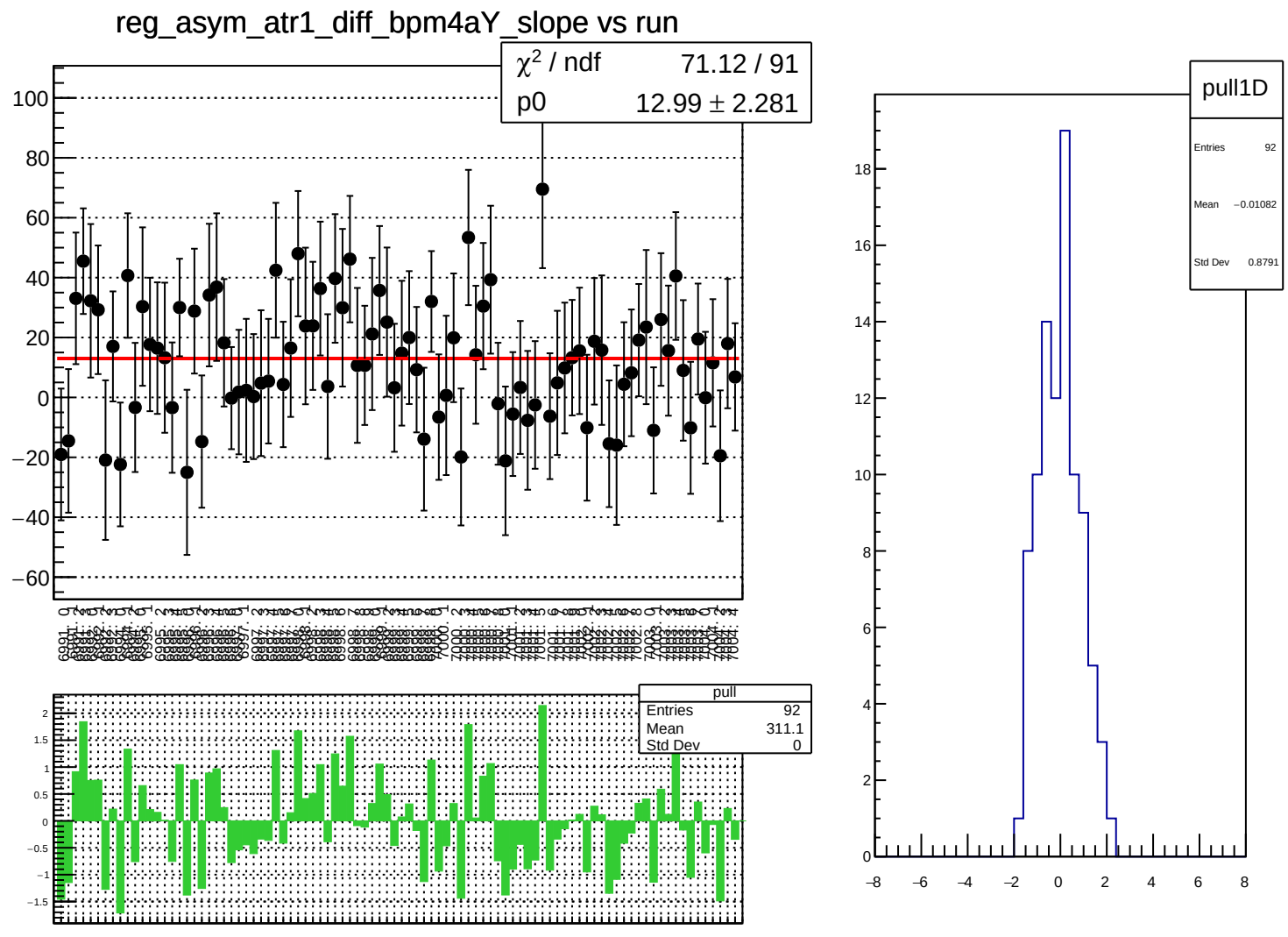

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 8.403 / 91
p0 173.6 ± 7.796
pull
Entries 92
Mean 136.7
Std Dev 0

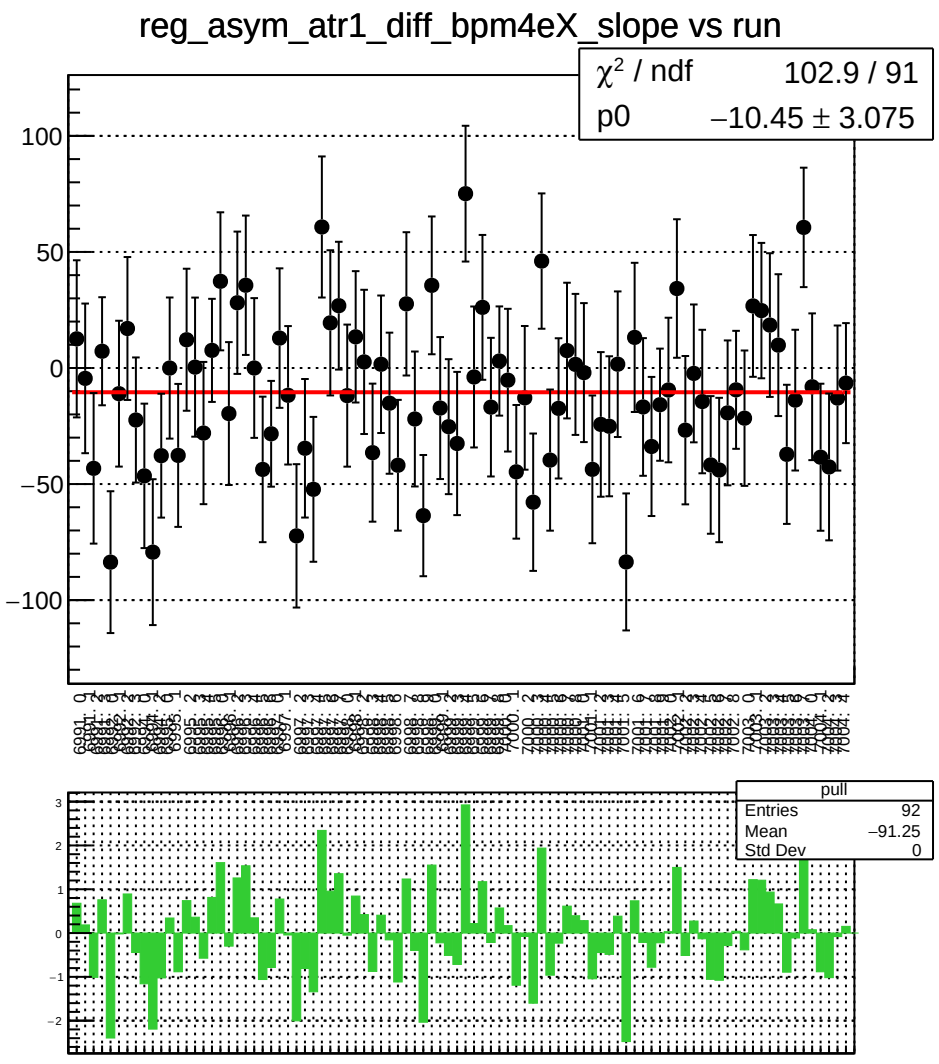

pull1D
Entries 92
Mean 0.002799
Std Dev 0.3022

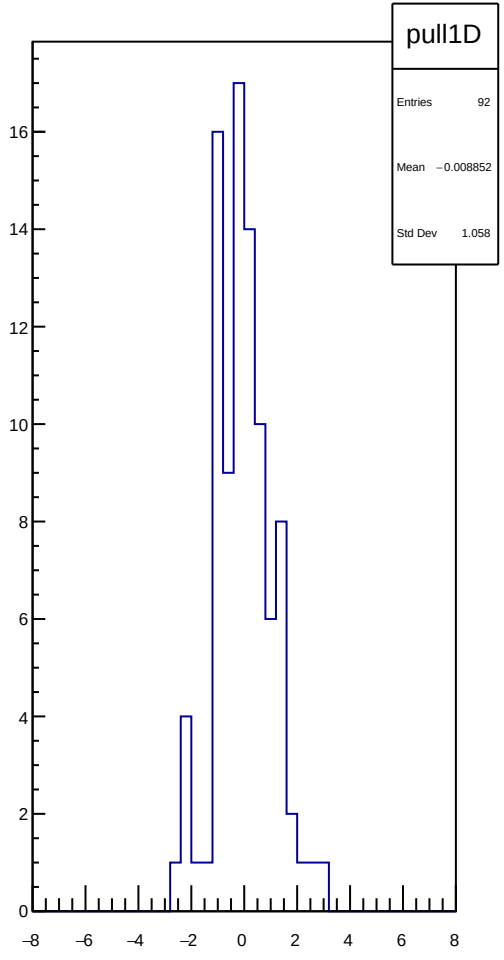

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 52.64 / 91
p0 −285.3 ± 0.3496
−275
−280
−285
−290
−295
pull
Entries 92
Mean 1043
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006403
Std Dev 0.7564
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

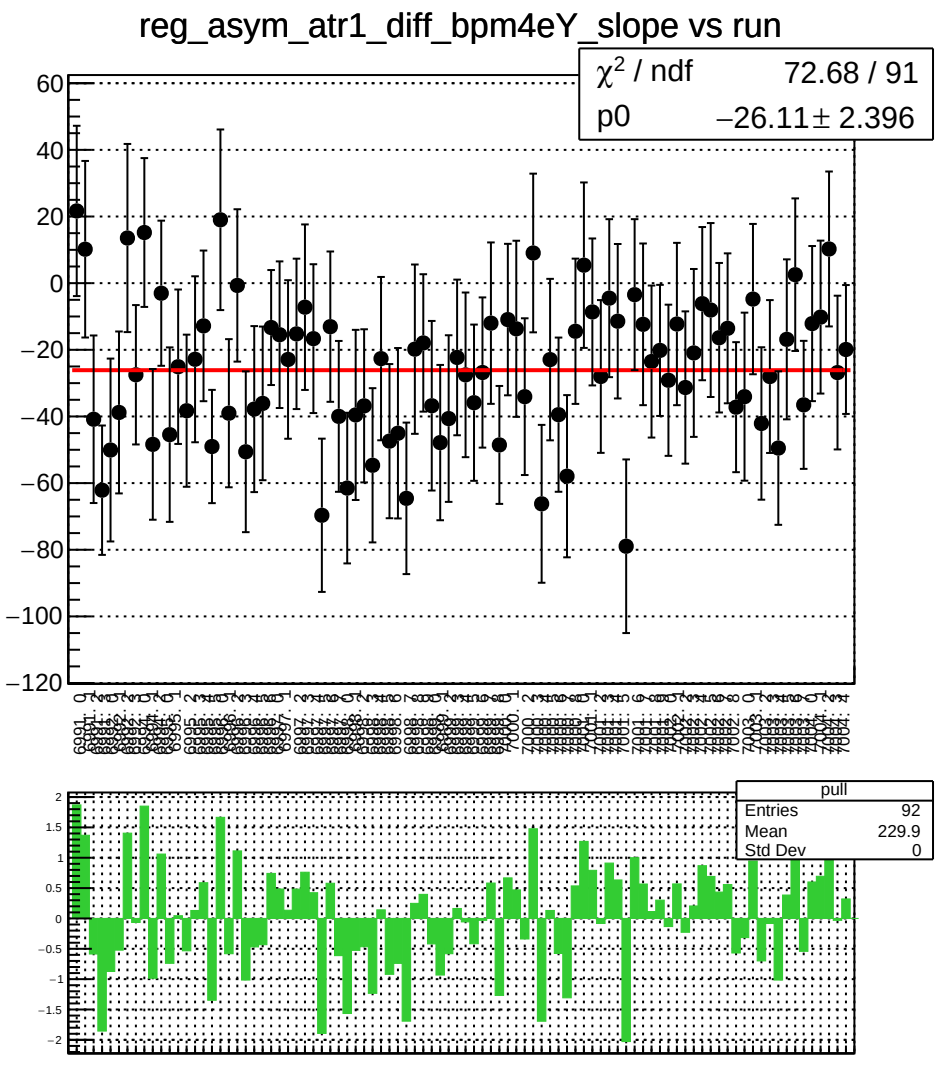

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 101.3 / 91
p0 −51.23 ± 3.335
pull
Entries 92
Mean −73.57
Std Dev 0

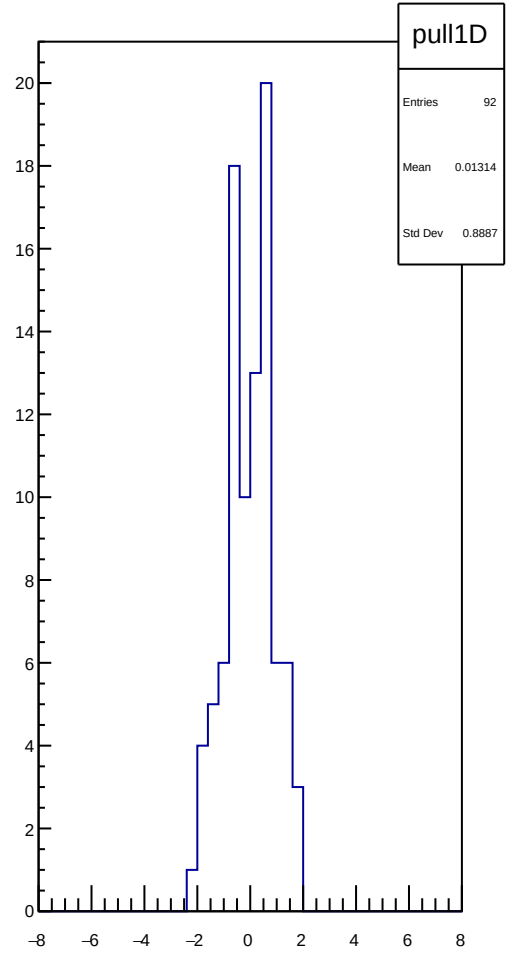

pull1D
Entries 92
Mean 0.00907
Std Dev 1.049

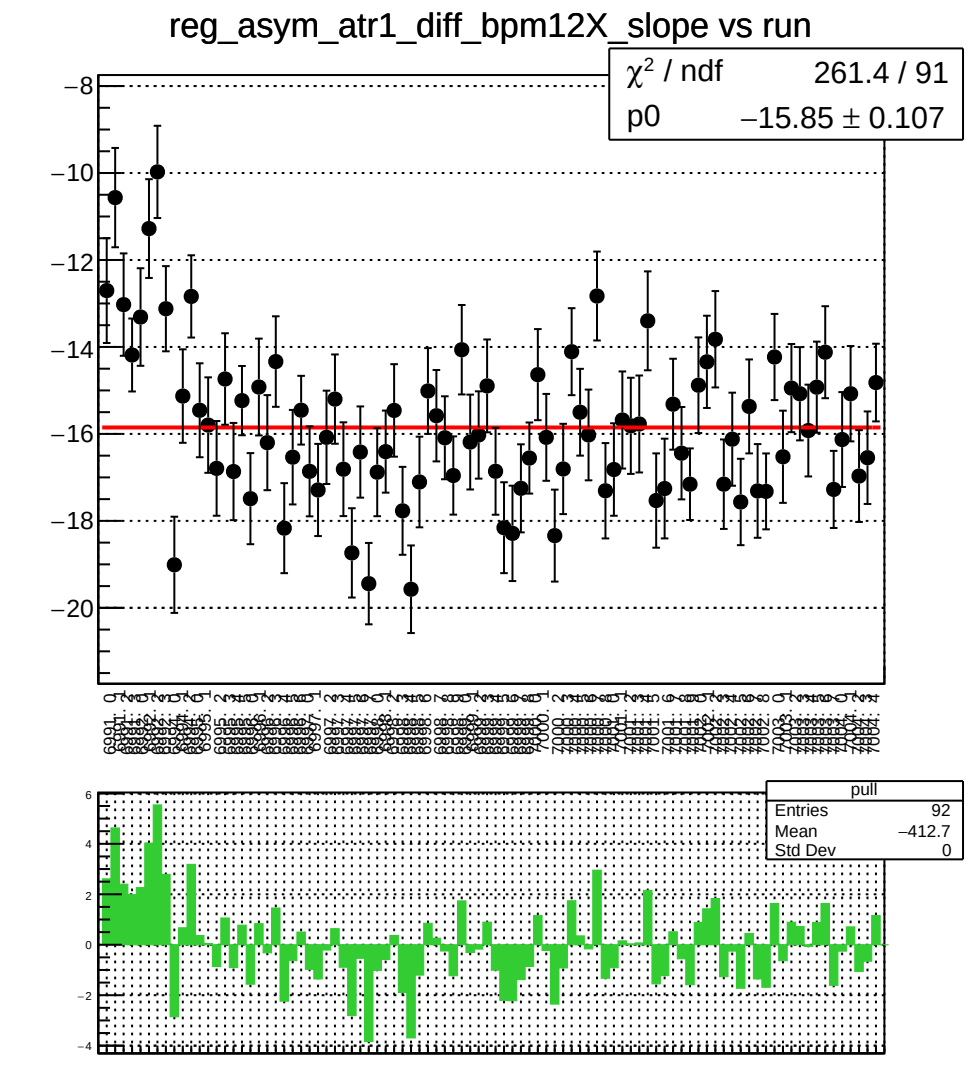

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 71.12 / 91
p0 12.99 ± 2.281
pull
Entries 92
Mean 311.1
Std Dev 0
pull1D
Entries 92
Mean −0.01082
Std Dev 0.8791

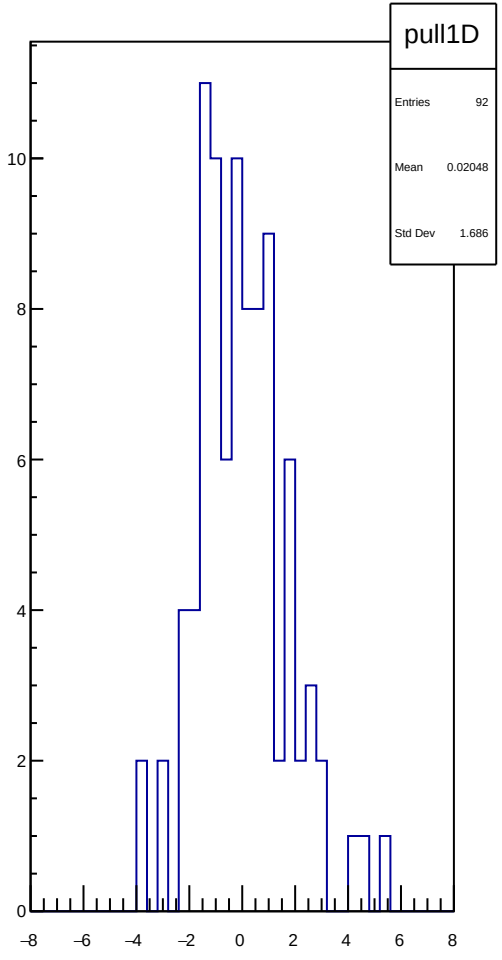

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 102.9 / 91
p0 −10.45 ± 3.075
100
50
0
−50
−100
pull
Entries 92
Mean −91.25
Std Dev 0
3
2
1
0
−1
−2

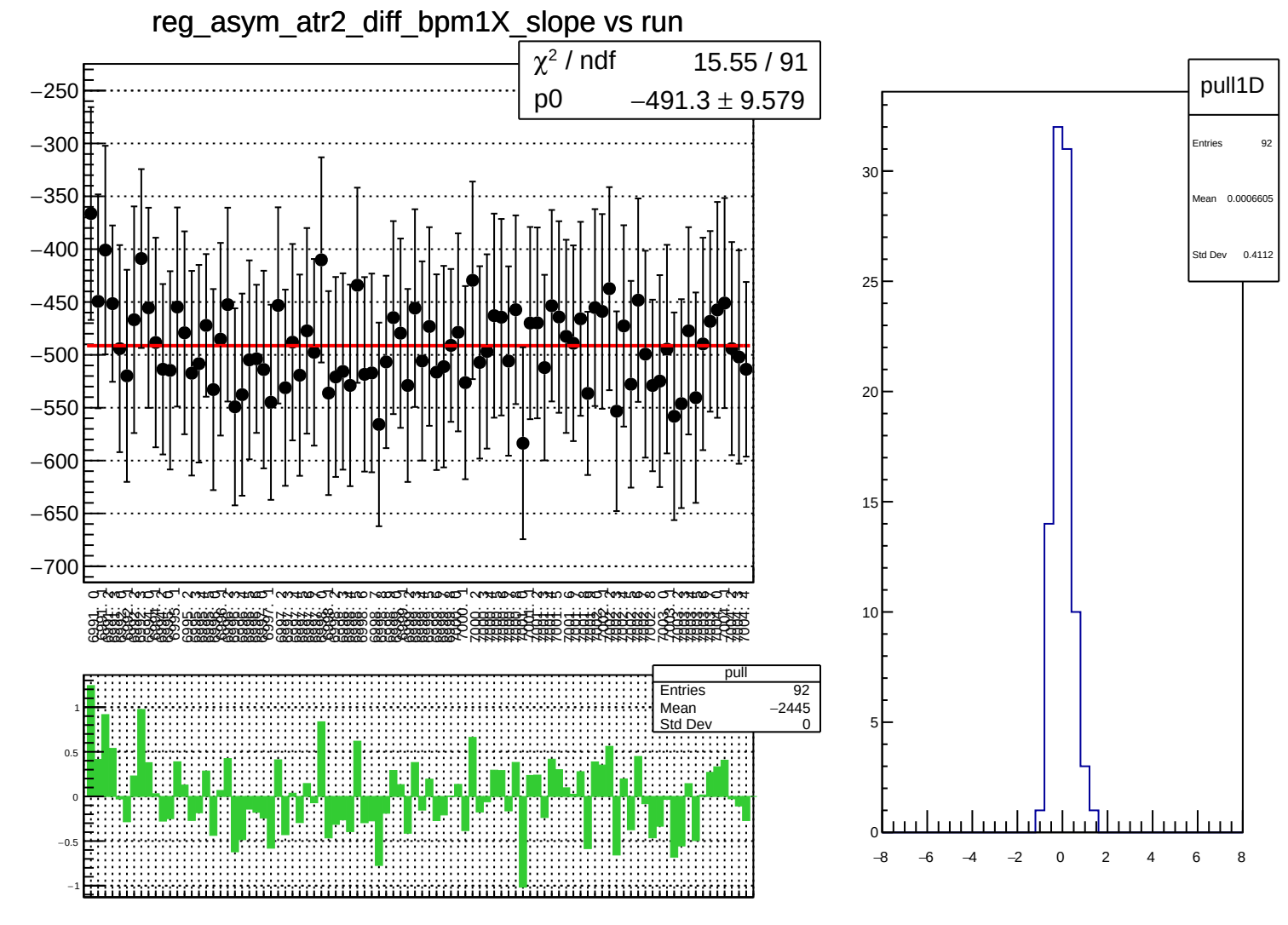

pull1D
Entries 92
Mean −0.008852
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

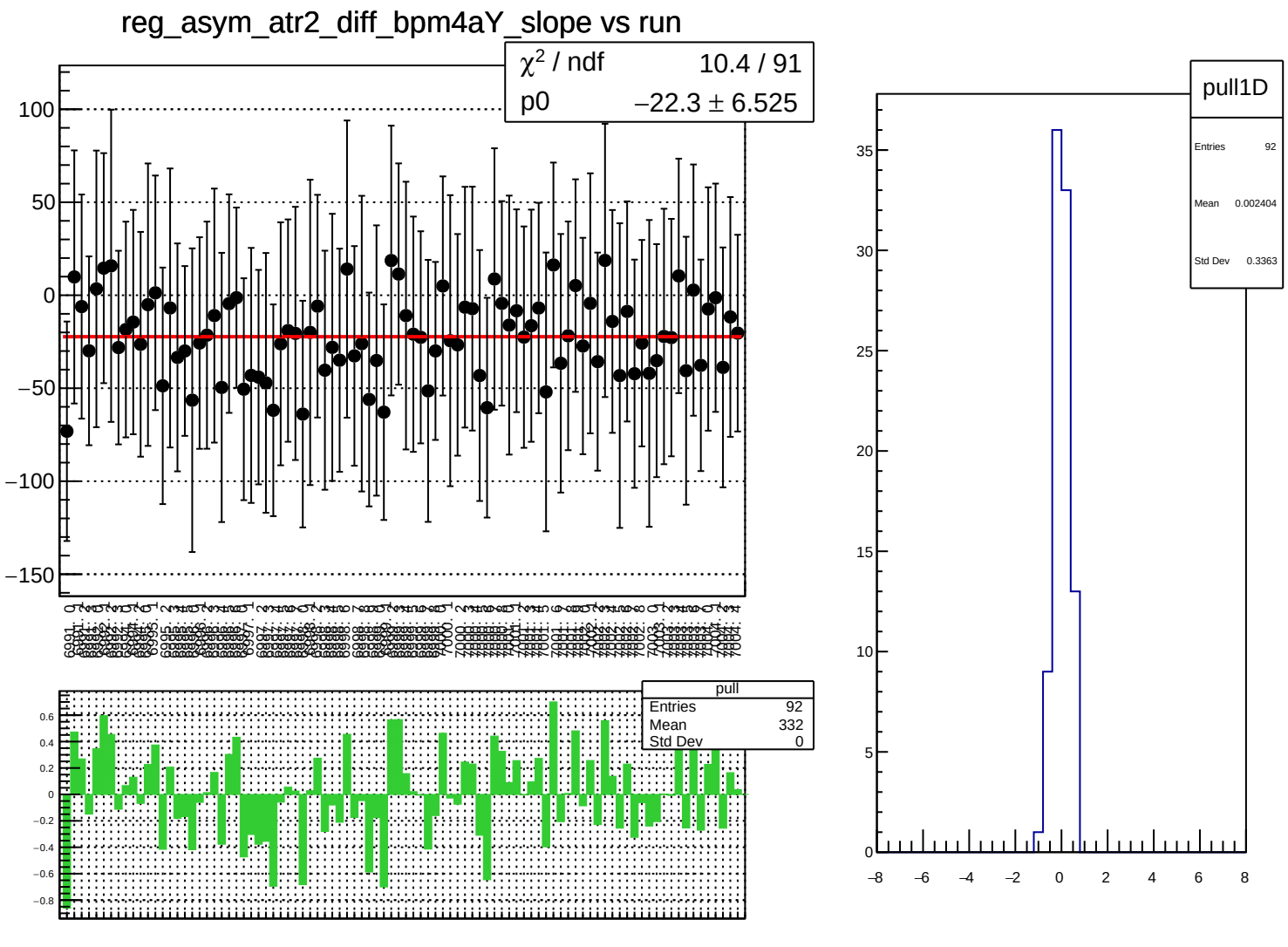

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 72.68 / 91
p0 −26.11 ± 2.396
pull
Entries 92
Mean 229.9
Std Dev 0

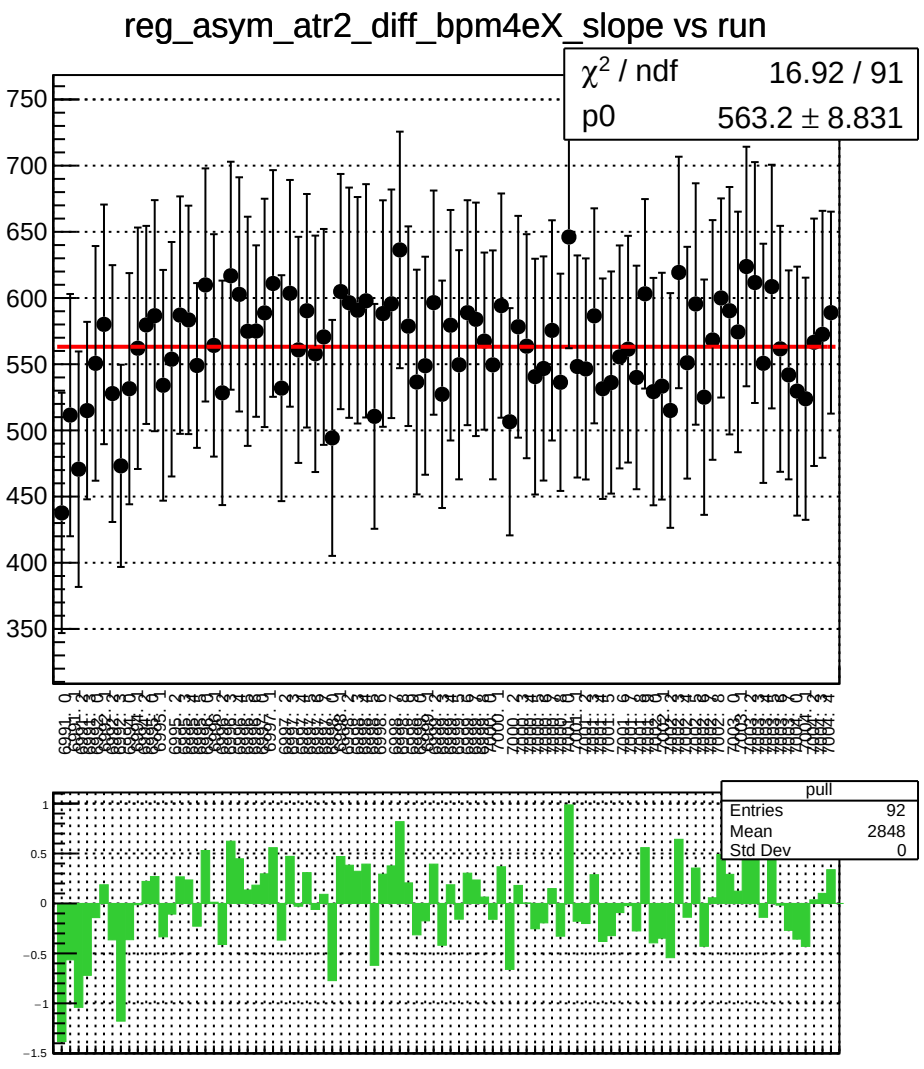

pull1D
Entries 92
Mean 0.01314
Std Dev 0.8887

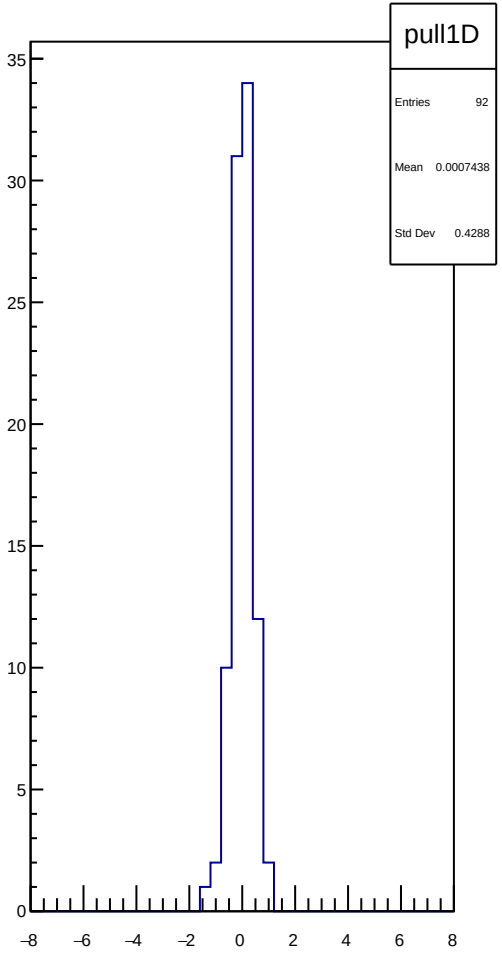

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 261.4 / 91
p0 −15.85 ± 0.107
pull
Entries 92
Mean −412.7
Std Dev 0

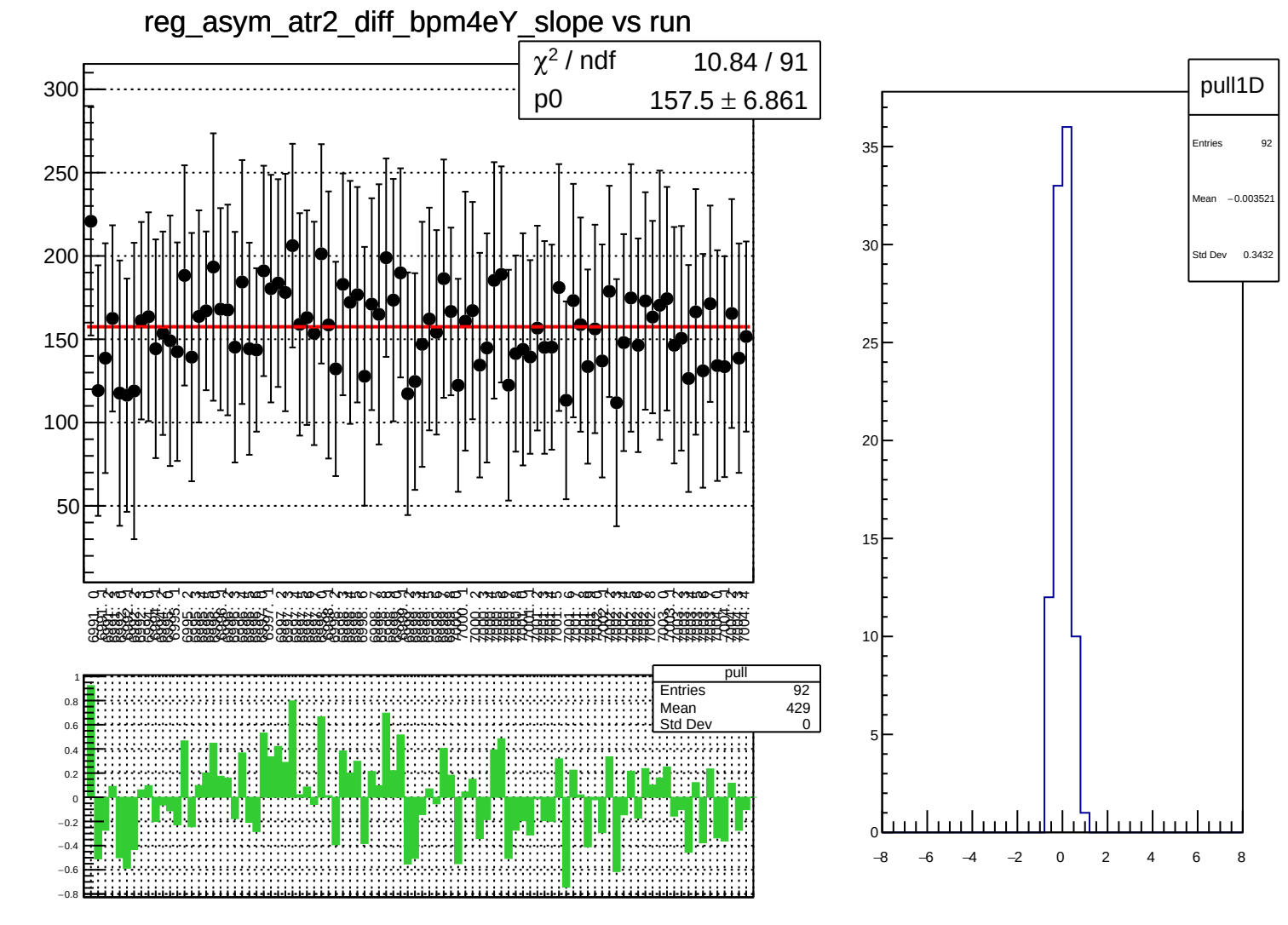

pull1D
Entries 92
Mean 0.02048
Std Dev 1.686

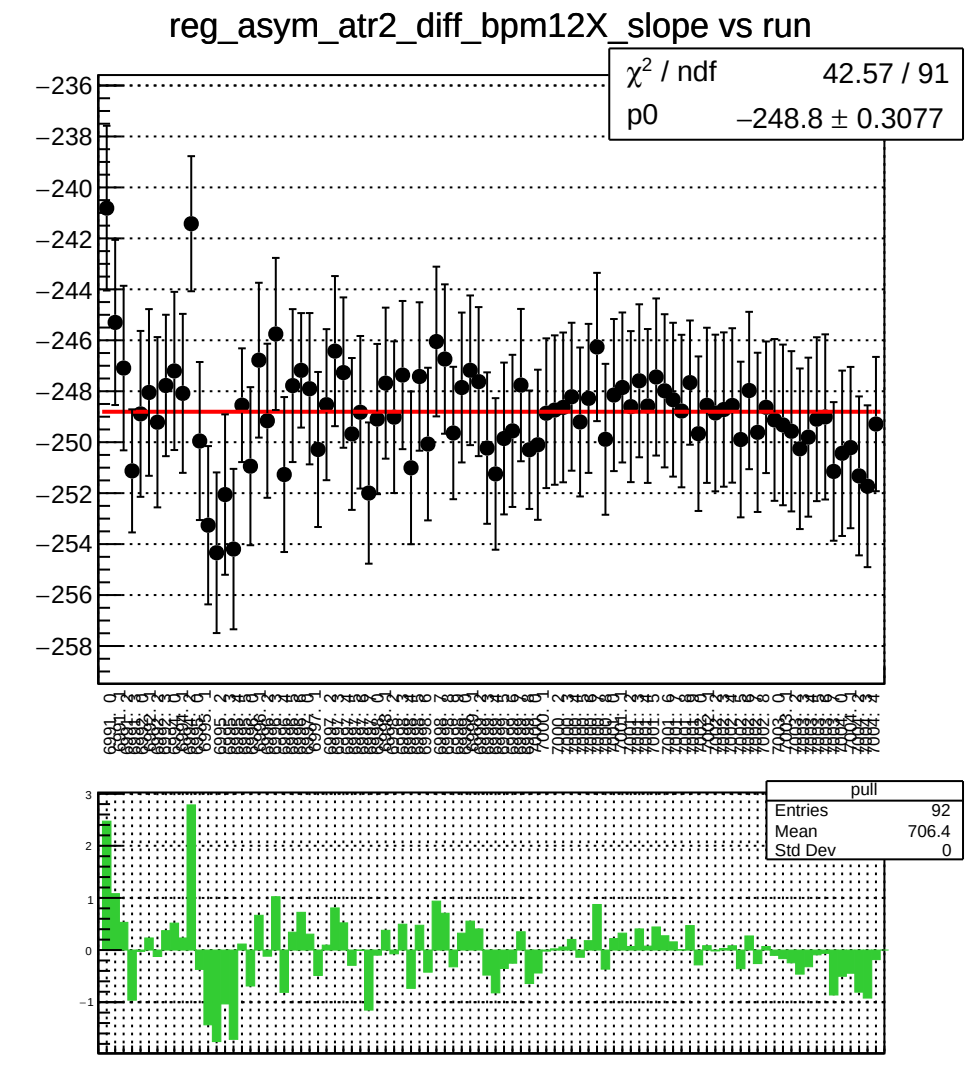

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 15.55 / 91
p0 −491.3 ± 9.579
pull
Entries 92
Mean −2445
Std Dev 0
pull1D
Entries 92
Mean 0.0006605
Std Dev 0.4112

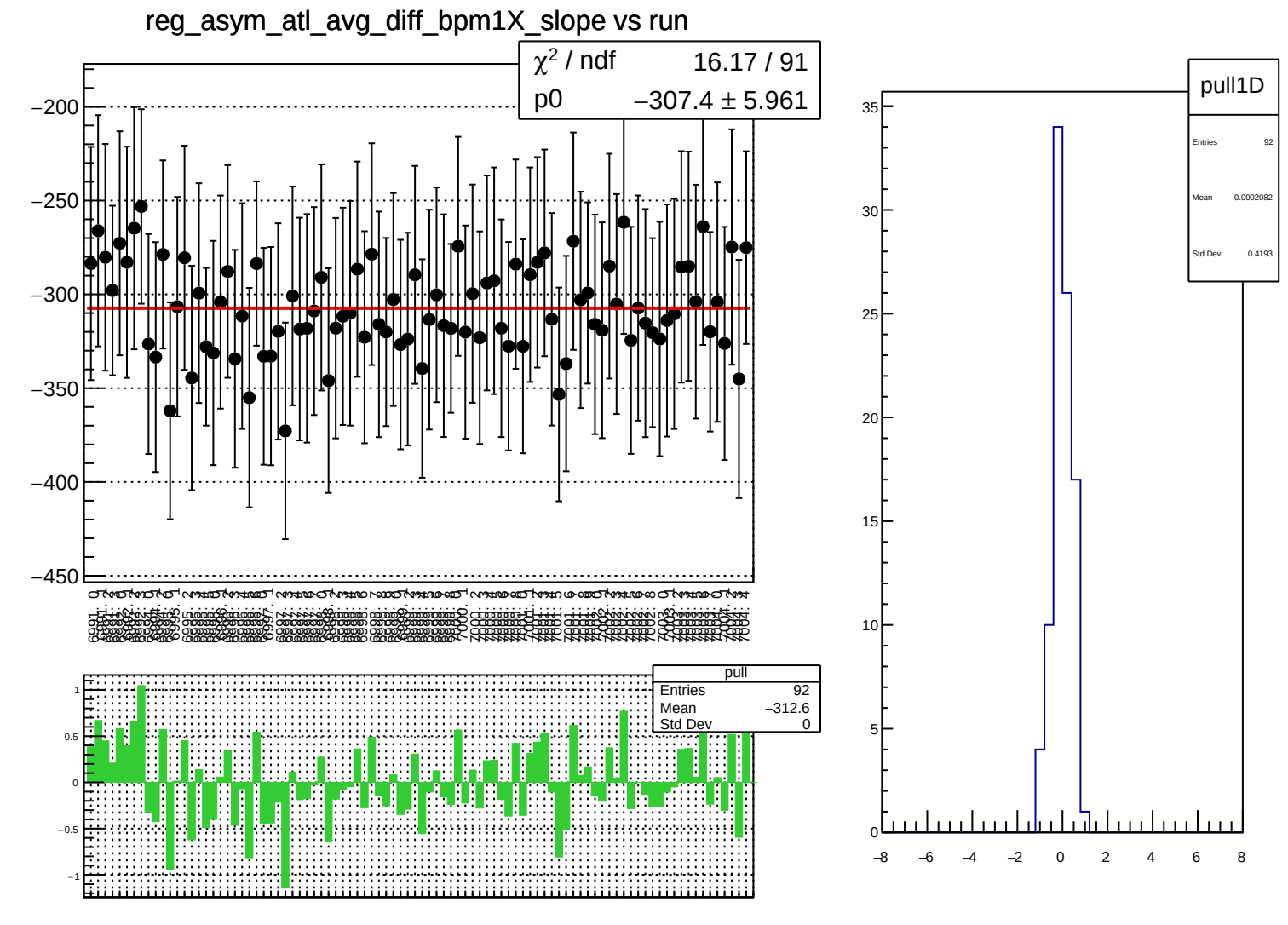

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 10.4 / 91
p0 −22.3 ± 6.525
100
50
0
−50
−100
−150
pull
Entries 92
Mean 332
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean 0.002404
Std Dev 0.3363
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

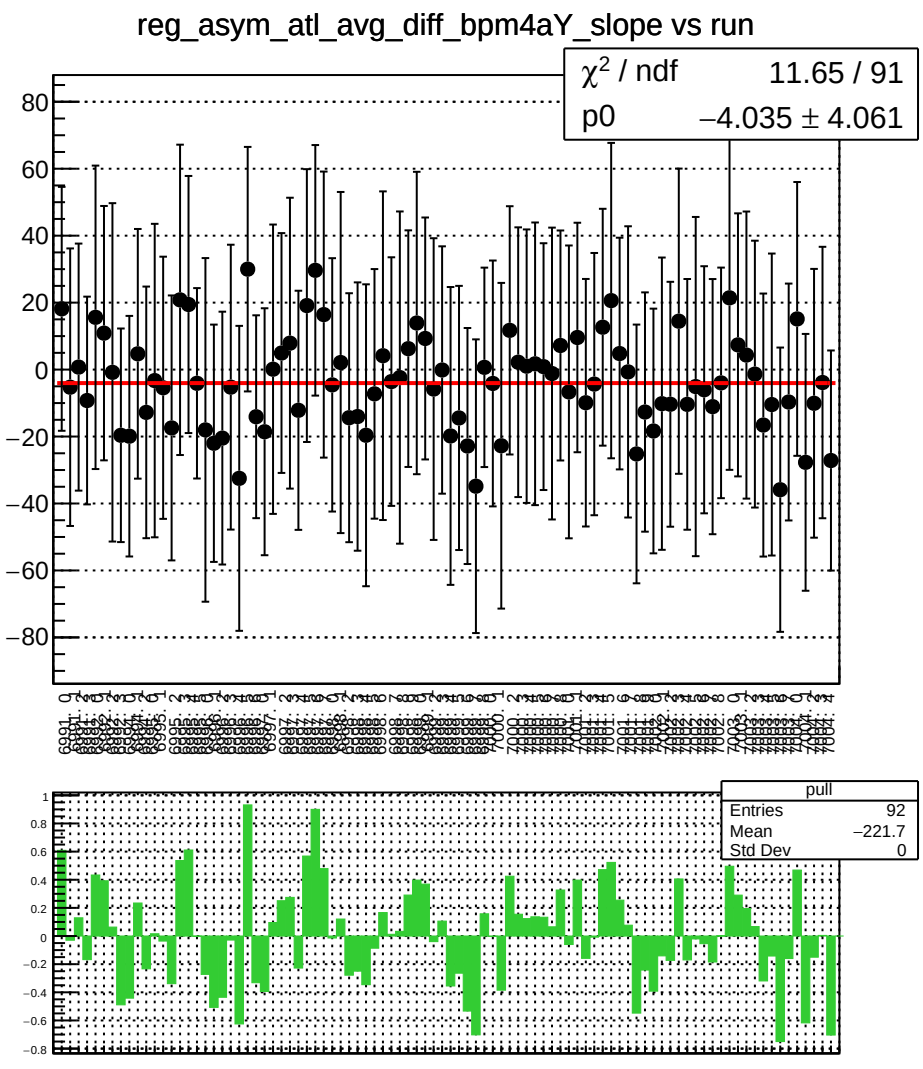

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 16.92 / 91
p0 563.2 ± 8.831
750
700
650
600
550
500
450
400
350
pull
Entries 92
Mean 2848
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

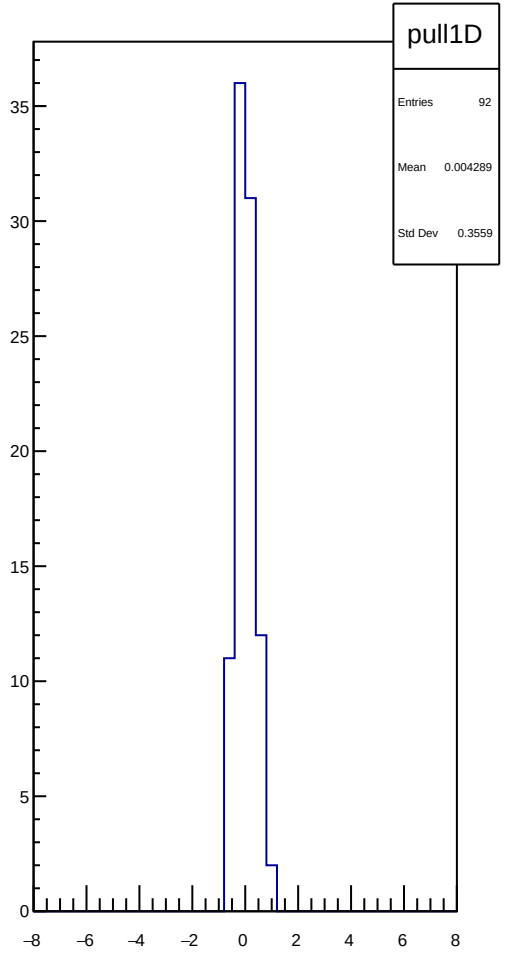

pull1D
Entries 92
Mean 0.0007438
Std Dev 0.4288
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

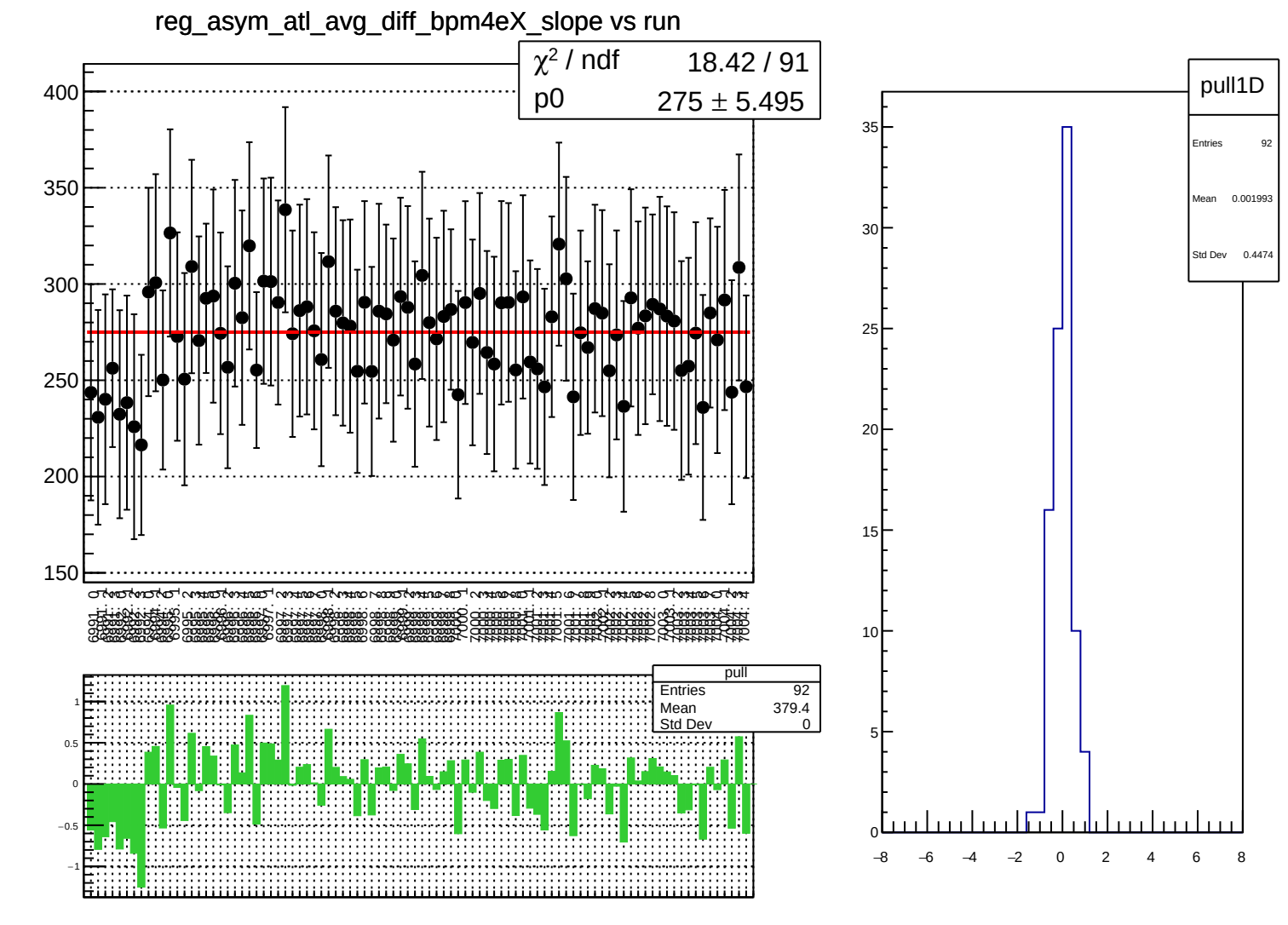

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 10.84 / 91
p0 157.5 ± 6.861
300
250
200
150
100
50
pull
Entries 92
Mean 429
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.003521
Std Dev 0.3432
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

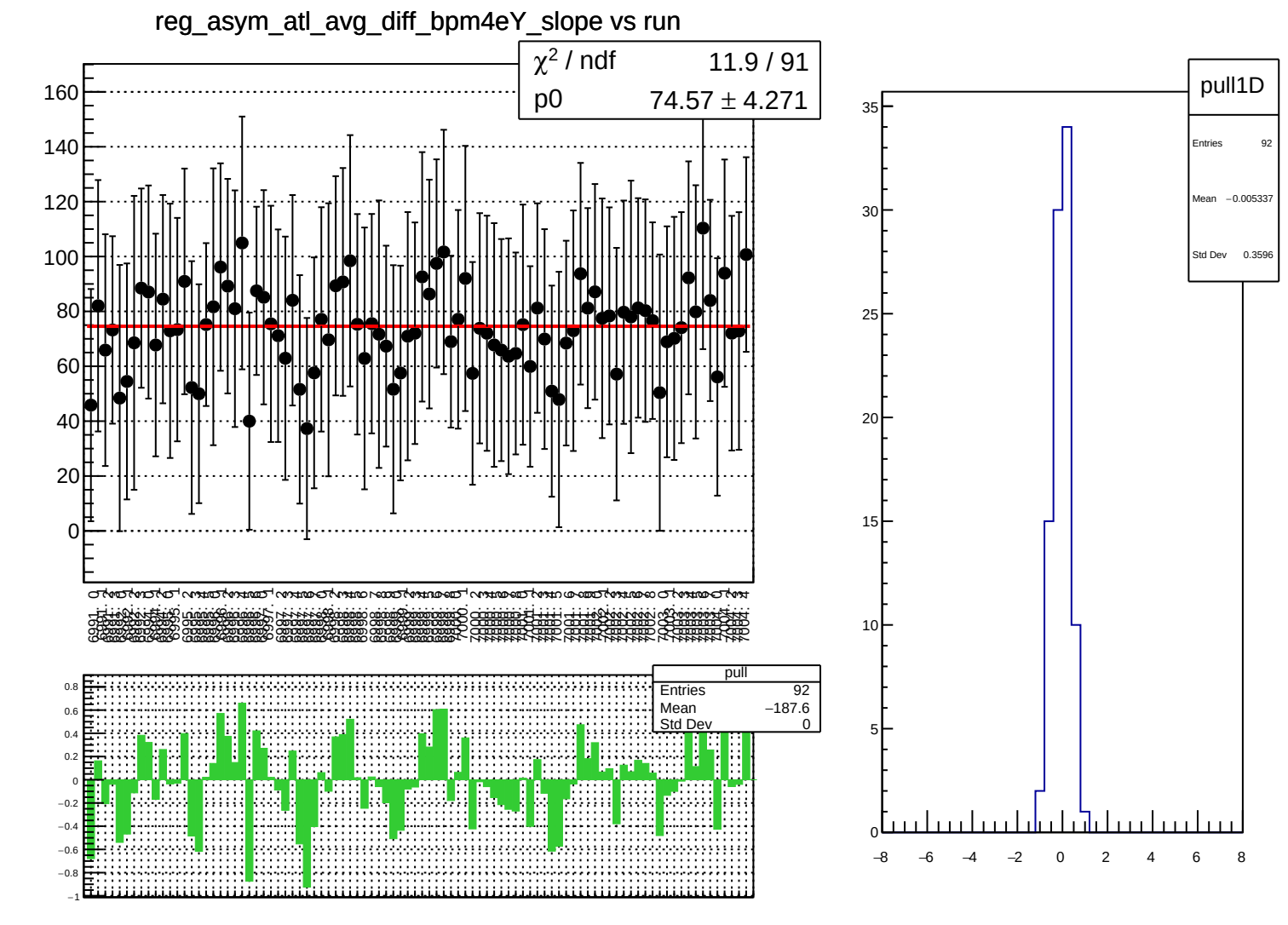

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 42.57 / 91
p0 −248.8 ± 0.3077
pull
Entries 92
Mean 706.4
Std Dev 0
pull1D
Entries 92
Mean −0.004936
Std Dev 0.6802

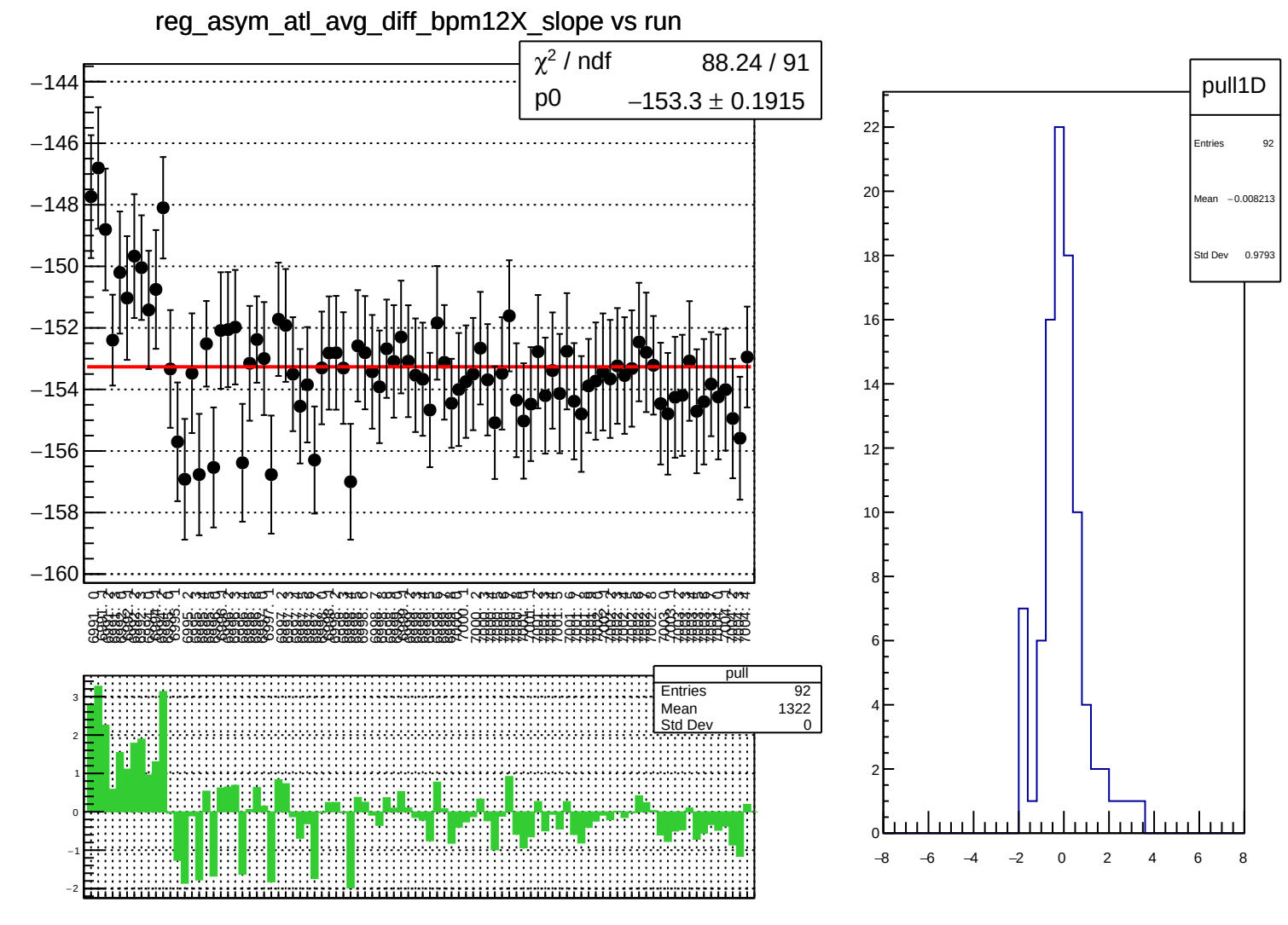

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 16.17 / 91
p0 −307.4 ± 5.961
pull
Entries 92
Mean −312.6
Std Dev 0
pull1D
Entries 92
Mean −0.0002082
Std Dev 0.4193

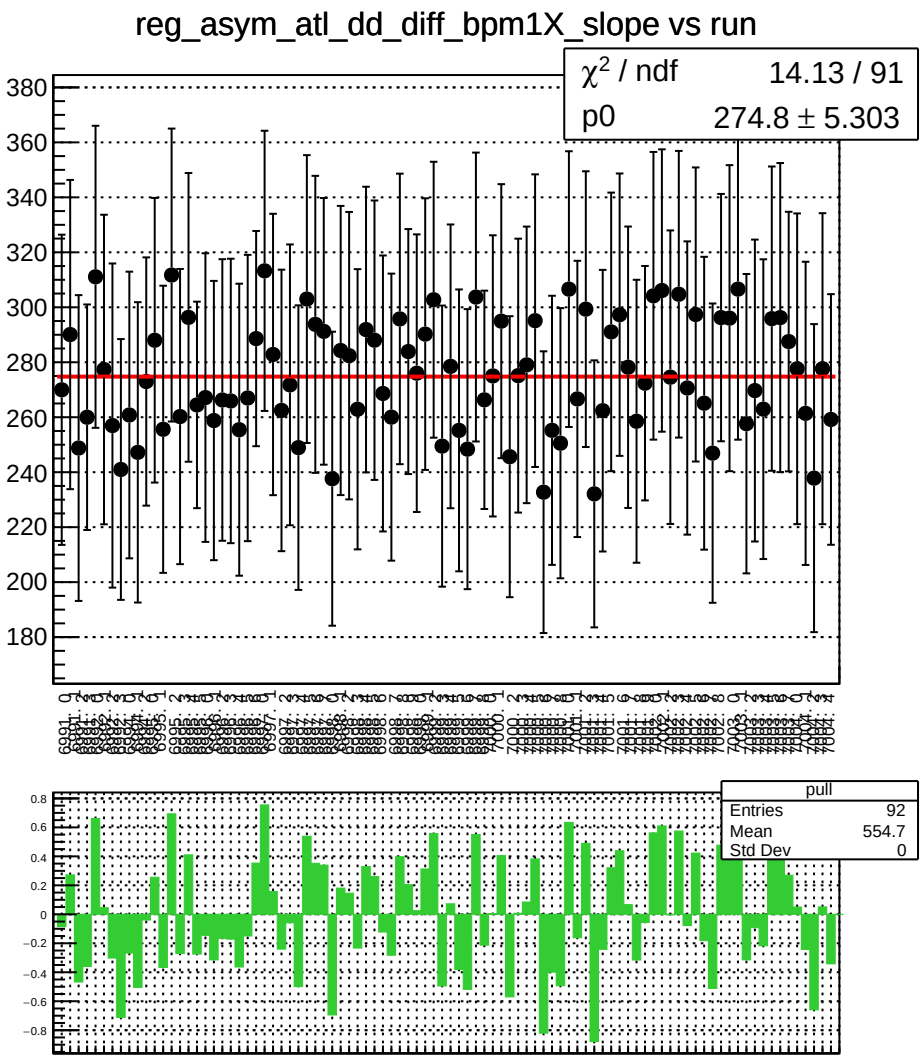

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.65 / 91
p0 −4.035 ± 4.061
pull
Entries 92
Mean −221.7
Std Dev 0

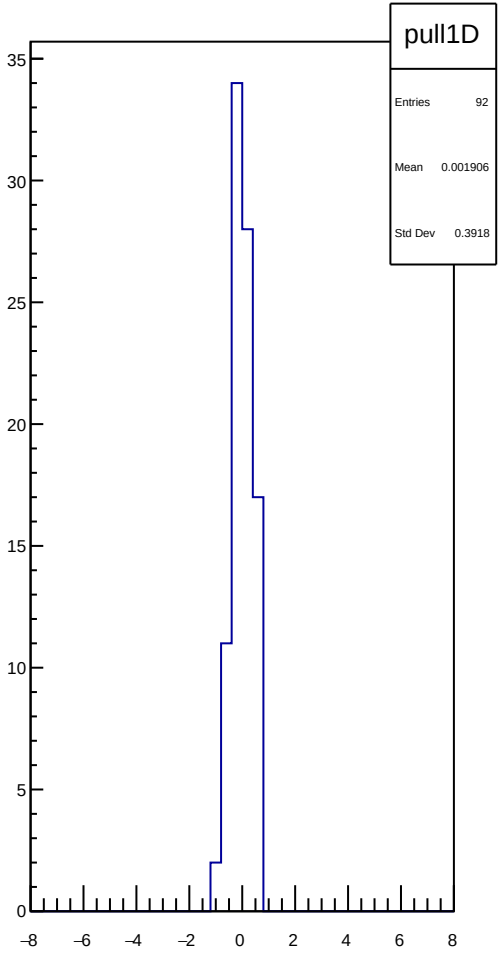

pull1D
Entries 92
Mean 0.004289
Std Dev 0.3559

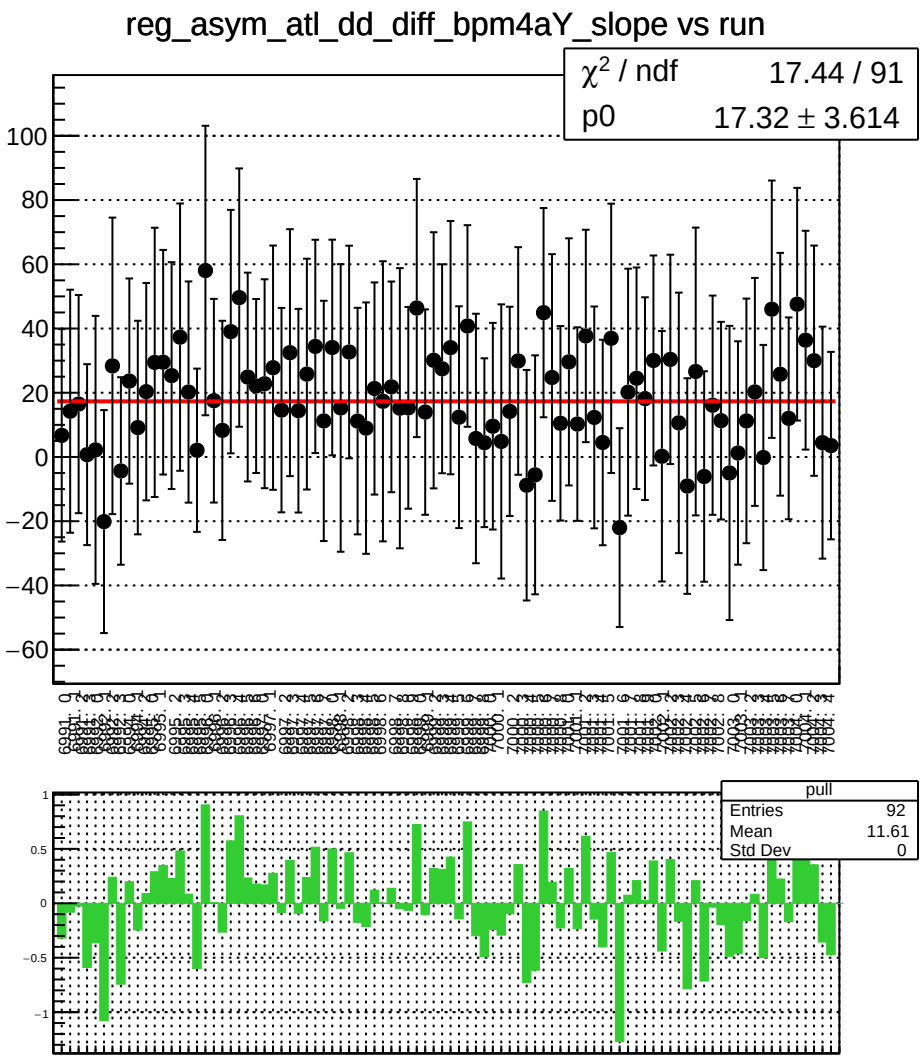

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.42 / 91
p0 275 ± 5.495
pull
Entries 92
Mean 379.4
Std Dev 0
pull1D
Entries 92
Mean 0.001993
Std Dev 0.4474

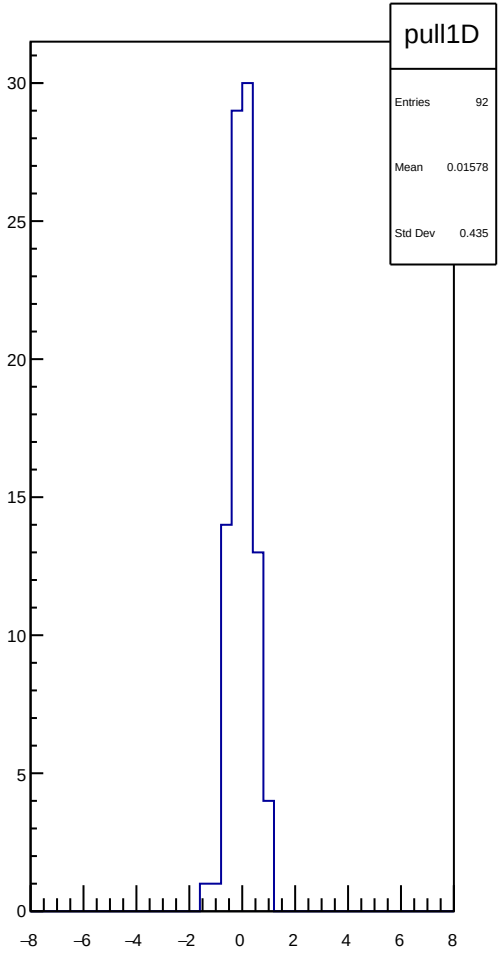

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.9 / 91
p0 74.57 ± 4.271
pull
Entries 92
Mean −187.6
Std Dev 0
pull1D
Entries 92
Mean −0.005337
Std Dev 0.3596

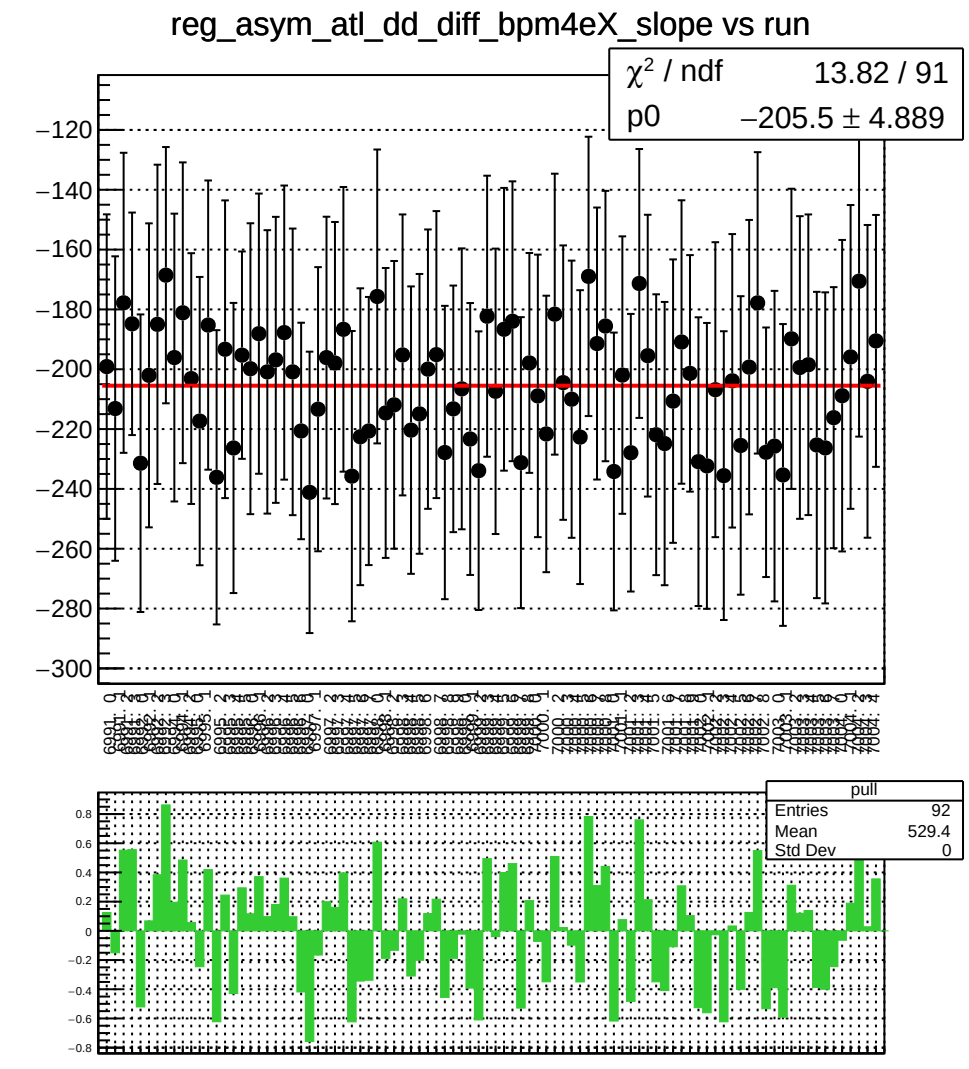

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 88.24 / 91
p0 −153.3 ± 0.1915
pull
Entries 92
Mean 1322
Std Dev 0
pull1D
Entries 92
Mean −0.008213
Std Dev 0.9793

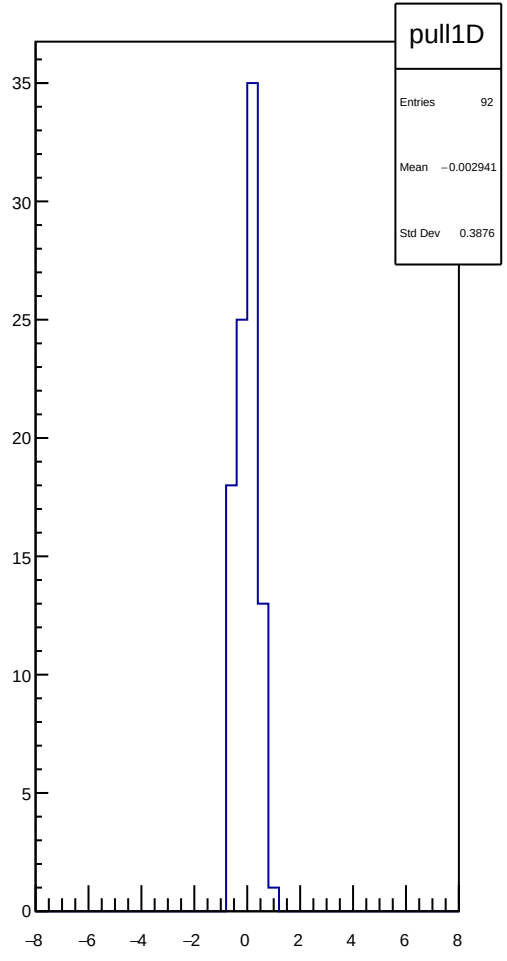

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 14.13 / 91
p0 274.8 ± 5.303
pull
Entries 92
Mean 554.7
Std Dev 0

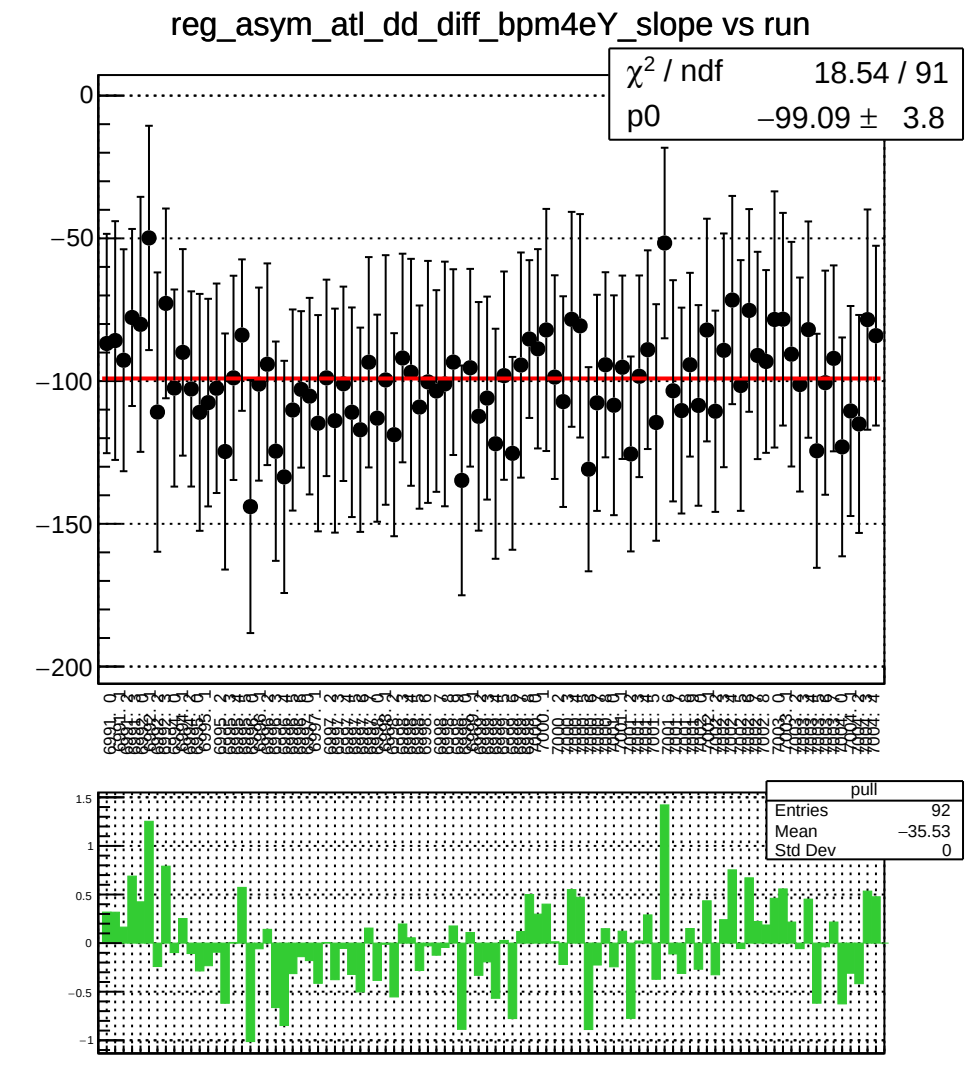

pull1D
Entries 92
Mean 0.001906
Std Dev 0.3918

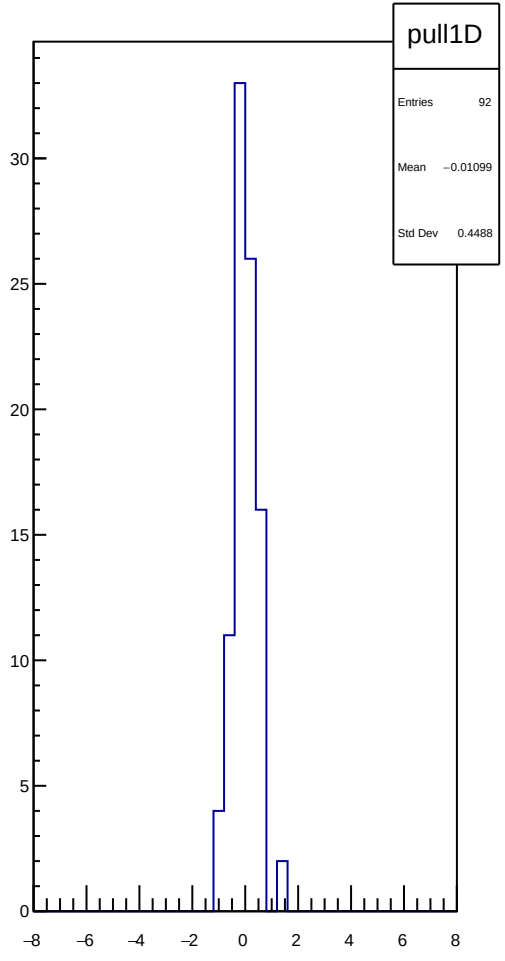

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.44 / 91
p0 17.32 ± 3.614
pull
Entries 92
Mean 11.61
Std Dev 0

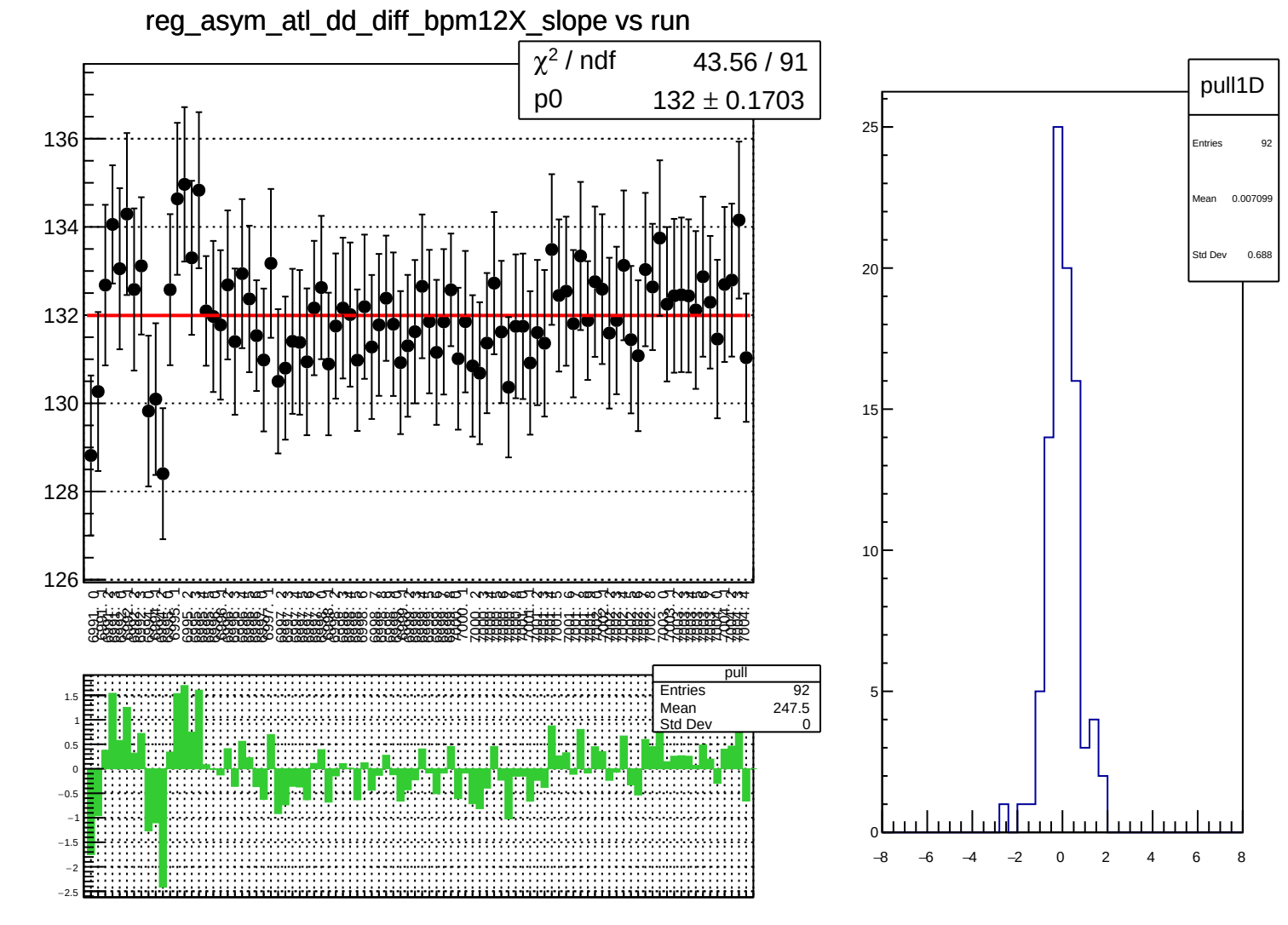

pull1D
Entries 92
Mean 0.01578
Std Dev 0.435

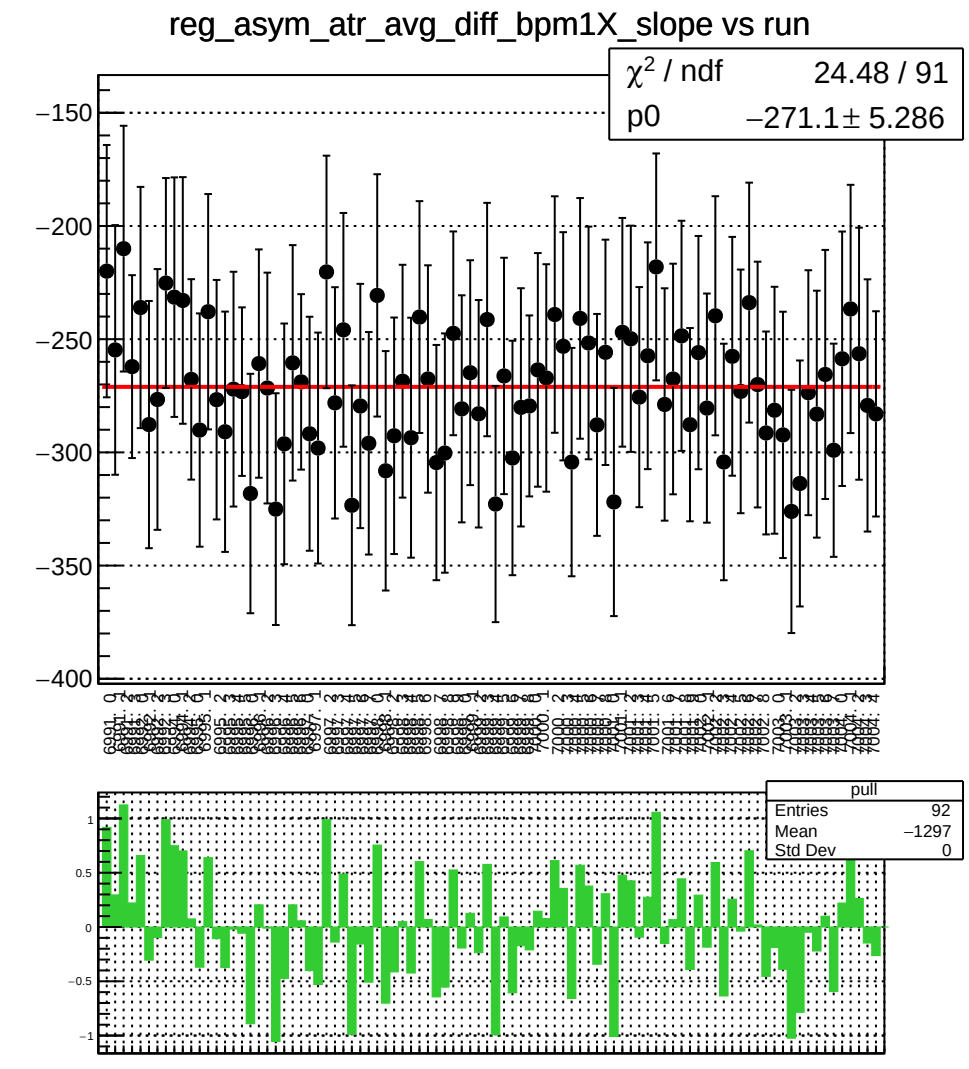

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.82 / 91
p0 −205.5 ± 4.889
pull
Entries 92
Mean 529.4
Std Dev 0

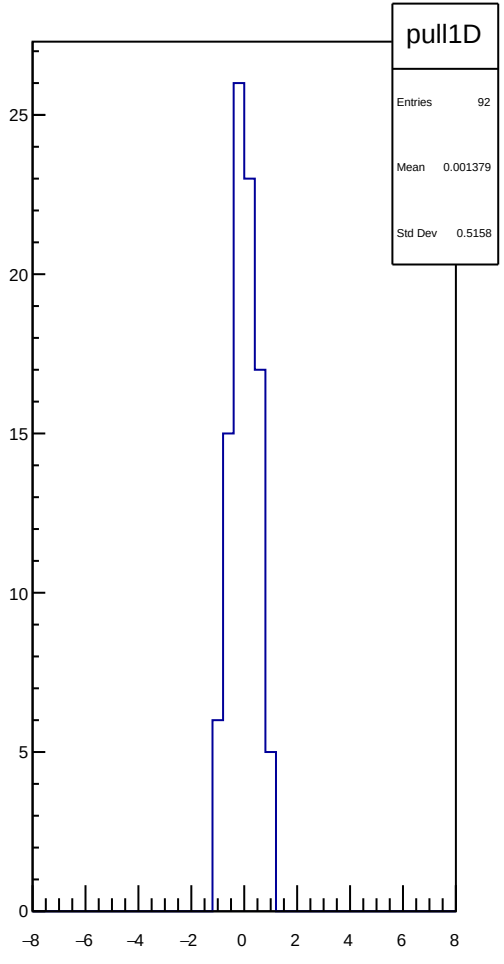

pull1D
Entries 92
Mean −0.002941
Std Dev 0.3876

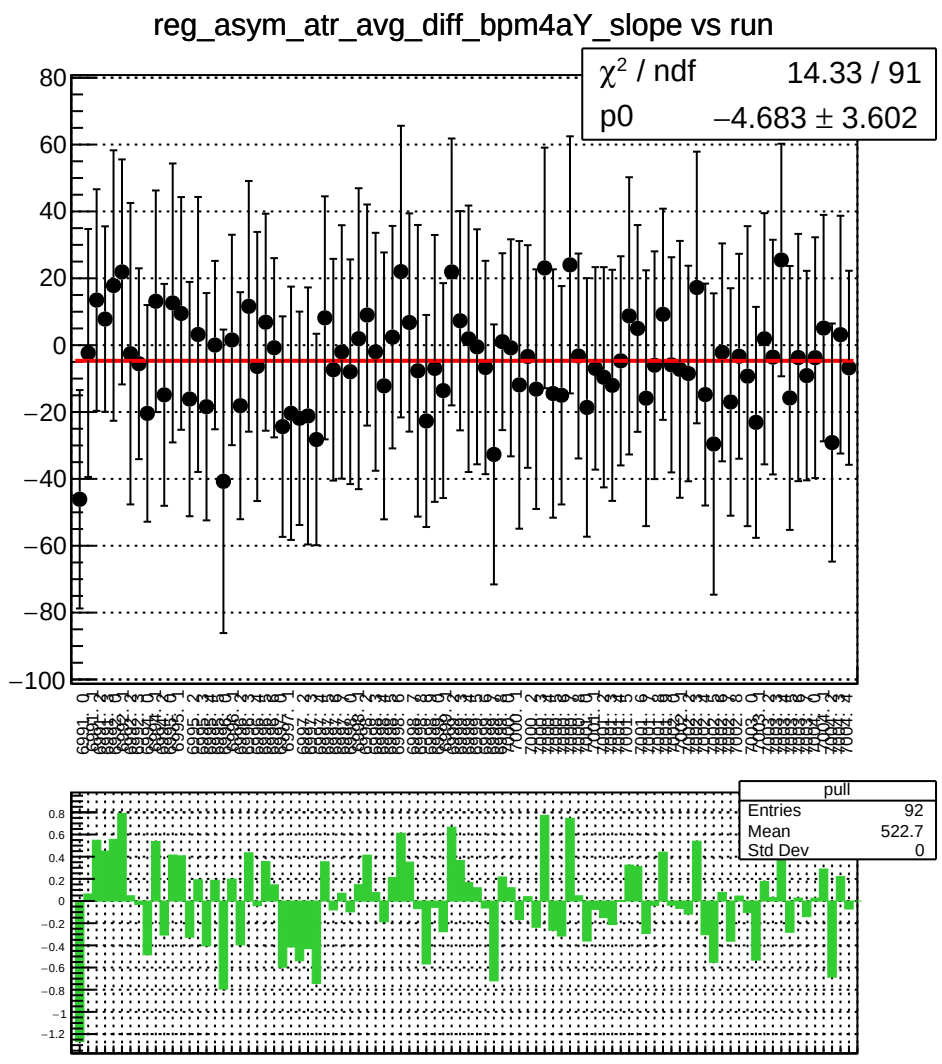

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.54 / 91
p0 −99.09 ± 3.8
0
−50
−100
−150
−200
pull
Entries 92
Mean −35.53
Std Dev 0
1.5
1
0.5
0
−0.5
−1

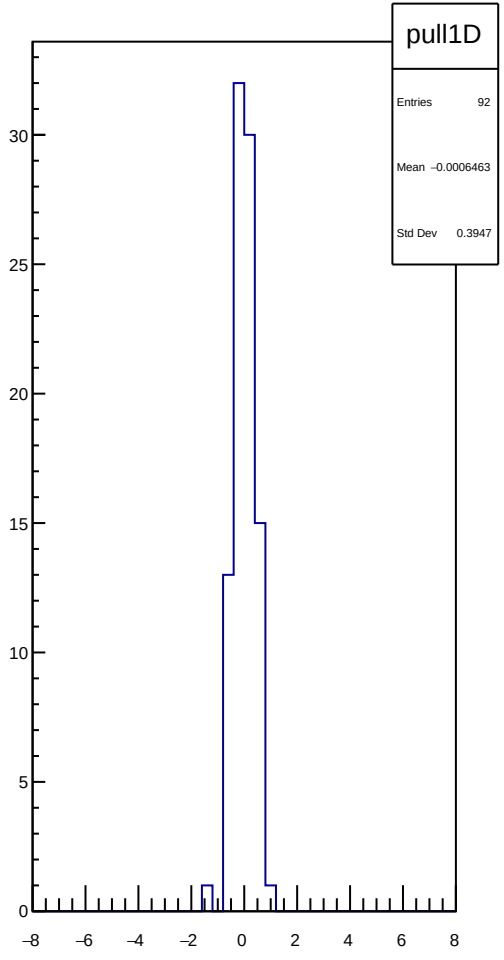

pull1D
Entries 92
Mean −0.01099
Std Dev 0.4488
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

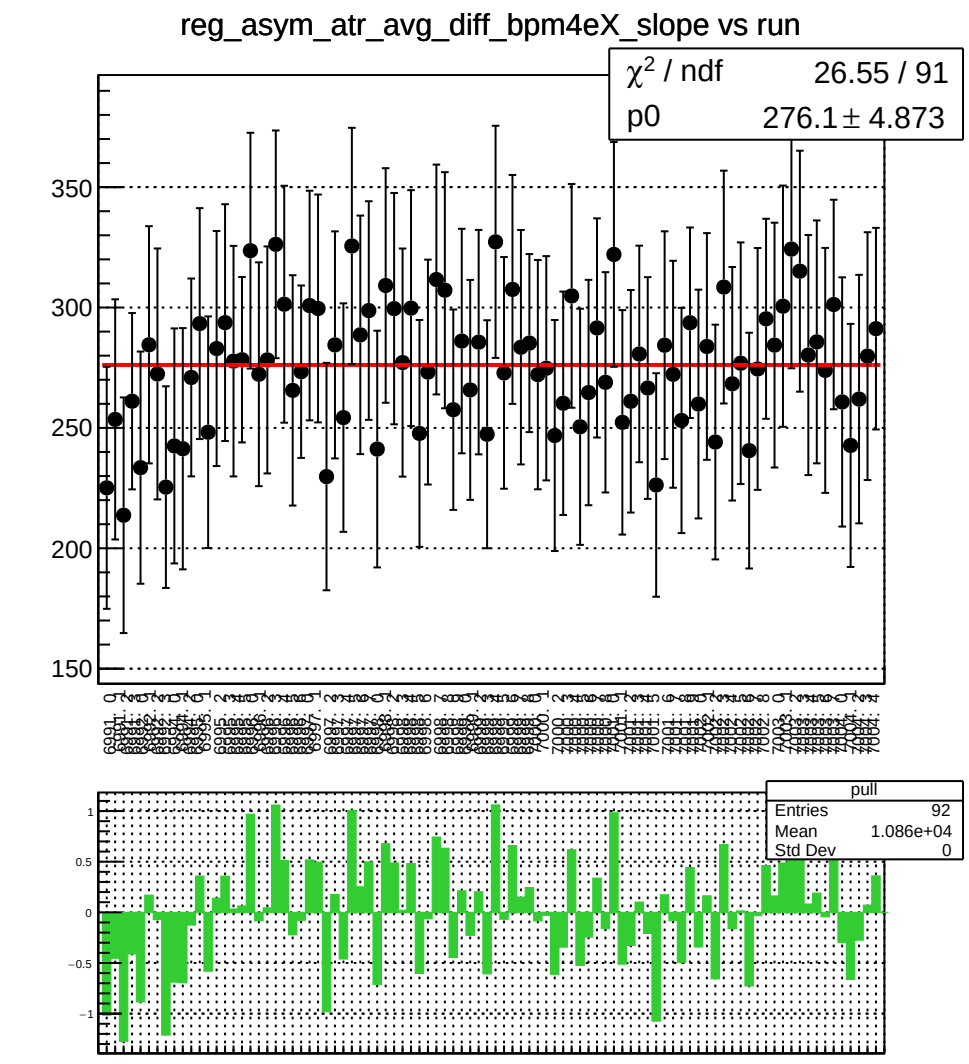

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 43.56 / 91
p0 132 ± 0.1703
pull
Entries 92
Mean 247.5
Std Dev 0
pull1D
Entries 92
Mean 0.007099
Std Dev 0.688

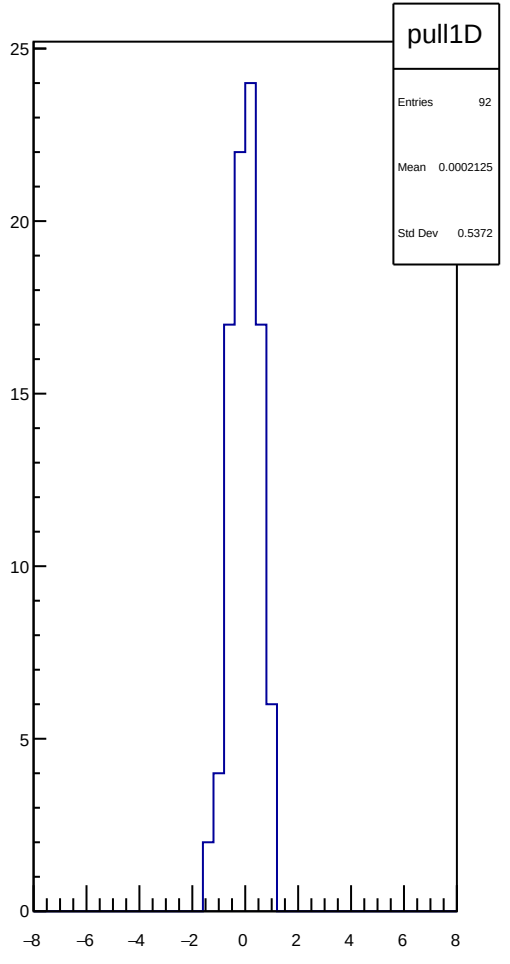

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 24.48 / 91
p0 −271.1 ± 5.286
pull
Entries 92
Mean −1297
Std Dev 0

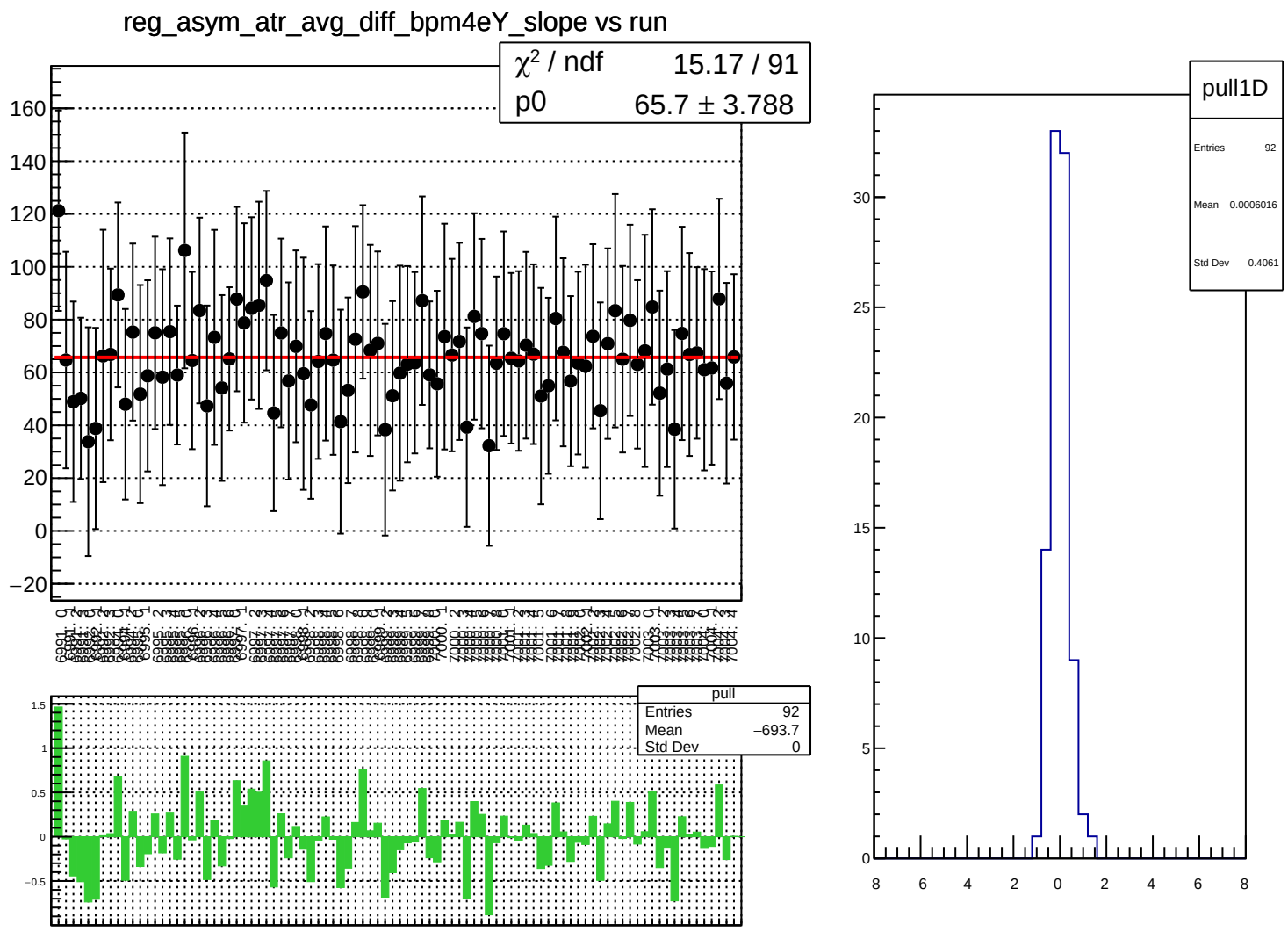

pull1D
Entries 92
Mean 0.001379
Std Dev 0.5158

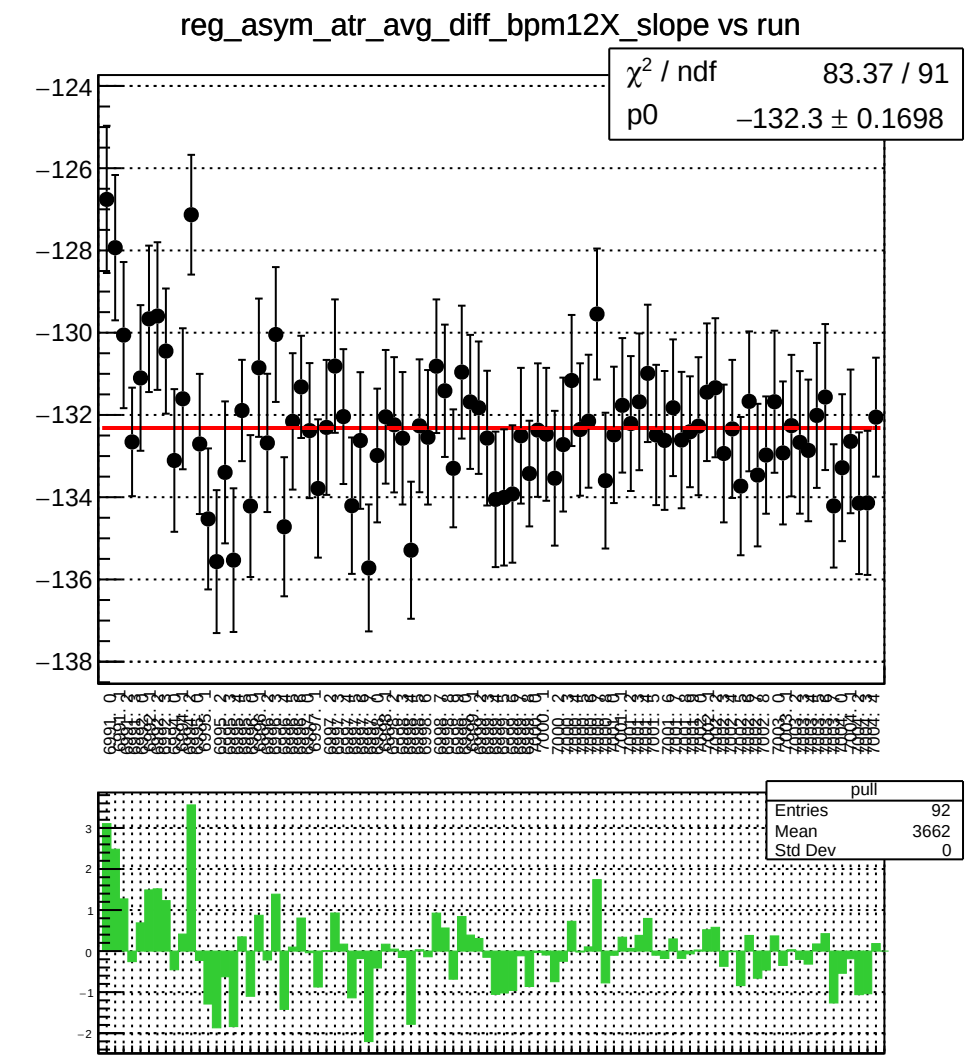

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.33 / 91
p0 −4.683 ± 3.602
pull
Entries 92
Mean 522.7
Std Dev 0

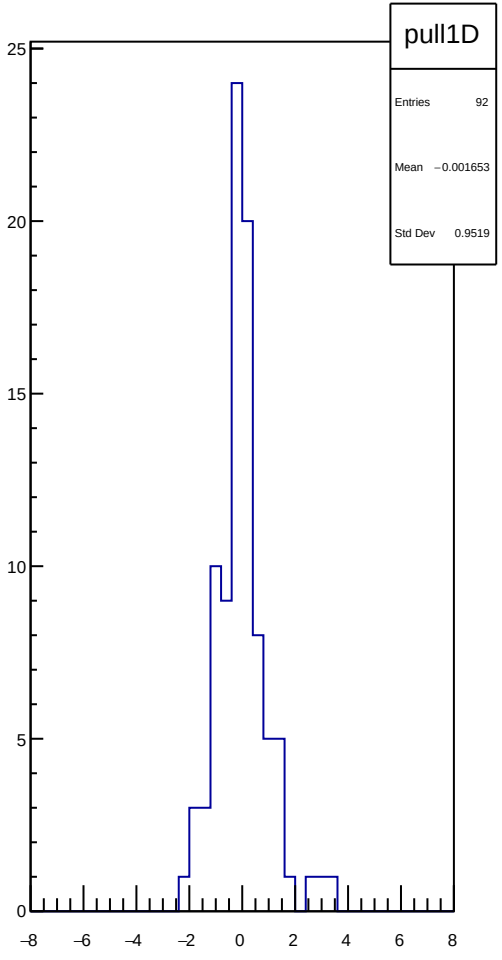

pull1D
Entries 92
Mean −0.0006463
Std Dev 0.3947

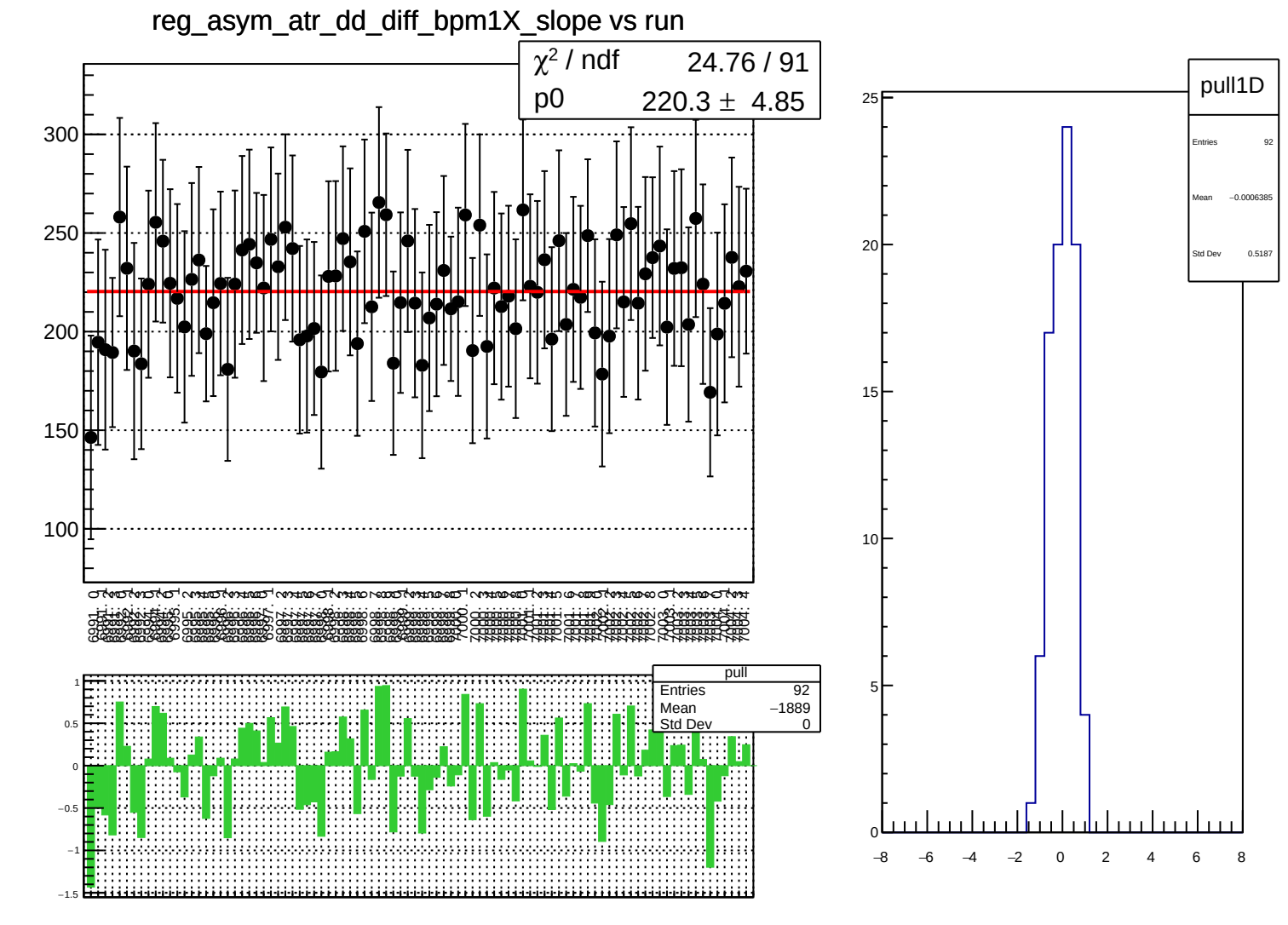

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.55 / 91
p0 276.1 ± 4.873
350
300
250
200
150
pull
Entries 92
Mean 1.086e+04
Std Dev 0
1
0.5
0
−0.5
−1

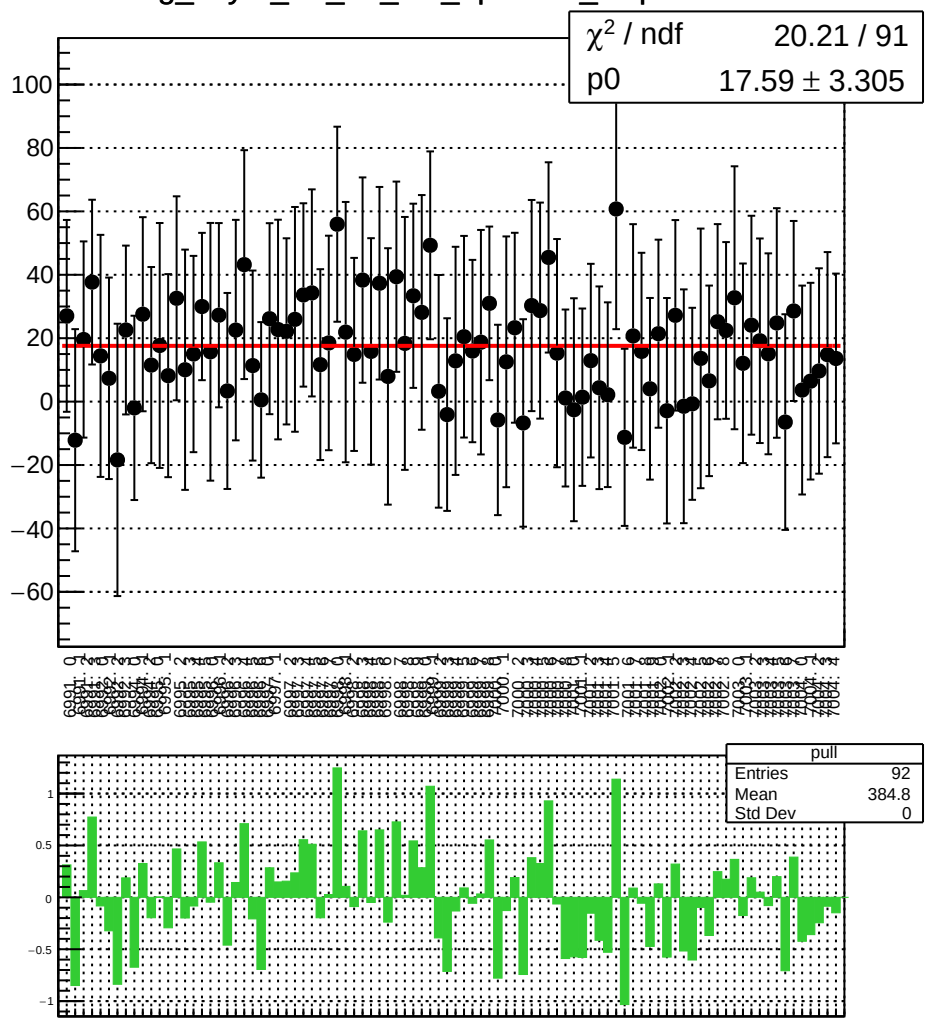

pull1D
Entries 92
Mean 0.0002125
Std Dev 0.5372
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

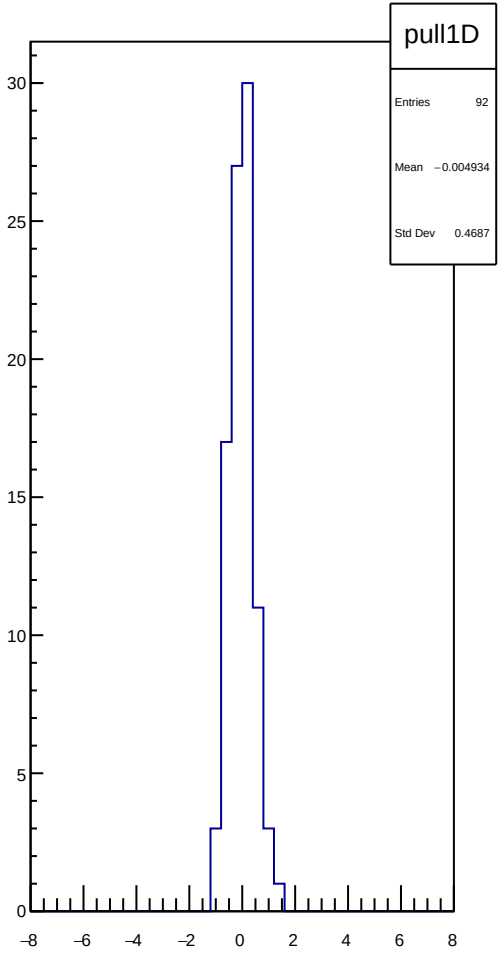

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.17 / 91
p0 65.7 ± 3.788
160
140
120
100
80
60
40
20
0
−20
pull
Entries 92
Mean −693.7
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 92
Mean 0.0006016
Std Dev 0.4061
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

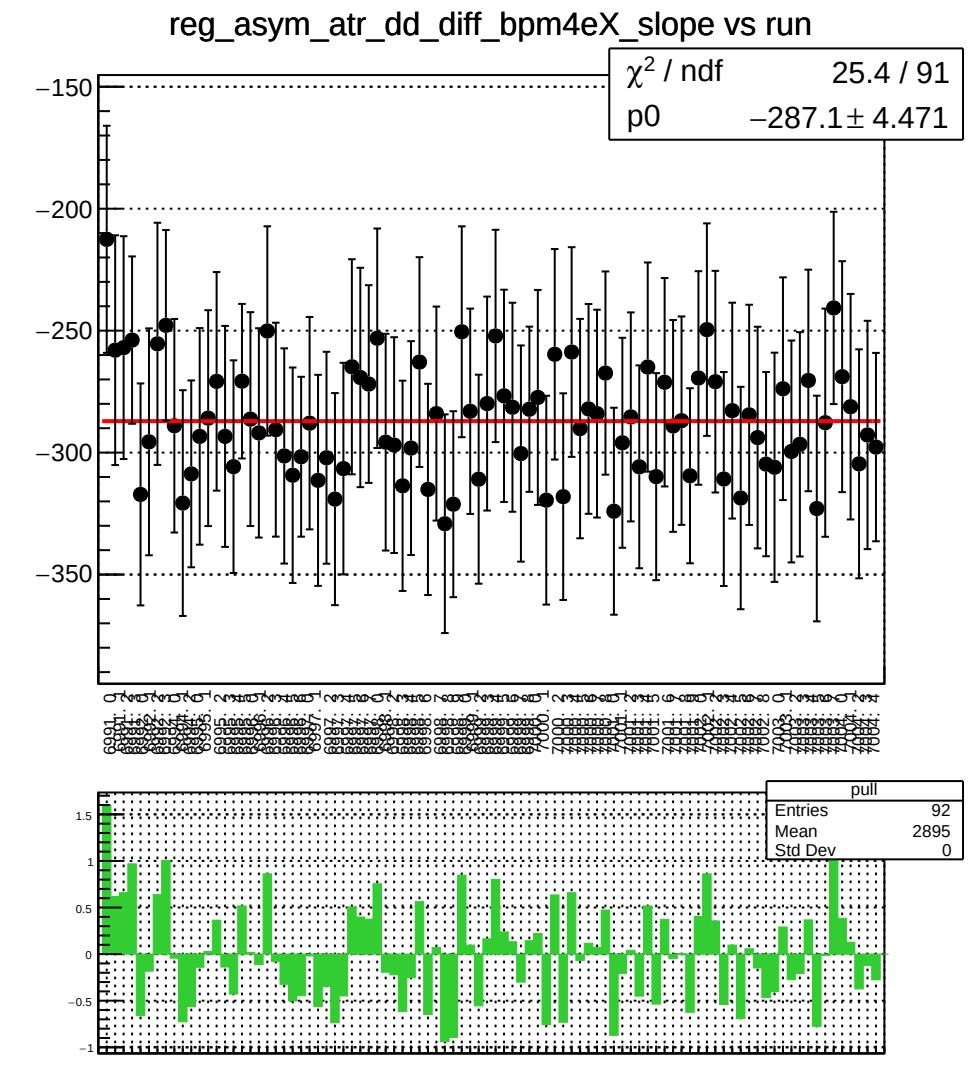

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 83.37 / 91
p0 −132.3 ± 0.1698
pull
Entries 92
Mean 3662
Std Dev 0

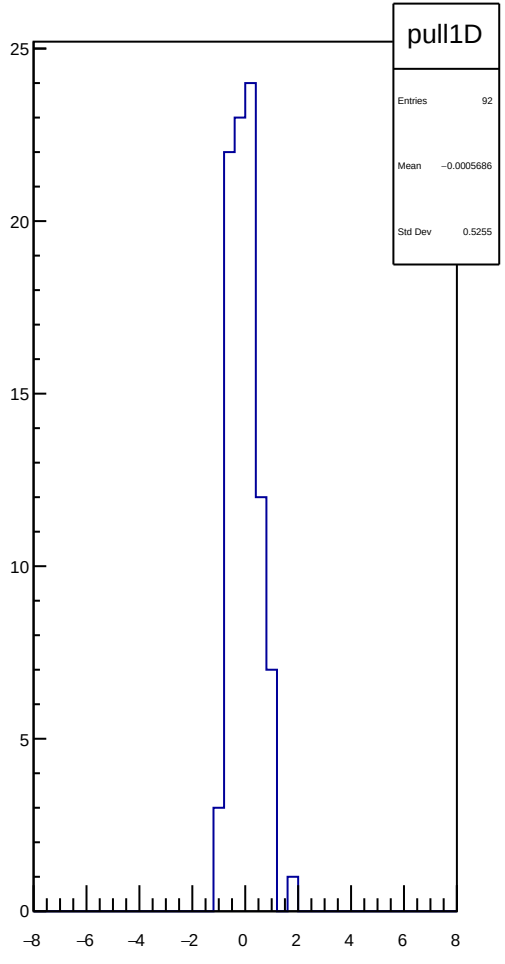

pull1D
Entries 92
Mean −0.001653
Std Dev 0.9519

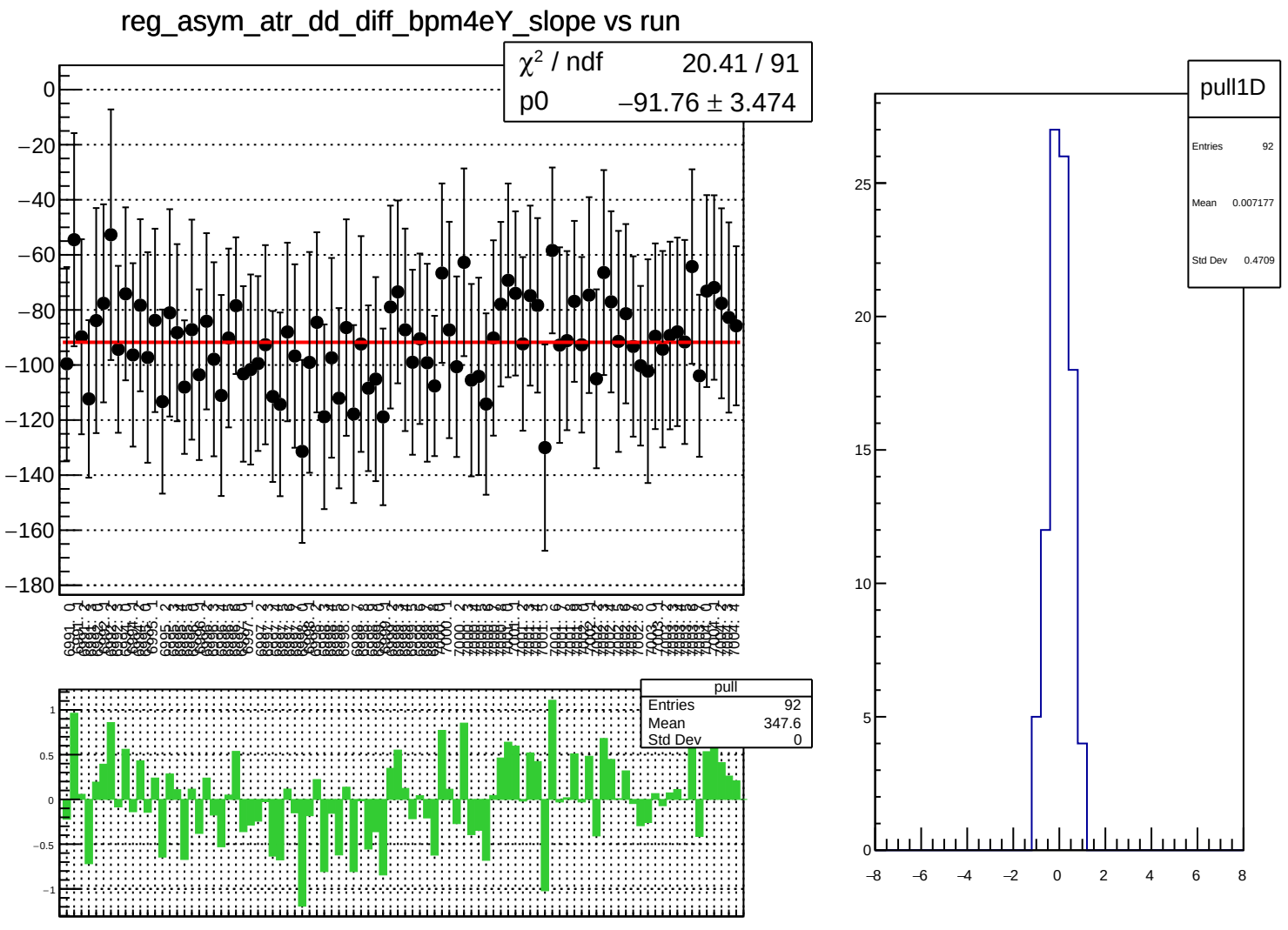

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 24.76 / 91
p0 220.3 ± 4.85
300
250
200
150
100
pull
Entries 92
Mean −1889
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.0006385
Std Dev 0.5187
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

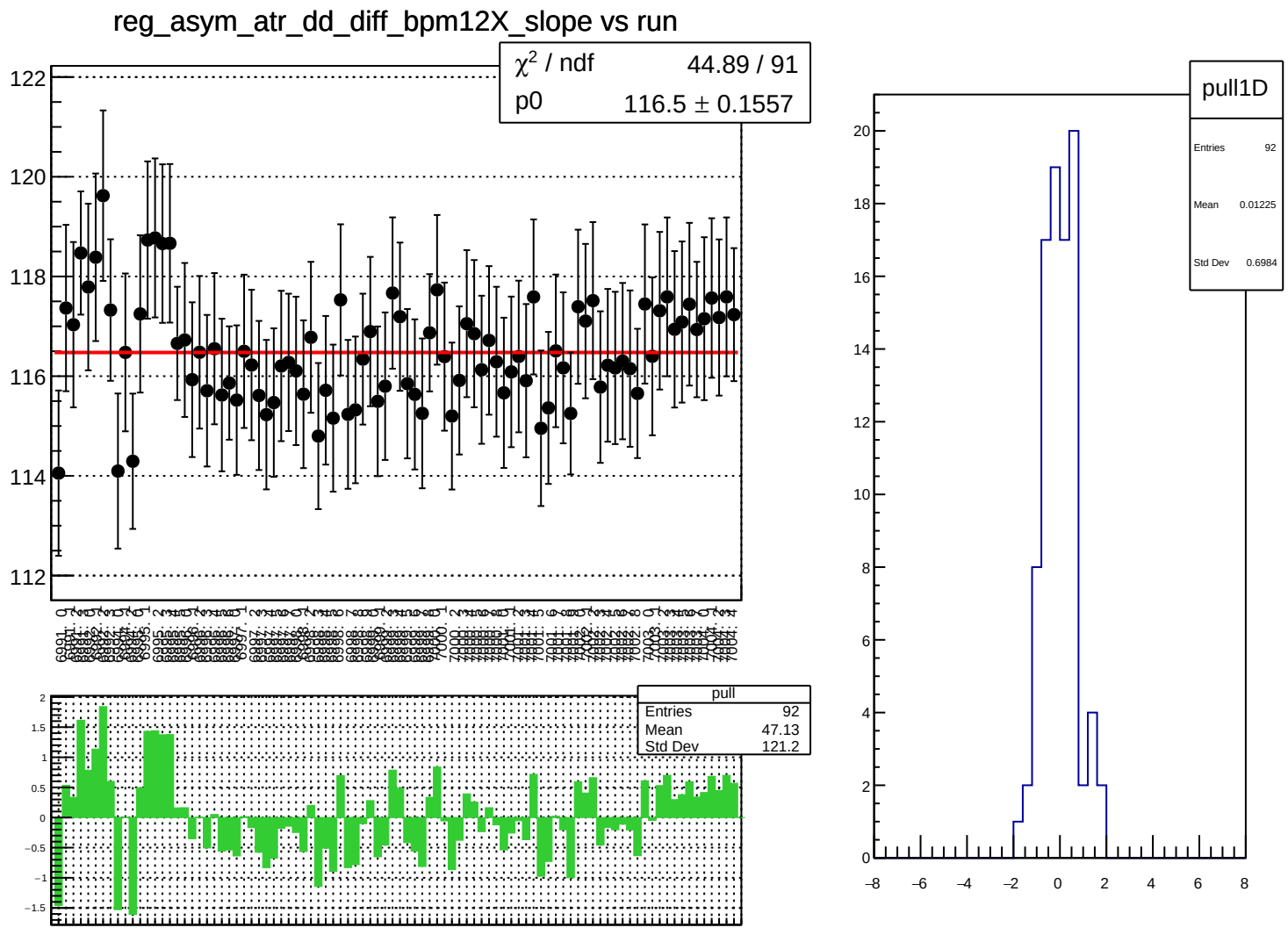

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.21 / 91
p0 17.59 ± 3.305
pull
Entries 92
Mean 384.8
Std Dev 0

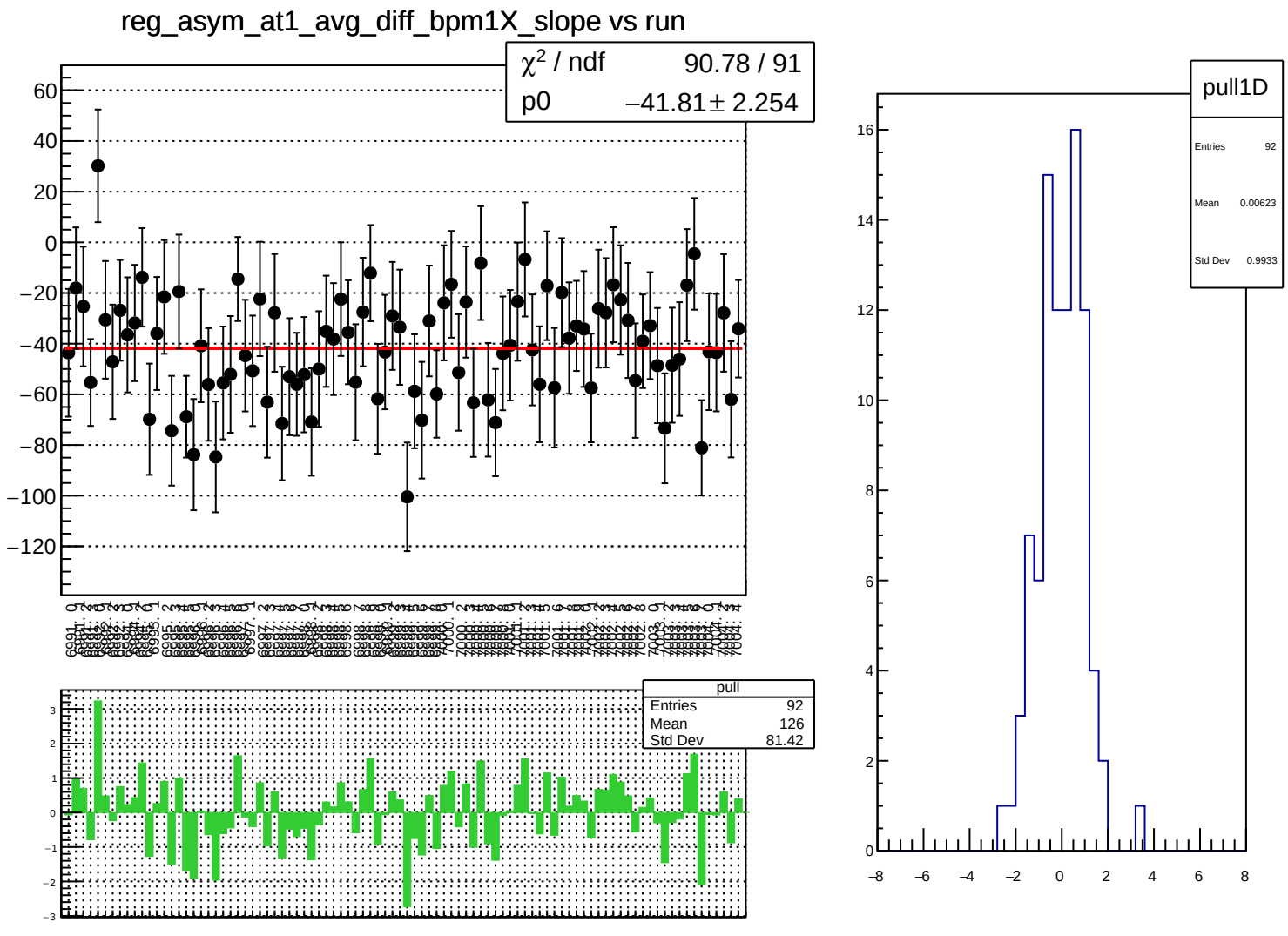

pull1D
Entries 92
Mean −0.004934
Std Dev 0.4687

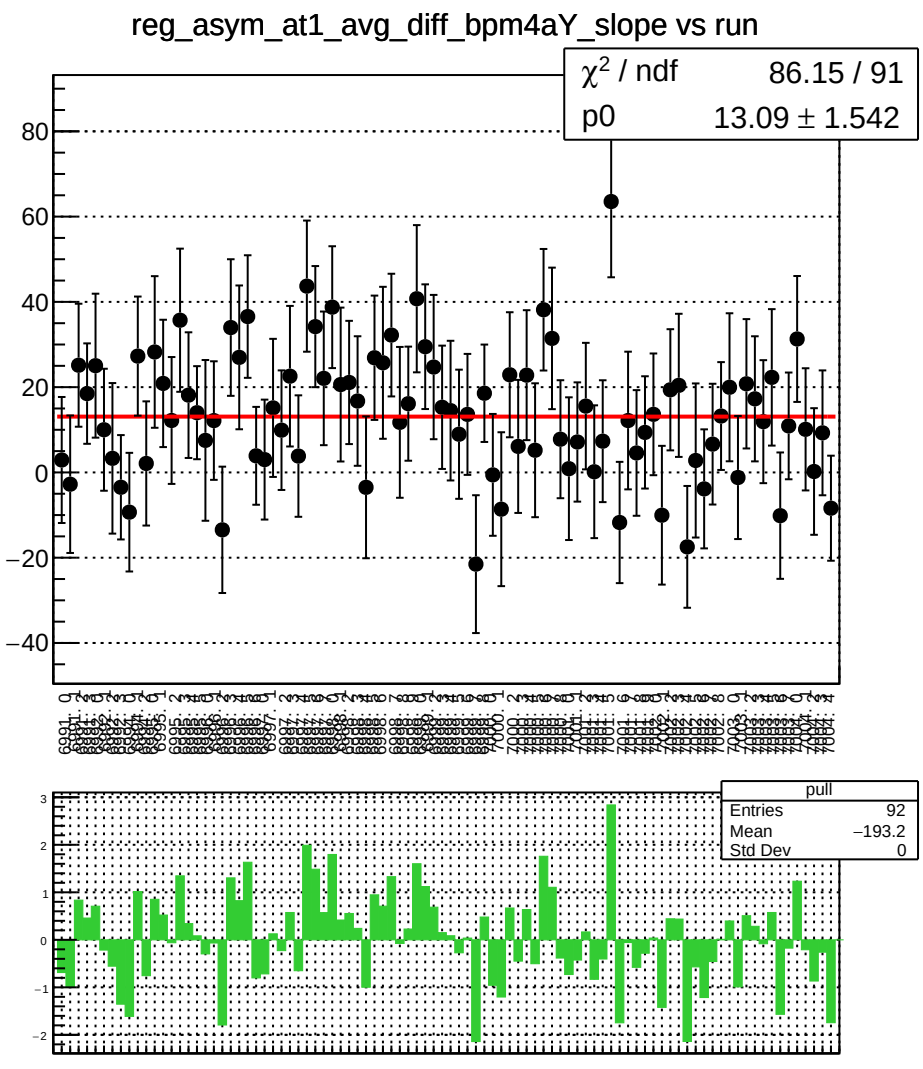

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.4 / 91
p0 −287.1 ± 4.471
−150
−200
−250
−300
−350
pull
Entries 92
Mean 2895
Std Dev 0
1.5
1
0.5
0
−0.5
−1

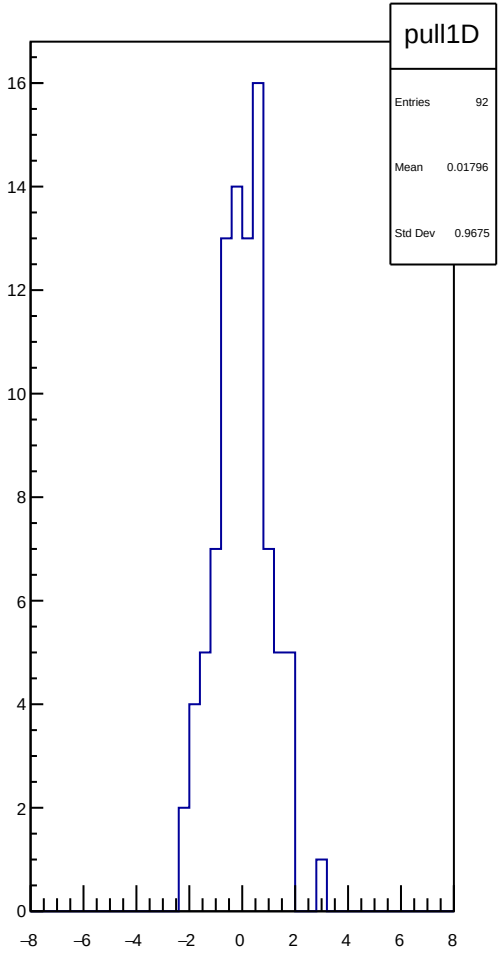

pull1D
Entries 92
Mean −0.0005686
Std Dev 0.5255
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

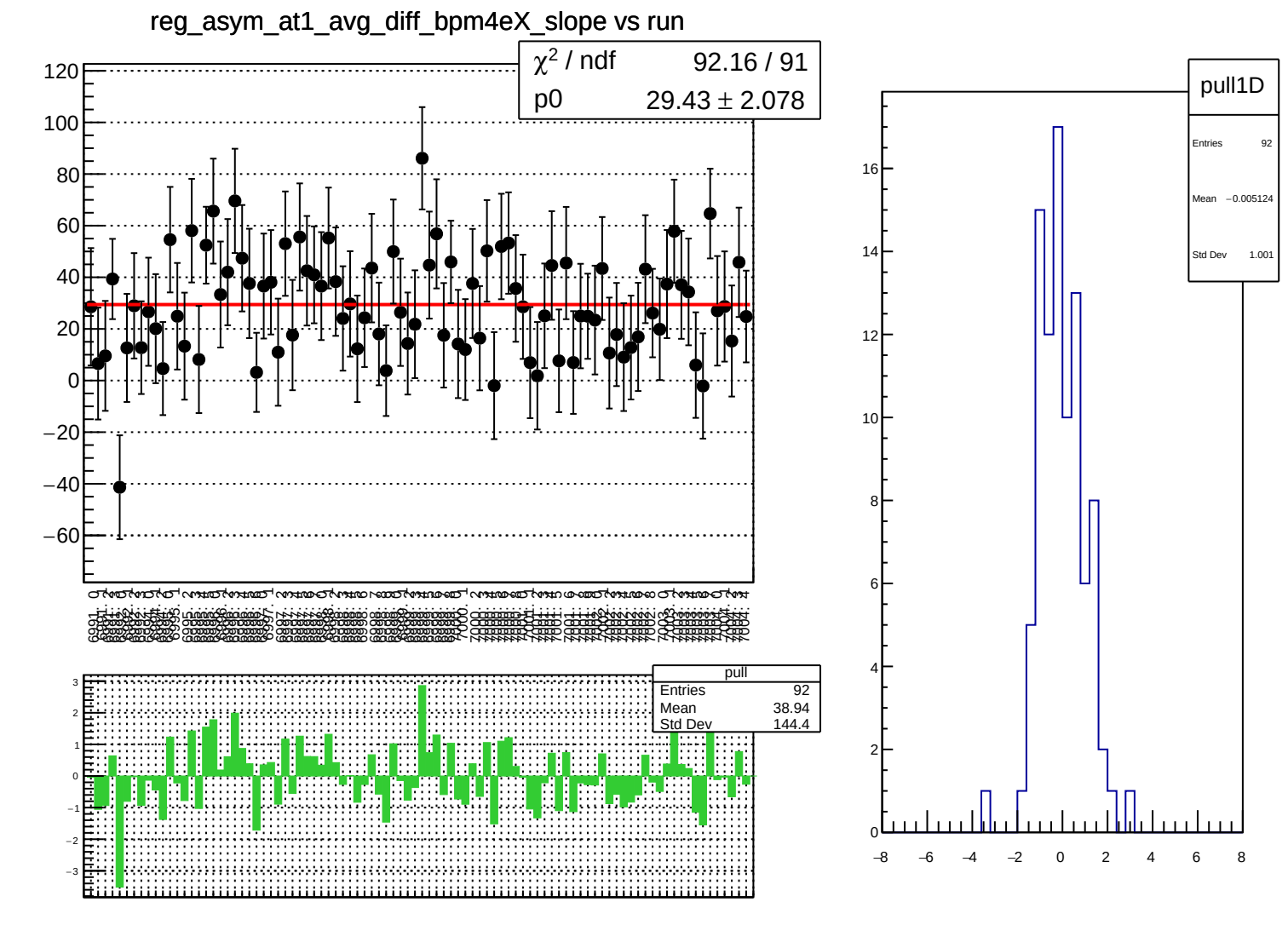

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.41 / 91
p0 −91.76 ± 3.474
pull
Entries 92
Mean 347.6
Std Dev 0
pull1D
Entries 92
Mean 0.007177
Std Dev 0.4709

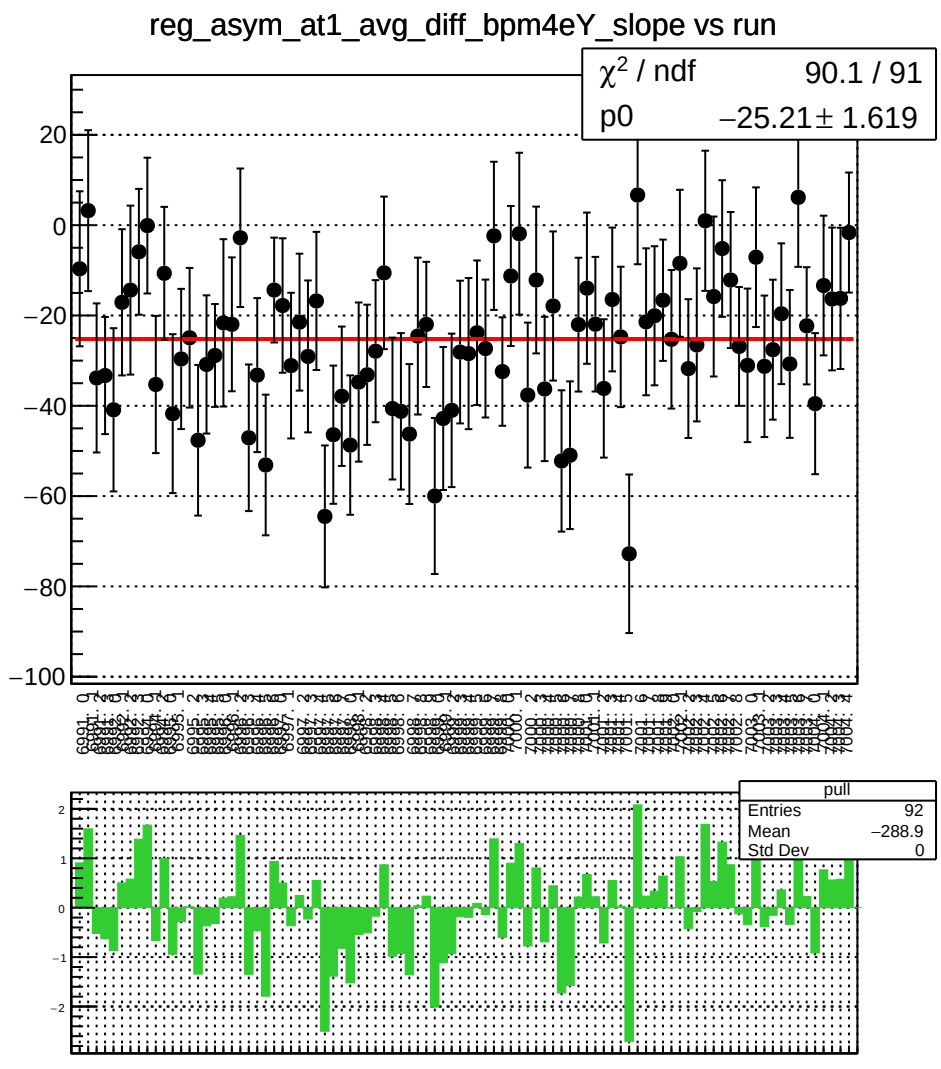

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 44.89 / 91
p0 116.5 ± 0.1557
122
120
118
116
114
112
pull
Entries 92
Mean 47.13
Std Dev 121.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.01225
Std Dev 0.6984
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

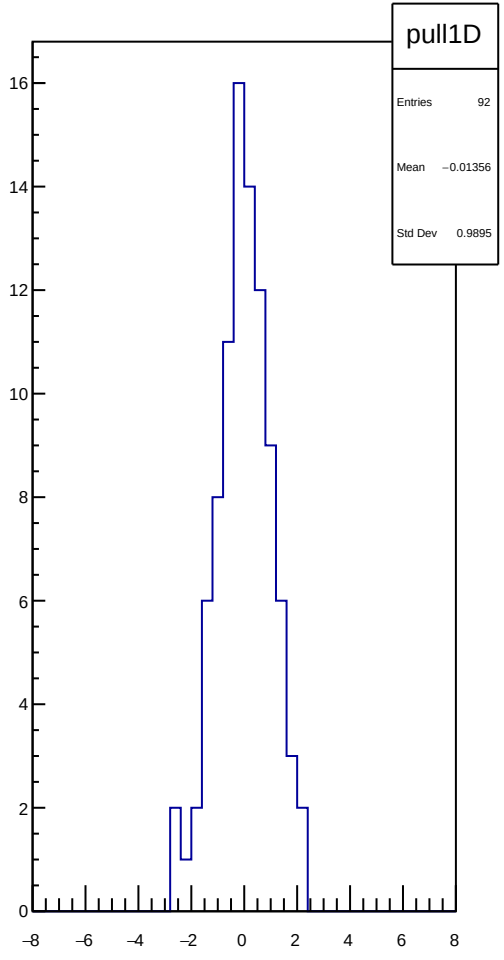

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 90.78 / 91
p0 −41.81 ± 2.254
pull
Entries 92
Mean 126
Std Dev 81.42
pull1D
Entries 92
Mean 0.00623
Std Dev 0.9933

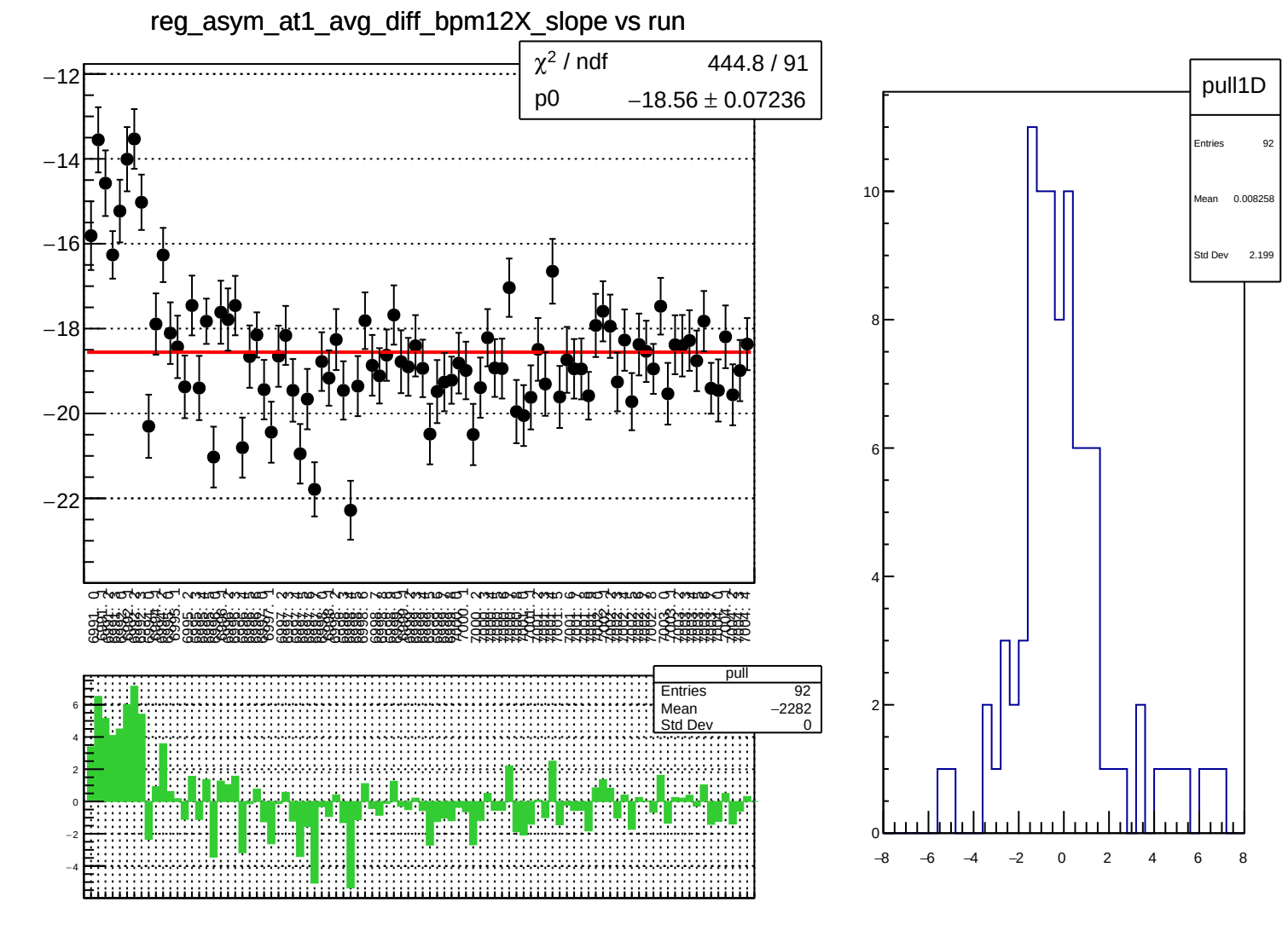

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.15 / 91
p0 13.09 ± 1.542
pull
Entries 92
Mean −193.2
Std Dev 0

