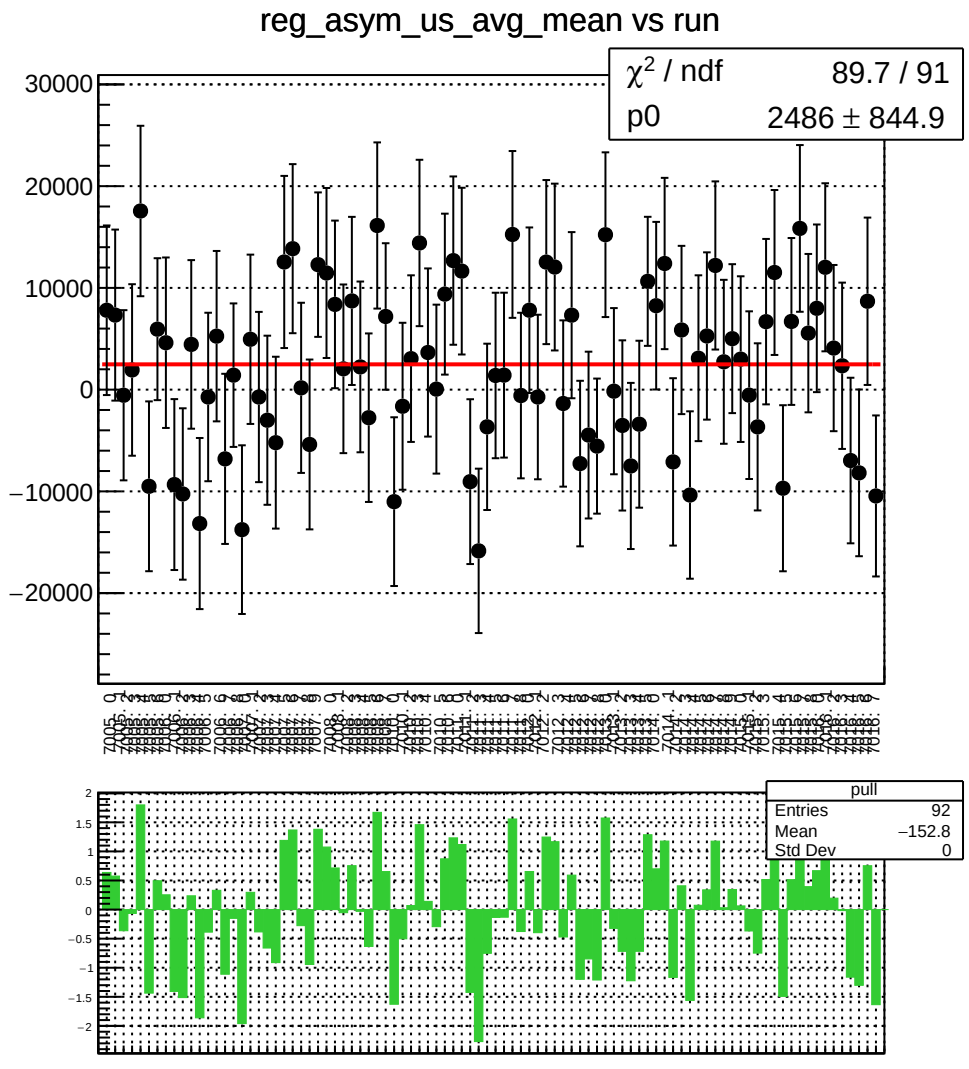
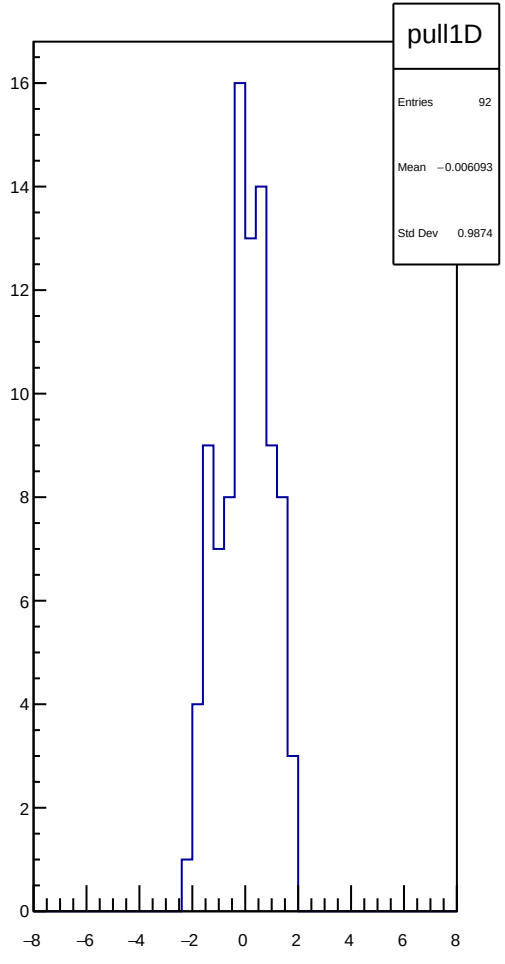
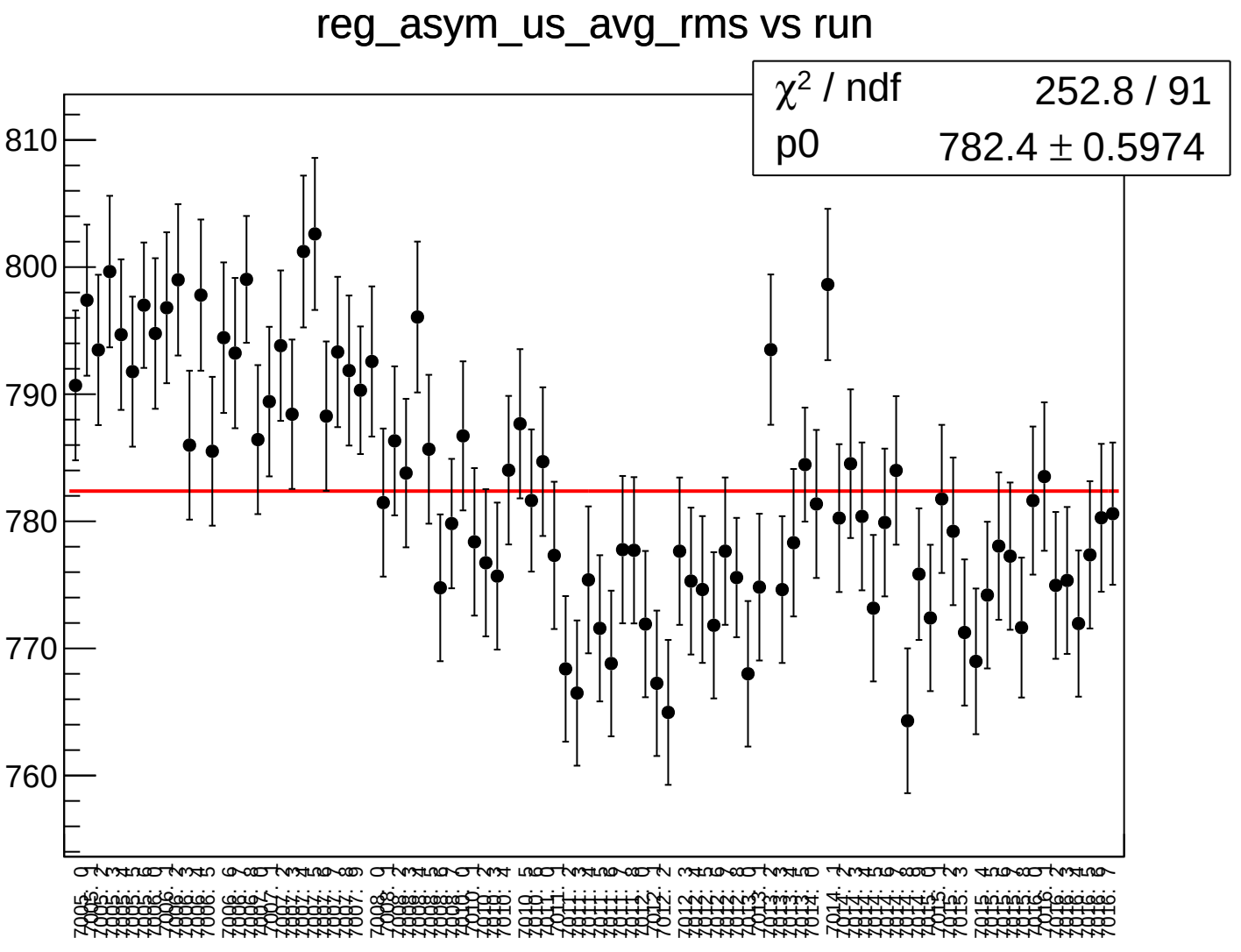
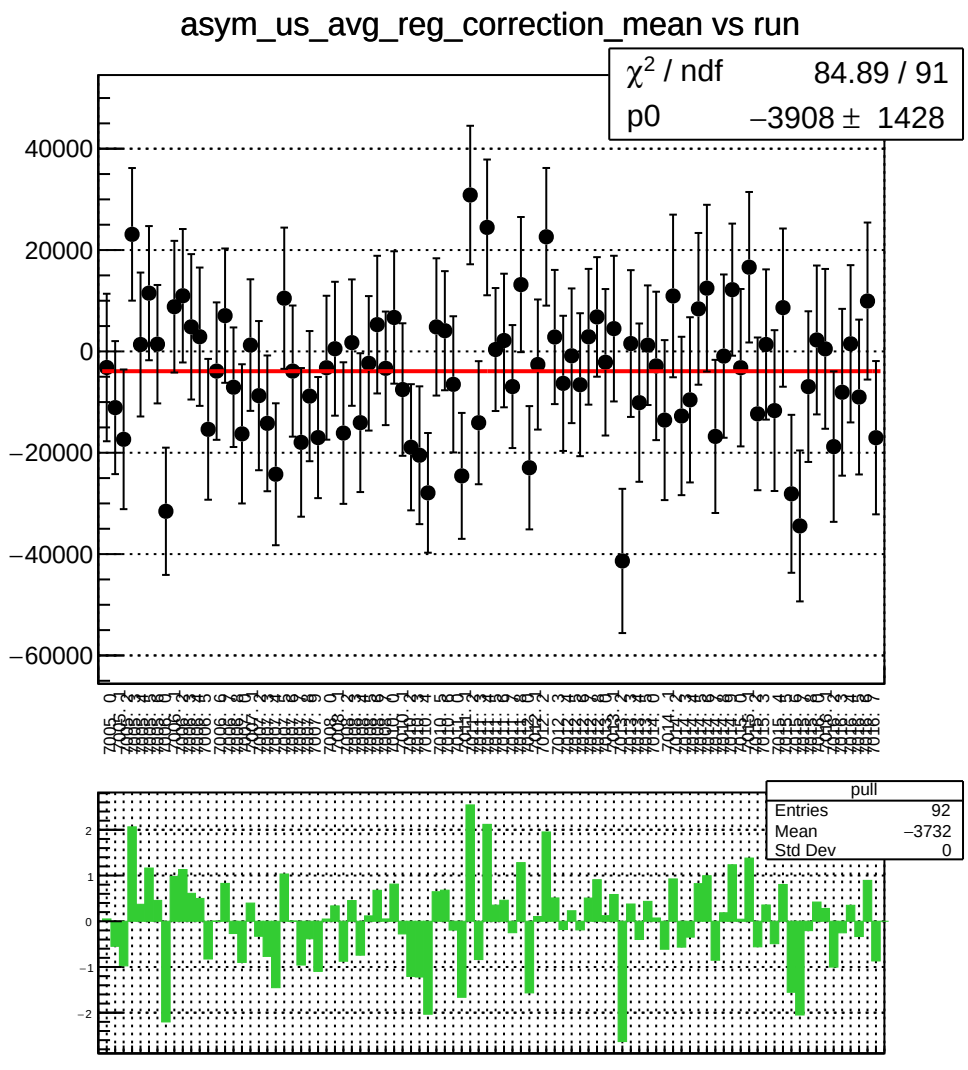
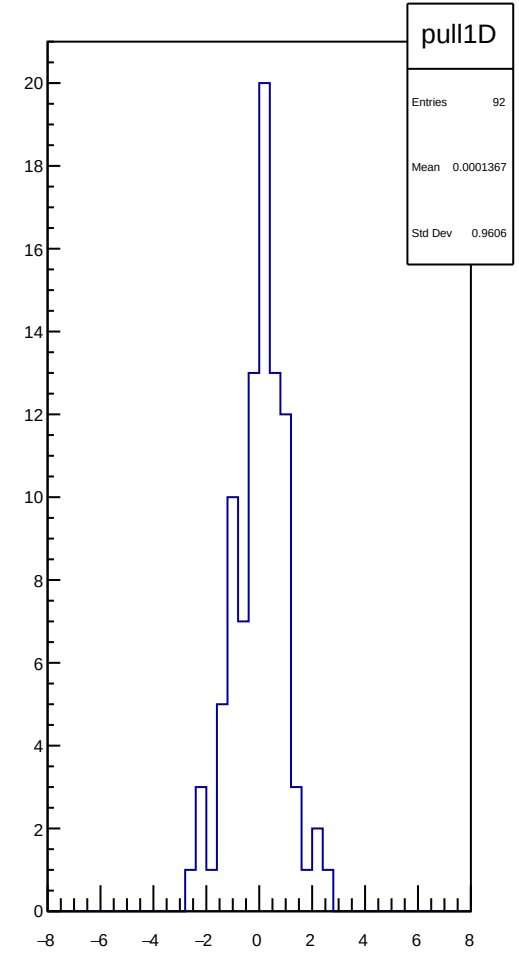
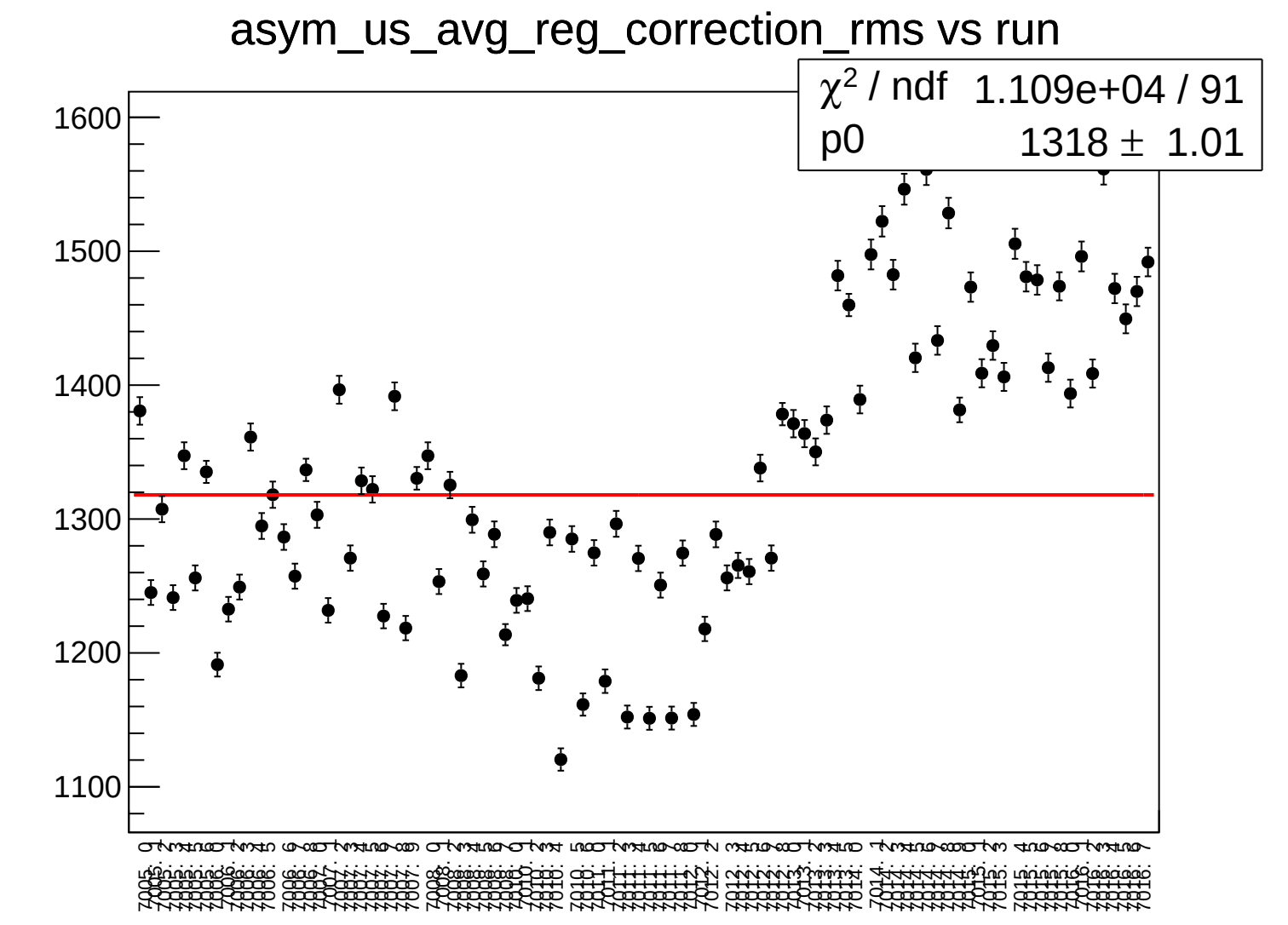

reg_asym_us_avg_mean vs run
χ² / ndf 89.7 / 91
p0 2486 ± 844.9
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −152.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

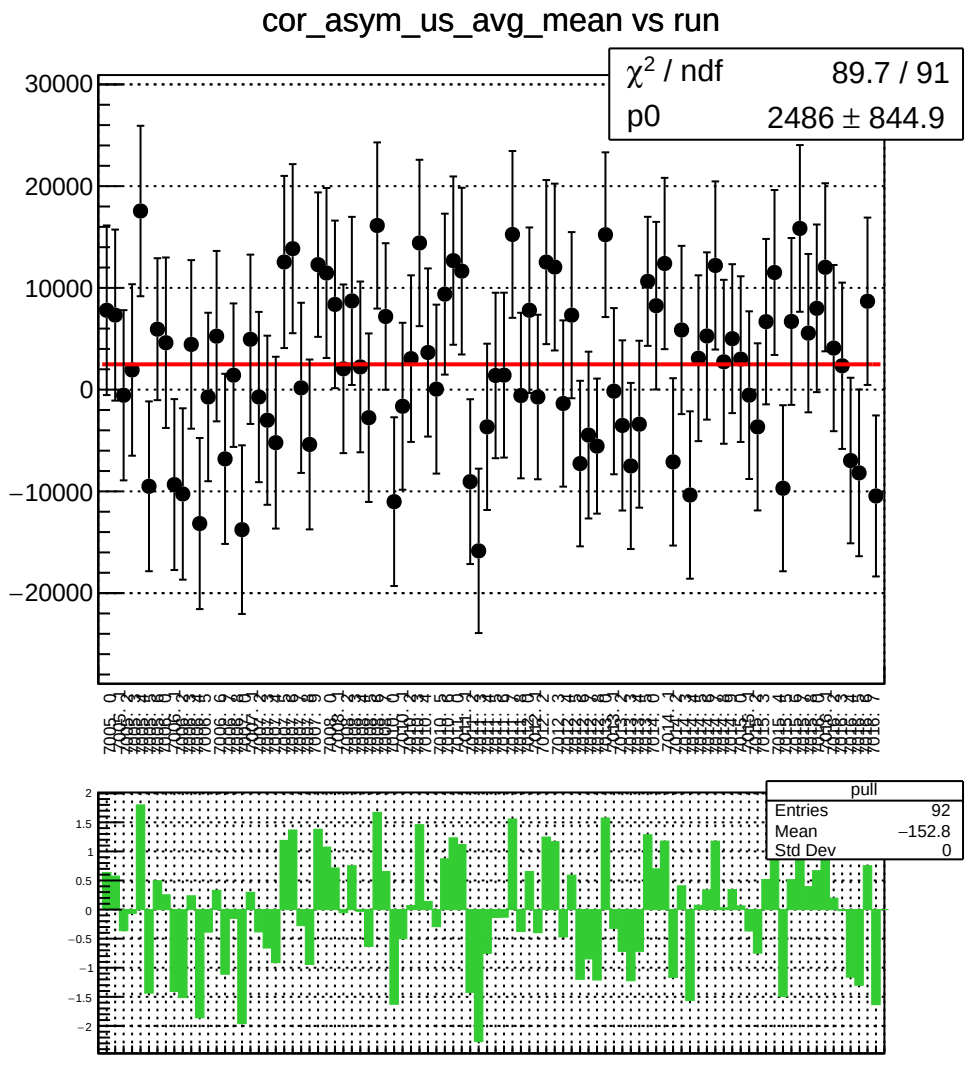

pull1D
Entries 92
Mean −0.006093
Std Dev 0.9874
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

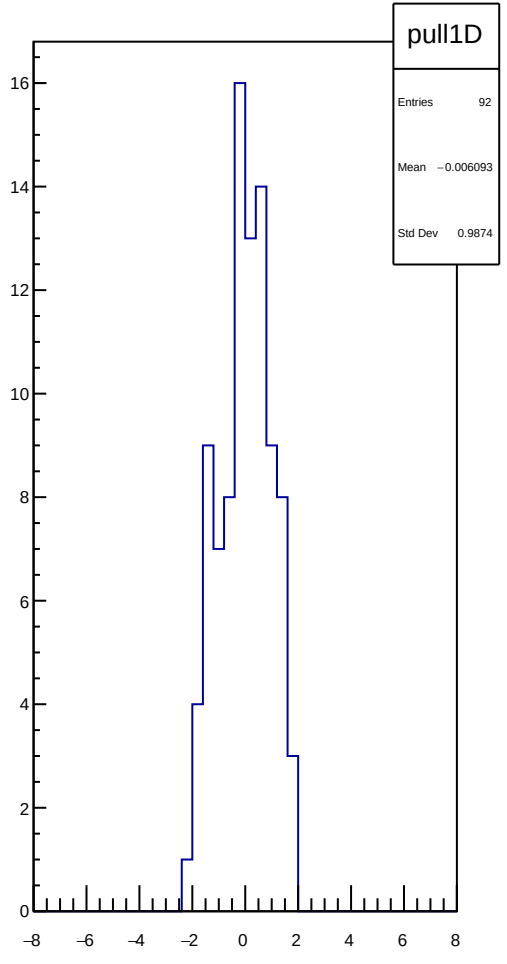

reg_asym_us_avg_rms vs run
$\chi^2$ / ndf 252.8 / 91
p0 782.4 ± 0.5974
810
800
790
780
770
760


asym_us_avg_reg_correction_mean vs run
χ² / ndf 84.89 / 91
p0 −3908 ± 1428
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −3732
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean 0.0001367
Std Dev 0.9606
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 1.109e+04 / 91
p0 1318 ± 1.01
1600
1500
1400
1300
1200
1100


cor_asym_us_avg_mean vs run
χ² / ndf 89.7 / 91
p0 2486 ± 844.9
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −152.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 92
Mean −0.006093
Std Dev 0.9874
16
14
12
10
8
6
4
2
0
−8
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−4
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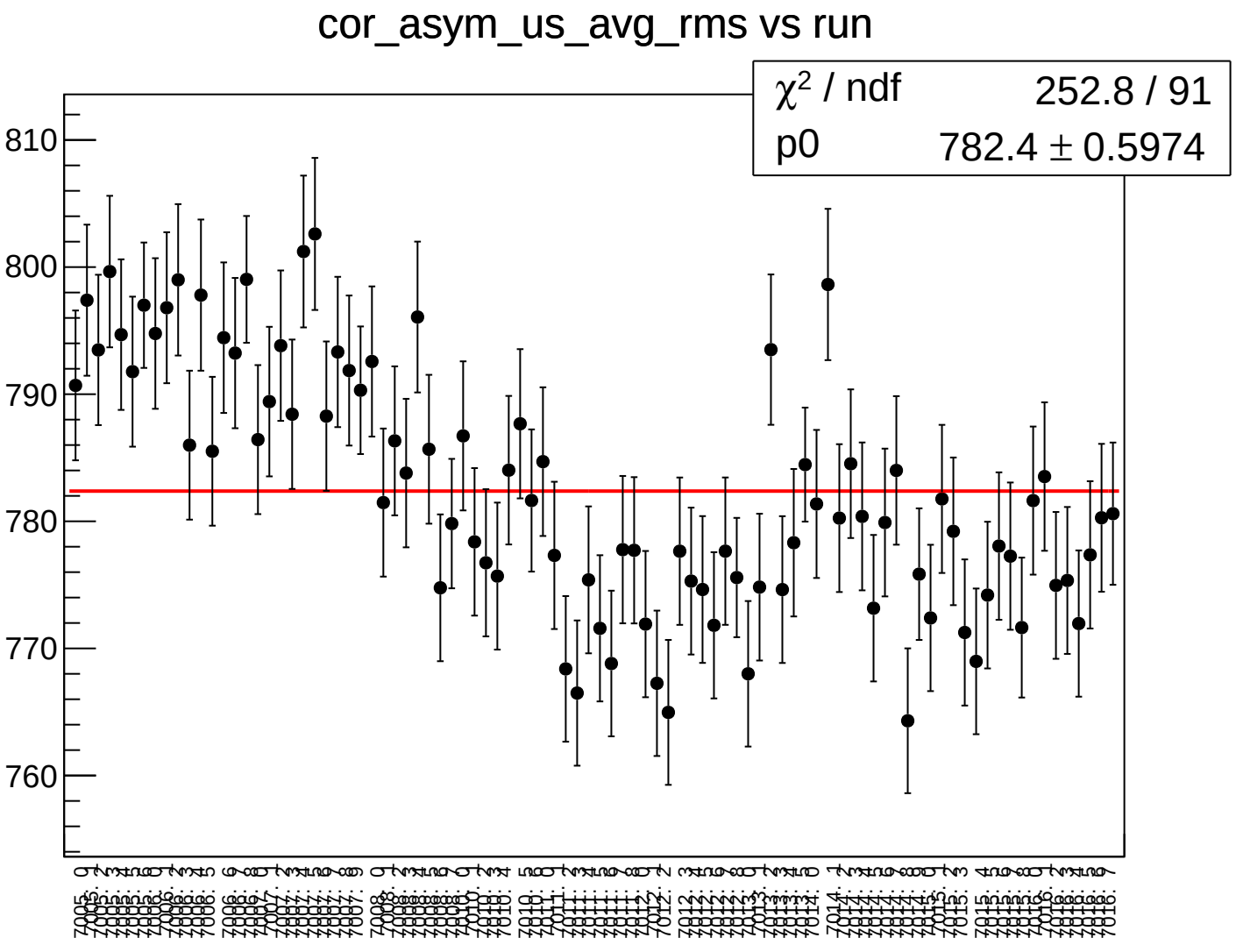
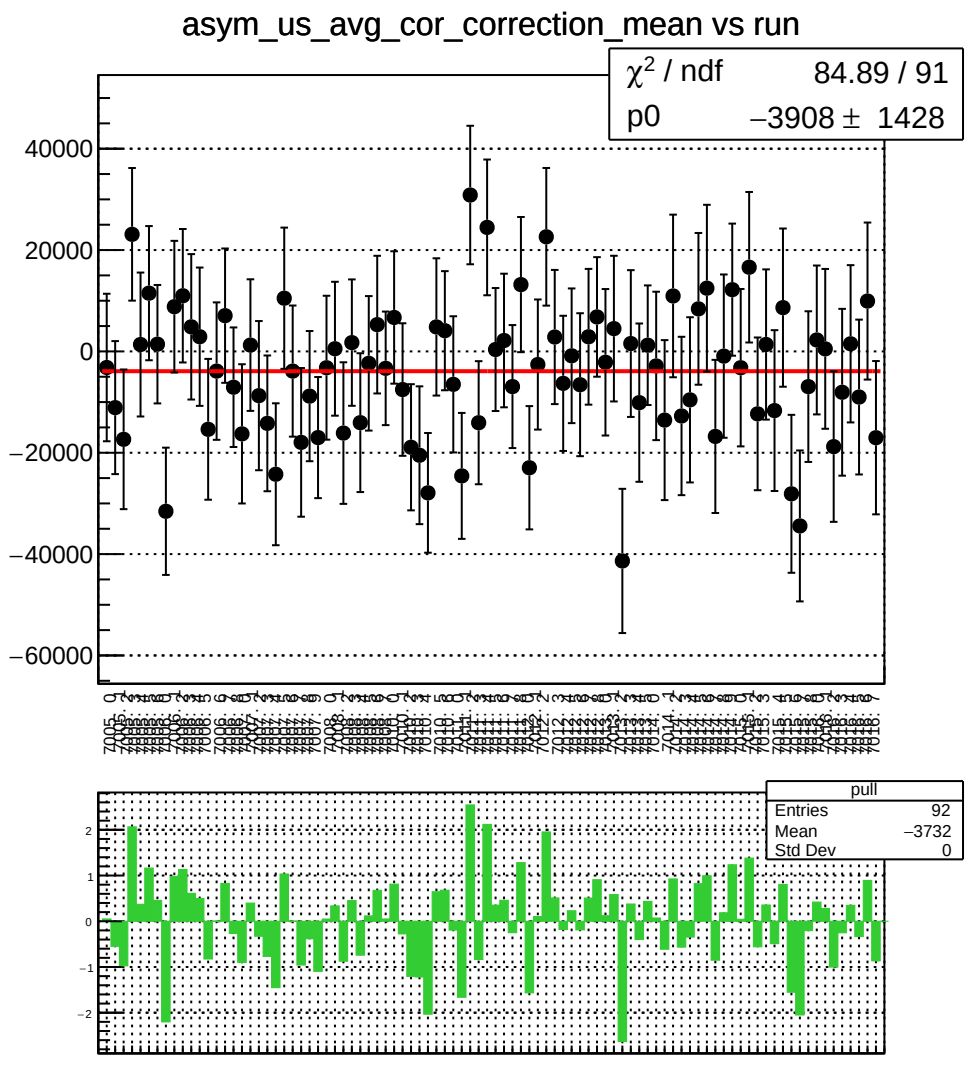
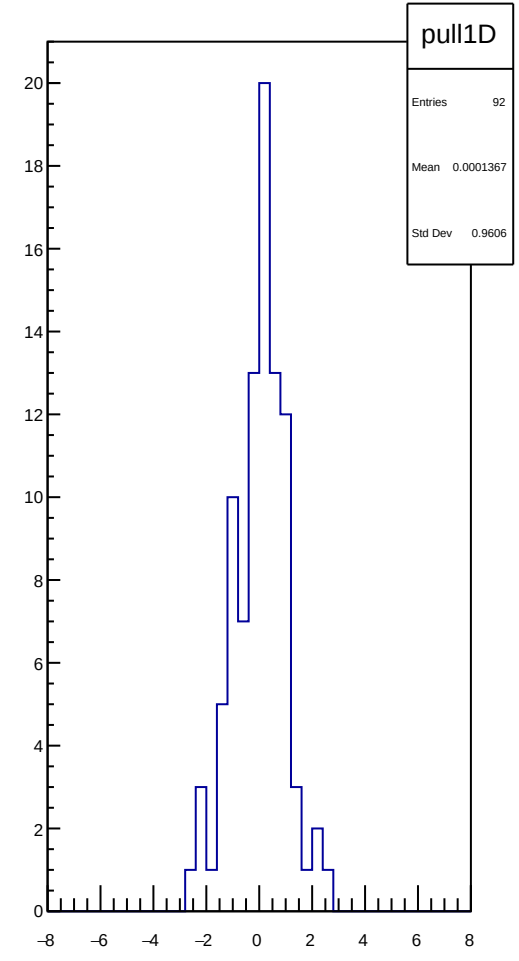
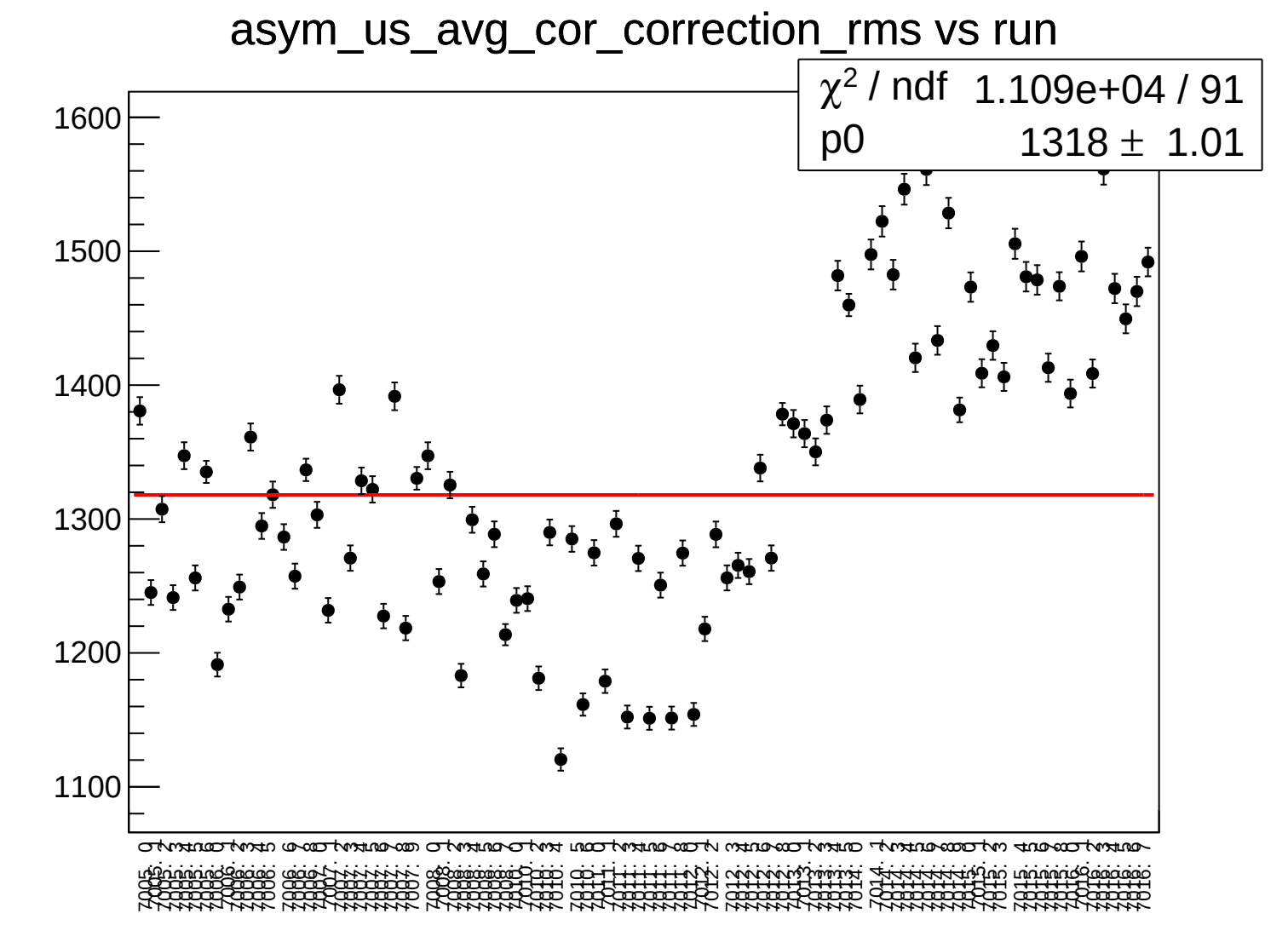
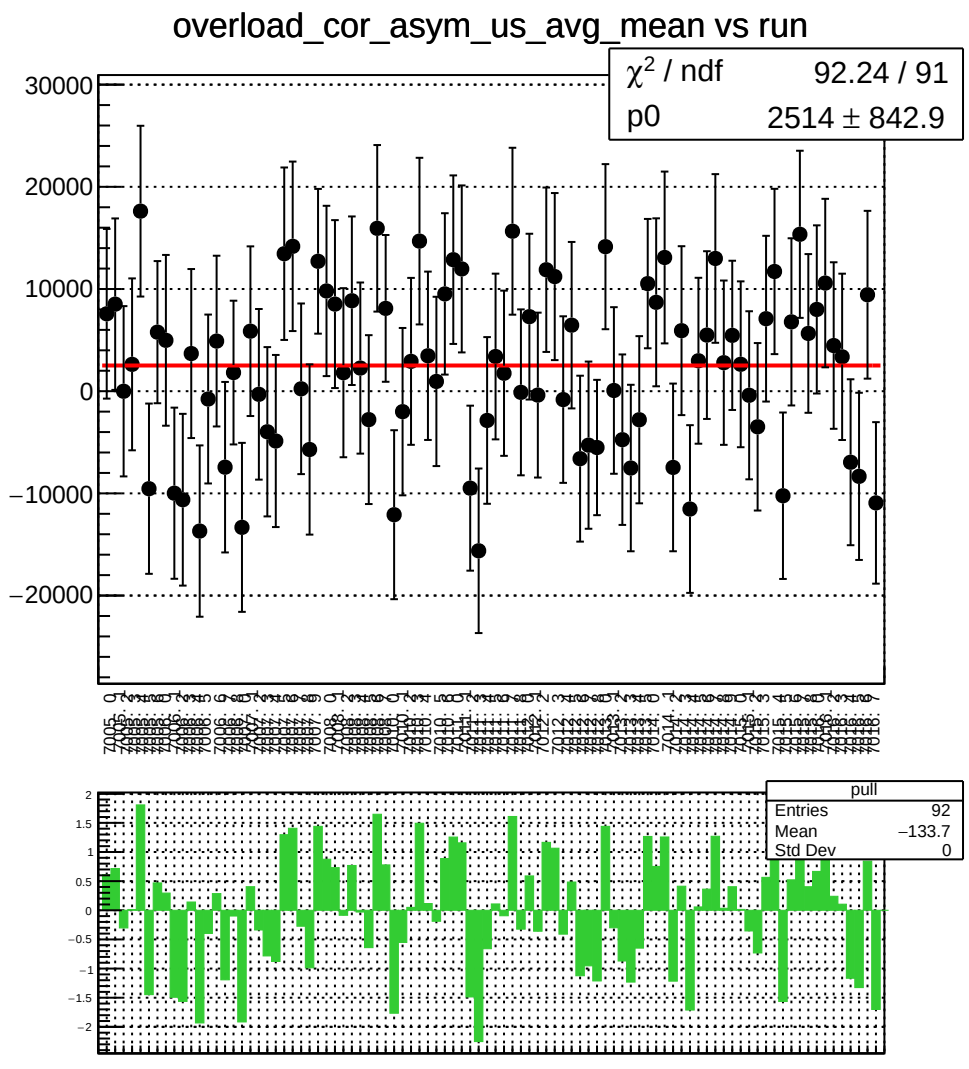
2
4
6
8

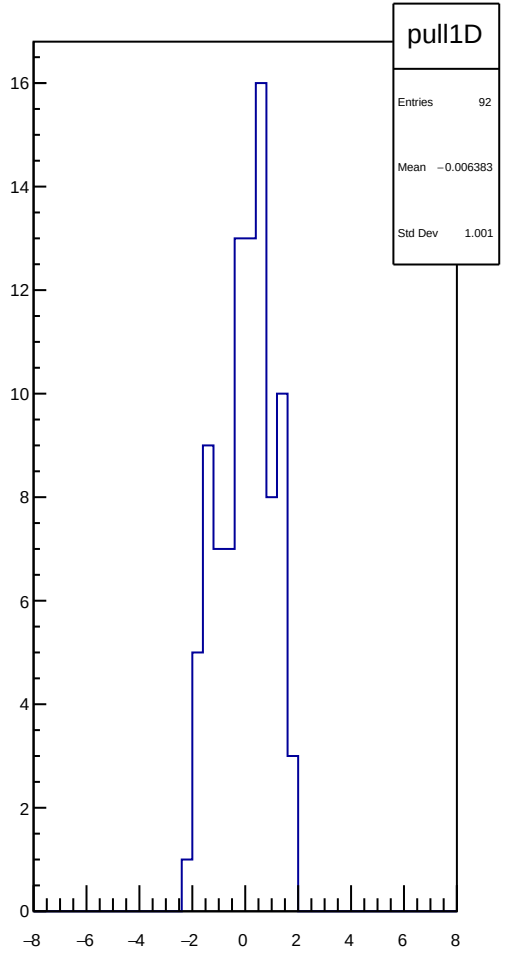

cor_asym_us_avg_rms vs run
χ² / ndf 252.8 / 91
p0 782.4 ± 0.5974
810
800
790
780
770
760


asym_us_avg_cor_correction_mean vs run
χ² / ndf 84.89 / 91
p0 −3908 ± 1428
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −3732
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean 0.0001367
Std Dev 0.9606
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_cor_correction_rms vs run
χ² / ndf 1.109e+04 / 91
p0 1318 ± 1.01
1600
1500
1400
1300
1200
1100


overload_cor_asym_us_avg_mean vs run
χ² / ndf 92.24 / 91
p0 2514 ± 842.9
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −133.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 92
Mean −0.006383
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
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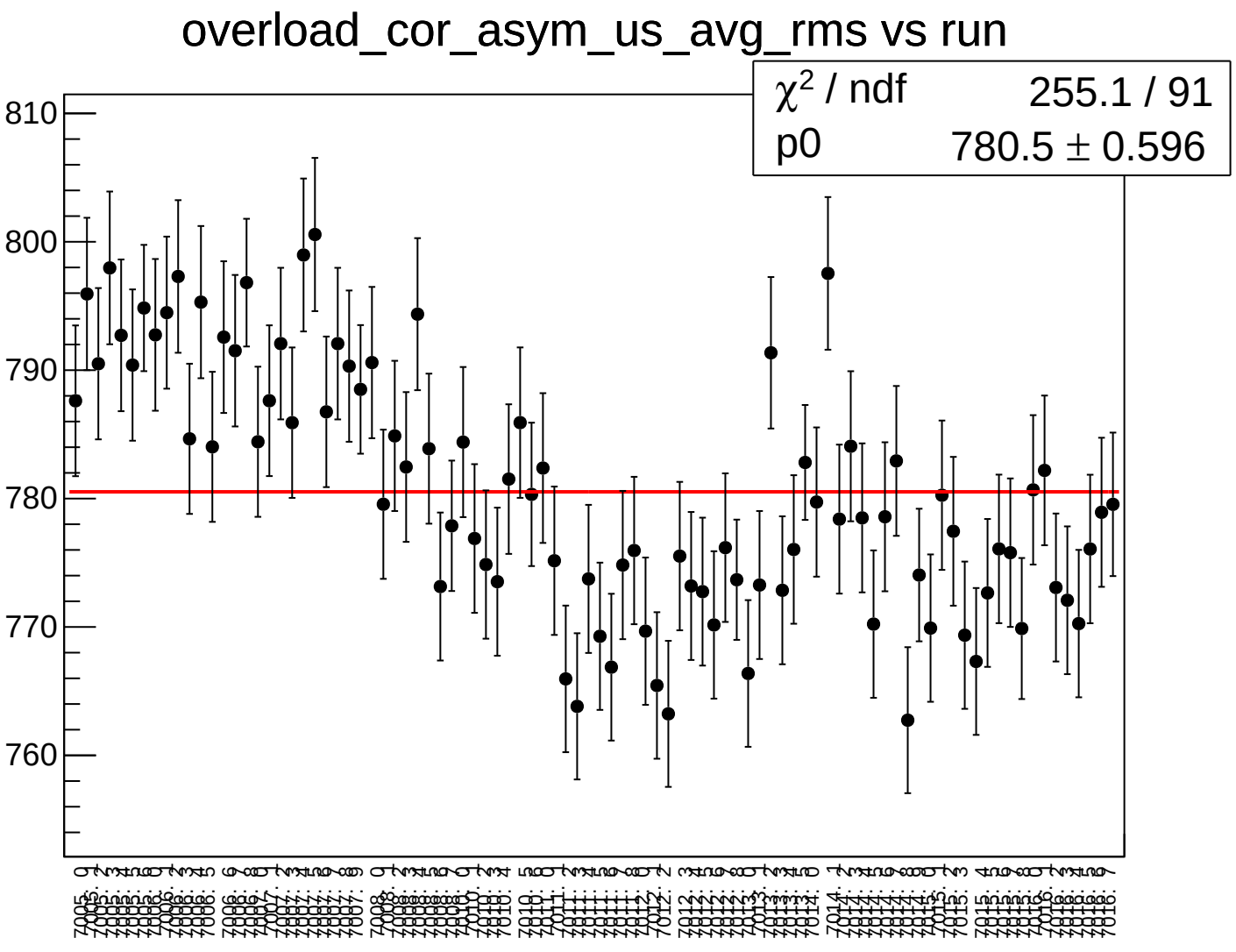
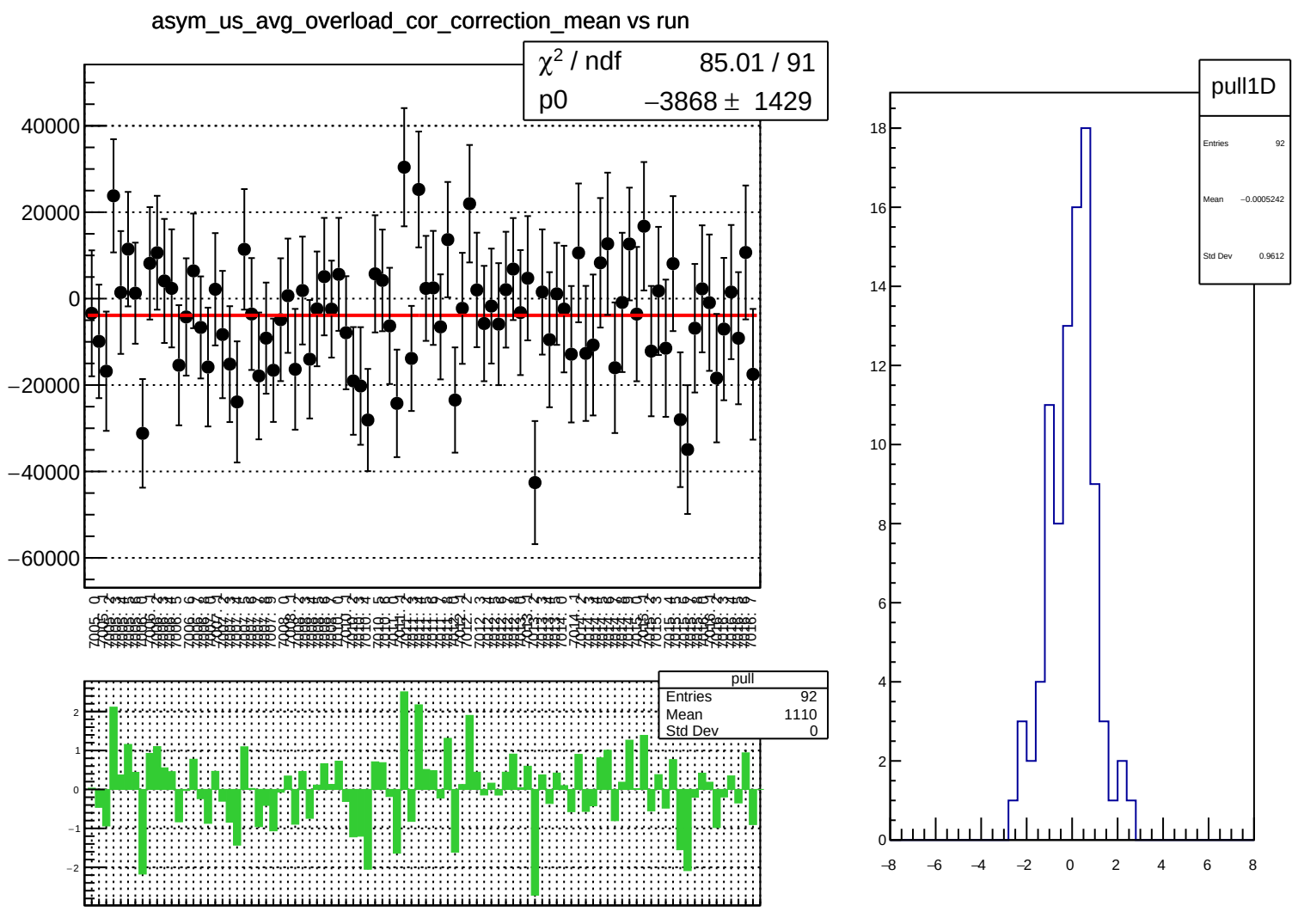
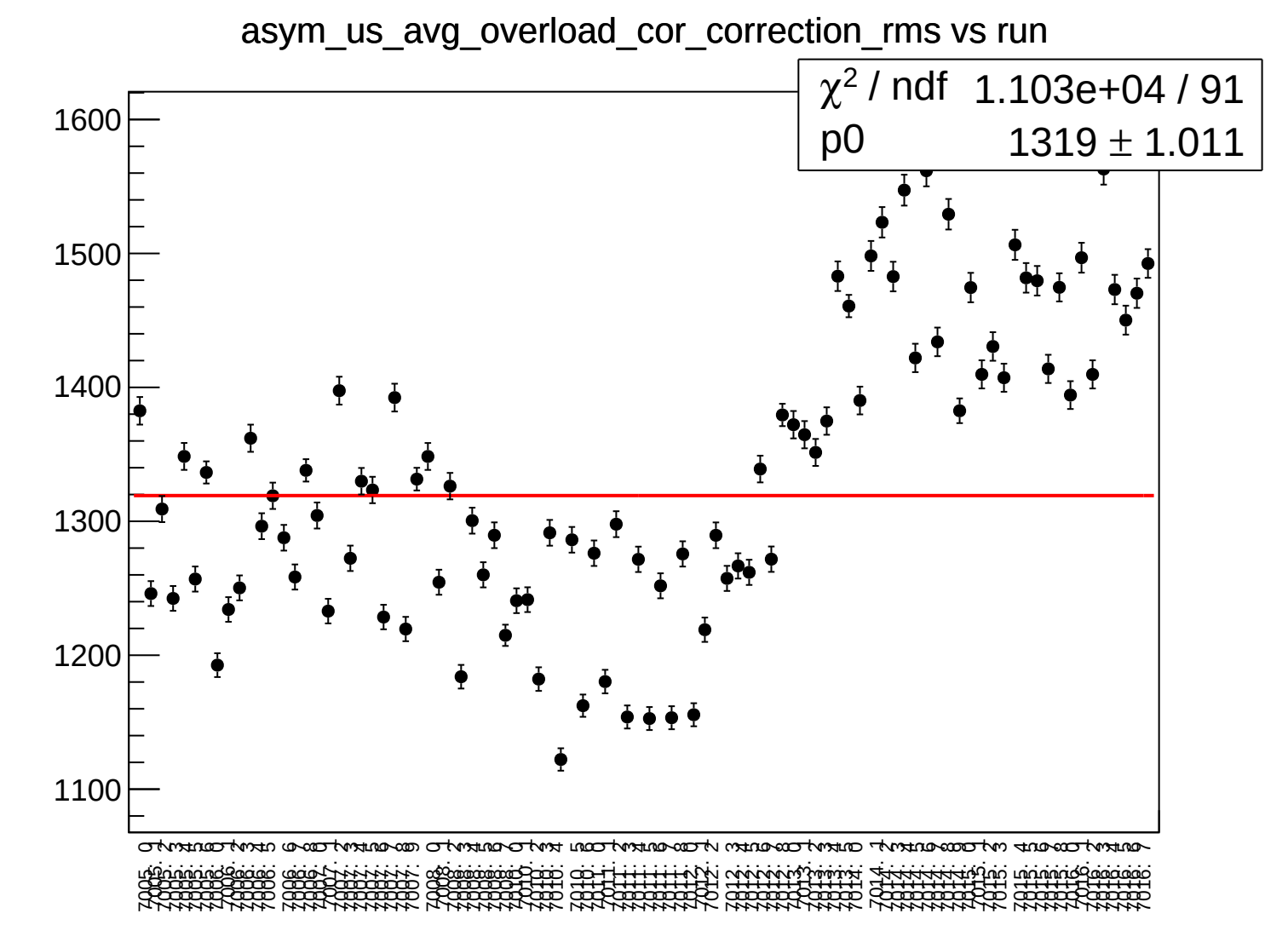
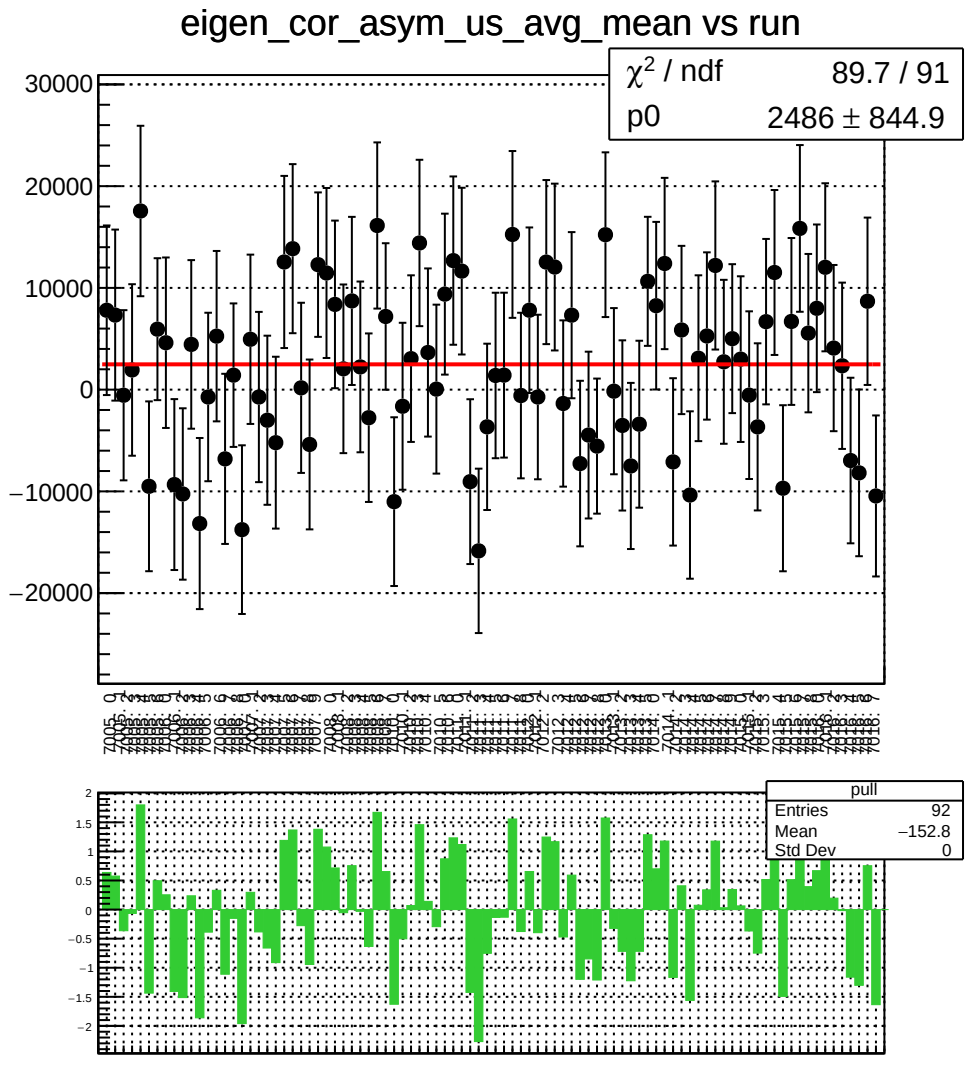
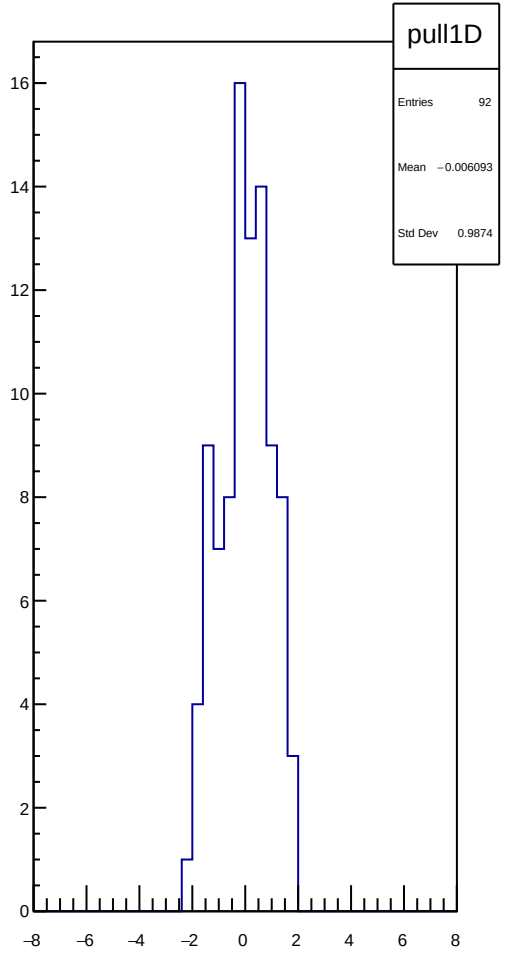
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ² / ndf 255.1 / 91
p0 780.5 ± 0.596
810
800
790
780
770
760


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 85.01 / 91
p0 −3868 ± 1429
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1110
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0005242
Std Dev 0.9612
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 1.103e+04 / 91
p0 1319 ± 1.011
1600
1500
1400
1300
1200
1100


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 89.7 / 91
p0 2486 ± 844.9
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −152.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 92
Mean −0.006093
Std Dev 0.9874
16
14
12
10
8
6
4
2
0
−8
−6
−4
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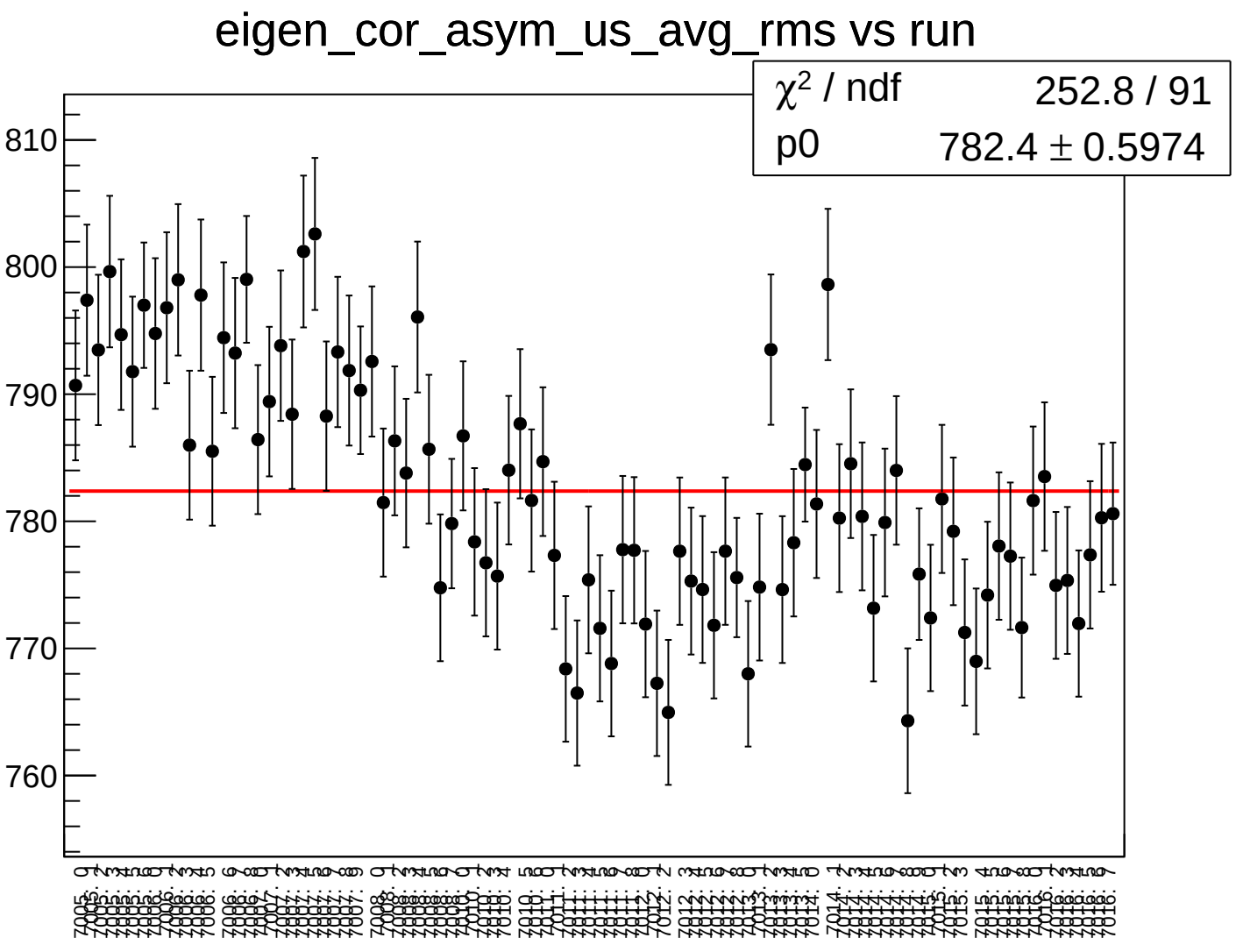
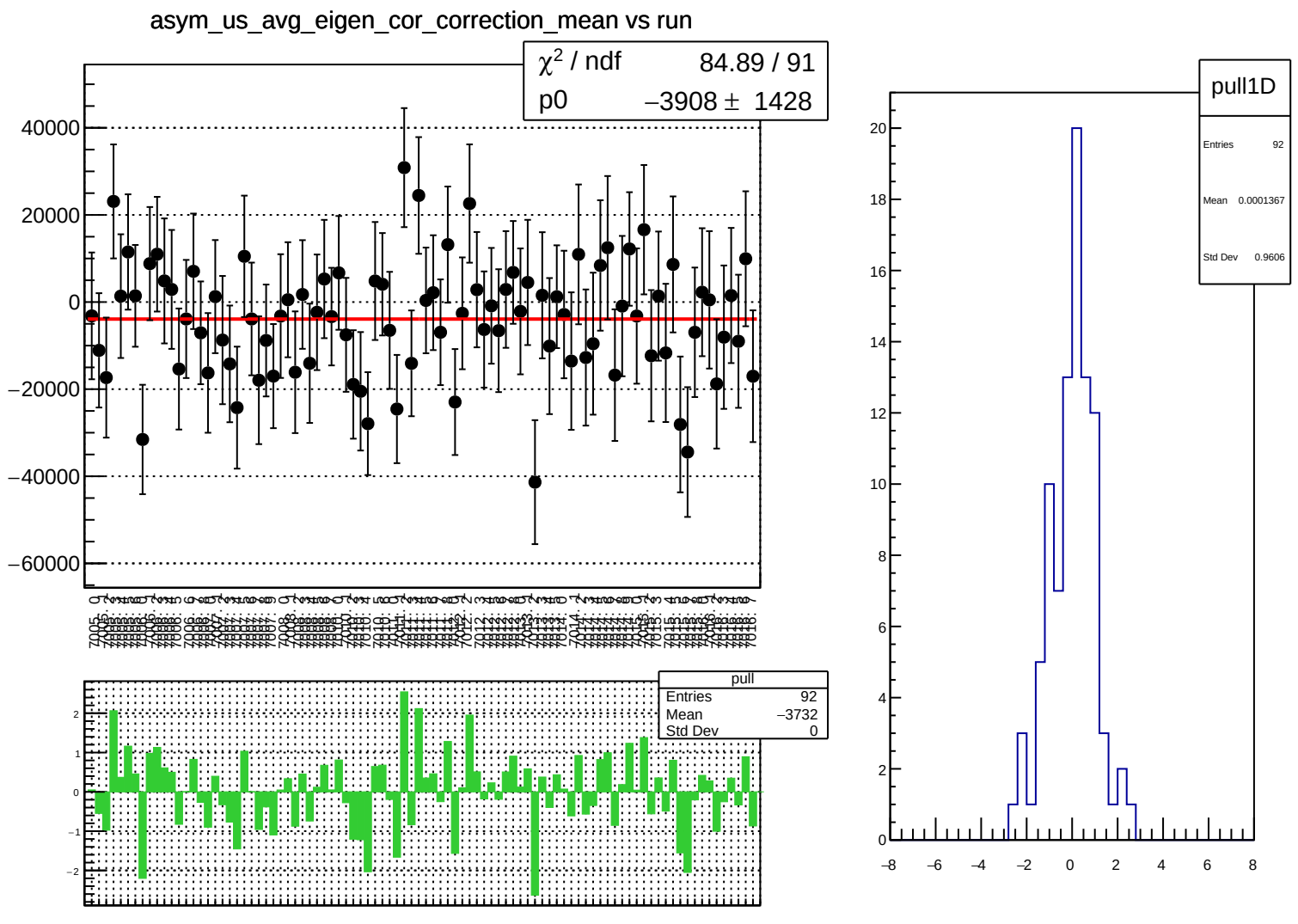
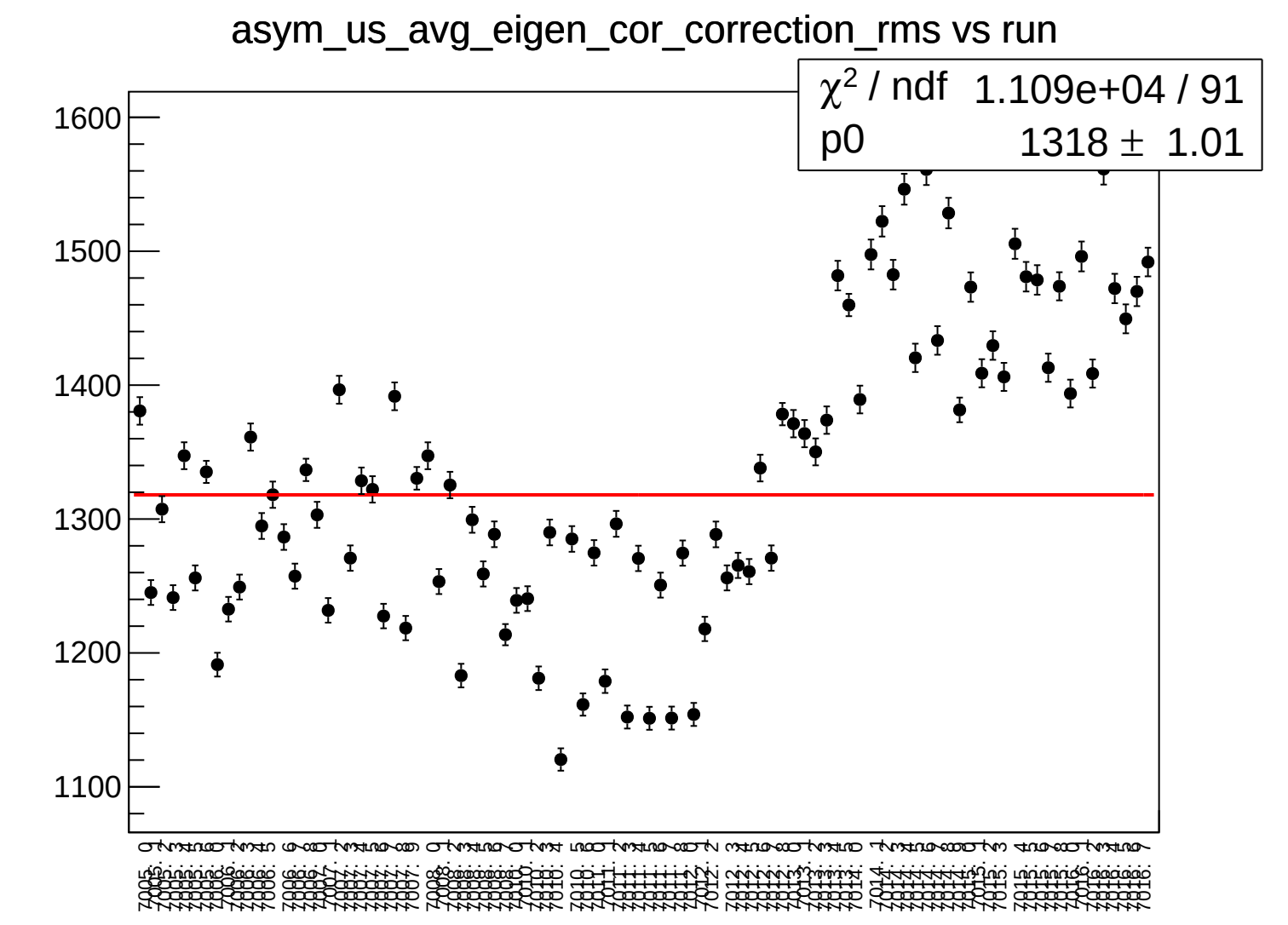
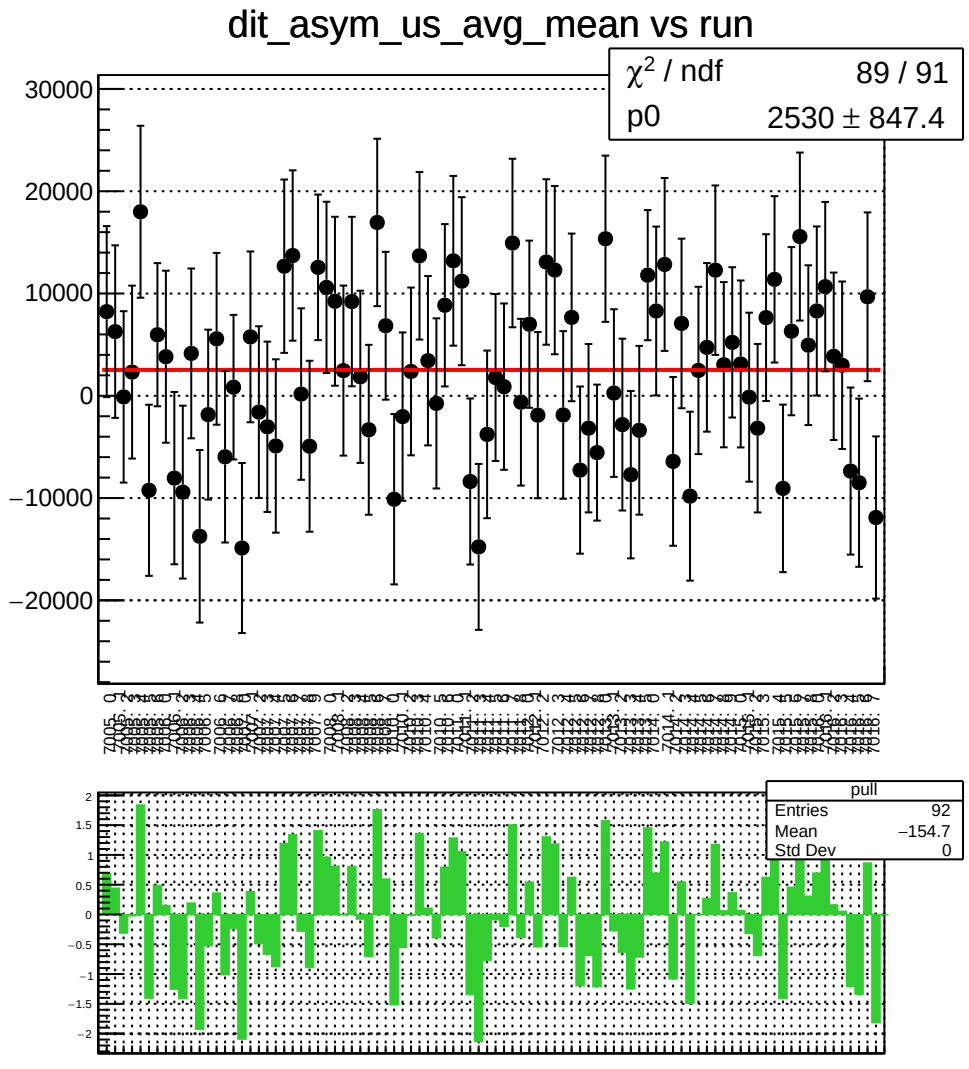
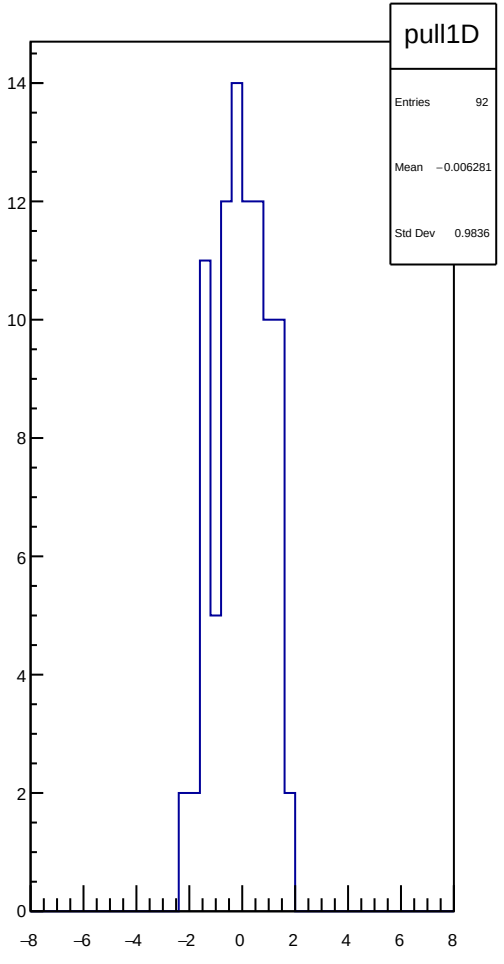
0
2
4
6
8

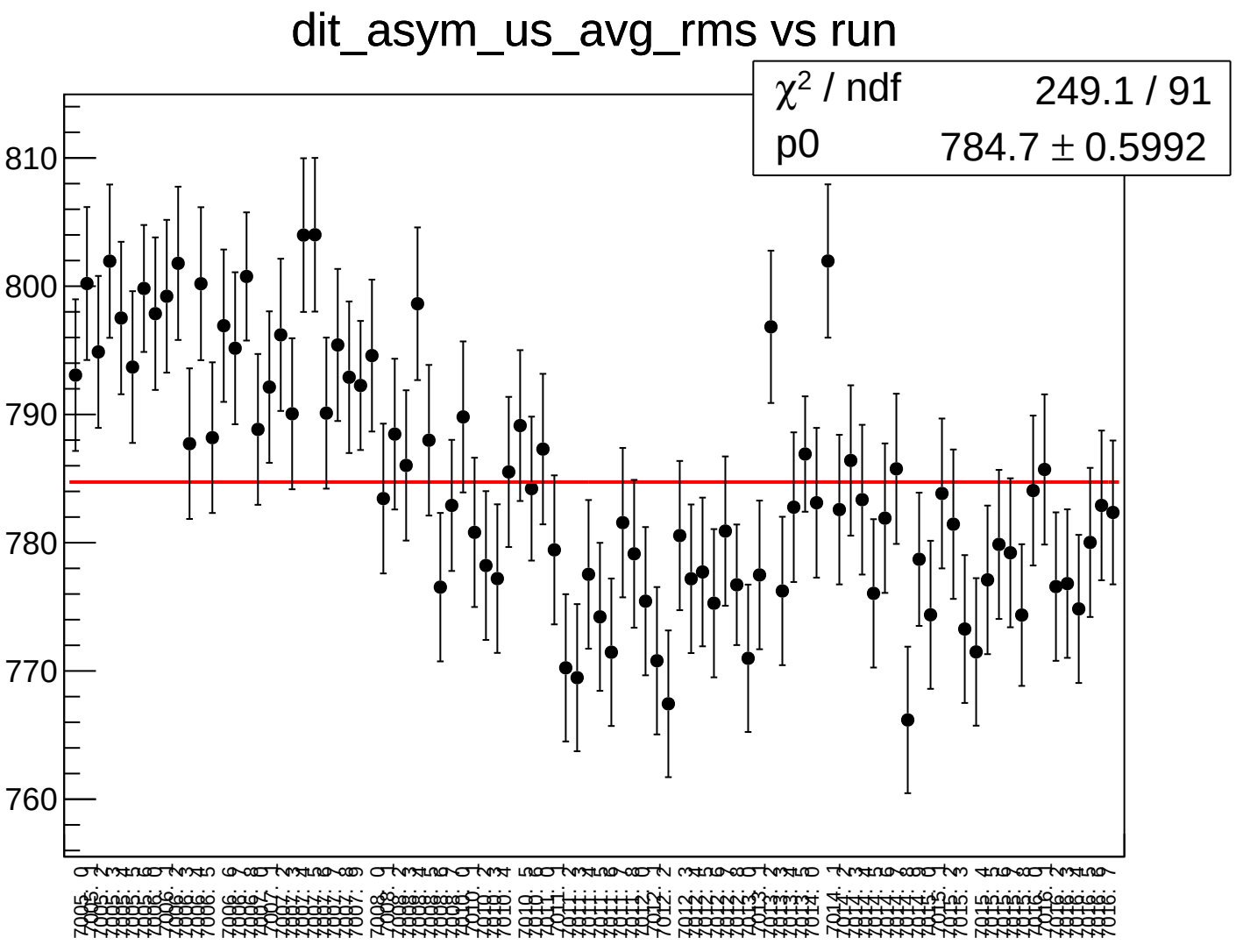

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 252.8 / 91
p0 782.4 ± 0.5974
810
800
790
780
770
760

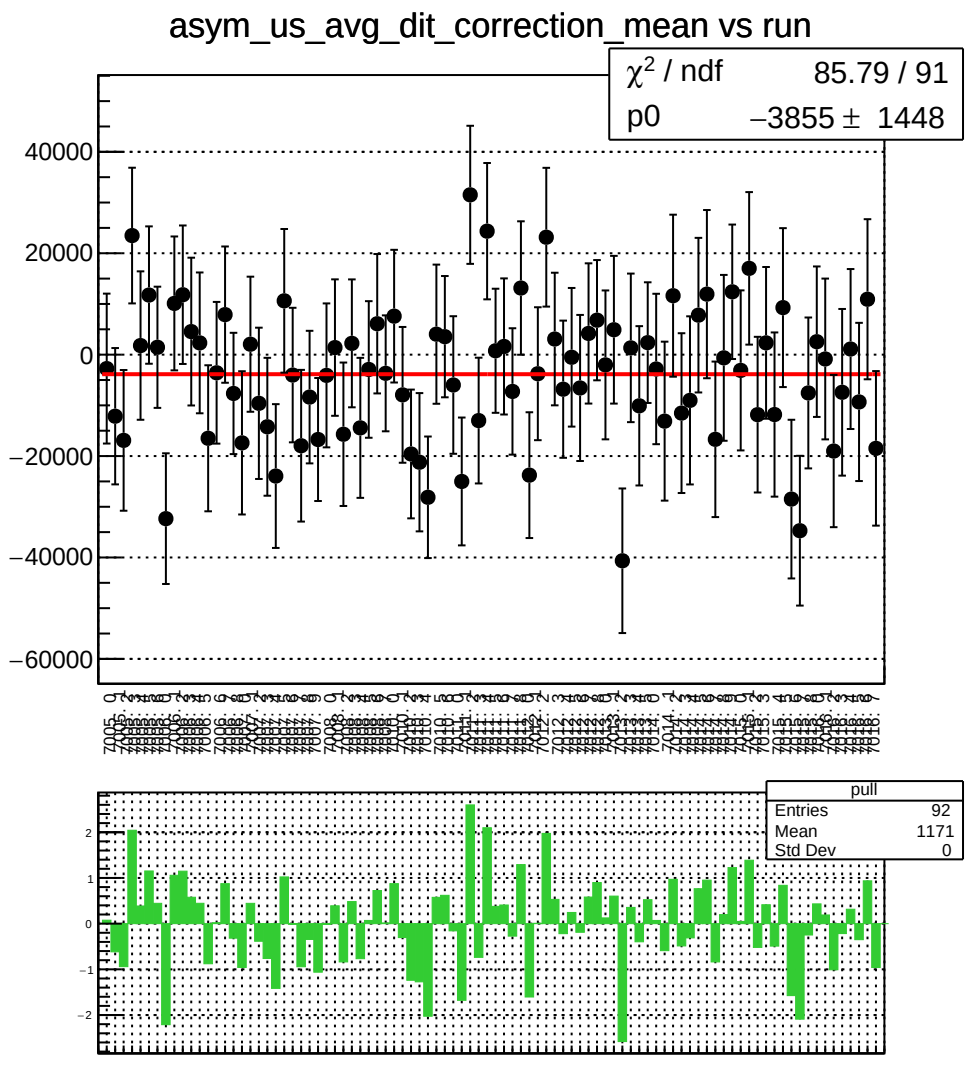

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.89 / 91
p0 −3908 ± 1428
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −3732
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0001367
Std Dev 0.9606
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

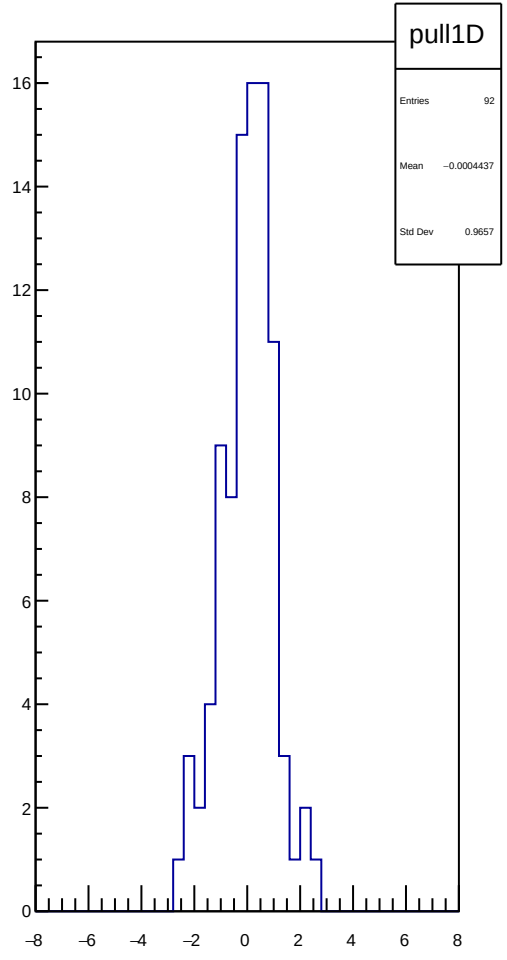

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.109e+04 / 91
p0 1318 ± 1.01
1600
1500
1400
1300
1200
1100

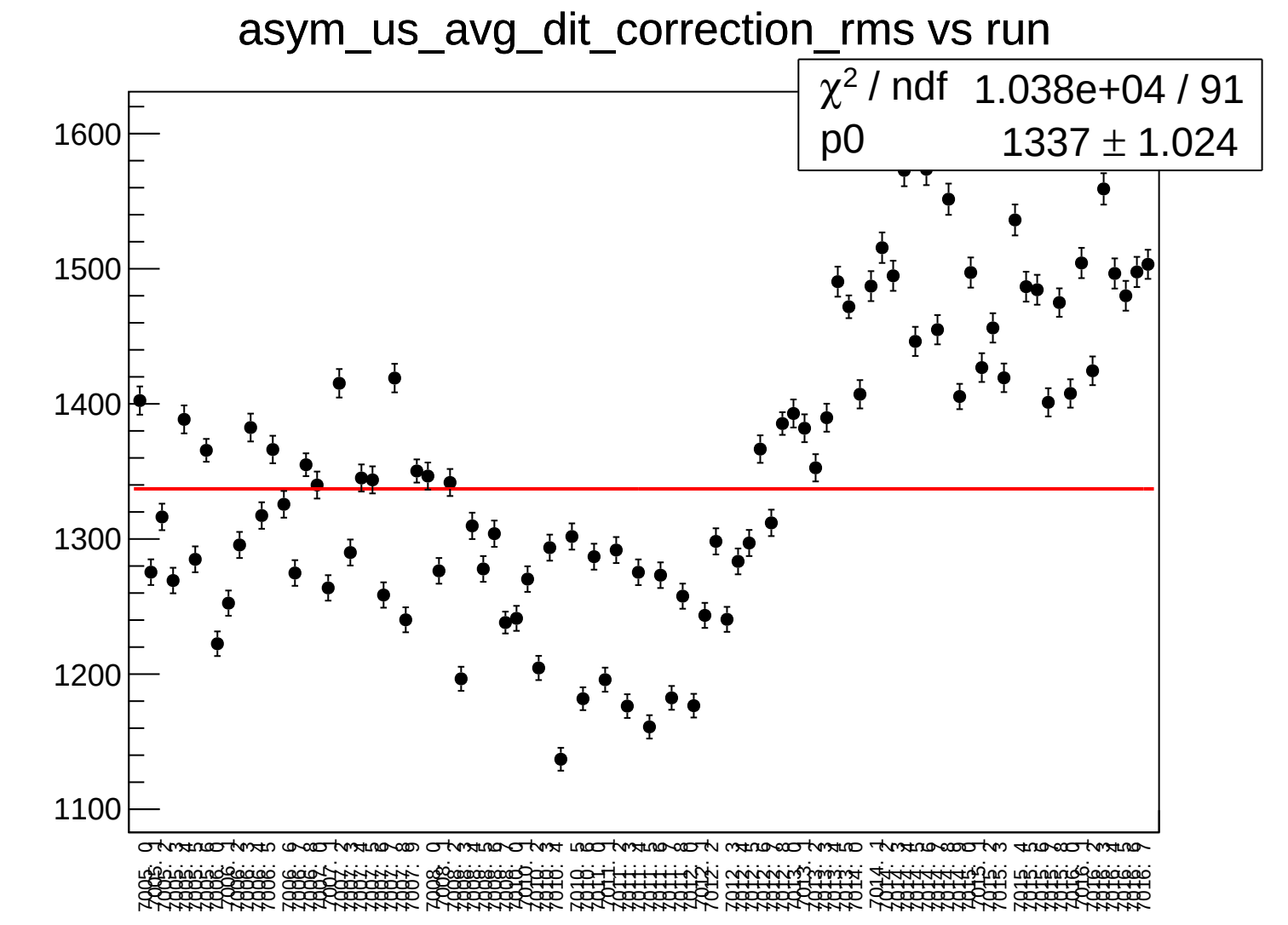

dit_asym_us_avg_mean vs run
χ² / ndf 89 / 91
p0 2530 ± 847.4
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −154.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

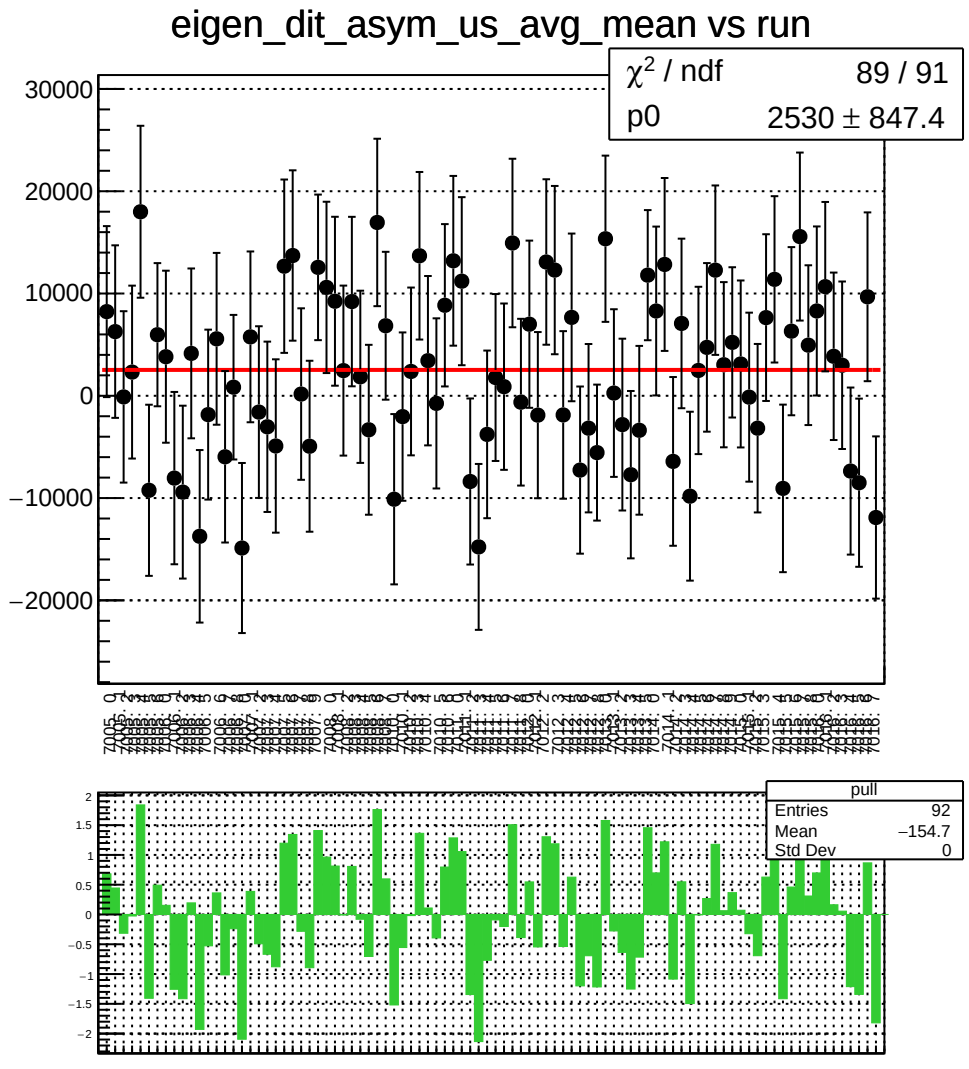

pull1D
Entries 92
Mean −0.006281
Std Dev 0.9836
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

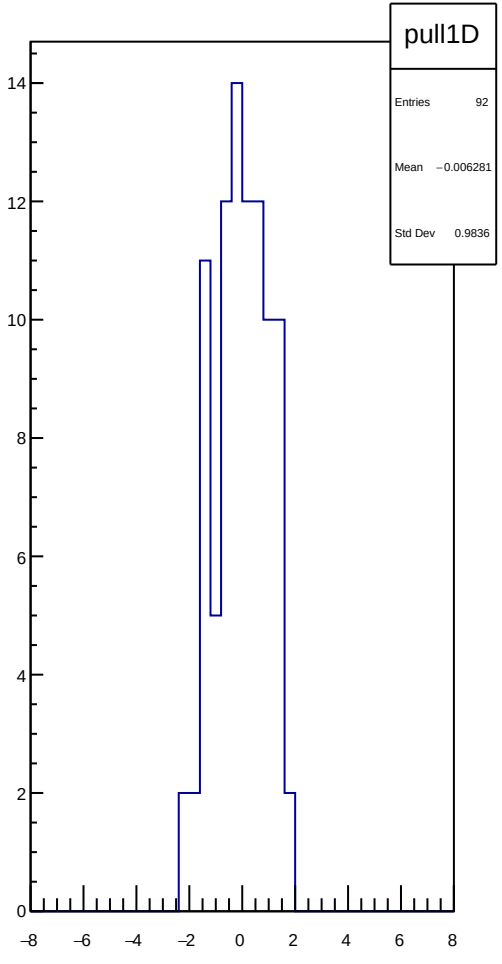

dit_asym_us_avg_rms vs run
χ² / ndf 249.1 / 91
p0 784.7 ± 0.5992
810
800
790
780
770
760


asym_us_avg_dit_correction_mean vs run
χ² / ndf 85.79 / 91
p0 −3855 ± 1448
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1171
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 92
Mean −0.0004437
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_dit_correction_rms vs run
χ² / ndf 1.038e+04 / 91
p0 1337 ± 1.024
1600
1500
1400
1300
1200
1100


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 89 / 91
p0 2530 ± 847.4
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −154.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 92
Mean −0.006281
Std Dev 0.9836
14
12
10
8
6
4
2
0
−8
−6
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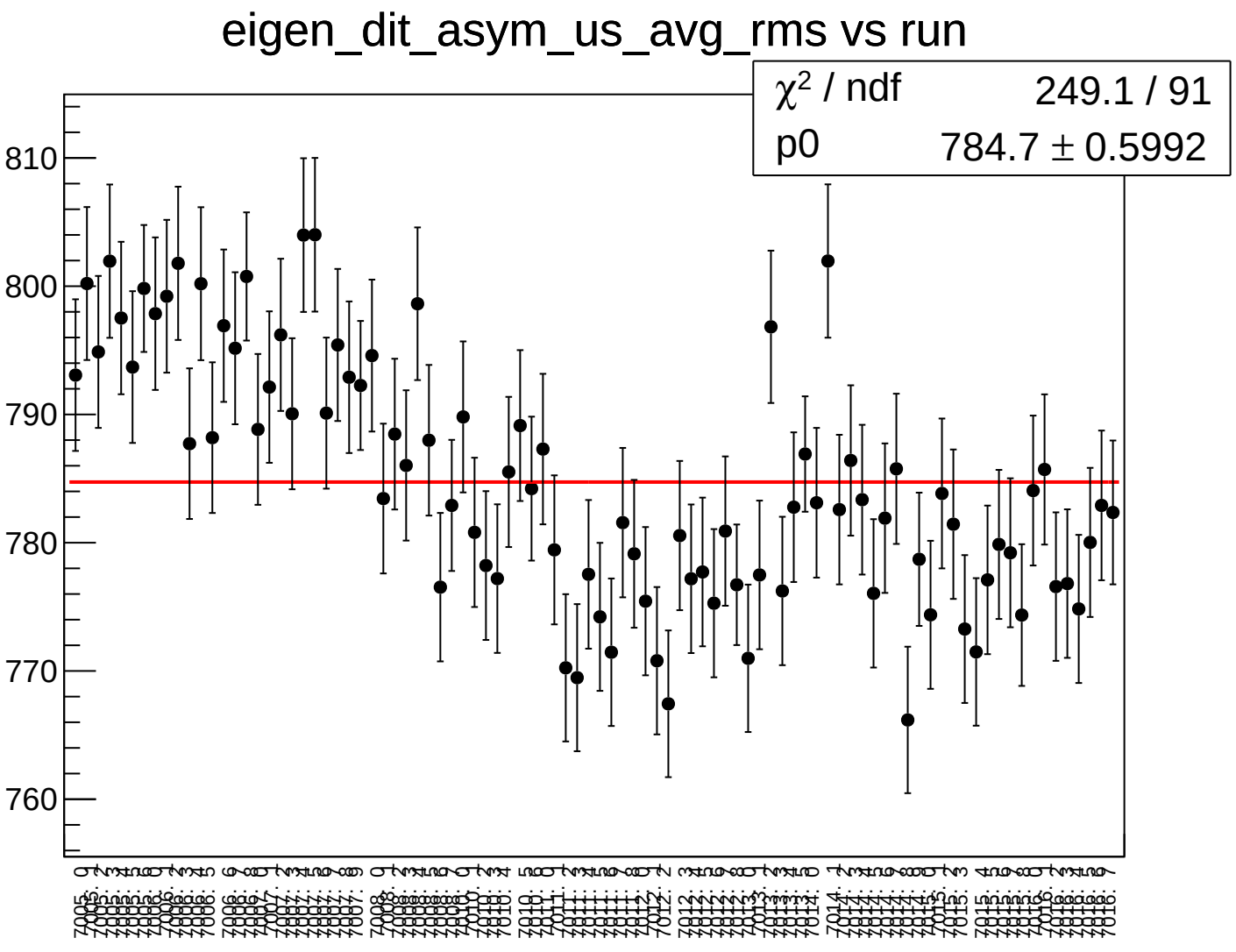
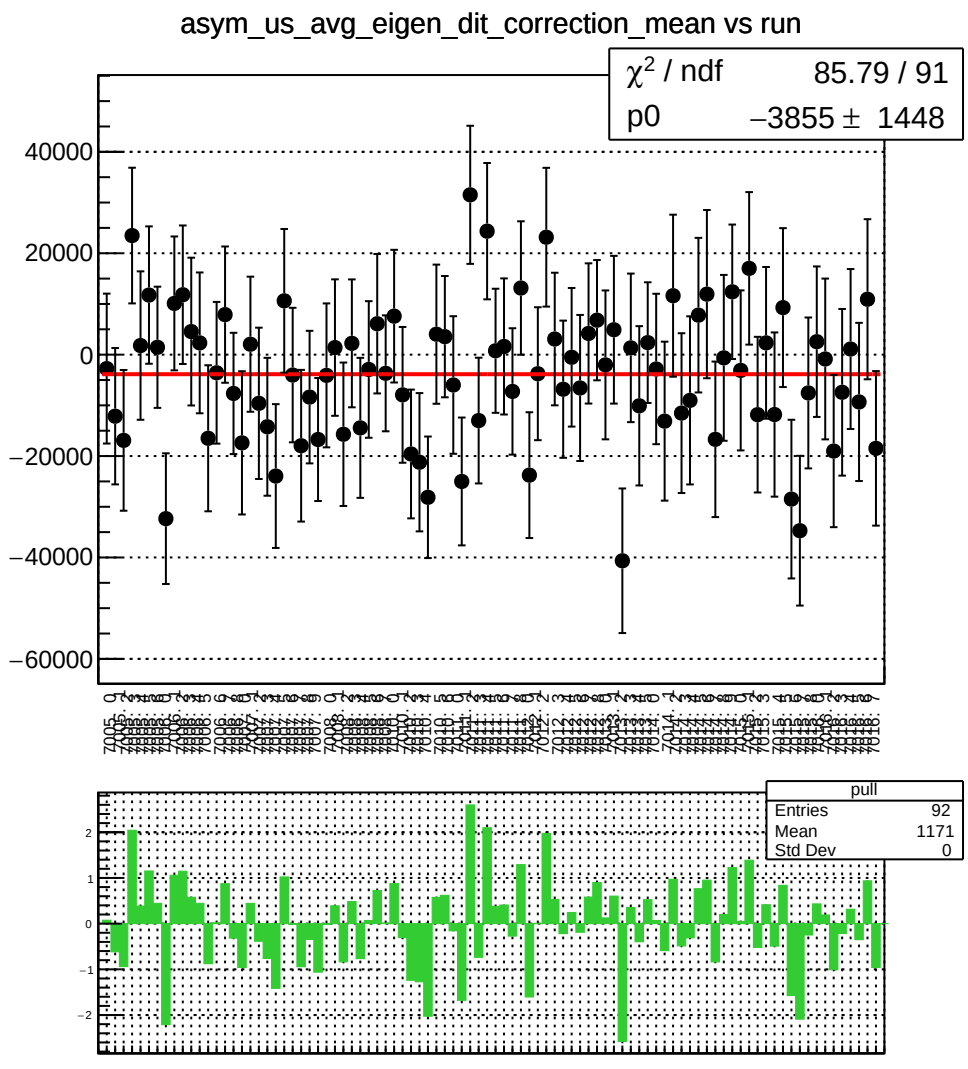
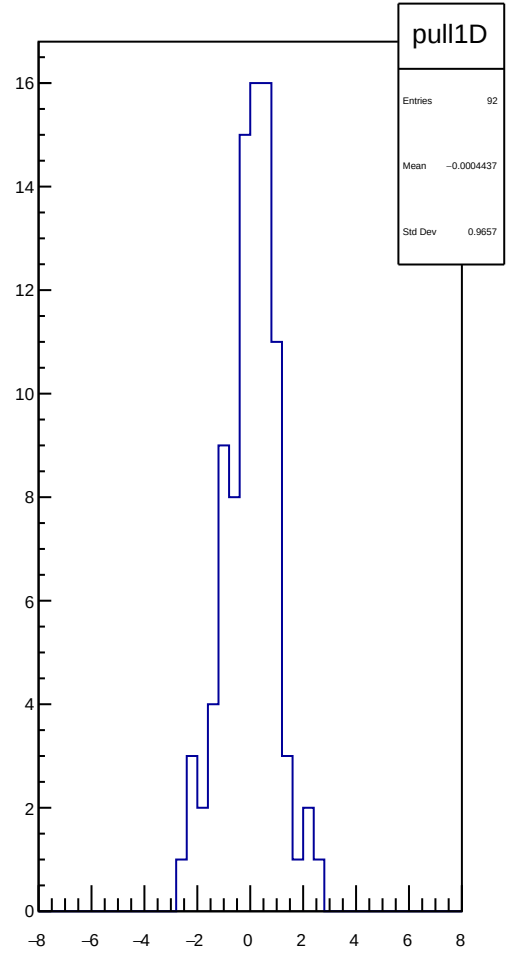
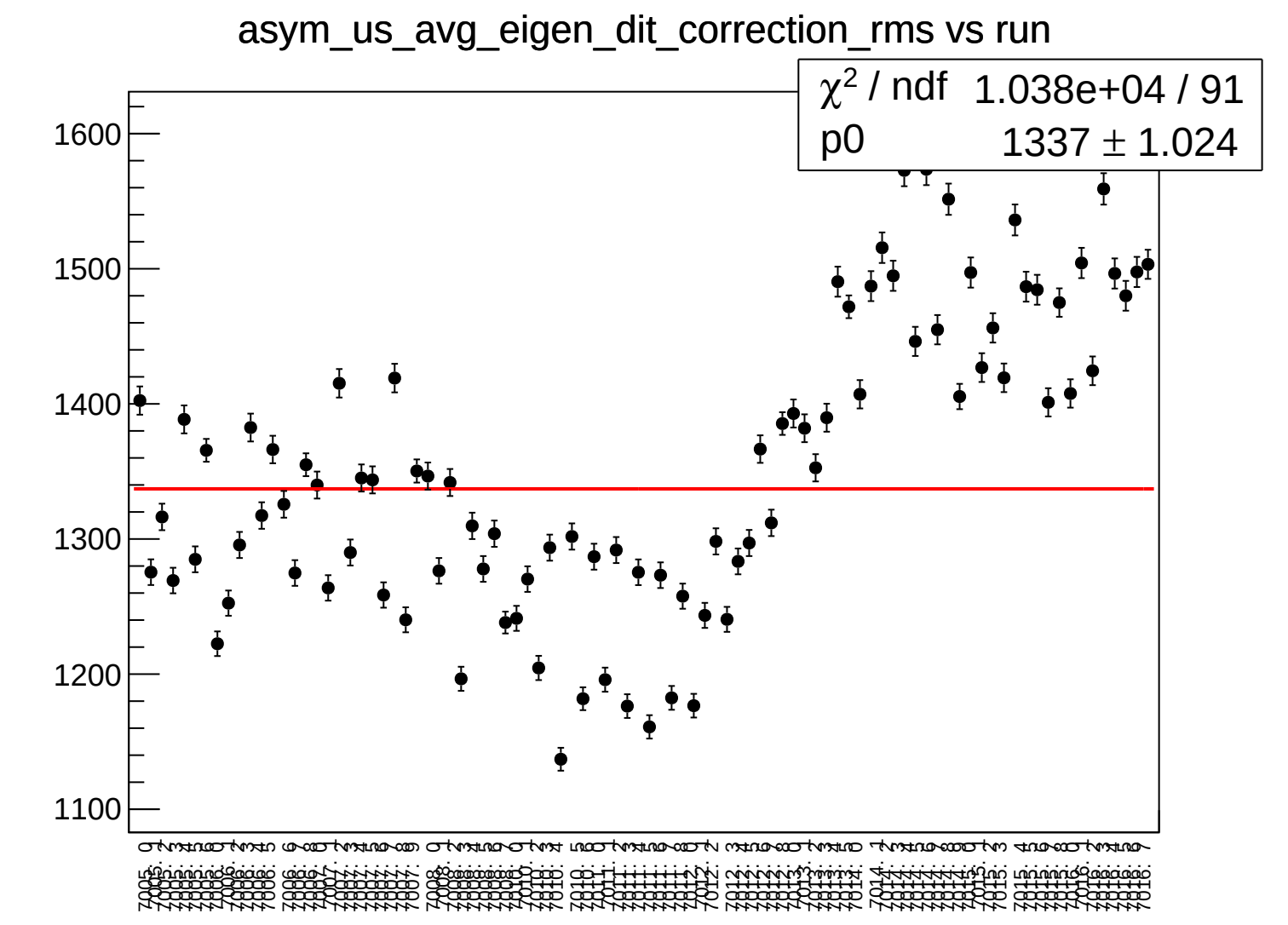
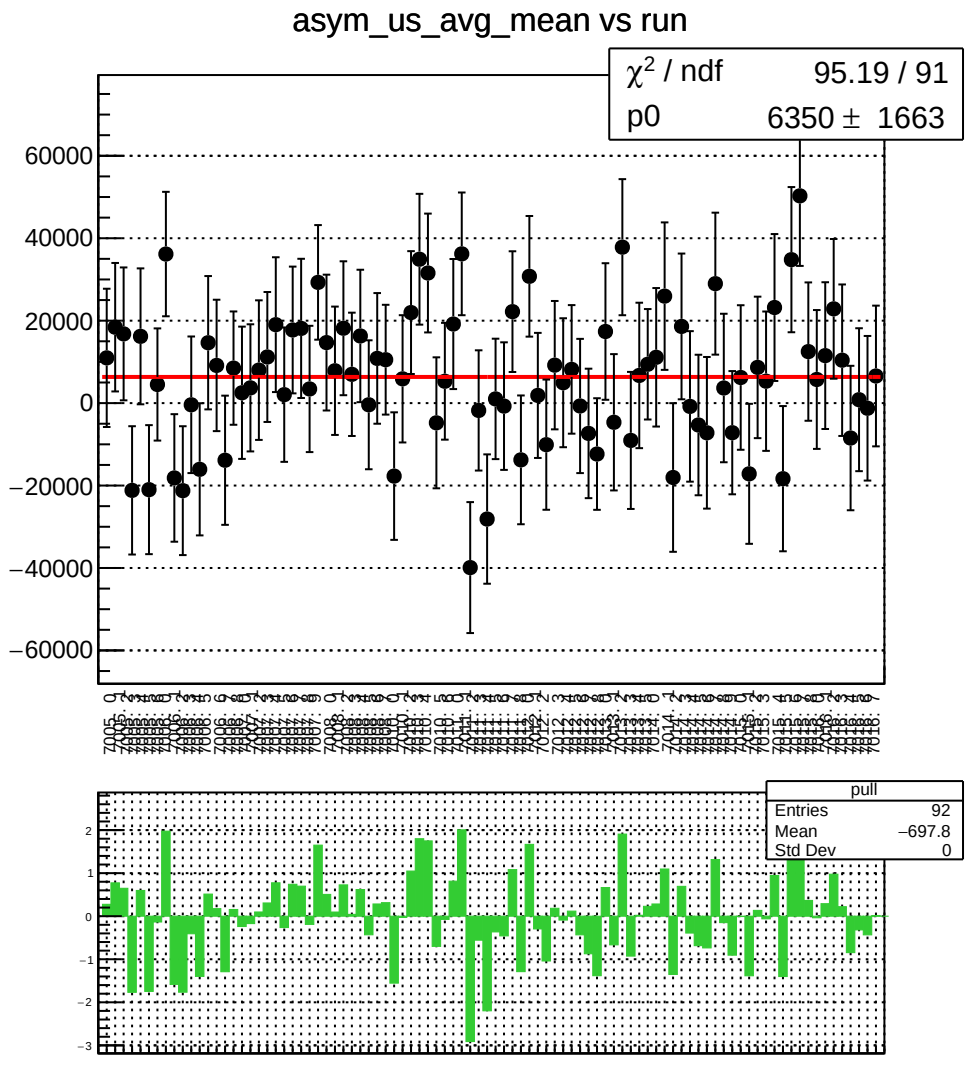
2
4
6
8

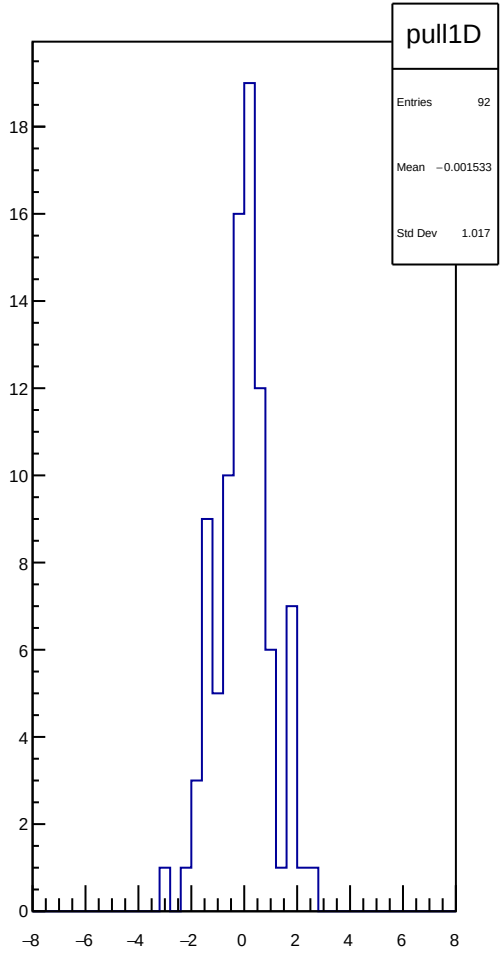

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 249.1 / 91
p0 784.7 ± 0.5992
810
800
790
780
770
760

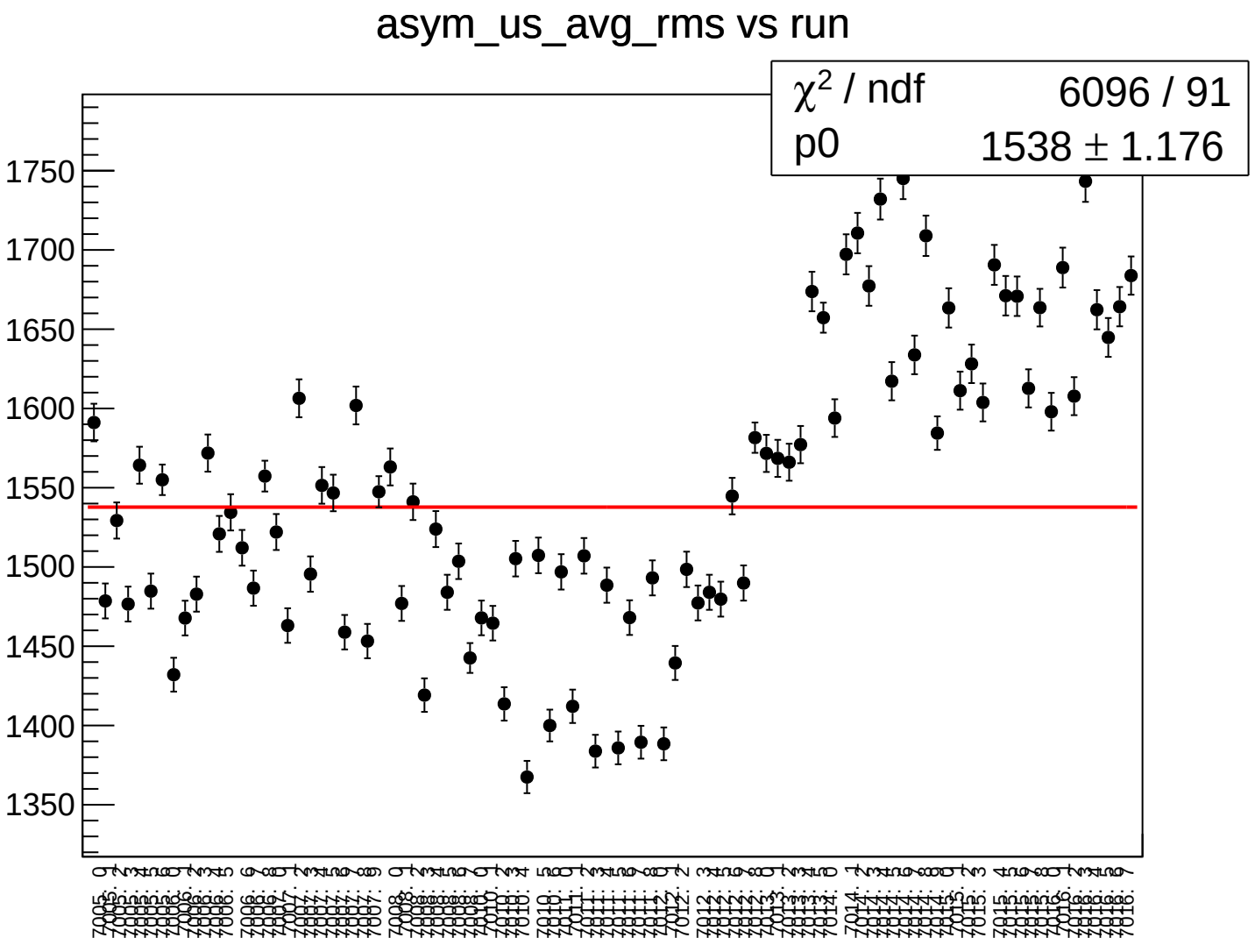

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.79 / 91
p0 −3855 ± 1448
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1171
Std Dev 0
2
1
0
−1
−2

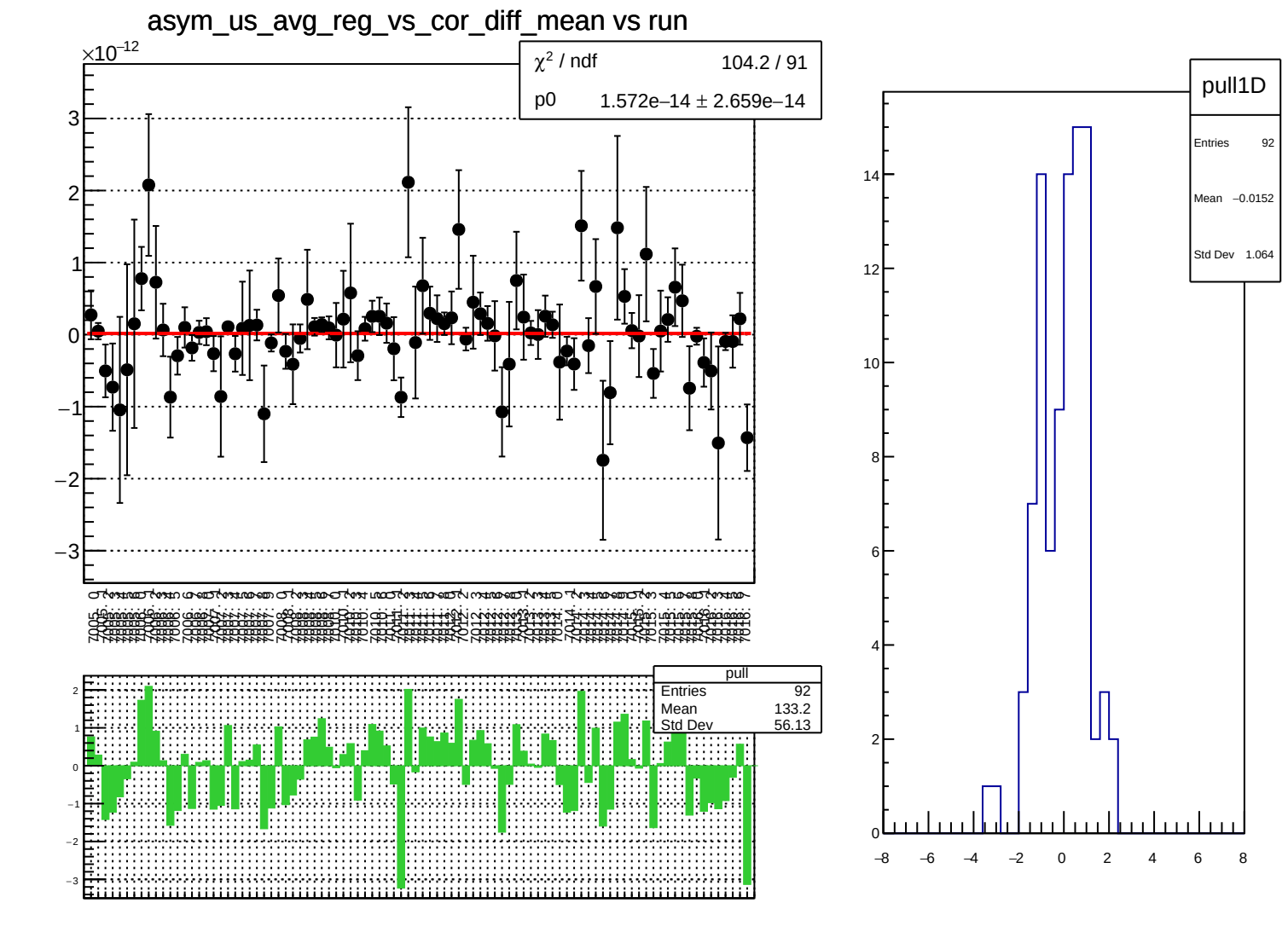

pull1D
Entries 92
Mean −0.0004437
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

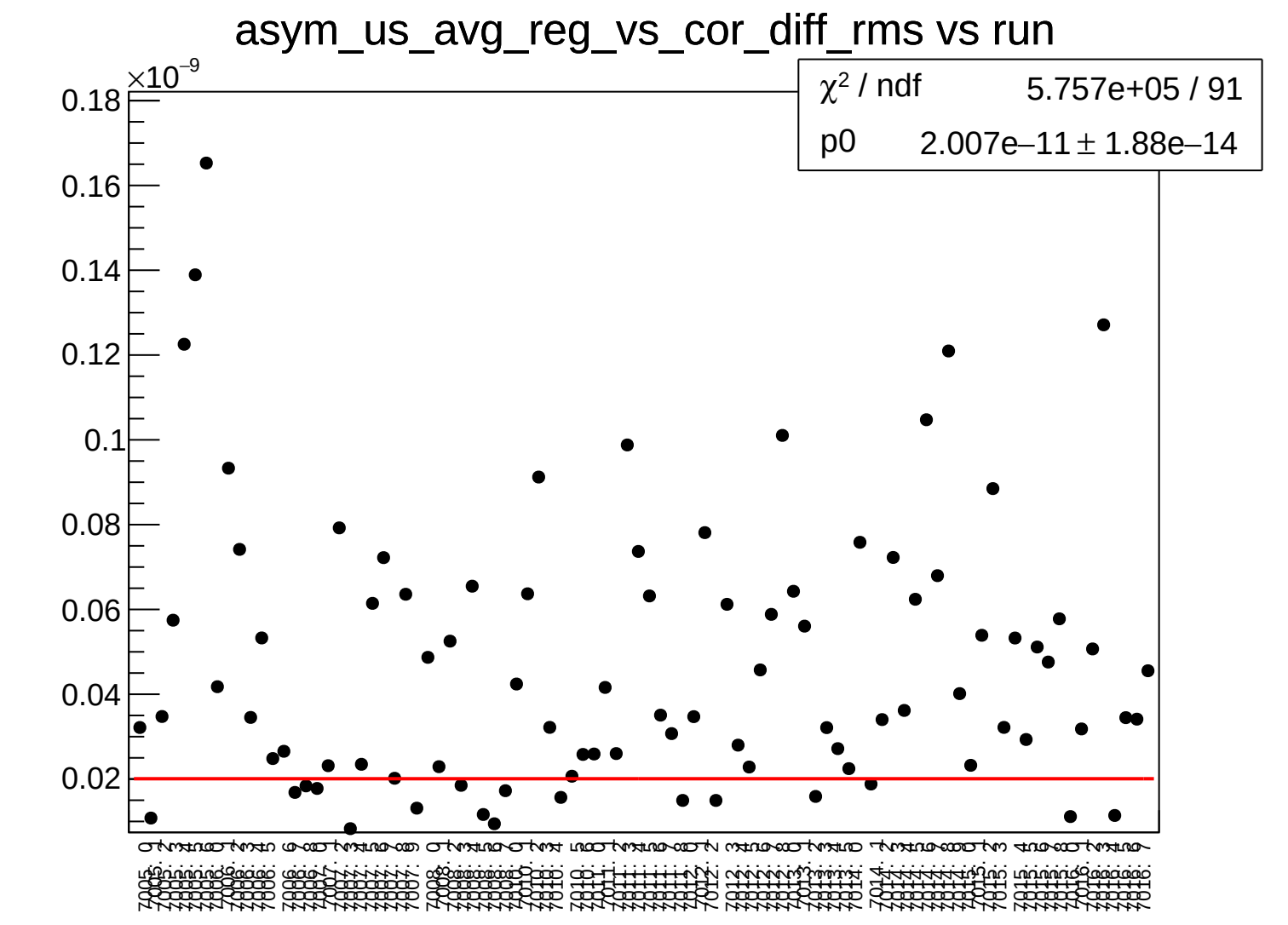

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.038e+04 / 91
p0 1337 ± 1.024
1600
1500
1400
1300
1200
1100

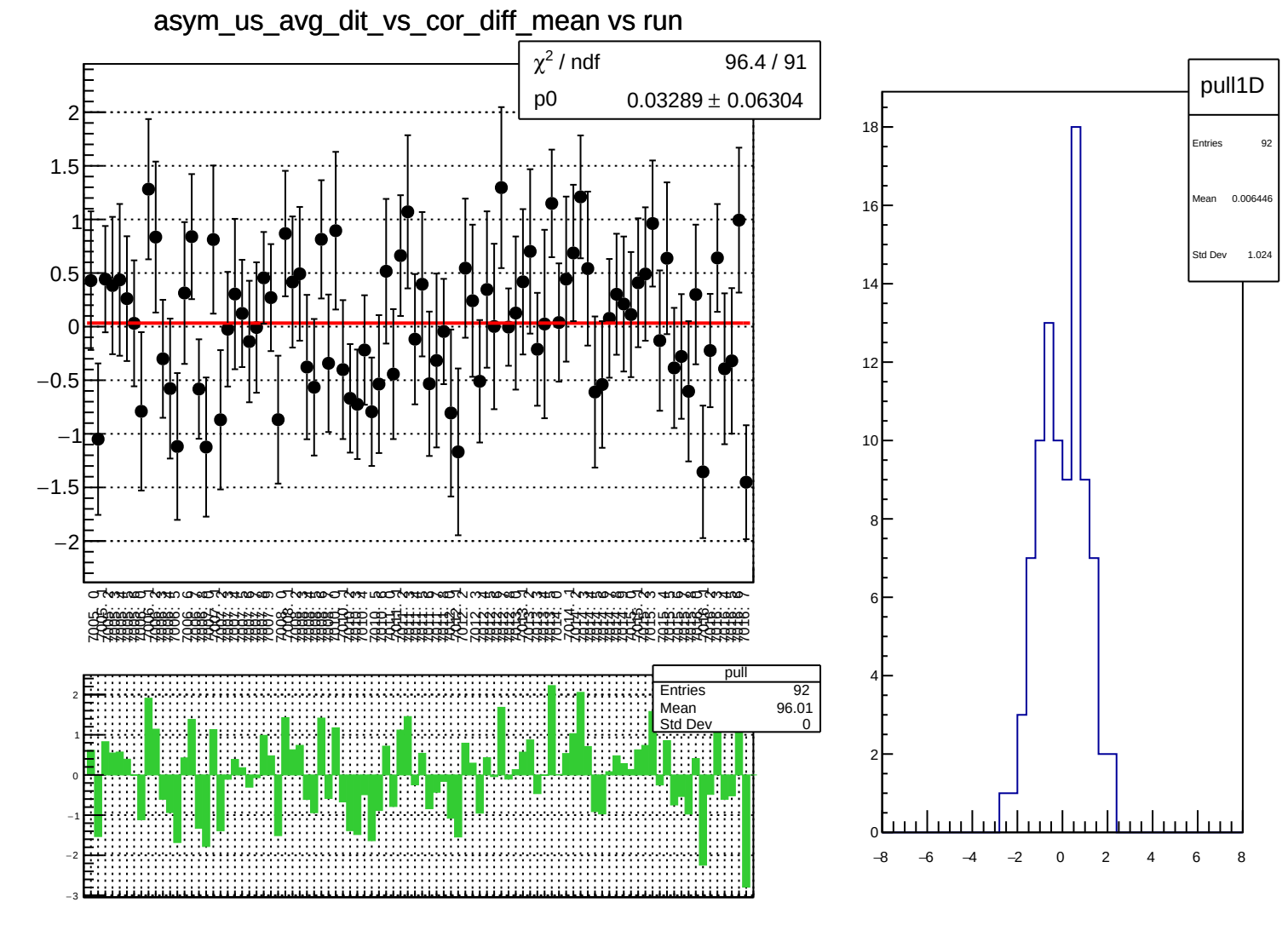

asym_us_avg_mean vs run
χ² / ndf 95.19 / 91
p0 6350 ± 1663
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −697.8
Std Dev 0
2
1
0
−1
−2
−3

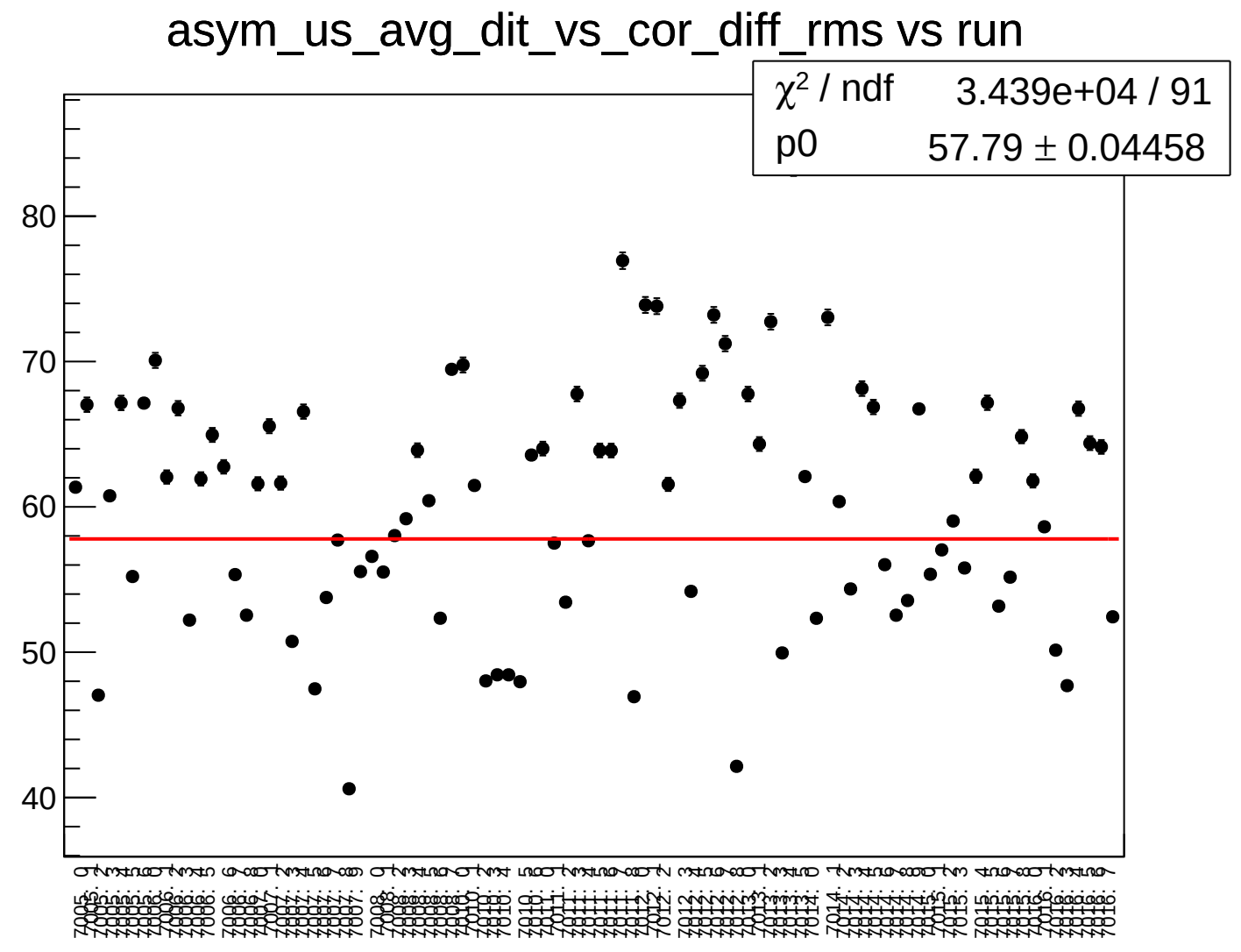

pull1D
Entries 92
Mean −0.001533
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

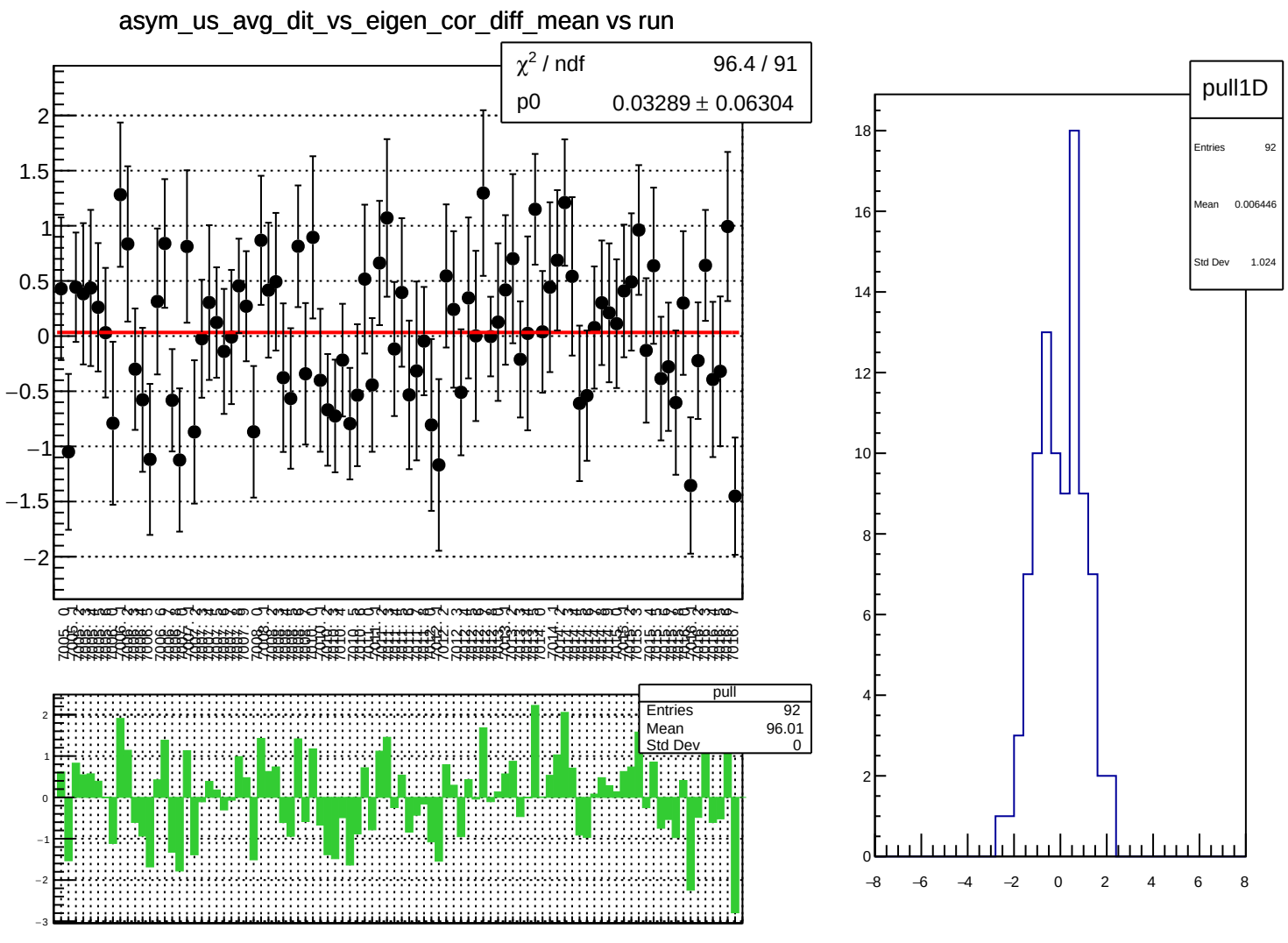

asym_us_avg_rms vs run
χ² / ndf 6096 / 91
p0 1538 ± 1.176
1750
1700
1650
1600
1550
1500
1450
1400
1350

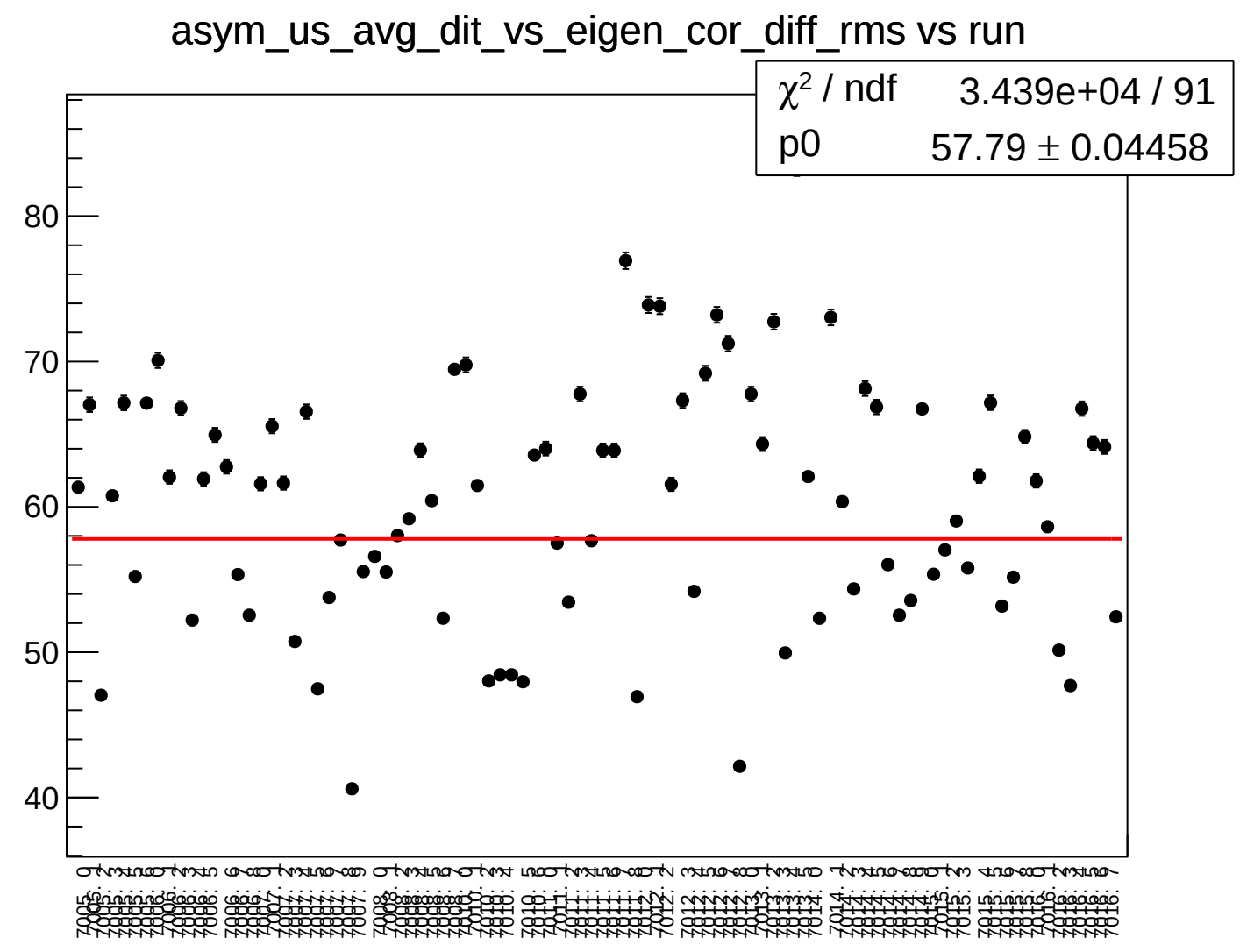

asym_us_avg_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 104.2 / 91
p0 1.572e−14 ± 2.659e−14
pull
Entries 92
Mean 133.2
Std Dev 56.13
pull1D
Entries 92
Mean −0.0152
Std Dev 1.064

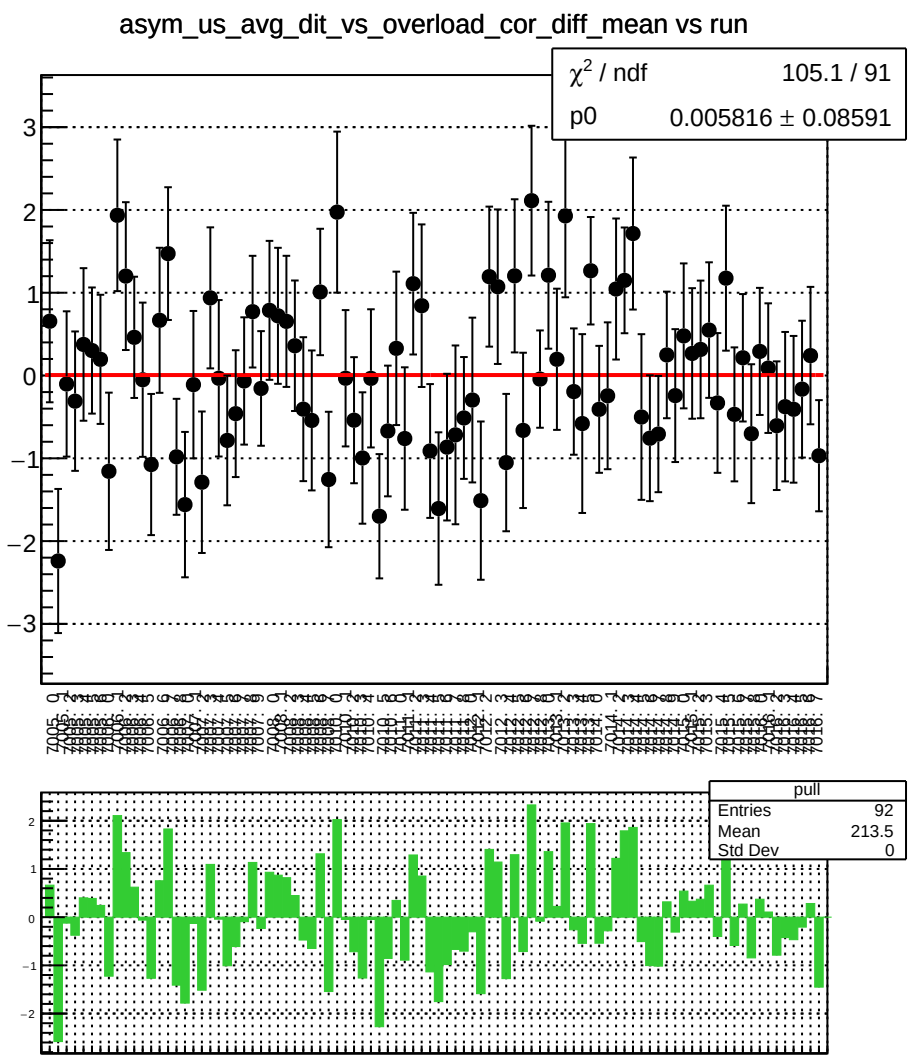

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.757e+05 / 91
p0 2.007e−11 ± 1.88e−14

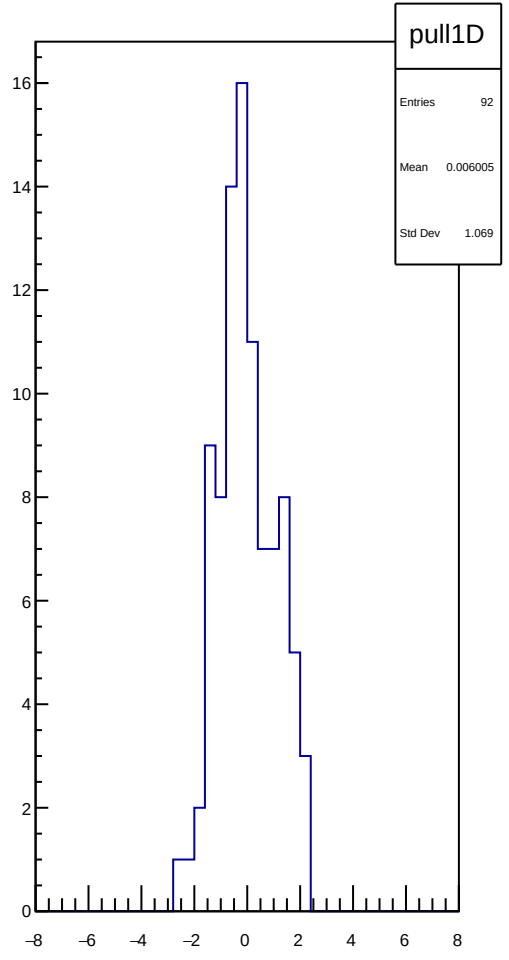

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.4 / 91
p0 0.03289 ± 0.06304
pull
Entries 92
Mean 96.01
Std Dev 0
pull1D
Entries 92
Mean 0.006446
Std Dev 1.024

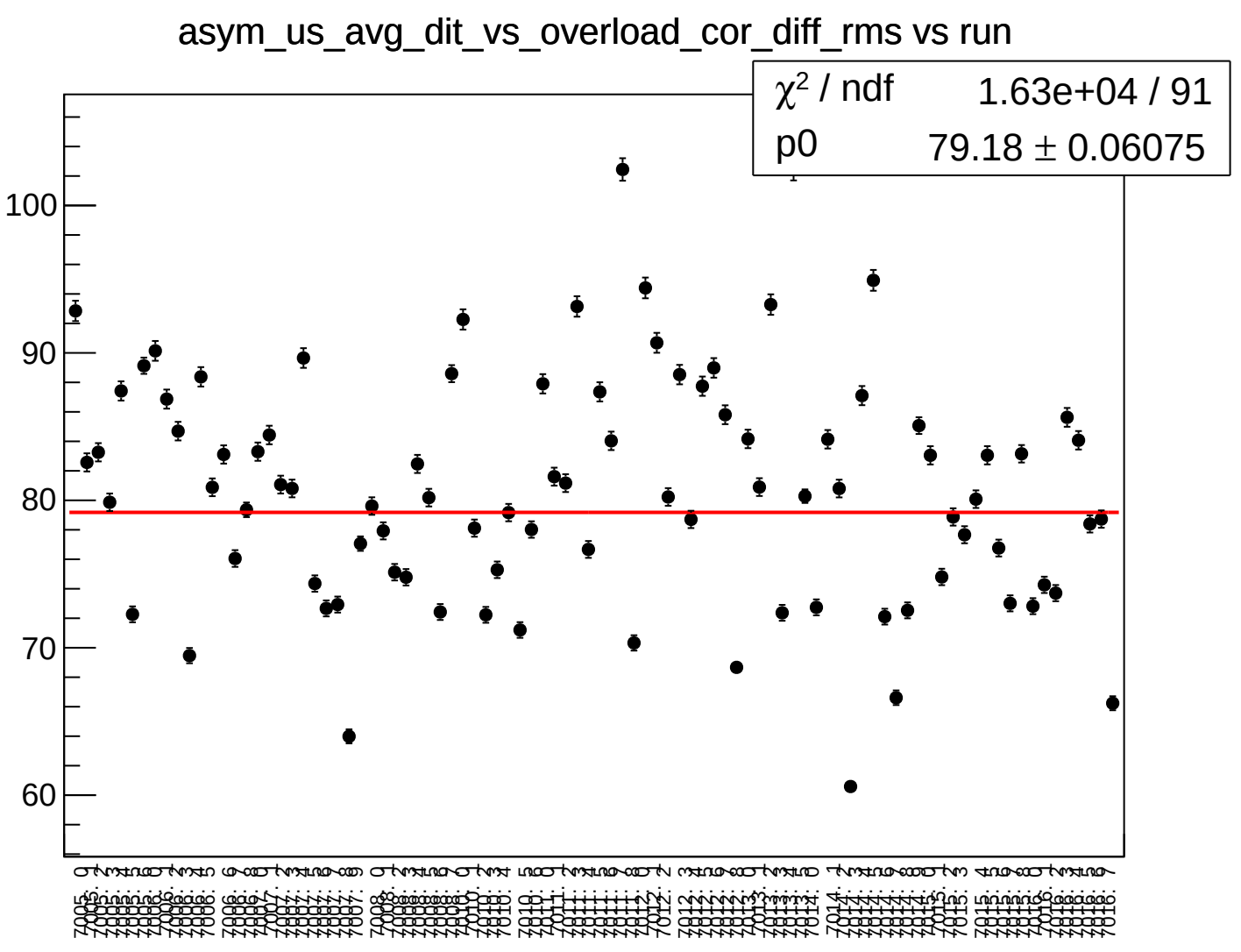

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.439e+04 / 91
p0 57.79 ± 0.04458
80
70
60
50
40

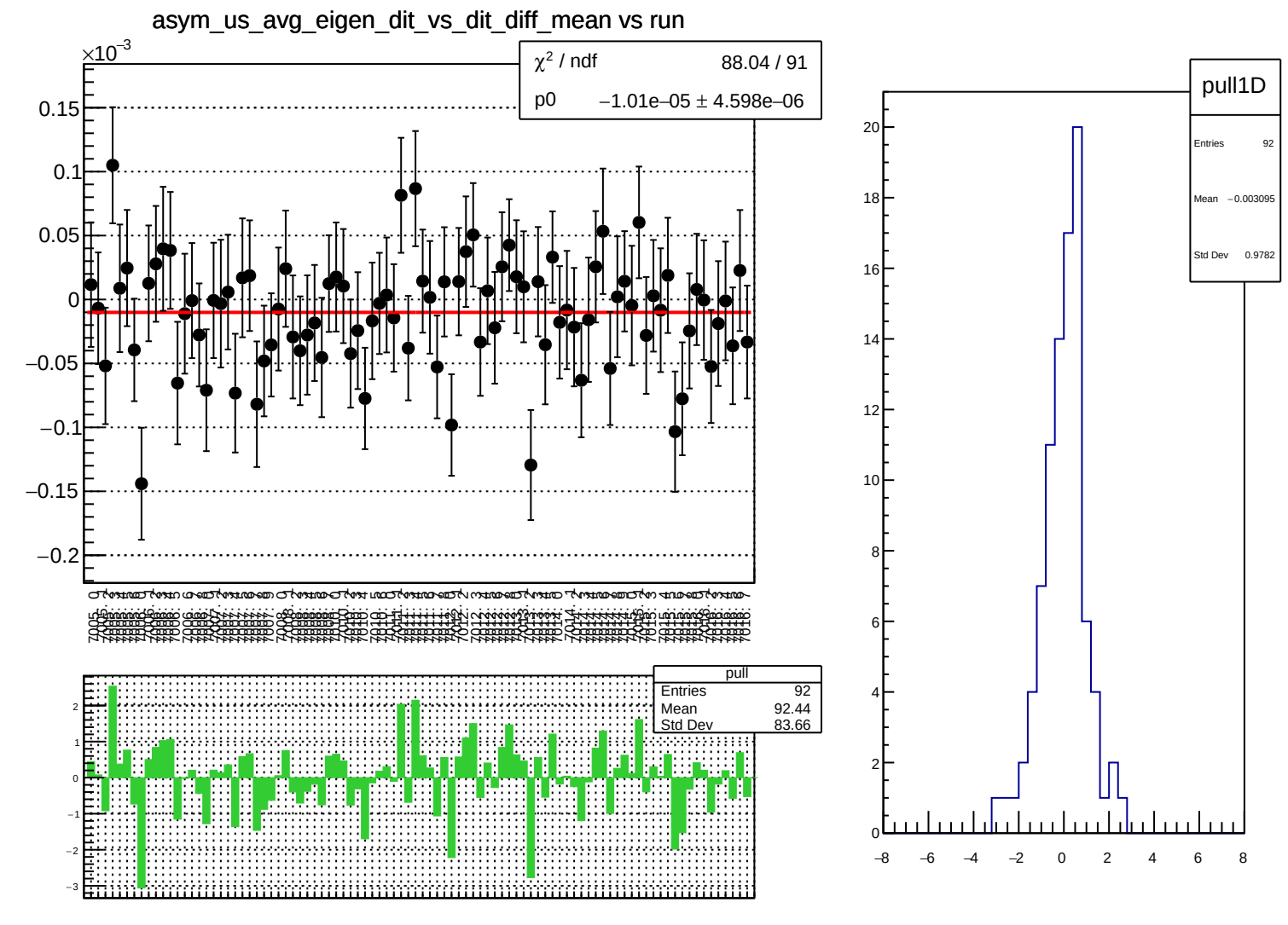

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.4 / 91
p0 0.03289 ± 0.06304
pull
Entries 92
Mean 96.01
Std Dev 0
pull1D
Entries 92
Mean 0.006446
Std Dev 1.024

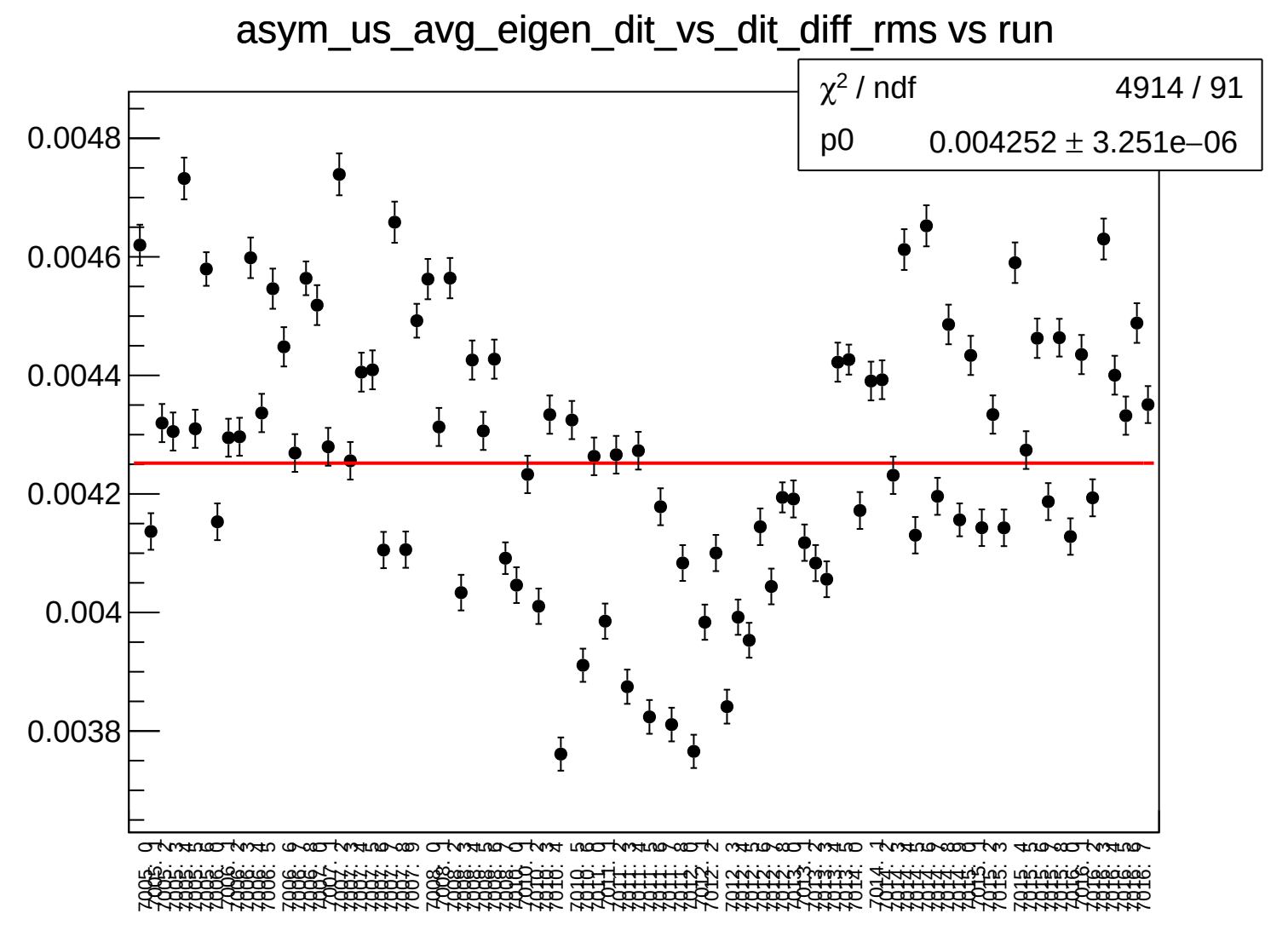

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.439e+04 / 91
p0 57.79 ± 0.04458
80
70
60
50
40

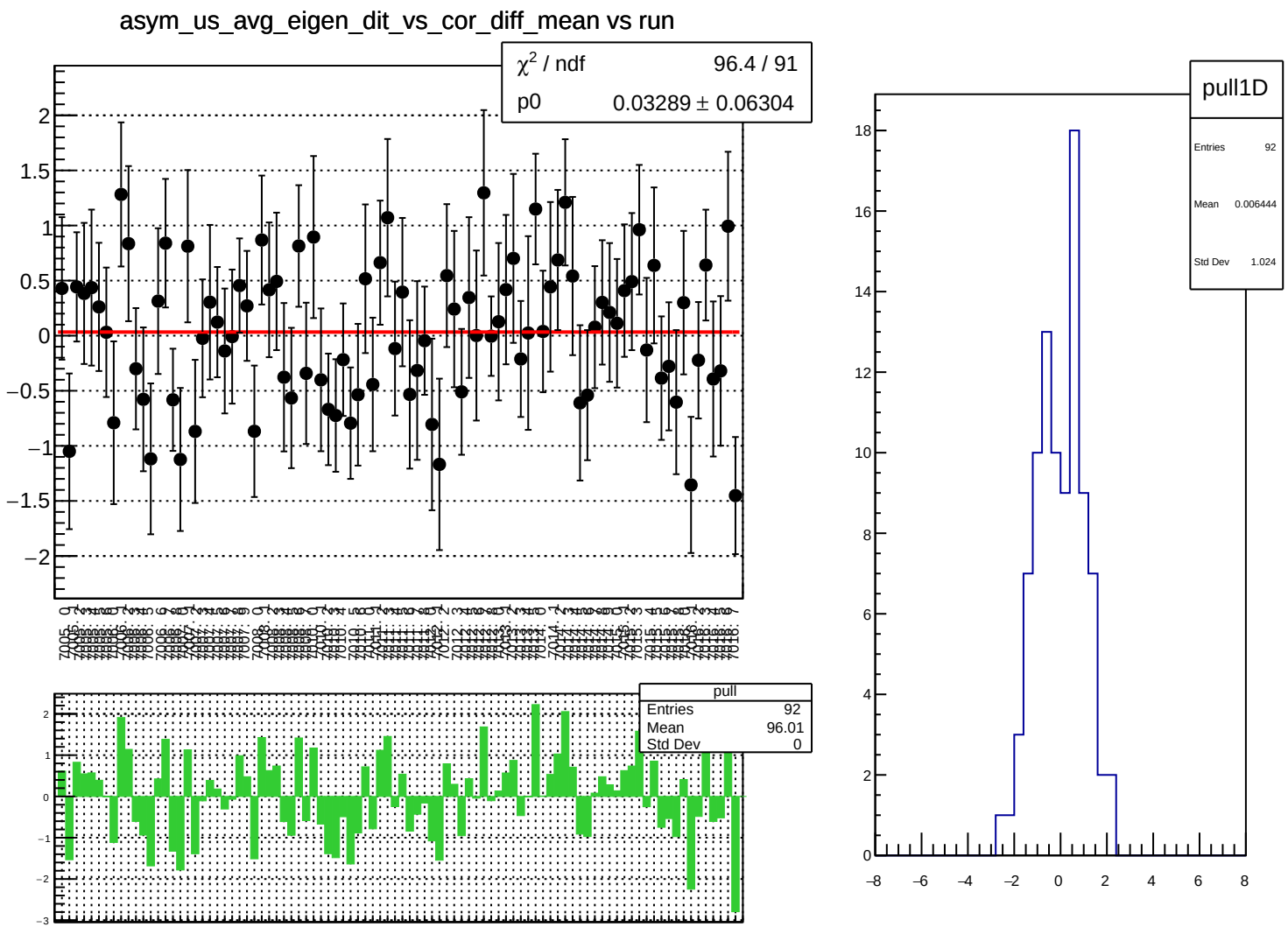

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 105.1 / 91
p0 0.005816 ± 0.08591
pull
Entries 92
Mean 213.5
Std Dev 0

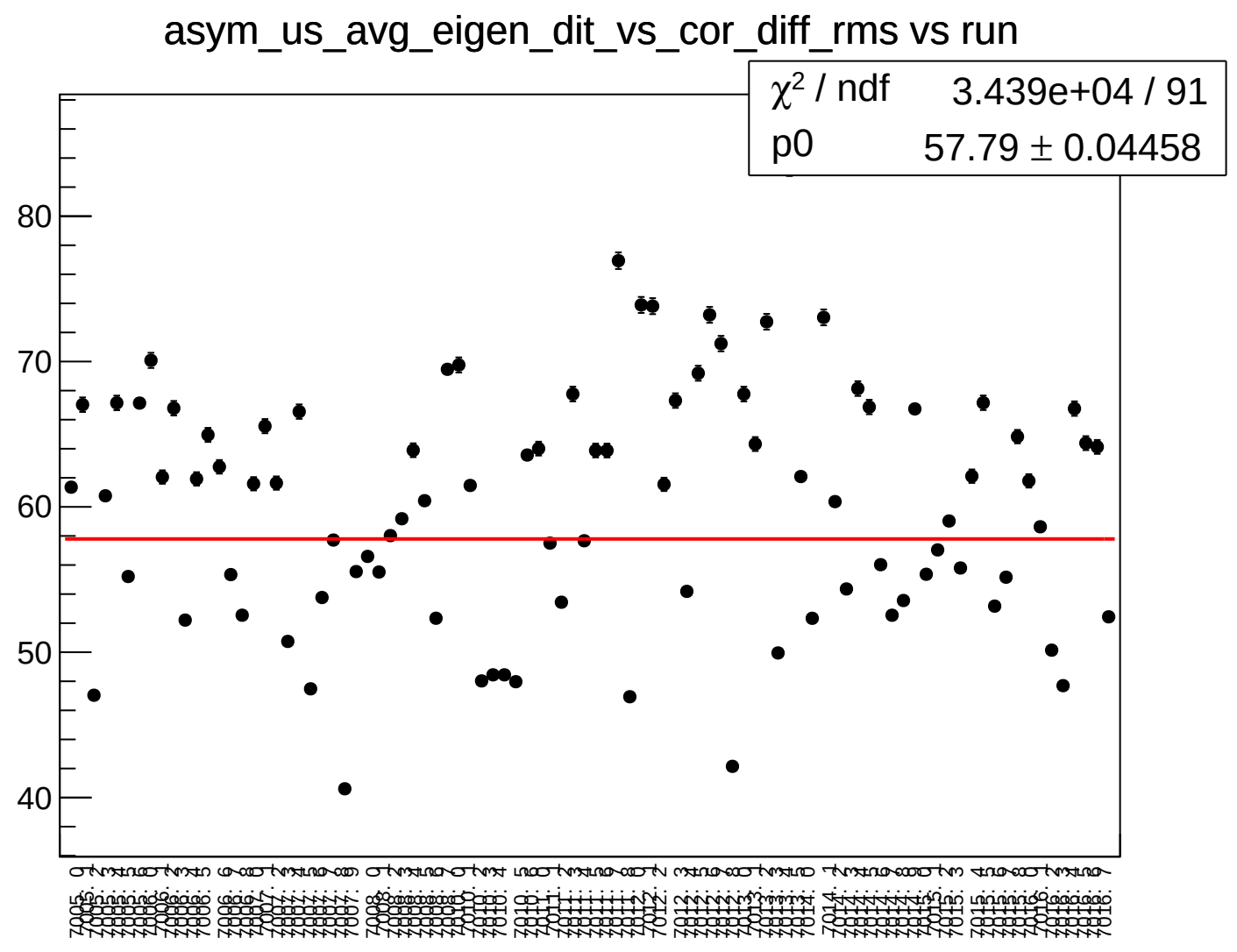

pull1D
Entries 92
Mean 0.006005
Std Dev 1.069

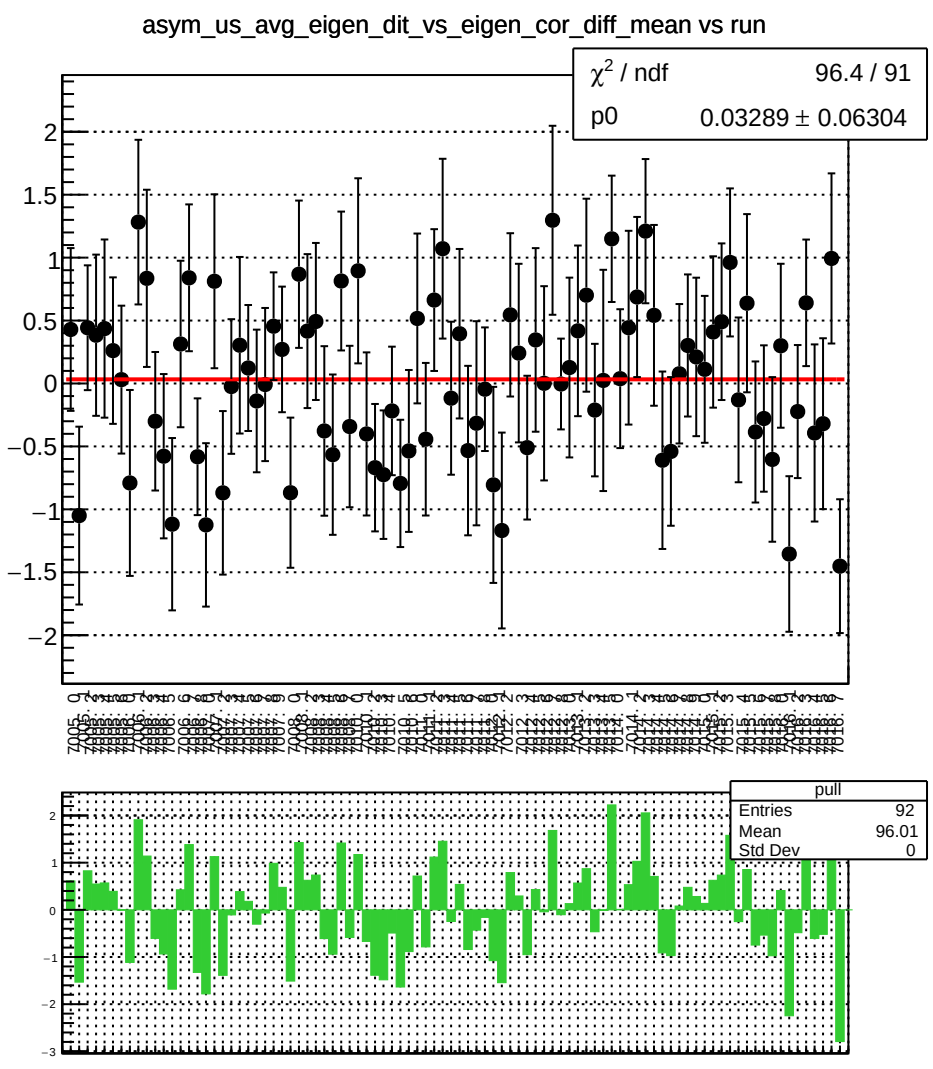

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.63e+04 / 91
p0 79.18 ± 0.06075
100
90
80
70
60

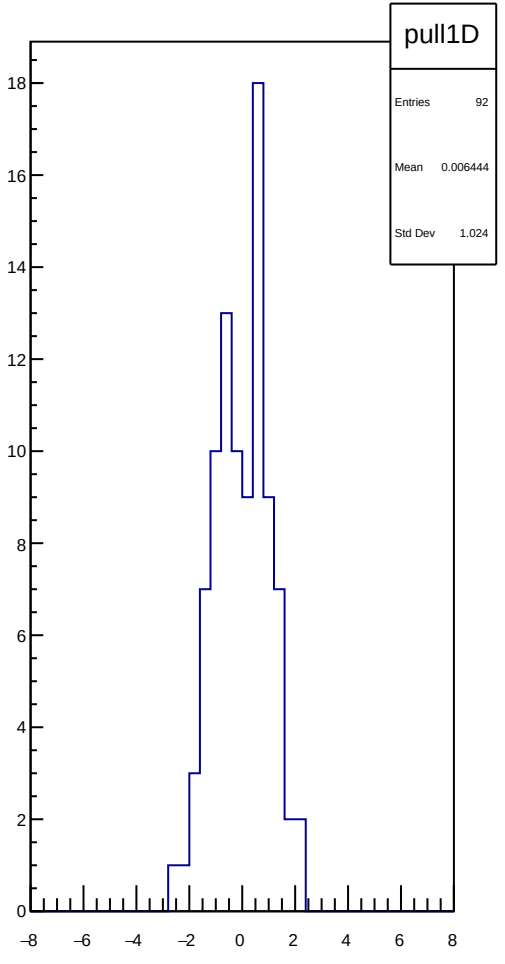

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.04 / 91
p0 −1.01e−05 ± 4.598e−06
pull
Entries 92
Mean 92.44
Std Dev 83.66
pull1D
Entries 92
Mean −0.003095
Std Dev 0.9782

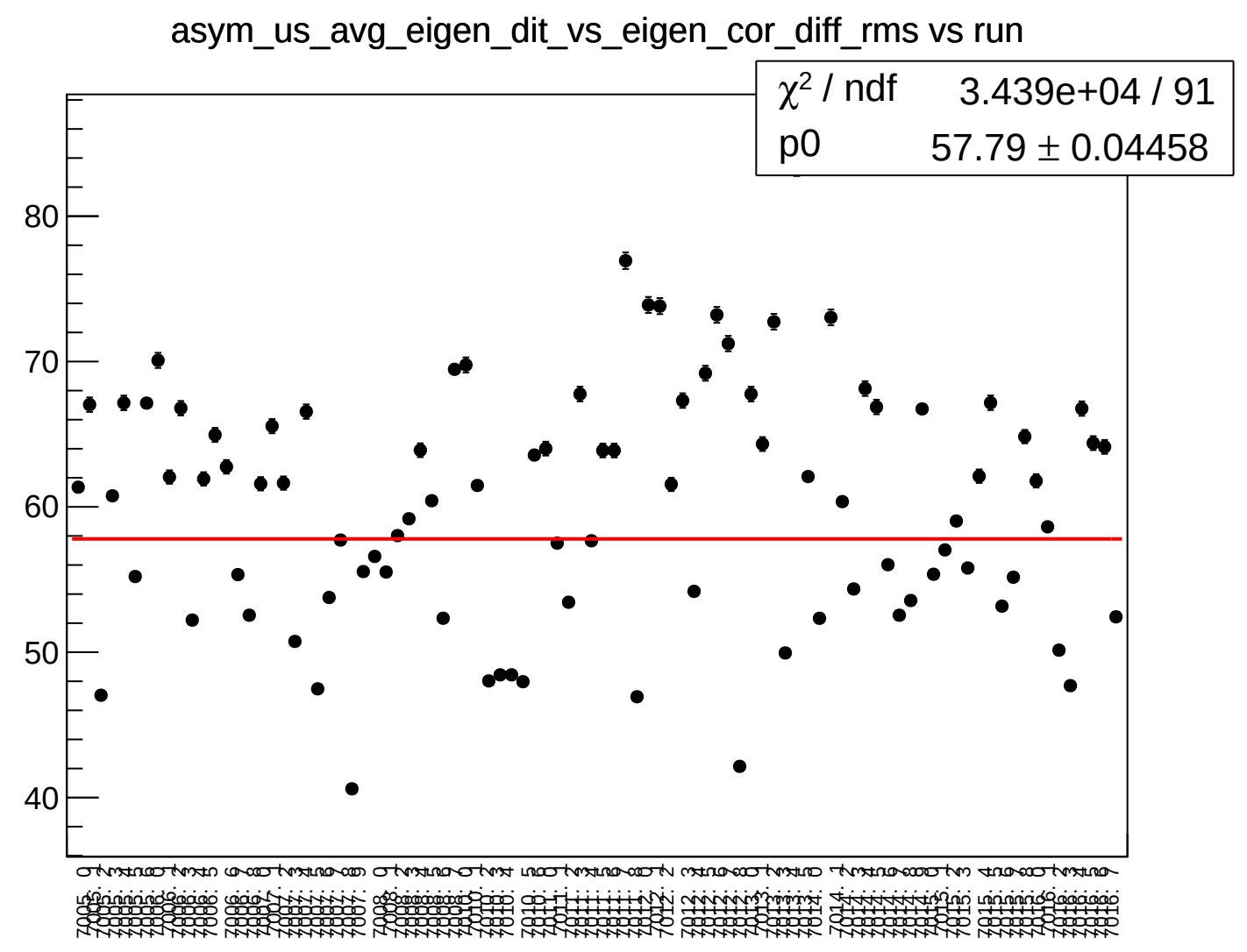

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4914 / 91
p0 0.004252 ± 3.251e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

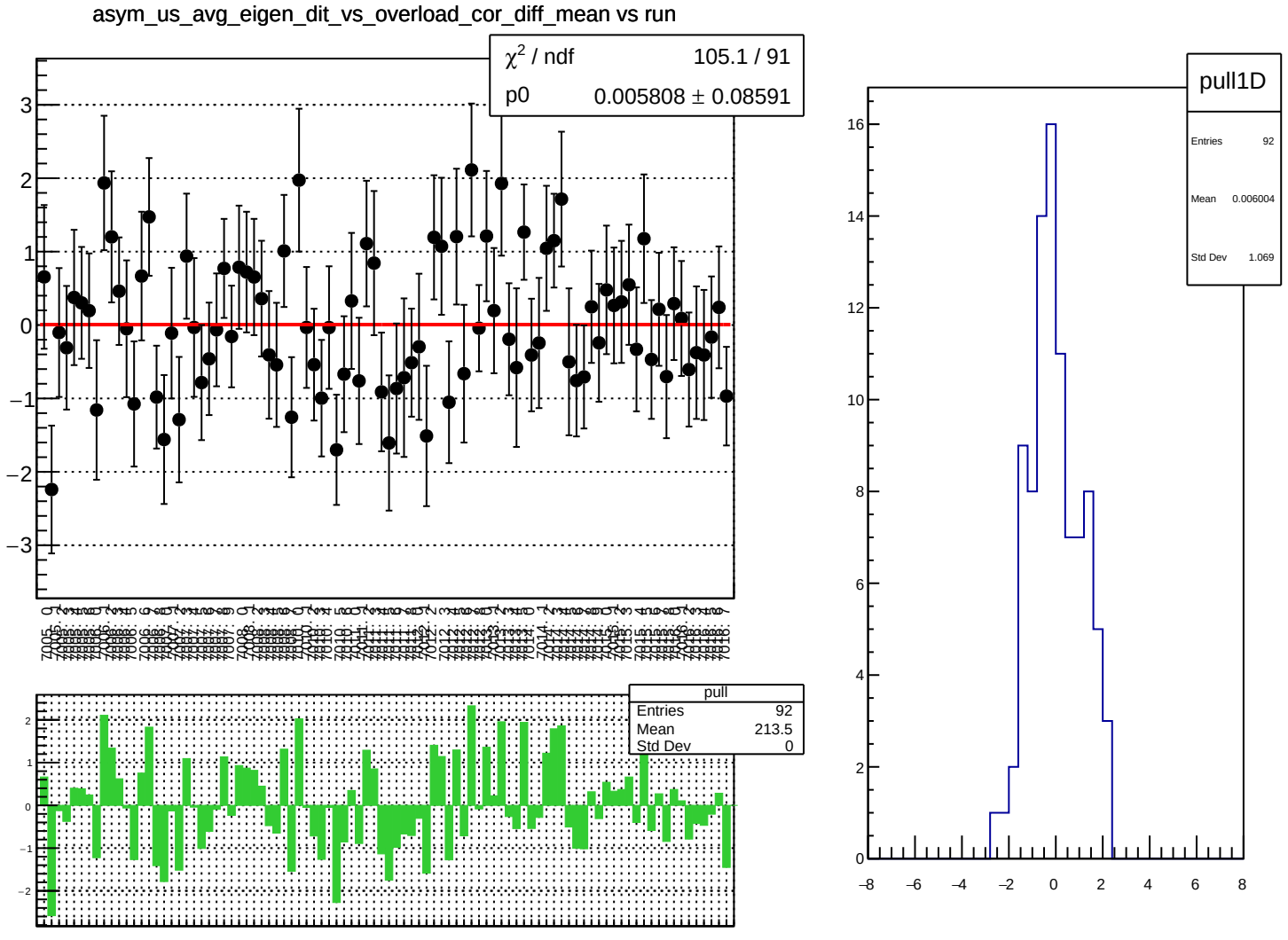

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.4 / 91
p0 0.03289 ± 0.06304
pull
Entries 92
Mean 96.01
Std Dev 0
pull1D
Entries 92
Mean 0.006444
Std Dev 1.024

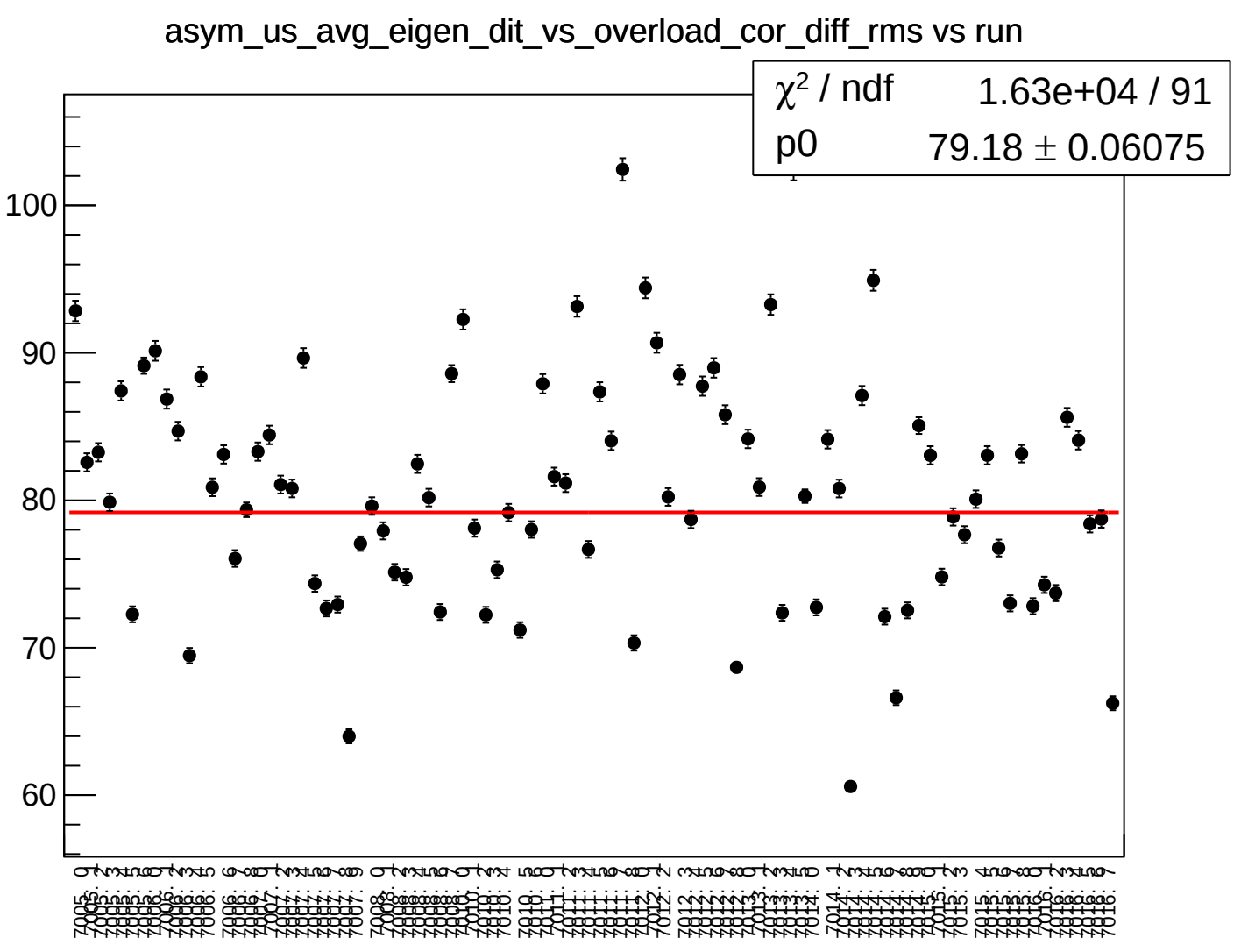

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.439e+04 / 91
p0 57.79 ± 0.04458
80
70
60
50
40

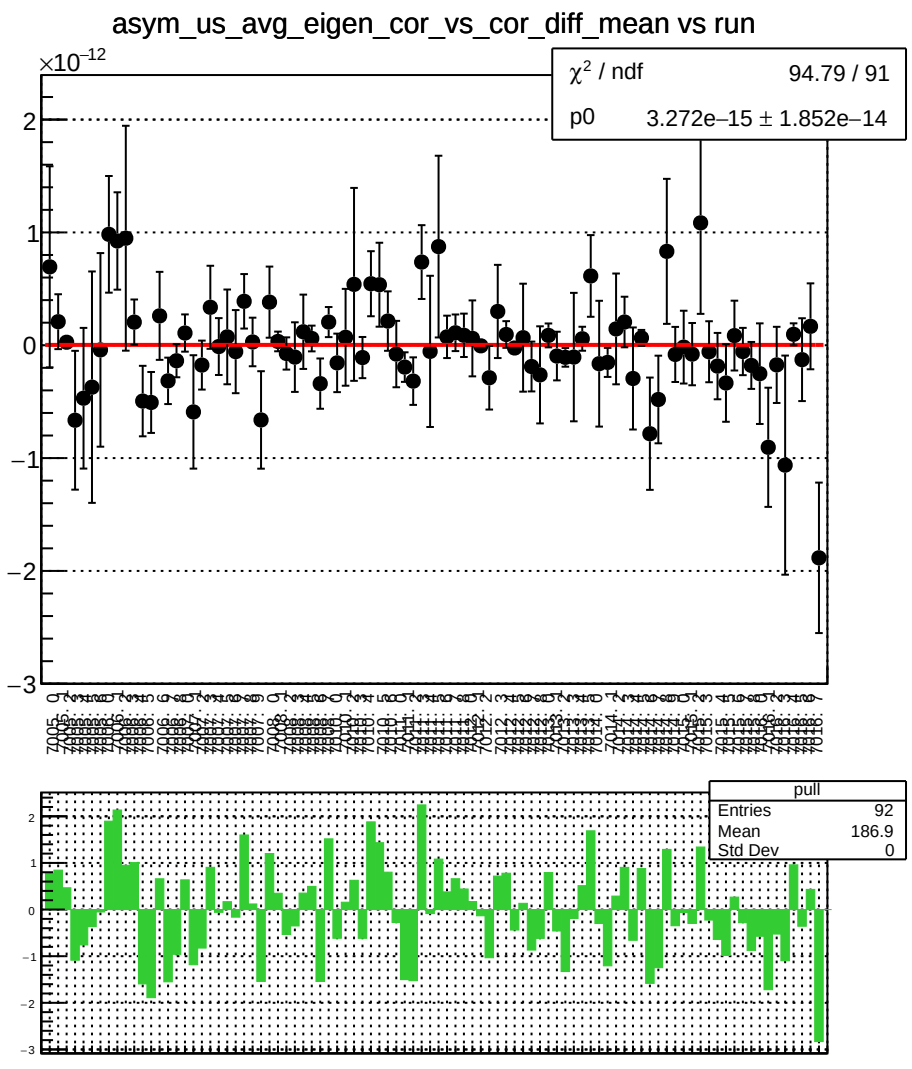

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.4 / 91
p0 0.03289 ± 0.06304
pull
Entries 92
Mean 96.01
Std Dev 0

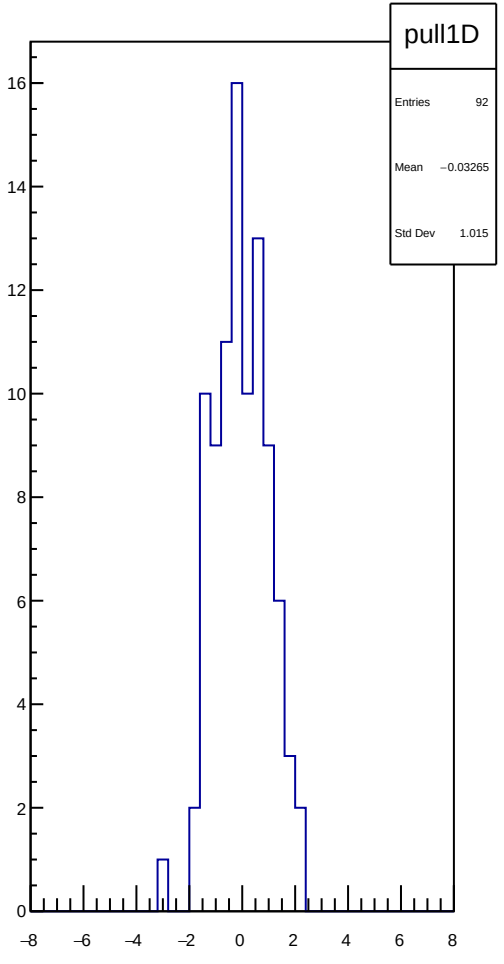

pull1D
Entries 92
Mean 0.006444
Std Dev 1.024

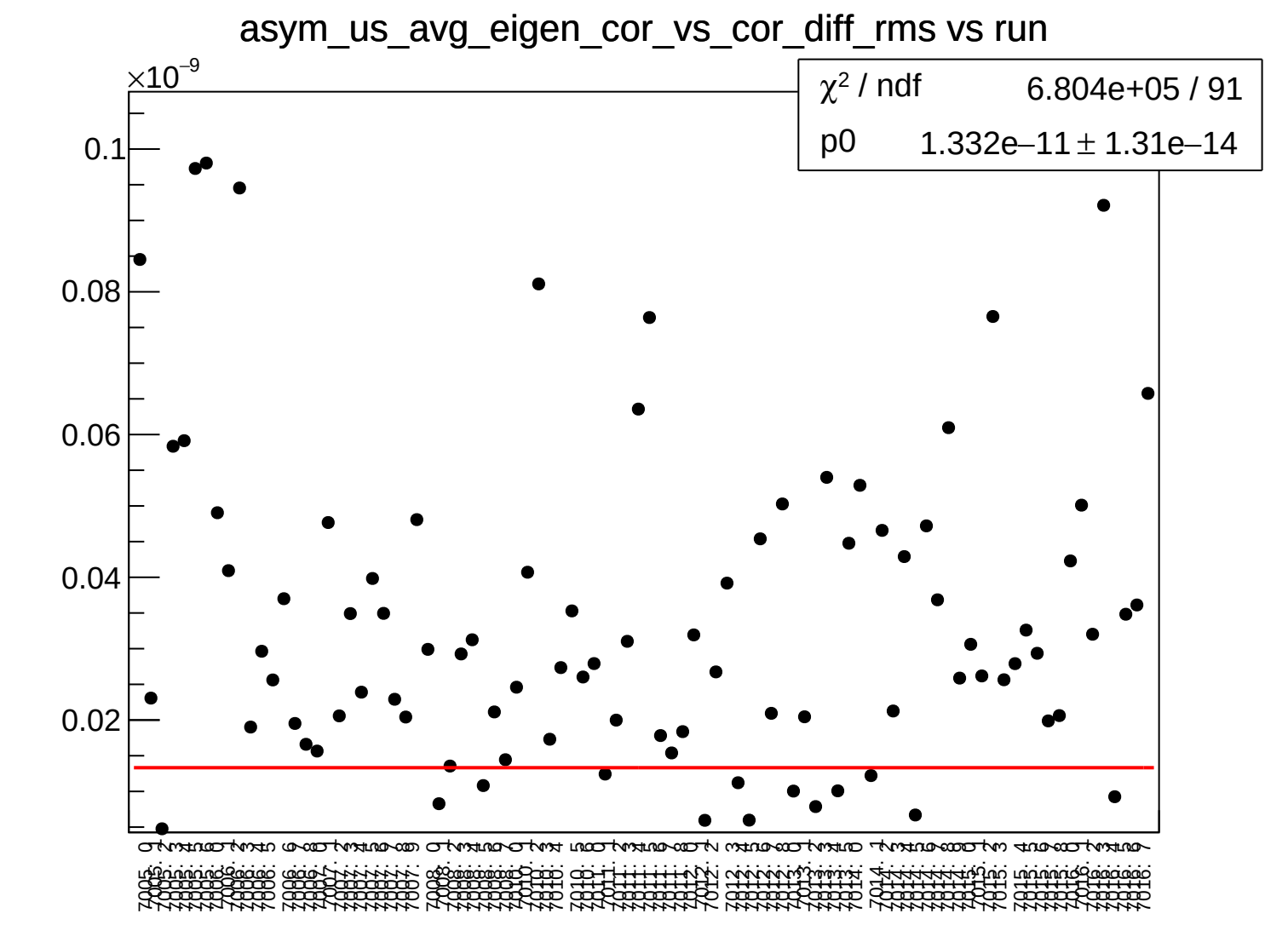

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.439e+04 / 91
p0 57.79 ± 0.04458
80
70
60
50
40

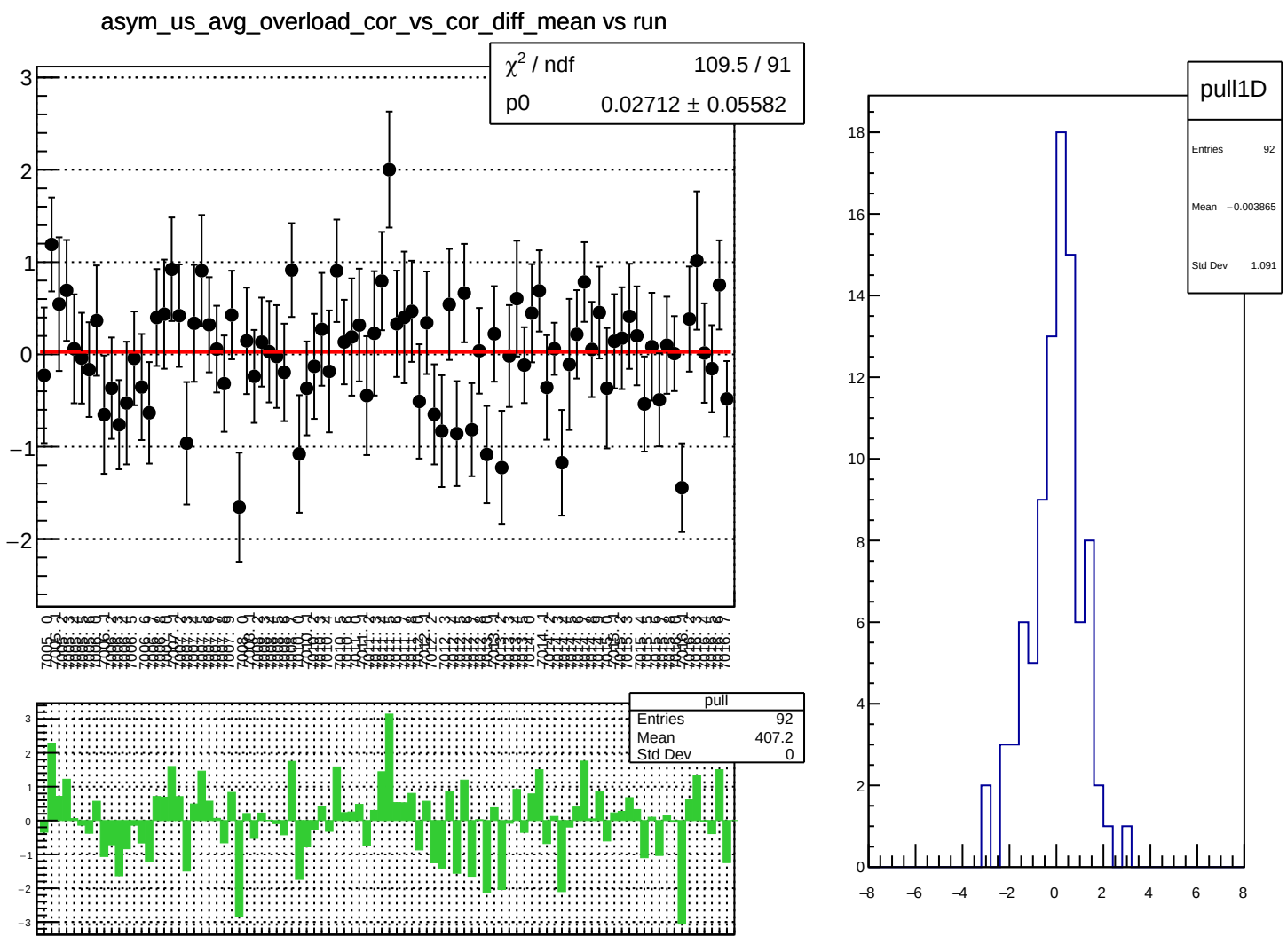

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 105.1 / 91
p0 0.005808 ± 0.08591
pull
Entries 92
Mean 213.5
Std Dev 0
pull1D
Entries 92
Mean 0.006004
Std Dev 1.069

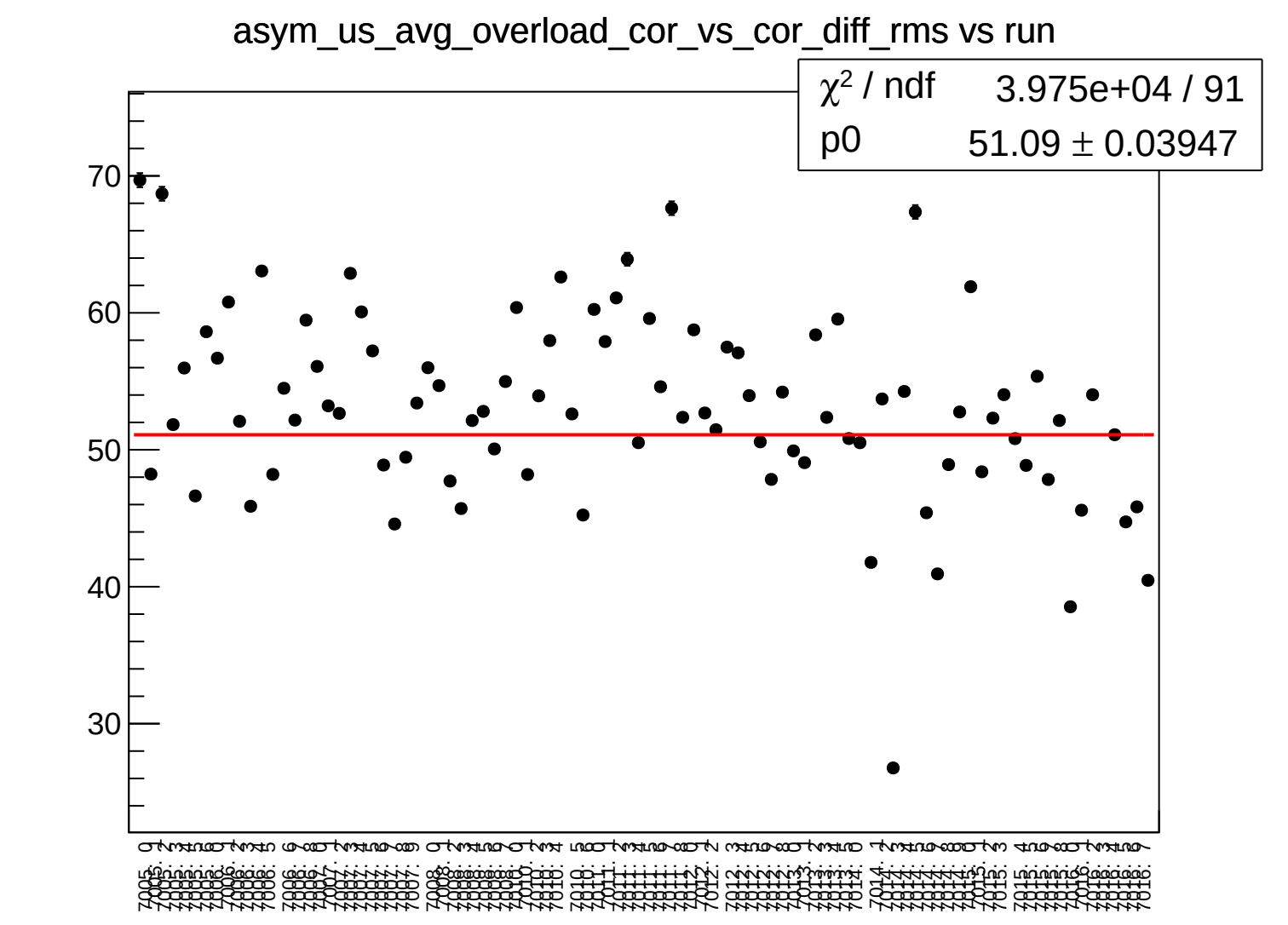

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.63e+04 / 91
p0 79.18 ± 0.06075
100
90
80
70
60

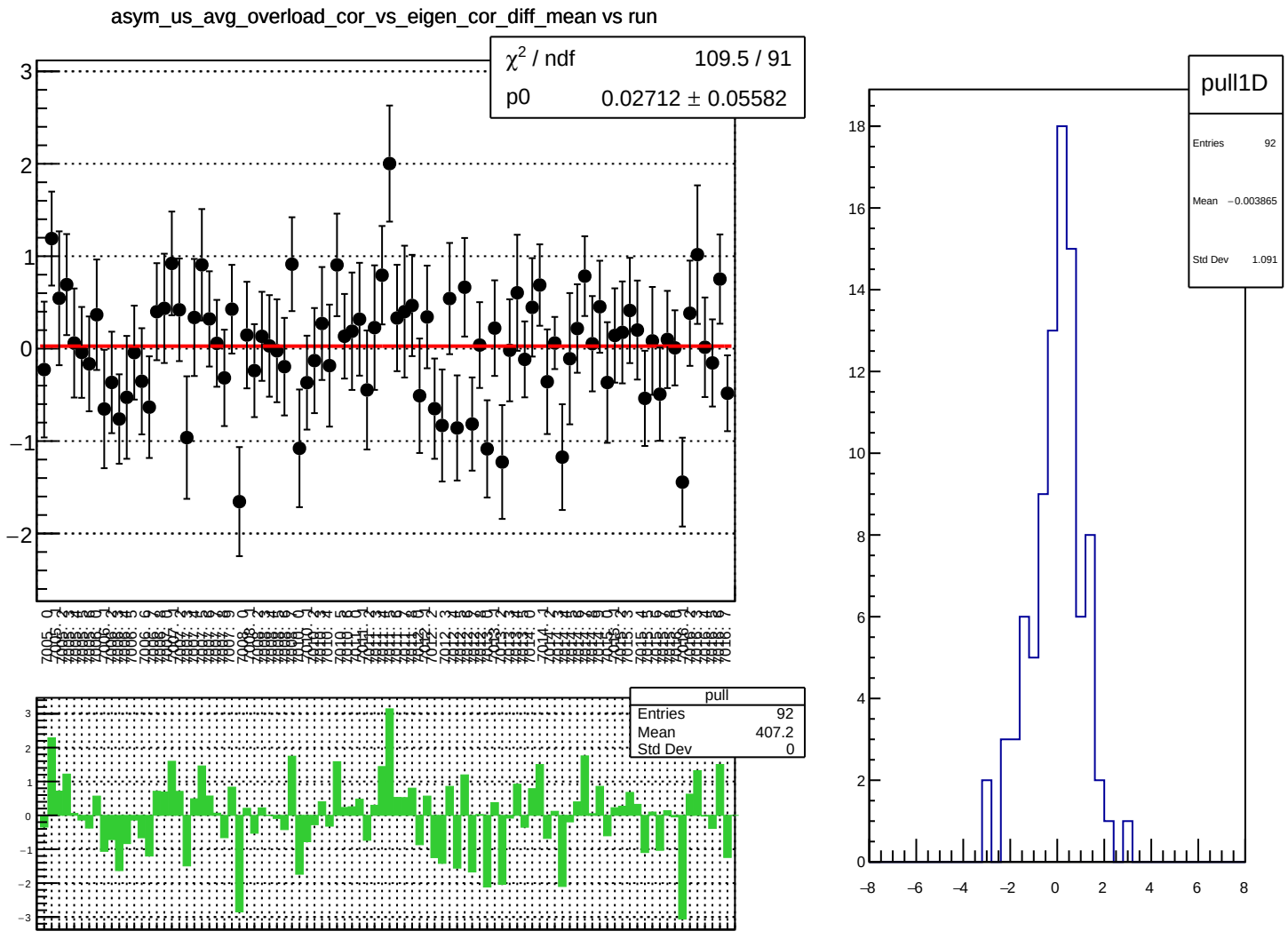

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.79 / 91
p0 3.272e−15 ± 1.852e−14
pull
Entries 92
Mean 186.9
Std Dev 0

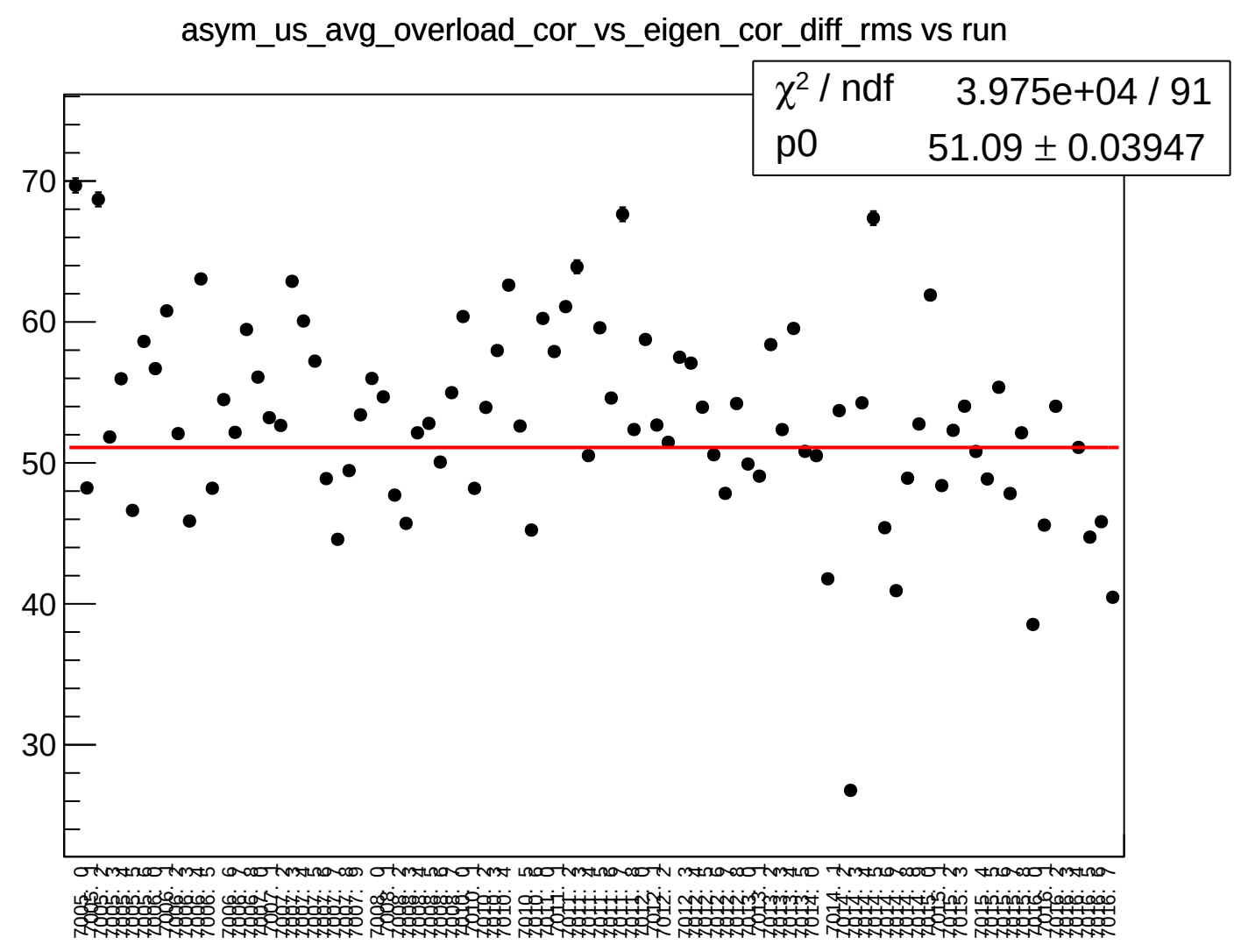

pull1D
Entries 92
Mean −0.03265
Std Dev 1.015

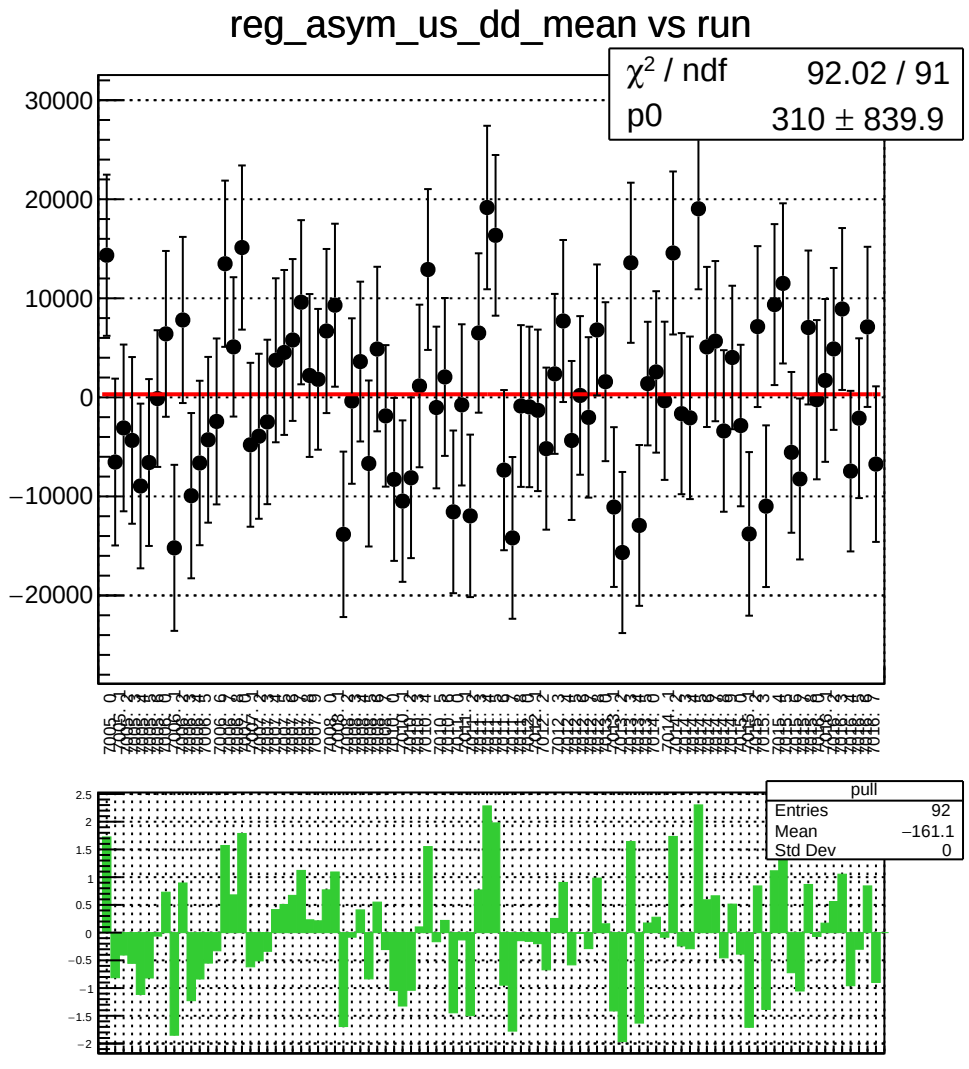

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.804e+05 / 91
p0 1.332e−11 ± 1.31e−14
0.1
0.08
0.06
0.04
0.02

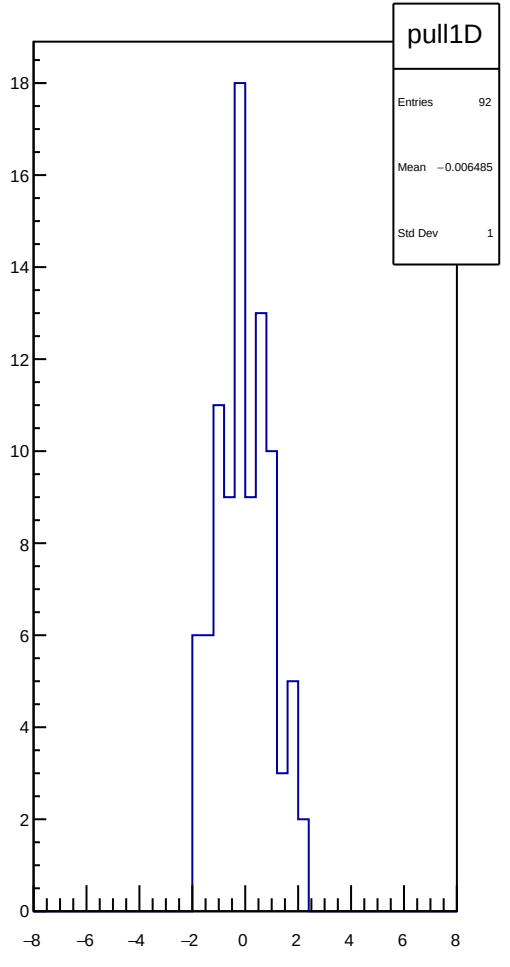

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 109.5 / 91
p0 0.02712 ± 0.05582
pull
Entries 92
Mean 407.2
Std Dev 0
pull1D
Entries 92
Mean −0.003865
Std Dev 1.091

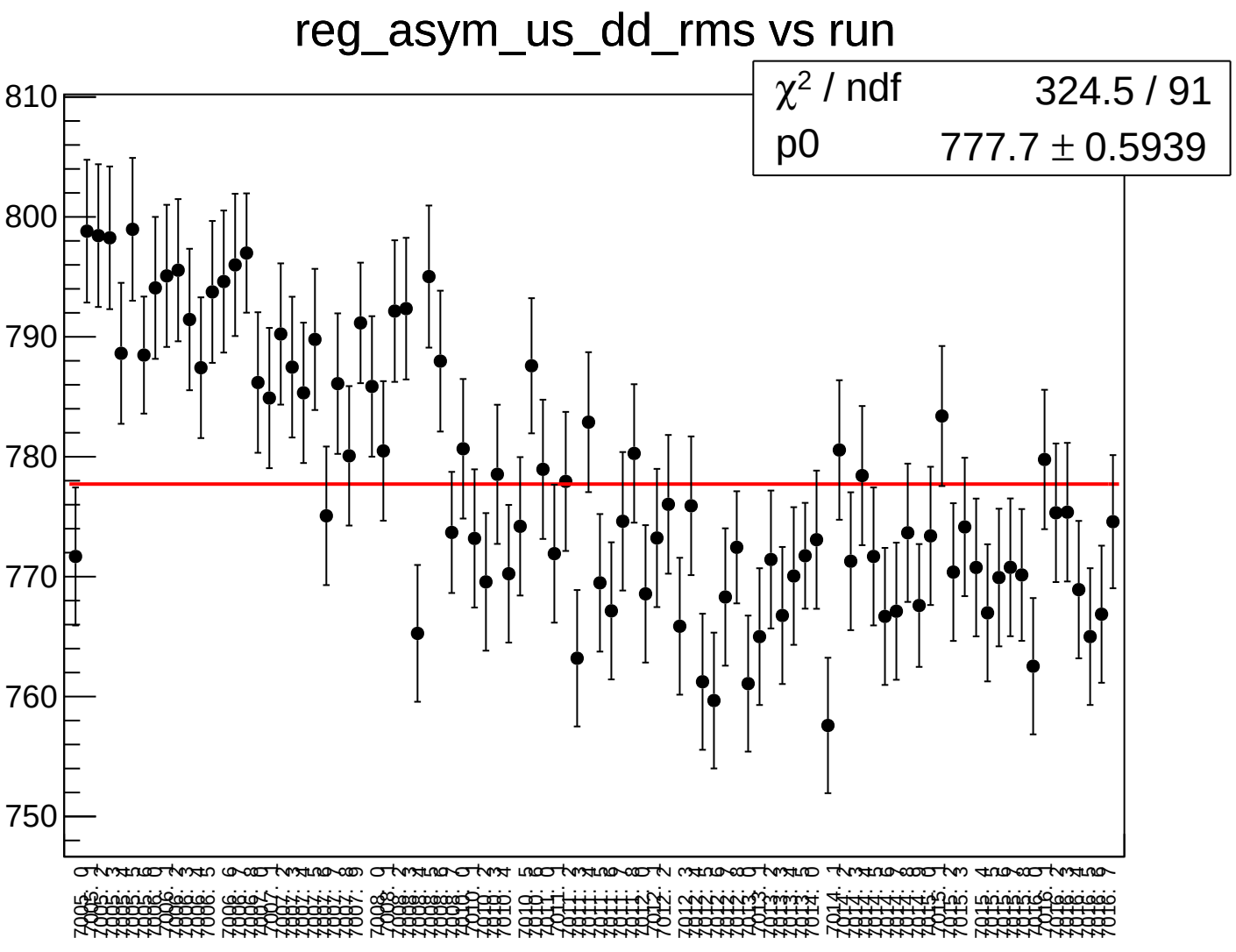

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.975e+04 / 91
p0 51.09 ± 0.03947
70
60
50
40
30

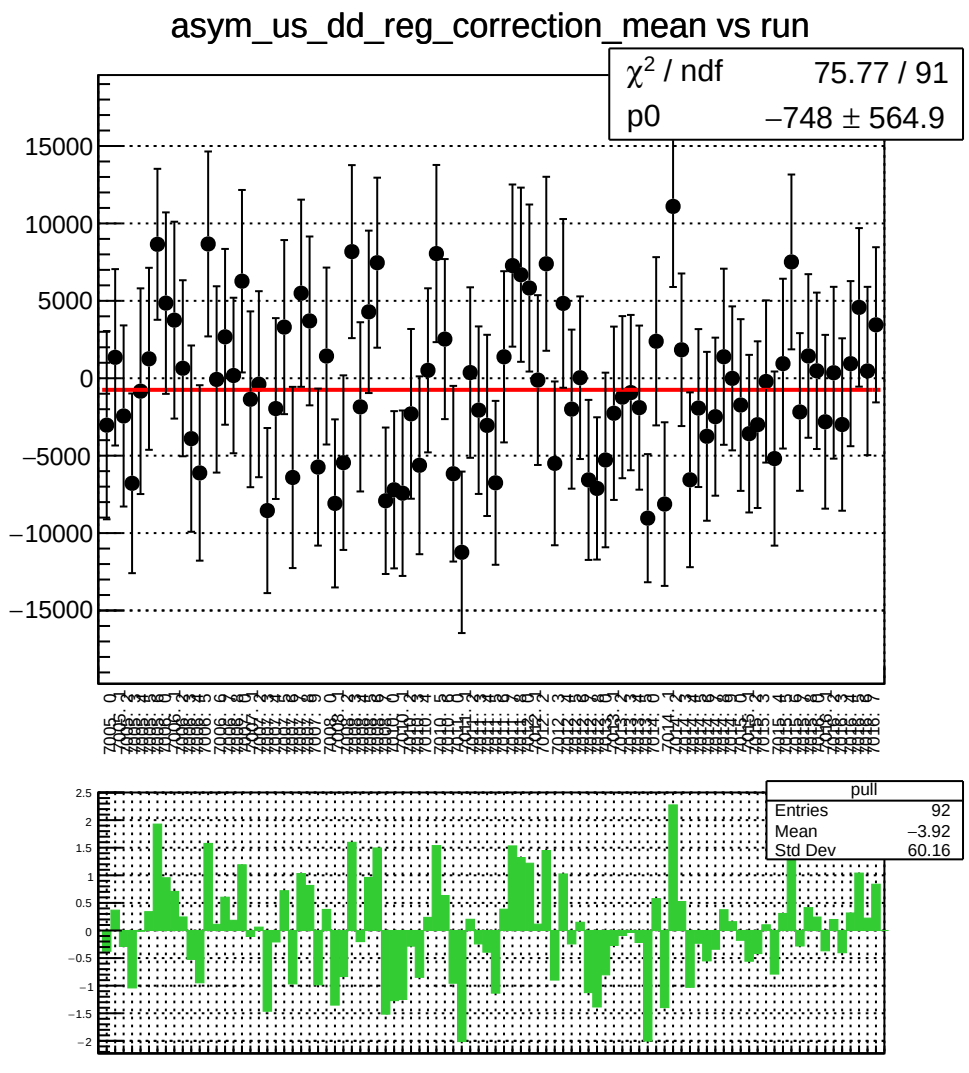

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.5 / 91
p0 0.02712 ± 0.05582
pull
Entries 92
Mean 407.2
Std Dev 0
pull1D
Entries 92
Mean −0.003865
Std Dev 1.091

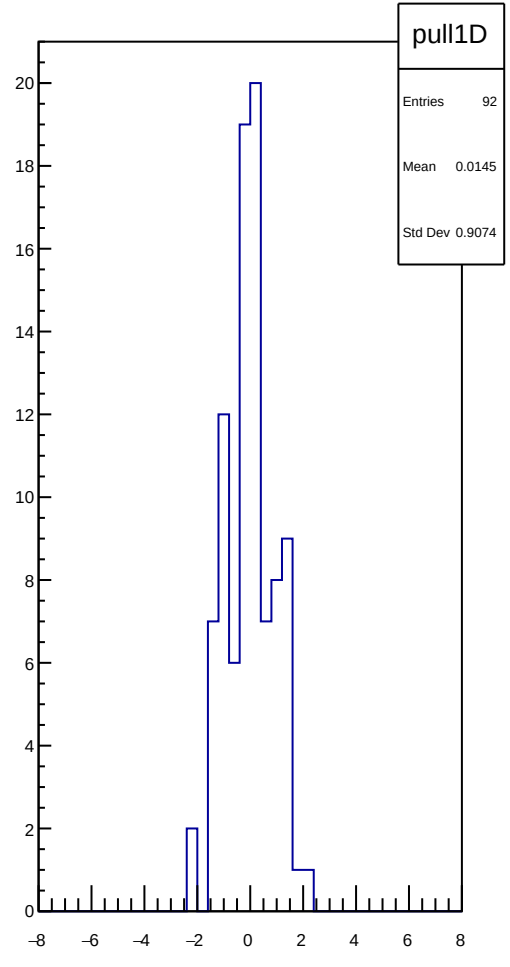

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.975e+04 / 91
p0 51.09 ± 0.03947
70
60
50
40
30

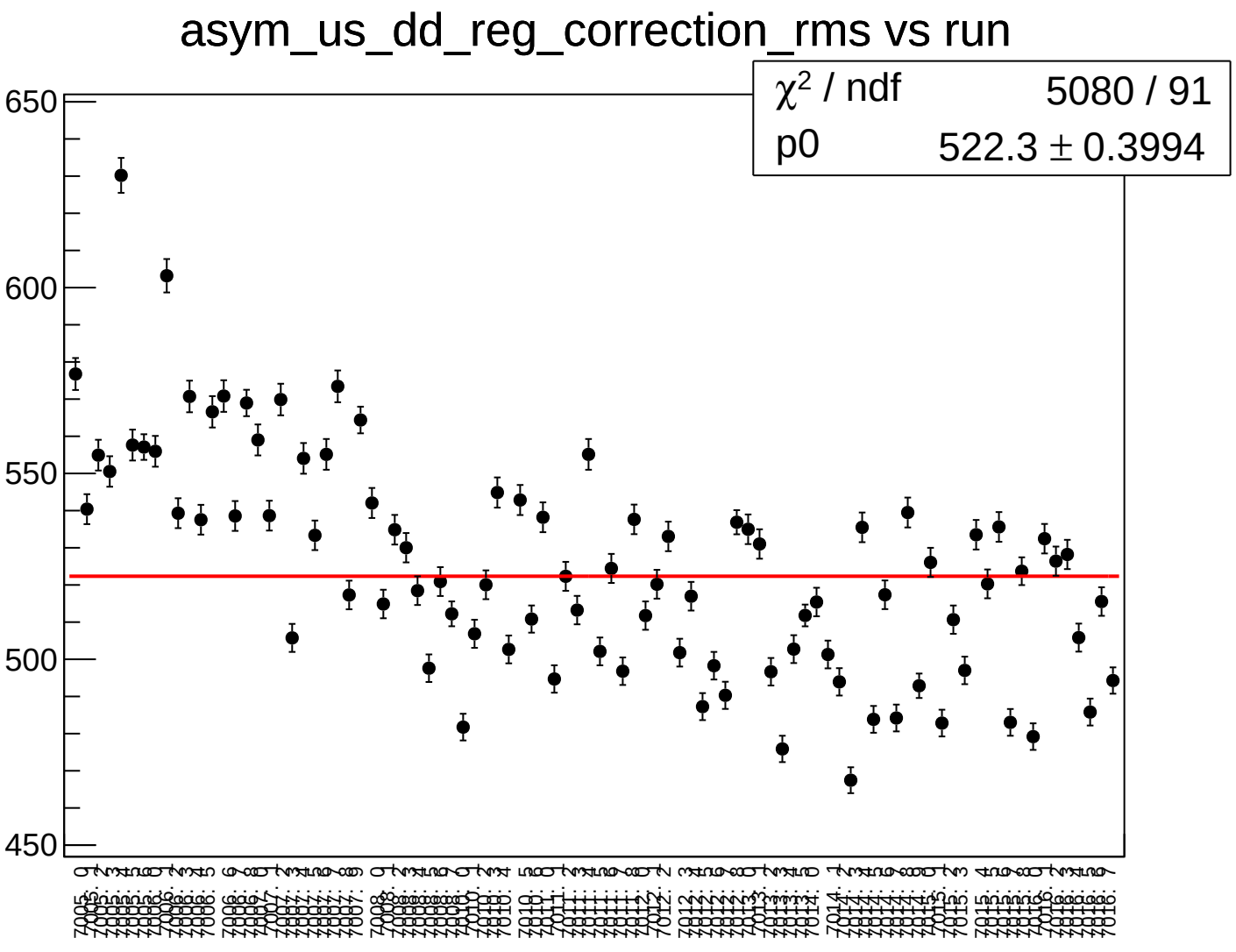

reg_asym_us_dd_mean vs run
χ² / ndf 92.02 / 91
p0 310 ± 839.9
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −161.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

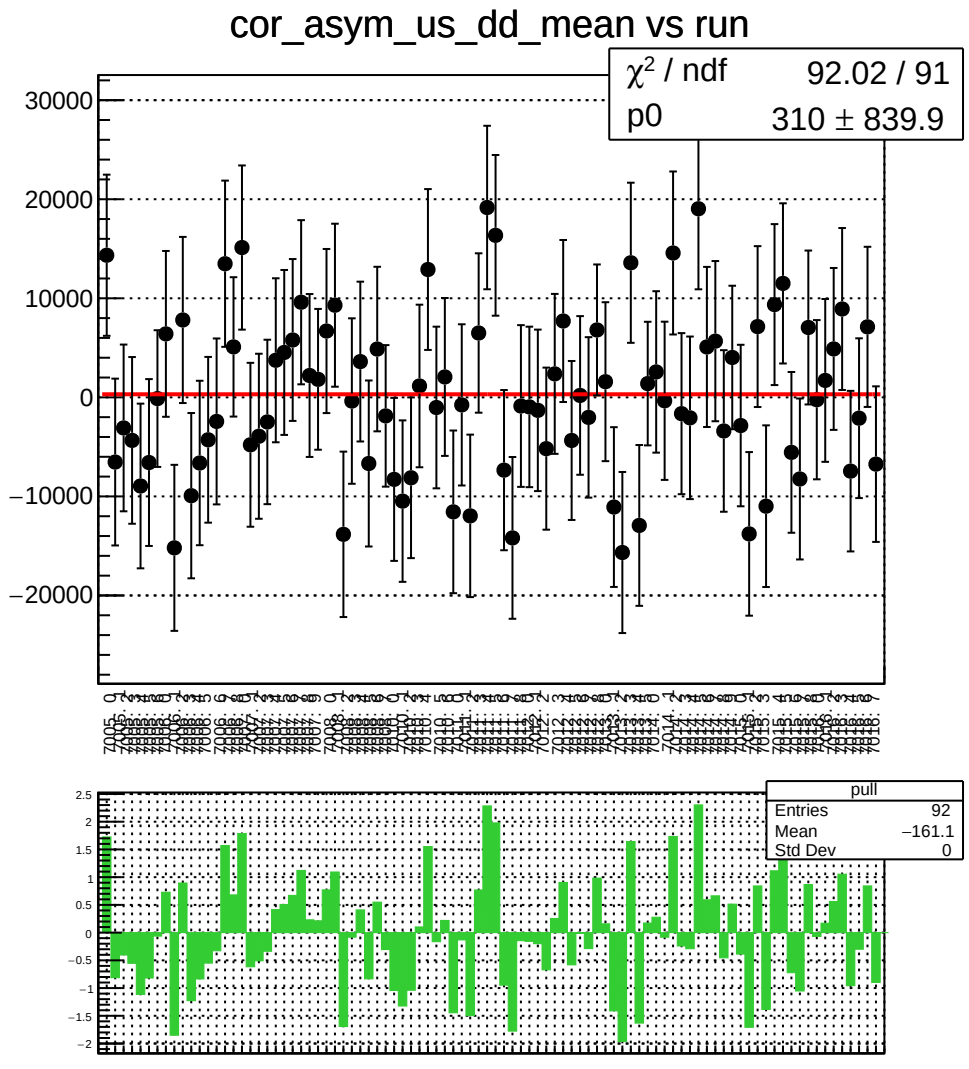

pull1D
Entries 92
Mean −0.006485
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

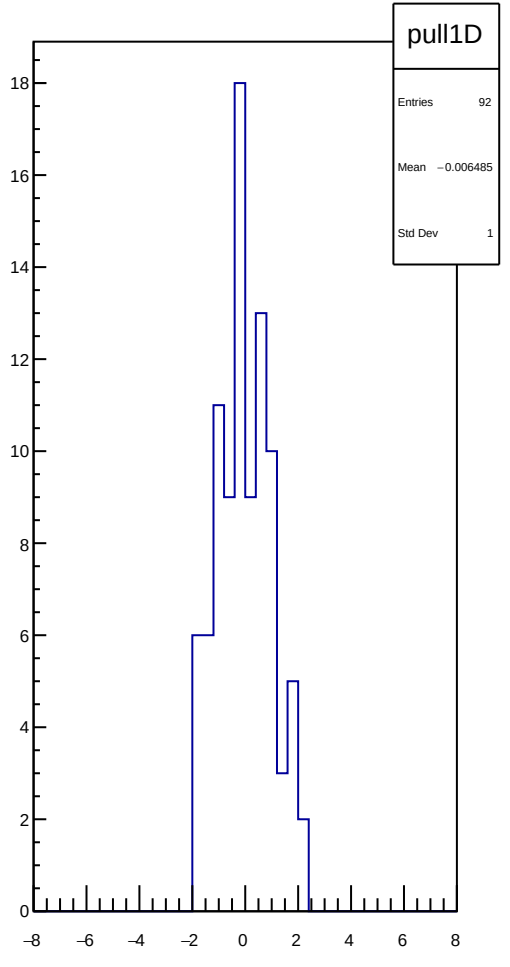

reg_asym_us_dd_rms vs run
χ² / ndf 324.5 / 91
p0 777.7 ± 0.5939
810
800
790
780
770
760
750

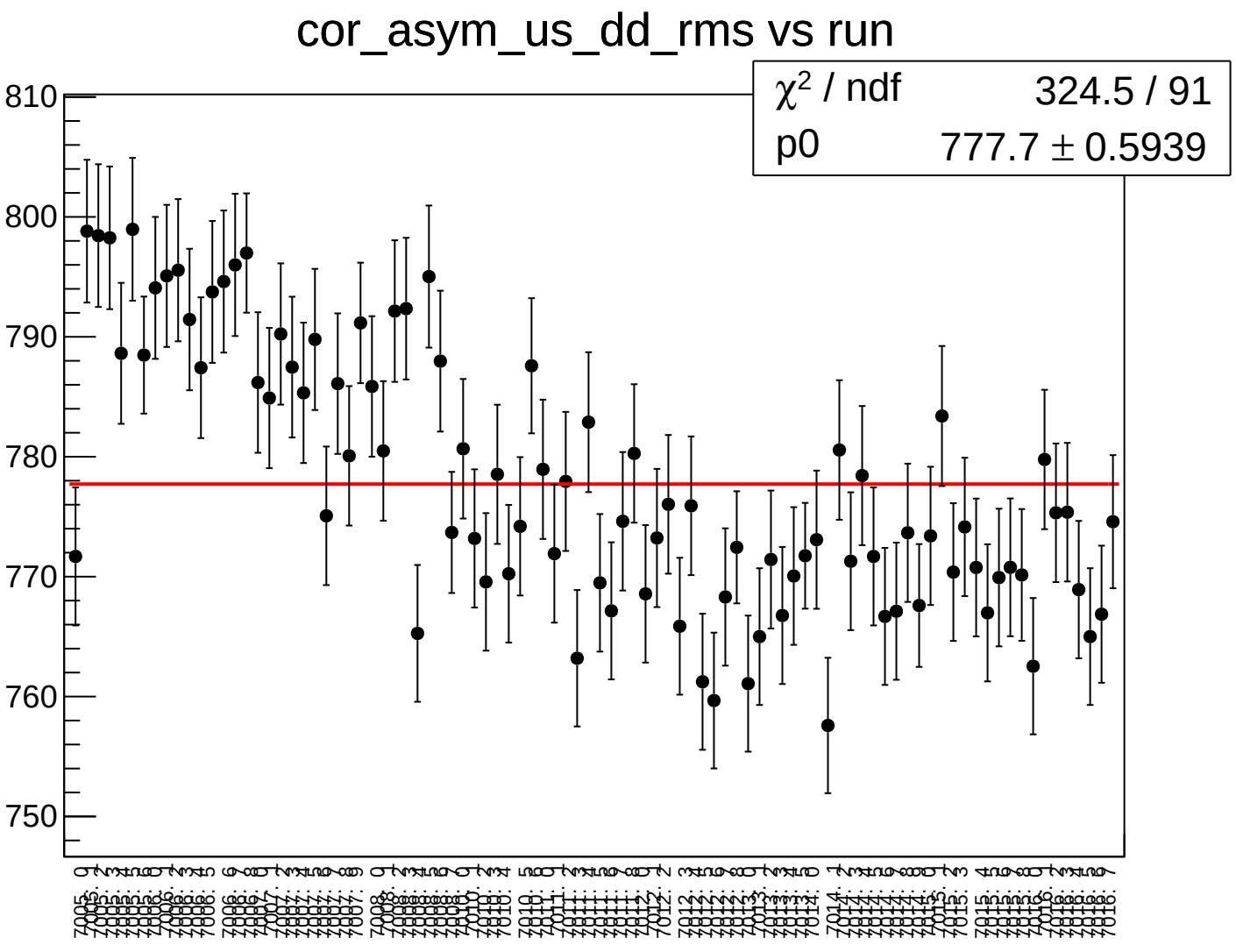

asym_us_dd_reg_correction_mean vs run
χ² / ndf 75.77 / 91
p0 −748 ± 564.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −3.92
Std Dev 60.16
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

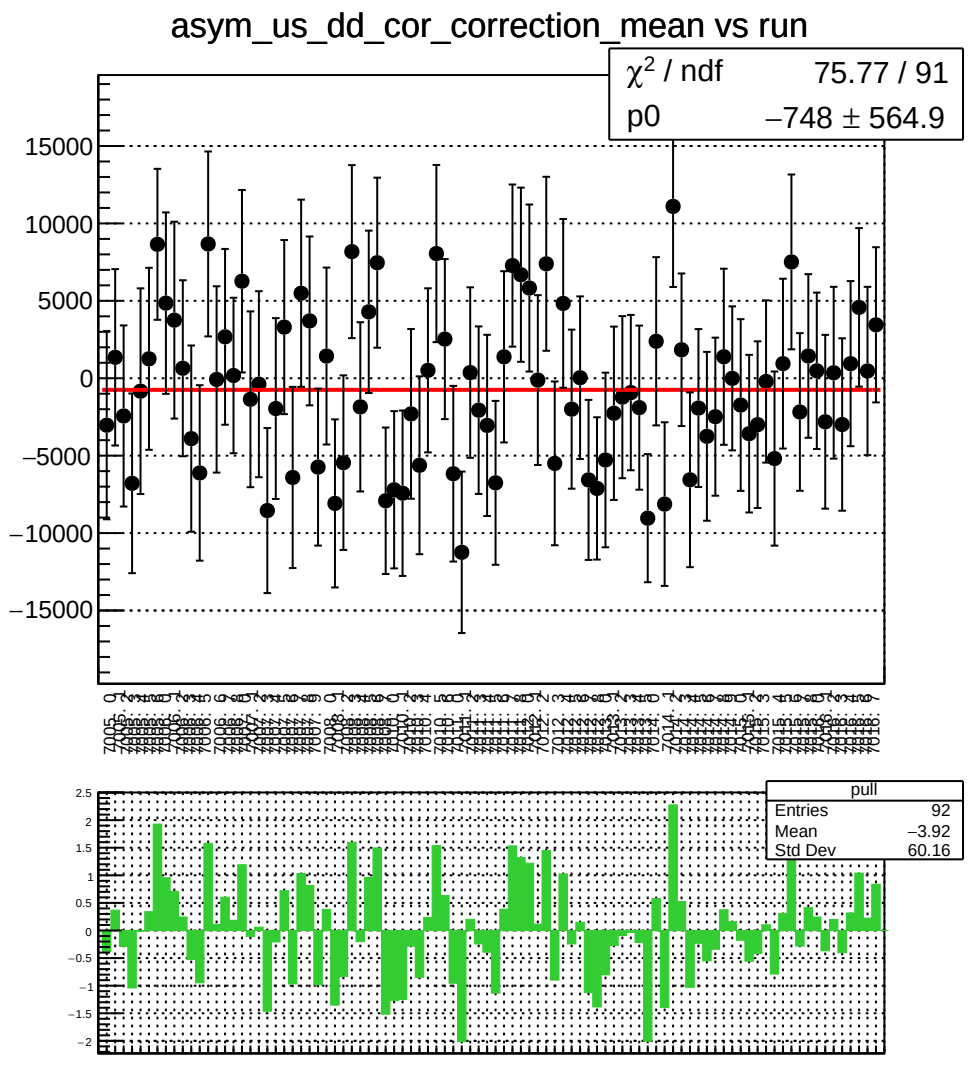

pull1D
Entries 92
Mean 0.0145
Std Dev 0.9074
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

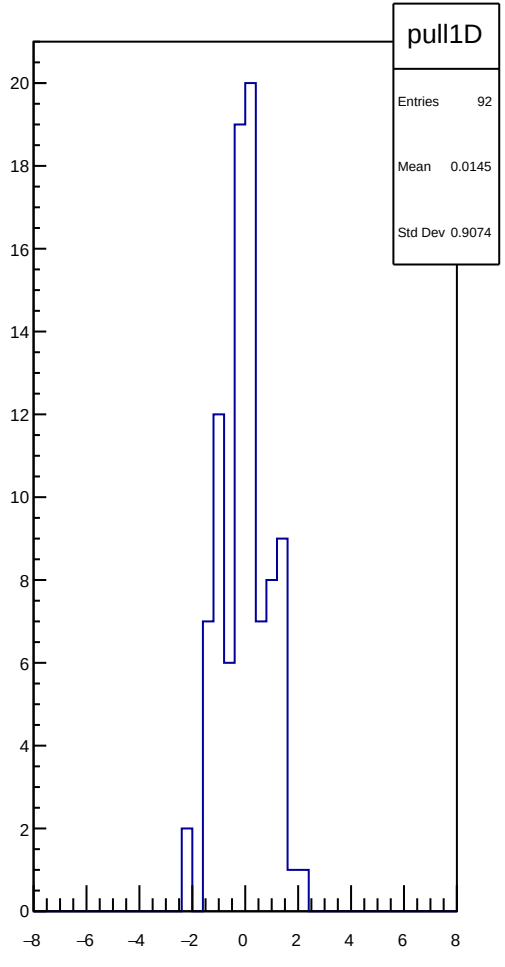

asym_us_dd_reg_correction_rms vs run
χ² / ndf 5080 / 91
p0 522.3 ± 0.3994
650
600
550
500
450

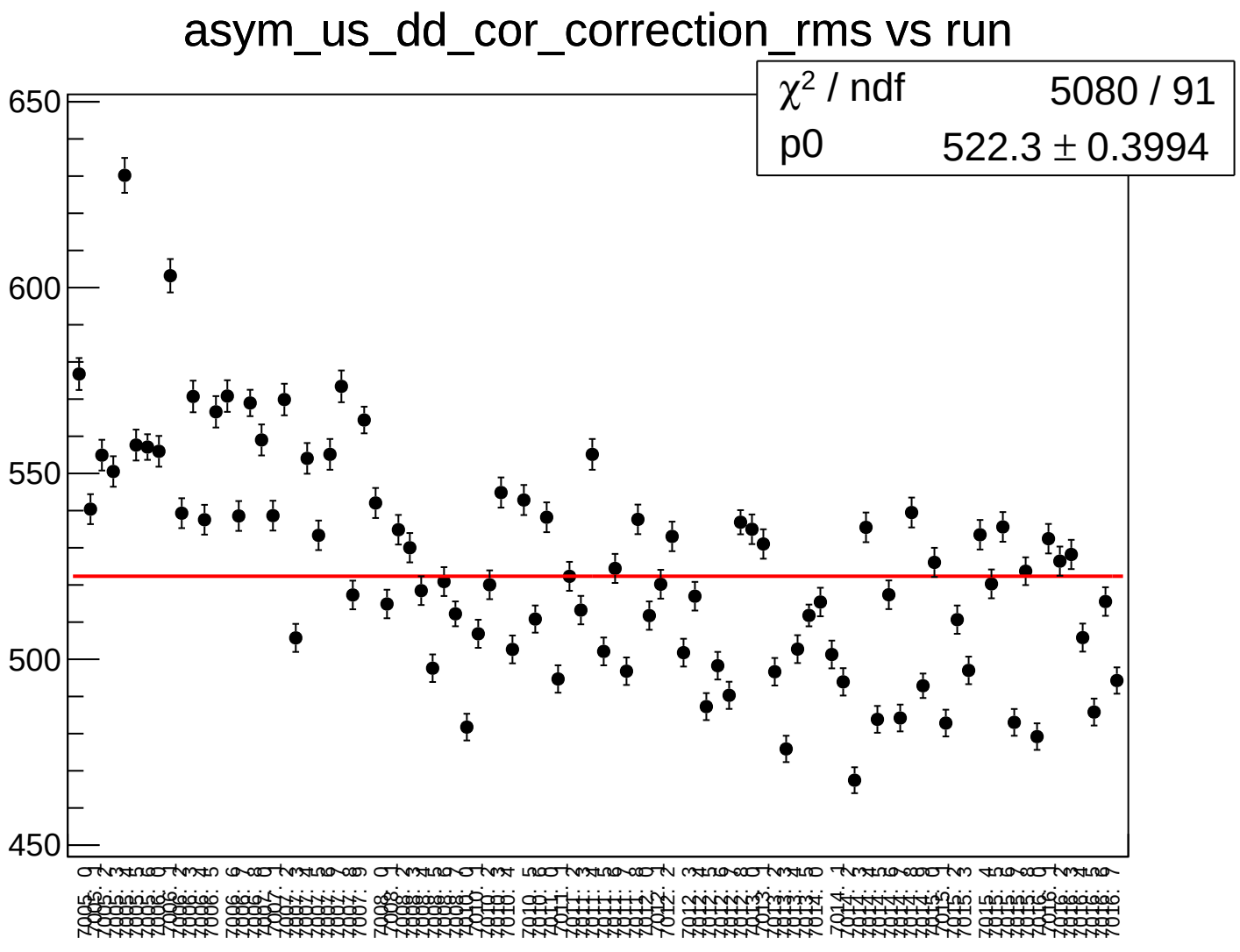

cor_asym_us_dd_mean vs run
χ² / ndf 92.02 / 91
p0 310 ± 839.9
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −161.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

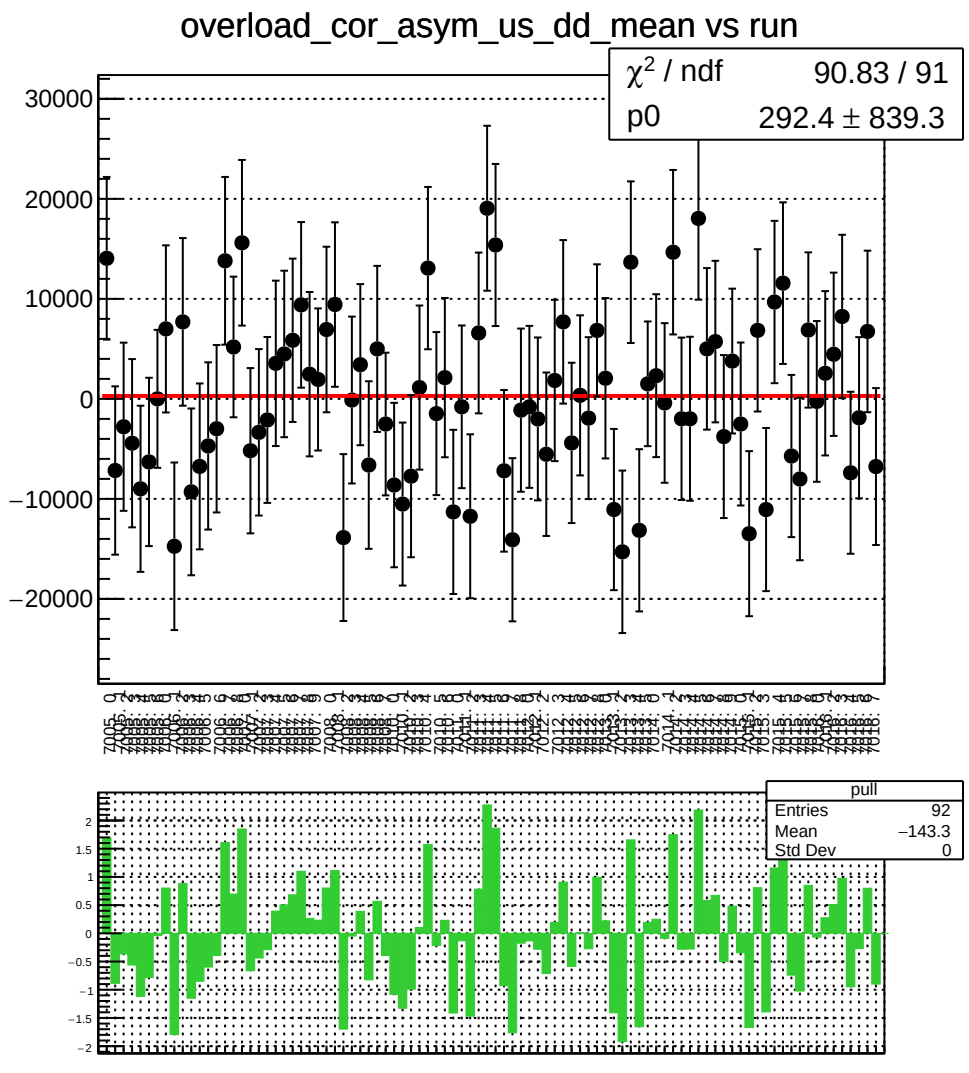

pull1D
Entries 92
Mean −0.006485
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

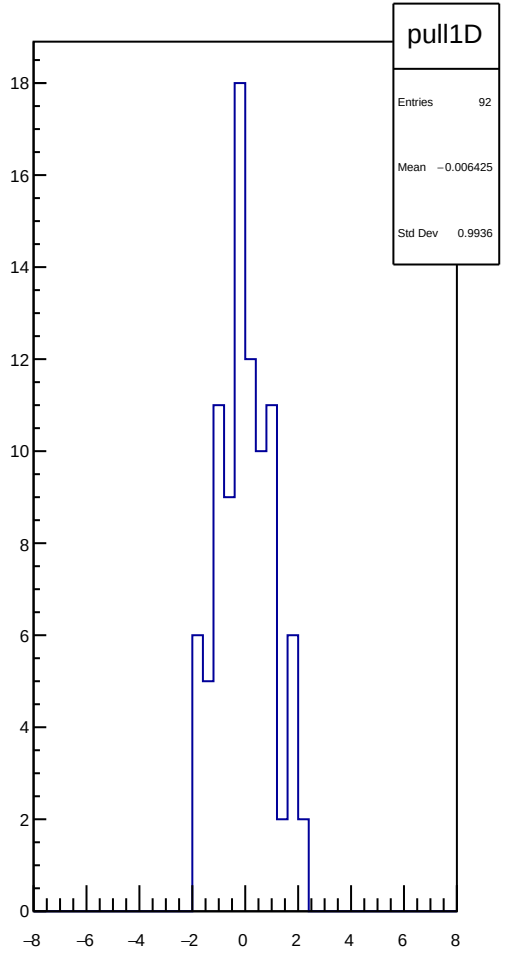

cor_asym_us_dd_rms vs run
χ² / ndf 324.5 / 91
p0 777.7 ± 0.5939
810
800
790
780
770
760
750

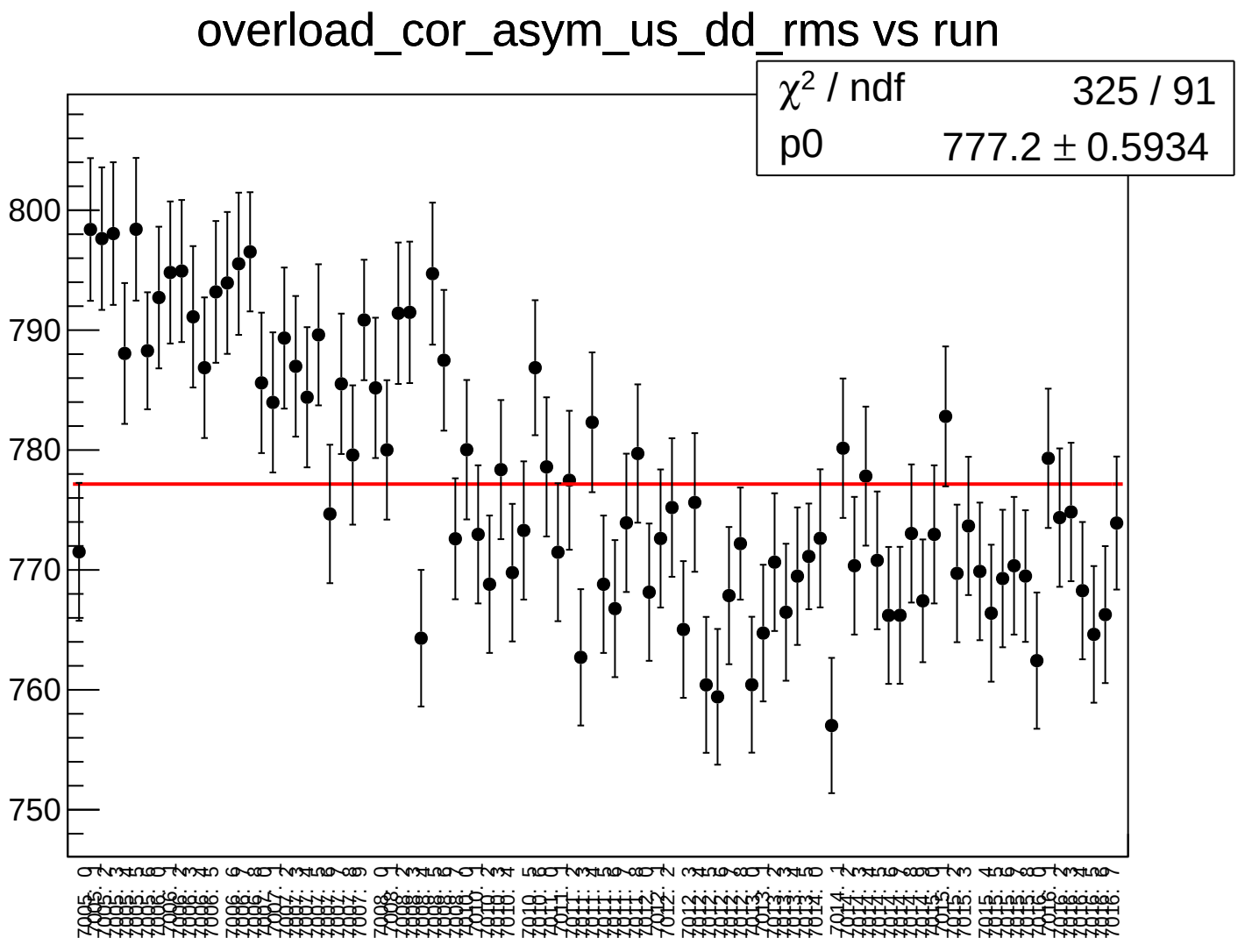

asym_us_dd_cor_correction_mean vs run
χ² / ndf 75.77 / 91
p0 −748 ± 564.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −3.92
Std Dev 60.16
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

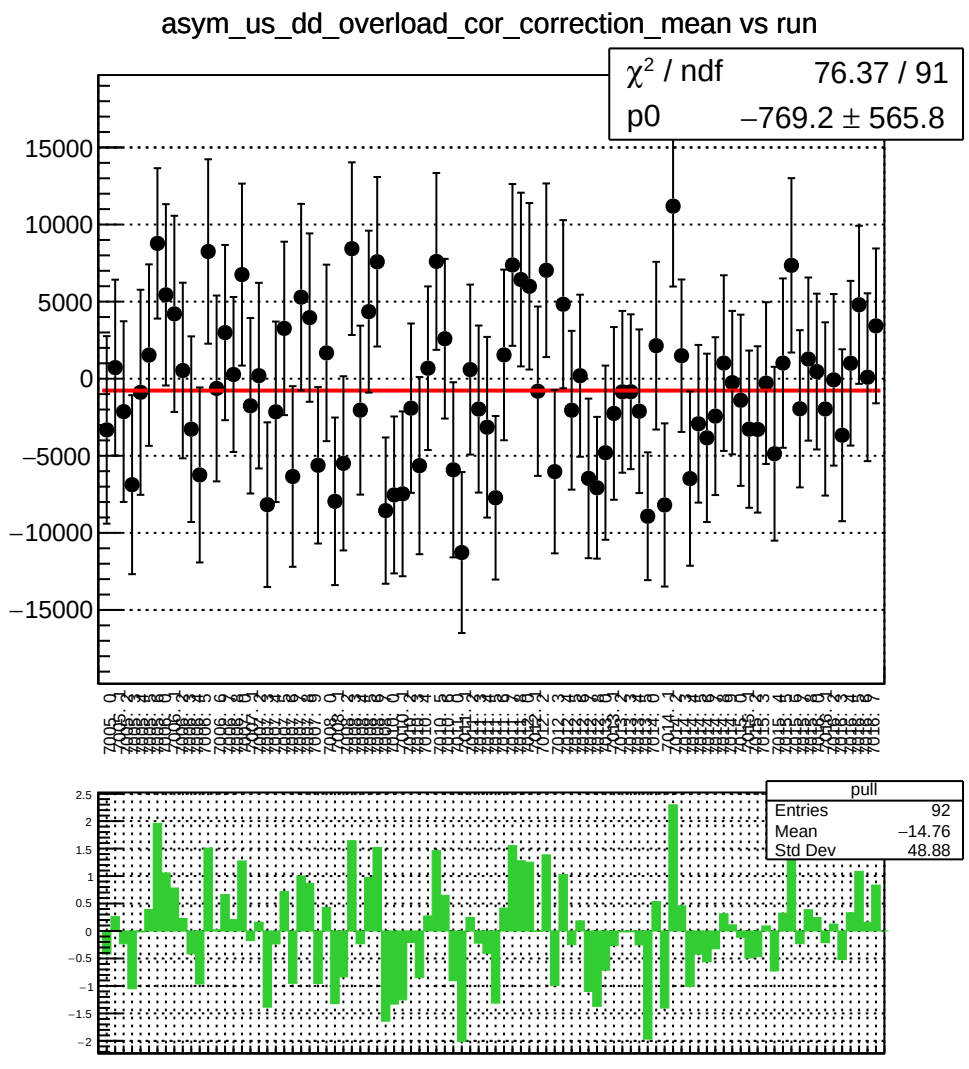

pull1D
Entries 92
Mean 0.0145
Std Dev 0.9074
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

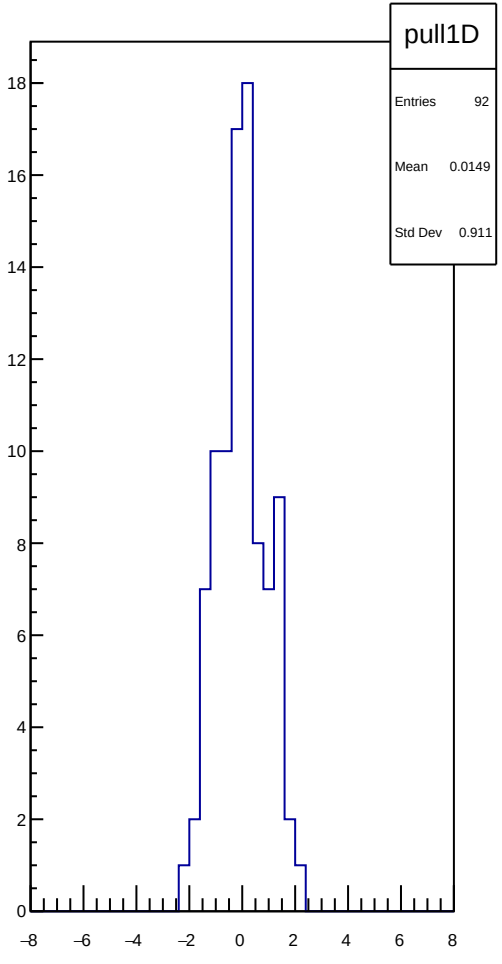

asym_us_dd_cor_correction_rms vs run
χ² / ndf 5080 / 91
p0 522.3 ± 0.3994
650
600
550
500
450

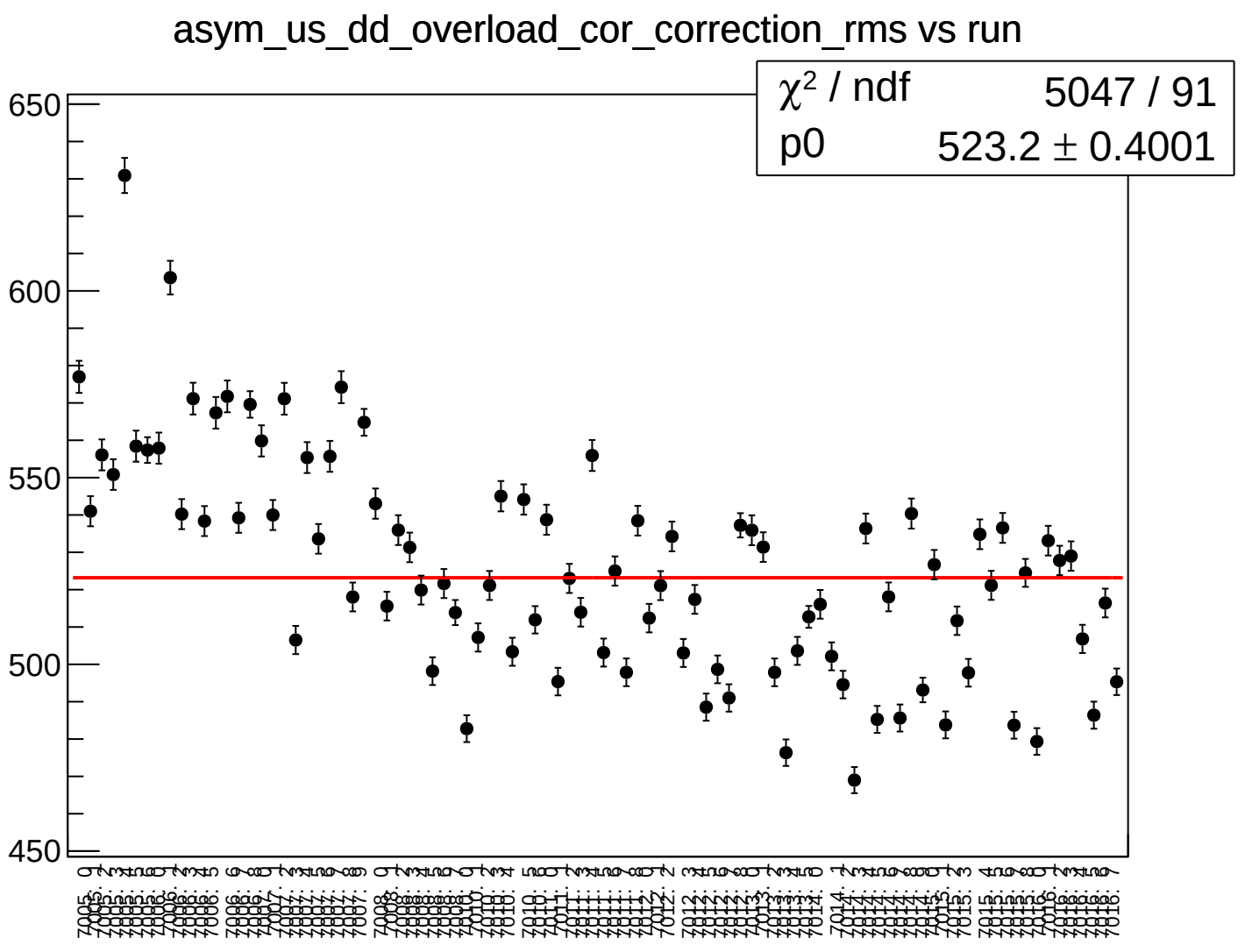

overload_cor_asym_us_dd_mean vs run
χ² / ndf 90.83 / 91
p0 292.4 ± 839.3
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −143.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

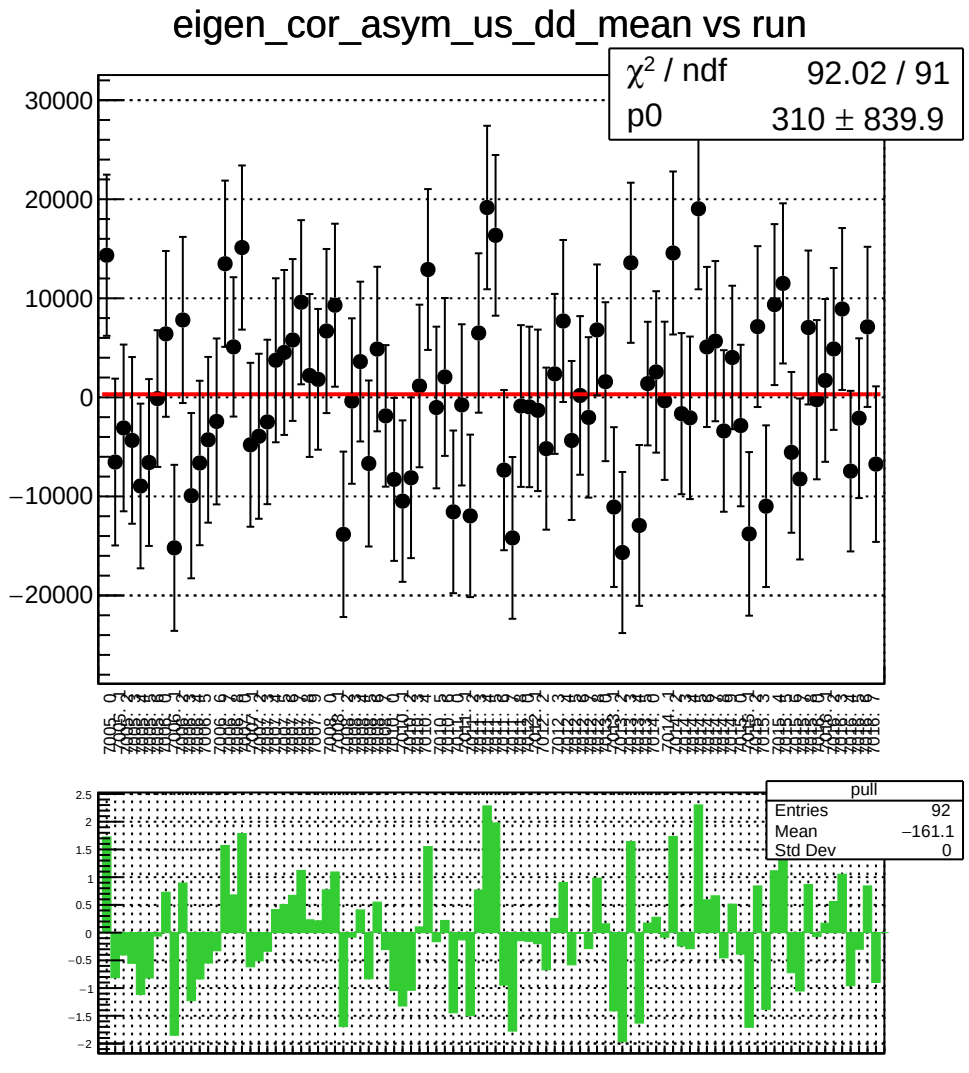

pull1D
Entries 92
Mean −0.006425
Std Dev 0.9936
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

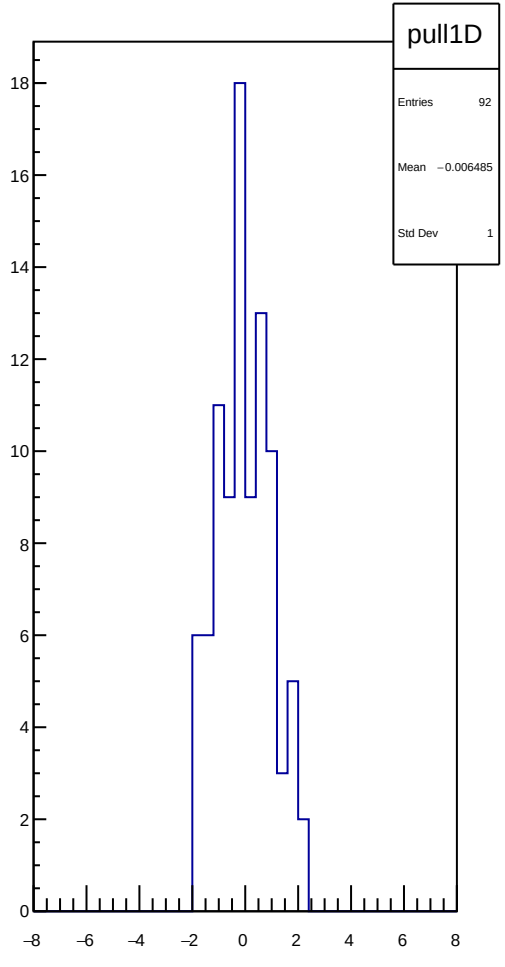

overload_cor_asym_us_dd_rms vs run
χ² / ndf 325 / 91
p0 777.2 ± 0.5934
800
790
780
770
760
750

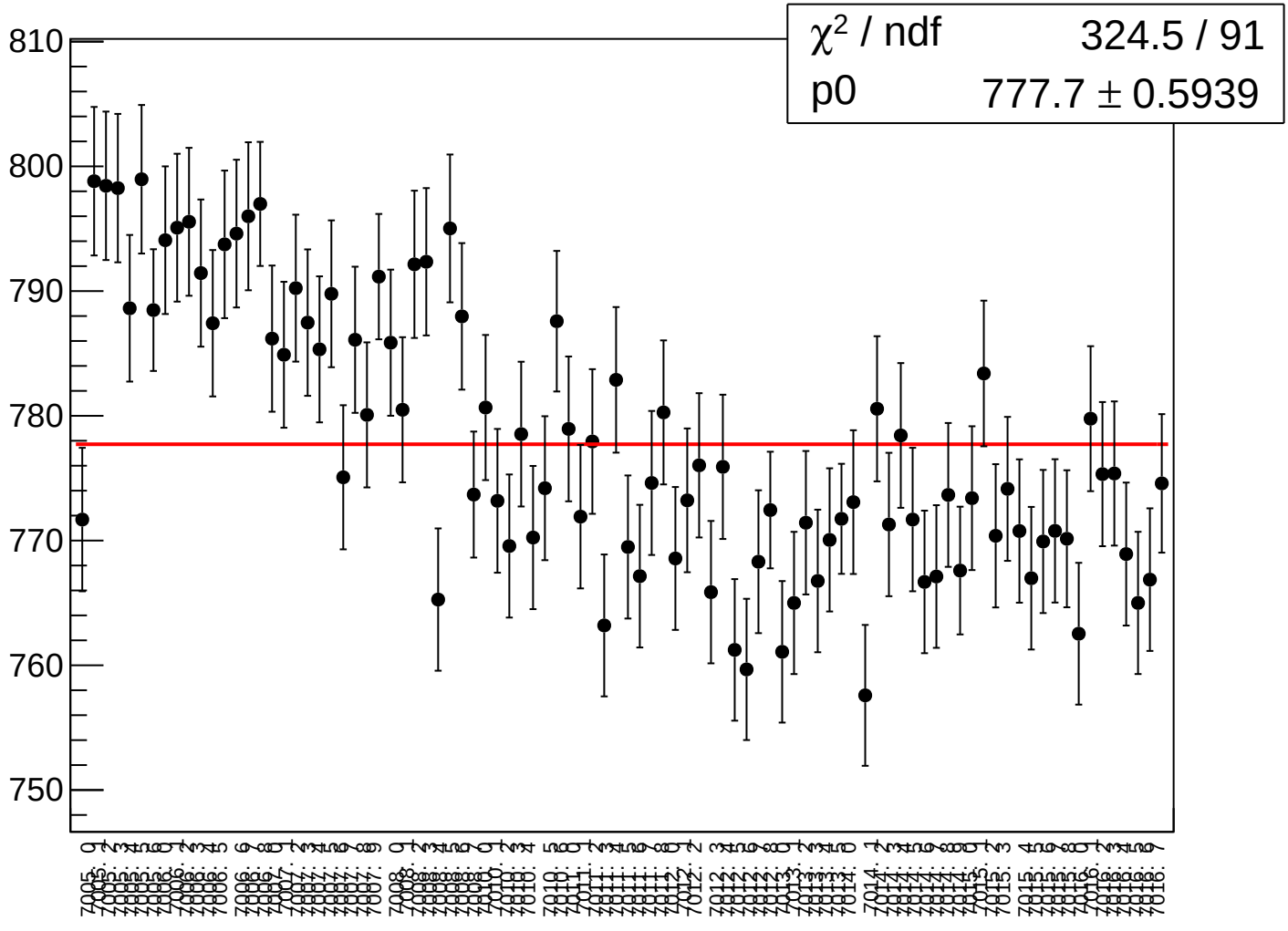

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 76.37 / 91
p0 −769.2 ± 565.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −14.76
Std Dev 48.88
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

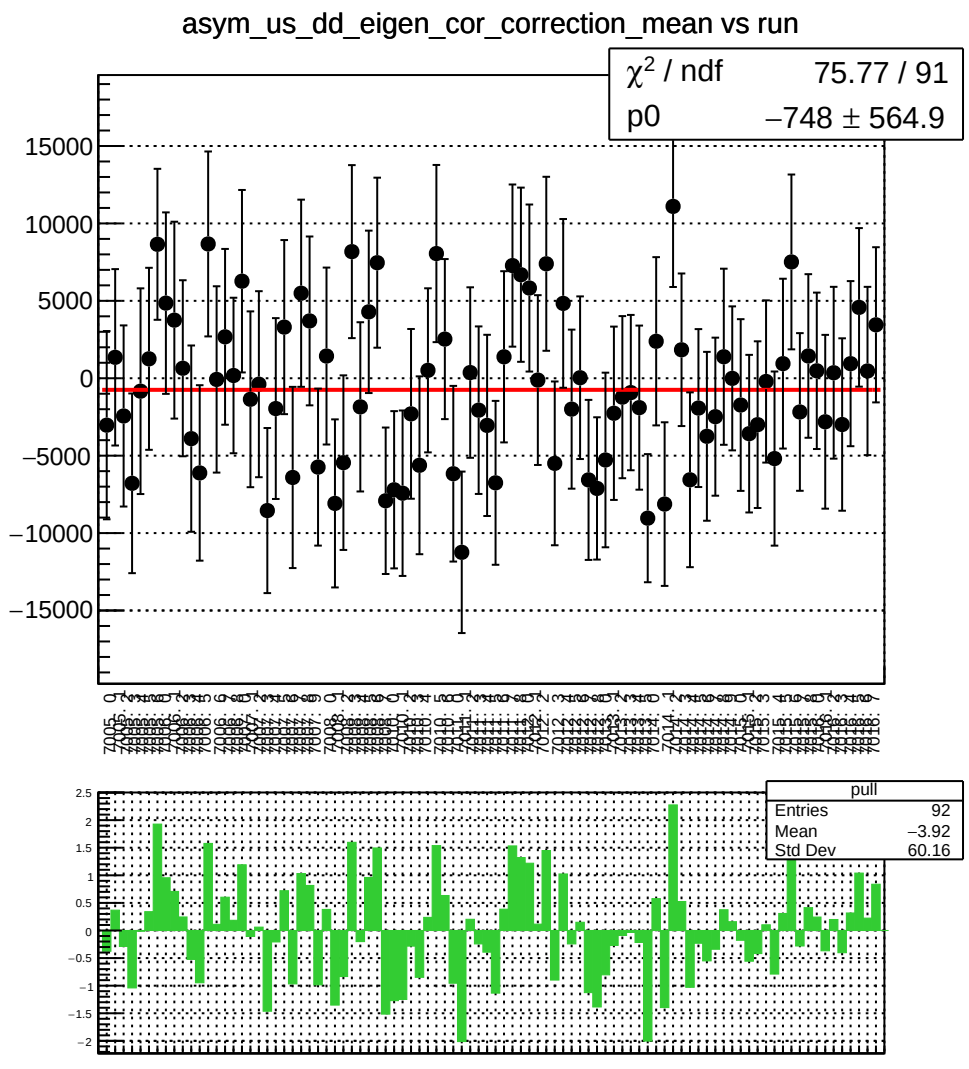

pull1D
Entries 92
Mean 0.0149
Std Dev 0.911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

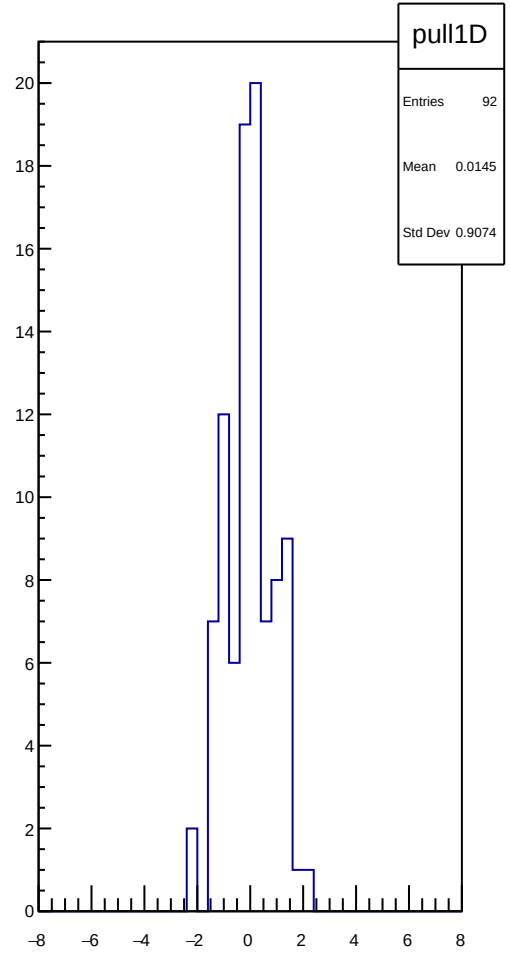

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 5047 / 91
p0 523.2 ± 0.4001
650
600
550
500
450

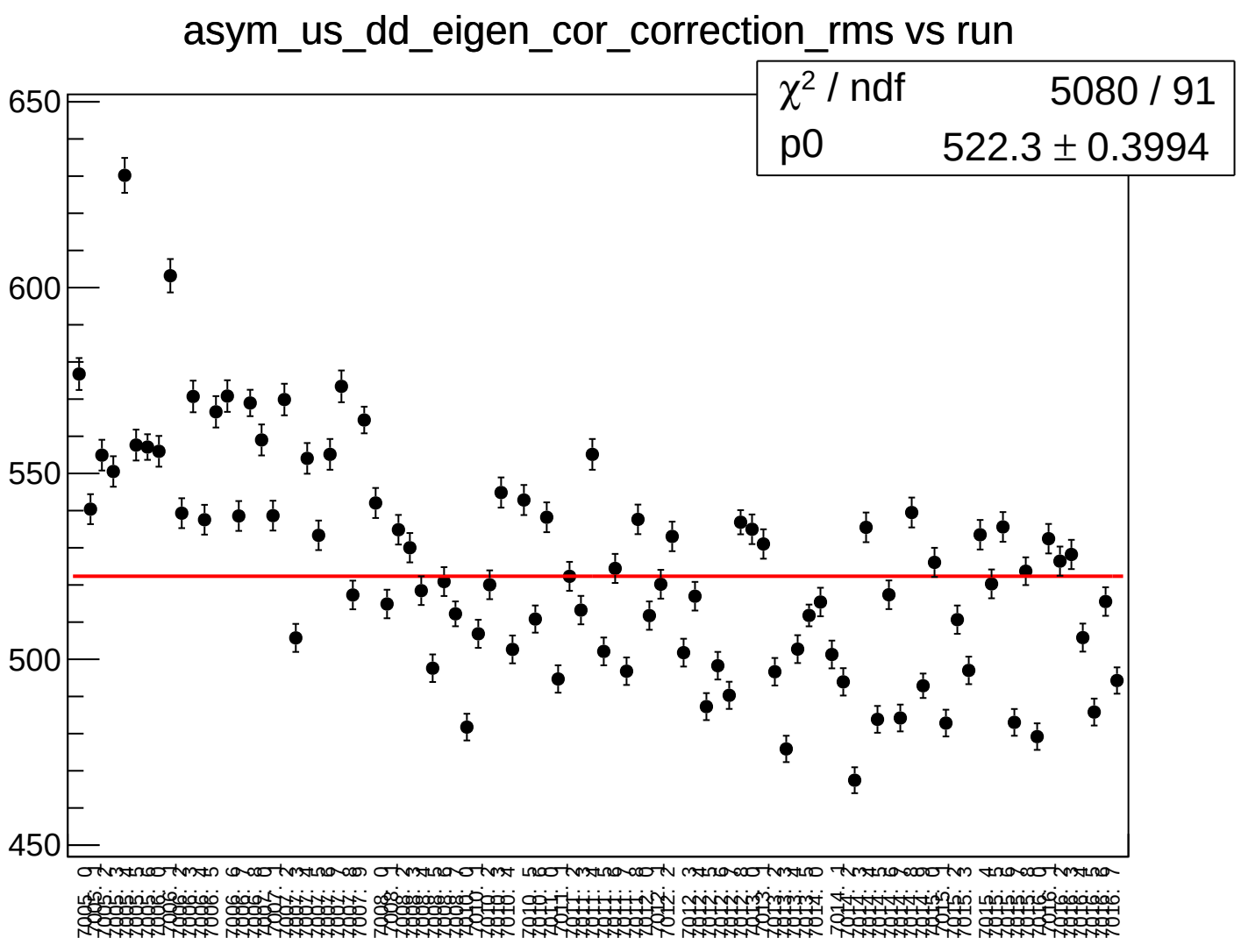

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 92.02 / 91
p0 310 ± 839.9
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −161.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

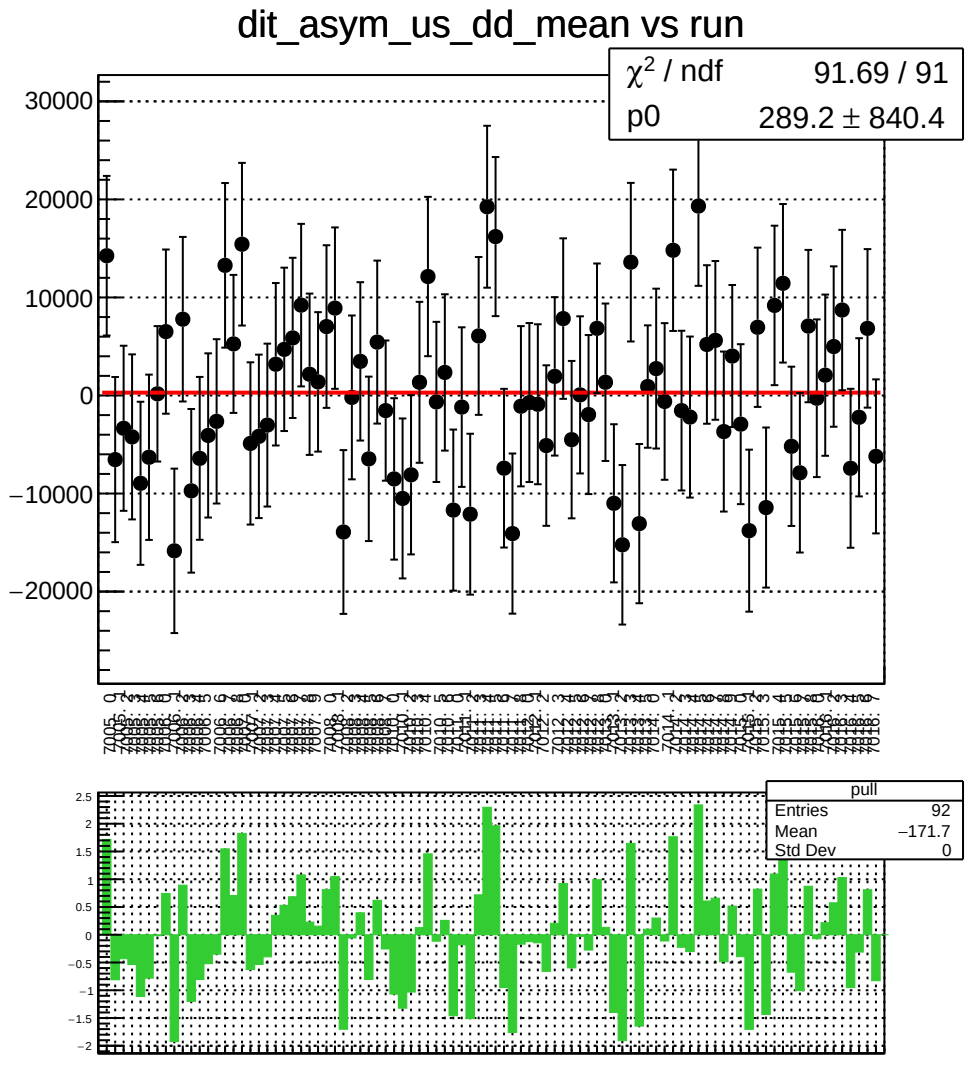

pull1D
Entries 92
Mean −0.006485
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