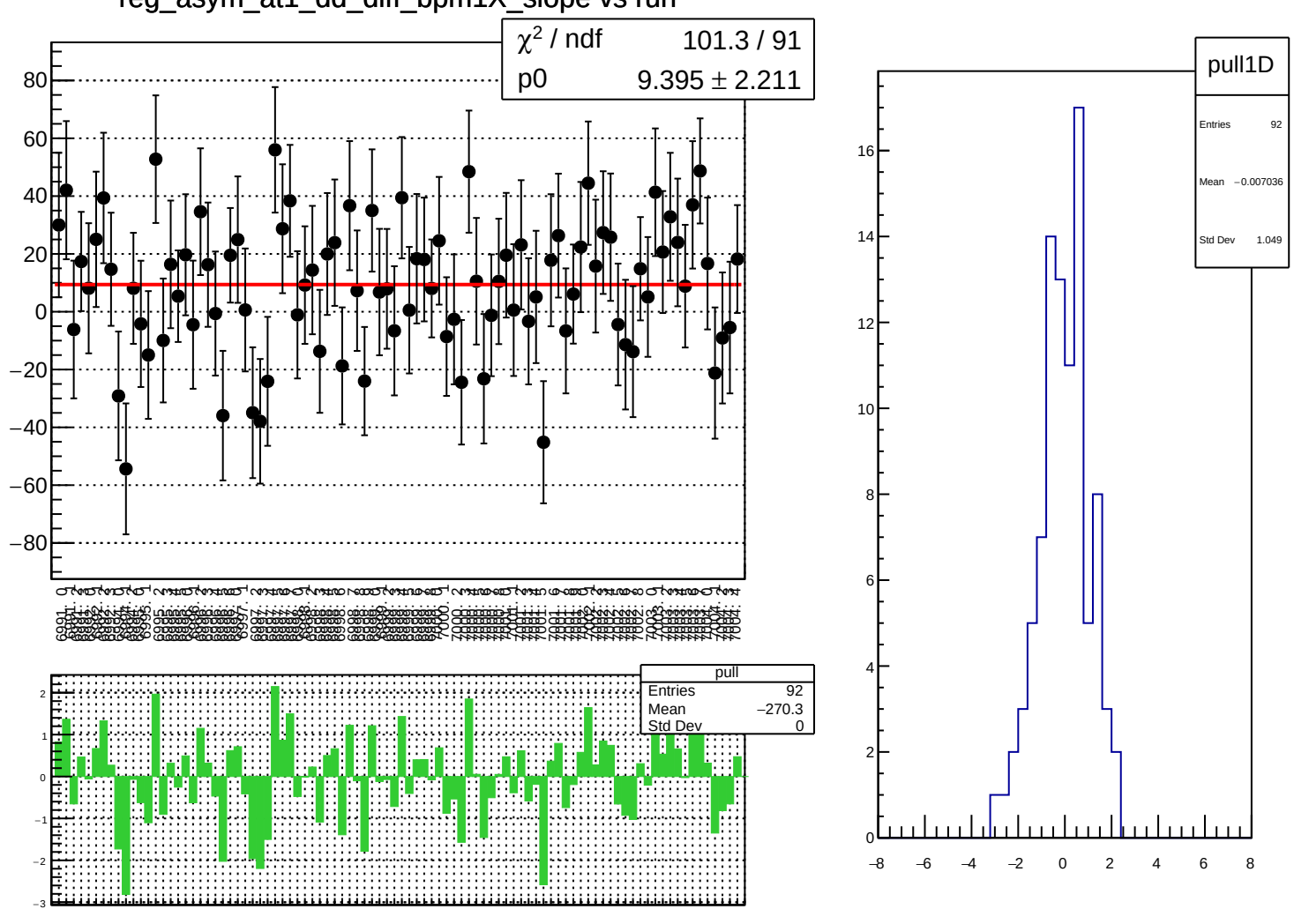

pull1D
Entries 92
Mean 0.01796
Std Dev 0.9675

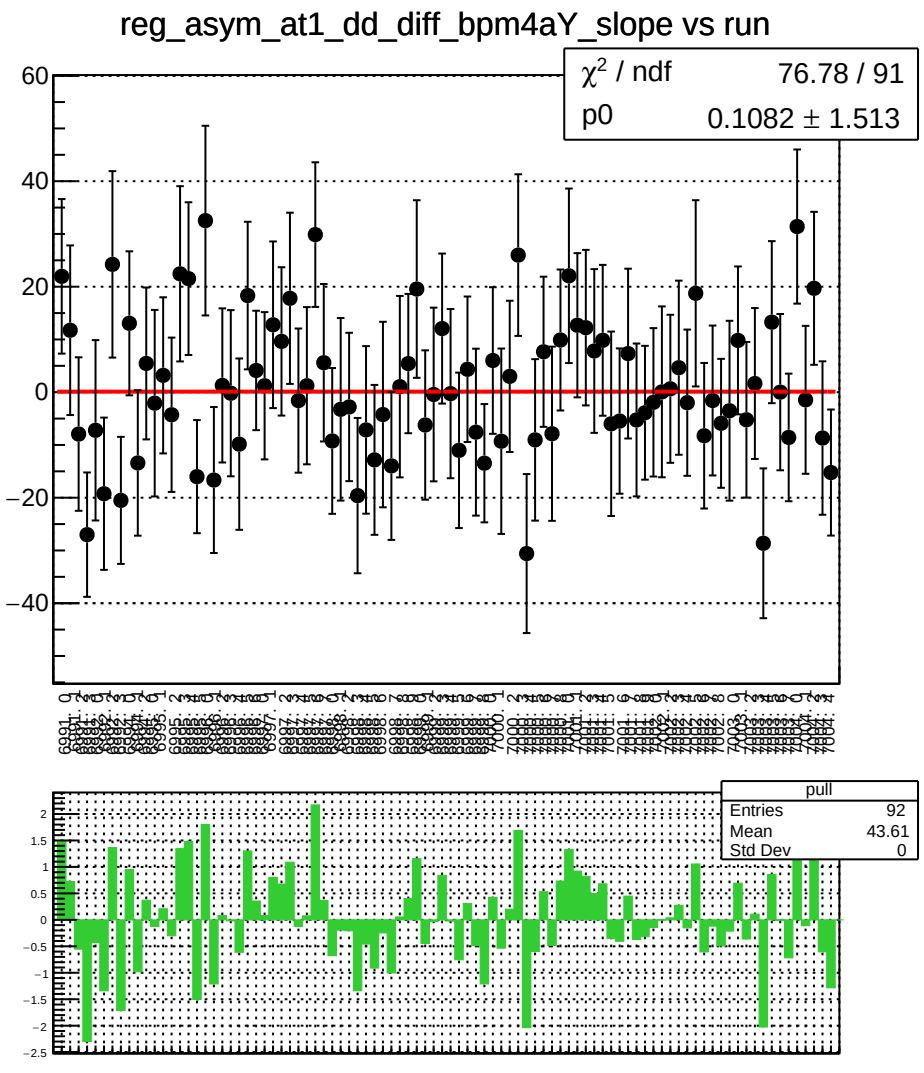

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 92.16 / 91
p0 29.43 ± 2.078
pull
Entries 92
Mean 38.94
Std Dev 144.4
pull1D
Entries 92
Mean −0.005124
Std Dev 1.001

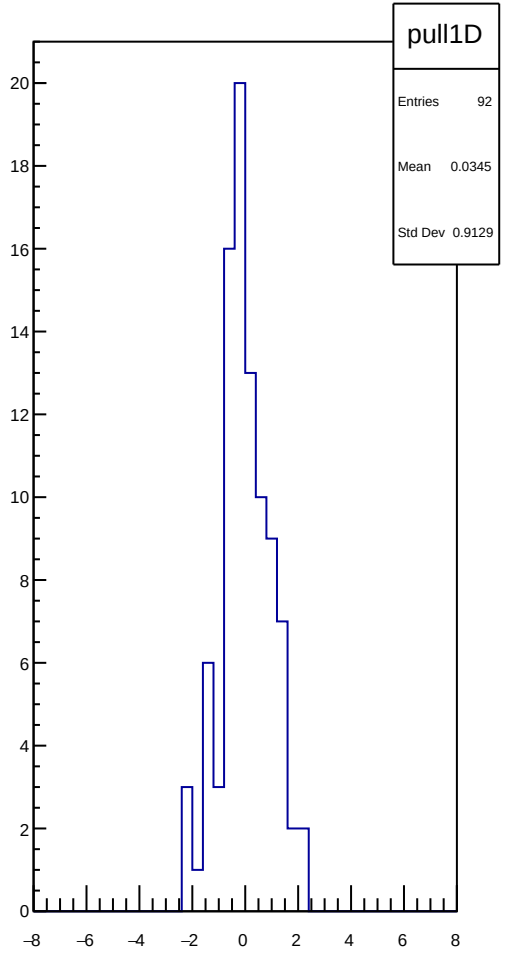

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 90.1 / 91
p0 −25.21± 1.619
20
0
−20
−40
−60
−80
−100
pull
Entries 92
Mean −288.9
Std Dev 0
2
1
0
−1
−2

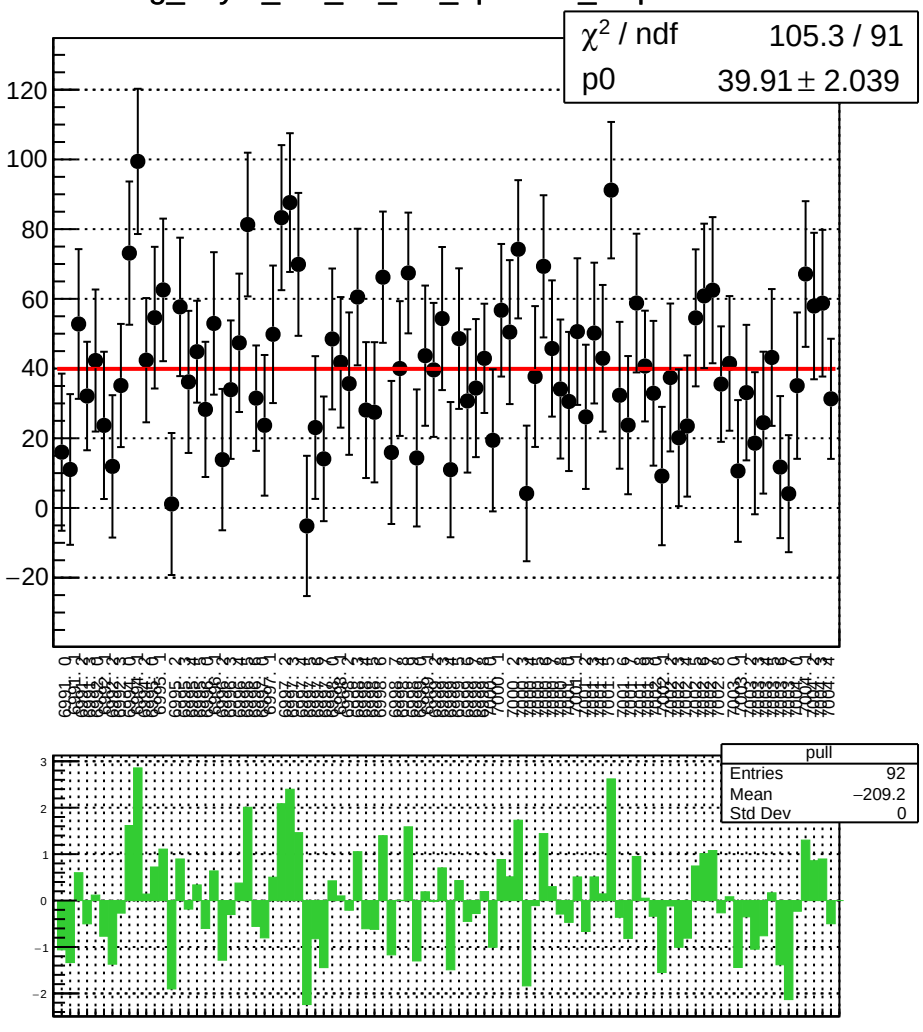

pull1D
Entries 92
Mean −0.01356
Std Dev 0.9895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

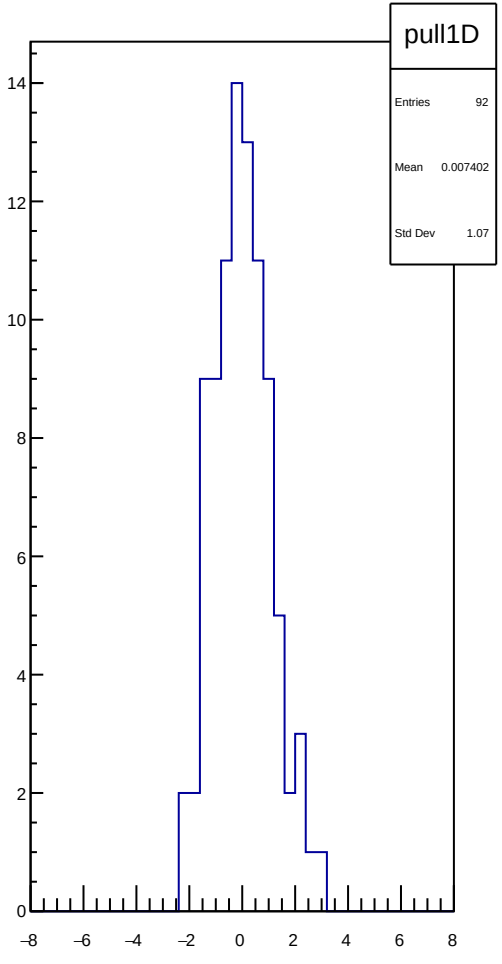

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 444.8 / 91
p0 −18.56 ± 0.07236
pull
Entries 92
Mean −2282
Std Dev 0
pull1D
Entries 92
Mean 0.008258
Std Dev 2.199

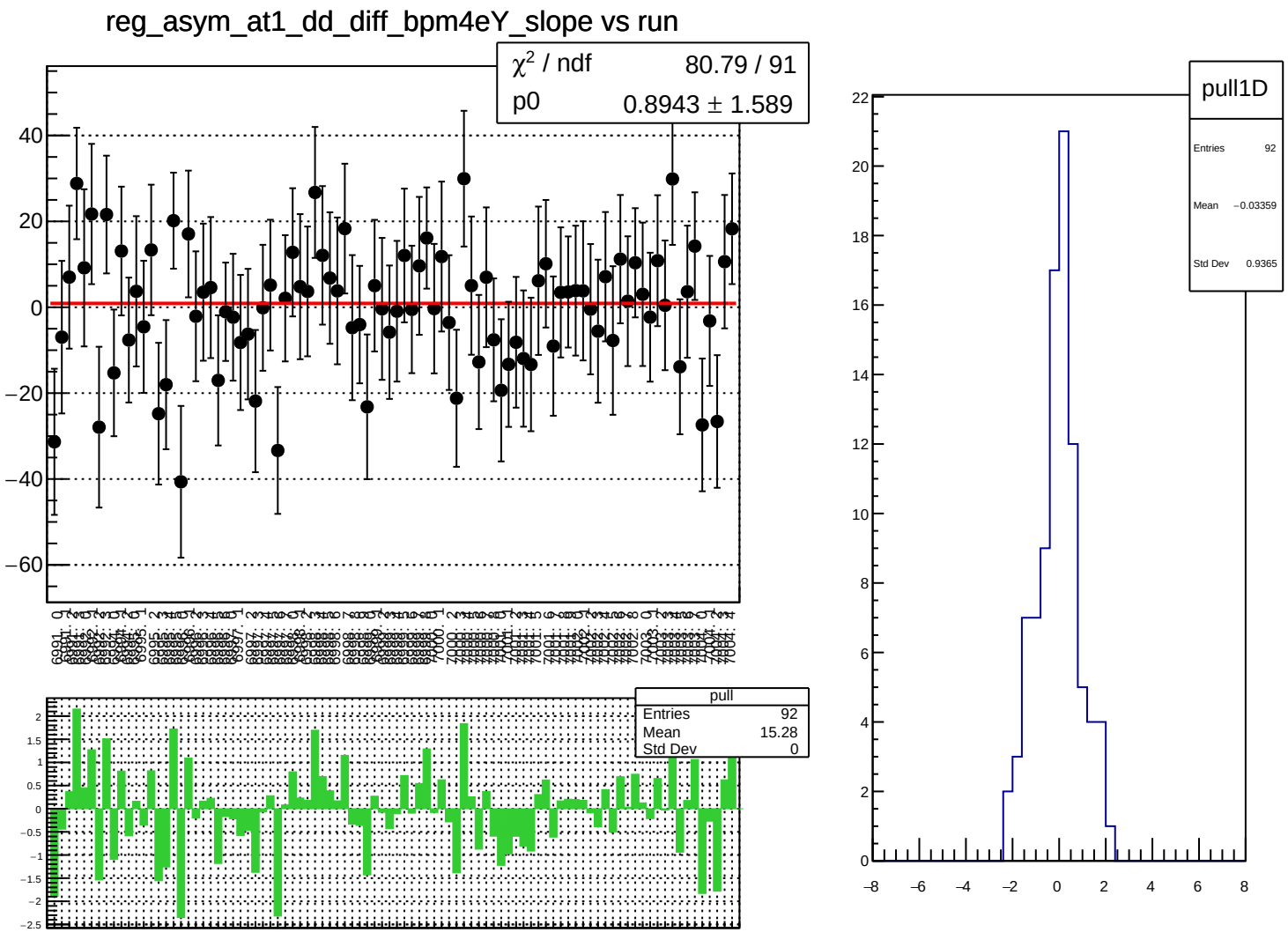

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 101.3 / 91
p0 9.395 ± 2.211
pull
Entries 92
Mean −270.3
Std Dev 0
pull1D
Entries 92
Mean −0.007036
Std Dev 1.049

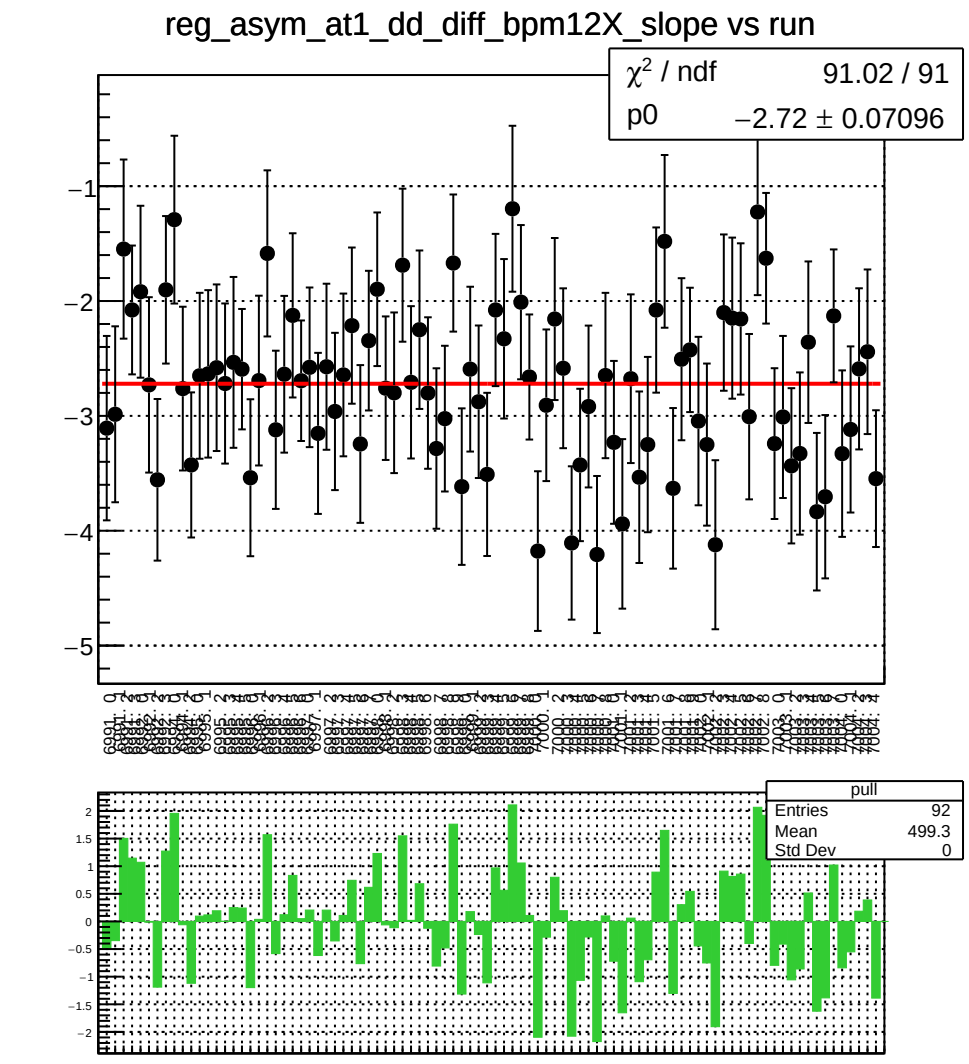

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.78 / 91
p0 0.1082 ± 1.513
pull
Entries 92
Mean 43.61
Std Dev 0

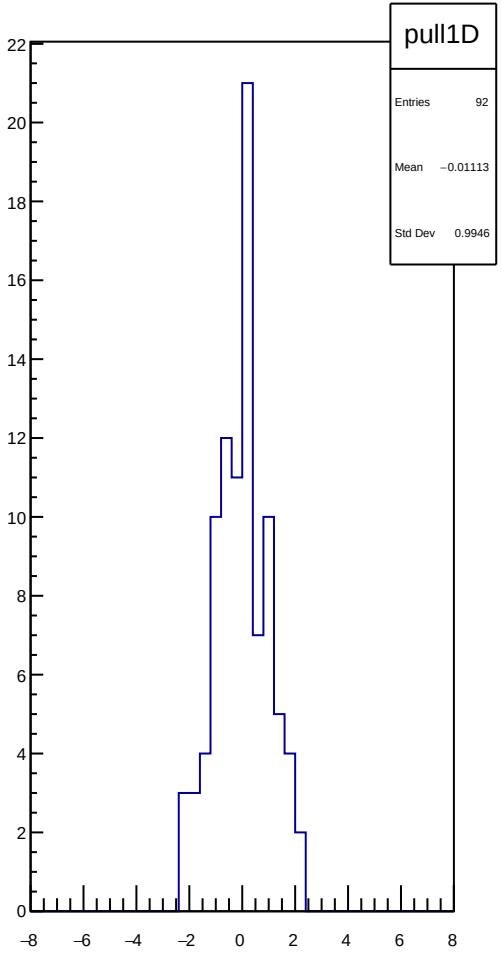

pull1D
Entries 92
Mean 0.0345
Std Dev 0.9129

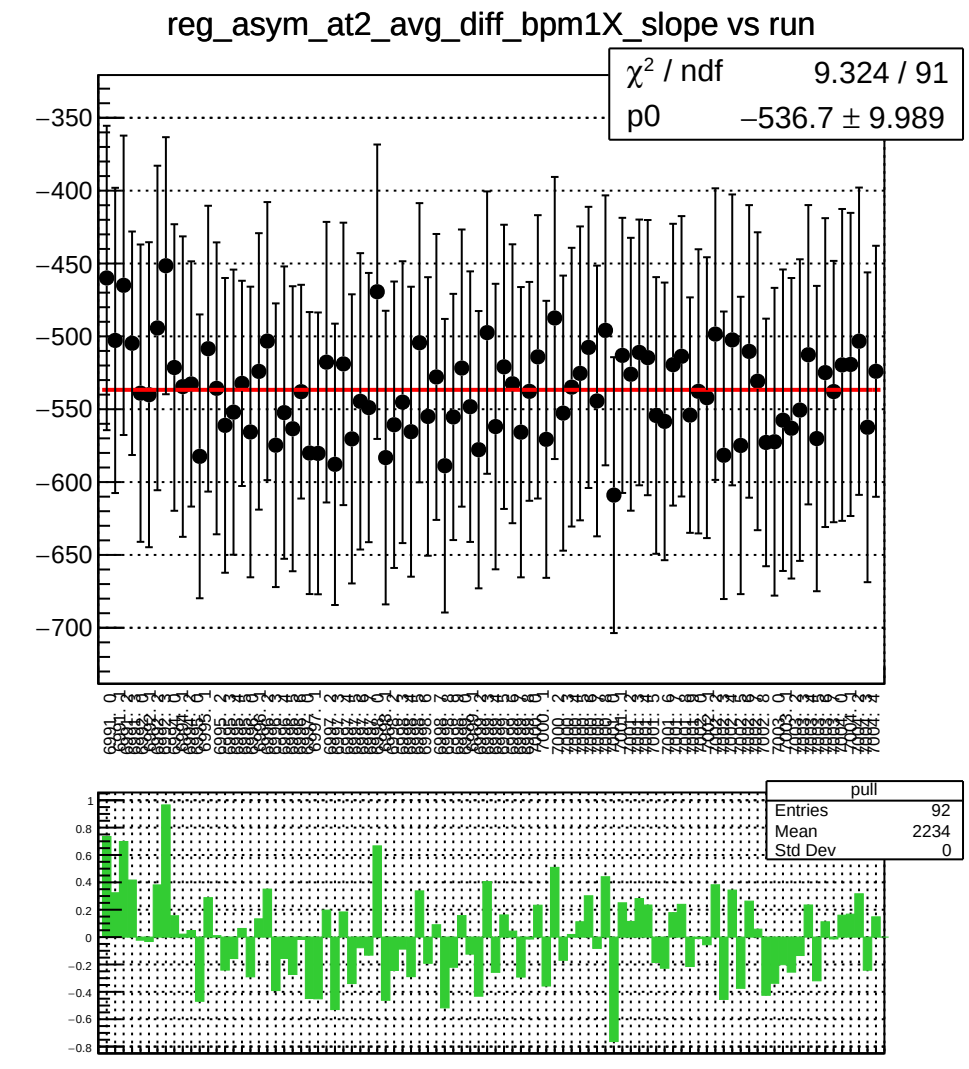

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.3 / 91
p0 39.91 ± 2.039
pull
Entries 92
Mean −209.2
Std Dev 0

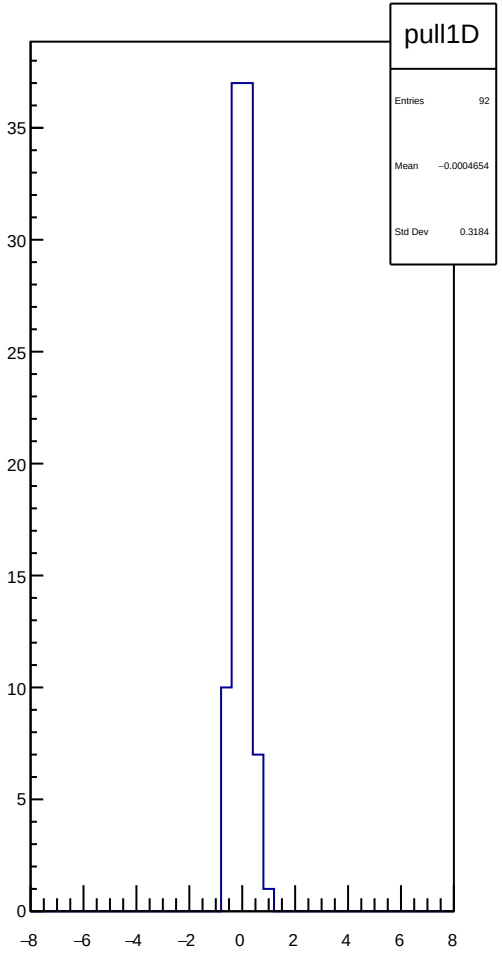

pull1D
Entries 92
Mean 0.007402
Std Dev 1.07

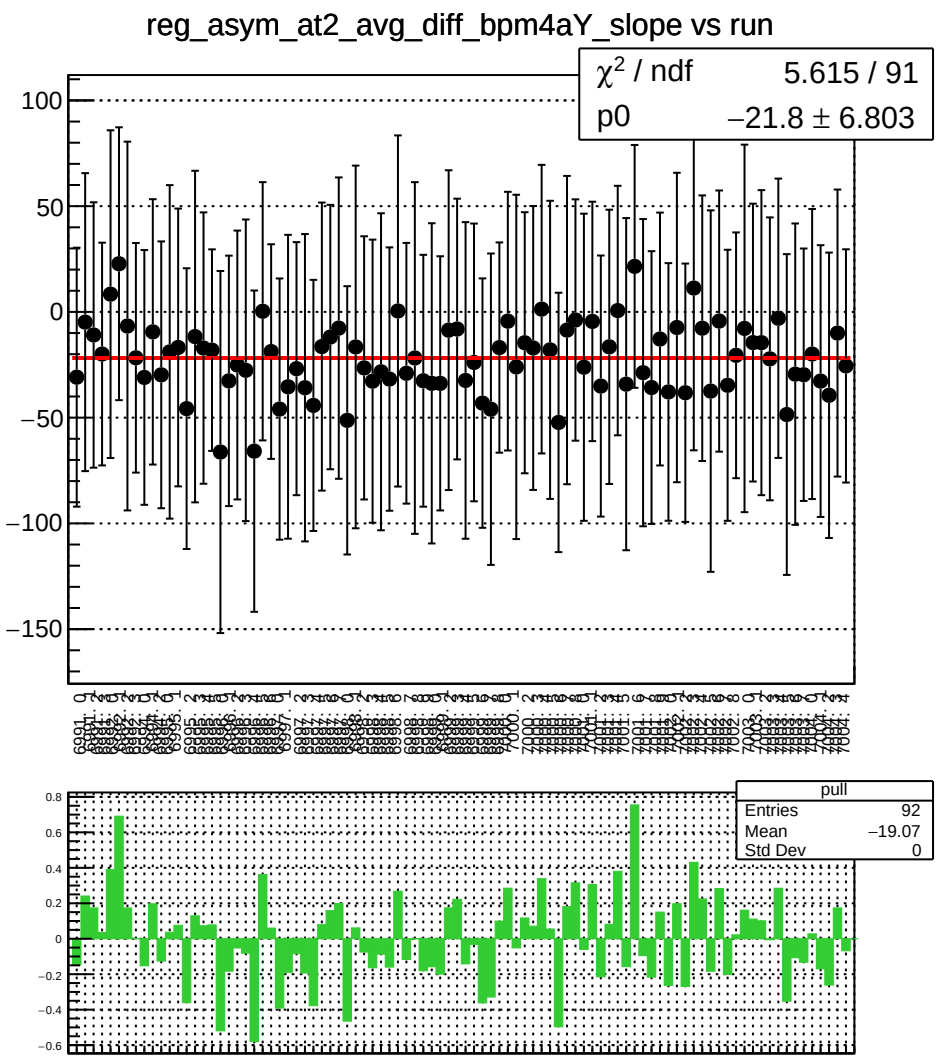

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.79 / 91
p0 0.8943 ± 1.589
pull
Entries 92
Mean 15.28
Std Dev 0
pull1D
Entries 92
Mean −0.03359
Std Dev 0.9365

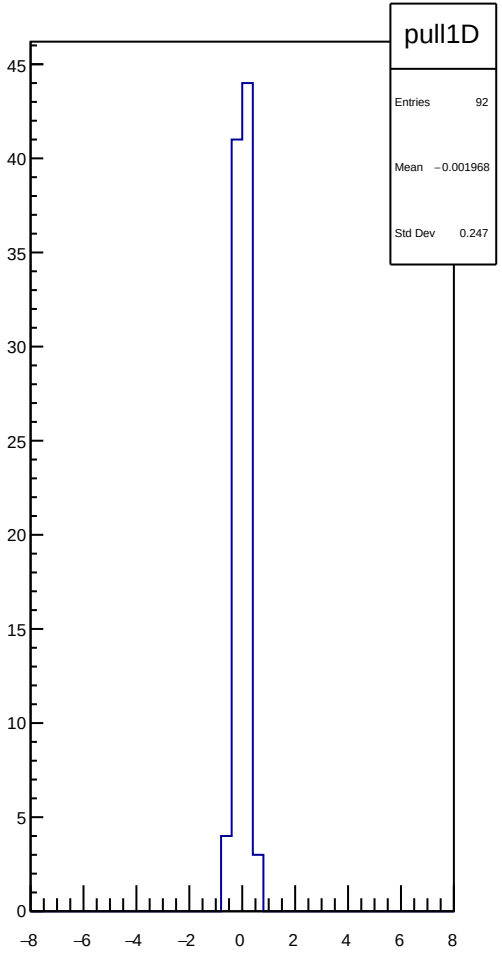

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 91.02 / 91
p0 −2.72 ± 0.07096
pull
Entries 92
Mean 499.3
Std Dev 0

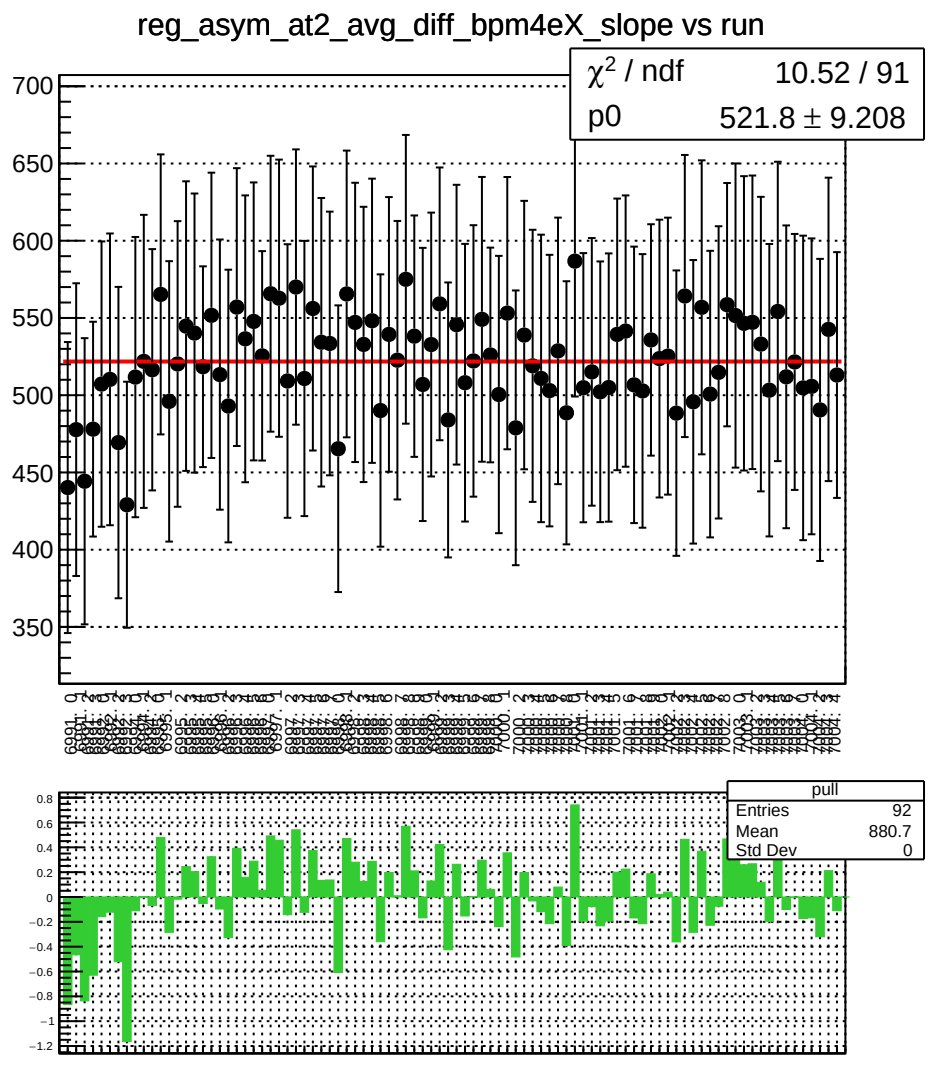

pull1D
Entries 92
Mean −0.01113
Std Dev 0.9946

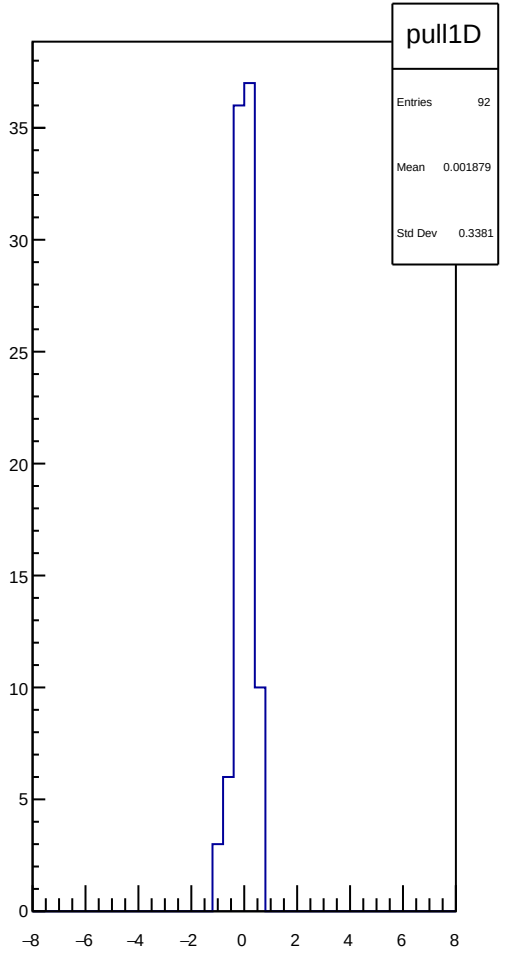

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.324 / 91
p0 −536.7 ± 9.989
−350
−400
−450
−500
−550
−600
−650
−700
pull
Entries 92
Mean 2234
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

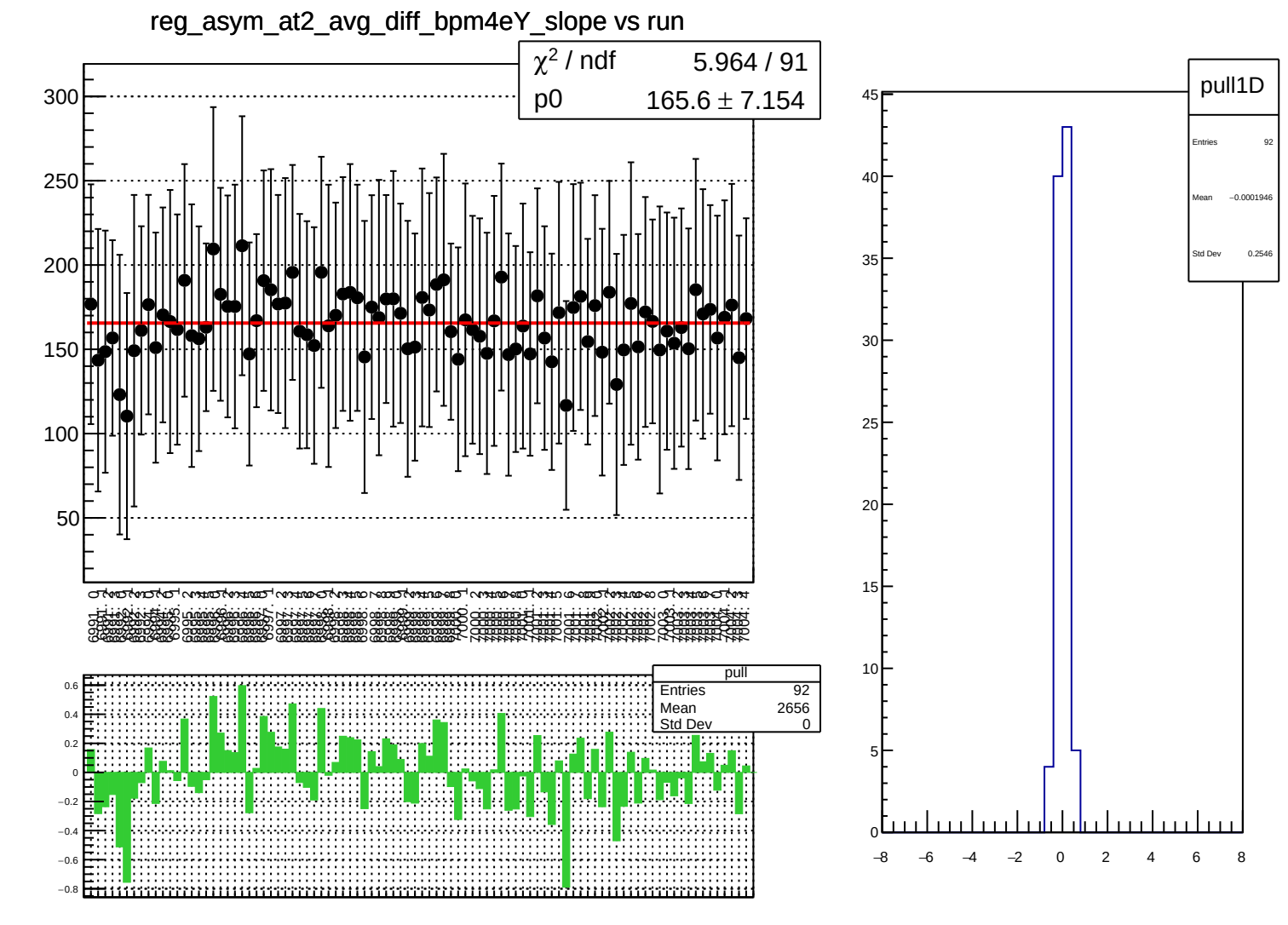

pull1D
Entries 92
Mean −0.0004654
Std Dev 0.3184
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

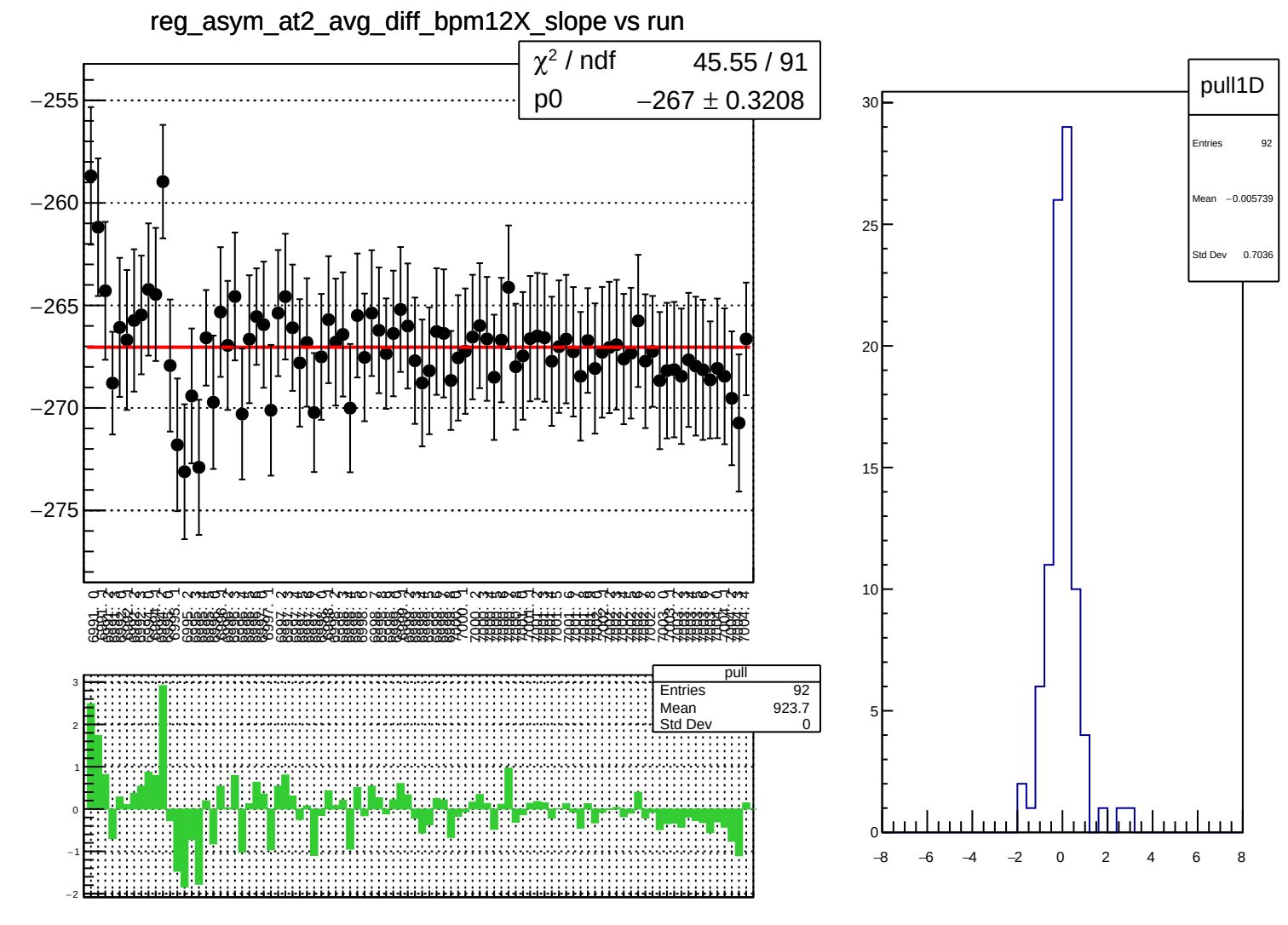

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.615 / 91
p0 −21.8 ± 6.803
pull
Entries 92
Mean −19.07
Std Dev 0

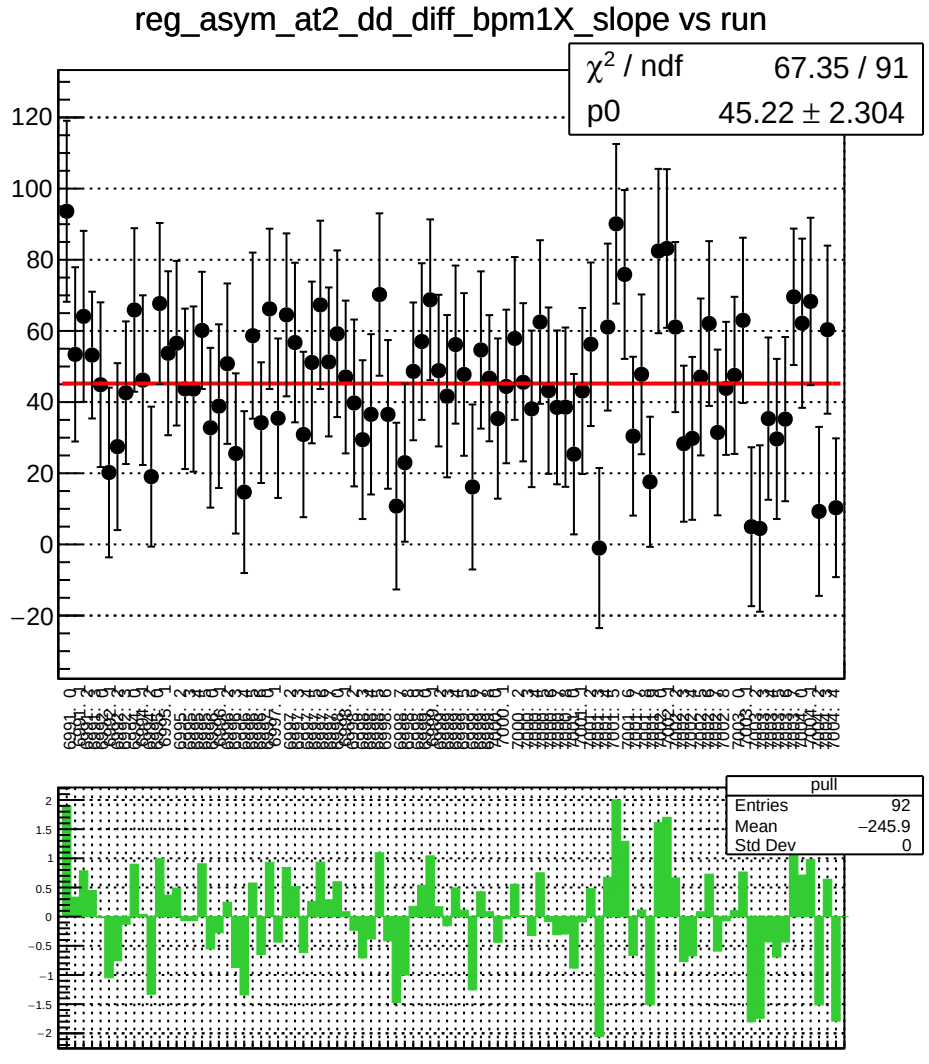

pull1D
Entries 92
Mean −0.001968
Std Dev 0.247

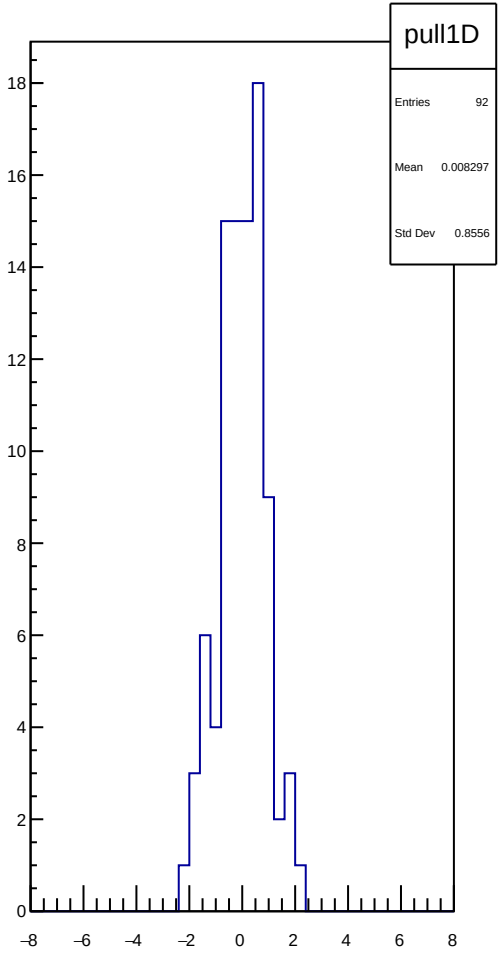

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 10.52 / 91
p0 521.8 ± 9.208
700
650
600
550
500
450
400
350
pull
Entries 92
Mean 880.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

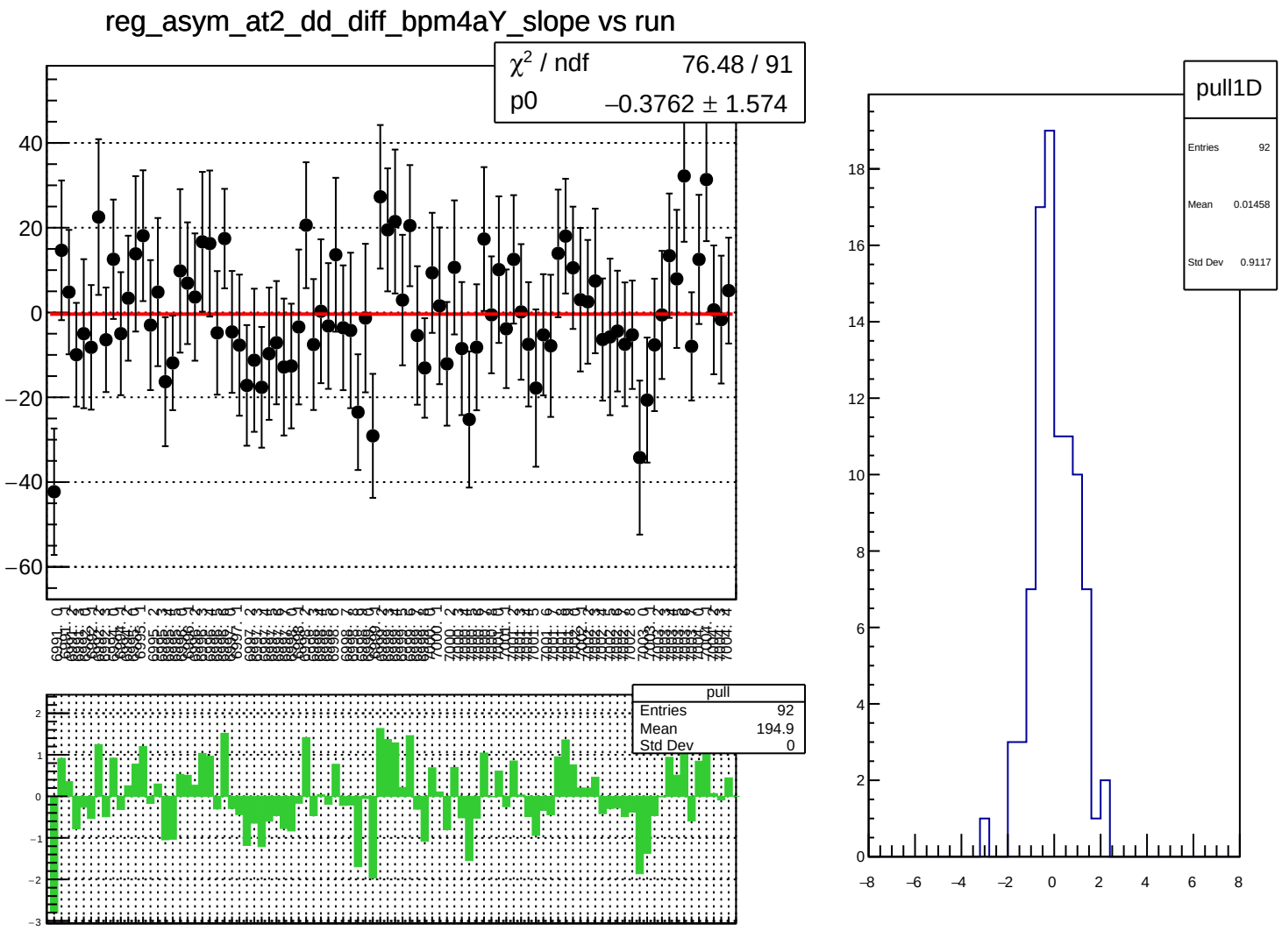

pull1D
Entries 92
Mean 0.001879
Std Dev 0.3381
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

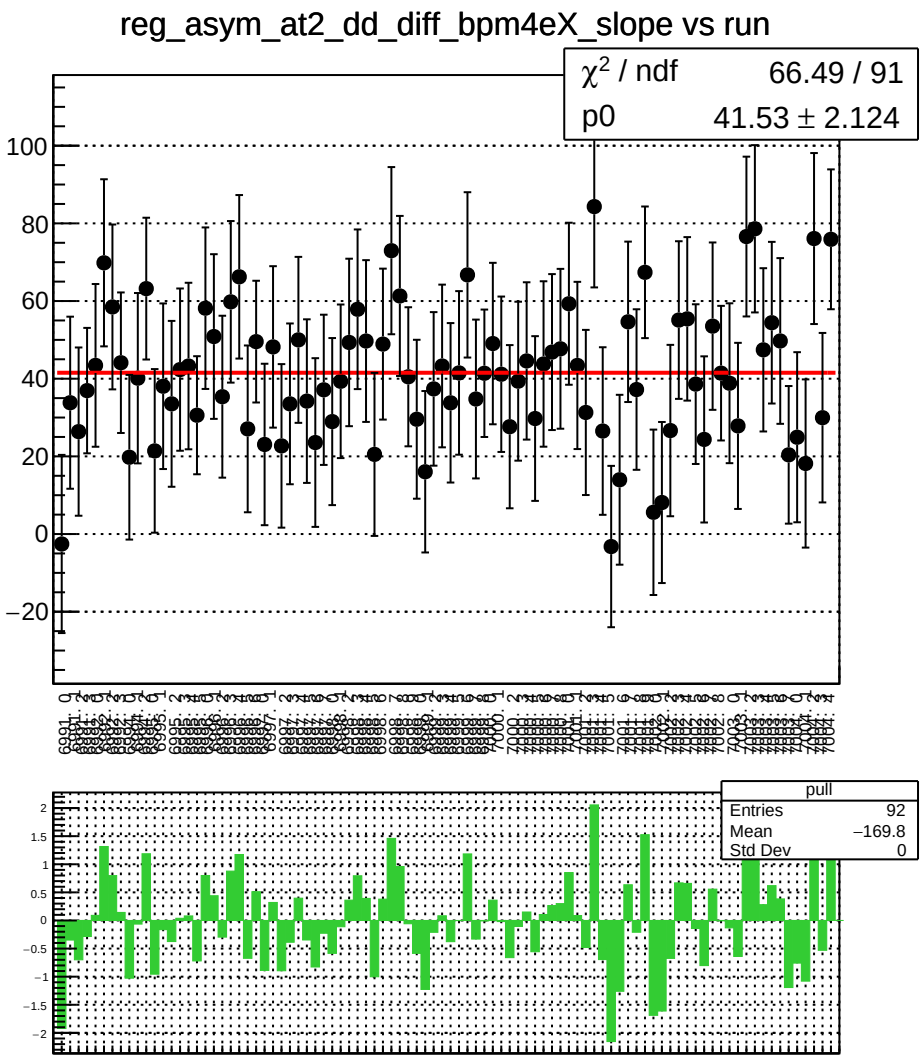

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.964 / 91
p0 165.6 ± 7.154
pull
Entries 92
Mean 2656
Std Dev 0
pull1D
Entries 92
Mean −0.0001946
Std Dev 0.2546

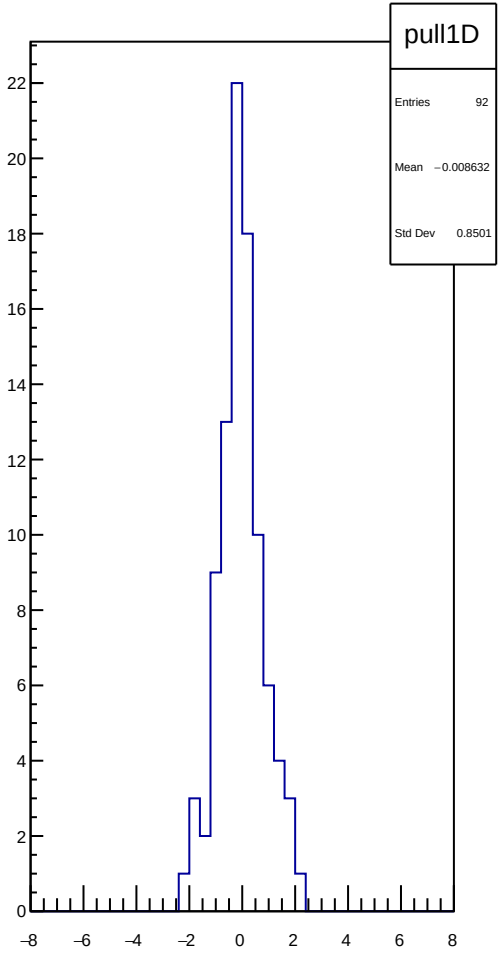

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 45.55 / 91
p0 −267 ± 0.3208
−255
−260
−265
−270
−275
pull
Entries 92
Mean 923.7
Std Dev 0
pull1D
Entries 92
Mean −0.005739
Std Dev 0.7036
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

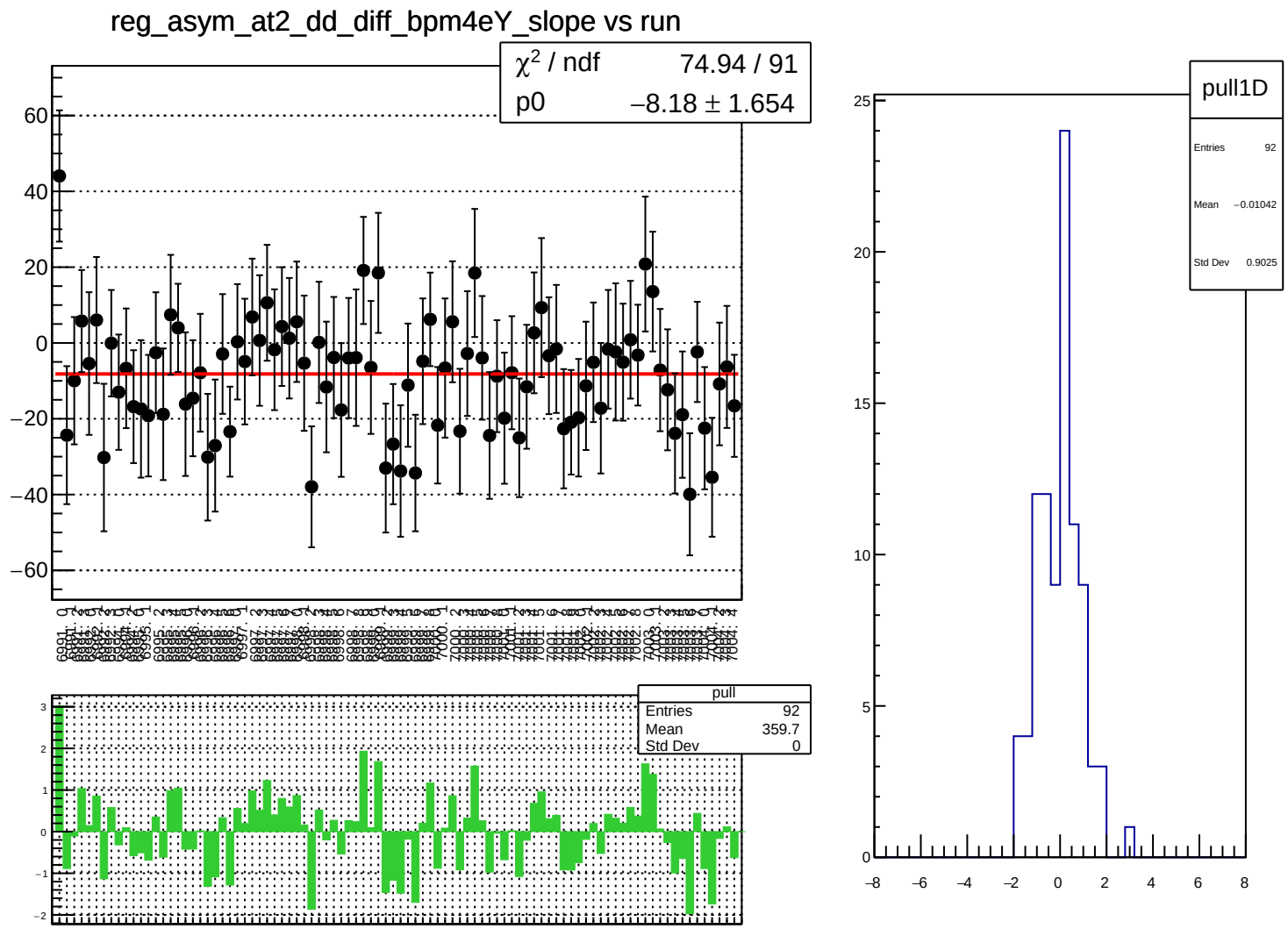

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 67.35 / 91
p0 45.22 ± 2.304
pull
Entries 92
Mean −245.9
Std Dev 0

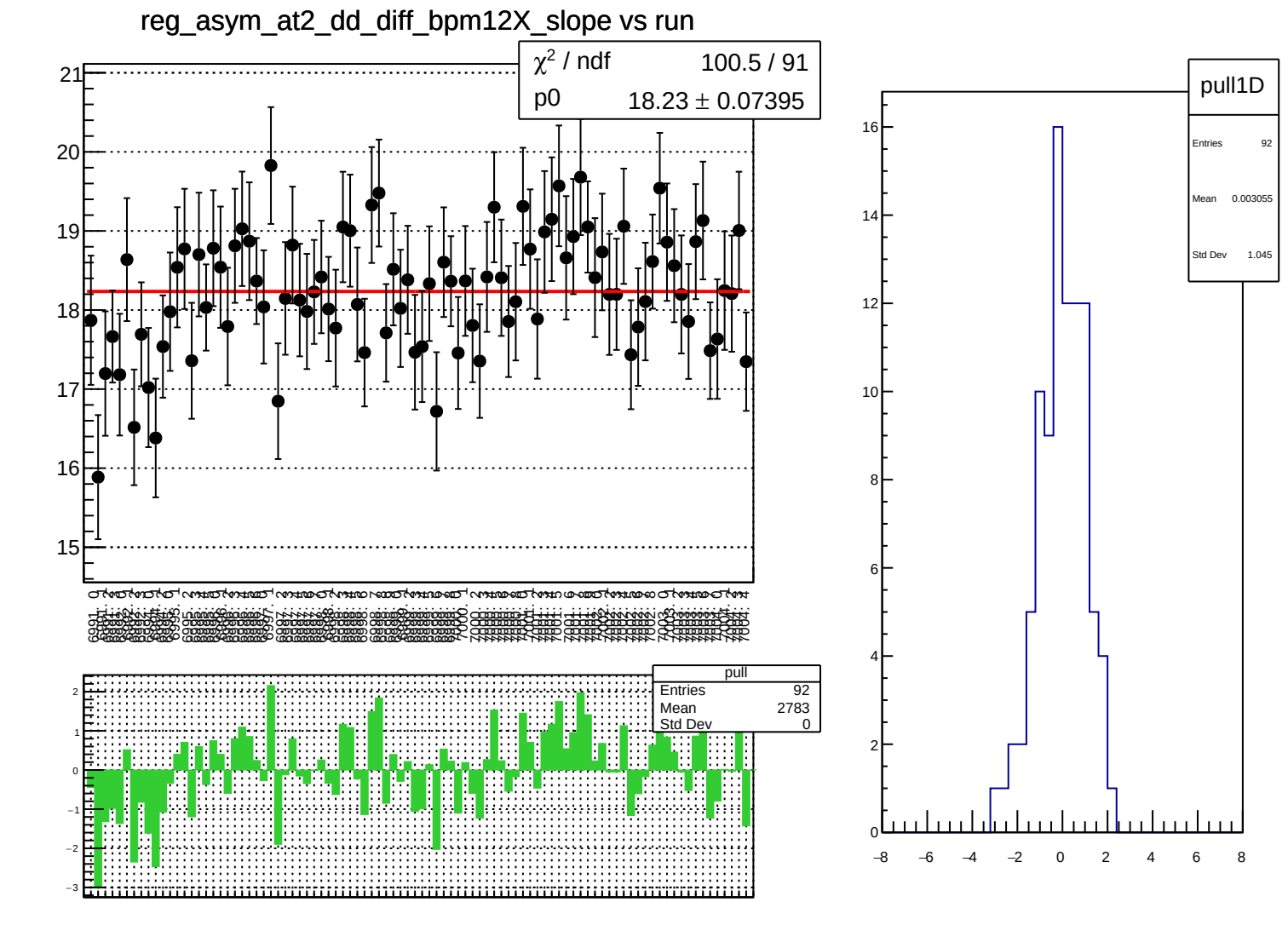

pull1D
Entries 92
Mean 0.008297
Std Dev 0.8556

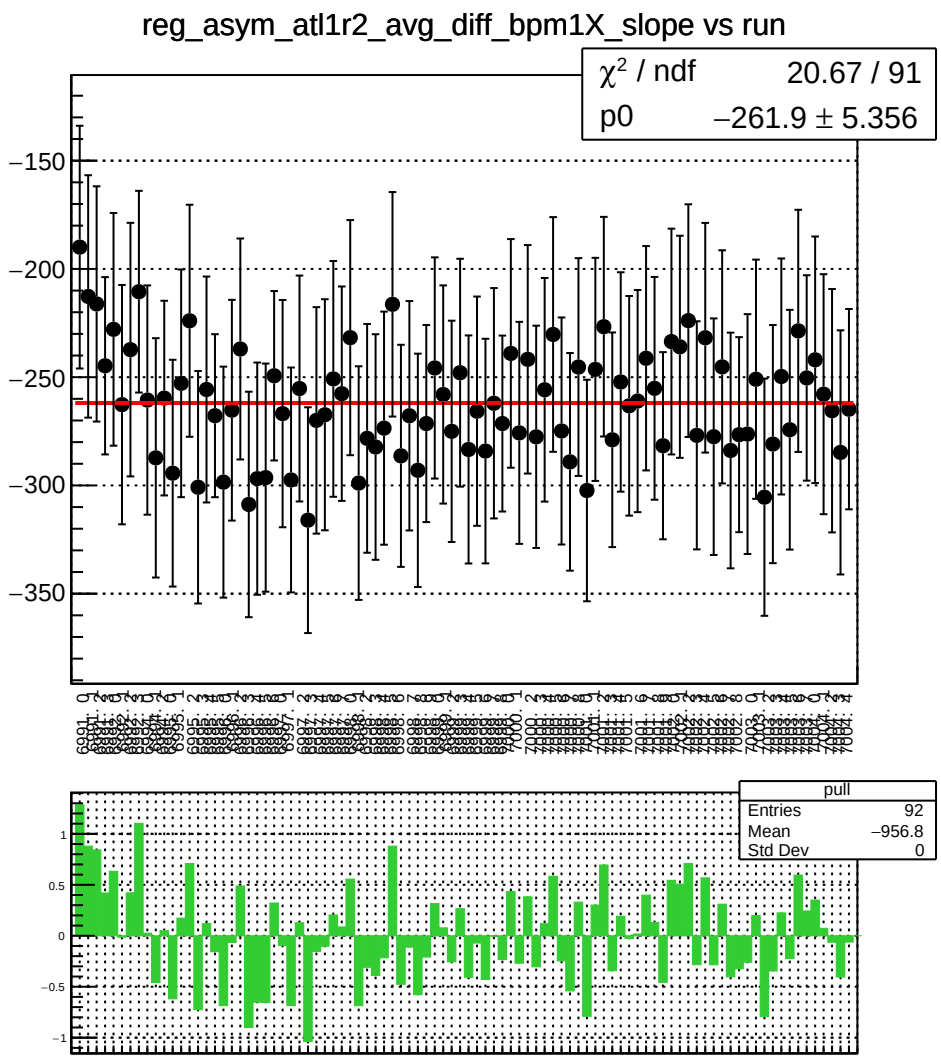

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.48 / 91
p0 −0.3762 ± 1.574
pull
Entries 92
Mean 194.9
Std Dev 0
pull1D
Entries 92
Mean 0.01458
Std Dev 0.9117

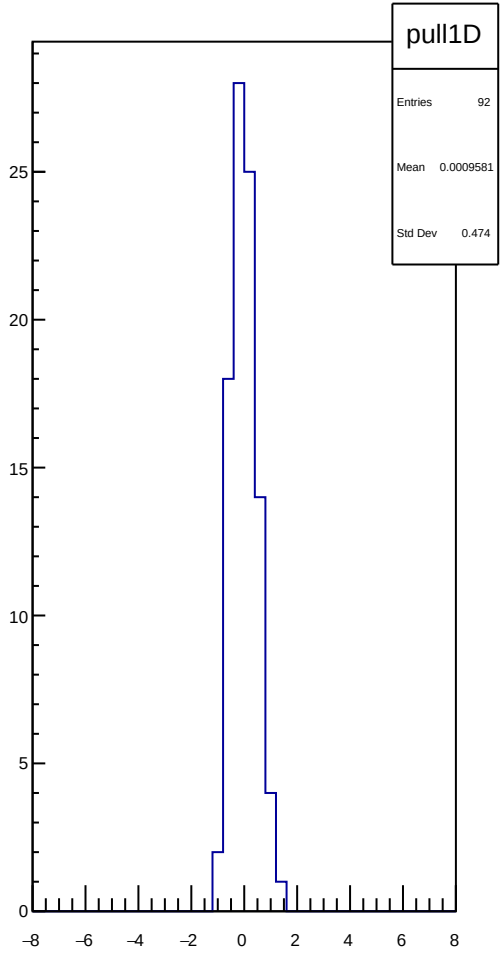

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.49 / 91
p0 41.53 ± 2.124
pull
Entries 92
Mean −169.8
Std Dev 0

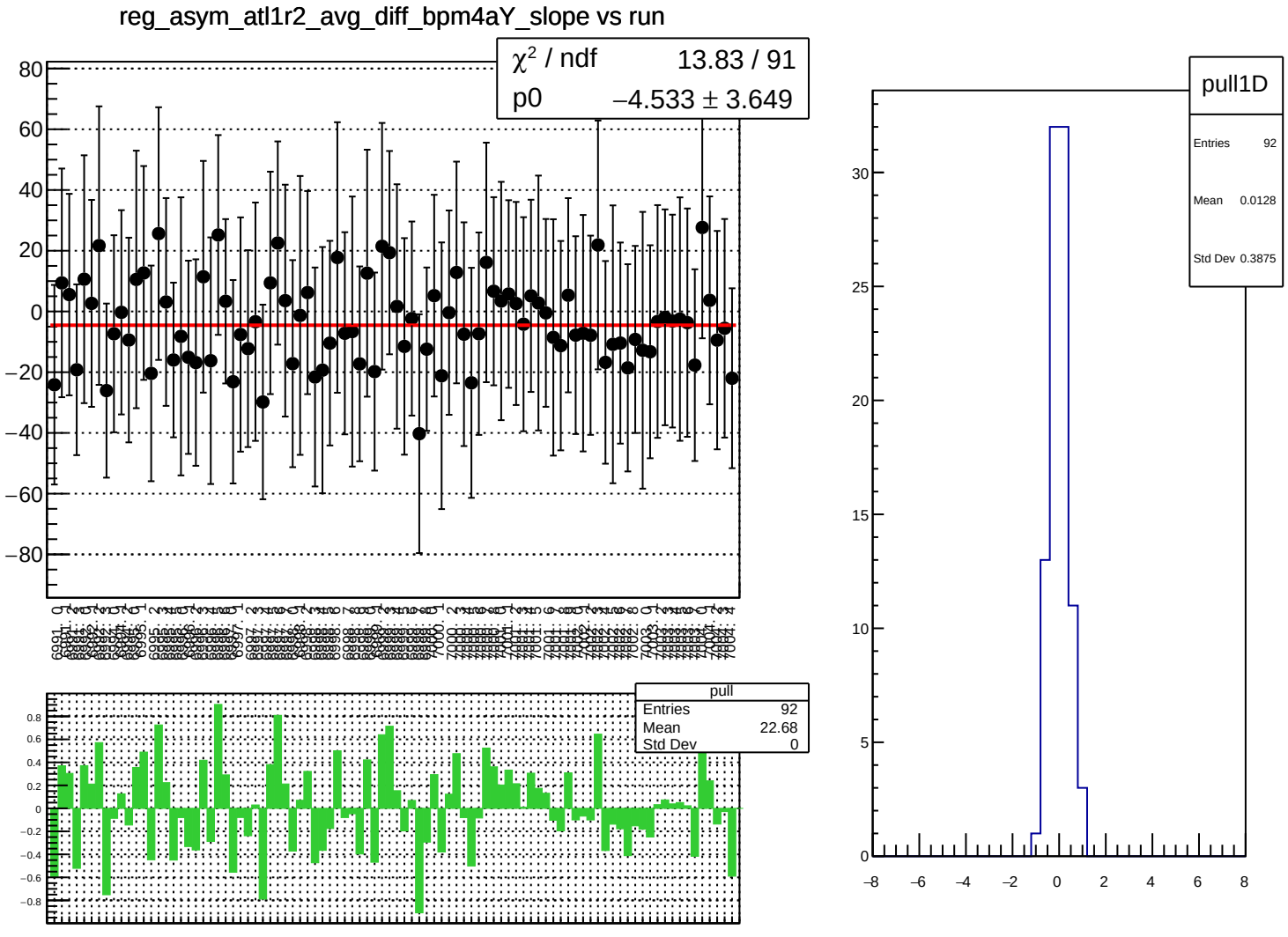

pull1D
Entries 92
Mean −0.008632
Std Dev 0.8501

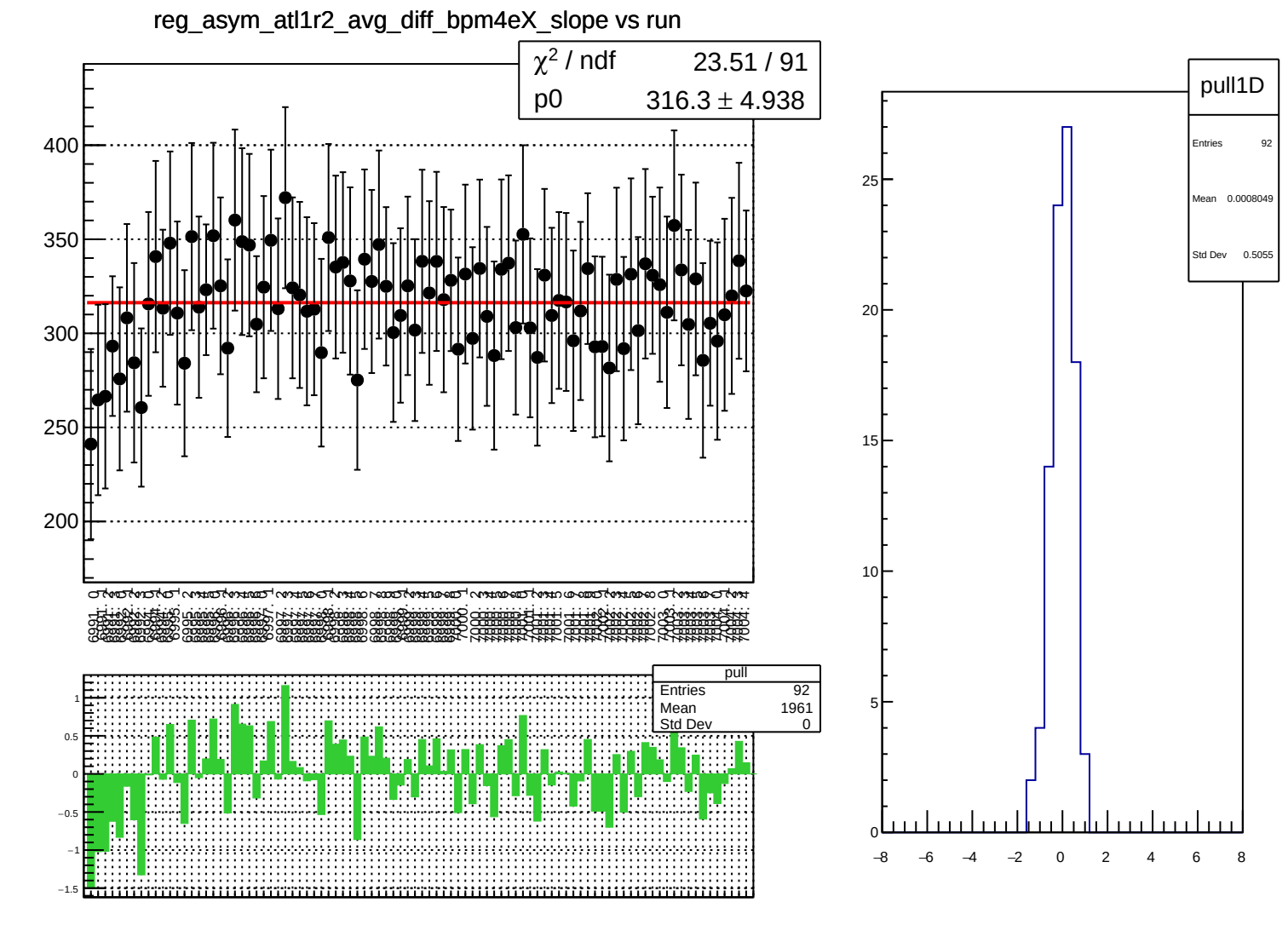

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.94 / 91
p0 −8.18 ± 1.654
pull
Entries 92
Mean 359.7
Std Dev 0
pull1D
Entries 92
Mean −0.01042
Std Dev 0.9025

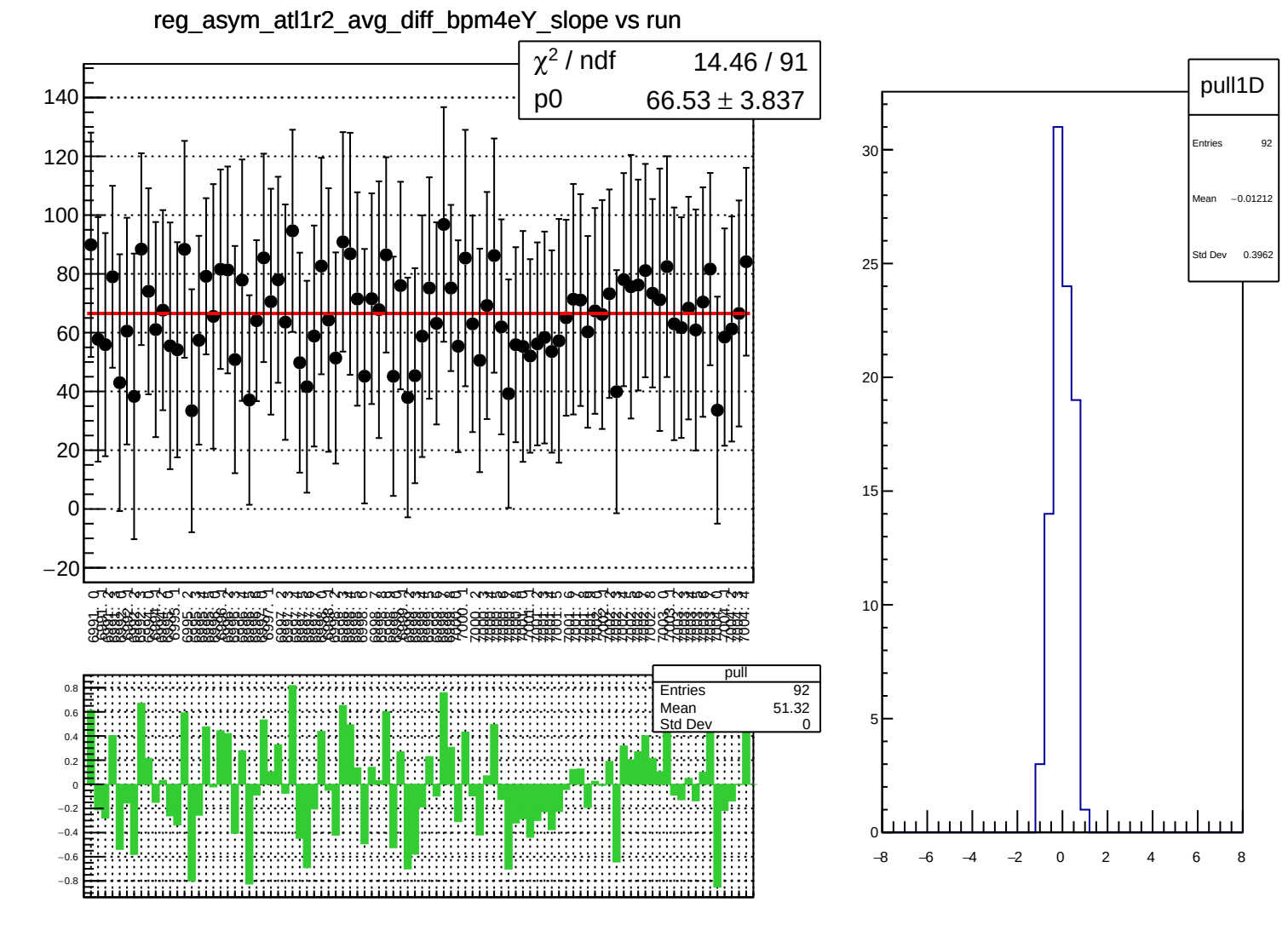

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 100.5 / 91
p0 18.23 ± 0.07395
pull
Entries 92
Mean 2783
Std Dev 0
pull1D
Entries 92
Mean 0.003055
Std Dev 1.045

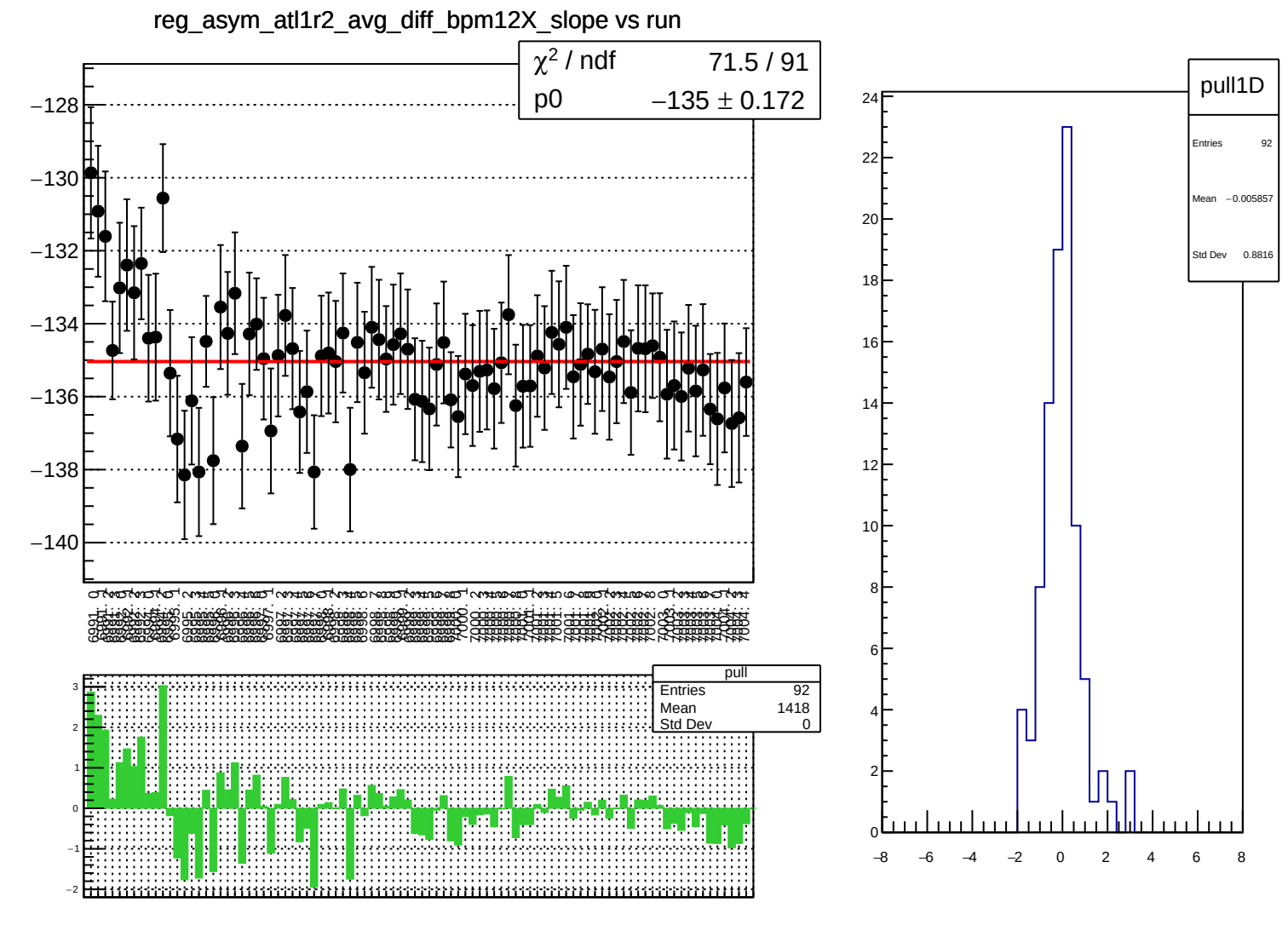

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 20.67 / 91
p0 −261.9 ± 5.356
−150
−200
−250
−300
−350
pull
Entries 92
Mean −956.8
Std Dev 0
1
0.5
0
−0.5
−1

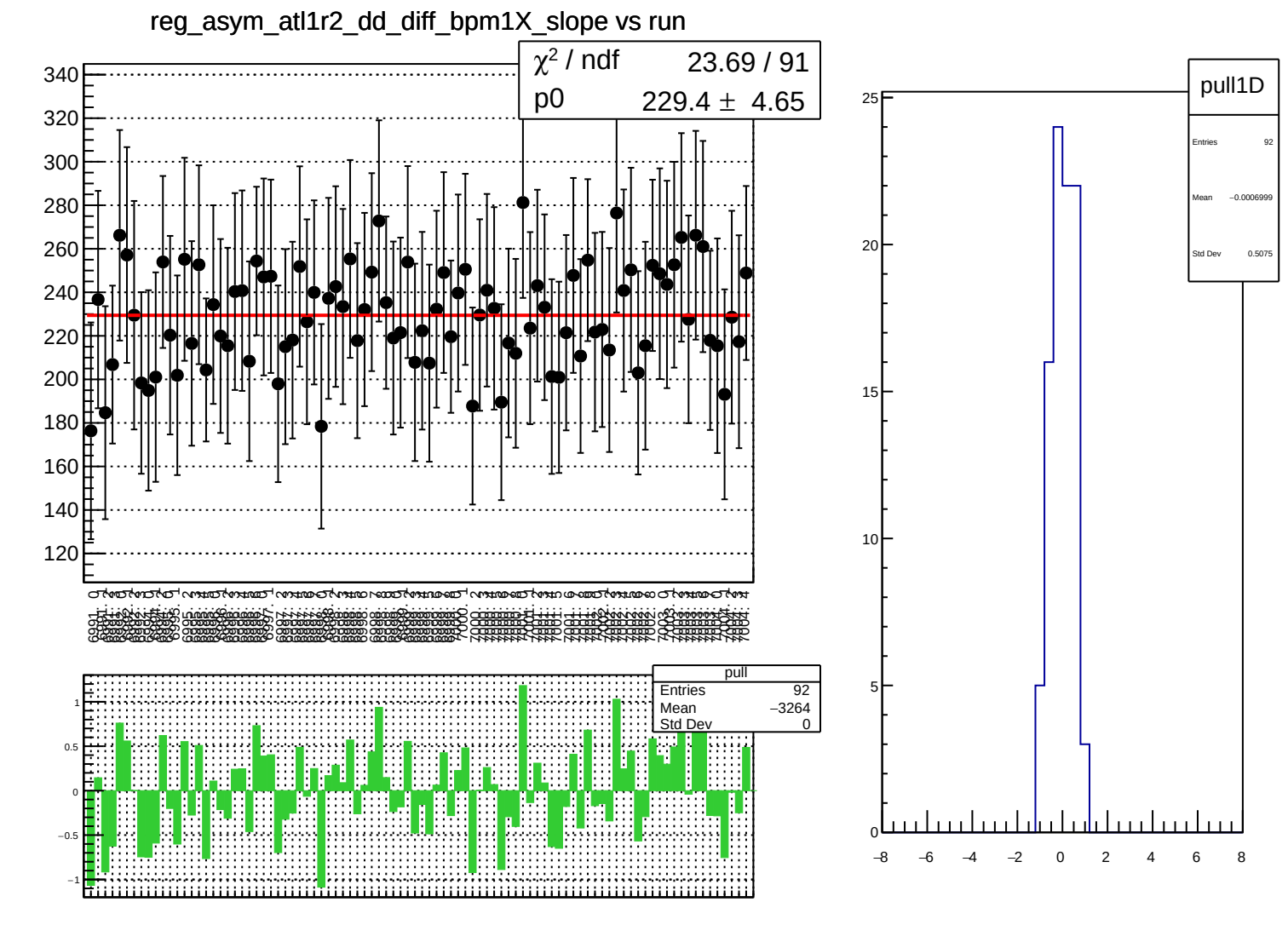

pull1D
Entries 92
Mean 0.0009581
Std Dev 0.474
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

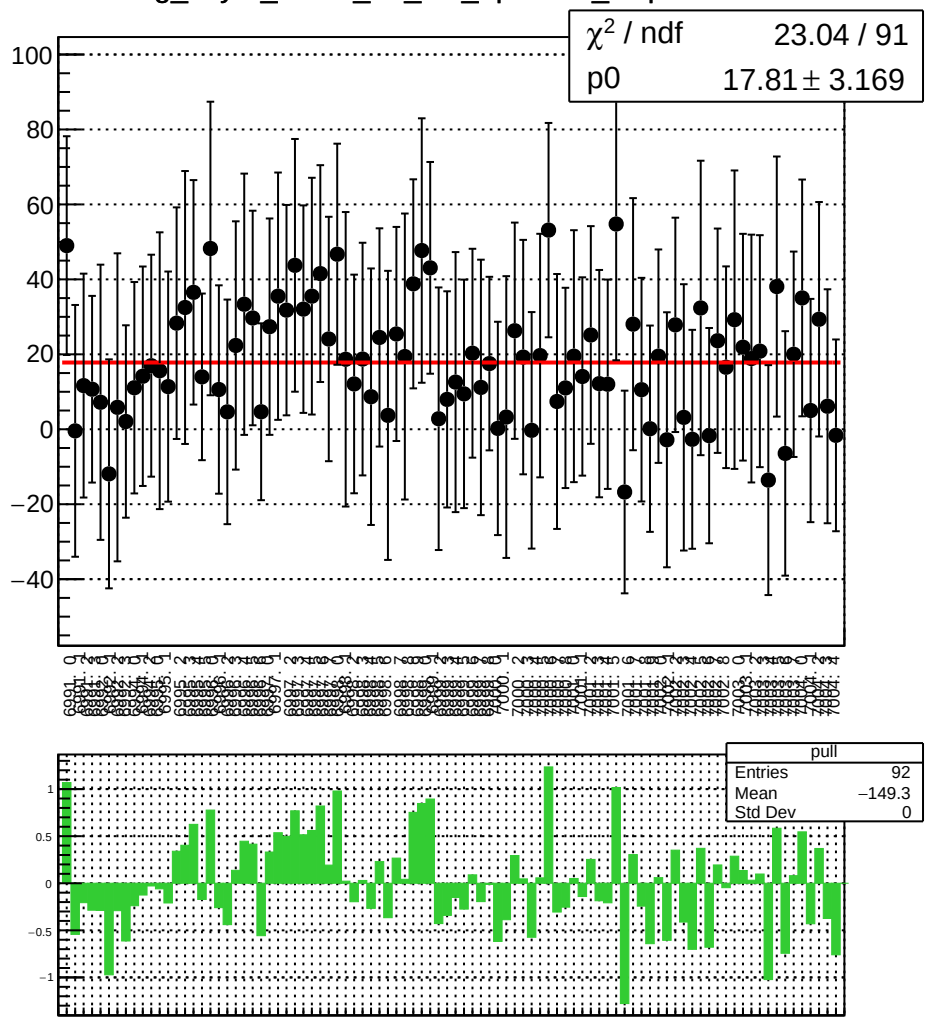

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.83 / 91
p0 −4.533 ± 3.649
pull
Entries 92
Mean 22.68
Std Dev 0
pull1D
Entries 92
Mean 0.0128
Std Dev 0.3875

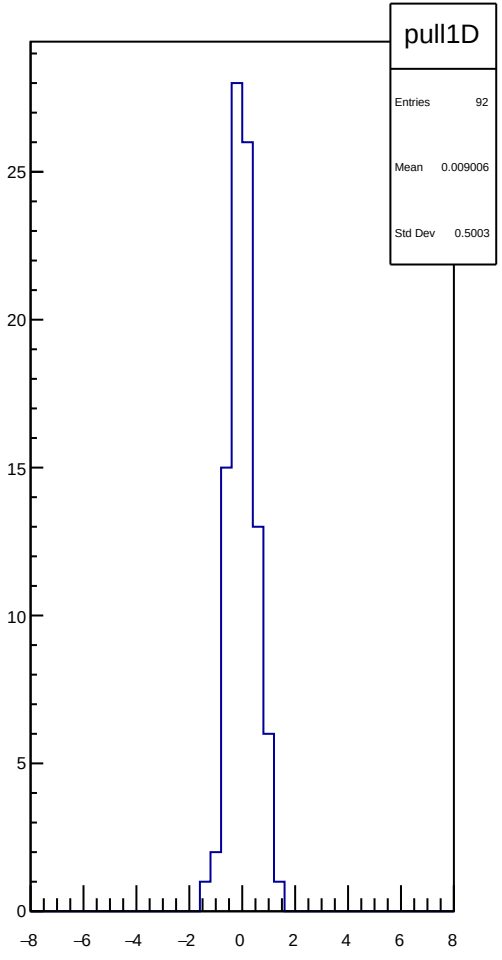

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.51 / 91
p0 316.3 ± 4.938
400
350
300
250
200
pull
Entries 92
Mean 1961
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.0008049
Std Dev 0.5055
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

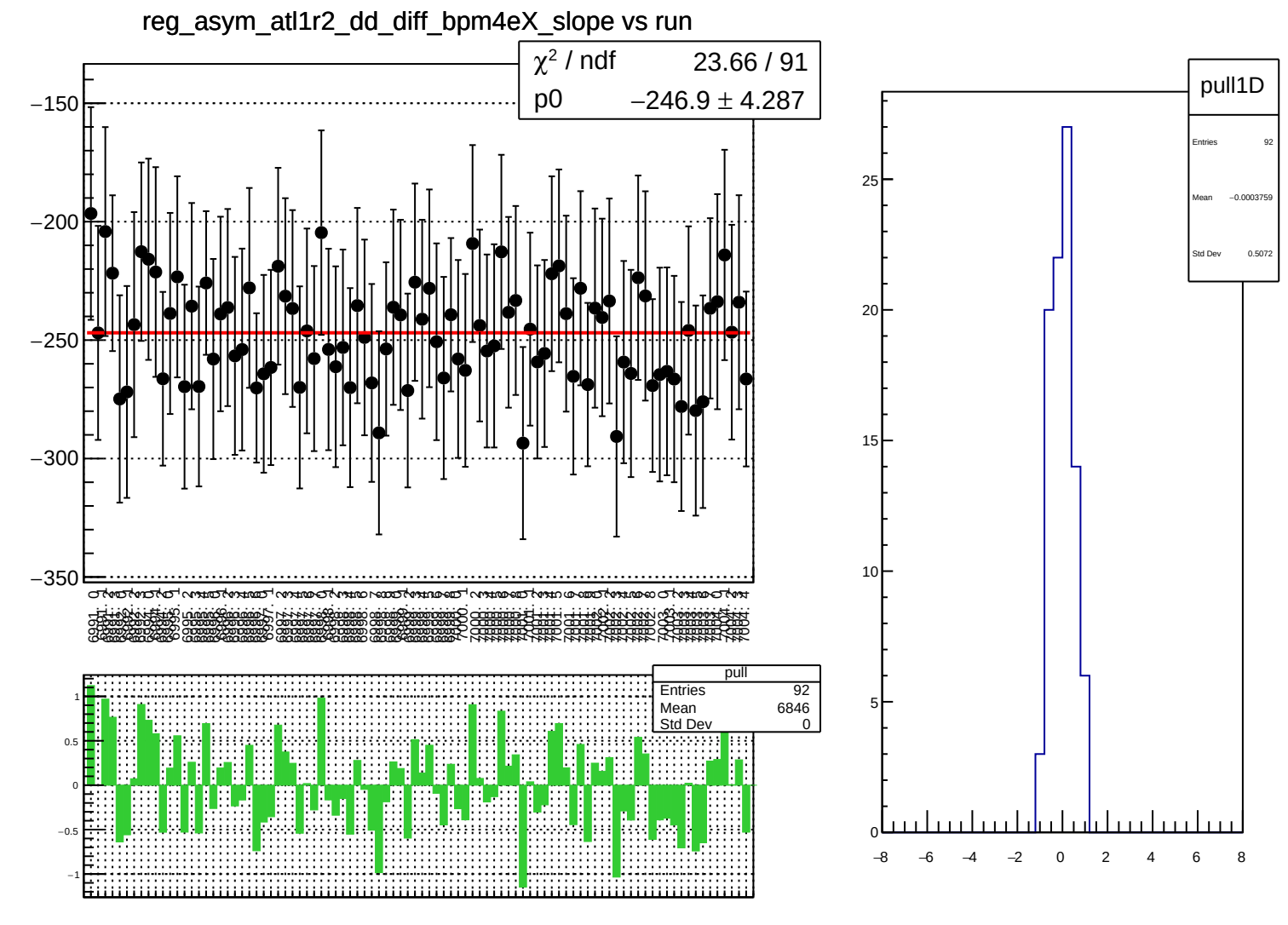

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.46 / 91
p0 66.53 ± 3.837
pull
Entries 92
Mean 51.32
Std Dev 0
pull1D
Entries 92
Mean −0.01212
Std Dev 0.3962

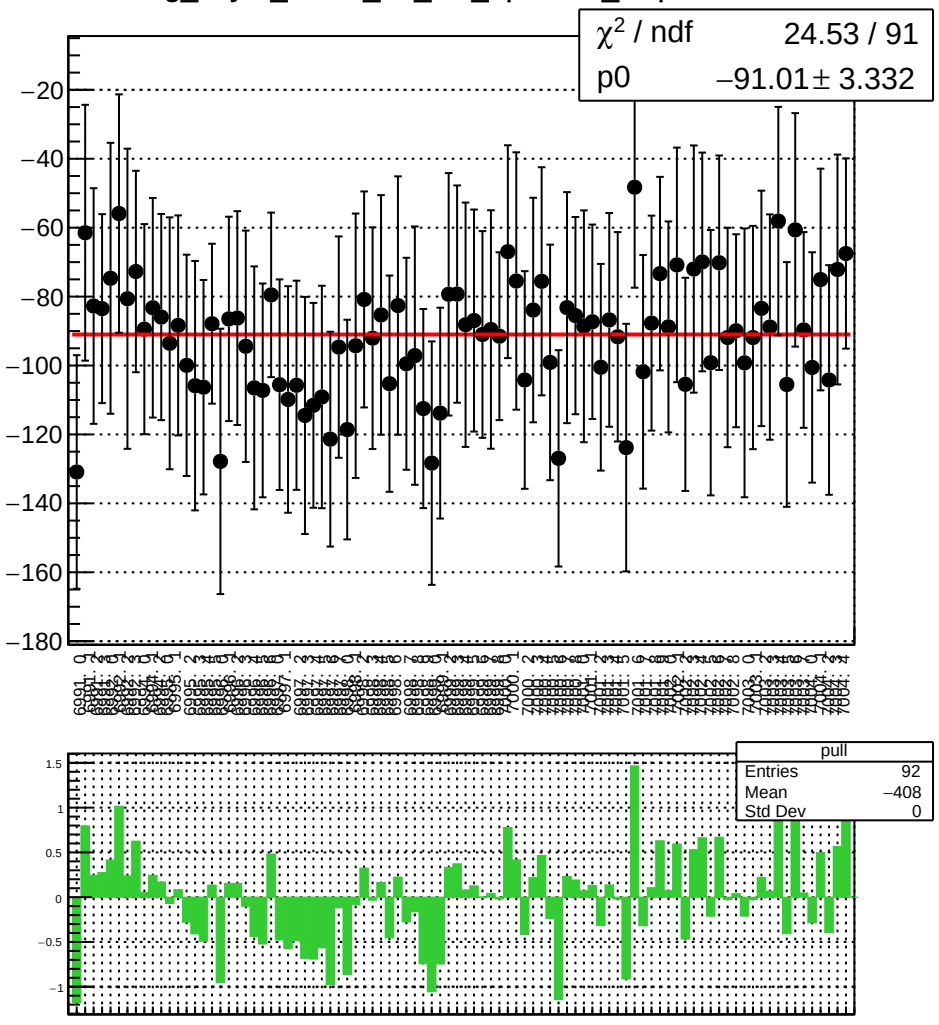

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 71.5 / 91
p0 −135 ± 0.172
−128
−130
−132
−134
−136
−138
−140
pull
Entries 92
Mean 1418
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.005857
Std Dev 0.8816
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

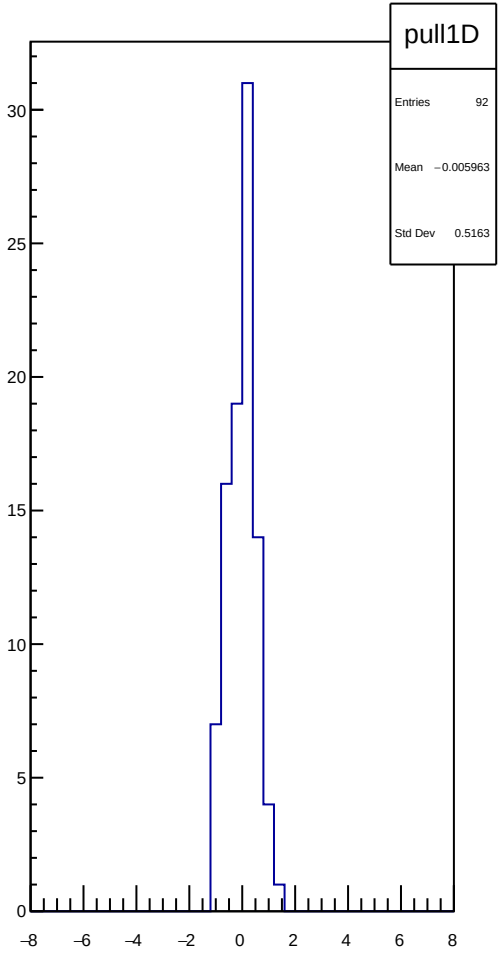

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 23.69 / 91
p0 229.4 ± 4.65
pull
Entries 92
Mean −3264
Std Dev 0
pull1D
Entries 92
Mean −0.0006999
Std Dev 0.5075

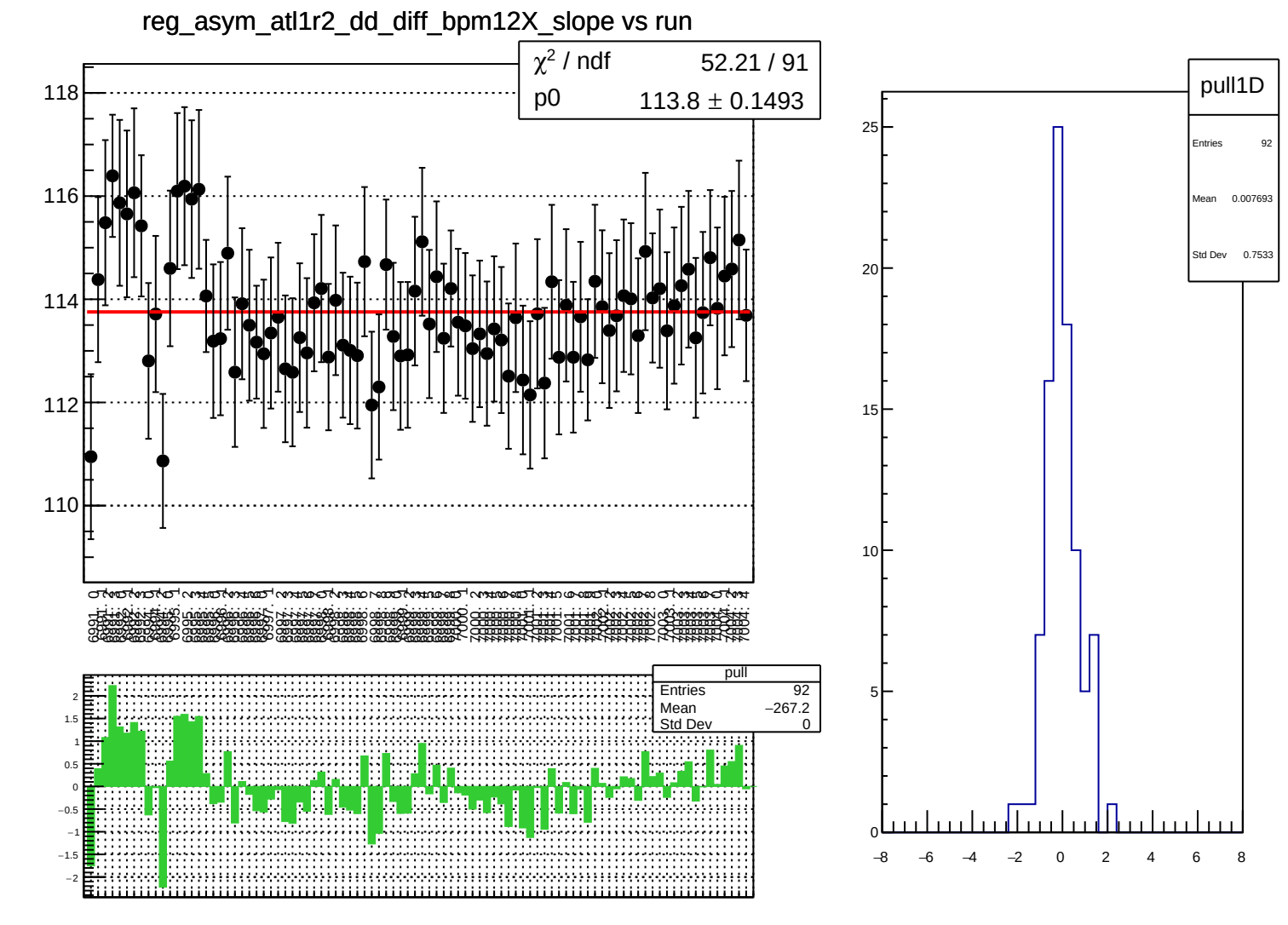

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.04 / 91
p0 17.81 ± 3.169
pull
Entries 92
Mean −149.3
Std Dev 0

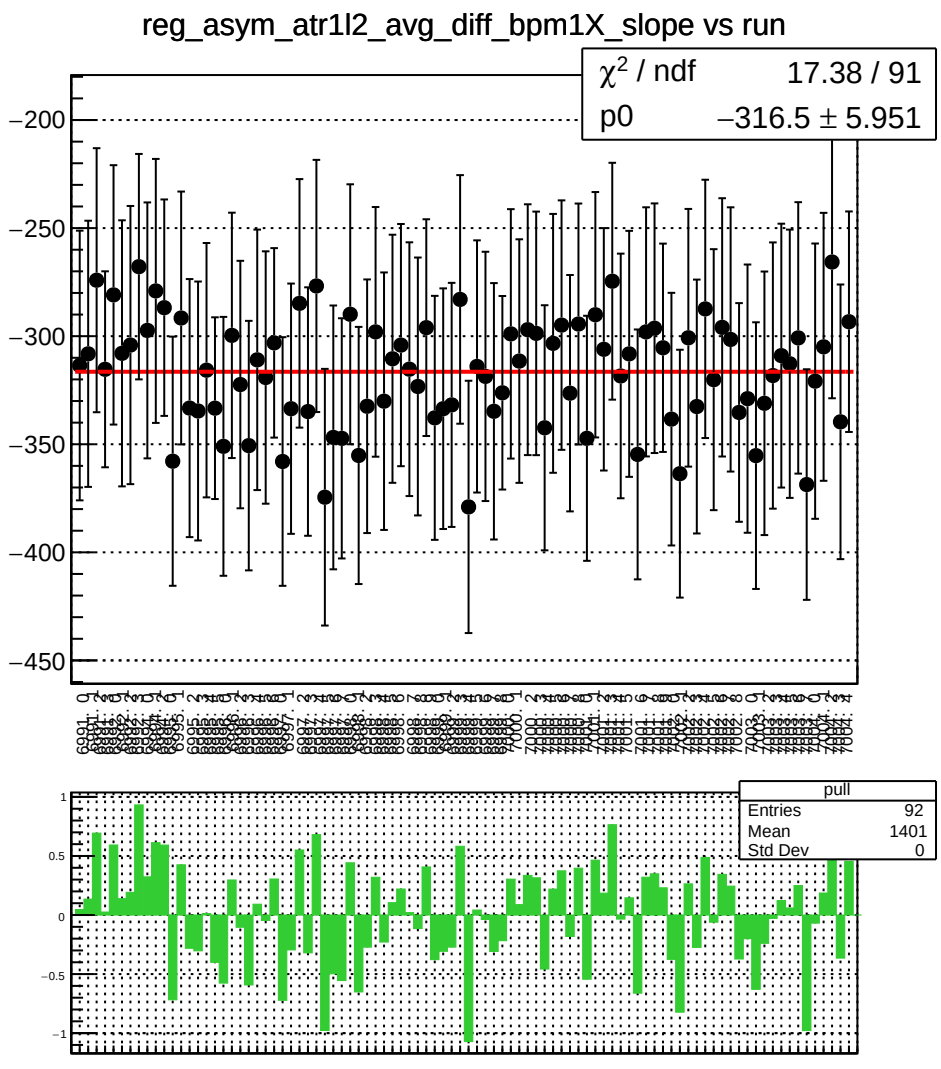

pull1D
Entries 92
Mean 0.009006
Std Dev 0.5003

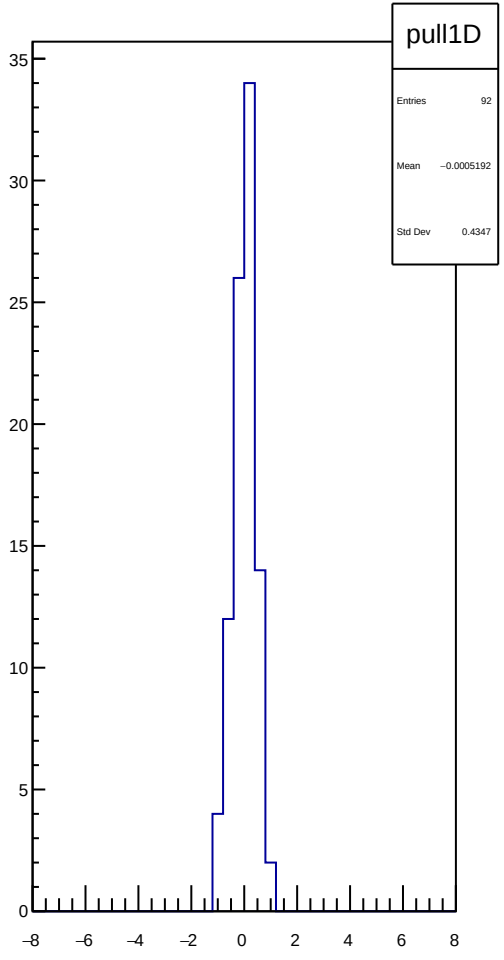

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.66 / 91
p0 −246.9 ± 4.287
−150
−200
−250
−300
−350
pull
Entries 92
Mean 6846
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.0003759
Std Dev 0.5072
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

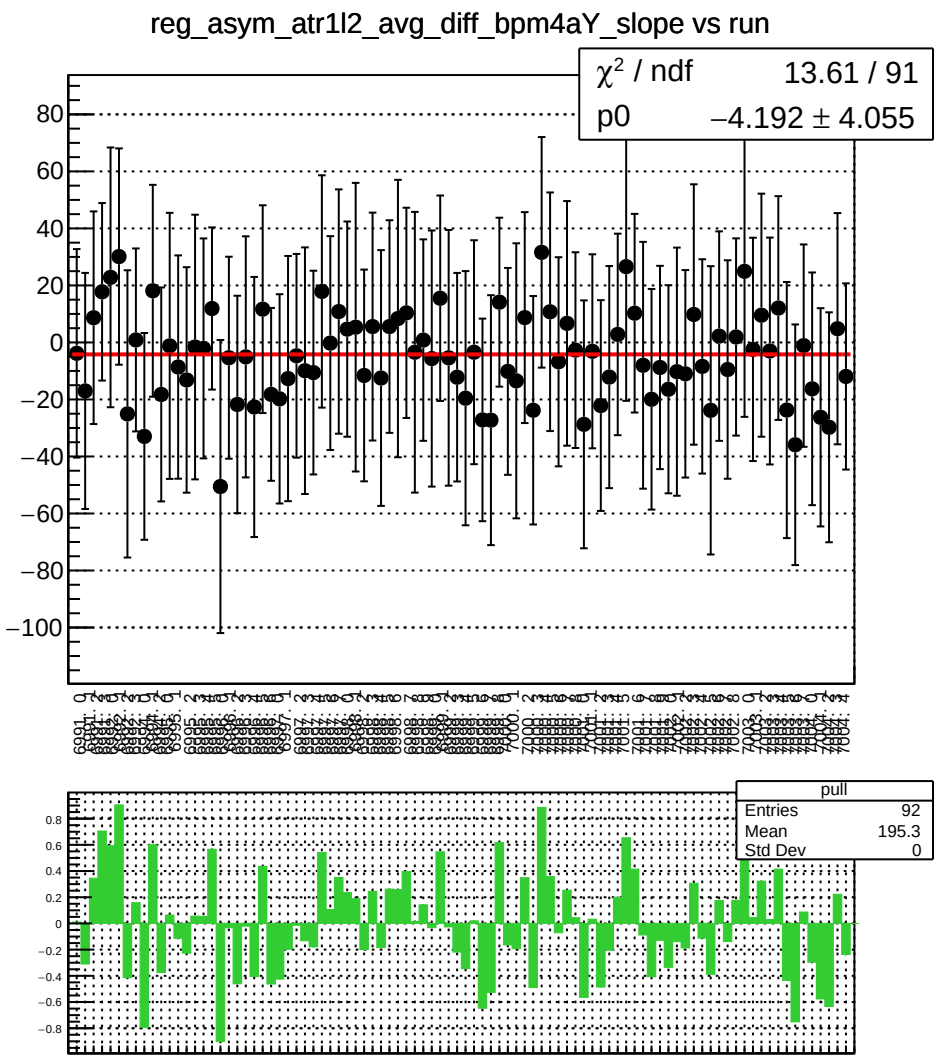

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.53 / 91
p0 −91.01 ± 3.332
pull
Entries 92
Mean −408
Std Dev 0

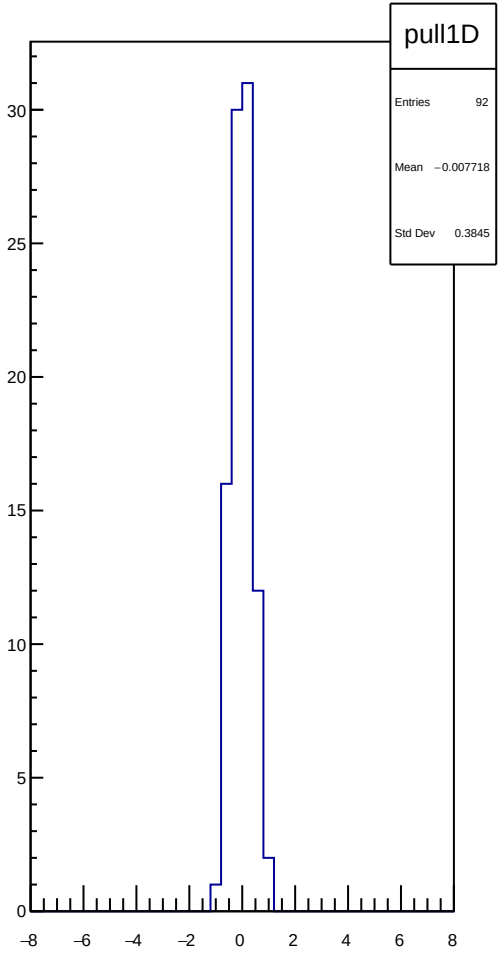

pull1D
Entries 92
Mean −0.005963
Std Dev 0.5163

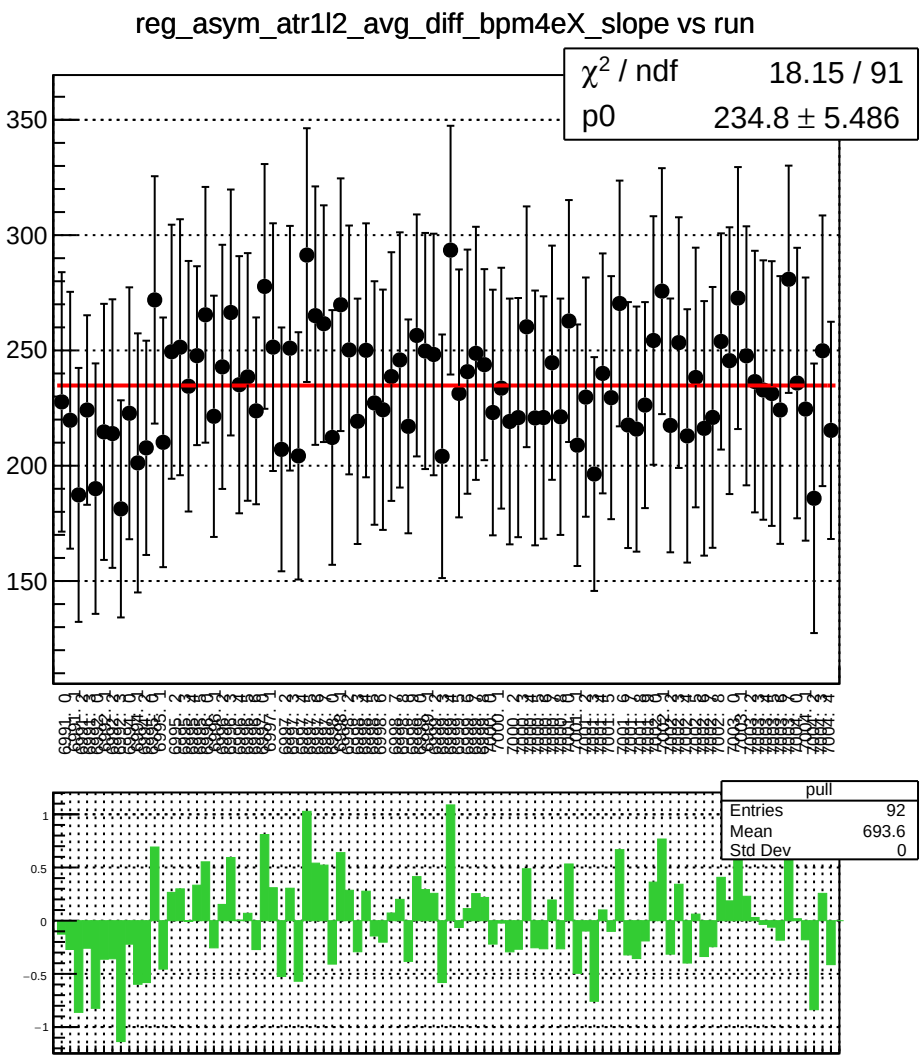

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 52.21 / 91
p0 113.8 ± 0.1493
118
116
114
112
110
pull
Entries 92
Mean −267.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.007693
Std Dev 0.7533
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

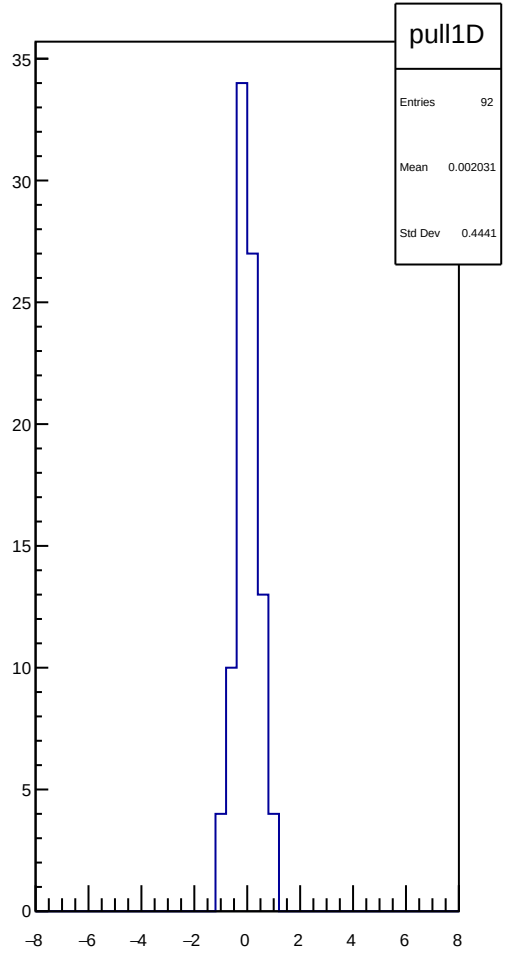

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 17.38 / 91
p0 −316.5 ± 5.951
−200
−250
−300
−350
−400
−450
pull
Entries 92
Mean 1401
Std Dev 0
1
0.5
0
−0.5
−1

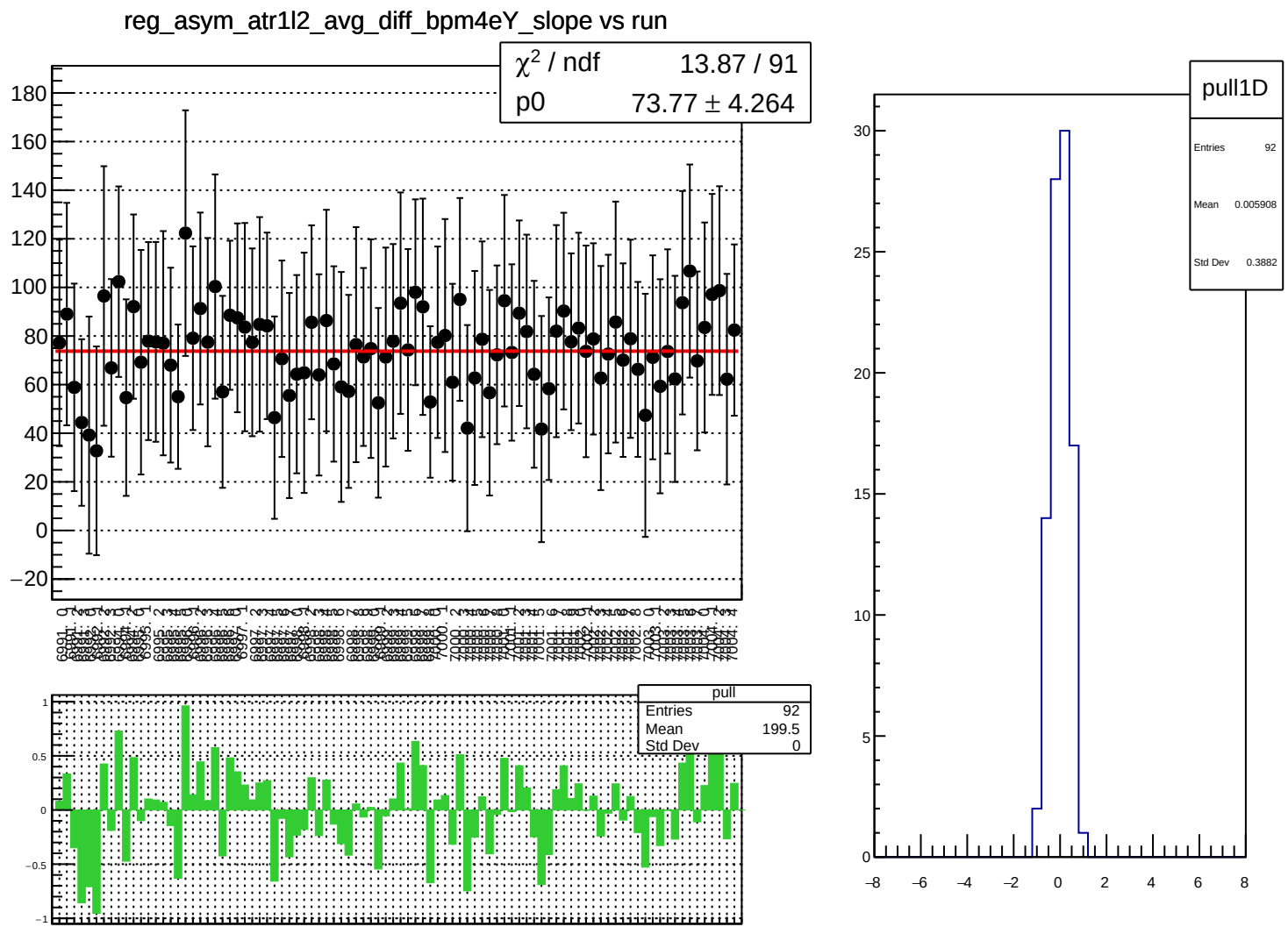

pull1D
Entries 92
Mean −0.0005192
Std Dev 0.4347
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

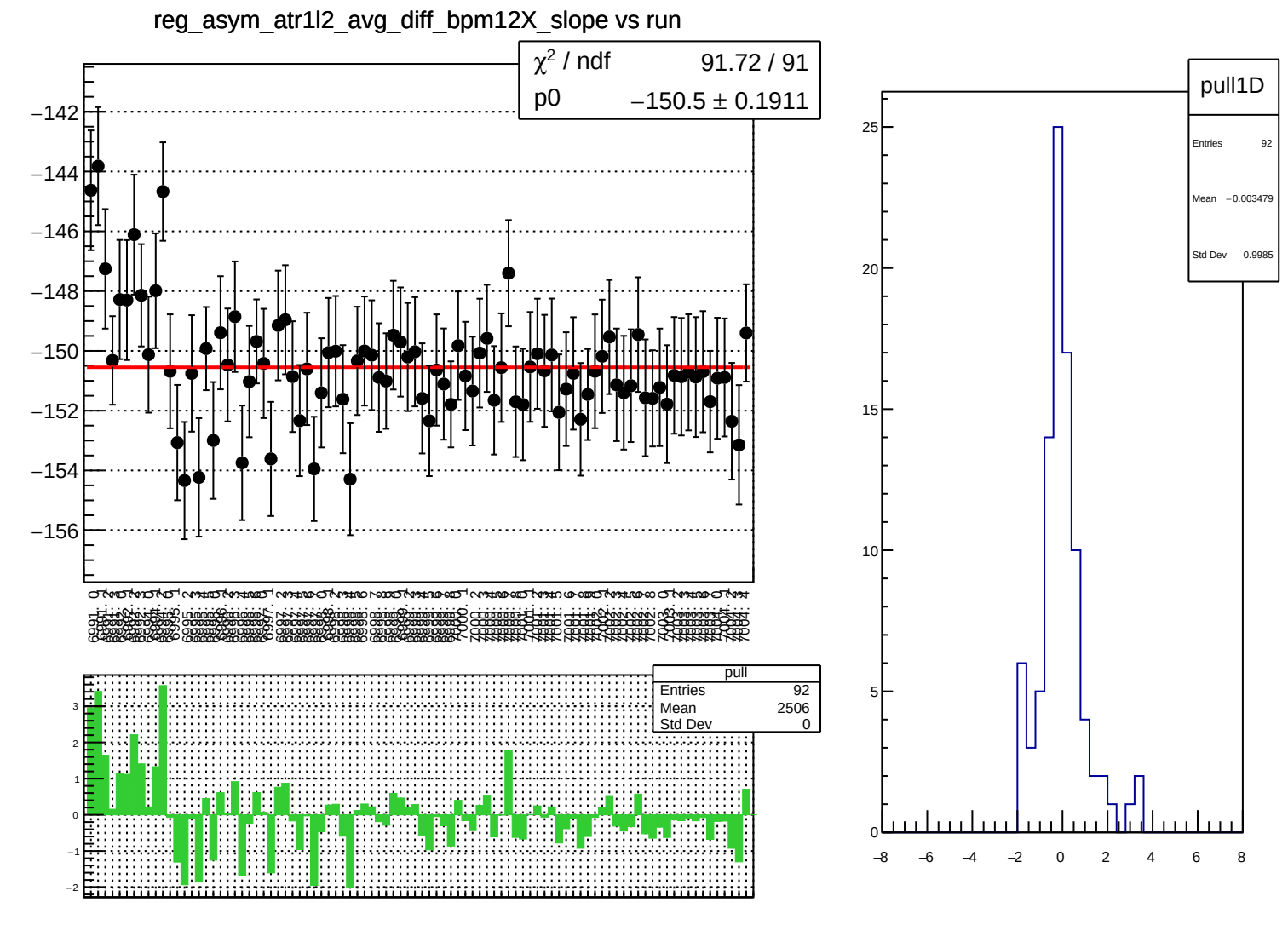

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.61 / 91
p0 −4.192 ± 4.055
pull
Entries 92
Mean 195.3
Std Dev 0

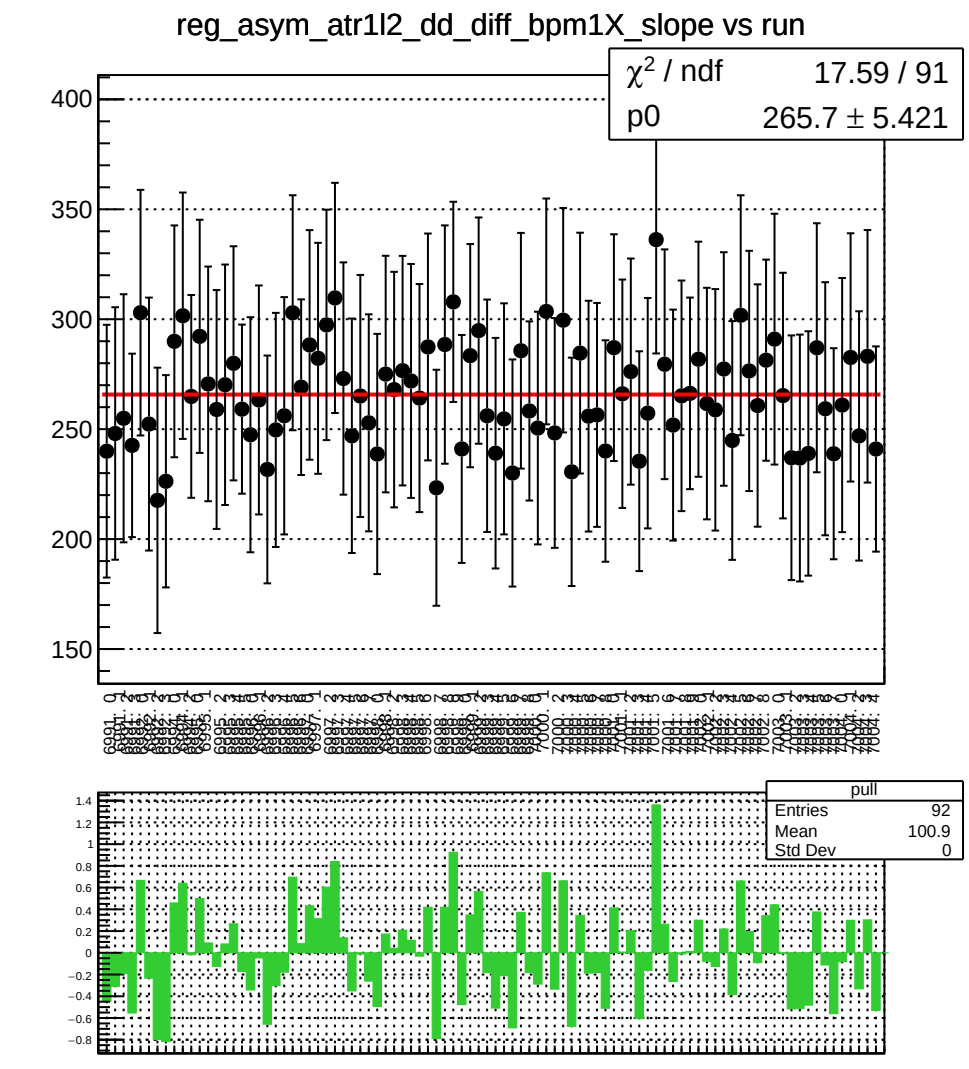

pull1D
Entries 92
Mean −0.007718
Std Dev 0.3845

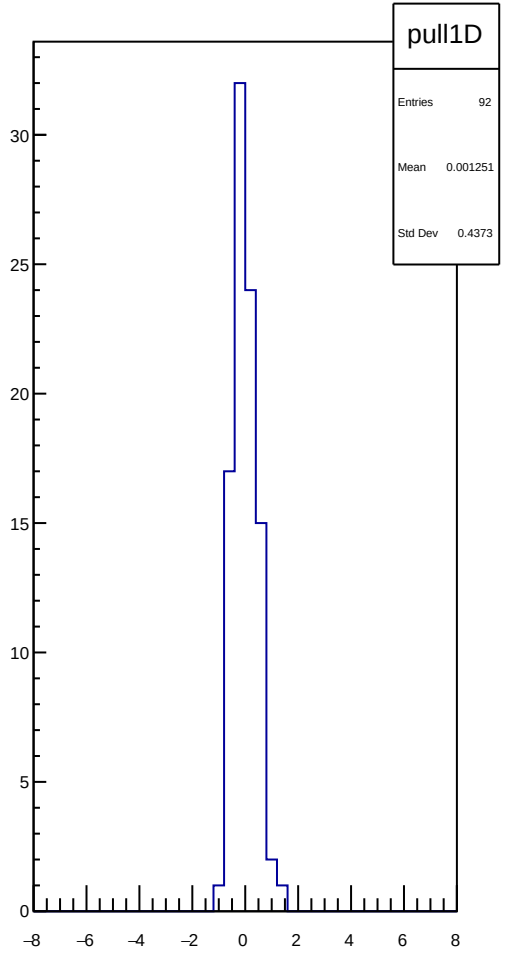

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.15 / 91
p0 234.8 ± 5.486
350
300
250
200
150
pull
Entries 92
Mean 693.6
Std Dev 0
1
0.5
0
−0.5
−1

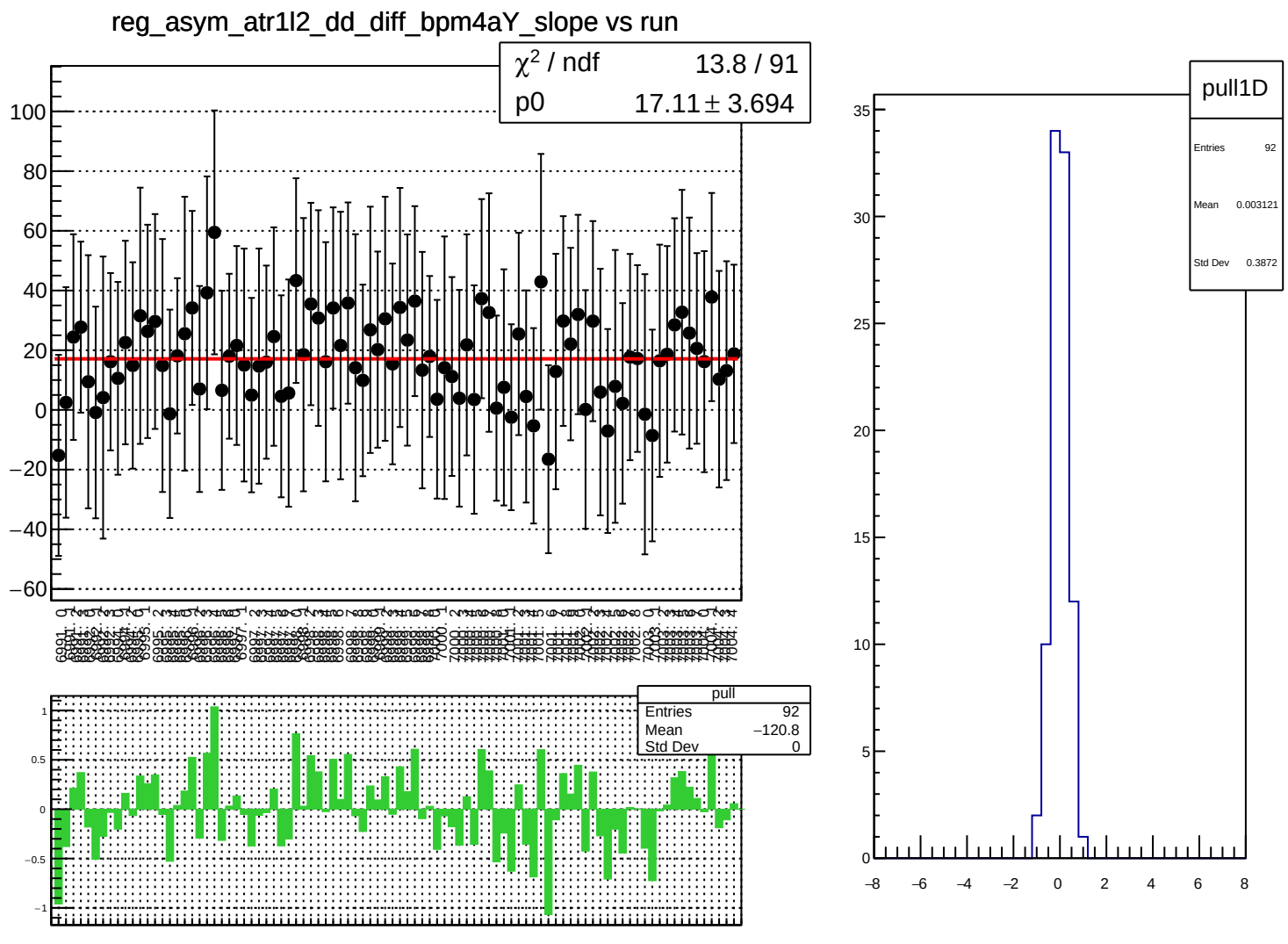

pull1D
Entries 92
Mean 0.002031
Std Dev 0.4441
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

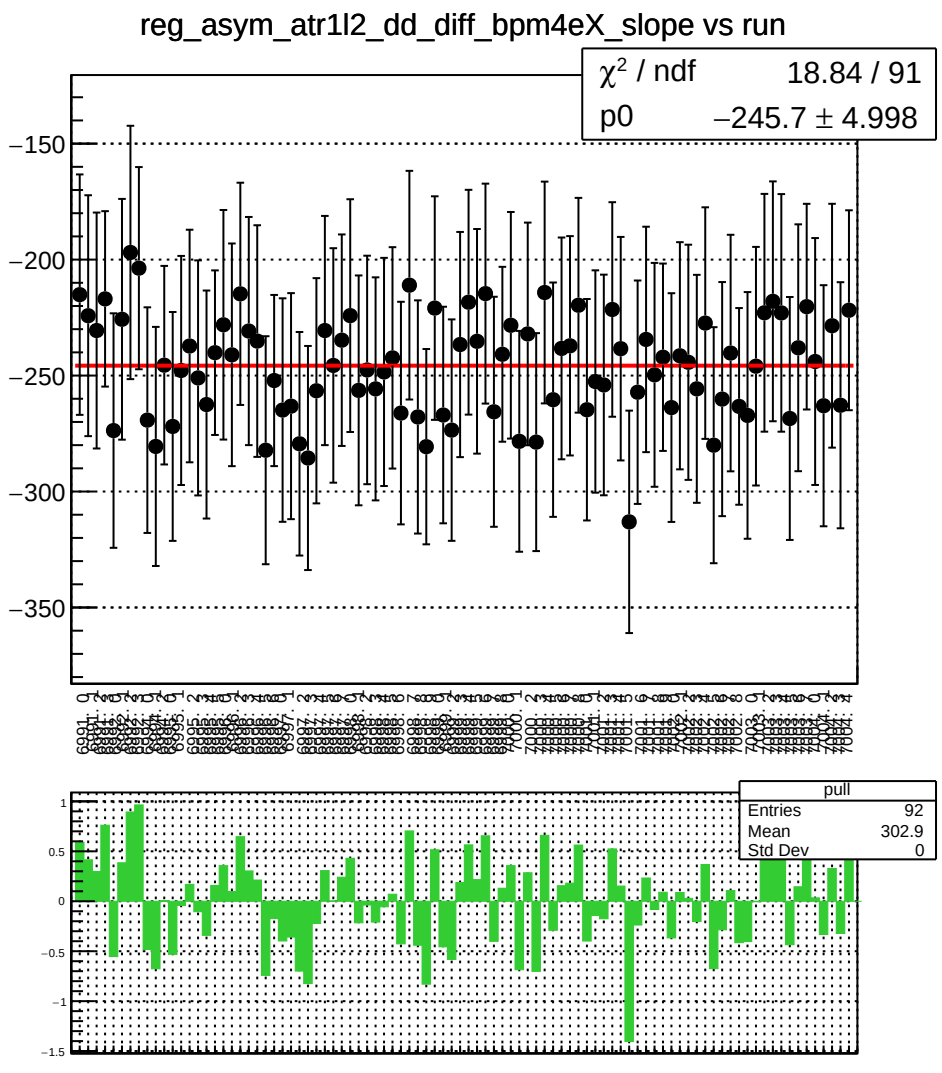

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.87 / 91
p0 73.77 ± 4.264
pull
Entries 92
Mean 199.5
Std Dev 0
pull1D
Entries 92
Mean 0.005908
Std Dev 0.3882

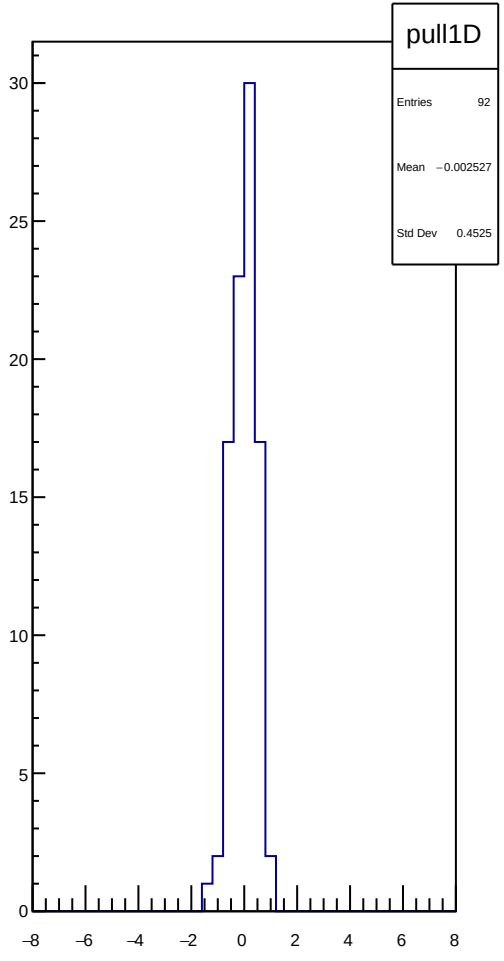

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 91.72 / 91
p0 −150.5 ± 0.1911
−142
−144
−146
−148
−150
−152
−154
−156
pull
Entries 92
Mean 2506
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003479
Std Dev 0.9985
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

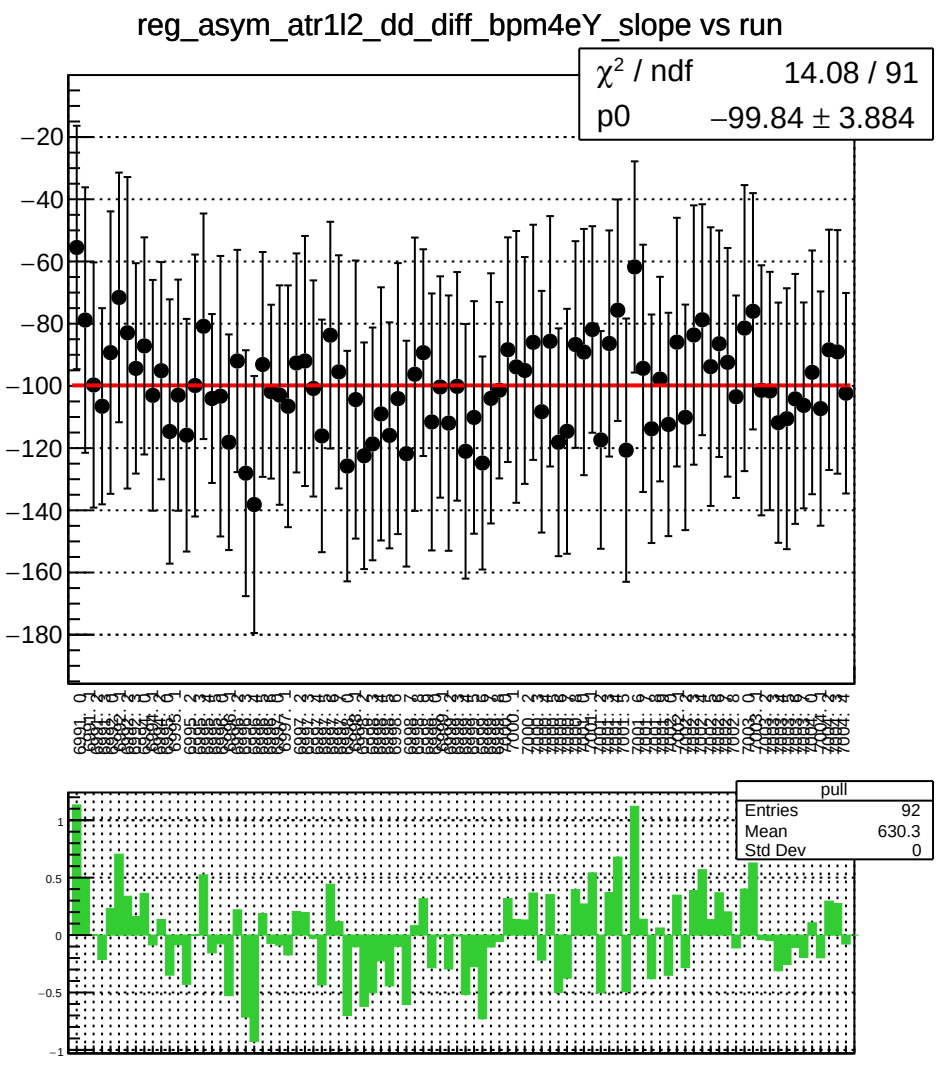

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 17.59 / 91
p0 265.7 ± 5.421
400
350
300
250
200
150
pull
Entries 92
Mean 100.9
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

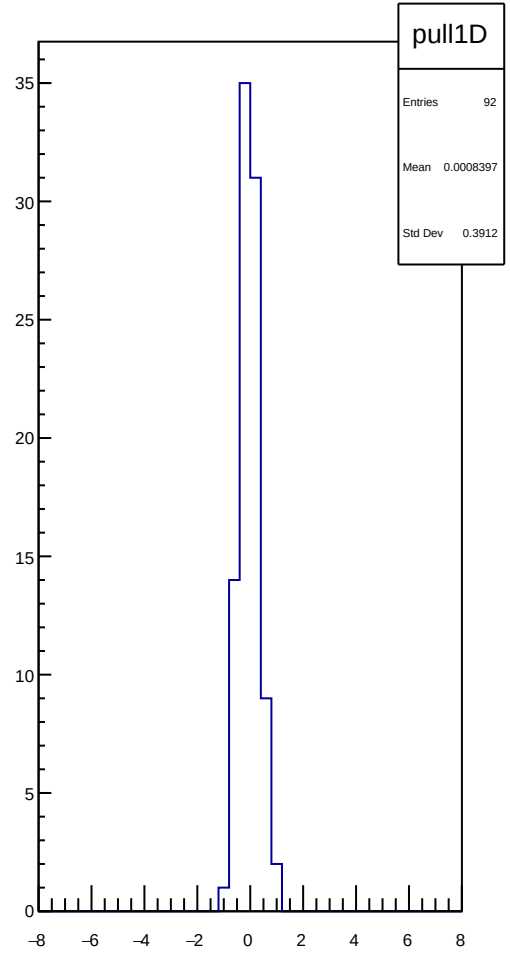

pull1D
Entries 92
Mean 0.001251
Std Dev 0.4373
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

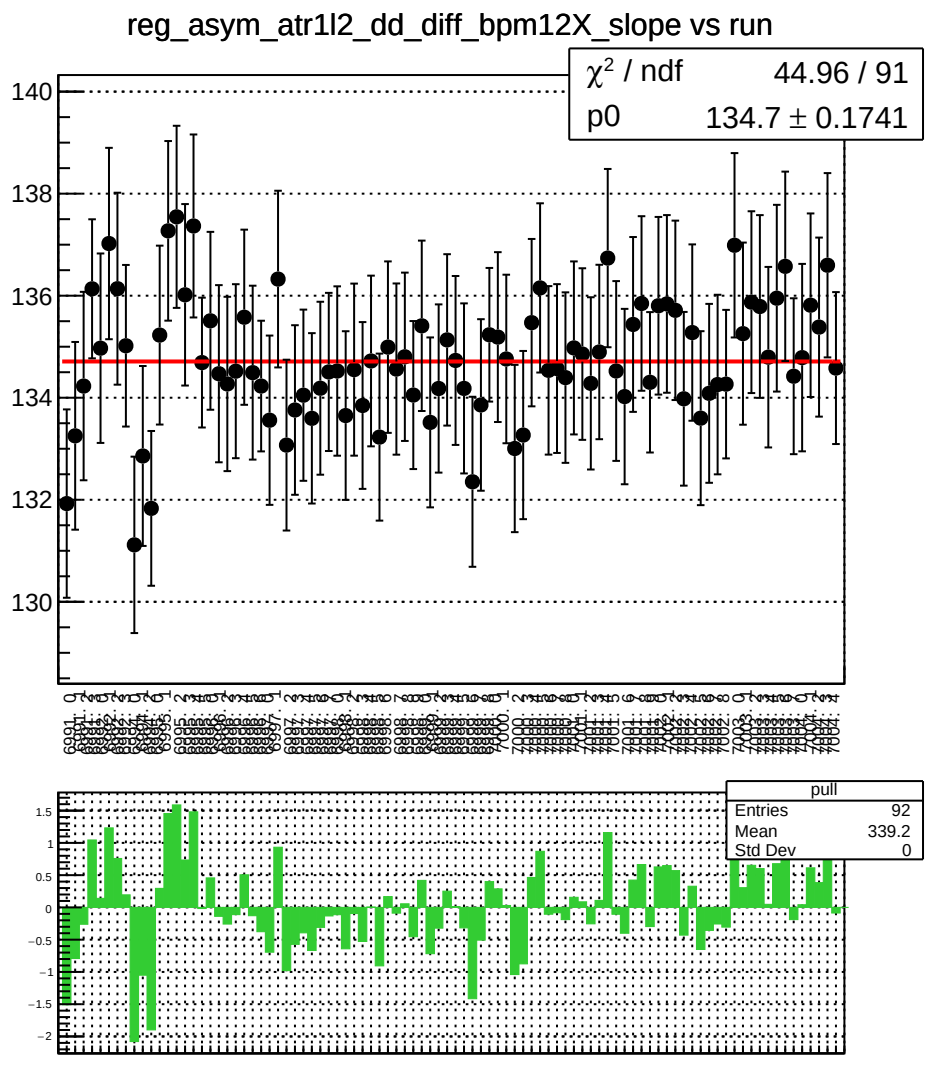

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.8 / 91
p0 17.11 ± 3.694
pull
Entries 92
Mean −120.8
Std Dev 0
pull1D
Entries 92
Mean 0.003121
Std Dev 0.3872

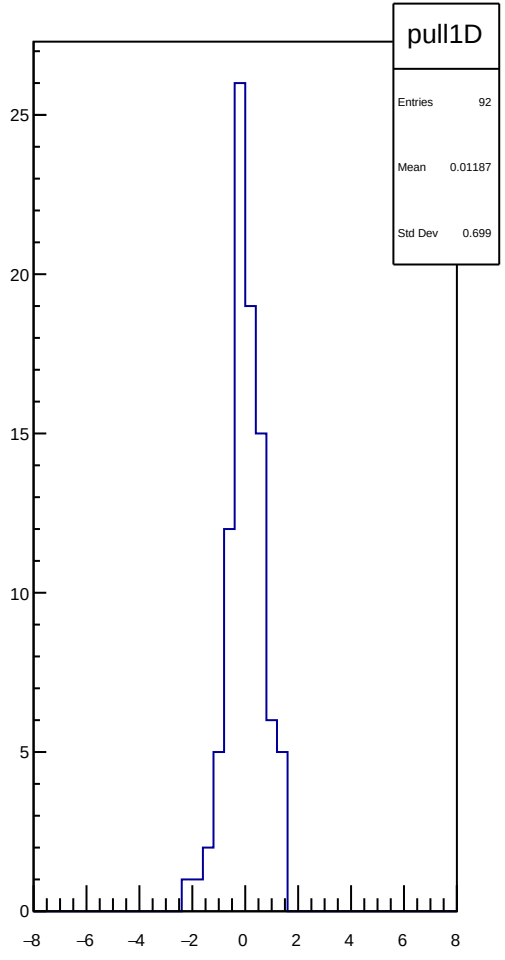

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.84 / 91
p0 −245.7 ± 4.998
−150
−200
−250
−300
−350
pull
Entries 92
Mean 302.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

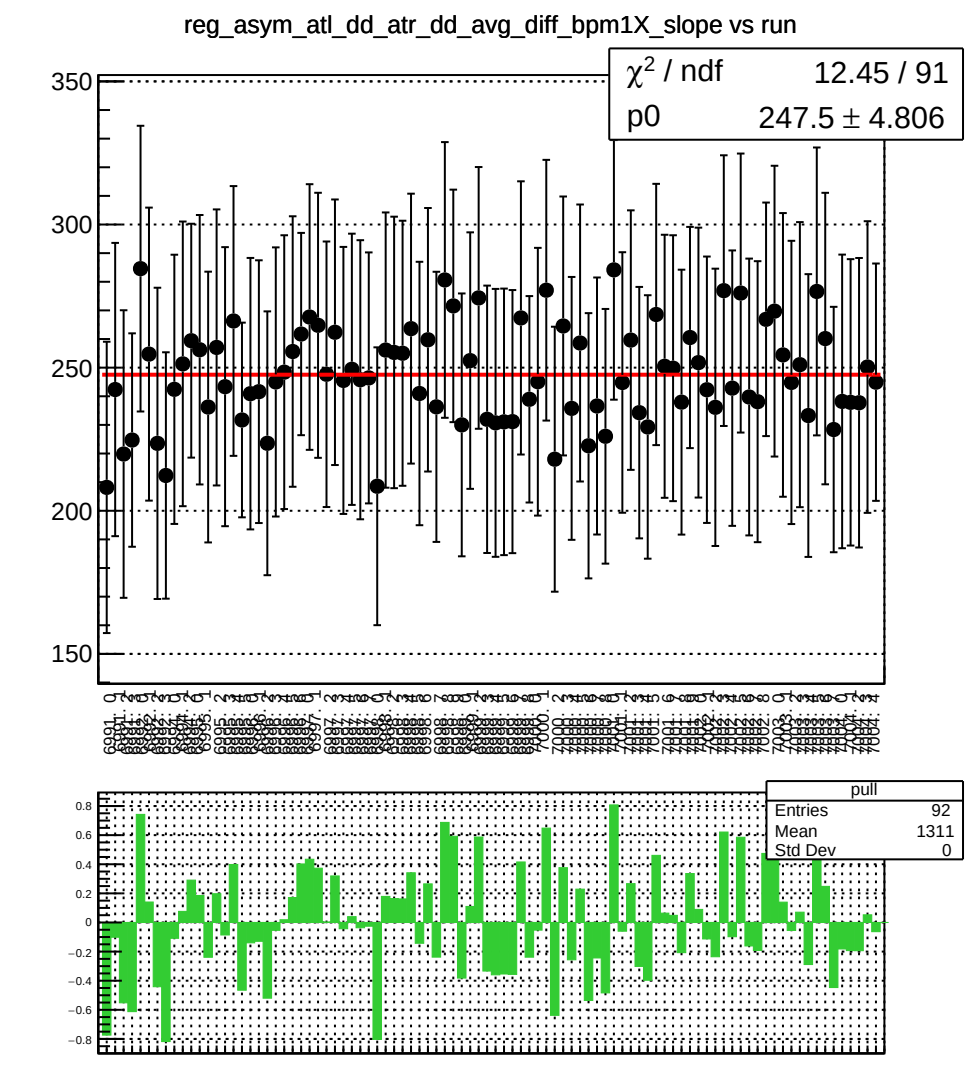

pull1D
Entries 92
Mean −0.002527
Std Dev 0.4525
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

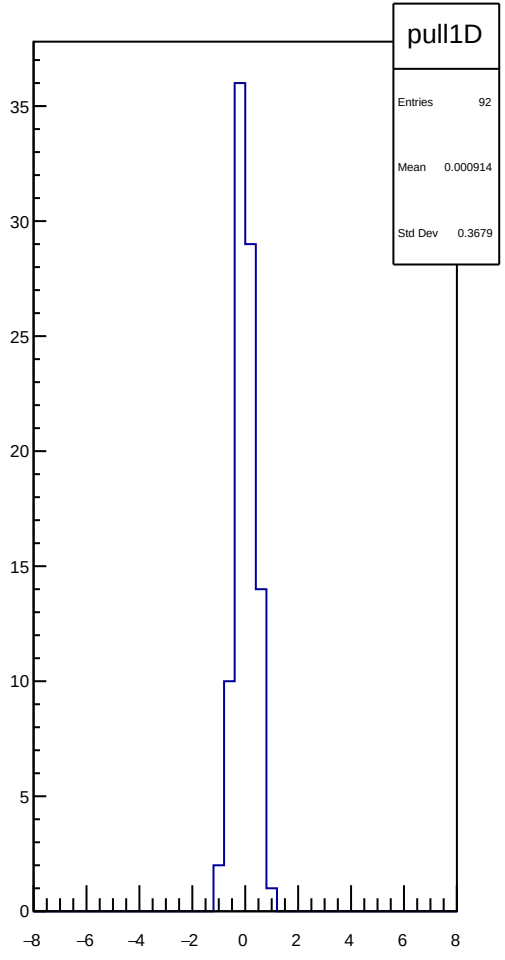

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.08 / 91
p0 −99.84 ± 3.884
pull
Entries 92
Mean 630.3
Std Dev 0

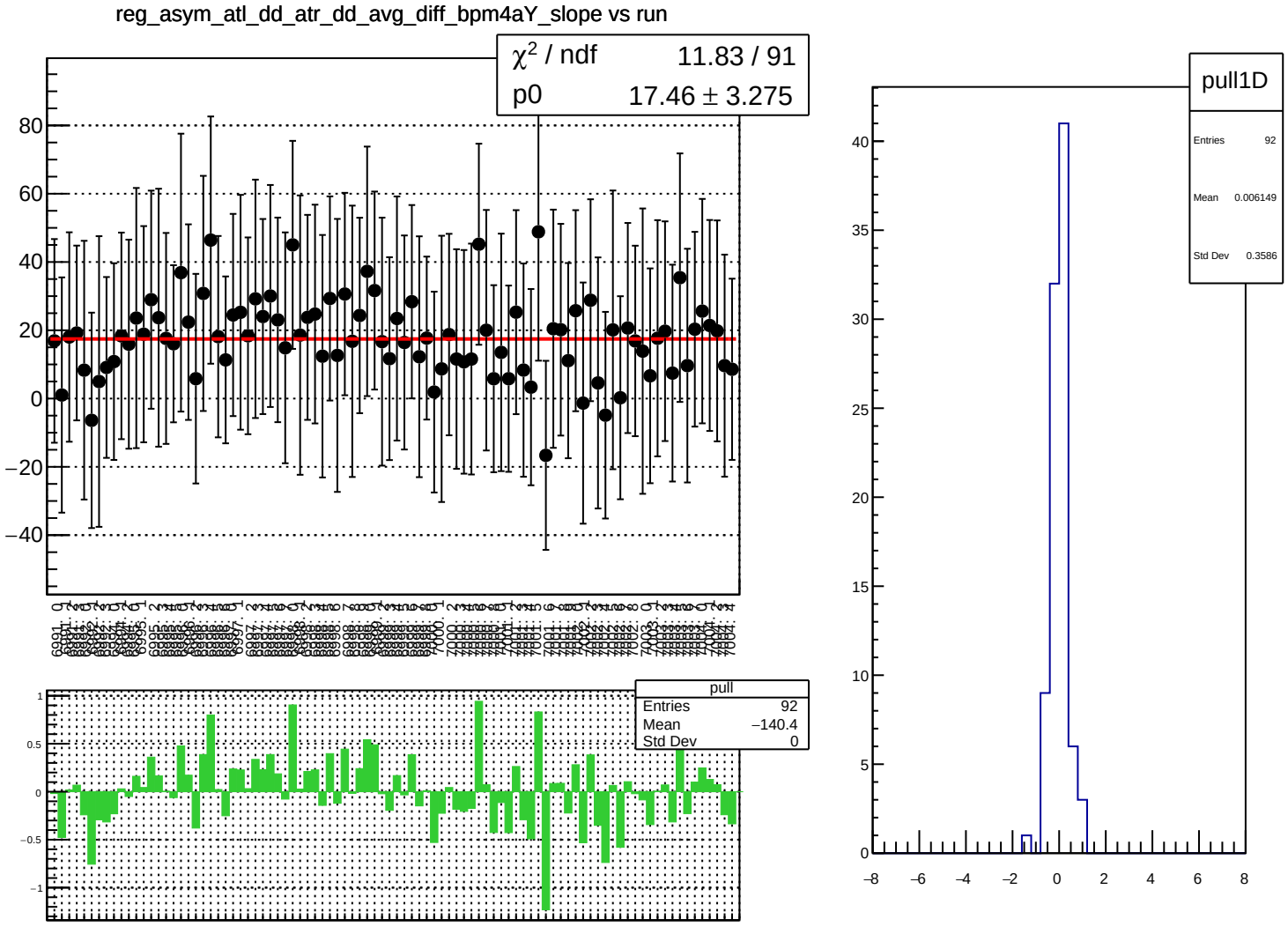

pull1D
Entries 92
Mean 0.0008397
Std Dev 0.3912

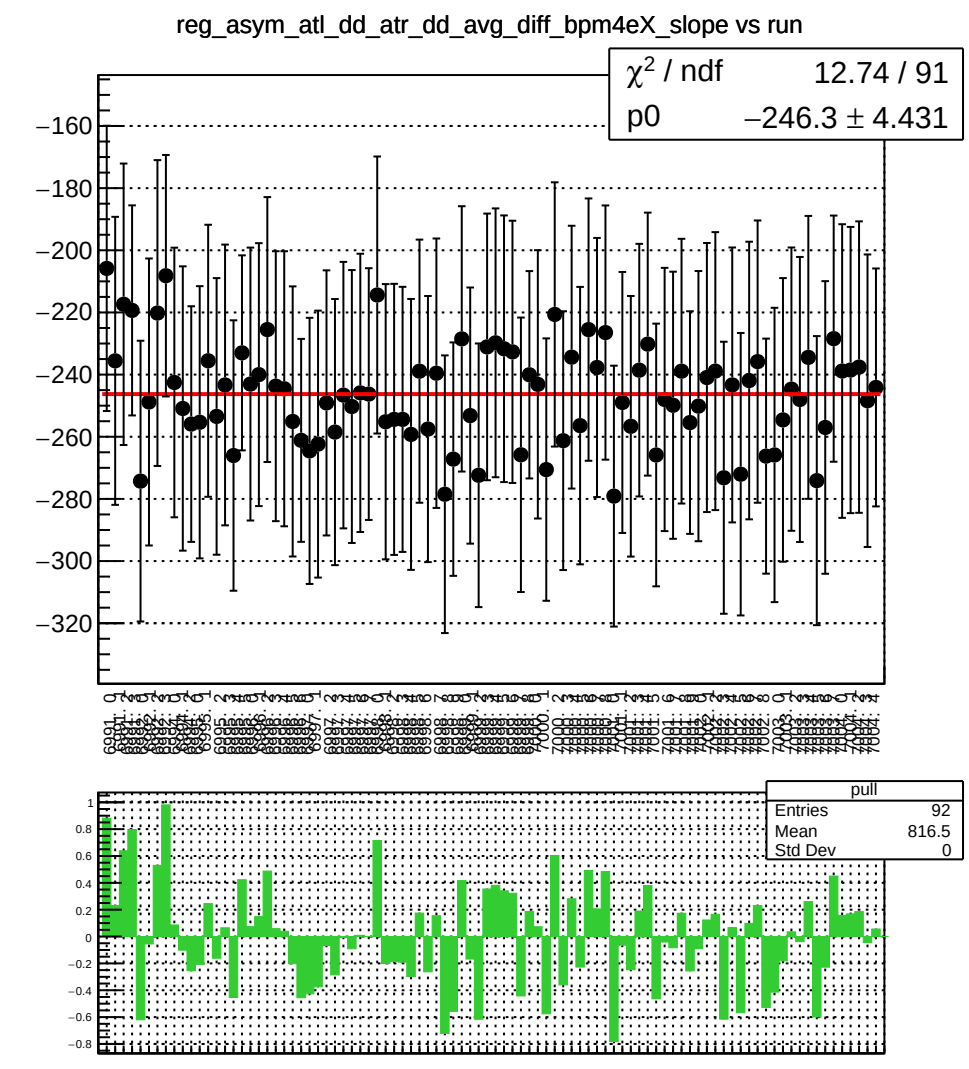

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 44.96 / 91
p0 134.7 ± 0.1741
140
138
136
134
132
130
pull
Entries 92
Mean 339.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

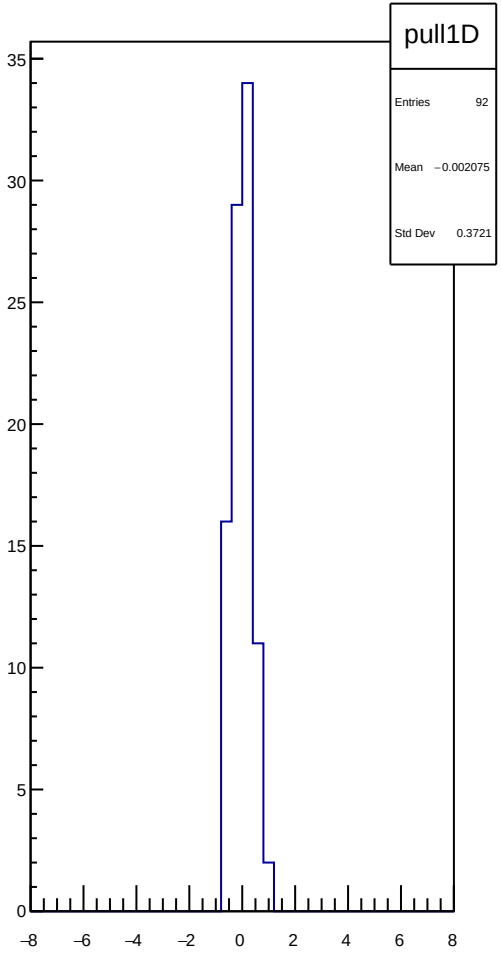

pull1D
Entries 92
Mean 0.01187
Std Dev 0.699
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

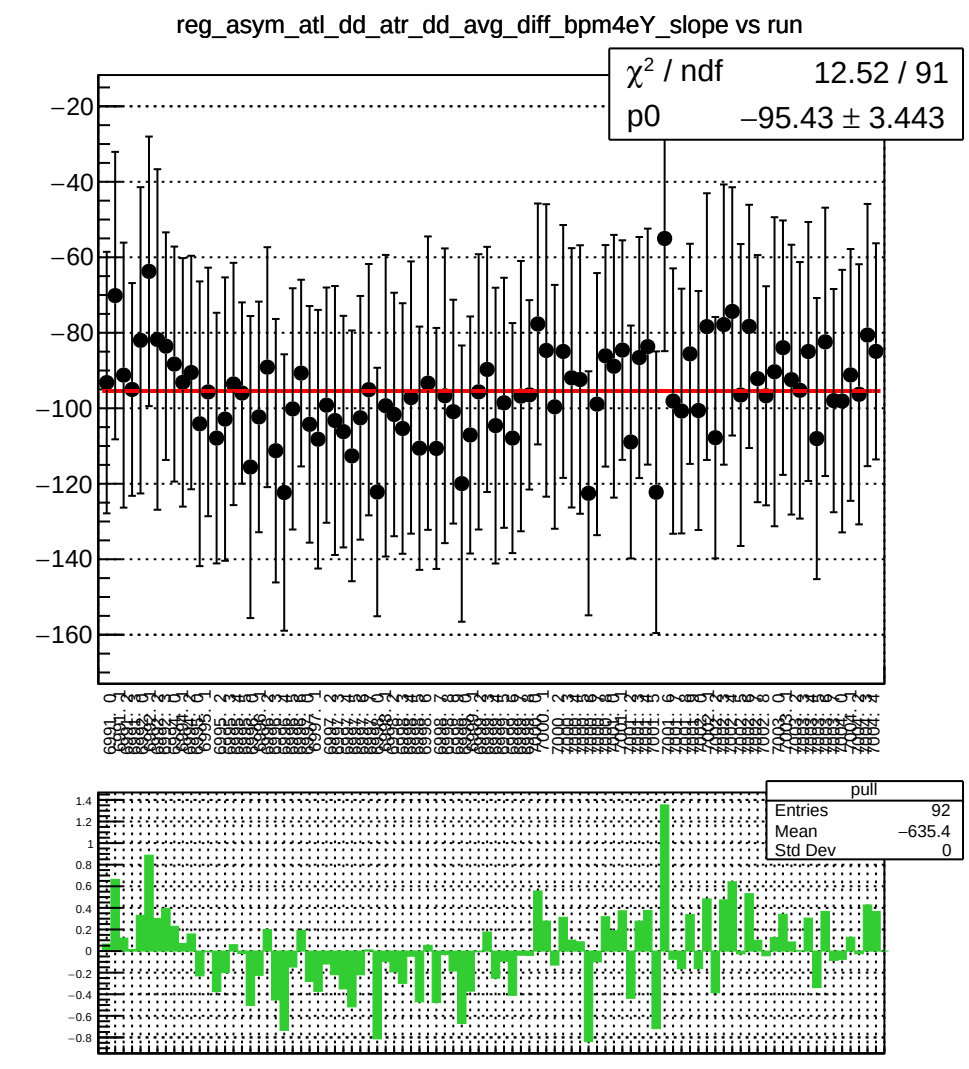

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 12.45 / 91
p0 247.5 ± 4.806
350
300
250
200
150
pull
Entries 92
Mean 1311
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

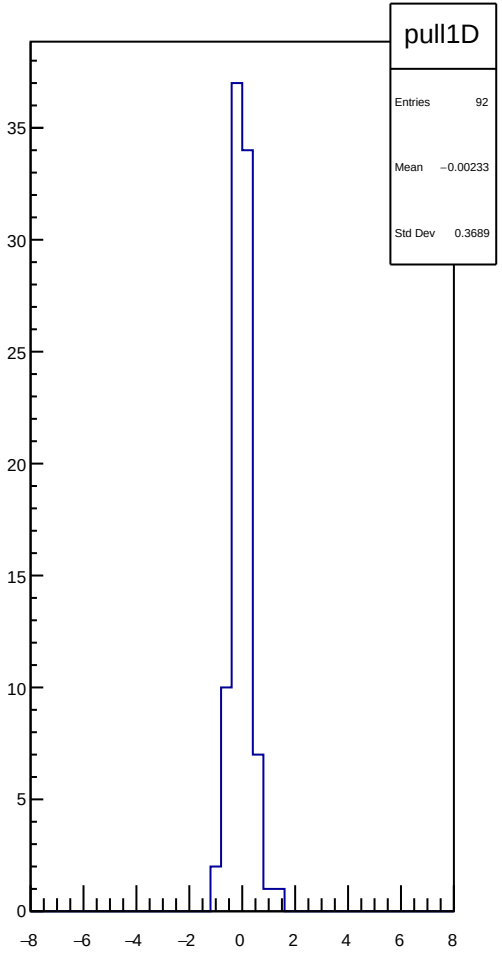

pull1D
Entries 92
Mean 0.000914
Std Dev 0.3679
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

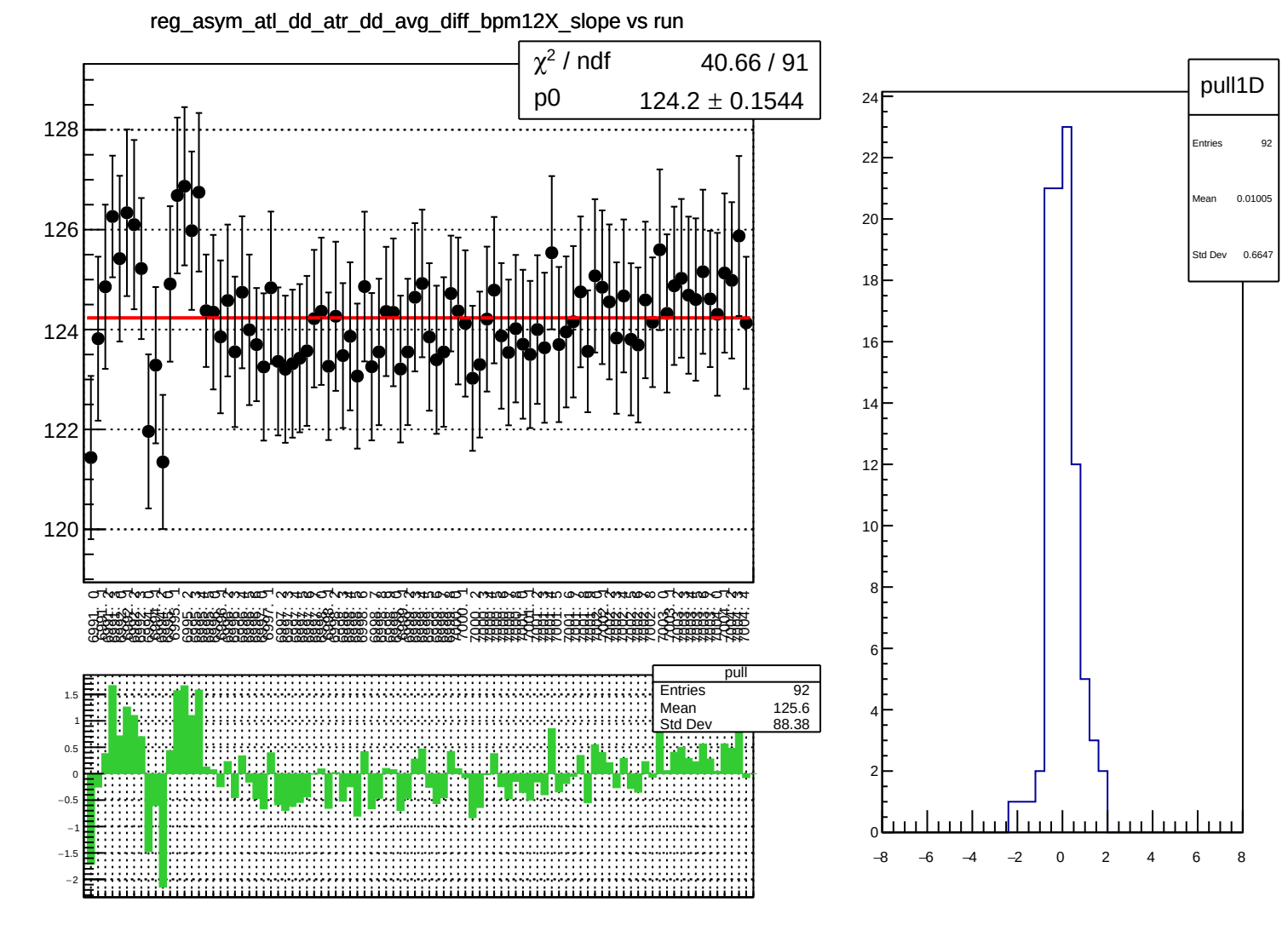

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.83 / 91
p0 17.46 ± 3.275
pull
Entries 92
Mean −140.4
Std Dev 0
pull1D
Entries 92
Mean 0.006149
Std Dev 0.3586

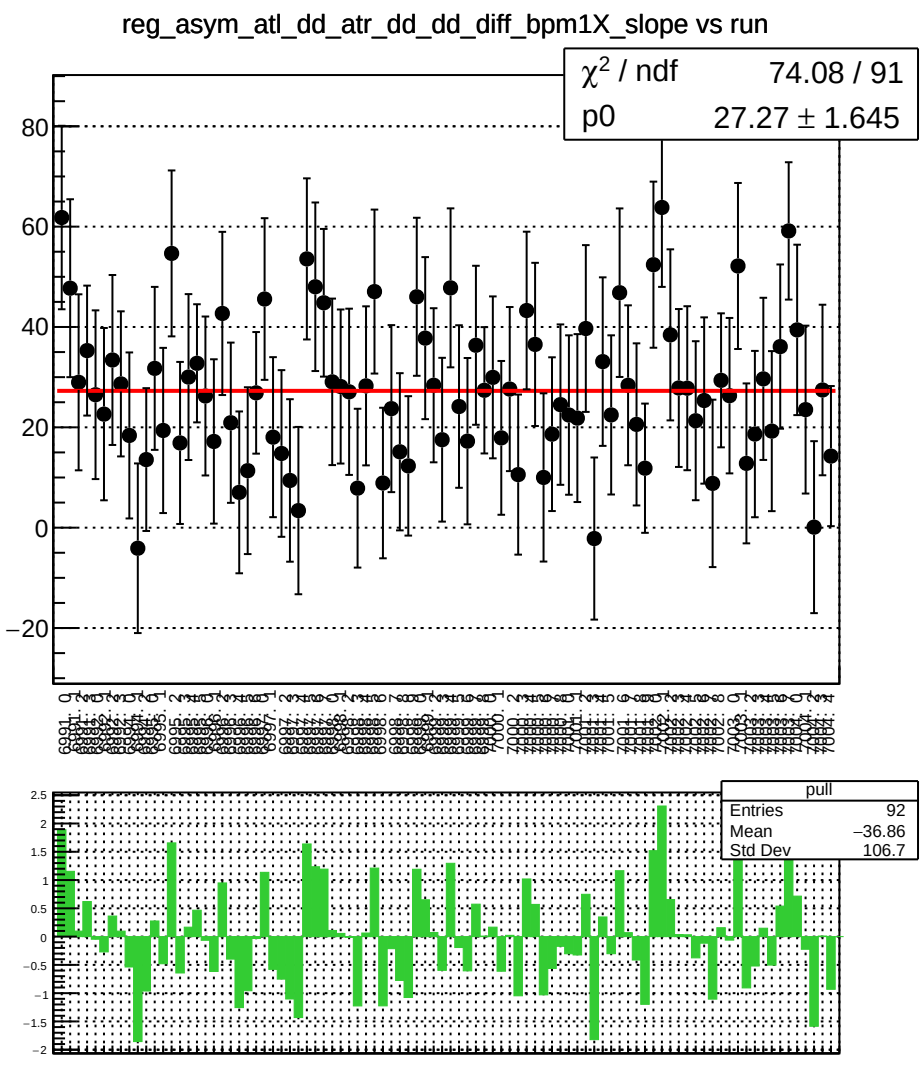

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.74 / 91
p0 −246.3 ± 4.431
pull
Entries 92
Mean 816.5
Std Dev 0

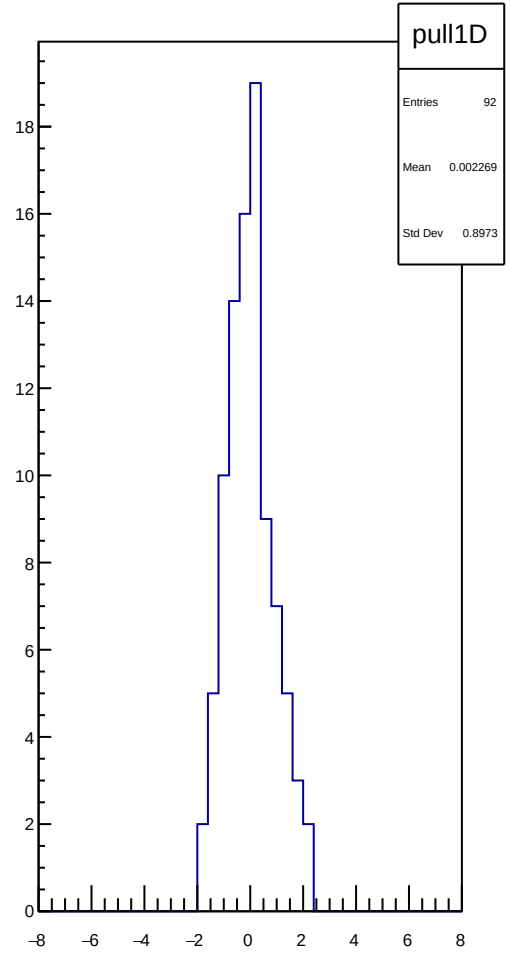

pull1D
Entries 92
Mean −0.002075
Std Dev 0.3721

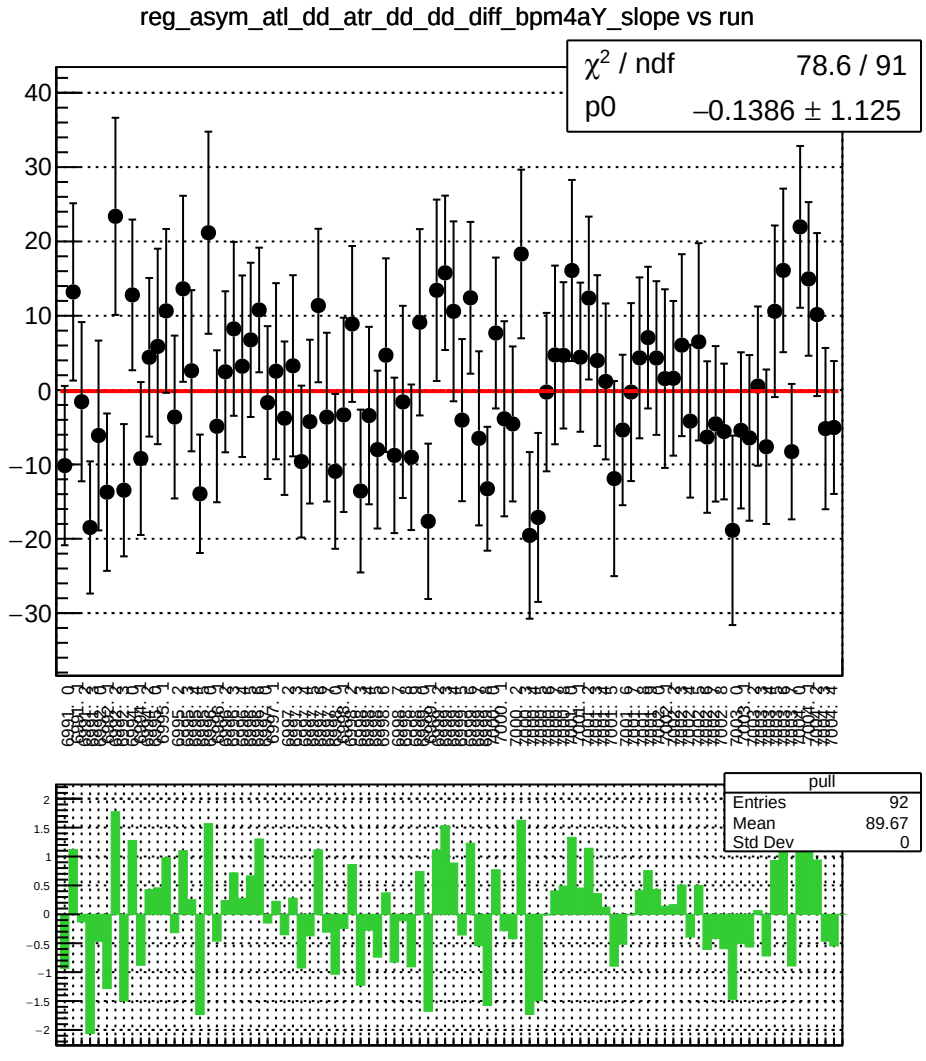

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.52 / 91
p0 −95.43 ± 3.443
pull
Entries 92
Mean −635.4
Std Dev 0

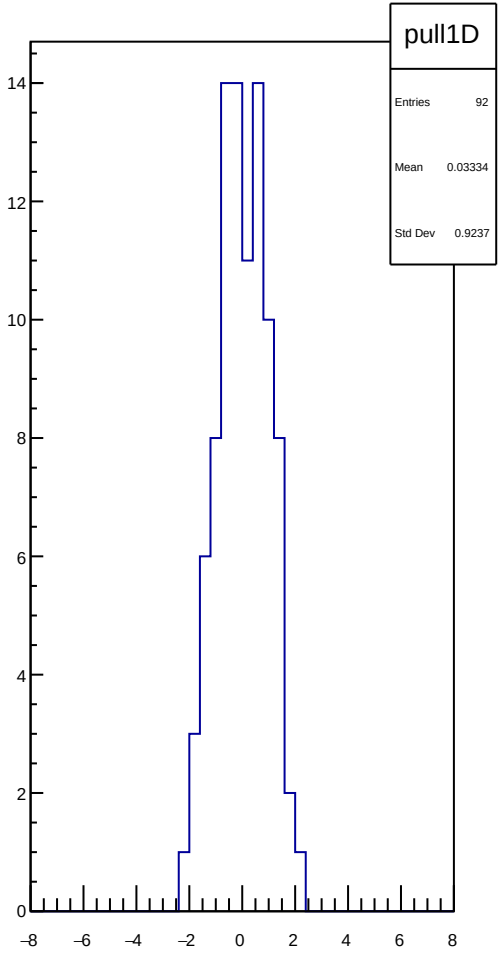

pull1D
Entries 92
Mean −0.00233
Std Dev 0.3689

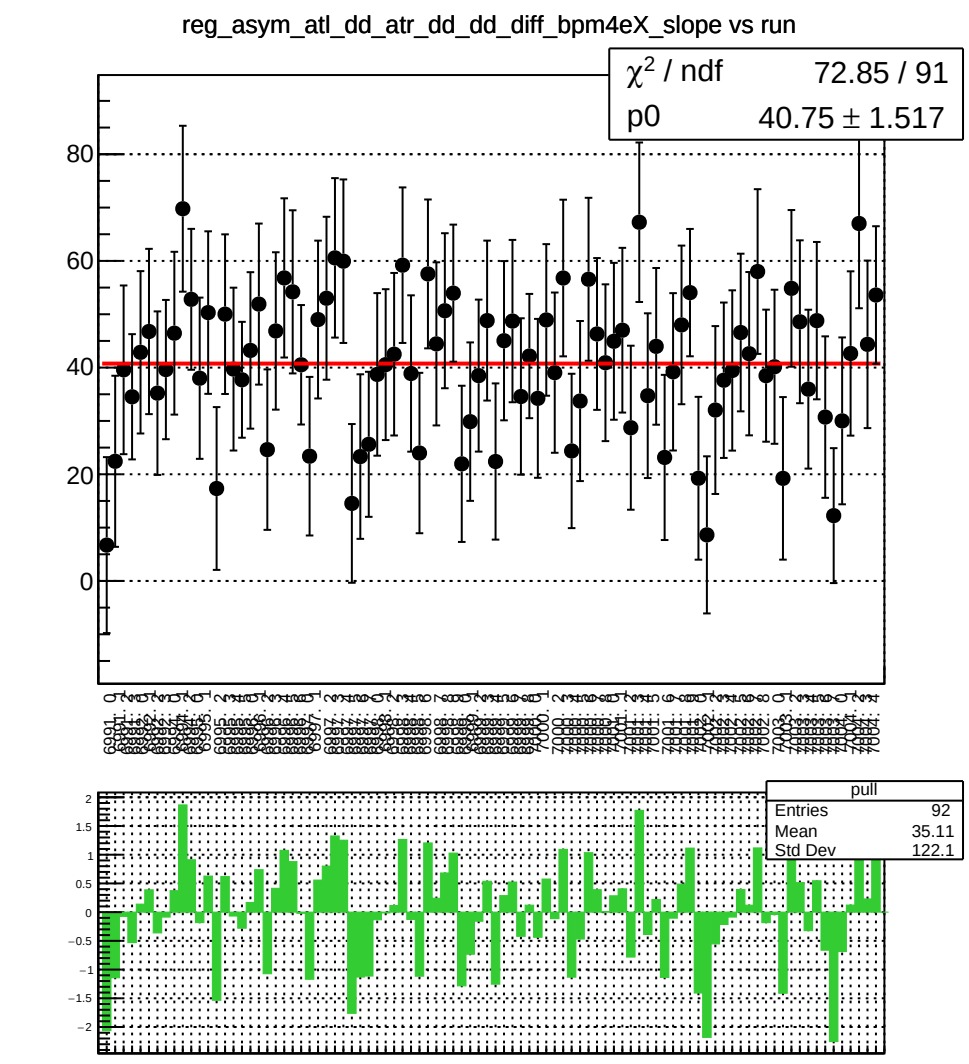

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 40.66 / 91
p0 124.2 ± 0.1544
128
126
124
122
120
pull
Entries 92
Mean 125.6
Std Dev 88.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.01005
Std Dev 0.6647
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

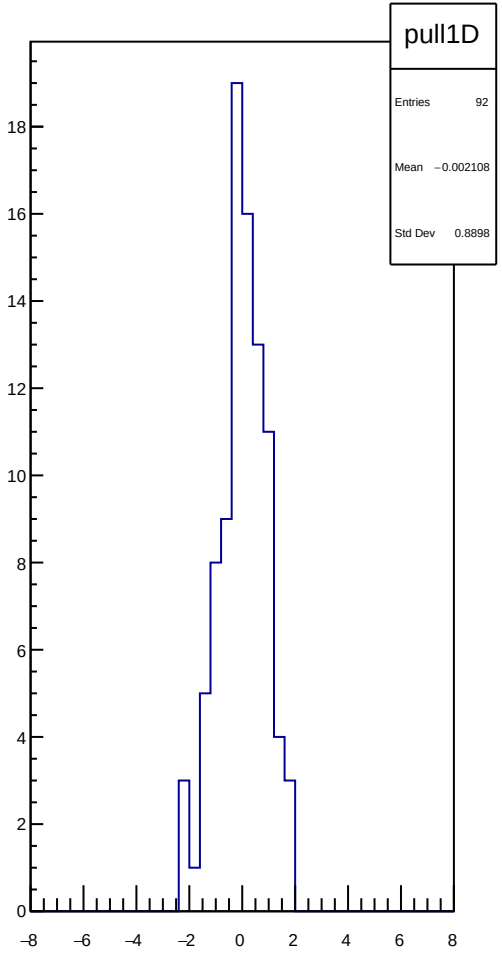

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 74.08 / 91
p0 27.27 ± 1.645
pull
Entries 92
Mean −36.86
Std Dev 106.7

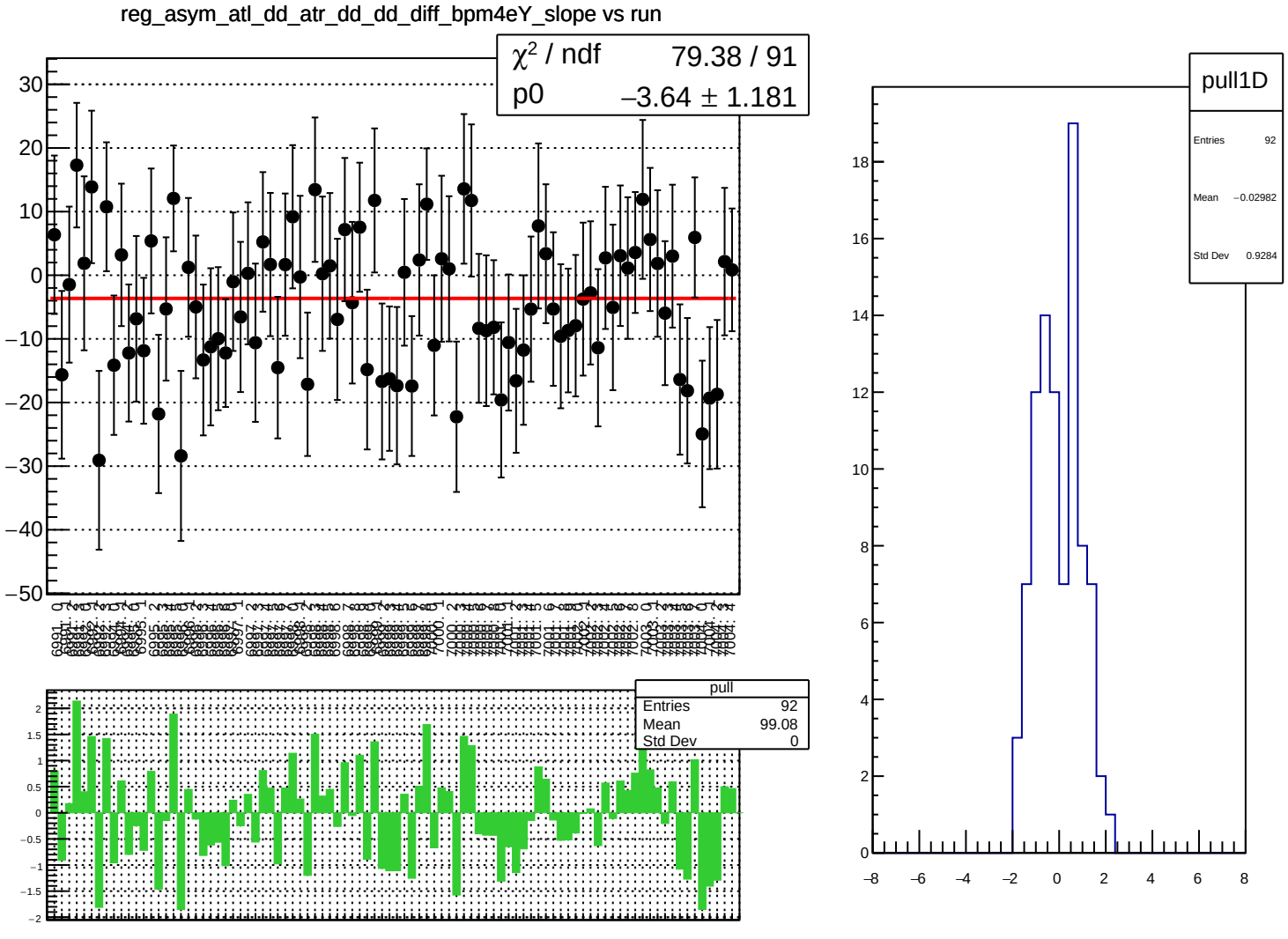

pull1D
Entries 92
Mean 0.002269
Std Dev 0.8973

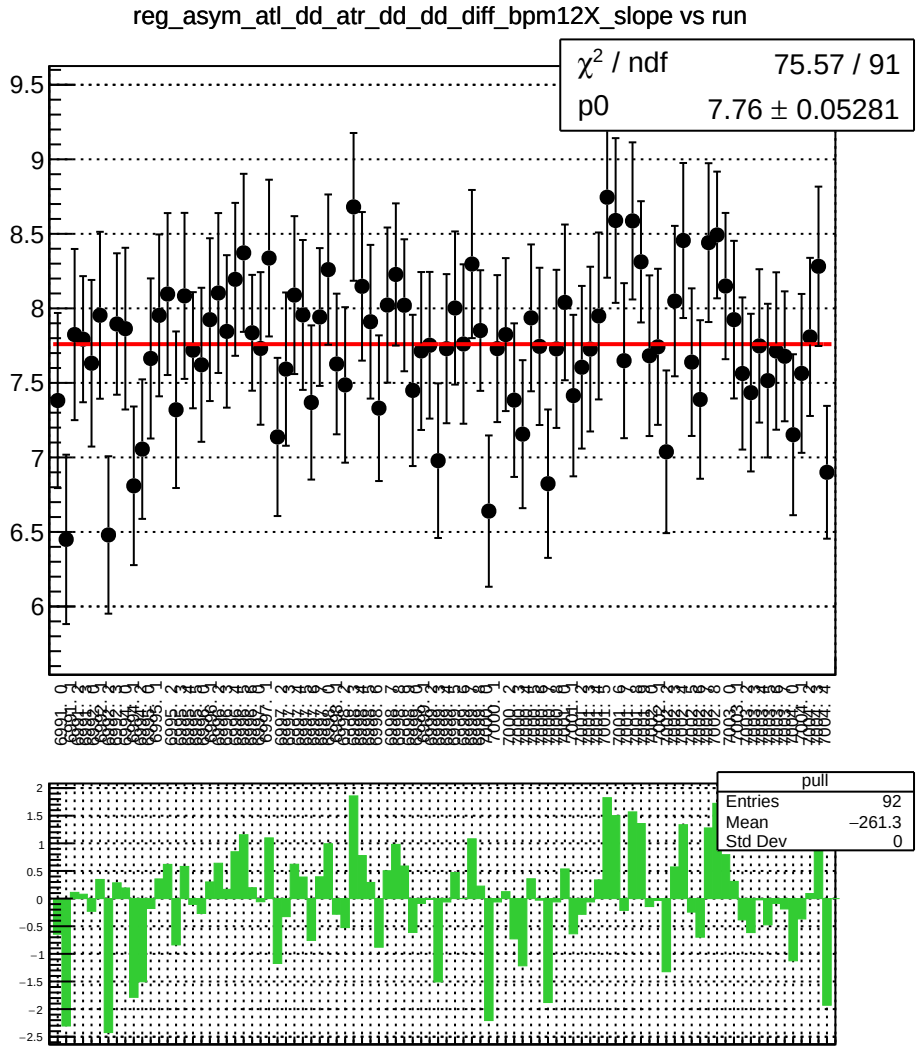

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.6 / 91
p0 −0.1386 ± 1.125
pull
Entries 92
Mean 89.67
Std Dev 0

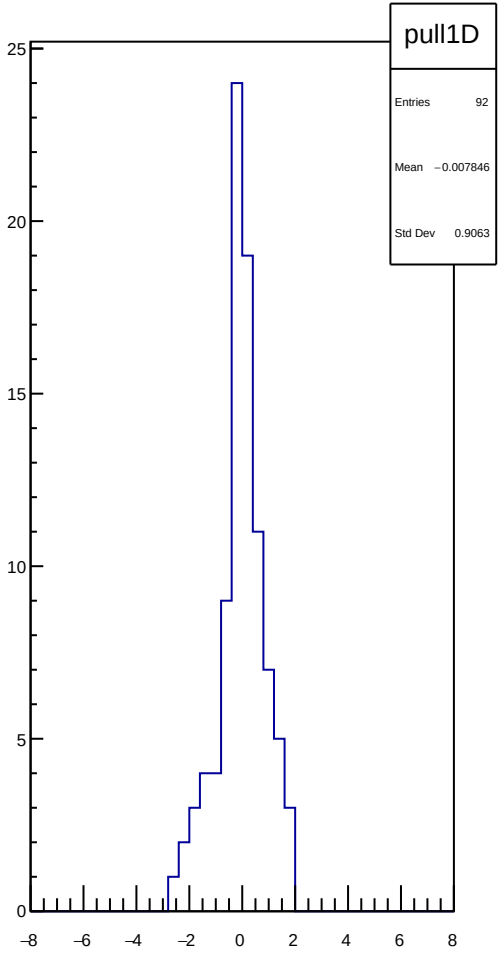

pull1D
Entries 92
Mean 0.03334
Std Dev 0.9237

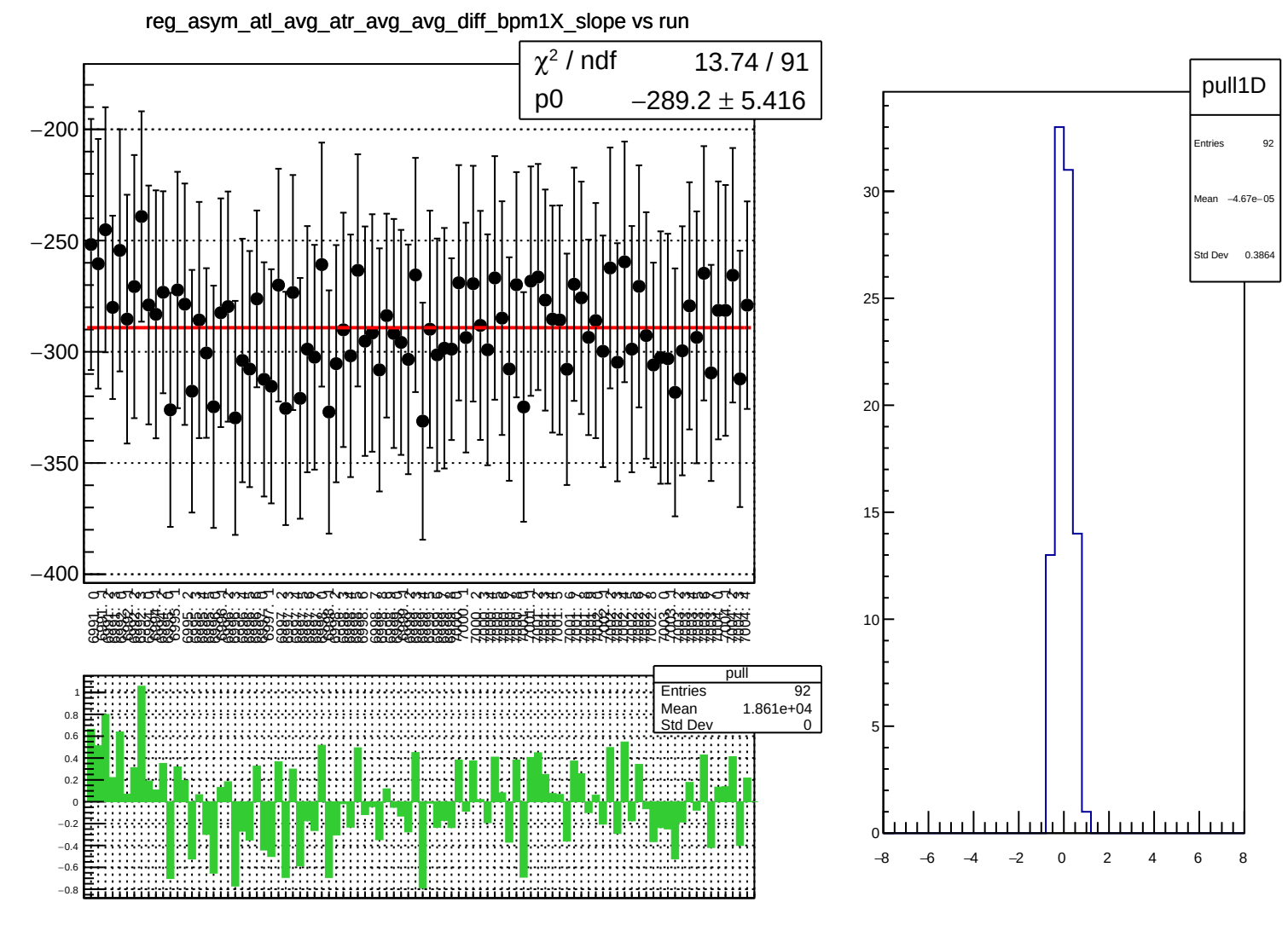

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.85 / 91
p0 40.75 ± 1.517
pull
Entries 92
Mean 35.11
Std Dev 122.1

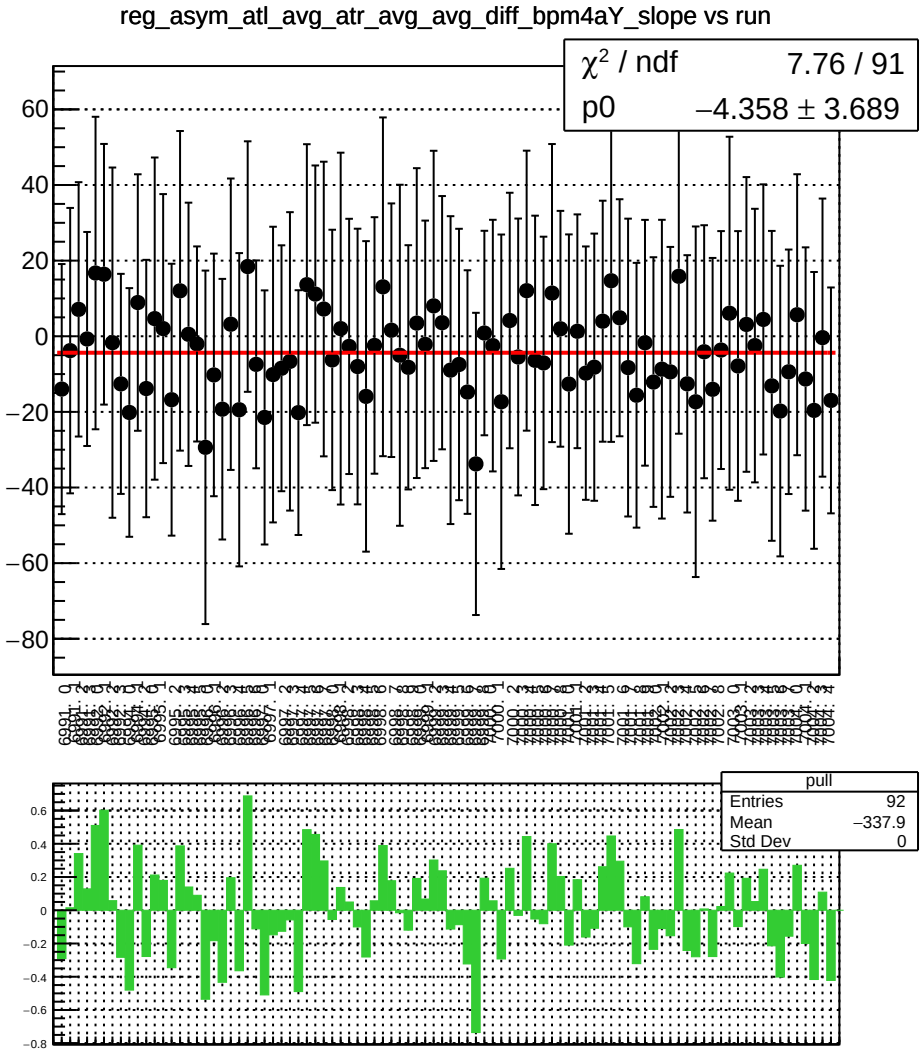

pull1D
Entries 92
Mean −0.002108
Std Dev 0.8898

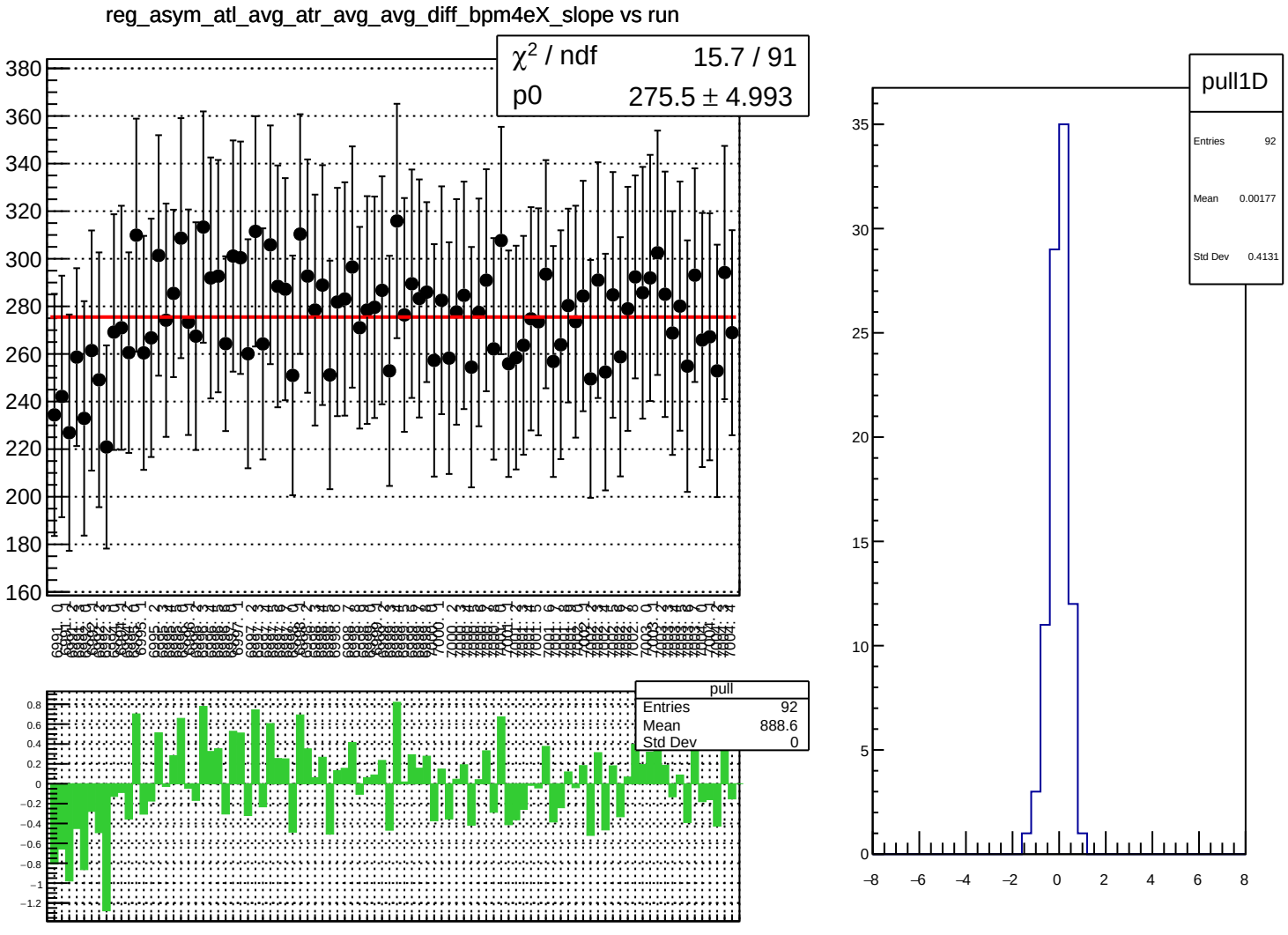

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.38 / 91
p0 −3.64 ± 1.181
pull
Entries 92
Mean 99.08
Std Dev 0
pull1D
Entries 92
Mean −0.02982
Std Dev 0.9284

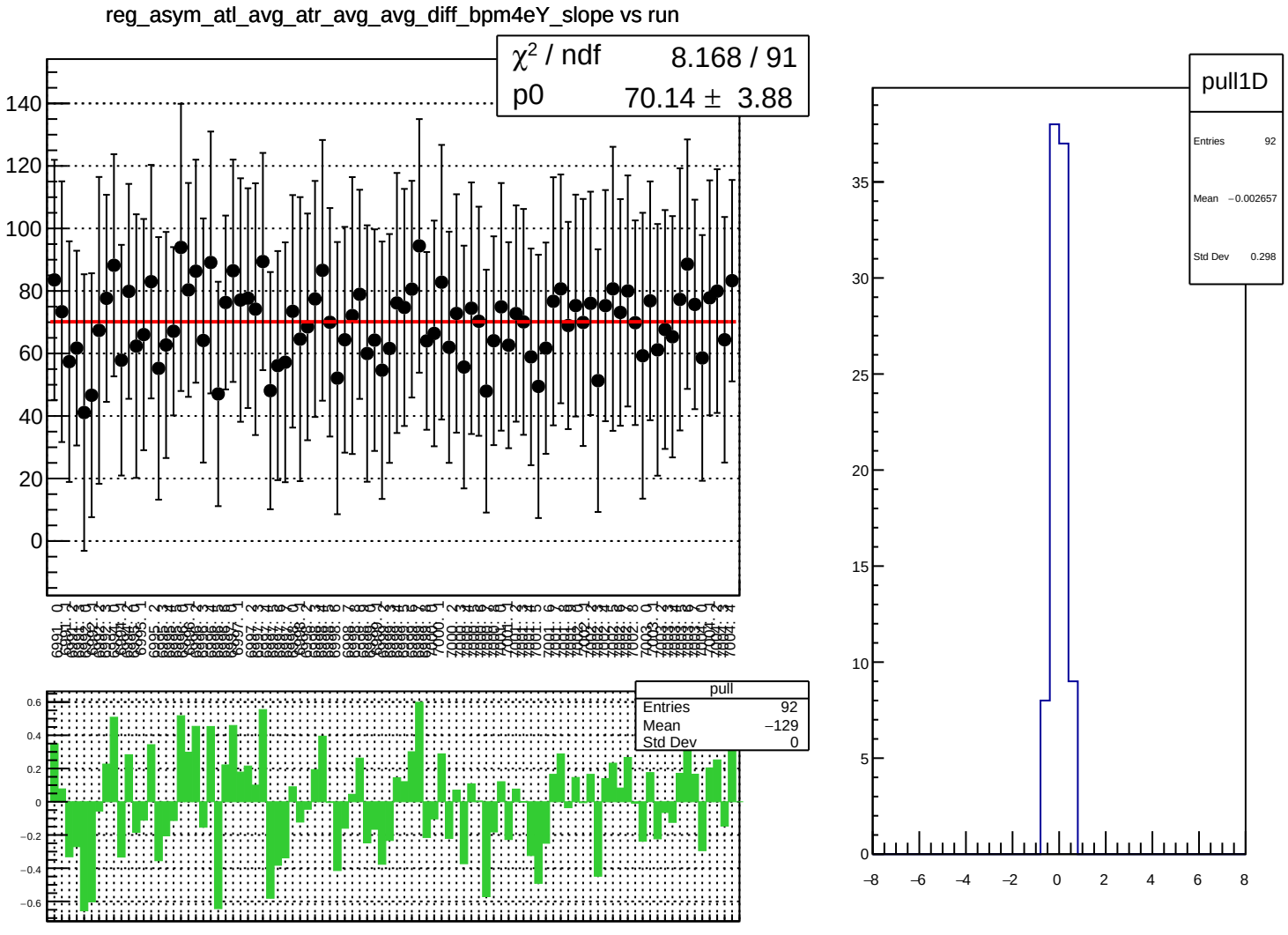

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 75.57 / 91
p0 7.76 ± 0.05281
pull
Entries 92
Mean −261.3
Std Dev 0

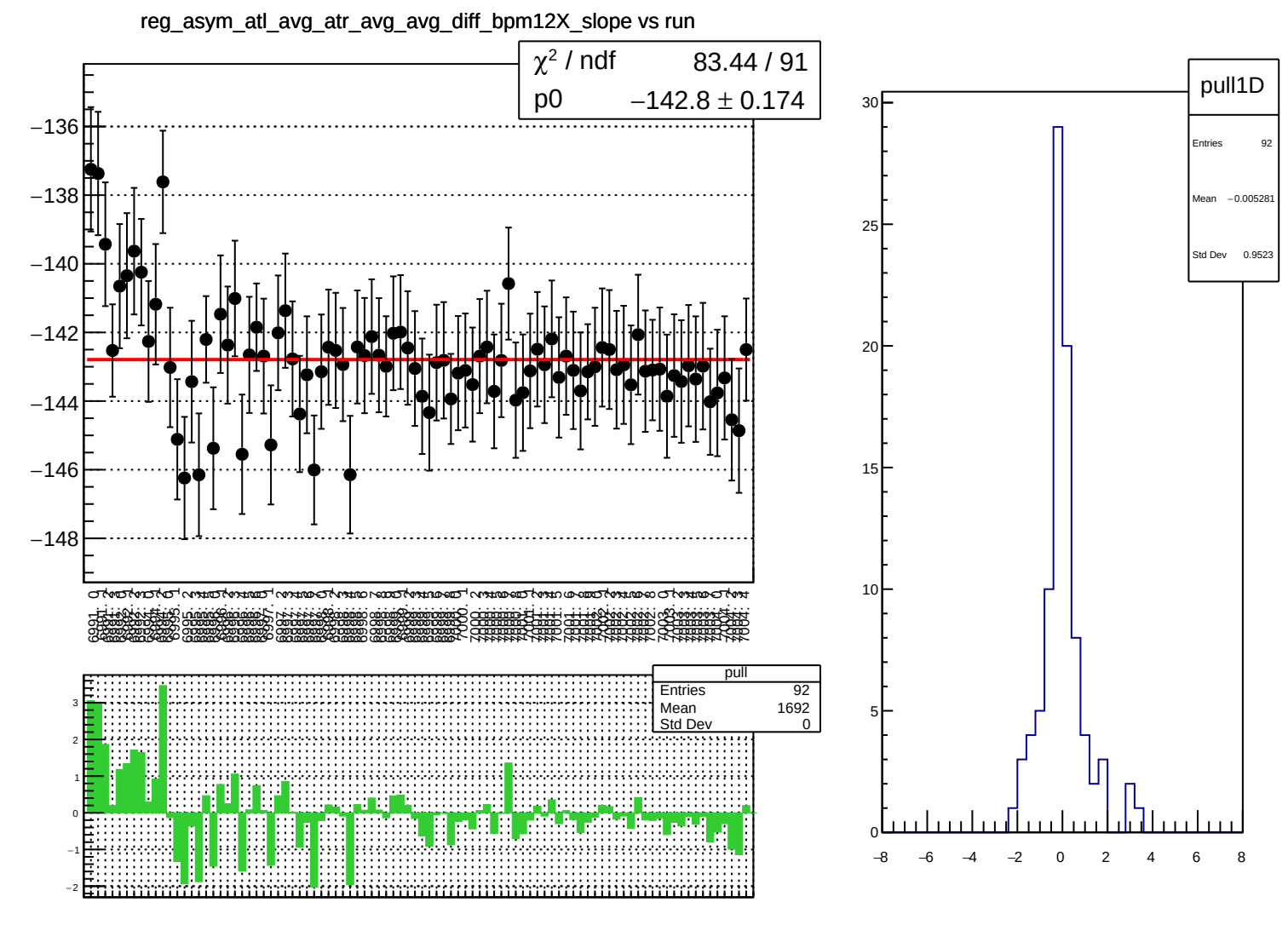

pull1D
Entries 92
Mean −0.007846
Std Dev 0.9063

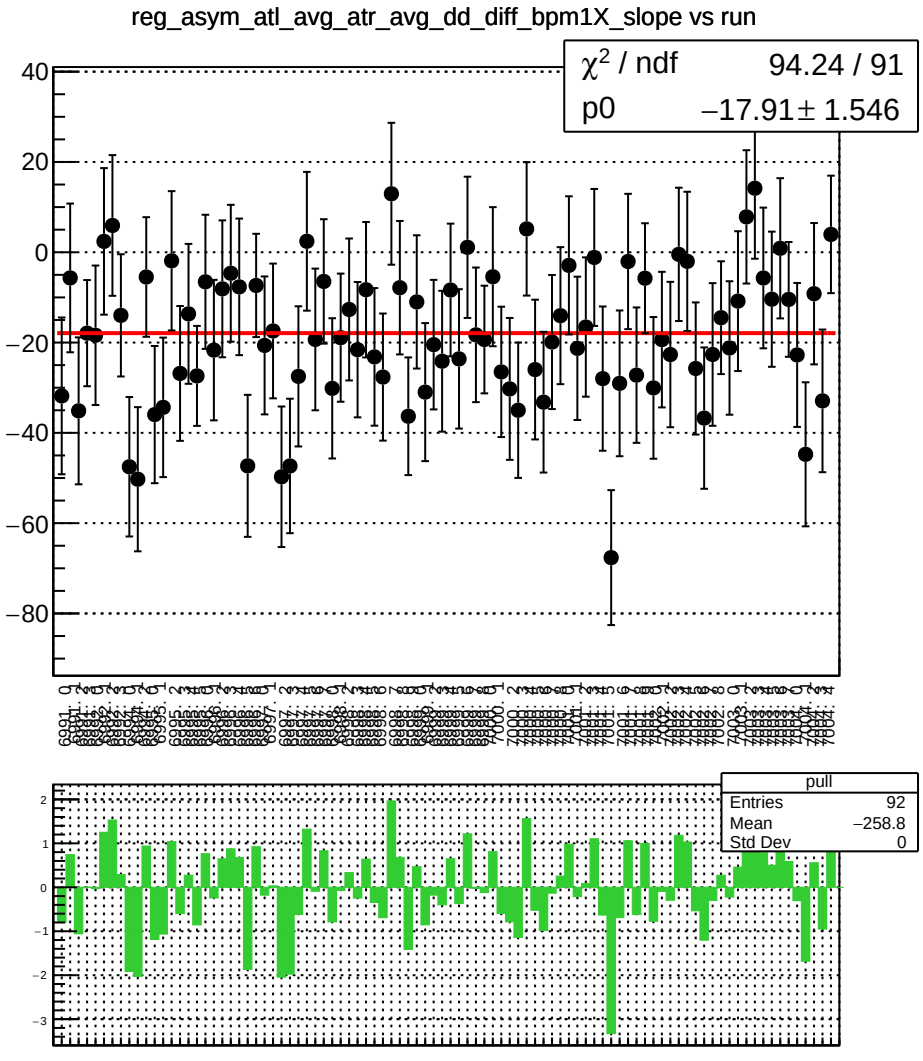

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 13.74 / 91
p0 −289.2 ± 5.416
−200
−250
−300
−350
−400
pull
Entries 92
Mean 1.861e+04
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −4.67e−05
Std Dev 0.3864
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

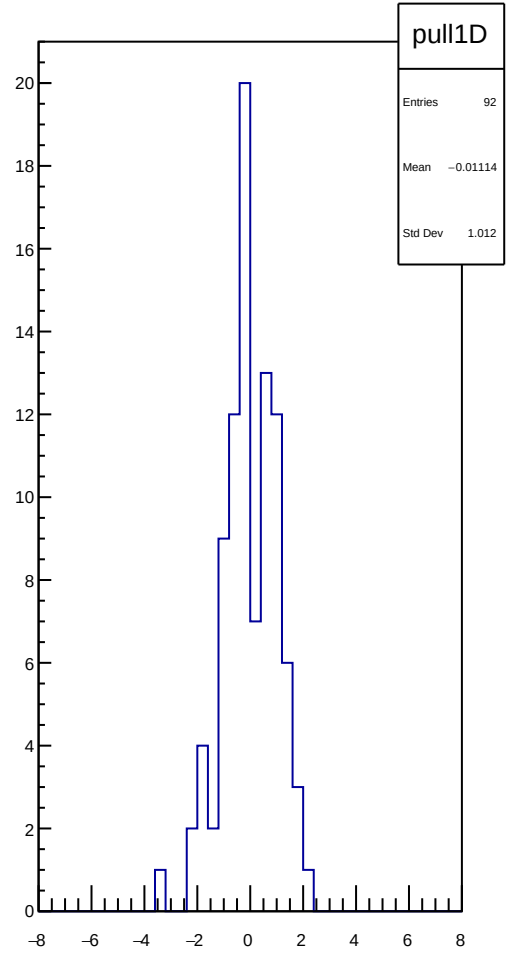

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.76 / 91
p0 −4.358 ± 3.689
pull
Entries 92
Mean −337.9
Std Dev 0
pull1D
Entries 92
Mean 0.002032
Std Dev 0.2904

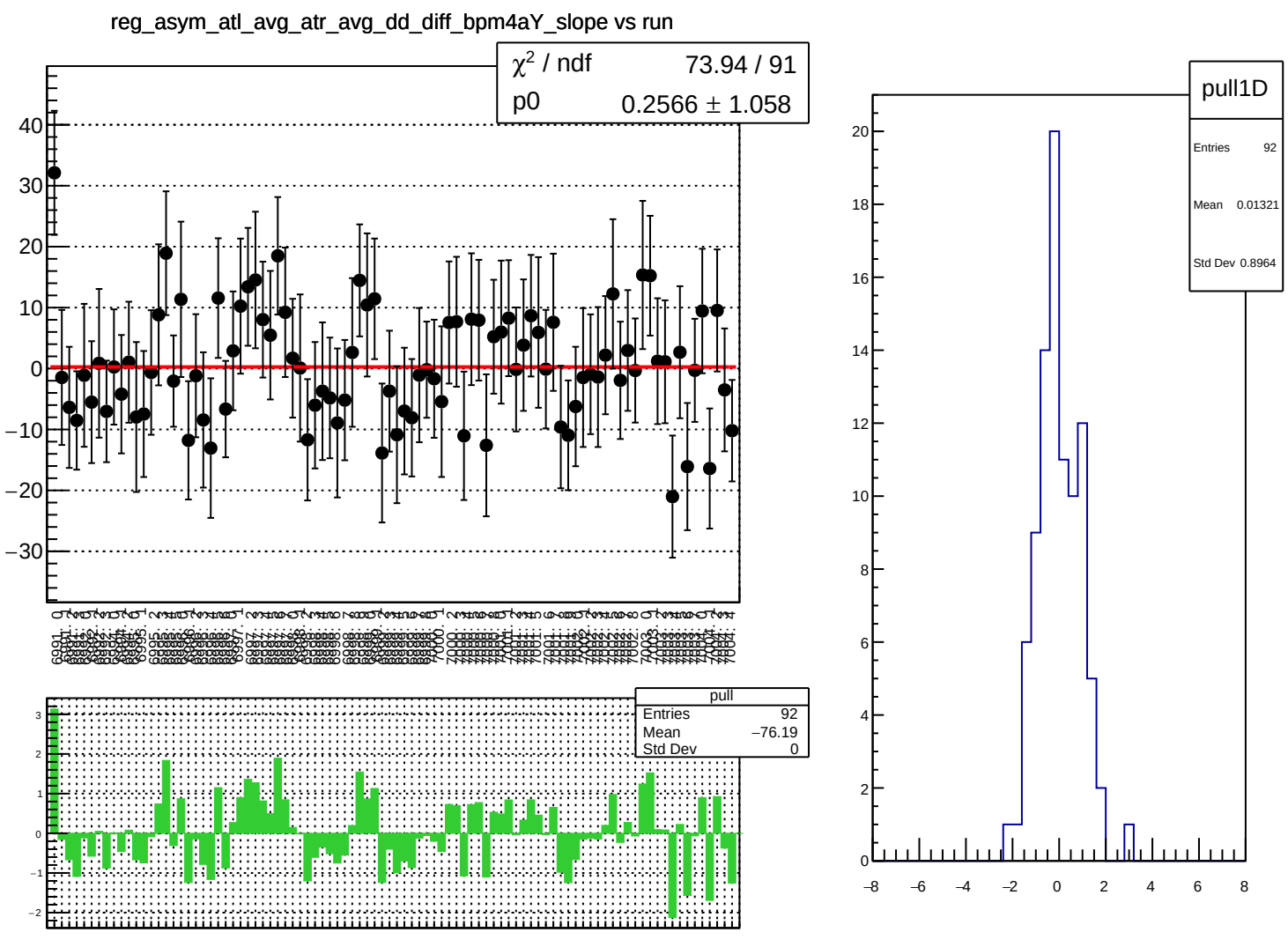

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.7 / 91
p0 275.5 ± 4.993
pull
Entries 92
Mean 888.6
Std Dev 0
pull1D
Entries 92
Mean 0.00177
Std Dev 0.4131

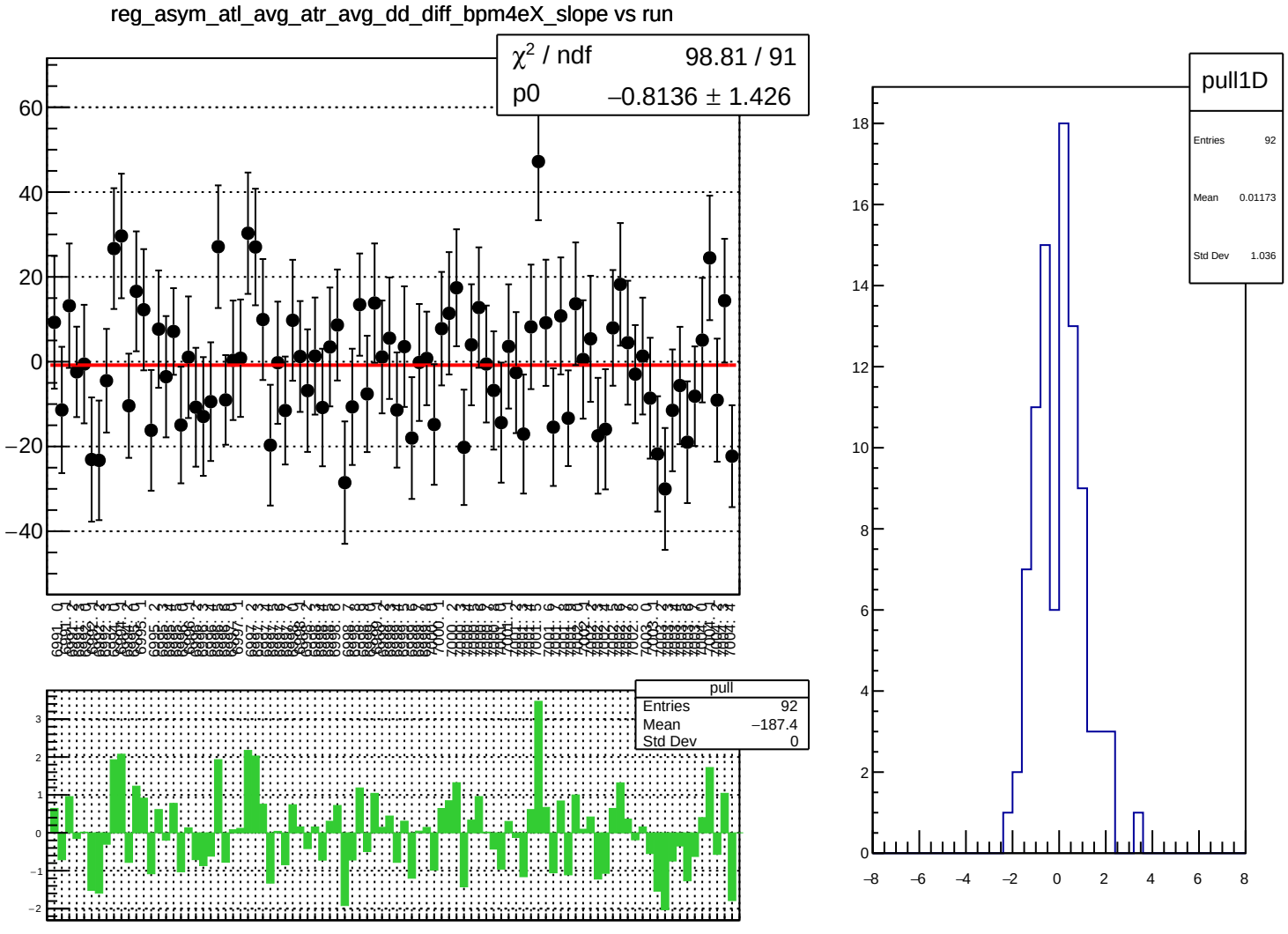

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.168 / 91
p0 70.14 ± 3.88
pull
Entries 92
Mean −129
Std Dev 0
pull1D
Entries 92
Mean −0.002657
Std Dev 0.298

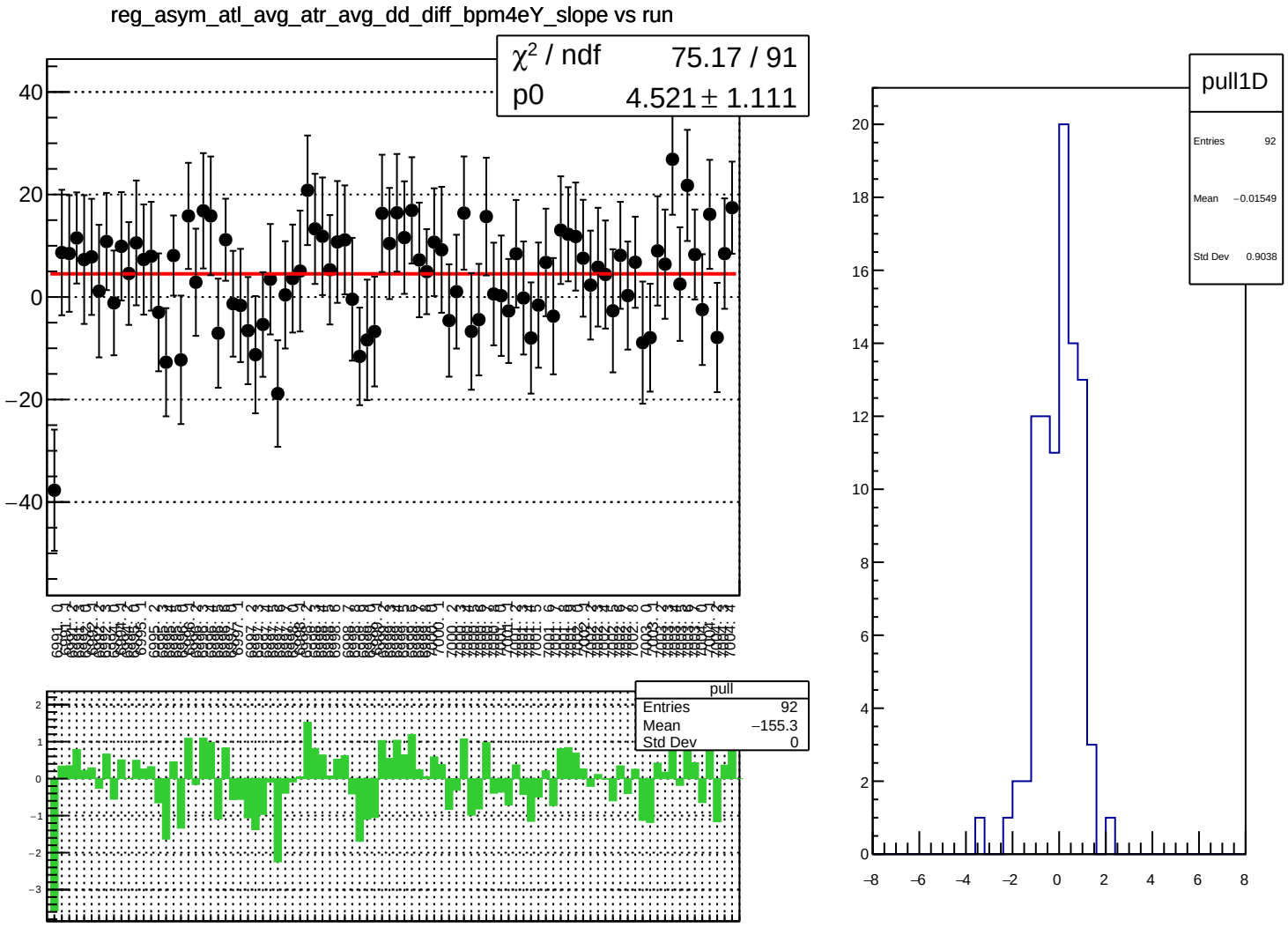

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 83.44 / 91
p0 −142.8 ± 0.174
−136
−138
−140
−142
−144
−146
−148
pull
Entries 92
Mean 1692
Std Dev 0
pull1D
Entries 92
Mean −0.005281
Std Dev 0.9523
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

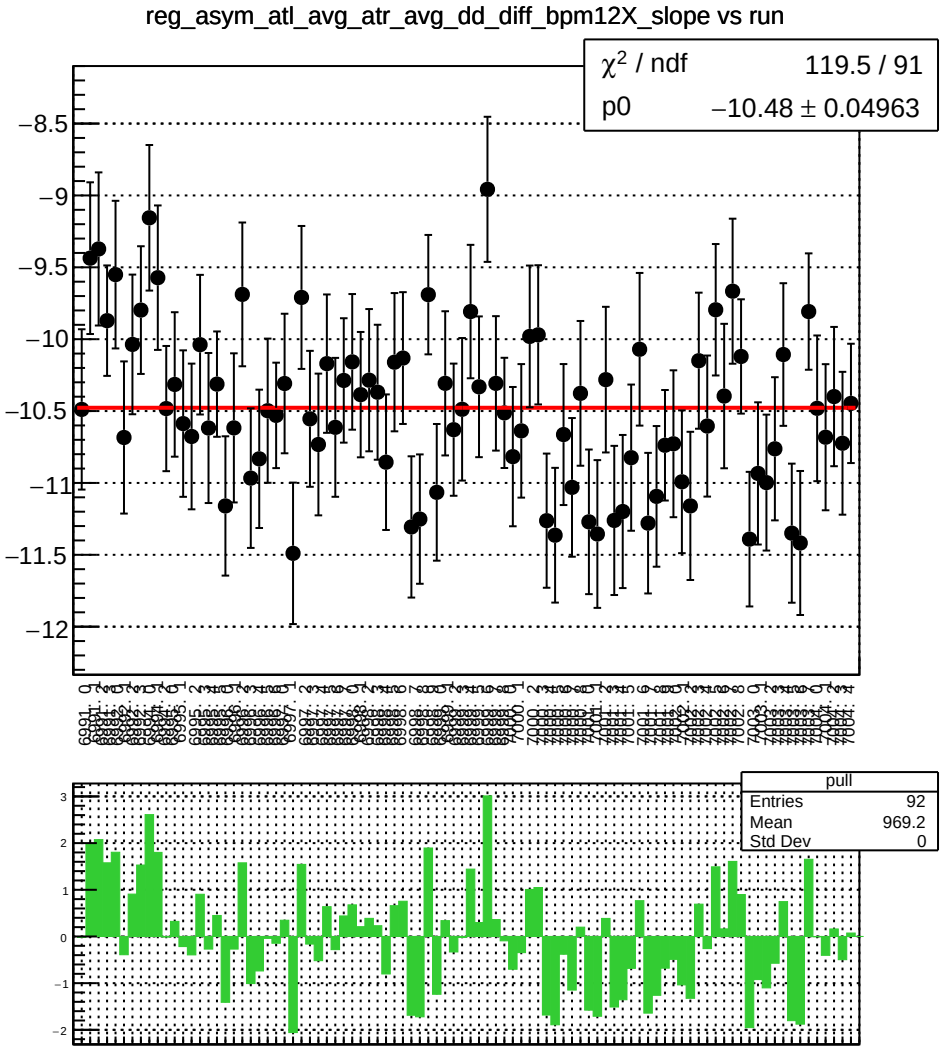

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 94.24 / 91
p0 −17.91± 1.546
pull
Entries 92
Mean −258.8
Std Dev 0

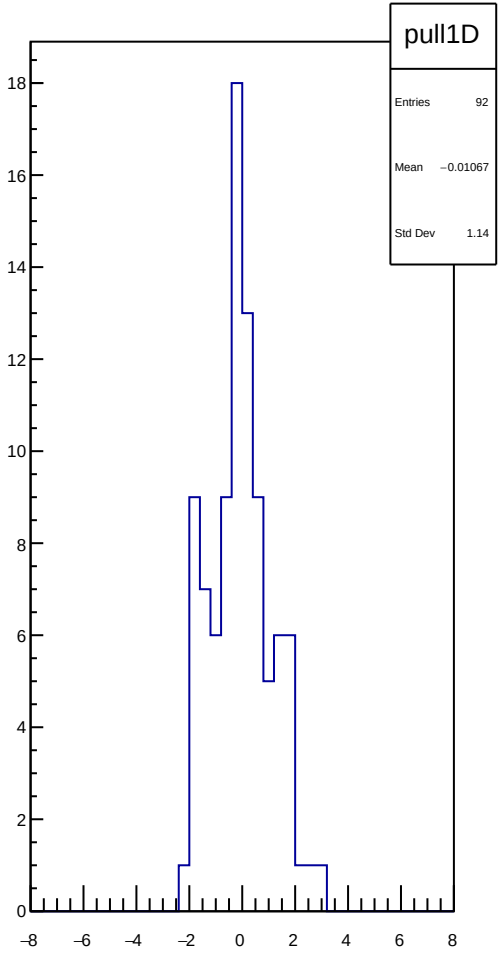

pull1D
Entries 92
Mean −0.01114
Std Dev 1.012

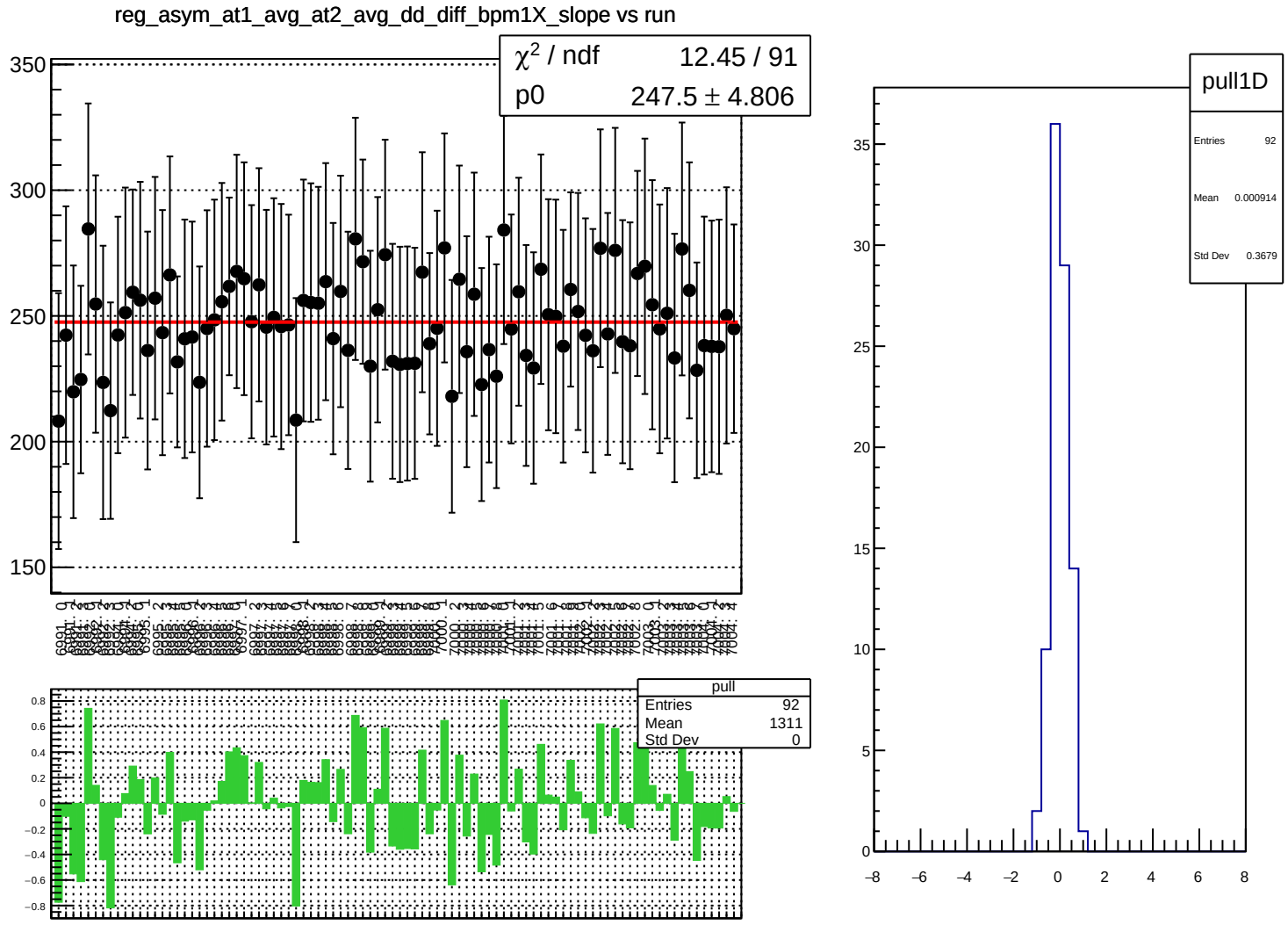

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.94 / 91
p0 0.2566 ± 1.058
pull
Entries 92
Mean −76.19
Std Dev 0
pull1D
Entries 92
Mean 0.01321
Std Dev 0.8964

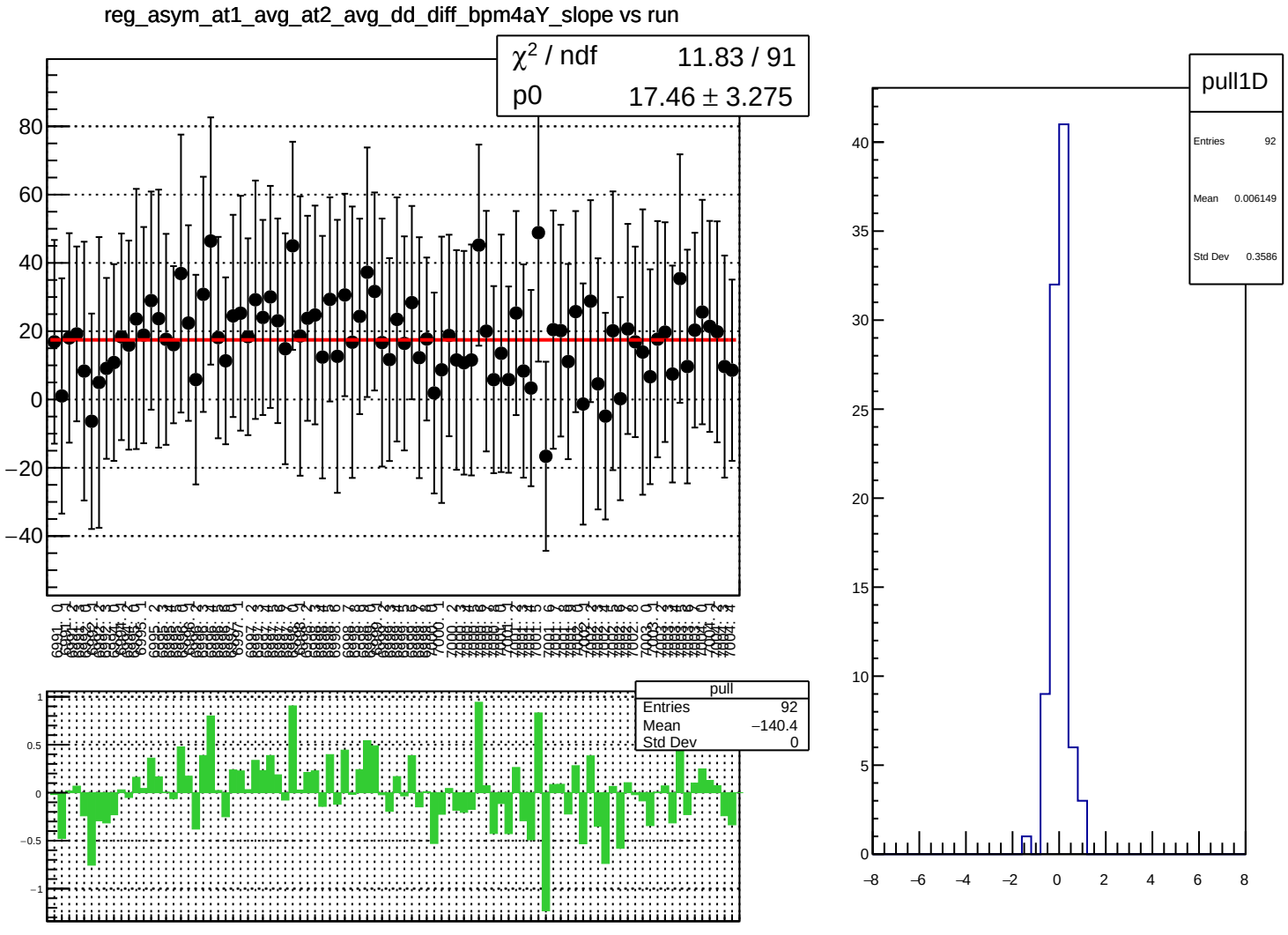

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.81 / 91
p0 −0.8136 ± 1.426
pull
Entries 92
Mean −187.4
Std Dev 0
pull1D
Entries 92
Mean 0.01173
Std Dev 1.036

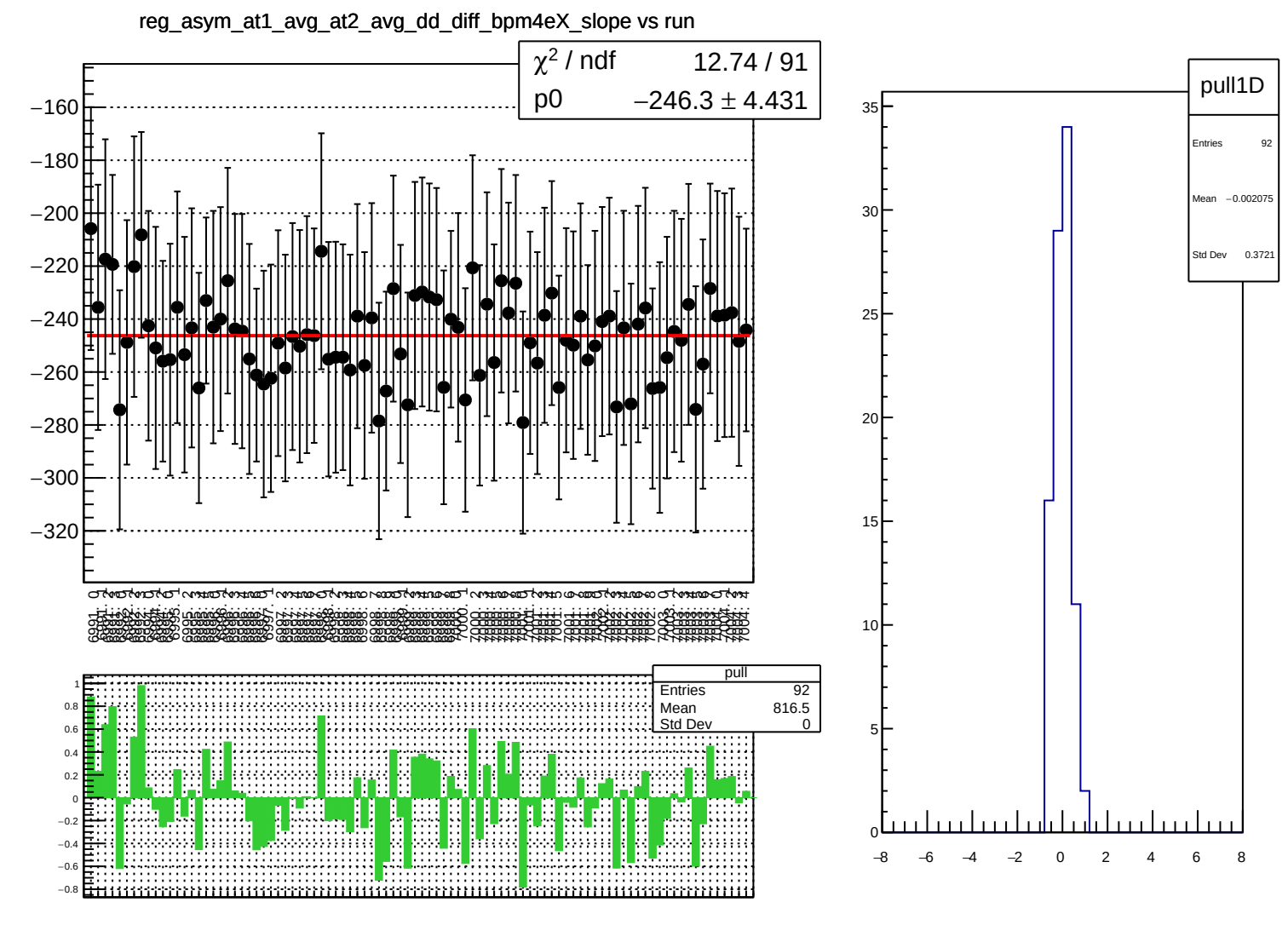

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.17 / 91
p0 4.521 ± 1.111
40
20
0
−20
−40
pull
Entries 92
Mean −155.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.01549
Std Dev 0.9038
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

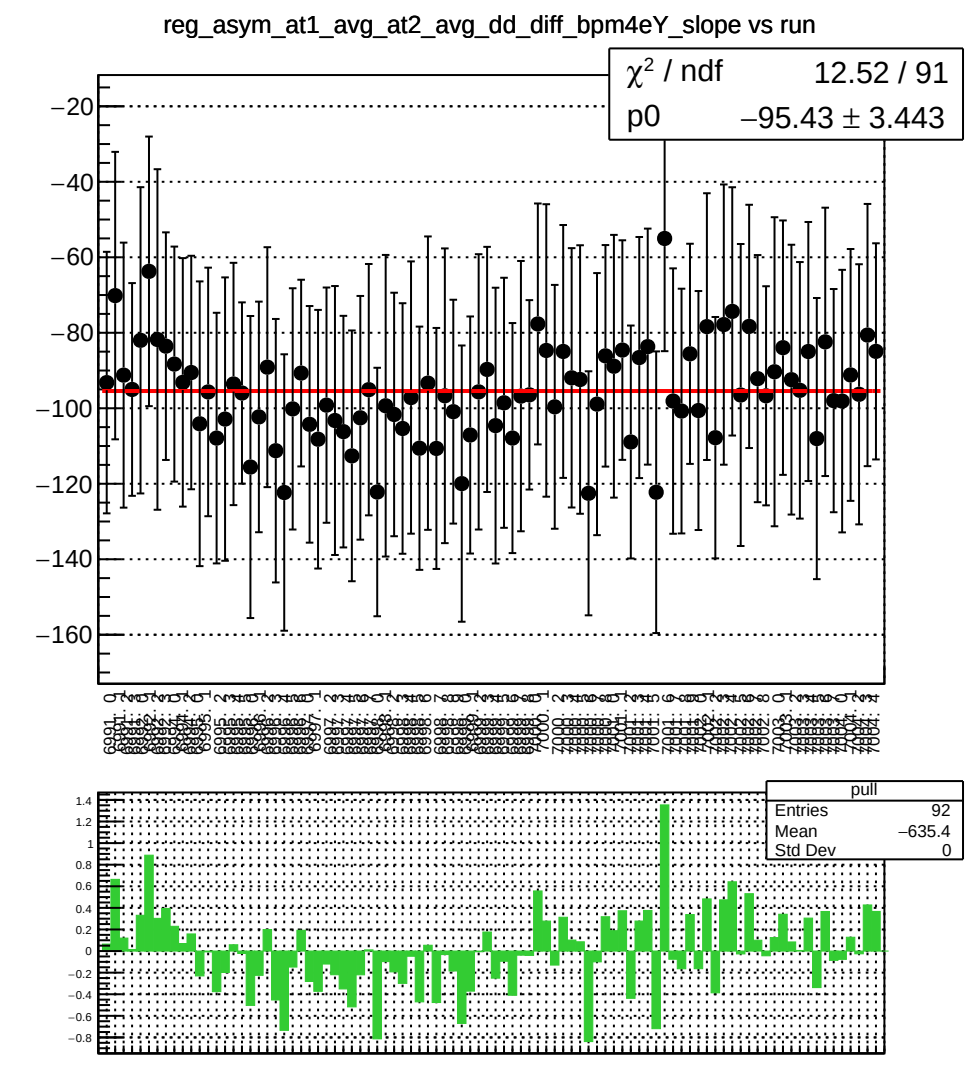

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 119.5 / 91
p0 −10.48 ± 0.04963
pull
Entries 92
Mean 969.2
Std Dev 0

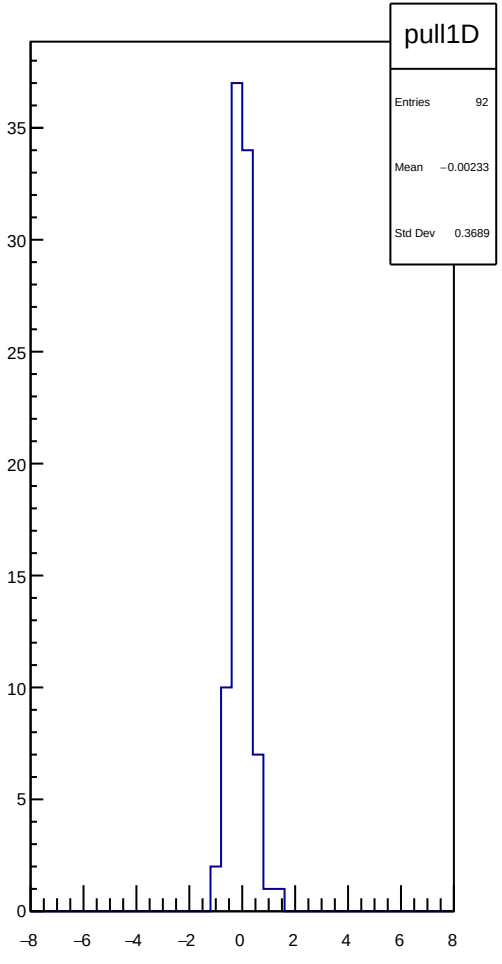

pull1D
Entries 92
Mean −0.01067
Std Dev 1.14

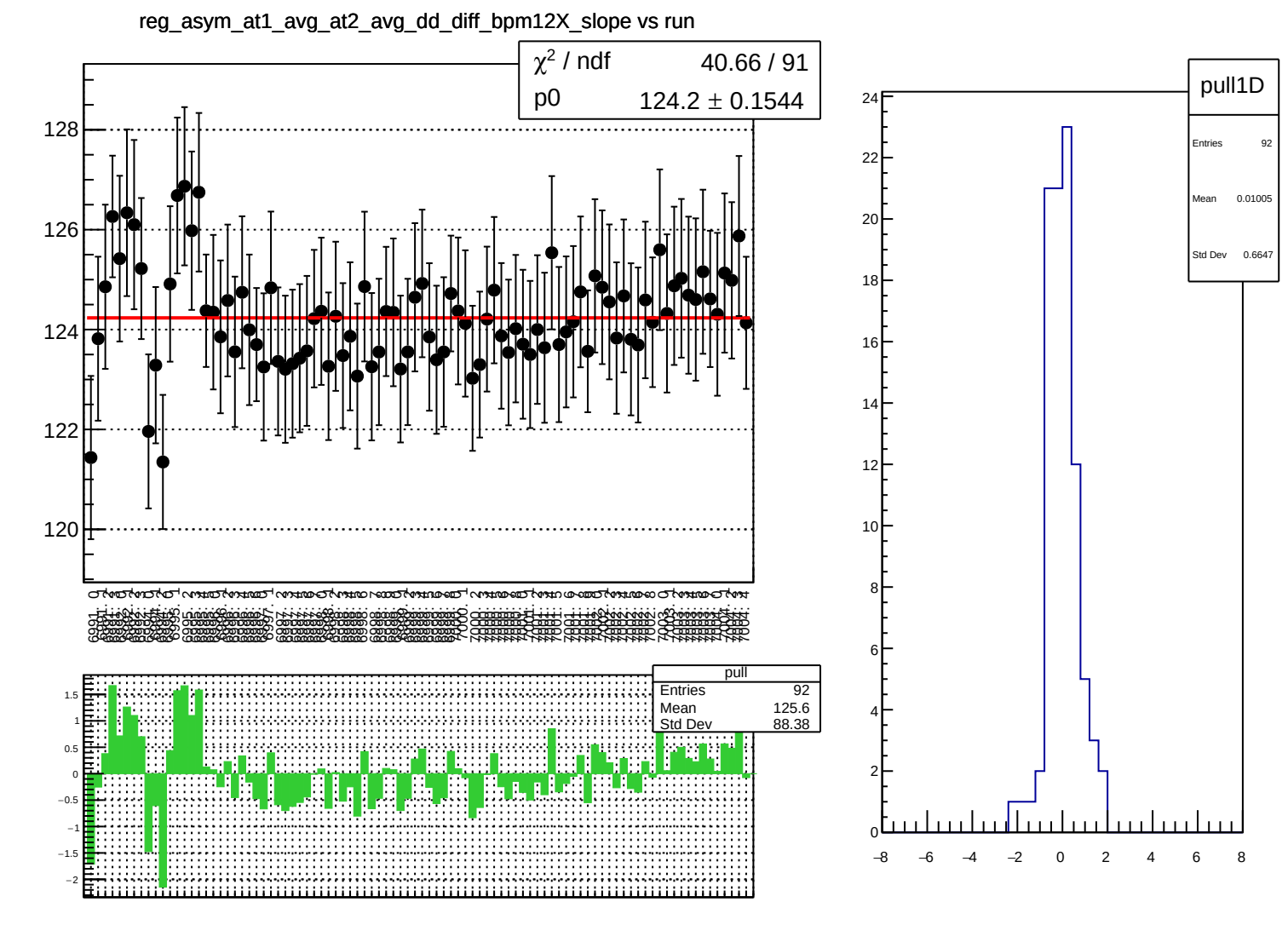

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 12.45 / 91
p0 247.5 ± 4.806
350
300
250
200
150
pull
Entries 92
Mean 1311
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean 0.000914
Std Dev 0.3679
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

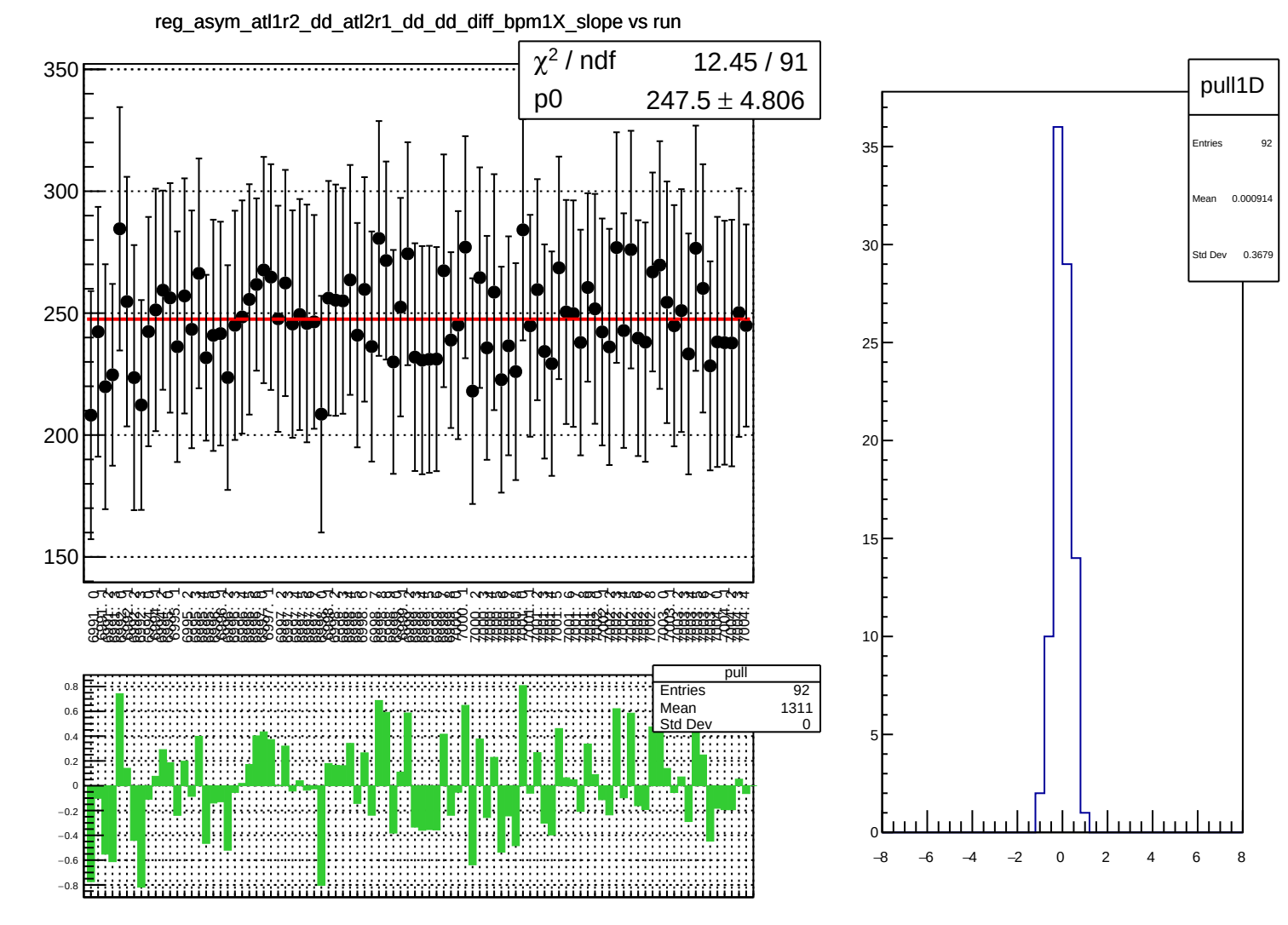

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.83 / 91
p0 17.46 ± 3.275
pull
Entries 92
Mean −140.4
Std Dev 0
pull1D
Entries 92
Mean 0.006149
Std Dev 0.3586

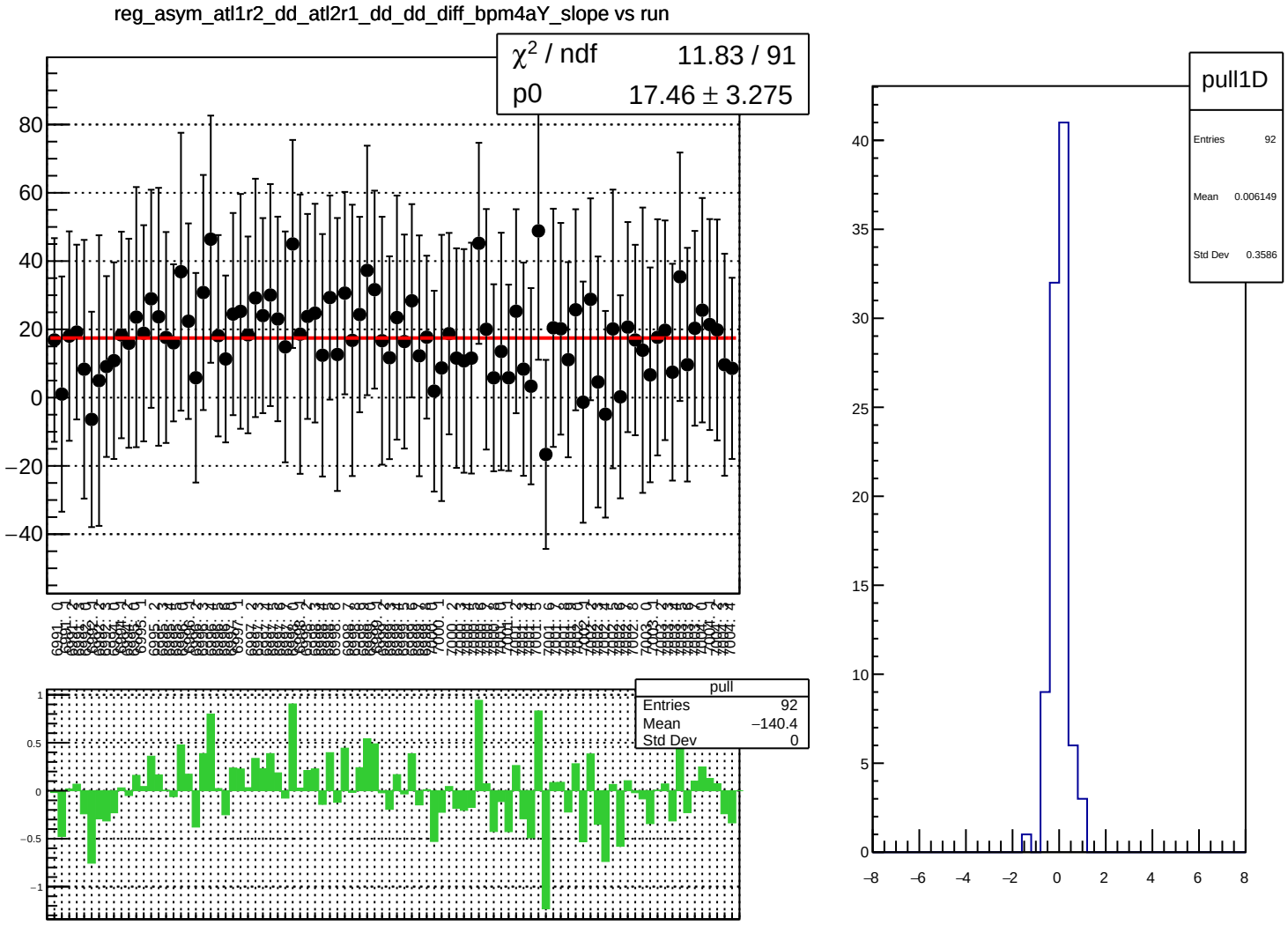

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.74 / 91
p0 −246.3 ± 4.431
pull
Entries 92
Mean 816.5
Std Dev 0
pull1D
Entries 92
Mean −0.002075
Std Dev 0.3721

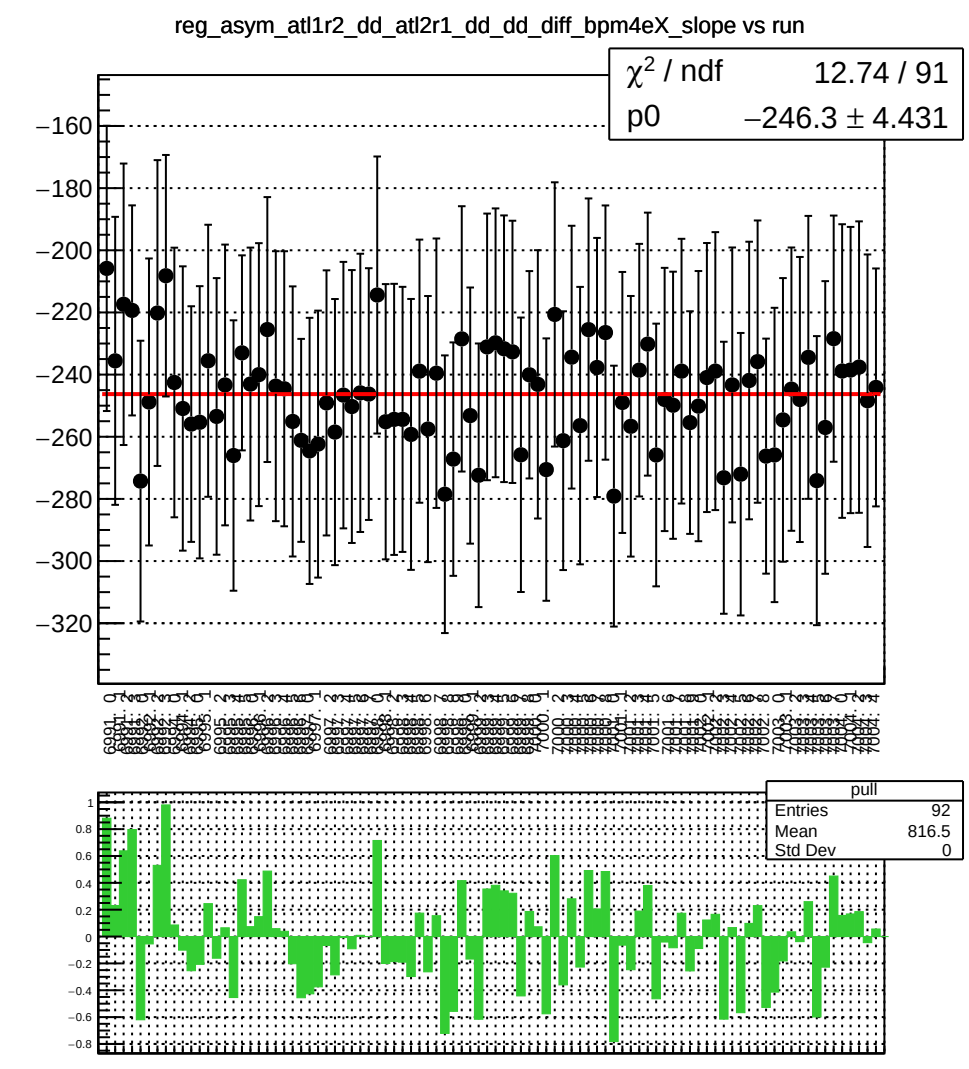

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.52 / 91
p0 −95.43 ± 3.443
pull
Entries 92
Mean −635.4
Std Dev 0

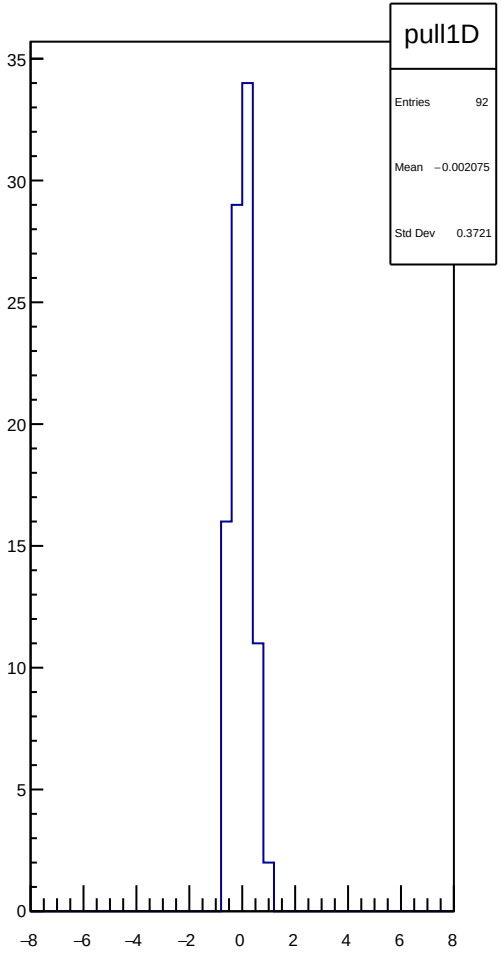

pull1D
Entries 92
Mean −0.00233
Std Dev 0.3689

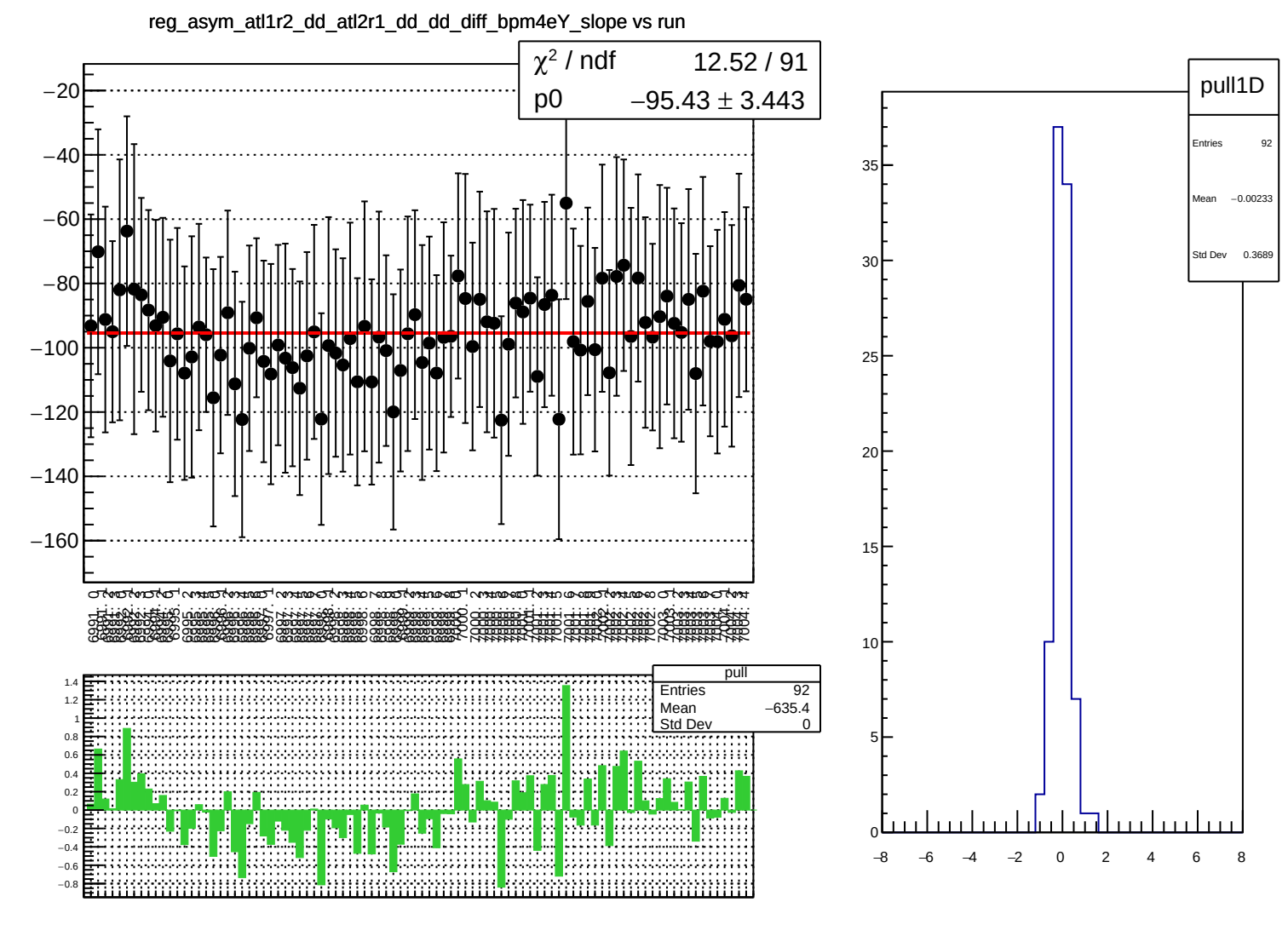

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 40.66 / 91
p0 124.2 ± 0.1544
128
126
124
122
120
pull
Entries 92
Mean 125.6
Std Dev 88.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.01005
Std Dev 0.6647
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

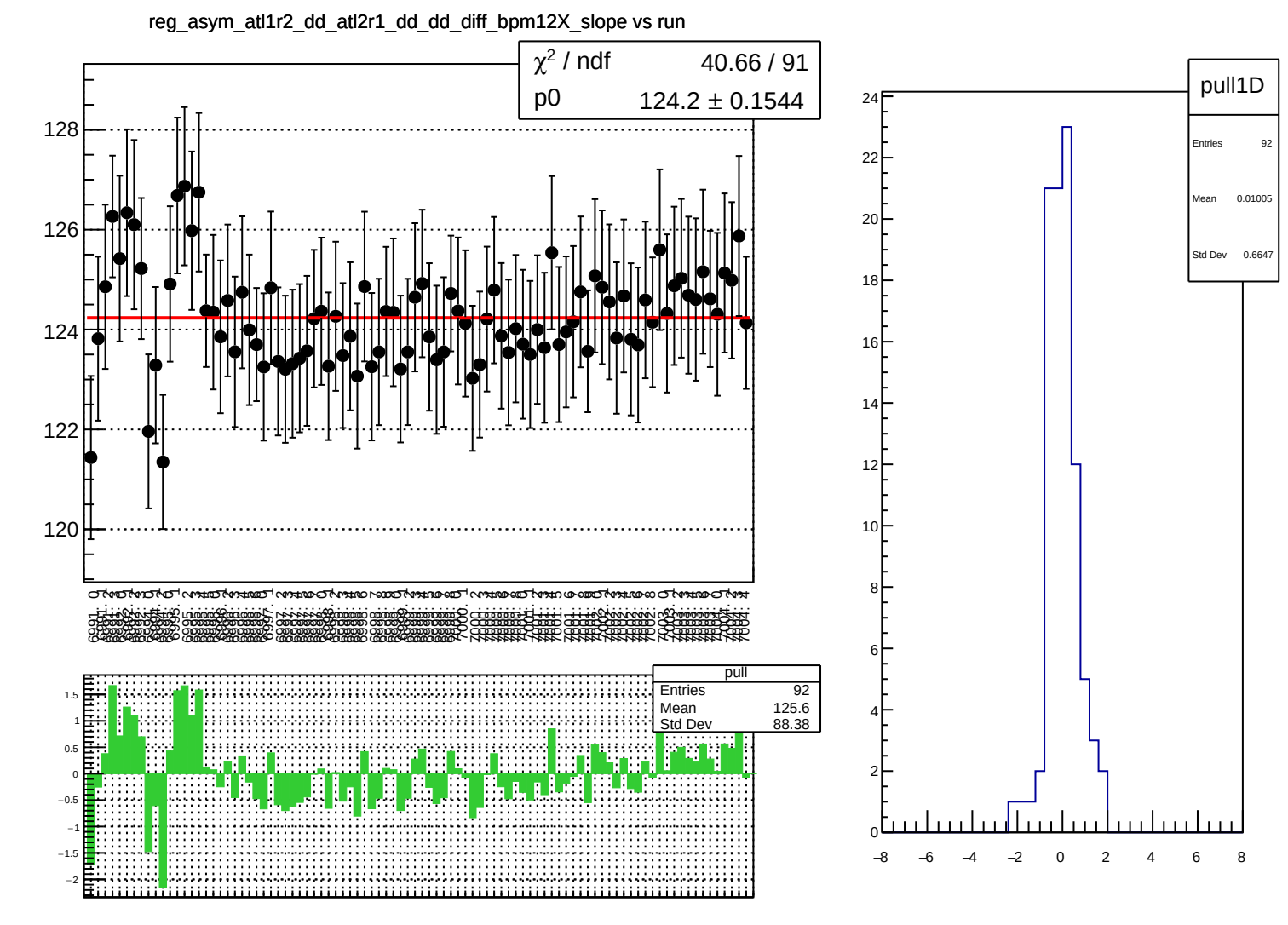

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 12.45 / 91
p0 247.5 ± 4.806
pull
Entries 92
Mean 1311
Std Dev 0
pull1D
Entries 92
Mean 0.000914
Std Dev 0.3679

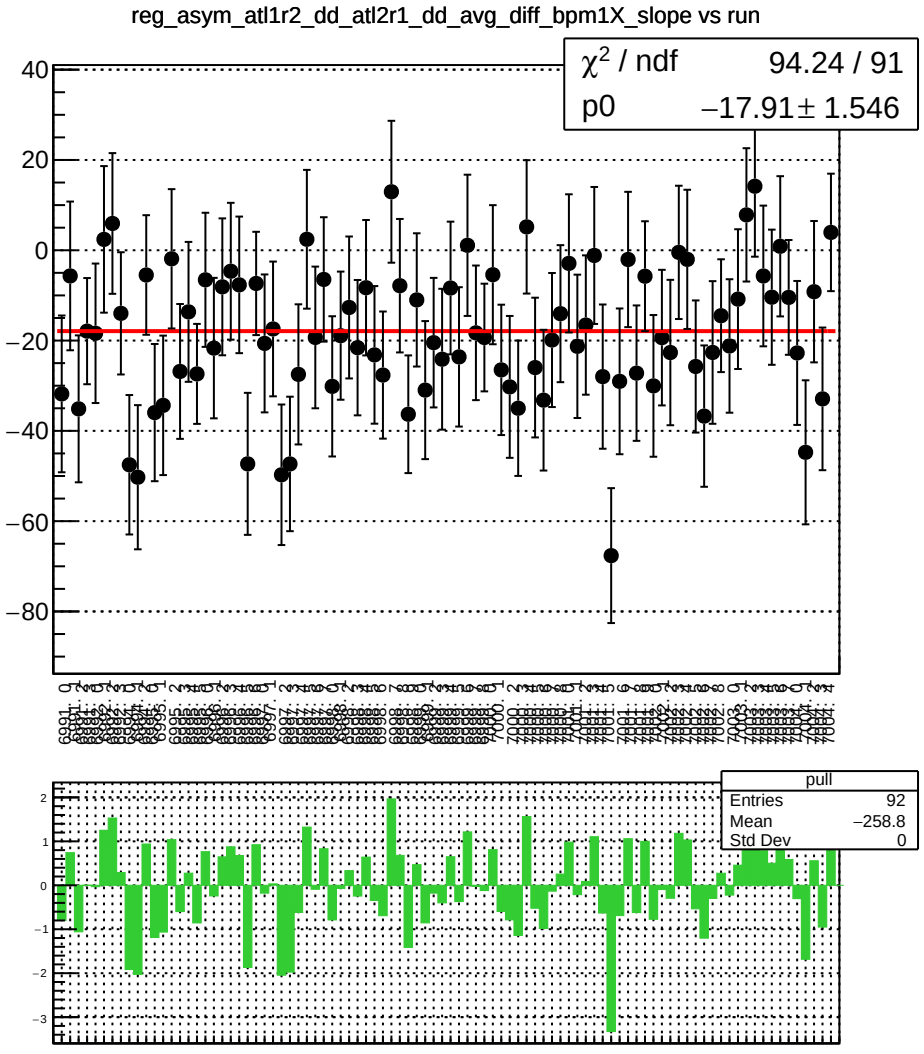

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.83 / 91
p0 17.46 ± 3.275
pull
Entries 92
Mean −140.4
Std Dev 0
pull1D
Entries 92
Mean 0.006149
Std Dev 0.3586

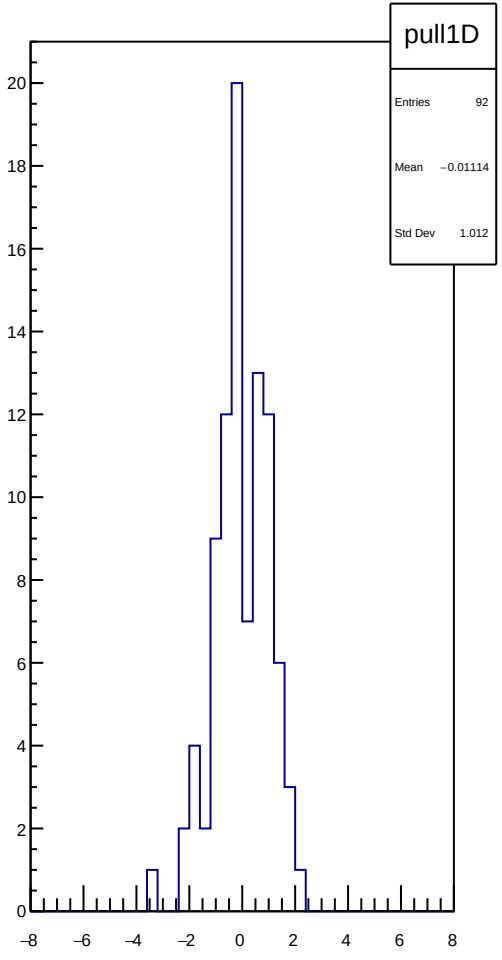

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.74 / 91
p0 −246.3 ± 4.431
pull
Entries 92
Mean 816.5
Std Dev 0

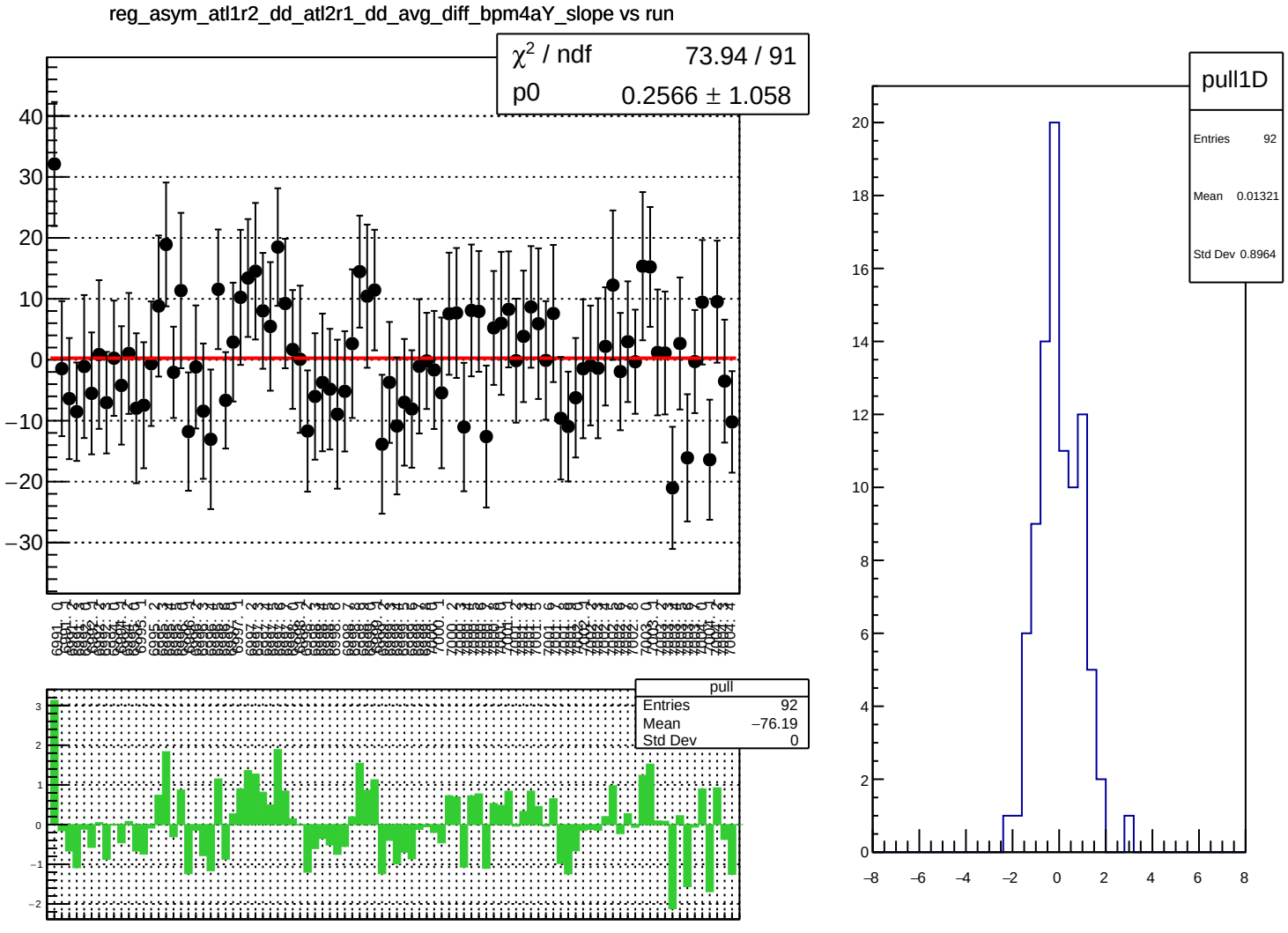

pull1D
Entries 92
Mean −0.002075
Std Dev 0.3721

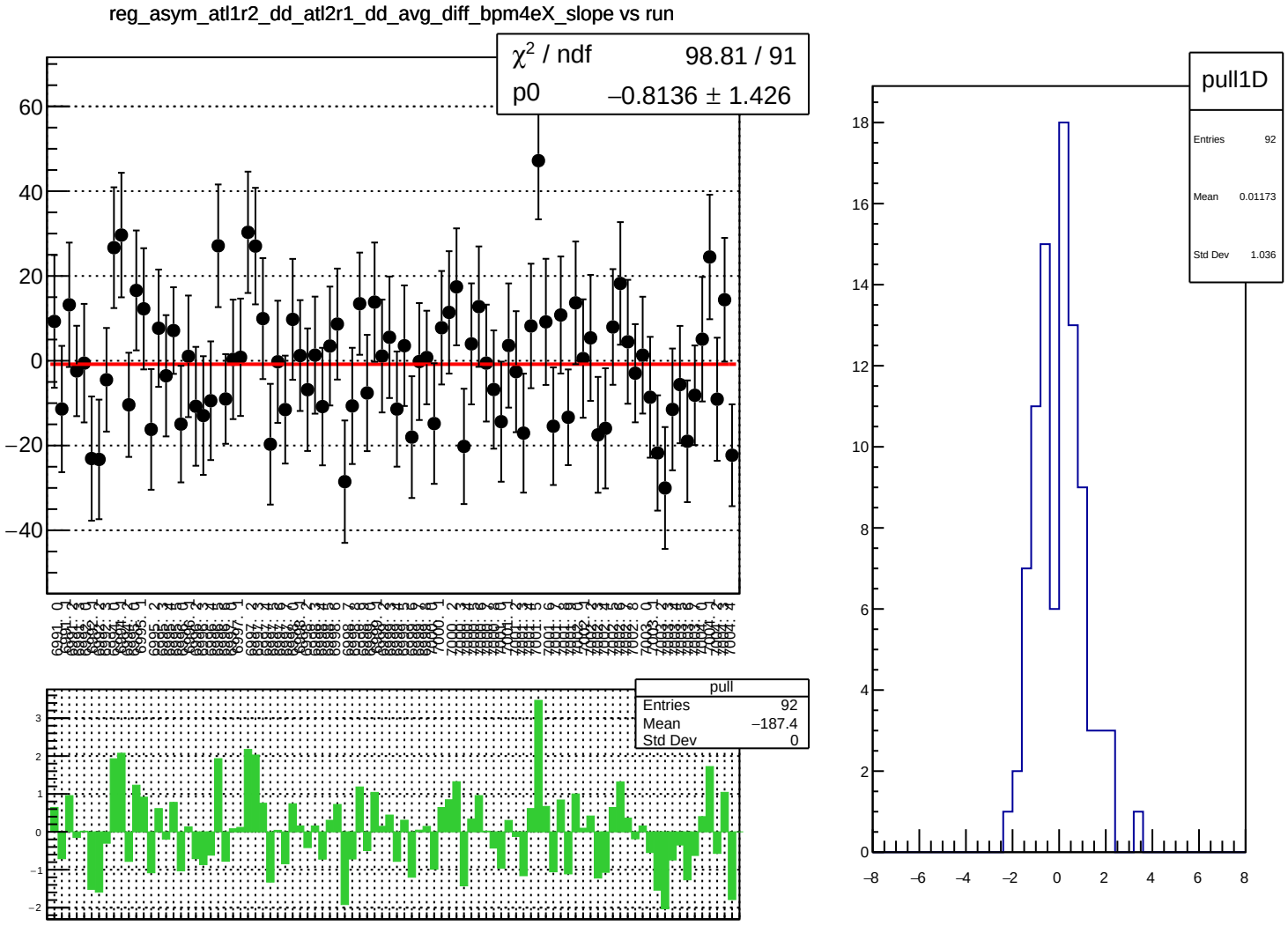

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.52 / 91
p0 −95.43 ± 3.443
pull
Entries 92
Mean −635.4
Std Dev 0
pull1D
Entries 92
Mean −0.00233
Std Dev 0.3689

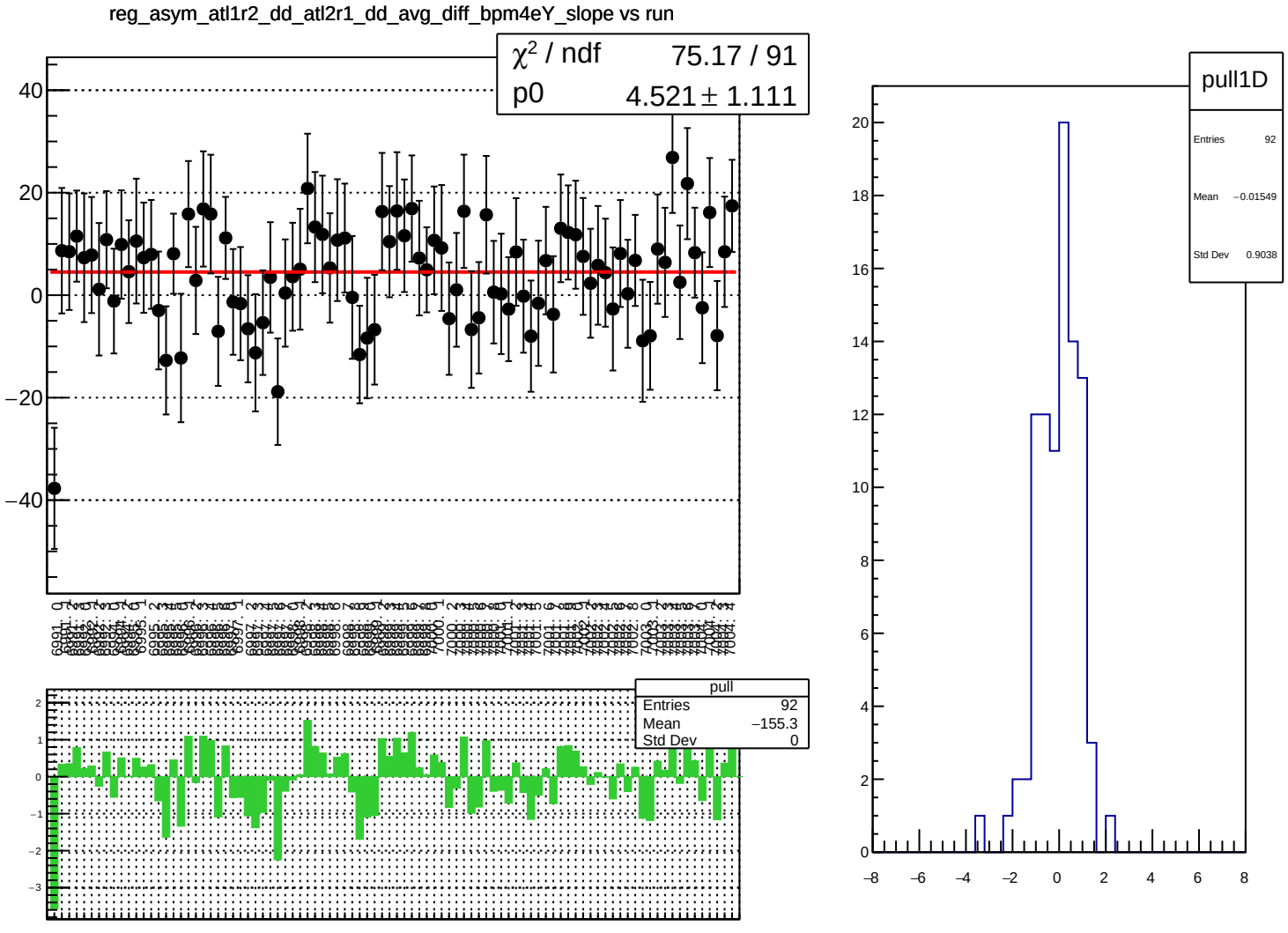

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 40.66 / 91
p0 124.2 ± 0.1544
128
126
124
122
120
pull
Entries 92
Mean 125.6
Std Dev 88.38
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.01005
Std Dev 0.6647
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