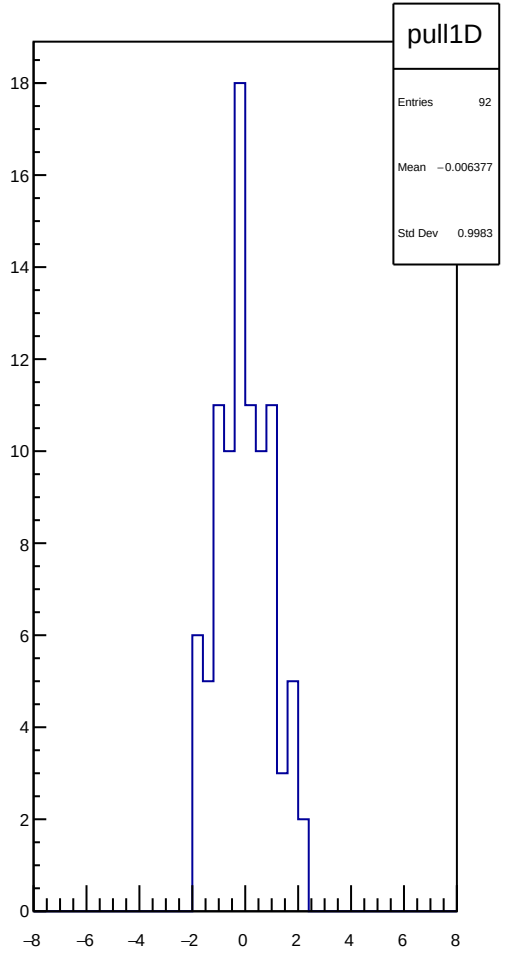

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 324.5 / 91
p0 777.7 ± 0.5939
810
800
790
780
770
760
750

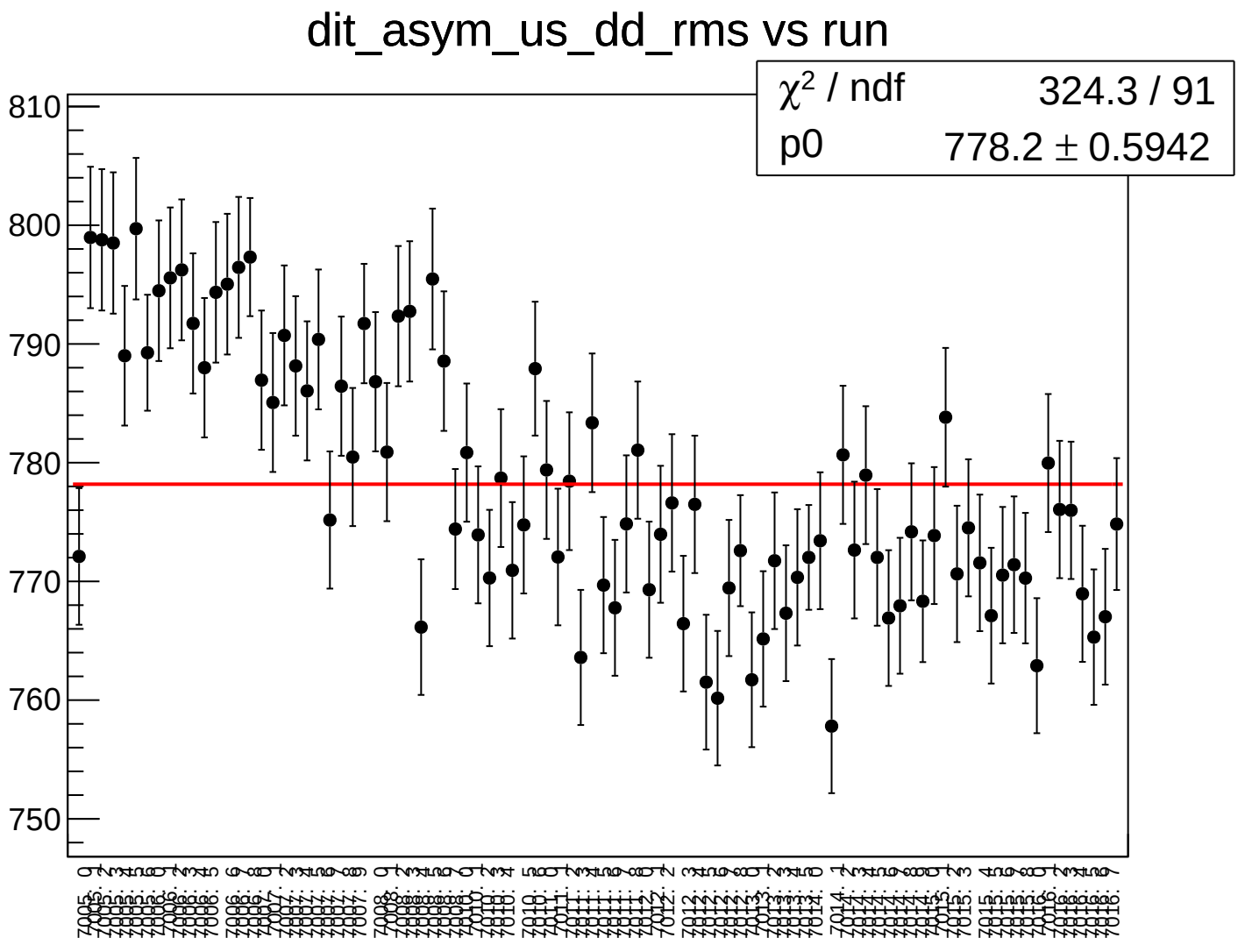

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.77 / 91
p0 −748 ± 564.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −3.92
Std Dev 60.16
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

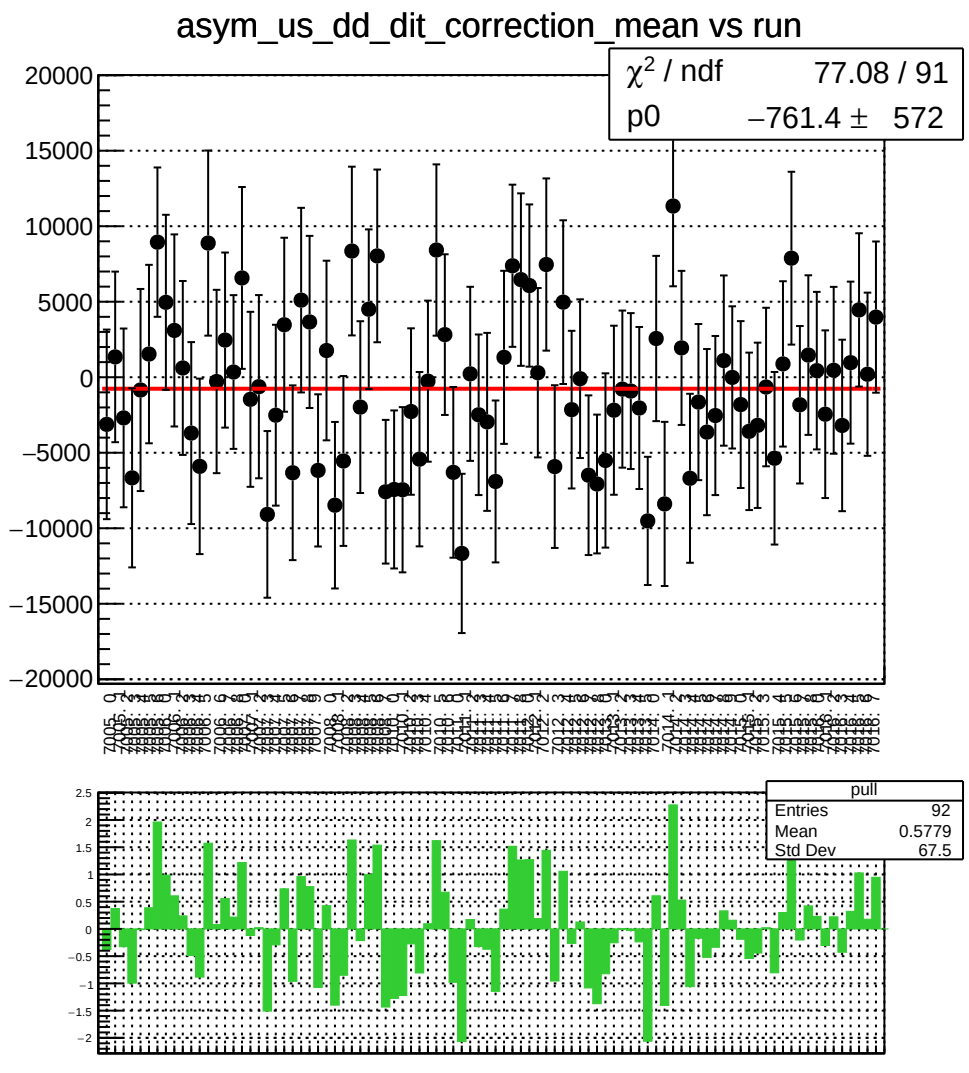

pull1D
Entries 92
Mean 0.0145
Std Dev 0.9074
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

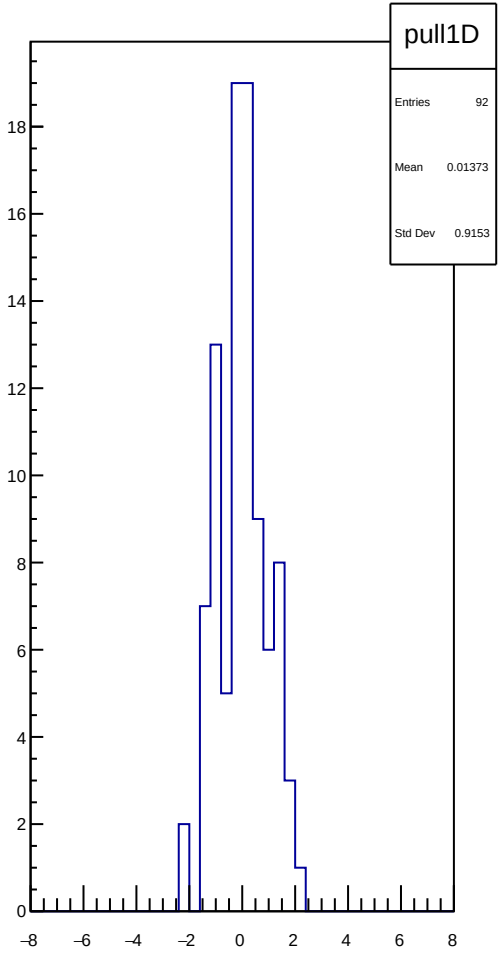

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 5080 / 91
p0 522.3 ± 0.3994
650
600
550
500
450

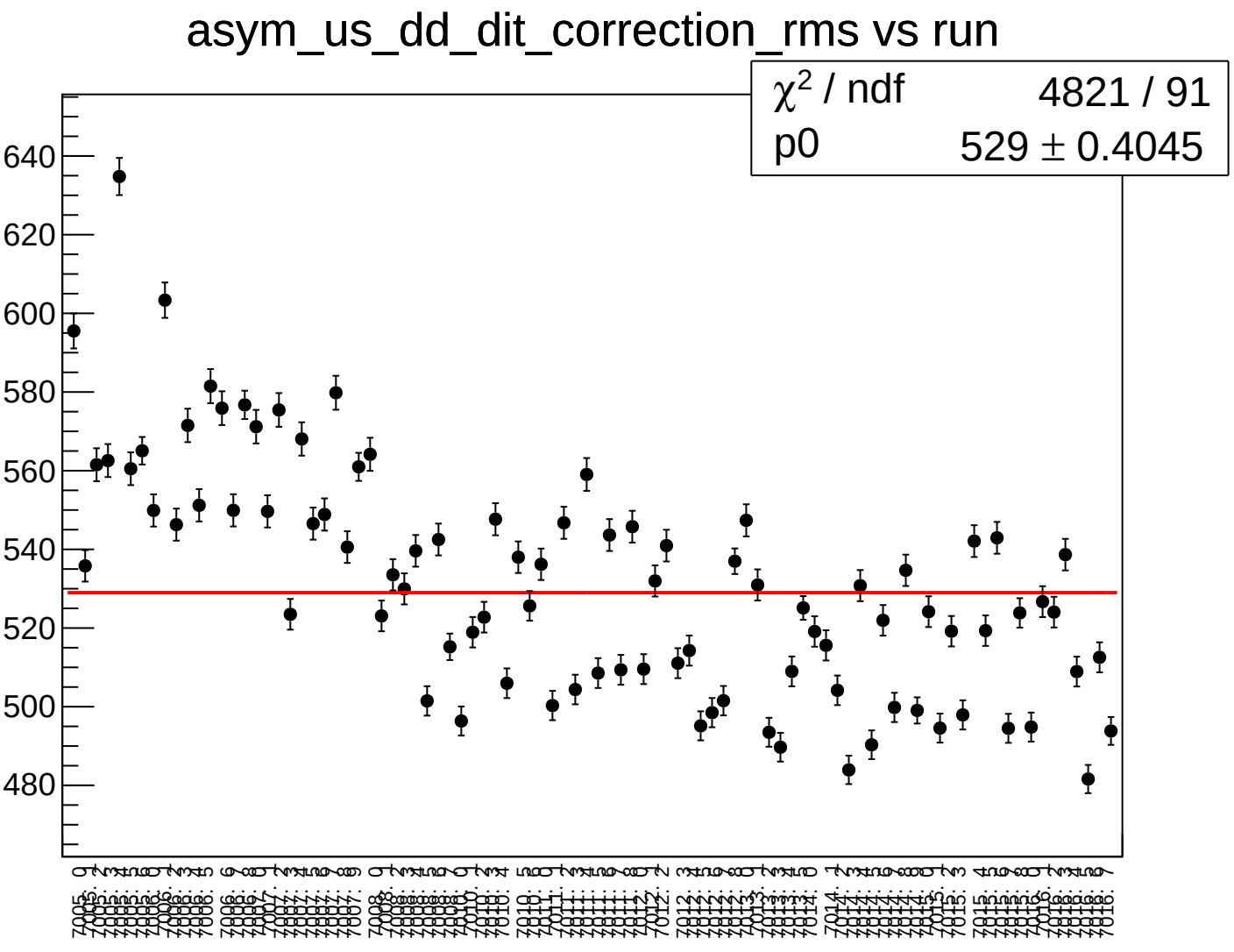

dit_asym_us_dd_mean vs run
χ² / ndf 91.69 / 91
p0 289.2 ± 840.4
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −171.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

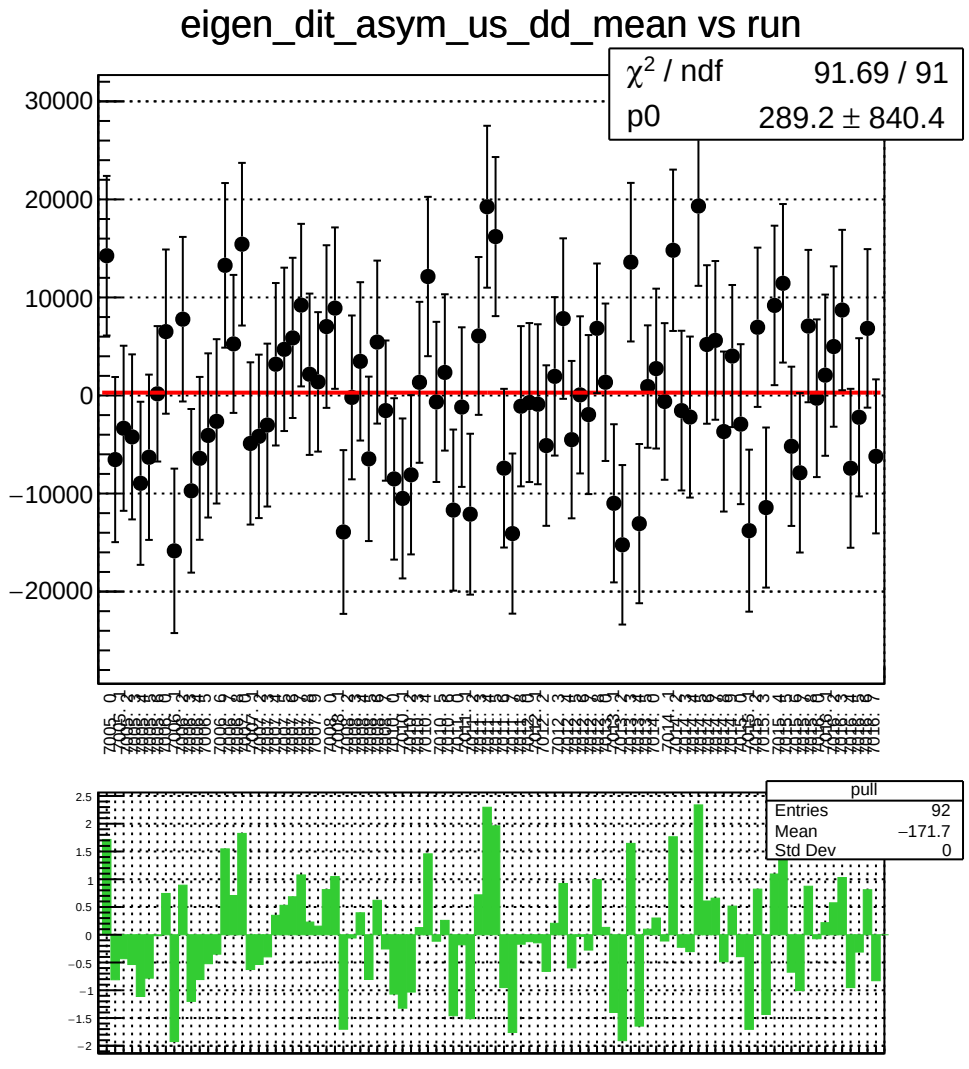

pull1D
Entries 92
Mean −0.006377
Std Dev 0.9983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

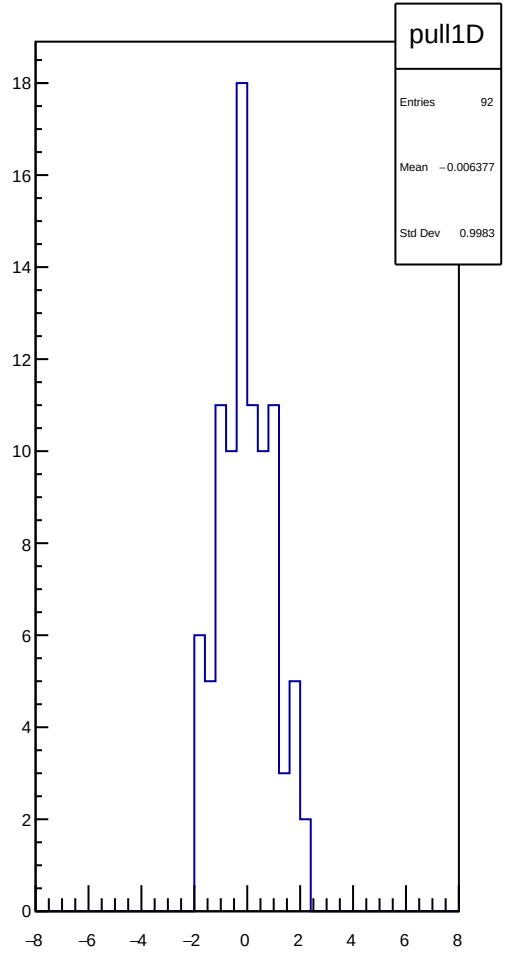

dit_asym_us_dd_rms vs run
χ² / ndf 324.3 / 91
p0 778.2 ± 0.5942
810
800
790
780
770
760
750

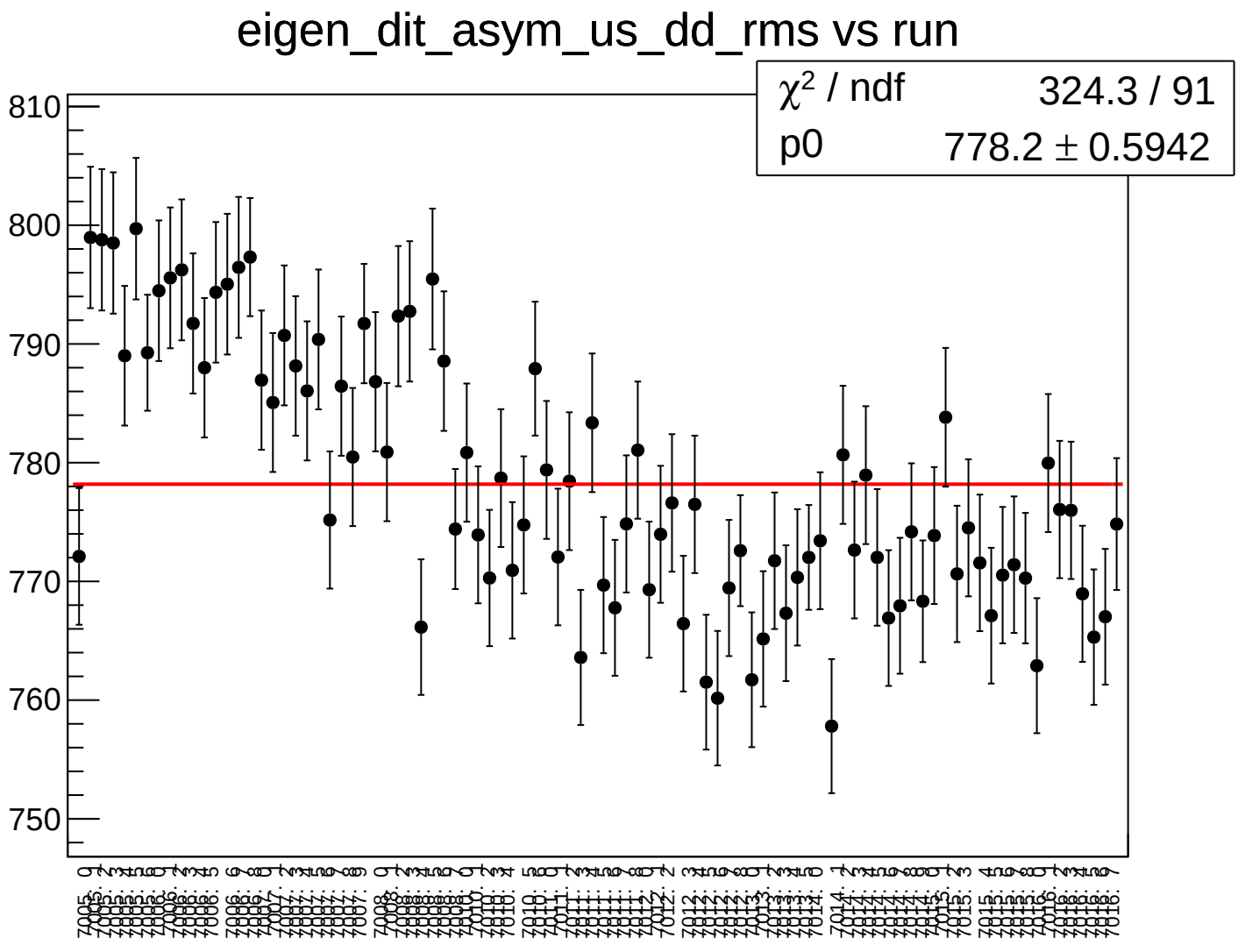

asym_us_dd_dit_correction_mean vs run
χ² / ndf 77.08 / 91
p0 −761.4 ± 572
pull
Entries 92
Mean 0.5779
Std Dev 67.5

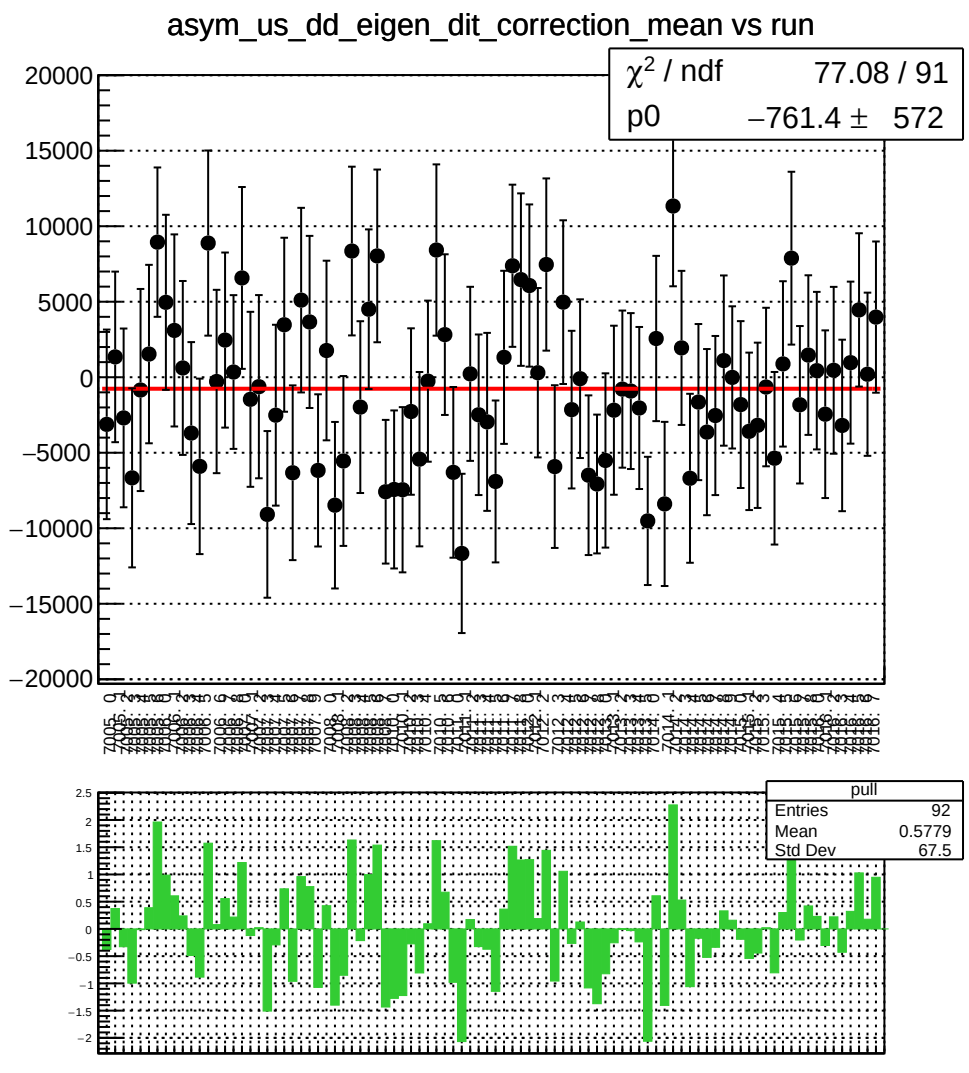

pull1D
Entries 92
Mean 0.01373
Std Dev 0.9153

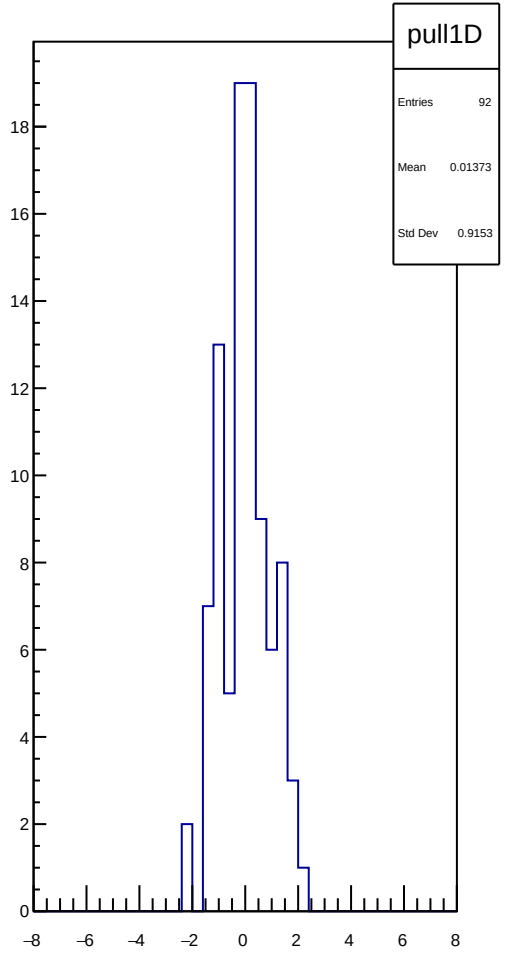

asym_us_dd_dit_correction_rms vs run
χ² / ndf 4821 / 91
p0 529 ± 0.4045
640
620
600
580
560
540
520
500
480

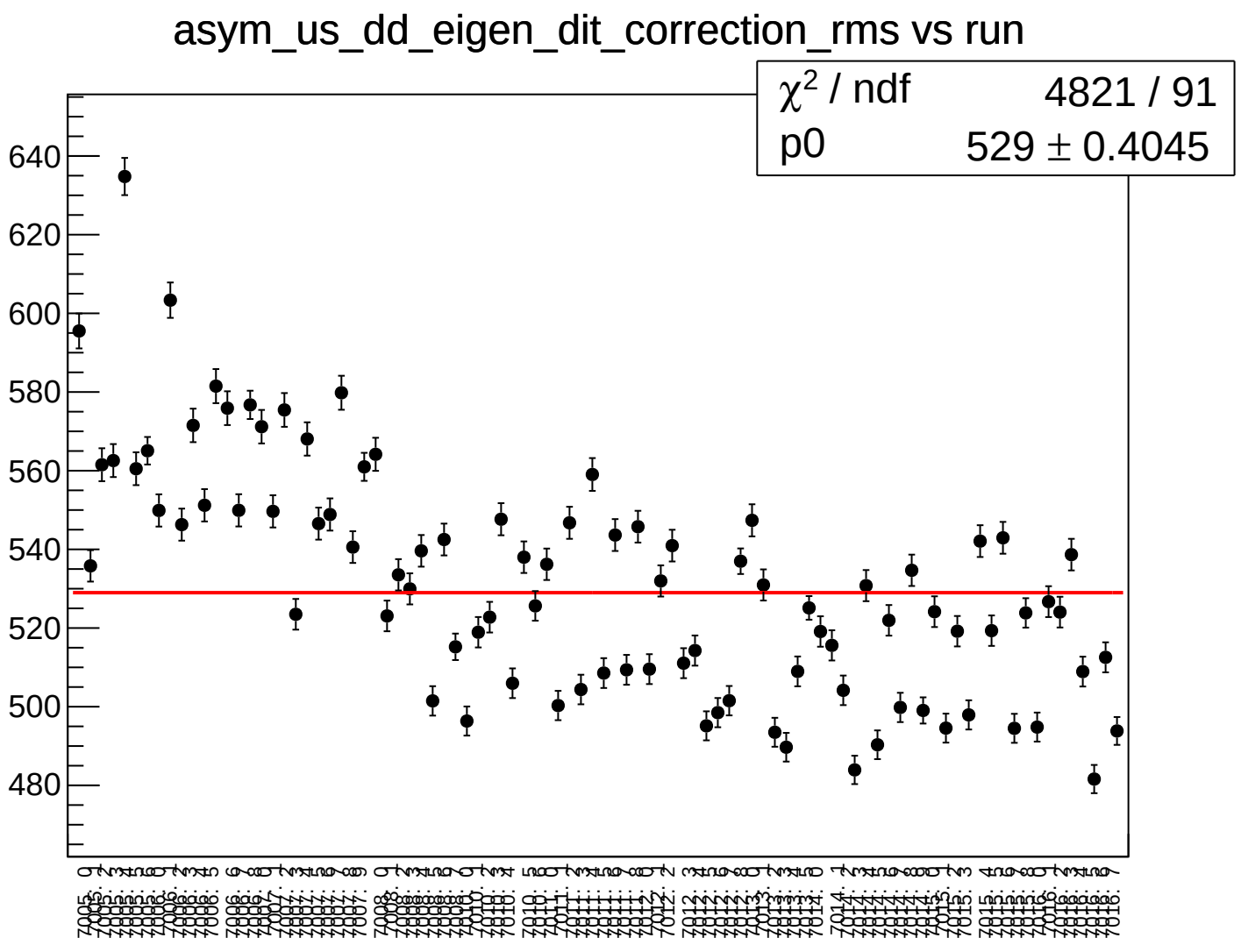

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 91.69 / 91
p0 289.2 ± 840.4
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −171.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

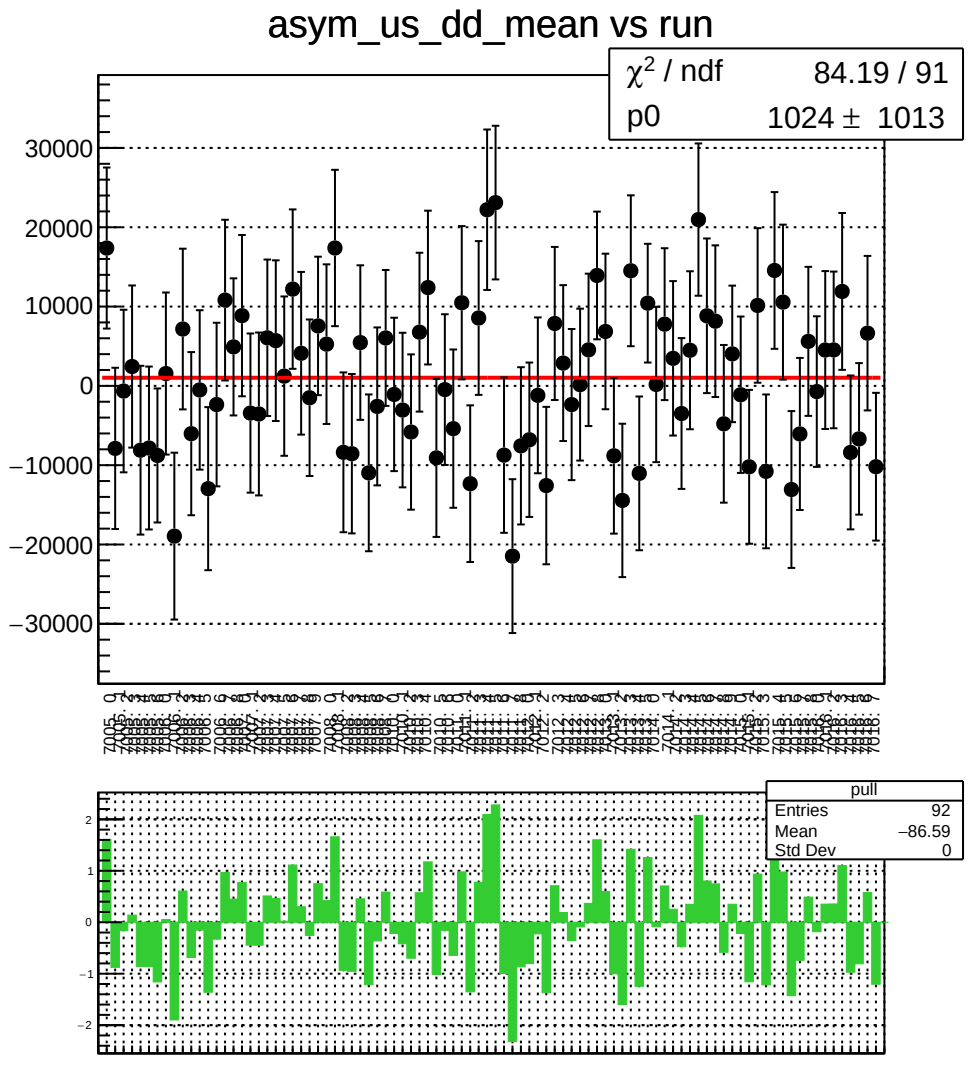

pull1D
Entries 92
Mean −0.006377
Std Dev 0.9983
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

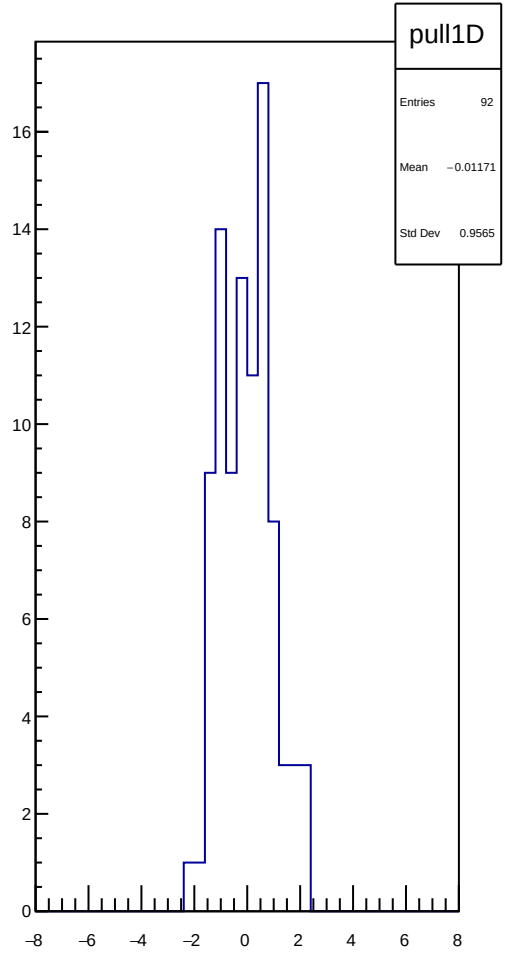

eigen_dit_asym_us_dd_rms vs run
$\chi^2$ / ndf 324.3 / 91
p0 778.2 ± 0.5942
810
800
790
780
770
760
750

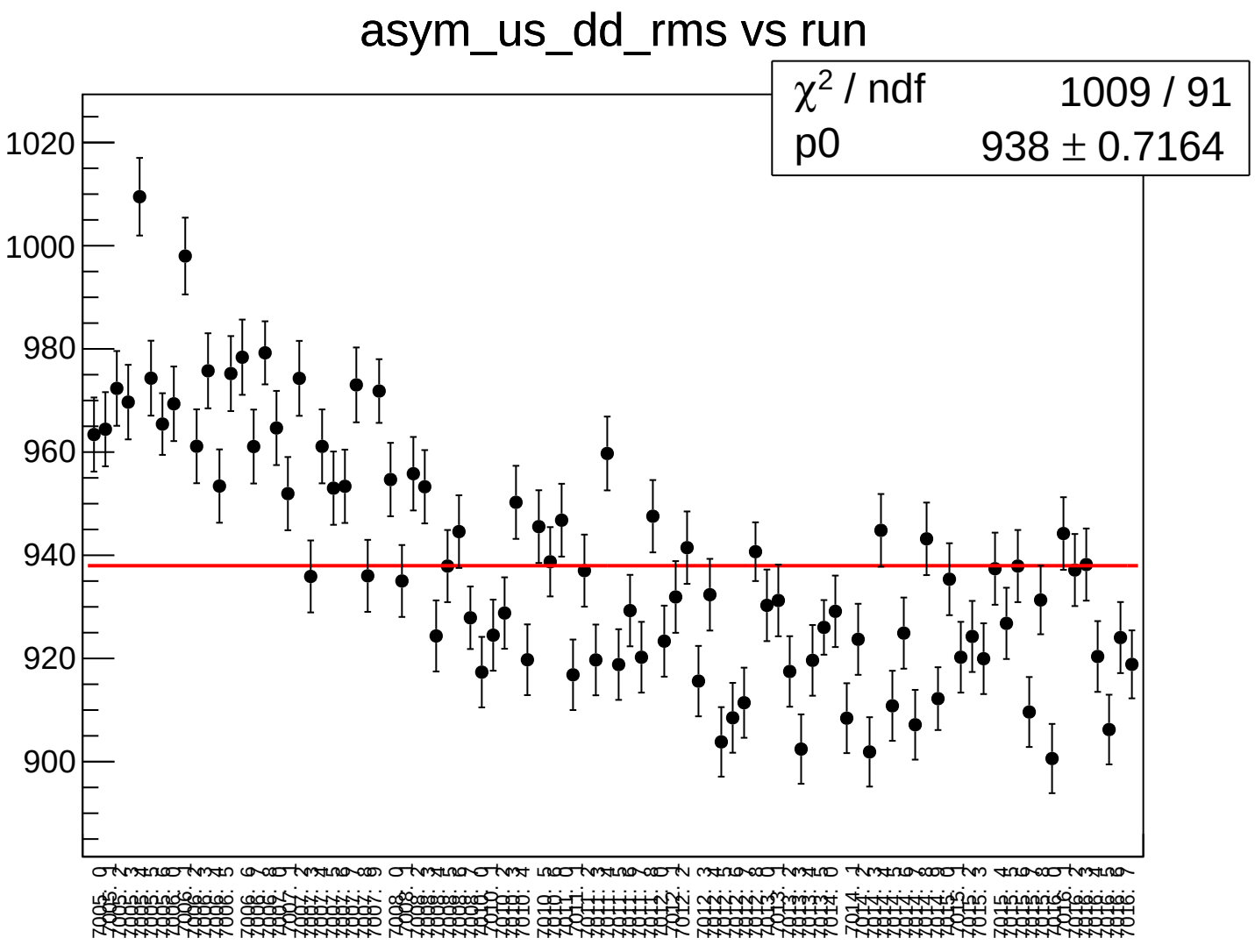

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.08 / 91
p0 −761.4 ± 572
pull
Entries 92
Mean 0.5779
Std Dev 67.5

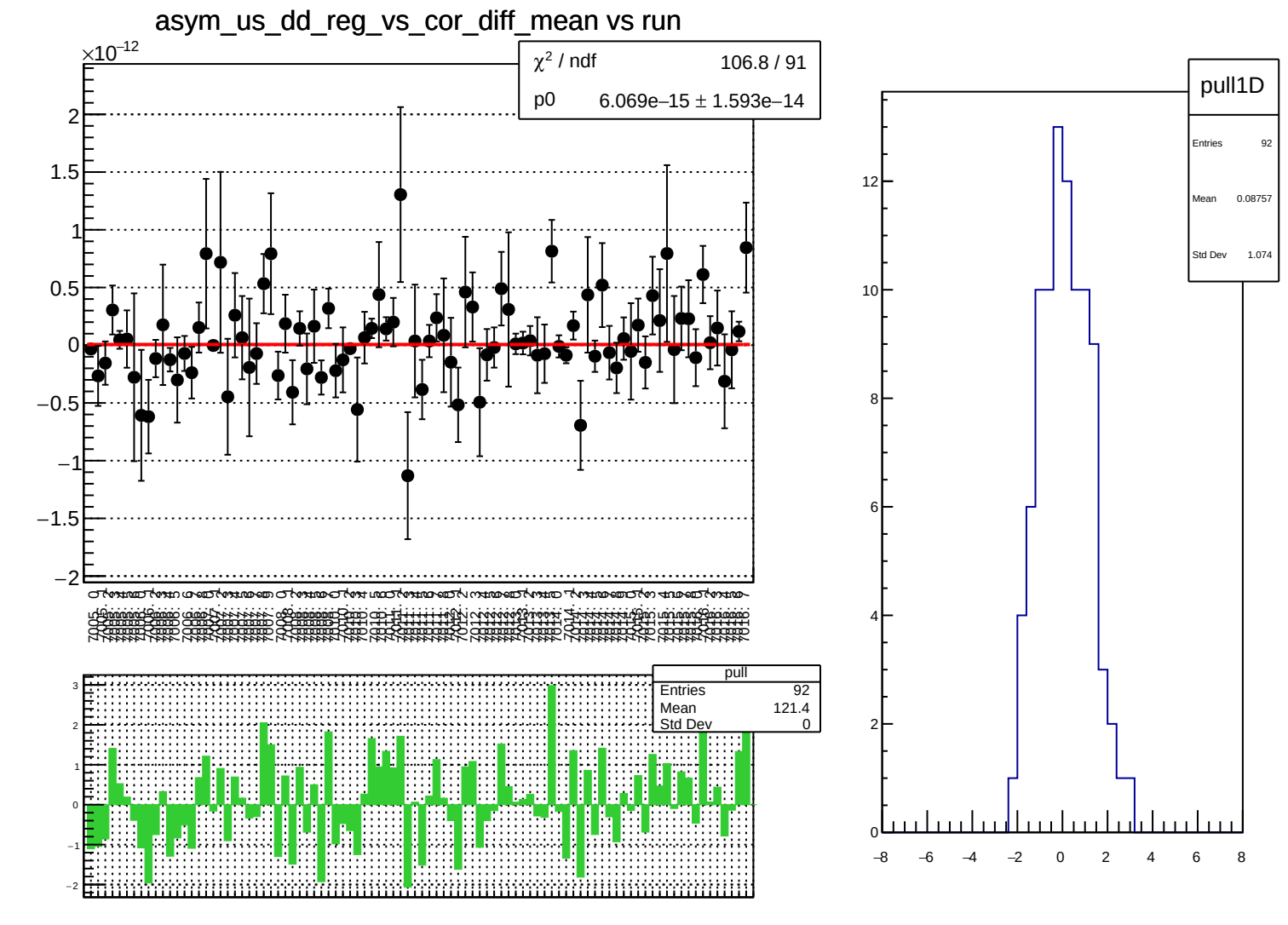

pull1D
Entries 92
Mean 0.01373
Std Dev 0.9153

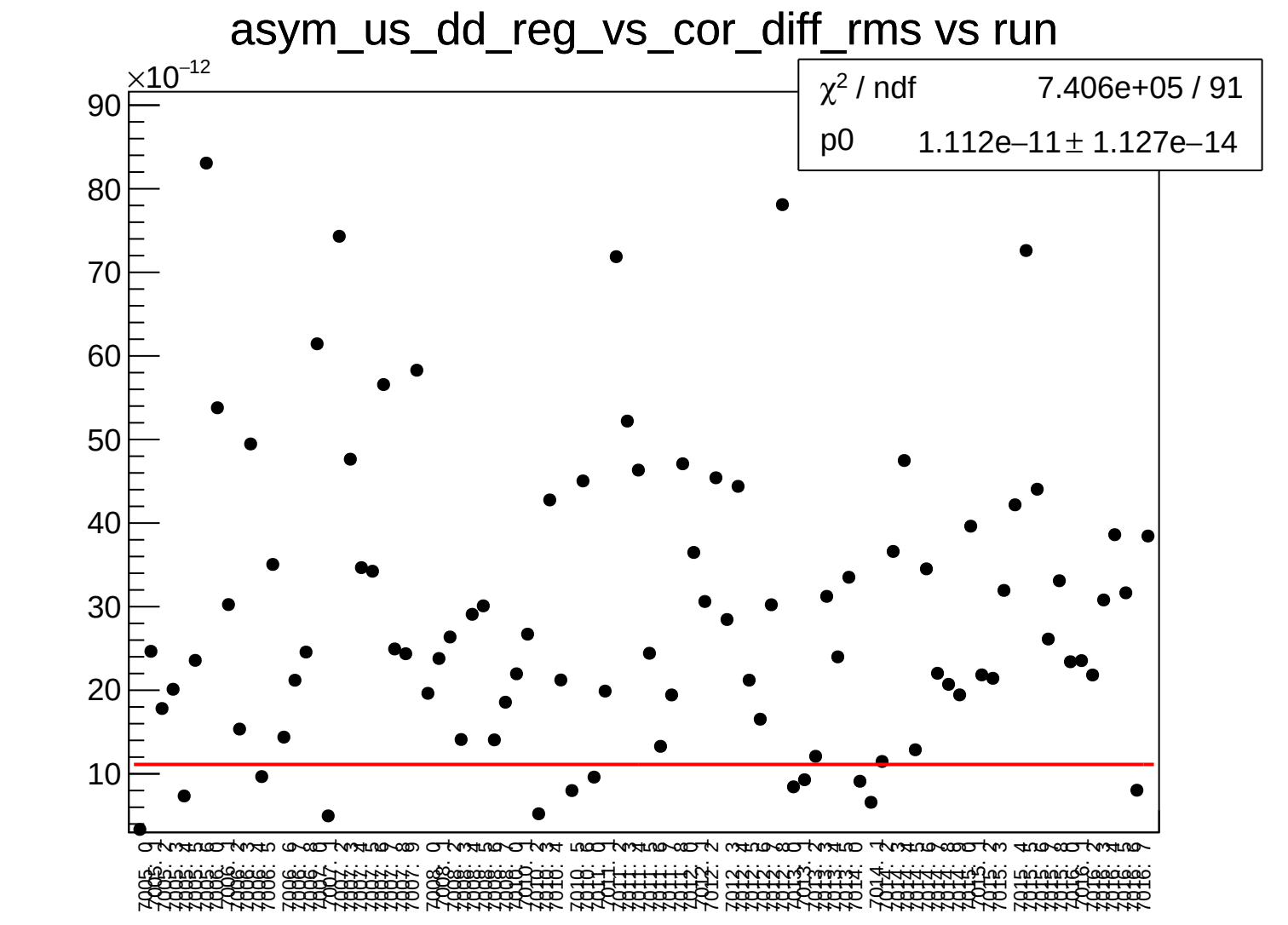

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 4821 / 91
p0 529 ± 0.4045
640
620
600
580
560
540
520
500
480

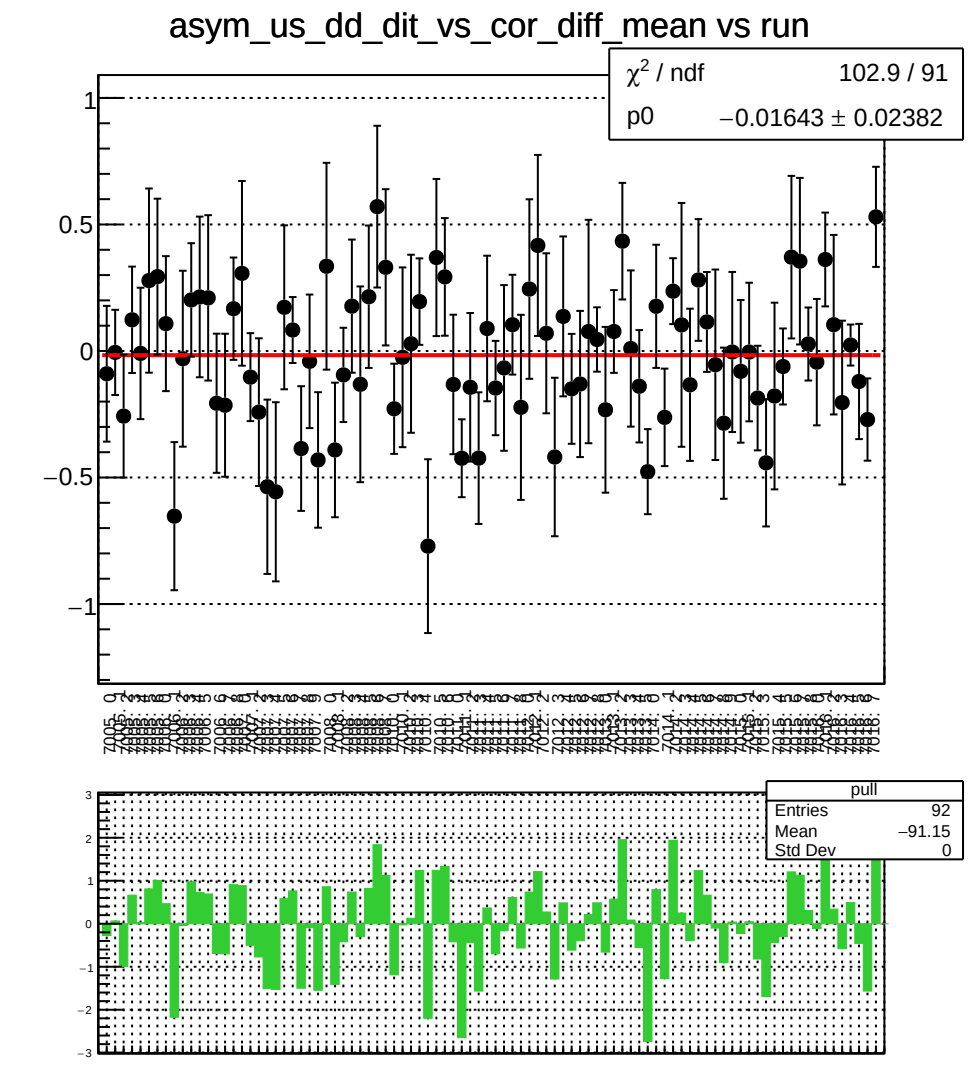

asym_us_dd_mean vs run
χ² / ndf 84.19 / 91
p0 1024 ± 1013
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −86.59
Std Dev 0
2
1
0
−1
−2

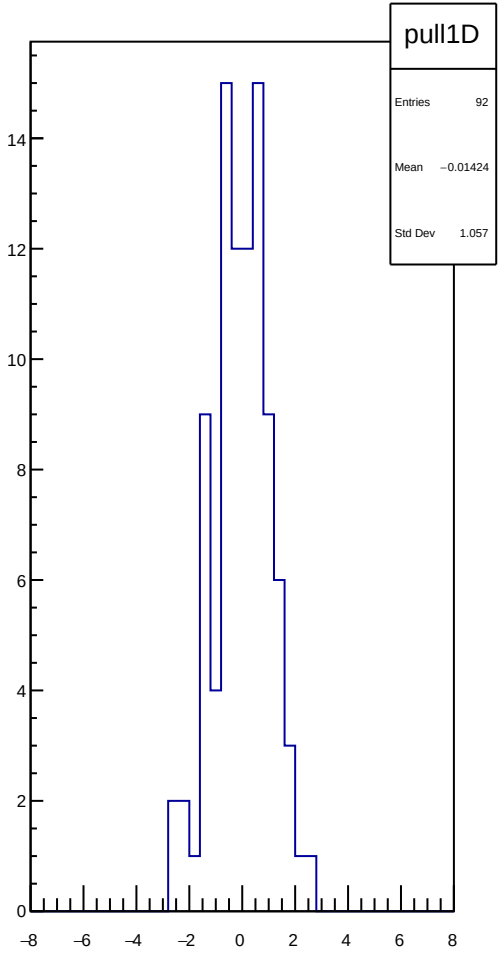

pull1D
Entries 92
Mean −0.01171
Std Dev 0.9565
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

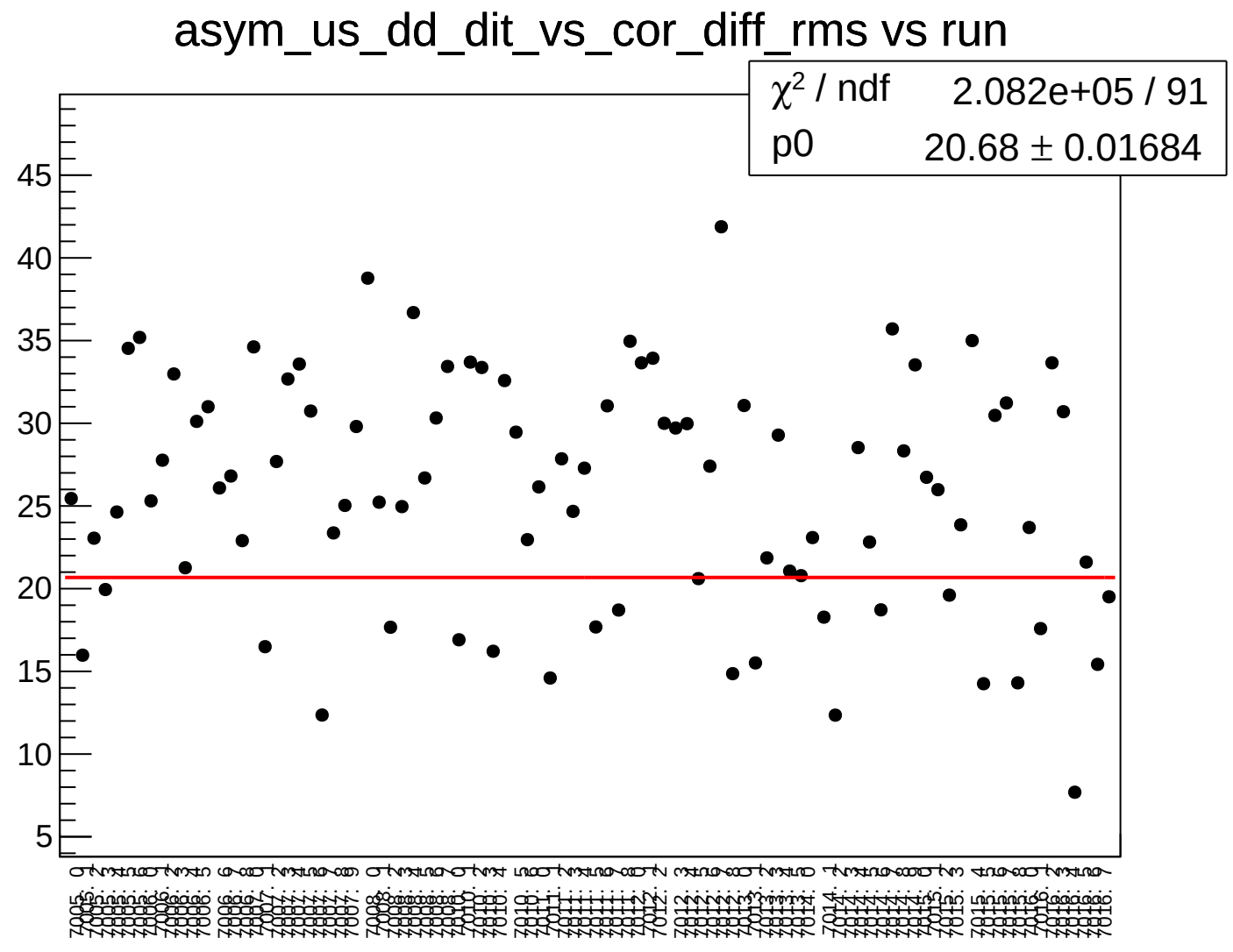

asym_us_dd_rms vs run
$\chi^2$ / ndf 1009 / 91
p0 938 ± 0.7164
1020
1000
980
960
940
920
900

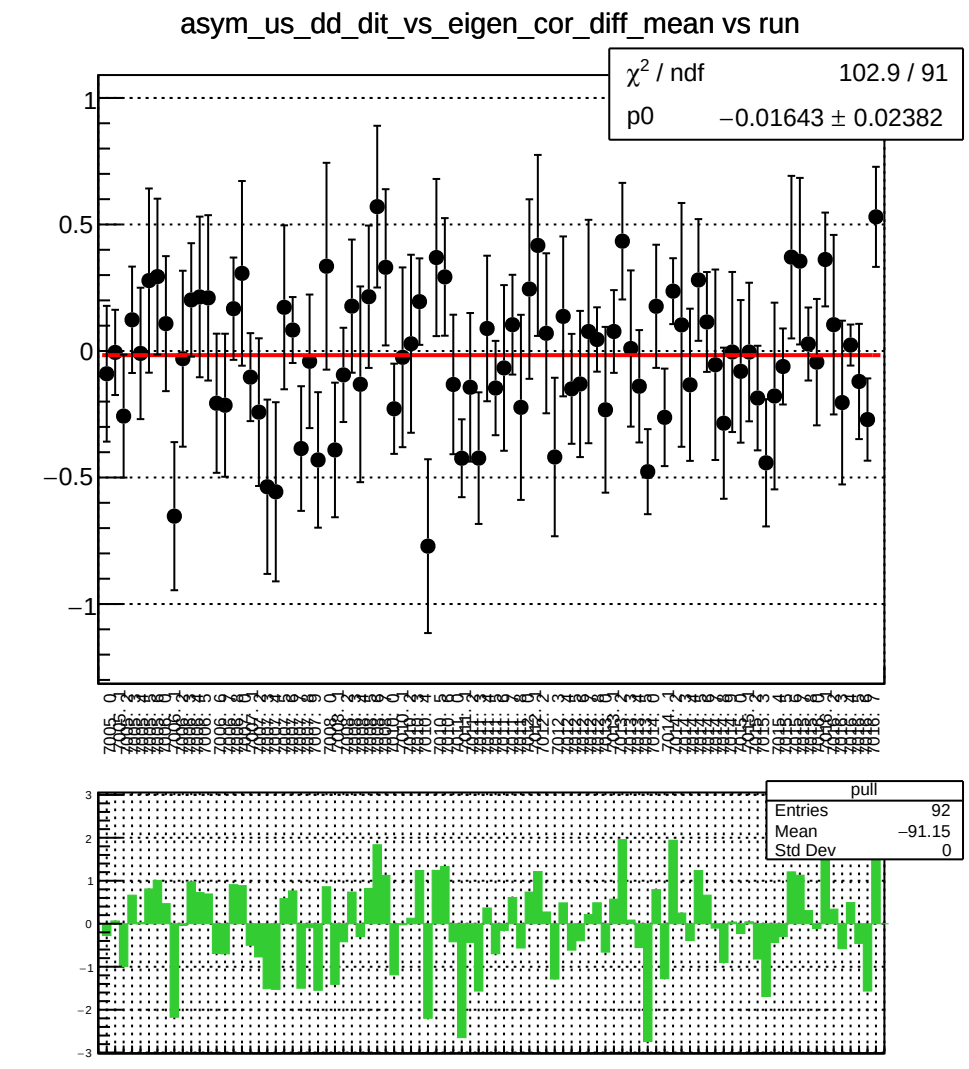

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.8 / 91
p0 6.069e−15 ± 1.593e−14
pull
Entries 92
Mean 121.4
Std Dev 0
pull1D
Entries 92
Mean 0.08757
Std Dev 1.074

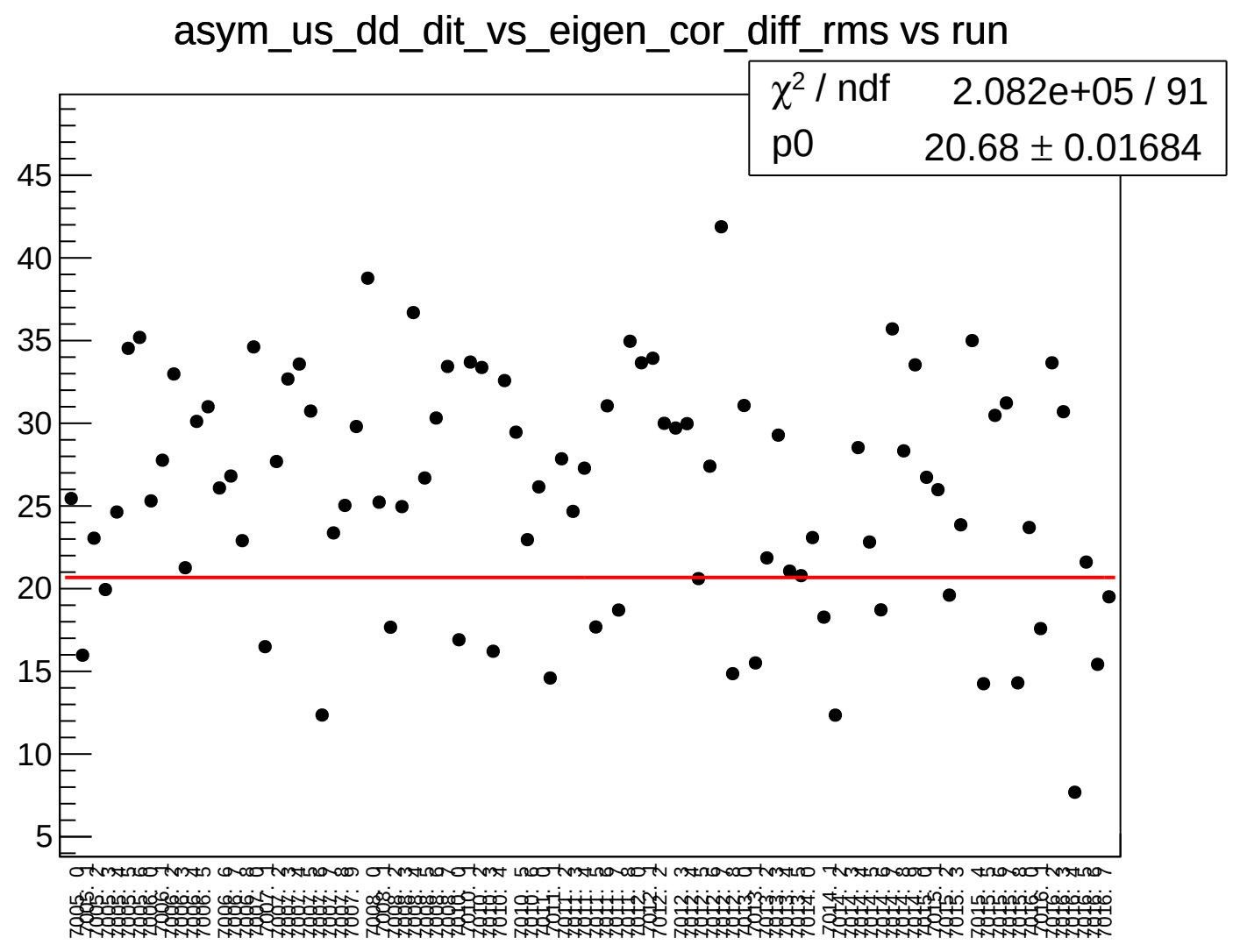

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.406e+05 / 91
p0 1.112e−11 ± 1.127e−14
90
80
70
60
50
40
30
20
10

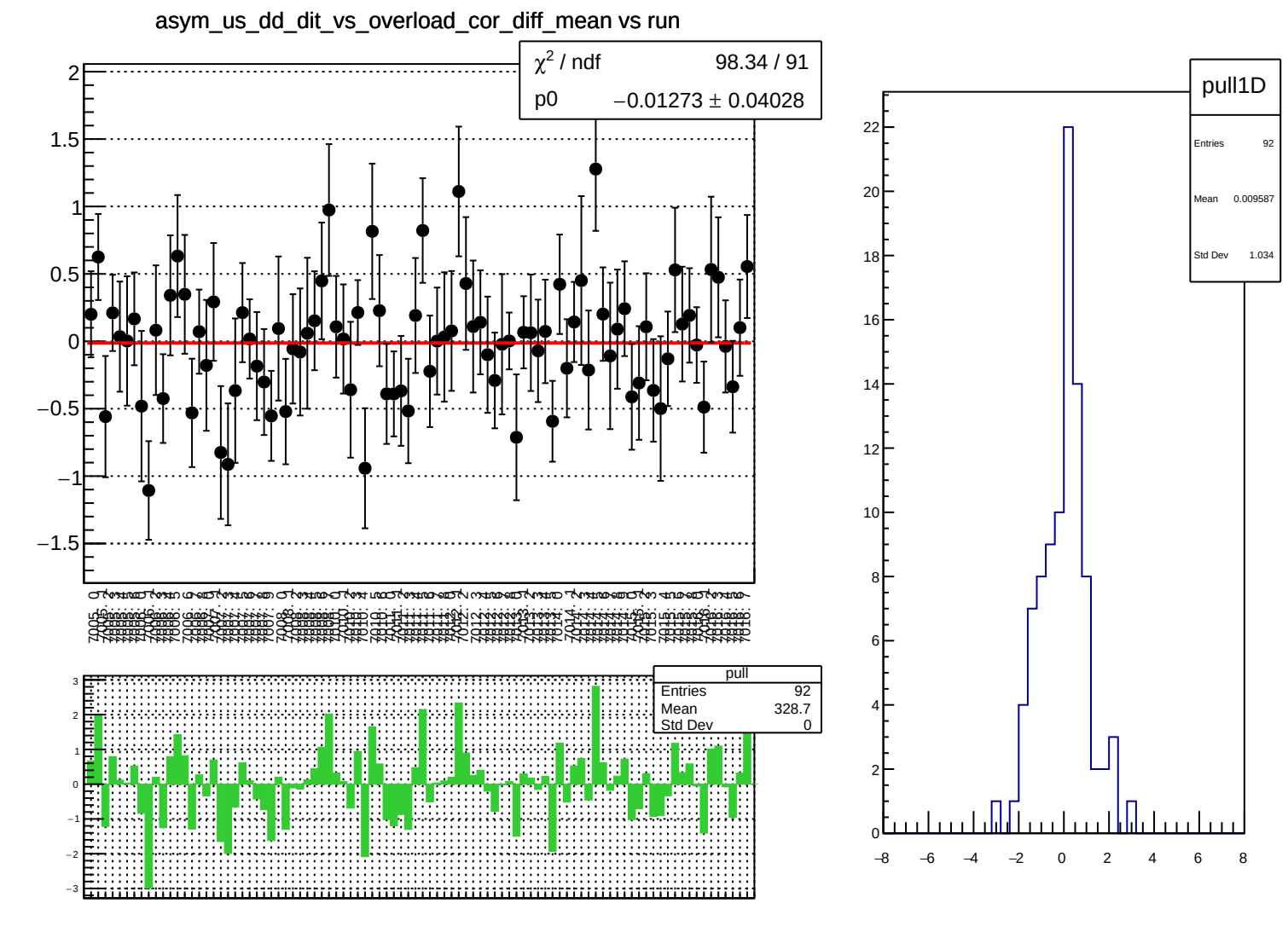

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 91
p0 −0.01643 ± 0.02382
pull
Entries 92
Mean −91.15
Std Dev 0

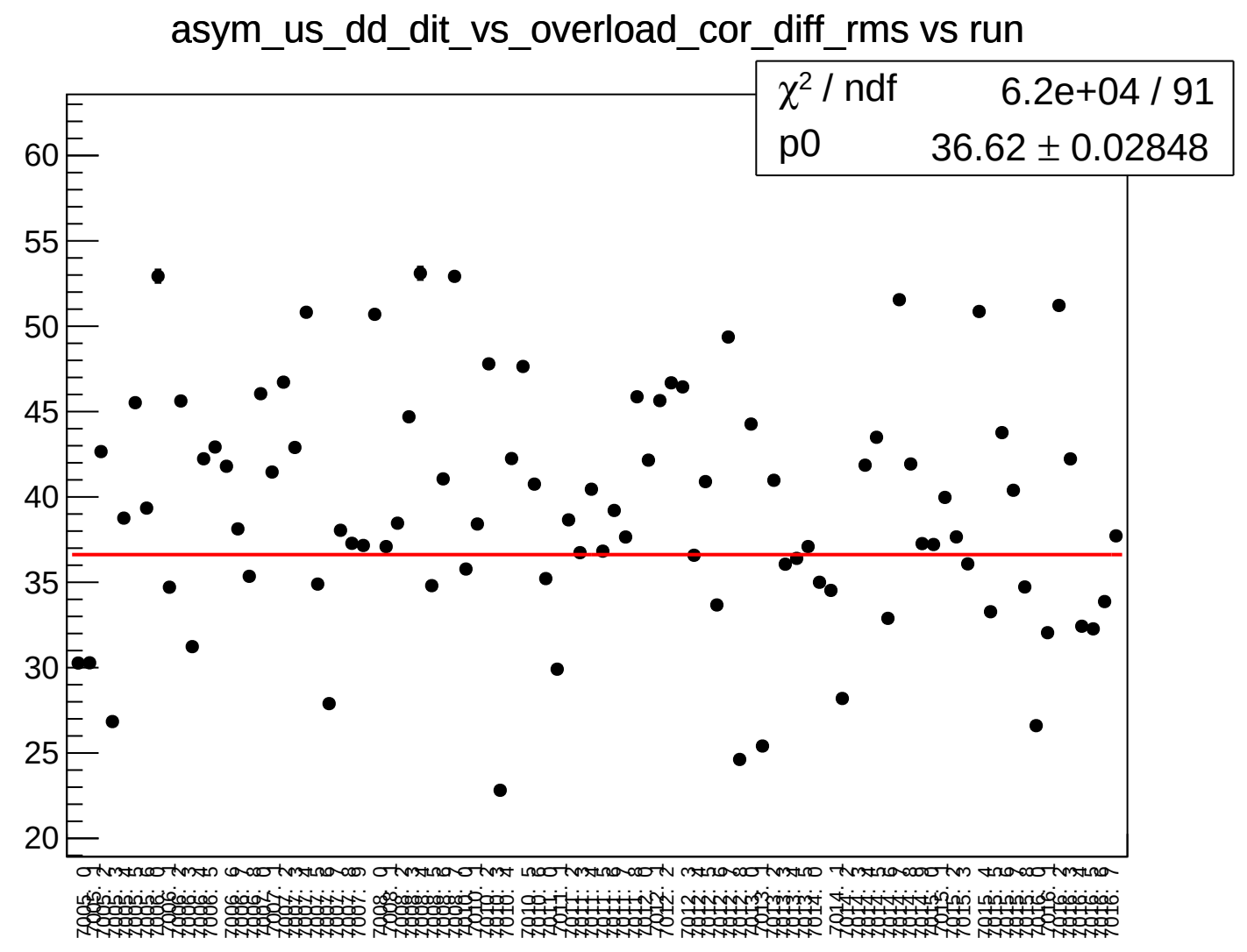

pull1D
Entries 92
Mean −0.01424
Std Dev 1.057

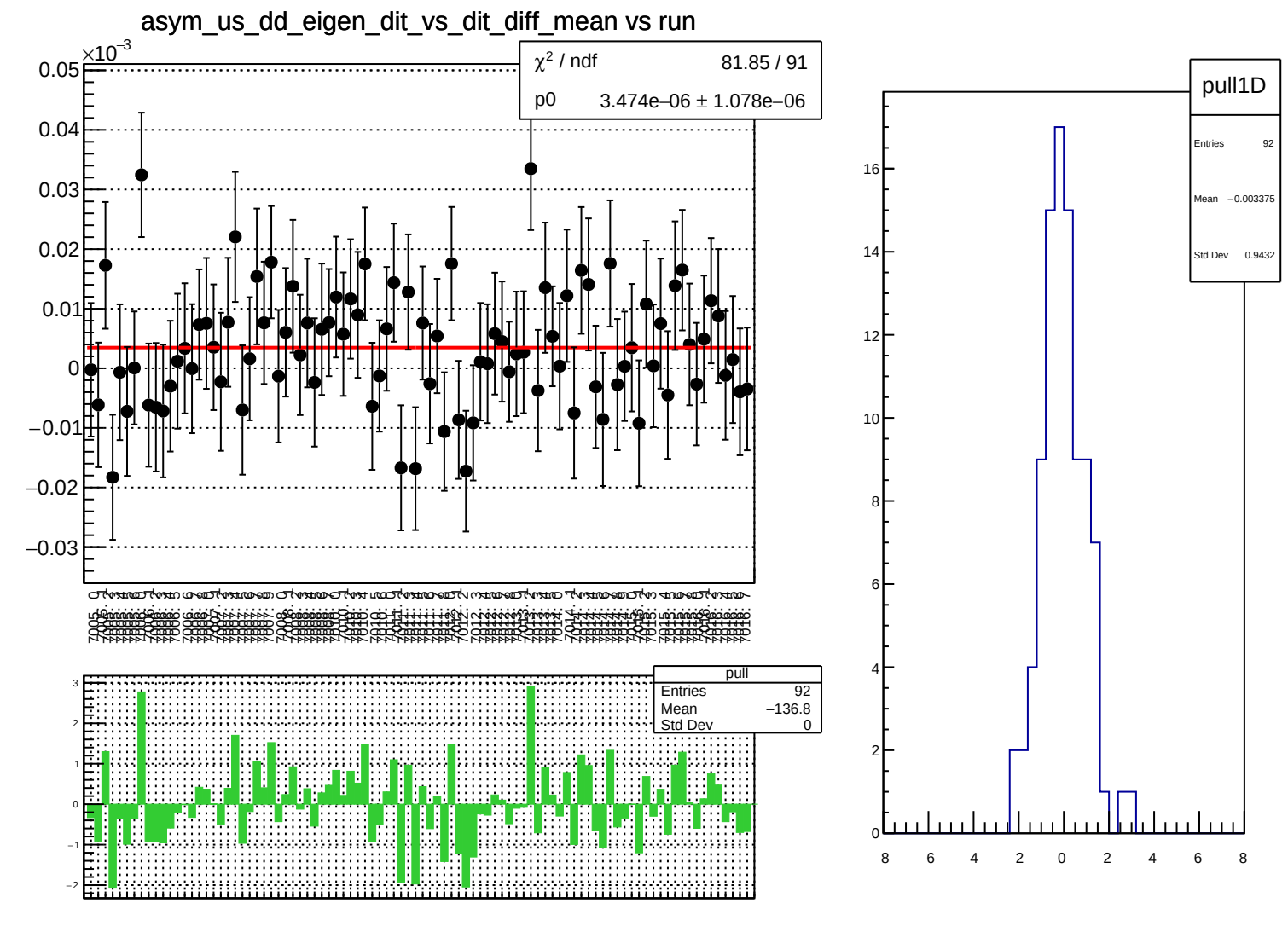

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 91
p0 20.68 ± 0.01684
45
40
35
30
25
20
15
10
5

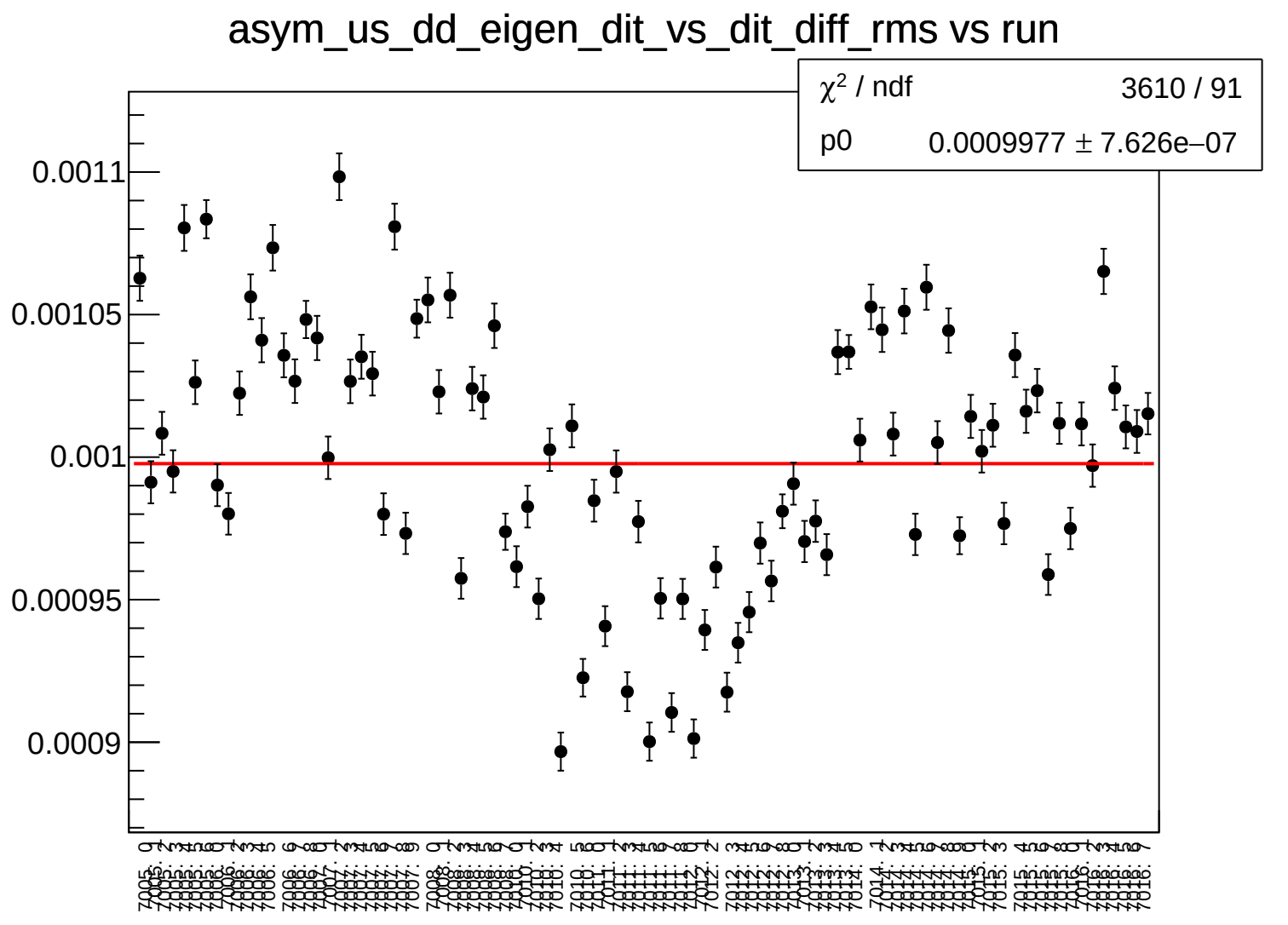

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.9 / 91
p0 −0.01643 ± 0.02382
pull
Entries 92
Mean −91.15
Std Dev 0
pull1D
Entries 92
Mean −0.01424
Std Dev 1.057

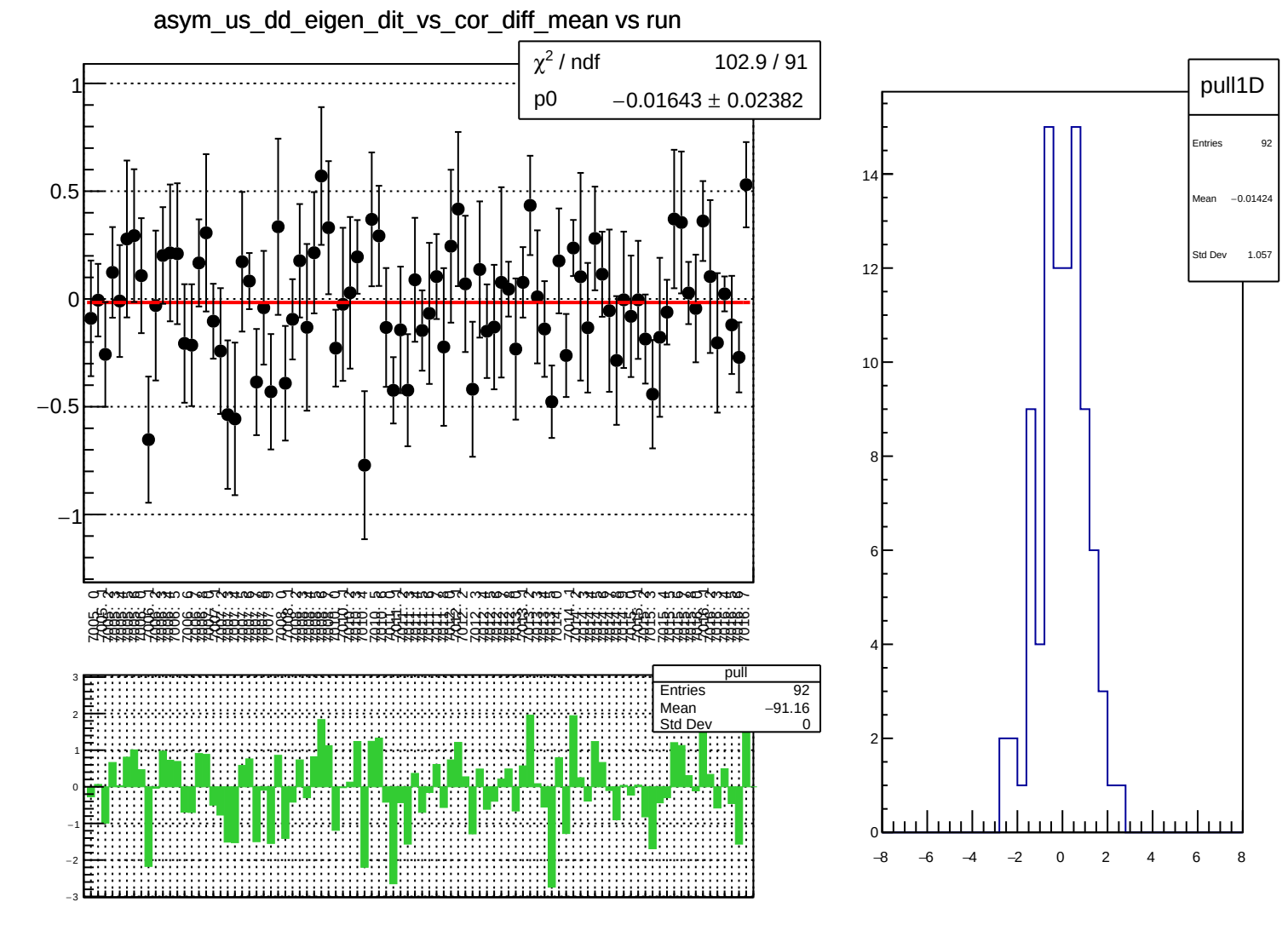

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 91
p0 20.68 ± 0.01684
45
40
35
30
25
20
15
10
5

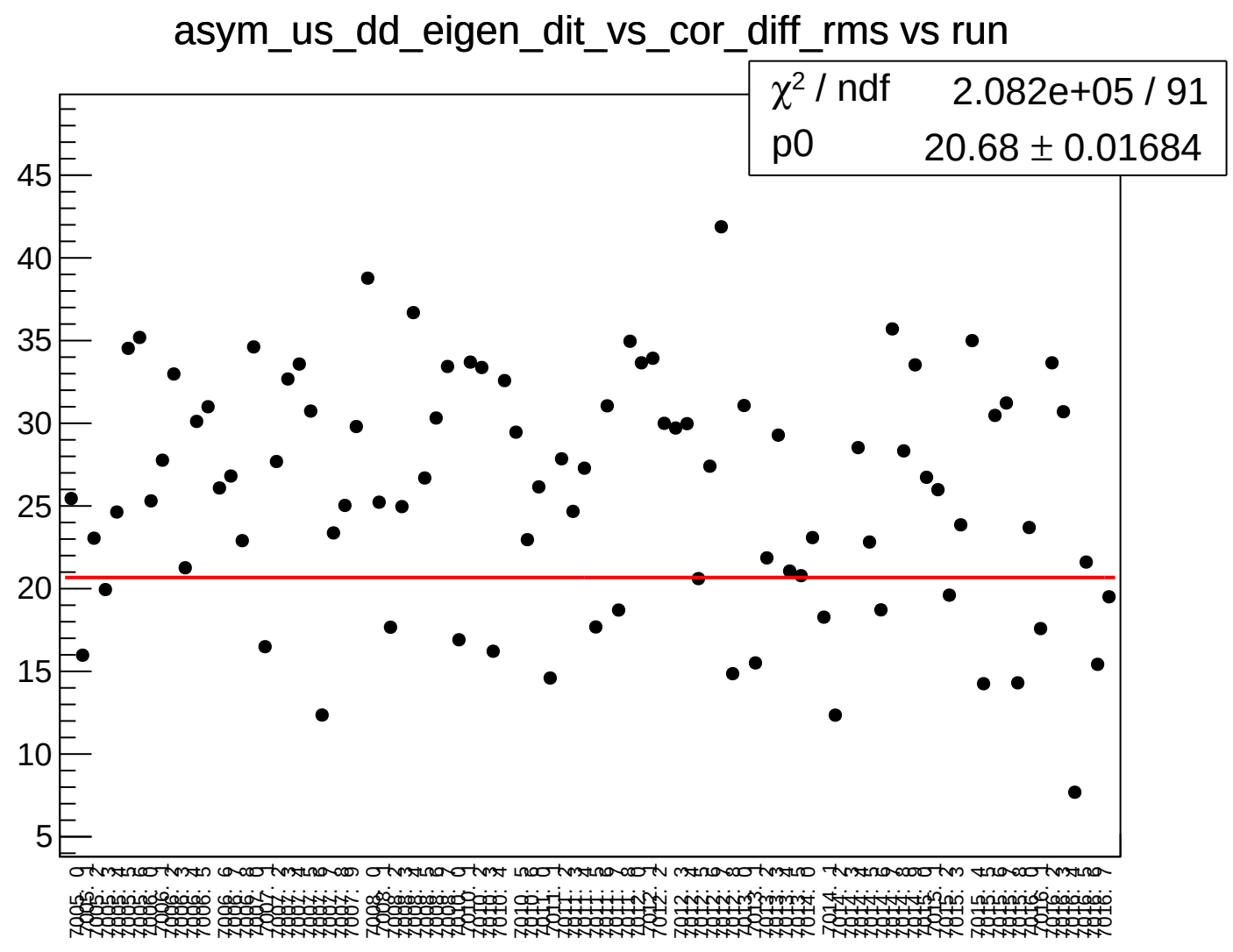

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.34 / 91
p0 −0.01273 ± 0.04028
pull
Entries 92
Mean 328.7
Std Dev 0
pull1D
Entries 92
Mean 0.009587
Std Dev 1.034

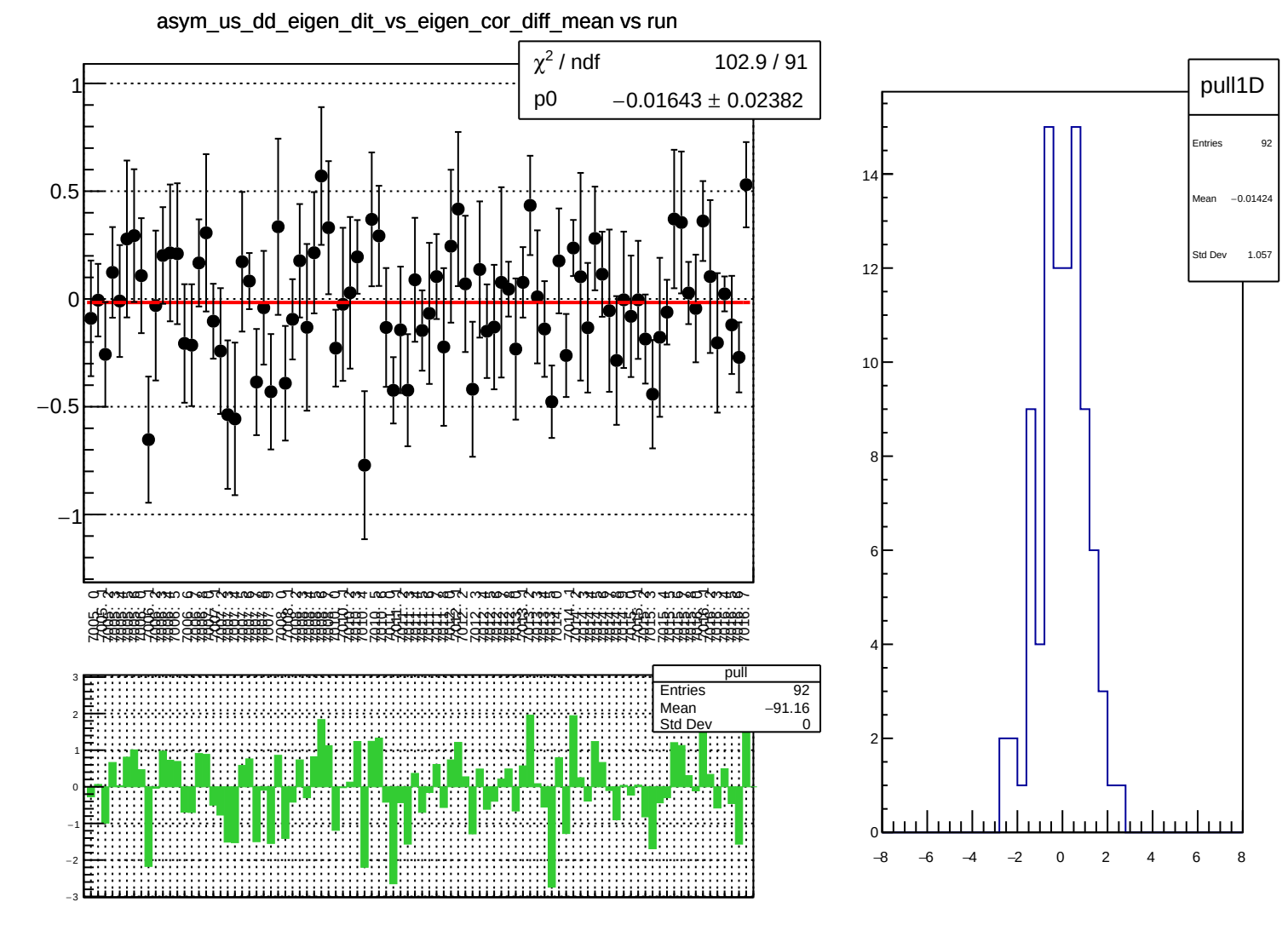

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.2e+04 / 91
p0 36.62 ± 0.02848
60
55
50
45
40
35
30
25
20

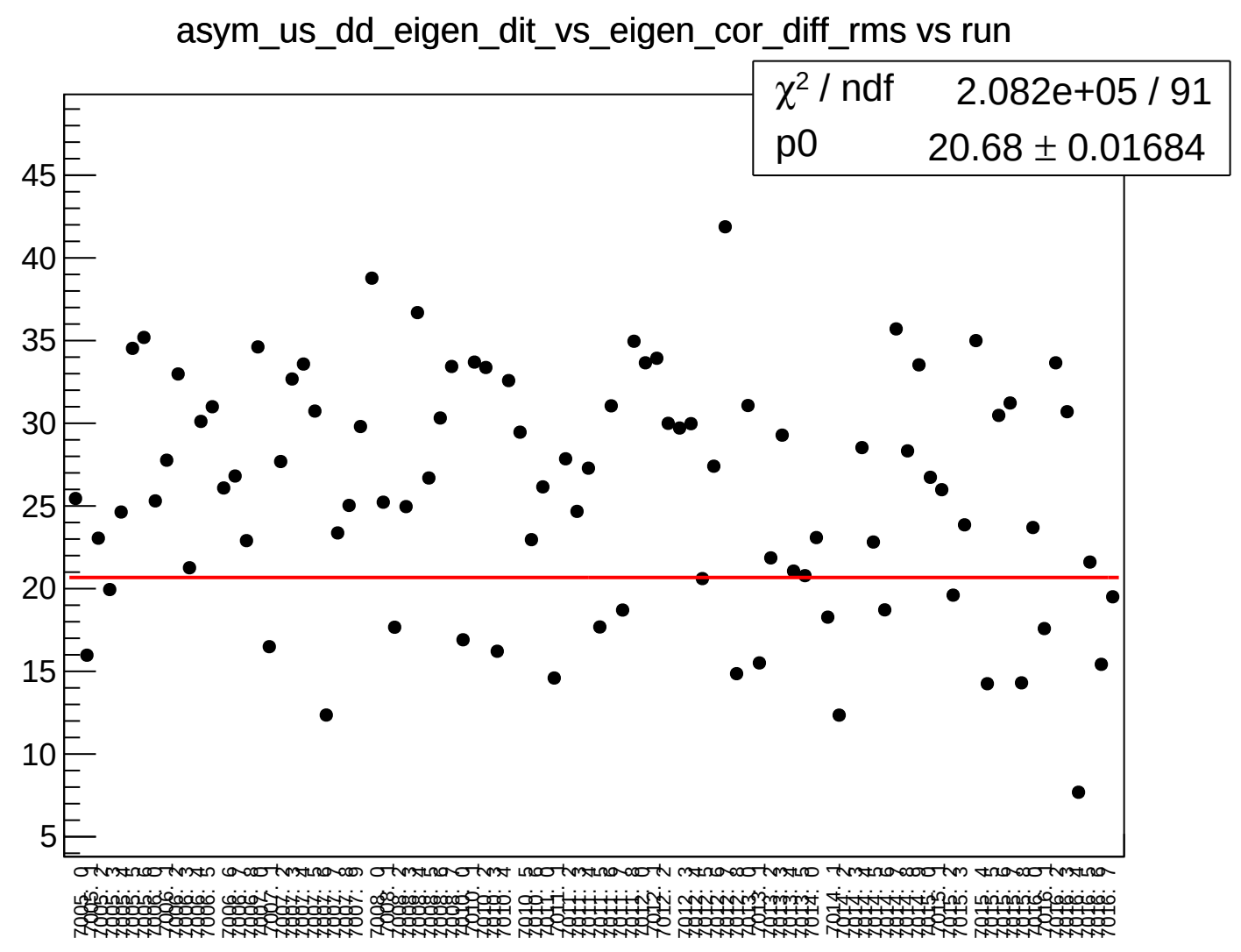

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.85 / 91
p0 3.474e−06 ± 1.078e−06
pull
Entries 92
Mean −136.8
Std Dev 0
pull1D
Entries 92
Mean −0.003375
Std Dev 0.9432

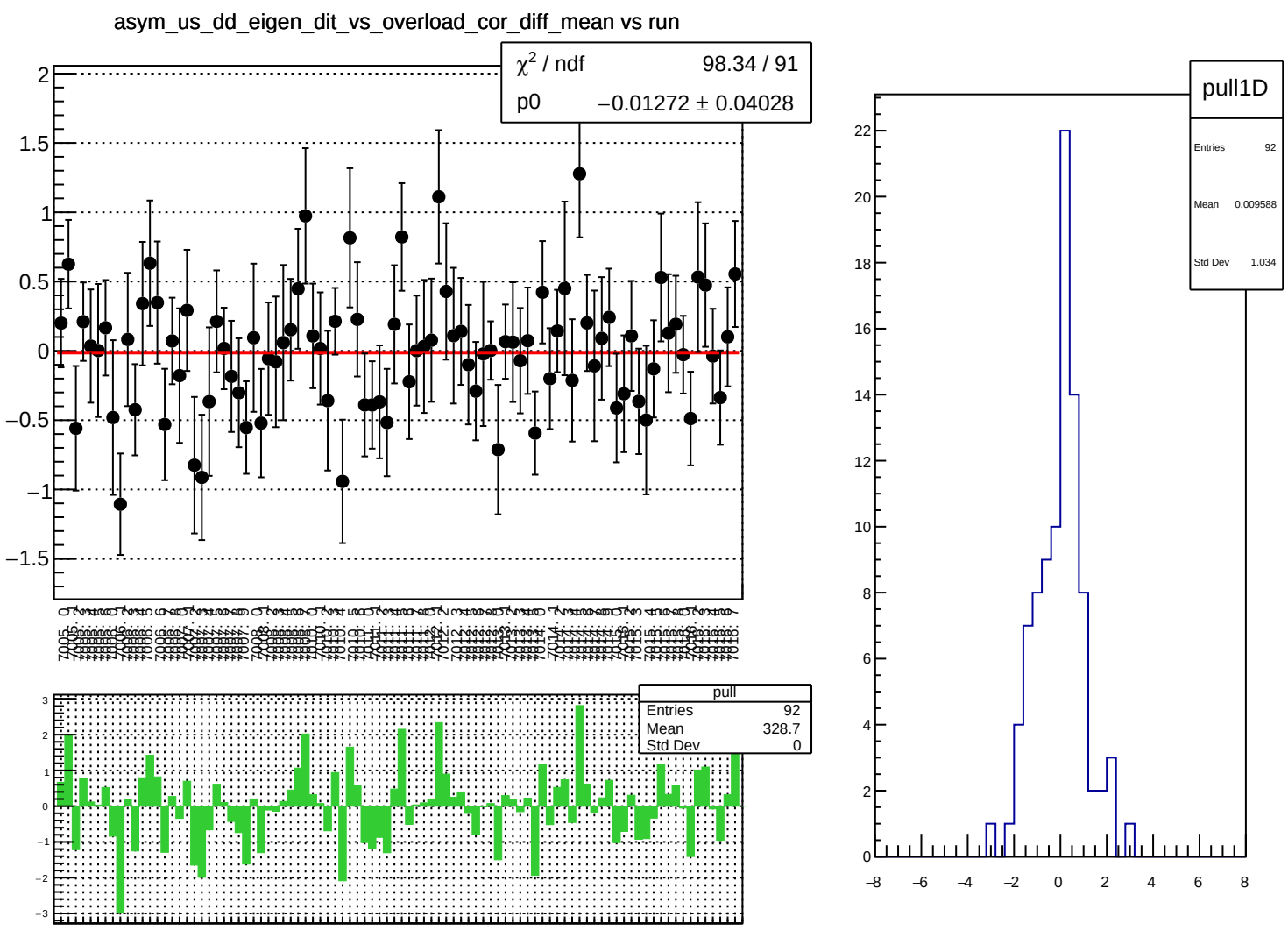

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3610 / 91
p0 0.0009977 ± 7.626e−07
0.0011
0.00105
0.001
0.00095
0.0009

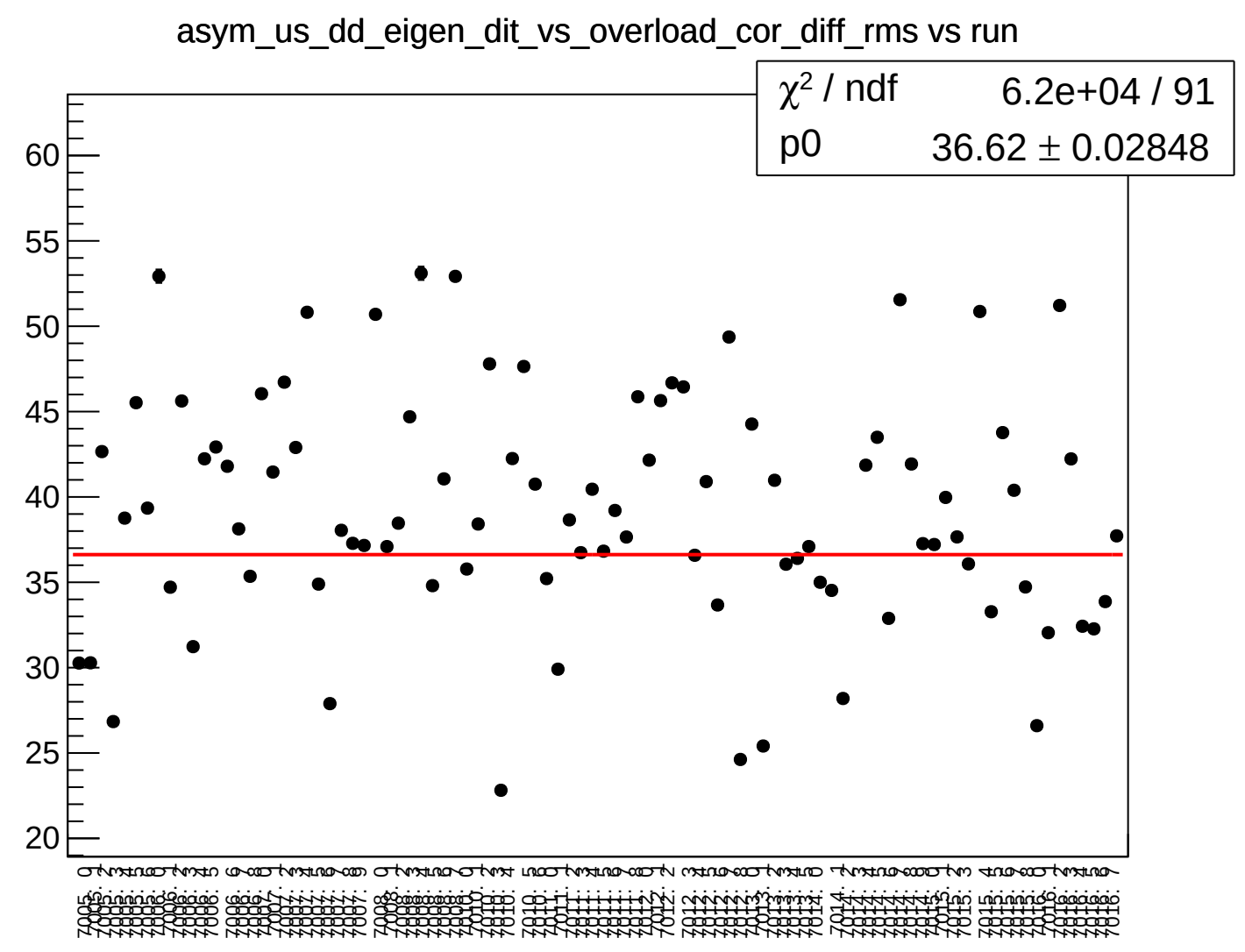

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 91
p0 −0.01643 ± 0.02382
pull
Entries 92
Mean −91.16
Std Dev 0
pull1D
Entries 92
Mean −0.01424
Std Dev 1.057

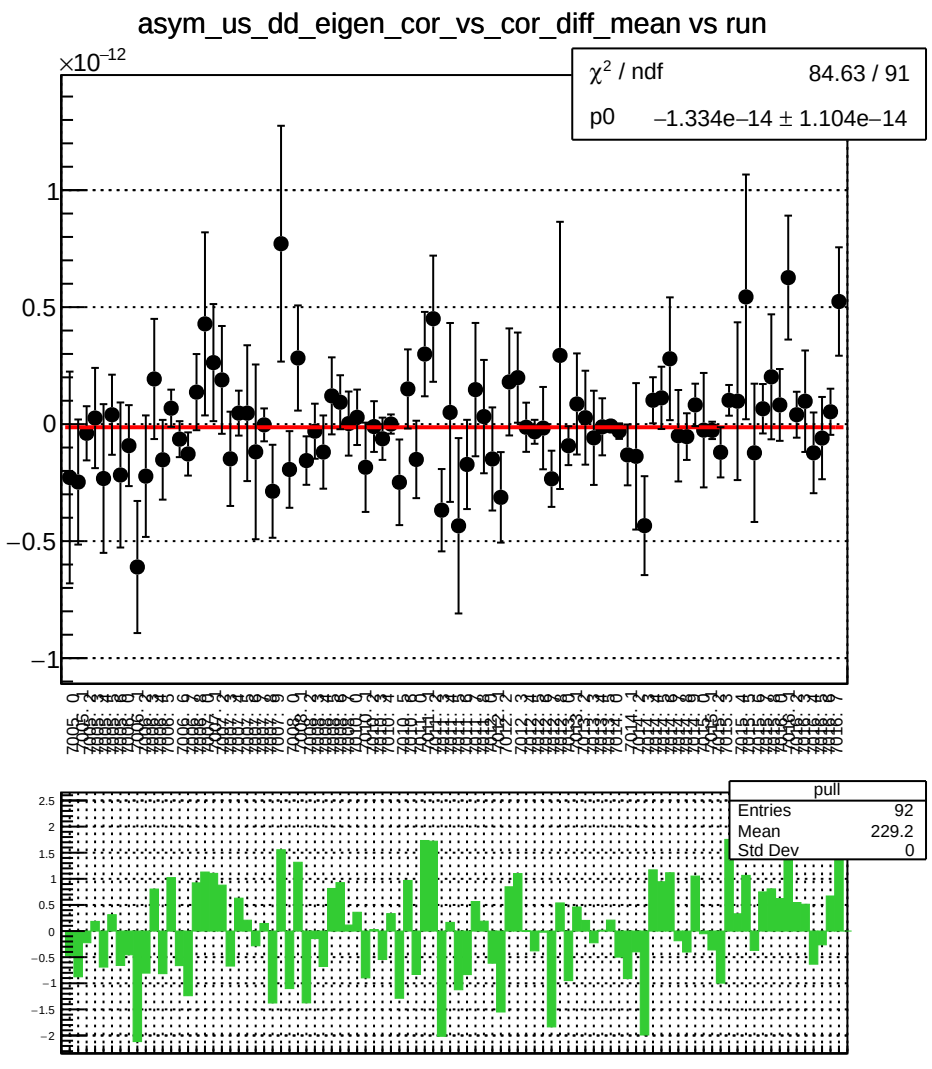

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 91
p0 20.68 ± 0.01684
45
40
35
30
25
20
15
10
5

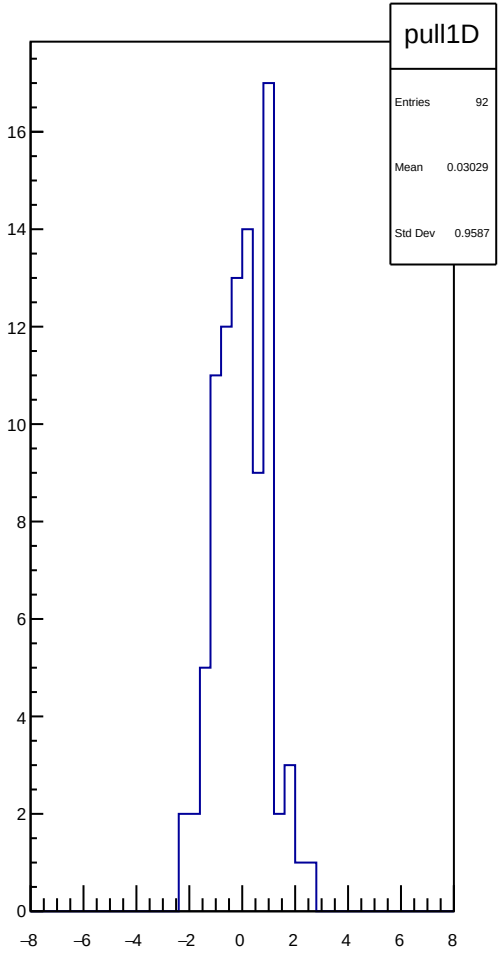

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.9 / 91
p0 −0.01643 ± 0.02382
pull
Entries 92
Mean −91.16
Std Dev 0
pull1D
Entries 92
Mean −0.01424
Std Dev 1.057

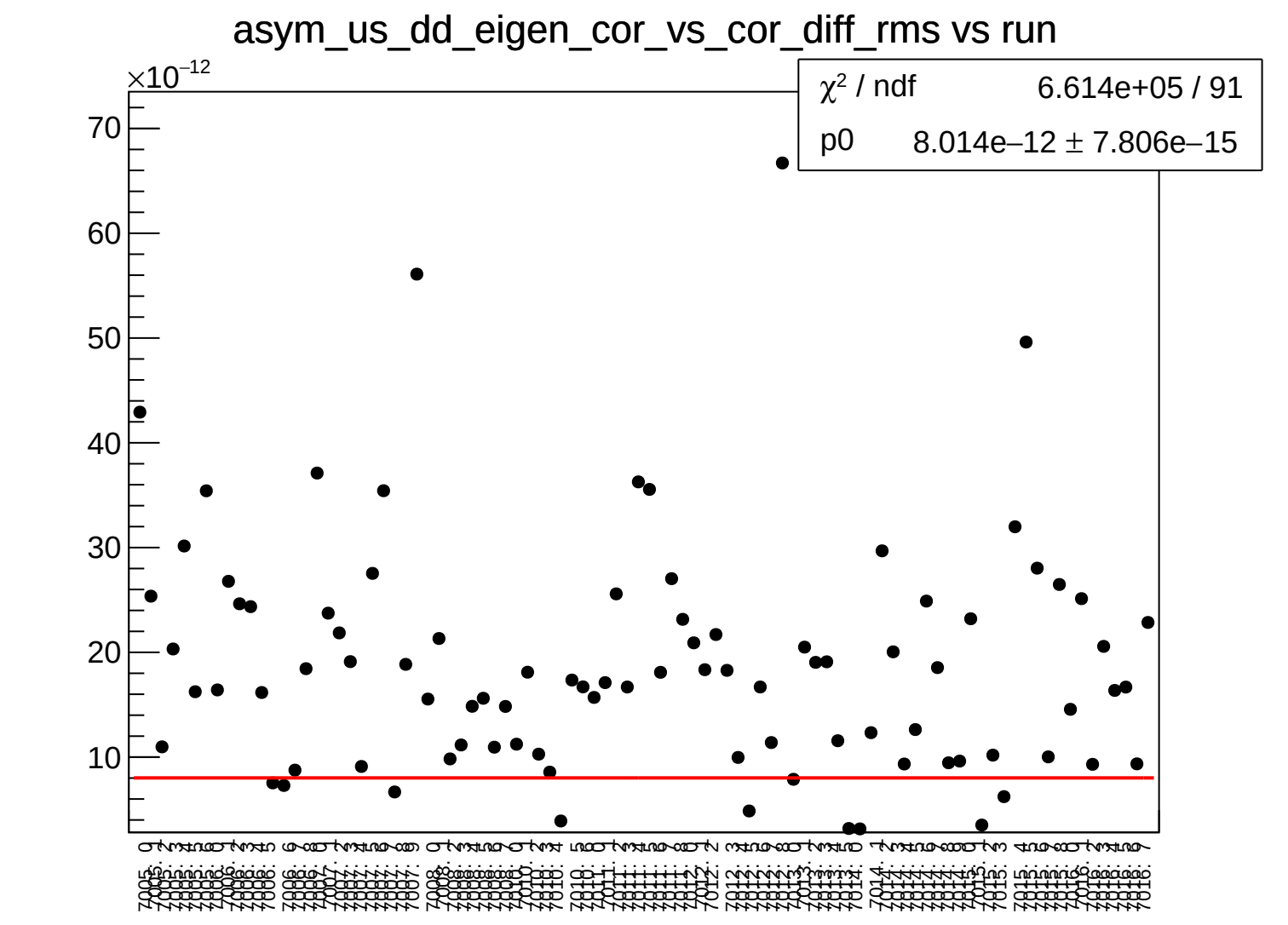

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.082e+05 / 91
p0 20.68 ± 0.01684
45
40
35
30
25
20
15
10
5

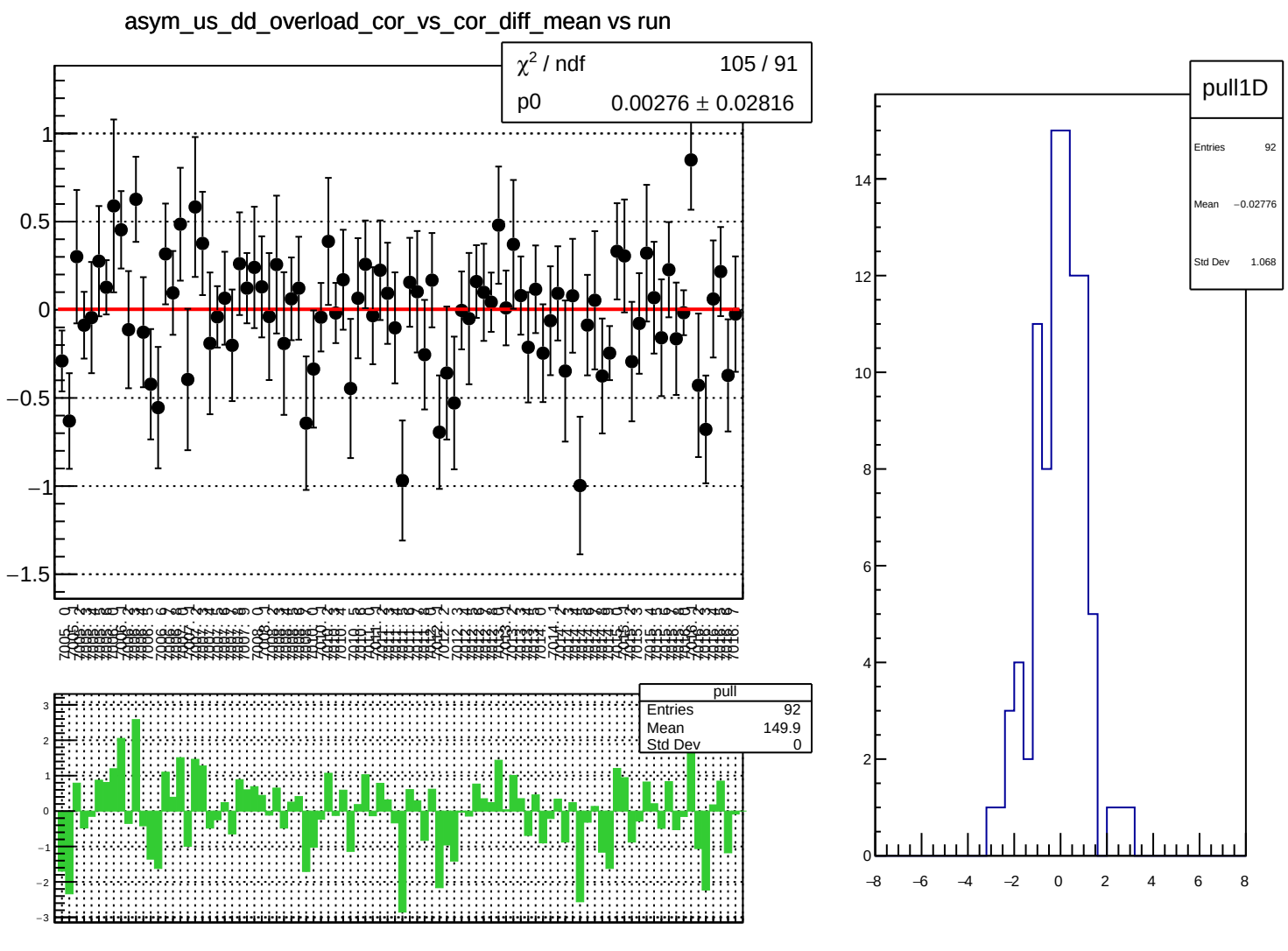

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.34 / 91
p0 −0.01272 ± 0.04028
pull
Entries 92
Mean 328.7
Std Dev 0
pull1D
Entries 92
Mean 0.009588
Std Dev 1.034

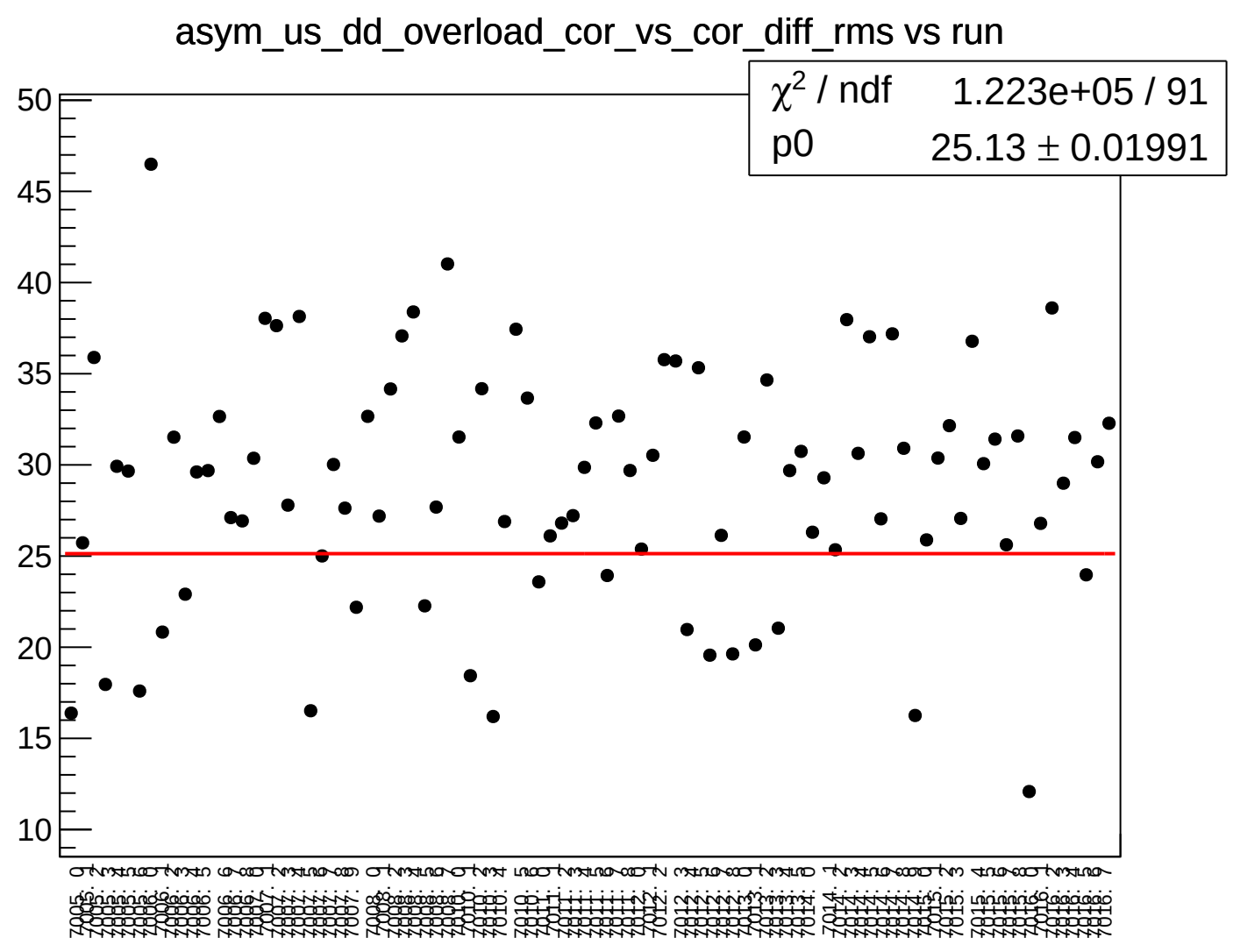

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.2e+04 / 91
p0 36.62 ± 0.02848
60
55
50
45
40
35
30
25
20

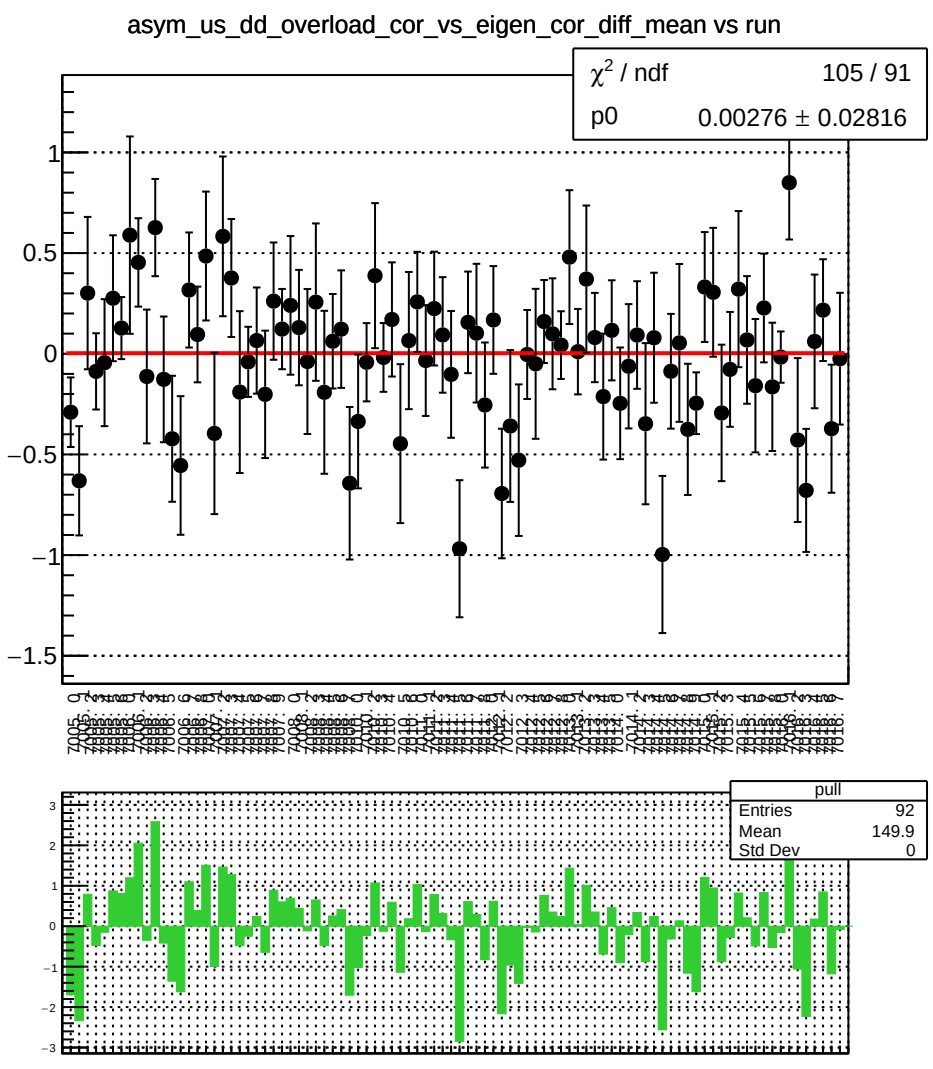

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.63 / 91
p0 −1.334e−14 ± 1.104e−14
pull
Entries 92
Mean 229.2
Std Dev 0

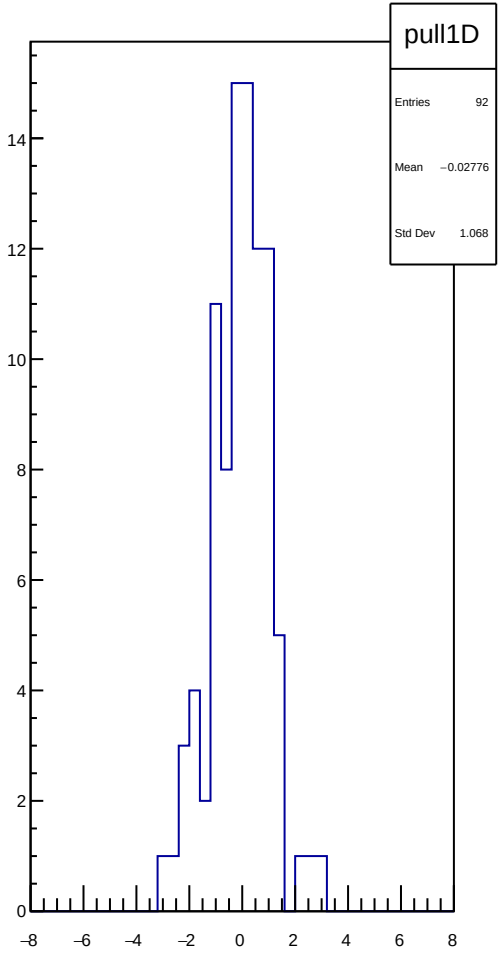

pull1D
Entries 92
Mean 0.03029
Std Dev 0.9587

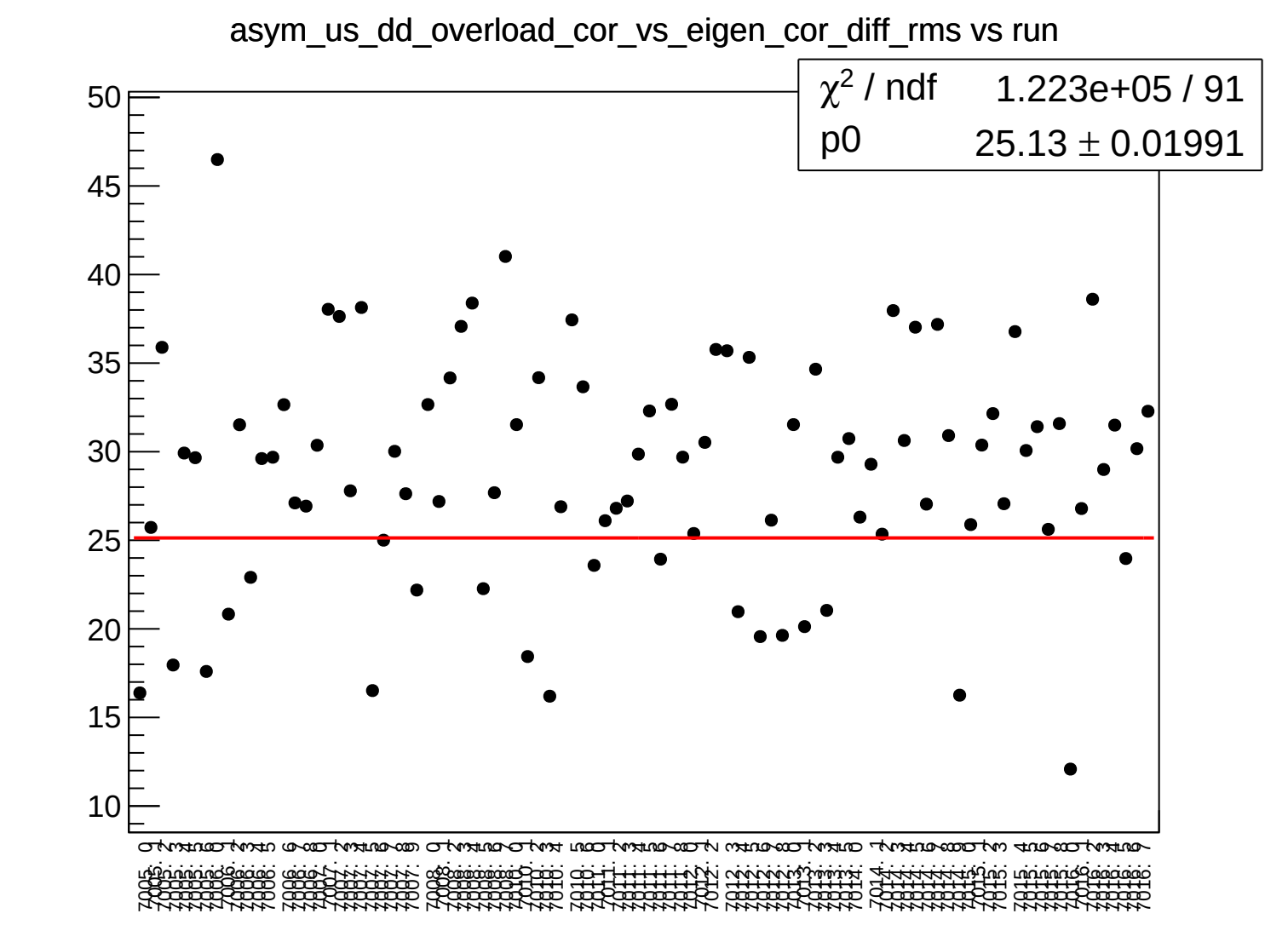

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.614e+05 / 91
p0 8.014e−12 ± 7.806e−15
70
60
50
40
30
20
10

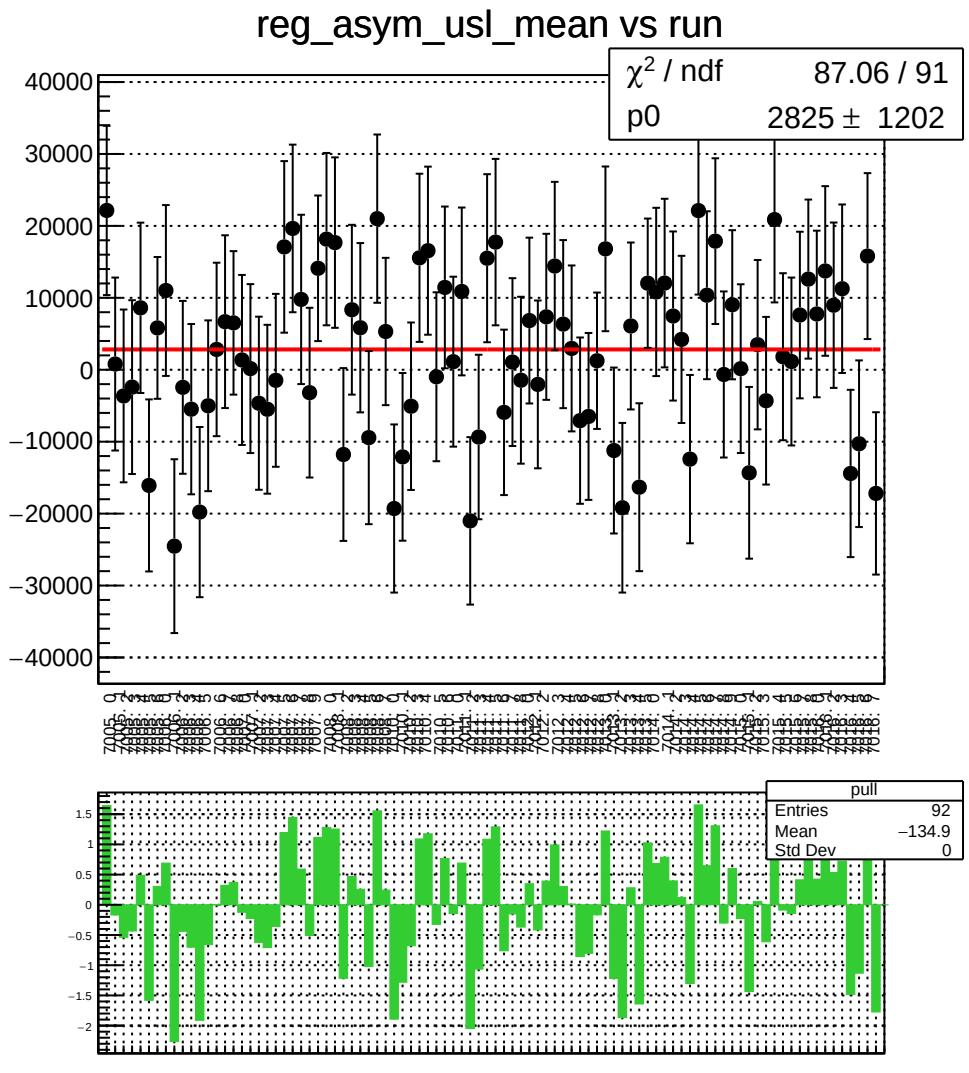

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 105 / 91
p0 0.00276 ± 0.02816
pull
Entries 92
Mean 149.9
Std Dev 0
pull1D
Entries 92
Mean −0.02776
Std Dev 1.068

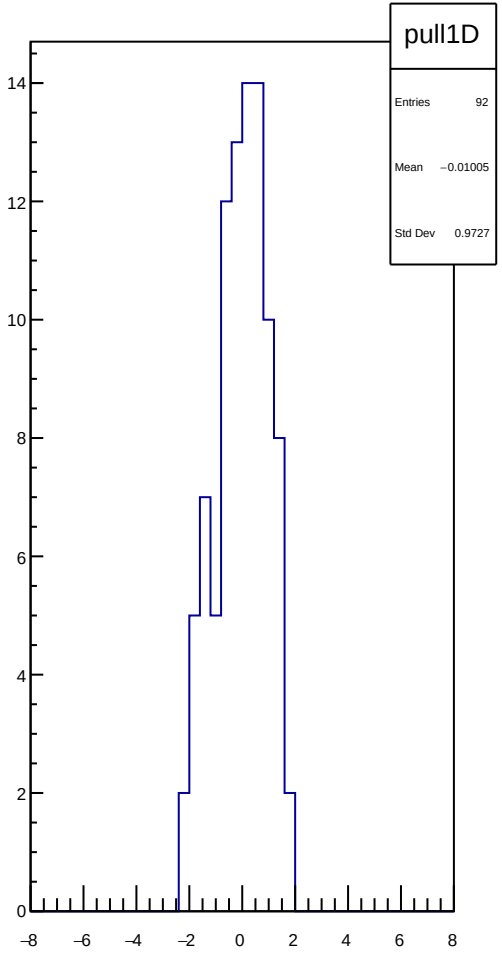

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.223e+05 / 91
p0 25.13 ± 0.01991
50
45
40
35
30
25
20
15
10

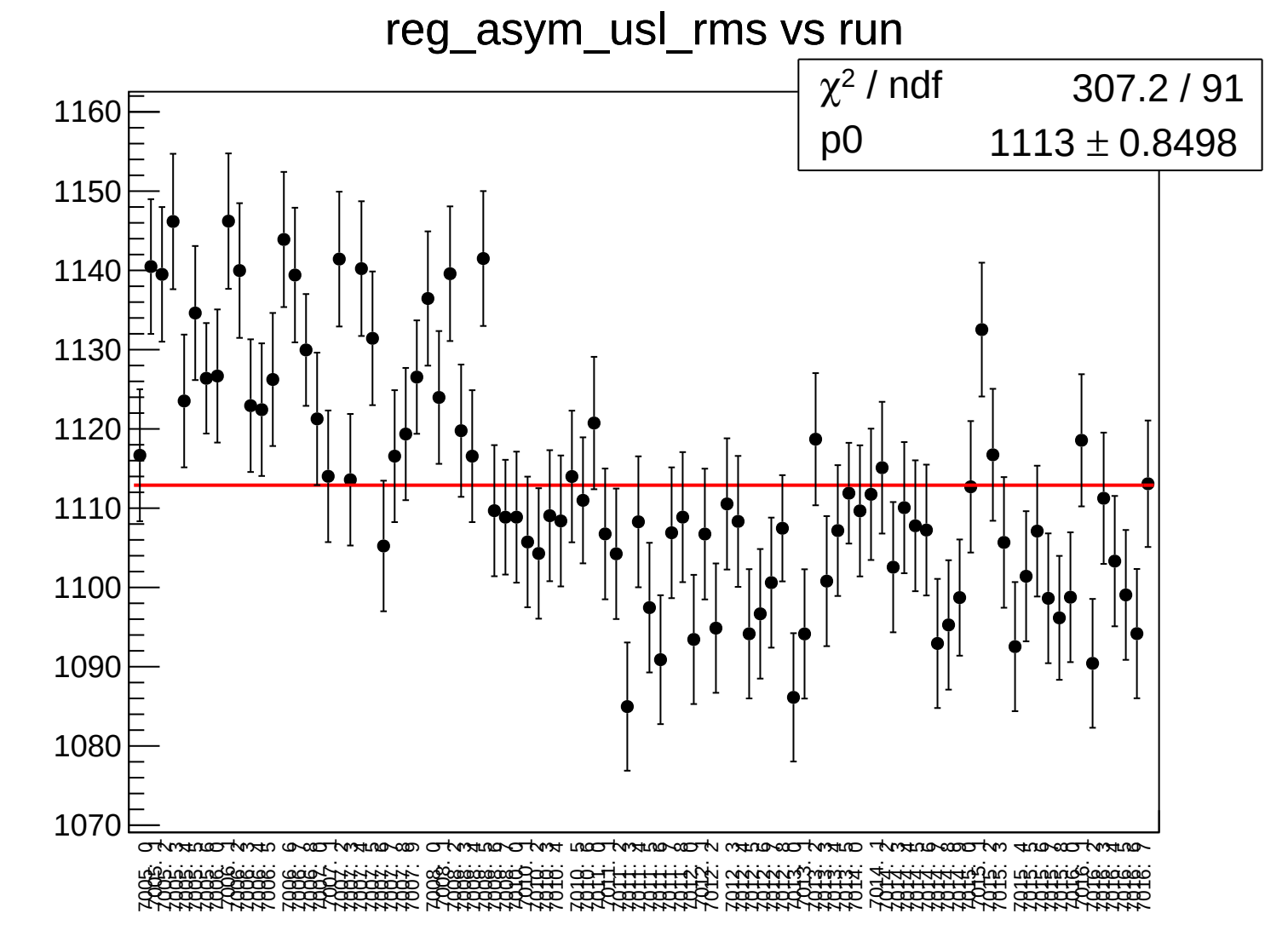

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 105 / 91
p0 0.00276 ± 0.02816
pull
Entries 92
Mean 149.9
Std Dev 0

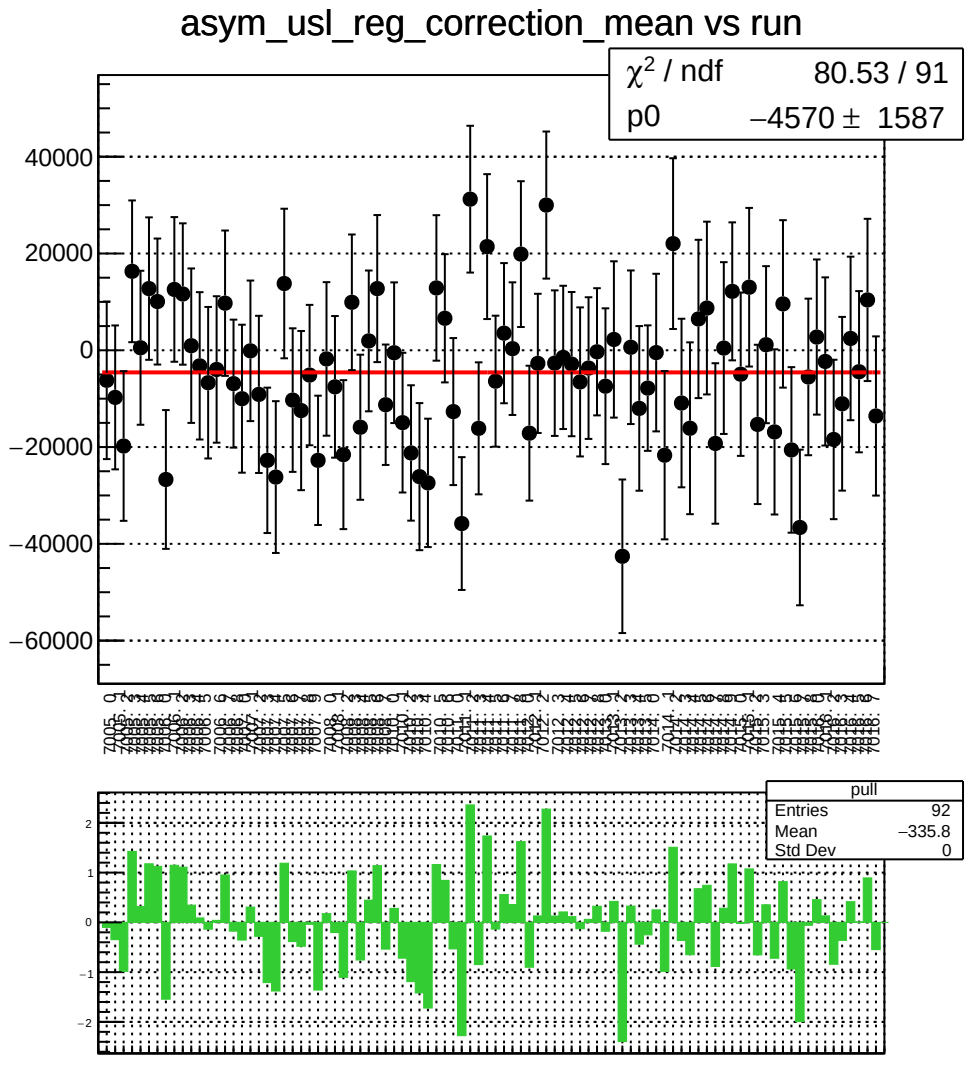

pull1D
Entries 92
Mean −0.02776
Std Dev 1.068

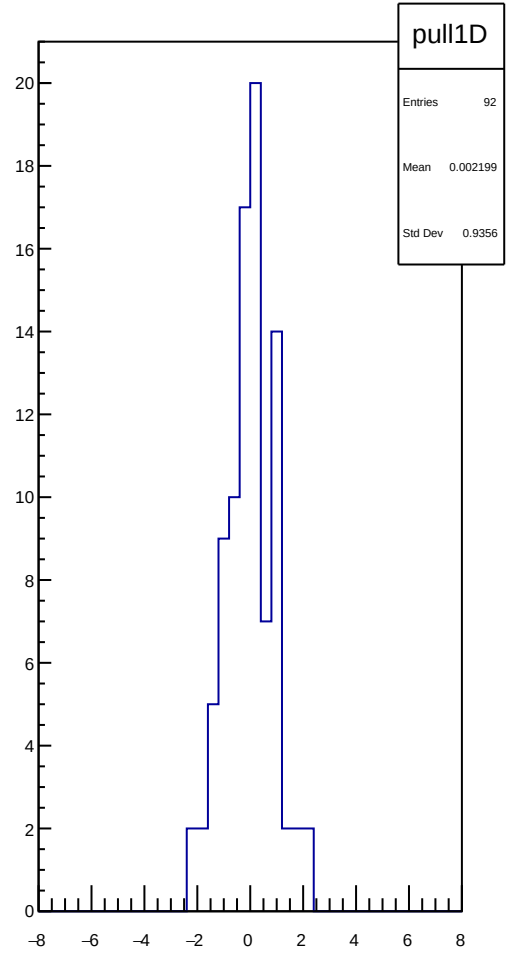

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.223e+05 / 91
p0 25.13 ± 0.01991
50
45
40
35
30
25
20
15
10

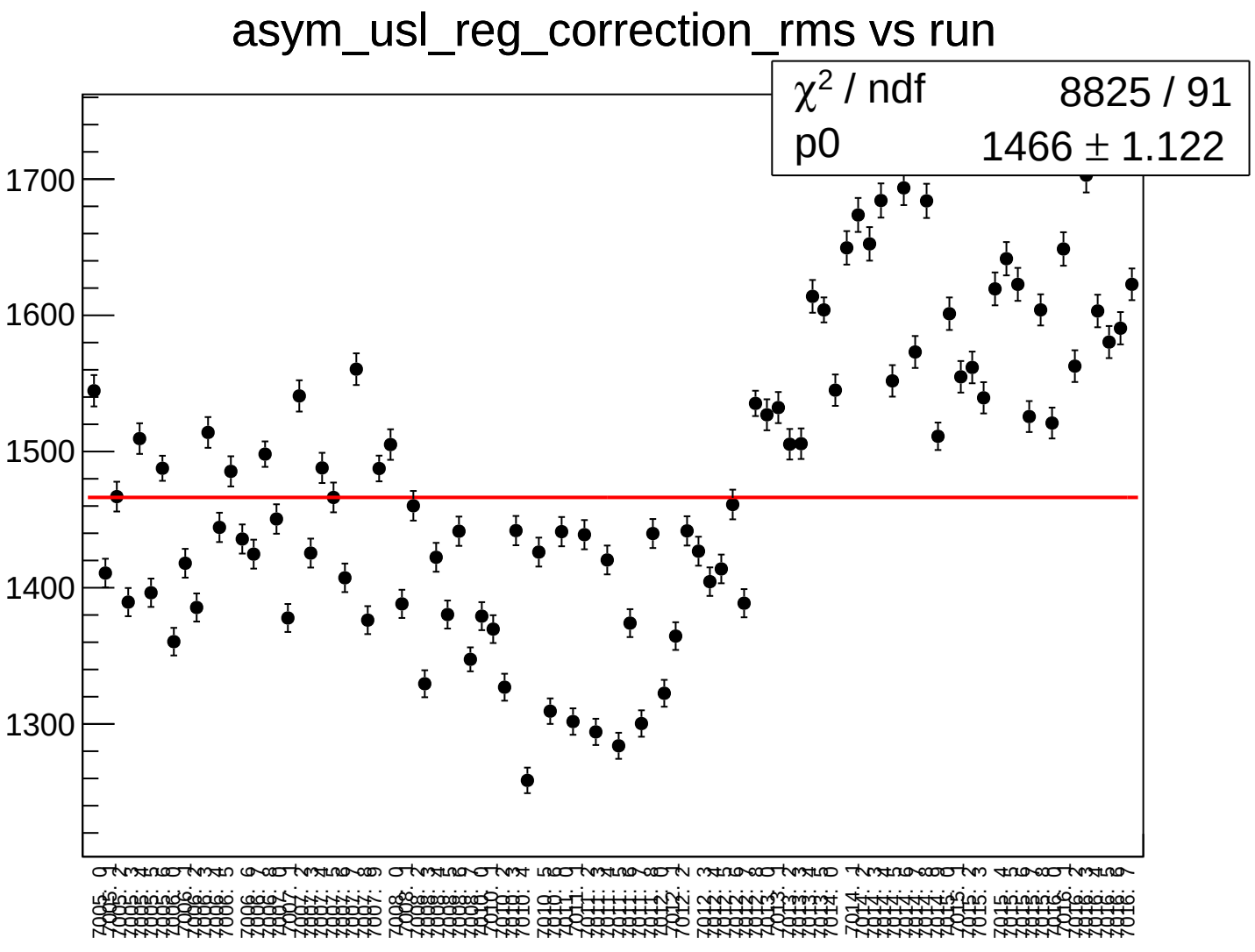

reg_asym_usl_mean vs run
χ² / ndf 87.06 / 91
p0 2825 ± 1202
pull
Entries 92
Mean −134.9
Std Dev 0

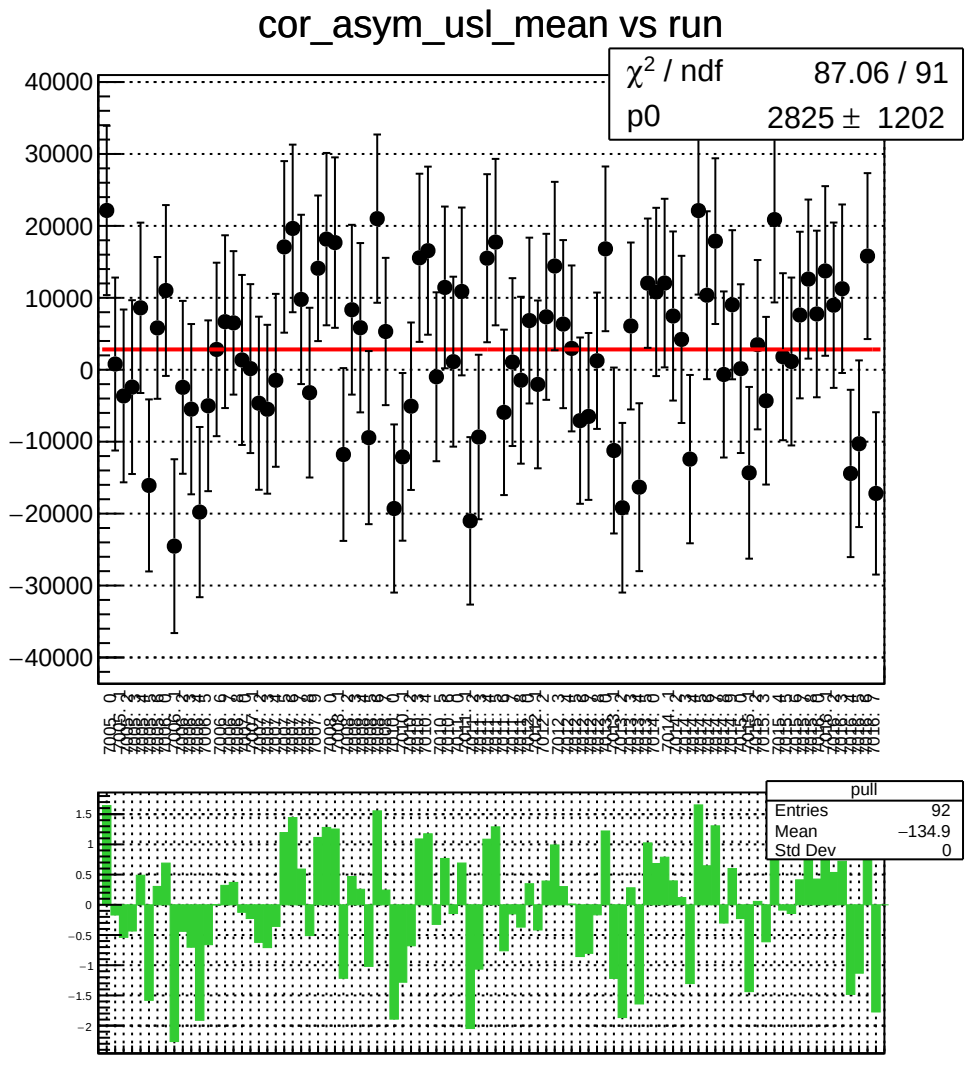

pull1D
Entries 92
Mean −0.01005
Std Dev 0.9727

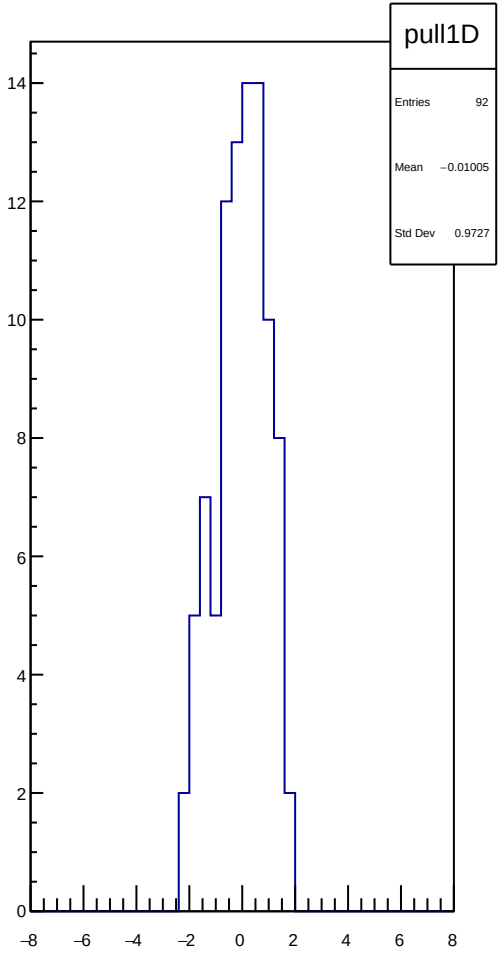

reg_asym_usl_rms vs run
χ² / ndf 307.2 / 91
p0 1113 ± 0.8498
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070

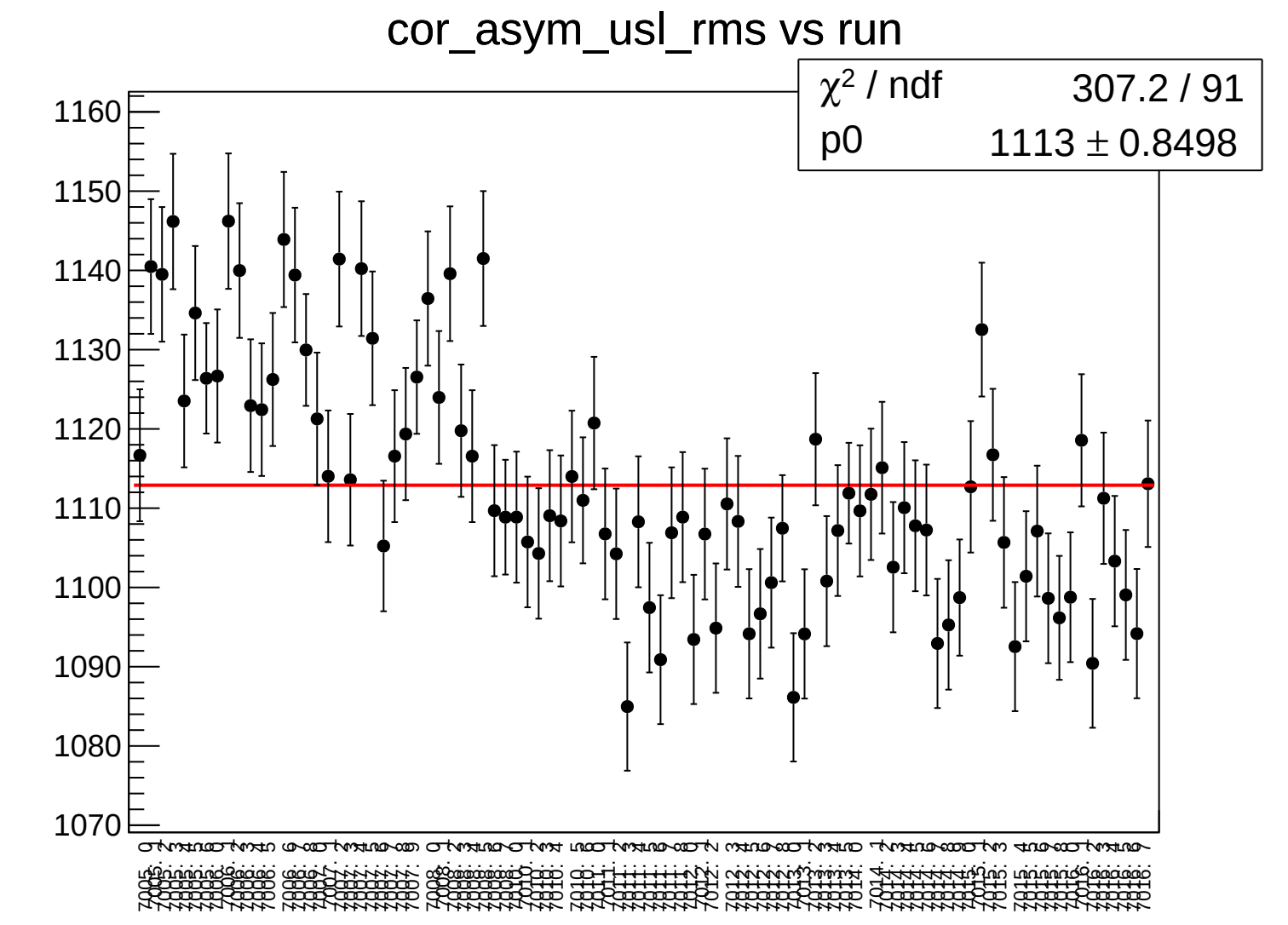

asym_usl_reg_correction_mean vs run
χ² / ndf 80.53 / 91
p0 −4570 ± 1587
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −335.8
Std Dev 0
2
1
0
−1
−2

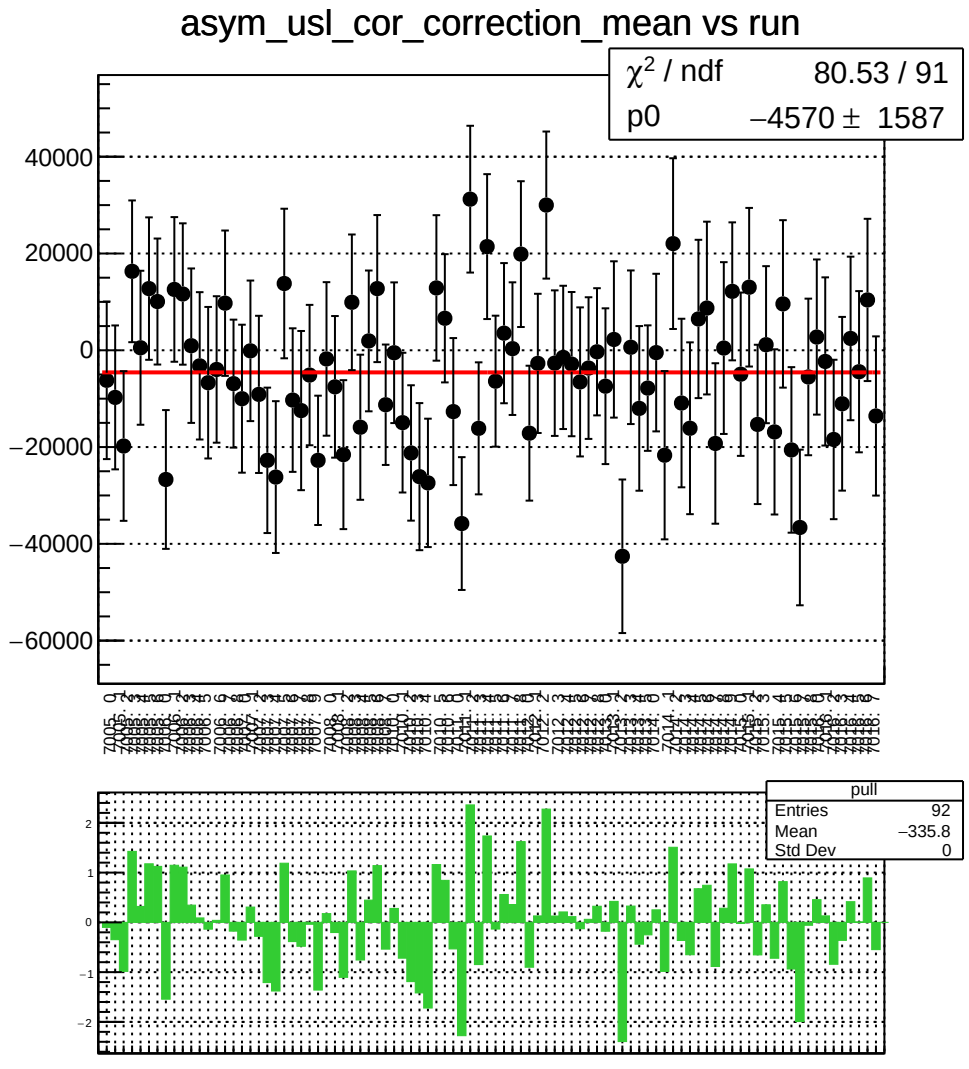

pull1D
Entries 92
Mean 0.002199
Std Dev 0.9356
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

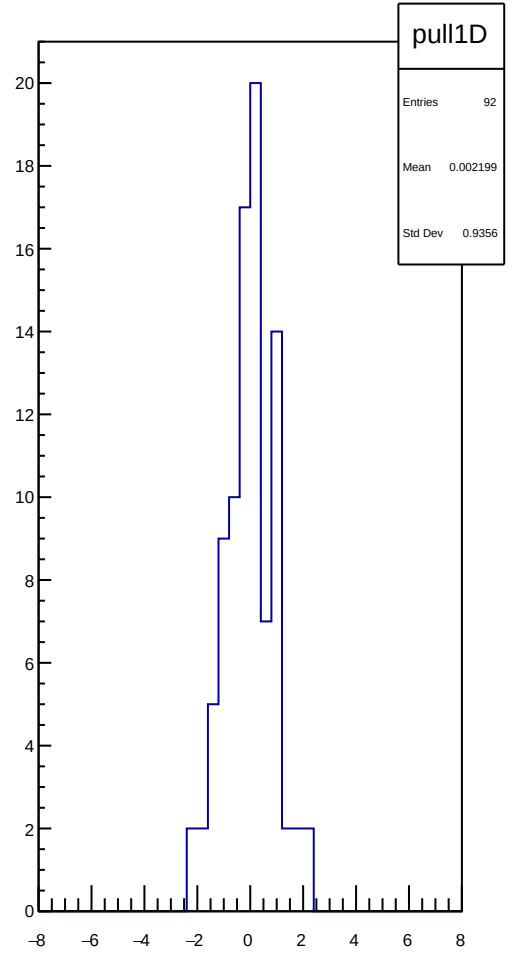

asym_usl_reg_correction_rms vs run
χ² / ndf 8825 / 91
p0 1466 ± 1.122
1700
1600
1500
1400
1300

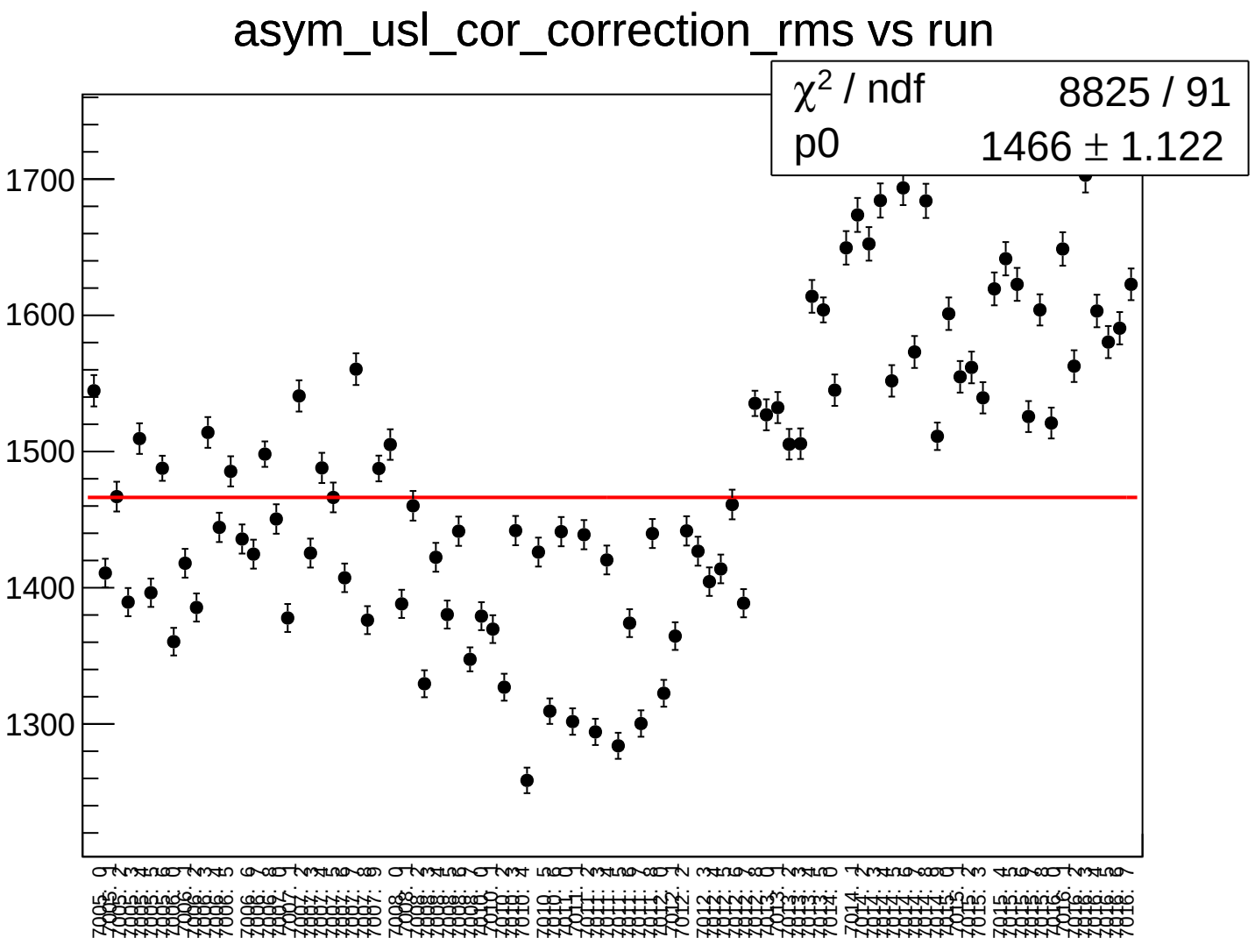

cor_asym_usl_mean vs run
χ² / ndf 87.06 / 91
p0 2825 ± 1202
pull
Entries 92
Mean −134.9
Std Dev 0

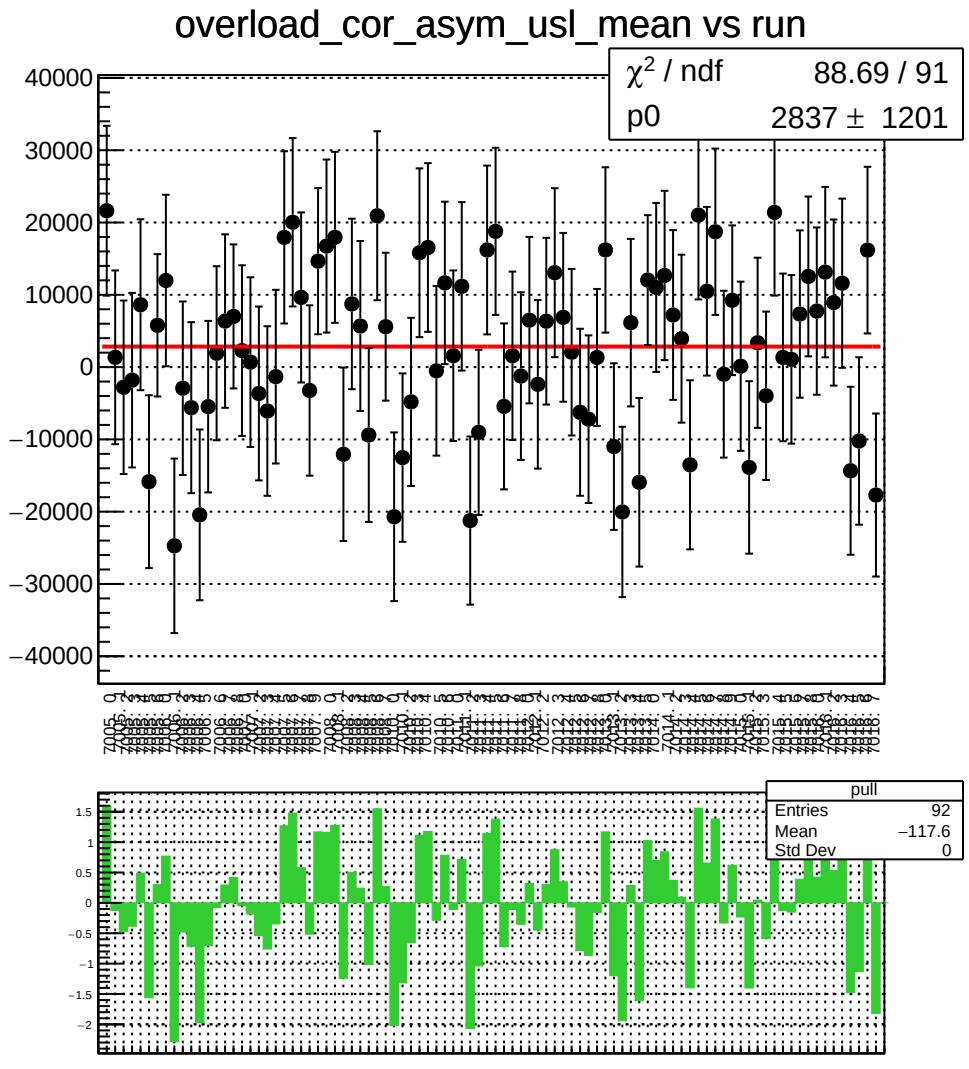

pull1D
Entries 92
Mean −0.01005
Std Dev 0.9727

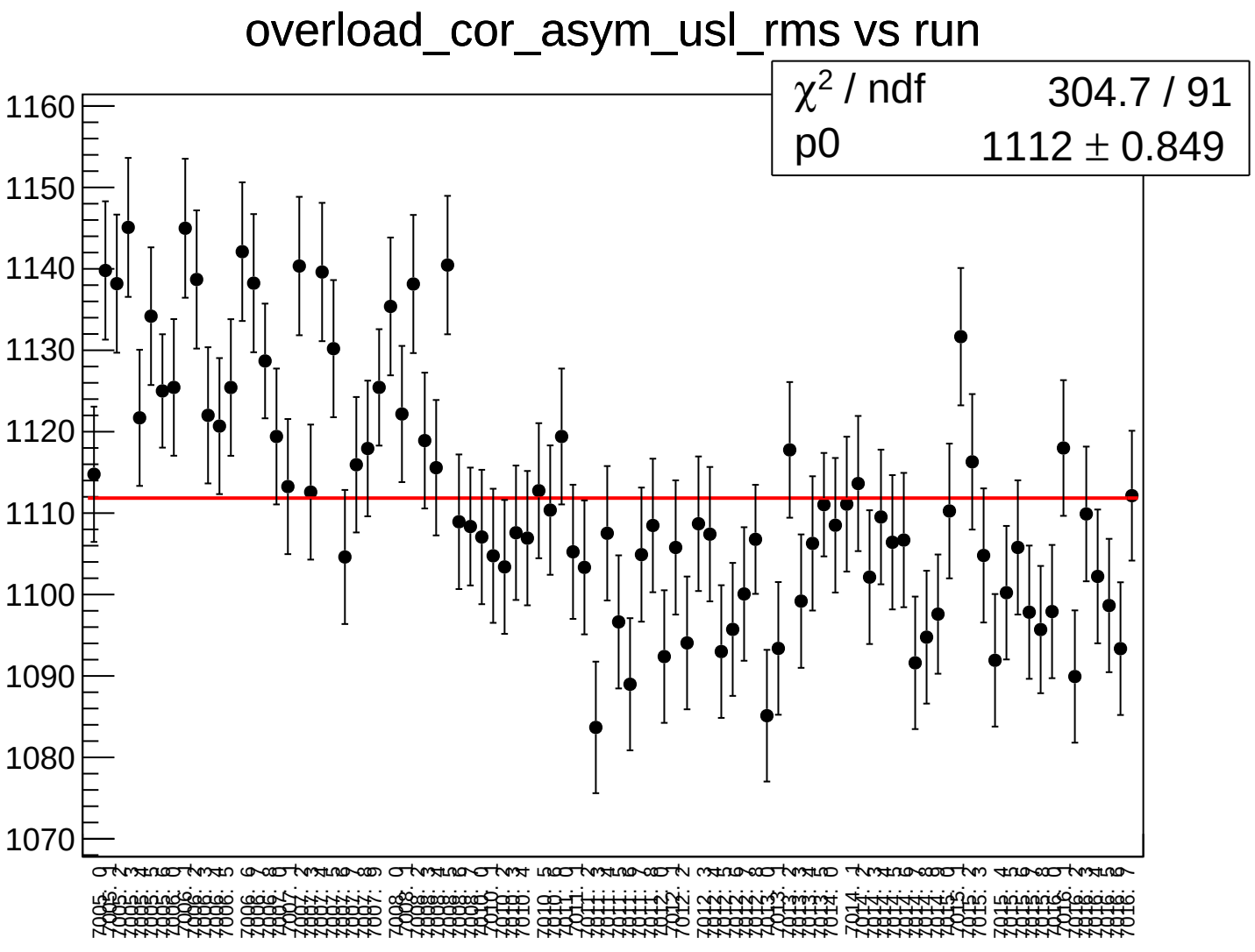

cor_asym_usl_rms vs run
χ² / ndf 307.2 / 91
p0 1113 ± 0.8498
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070

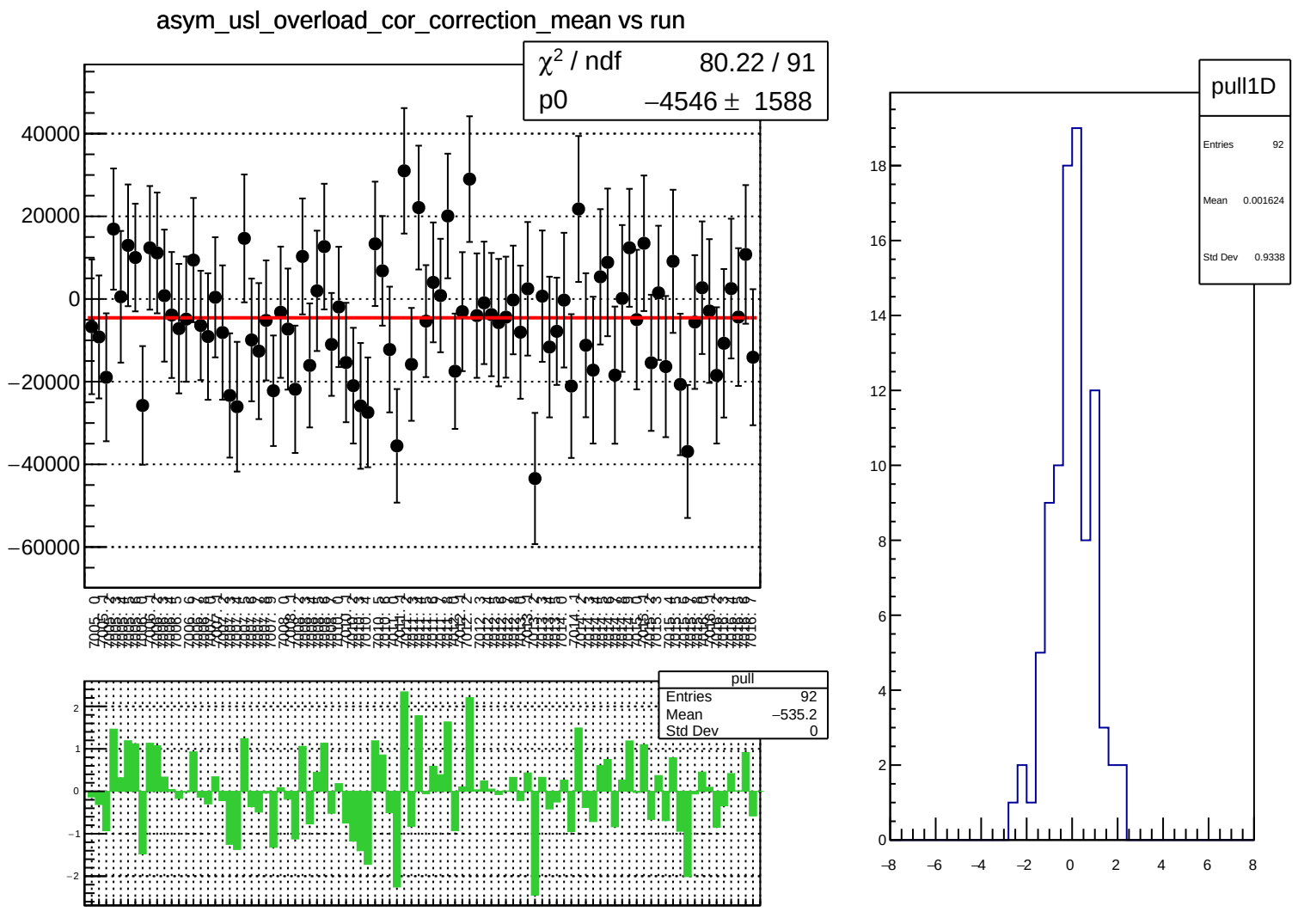

asym_usl_cor_correction_mean vs run
χ² / ndf 80.53 / 91
p0 −4570 ± 1587
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −335.8
Std Dev 0
2
1
0
−1
−2

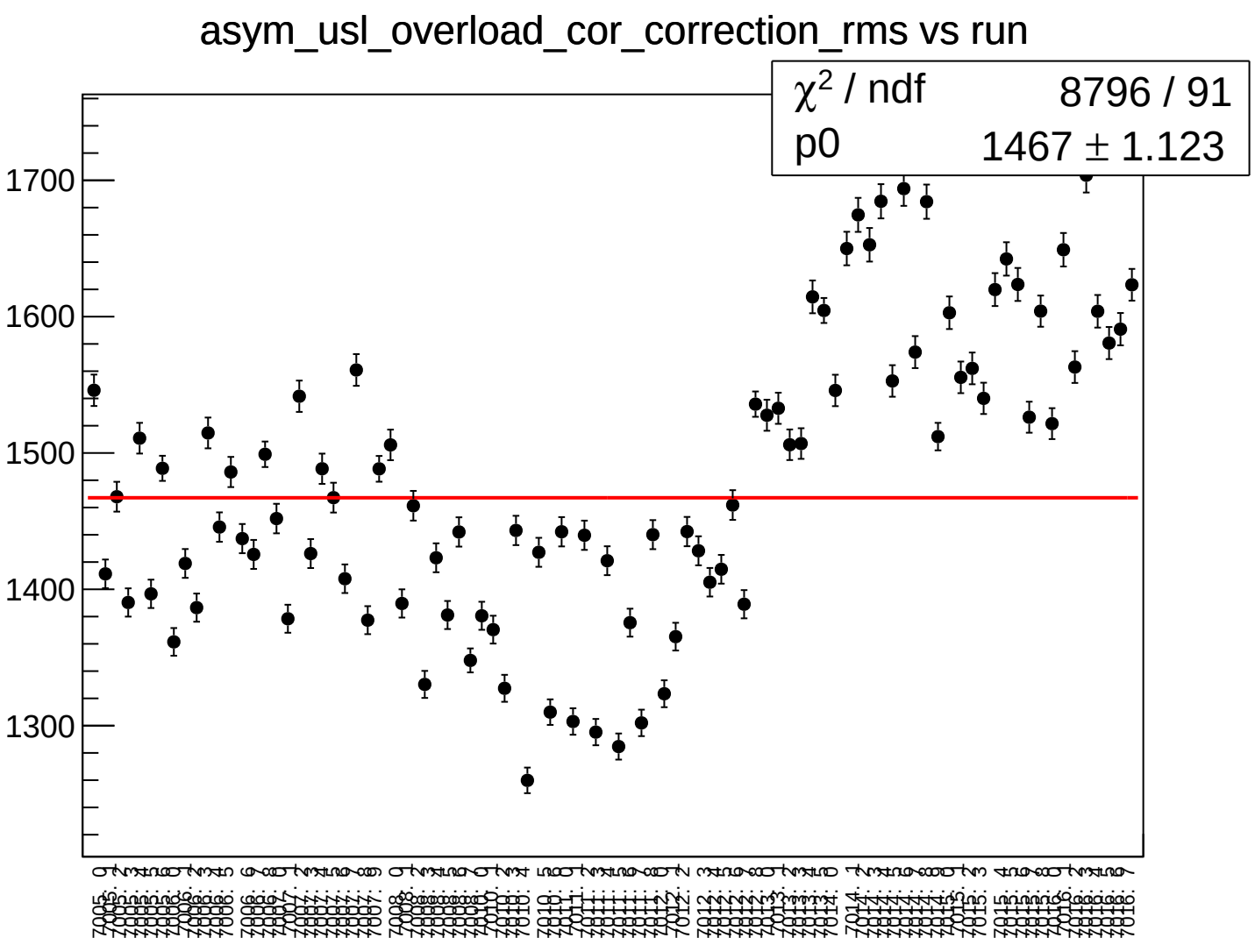

pull1D
Entries 92
Mean 0.002199
Std Dev 0.9356
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

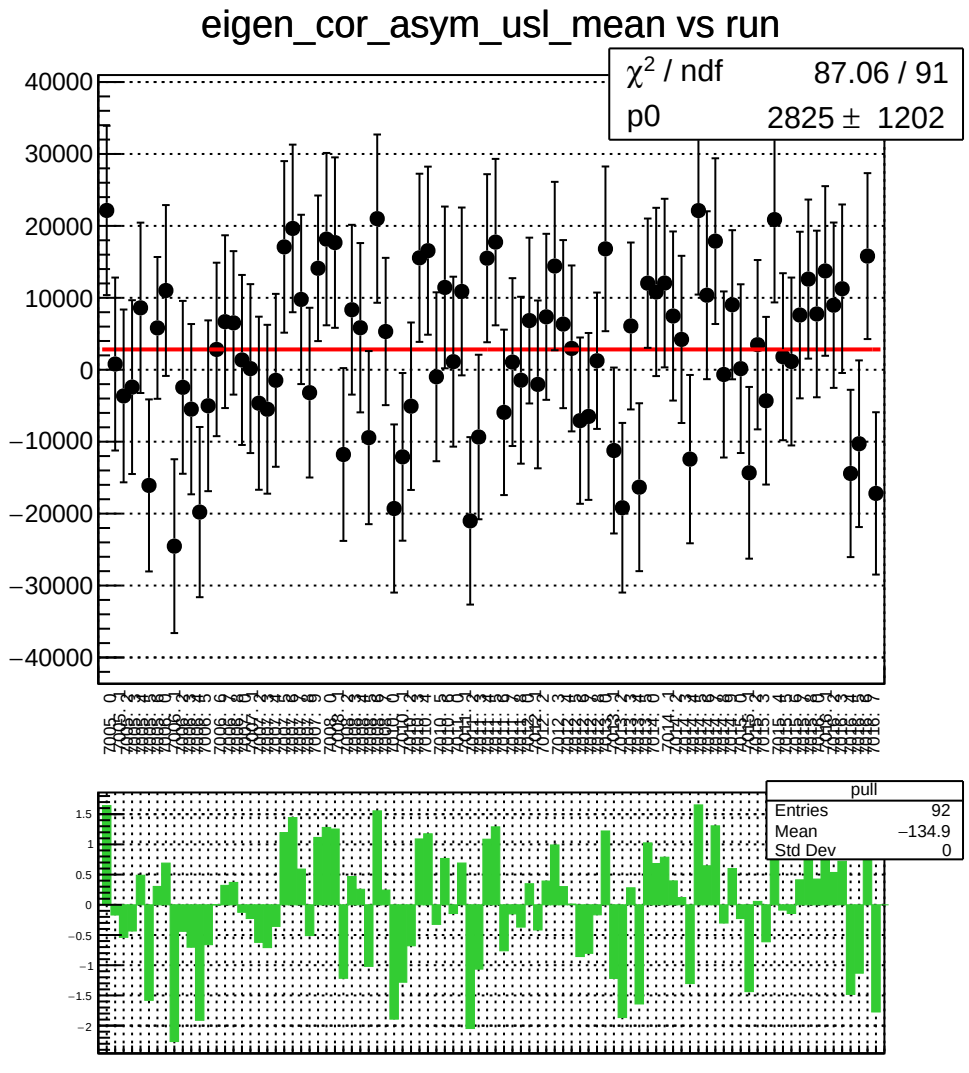

asym_usl_cor_correction_rms vs run
χ² / ndf 8825 / 91
p0 1466 ± 1.122
1700
1600
1500
1400
1300

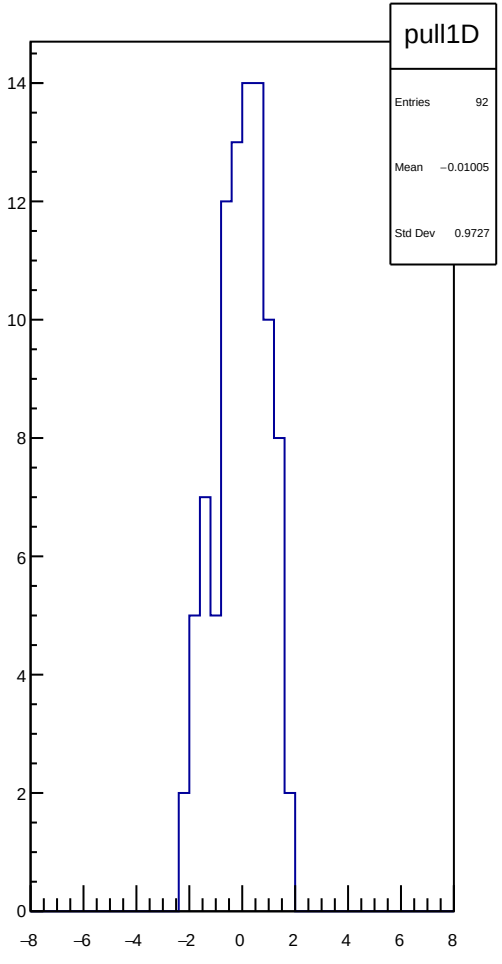

overload_cor_asym_usl_mean vs run
χ² / ndf 88.69 / 91
p0 2837 ± 1201
pull
Entries 92
Mean −117.6
Std Dev 0
pull1D
Entries 92
Mean −0.01028
Std Dev 0.9818

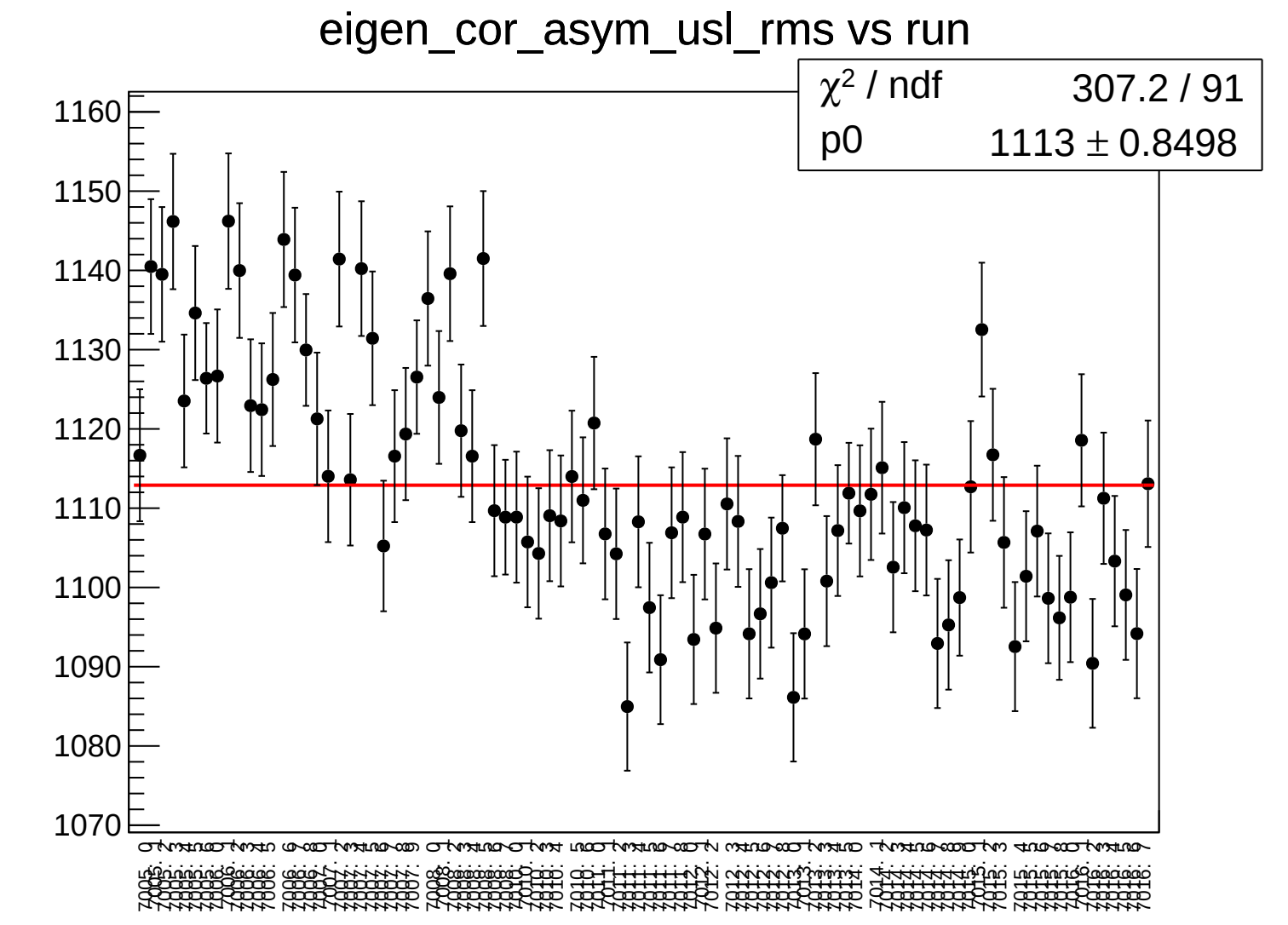

overload_cor_asym_usl_rms vs run
χ² / ndf 304.7 / 91
p0 1112 ± 0.849
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070

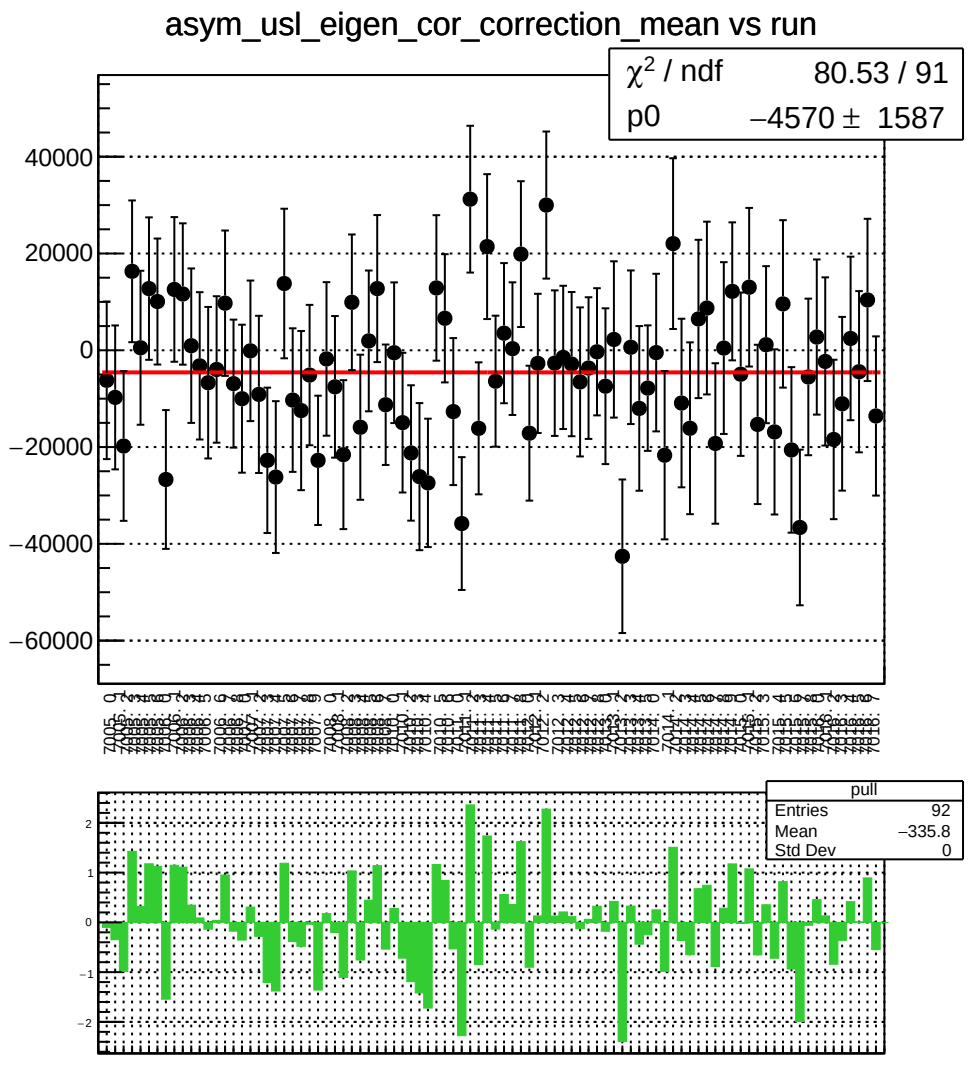

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 80.22 / 91
p0 −4546 ± 1588
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −535.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001624
Std Dev 0.9338
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

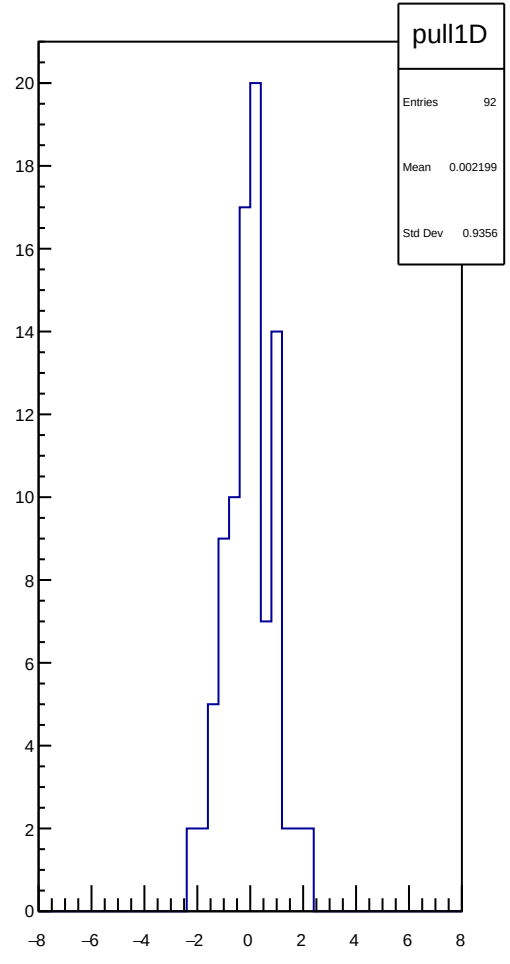

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 8796 / 91
p0 1467 ± 1.123
1700
1600
1500
1400
1300

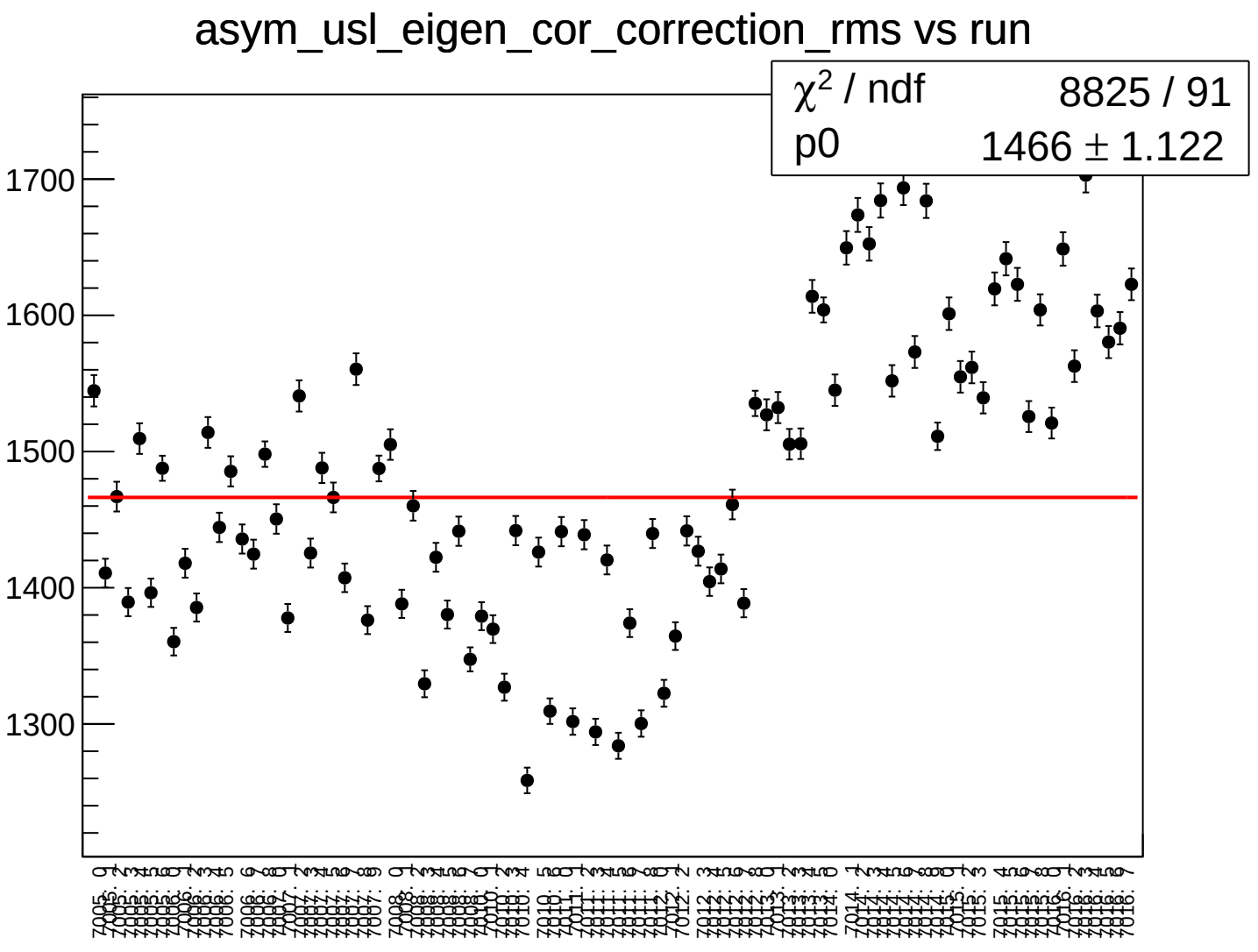

eigen_cor_asym_usl_mean vs run
χ² / ndf 87.06 / 91
p0 2825 ± 1202
pull
Entries 92
Mean −134.9
Std Dev 0

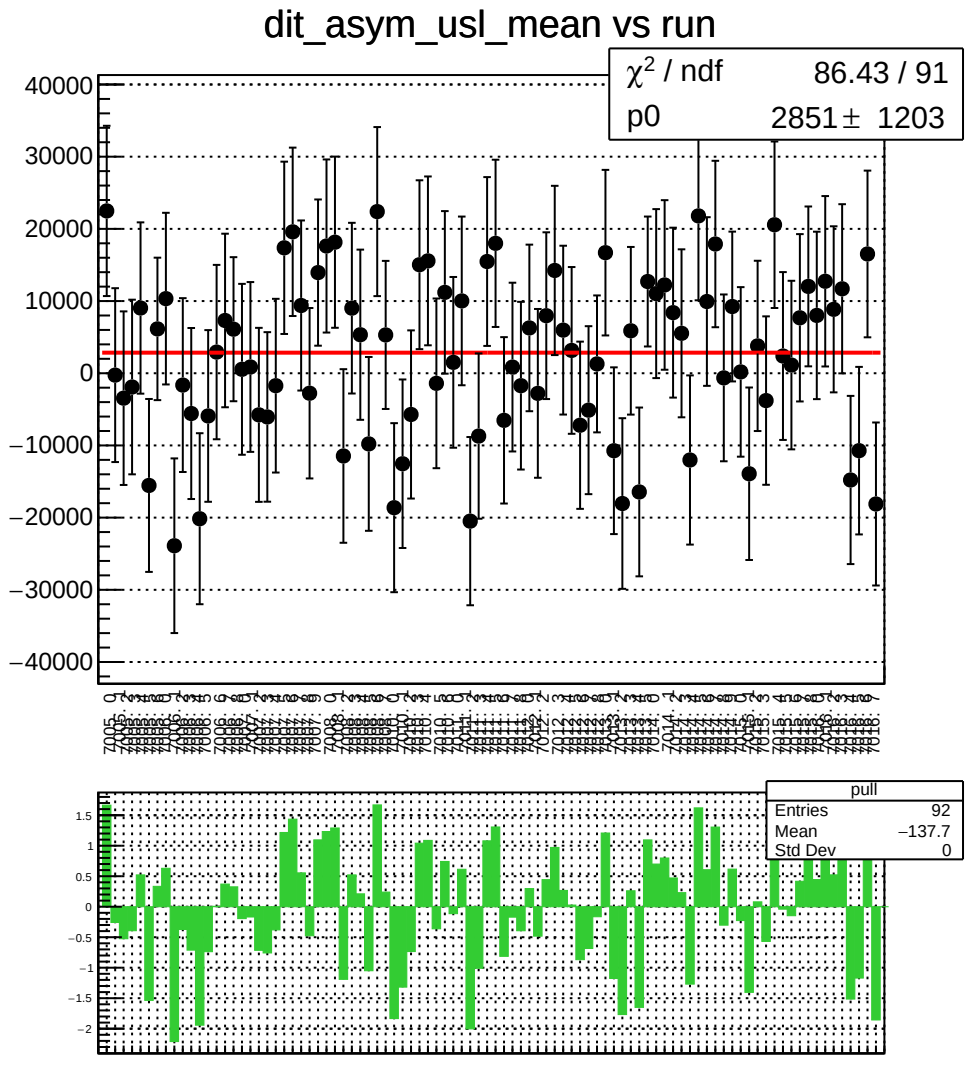

pull1D
Entries 92
Mean −0.01005
Std Dev 0.9727

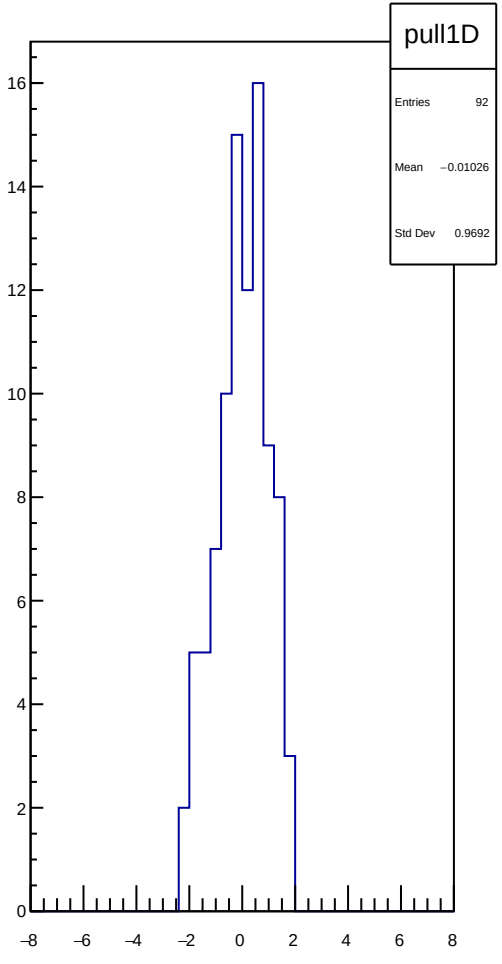

eigen_cor_asym_usl_rms vs run
χ² / ndf 307.2 / 91
p0 1113 ± 0.8498
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070

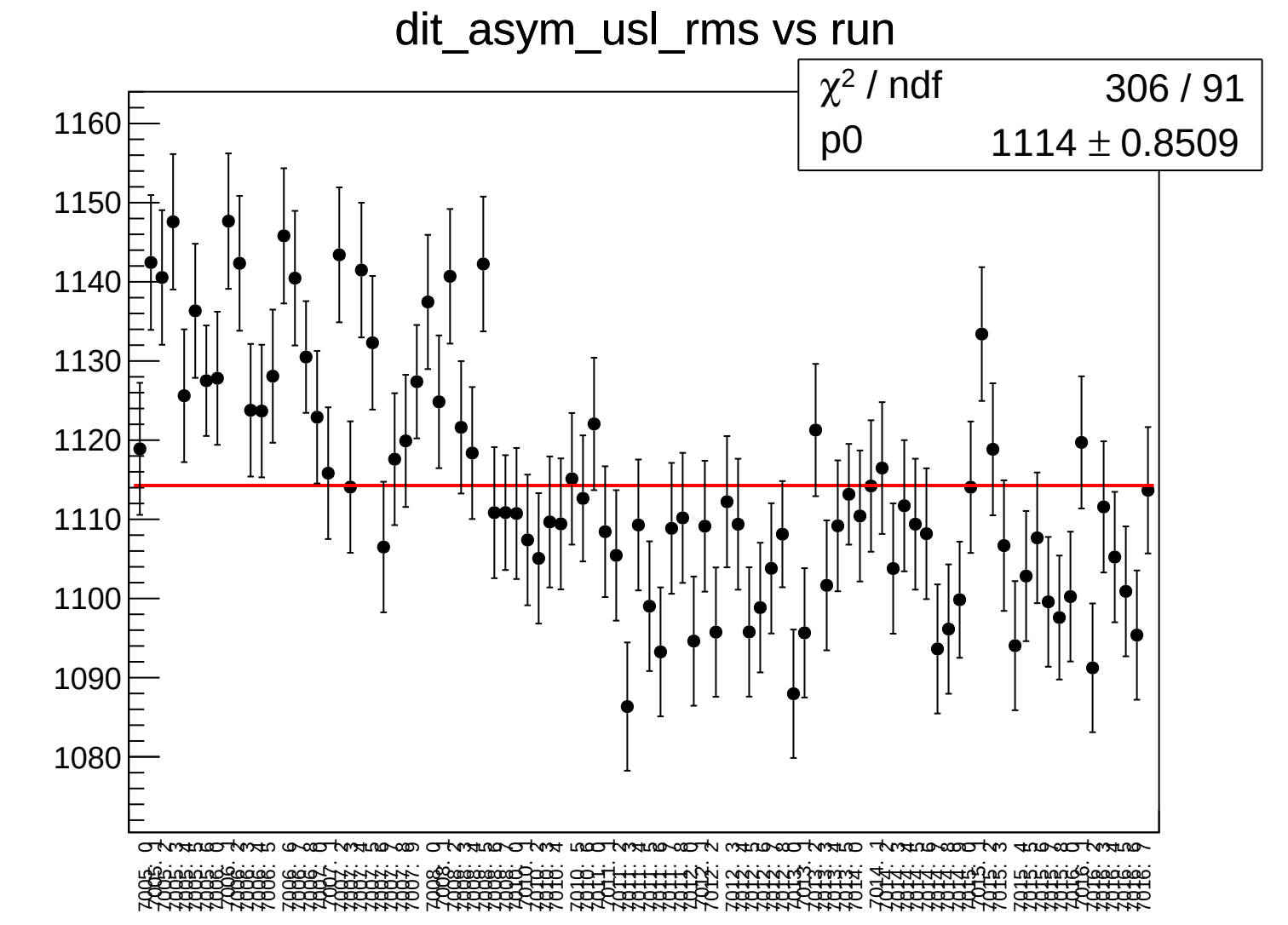

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 80.53 / 91
p0 −4570 ± 1587
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −335.8
Std Dev 0
2
1
0
−1
−2

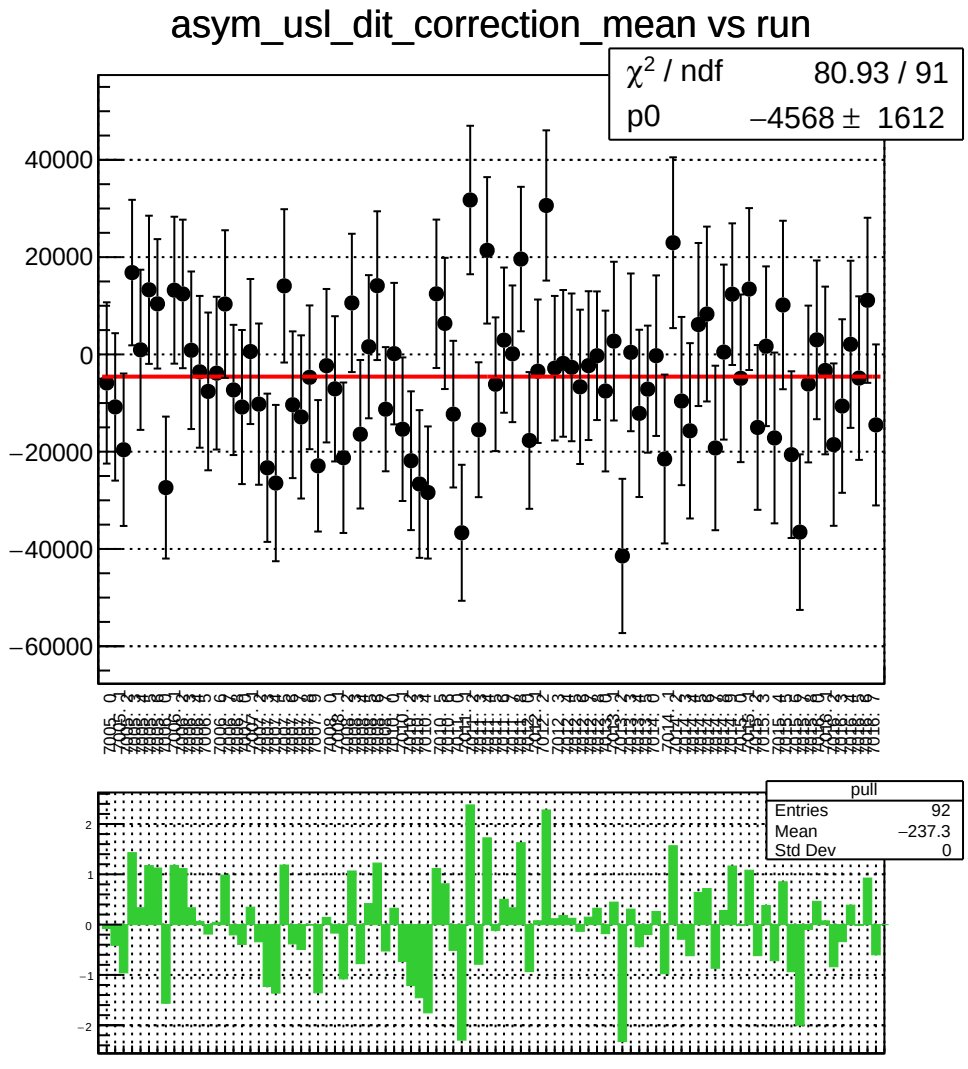

pull1D
Entries 92
Mean 0.002199
Std Dev 0.9356
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

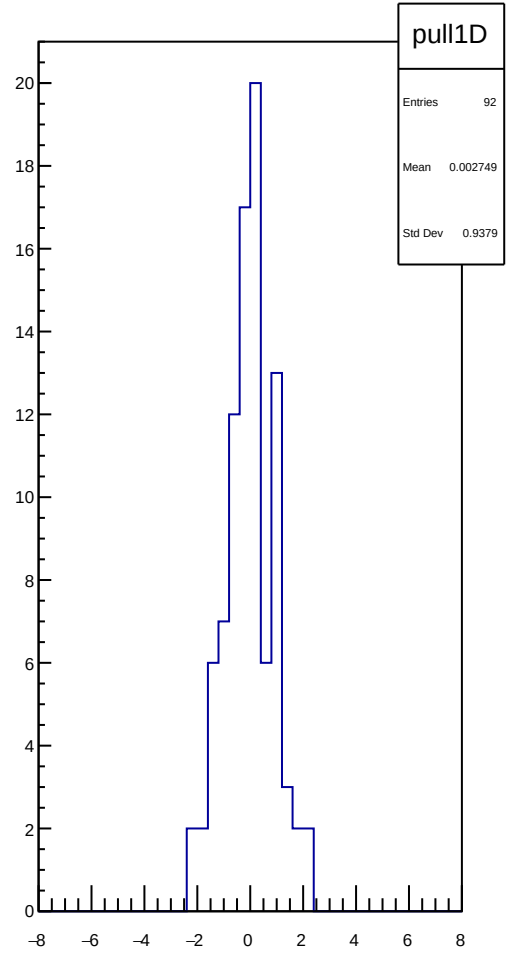

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 8825 / 91
p0 1466 ± 1.122
1700
1600
1500
1400
1300

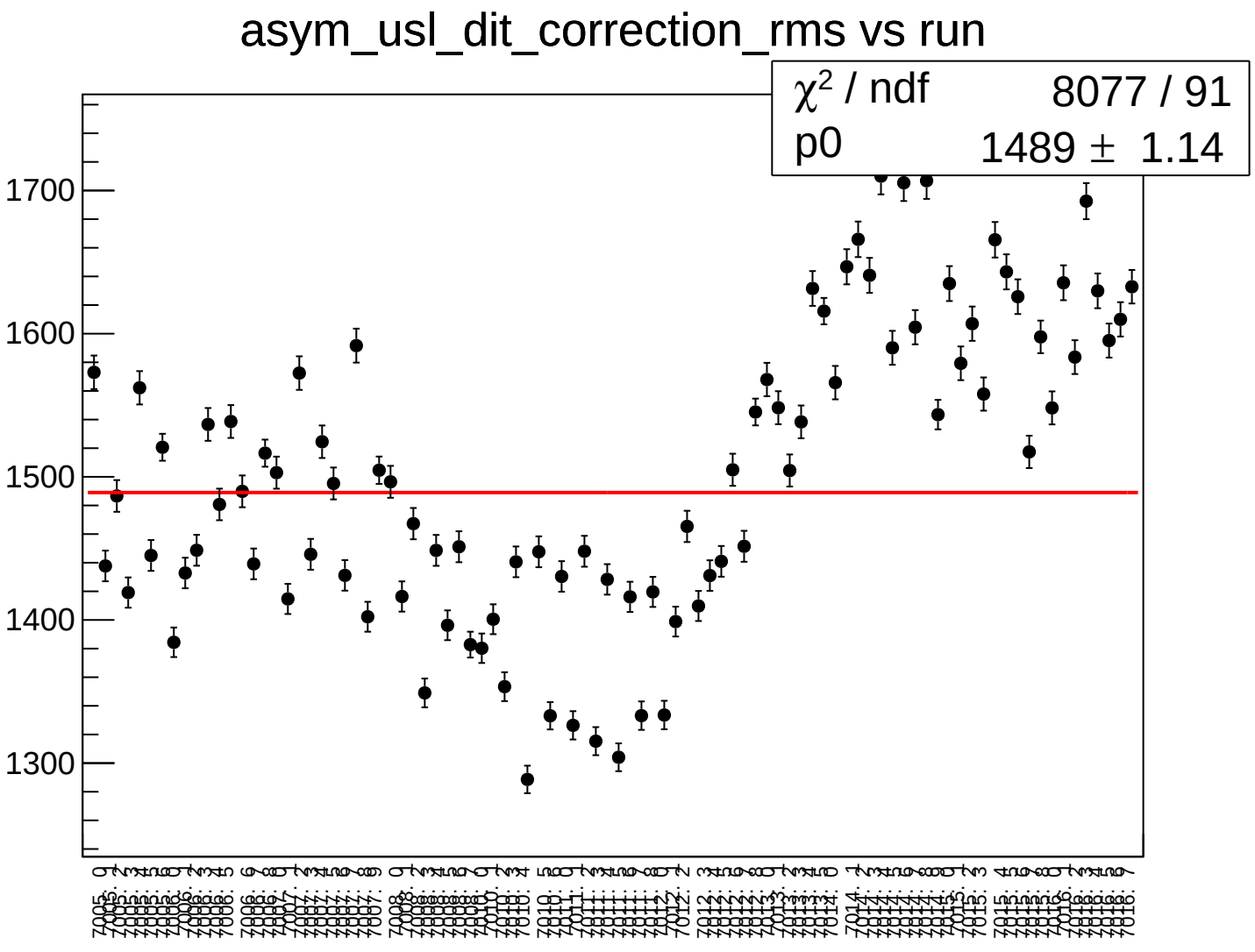

dit_asym_usl_mean vs run
χ² / ndf 86.43 / 91
p0 2851 ± 1203
pull
Entries 92
Mean −137.7
Std Dev 0

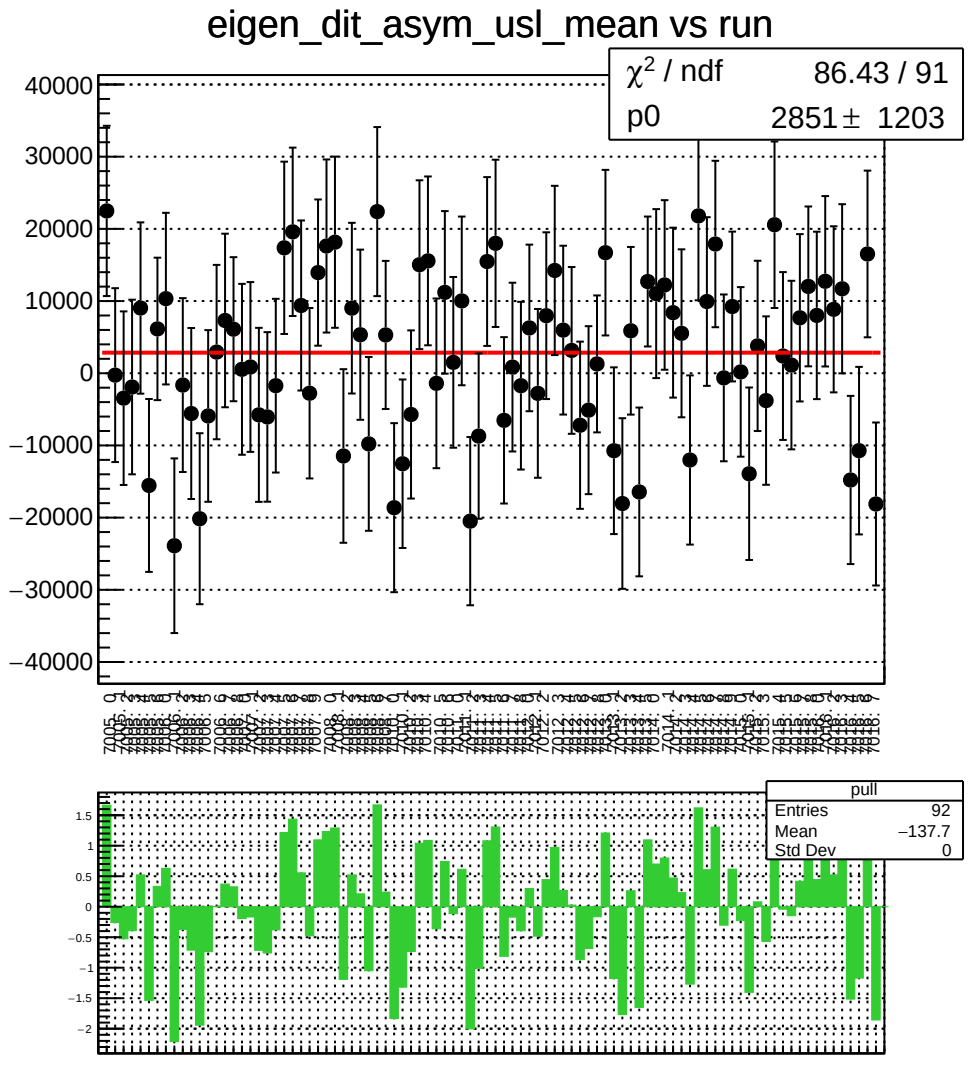

pull1D
Entries 92
Mean −0.01026
Std Dev 0.9692

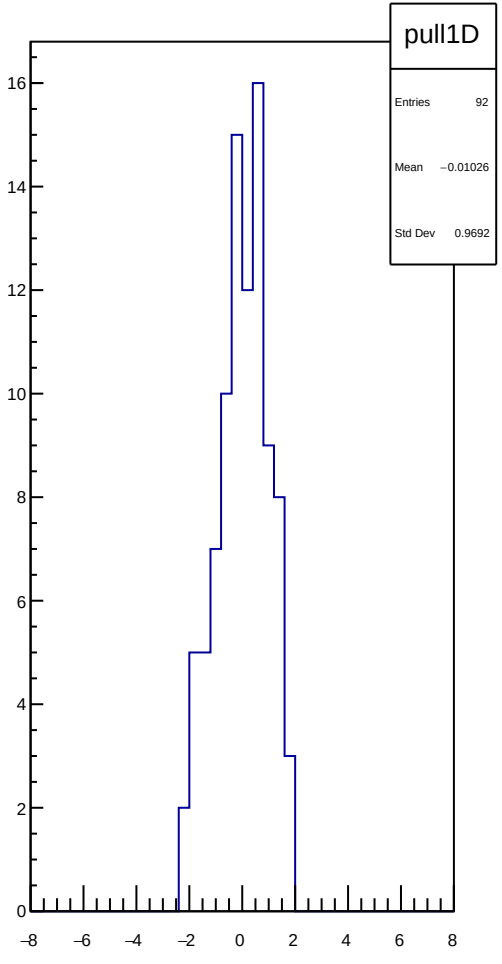

dit_asym_usl_rms vs run
$\chi^2$ / ndf 306 / 91
p0 1114 ± 0.8509
1160
1150
1140
1130
1120
1110
1100
1090
1080

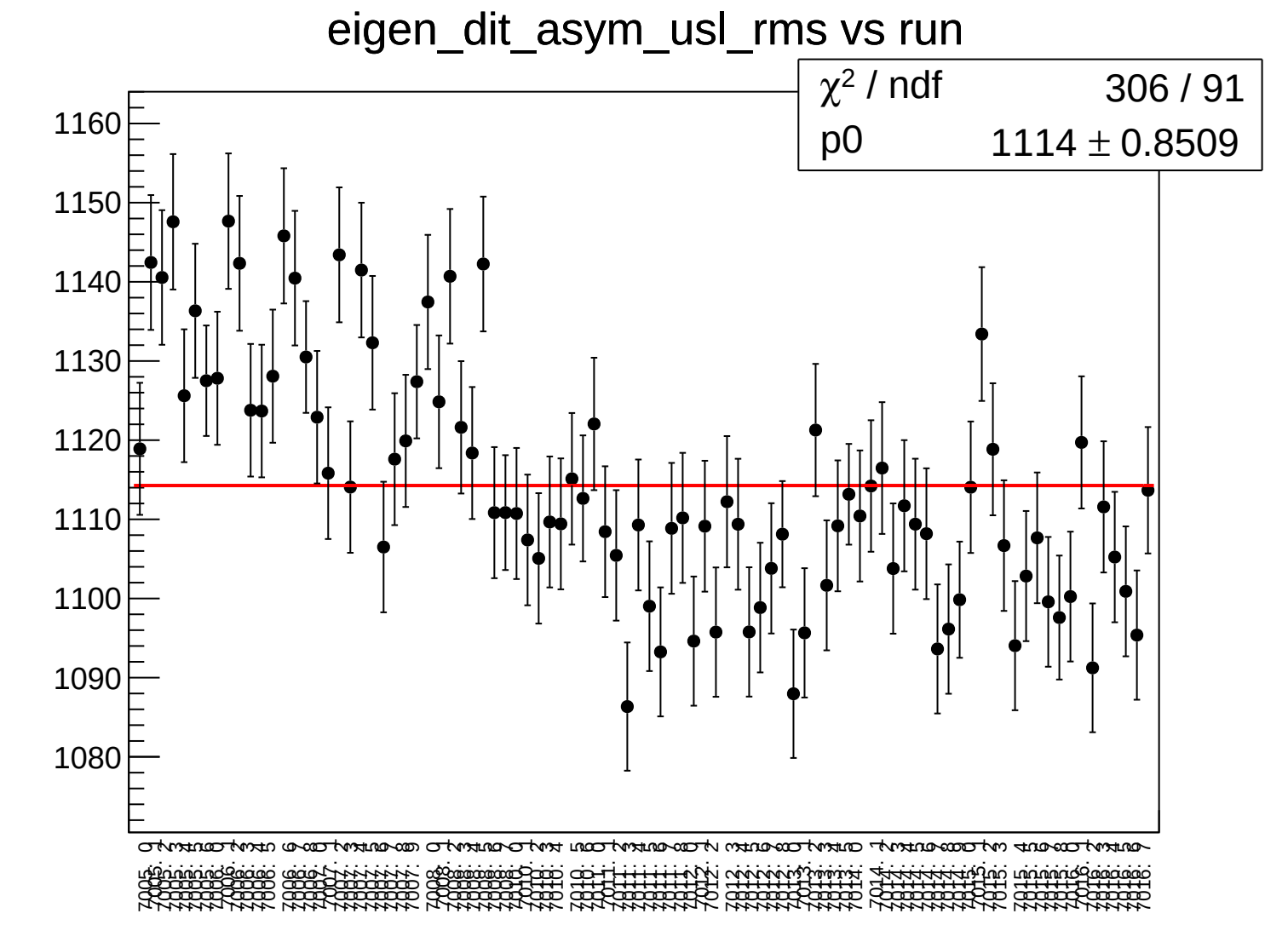

asym_usl_dit_correction_mean vs run
χ² / ndf 80.93 / 91
p0 −4568 ± 1612
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −237.3
Std Dev 0
2
1
0
−1
−2

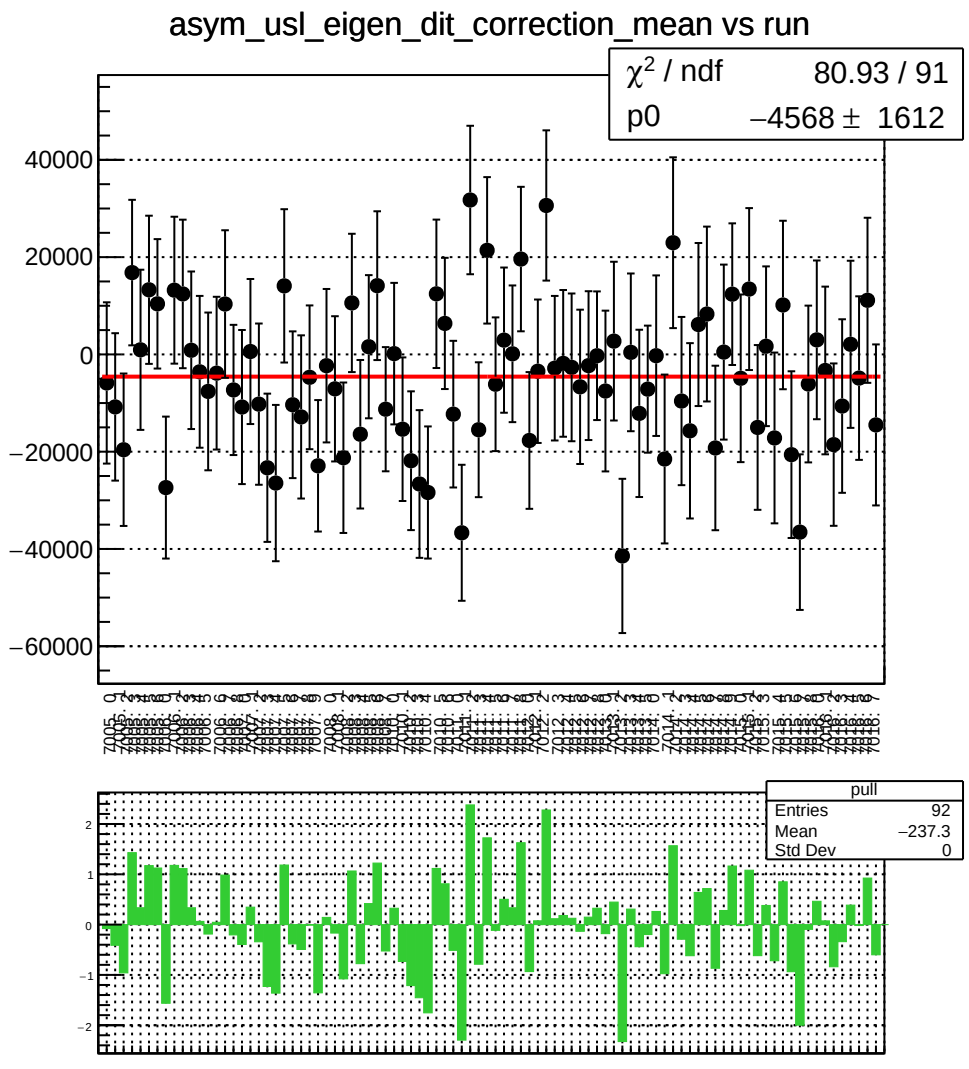

pull1D
Entries 92
Mean 0.002749
Std Dev 0.9379
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

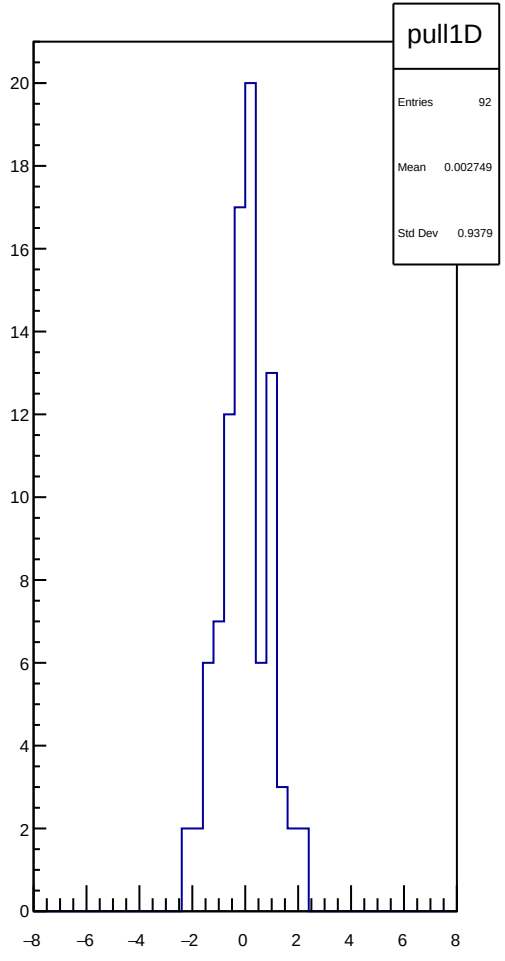

asym_usl_dit_correction_rms vs run
χ² / ndf 8077 / 91
p0 1489 ± 1.14
1700
1600
1500
1400
1300

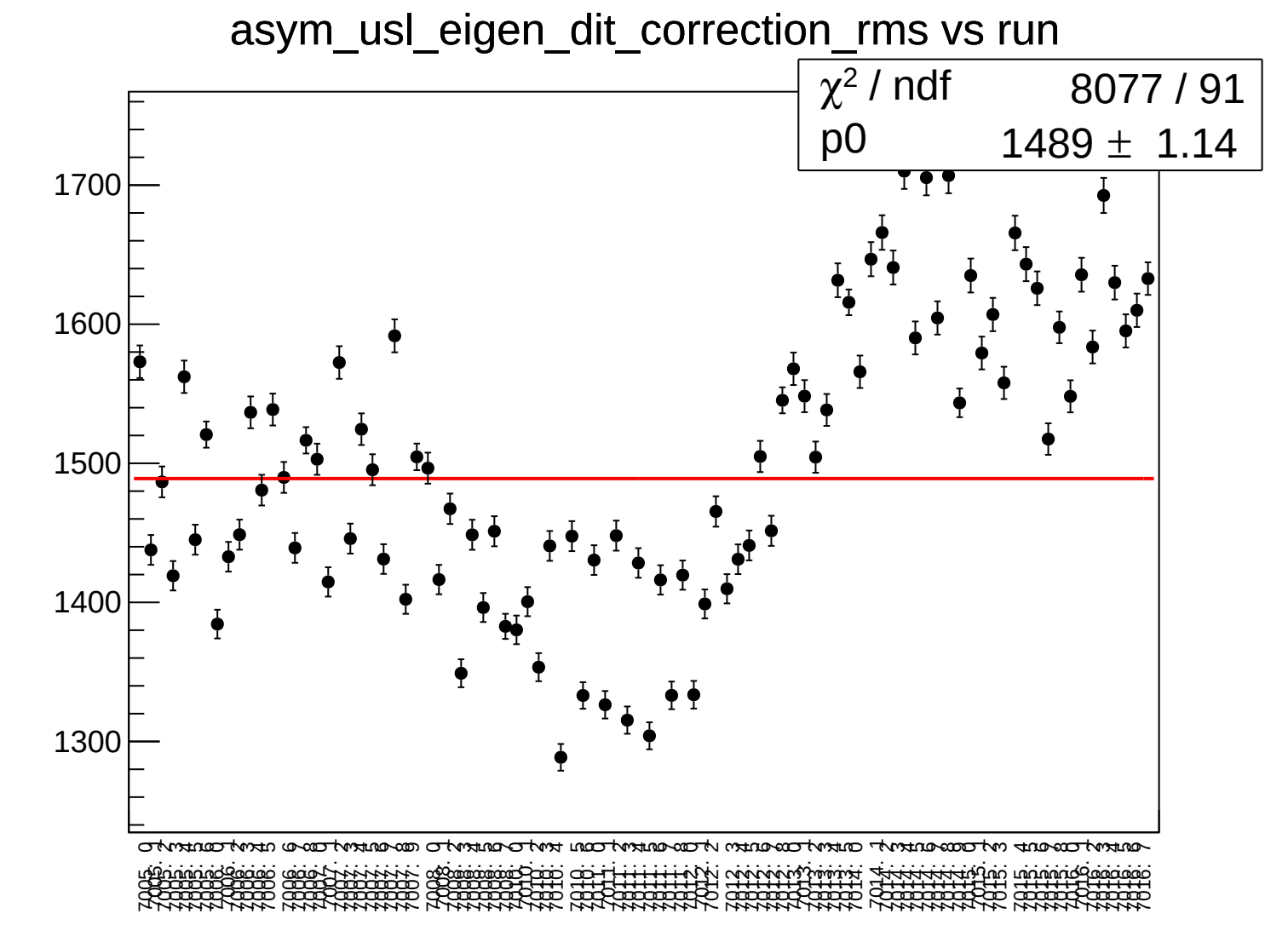

eigen_dit_asym_usl_mean vs run
χ² / ndf 86.43 / 91
p0 2851 ± 1203
pull
Entries 92
Mean −137.7
Std Dev 0

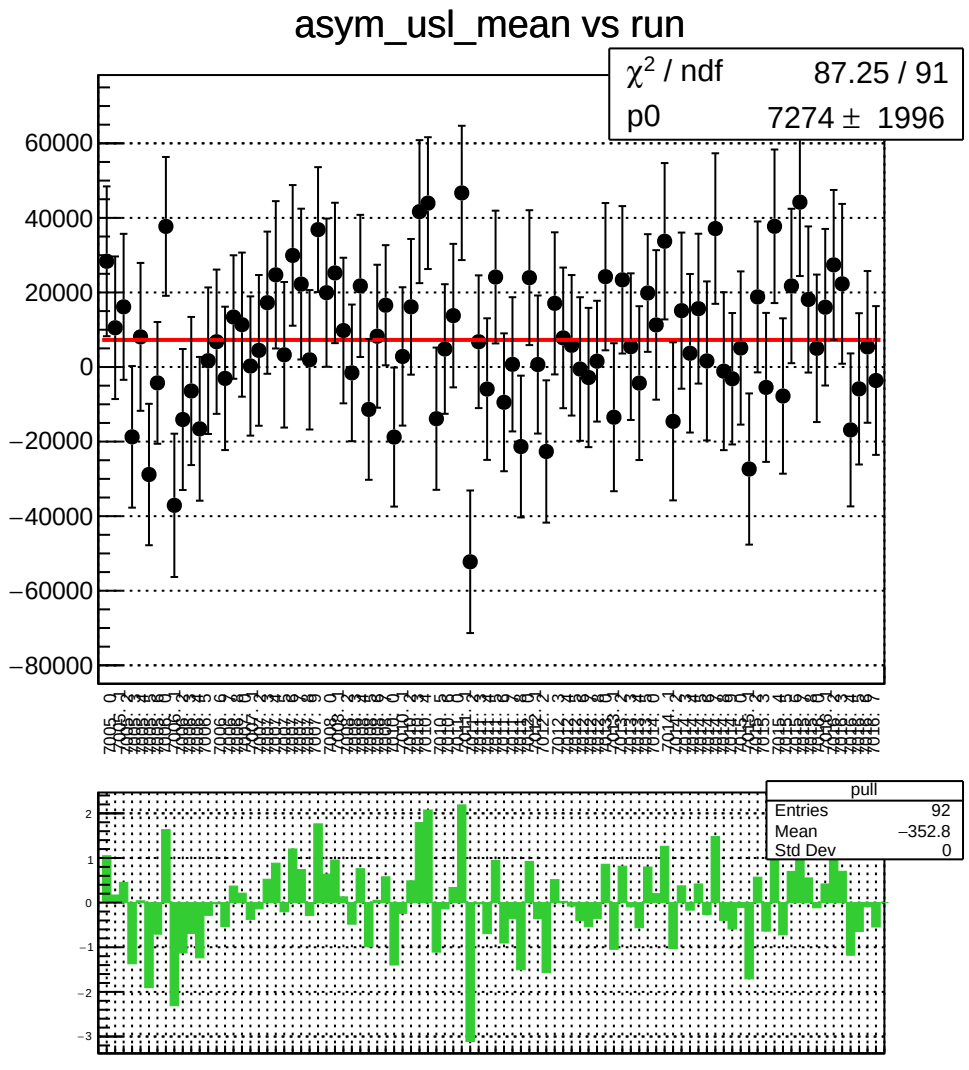

pull1D
Entries 92
Mean −0.01026
Std Dev 0.9692

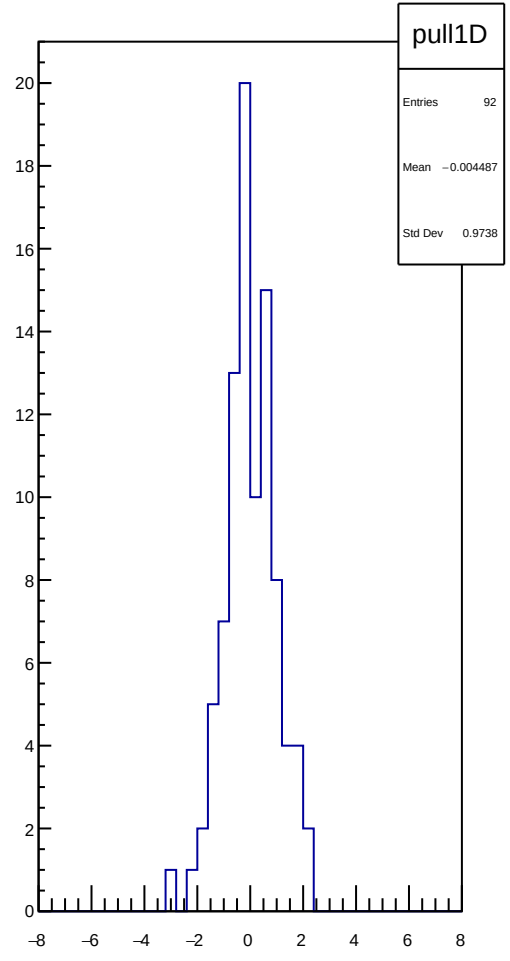

eigen_dit_asym_usl_rms vs run
χ² / ndf 306 / 91
p0 1114 ± 0.8509
1160
1150
1140
1130
1120
1110
1100
1090
1080

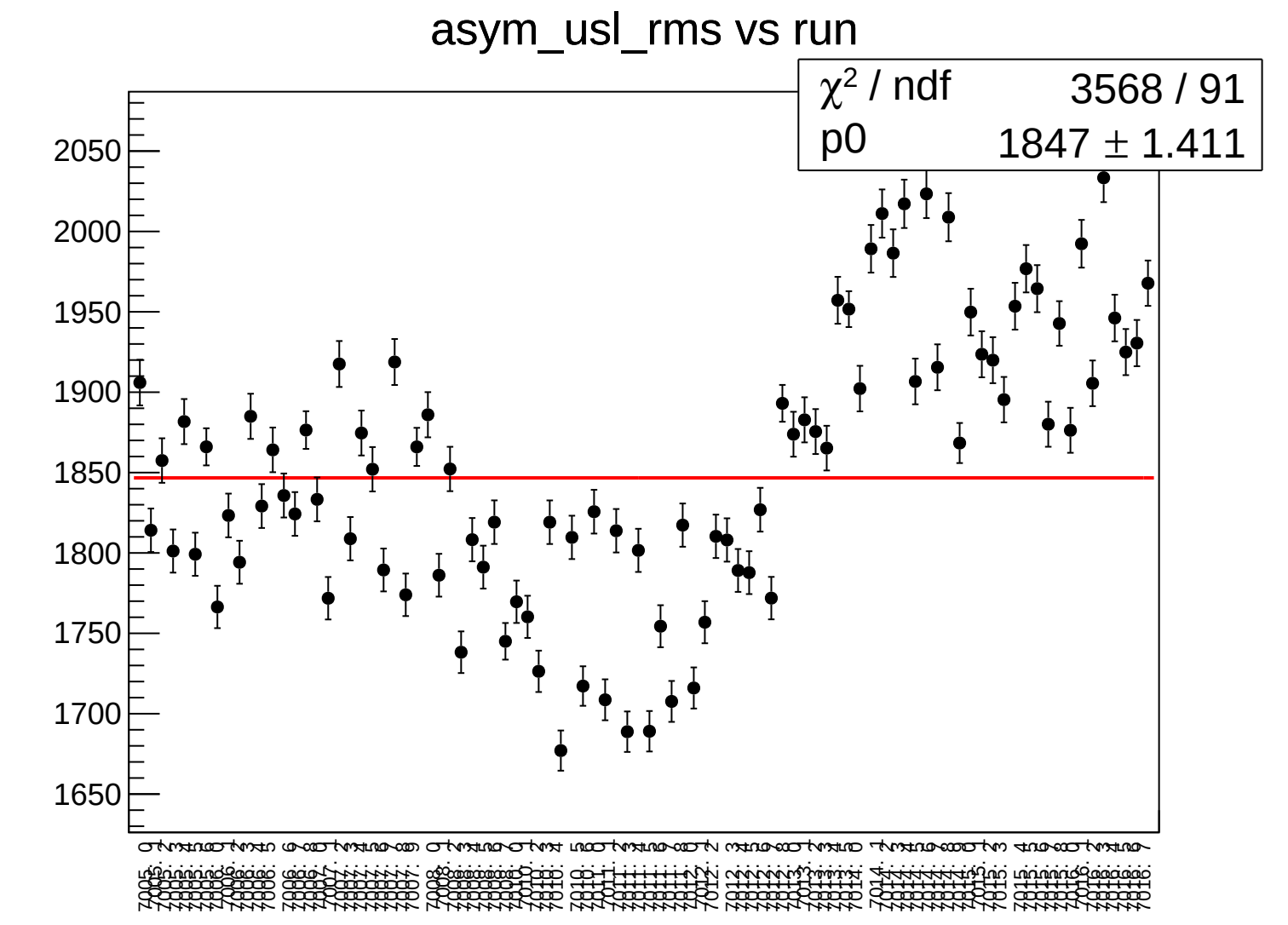

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 80.93 / 91
p0 −4568 ± 1612
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −237.3
Std Dev 0
2
1
0
−1
−2

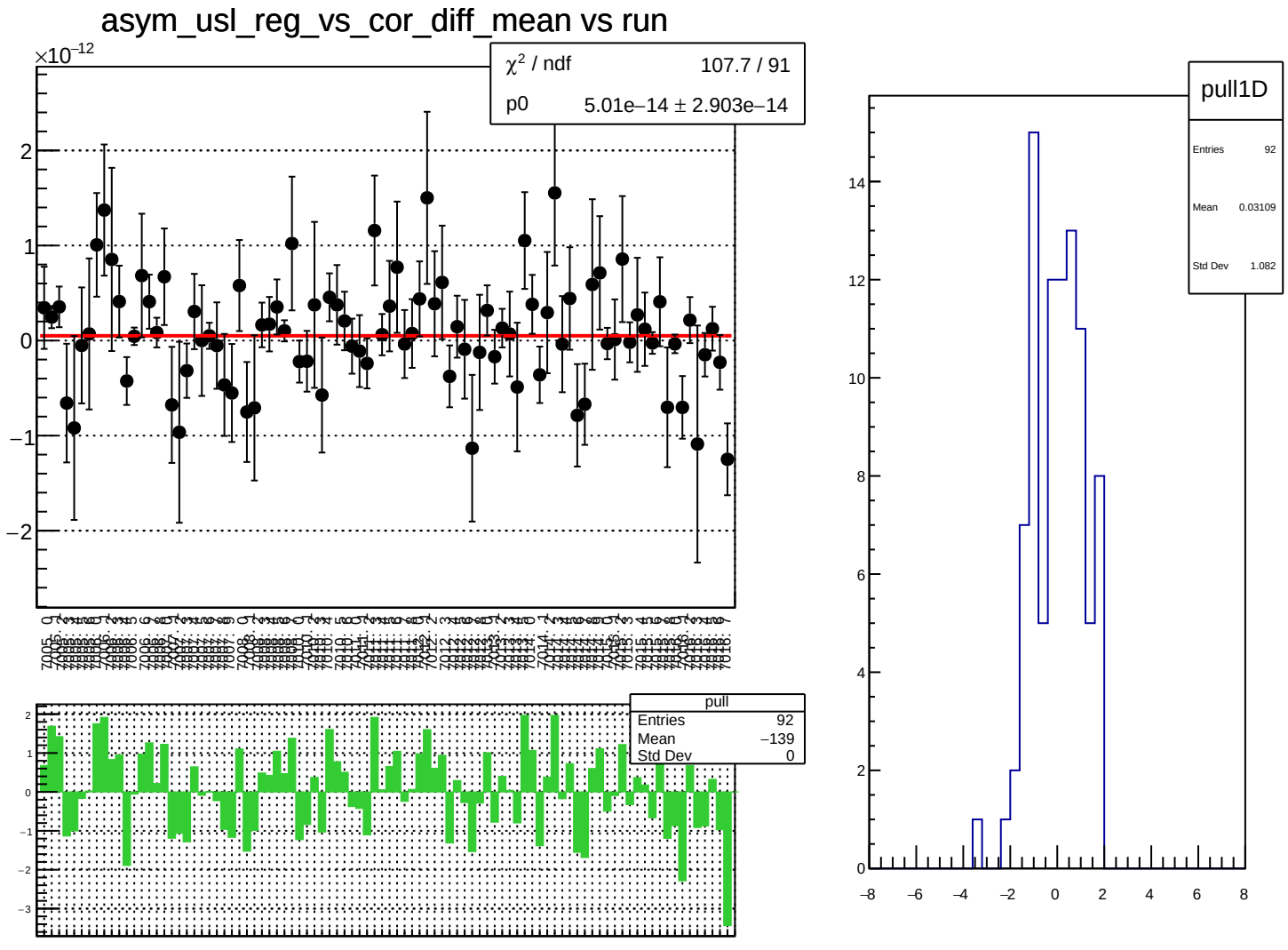

pull1D
Entries 92
Mean 0.002749
Std Dev 0.9379
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

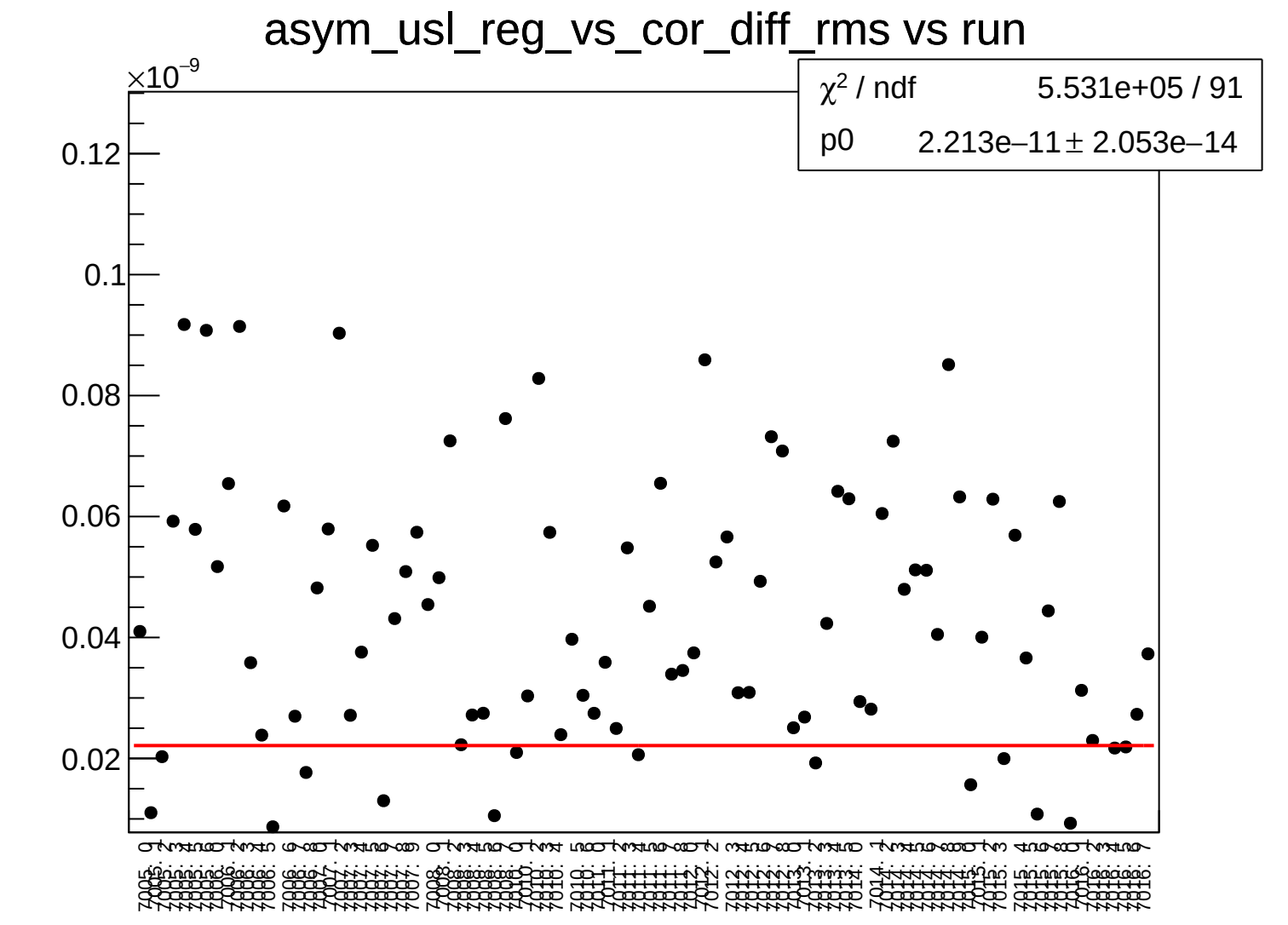

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 8077 / 91
p0 1489 ± 1.14
1700
1600
1500
1400
1300

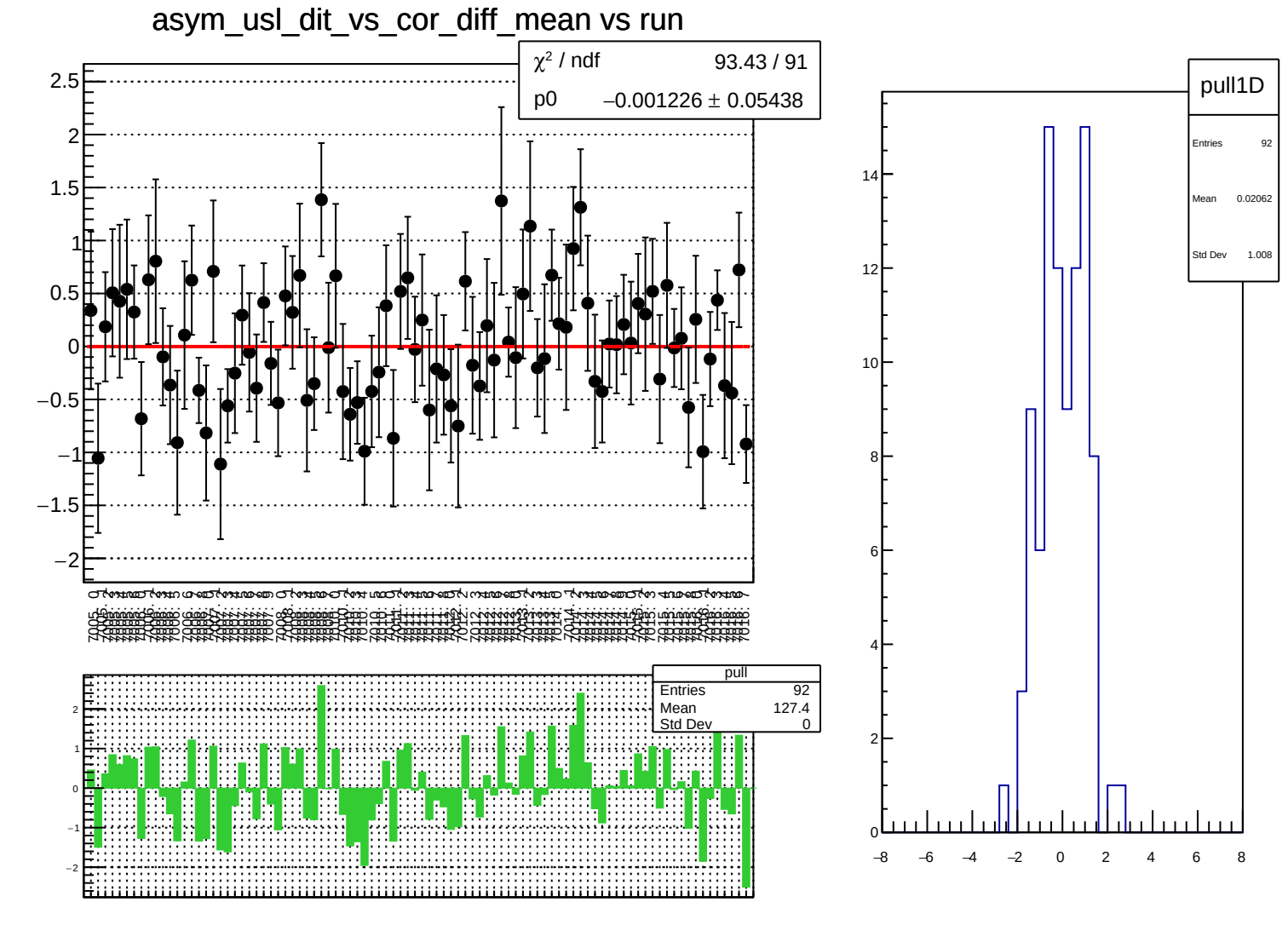

asym_usl_mean vs run
χ² / ndf 87.25 / 91
p0 7274 ± 1996
pull
Entries 92
Mean −352.8
Std Dev 0

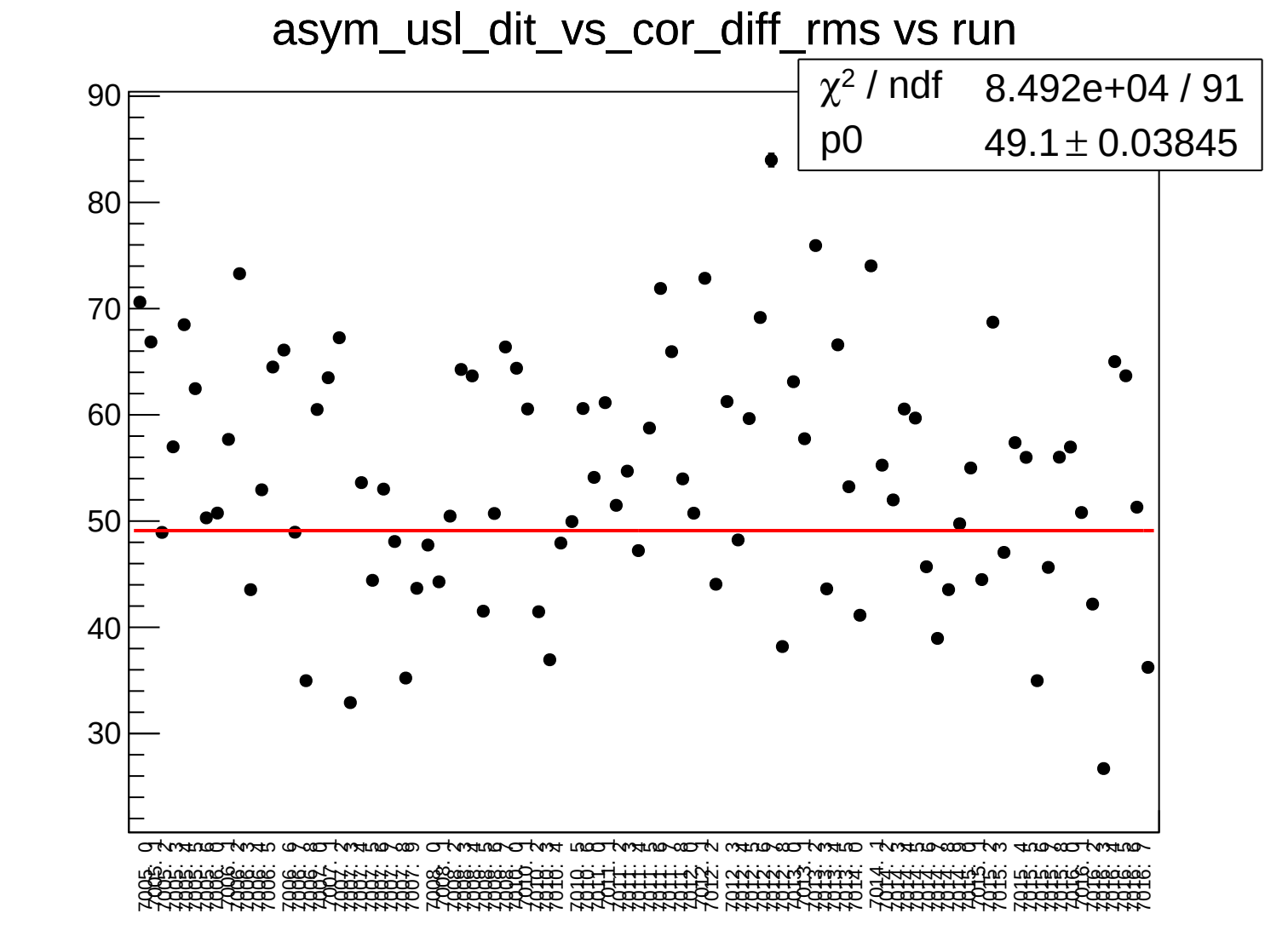

pull1D
Entries 92
Mean −0.004487
Std Dev 0.9738

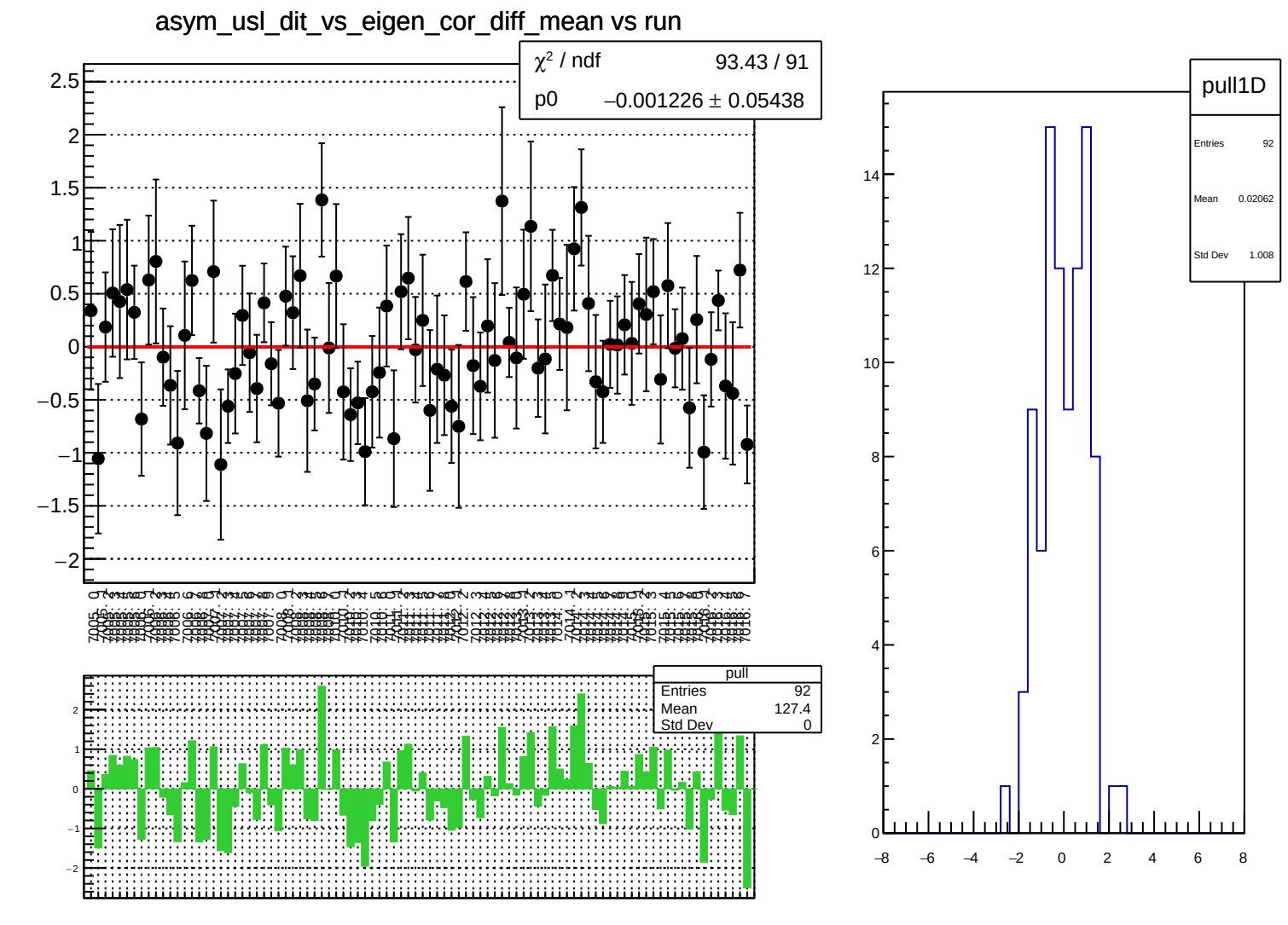

asym_usl_rms vs run
χ² / ndf 3568 / 91
p0 1847 ± 1.411
2050
2000
1950
1900
1850
1800
1750
1700
1650

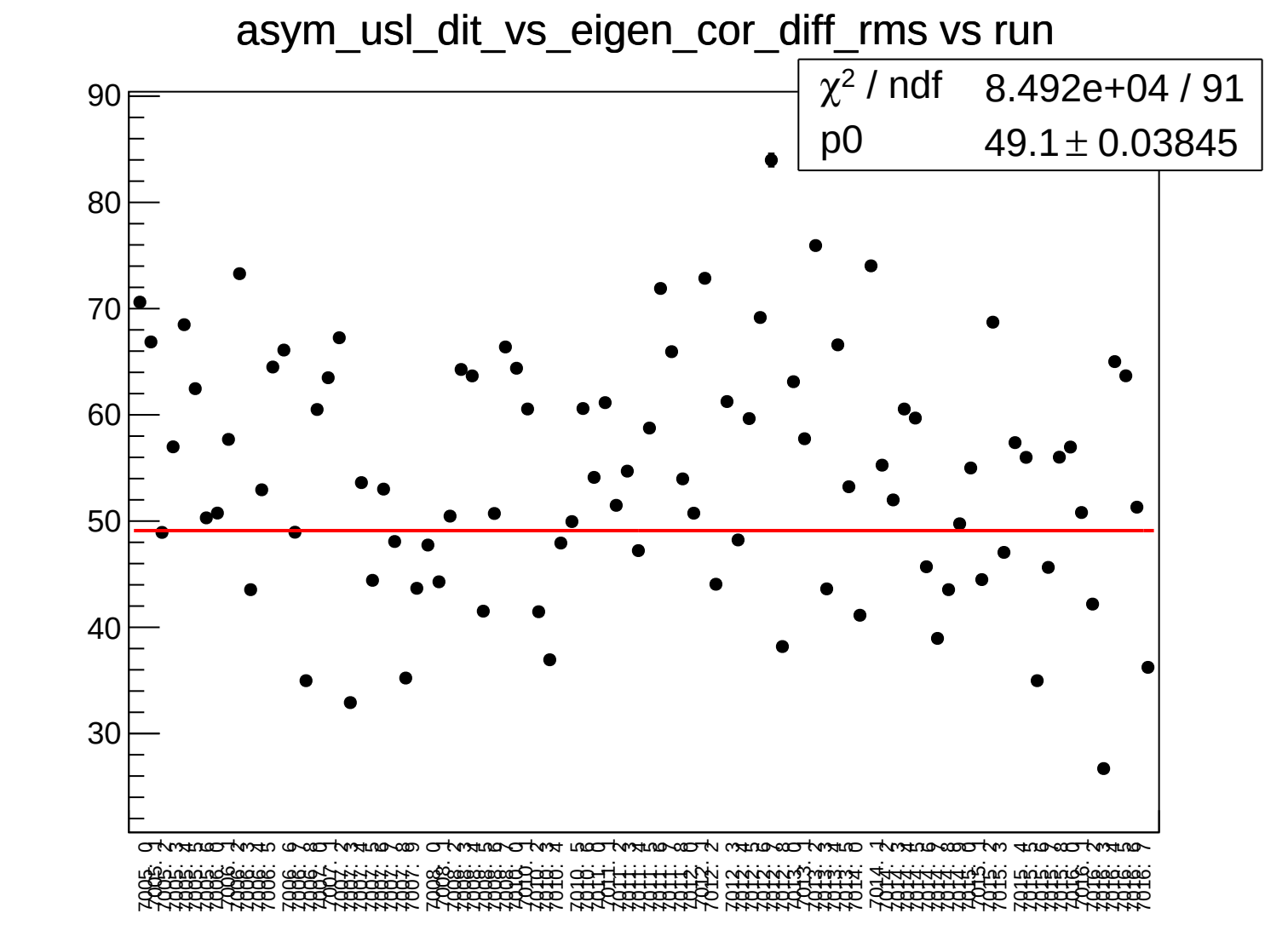

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.7 / 91
p0 5.01e−14 ± 2.903e−14
pull
Entries 92
Mean −139
Std Dev 0
pull1D
Entries 92
Mean 0.03109
Std Dev 1.082

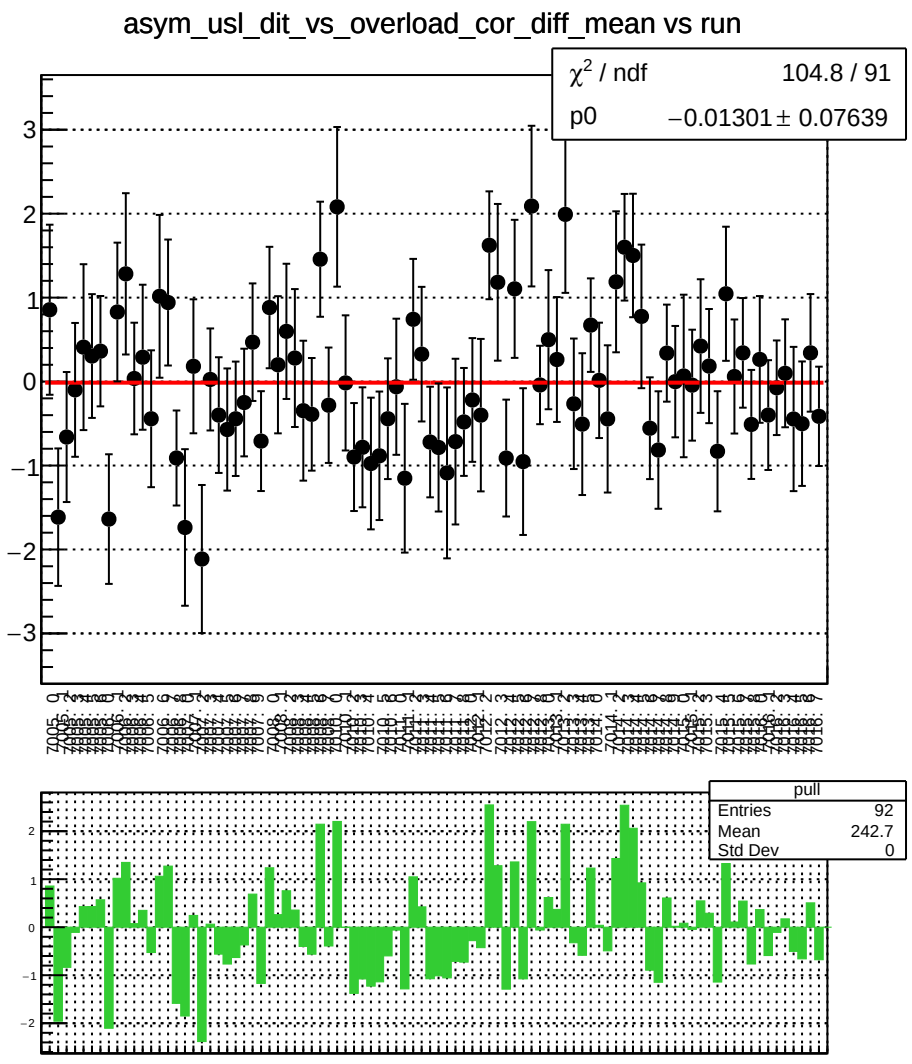

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.531e+05 / 91
p0 2.213e−11 ± 2.053e−14
0.12
0.1
0.08
0.06
0.04
0.02

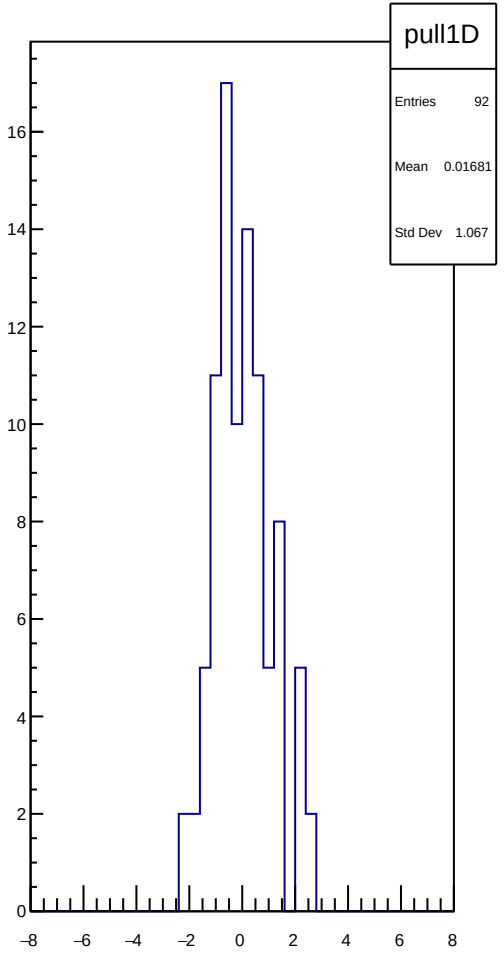

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 93.43 / 91
p0 −0.001226 ± 0.05438
pull
Entries 92
Mean 127.4
Std Dev 0
pull1D
Entries 92
Mean 0.02062
Std Dev 1.008

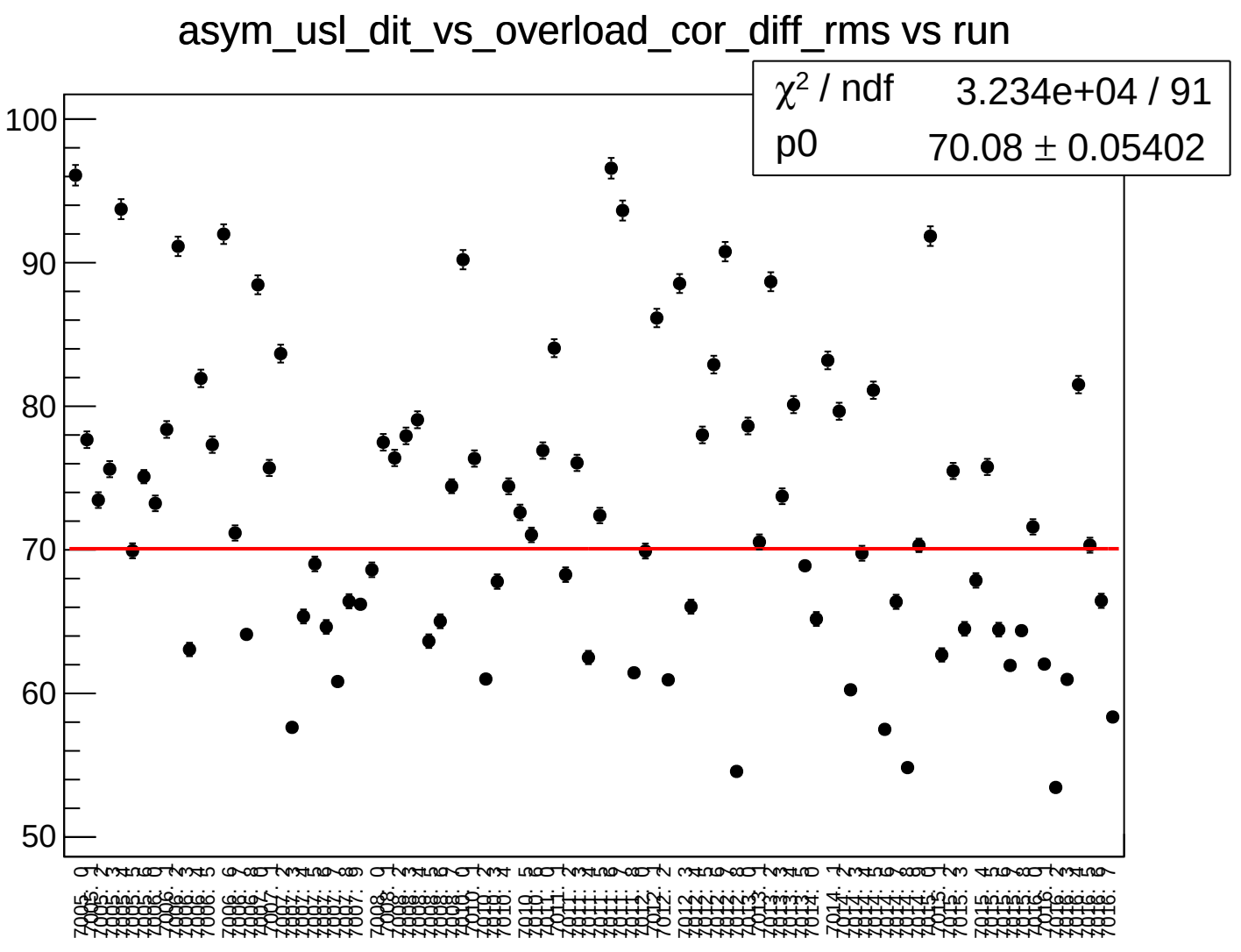

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 8.492e+04 / 91
p0 49.1 ± 0.03845
90
80
70
60
50
40
30

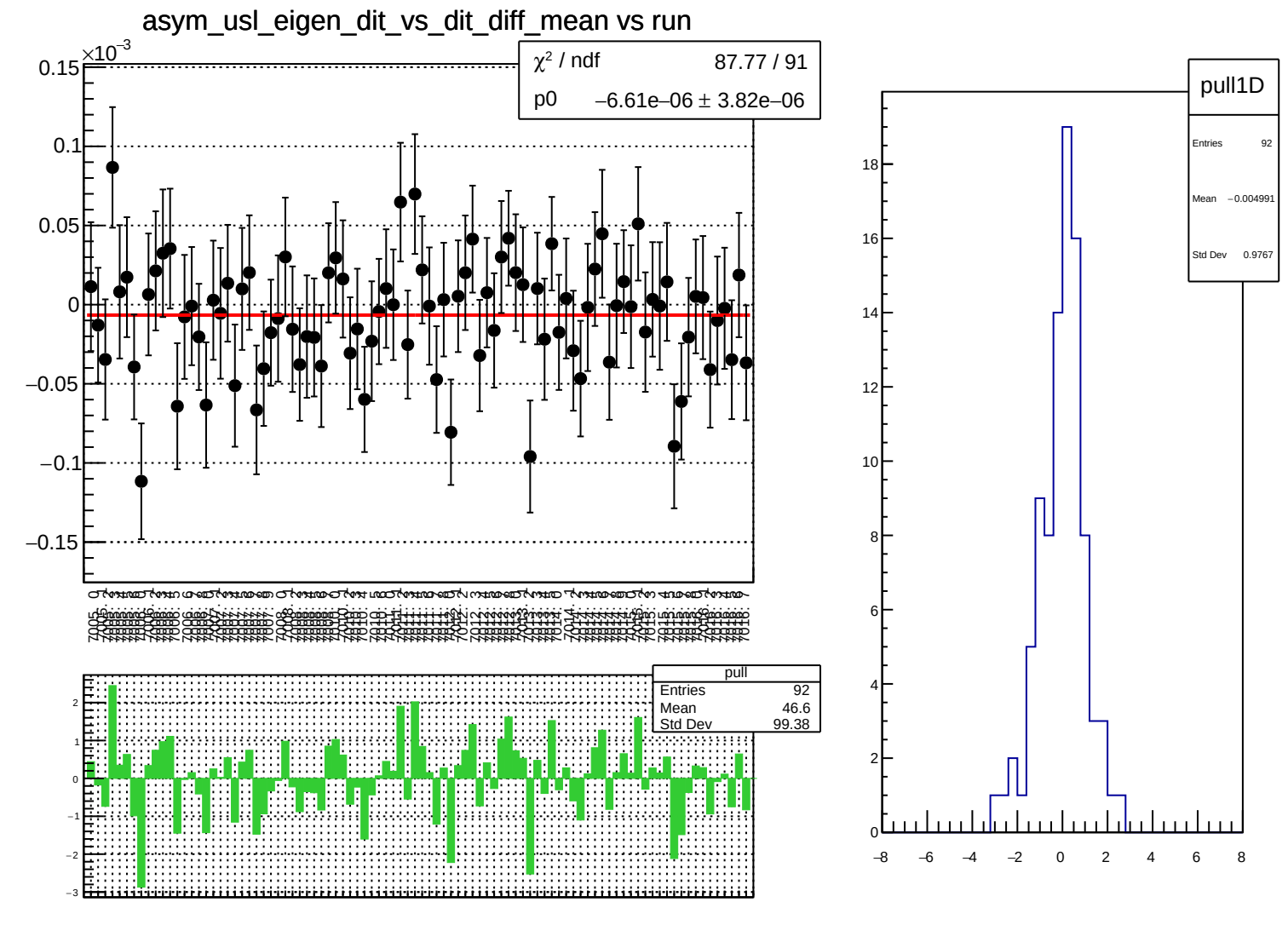

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.43 / 91
p0 −0.001226 ± 0.05438
pull
Entries 92
Mean 127.4
Std Dev 0
pull1D
Entries 92
Mean 0.02062
Std Dev 1.008