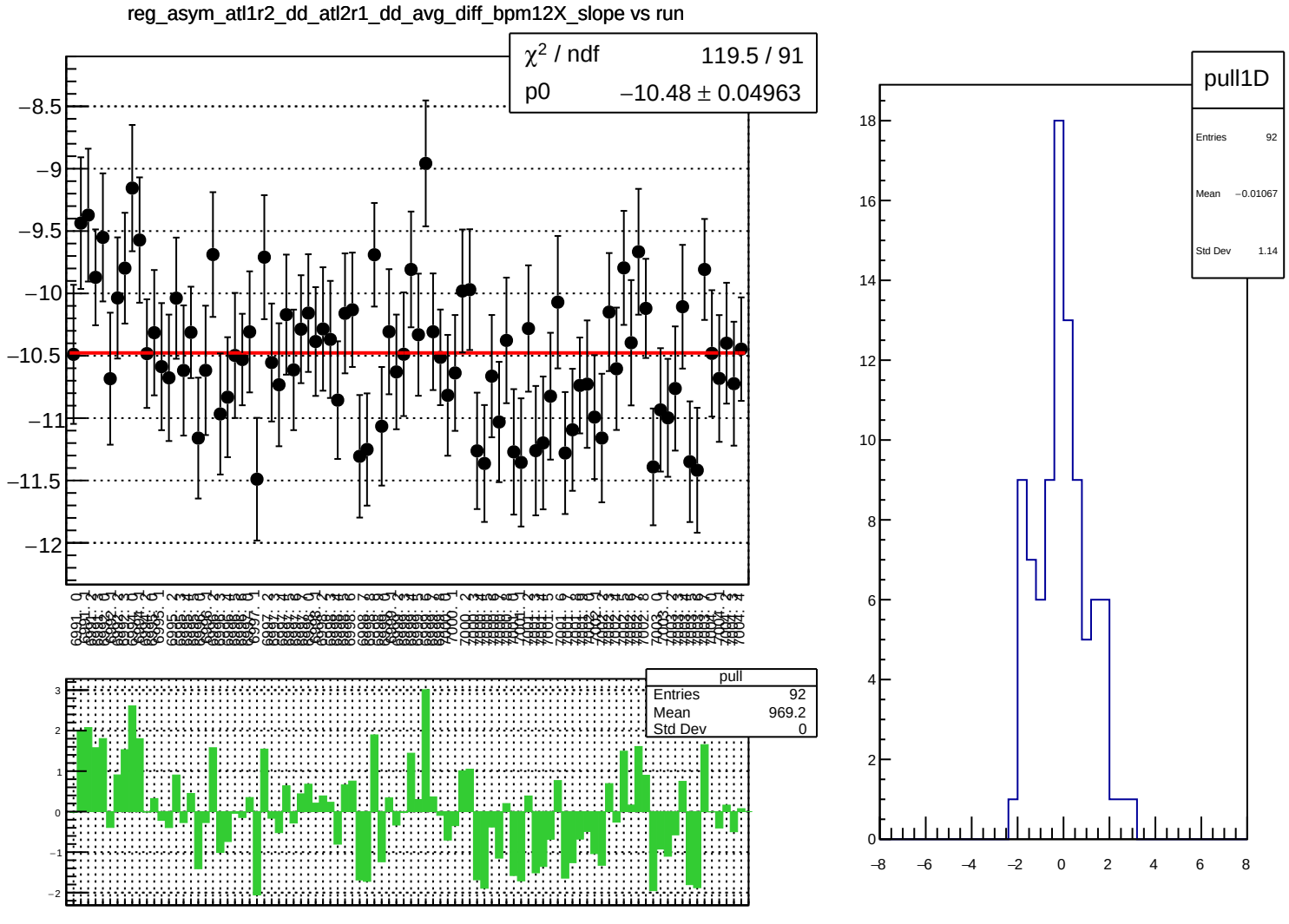

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 94.24 / 91
p0 −17.91± 1.546
pull
Entries 92
Mean −258.8
Std Dev 0

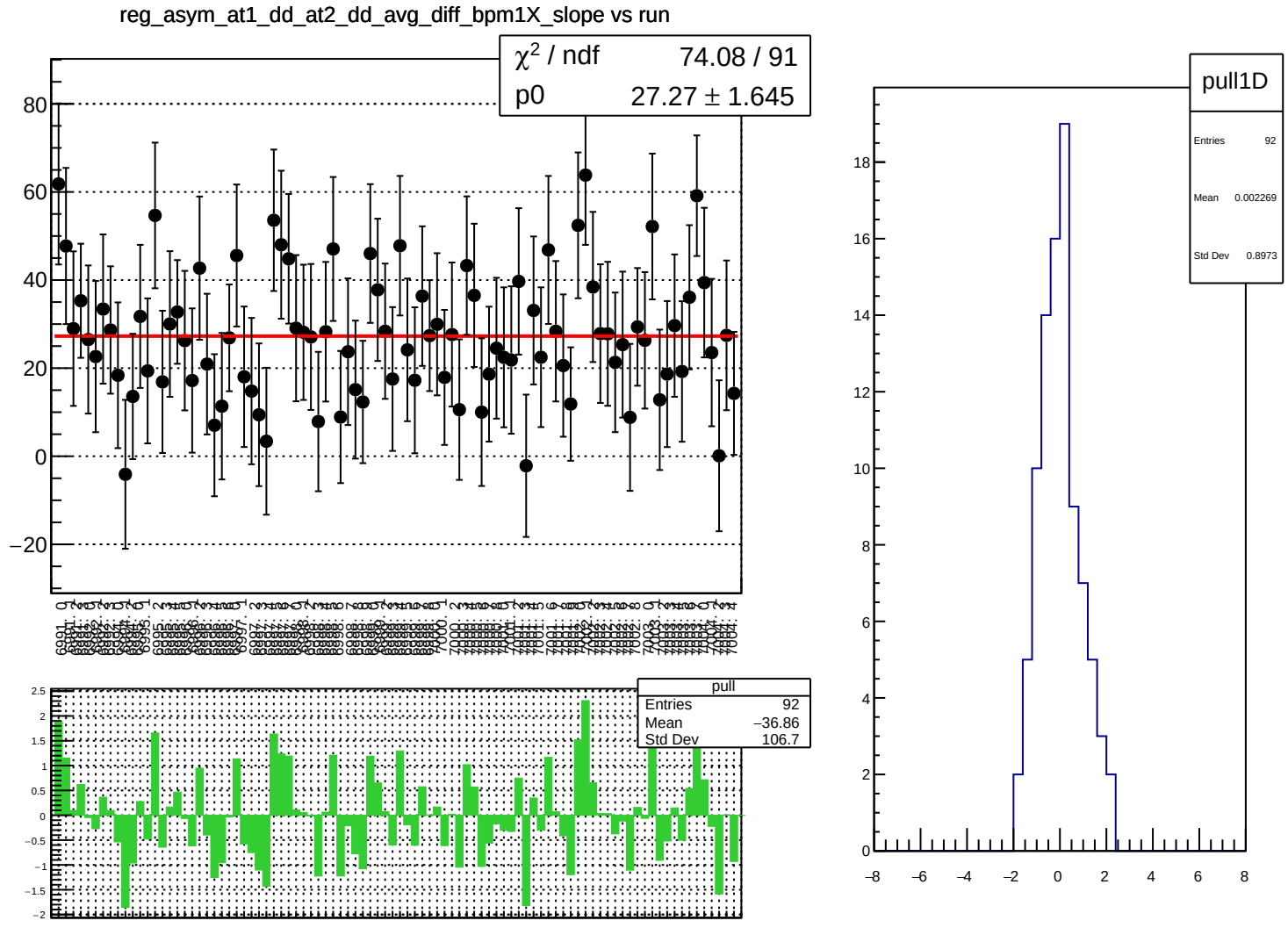

pull1D
Entries 92
Mean −0.01114
Std Dev 1.012

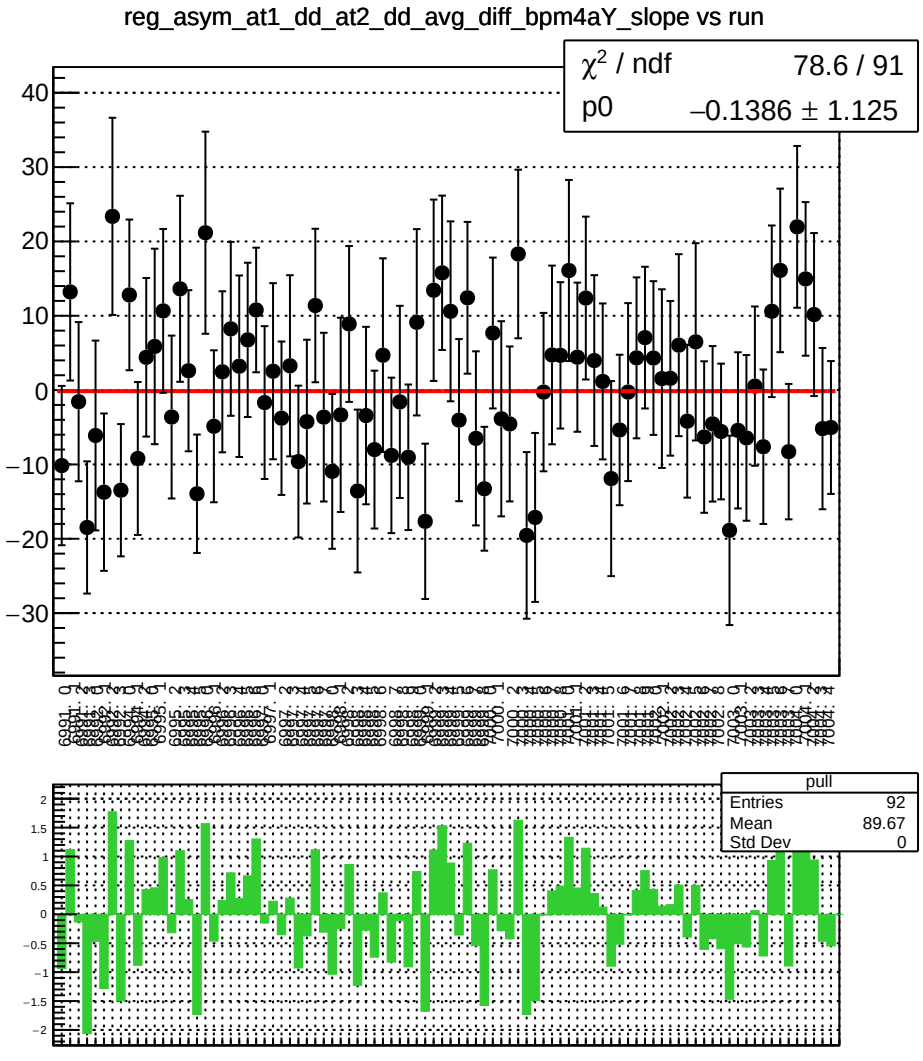

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.94 / 91
p0 0.2566 ± 1.058
pull
Entries 92
Mean −76.19
Std Dev 0
pull1D
Entries 92
Mean 0.01321
Std Dev 0.8964

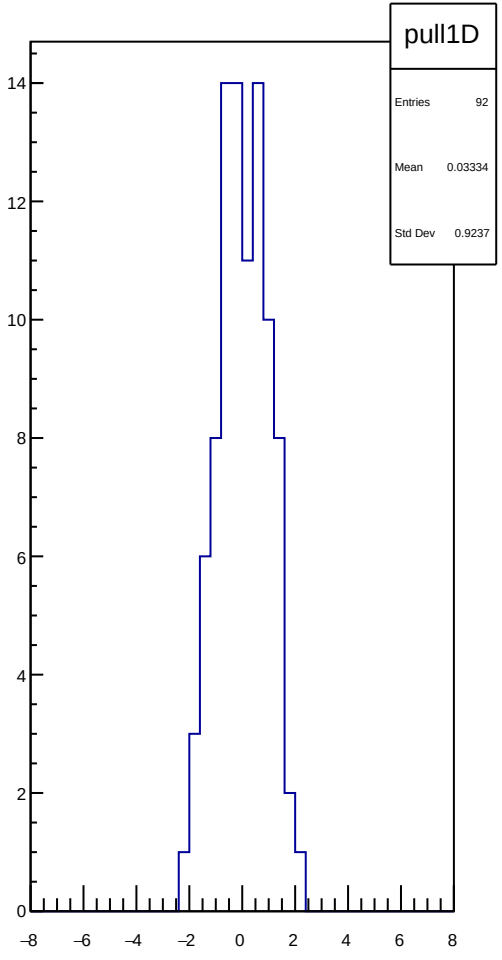

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 98.81 / 91
p0 −0.8136 ± 1.426
pull
Entries 92
Mean −187.4
Std Dev 0
pull1D
Entries 92
Mean 0.01173
Std Dev 1.036

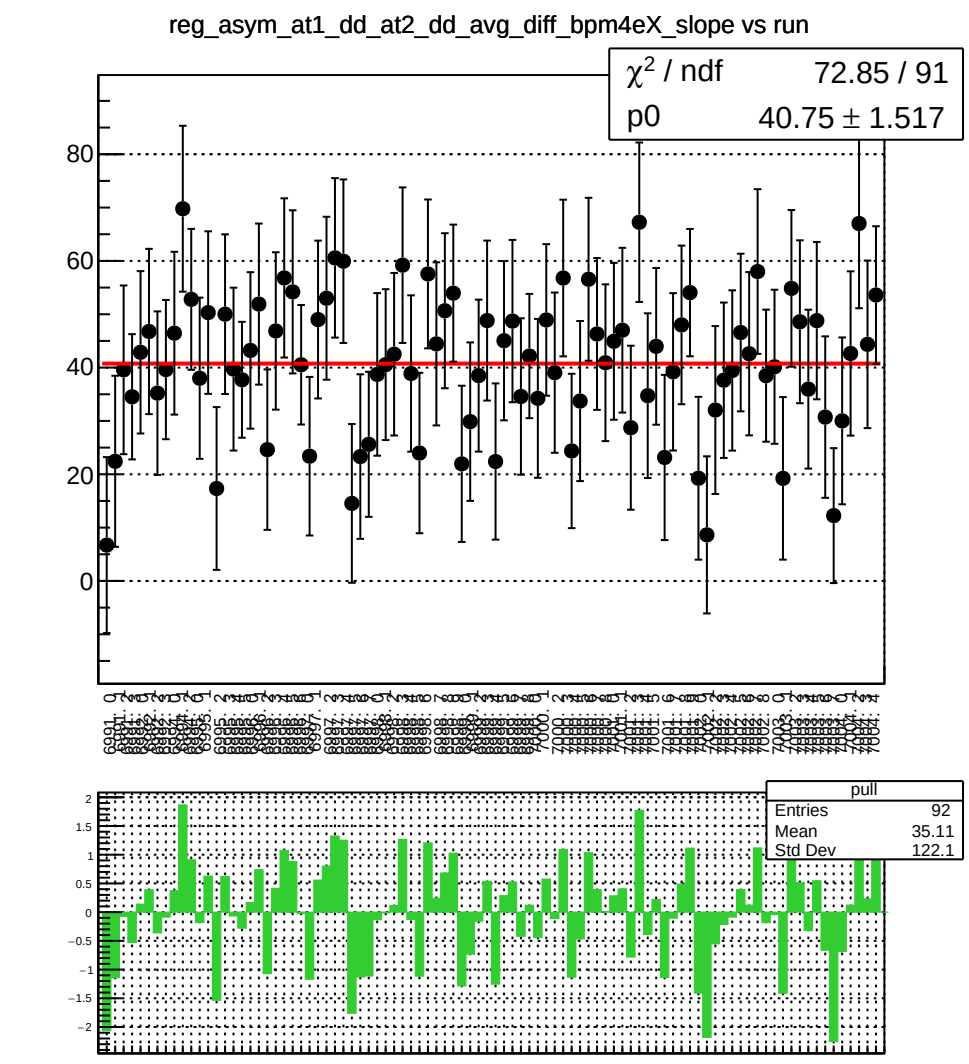

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.17 / 91
p0 4.521 ± 1.111
pull
Entries 92
Mean −155.3
Std Dev 0
pull1D
Entries 92
Mean −0.01549
Std Dev 0.9038

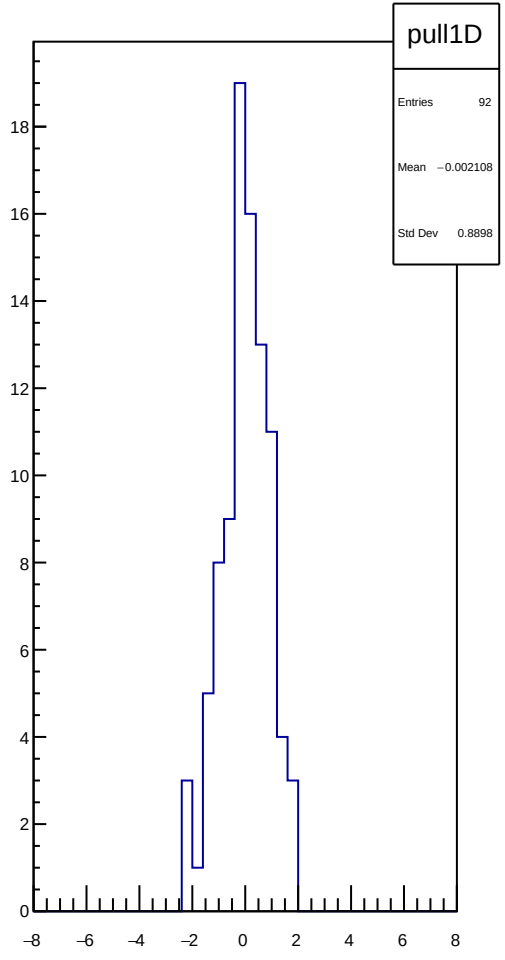

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 119.5 / 91
p0 −10.48 ± 0.04963
−8.5
−9
−9.5
−10
−10.5
−11
−11.5
−12
pull
Entries 92
Mean 969.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01067
Std Dev 1.14
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

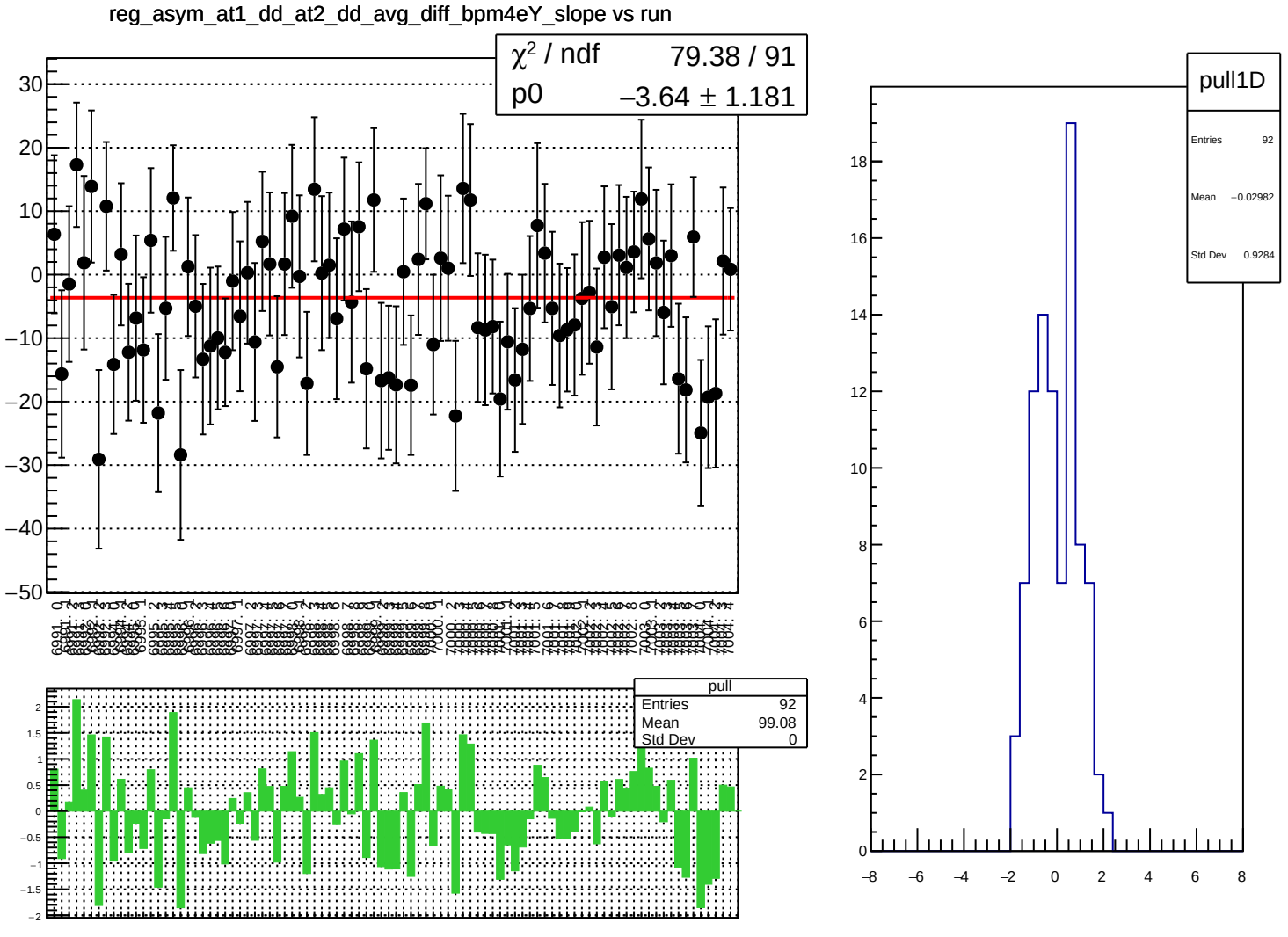

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 74.08 / 91
p0 27.27 ± 1.645
pull
Entries 92
Mean −36.86
Std Dev 106.7
pull1D
Entries 92
Mean 0.002269
Std Dev 0.8973

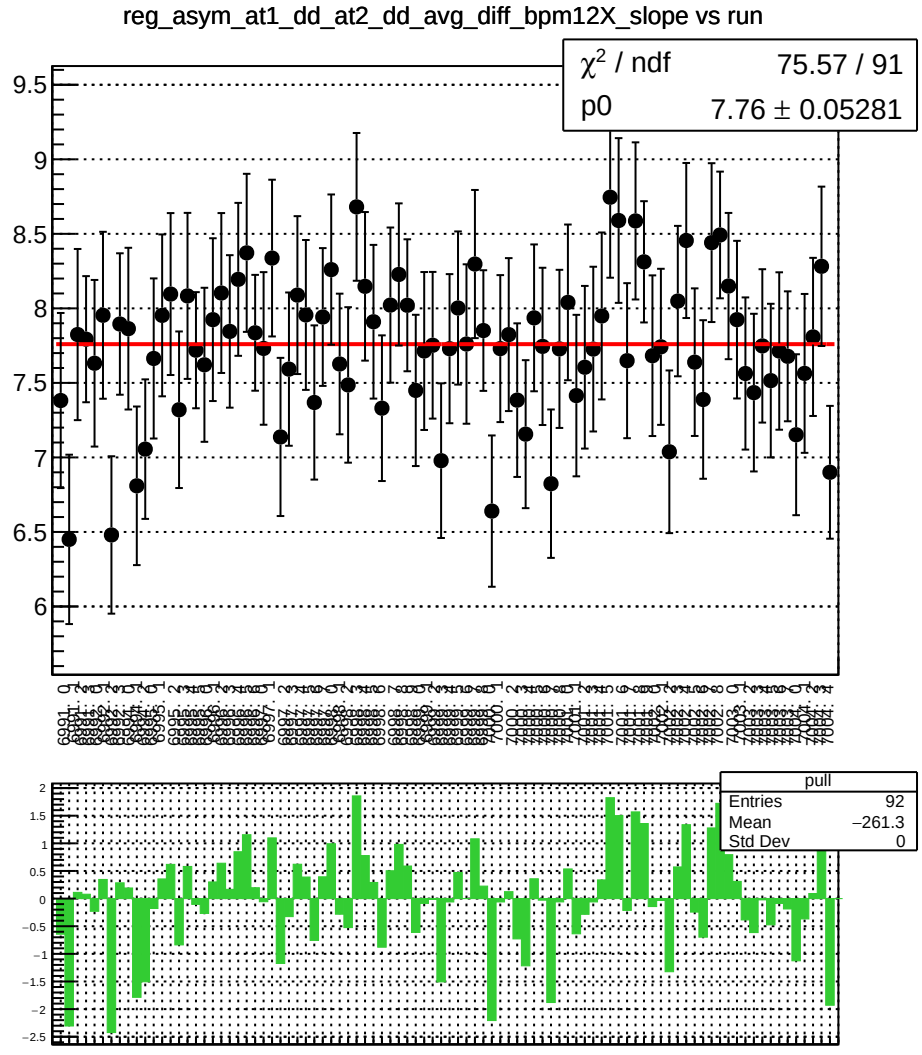

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.6 / 91
p0 −0.1386 ± 1.125
pull
Entries 92
Mean 89.67
Std Dev 0

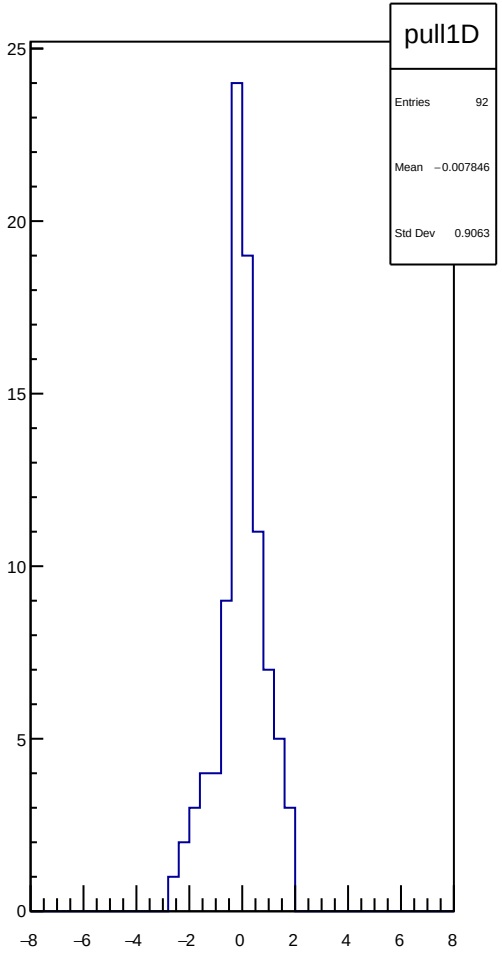

pull1D
Entries 92
Mean 0.03334
Std Dev 0.9237

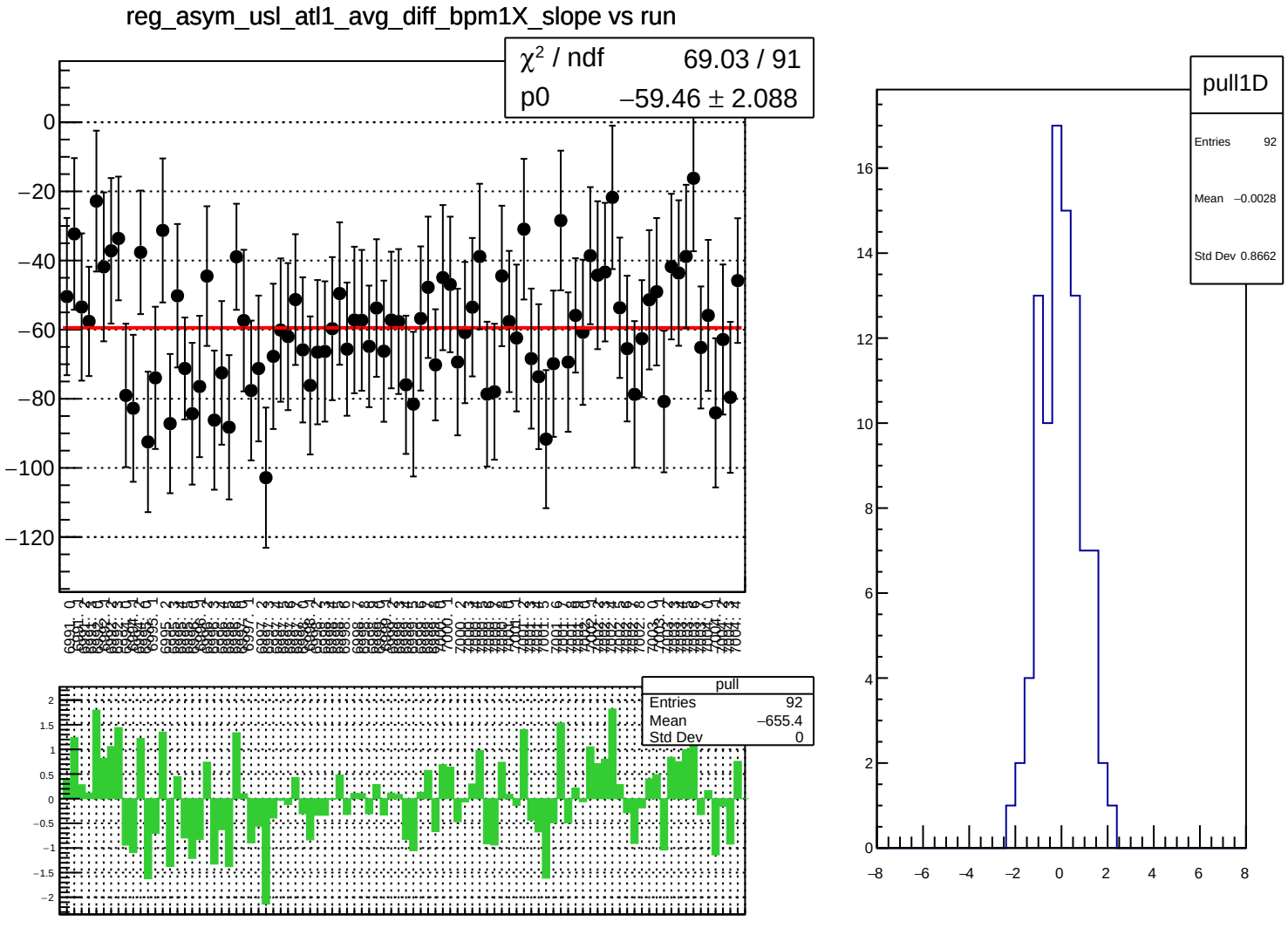

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.85 / 91
p0 40.75 ± 1.517
pull
Entries 92
Mean 35.11
Std Dev 122.1

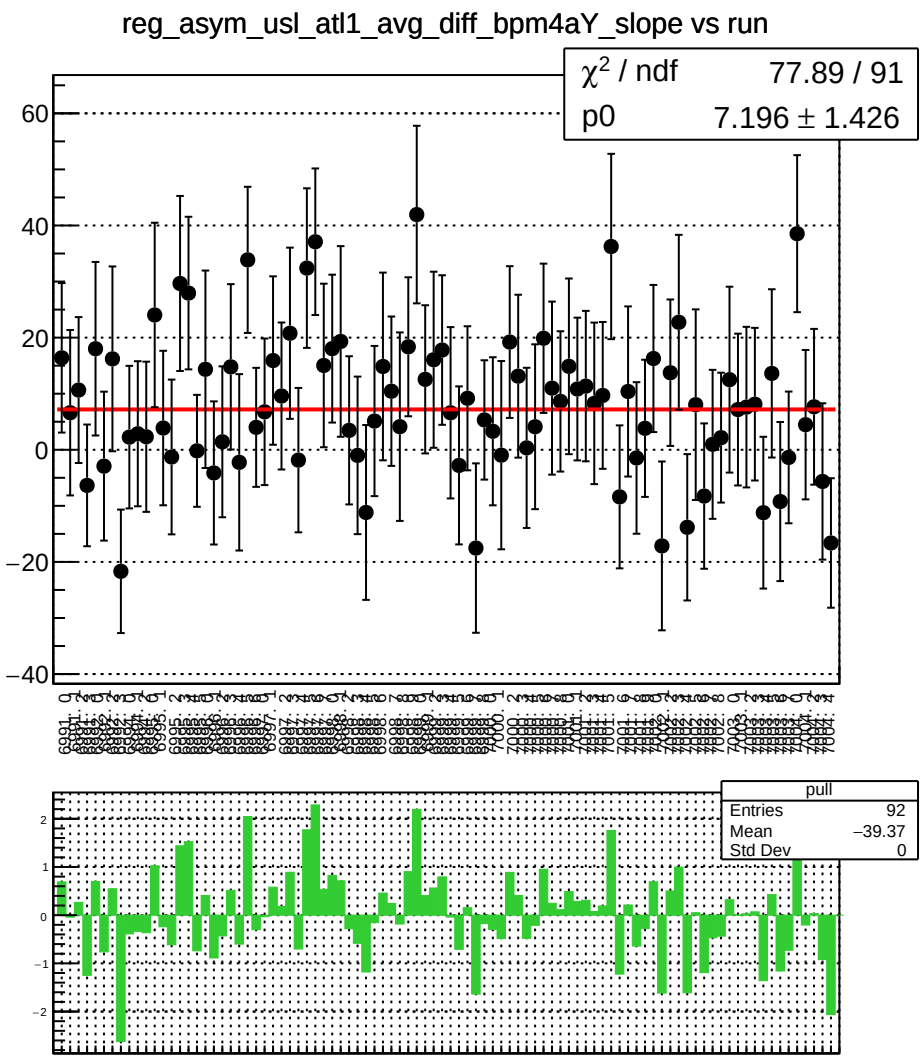

pull1D
Entries 92
Mean −0.002108
Std Dev 0.8898

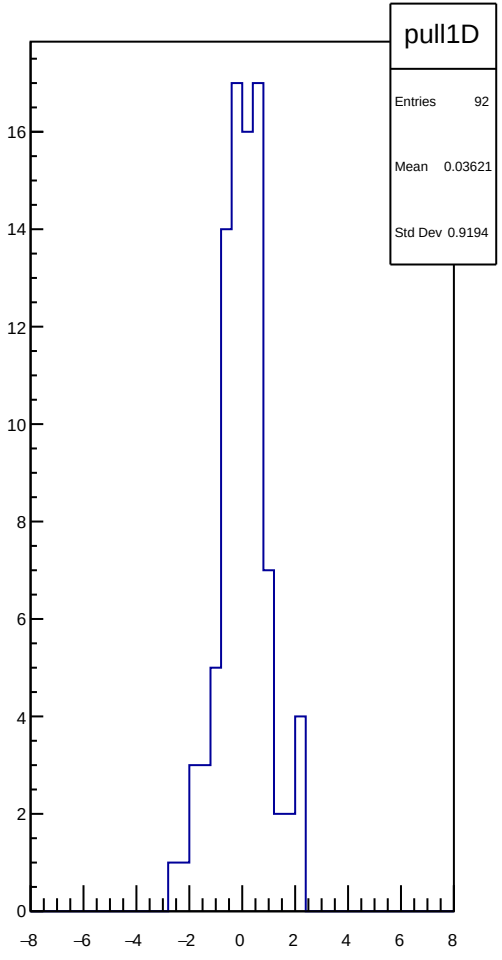

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.38 / 91
p0 −3.64 ± 1.181
pull
Entries 92
Mean 99.08
Std Dev 0
pull1D
Entries 92
Mean −0.02982
Std Dev 0.9284

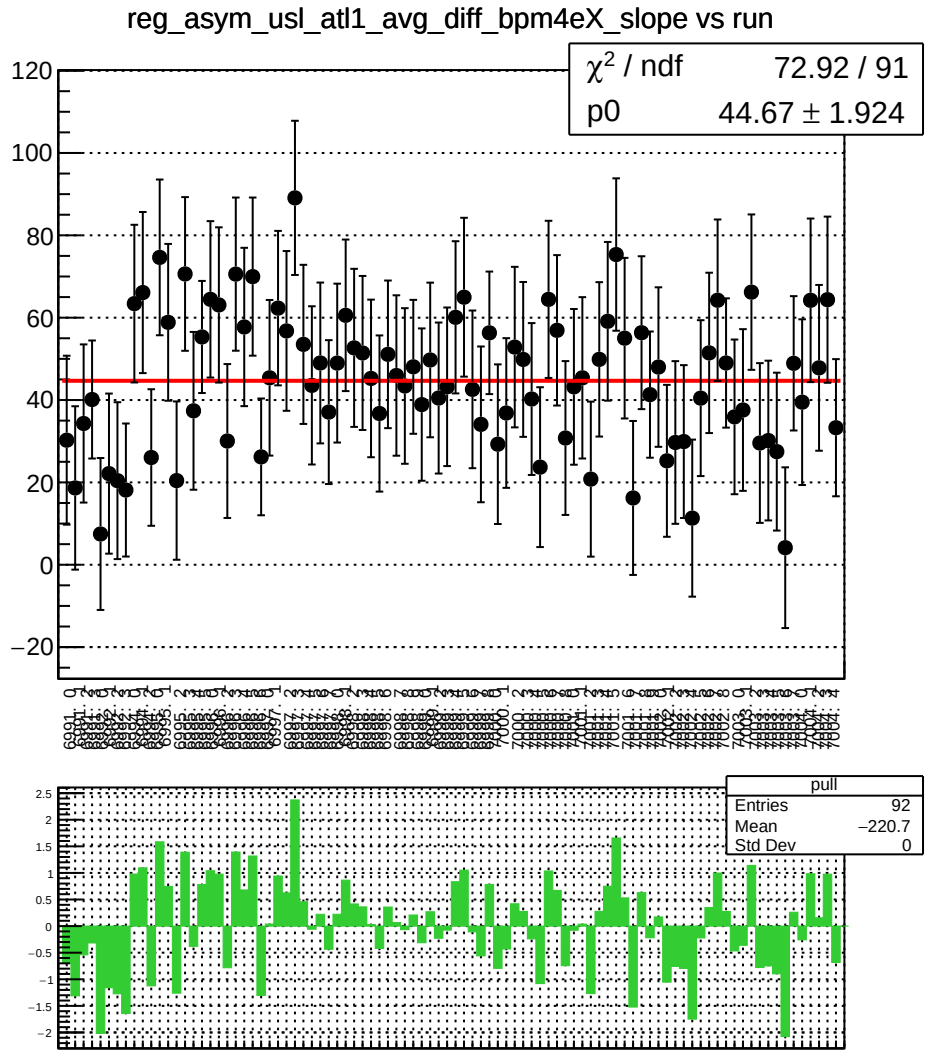

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 75.57 / 91
p0 7.76 ± 0.05281
pull
Entries 92
Mean −261.3
Std Dev 0

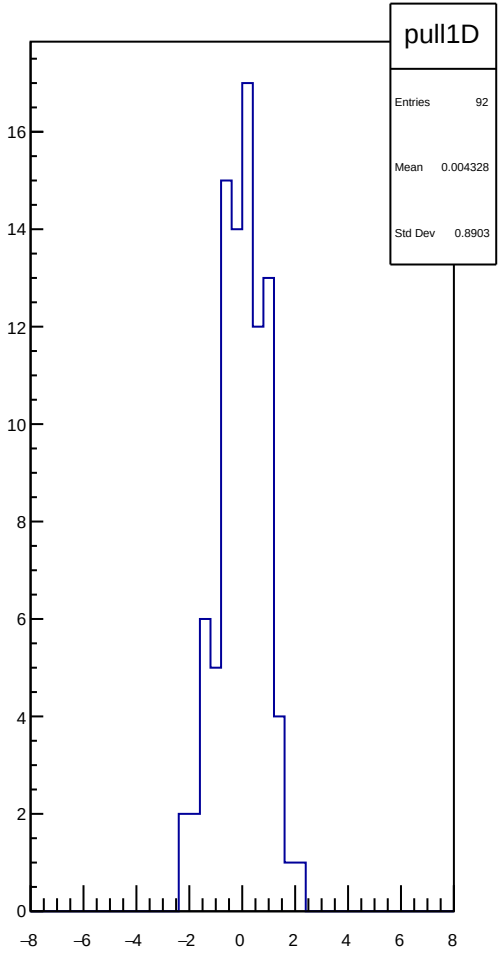

pull1D
Entries 92
Mean −0.007846
Std Dev 0.9063

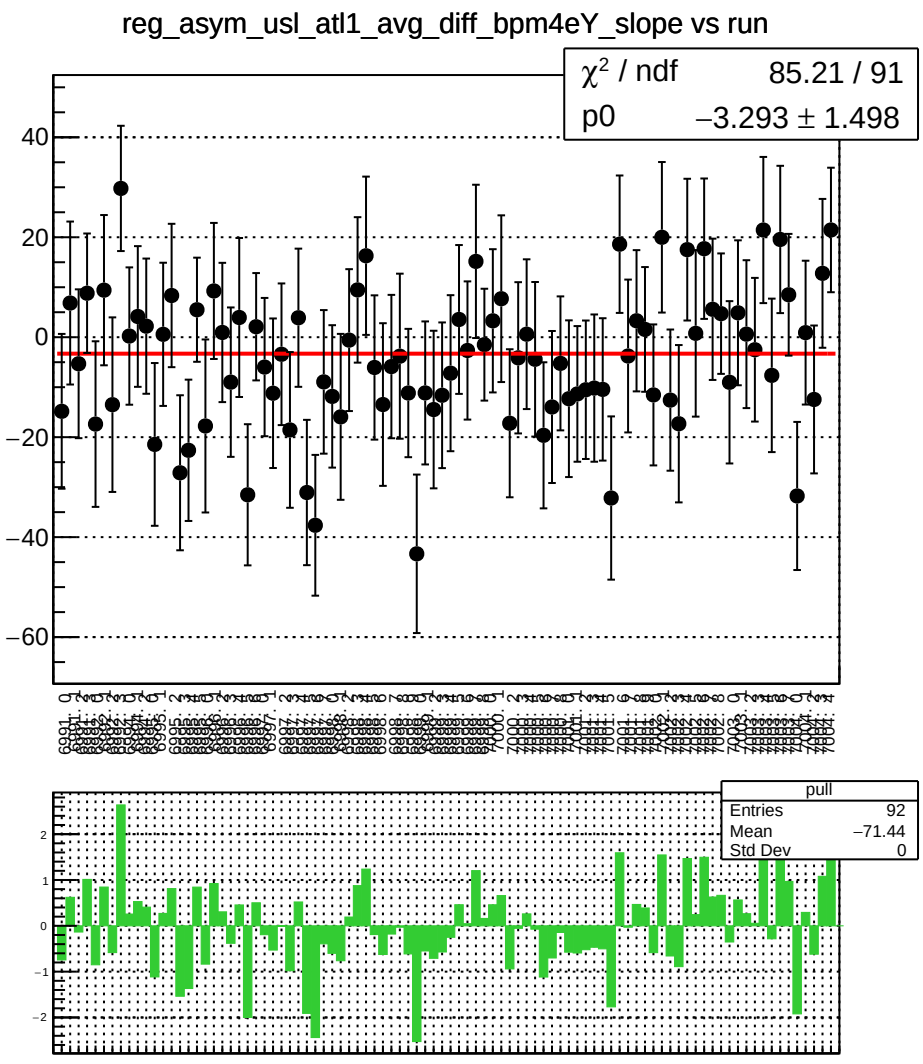

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 69.03 / 91
p0 −59.46 ± 2.088
pull
Entries 92
Mean −655.4
Std Dev 0
pull1D
Entries 92
Mean −0.0028
Std Dev 0.8662

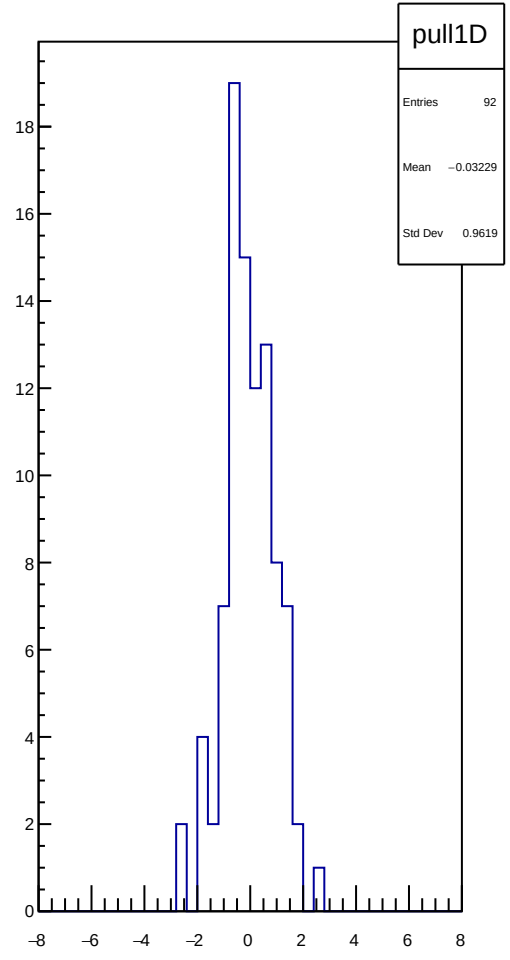

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.89 / 91
p0 7.196 ± 1.426
pull
Entries 92
Mean −39.37
Std Dev 0

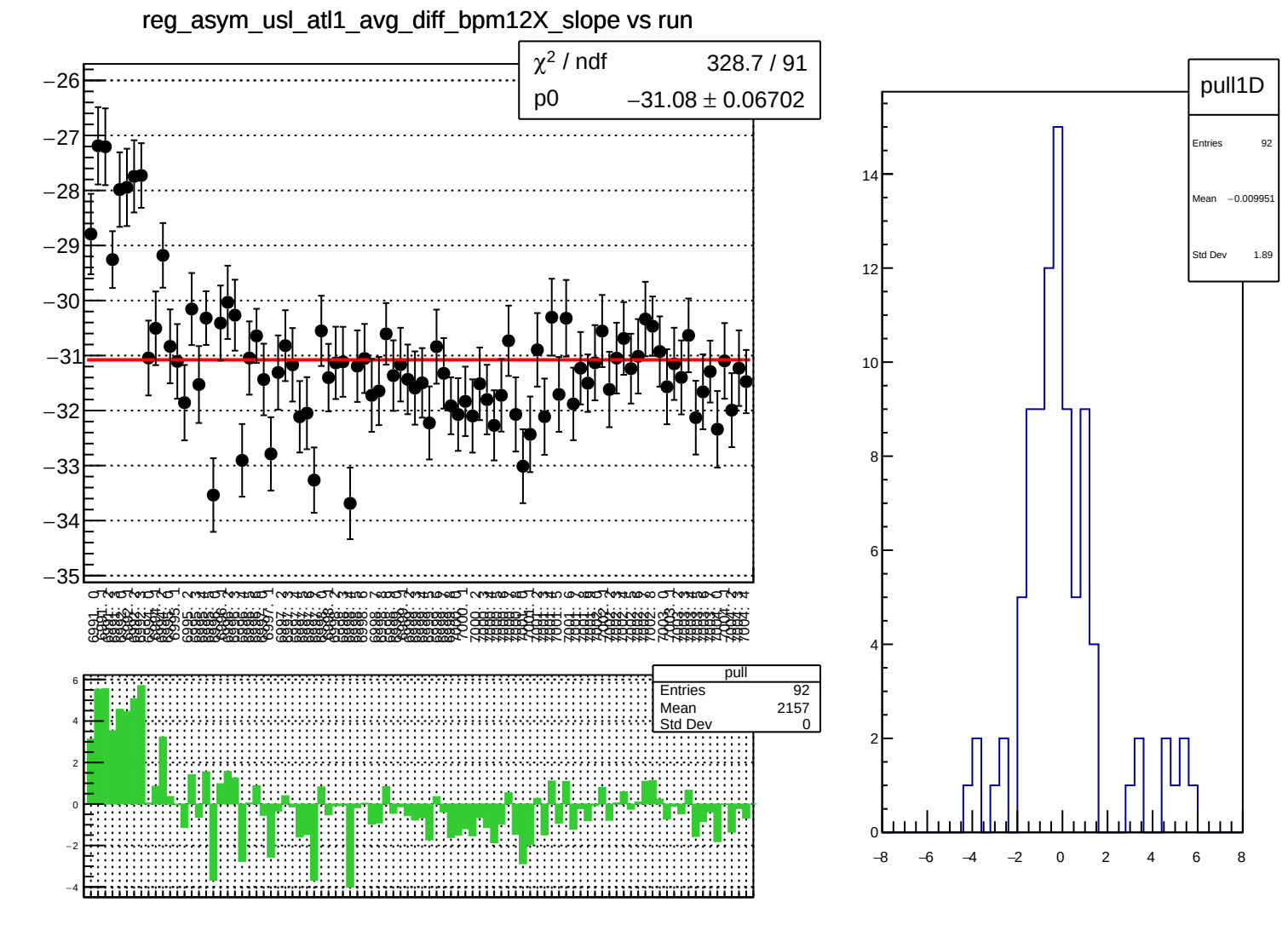

pull1D
Entries 92
Mean 0.03621
Std Dev 0.9194

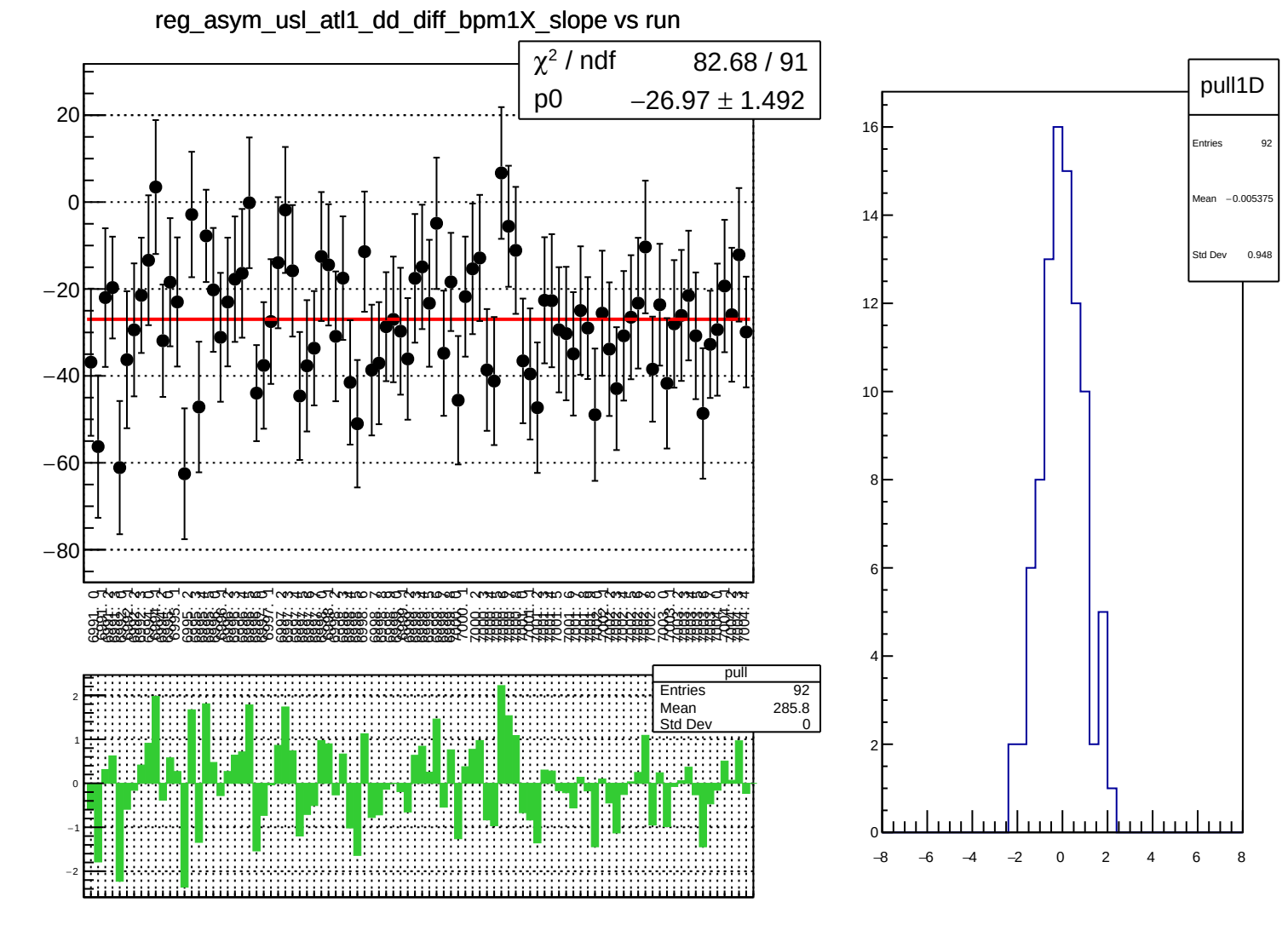

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.92 / 91
p0 44.67 ± 1.924
pull
Entries 92
Mean −220.7
Std Dev 0

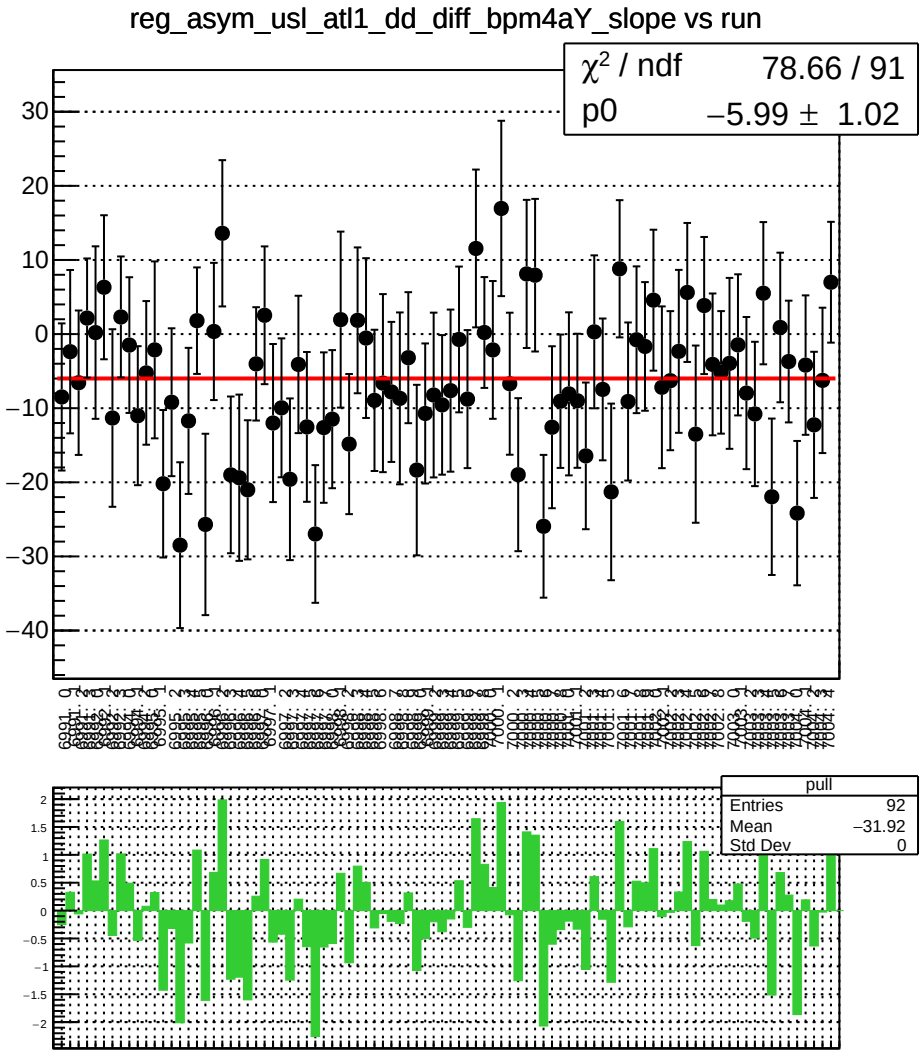

pull1D
Entries 92
Mean 0.004328
Std Dev 0.8903

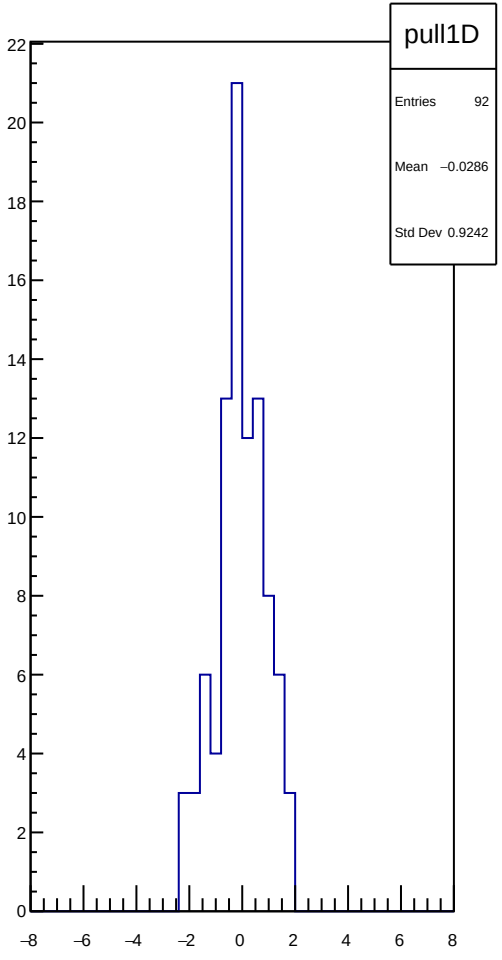

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.21 / 91
p0 −3.293 ± 1.498
pull
Entries 92
Mean −71.44
Std Dev 0

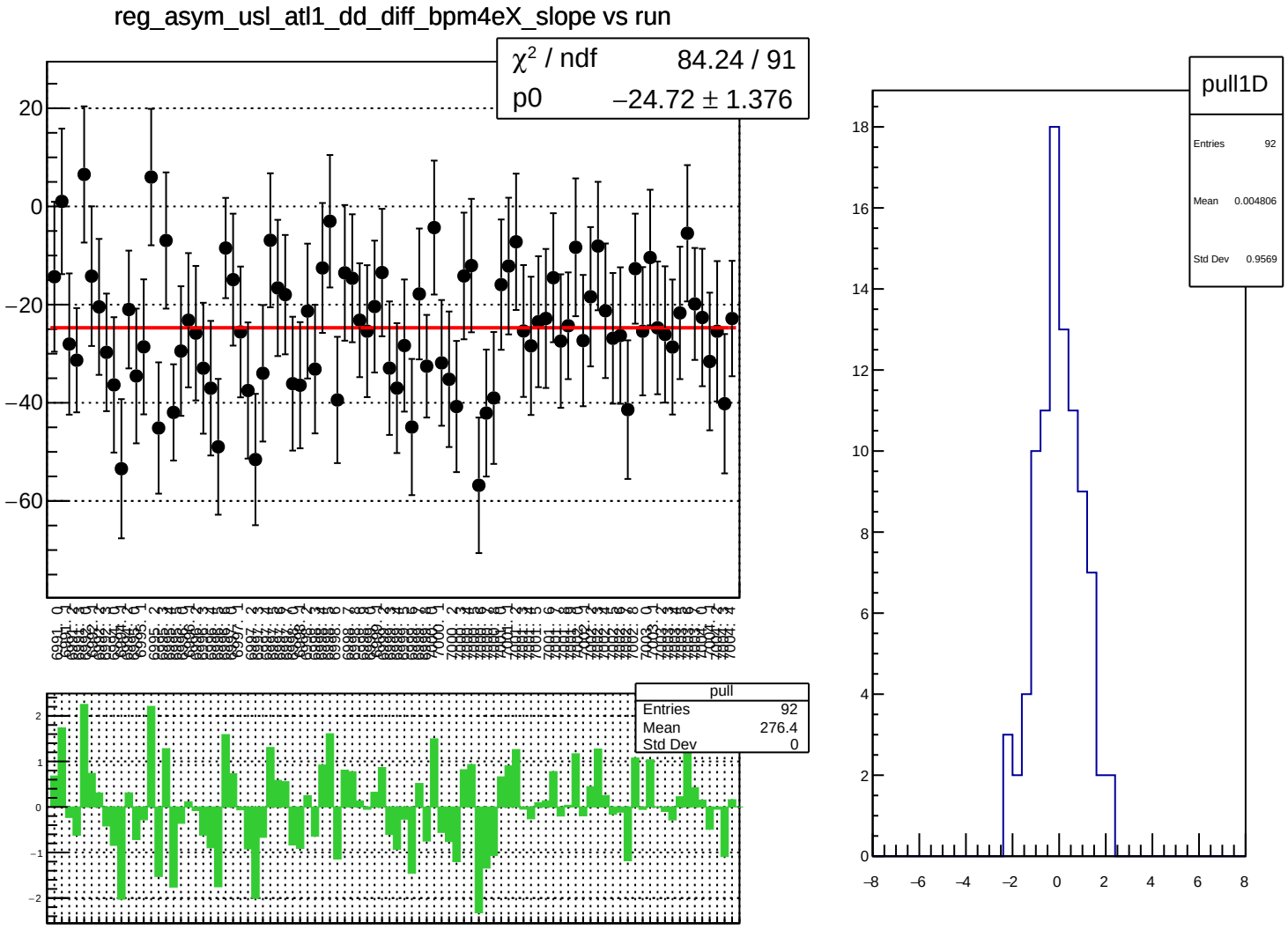

pull1D
Entries 92
Mean −0.03229
Std Dev 0.9619

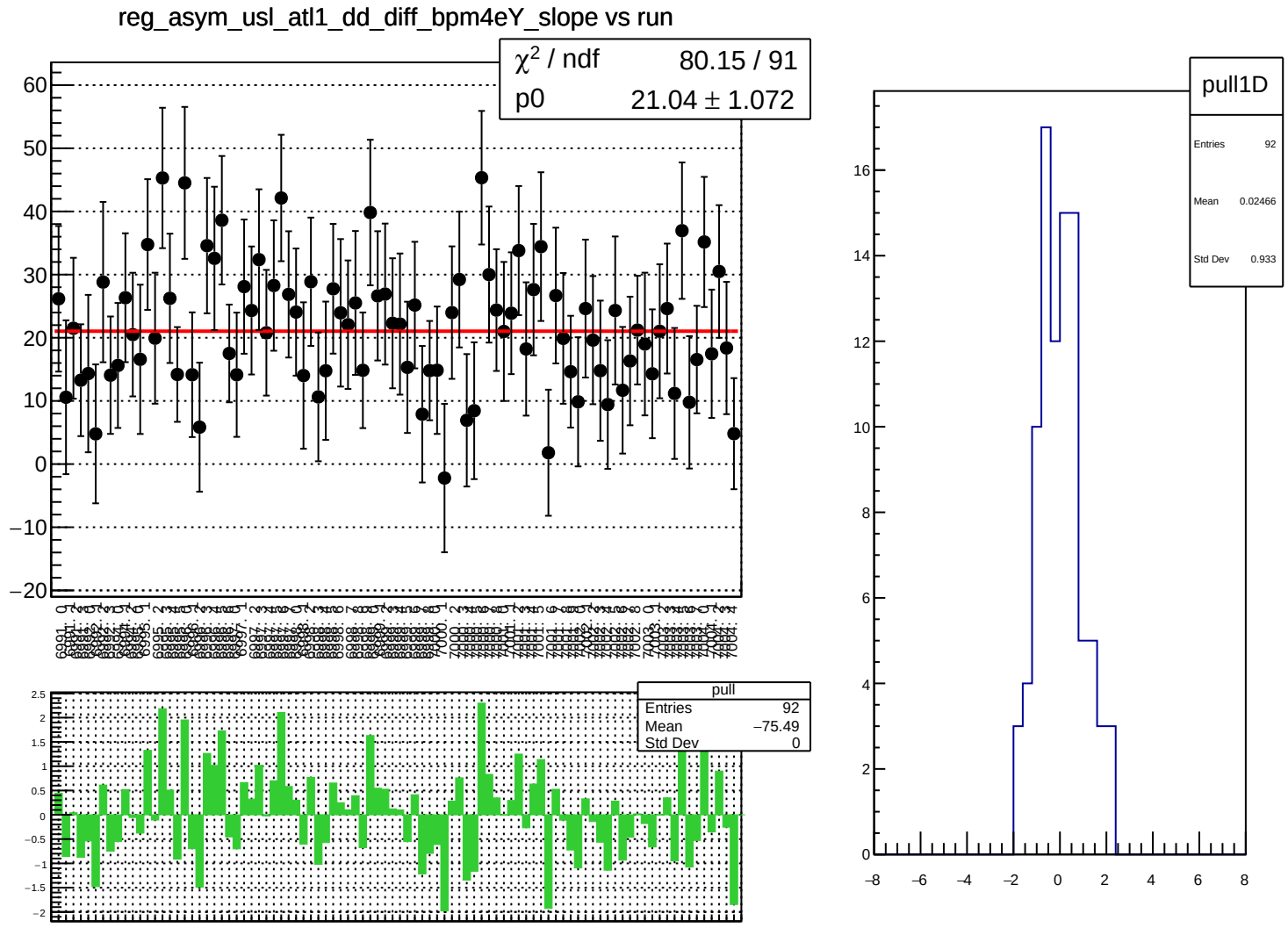

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 328.7 / 91
p0 −31.08 ± 0.06702
pull
Entries 92
Mean 2157
Std Dev 0
pull1D
Entries 92
Mean −0.009951
Std Dev 1.89

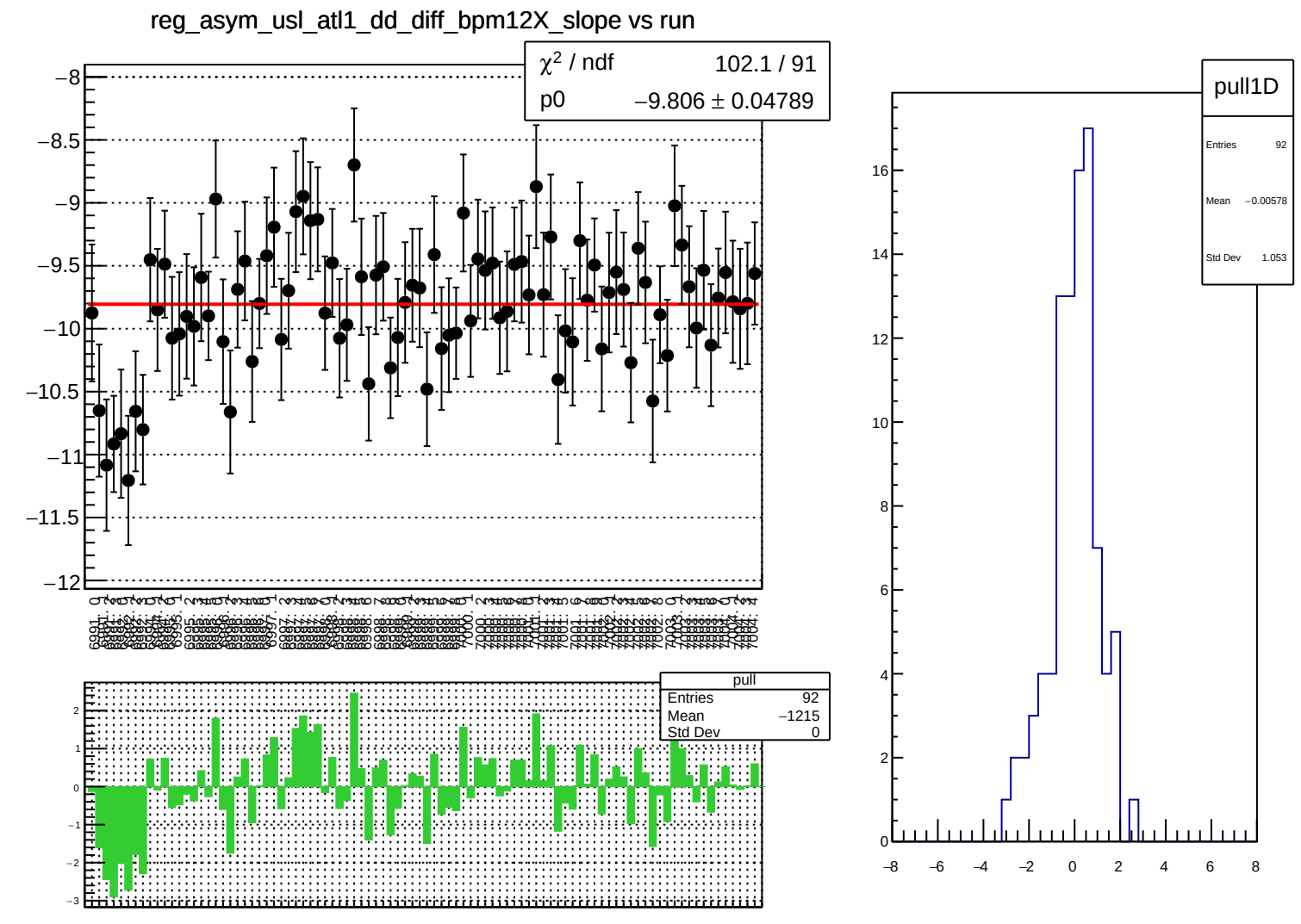

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 82.68 / 91
p0 −26.97 ± 1.492
pull
Entries 92
Mean 285.8
Std Dev 0
pull1D
Entries 92
Mean −0.005375
Std Dev 0.948

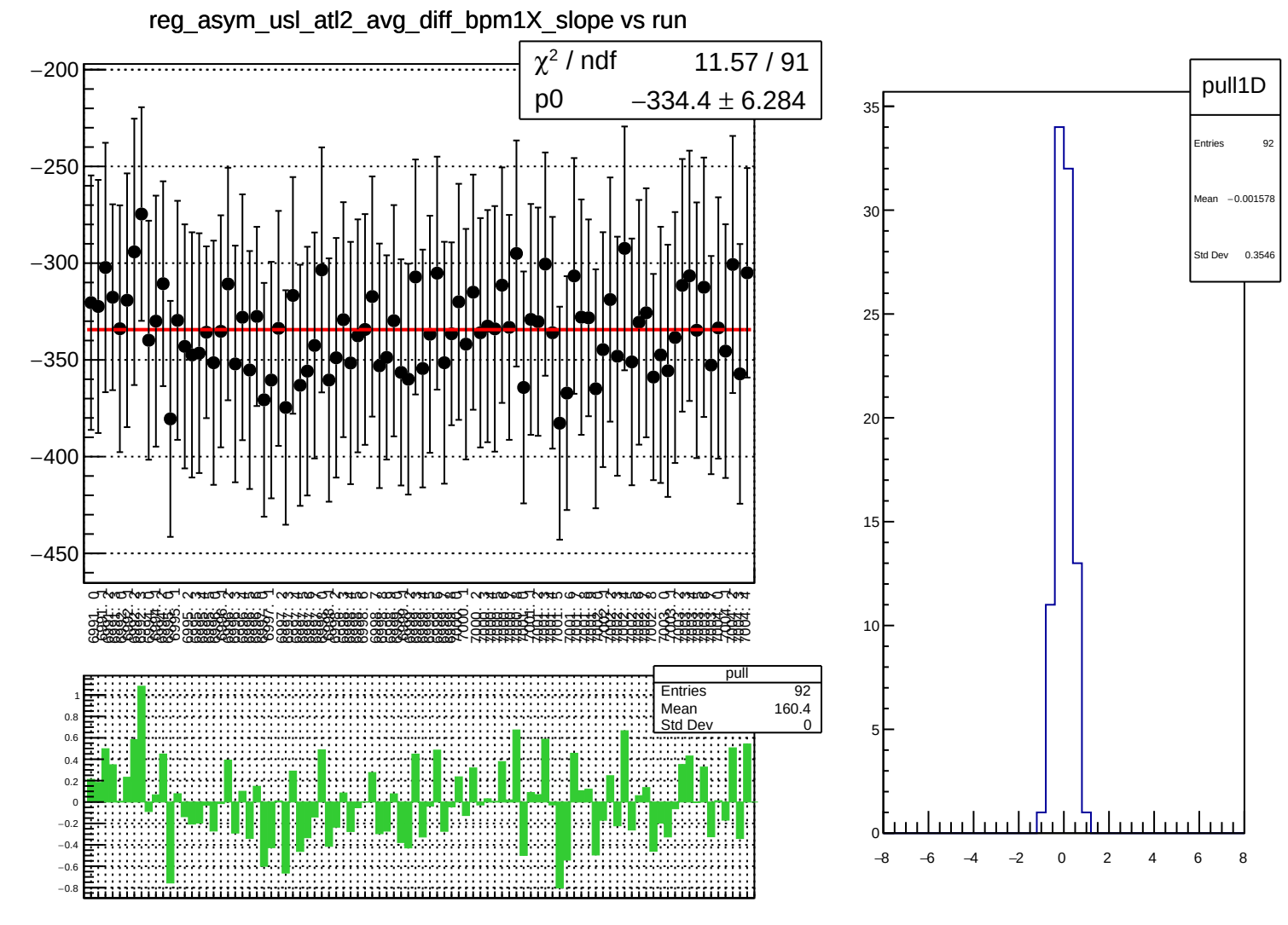

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.66 / 91
p0 −5.99 ± 1.02
pull
Entries 92
Mean −31.92
Std Dev 0

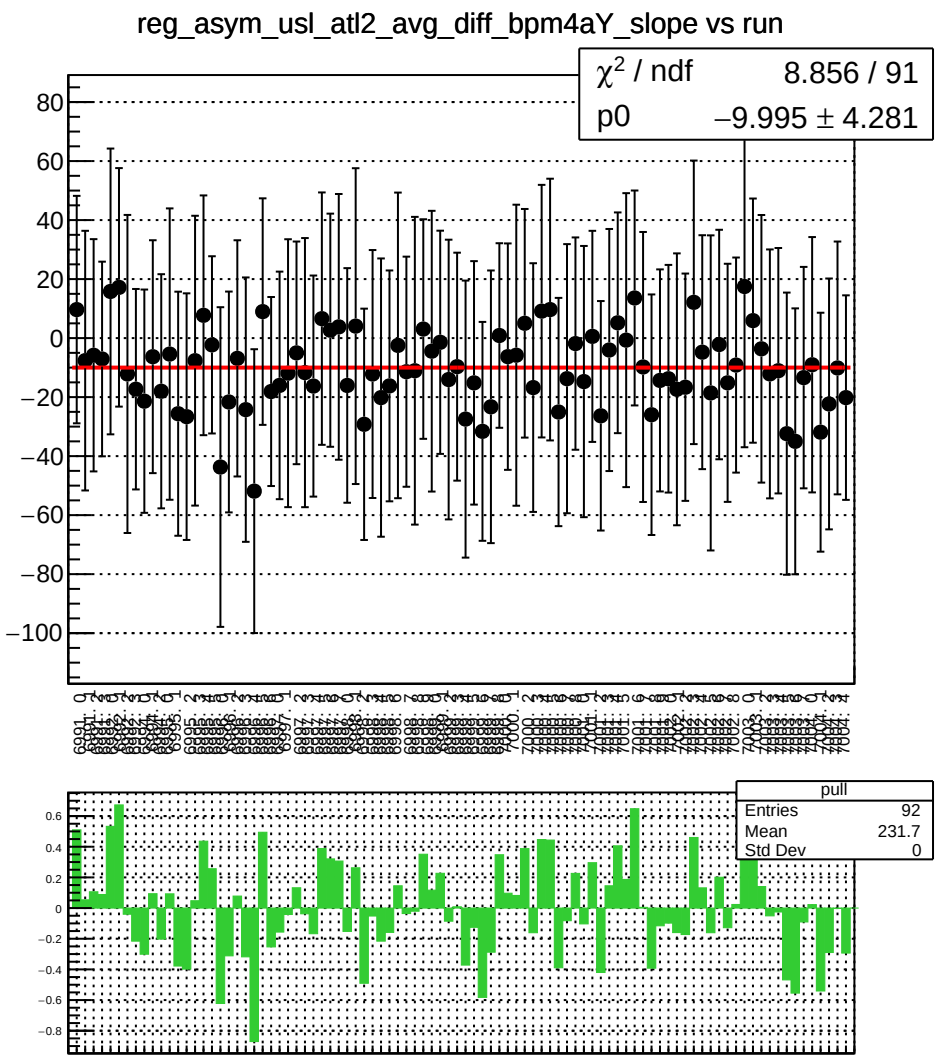

pull1D
Entries 92
Mean −0.0286
Std Dev 0.9242

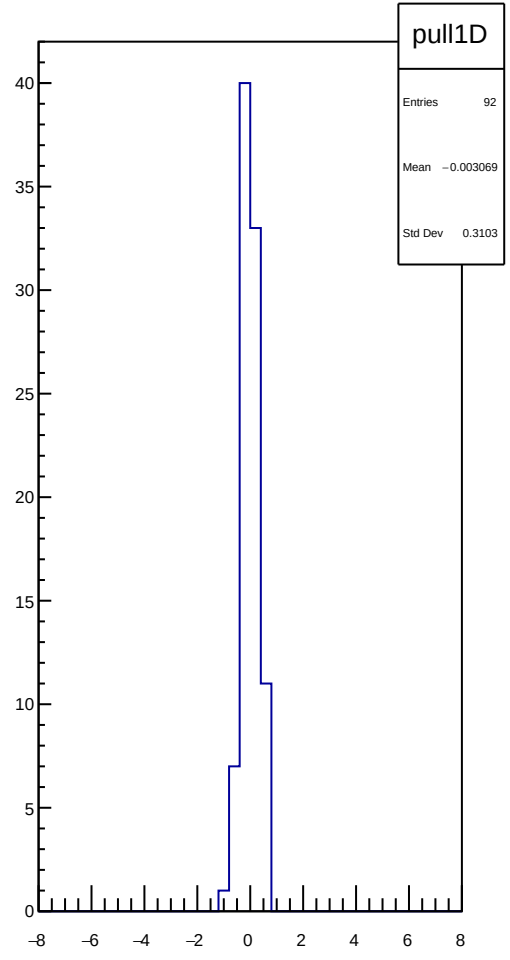

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.24 / 91
p0 −24.72 ± 1.376
pull
Entries 92
Mean 276.4
Std Dev 0
pull1D
Entries 92
Mean 0.004806
Std Dev 0.9569

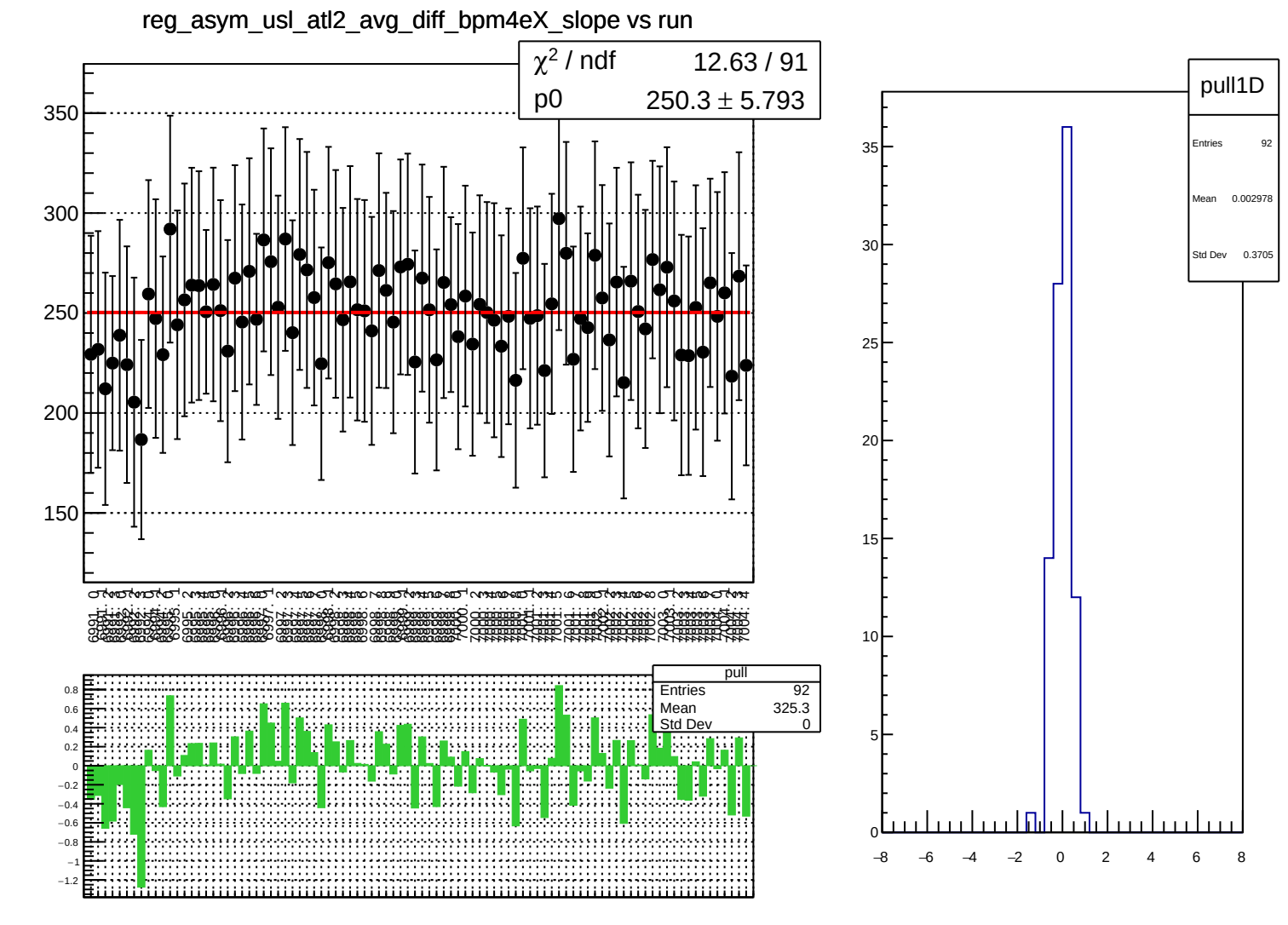

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.15 / 91
p0 21.04 ± 1.072
pull
Entries 92
Mean −75.49
Std Dev 0
pull1D
Entries 92
Mean 0.02466
Std Dev 0.933

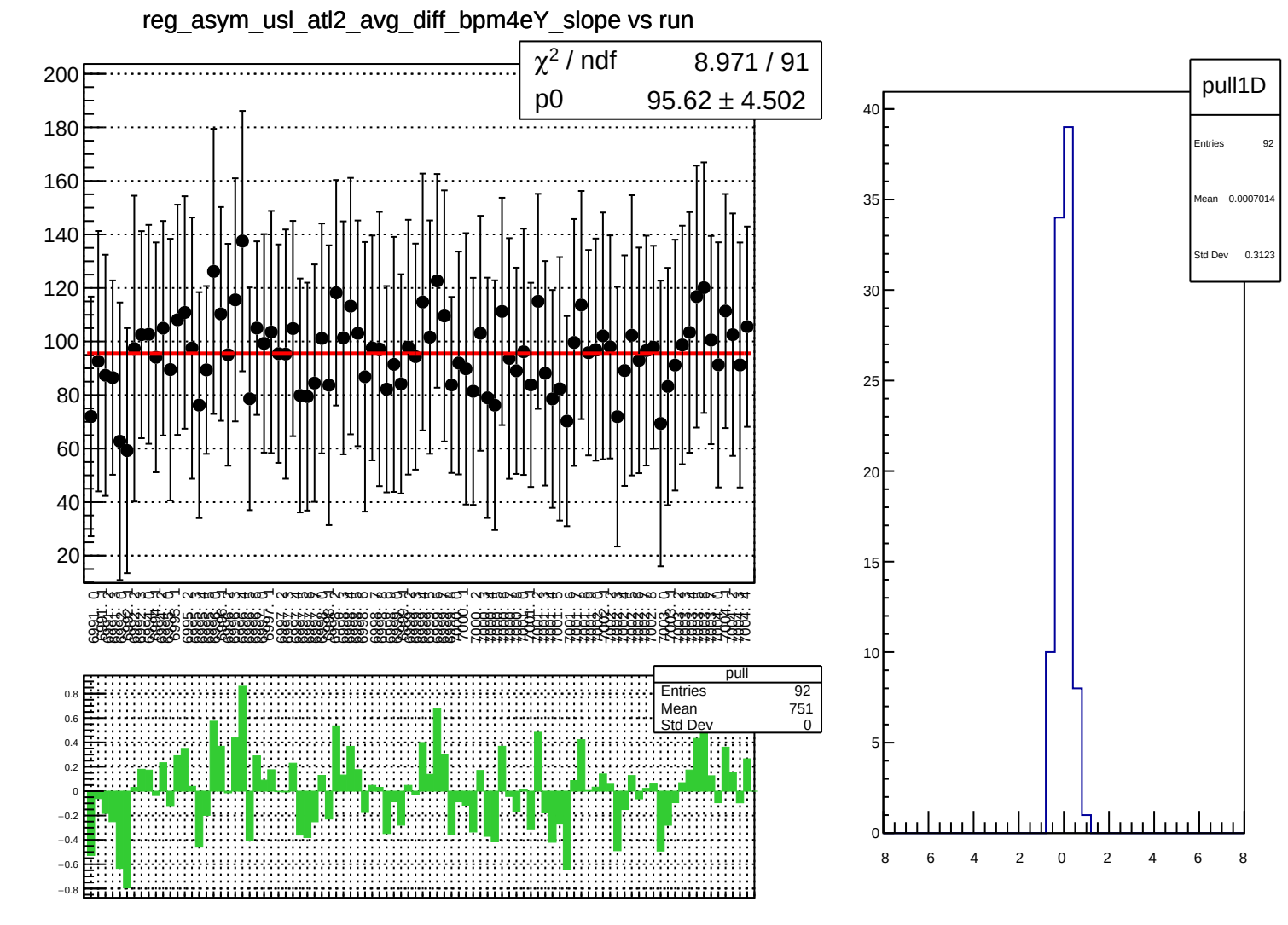

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 102.1 / 91
p0 −9.806 ± 0.04789
pull
Entries 92
Mean −1215
Std Dev 0
pull1D
Entries 92
Mean −0.00578
Std Dev 1.053

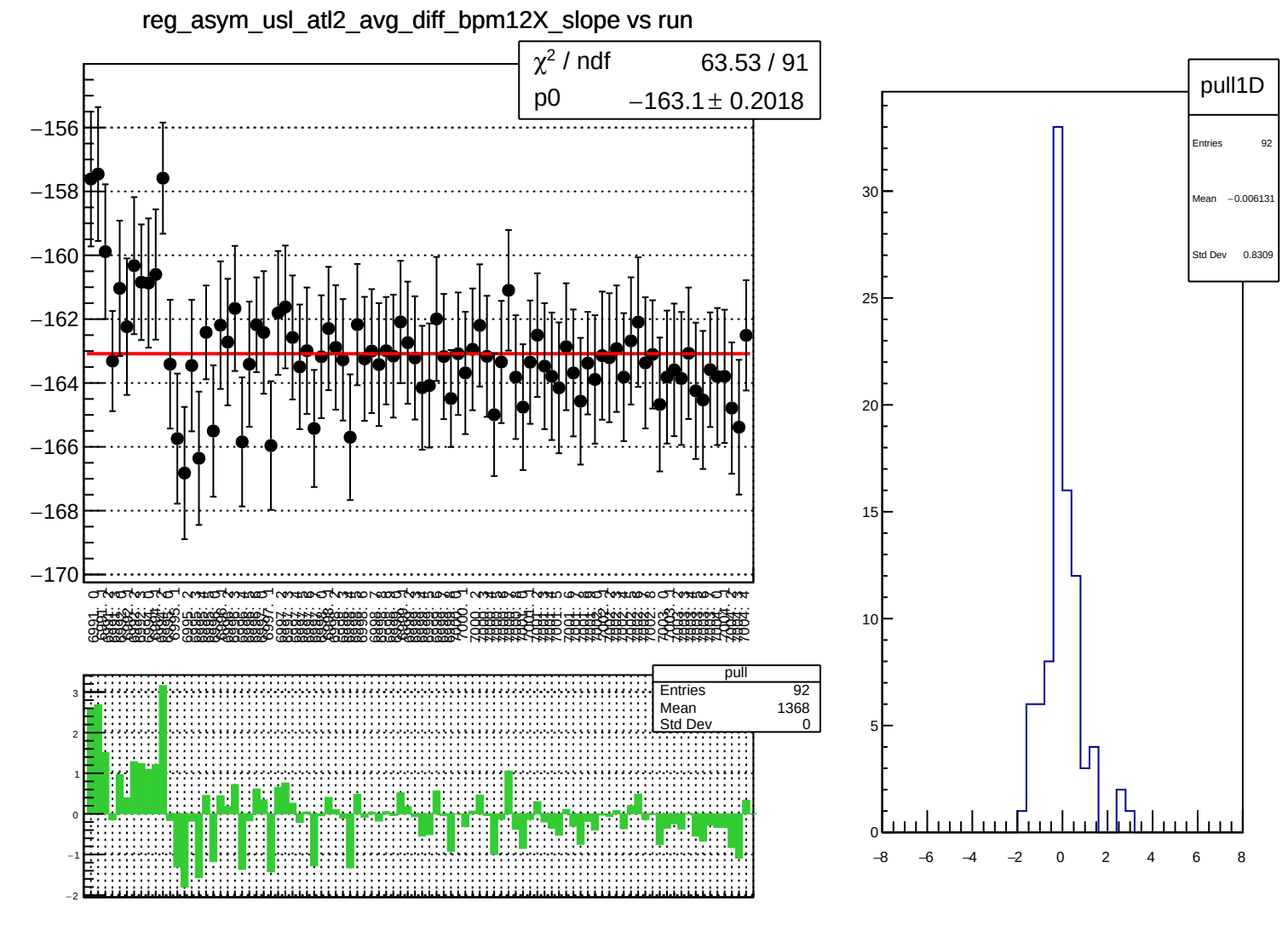

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.57 / 91
p0 −334.4 ± 6.284
−200
−250
−300
−350
−400
−450
pull
Entries 92
Mean 160.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.001578
Std Dev 0.3546
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

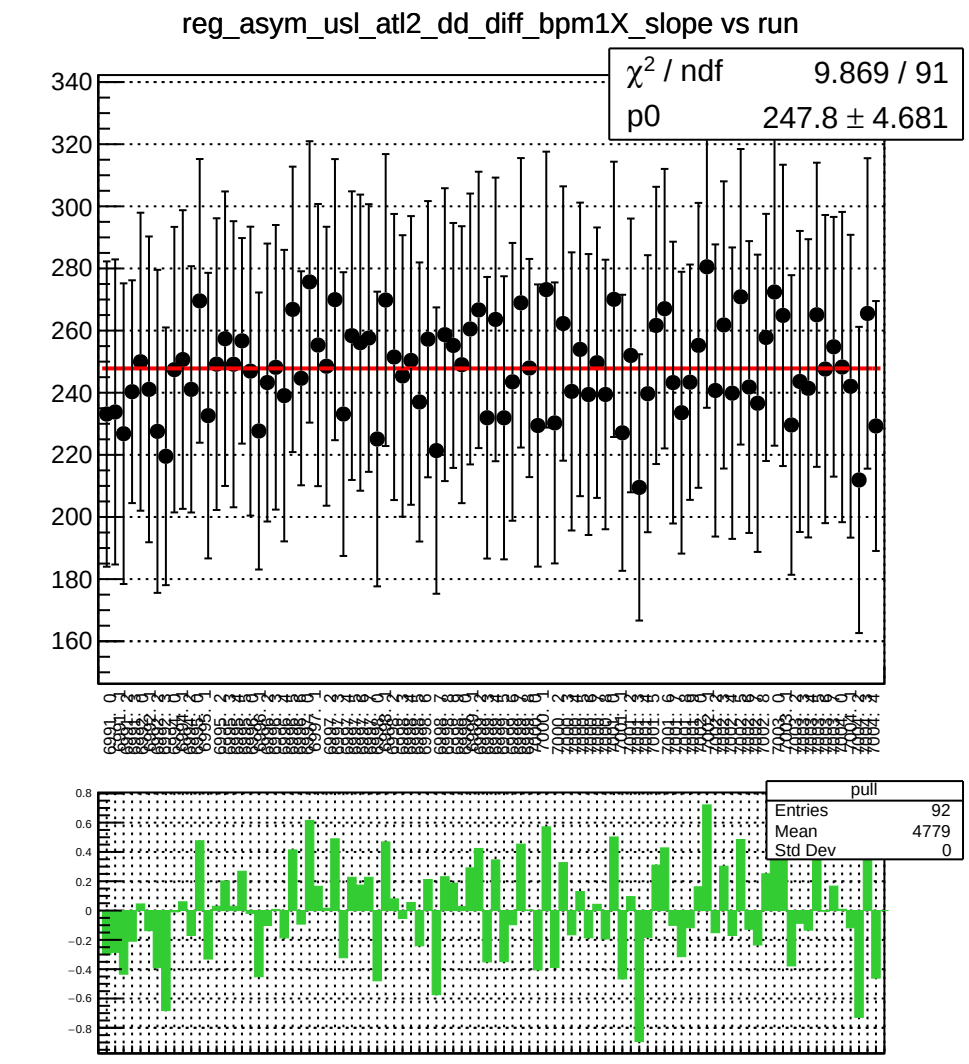

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.856 / 91
p0 −9.995 ± 4.281
pull
Entries 92
Mean 231.7
Std Dev 0

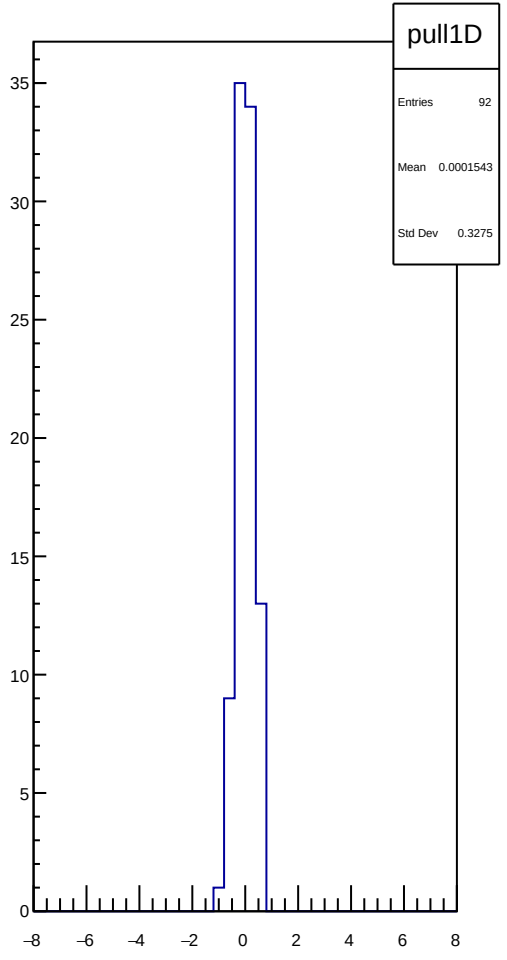

pull1D
Entries 92
Mean −0.003069
Std Dev 0.3103

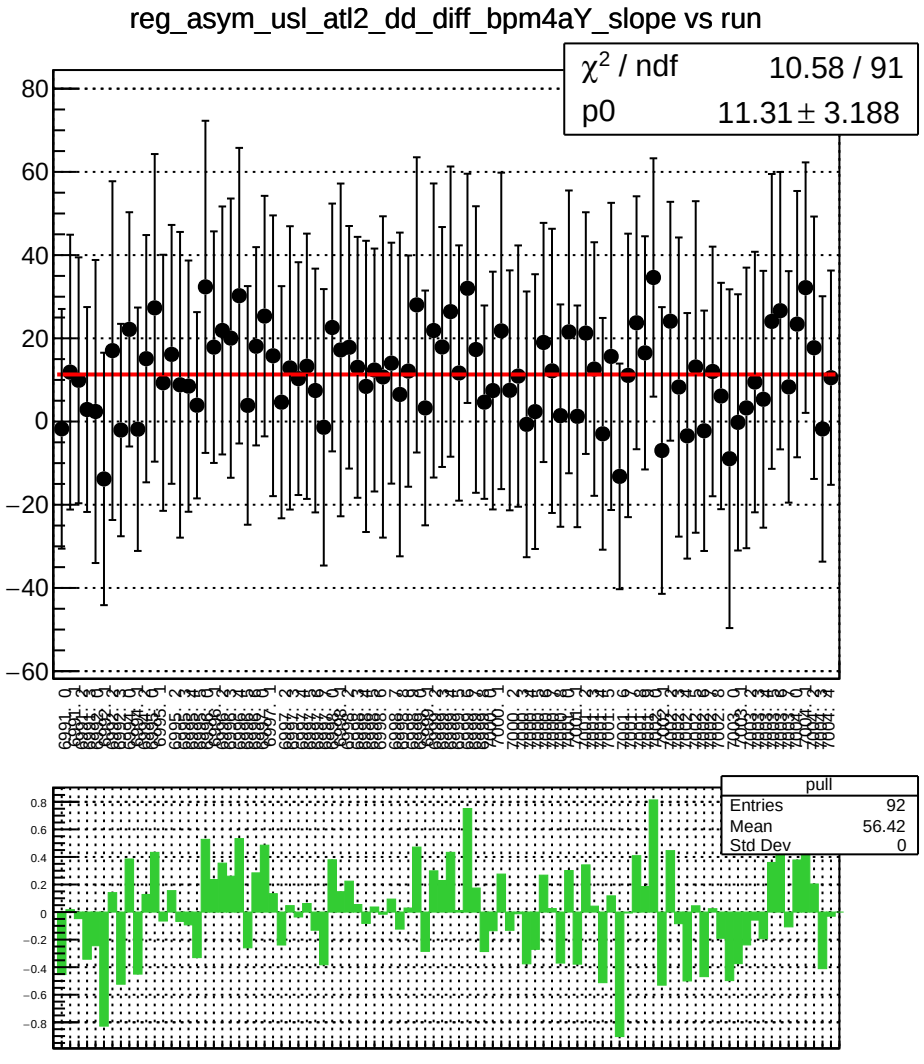

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.63 / 91
p0 250.3 ± 5.793
pull
Entries 92
Mean 325.3
Std Dev 0
pull1D
Entries 92
Mean 0.002978
Std Dev 0.3705

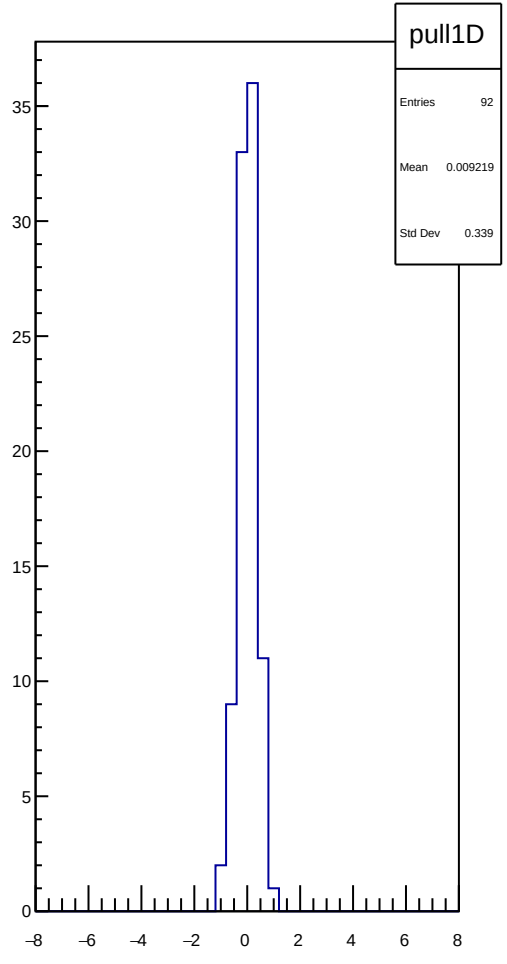

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.971 / 91
p0 95.62 ± 4.502
pull
Entries 92
Mean 751
Std Dev 0
pull1D
Entries 92
Mean 0.0007014
Std Dev 0.3123

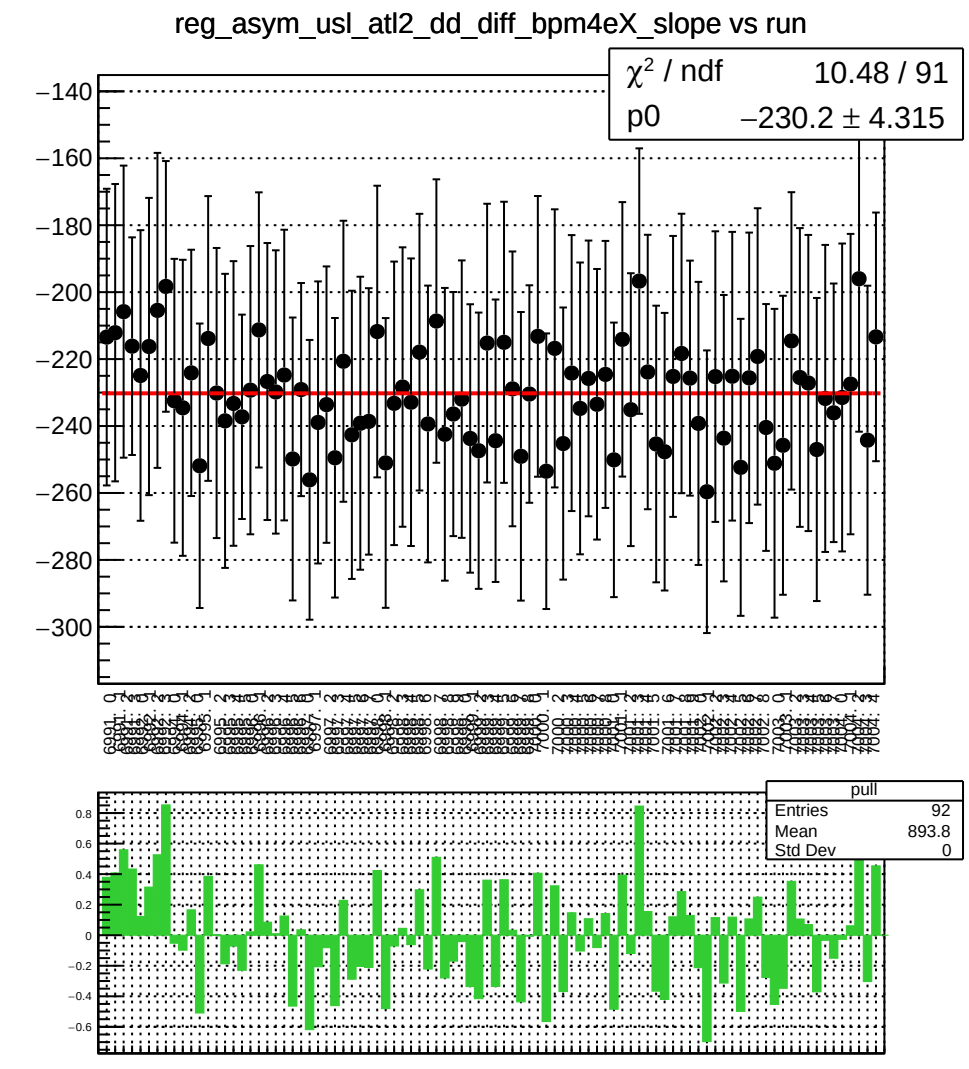

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 63.53 / 91
p0 −163.1 ± 0.2018
pull
Entries 92
Mean 1368
Std Dev 0
pull1D
Entries 92
Mean −0.006131
Std Dev 0.8309

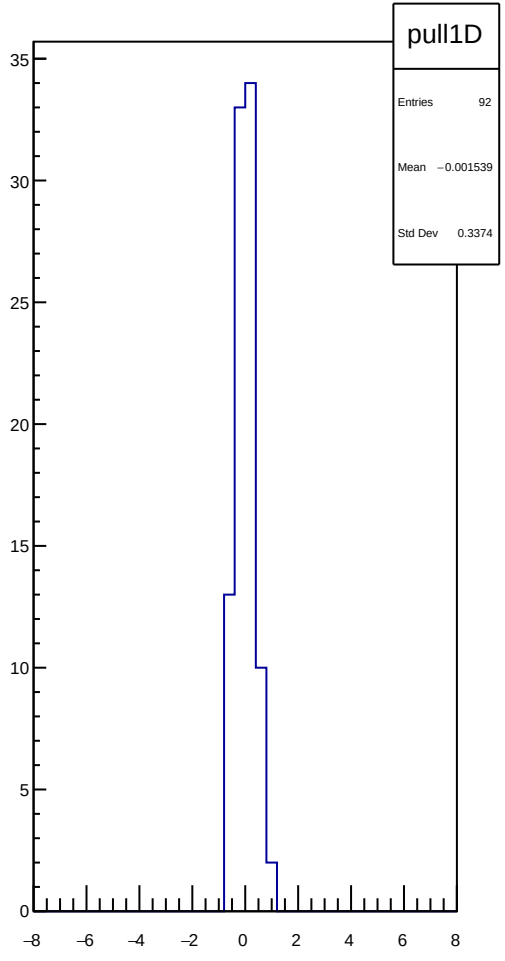

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.869 / 91
p0 247.8 ± 4.681
pull
Entries 92
Mean 4779
Std Dev 0

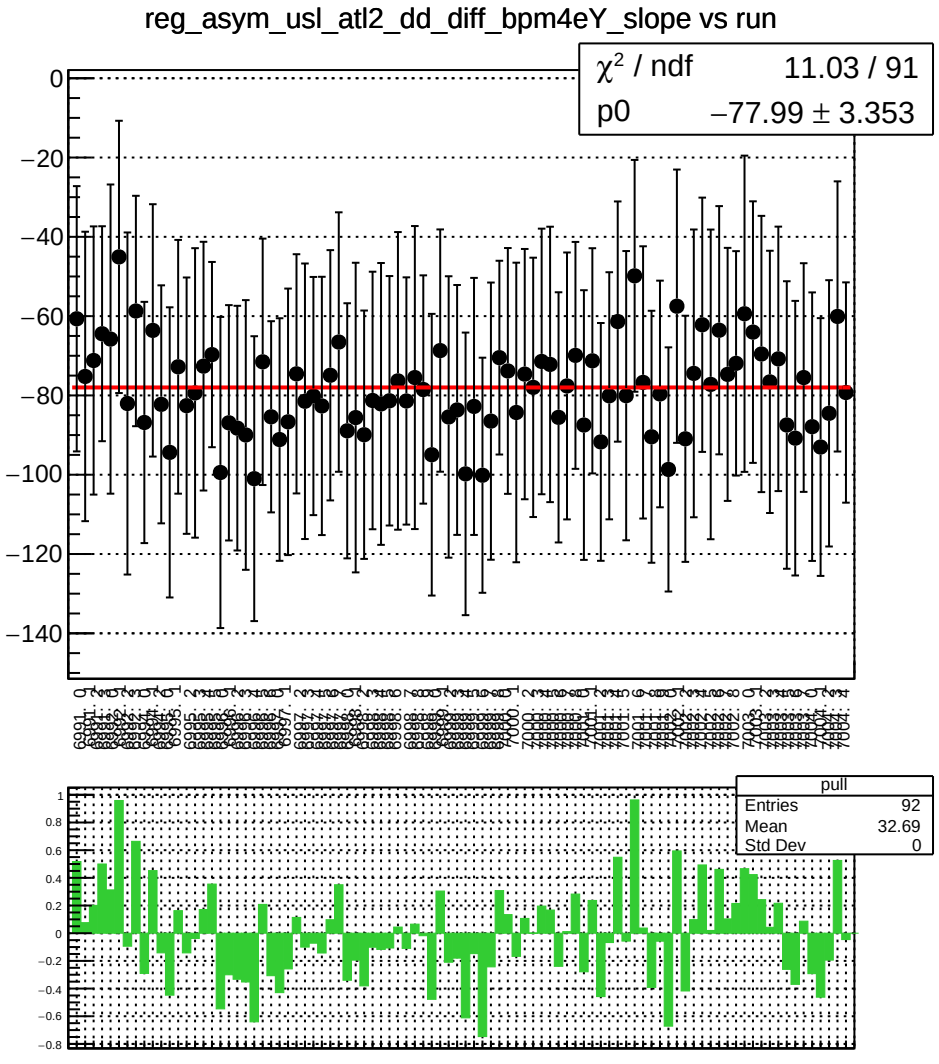

pull1D
Entries 92
Mean 0.0001543
Std Dev 0.3275

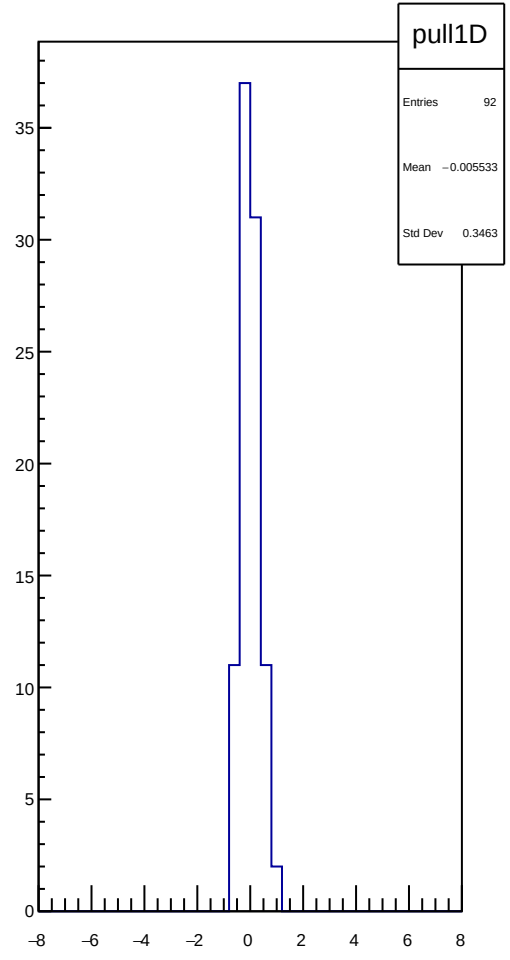

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.58 / 91
p0 11.31 ± 3.188
pull
Entries 92
Mean 56.42
Std Dev 0

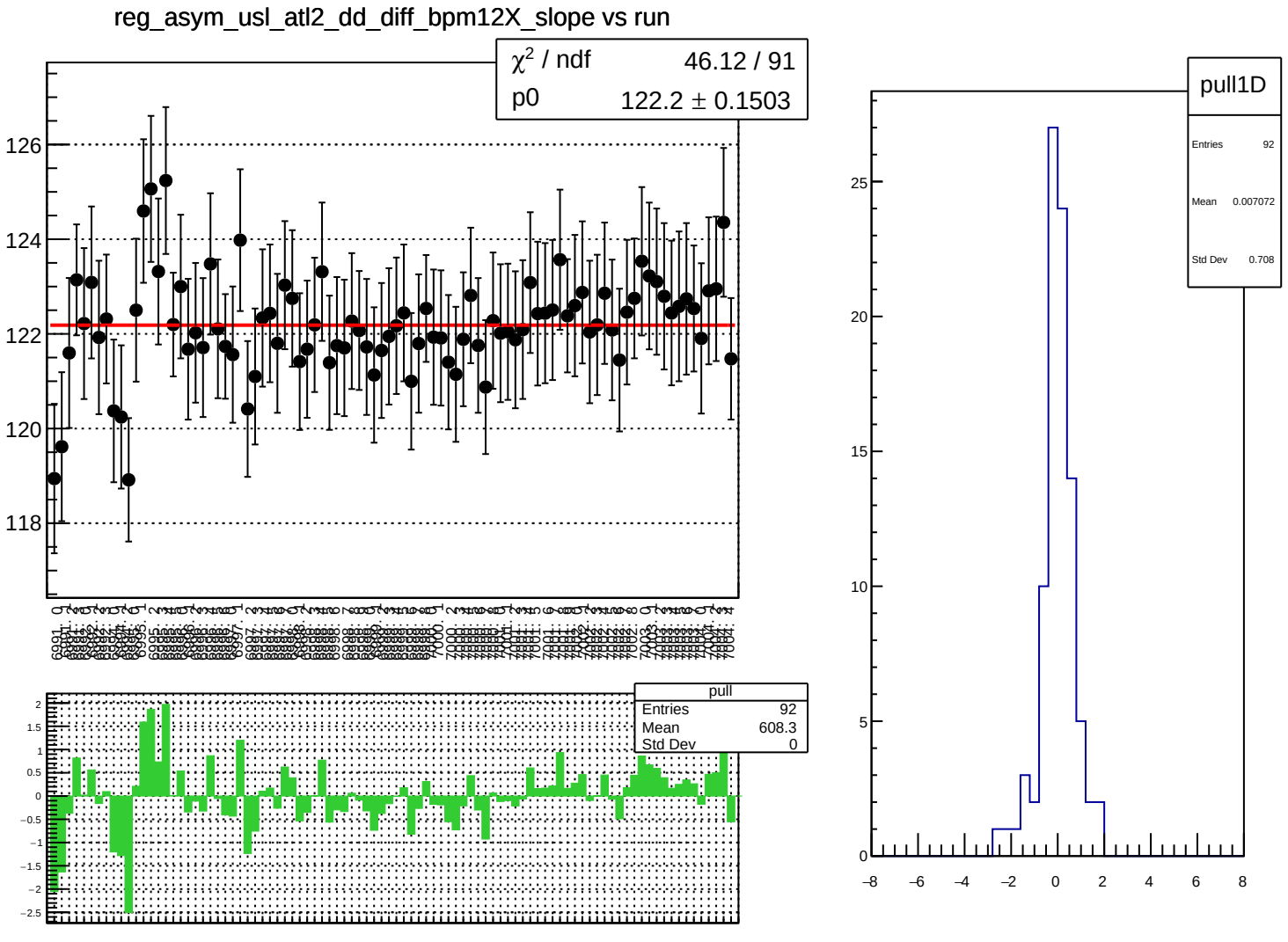

pull1D
Entries 92
Mean 0.009219
Std Dev 0.339

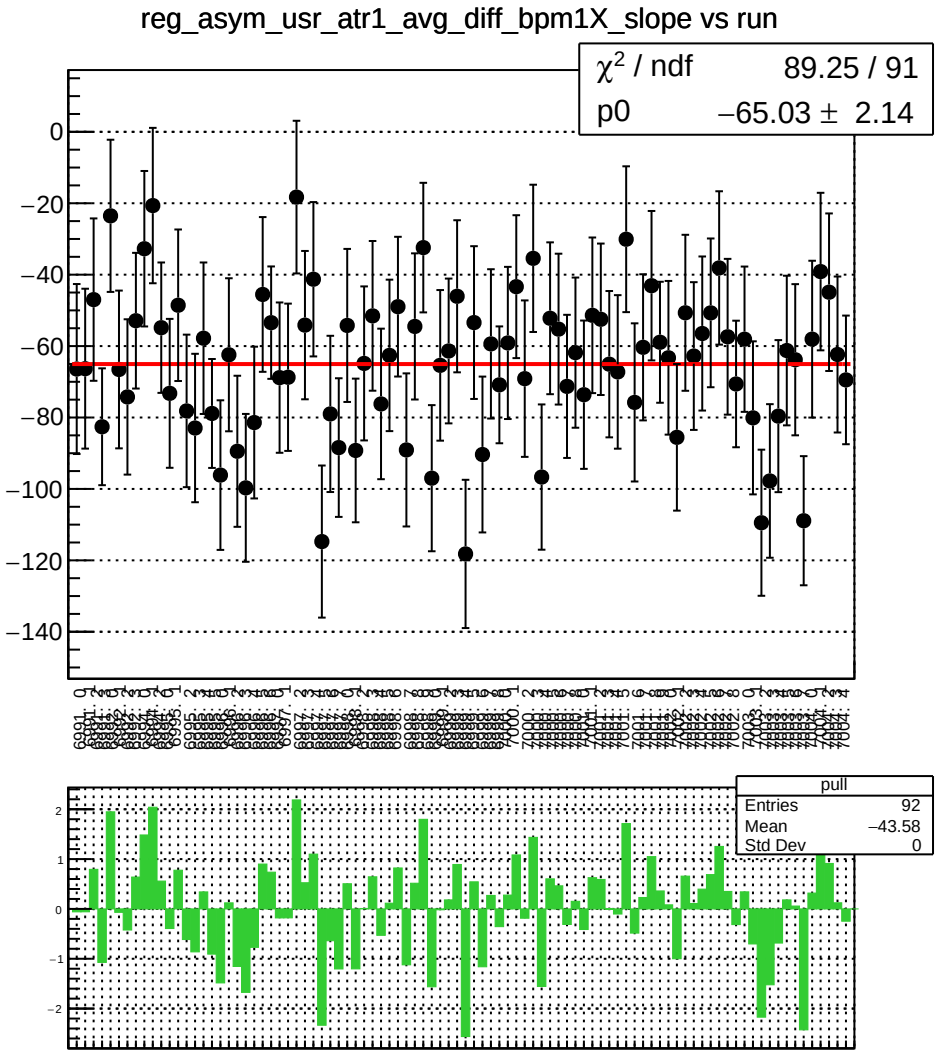

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.48 / 91
p0 −230.2 ± 4.315
pull
Entries 92
Mean 893.8
Std Dev 0

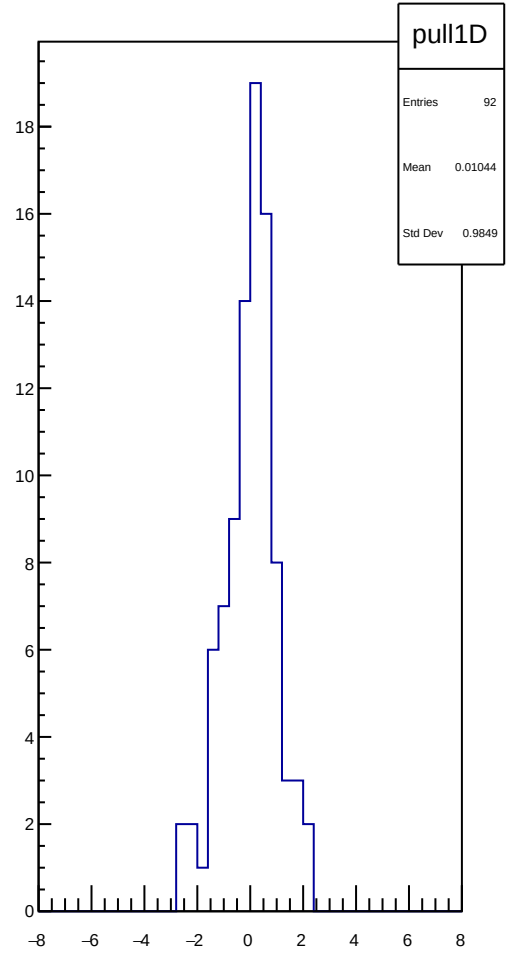

pull1D
Entries 92
Mean −0.001539
Std Dev 0.3374

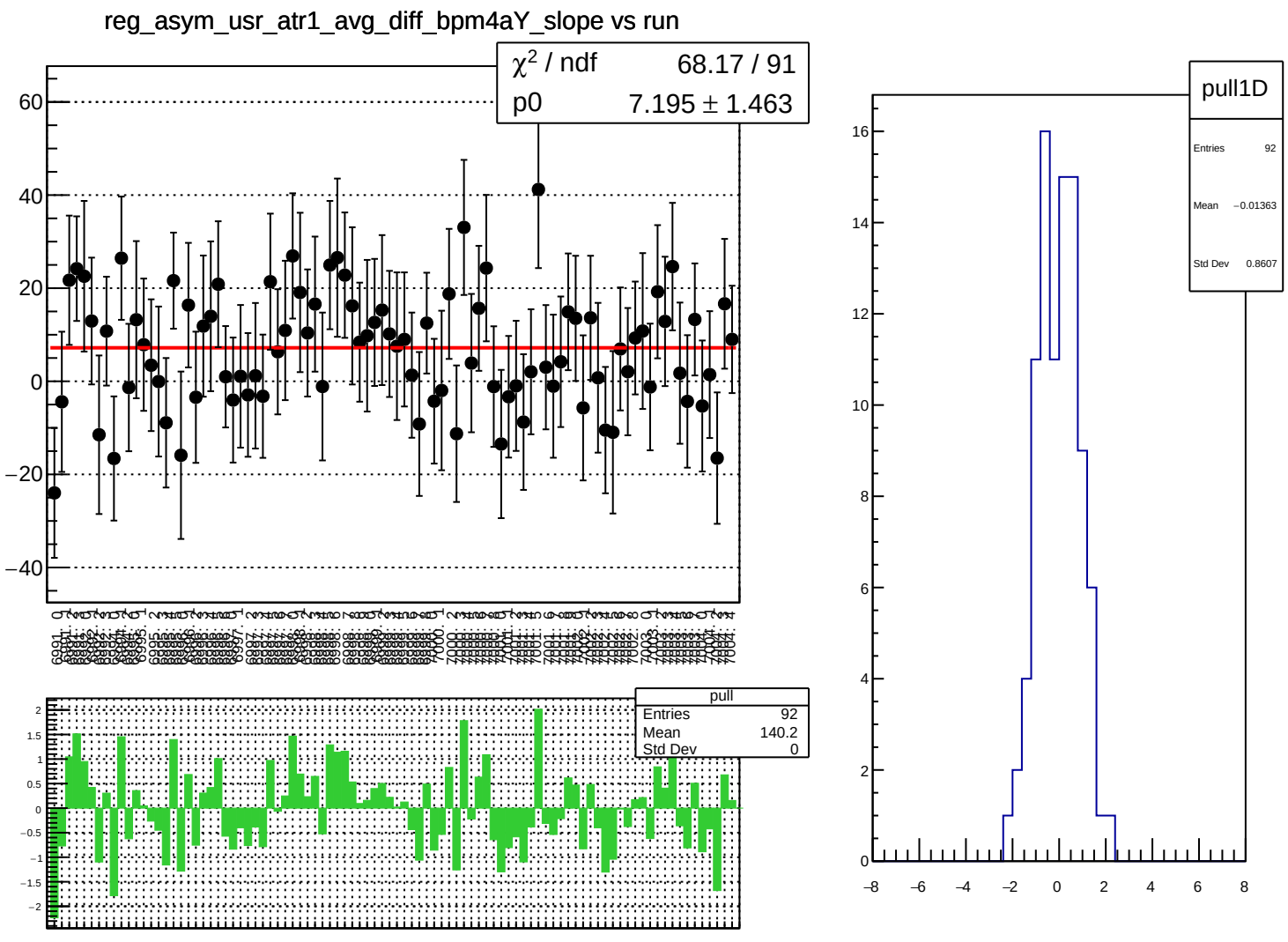

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.03 / 91
p0 −77.99 ± 3.353
pull
Entries 92
Mean 32.69
Std Dev 0

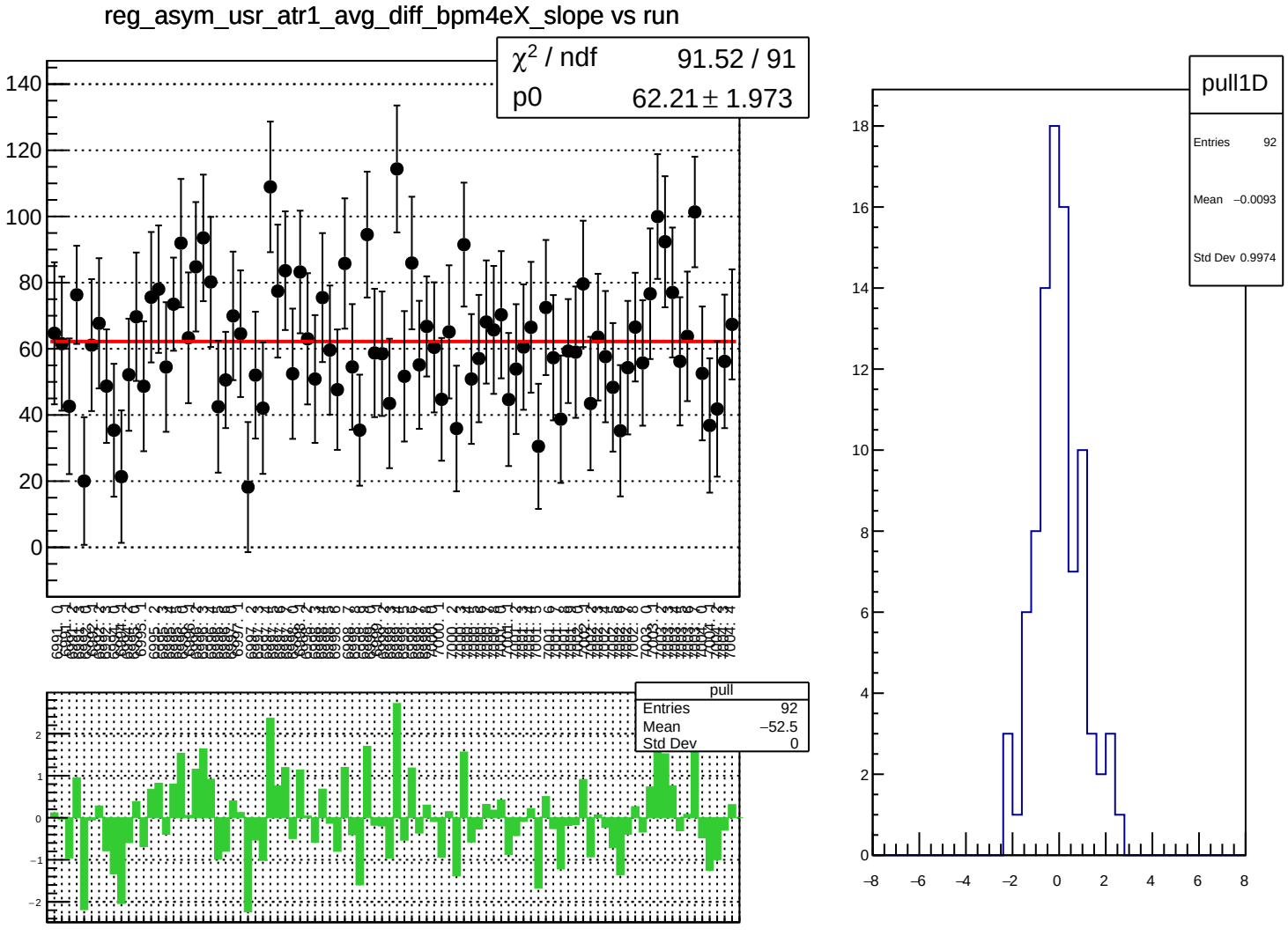

pull1D
Entries 92
Mean −0.005533
Std Dev 0.3463

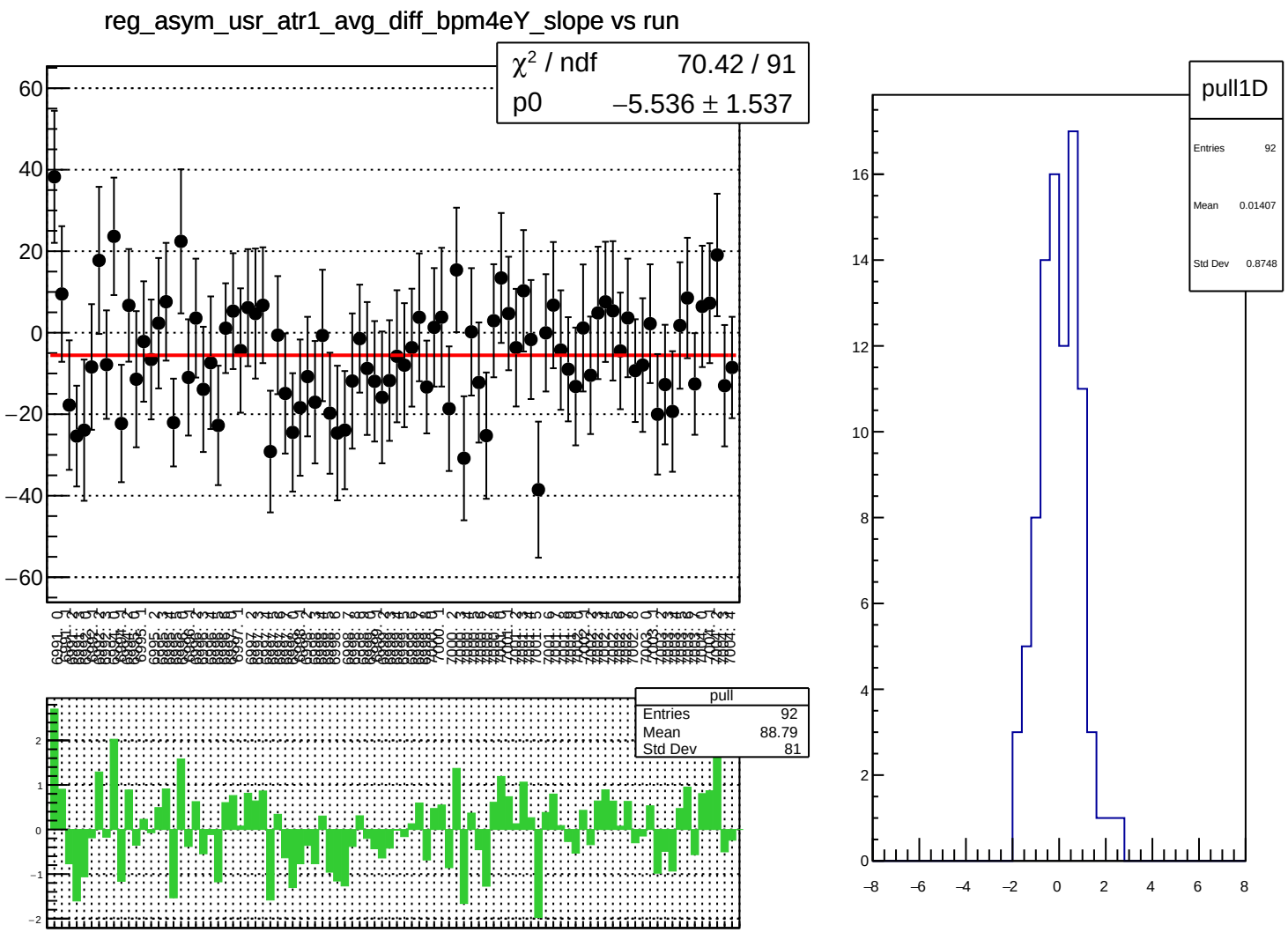

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 46.12 / 91
p0 122.2 ± 0.1503
126
124
122
120
118
pull
Entries 92
Mean 608.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean 0.007072
Std Dev 0.708
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

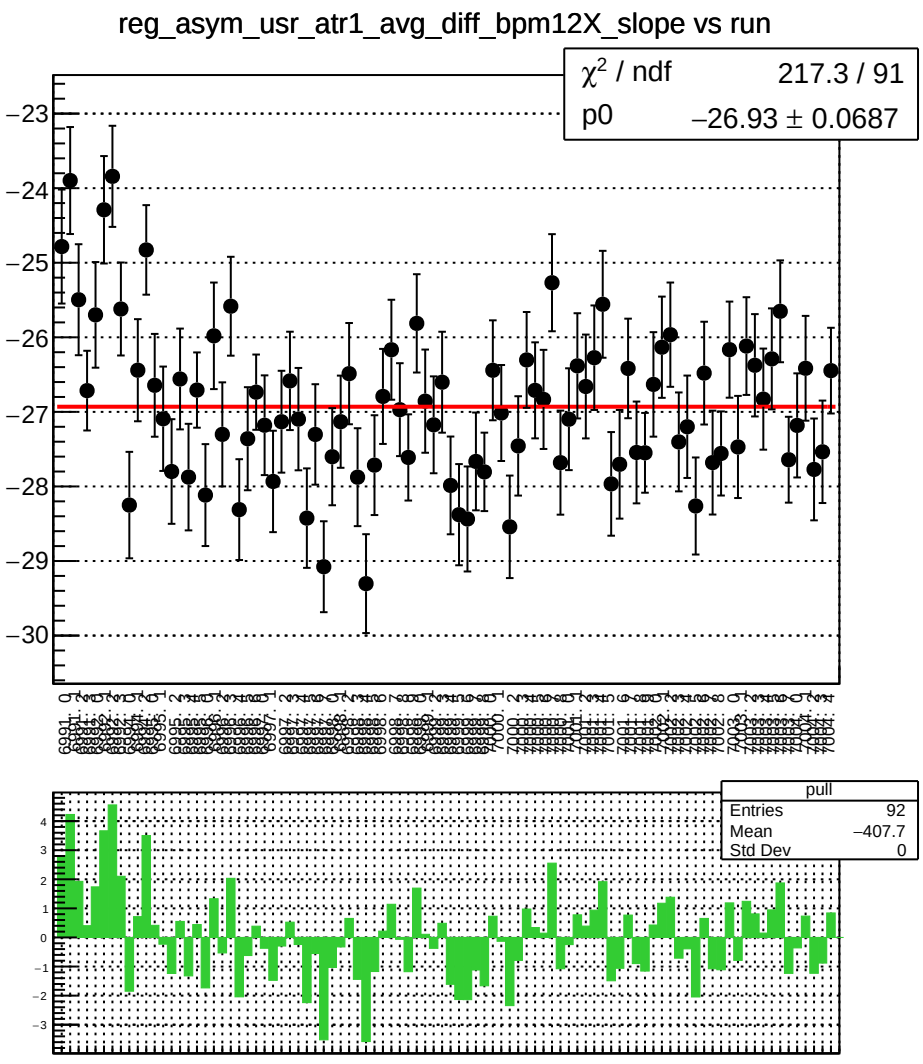

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 89.25 / 91
p0 −65.03 ± 2.14
pull
Entries 92
Mean −43.58
Std Dev 0

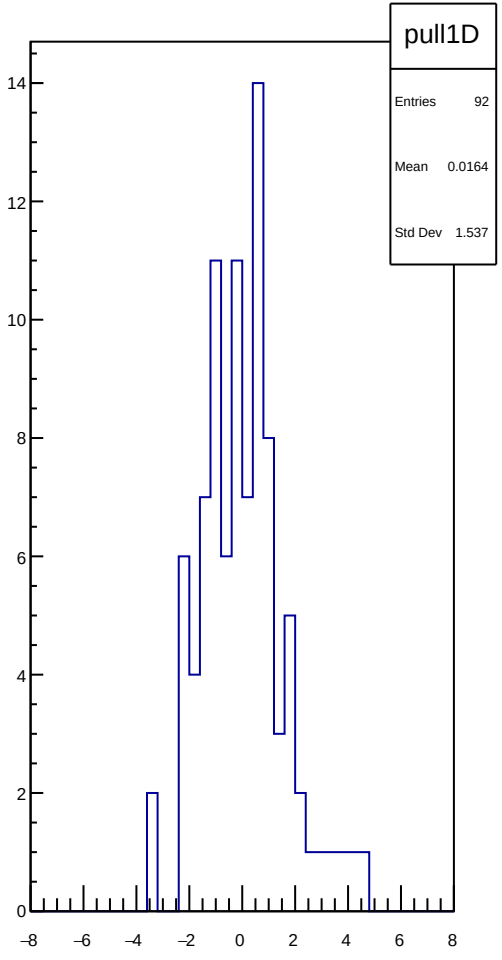

pull1D
Entries 92
Mean 0.01044
Std Dev 0.9849

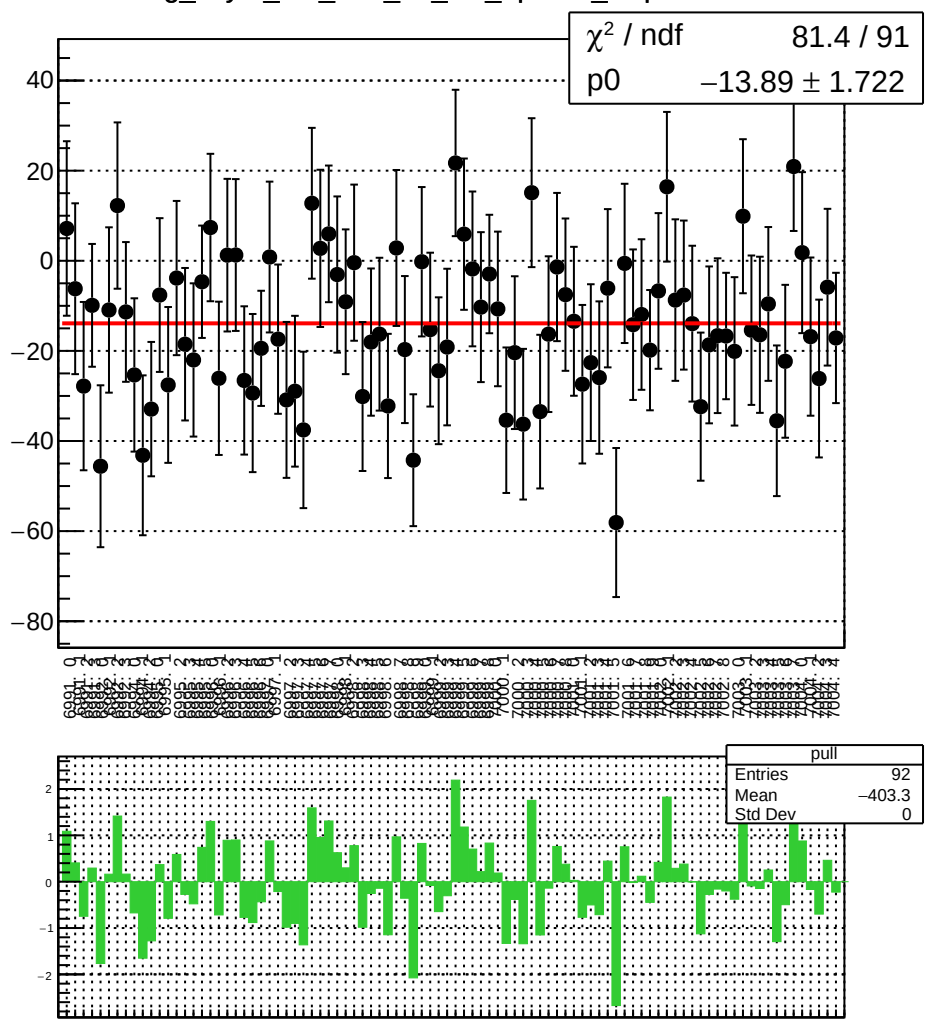

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.17 / 91
p0 7.195 ± 1.463
pull
Entries 92
Mean 140.2
Std Dev 0
pull1D
Entries 92
Mean −0.01363
Std Dev 0.8607

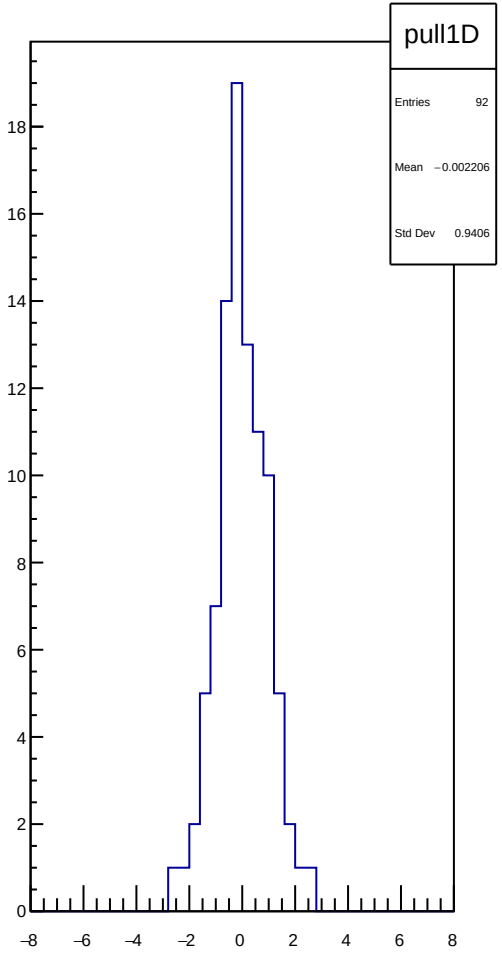

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.52 / 91
p0 62.21 ± 1.973
pull
Entries 92
Mean −52.5
Std Dev 0
pull1D
Entries 92
Mean −0.0093
Std Dev 0.9974

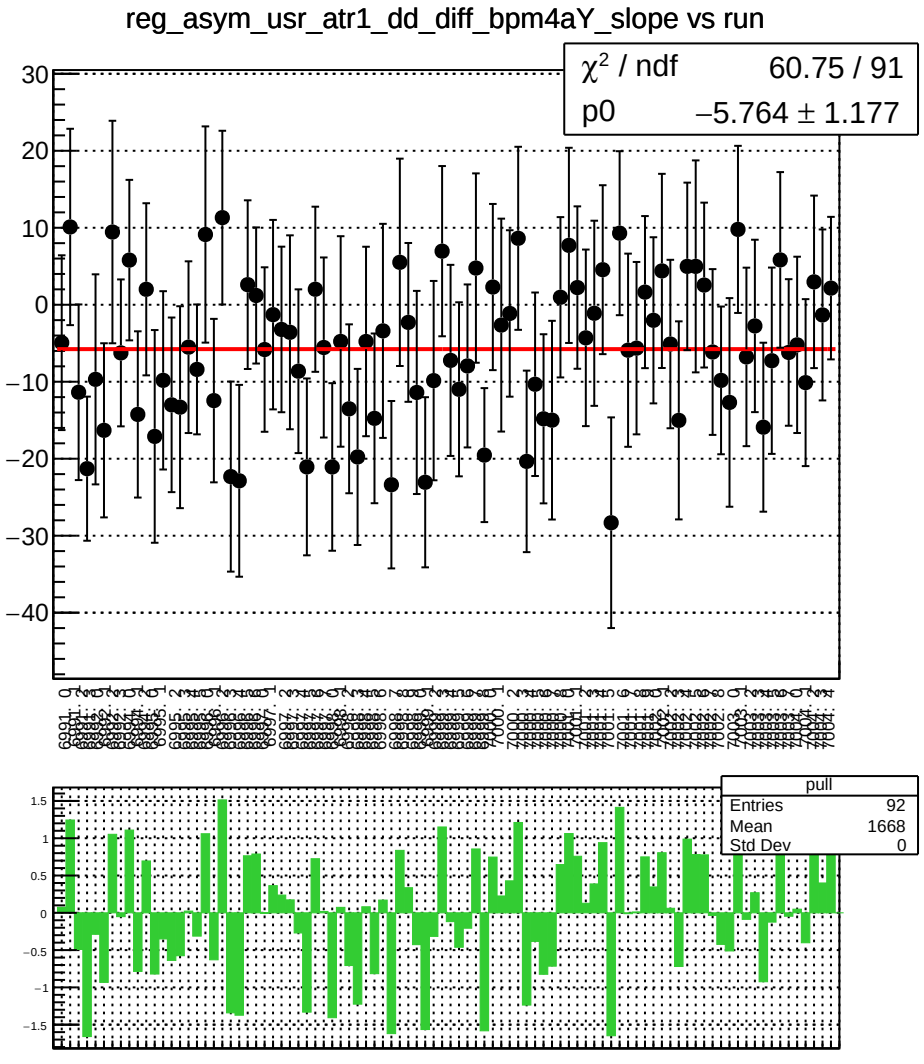

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 70.42 / 91
p0 −5.536 ± 1.537
pull
Entries 92
Mean 88.79
Std Dev 81
pull1D
Entries 92
Mean 0.01407
Std Dev 0.8748

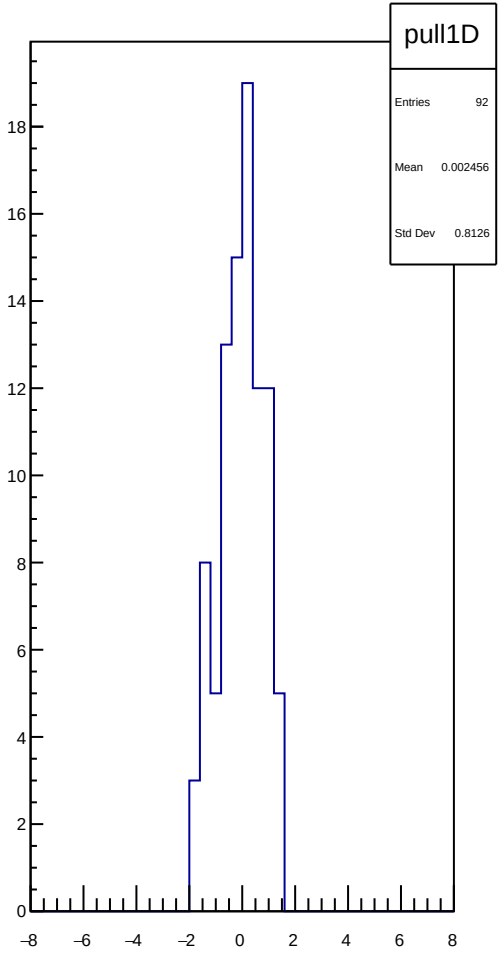

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 217.3 / 91
p0 −26.93 ± 0.0687
pull
Entries 92
Mean −407.7
Std Dev 0

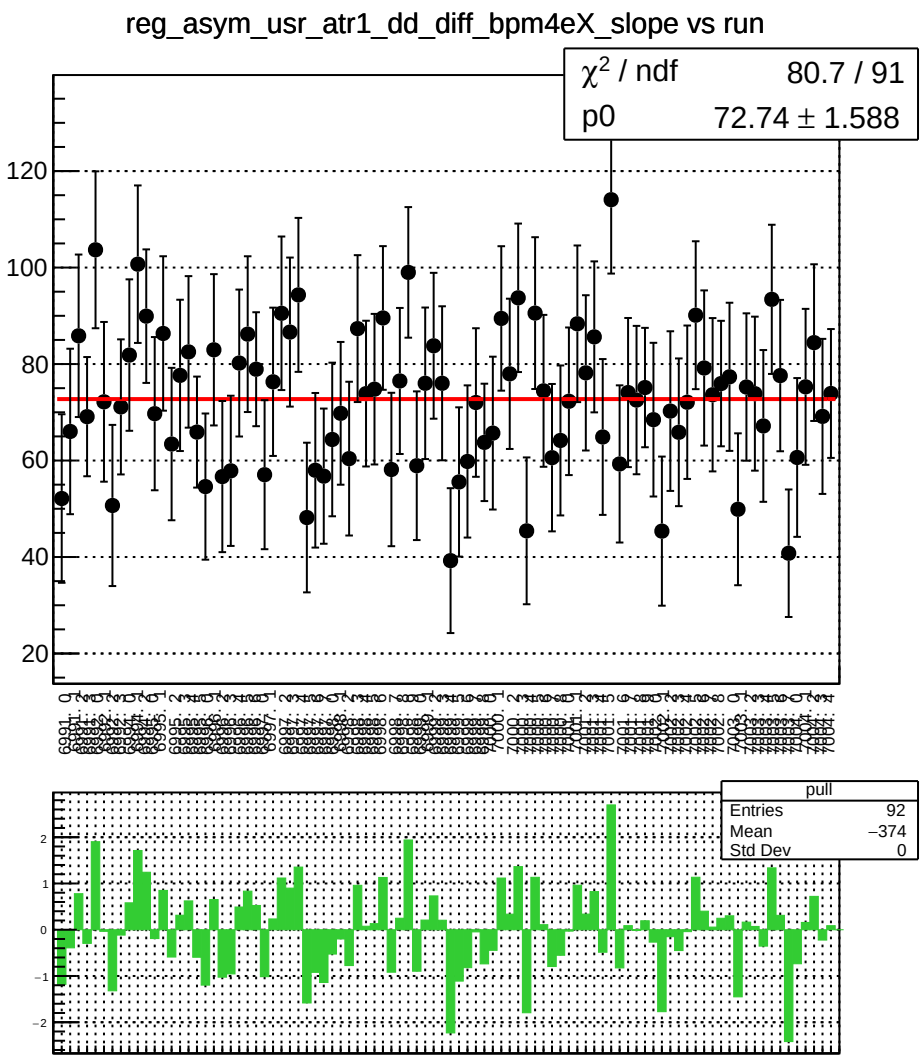

pull1D
Entries 92
Mean 0.0164
Std Dev 1.537

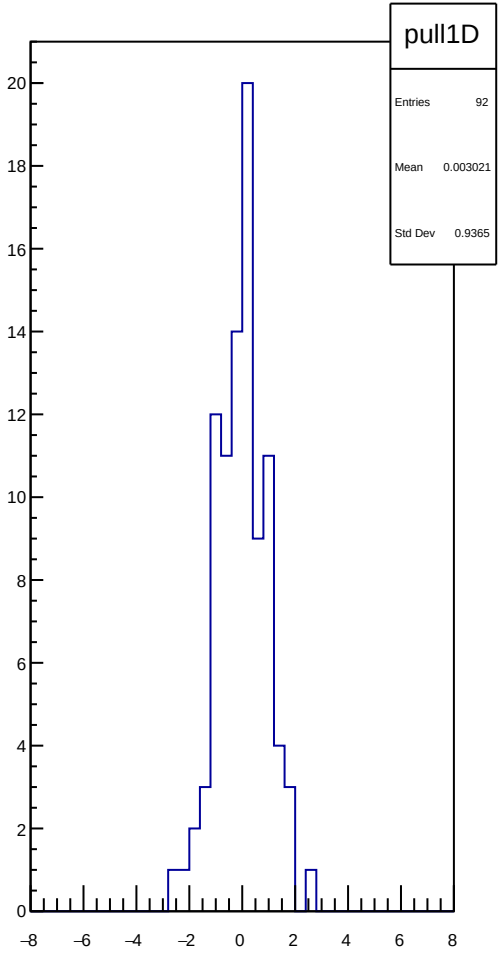

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 81.4 / 91
p0 −13.89 ± 1.722
pull
Entries 92
Mean −403.3
Std Dev 0