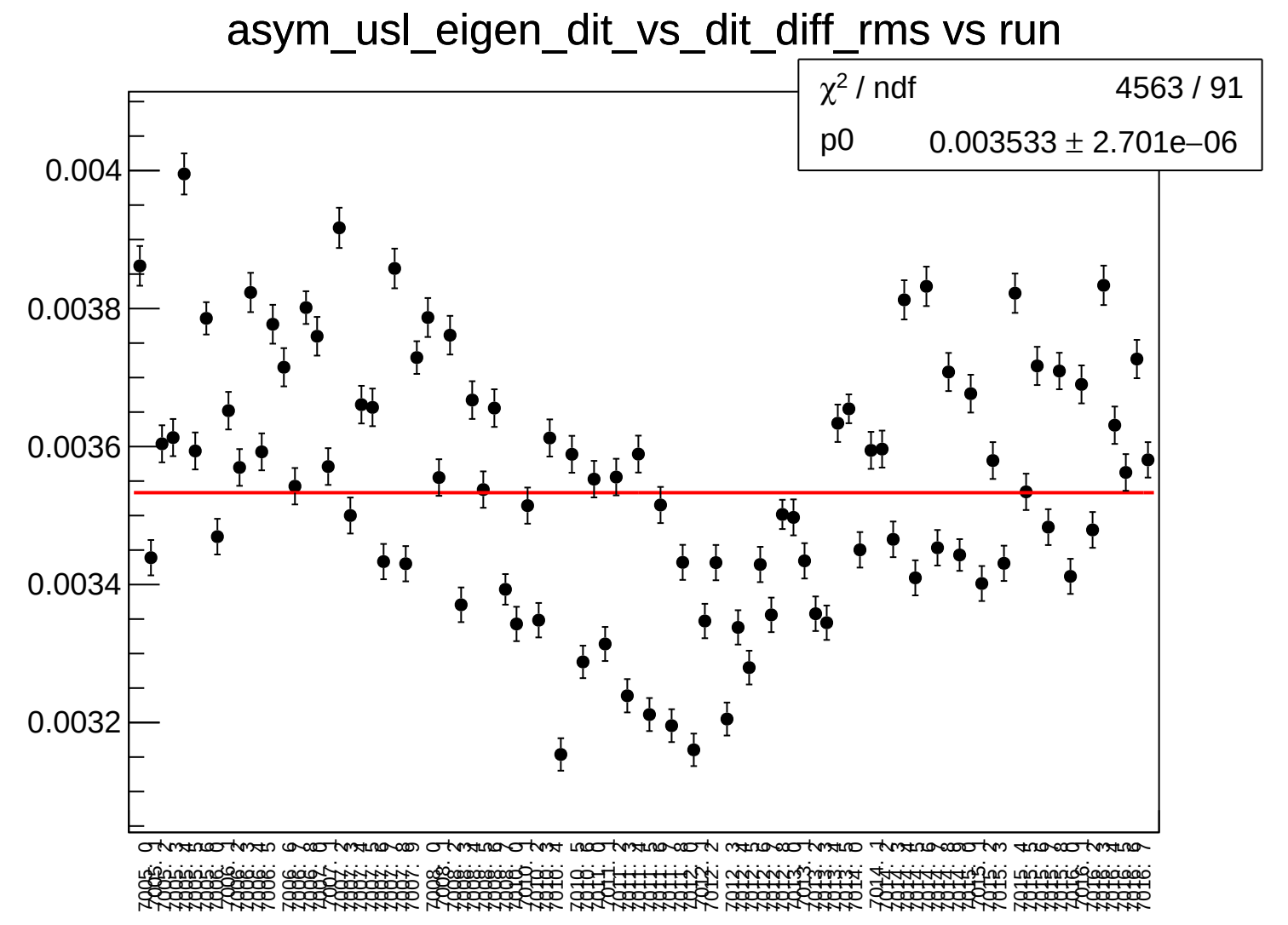

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.492e+04 / 91
p0 49.1 ± 0.03845
90
80
70
60
50
40
30

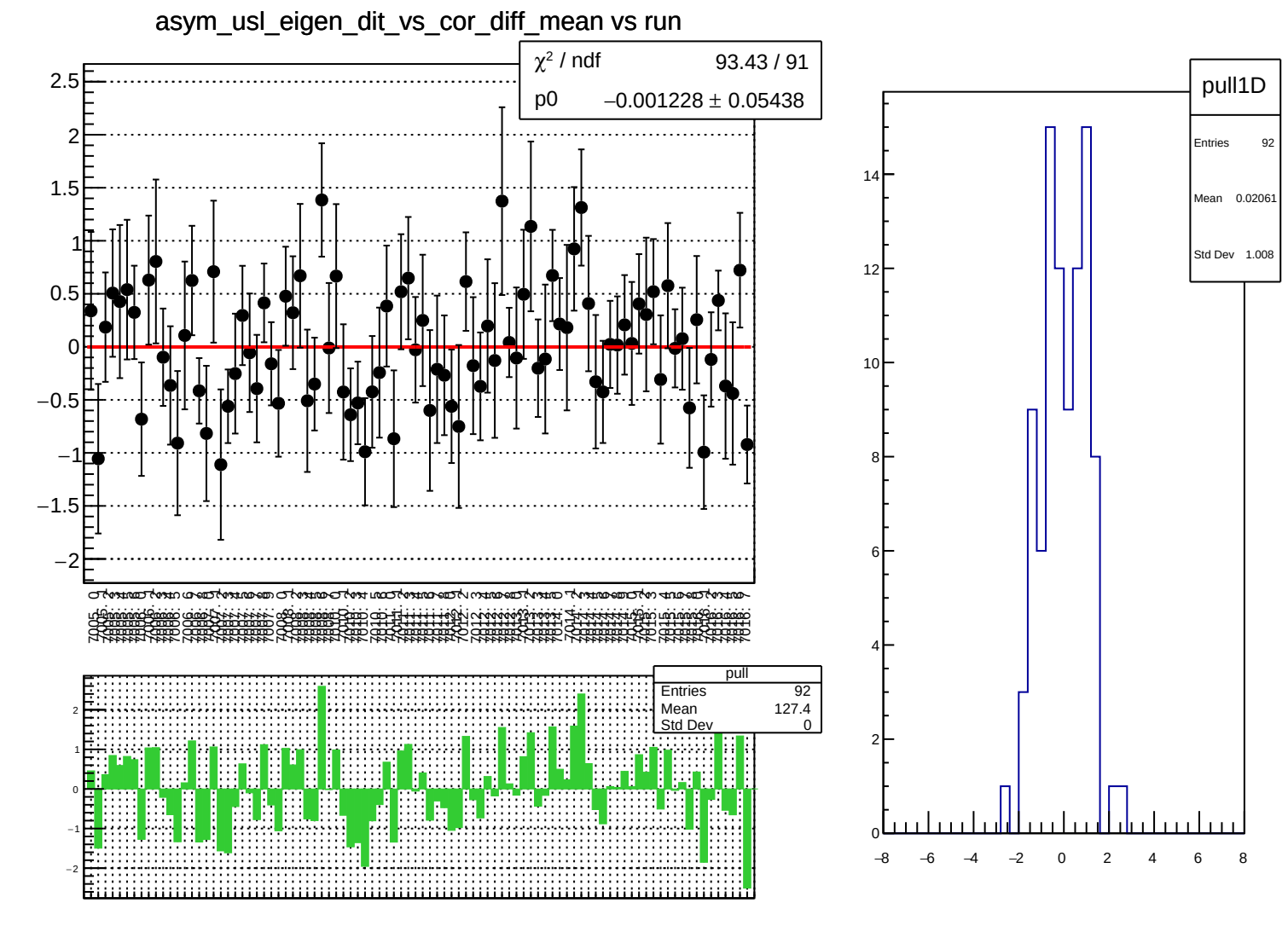

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 104.8 / 91
p0 −0.01301 ± 0.07639
pull
Entries 92
Mean 242.7
Std Dev 0

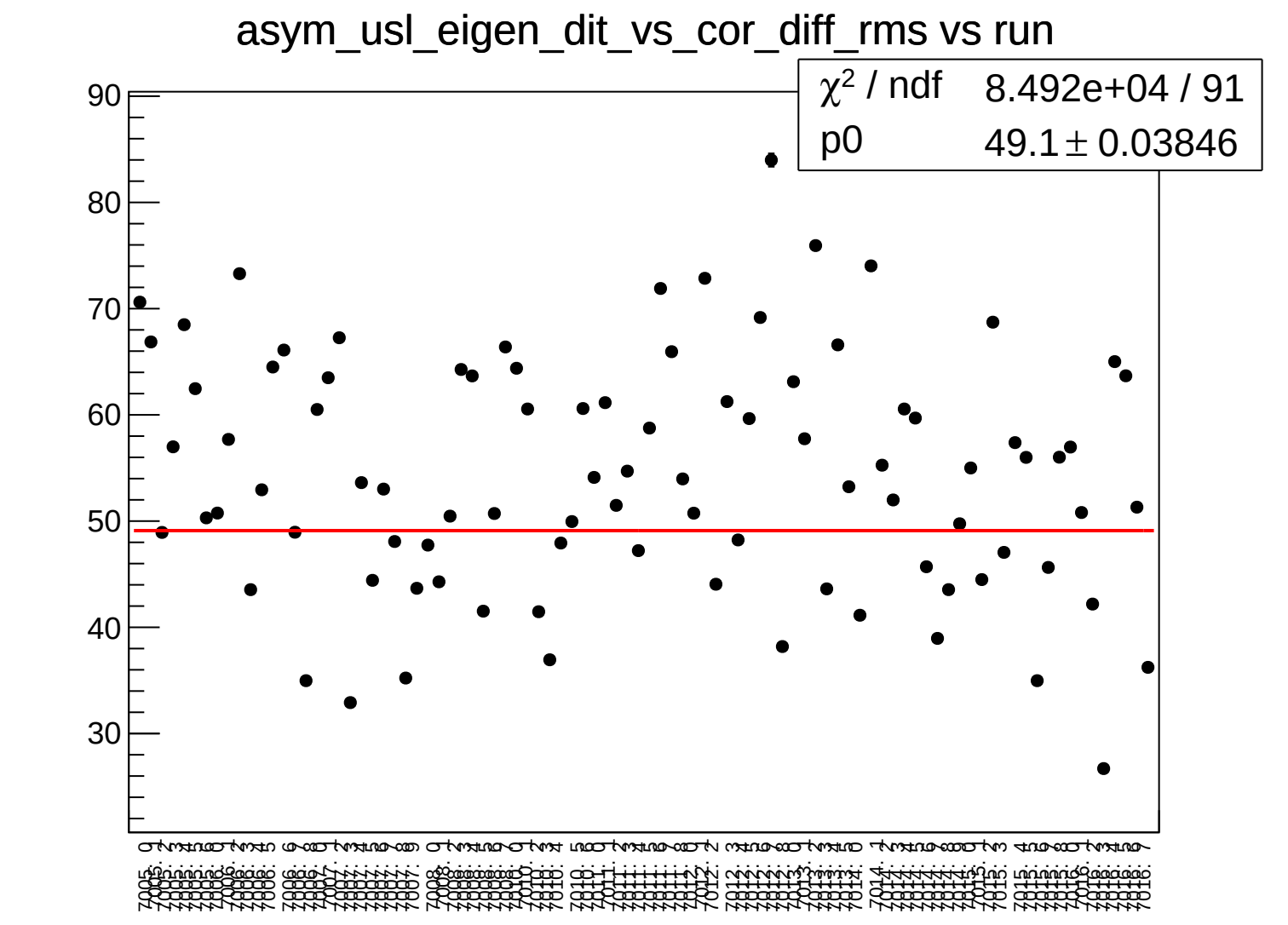

pull1D
Entries 92
Mean 0.01681
Std Dev 1.067

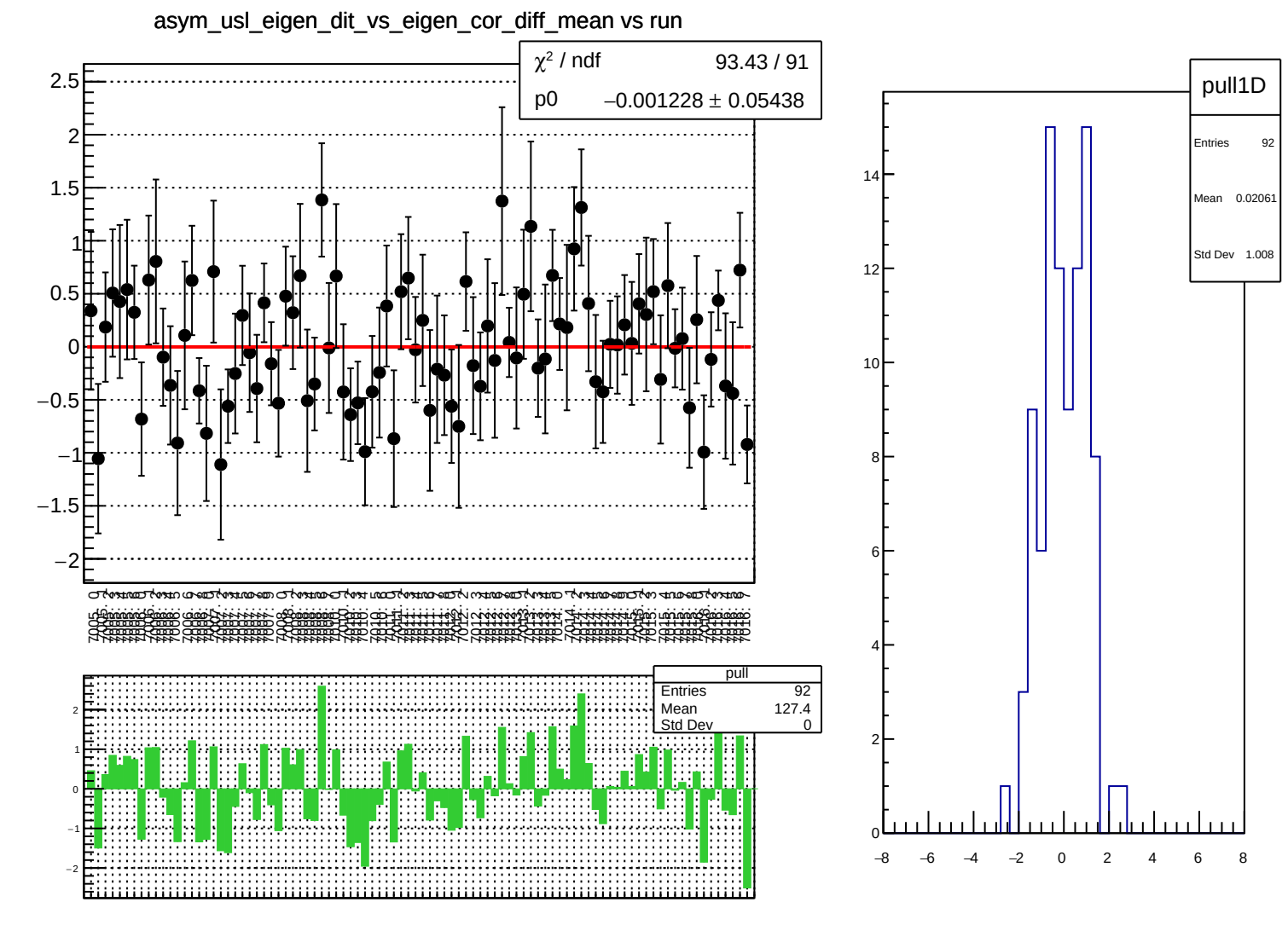

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.234e+04 / 91
p0 70.08 ± 0.05402
100
90
80
70
60
50

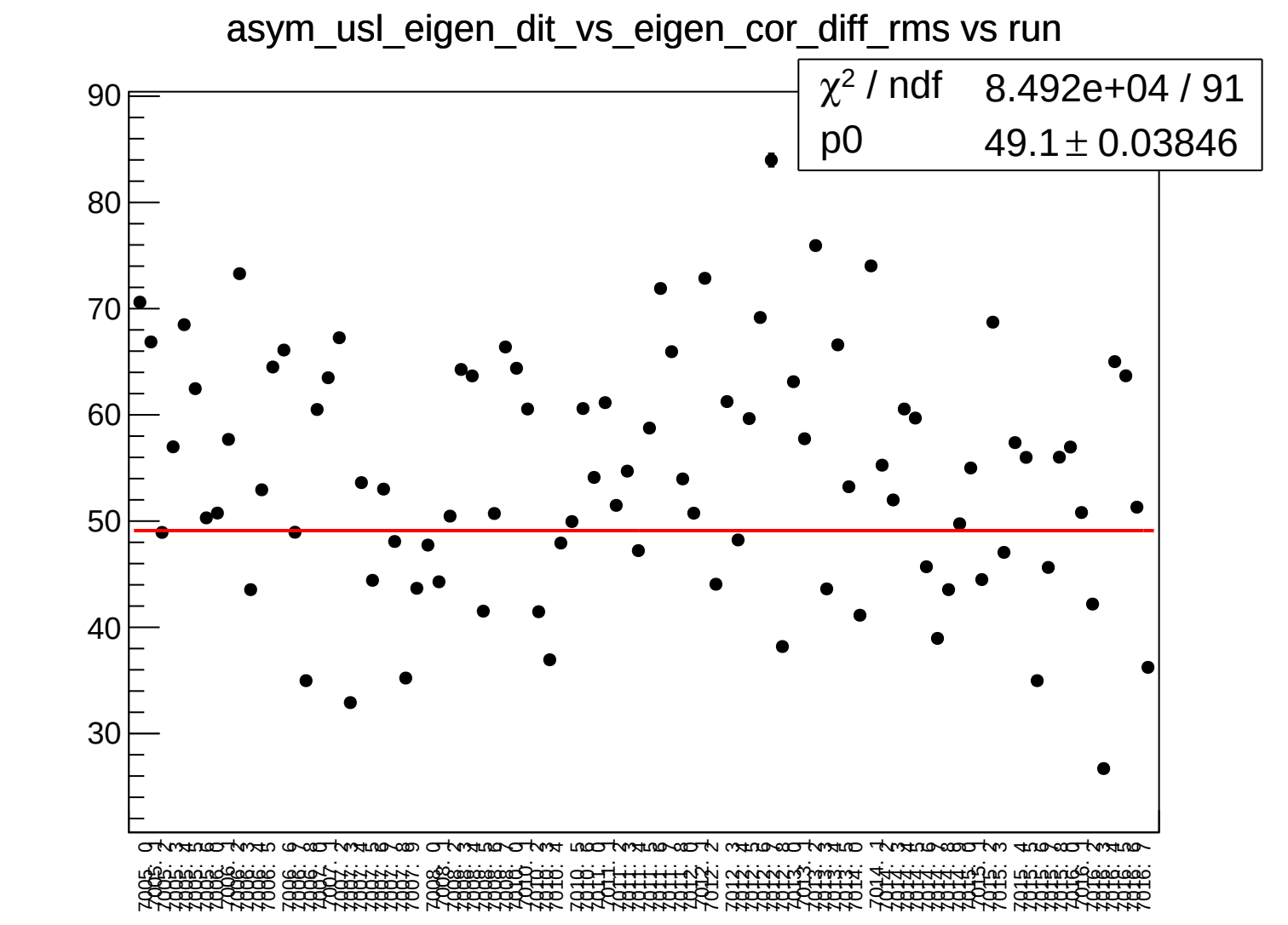

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.77 / 91
p0 −6.61e−06 ± 3.82e−06
pull
Entries 92
Mean 46.6
Std Dev 99.38
pull1D
Entries 92
Mean −0.004991
Std Dev 0.9767

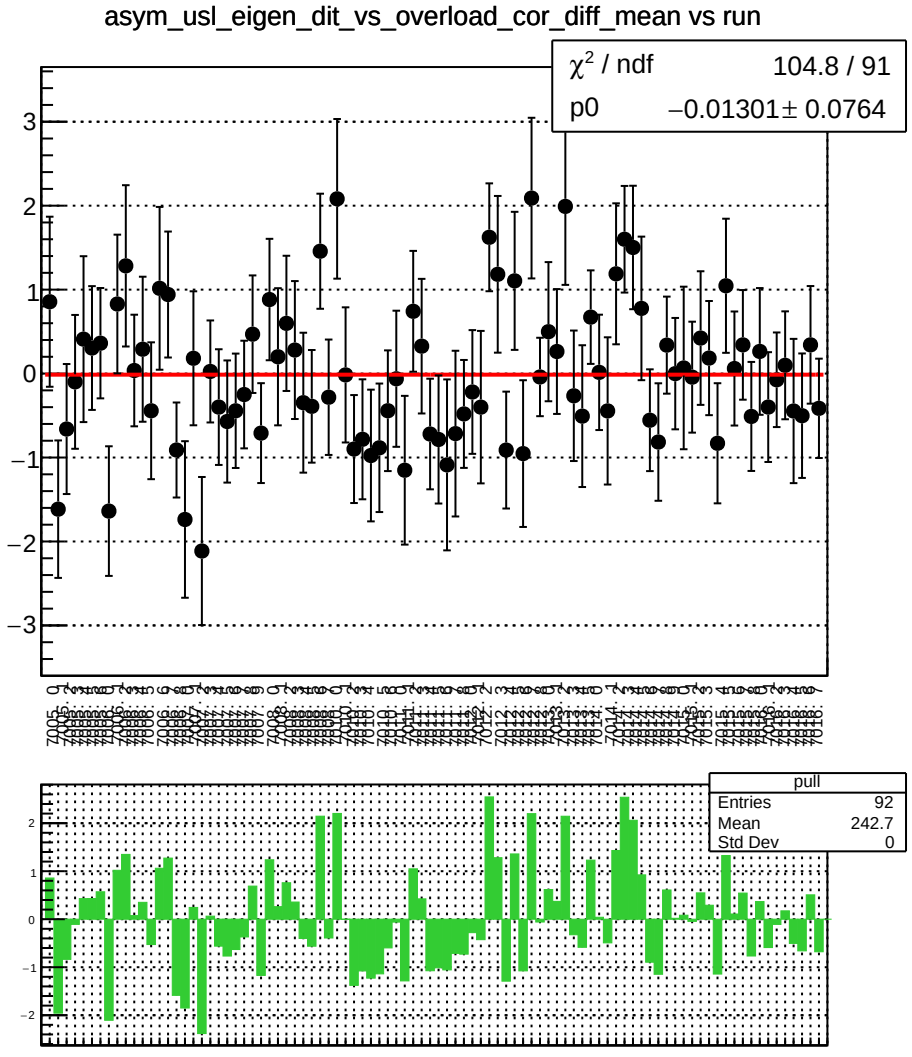

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4563 / 91
p0 0.003533 ± 2.701e−06
0.004
0.0038
0.0036
0.0034
0.0032

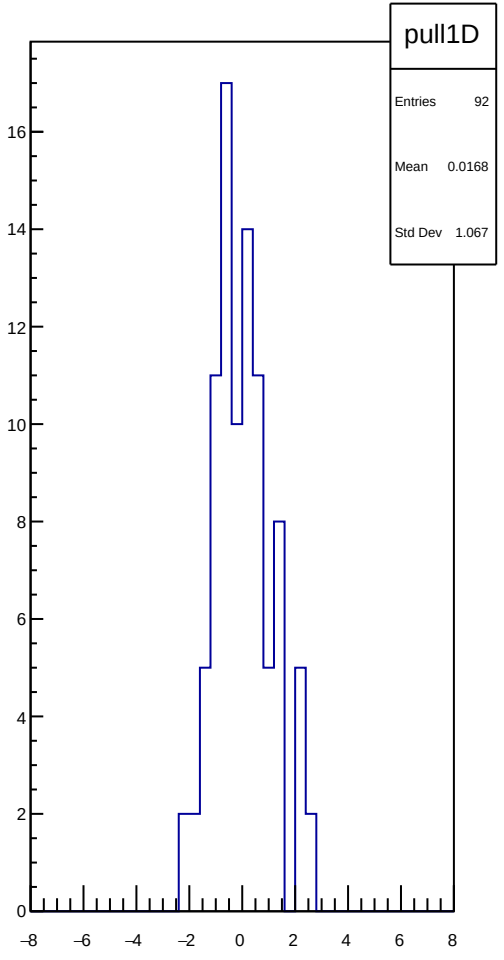

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.43 / 91
p0 −0.001228 ± 0.05438
pull
Entries 92
Mean 127.4
Std Dev 0
pull1D
Entries 92
Mean 0.02061
Std Dev 1.008

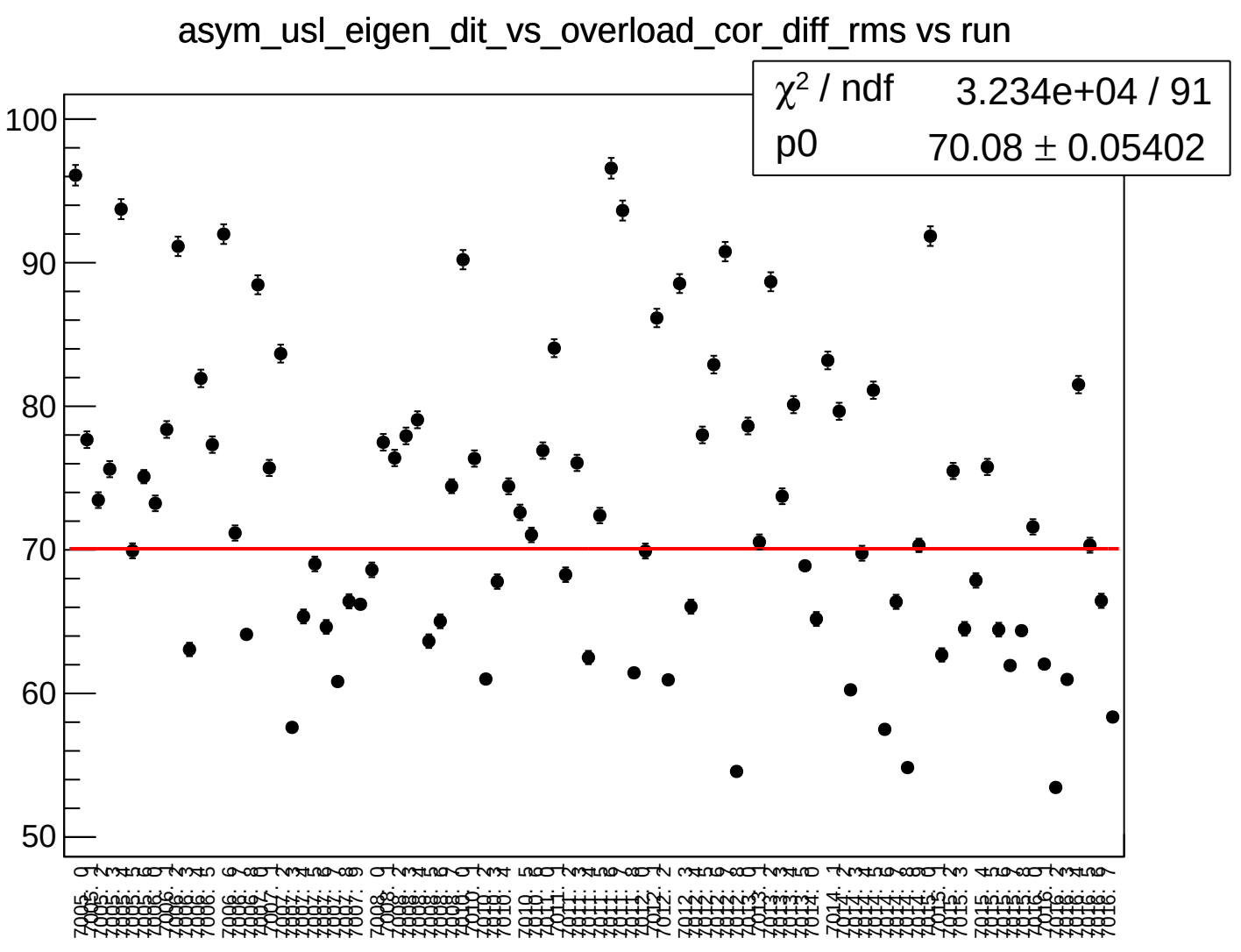

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.492e+04 / 91
p0 49.1 ± 0.03846
90
80
70
60
50
40
30

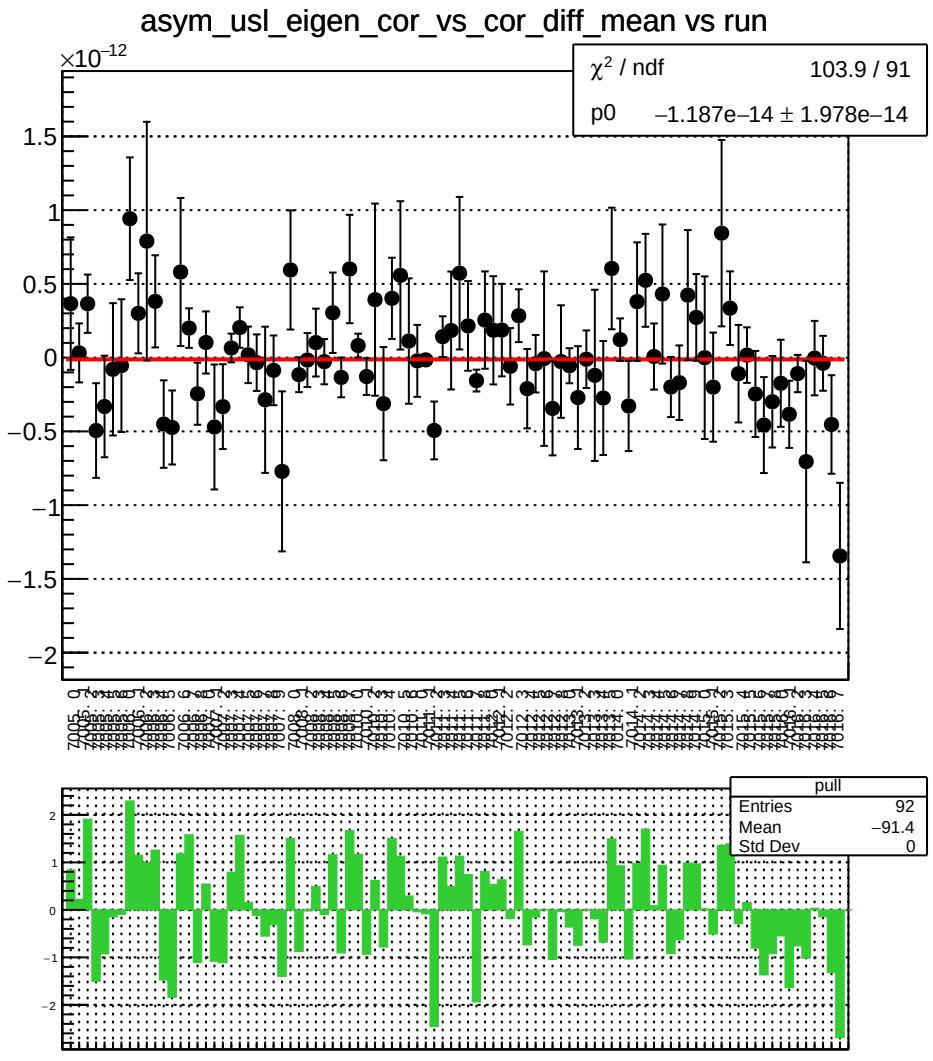

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.43 / 91
p0 −0.001228 ± 0.05438
pull
Entries 92
Mean 127.4
Std Dev 0
pull1D
Entries 92
Mean 0.02061
Std Dev 1.008

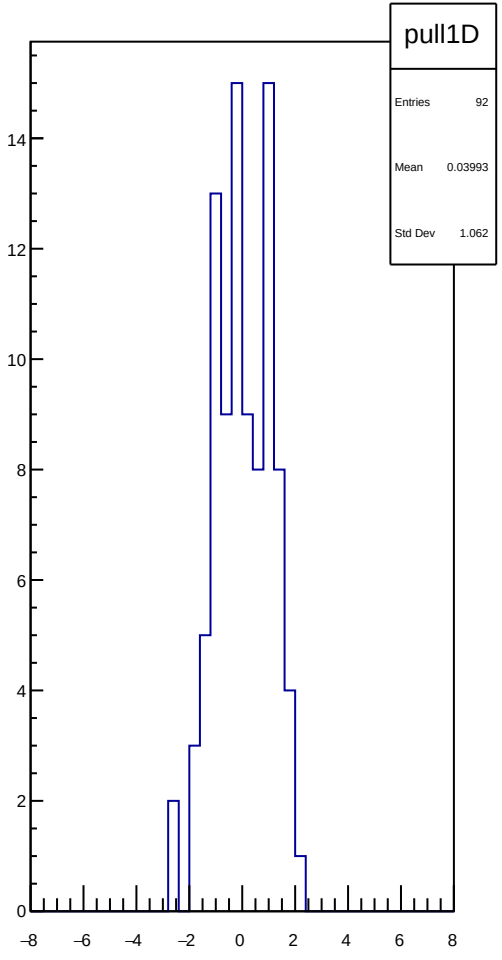

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.492e+04 / 91
p0 49.1 ± 0.03846
90
80
70
60
50
40
30

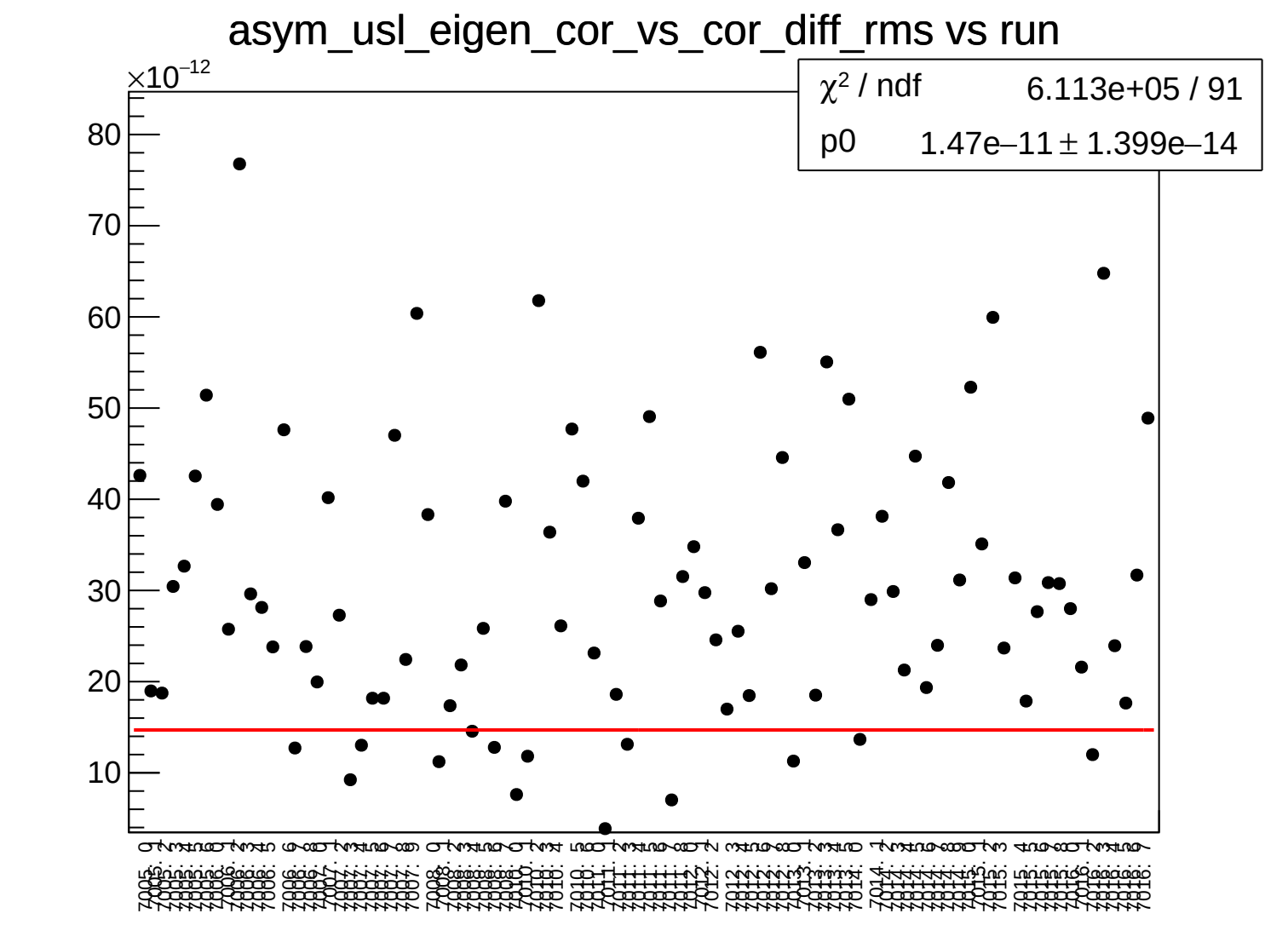

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 104.8 / 91
p0 −0.01301 ± 0.0764
pull
Entries 92
Mean 242.7
Std Dev 0

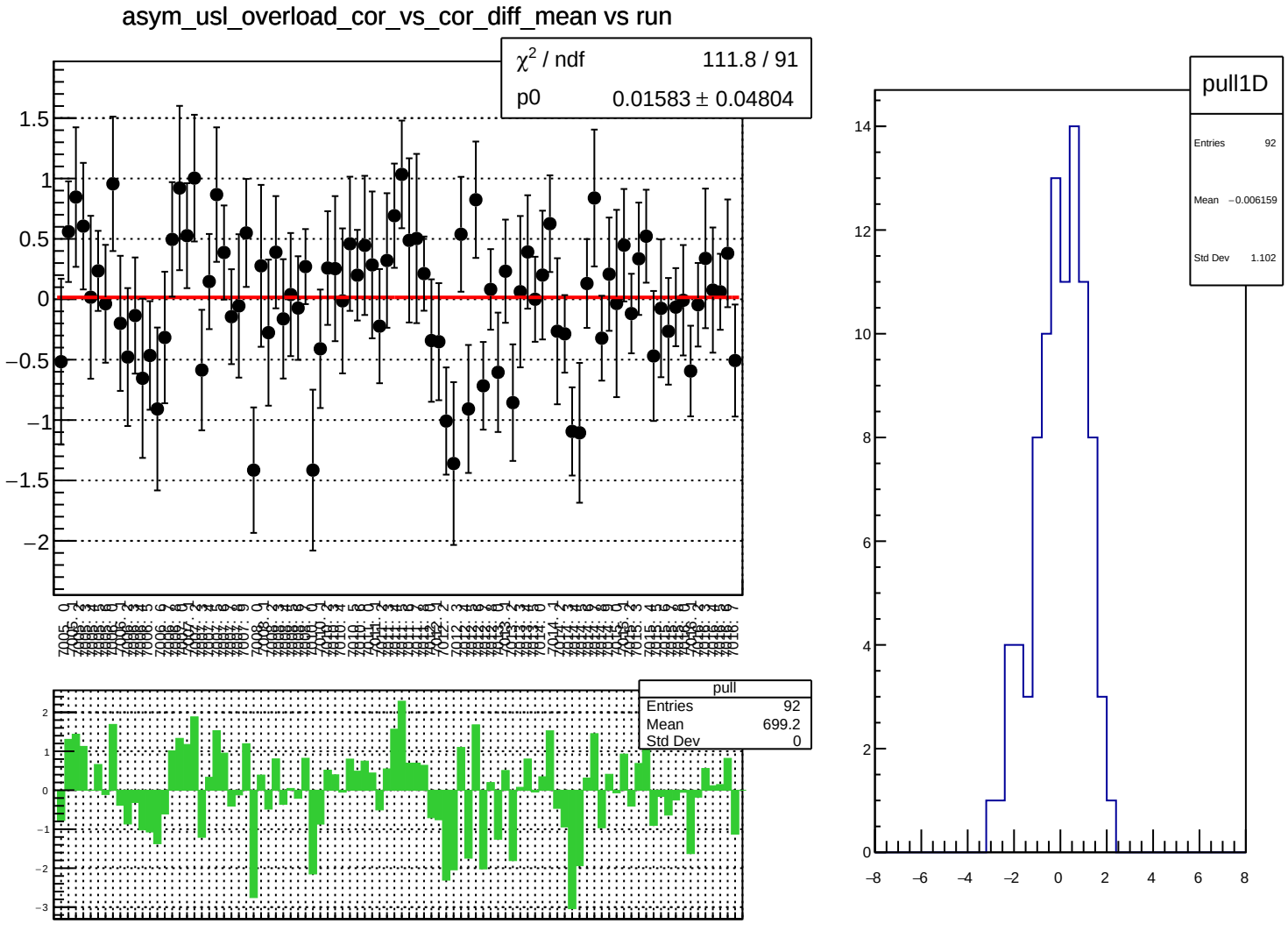

pull1D
Entries 92
Mean 0.0168
Std Dev 1.067

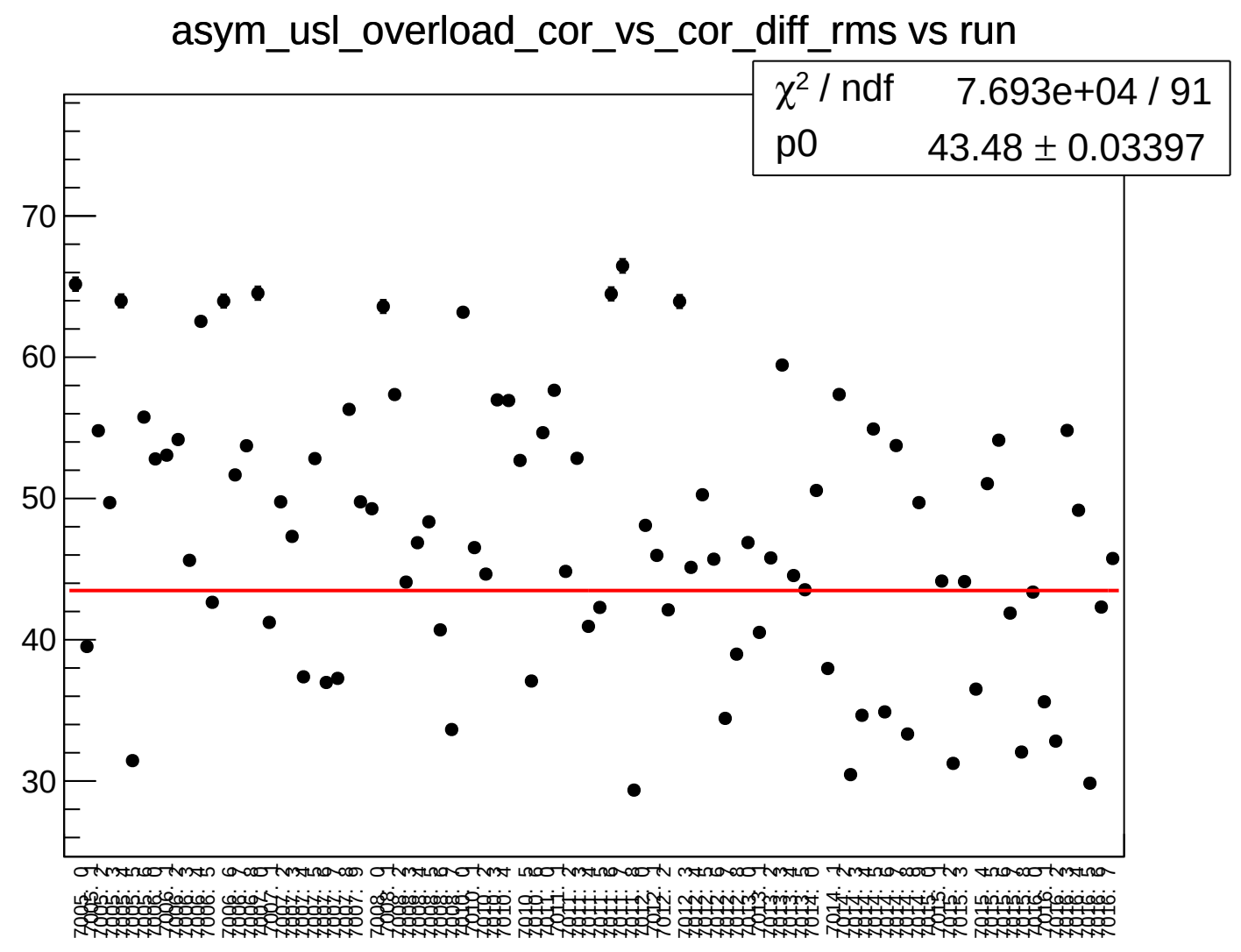

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.234e+04 / 91
p0 70.08 ± 0.05402
100
90
80
70
60
50

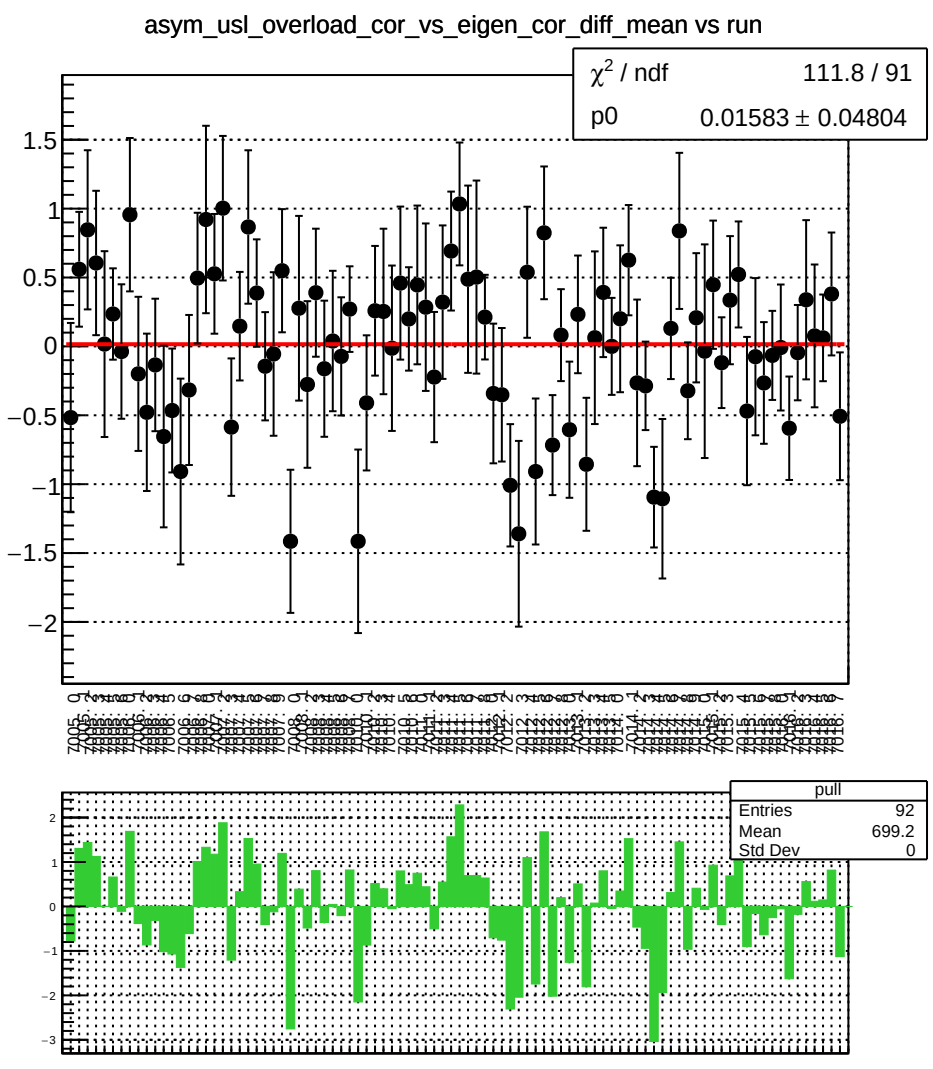

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 103.9 / 91
p0 −1.187e−14 ± 1.978e−14
pull
Entries 92
Mean −91.4
Std Dev 0

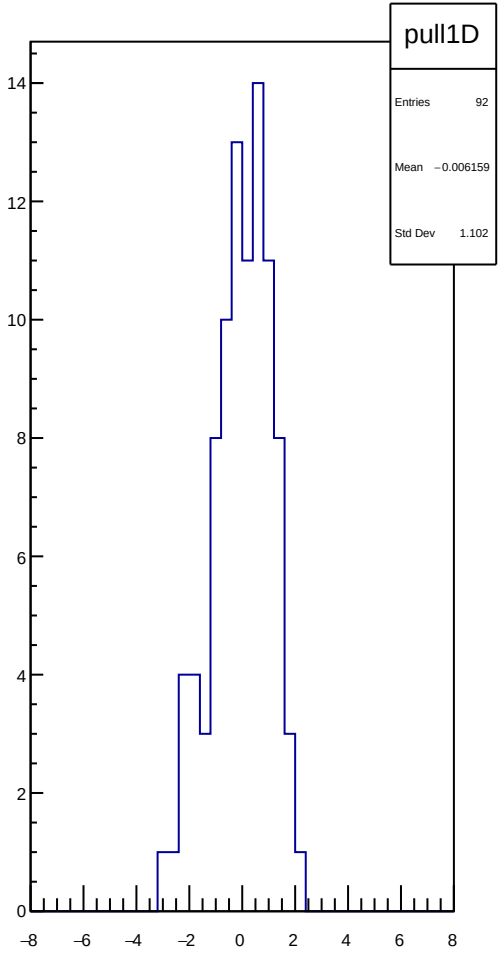

pull1D
Entries 92
Mean 0.03993
Std Dev 1.062

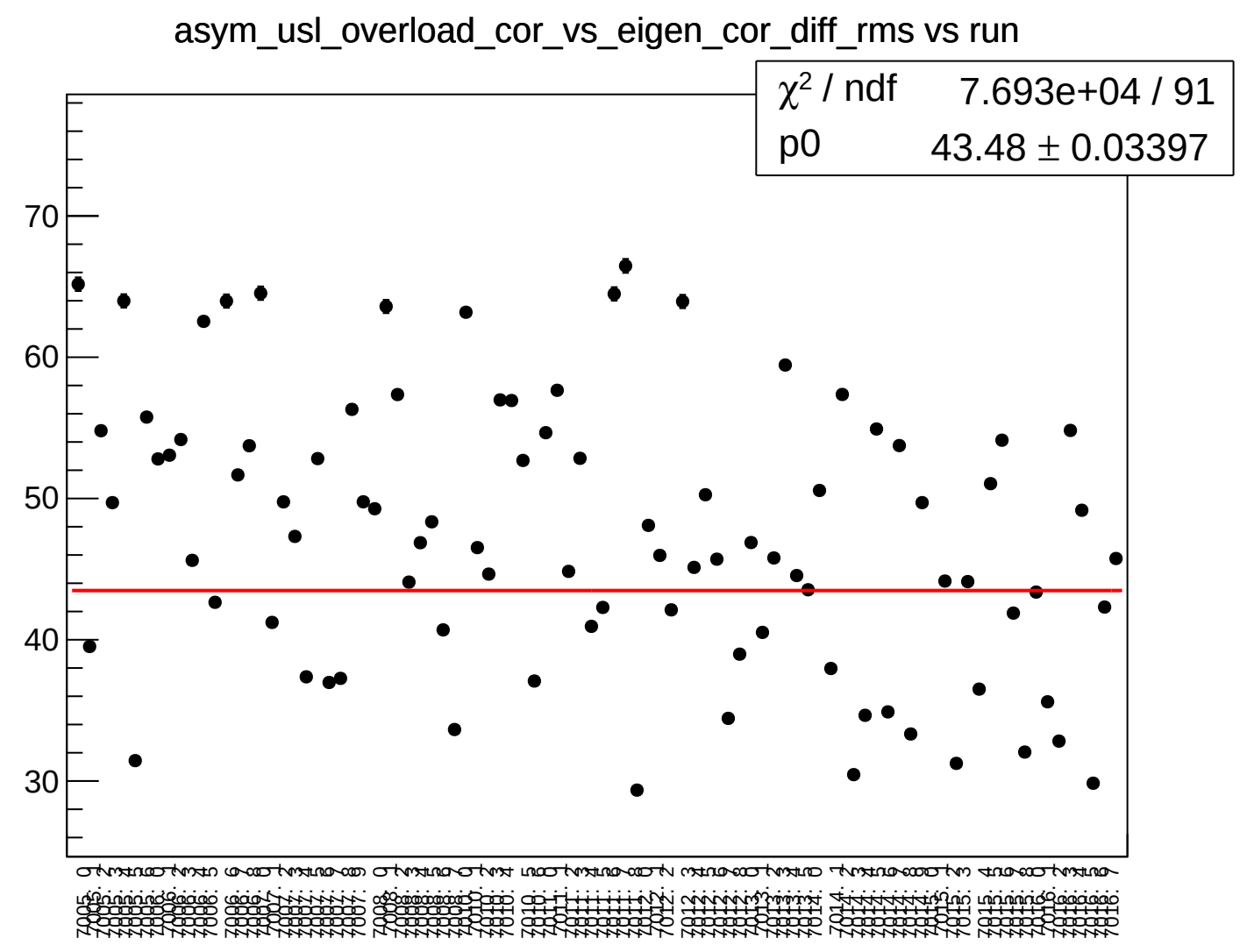

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.113e+05 / 91
p0 1.47e−11 ± 1.399e−14
80
70
60
50
40
30
20
10

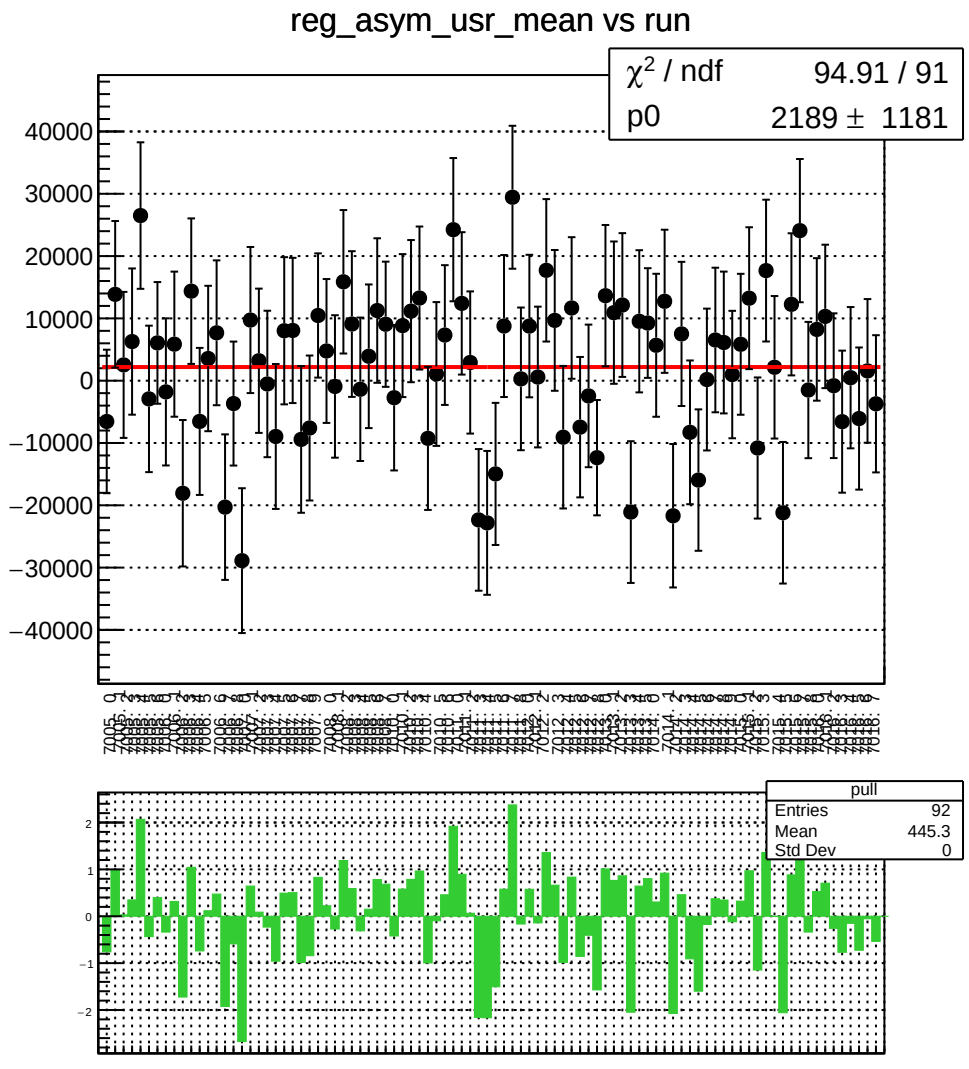

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 111.8 / 91
p0 0.01583 ± 0.04804
pull
Entries 92
Mean 699.2
Std Dev 0
pull1D
Entries 92
Mean −0.006159
Std Dev 1.102

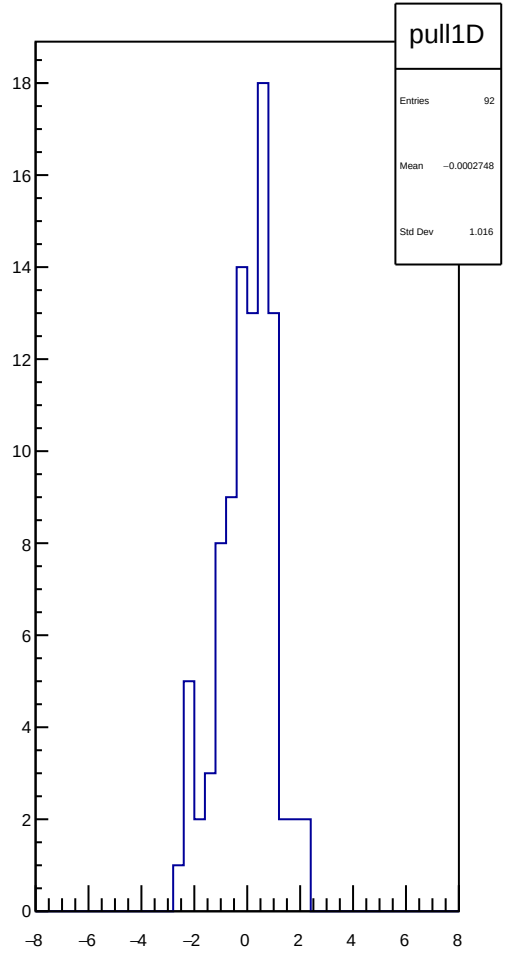

asym_usl_overload_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 7.693e+04 / 91
p0 43.48 ± 0.03397
70
60
50
40
30

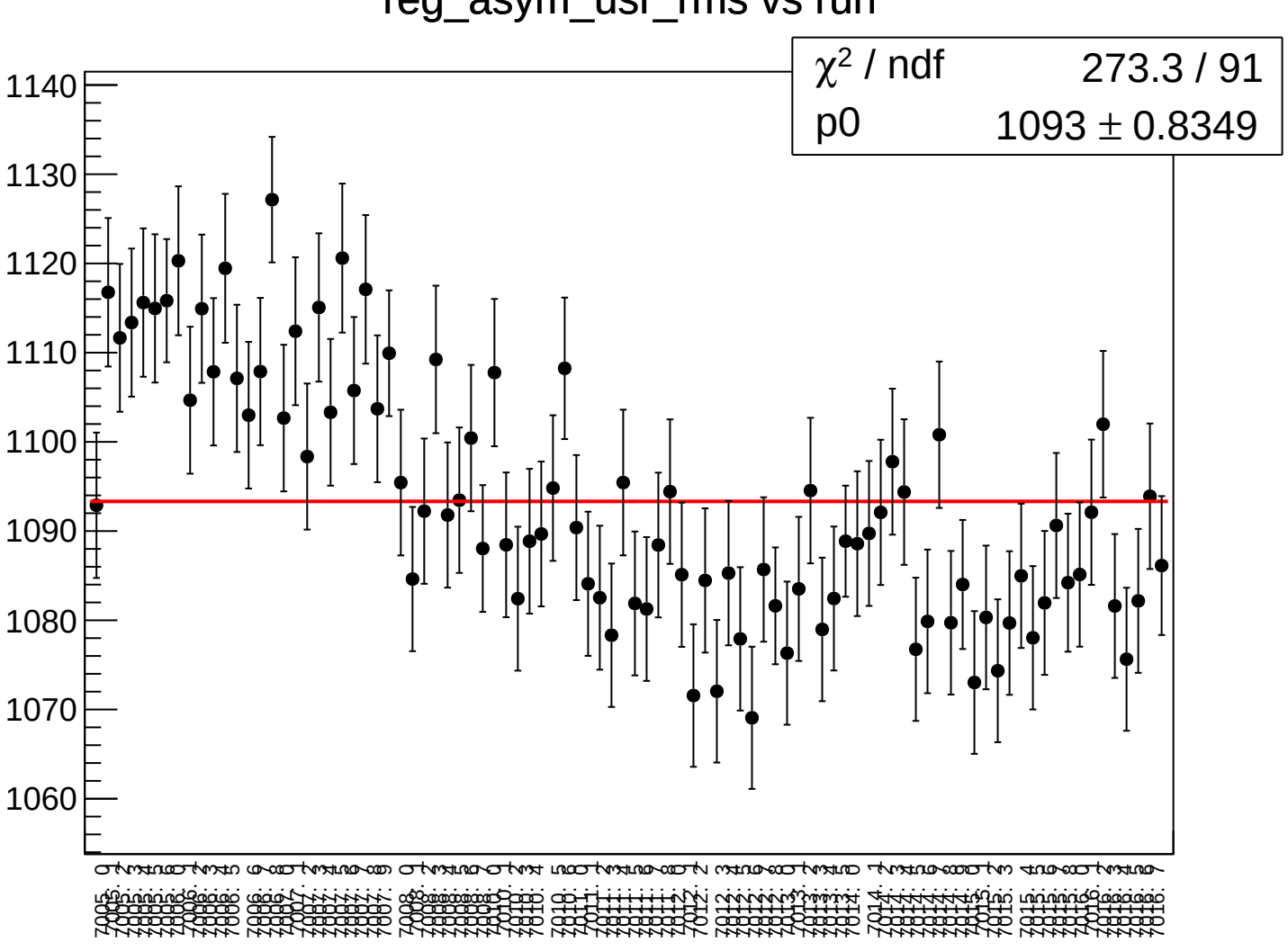

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.8 / 91
p0 0.01583 ± 0.04804
pull
Entries 92
Mean 699.2
Std Dev 0

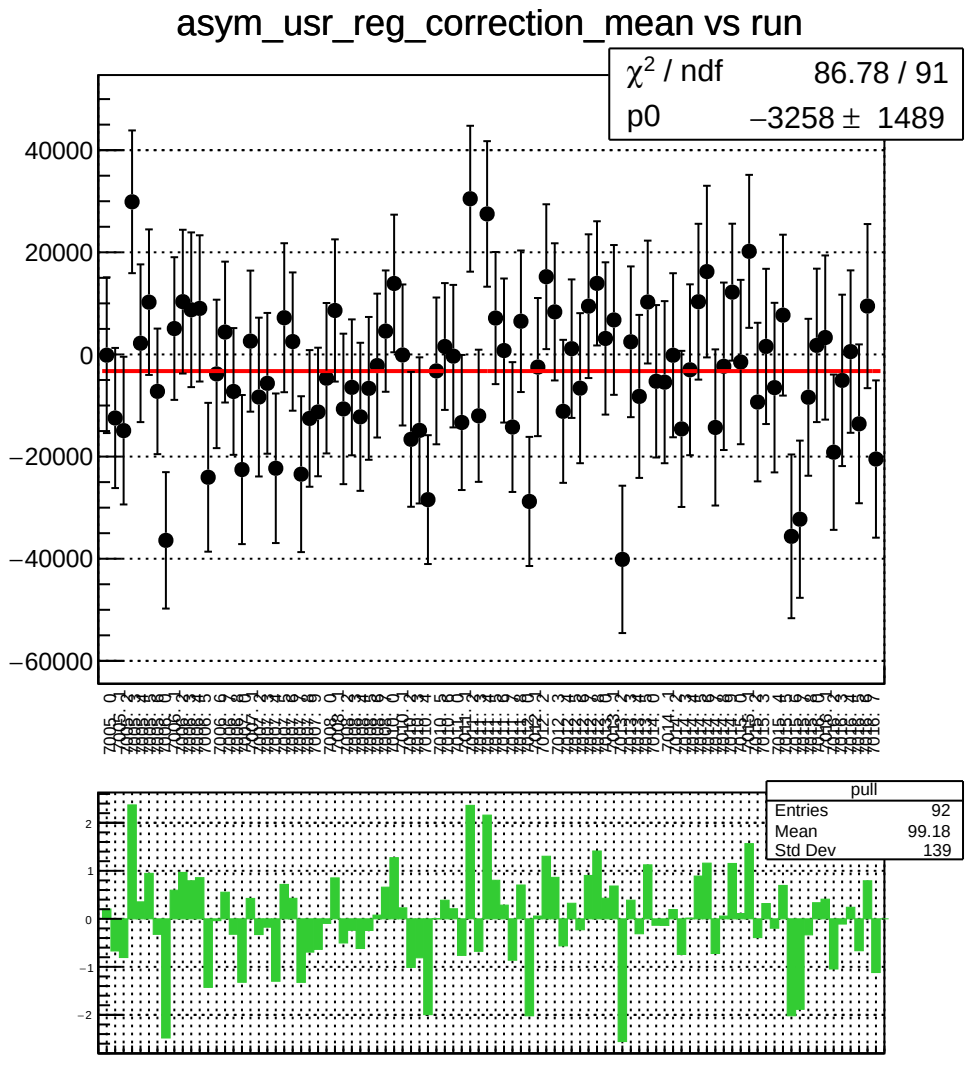

pull1D
Entries 92
Mean −0.006159
Std Dev 1.102

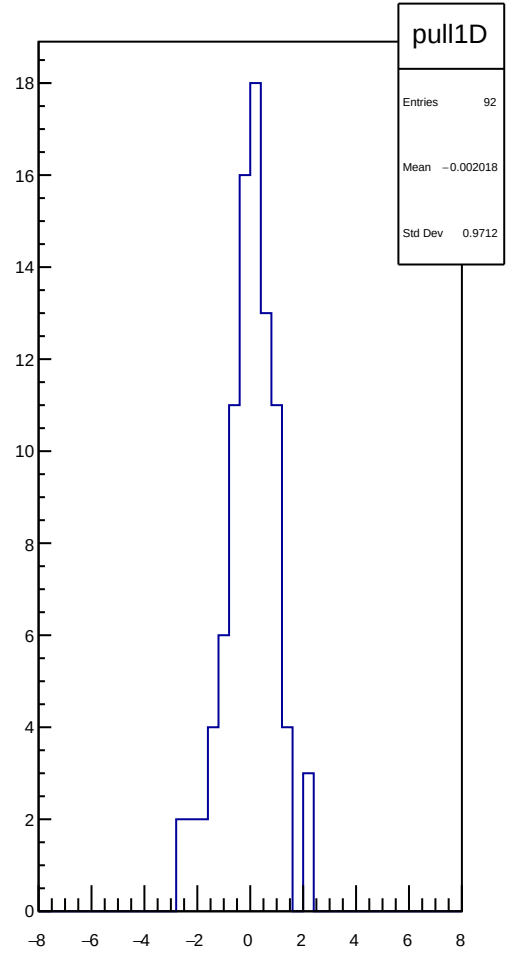

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.693e+04 / 91
p0 43.48 ± 0.03397
70
60
50
40
30

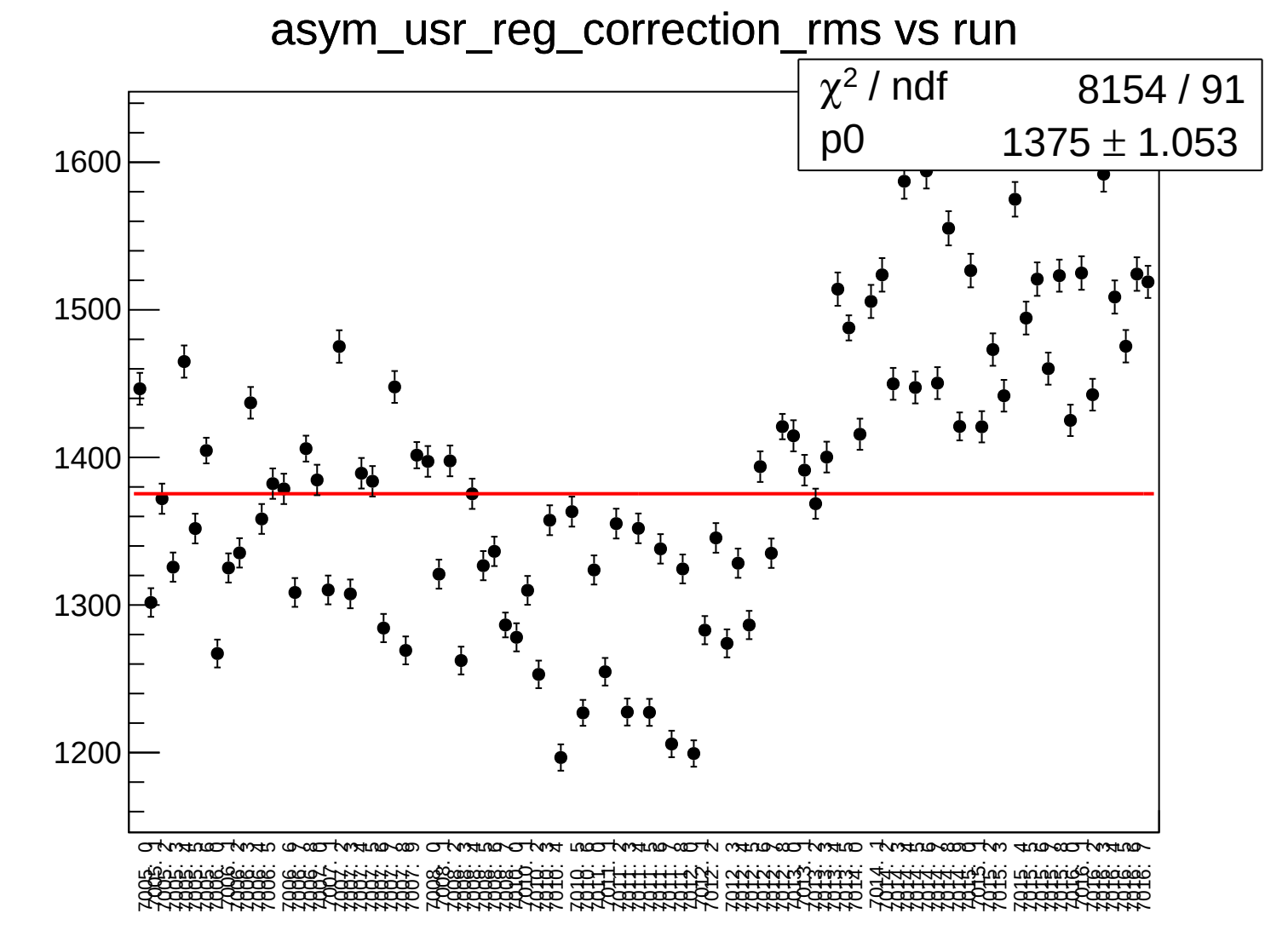

reg_asym_usr_mean vs run
$\chi^2$ / ndf 94.91 / 91
p0 2189 ± 1181
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 445.3
Std Dev 0
2
1
0
−1
−2

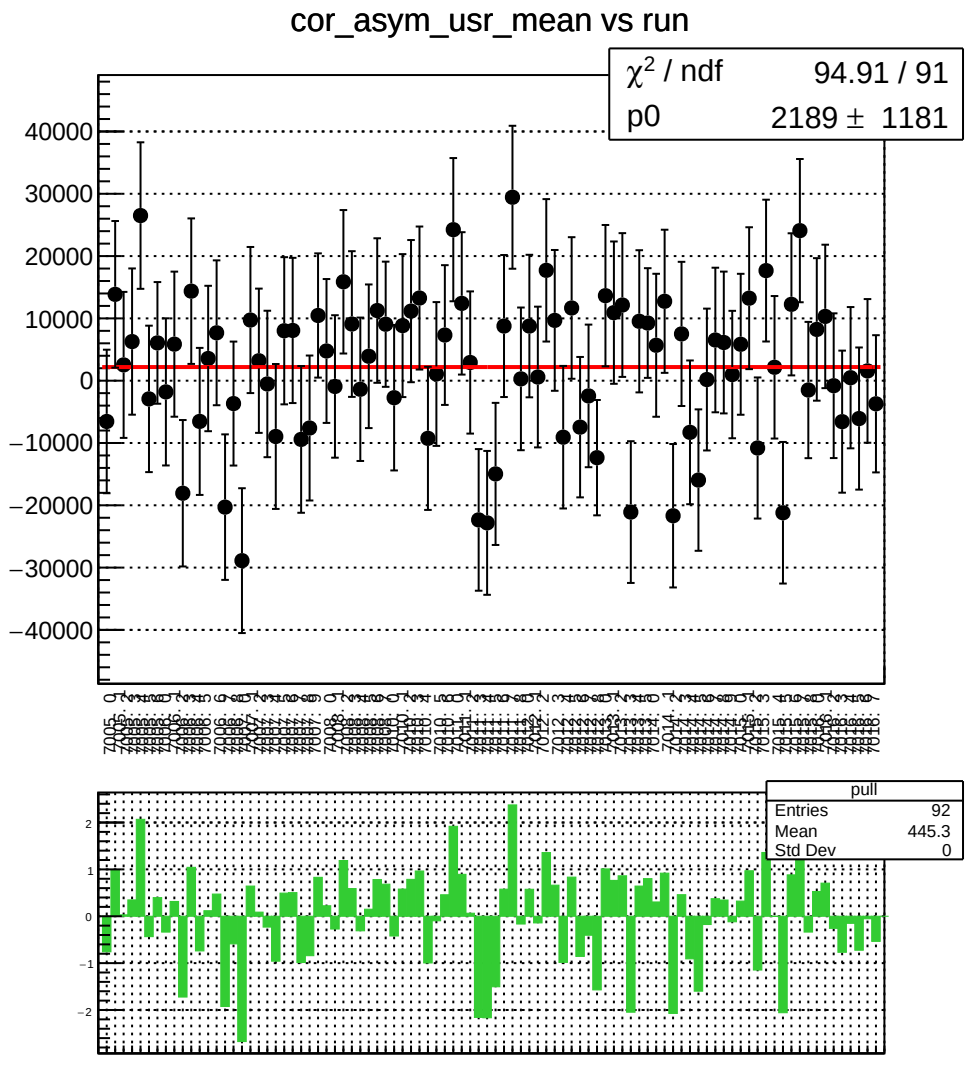

pull1D
Entries 92
Mean −0.0002748
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

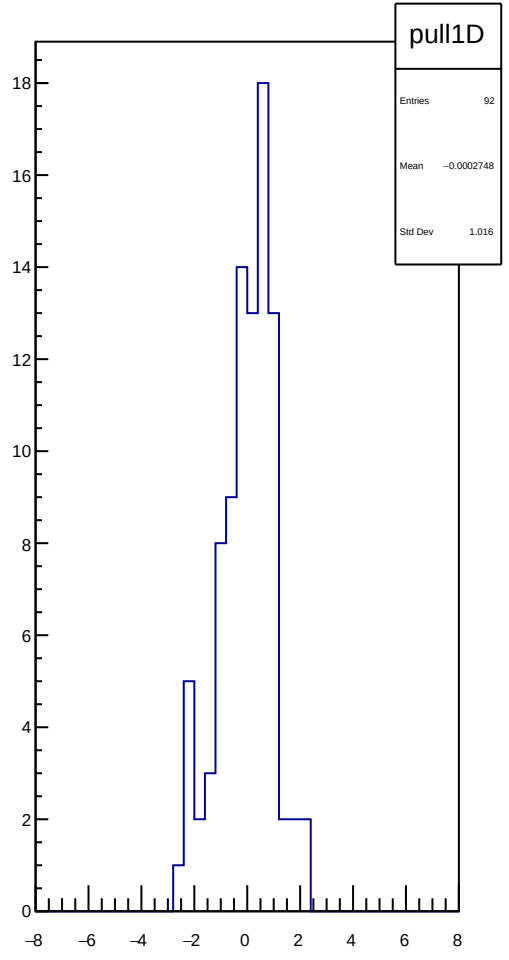

reg_asym_usr_rms vs run
χ² / ndf 273.3 / 91
p0 1093 ± 0.8349
1140
1130
1120
1110
1100
1090
1080
1070
1060

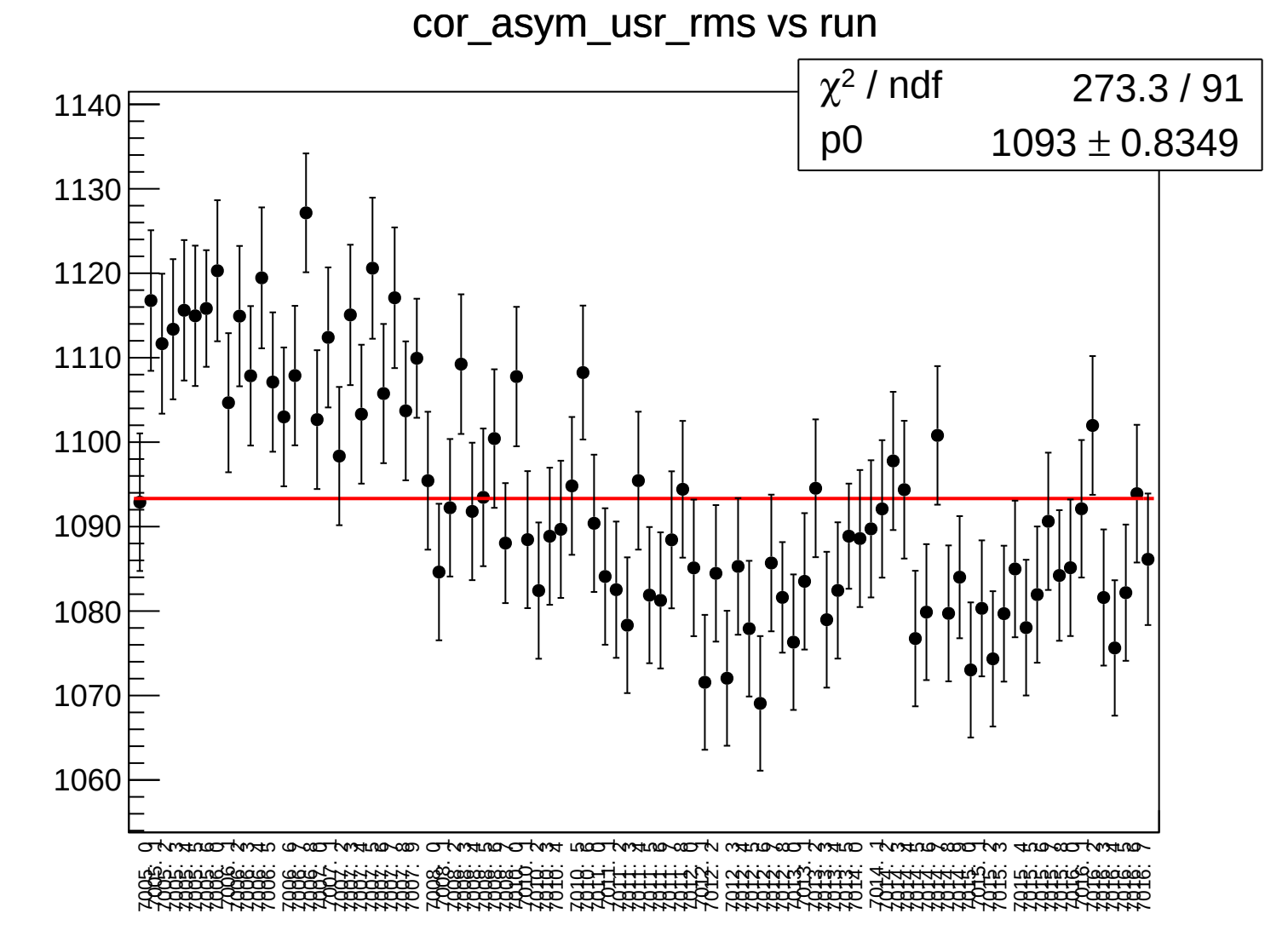

asym_usr_reg_correction_mean vs run
χ² / ndf 86.78 / 91
p0 −3258 ± 1489
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 99.18
Std Dev 139
2
1
0
−1
−2

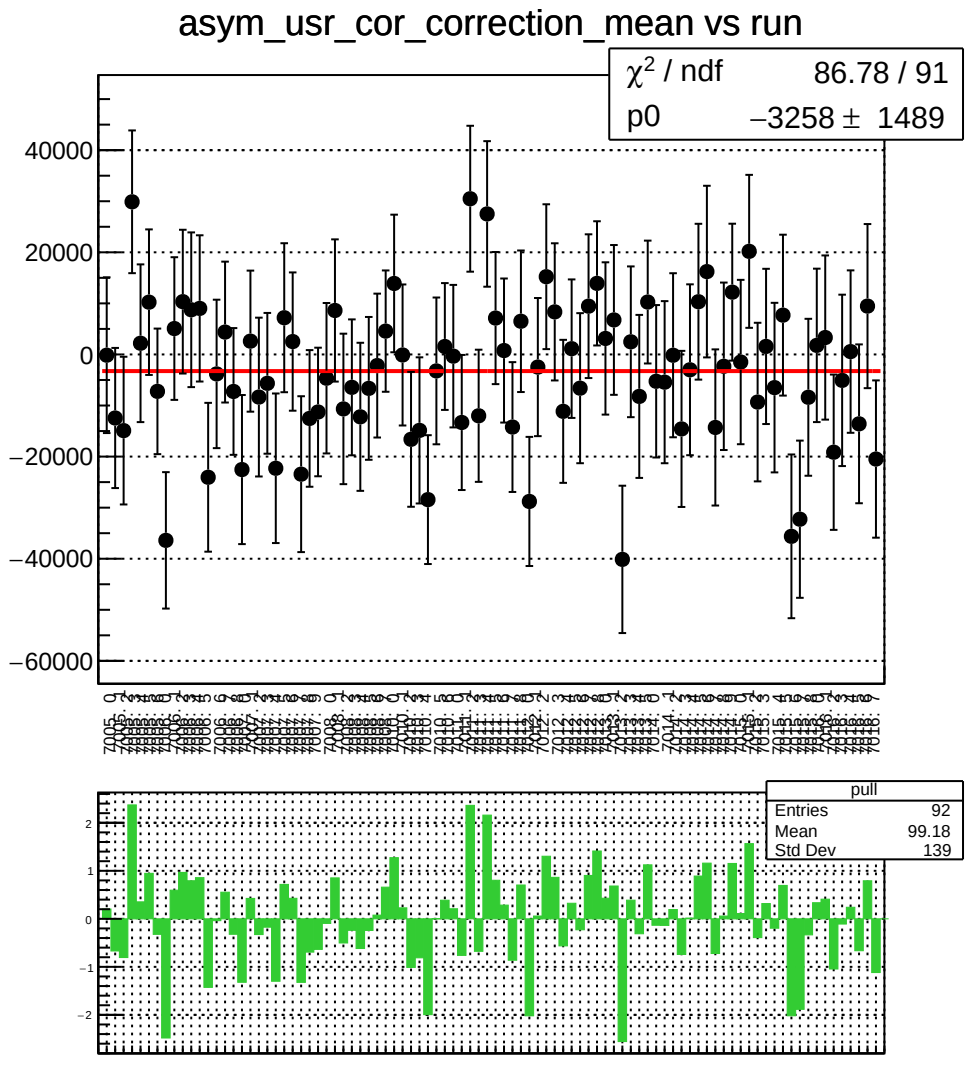

pull1D
Entries 92
Mean −0.002018
Std Dev 0.9712
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

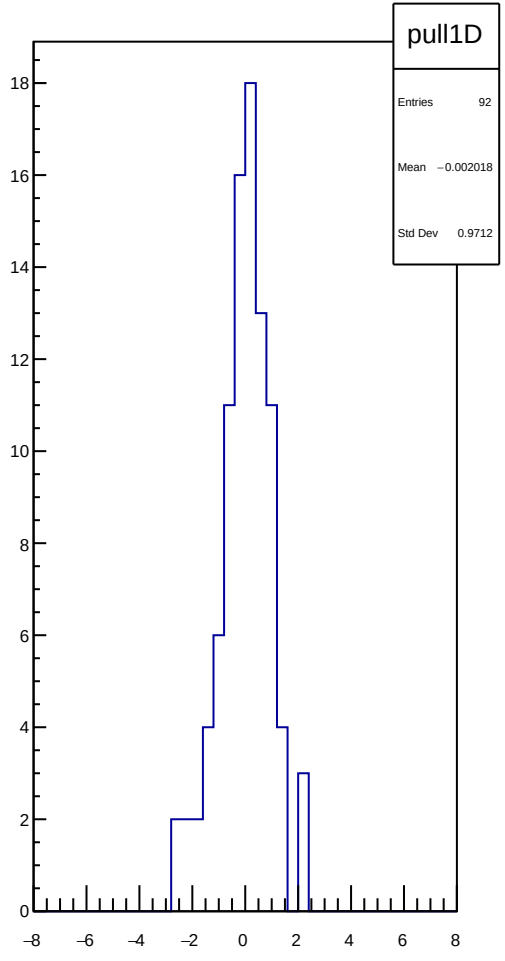

asym_usr_reg_correction_rms vs run
χ² / ndf 8154 / 91
p0 1375 ± 1.053
1600
1500
1400
1300
1200

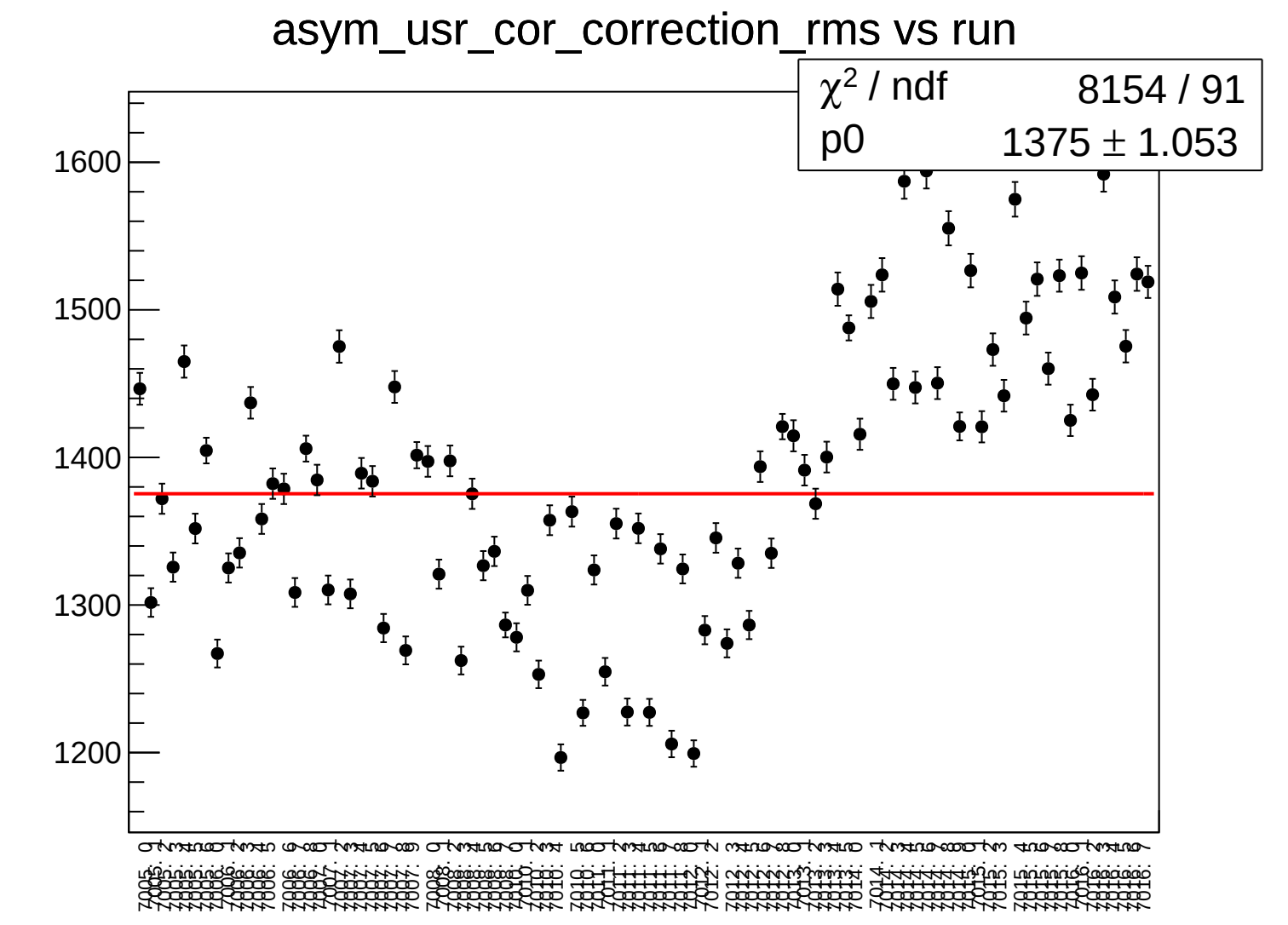

cor_asym_usr_mean vs run
χ² / ndf 94.91 / 91
p0 2189 ± 1181
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 445.3
Std Dev 0
2
1
0
−1
−2

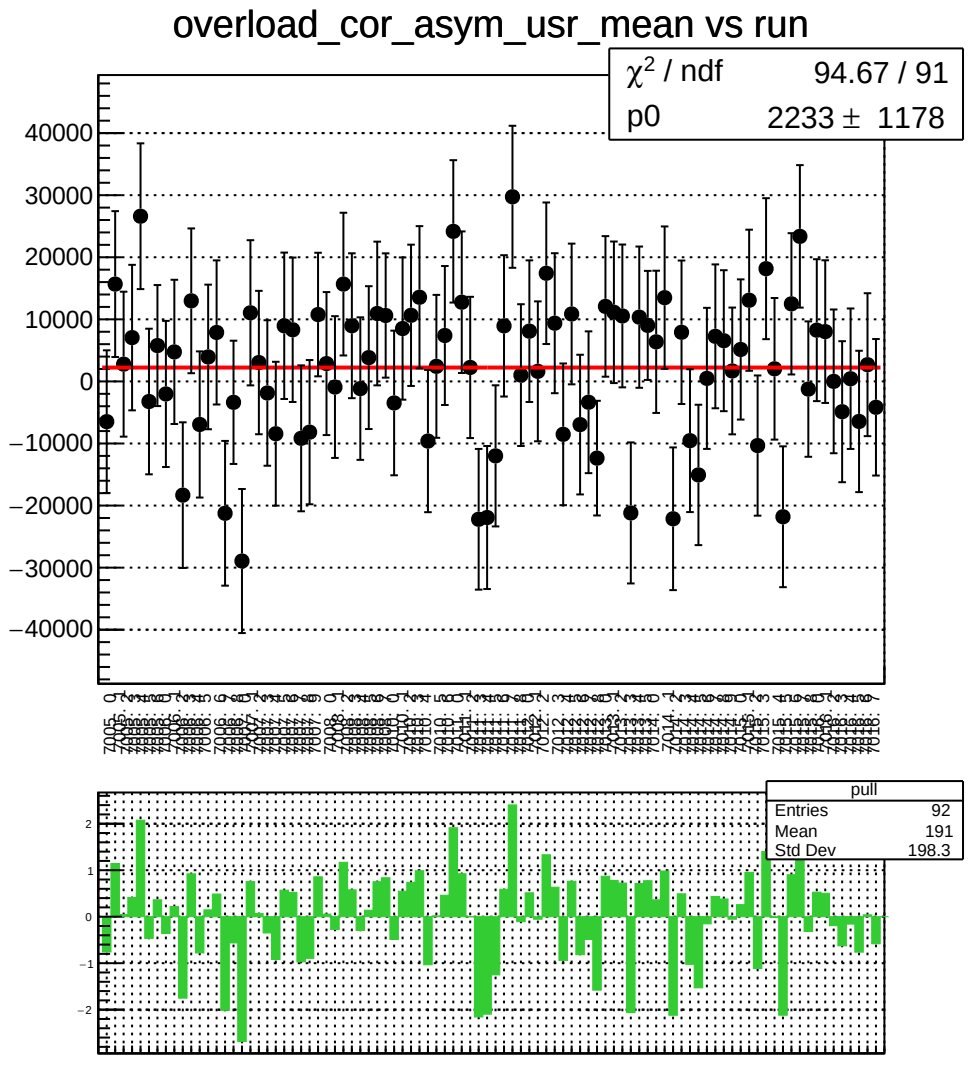

pull1D
Entries 92
Mean −0.0002748
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

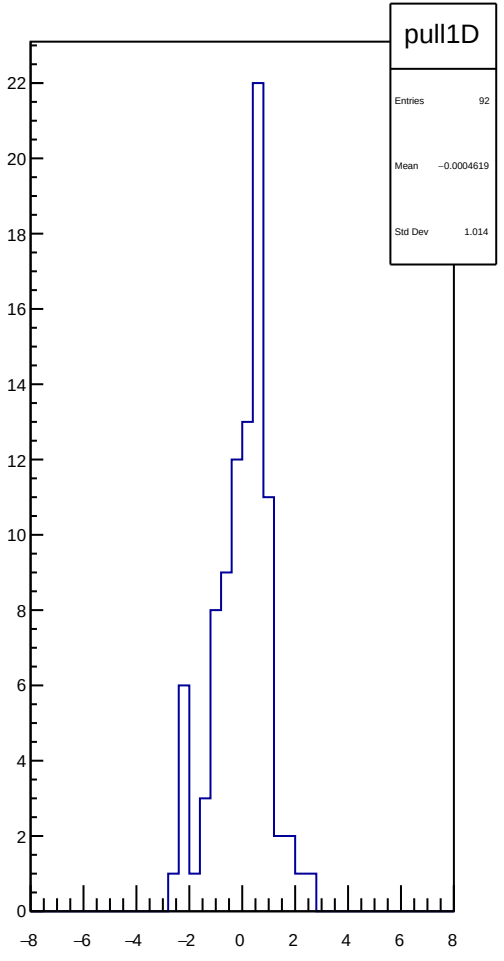

cor_asym_usr_rms vs run
χ² / ndf 273.3 / 91
p0 1093 ± 0.8349
1140
1130
1120
1110
1100
1090
1080
1070
1060

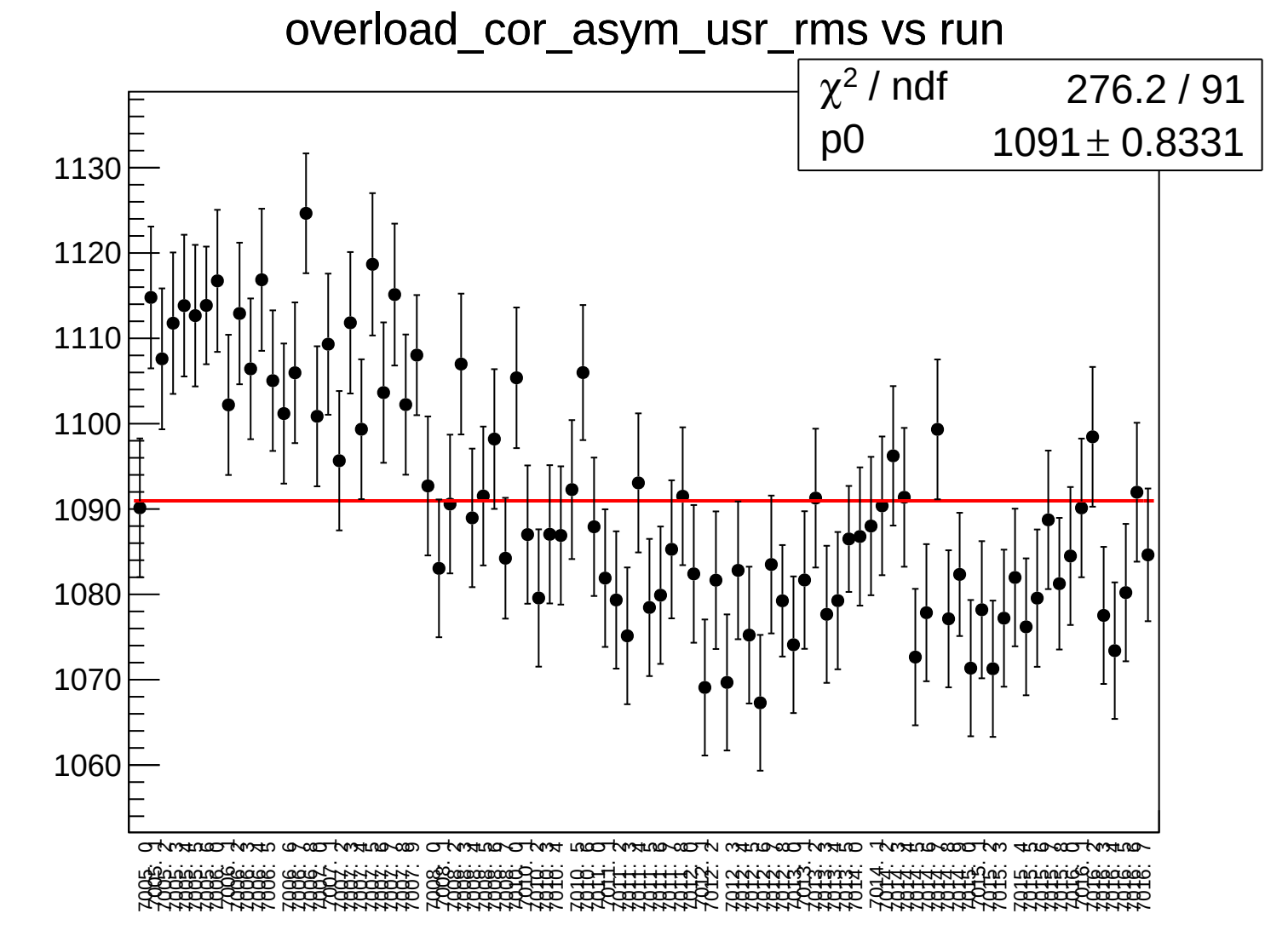

asym_usr_cor_correction_mean vs run
χ² / ndf 86.78 / 91
p0 −3258 ± 1489
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 99.18
Std Dev 139
2
1
0
−1
−2

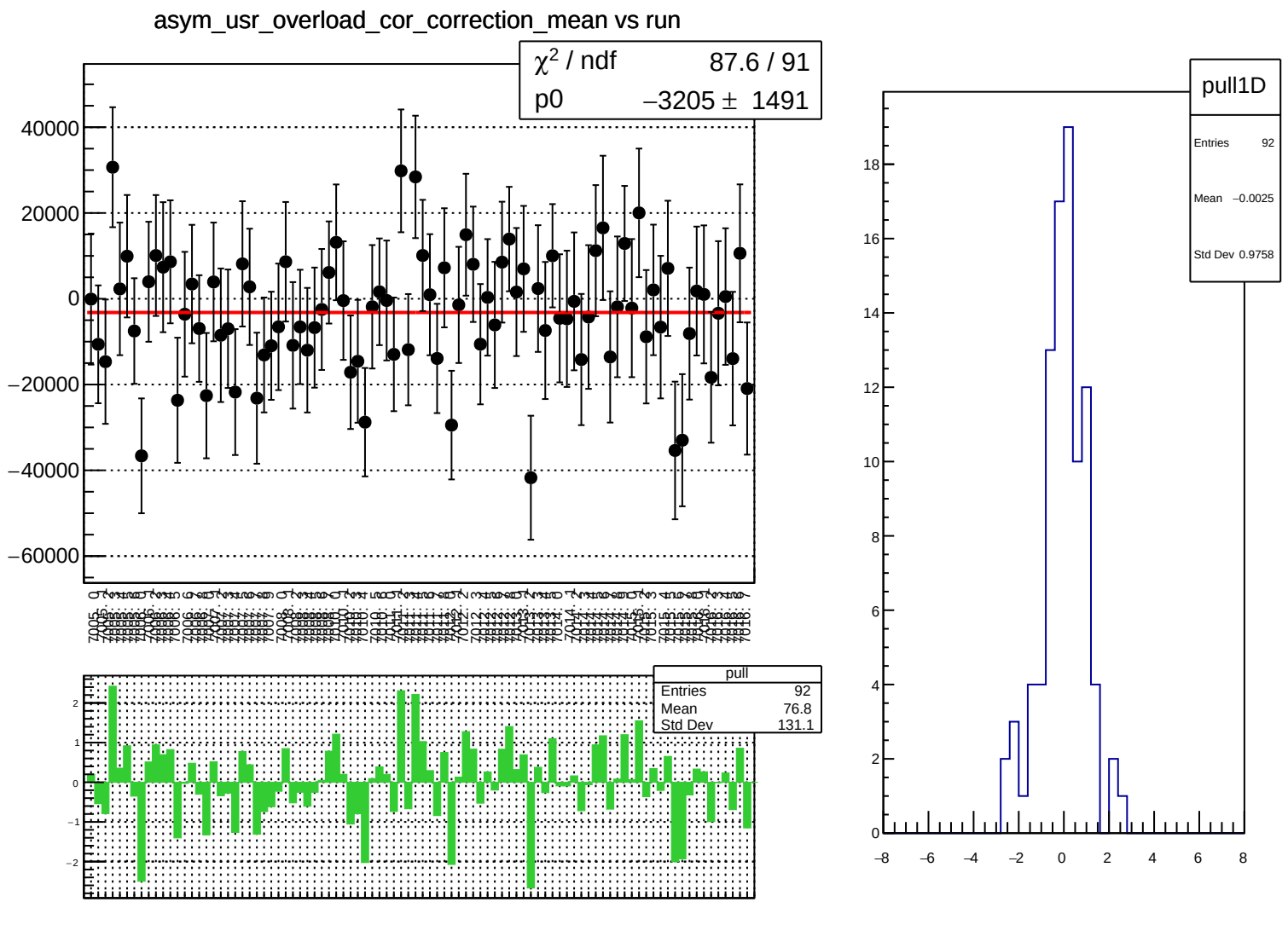

pull1D
Entries 92
Mean −0.002018
Std Dev 0.9712
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

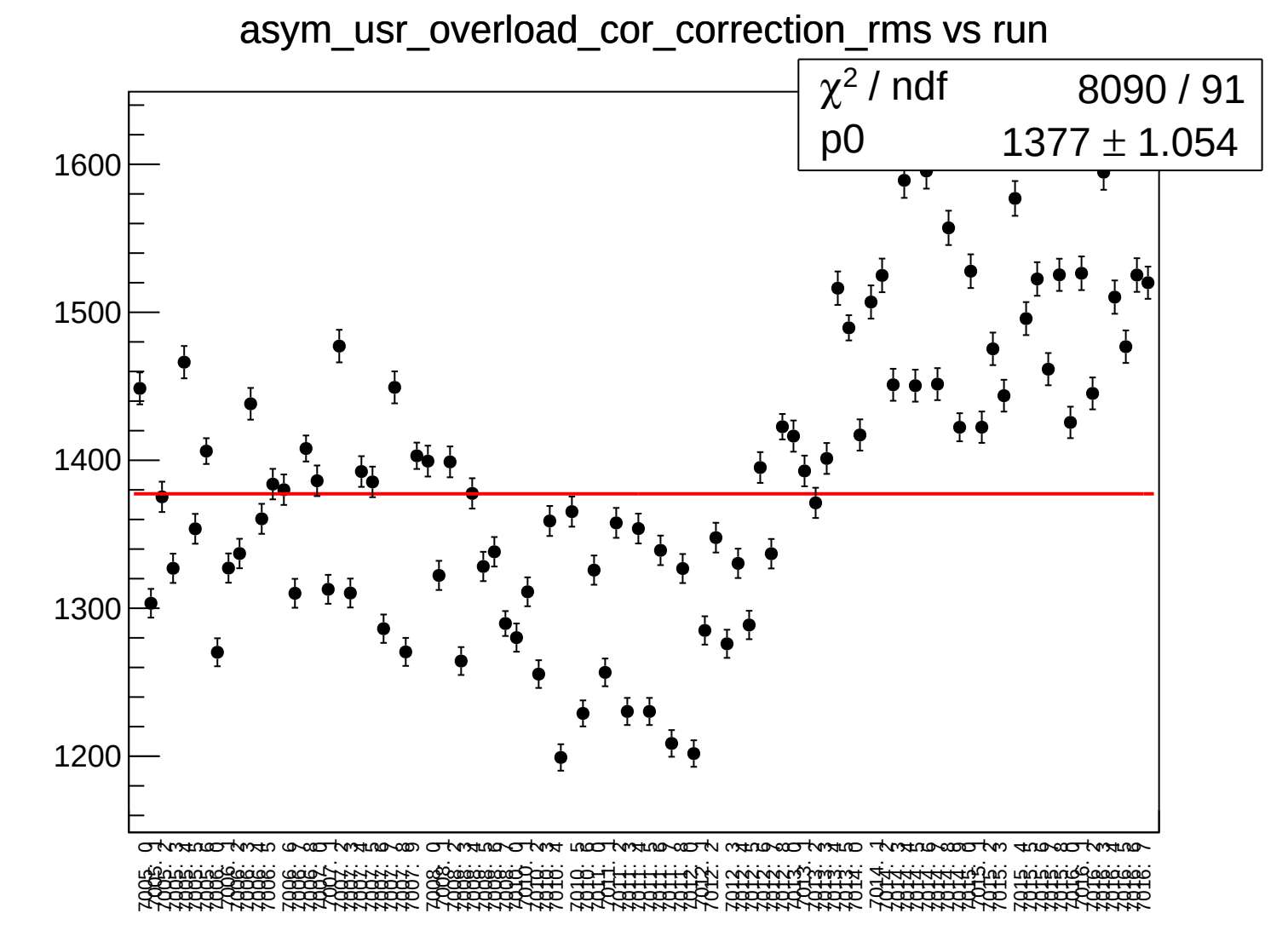

asym_usr_cor_correction_rms vs run
χ² / ndf 8154 / 91
p0 1375 ± 1.053
1600
1500
1400
1300
1200

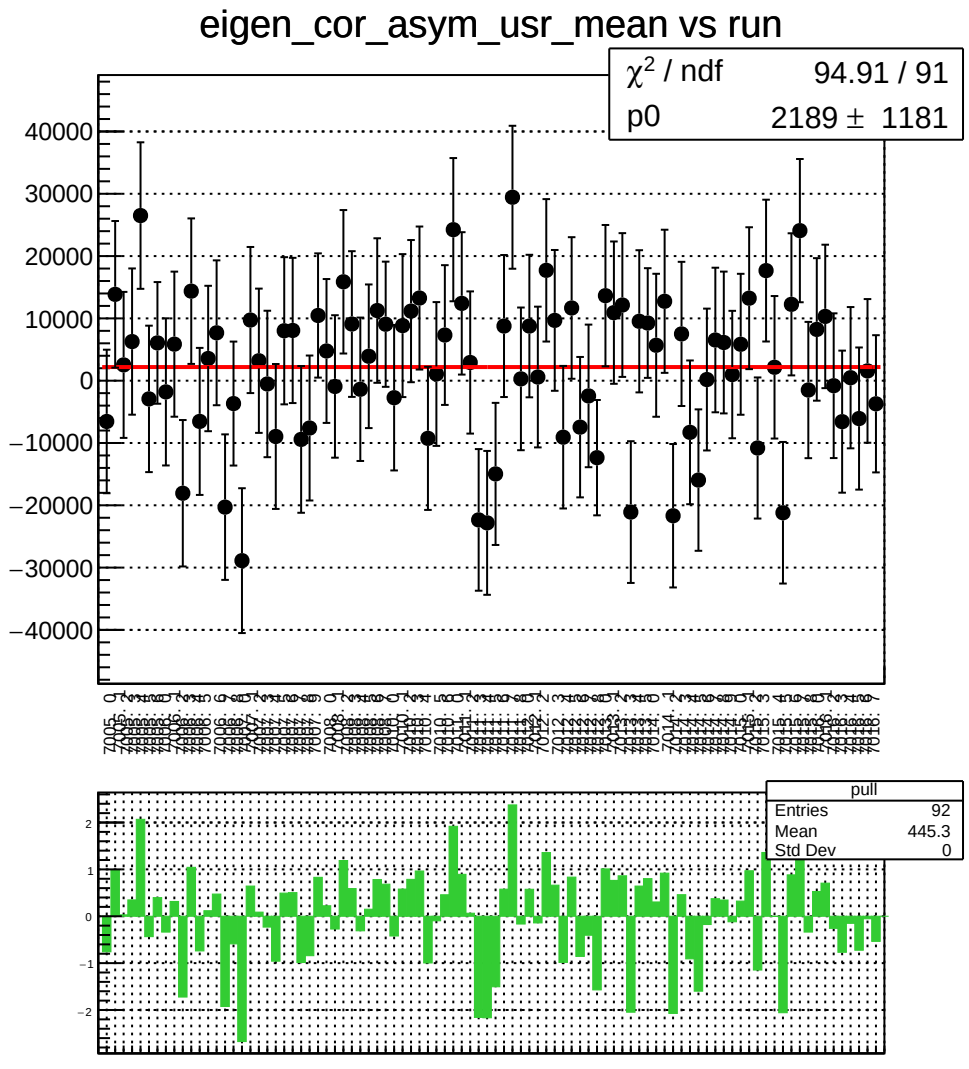

overload_cor_asym_usr_mean vs run
χ² / ndf 94.67 / 91
p0 2233 ± 1178
pull
Entries 92
Mean 191
Std Dev 198.3

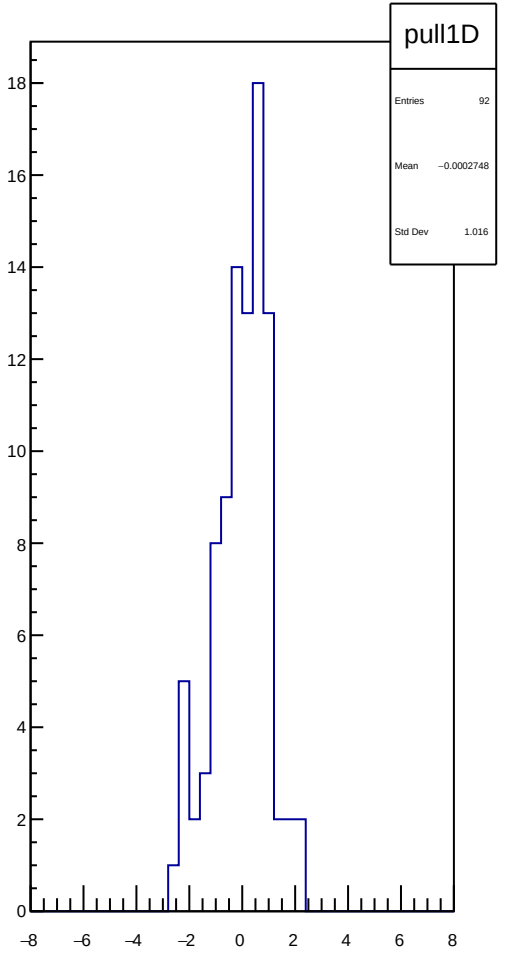

pull1D
Entries 92
Mean −0.0004619
Std Dev 1.014

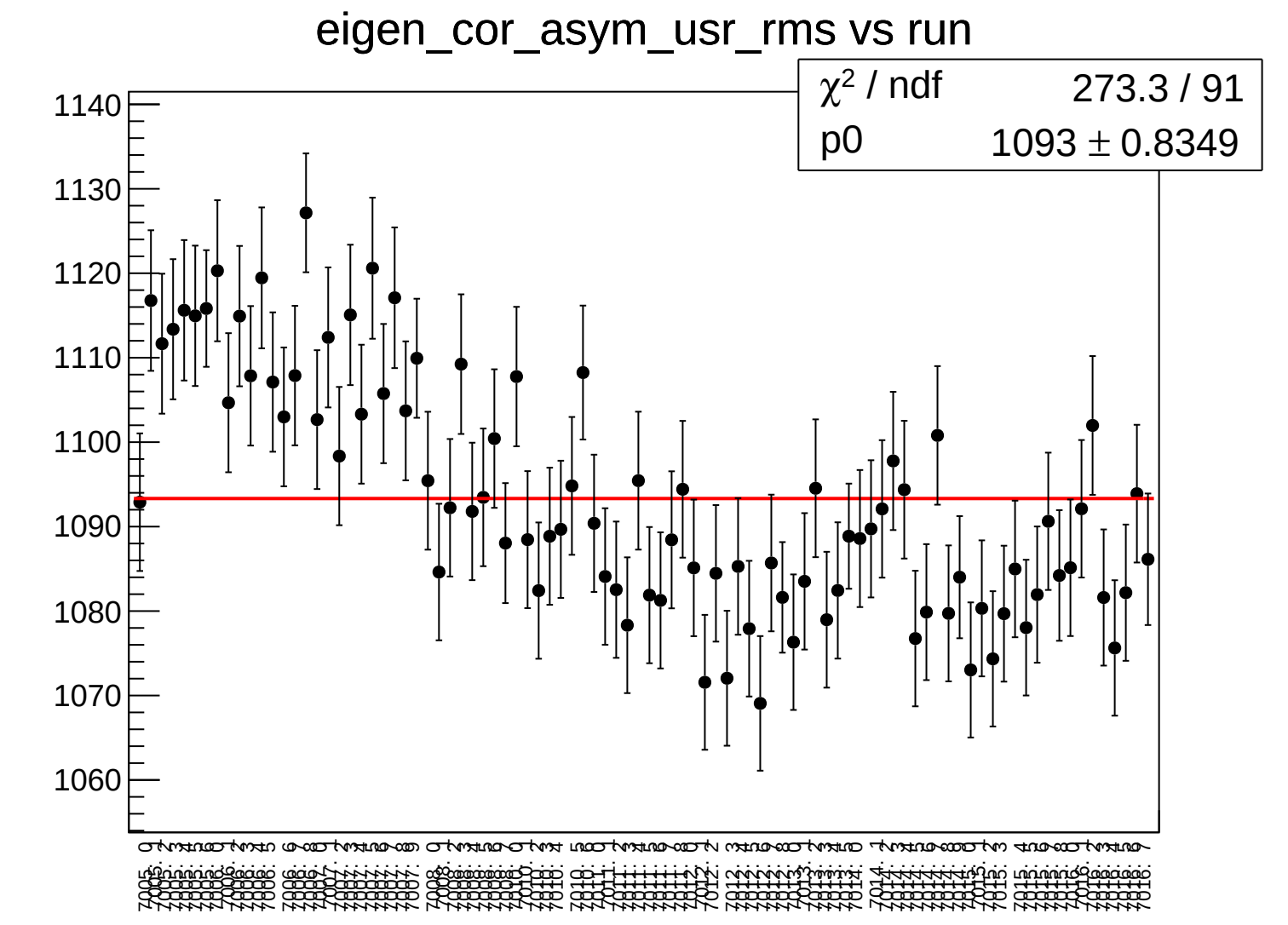

overload_cor_asym_usr_rms vs run
χ² / ndf 276.2 / 91
p0 1091 ± 0.8331
1130
1120
1110
1100
1090
1080
1070
1060

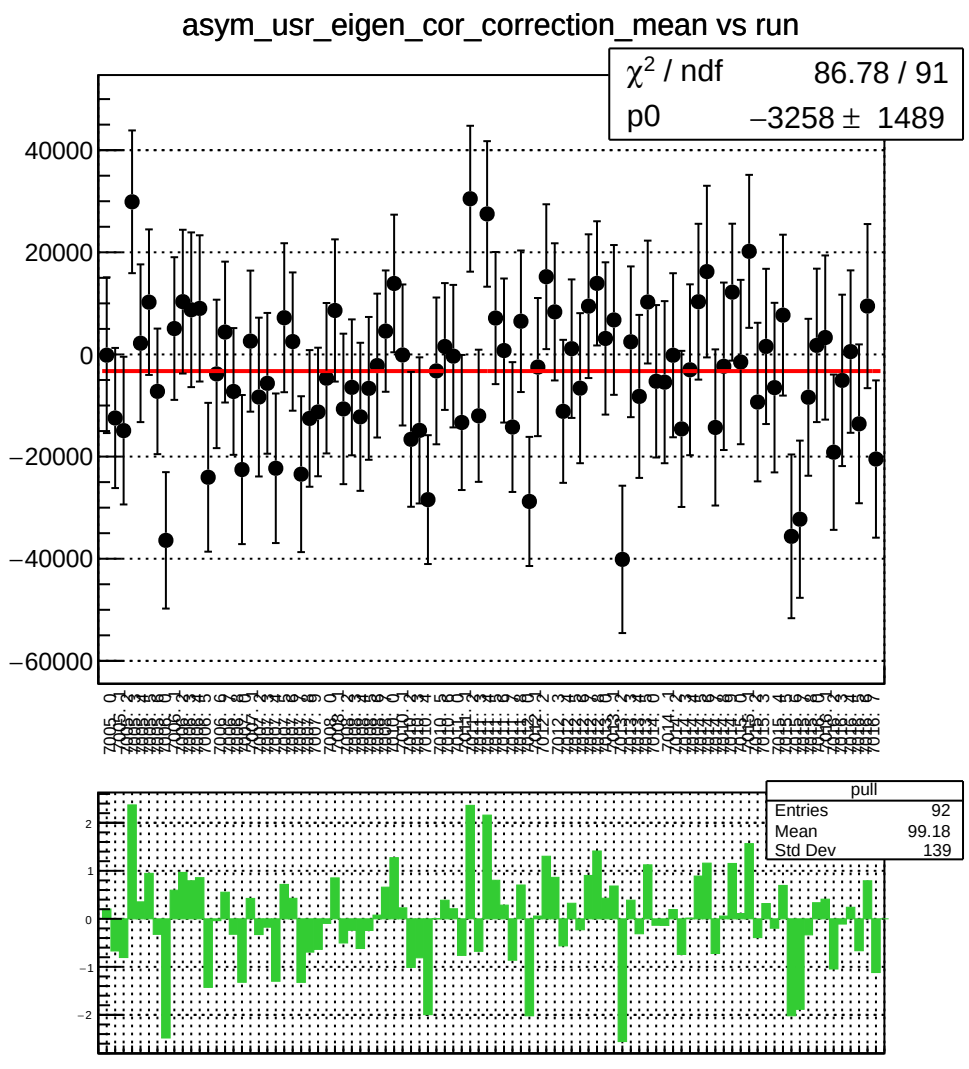

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 87.6 / 91
p0 −3205 ± 1491
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 76.8
Std Dev 131.1
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0025
Std Dev 0.9758
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

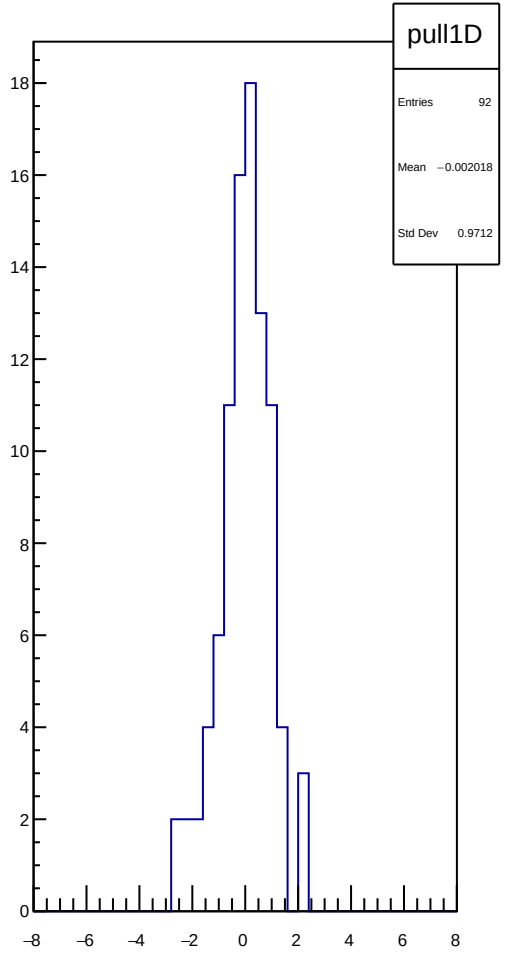

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 8090 / 91
p0 1377 ± 1.054
1600
1500
1400
1300
1200

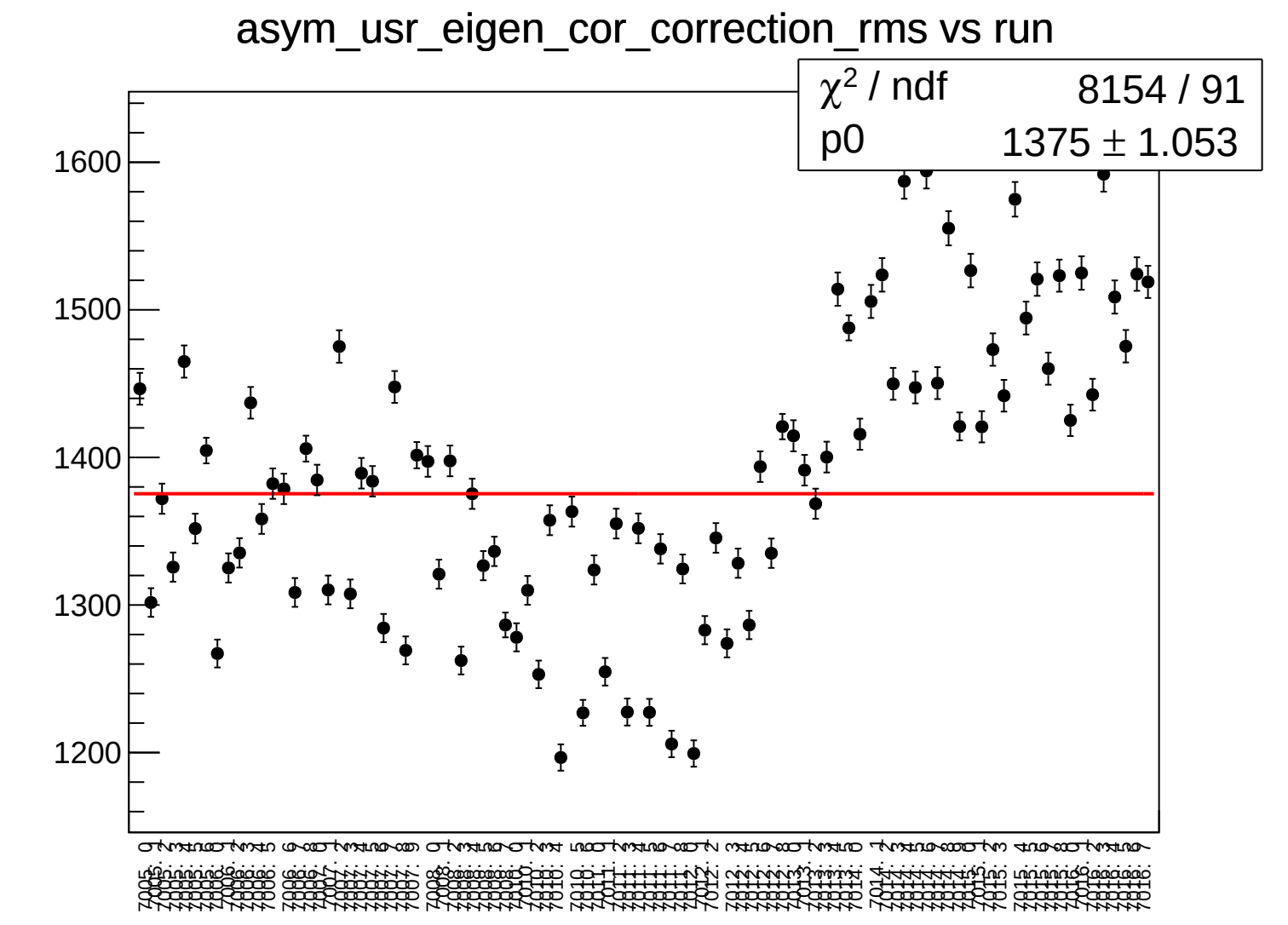

eigen_cor_asym_usr_mean vs run
χ² / ndf 94.91 / 91
p0 2189 ± 1181
pull
Entries 92
Mean 445.3
Std Dev 0

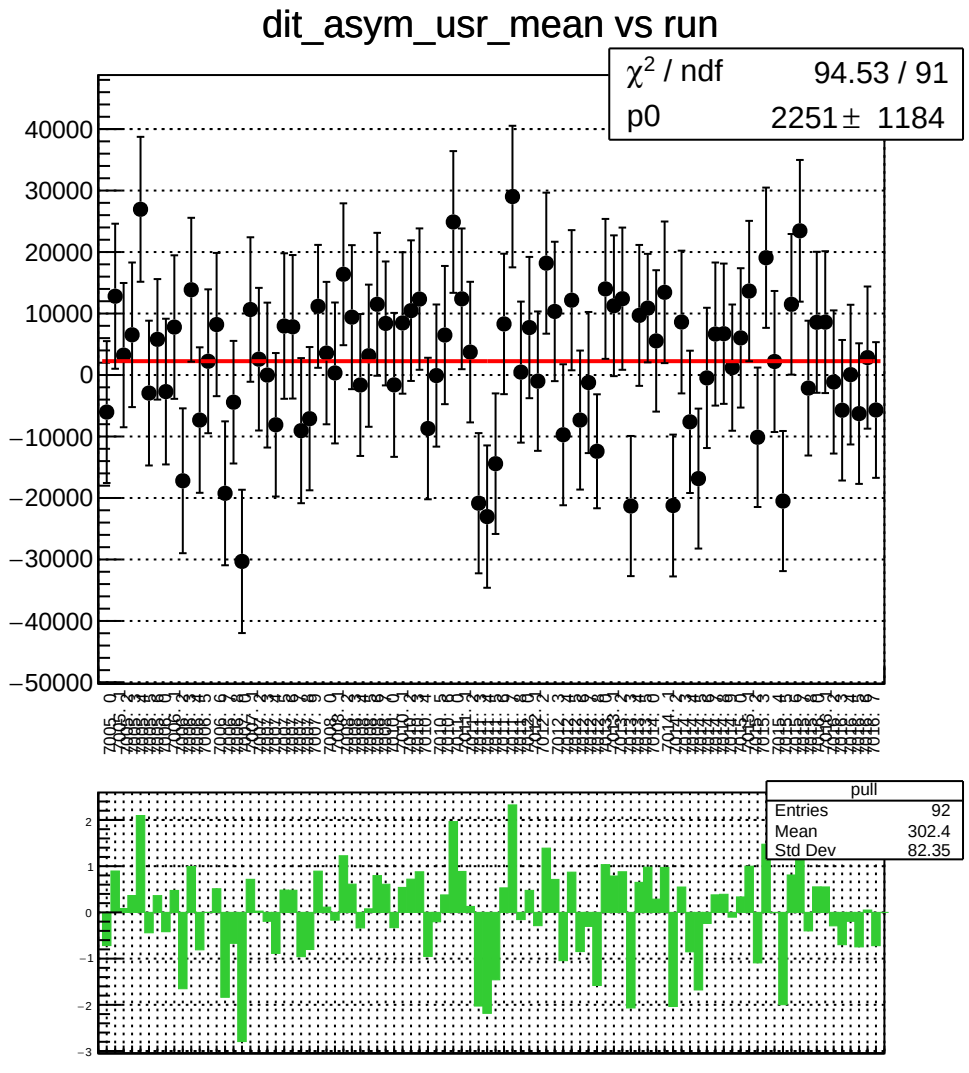

pull1D
Entries 92
Mean −0.0002748
Std Dev 1.016

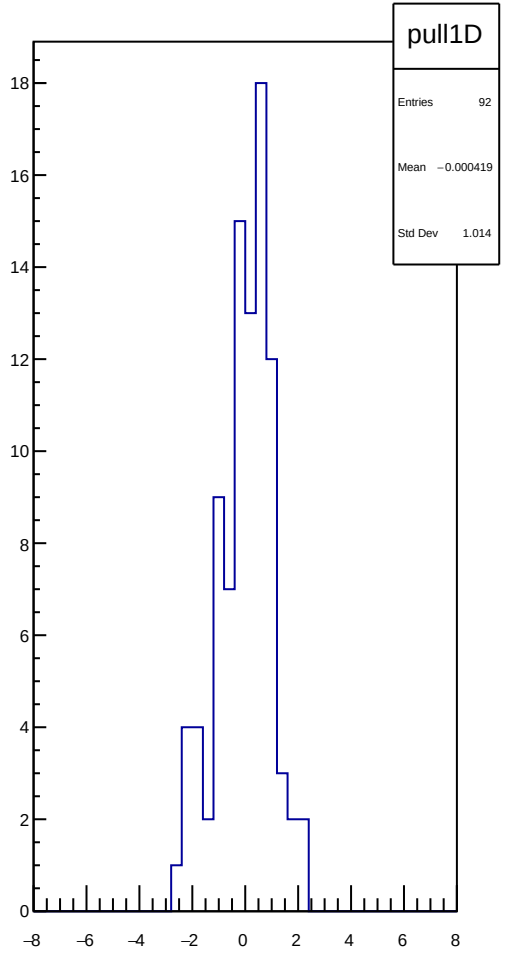

eigen_cor_asym_usr_rms vs run
χ² / ndf 273.3 / 91
p0 1093 ± 0.8349
1140
1130
1120
1110
1100
1090
1080
1070
1060

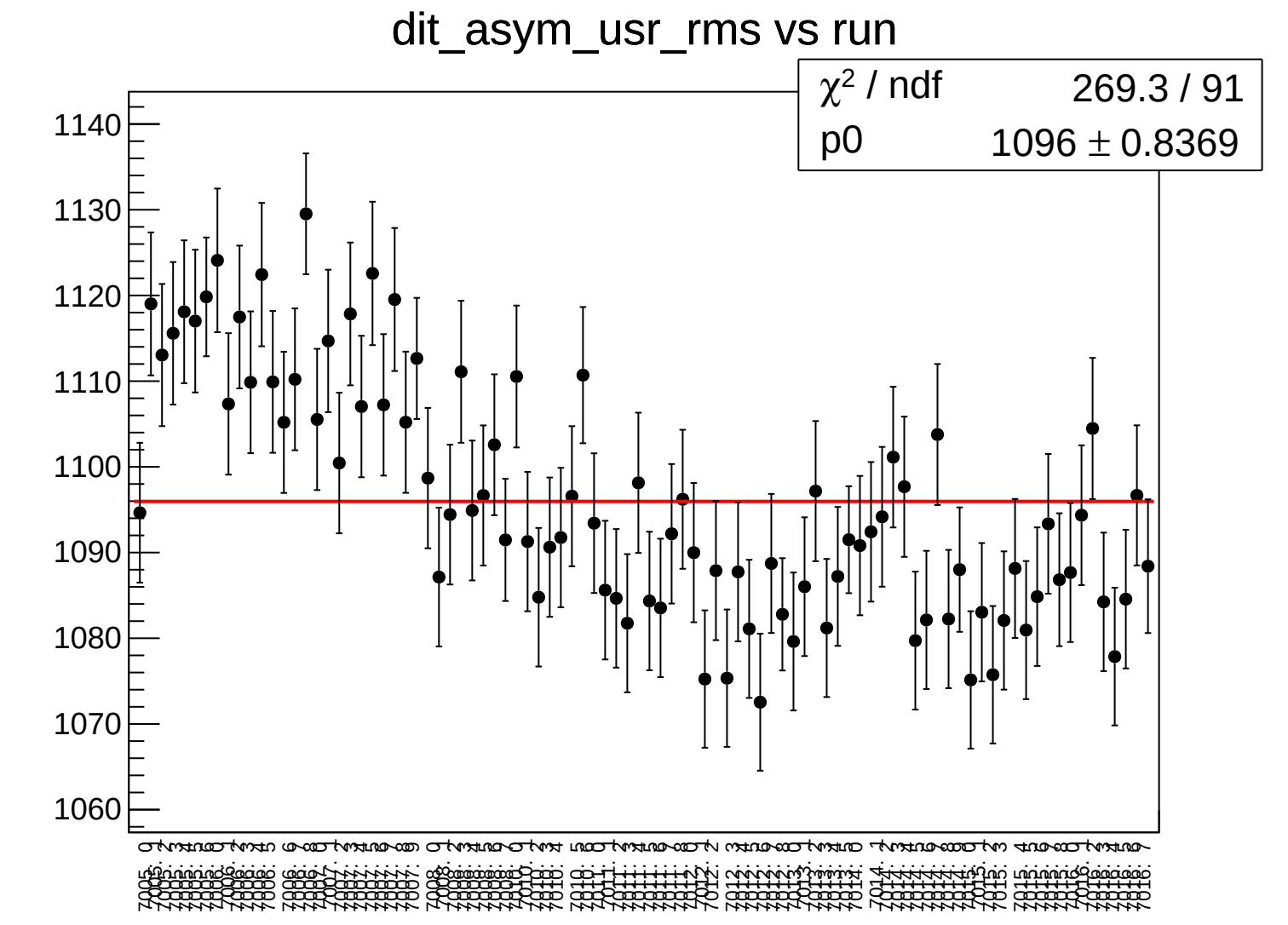

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 86.78 / 91
p0 −3258 ± 1489
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 99.18
Std Dev 139
2
1
0
−1
−2

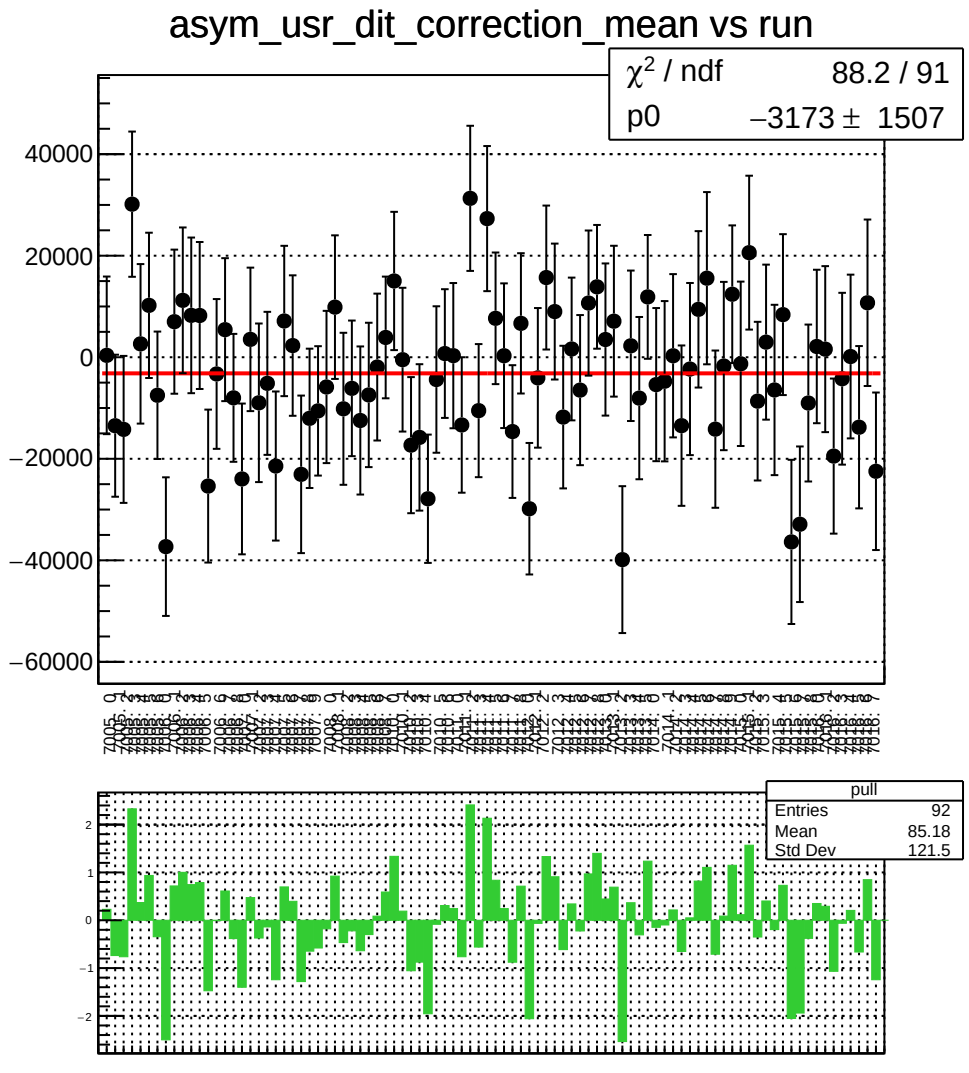

pull1D
Entries 92
Mean −0.002018
Std Dev 0.9712
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

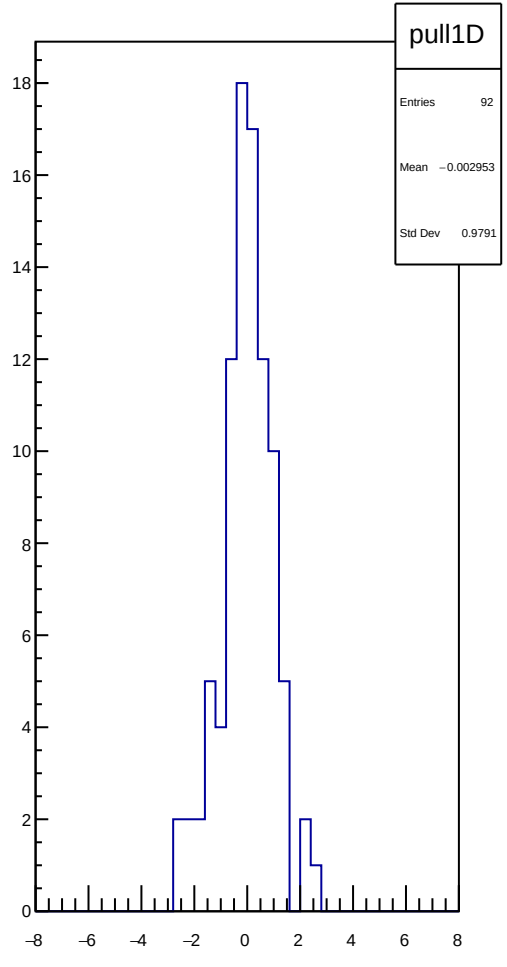

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 8154 / 91
p0 1375 ± 1.053
1600
1500
1400
1300
1200

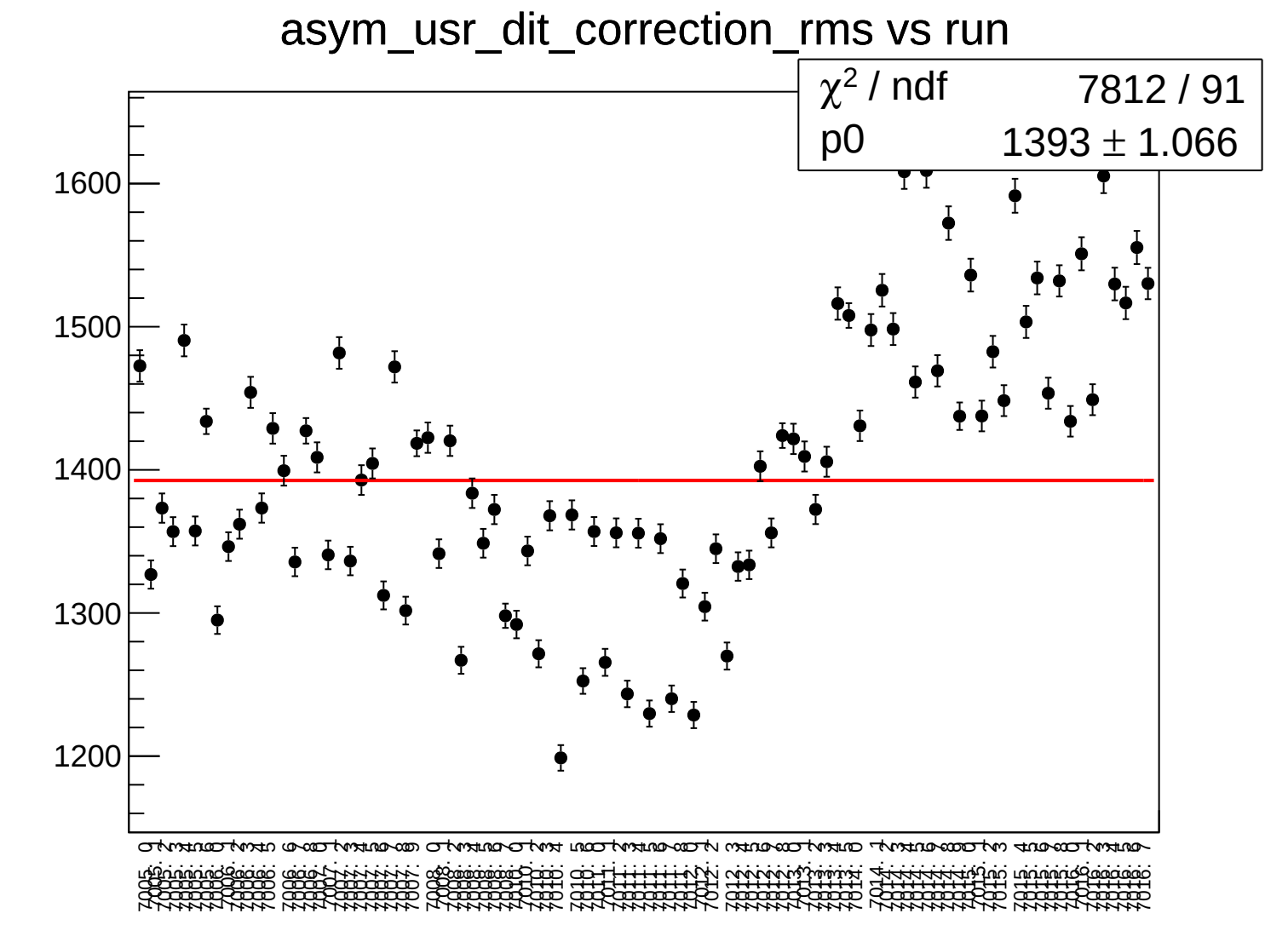

dit_asym_usr_mean vs run
χ² / ndf 94.53 / 91
p0 2251 ± 1184
pull
Entries 92
Mean 302.4
Std Dev 82.35

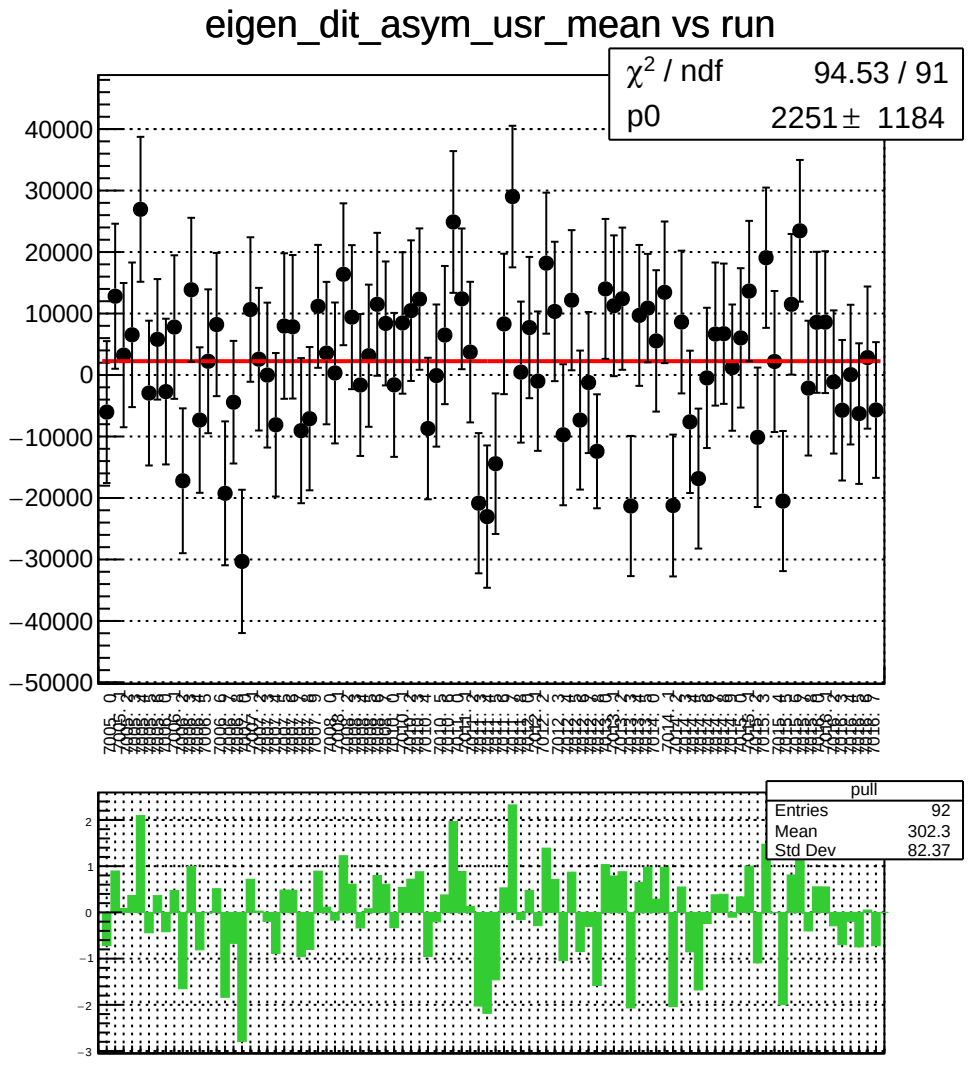

pull1D
Entries 92
Mean −0.000419
Std Dev 1.014

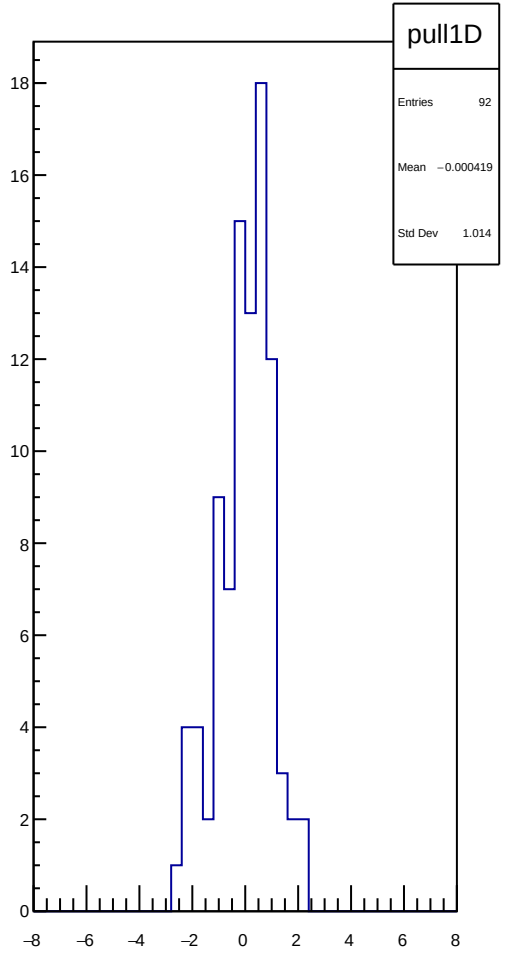

dit_asym_usr_rms vs run
χ² / ndf 269.3 / 91
p0 1096 ± 0.8369
1140
1130
1120
1110
1100
1090
1080
1070
1060

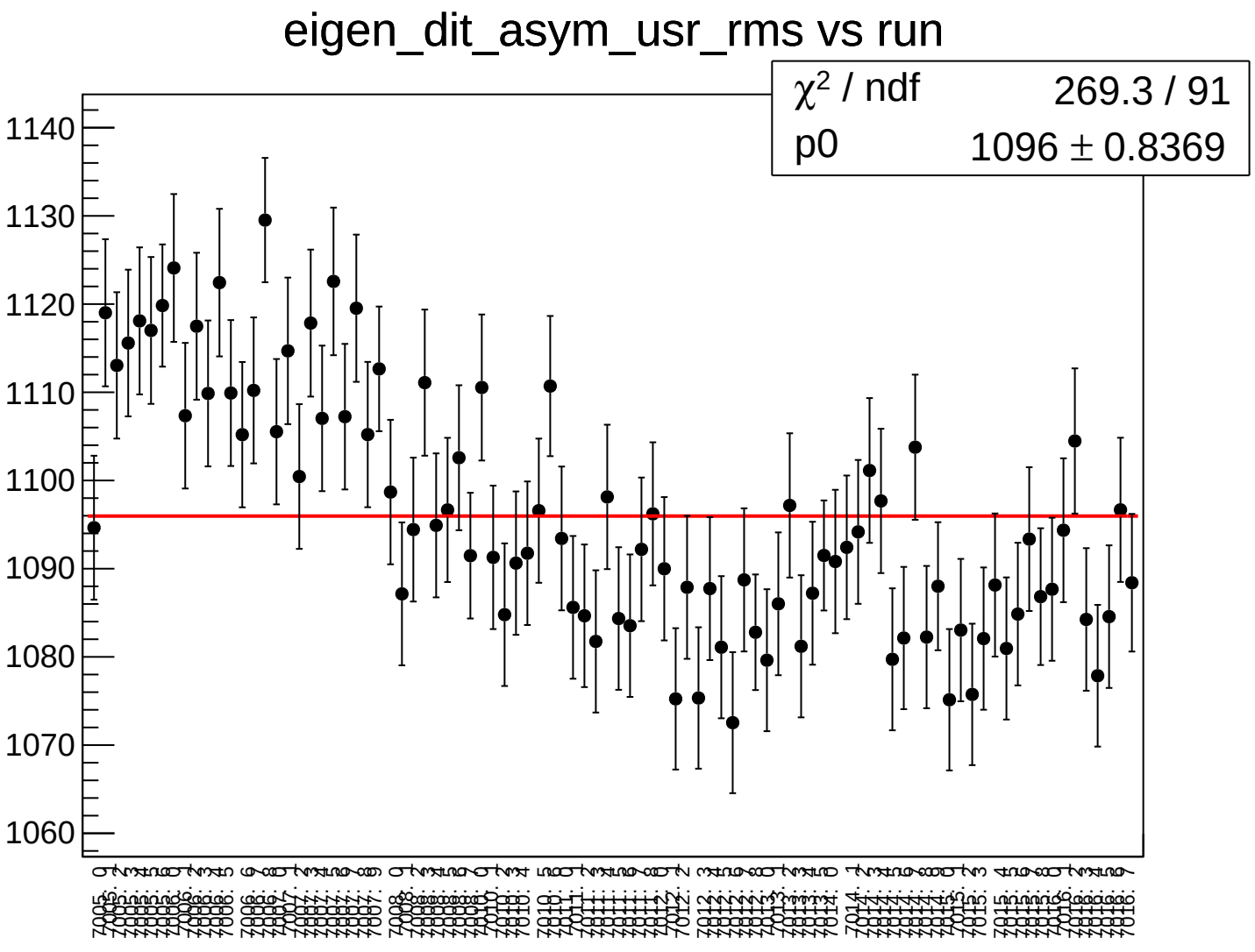

asym_usr_dit_correction_mean vs run
χ² / ndf 88.2 / 91
p0 −3173 ± 1507
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 85.18
Std Dev 121.5
2
1
0
−1
−2

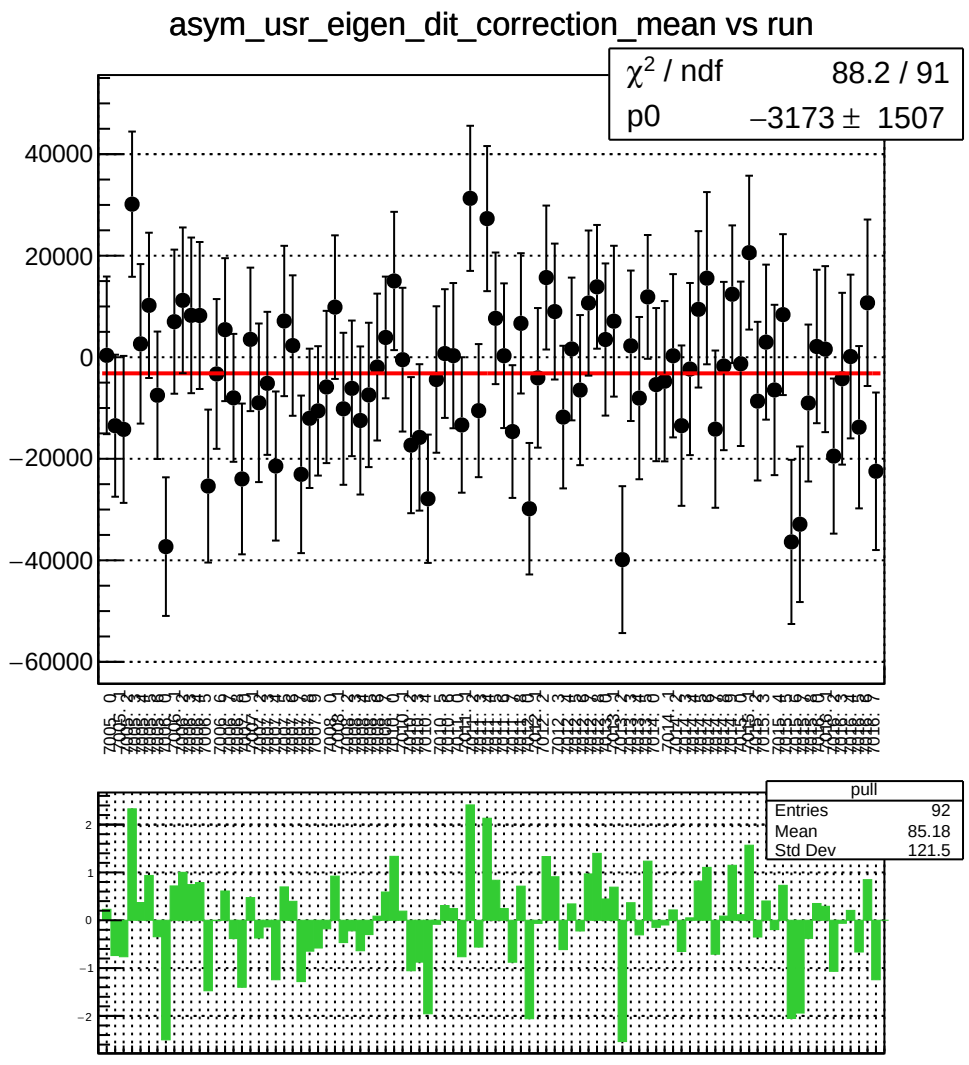

pull1D
Entries 92
Mean −0.002953
Std Dev 0.9791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

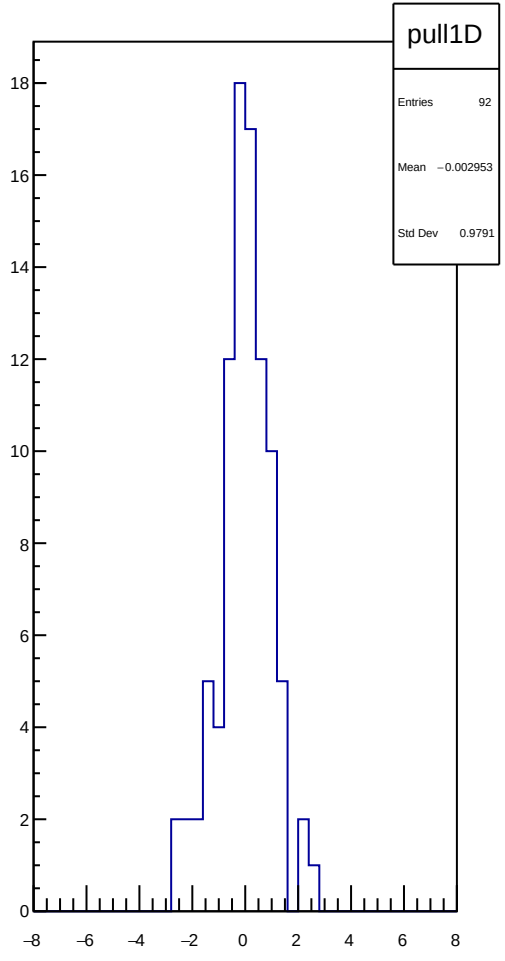

asym_usr_dit_correction_rms vs run
χ² / ndf 7812 / 91
p0 1393 ± 1.066
1600
1500
1400
1300
1200

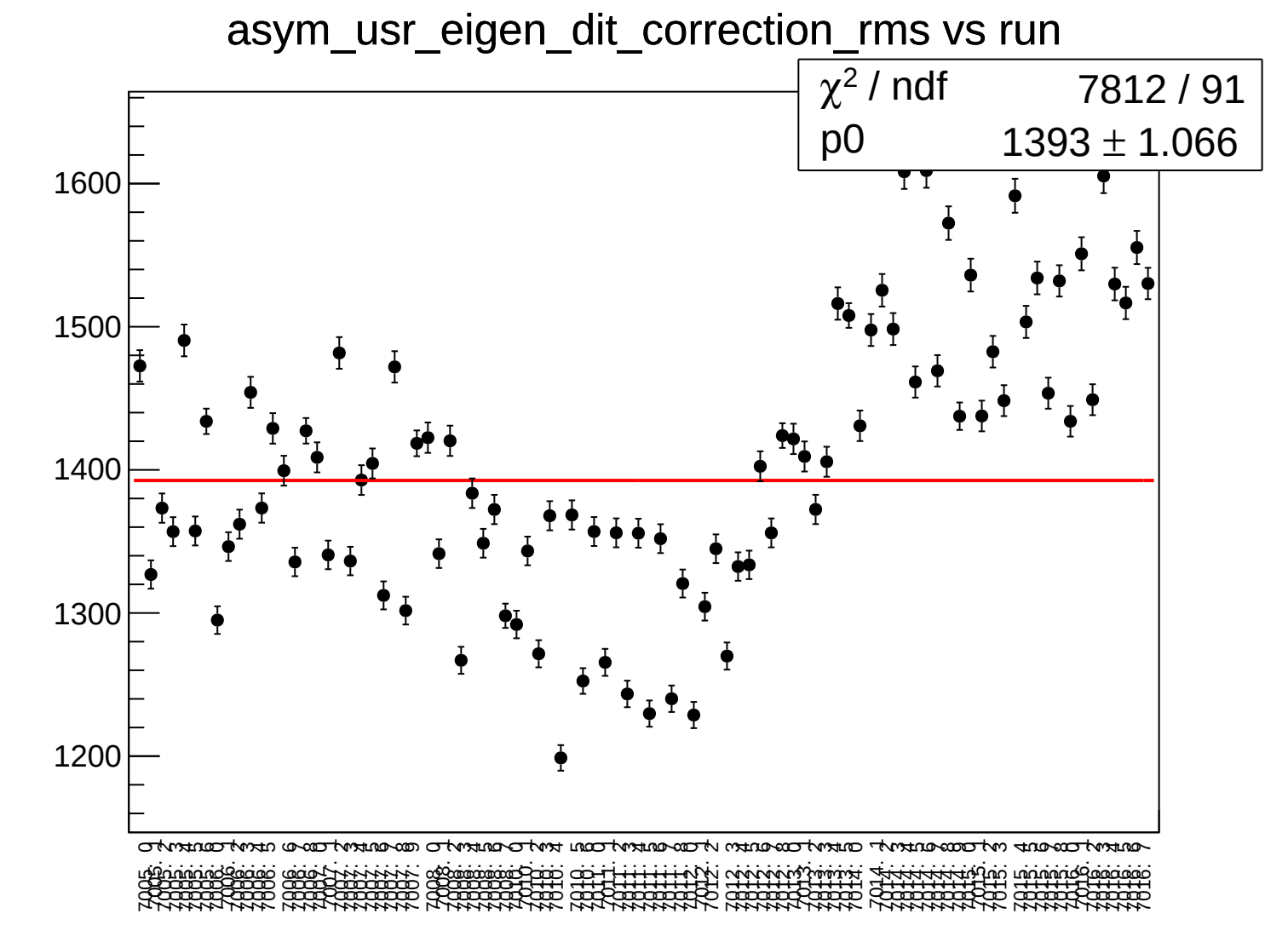

eigen_dit_asym_usr_mean vs run
χ² / ndf 94.53 / 91
p0 2251 ± 1184
pull
Entries 92
Mean 302.3
Std Dev 82.37

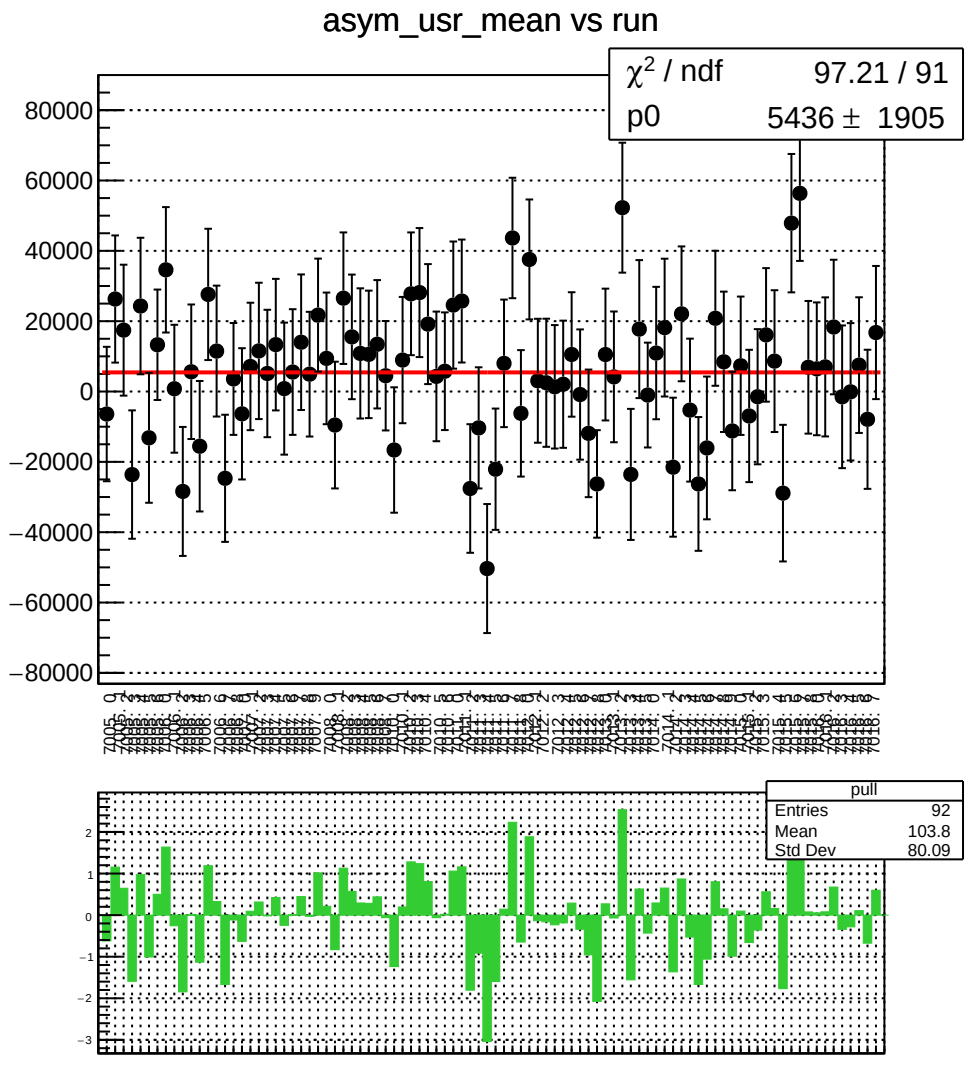

pull1D
Entries 92
Mean −0.000419
Std Dev 1.014

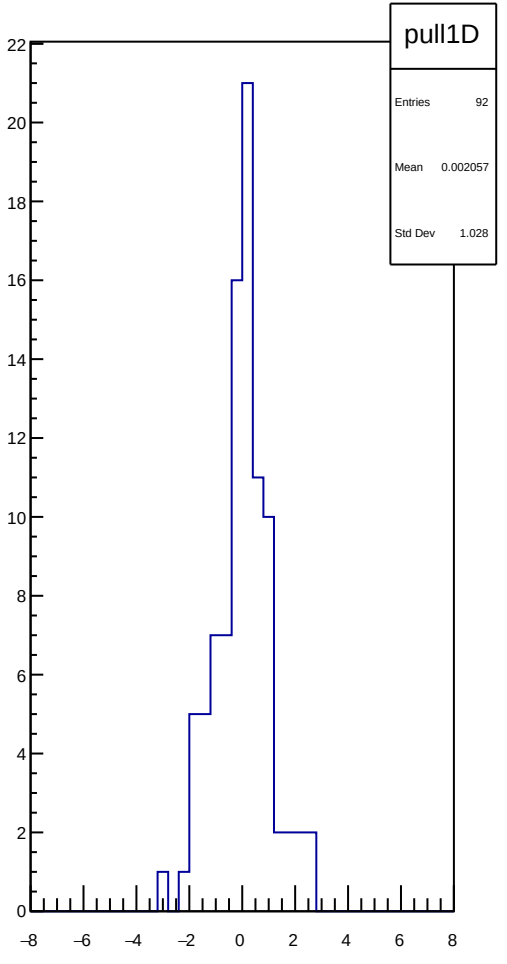

eigen_dit_asym_usr_rms vs run
χ² / ndf 269.3 / 91
p0 1096 ± 0.8369
1140
1130
1120
1110
1100
1090
1080
1070
1060

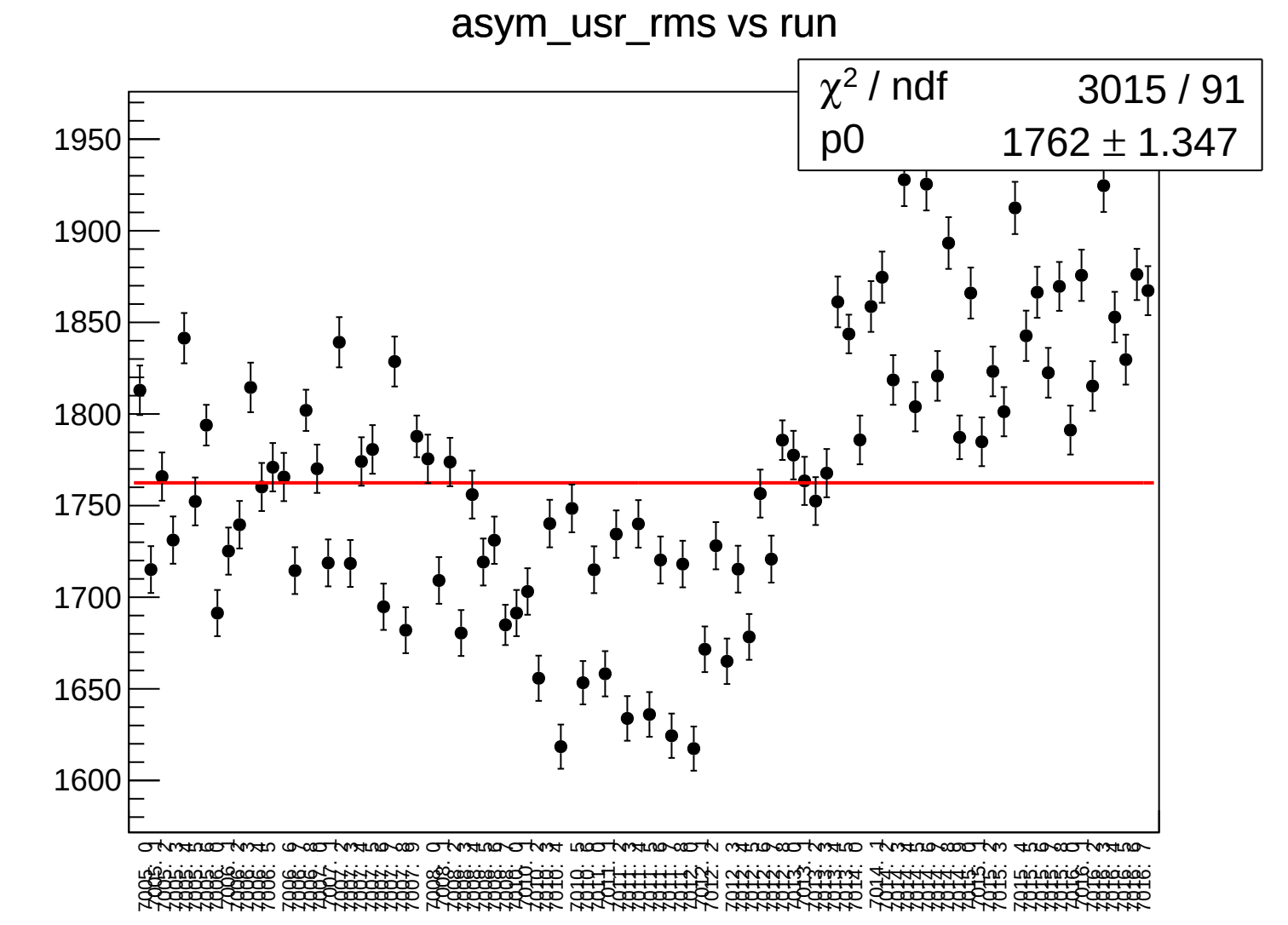

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 88.2 / 91
p0 −3173 ± 1507
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 85.18
Std Dev 121.5
2
1
0
−1
−2

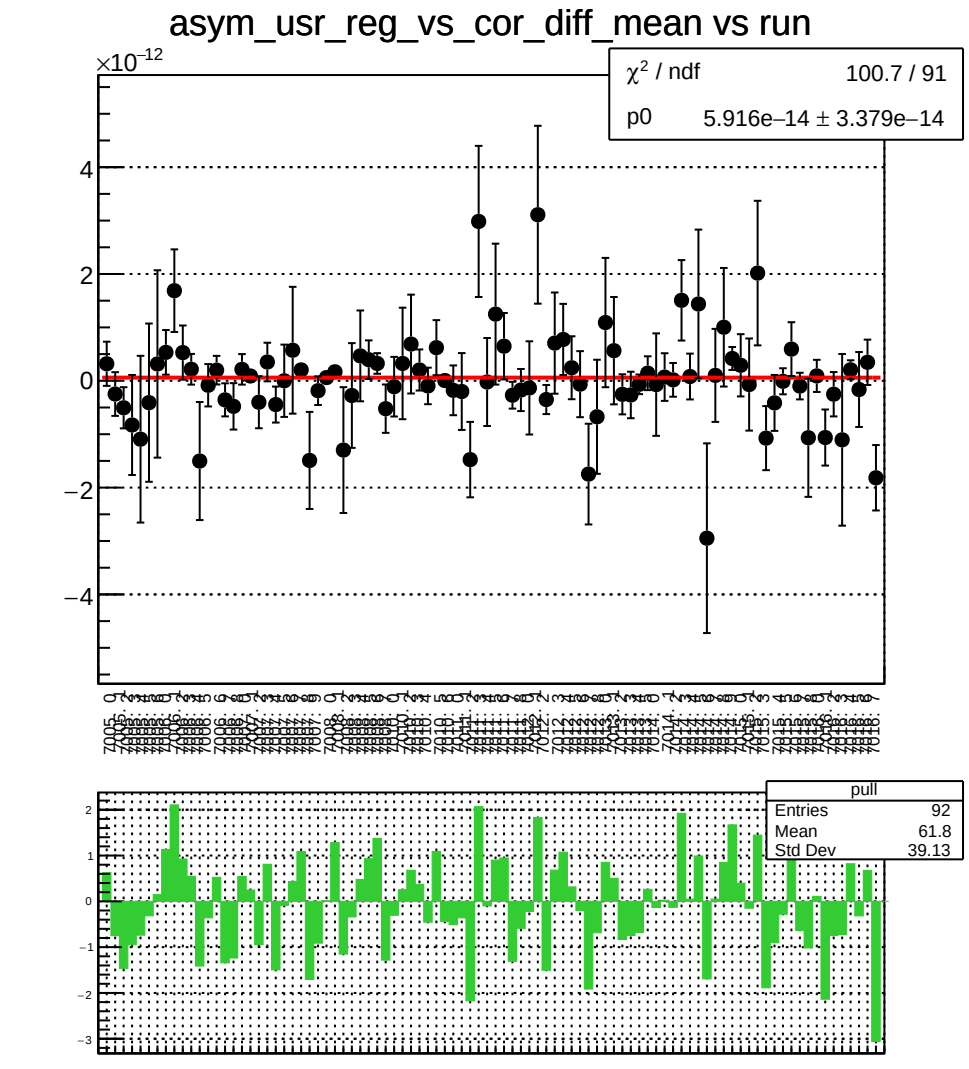

pull1D
Entries 92
Mean −0.002953
Std Dev 0.9791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

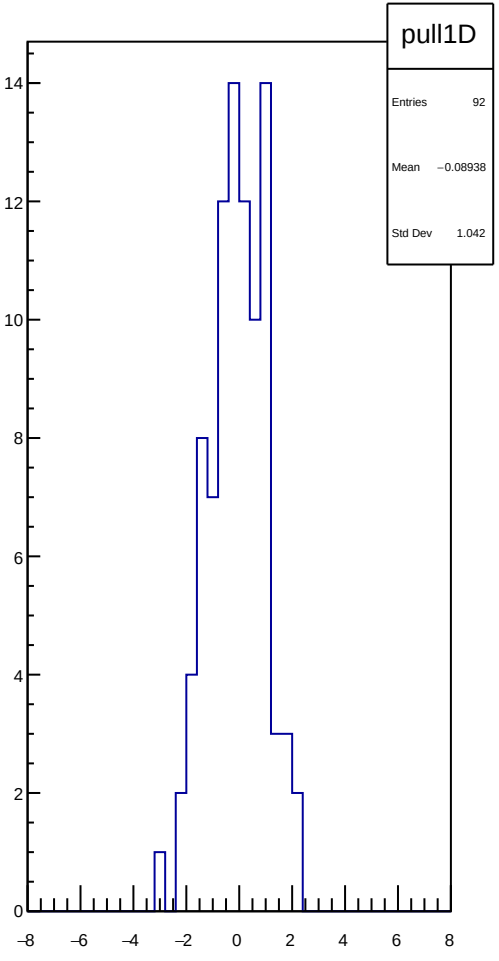

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 7812 / 91
p0 1393 ± 1.066
1600
1500
1400
1300
1200


asym_usr_mean vs run
χ² / ndf 97.21 / 91
p0 5436 ± 1905
pull
Entries 92
Mean 103.8
Std Dev 80.09

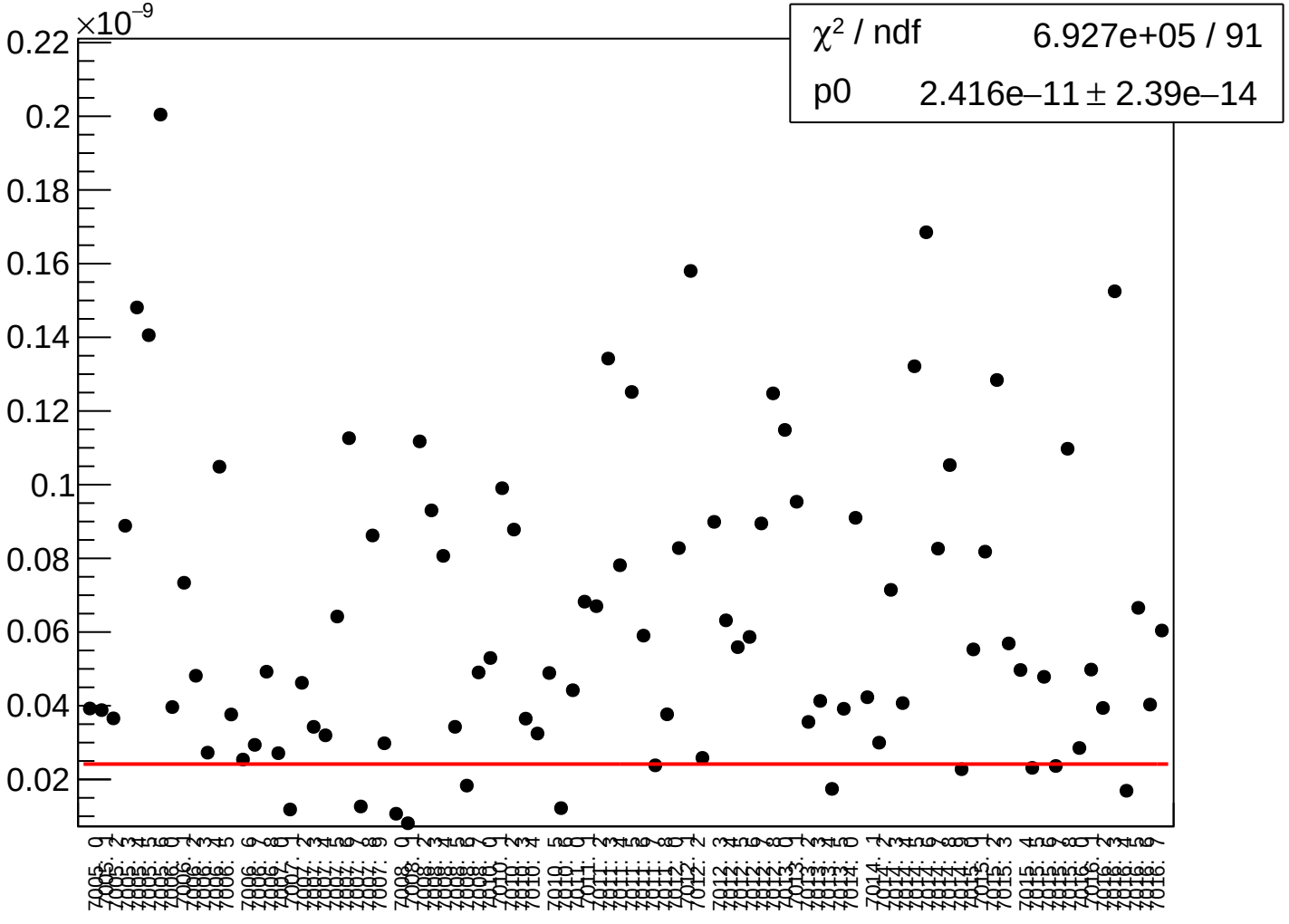

pull1D
Entries 92
Mean 0.002057
Std Dev 1.028

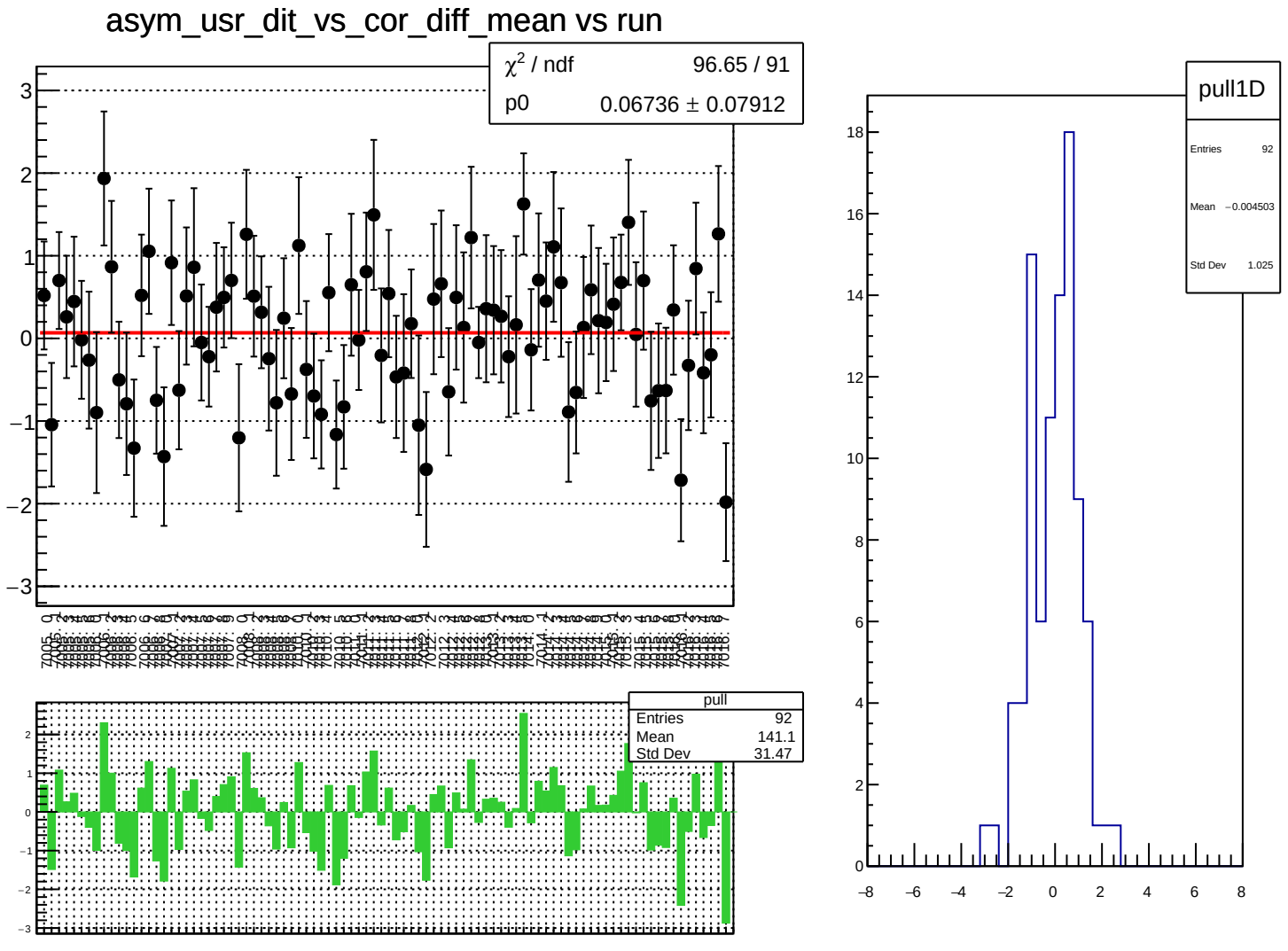

asym_usr_rms vs run
χ² / ndf 3015 / 91
p0 1762 ± 1.347
1950
1900
1850
1800
1750
1700
1650
1600

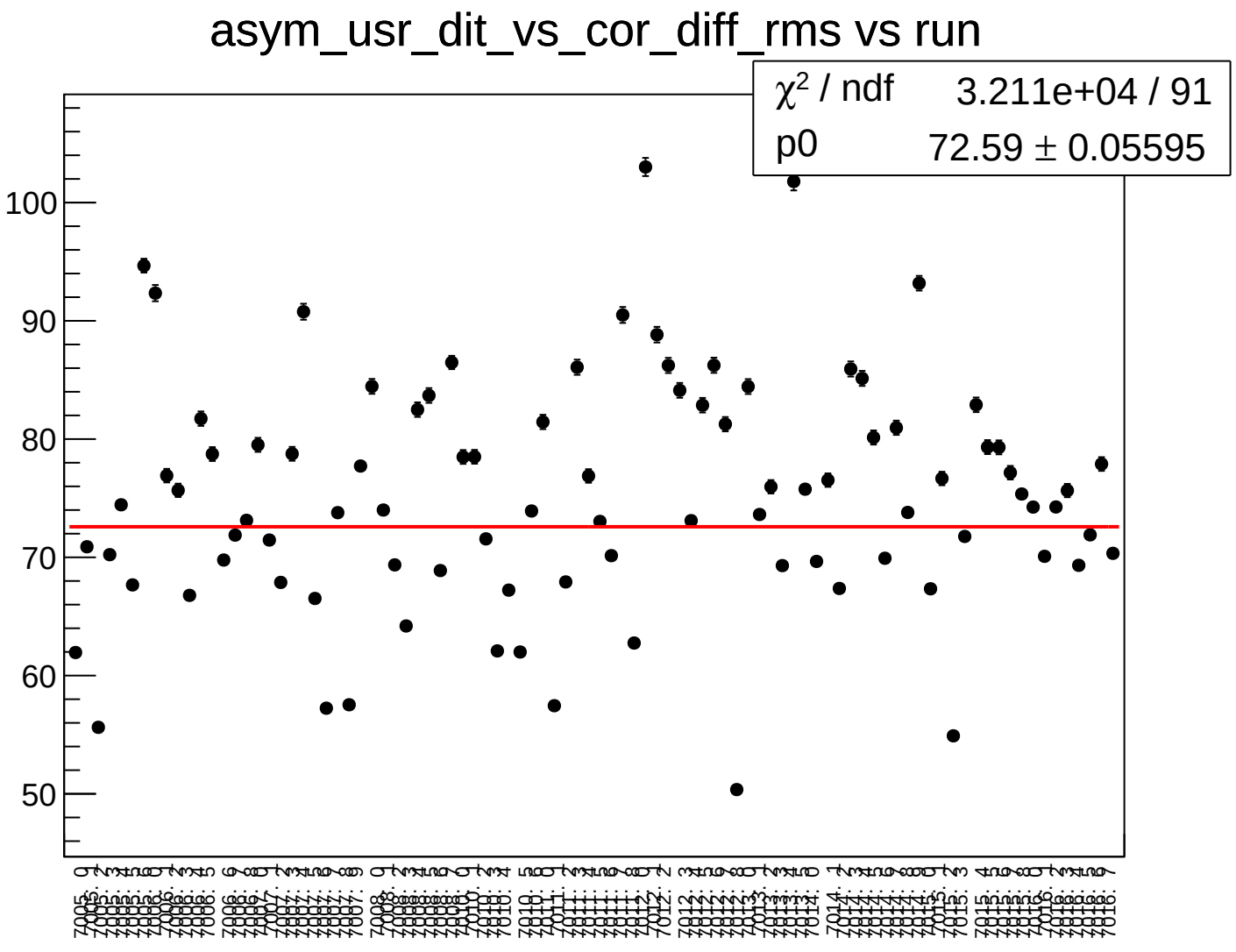

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.7 / 91
p0 5.916e−14 ± 3.379e−14
pull
Entries 92
Mean 61.8
Std Dev 39.13

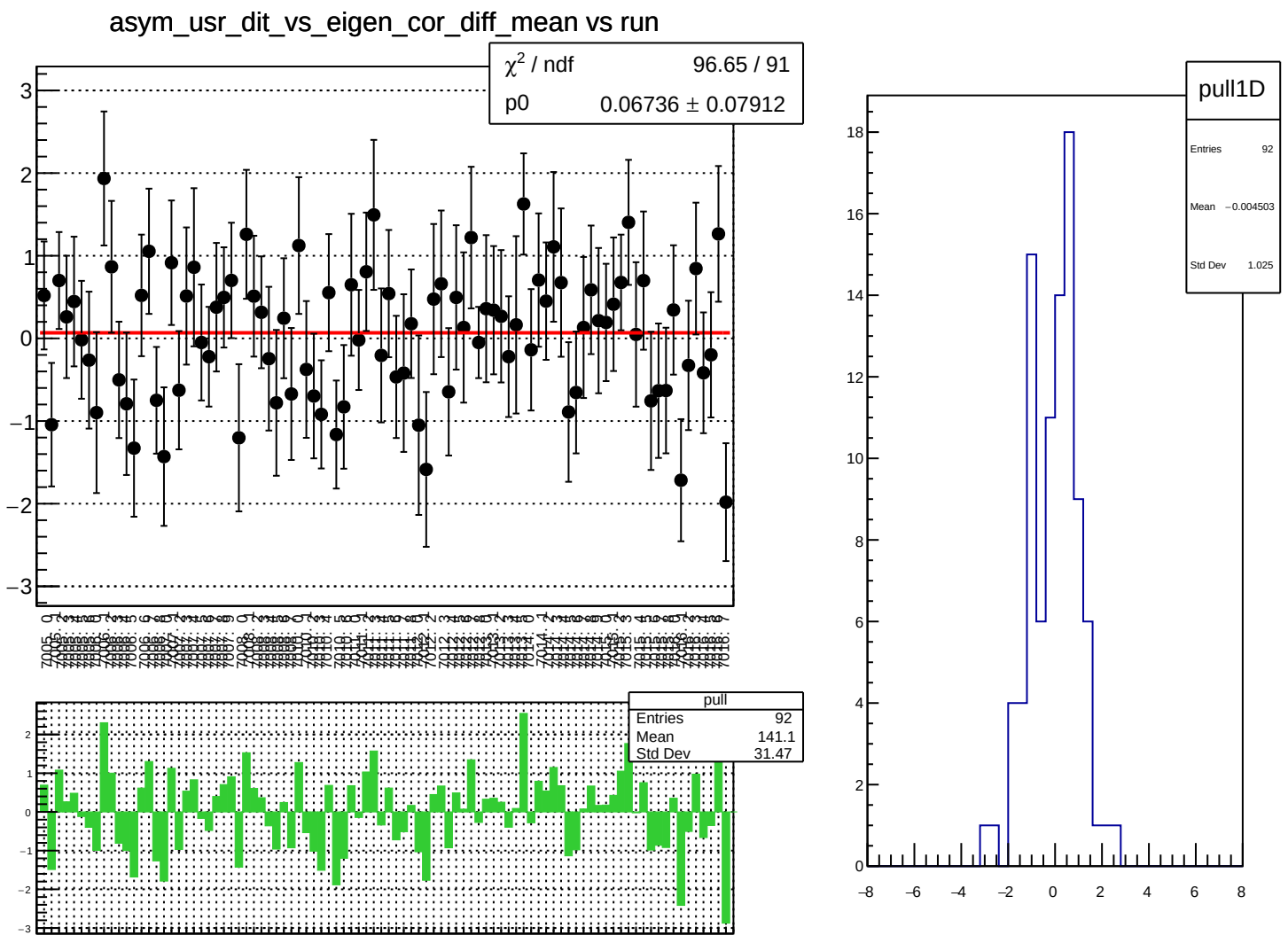

pull1D
Entries 92
Mean −0.08938
Std Dev 1.042

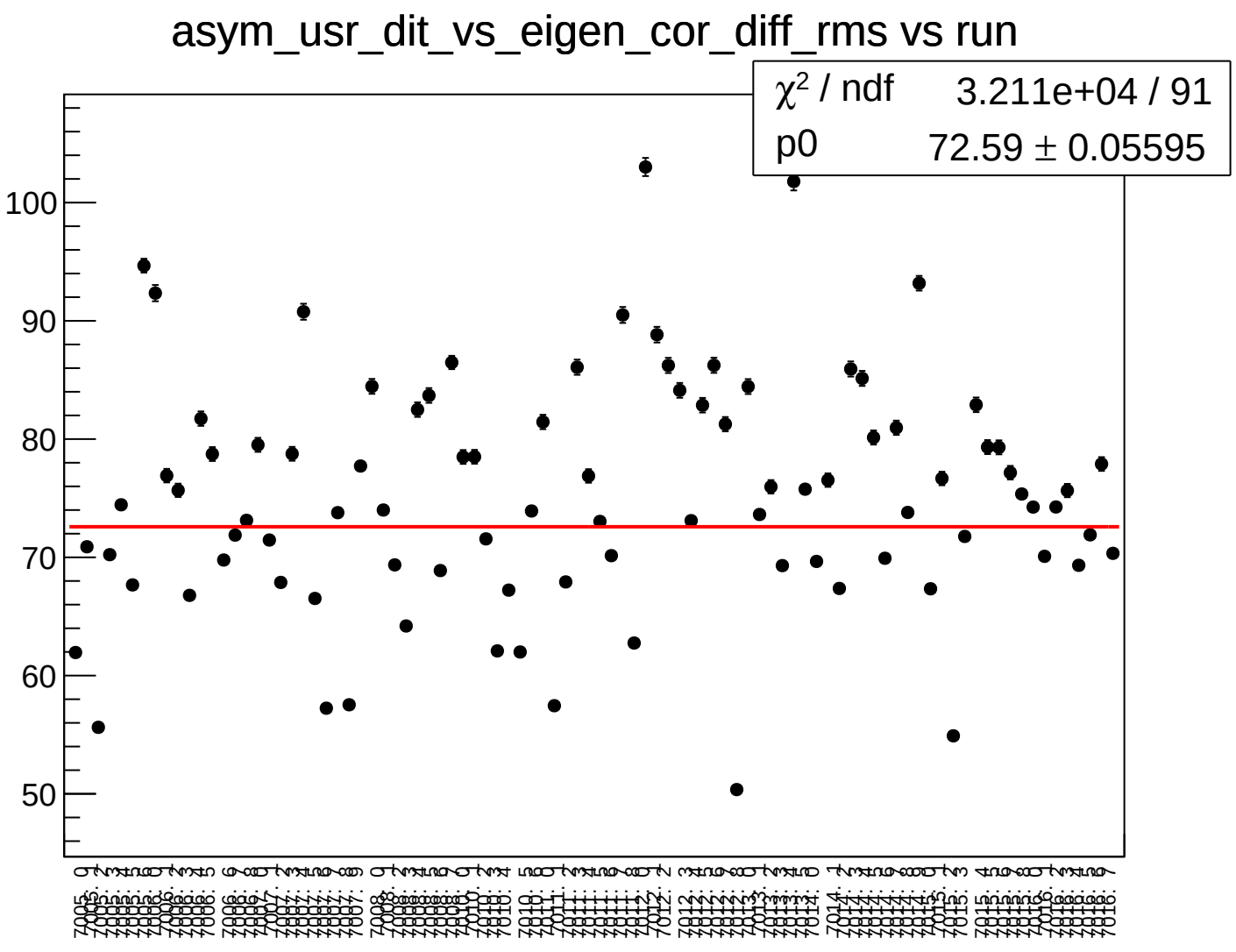
# asym_usr_reg_vs_cor_diff_rms vs run

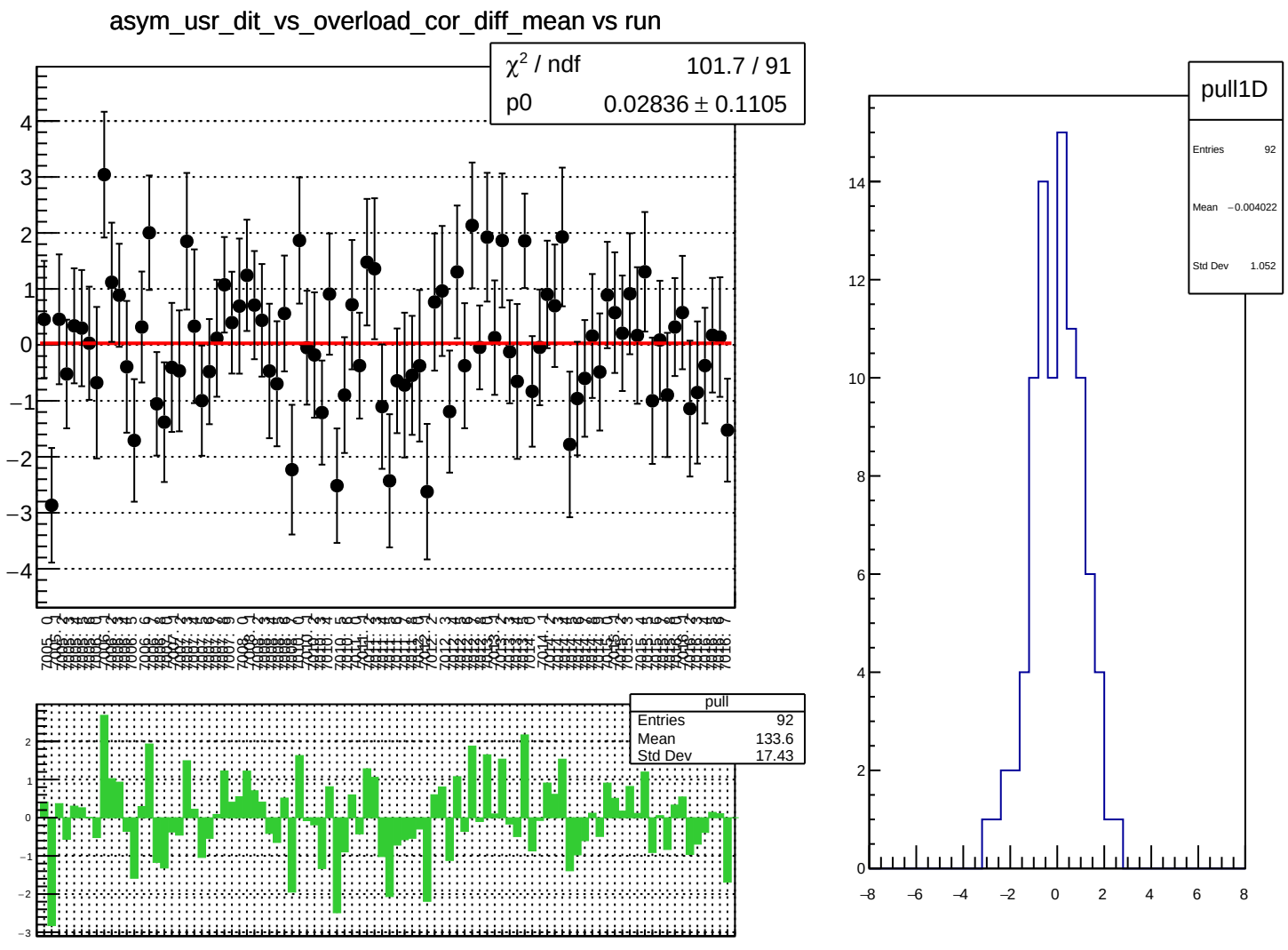


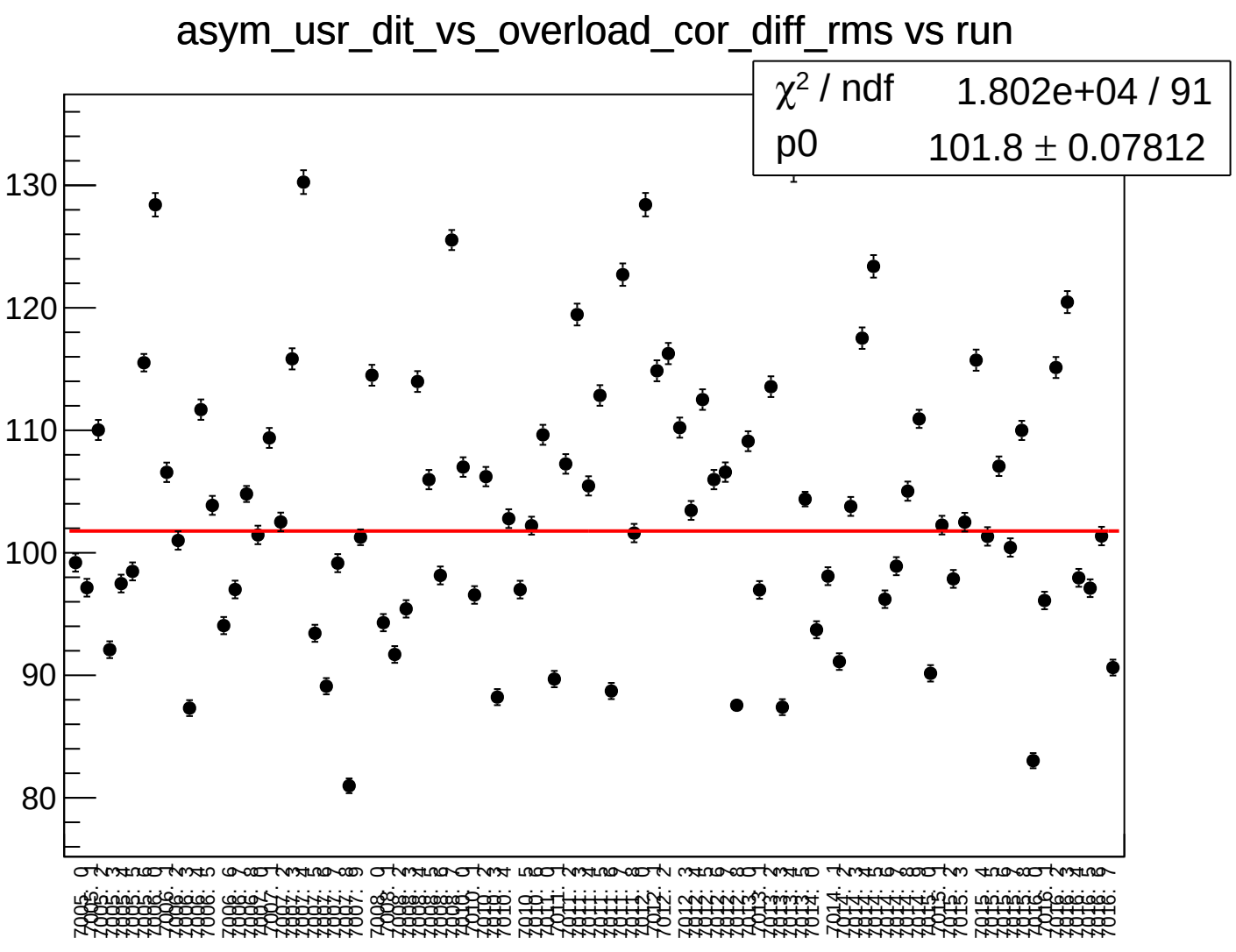

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 96.65 / 91
p0 0.06736 ± 0.07912
pull
Entries 92
Mean 141.1
Std Dev 31.47
pull1D
Entries 92
Mean −0.004503
Std Dev 1.025

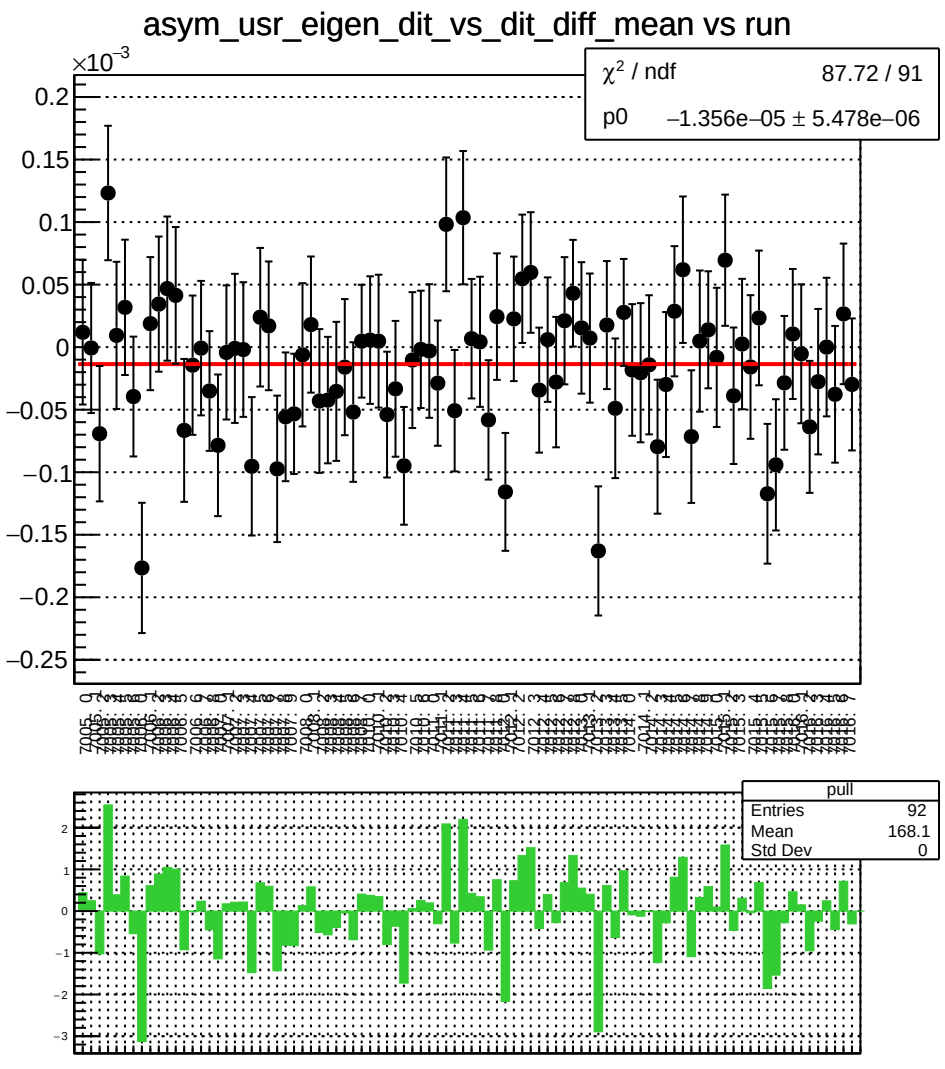

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.211e+04 / 91
p0 72.59 ± 0.05595
100
90
80
70
60
50

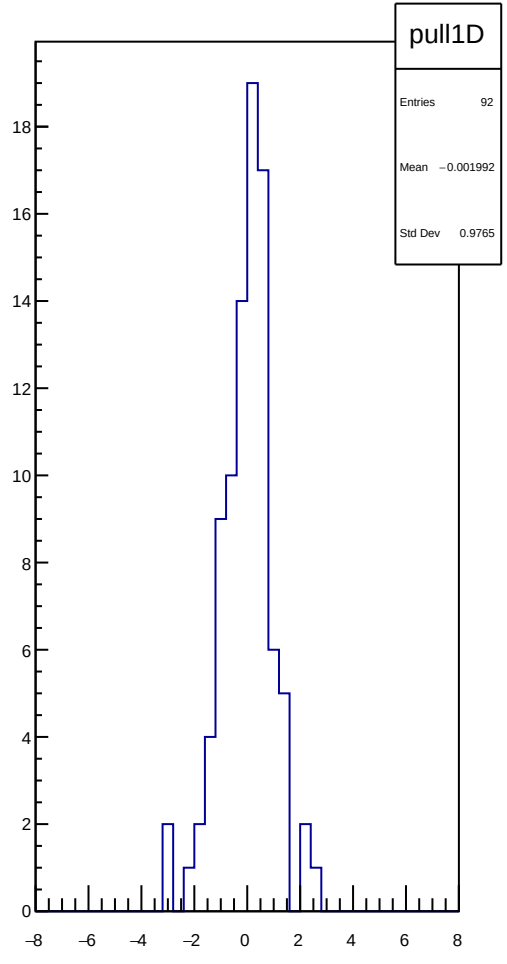

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.65 / 91
p0 0.06736 ± 0.07912
pull
Entries 92
Mean 141.1
Std Dev 31.47
pull1D
Entries 92
Mean −0.004503
Std Dev 1.025

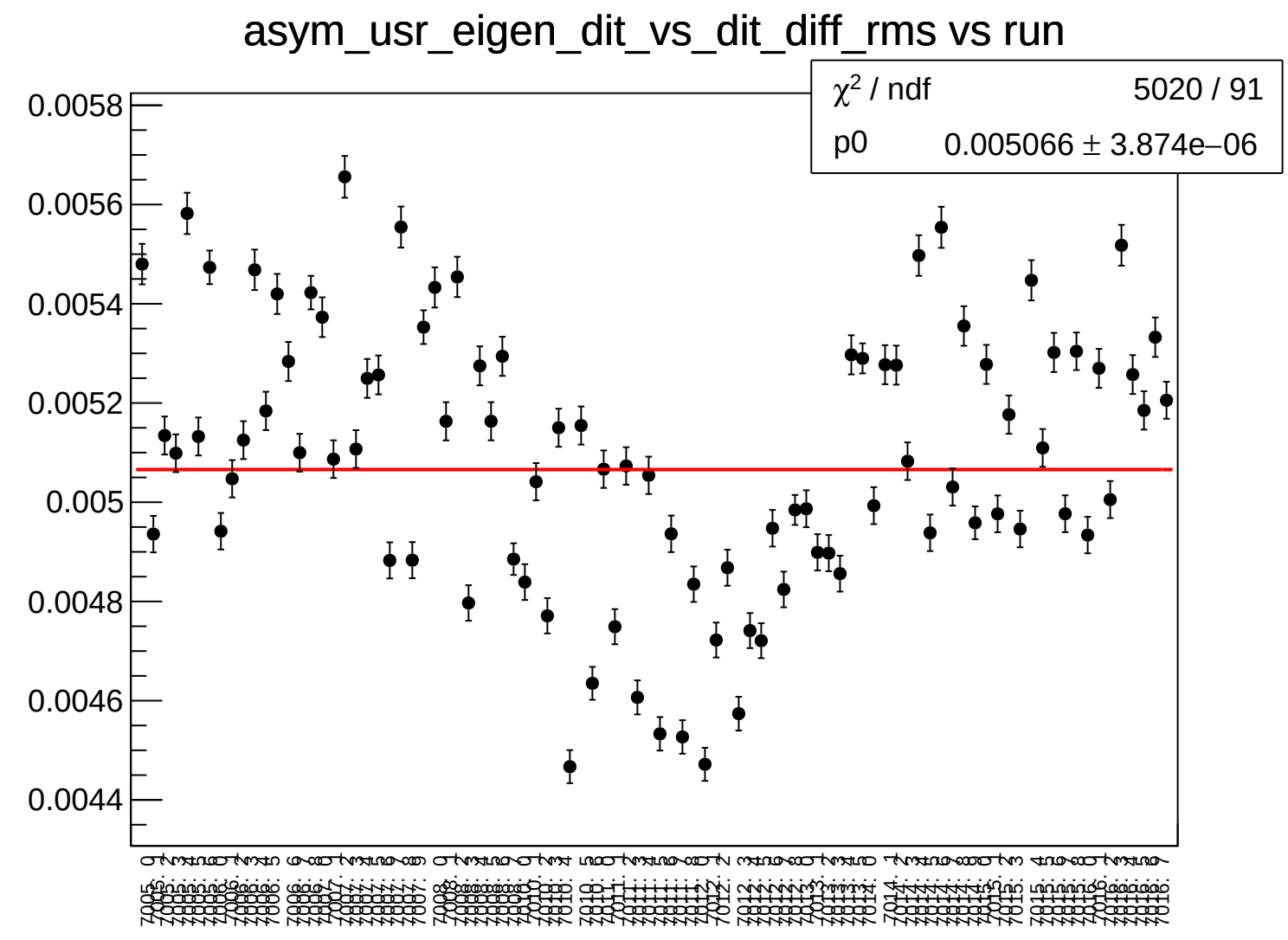

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.211e+04 / 91
p0 72.59 ± 0.05595
100
90
80
70
60
50

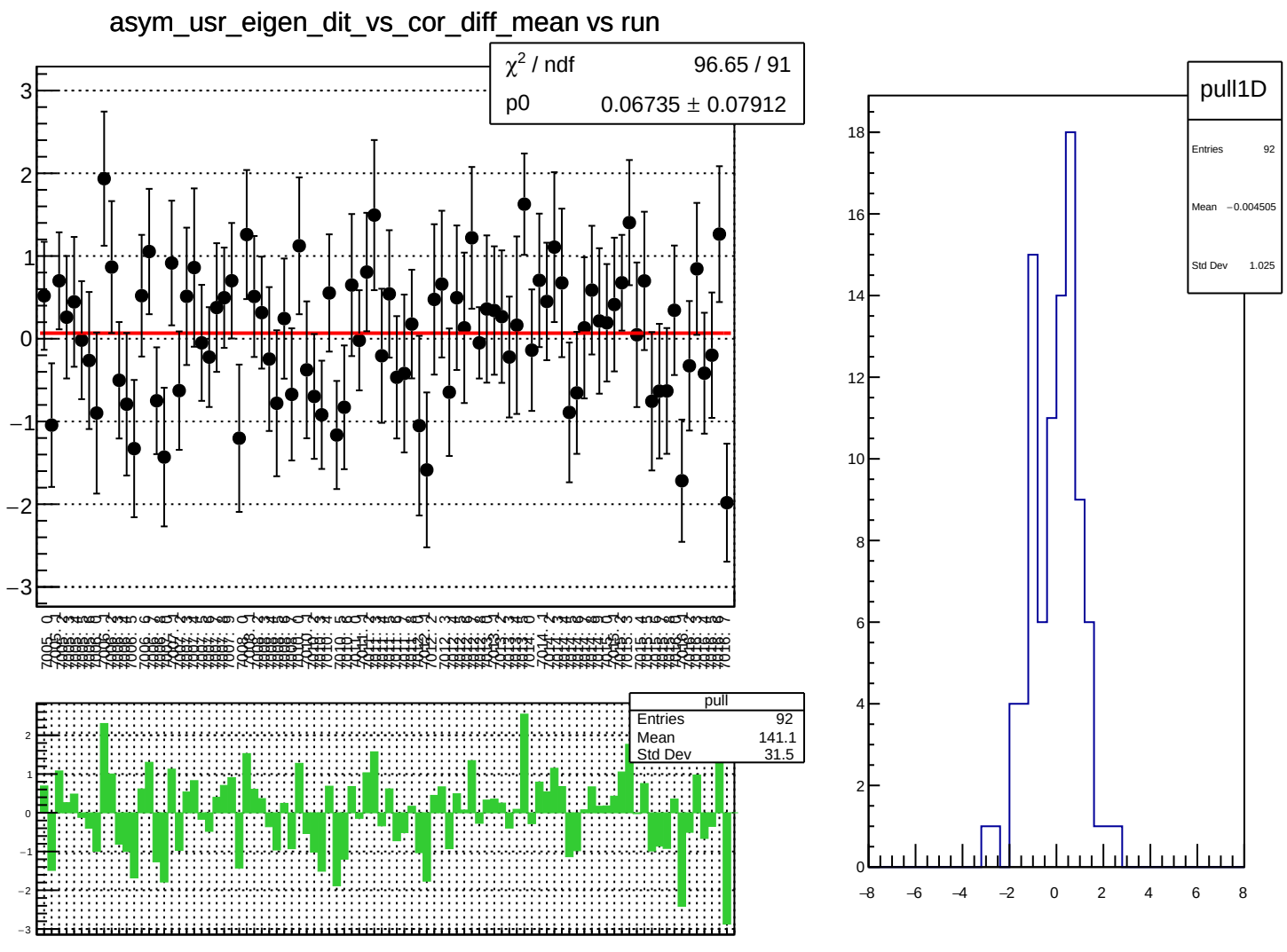

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 101.7 / 91
p0 0.02836 ± 0.1105
pull
Entries 92
Mean 133.6
Std Dev 17.43
pull1D
Entries 92
Mean −0.004022
Std Dev 1.052

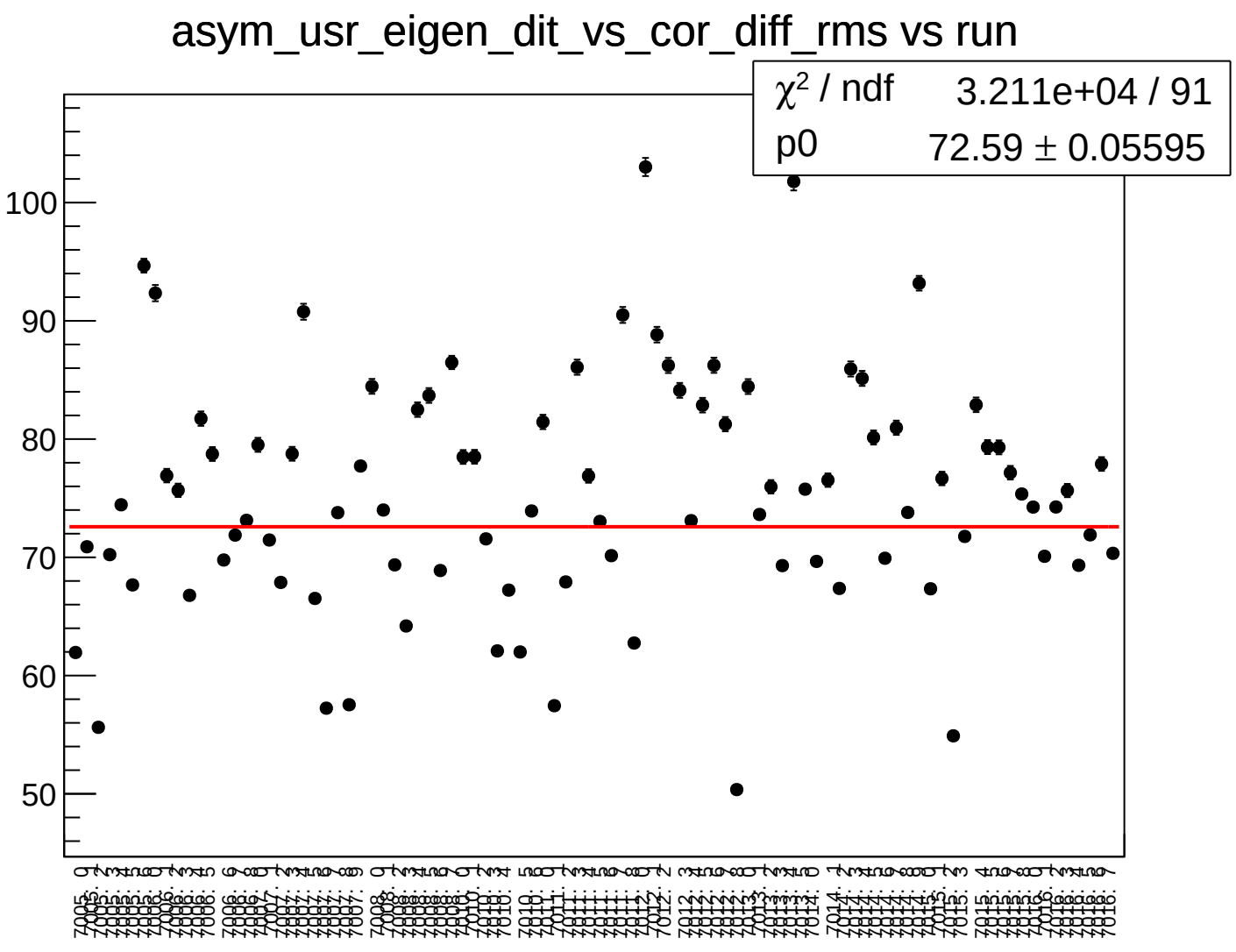

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.802e+04 / 91
p0 101.8 ± 0.07812
130
120
110
100
90
80

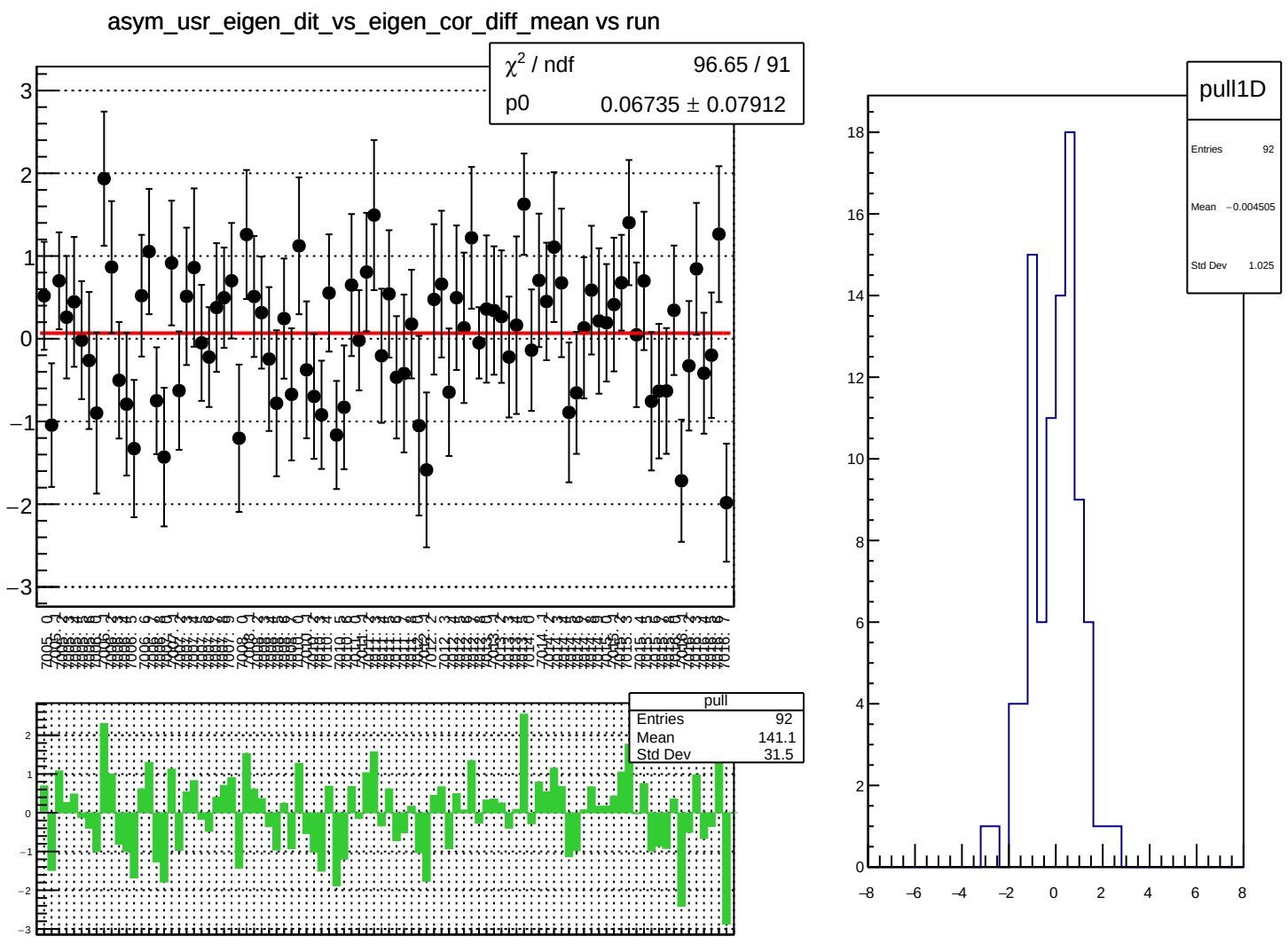

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.72 / 91
p0 −1.356e−05 ± 5.478e−06
pull
Entries 92
Mean 168.1
Std Dev 0

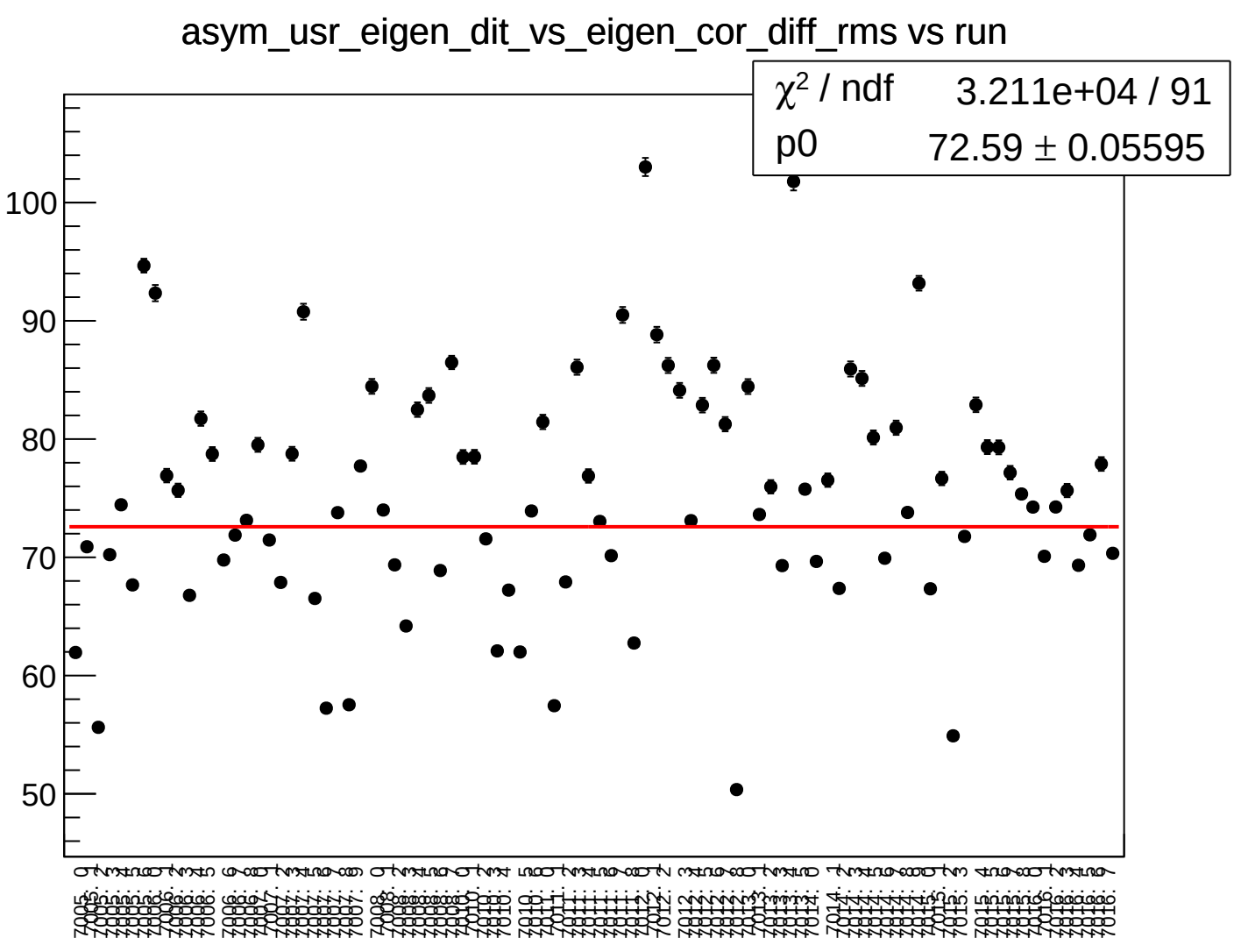

pull1D
Entries 92
Mean −0.001992
Std Dev 0.9765

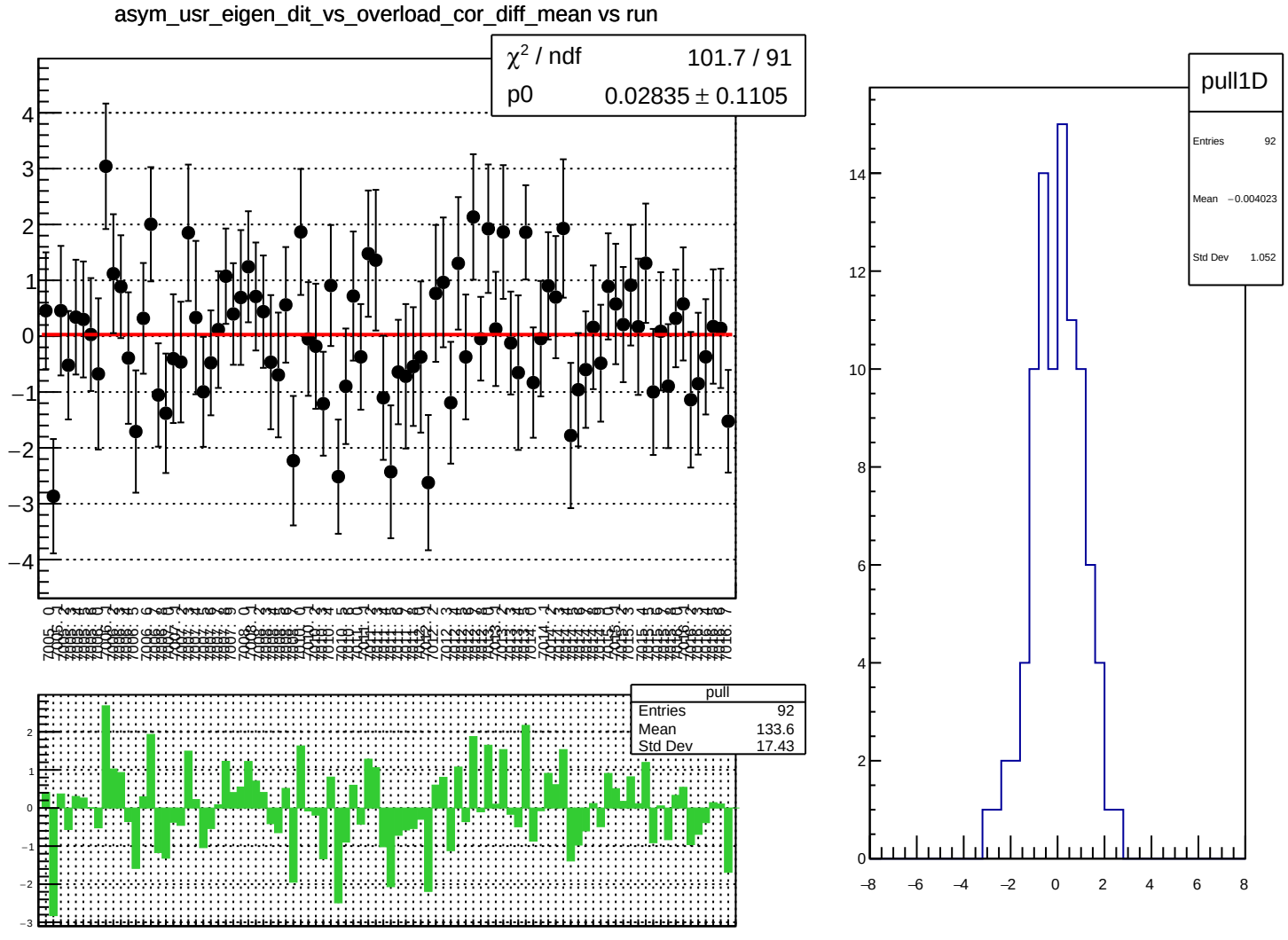

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5020 / 91
p0 0.005066 ± 3.874e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

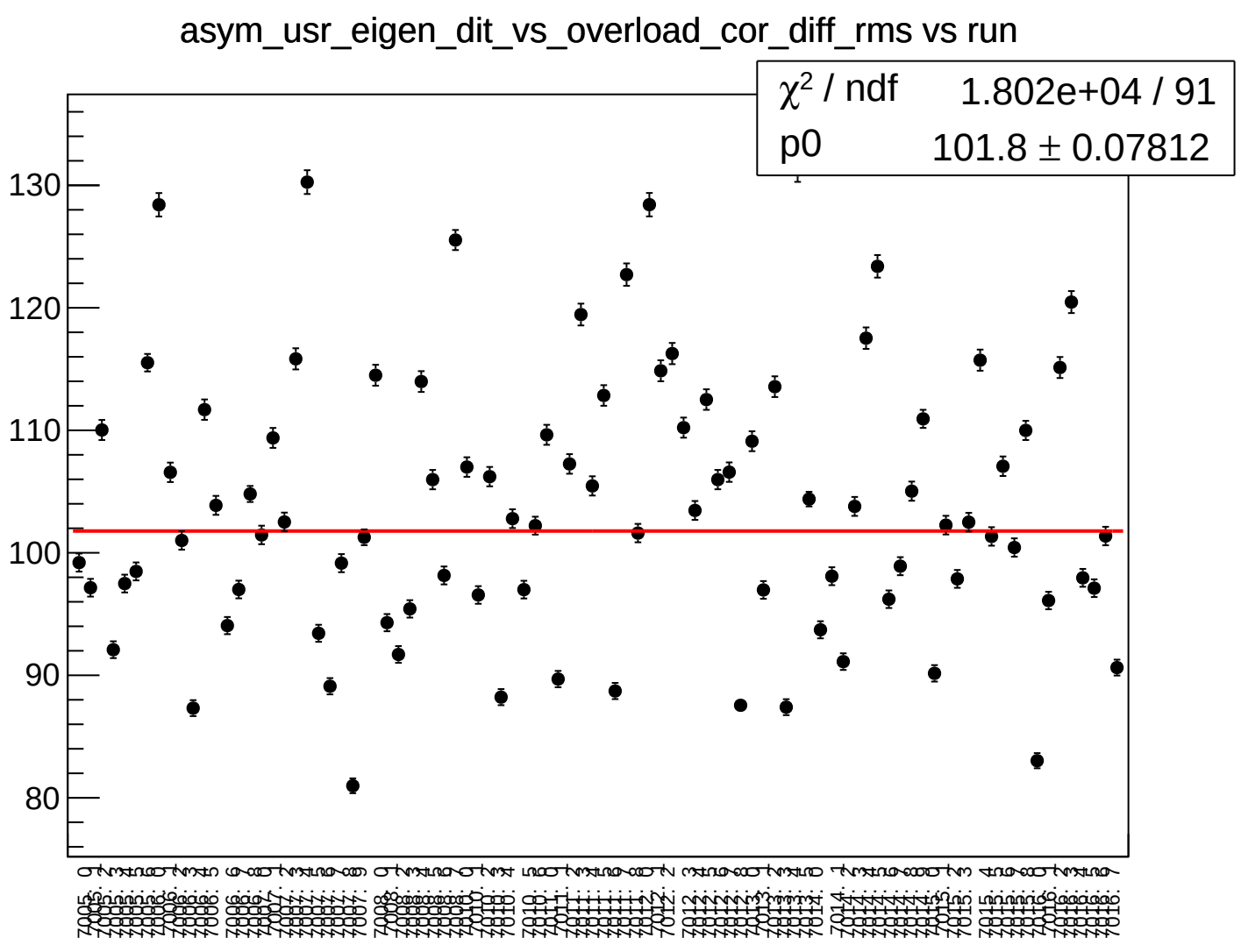

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.65 / 91
p0 0.06735 ± 0.07912
pull
Entries 92
Mean 141.1
Std Dev 31.5
pull1D
Entries 92
Mean −0.004505
Std Dev 1.025

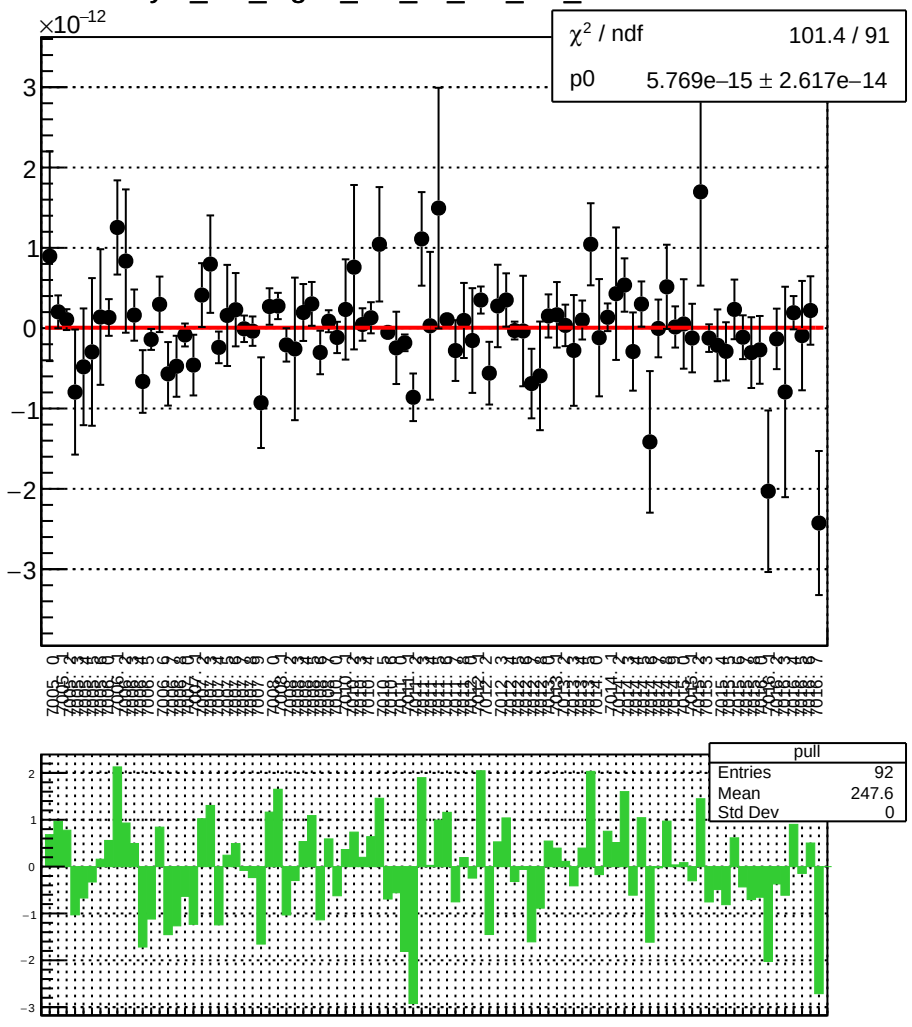

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.211e+04 / 91
p0 72.59 ± 0.05595
100
90
80
70
60
50

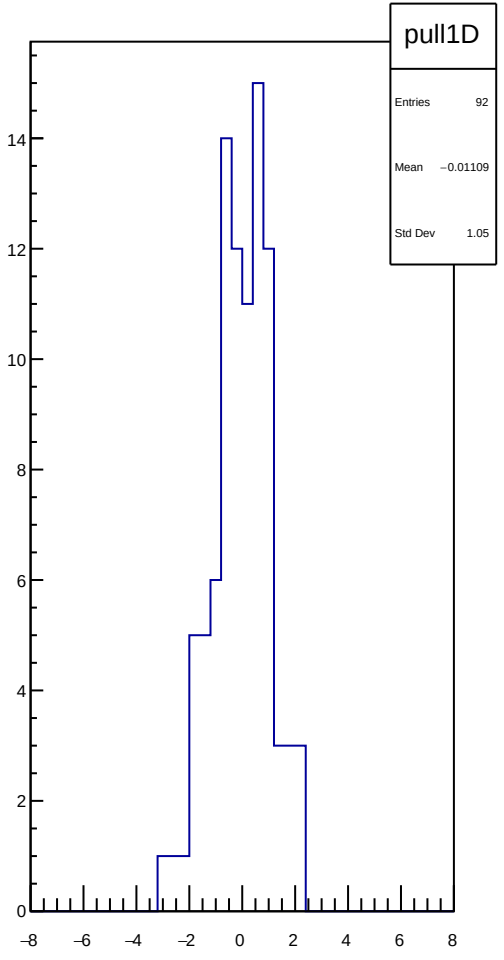

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.65 / 91
p0 0.06735 ± 0.07912
pull
Entries 92
Mean 141.1
Std Dev 31.5
pull1D
Entries 92
Mean −0.004505
Std Dev 1.025

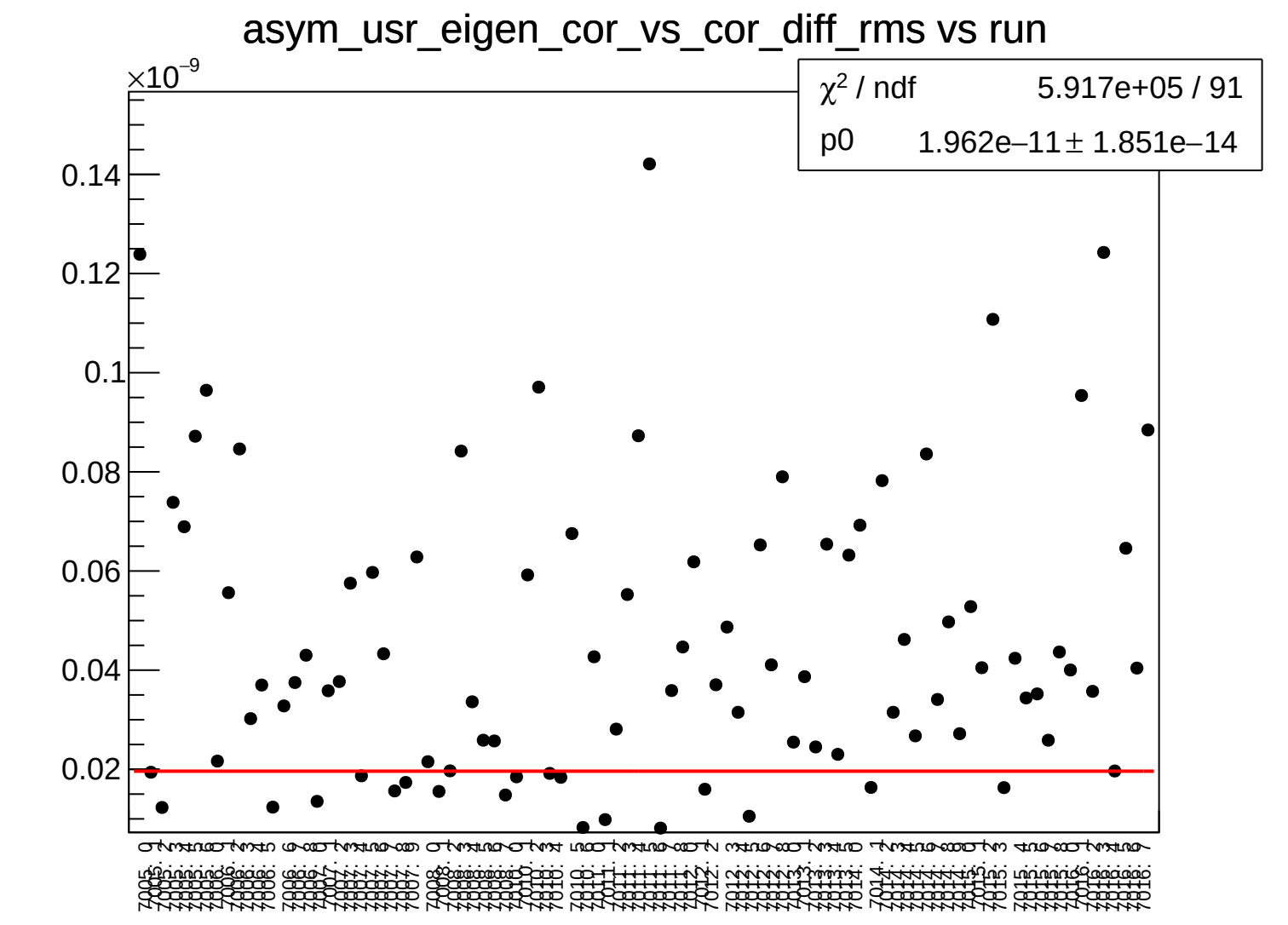

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.211e+04 / 91
p0 72.59 ± 0.05595
100
90
80
70
60
50

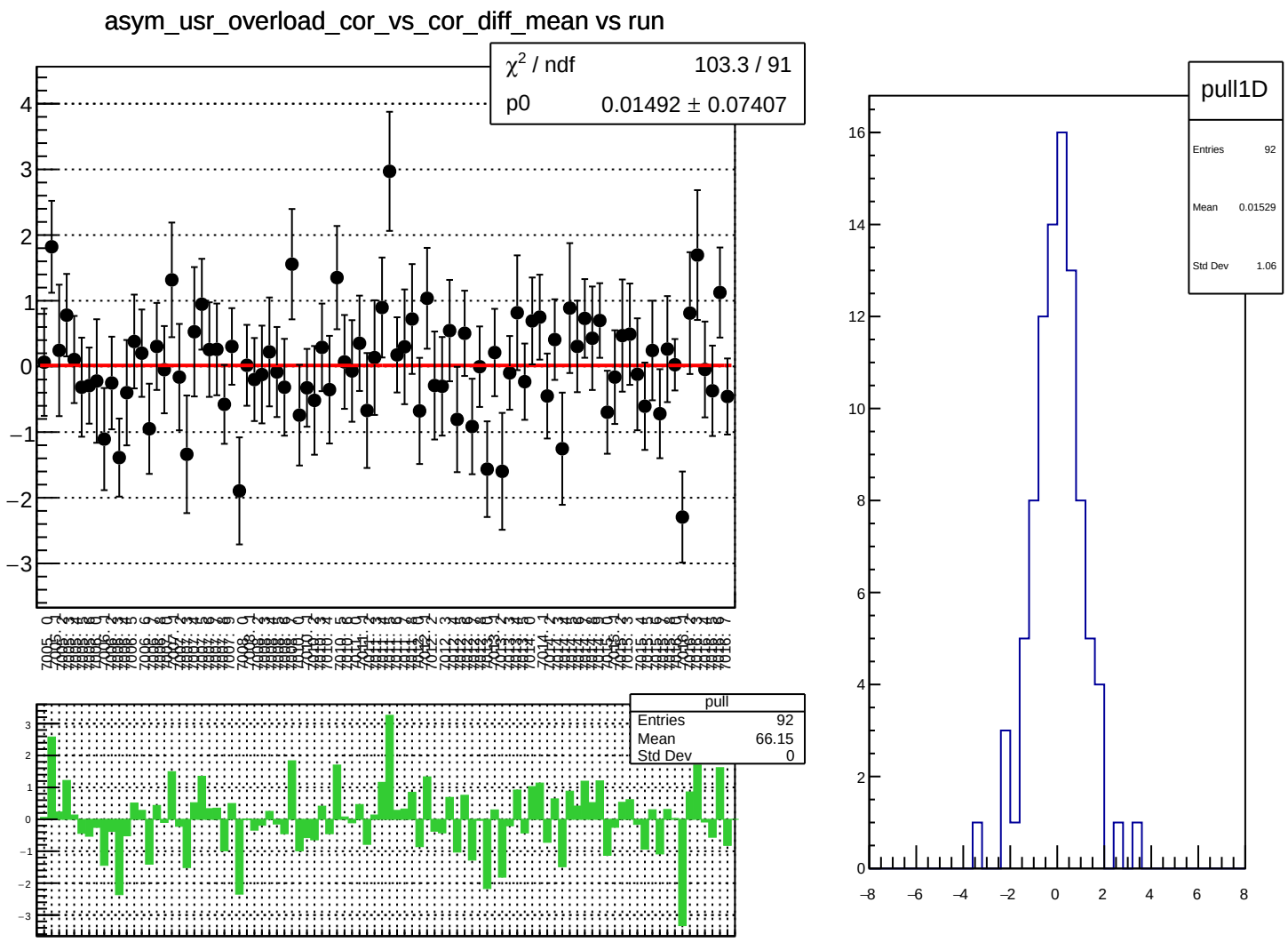

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 101.7 / 91
p0 0.02835 ± 0.1105
pull
Entries 92
Mean 133.6
Std Dev 17.43
pull1D
Entries 92
Mean −0.004023
Std Dev 1.052

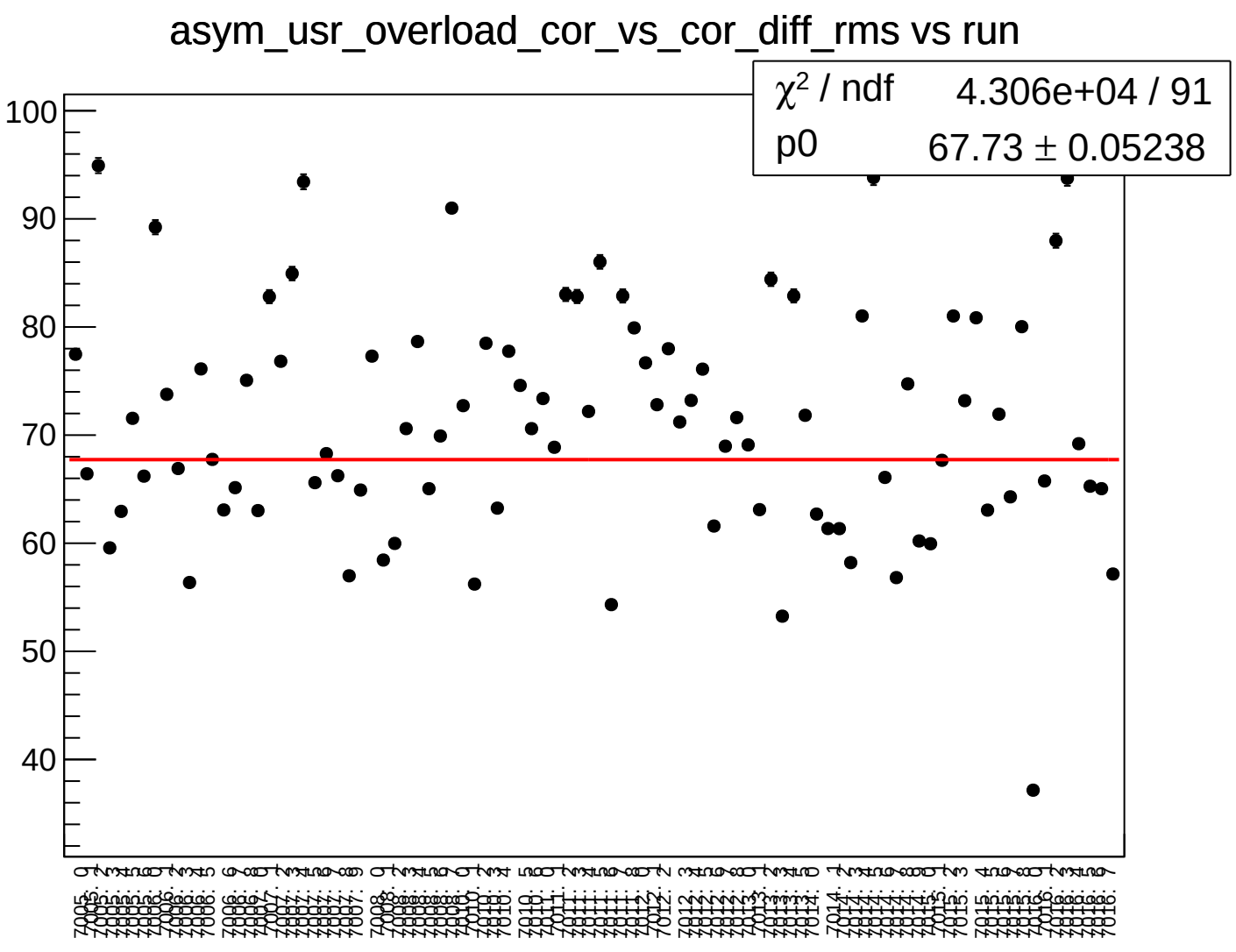

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.802e+04 / 91
p0 101.8 ± 0.07812
130
120
110
100
90
80

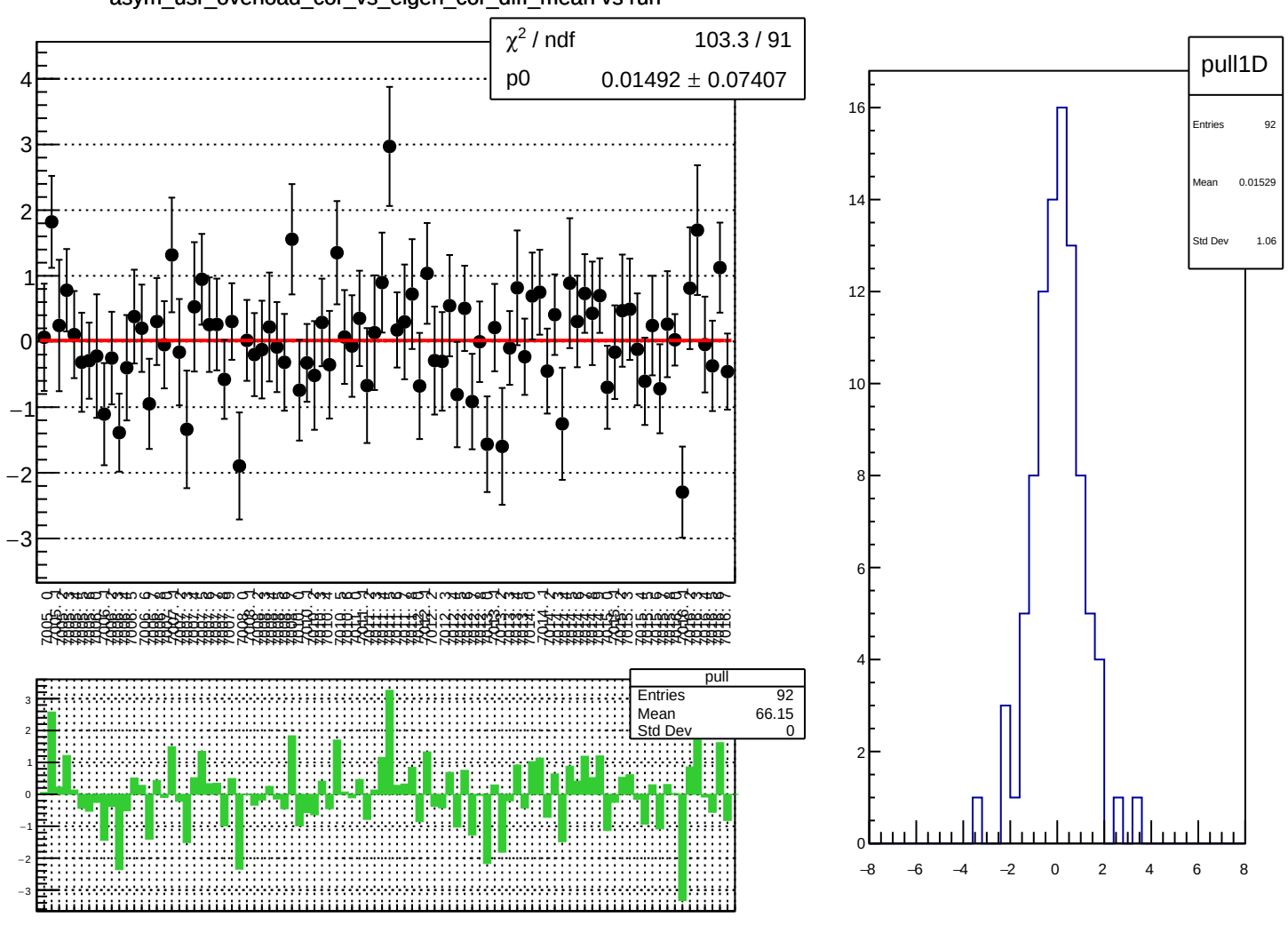

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.4 / 91
p0 5.769e−15 ± 2.617e−14
pull
Entries 92
Mean 247.6
Std Dev 0

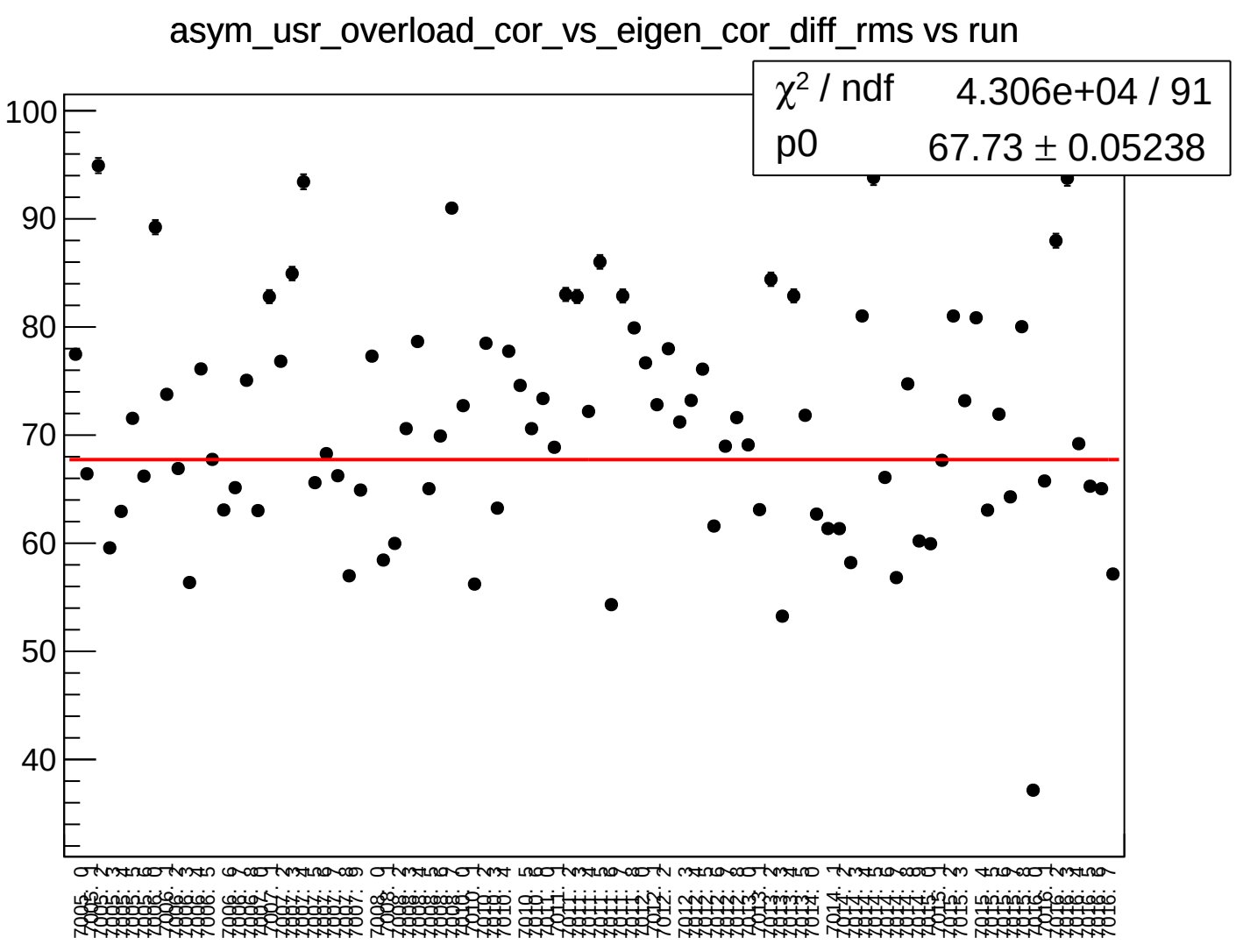

pull1D
Entries 92
Mean −0.01109
Std Dev 1.05

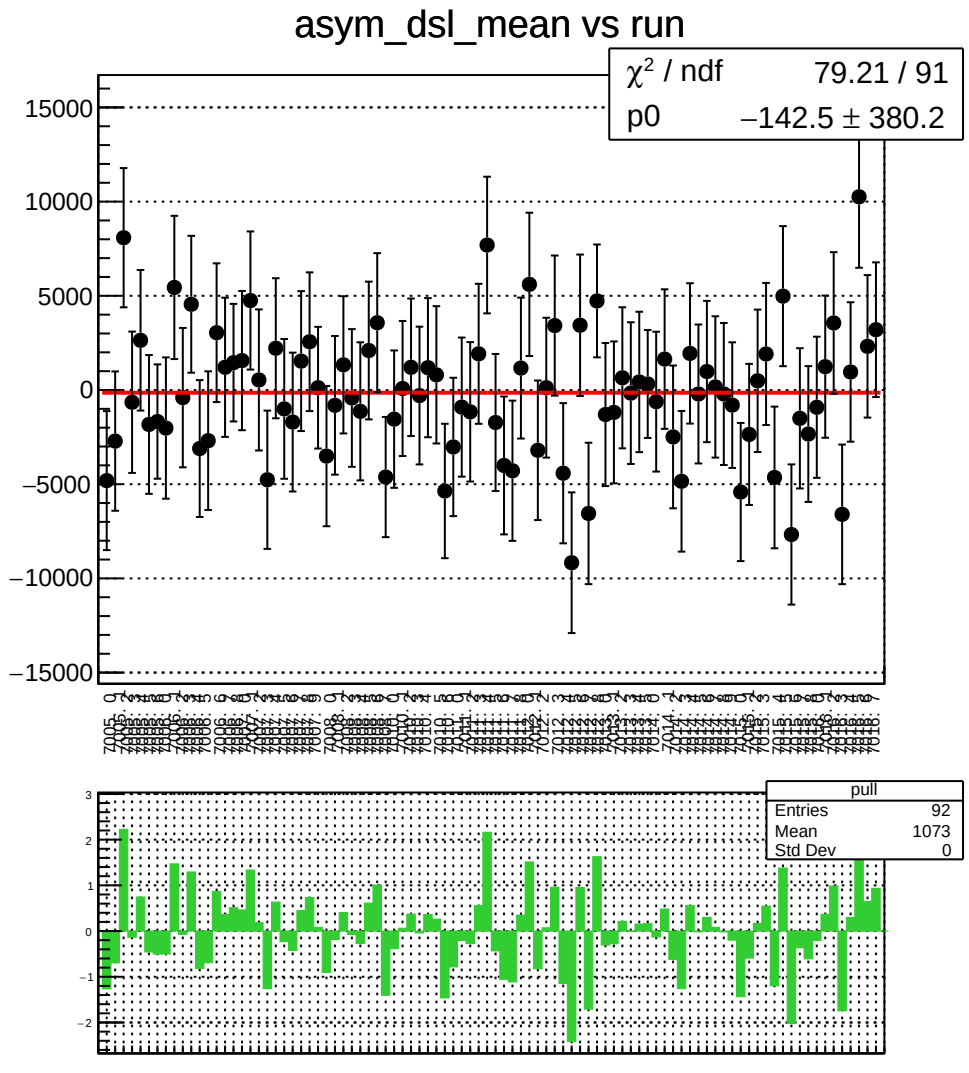

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.917e+05 / 91
p0 1.962e−11 ± 1.851e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

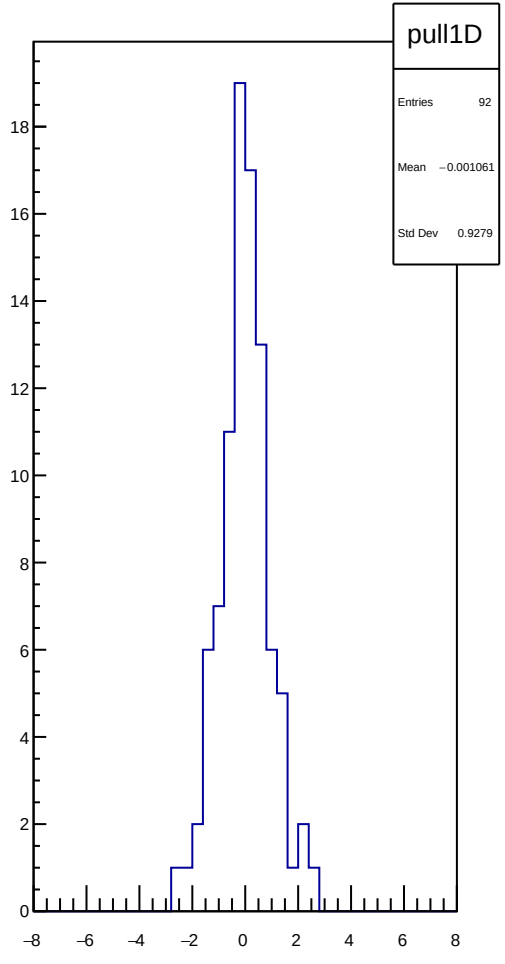

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 103.3 / 91
p0 0.01492 ± 0.07407
pull
Entries 92
Mean 66.15
Std Dev 0
pull1D
Entries 92
Mean 0.01529
Std Dev 1.06

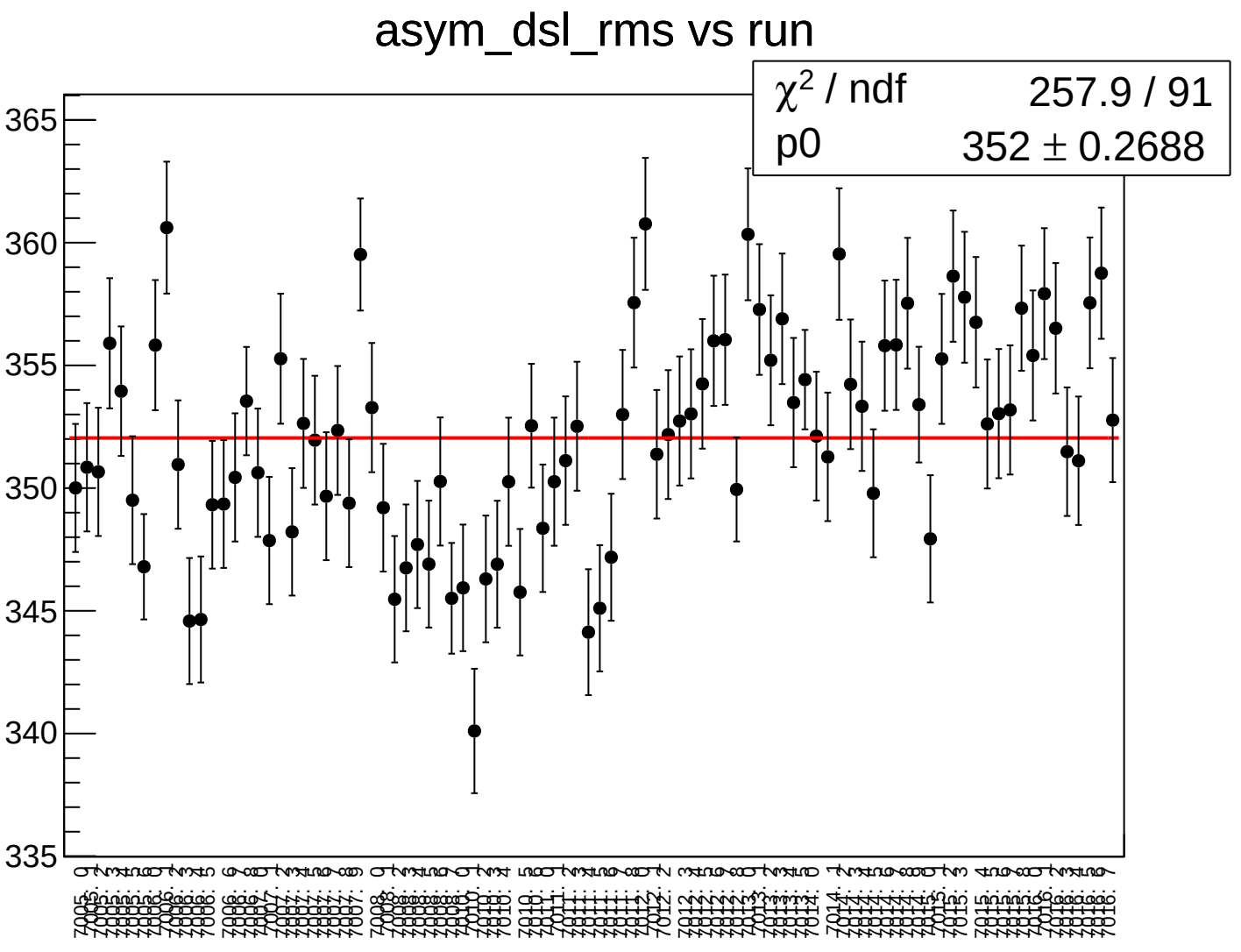

asym_usr_overload_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.306e+04 / 91
p0 67.73 ± 0.05238
100
90
80
70
60
50
40

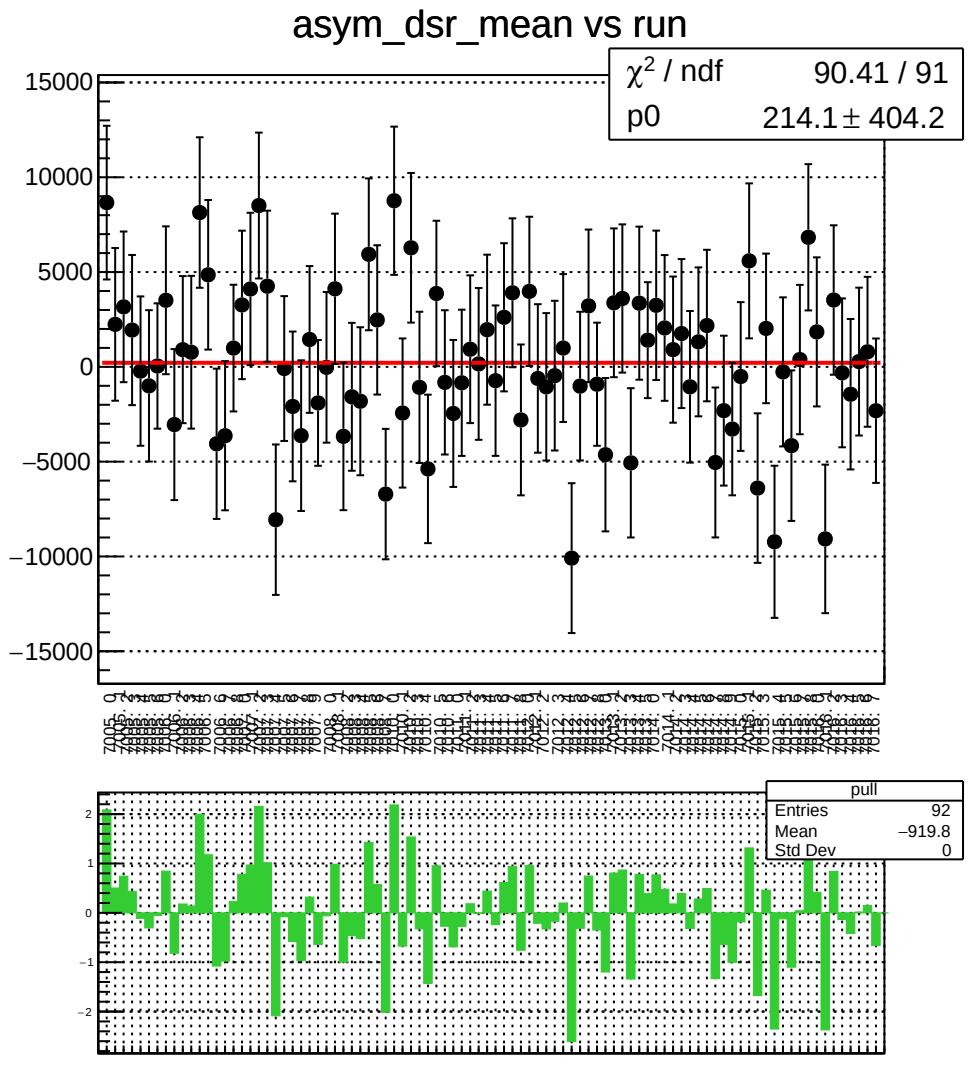

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.3 / 91
p0 0.01492 ± 0.07407
pull
Entries 92
Mean 66.15
Std Dev 0
pull1D
Entries 92
Mean 0.01529
Std Dev 1.06

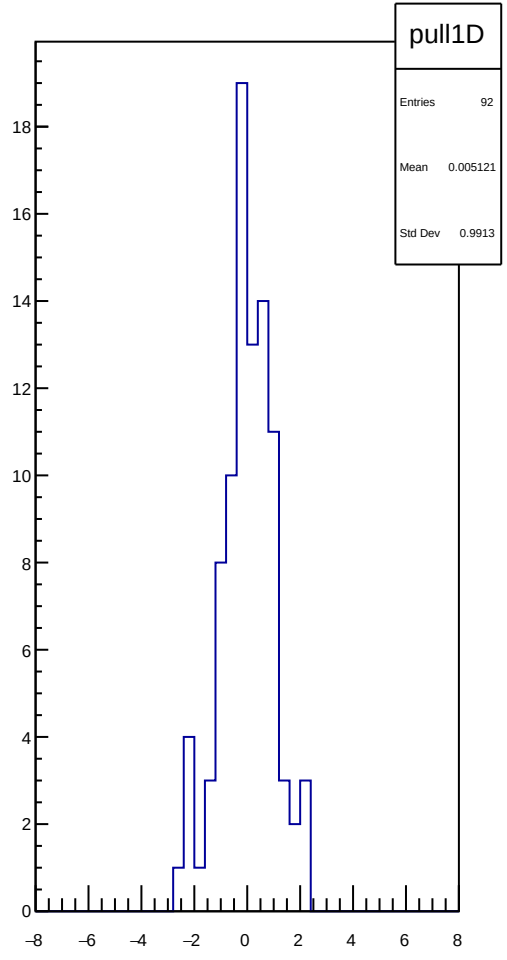

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.306e+04 / 91
p0 67.73 ± 0.05238
100
90
80
70
60
50
40

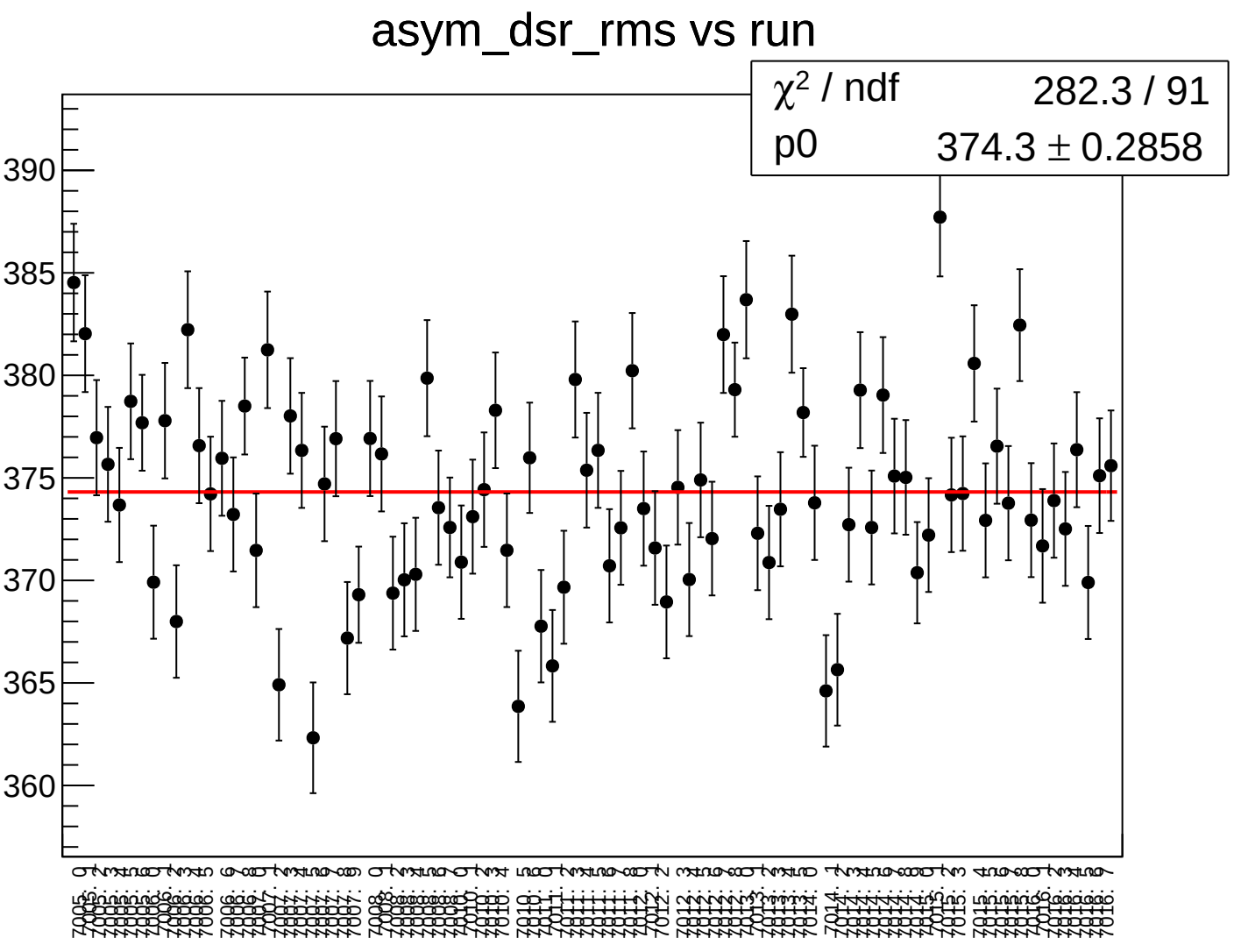

asym_dsl_mean vs run
χ² / ndf 79.21 / 91
p0 −142.5 ± 380.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1073
Std Dev 0
3
2
1
0
−1
−2