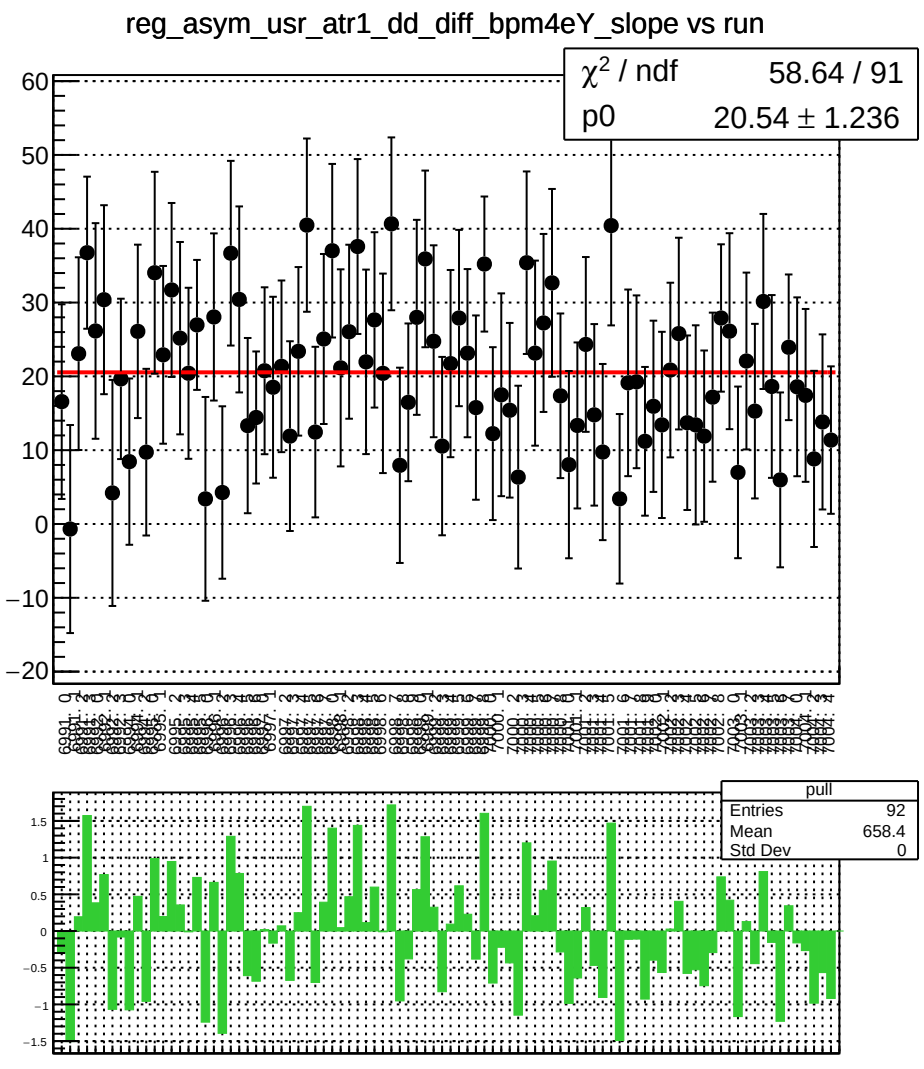

pull1D
Entries 92
Mean −0.002206
Std Dev 0.9406

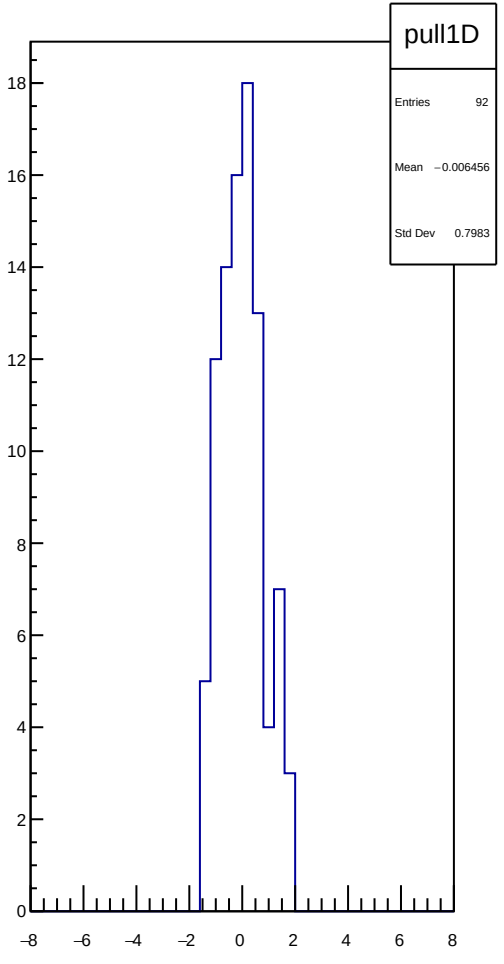

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.75 / 91
p0 −5.764 ± 1.177
pull
Entries 92
Mean 1668
Std Dev 0

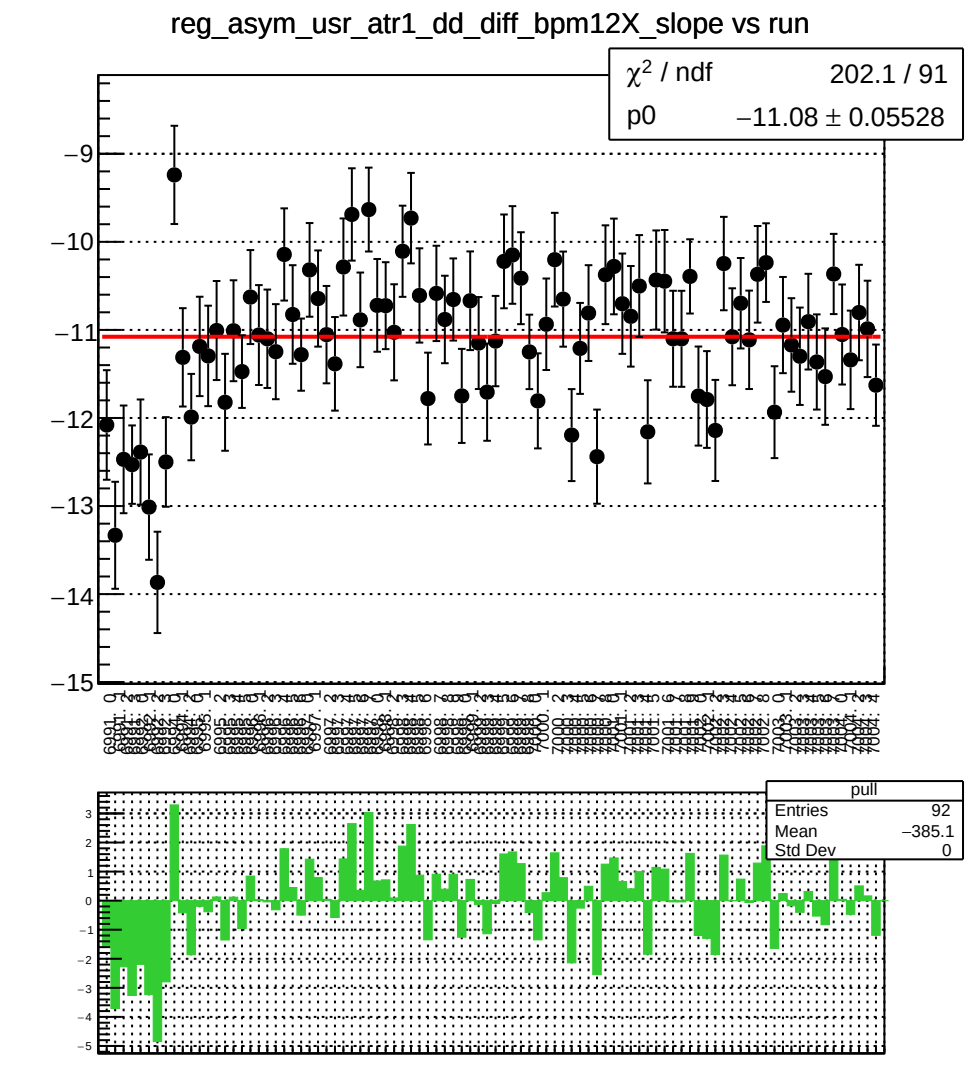

pull1D
Entries 92
Mean 0.002456
Std Dev 0.8126

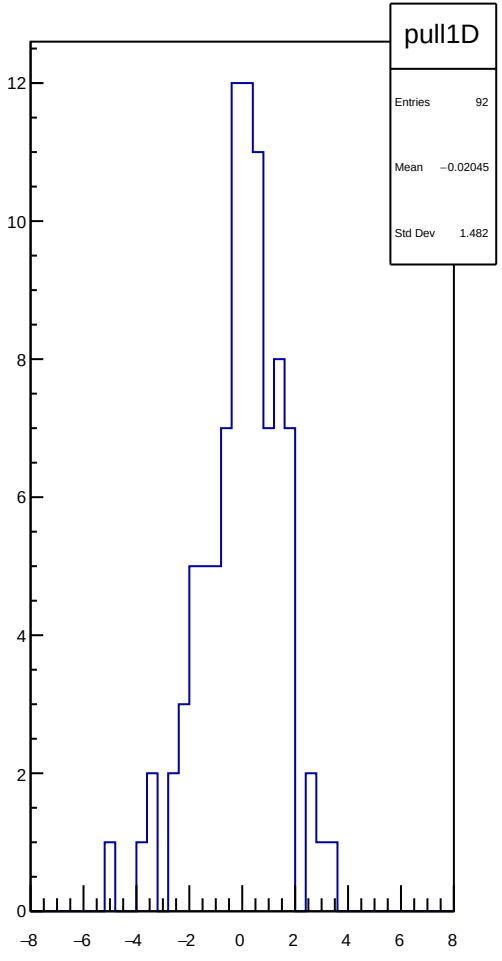

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.7 / 91
p0 72.74 ± 1.588
120
100
80
60
40
20
pull
Entries 92
Mean −374
Std Dev 0
2
1
0
−1
−2

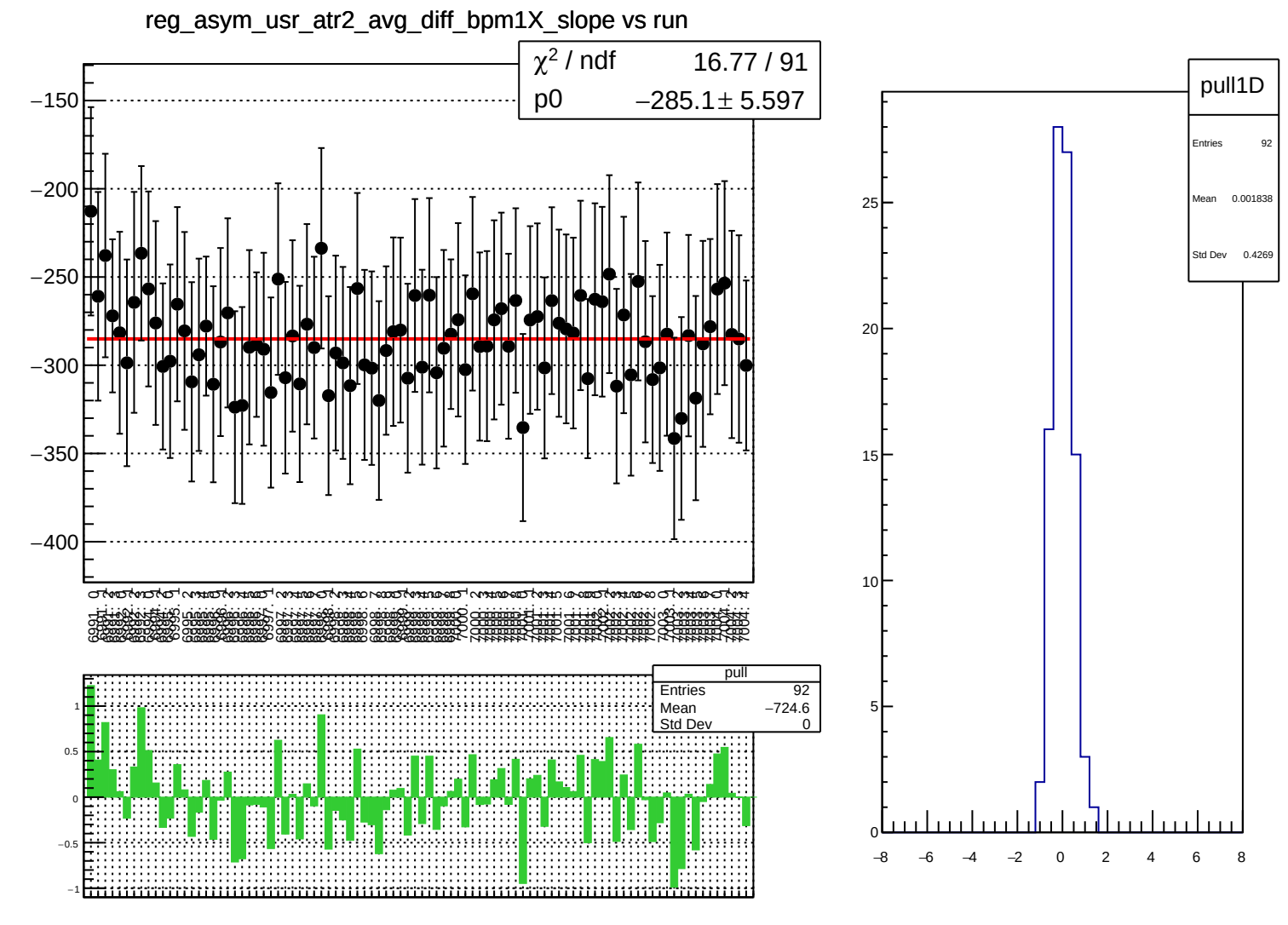

pull1D
Entries 92
Mean 0.003021
Std Dev 0.9365
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

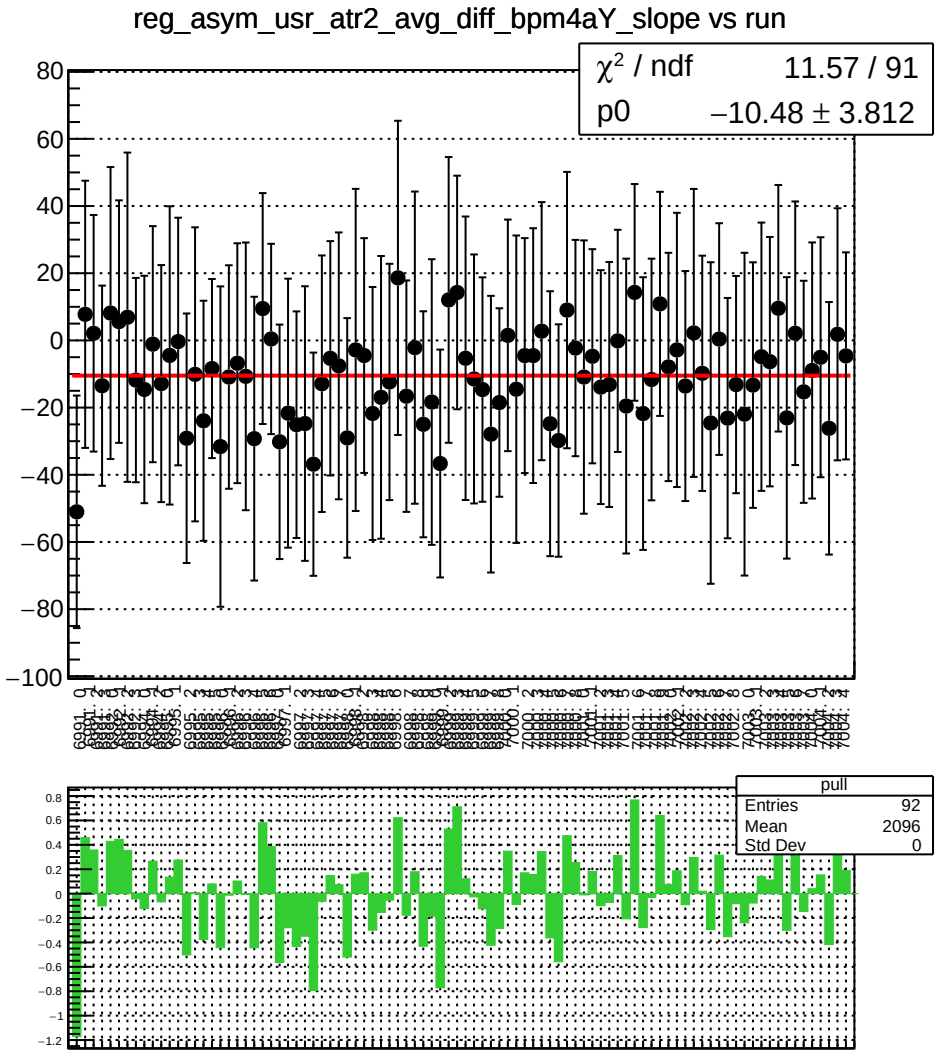

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.64 / 91
p0 20.54 ± 1.236
pull
Entries 92
Mean 658.4
Std Dev 0

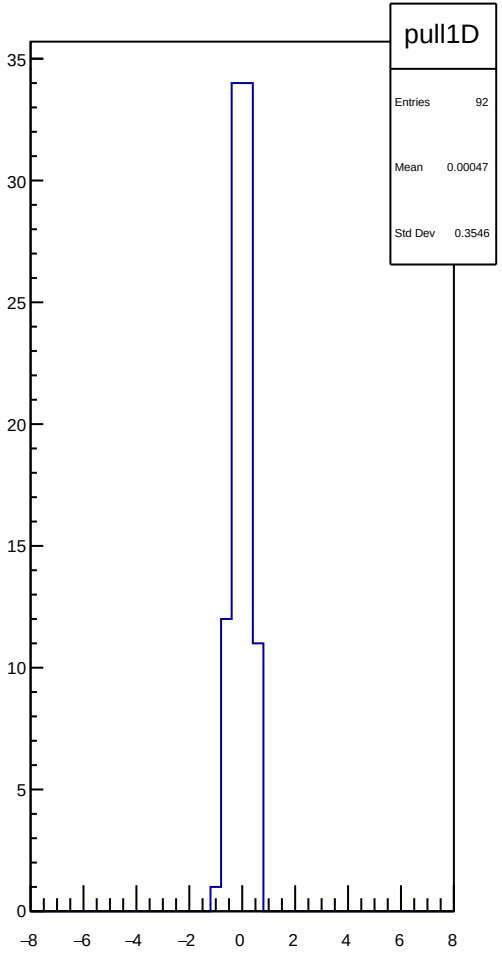

pull1D
Entries 92
Mean −0.006456
Std Dev 0.7983

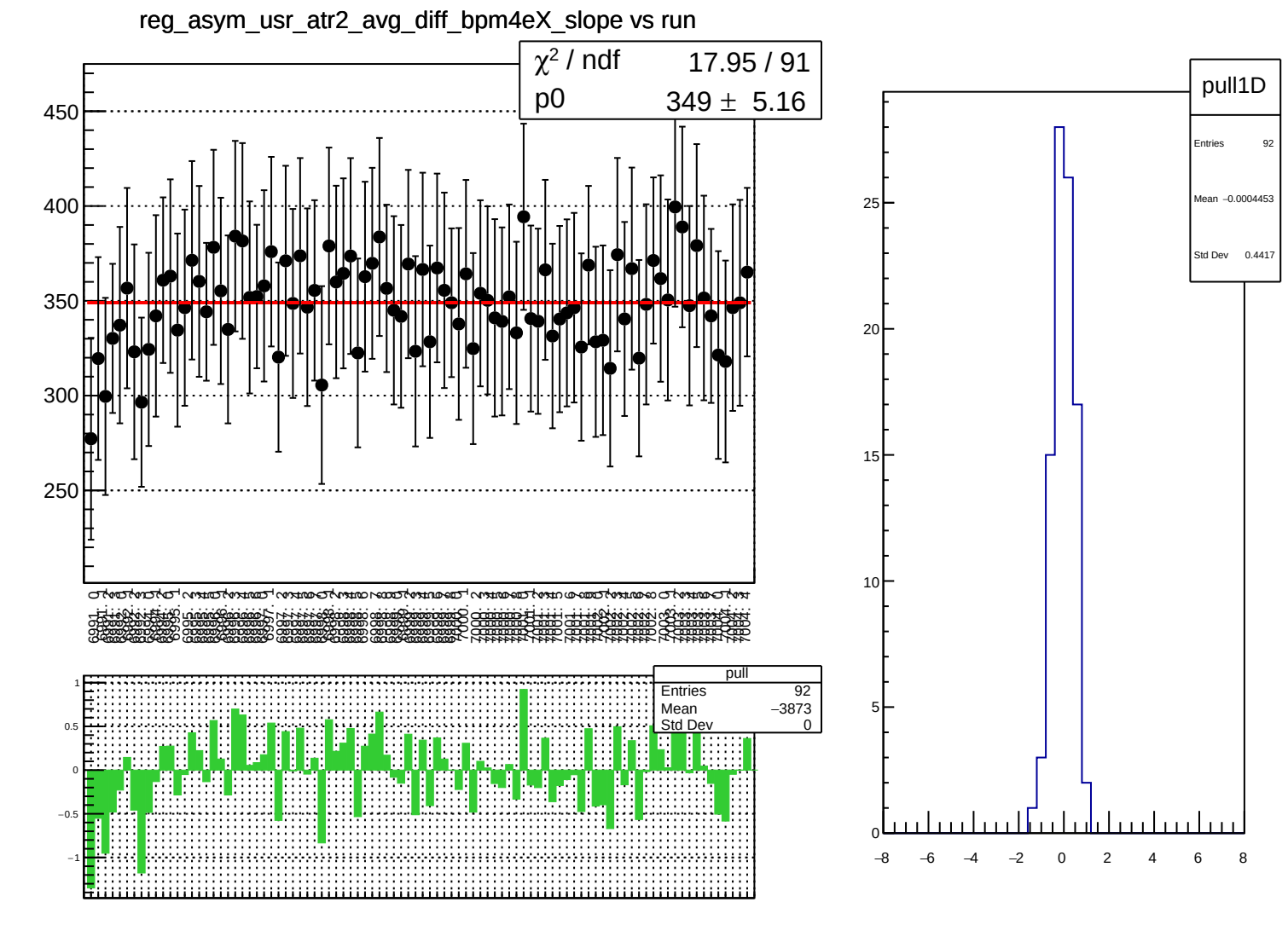

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 202.1 / 91
p0 −11.08 ± 0.05528
pull
Entries 92
Mean −385.1
Std Dev 0

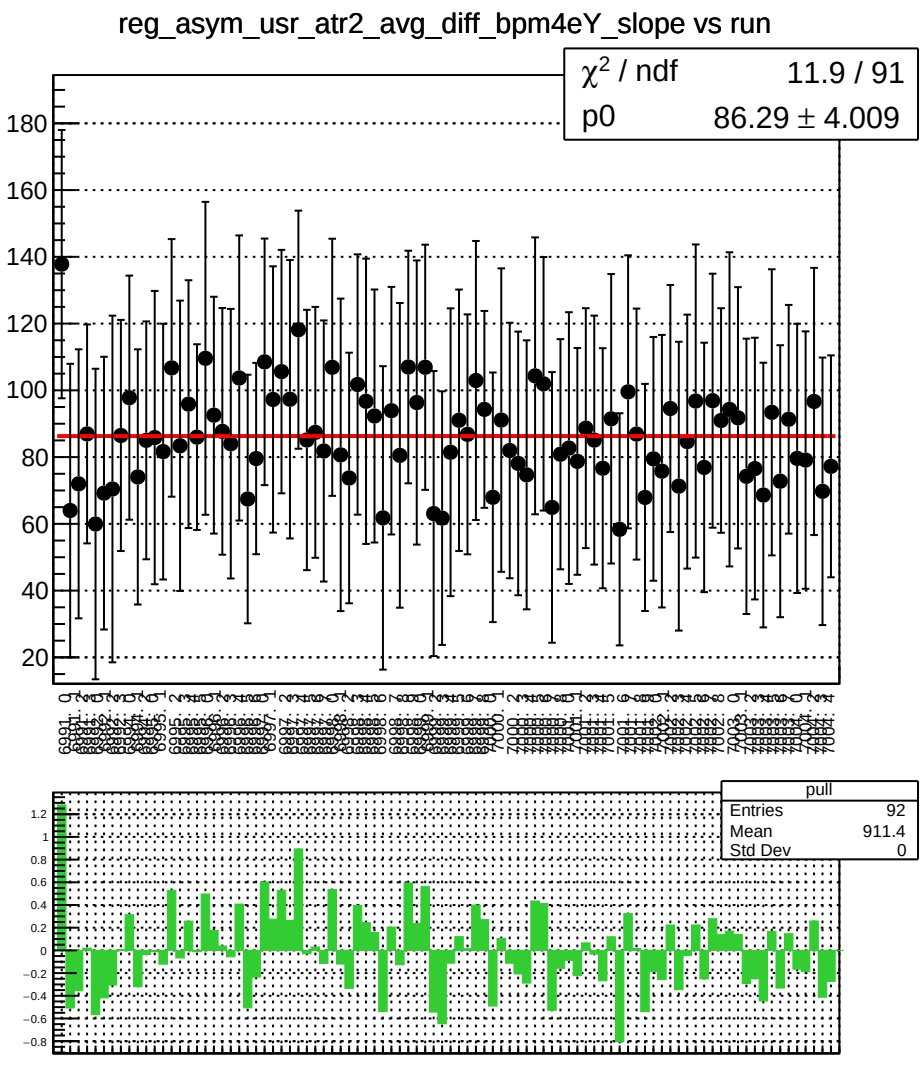

pull1D
Entries 92
Mean −0.02045
Std Dev 1.482

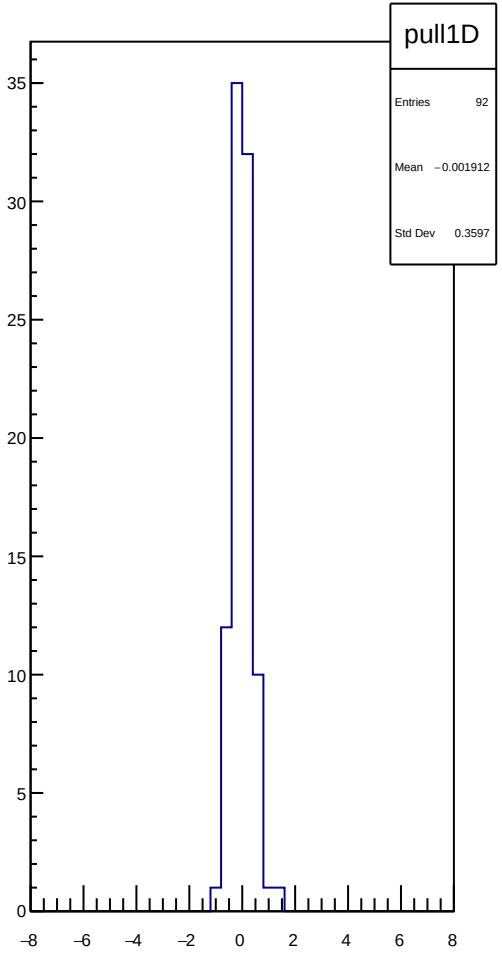

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 16.77 / 91
p0 −285.1 ± 5.597
−150
−200
−250
−300
−350
−400
pull
Entries 92
Mean −724.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.001838
Std Dev 0.4269
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

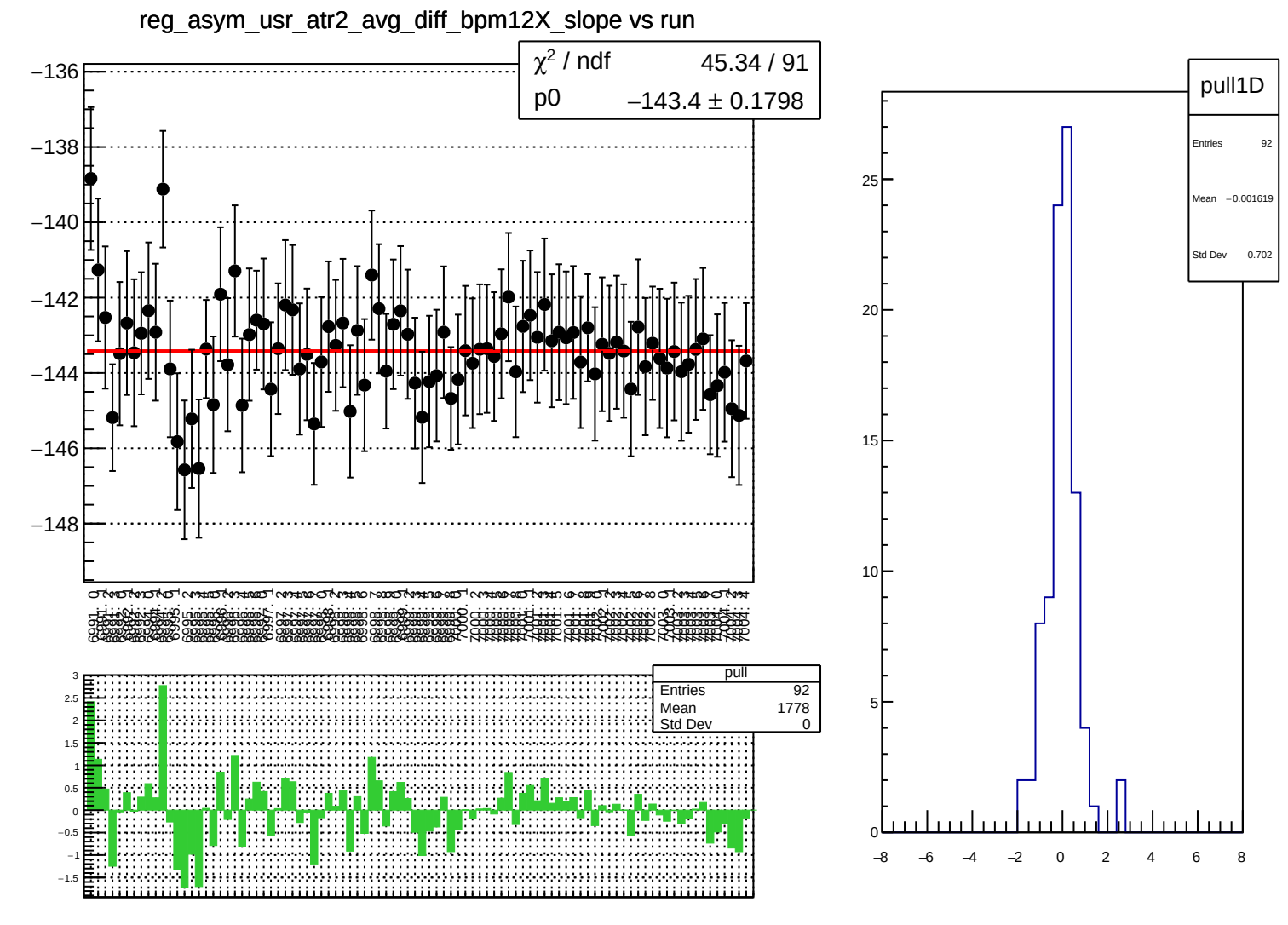

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.57 / 91
p0 −10.48 ± 3.812
pull
Entries 92
Mean 2096
Std Dev 0

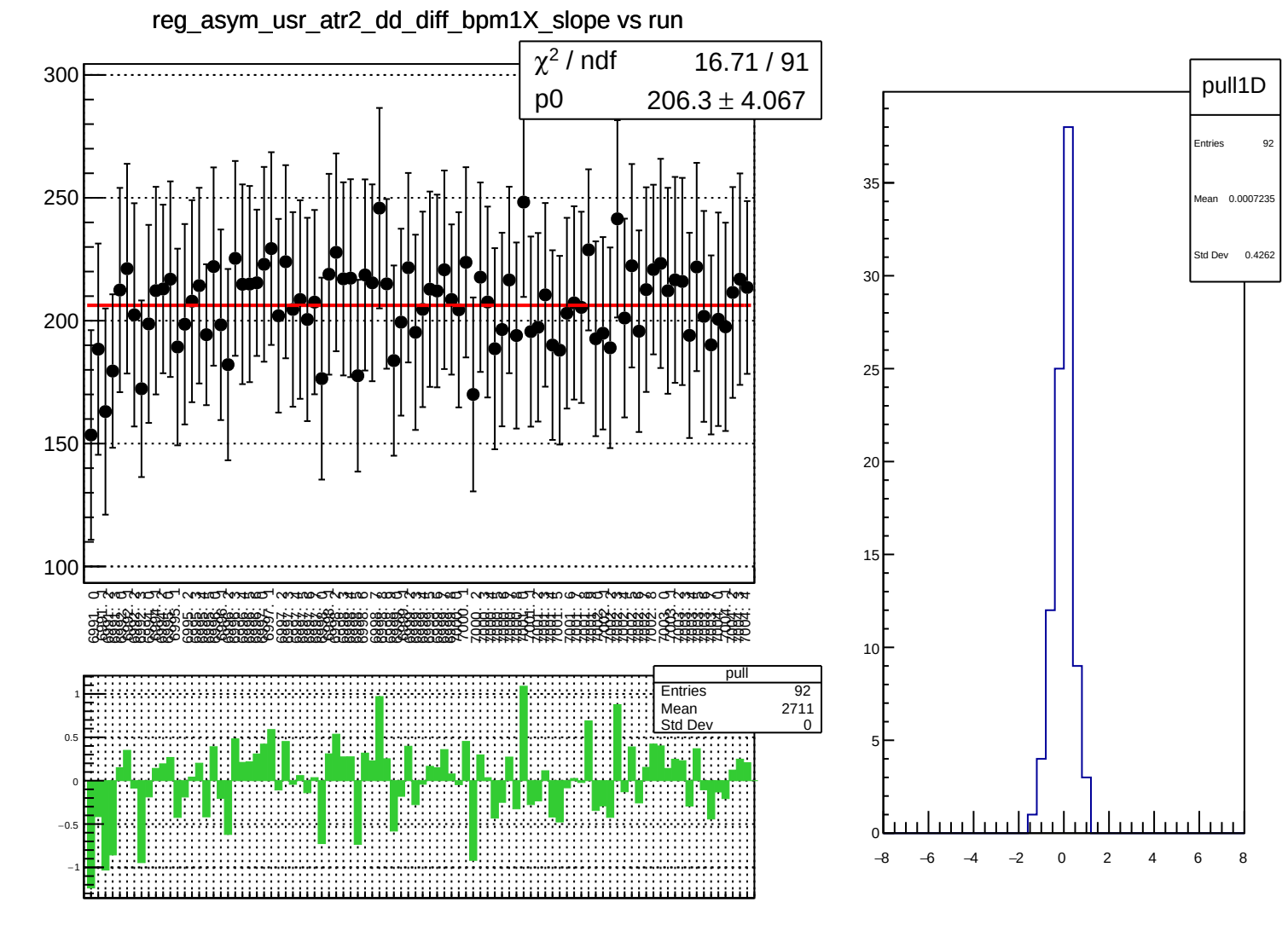

pull1D
Entries 92
Mean 0.00047
Std Dev 0.3546

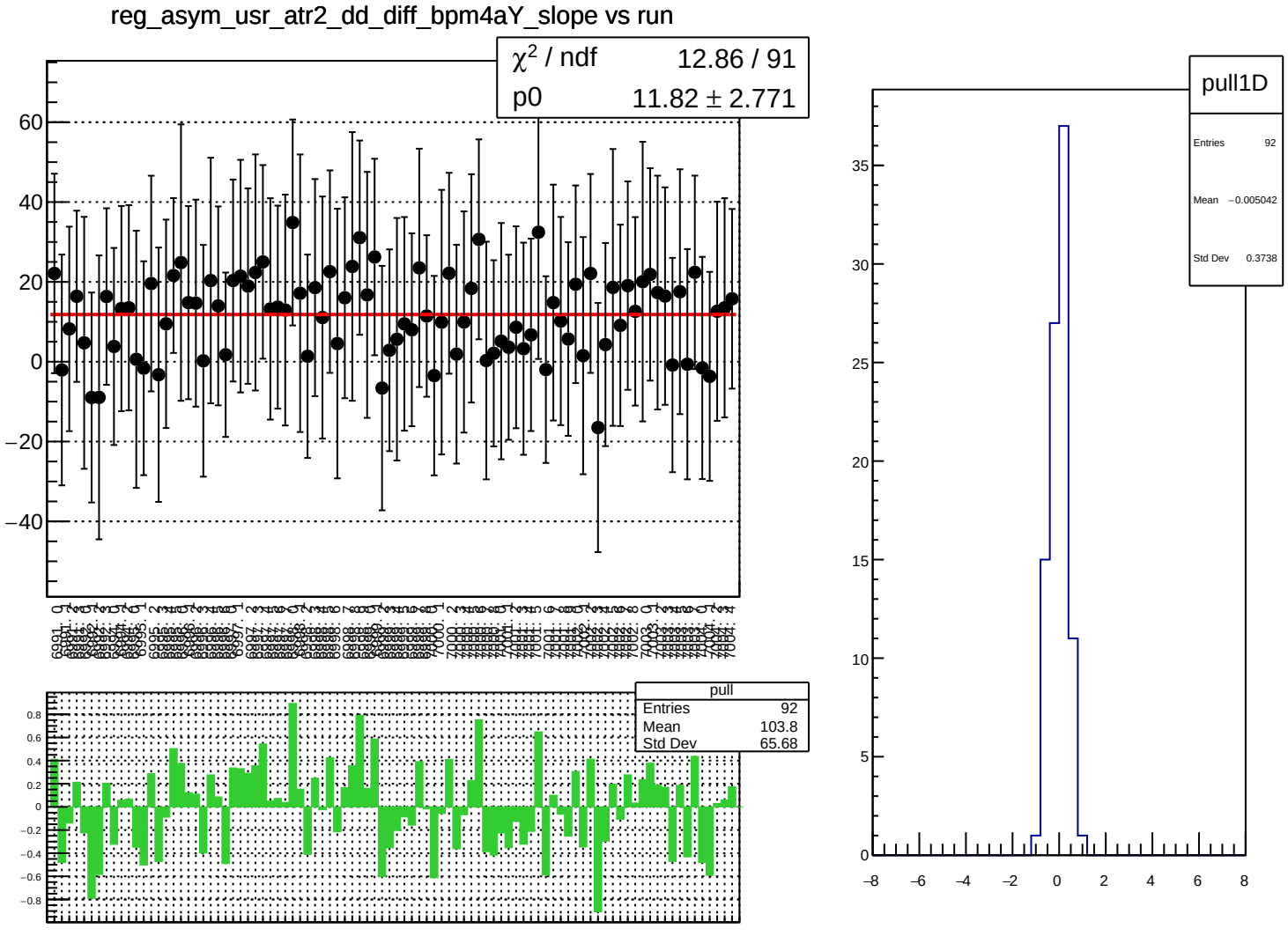

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.95 / 91
p0 349 ± 5.16
450
400
350
300
250
pull
Entries 92
Mean −3873
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.0004453
Std Dev 0.4417
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

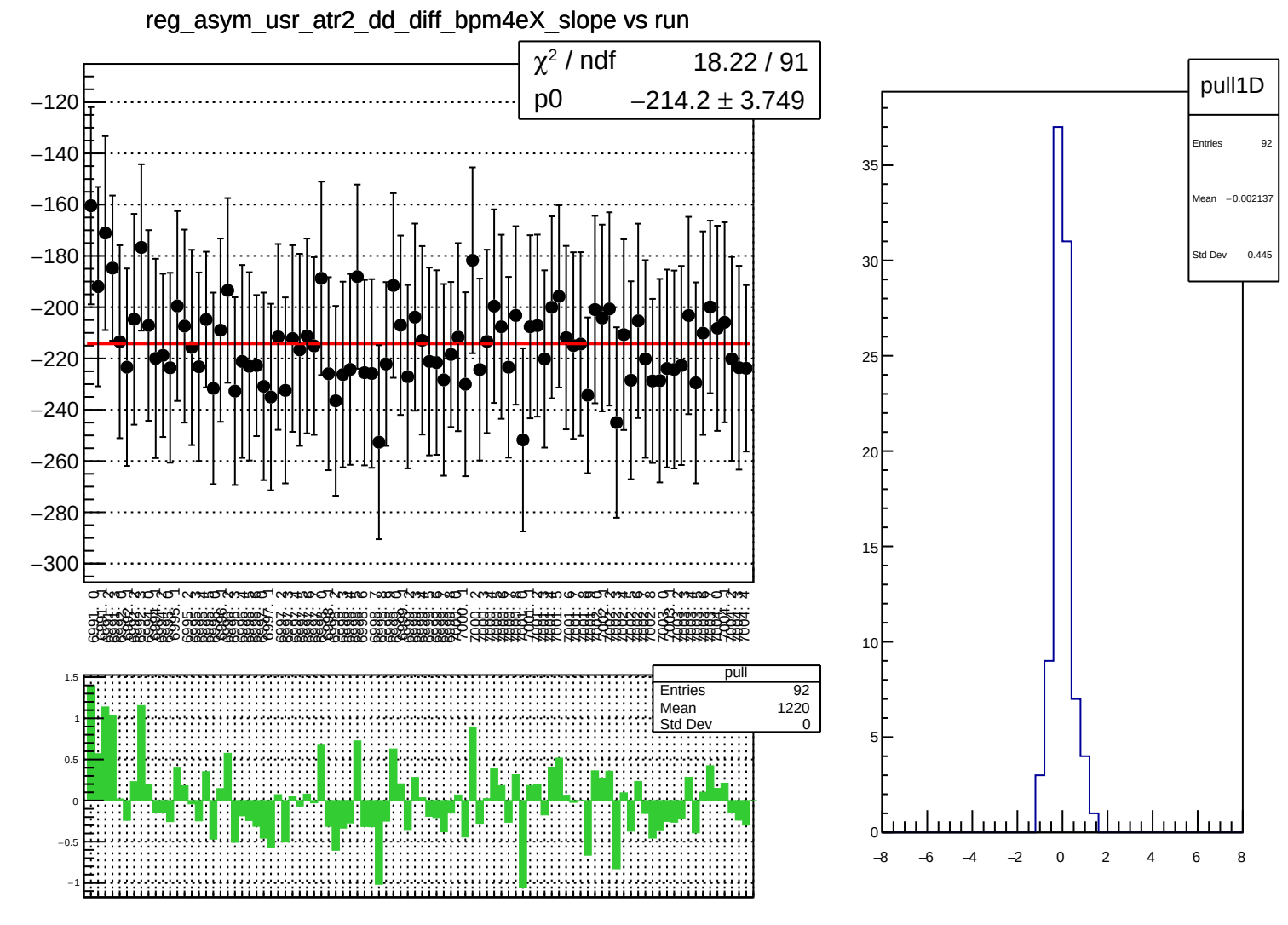

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.9 / 91
p0 86.29 ± 4.009
pull
Entries 92
Mean 911.4
Std Dev 0

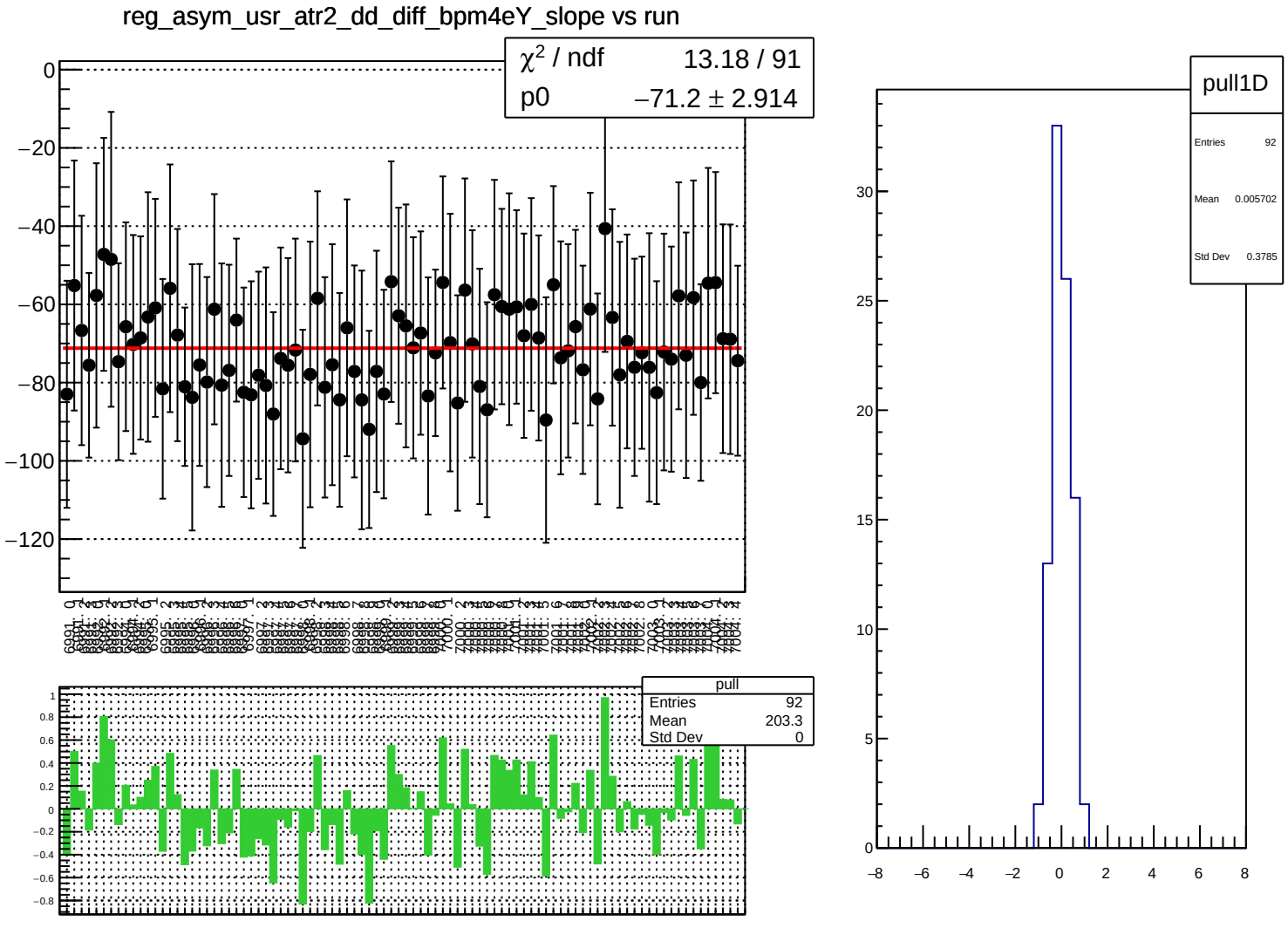

pull1D
Entries 92
Mean −0.001912
Std Dev 0.3597

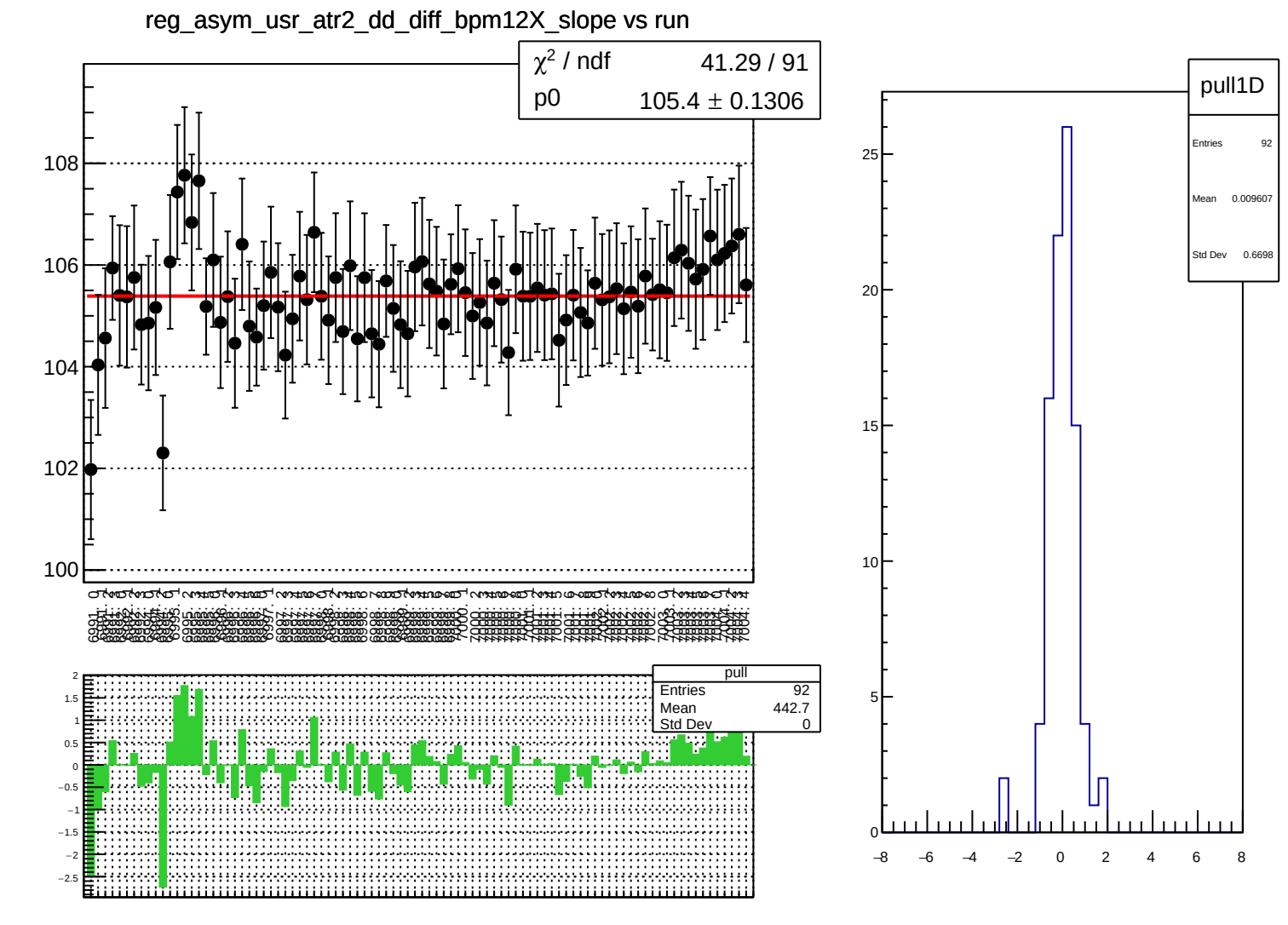

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 45.34 / 91
p0 −143.4 ± 0.1798
pull
Entries 92
Mean 1778
Std Dev 0
pull1D
Entries 92
Mean −0.001619
Std Dev 0.702

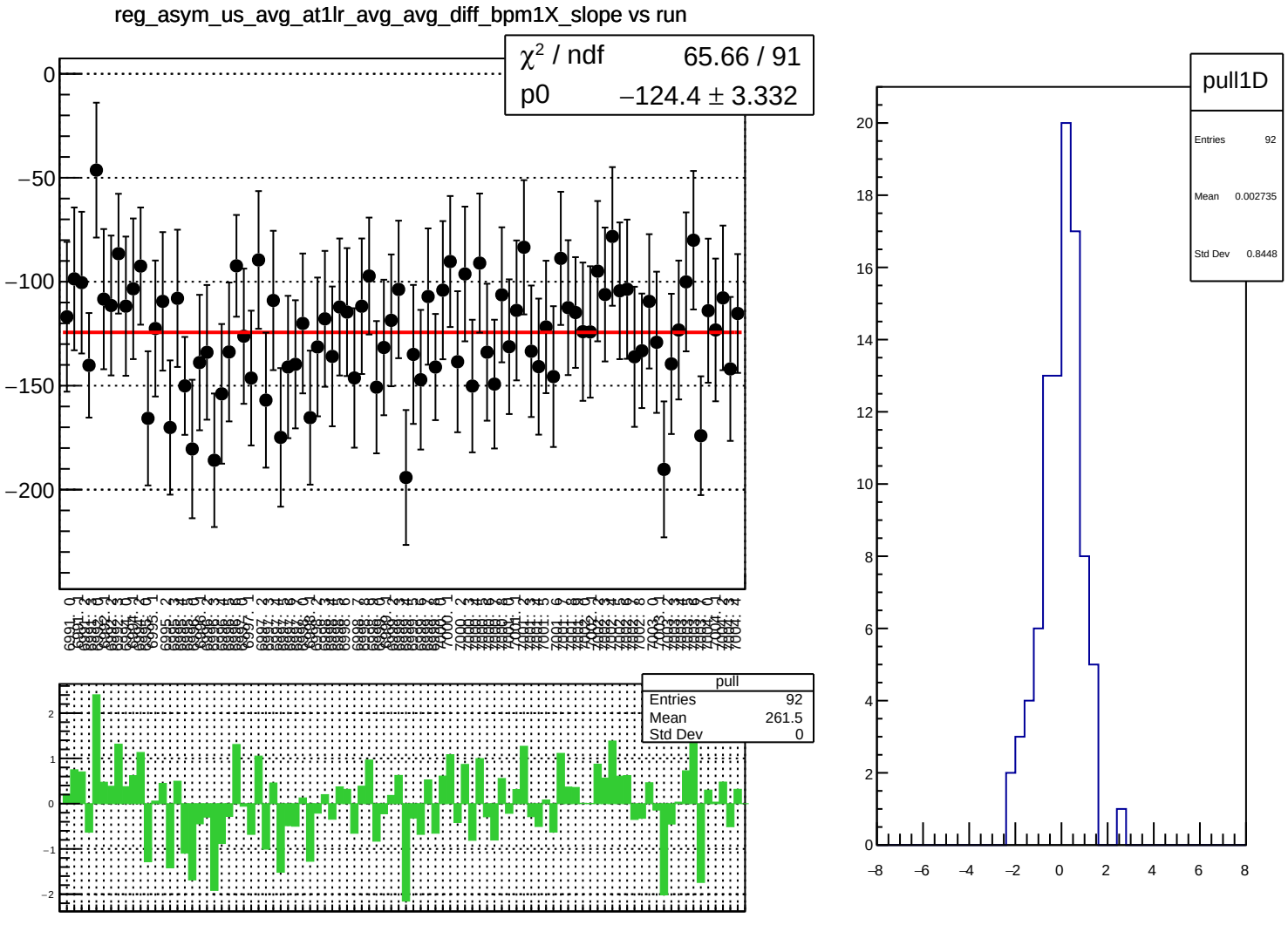

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.71 / 91
p0 206.3 ± 4.067
300
250
200
150
100
pull
Entries 92
Mean 2711
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.0007235
Std Dev 0.4262
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

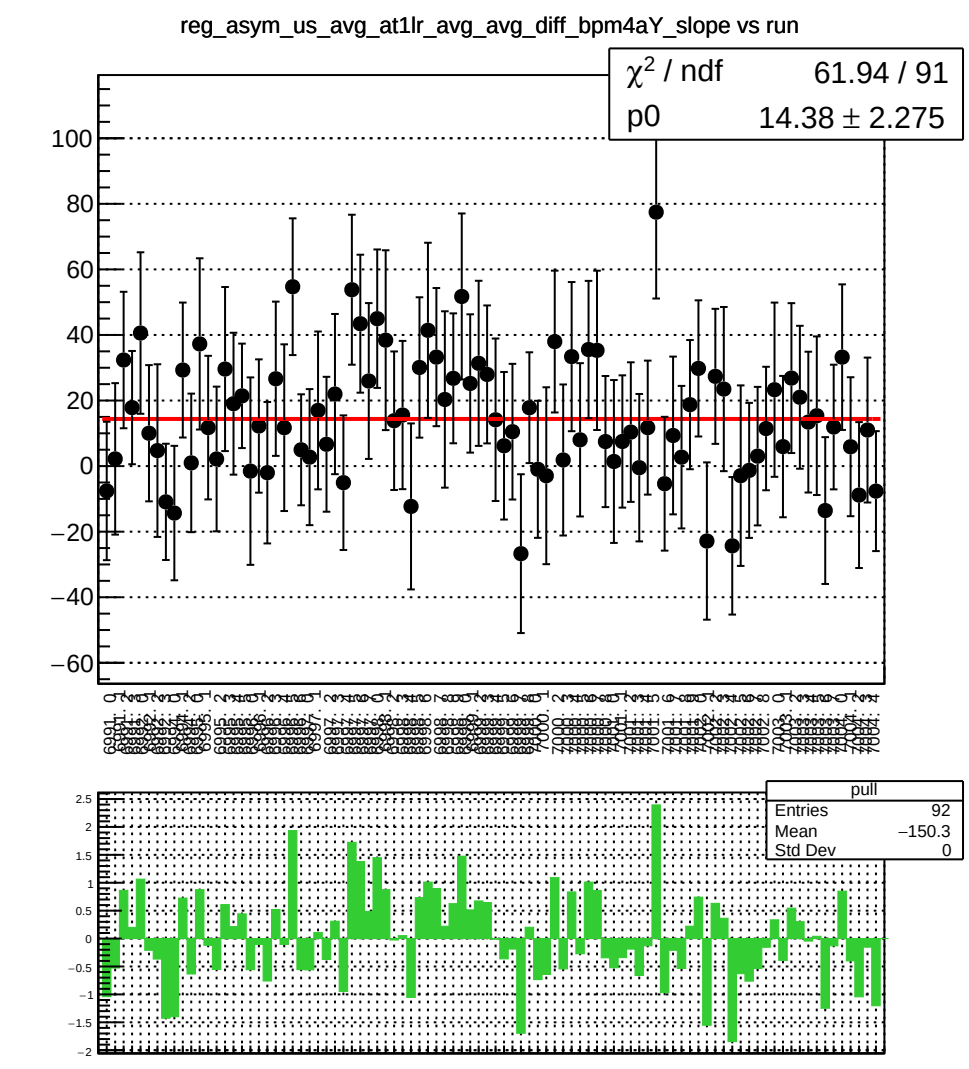

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.86 / 91
p0 11.82 ± 2.771
pull
Entries 92
Mean 103.8
Std Dev 65.68
pull1D
Entries 92
Mean −0.005042
Std Dev 0.3738

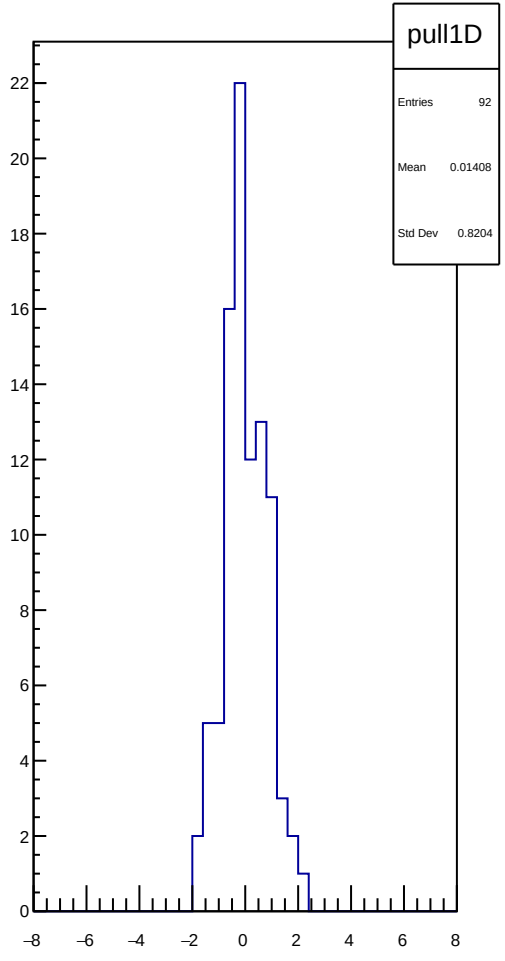

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.22 / 91
p0 −214.2 ± 3.749
pull
Entries 92
Mean 1220
Std Dev 0
pull1D
Entries 92
Mean −0.002137
Std Dev 0.445

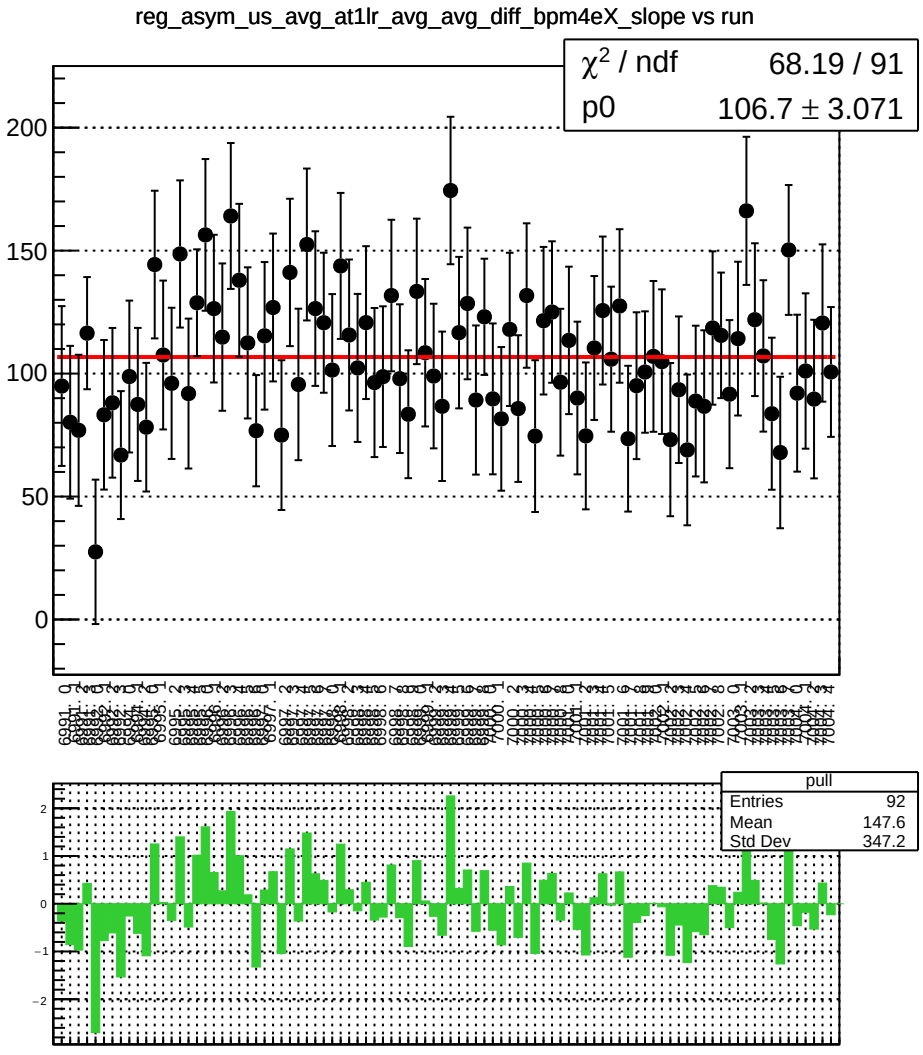

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.18 / 91
p0 −71.2 ± 2.914
pull
Entries 92
Mean 203.3
Std Dev 0
pull1D
Entries 92
Mean 0.005702
Std Dev 0.3785

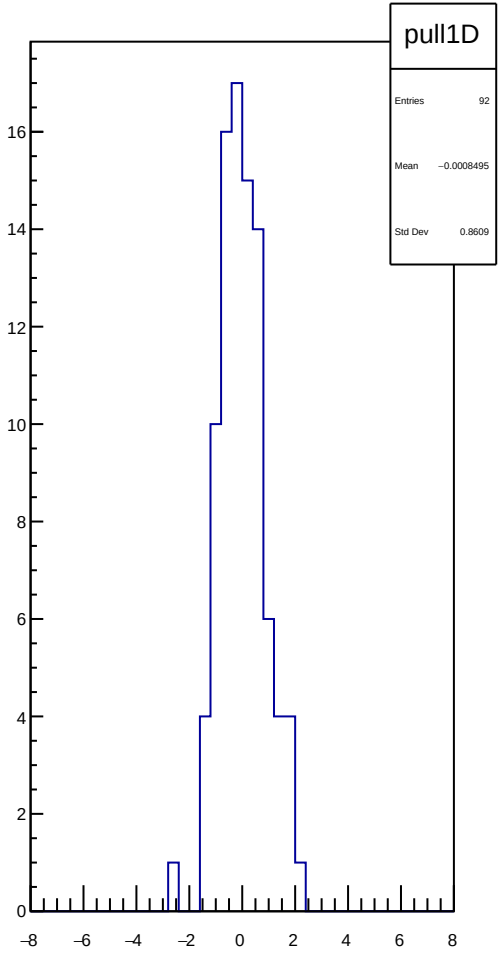

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 41.29 / 91
p0 105.4 ± 0.1306
108
106
104
102
100
pull
Entries 92
Mean 442.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean 0.009607
Std Dev 0.6698
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

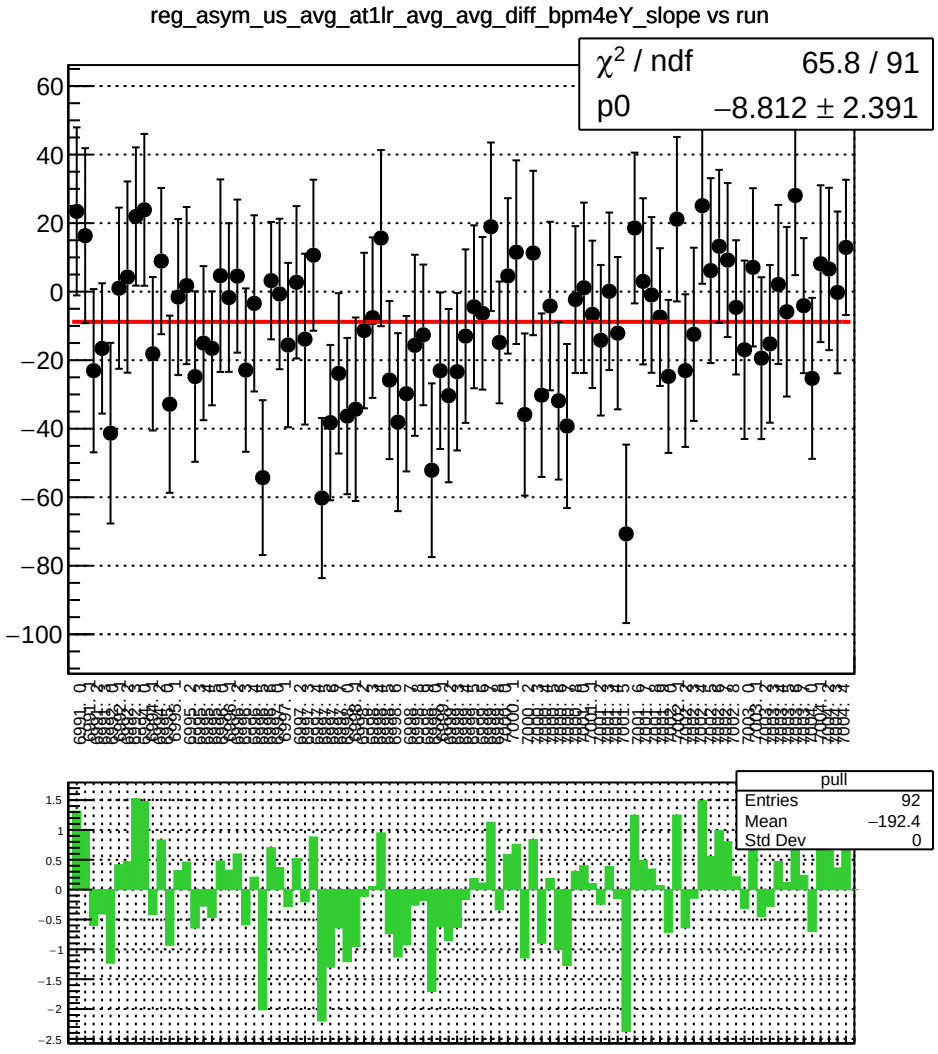

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 65.66 / 91
p0 −124.4 ± 3.332
0
−50
−100
−150
−200
pull
Entries 92
Mean 261.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002735
Std Dev 0.8448
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

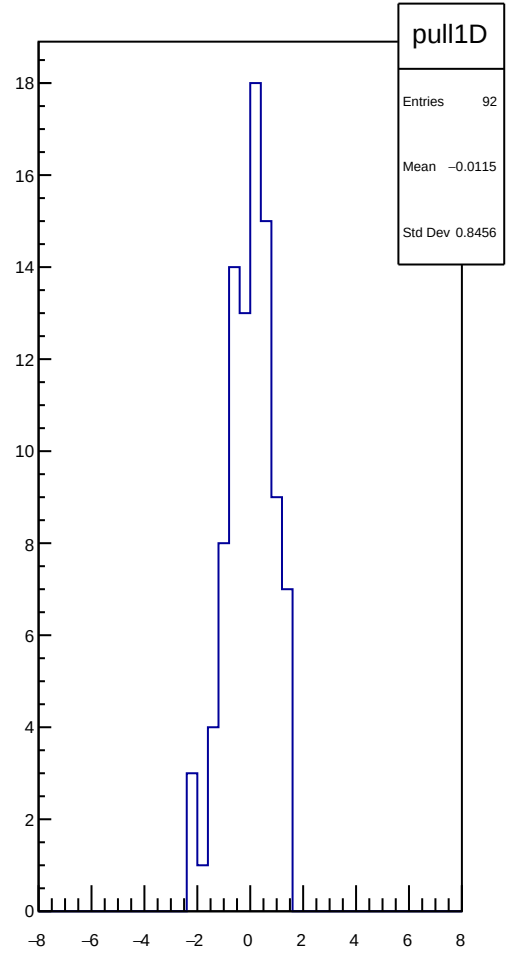

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.94 / 91
p0 14.38 ± 2.275
pull
Entries 92
Mean −150.3
Std Dev 0

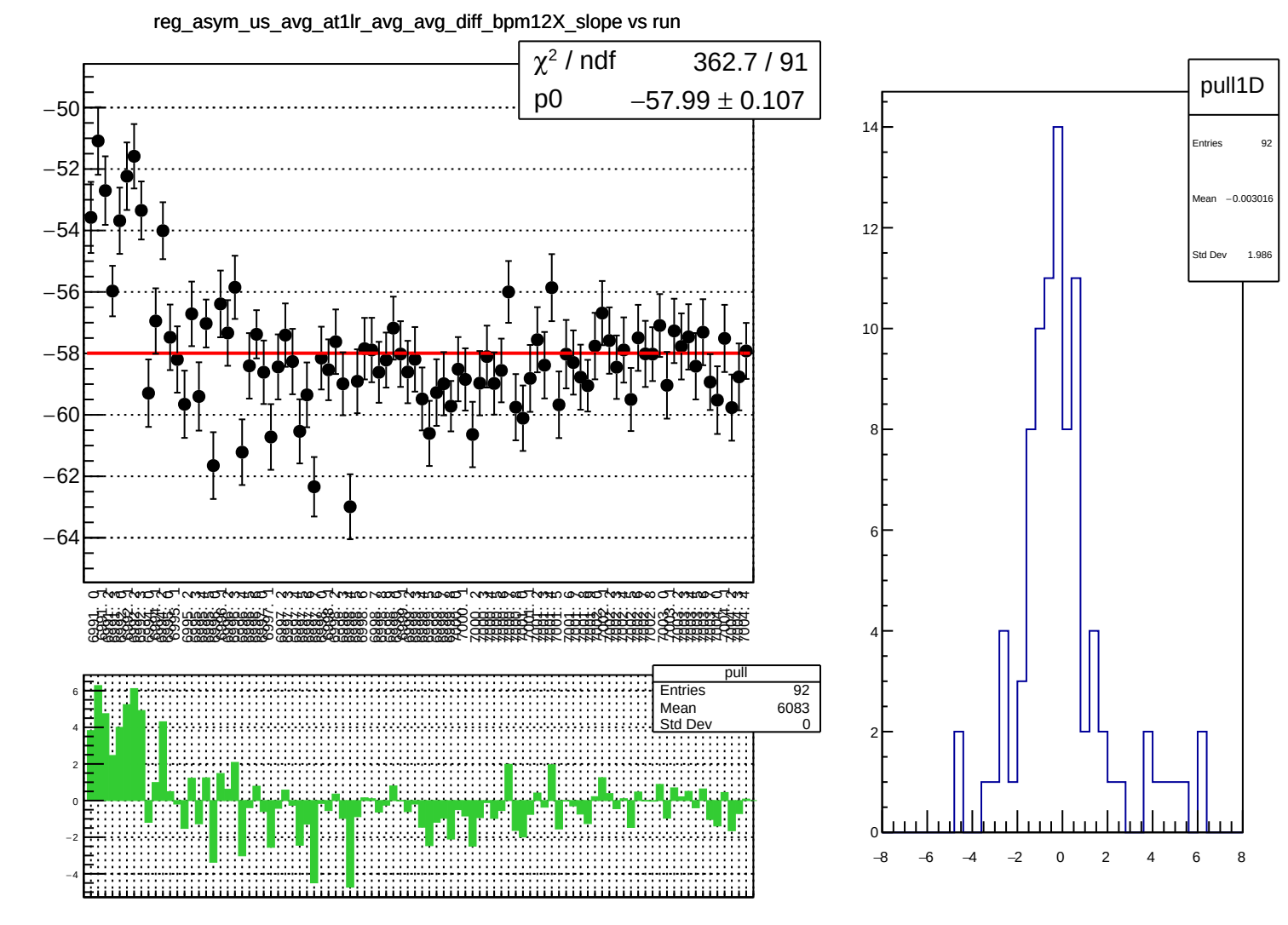

pull1D
Entries 92
Mean 0.01408
Std Dev 0.8204

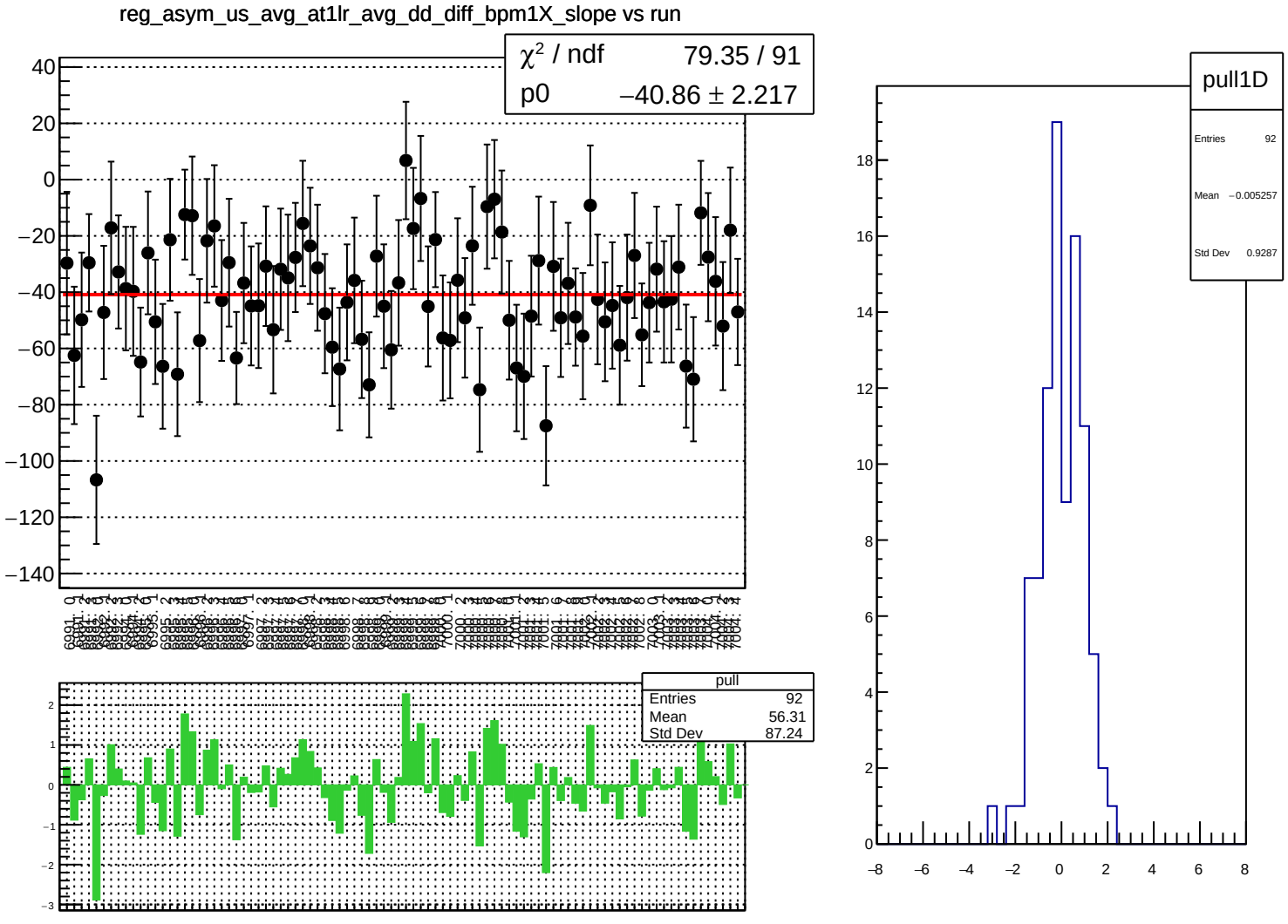

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.19 / 91
p0 106.7 ± 3.071
200
150
100
50
0
pull
Entries 92
Mean 147.6
Std Dev 347.2
2
1
0
−1
−2

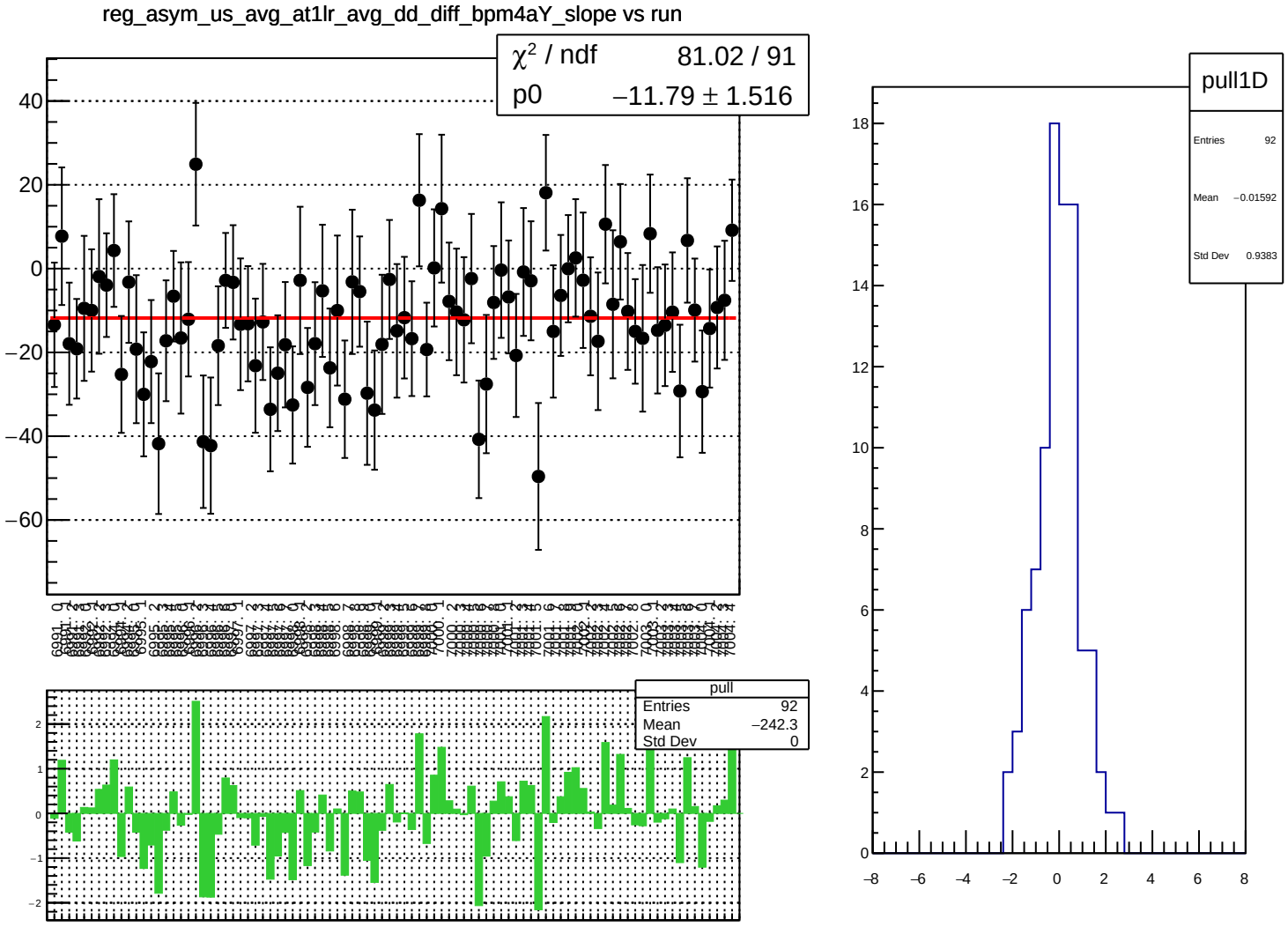

pull1D
Entries 92
Mean −0.0008495
Std Dev 0.8609
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

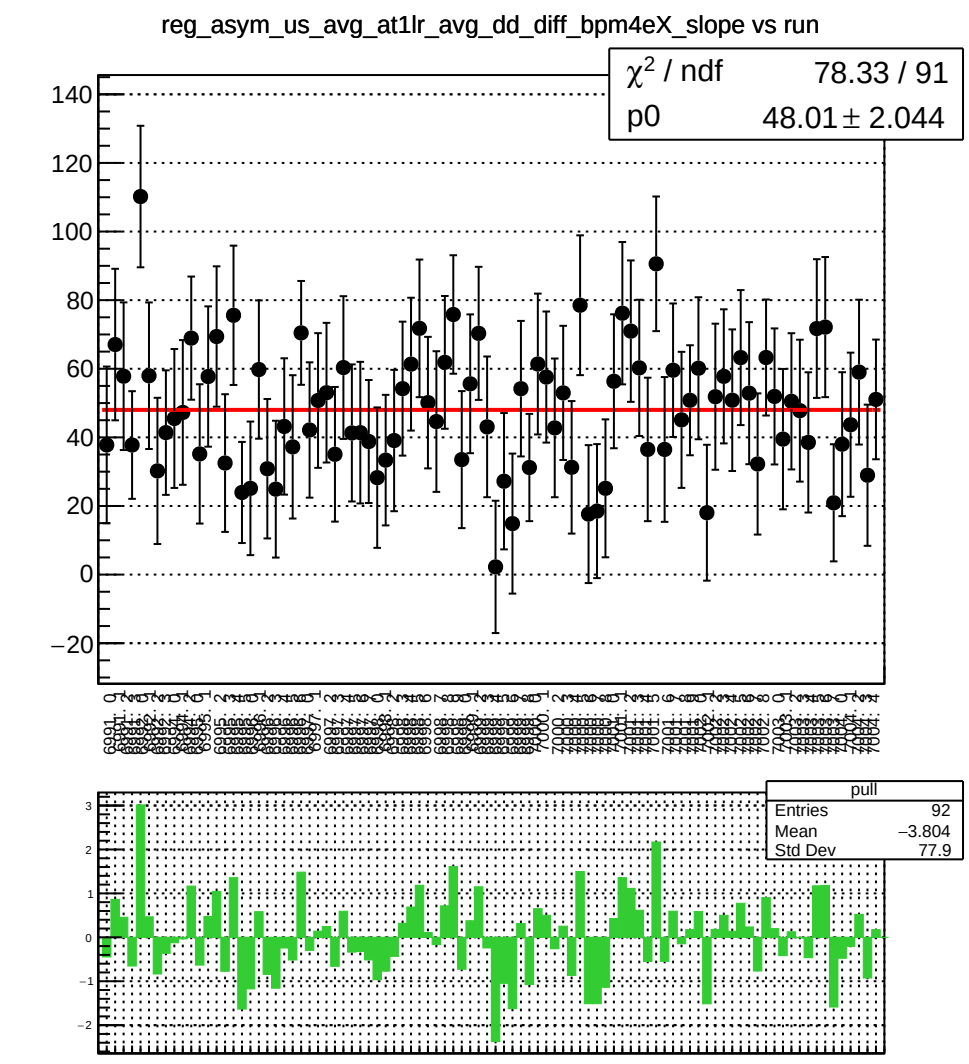

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.8 / 91
p0 −8.812 ± 2.391
pull
Entries 92
Mean −192.4
Std Dev 0

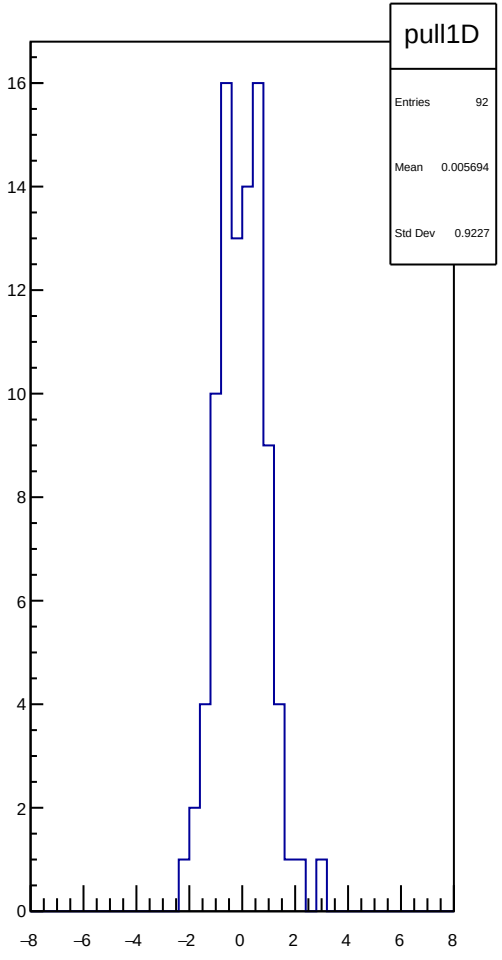

pull1D
Entries 92
Mean −0.0115
Std Dev 0.8456

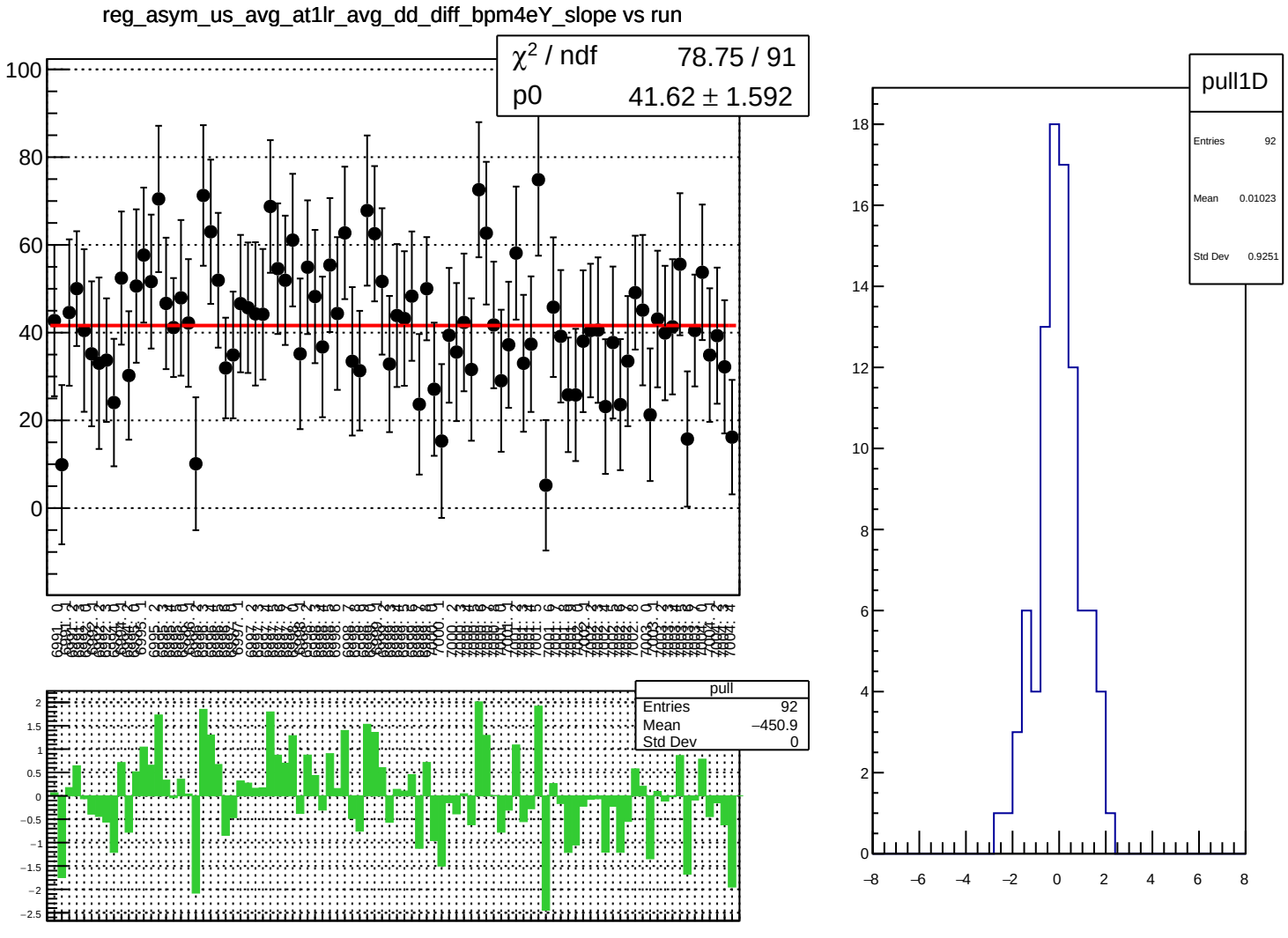

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 362.7 / 91
p0 −57.99 ± 0.107
pull
Entries 92
Mean 6083
Std Dev 0
pull1D
Entries 92
Mean −0.003016
Std Dev 1.986

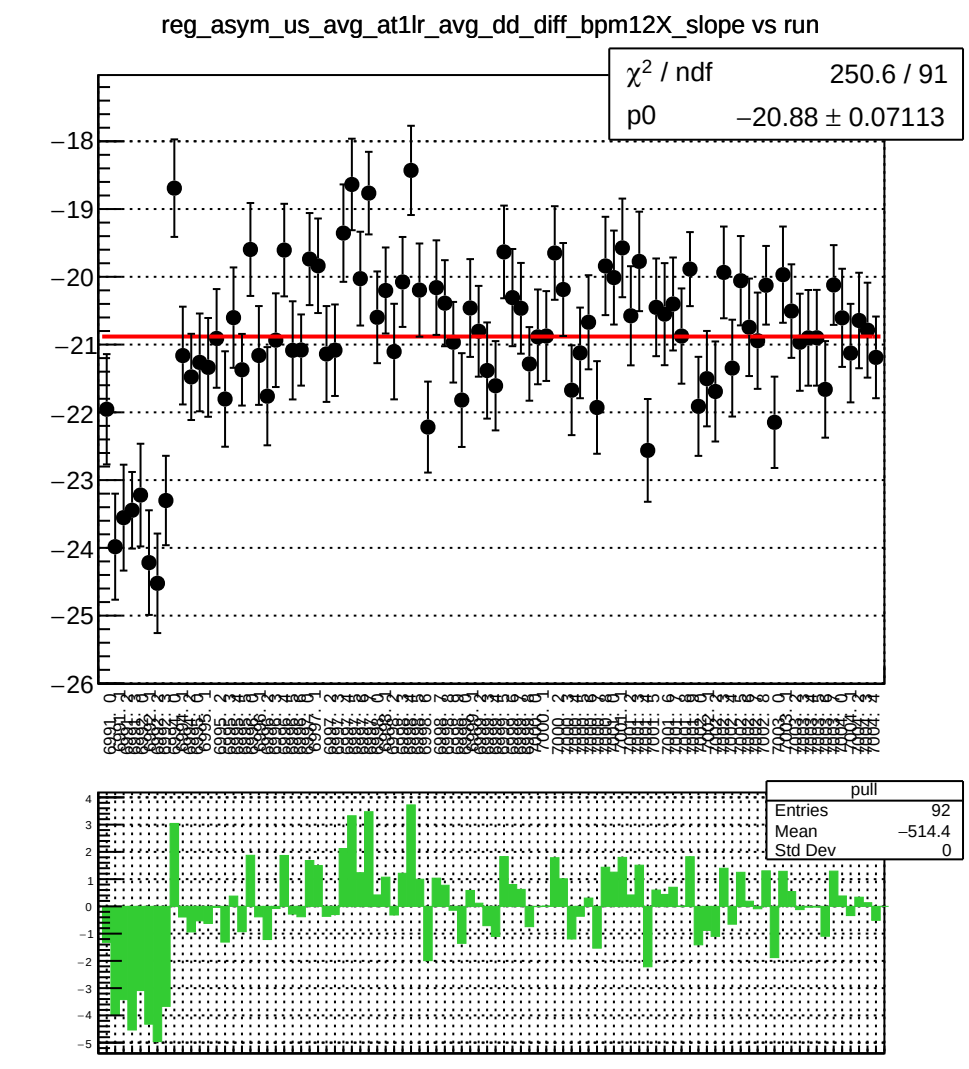

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 79.35 / 91
p0 −40.86 ± 2.217
pull
Entries 92
Mean 56.31
Std Dev 87.24
pull1D
Entries 92
Mean −0.005257
Std Dev 0.9287

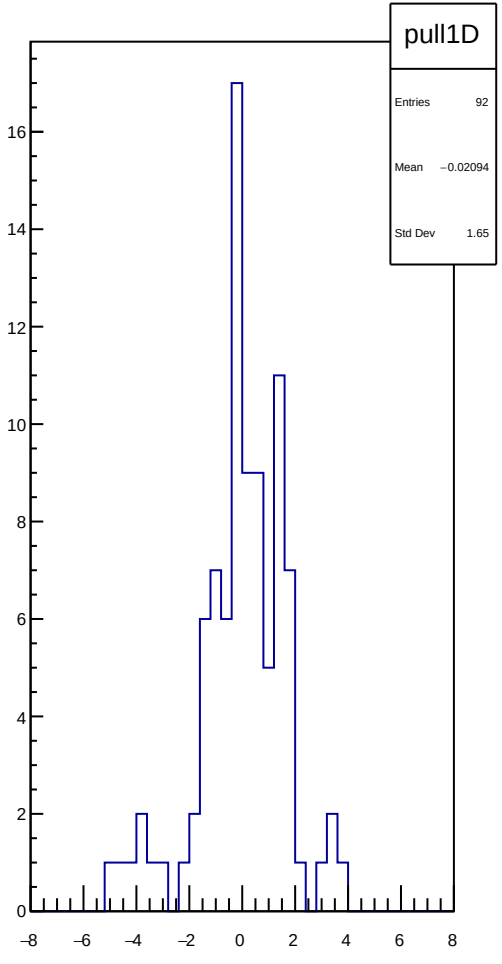

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.02 / 91
p0 −11.79 ± 1.516
pull
Entries 92
Mean −242.3
Std Dev 0
pull1D
Entries 92
Mean −0.01592
Std Dev 0.9383

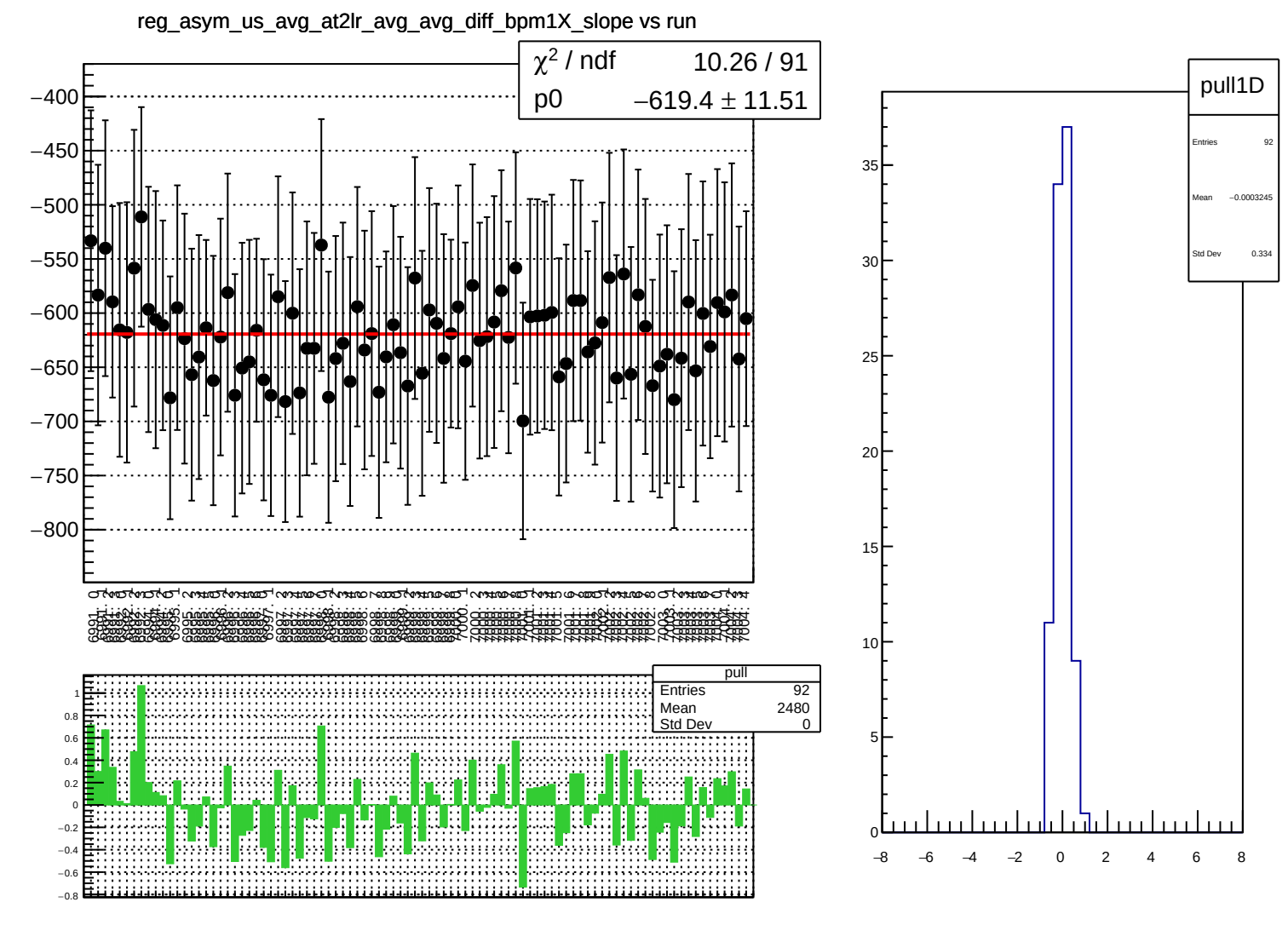

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.33 / 91
p0 48.01 ± 2.044
pull
Entries 92
Mean −3.804
Std Dev 77.9

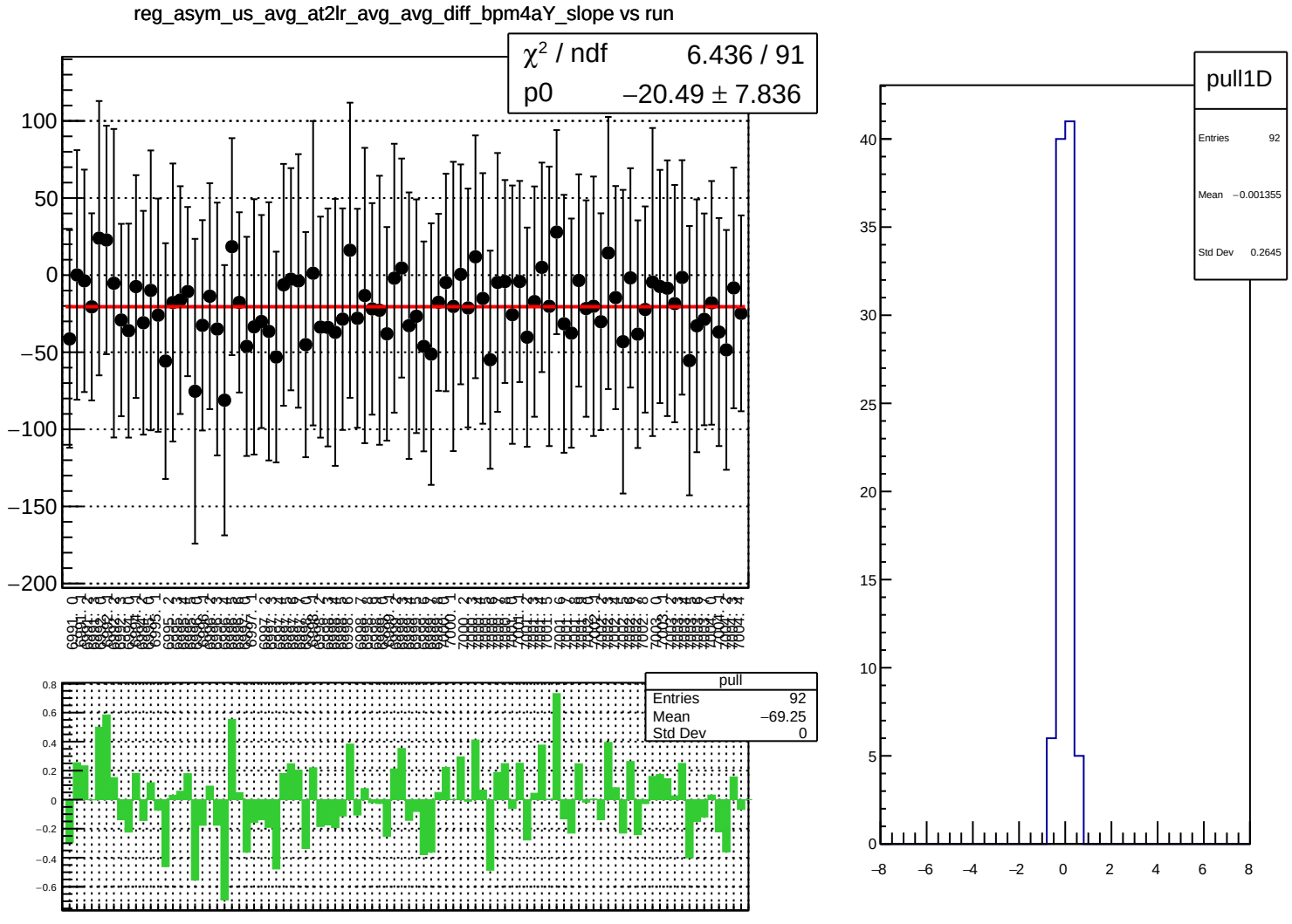

pull1D
Entries 92
Mean 0.005694
Std Dev 0.9227

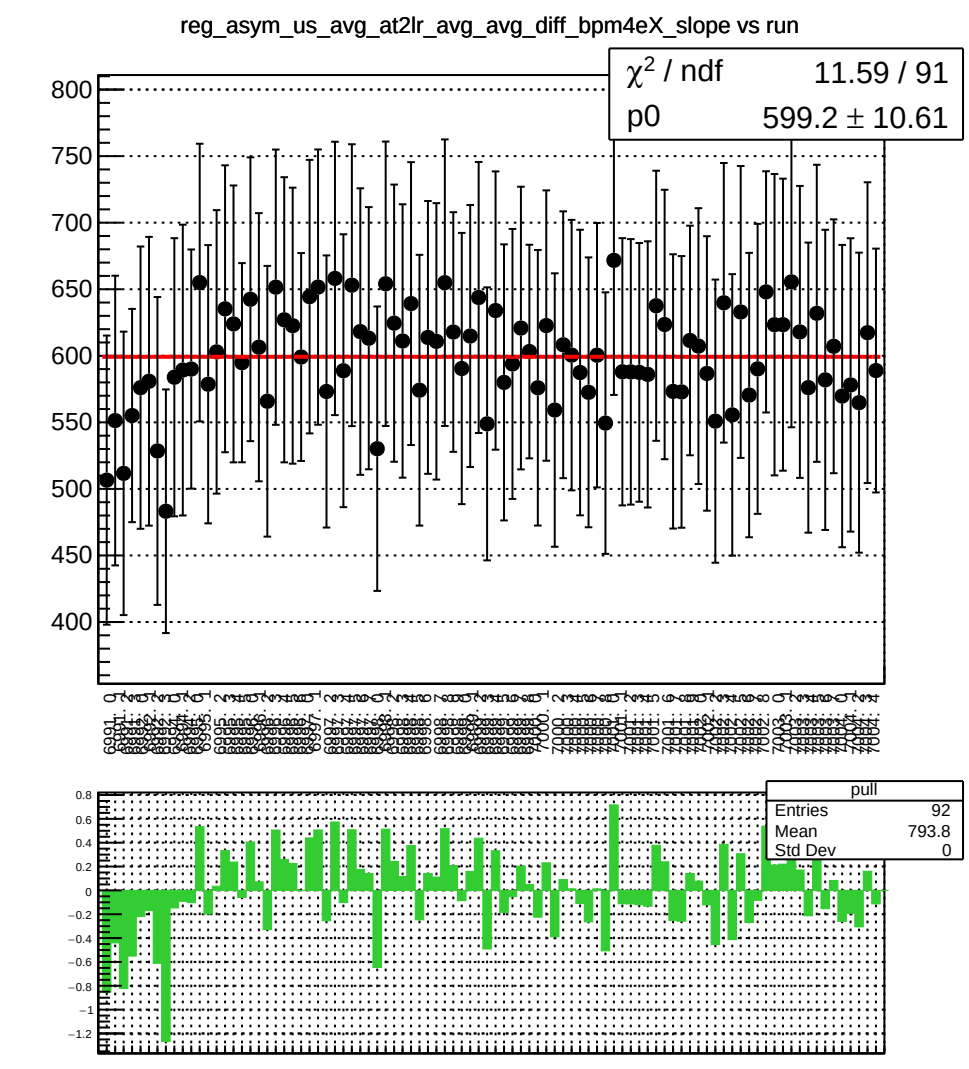

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.75 / 91
p0 41.62 ± 1.592
pull
Entries 92
Mean −450.9
Std Dev 0
pull1D
Entries 92
Mean 0.01023
Std Dev 0.9251

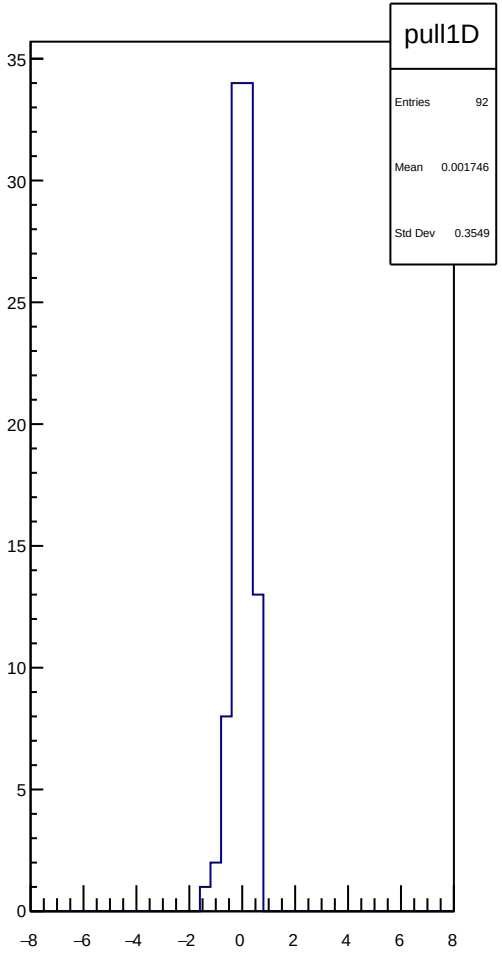

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 250.6 / 91
p0 −20.88 ± 0.07113
pull
Entries 92
Mean −514.4
Std Dev 0

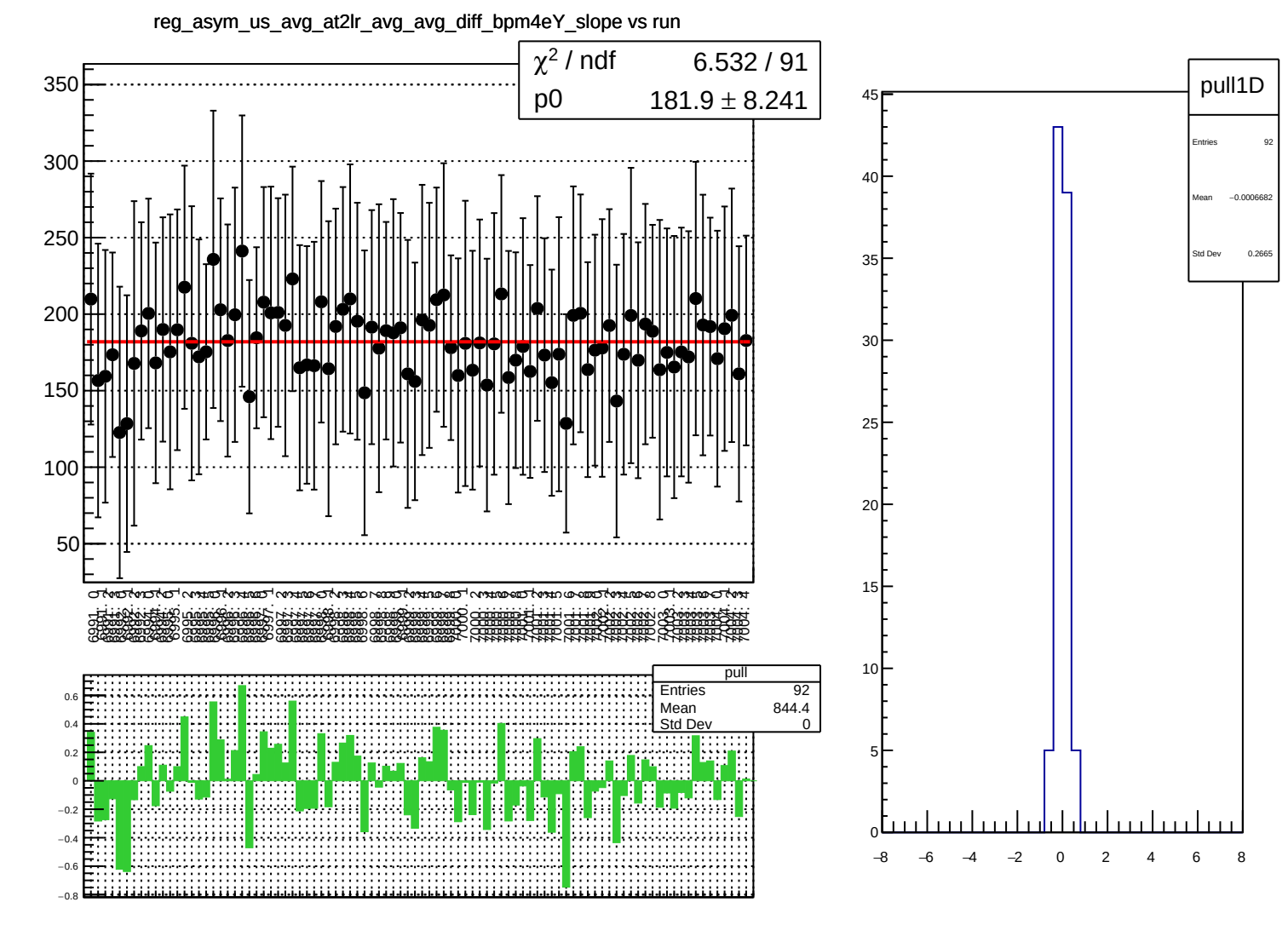

pull1D
Entries 92
Mean −0.02094
Std Dev 1.65

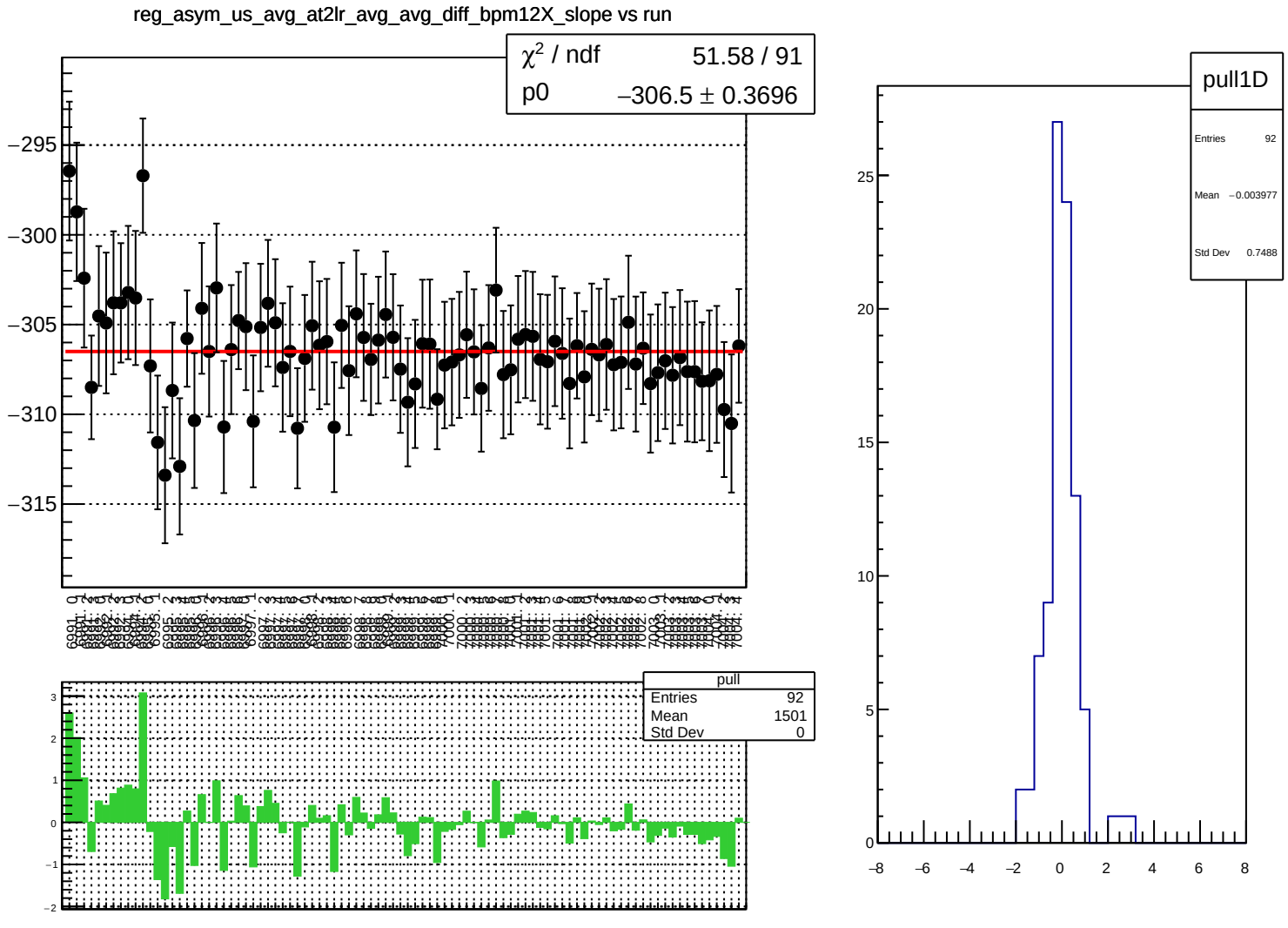

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 10.26 / 91
p0 −619.4 ± 11.51
pull
Entries 92
Mean 2480
Std Dev 0
pull1D
Entries 92
Mean −0.0003245
Std Dev 0.334

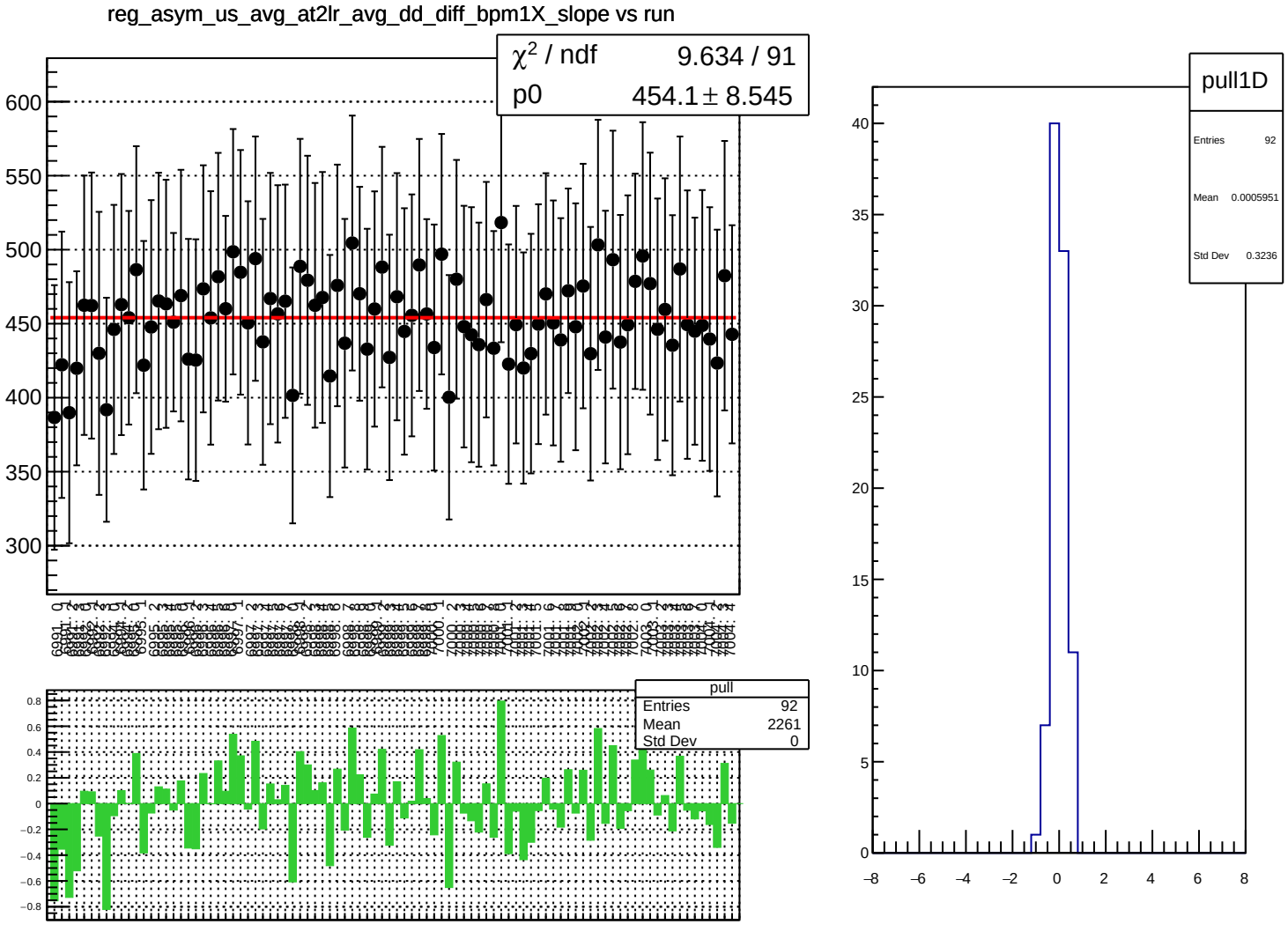

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.436 / 91
p0 −20.49 ± 7.836
pull
Entries 92
Mean −69.25
Std Dev 0
pull1D
Entries 92
Mean −0.001355
Std Dev 0.2645

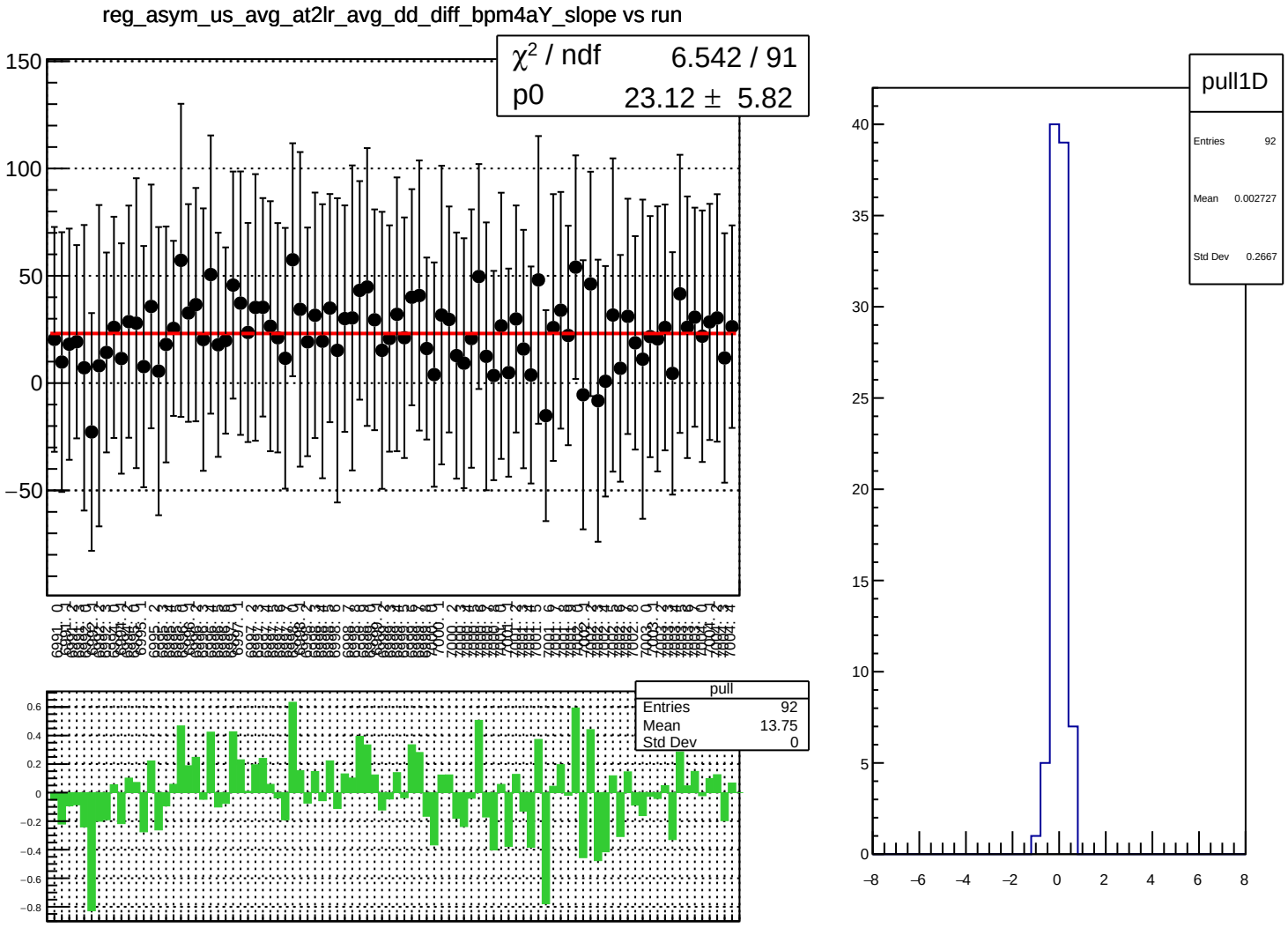

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.59 / 91
p0 599.2 ± 10.61
pull
Entries 92
Mean 793.8
Std Dev 0

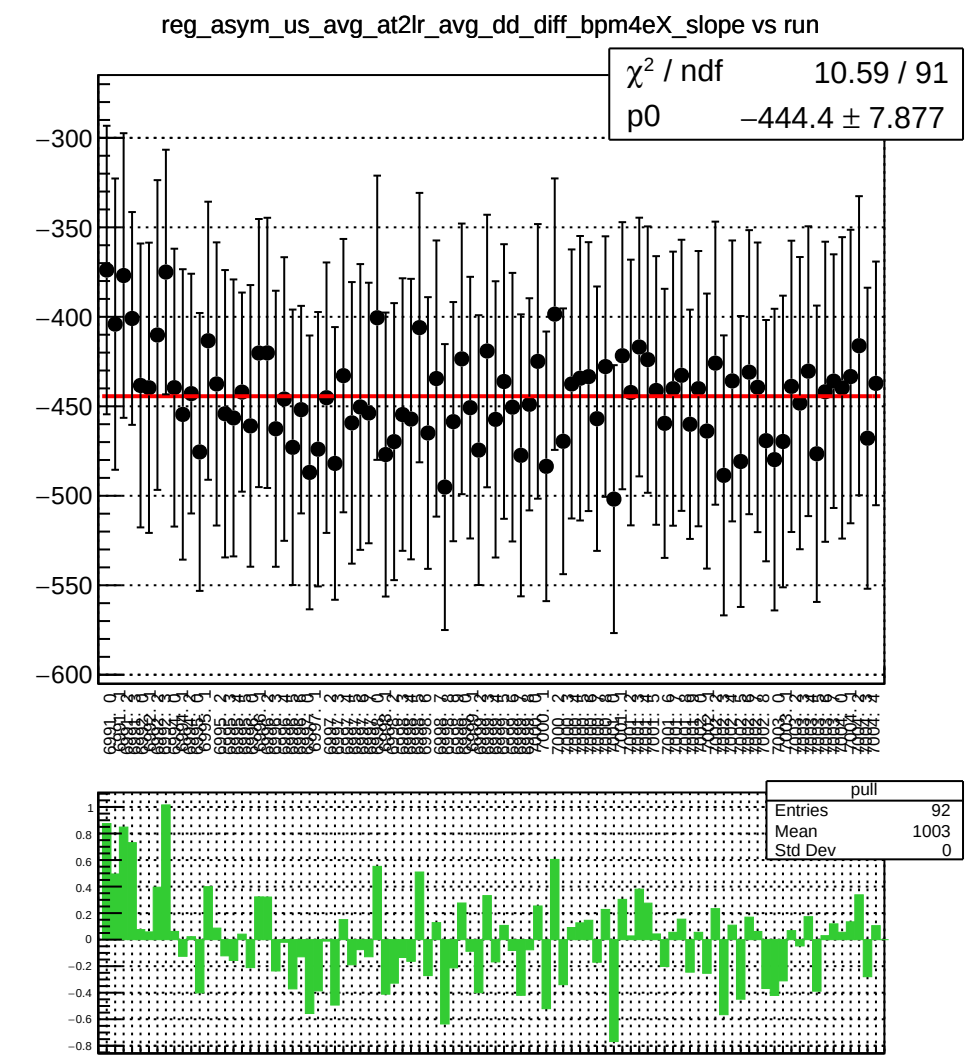

pull1D
Entries 92
Mean 0.001746
Std Dev 0.3549

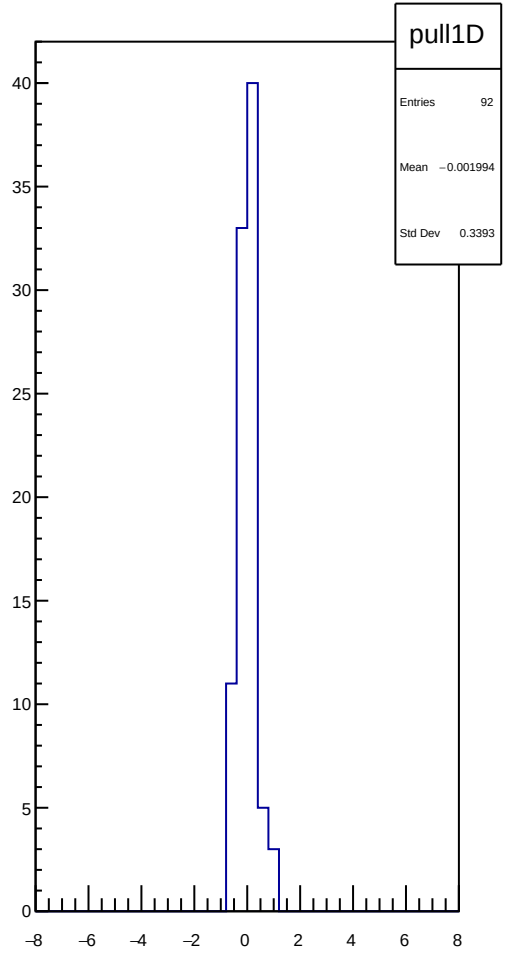

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.532 / 91
p0 181.9 ± 8.241
pull
Entries 92
Mean 844.4
Std Dev 0
pull1D
Entries 92
Mean −0.0006682
Std Dev 0.2665

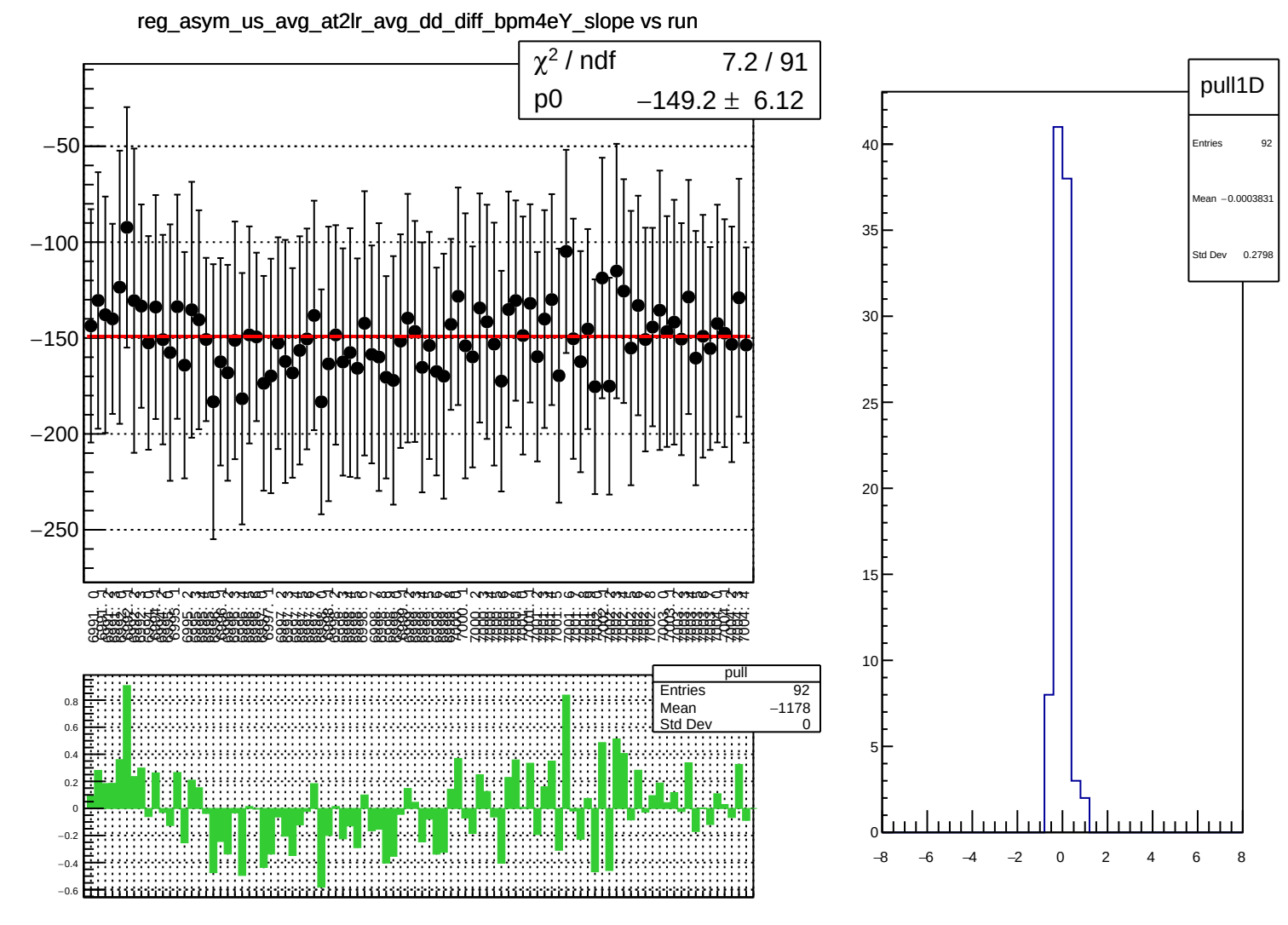

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 51.58 / 91
p0 −306.5 ± 0.3696
−295
−300
−305
−310
−315
pull
Entries 92
Mean 1501
Std Dev 0
pull1D
Entries 92
Mean −0.003977
Std Dev 0.7488
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

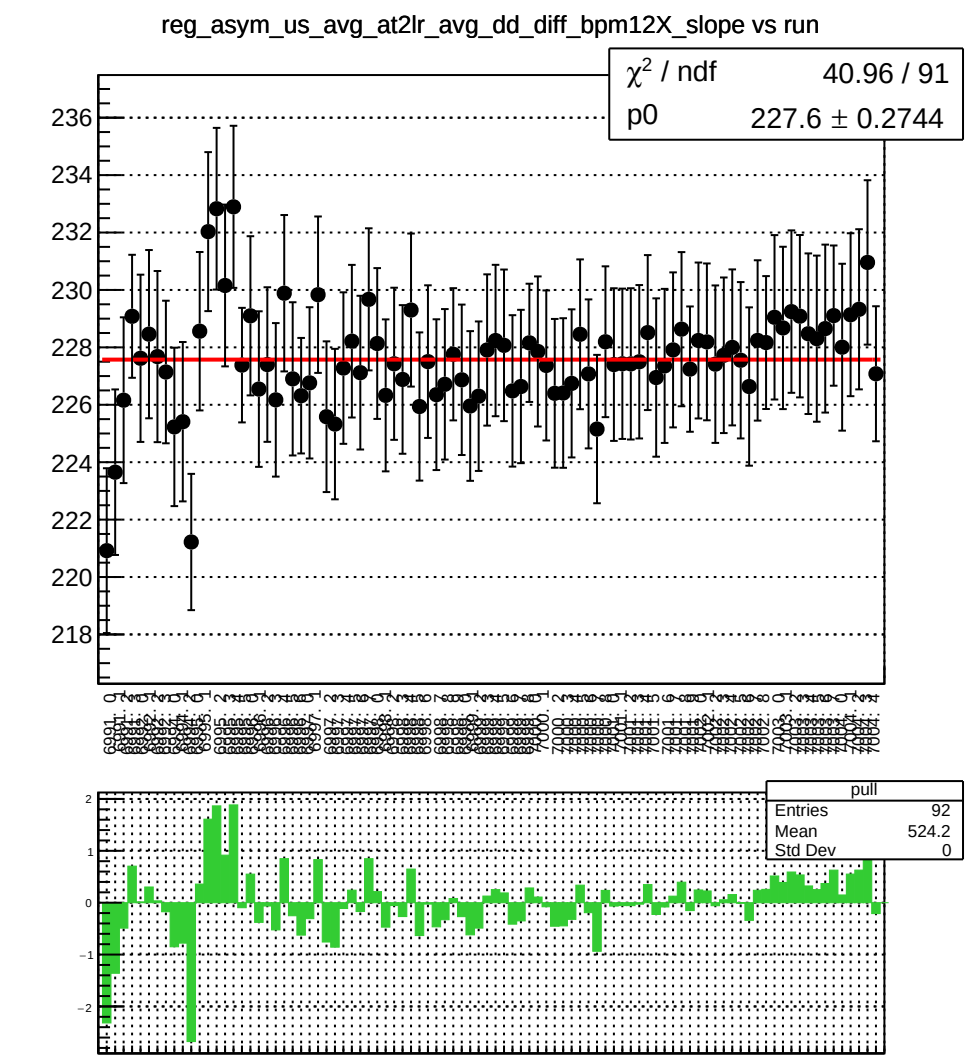

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 9.634 / 91
p0 454.1 ± 8.545
pull
Entries 92
Mean 2261
Std Dev 0
pull1D
Entries 92
Mean 0.0005951
Std Dev 0.3236

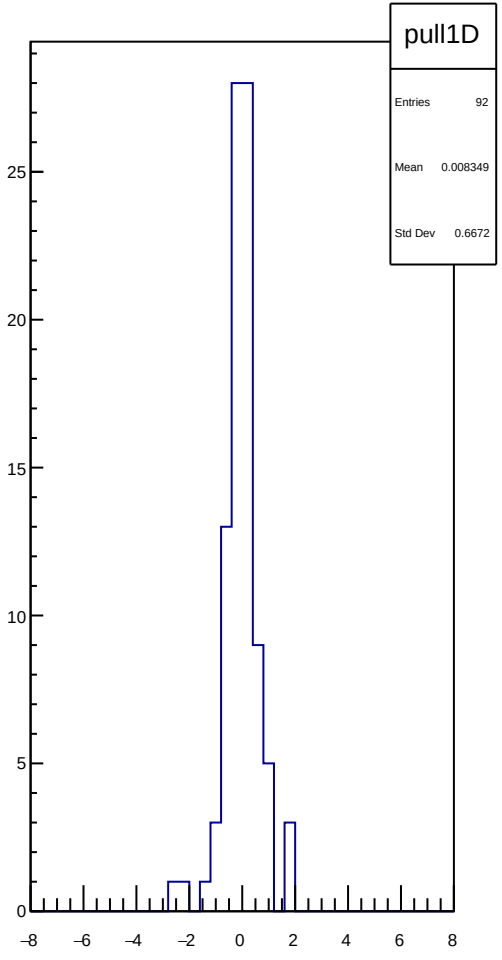

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.542 / 91
p0 23.12 ± 5.82
150
100
50
0
−50
pull
Entries 92
Mean 13.75
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean 0.002727
Std Dev 0.2667
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

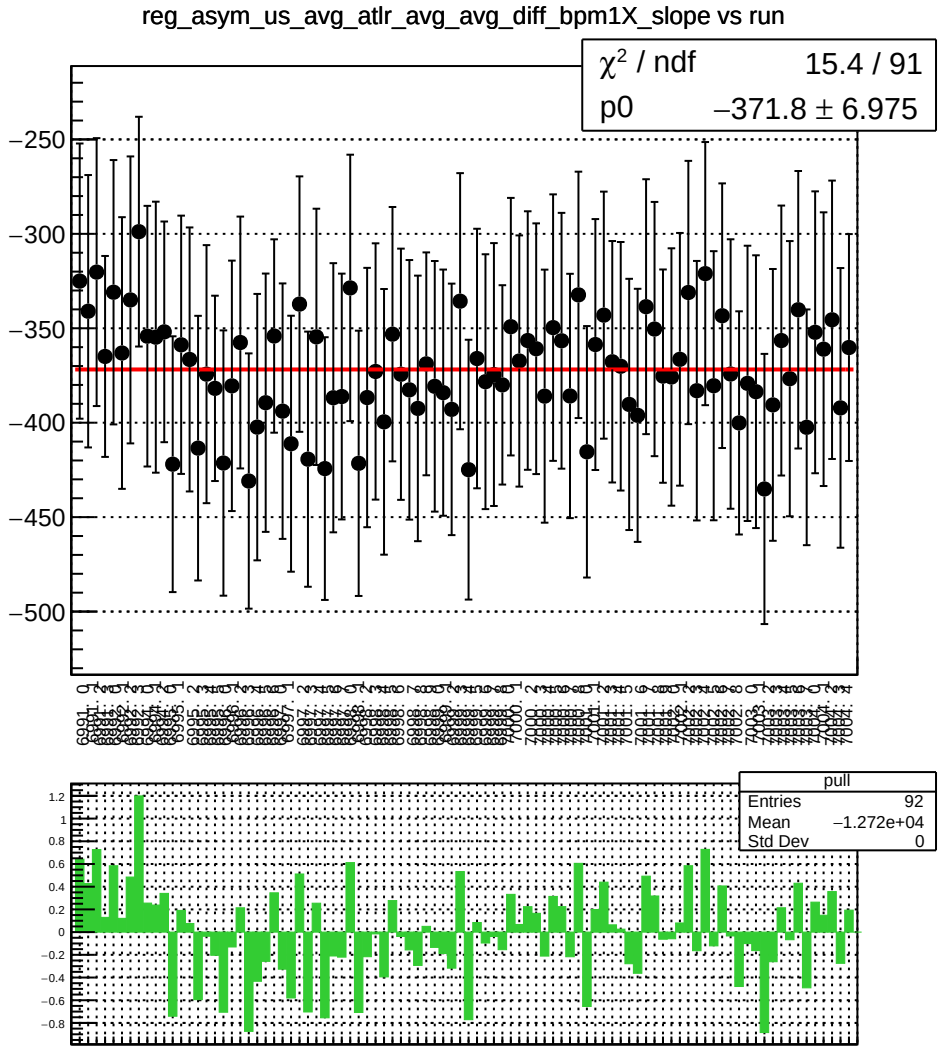

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.59 / 91
p0 −444.4 ± 7.877
pull
Entries 92
Mean 1003
Std Dev 0

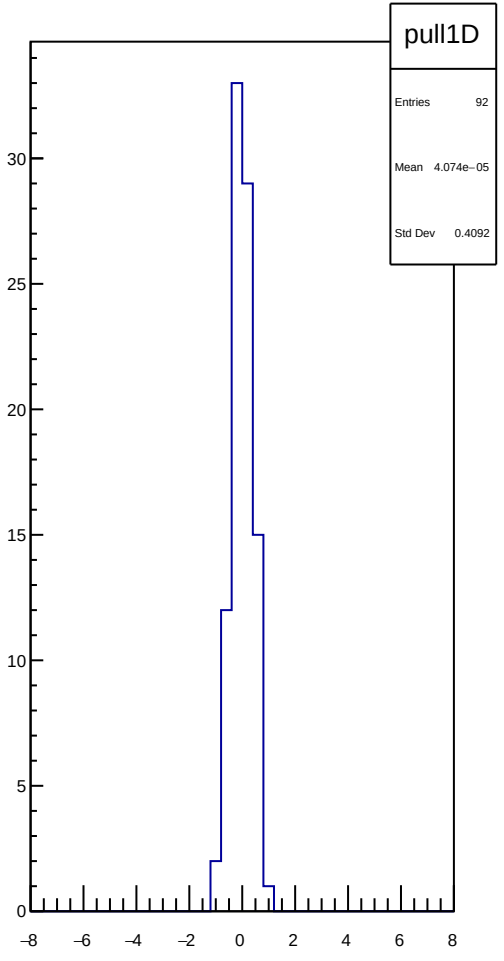

pull1D
Entries 92
Mean −0.001994
Std Dev 0.3393

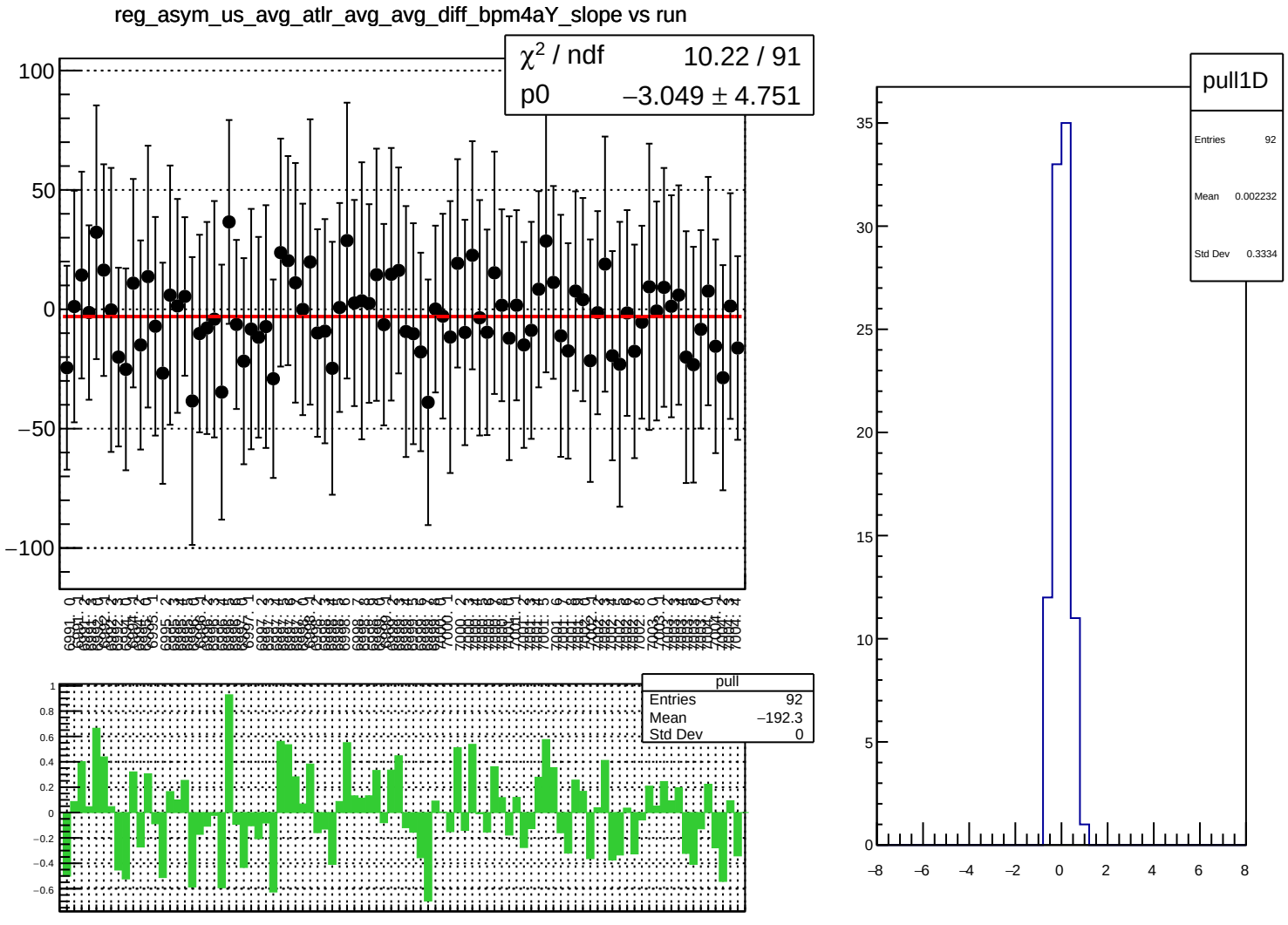

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.2 / 91
p0 −149.2 ± 6.12
−50
−100
−150
−200
−250
pull
Entries 92
Mean −1178
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.0003831
Std Dev 0.2798
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

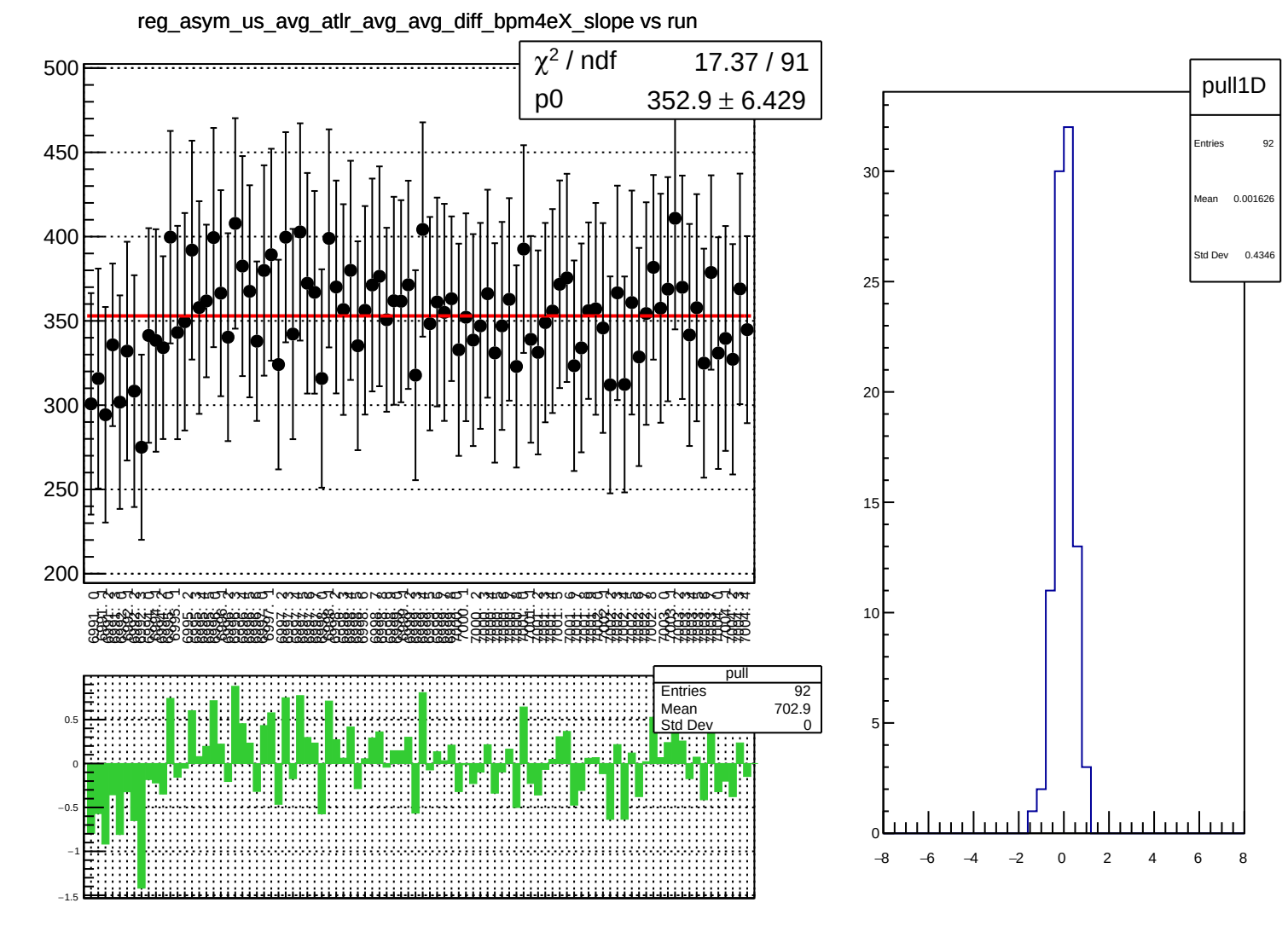

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 40.96 / 91
p0 227.6 ± 0.2744
pull
Entries 92
Mean 524.2
Std Dev 0

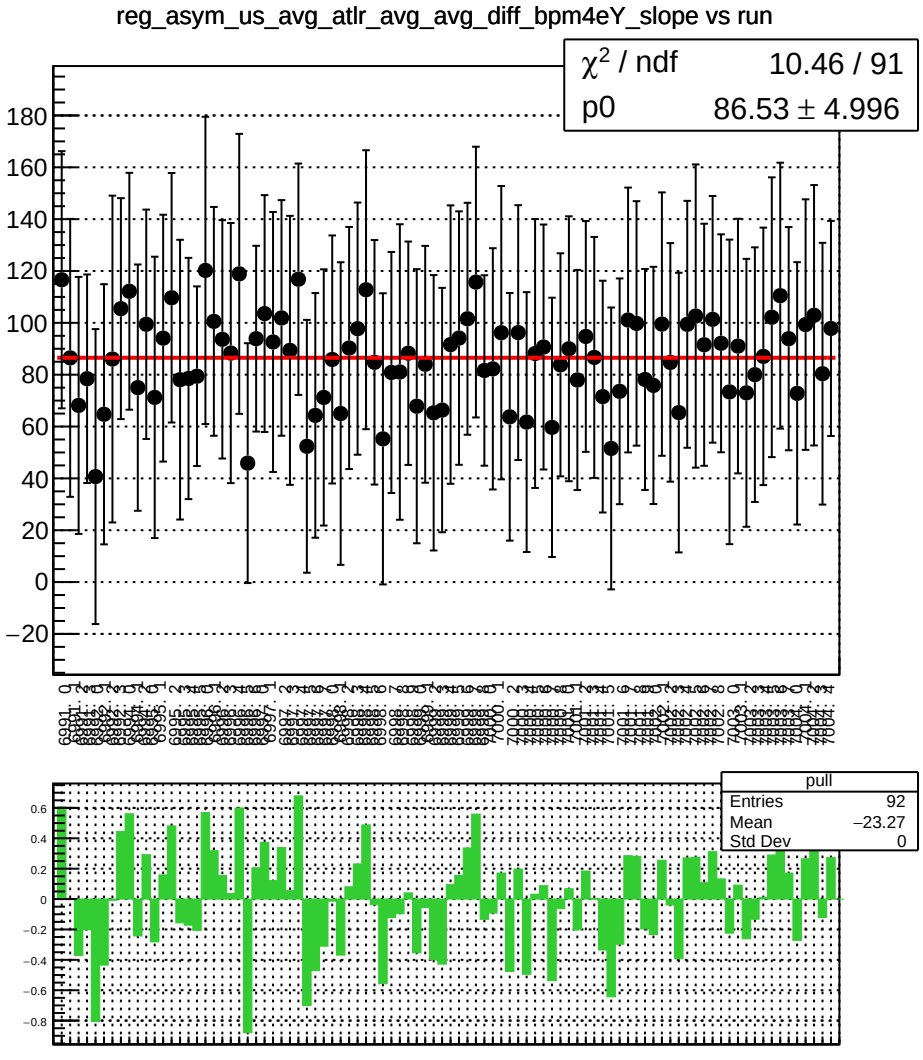

pull1D
Entries 92
Mean 0.008349
Std Dev 0.6672

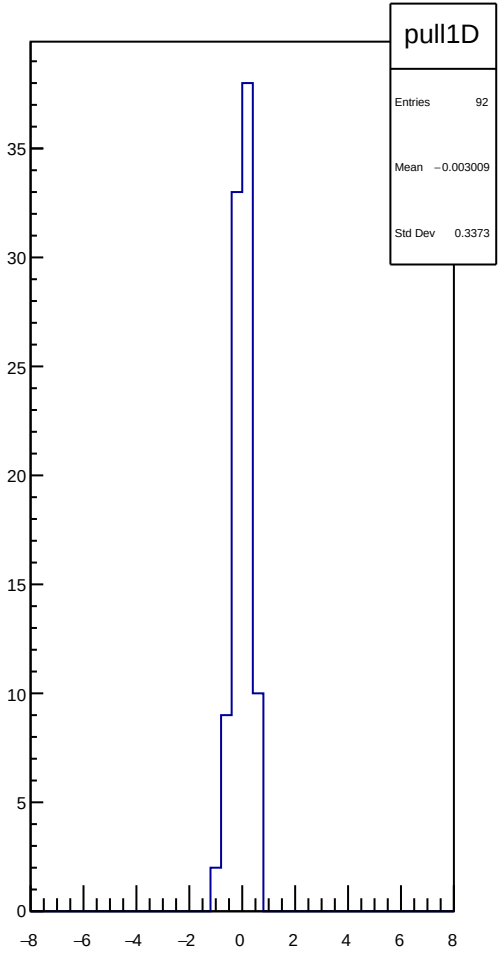

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 15.4 / 91
p0 −371.8 ± 6.975
−250
−300
−350
−400
−450
−500
pull
Entries 92
Mean −1.272e+04
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

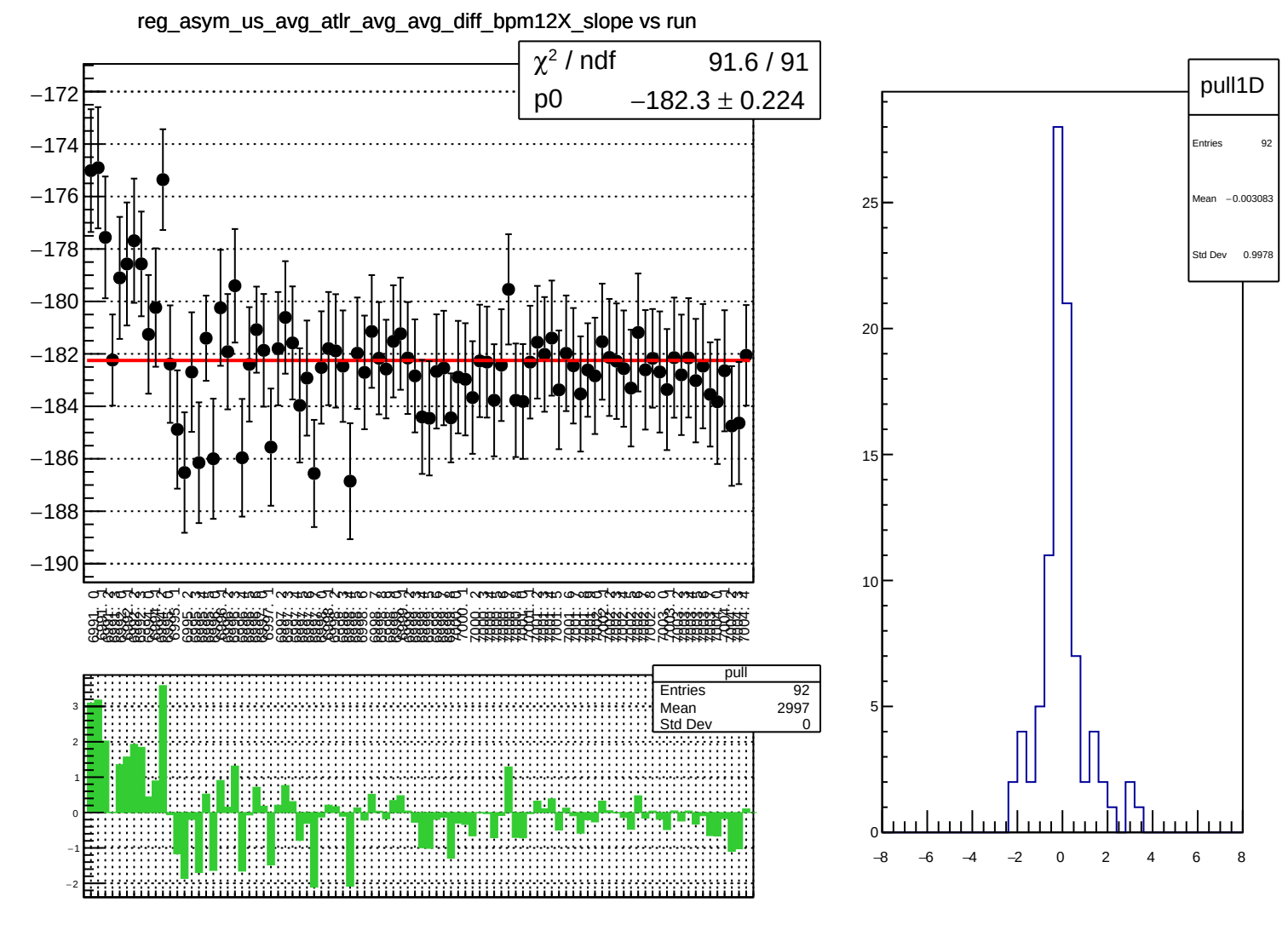

pull1D
Entries 92
Mean 4.074e−05
Std Dev 0.4092
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

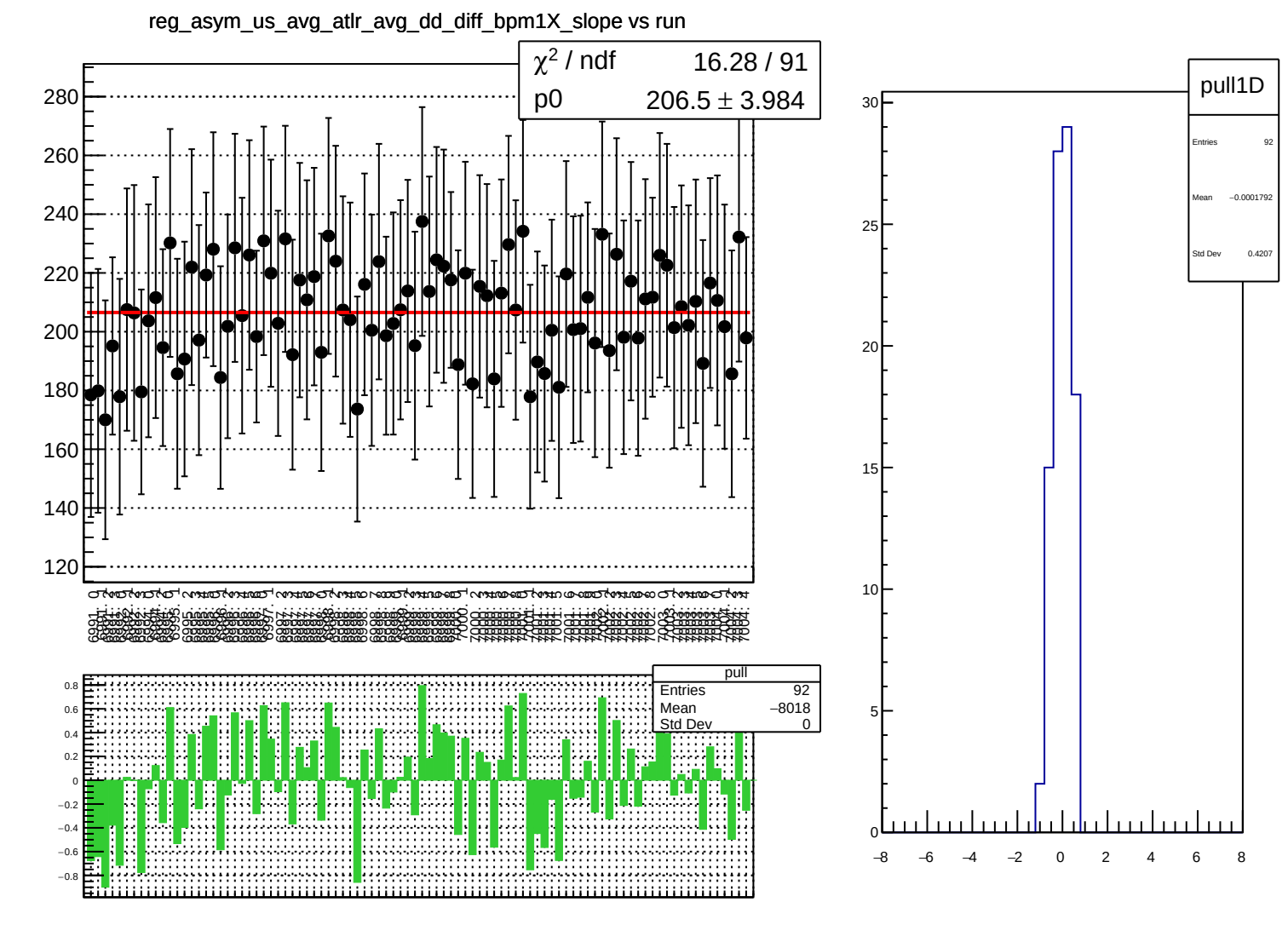

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.22 / 91
p0 −3.049 ± 4.751
100
50
0
−50
−100
pull
Entries 92
Mean −192.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.002232
Std Dev 0.3334
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

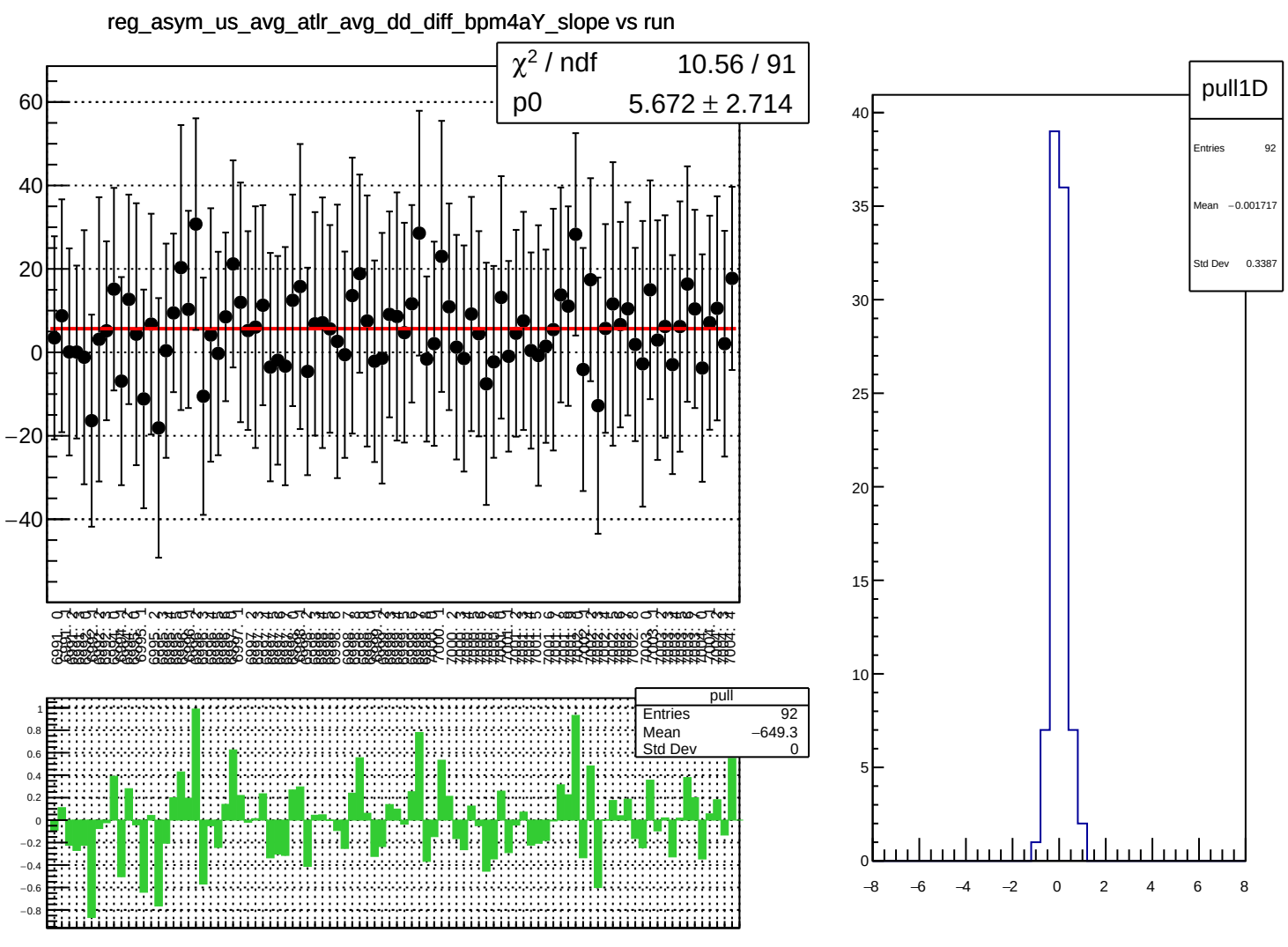

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.37 / 91
p0 352.9 ± 6.429
pull
Entries 92
Mean 702.9
Std Dev 0
pull1D
Entries 92
Mean 0.001626
Std Dev 0.4346

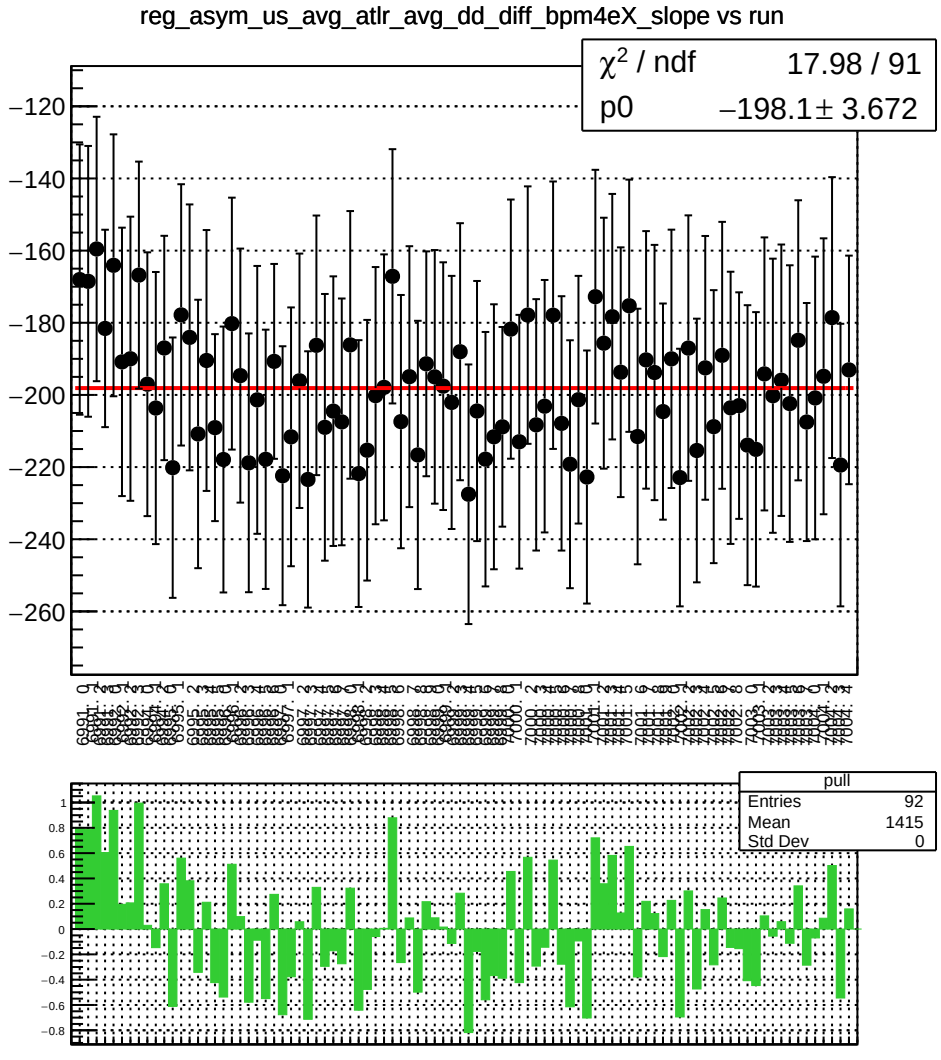

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.46 / 91
p0 86.53 ± 4.996
pull
Entries 92
Mean −23.27
Std Dev 0

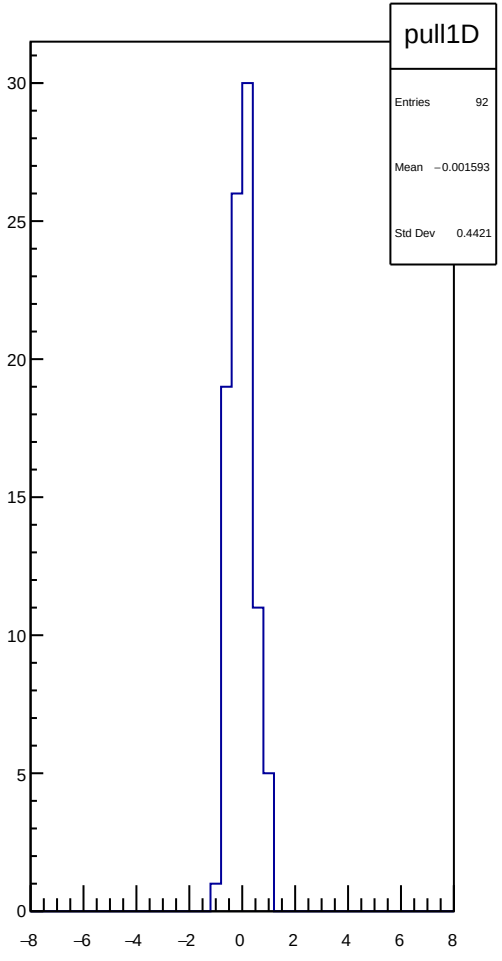

pull1D
Entries 92
Mean −0.003009
Std Dev 0.3373

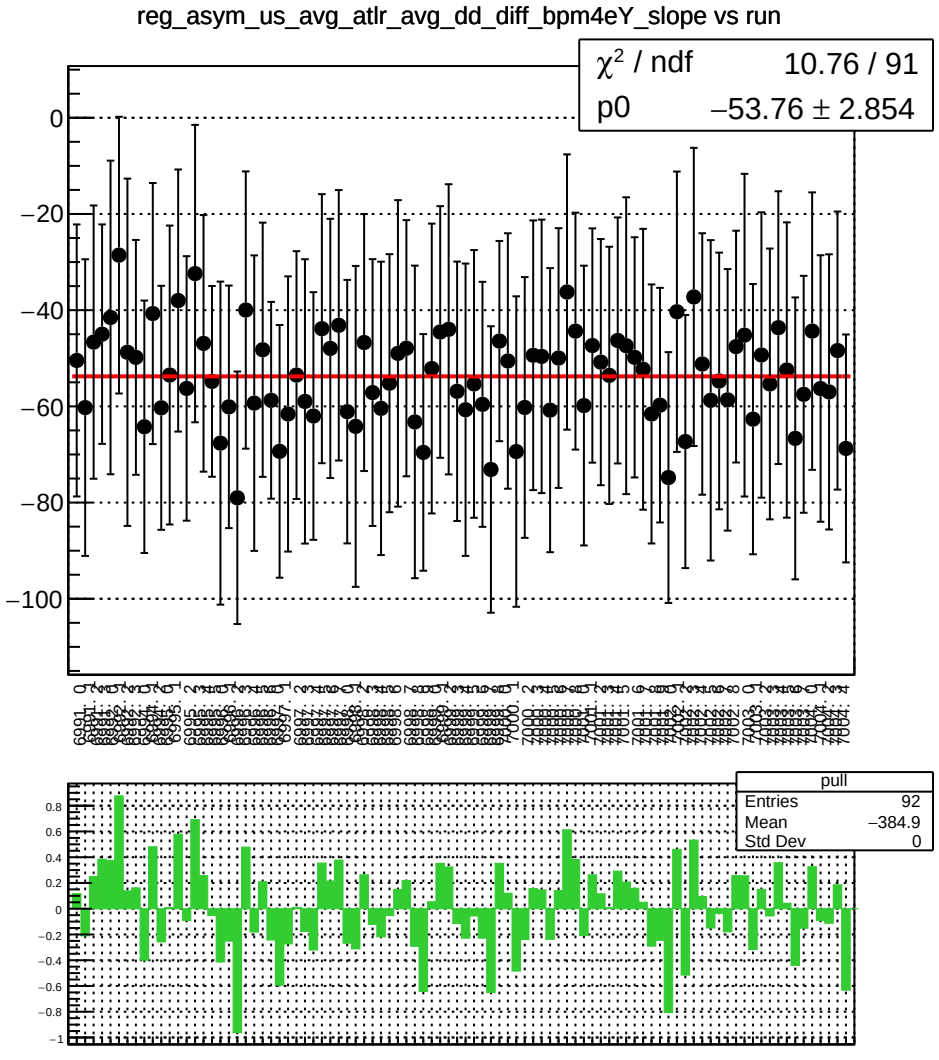

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 91.6 / 91
p0 −182.3 ± 0.224
−172
−174
−176
−178
−180
−182
−184
−186
−188
−190
pull
Entries 92
Mean 2997
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003083
Std Dev 0.9978
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

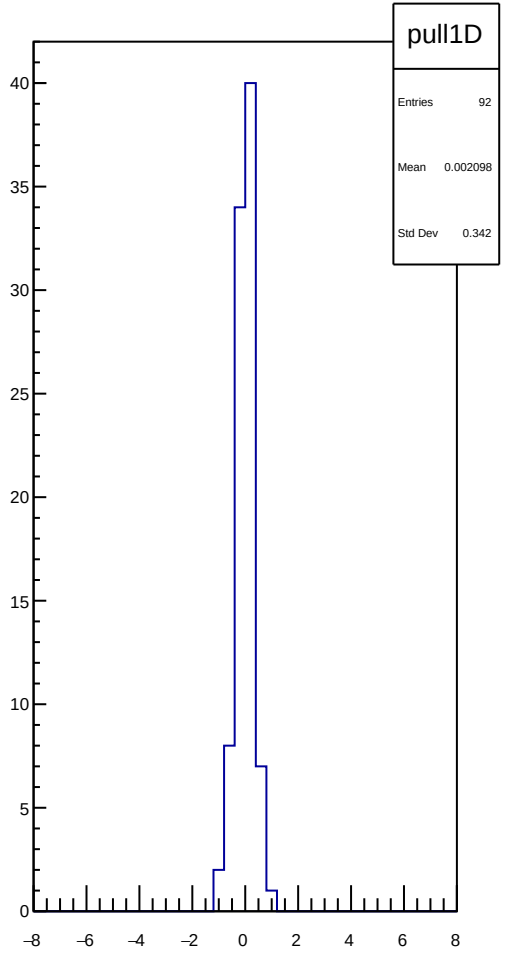

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 16.28 / 91
p0 206.5 ± 3.984
pull
Entries 92
Mean −8018
Std Dev 0
pull1D
Entries 92
Mean −0.0001792
Std Dev 0.4207

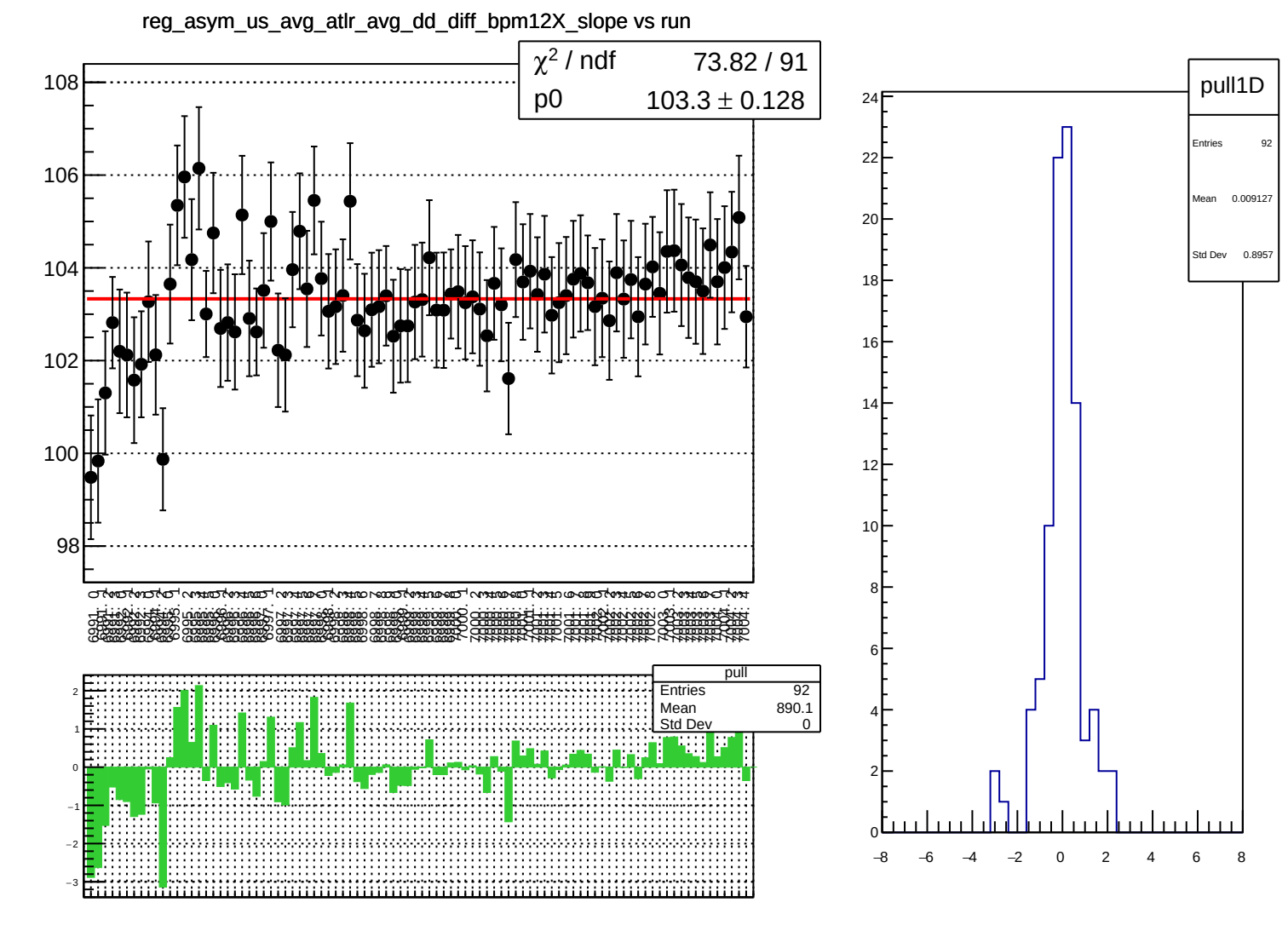

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.56 / 91
p0 5.672 ± 2.714
pull
Entries 92
Mean −649.3
Std Dev 0
pull1D
Entries 92
Mean −0.001717
Std Dev 0.3387

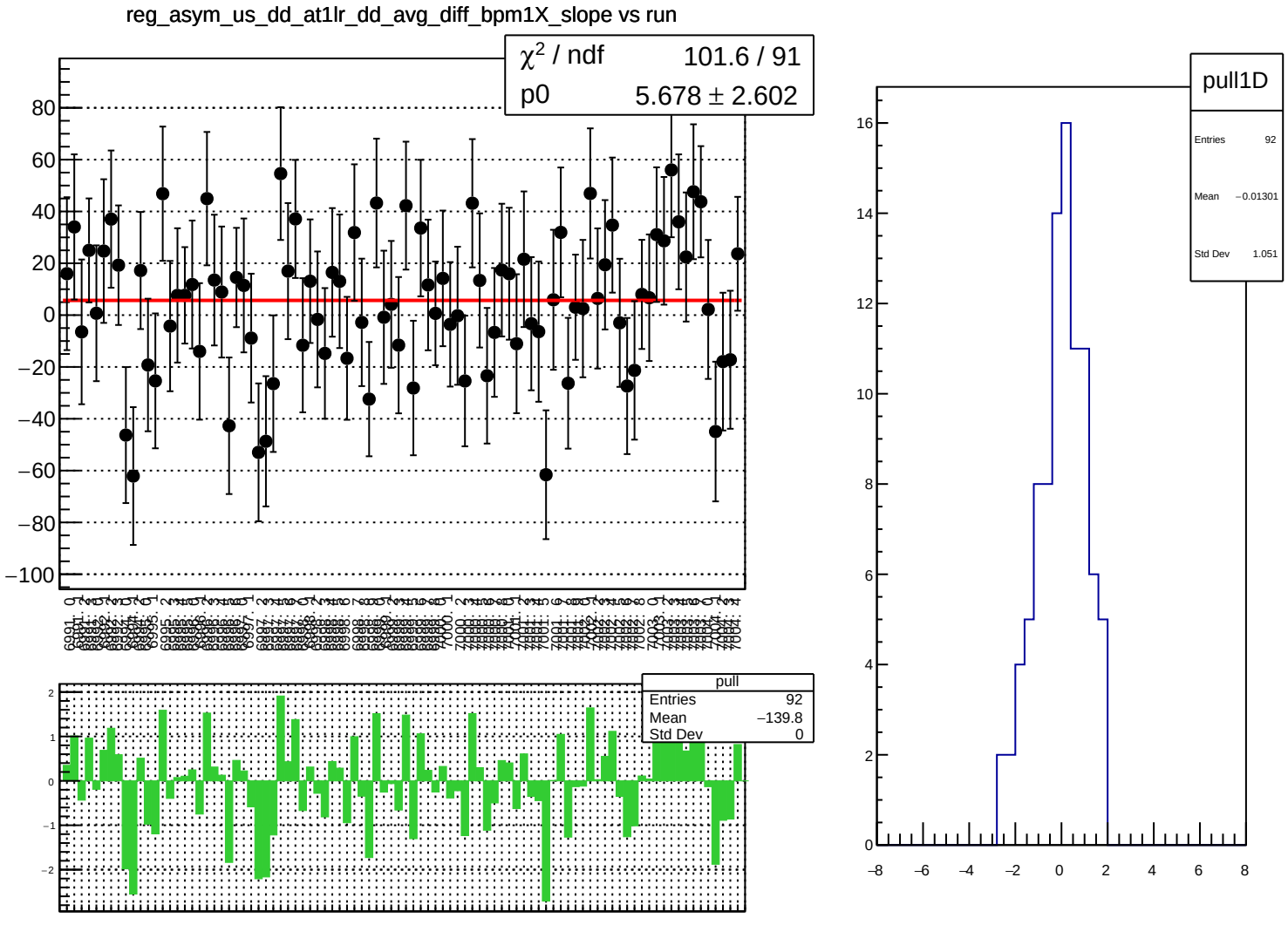

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.98 / 91
p0 −198.1± 3.672
−120
−140
−160
−180
−200
−220
−240
−260
pull
Entries 92
Mean 1415
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

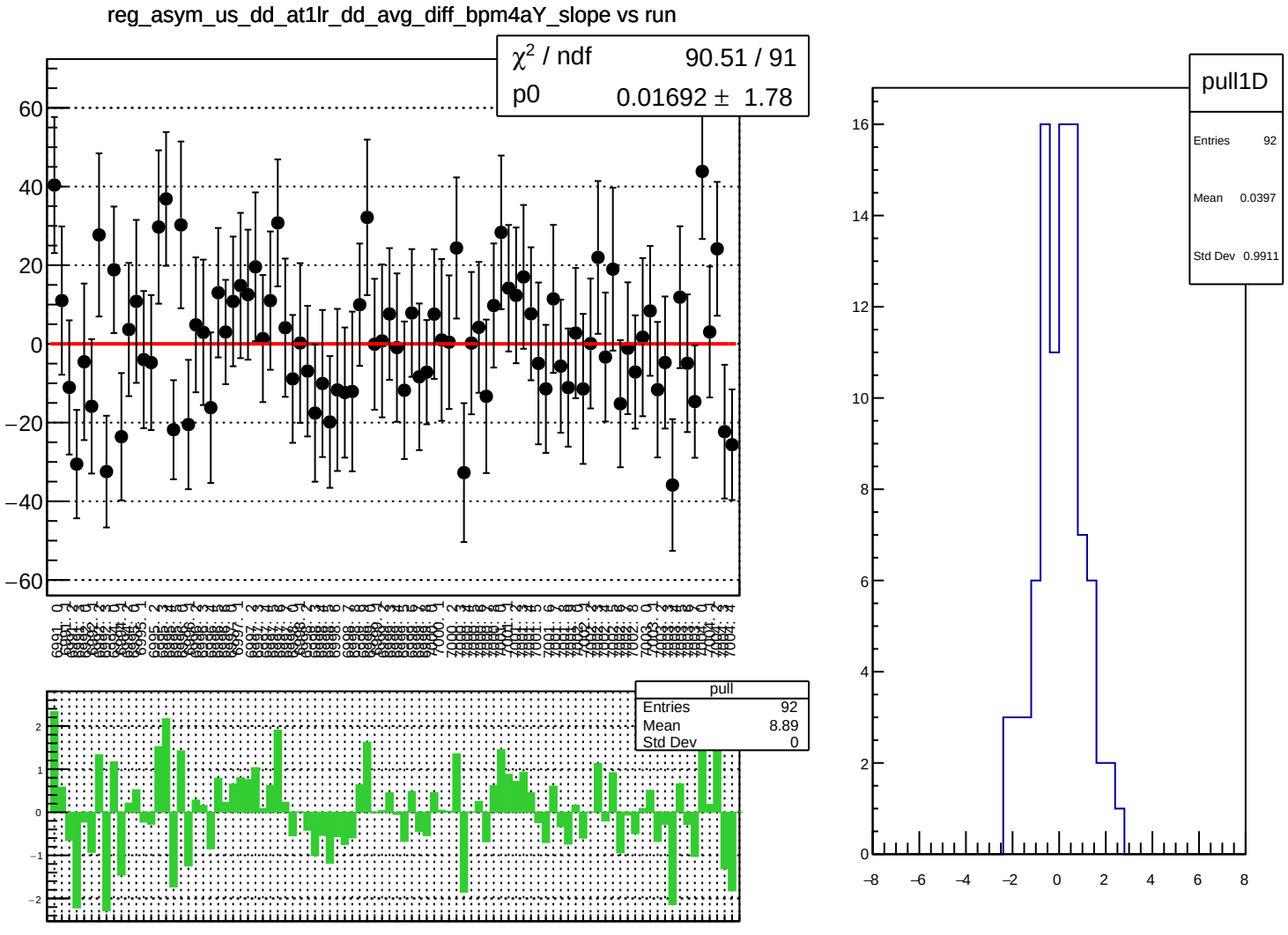

pull1D
Entries 92
Mean −0.001593
Std Dev 0.4421
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

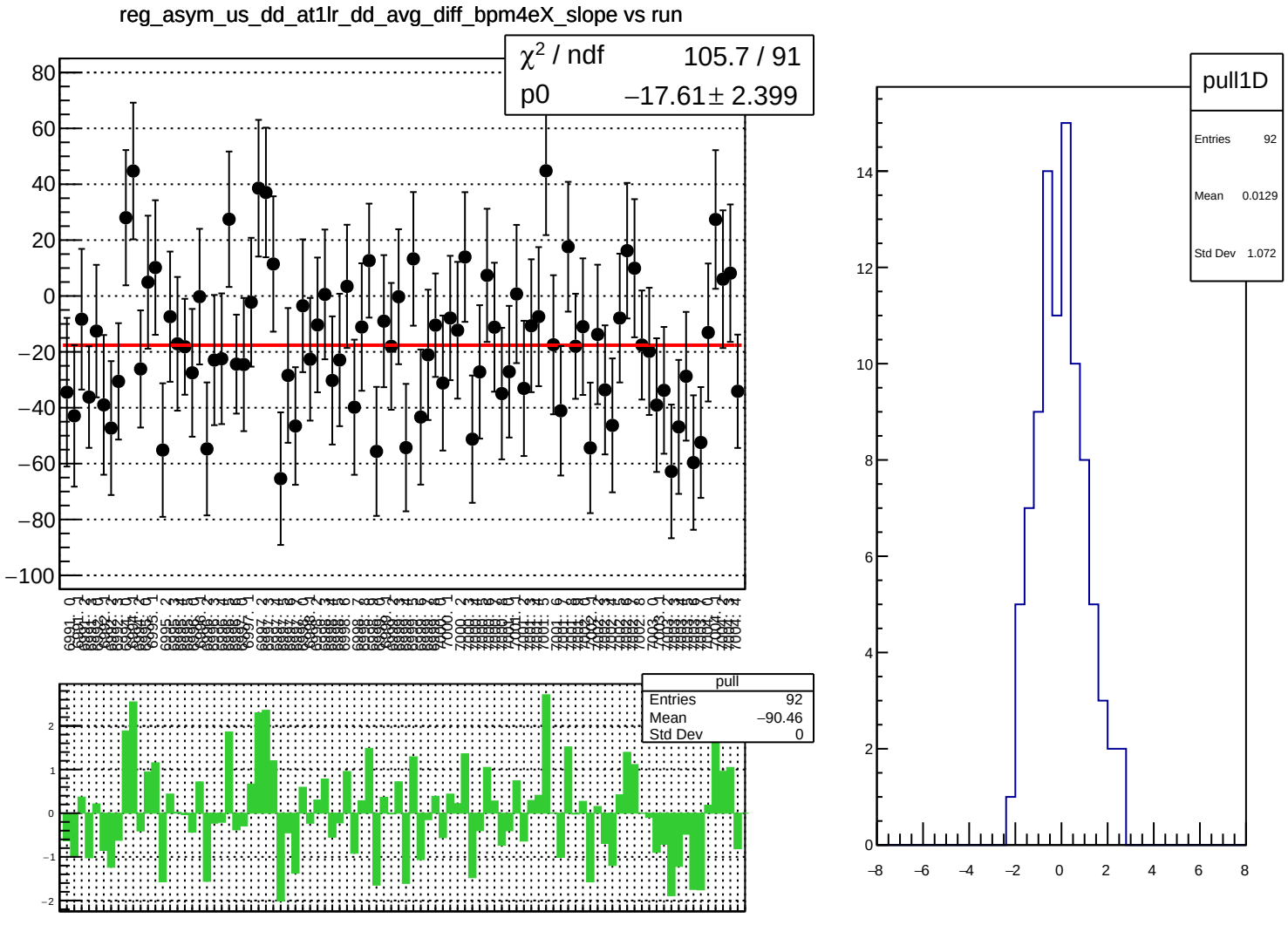

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.76 / 91
p0 −53.76 ± 2.854
0
−20
−40
−60
−80
−100
pull
Entries 92
Mean −384.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

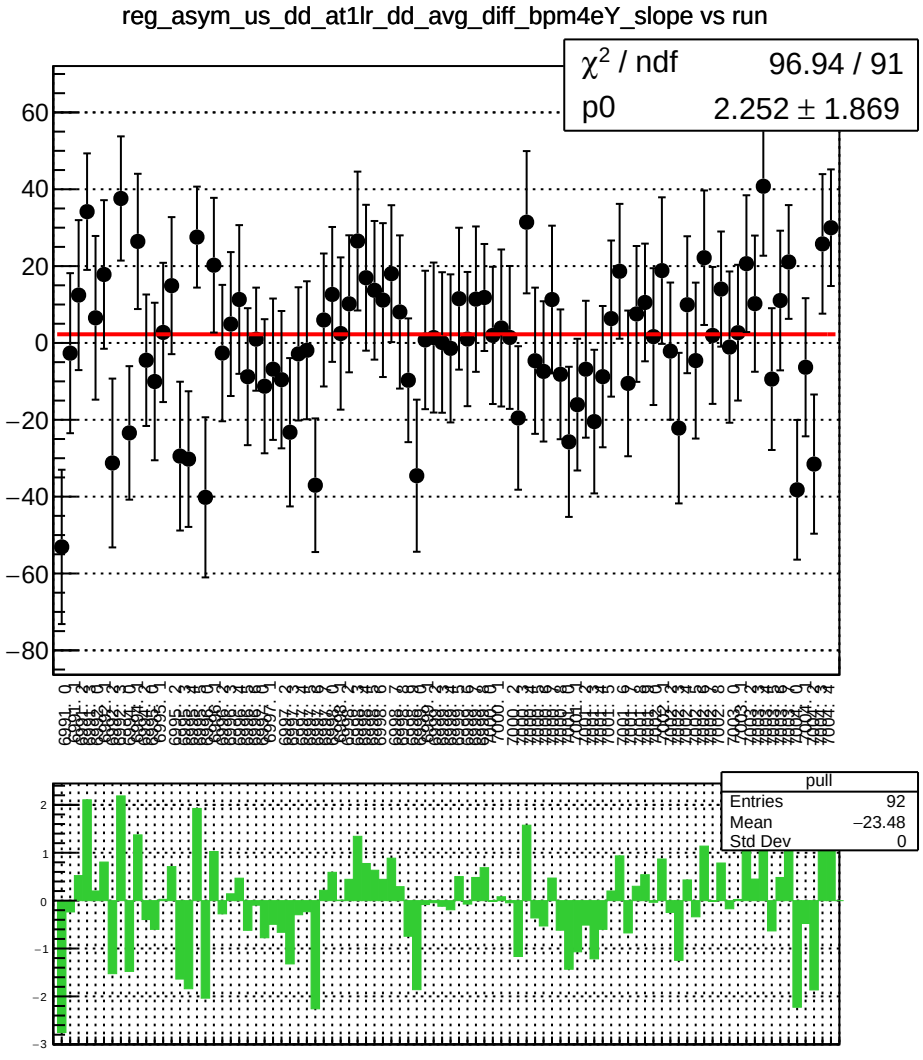

pull1D
Entries 92
Mean 0.002098
Std Dev 0.342
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

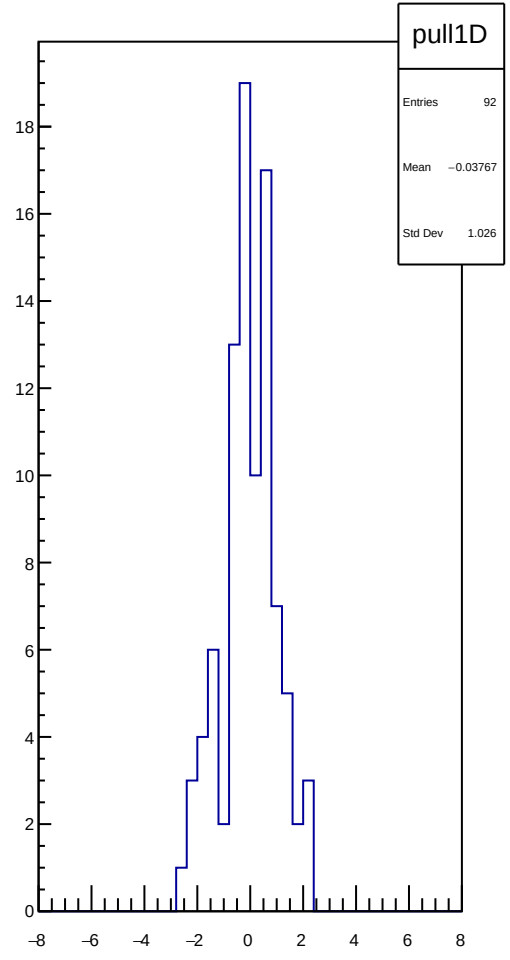

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 73.82 / 91
p0 103.3 ± 0.128
108
106
104
102
100
98
pull
Entries 92
Mean 890.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.009127
Std Dev 0.8957
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

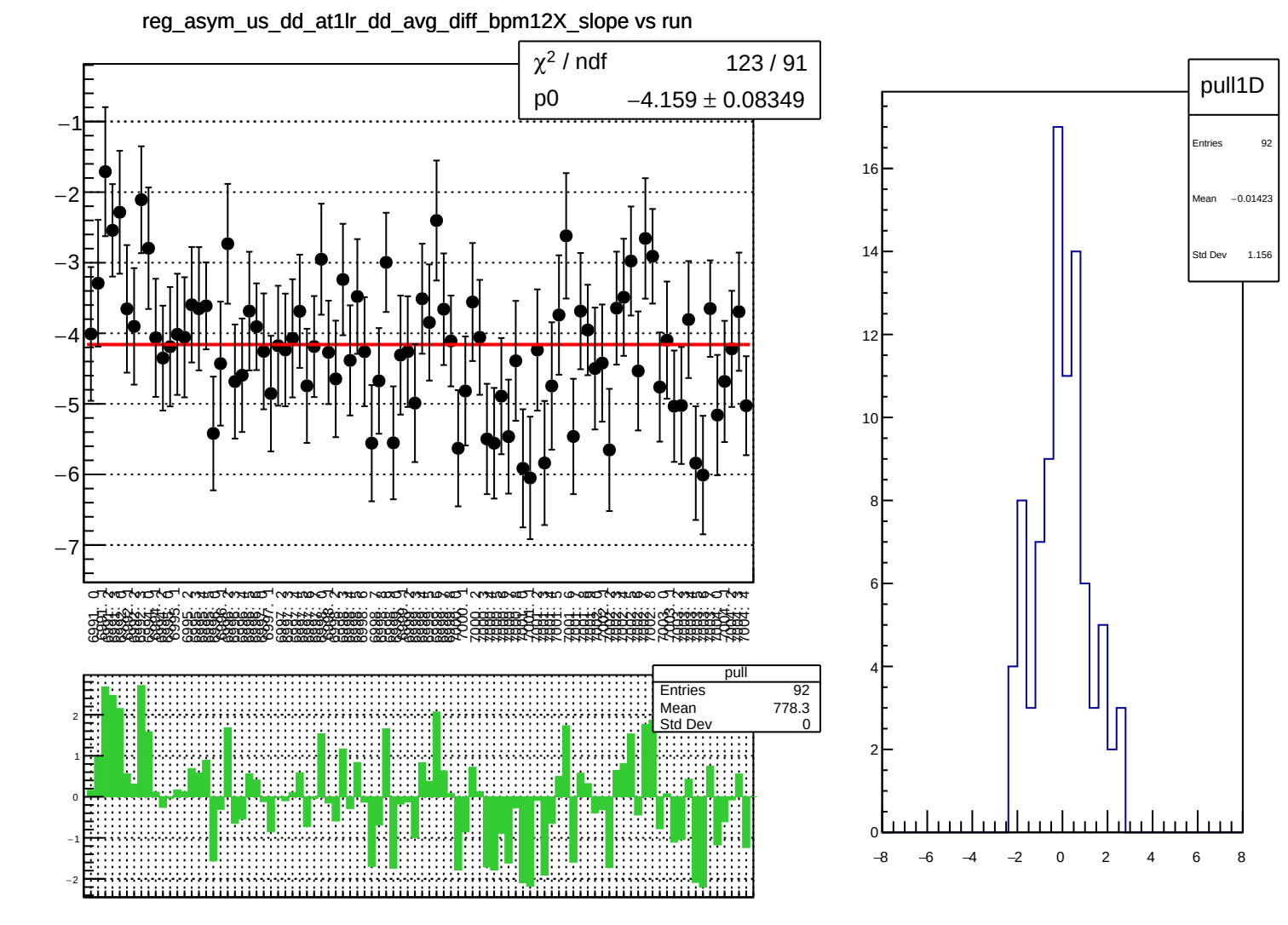

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 101.6 / 91
p0 5.678 ± 2.602
pull
Entries 92
Mean −139.8
Std Dev 0
pull1D
Entries 92
Mean −0.01301
Std Dev 1.051

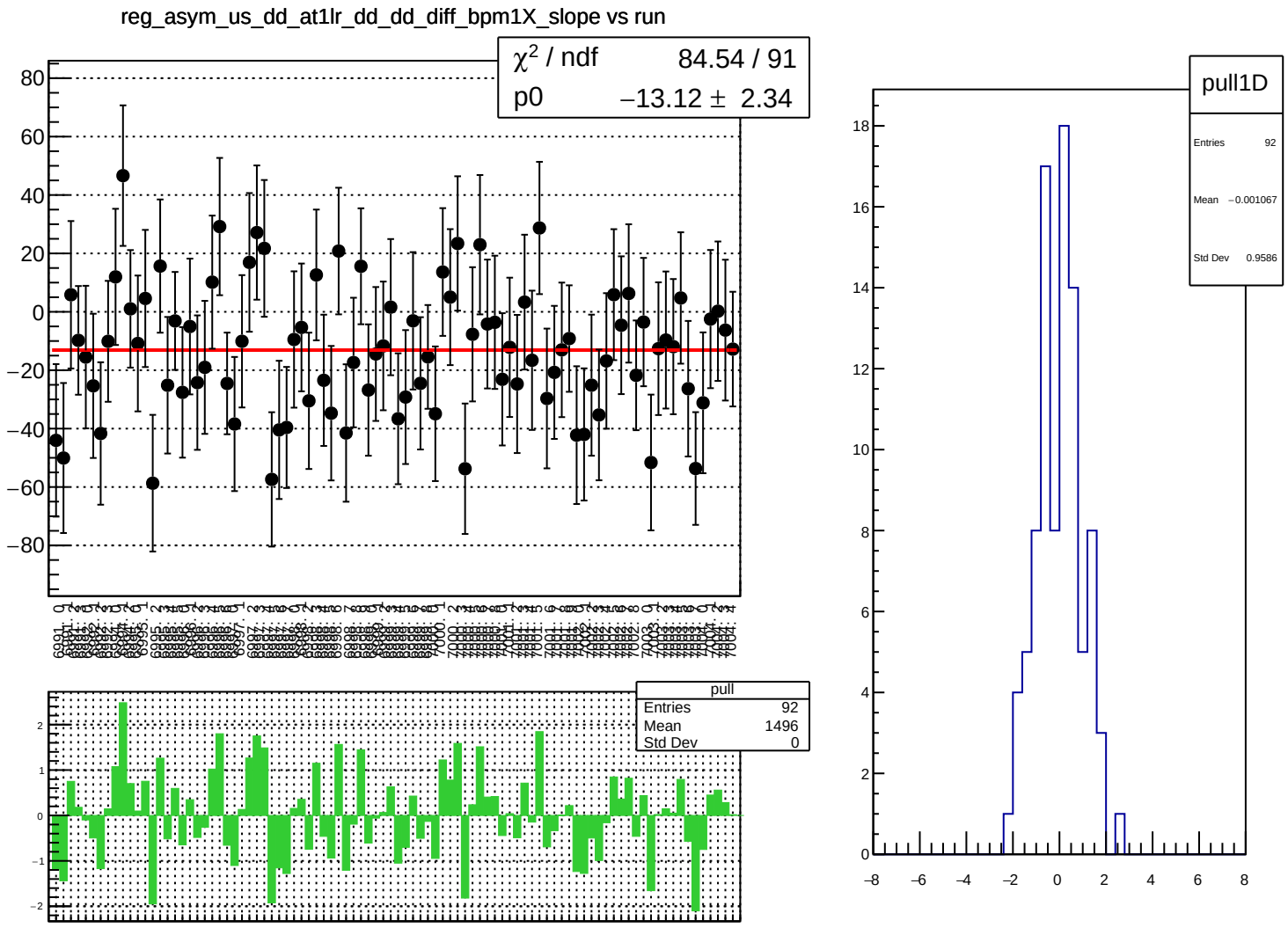

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.51 / 91
p0 0.01692 ± 1.78
pull
Entries 92
Mean 8.89
Std Dev 0
pull1D
Entries 92
Mean 0.0397
Std Dev 0.9911

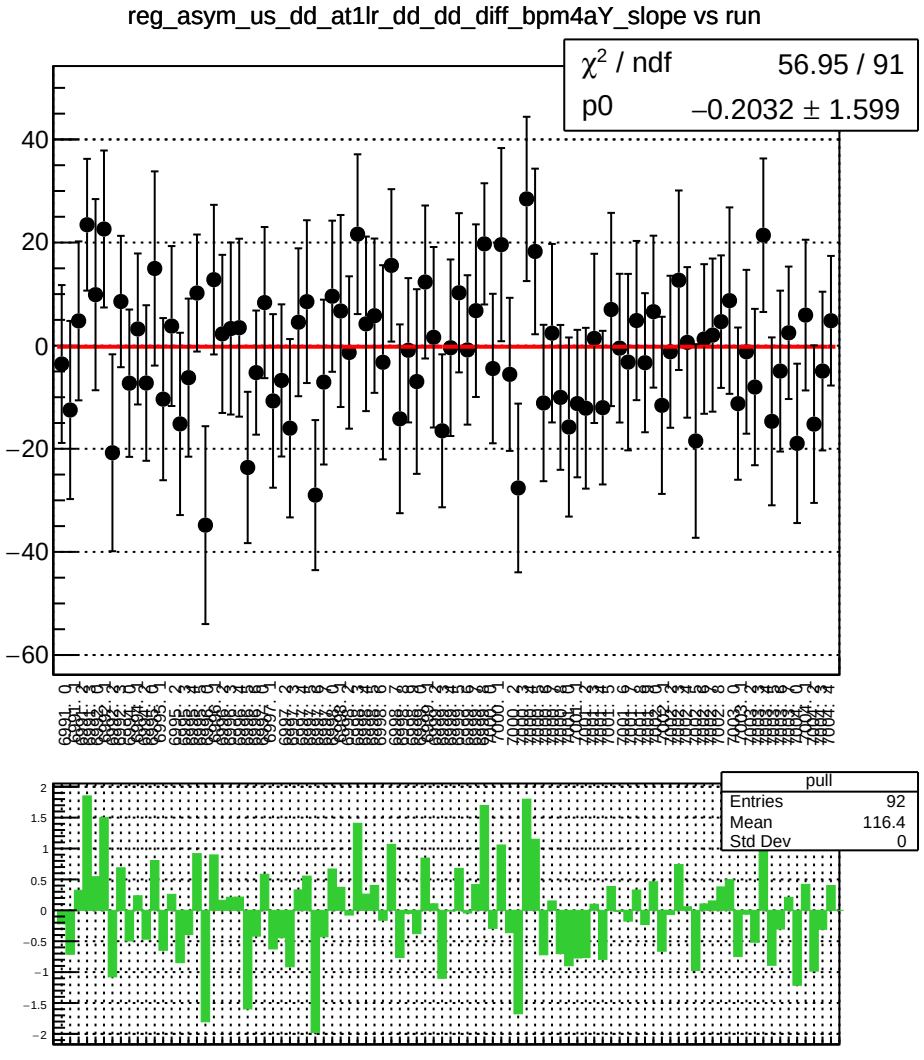

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.7 / 91
p0 −17.61 ± 2.399
pull
Entries 92
Mean −90.46
Std Dev 0
pull1D
Entries 92
Mean 0.0129
Std Dev 1.072

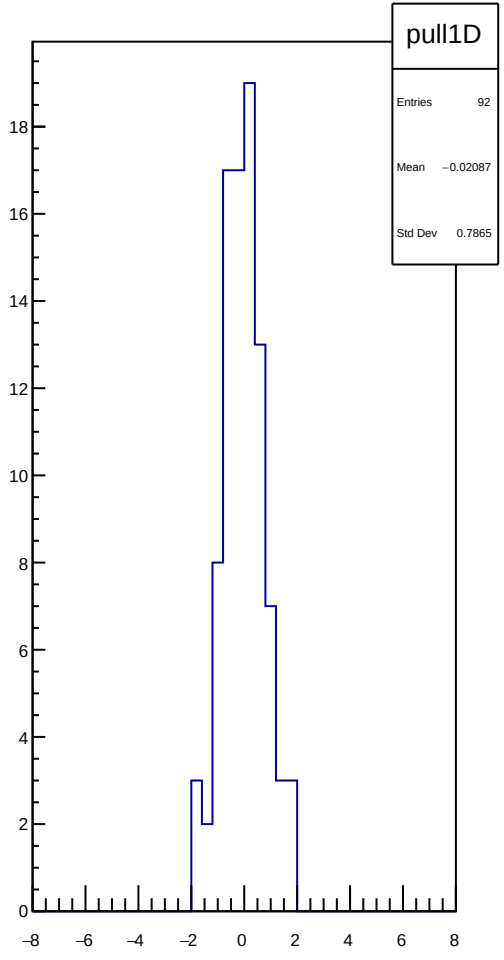

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.94 / 91
p0 2.252 ± 1.869
pull
Entries 92
Mean −23.48
Std Dev 0

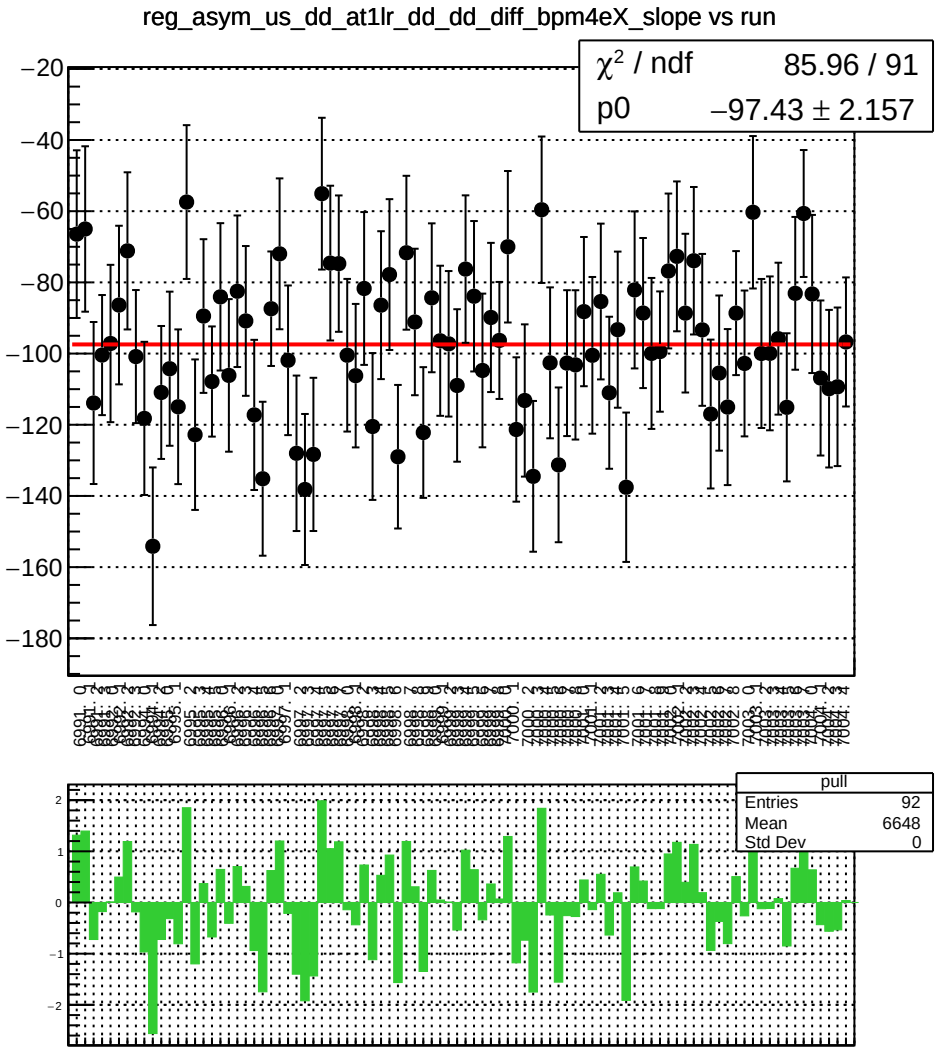

pull1D
Entries 92
Mean −0.03767
Std Dev 1.026

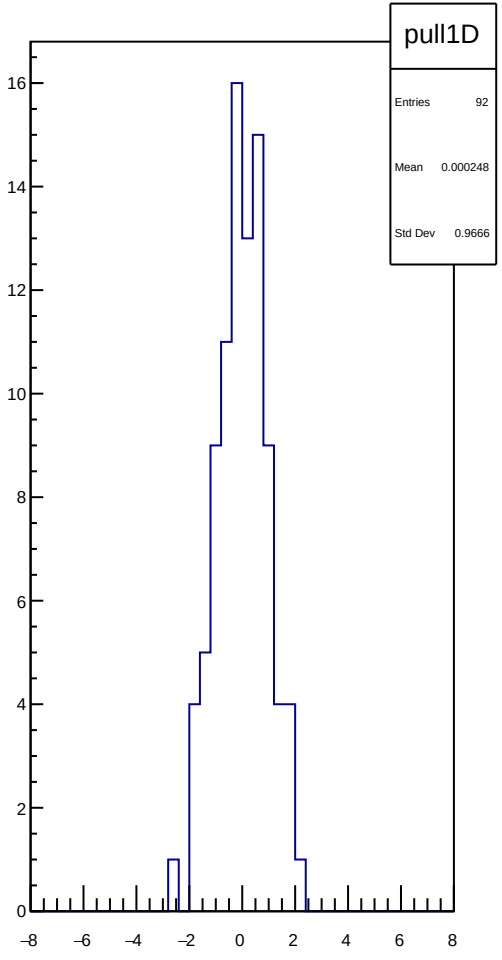

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 123 / 91
p0 −4.159 ± 0.08349
pull
Entries 92
Mean 778.3
Std Dev 0
pull1D
Entries 92
Mean −0.01423
Std Dev 1.156

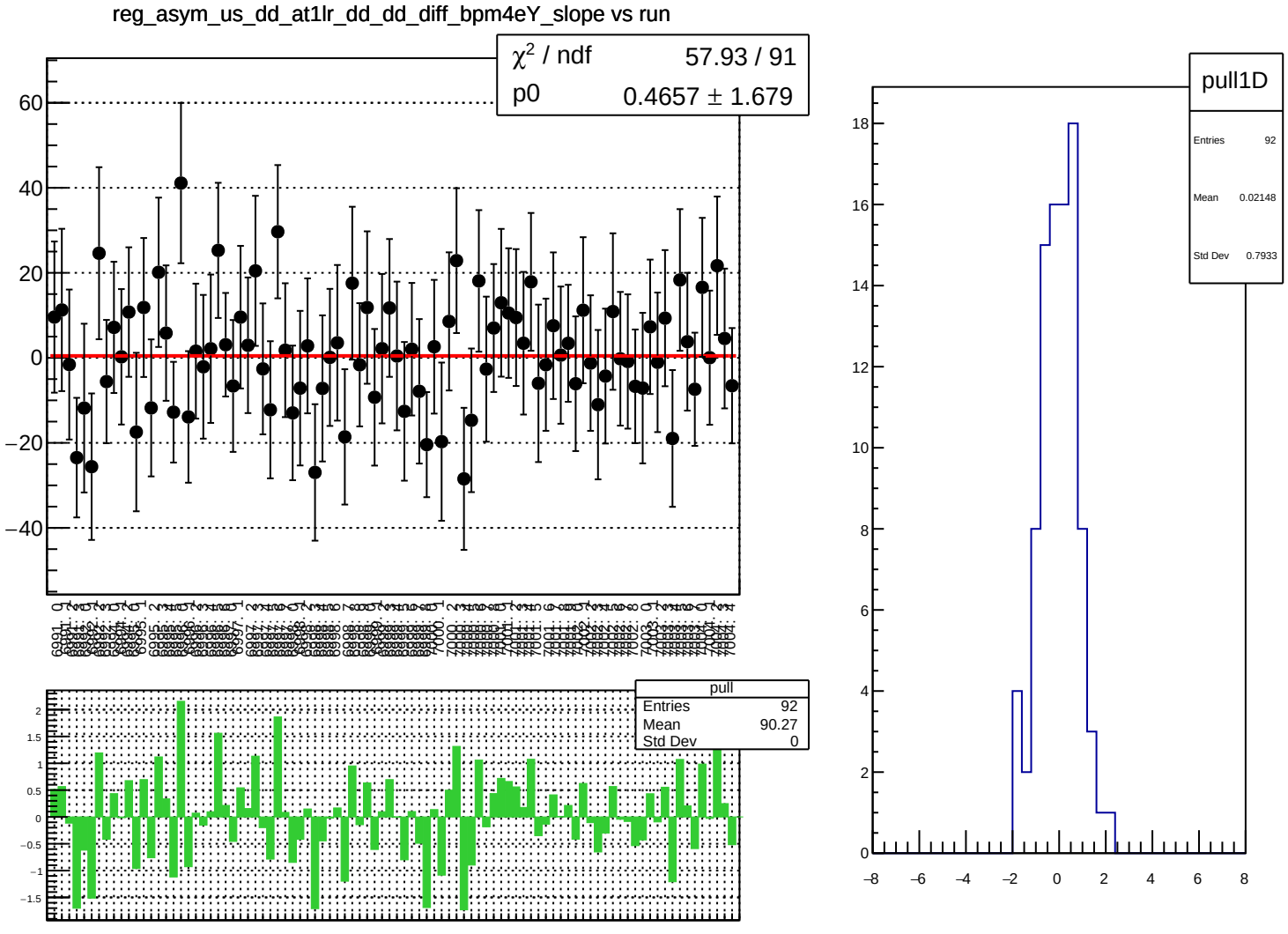

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 84.54 / 91
p0 −13.12 ± 2.34
pull
Entries 92
Mean 1496
Std Dev 0
pull1D
Entries 92
Mean −0.001067
Std Dev 0.9586

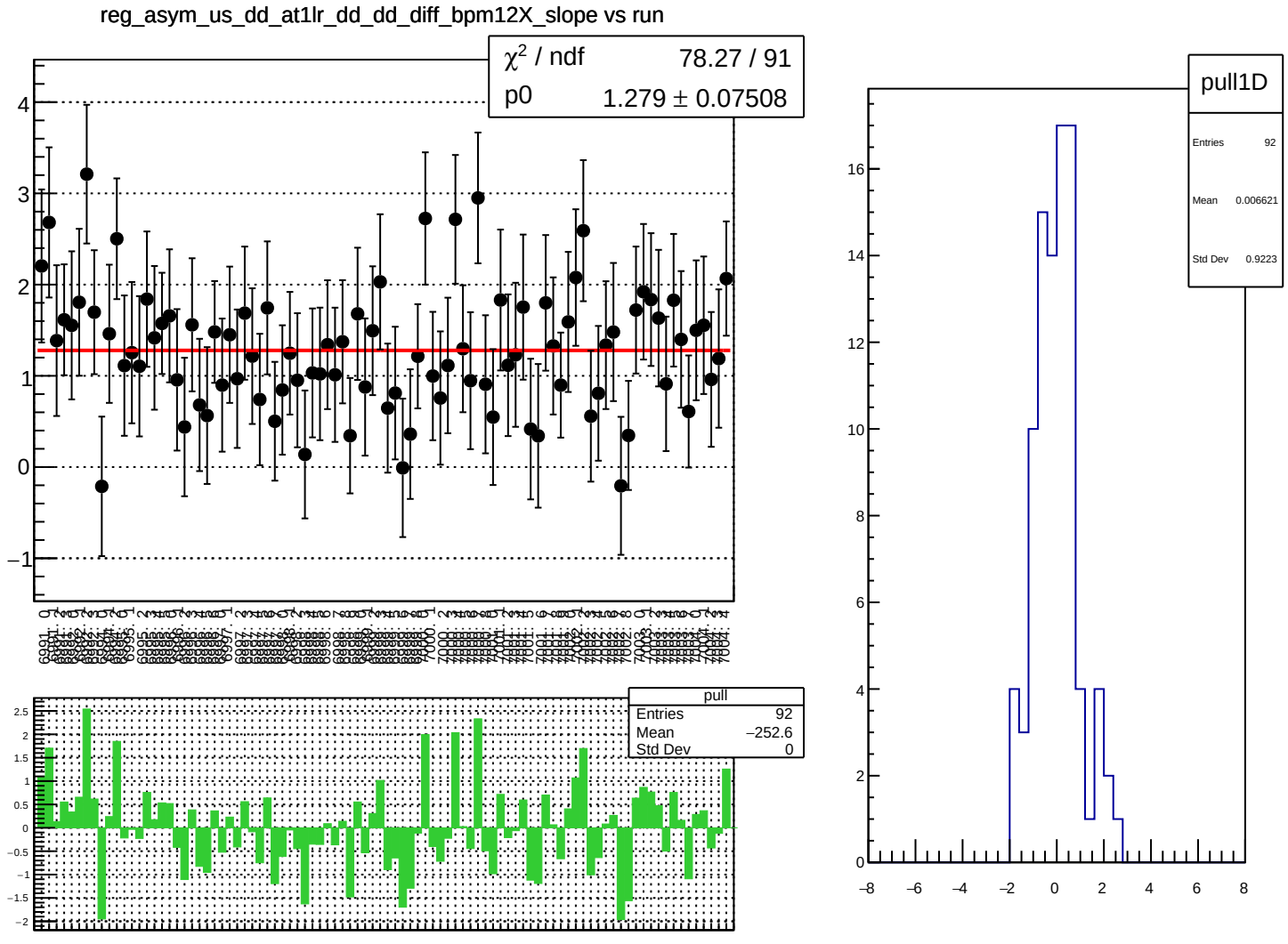

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.95 / 91
p0 −0.2032 ± 1.599
pull
Entries 92
Mean 116.4
Std Dev 0

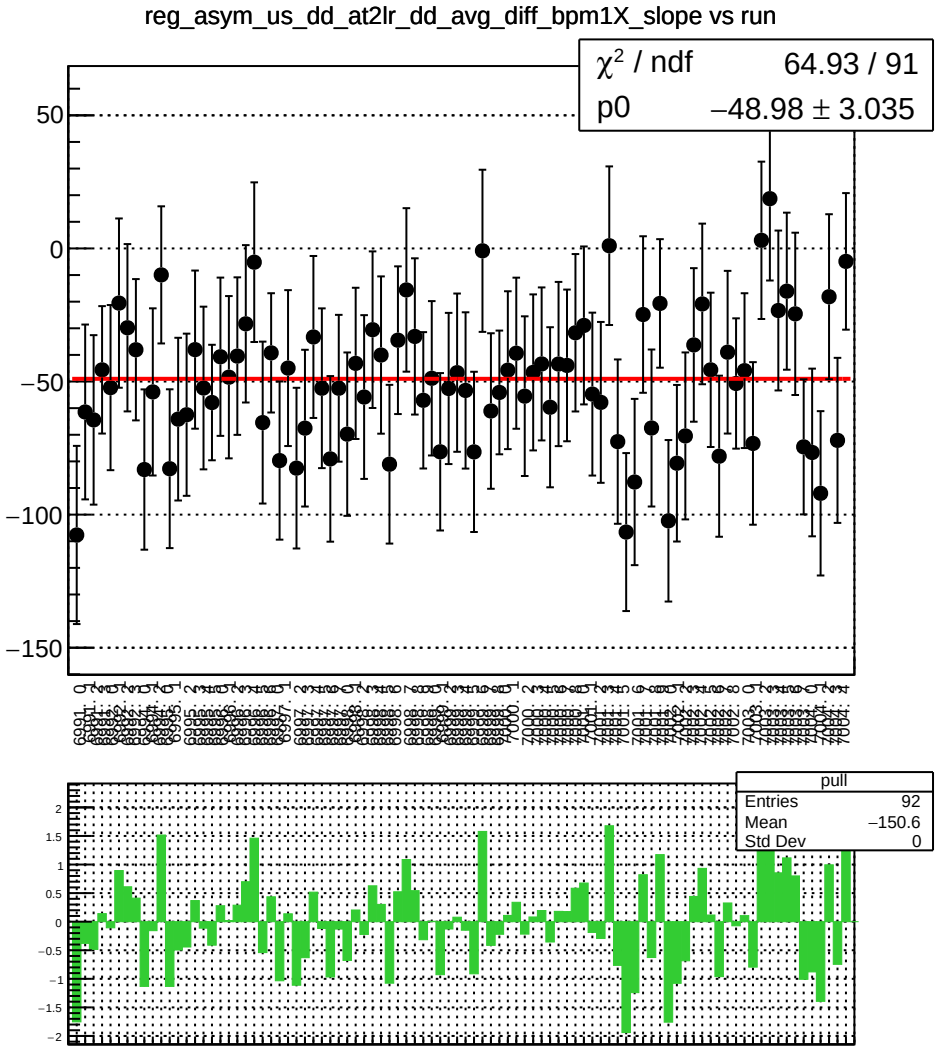

pull1D
Entries 92
Mean −0.02087
Std Dev 0.7865

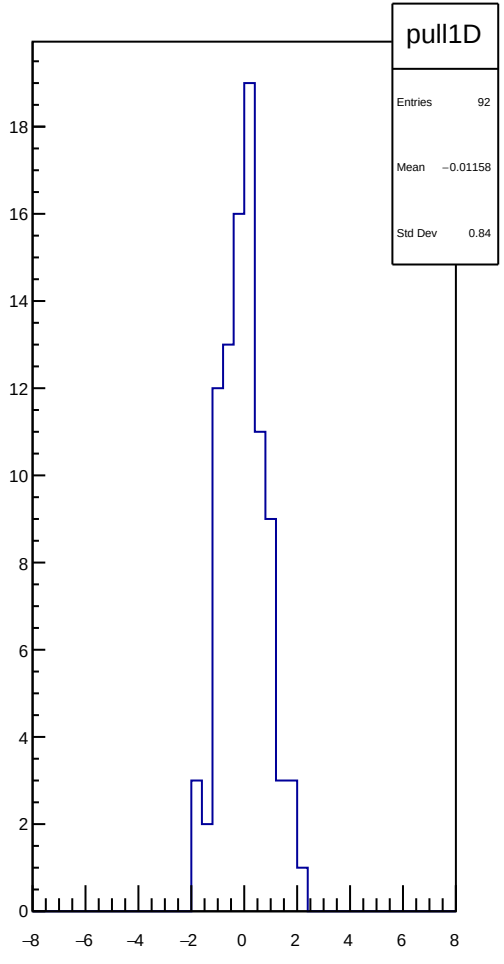

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.96 / 91
p0 −97.43 ± 2.157
pull
Entries 92
Mean 6648
Std Dev 0

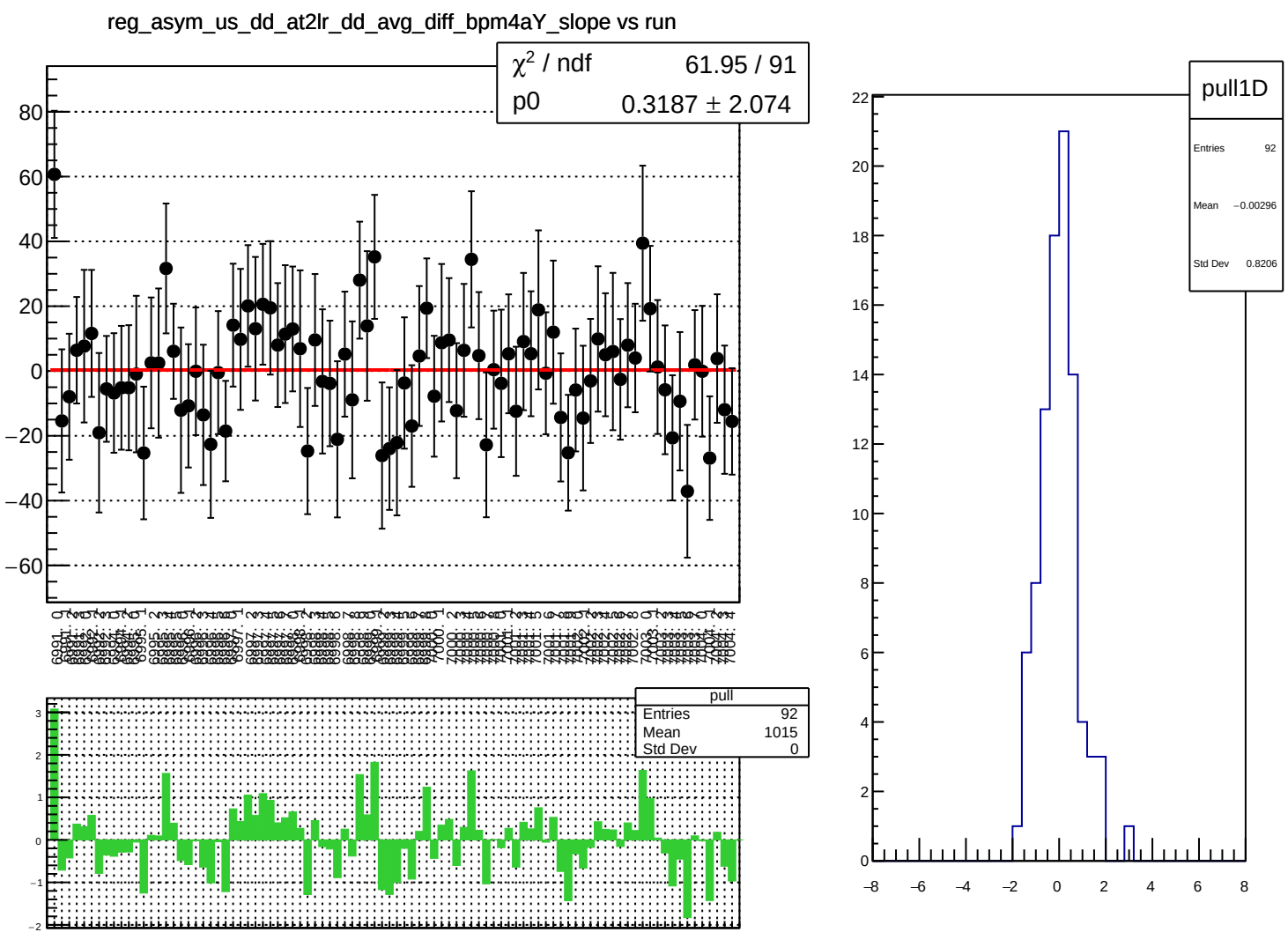

pull1D
Entries 92
Mean 0.000248
Std Dev 0.9666

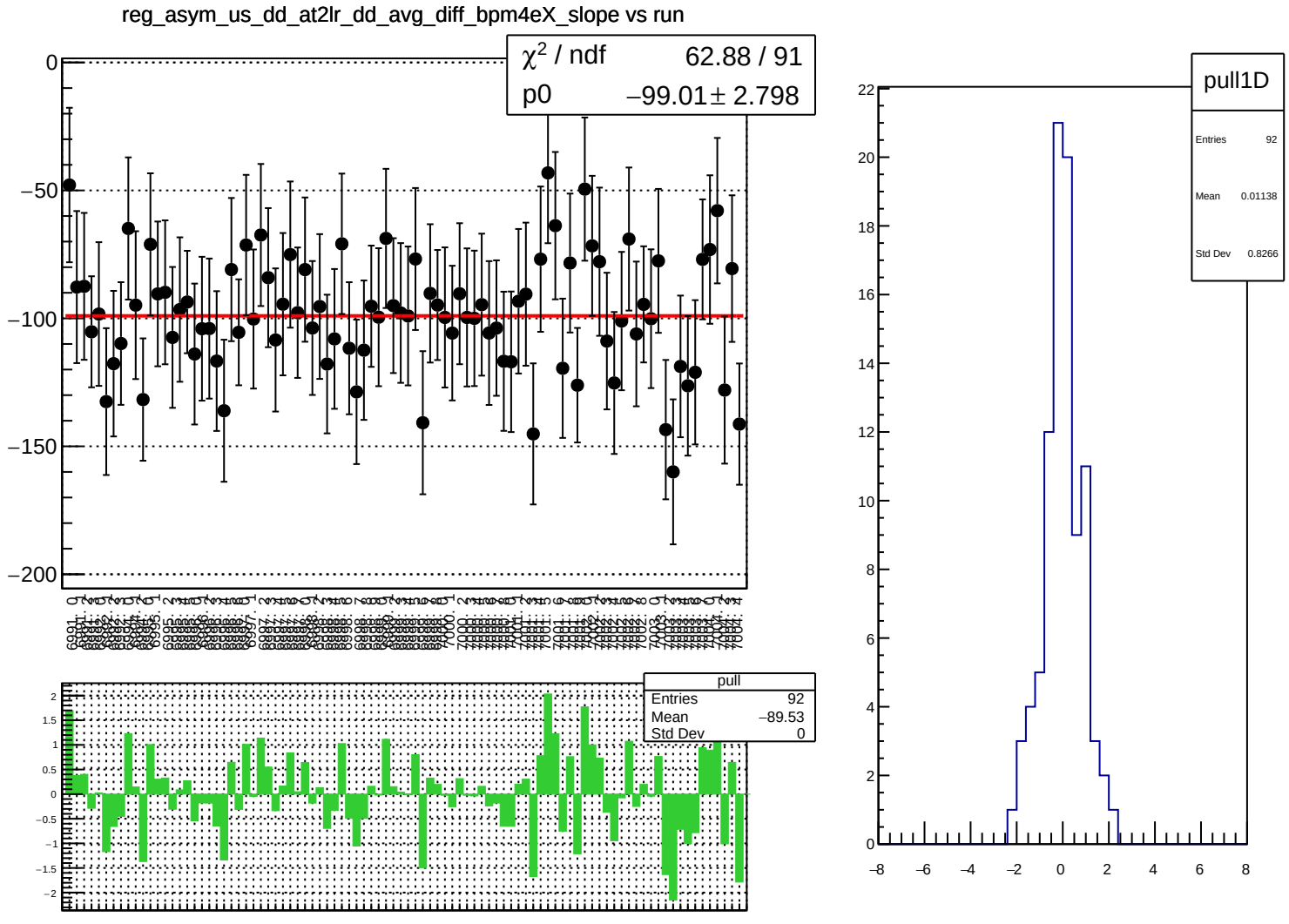

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.93 / 91
p0 0.4657 ± 1.679
pull
Entries 92
Mean 90.27
Std Dev 0
pull1D
Entries 92
Mean 0.02148
Std Dev 0.7933

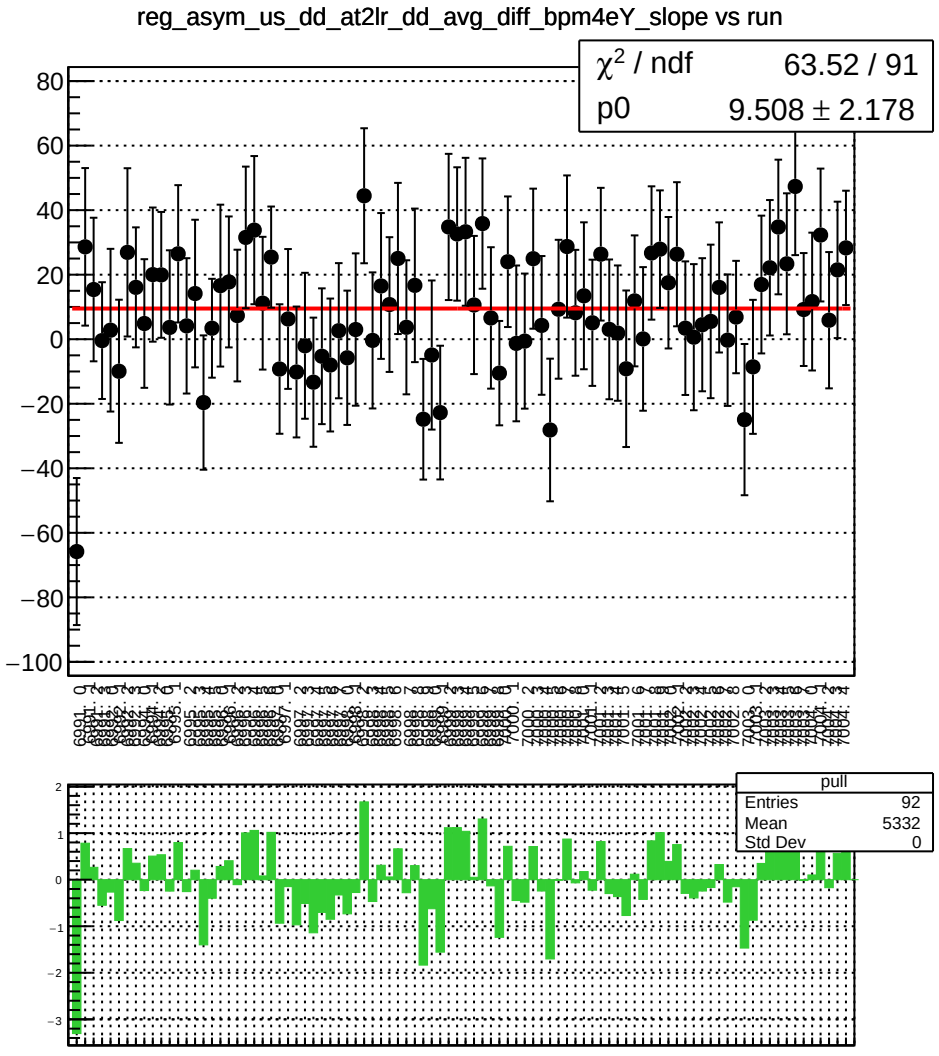

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 78.27 / 91
p0 1.279 ± 0.07508
pull
Entries 92
Mean −252.6
Std Dev 0
pull1D
Entries 92
Mean 0.006621
Std Dev 0.9223

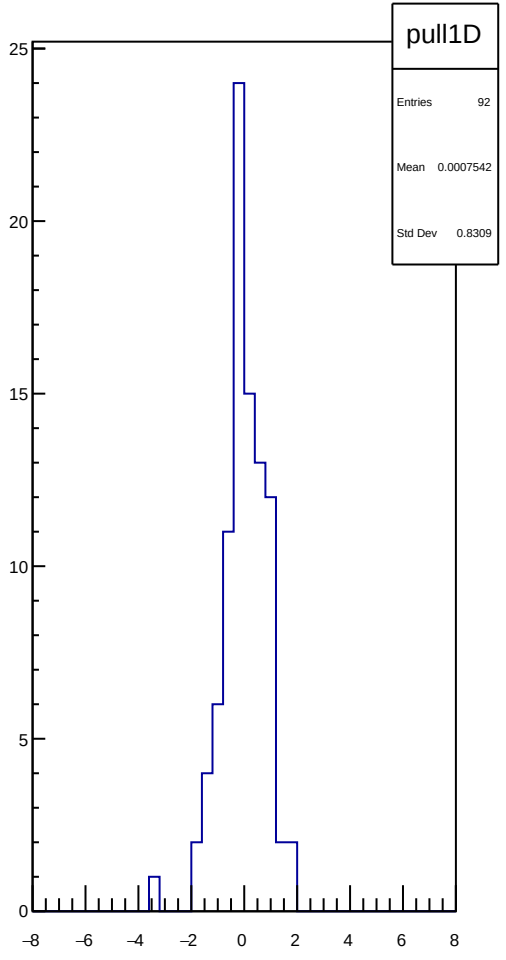

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 64.93 / 91
p0 −48.98 ± 3.035
50
0
−50
−100
−150
pull
Entries 92
Mean −150.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

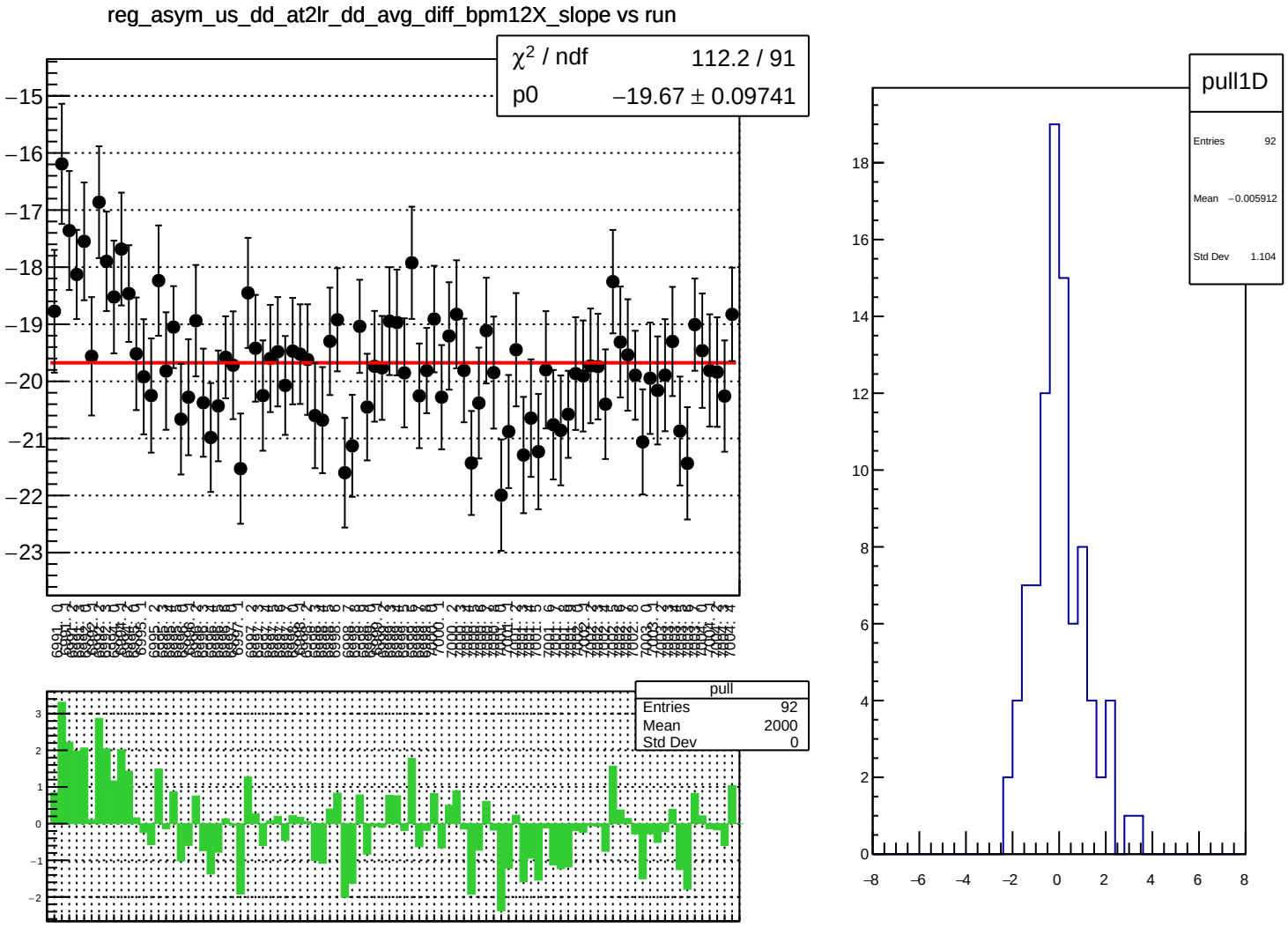

pull1D
Entries 92
Mean −0.01158
Std Dev 0.84
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

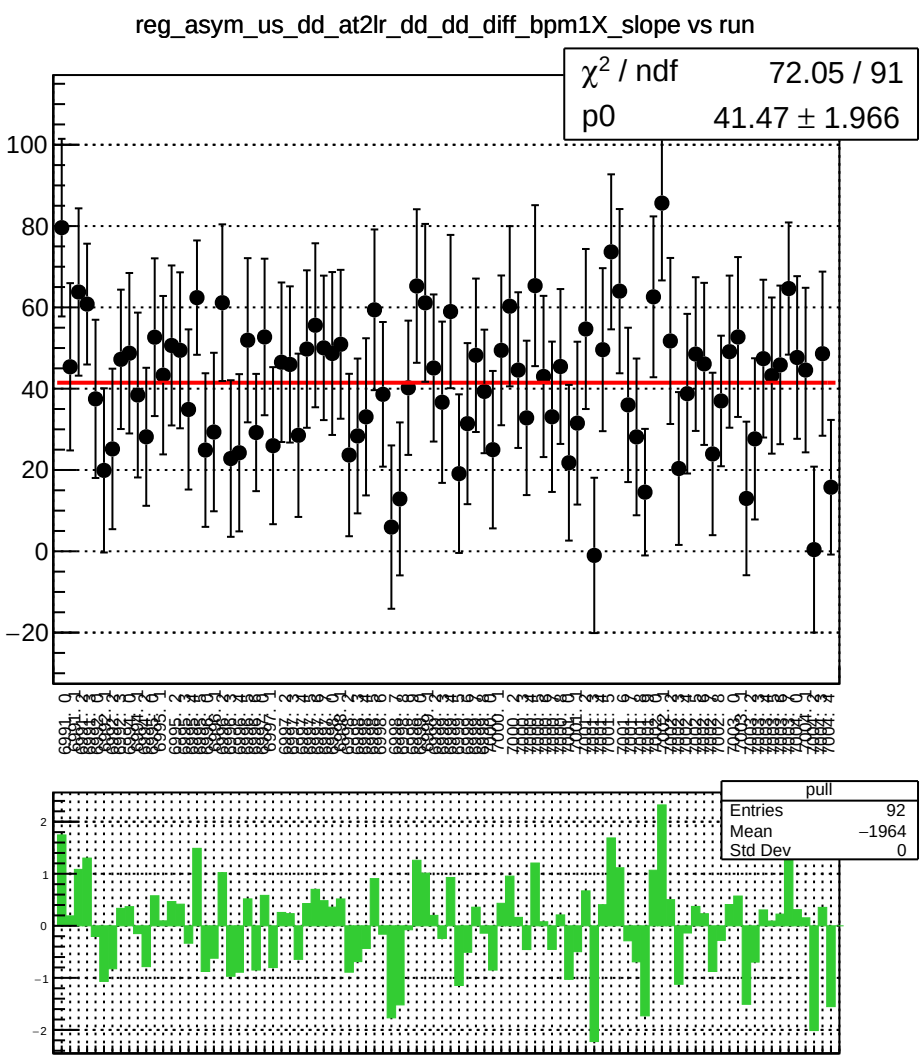

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.95 / 91
p0 0.3187 ± 2.074
pull
Entries 92
Mean 1015
Std Dev 0
pull1D
Entries 92
Mean −0.00296
Std Dev 0.8206

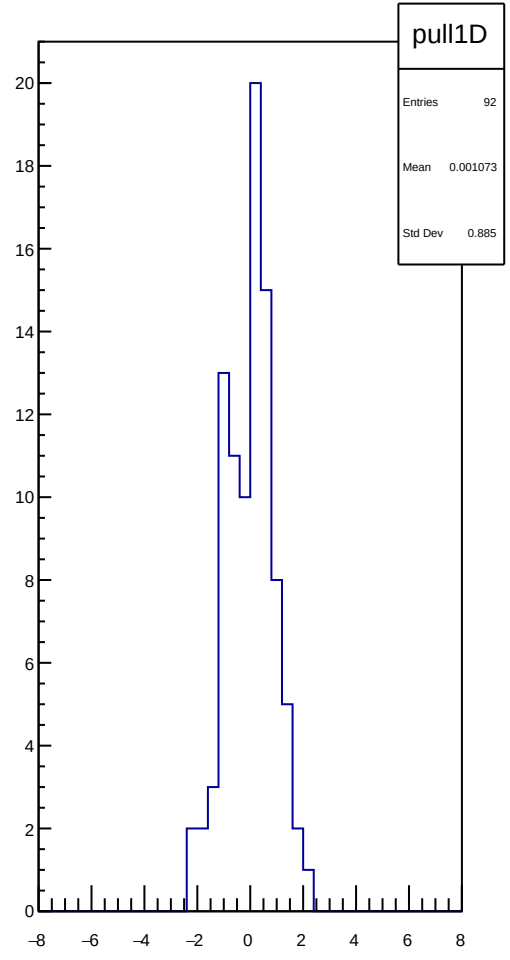

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.88 / 91
p0 −99.01 ± 2.798
pull
Entries 92
Mean −89.53
Std Dev 0
pull1D
Entries 92
Mean 0.01138
Std Dev 0.8266

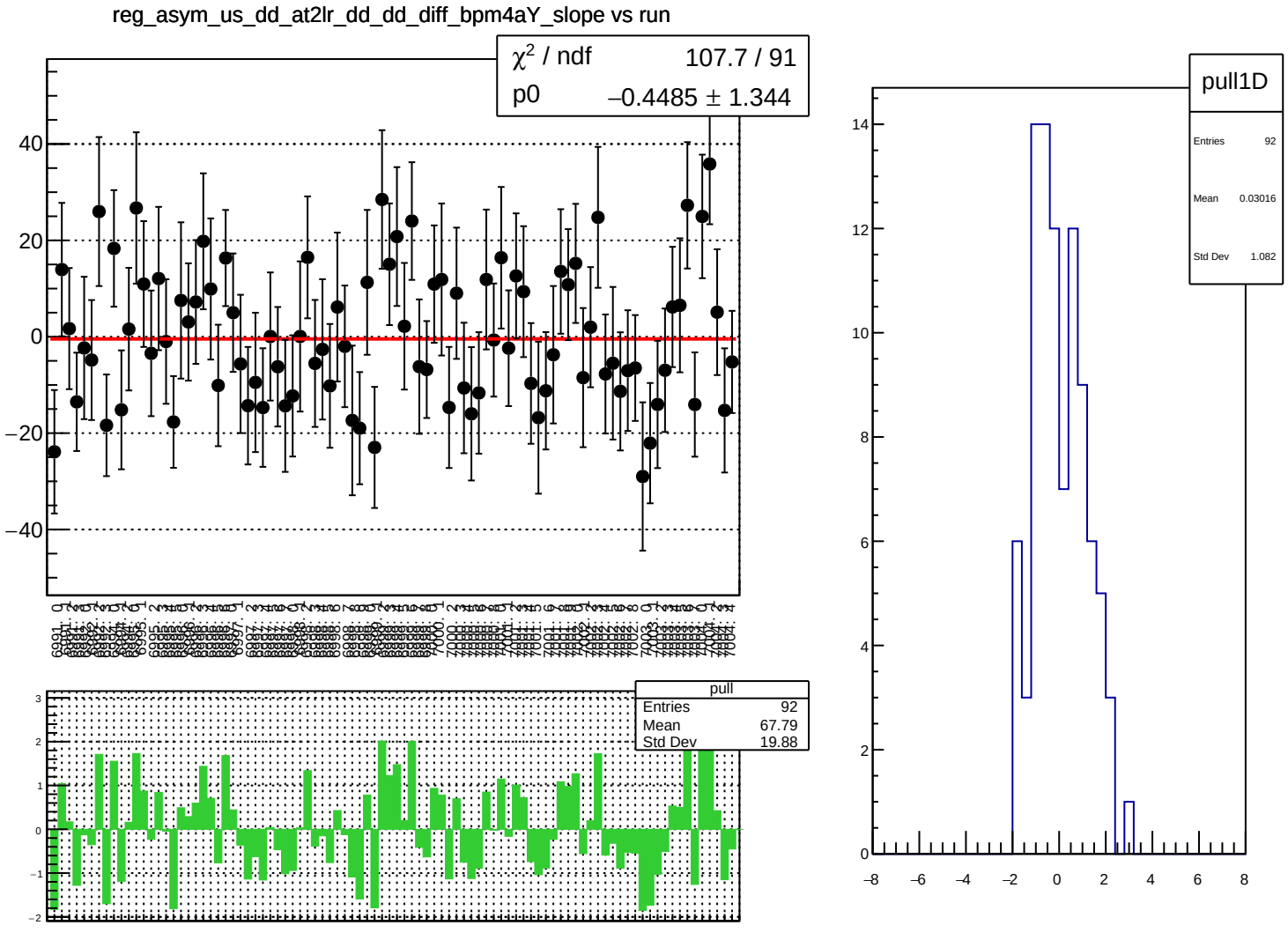

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.52 / 91
p0 9.508 ± 2.178
pull
Entries 92
Mean 5332
Std Dev 0

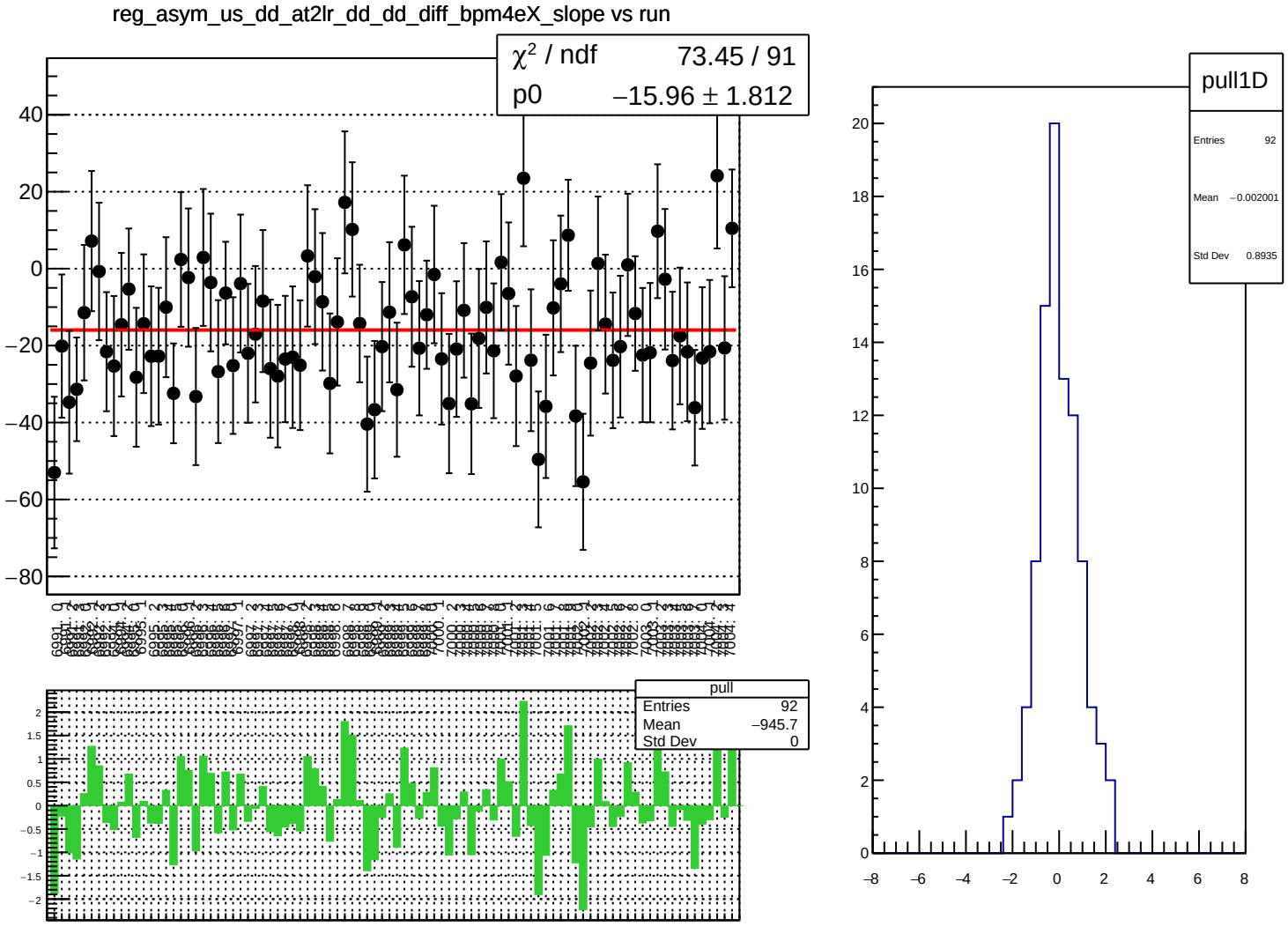

pull1D
Entries 92
Mean 0.0007542
Std Dev 0.8309

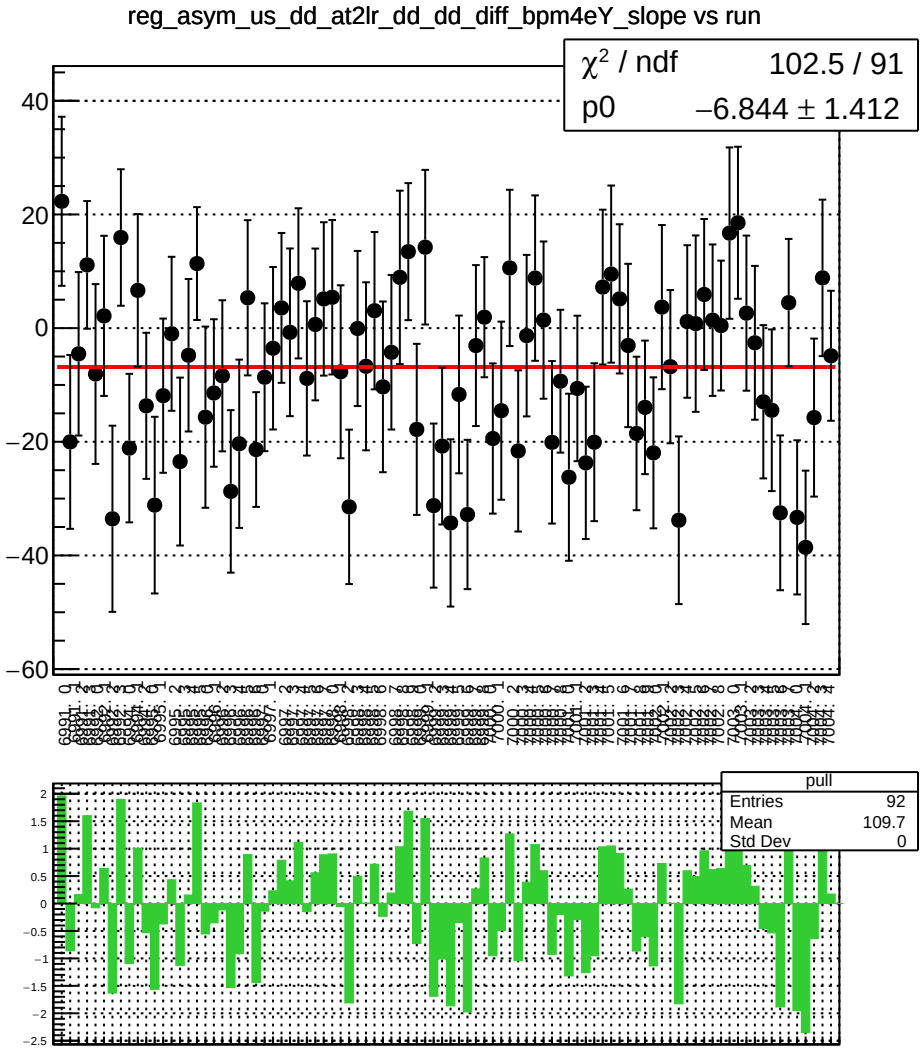

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 112.2 / 91
p0 −19.67 ± 0.09741
pull
Entries 92
Mean 2000
Std Dev 0
pull1D
Entries 92
Mean −0.005912
Std Dev 1.104

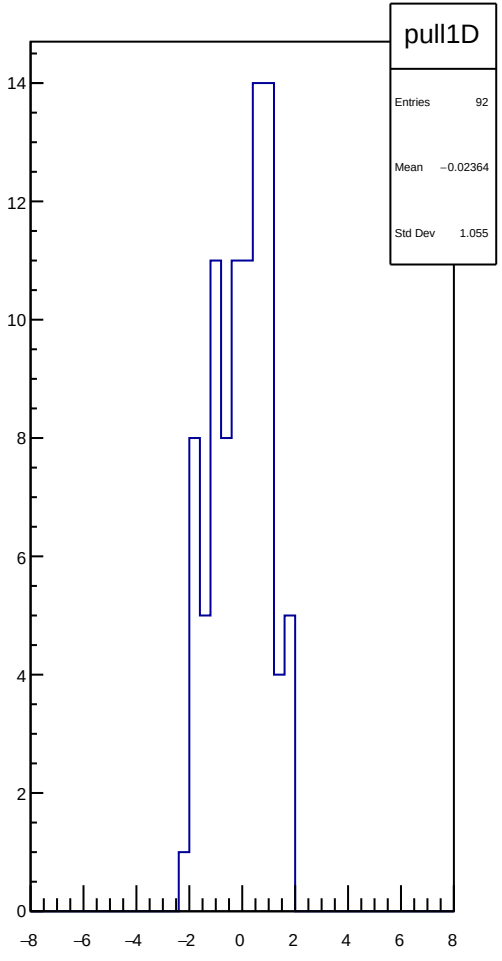

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 72.05 / 91
p0 41.47 ± 1.966
pull
Entries 92
Mean −1964
Std Dev 0

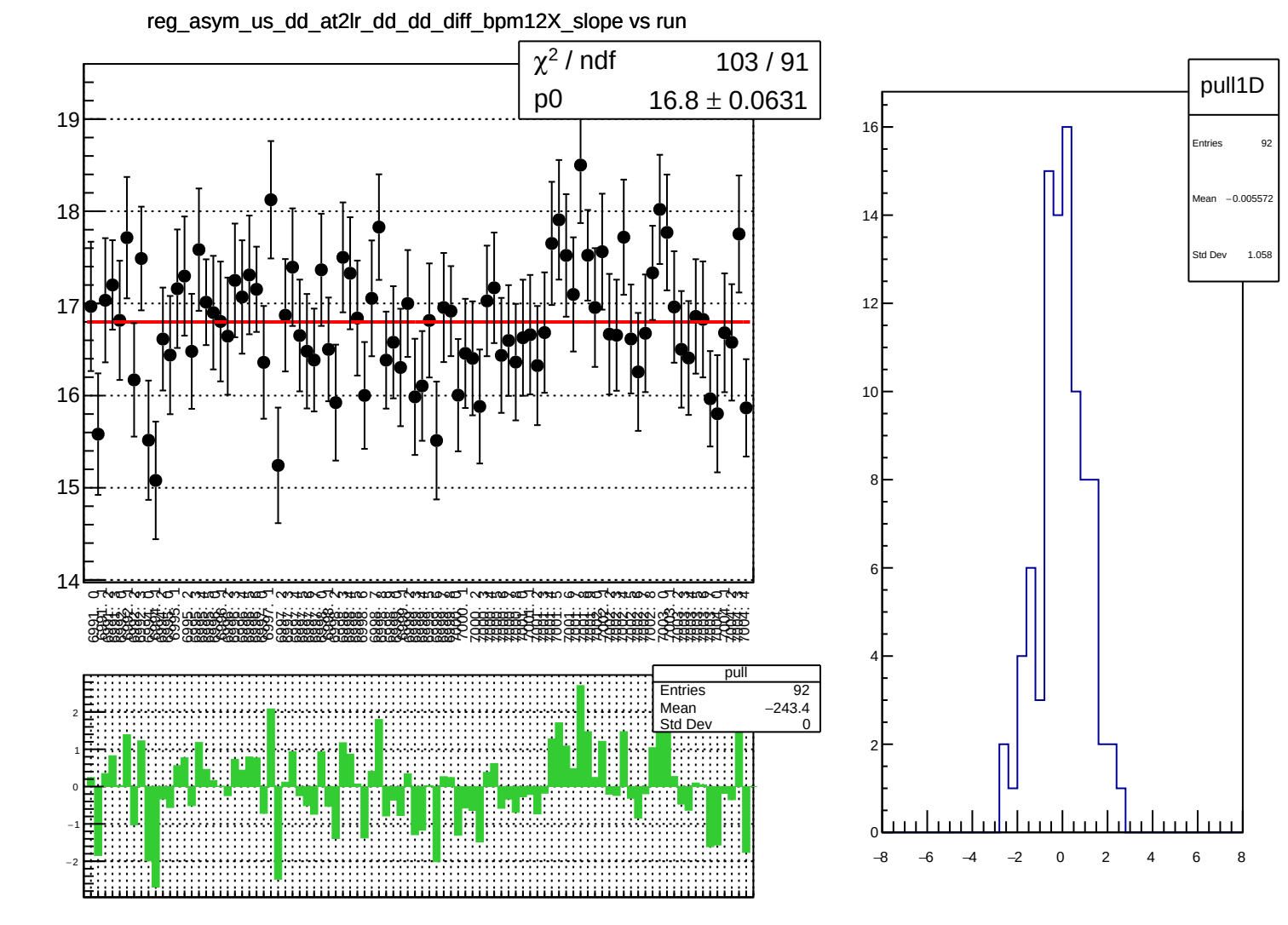

pull1D
Entries 92
Mean 0.001073
Std Dev 0.885

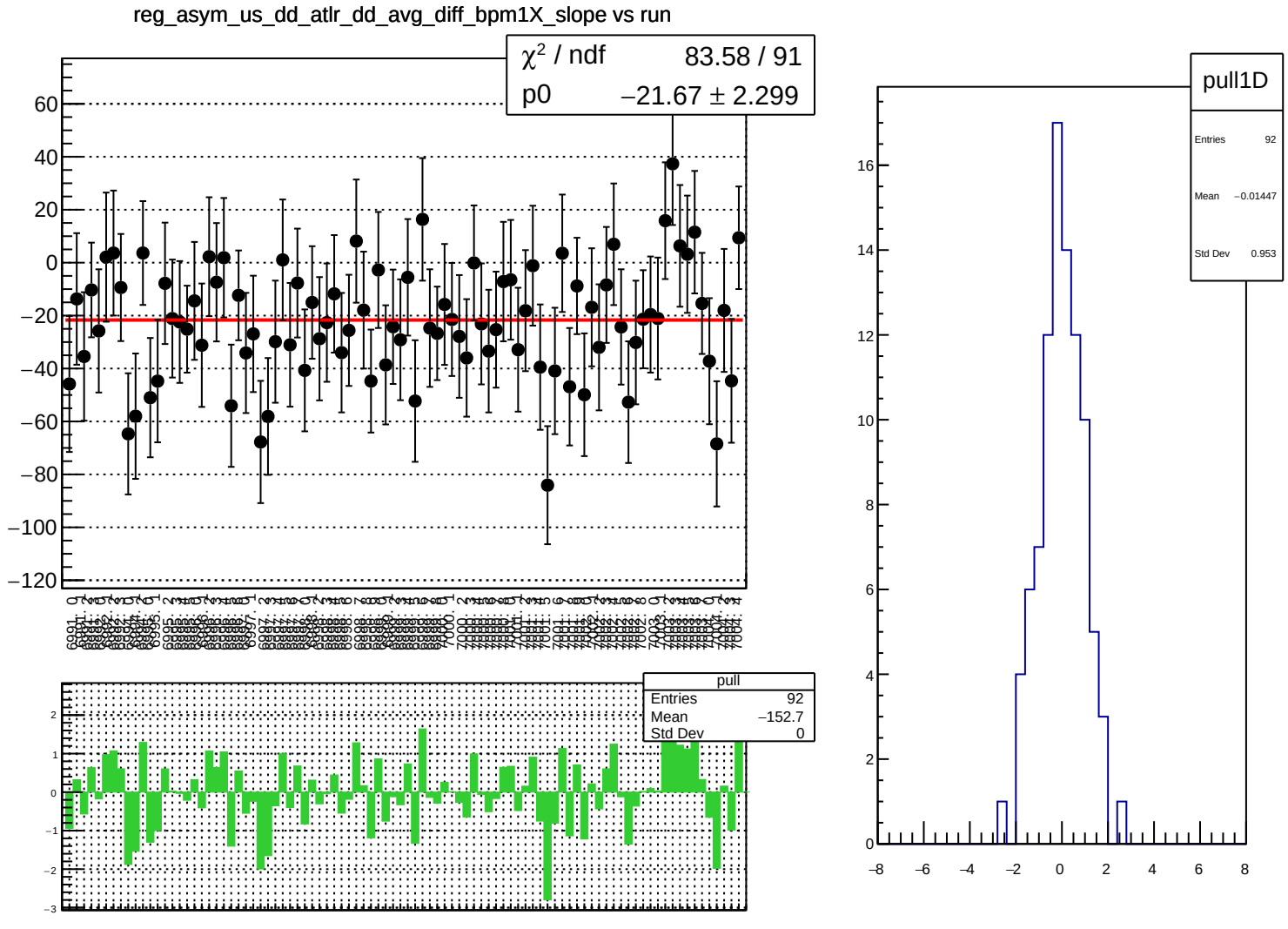

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 107.7 / 91
p0 −0.4485 ± 1.344
40
20
0
−20
−40
pull
Entries 92
Mean 67.79
Std Dev 19.88
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.03016
Std Dev 1.082
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

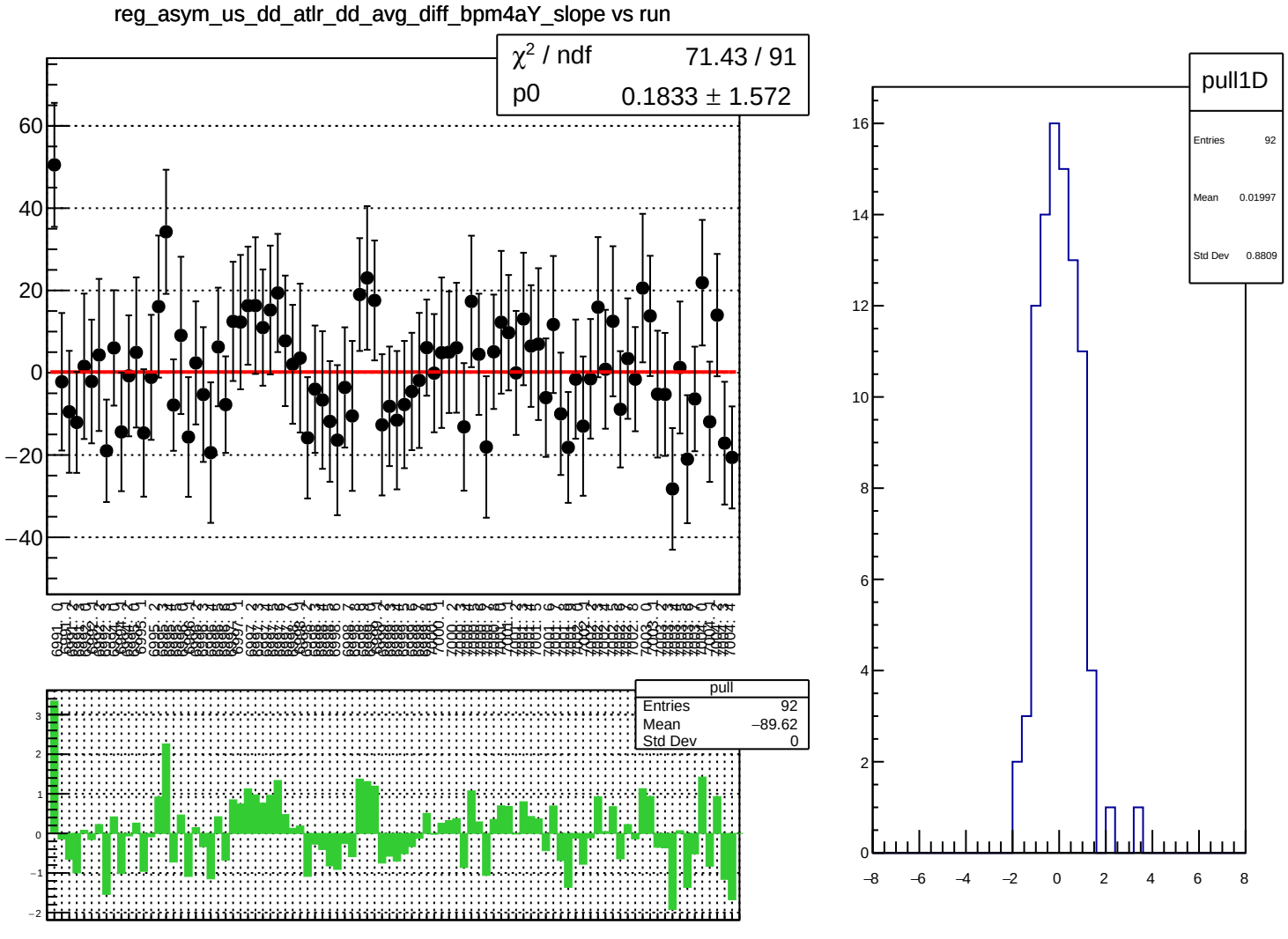

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.45 / 91
p0 −15.96 ± 1.812
pull
Entries 92
Mean −945.7
Std Dev 0
pull1D
Entries 92
Mean −0.002001
Std Dev 0.8935

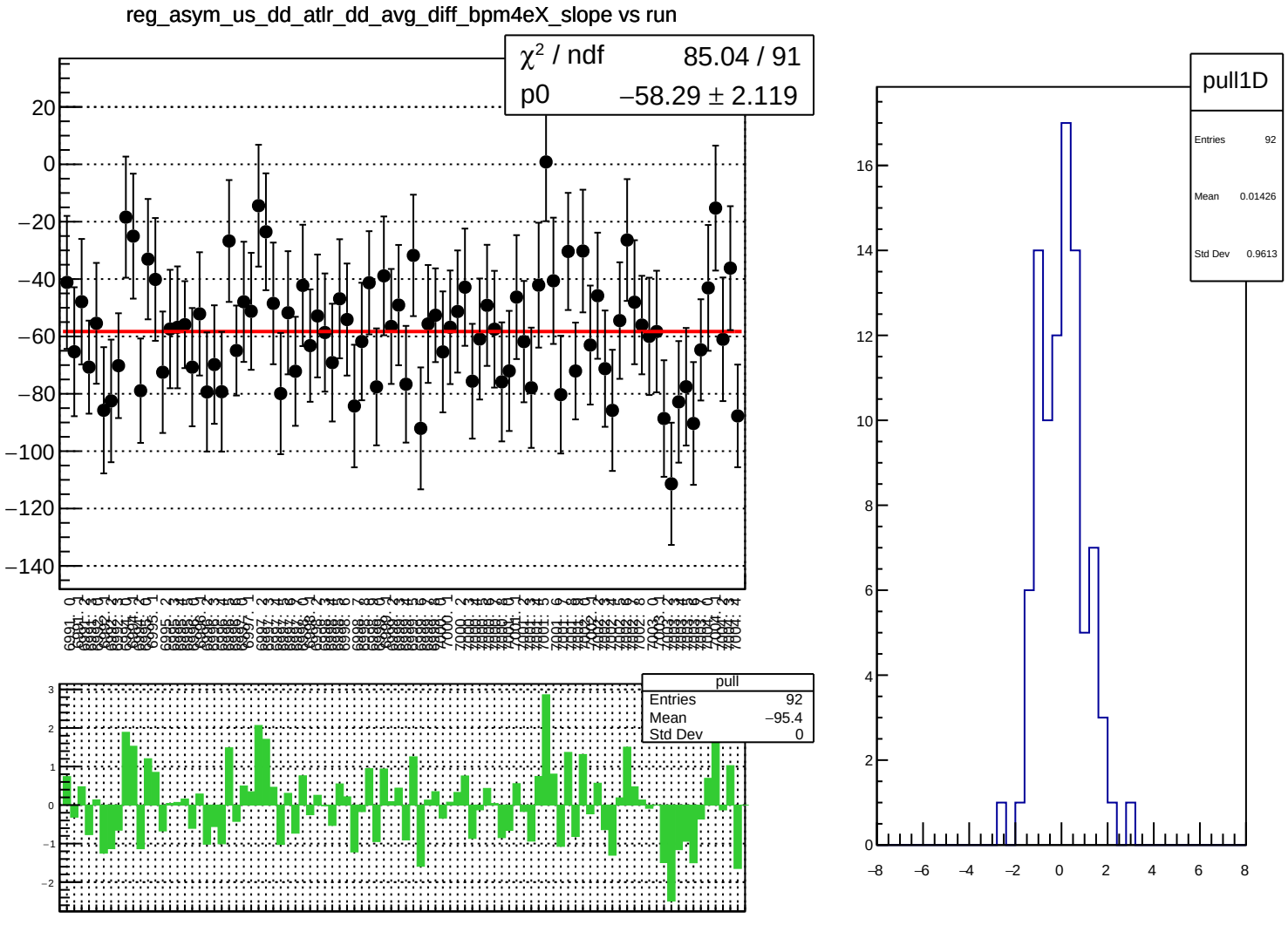

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 102.5 / 91
p0 −6.844 ± 1.412
pull
Entries 92
Mean 109.7
Std Dev 0

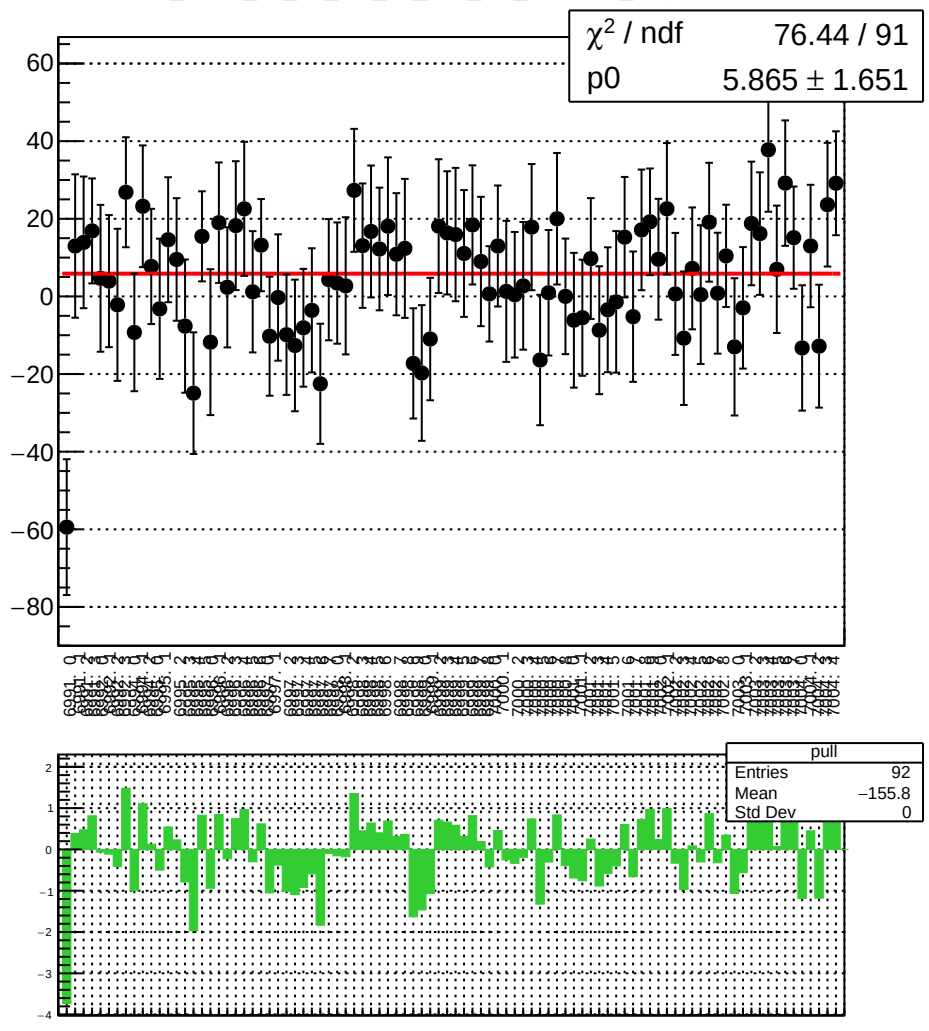

pull1D
Entries 92
Mean −0.02364
Std Dev 1.055

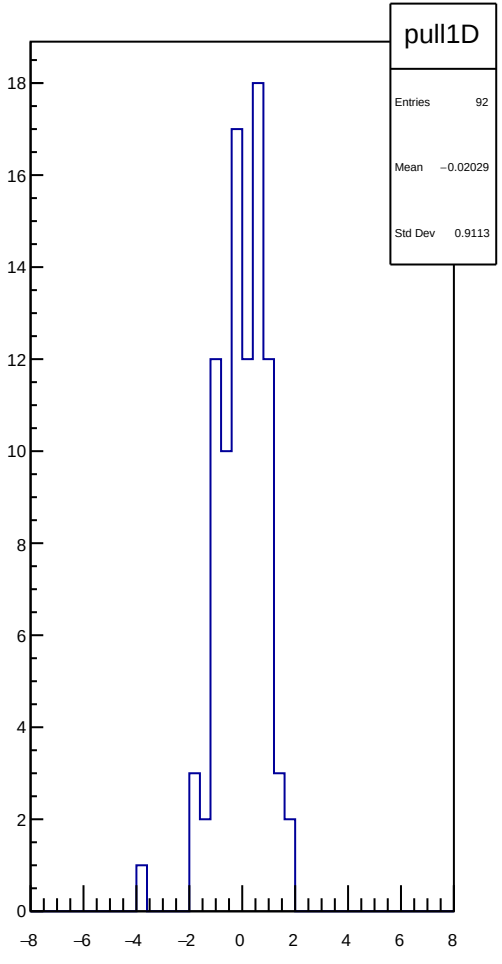

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 103 / 91
p0 16.8 ± 0.0631
pull
Entries 92
Mean −243.4
Std Dev 0
pull1D
Entries 92
Mean −0.005572
Std Dev 1.058

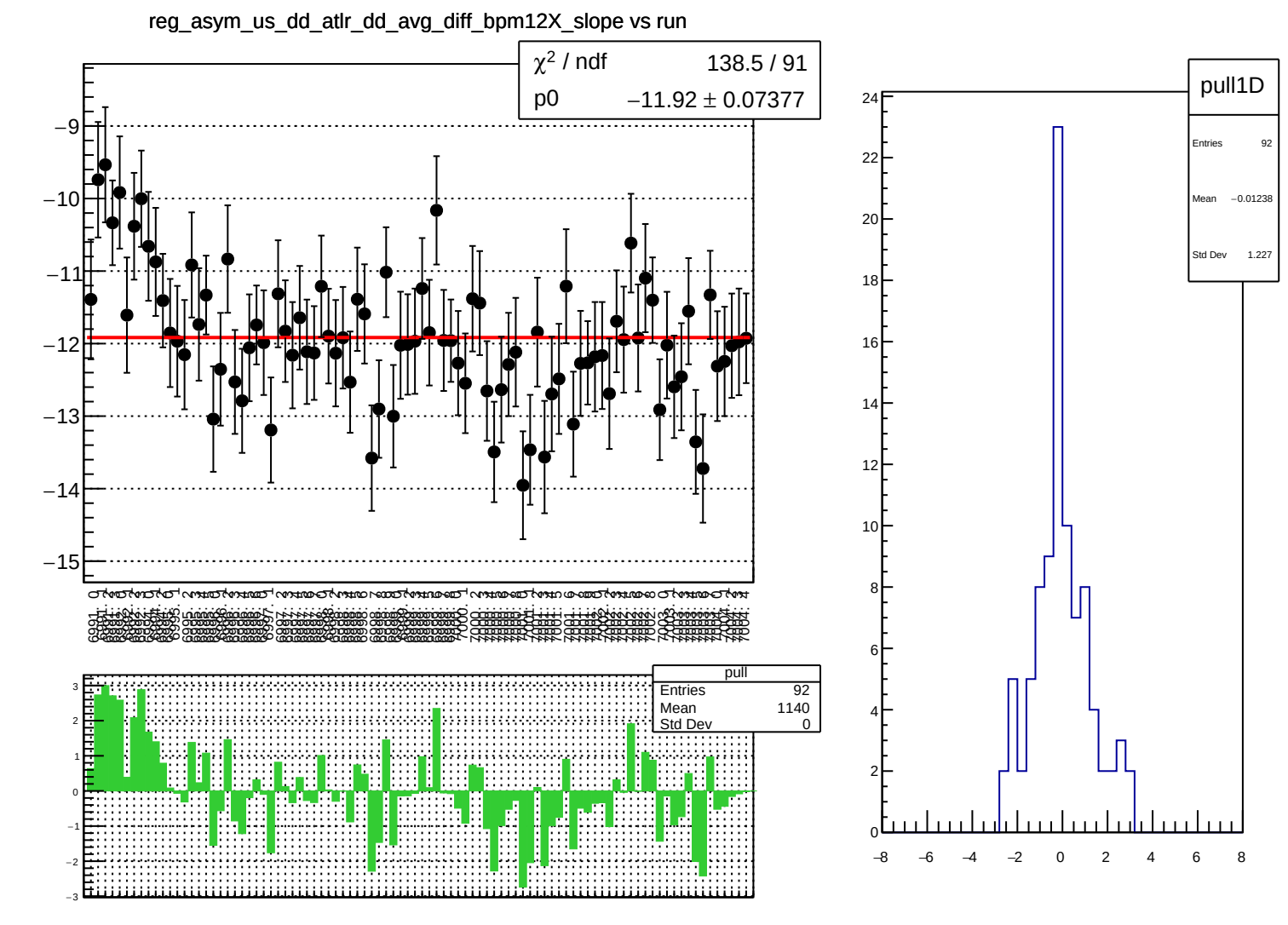

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 83.58 / 91
p0 −21.67 ± 2.299
pull
Entries 92
Mean −152.7
Std Dev 0
pull1D
Entries 92
Mean −0.01447
Std Dev 0.953

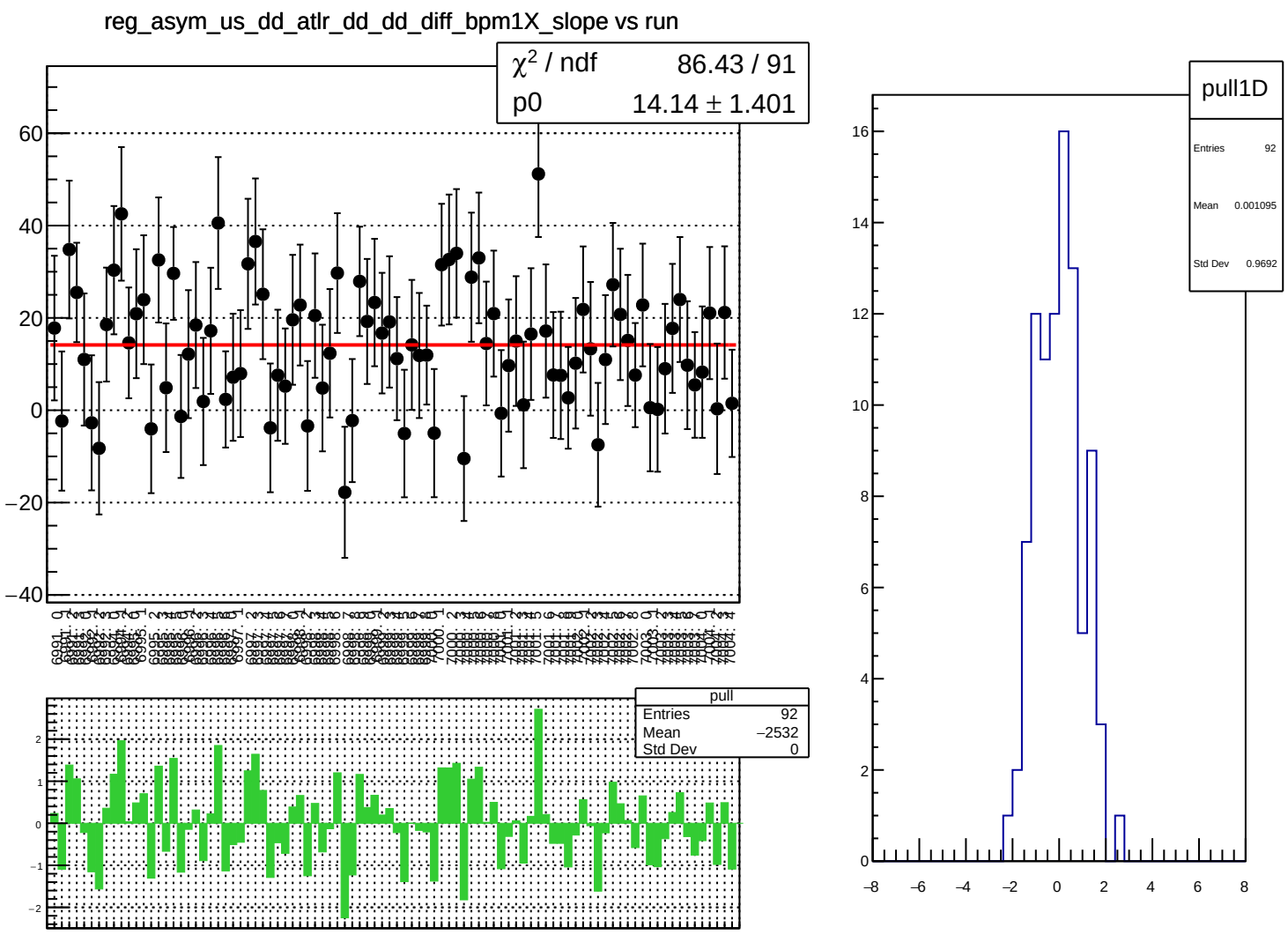

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 71.43 / 91
p0 0.1833 ± 1.572
pull
Entries 92
Mean −89.62
Std Dev 0
pull1D
Entries 92
Mean 0.01997
Std Dev 0.8809

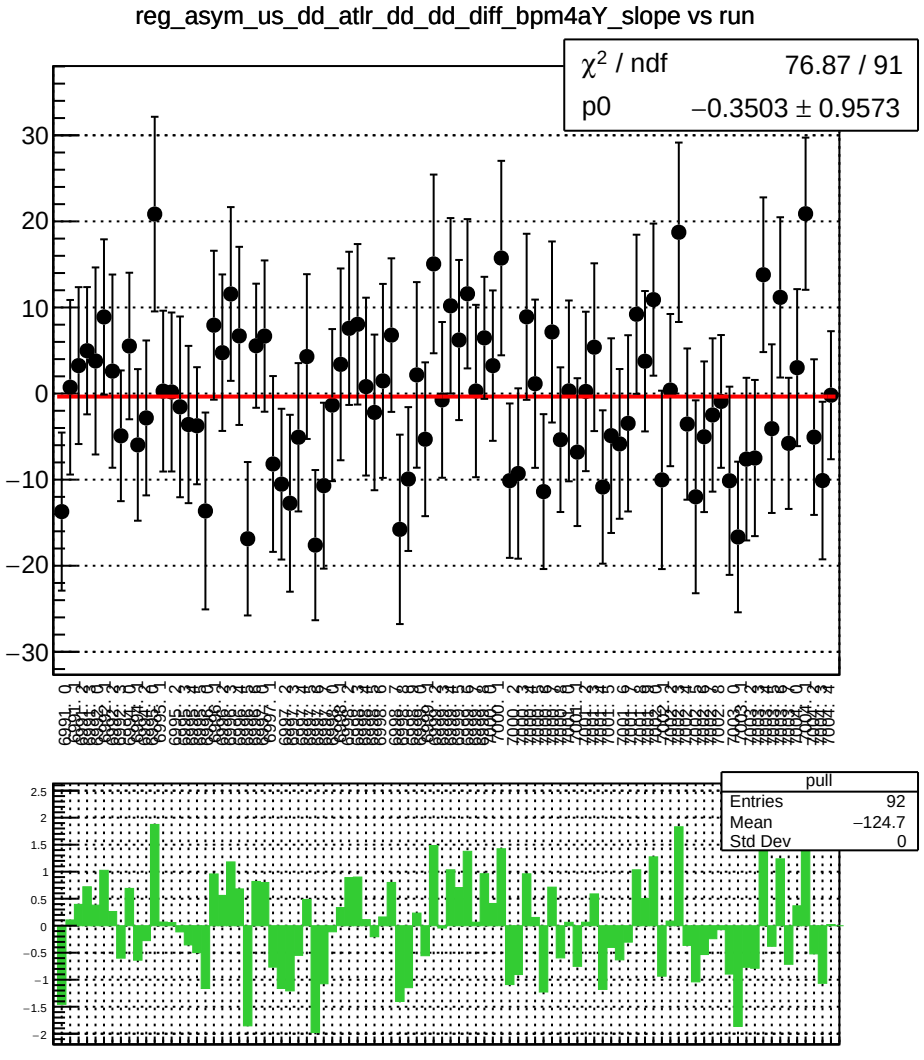

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.04 / 91
p0 −58.29 ± 2.119
pull
Entries 92
Mean −95.4
Std Dev 0
pull1D
Entries 92
Mean 0.01426
Std Dev 0.9613

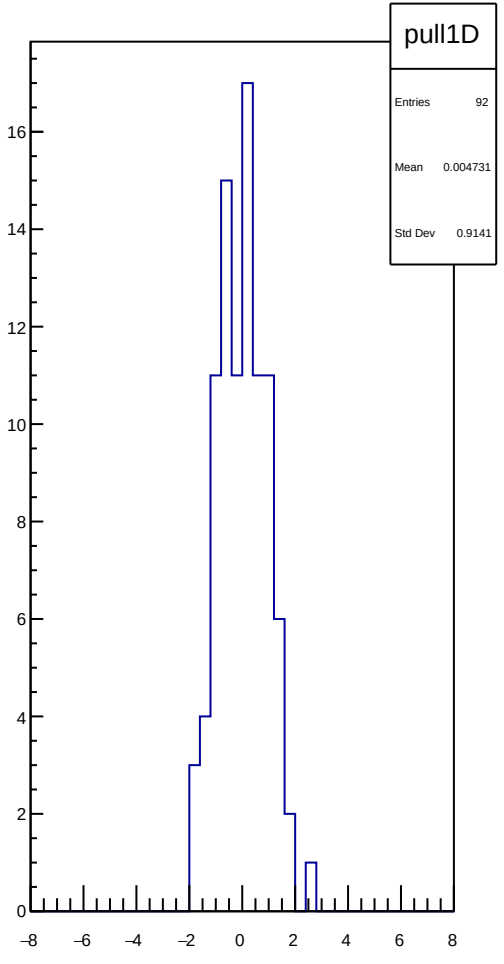

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.44 / 91
p0 5.865 ± 1.651
pull
Entries 92
Mean −155.8
Std Dev 0

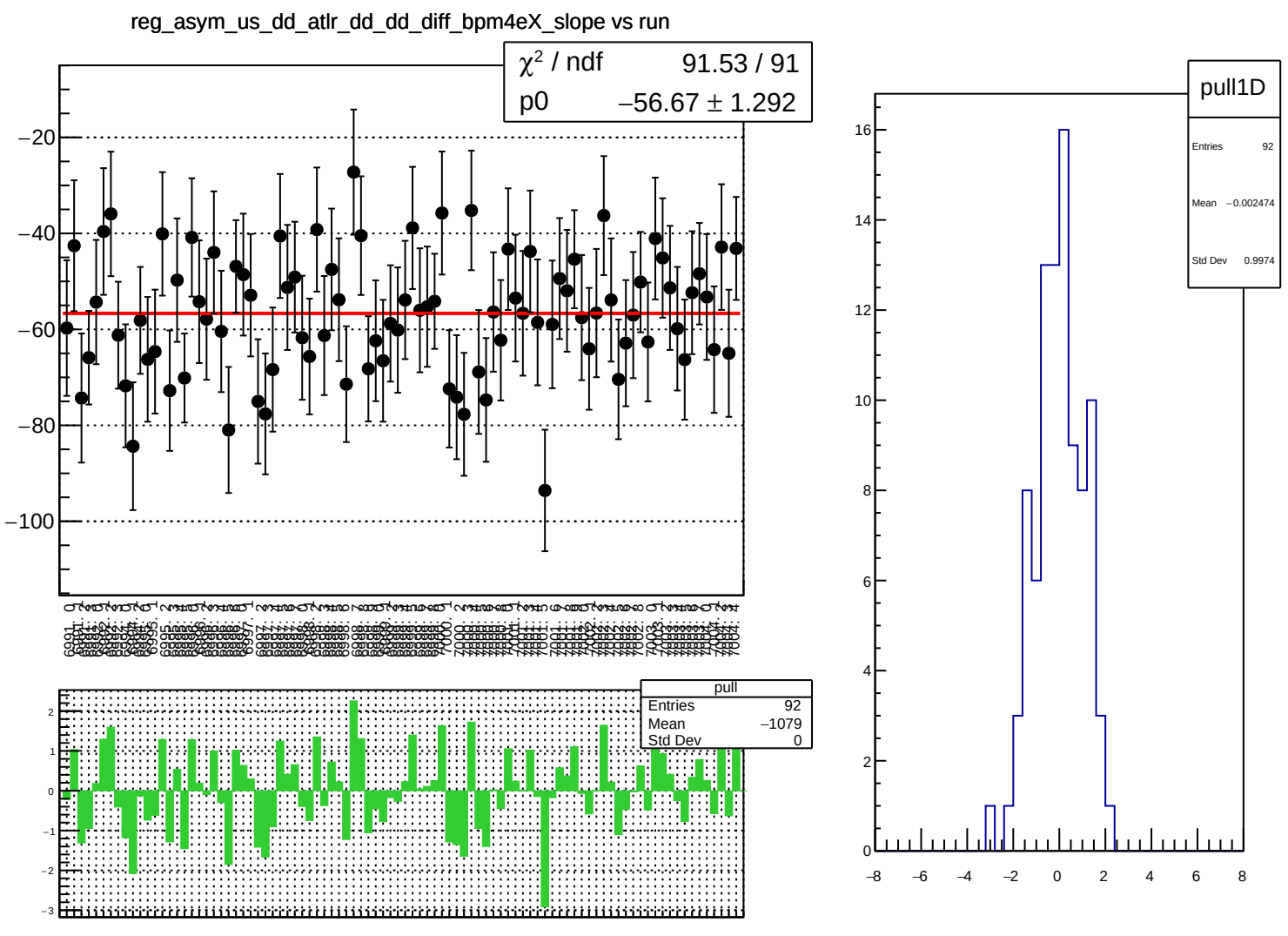

pull1D
Entries 92
Mean −0.02029
Std Dev 0.9113

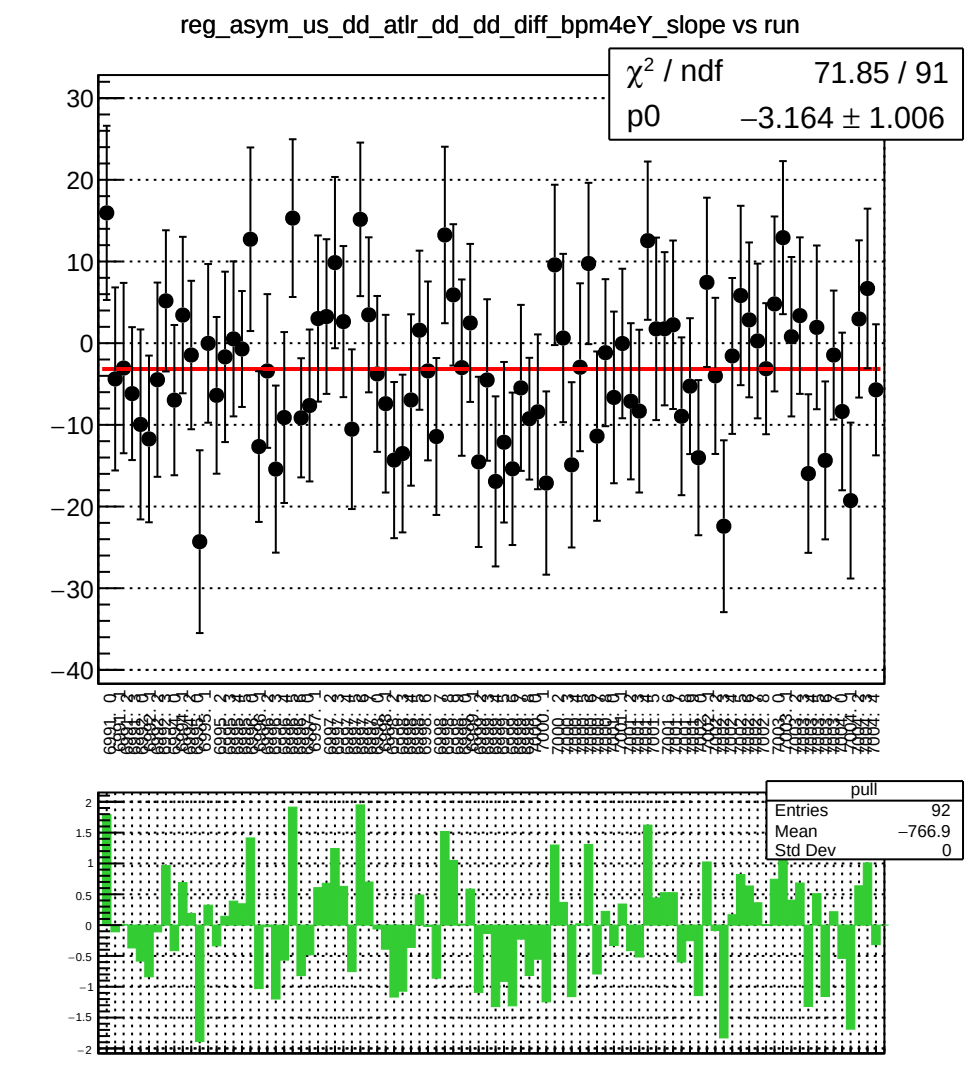

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 138.5 / 91
p0 −11.92 ± 0.07377
pull
Entries 92
Mean 1140
Std Dev 0
pull1D
Entries 92
Mean −0.01238
Std Dev 1.227