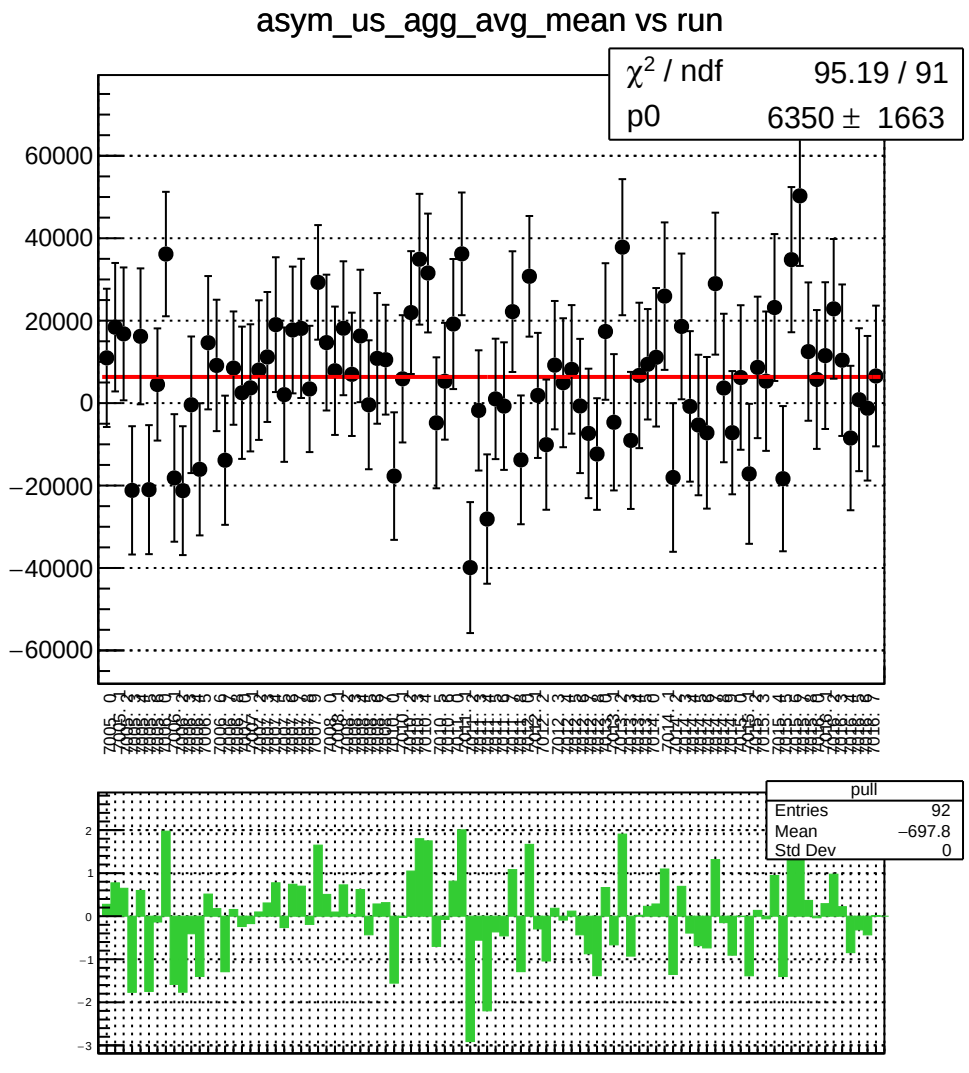

pull1D
Entries 92
Mean −0.001061
Std Dev 0.9279
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

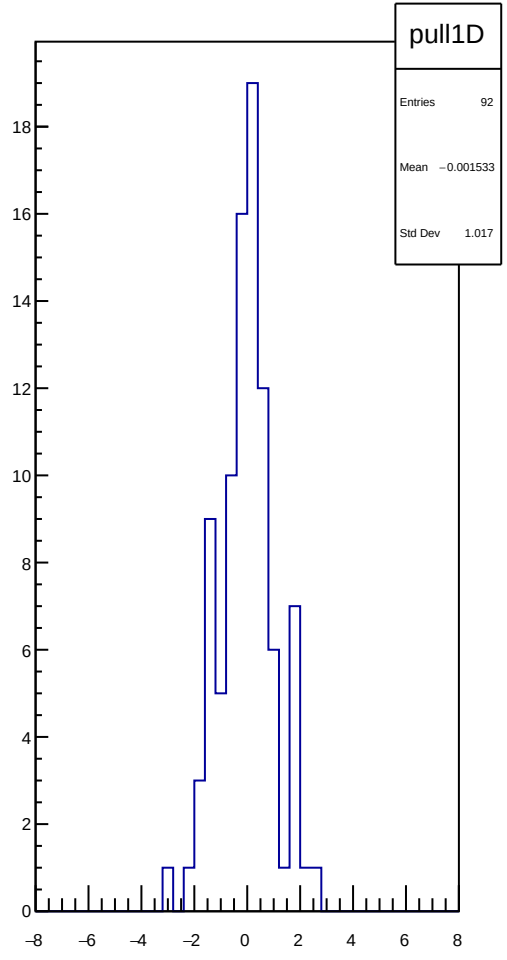

asym_dsl_rms vs run
$\chi^2$ / ndf 257.9 / 91
p0 352 ± 0.2688
365
360
355
350
345
340
335

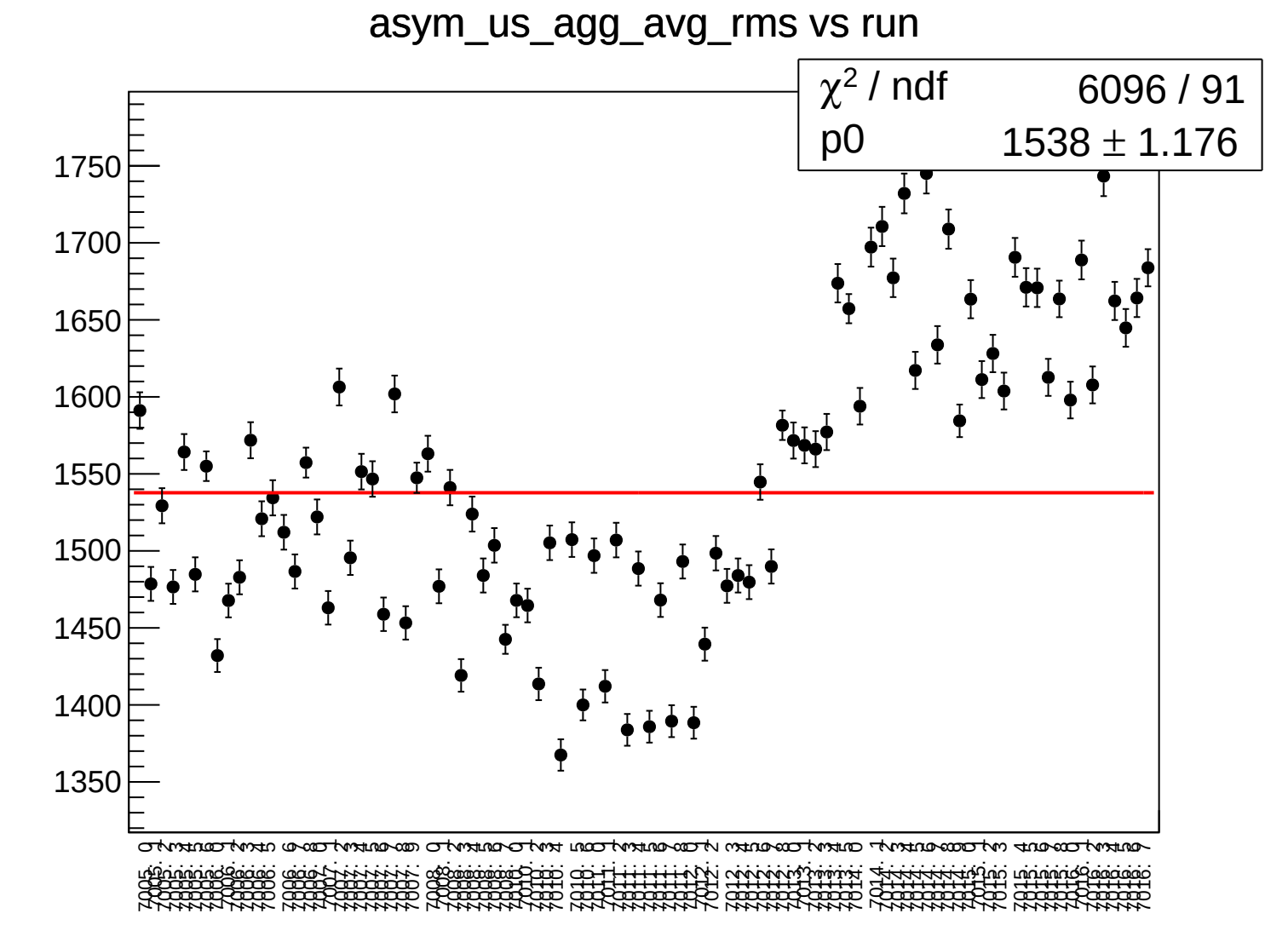

asym_dsr_mean vs run
$\chi^2$ / ndf 90.41 / 91
p0 214.1 ± 404.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −919.8
Std Dev 0
2
1
0
−1
−2

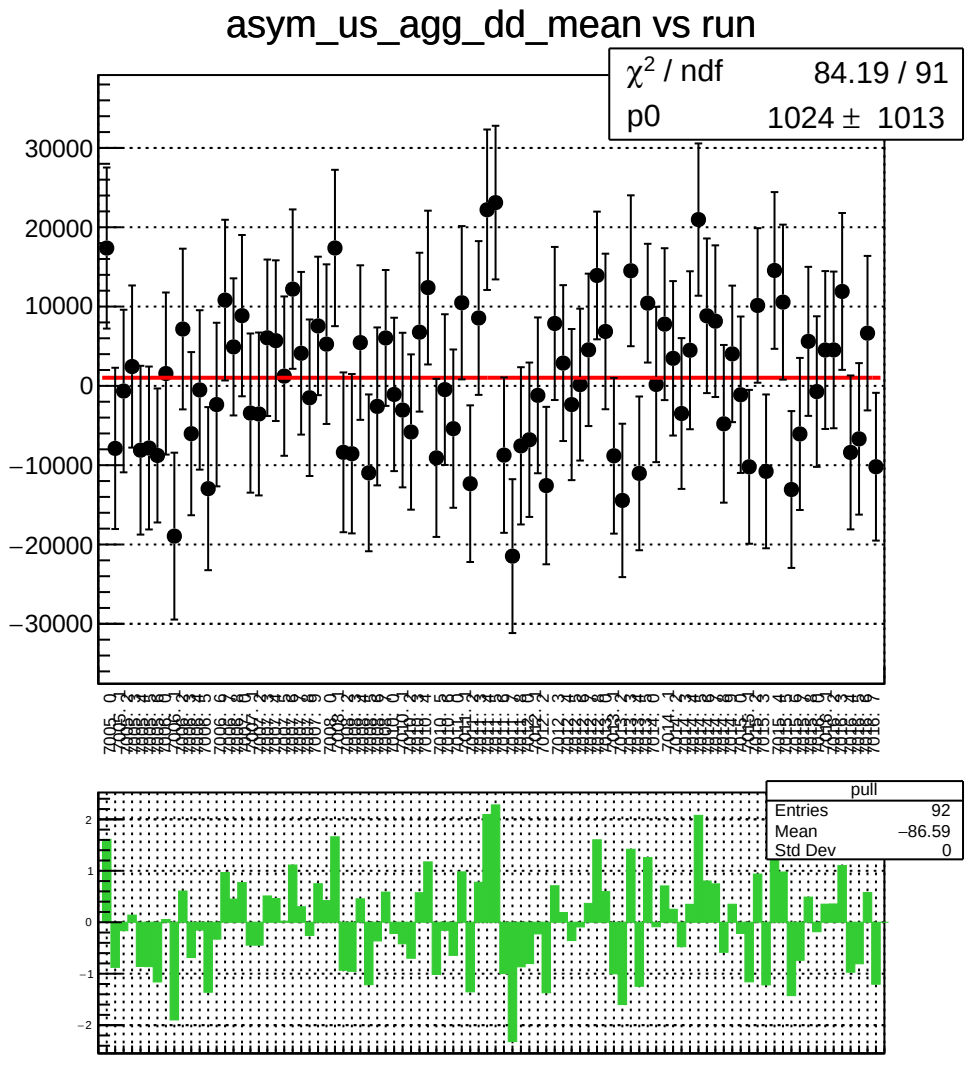

pull1D
Entries 92
Mean 0.005121
Std Dev 0.9913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

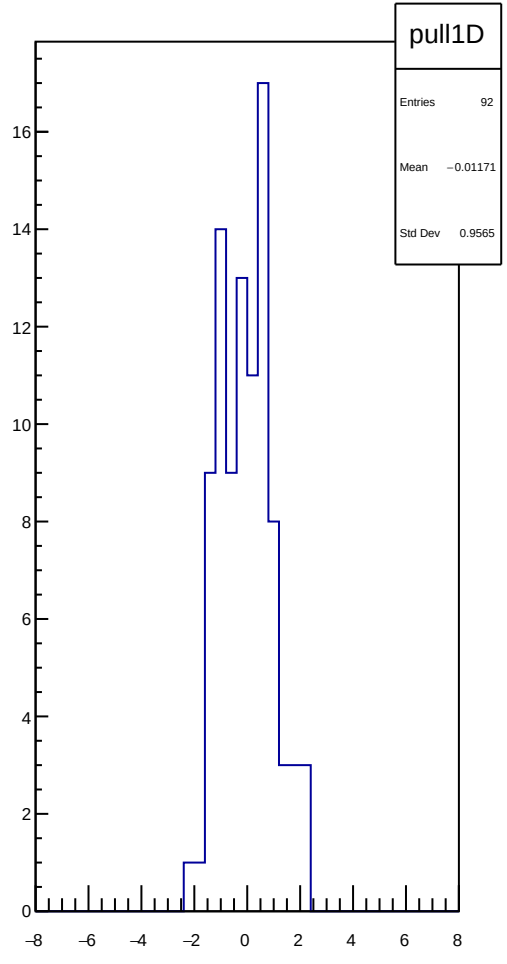

asym_dsr_rms vs run
χ² / ndf 282.3 / 91
p0 374.3 ± 0.2858
390
385
380
375
370
365
360

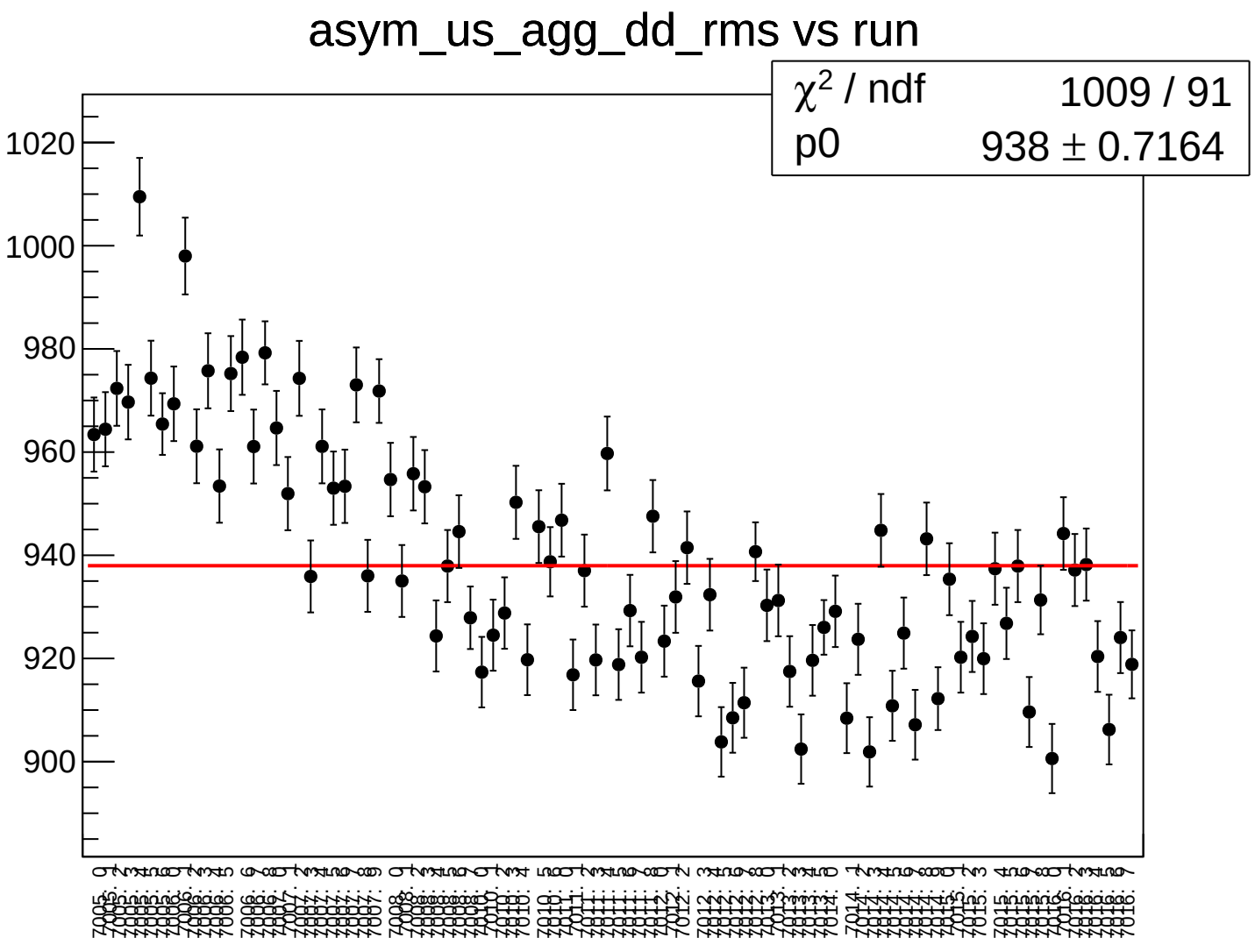

asym_us_agg_avg_mean vs run
$\chi^2$ / ndf 95.19 / 91
p0 6350 ± 1663
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −697.8
Std Dev 0
2
1
0
−1
−2
−3

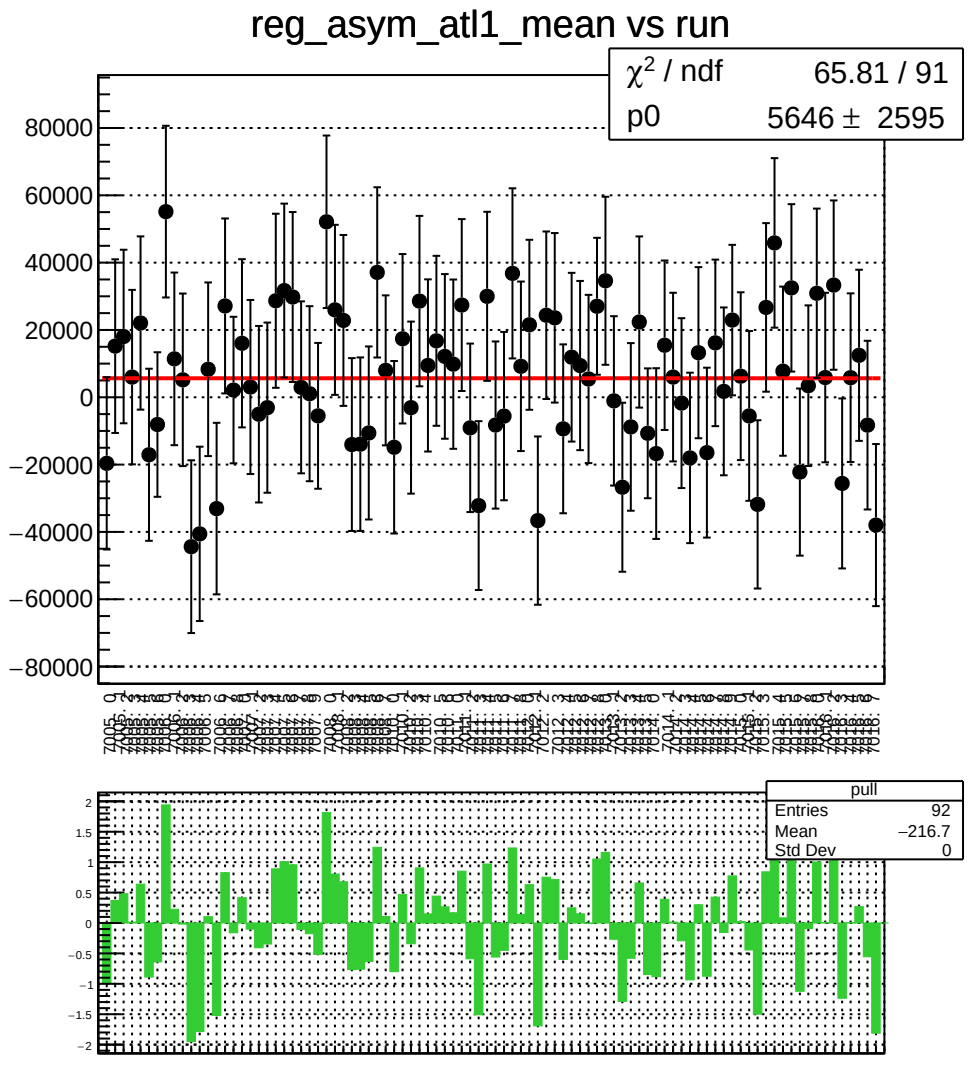

pull1D
Entries 92
Mean −0.001533
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

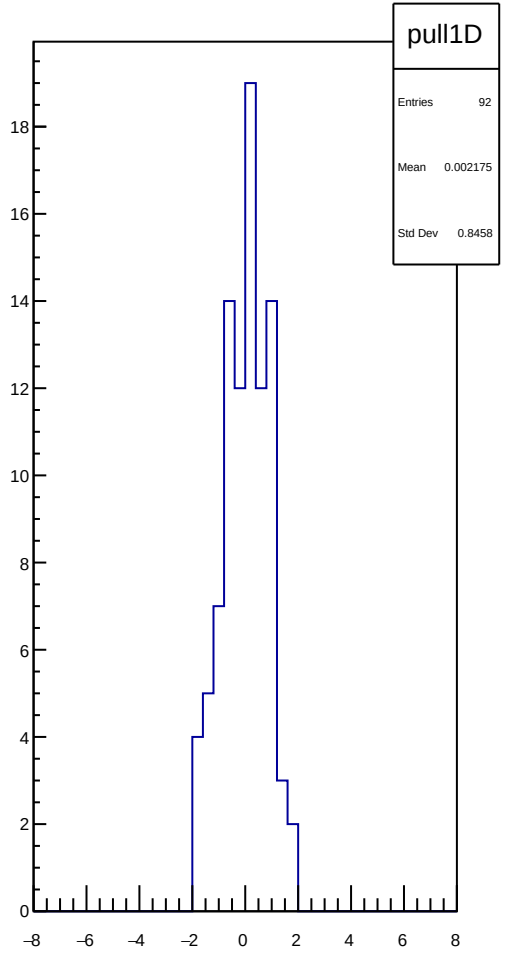

asym_us_agg_avg_rms vs run
χ² / ndf 6096 / 91
p0 1538 ± 1.176
1750
1700
1650
1600
1550
1500
1450
1400
1350

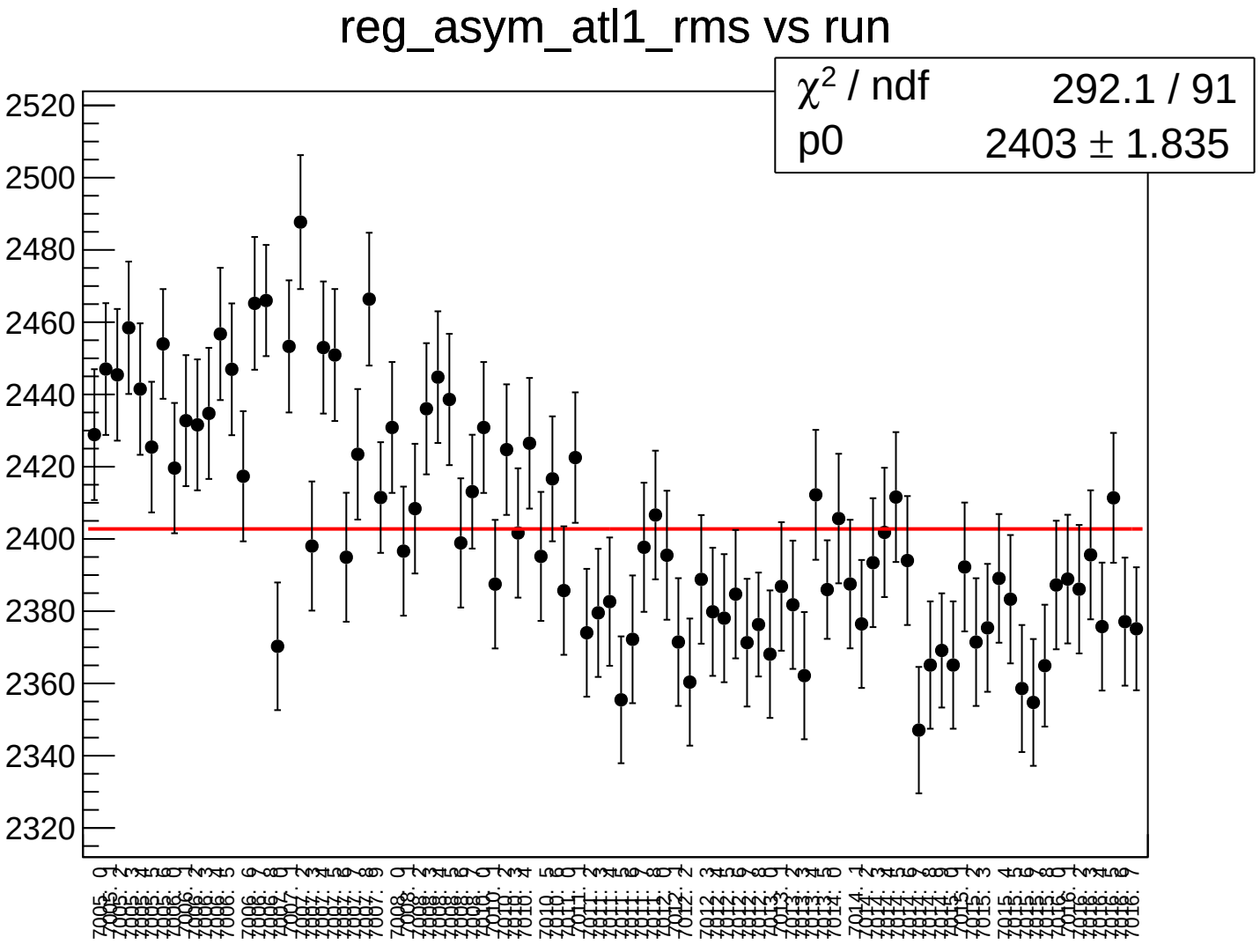

asym_us_agg_dd_mean vs run
χ² / ndf 84.19 / 91
p0 1024 ± 1013
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −86.59
Std Dev 0
2
1
0
−1
−2

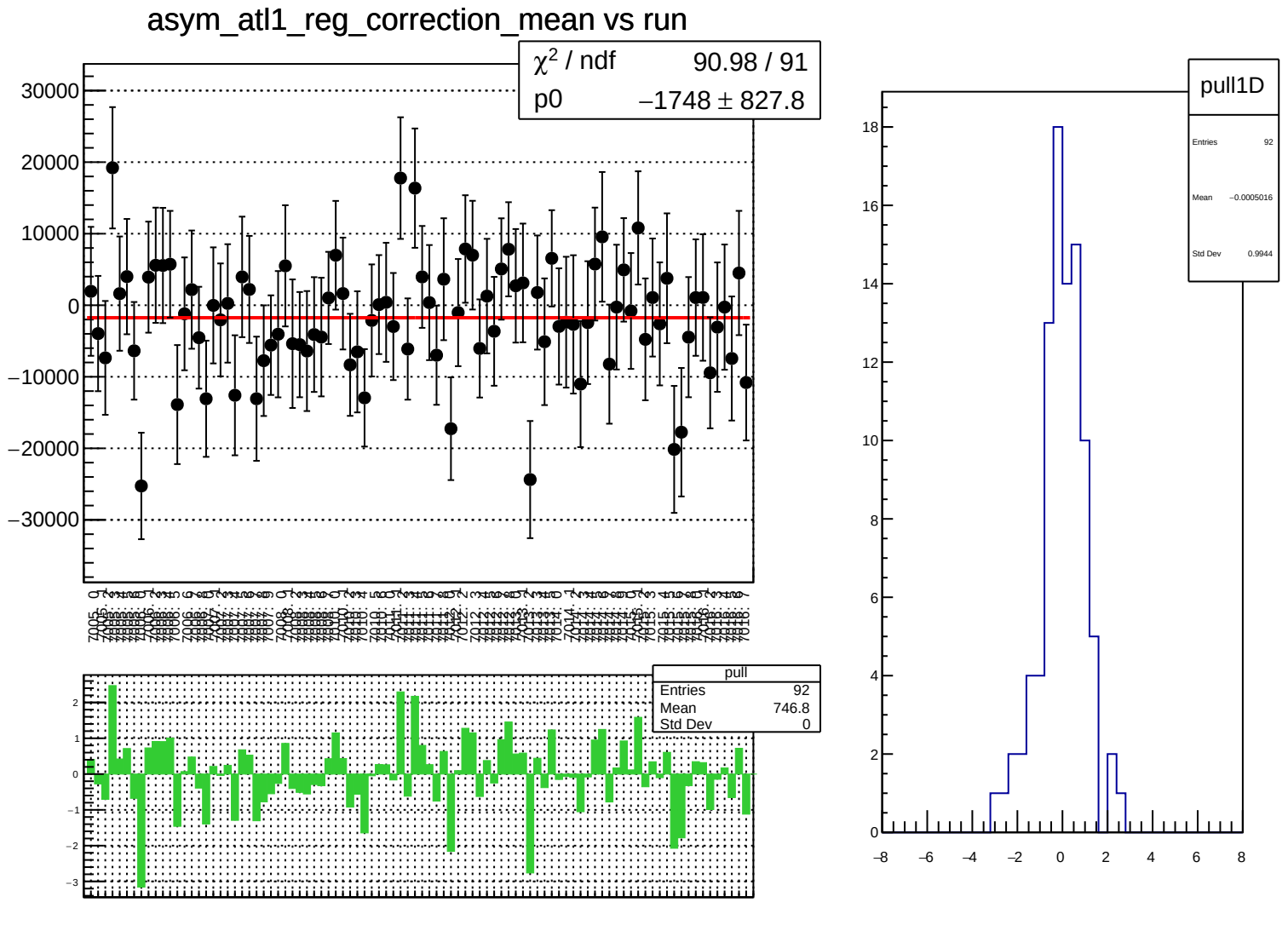

pull1D
Entries 92
Mean −0.01171
Std Dev 0.9565
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

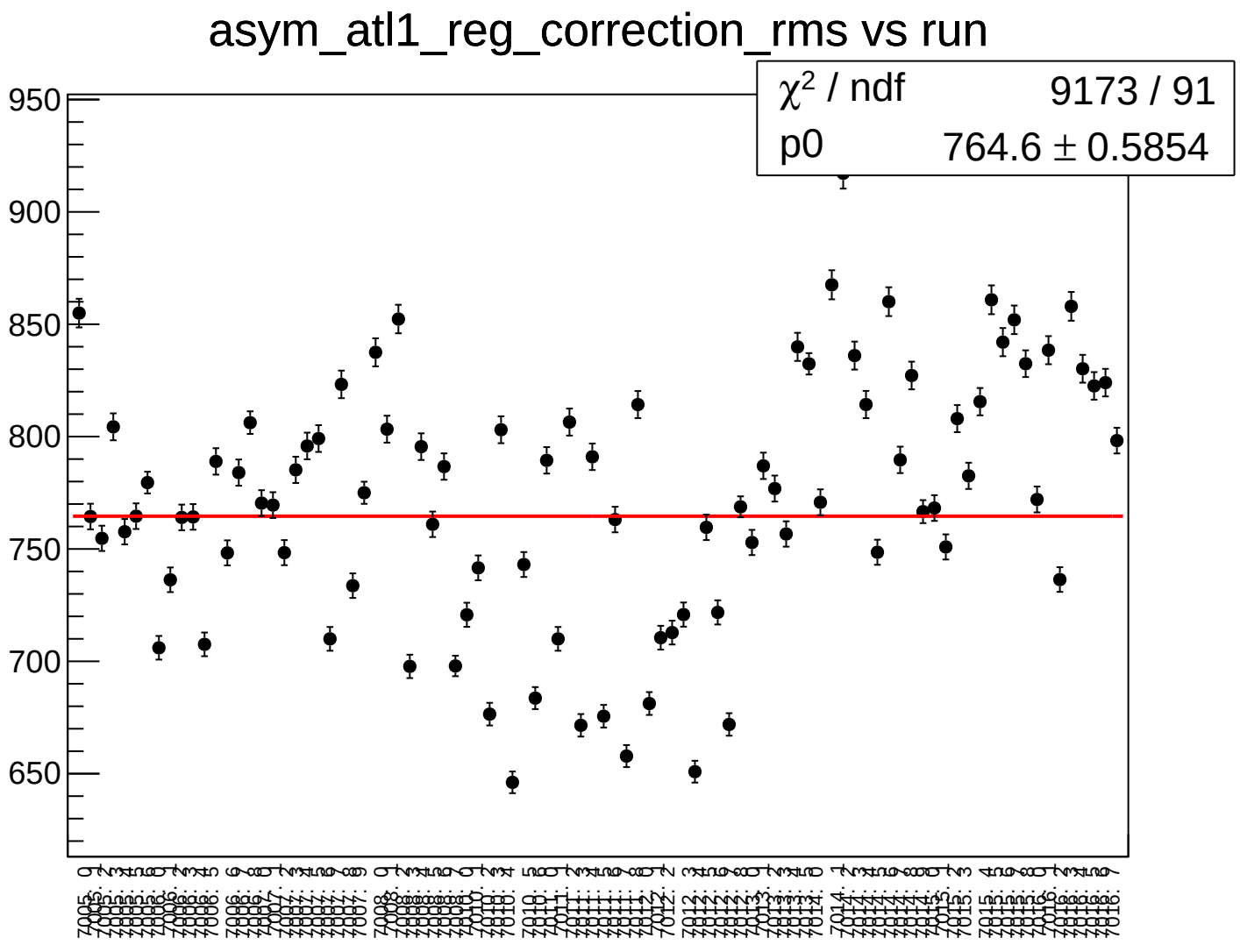

asym_us_agg_dd_rms vs run
$\chi^2$ / ndf 1009 / 91
p0 938 ± 0.7164
1020
1000
980
960
940
920
900

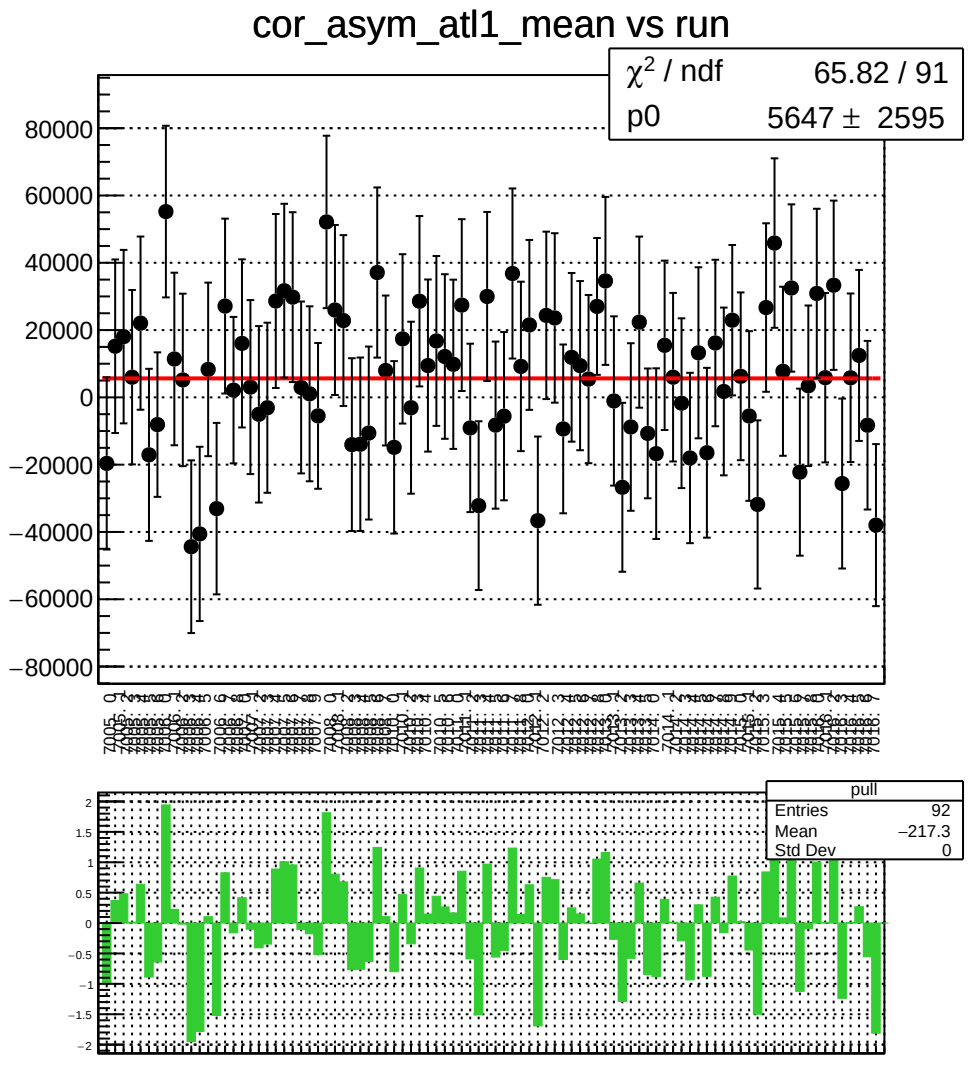

reg_asym_atl1_mean vs run
χ² / ndf 65.81 / 91
p0 5646 ± 2595
pull
Entries 92
Mean −216.7
Std Dev 0

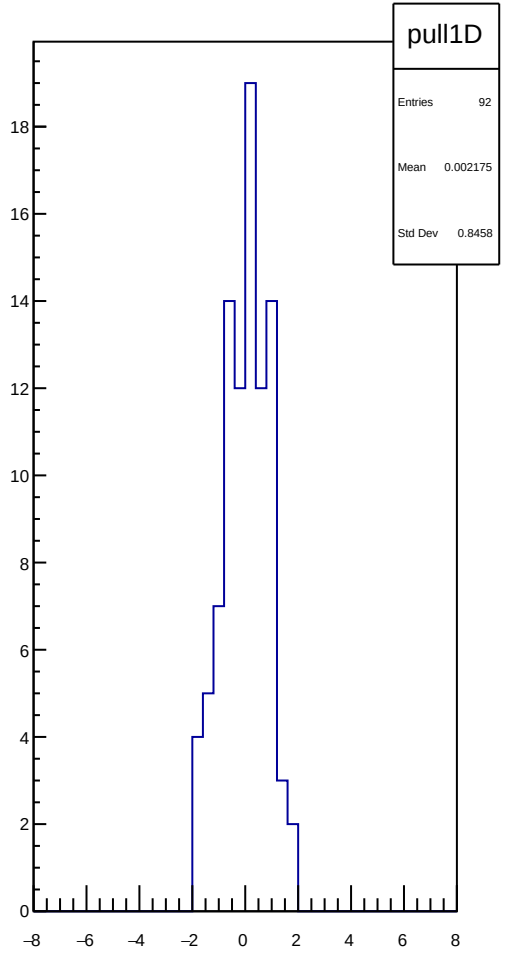

pull1D
Entries 92
Mean 0.002175
Std Dev 0.8458


reg_asym_atl1_rms vs run
$\chi^2$ / ndf 292.1 / 91
p0 2403 ± 1.835
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

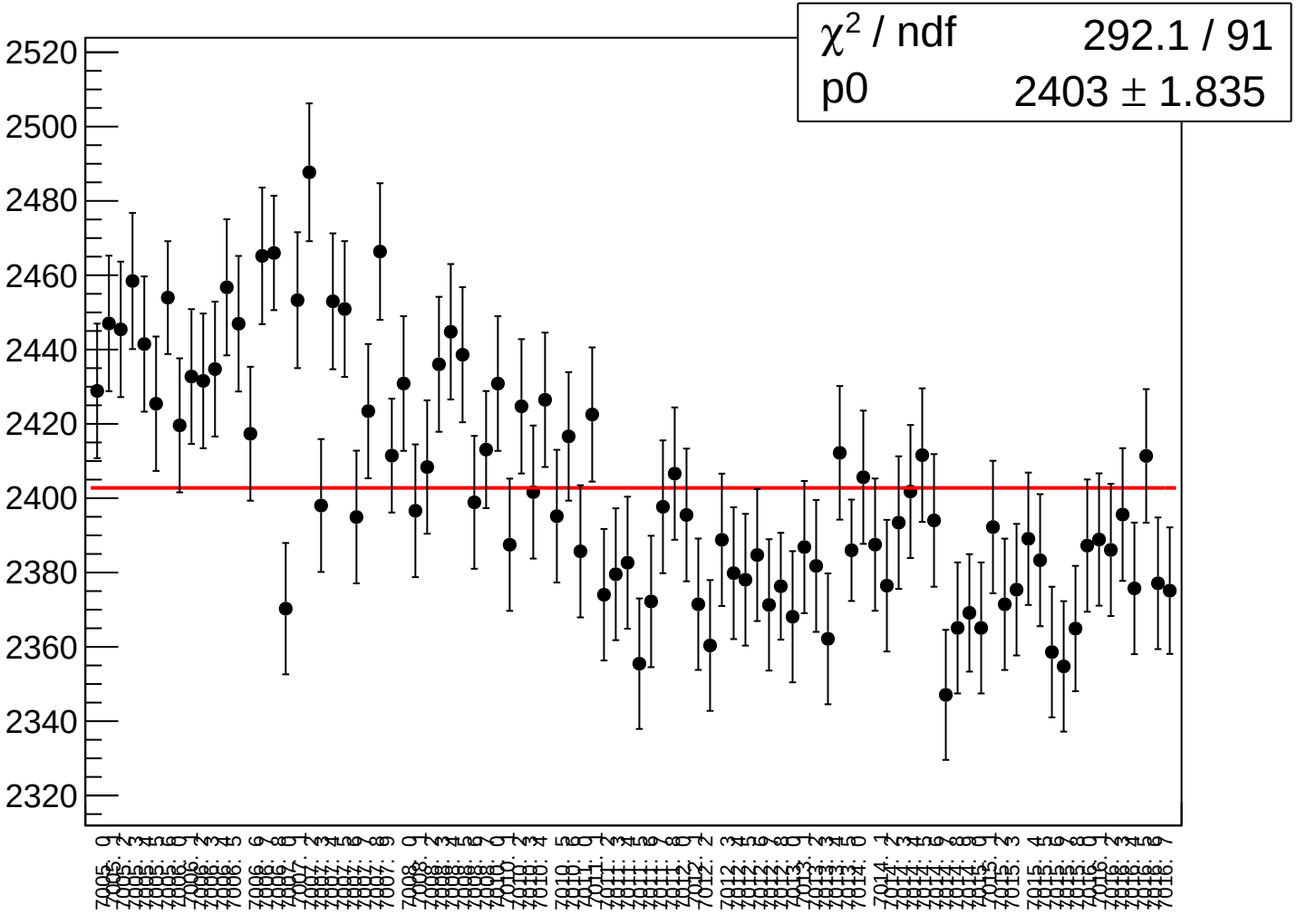

asym_atl1_reg_correction_mean vs run
χ² / ndf 90.98 / 91
p0 −1748 ± 827.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 746.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0005016
Std Dev 0.9944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

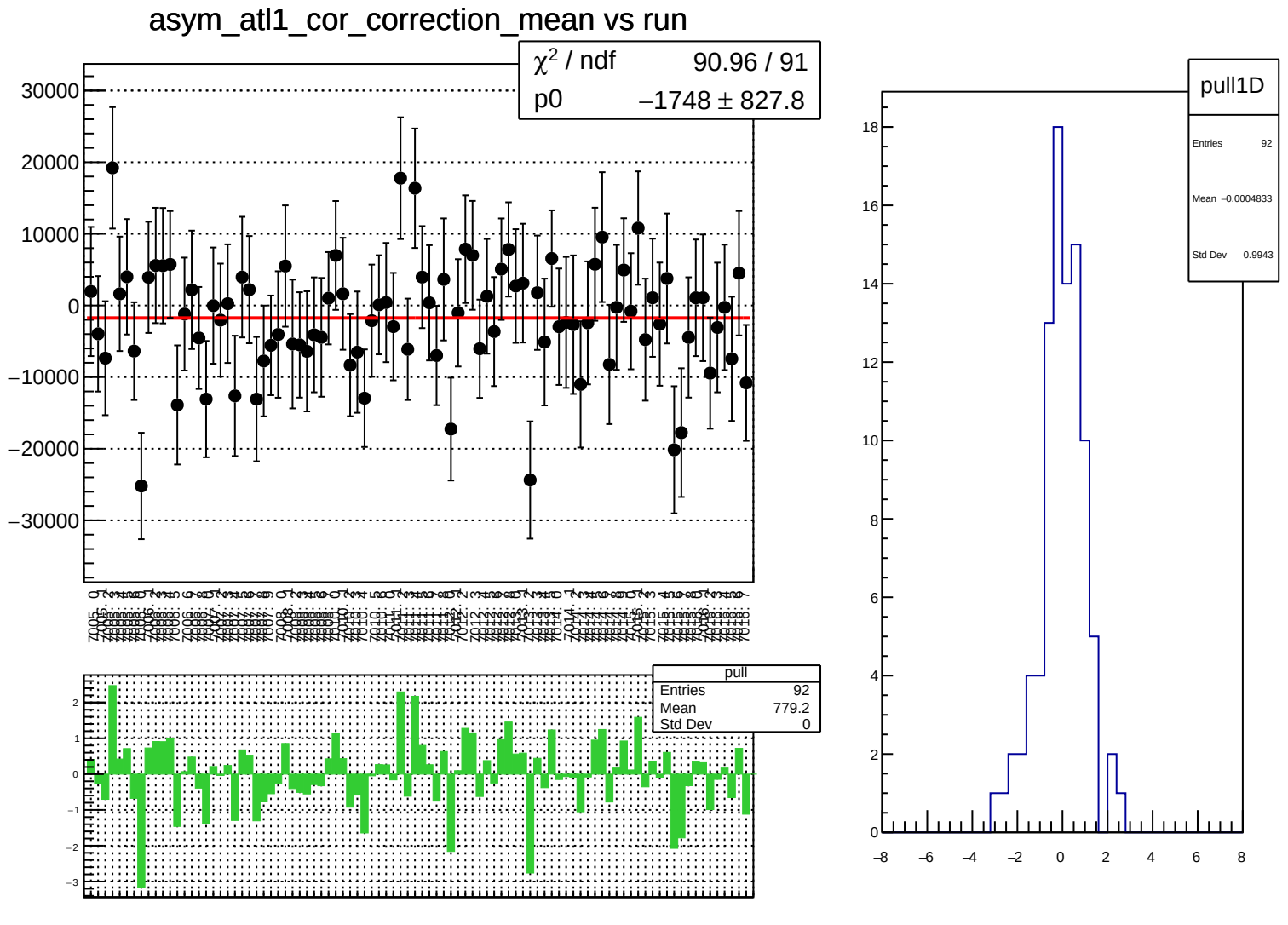

asym_atl1_reg_correction_rms vs run
χ² / ndf 9173 / 91
p0 764.6 ± 0.5854
950
900
850
800
750
700
650

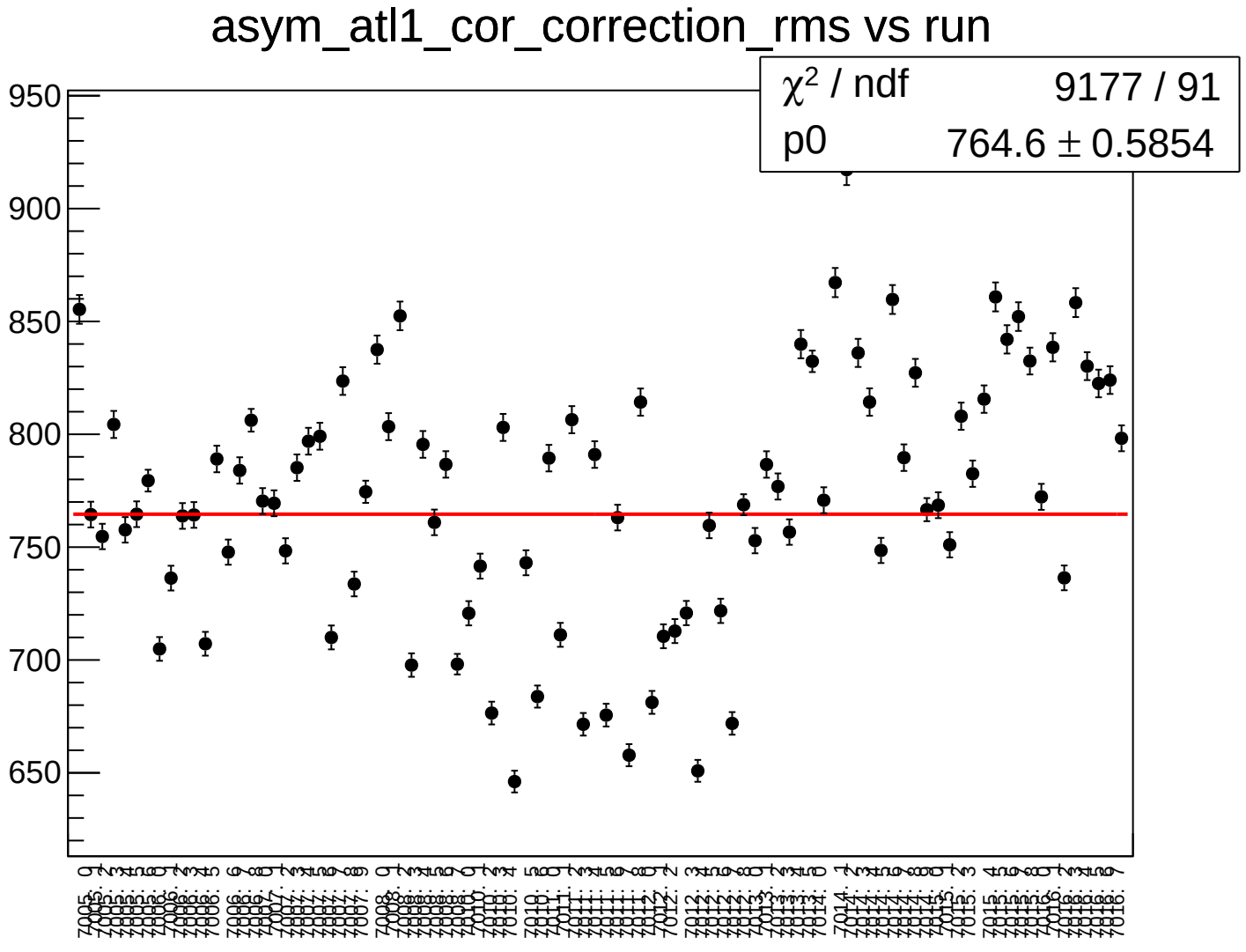

cor_asym_atl1_mean vs run
χ² / ndf 65.82 / 91
p0 5647 ± 2595
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −217.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

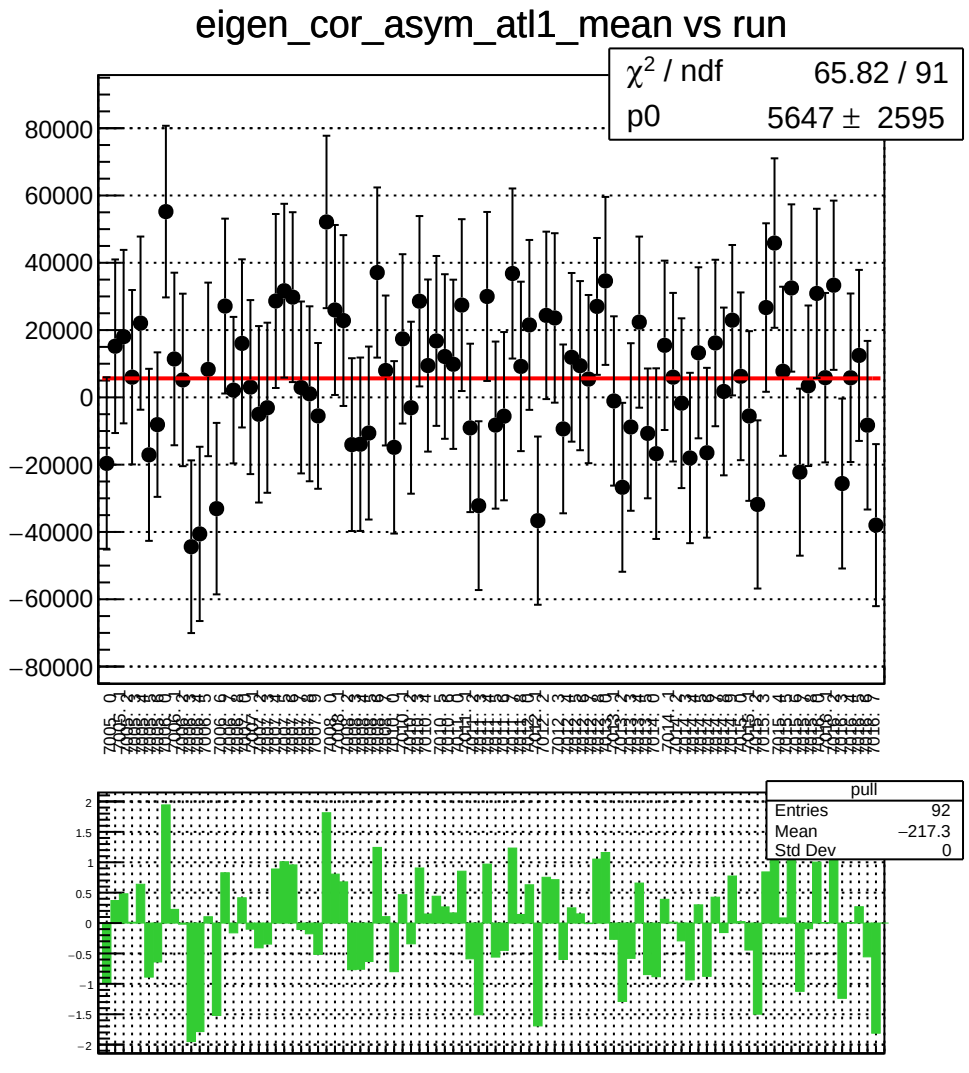

pull1D
Entries 92
Mean 0.002175
Std Dev 0.8458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

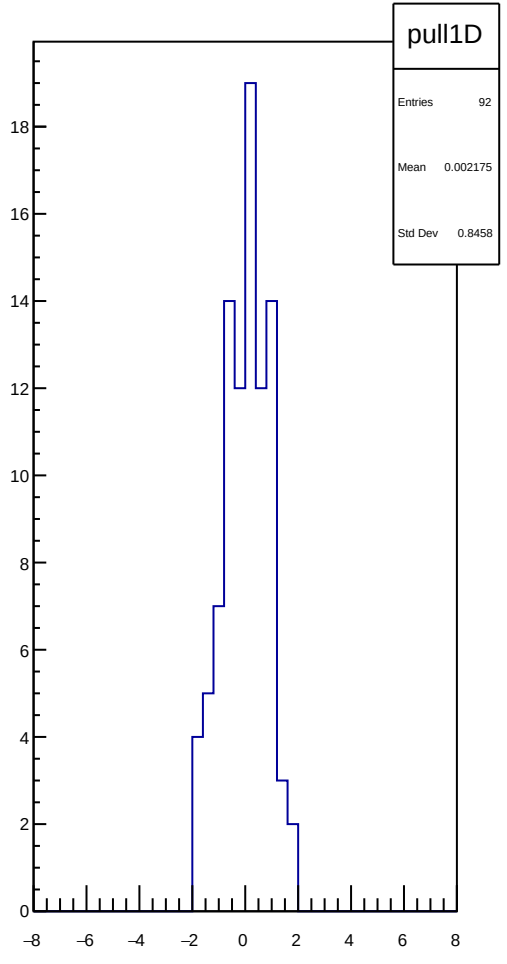
# cor_asym_atl1_rms vs run



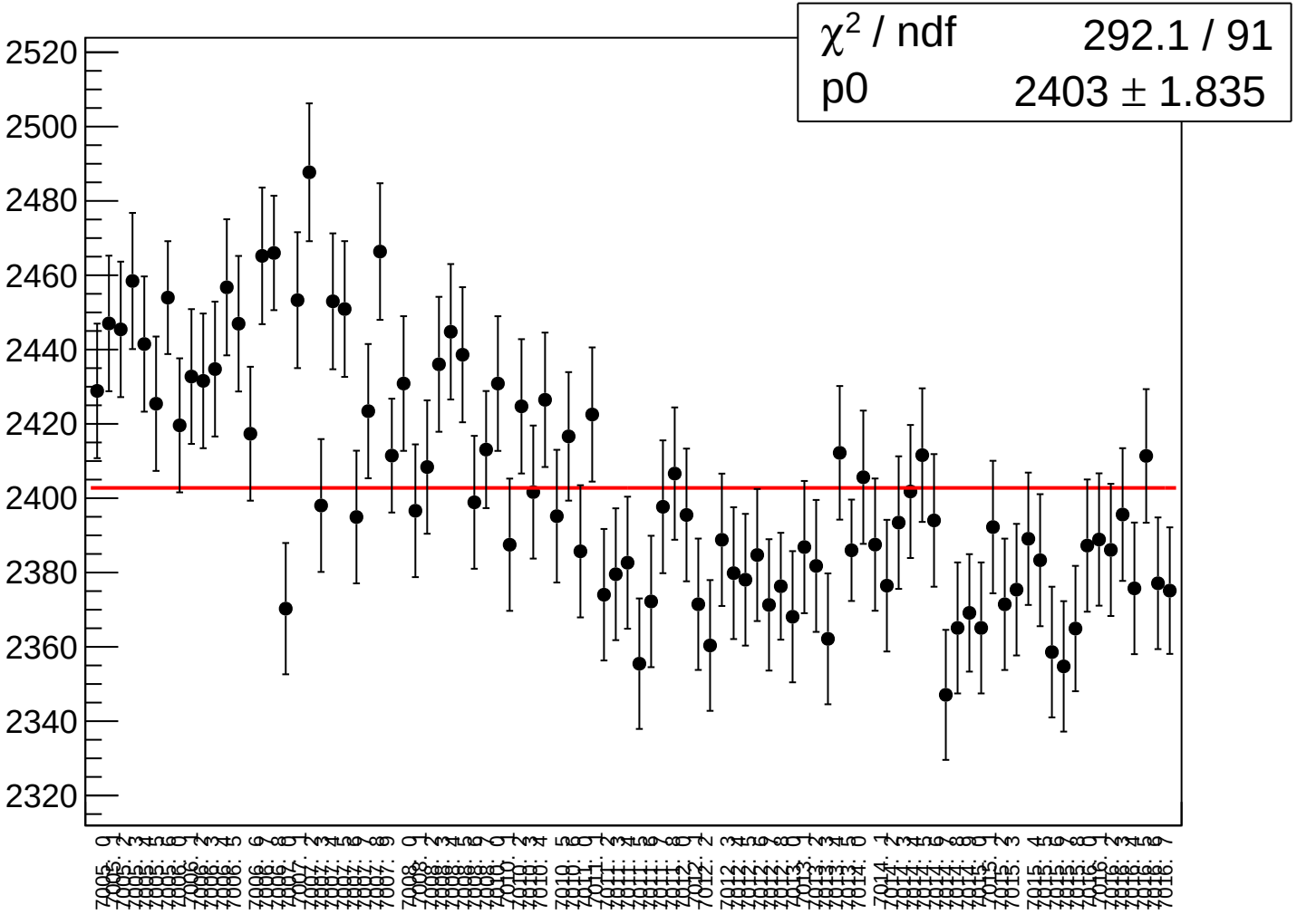

asym_atl1_cor_correction_mean vs run
χ² / ndf 90.96 / 91
p0 −1748 ± 827.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 779.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.0004833
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

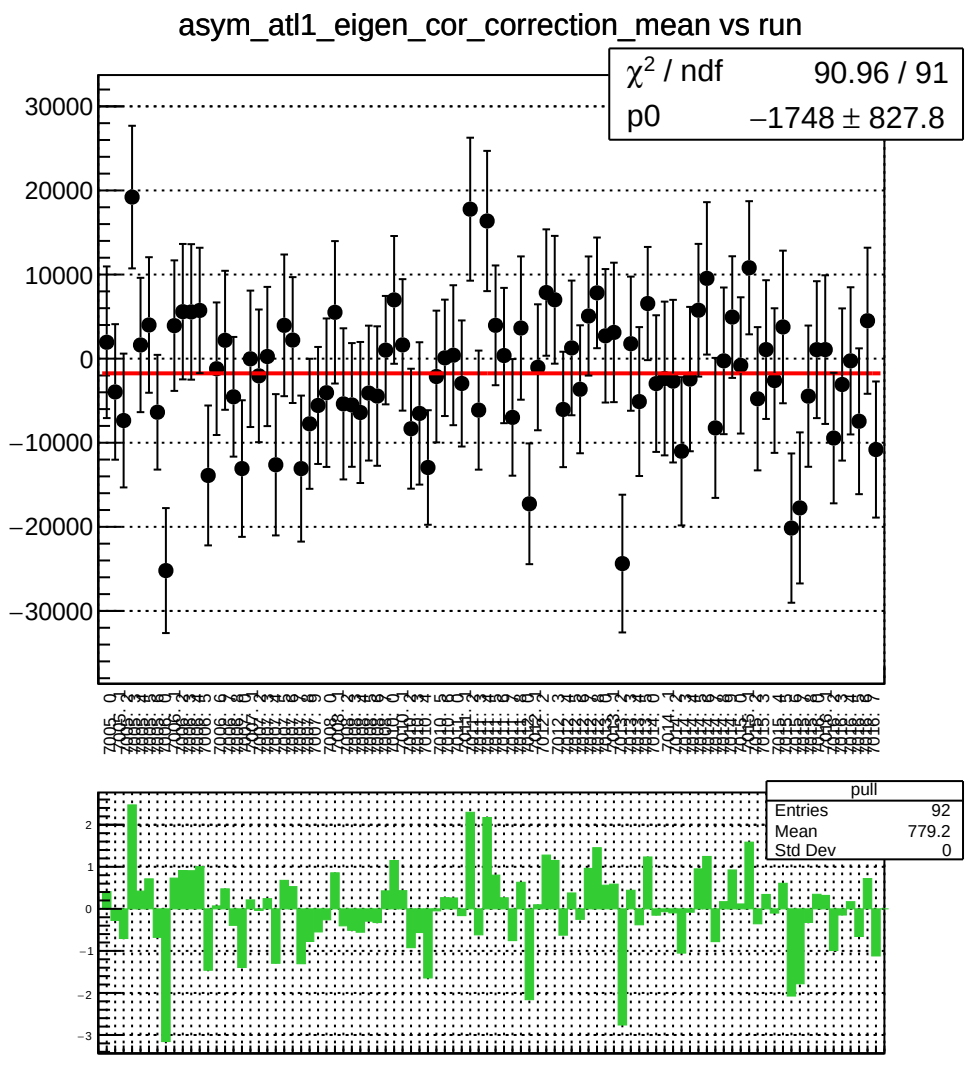

asym_atl1_cor_correction_rms vs run
χ² / ndf 9177 / 91
p0 764.6 ± 0.5854
950
900
850
800
750
700
650

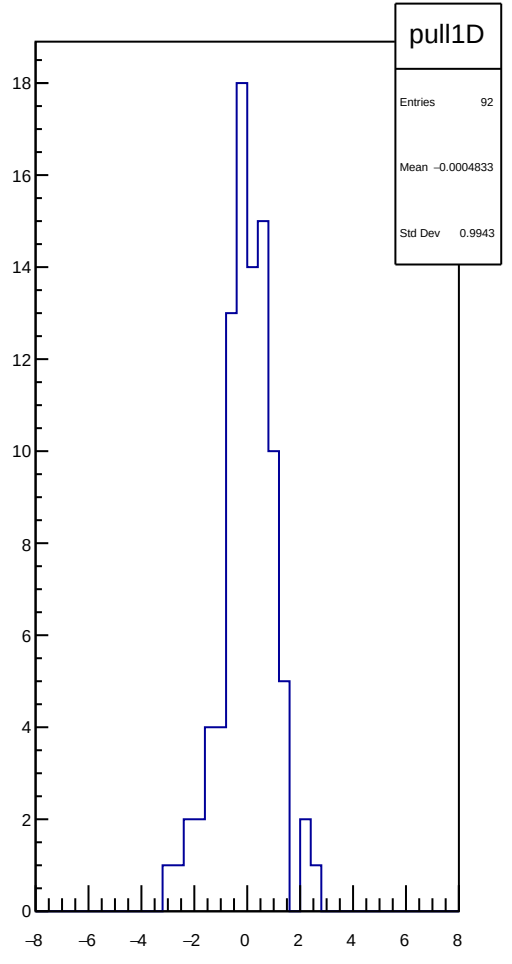

eigen_cor_asym_atl1_mean vs run
χ² / ndf 65.82 / 91
p0 5647 ± 2595
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −217.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

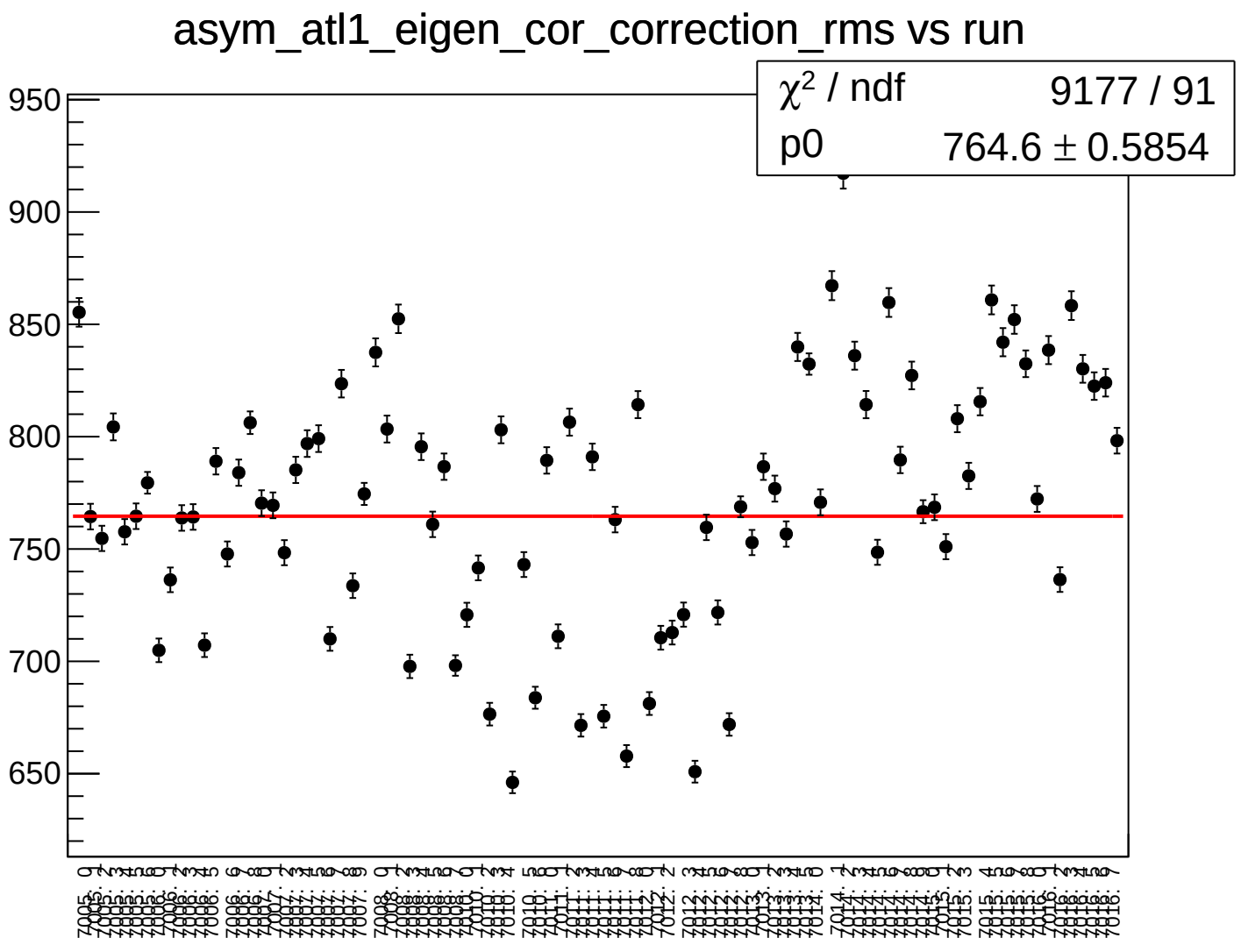

pull1D
Entries 92
Mean 0.002175
Std Dev 0.8458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

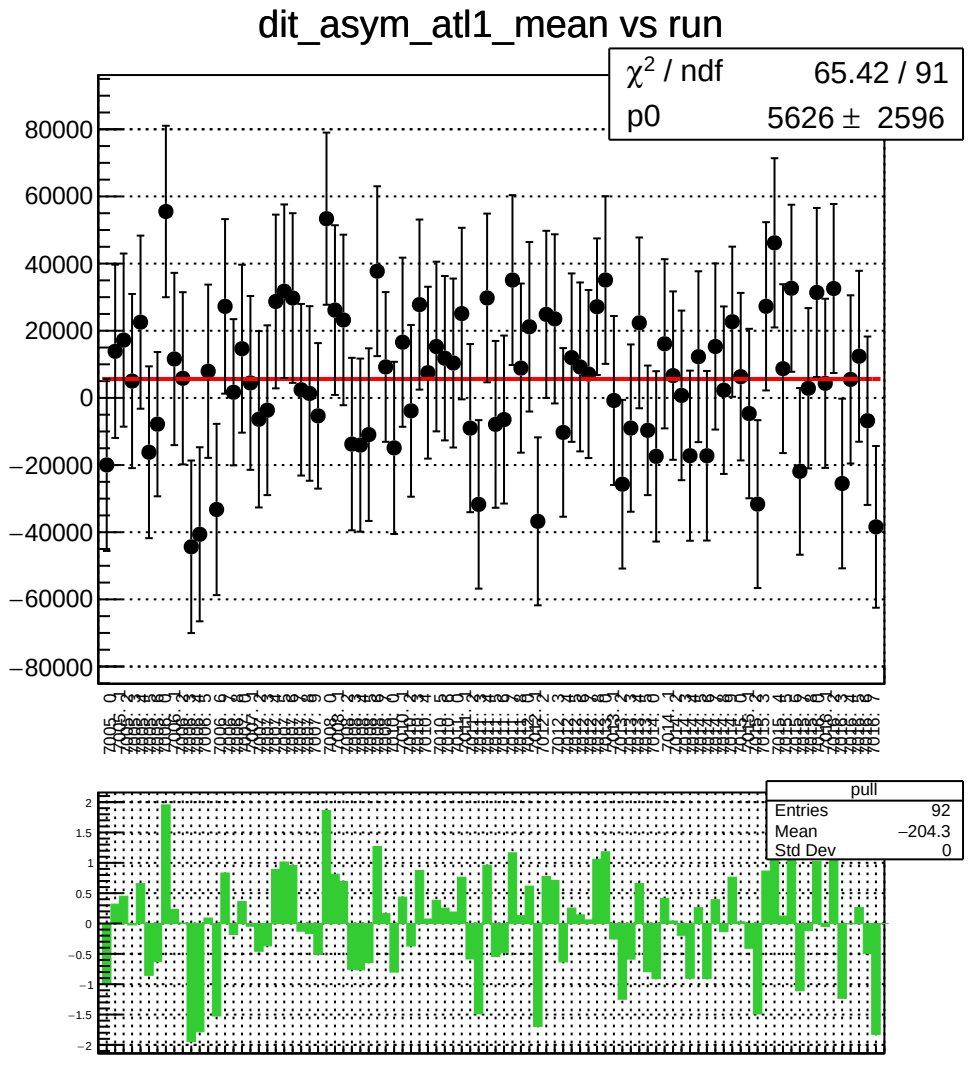
# eigen_cor_asym_atl1_rms vs run

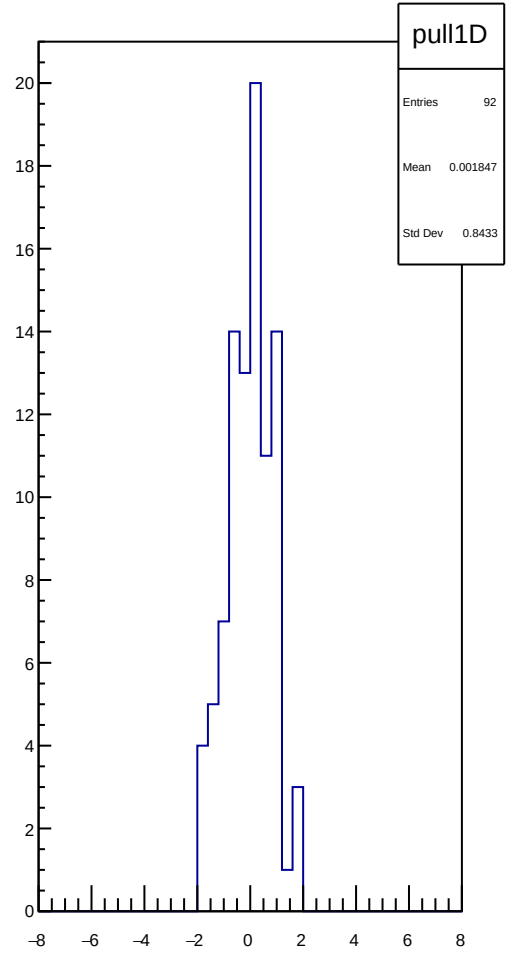


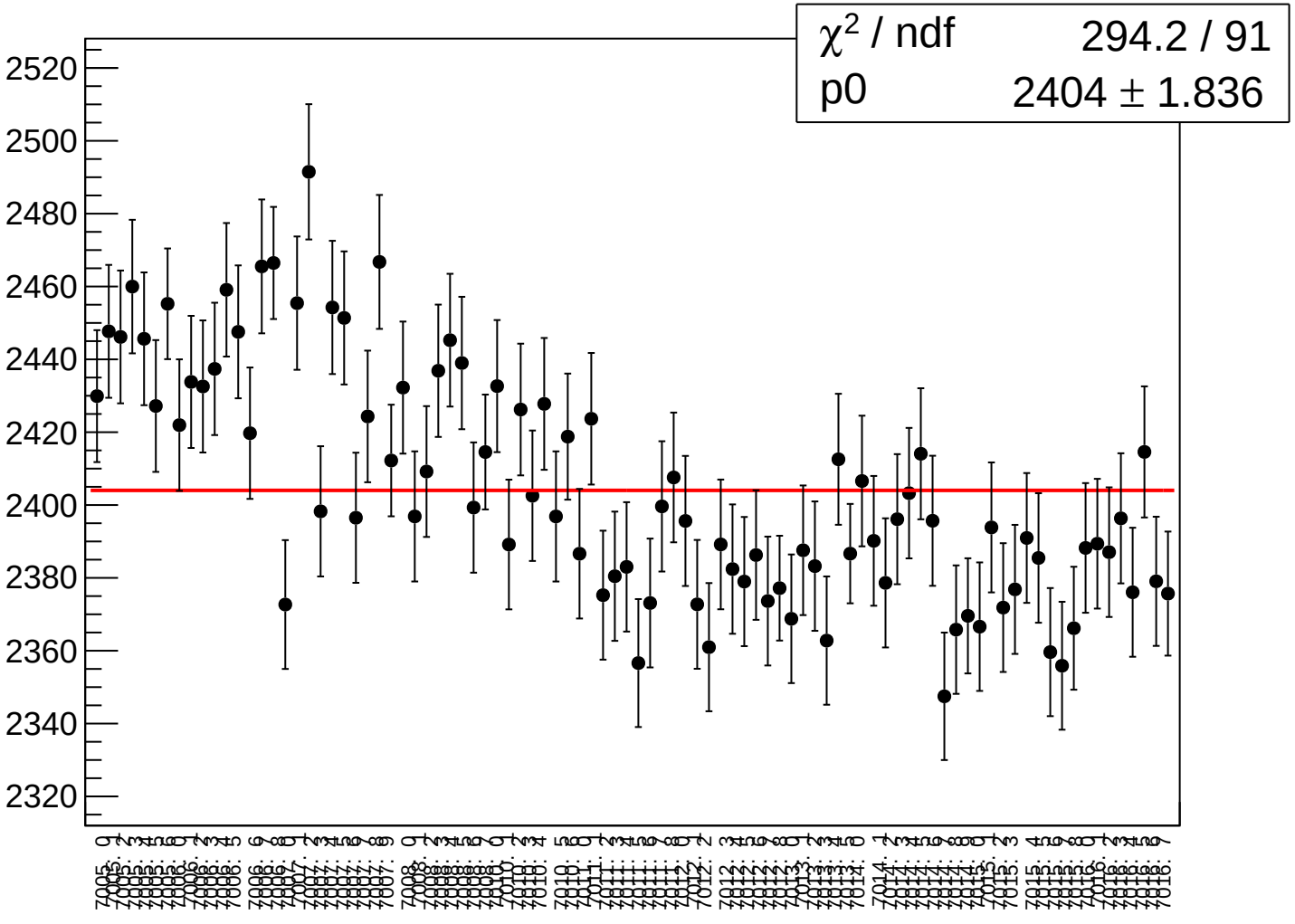

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 90.96 / 91
p0 −1748 ± 827.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 779.2
Std Dev 0
2
1
0
−1
−2
−3

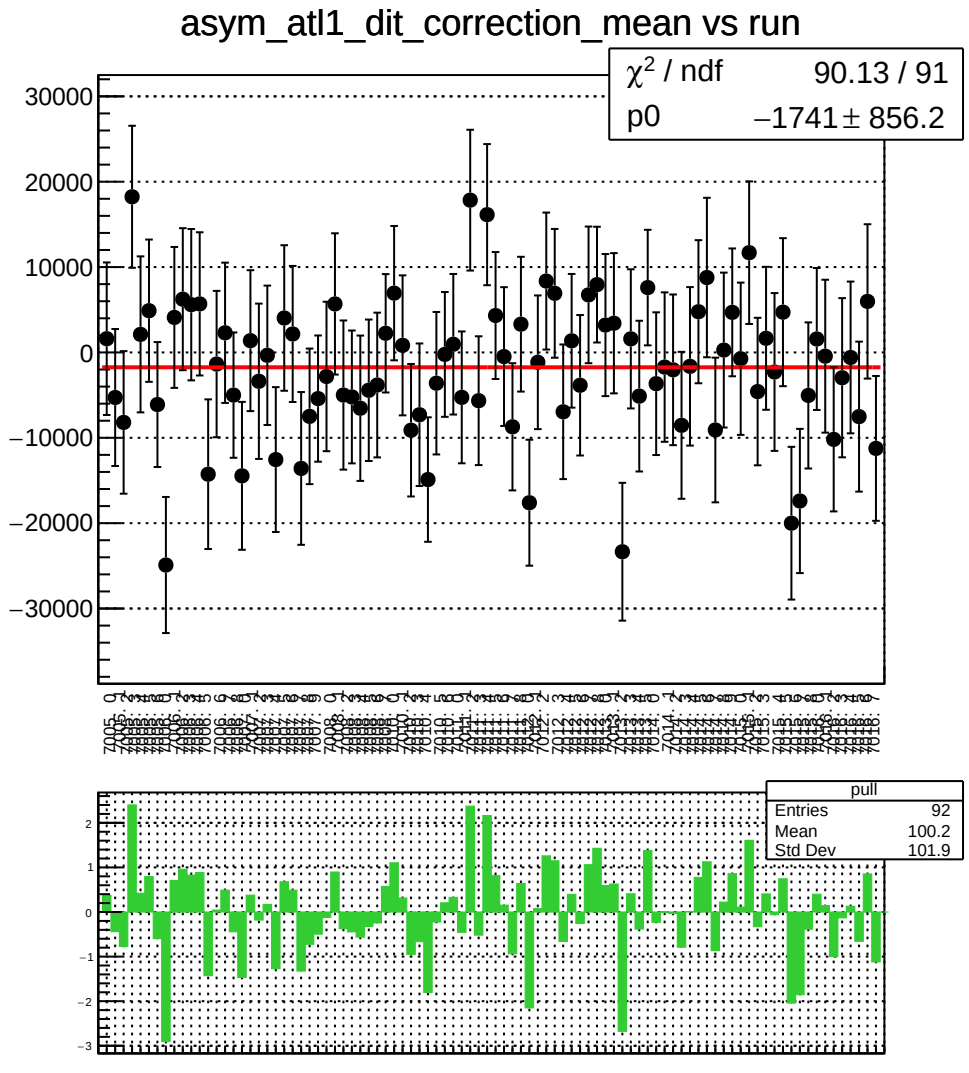

pull1D
Entries 92
Mean −0.0004833
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

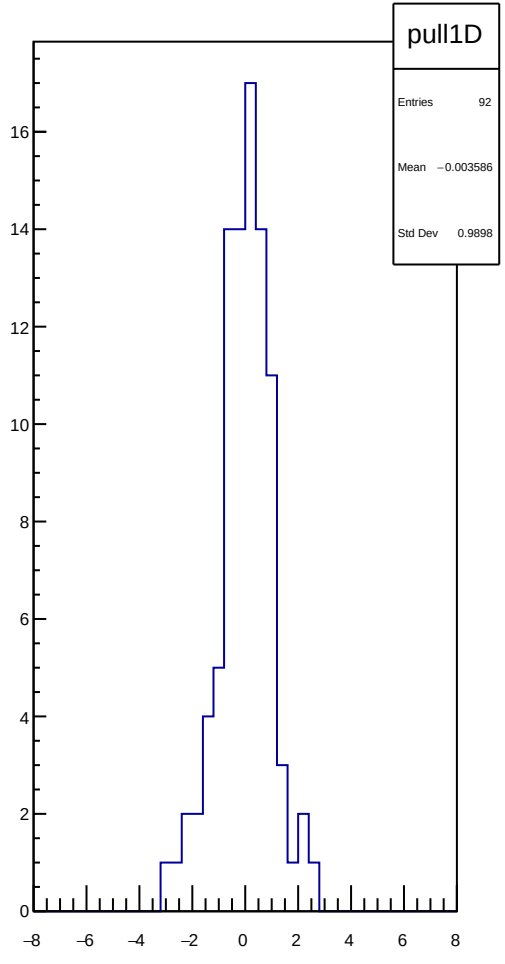

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 9177 / 91
p0 764.6 ± 0.5854
950
900
850
800
750
700
650

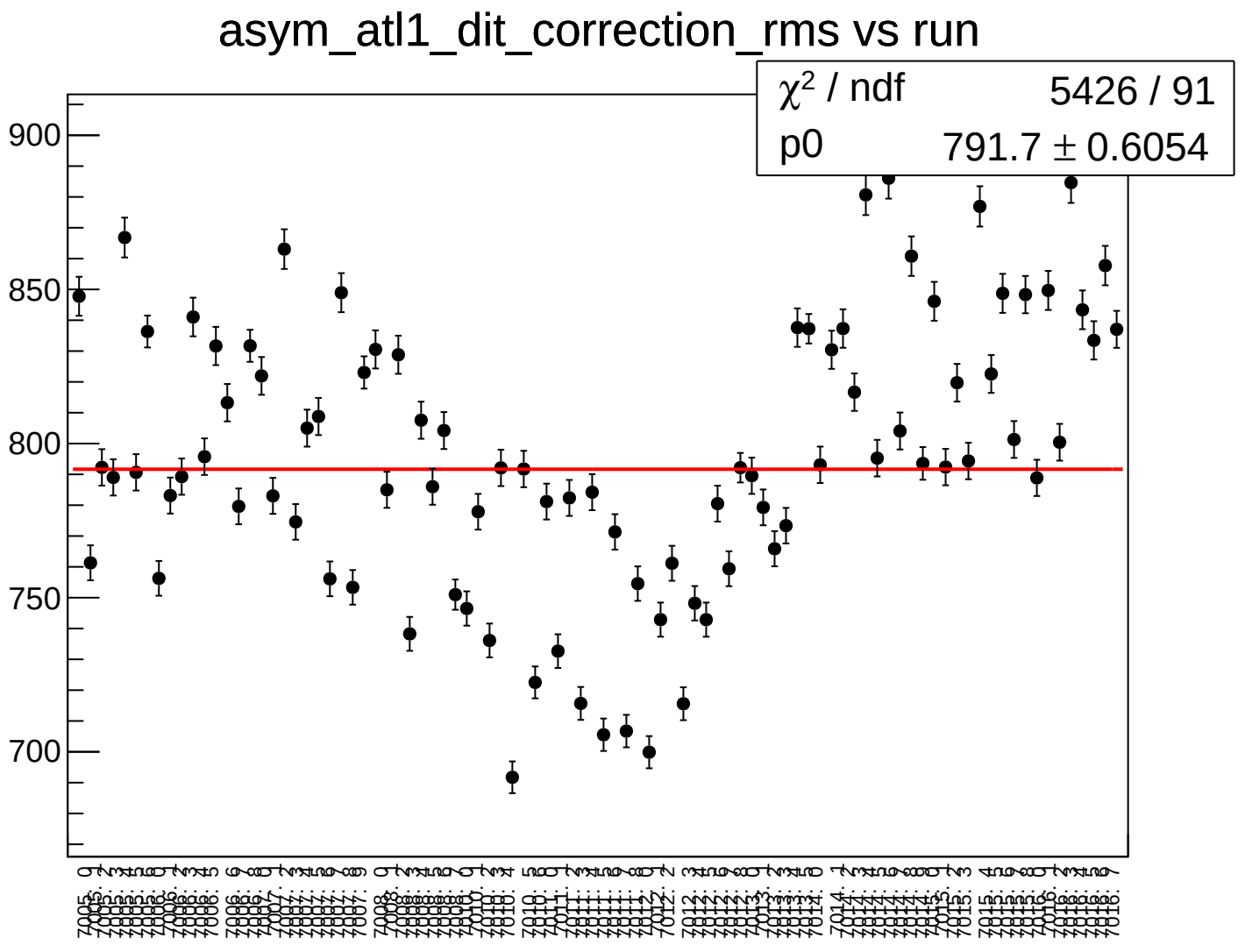

dit_asym_atl1_mean vs run
χ² / ndf 65.42 / 91
p0 5626 ± 2596
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −204.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

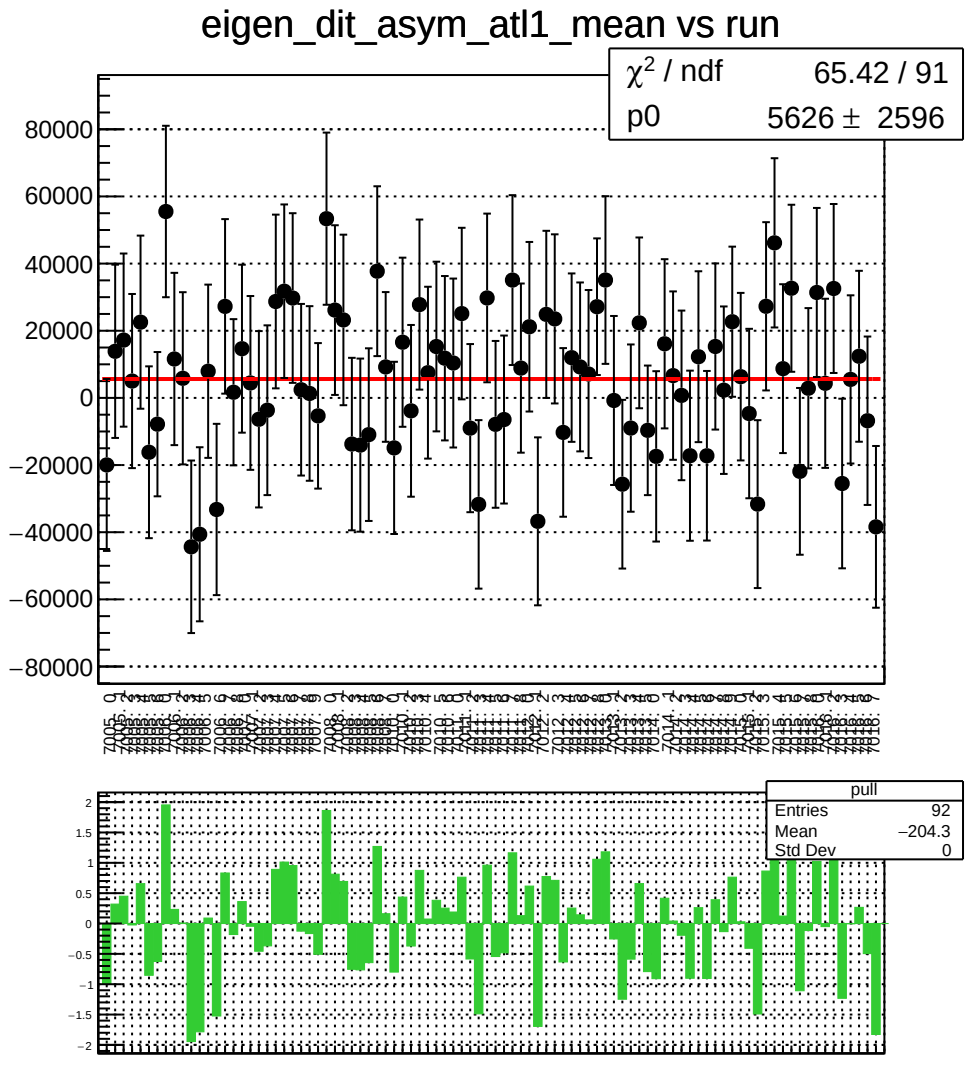

pull1D
Entries 92
Mean 0.001847
Std Dev 0.8433
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

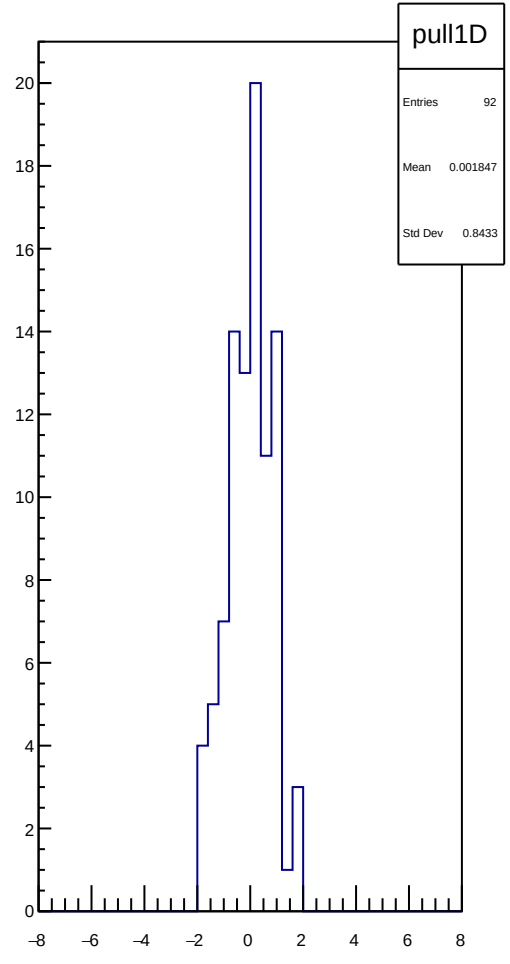

dit_asym_atl1_rms vs run
χ² / ndf 294.2 / 91
p0 2404 ± 1.836
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

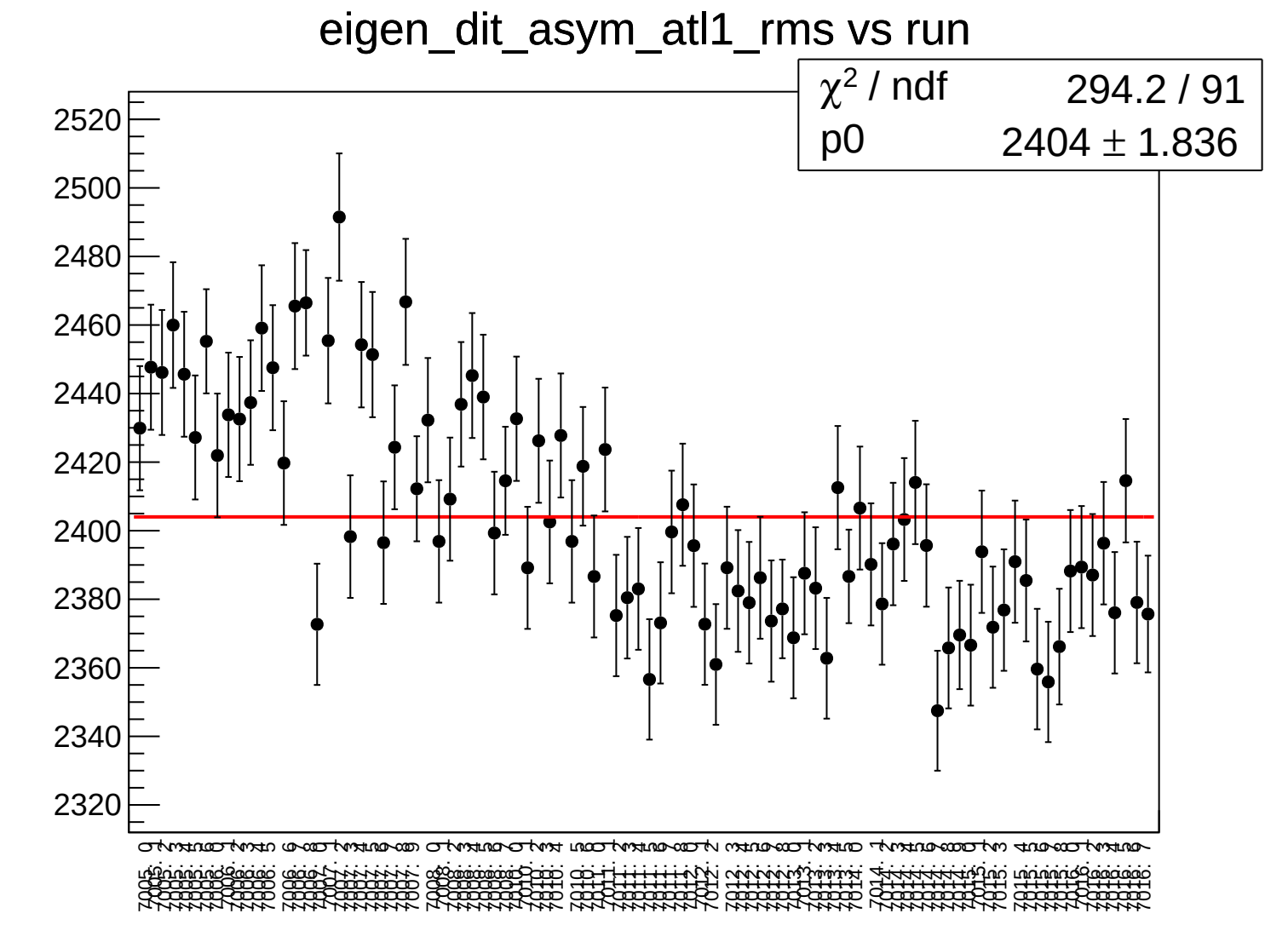

asym_atl1_dit_correction_mean vs run
χ² / ndf 90.13 / 91
p0 −1741 ± 856.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 100.2
Std Dev 101.9
2
1
0
−1
−2
−3

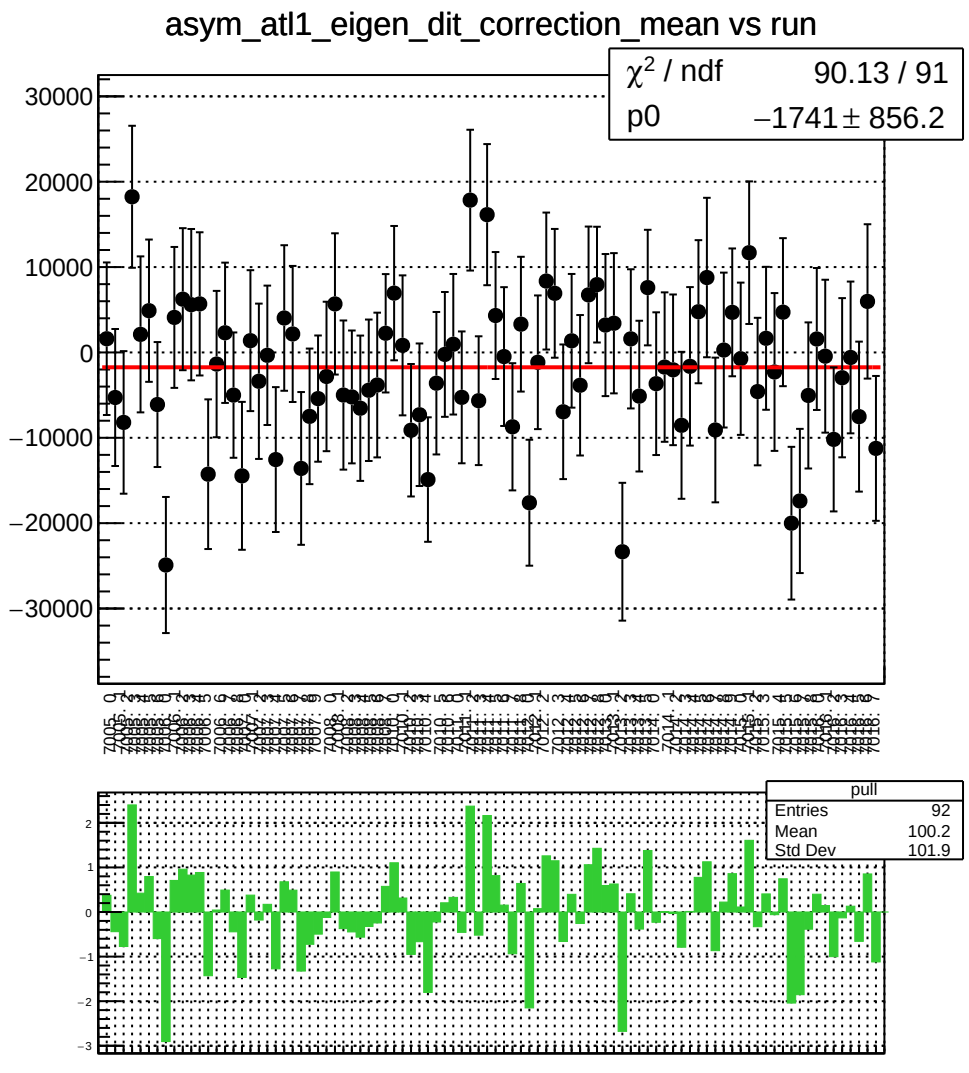

pull1D
Entries 92
Mean −0.003586
Std Dev 0.9898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

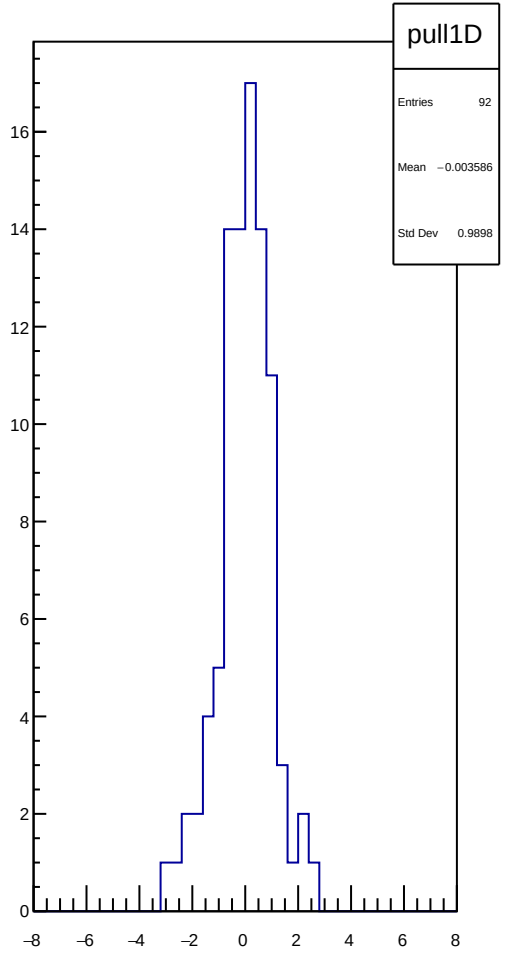

asym_atl1_dit_correction_rms vs run
χ² / ndf 5426 / 91
p0 791.7 ± 0.6054
900
850
800
750
700

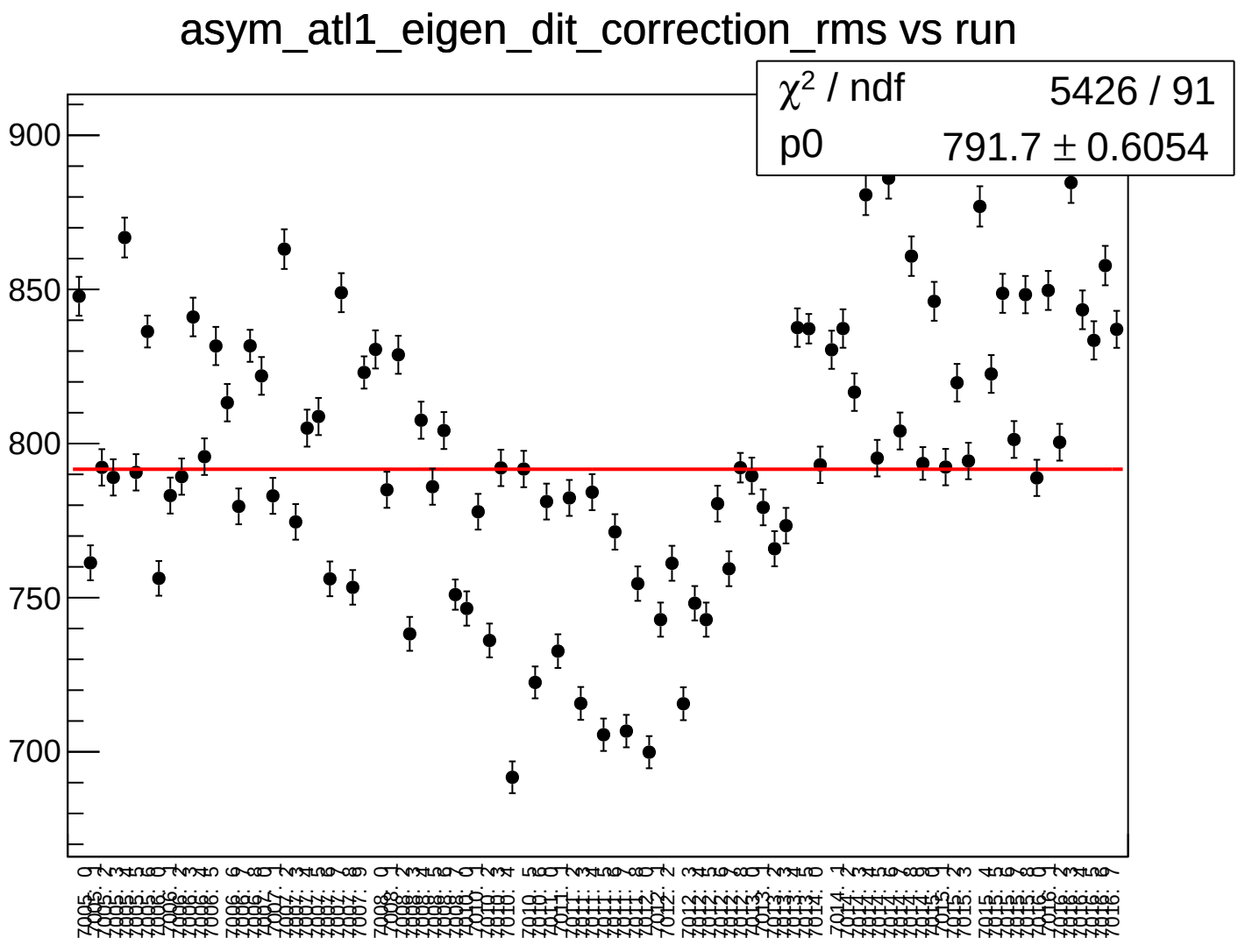

eigen_dit_asym_atl1_mean vs run
χ² / ndf 65.42 / 91
p0 5626 ± 2596
pull
Entries 92
Mean −204.3
Std Dev 0

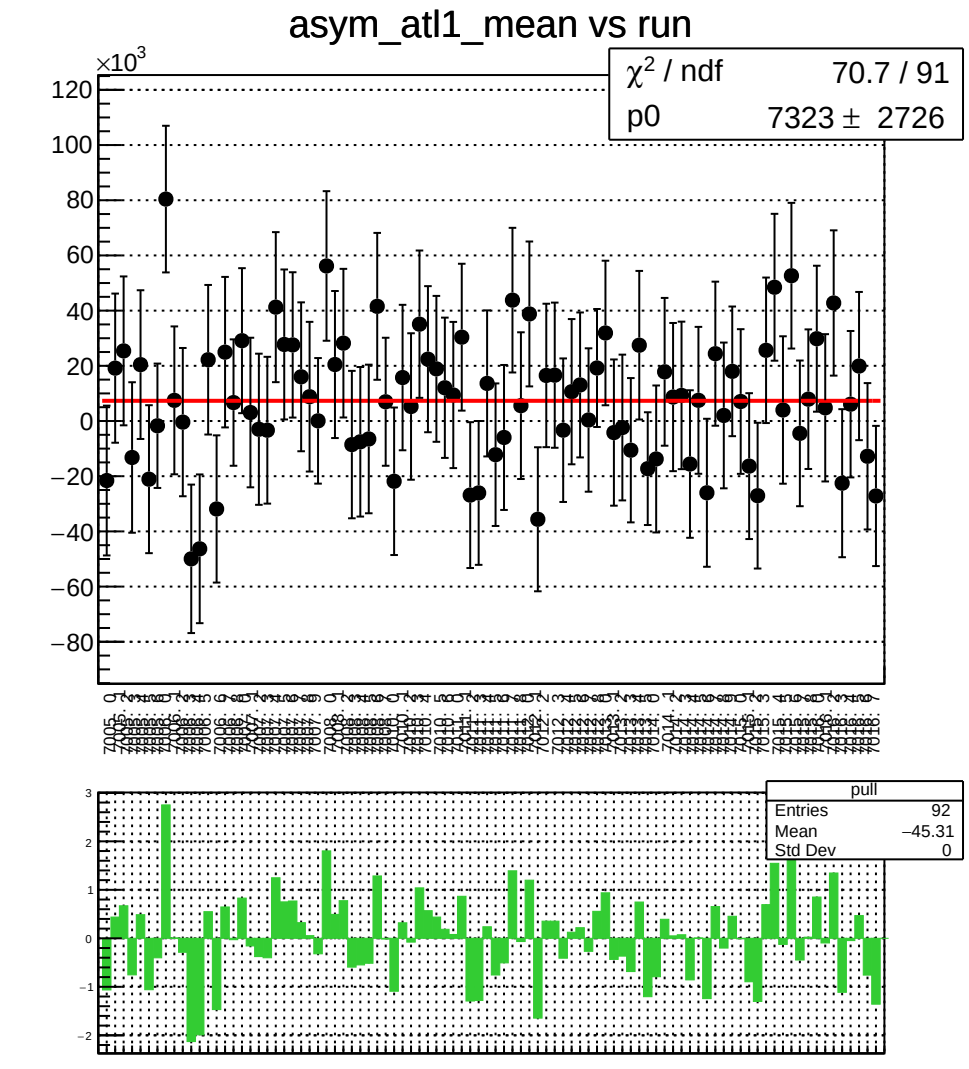

pull1D
Entries 92
Mean 0.001847
Std Dev 0.8433

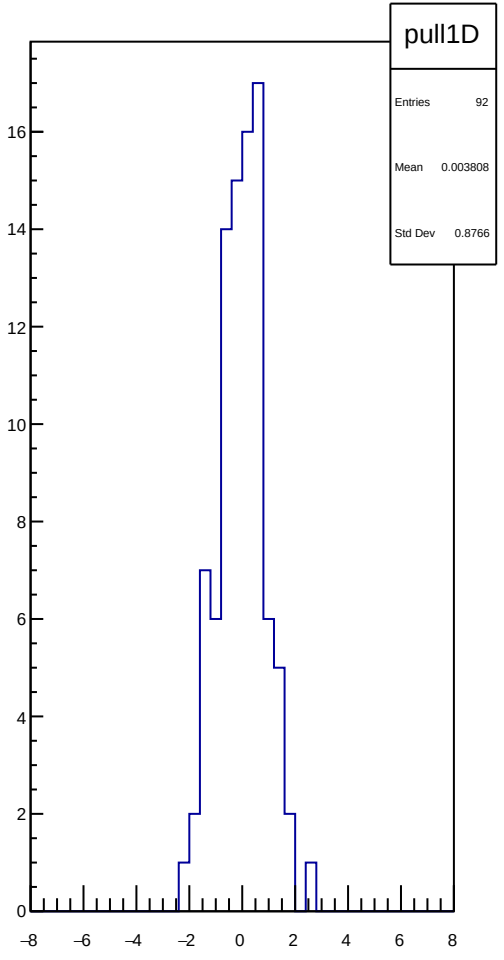

eigen_dit_asym_atl1_rms vs run
$\chi^2$ / ndf 294.2 / 91
p0 2404 ± 1.836
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

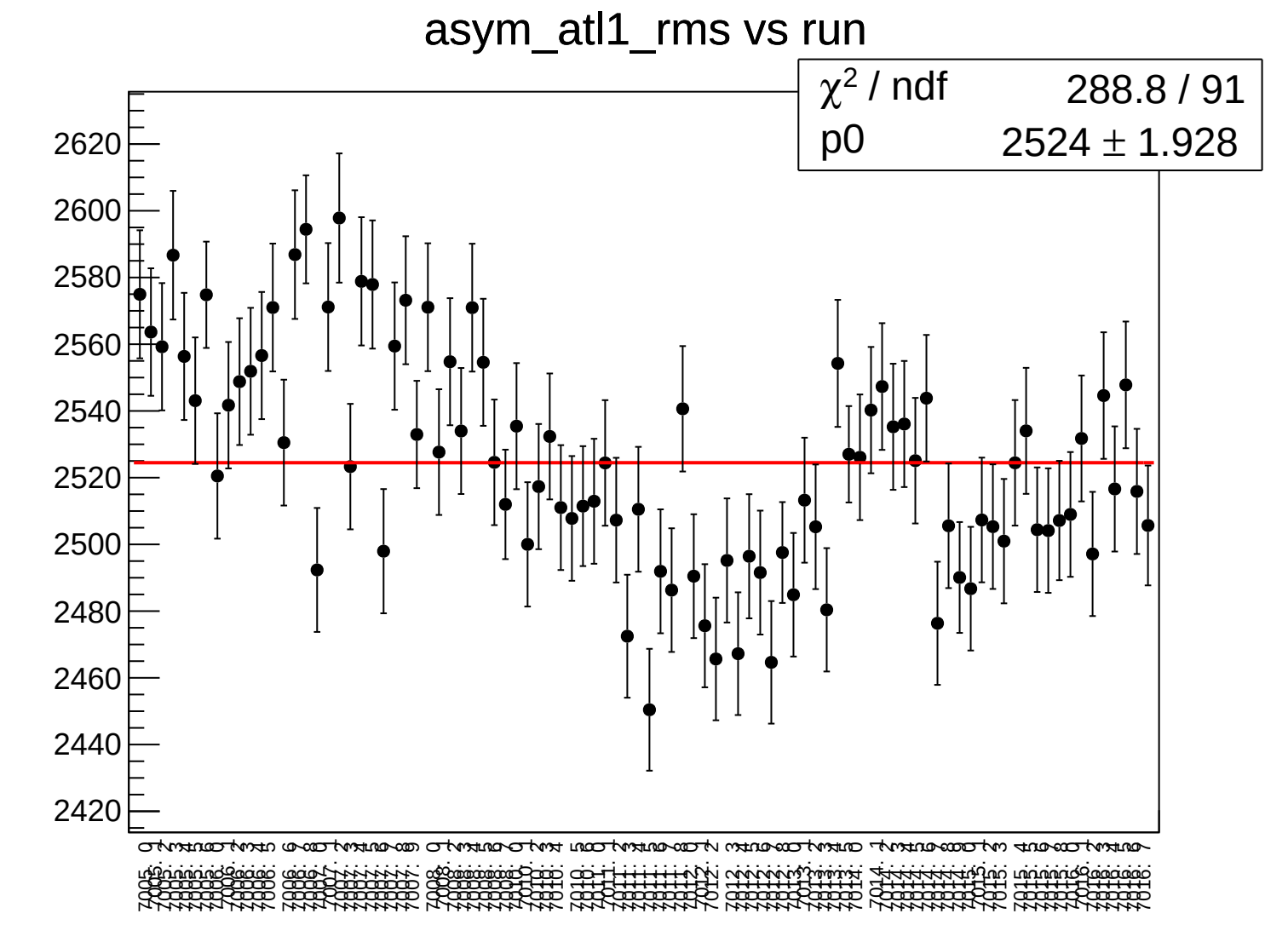

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 90.13 / 91
p0 −1741 ± 856.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 100.2
Std Dev 101.9
2
1
0
−1
−2
−3

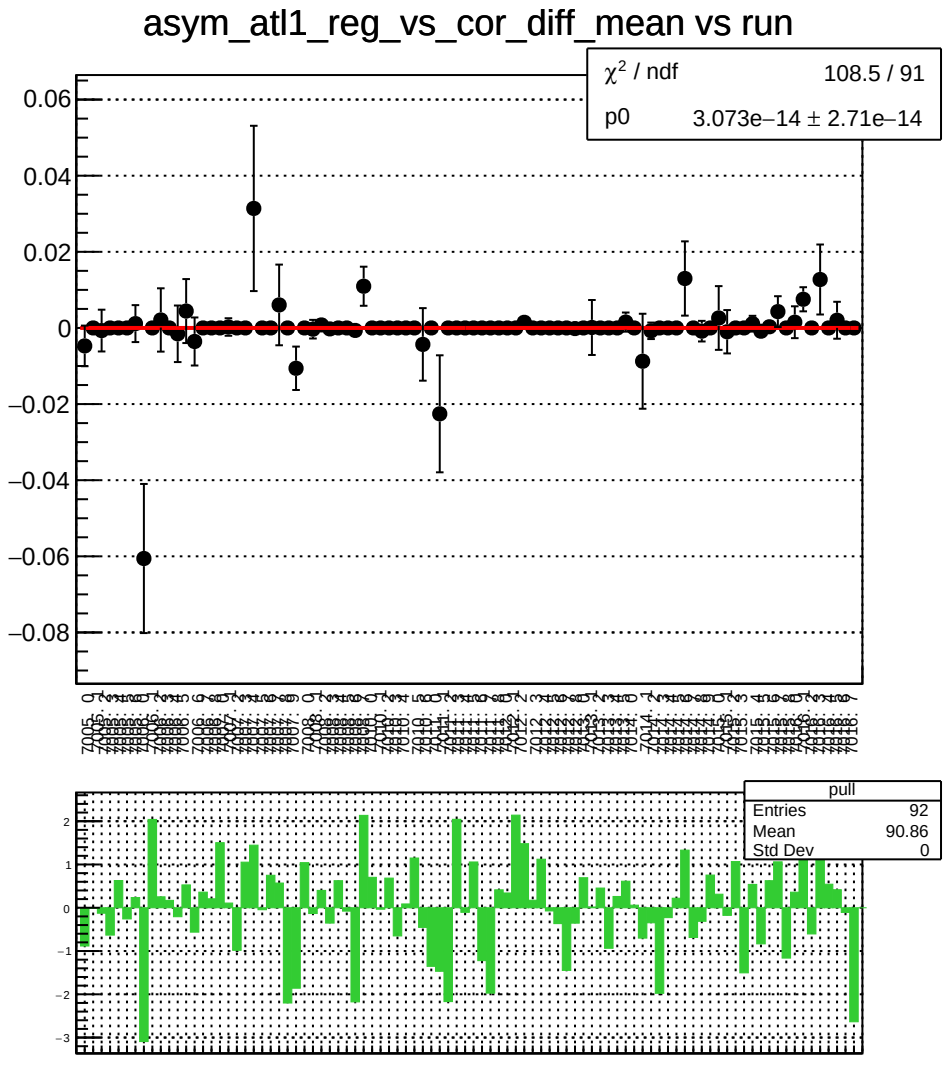

pull1D
Entries 92
Mean −0.003586
Std Dev 0.9898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

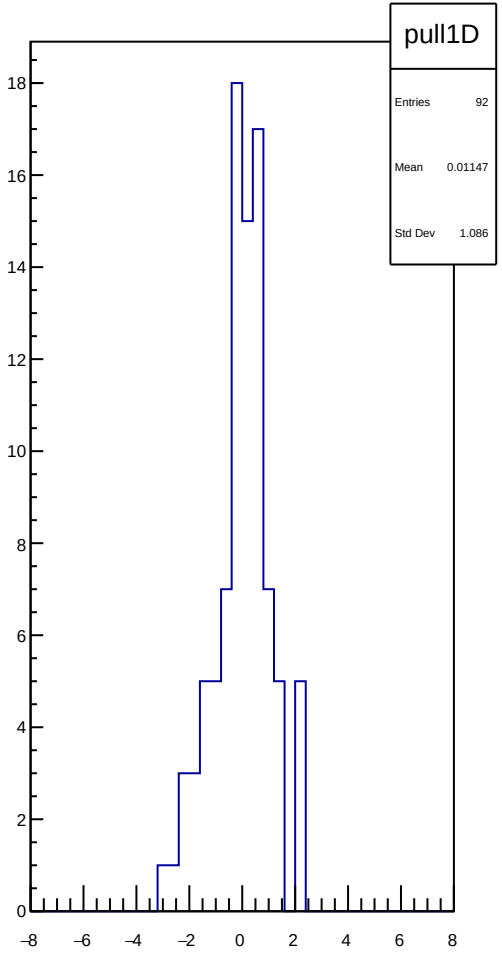

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 5426 / 91
p0 791.7 ± 0.6054
900
850
800
750
700

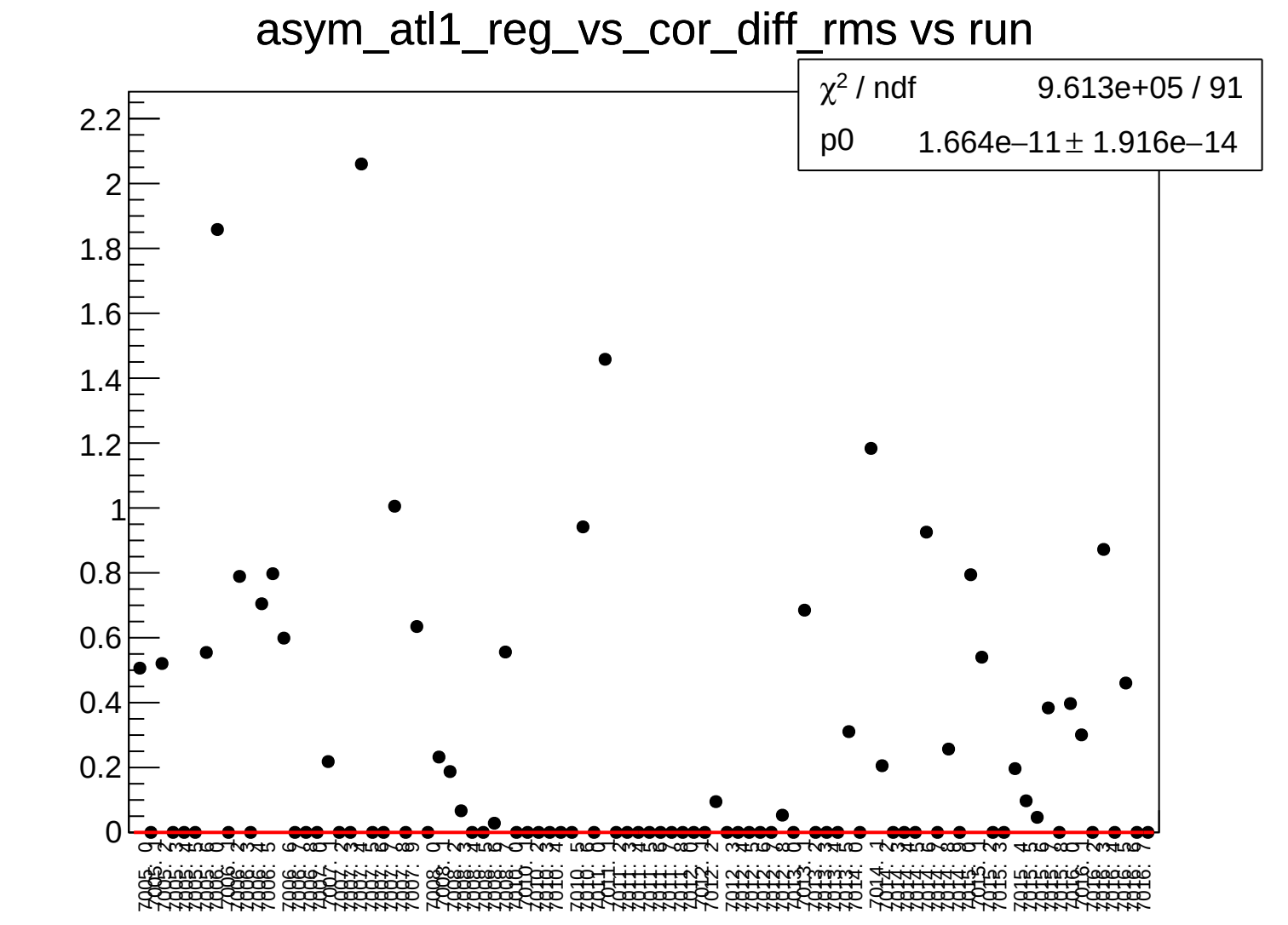

asym_atl1_mean vs run
×10^3
χ^2 / ndf 70.7 / 91
p0 7323 ± 2726
pull
Entries 92
Mean −45.31
Std Dev 0

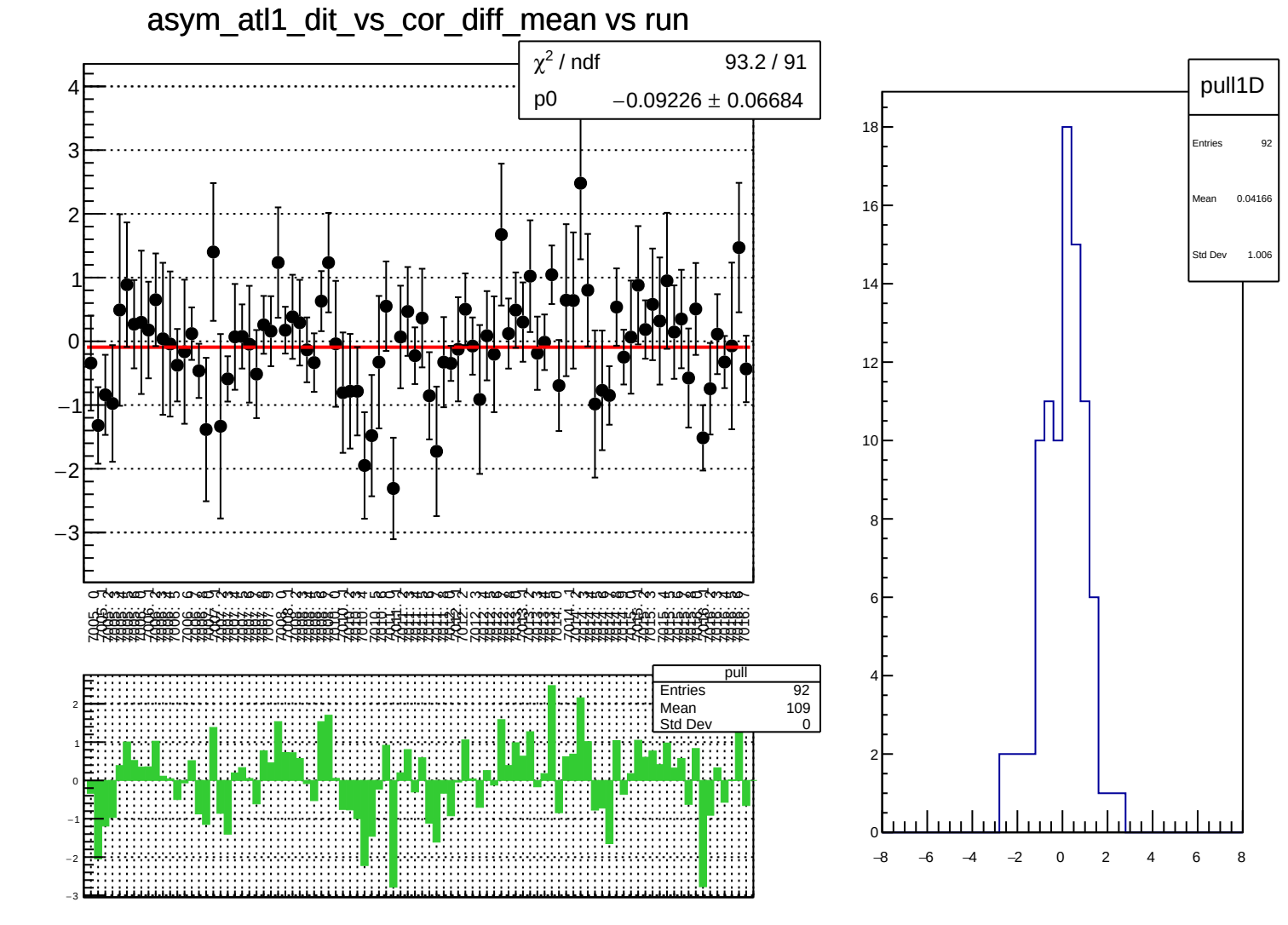

pull1D
Entries 92
Mean 0.003808
Std Dev 0.8766

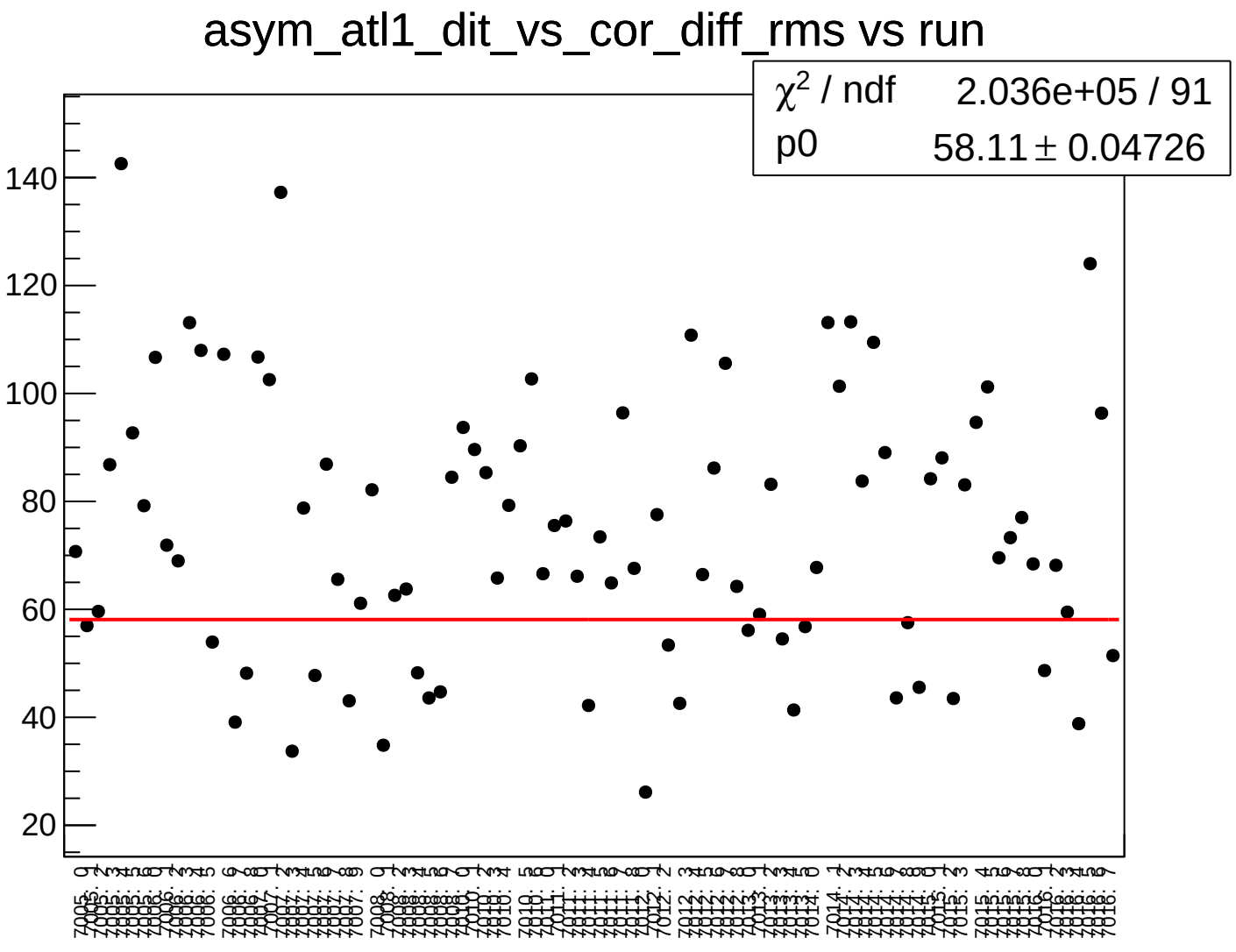

asym_atl1_rms vs run
χ² / ndf 288.8 / 91
p0 2524 ± 1.928
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

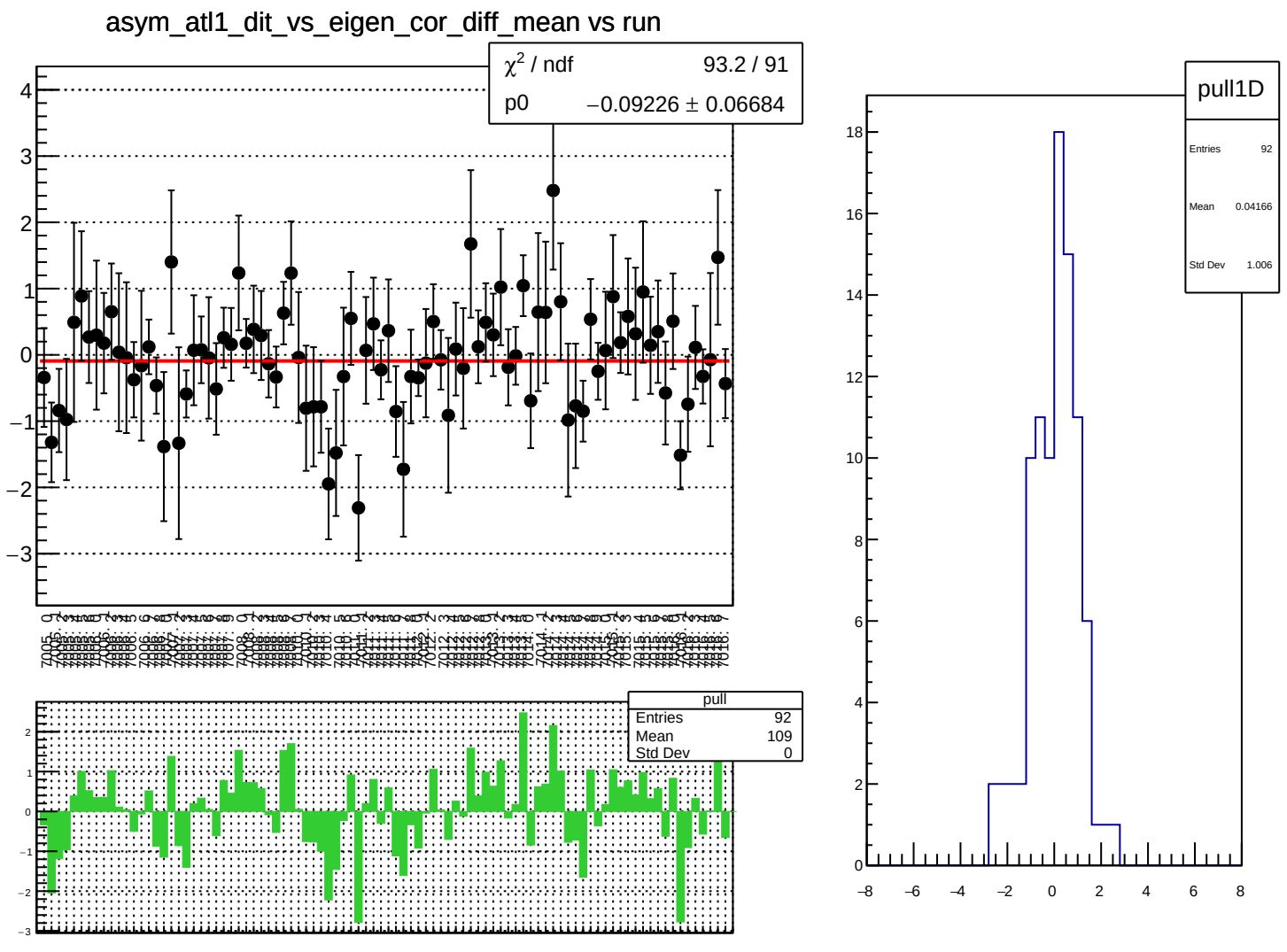

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 108.5 / 91
p0 3.073e−14 ± 2.71e−14
pull
Entries 92
Mean 90.86
Std Dev 0

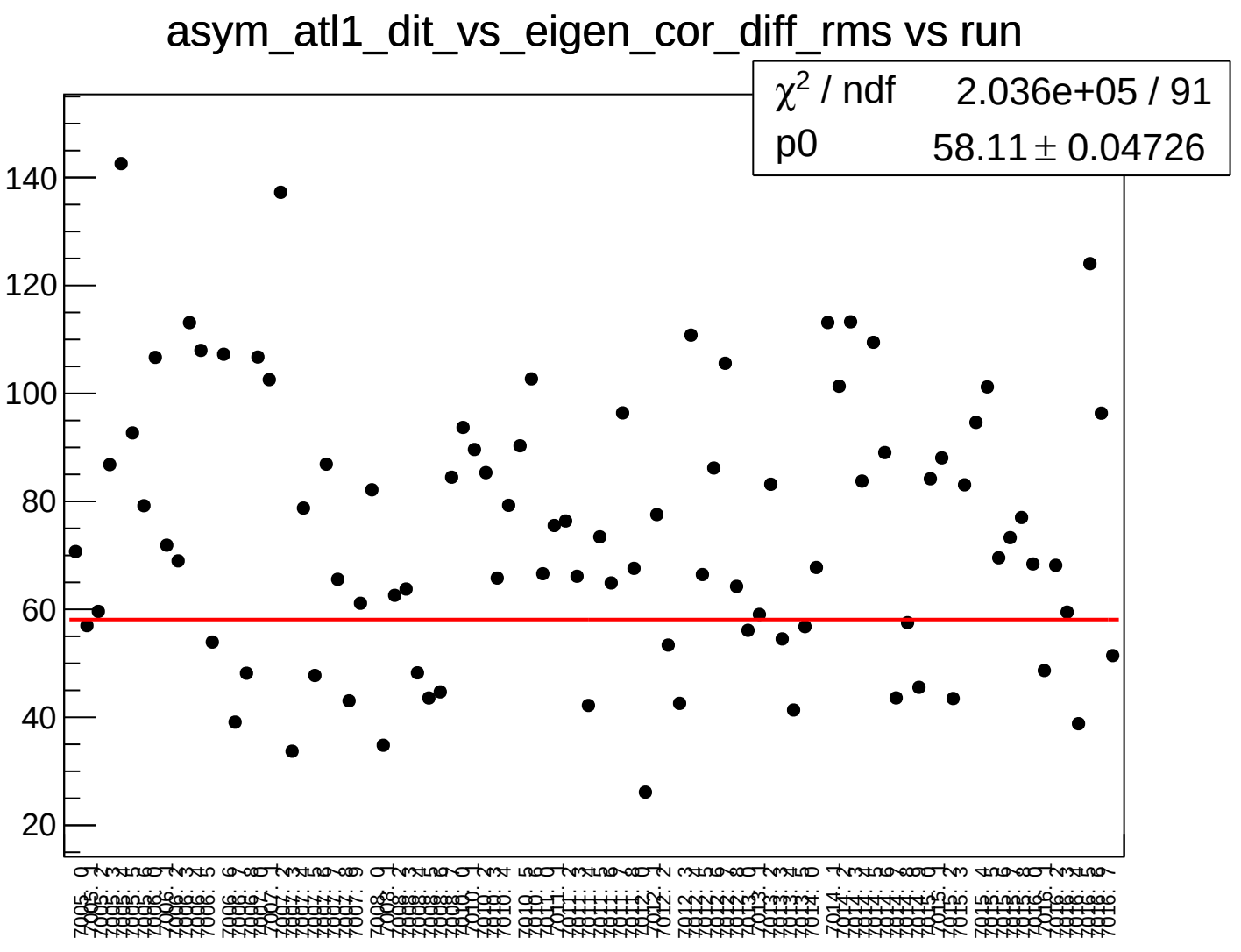

pull1D
Entries 92
Mean 0.01147
Std Dev 1.086

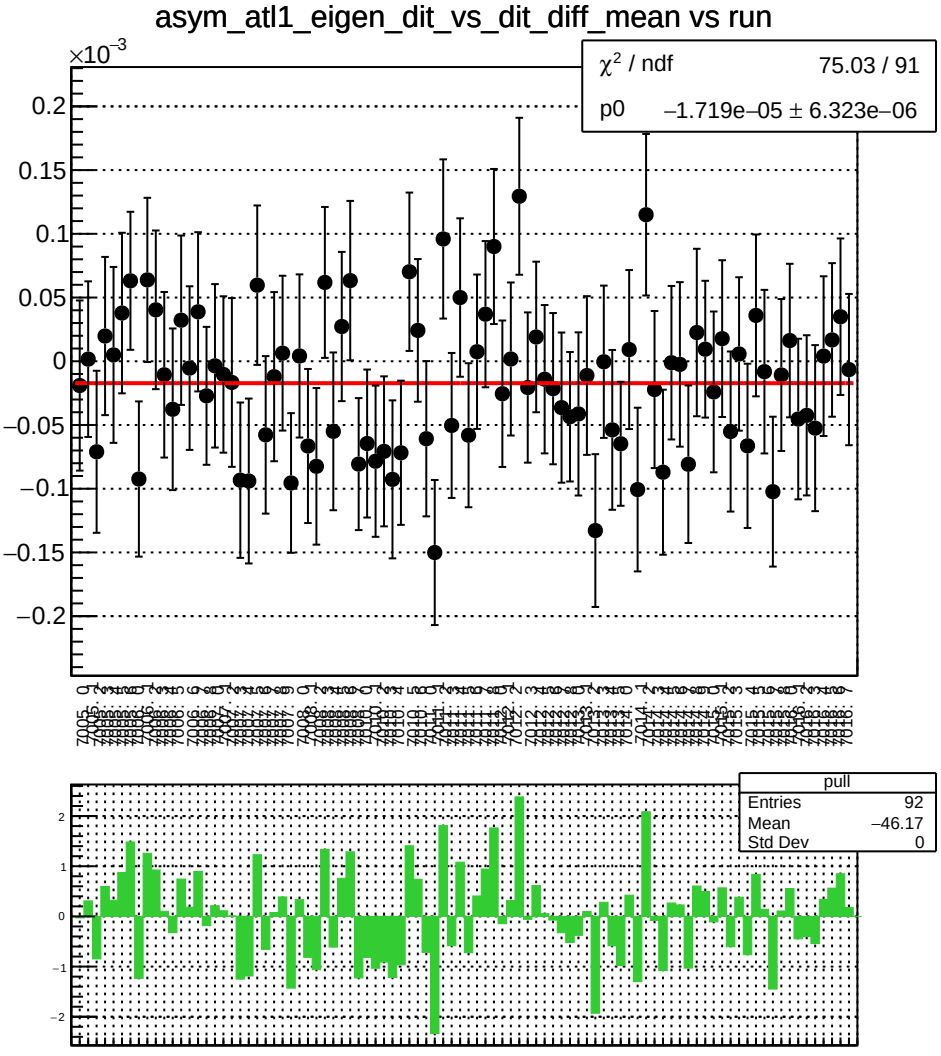

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.613e+05 / 91
p0 1.664e−11 ± 1.916e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

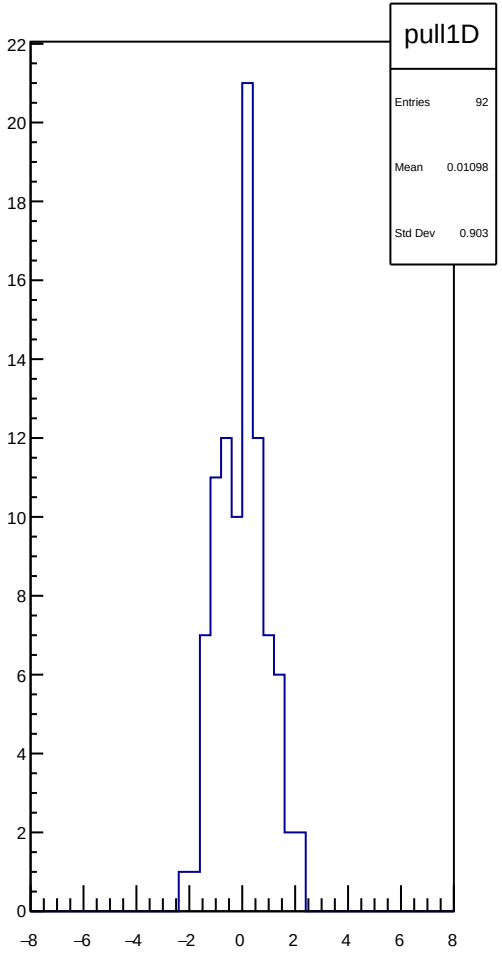

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 93.2 / 91
p0 −0.09226 ± 0.06684
pull
Entries 92
Mean 109
Std Dev 0
pull1D
Entries 92
Mean 0.04166
Std Dev 1.006

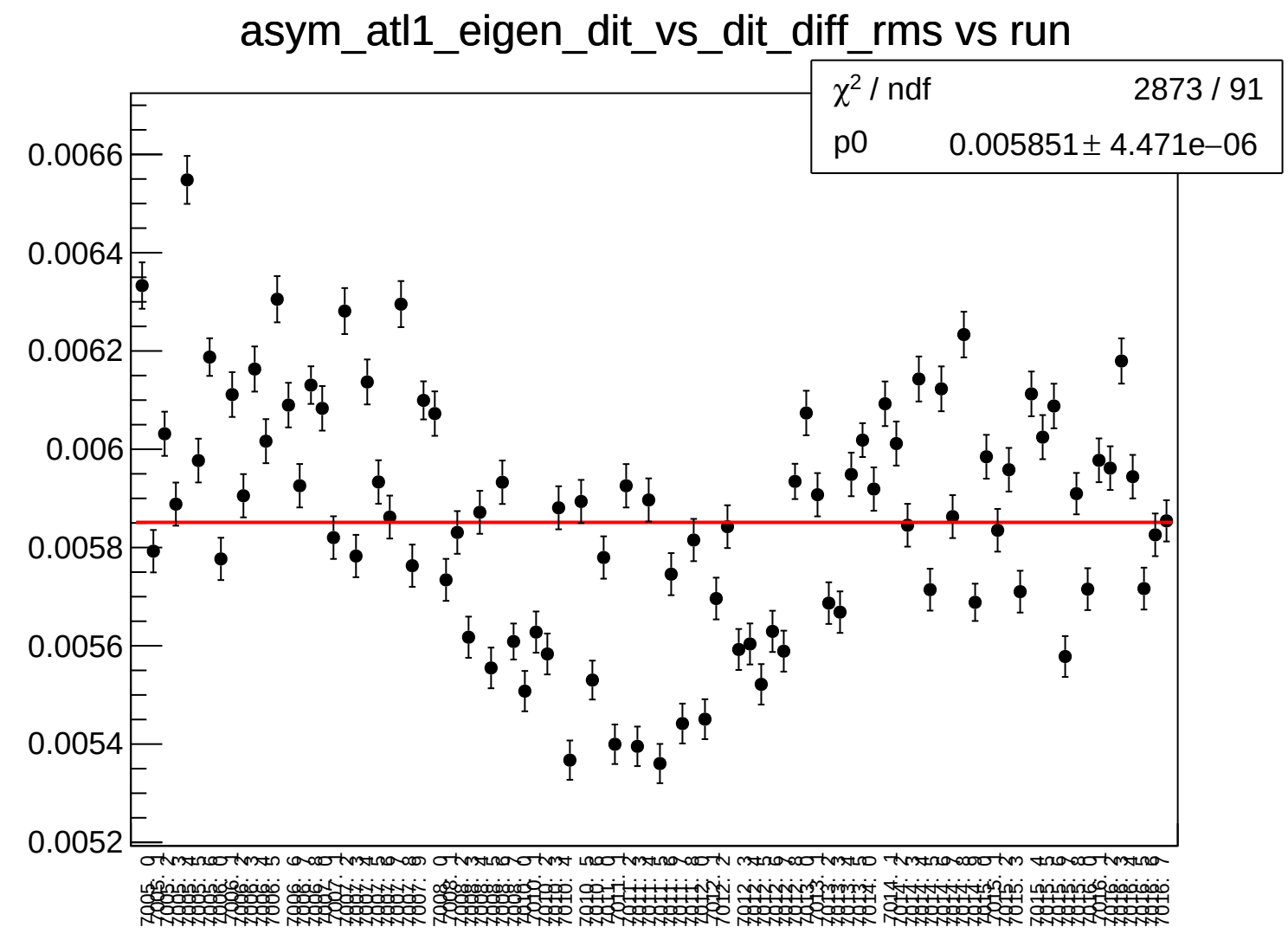

asym_atl1_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.036e+05 / 91
p0 58.11 ± 0.04726
140
120
100
80
60
40
20

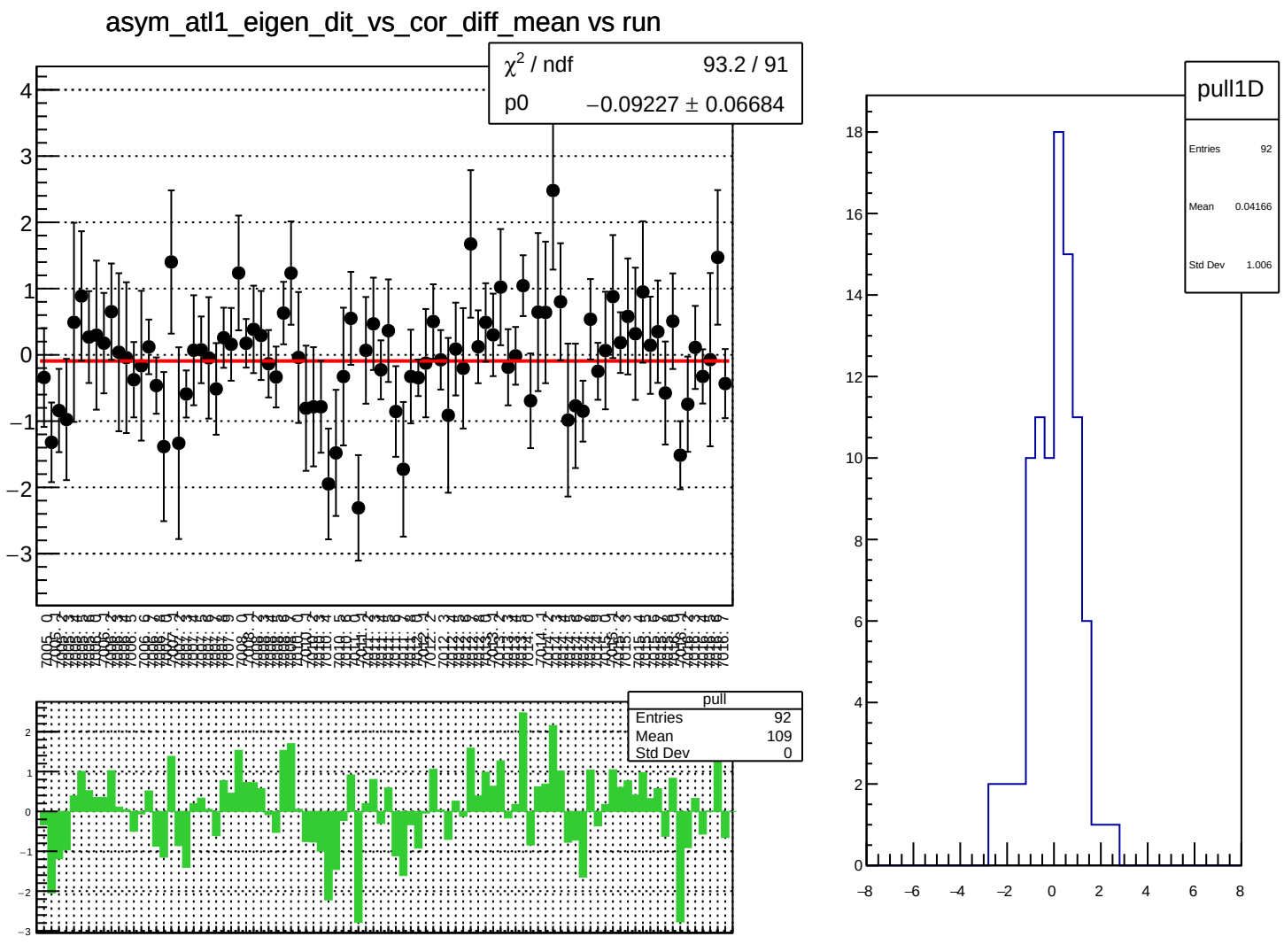

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.2 / 91
p0 −0.09226 ± 0.06684
pull
Entries 92
Mean 109
Std Dev 0
pull1D
Entries 92
Mean 0.04166
Std Dev 1.006

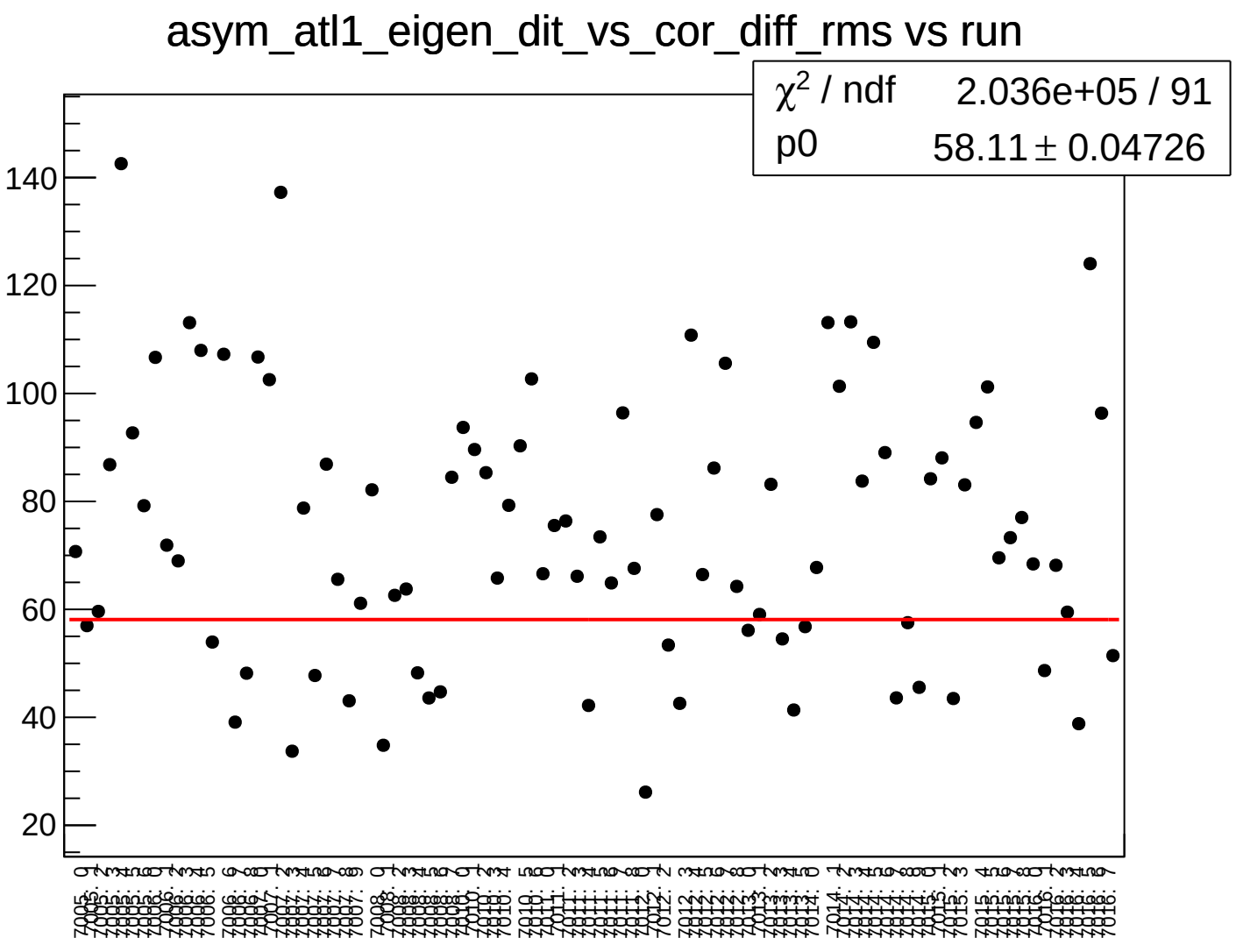

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 91
p0 58.11 ± 0.04726
140
120
100
80
60
40
20

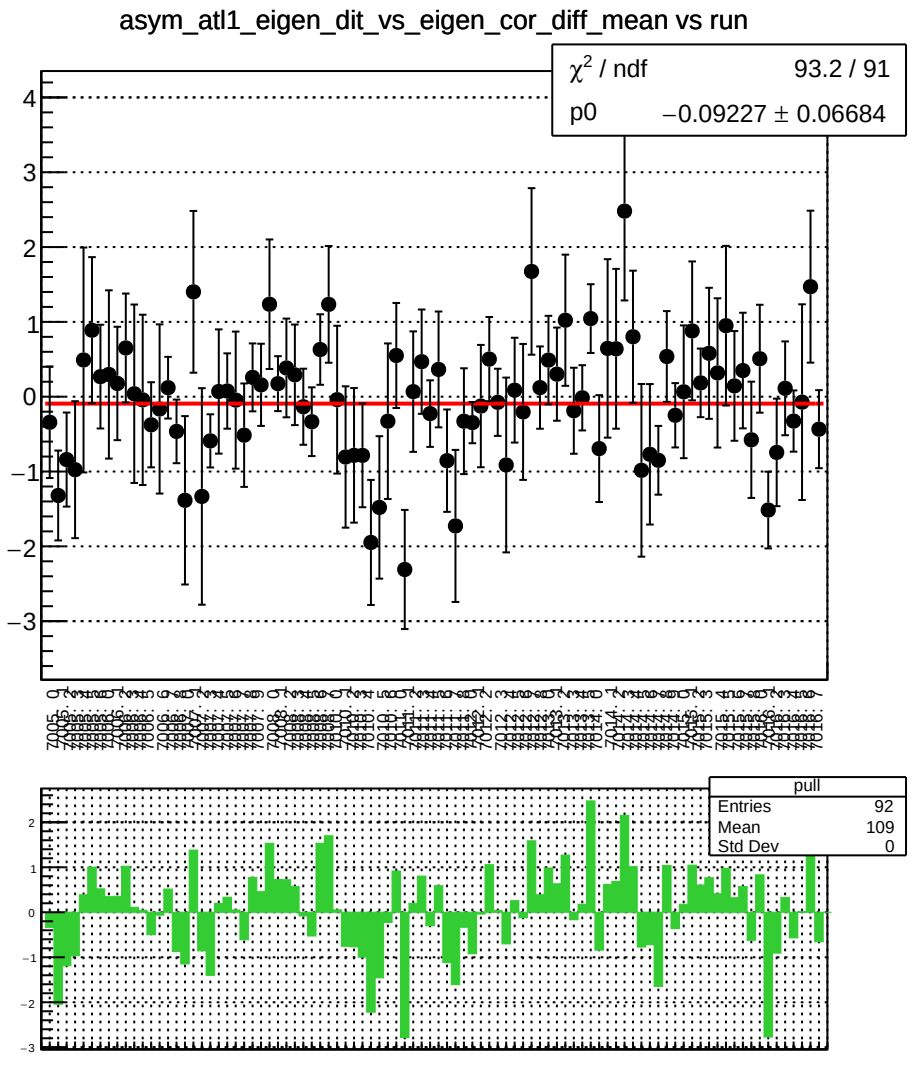

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.03 / 91
p0 −1.719e−05 ± 6.323e−06
pull
Entries 92
Mean −46.17
Std Dev 0

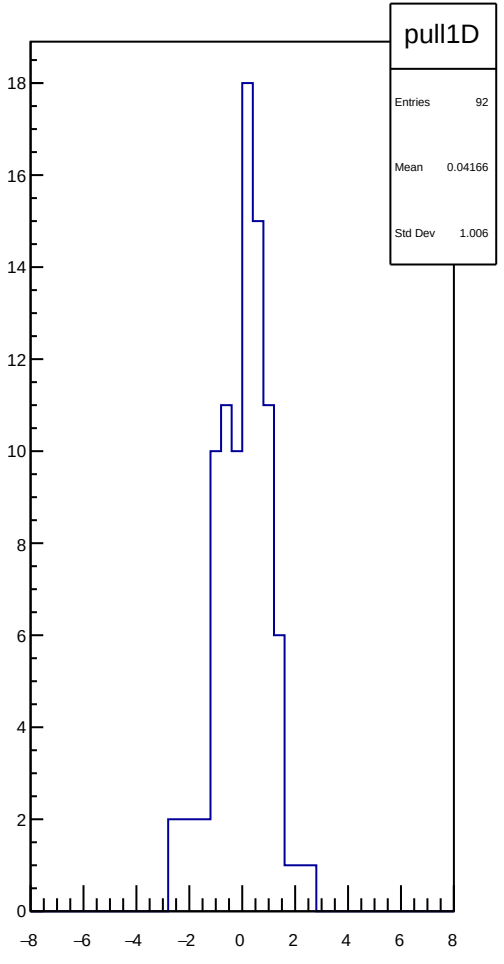

pull1D
Entries 92
Mean 0.01098
Std Dev 0.903

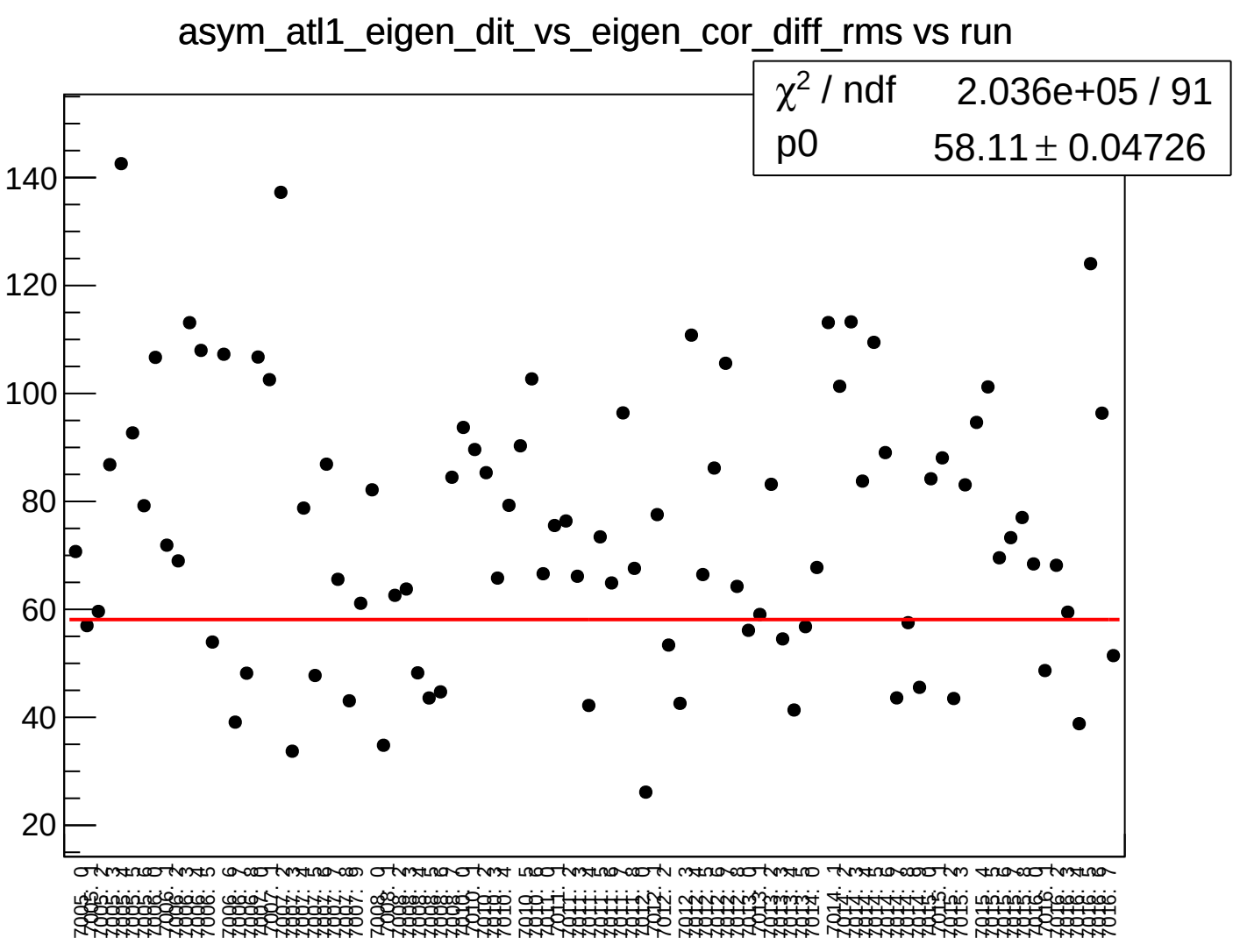

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2873 / 91
p0 0.005851 ± 4.471e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

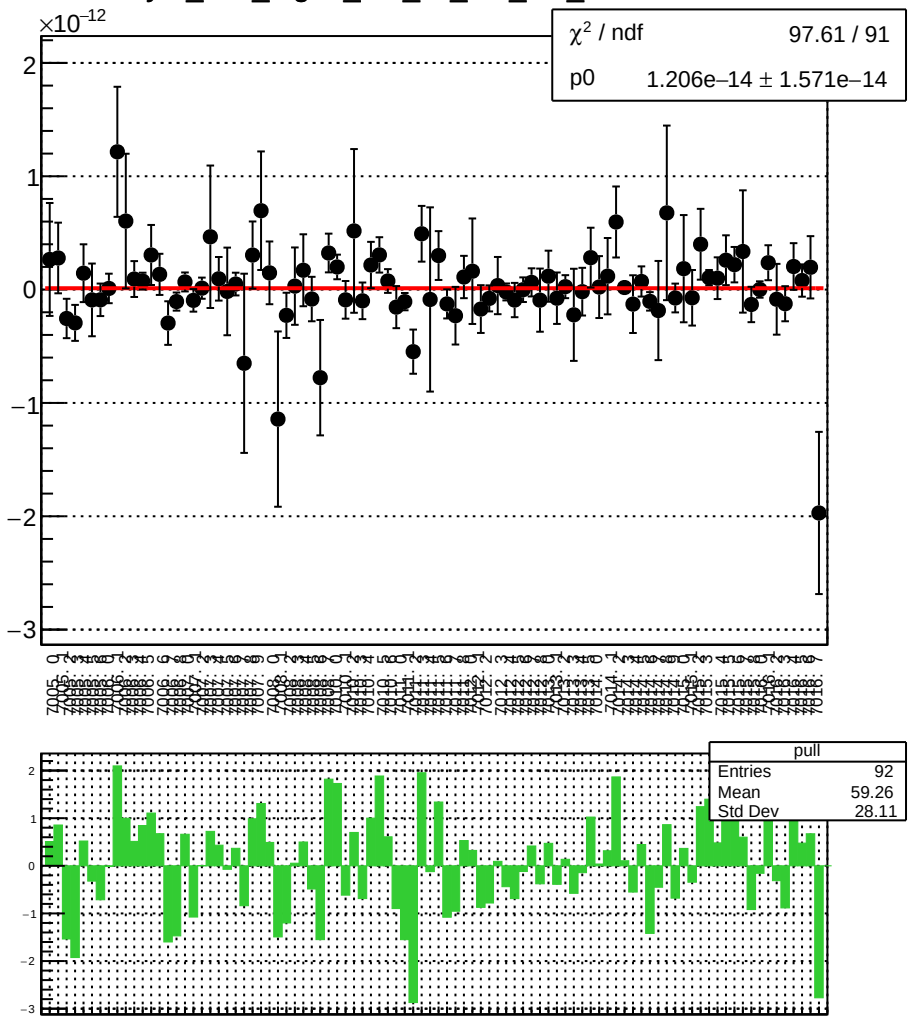

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.2 / 91
p0 −0.09227 ± 0.06684
pull
Entries 92
Mean 109
Std Dev 0
pull1D
Entries 92
Mean 0.04166
Std Dev 1.006

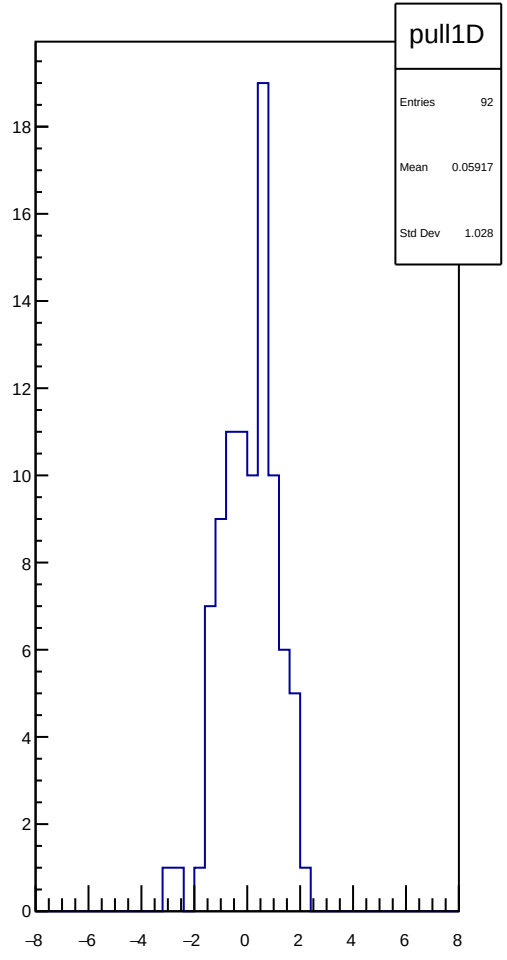

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 91
p0 58.11 ± 0.04726
140
120
100
80
60
40
20

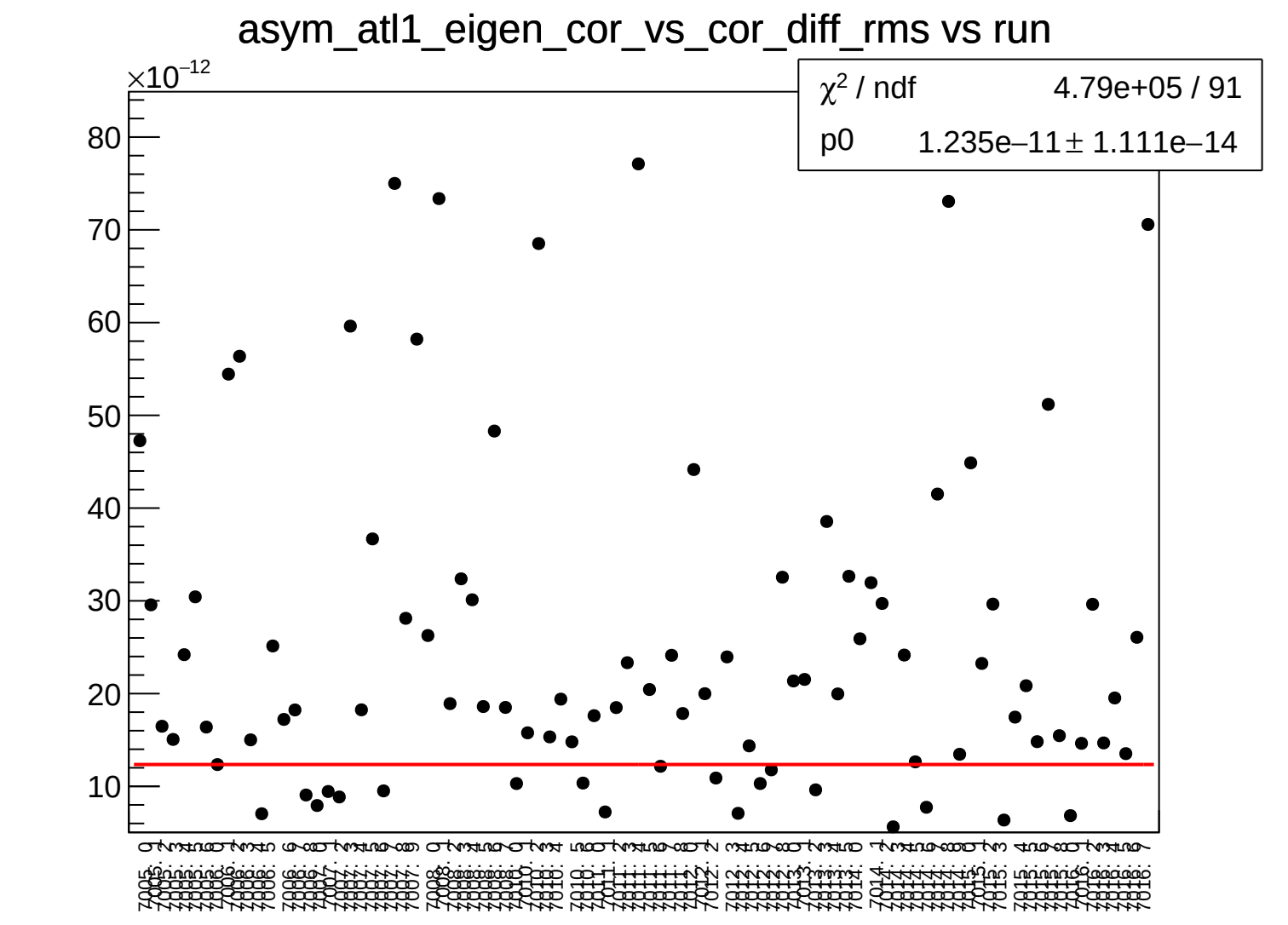

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.2 / 91
p0 −0.09227 ± 0.06684
pull
Entries 92
Mean 109
Std Dev 0

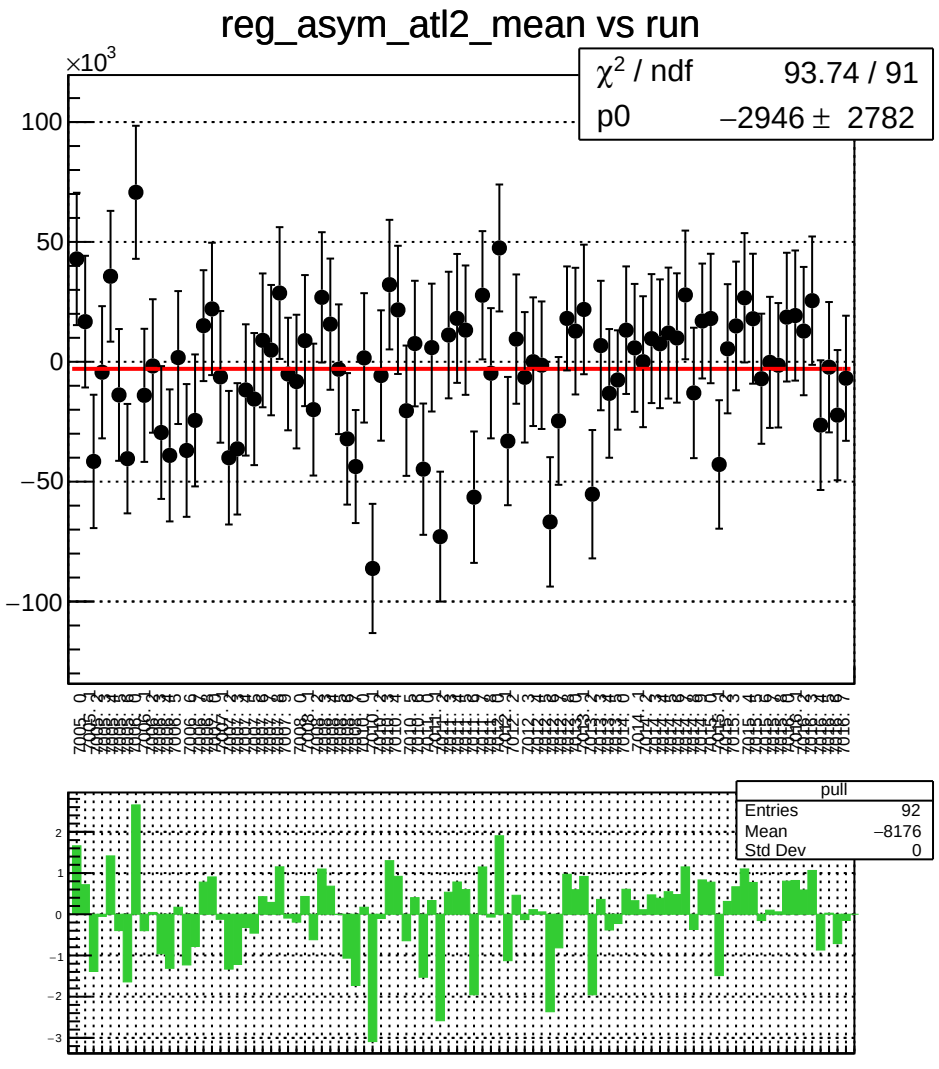

pull1D
Entries 92
Mean 0.04166
Std Dev 1.006

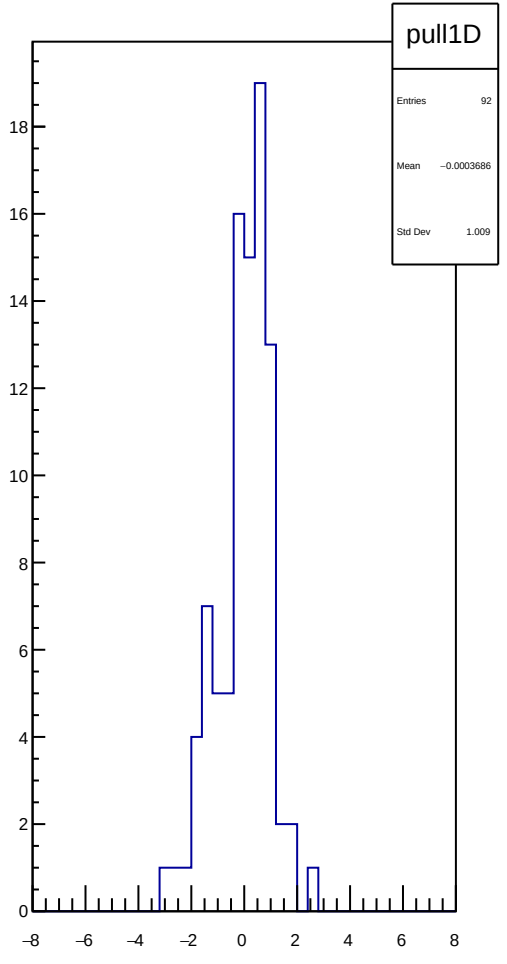

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 91
p0 58.11 ± 0.04726
140
120
100
80
60
40
20


asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.61 / 91
p0 1.206e−14 ± 1.571e−14
pull
Entries 92
Mean 59.26
Std Dev 28.11


pull1D
Entries 92
Mean 0.05917
Std Dev 1.028


asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.79e+05 / 91
p0 1.235e−11 ± 1.111e−14
80
70
60
50
40
30
20
10


reg_asym_atl2_mean vs run
×10^3
χ² / ndf 93.74 / 91
p0 −2946 ± 2782
100
50
0
−50
−100
pull
Entries 92
Mean −8176
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 92
Mean −0.0003686
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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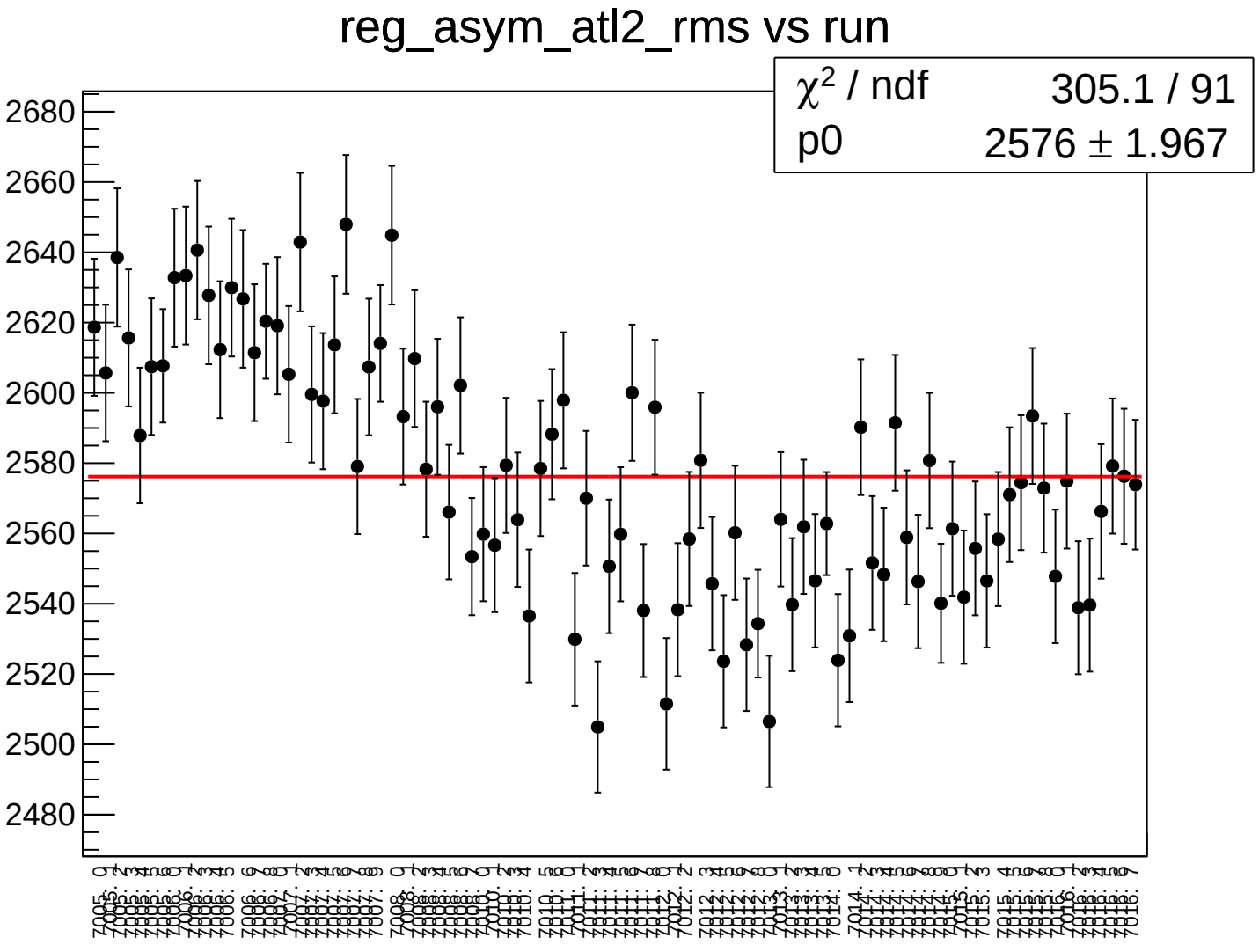
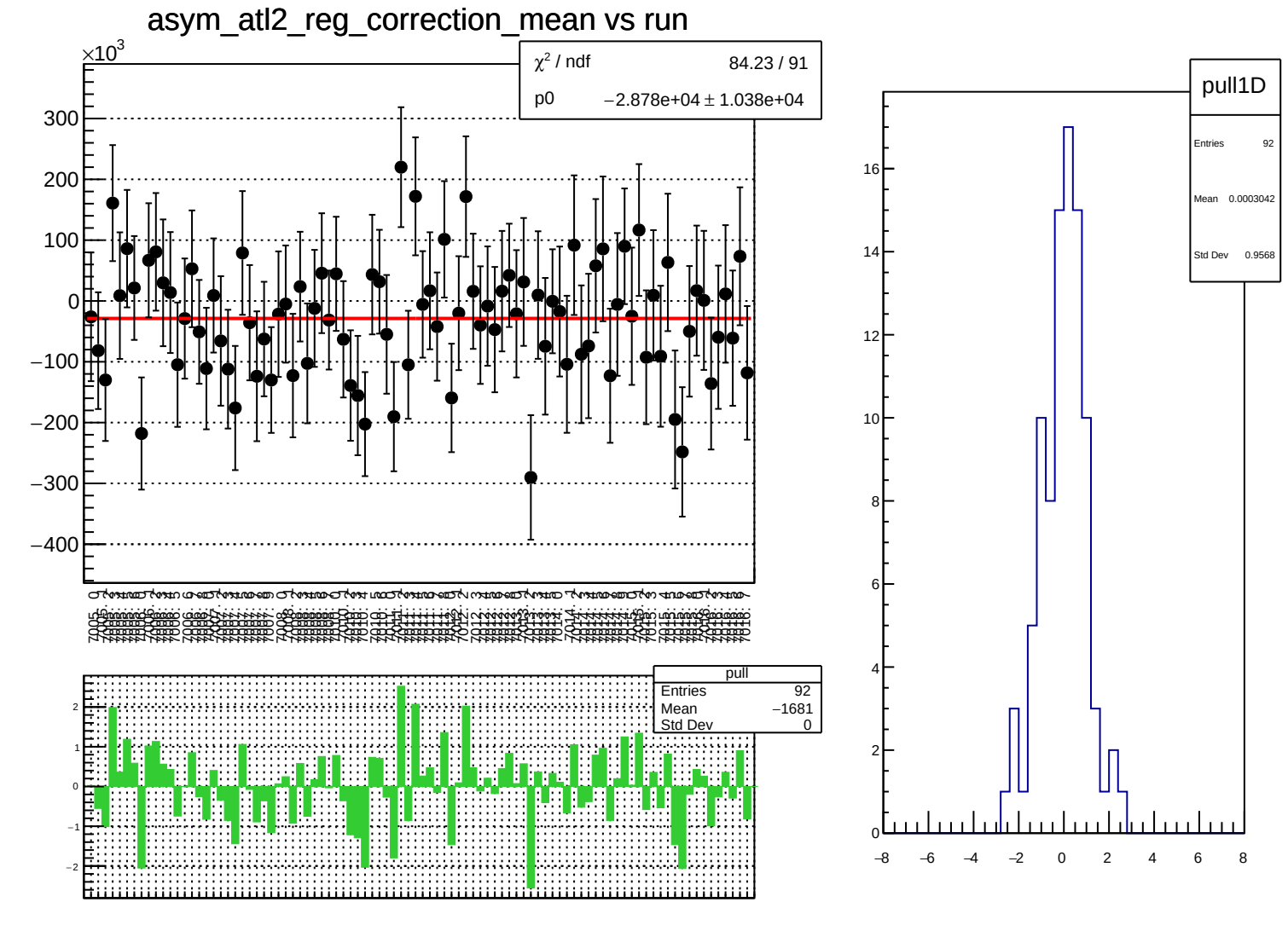
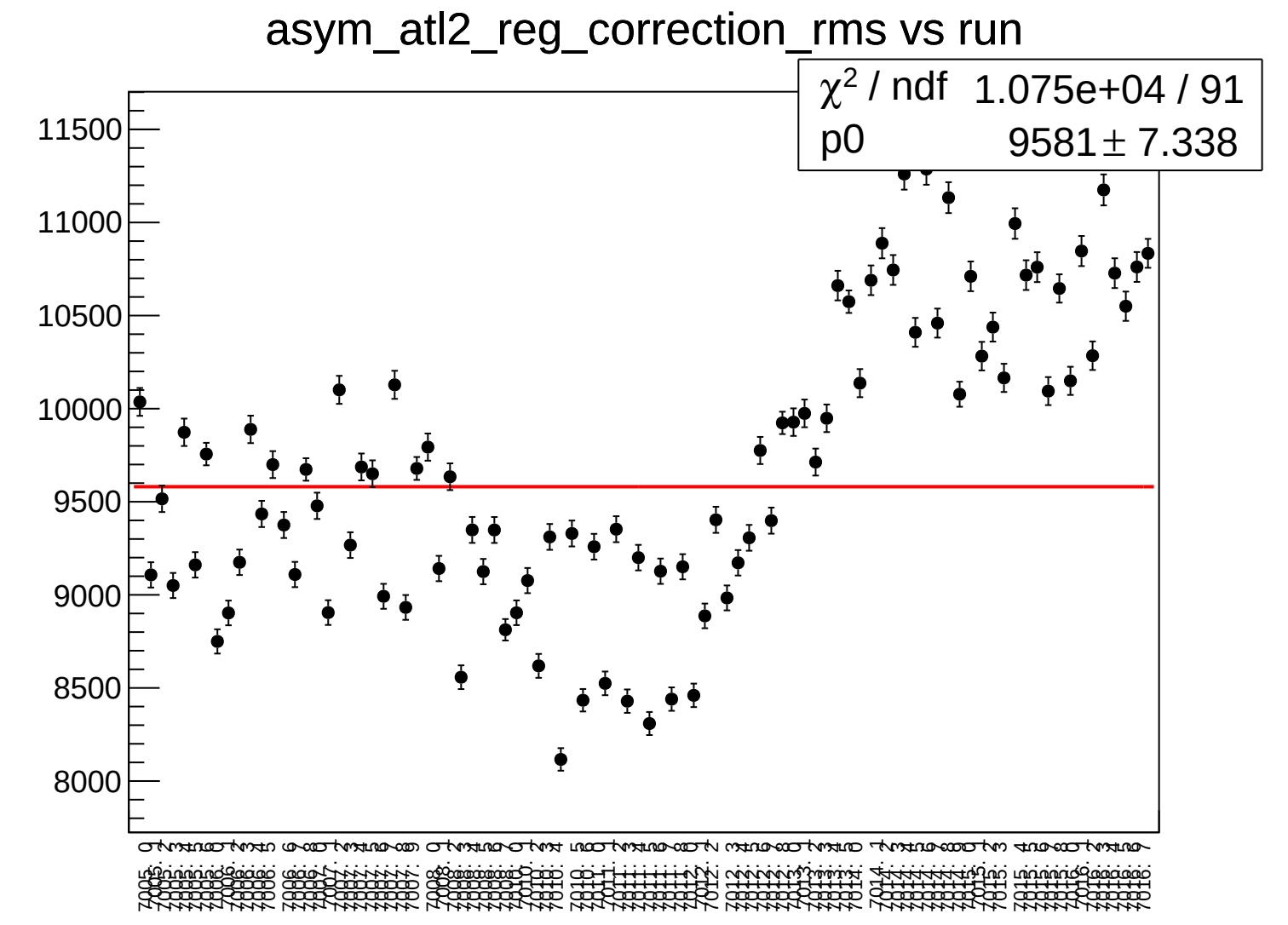
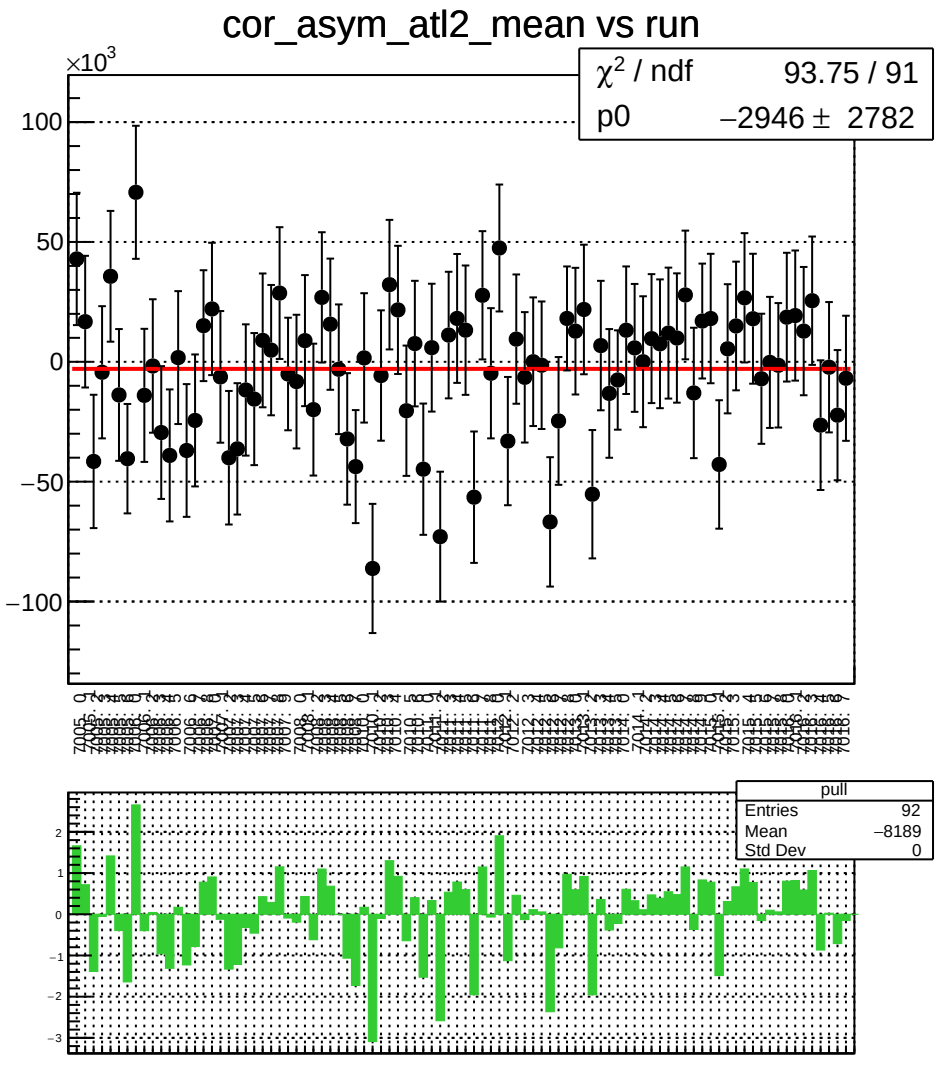
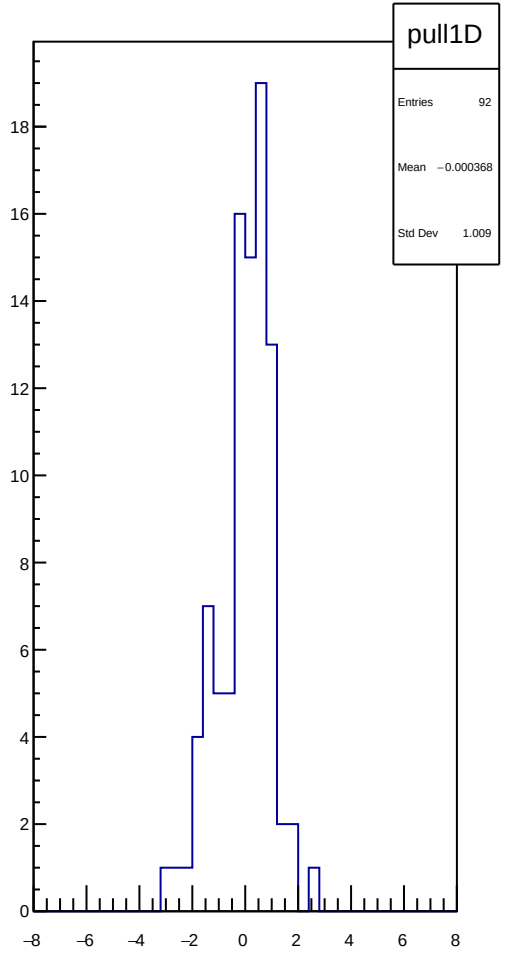
0
2
4
6
8

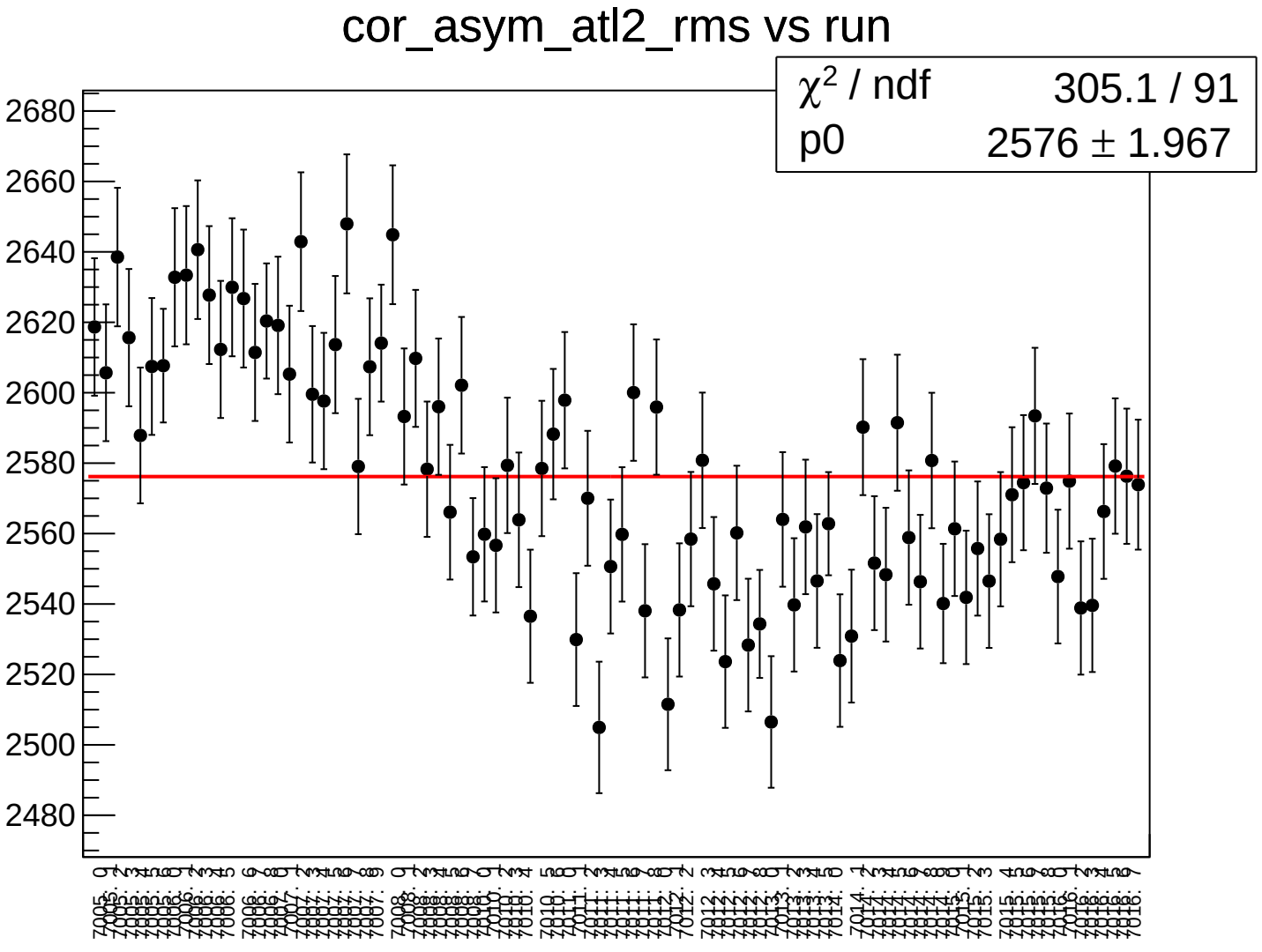

reg_asym_atl2_rms vs run
χ² / ndf 305.1 / 91
p0 2576 ± 1.967
2680
2660
2640
2620
2600
2580
2560
2540
2520
2500
2480

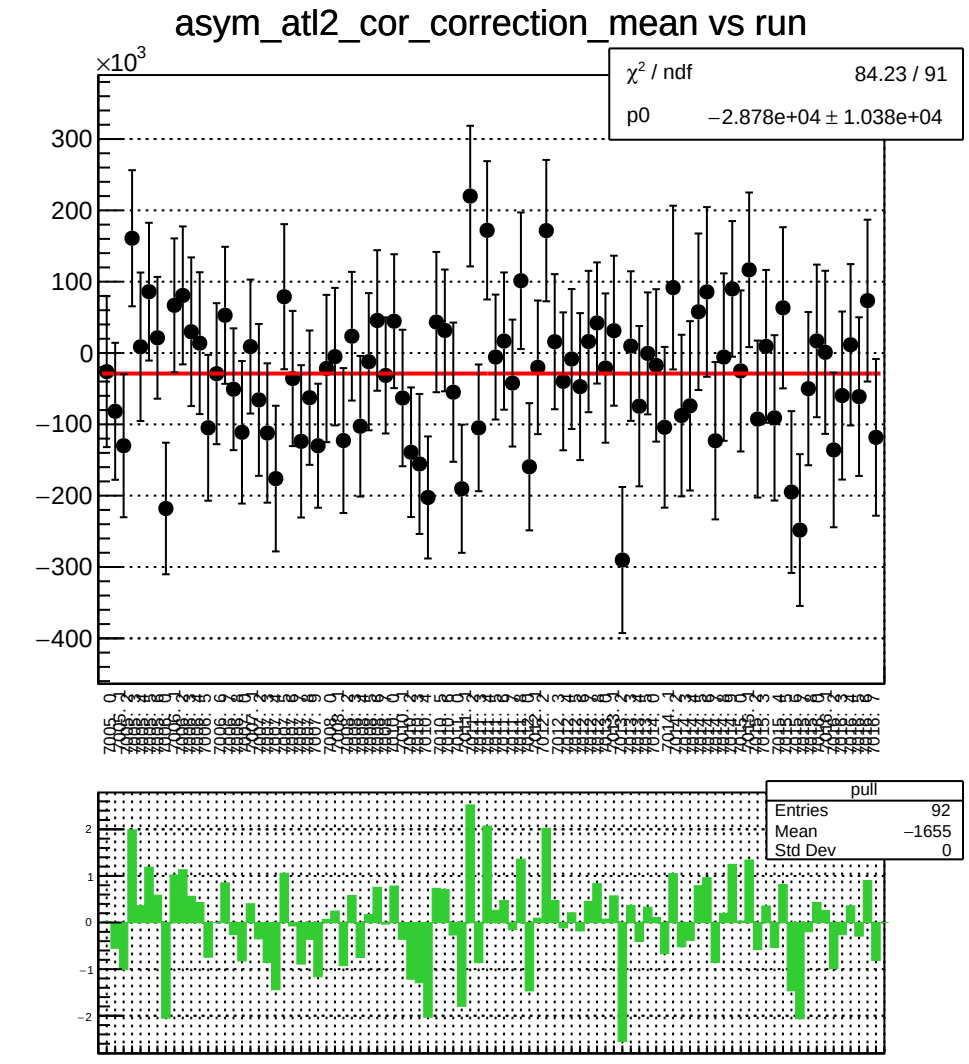

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 84.23 / 91
p0 −2.878e+04 ± 1.038e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −1681
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0003042
Std Dev 0.9568
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

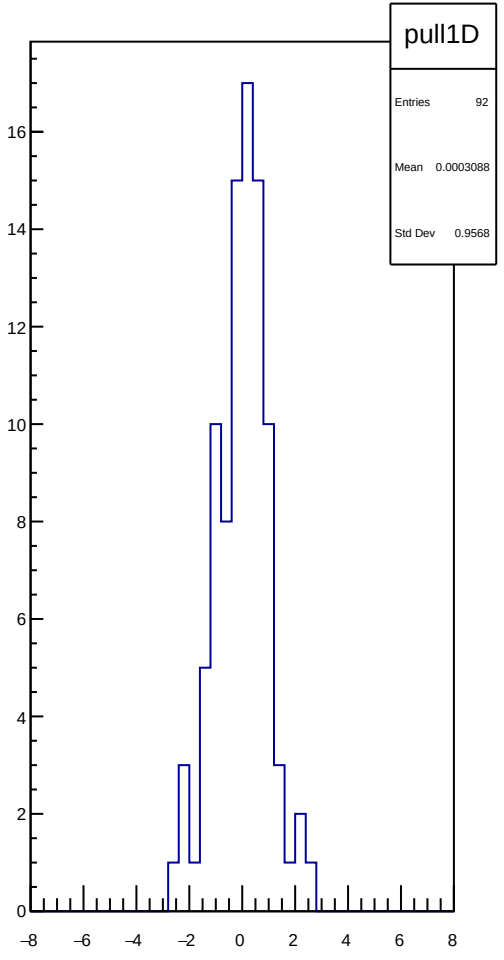

asym_atl2_reg_correction_rms vs run
χ² / ndf 1.075e+04 / 91
p0 9581 ± 7.338
11500
11000
10500
10000
9500
9000
8500
8000

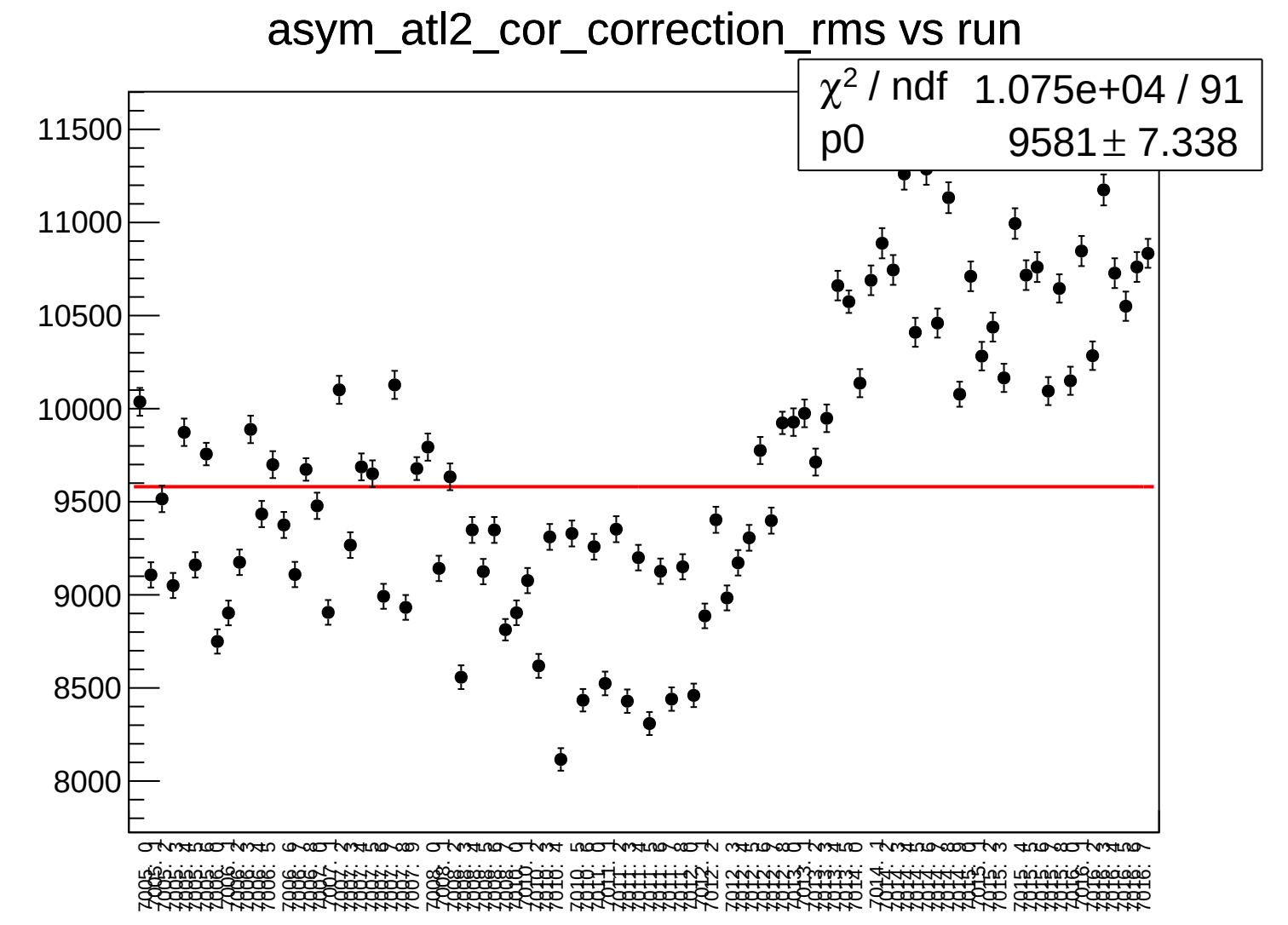

cor_asym_atl2_mean vs run
×10^3
χ² / ndf 93.75 / 91
p0 −2946 ± 2782
100
50
0
−50
−100
pull
Entries 92
Mean −8189
Std Dev 0
2
1
0
−1
−2
−3

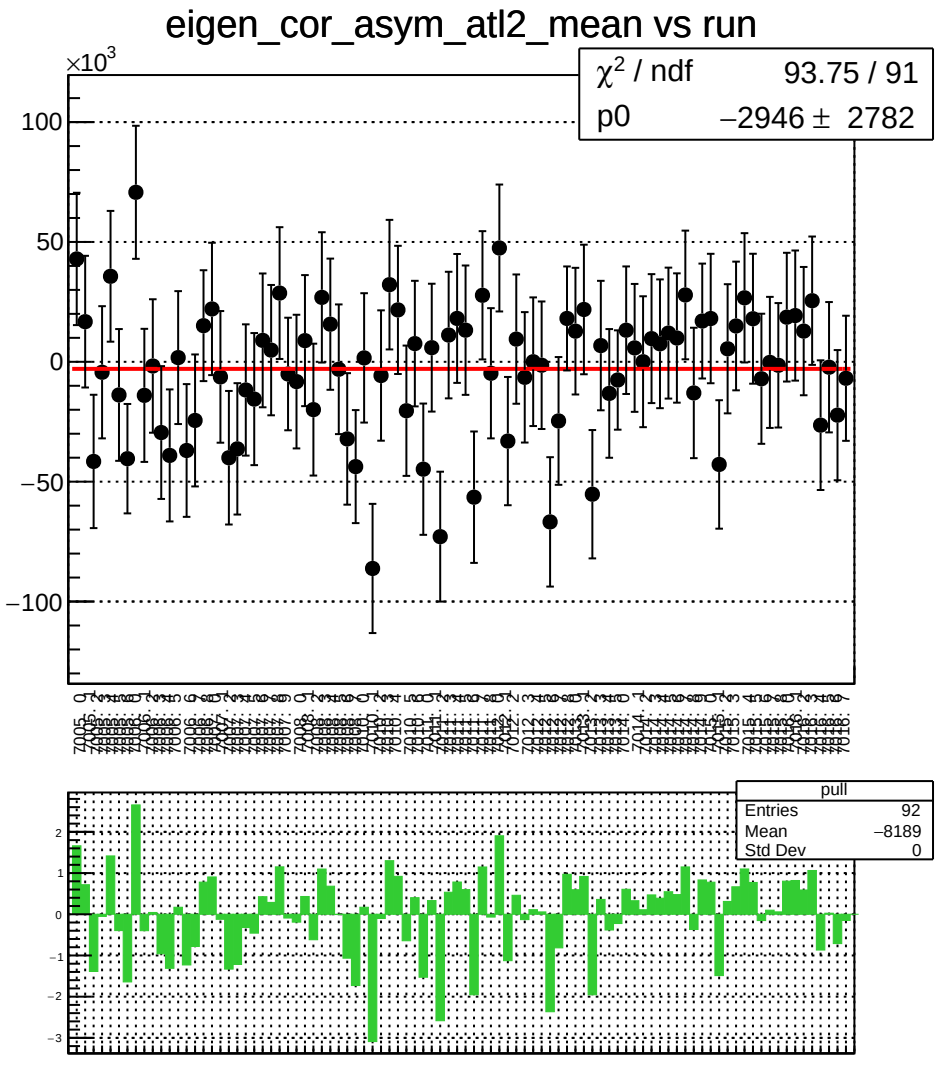

pull1D
Entries 92
Mean −0.000368
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

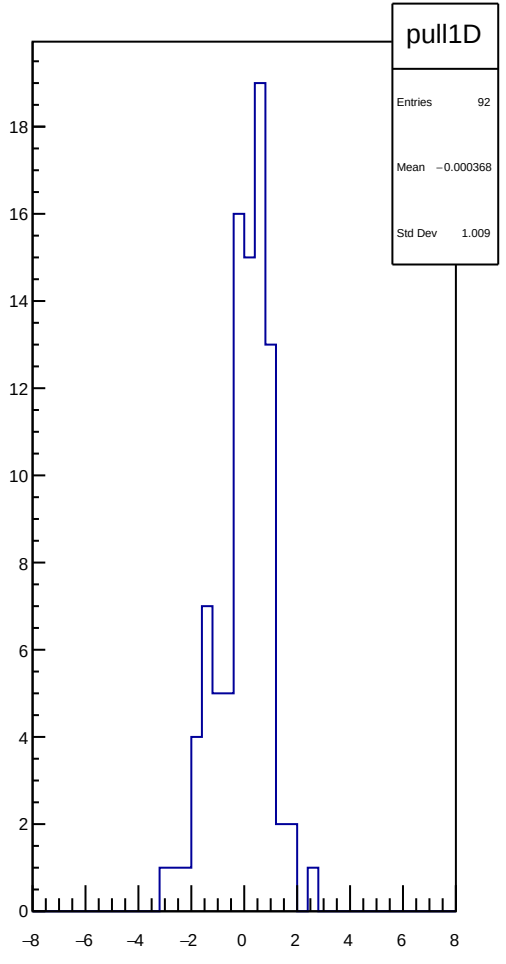

cor_asym_atl2_rms vs run
χ² / ndf 305.1 / 91
p0 2576 ± 1.967
2680
2660
2640
2620
2600
2580
2560
2540
2520
2500
2480

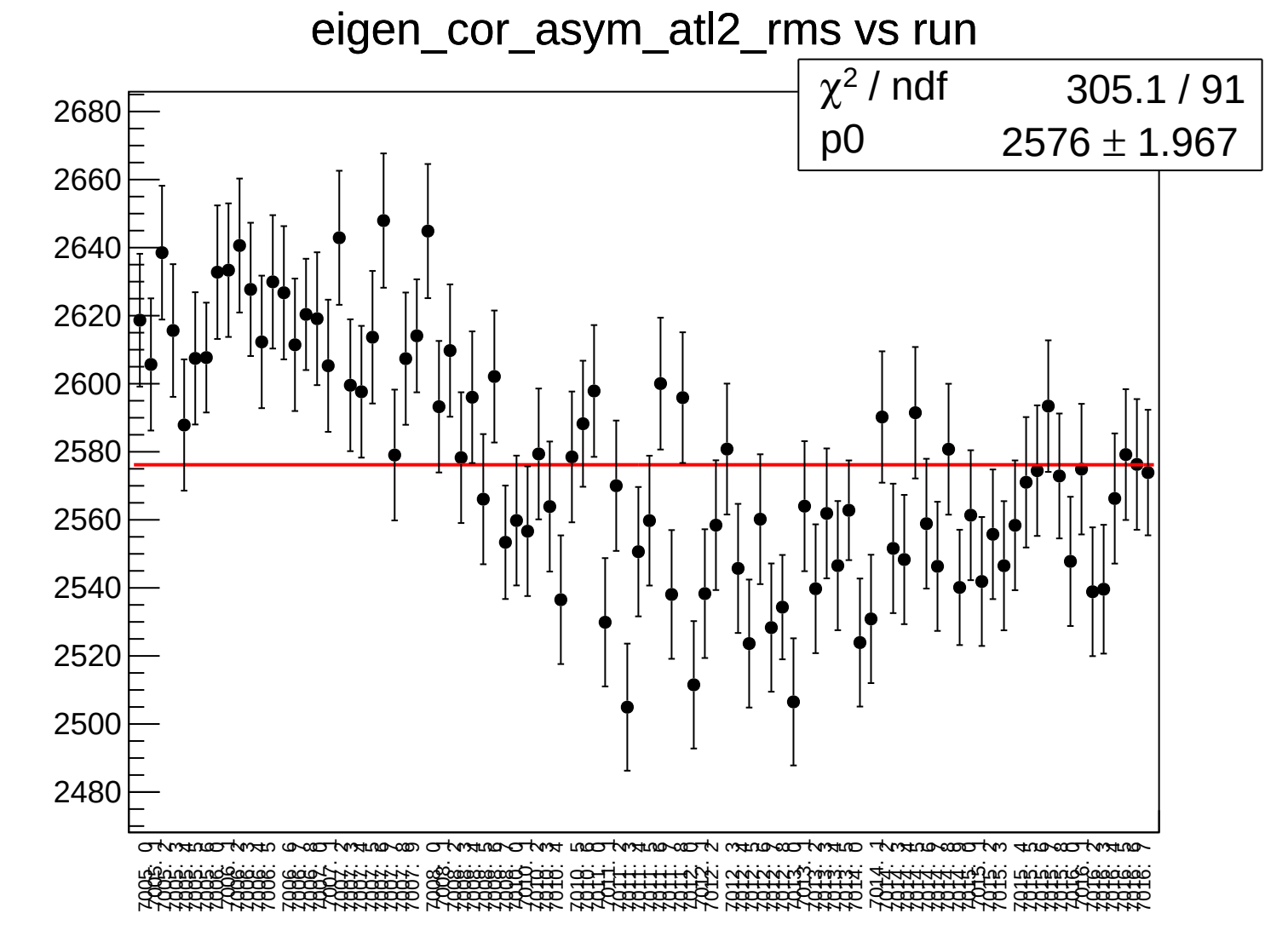

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 84.23 / 91
p0 −2.878e+04 ± 1.038e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −1655
Std Dev 0
2
1
0
−1
−2

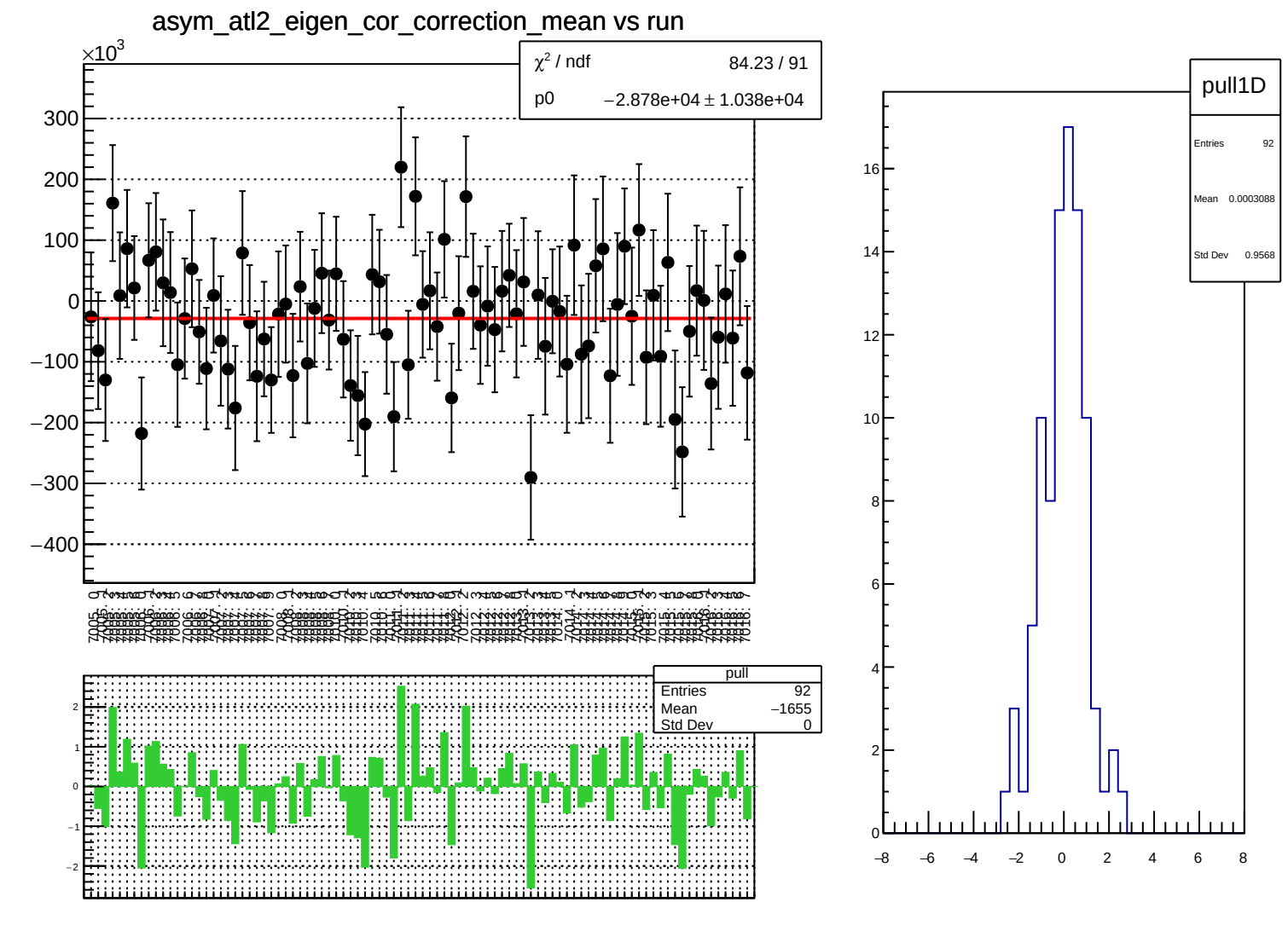

pull1D
Entries 92
Mean 0.0003088
Std Dev 0.9568
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

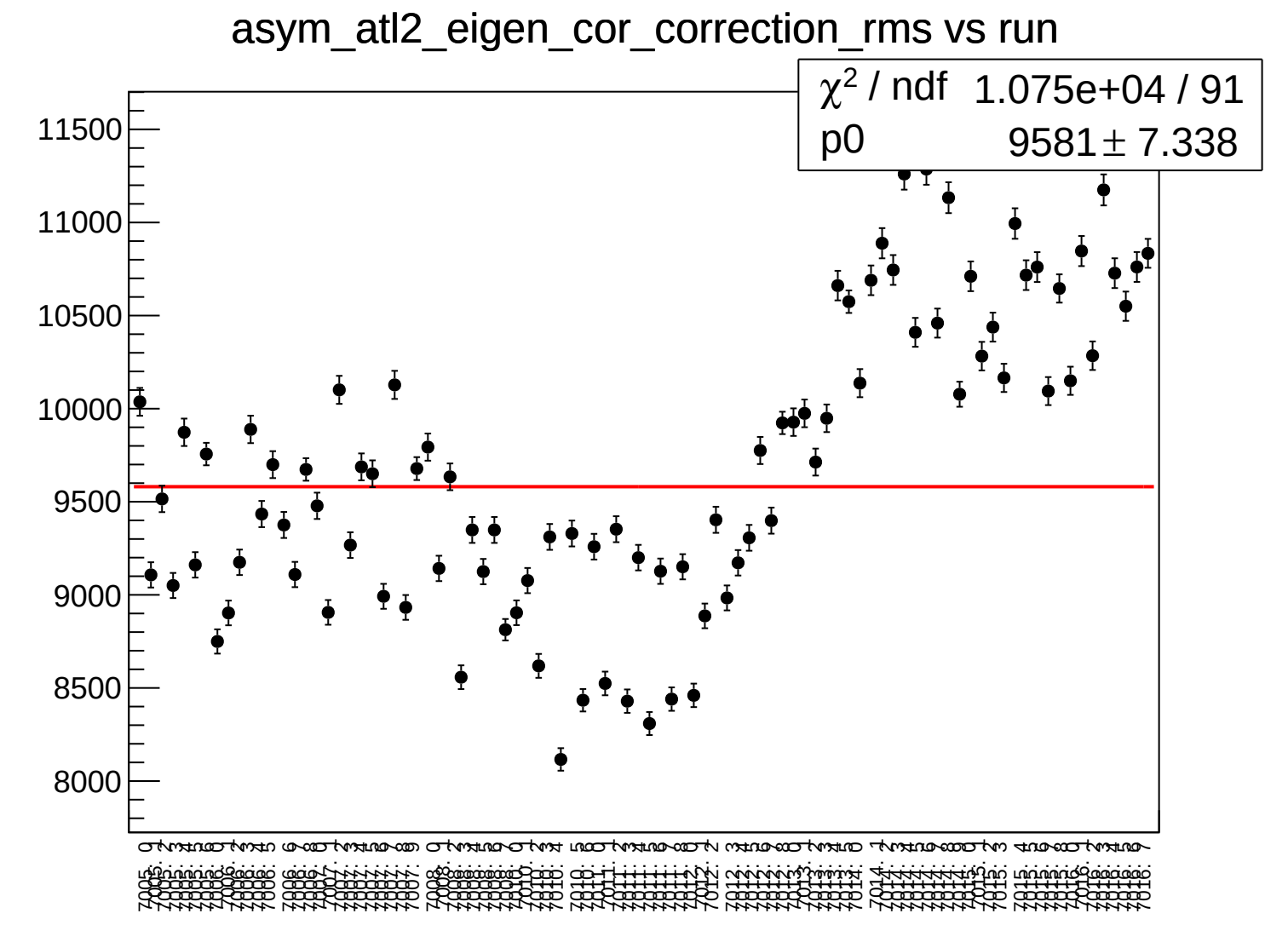

asym_atl2_cor_correction_rms vs run
χ² / ndf 1.075e+04 / 91
p0 9581 ± 7.338
11500
11000
10500
10000
9500
9000
8500
8000

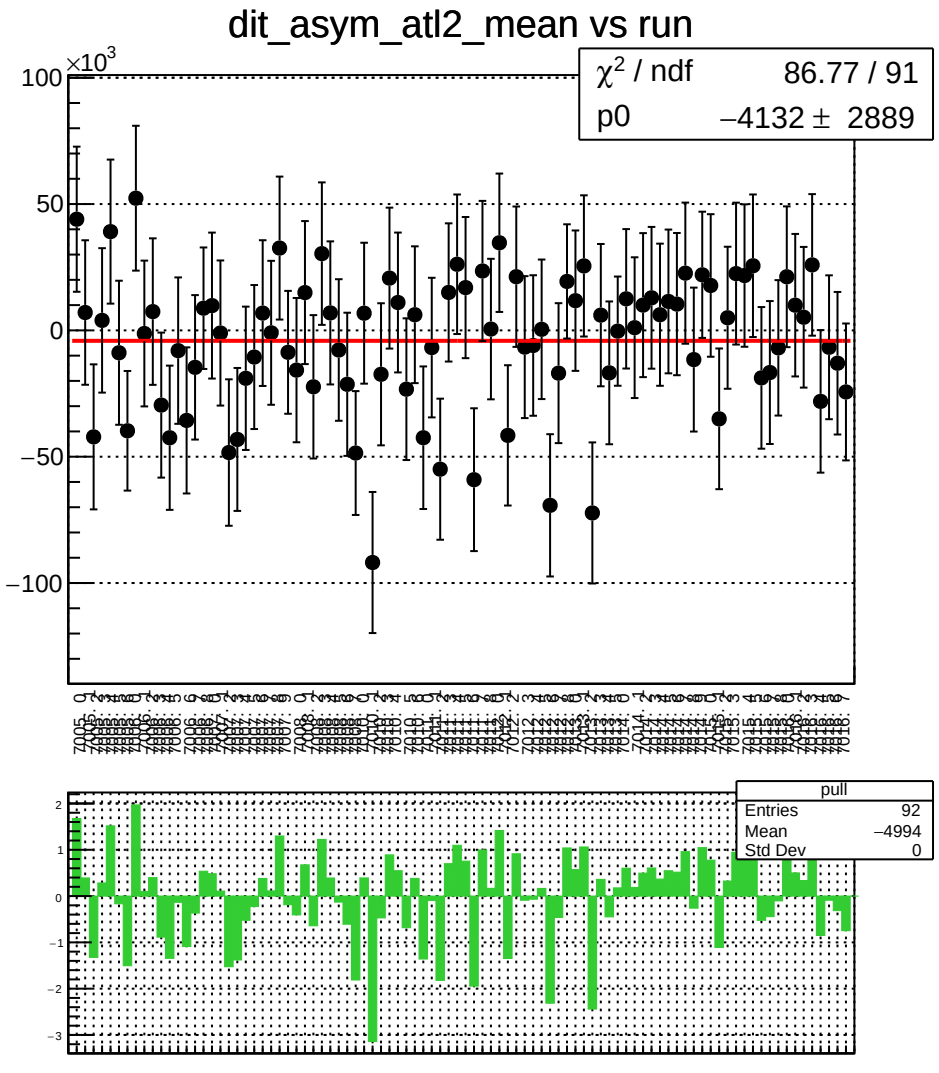

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 93.75 / 91
p0 −2946 ± 2782
100
50
0
−50
−100
pull
Entries 92
Mean −8189
Std Dev 0
2
1
0
−1
−2
−3

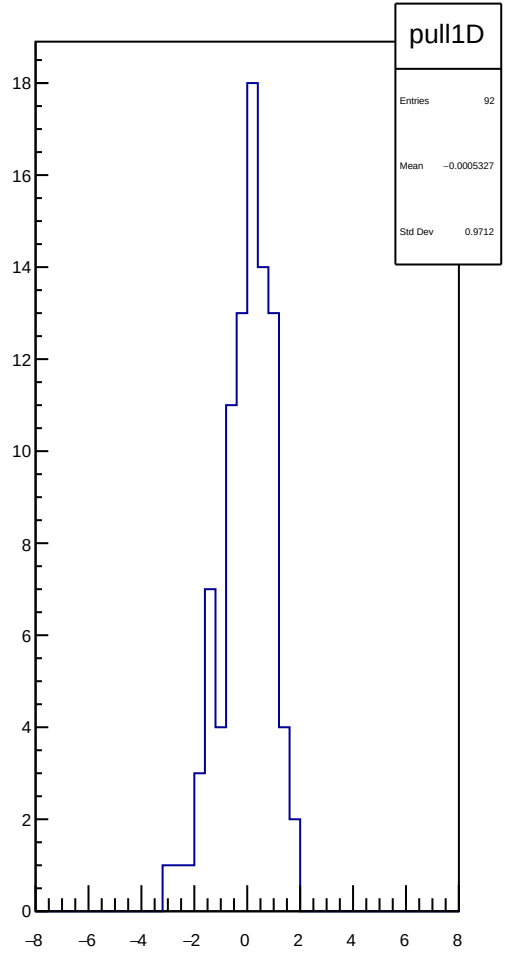

pull1D
Entries 92
Mean −0.000368
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

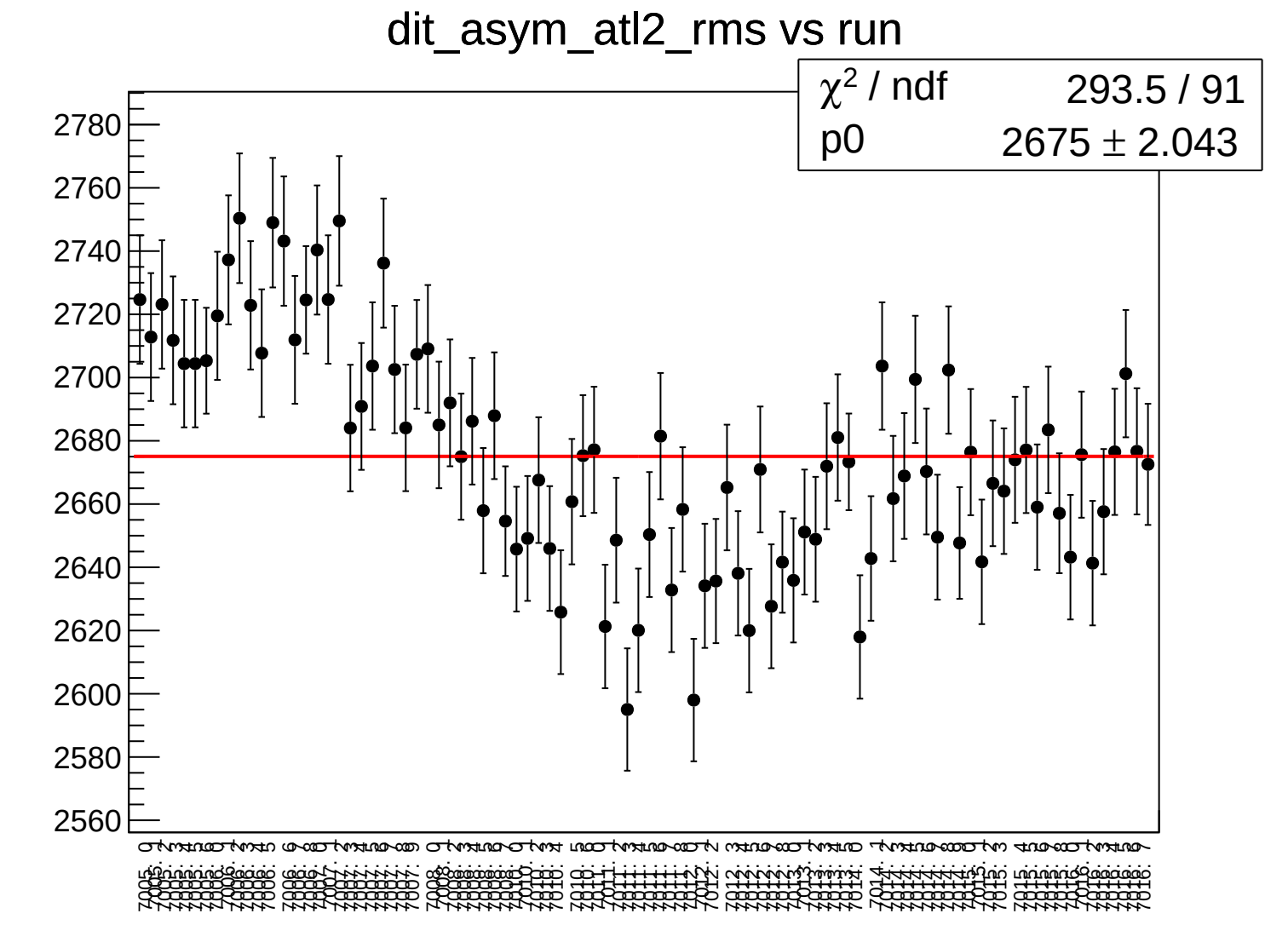

eigen_cor_asym_atl2_rms vs run
χ² / ndf 305.1 / 91
p0 2576 ± 1.967
2680
2660
2640
2620
2600
2580
2560
2540
2520
2500
2480

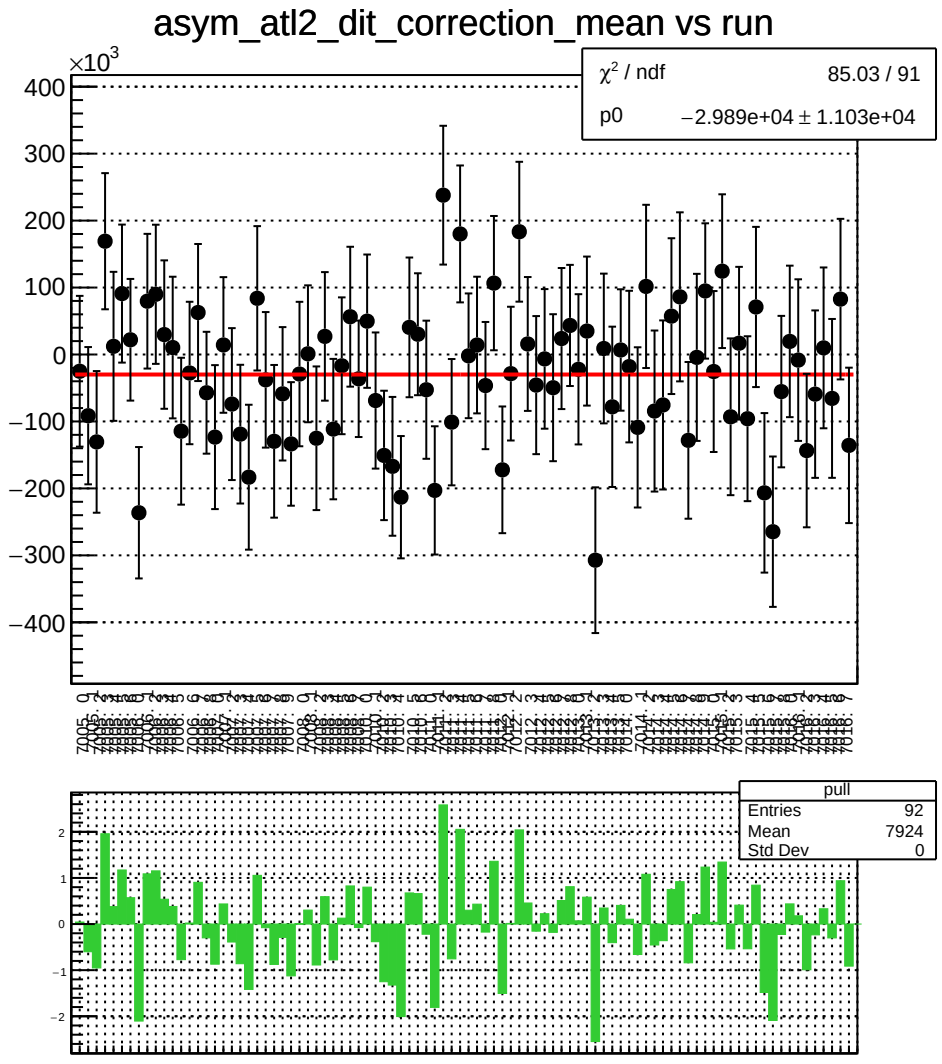

asym_atl2_eigen_cor_correction_mean vs run
χ² / ndf 84.23 / 91
p0 −2.878e+04 ± 1.038e+04
×10³
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean −1655
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0003088
Std Dev 0.9568
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

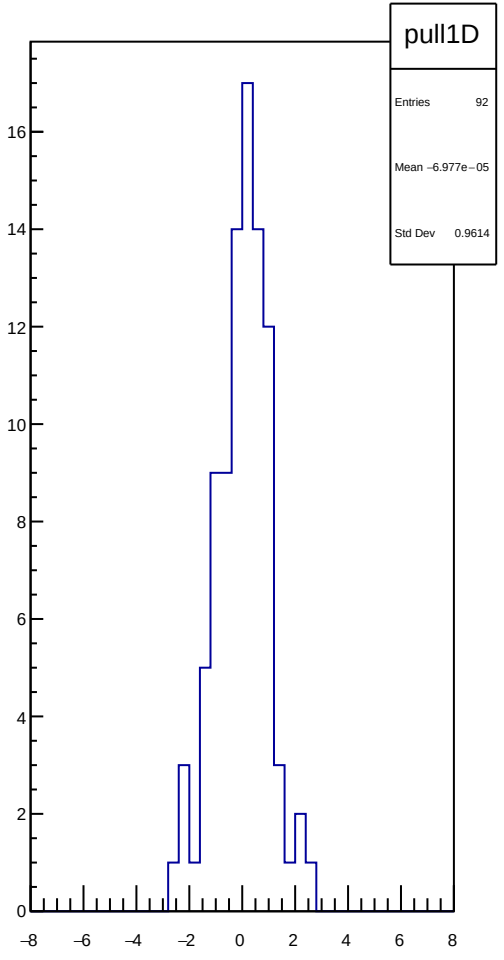

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 1.075e+04 / 91
p0 9581 ± 7.338
11500
11000
10500
10000
9500
9000
8500
8000

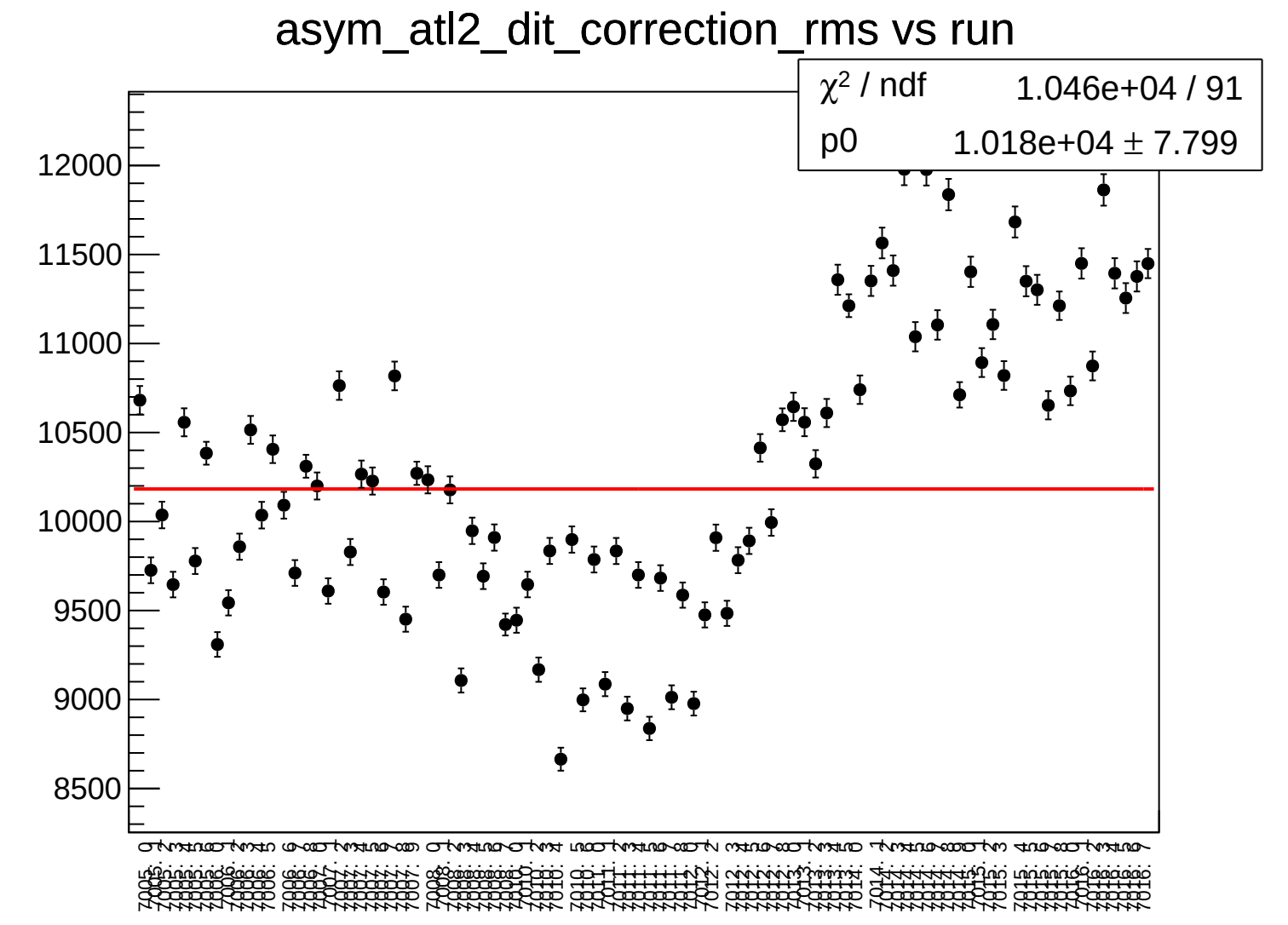

dit_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 86.77 / 91
p0 −4132 ± 2889
pull
Entries 92
Mean −4994
Std Dev 0
2
1
0
−1
−2
−3

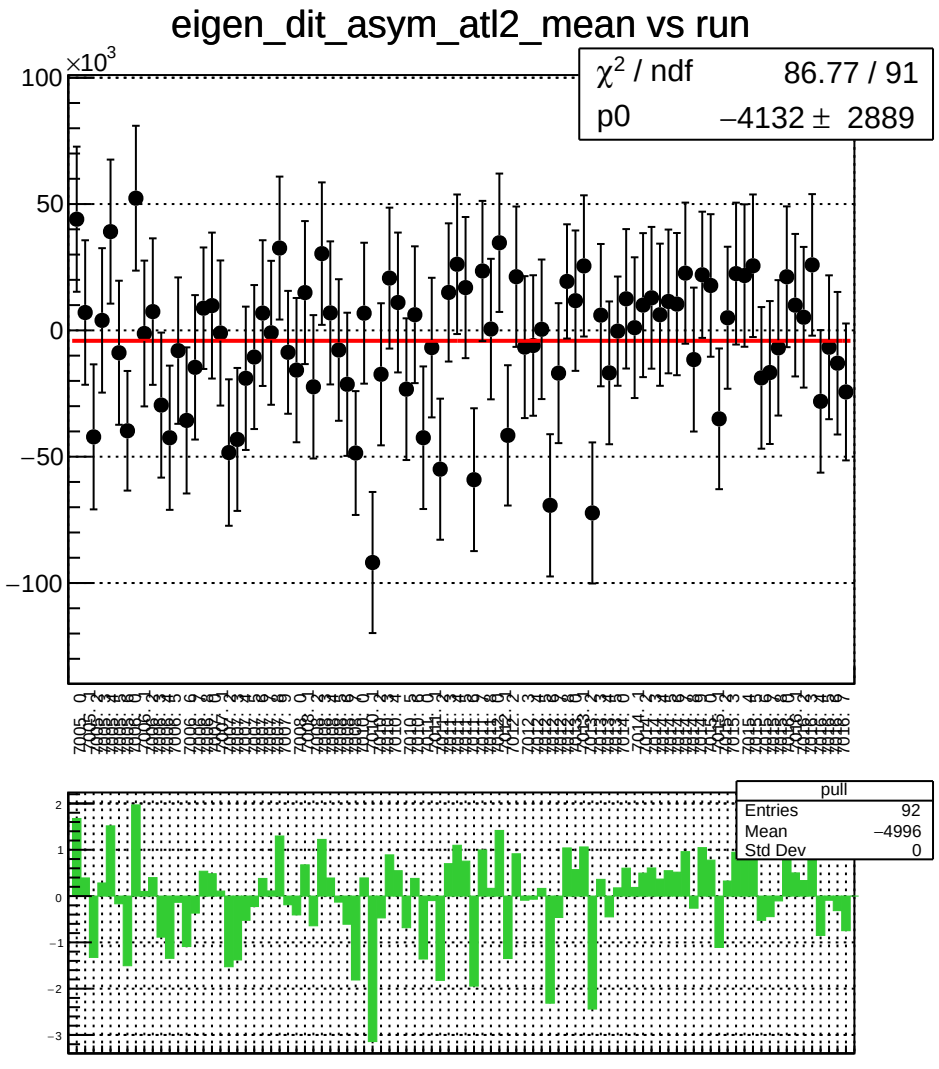

pull1D
Entries 92
Mean −0.0005327
Std Dev 0.9712
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

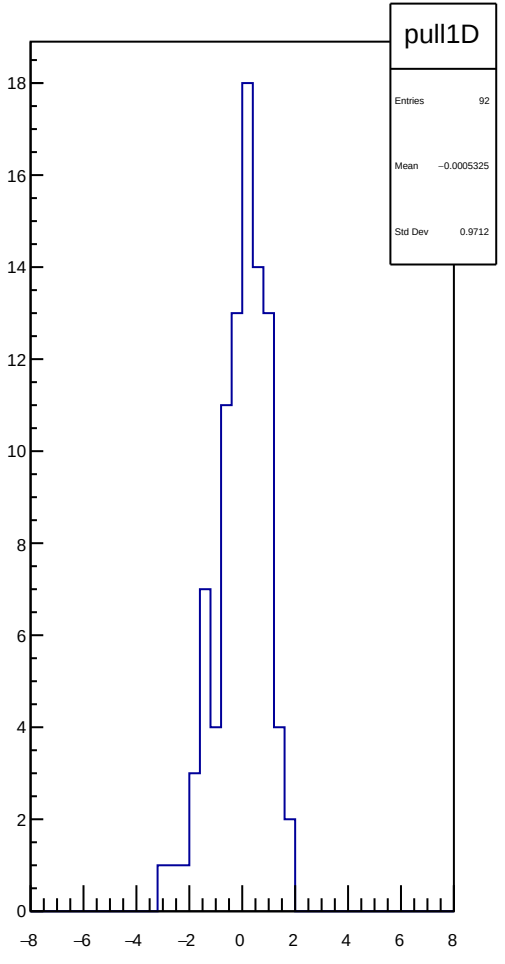

dit_asym_atl2_rms vs run
χ² / ndf 293.5 / 91
p0 2675 ± 2.043
2780
2760
2740
2720
2700
2680
2660
2640
2620
2600
2580
2560

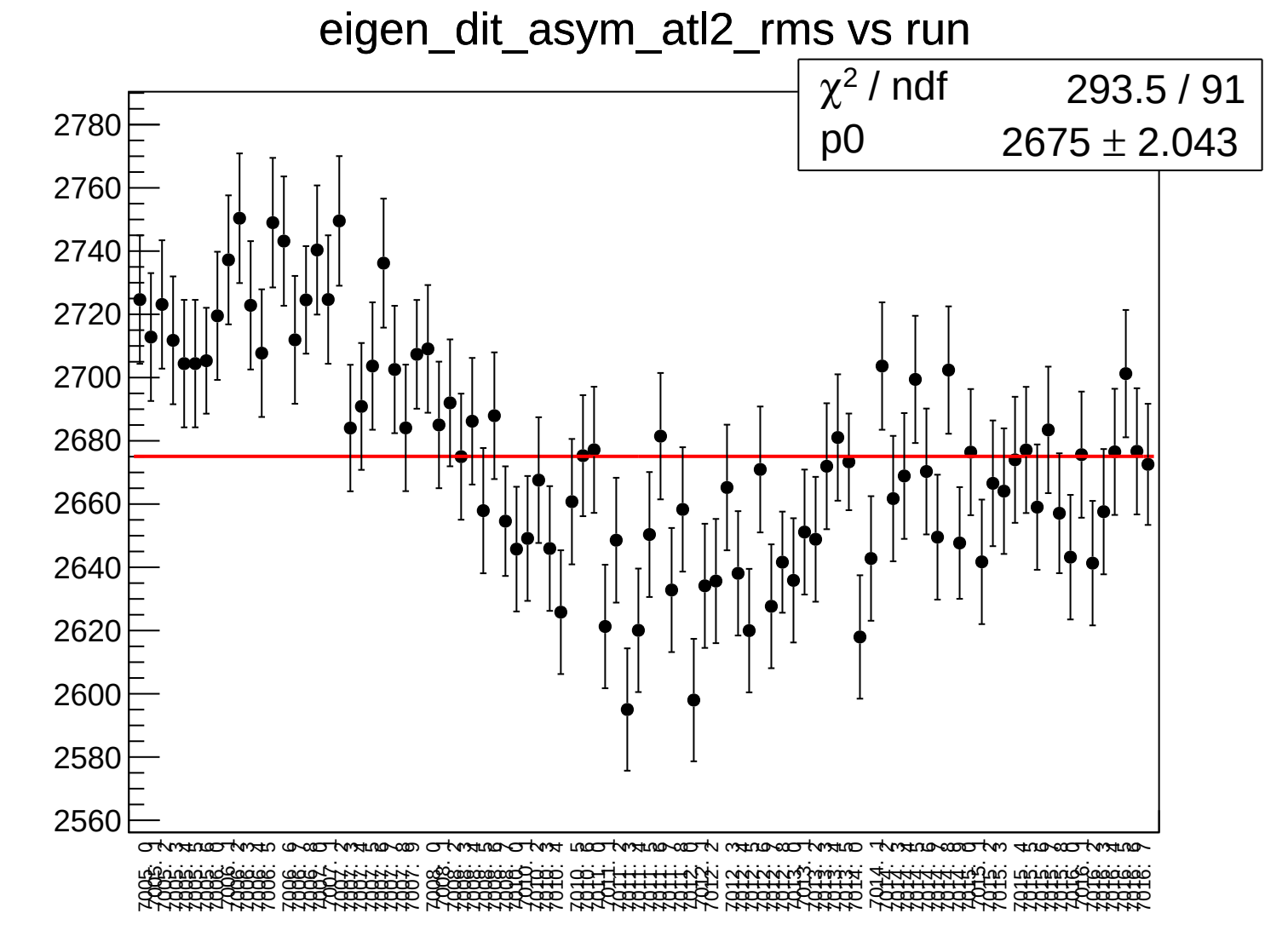

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 85.03 / 91
p0 −2.989e+04 ± 1.103e+04
pull
Entries 92
Mean 7924
Std Dev 0

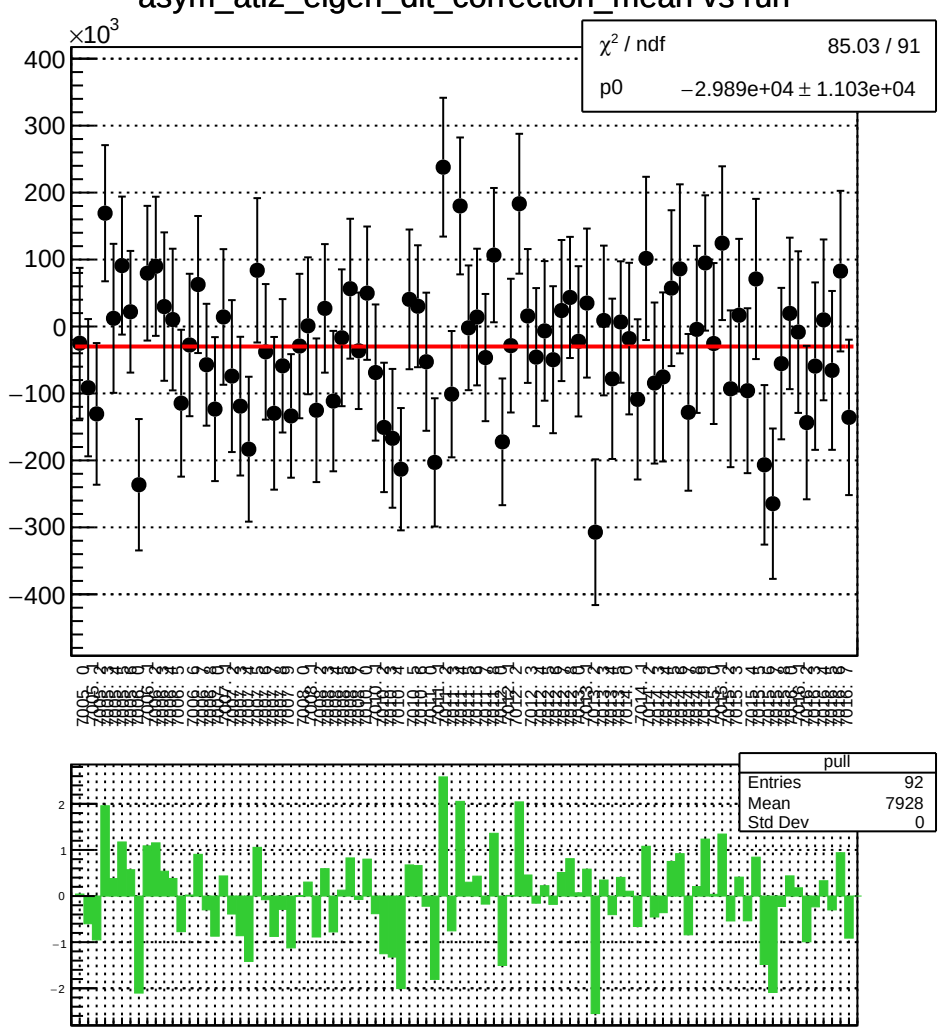

pull1D
Entries 92
Mean −6.977e−05
Std Dev 0.9614

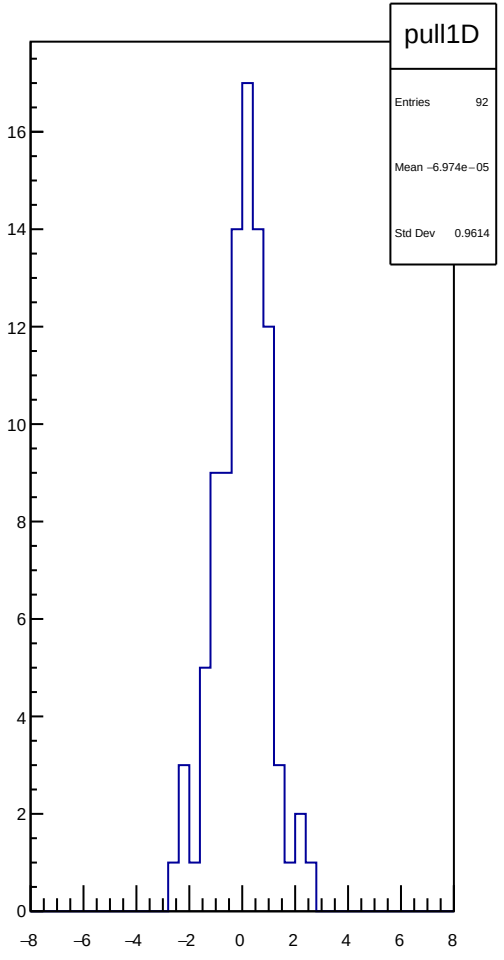

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.046e+04 / 91
p0 1.018e+04 ± 7.799
12000
11500
11000
10500
10000
9500
9000
8500

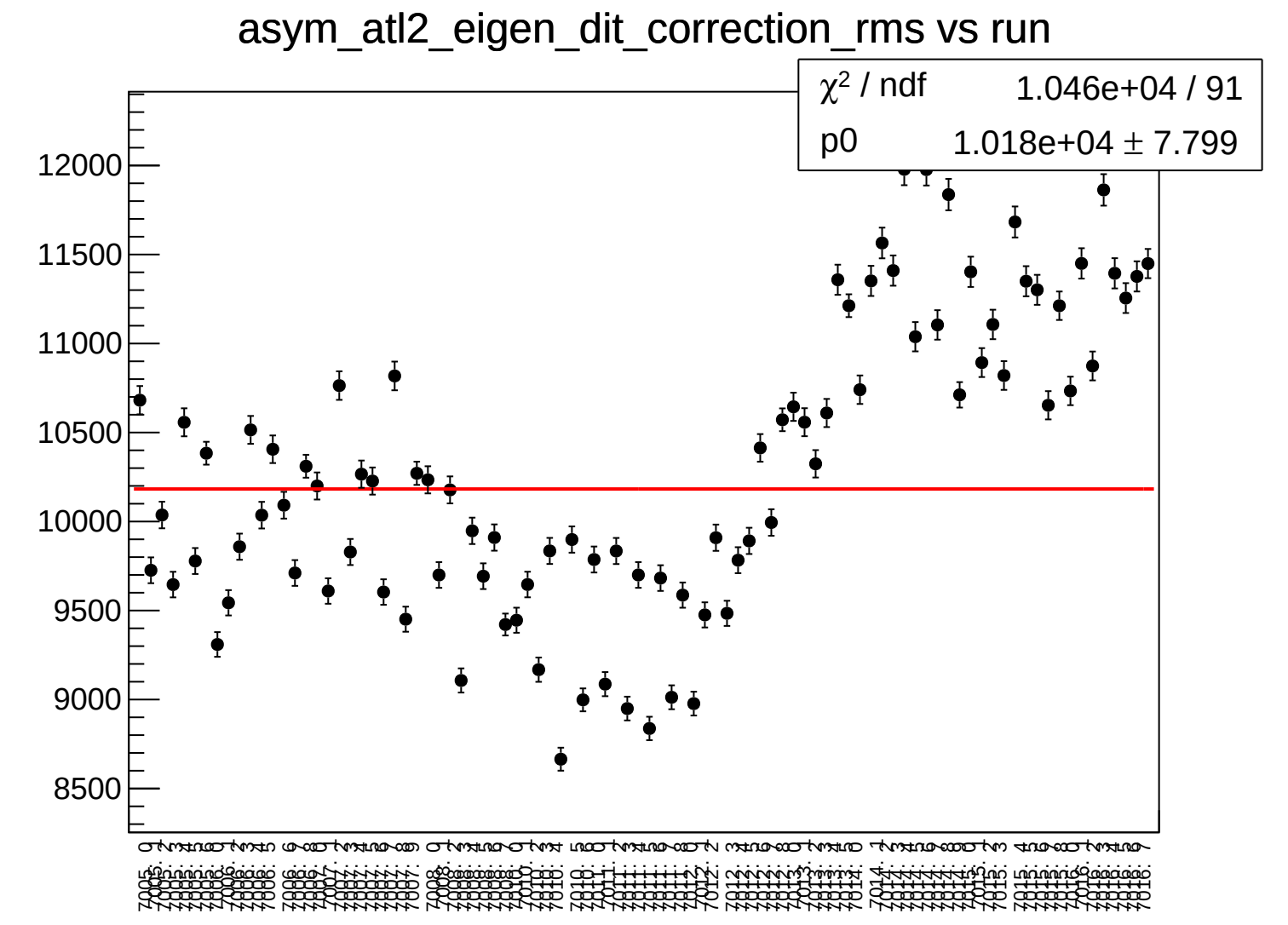

eigen_dit_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 86.77 / 91
p0 −4132 ± 2889
pull
Entries 92
Mean −4996
Std Dev 0
2
1
0
−1
−2
−3

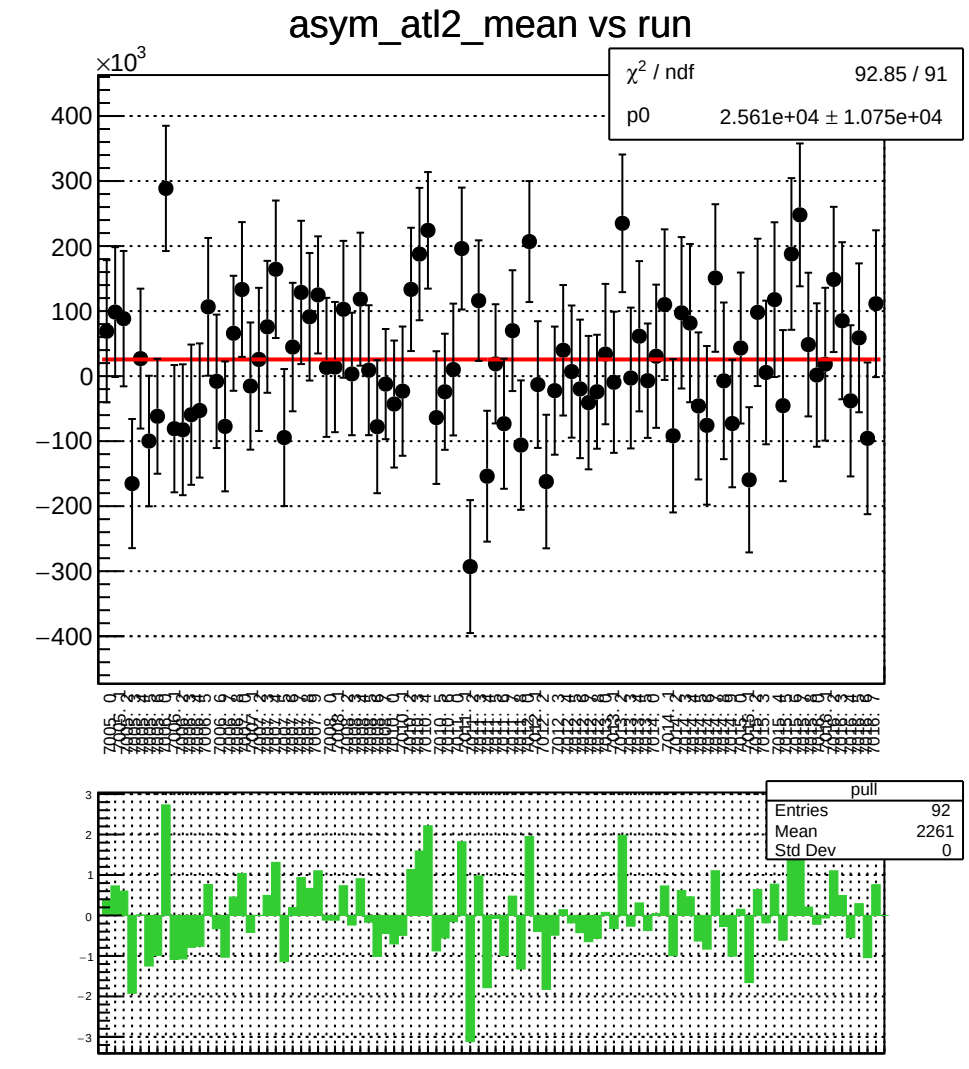

pull1D
Entries 92
Mean −0.0005325
Std Dev 0.9712
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

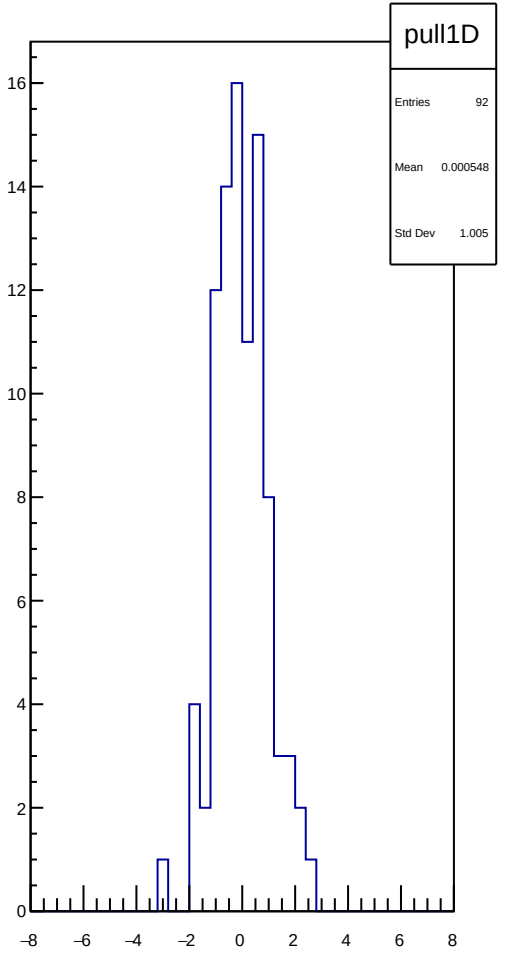

eigen_dit_asym_atl2_rms vs run
$\chi^2$ / ndf 293.5 / 91
p0 2675 ± 2.043
2780
2760
2740
2720
2700
2680
2660
2640
2620
2600
2580
2560

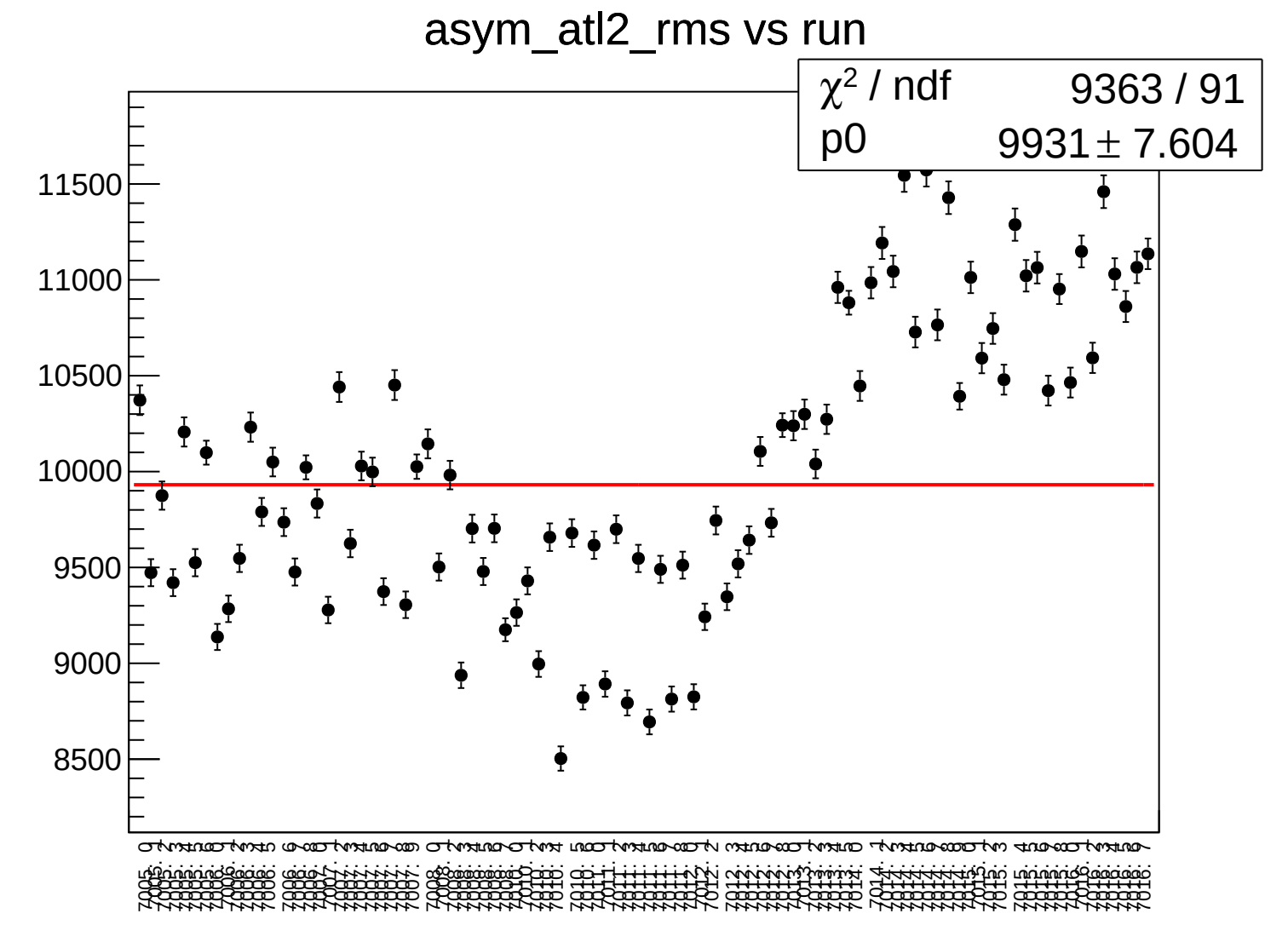

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.03 / 91
p0 −2.989e+04 ± 1.103e+04
pull
Entries 92
Mean 7928
Std Dev 0

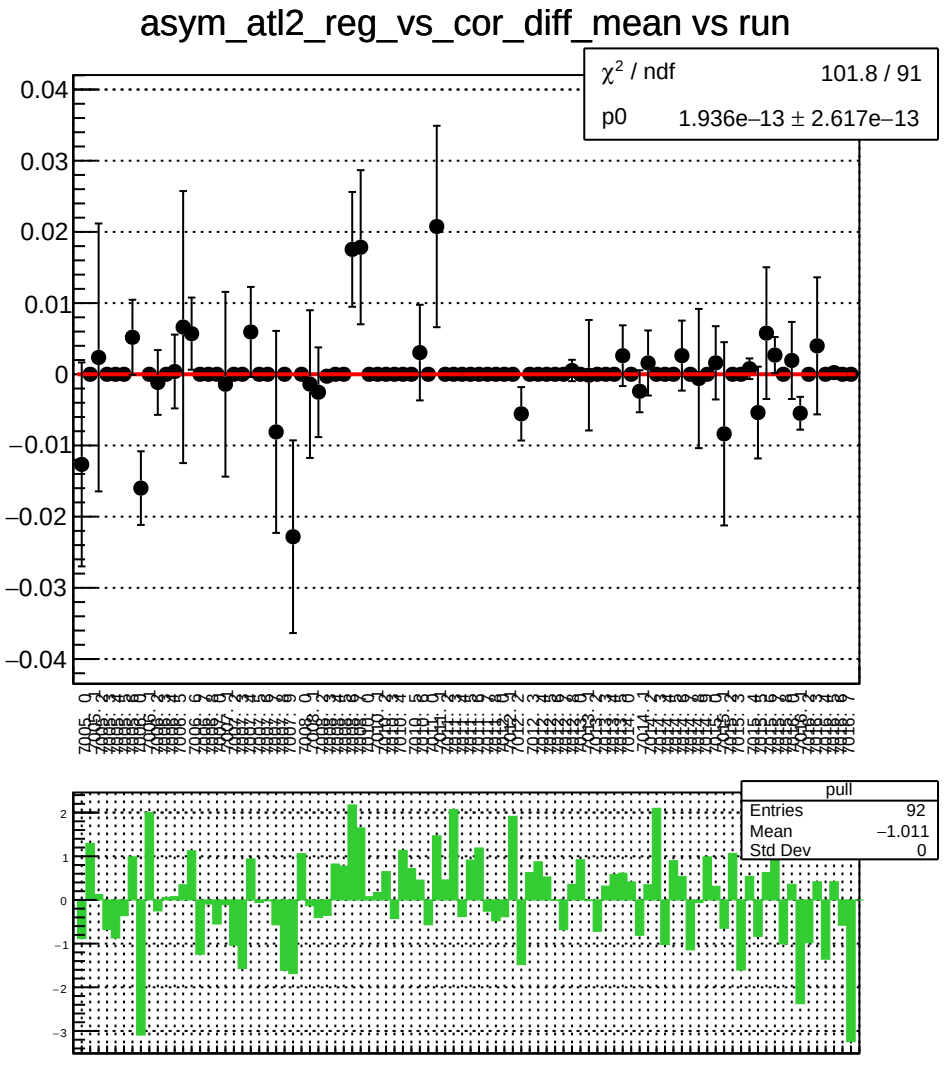

pull1D
Entries 92
Mean −6.974e−05
Std Dev 0.9614

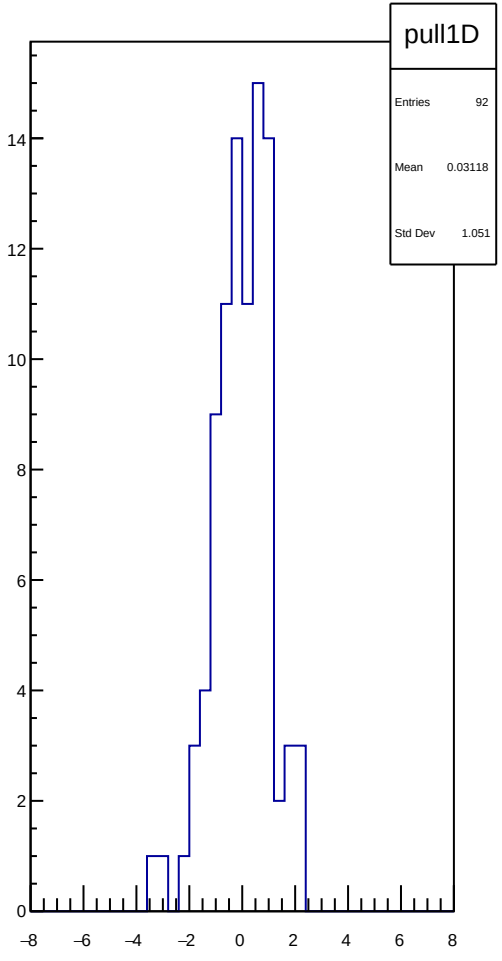

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.046e+04 / 91
p0 1.018e+04 ± 7.799
12000
11500
11000
10500
10000
9500
9000
8500

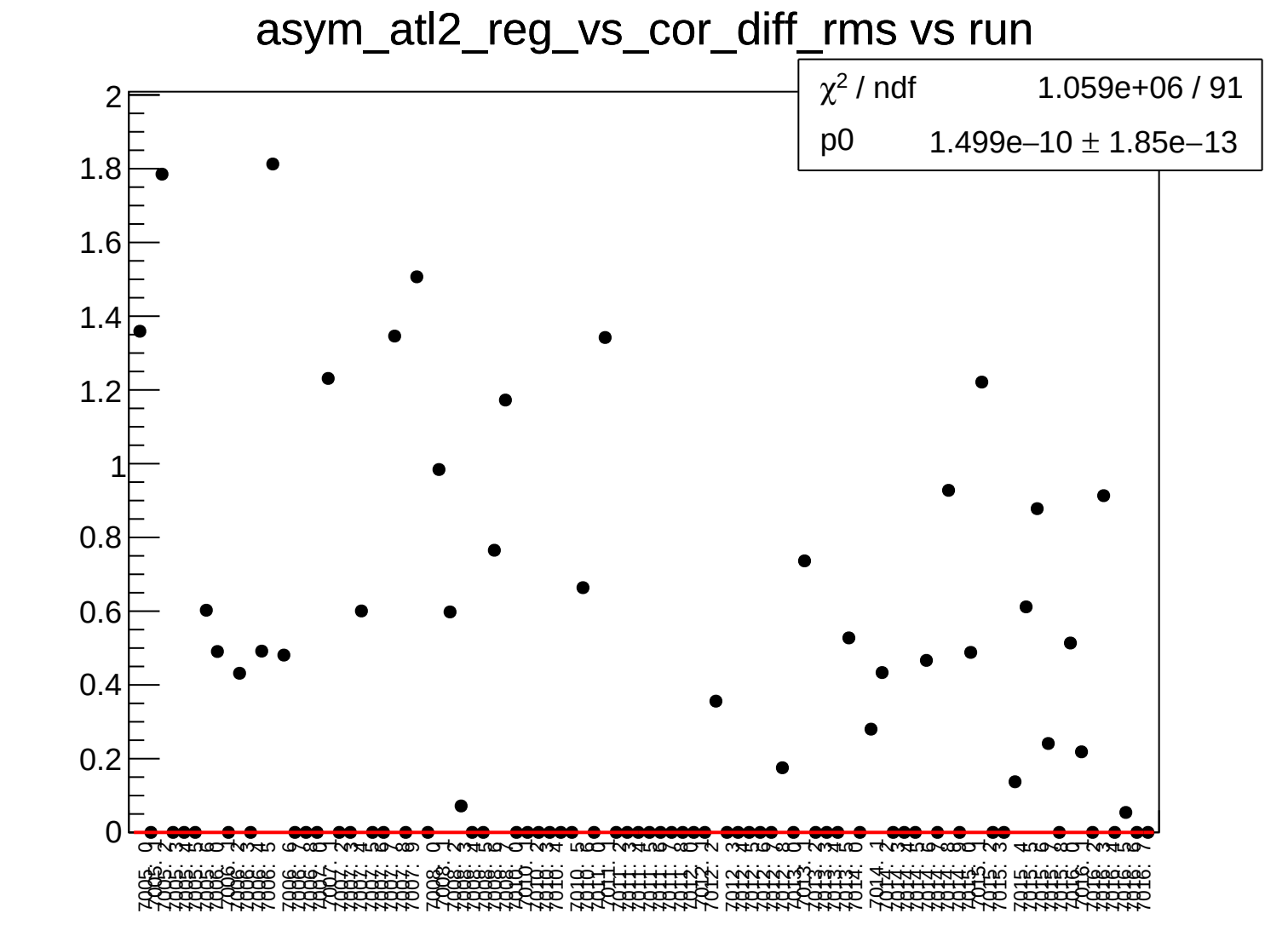

asym_atl2_mean vs run
×10^3
χ² / ndf 92.85 / 91
p0 2.561e+04 ± 1.075e+04
pull
Entries 92
Mean 2261
Std Dev 0