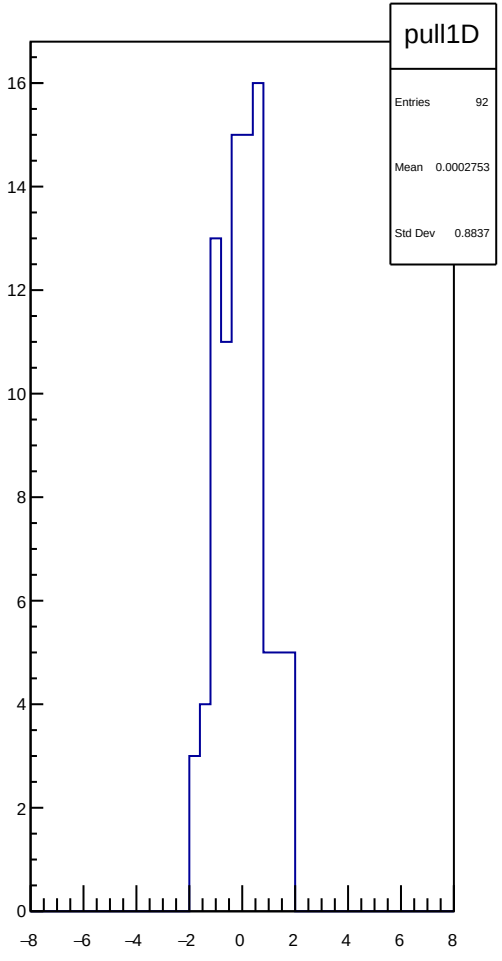

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 86.43 / 91
p0 14.14 ± 1.401
pull
Entries 92
Mean −2532
Std Dev 0
pull1D
Entries 92
Mean 0.001095
Std Dev 0.9692

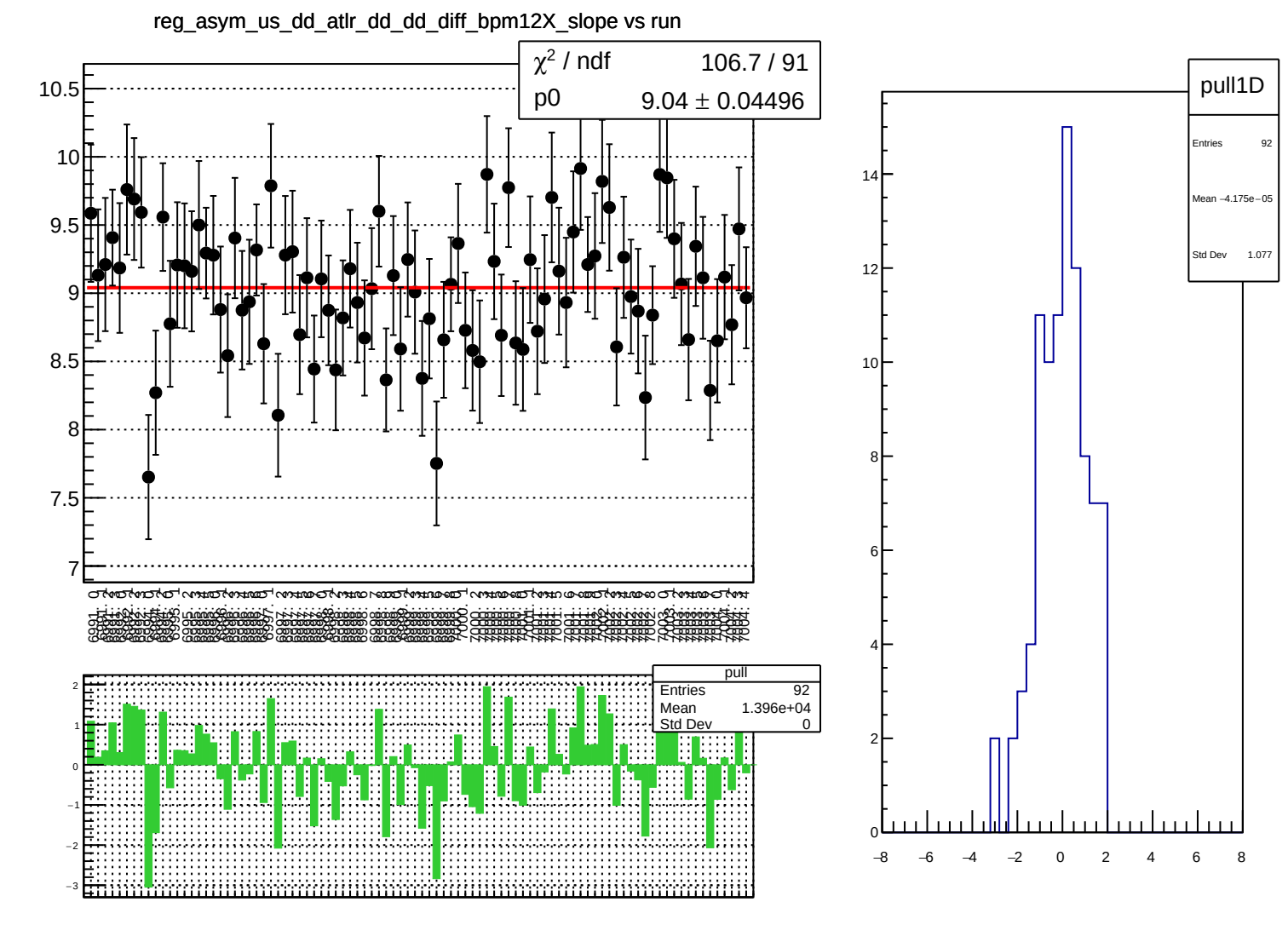

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.87 / 91
p0 −0.3503 ± 0.9573
pull
Entries 92
Mean −124.7
Std Dev 0

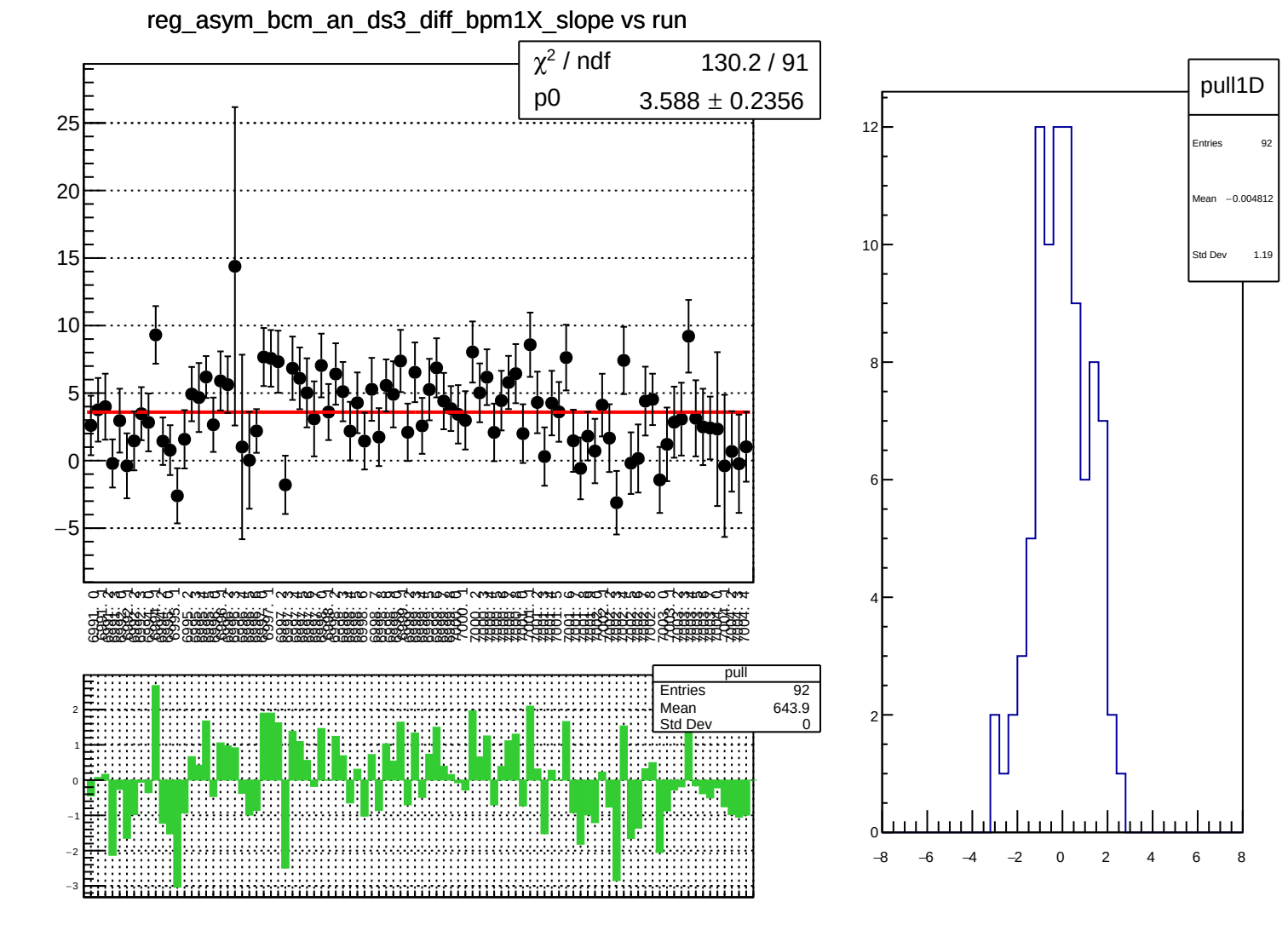

pull1D
Entries 92
Mean 0.004731
Std Dev 0.9141

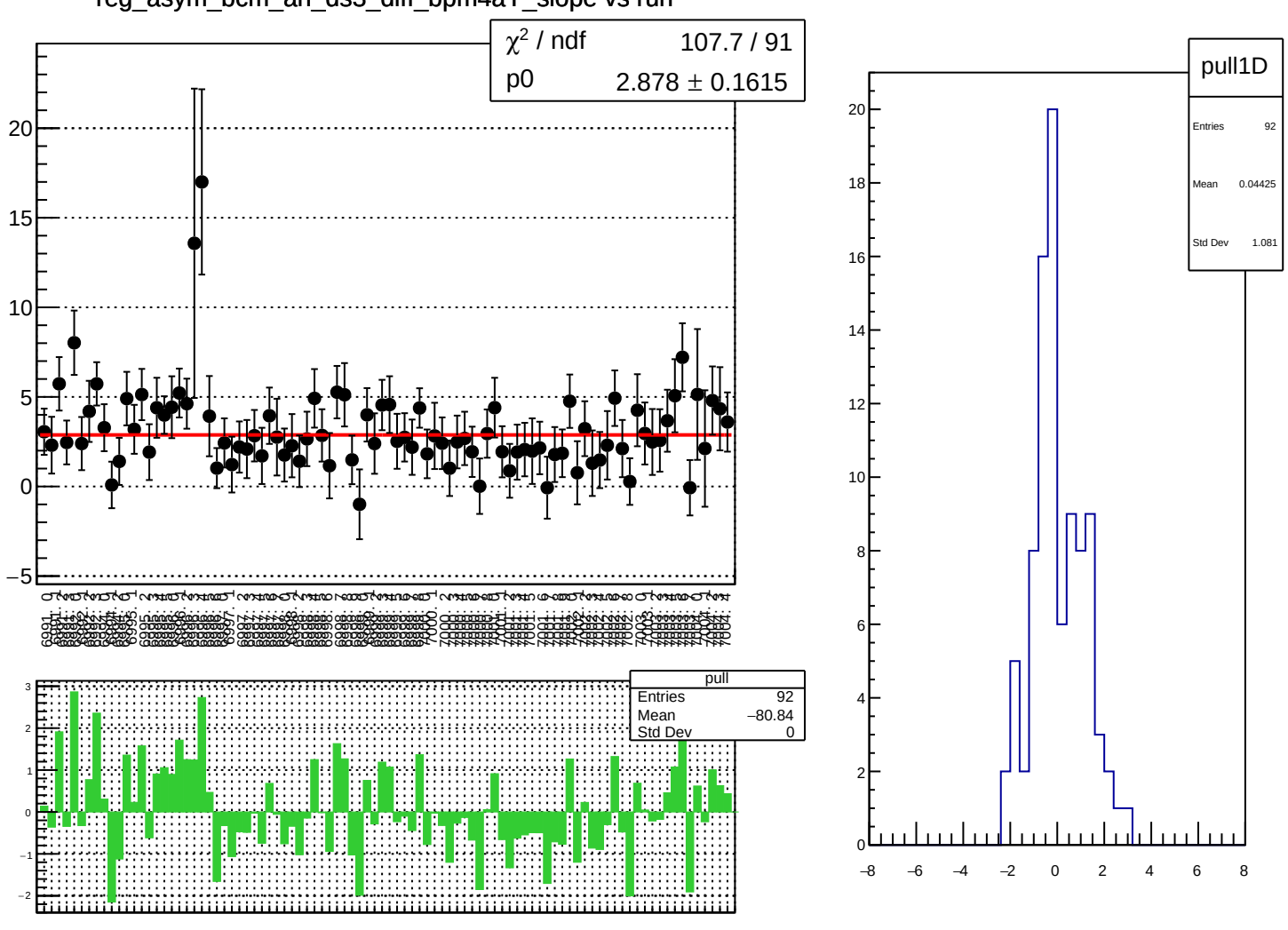

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.53 / 91
p0 −56.67 ± 1.292
−20
−40
−60
−80
−100
pull
Entries 92
Mean −1079
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.002474
Std Dev 0.9974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

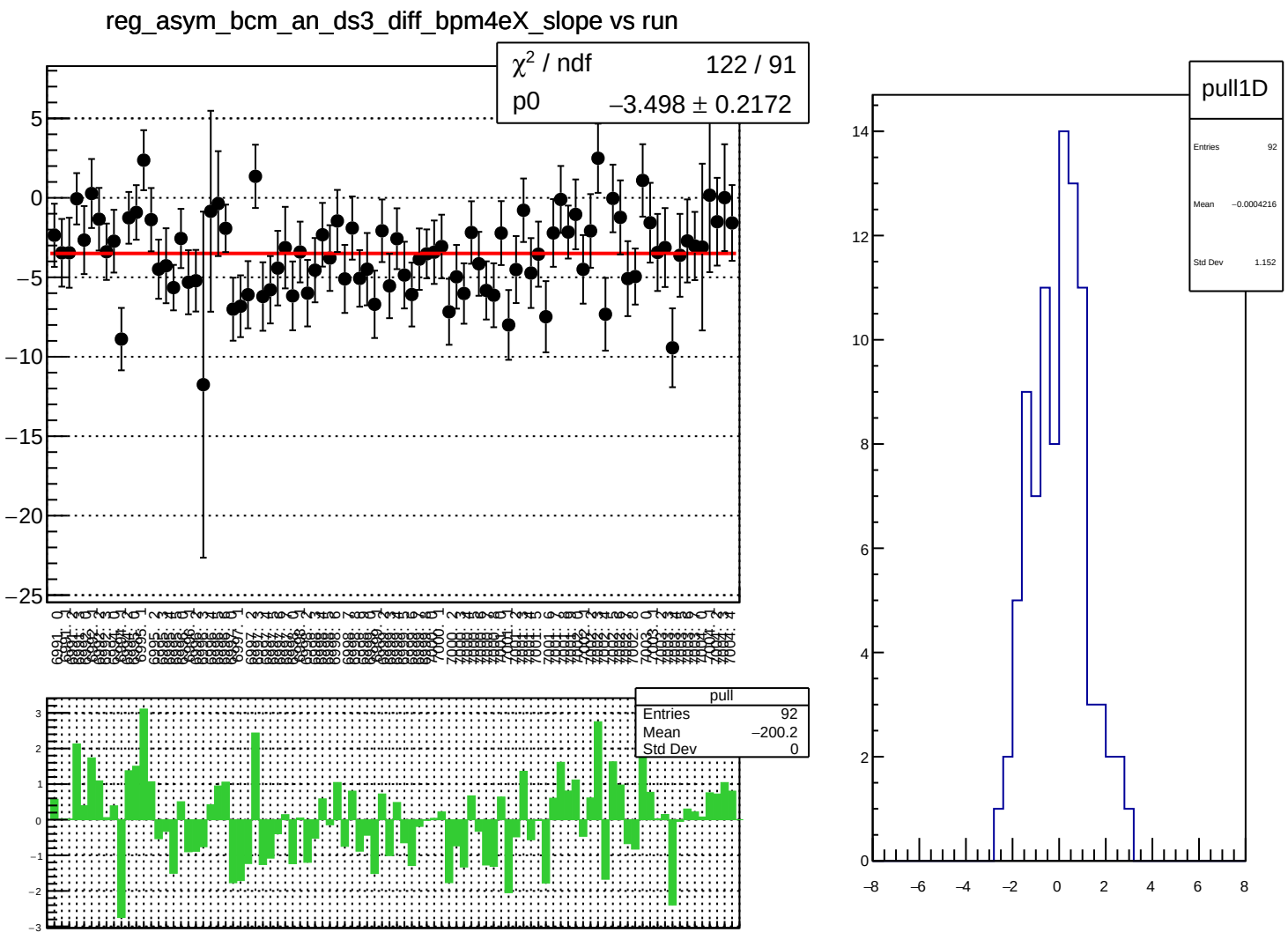

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.85 / 91
p0 −3.164 ± 1.006
pull
Entries 92
Mean −766.9
Std Dev 0

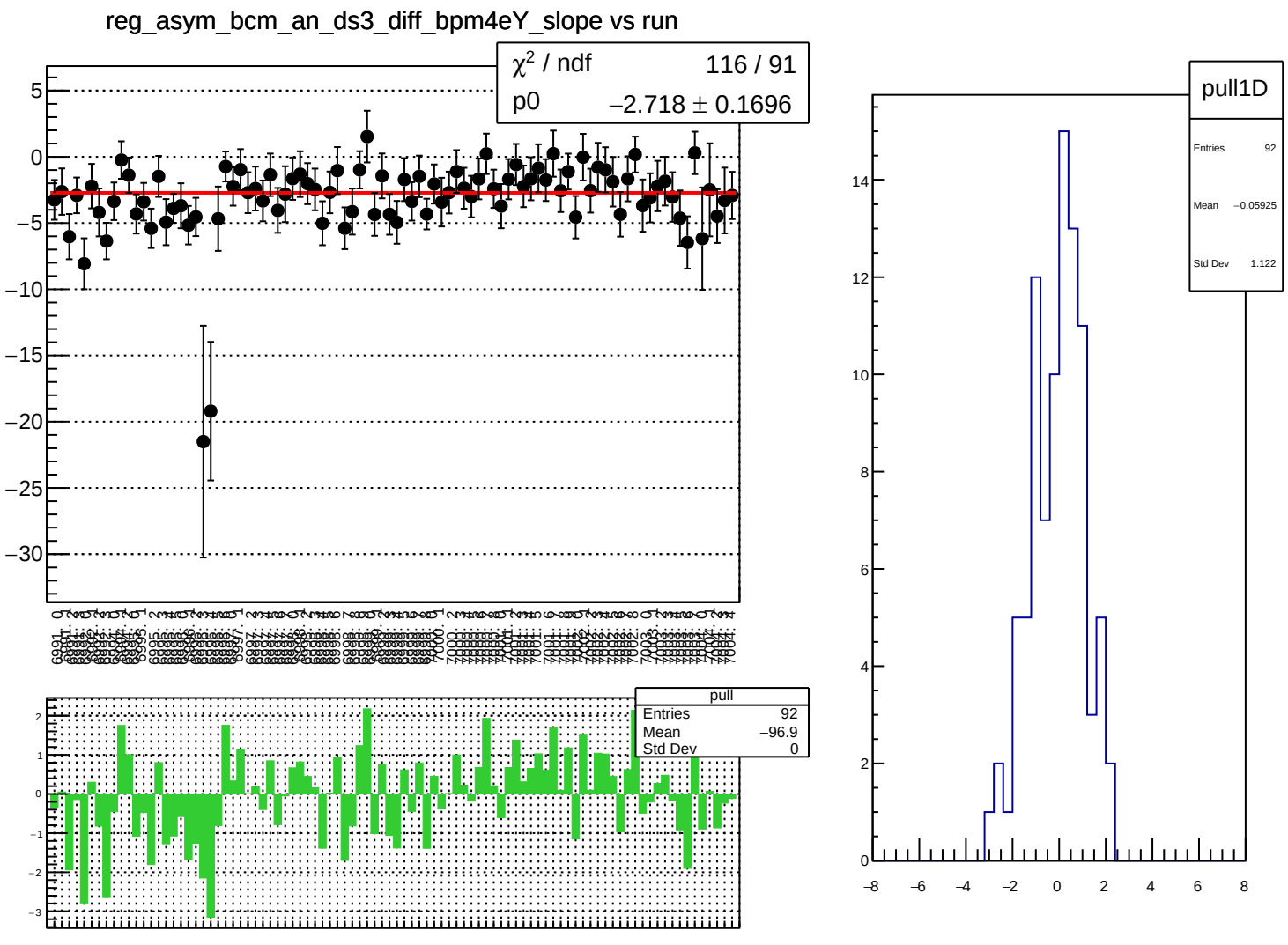

pull1D
Entries 92
Mean 0.0002753
Std Dev 0.8837

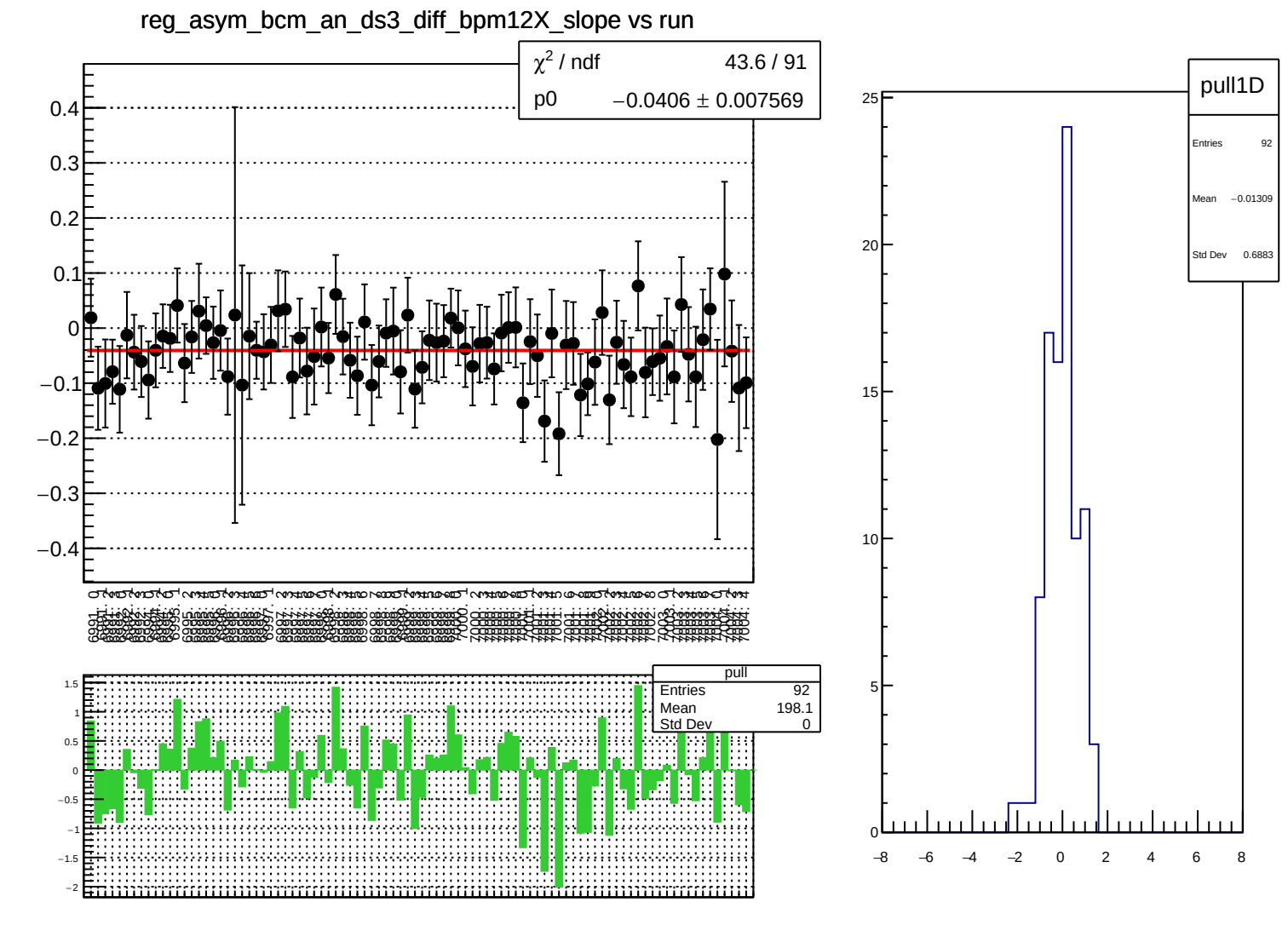

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 106.7 / 91
p0 9.04 ± 0.04496
pull
Entries 92
Mean 1.396e+04
Std Dev 0
pull1D
Entries 92
Mean −4.175e−05
Std Dev 1.077

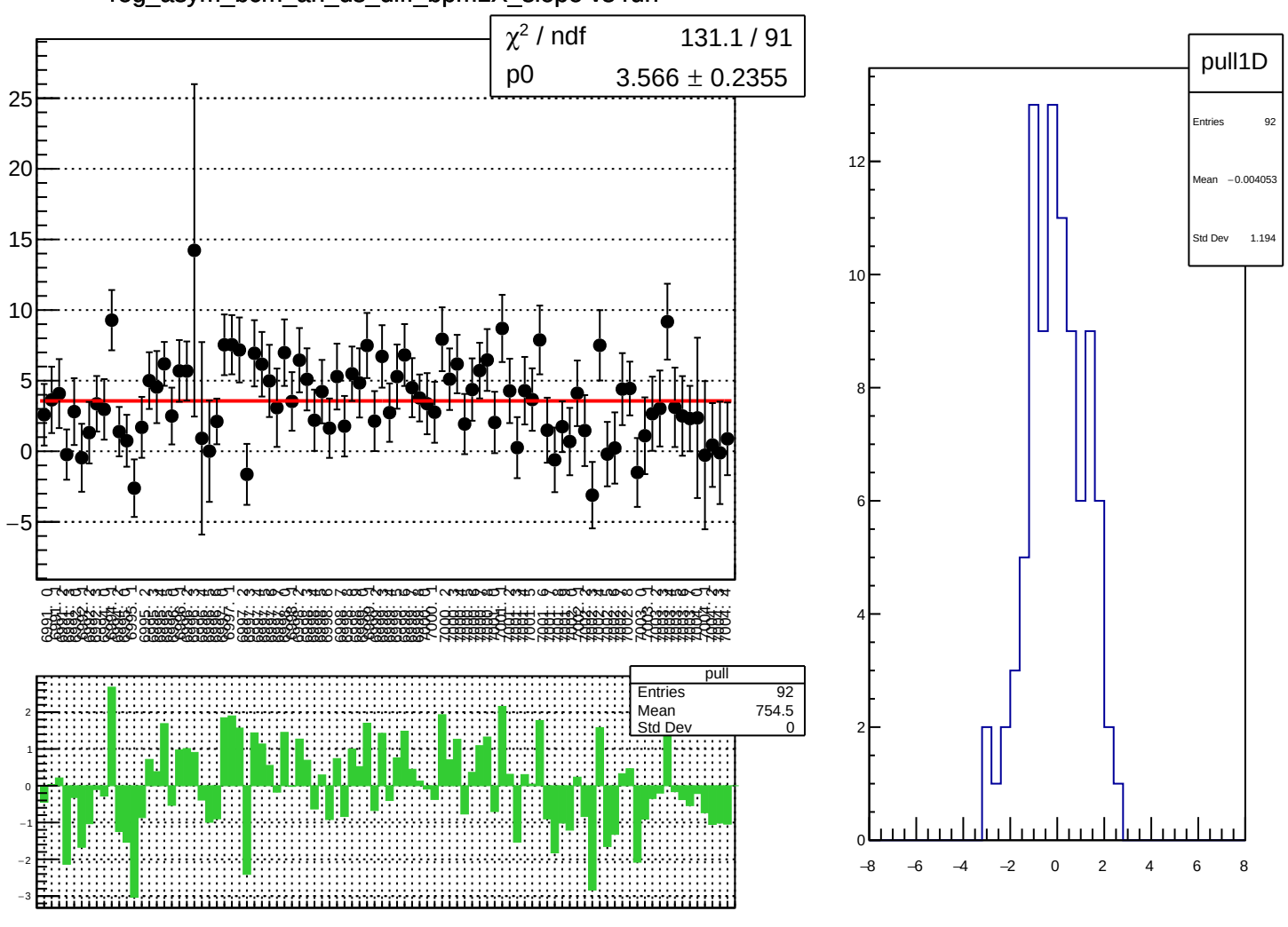

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 130.2 / 91
p0 3.588 ± 0.2356
pull
Entries 92
Mean 643.9
Std Dev 0
pull1D
Entries 92
Mean −0.004812
Std Dev 1.19

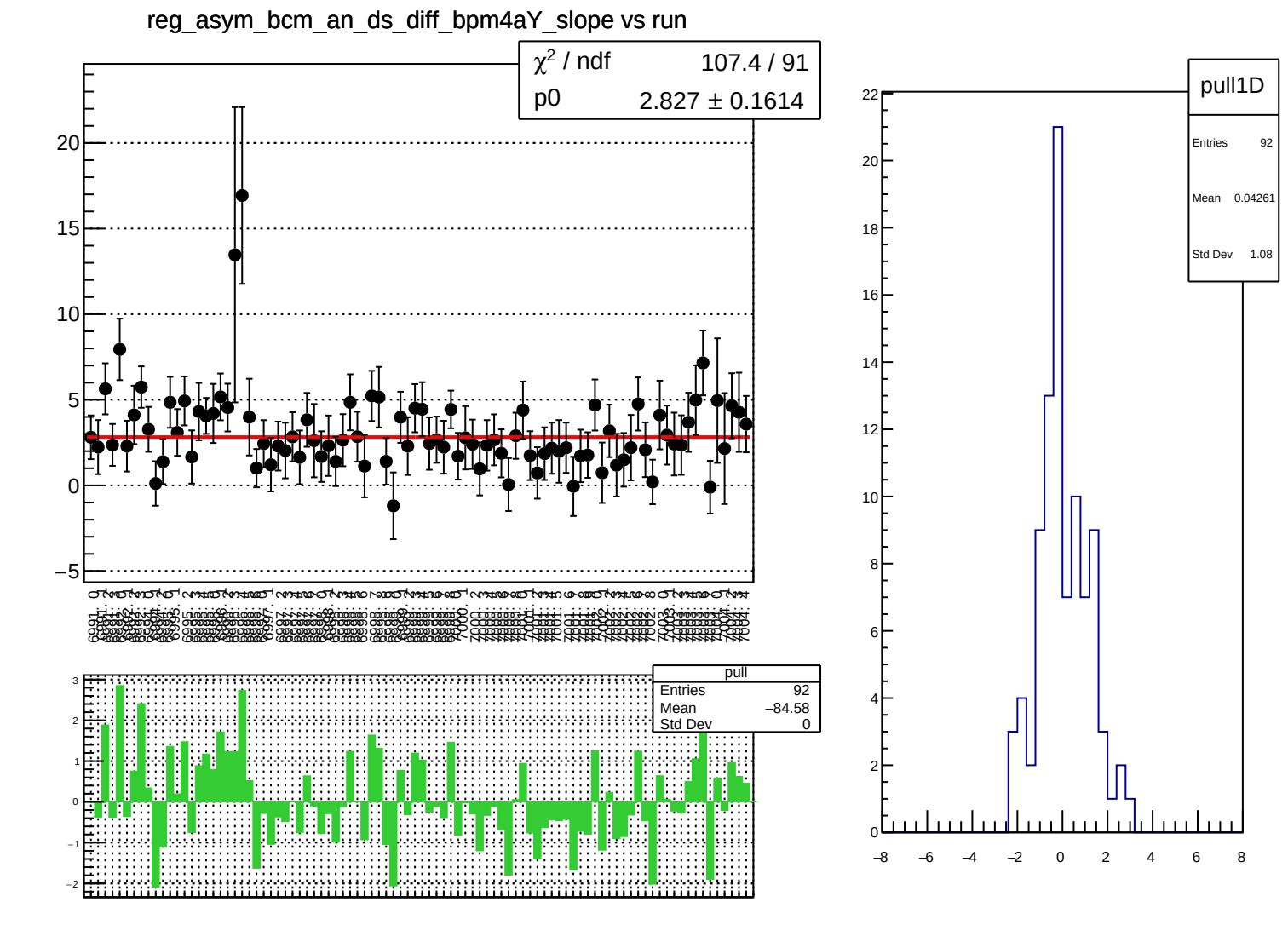

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 107.7 / 91
p0 2.878 ± 0.1615
pull
Entries 92
Mean −80.84
Std Dev 0
pull1D
Entries 92
Mean 0.04425
Std Dev 1.081

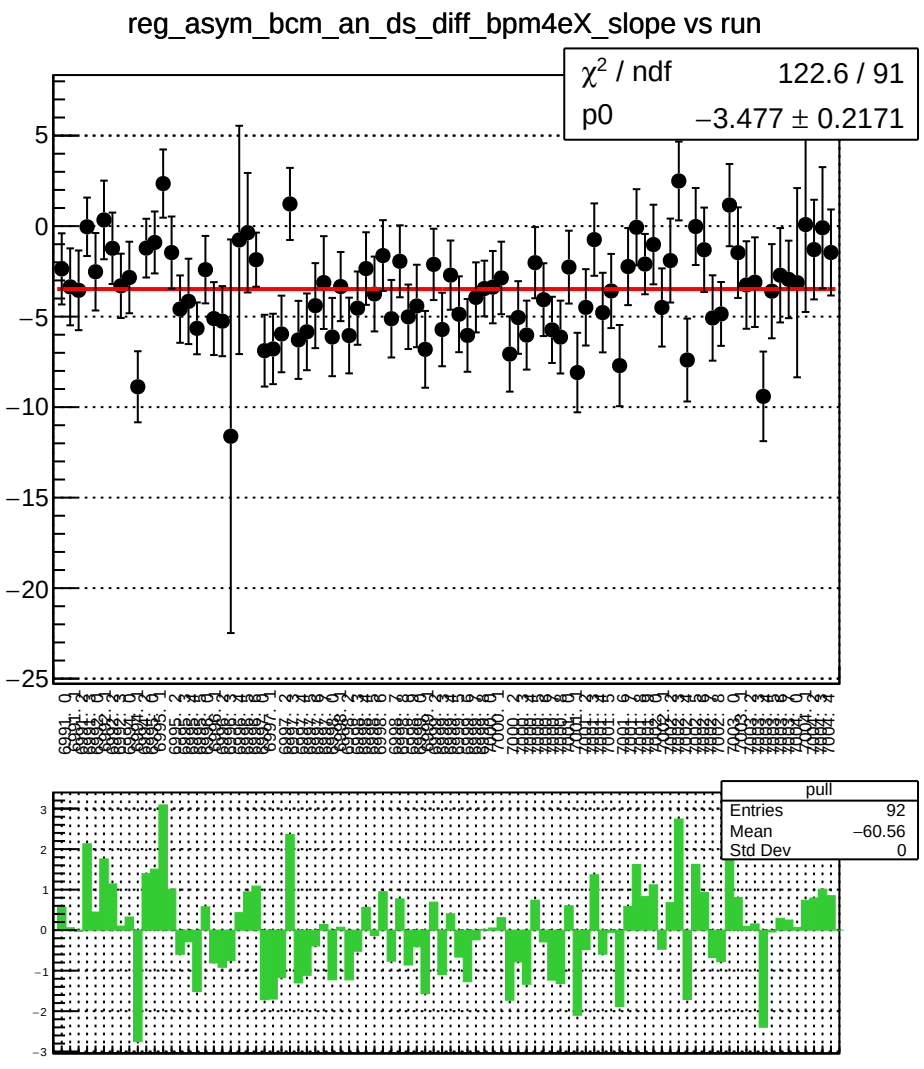

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 122 / 91
p0 −3.498 ± 0.2172
pull
Entries 92
Mean −200.2
Std Dev 0
pull1D
Entries 92
Mean −0.0004216
Std Dev 1.152

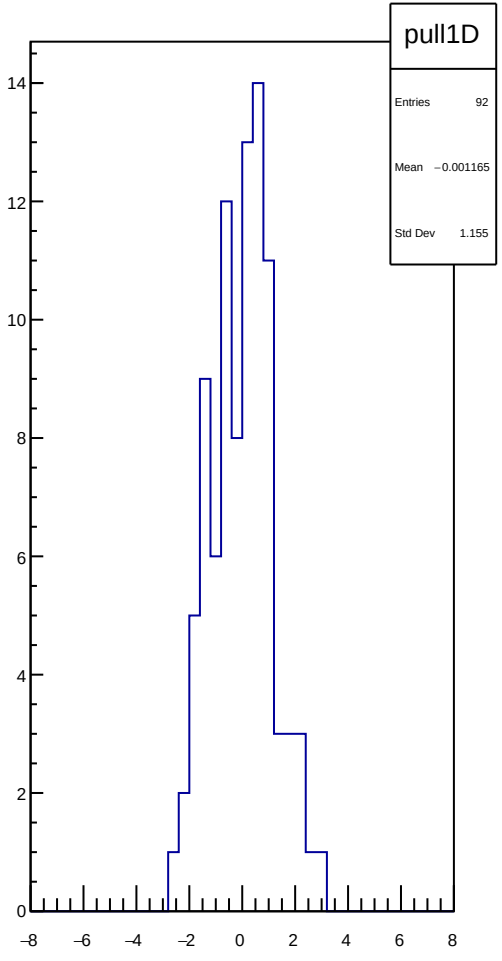

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 116 / 91
p0 −2.718 ± 0.1696
pull
Entries 92
Mean −96.9
Std Dev 0
pull1D
Entries 92
Mean −0.05925
Std Dev 1.122

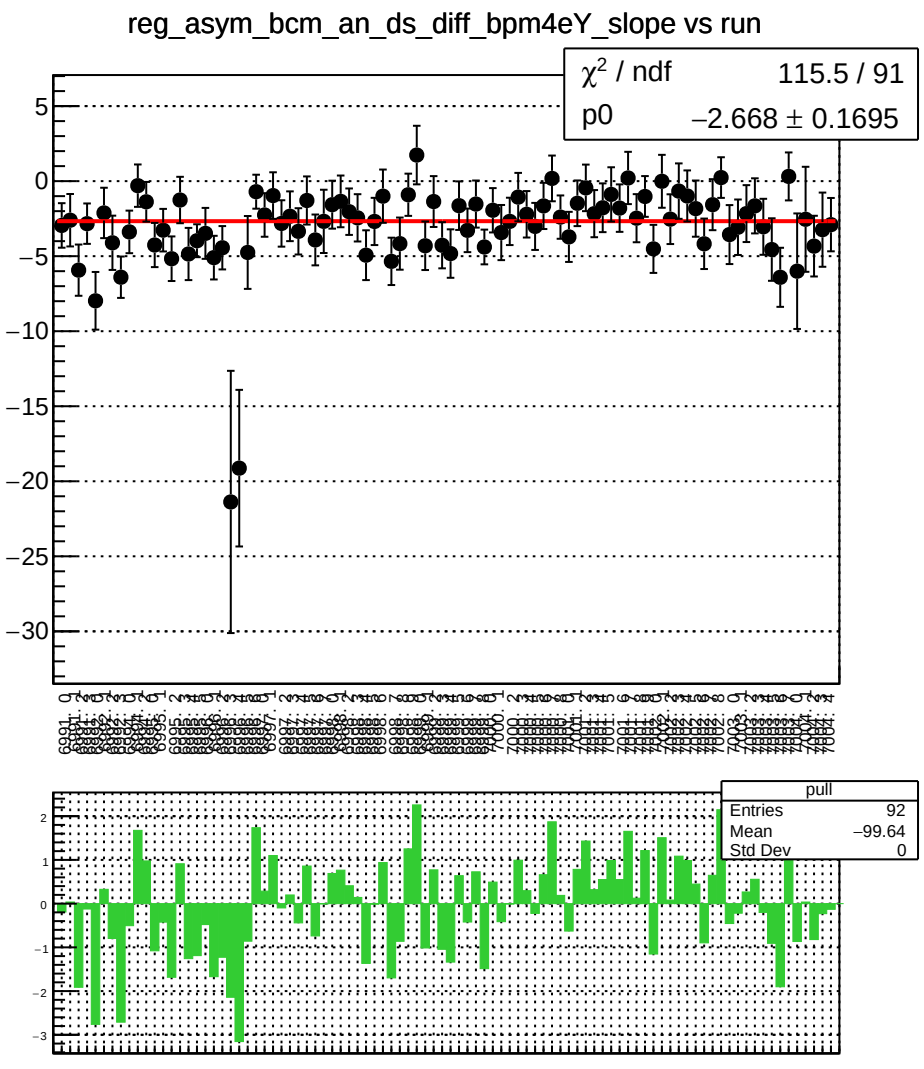

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 43.6 / 91
p0 −0.0406 ± 0.007569
pull
Entries 92
Mean 198.1
Std Dev 0
pull1D
Entries 92
Mean −0.01309
Std Dev 0.6883

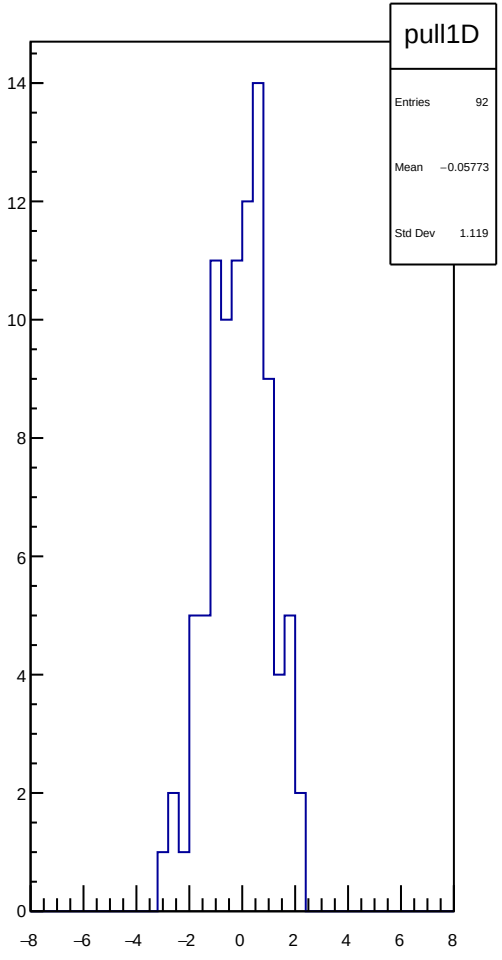

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 131.1 / 91
p0 3.566 ± 0.2355
pull
Entries 92
Mean 754.5
Std Dev 0
pull1D
Entries 92
Mean −0.004053
Std Dev 1.194

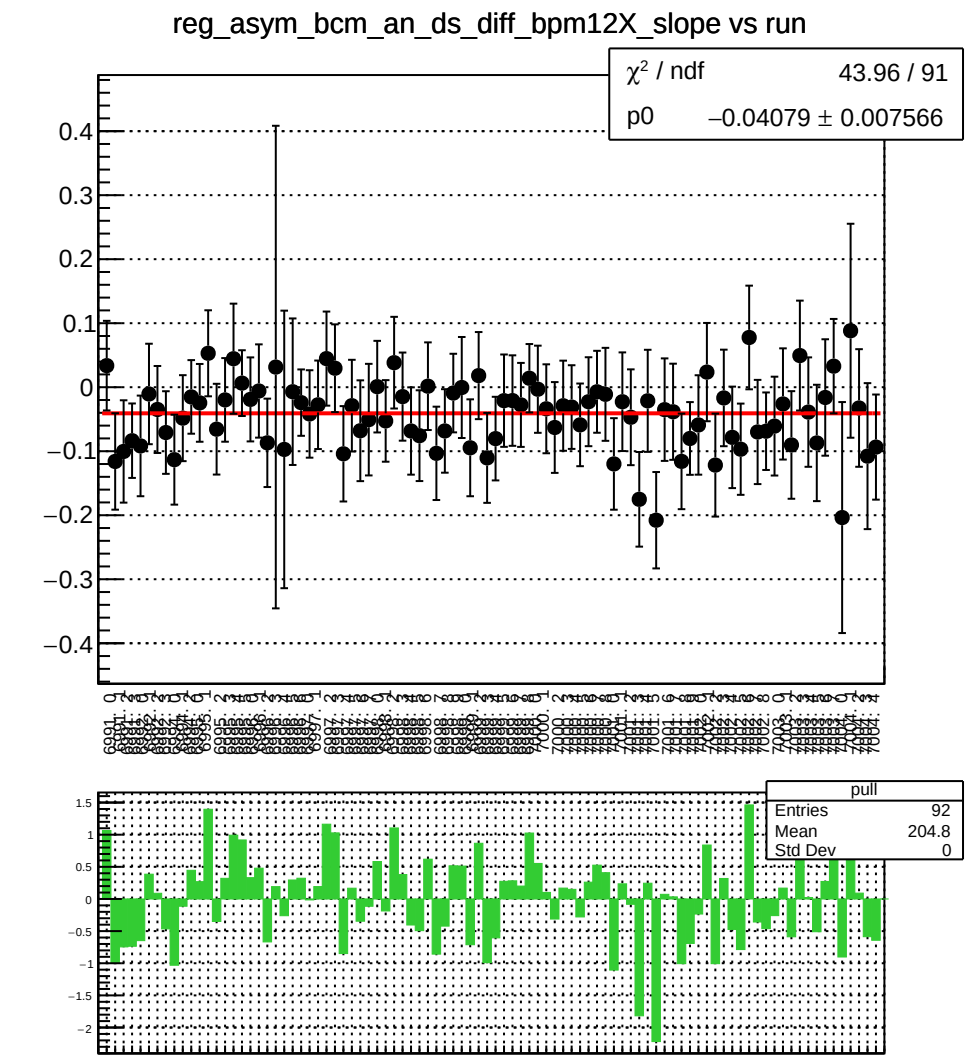

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 107.4 / 91
p0 2.827 ± 0.1614
pull
Entries 92
Mean −84.58
Std Dev 0
pull1D
Entries 92
Mean 0.04261
Std Dev 1.08

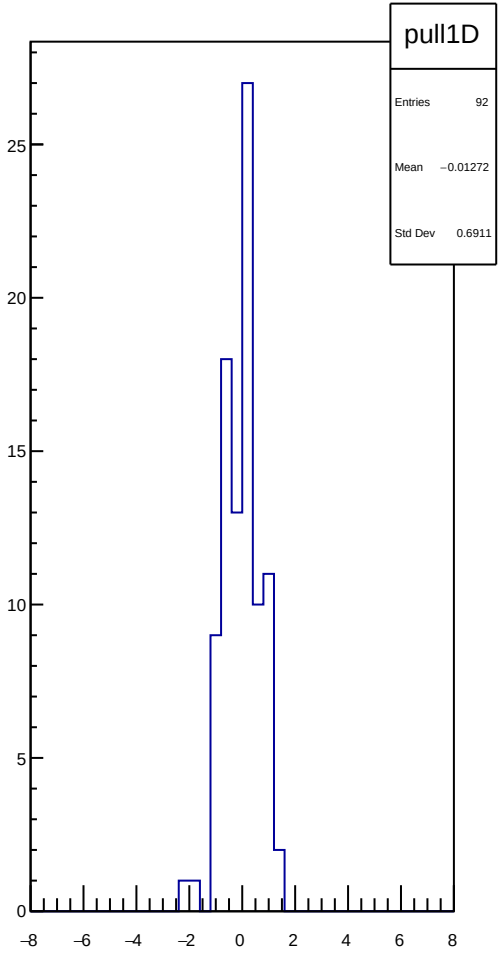

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 122.6 / 91
p0 −3.477 ± 0.2171
pull
Entries 92
Mean −60.56
Std Dev 0

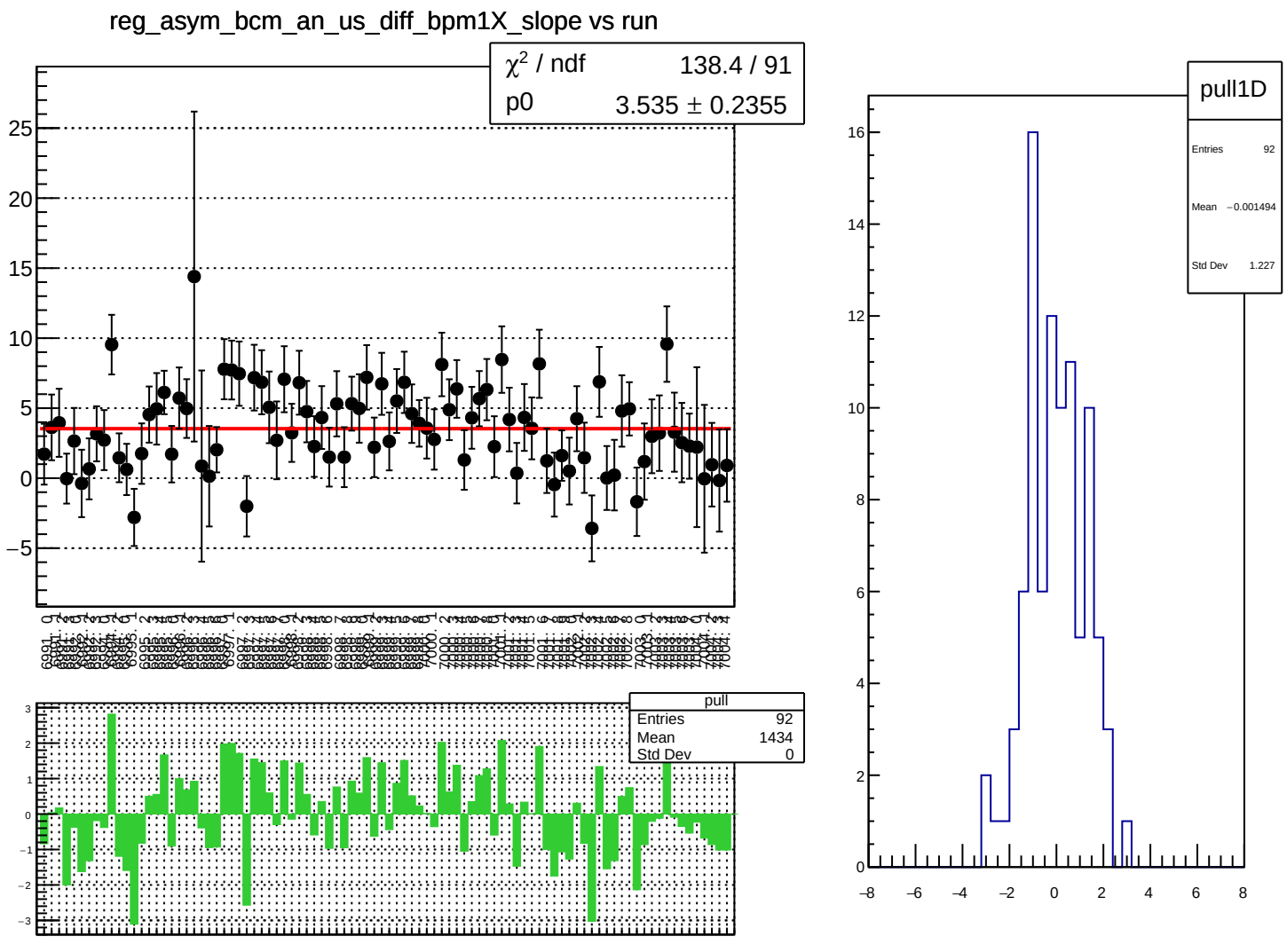

pull1D
Entries 92
Mean −0.001165
Std Dev 1.155

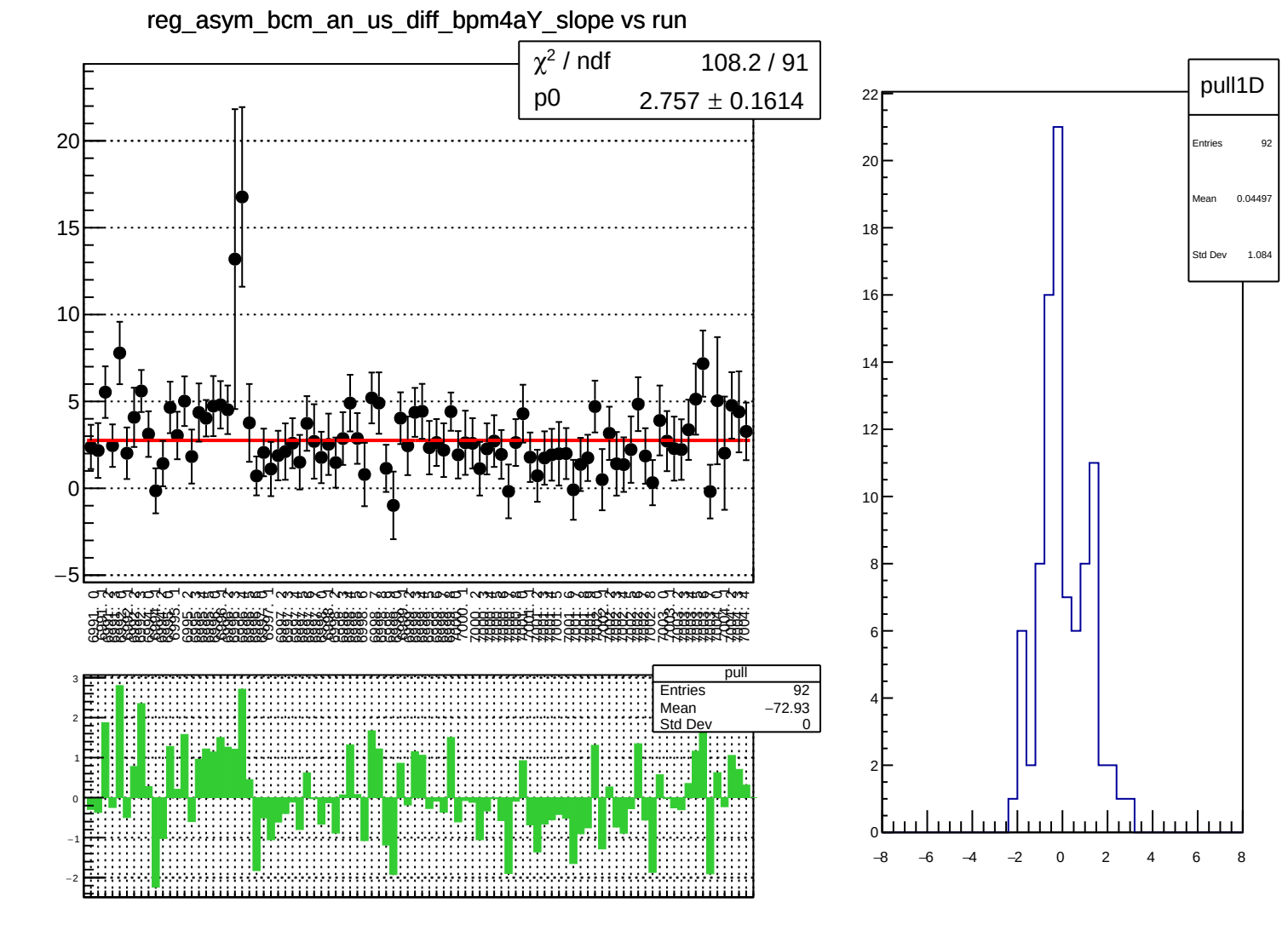

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 115.5 / 91
p0 −2.668 ± 0.1695
pull
Entries 92
Mean −99.64
Std Dev 0

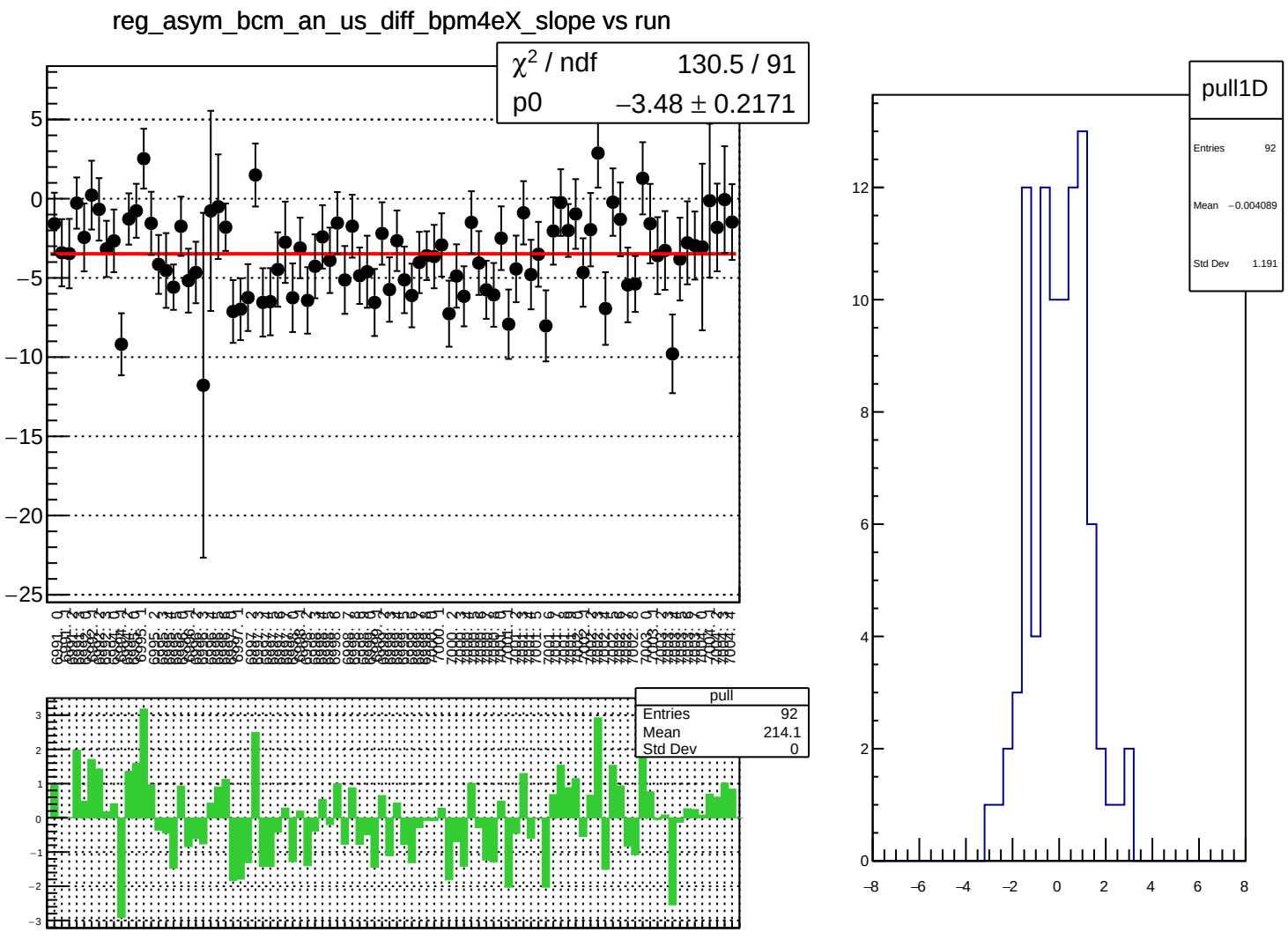

pull1D
Entries 92
Mean −0.05773
Std Dev 1.119

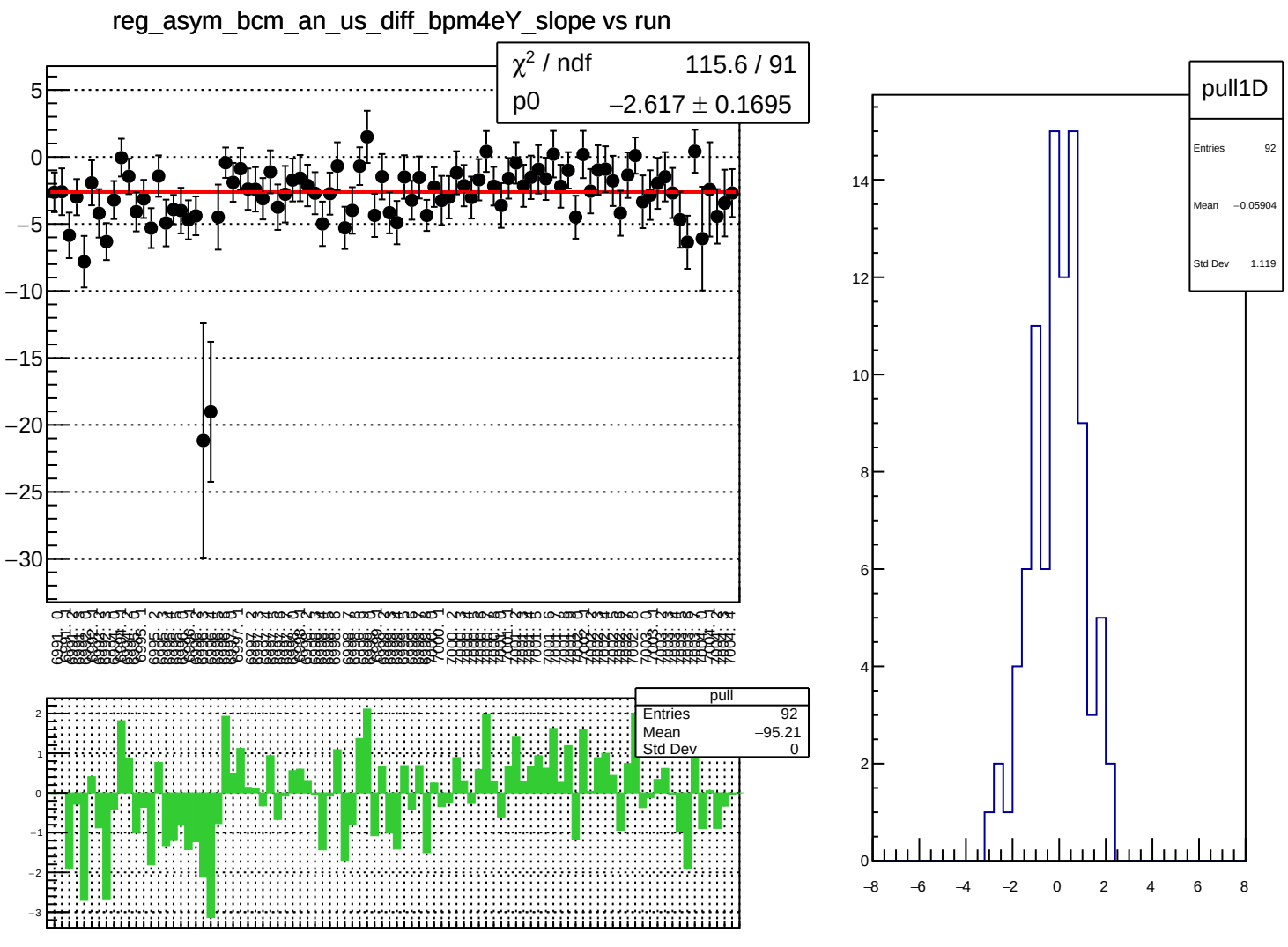

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 43.96 / 91
p0 −0.04079 ± 0.007566
pull
Entries 92
Mean 204.8
Std Dev 0

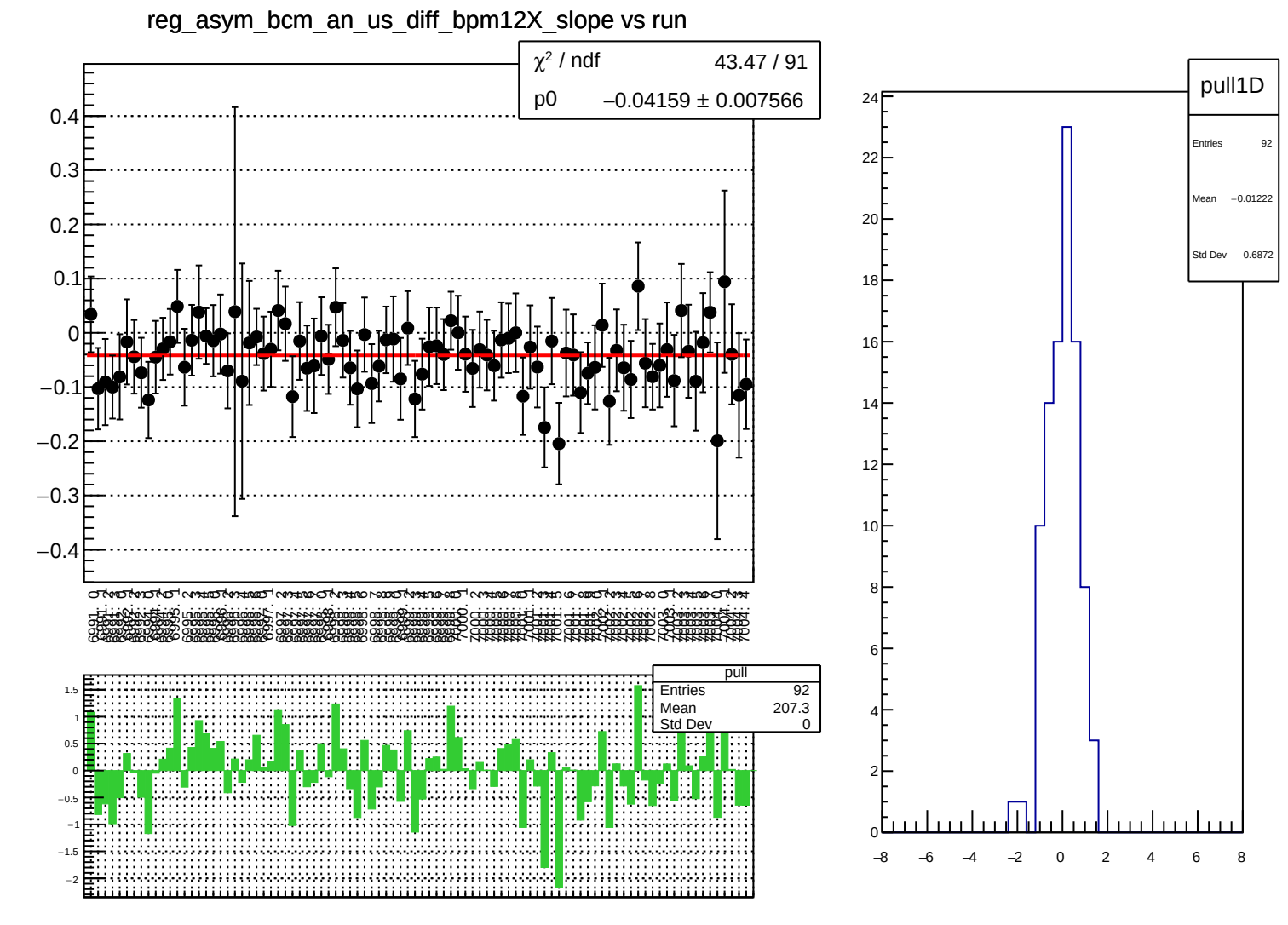

pull1D
Entries 92
Mean −0.01272
Std Dev 0.6911

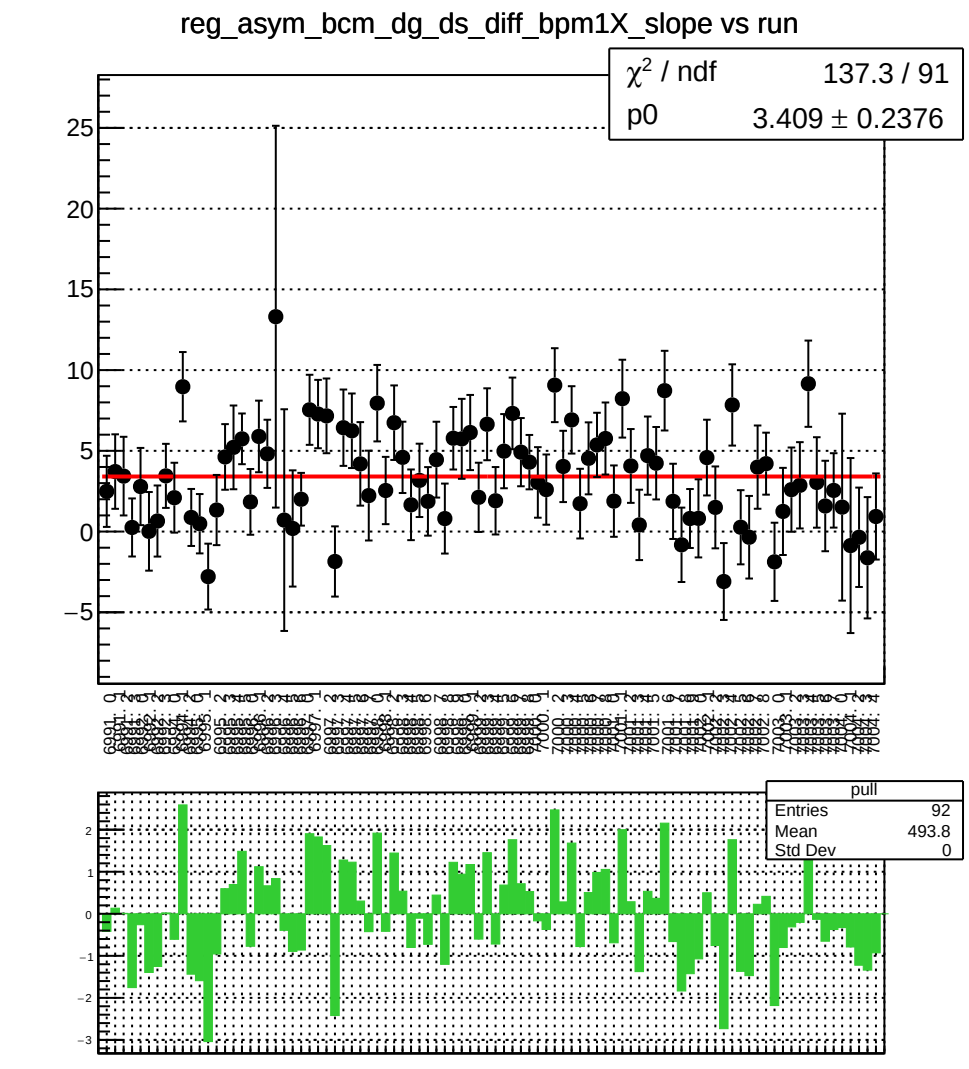

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 138.4 / 91
p0 3.535 ± 0.2355
pull
Entries 92
Mean 1434
Std Dev 0
pull1D
Entries 92
Mean −0.001494
Std Dev 1.227

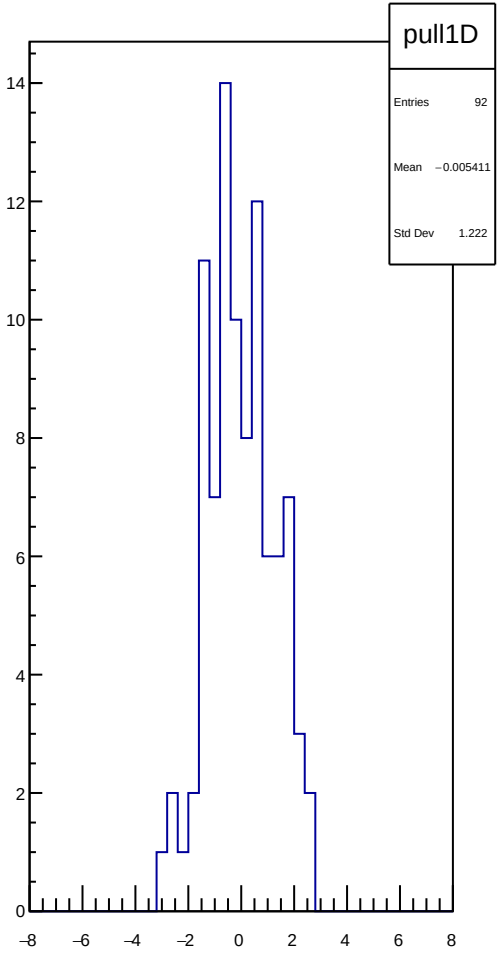

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 108.2 / 91
p0 2.757 ± 0.1614
pull
Entries 92
Mean −72.93
Std Dev 0
pull1D
Entries 92
Mean 0.04497
Std Dev 1.084

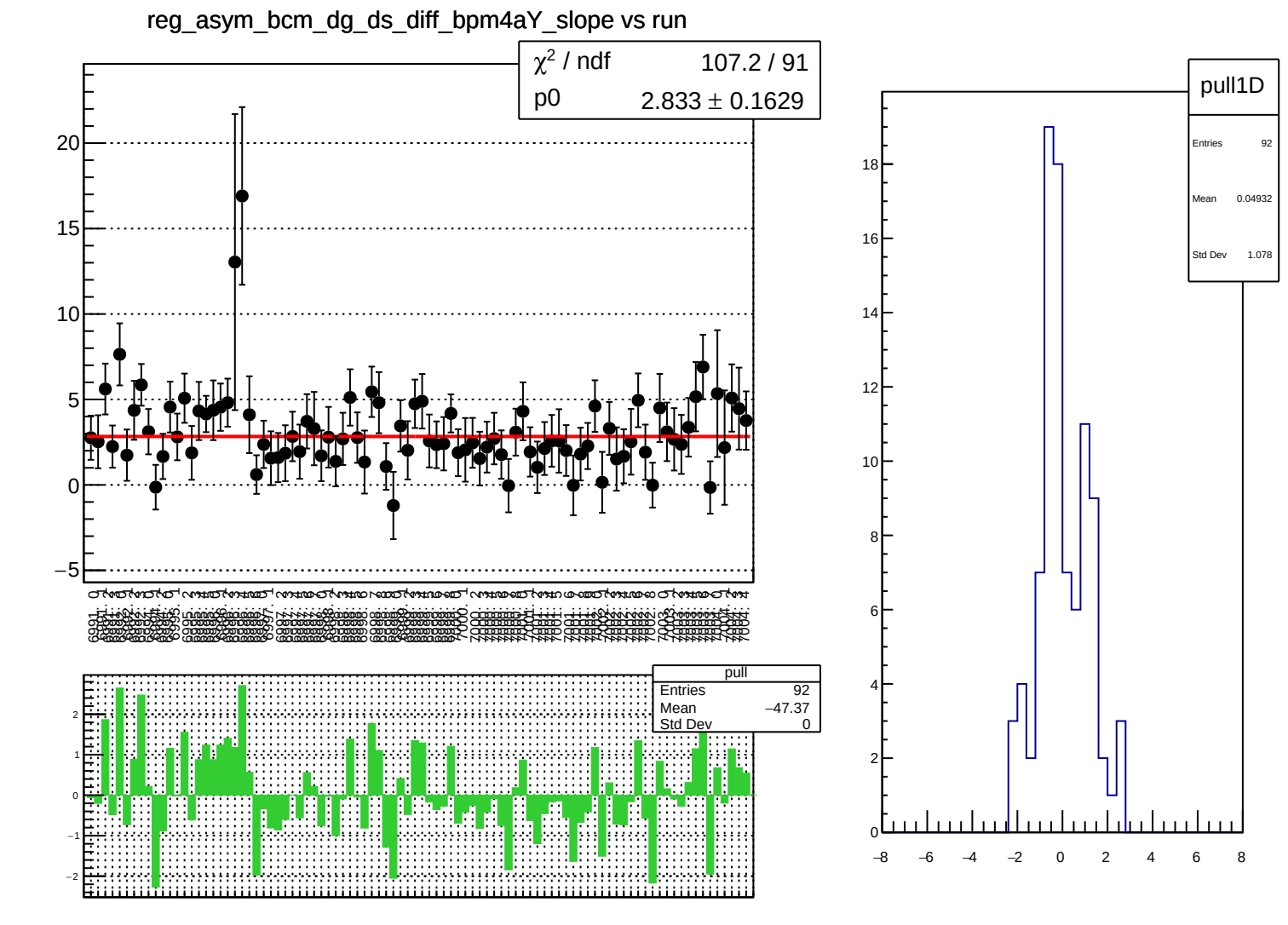

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 130.5 / 91
p0 −3.48 ± 0.2171
pull
Entries 92
Mean 214.1
Std Dev 0
pull1D
Entries 92
Mean −0.004089
Std Dev 1.191

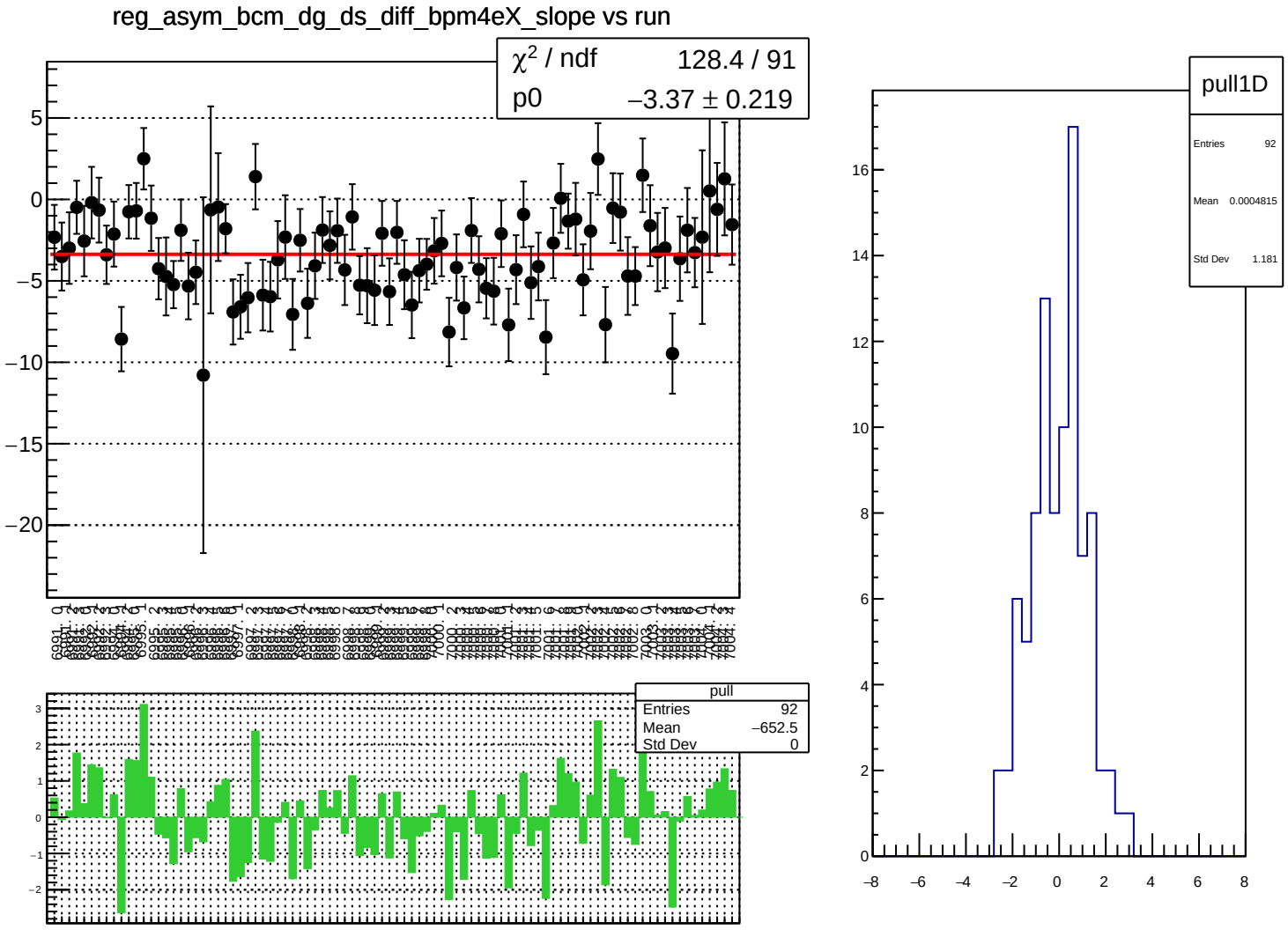

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 115.6 / 91
p0 −2.617 ± 0.1695
pull
Entries 92
Mean −95.21
Std Dev 0
pull1D
Entries 92
Mean −0.05904
Std Dev 1.119

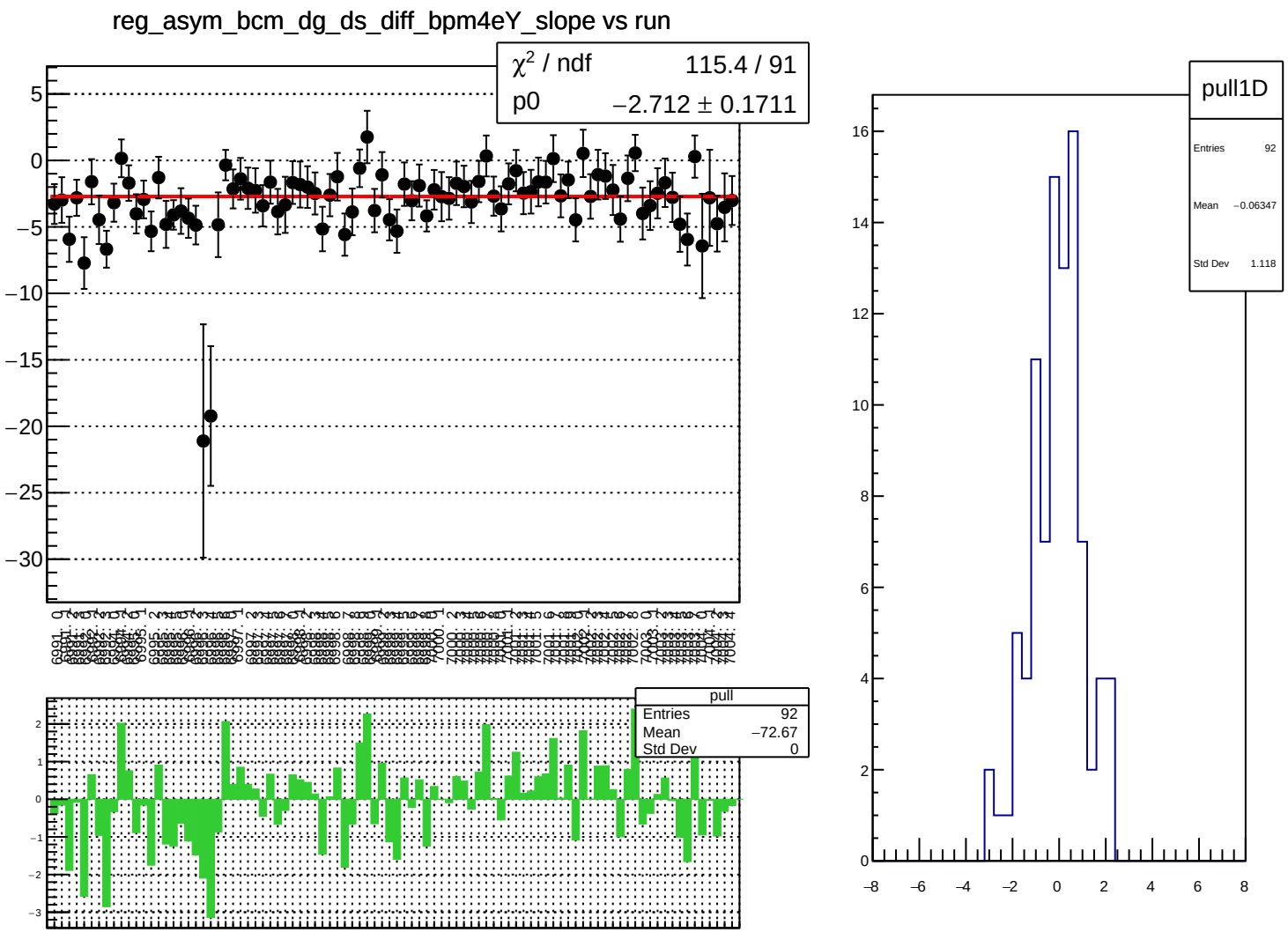

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 43.47 / 91
p0 −0.04159 ± 0.007566
pull
Entries 92
Mean 207.3
Std Dev 0
pull1D
Entries 92
Mean −0.01222
Std Dev 0.6872

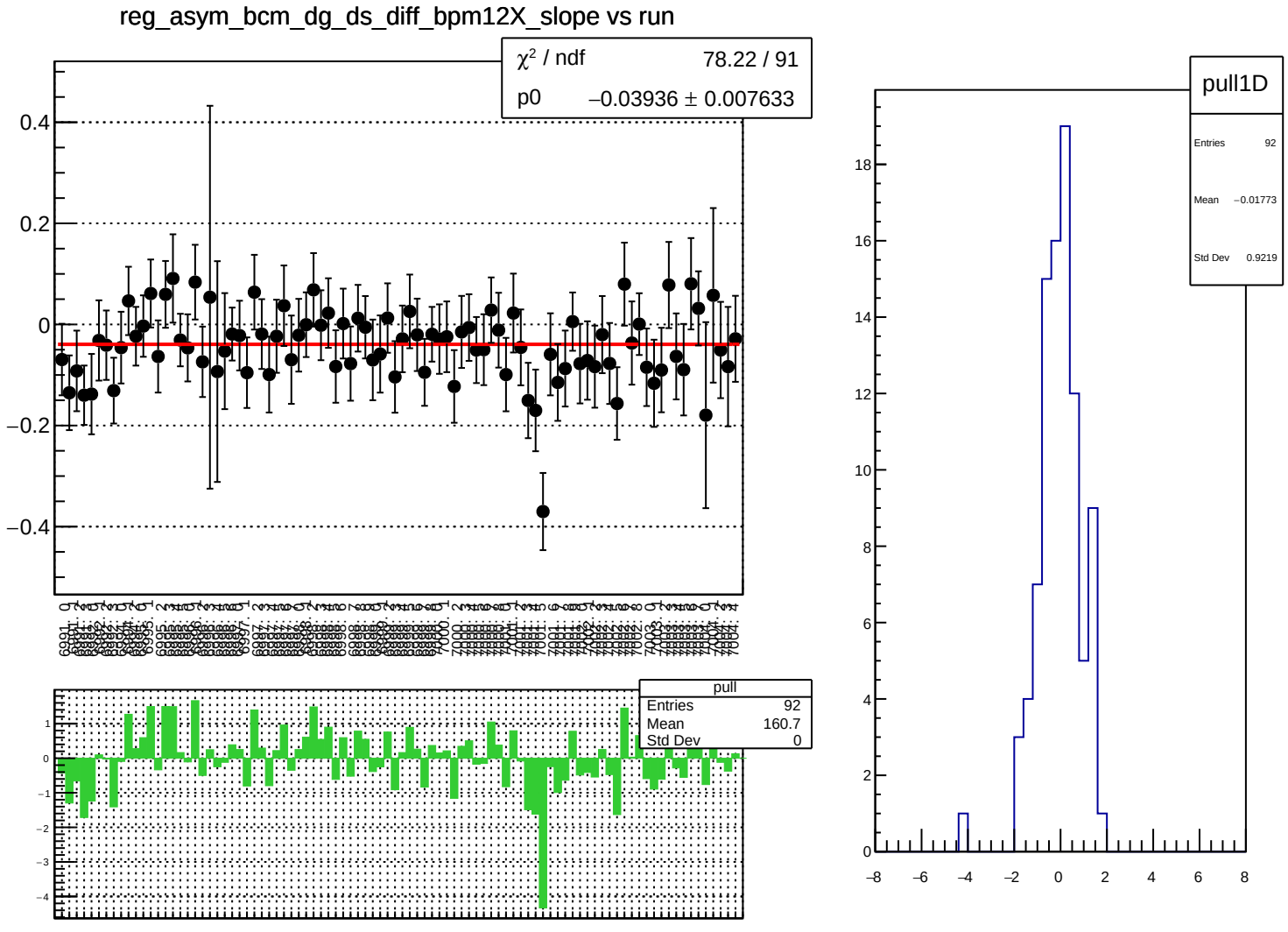

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 137.3 / 91
p0 3.409 ± 0.2376
pull
Entries 92
Mean 493.8
Std Dev 0

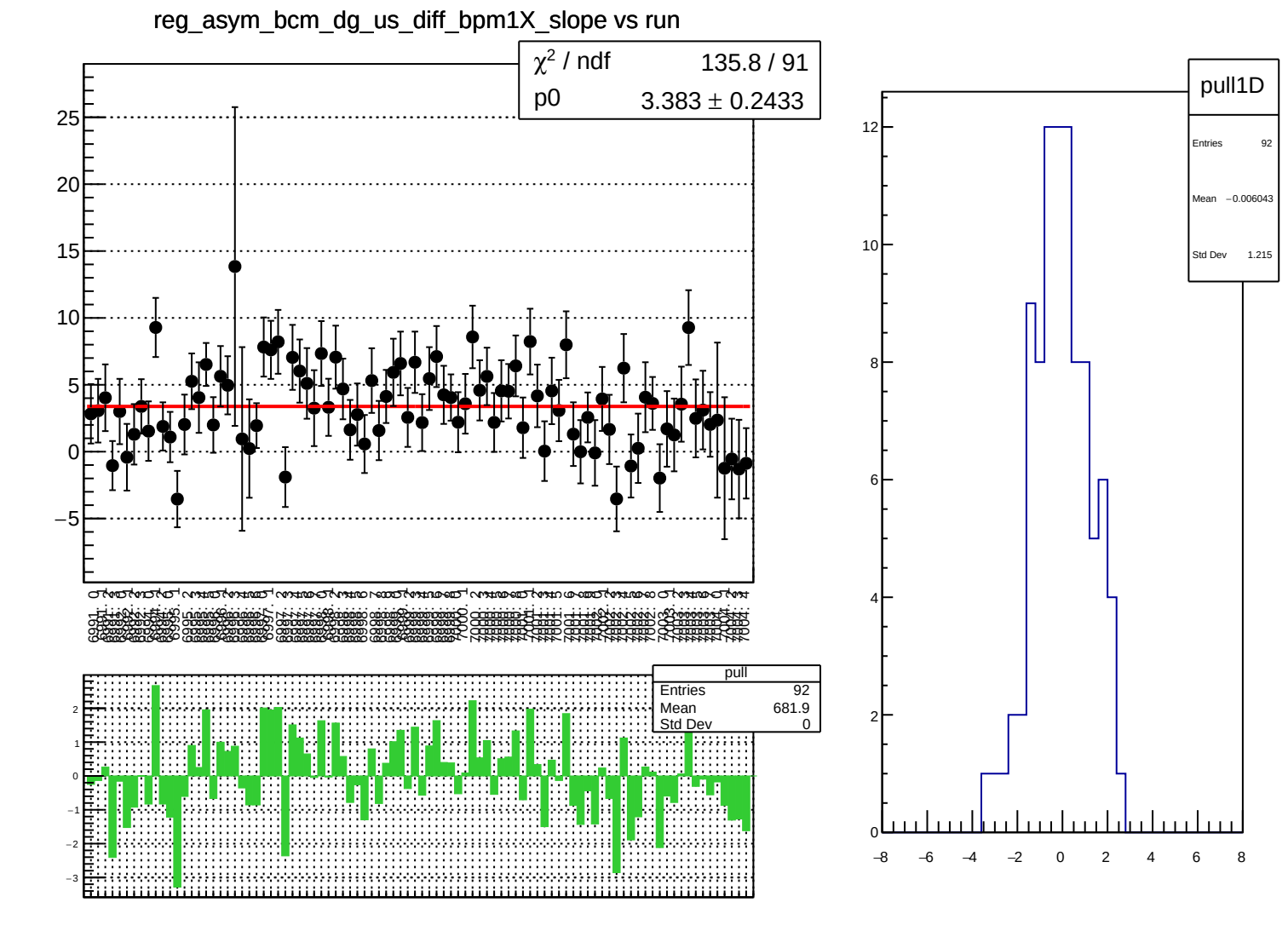

pull1D
Entries 92
Mean −0.005411
Std Dev 1.222

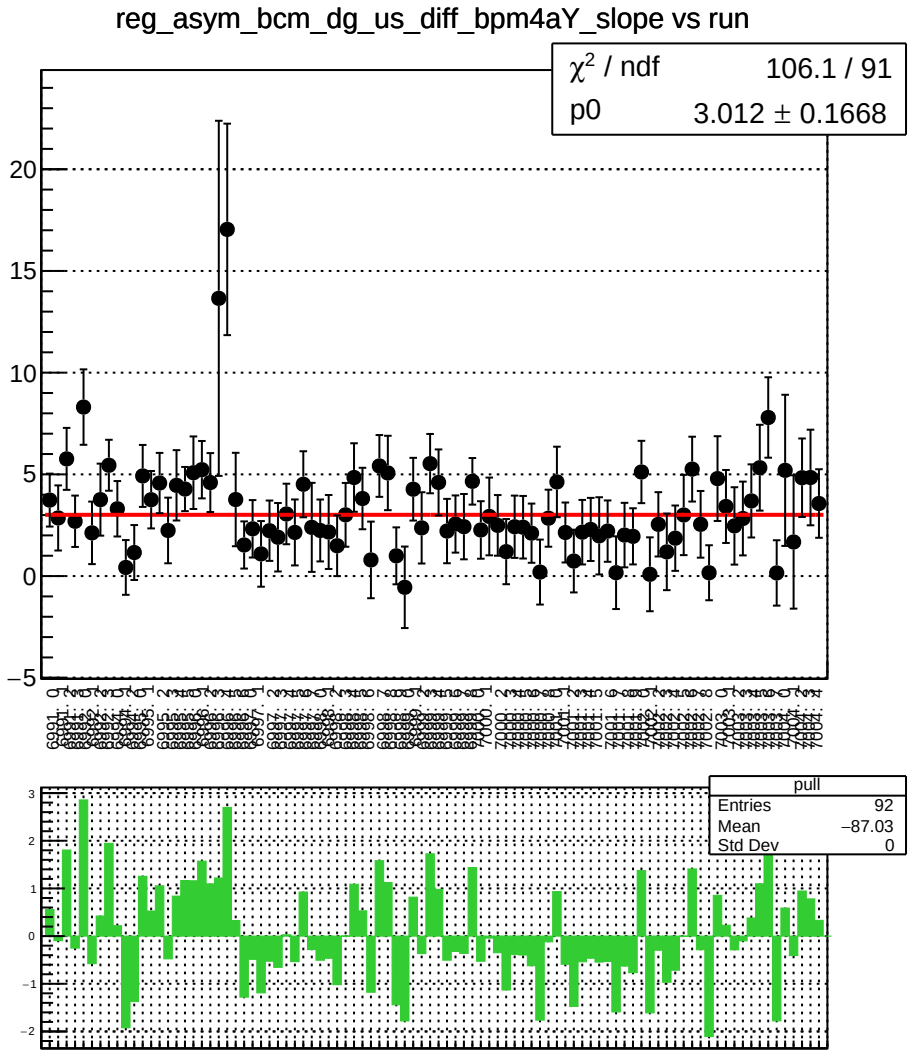

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 107.2 / 91
p0 2.833 ± 0.1629
pull
Entries 92
Mean −47.37
Std Dev 0
pull1D
Entries 92
Mean 0.04932
Std Dev 1.078

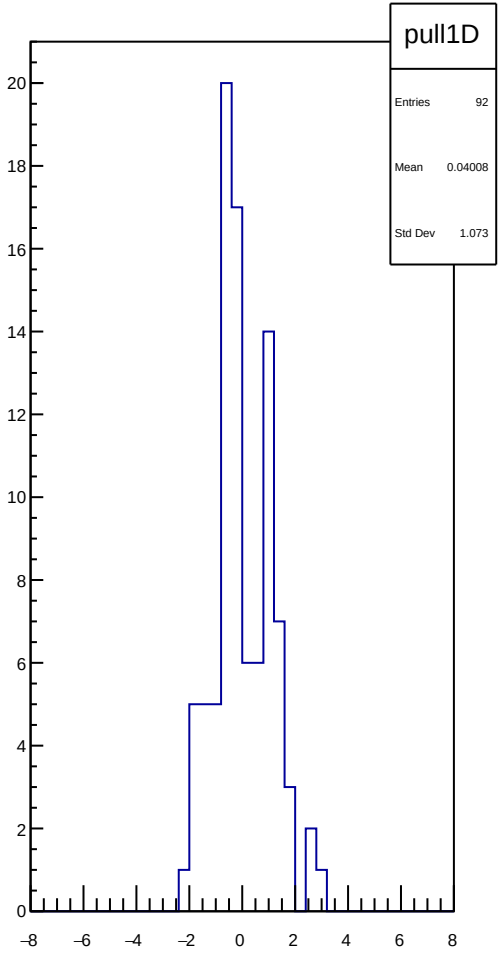

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 128.4 / 91
p0 −3.37 ± 0.219
pull
Entries 92
Mean −652.5
Std Dev 0
pull1D
Entries 92
Mean 0.0004815
Std Dev 1.181

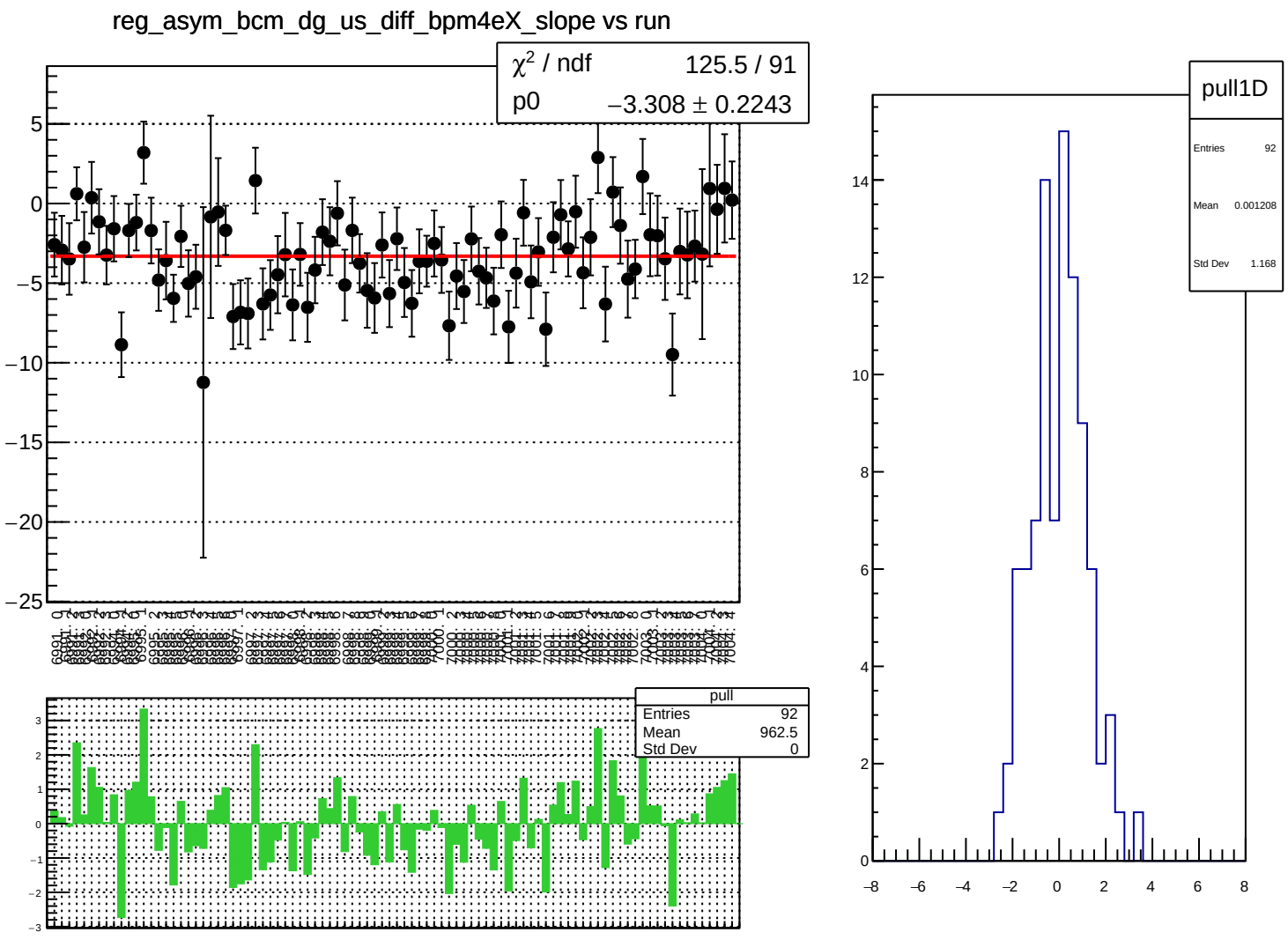

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 115.4 / 91
p0 −2.712 ± 0.1711
pull
Entries 92
Mean −72.67
Std Dev 0
pull1D
Entries 92
Mean −0.06347
Std Dev 1.118

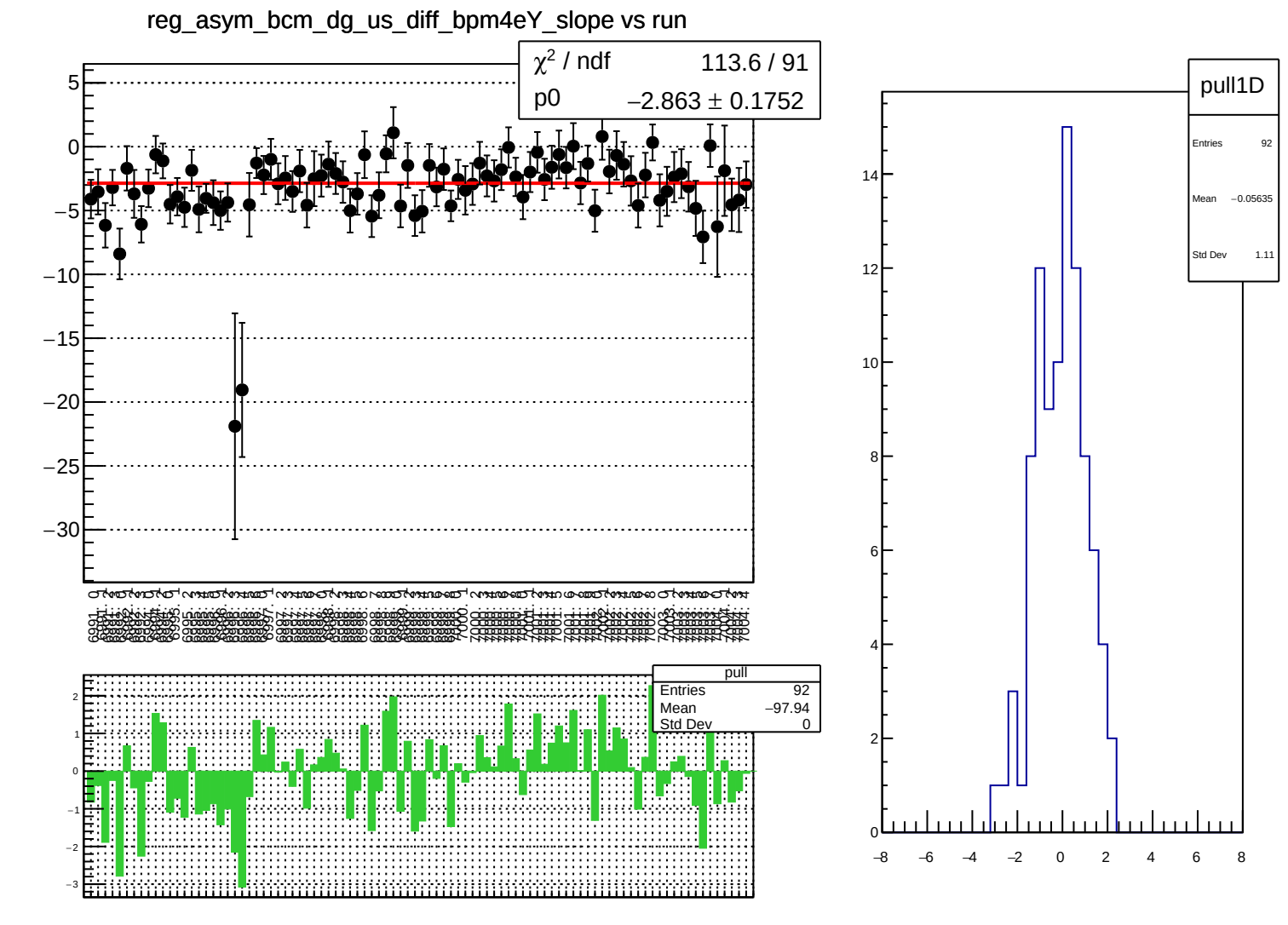

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 78.22 / 91
p0 −0.03936 ± 0.007633
pull
Entries 92
Mean 160.7
Std Dev 0
pull1D
Entries 92
Mean −0.01773
Std Dev 0.9219

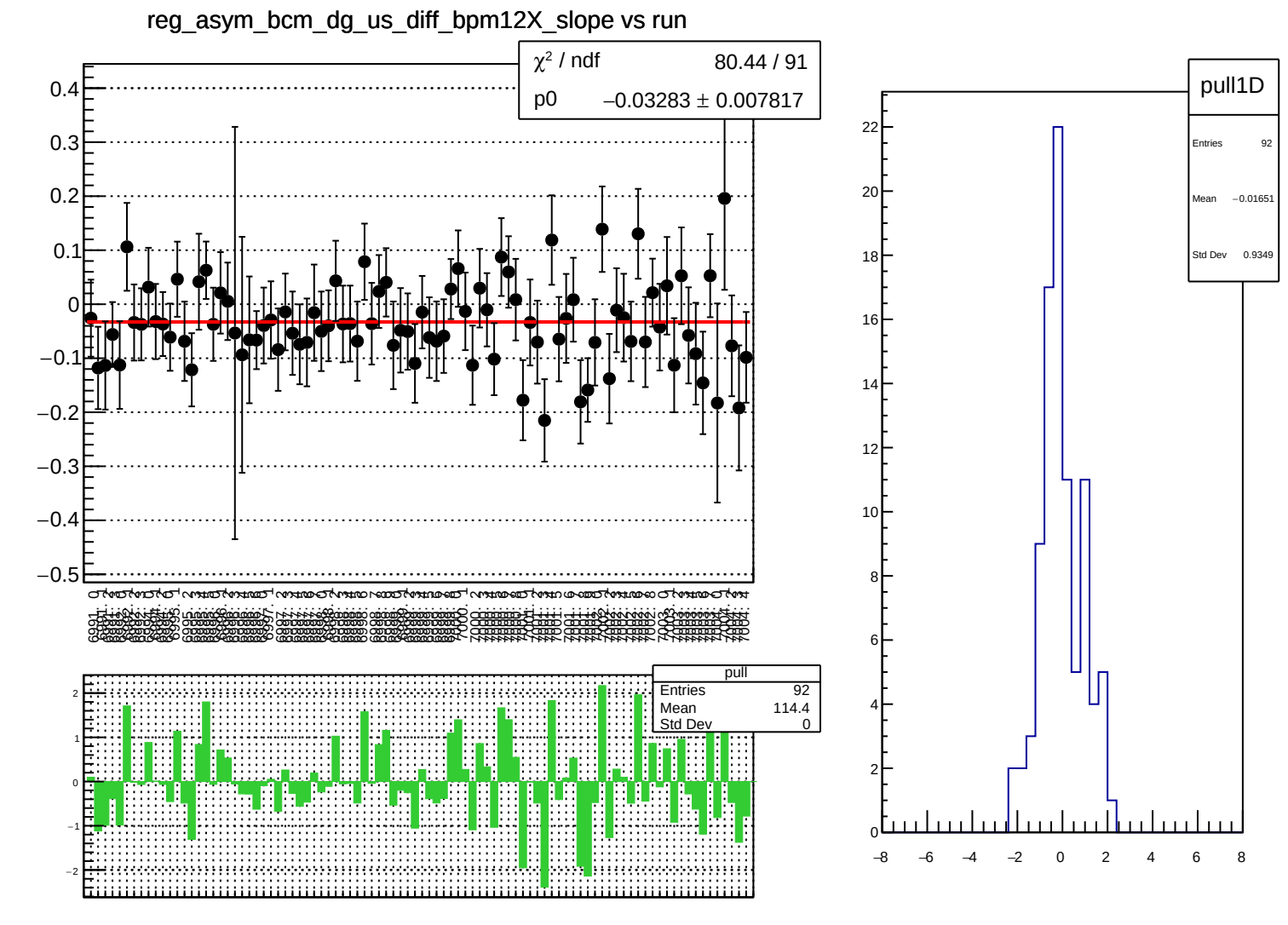

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 135.8 / 91
p0 3.383 ± 0.2433
pull
Entries 92
Mean 681.9
Std Dev 0
pull1D
Entries 92
Mean −0.006043
Std Dev 1.215

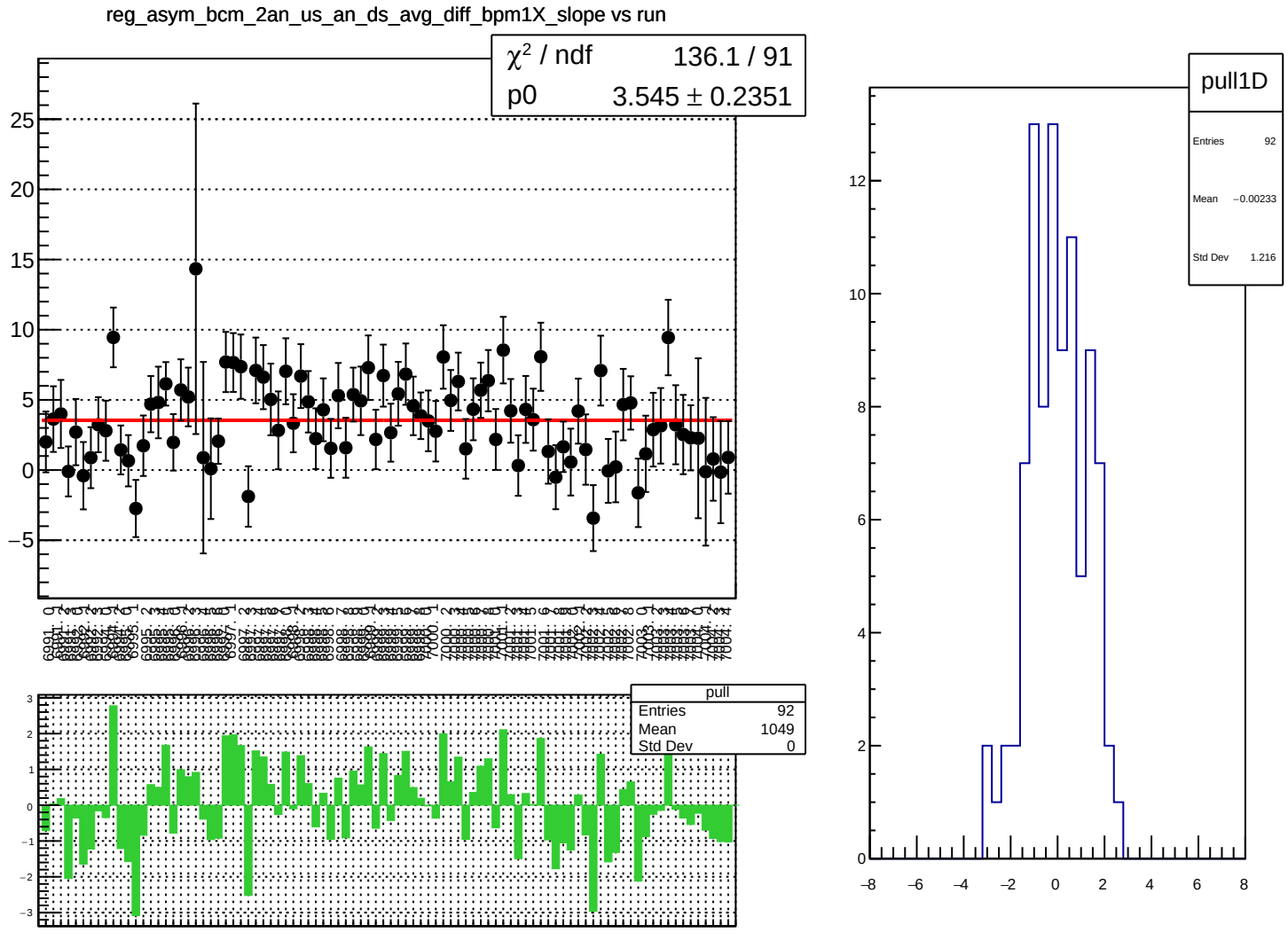

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 106.1 / 91
p0 3.012 ± 0.1668
pull
Entries 92
Mean −87.03
Std Dev 0

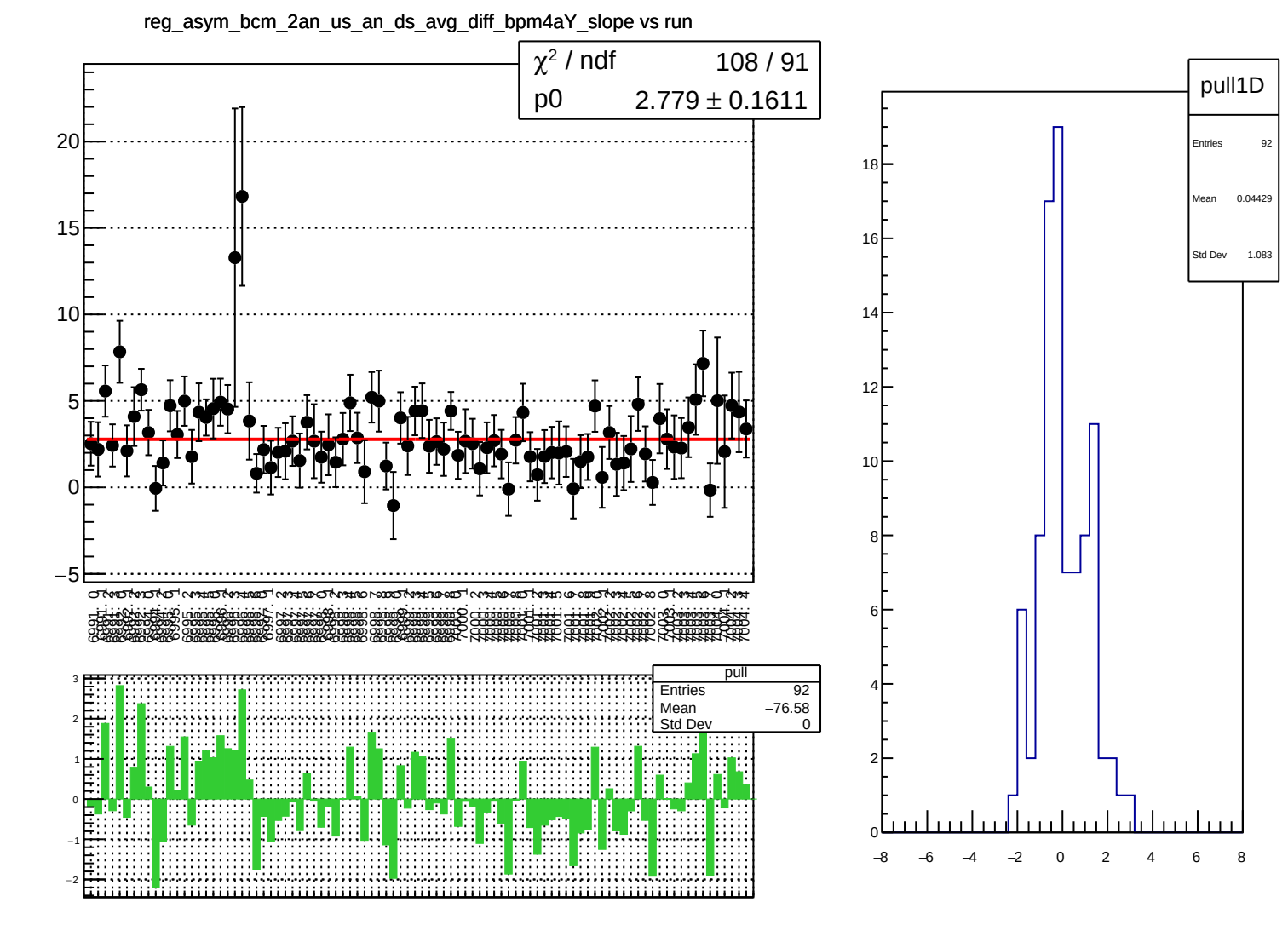

pull1D
Entries 92
Mean 0.04008
Std Dev 1.073

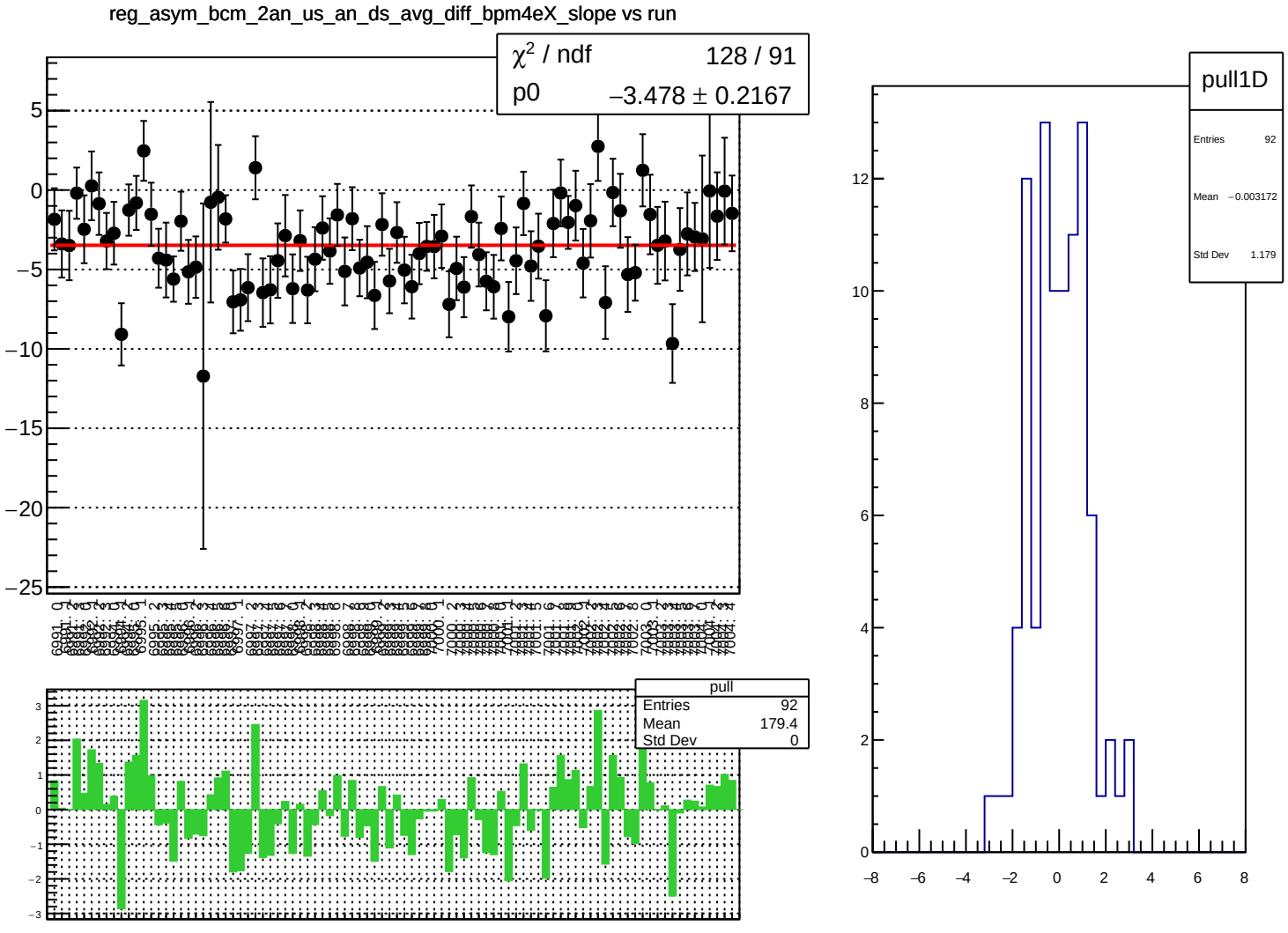

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 125.5 / 91
p0 −3.308 ± 0.2243
pull
Entries 92
Mean 962.5
Std Dev 0
pull1D
Entries 92
Mean 0.001208
Std Dev 1.168

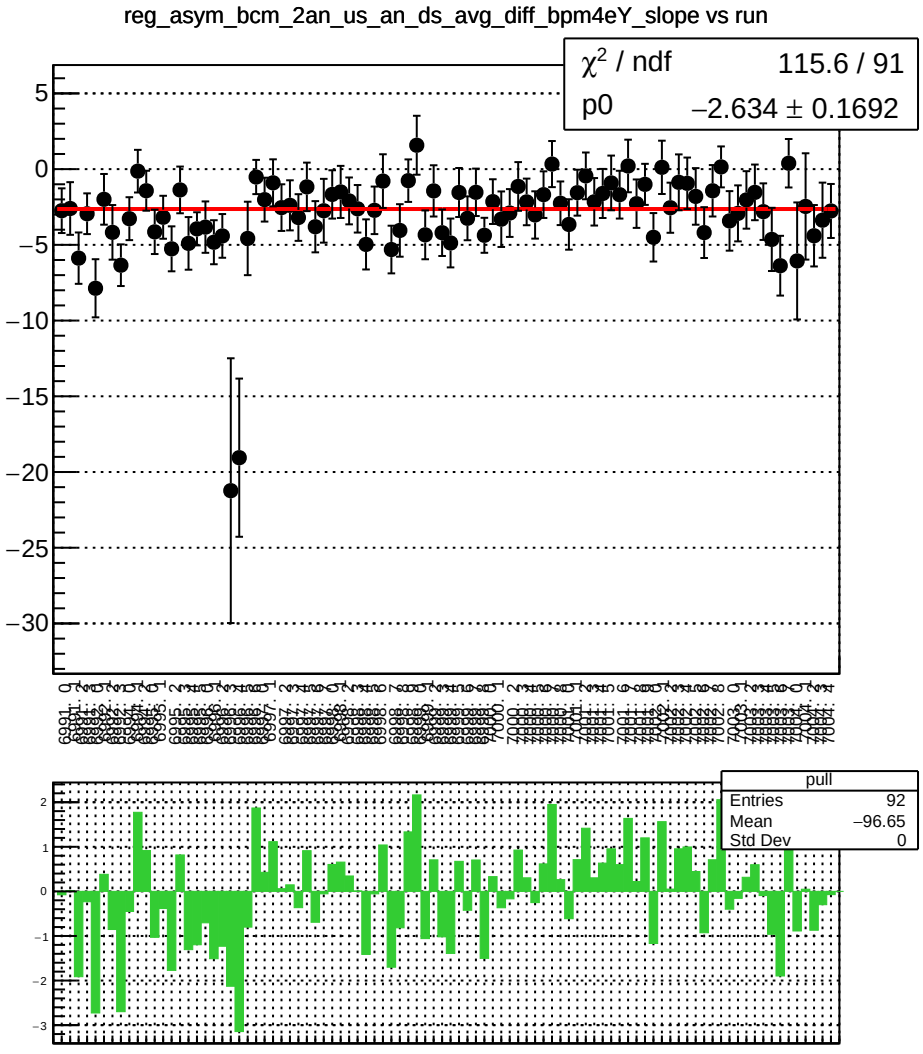

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 113.6 / 91
p0 −2.863 ± 0.1752
pull
Entries 92
Mean −97.94
Std Dev 0
pull1D
Entries 92
Mean −0.05635
Std Dev 1.11

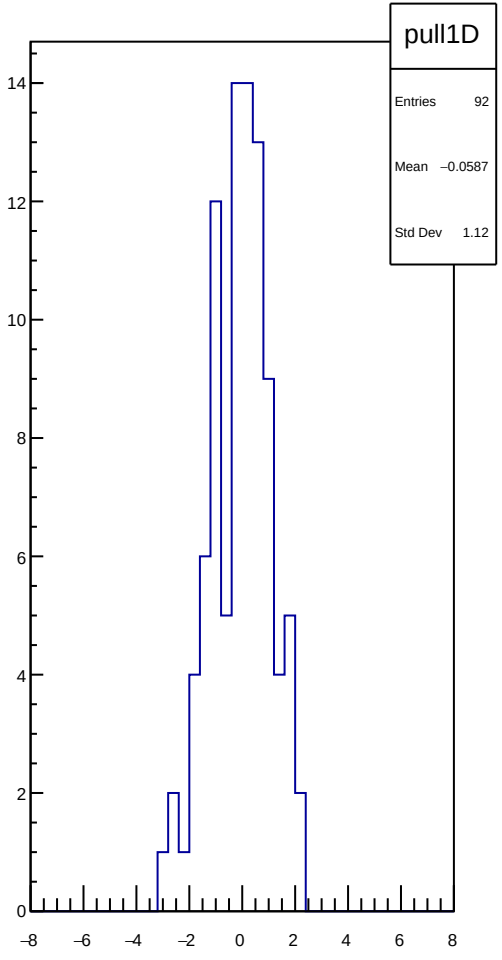

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 80.44 / 91
p0 −0.03283 ± 0.007817
pull
Entries 92
Mean 114.4
Std Dev 0
pull1D
Entries 92
Mean −0.01651
Std Dev 0.9349

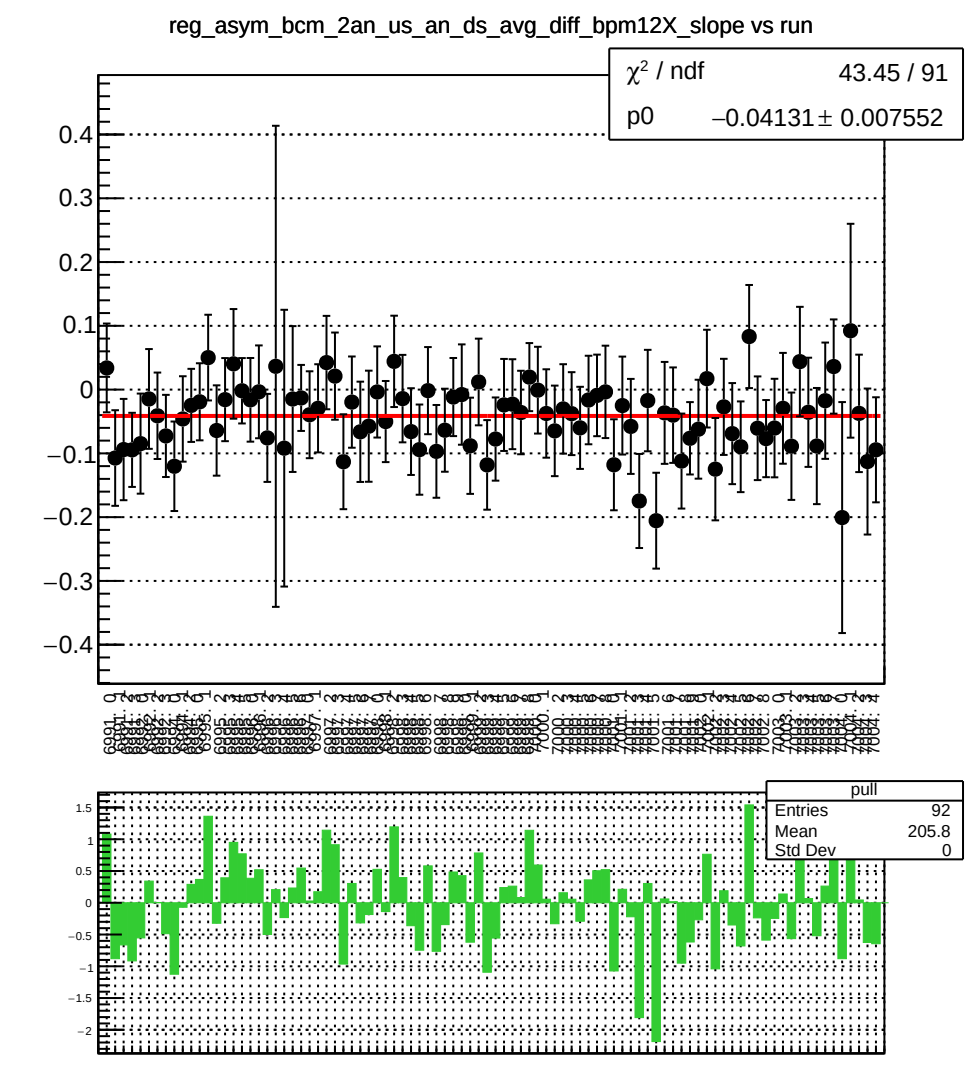

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 136.1 / 91
p0 3.545 ± 0.2351
pull
Entries 92
Mean 1049
Std Dev 0
pull1D
Entries 92
Mean −0.00233
Std Dev 1.216

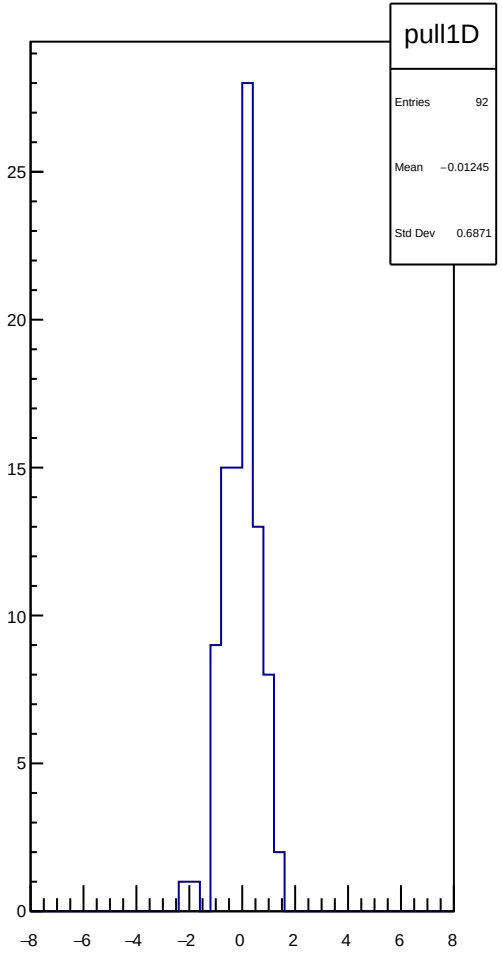

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 108 / 91
p0 2.779 ± 0.1611
pull
Entries 92
Mean −76.58
Std Dev 0
pull1D
Entries 92
Mean 0.04429
Std Dev 1.083

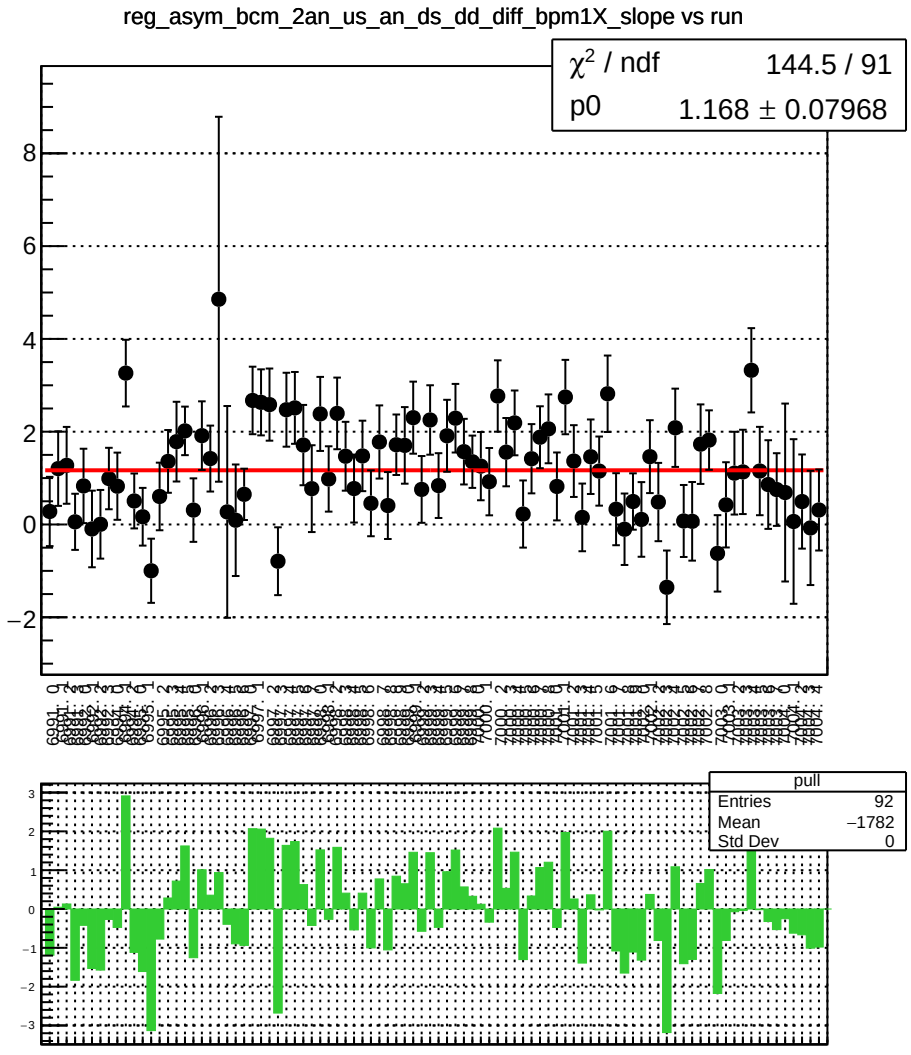

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 128 / 91
p0 −3.478 ± 0.2167
pull
Entries 92
Mean 179.4
Std Dev 0
pull1D
Entries 92
Mean −0.003172
Std Dev 1.179

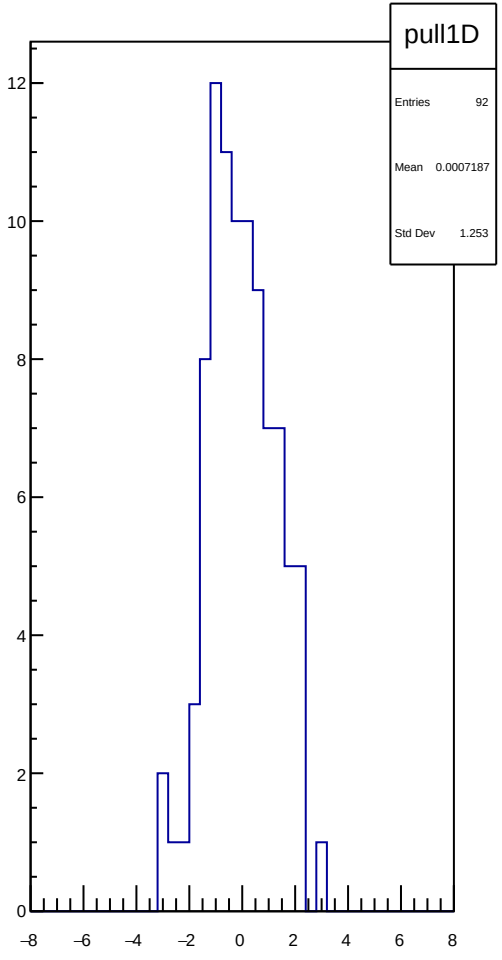

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 115.6 / 91
p0 −2.634 ± 0.1692
pull
Entries 92
Mean −96.65
Std Dev 0

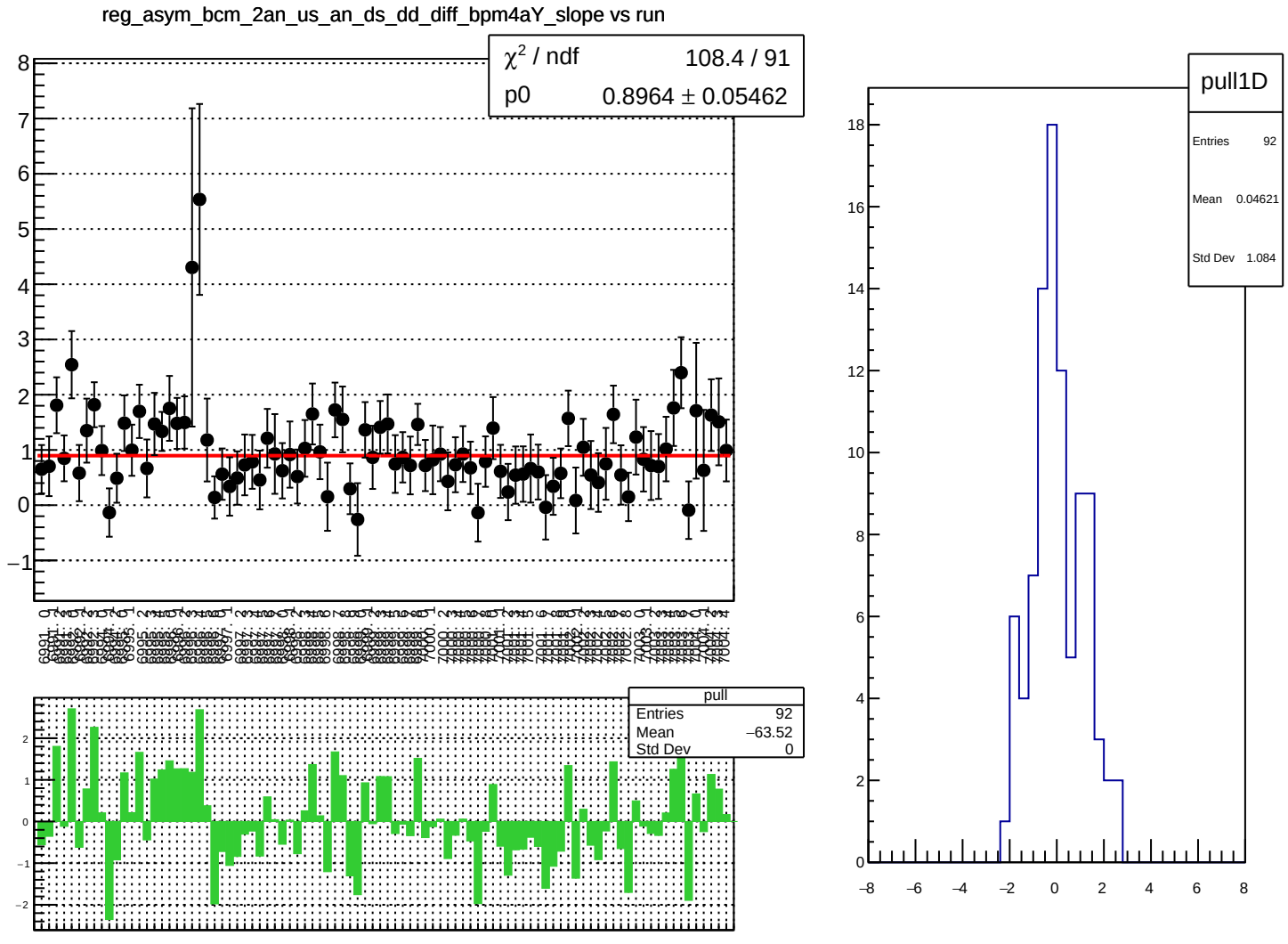

pull1D
Entries 92
Mean −0.0587
Std Dev 1.12

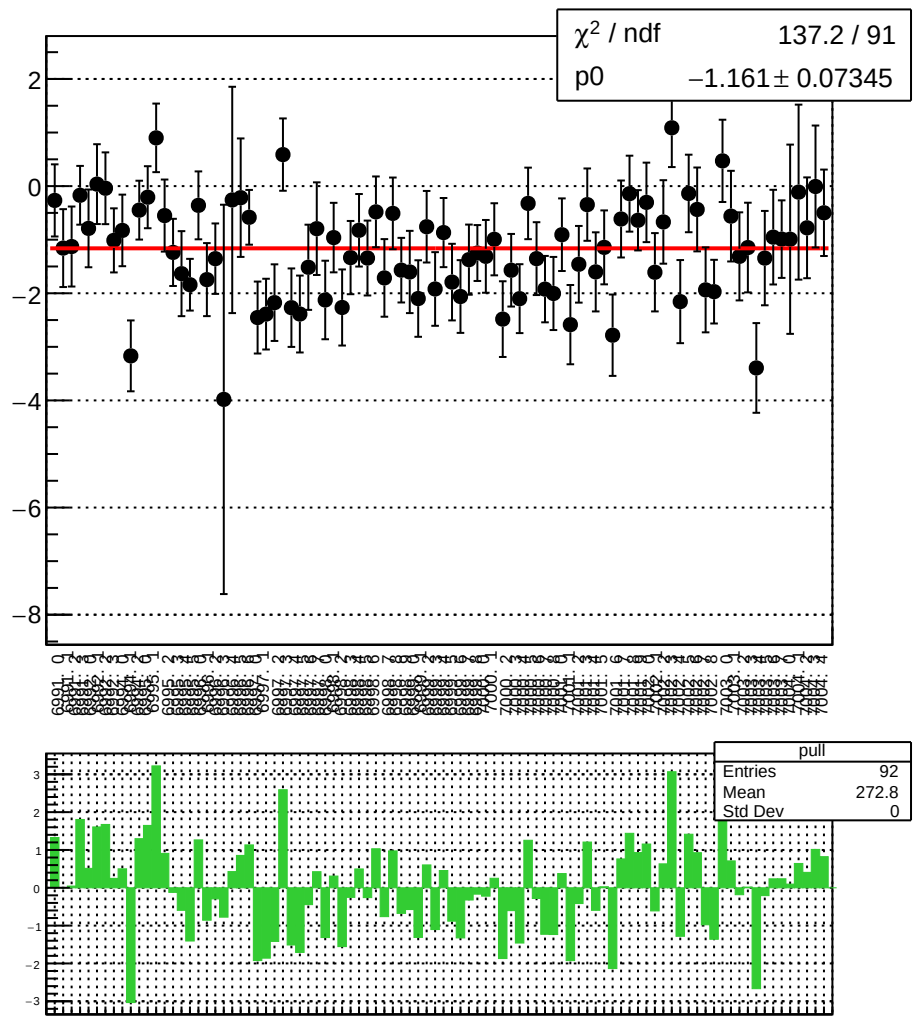

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 43.45 / 91
p0 −0.04131 ± 0.007552
pull
Entries 92
Mean 205.8
Std Dev 0

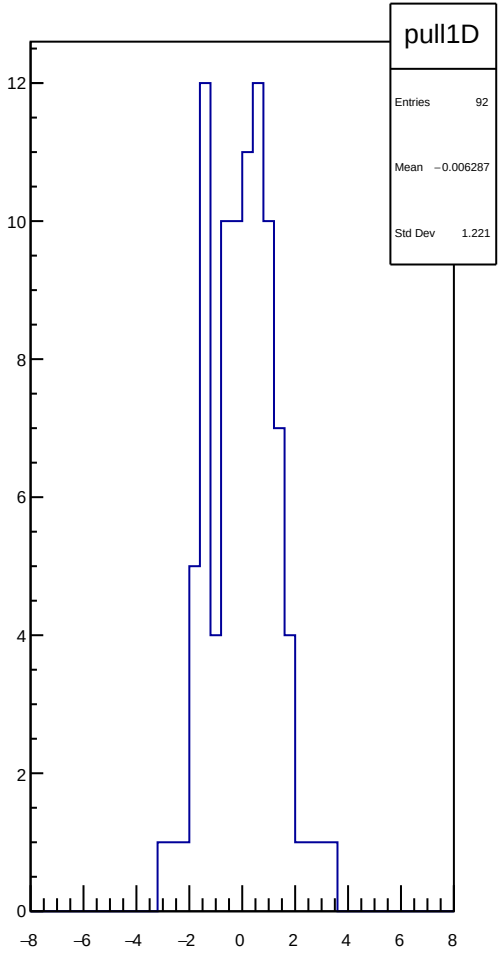

pull1D
Entries 92
Mean −0.01245
Std Dev 0.6871

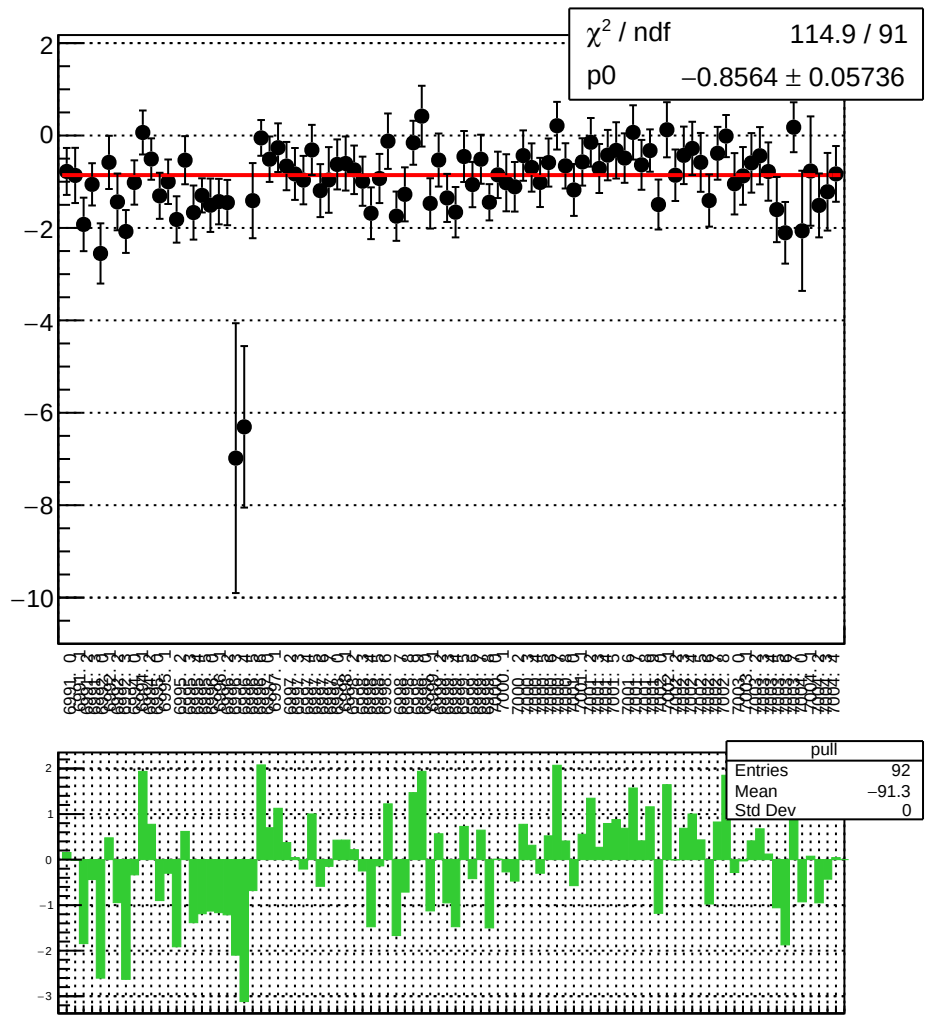

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 144.5 / 91
p0 1.168 ± 0.07968
pull
Entries 92
Mean −1782
Std Dev 0