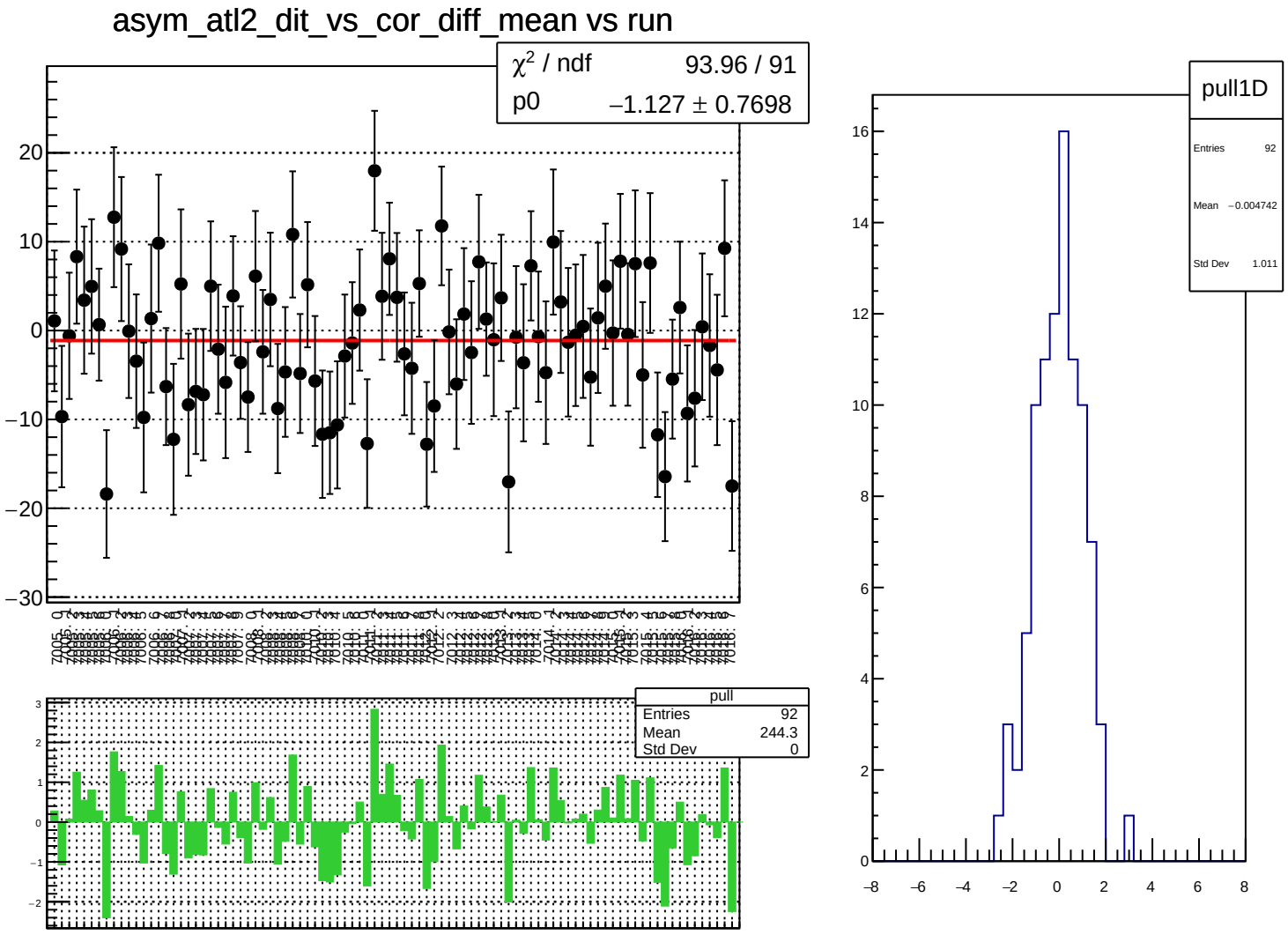

pull1D
Entries 92
Mean 0.000548
Std Dev 1.005

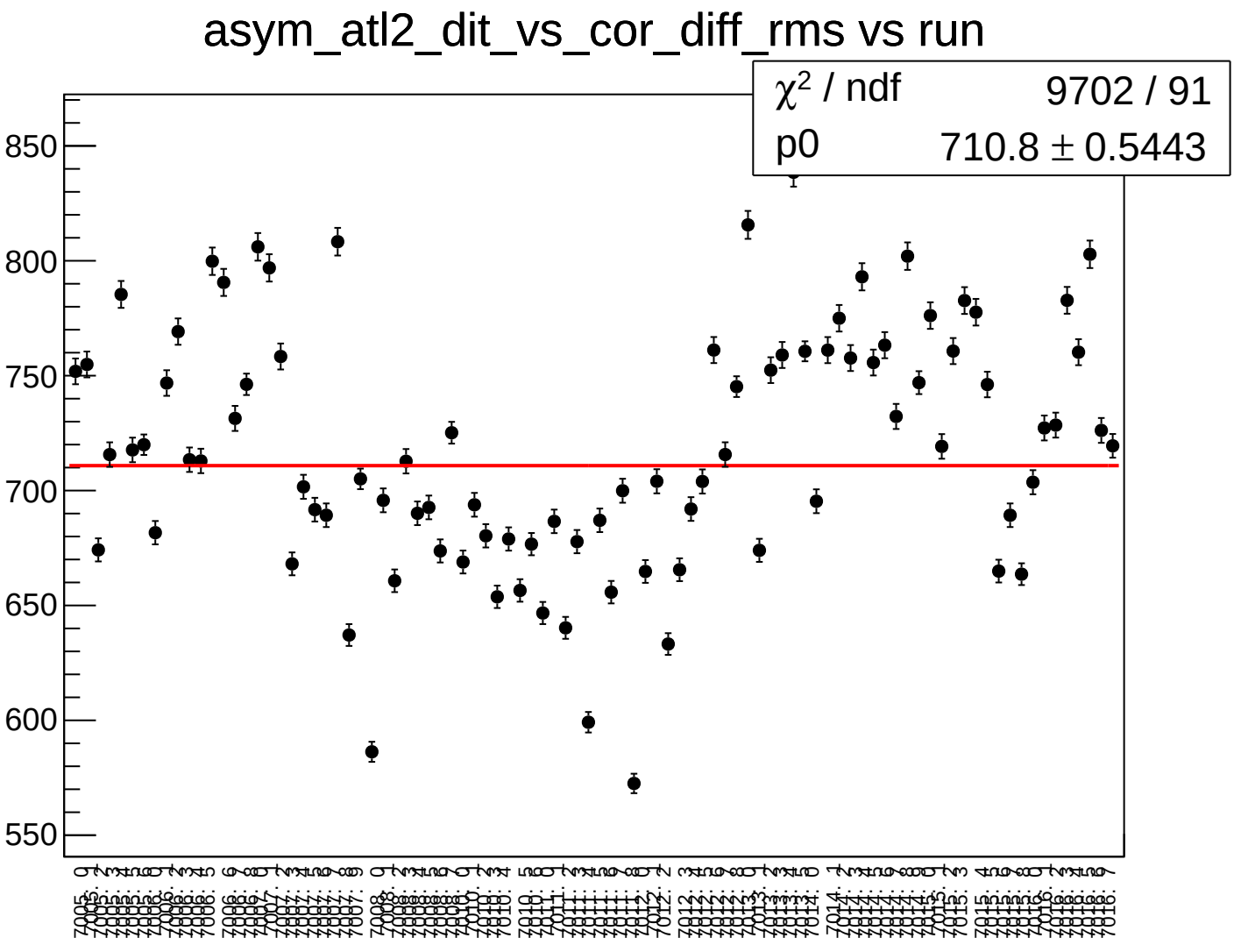

asym_atl2_rms vs run
χ² / ndf 9363 / 91
p0 9931 ± 7.604
11500
11000
10500
10000
9500
9000
8500

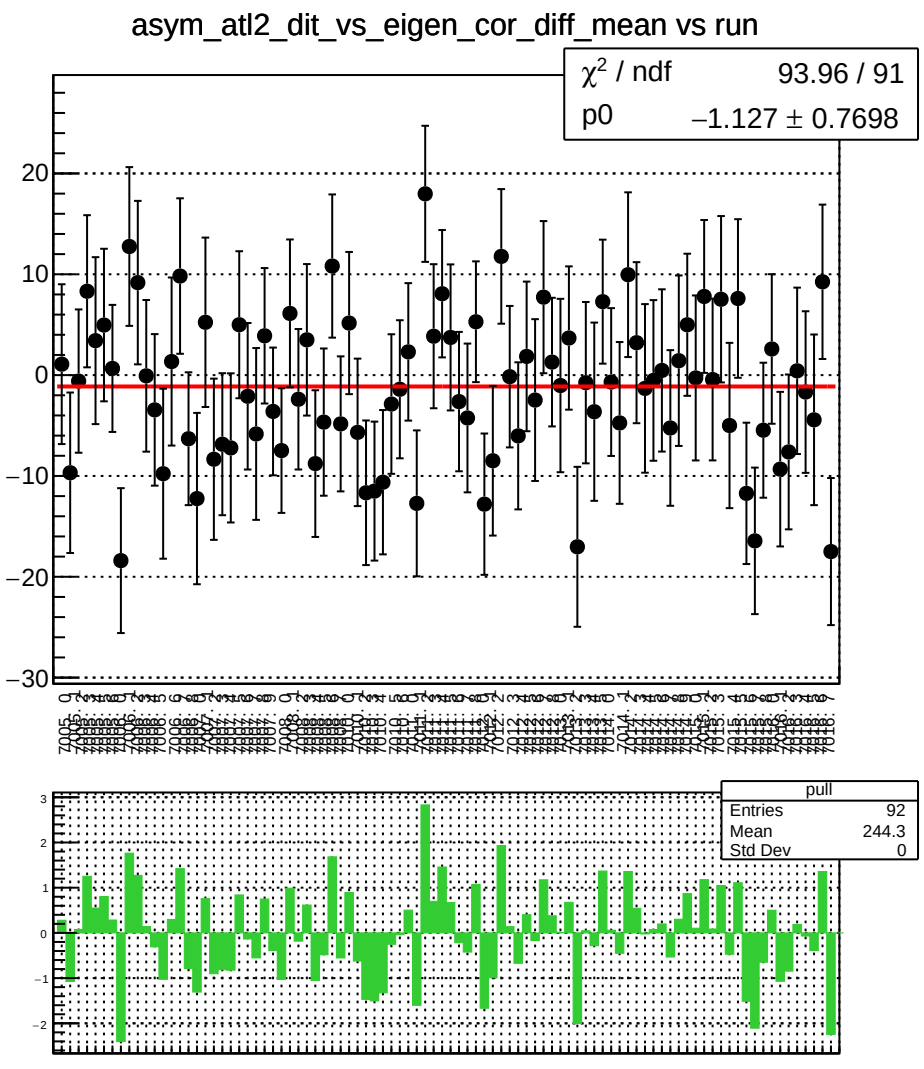

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 91
p0 1.936e−13 ± 2.617e−13
pull
Entries 92
Mean −1.011
Std Dev 0

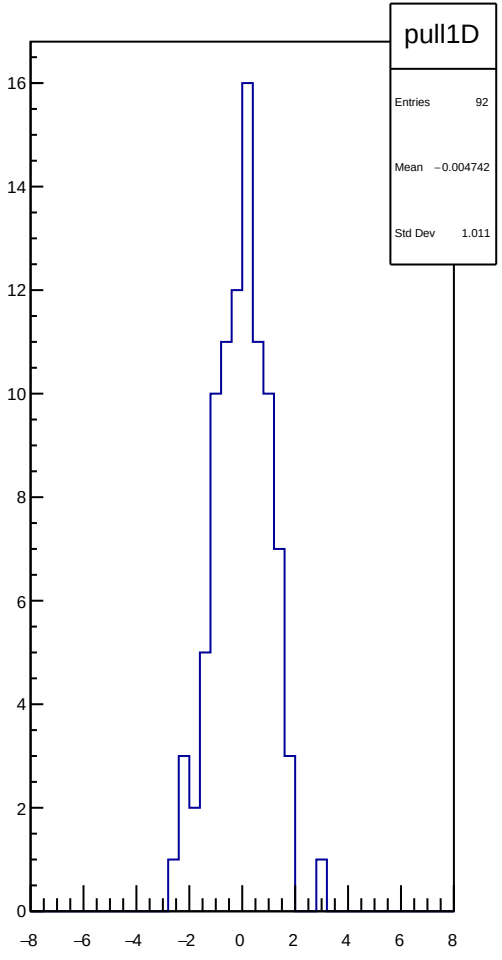

pull1D
Entries 92
Mean 0.03118
Std Dev 1.051

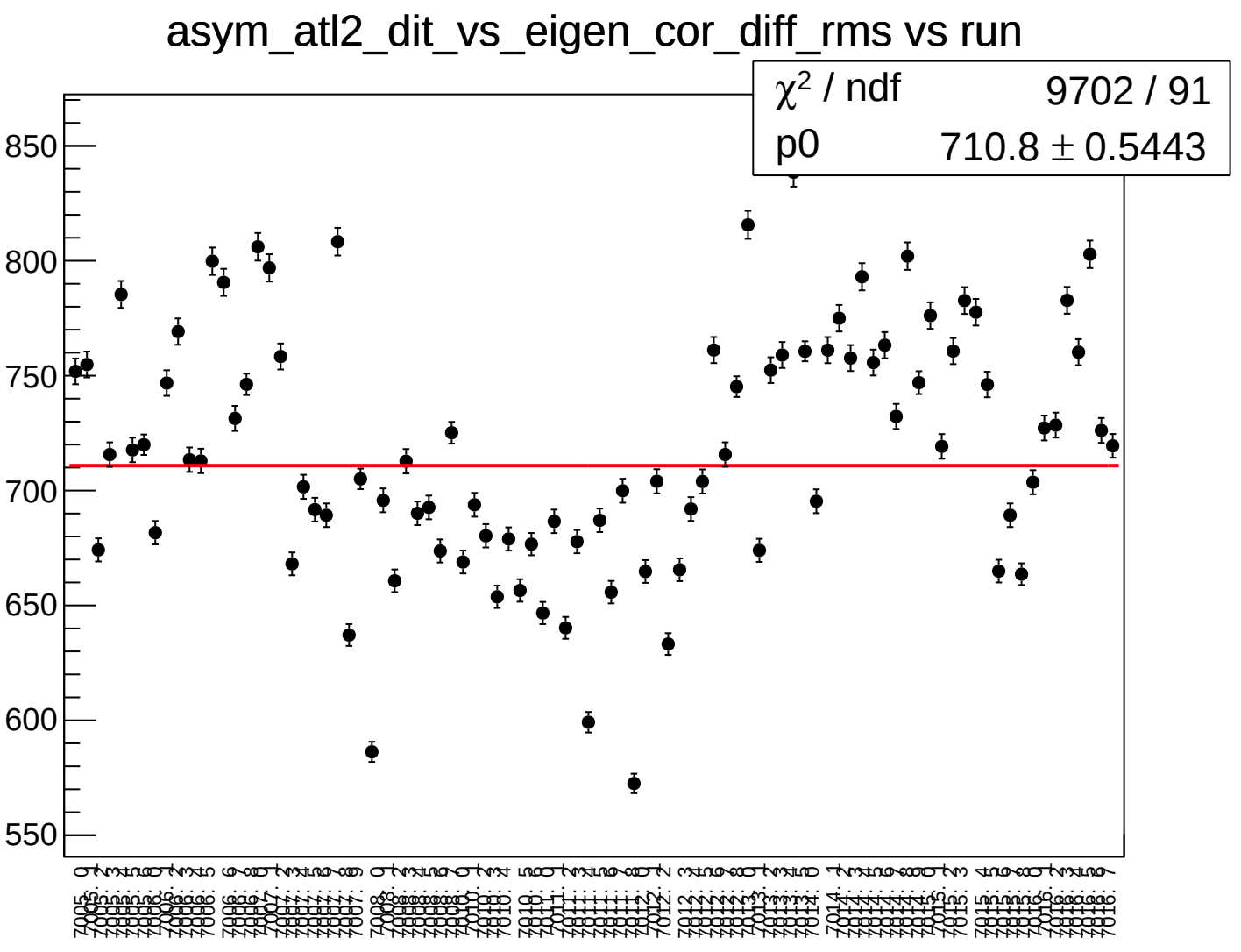

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.059e+06 / 91
p0 1.499e−10 ± 1.85e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

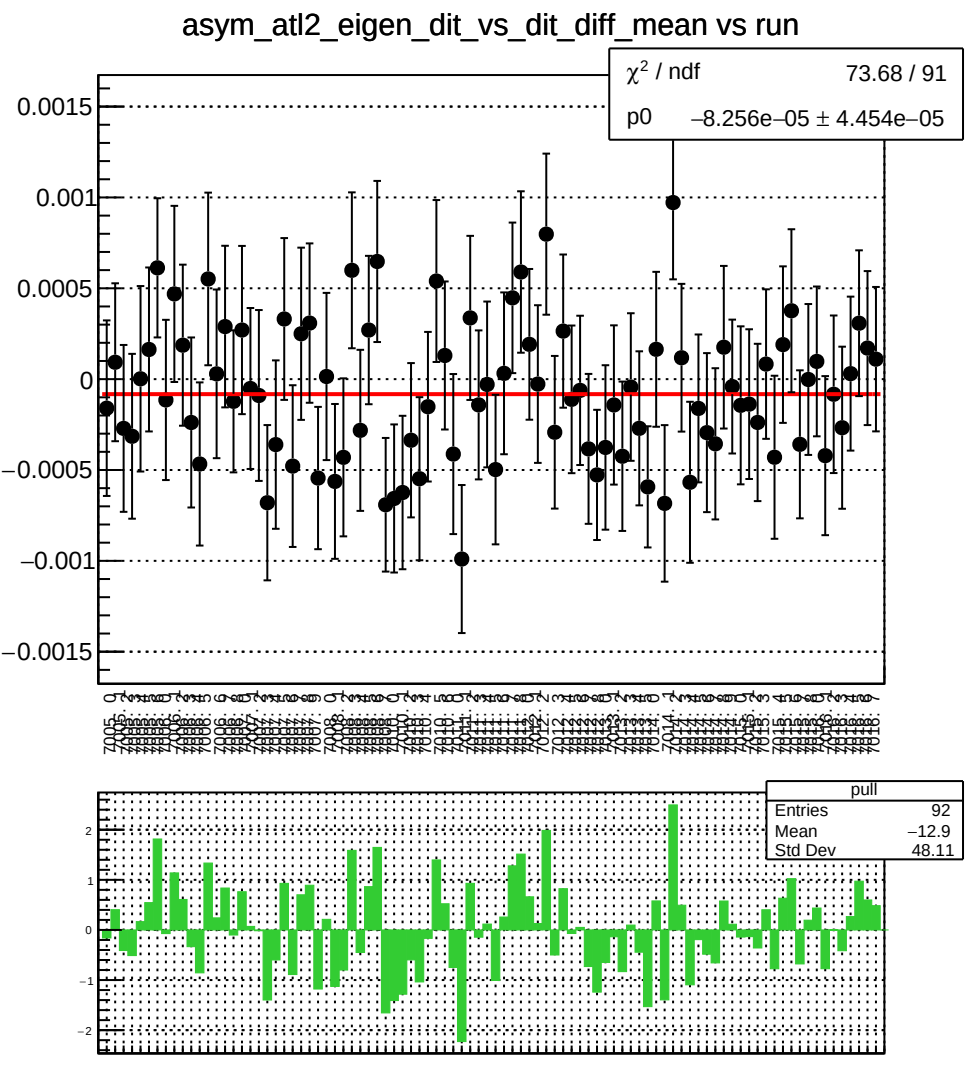

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 93.96 / 91
p0 −1.127 ± 0.7698
pull
Entries 92
Mean 244.3
Std Dev 0
pull1D
Entries 92
Mean −0.004742
Std Dev 1.011

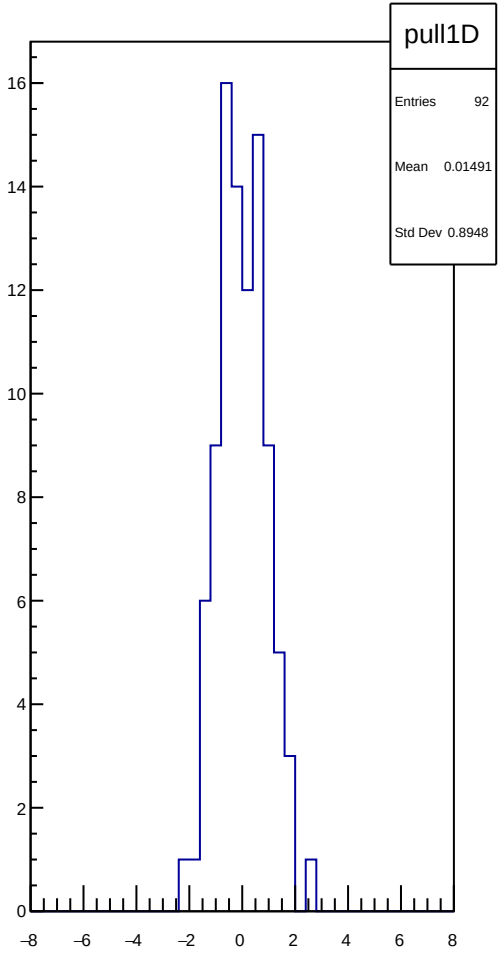

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 9702 / 91
p0 710.8 ± 0.5443
850
800
750
700
650
600
550

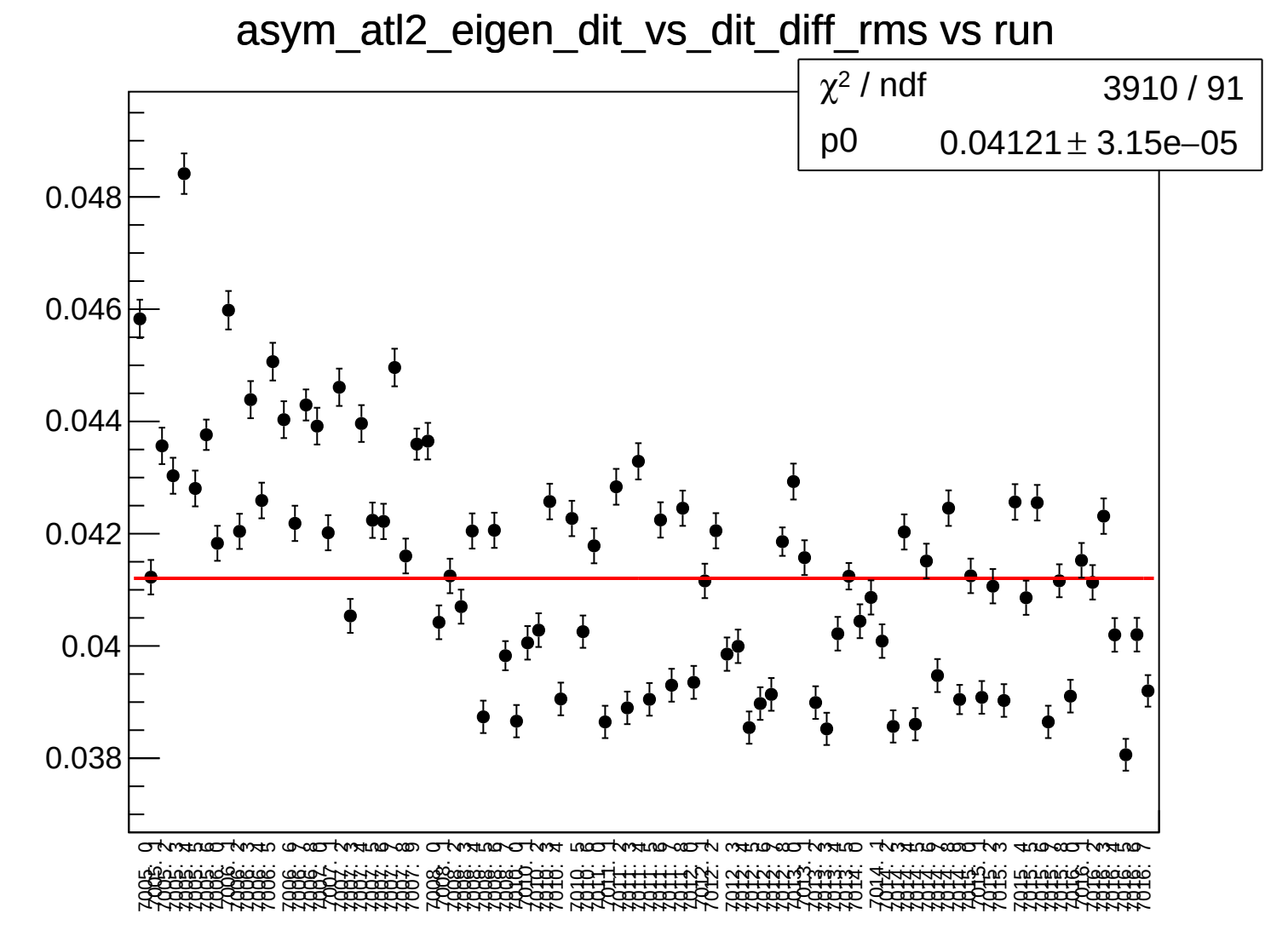

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.96 / 91
p0 −1.127 ± 0.7698
pull
Entries 92
Mean 244.3
Std Dev 0

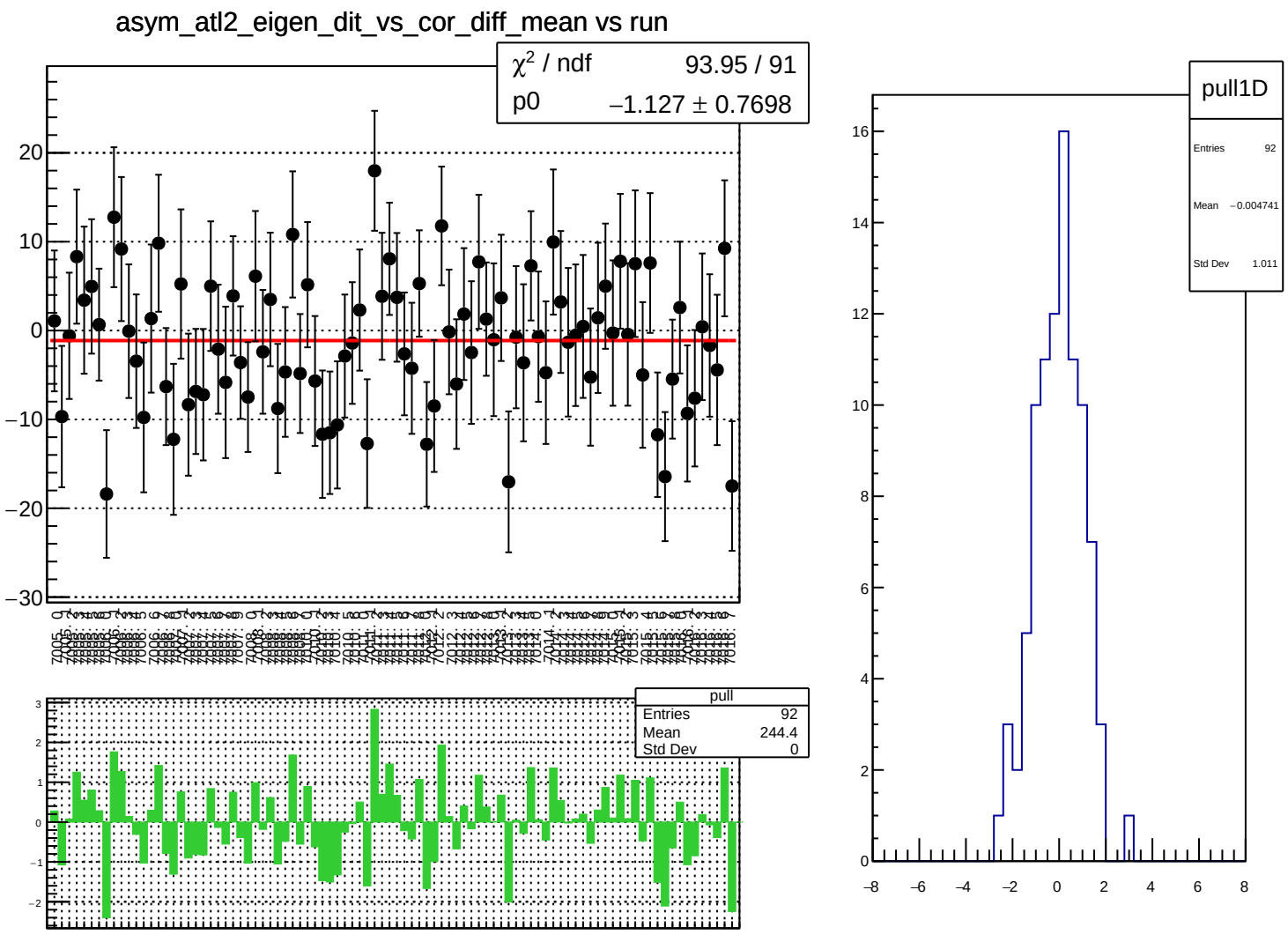

pull1D
Entries 92
Mean −0.004742
Std Dev 1.011

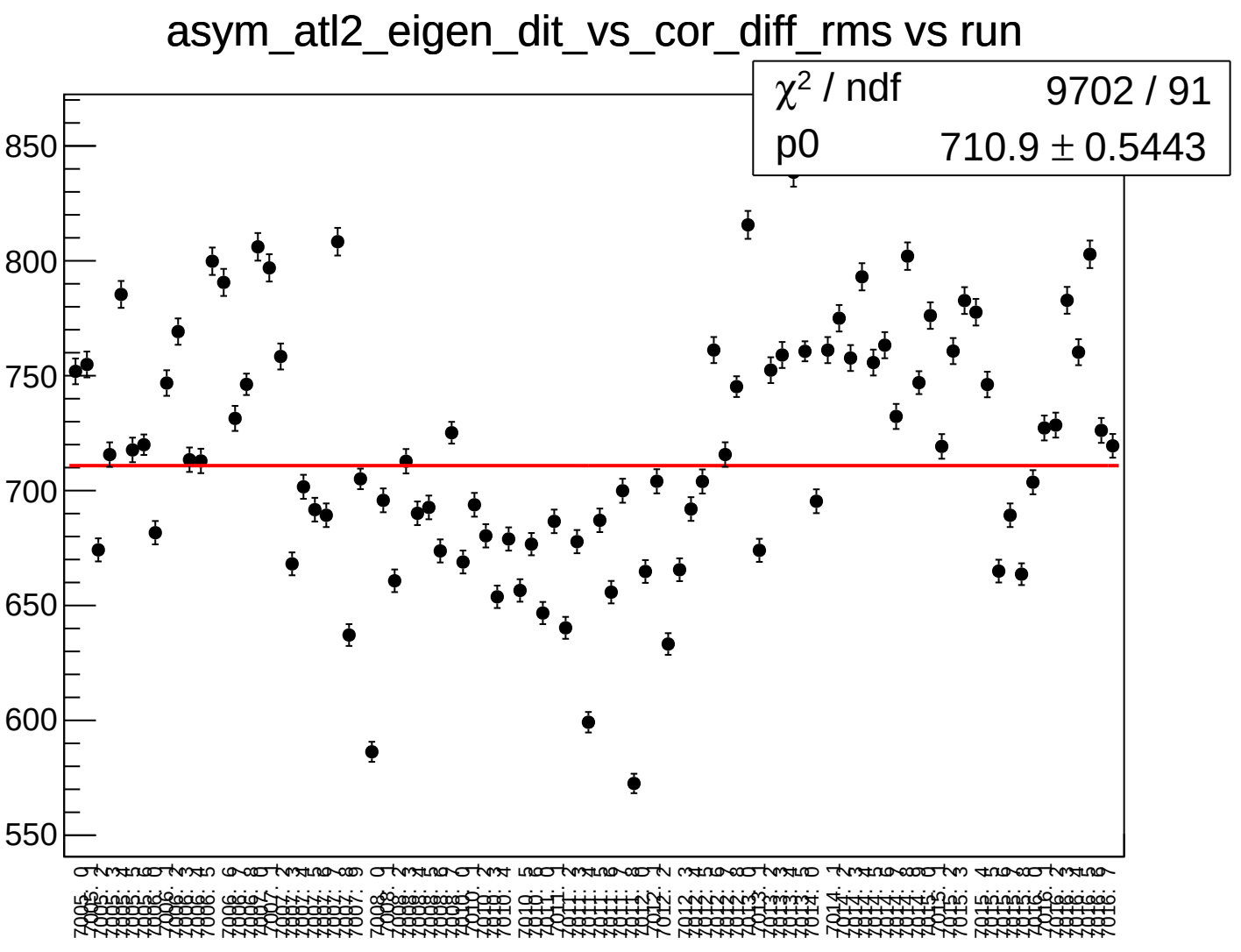

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9702 / 91
p0 710.8 ± 0.5443
850
800
750
700
650
600
550

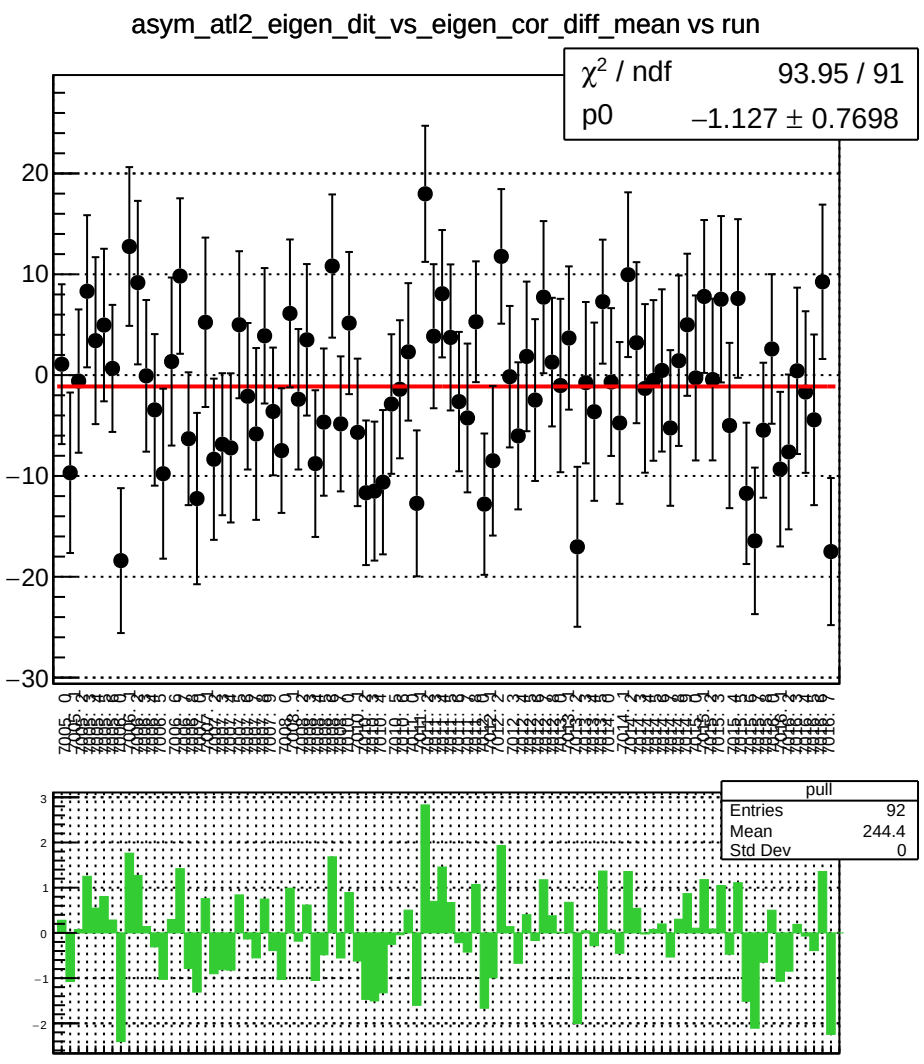

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.68 / 91
p0 −8.256e−05 ± 4.454e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean −12.9
Std Dev 48.11
2
1
0
−1
−2

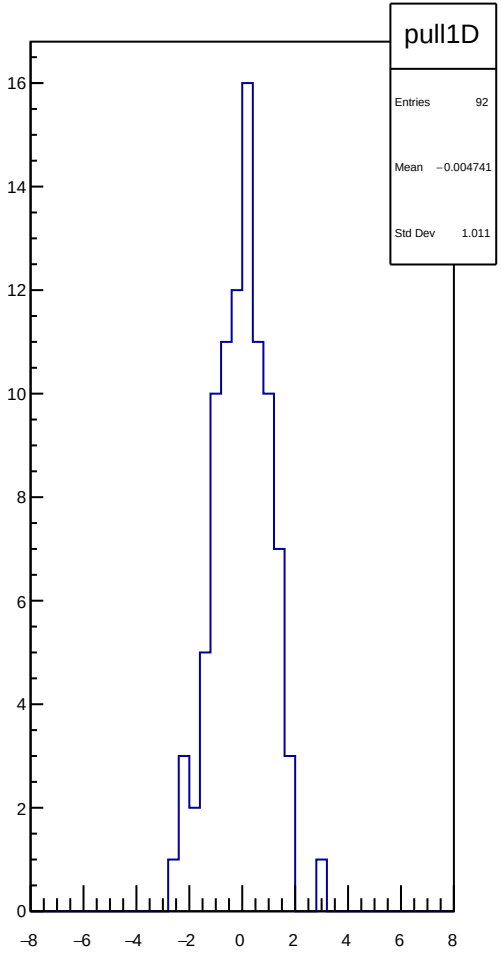

pull1D
Entries 92
Mean 0.01491
Std Dev 0.8948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

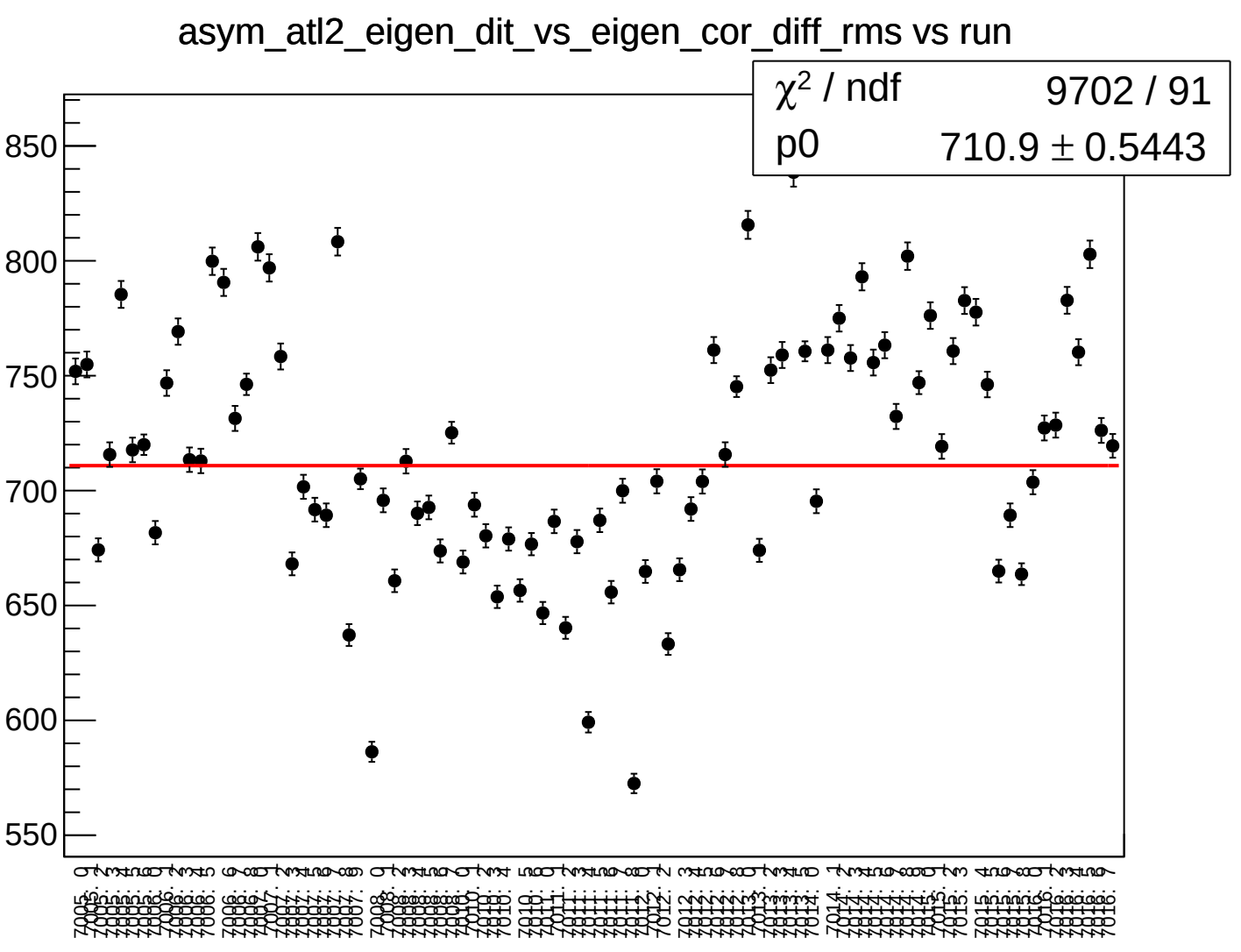

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3910 / 91
p0 0.04121 ± 3.15e−05
0.048
0.046
0.044
0.042
0.04
0.038

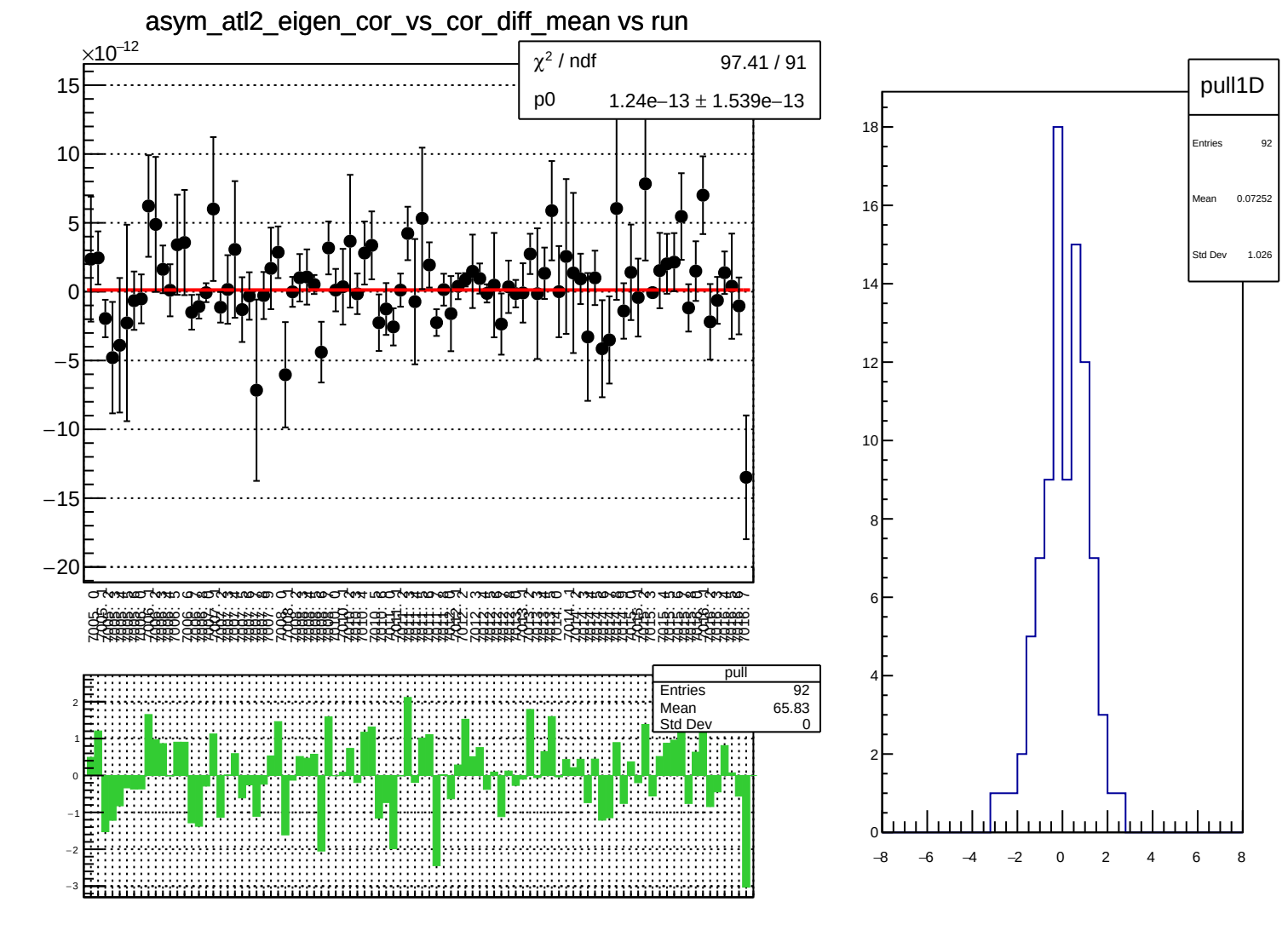

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.95 / 91
p0 −1.127 ± 0.7698
pull
Entries 92
Mean 244.4
Std Dev 0
pull1D
Entries 92
Mean −0.004741
Std Dev 1.011

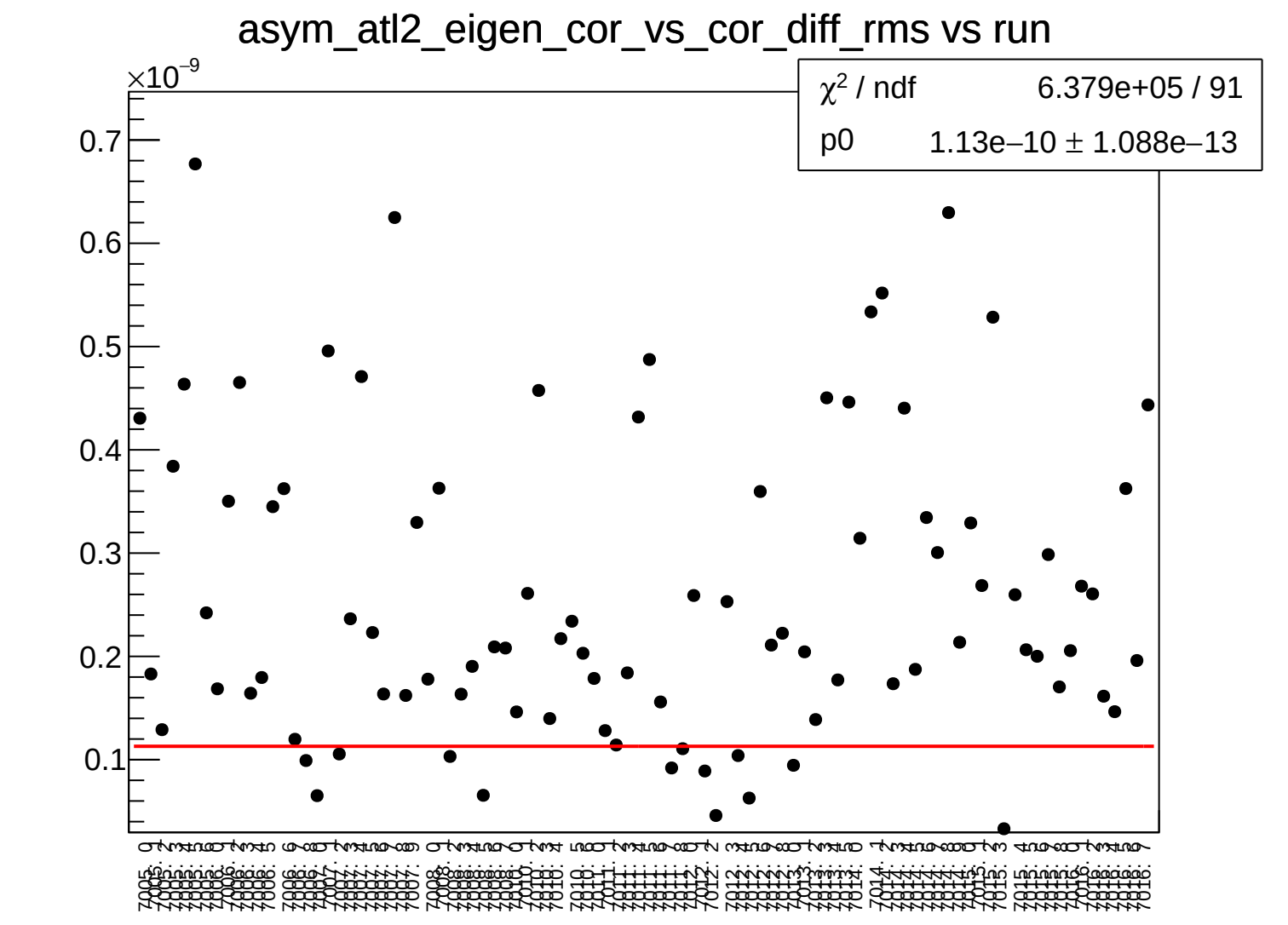

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9702 / 91
p0 710.9 ± 0.5443
850
800
750
700
650
600
550

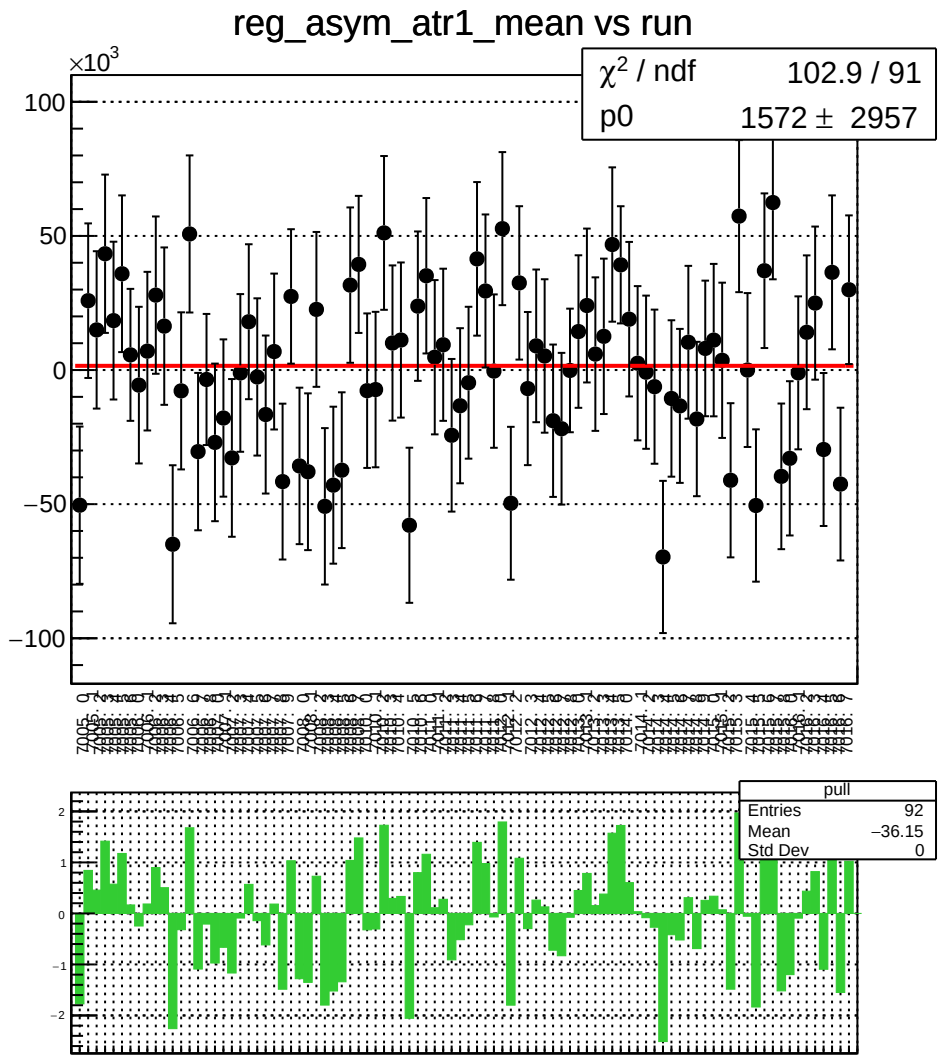

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.95 / 91
p0 −1.127 ± 0.7698
pull
Entries 92
Mean 244.4
Std Dev 0

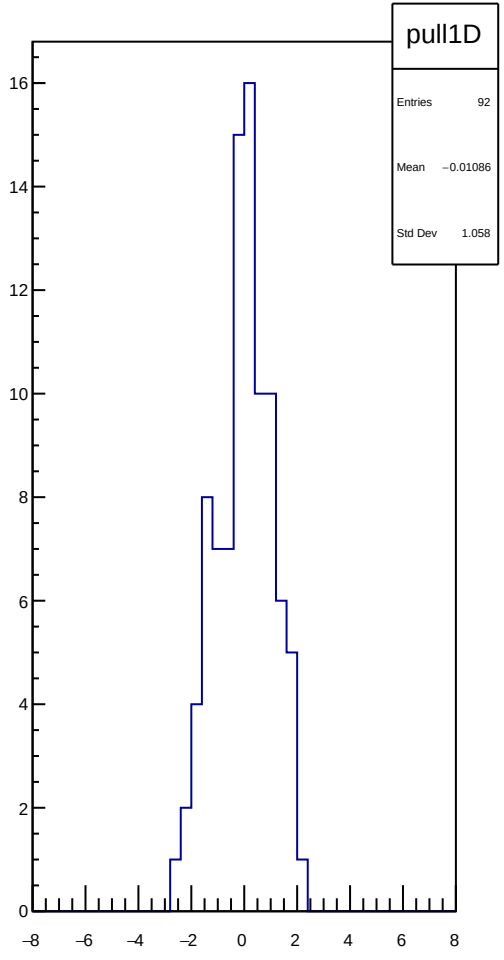

pull1D
Entries 92
Mean −0.004741
Std Dev 1.011

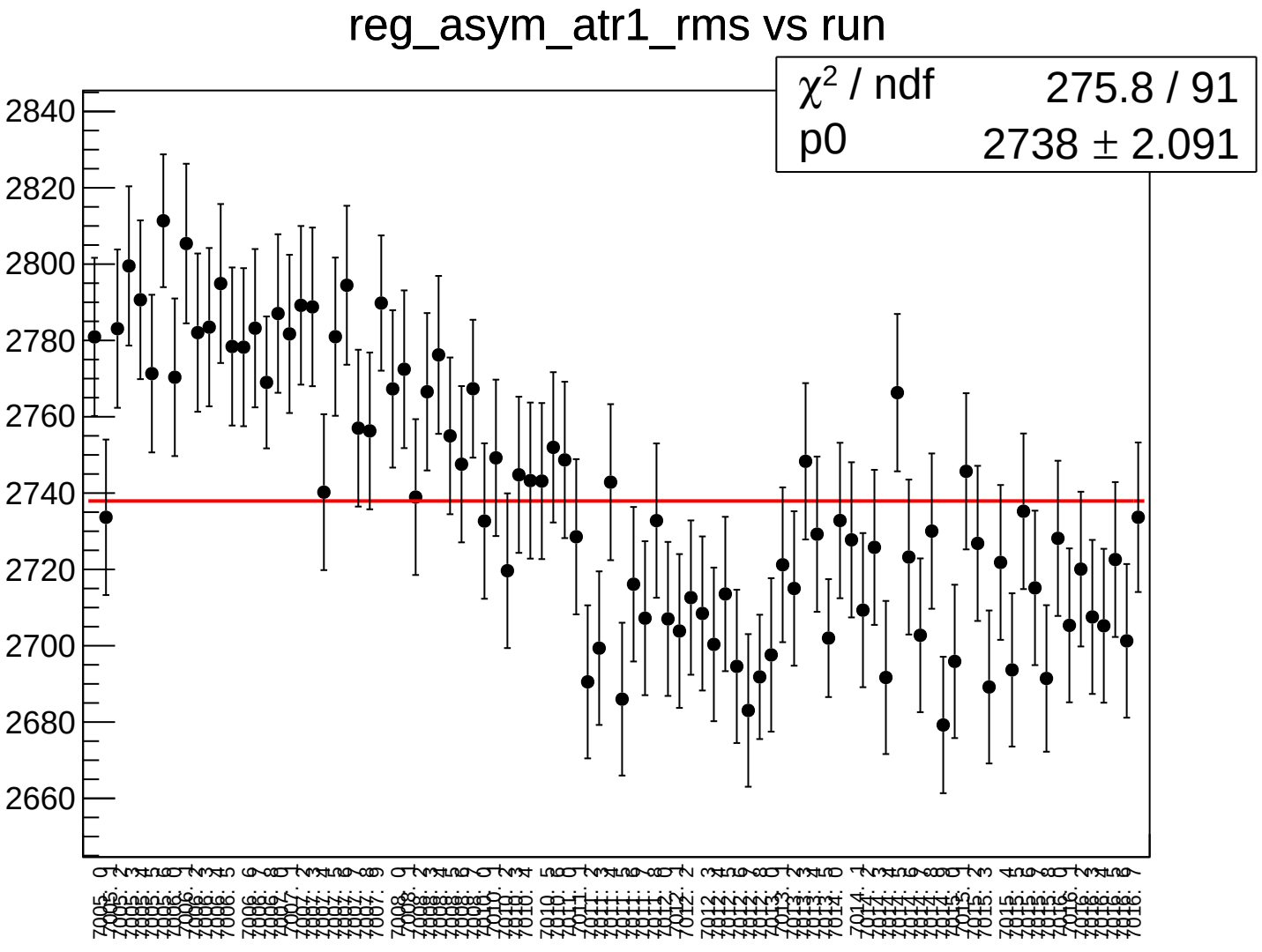

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9702 / 91
p0 710.9 ± 0.5443
850
800
750
700
650
600
550

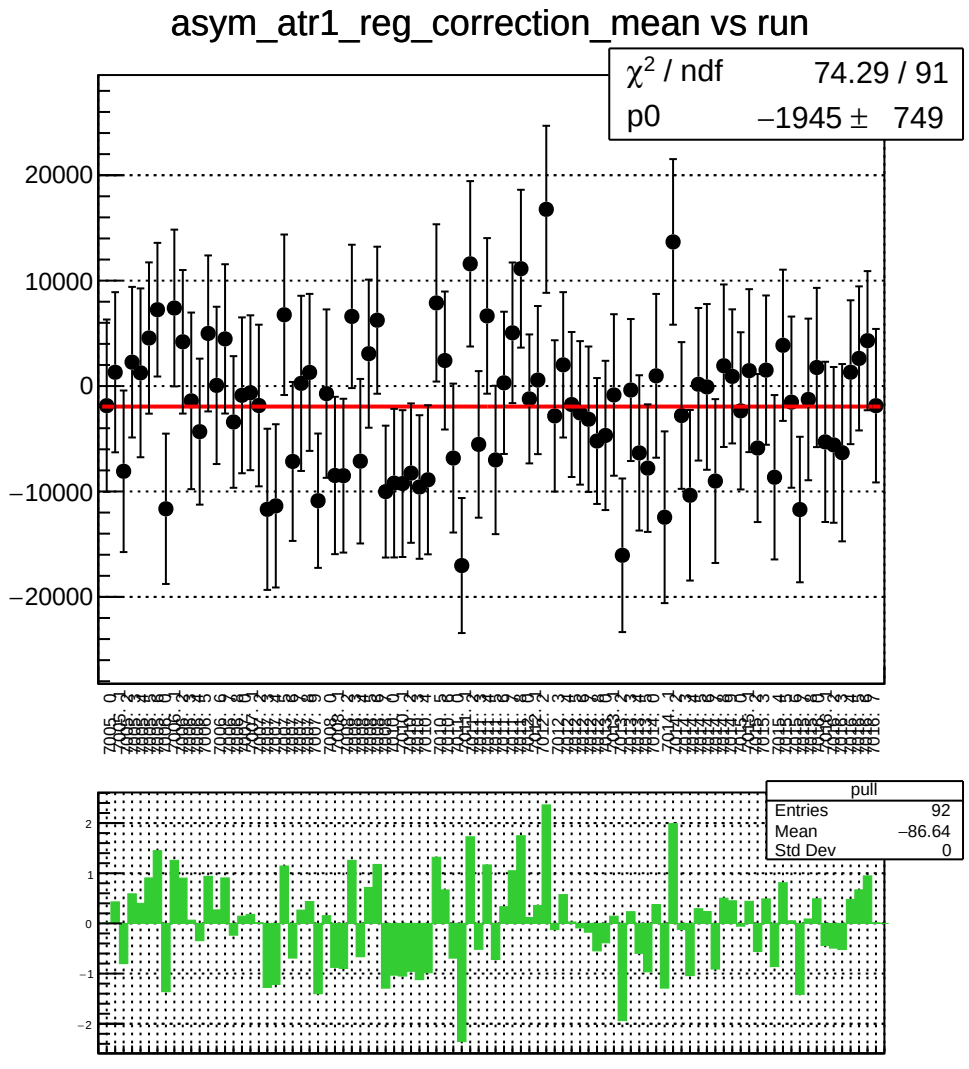

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.41 / 91
p0 1.24e−13 ± 1.539e−13
pull
Entries 92
Mean 65.83
Std Dev 0
pull1D
Entries 92
Mean 0.07252
Std Dev 1.026

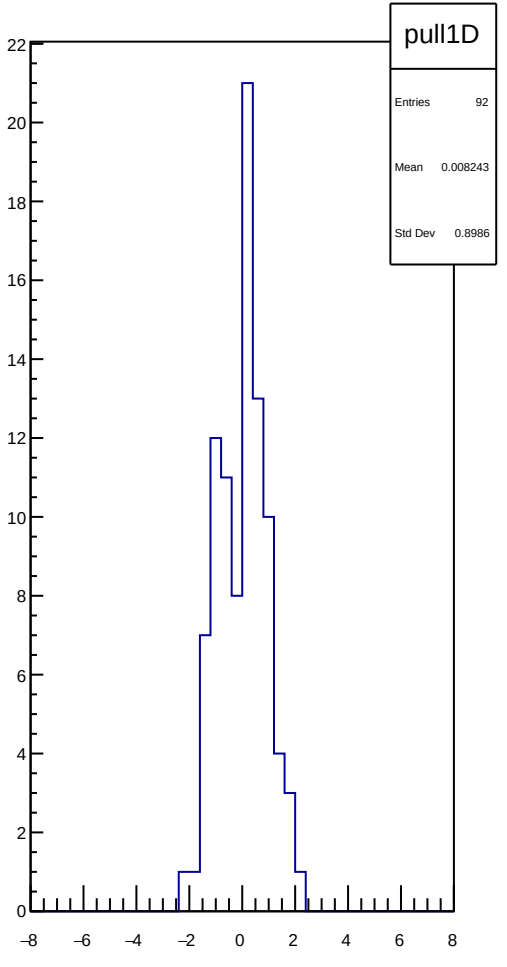

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.379e+05 / 91
p0 1.13e−10 ± 1.088e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

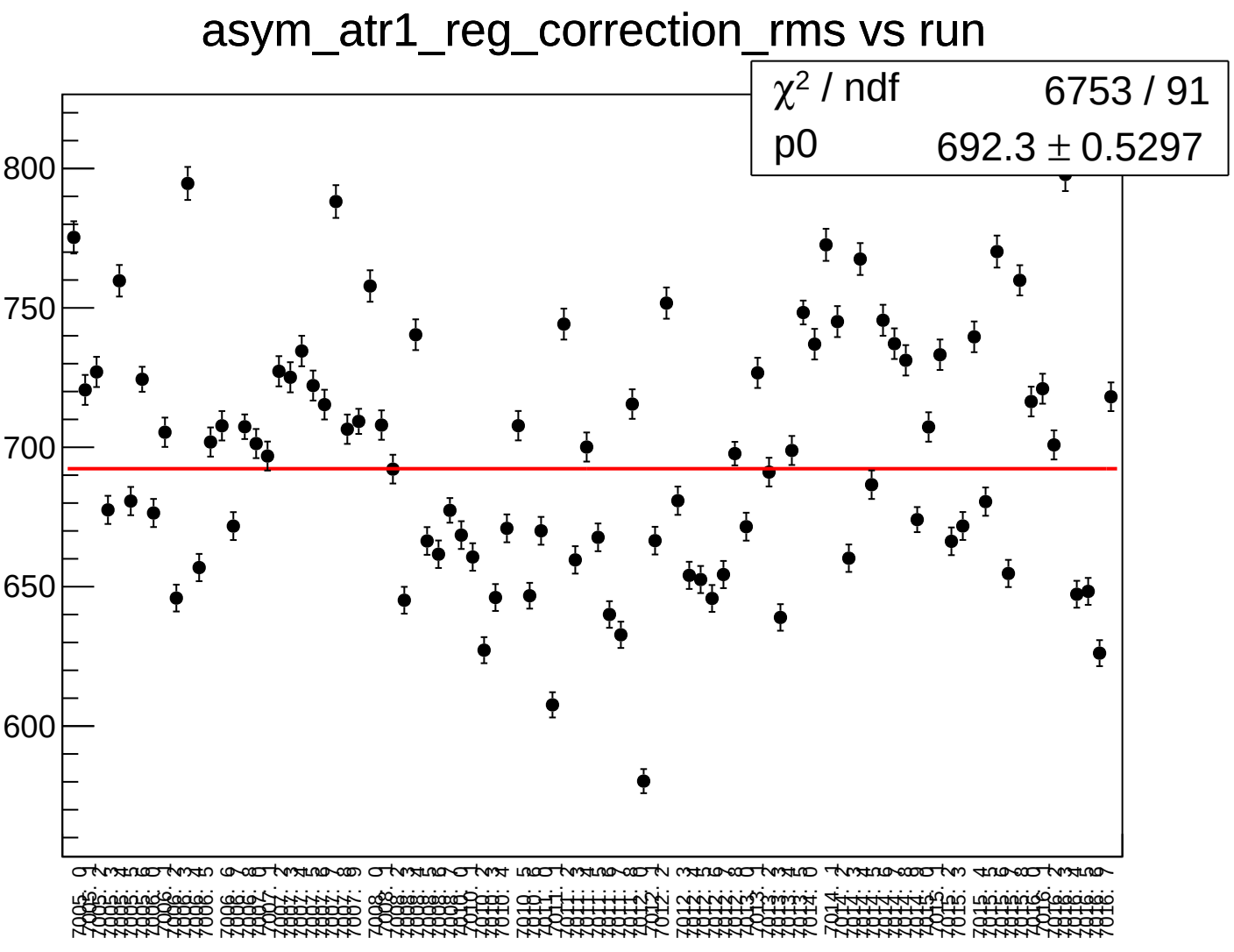

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 102.9 / 91
p0 1572 ± 2957
100
50
0
−50
−100
pull
Entries 92
Mean −36.15
Std Dev 0
2
1
0
−1
−2

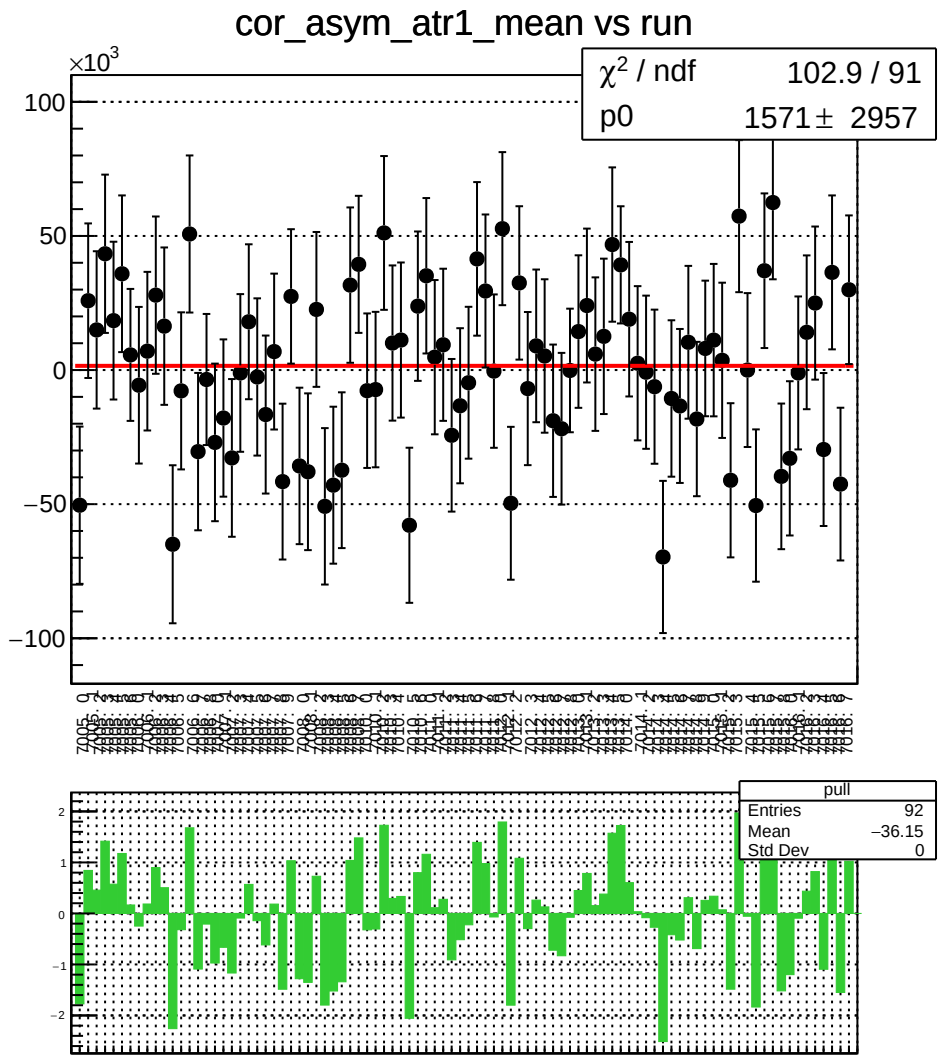

pull1D
Entries 92
Mean −0.01086
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

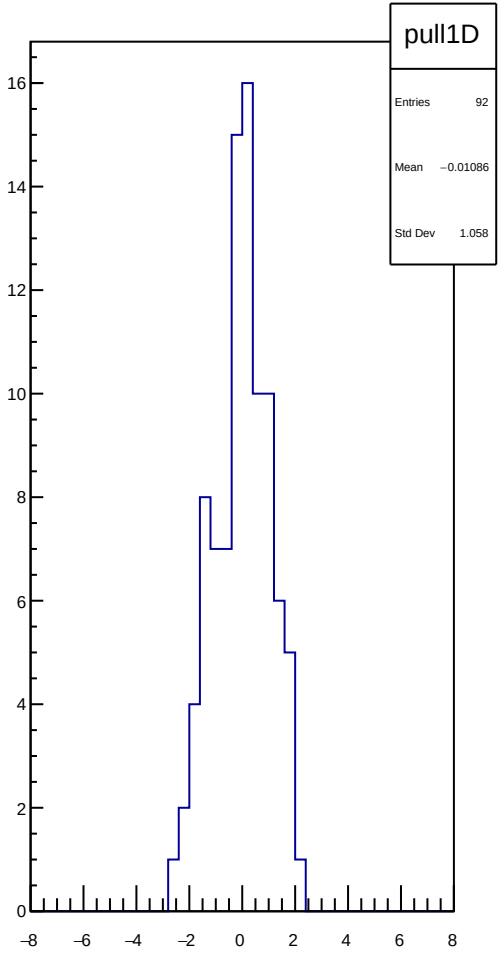

reg_asym_atr1_rms vs run
χ² / ndf 275.8 / 91
p0 2738 ± 2.091
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660

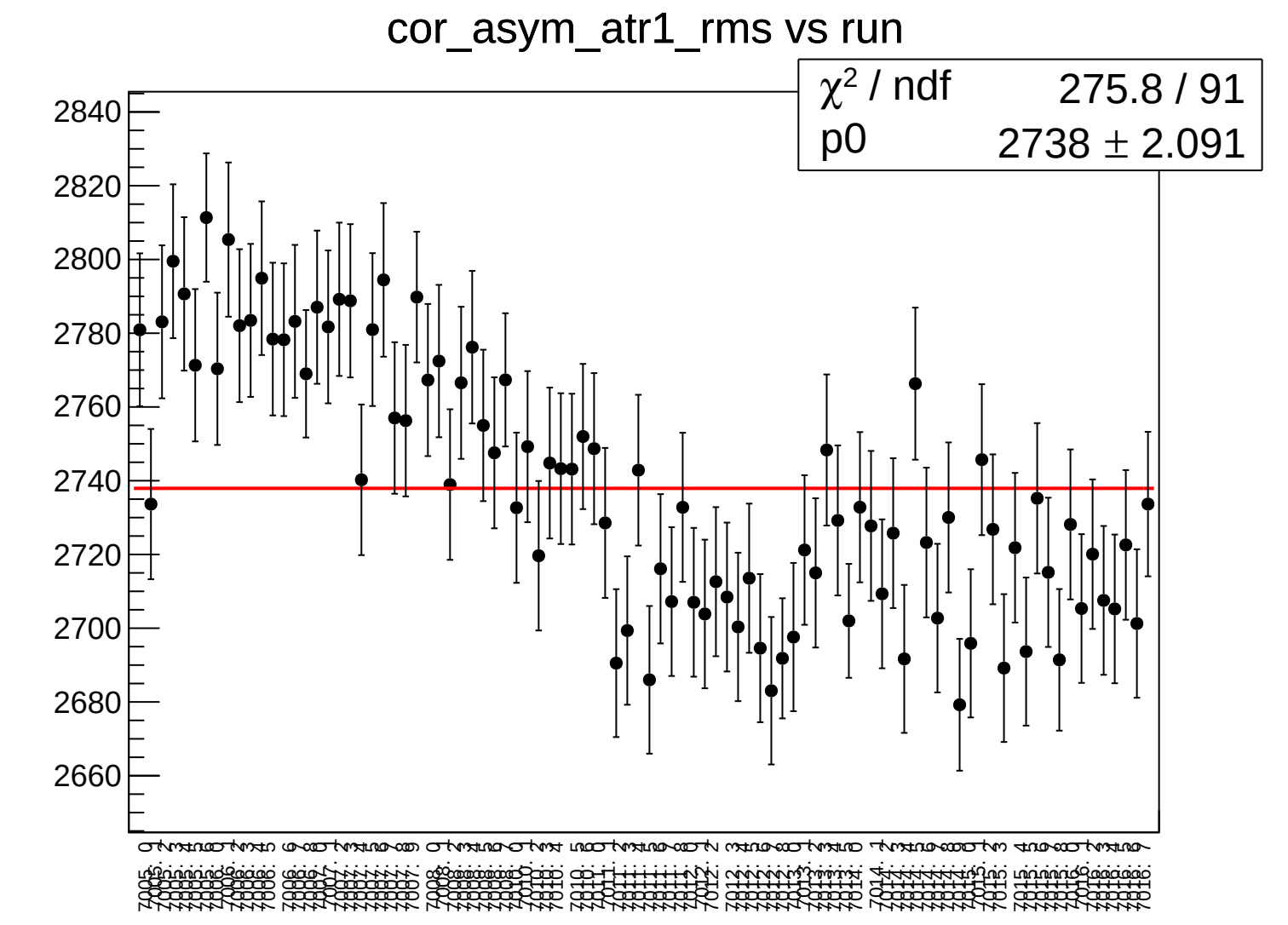

asym_atr1_reg_correction_mean vs run
χ² / ndf 74.29 / 91
p0 −1945 ± 749
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −86.64
Std Dev 0
2
1
0
−1
−2

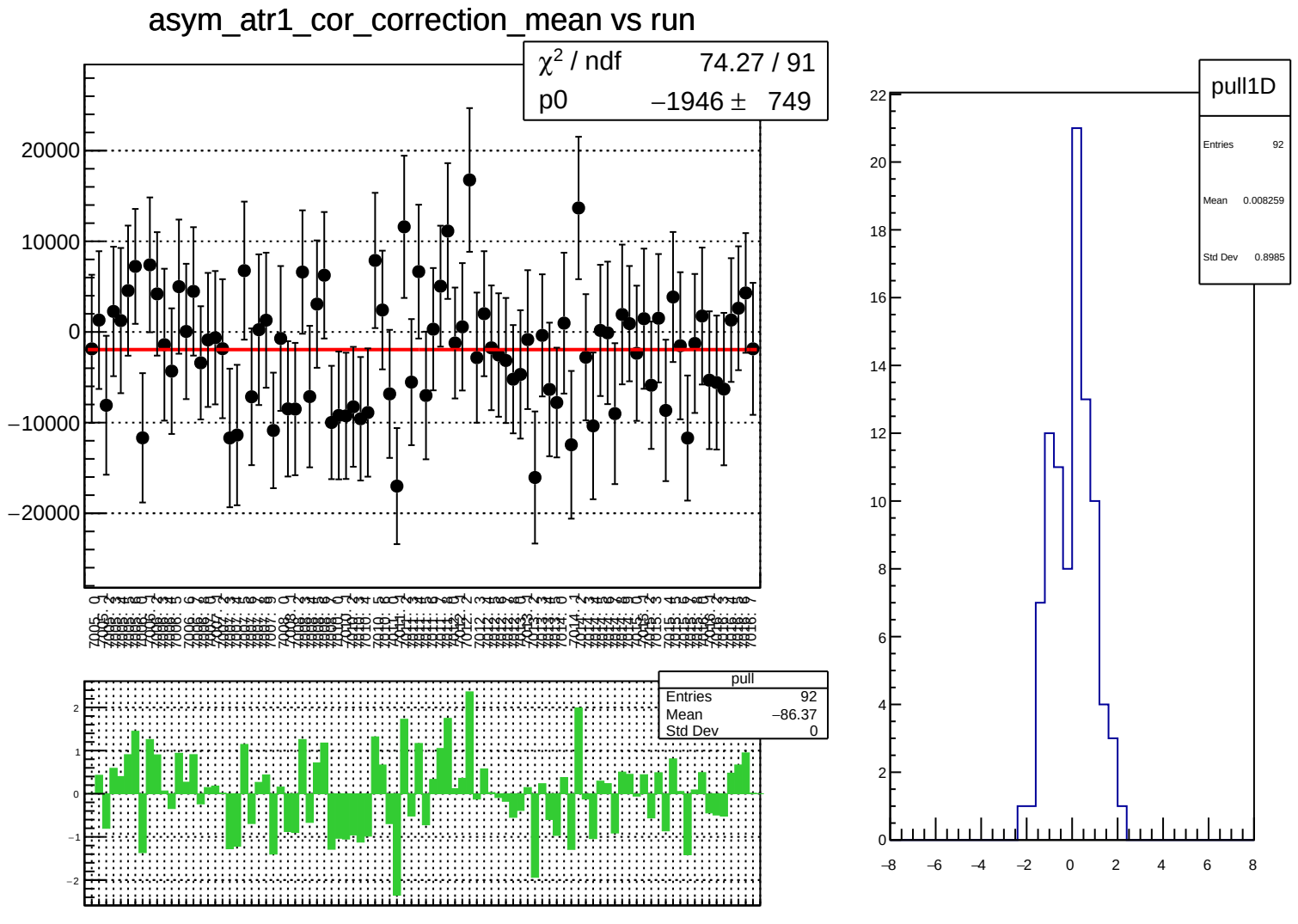

pull1D
Entries 92
Mean 0.008243
Std Dev 0.8986
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

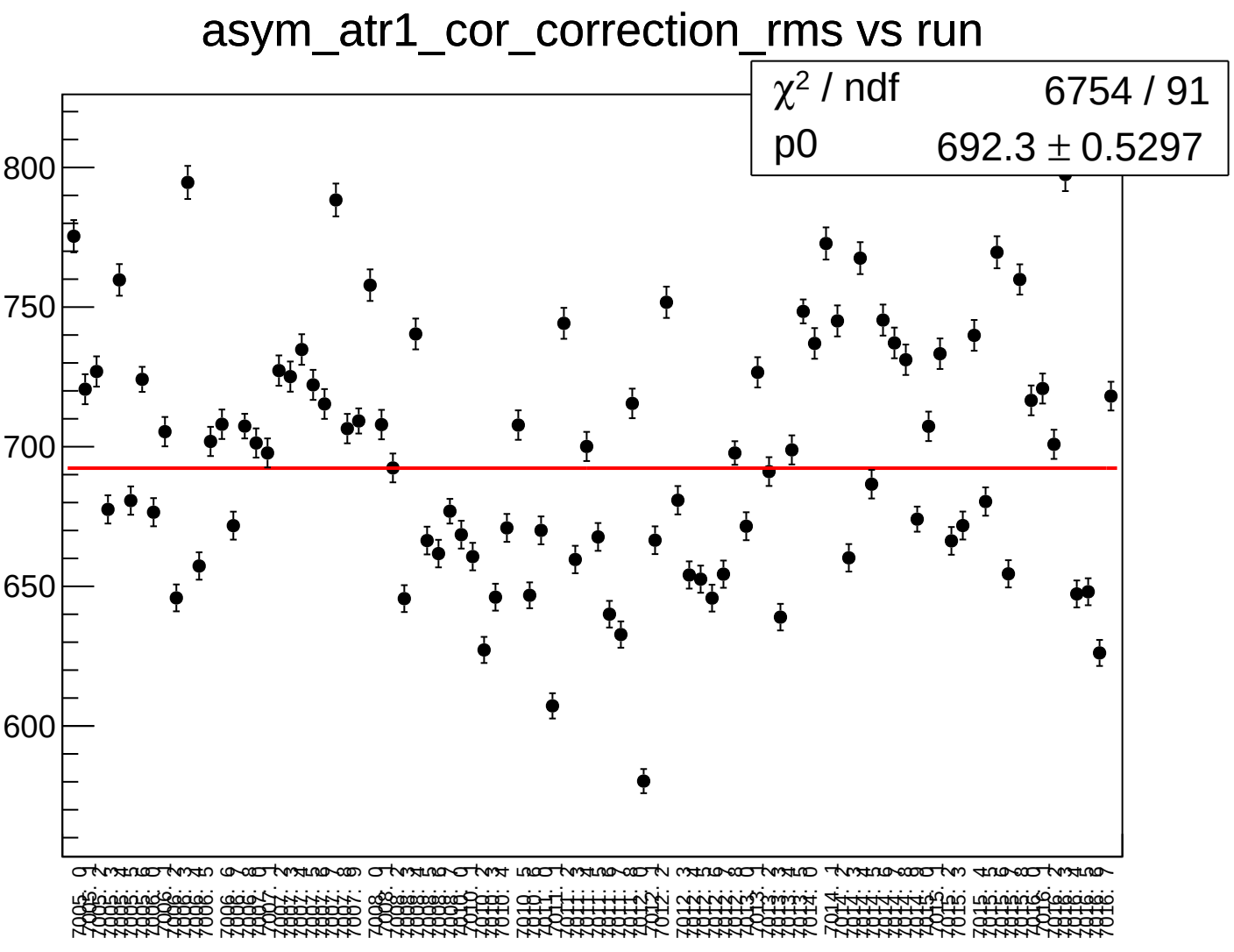

asym_atr1_reg_correction_rms vs run
χ² / ndf 6753 / 91
p0 692.3 ± 0.5297
800
750
700
650
600

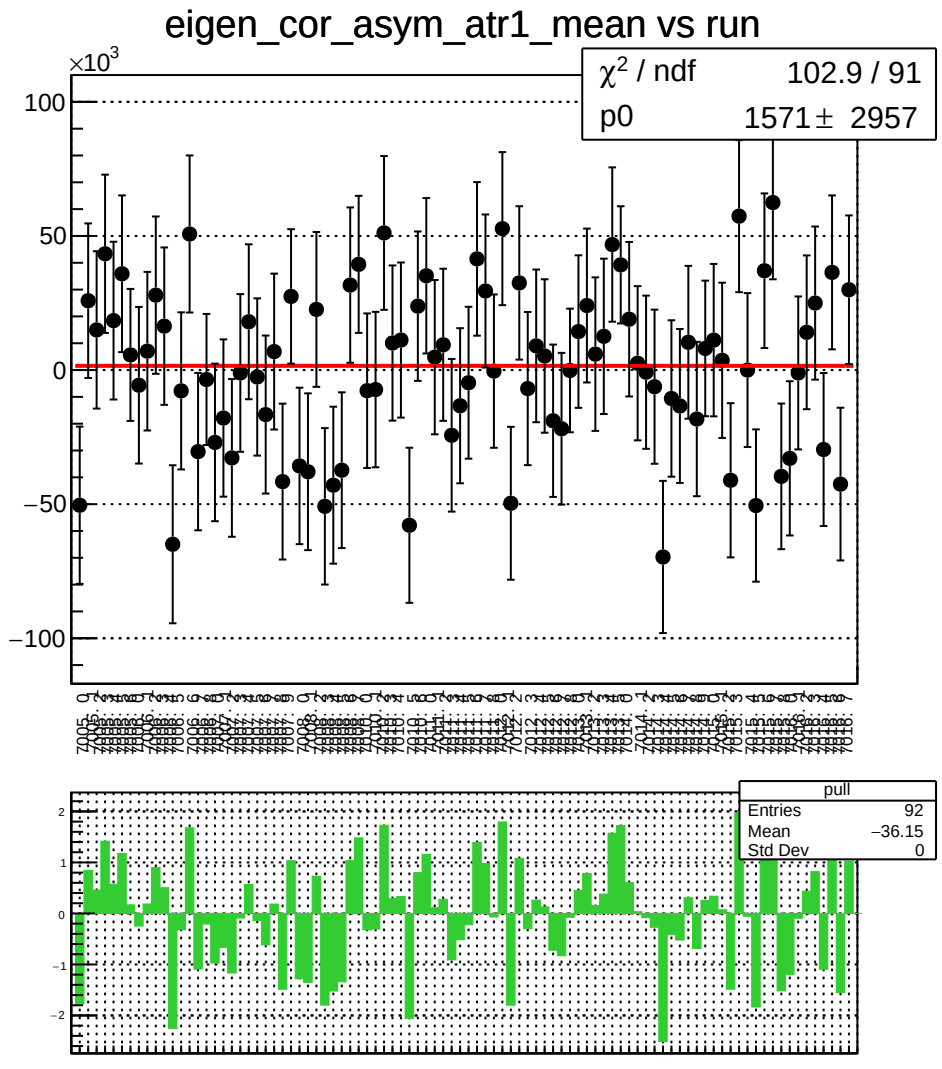

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 102.9 / 91
p0 1571 ± 2957
100
50
0
−50
−100
pull
Entries 92
Mean −36.15
Std Dev 0
2
1
0
−1
−2

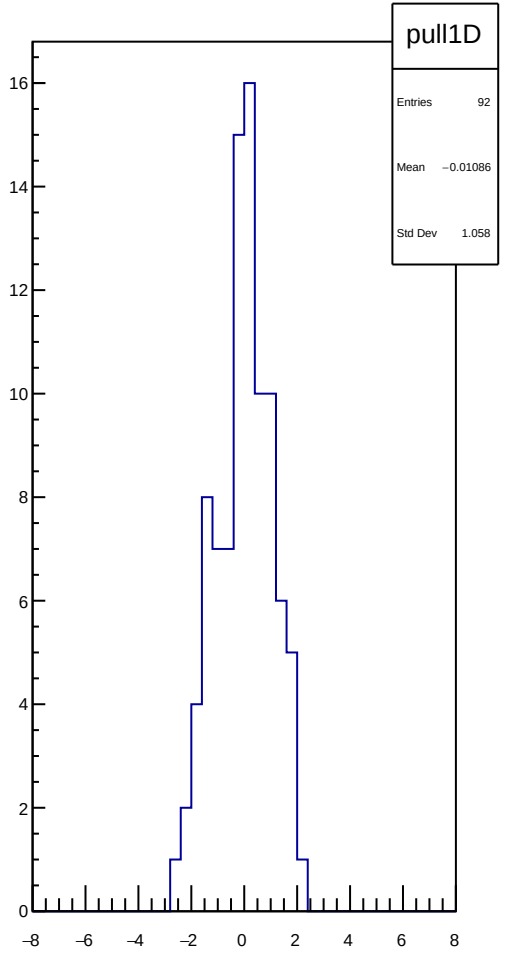

pull1D
Entries 92
Mean −0.01086
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

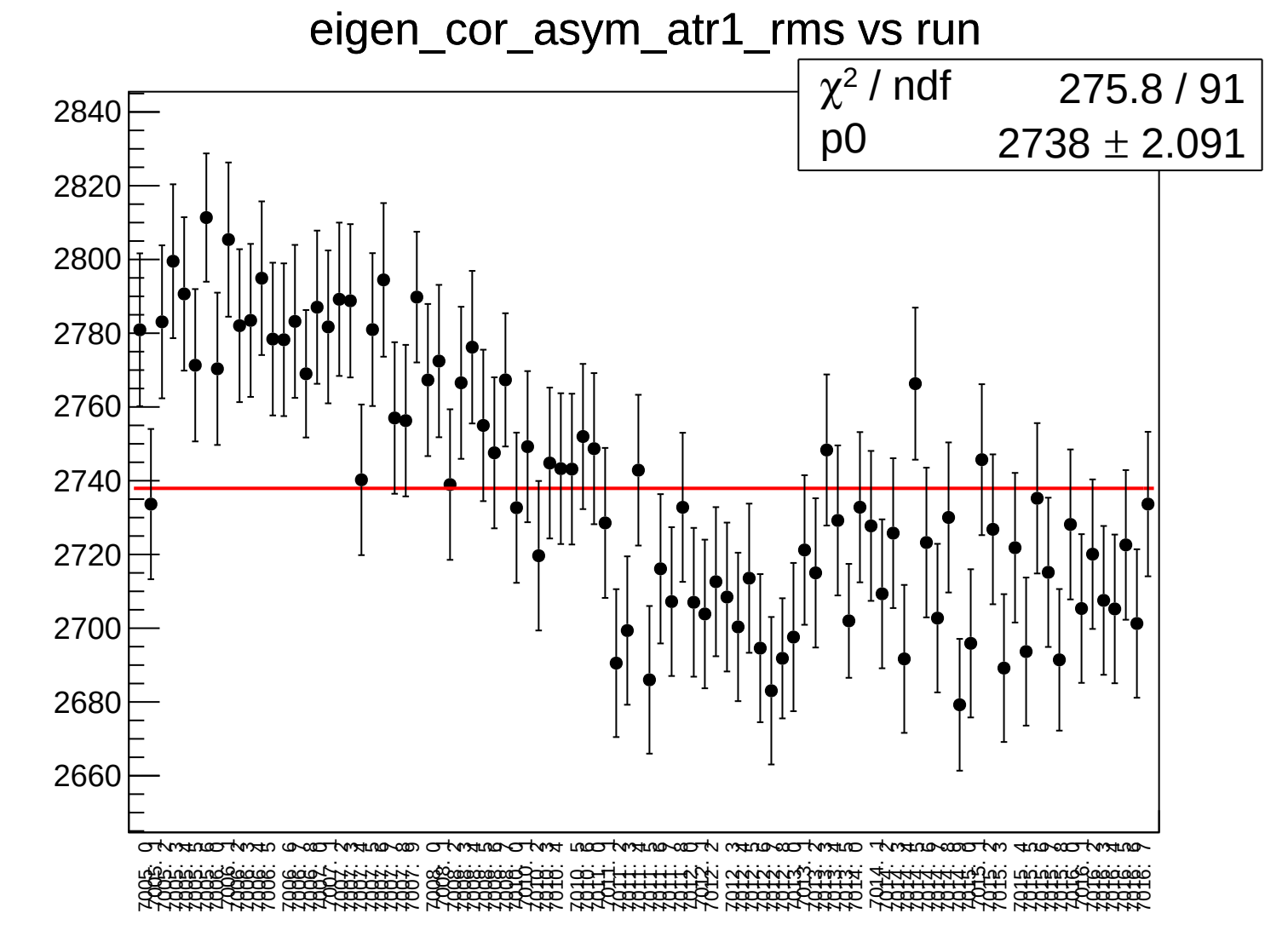

cor_asym_atr1_rms vs run
χ² / ndf 275.8 / 91
p0 2738 ± 2.091
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660

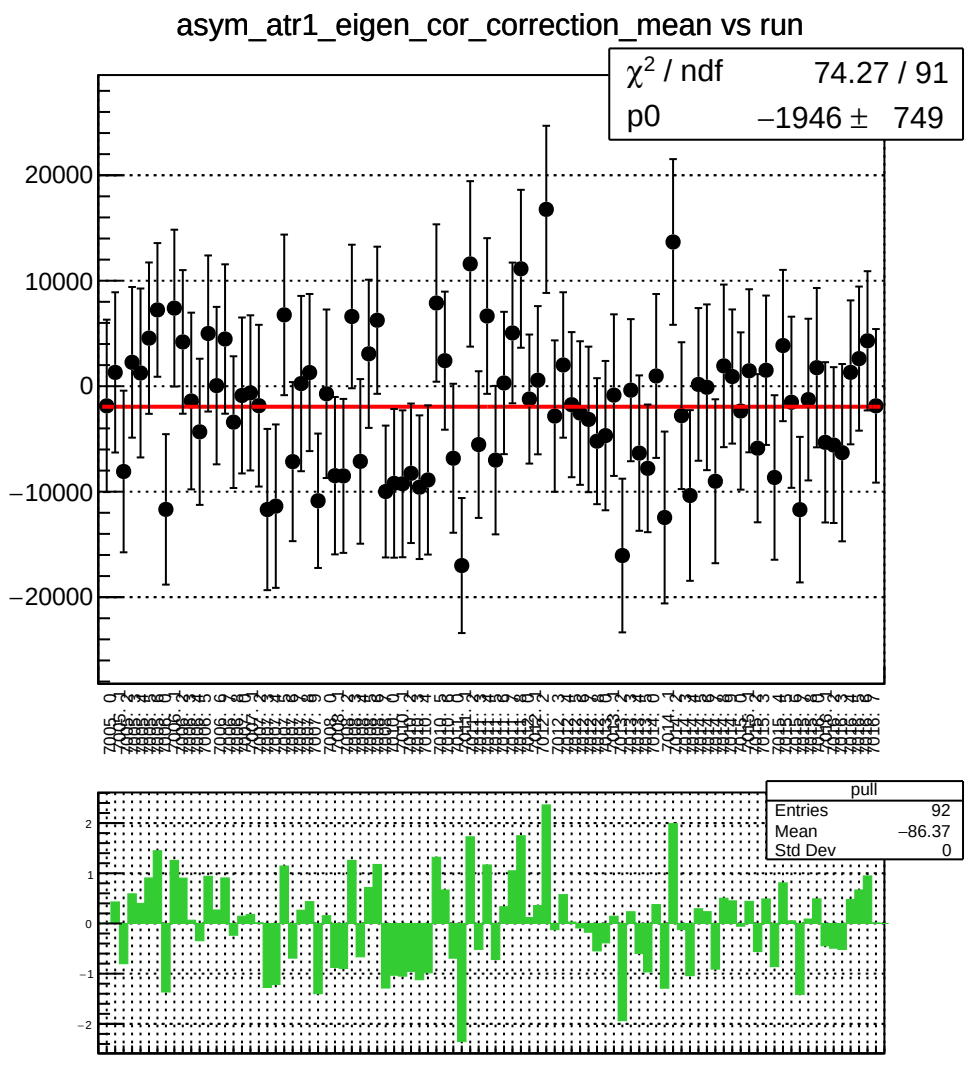

asym_atr1_cor_correction_mean vs run
χ² / ndf 74.27 / 91
p0 −1946 ± 749
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −86.37
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.008259
Std Dev 0.8985
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

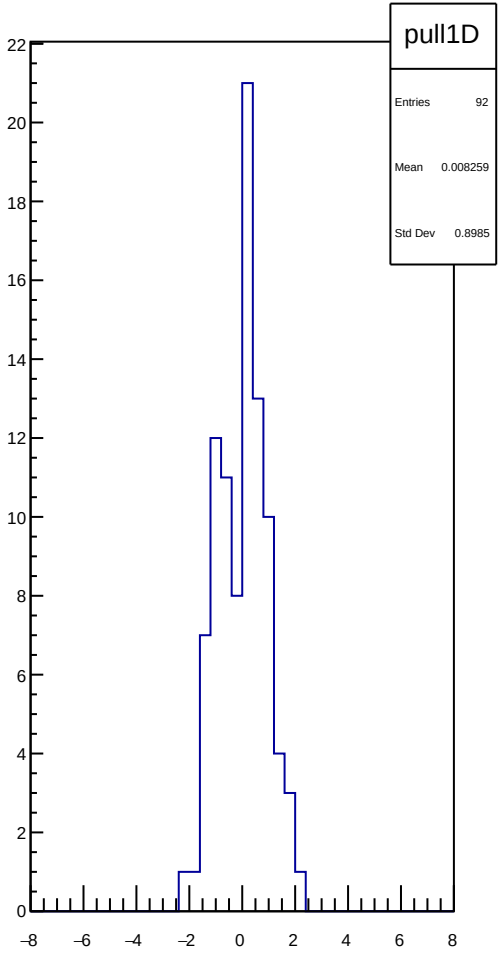

asym_atr1_cor_correction_rms vs run
χ² / ndf 6754 / 91
p0 692.3 ± 0.5297
800
750
700
650
600

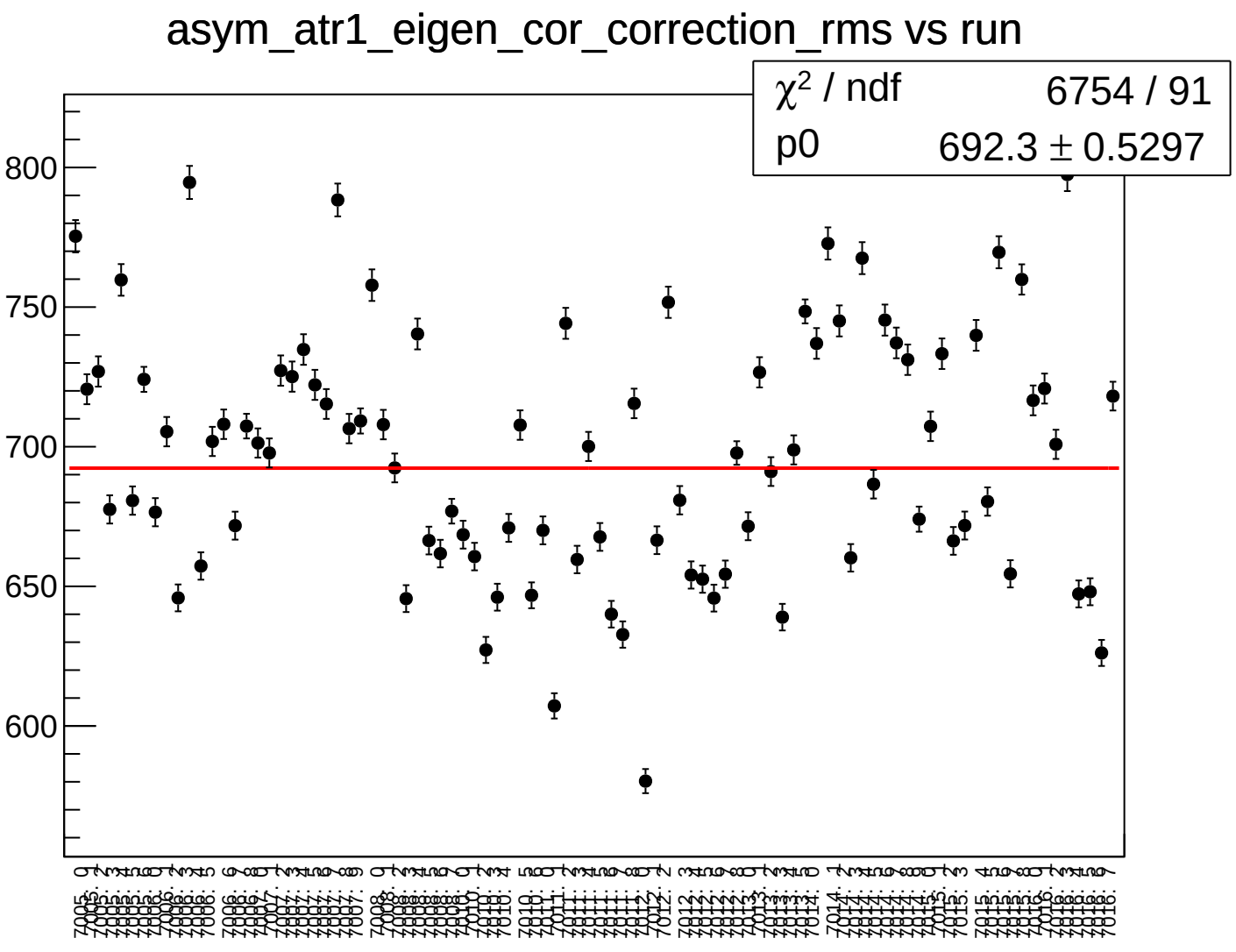

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 102.9 / 91
p0 1571 ± 2957
100
50
0
−50
−100
pull
Entries 92
Mean −36.15
Std Dev 0
2
1
0
−1
−2

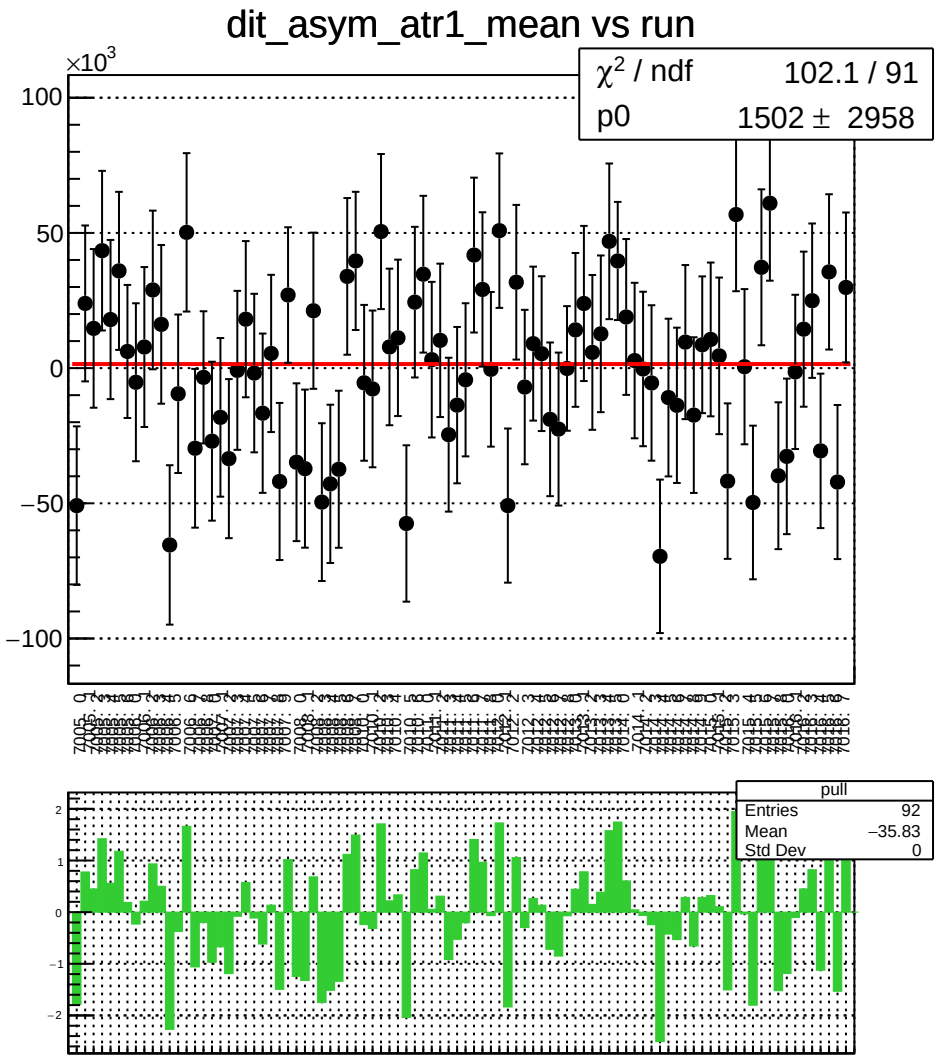

pull1D
Entries 92
Mean −0.01086
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

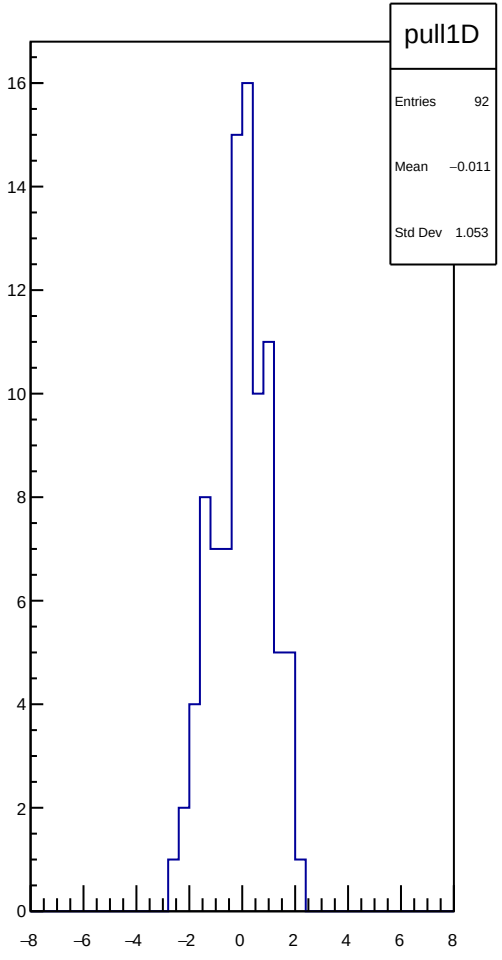

eigen_cor_asym_atr1_rms vs run
χ² / ndf 275.8 / 91
p0 2738 ± 2.091
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660

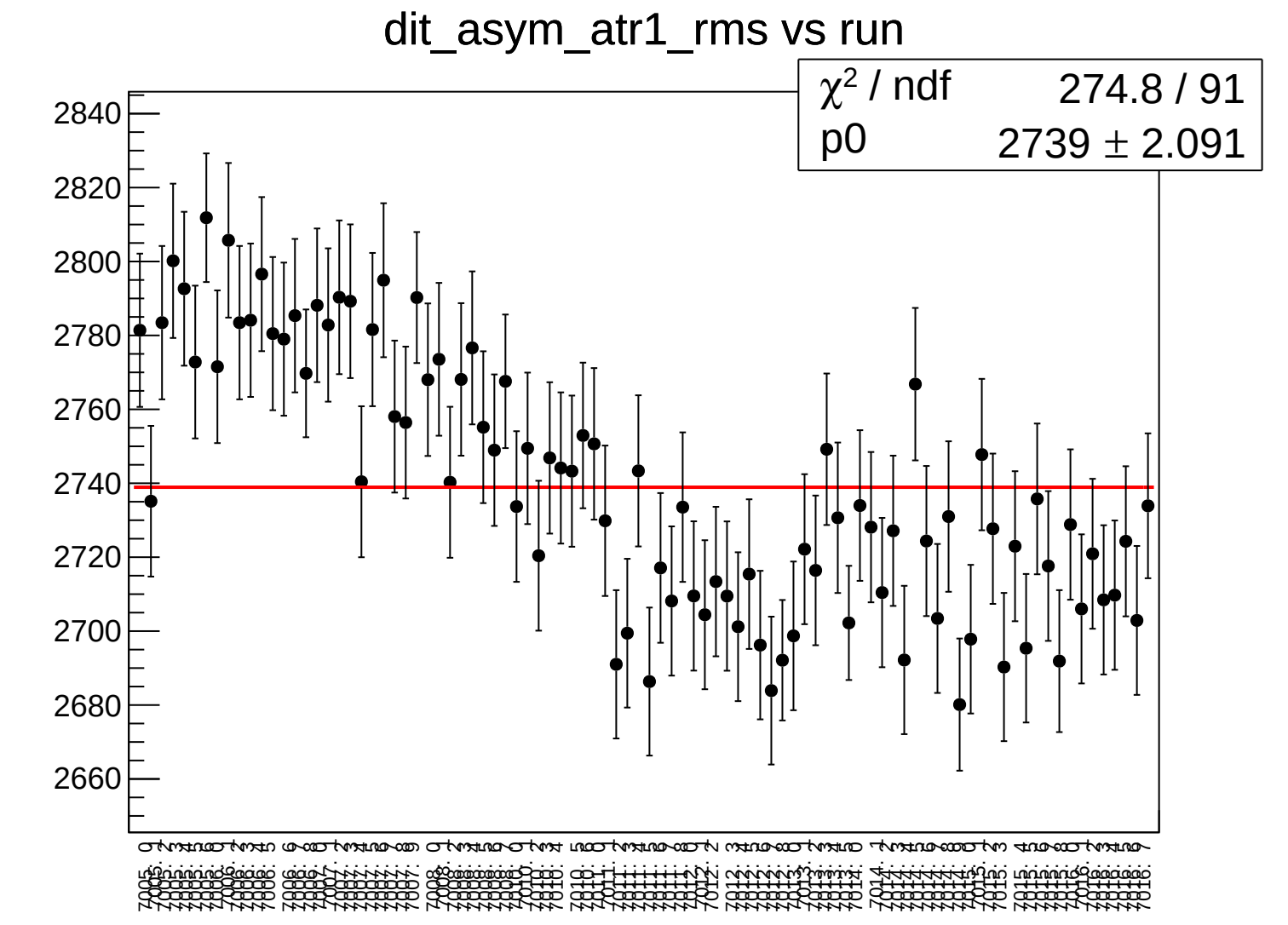

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 74.27 / 91
p0 −1946 ± 749
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −86.37
Std Dev 0
2
1
0
−1
−2

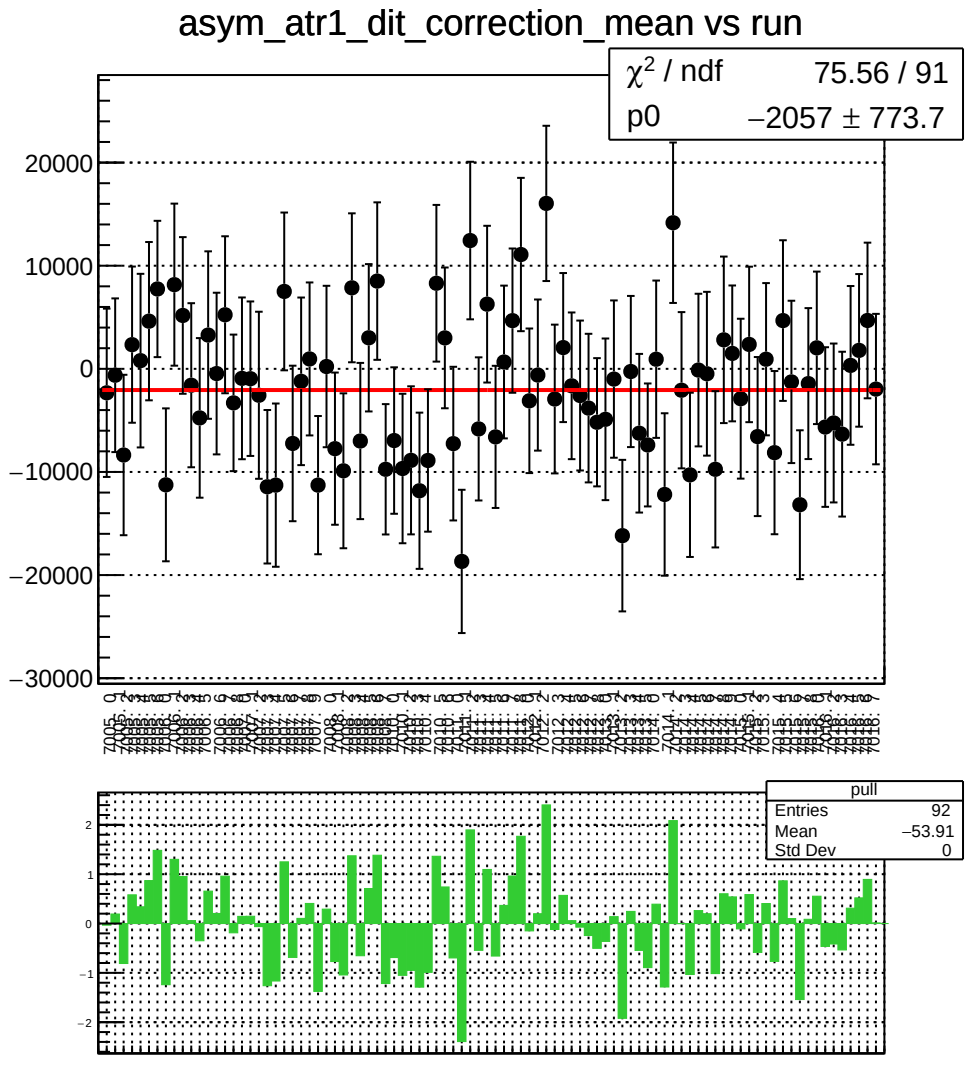

pull1D
Entries 92
Mean 0.008259
Std Dev 0.8985
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

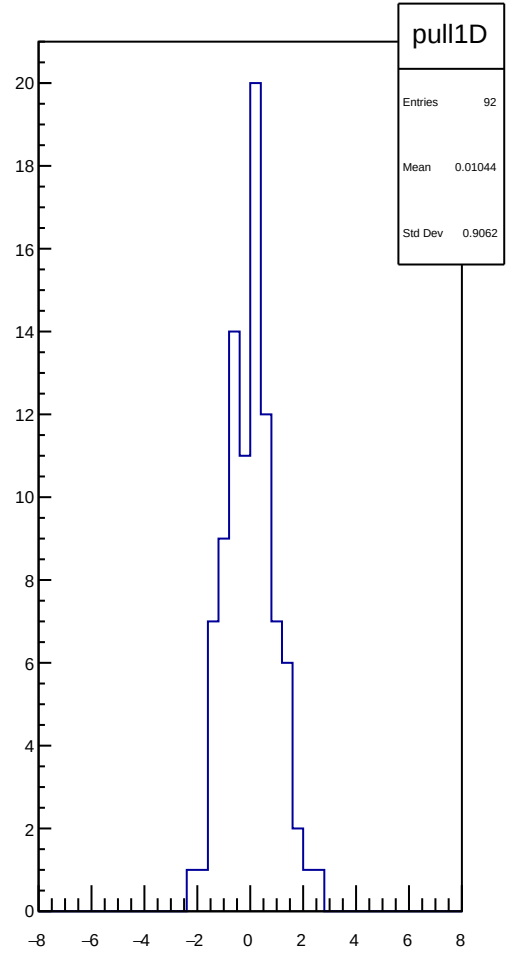

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 6754 / 91
p0 692.3 ± 0.5297
800
750
700
650
600


dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 102.1 / 91
p0 1502 ± 2958
100
50
0
−50
−100
pull
Entries 92
Mean −35.83
Std Dev 0
2
1
0
−1
−2

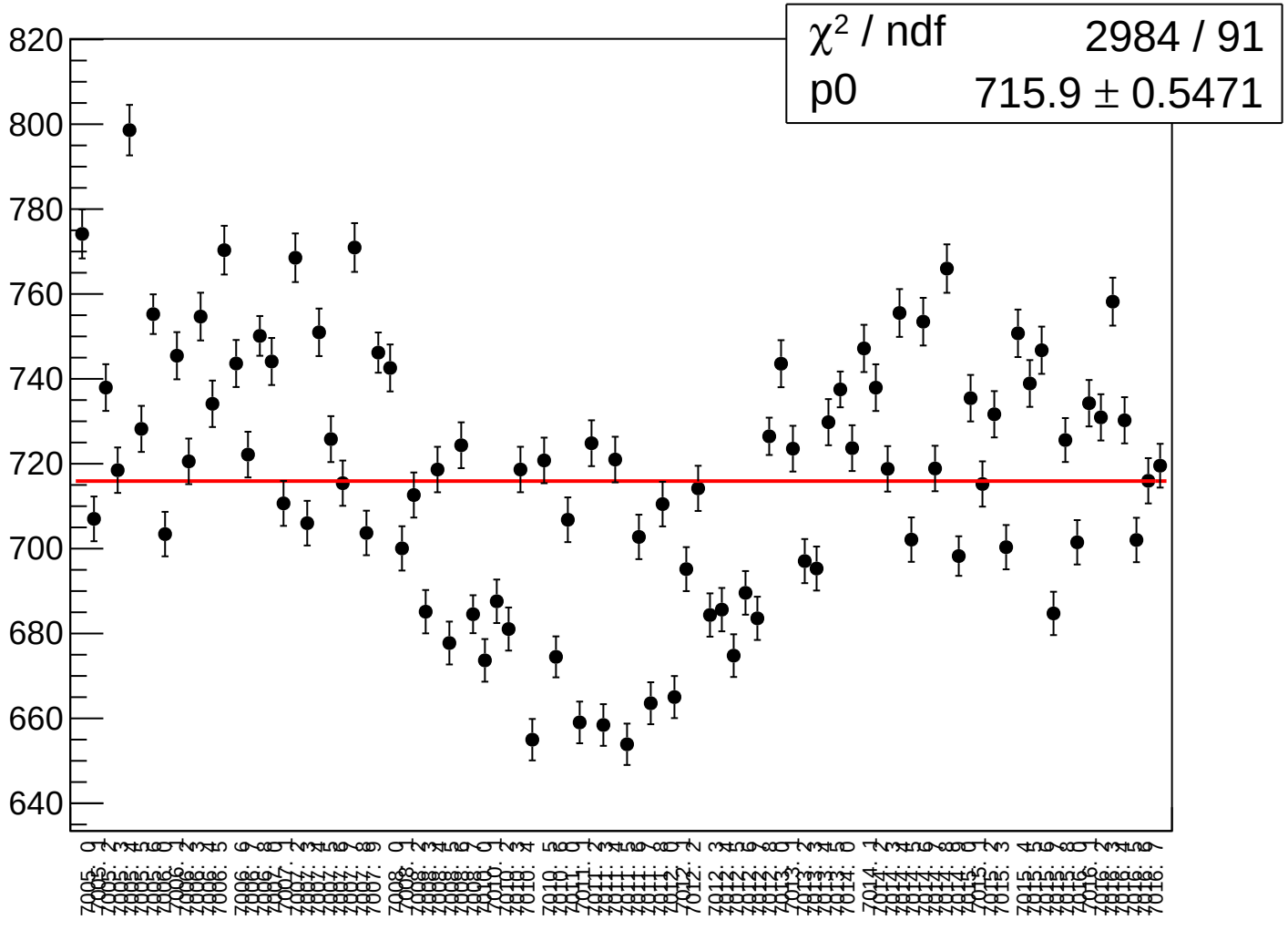

pull1D
Entries 92
Mean −0.011
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

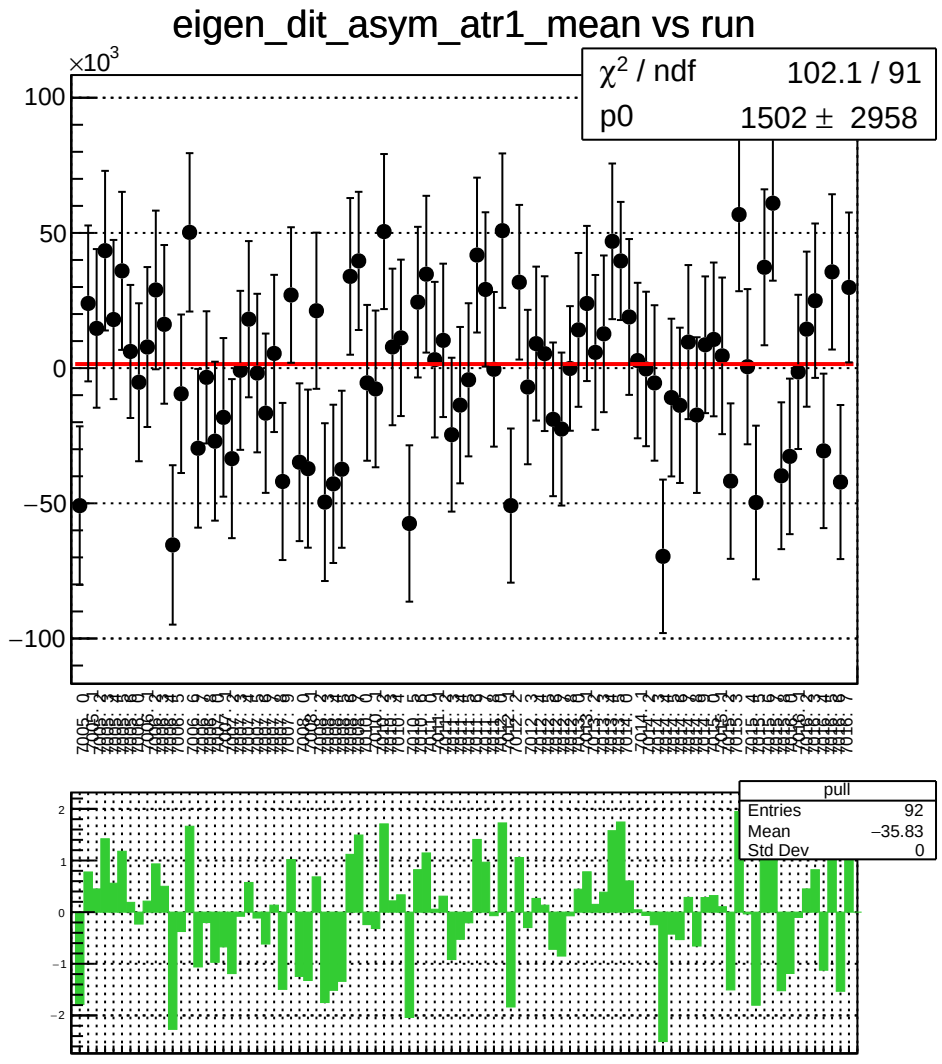

dit_asym_atr1_rms vs run
χ² / ndf 274.8 / 91
p0 2739 ± 2.091
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660

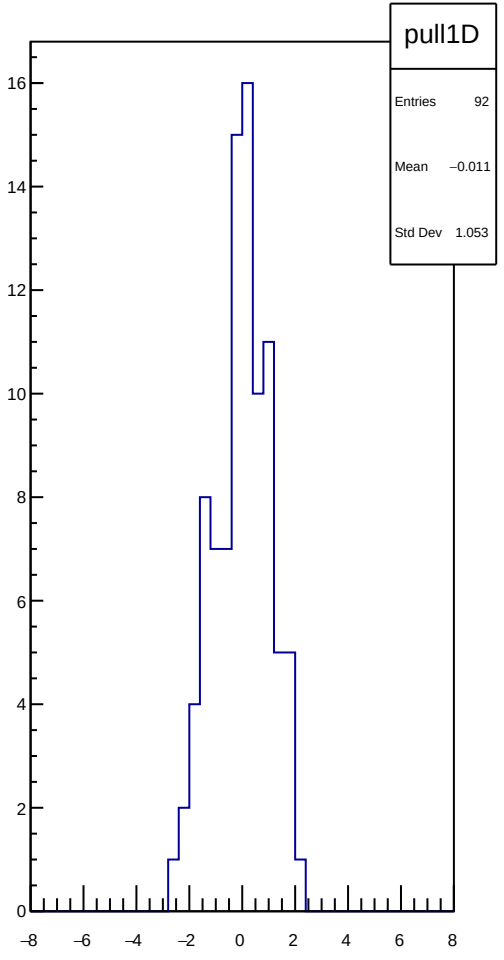

asym_atr1_dit_correction_mean vs run
χ² / ndf 75.56 / 91
p0 −2057 ± 773.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −53.91
Std Dev 0
2
1
0
−1
−2

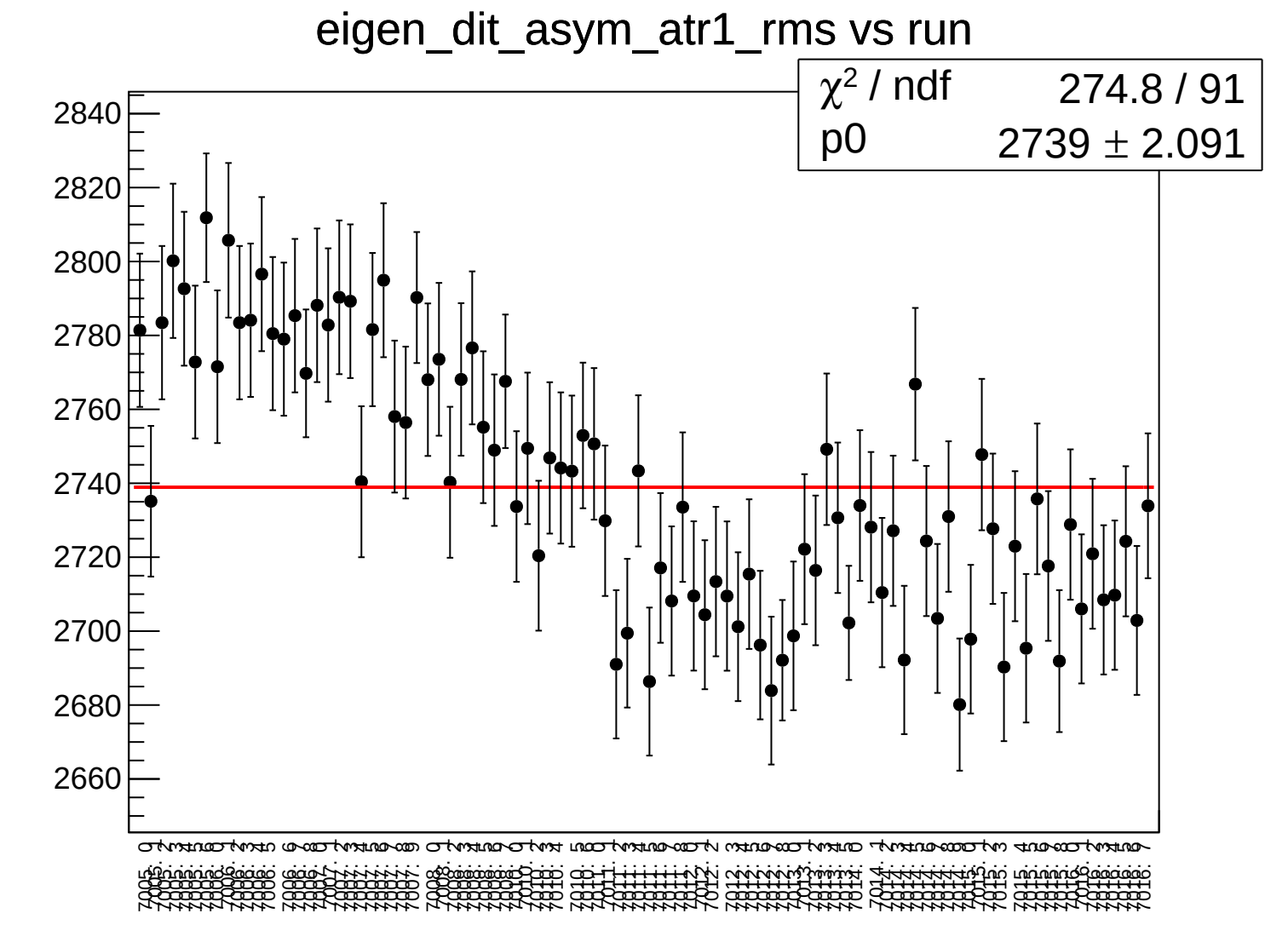

pull1D
Entries 92
Mean 0.01044
Std Dev 0.9062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

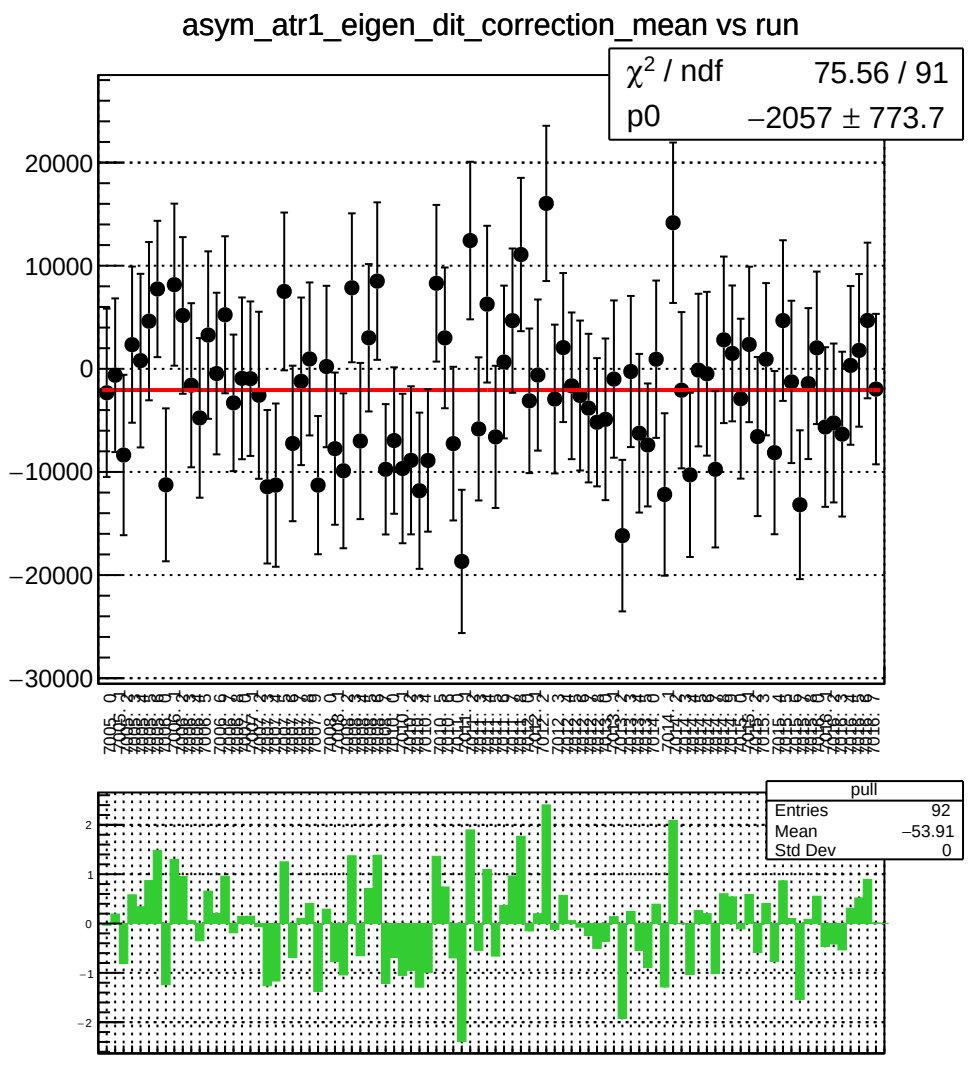
# asym_atr1_dit_correction_rms vs run

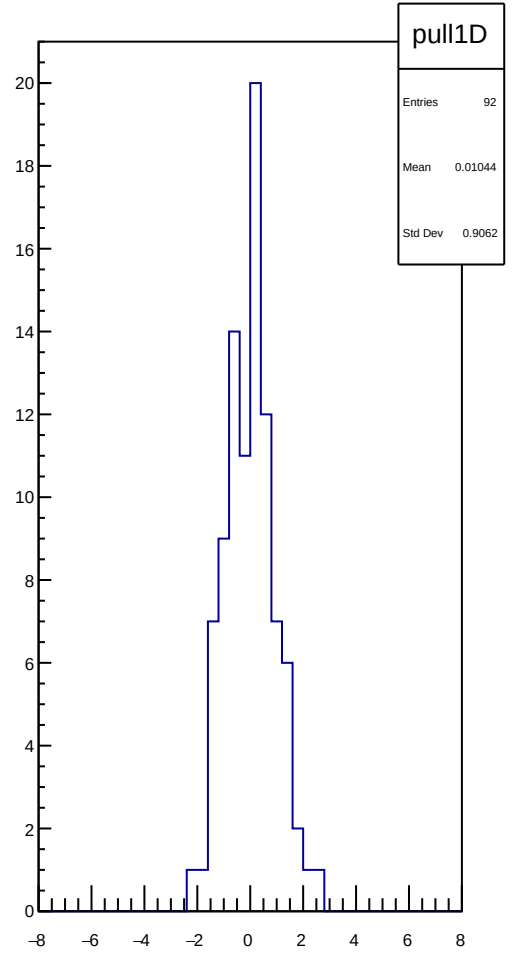


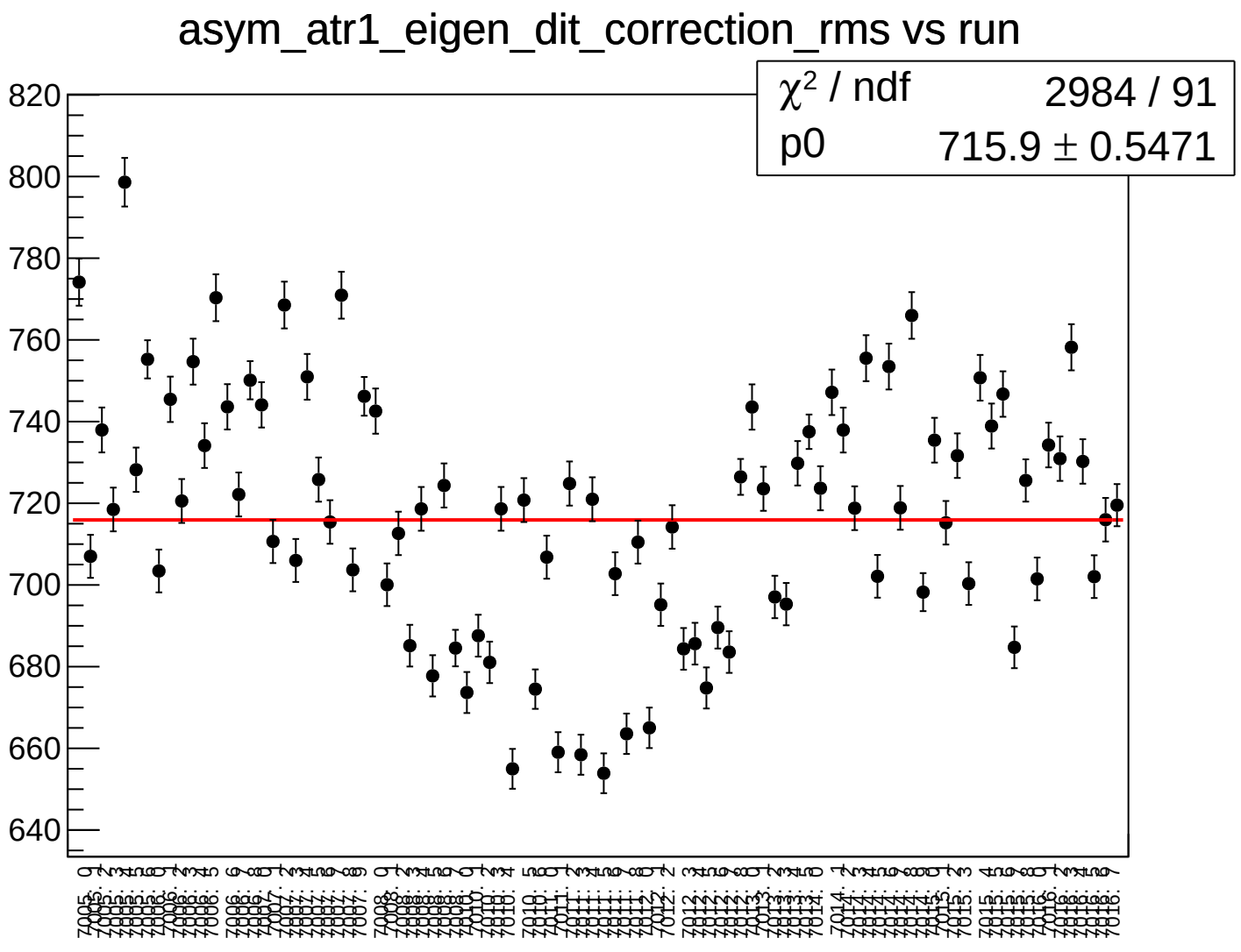

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 102.1 / 91
p0 1502 ± 2958
100
50
0
−50
−100
pull
Entries 92
Mean −35.83
Std Dev 0
2
1
0
−1
−2

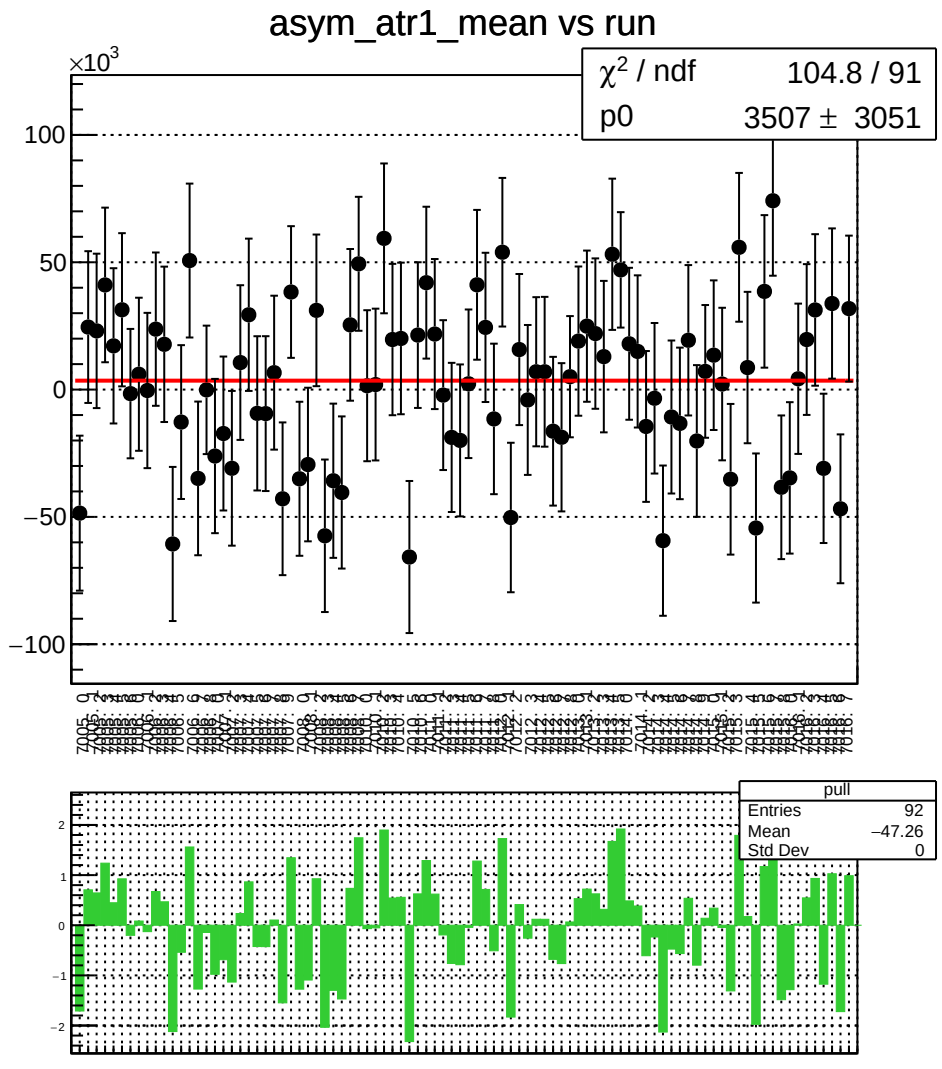

pull1D
Entries 92
Mean −0.011
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

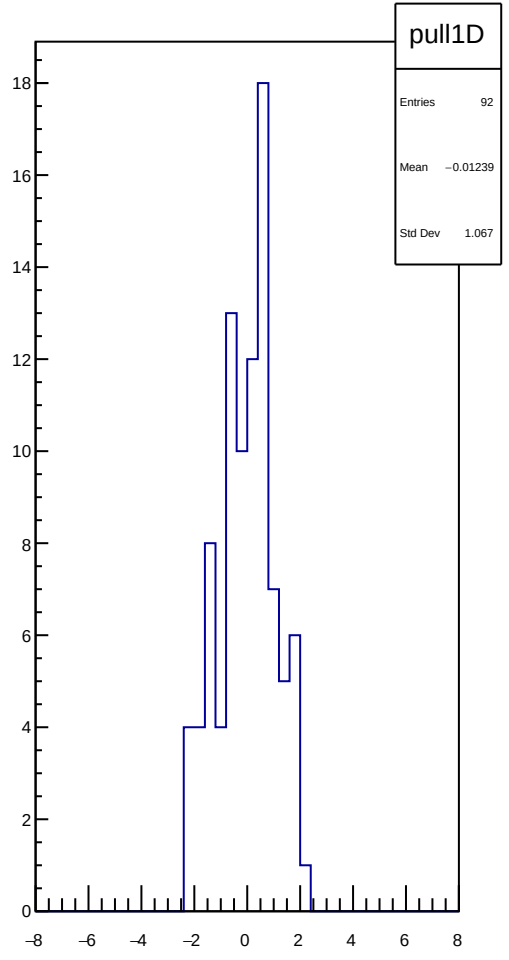

eigen_dit_asym_atr1_rms vs run
$\chi^2$ / ndf 274.8 / 91
p0 2739 ± 2.091
2840
2820
2800
2780
2760
2740
2720
2700
2680
2660

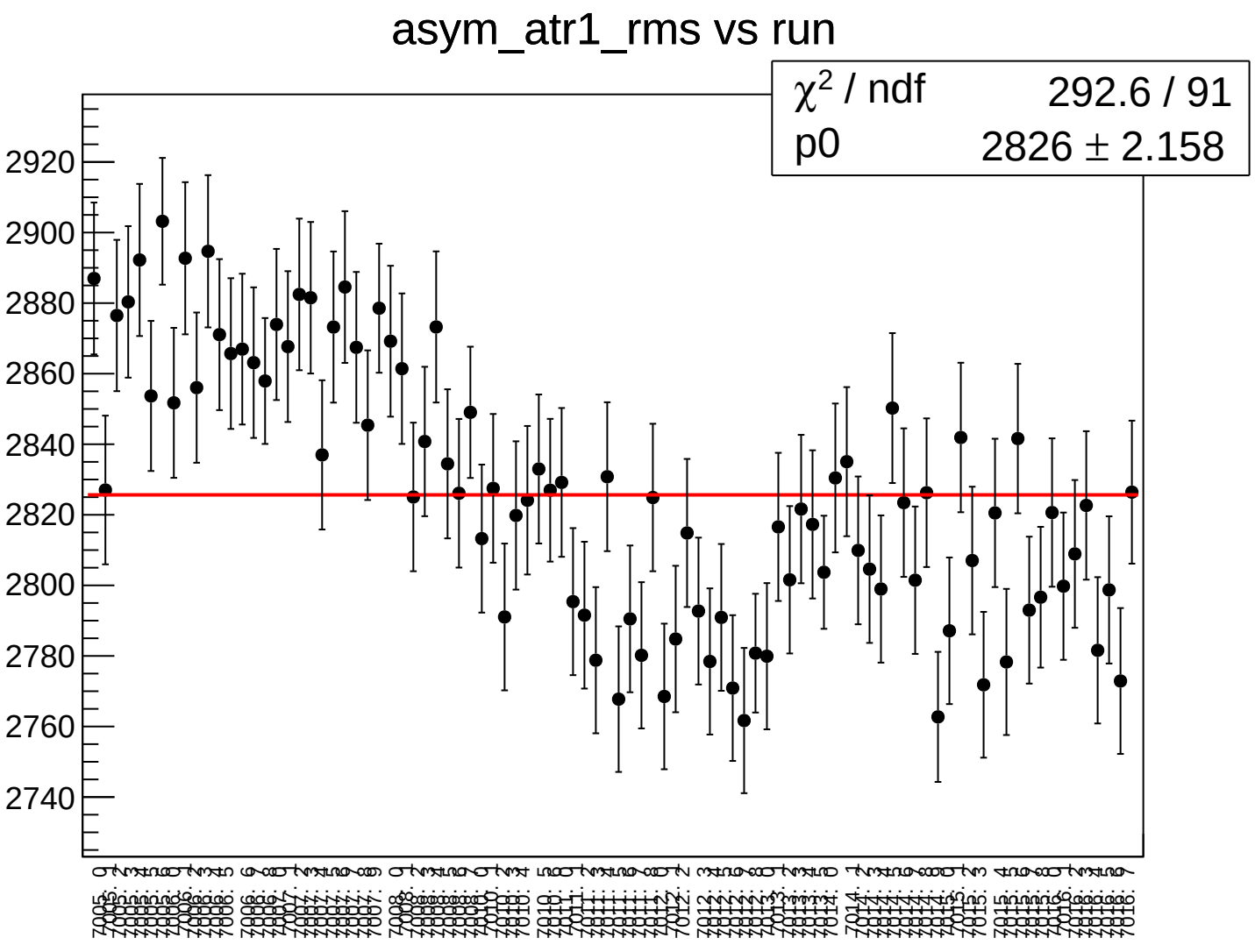

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 75.56 / 91
p0 −2057 ± 773.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −53.91
Std Dev 0
2
1
0
−1
−2

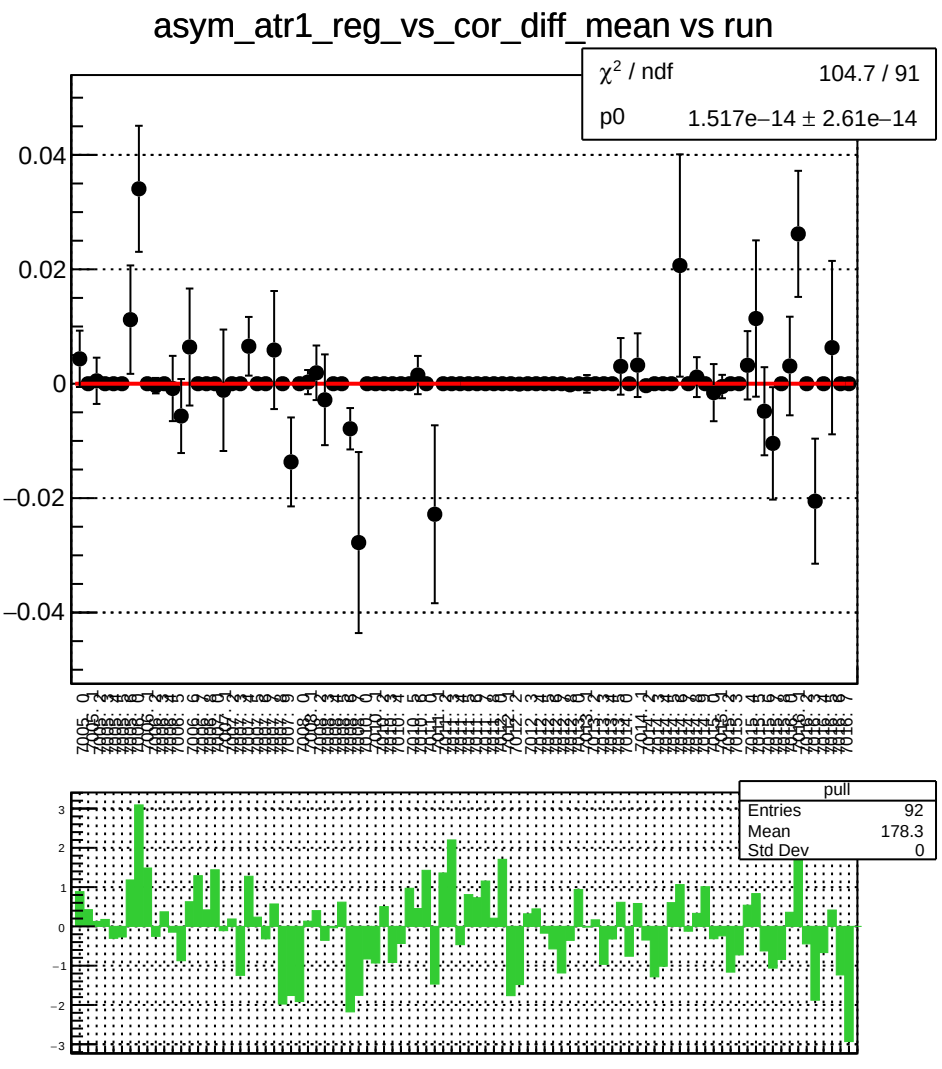

pull1D
Entries 92
Mean 0.01044
Std Dev 0.9062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

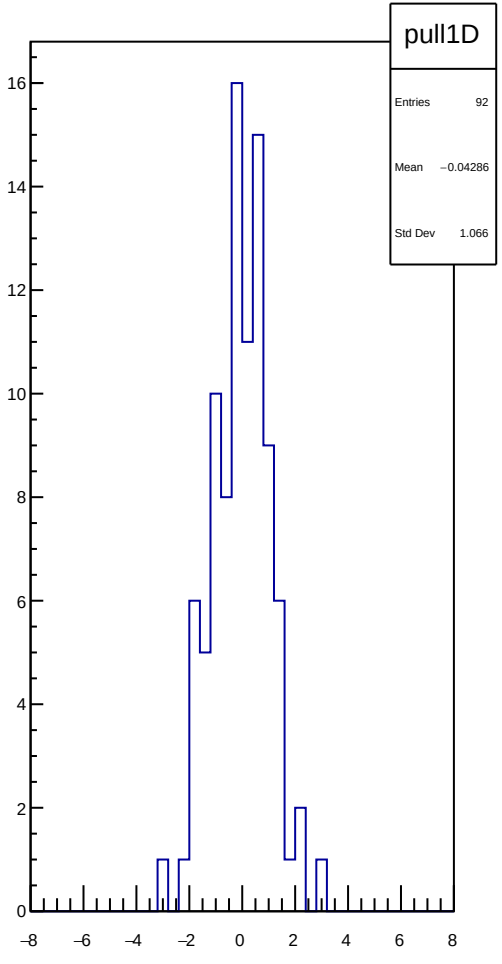

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2984 / 91
p0 715.9 ± 0.5471
820
800
780
760
740
720
700
680
660
640

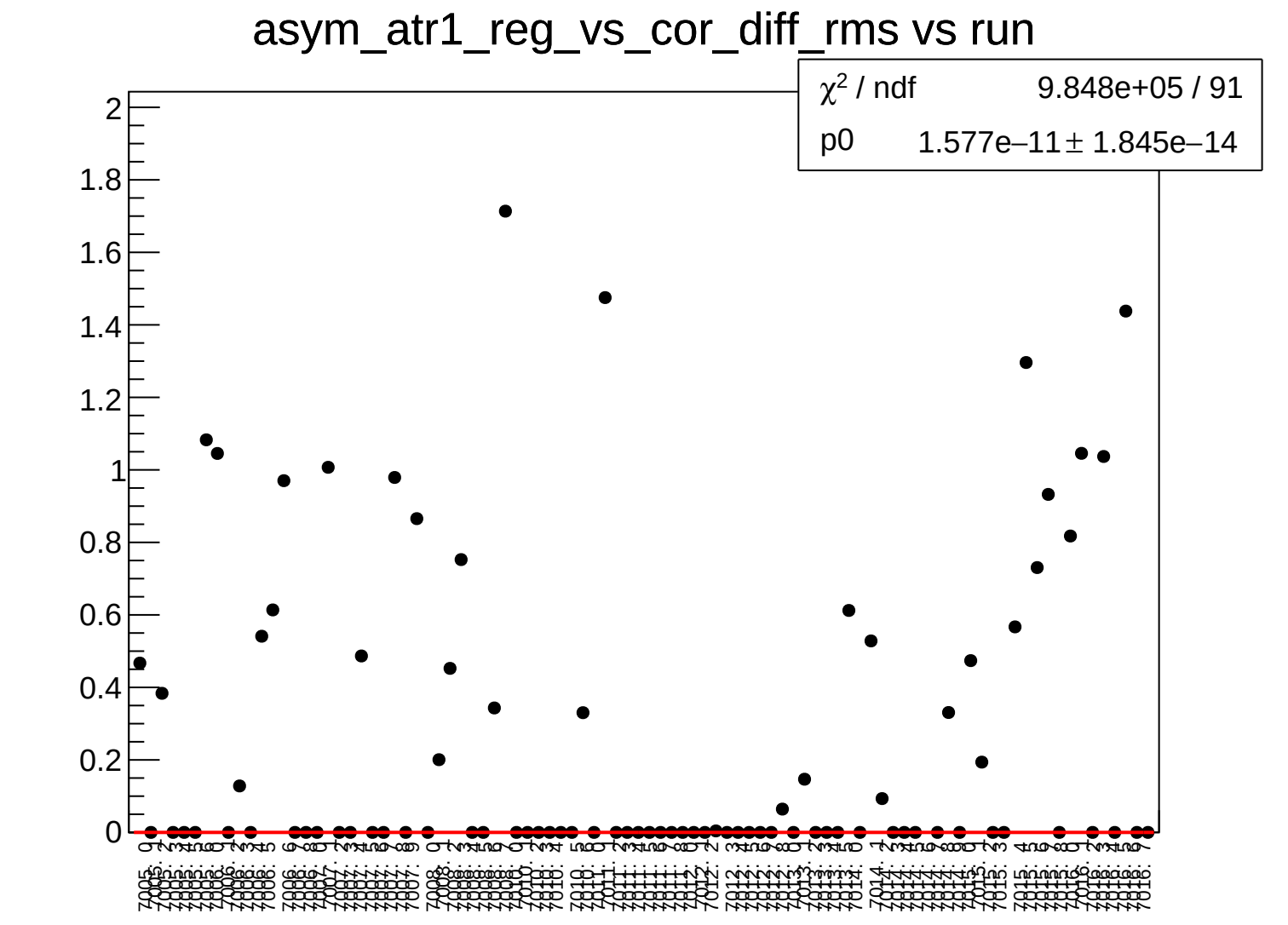

asym_atr1_mean vs run
×10^3
χ² / ndf 104.8 / 91
p0 3507 ± 3051
100
50
0
−50
−100
pull
Entries 92
Mean −47.26
Std Dev 0
2
1
0
−1
−2

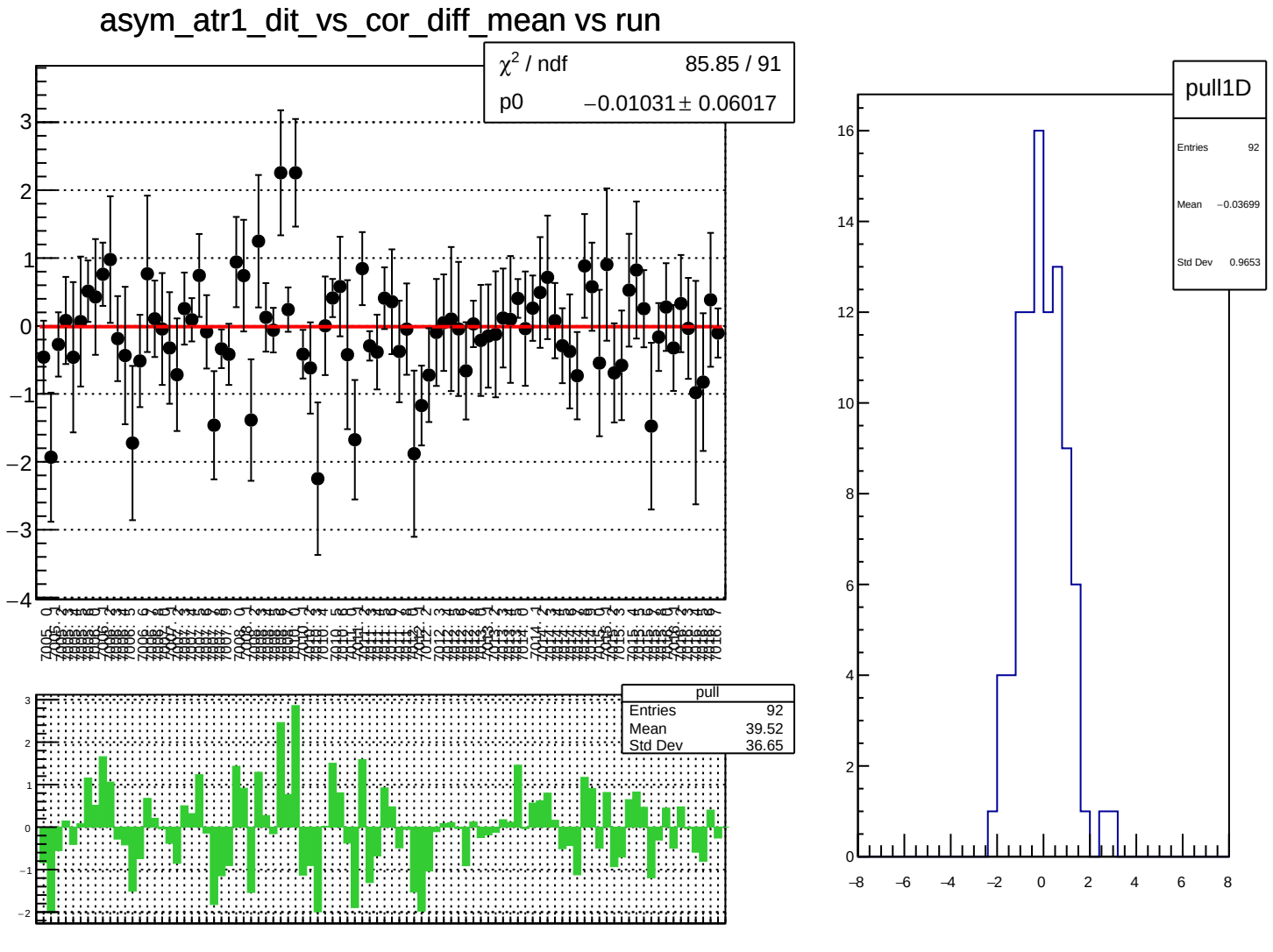

pull1D
Entries 92
Mean −0.01239
Std Dev 1.067
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

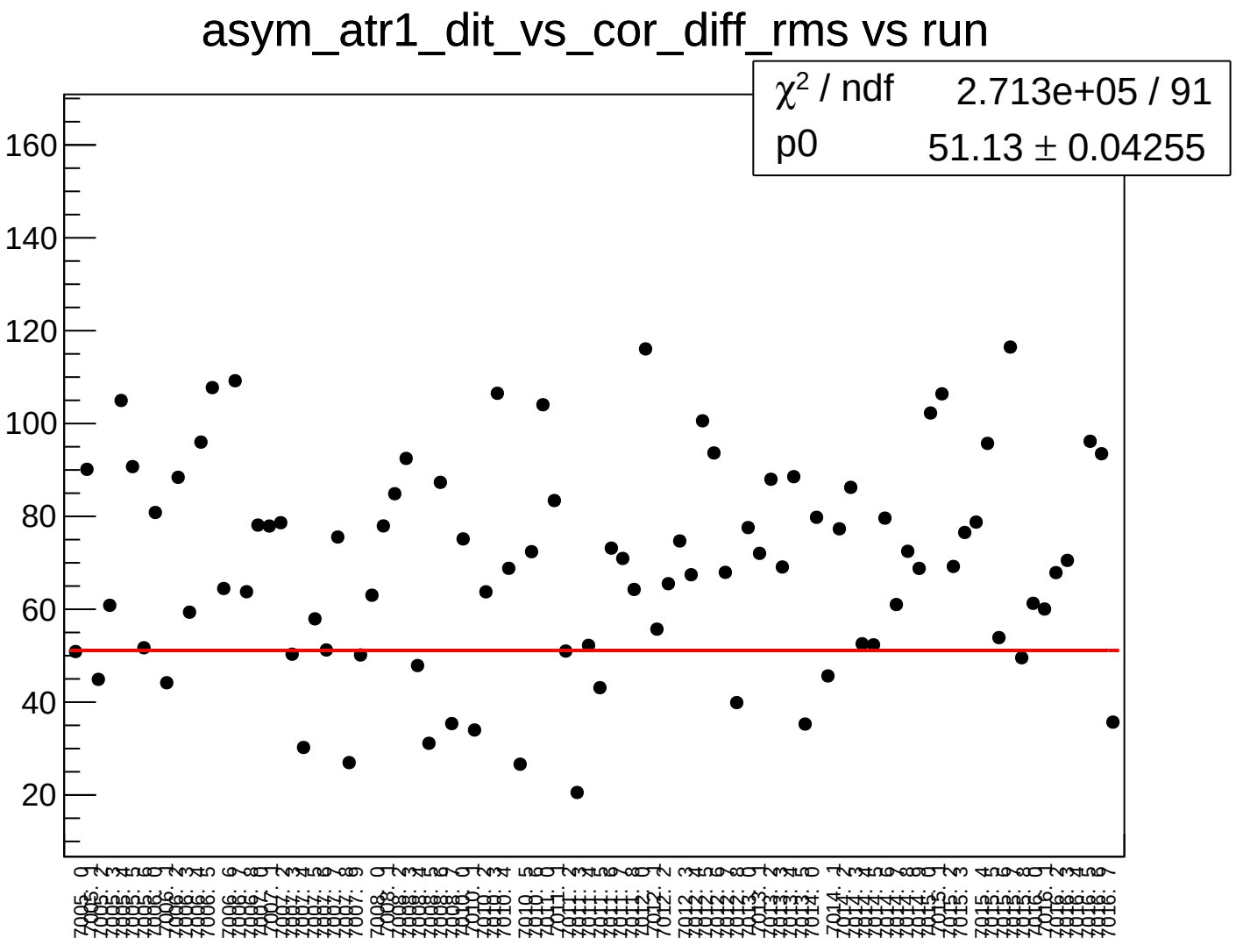

asym_atr1_rms vs run
χ² / ndf 292.6 / 91
p0 2826 ± 2.158
2920
2900
2880
2860
2840
2820
2800
2780
2760
2740

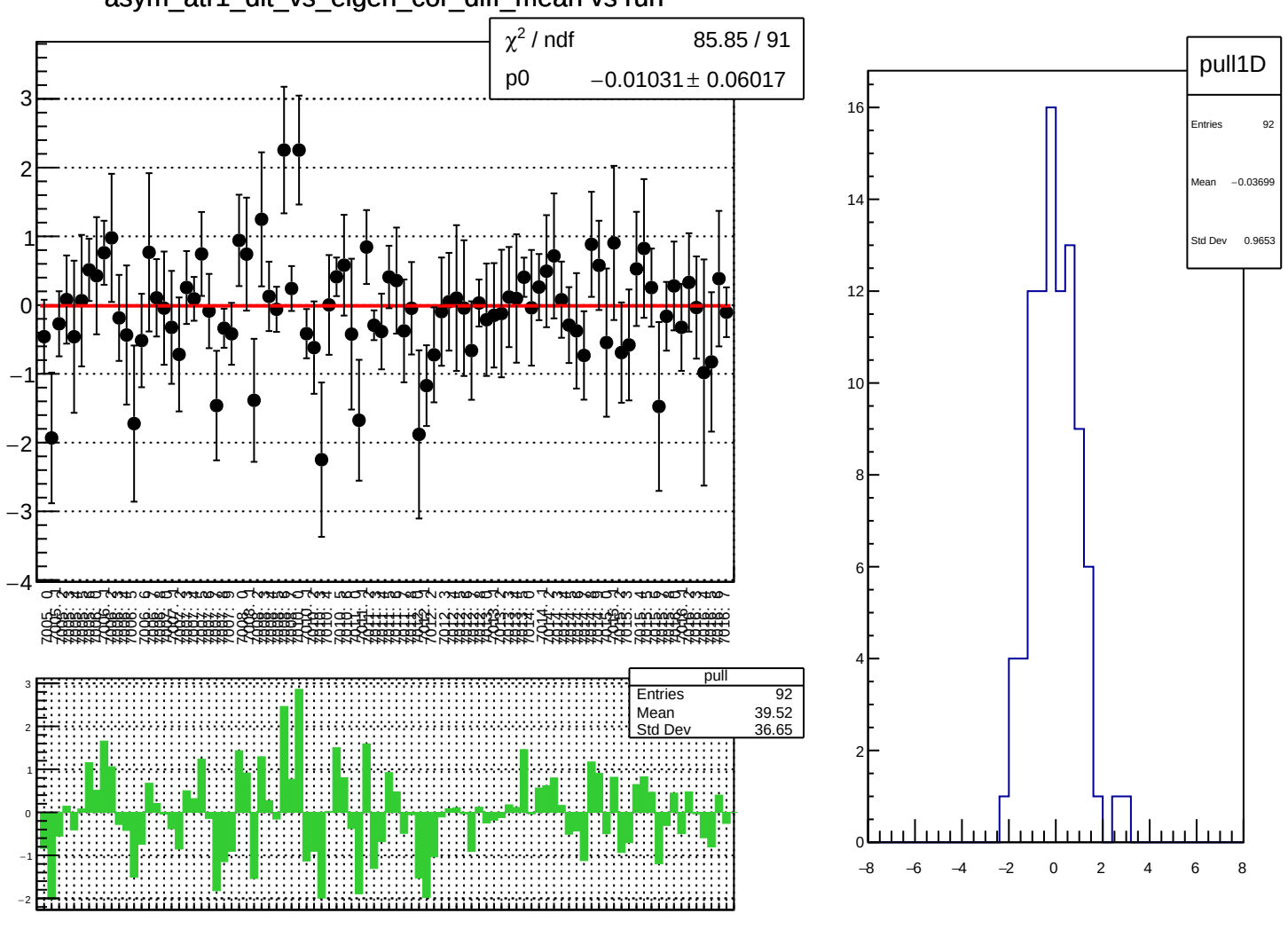

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 104.7 / 91
p0 1.517e−14 ± 2.61e−14
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean 178.3
Std Dev 0
3
2
1
0
−1
−2
−3

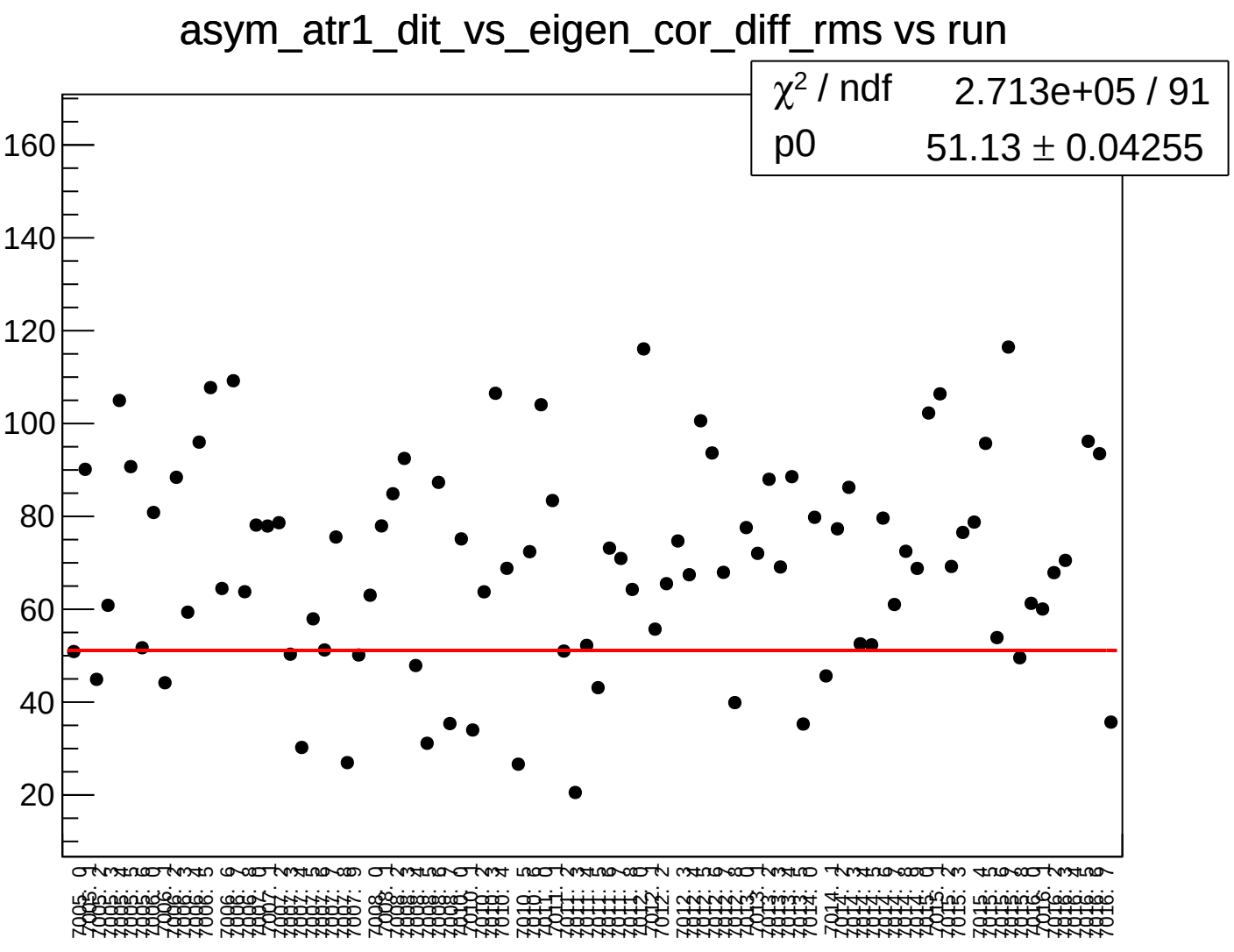

pull1D
Entries 92
Mean −0.04286
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

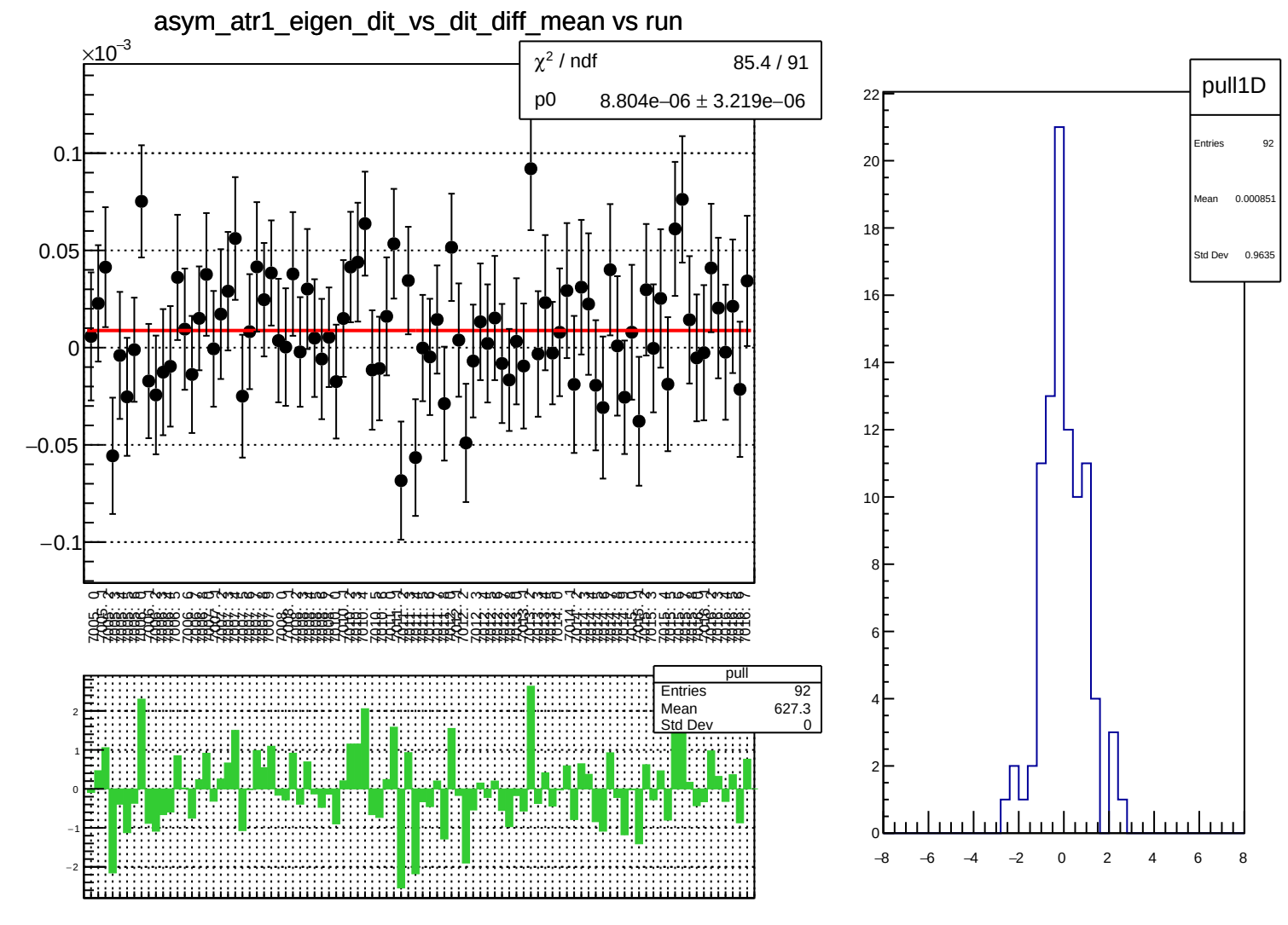

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.848e+05 / 91
p0 1.577e−11 ± 1.845e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

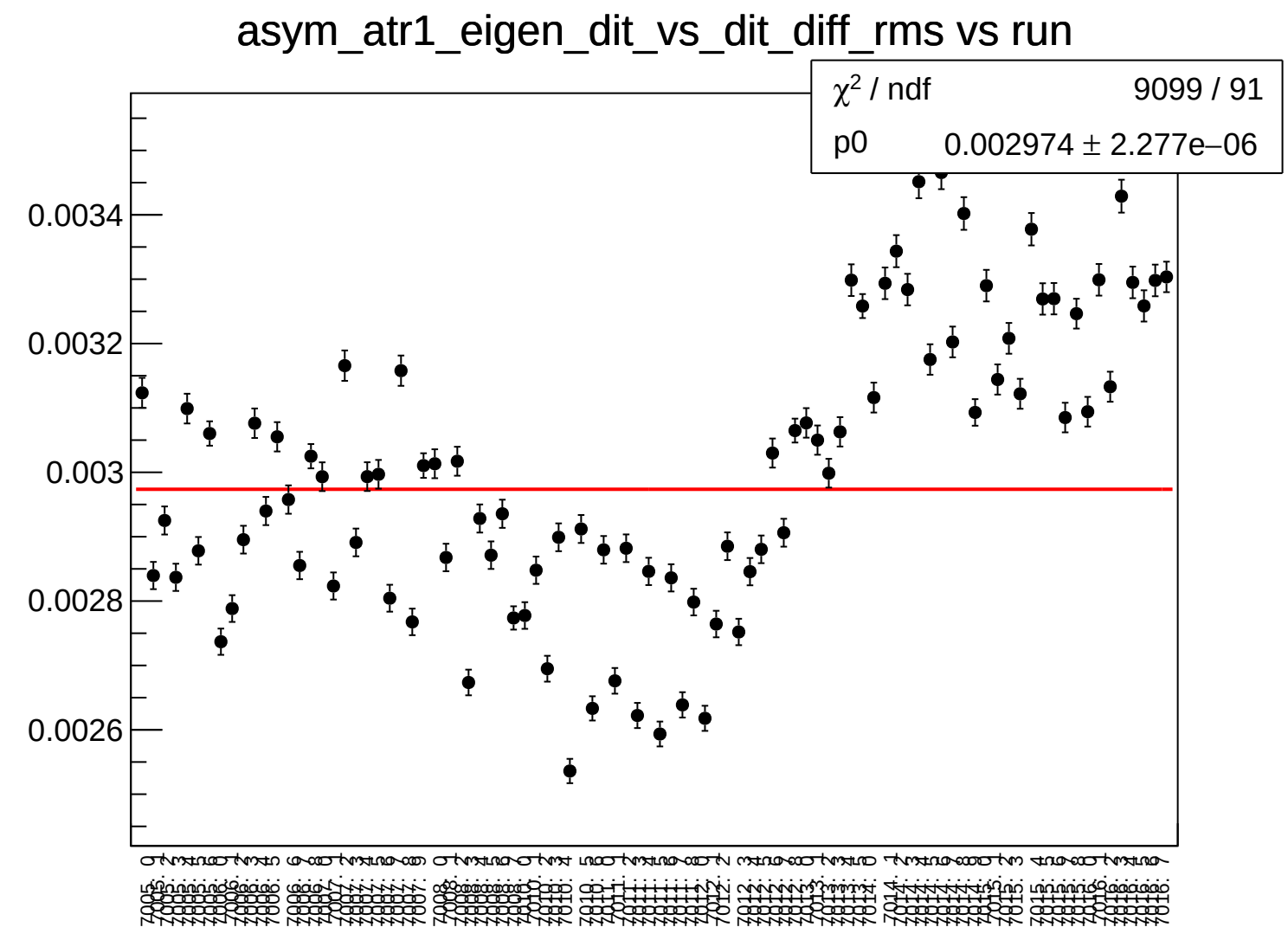

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 85.85 / 91
p0 −0.01031 ± 0.06017
pull
Entries 92
Mean 39.52
Std Dev 36.65
pull1D
Entries 92
Mean −0.03699
Std Dev 0.9653

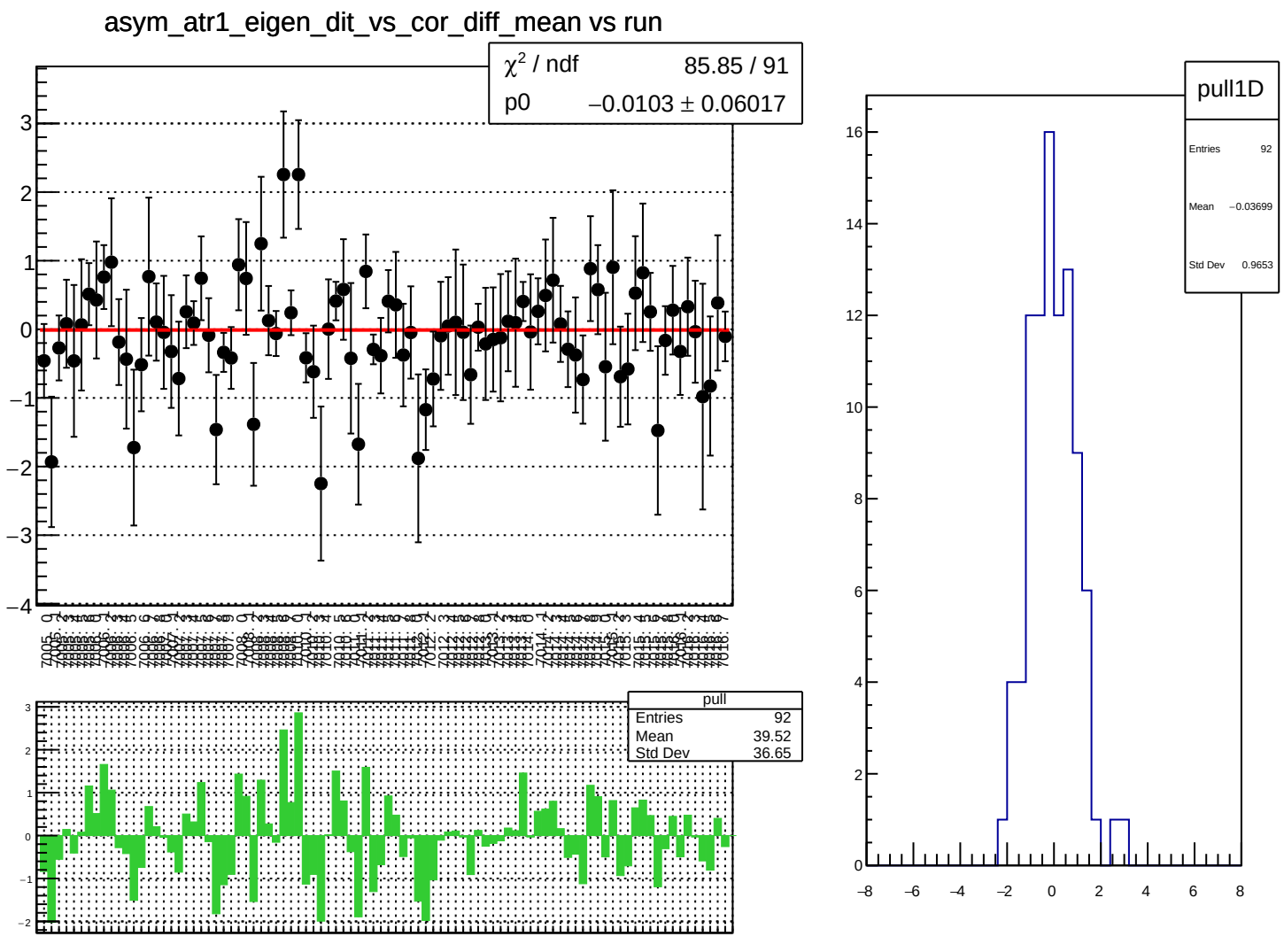

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.713e+05 / 91
p0 51.13 ± 0.04255
160
140
120
100
80
60
40
20

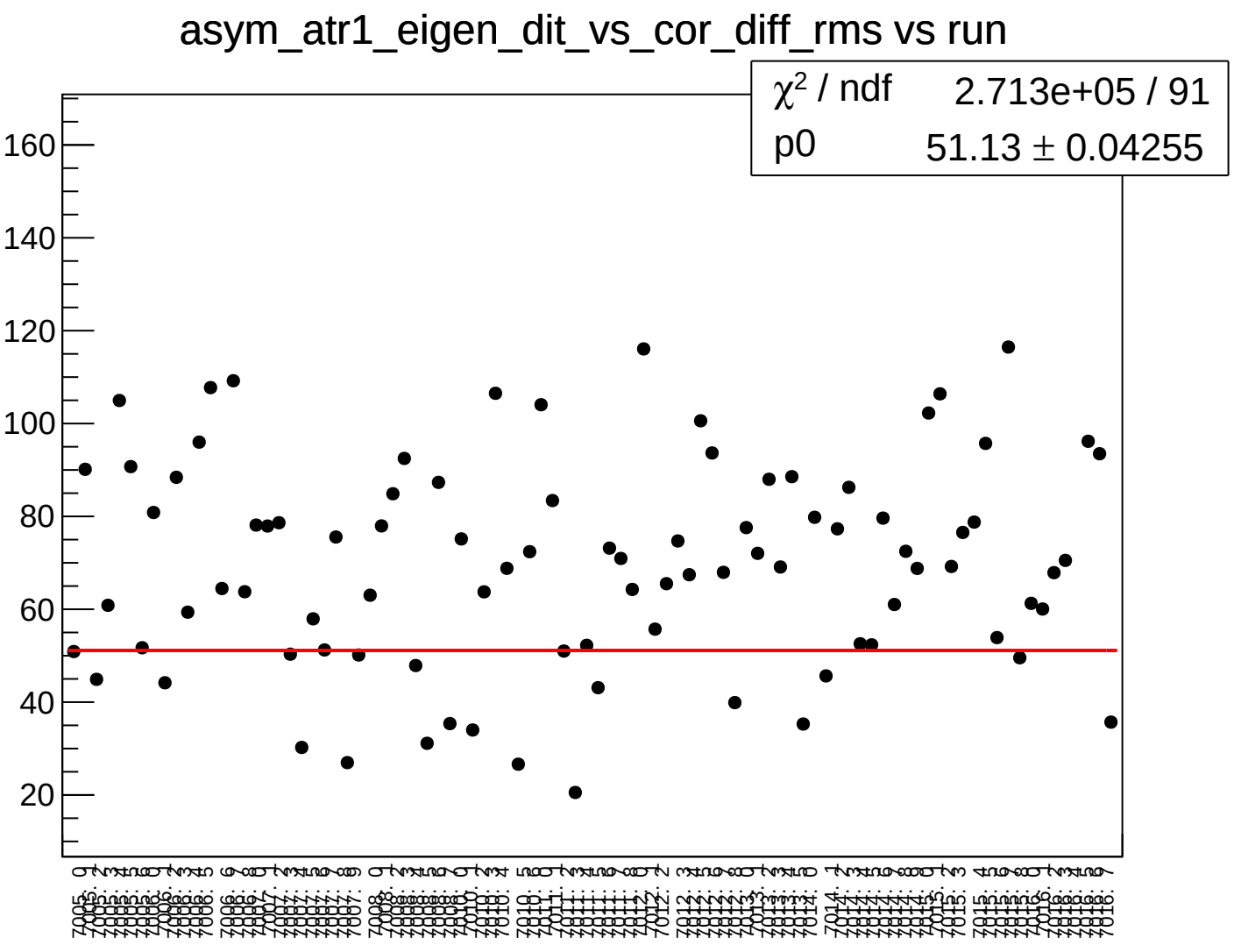

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.85 / 91
p0 −0.01031 ± 0.06017
pull
Entries 92
Mean 39.52
Std Dev 36.65
pull1D
Entries 92
Mean −0.03699
Std Dev 0.9653

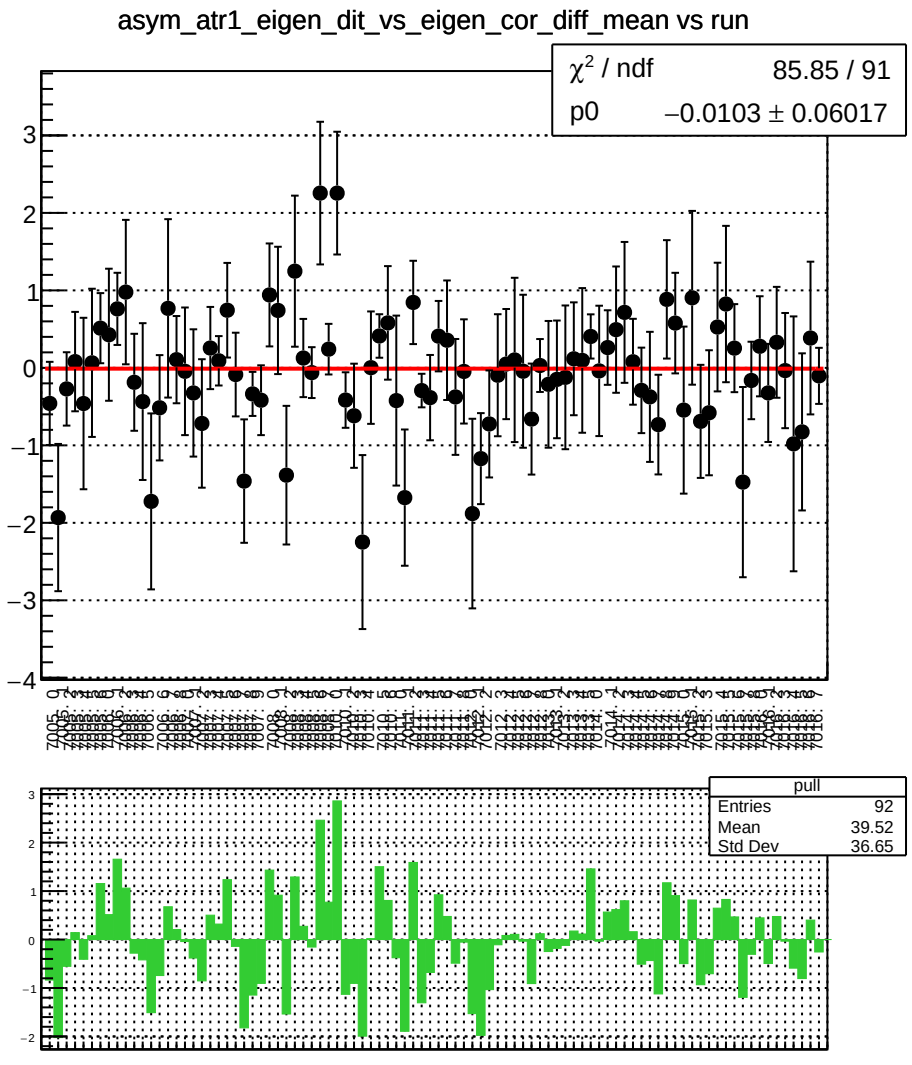

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.713e+05 / 91
p0 51.13 ± 0.04255
160
140
120
100
80
60
40
20

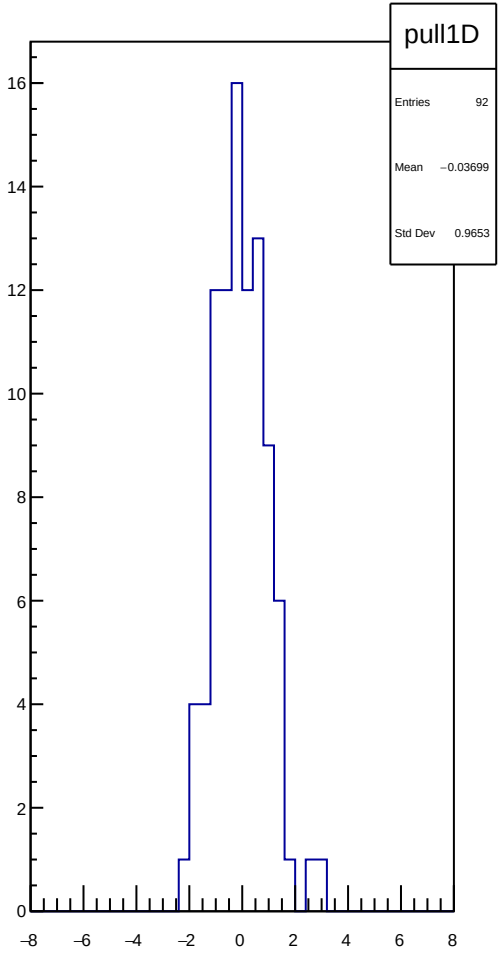

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.4 / 91
p0 8.804e−06 ± 3.219e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 627.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.000851
Std Dev 0.9635
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

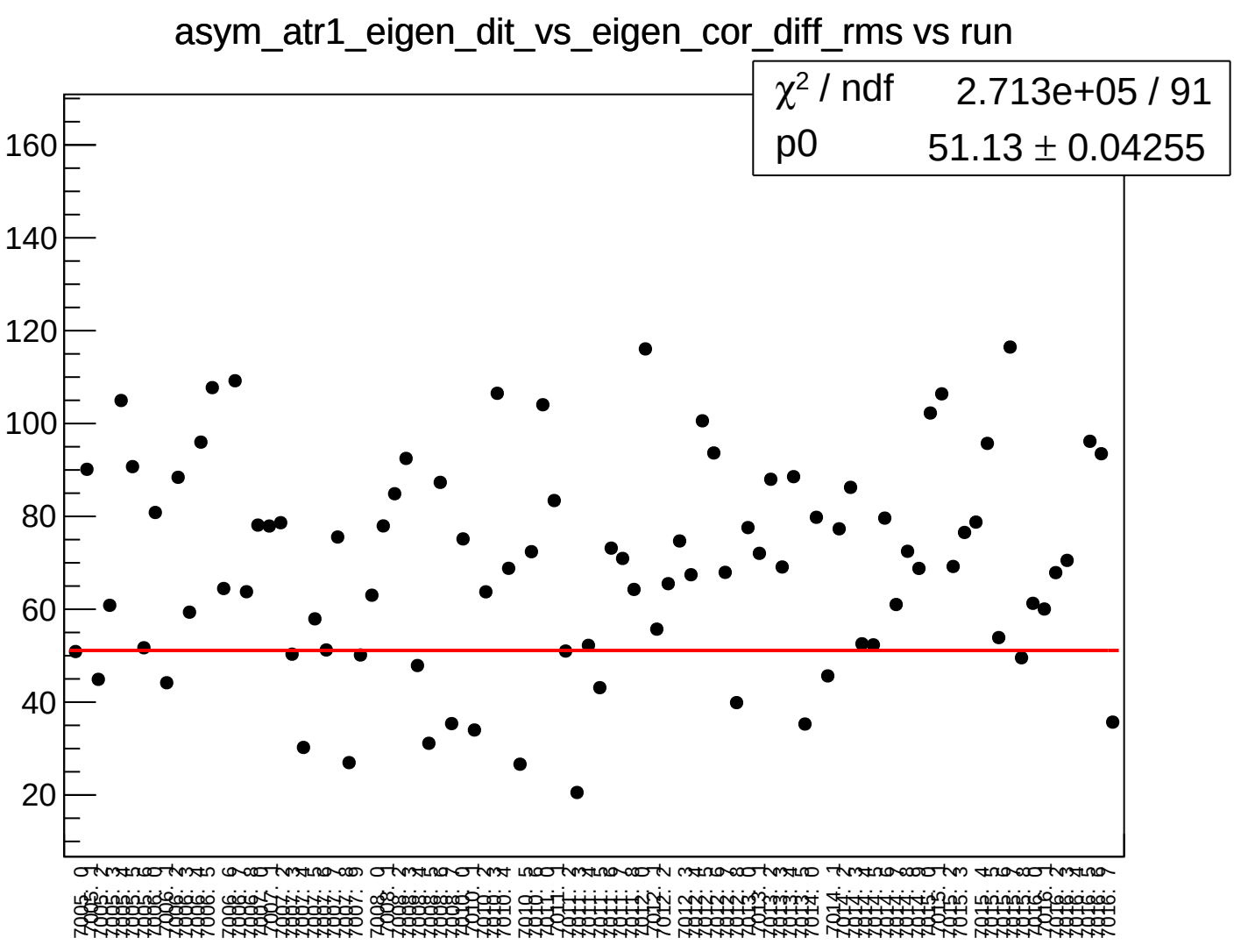

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9099 / 91
p0 0.002974 ± 2.277e−06
0.0034
0.0032
0.003
0.0028
0.0026

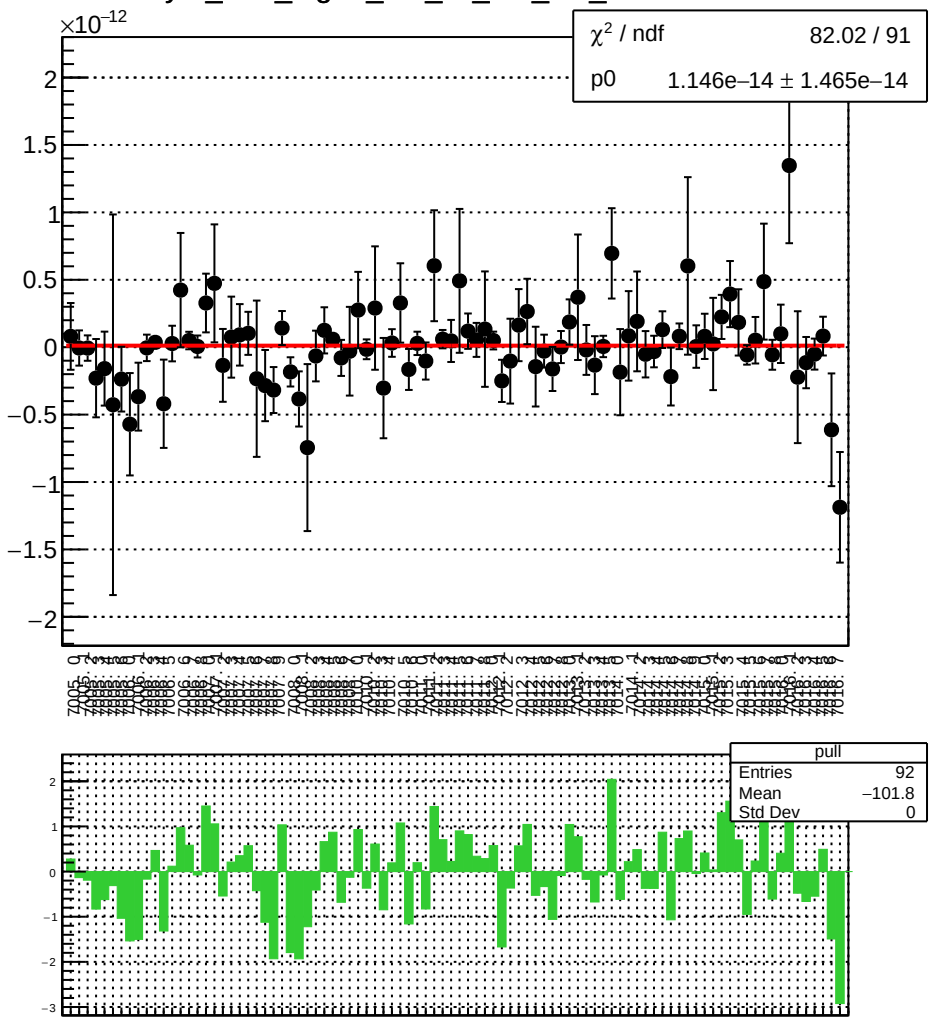

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.85 / 91
p0 −0.0103 ± 0.06017
pull
Entries 92
Mean 39.52
Std Dev 36.65
pull1D
Entries 92
Mean −0.03699
Std Dev 0.9653

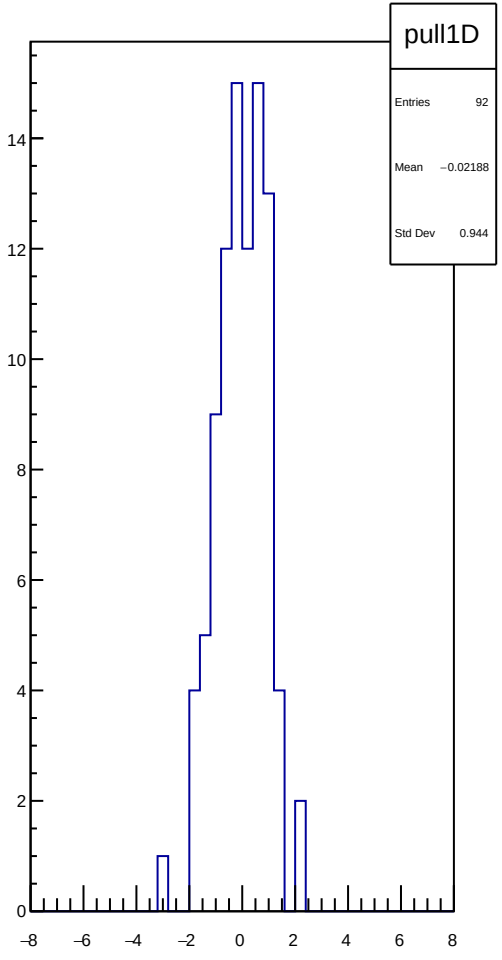

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.713e+05 / 91
p0 51.13 ± 0.04255
160
140
120
100
80
60
40
20

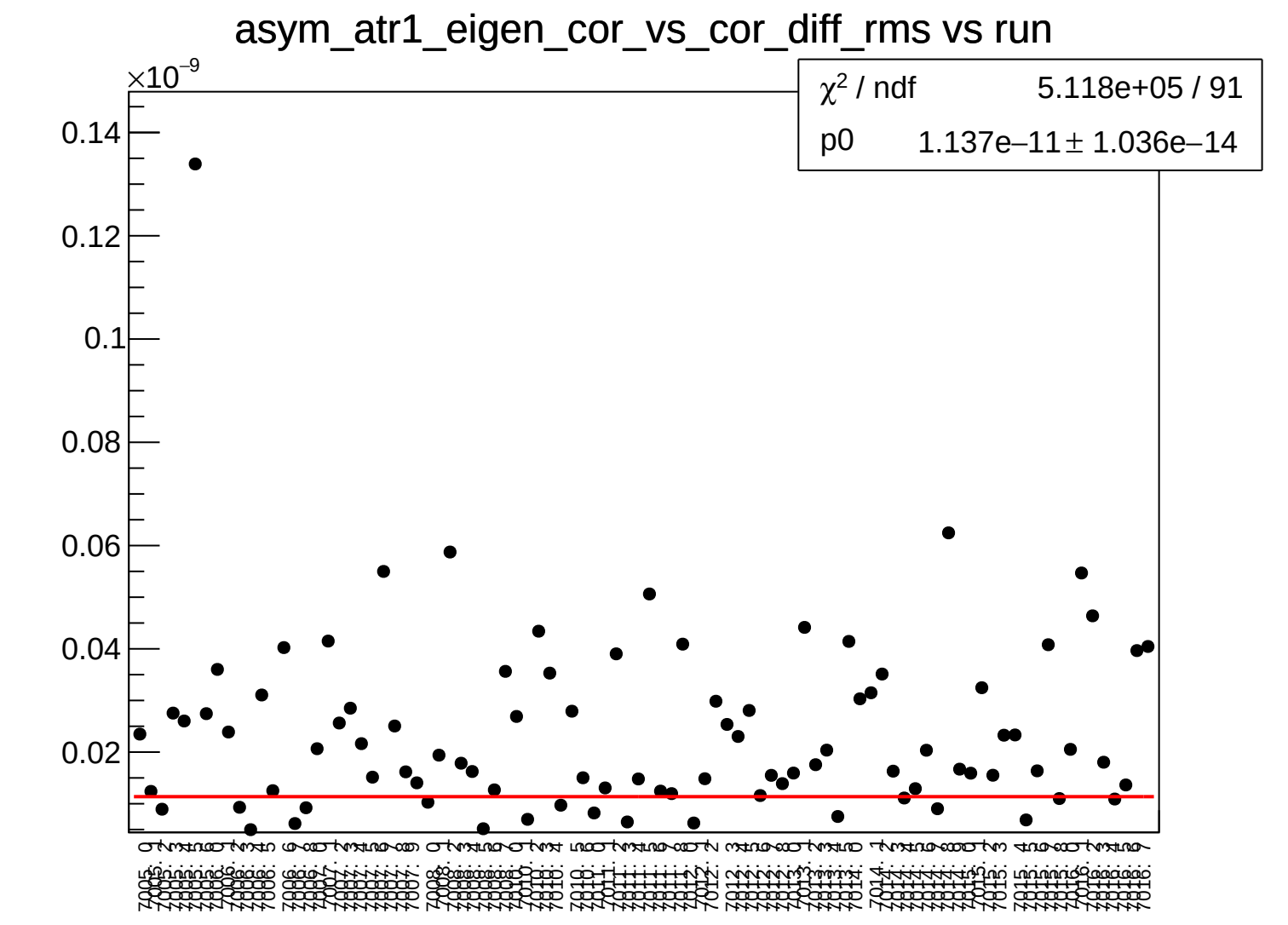

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.85 / 91
p0 −0.0103 ± 0.06017
pull
Entries 92
Mean 39.52
Std Dev 36.65

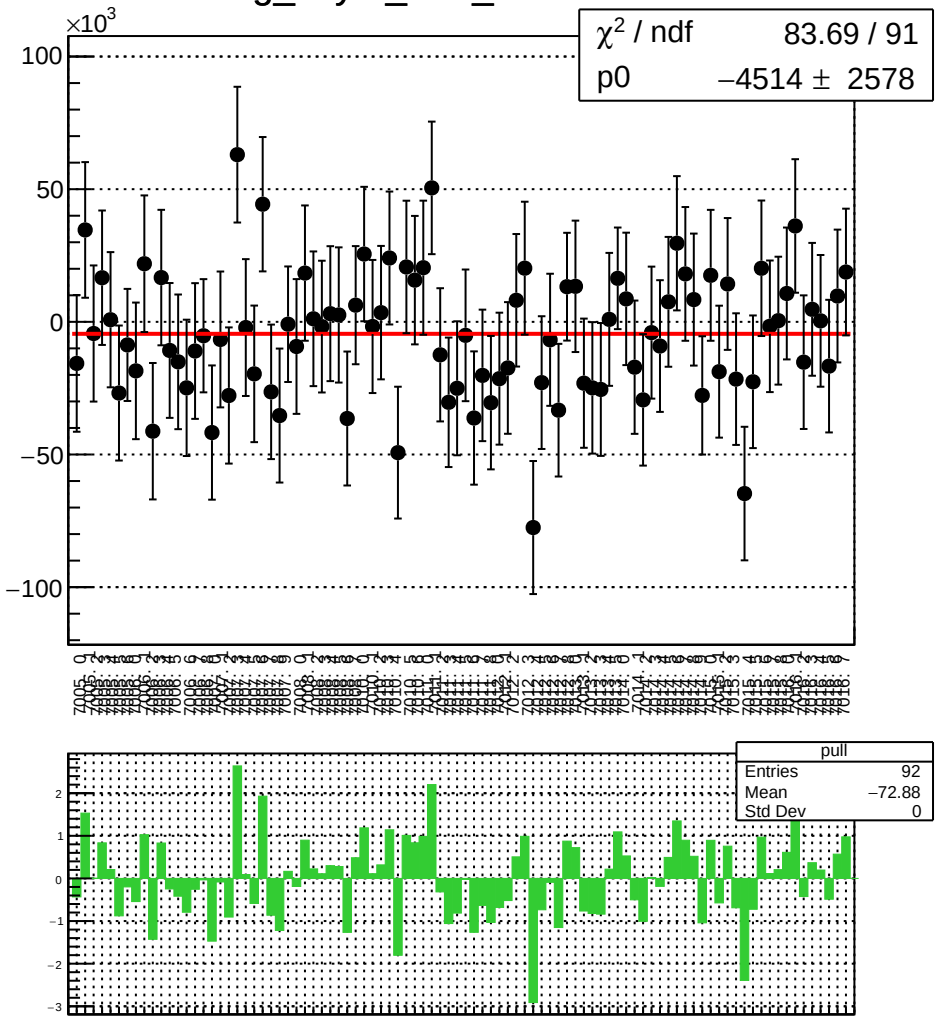

pull1D
Entries 92
Mean −0.03699
Std Dev 0.9653

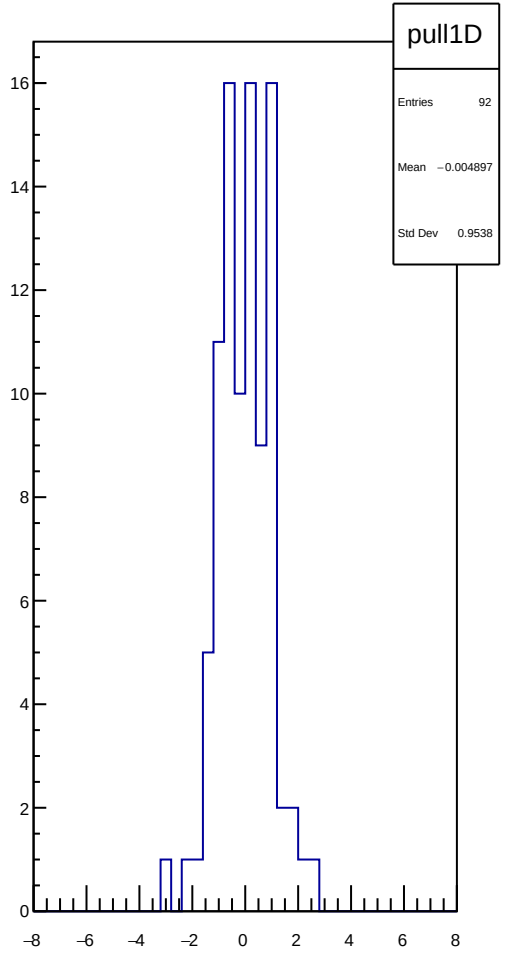

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.713e+05 / 91
p0 51.13 ± 0.04255
160
140
120
100
80
60
40
20

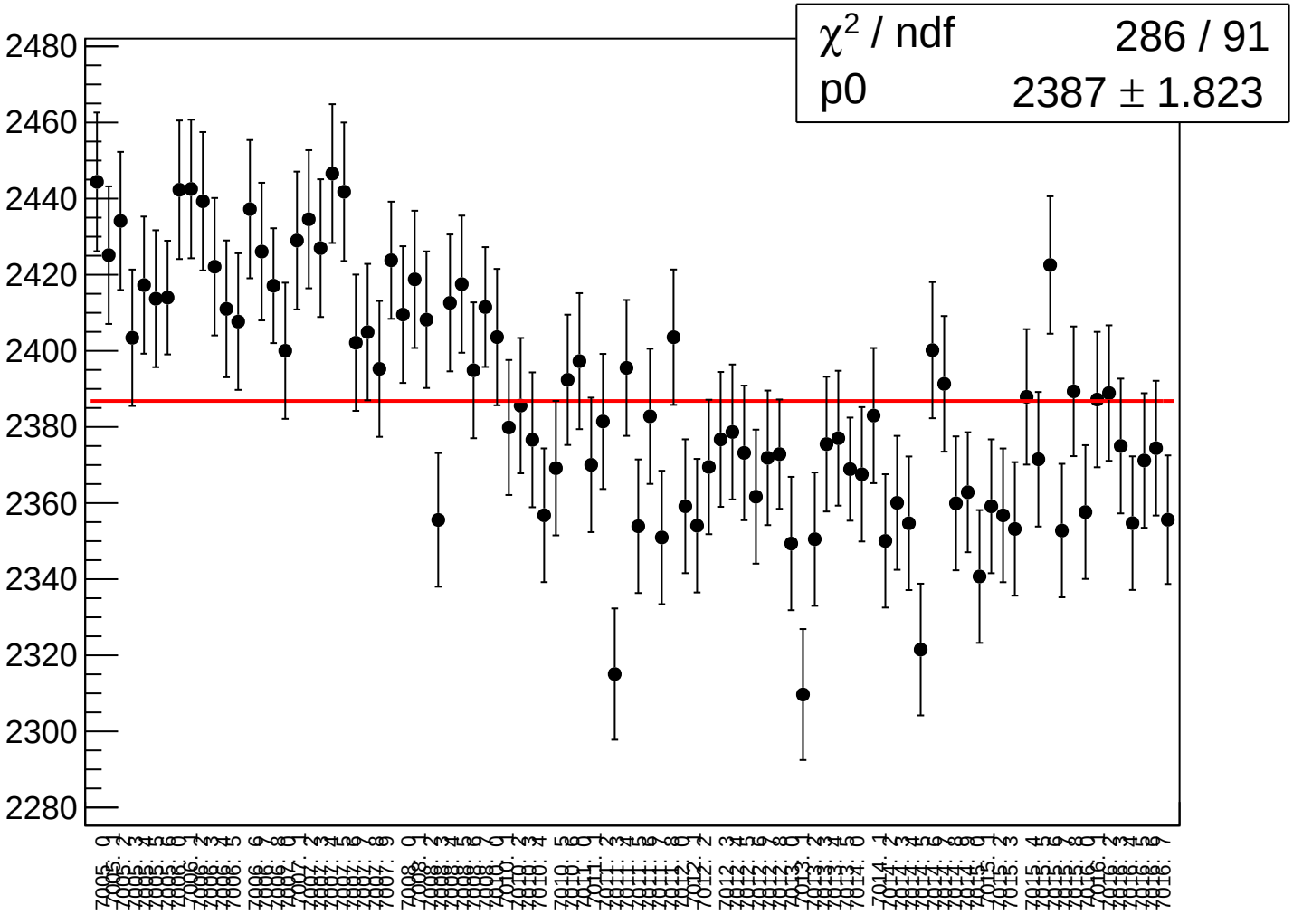

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.02 / 91
p0 1.146e−14 ± 1.465e−14
pull
Entries 92
Mean −101.8
Std Dev 0

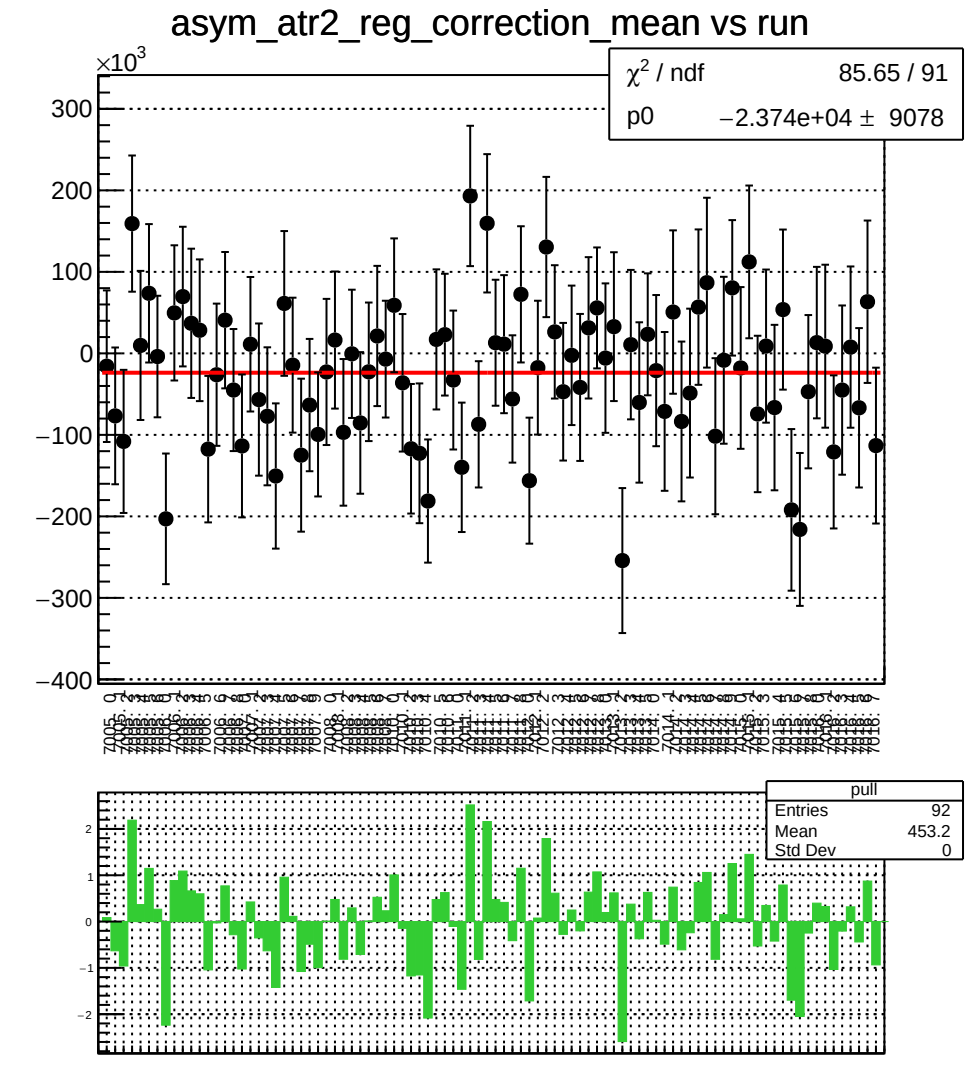

pull1D
Entries 92
Mean −0.02188
Std Dev 0.944

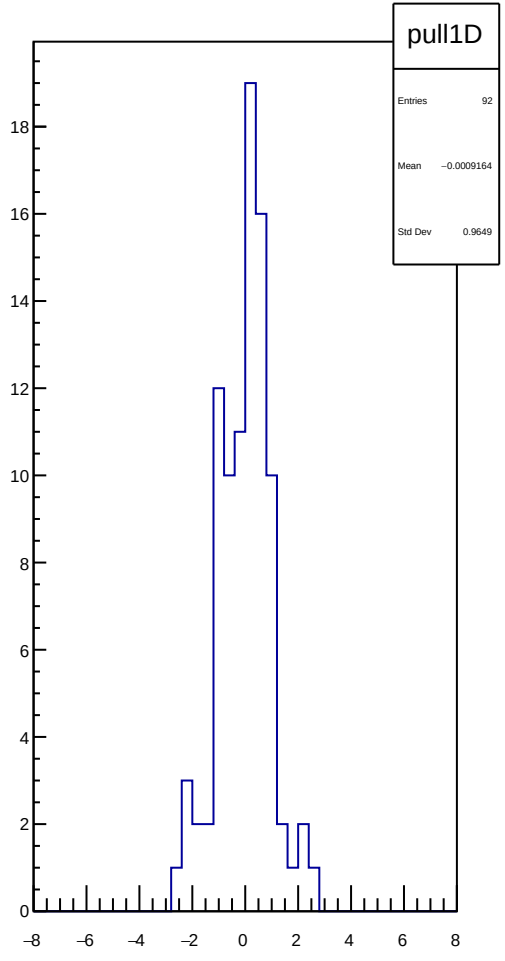

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.118e+05 / 91
p0 1.137e−11 ± 1.036e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

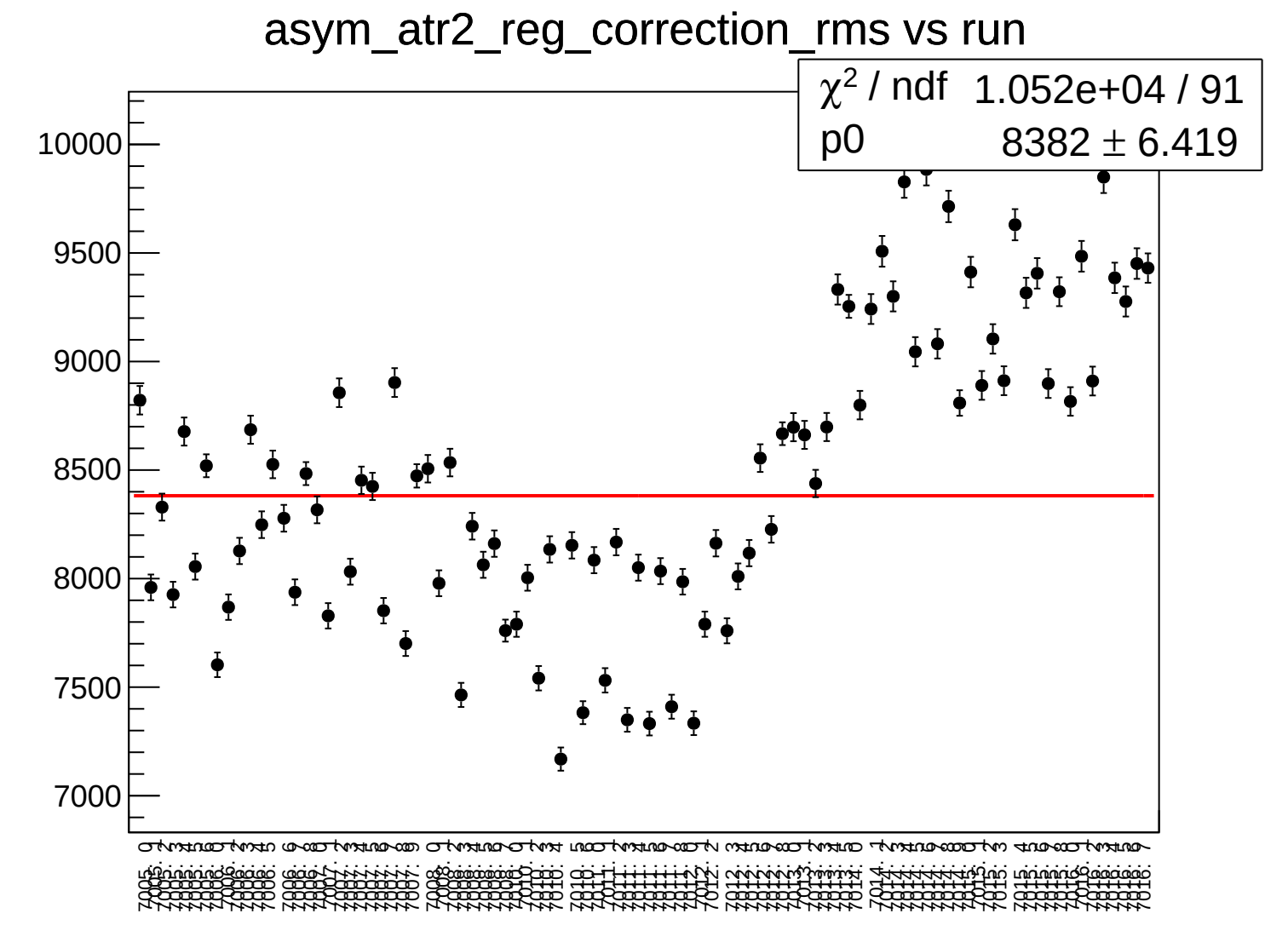

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 83.69 / 91
p0 −4514 ± 2578
100
50
0
−50
−100
pull
Entries 92
Mean −72.88
Std Dev 0
2
1
0
−1
−2
−3

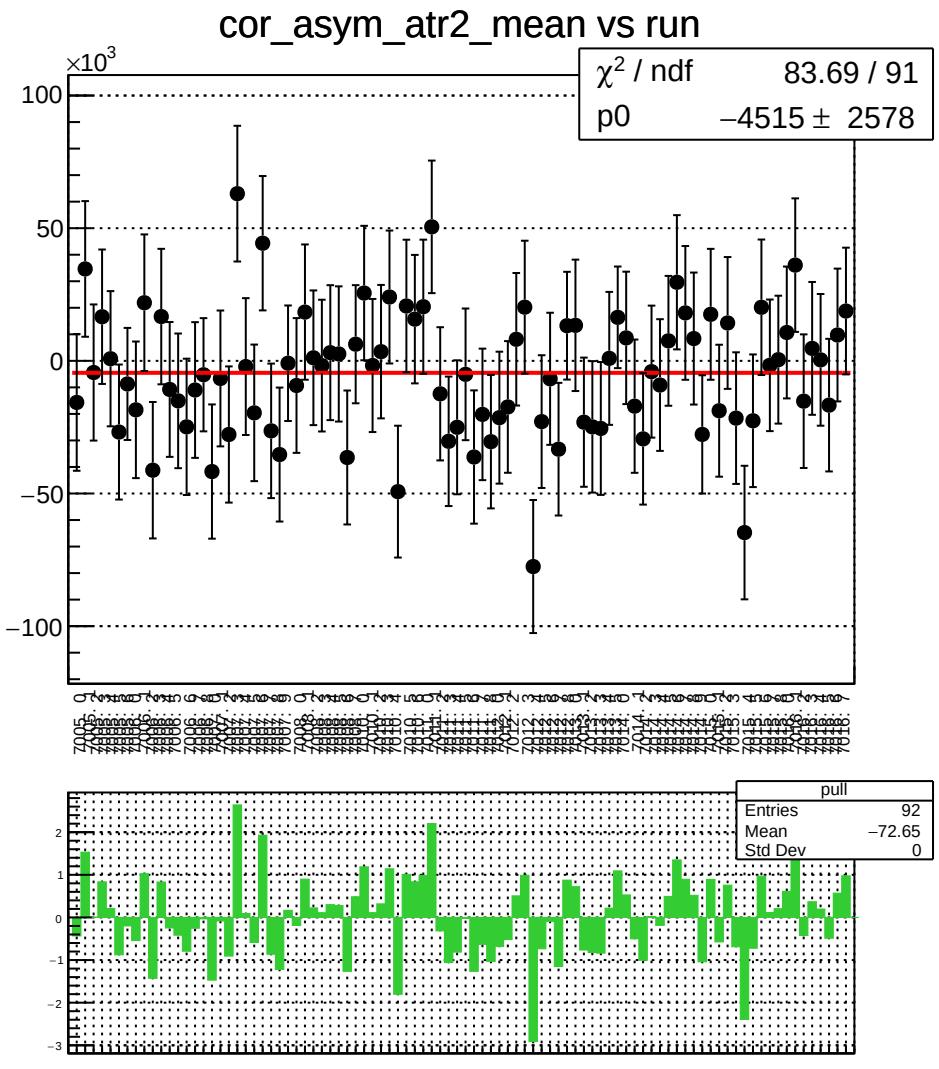

pull1D
Entries 92
Mean −0.004897
Std Dev 0.9538
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

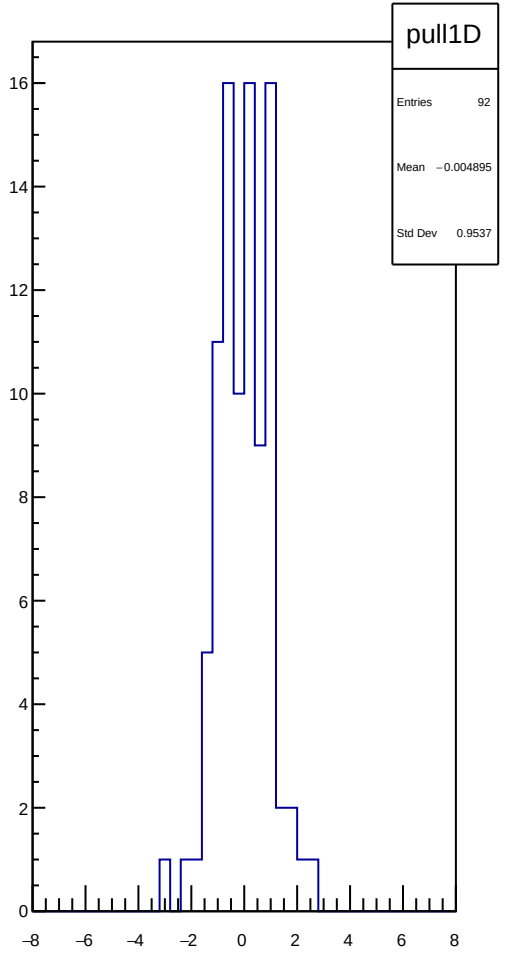

reg_asym_atr2_rms vs run
χ² / ndf 286 / 91
p0 2387 ± 1.823
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

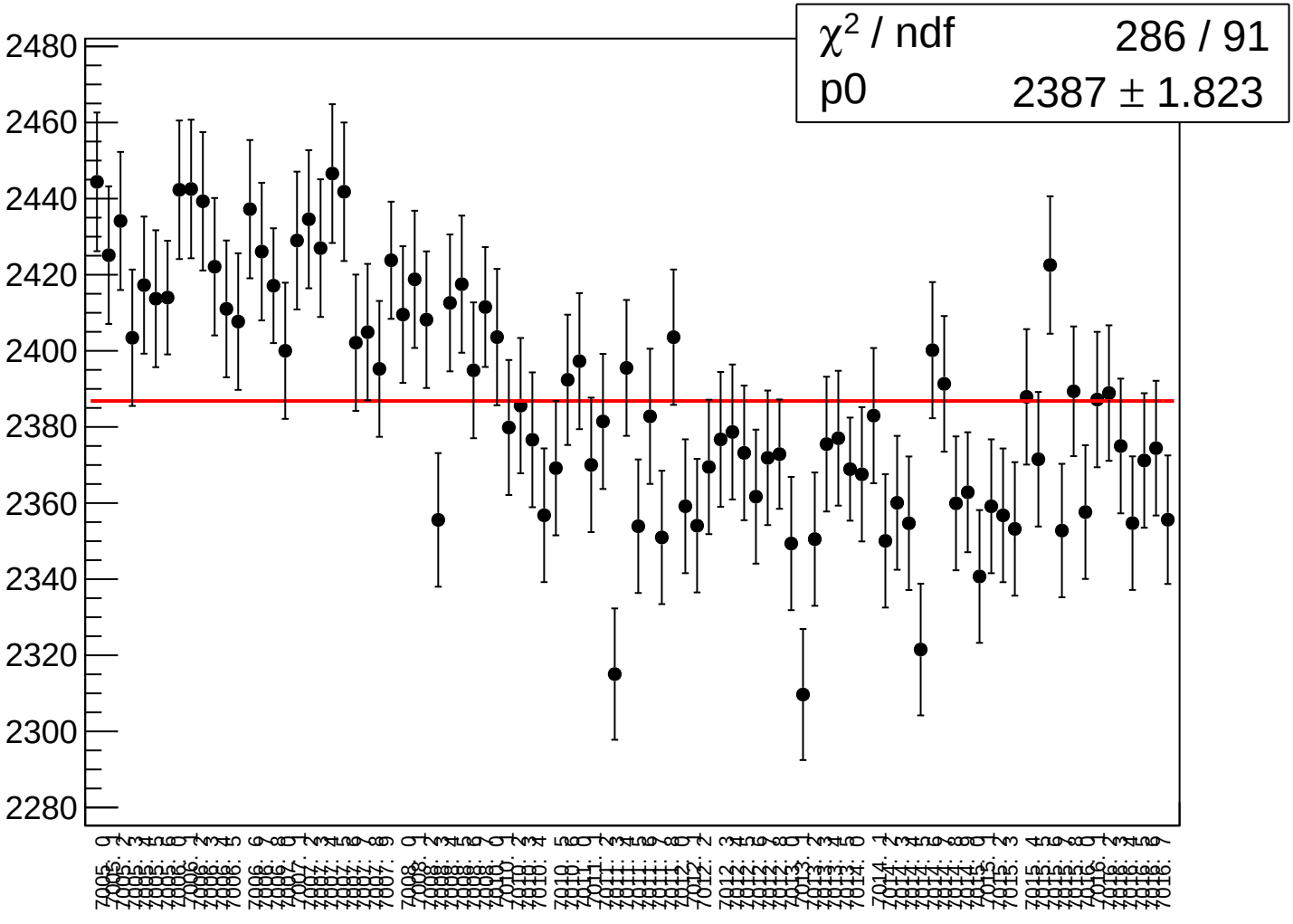

asym_atr2_reg_correction_mean vs run
χ² / ndf 85.65 / 91
p0 −2.374e+04 ± 9078
×10³
pull
Entries 92
Mean 453.2
Std Dev 0

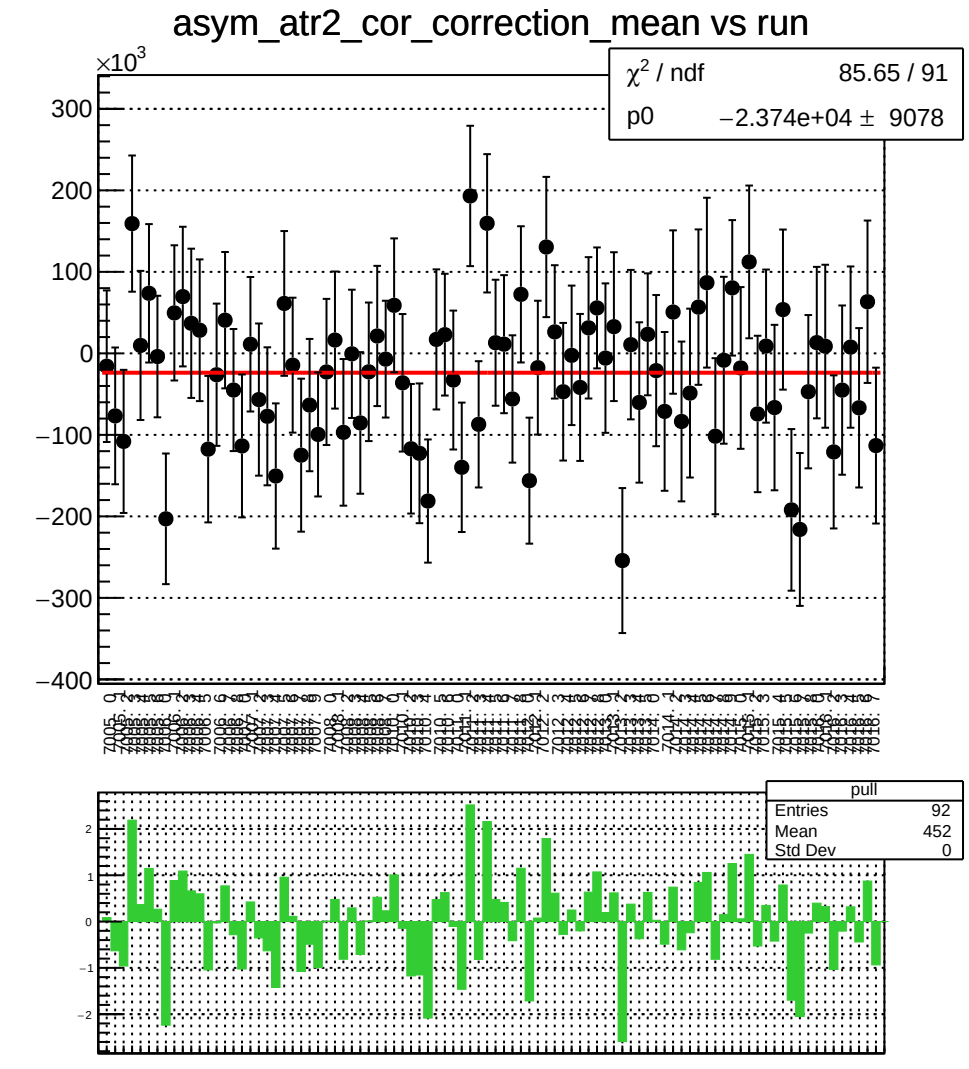

pull1D
Entries 92
Mean −0.0009164
Std Dev 0.9649

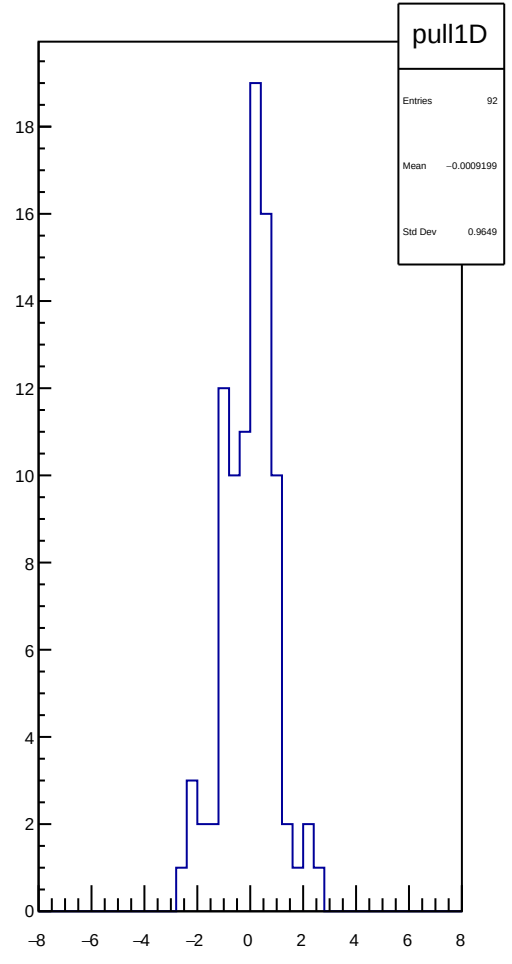

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.052e+04 / 91
p0 8382 ± 6.419
10000
9500
9000
8500
8000
7500
7000

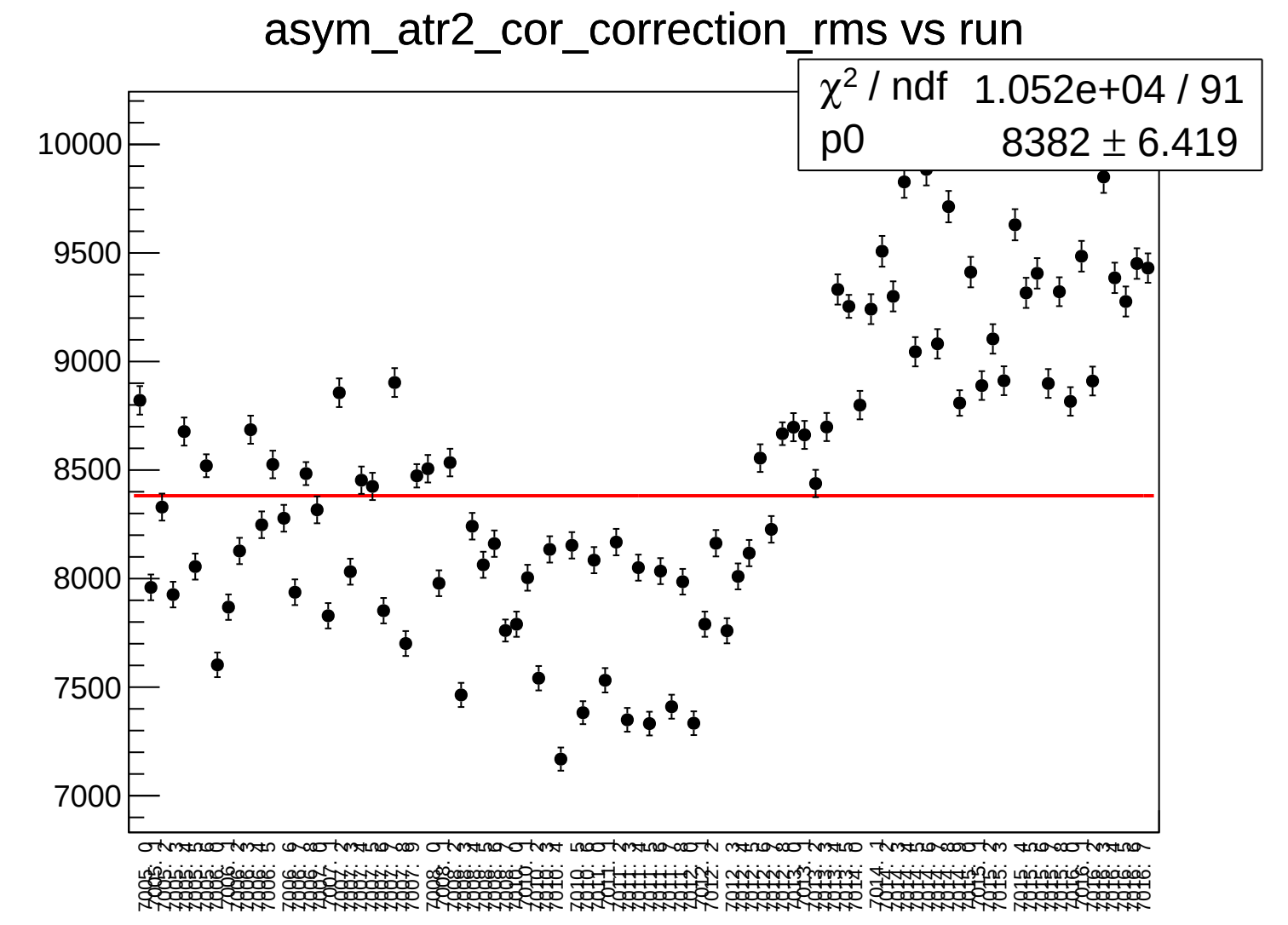

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 83.69 / 91
p0 −4515 ± 2578
100
50
0
−50
−100
pull
Entries 92
Mean −72.65
Std Dev 0
2
1
0
−1
−2
−3

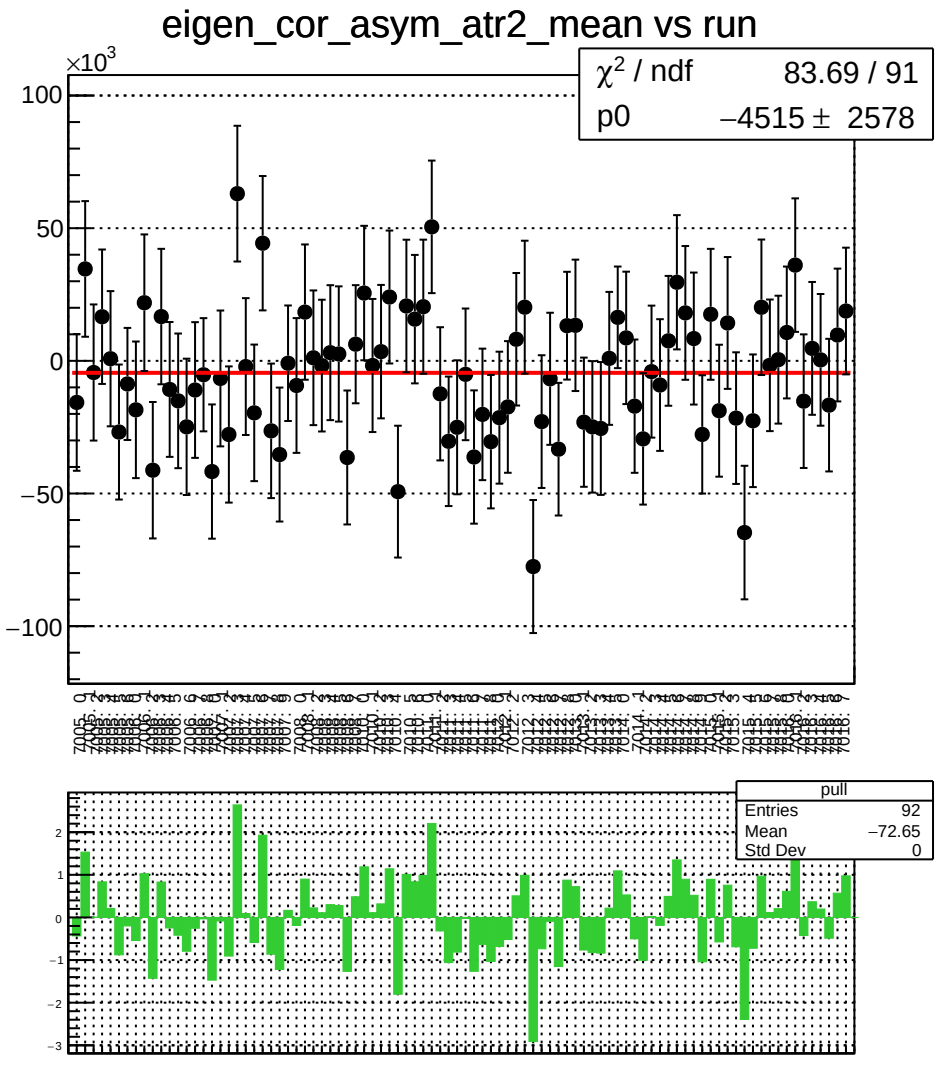

pull1D
Entries 92
Mean −0.004895
Std Dev 0.9537
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

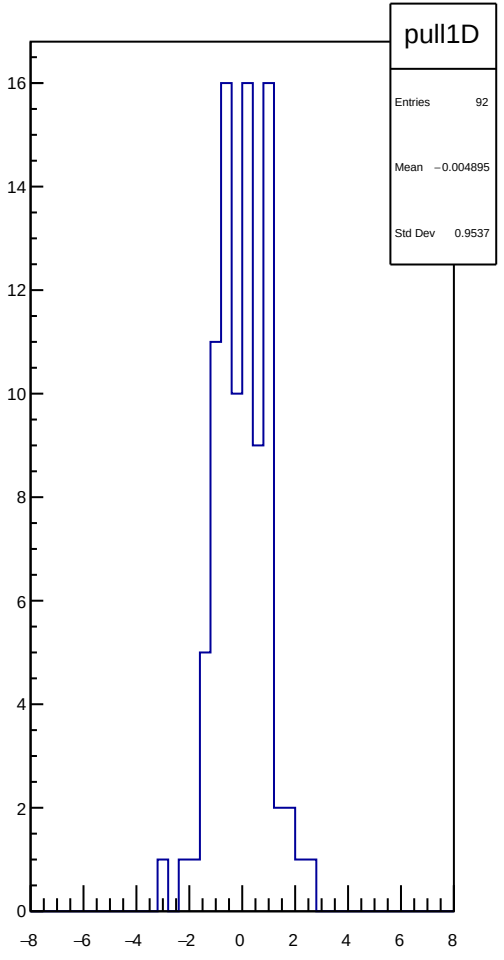

cor_asym_atr2_rms vs run
χ² / ndf 286 / 91
p0 2387 ± 1.823
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

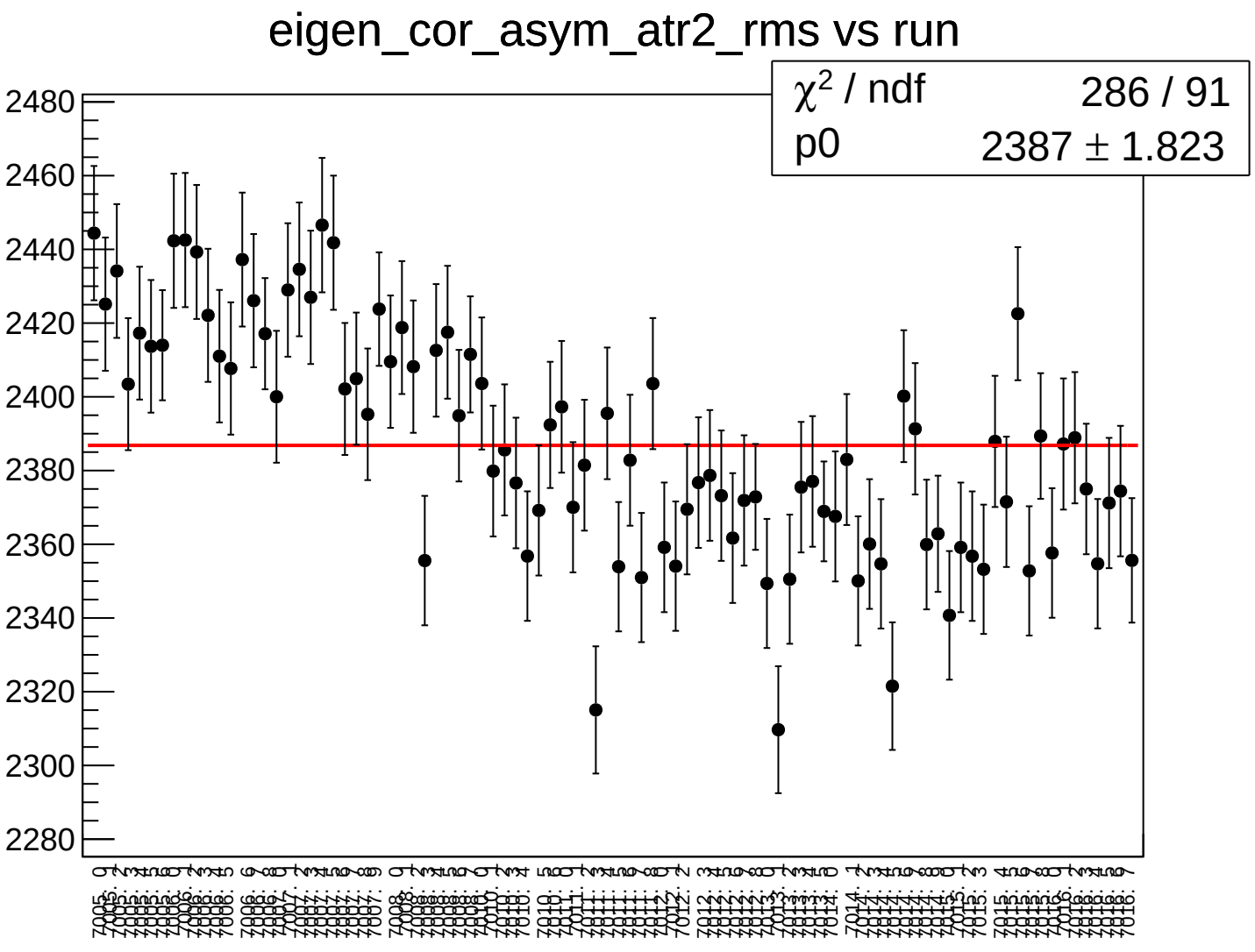

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 85.65 / 91
p0 −2.374e+04 ± 9078
pull
Entries 92
Mean 452
Std Dev 0

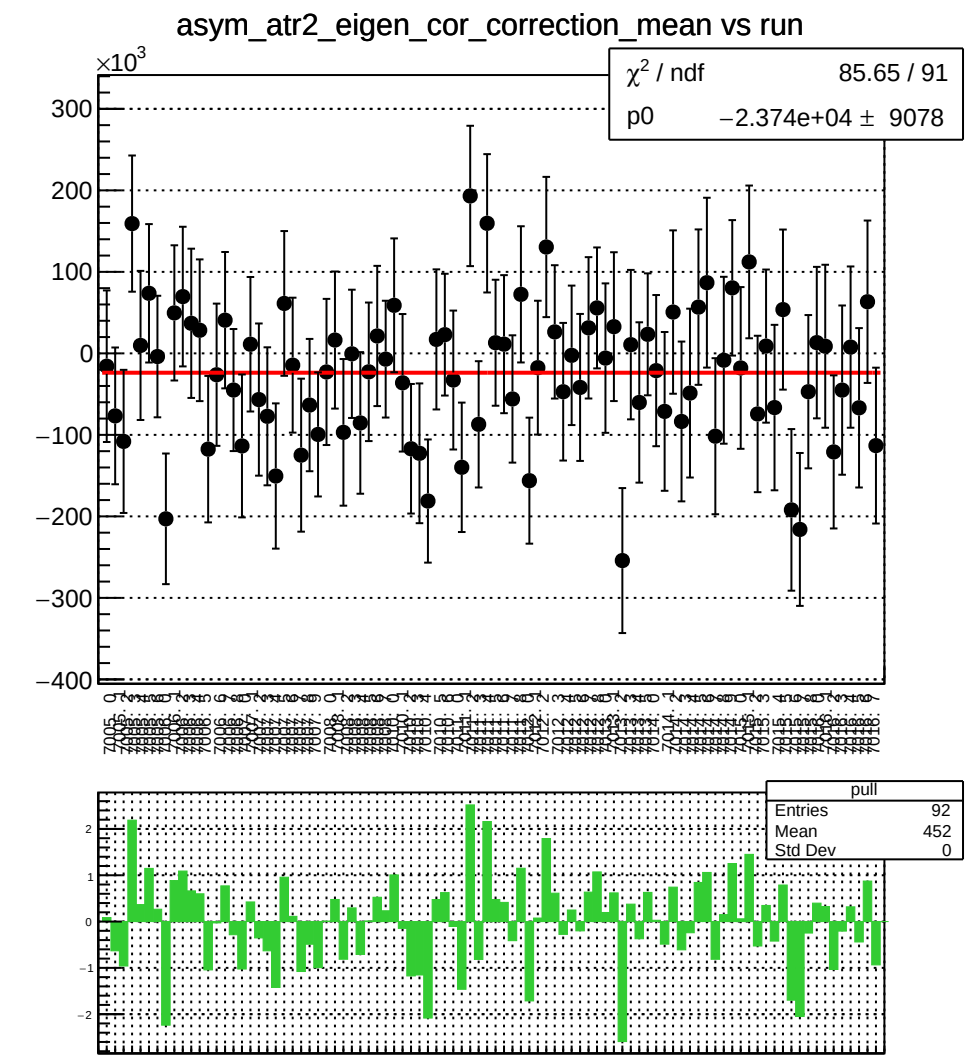

pull1D
Entries 92
Mean −0.0009199
Std Dev 0.9649

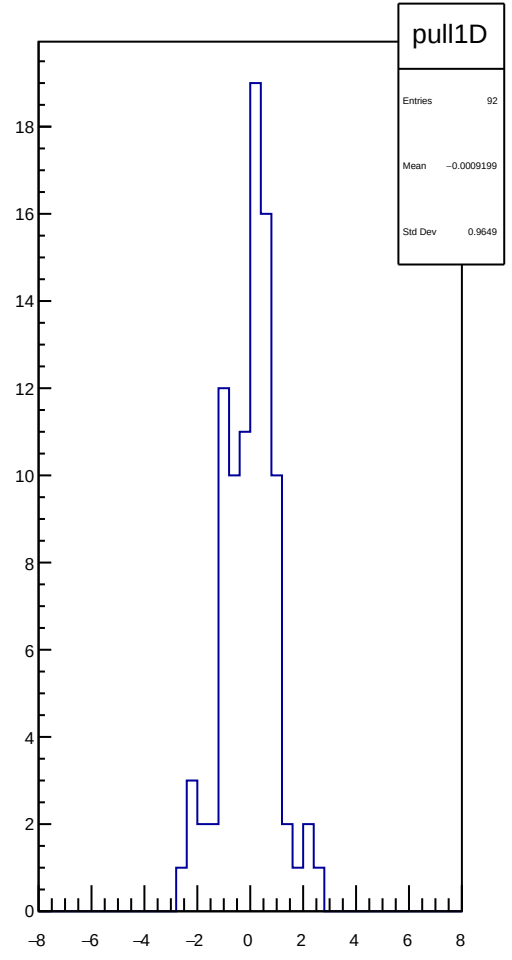

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.052e+04 / 91
p0 8382 ± 6.419
10000
9500
9000
8500
8000
7500
7000

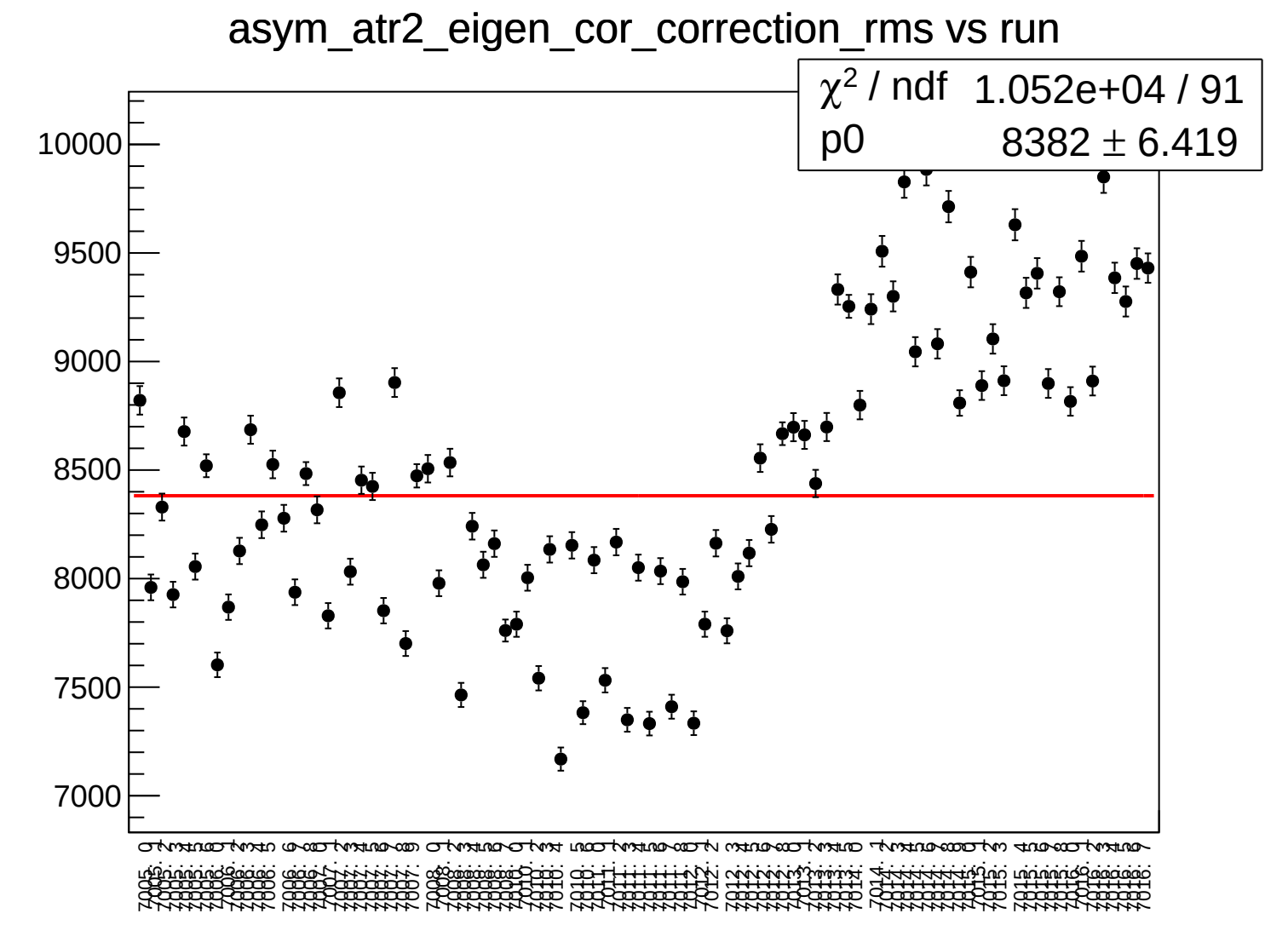

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 83.69 / 91
p0 −4515 ± 2578
100
50
0
−50
−100
pull
Entries 92
Mean −72.65
Std Dev 0
2
1
0
−1
−2
−3

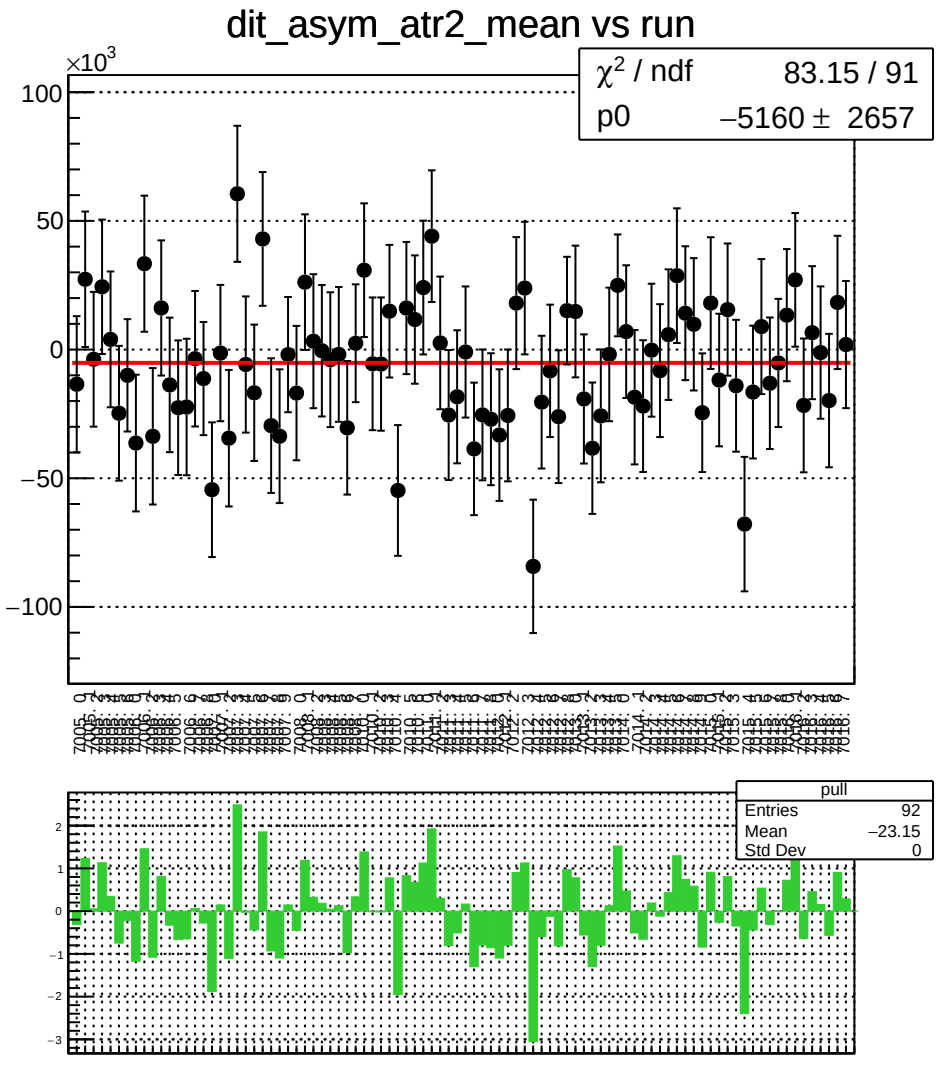

pull1D
Entries 92
Mean −0.004895
Std Dev 0.9537
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

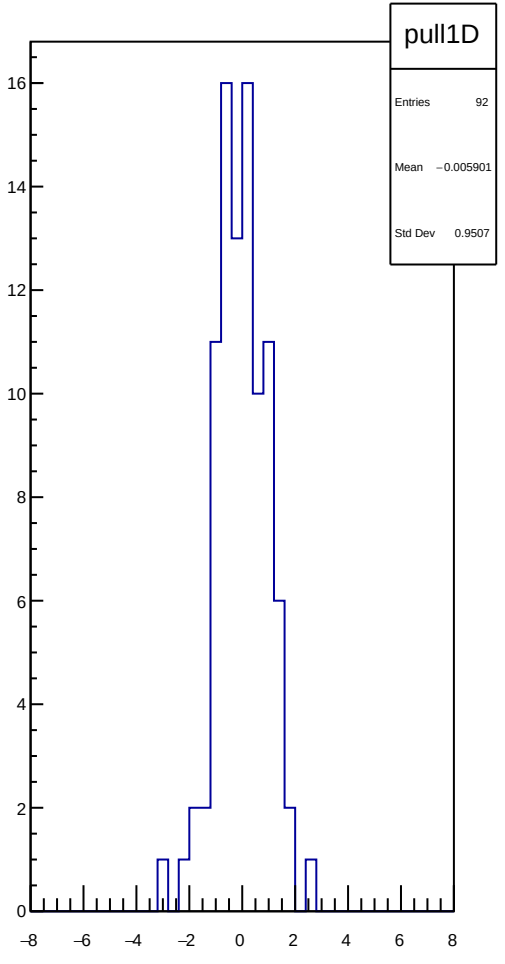

eigen_cor_asym_atr2_rms vs run
χ² / ndf 286 / 91
p0 2387 ± 1.823
2480
2460
2440
2420
2400
2380
2360
2340
2320
2300
2280

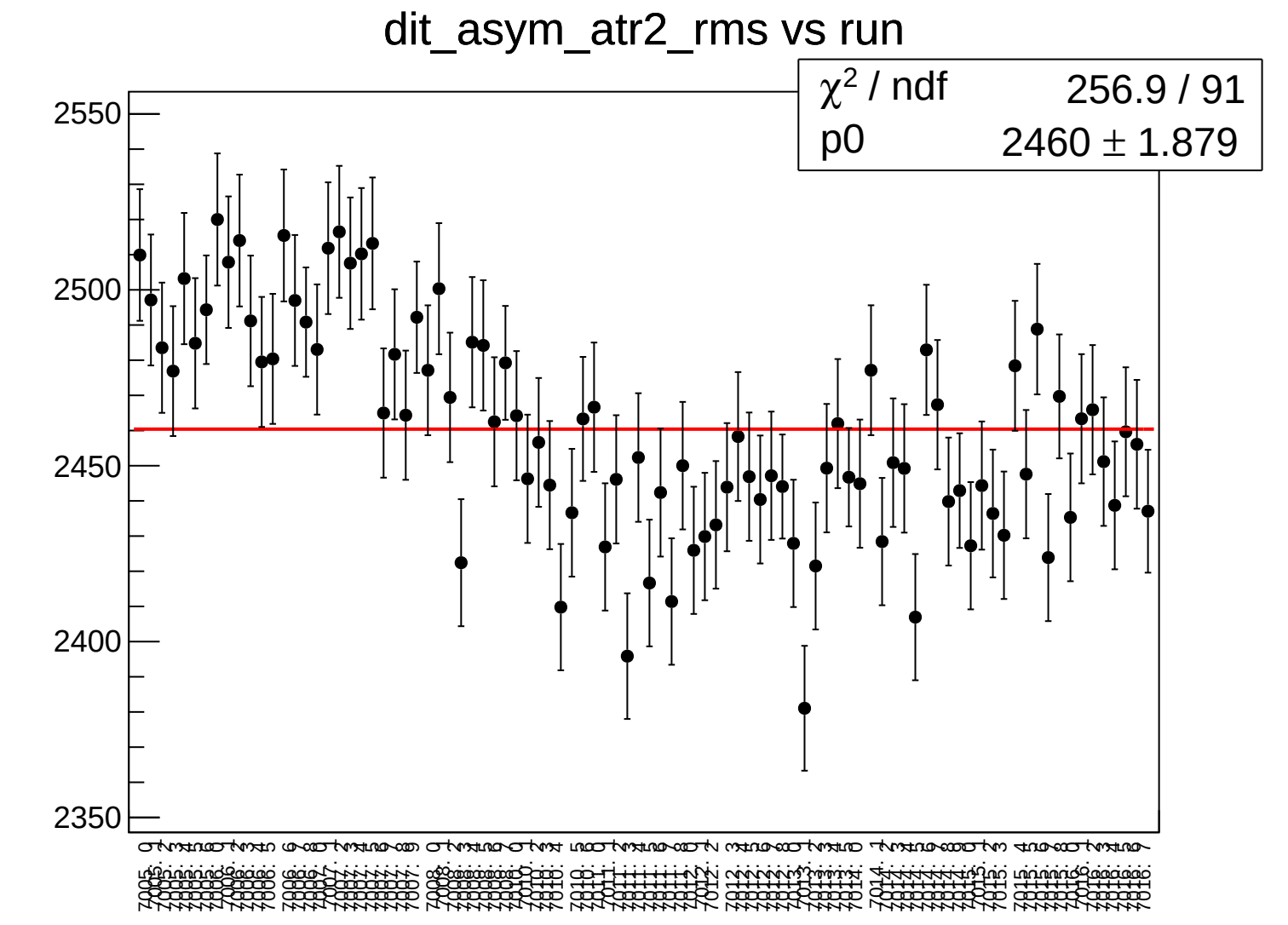

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.65 / 91
p0 −2.374e+04 ± 9078
pull
Entries 92
Mean 452
Std Dev 0

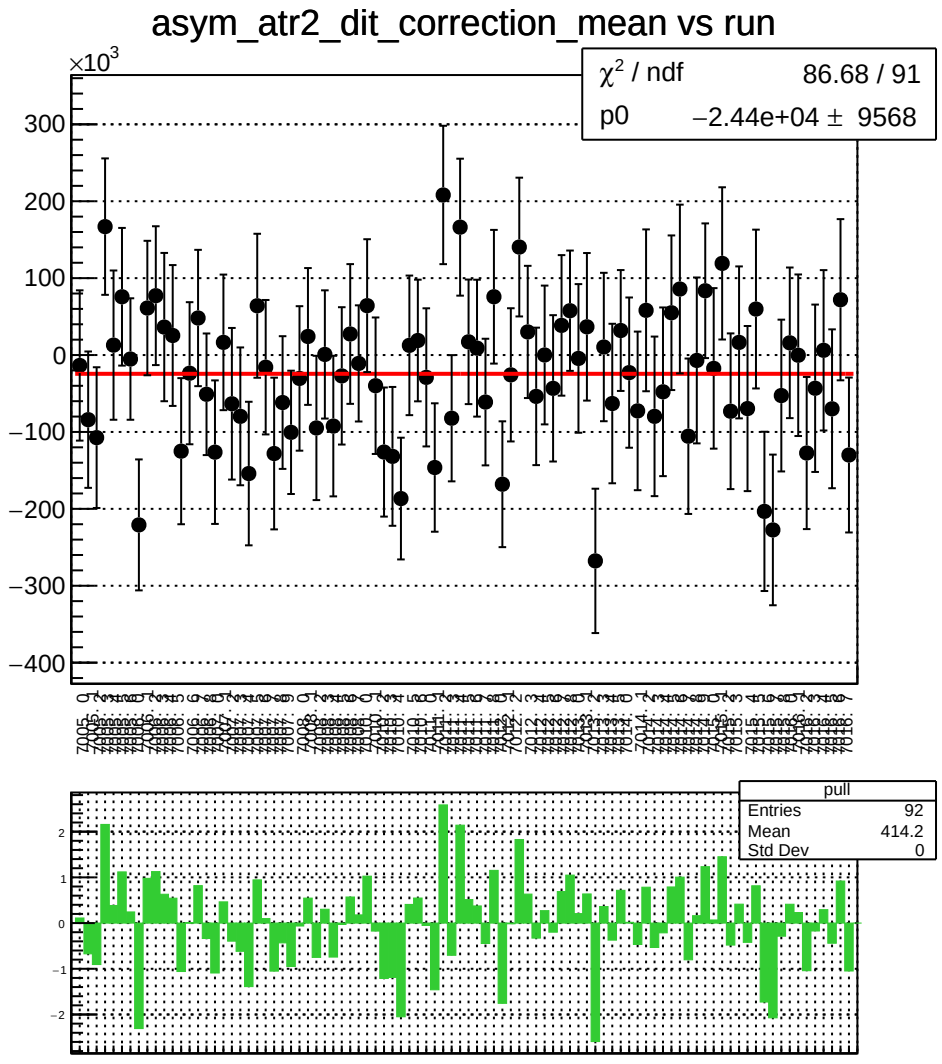

pull1D
Entries 92
Mean −0.0009199
Std Dev 0.9649

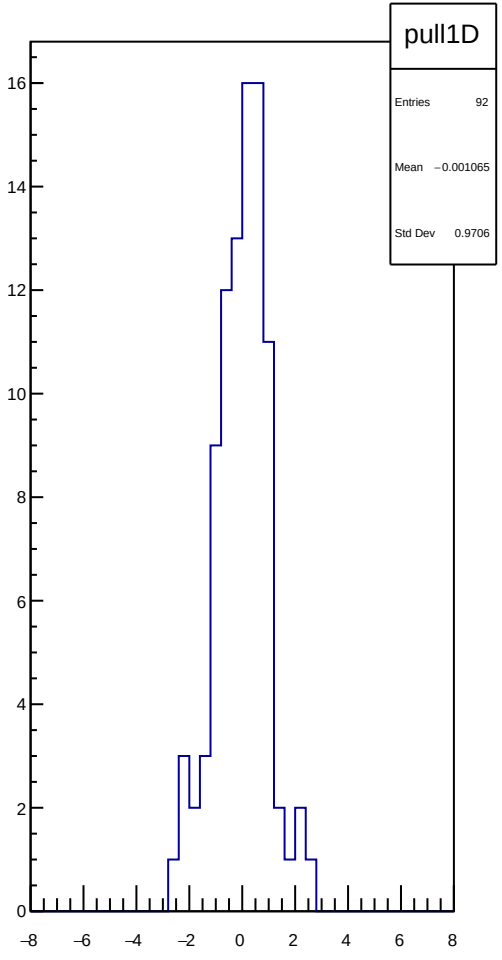

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.052e+04 / 91
p0 8382 ± 6.419
10000
9500
9000
8500
8000
7500
7000

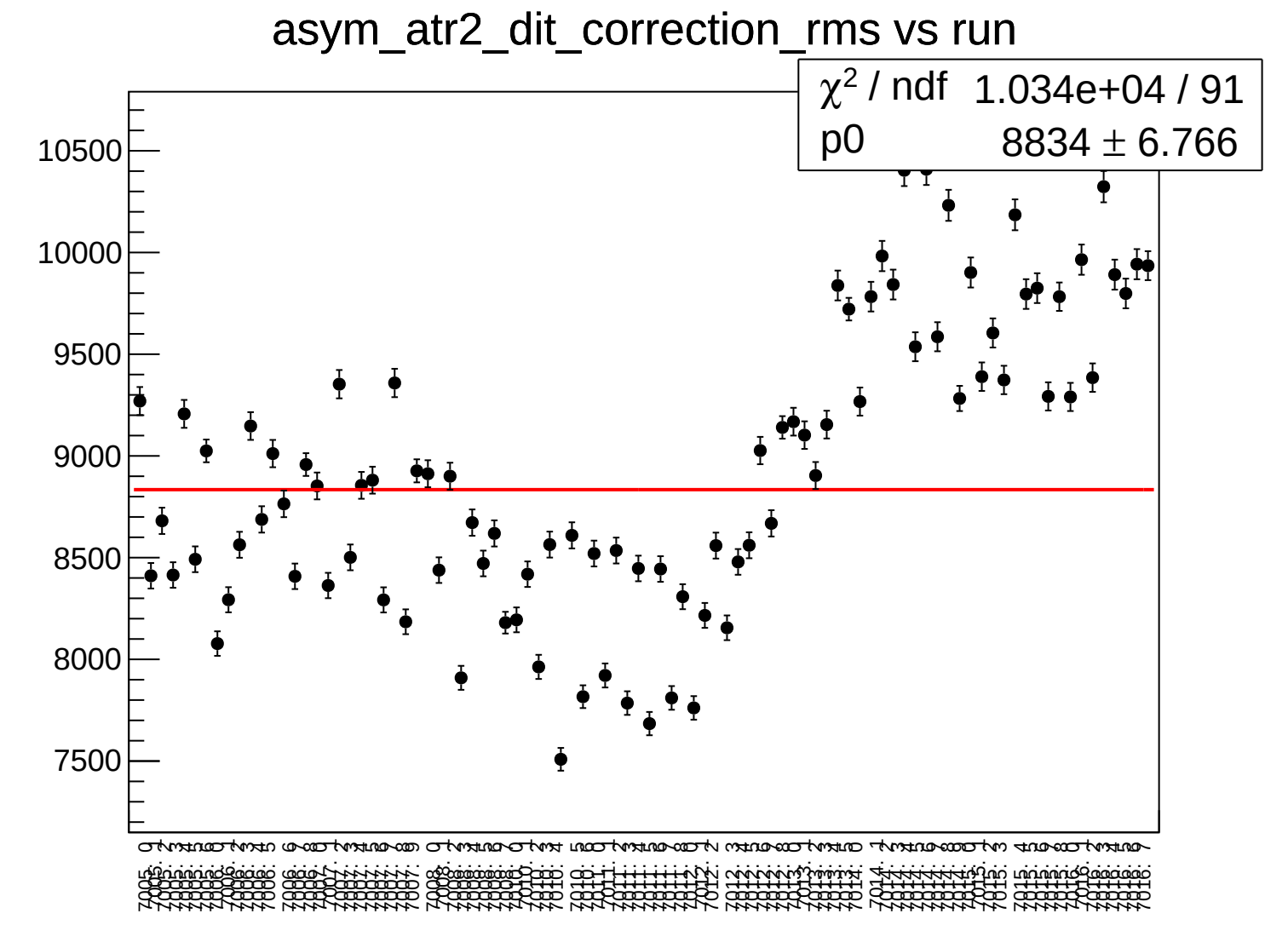

dit_asym_atr2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 83.15 / 91
p0 −5160 ± 2657
pull
Entries 92
Mean −23.15
Std Dev 0
2
1
0
−1
−2
−3

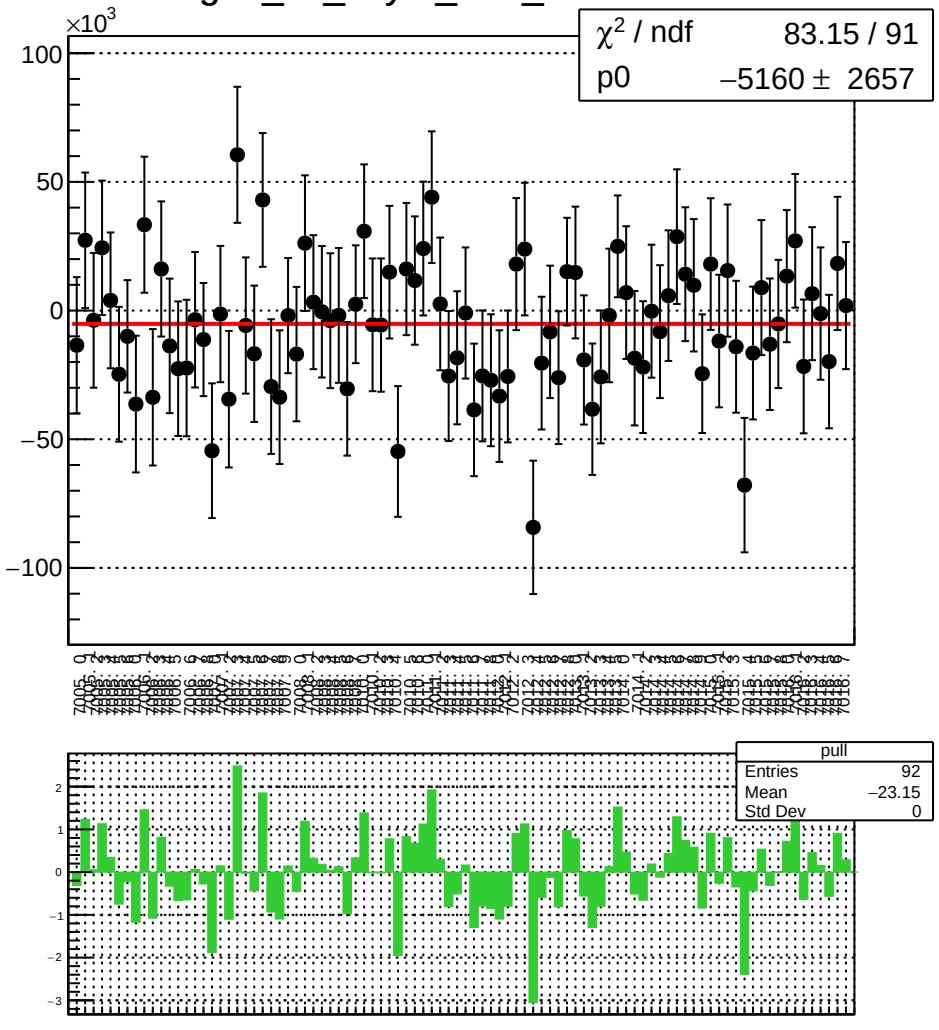

pull1D
Entries 92
Mean −0.005901
Std Dev 0.9507
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

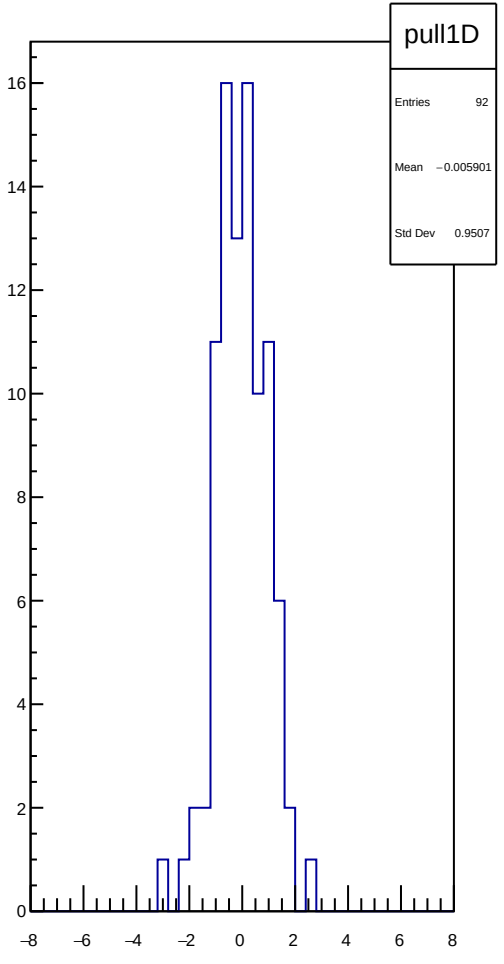

dit_asym_atr2_rms vs run
$\chi^2$ / ndf 256.9 / 91
p0 2460 ± 1.879
2550
2500
2450
2400
2350

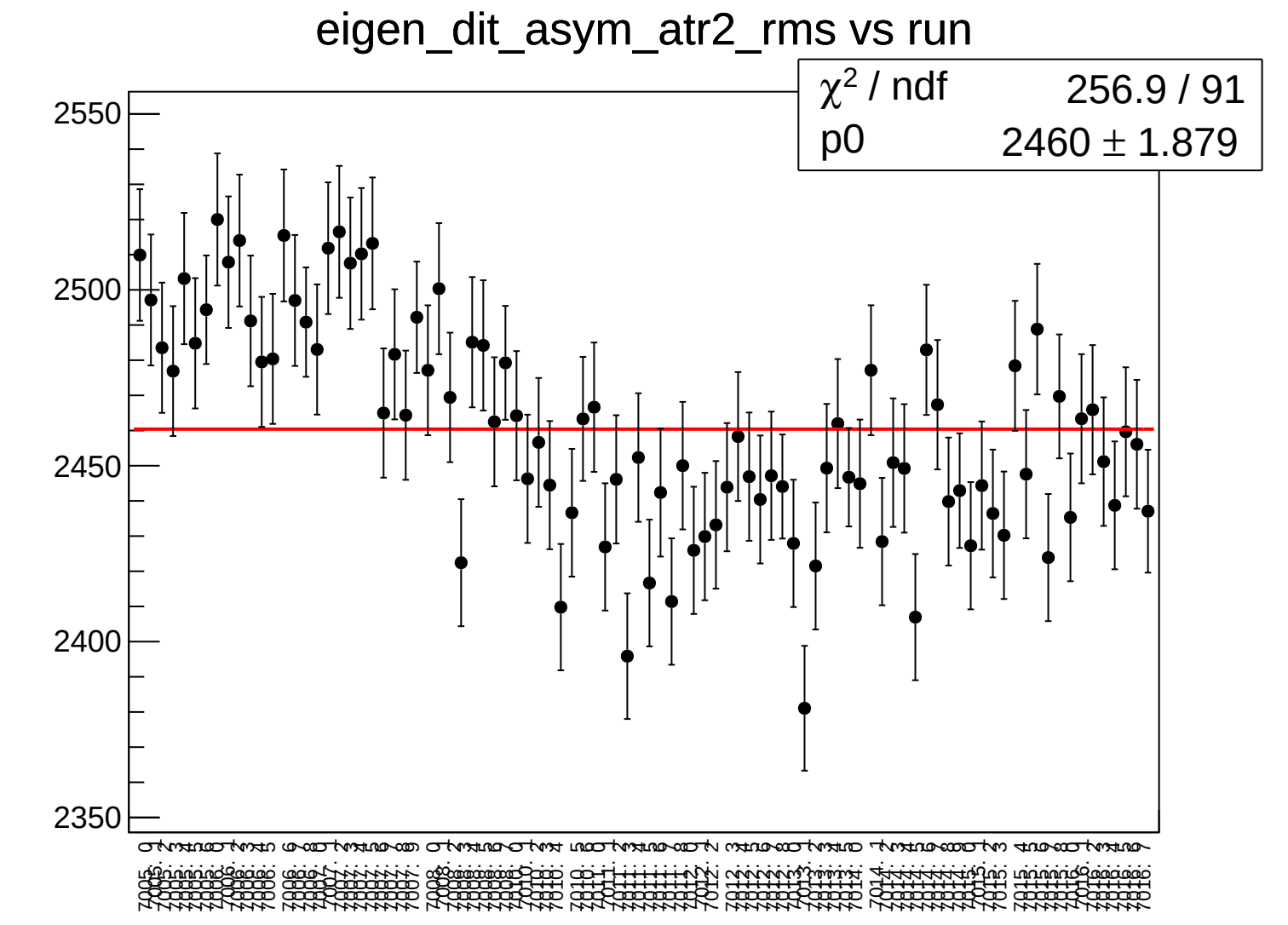

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 86.68 / 91
p0 −2.44e+04 ± 9568
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean 414.2
Std Dev 0
2
1
0
−1
−2

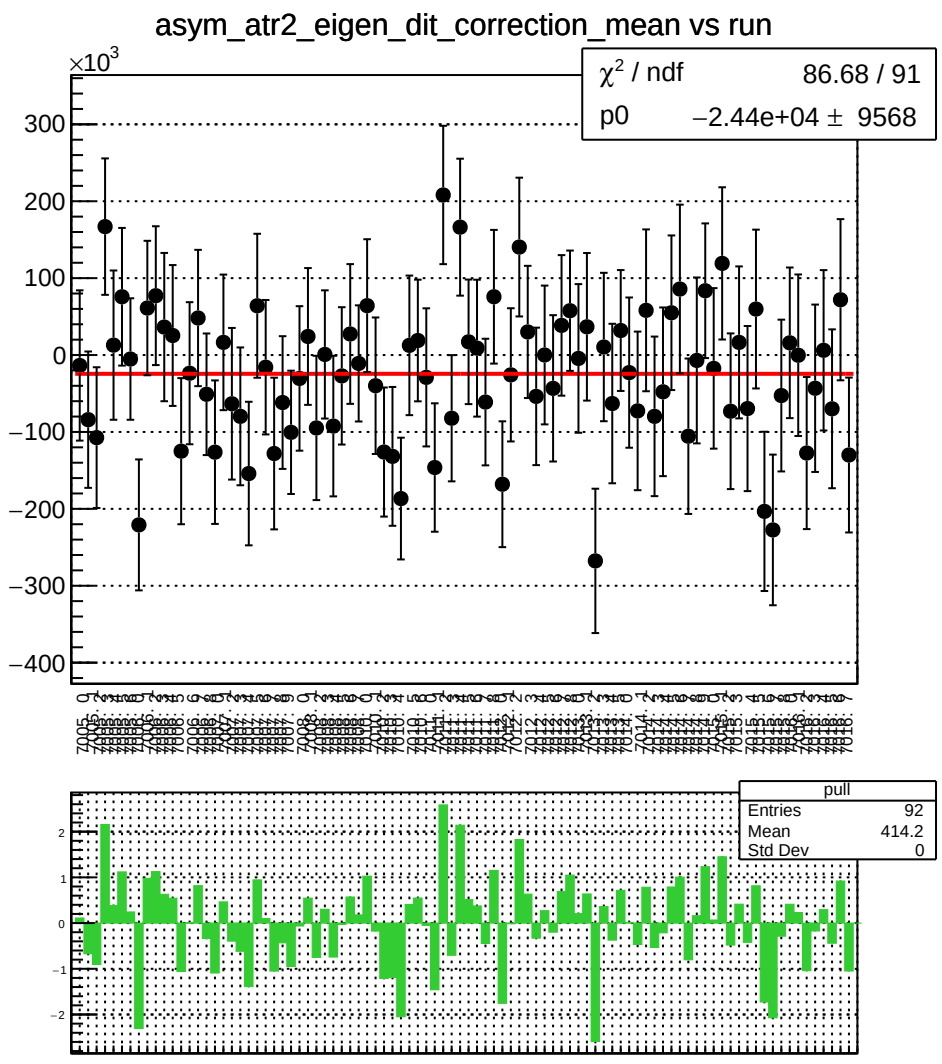

pull1D
Entries 92
Mean −0.001065
Std Dev 0.9706
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

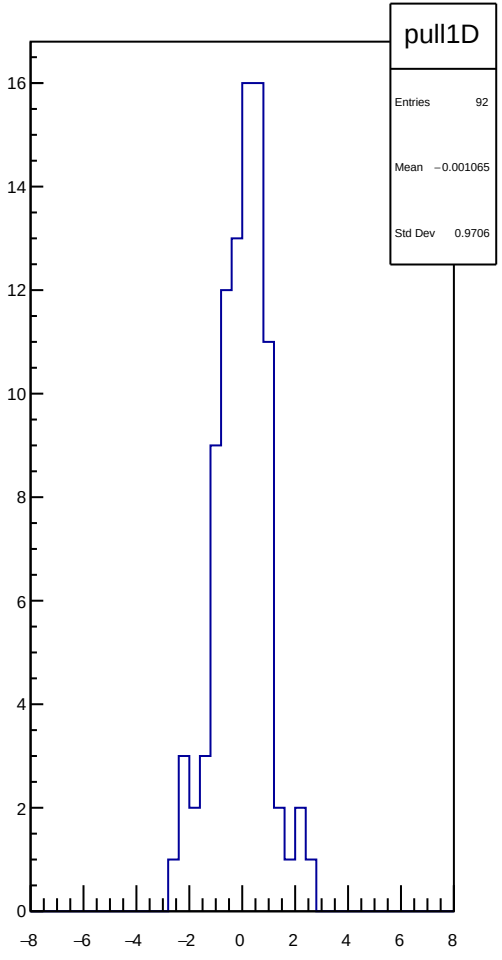

asym_atr2_dit_correction_rms vs run
χ² / ndf 1.034e+04 / 91
p0 8834 ± 6.766
10500
10000
9500
9000
8500
8000
7500

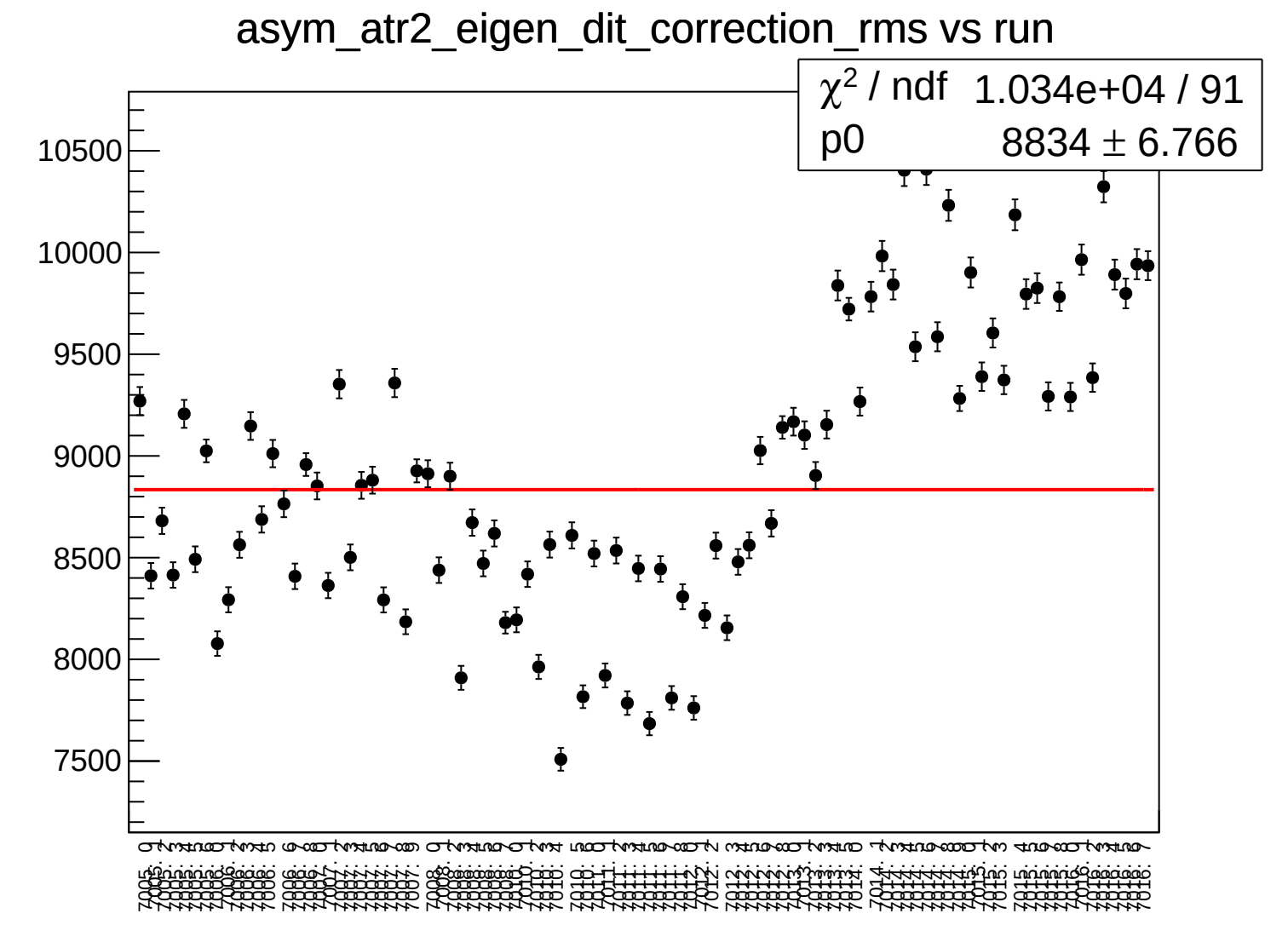

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 83.15 / 91
p0 −5160 ± 2657
100
50
0
−50
−100
pull
Entries 92
Mean −23.15
Std Dev 0
2
1
0
−1
−2
−3

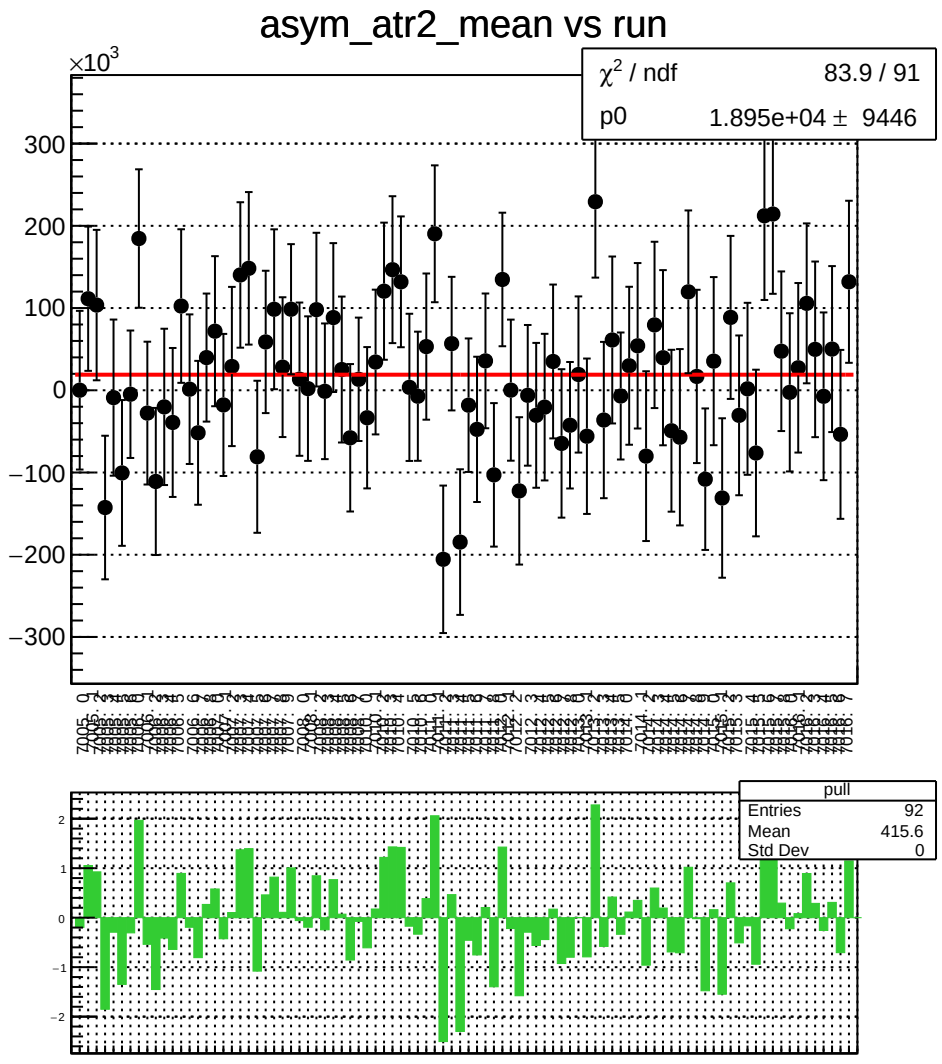

pull1D
Entries 92
Mean −0.005901
Std Dev 0.9507
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

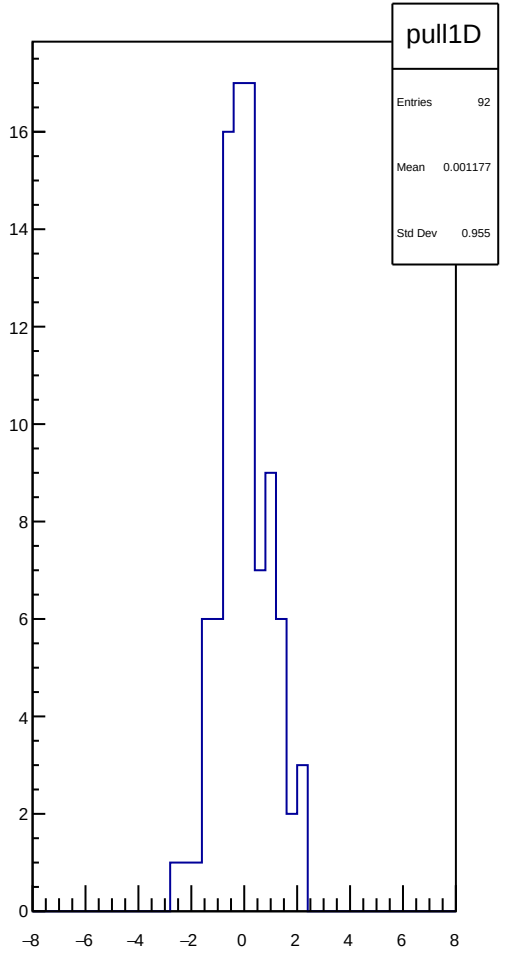

eigen_dit_asym_atr2_rms vs run
$\chi^2$ / ndf 256.9 / 91
p0 2460 ± 1.879
2550
2500
2450
2400
2350

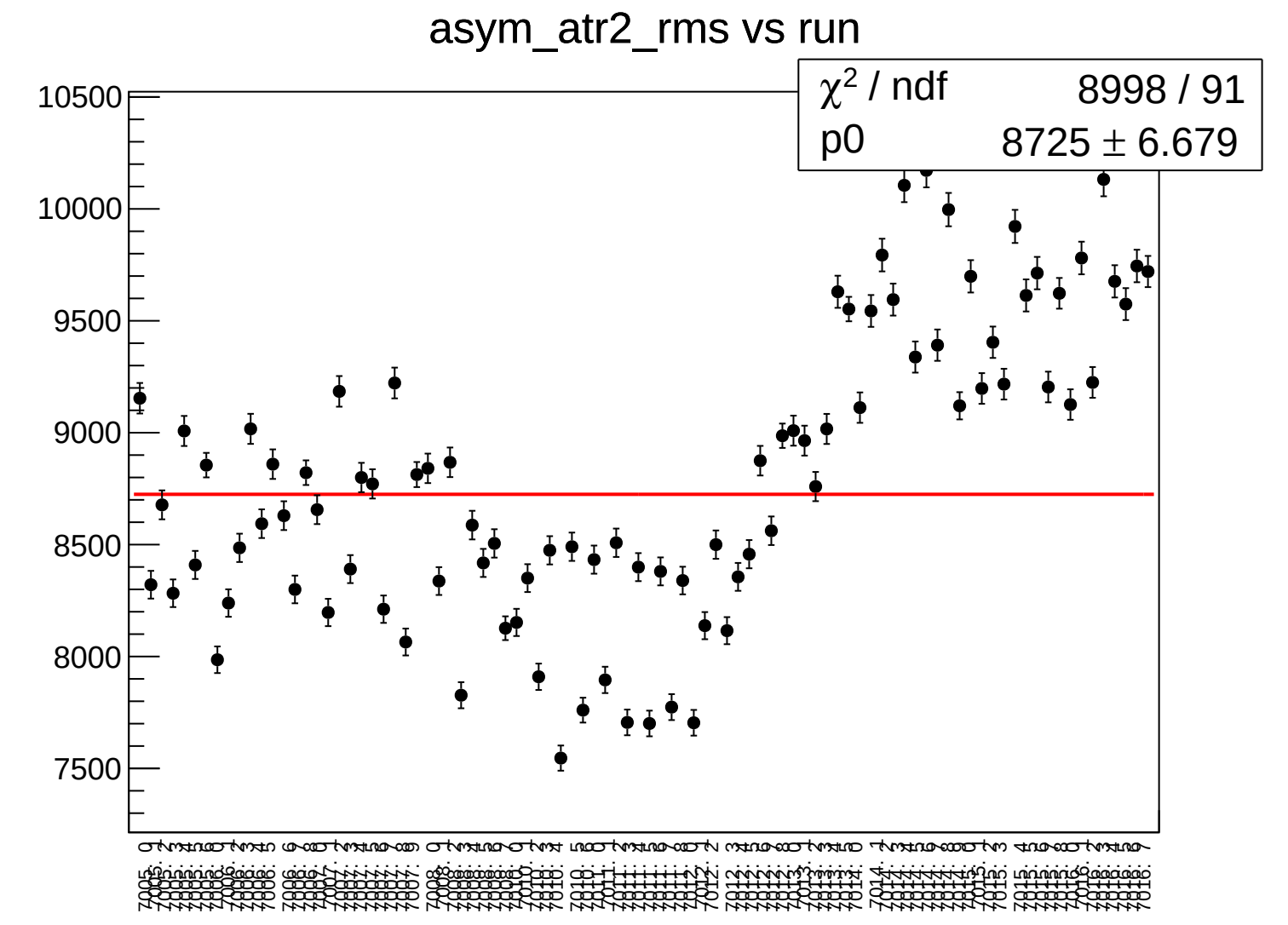

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.68 / 91
p0 −2.44e+04 ± 9568
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean 414.2
Std Dev 0
2
1
0
−1
−2

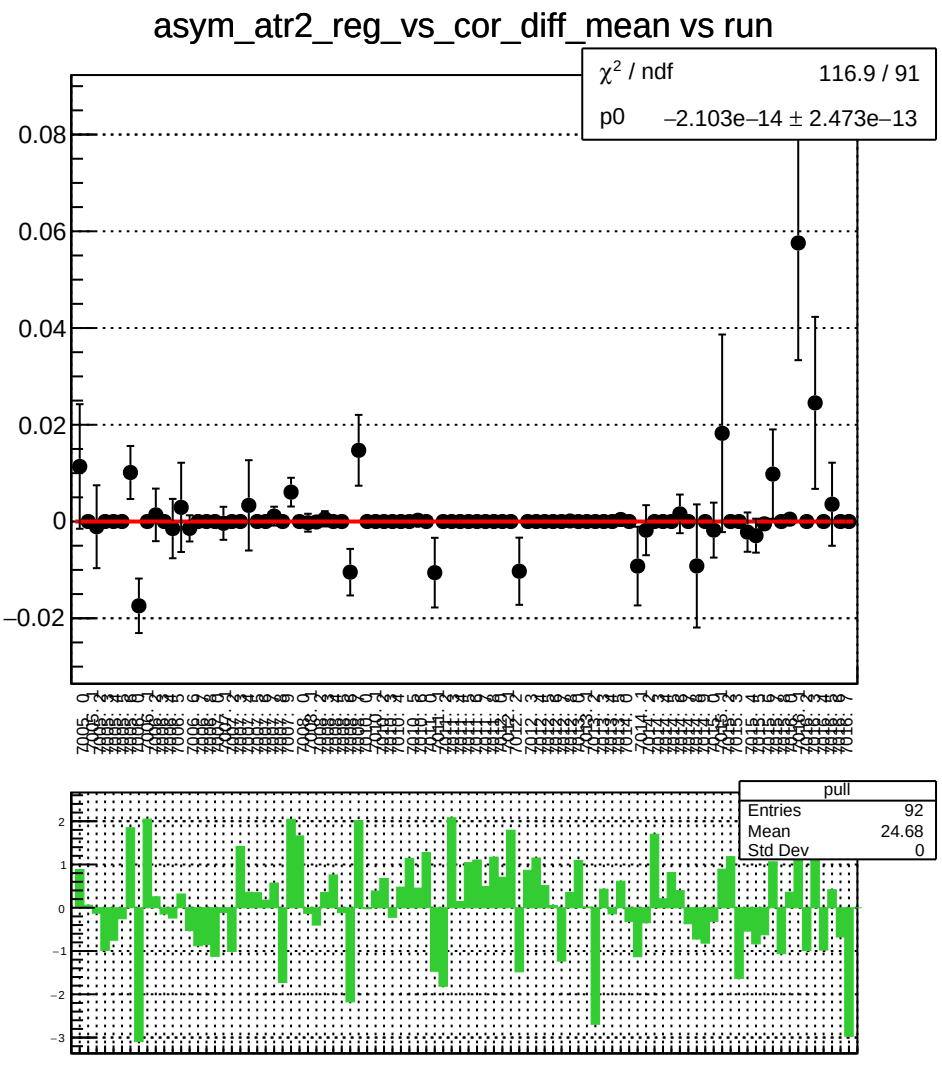

pull1D
Entries 92
Mean −0.001065
Std Dev 0.9706
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

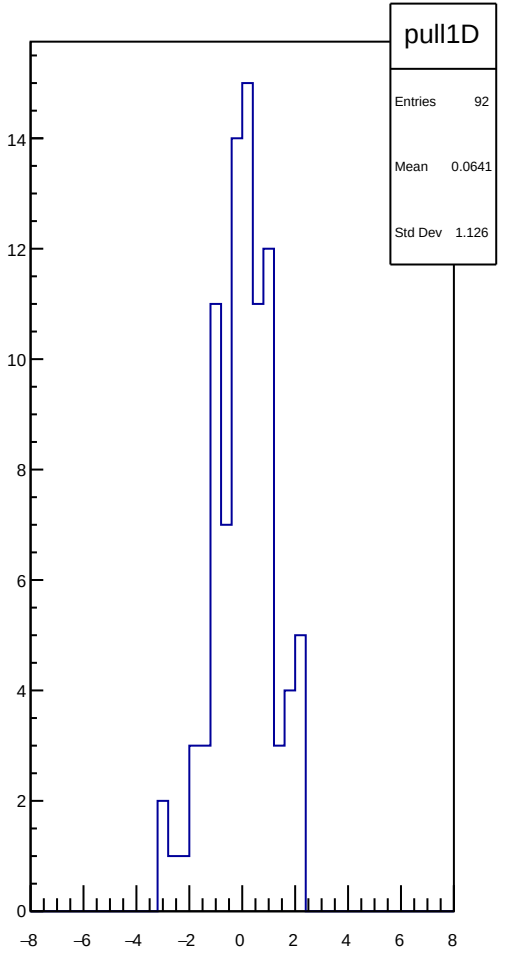

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 1.034e+04 / 91
p0 8834 ± 6.766
10500
10000
9500
9000
8500
8000
7500

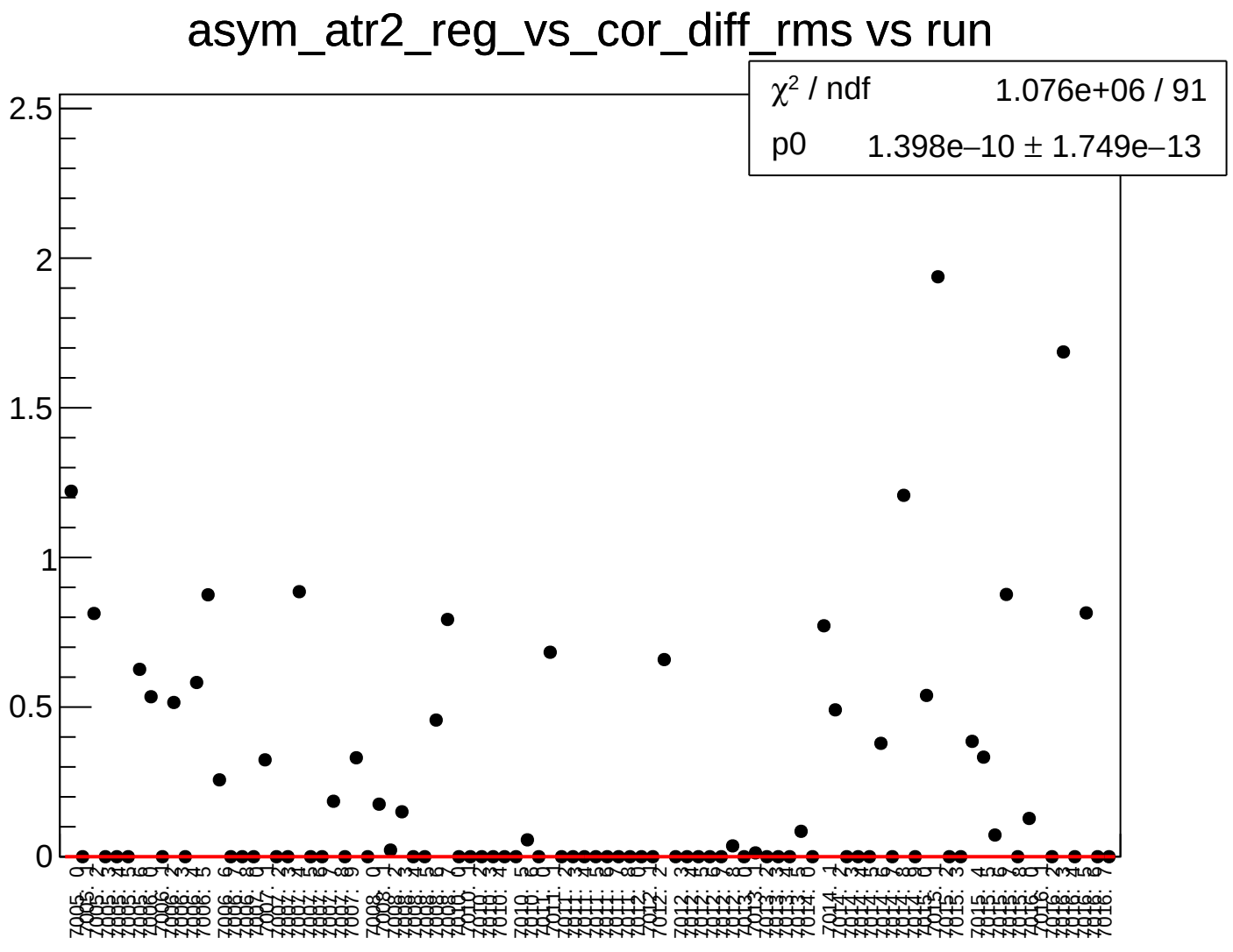

asym_atr2_mean vs run
×10^3
χ² / ndf 83.9 / 91
p0 1.895e+04 ± 9446
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean 415.6
Std Dev 0
2
1
0
−1
−2

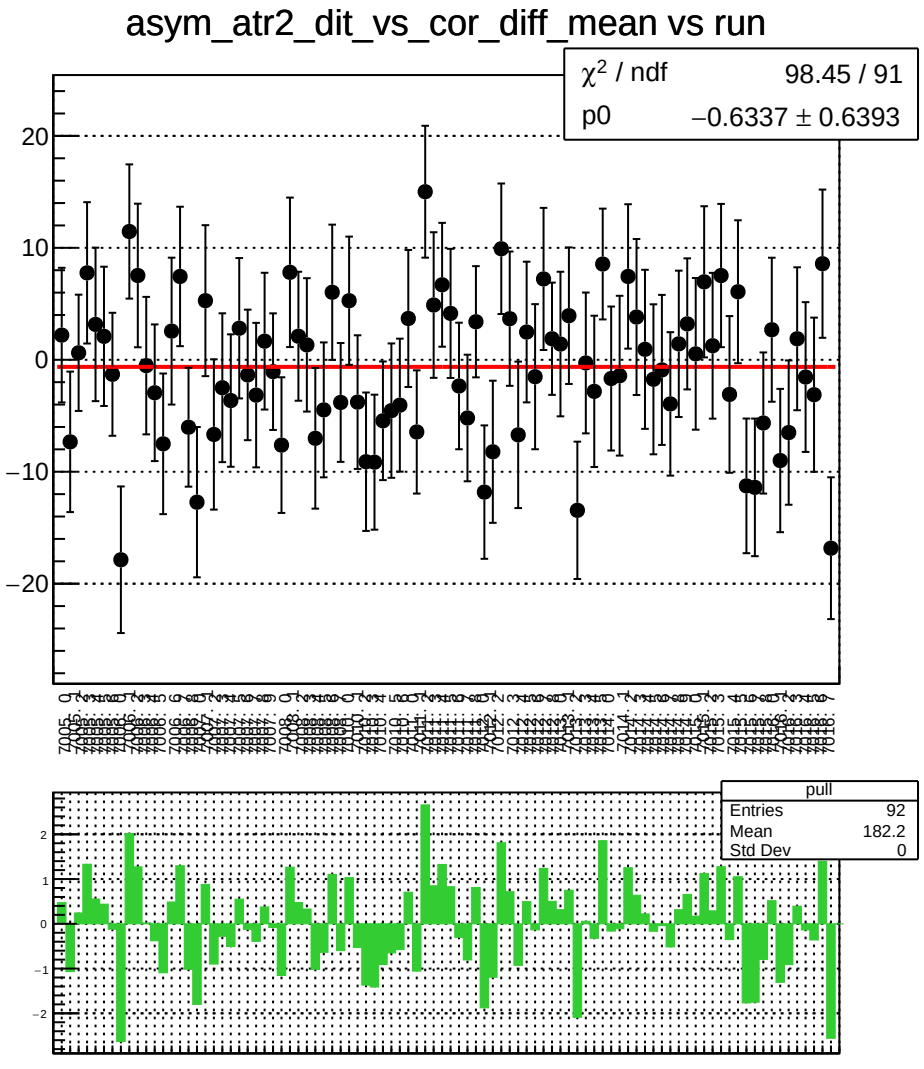

pull1D
Entries 92
Mean 0.001177
Std Dev 0.955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

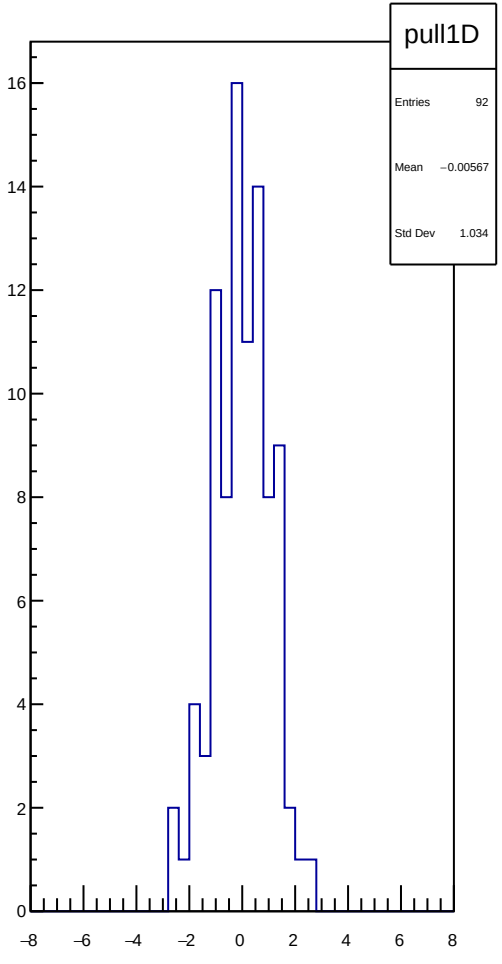

asym_atr2_rms vs run
χ² / ndf 8998 / 91
p0 8725 ± 6.679
10500
10000
9500
9000
8500
8000
7500

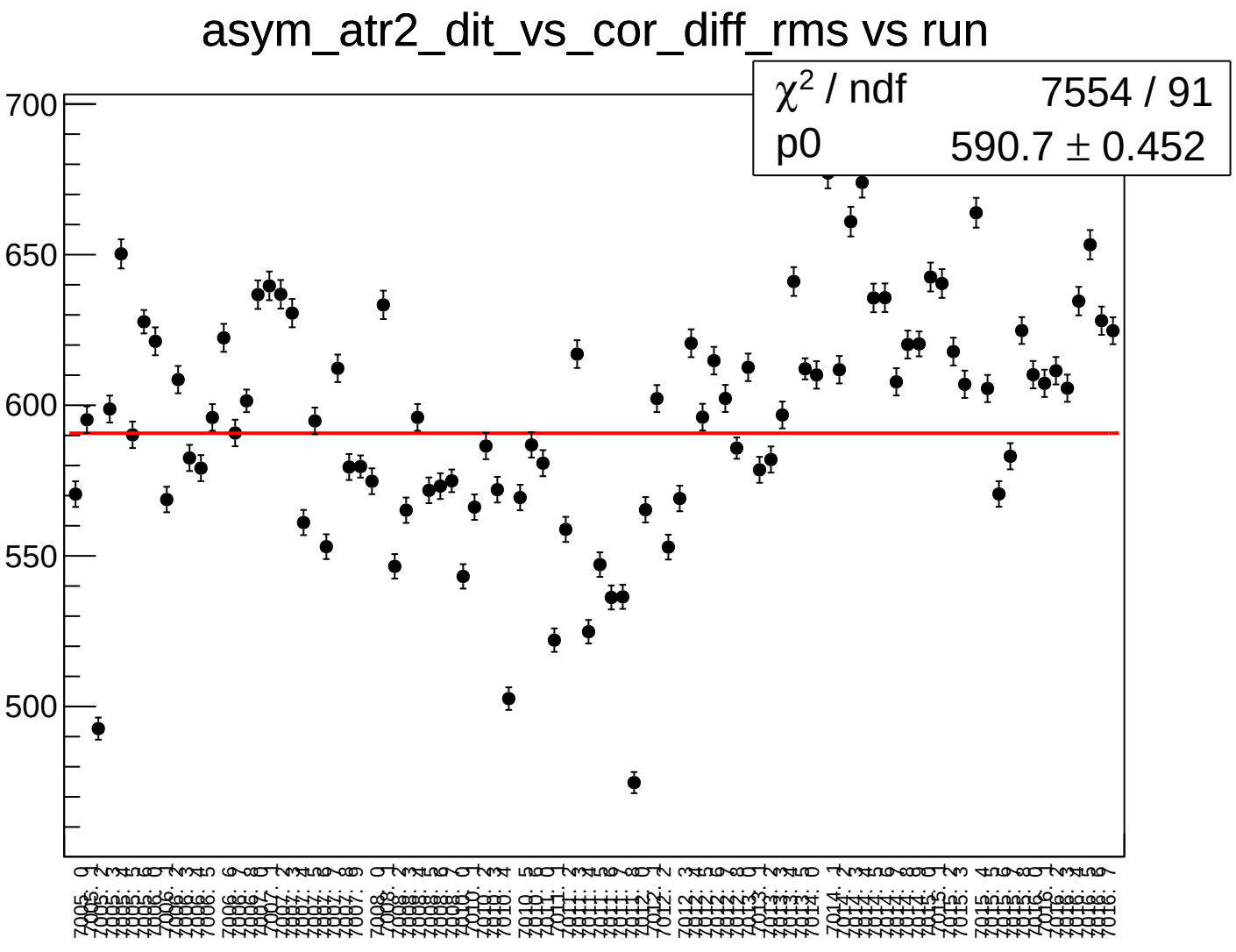

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 116.9 / 91
p0 −2.103e−14 ± 2.473e−13
0.08
0.06
0.04
0.02
0
−0.02
pull
Entries 92
Mean 24.68
Std Dev 0
2
1
0
−1
−2
−3

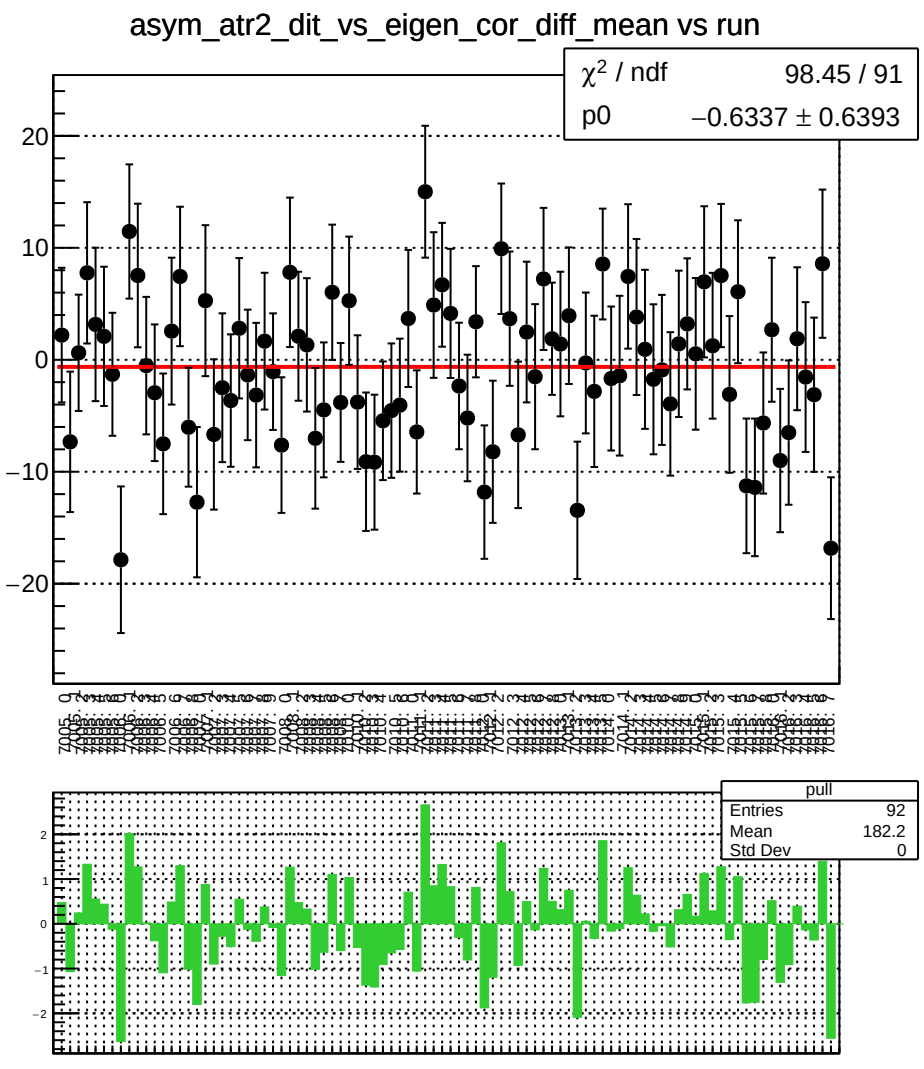

pull1D
Entries 92
Mean 0.0641
Std Dev 1.126
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

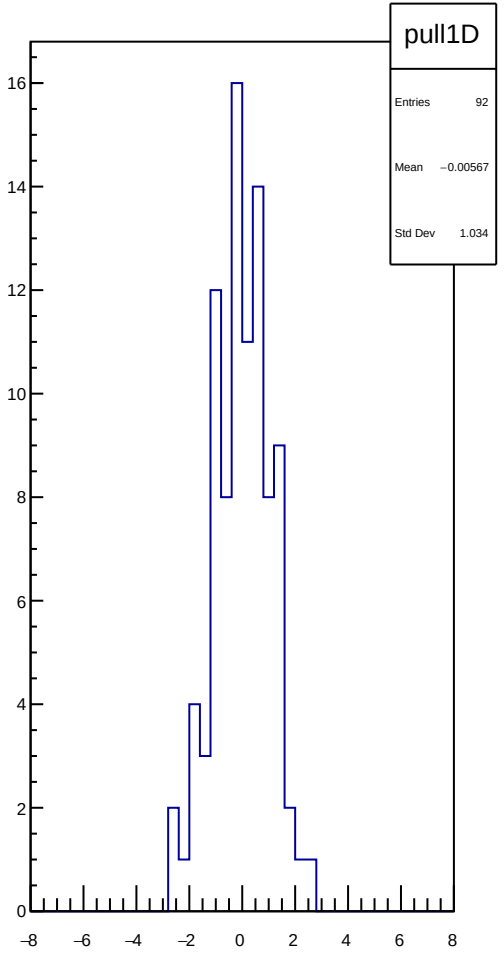

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 91
p0 1.398e−10 ± 1.749e−13
2.5
2
1.5
1
0.5
0

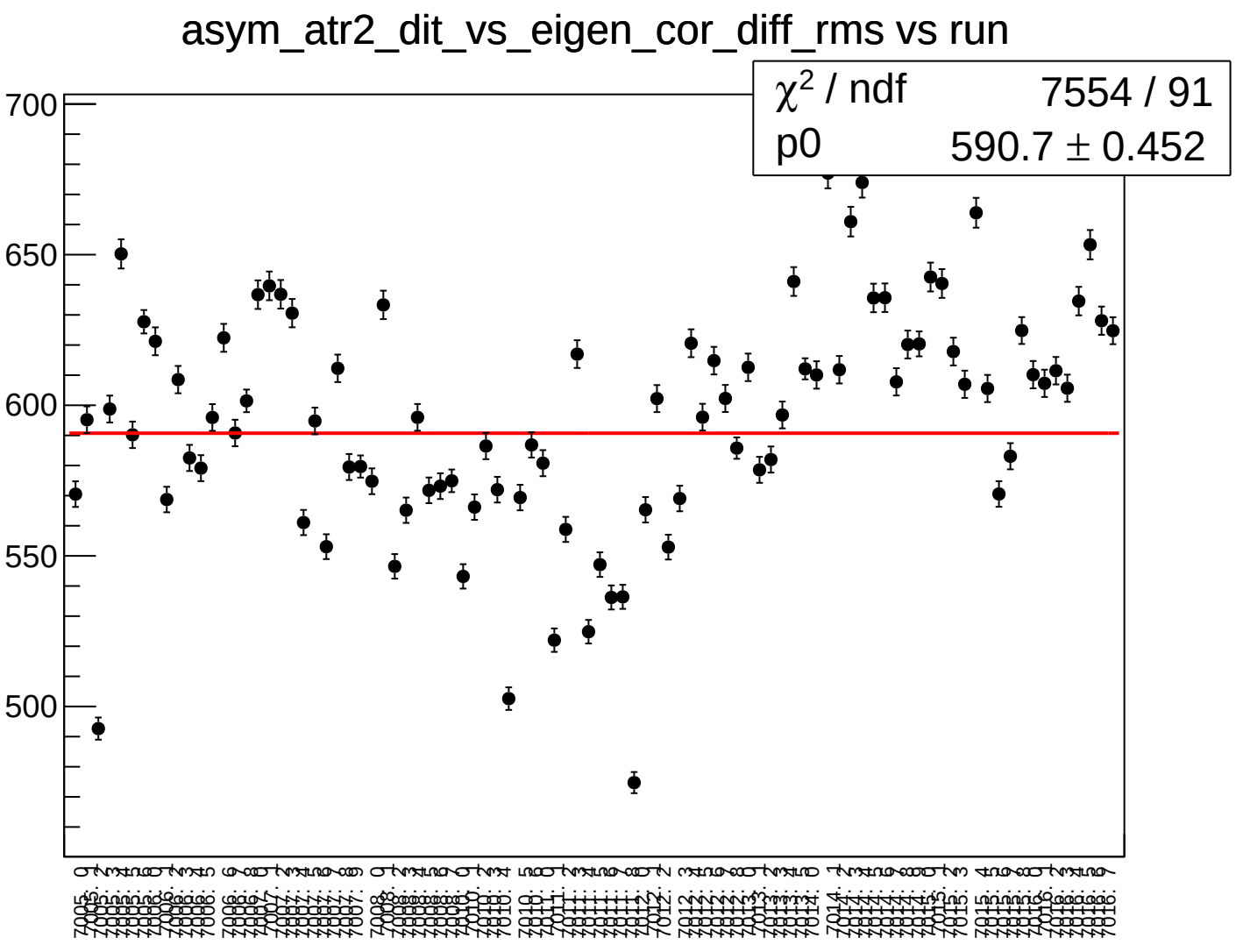

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 98.45 / 91
p0 −0.6337 ± 0.6393
pull
Entries 92
Mean 182.2
Std Dev 0

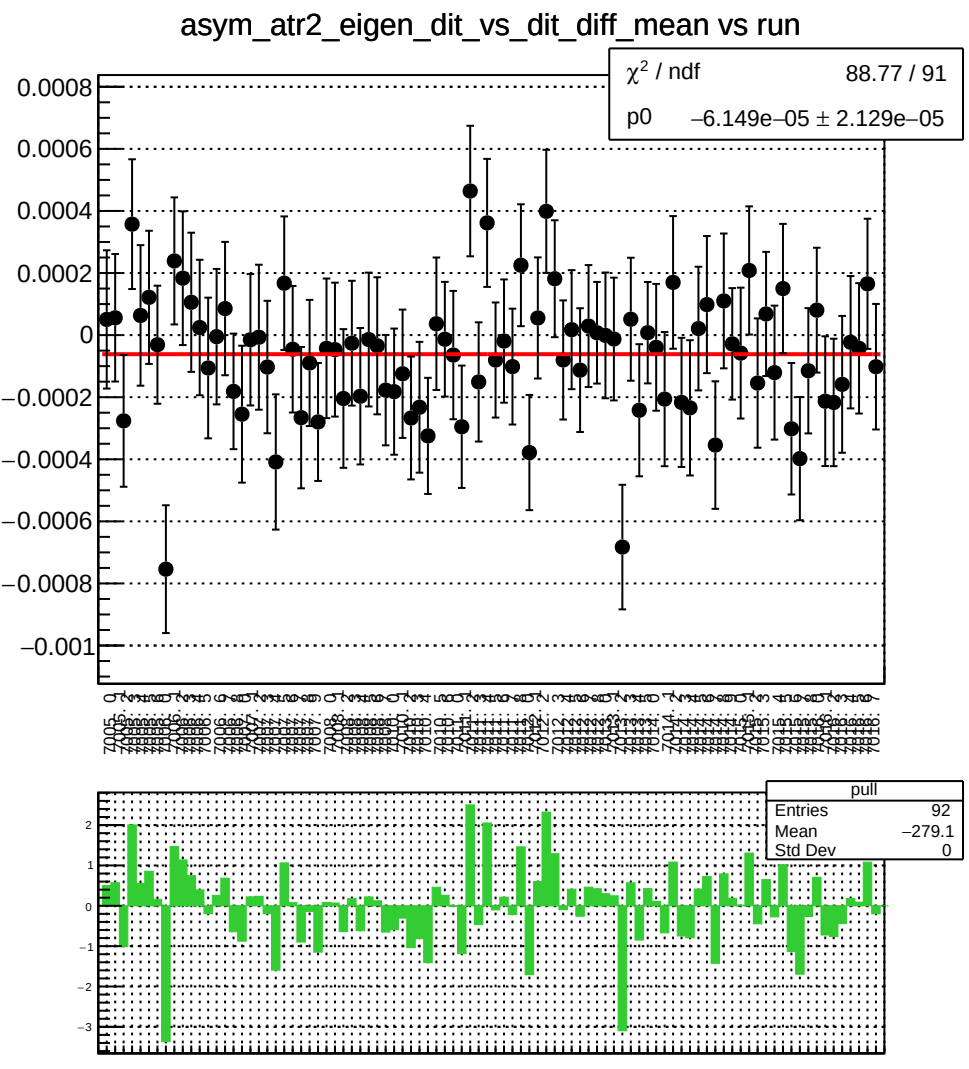

pull1D
Entries 92
Mean −0.00567
Std Dev 1.034

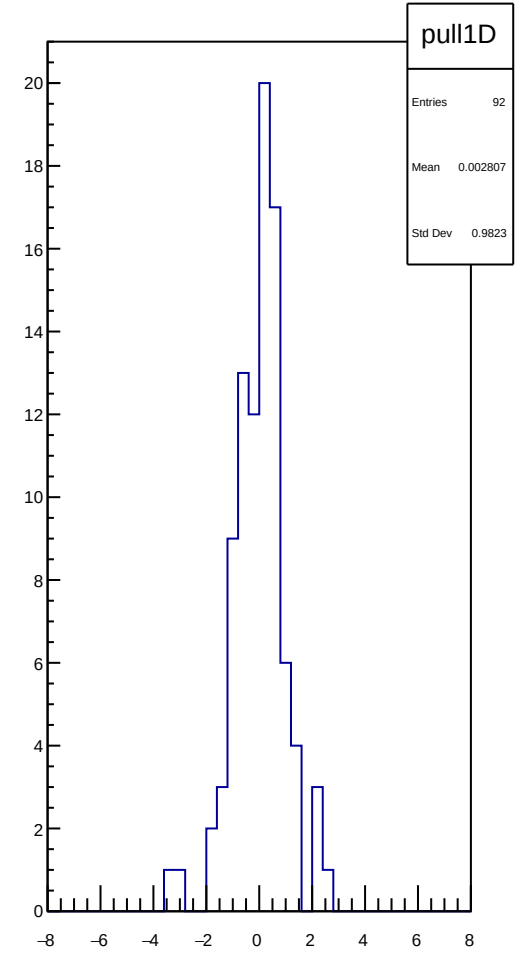

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 7554 / 91
p0 590.7 ± 0.452
700
650
600
550
500

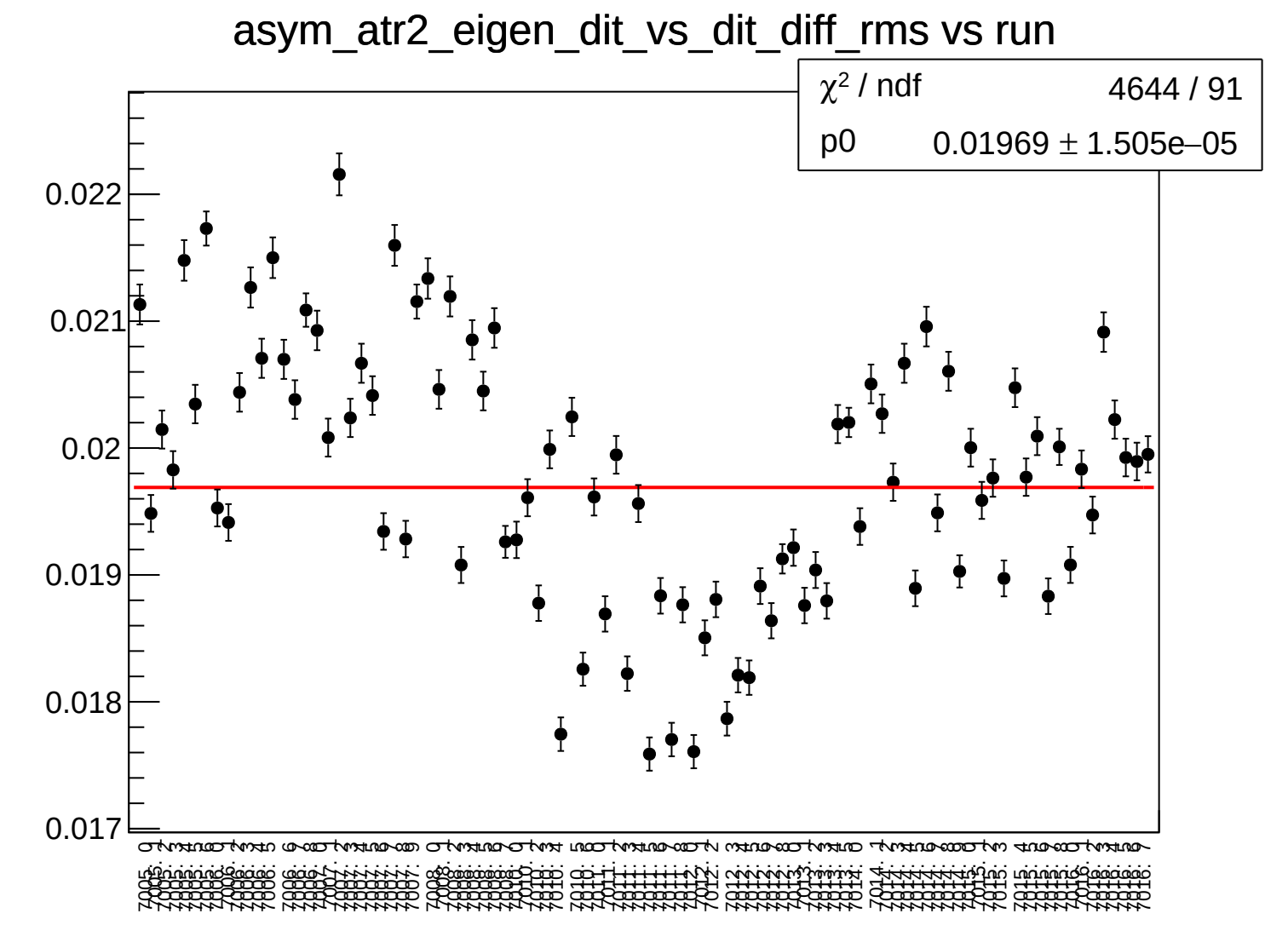

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.45 / 91
p0 −0.6337 ± 0.6393
pull
Entries 92
Mean 182.2
Std Dev 0

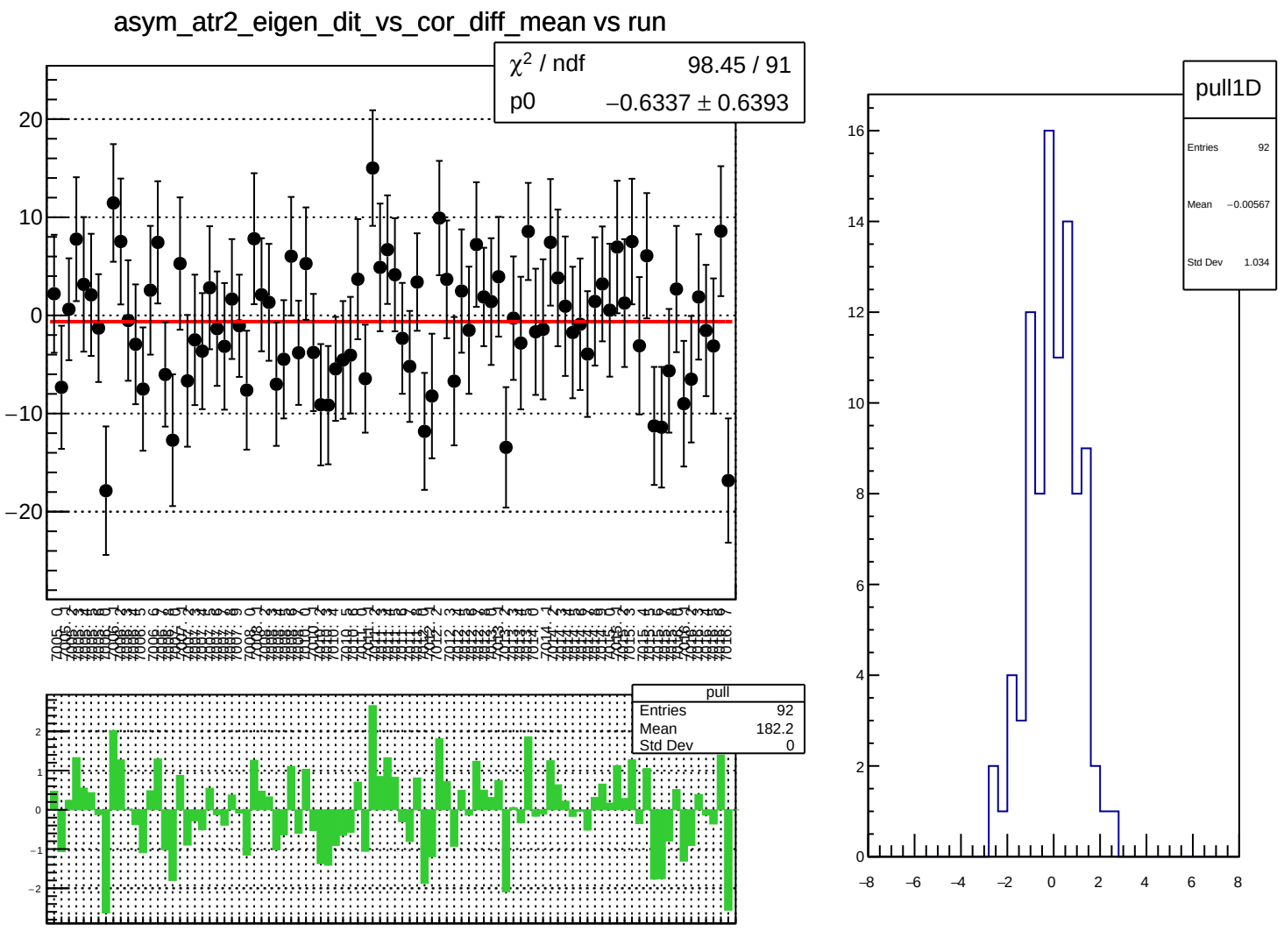

pull1D
Entries 92
Mean −0.00567
Std Dev 1.034

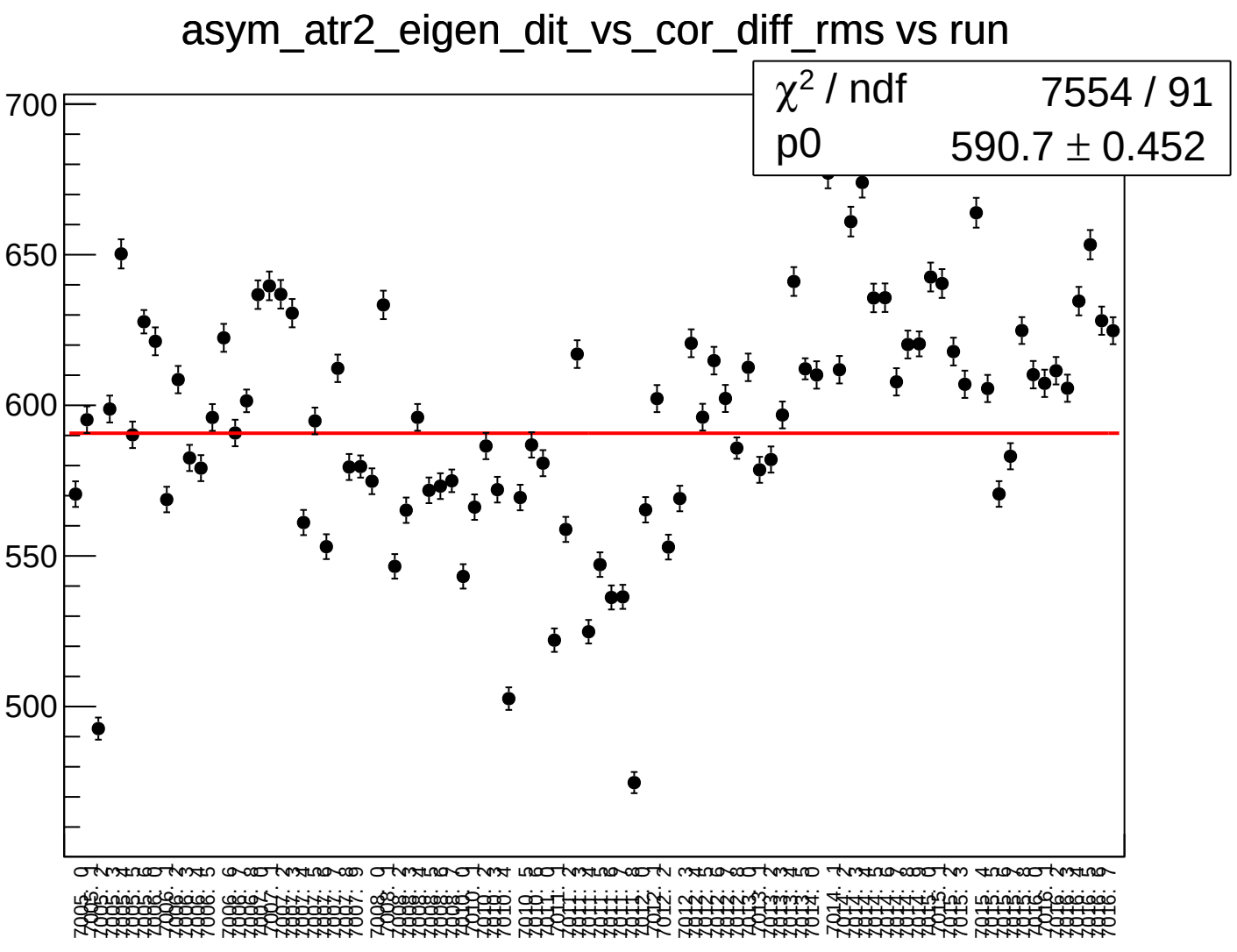

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7554 / 91
p0 590.7 ± 0.452
700
650
600
550
500

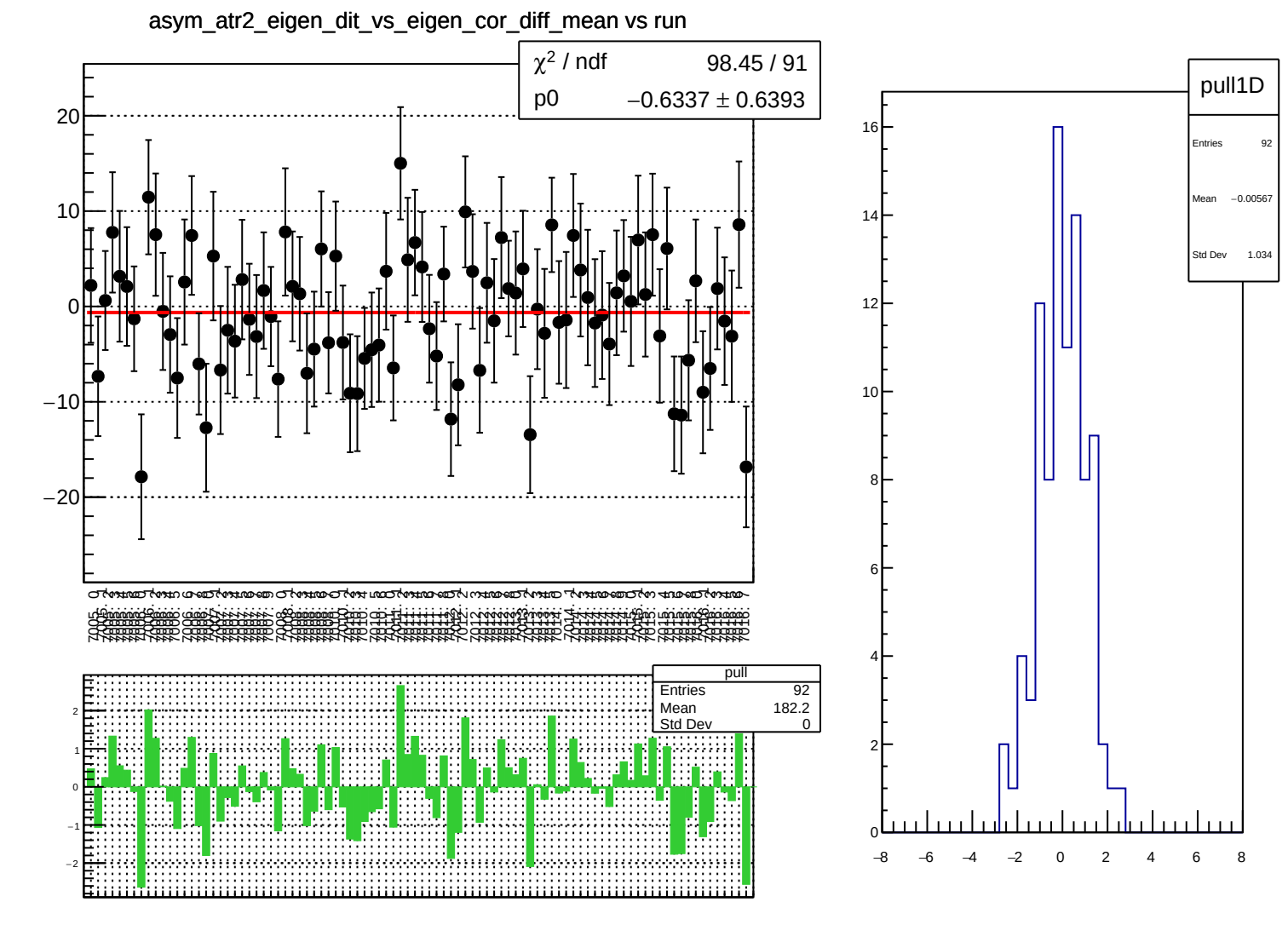

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 88.77 / 91
p0 −6.149e−05 ± 2.129e−05
pull
Entries 92
Mean −279.1
Std Dev 0

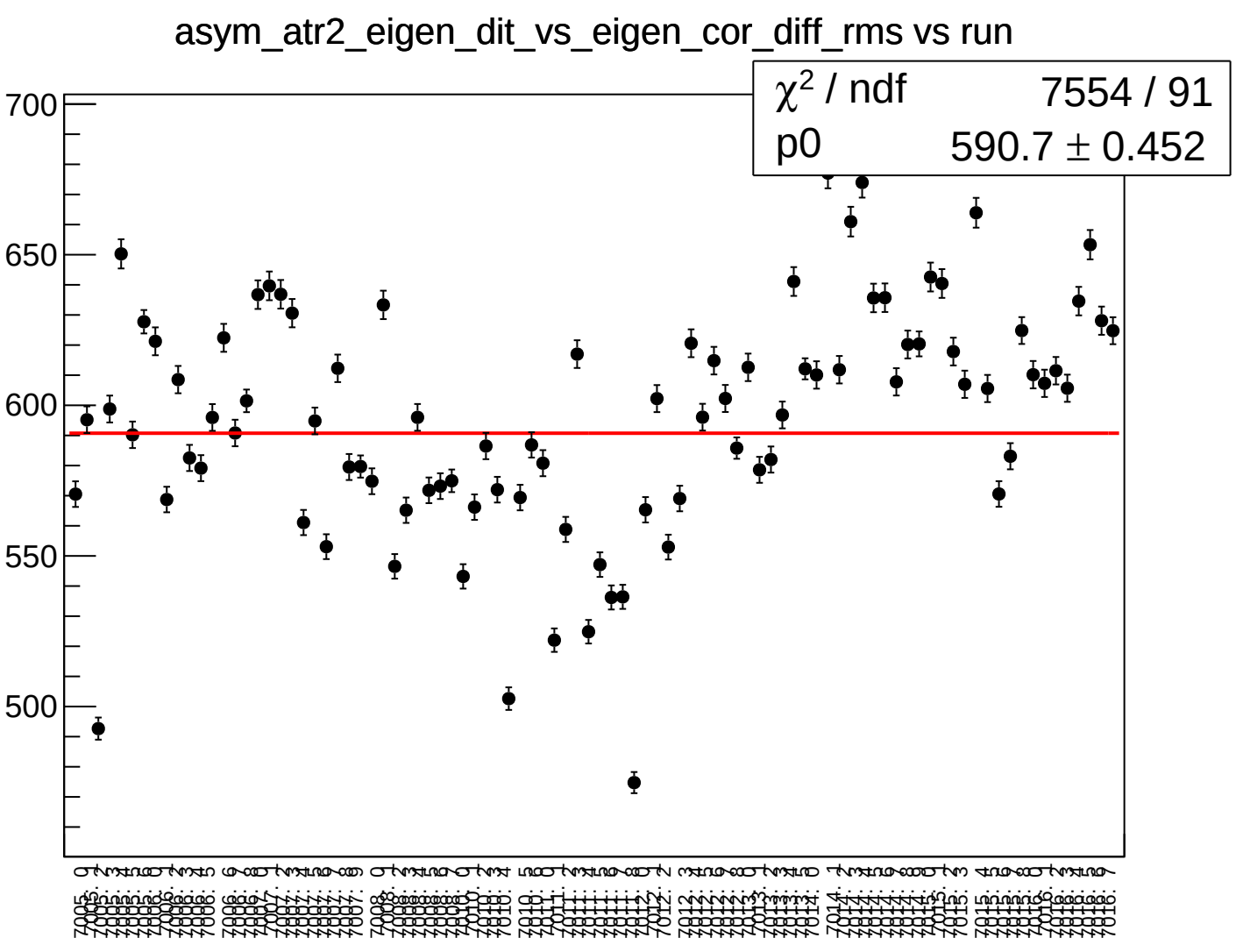

pull1D
Entries 92
Mean 0.002807
Std Dev 0.9823

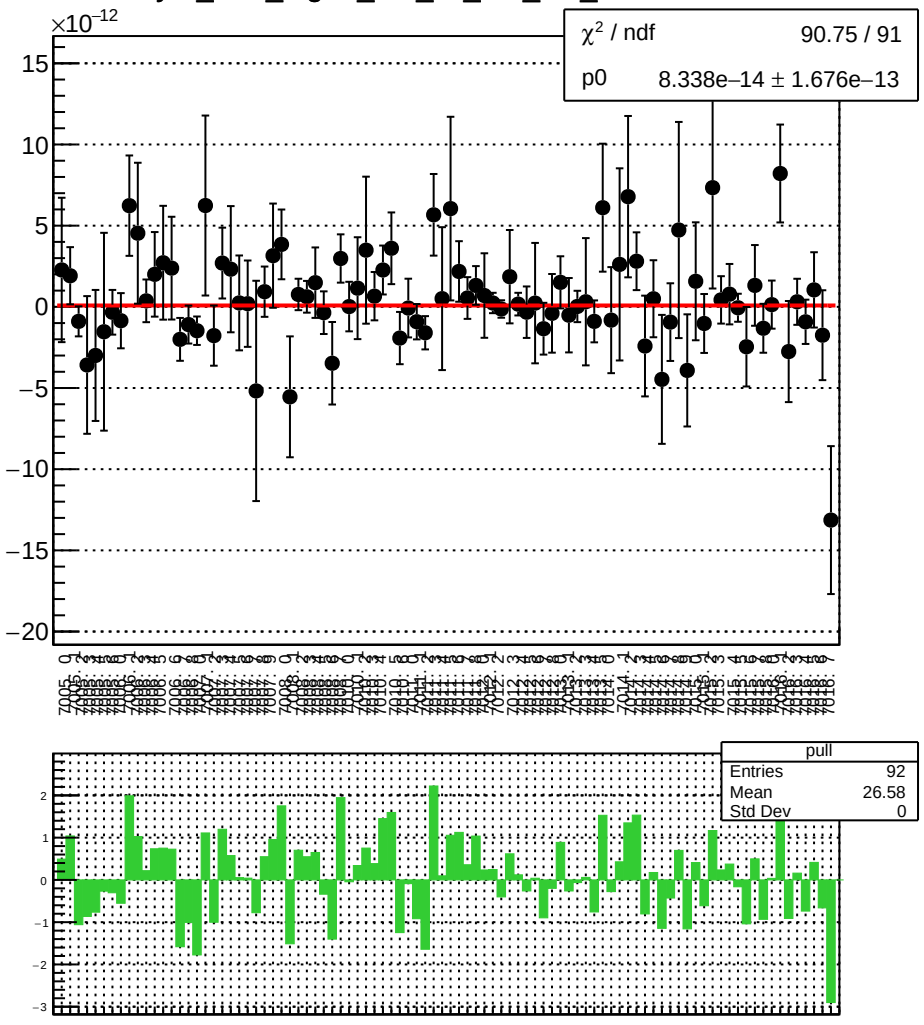

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4644 / 91
p0 0.01969 ± 1.505e−05
0.022
0.021
0.02
0.019
0.018
0.017

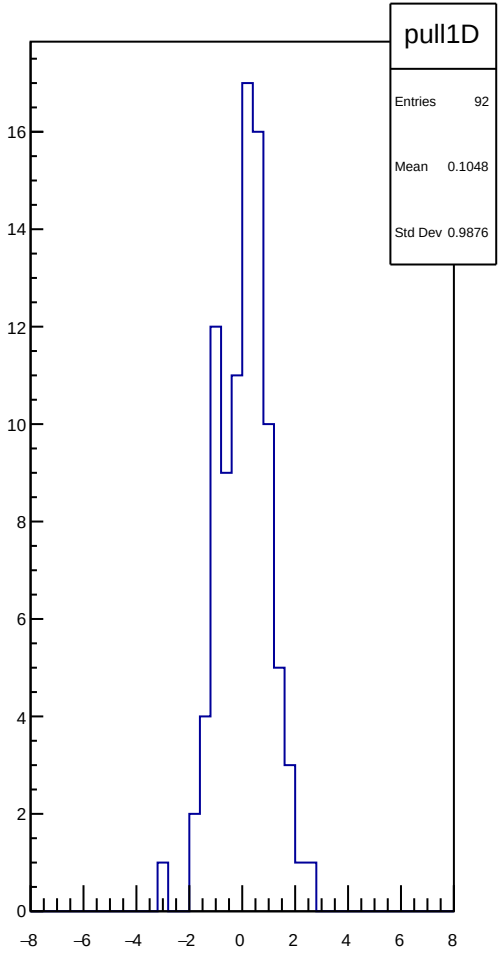

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.45 / 91
p0 −0.6337 ± 0.6393
pull
Entries 92
Mean 182.2
Std Dev 0
pull1D
Entries 92
Mean −0.00567
Std Dev 1.034

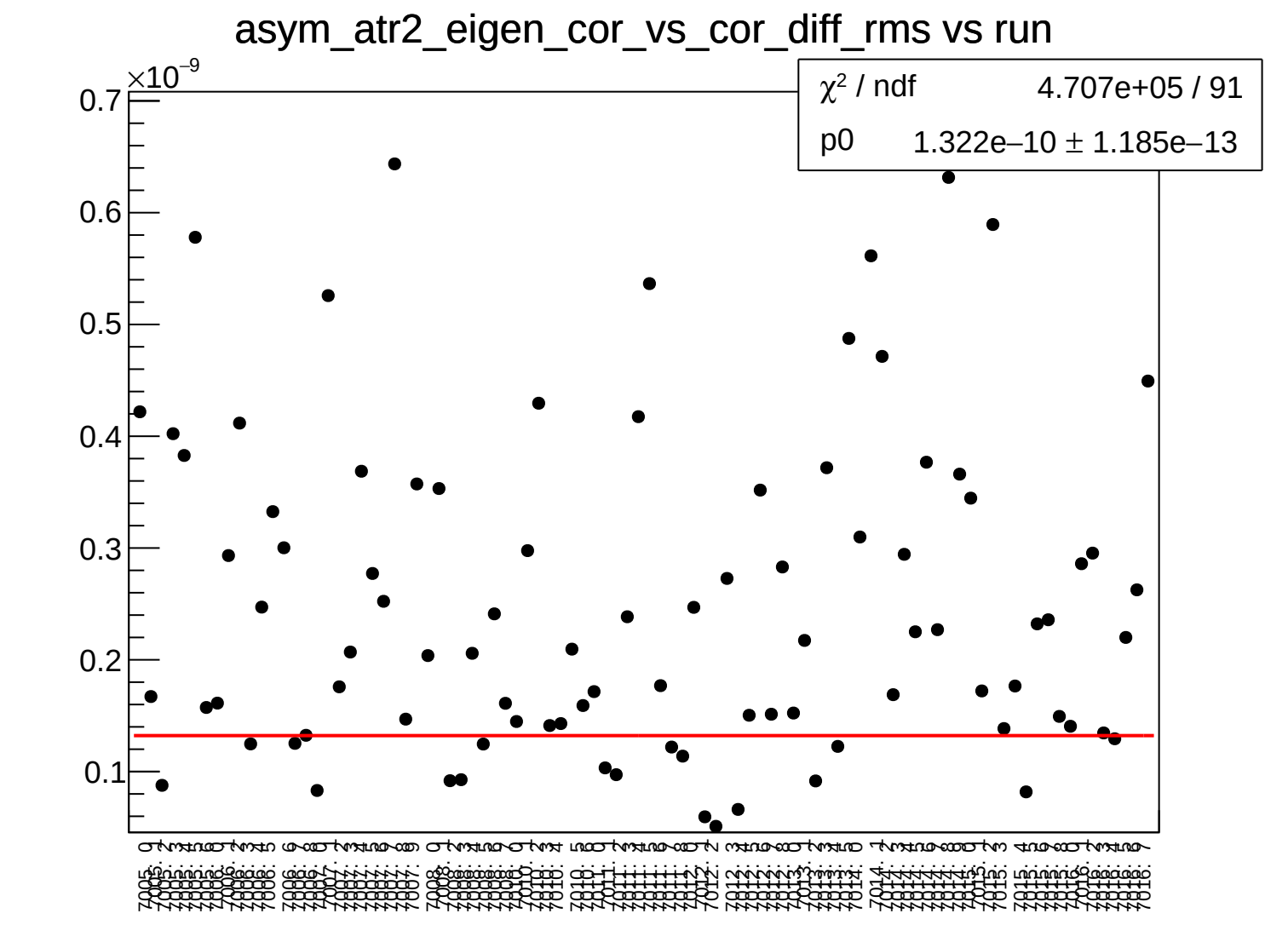

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7554 / 91
p0 590.7 ± 0.452
700
650
600
550
500

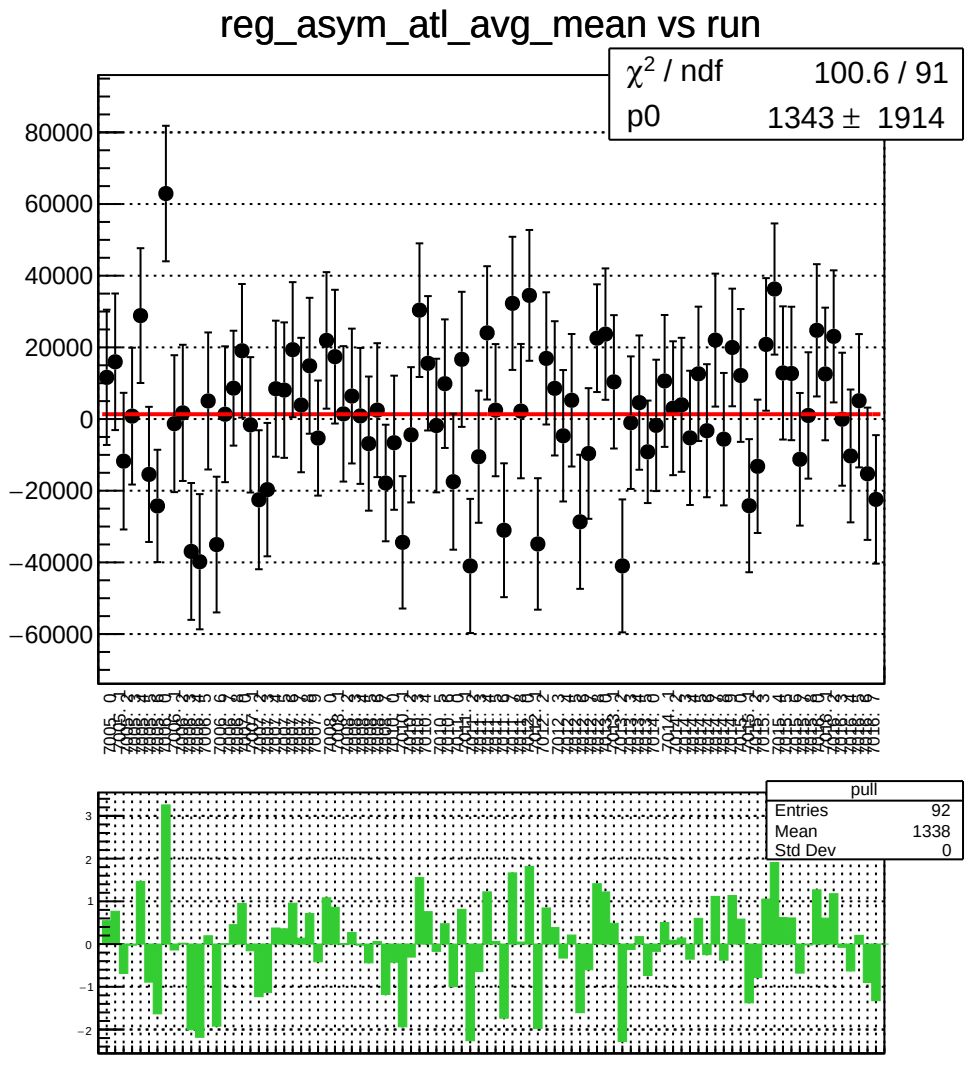

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.45 / 91
p0 −0.6337 ± 0.6393
pull
Entries 92
Mean 182.2
Std Dev 0
pull1D
Entries 92
Mean −0.00567
Std Dev 1.034

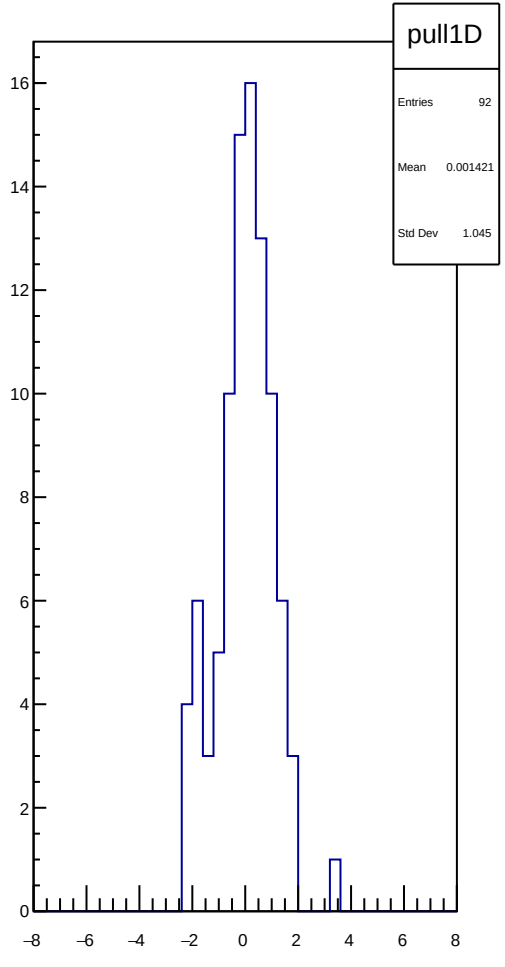

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7554 / 91
p0 590.7 ± 0.452
700
650
600
550
500

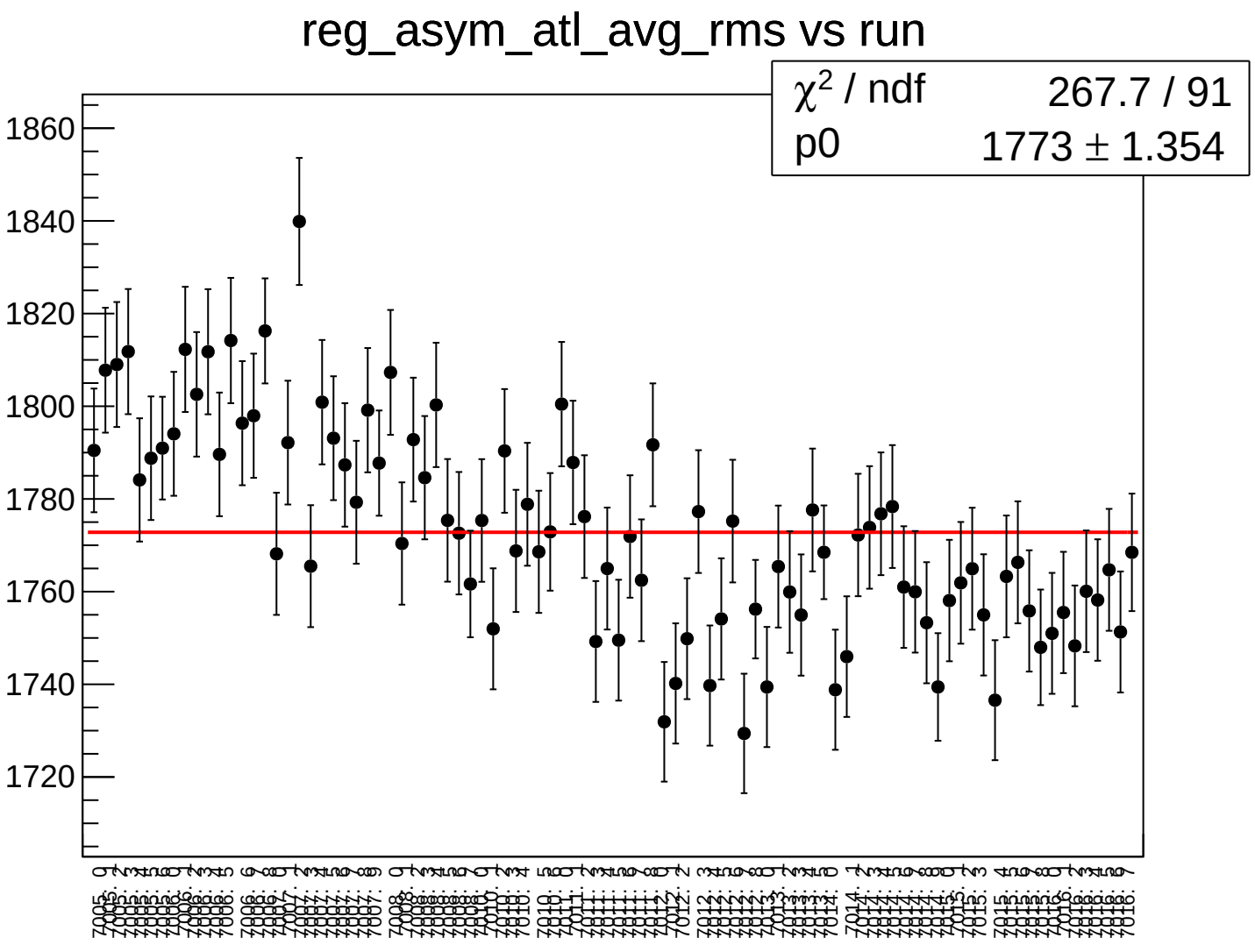

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.75 / 91
p0 8.338e−14 ± 1.676e−13
pull
Entries 92
Mean 26.58
Std Dev 0

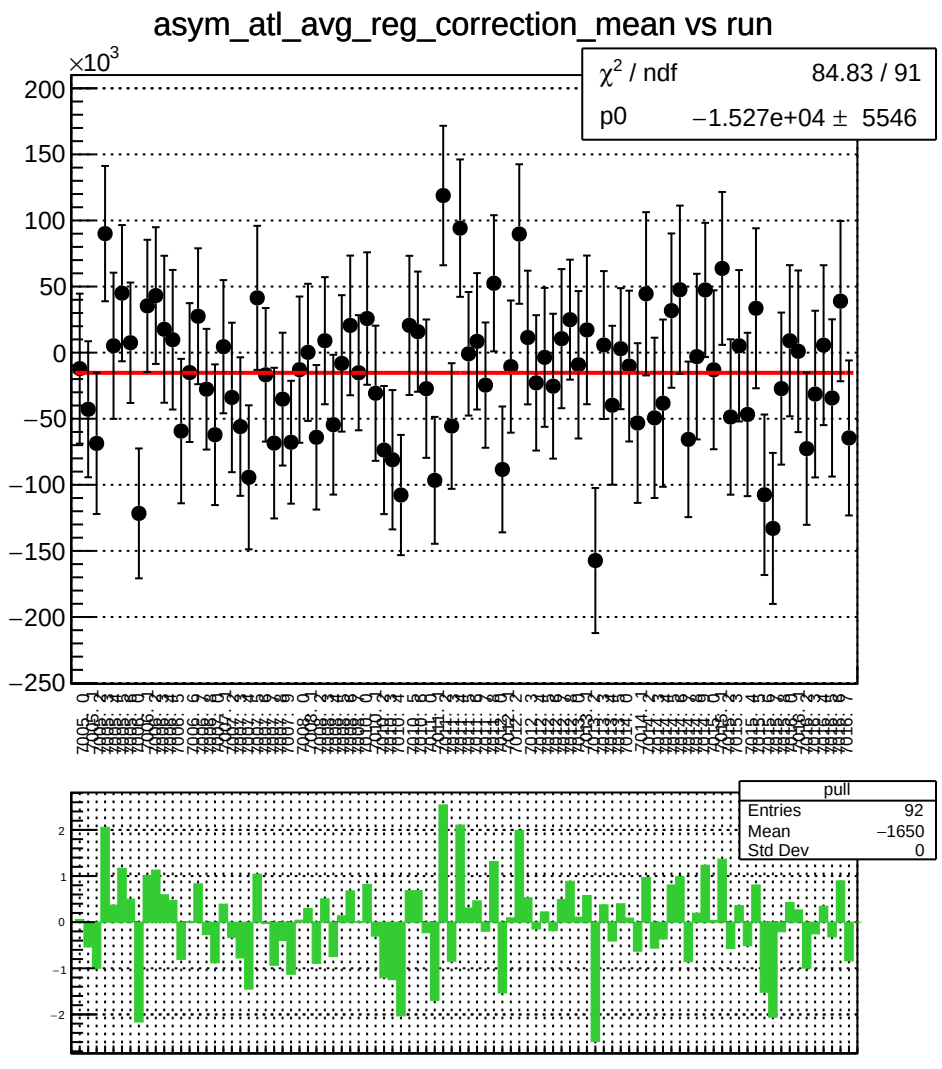

pull1D
Entries 92
Mean 0.1048
Std Dev 0.9876

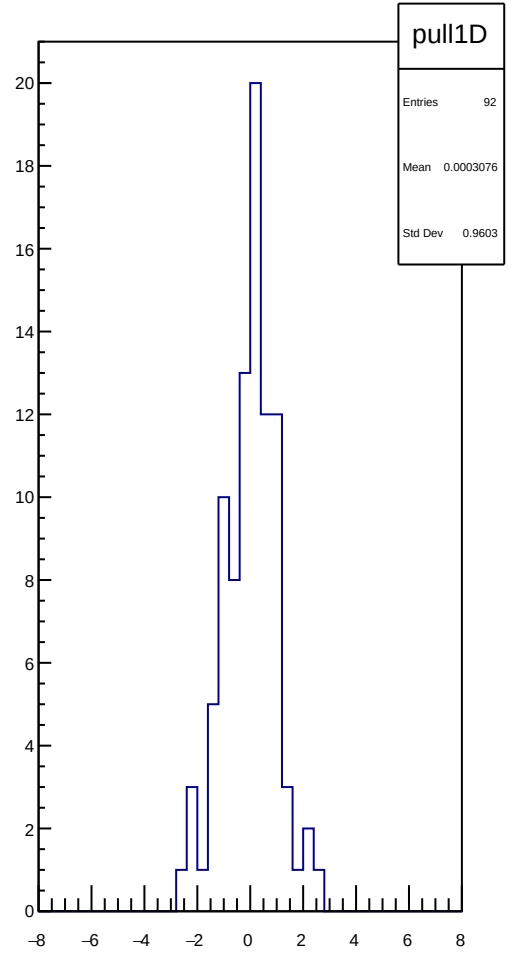

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 4.707e+05 / 91
p0 1.322e−10 ± 1.185e−13

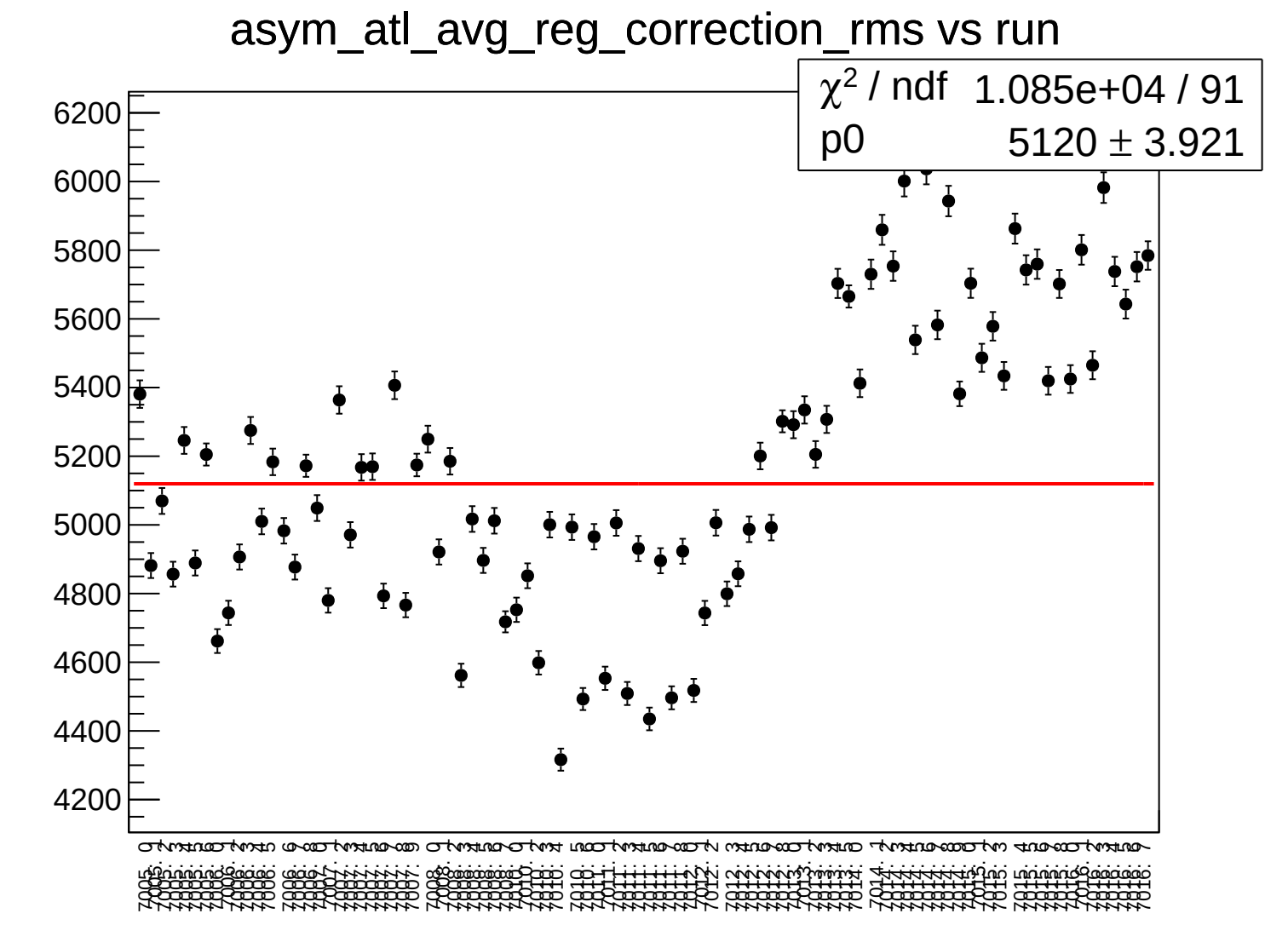

reg_asym_atl_avg_mean vs run
χ² / ndf 100.6 / 91
p0 1343 ± 1914
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1338
Std Dev 0
3
2
1
0
−1
−2

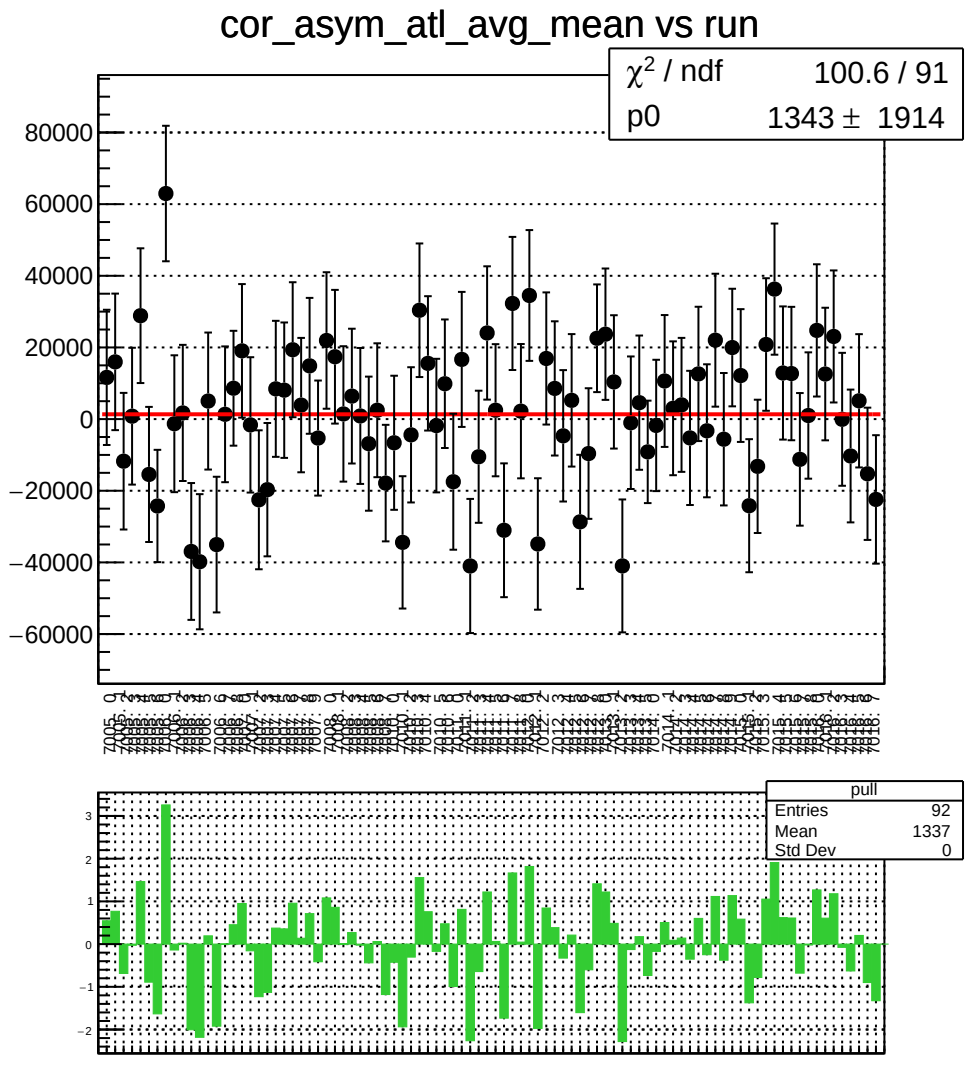

pull1D
Entries 92
Mean 0.001421
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

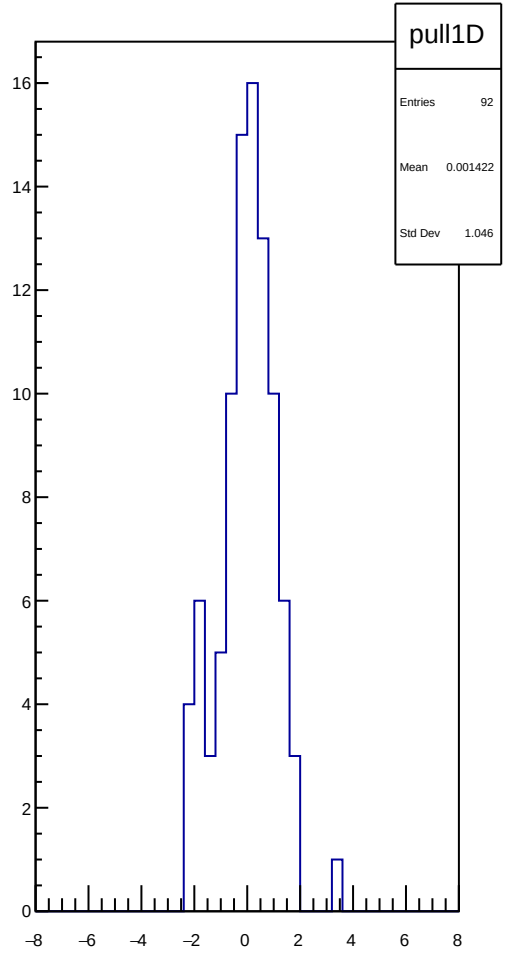

reg_asym_atl_avg_rms vs run
$\chi^2$ / ndf 267.7 / 91
p0 1773 ± 1.354
1860
1840
1820
1800
1780
1760
1740
1720

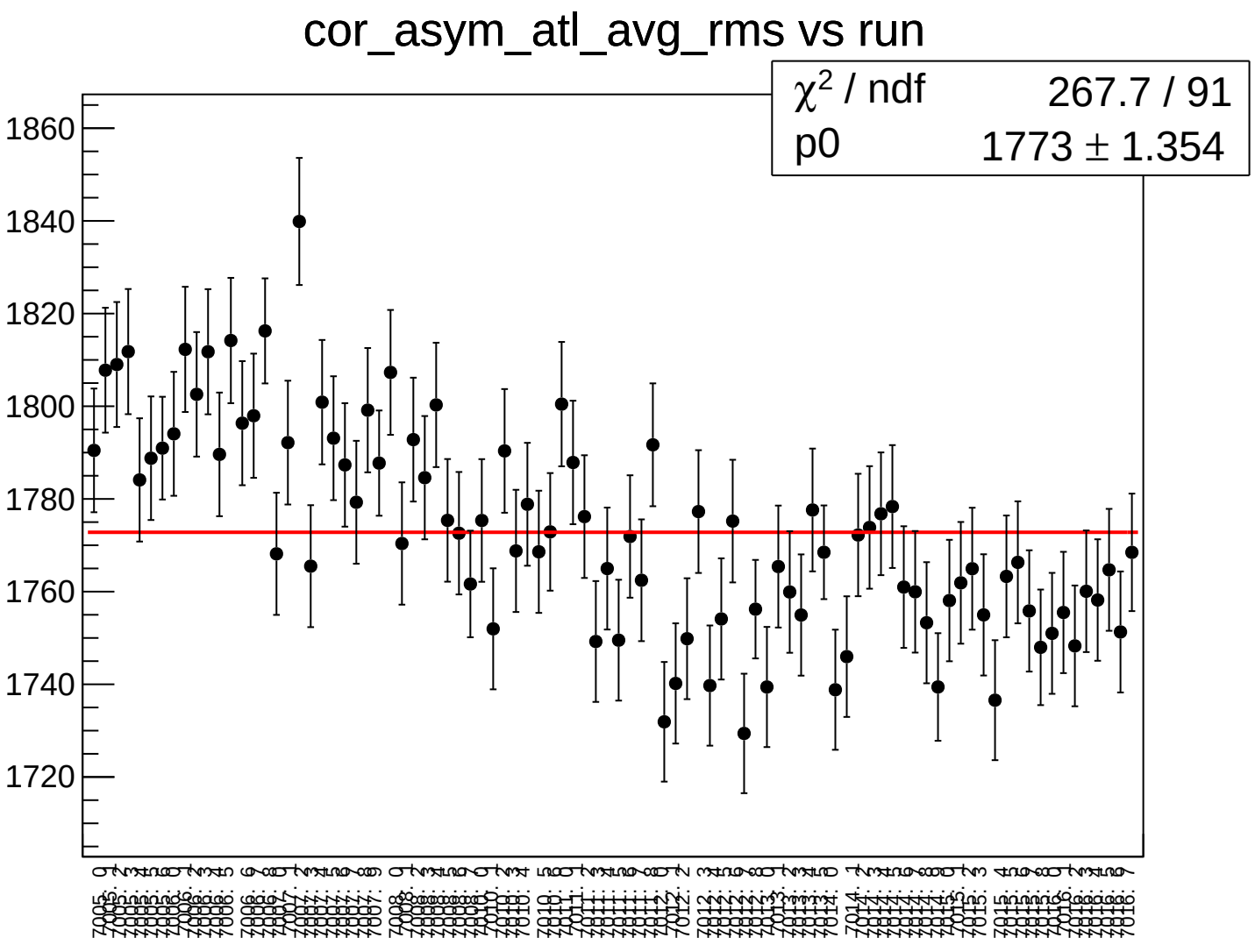

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.83 / 91
p0 −1.527e+04 ± 5546
pull
Entries 92
Mean −1650
Std Dev 0

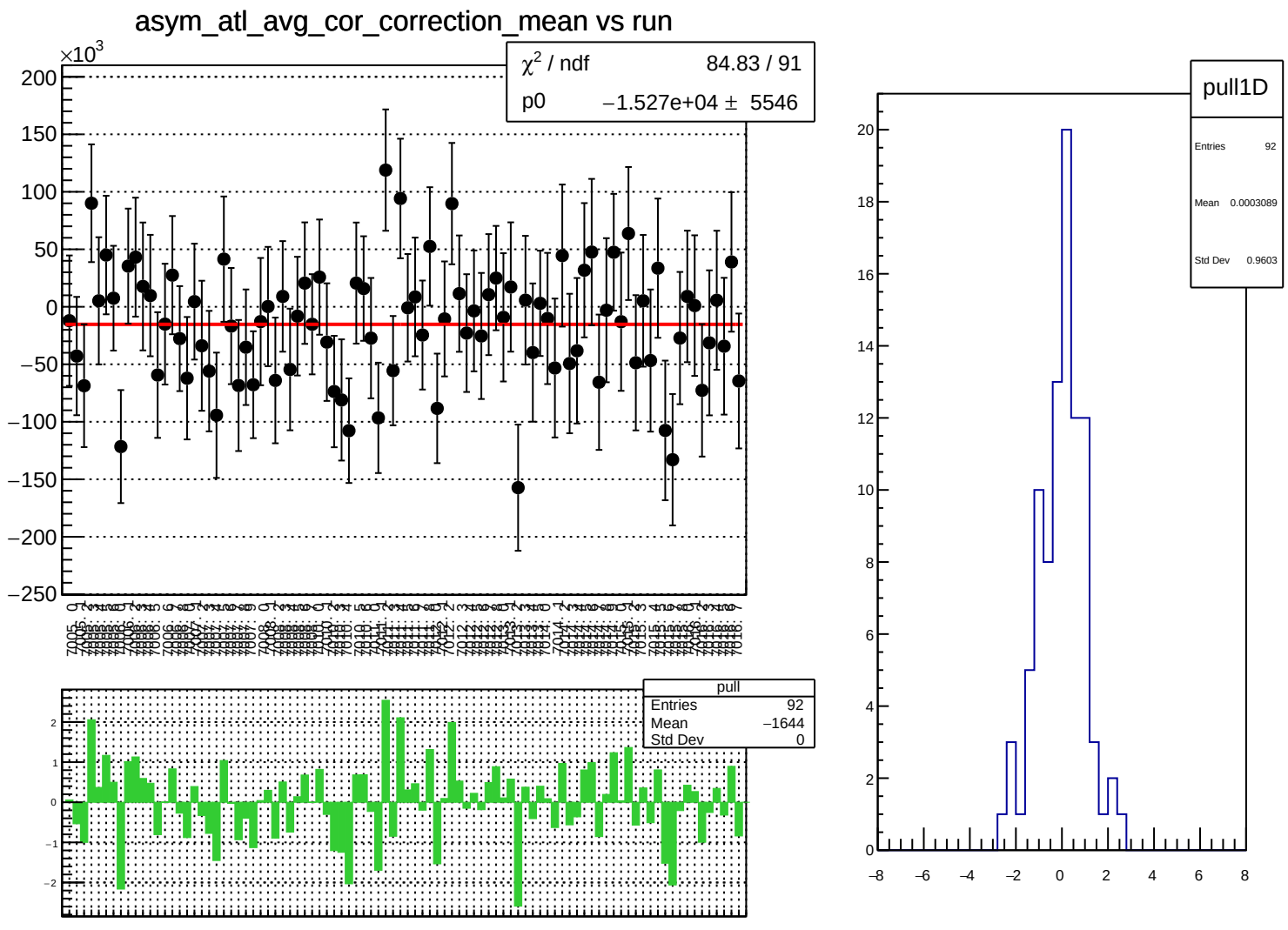

pull1D
Entries 92
Mean 0.0003076
Std Dev 0.9603

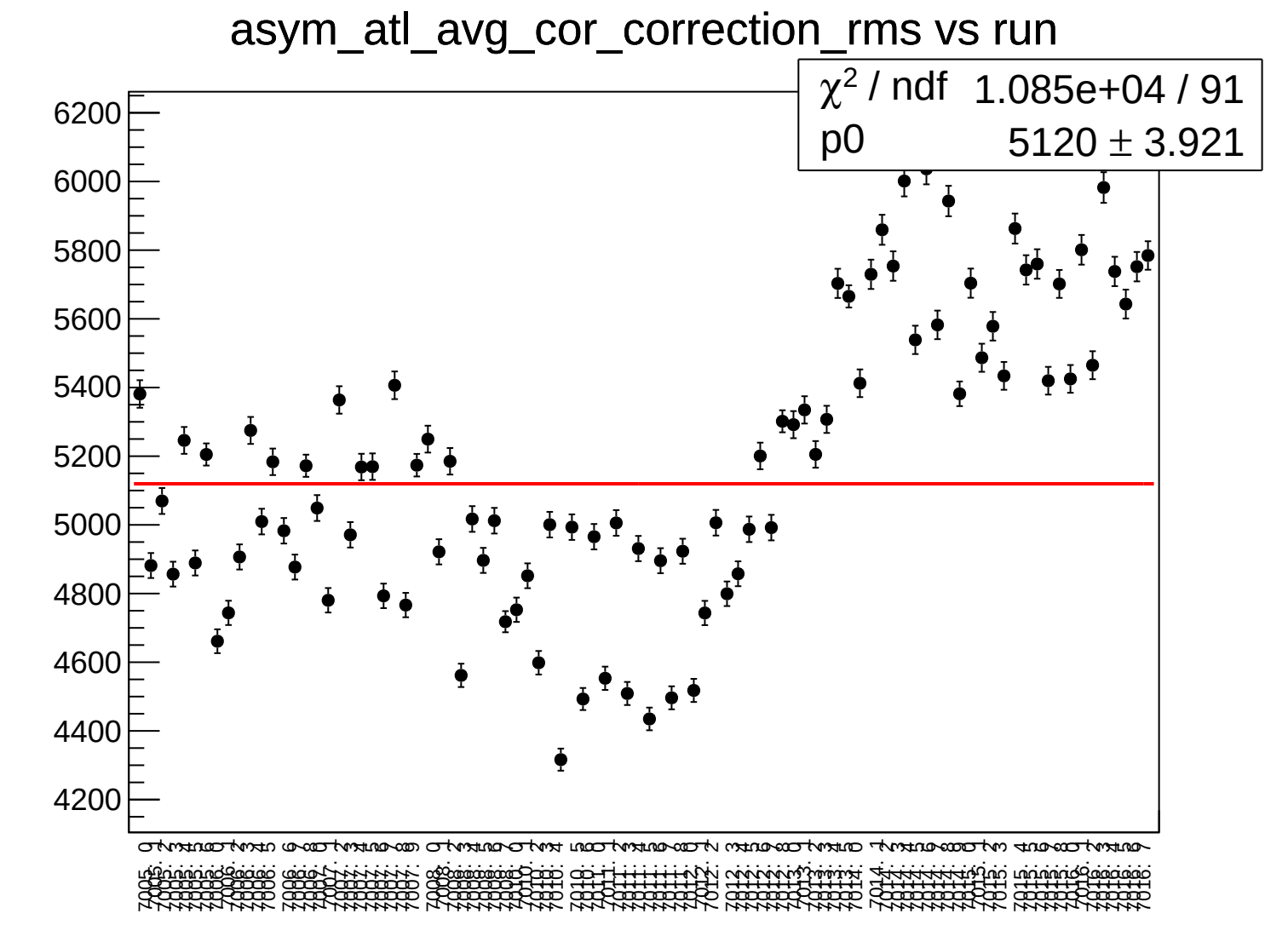

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 1.085e+04 / 91
p0 5120 ± 3.921
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

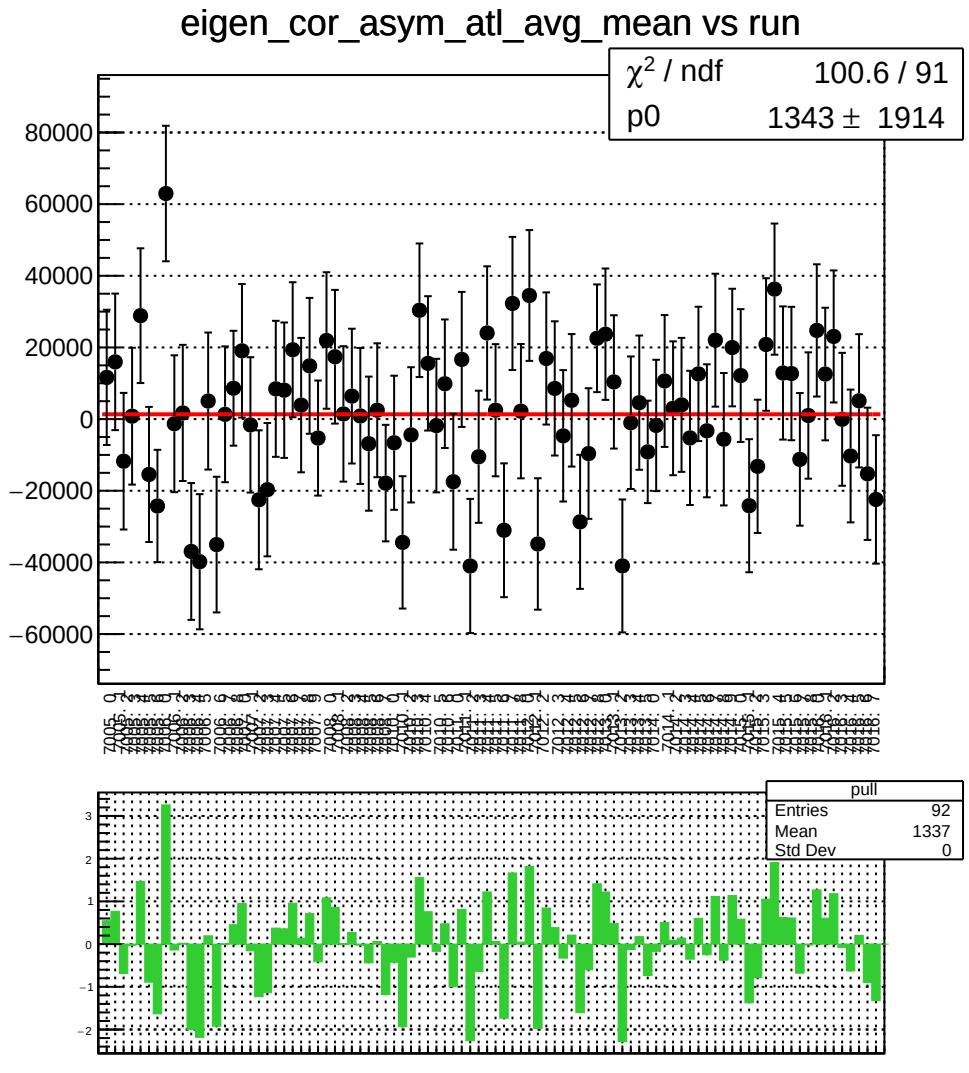

cor_asym_atl_avg_mean vs run
χ² / ndf 100.6 / 91
p0 1343 ± 1914
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1337
Std Dev 0
3
2
1
0
−1
−2

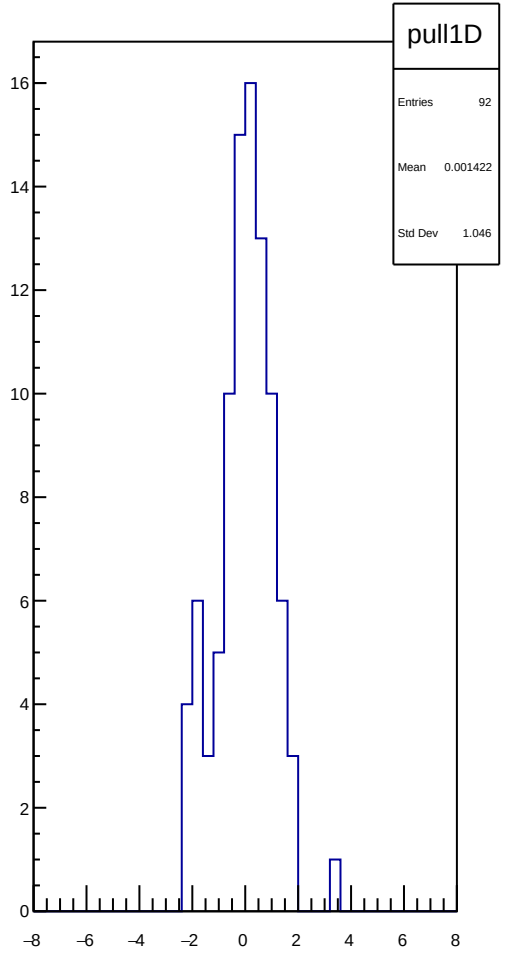

pull1D
Entries 92
Mean 0.001422
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

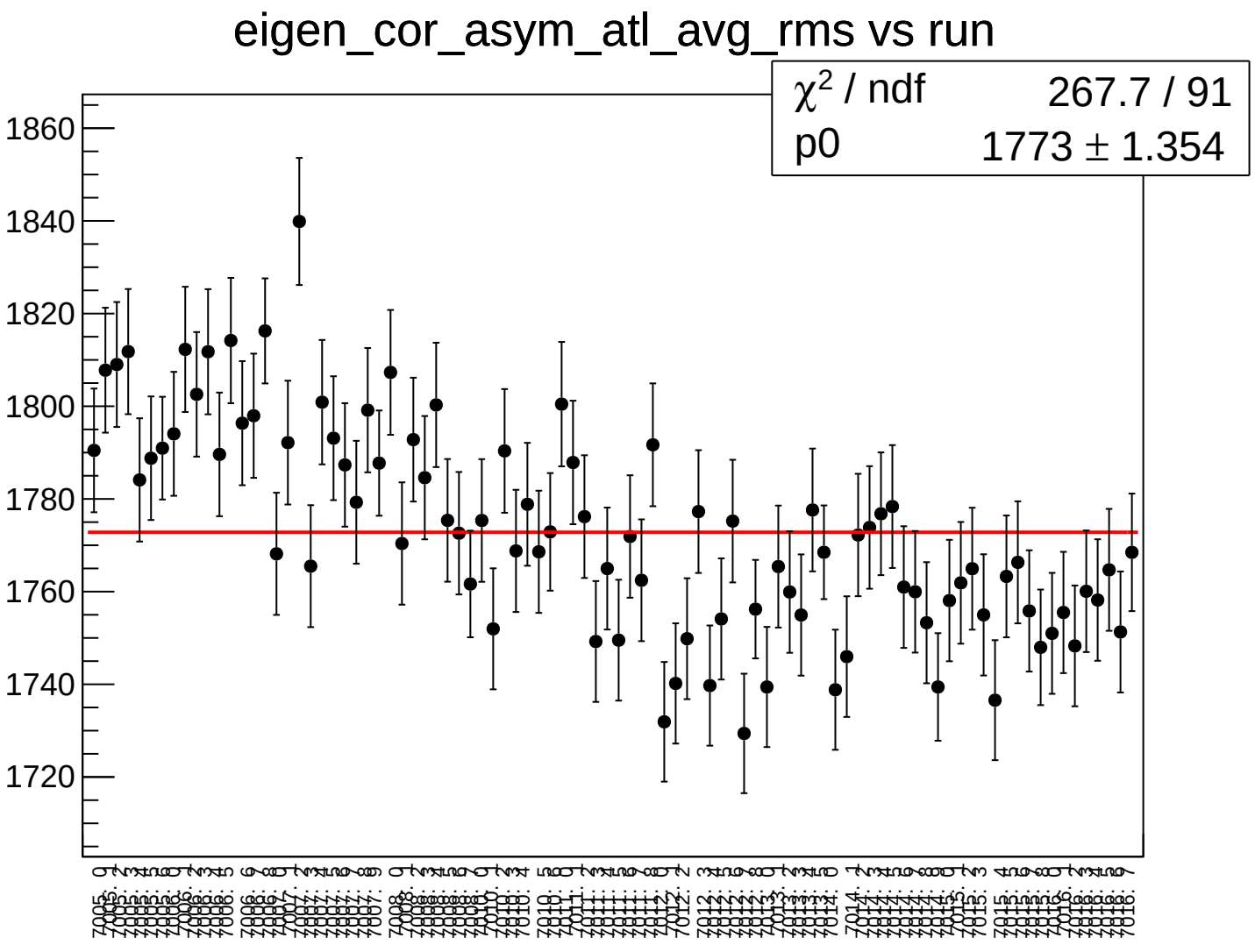

cor_asym_atl_avg_rms vs run
$\chi^2$ / ndf 267.7 / 91
p0 1773 ± 1.354
1860
1840
1820
1800
1780
1760
1740
1720

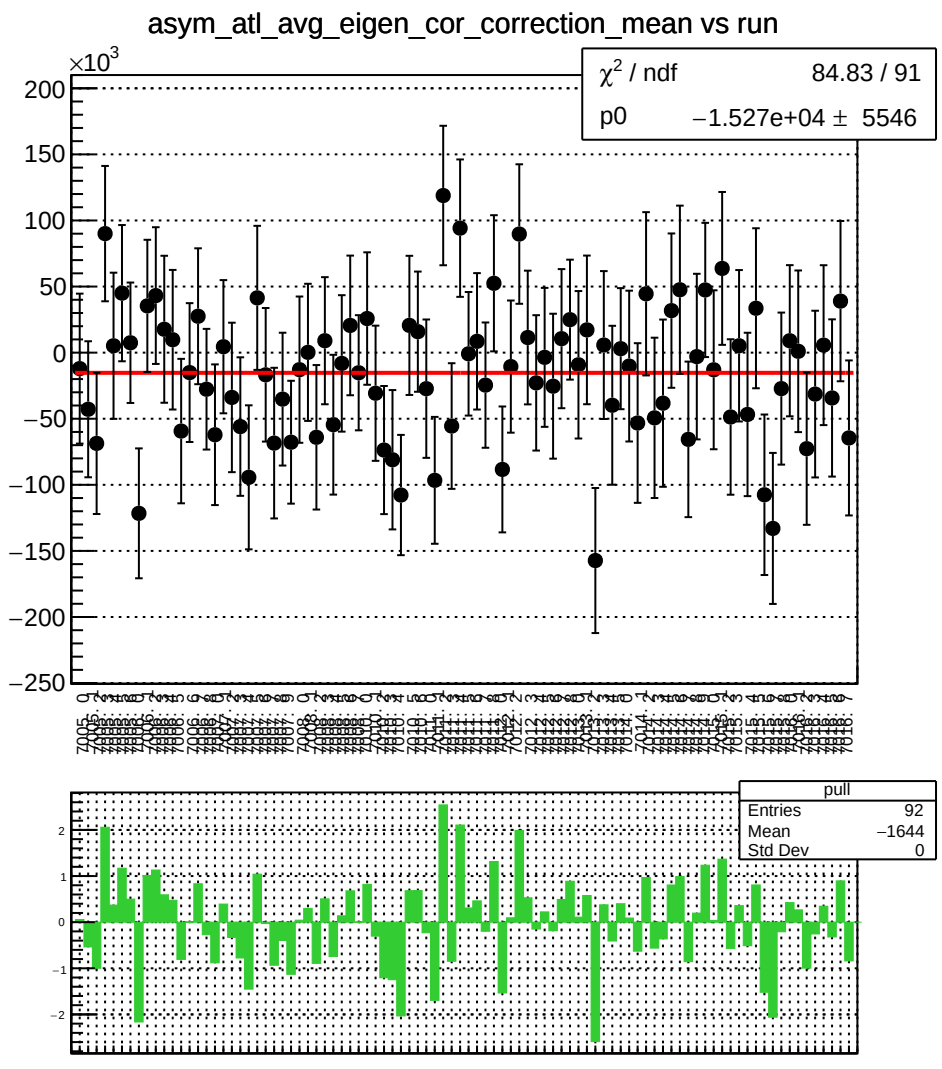

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.83 / 91
p0 −1.527e+04 ± 5546
pull
Entries 92
Mean −1644
Std Dev 0
pull1D
Entries 92
Mean 0.0003089
Std Dev 0.9603

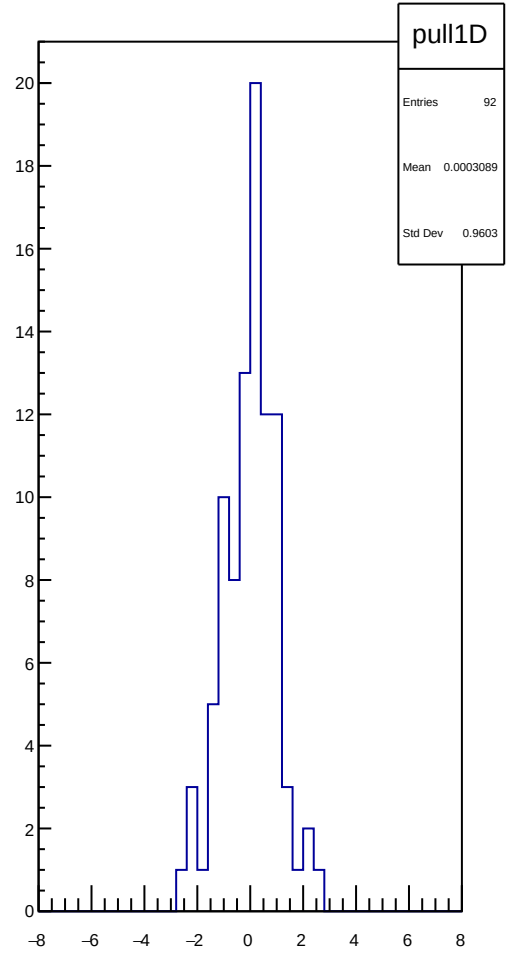

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 1.085e+04 / 91
p0 5120 ± 3.921
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

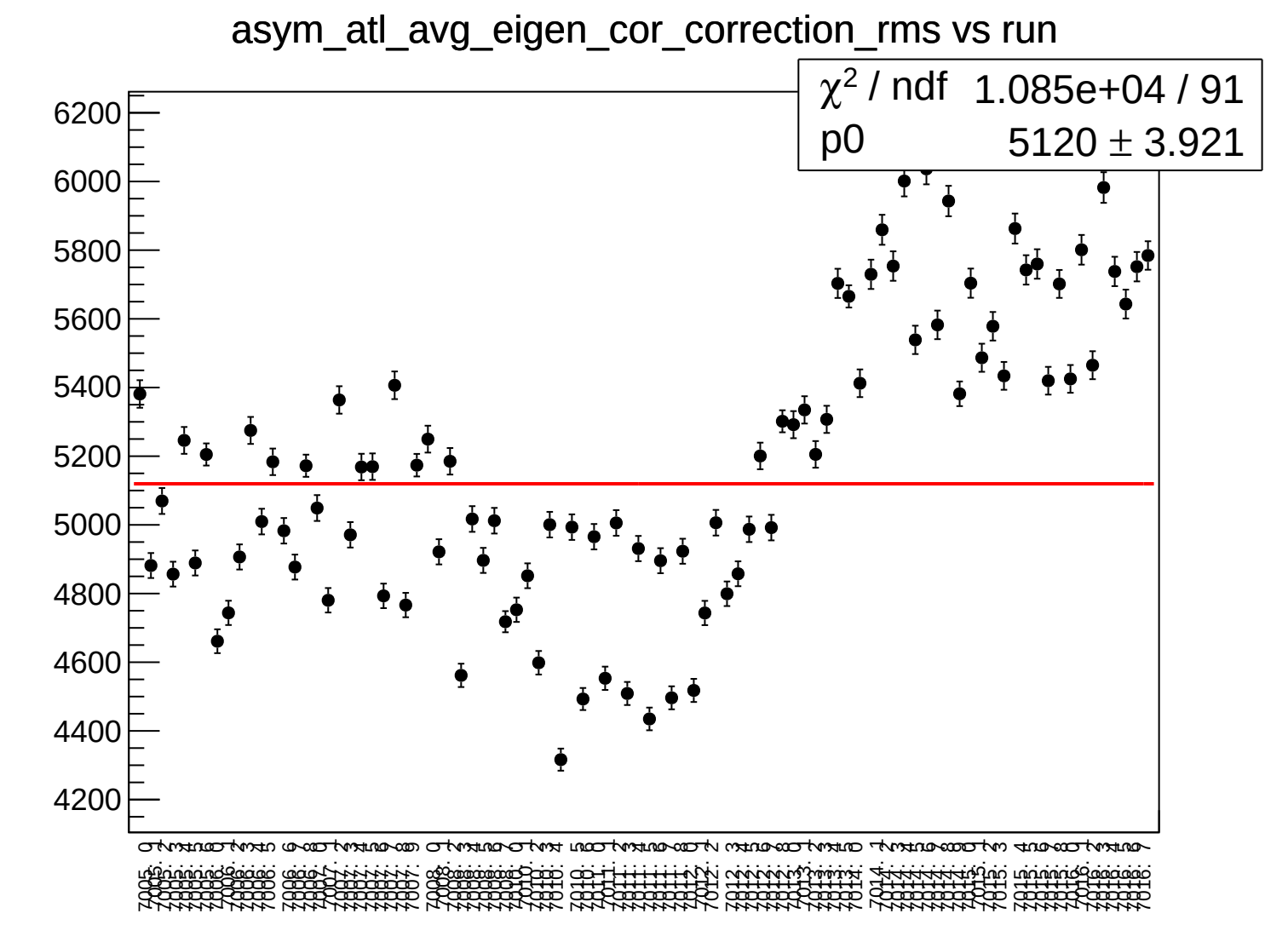

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 100.6 / 91
p0 1343 ± 1914
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 1337
Std Dev 0
3
2
1
0
−1
−2

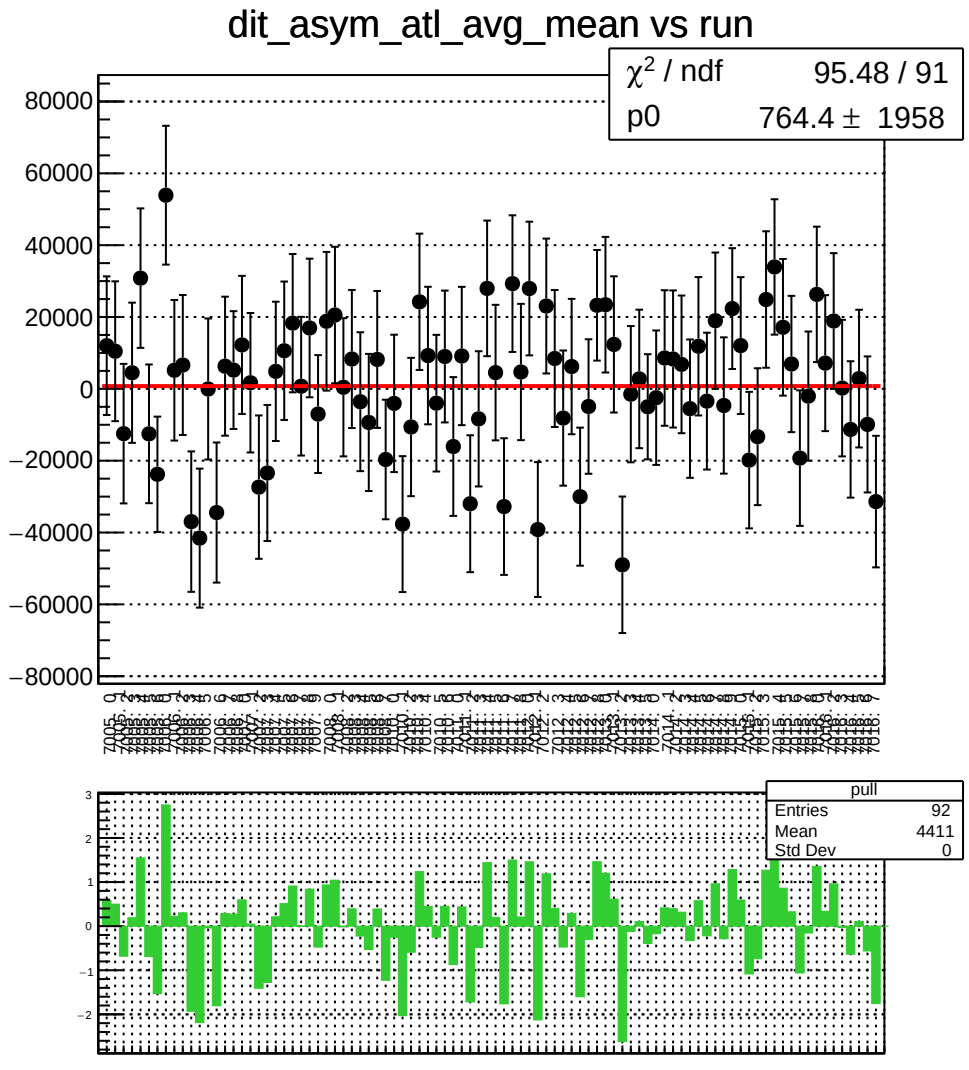

pull1D
Entries 92
Mean 0.001422
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

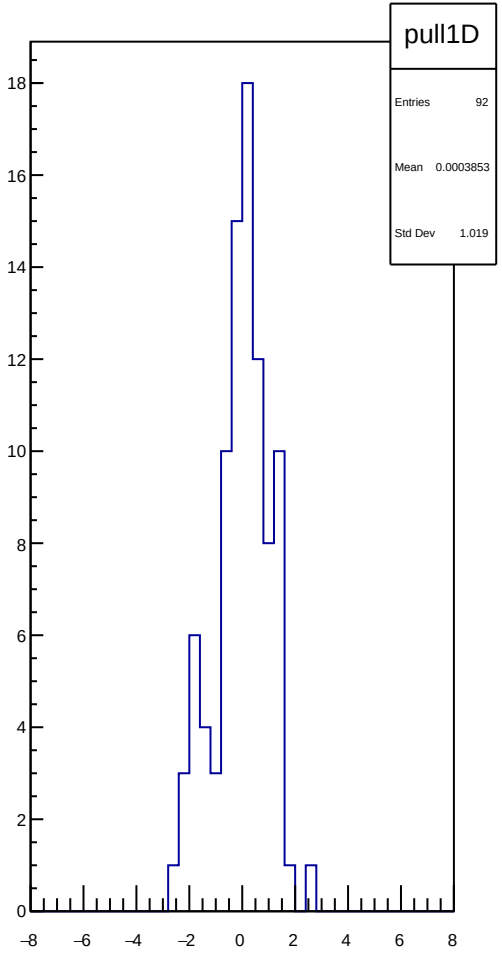

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 267.7 / 91
p0 1773 ± 1.354
1860
1840
1820
1800
1780
1760
1740
1720

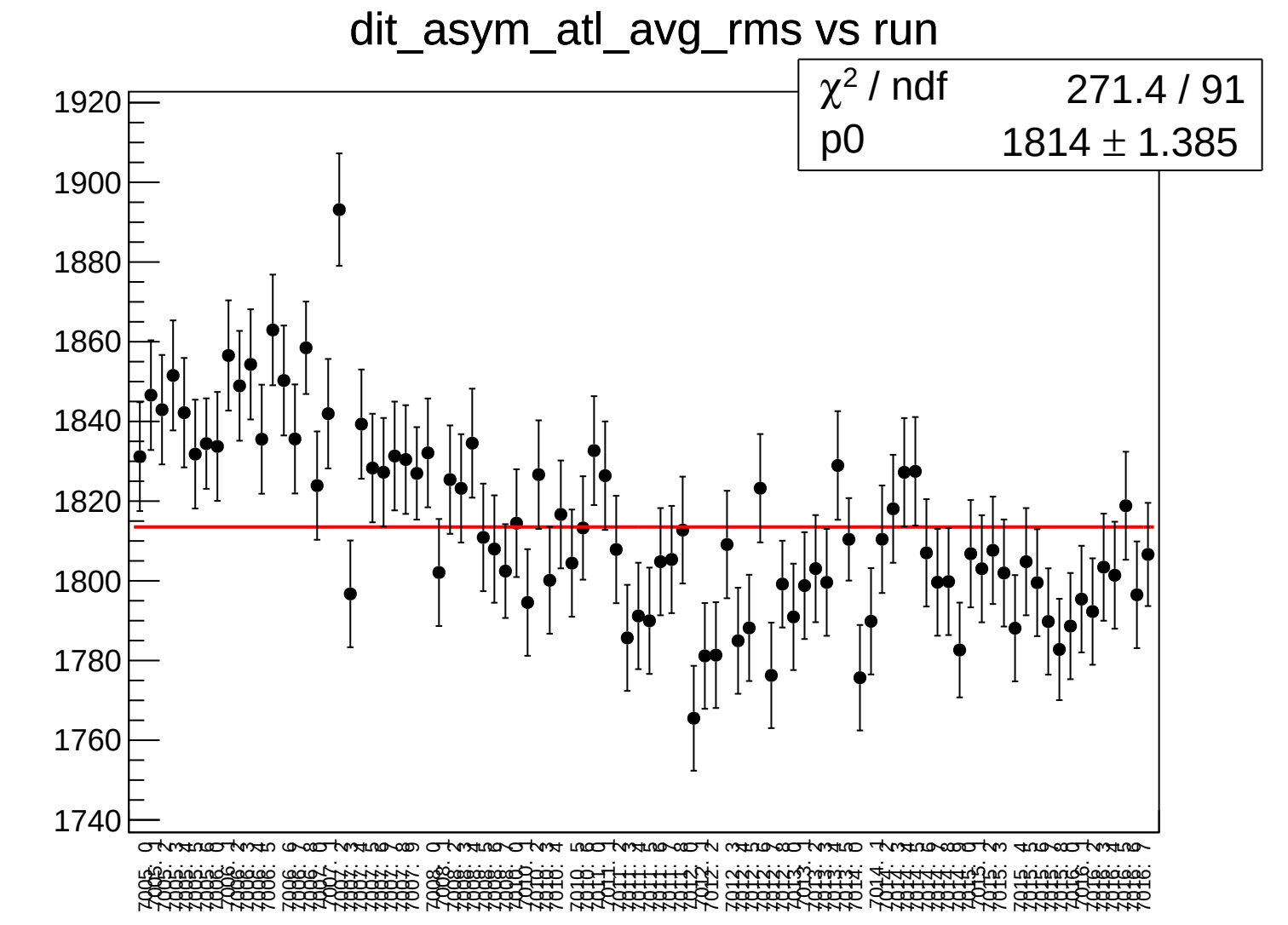

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.83 / 91
p0 −1.527e+04 ± 5546
pull
Entries 92
Mean −1644
Std Dev 0

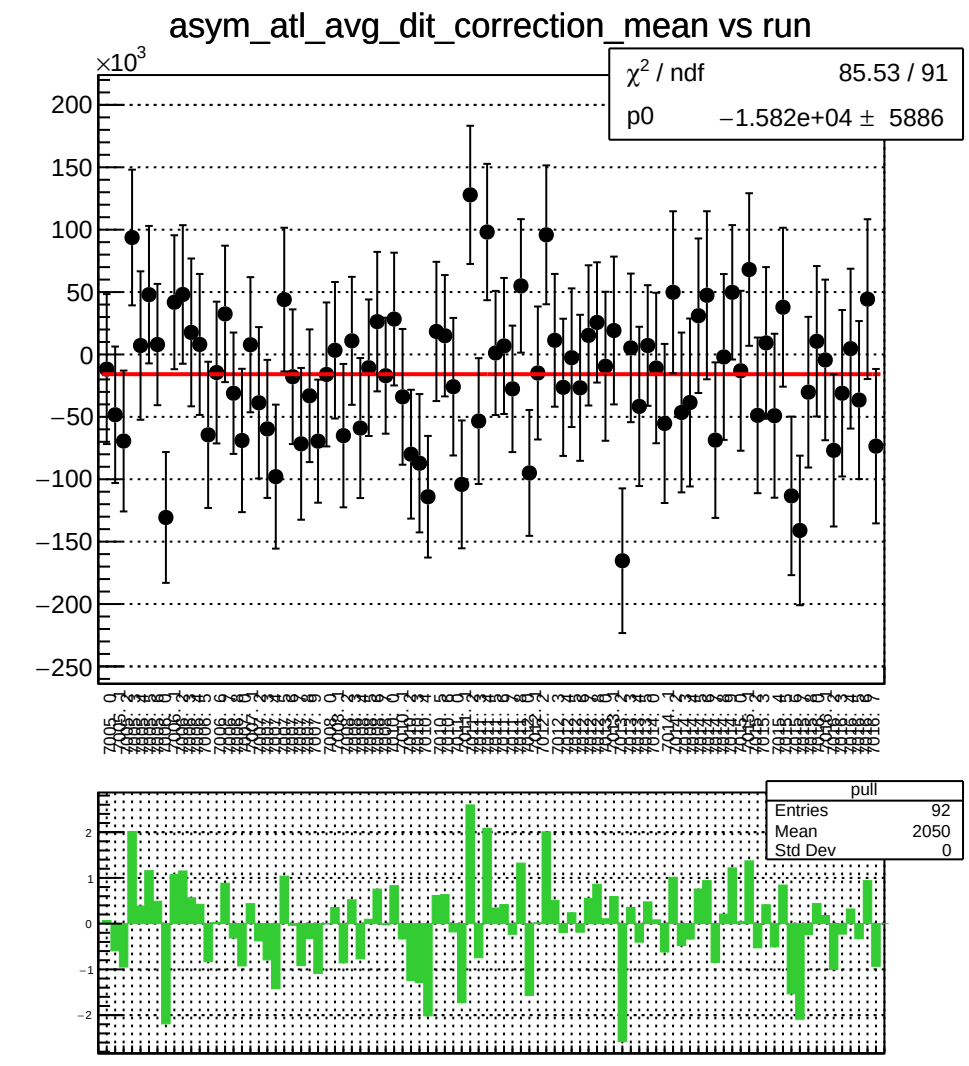

pull1D
Entries 92
Mean 0.0003089
Std Dev 0.9603

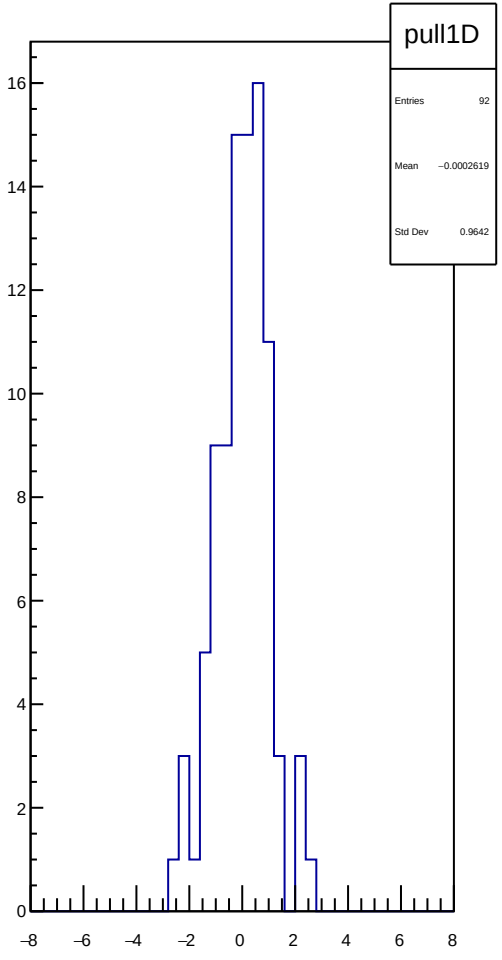

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.085e+04 / 91
p0 5120 ± 3.921
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

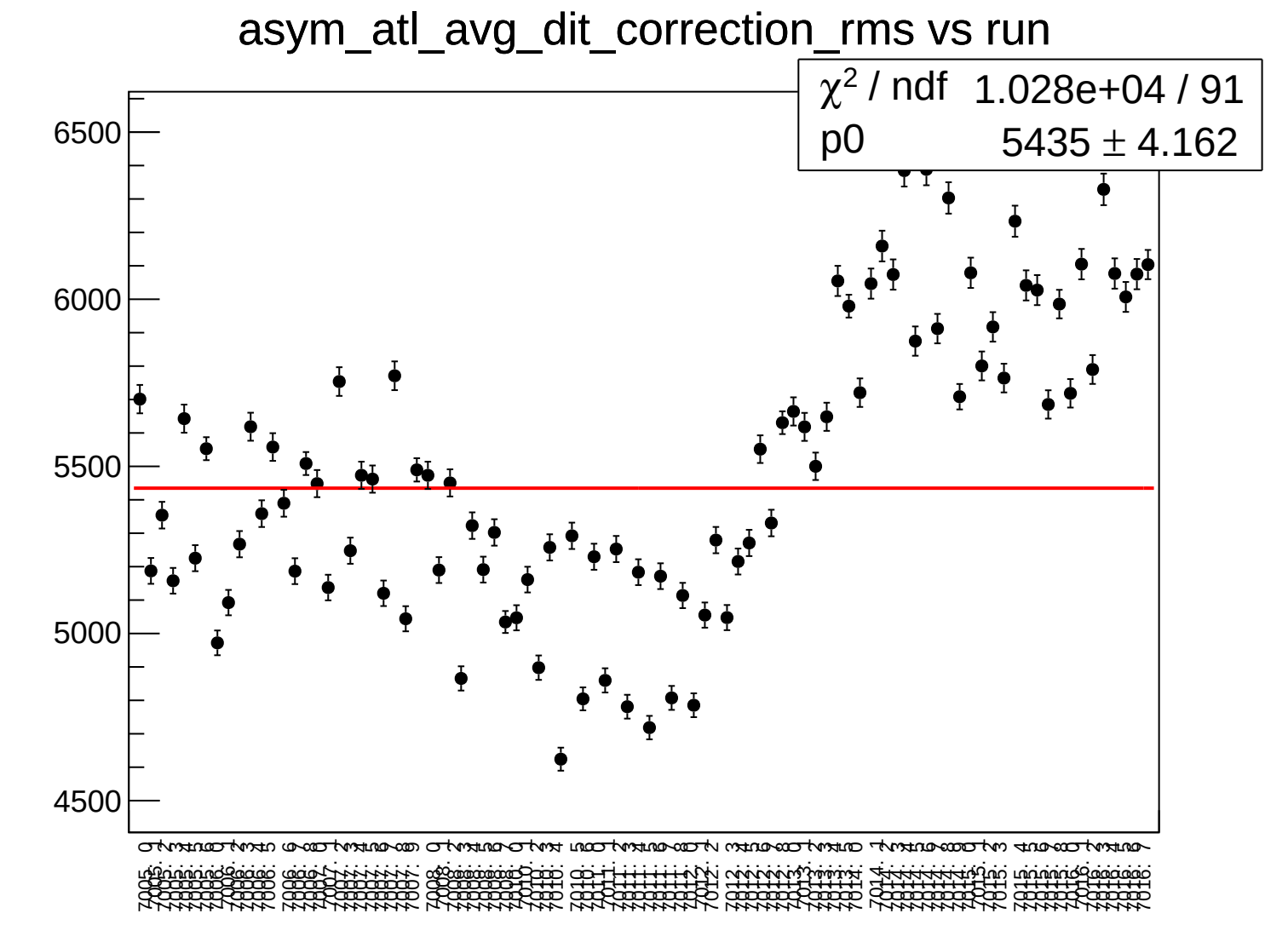

dit_asym_atl_avg_mean vs run
χ² / ndf 95.48 / 91
p0 764.4 ± 1958
pull
Entries 92
Mean 4411
Std Dev 0

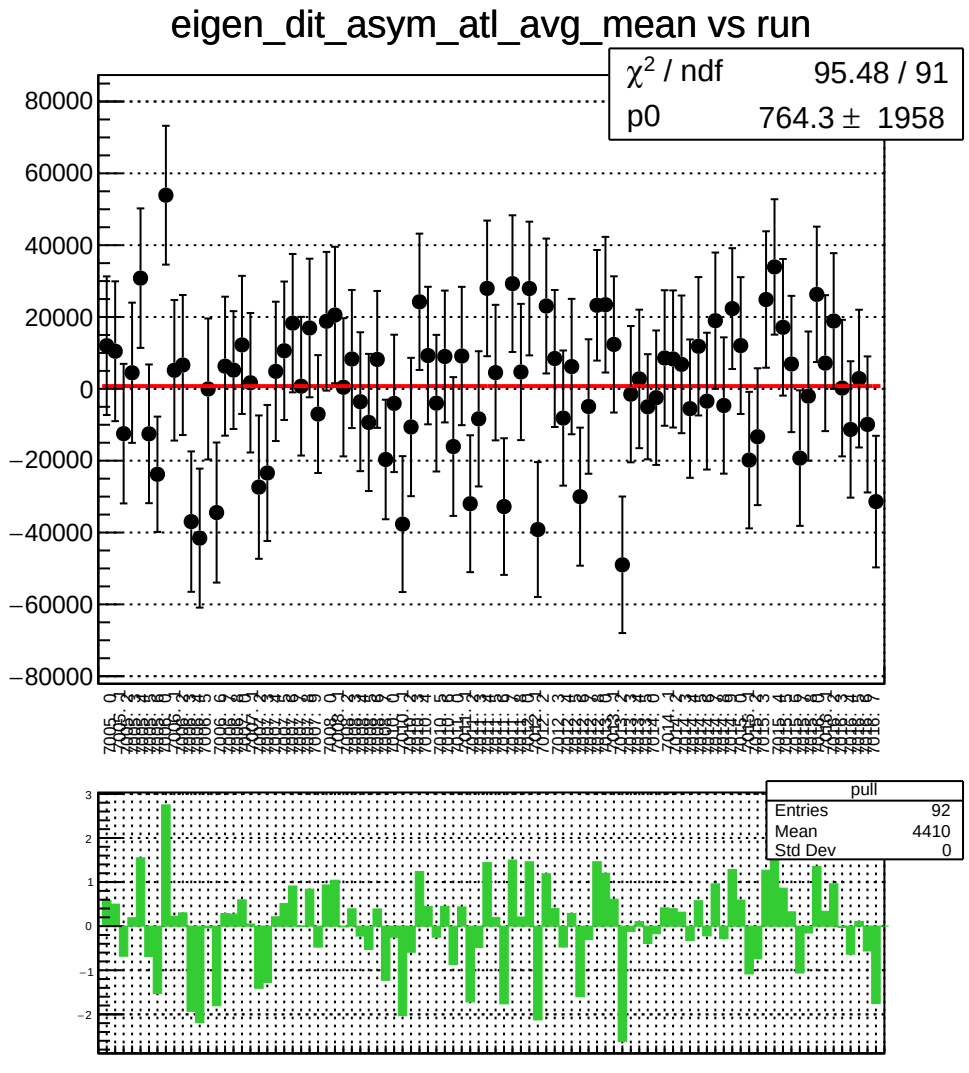

pull1D
Entries 92
Mean 0.0003853
Std Dev 1.019

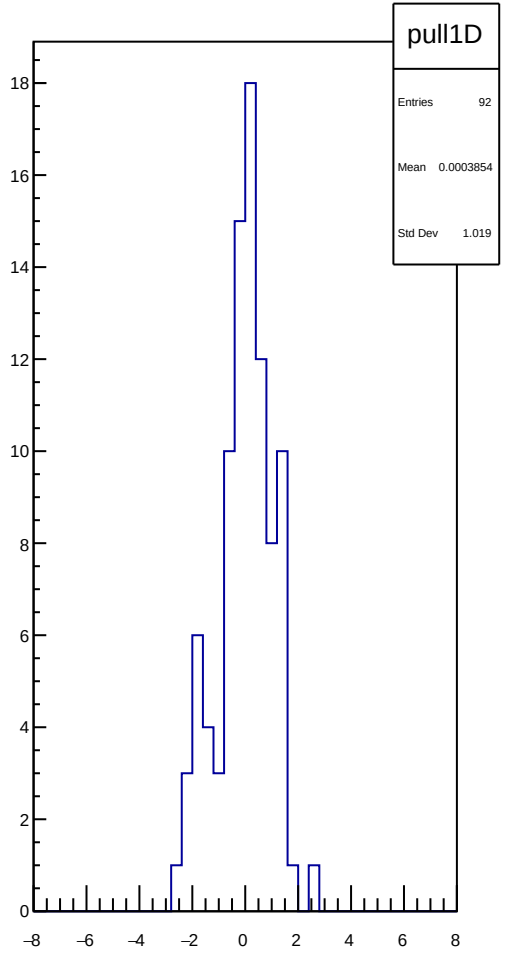

dit_asym_atl_avg_rms vs run
χ² / ndf 271.4 / 91
p0 1814 ± 1.385
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

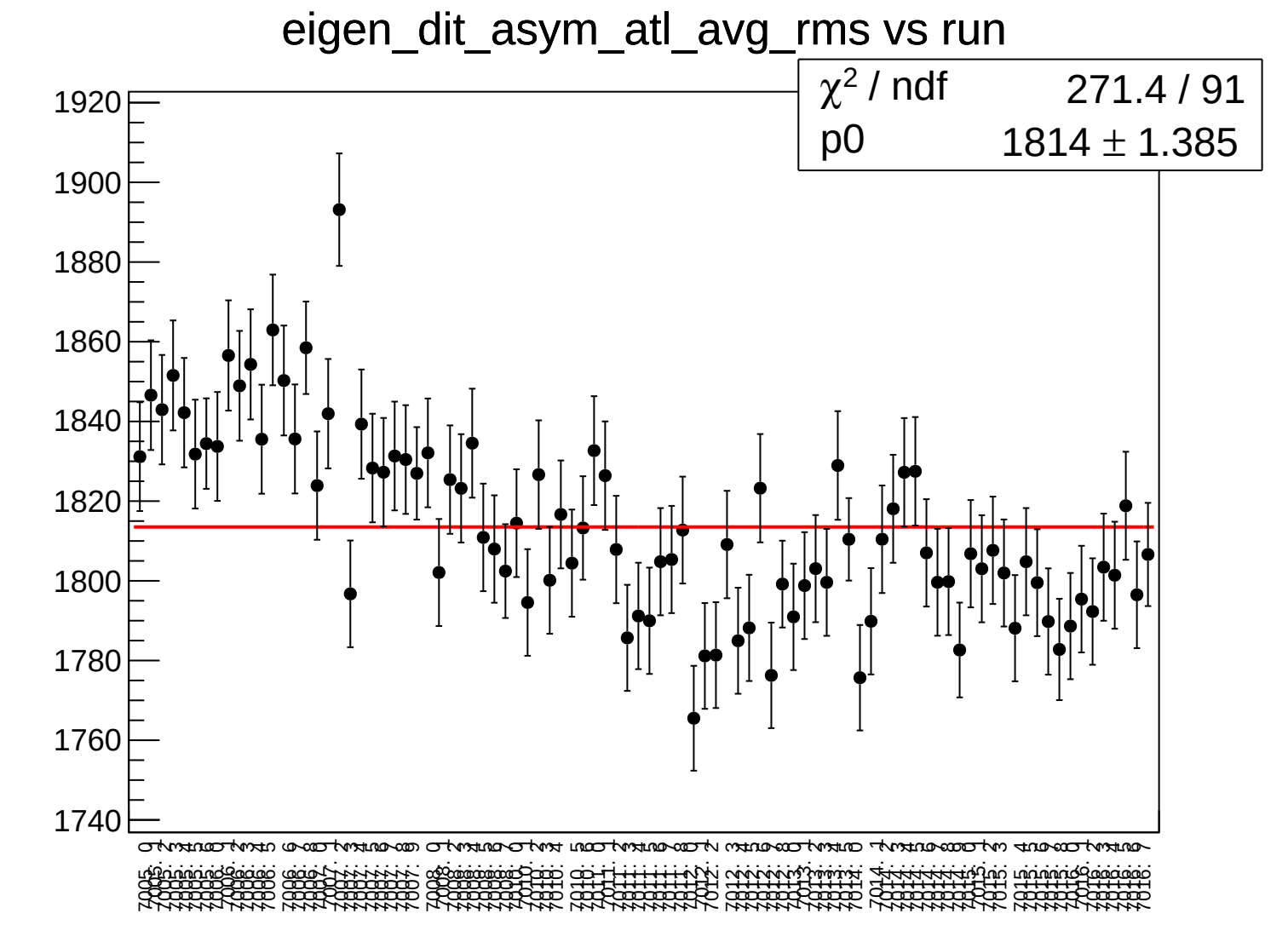

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.53 / 91
p0 −1.582e+04 ± 5886
pull
Entries 92
Mean 2050
Std Dev 0

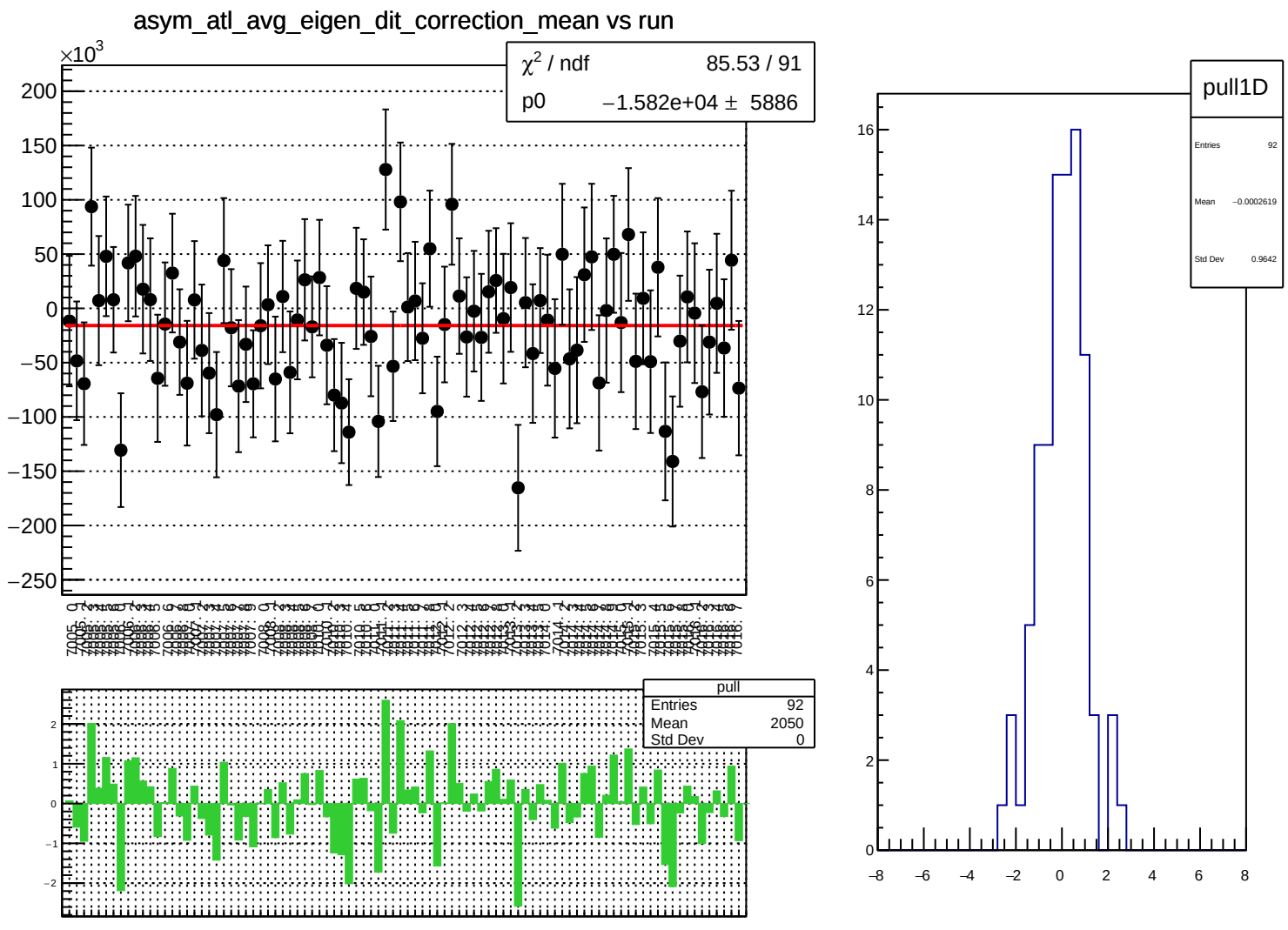

pull1D
Entries 92
Mean −0.0002619
Std Dev 0.9642

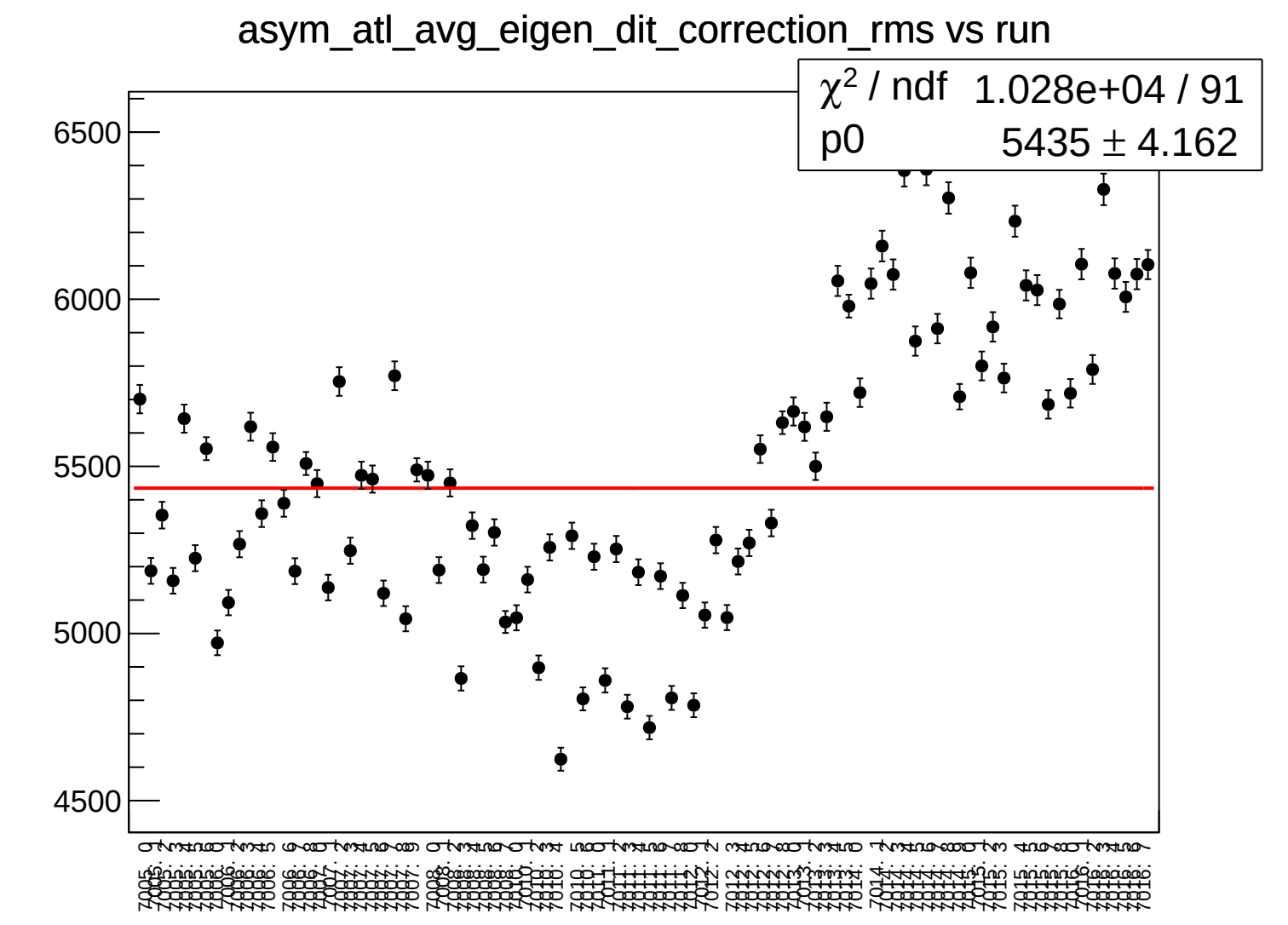

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 1.028e+04 / 91
p0 5435 ± 4.162
6500
6000
5500
5000
4500

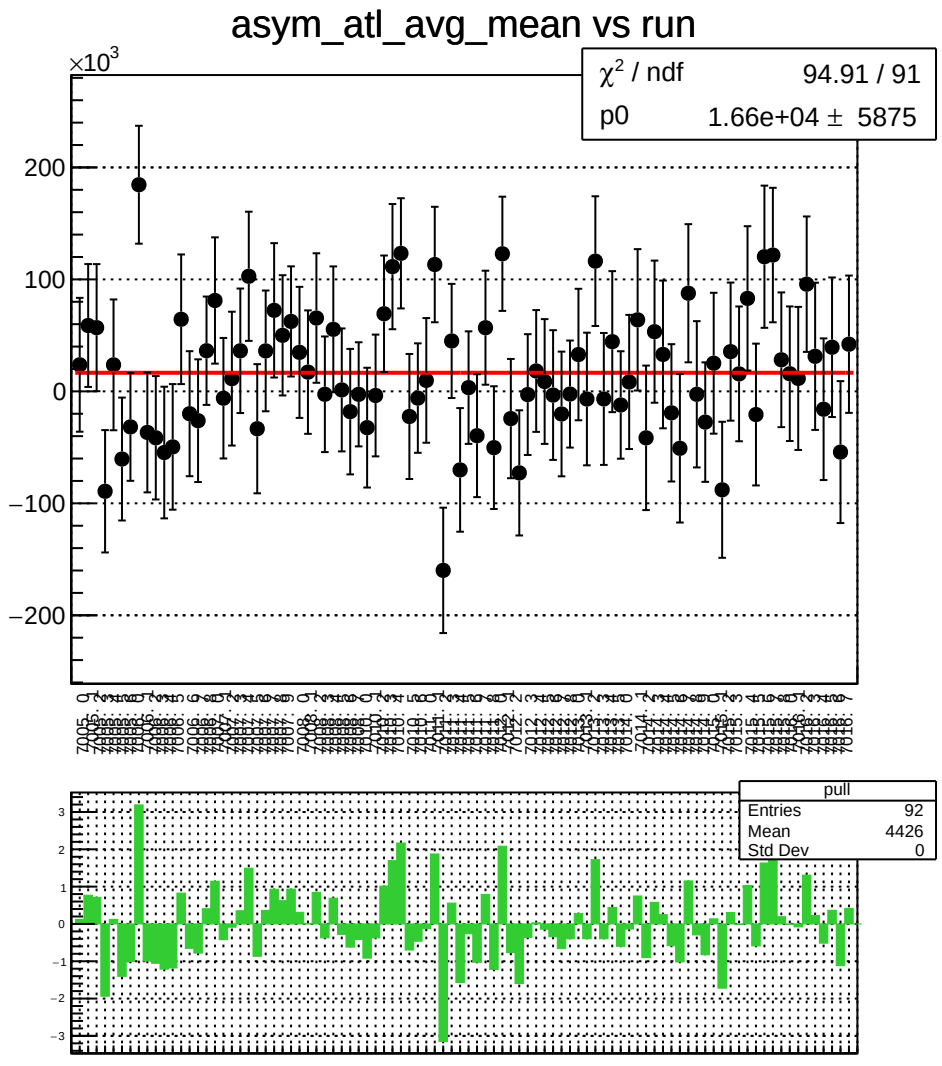

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 95.48 / 91
p0 764.3 ± 1958
pull
Entries 92
Mean 4410
Std Dev 0

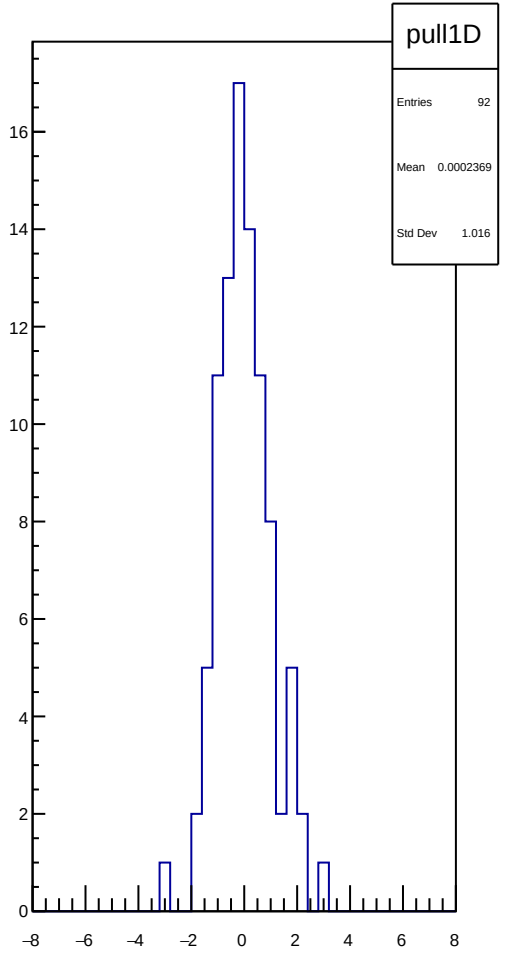

pull1D
Entries 92
Mean 0.0003854
Std Dev 1.019

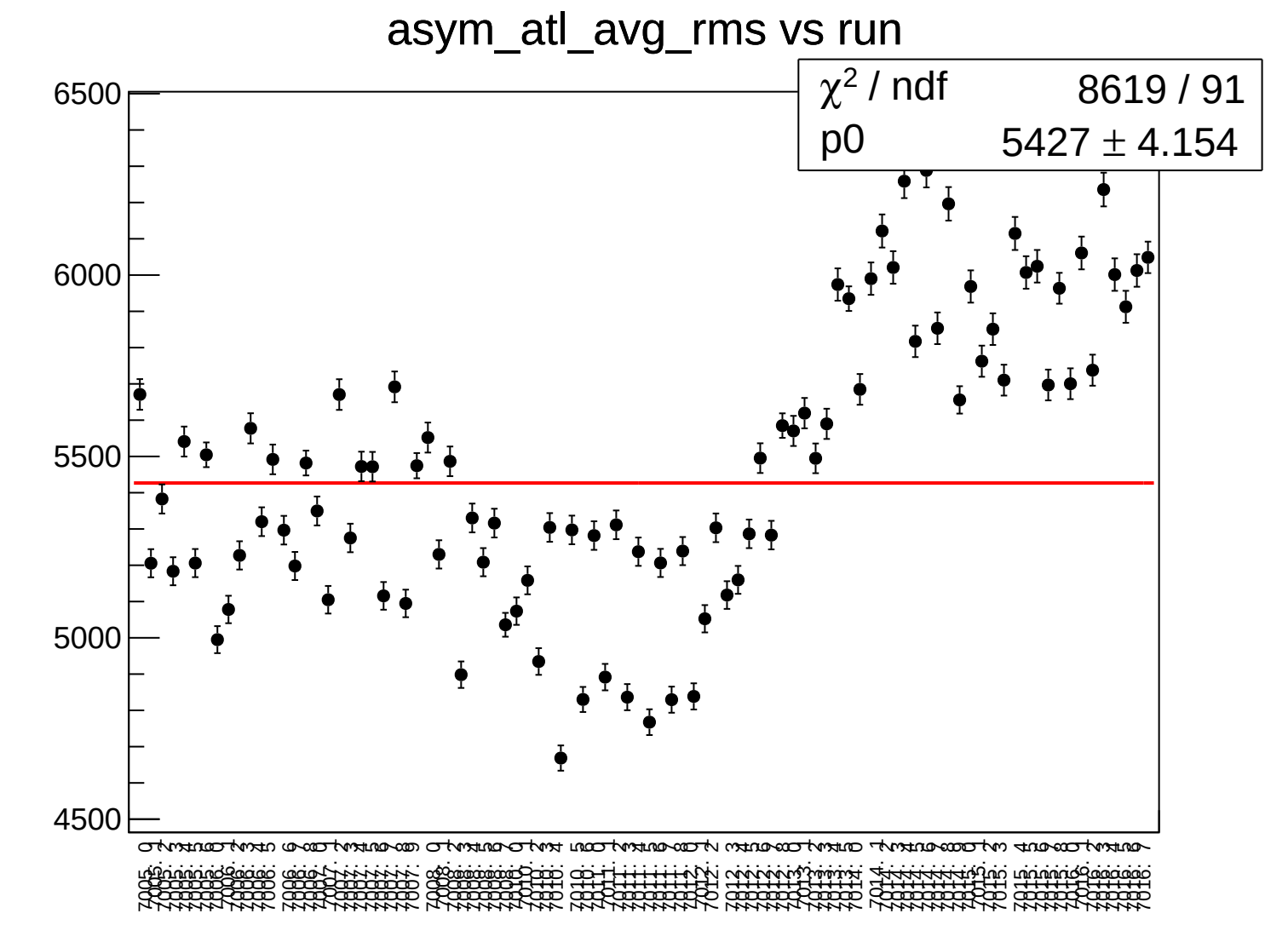

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 271.4 / 91
p0 1814 ± 1.385
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

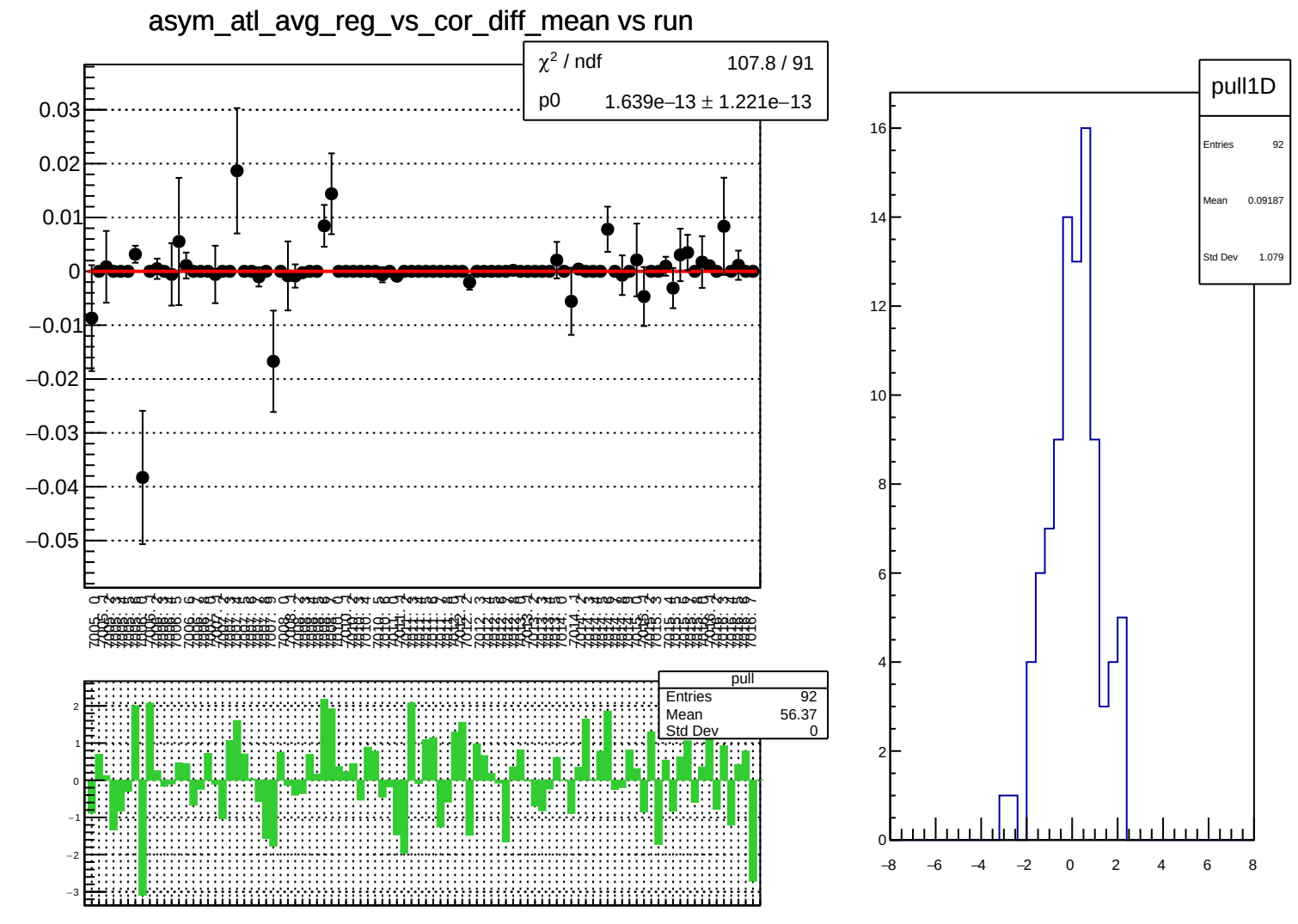

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.53 / 91
p0 −1.582e+04 ± 5886
pull
Entries 92
Mean 2050
Std Dev 0
pull1D
Entries 92
Mean −0.0002619
Std Dev 0.9642

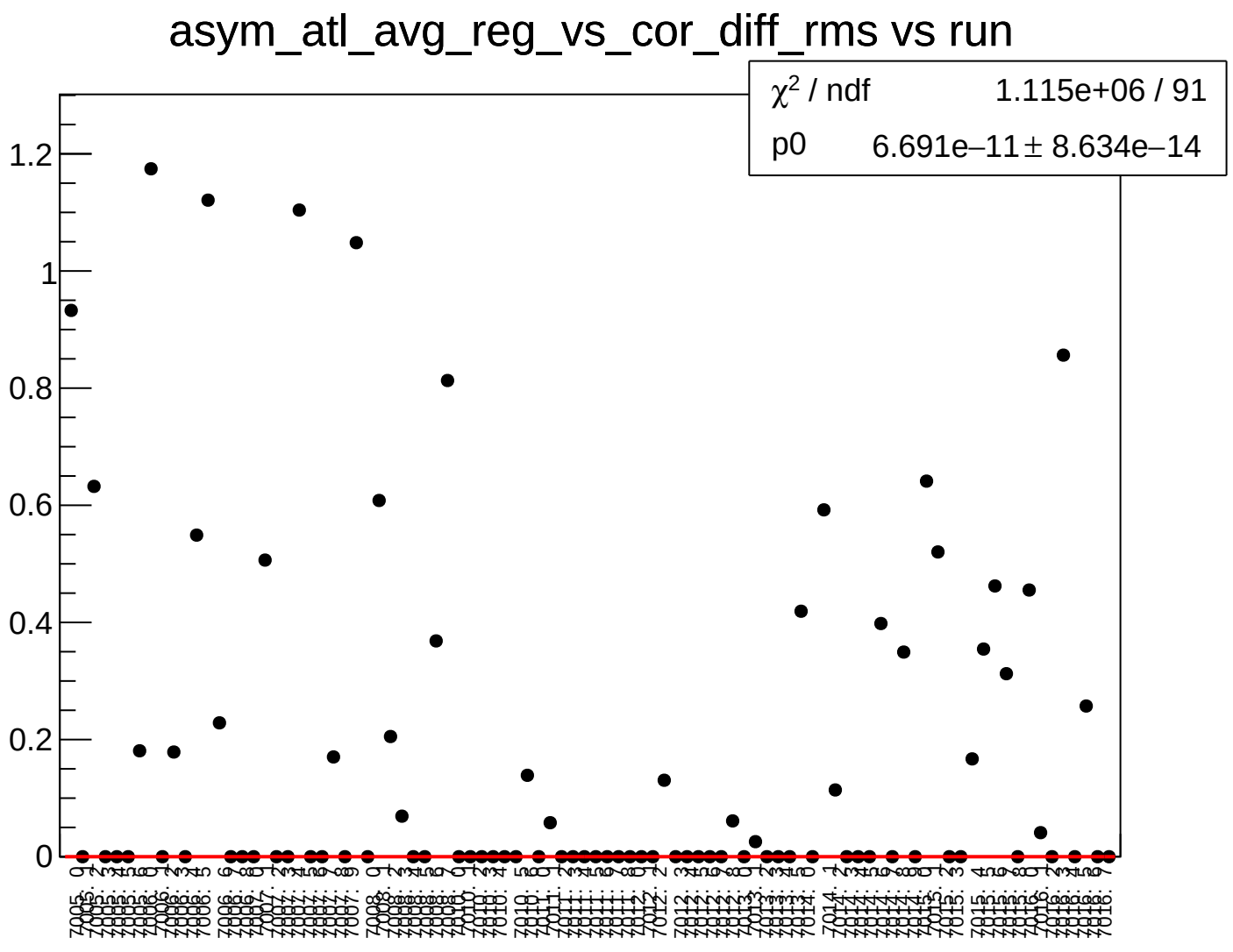

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.028e+04 / 91
p0 5435 ± 4.162
6500
6000
5500
5000
4500

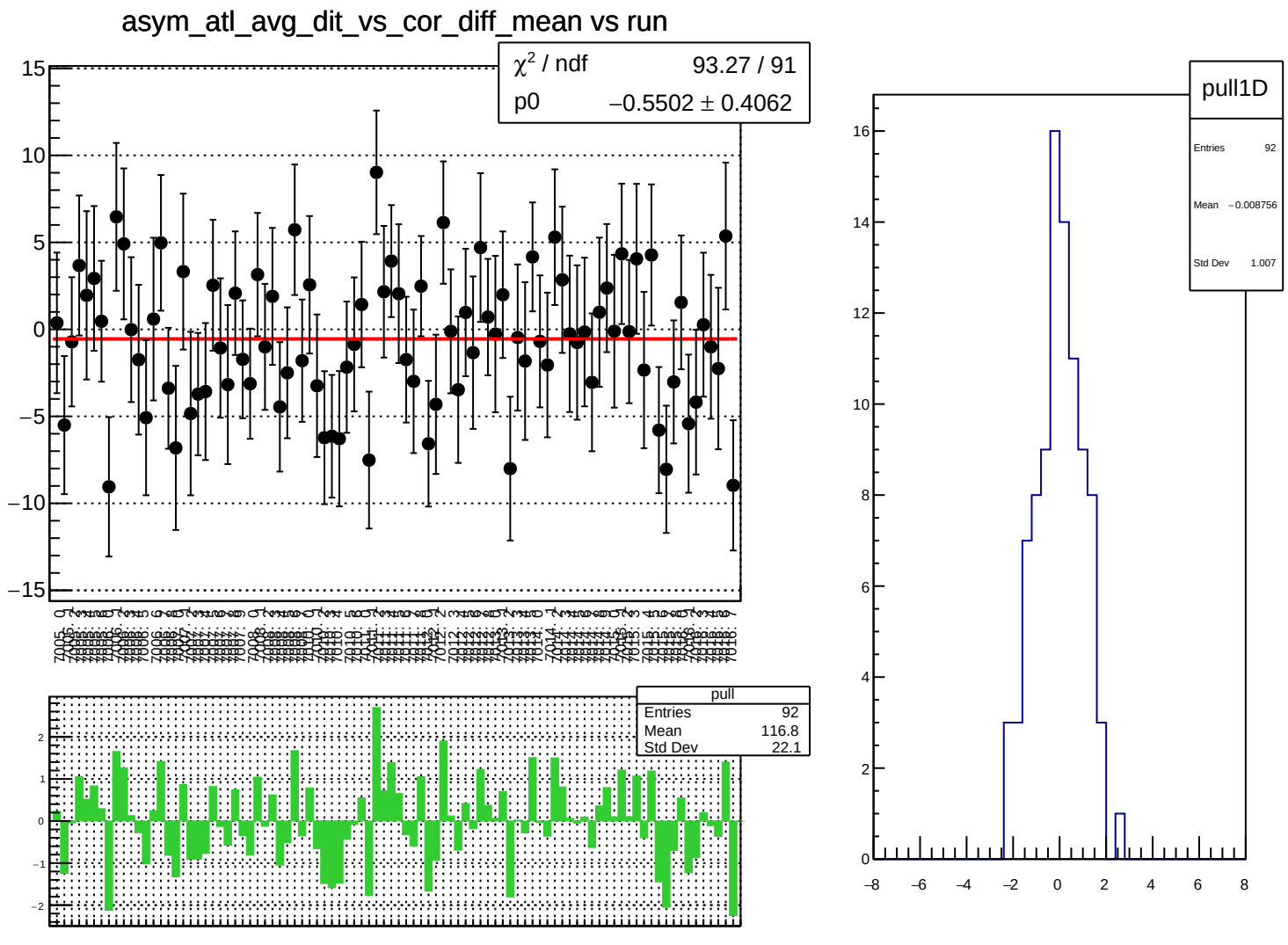

asym_atl_avg_mean vs run
×10^3
χ² / ndf 94.91 / 91
p0 1.66e+04 ± 5875
200
100
0
−100
−200
pull
Entries 92
Mean 4426
Std Dev 0
3
2
1
0
−1
−2
−3

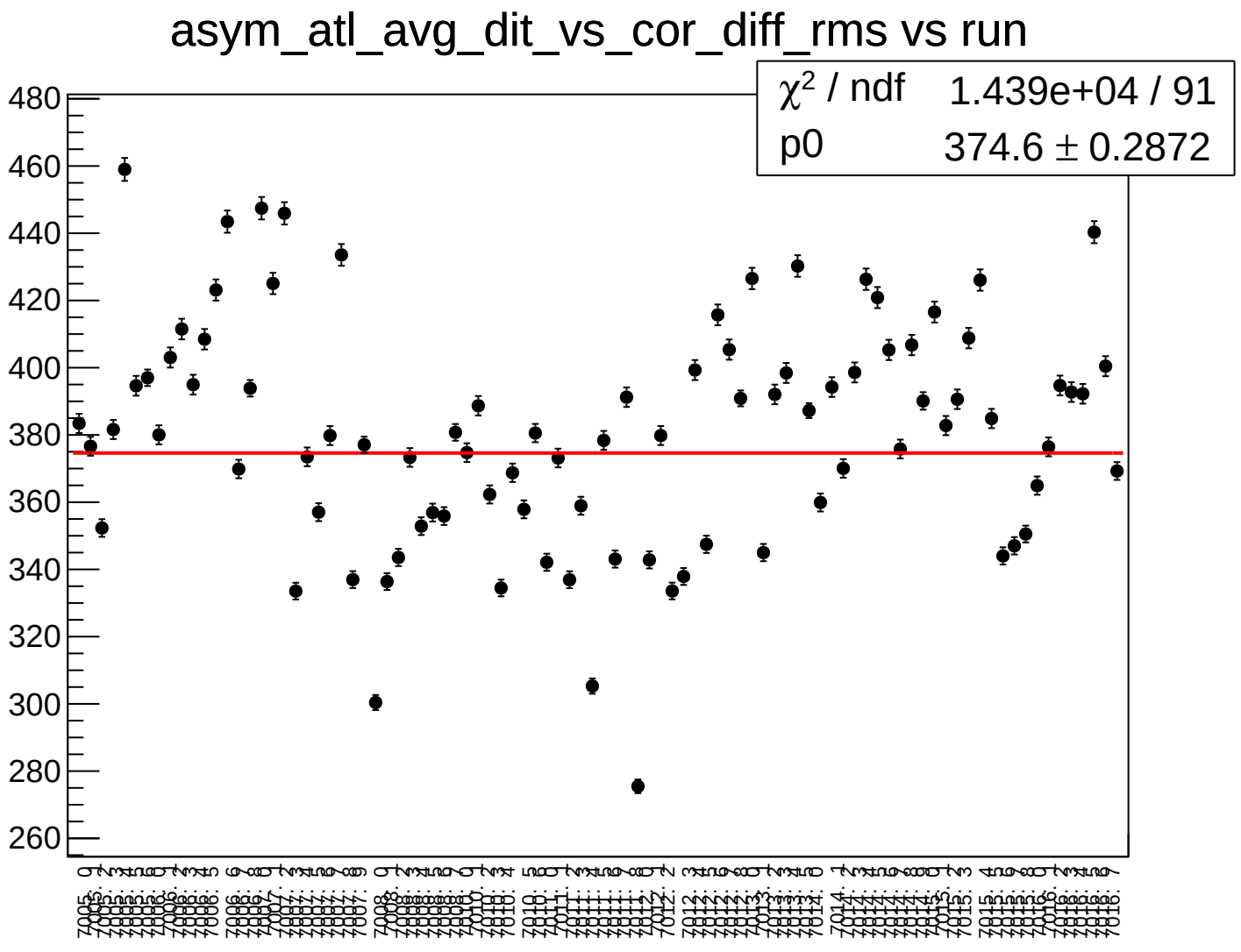

pull1D
Entries 92
Mean 0.0002369
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

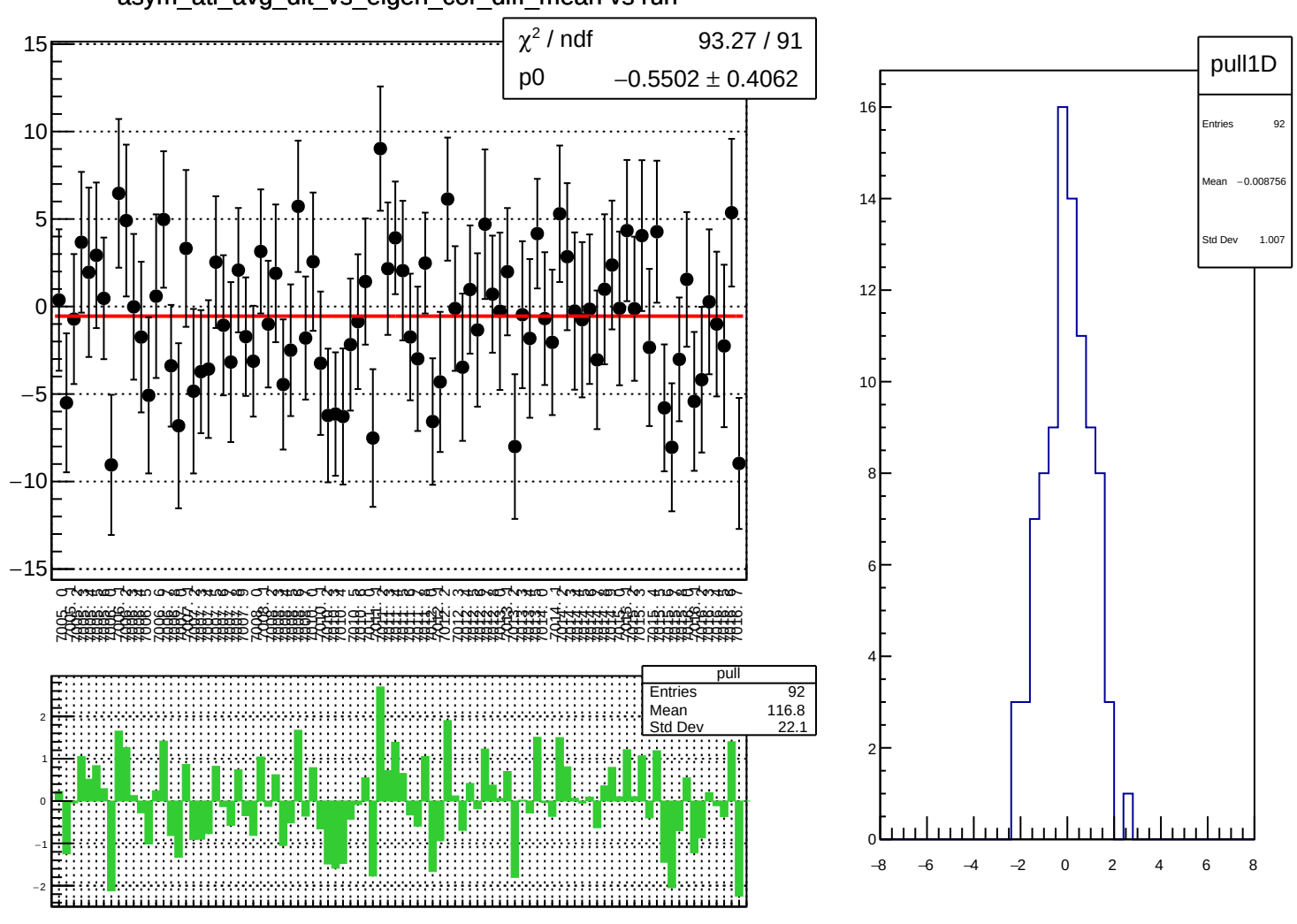

asym_atl_avg_rms vs run
χ² / ndf 8619 / 91
p0 5427 ± 4.154
6500
6000
5500
5000
4500

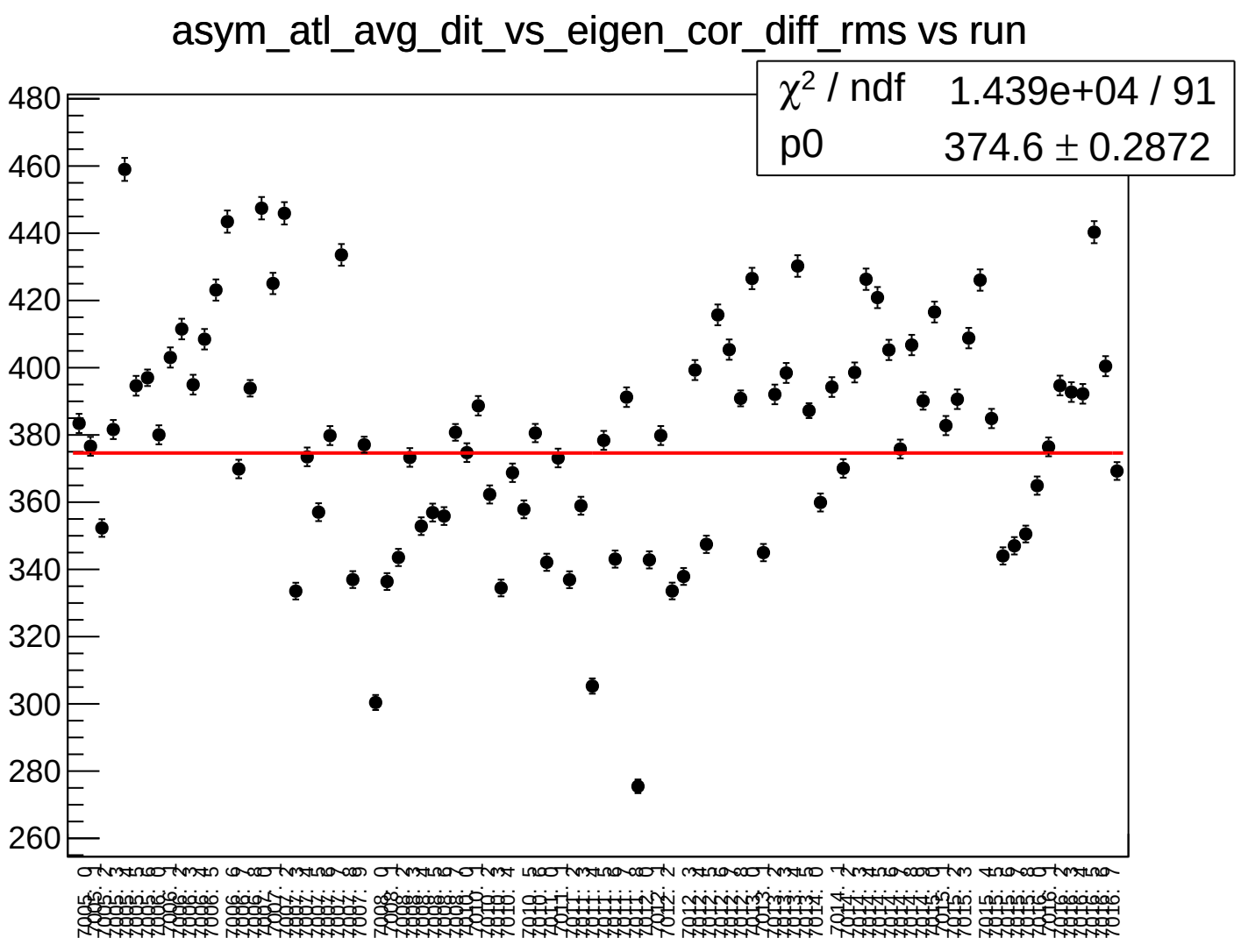

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 107.8 / 91
p0 1.639e−13 ± 1.221e−13
pull
Entries 92
Mean 56.37
Std Dev 0
pull1D
Entries 92
Mean 0.09187
Std Dev 1.079

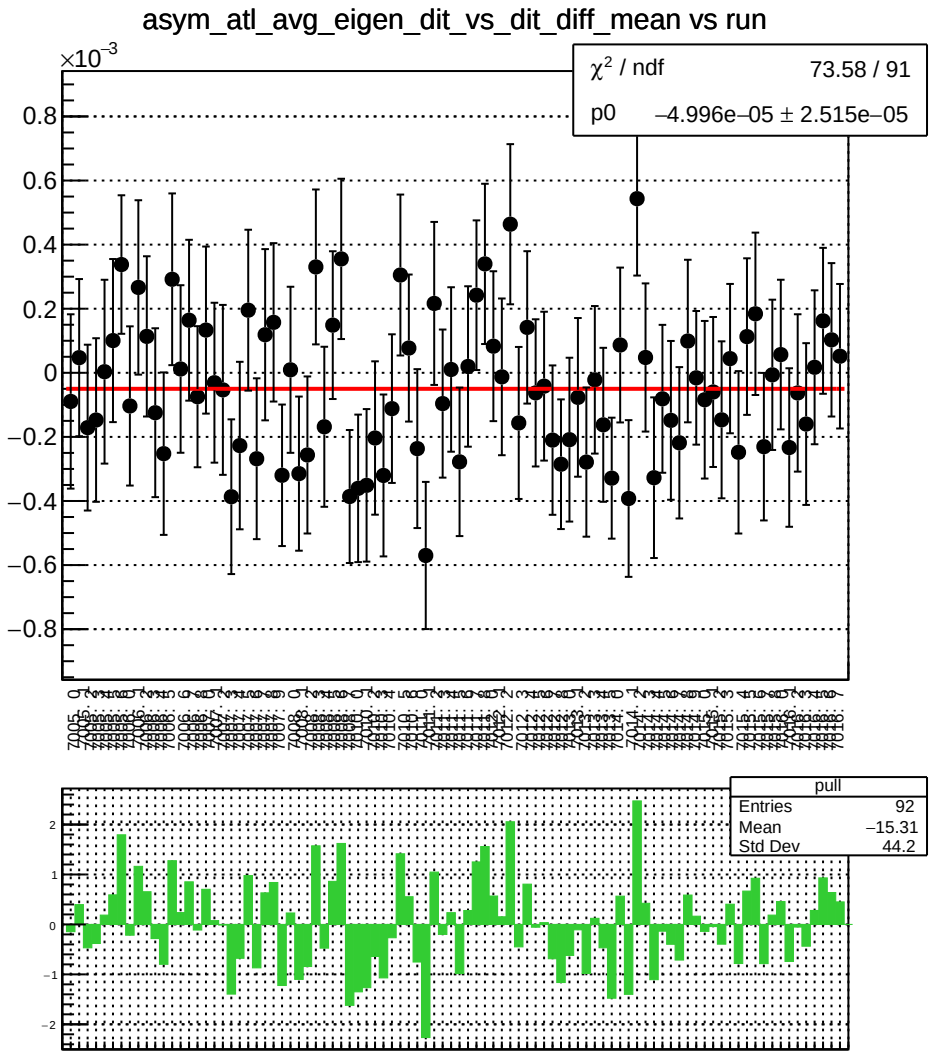

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.115e+06 / 91
p0 6.691e−11 ± 8.634e−14
1.2
1
0.8
0.6
0.4
0.2
0

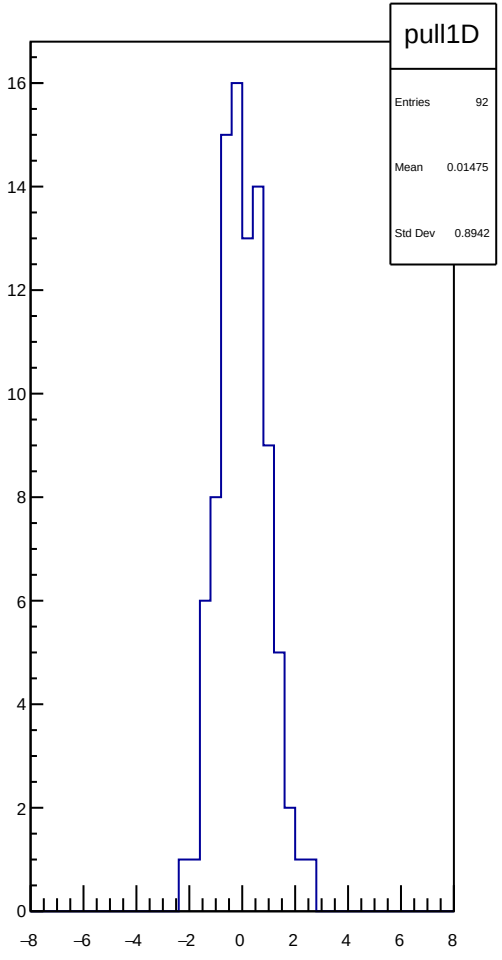

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.27 / 91
p0 −0.5502 ± 0.4062
pull
Entries 92
Mean 116.8
Std Dev 22.1
pull1D
Entries 92
Mean −0.008756
Std Dev 1.007

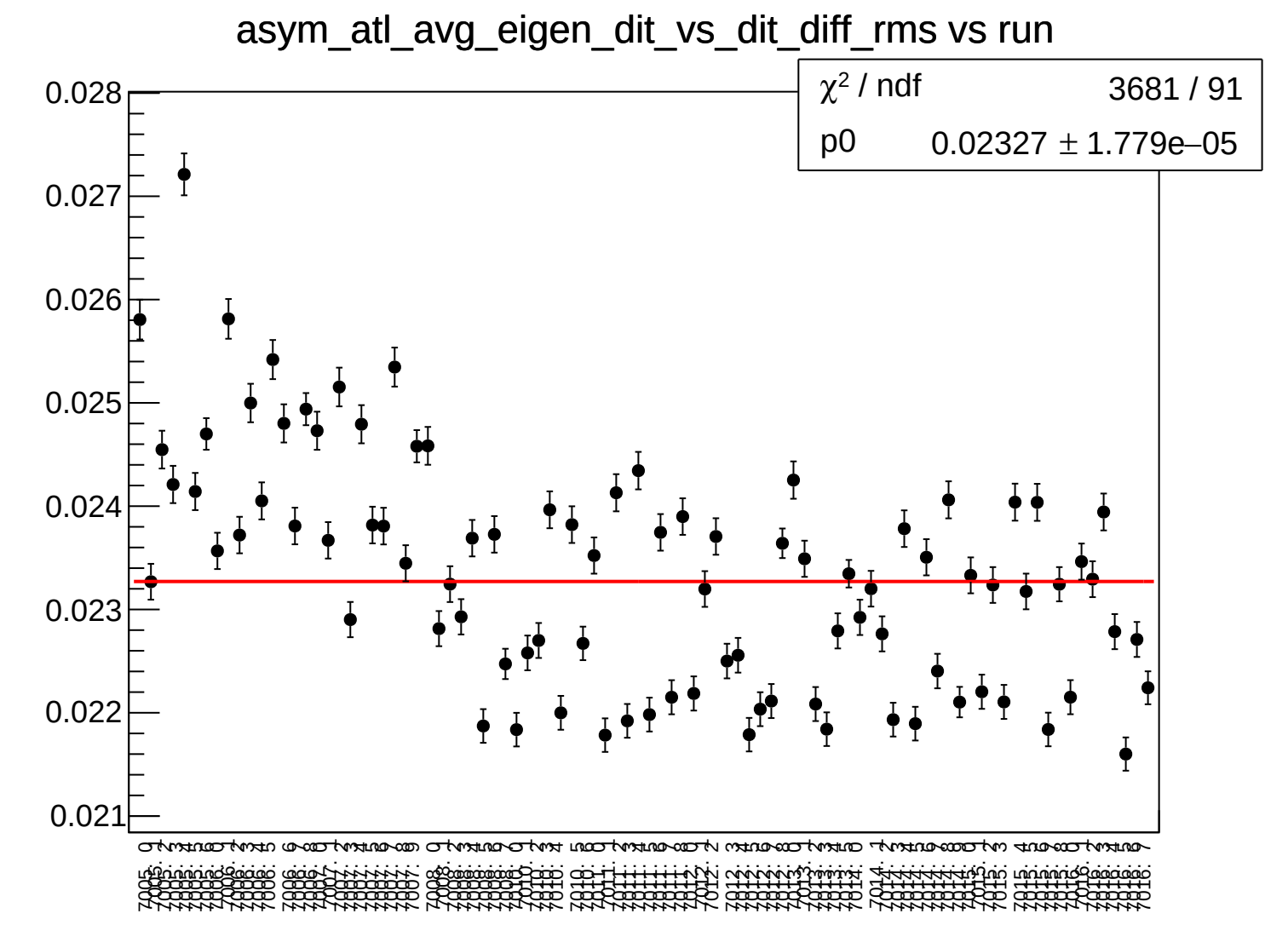

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.439e+04 / 91
p0 374.6 ± 0.2872
480
460
440
420
400
380
360
340
320
300
280
260

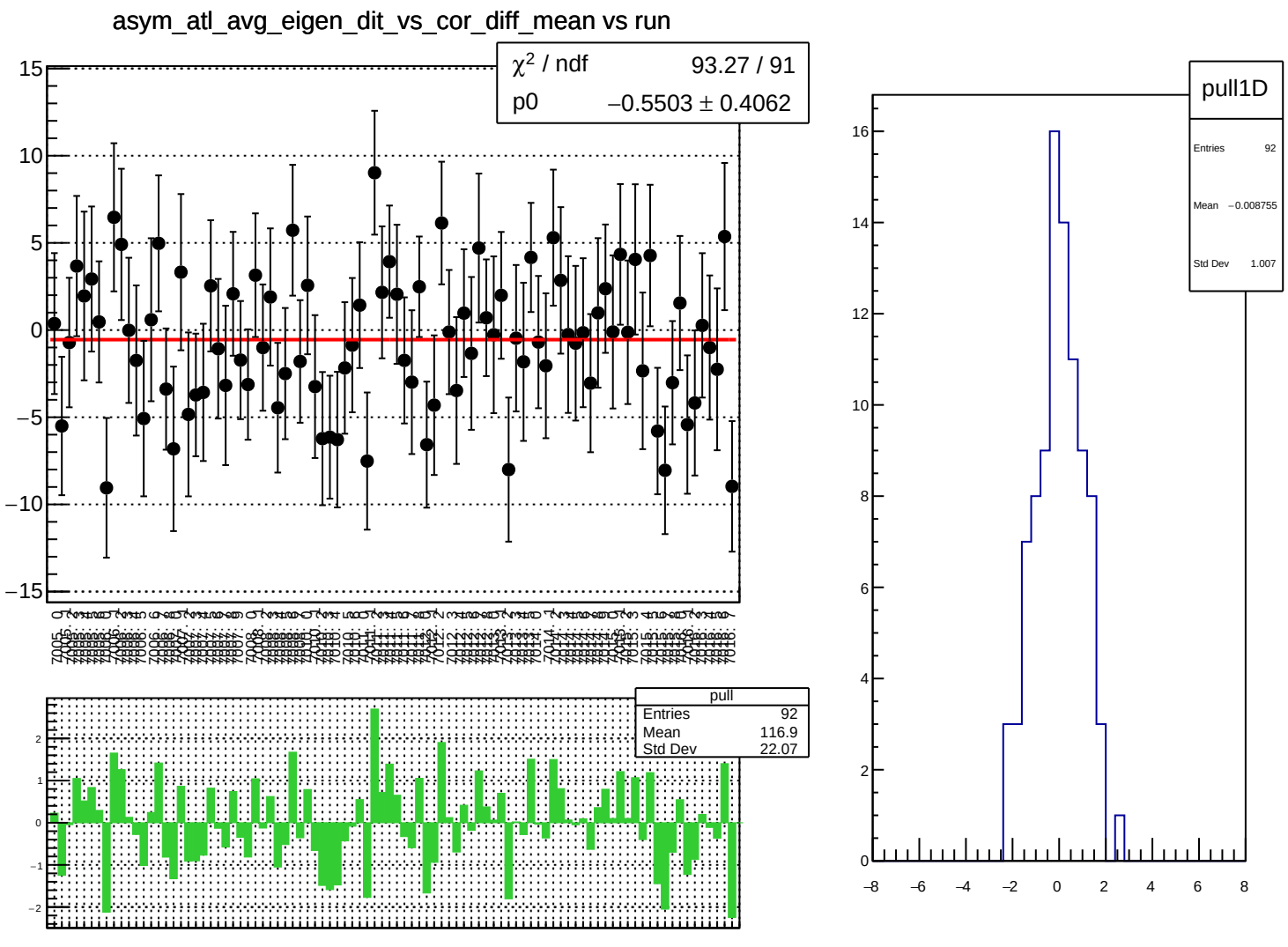

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.27 / 91
p0 −0.5502 ± 0.4062
pull
Entries 92
Mean 116.8
Std Dev 22.1
pull1D
Entries 92
Mean −0.008756
Std Dev 1.007

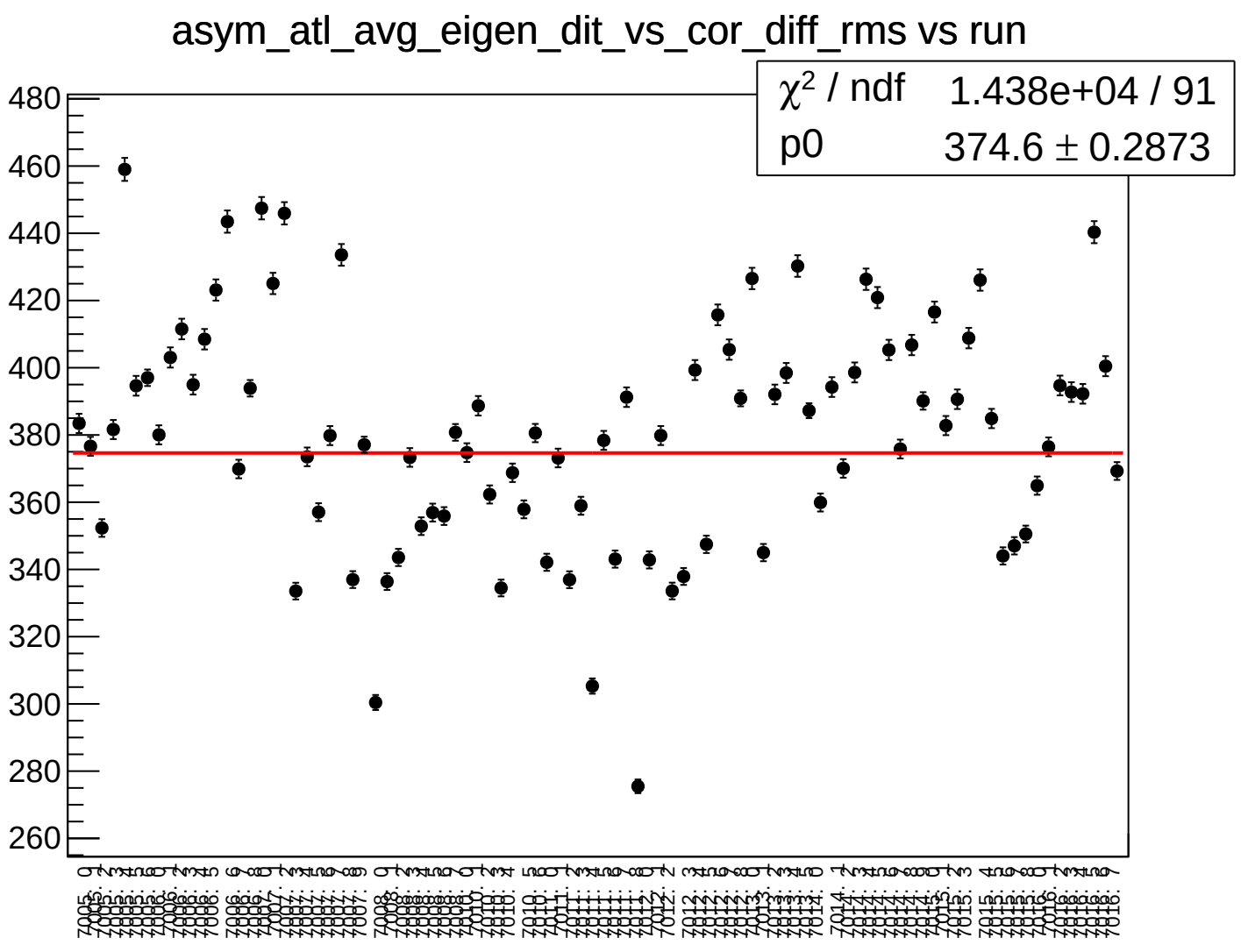

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.439e+04 / 91
p0 374.6 ± 0.2872
480
460
440
420
400
380
360
340
320
300
280
260

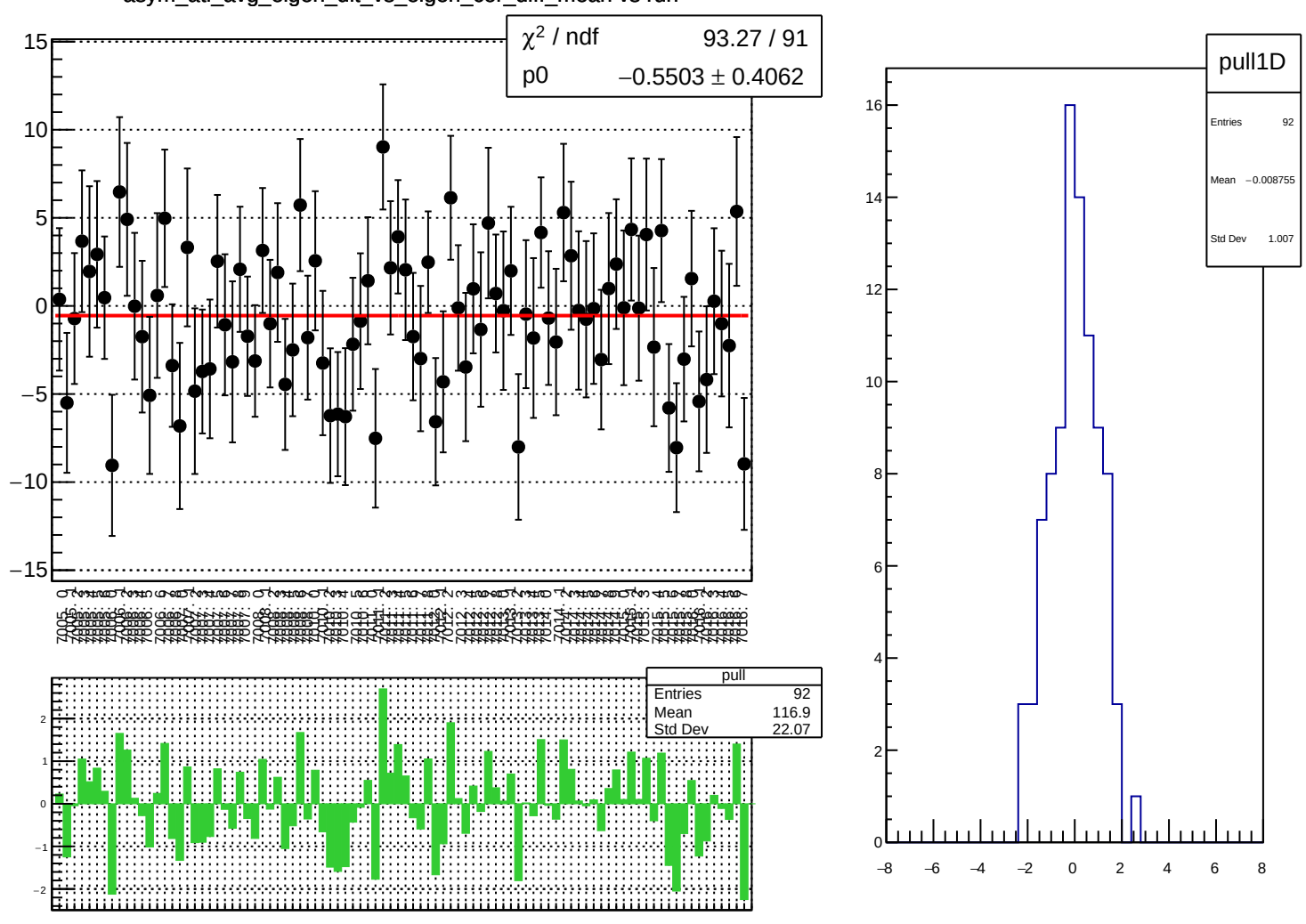

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.58 / 91
p0 −4.996e−05 ± 2.515e−05
pull
Entries 92
Mean −15.31
Std Dev 44.2

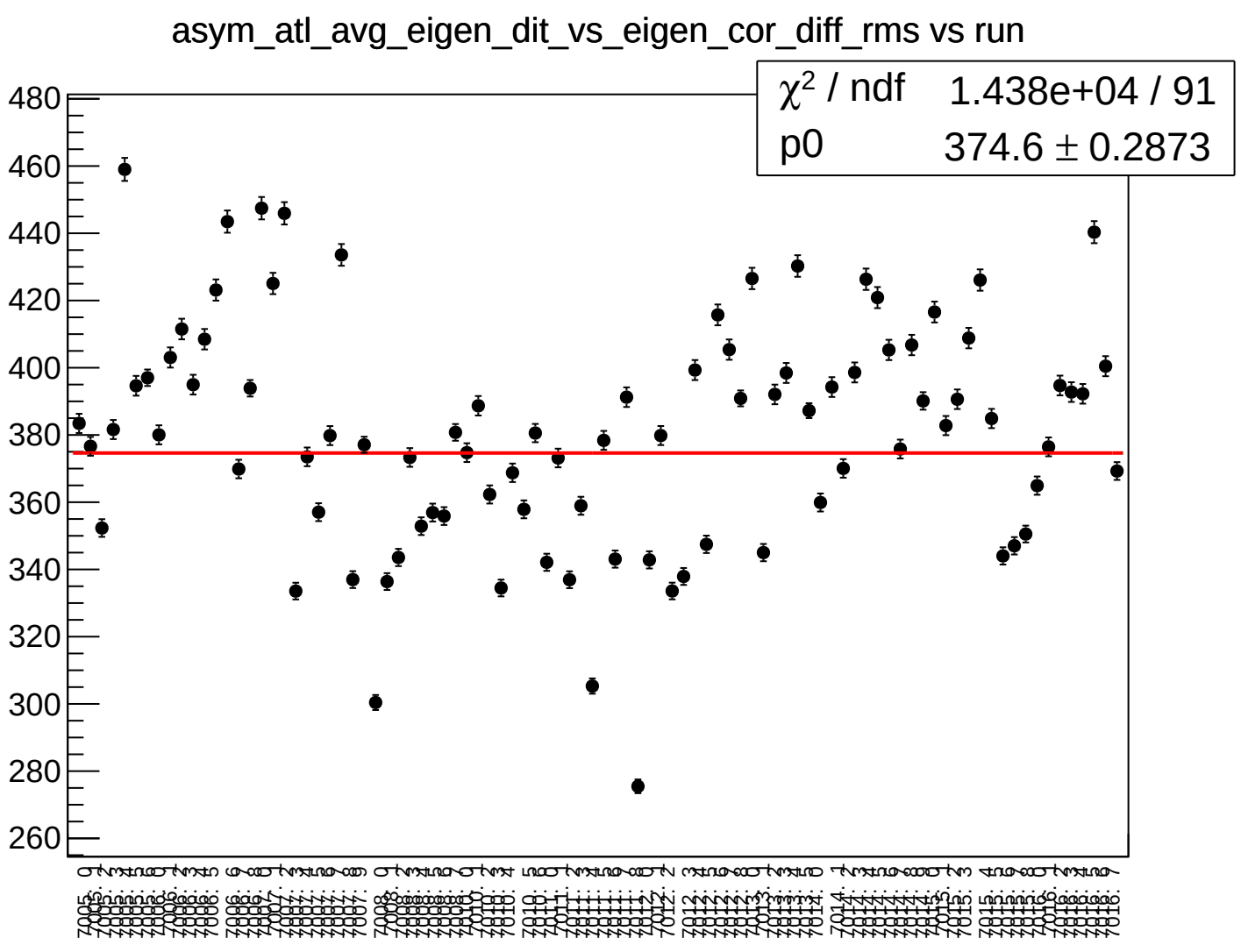

pull1D
Entries 92
Mean 0.01475
Std Dev 0.8942

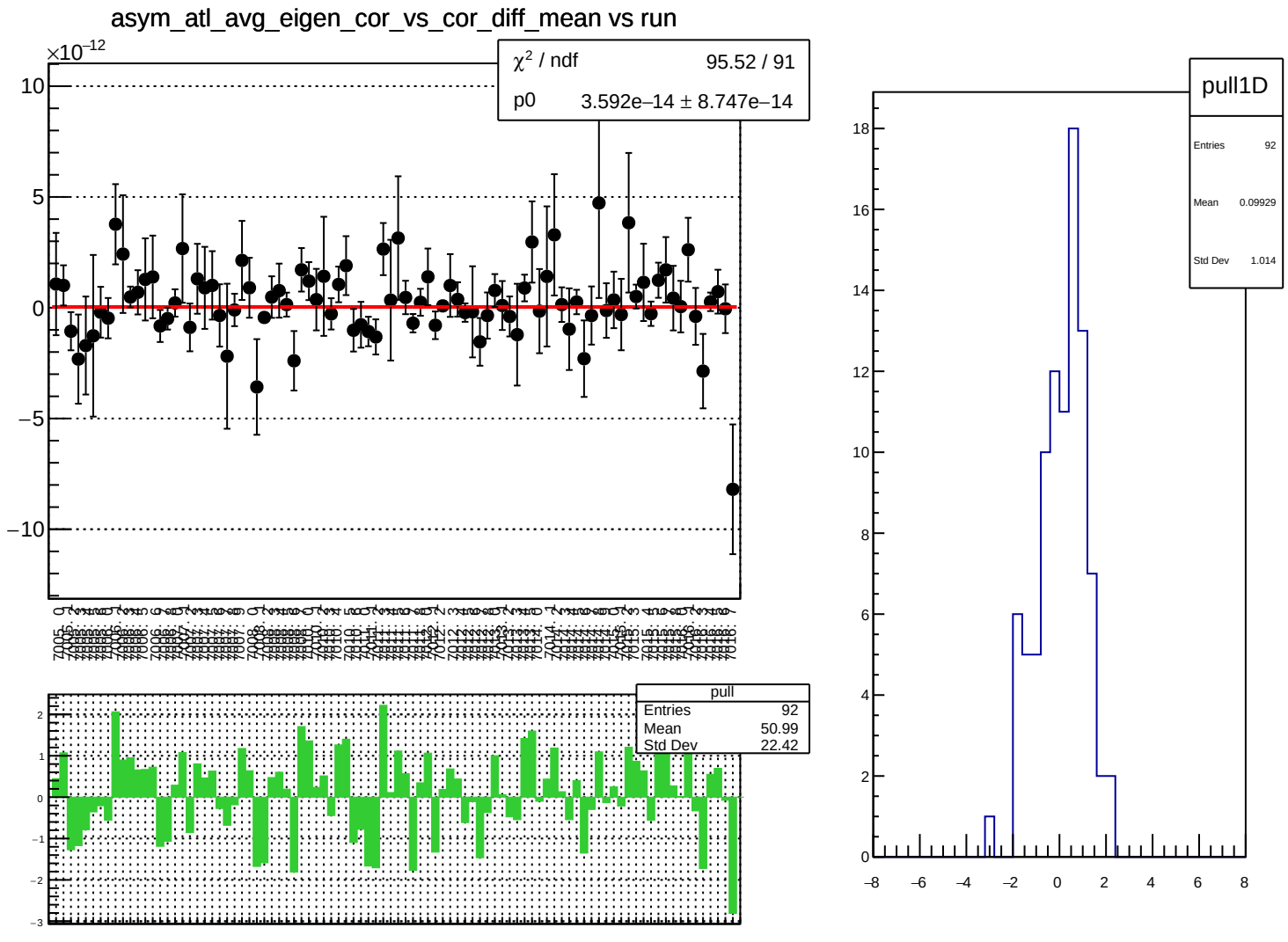

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3681 / 91
p0 0.02327 ± 1.779e−05
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021

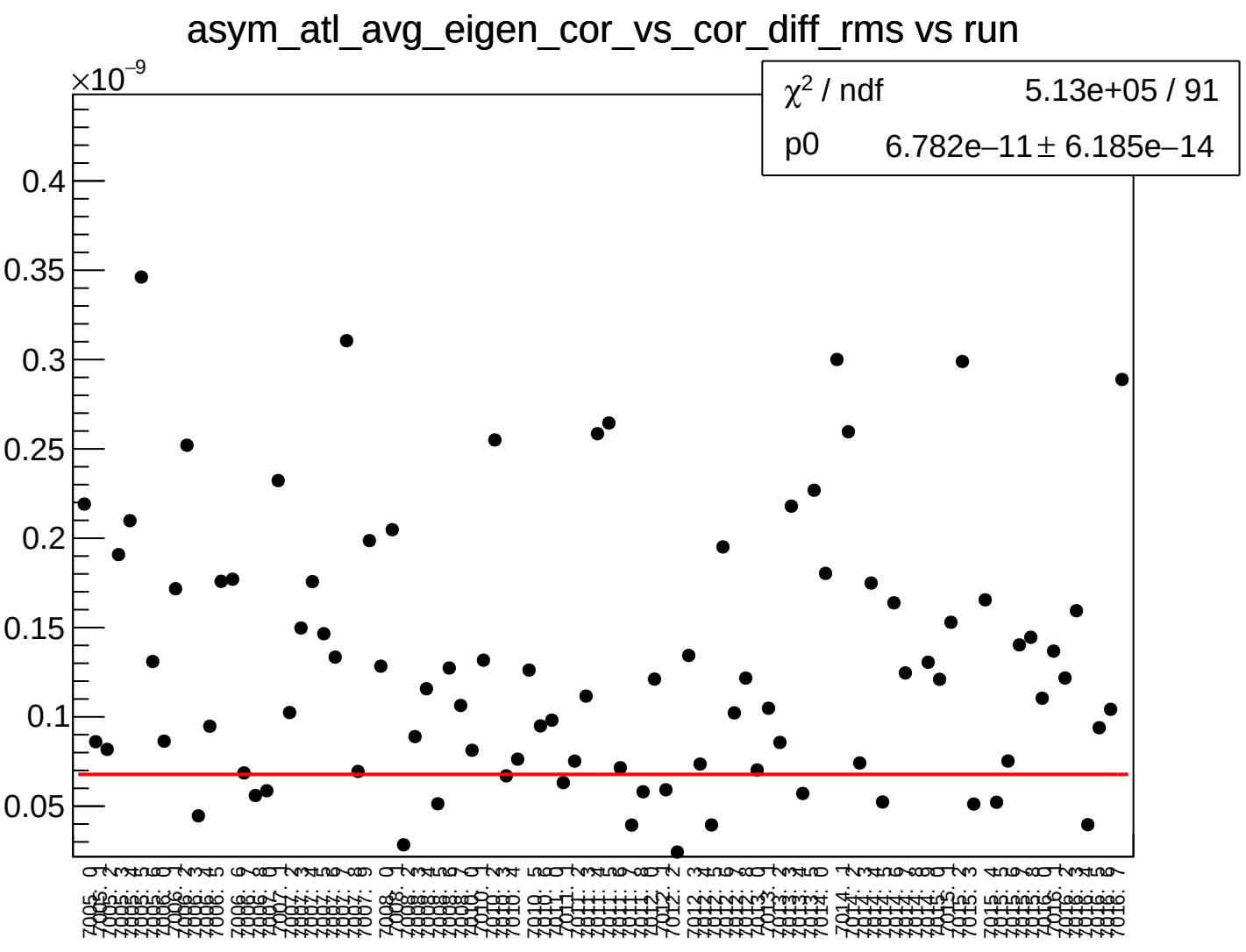

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.27 / 91
p0 −0.5503 ± 0.4062
pull
Entries 92
Mean 116.9
Std Dev 22.07
pull1D
Entries 92
Mean −0.008755
Std Dev 1.007

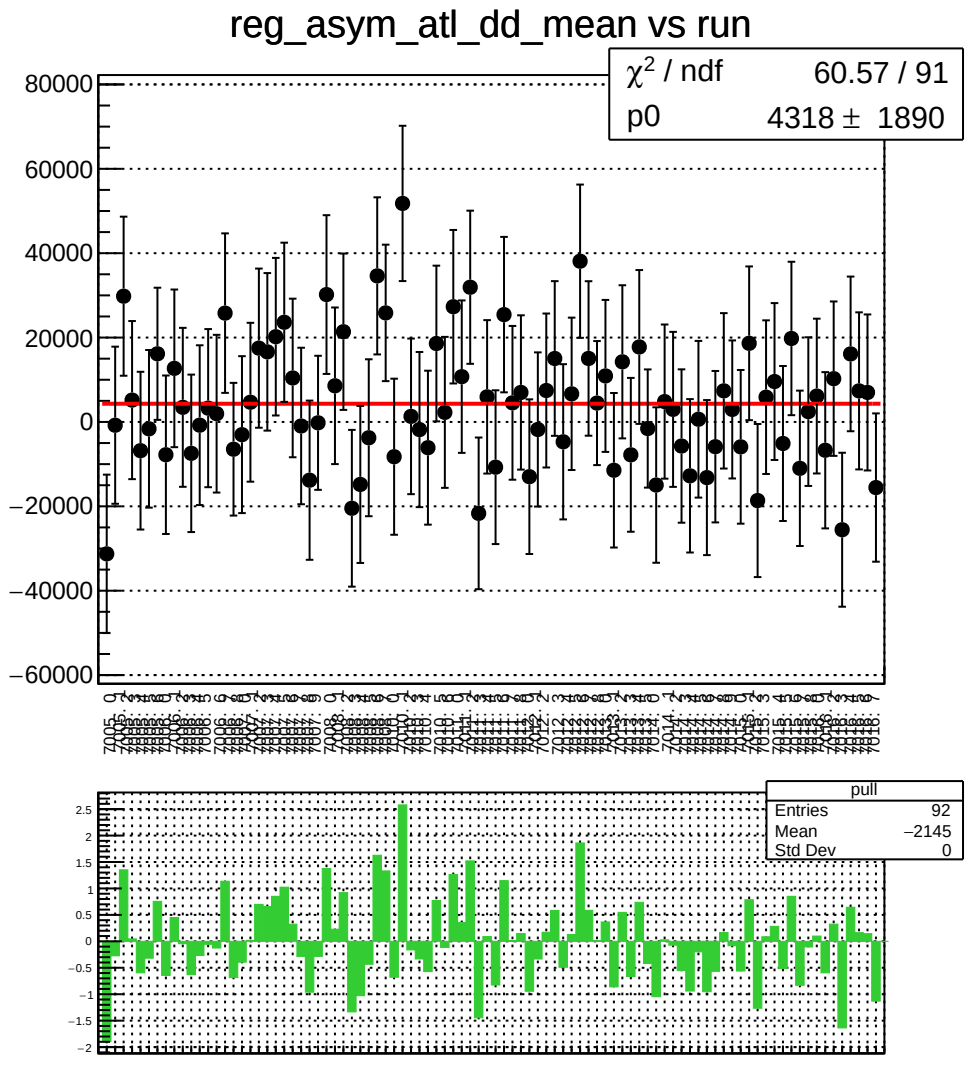

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.438e+04 / 91
p0 374.6 ± 0.2873
480
460
440
420
400
380
360
340
320
300
280
260

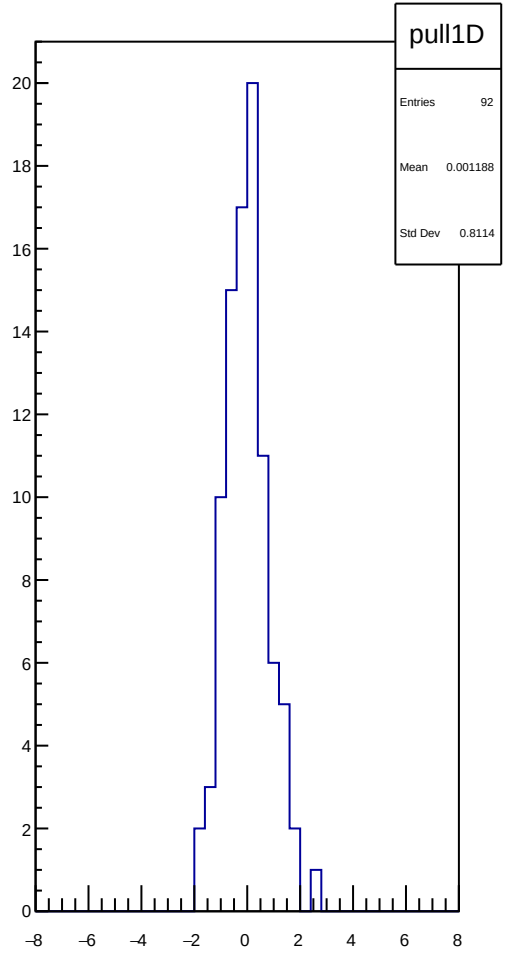

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.27 / 91
p0 −0.5503 ± 0.4062
pull
Entries 92
Mean 116.9
Std Dev 22.07
pull1D
Entries 92
Mean −0.008755
Std Dev 1.007

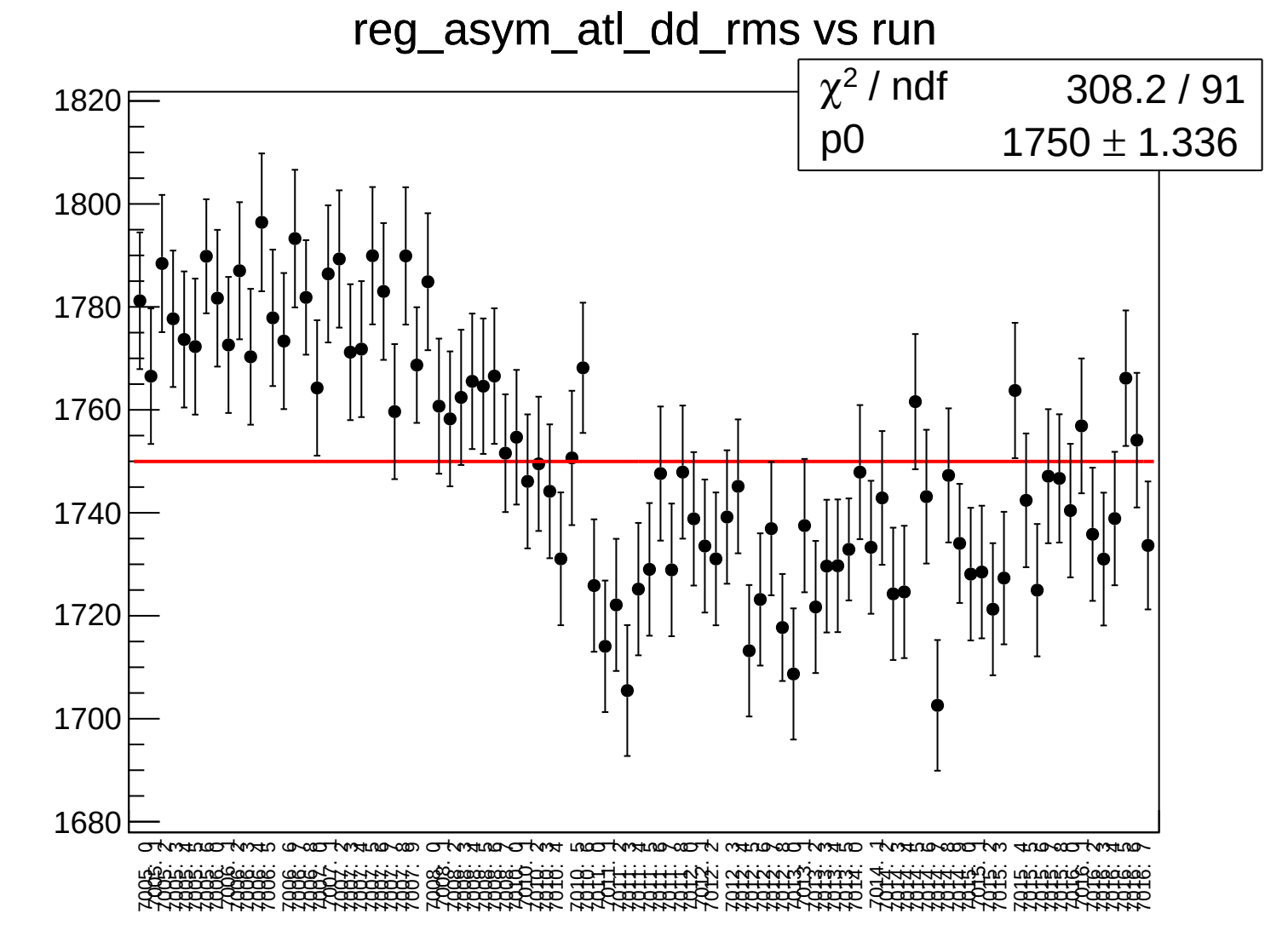

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.438e+04 / 91
p0 374.6 ± 0.2873
480
460
440
420
400
380
360
340
320
300
280
260

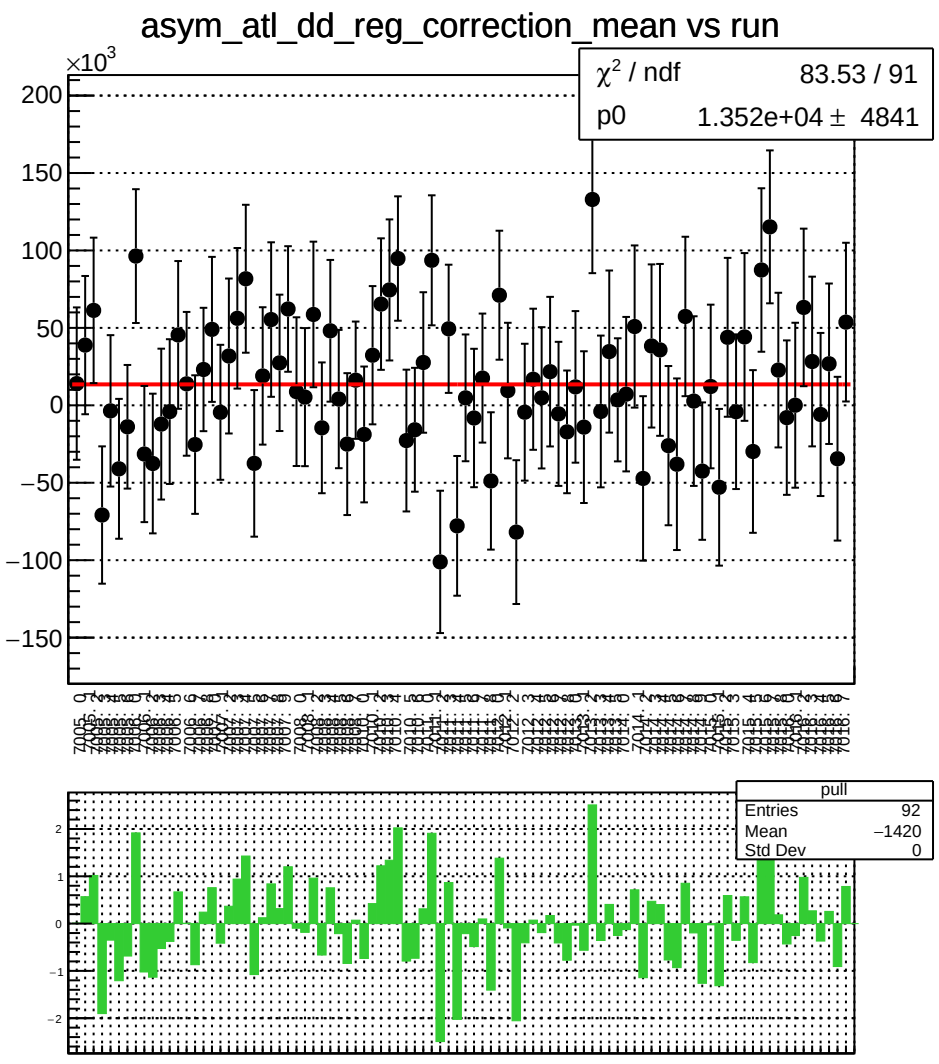

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 95.52 / 91
p0 3.592e−14 ± 8.747e−14
pull
Entries 92
Mean 50.99
Std Dev 22.42
pull1D
Entries 92
Mean 0.09929
Std Dev 1.014

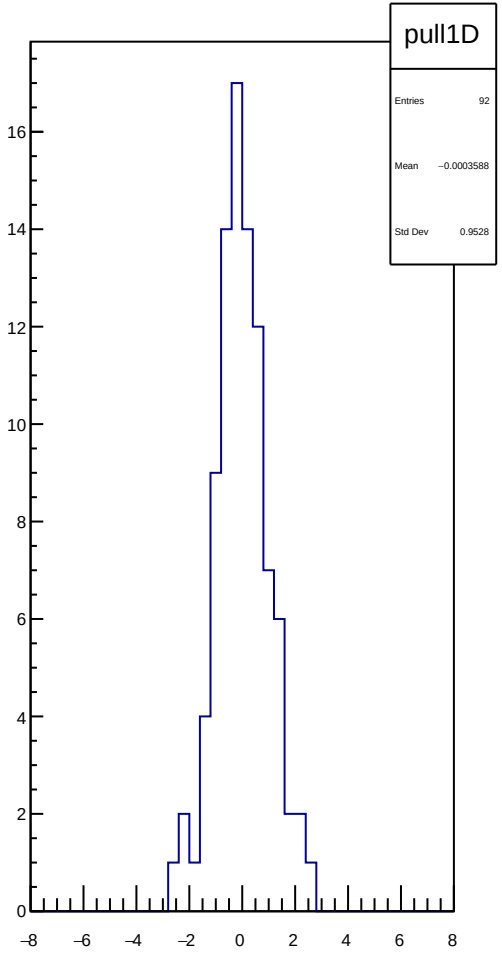

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.13e+05 / 91
p0 6.782e−11 ± 6.185e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

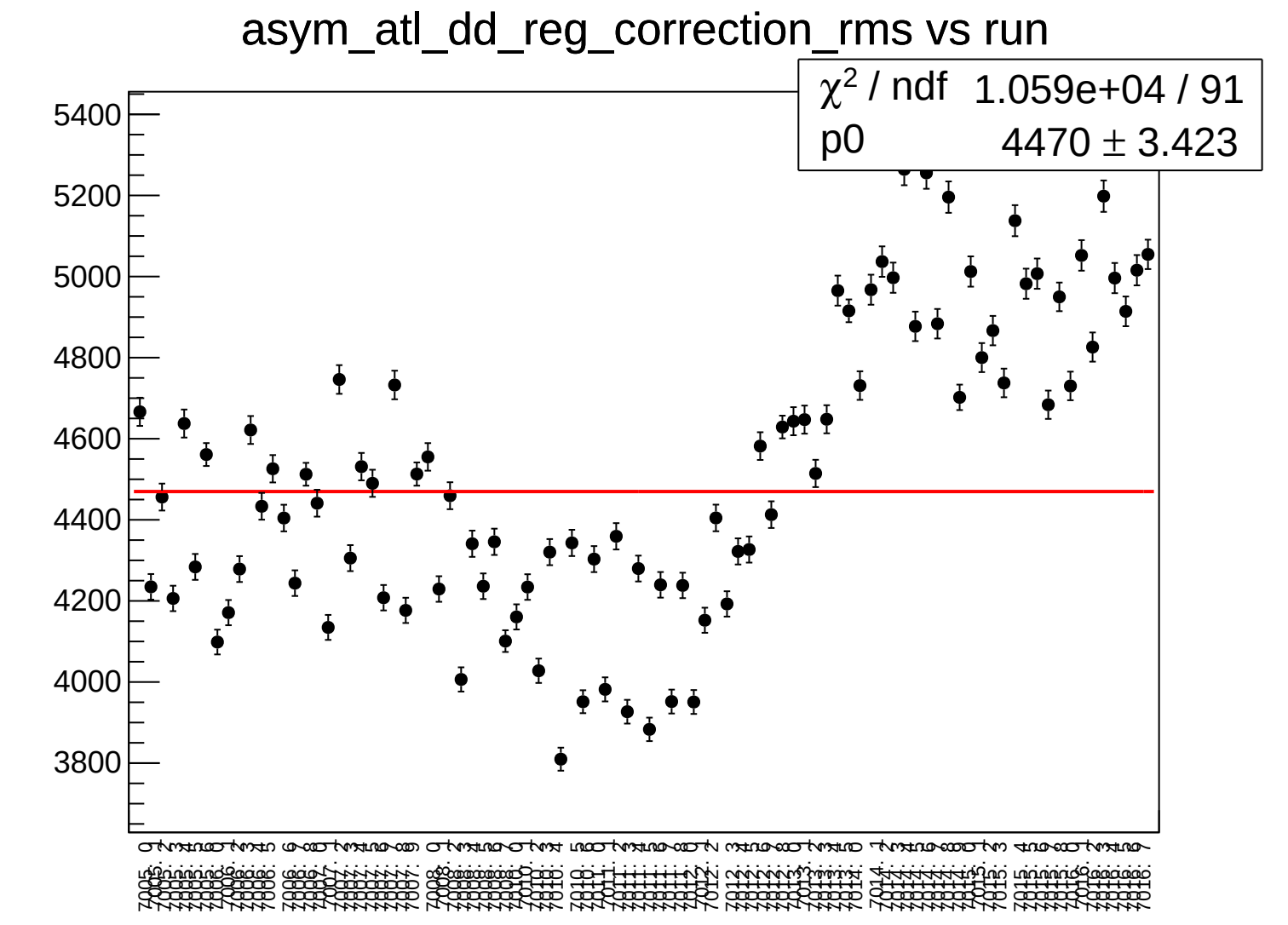

reg_asym_atl_dd_mean vs run
$\chi^2$ / ndf 60.57 / 91
p0 4318 ± 1890
pull
Entries 92
Mean −2145
Std Dev 0

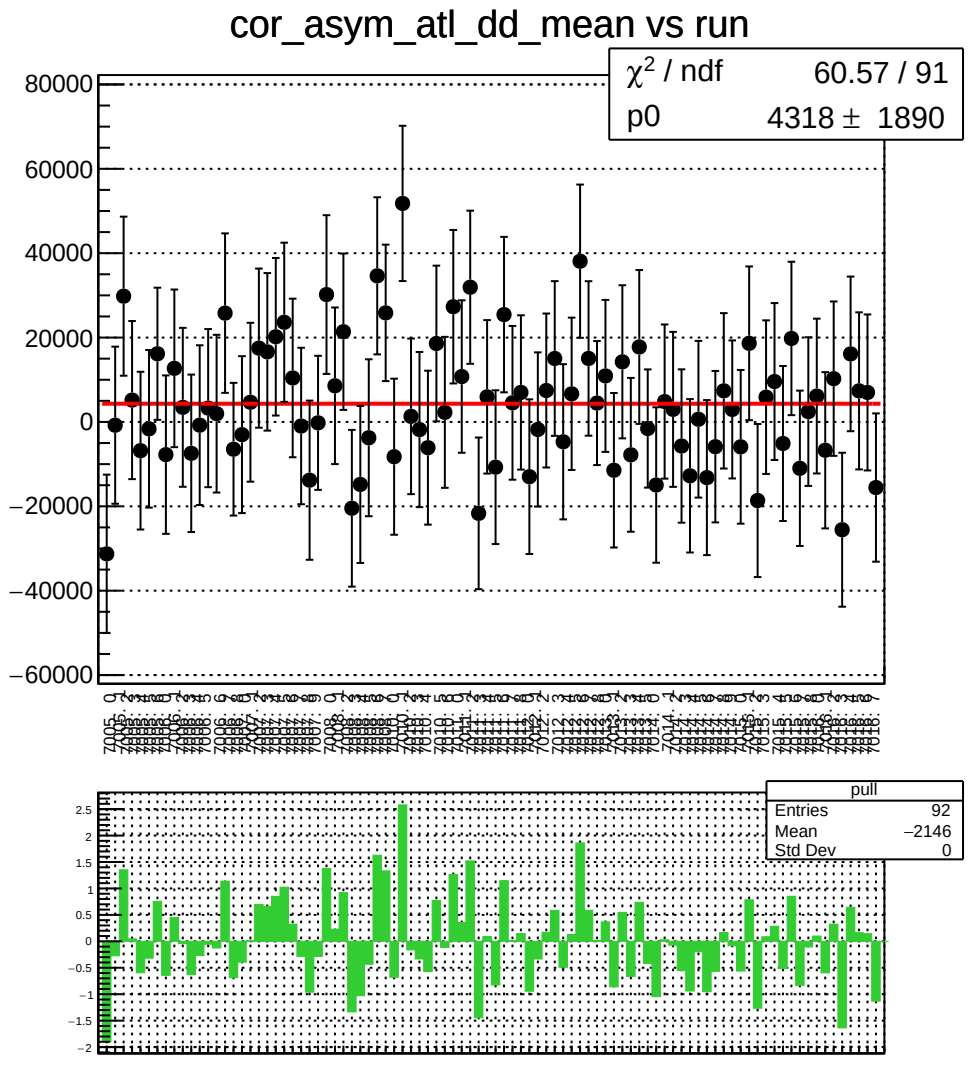

pull1D
Entries 92
Mean 0.001188
Std Dev 0.8114

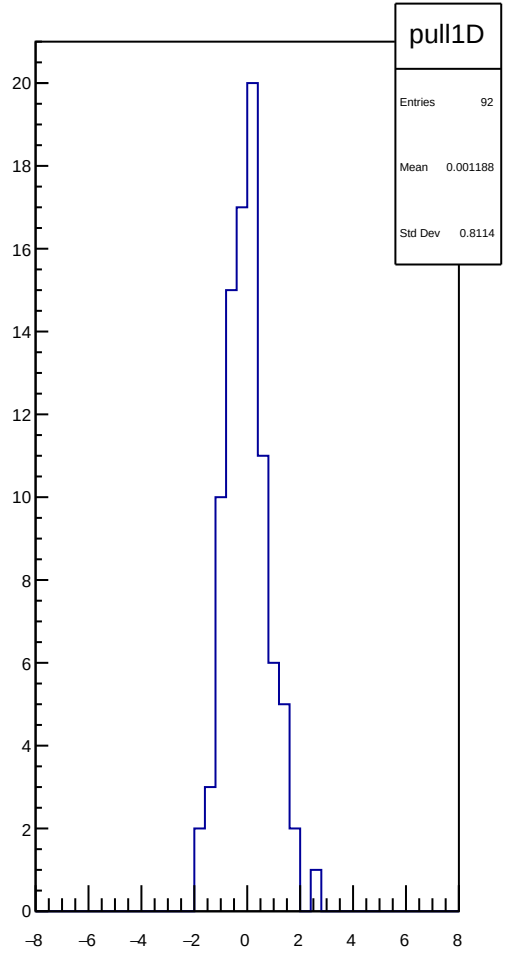

reg_asym_atl_dd_rms vs run
χ² / ndf 308.2 / 91
p0 1750 ± 1.336
1820
1800
1780
1760
1740
1720
1700
1680

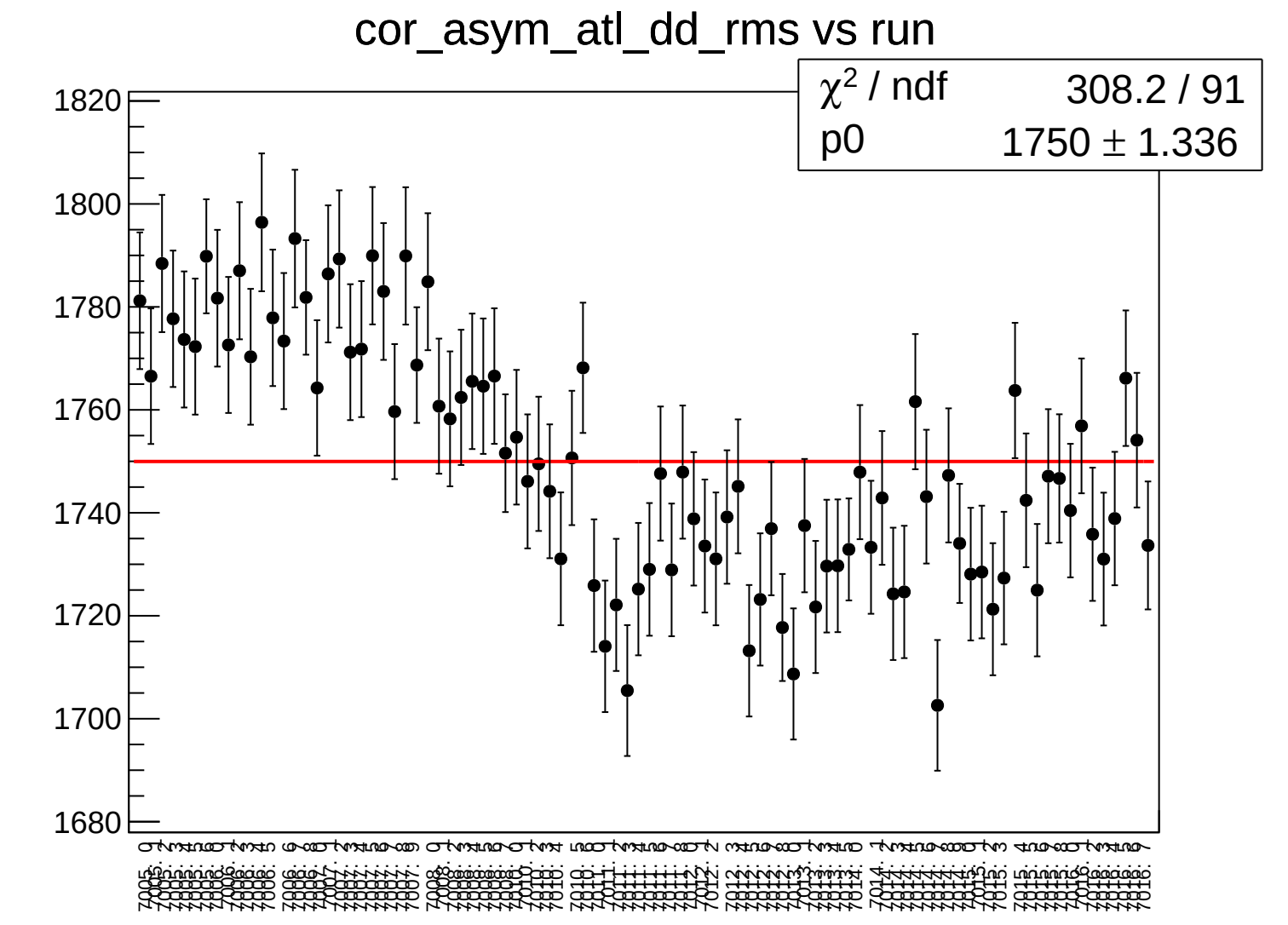

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 83.53 / 91
p0 1.352e+04 ± 4841
pull
Entries 92
Mean −1420
Std Dev 0

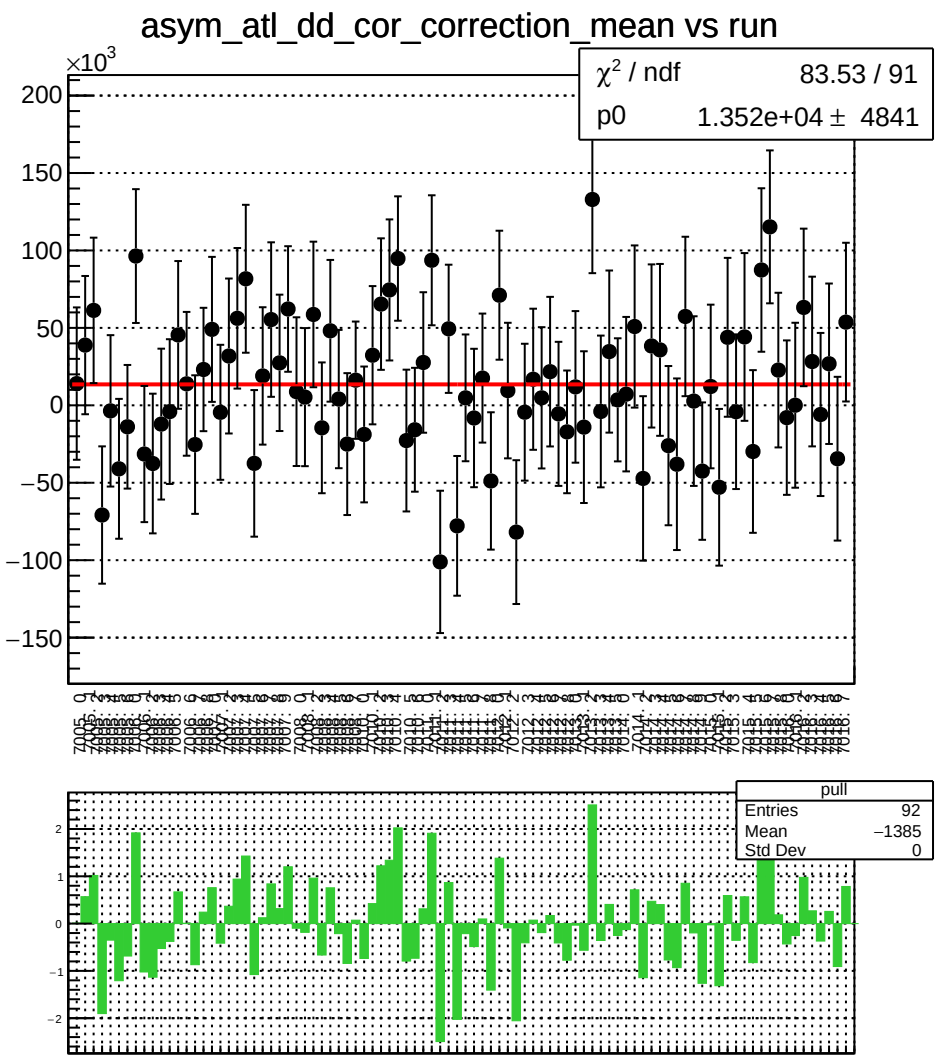

pull1D
Entries 92
Mean −0.0003588
Std Dev 0.9528

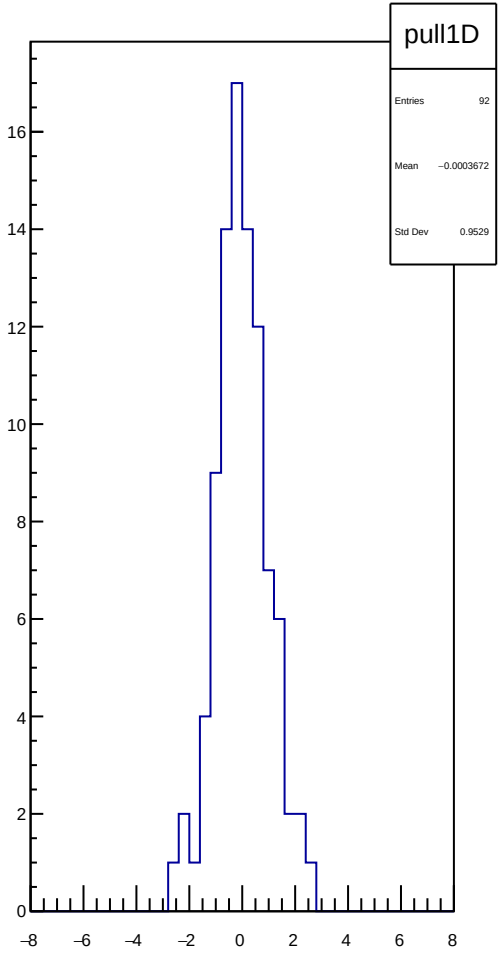

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 1.059e+04 / 91
p0 4470 ± 3.423
5400
5200
5000
4800
4600
4400
4200
4000
3800

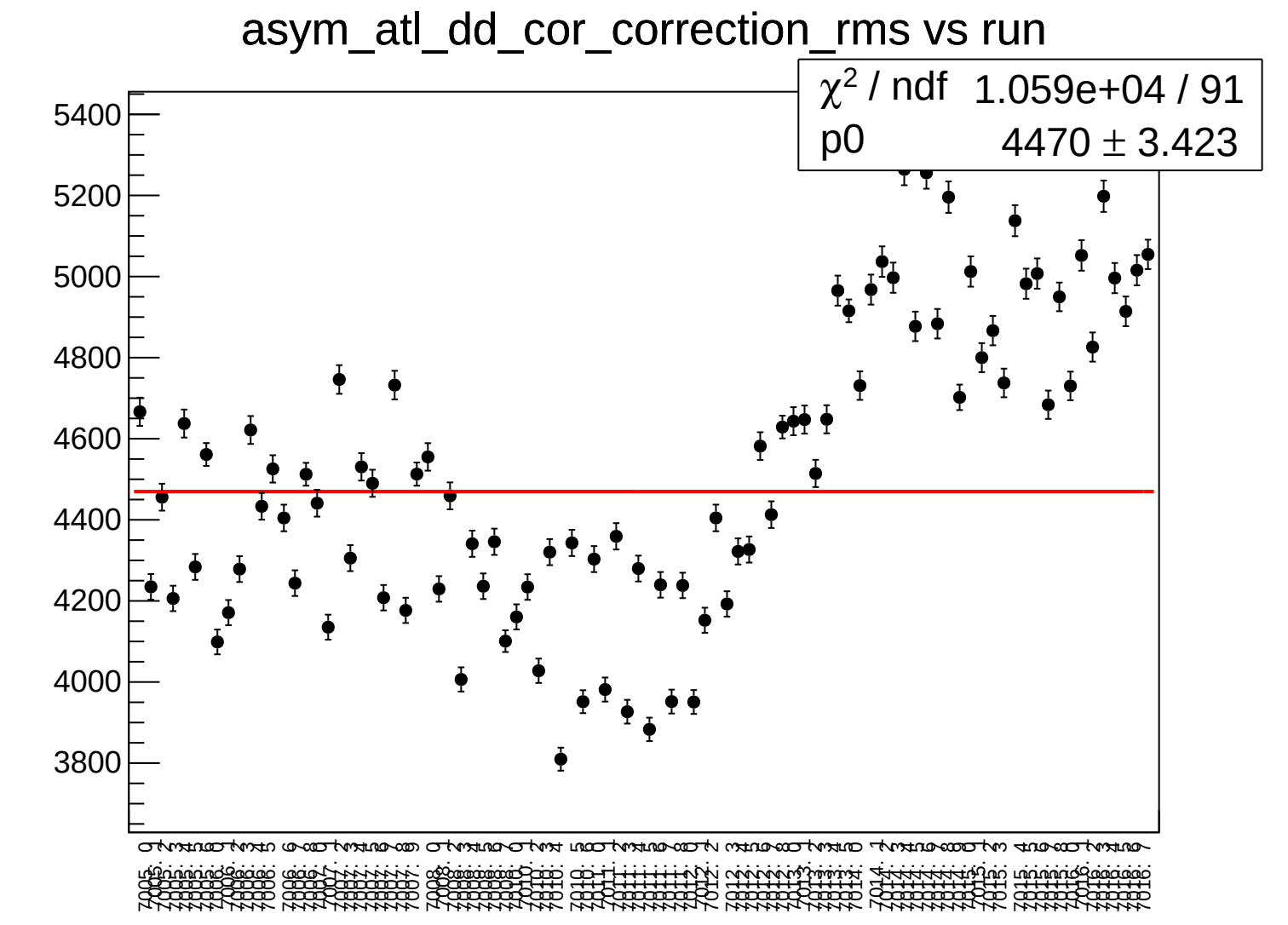

cor_asym_atl_dd_mean vs run
χ² / ndf 60.57 / 91
p0 4318 ± 1890
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −2146
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

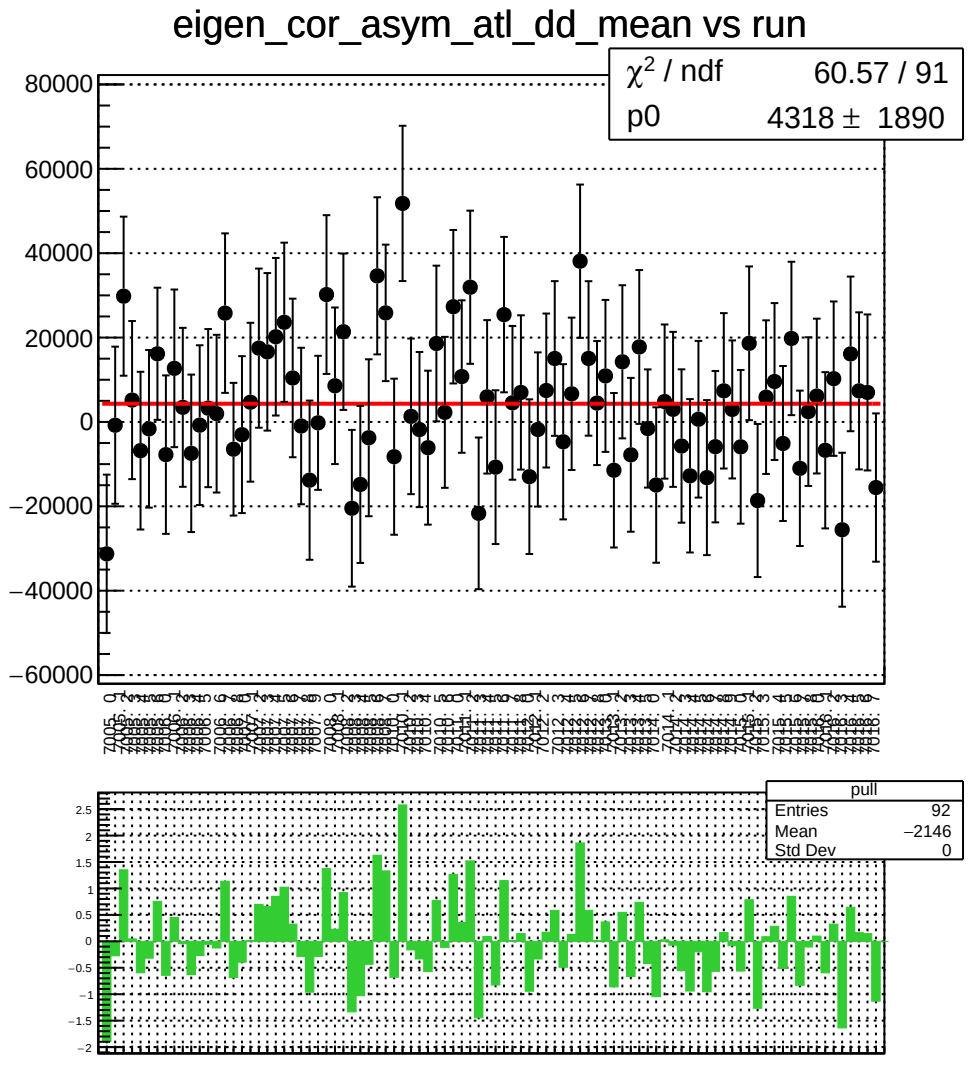

pull1D
Entries 92
Mean 0.001188
Std Dev 0.8114
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

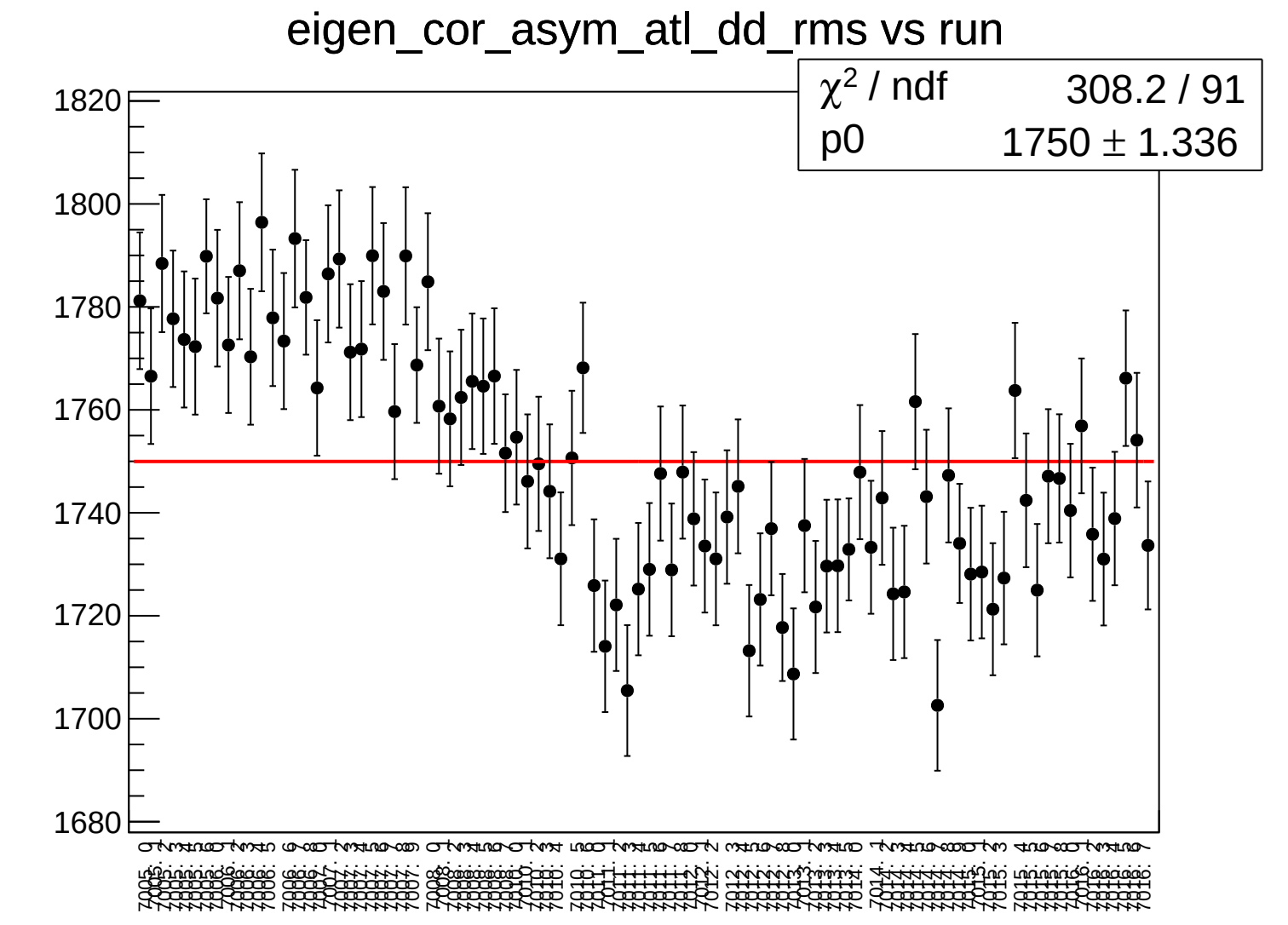

cor_asym_atl_dd_rms vs run
χ² / ndf 308.2 / 91
p0 1750 ± 1.336
1820
1800
1780
1760
1740
1720
1700
1680