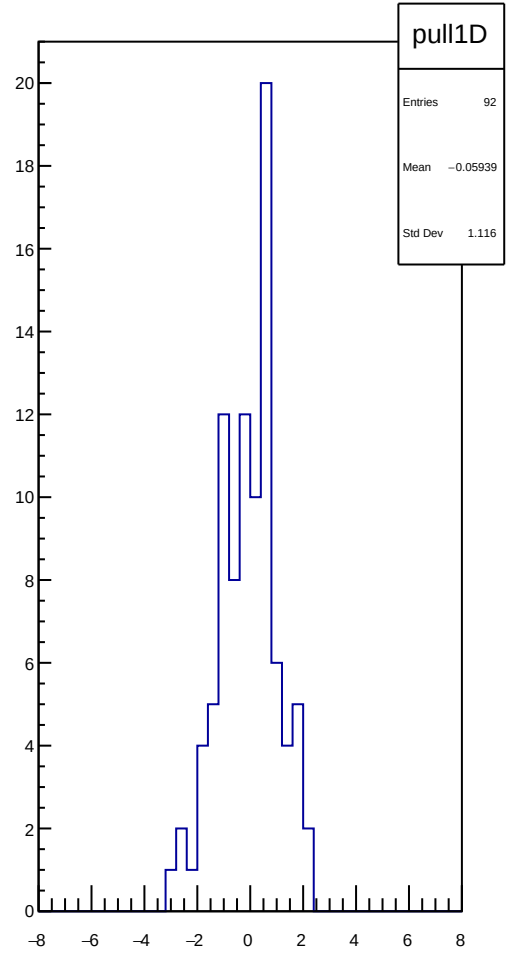

pull1D
Entries 92
Mean 0.0007187
Std Dev 1.253

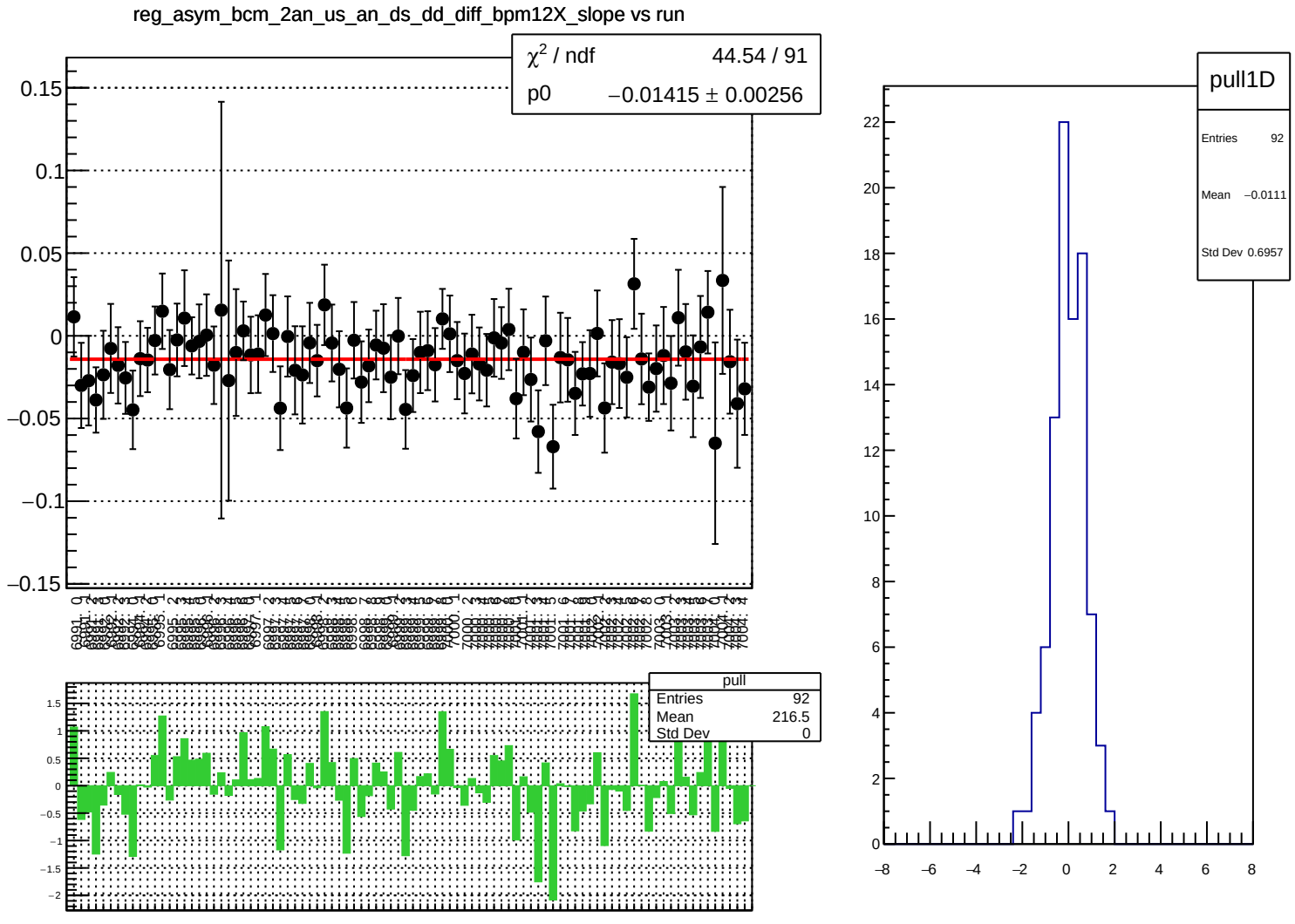

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 108.4 / 91
p0 0.8964 ± 0.05462
pull
Entries 92
Mean −63.52
Std Dev 0
pull1D
Entries 92
Mean 0.04621
Std Dev 1.084

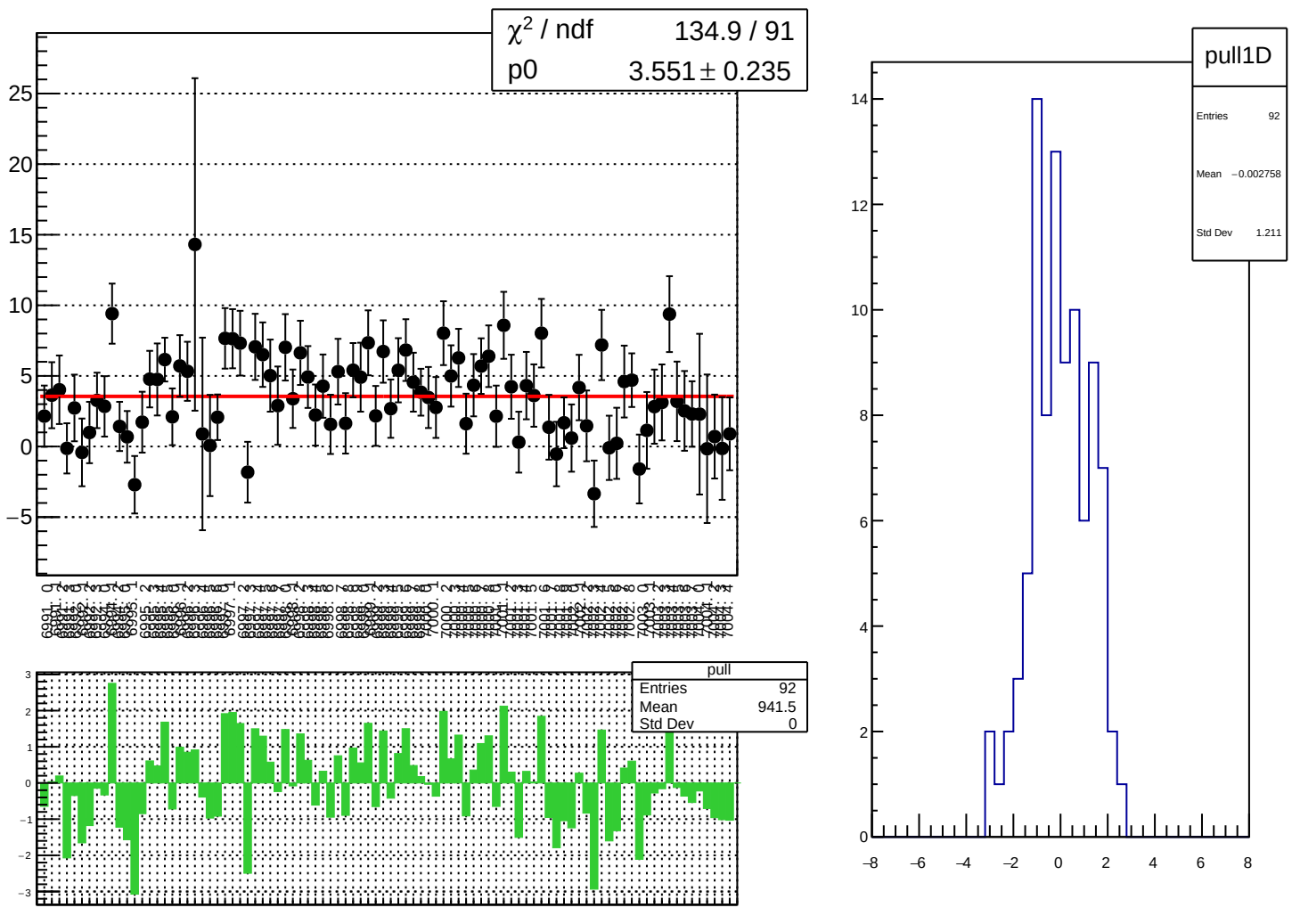

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 137.2 / 91
p0 −1.161 ± 0.07345
pull
Entries 92
Mean 272.8
Std Dev 0

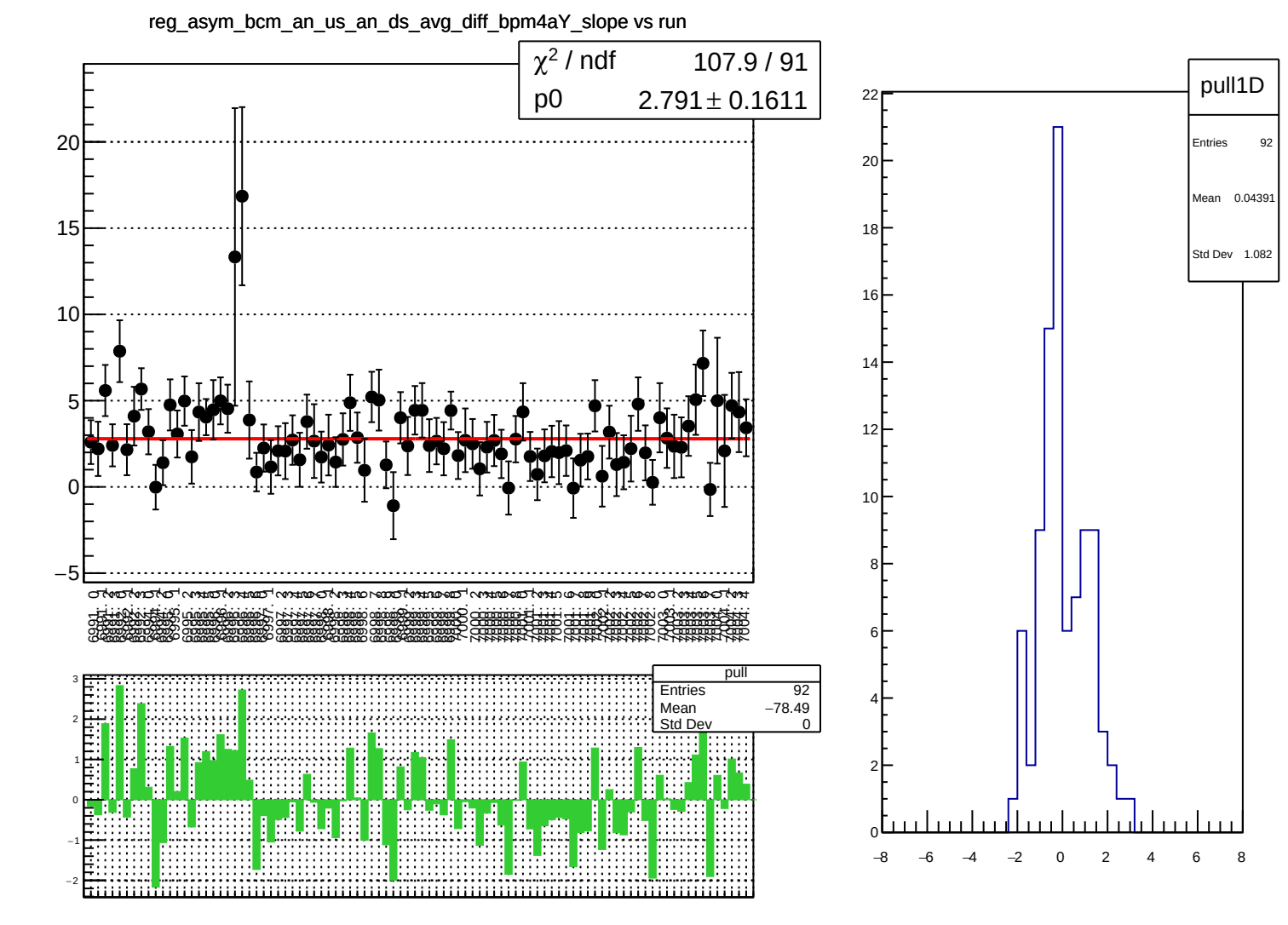

pull1D
Entries 92
Mean −0.006287
Std Dev 1.221

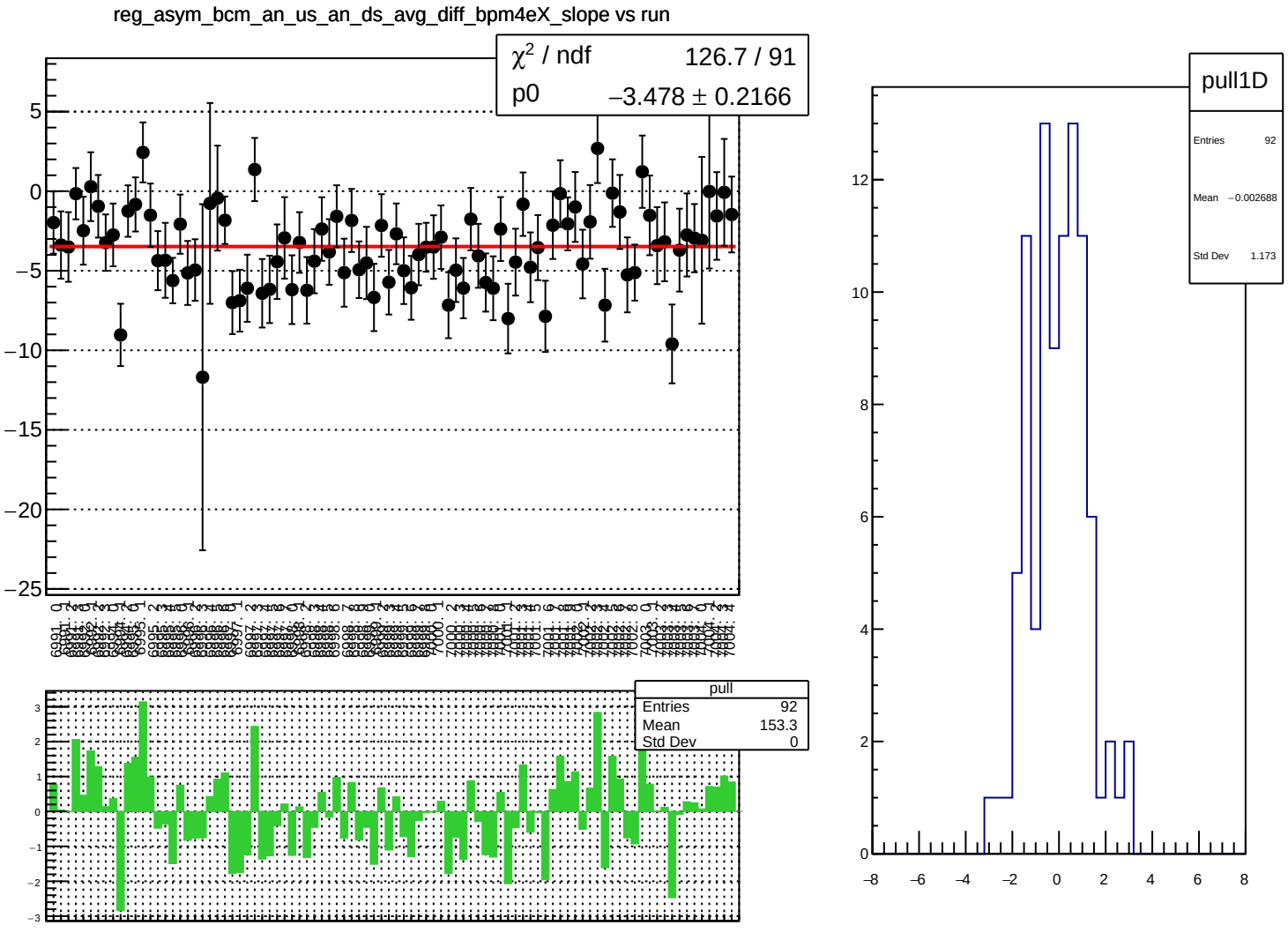

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 114.9 / 91
p0 −0.8564 ± 0.05736
pull
Entries 92
Mean −91.3
Std Dev 0

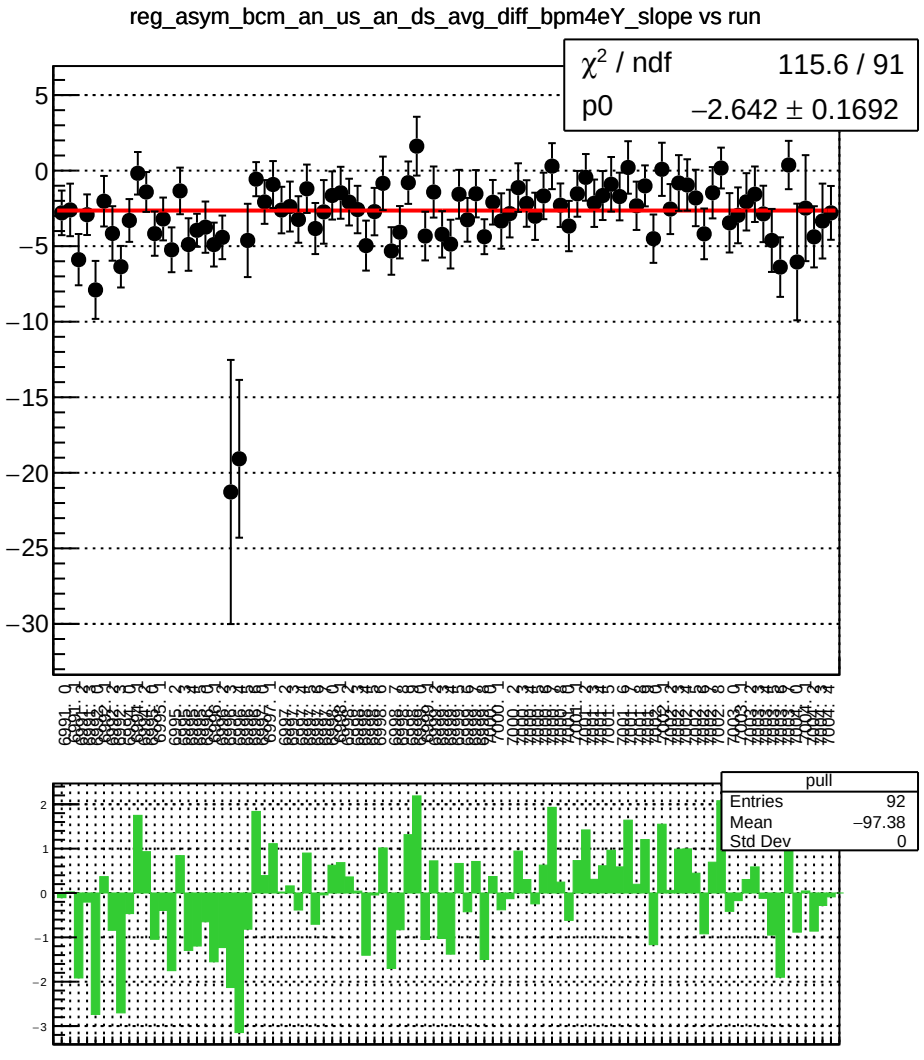

pull1D
Entries 92
Mean −0.05939
Std Dev 1.116

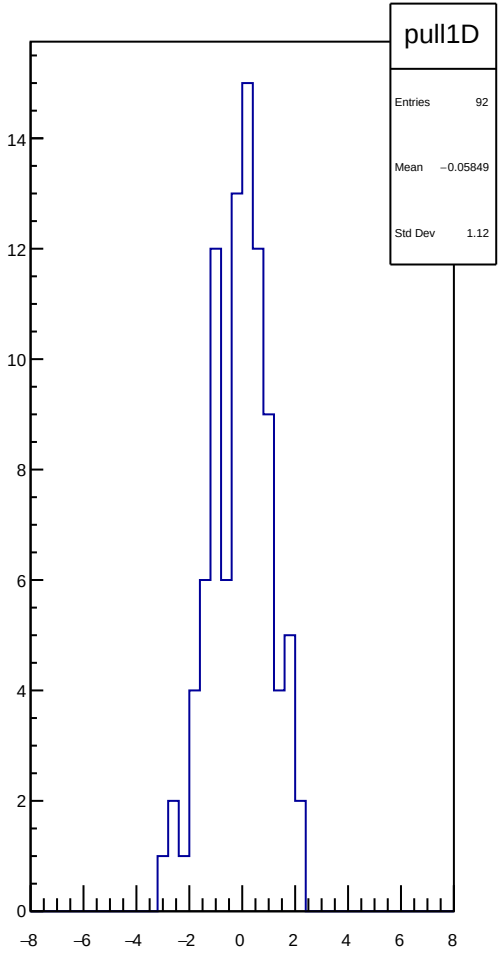

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 44.54 / 91
p0 −0.01415 ± 0.00256
pull
Entries 92
Mean 216.5
Std Dev 0
pull1D
Entries 92
Mean −0.0111
Std Dev 0.6957

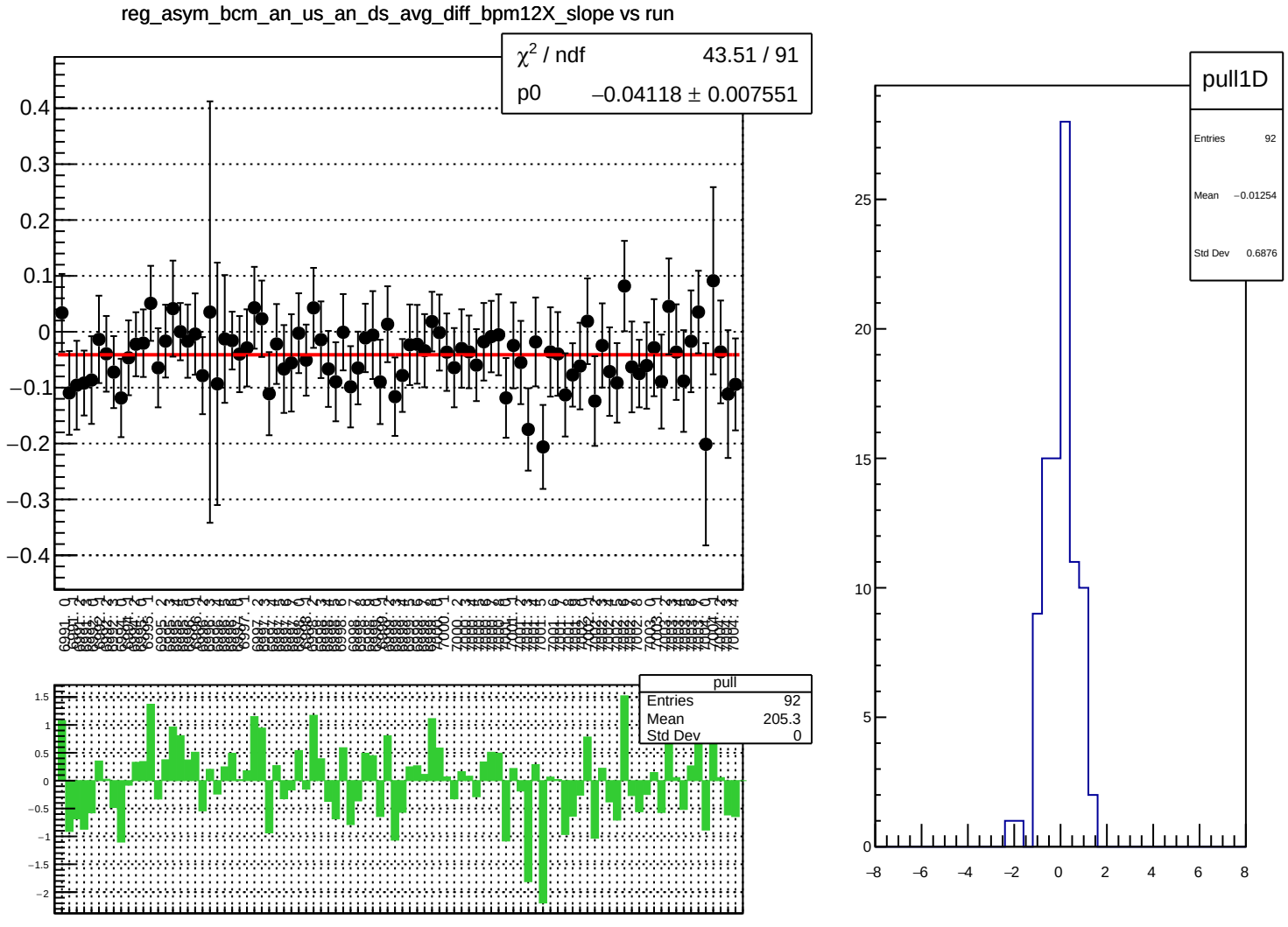

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 134.9 / 91
p0 3.551 ± 0.235
pull
Entries 92
Mean 941.5
Std Dev 0
pull1D
Entries 92
Mean −0.002758
Std Dev 1.211

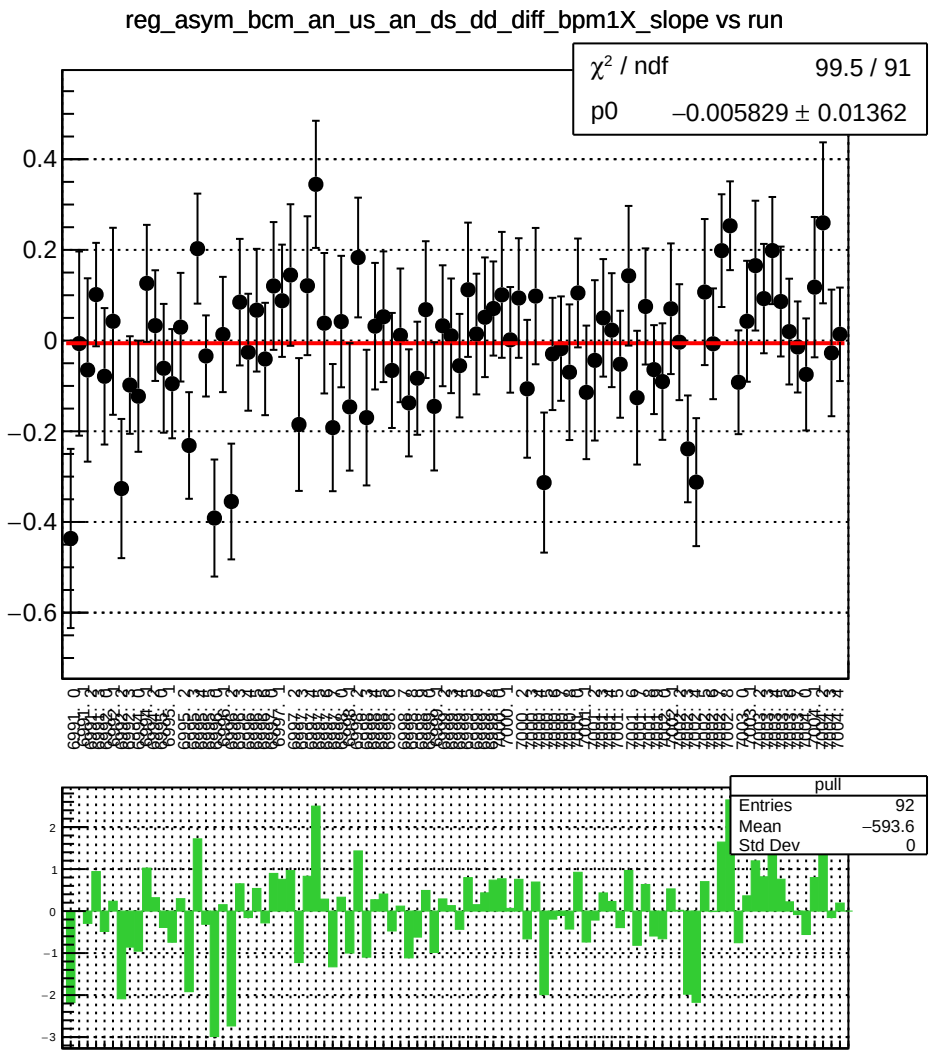

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 107.9 / 91
p0 2.791 ± 0.1611
pull
Entries 92
Mean −78.49
Std Dev 0
pull1D
Entries 92
Mean 0.04391
Std Dev 1.082

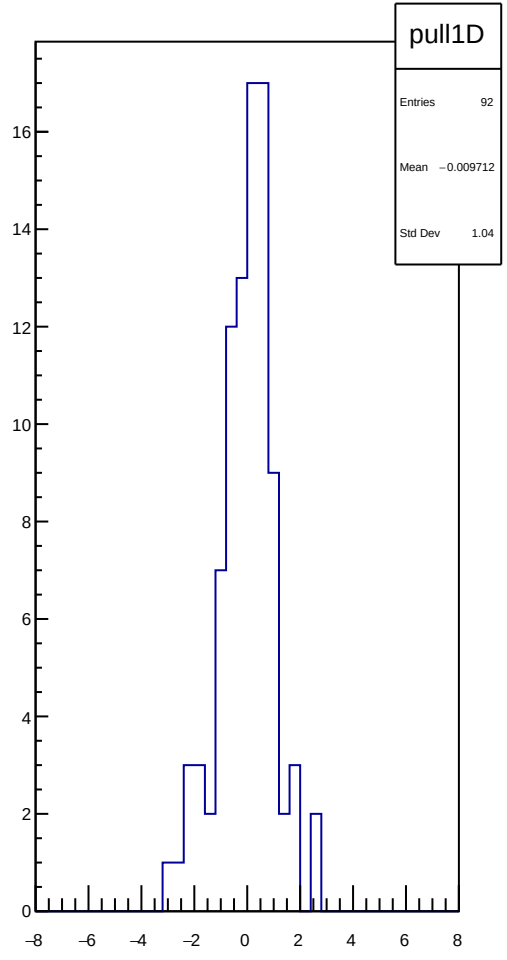

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 126.7 / 91
p0 −3.478 ± 0.2166
pull
Entries 92
Mean 153.3
Std Dev 0
pull1D
Entries 92
Mean −0.002688
Std Dev 1.173

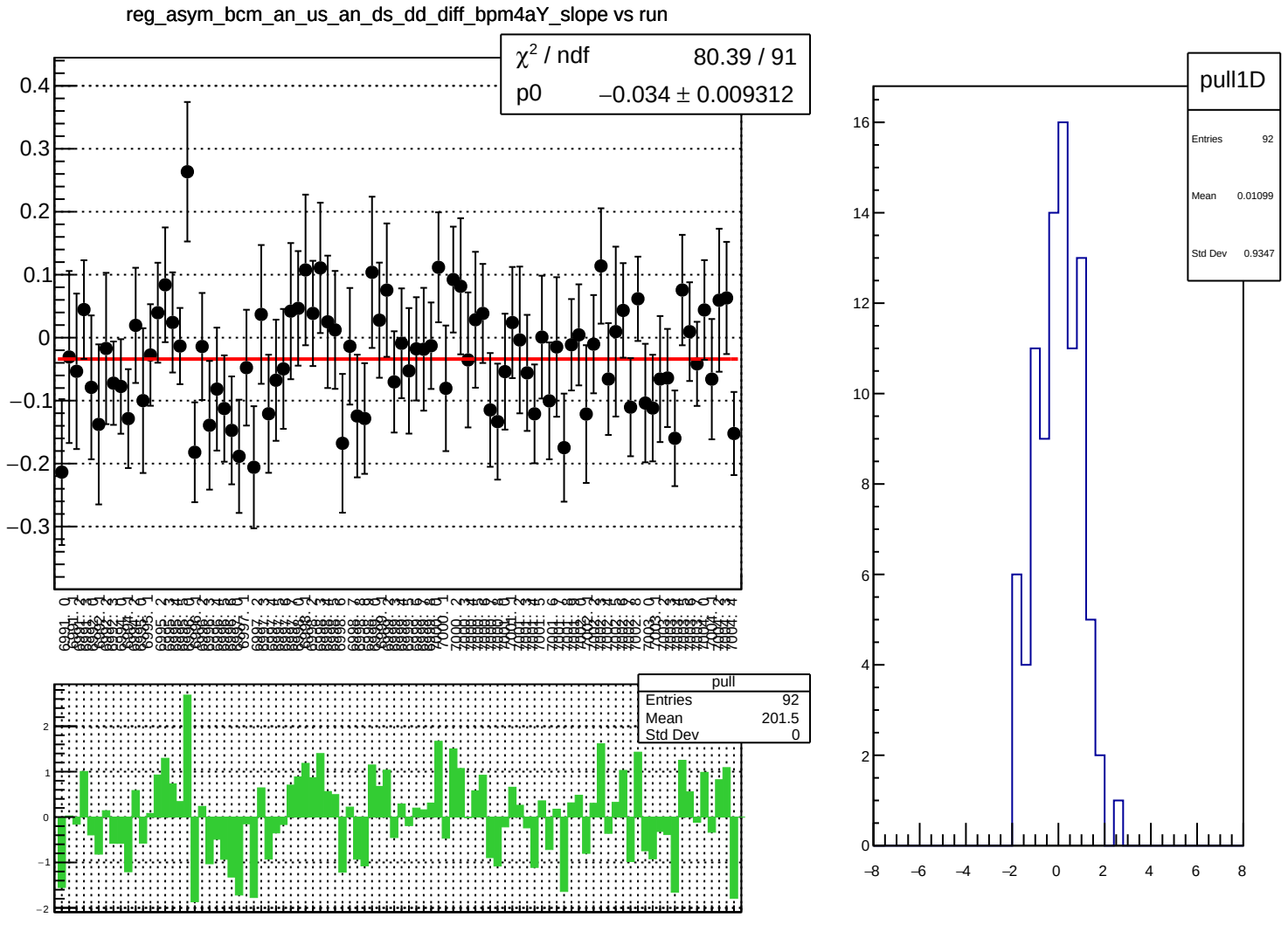

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 115.6 / 91
p0 −2.642 ± 0.1692
pull
Entries 92
Mean −97.38
Std Dev 0

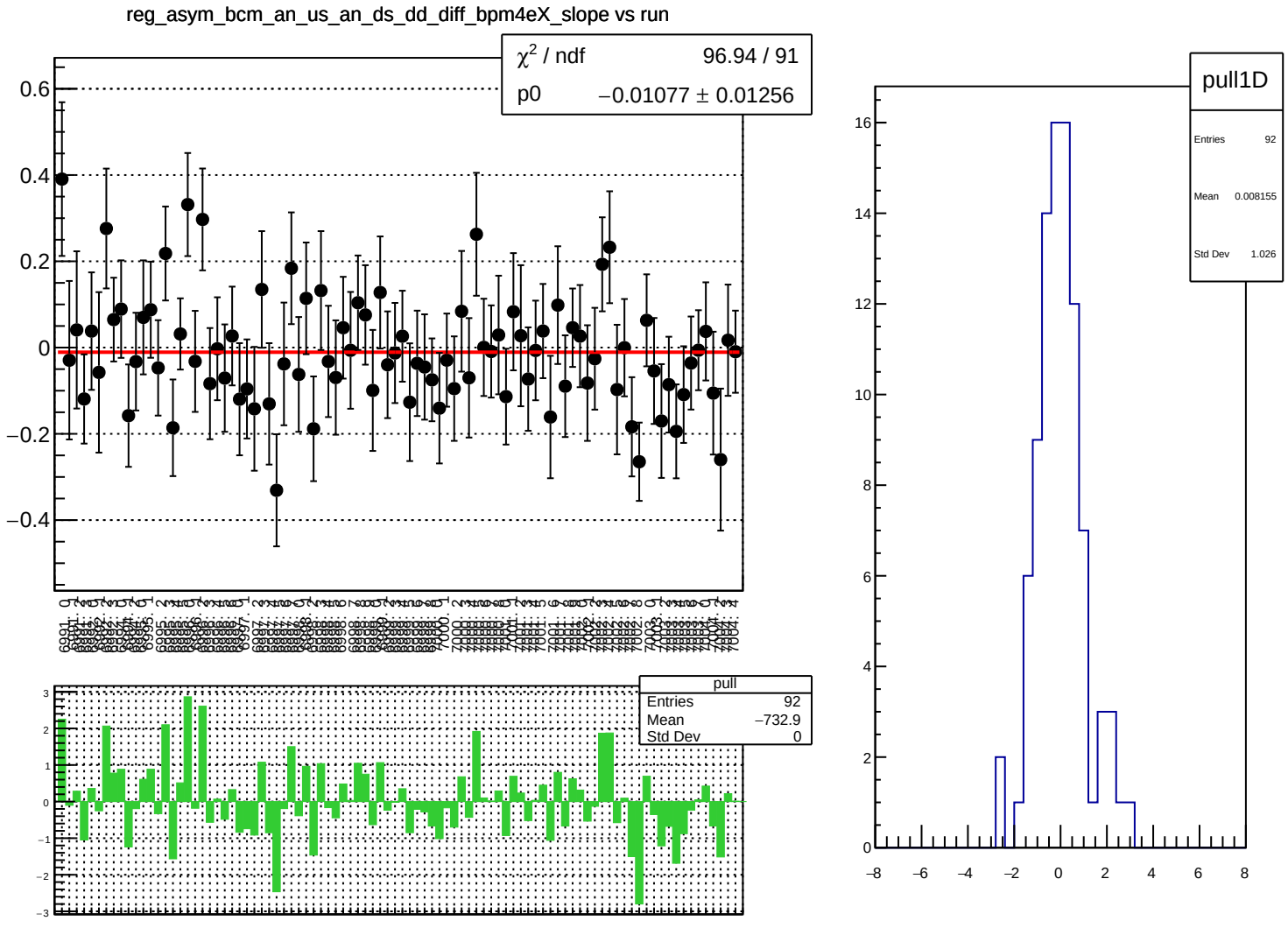

pull1D
Entries 92
Mean −0.05849
Std Dev 1.12

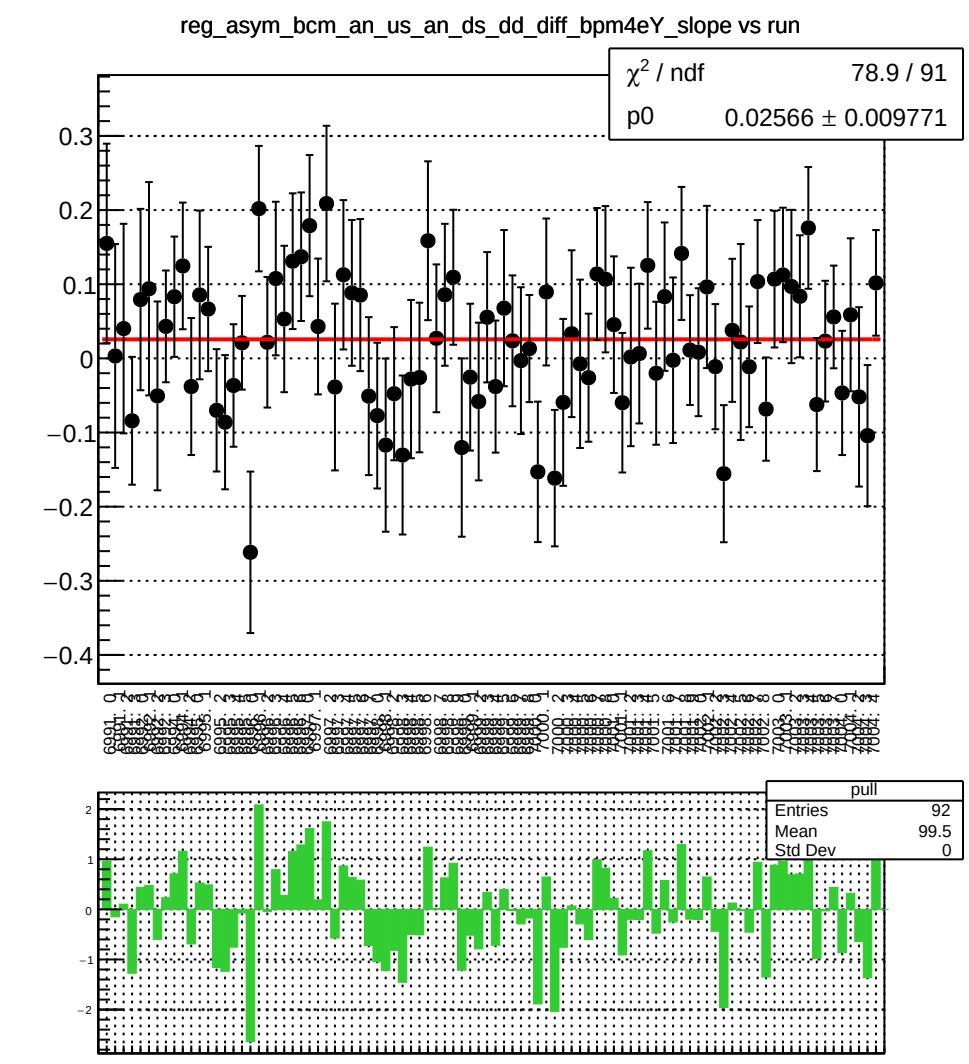

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 43.51 / 91
p0 −0.04118 ± 0.007551
pull
Entries 92
Mean 205.3
Std Dev 0
pull1D
Entries 92
Mean −0.01254
Std Dev 0.6876

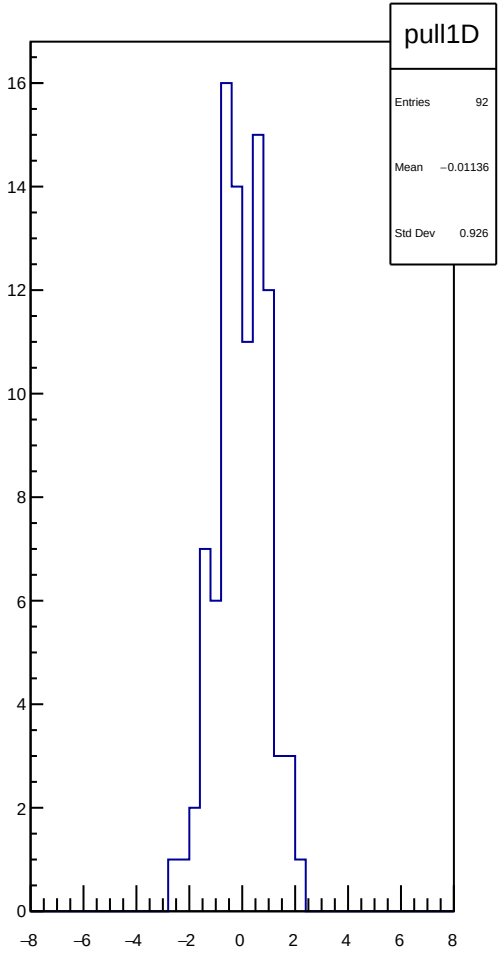

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 99.5 / 91
p0 −0.005829 ± 0.01362
pull
Entries 92
Mean −593.6
Std Dev 0

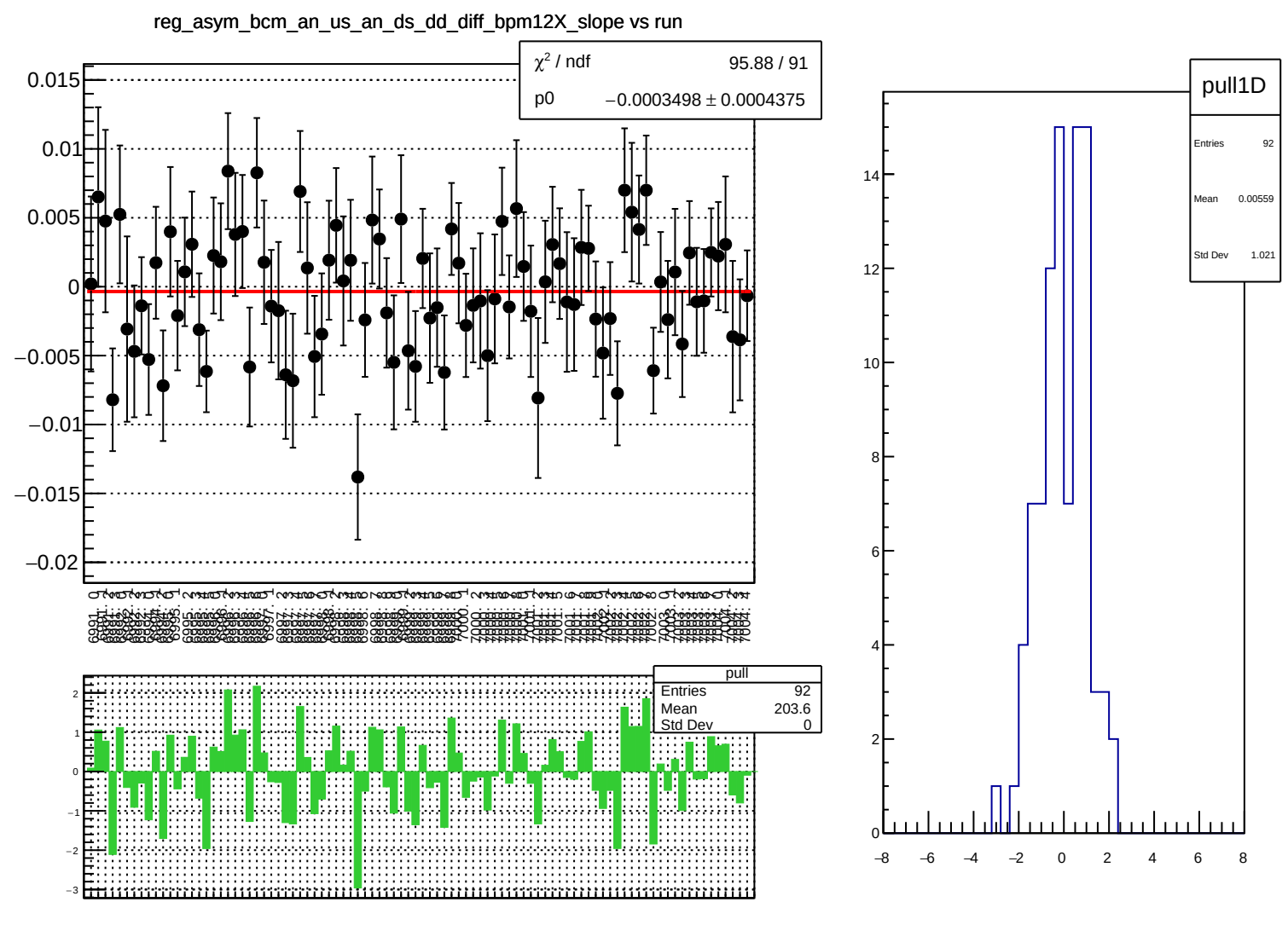

pull1D
Entries 92
Mean −0.009712
Std Dev 1.04

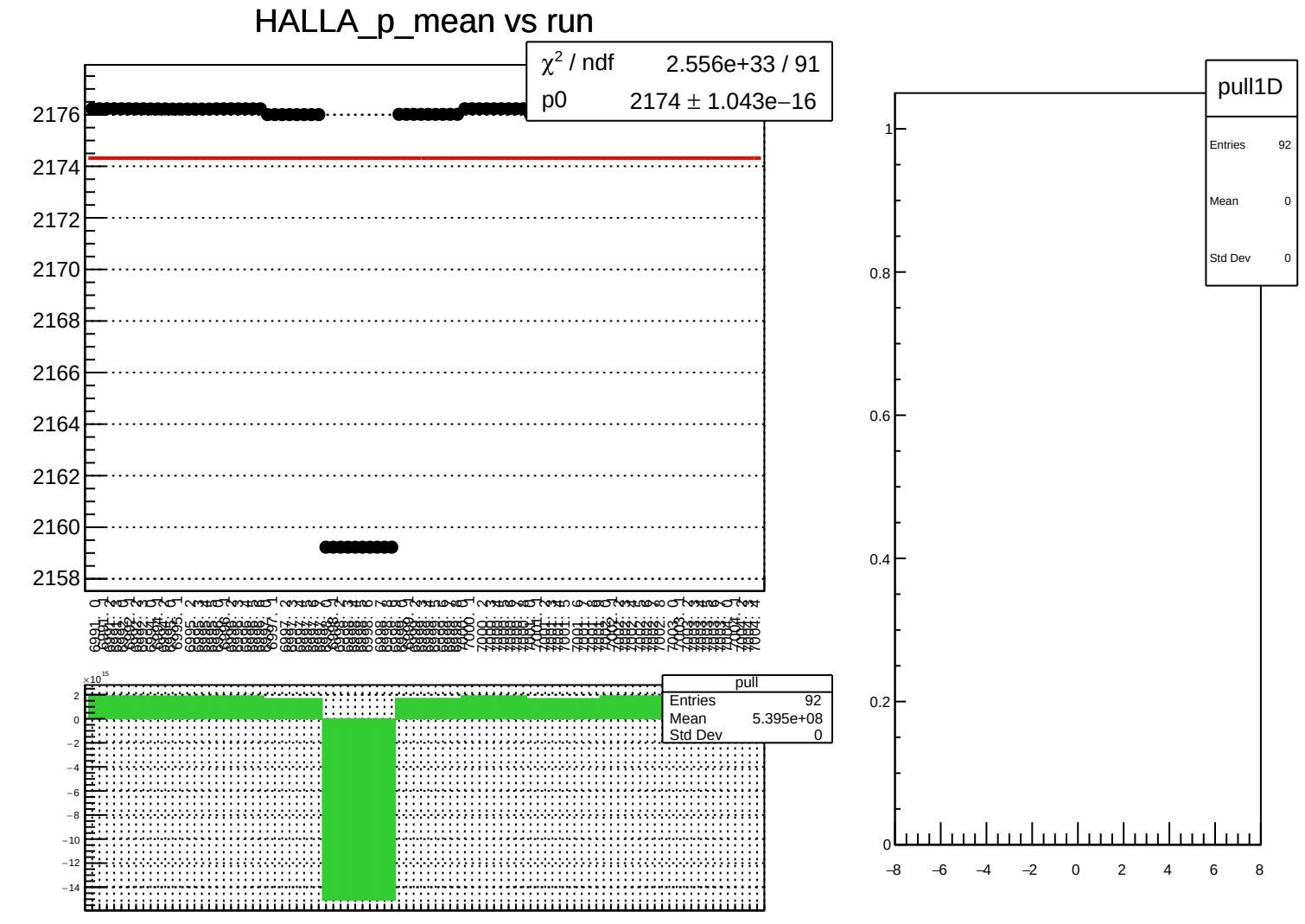

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.39 / 91
p0 −0.034 ± 0.009312
pull
Entries 92
Mean 201.5
Std Dev 0
pull1D
Entries 92
Mean 0.01099
Std Dev 0.9347

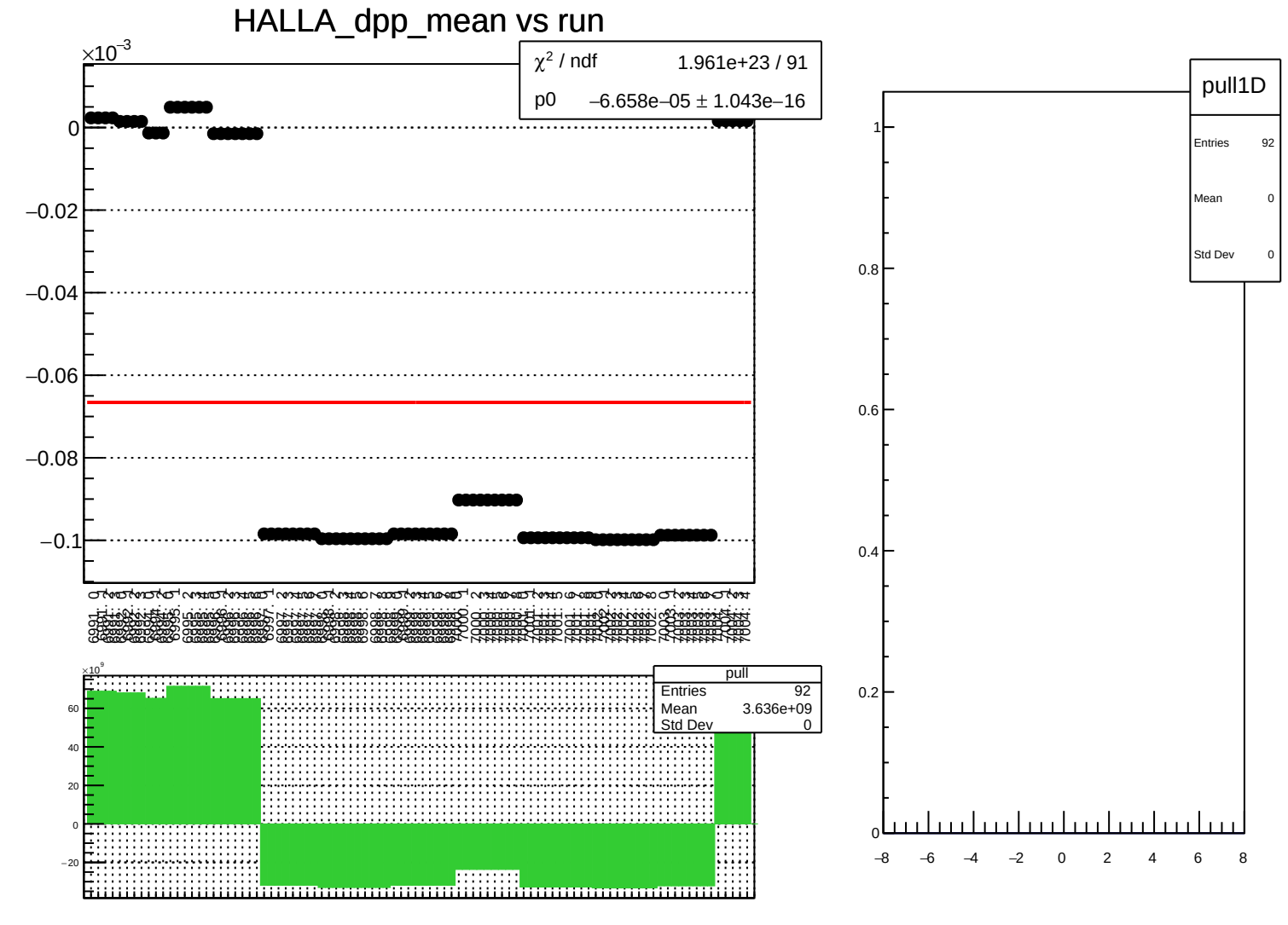

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.94 / 91
p0 −0.01077 ± 0.01256
pull
Entries 92
Mean −732.9
Std Dev 0
pull1D
Entries 92
Mean 0.008155
Std Dev 1.026

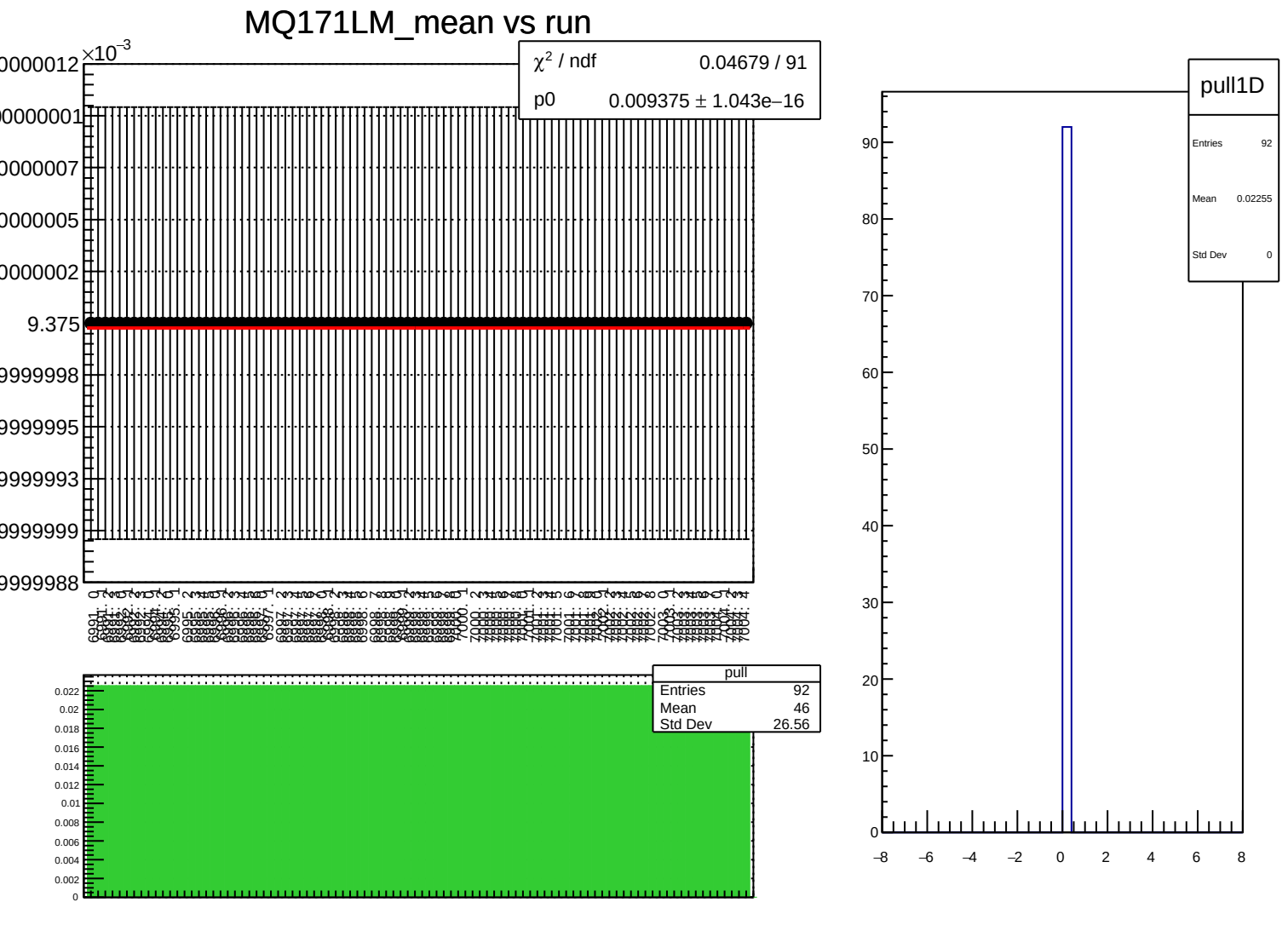

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.9 / 91
p0 0.02566 ± 0.009771
pull
Entries 92
Mean 99.5
Std Dev 0

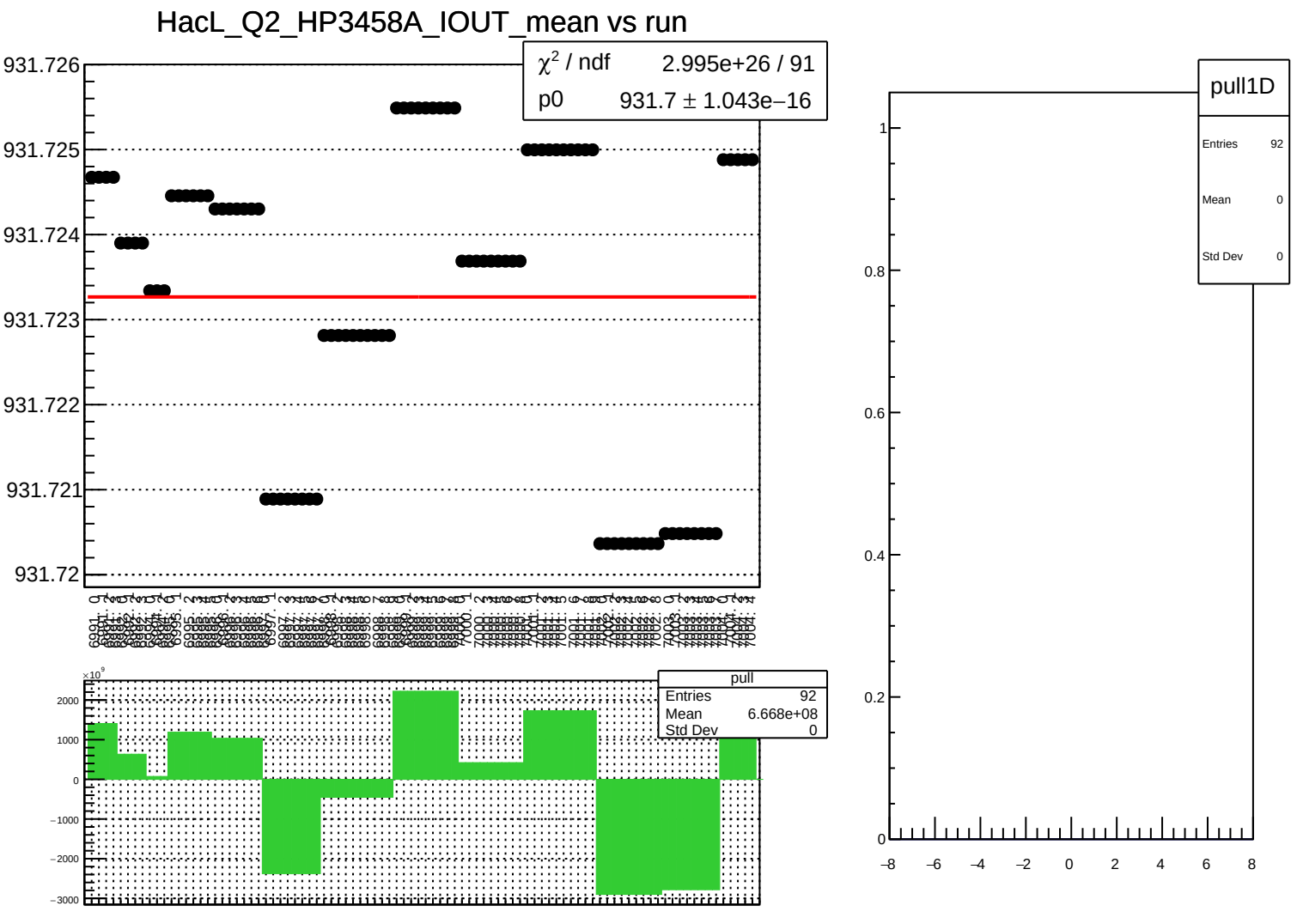

pull1D
Entries 92
Mean −0.01136
Std Dev 0.926

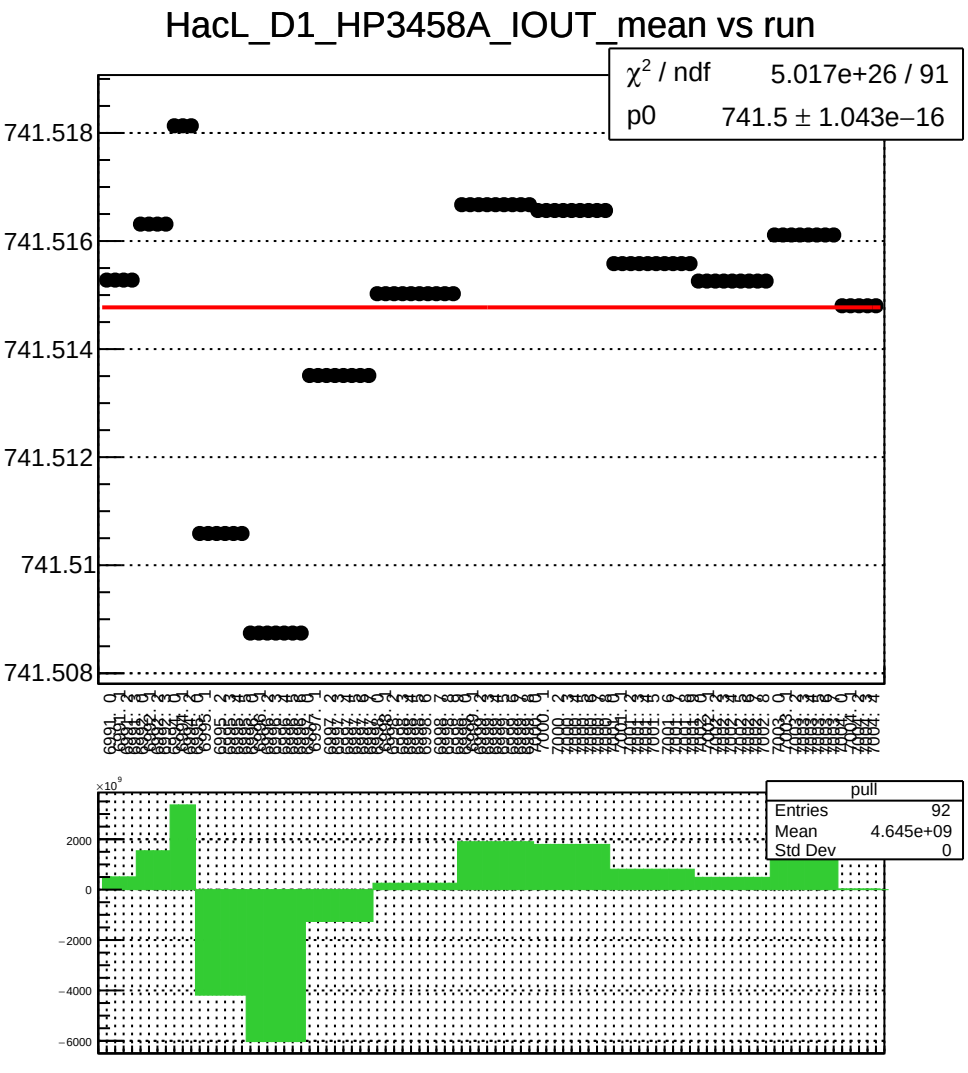

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 95.88 / 91
p0 −0.0003498 ± 0.0004375
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 203.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.00559
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

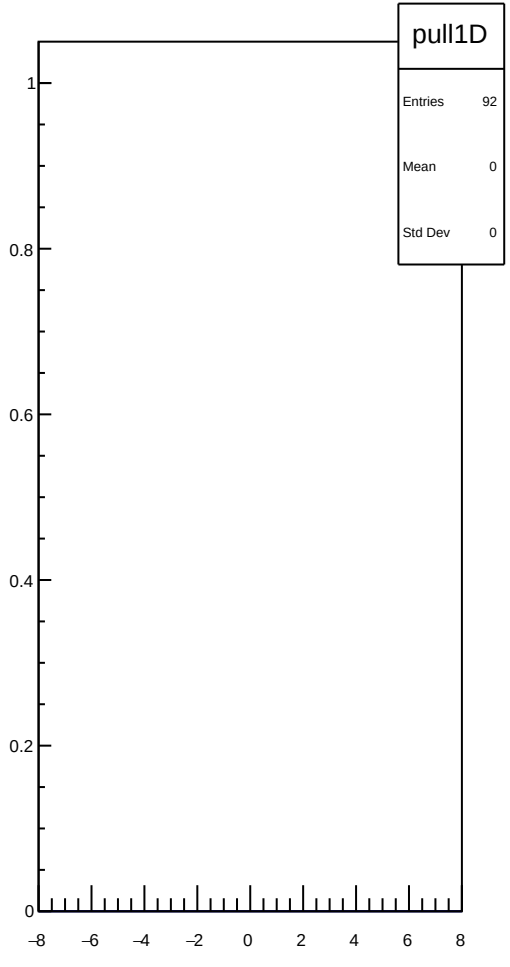

HALLA_p_mean vs run
χ² / ndf 2.556e+33 / 91
p0 2174 ± 1.043e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 92
Mean 5.395e+08
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

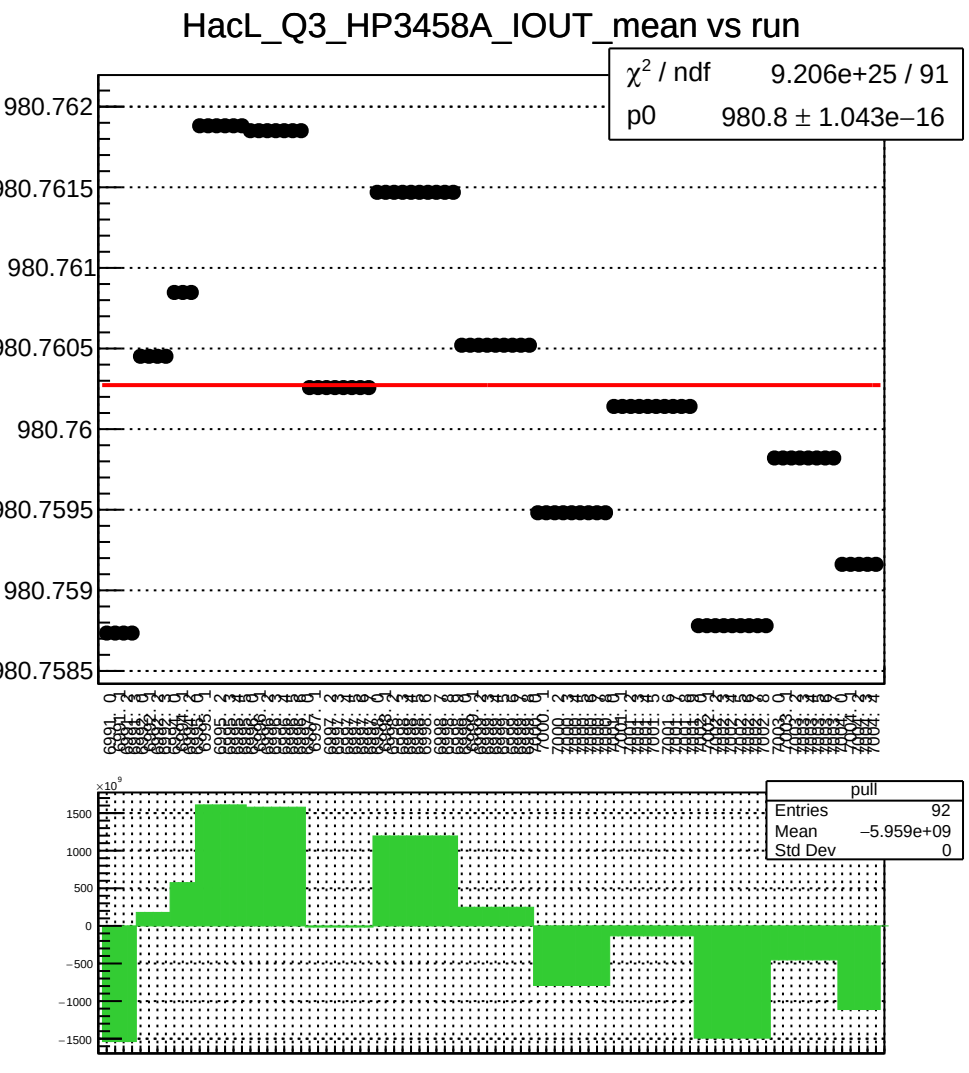

HALLA_dpp_mean vs run
χ² / ndf 1.961e+23 / 91
p0 −6.658e−05 ± 1.043e−16
×10⁻³
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 92
Mean 3.636e+09
Std Dev 0
×10⁹
60
40
20
0
−20
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

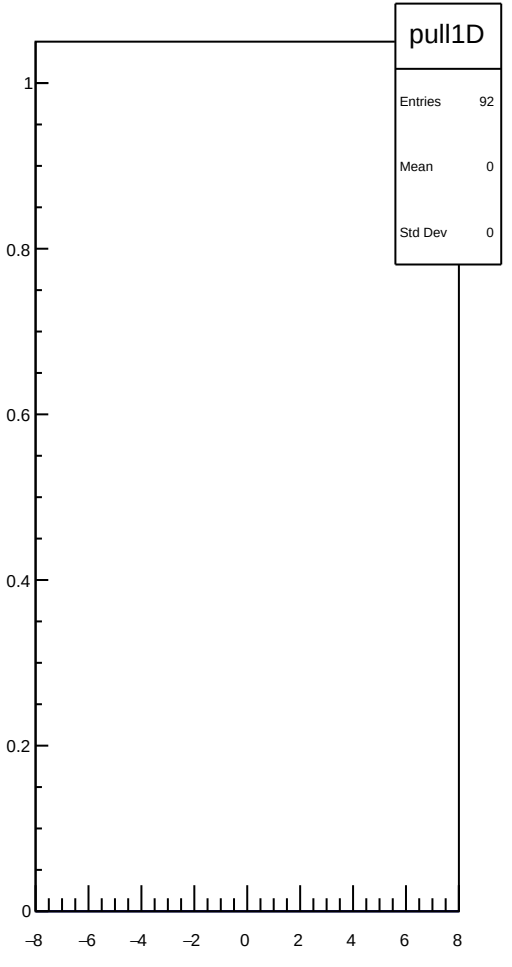

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 0.02255
Std Dev 0

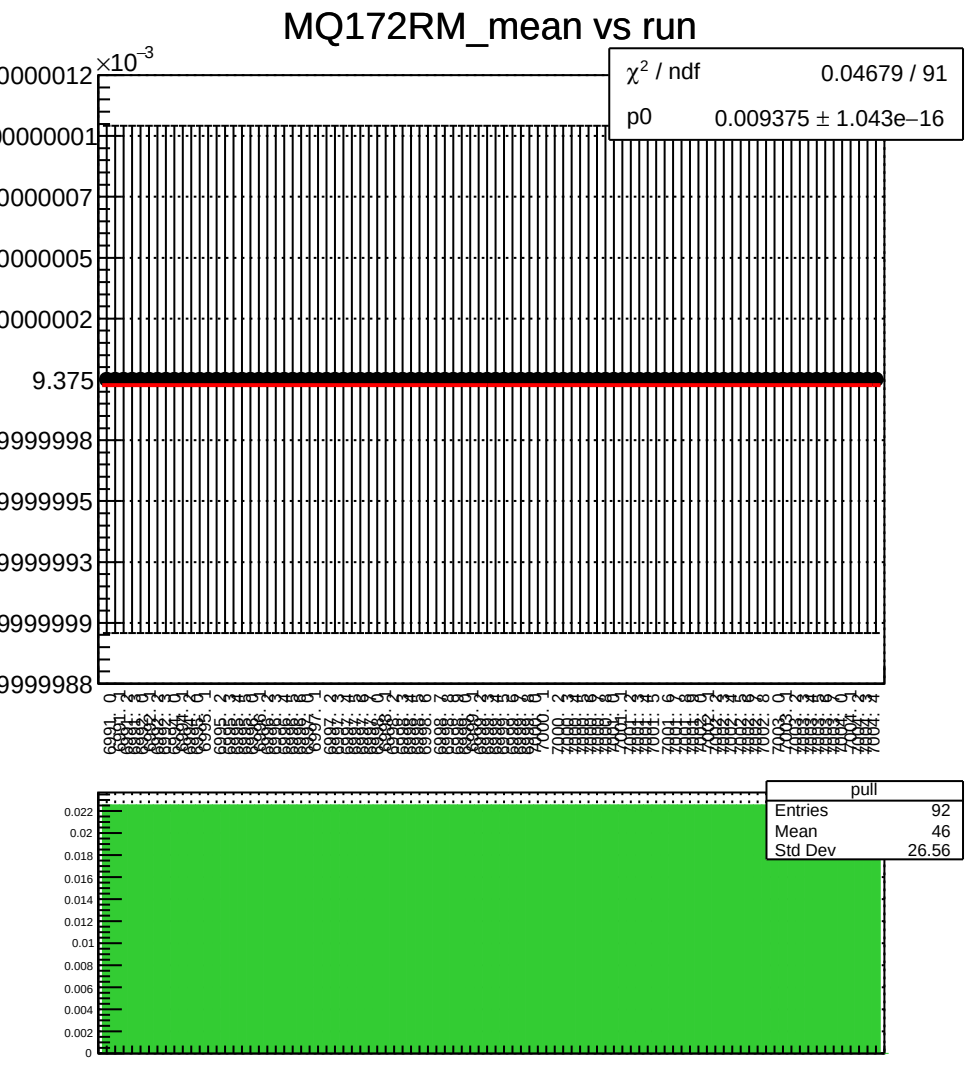

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.995e+26 / 91
p0 931.7 ± 1.043e−16
931.726
931.725
931.724
931.723
931.722
931.721
931.72
pull
Entries 92
Mean 6.668e+08
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

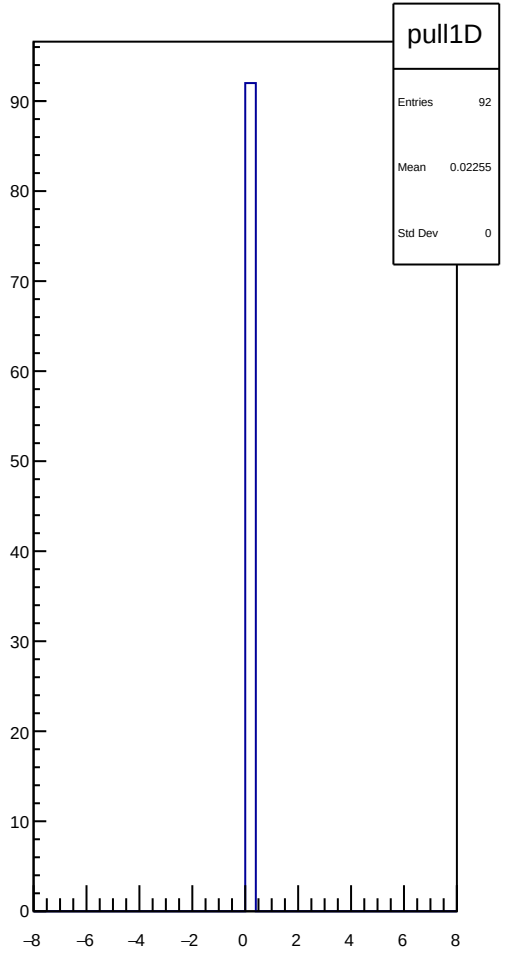

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.017e+26 / 91
p0 741.5 ± 1.043e−16
741.518
741.516
741.514
741.512
741.51
741.508
pull
Entries 92
Mean 4.645e+09
Std Dev 0
×10⁹
2000
0
−2000
−4000
−6000

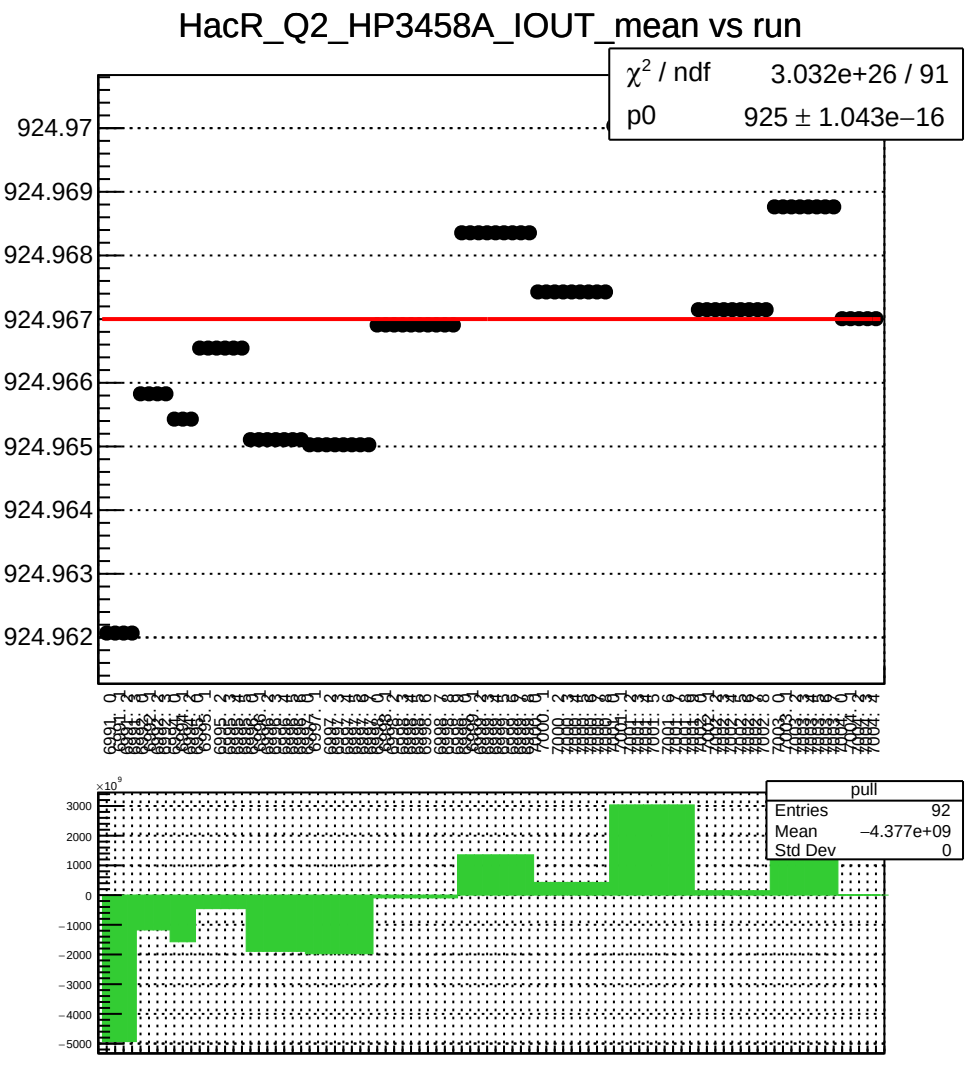

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

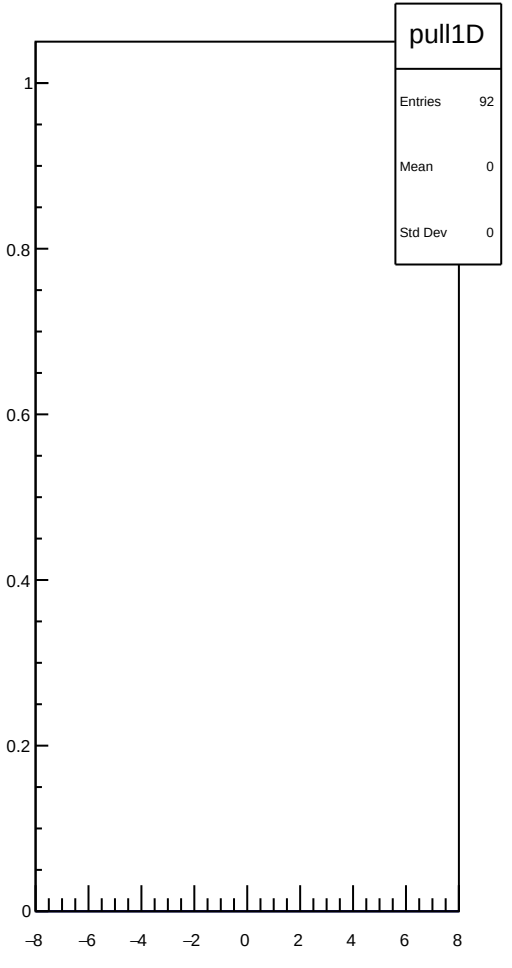

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 9.206e+25 / 91
p0 980.8 ± 1.043e−16
980.762
980.7615
980.761
980.7605
980.76
980.7595
980.759
980.7585
pull
Entries 92
Mean −5.959e+09
Std Dev 0
×10⁹
1500
1000
500
0
−500
−1000
−1500

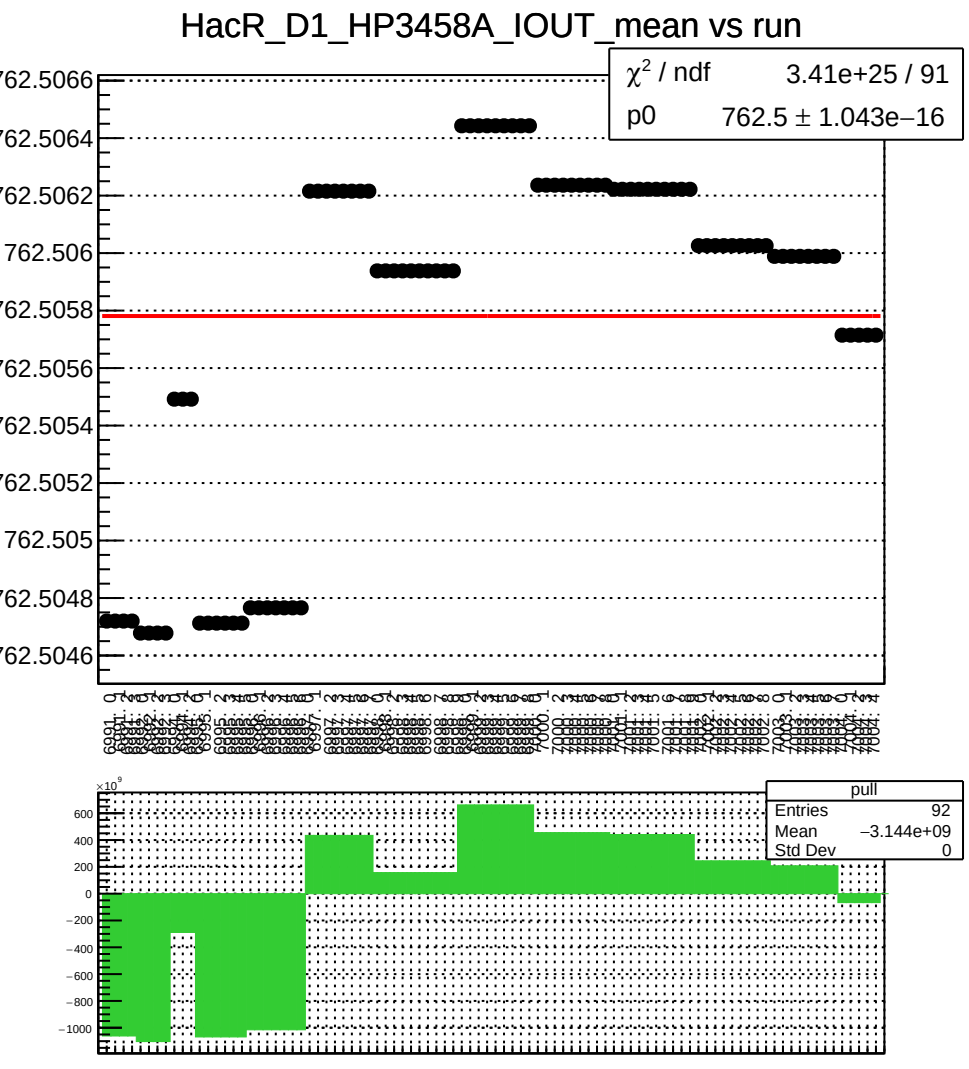

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

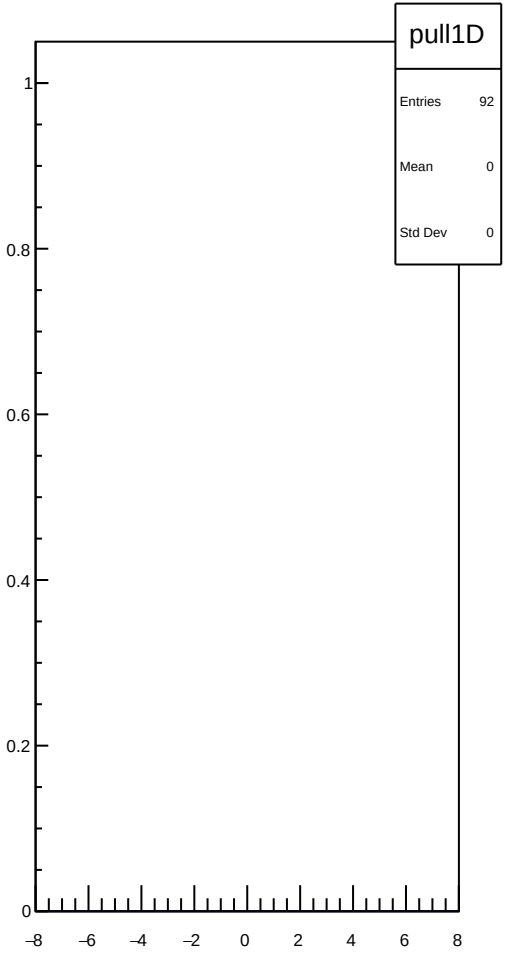

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
pull
Entries 92
Mean 46
Std Dev 26.56

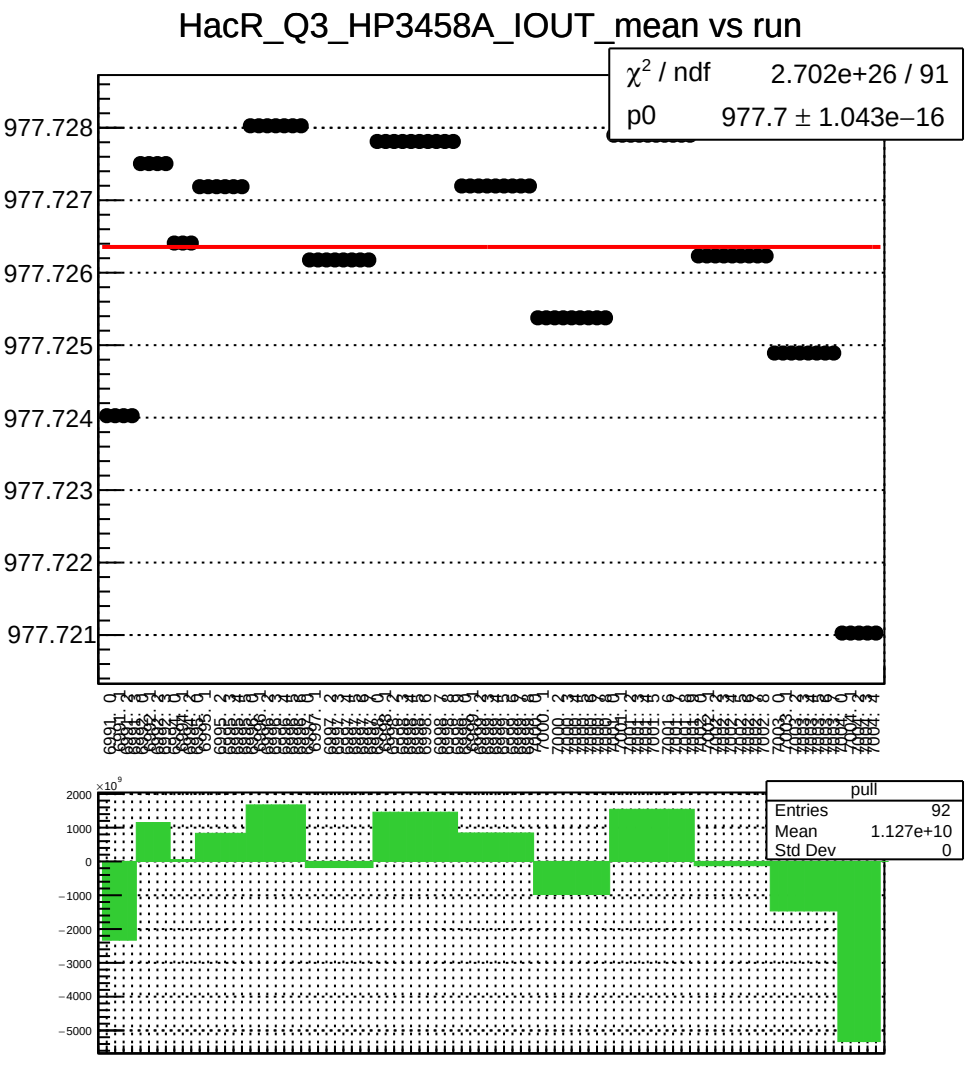

pull1D
Entries 92
Mean 0.02255
Std Dev 0

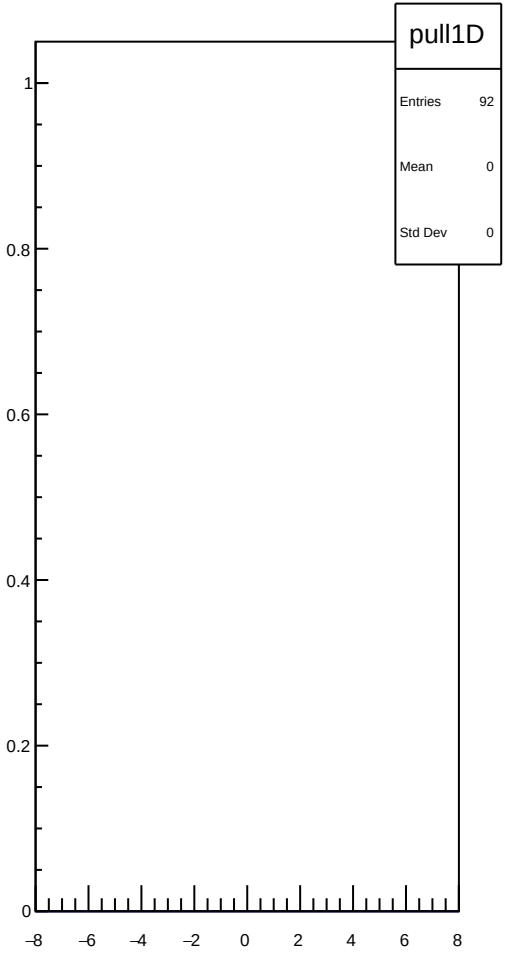

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.032e+26 / 91
p0 925 ± 1.043e−16
924.97
924.969
924.968
924.967
924.966
924.965
924.964
924.963
924.962
pull
Entries 92
Mean −4.377e+09
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

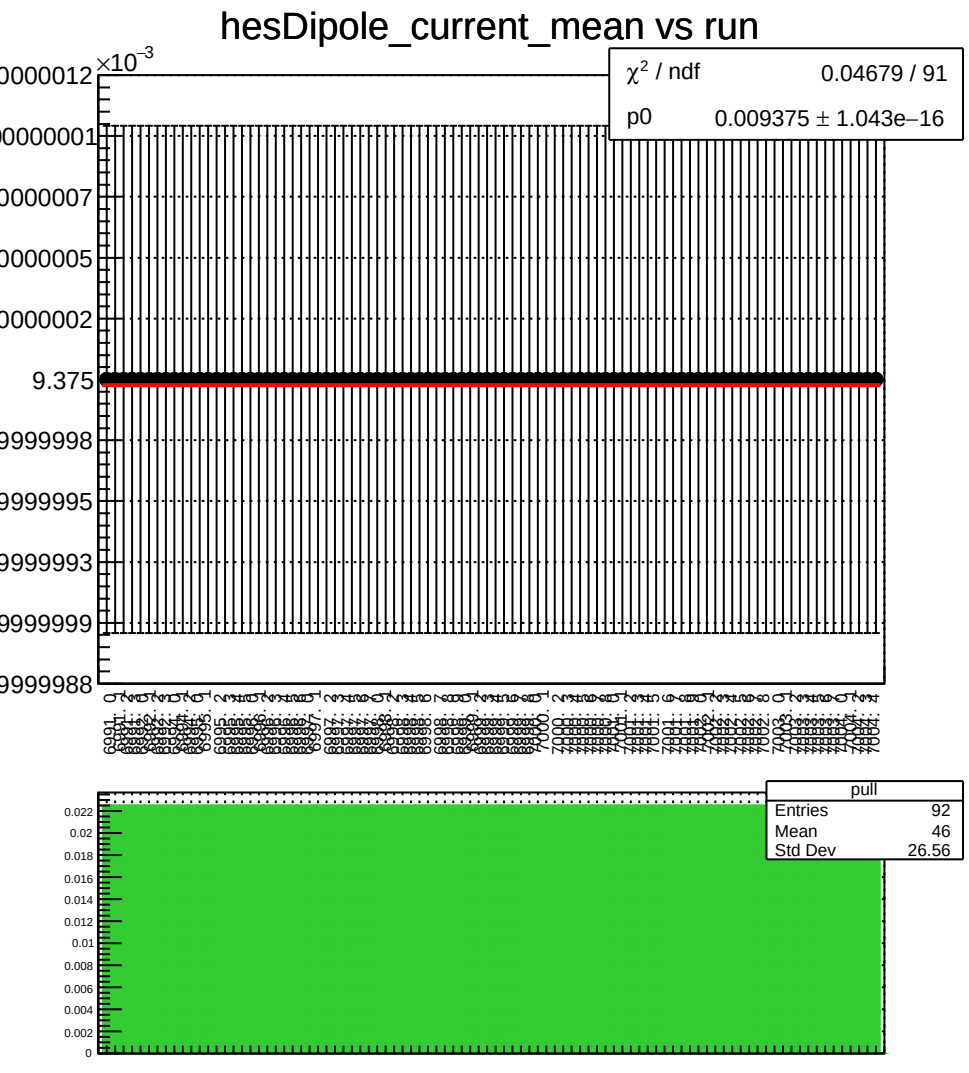

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

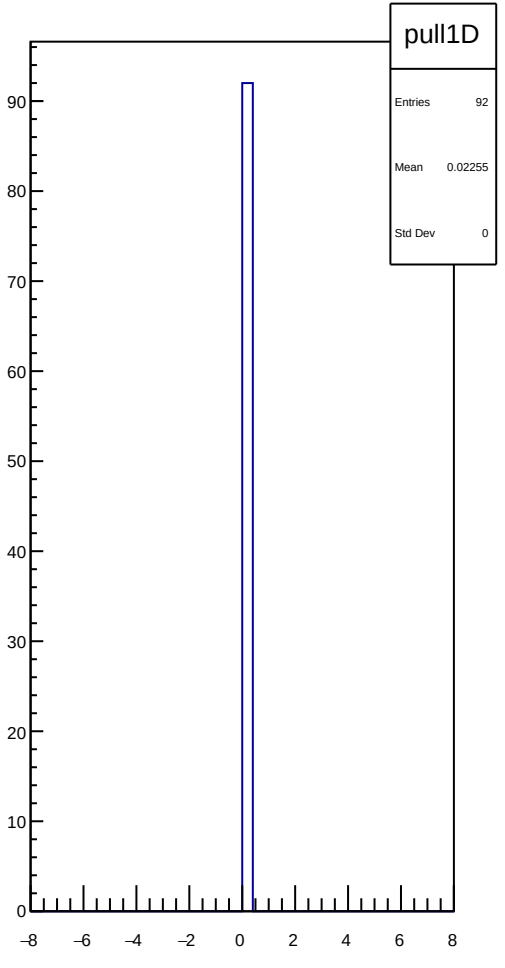

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.41e+25 / 91
p0 762.5 ± 1.043e−16
762.5066
762.5064
762.5062
762.506
762.5058
762.5056
762.5054
762.5052
762.505
762.5048
762.5046
pull
Entries 92
Mean −3.144e+09
Std Dev 0
×10⁹
600
400
200
0
−200
−400
−600
−800
−1000

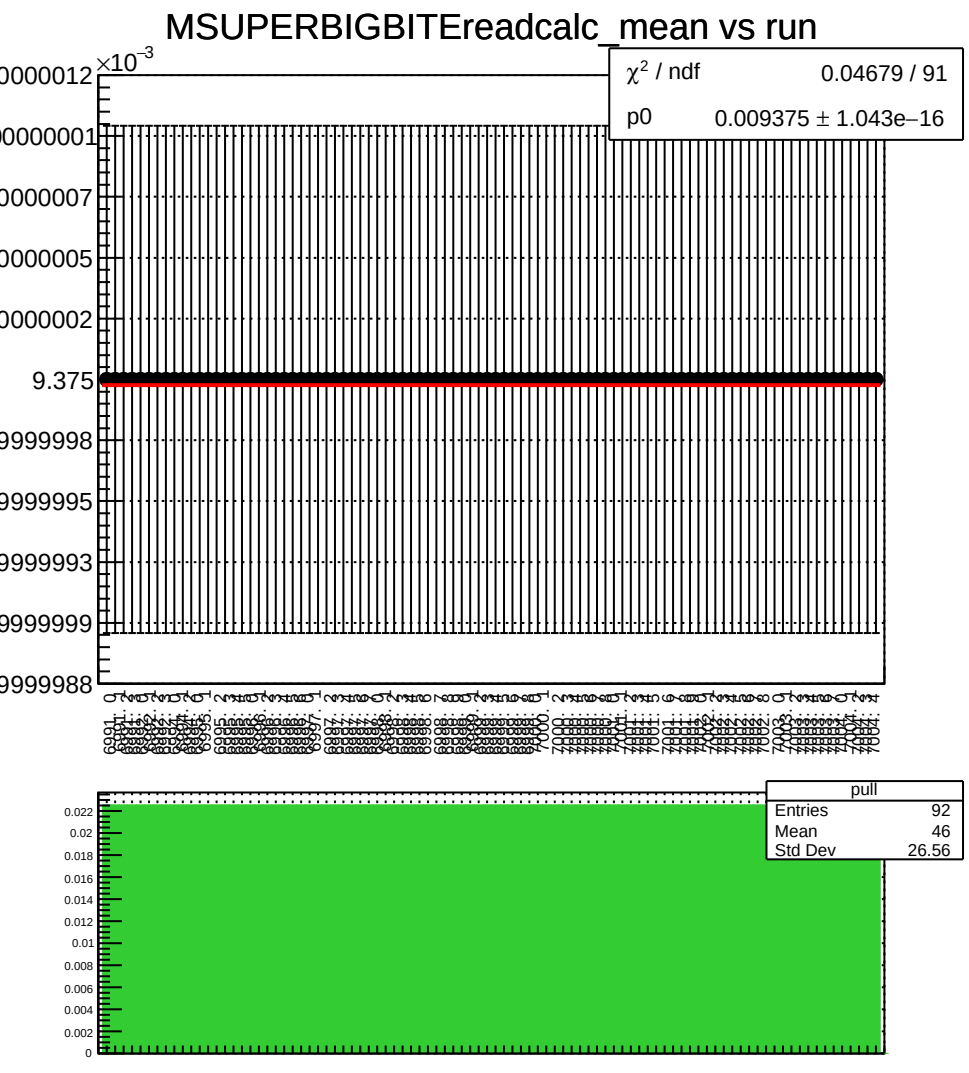

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

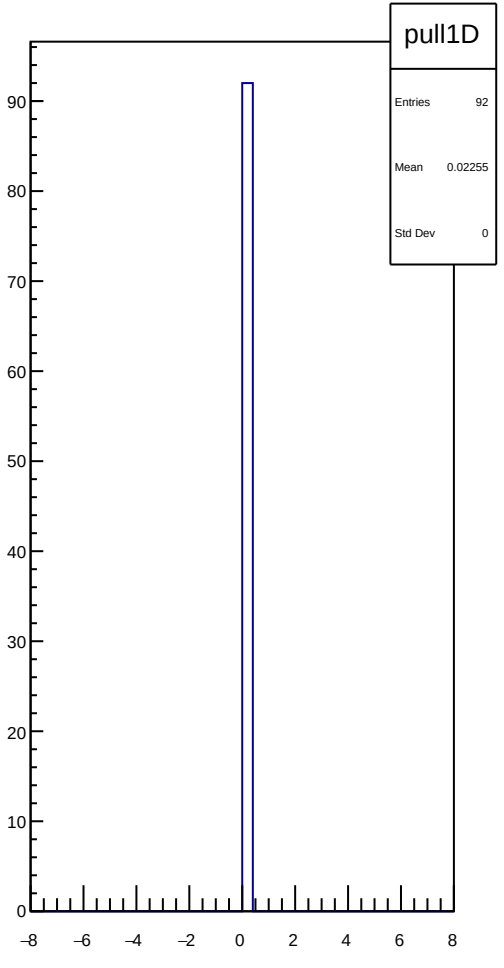

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.702e+26 / 91
p0 977.7 ± 1.043e−16
977.728
977.727
977.726
977.725
977.724
977.723
977.722
977.721
pull
Entries 92
Mean 1.127e+10
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000
−3000
−4000
−5000

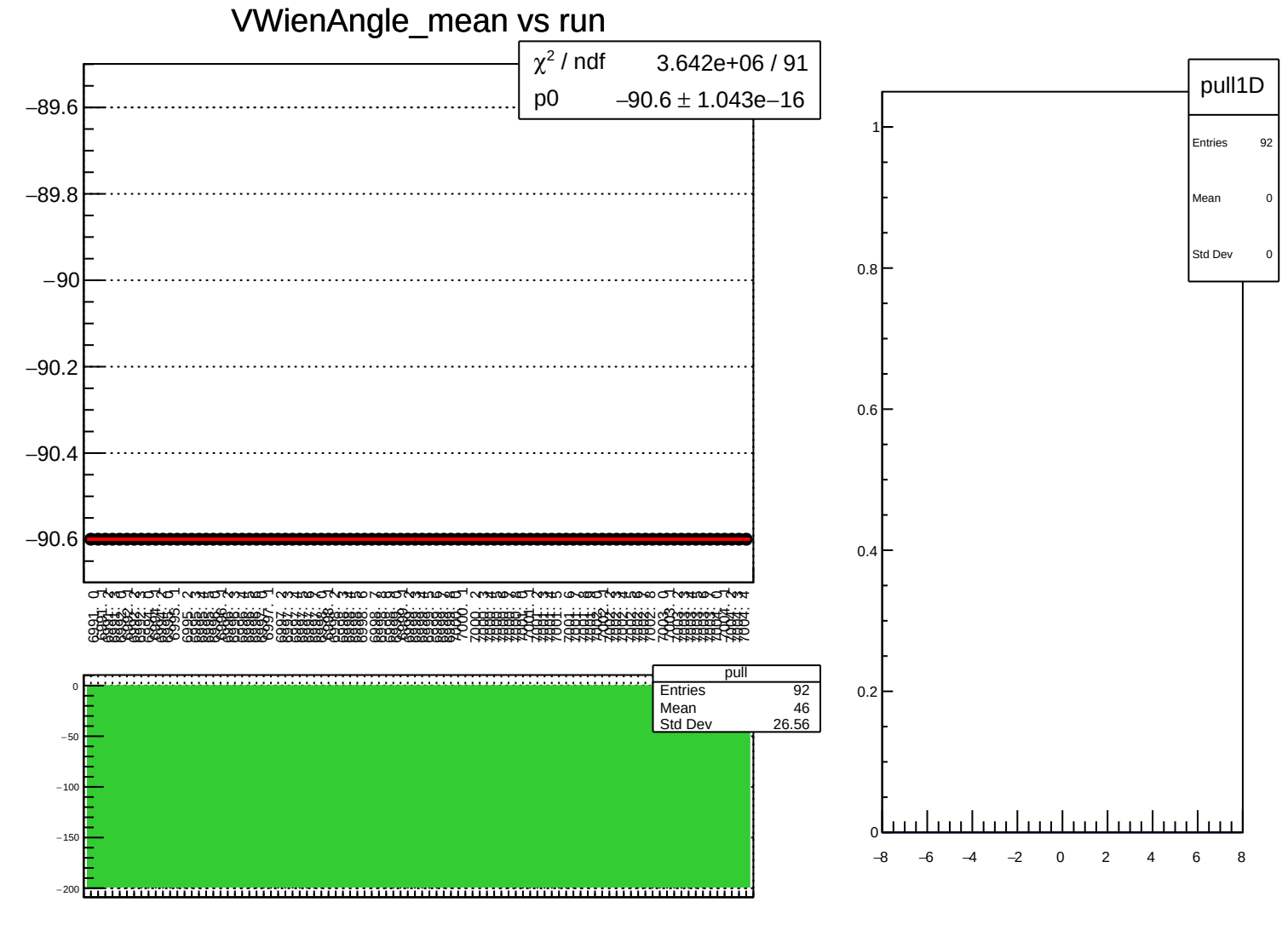

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

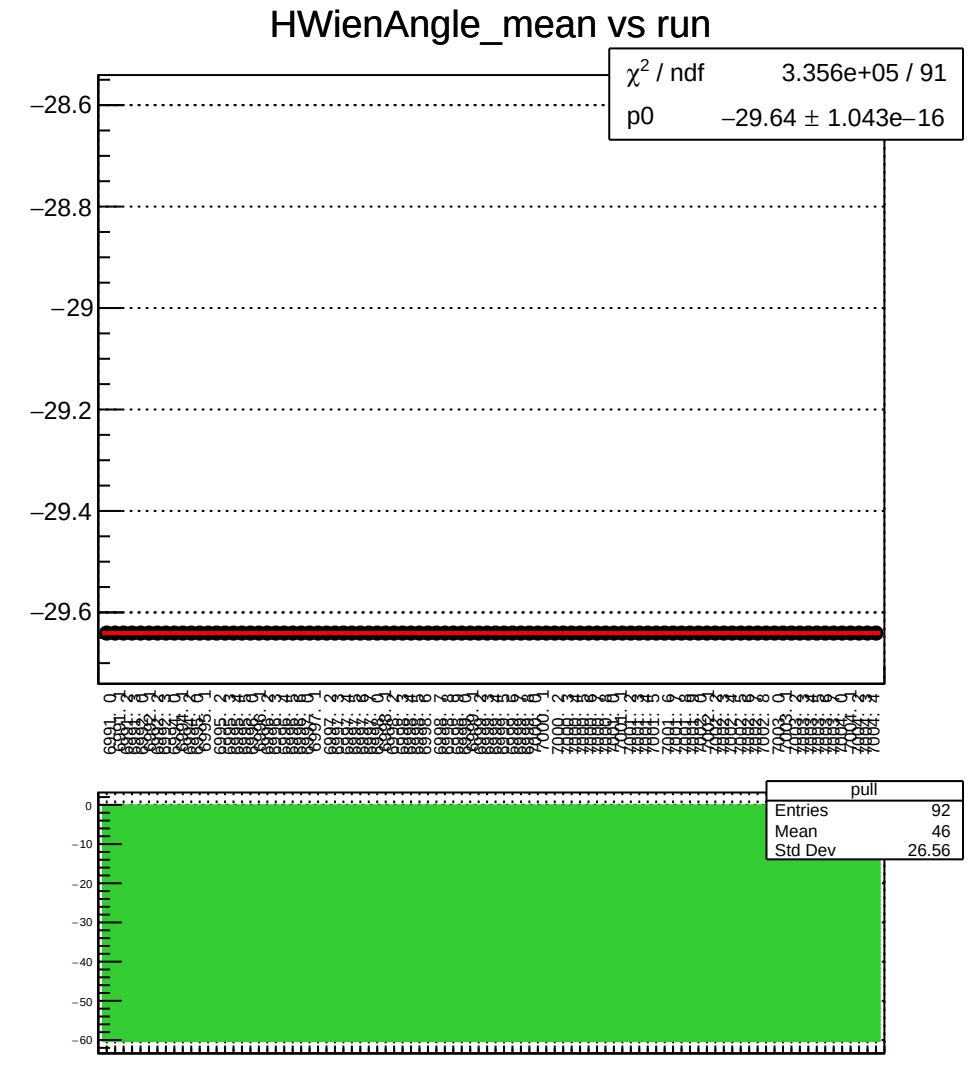

hesDipole_current_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56

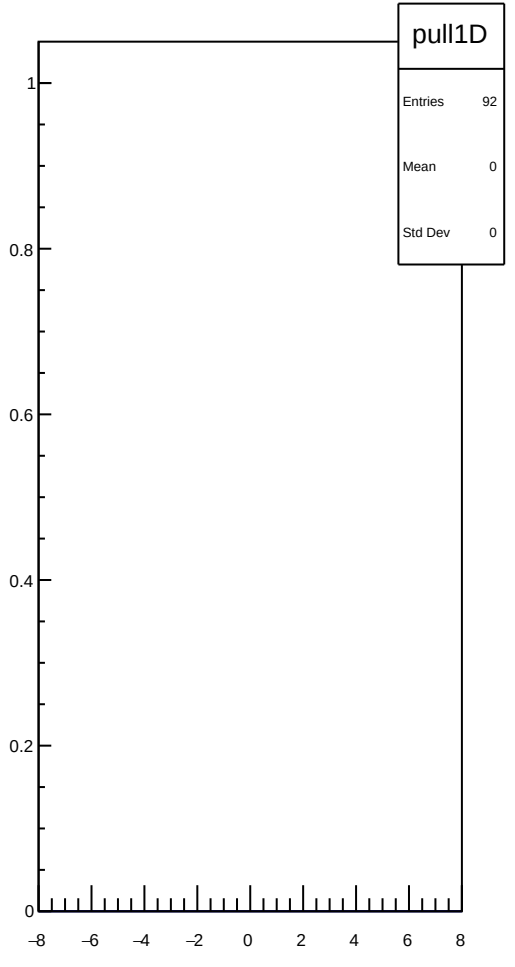

pull1D
Entries 92
Mean 0.02255
Std Dev 0

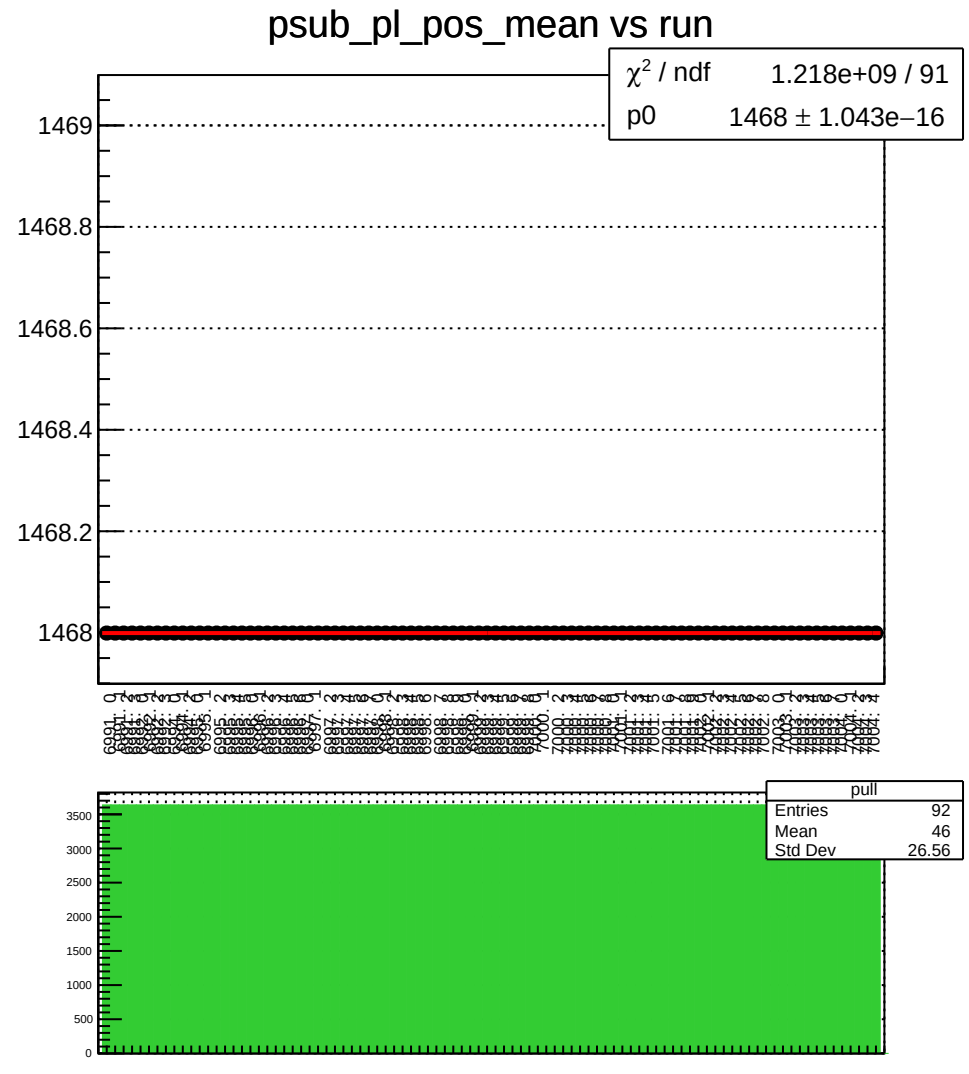

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
9.375
pull
Entries 92
Mean 46
Std Dev 26.56

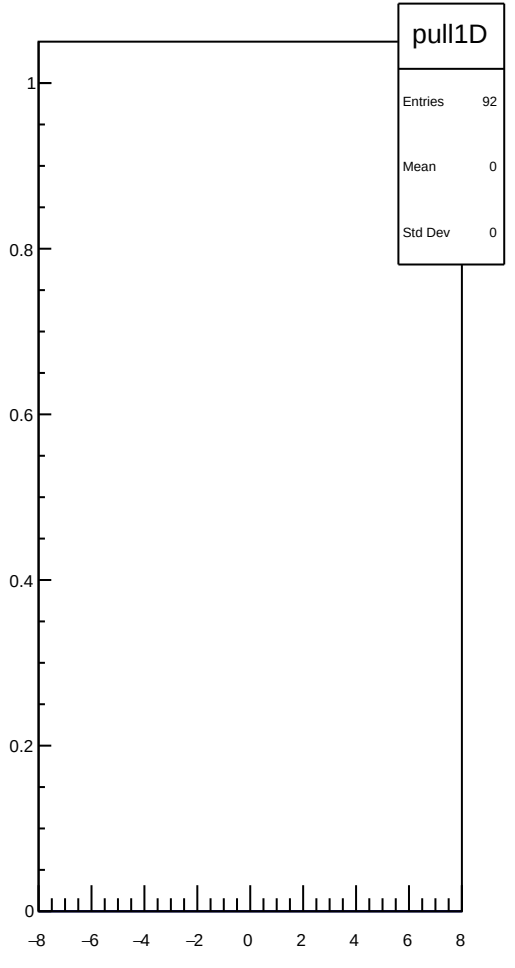

pull1D
Entries 92
Mean 0.02255
Std Dev 0

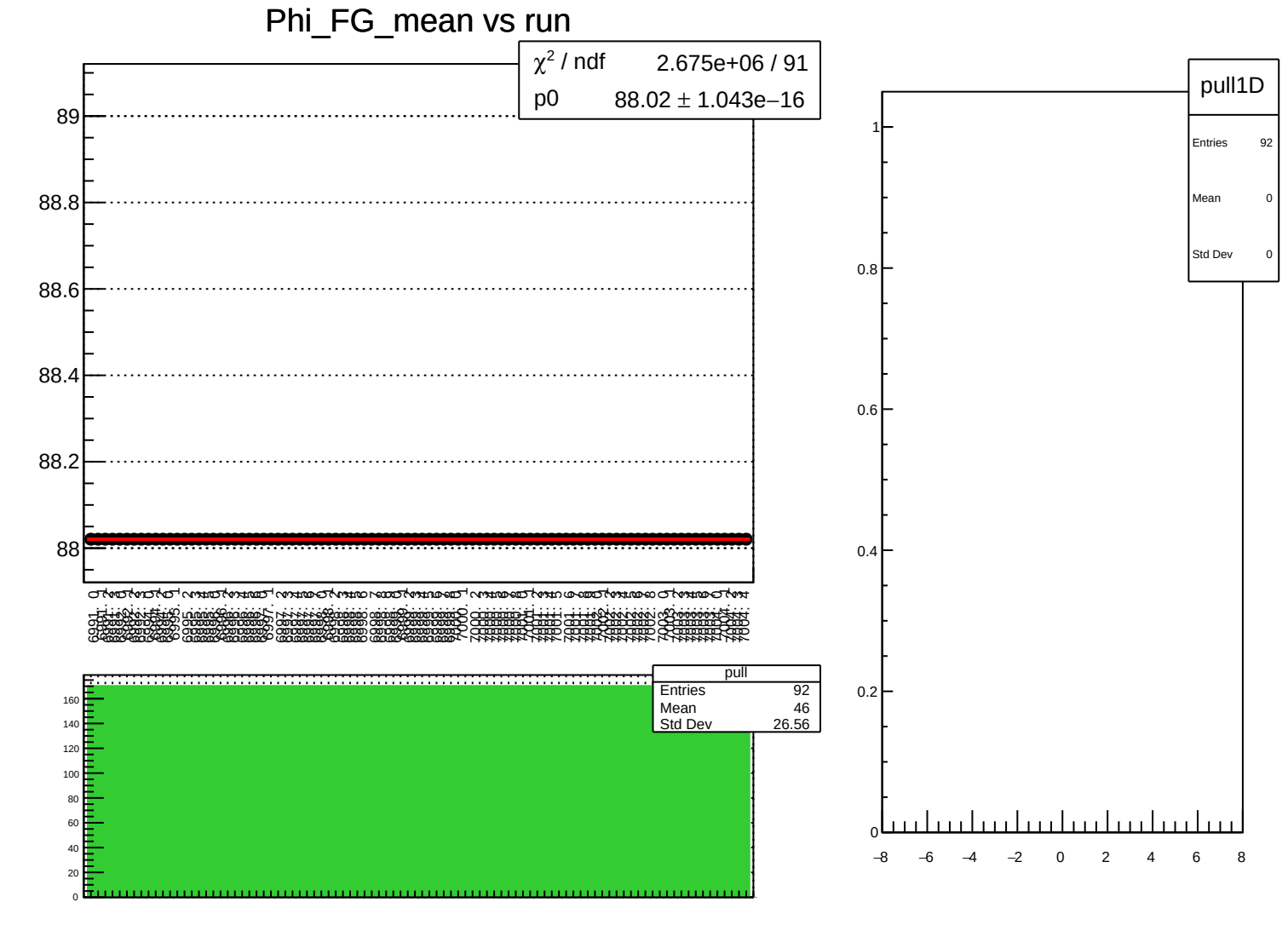

VWienAngle_mean vs run
χ² / ndf 3.642e+06 / 91
p0 −90.6 ± 1.043e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 92
Mean 46
Std Dev 26.56
0
−50
−100
−150
−200
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

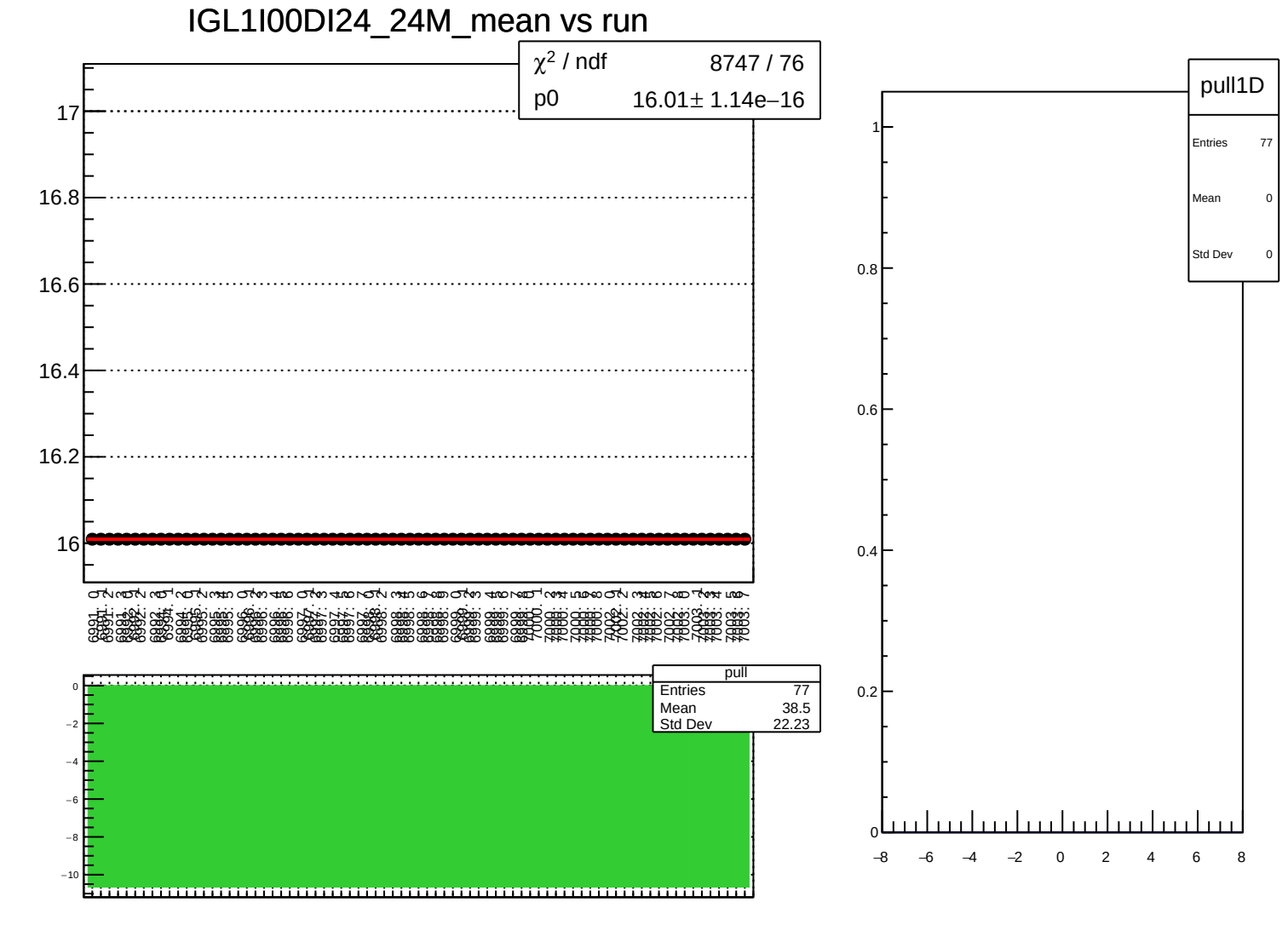

HWienAngle_mean vs run
χ² / ndf 3.356e+05 / 91
p0 −29.64 ± 1.043e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 92
Mean 46
Std Dev 26.56
0
−10
−20
−30
−40
−50
−60

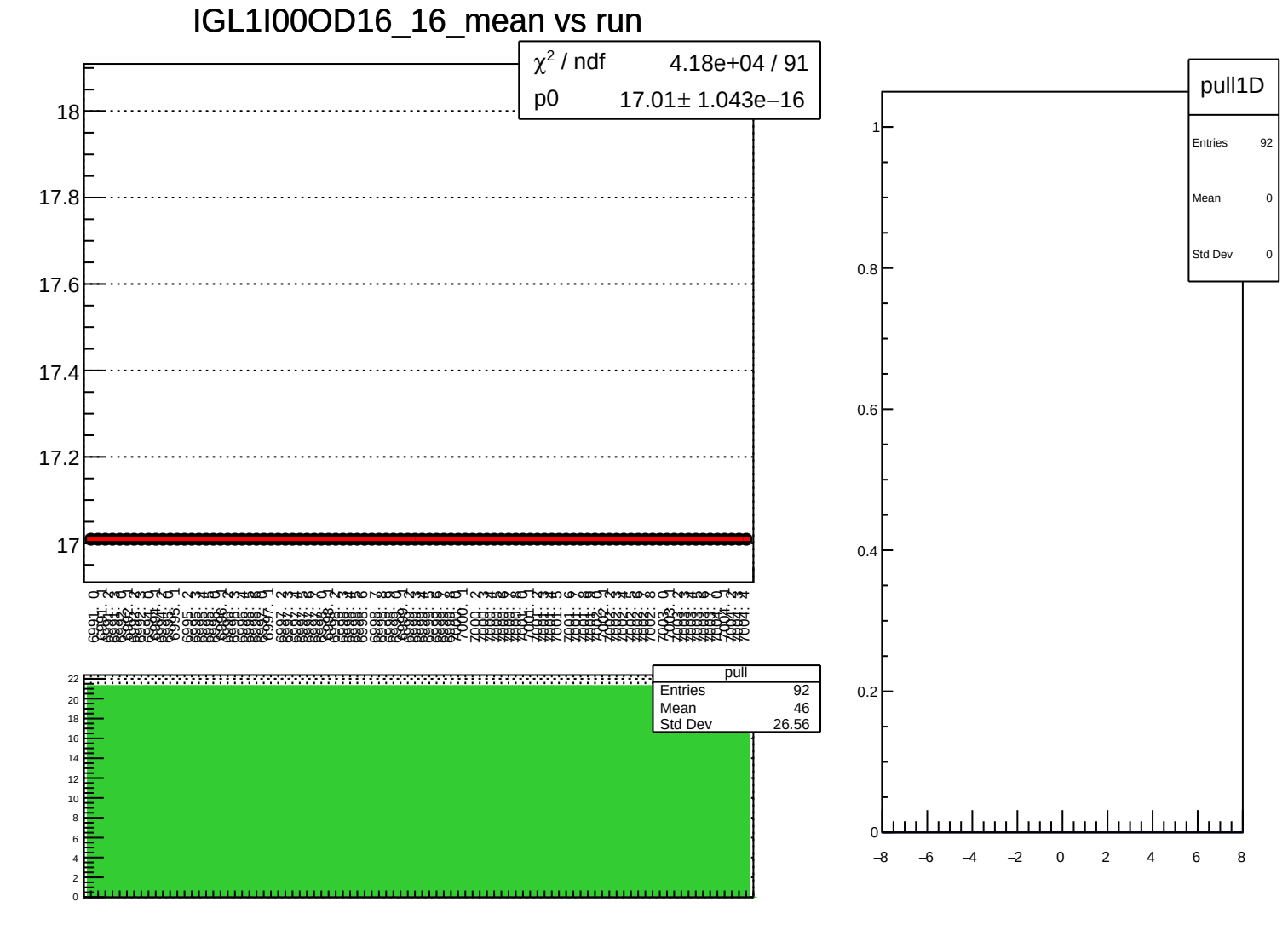

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

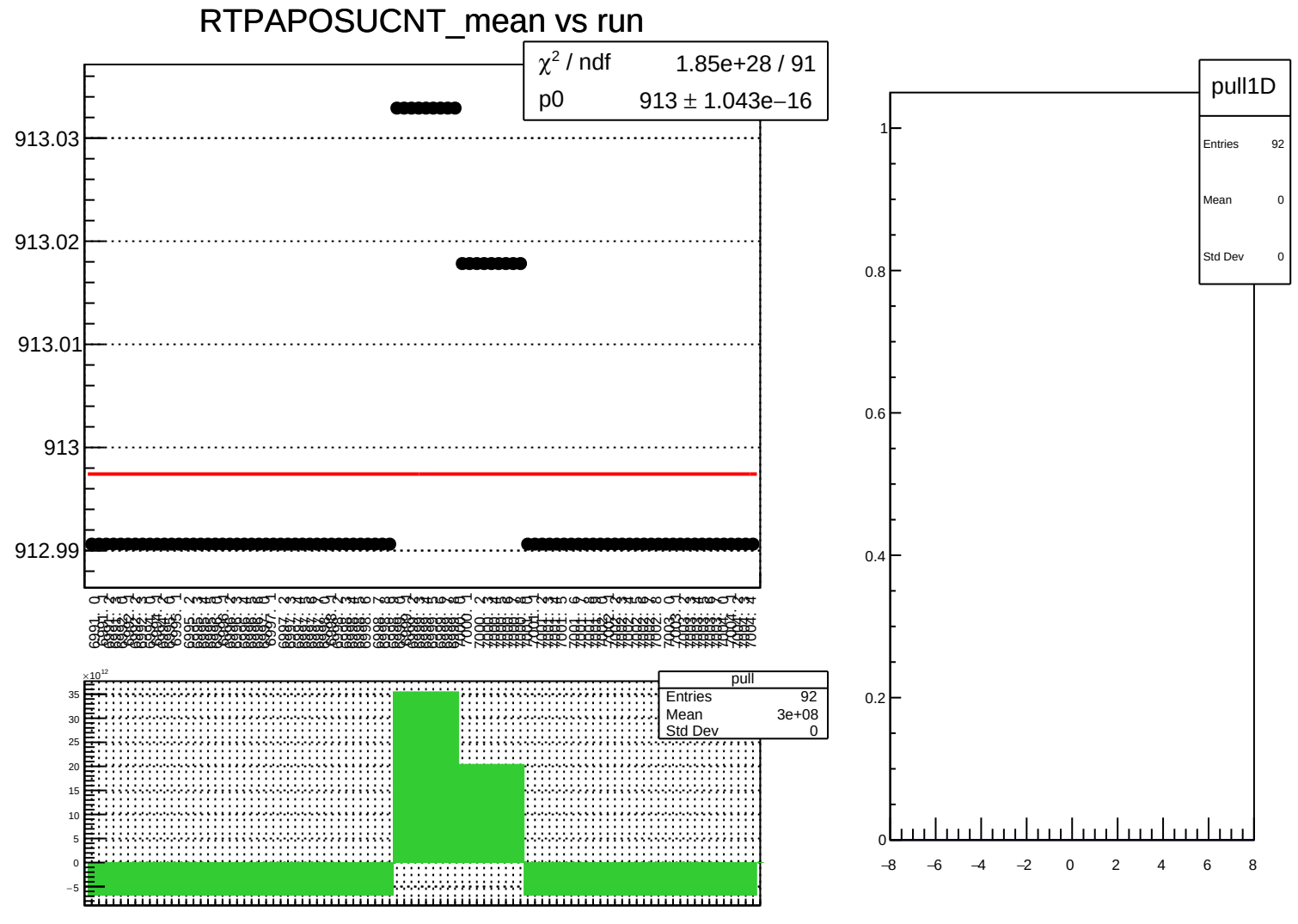

psub_pl_pos_mean vs run
χ² / ndf 1.218e+09 / 91
p0 1468 ± 1.043e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 92
Mean 46
Std Dev 26.56
3500
3000
2500
2000
1500
1000
500
0

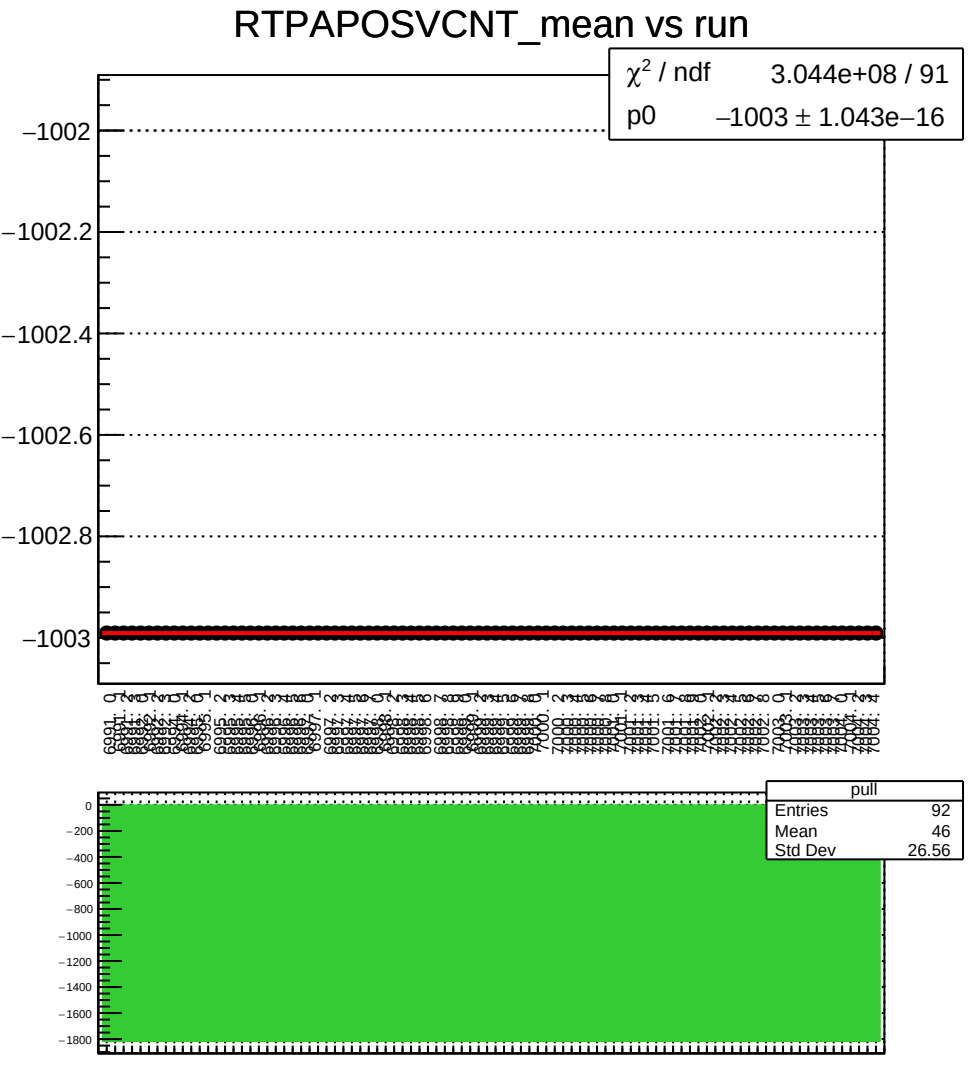

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

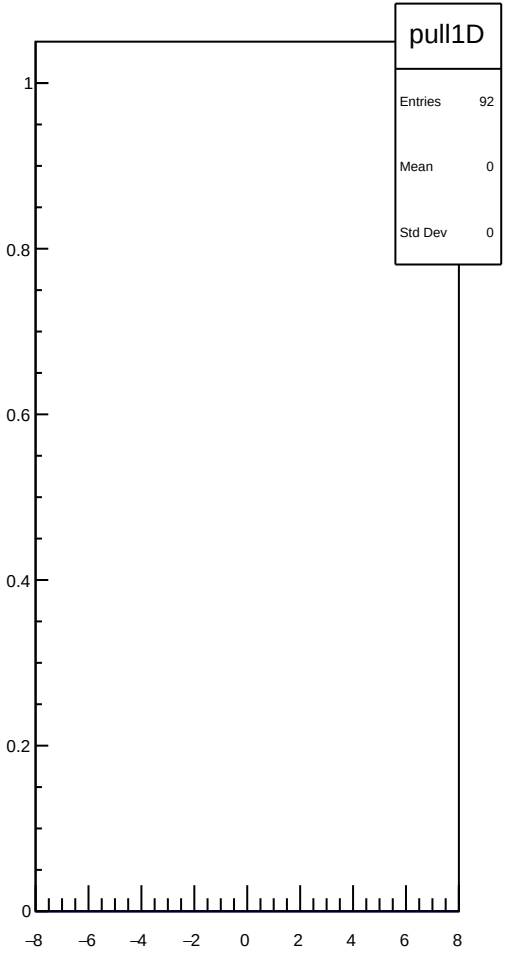

Phi_FG_mean vs run
χ² / ndf 2.675e+06 / 91
p0 88.02 ± 1.043e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 92
Mean 46
Std Dev 26.56
160
140
120
100
80
60
40
20
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

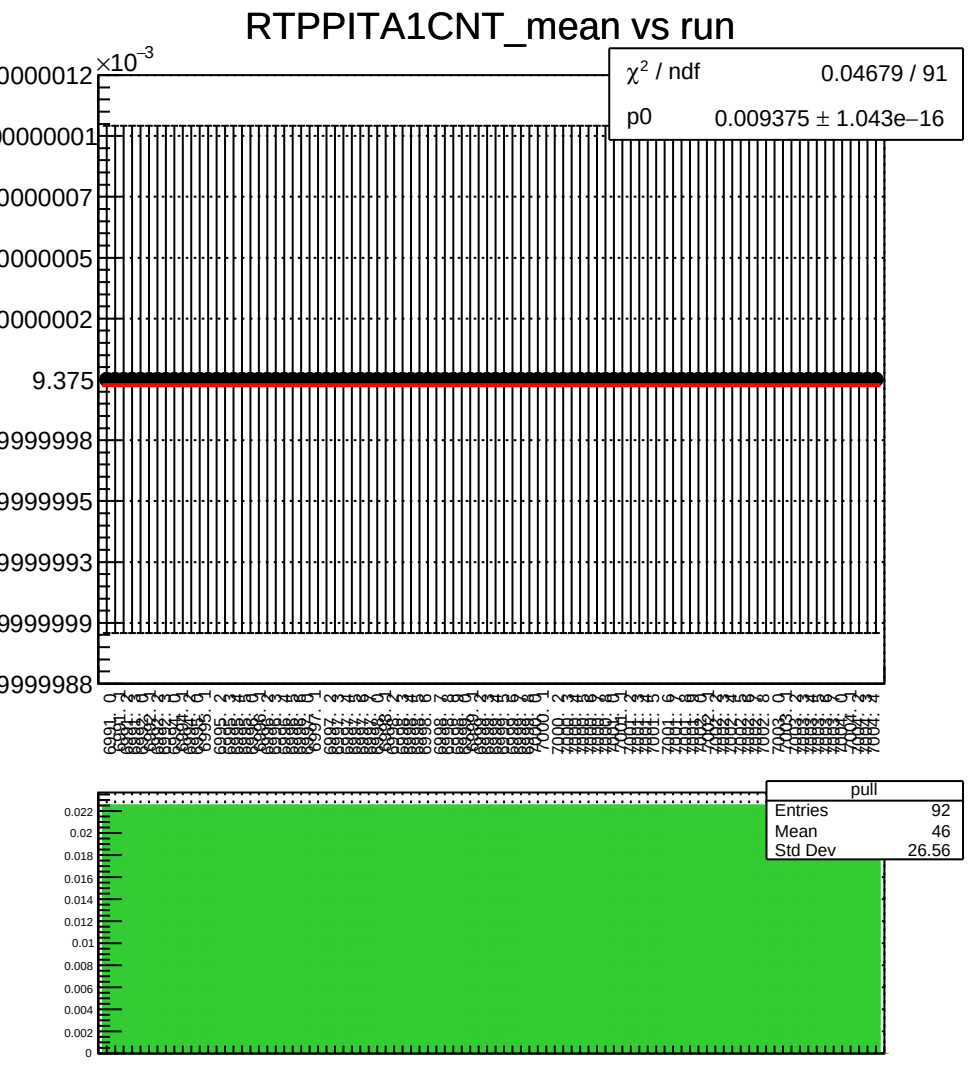

IGL1I00DI24_24M_mean vs run
χ² / ndf 8747 / 76
p0 16.01± 1.14e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 77
Mean 38.5
Std Dev 22.23
0
−2
−4
−6
−8
−10
pull1D
Entries 77
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

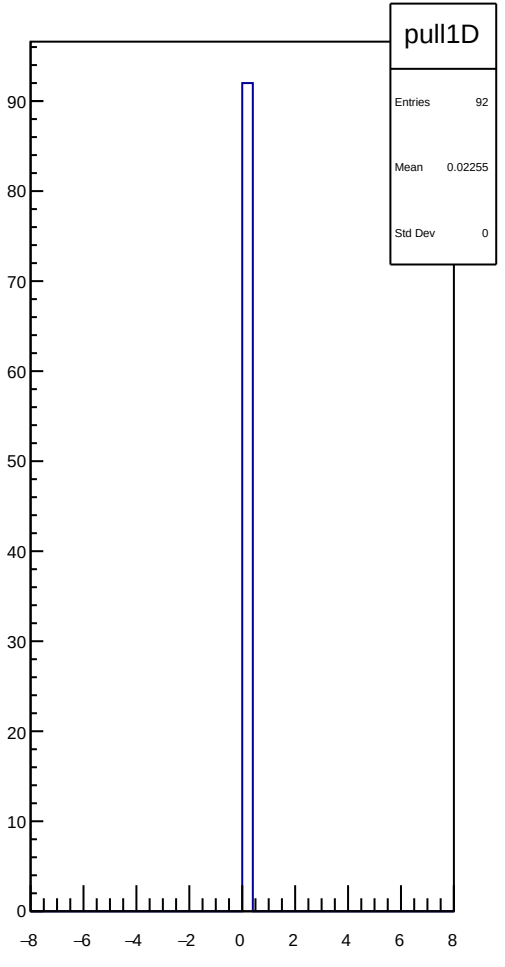

IGL1I00OD16_16_mean vs run
χ² / ndf 4.18e+04 / 91
p0 17.01± 1.043e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 92
Mean 46
Std Dev 26.56
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

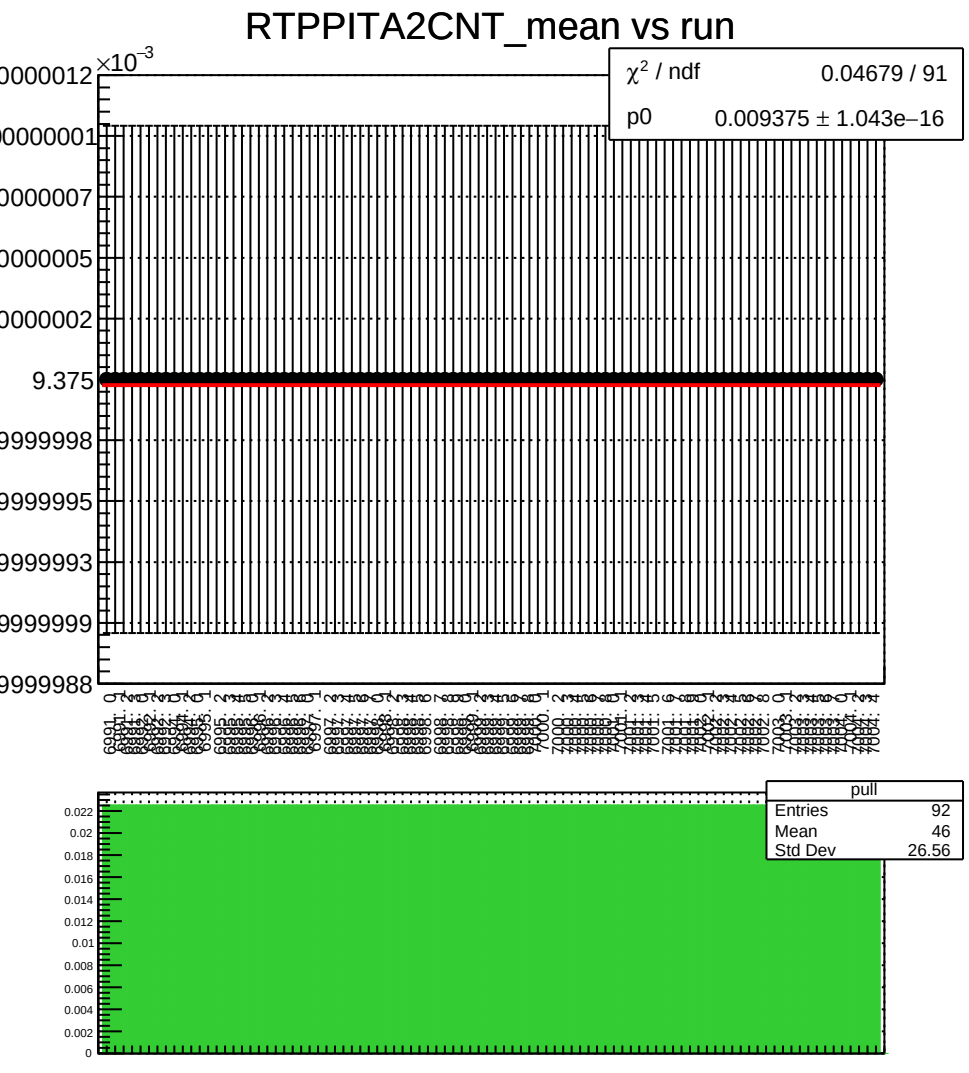

RTPAPOSUCNT_mean vs run
χ² / ndf 1.85e+28 / 91
p0 913 ± 1.043e−16
913.03
913.02
913.01
913
912.99
pull
Entries 92
Mean 3e+08
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0

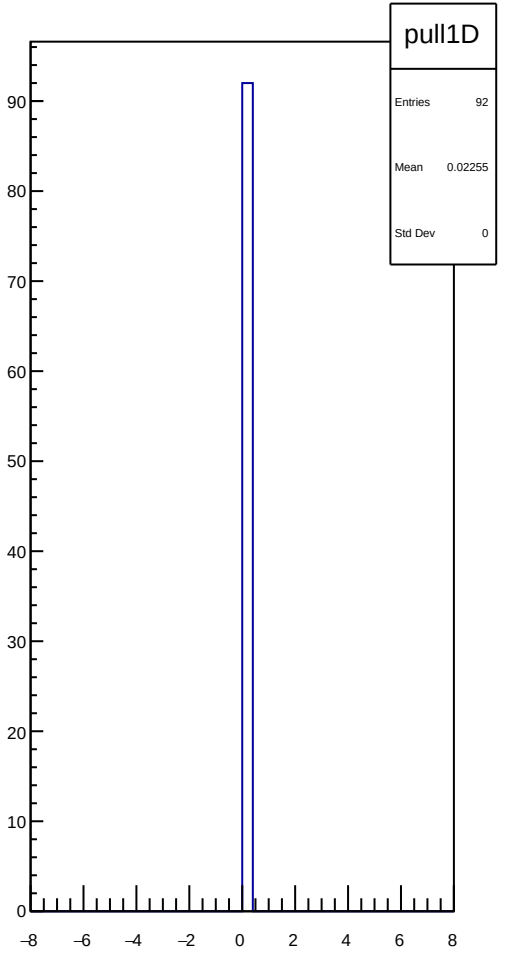

RTPAPOSVCNT_mean vs run
χ² / ndf 3.044e+08 / 91
p0 −1003 ± 1.043e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 92
Mean 46
Std Dev 26.56
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800


pull1D
Entries 92
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 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56


pull1D
Entries 92
Mean 0.02255
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56


pull1D
Entries 92
Mean 0.02255
Std Dev 0