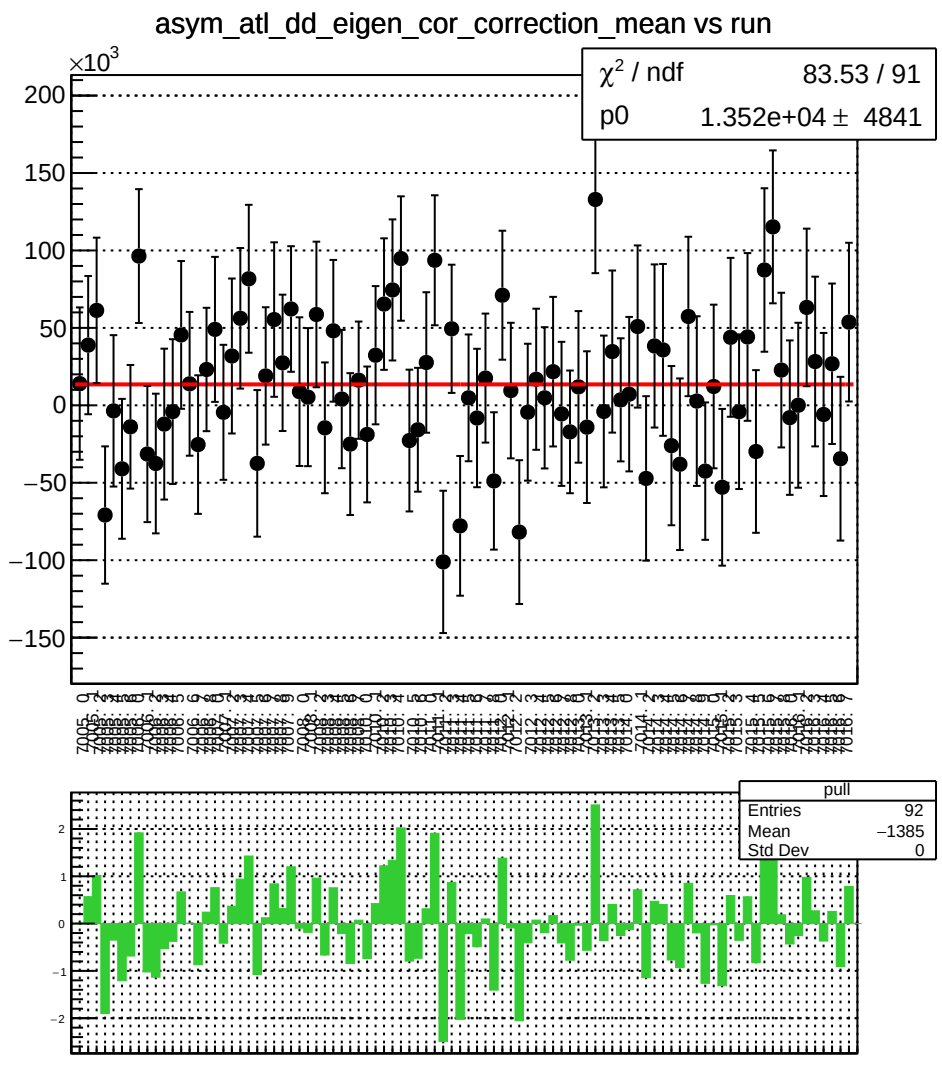

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 83.53 / 91
p0 1.352e+04 ± 4841
pull
Entries 92
Mean −1385
Std Dev 0

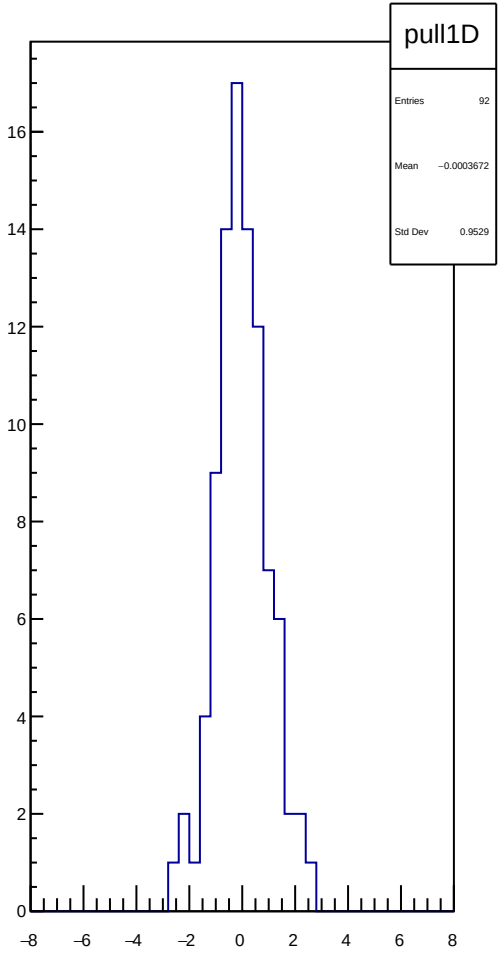

pull1D
Entries 92
Mean −0.0003672
Std Dev 0.9529

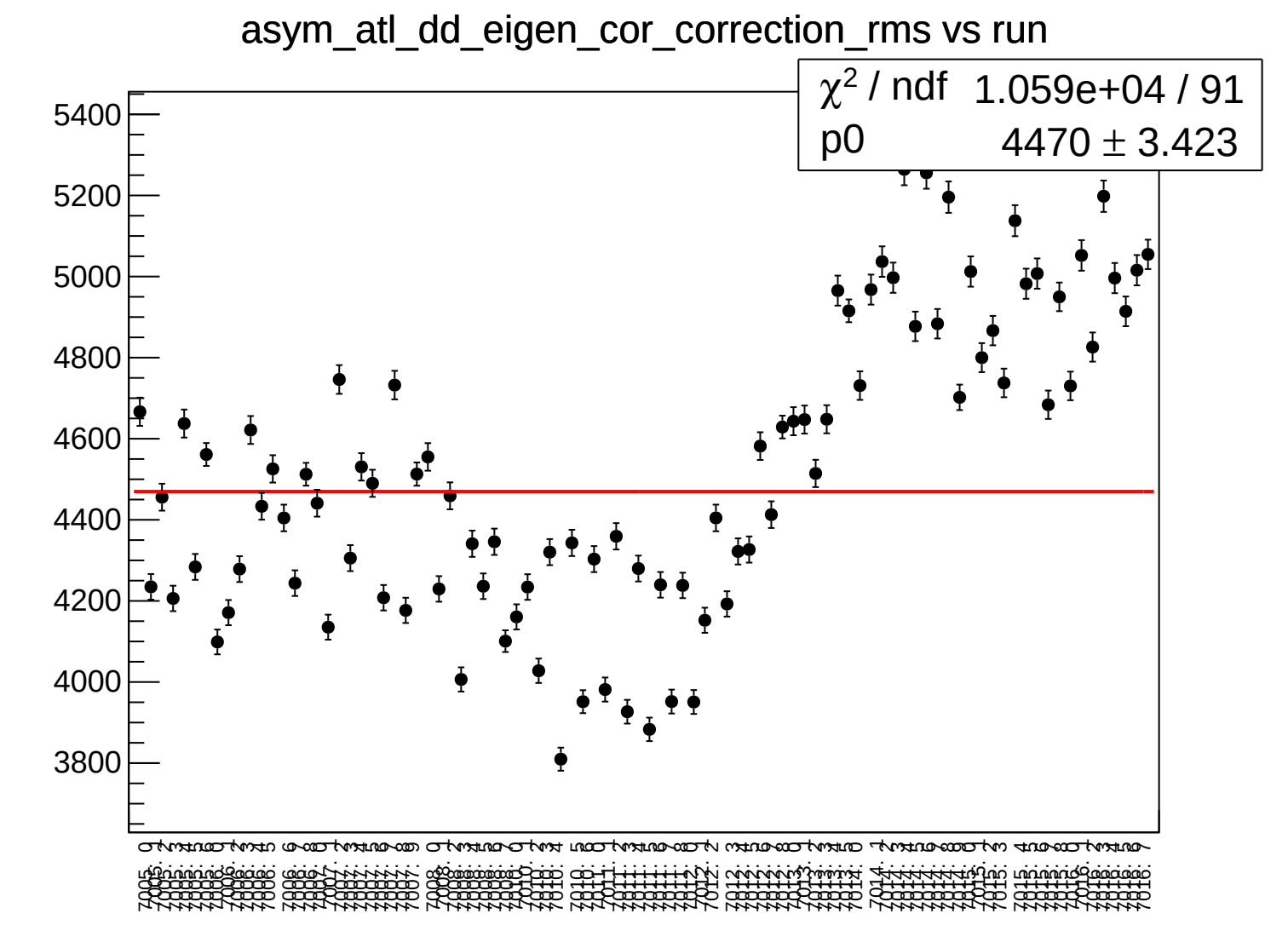

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 1.059e+04 / 91
p0 4470 ± 3.423
5400
5200
5000
4800
4600
4400
4200
4000
3800

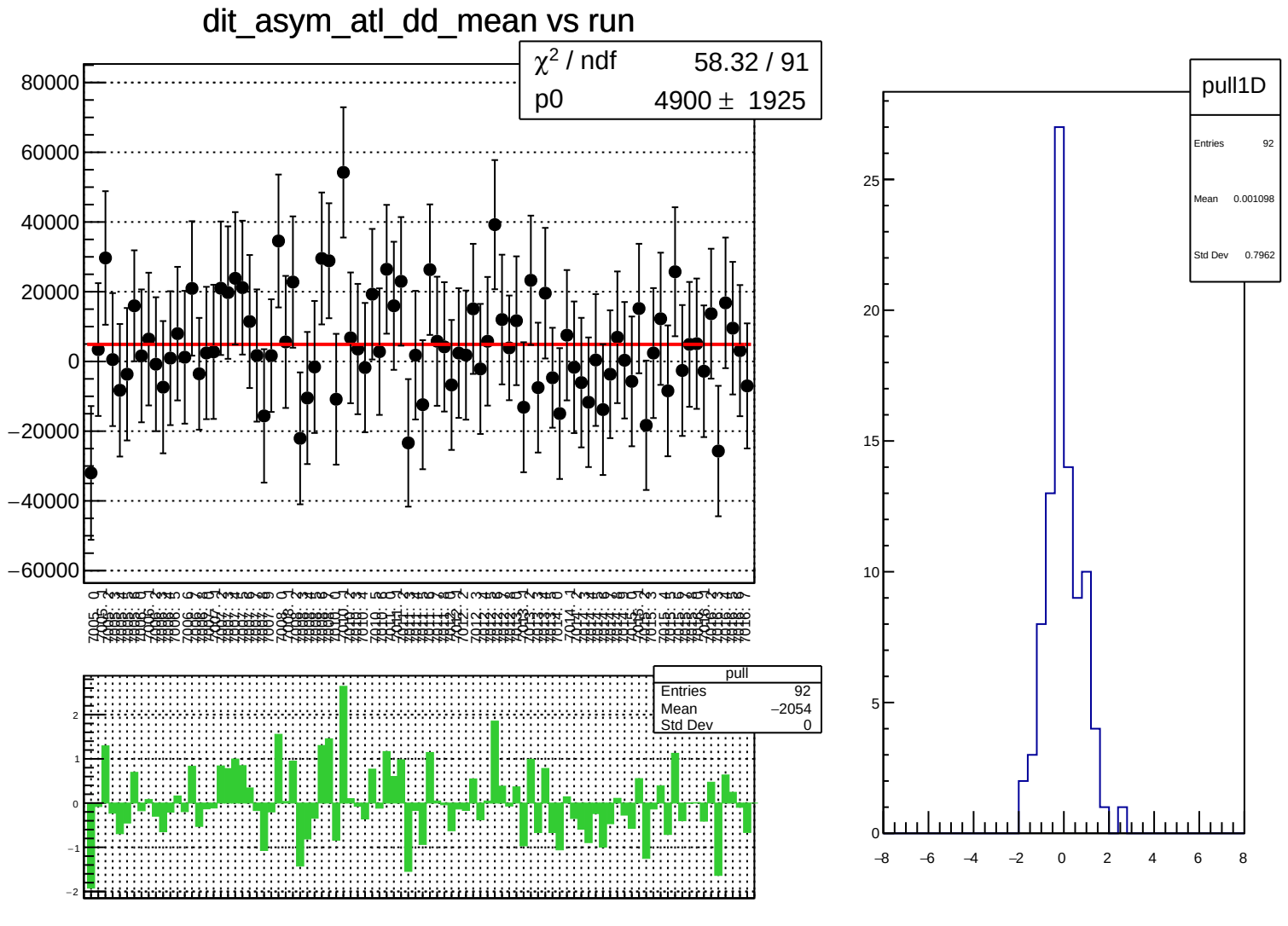

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 60.57 / 91
p0 4318 ± 1890
pull
Entries 92
Mean −2146
Std Dev 0
pull1D
Entries 92
Mean 0.001188
Std Dev 0.8114

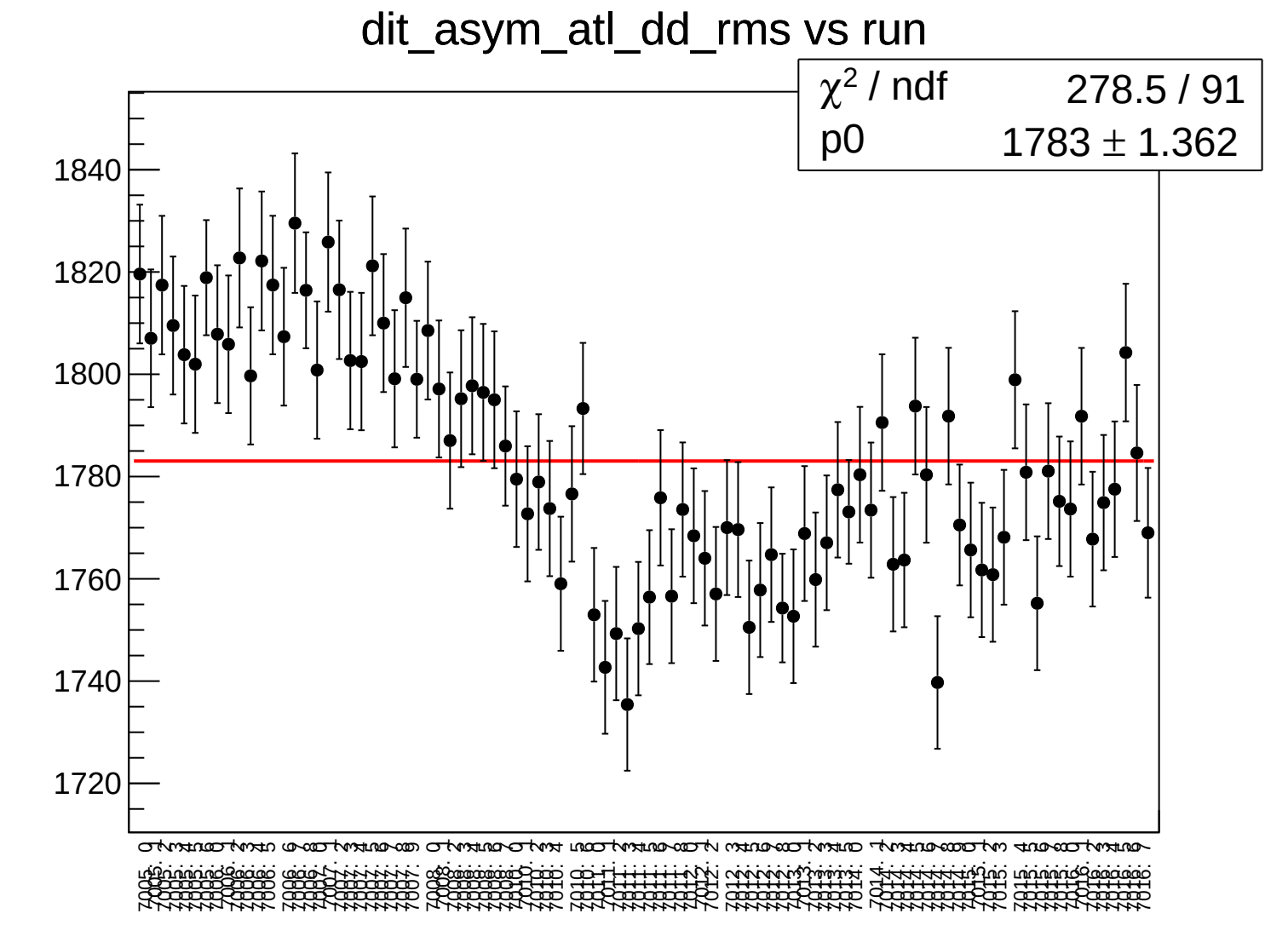

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 308.2 / 91
p0 1750 ± 1.336
1820
1800
1780
1760
1740
1720
1700
1680

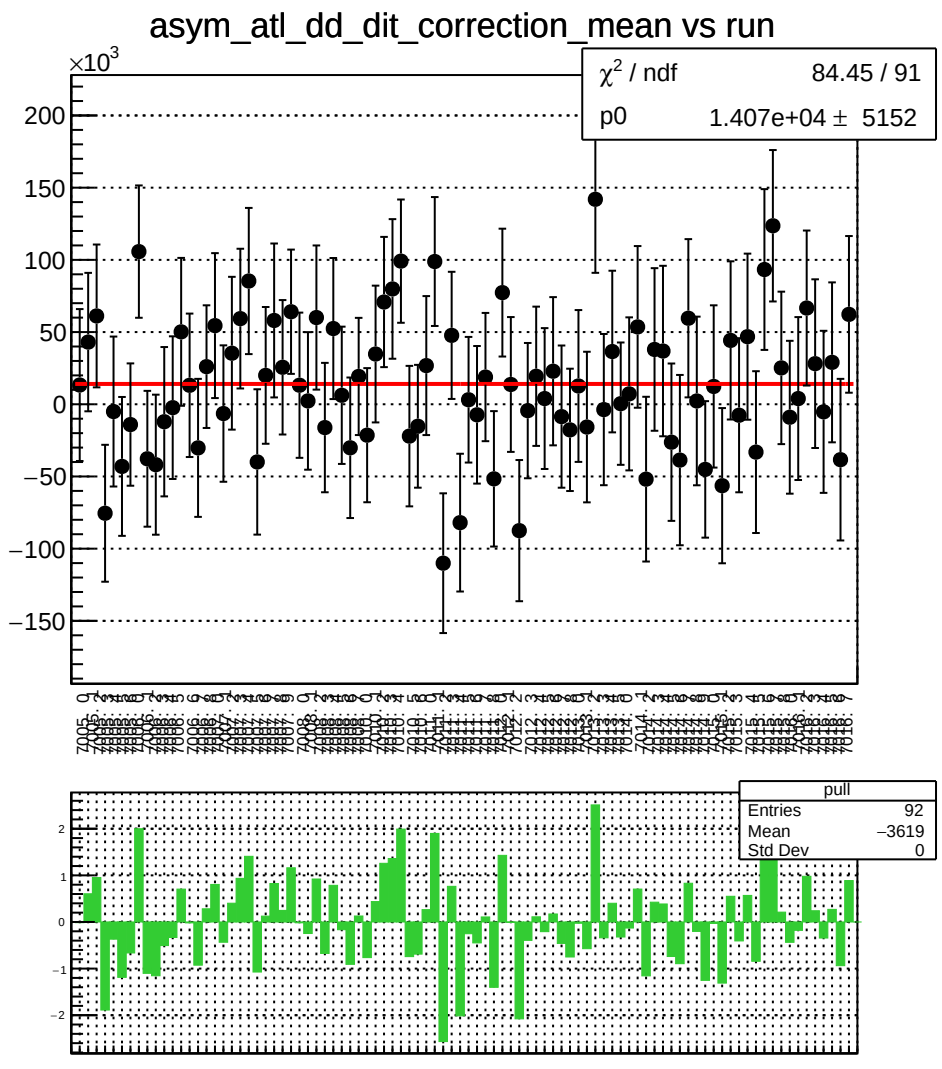

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.53 / 91
p0 1.352e+04 ± 4841
pull
Entries 92
Mean −1385
Std Dev 0

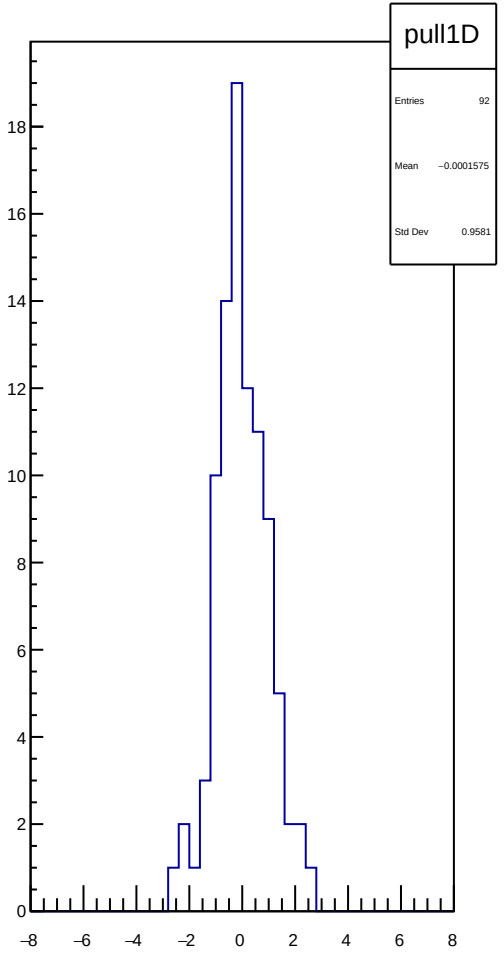

pull1D
Entries 92
Mean −0.0003672
Std Dev 0.9529

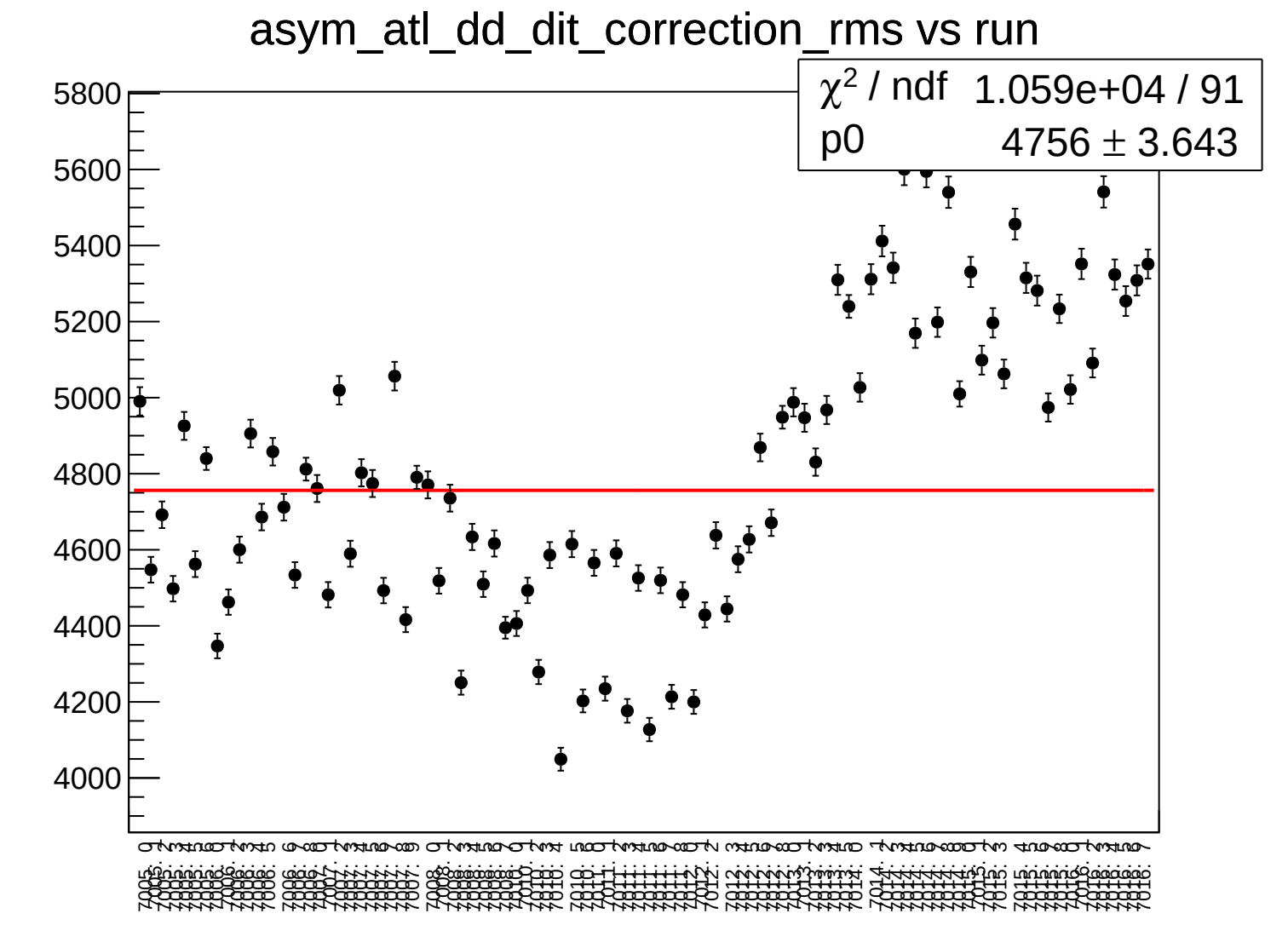

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.059e+04 / 91
p0 4470 ± 3.423
5400
5200
5000
4800
4600
4400
4200
4000
3800

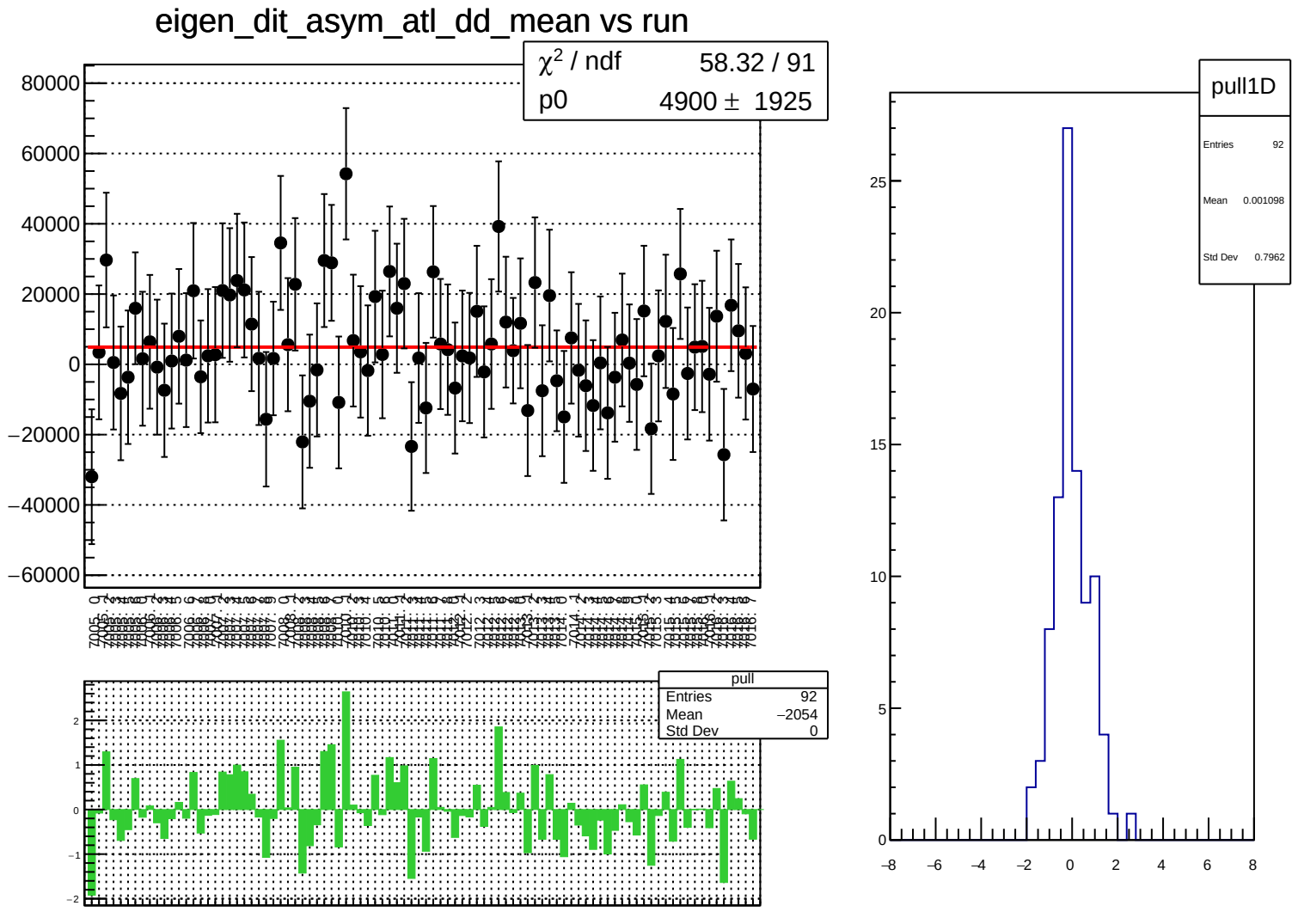

dit_asym_atl_dd_mean vs run
χ² / ndf 58.32 / 91
p0 4900 ± 1925
pull
Entries 92
Mean −2054
Std Dev 0
pull1D
Entries 92
Mean 0.001098
Std Dev 0.7962

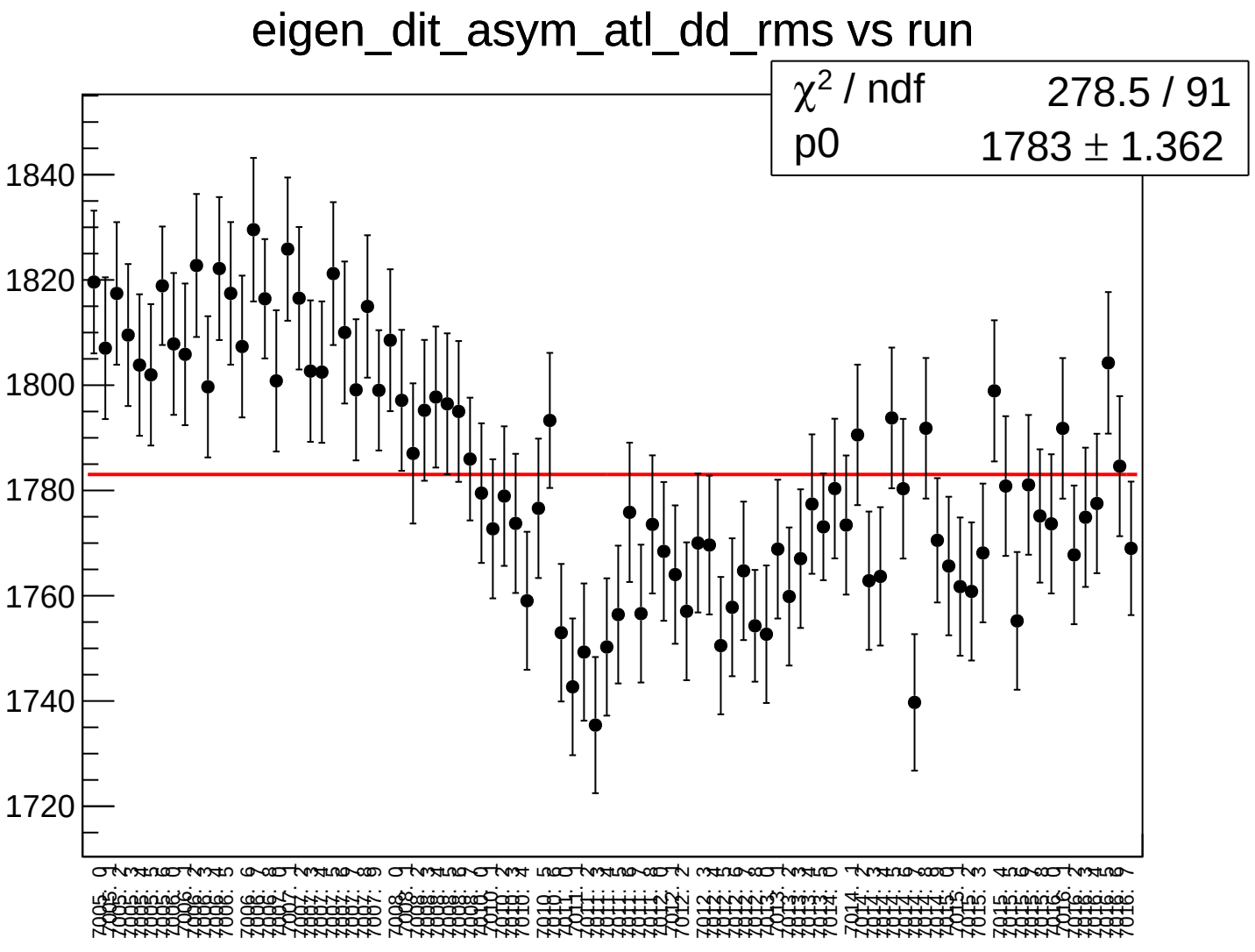

dit_asym_atl_dd_rms vs run
χ² / ndf 278.5 / 91
p0 1783 ± 1.362
1840
1820
1800
1780
1760
1740
1720

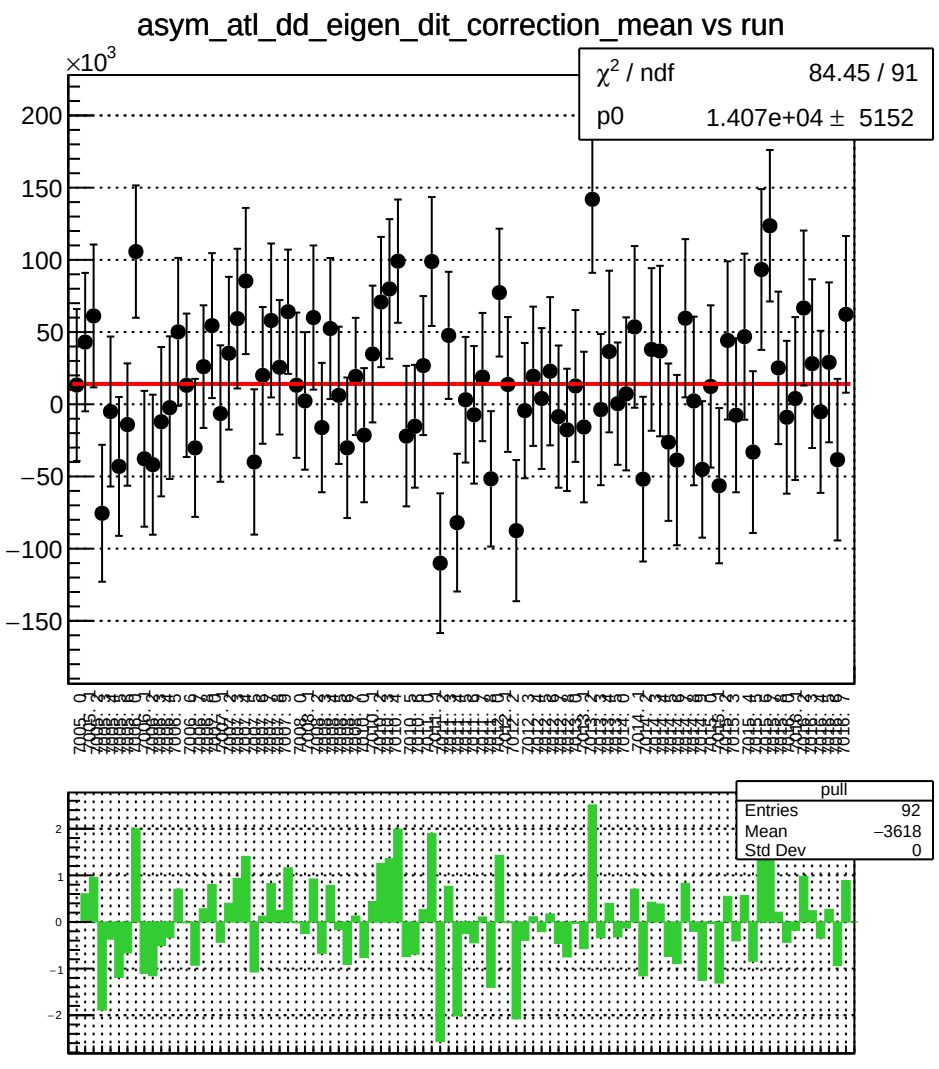

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 84.45 / 91
p0 1.407e+04 ± 5152
pull
Entries 92
Mean −3619
Std Dev 0

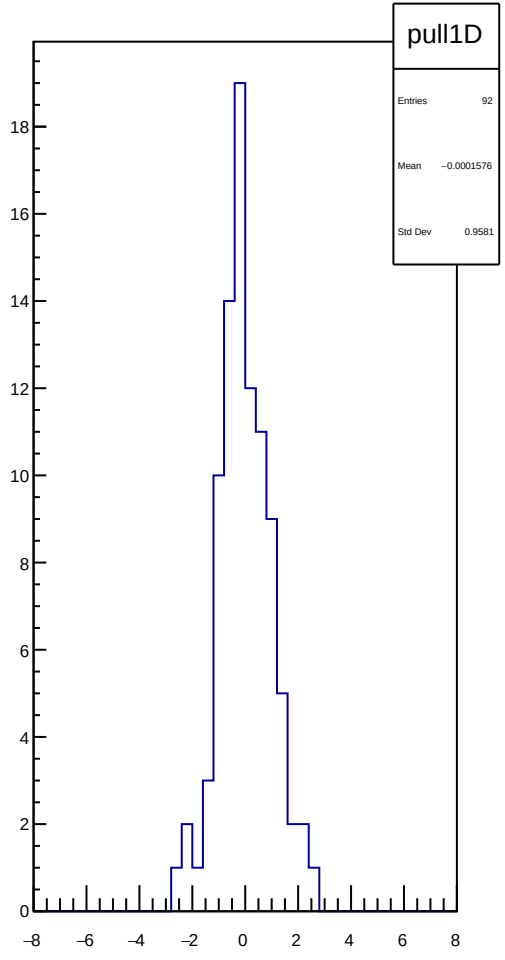

pull1D
Entries 92
Mean −0.0001575
Std Dev 0.9581

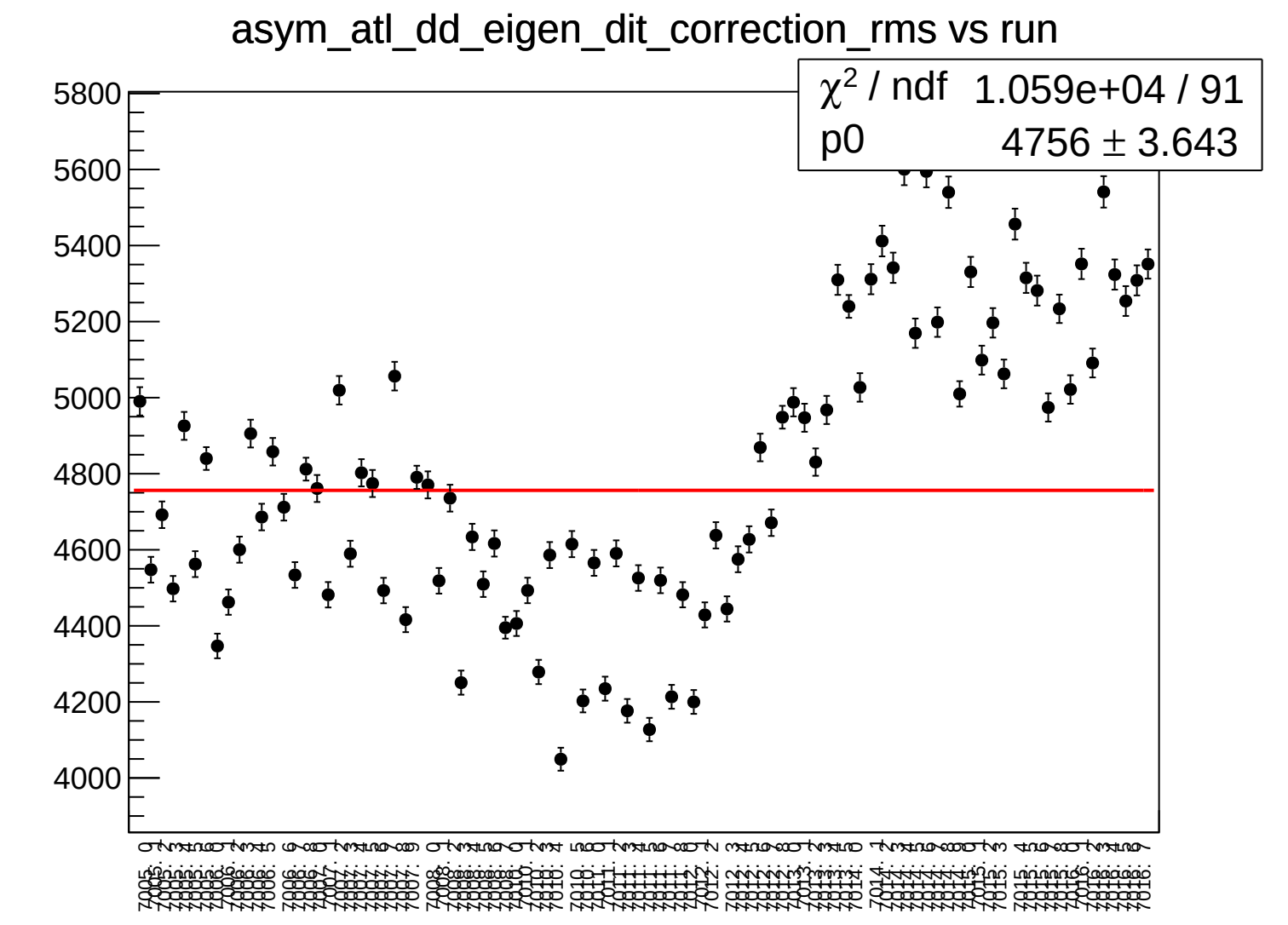

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 1.059e+04 / 91
p0 4756 ± 3.643
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

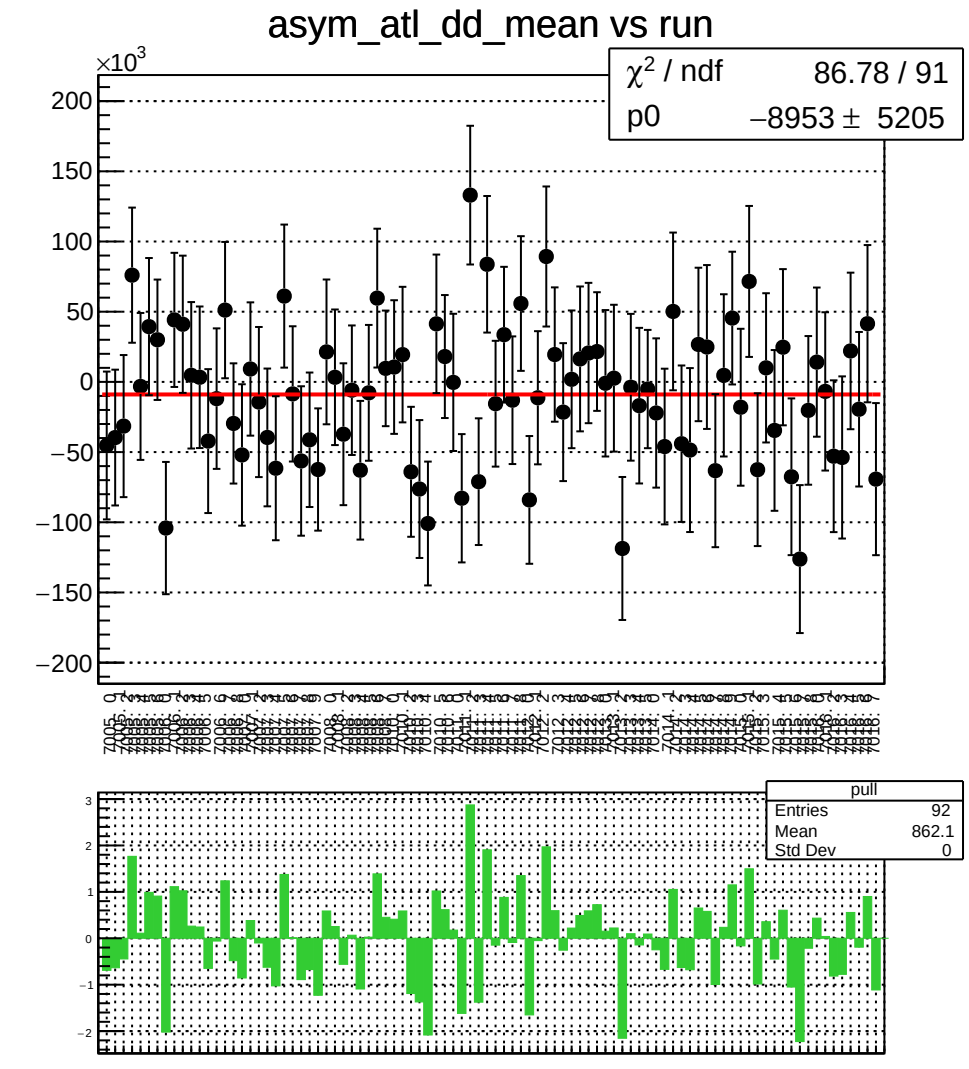

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 58.32 / 91
p0 4900 ± 1925
pull
Entries 92
Mean −2054
Std Dev 0
pull1D
Entries 92
Mean 0.001098
Std Dev 0.7962

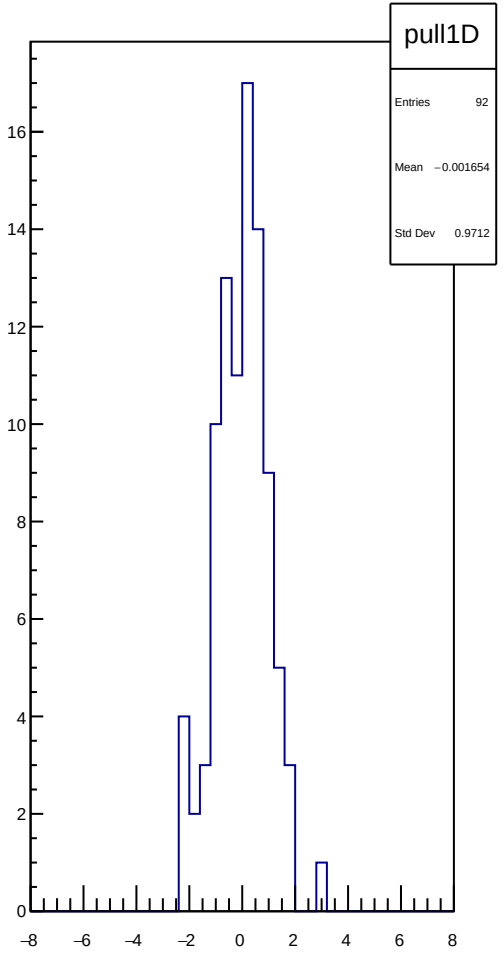

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 278.5 / 91
p0 1783 ± 1.362
1840
1820
1800
1780
1760
1740
1720

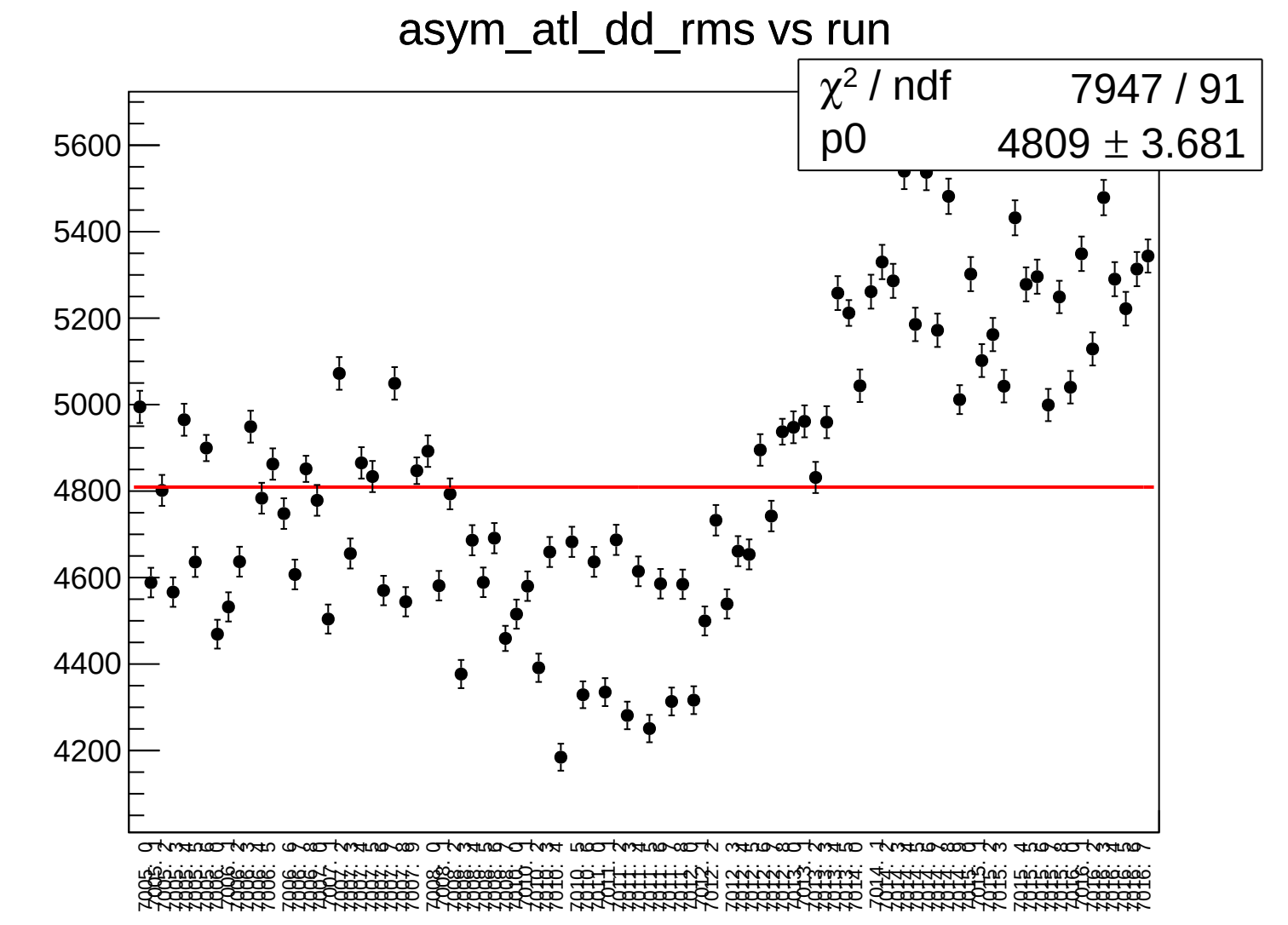

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.45 / 91
p0 1.407e+04 ± 5152
pull
Entries 92
Mean −3618
Std Dev 0

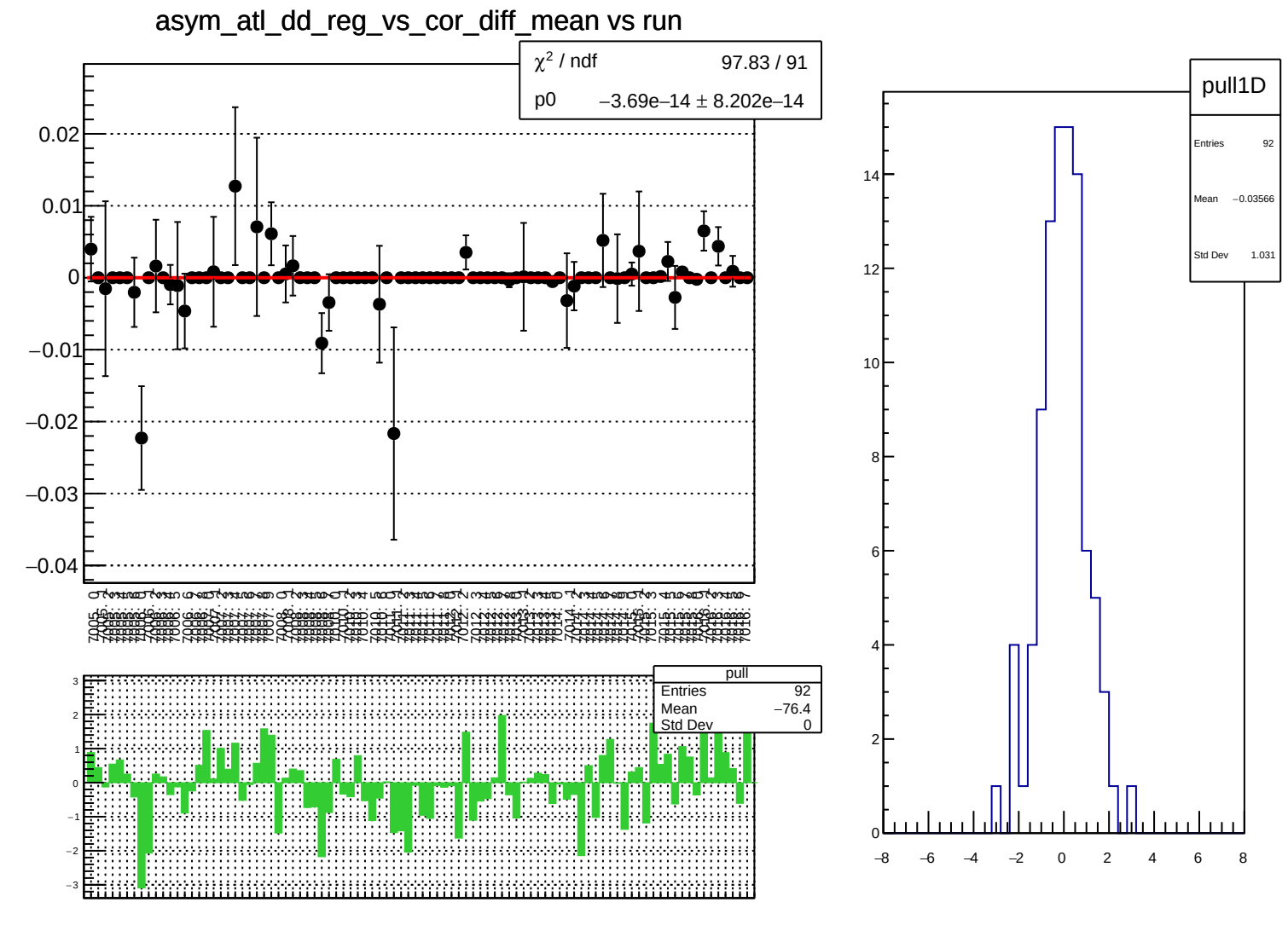

pull1D
Entries 92
Mean −0.0001576
Std Dev 0.9581

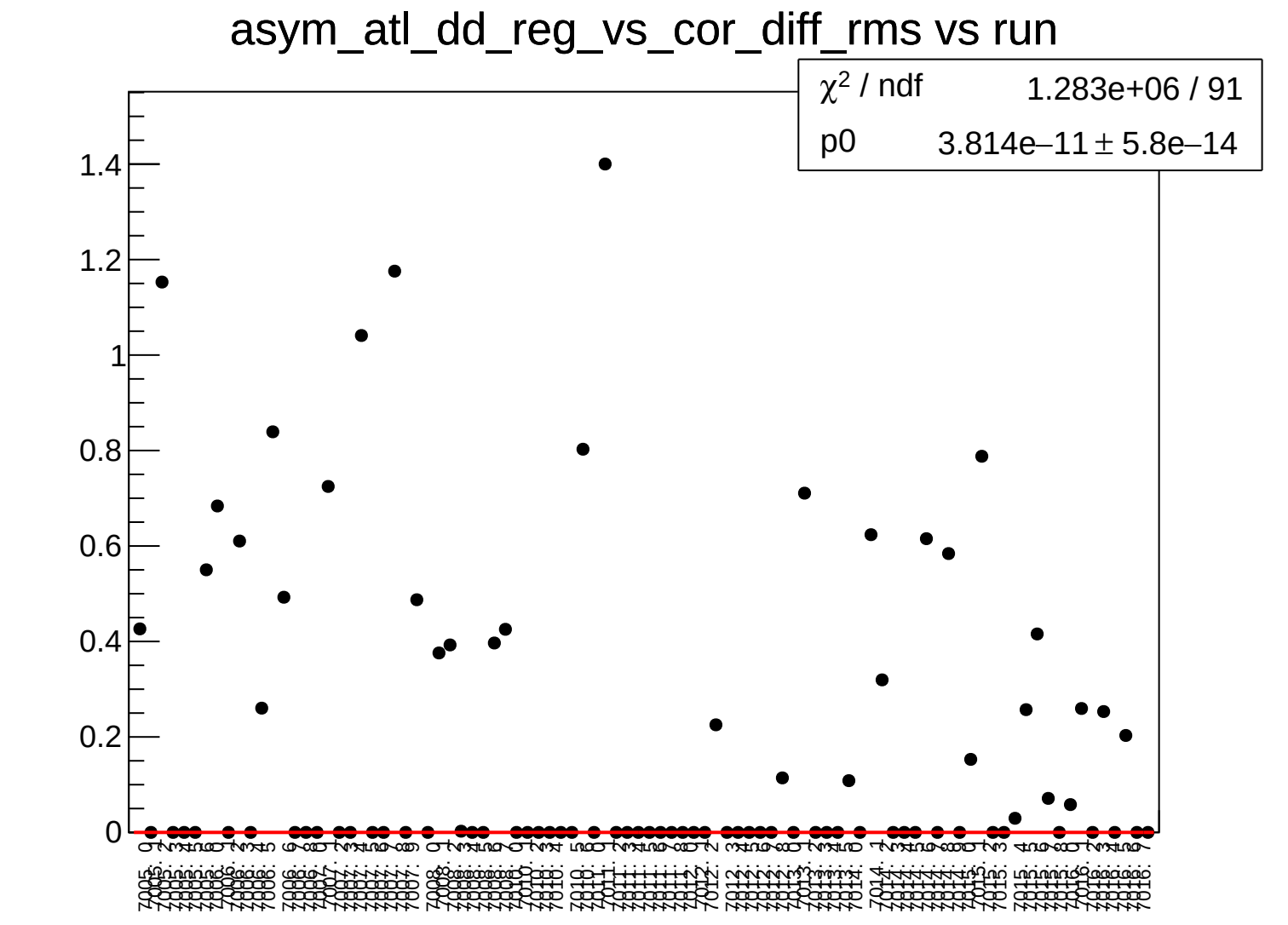

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.059e+04 / 91
p0 4756 ± 3.643
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

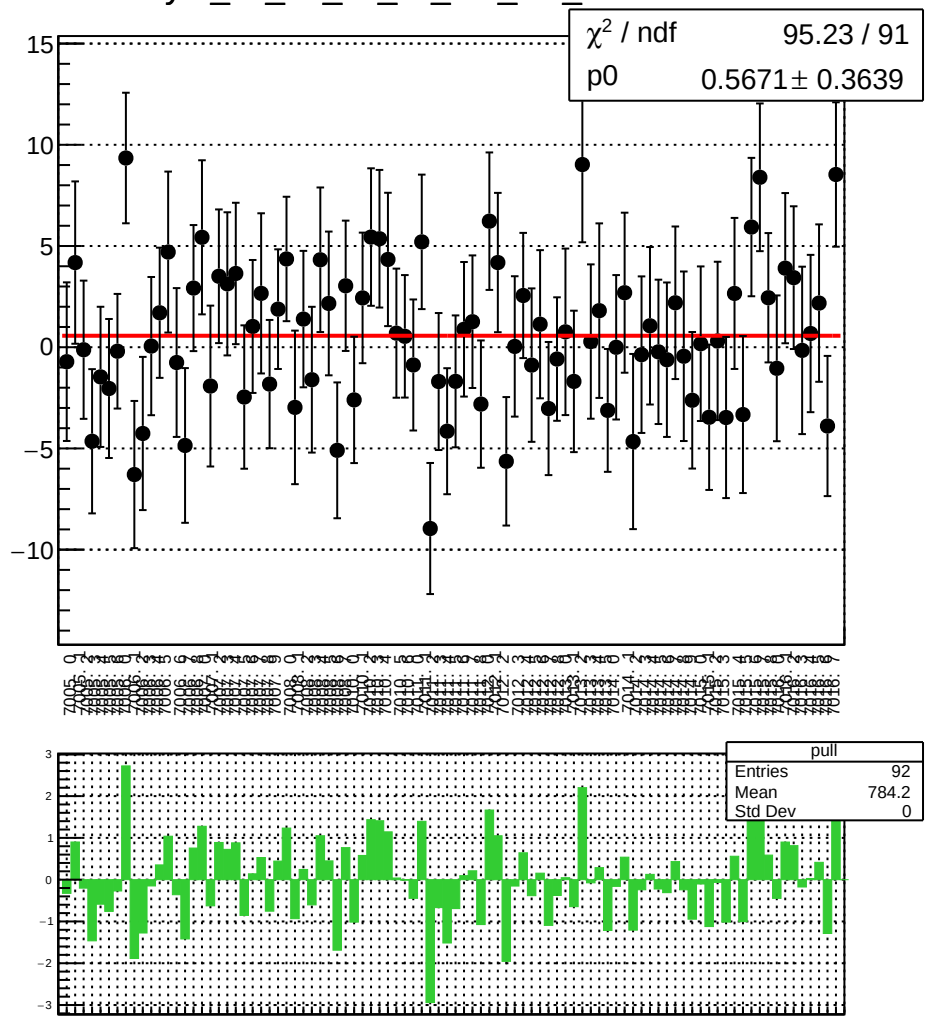

asym_atl_dd_mean vs run
×10^3
χ² / ndf 86.78 / 91
p0 −8953 ± 5205
pull
Entries 92
Mean 862.1
Std Dev 0

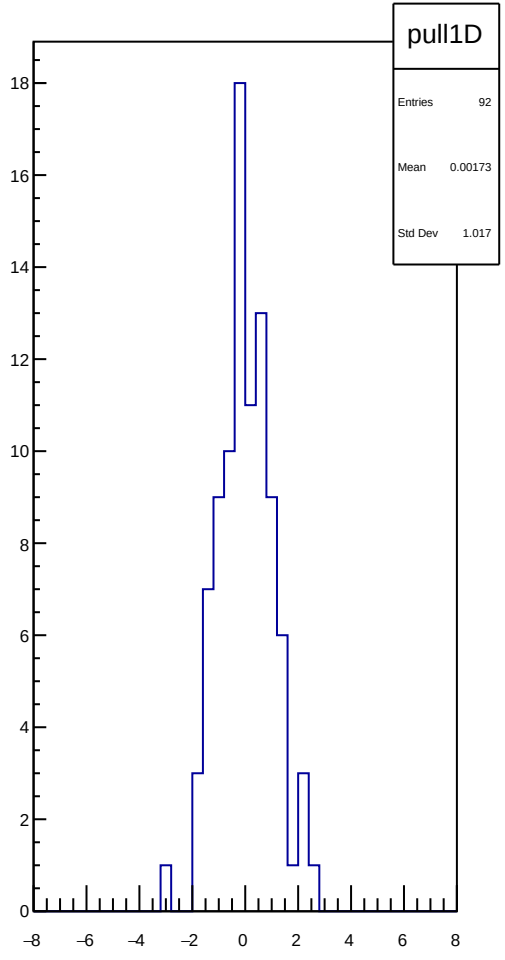

pull1D
Entries 92
Mean −0.001654
Std Dev 0.9712

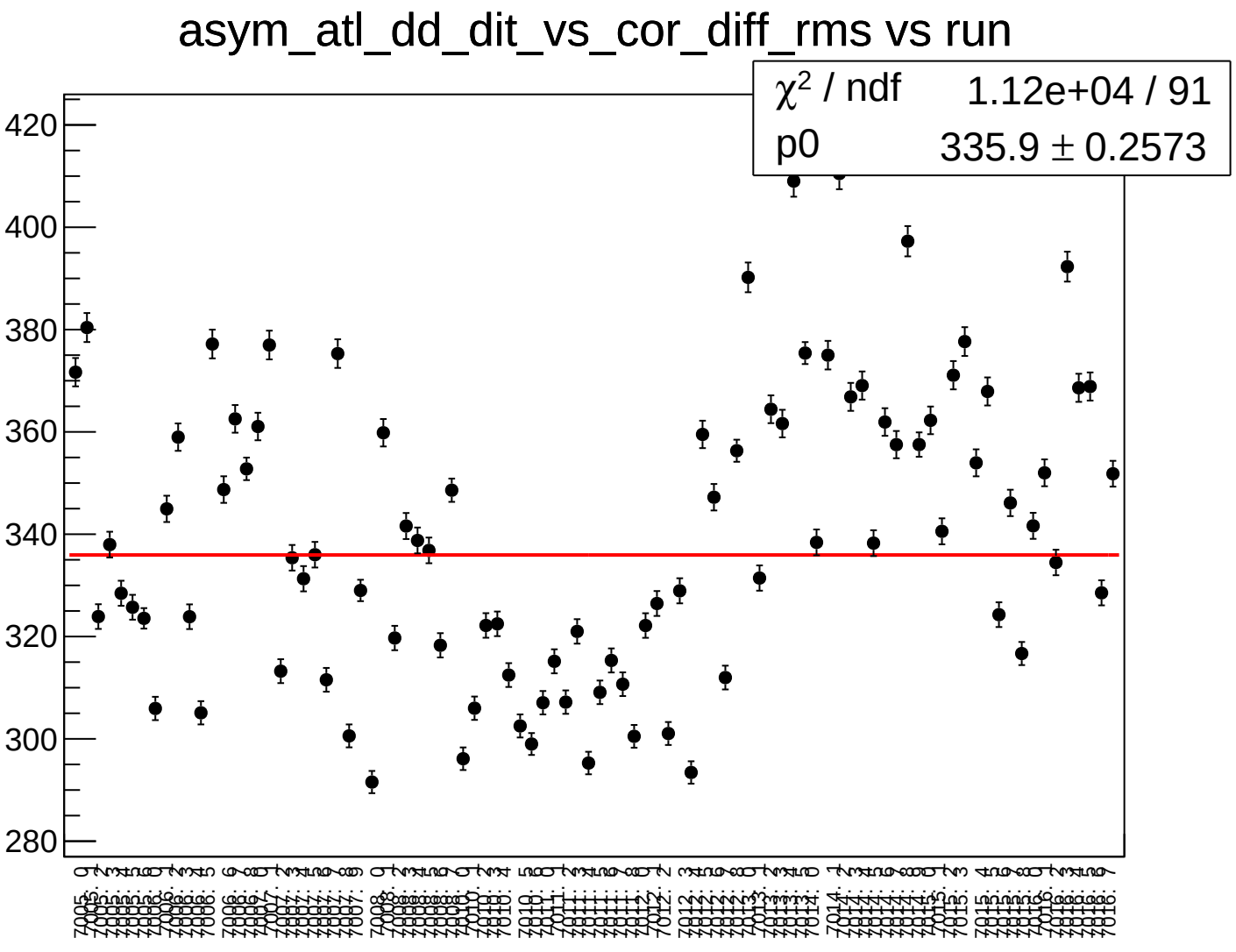

asym_atl_dd_rms vs run
χ² / ndf 7947 / 91
p0 4809 ± 3.681
5600
5400
5200
5000
4800
4600
4400
4200

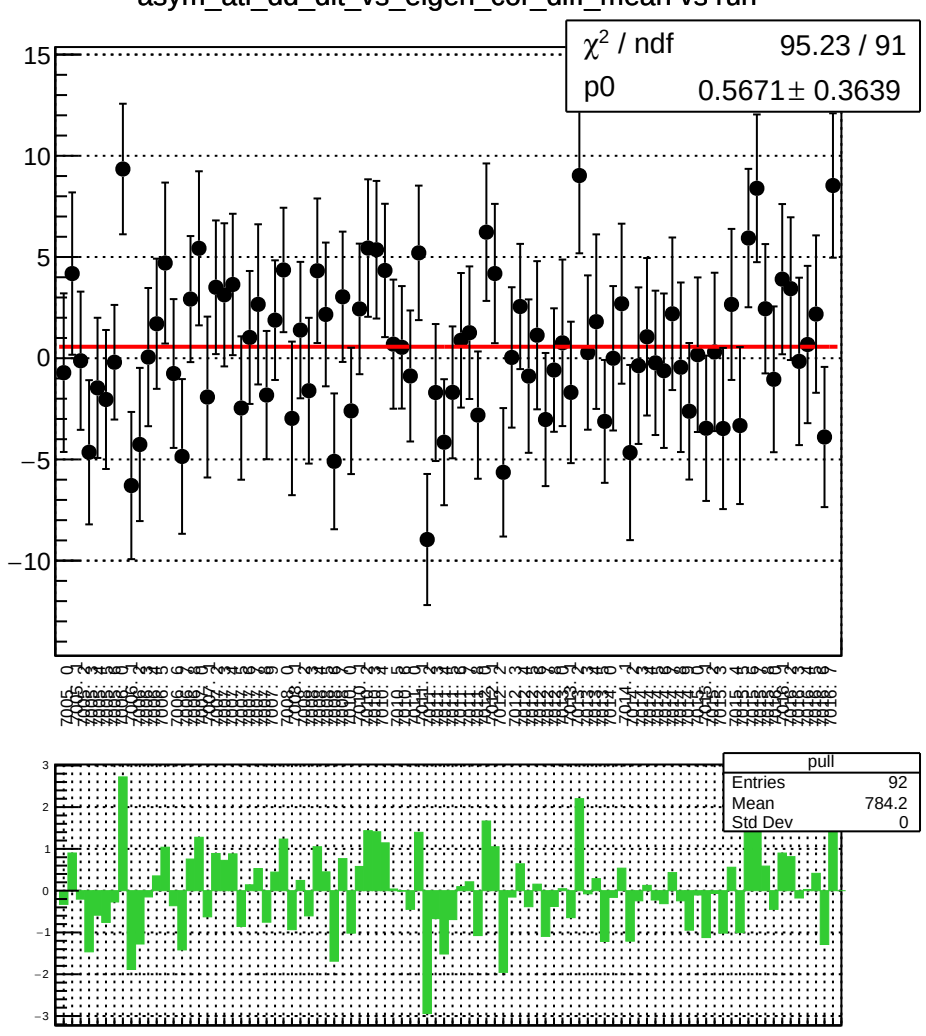

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.83 / 91
p0 −3.69e−14 ± 8.202e−14
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 92
Mean −76.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.03566
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

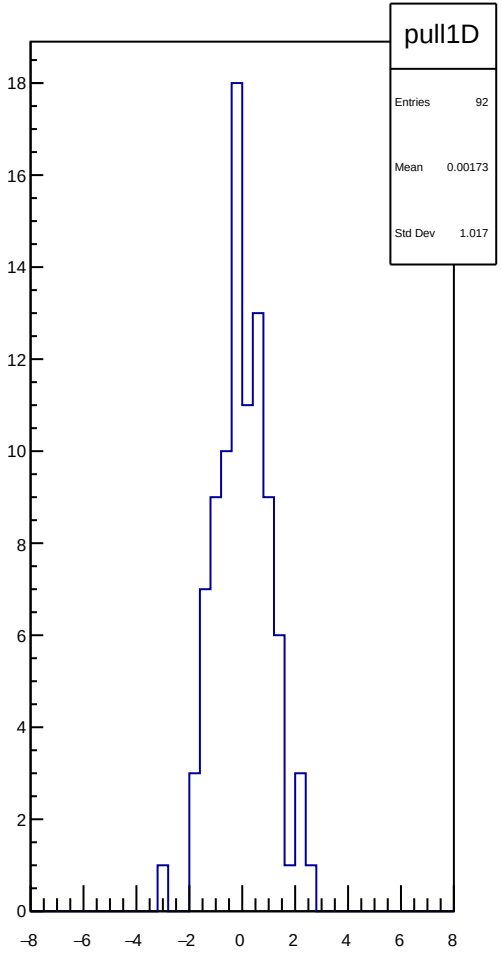

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.283e+06 / 91
p0 3.814e−11 ± 5.8e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

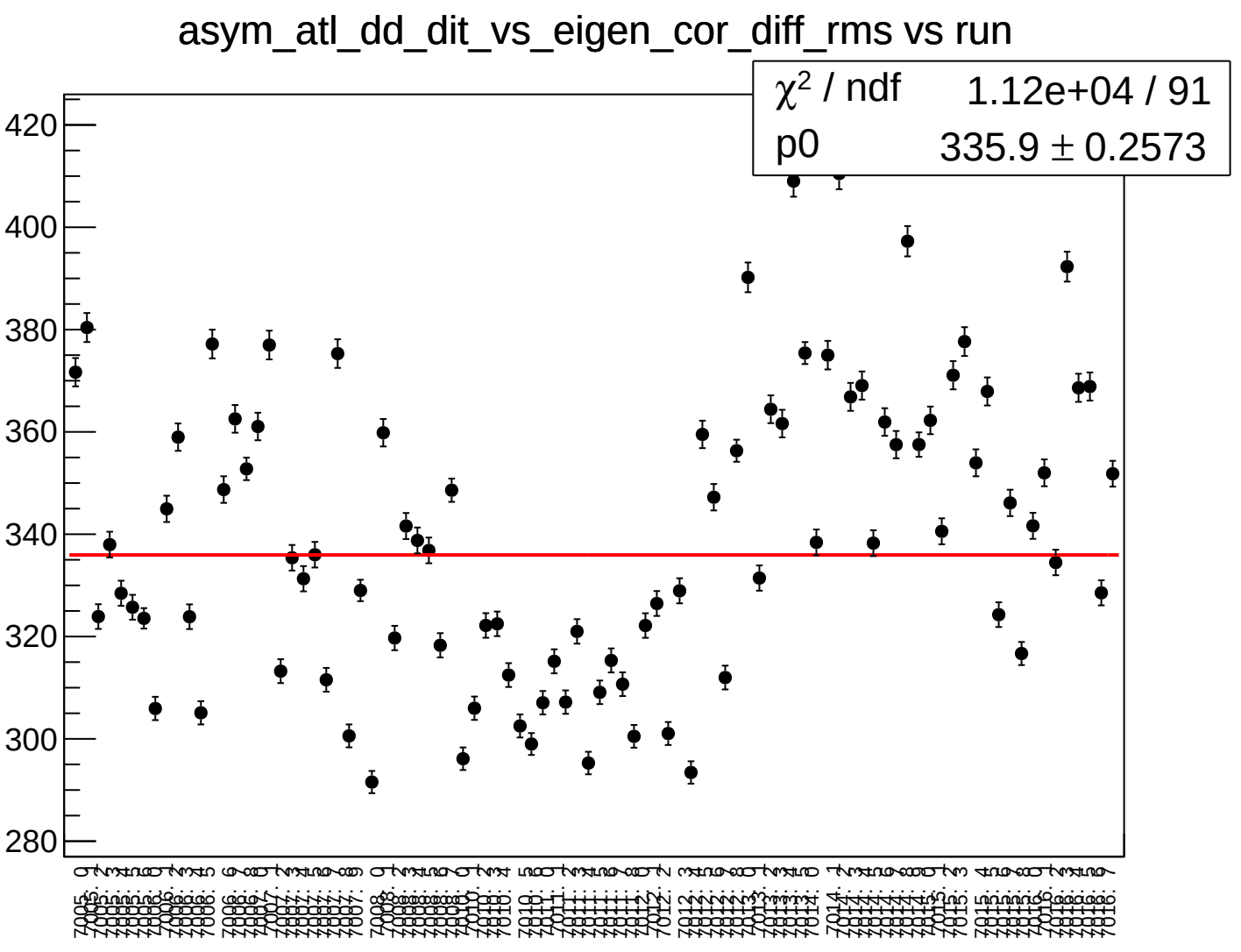

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.23 / 91
p0 0.5671± 0.3639
pull
Entries 92
Mean 784.2
Std Dev 0

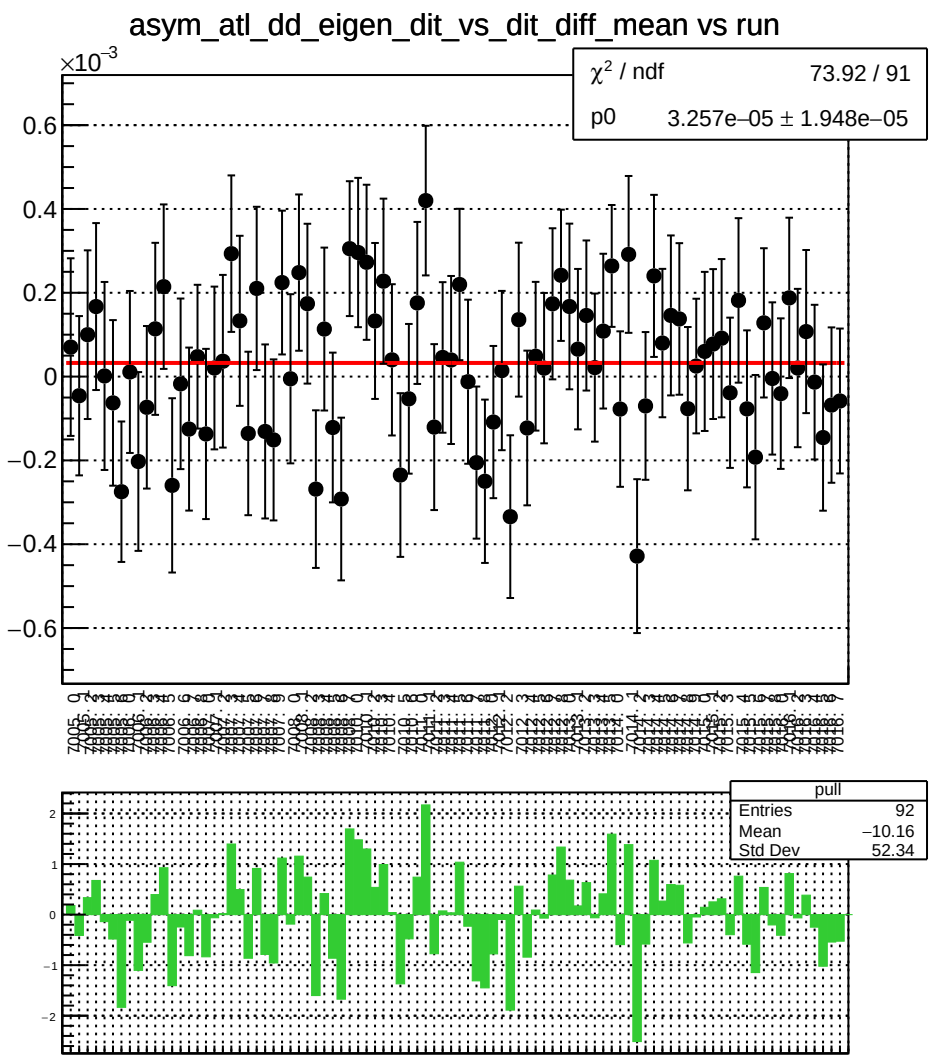

pull1D
Entries 92
Mean 0.00173
Std Dev 1.017

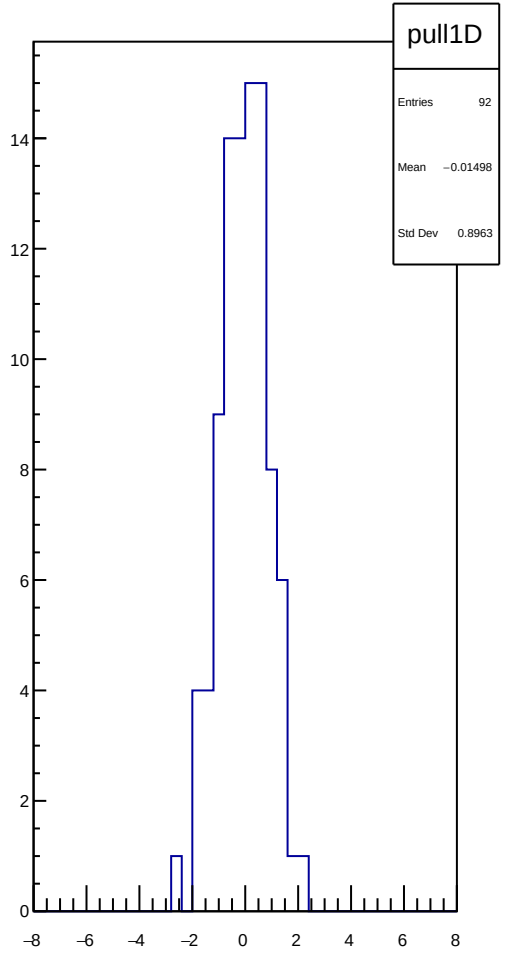

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.12e+04 / 91
p0 335.9 ± 0.2573
420
400
380
360
340
320
300
280

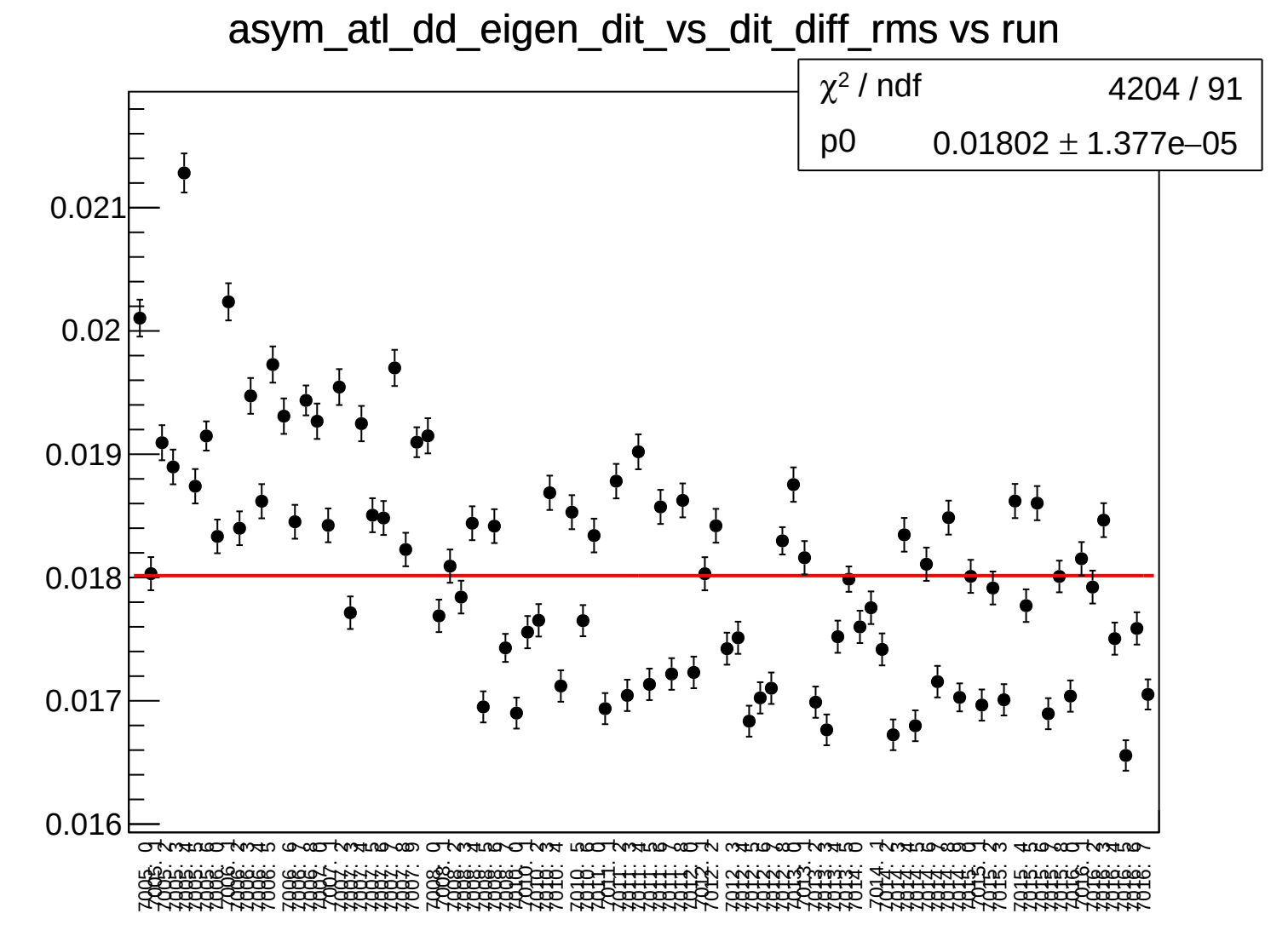

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.23 / 91
p0 0.5671± 0.3639
pull
Entries 92
Mean 784.2
Std Dev 0

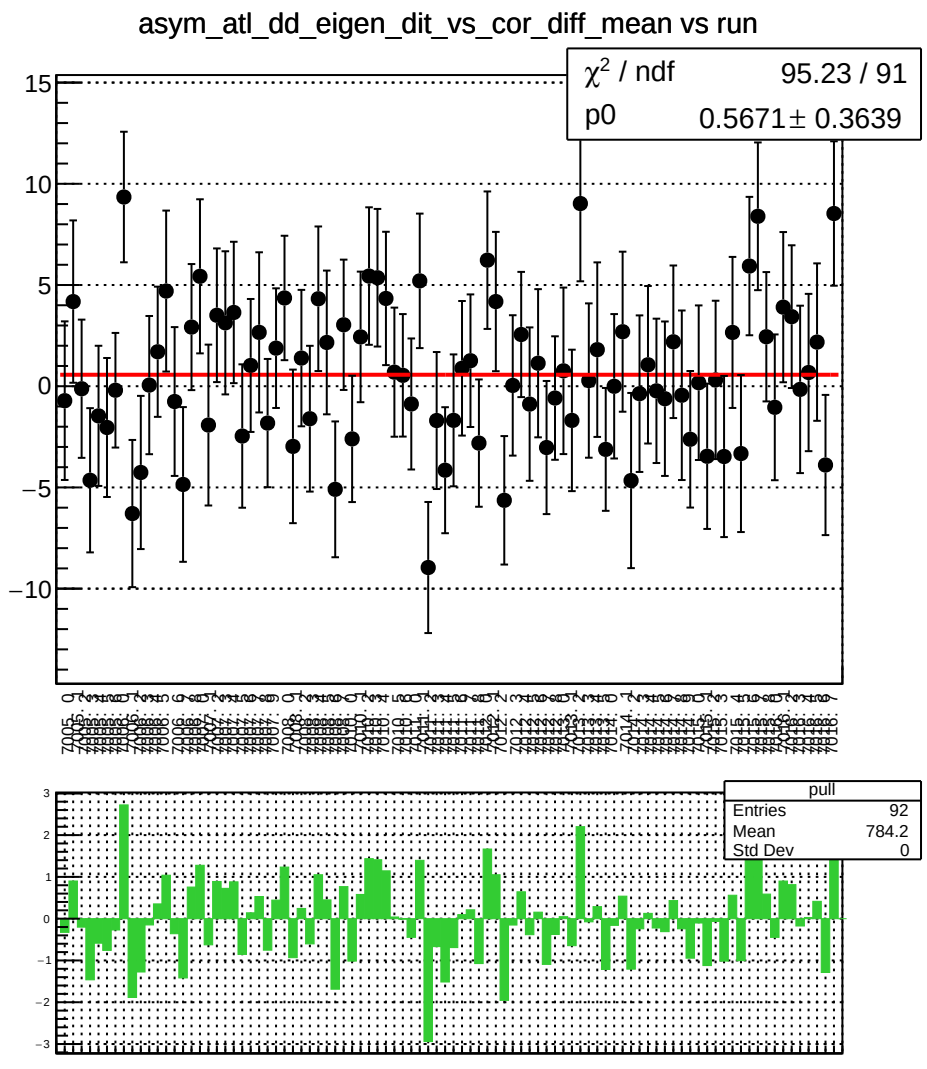

pull1D
Entries 92
Mean 0.00173
Std Dev 1.017

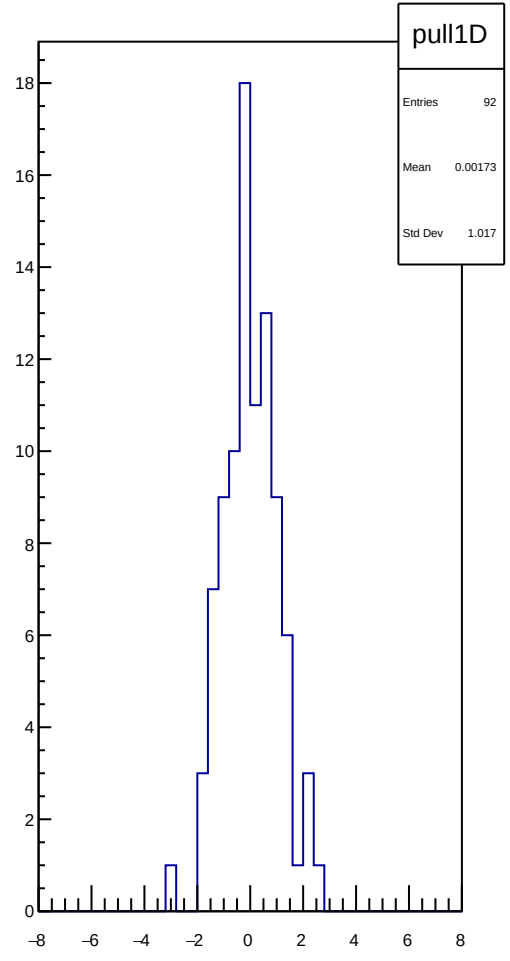

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.12e+04 / 91
p0 335.9 ± 0.2573
420
400
380
360
340
320
300
280

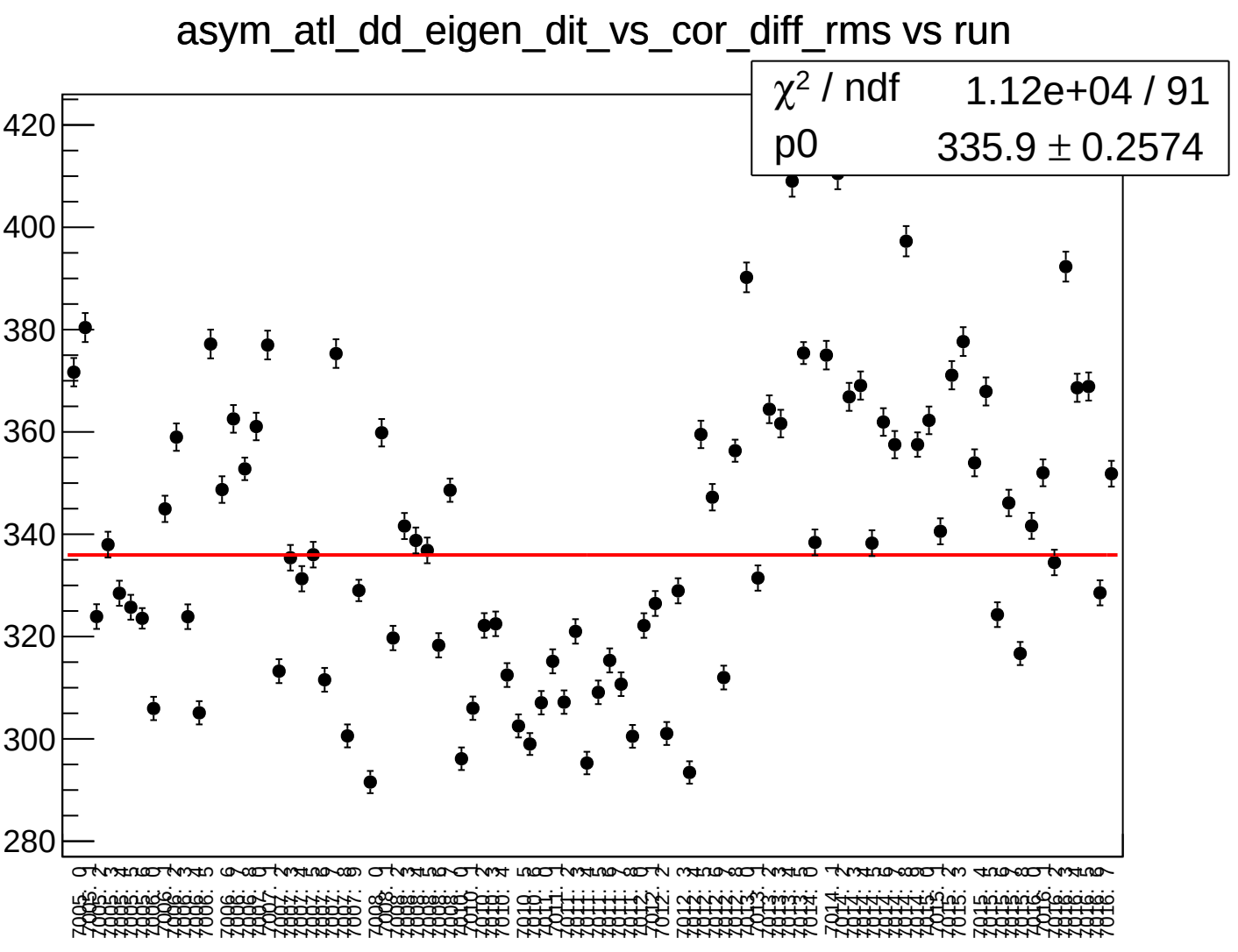

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.92 / 91
p0 3.257e−05 ± 1.948e−05
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean −10.16
Std Dev 52.34
2
1
0
−1
−2

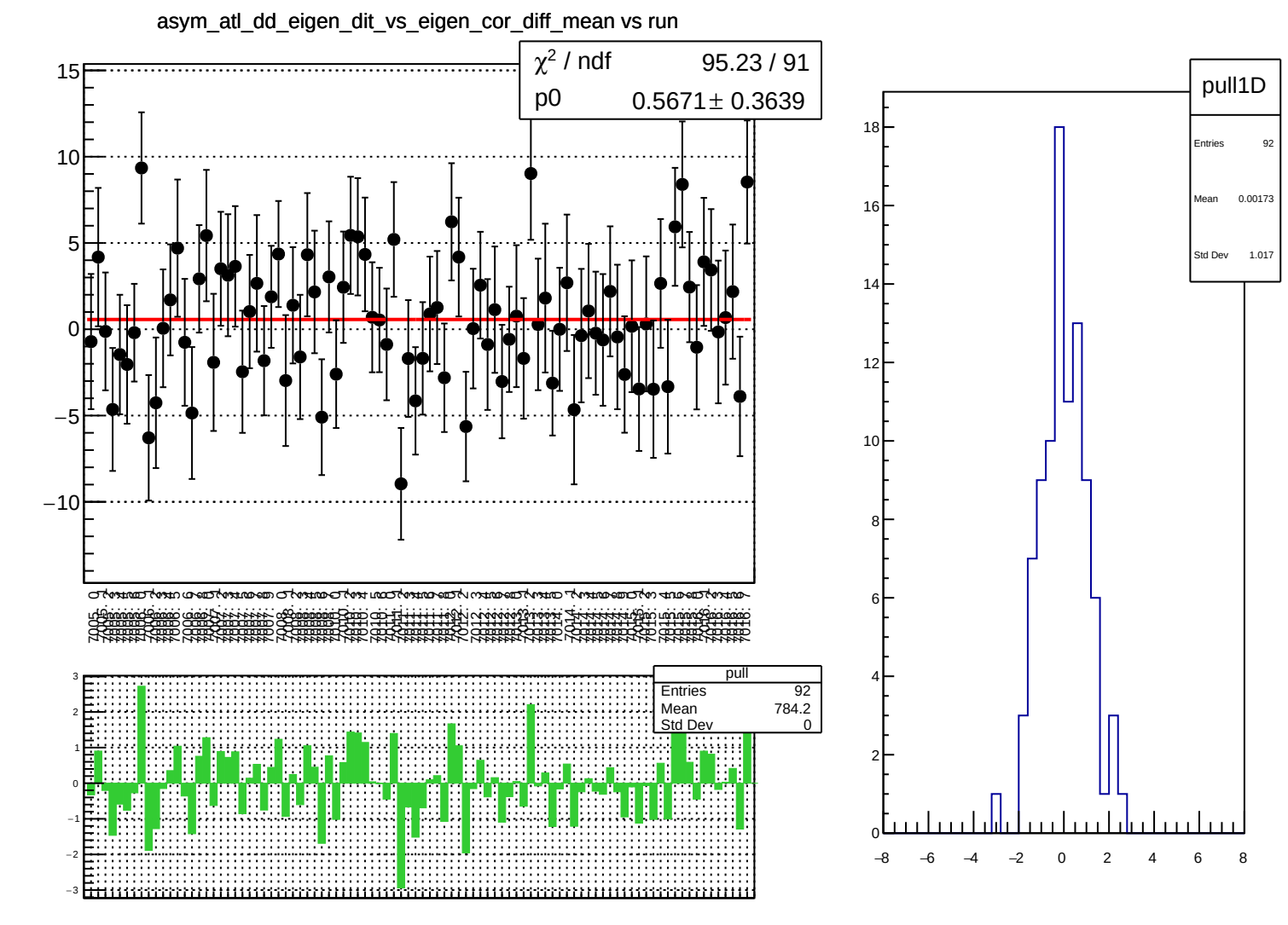

pull1D
Entries 92
Mean −0.01498
Std Dev 0.8963
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

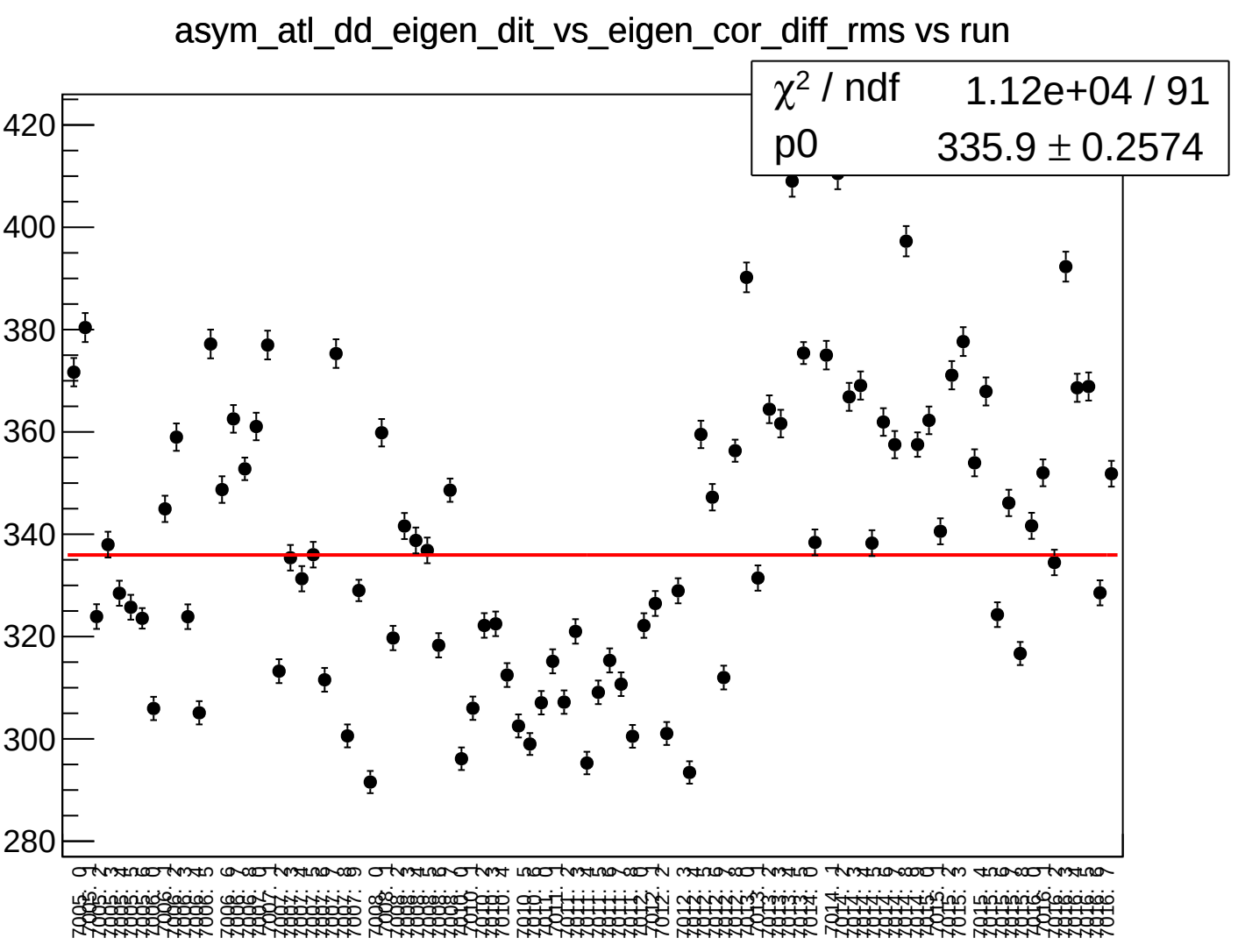

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4204 / 91
p0 0.01802 ± 1.377e–05
0.021
0.02
0.019
0.018
0.017
0.016

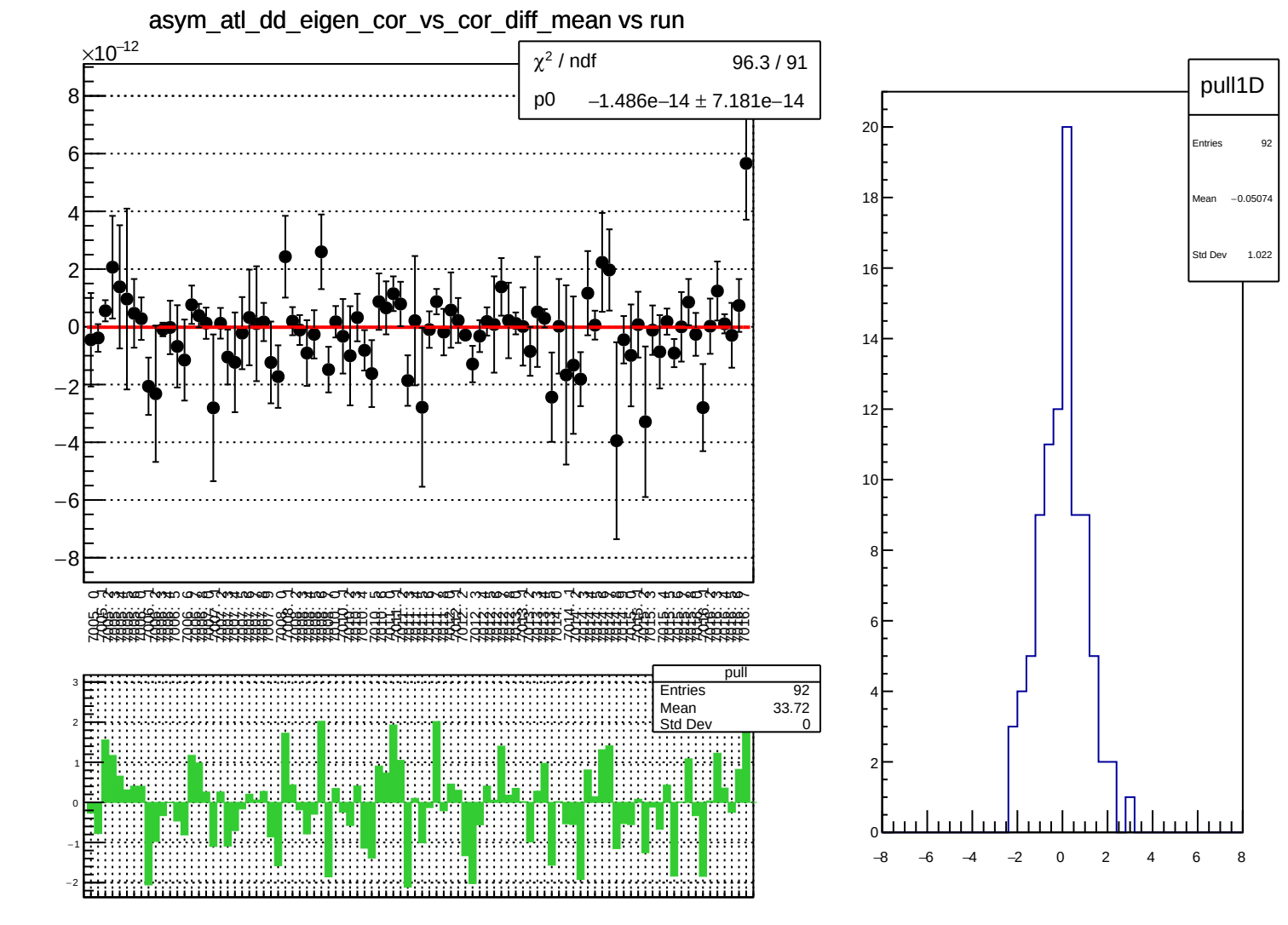

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.23 / 91
p0 0.5671± 0.3639
pull
Entries 92
Mean 784.2
Std Dev 0

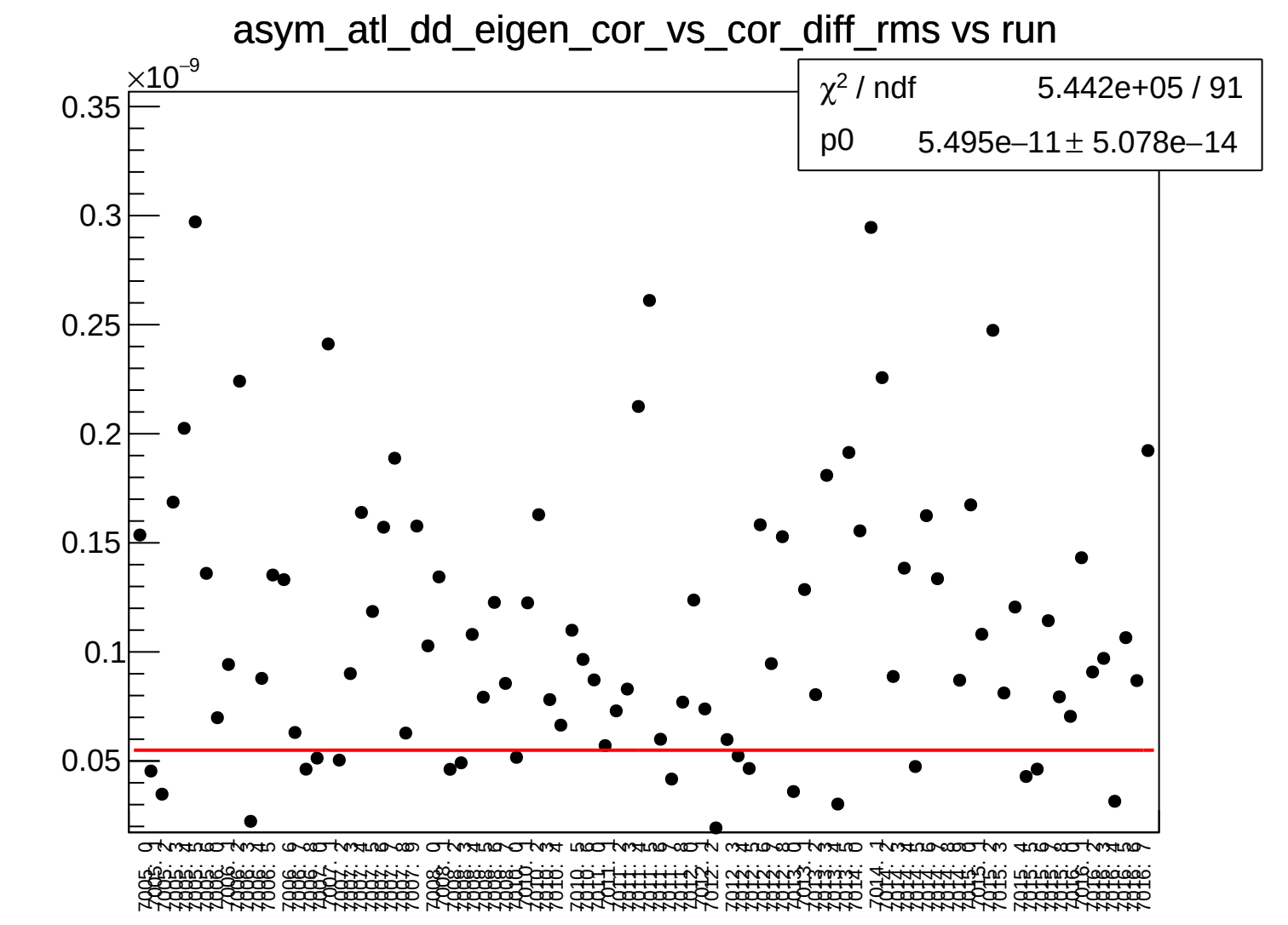

pull1D
Entries 92
Mean 0.00173
Std Dev 1.017

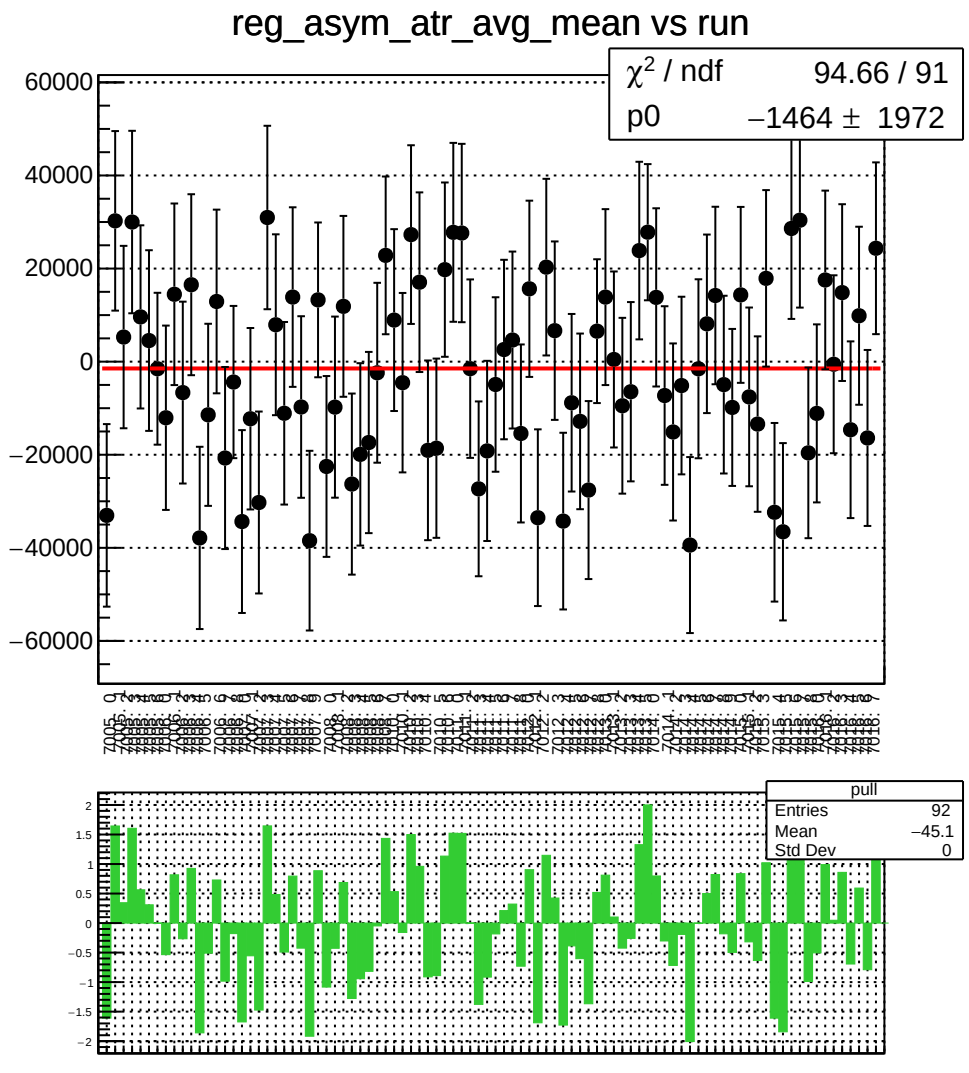

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.12e+04 / 91
p0 335.9 ± 0.2574
420
400
380
360
340
320
300
280

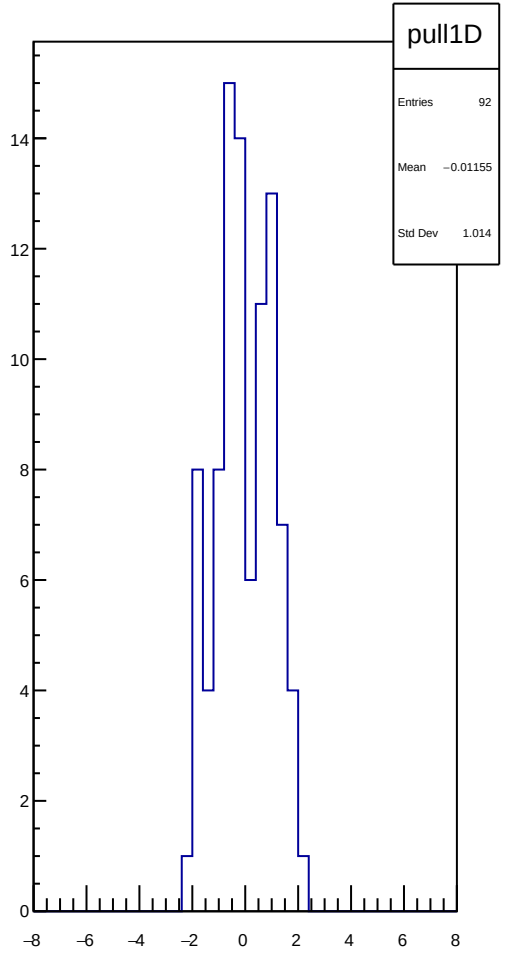

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.23 / 91
p0 0.5671± 0.3639
pull
Entries 92
Mean 784.2
Std Dev 0
pull1D
Entries 92
Mean 0.00173
Std Dev 1.017

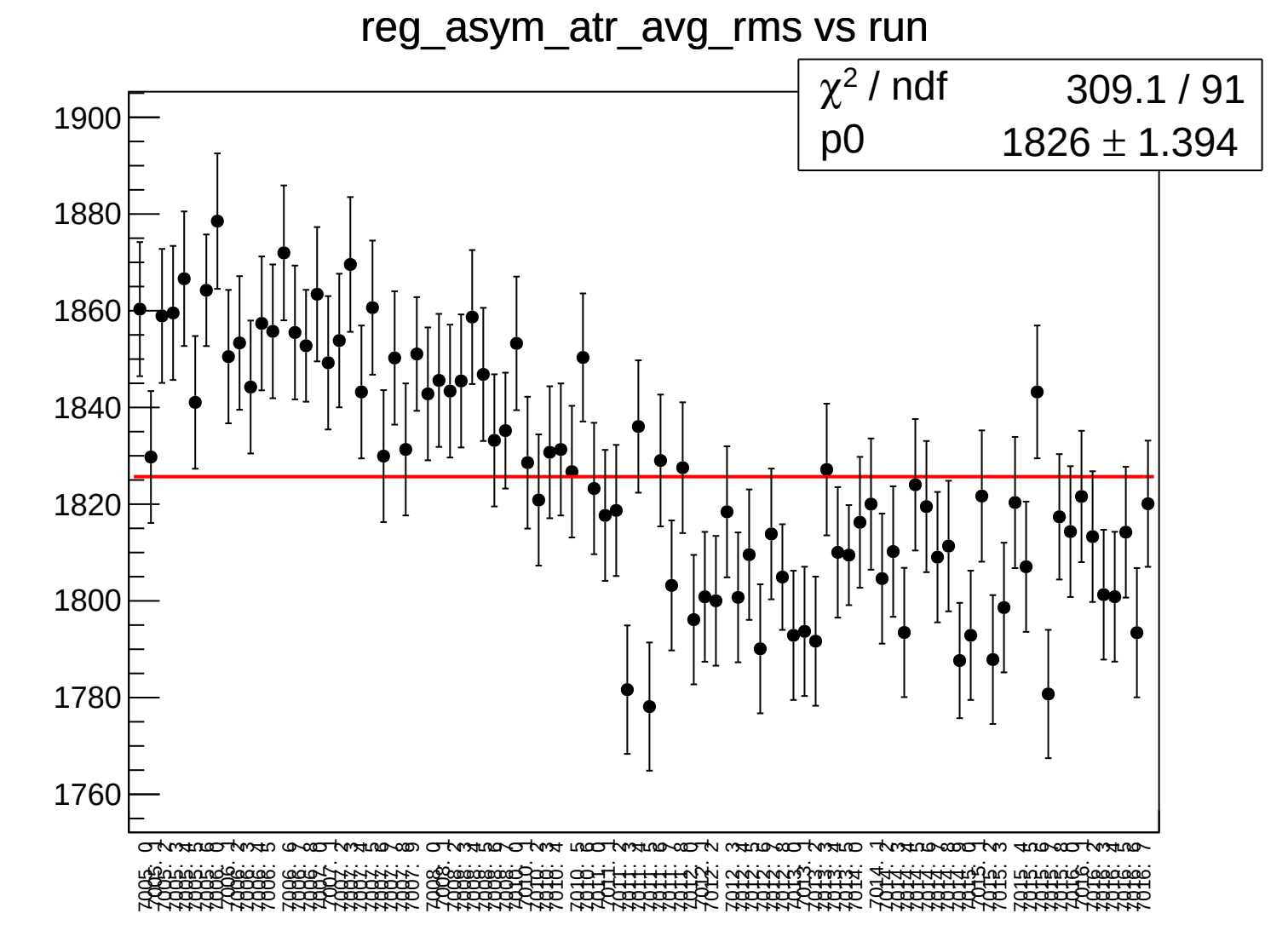

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.12e+04 / 91
p0 335.9 ± 0.2574
420
400
380
360
340
320
300
280

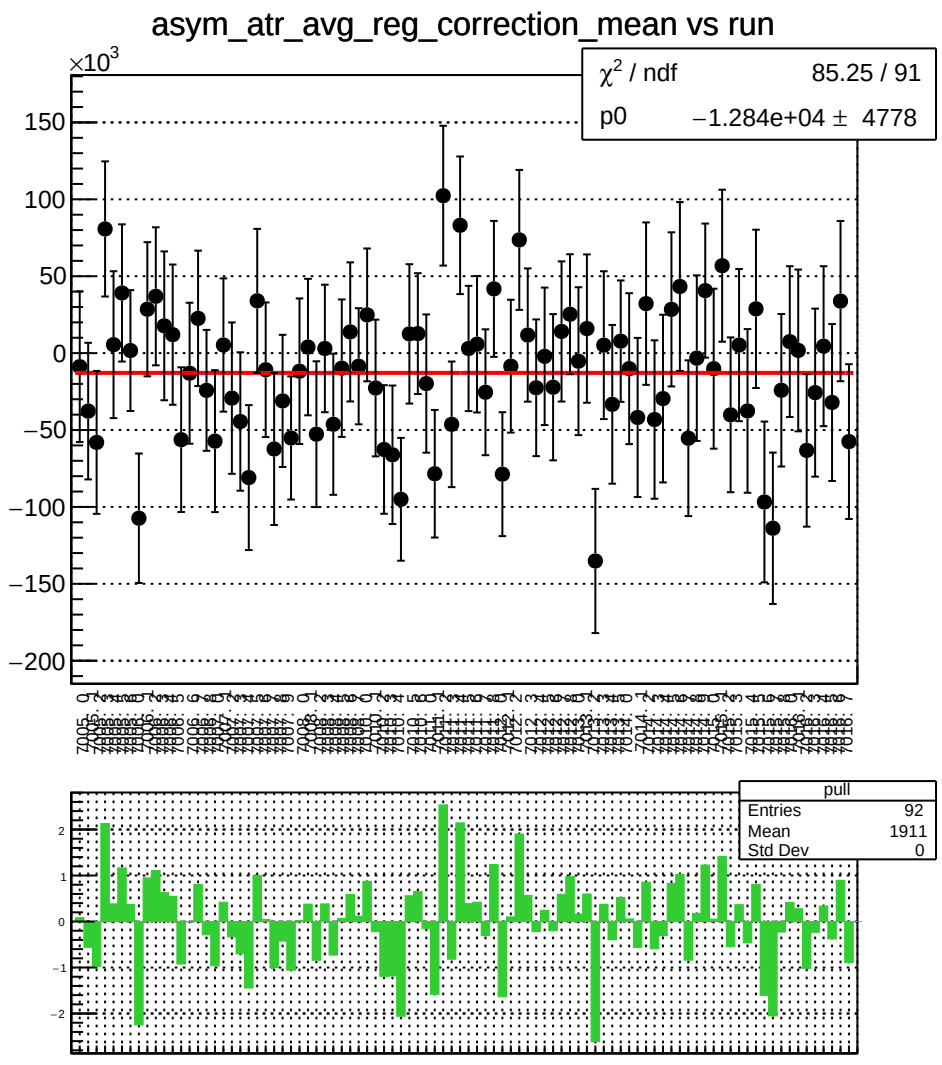

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.3 / 91
p0 −1.486e−14 ± 7.181e−14
pull
Entries 92
Mean 33.72
Std Dev 0
pull1D
Entries 92
Mean −0.05074
Std Dev 1.022

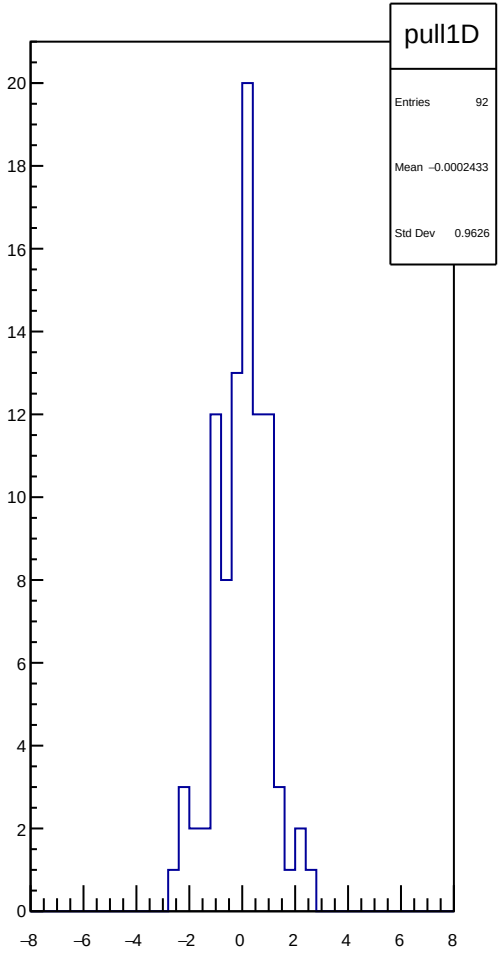

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.442e+05 / 91
p0 5.495e−11 ± 5.078e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

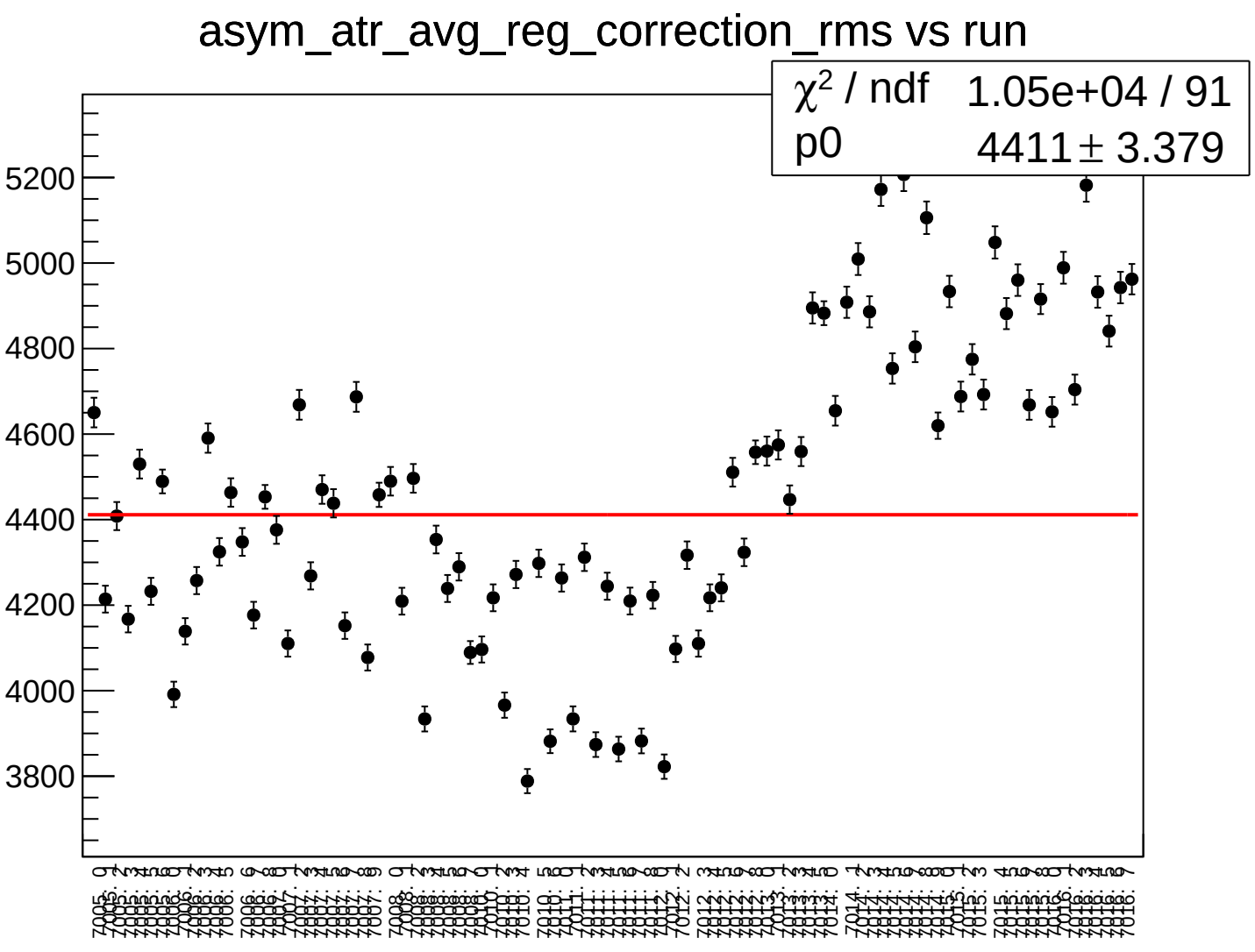

reg_asym_atr_avg_mean vs run
χ² / ndf 94.66 / 91
p0 −1464 ± 1972
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −45.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

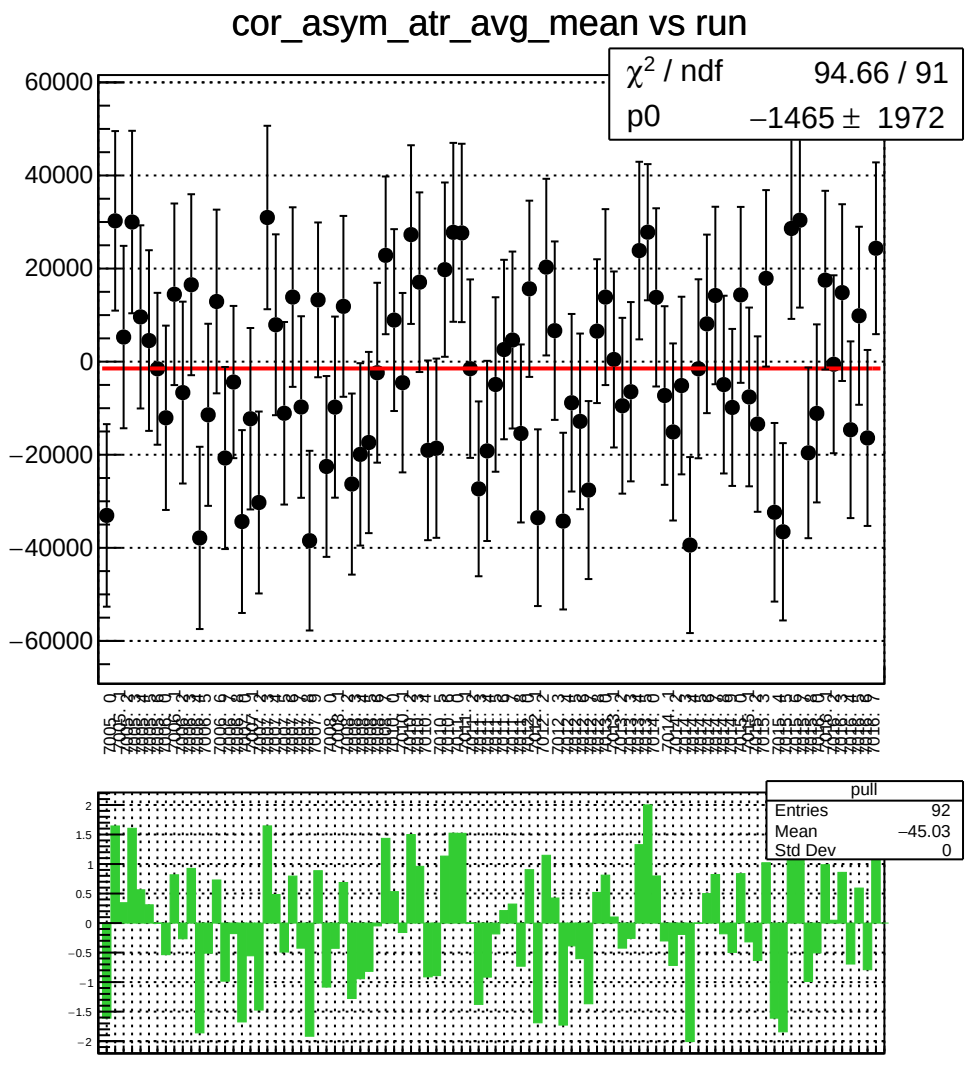

pull1D
Entries 92
Mean −0.01155
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

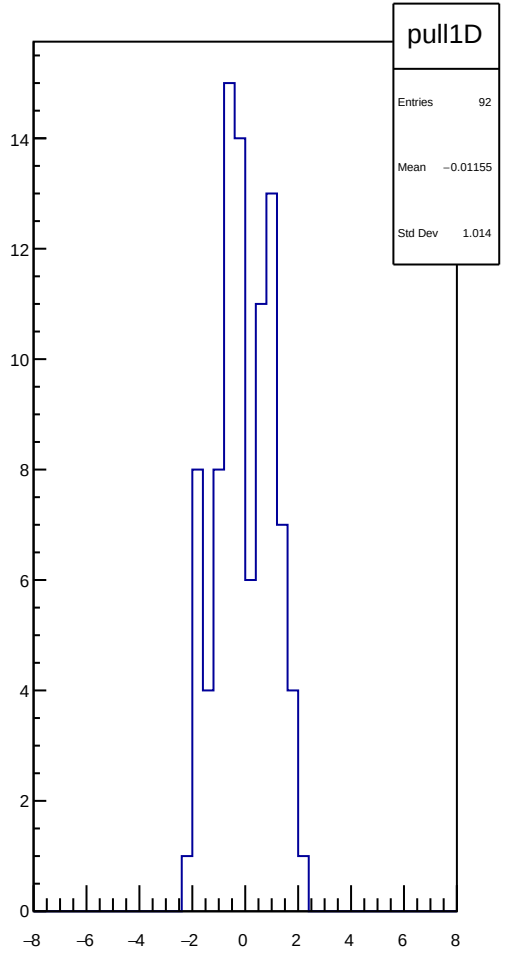

reg_asym_atr_avg_rms vs run
χ² / ndf 309.1 / 91
p0 1826 ± 1.394
1900
1880
1860
1840
1820
1800
1780
1760

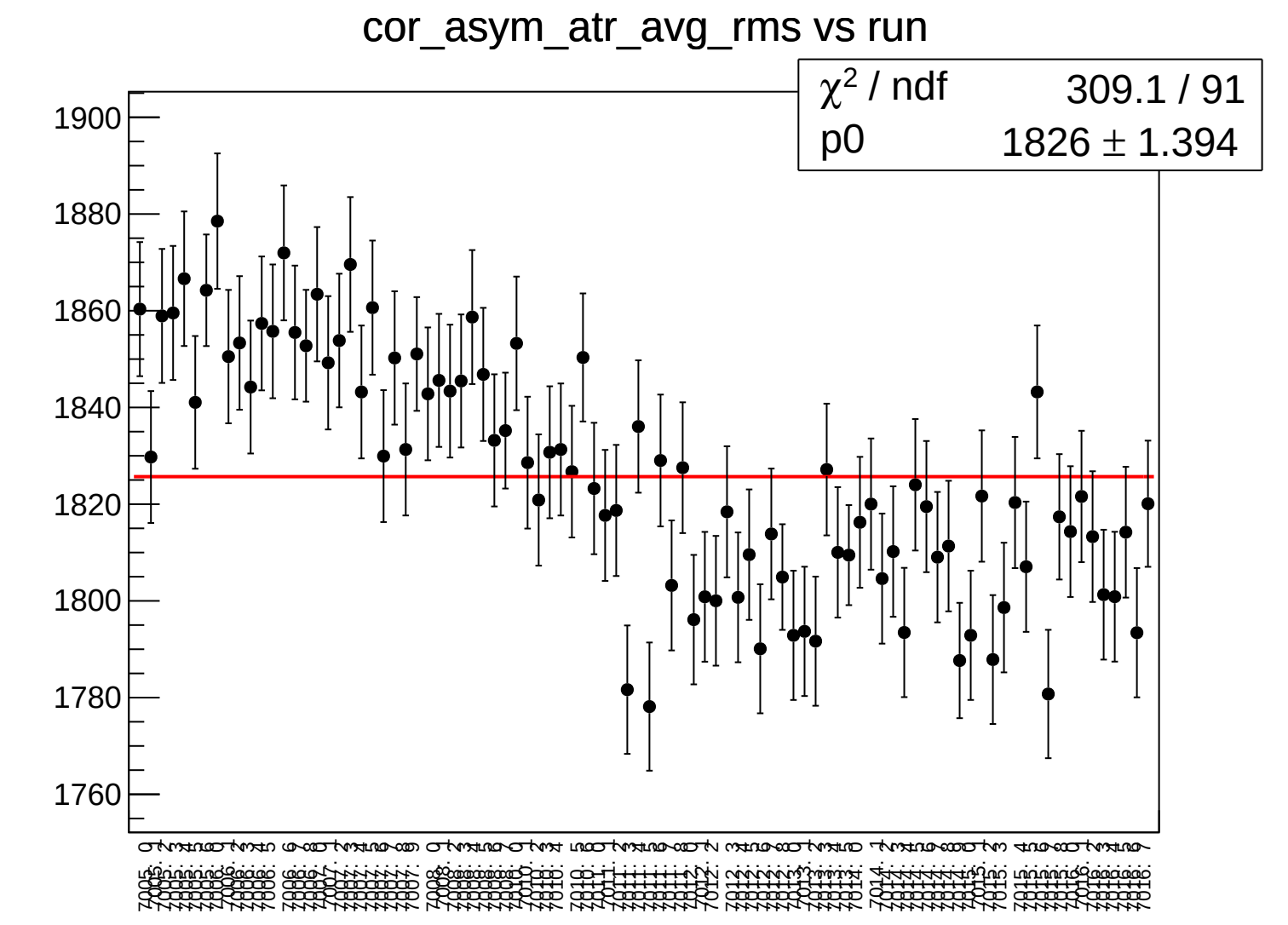

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.25 / 91
p0 −1.284e+04 ± 4778
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 1911
Std Dev 0
2
1
0
−1
−2

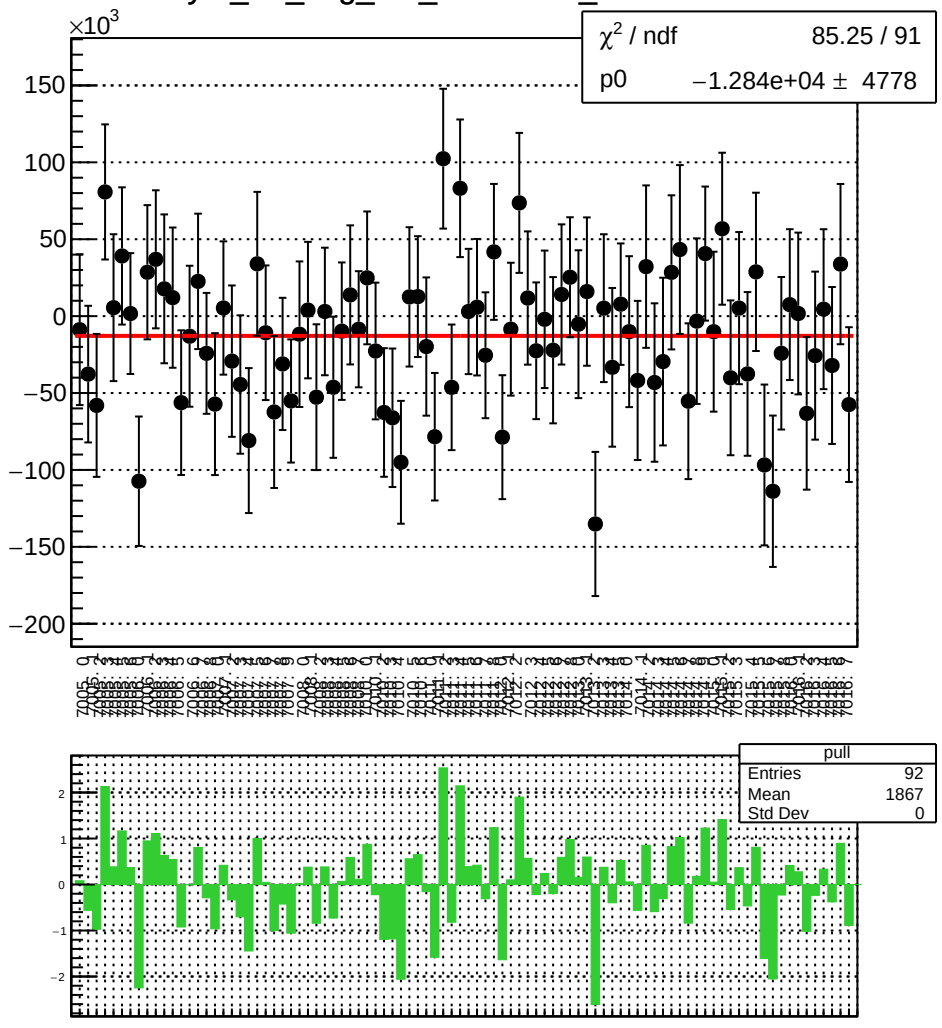

pull1D
Entries 92
Mean −0.0002433
Std Dev 0.9626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

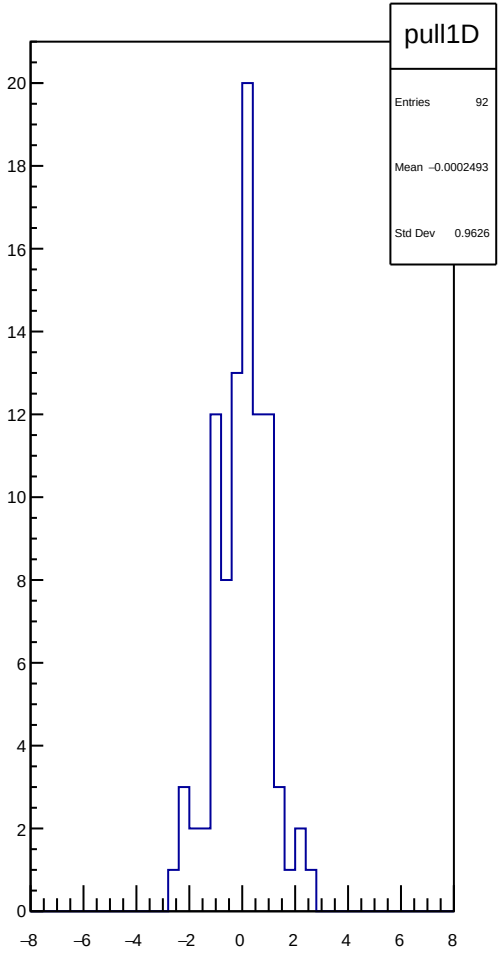

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 1.05e+04 / 91
p0 4411 ± 3.379
5200
5000
4800
4600
4400
4200
4000
3800

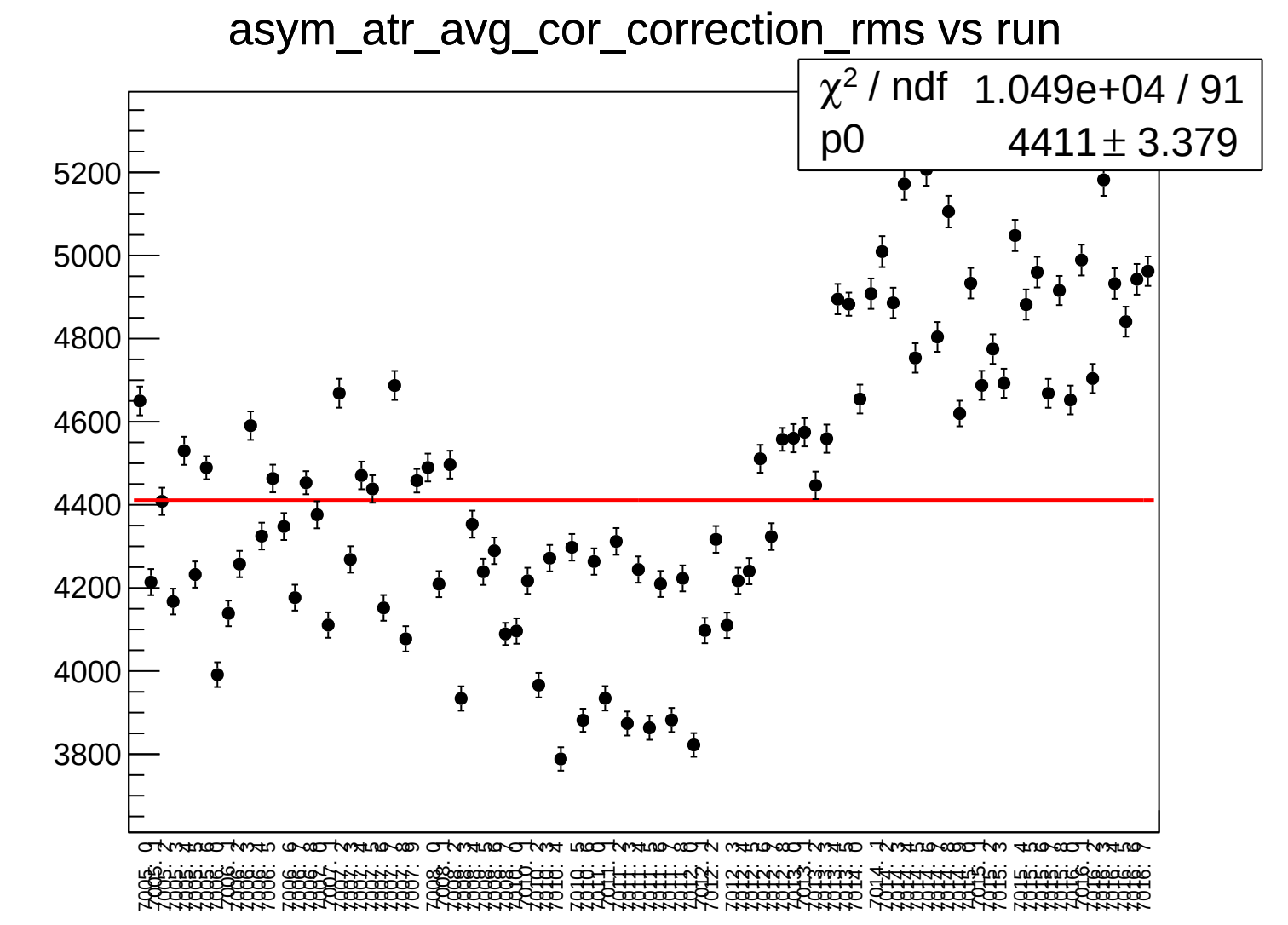

cor_asym_atr_avg_mean vs run
χ² / ndf 94.66 / 91
p0 −1465 ± 1972
pull
Entries 92
Mean −45.03
Std Dev 0

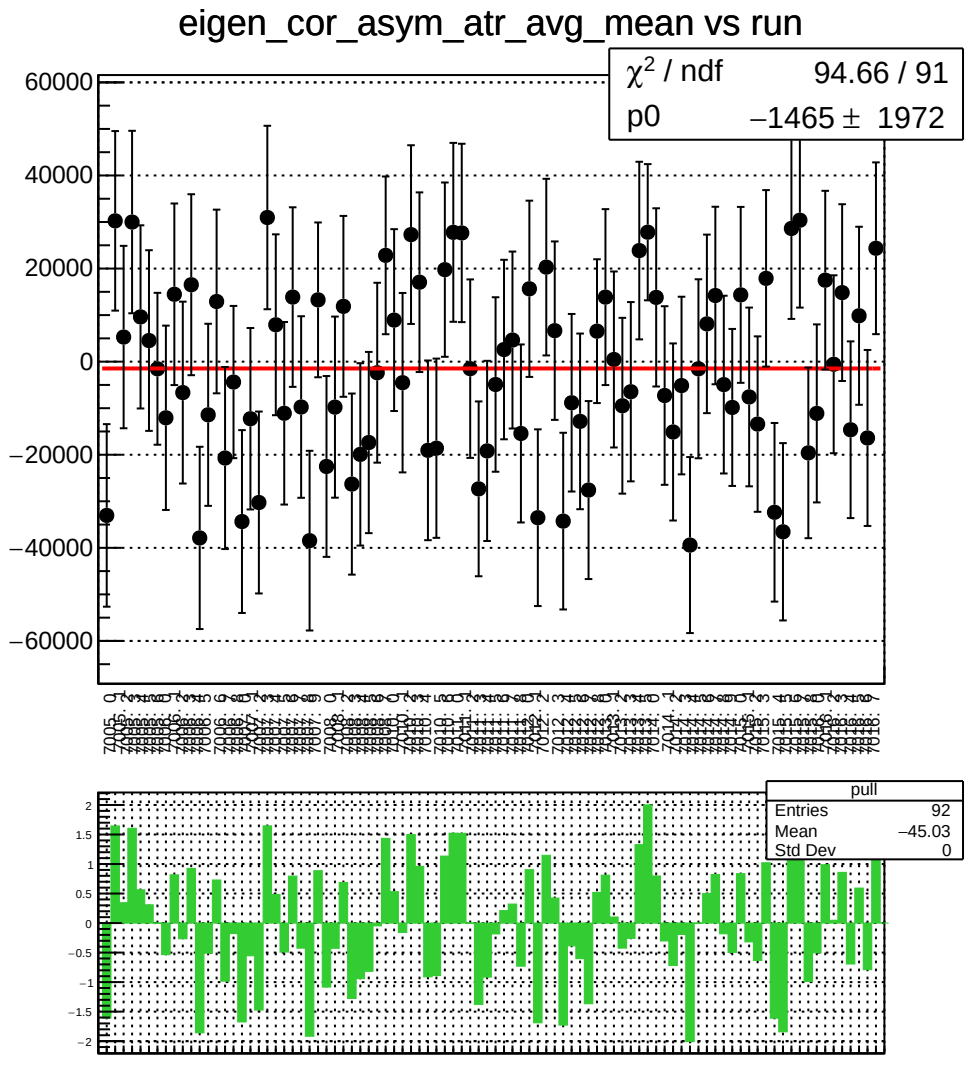

pull1D
Entries 92
Mean −0.01155
Std Dev 1.014

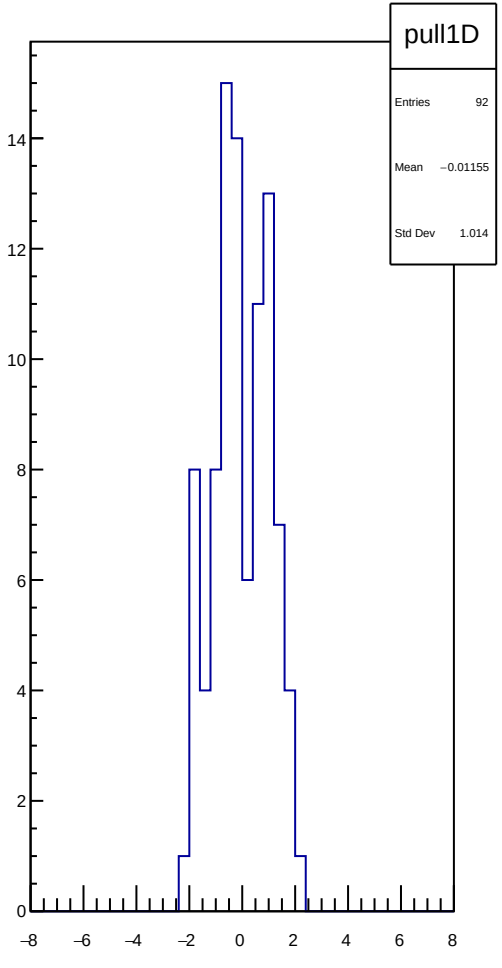

cor_asym_atr_avg_rms vs run
χ² / ndf 309.1 / 91
p0 1826 ± 1.394
1900
1880
1860
1840
1820
1800
1780
1760

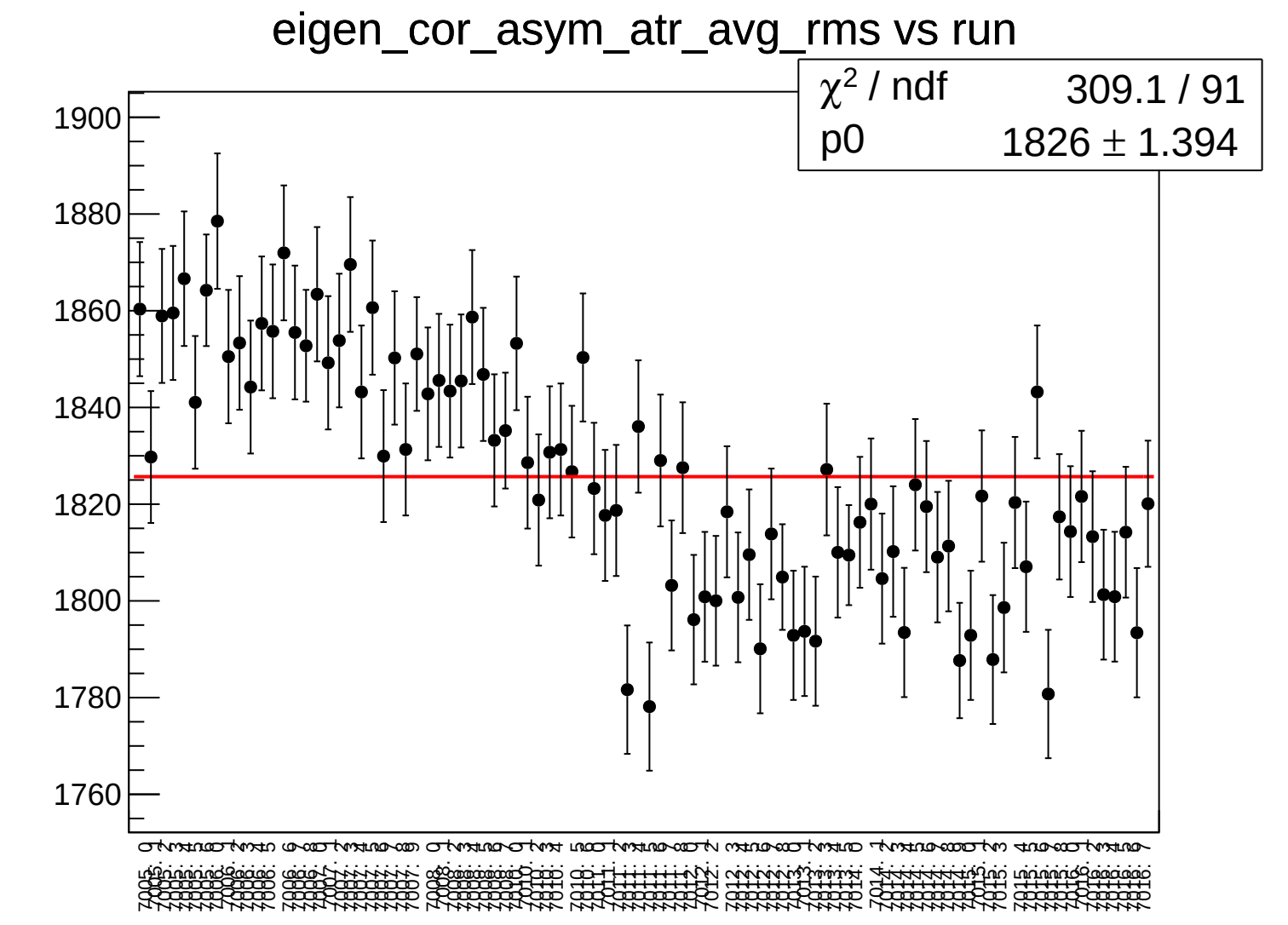

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.25 / 91
p0 −1.284e+04 ± 4778
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 1867
Std Dev 0
2
1
0
−1
−2

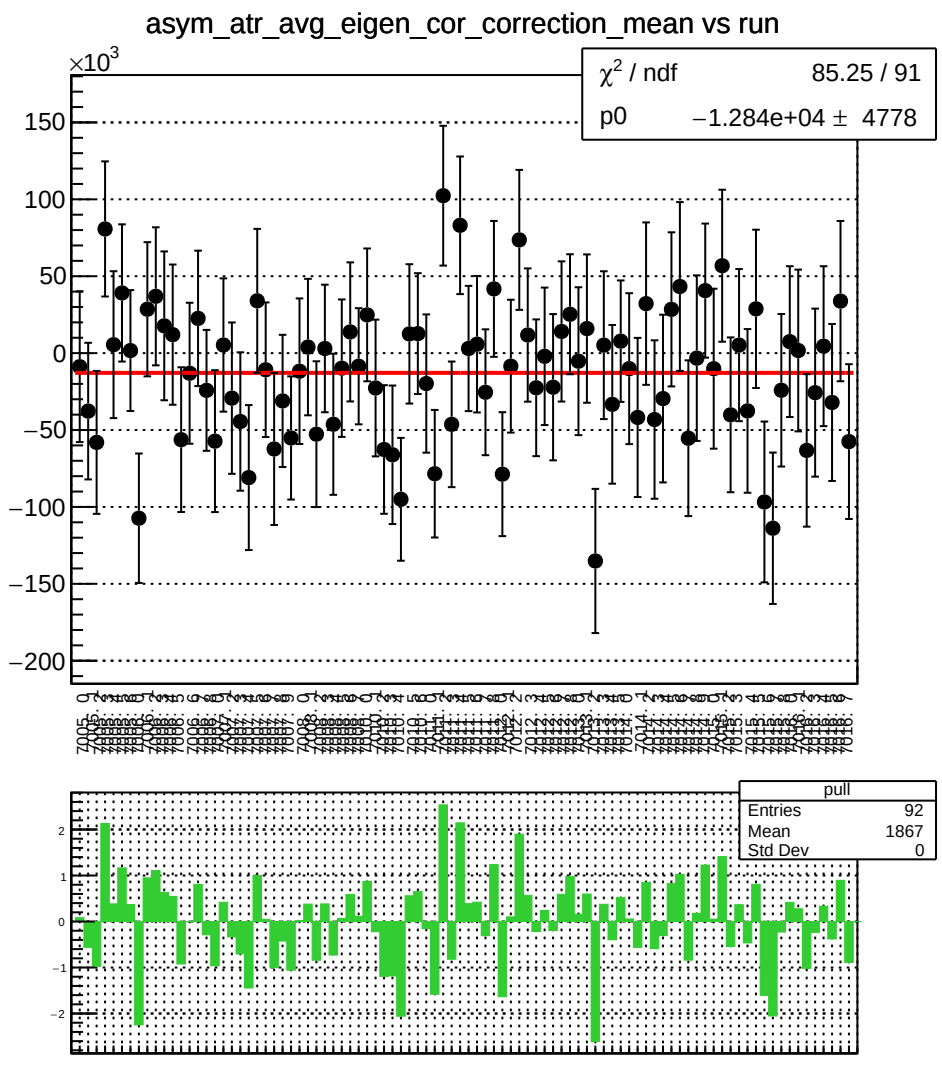

pull1D
Entries 92
Mean −0.0002493
Std Dev 0.9626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

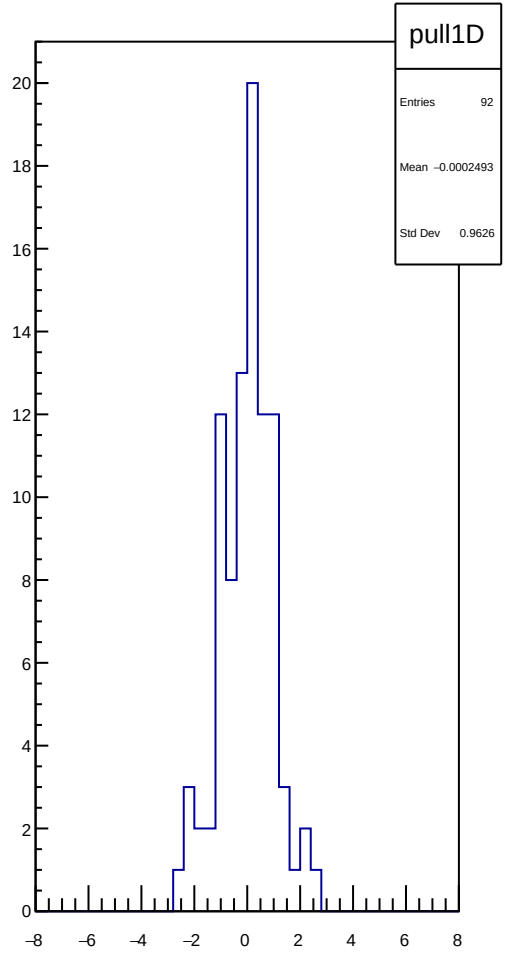

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 91
p0 4411 ± 3.379
5200
5000
4800
4600
4400
4200
4000
3800

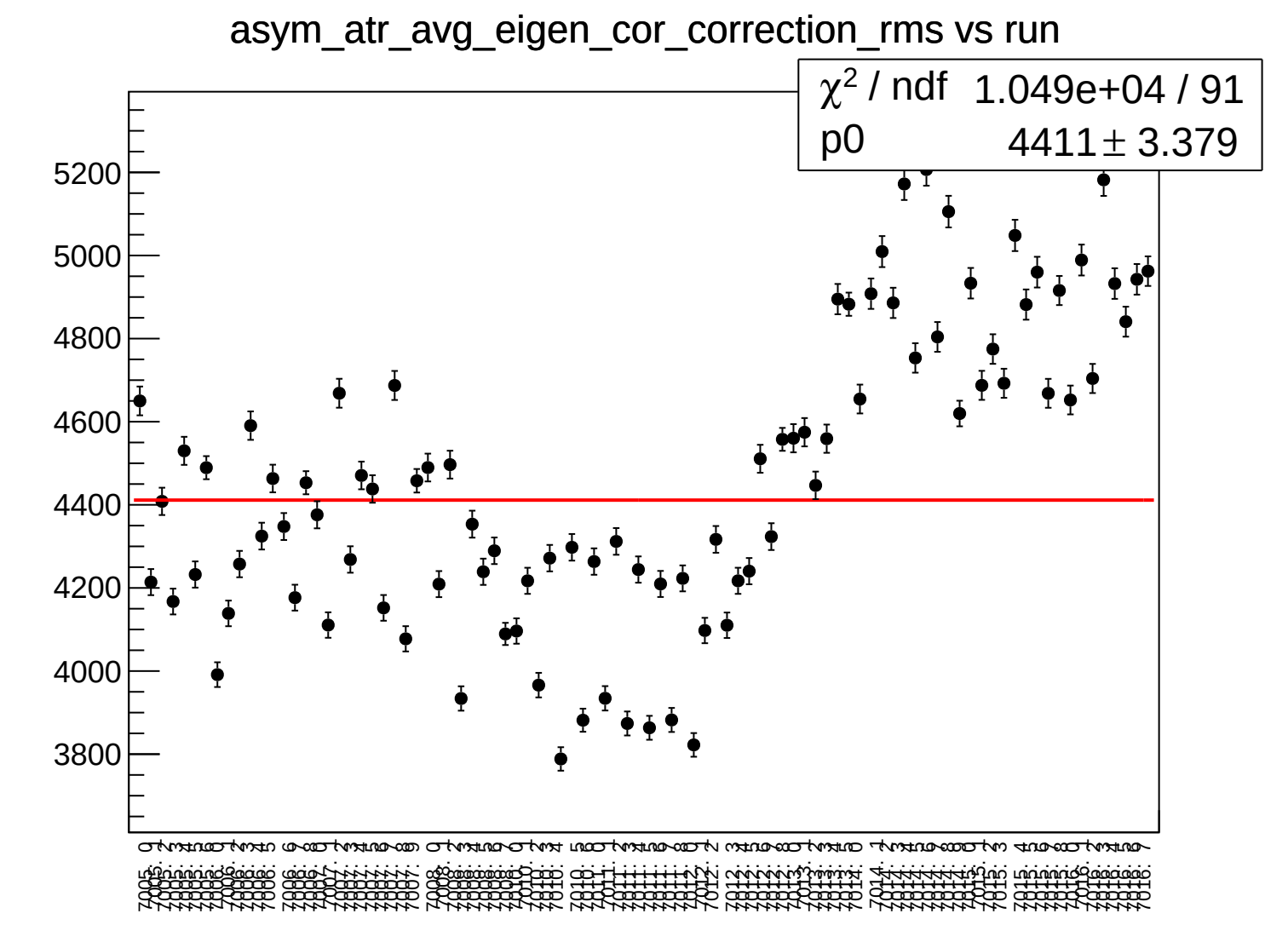

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 94.66 / 91
p0 −1465 ± 1972
pull
Entries 92
Mean −45.03
Std Dev 0

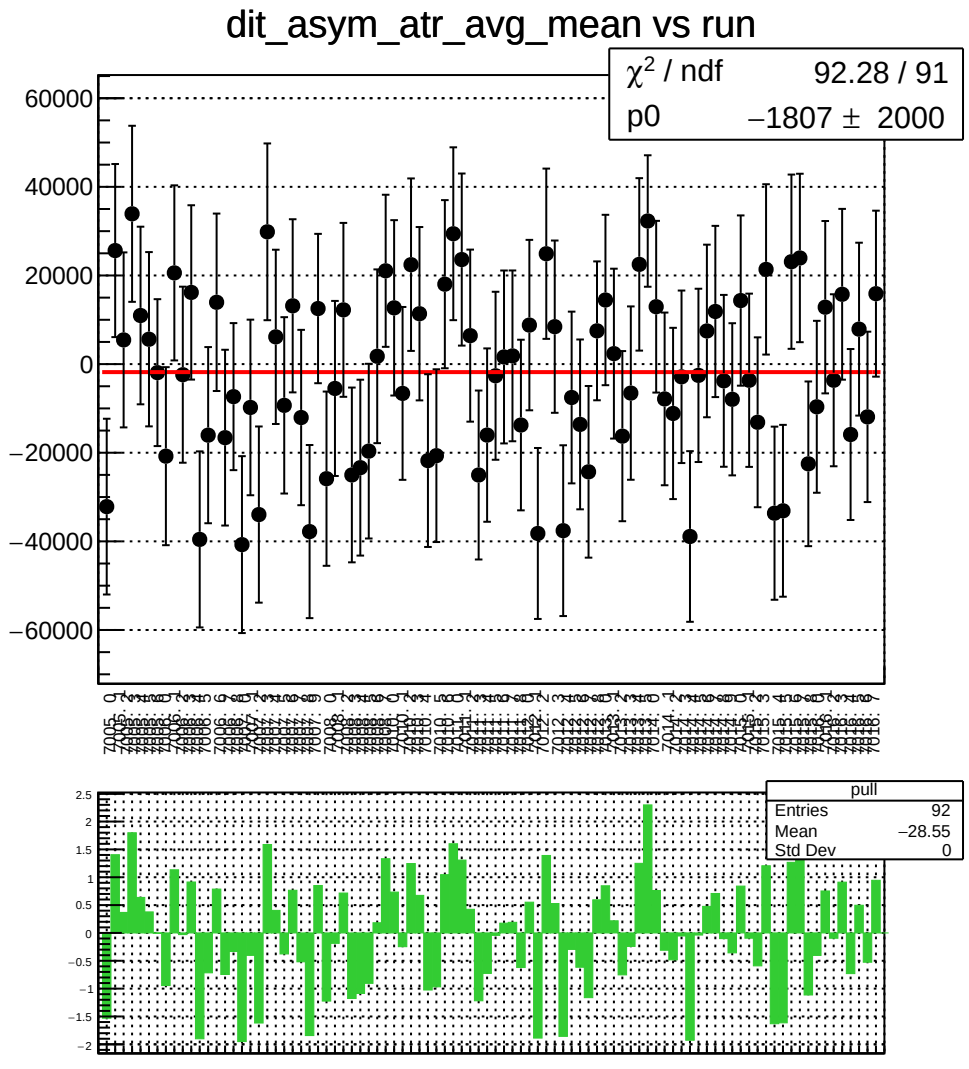

pull1D
Entries 92
Mean −0.01155
Std Dev 1.014

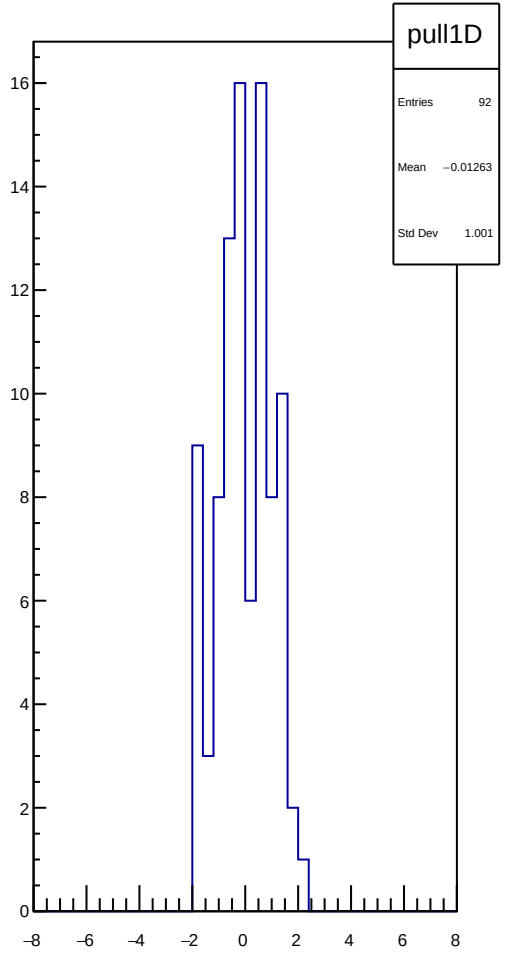

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 309.1 / 91
p0 1826 ± 1.394
1900
1880
1860
1840
1820
1800
1780
1760

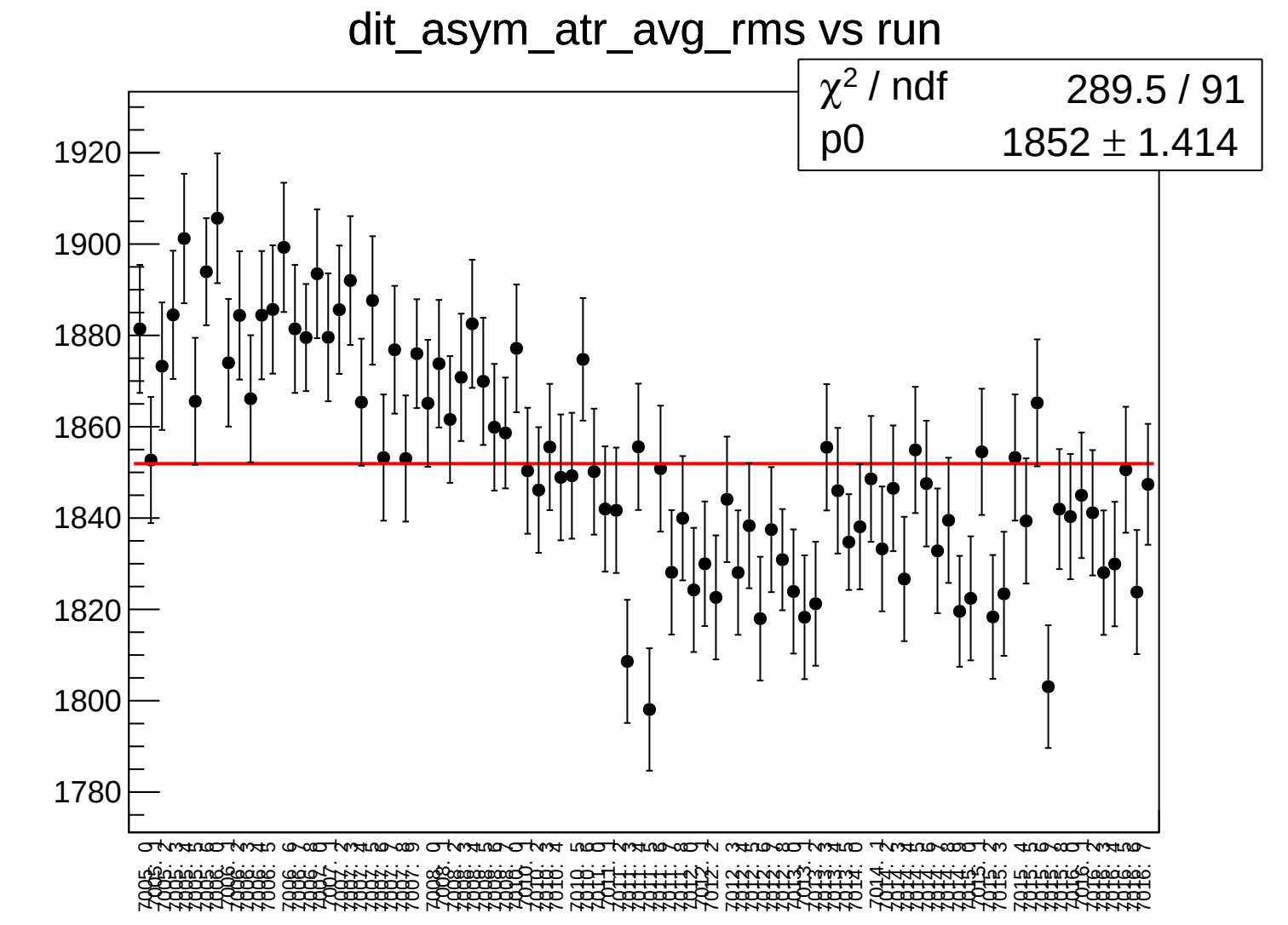

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.25 / 91
p0 −1.284e+04 ± 4778
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 1867
Std Dev 0
2
1
0
−1
−2

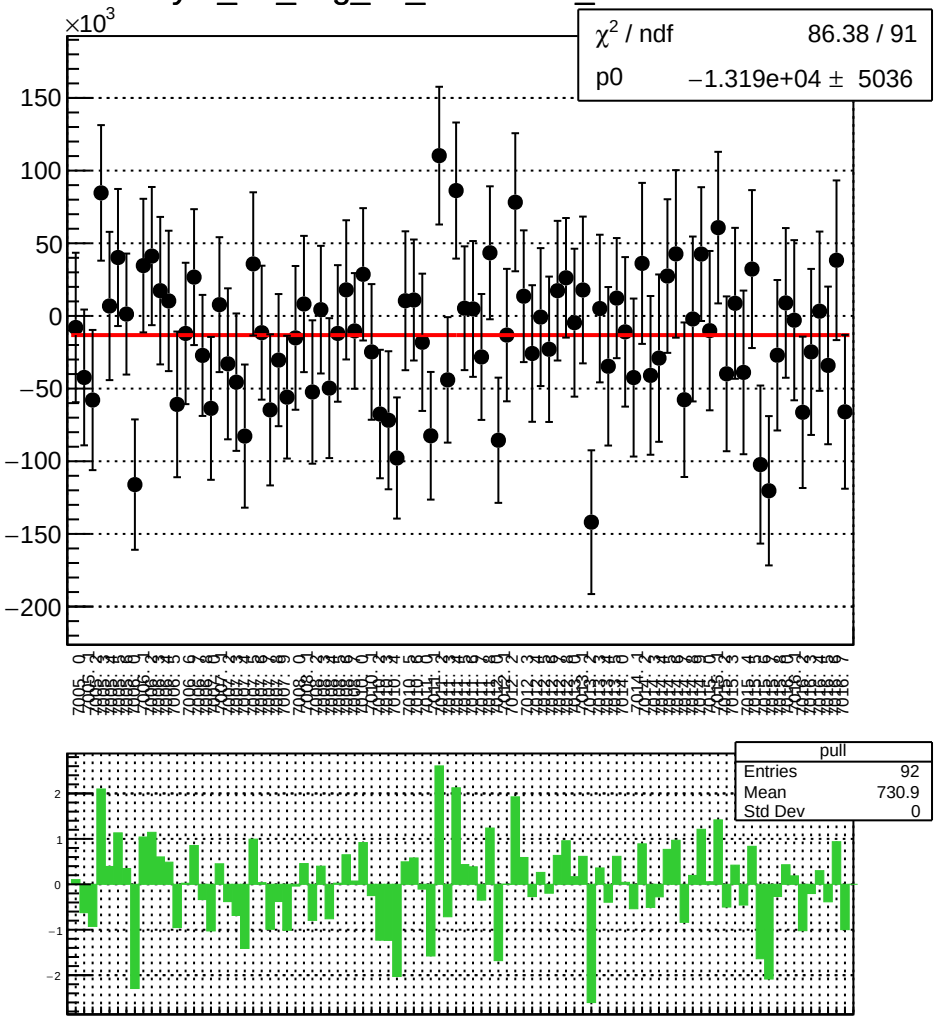

pull1D
Entries 92
Mean −0.0002493
Std Dev 0.9626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

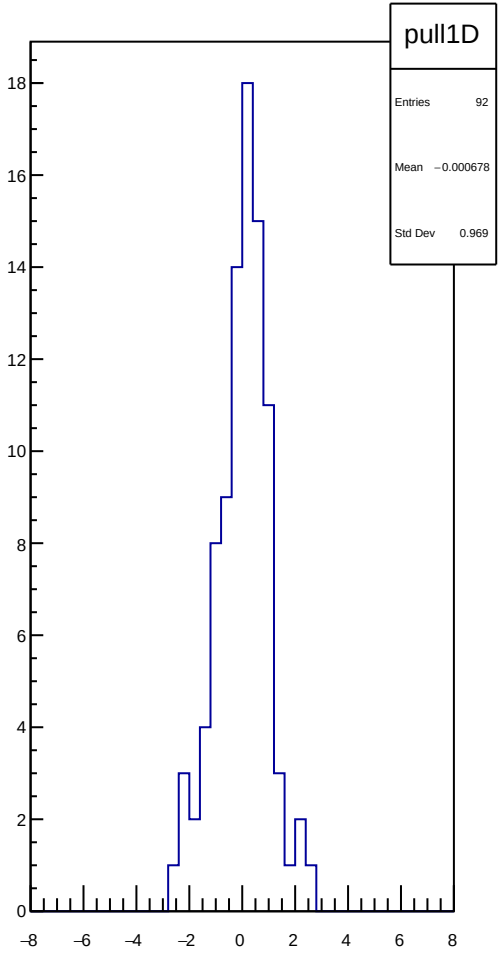

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.049e+04 / 91
p0 4411 ± 3.379
5200
5000
4800
4600
4400
4200
4000
3800

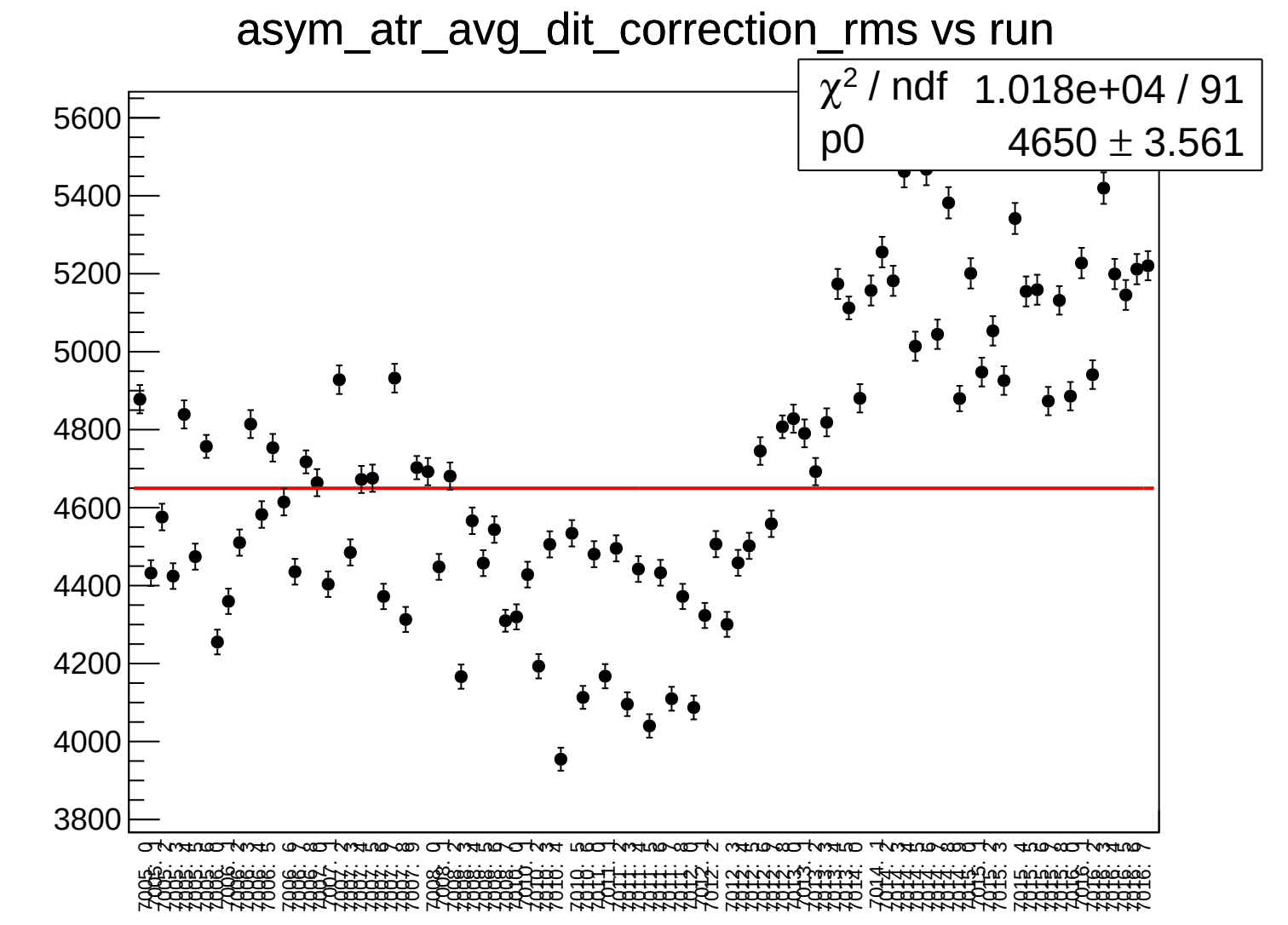

dit_asym_atr_avg_mean vs run
χ² / ndf 92.28 / 91
p0 −1807 ± 2000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −28.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

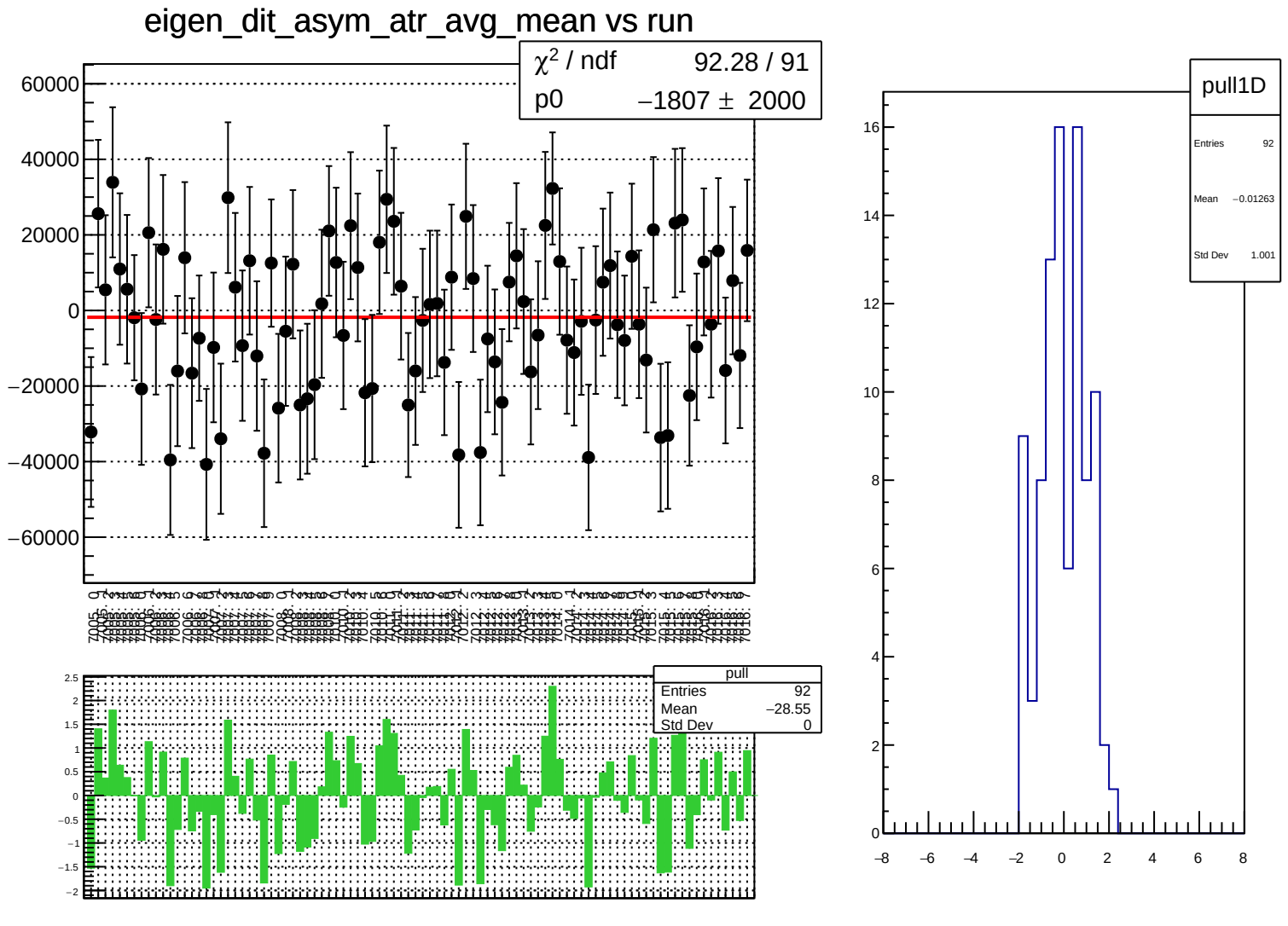

pull1D
Entries 92
Mean −0.01263
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

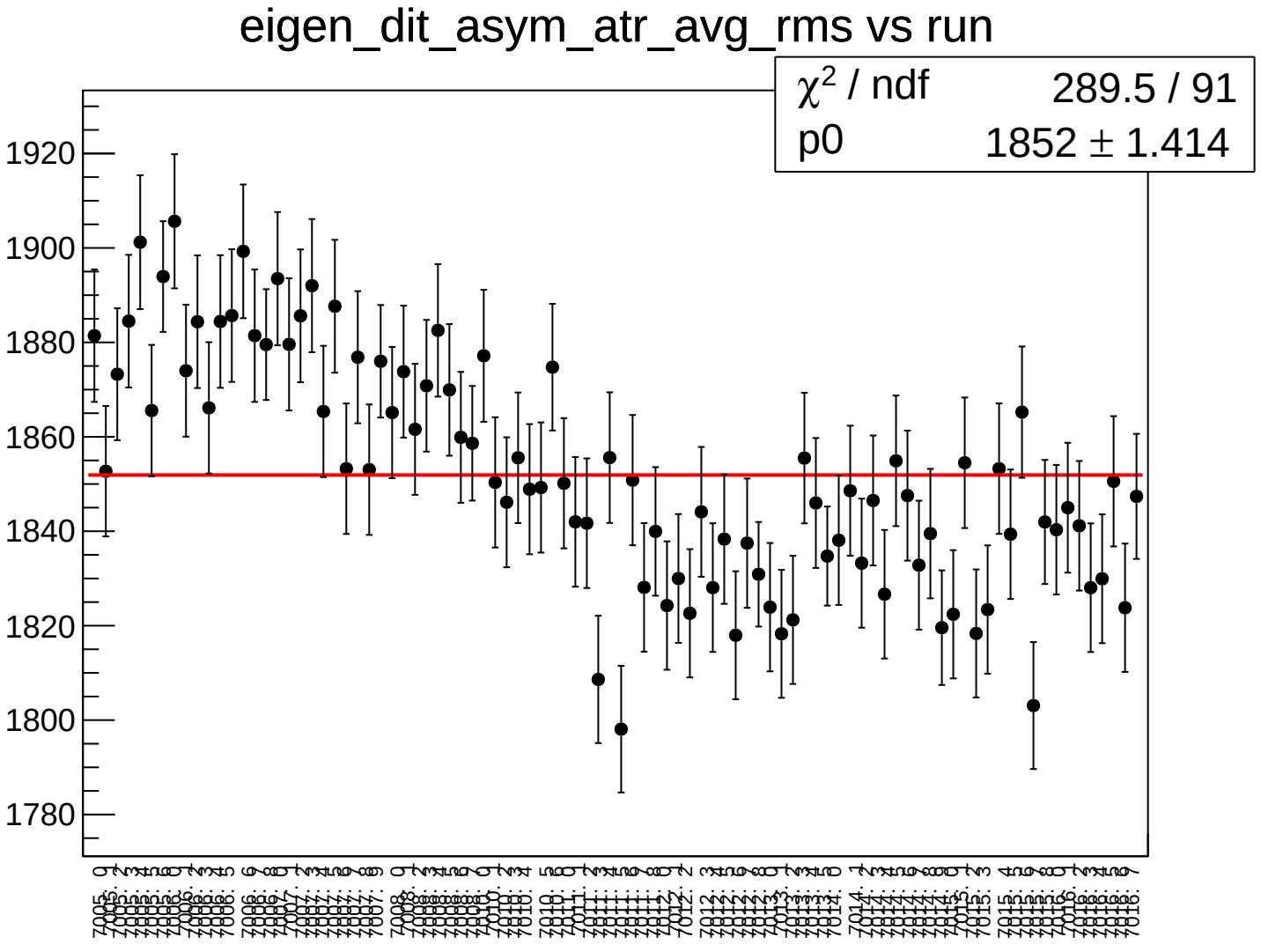

dit_asym_atr_avg_rms vs run
χ² / ndf 289.5 / 91
p0 1852 ± 1.414
1920
1900
1880
1860
1840
1820
1800
1780

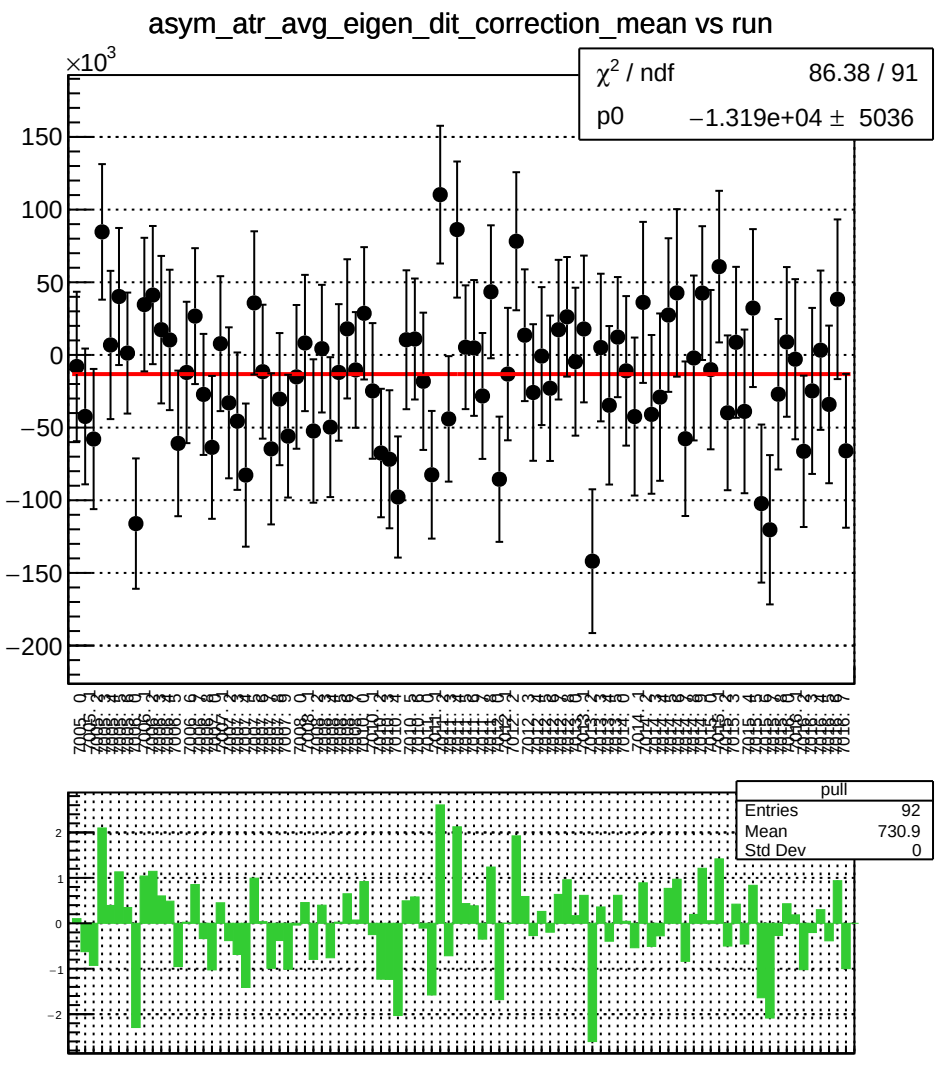

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.38 / 91
p0 −1.319e+04 ± 5036
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 730.9
Std Dev 0
2
1
0
−1
−2

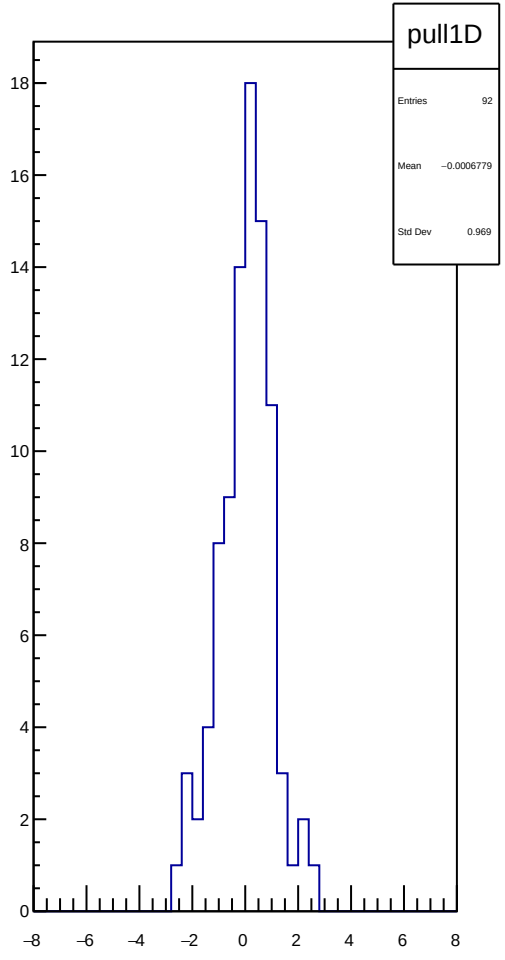

pull1D
Entries 92
Mean −0.000678
Std Dev 0.969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

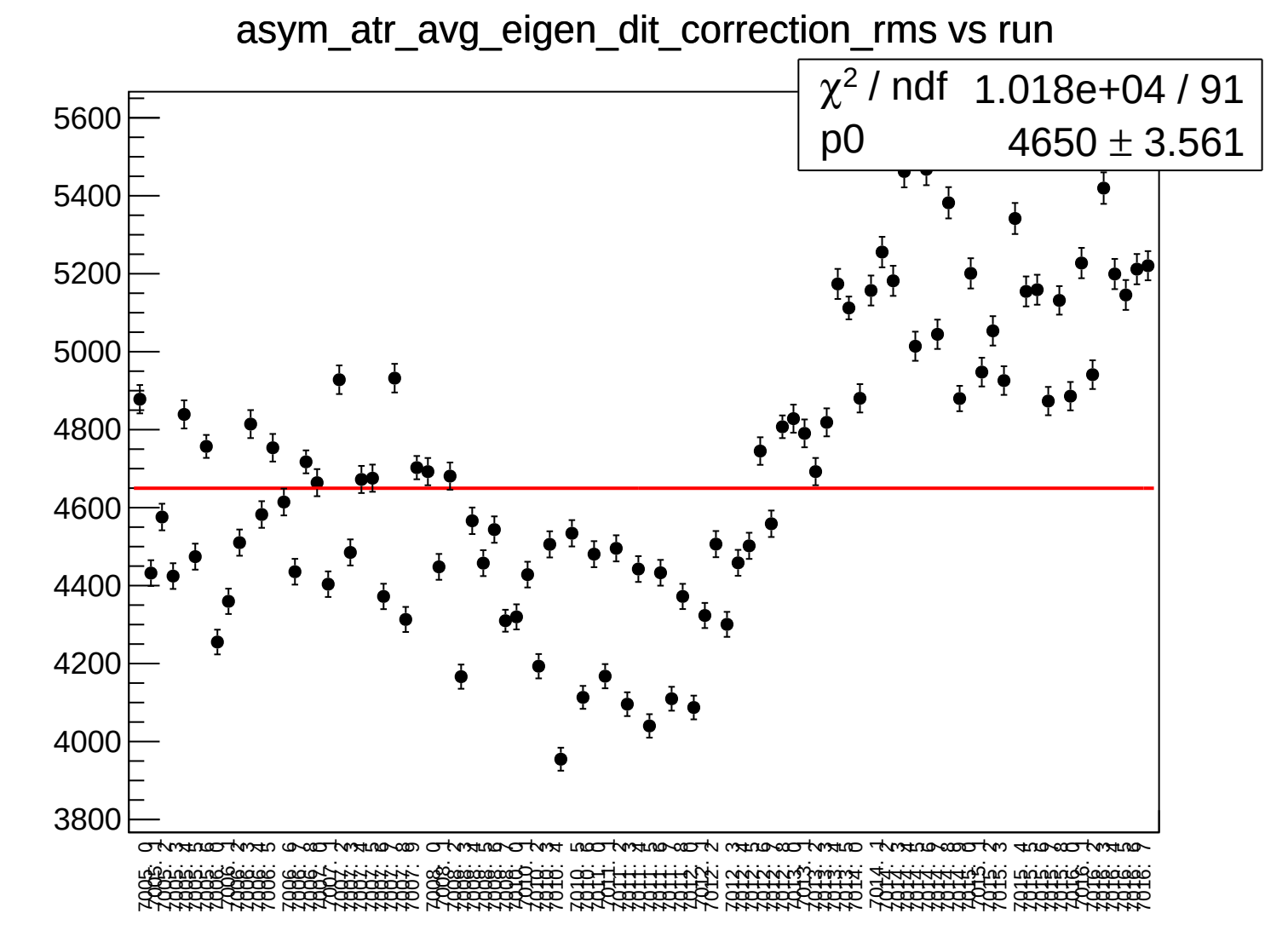

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1.018e+04 / 91
p0 4650 ± 3.561
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

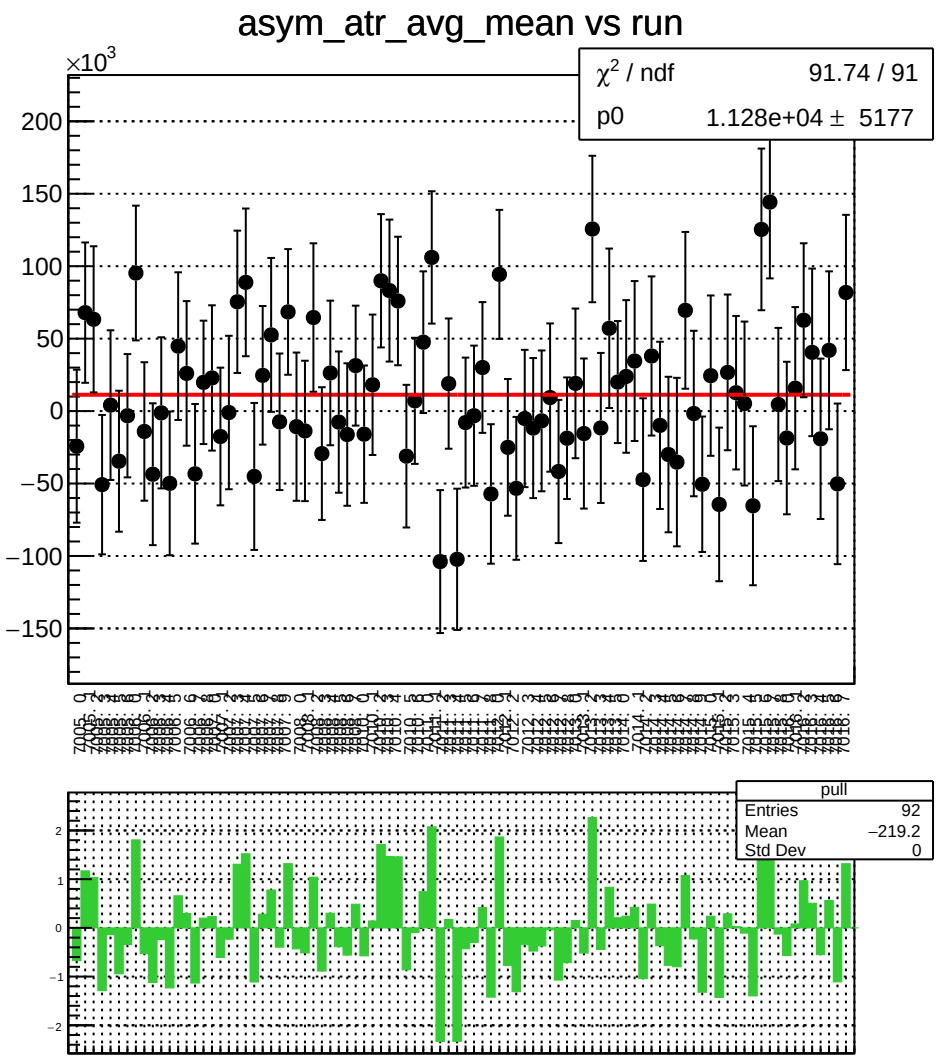

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 92.28 / 91
p0 −1807 ± 2000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −28.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.01263
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

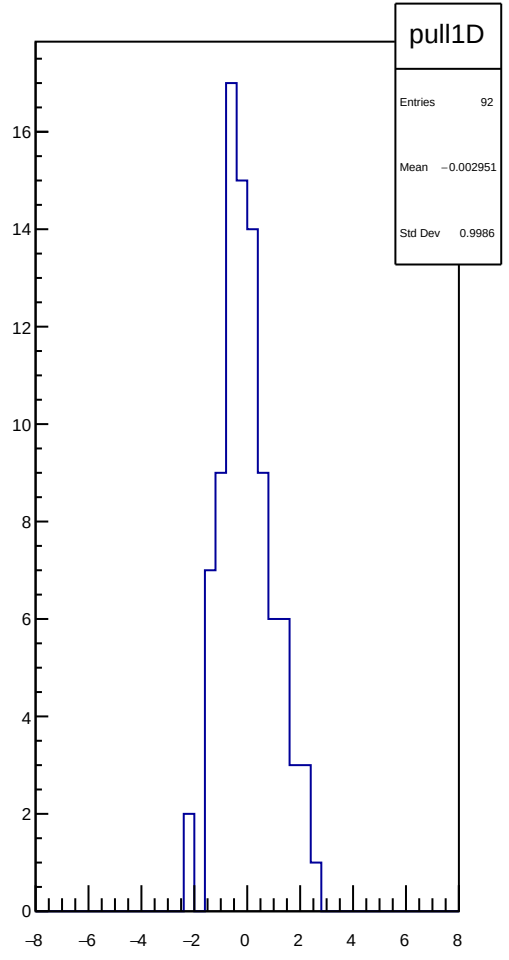

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 289.5 / 91
p0 1852 ± 1.414
1920
1900
1880
1860
1840
1820
1800
1780

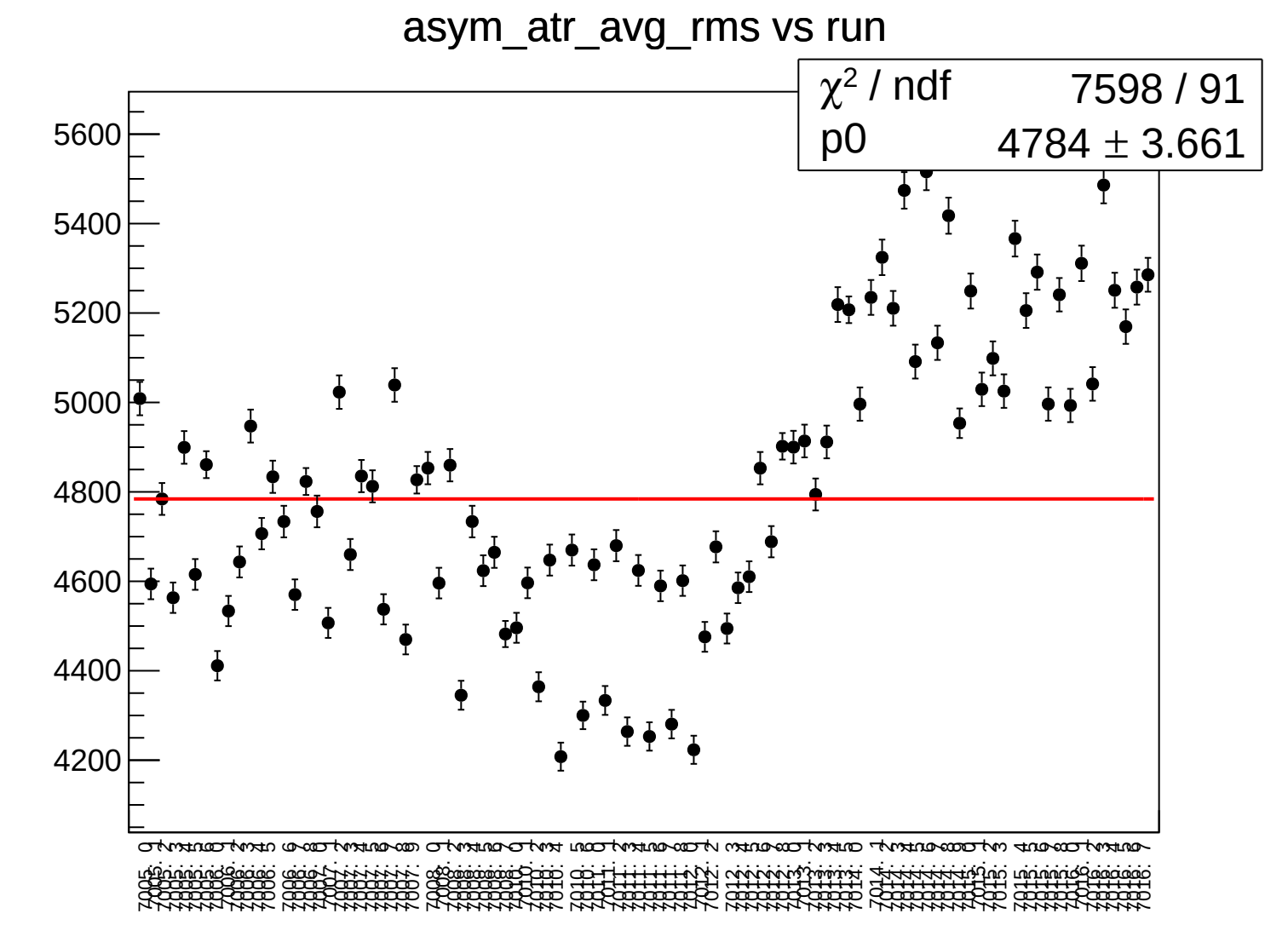

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.38 / 91
p0 −1.319e+04 ± 5036
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 730.9
Std Dev 0
2
1
0
−1
−2

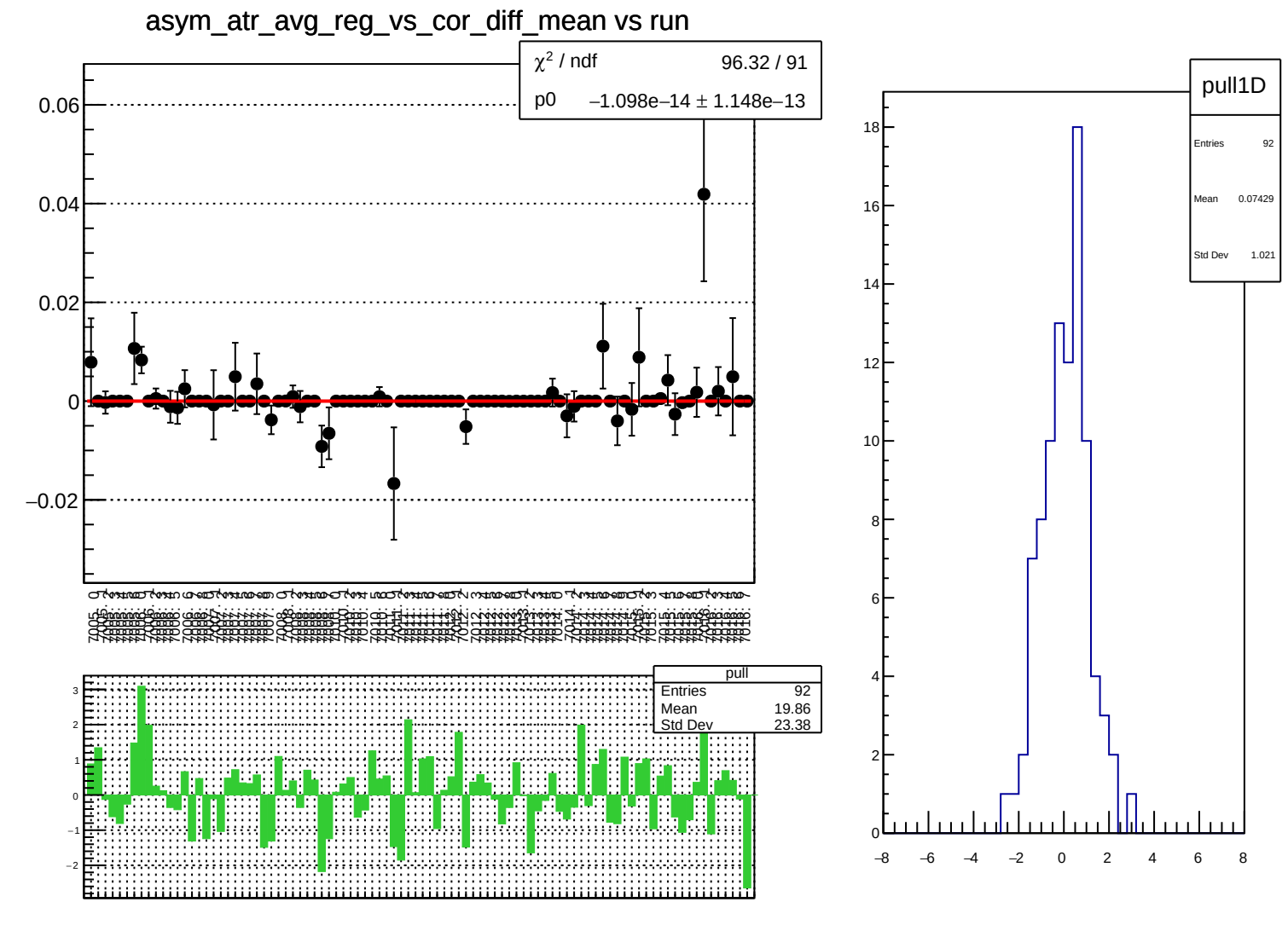

pull1D
Entries 92
Mean −0.0006779
Std Dev 0.969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

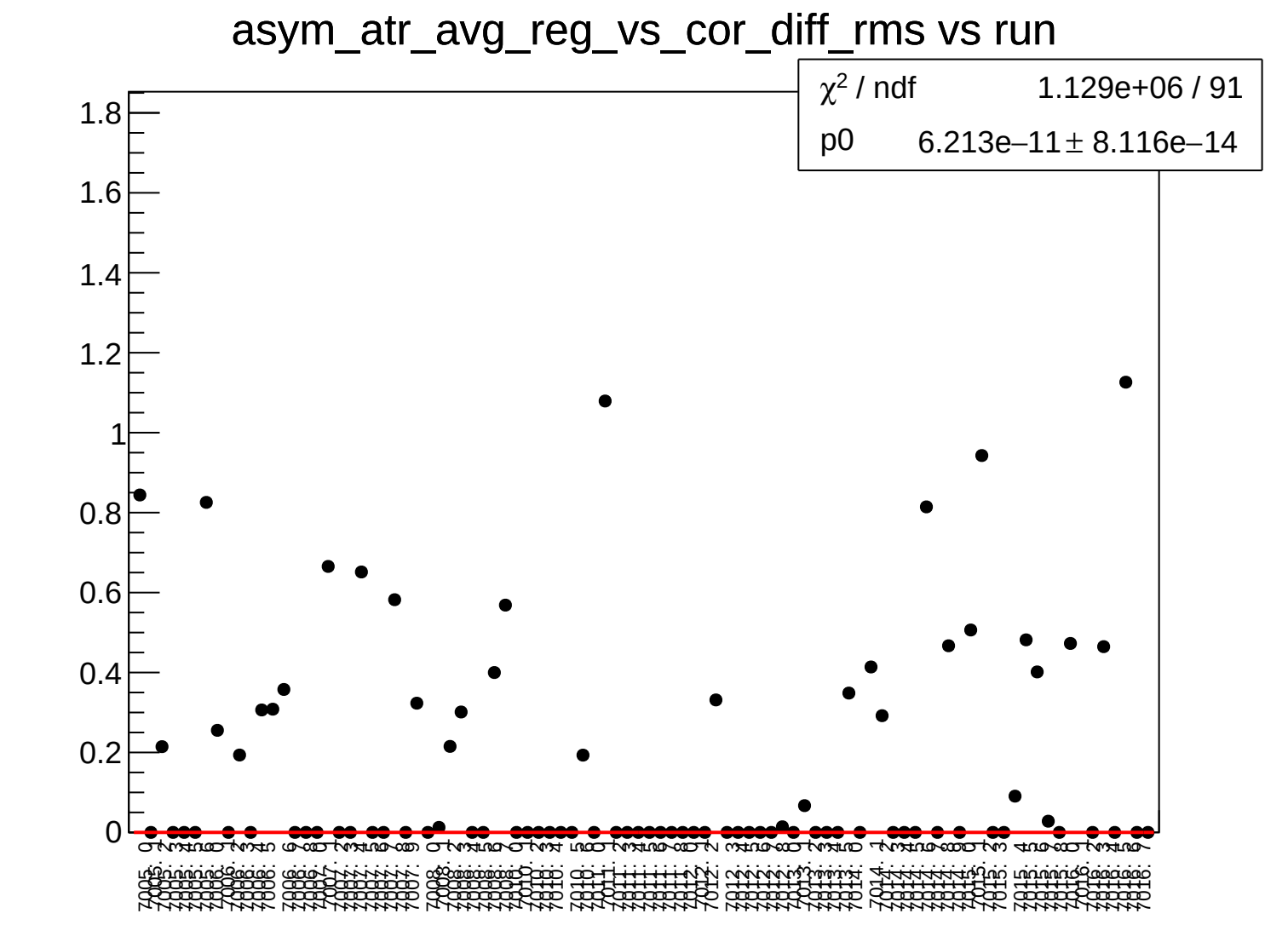

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.018e+04 / 91
p0 4650 ± 3.561
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

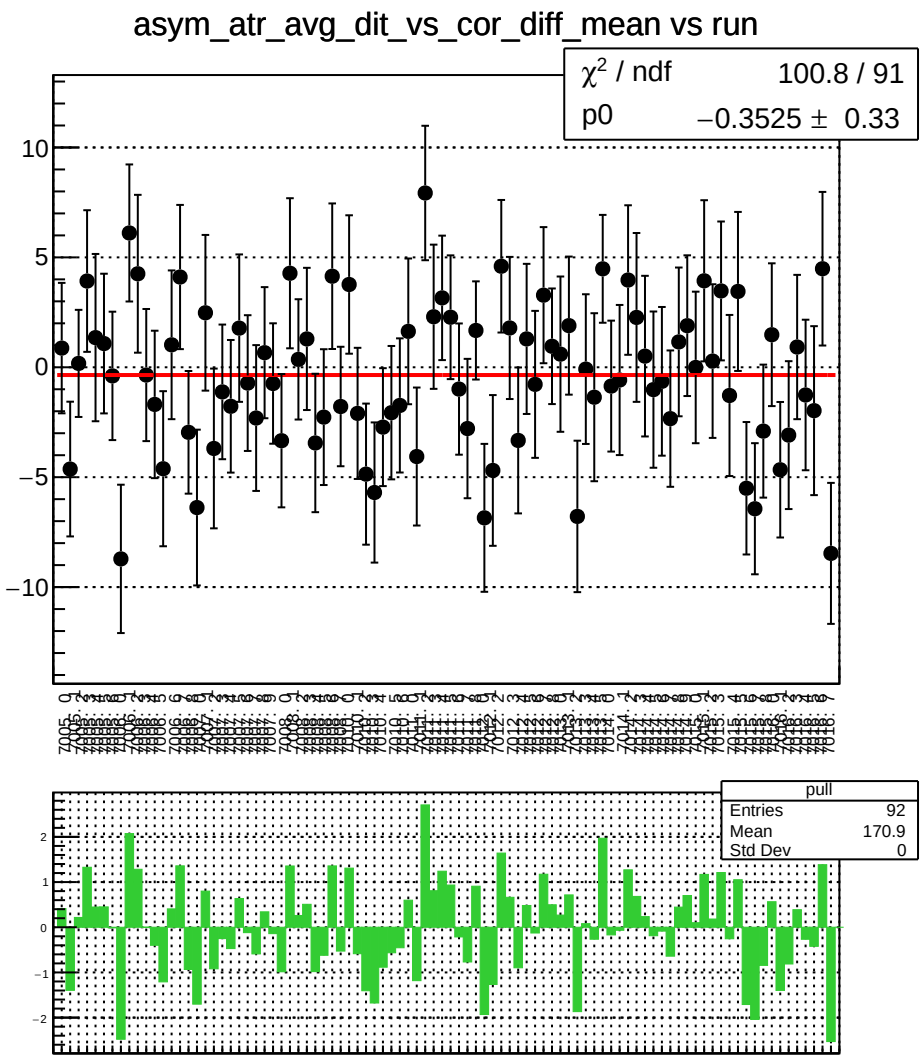

asym_atr_avg_mean vs run
×10^3
χ² / ndf 91.74 / 91
p0 1.128e+04 ± 5177
200
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −219.2
Std Dev 0
2
1
0
−1
−2

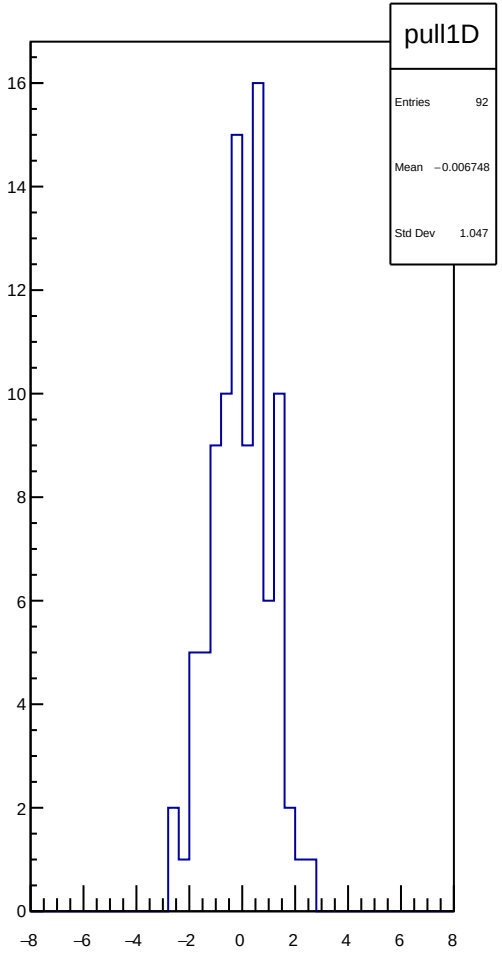

pull1D
Entries 92
Mean −0.002951
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

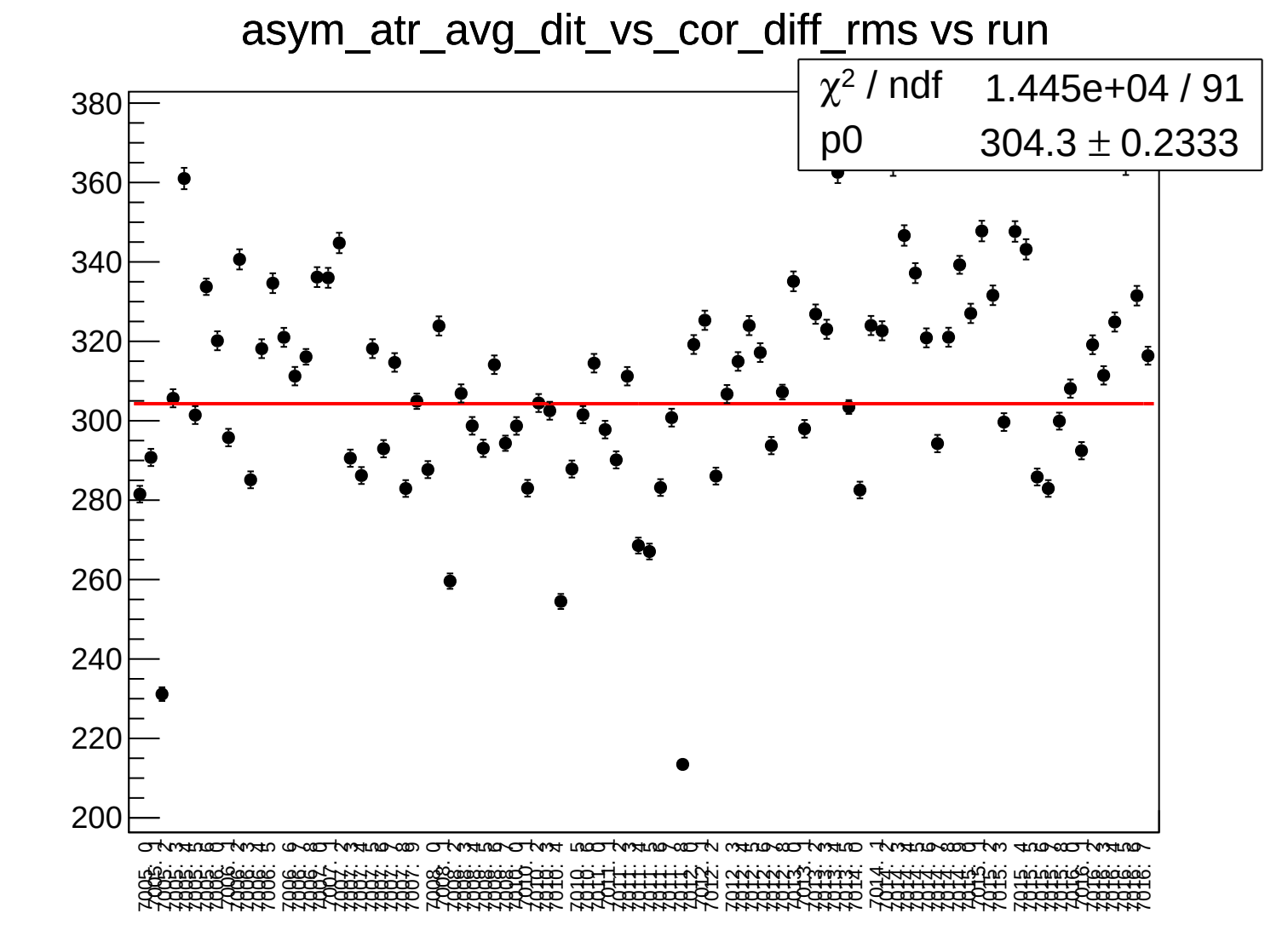

asym_atr_avg_rms vs run
χ² / ndf 7598 / 91
p0 4784 ± 3.661
5600
5400
5200
5000
4800
4600
4400
4200

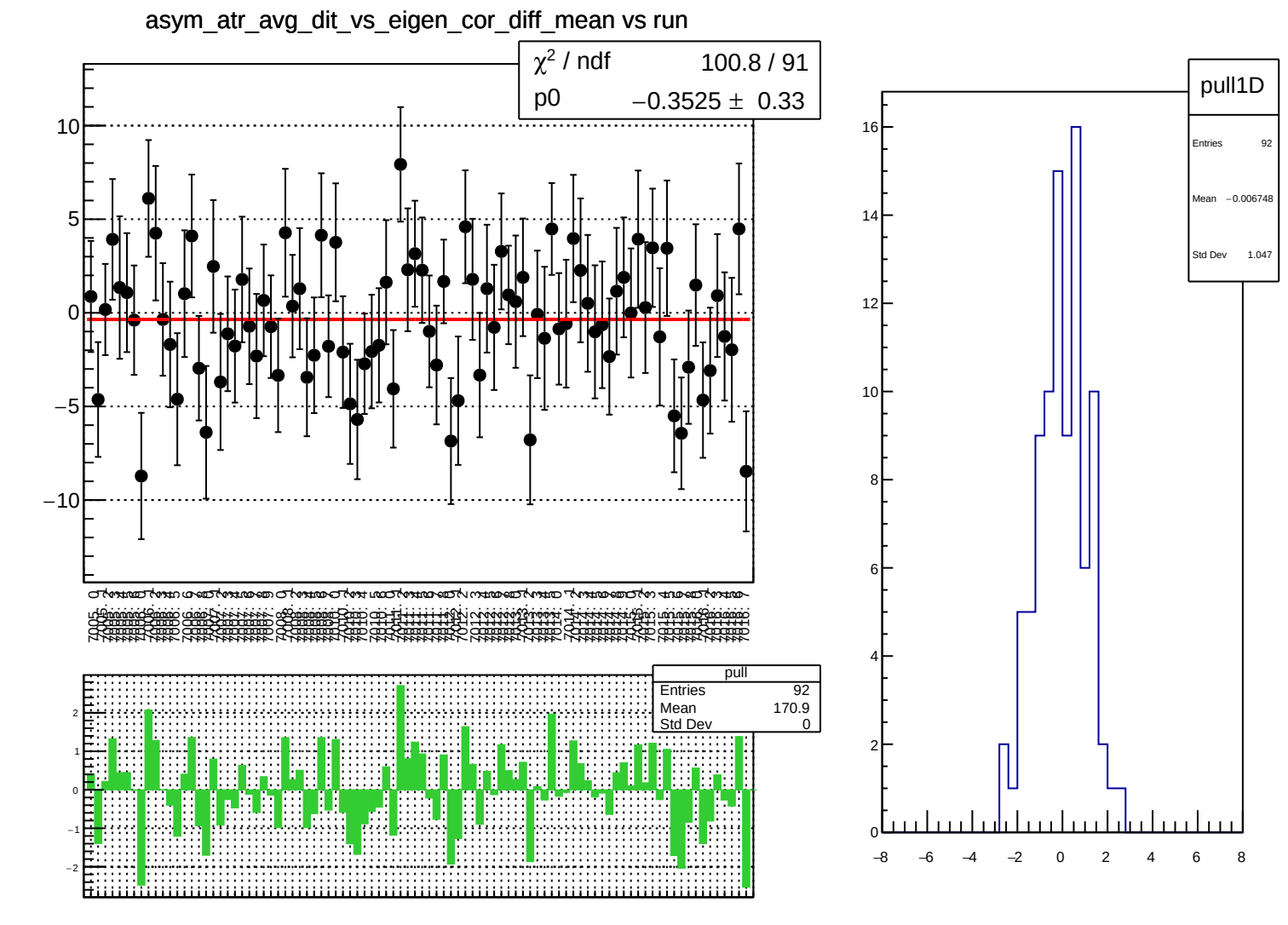

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.32 / 91
p0 −1.098e−14 ± 1.148e−13
0.06
0.04
0.02
0
−0.02
pull
Entries 92
Mean 19.86
Std Dev 23.38
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.07429
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

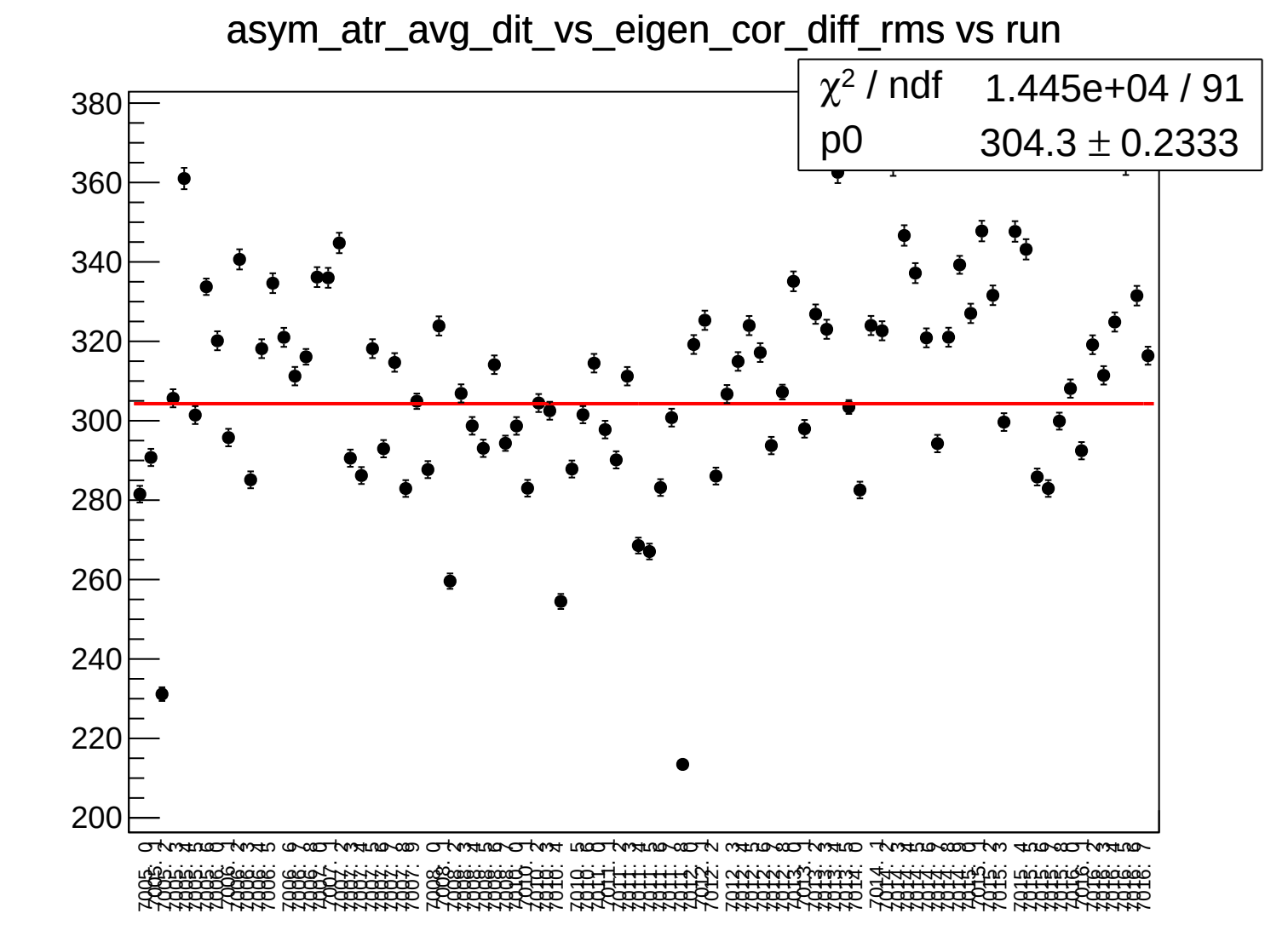

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.129e+06 / 91
p0 6.213e−11 ± 8.116e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

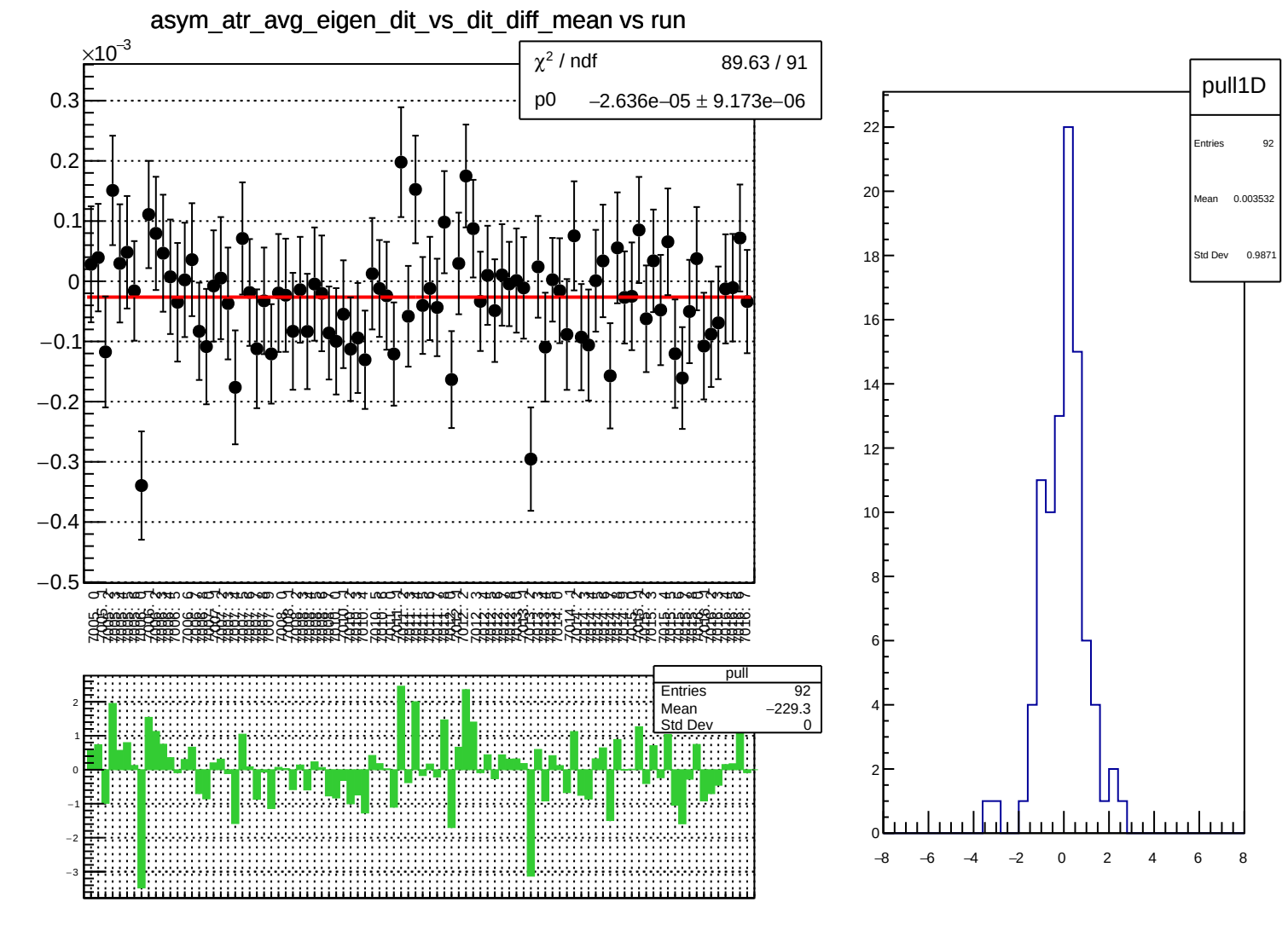

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 91
p0 −0.3525 ± 0.33
pull
Entries 92
Mean 170.9
Std Dev 0

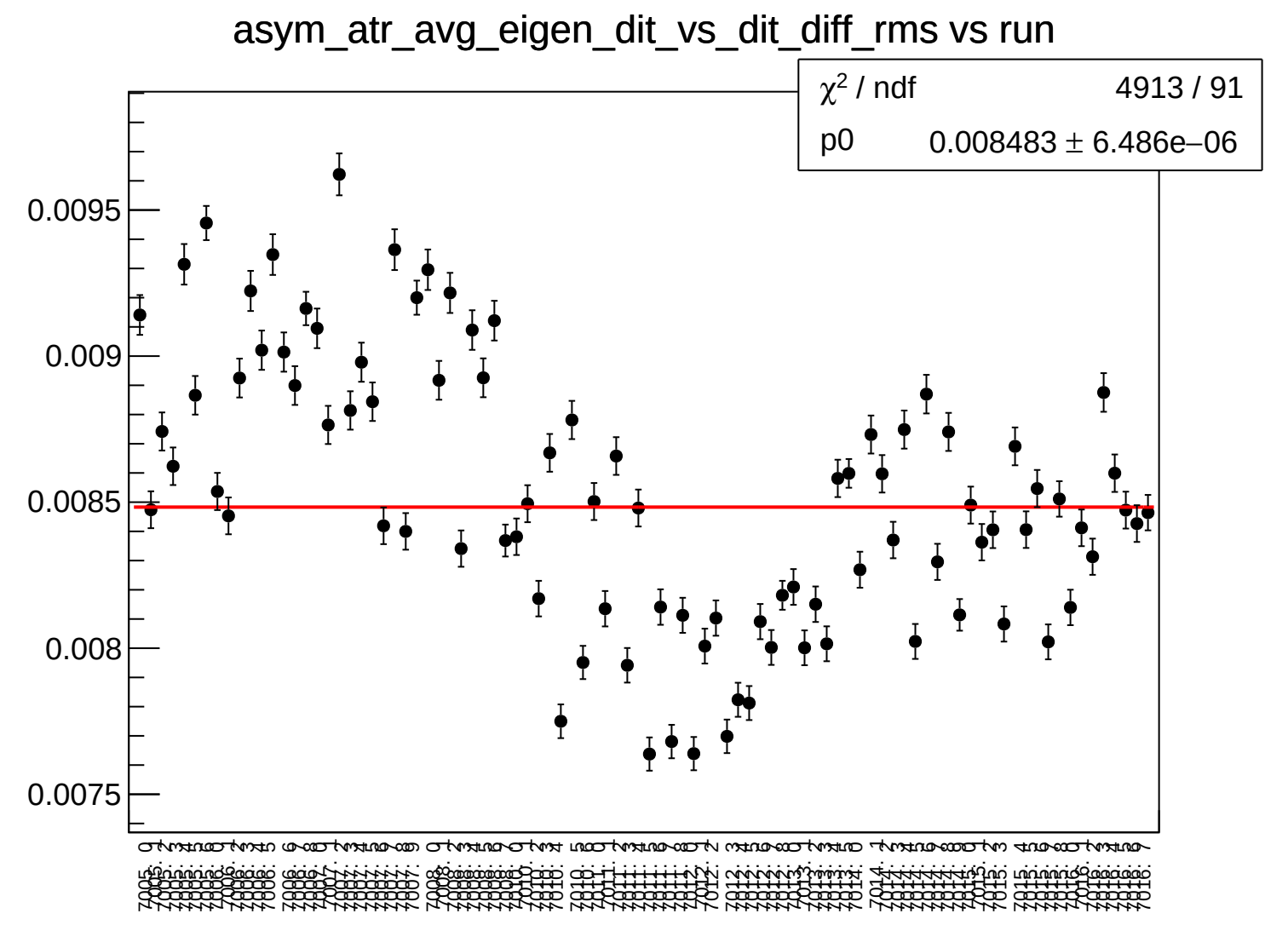

pull1D
Entries 92
Mean −0.006748
Std Dev 1.047

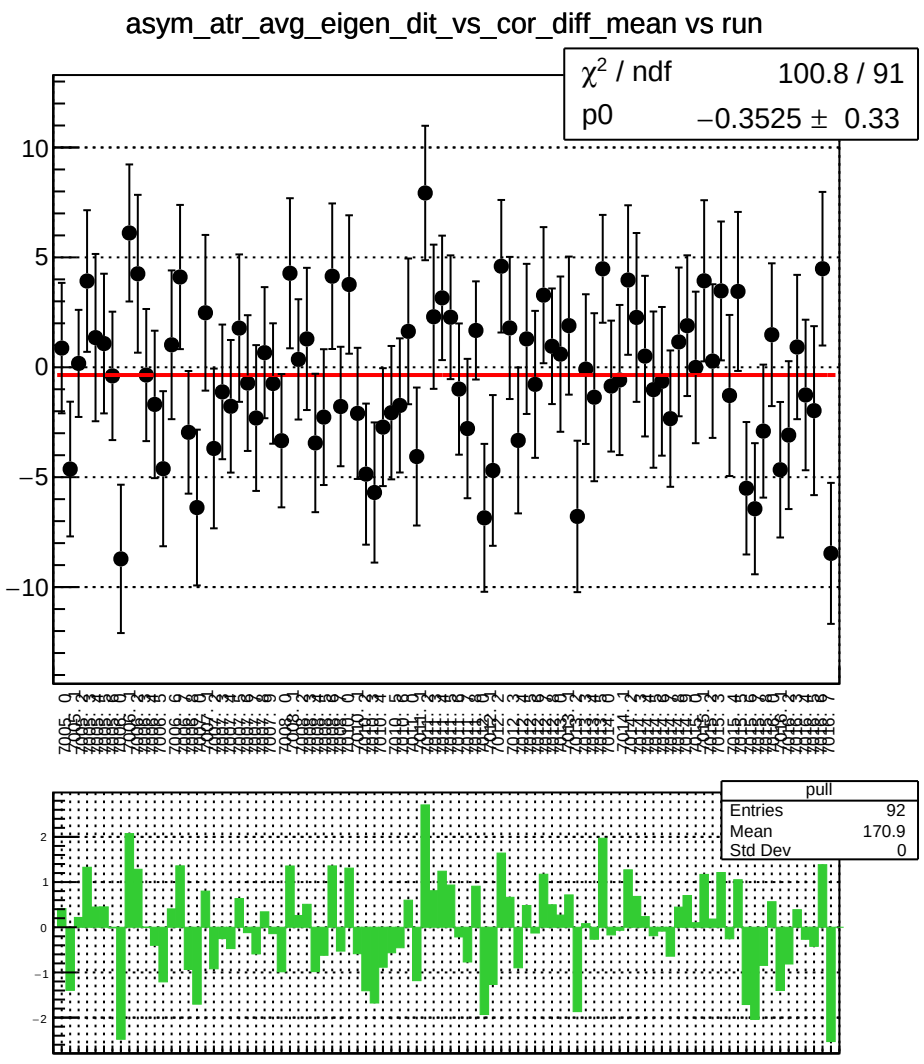

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.445e+04 / 91
p0 304.3 ± 0.2333
380
360
340
320
300
280
260
240
220
200

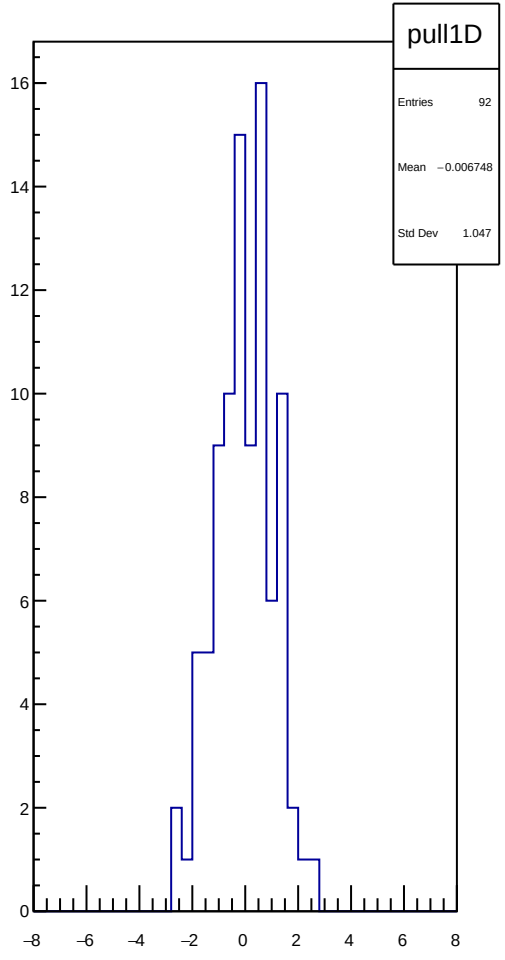

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 91
p0 −0.3525 ± 0.33
pull
Entries 92
Mean 170.9
Std Dev 0
pull1D
Entries 92
Mean −0.006748
Std Dev 1.047

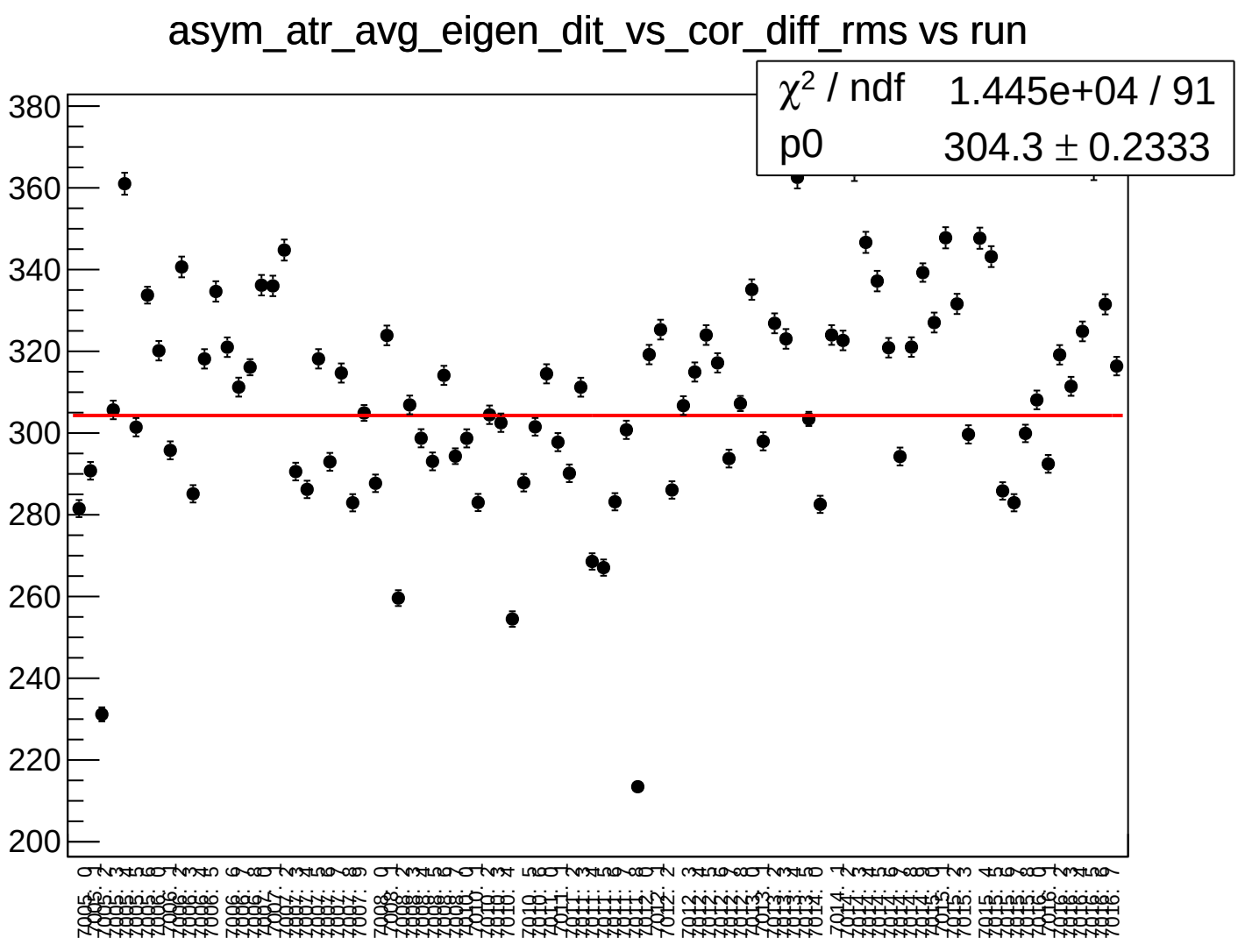

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.445e+04 / 91
p0 304.3 ± 0.2333
380
360
340
320
300
280
260
240
220
200

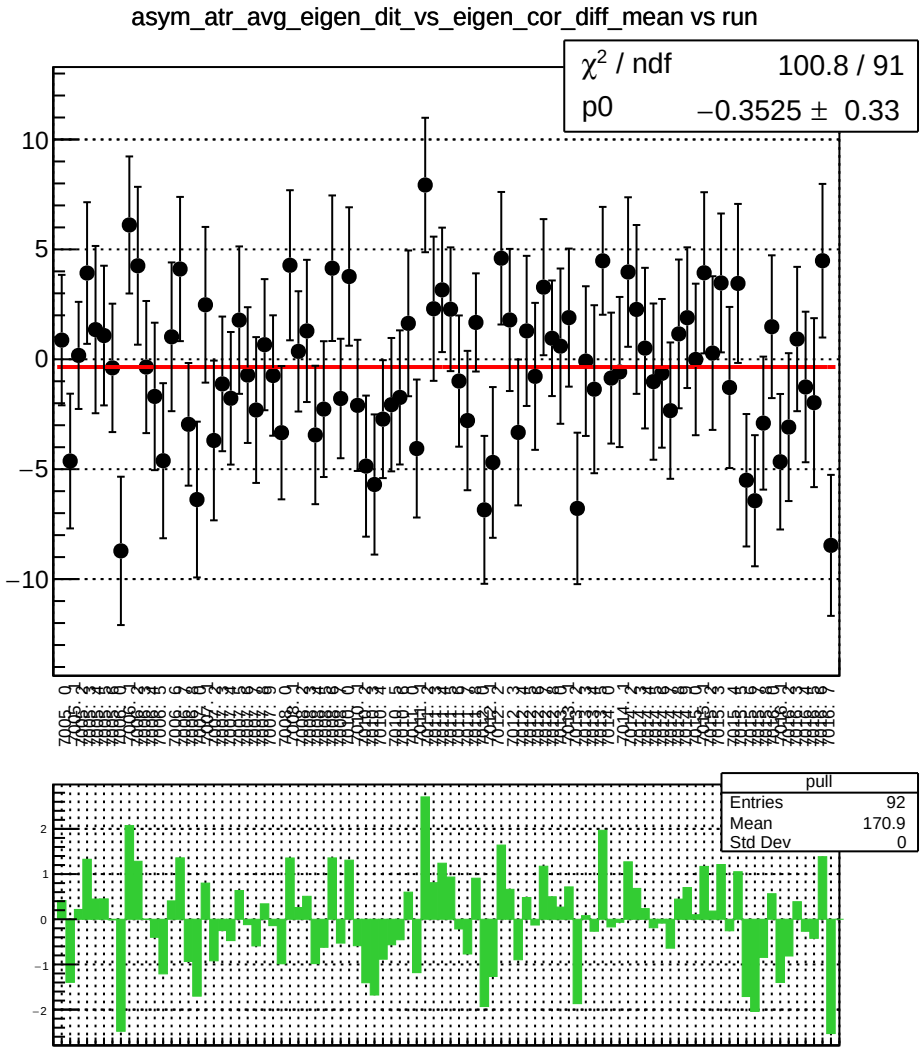

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.63 / 91
p0 −2.636e−05 ± 9.173e−06
pull
Entries 92
Mean −229.3
Std Dev 0
pull1D
Entries 92
Mean 0.003532
Std Dev 0.9871

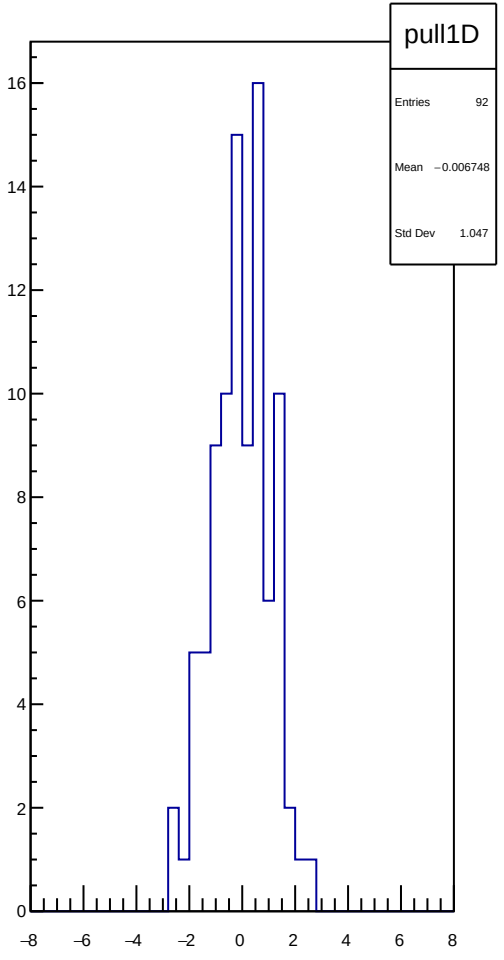

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4913 / 91
p0 0.008483 ± 6.486e−06
0.0095
0.009
0.0085
0.008
0.0075

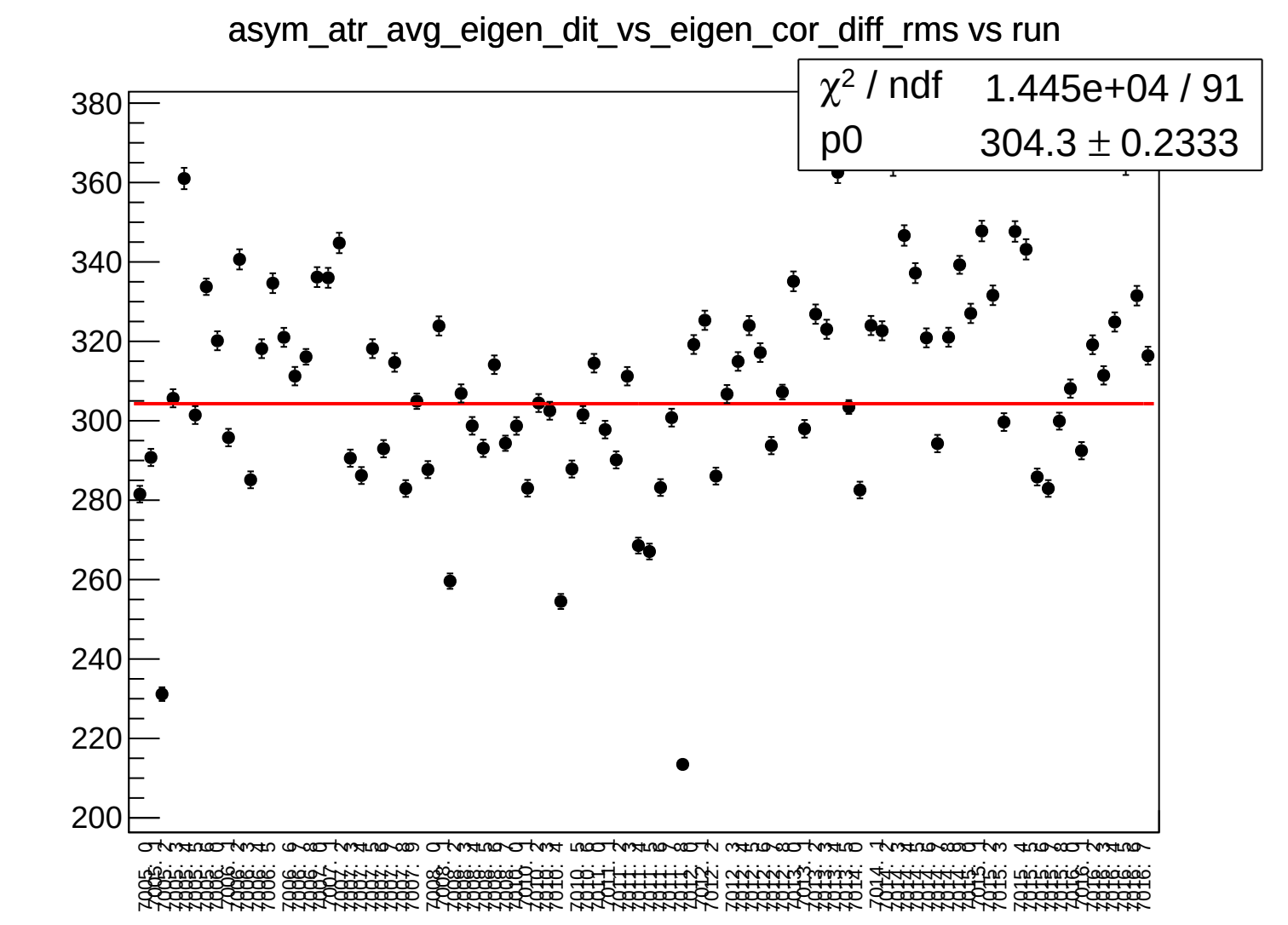

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 91
p0 −0.3525 ± 0.33
10
5
0
−5
−10
pull
Entries 92
Mean 170.9
Std Dev 0
2
1
0
−1
−2

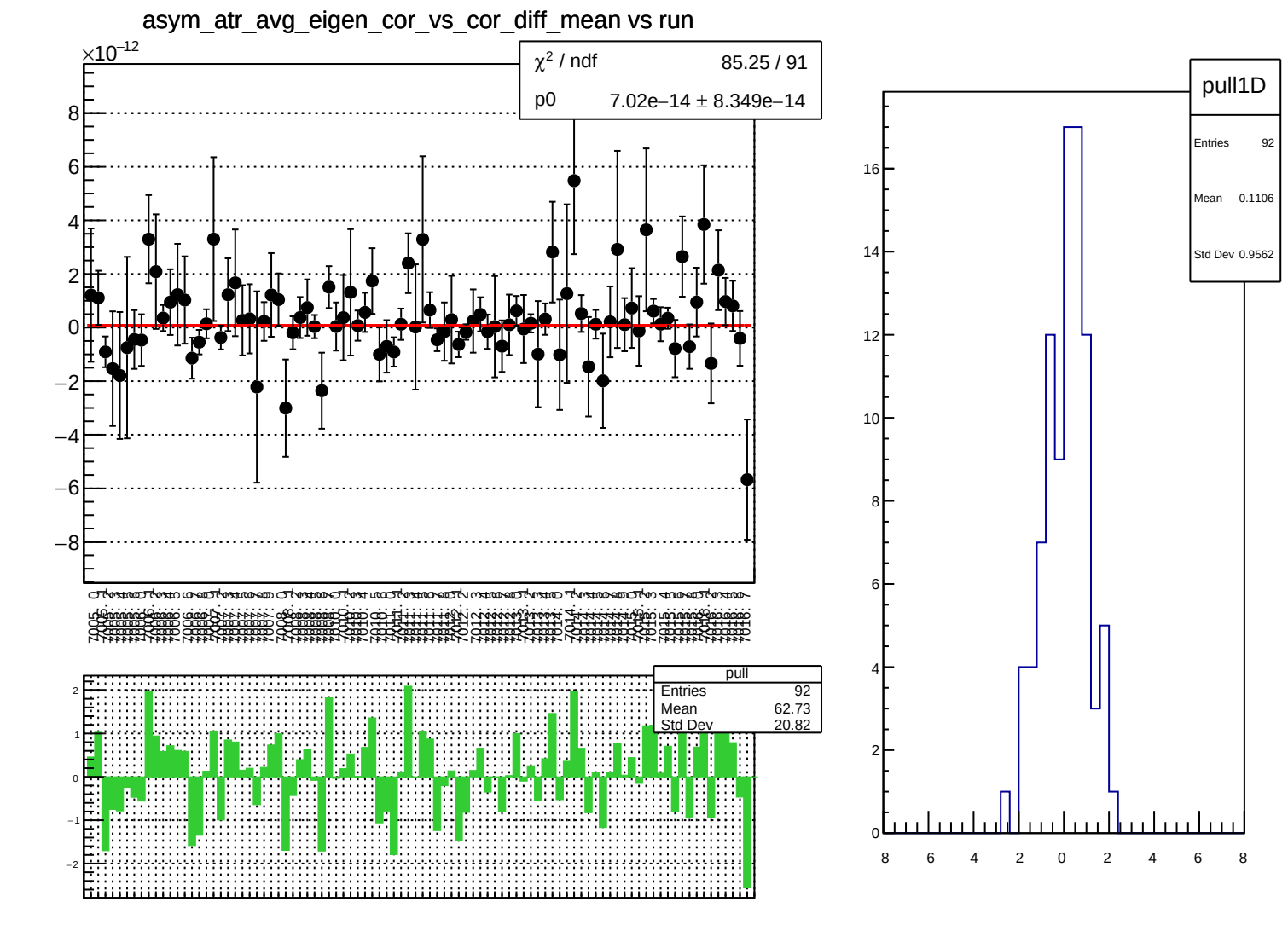

pull1D
Entries 92
Mean −0.006748
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

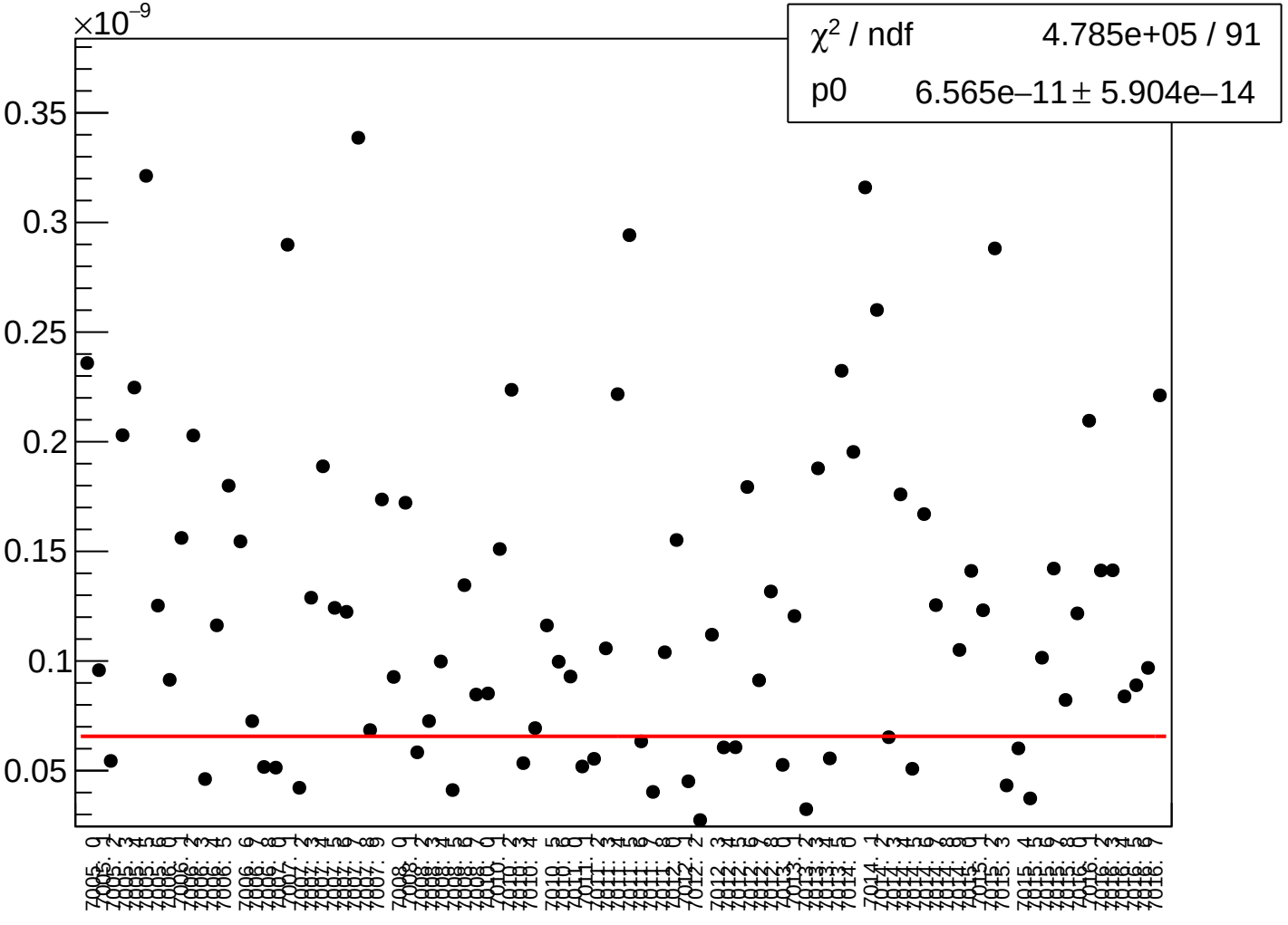

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.445e+04 / 91
p0 304.3 ± 0.2333
380
360
340
320
300
280
260
240
220
200

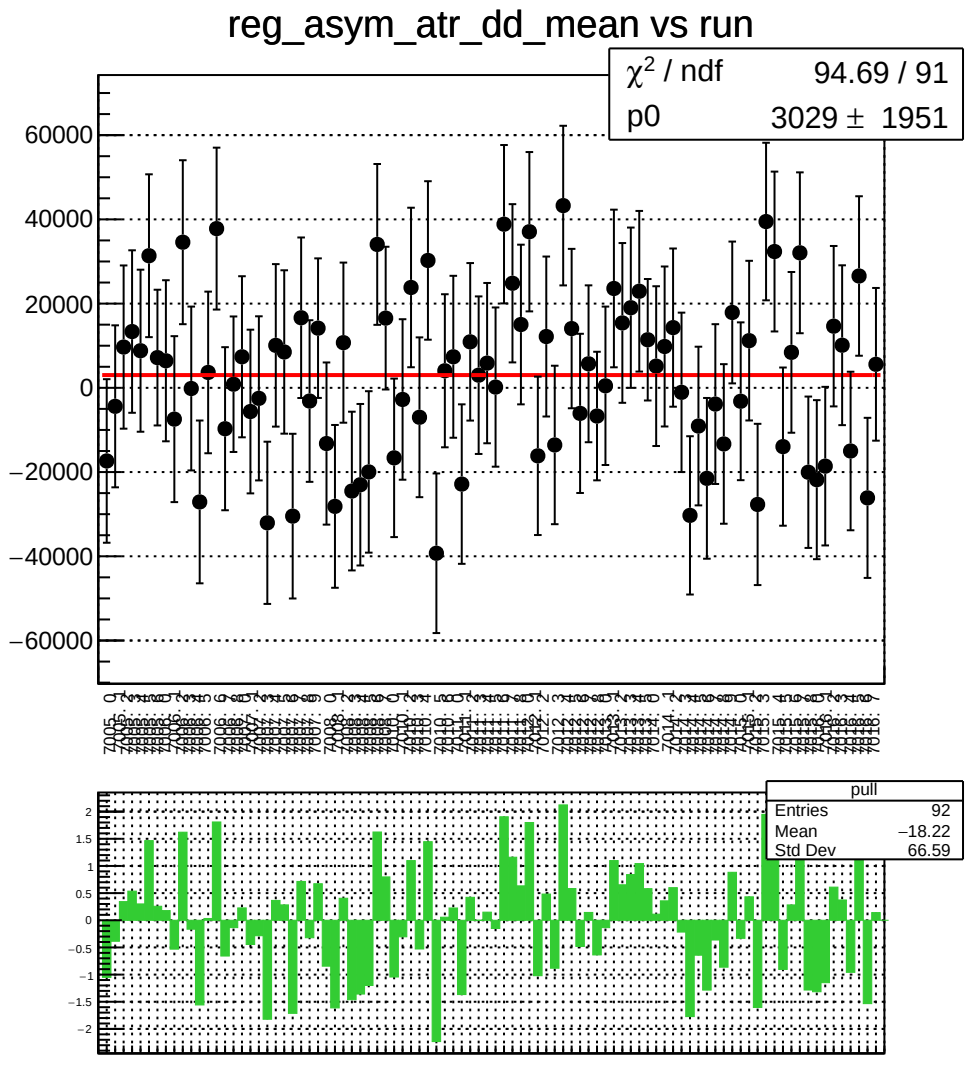

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 91
p0 −0.3525 ± 0.33
pull
Entries 92
Mean 170.9
Std Dev 0

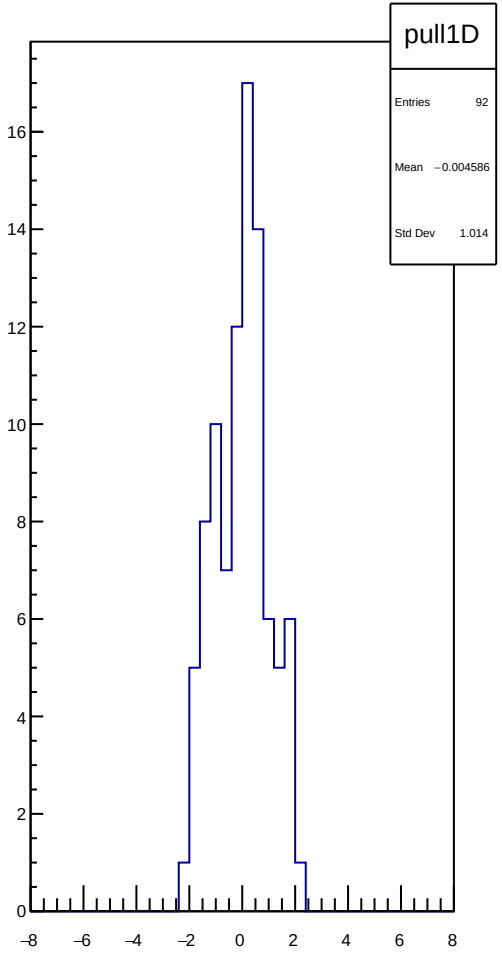

pull1D
Entries 92
Mean −0.006748
Std Dev 1.047

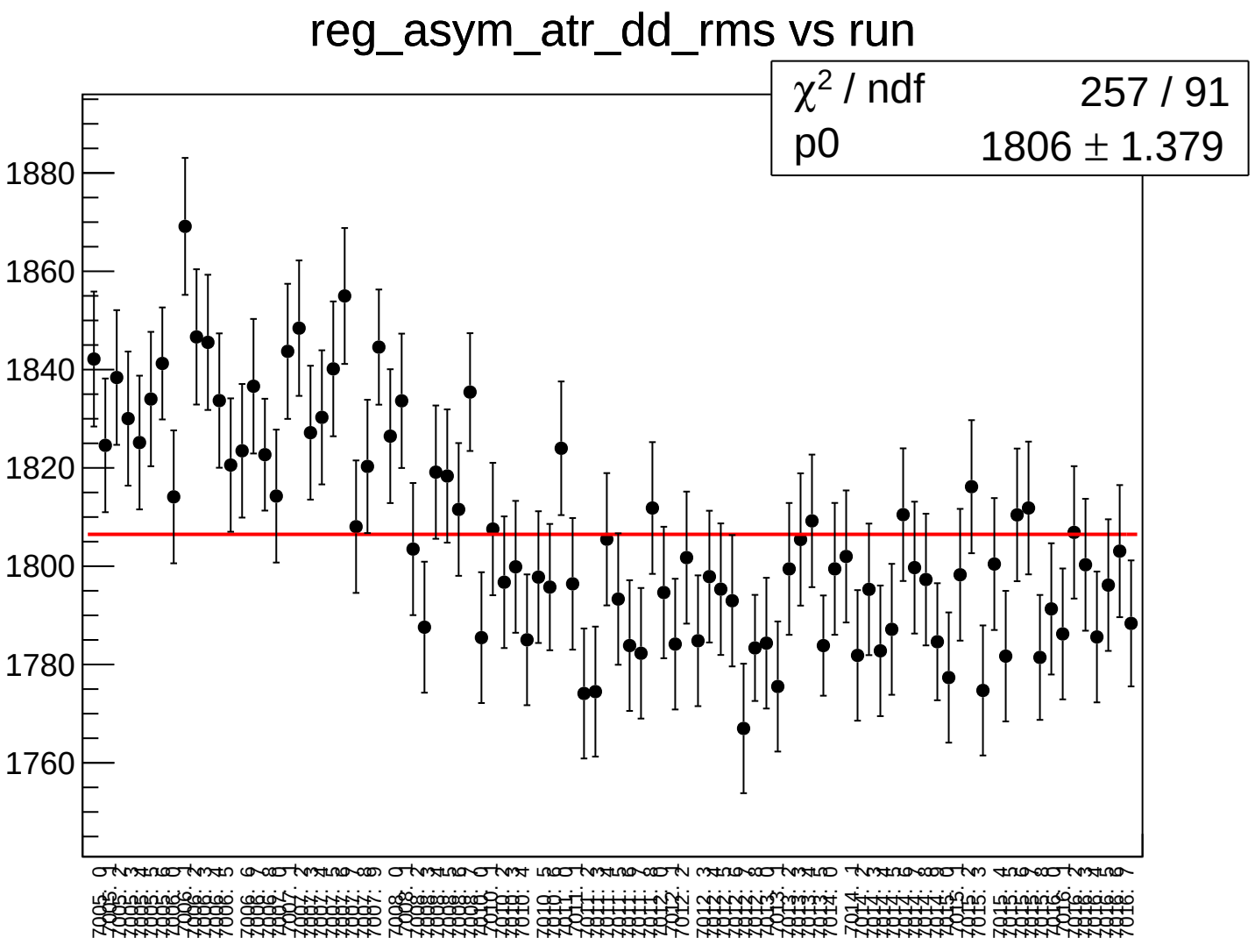

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.445e+04 / 91
p0 304.3 ± 0.2333
380
360
340
320
300
280
260
240
220
200

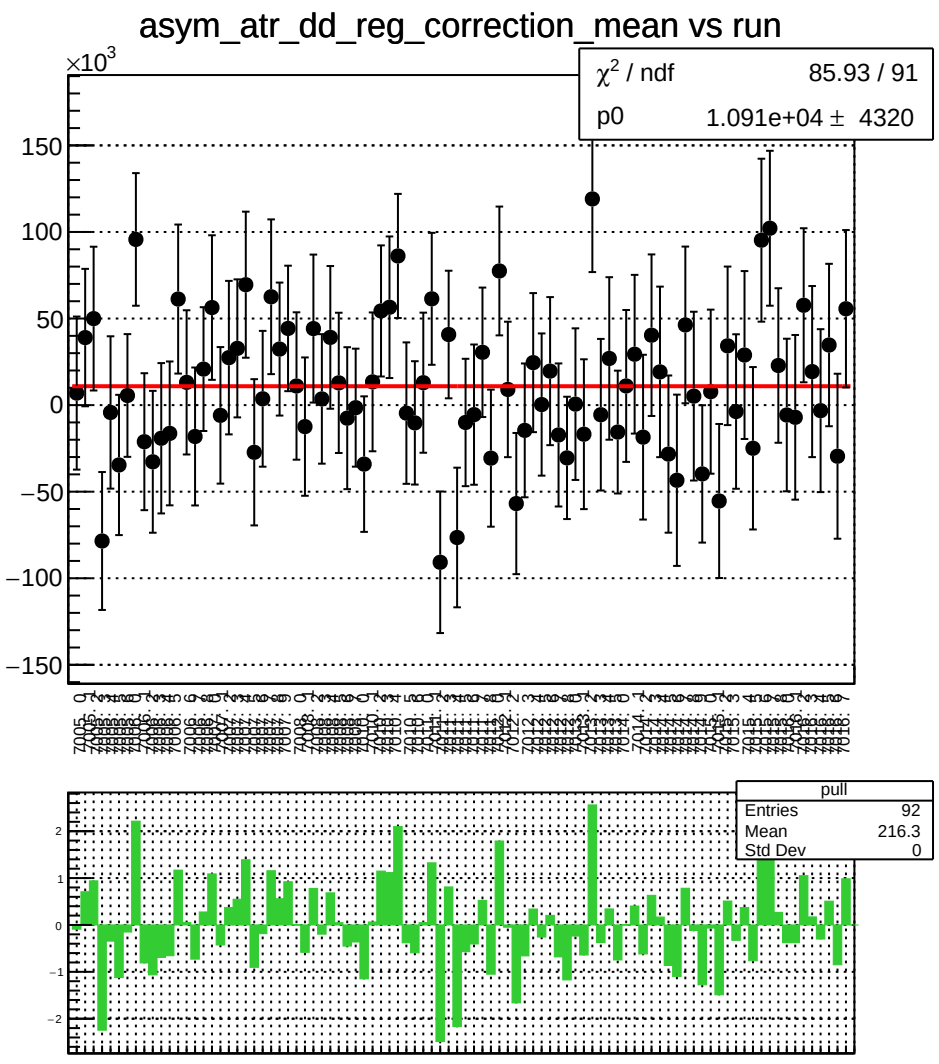

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.25 / 91
p0 7.02e−14 ± 8.349e−14
pull
Entries 92
Mean 62.73
Std Dev 20.82
pull1D
Entries 92
Mean 0.1106
Std Dev 0.9562

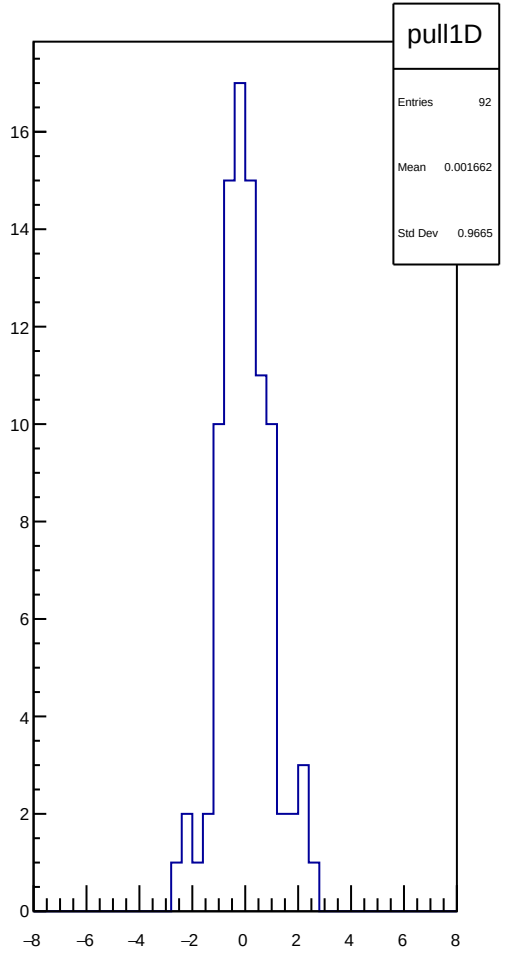

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.785e+05 / 91
p0 6.565e−11 ± 5.904e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

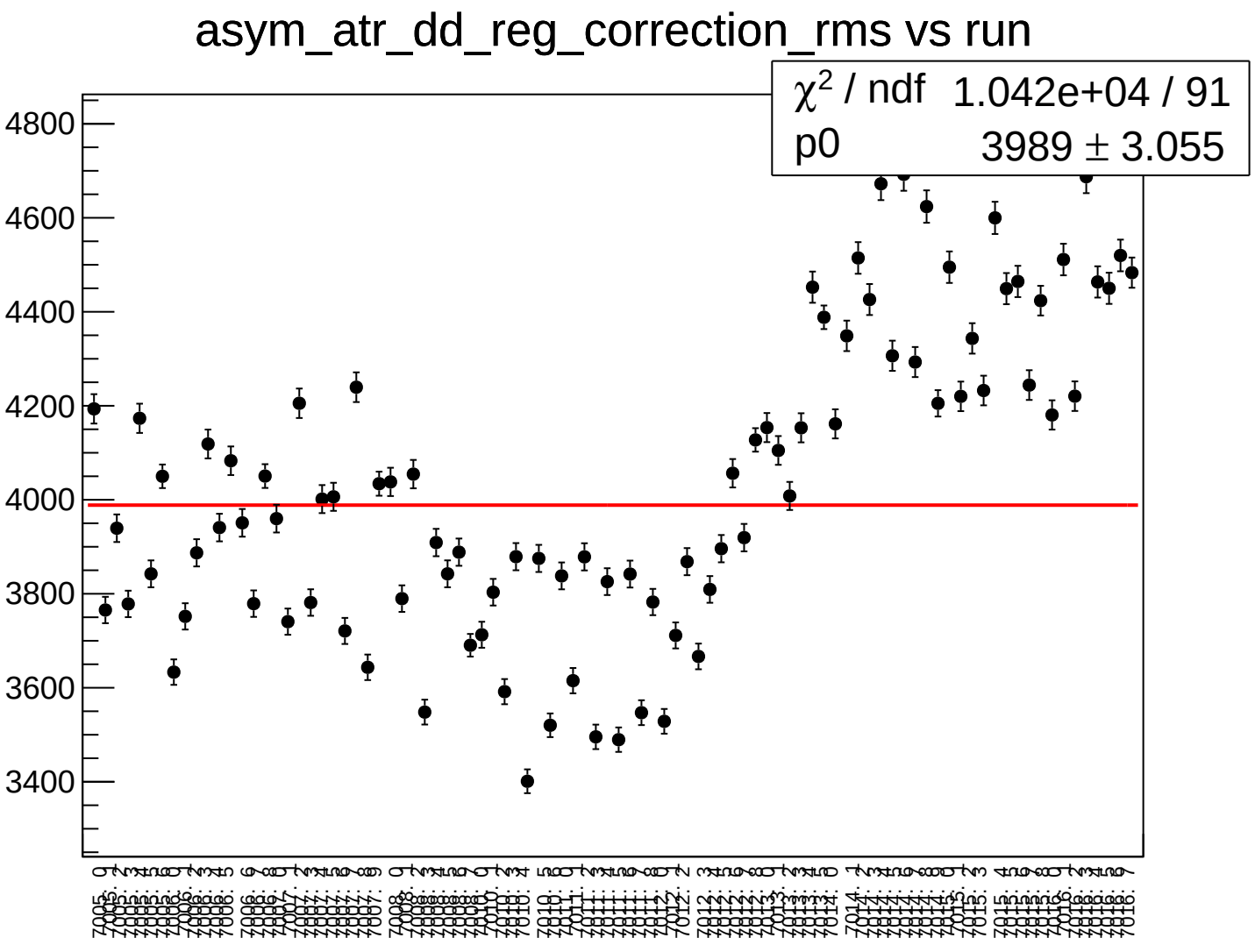

reg_asym_atr_dd_mean vs run
χ² / ndf 94.69 / 91
p0 3029 ± 1951
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −18.22
Std Dev 66.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

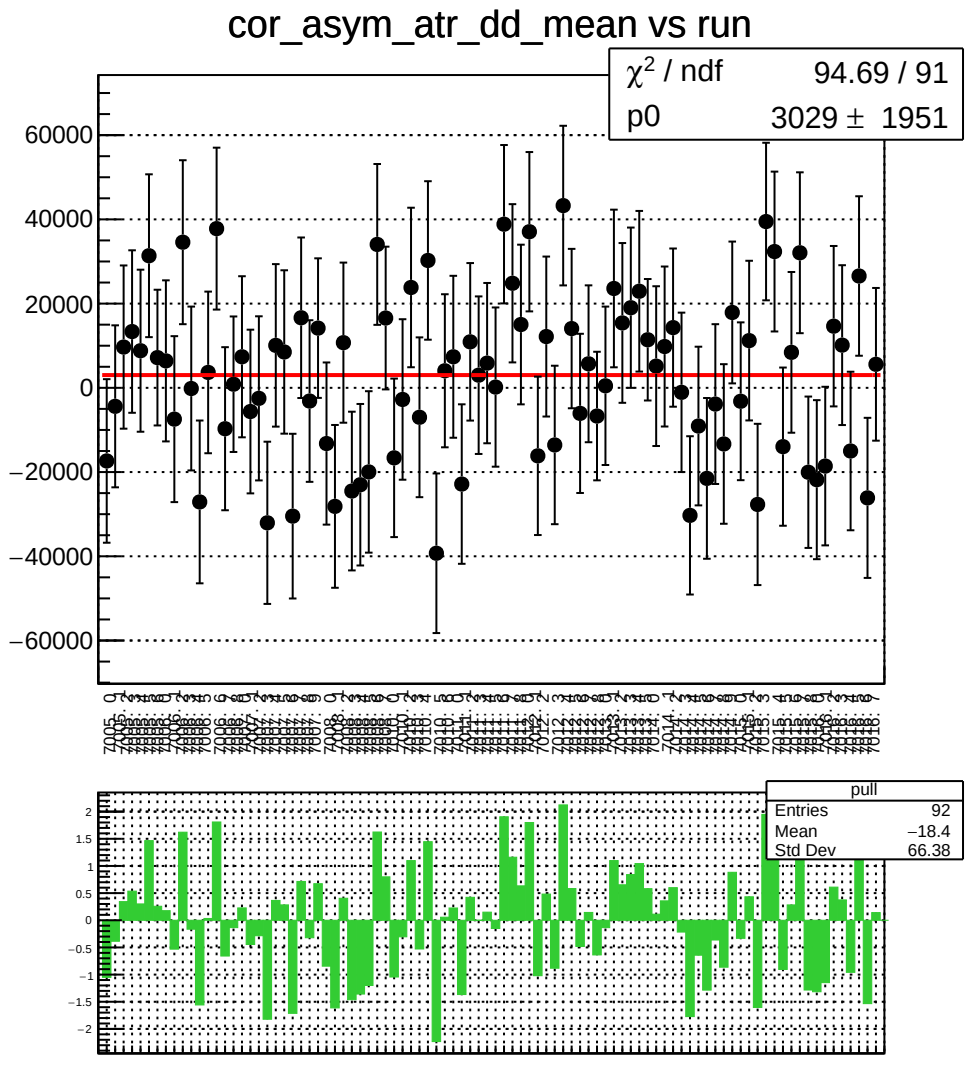

pull1D
Entries 92
Mean −0.004586
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

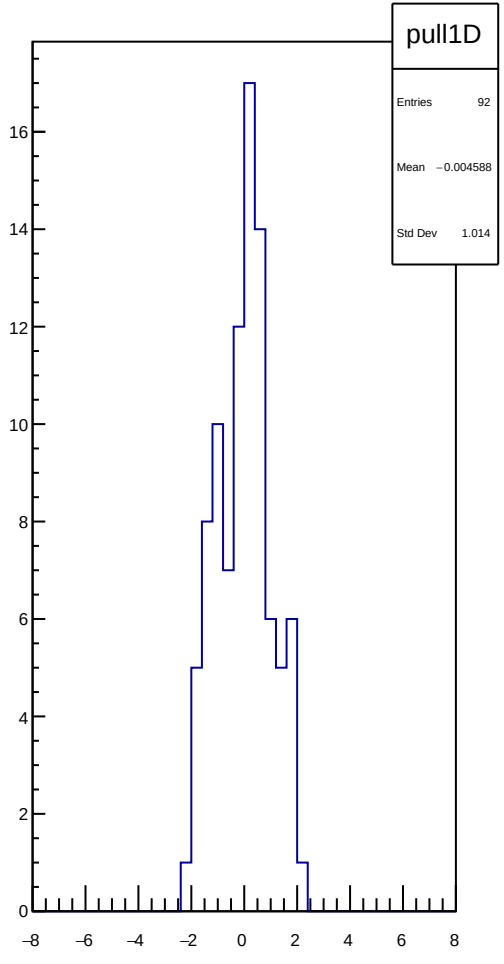

reg_asym_atr_dd_rms vs run
χ² / ndf 257 / 91
p0 1806 ± 1.379
1880
1860
1840
1820
1800
1780
1760

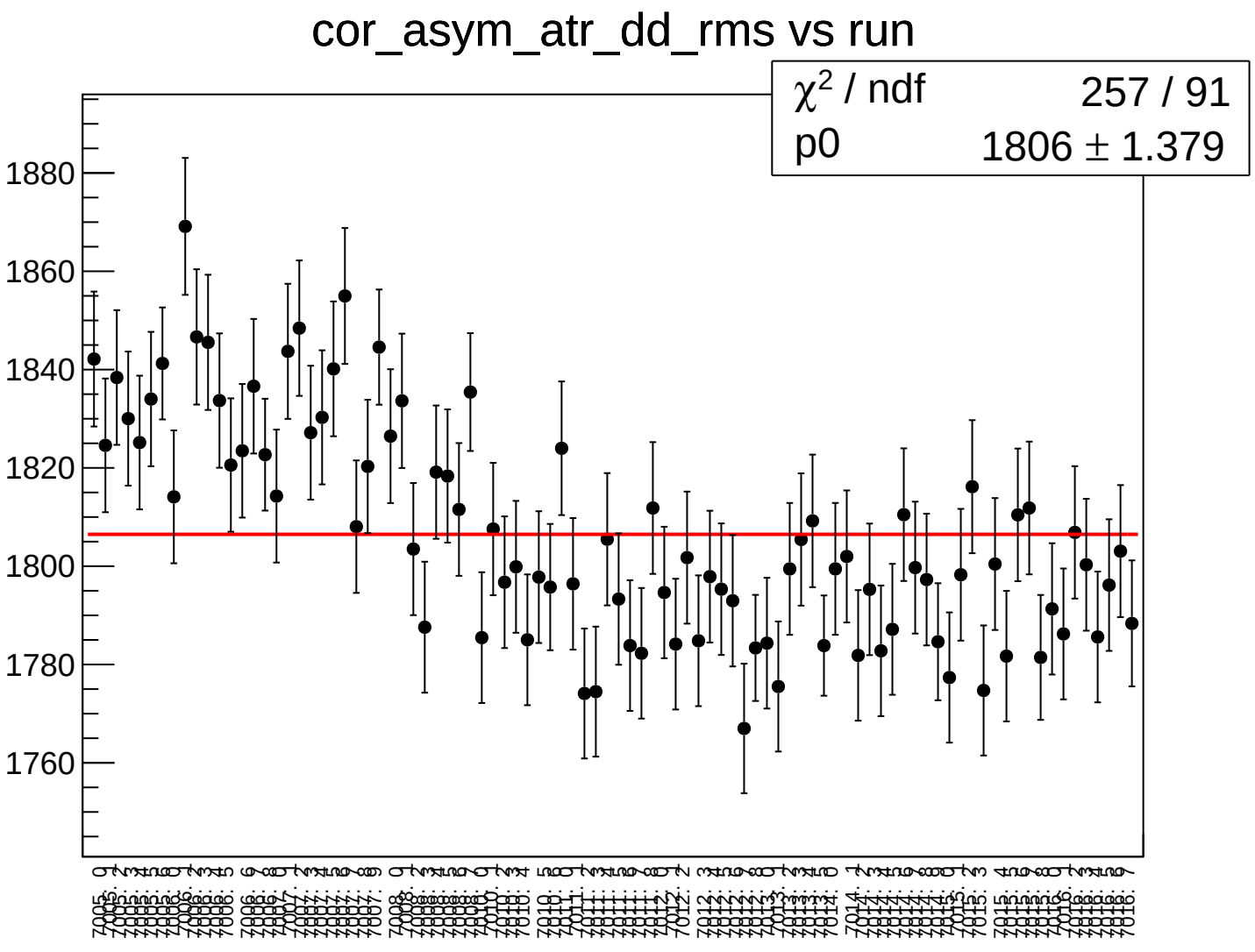

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.93 / 91
p0 1.091e+04 ± 4320
pull
Entries 92
Mean 216.3
Std Dev 0

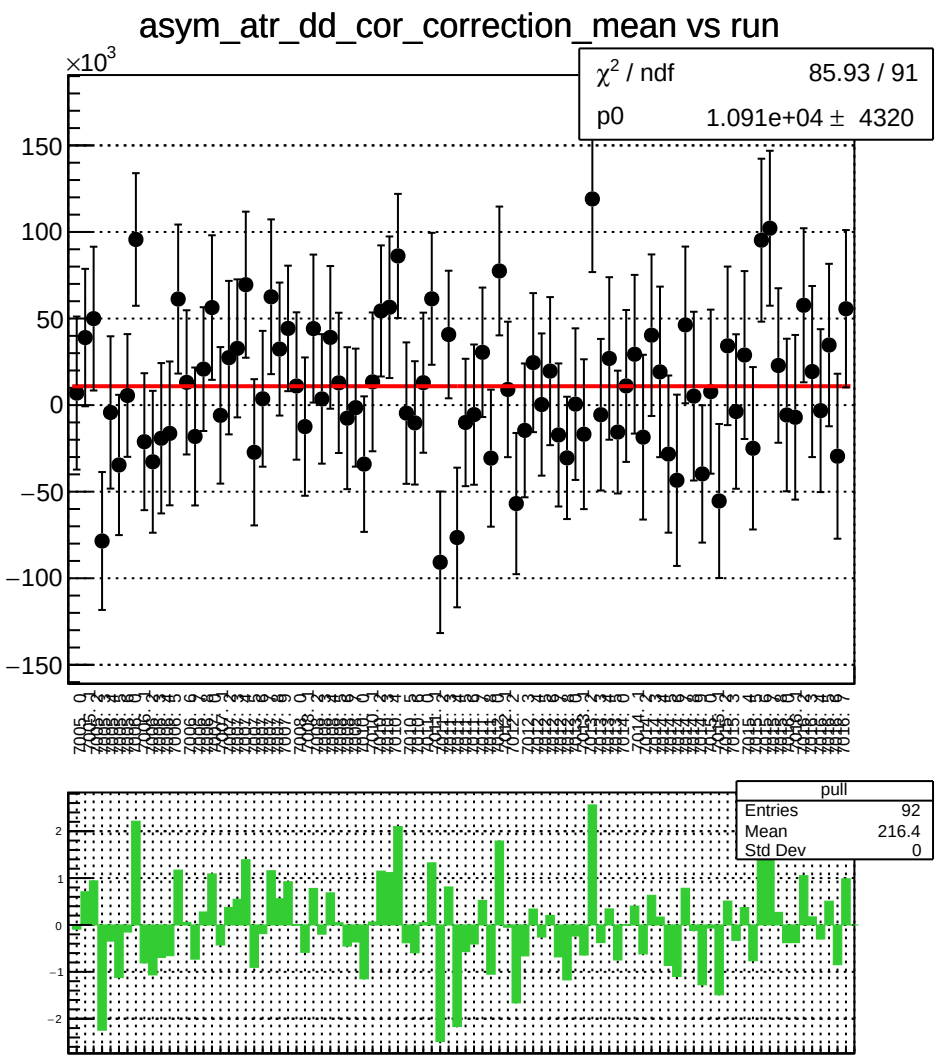

pull1D
Entries 92
Mean 0.001662
Std Dev 0.9665

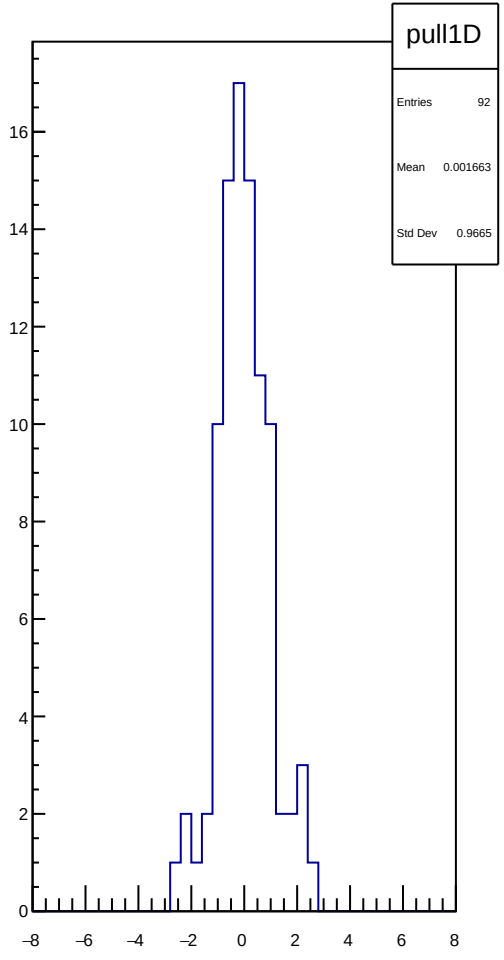

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.042e+04 / 91
p0 3989 ± 3.055
4800
4600
4400
4200
4000
3800
3600
3400

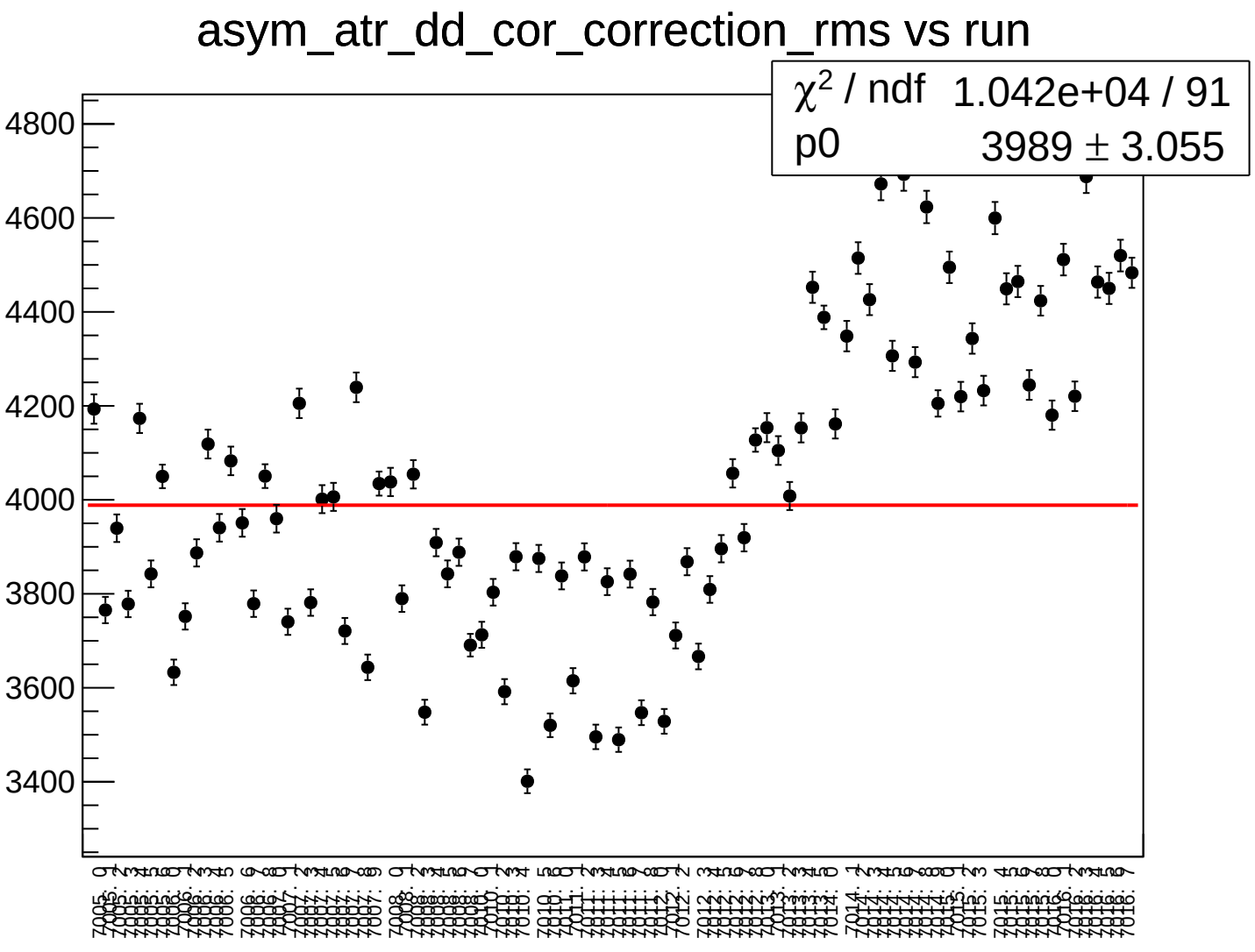

cor_asym_atr_dd_mean vs run
χ² / ndf 94.69 / 91
p0 3029 ± 1951
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −18.4
Std Dev 66.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

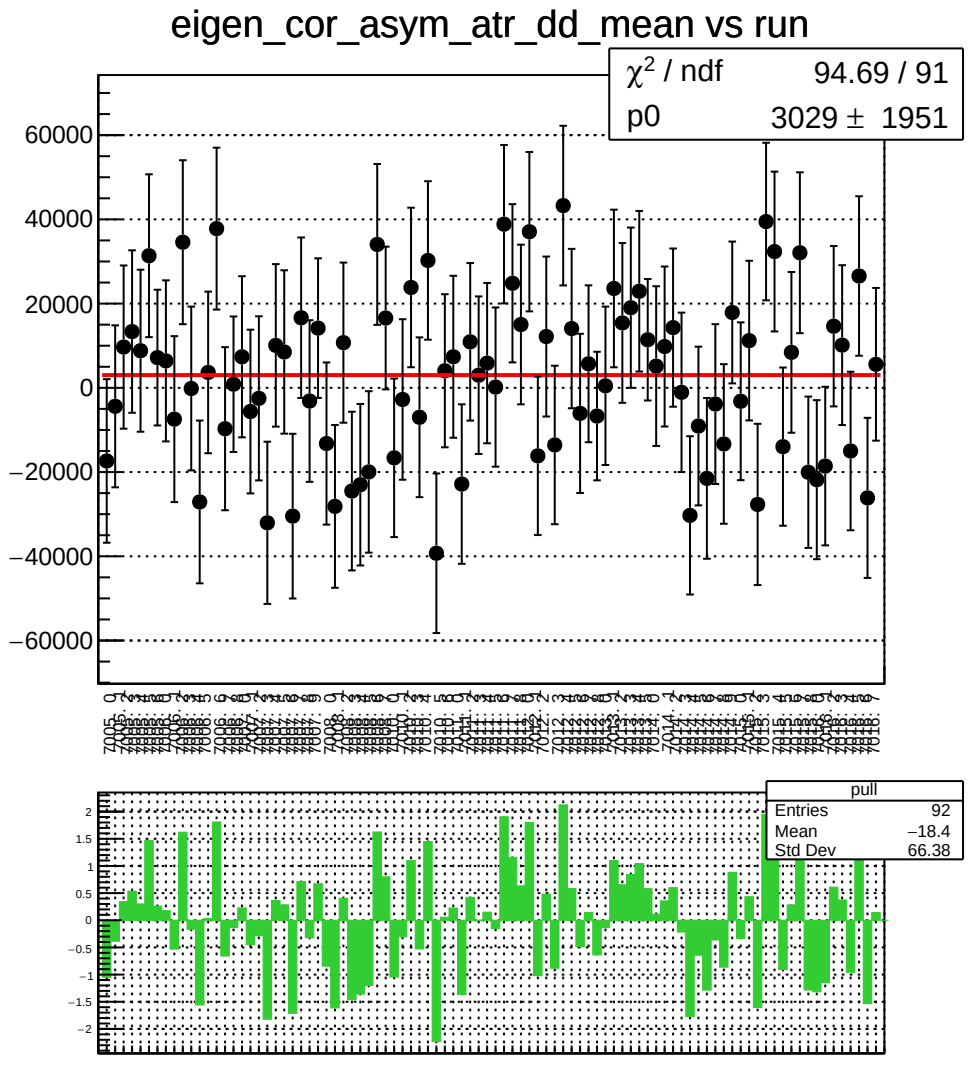

pull1D
Entries 92
Mean −0.004588
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

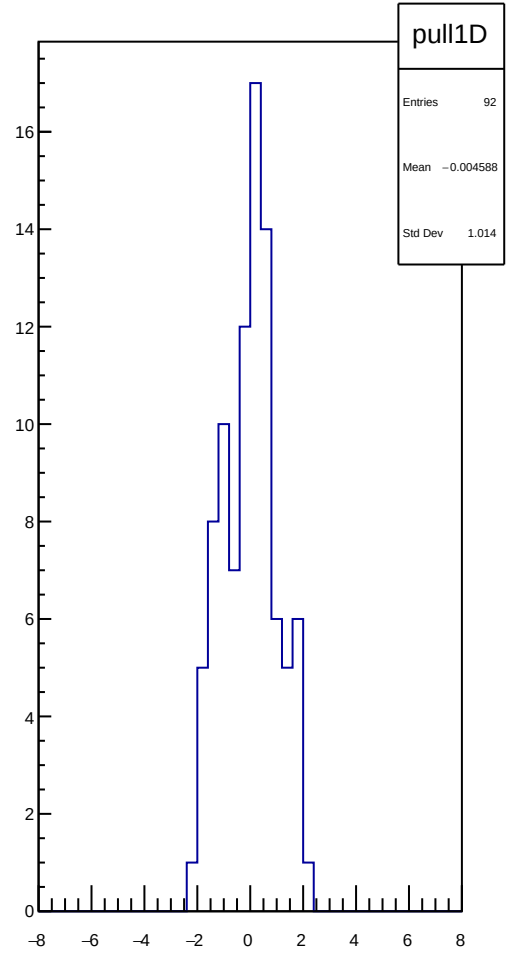

cor_asym_atr_dd_rms vs run
χ² / ndf 257 / 91
p0 1806 ± 1.379
1880
1860
1840
1820
1800
1780
1760

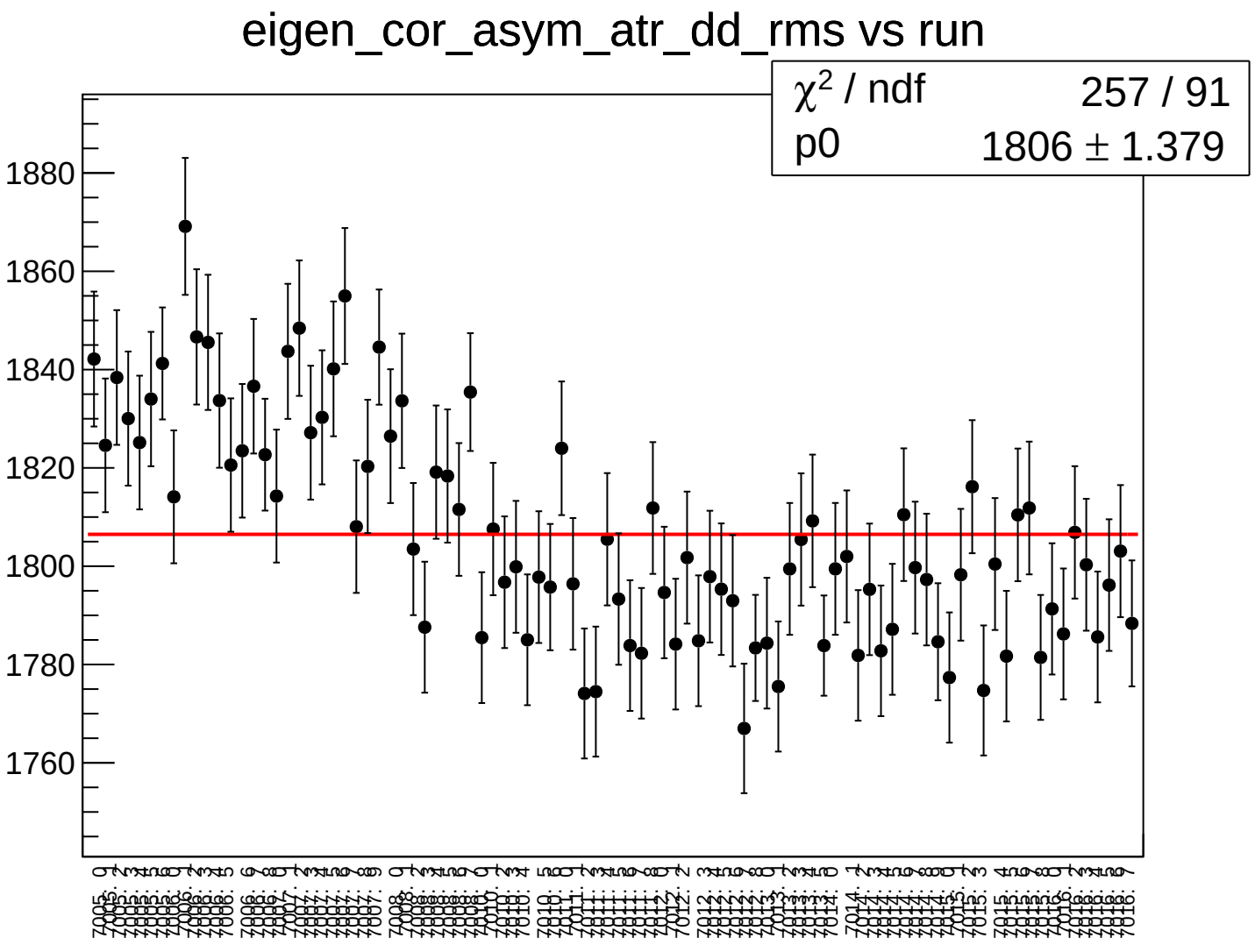

asym_atr_dd_cor_correction_mean vs run
χ² / ndf 85.93 / 91
p0 1.091e+04 ± 4320
×10³
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 216.4
Std Dev 0
2
1
0
−1
−2

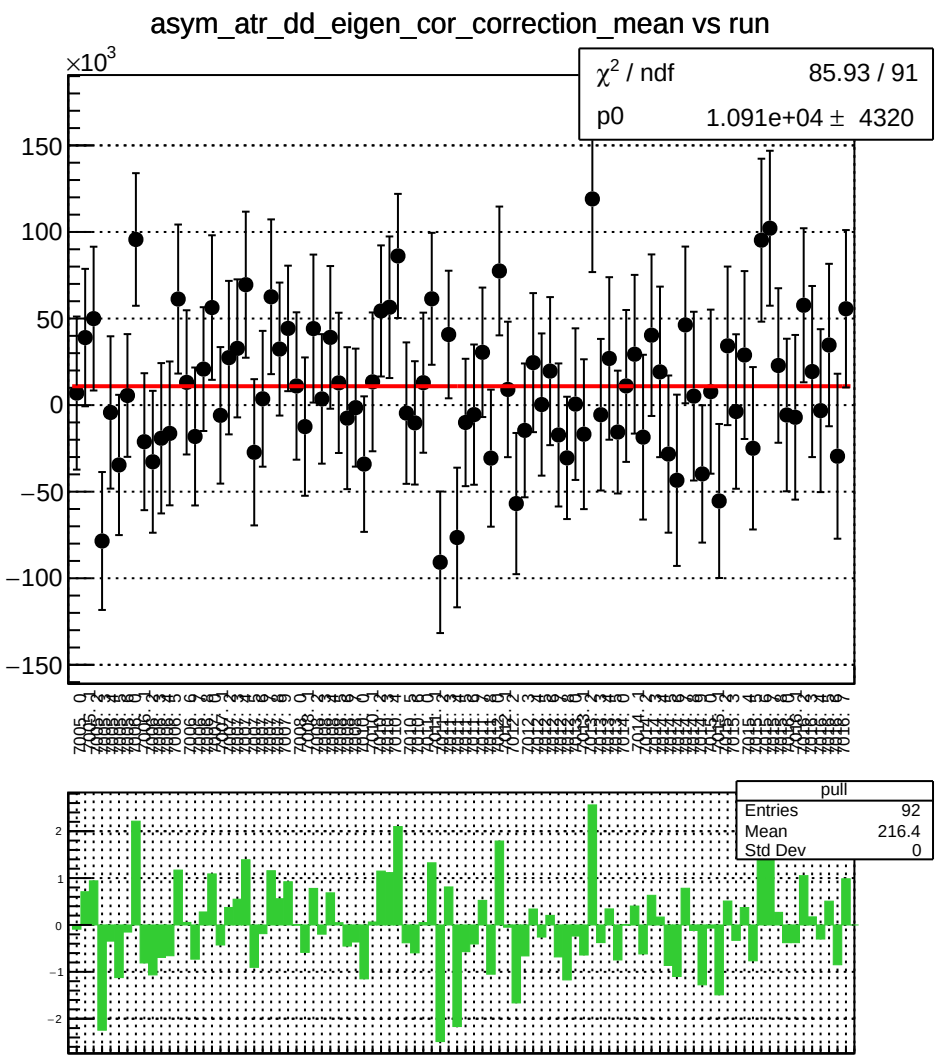

pull1D
Entries 92
Mean 0.001663
Std Dev 0.9665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

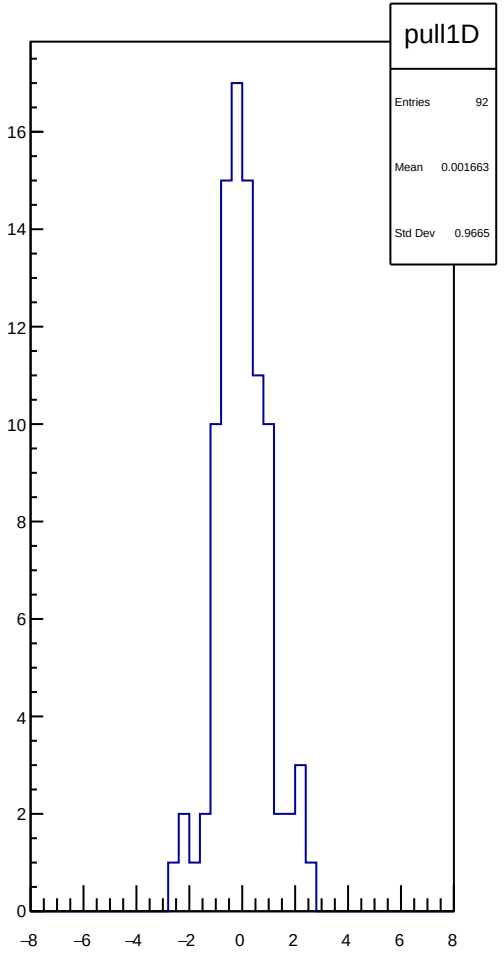

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.042e+04 / 91
p0 3989 ± 3.055
4800
4600
4400
4200
4000
3800
3600
3400

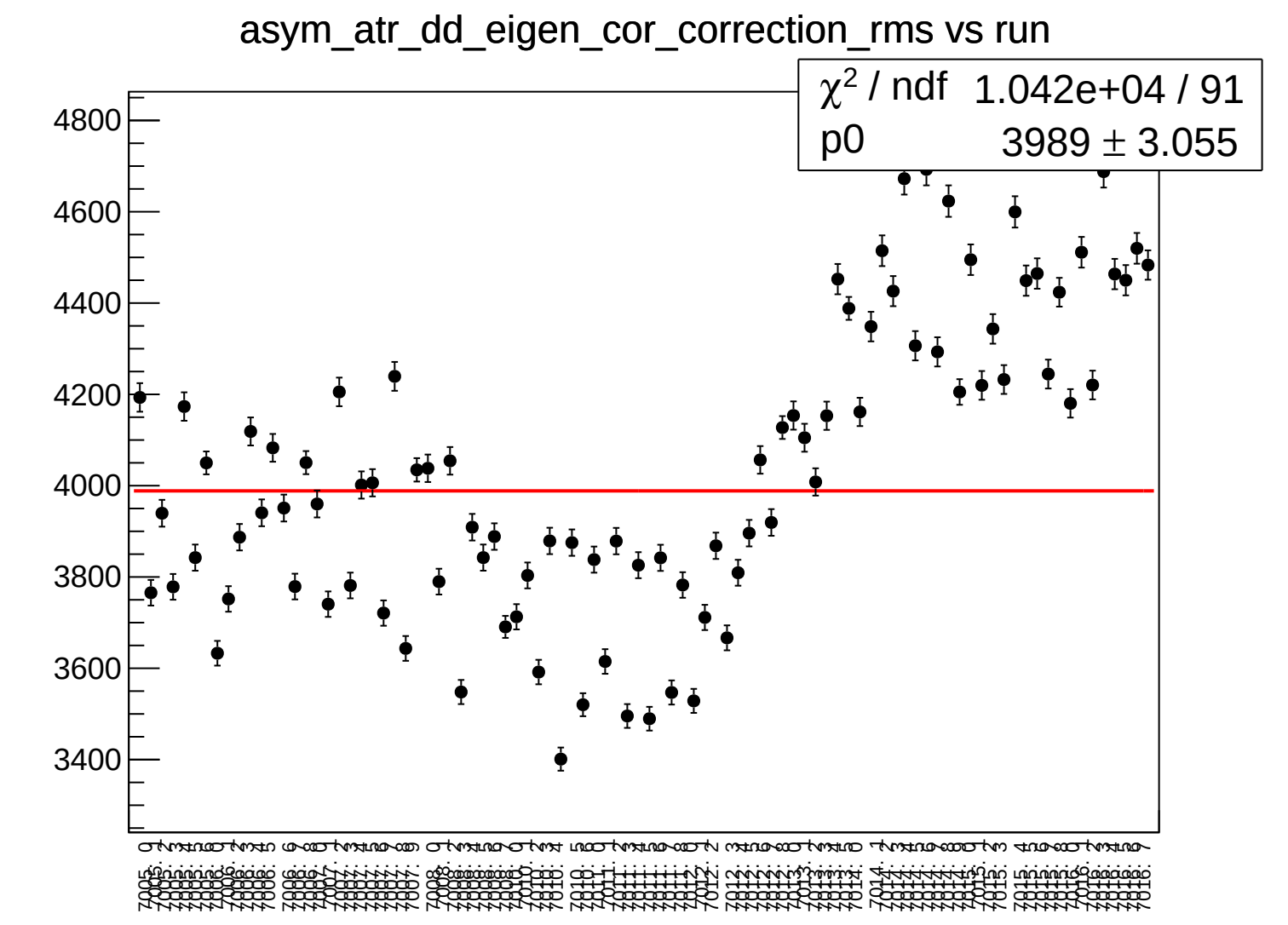

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 94.69 / 91
p0 3029 ± 1951
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −18.4
Std Dev 66.38
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

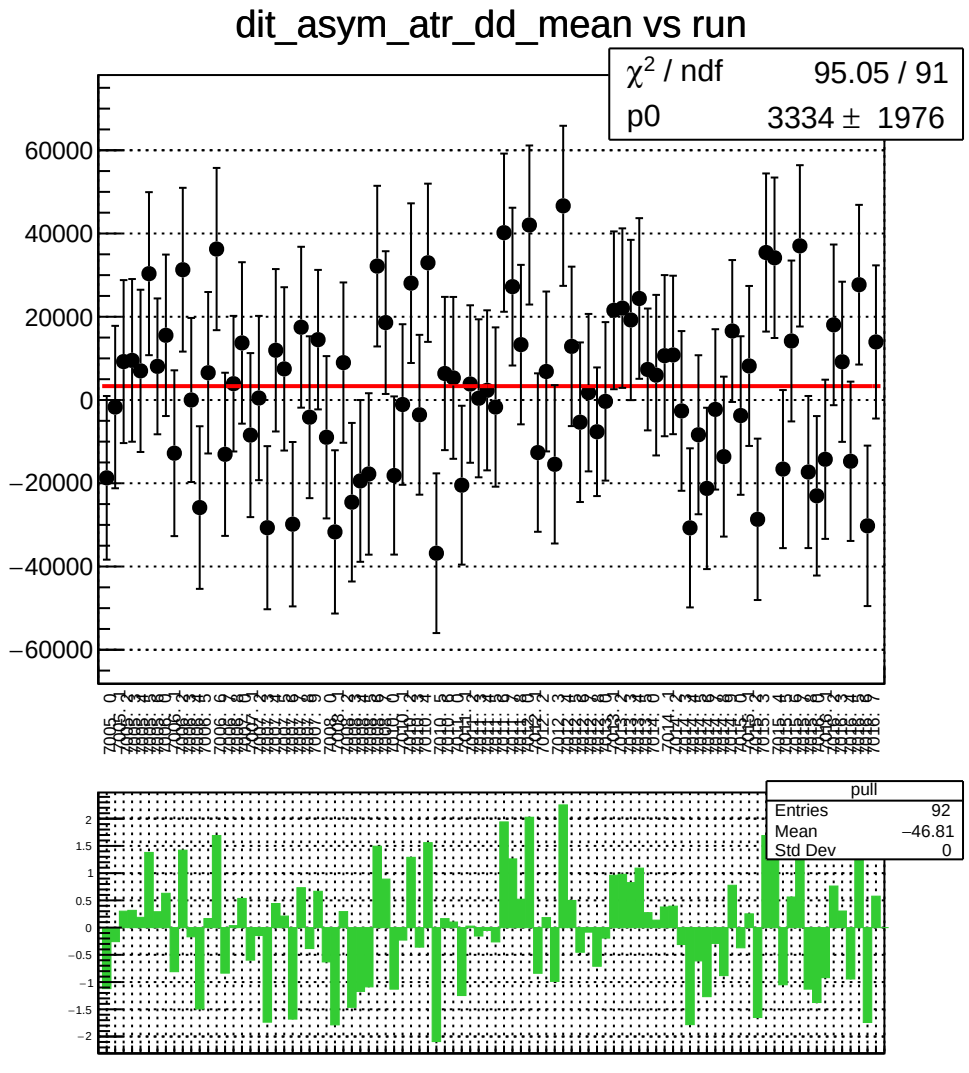

pull1D
Entries 92
Mean −0.004588
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

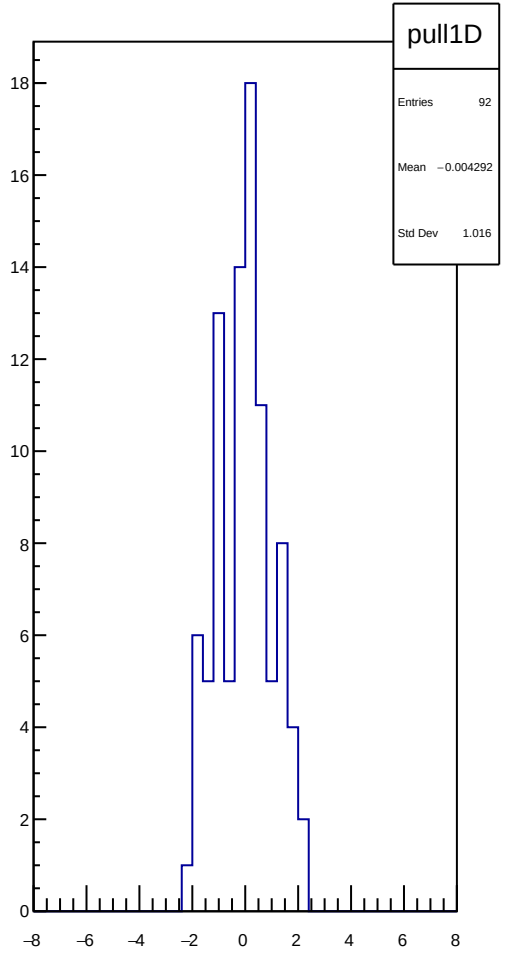

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 257 / 91
p0 1806 ± 1.379
1880
1860
1840
1820
1800
1780
1760

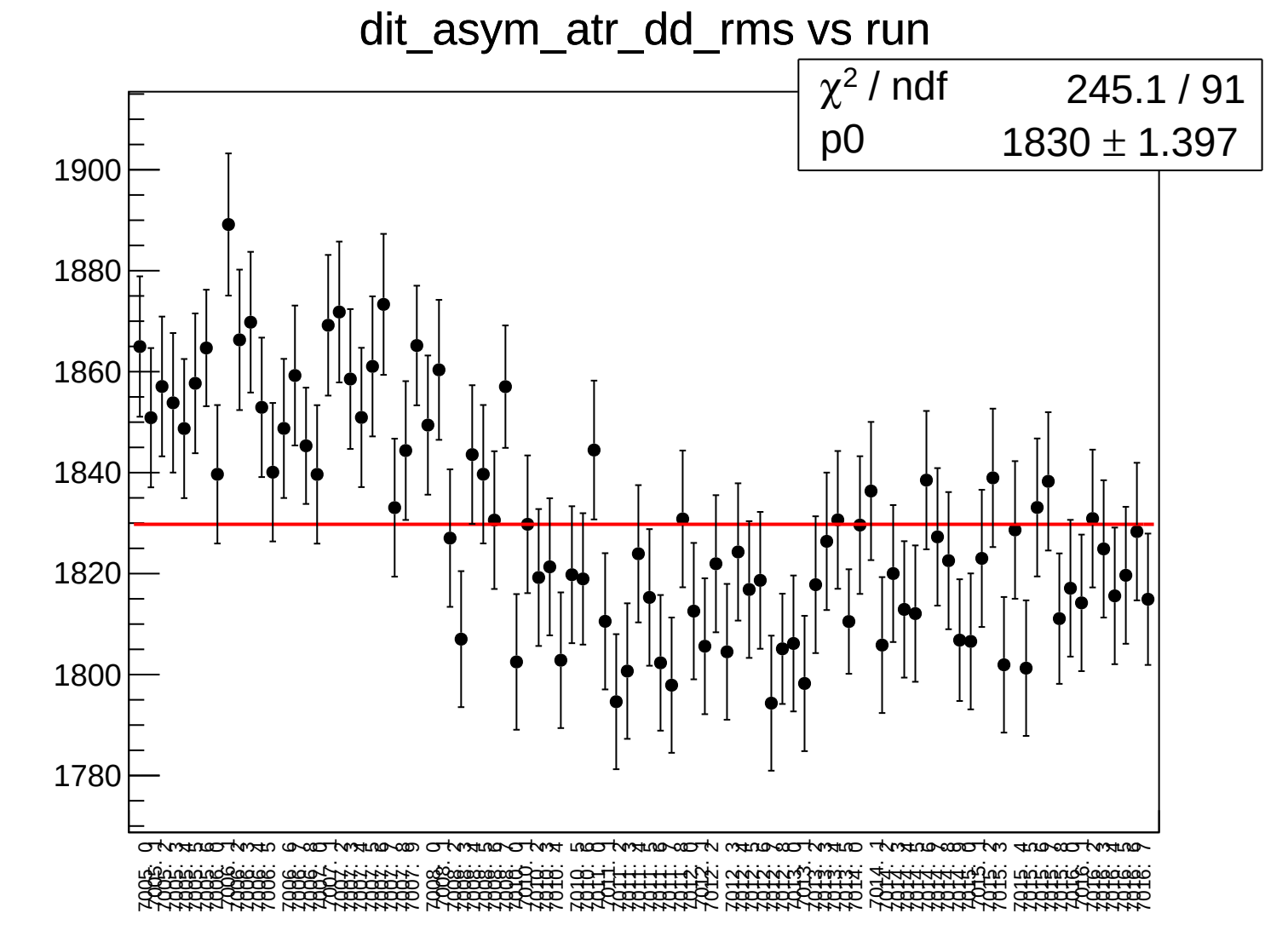

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.93 / 91
p0 1.091e+04 ± 4320
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 216.4
Std Dev 0
2
1
0
−1
−2

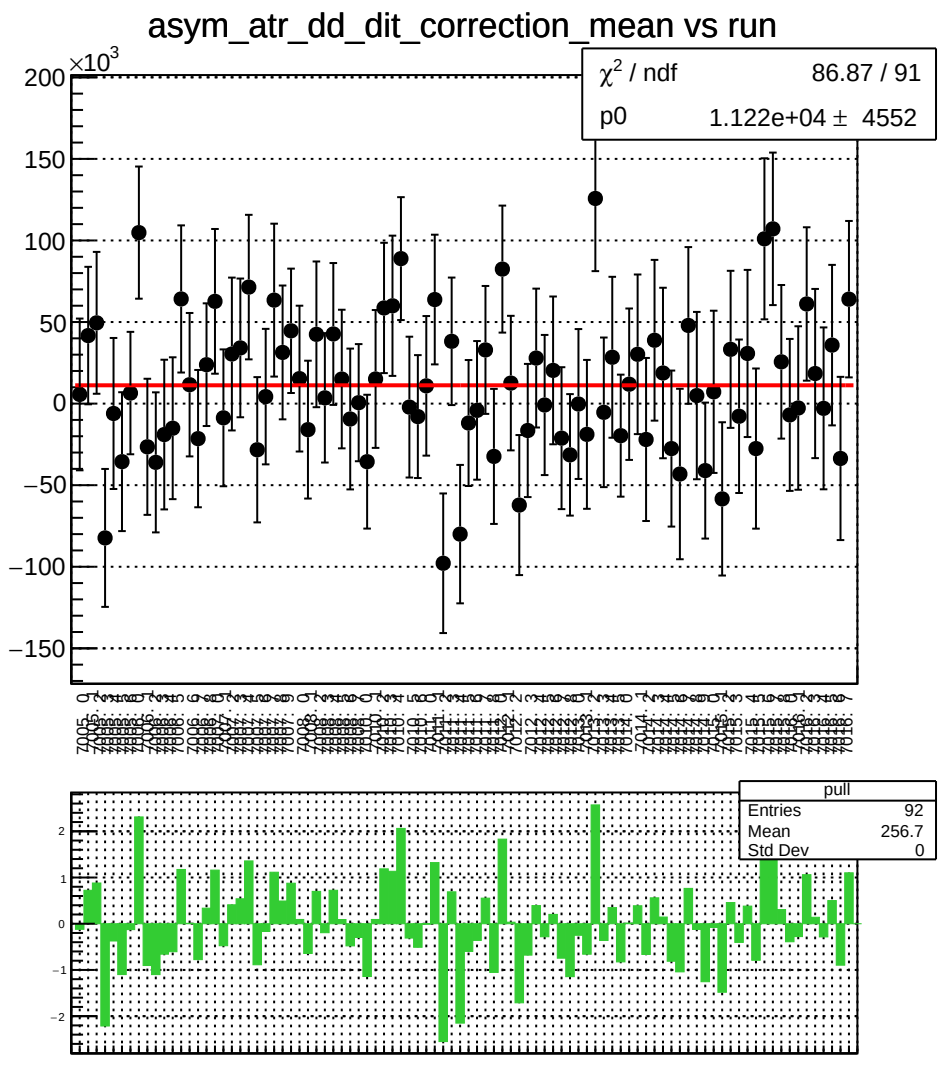

pull1D
Entries 92
Mean 0.001663
Std Dev 0.9665
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

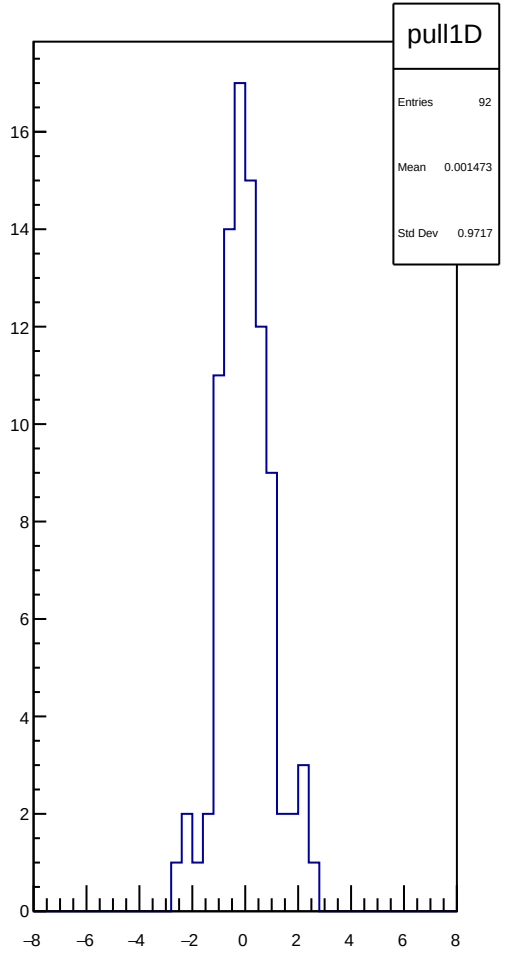

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.042e+04 / 91
p0 3989 ± 3.055
4800
4600
4400
4200
4000
3800
3600
3400

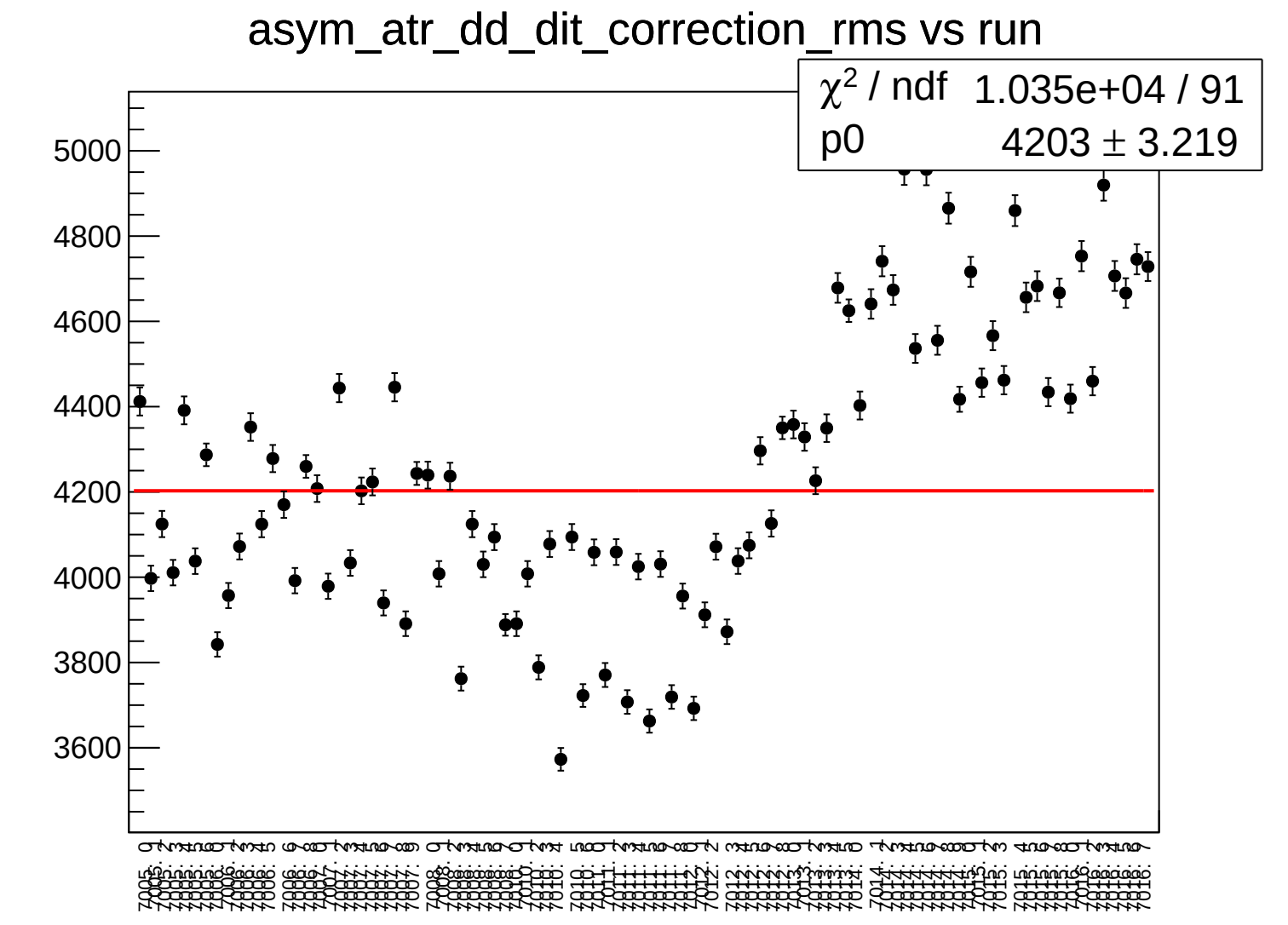

dit_asym_atr_dd_mean vs run
χ² / ndf 95.05 / 91
p0 3334 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −46.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

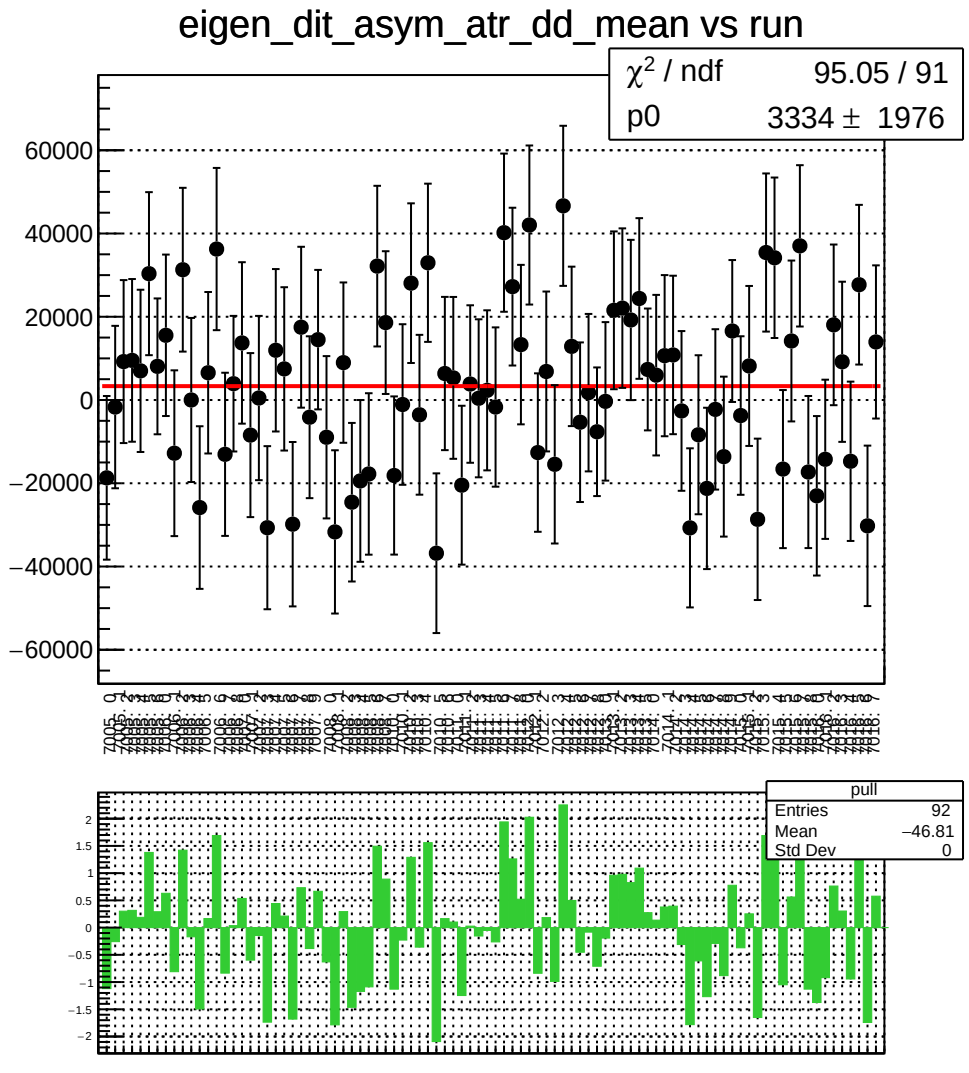

pull1D
Entries 92
Mean −0.004292
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

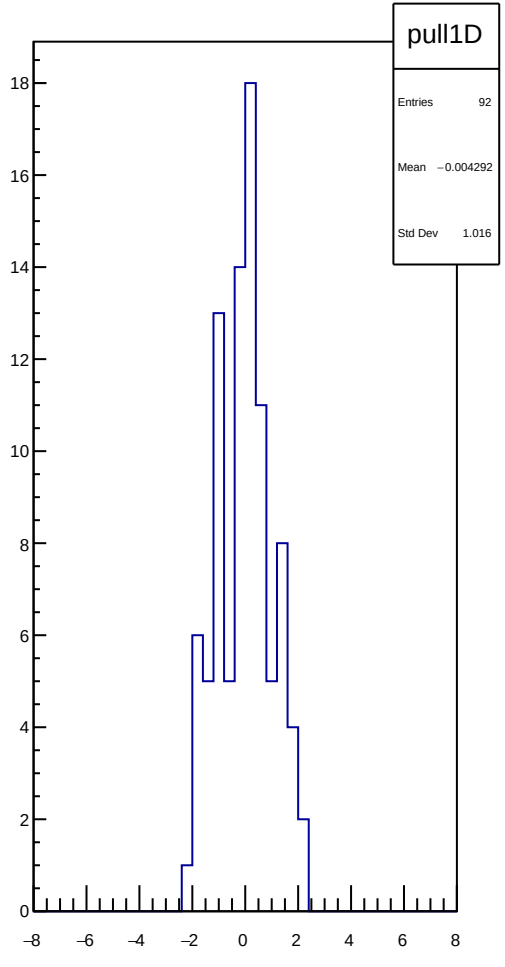

dit_asym_atr_dd_rms vs run
χ² / ndf 245.1 / 91
p0 1830 ± 1.397
1900
1880
1860
1840
1820
1800
1780

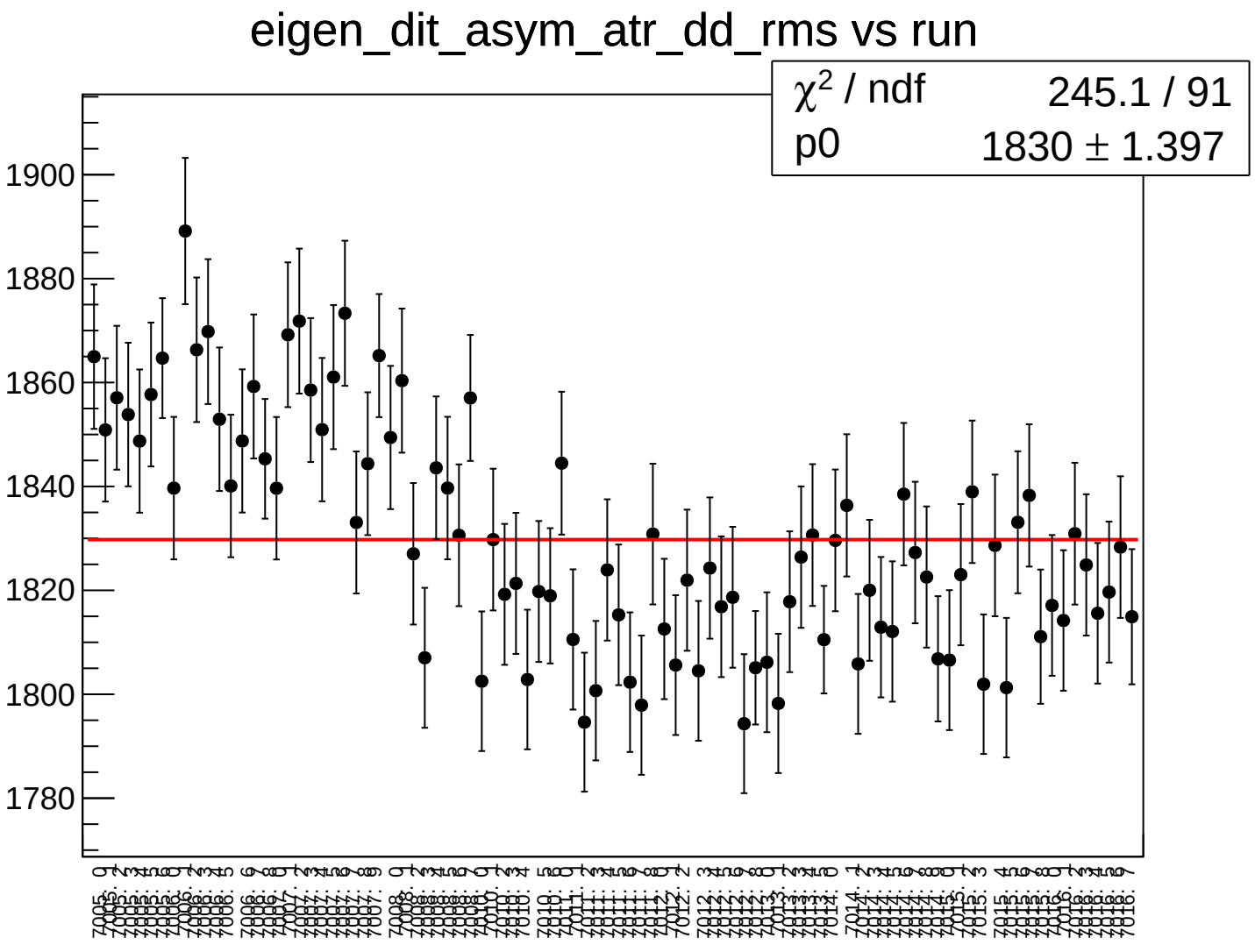

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.87 / 91
p0 1.122e+04 ± 4552
pull
Entries 92
Mean 256.7
Std Dev 0

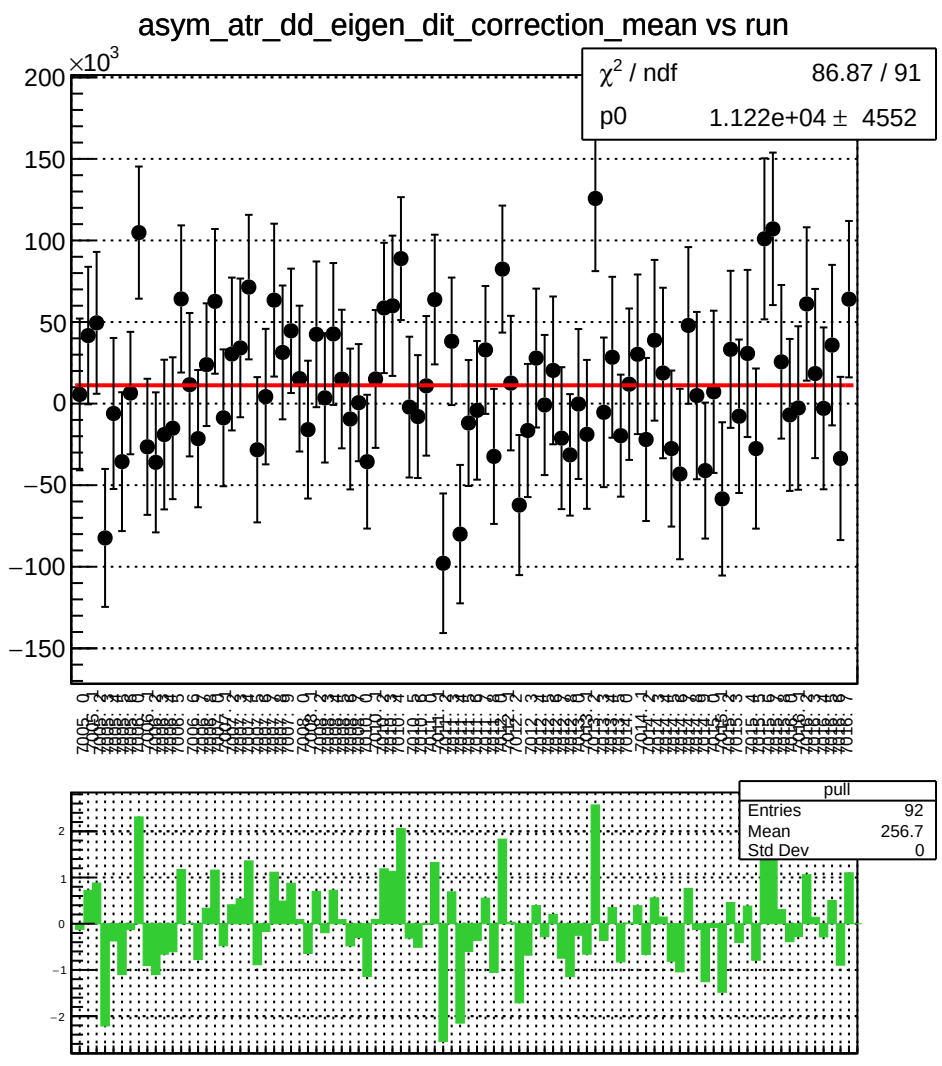

pull1D
Entries 92
Mean 0.001473
Std Dev 0.9717

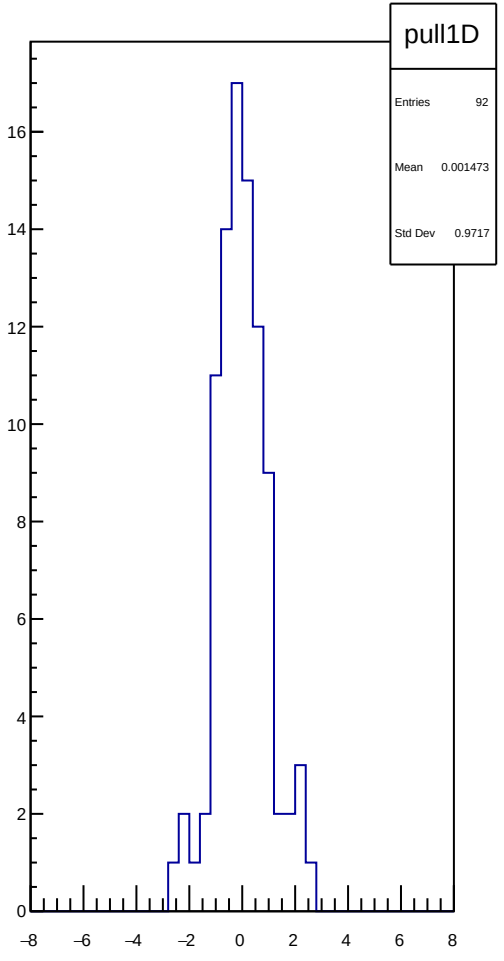

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1.035e+04 / 91
p0 4203 ± 3.219
5000
4800
4600
4400
4200
4000
3800
3600

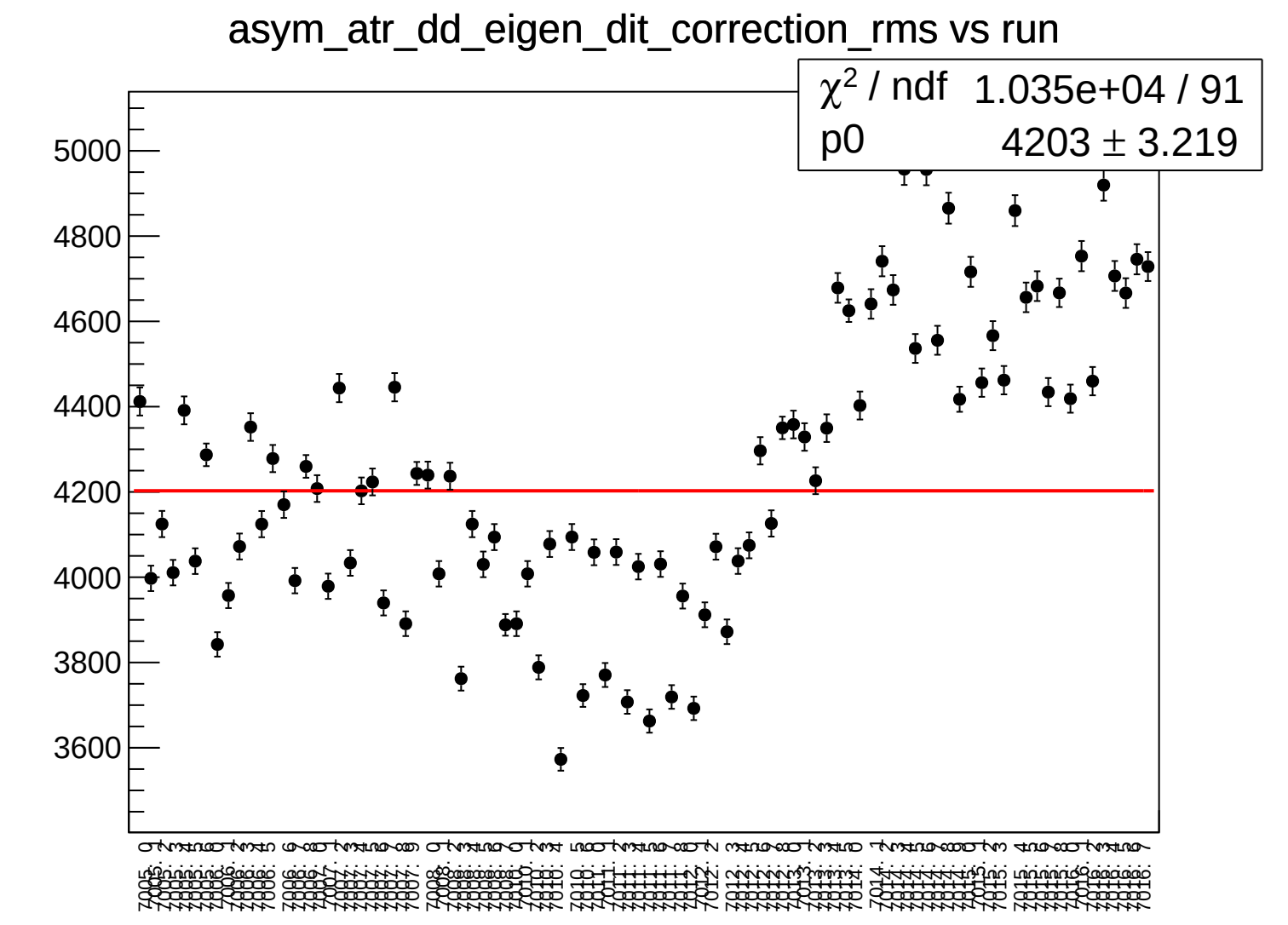

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 95.05 / 91
p0 3334 ± 1976
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −46.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

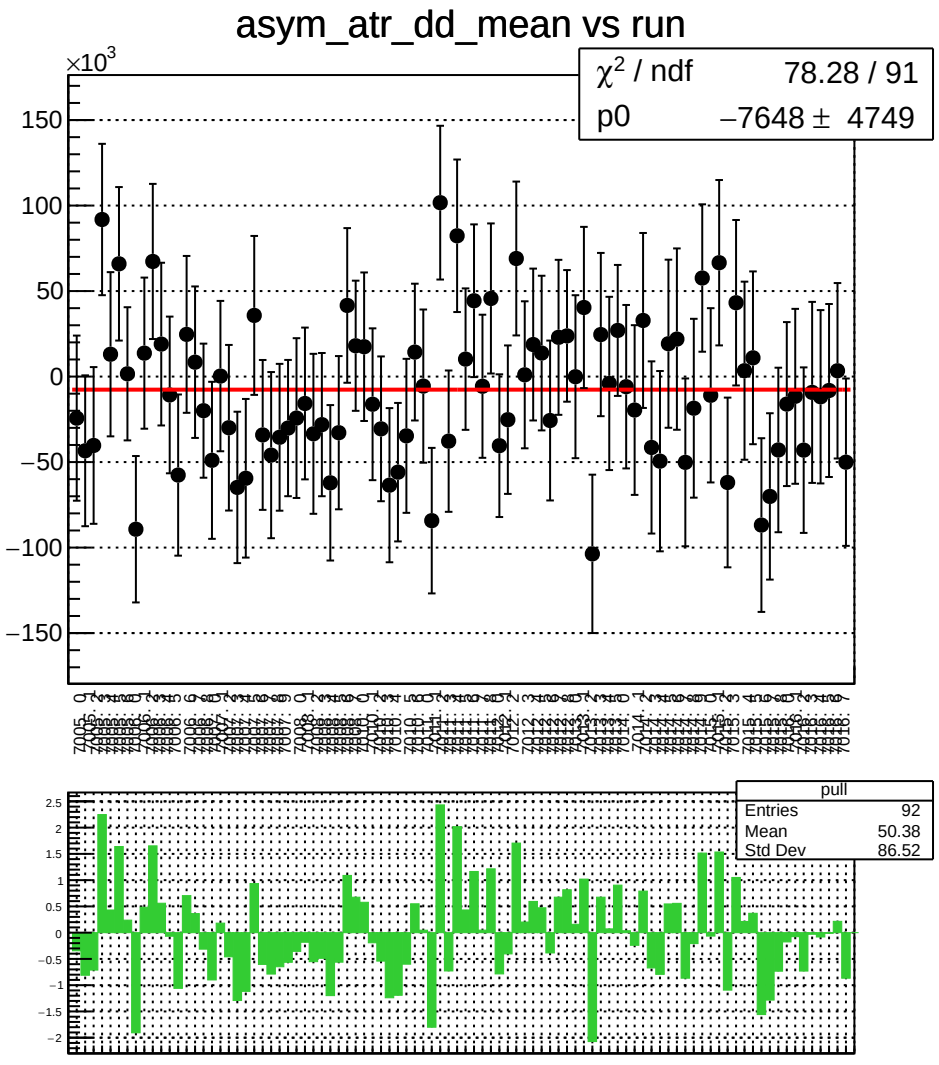

pull1D
Entries 92
Mean −0.004292
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

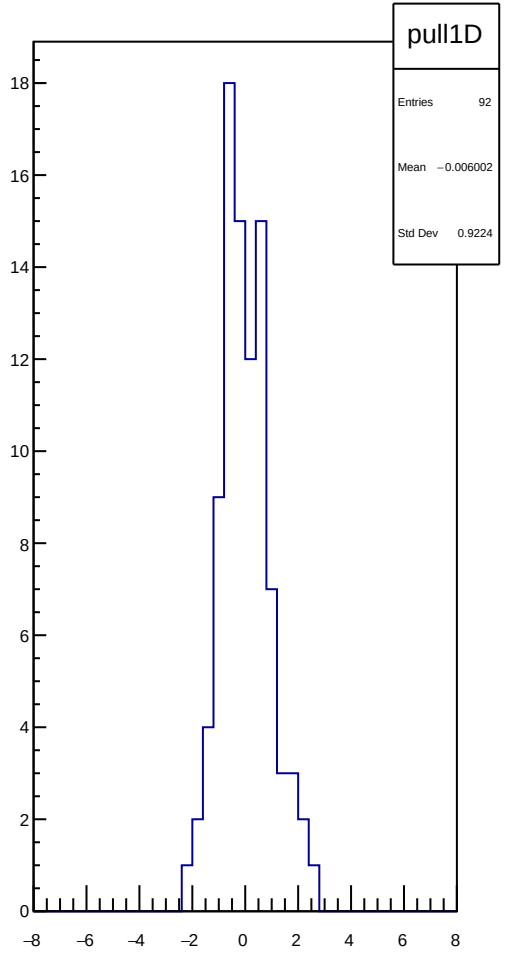

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 245.1 / 91
p0 1830 ± 1.397
1900
1880
1860
1840
1820
1800
1780

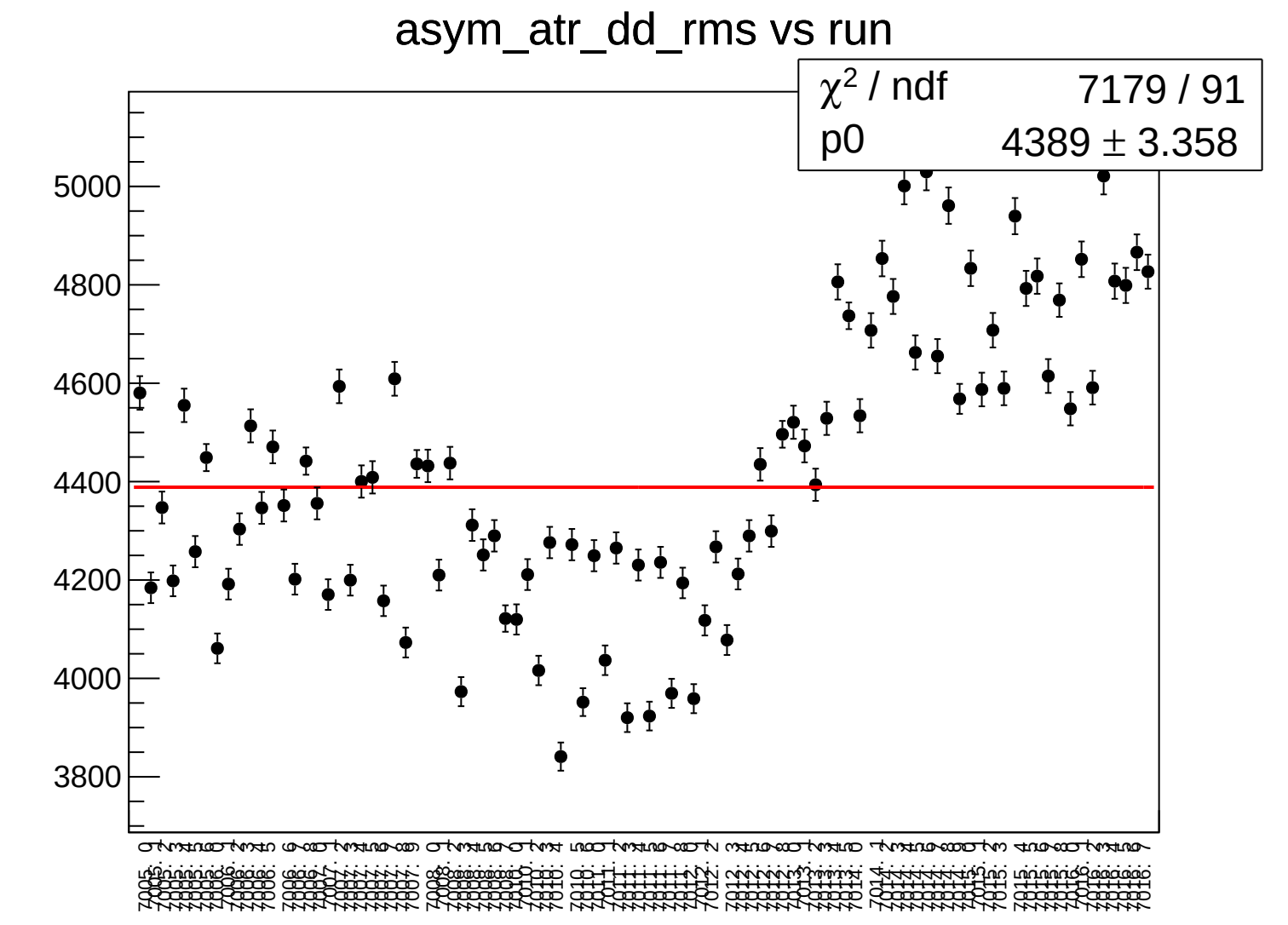

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.87 / 91
p0 1.122e+04 ± 4552
pull
Entries 92
Mean 256.7
Std Dev 0

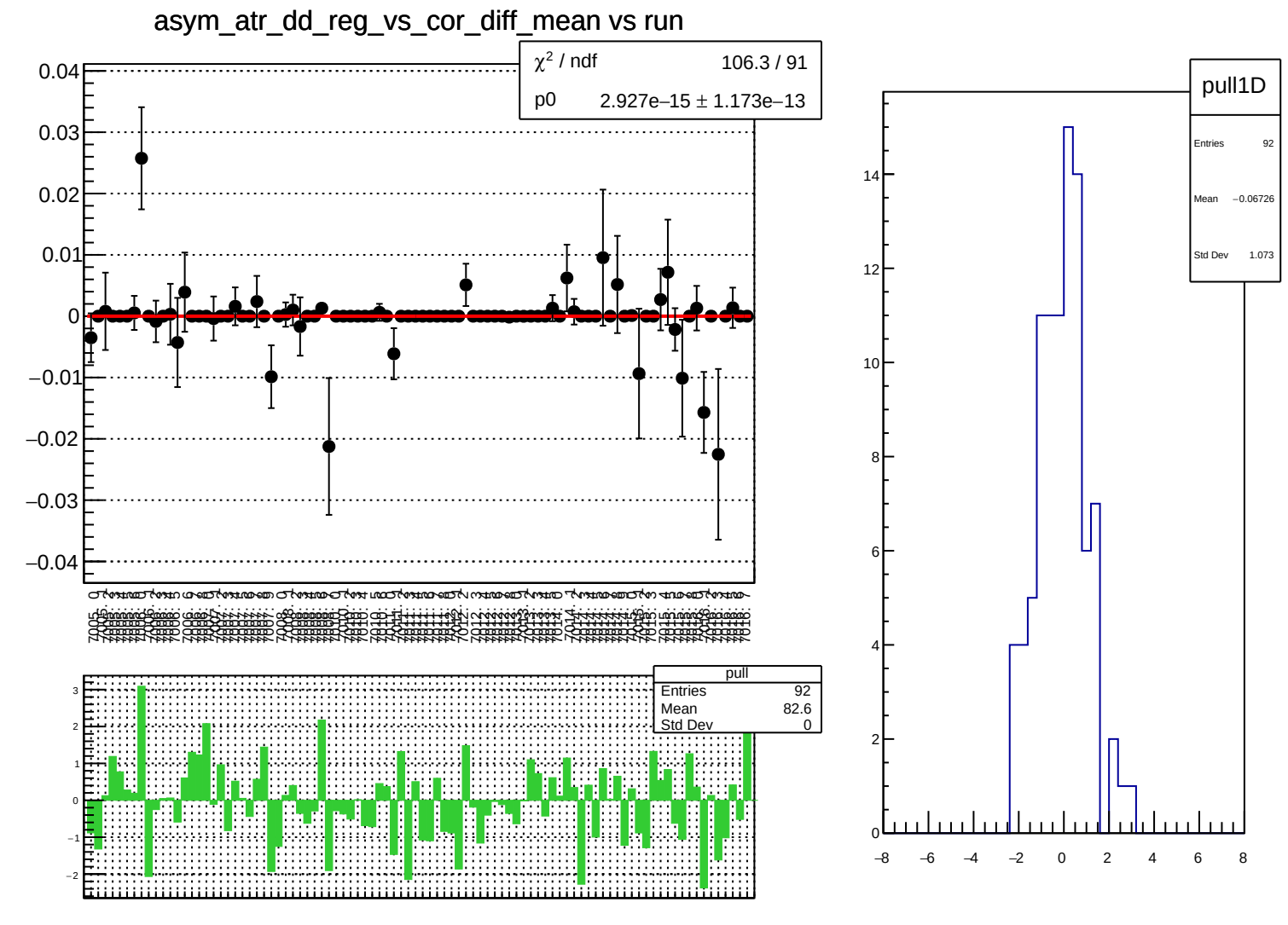

pull1D
Entries 92
Mean 0.001473
Std Dev 0.9717

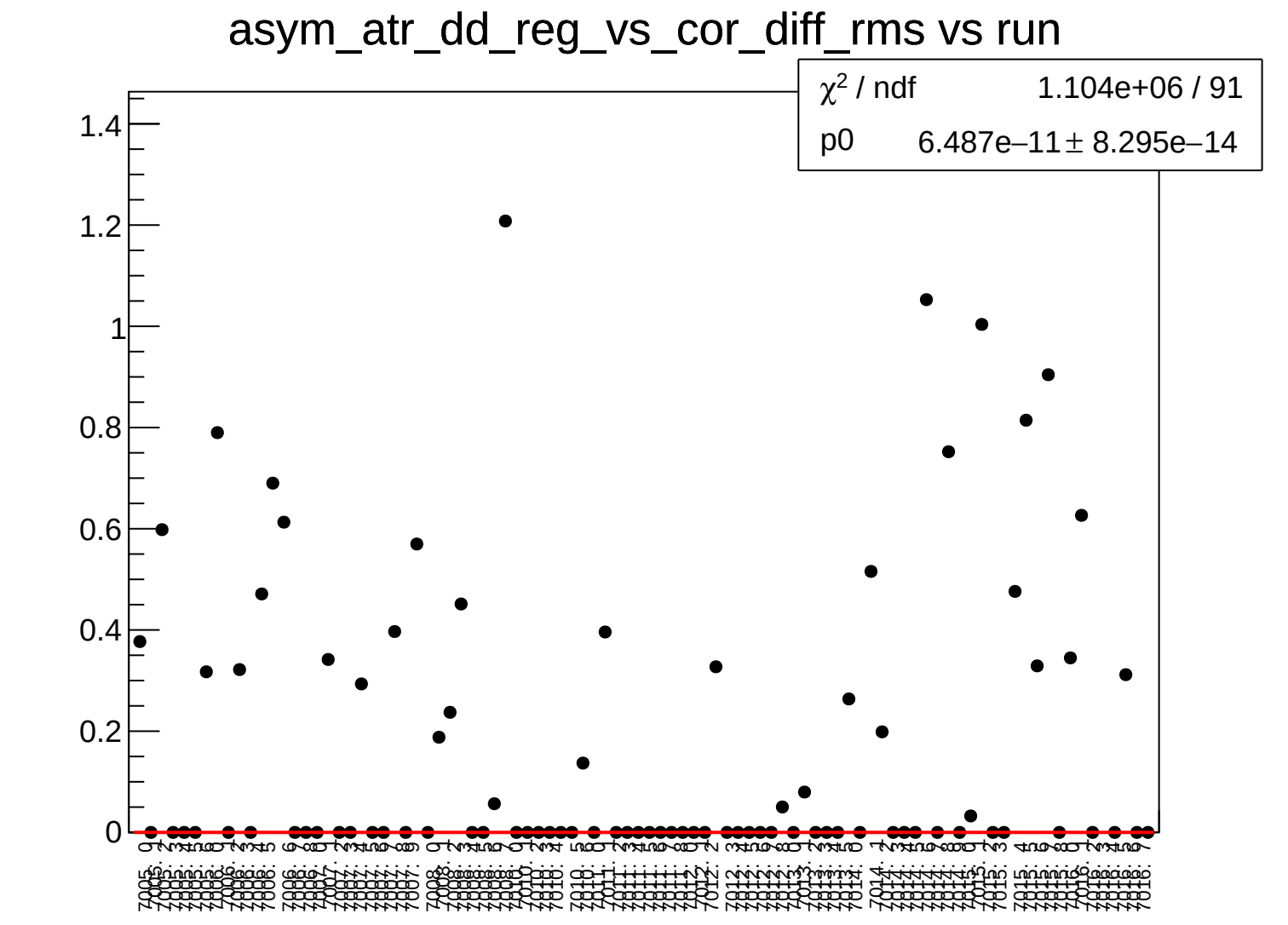

asym_atr_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1.035e+04 / 91
p0 4203 ± 3.219
5000
4800
4600
4400
4200
4000
3800
3600

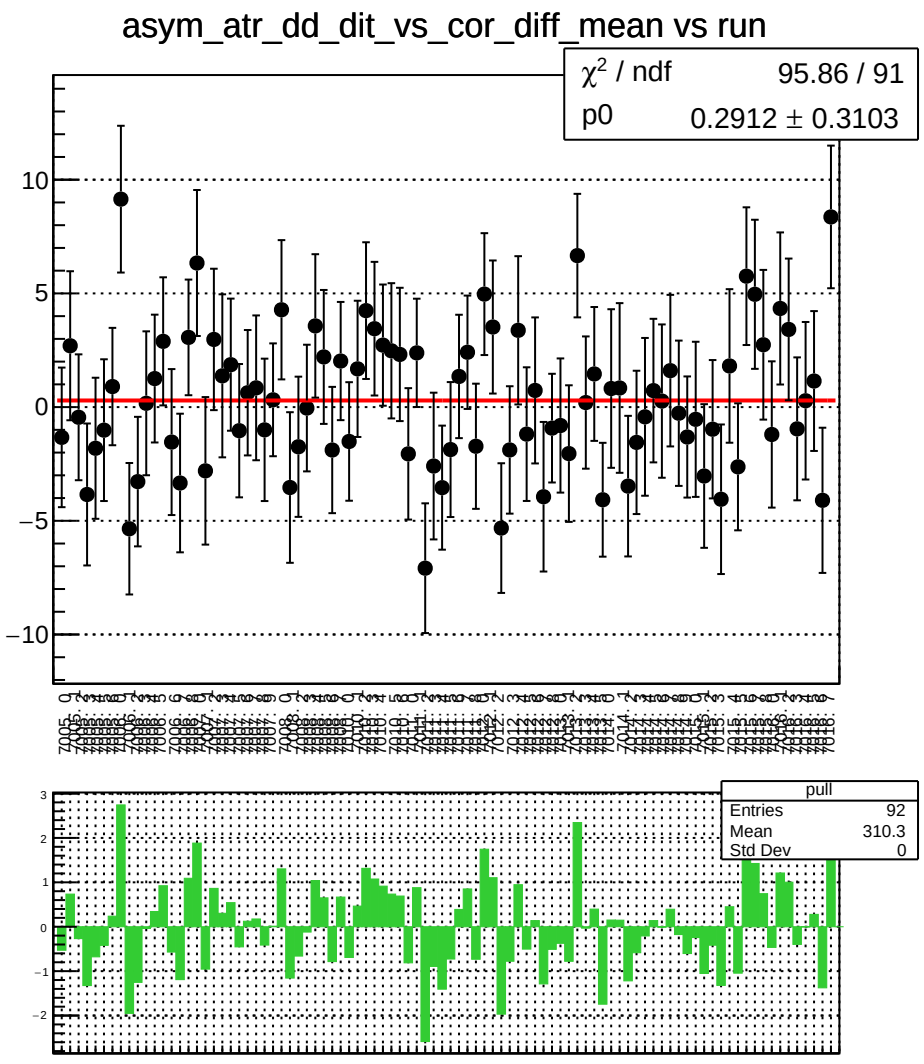

asym_atr_dd_mean vs run
×10^3
χ² / ndf 78.28 / 91
p0 −7648 ± 4749
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 50.38
Std Dev 86.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

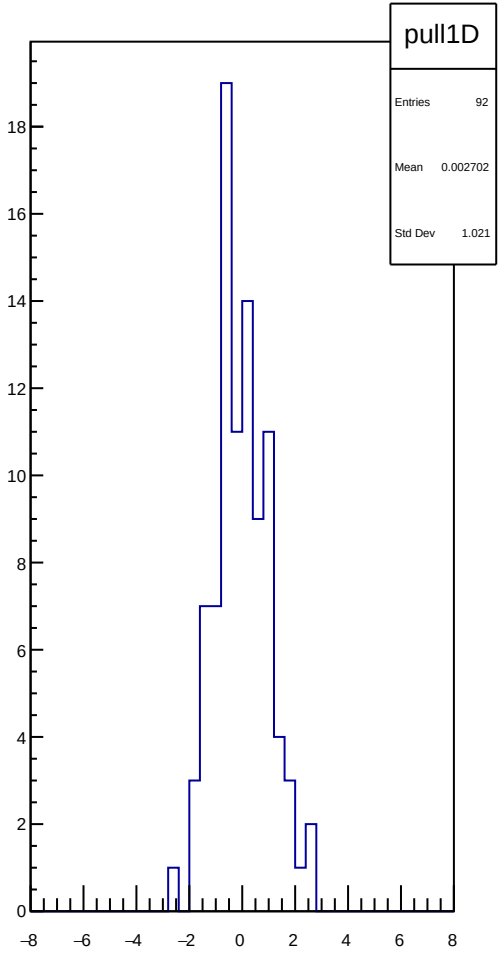

pull1D
Entries 92
Mean −0.006002
Std Dev 0.9224
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

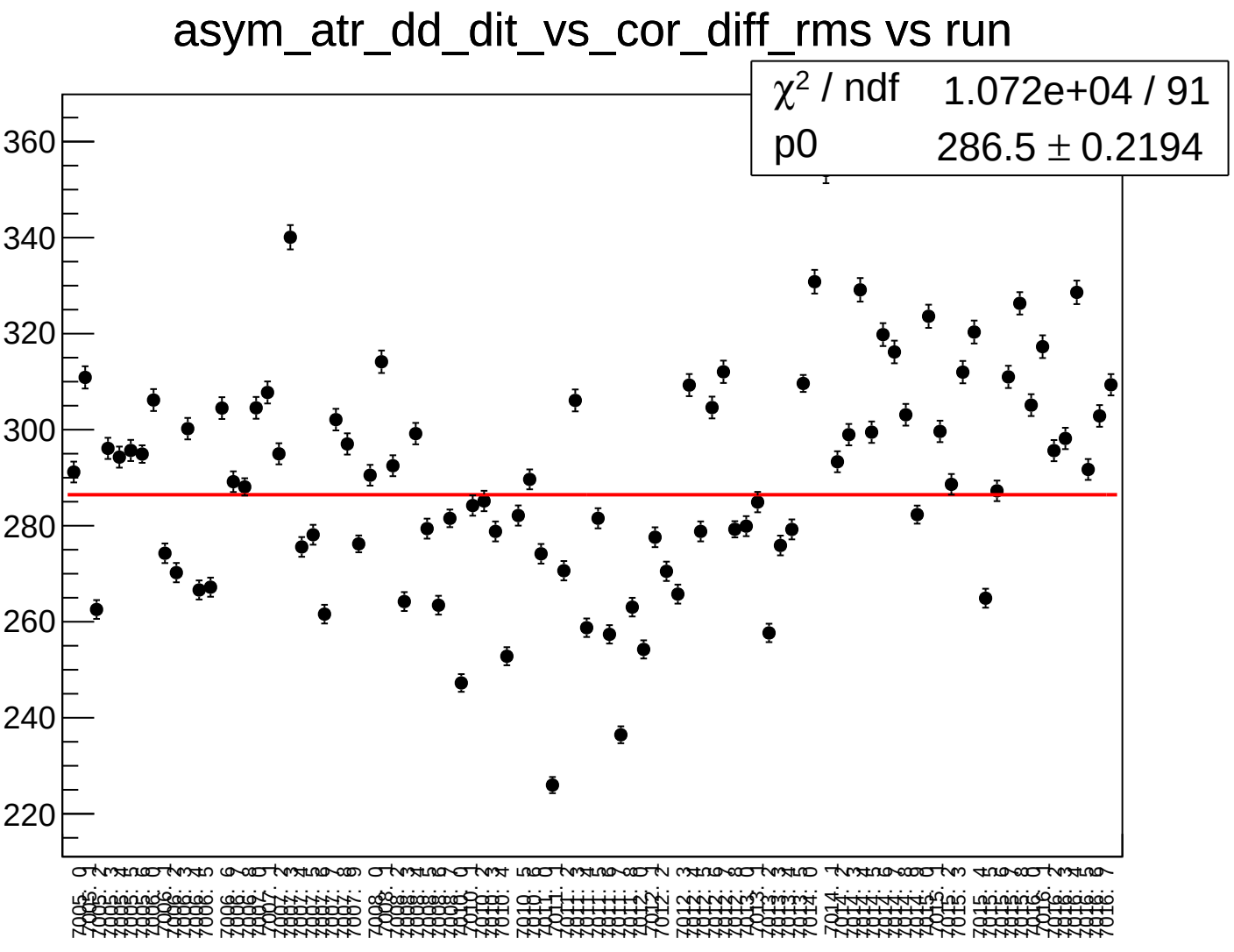

asym_atr_dd_rms vs run
χ² / ndf 7179 / 91
p0 4389 ± 3.358
5000
4800
4600
4400
4200
4000
3800

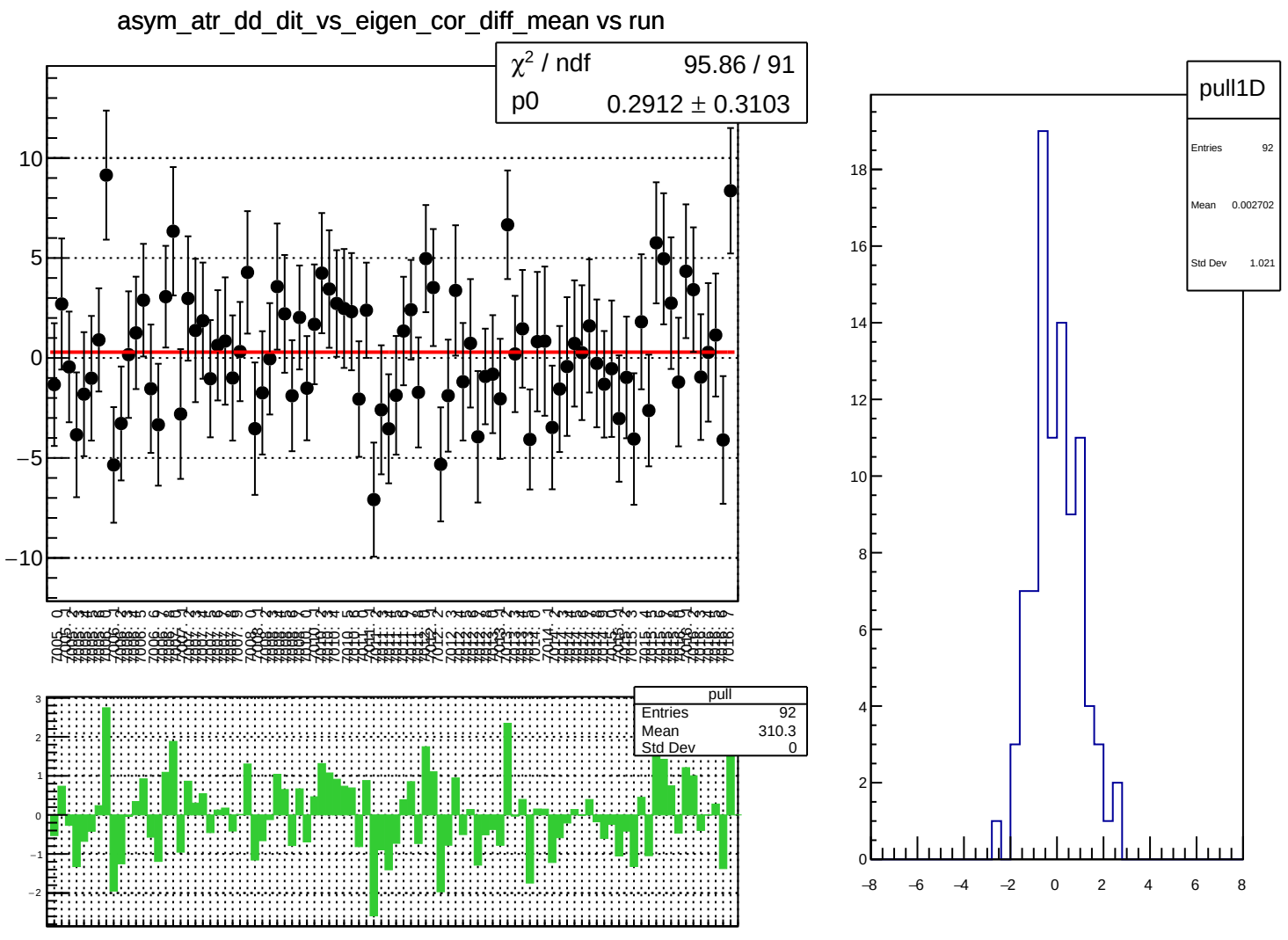

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 91
p0 2.927e−15 ± 1.173e−13
pull
Entries 92
Mean 82.6
Std Dev 0
pull1D
Entries 92
Mean −0.06726
Std Dev 1.073

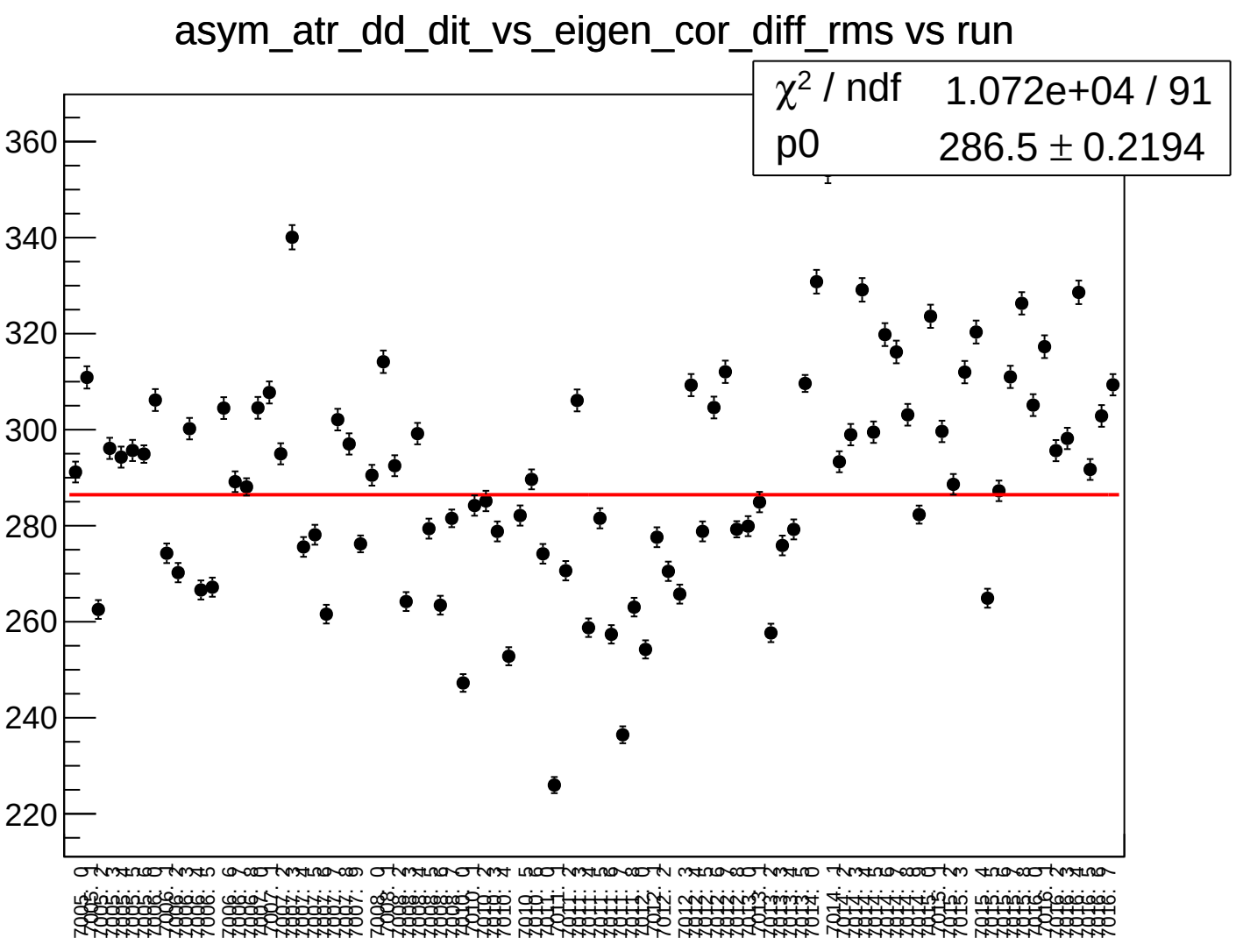

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.104e+06 / 91
p0 6.487e−11 ± 8.295e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

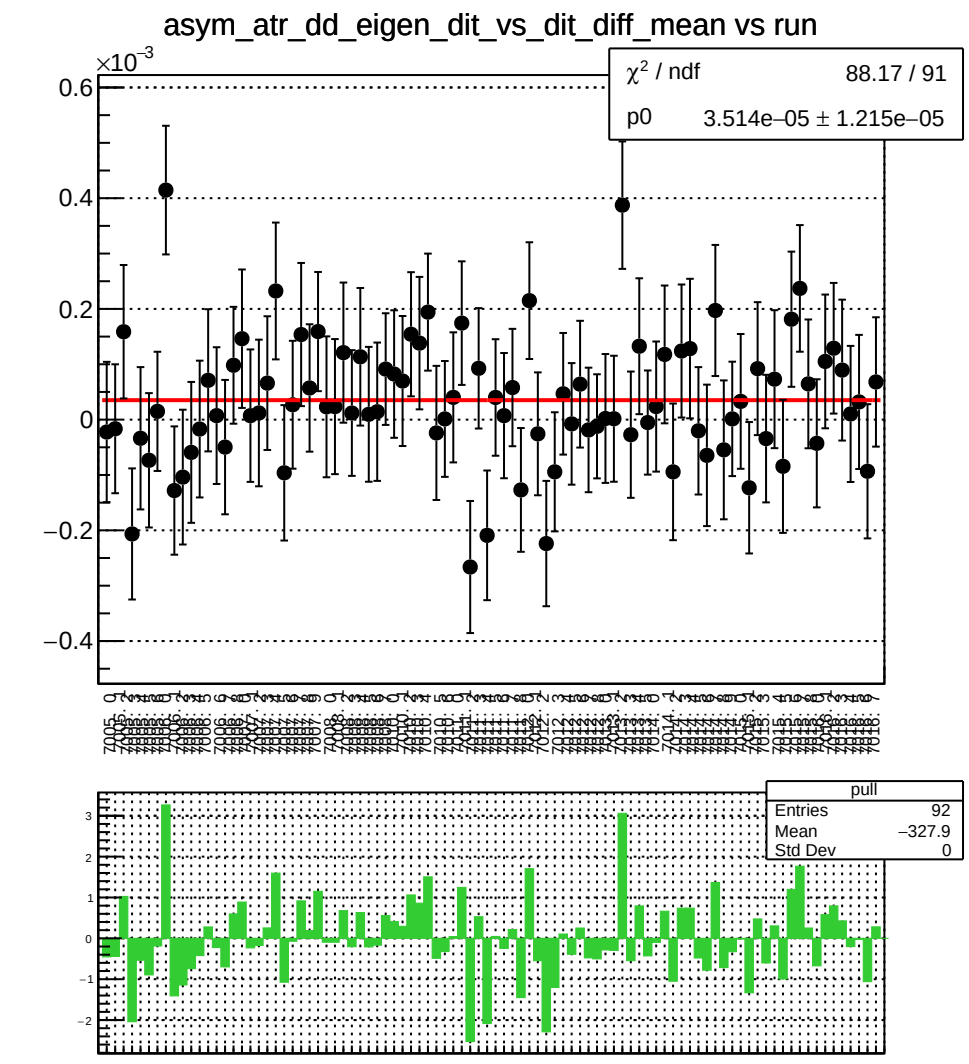

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.86 / 91
p0 0.2912 ± 0.3103
pull
Entries 92
Mean 310.3
Std Dev 0

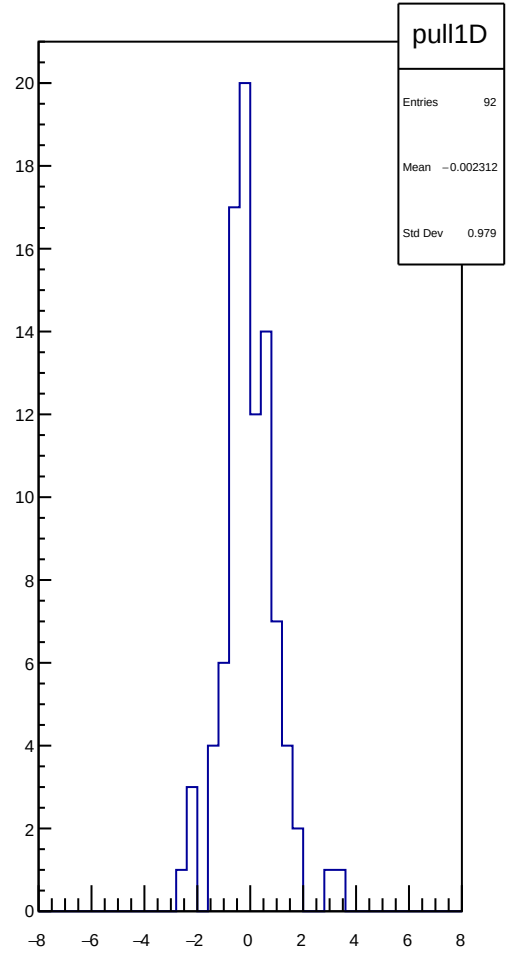

pull1D
Entries 92
Mean 0.002702
Std Dev 1.021

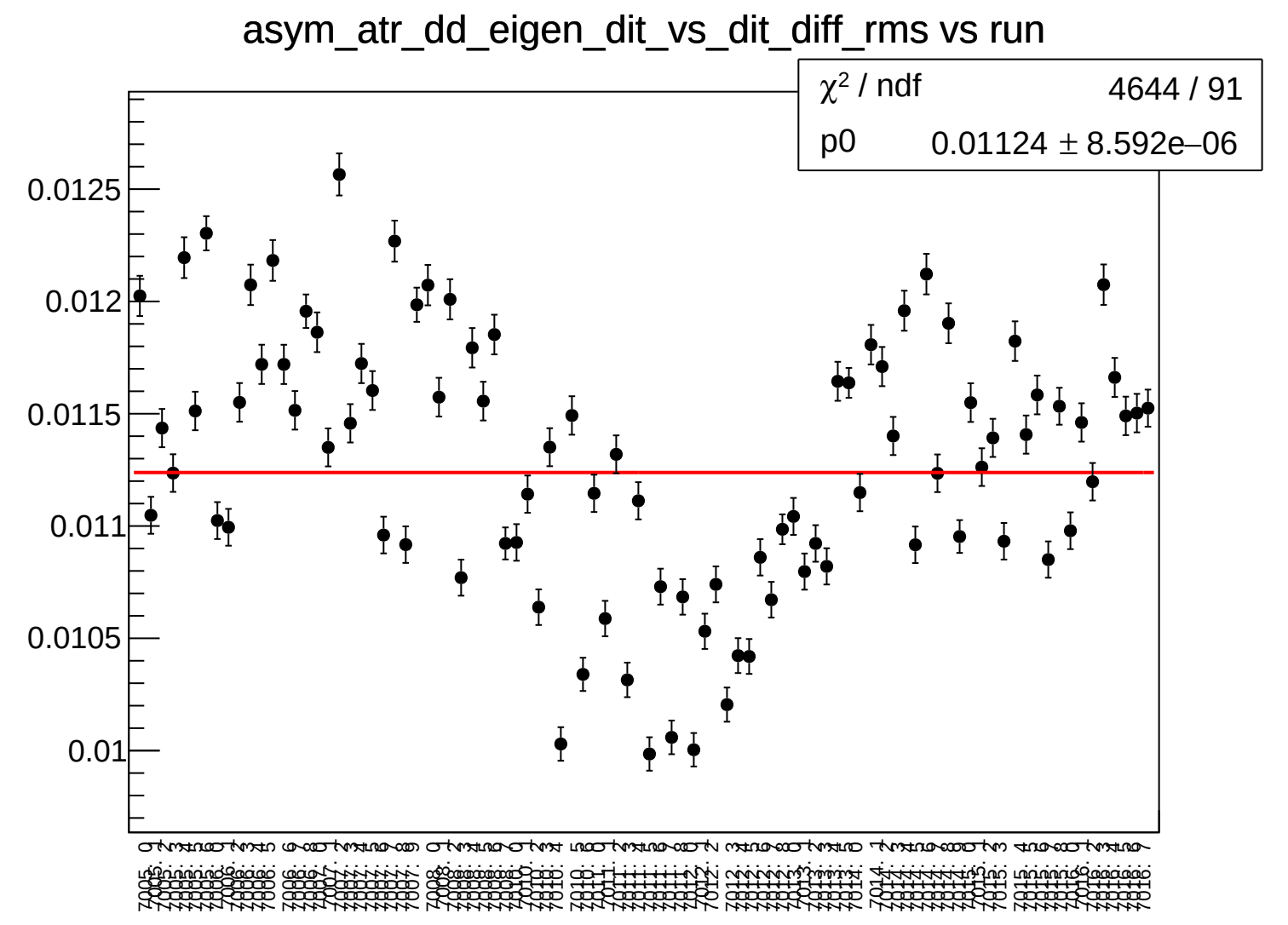

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.072e+04 / 91
p0 286.5 ± 0.2194
360
340
320
300
280
260
240
220

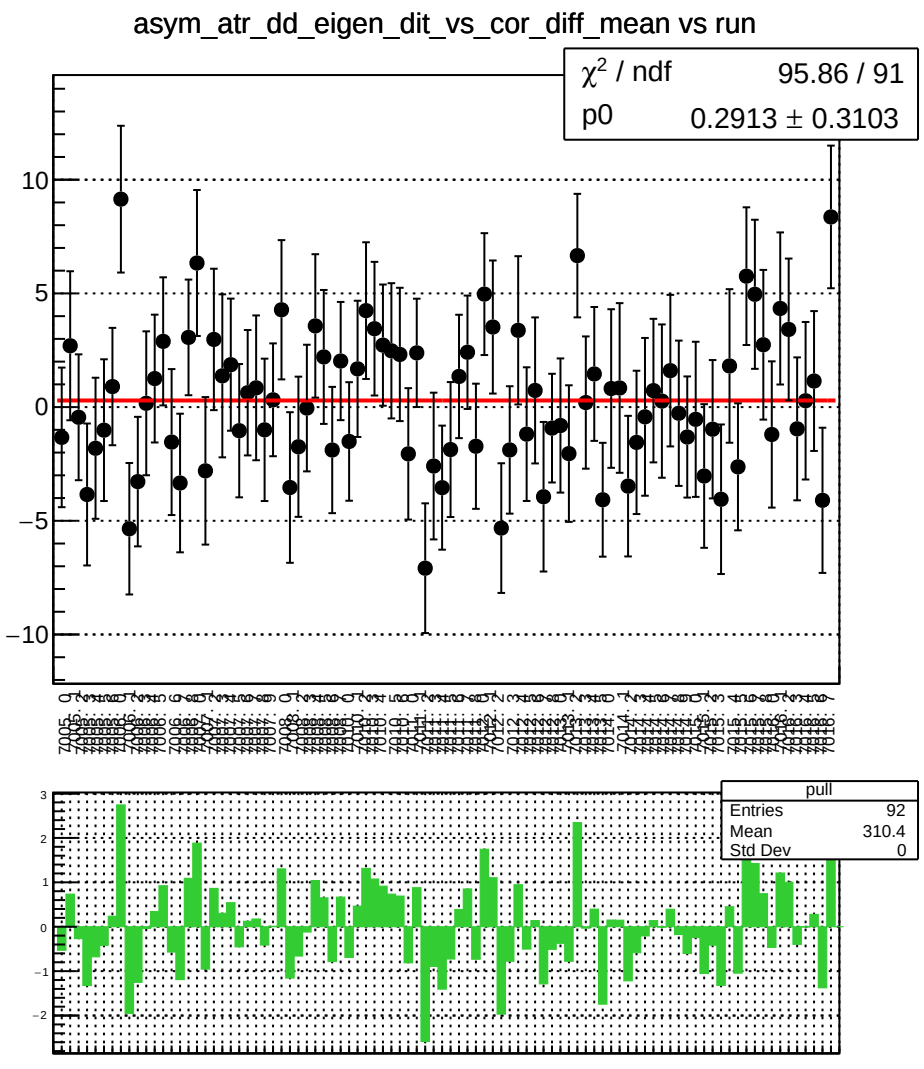

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.86 / 91
p0 0.2912 ± 0.3103
pull
Entries 92
Mean 310.3
Std Dev 0
pull1D
Entries 92
Mean 0.002702
Std Dev 1.021

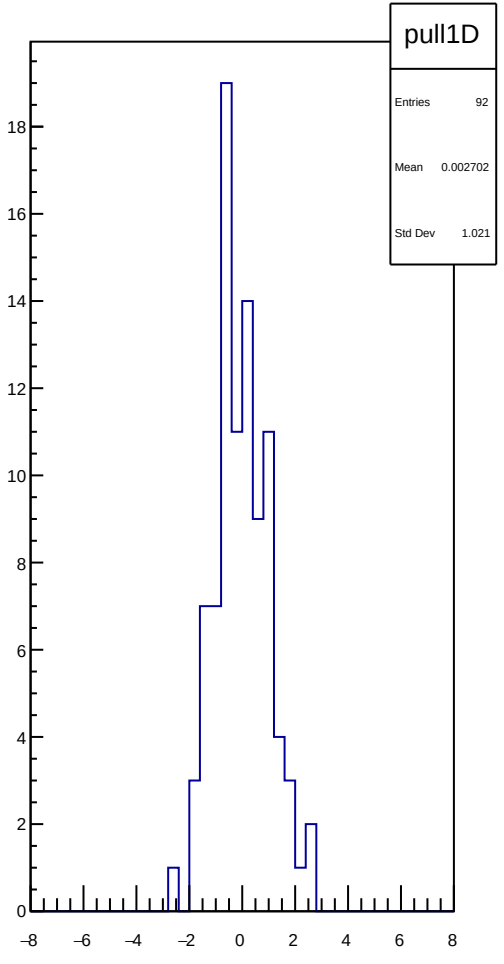

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.072e+04 / 91
p0 286.5 ± 0.2194
360
340
320
300
280
260
240
220

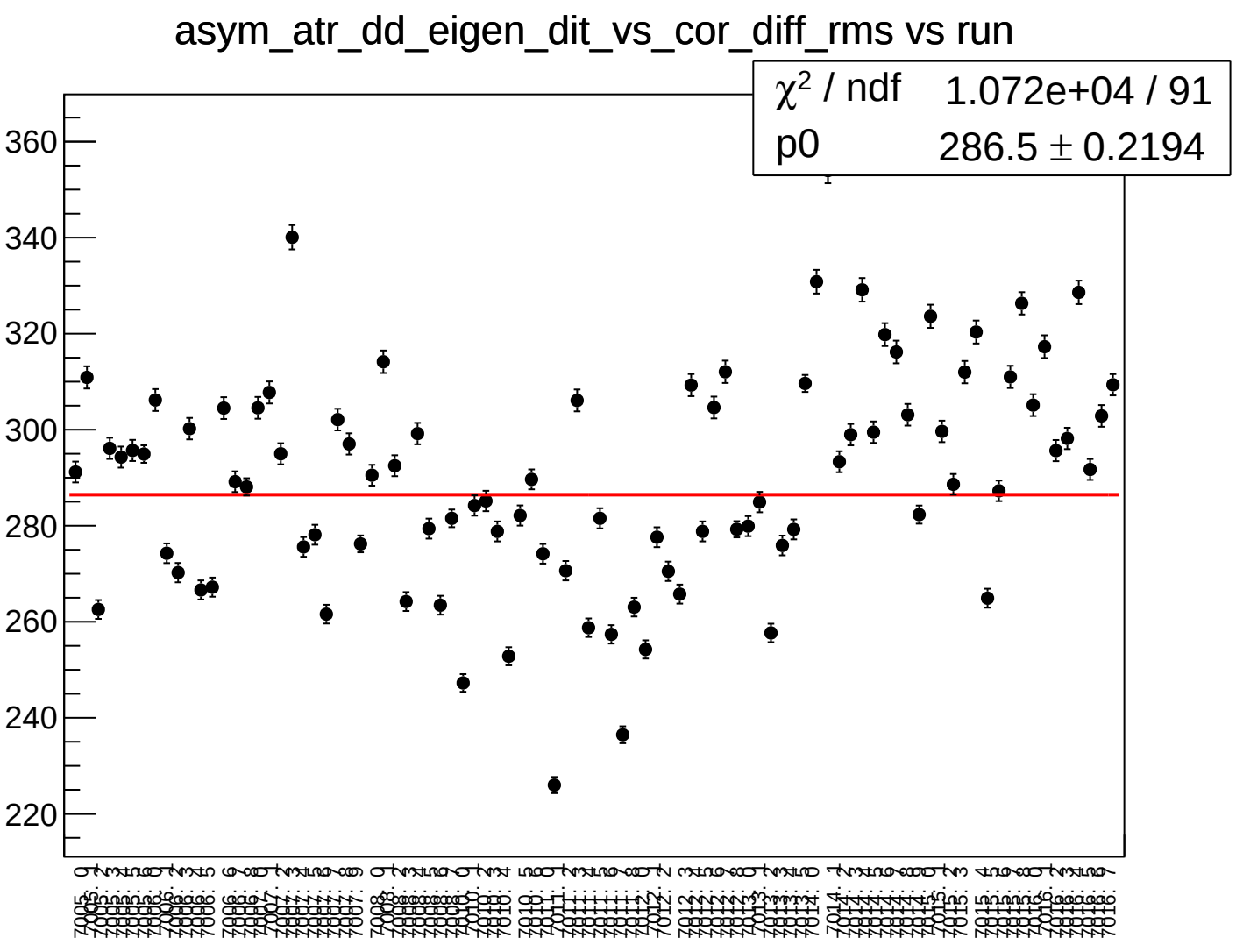

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.17 / 91
p0 3.514e−05 ± 1.215e−05
pull
Entries 92
Mean −327.9
Std Dev 0

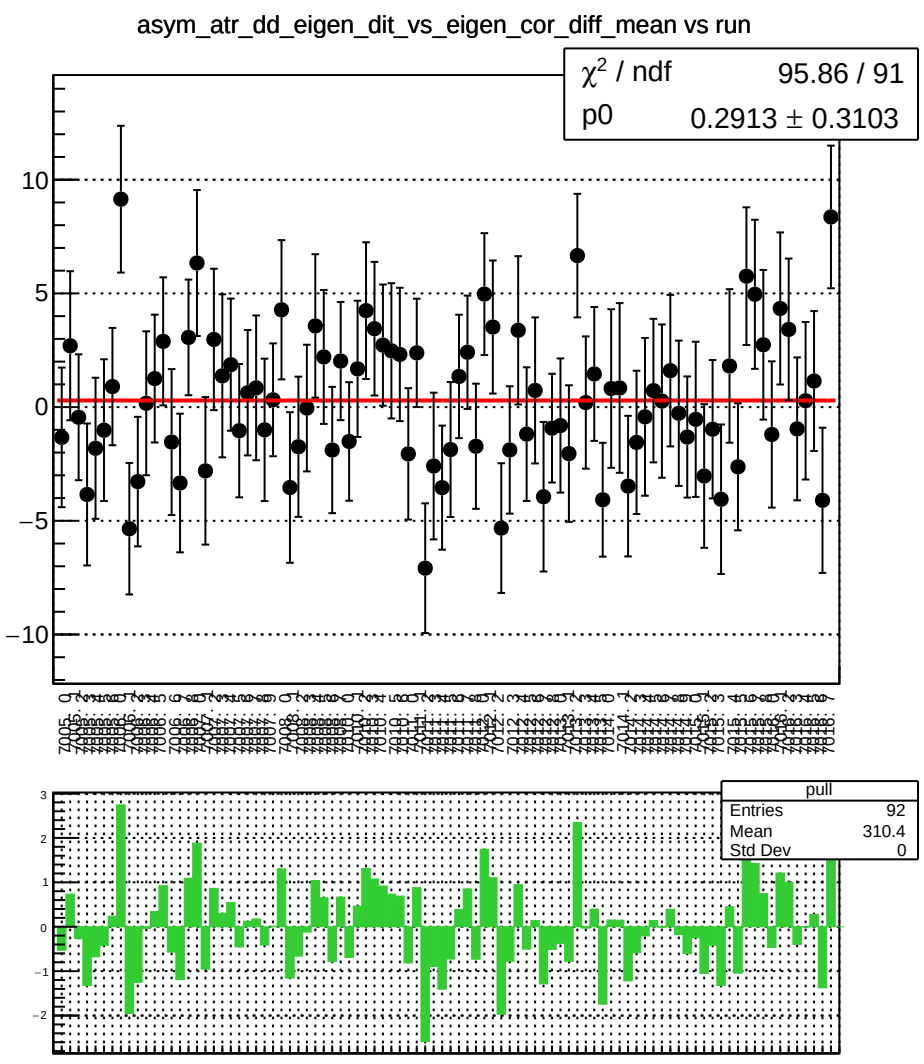

pull1D
Entries 92
Mean −0.002312
Std Dev 0.979

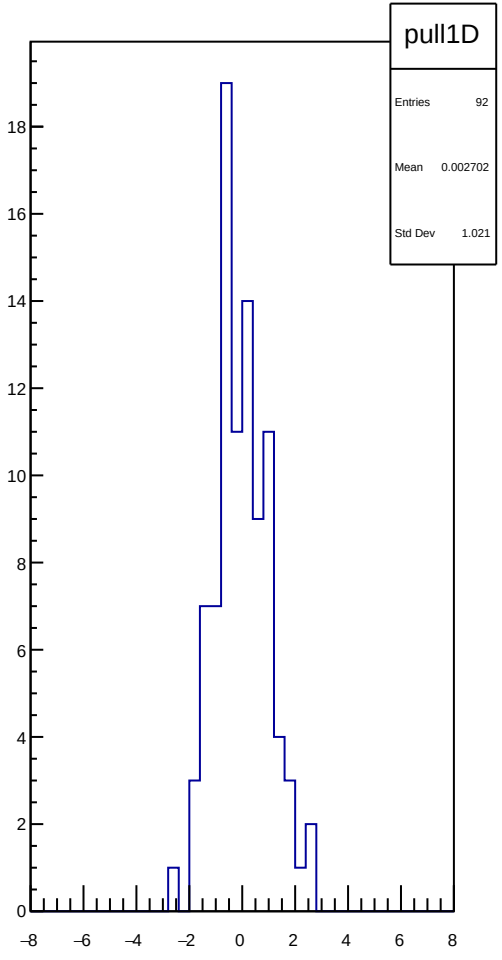

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4644 / 91
p0 0.01124 ± 8.592e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01

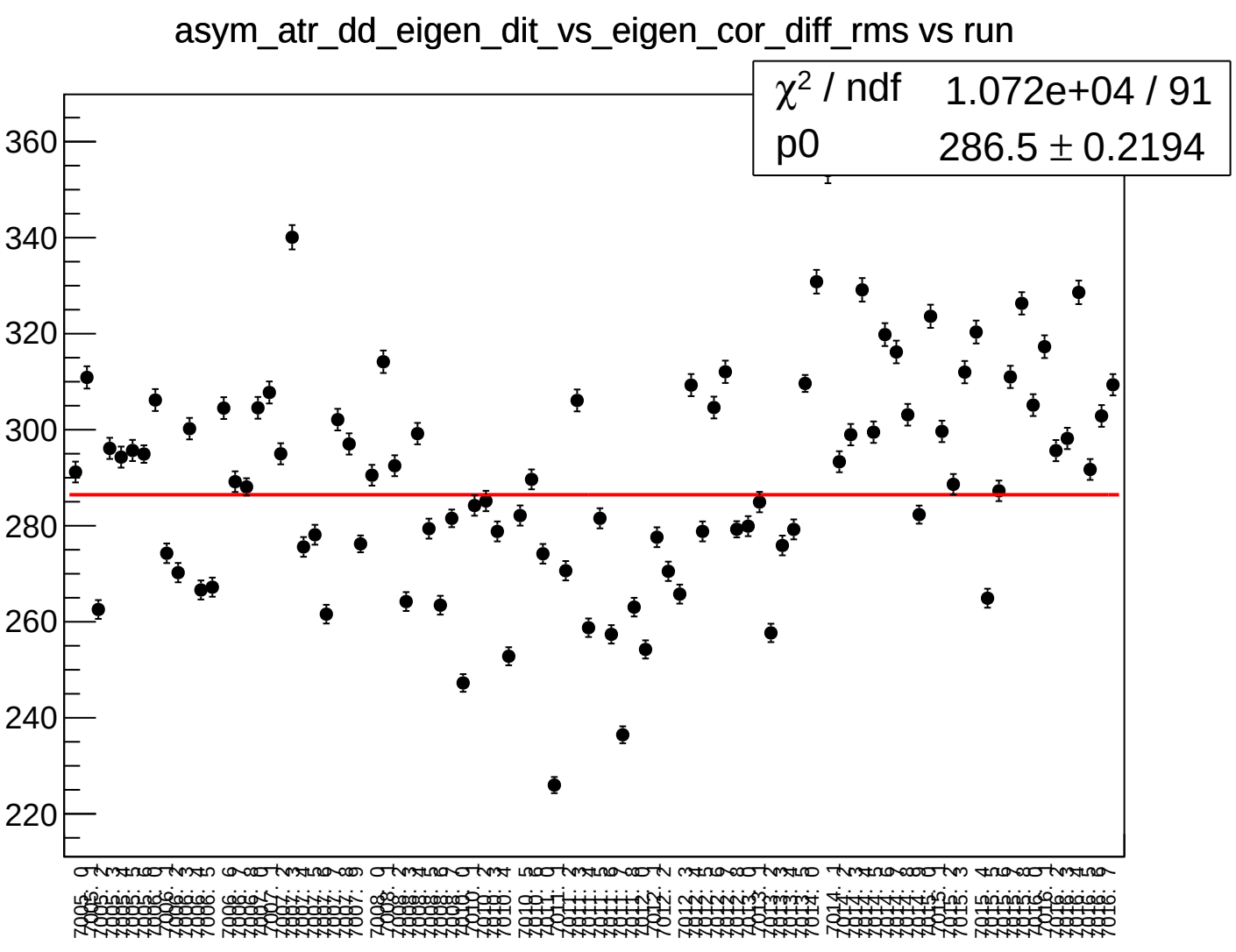

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.86 / 91
p0 0.2913 ± 0.3103
pull
Entries 92
Mean 310.4
Std Dev 0

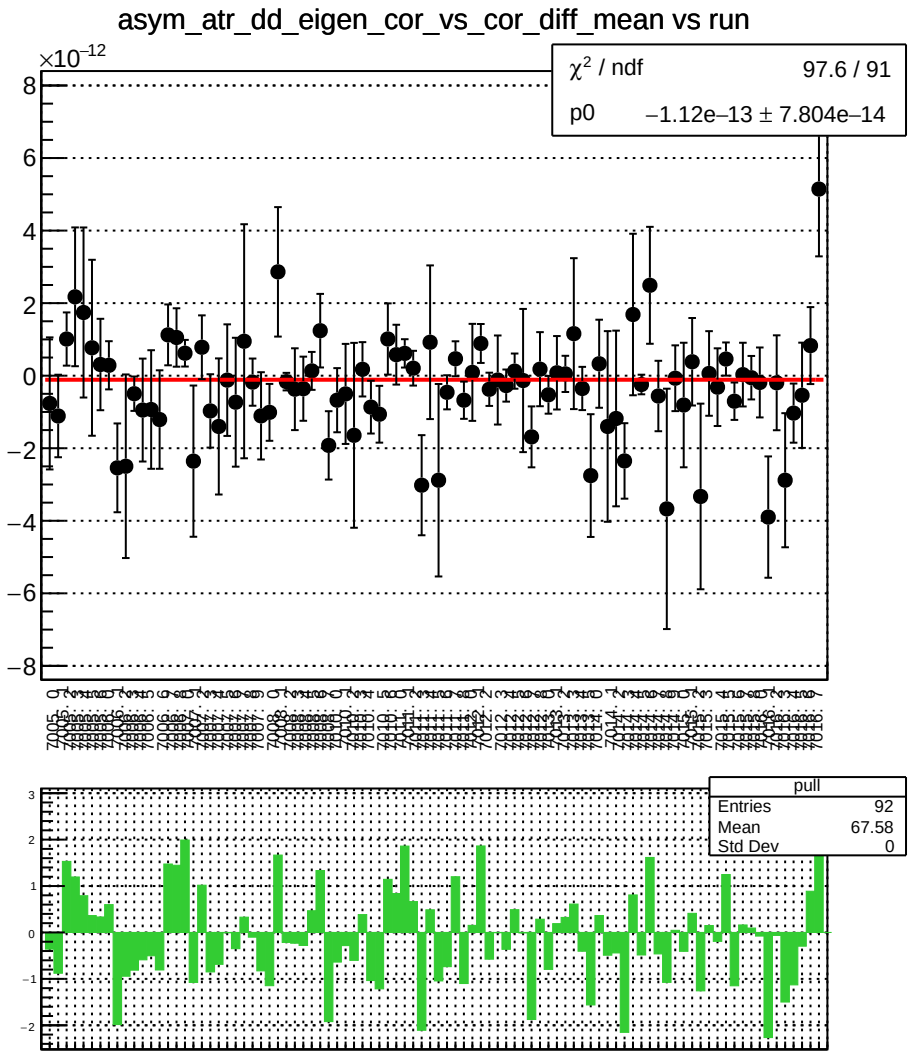

pull1D
Entries 92
Mean 0.002702
Std Dev 1.021

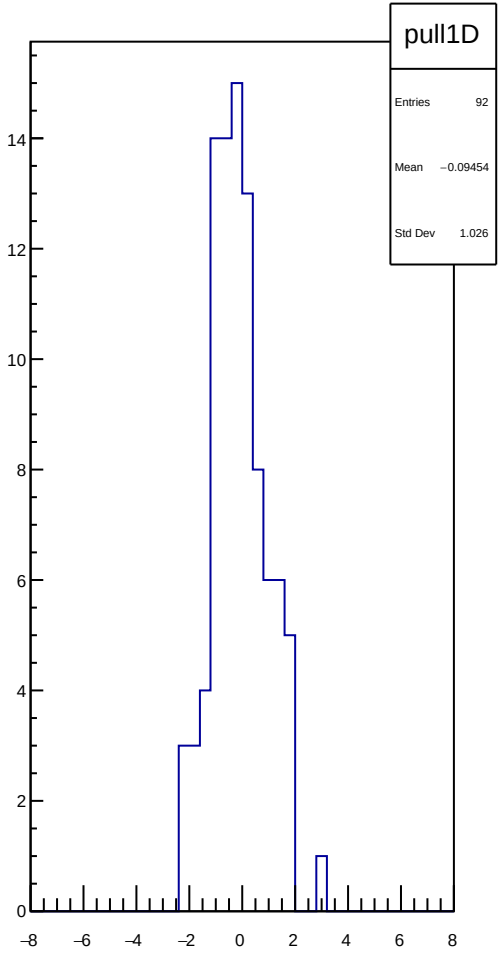

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.072e+04 / 91
p0 286.5 ± 0.2194
360
340
320
300
280
260
240
220

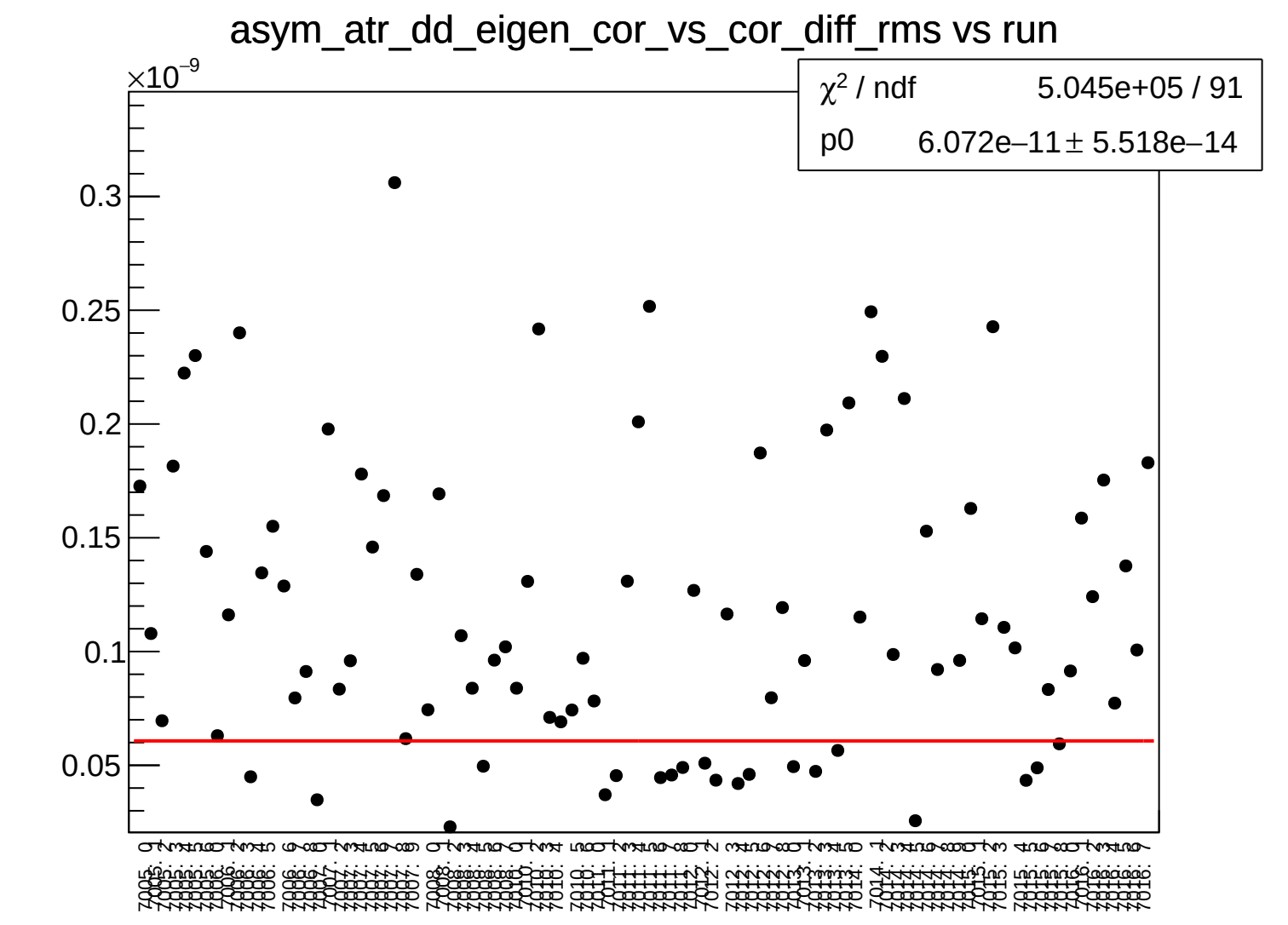

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.86 / 91
p0 0.2913 ± 0.3103
pull
Entries 92
Mean 310.4
Std Dev 0

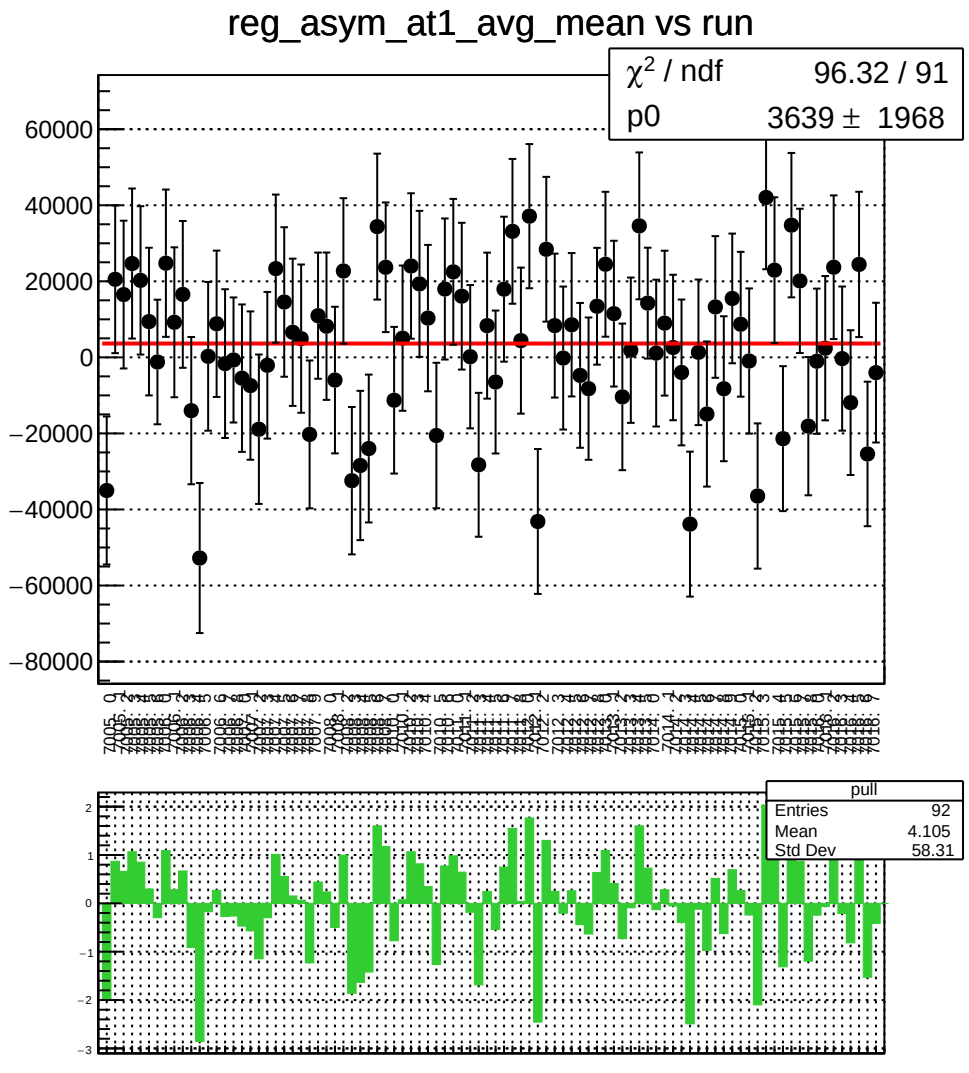

pull1D
Entries 92
Mean 0.002702
Std Dev 1.021

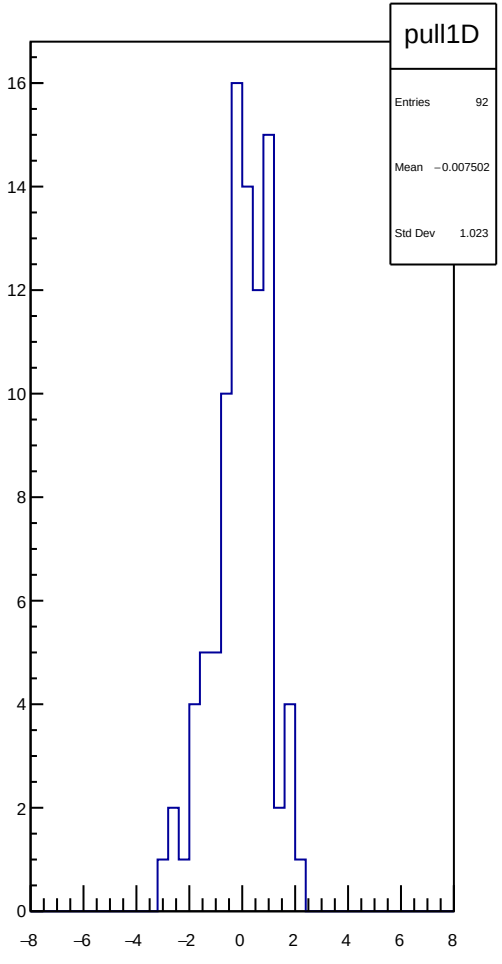

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.072e+04 / 91
p0 286.5 ± 0.2194
360
340
320
300
280
260
240
220

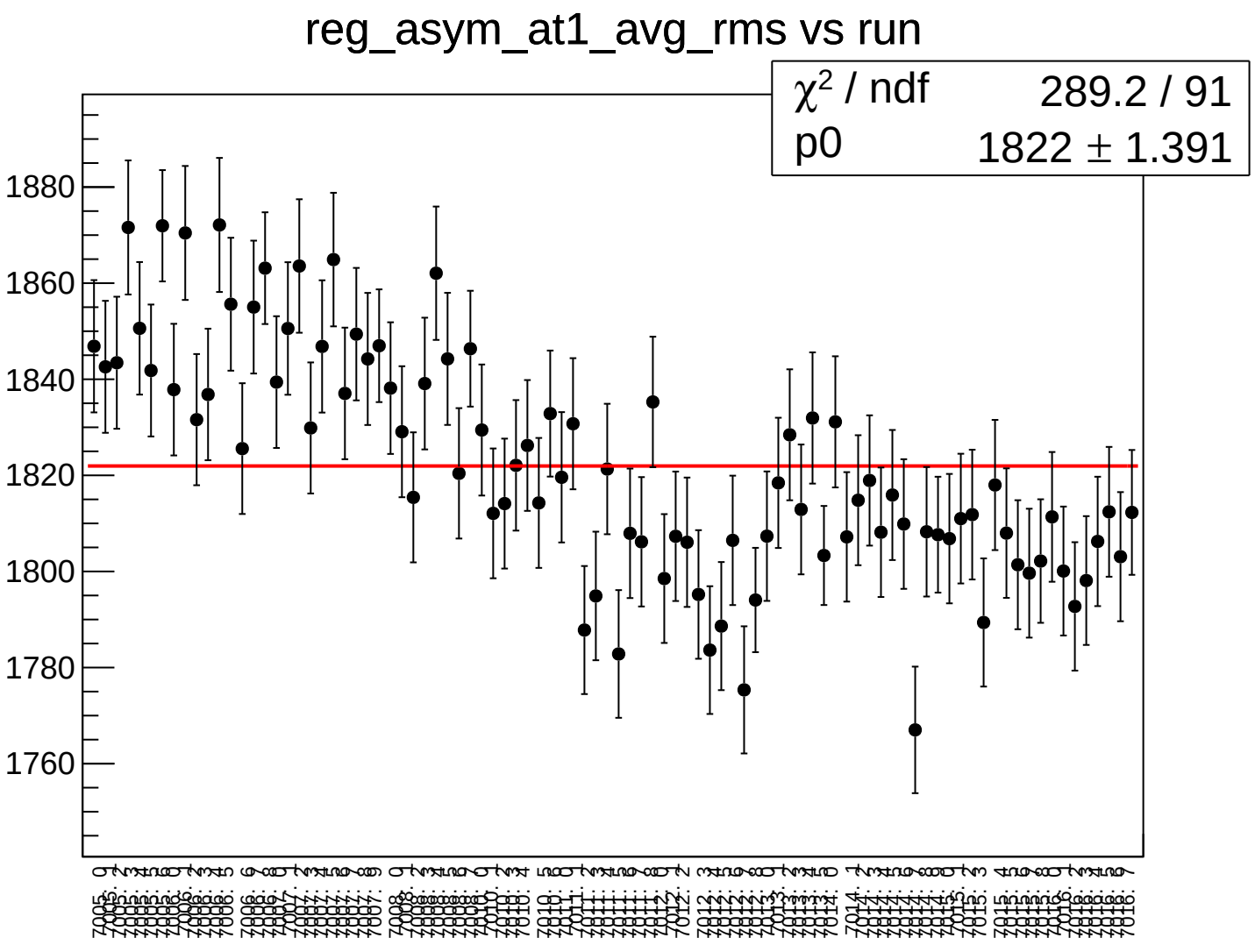

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.6 / 91
p0 −1.12e−13 ± 7.804e−14
pull
Entries 92
Mean 67.58
Std Dev 0

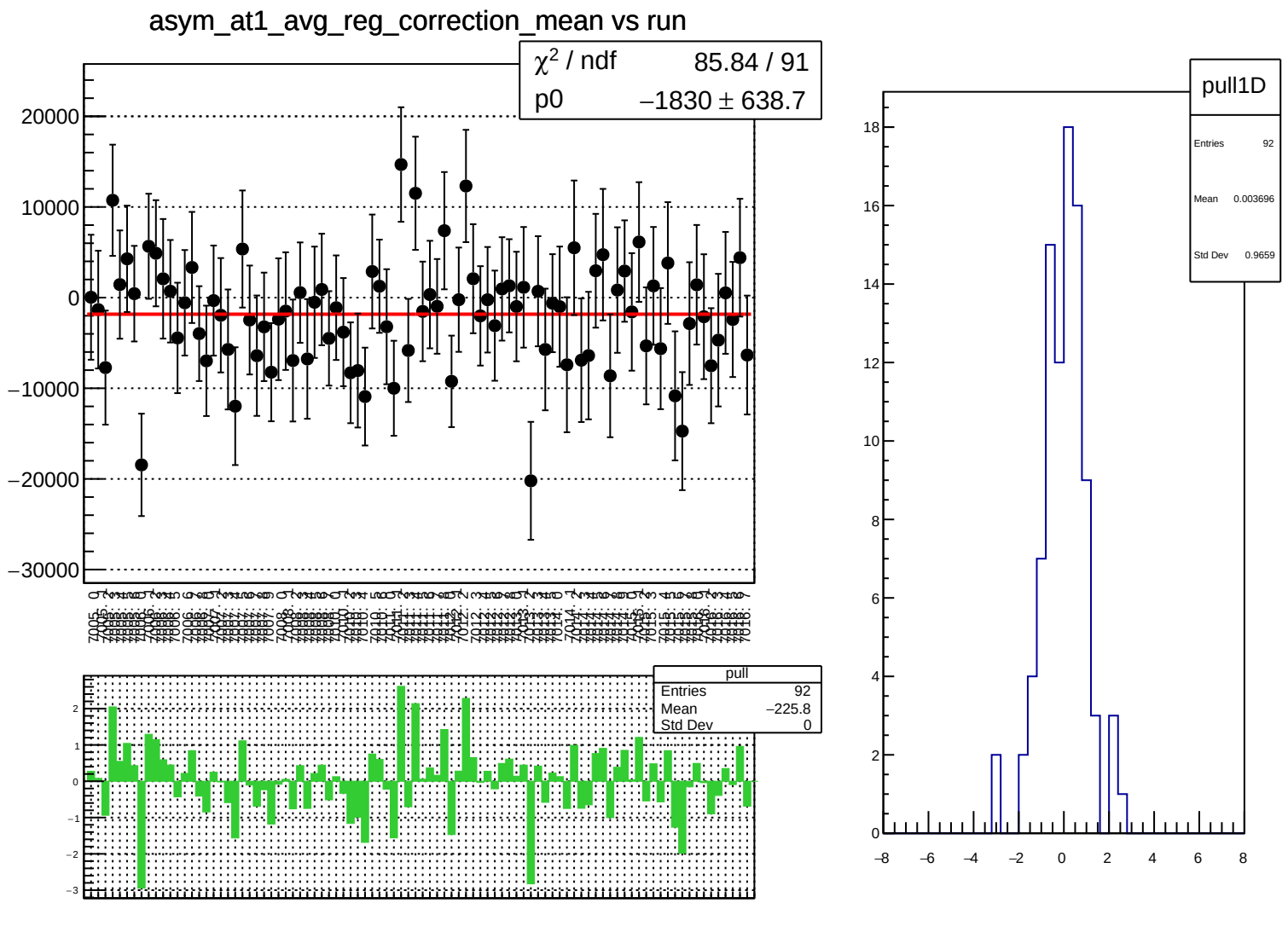

pull1D
Entries 92
Mean −0.09454
Std Dev 1.026

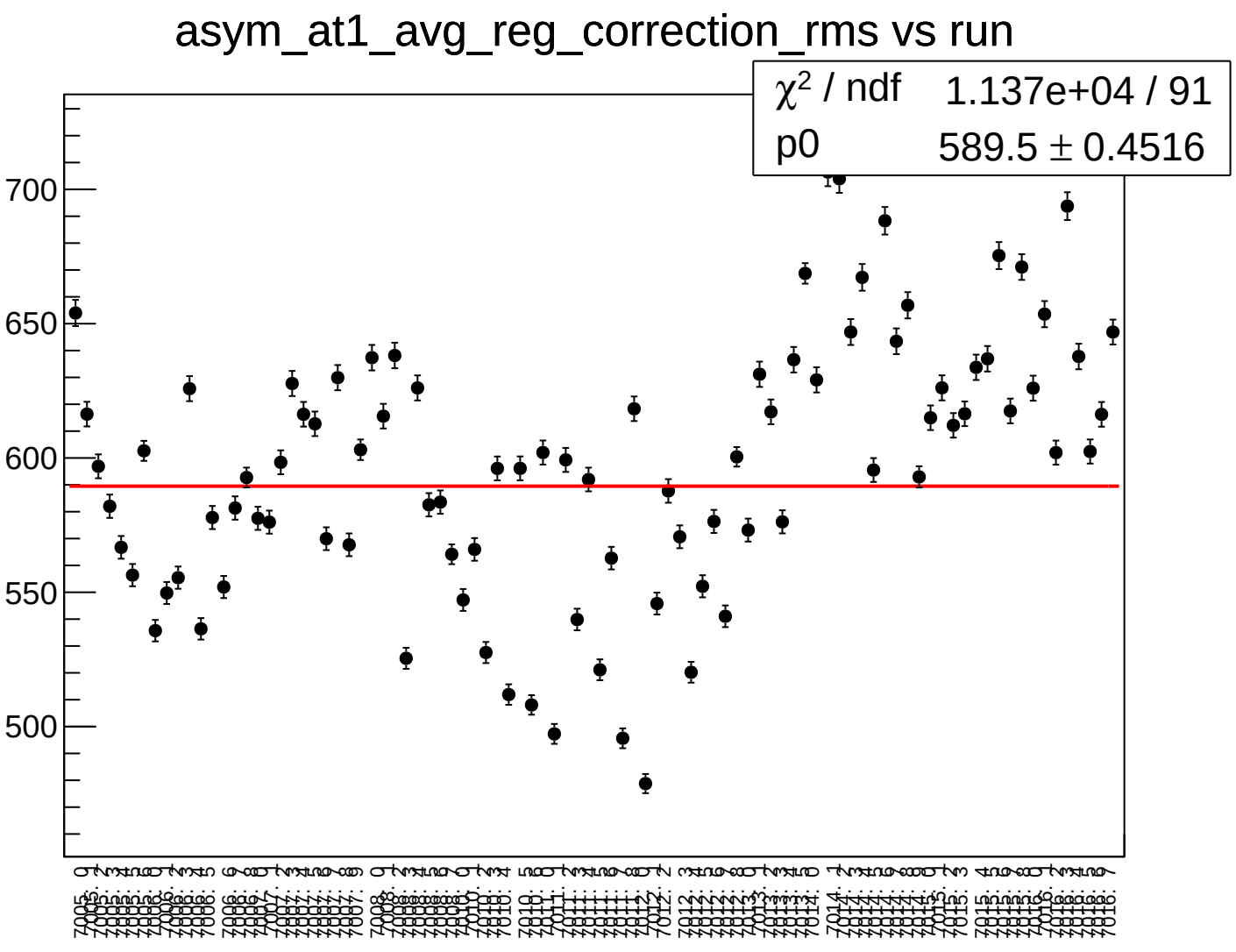

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.045e+05 / 91
p0 6.072e−11 ± 5.518e−14
0.3
0.25
0.2
0.15
0.1
0.05

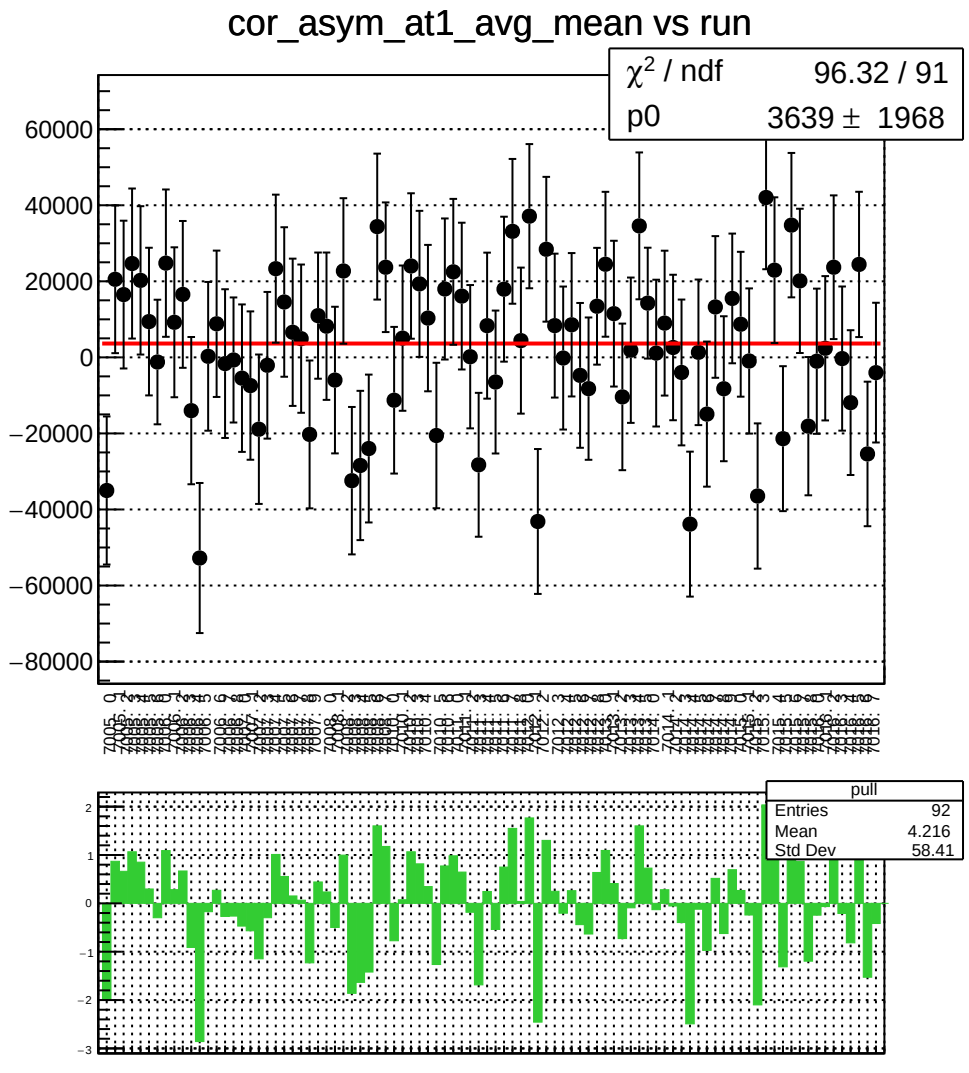

reg_asym_at1_avg_mean vs run
χ² / ndf 96.32 / 91
p0 3639 ± 1968
pull
Entries 92
Mean 4.105
Std Dev 58.31

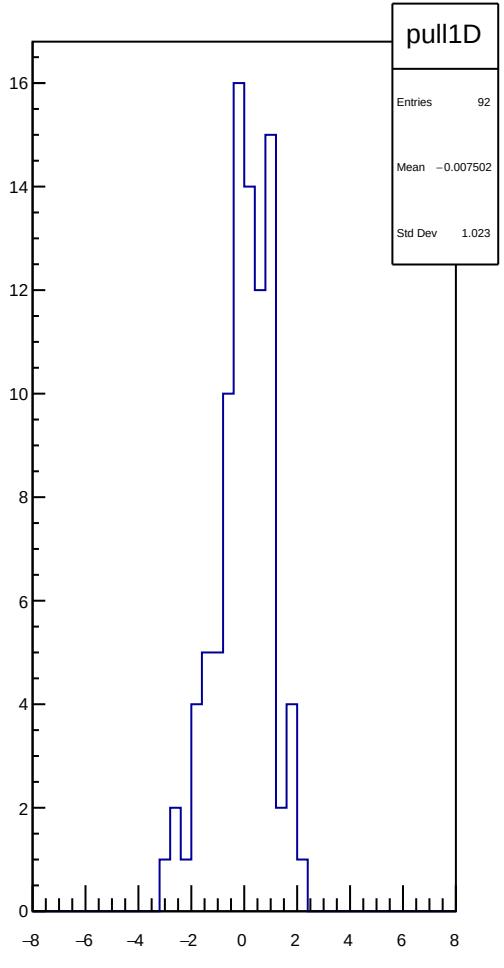

pull1D
Entries 92
Mean −0.007502
Std Dev 1.023

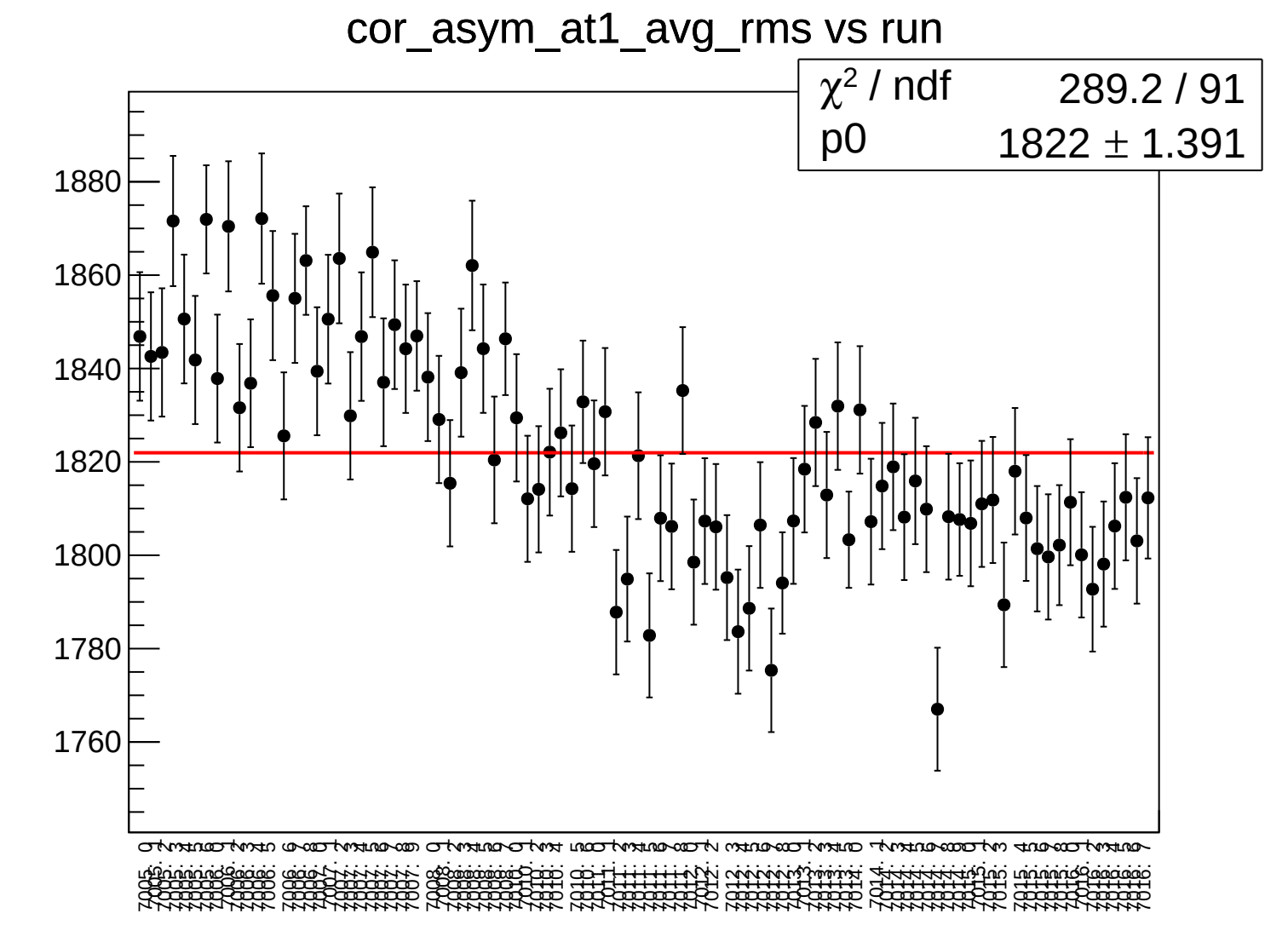

reg_asym_at1_avg_rms vs run
χ² / ndf 289.2 / 91
p0 1822 ± 1.391
1880
1860
1840
1820
1800
1780
1760

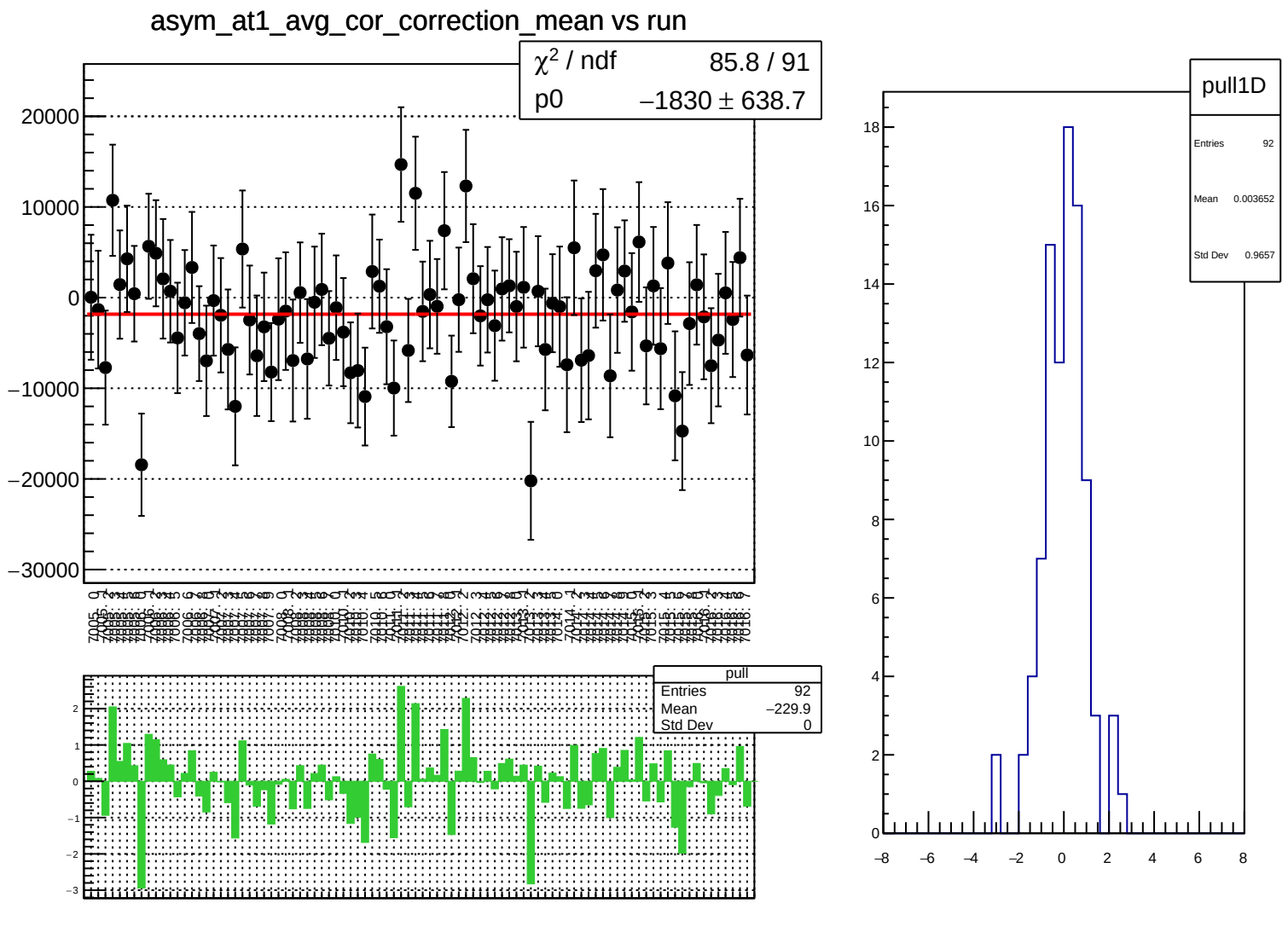

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 85.84 / 91
p0 −1830 ± 638.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −225.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.003696
Std Dev 0.9659
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

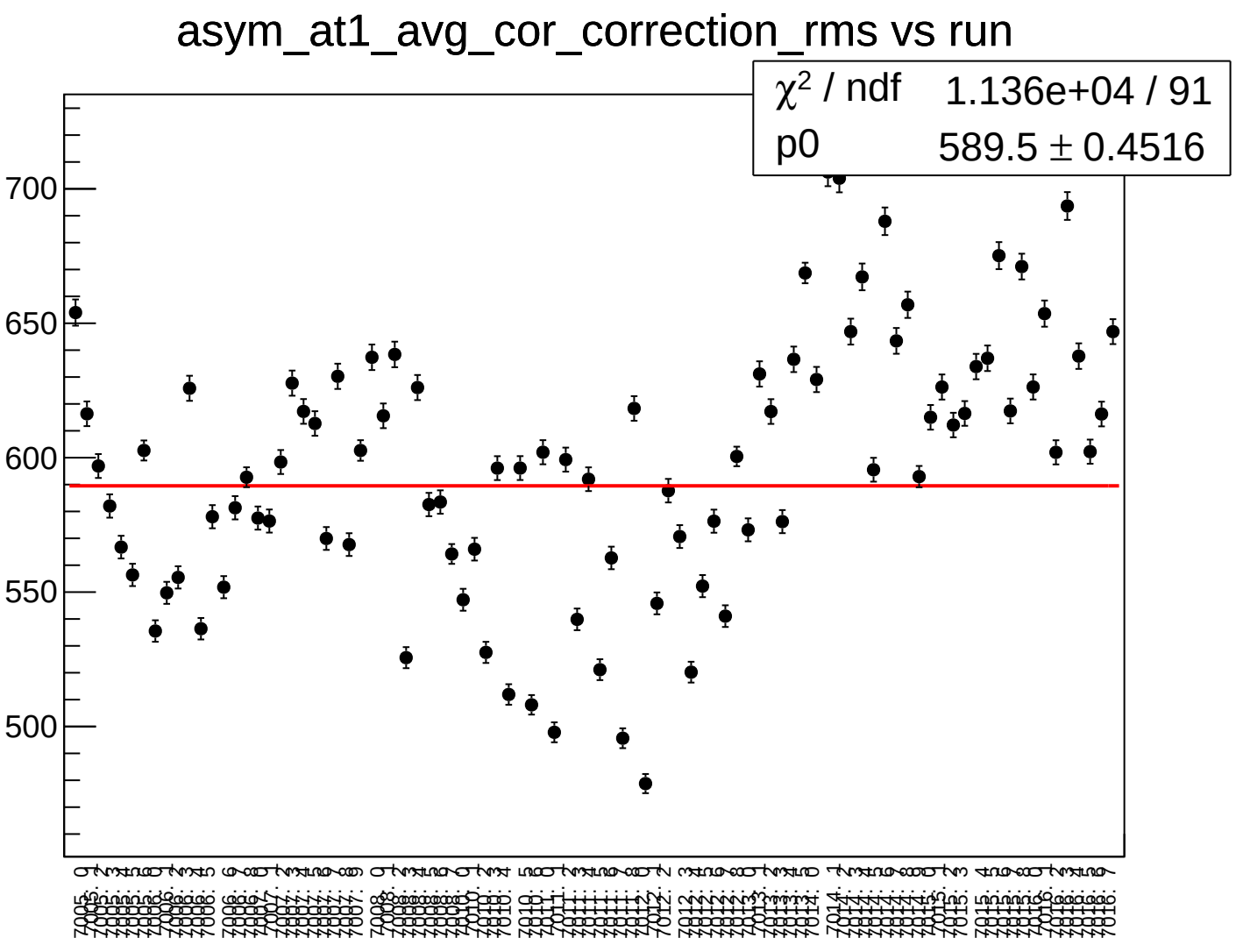

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.137e+04 / 91
p0 589.5 ± 0.4516
700
650
600
550
500

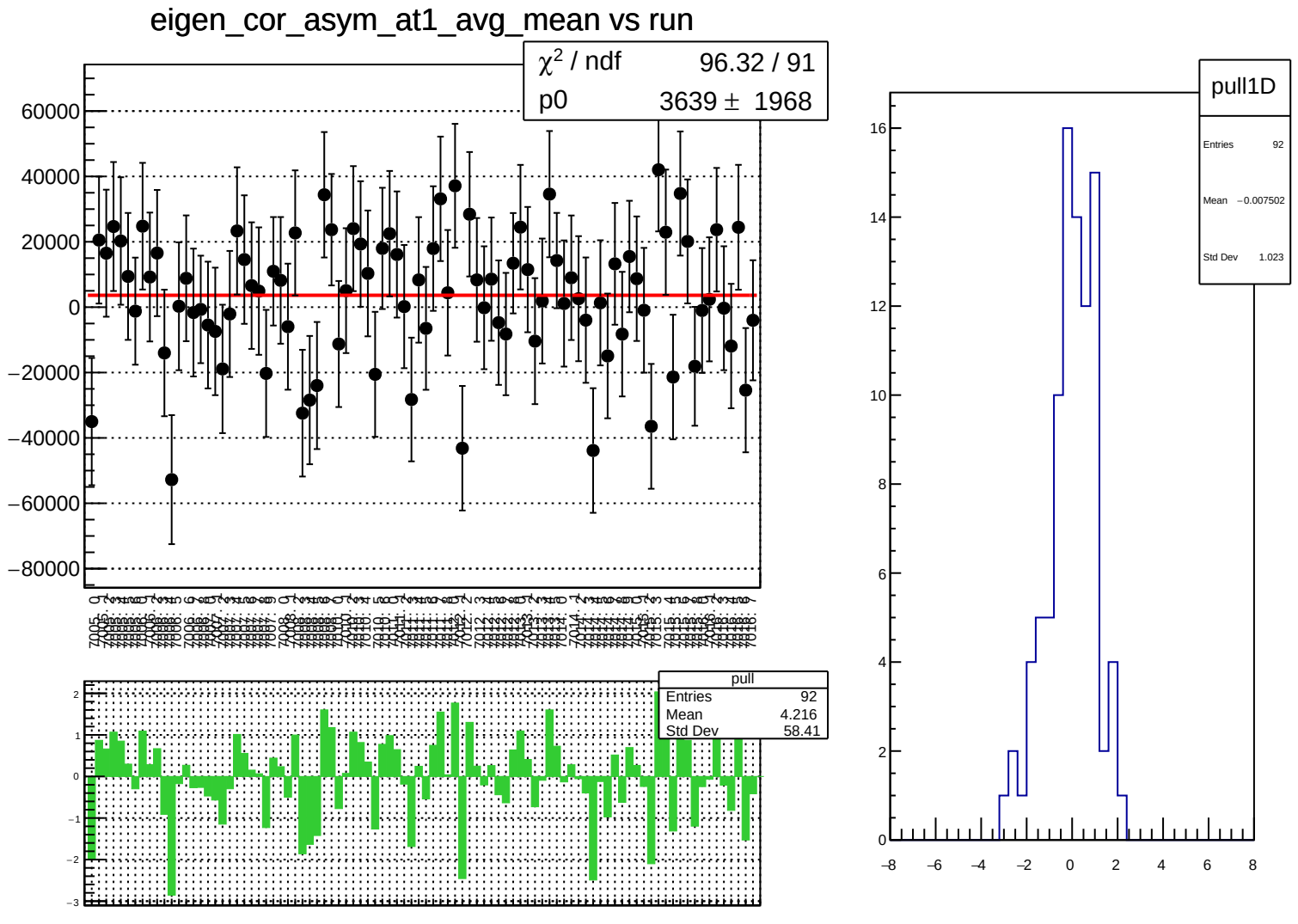

cor_asym_at1_avg_mean vs run
χ² / ndf 96.32 / 91
p0 3639 ± 1968
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 4.216
Std Dev 58.41
2
1
0
−1
−2
−3

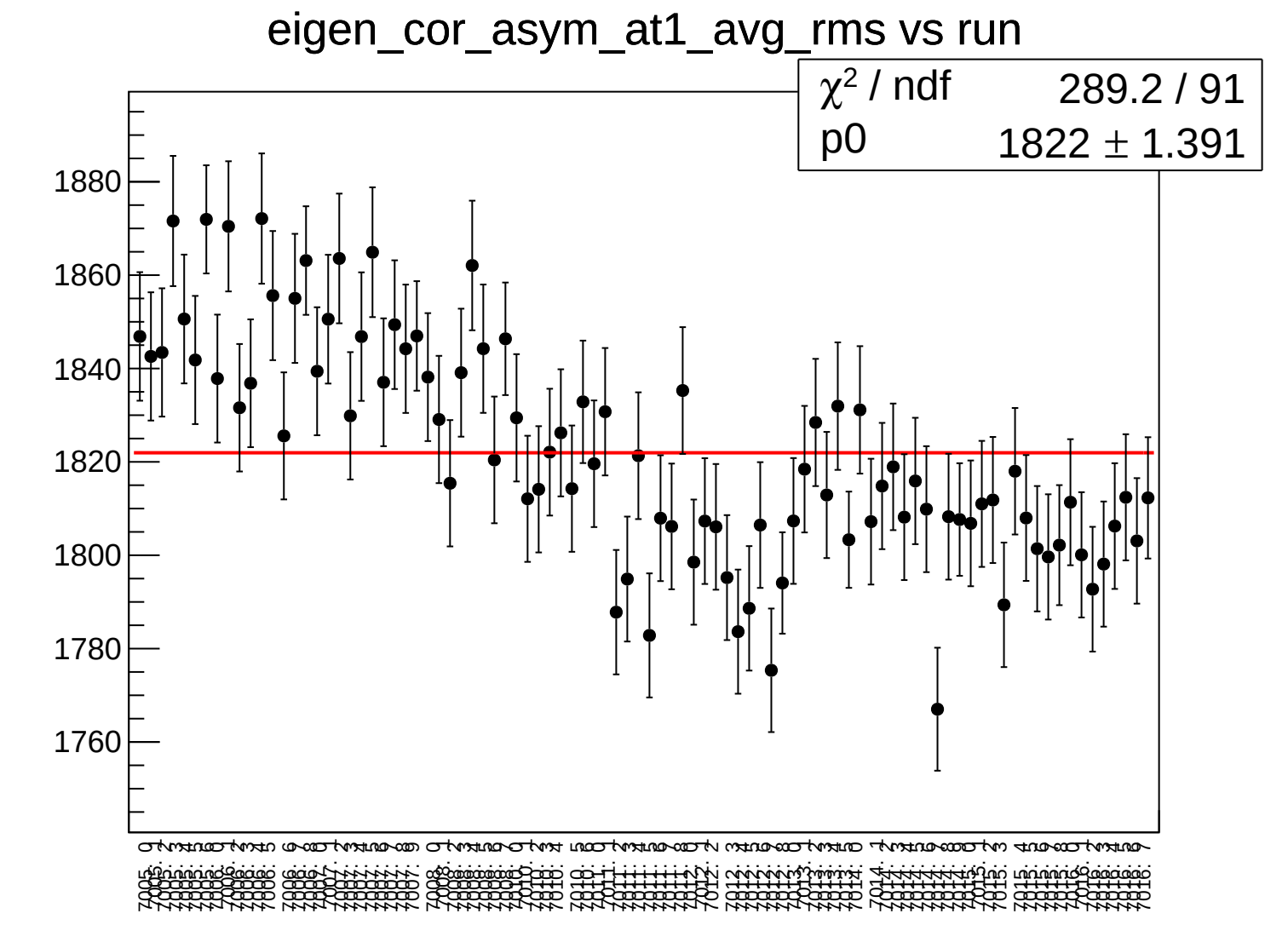

pull1D
Entries 92
Mean −0.007502
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

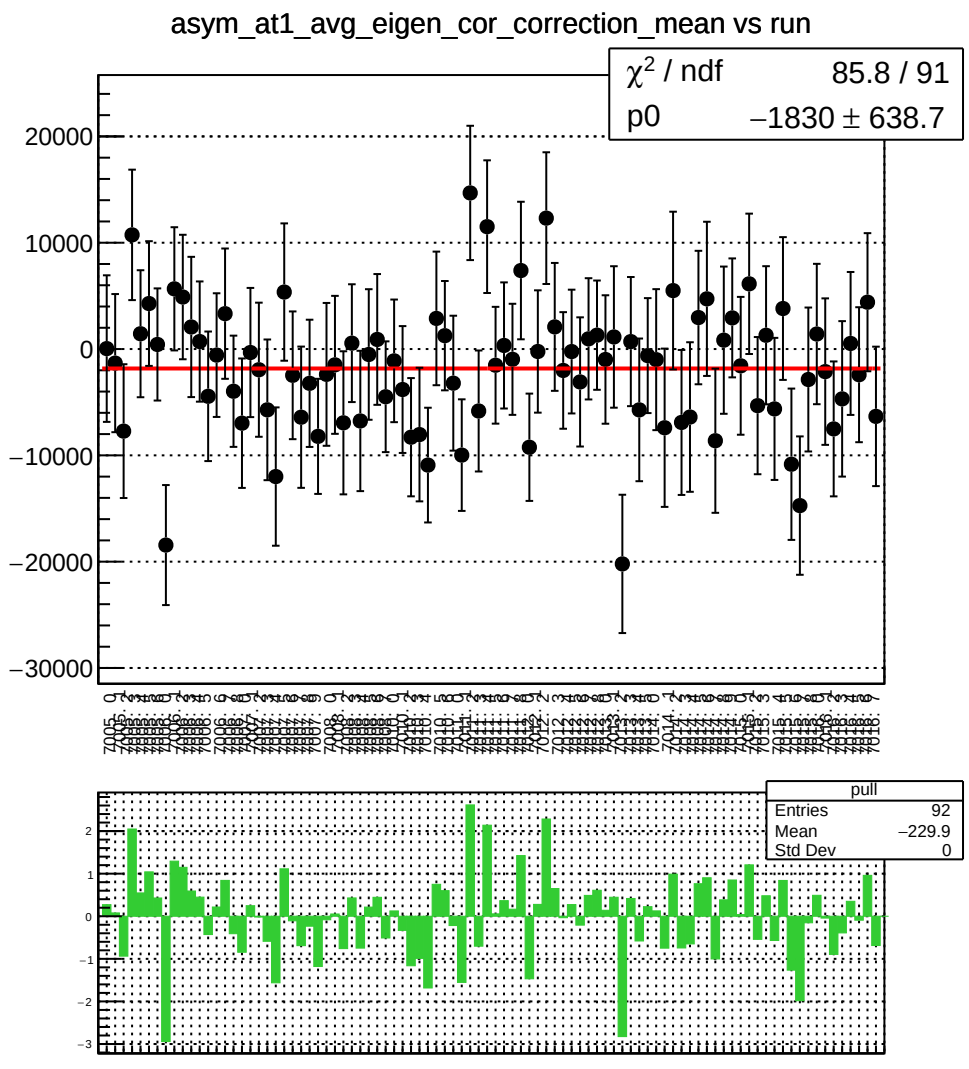

cor_asym_at1_avg_rms vs run
$\chi^2$ / ndf 289.2 / 91
p0 1822 ± 1.391
1880
1860
1840
1820
1800
1780
1760

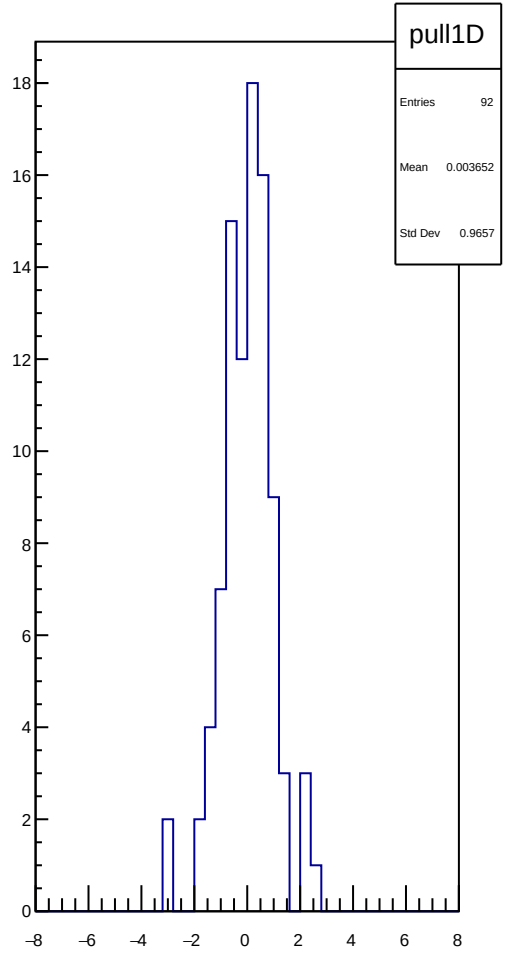

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 85.8 / 91
p0 −1830 ± 638.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −229.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.003652
Std Dev 0.9657
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

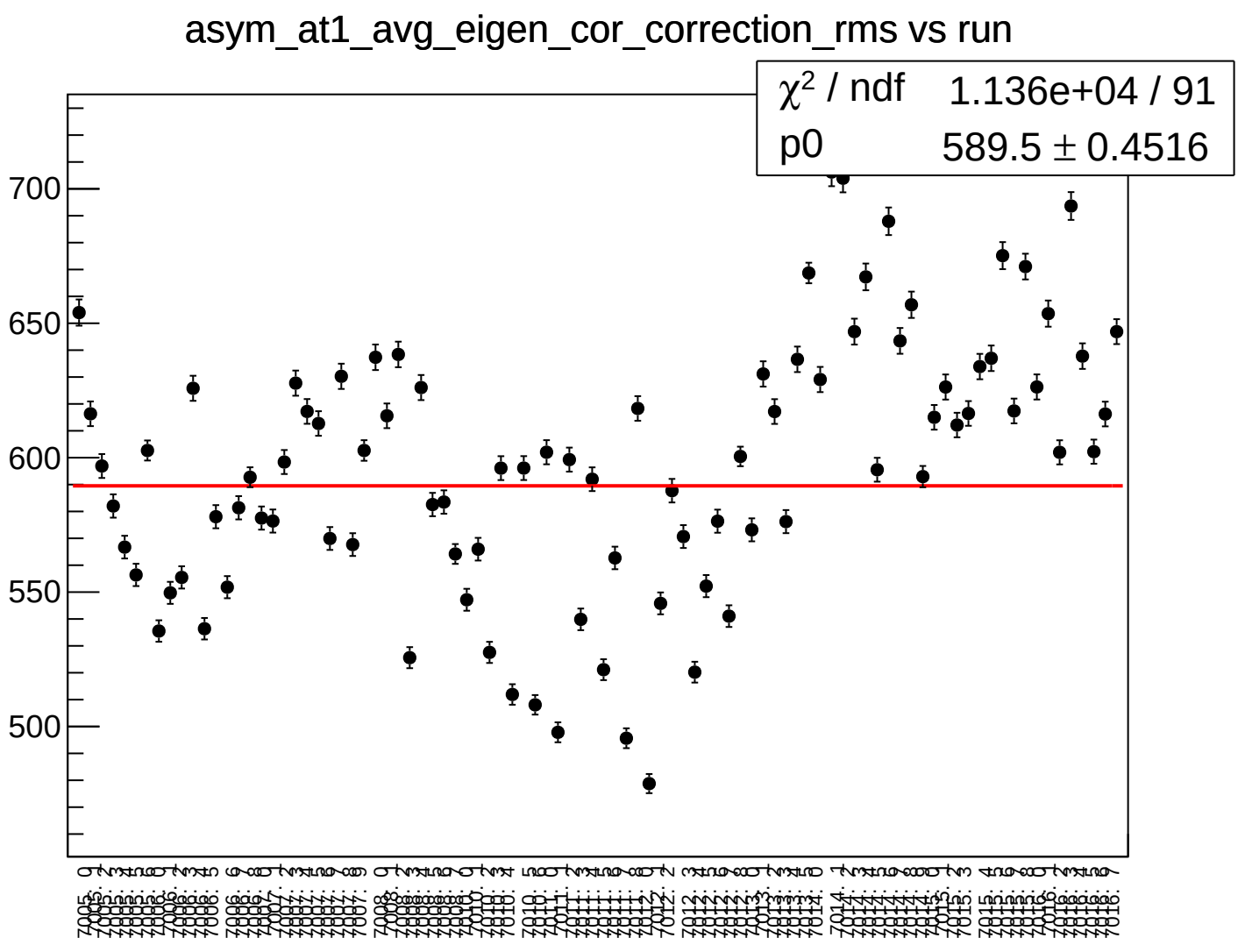

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.136e+04 / 91
p0 589.5 ± 0.4516
700
650
600
550
500

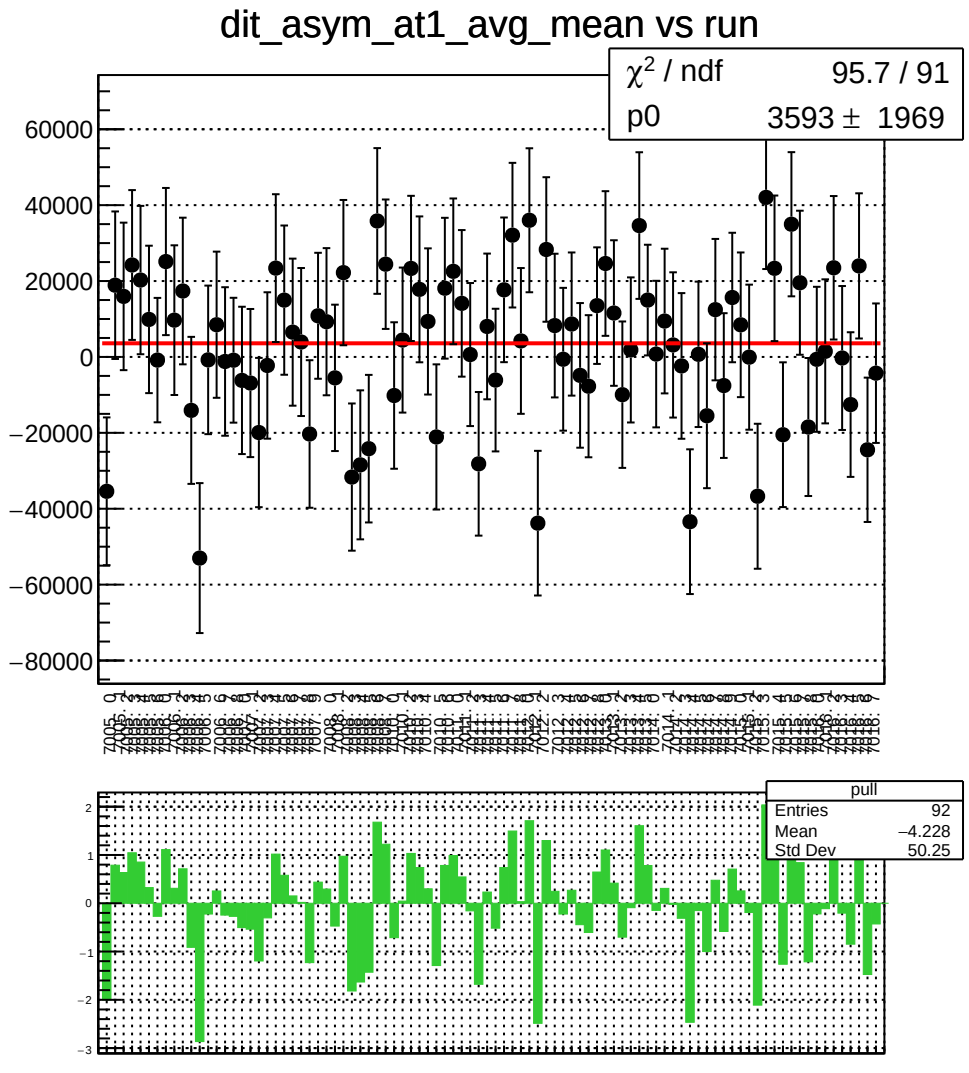

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 96.32 / 91
p0 3639 ± 1968
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 4.216
Std Dev 58.41
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.007502
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

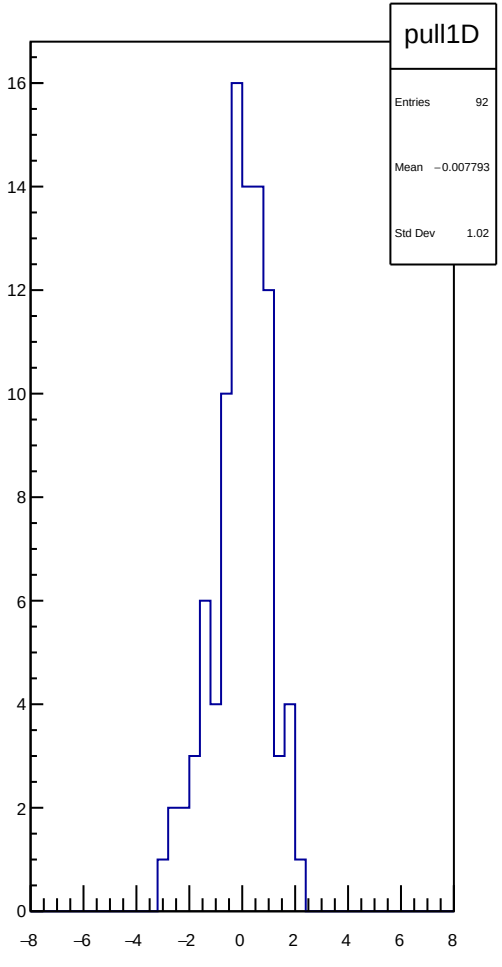

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 289.2 / 91
p0 1822 ± 1.391
1880
1860
1840
1820
1800
1780
1760

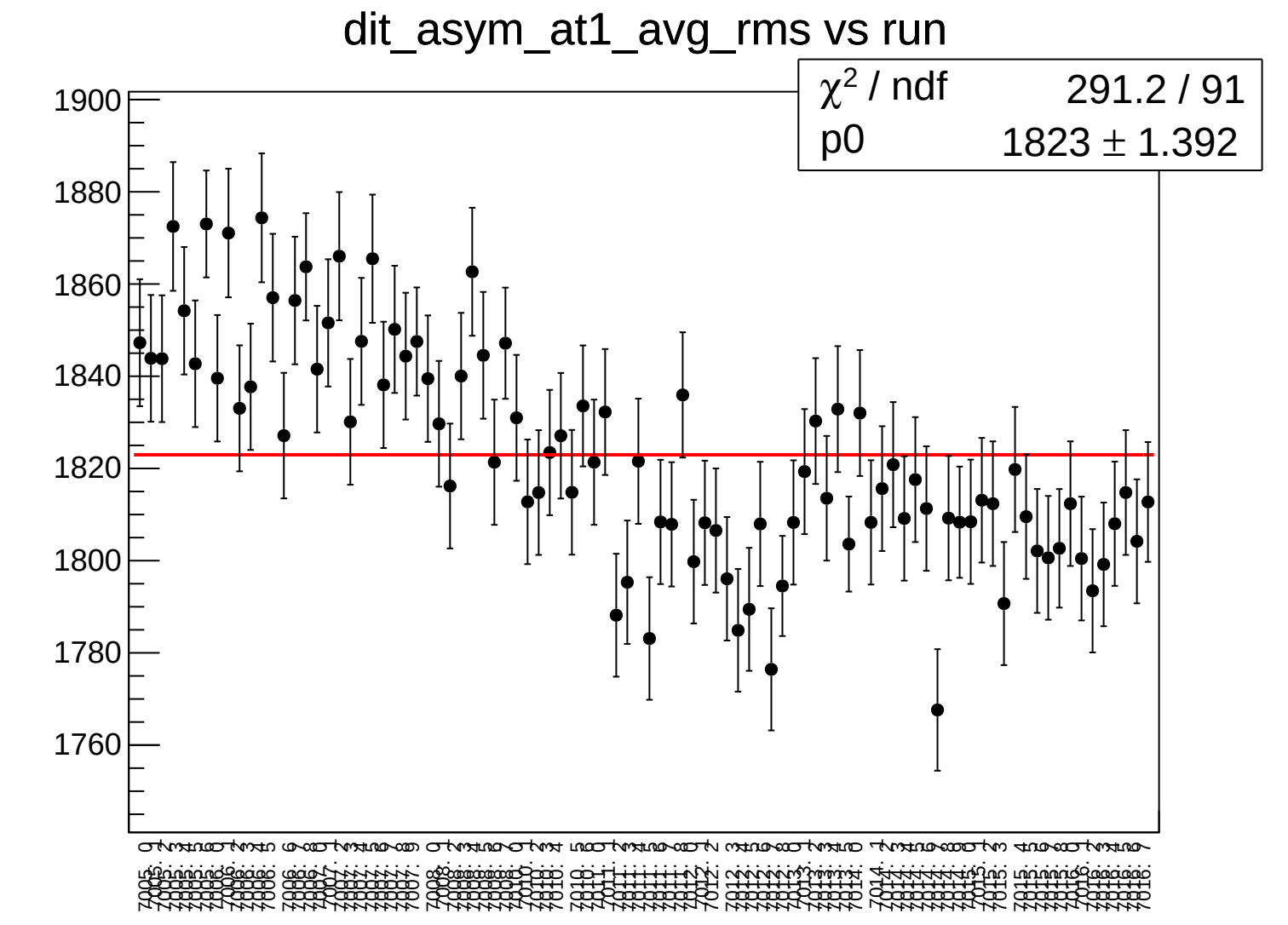

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.8 / 91
p0 −1830 ± 638.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −229.9
Std Dev 0
2
1
0
−1
−2
−3

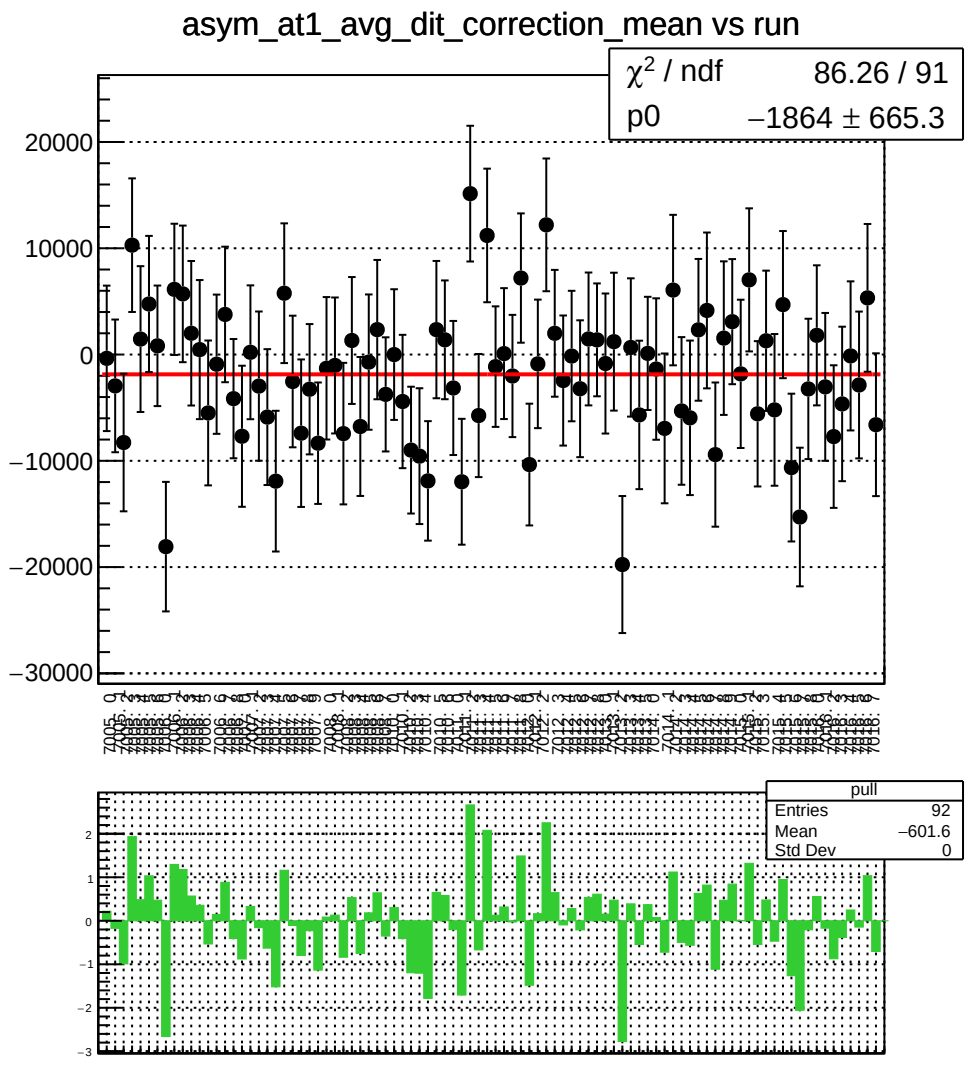

pull1D
Entries 92
Mean 0.003652
Std Dev 0.9657
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

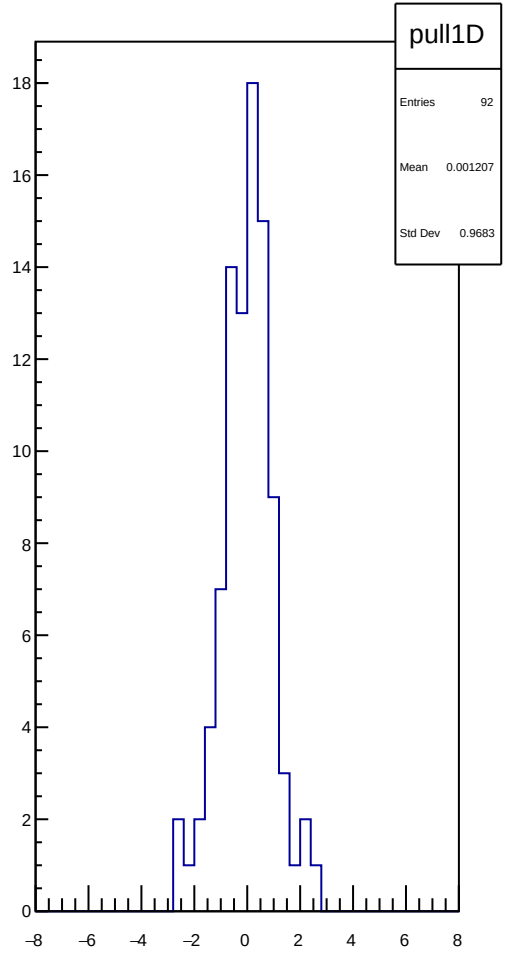

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.136e+04 / 91
p0 589.5 ± 0.4516
700
650
600
550
500

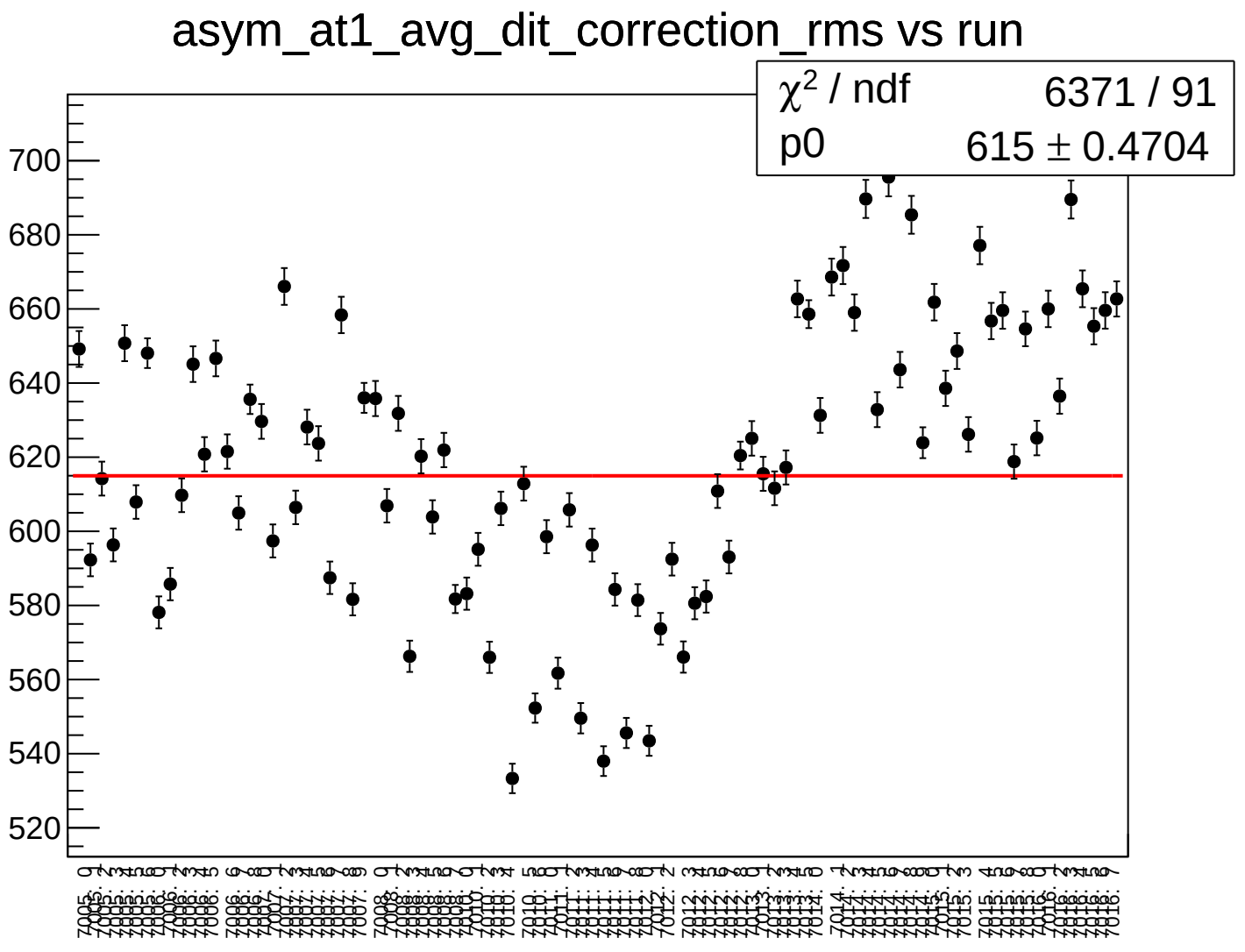

dit_asym_at1_avg_mean vs run
χ² / ndf 95.7 / 91
p0 3593 ± 1969
pull
Entries 92
Mean −4.228
Std Dev 50.25

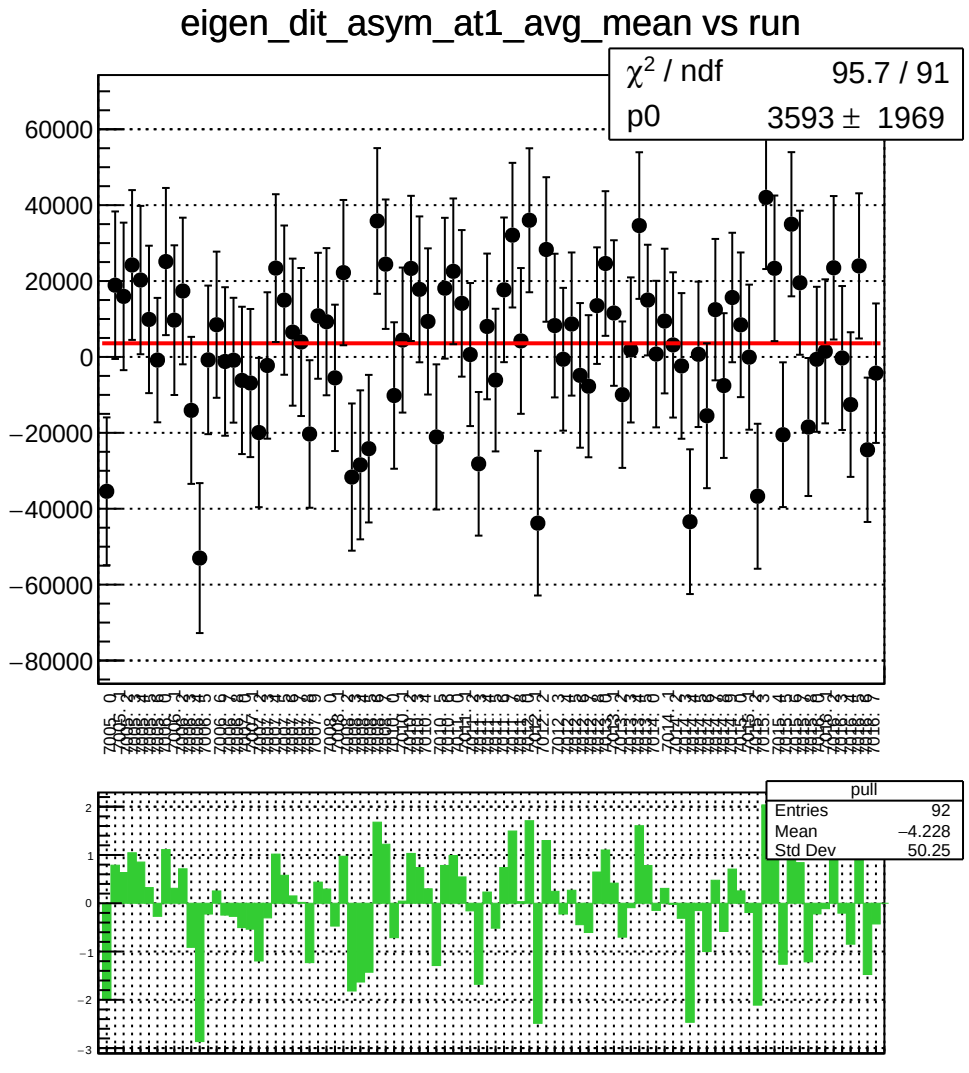

pull1D
Entries 92
Mean −0.007793
Std Dev 1.02

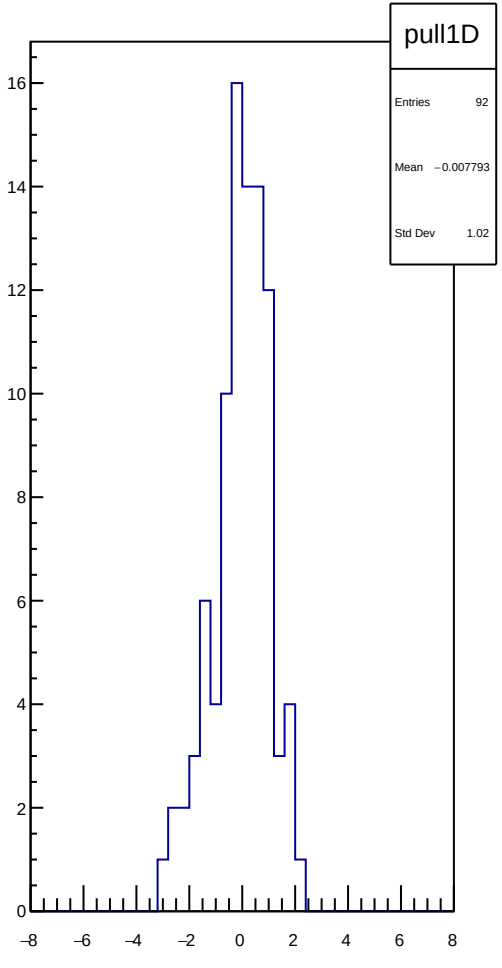

dit_asym_at1_avg_rms vs run
χ² / ndf 291.2 / 91
p0 1823 ± 1.392
1900
1880
1860
1840
1820
1800
1780
1760

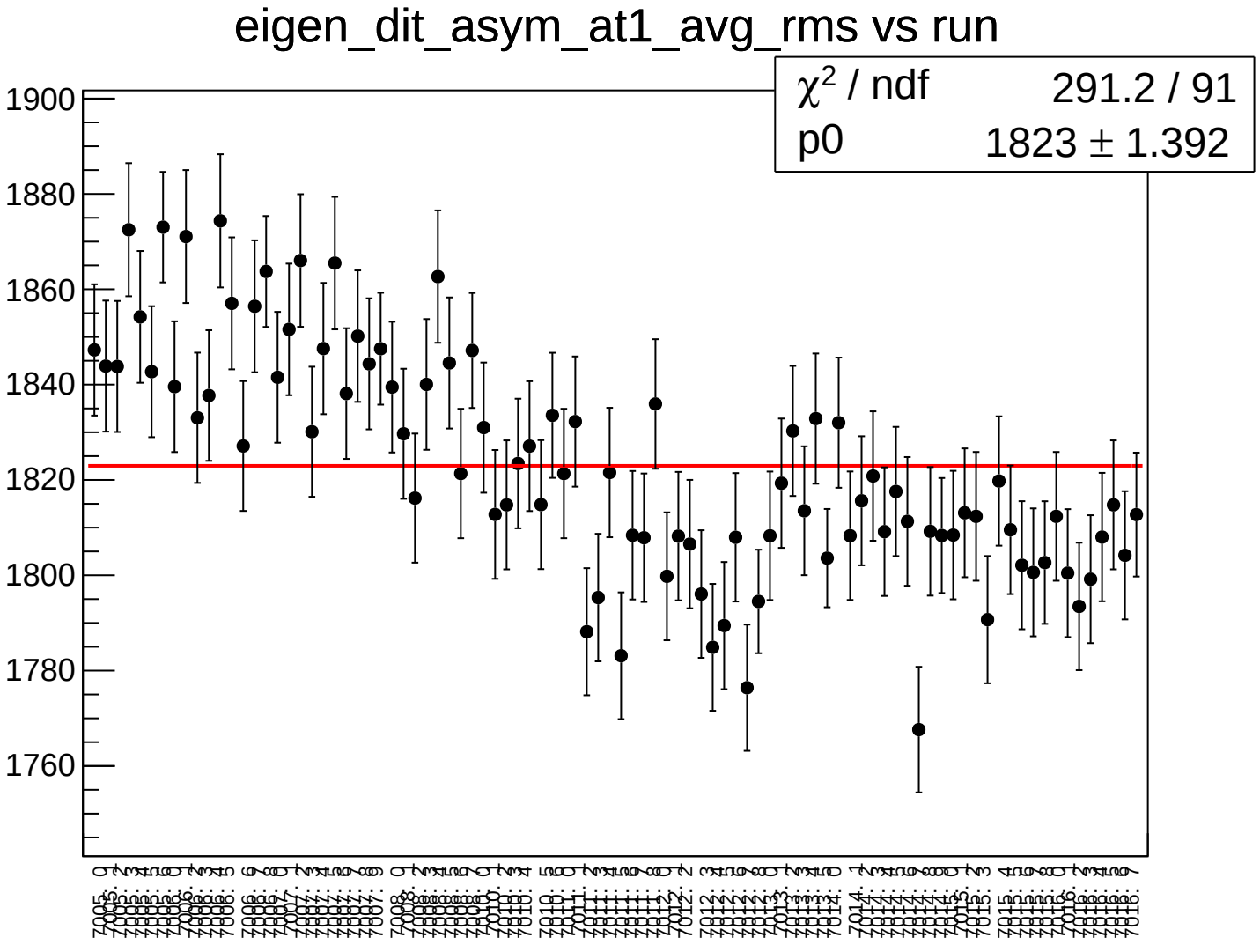

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 86.26 / 91
p0 −1864 ± 665.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −601.6
Std Dev 0
2
1
0
−1
−2
−3

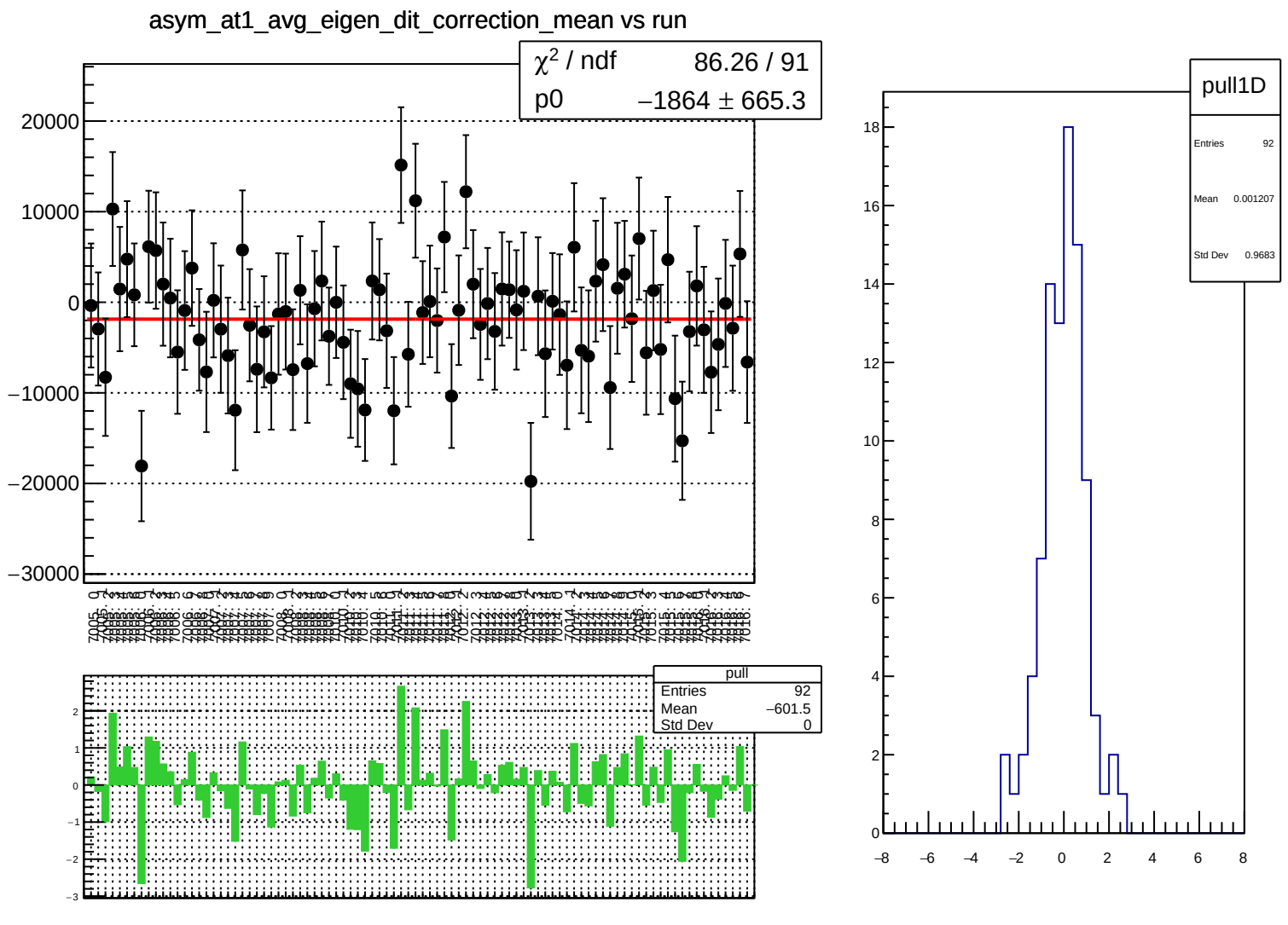

pull1D
Entries 92
Mean 0.001207
Std Dev 0.9683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

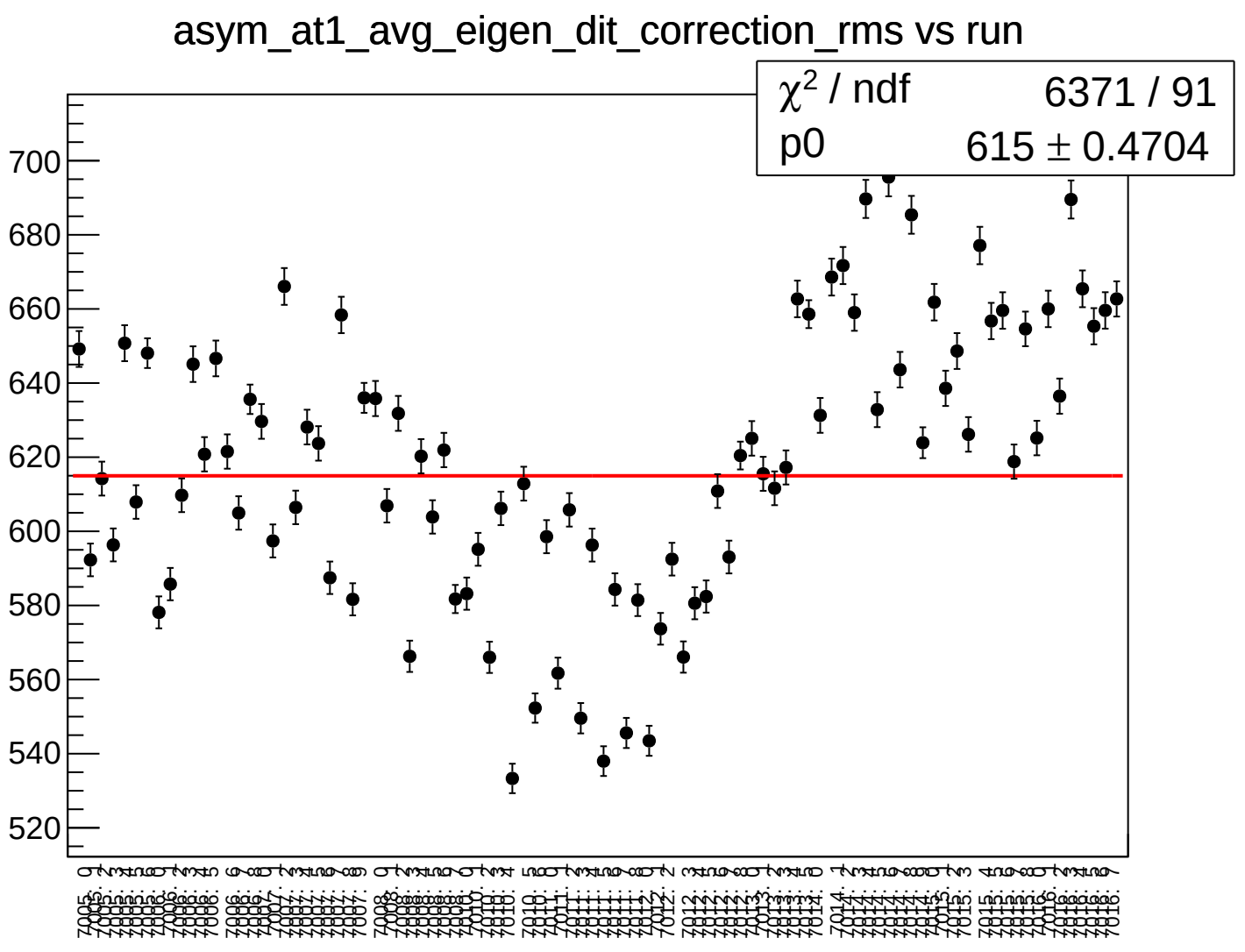

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 6371 / 91
p0 615 ± 0.4704
700
680
660
640
620
600
580
560
540
520

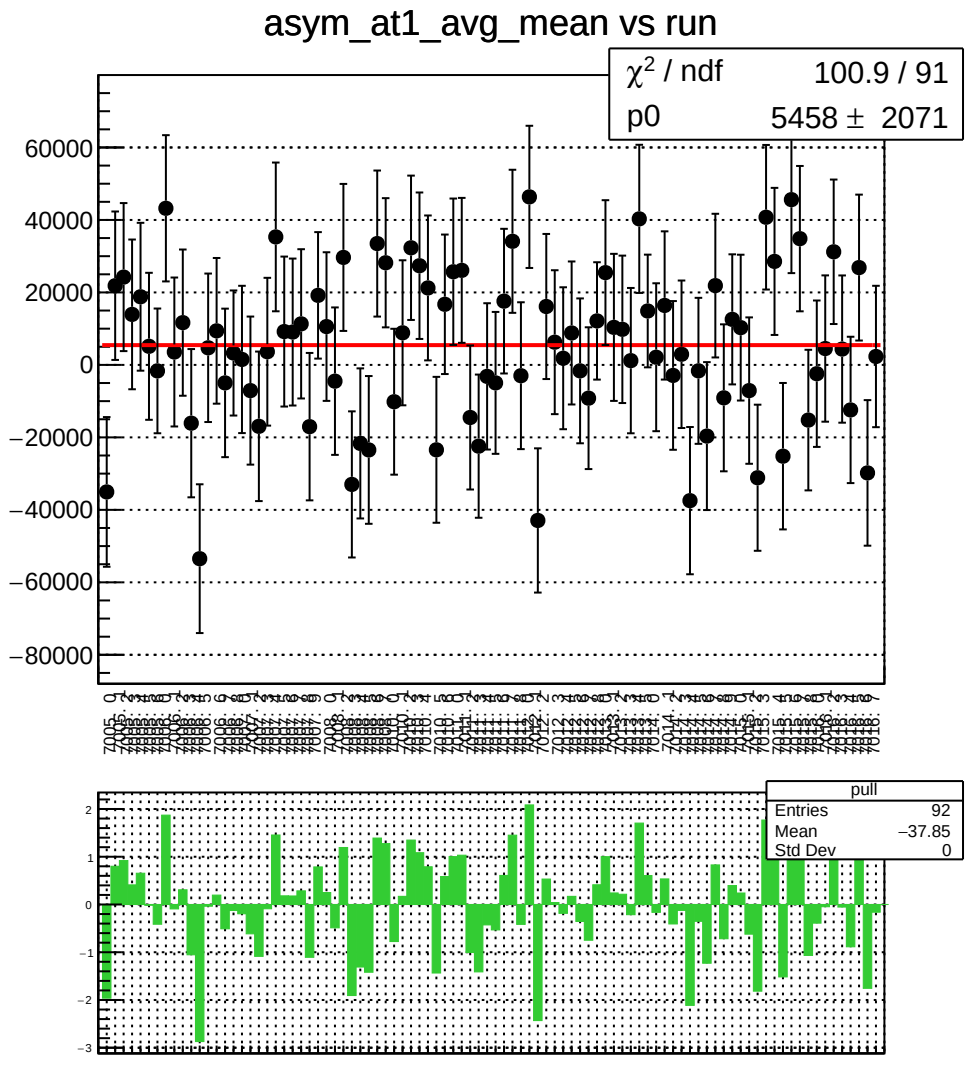

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 95.7 / 91
p0 3593 ± 1969
pull
Entries 92
Mean −4.228
Std Dev 50.25

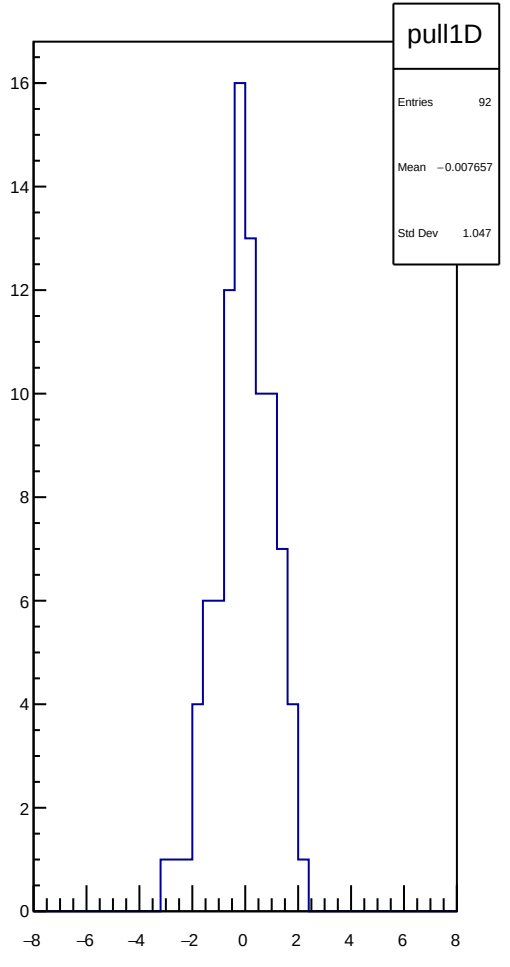

pull1D
Entries 92
Mean −0.007793
Std Dev 1.02

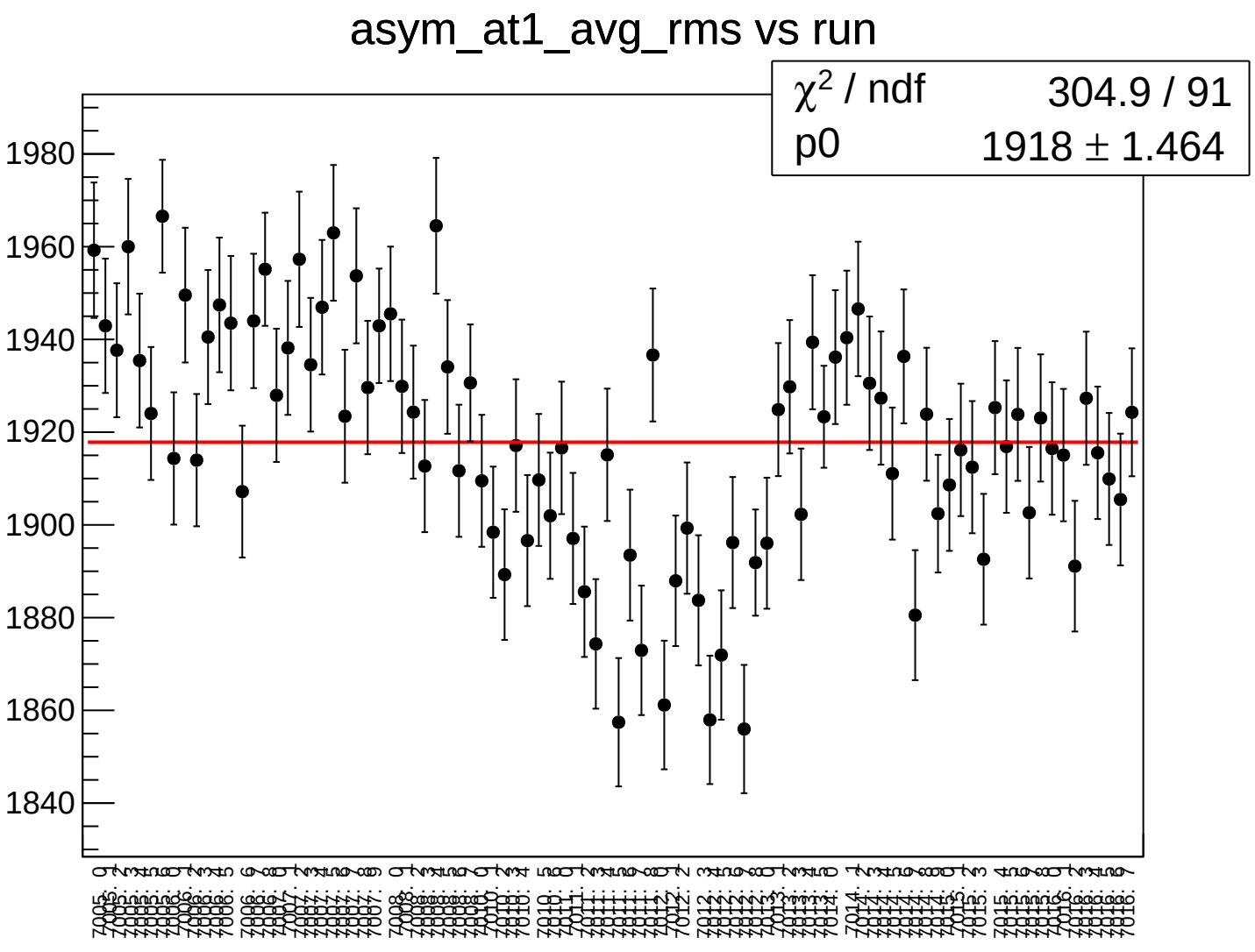

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 291.2 / 91
p0 1823 ± 1.392
1900
1880
1860
1840
1820
1800
1780
1760

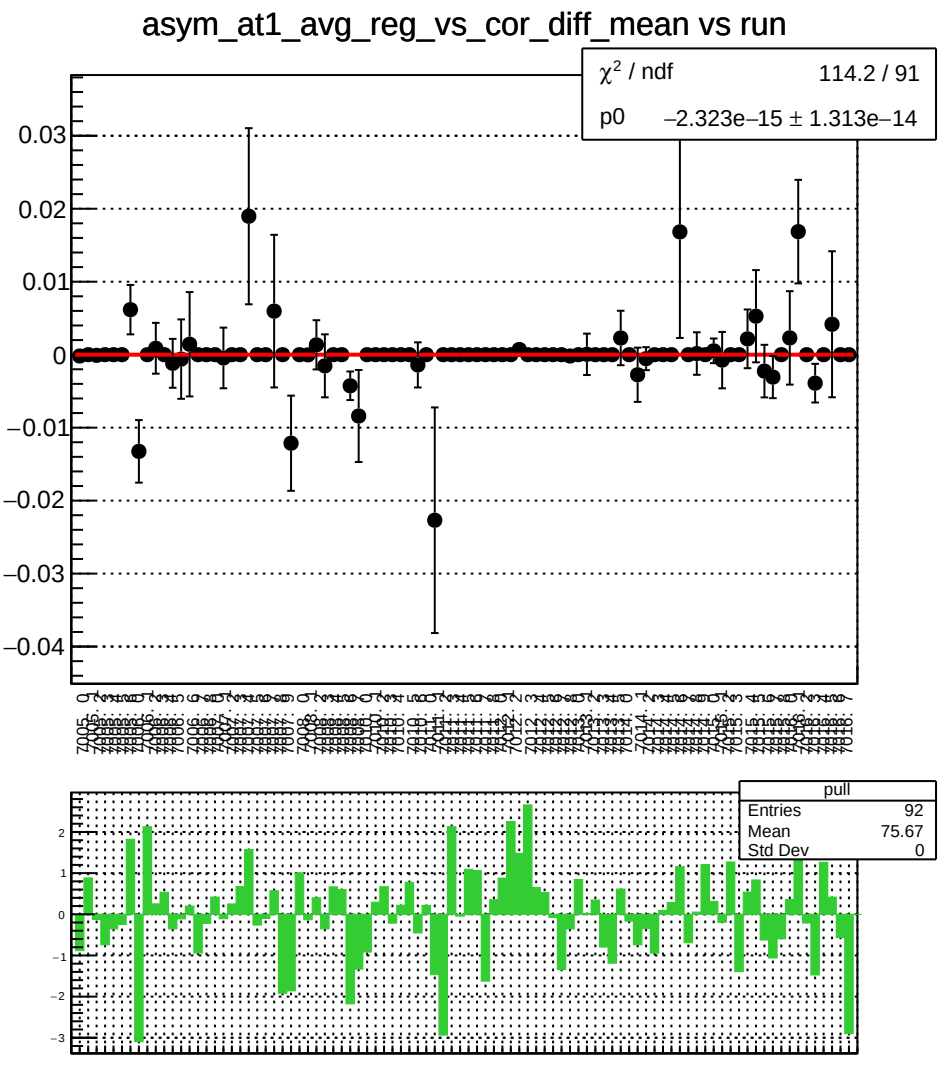

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.26 / 91
p0 −1864 ± 665.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −601.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.001207
Std Dev 0.9683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

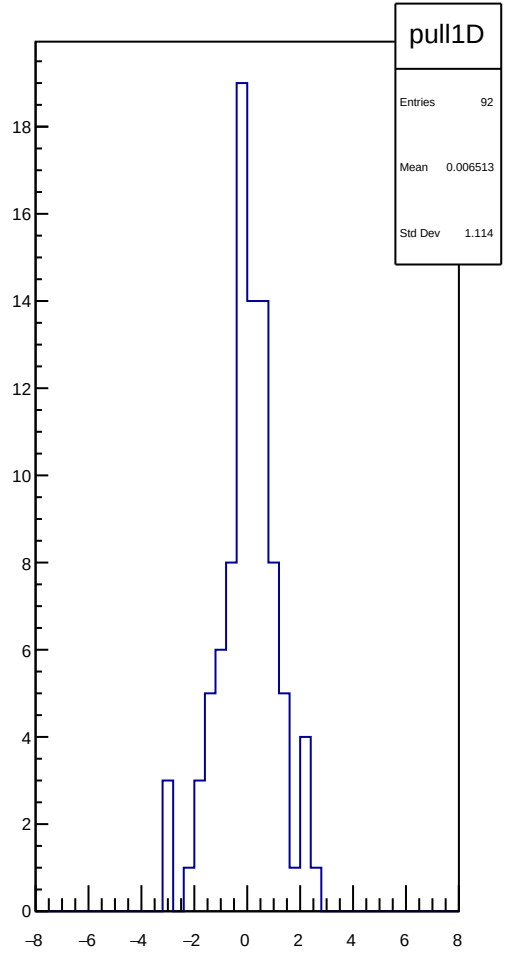

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6371 / 91
p0 615 ± 0.4704
700
680
660
640
620
600
580
560
540
520

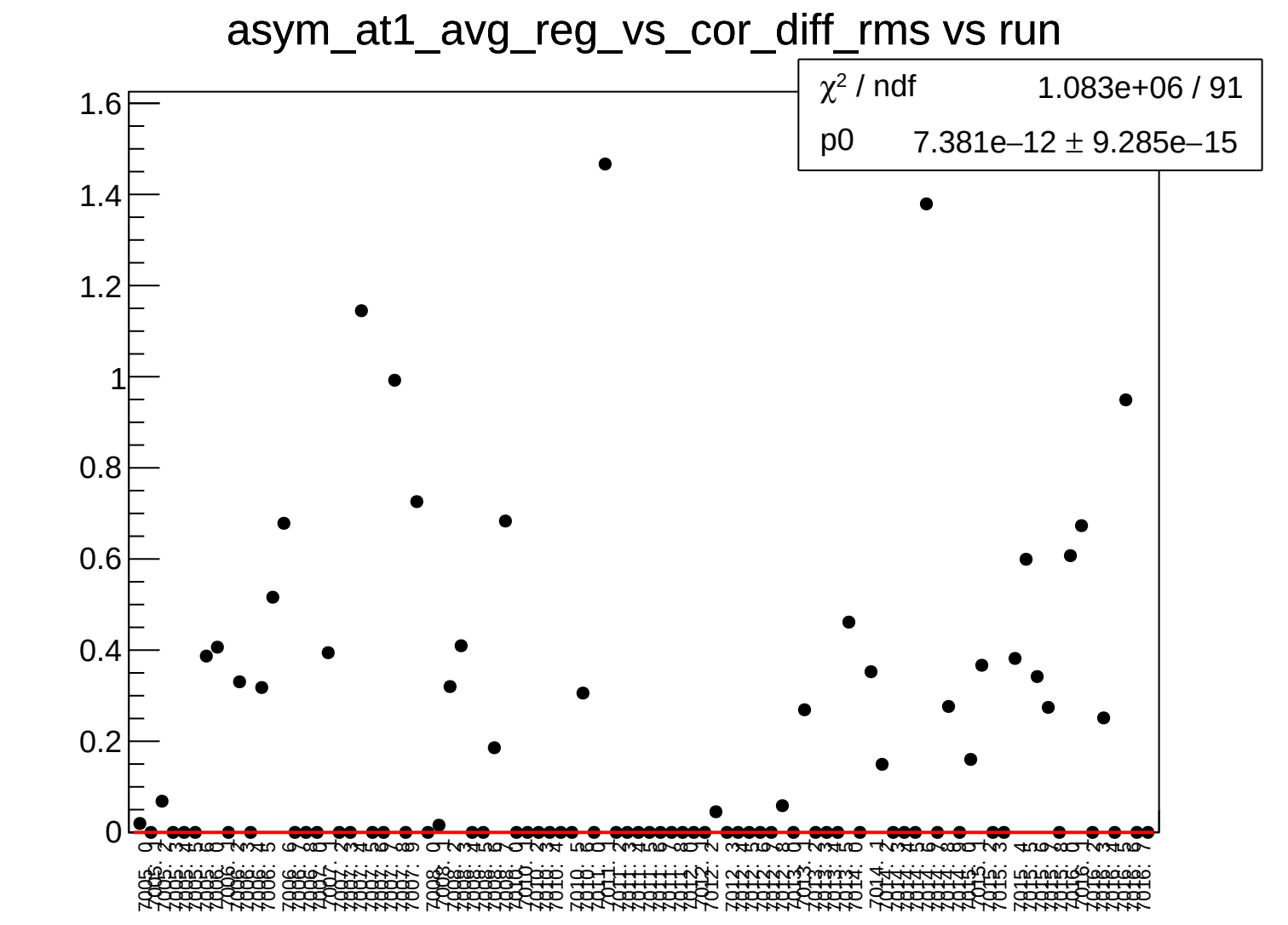

asym_at1_avg_mean vs run
χ² / ndf 100.9 / 91
p0 5458 ± 2071
pull
Entries 92
Mean −37.85
Std Dev 0

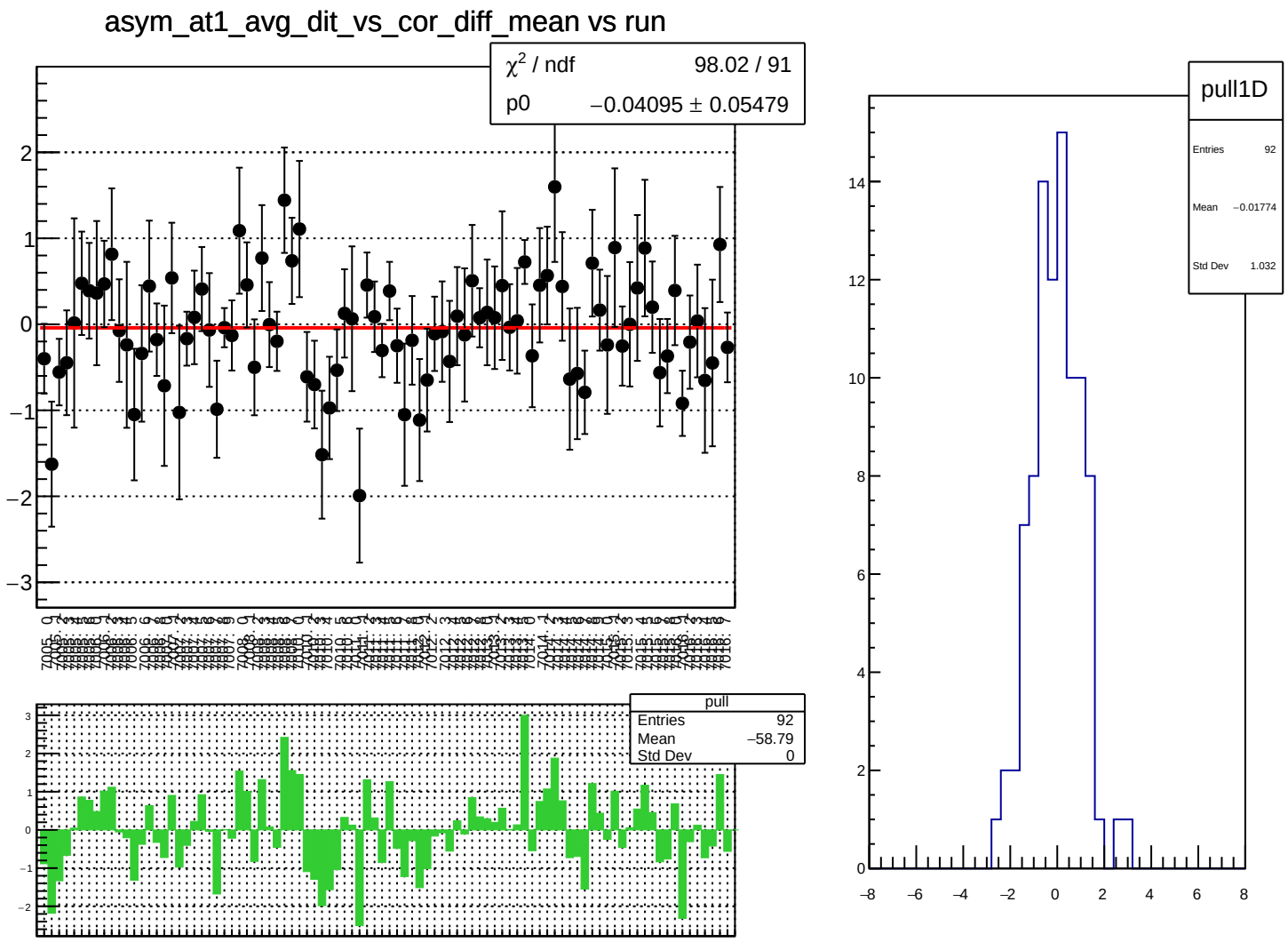

pull1D
Entries 92
Mean −0.007657
Std Dev 1.047

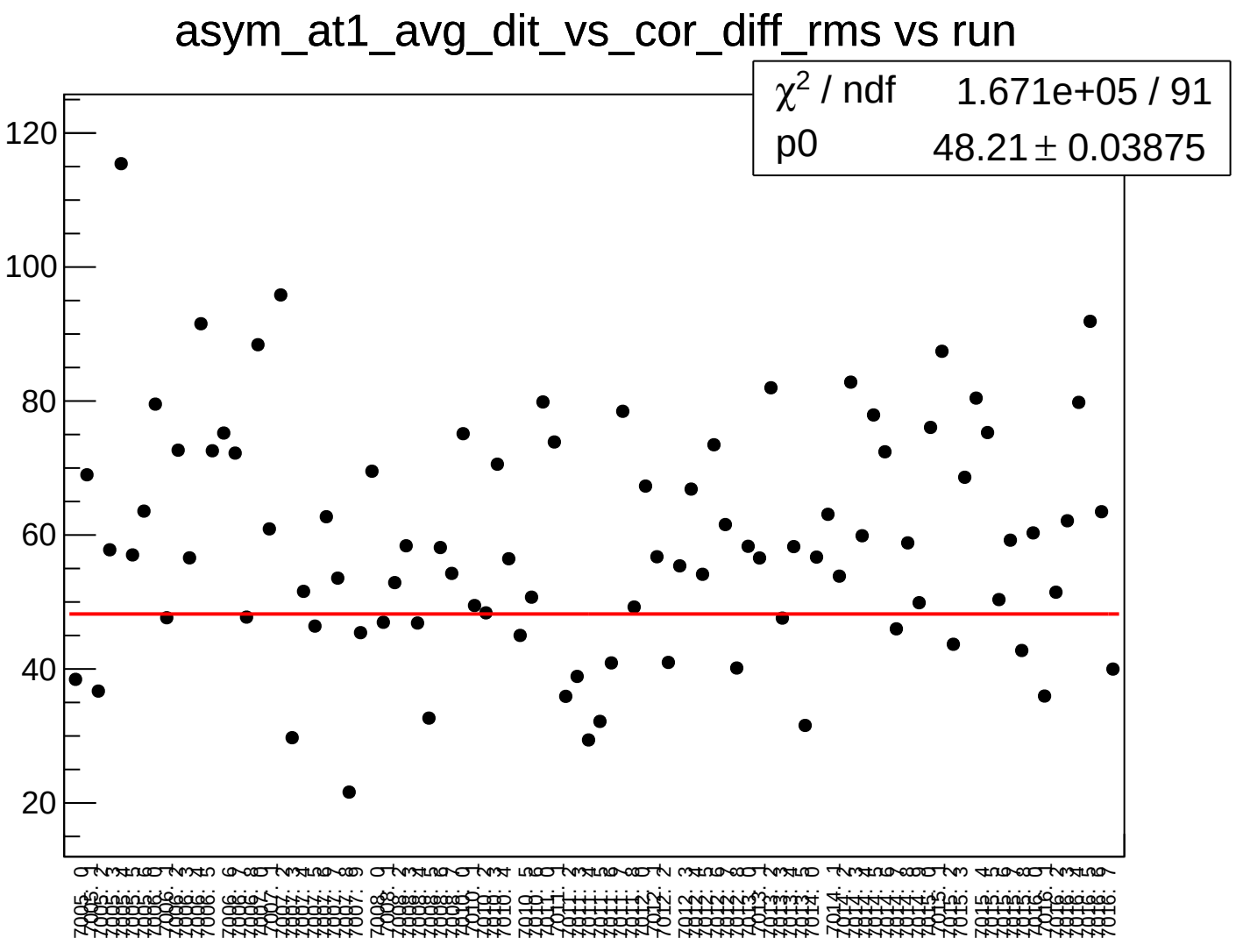

asym_at1_avg_rms vs run
χ² / ndf 304.9 / 91
p0 1918 ± 1.464
1980
1960
1940
1920
1900
1880
1860
1840

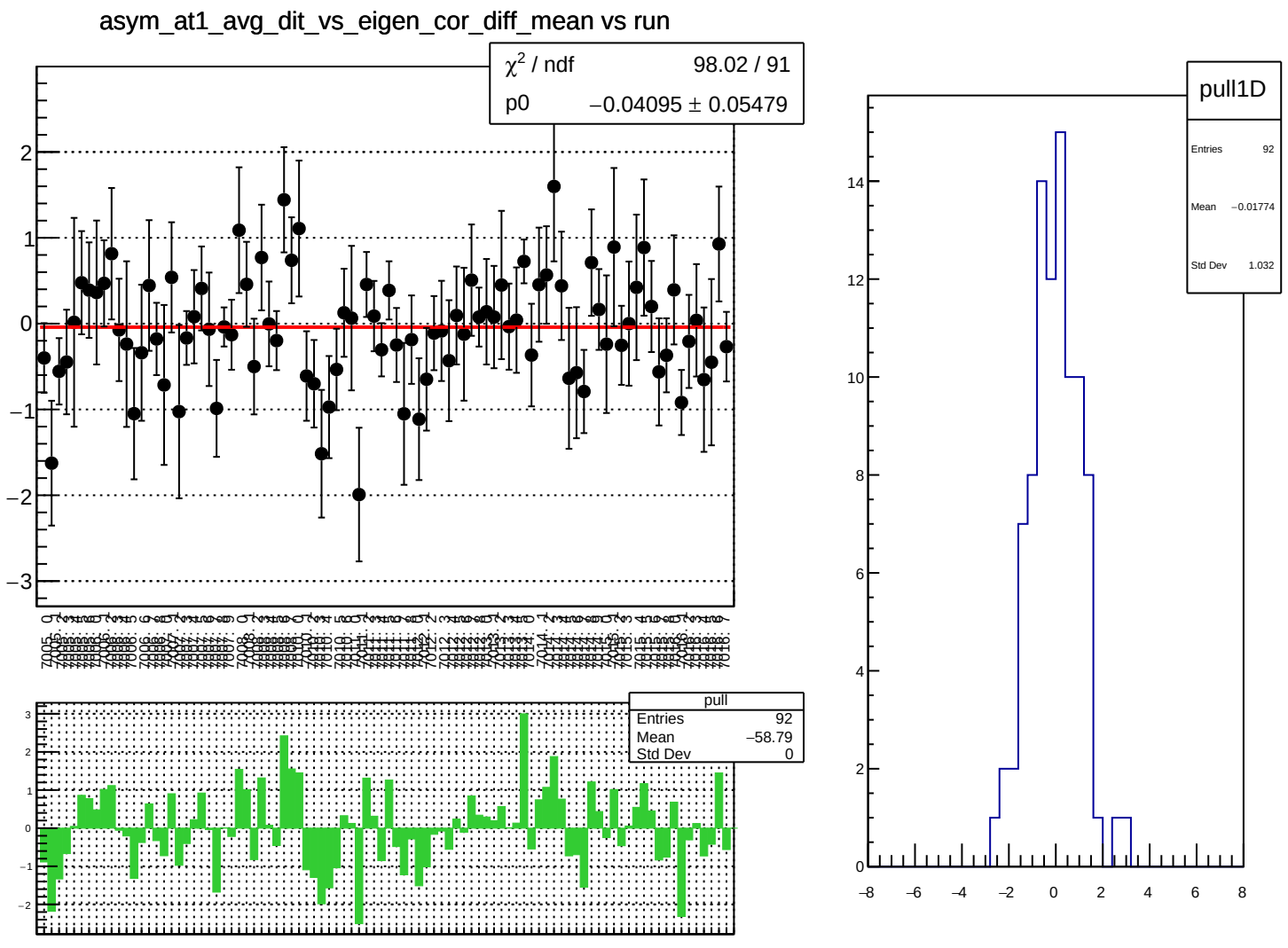

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114.2 / 91
p0 −2.323e−15 ± 1.313e−14
pull
Entries 92
Mean 75.67
Std Dev 0

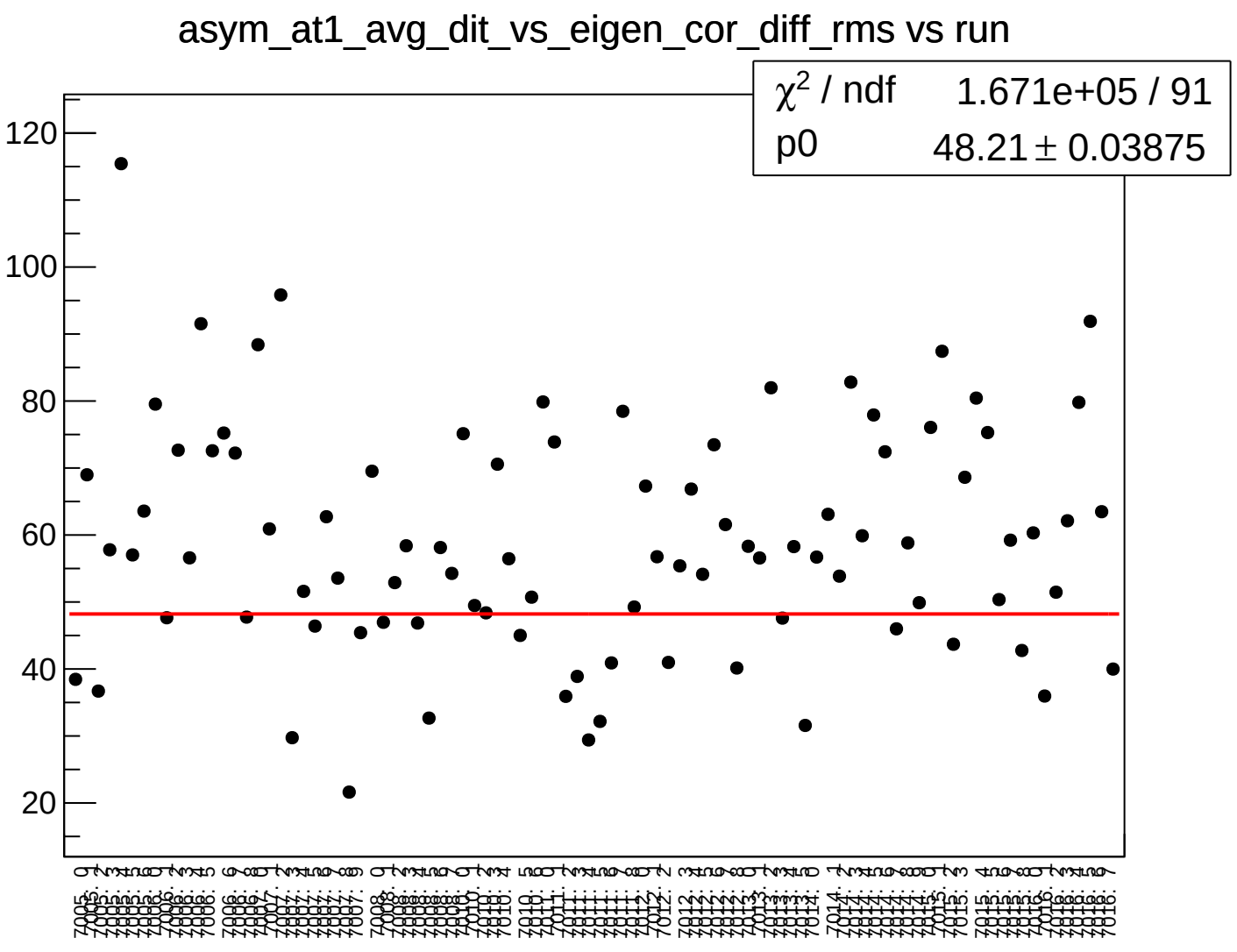

pull1D
Entries 92
Mean 0.006513
Std Dev 1.114

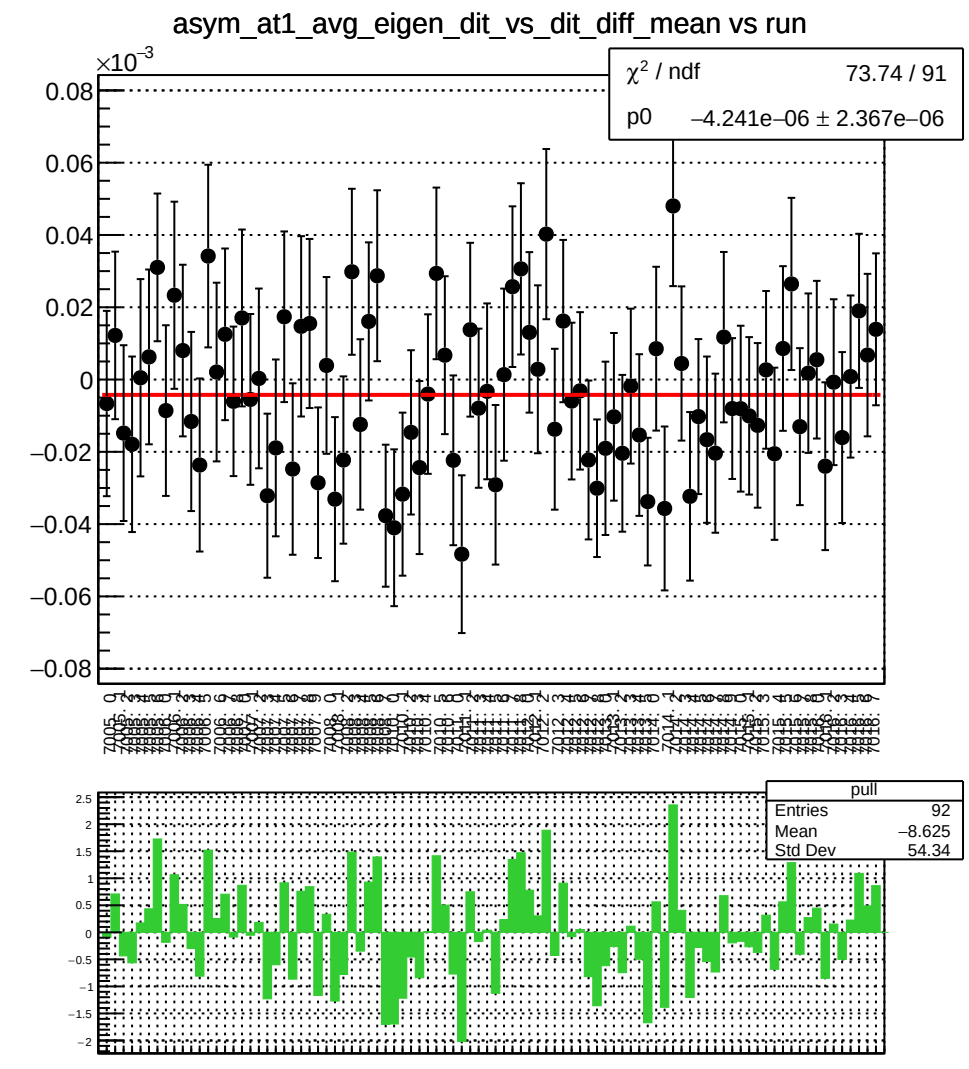

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.083e+06 / 91
p0 7.381e−12 ± 9.285e−15
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

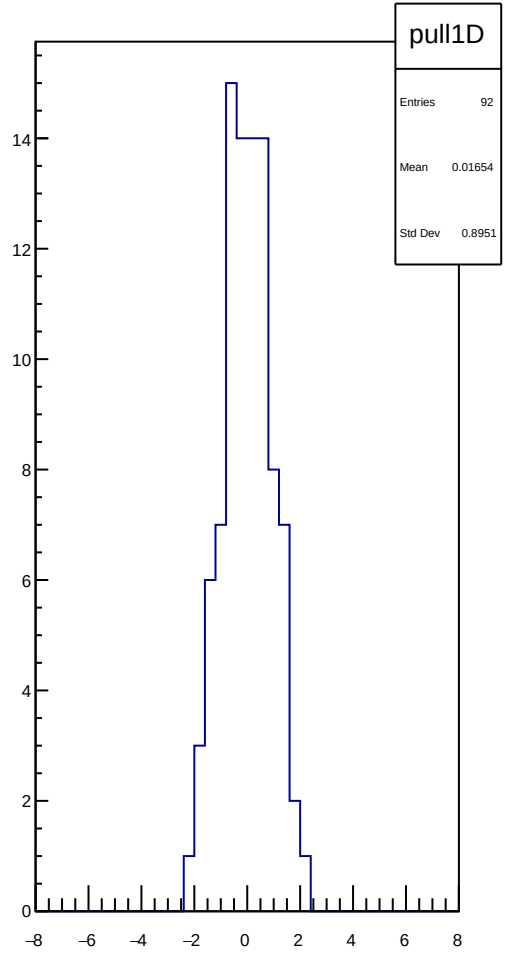

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.02 / 91
p0 −0.04095 ± 0.05479
pull
Entries 92
Mean −58.79
Std Dev 0
pull1D
Entries 92
Mean −0.01774
Std Dev 1.032

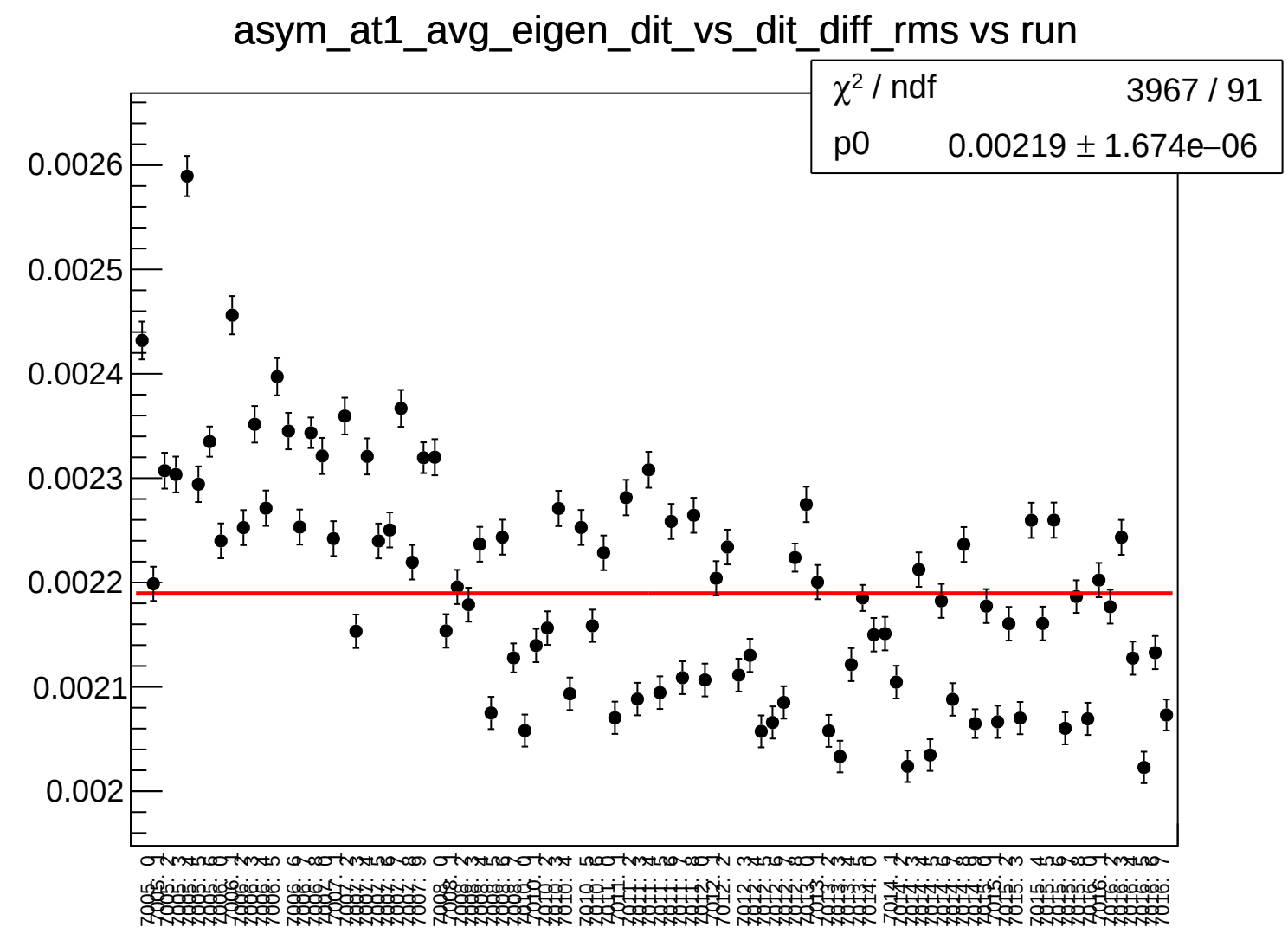

asym_at1_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.671e+05 / 91
p0 48.21 ± 0.03875
120
100
80
60
40
20

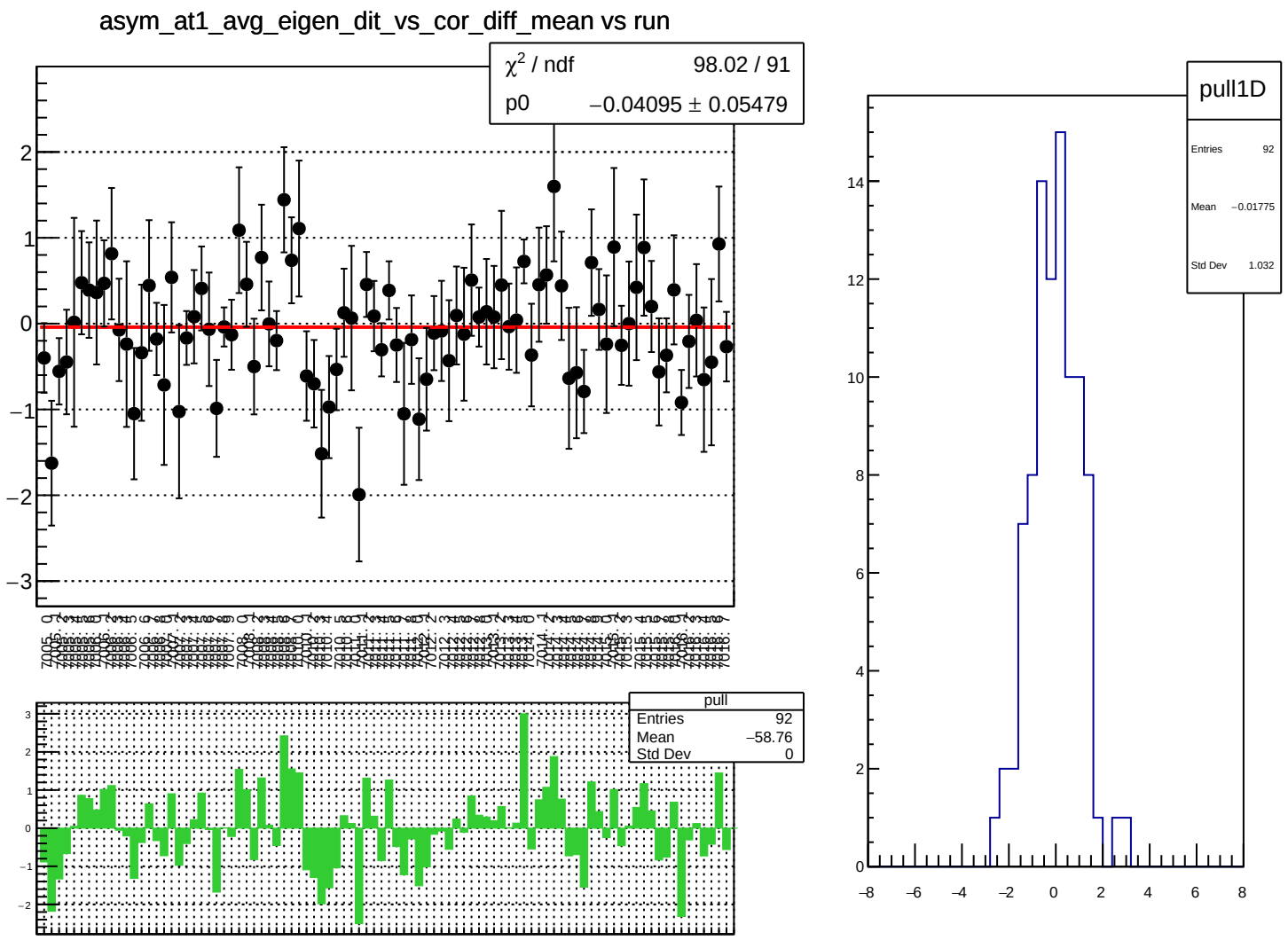

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.02 / 91
p0 −0.04095 ± 0.05479
pull
Entries 92
Mean −58.79
Std Dev 0
pull1D
Entries 92
Mean −0.01774
Std Dev 1.032

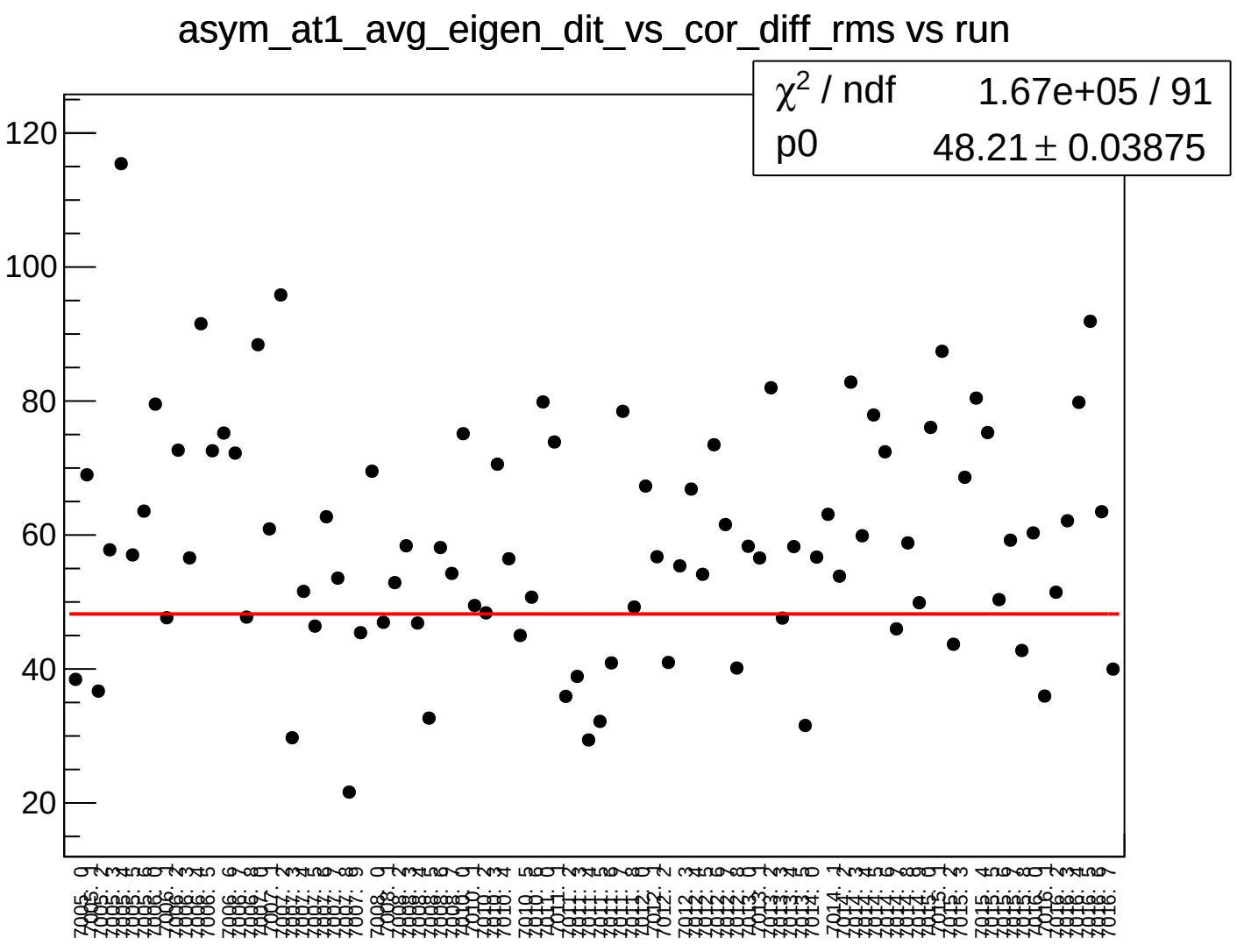

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.671e+05 / 91
p0 48.21 ± 0.03875
120
100
80
60
40
20

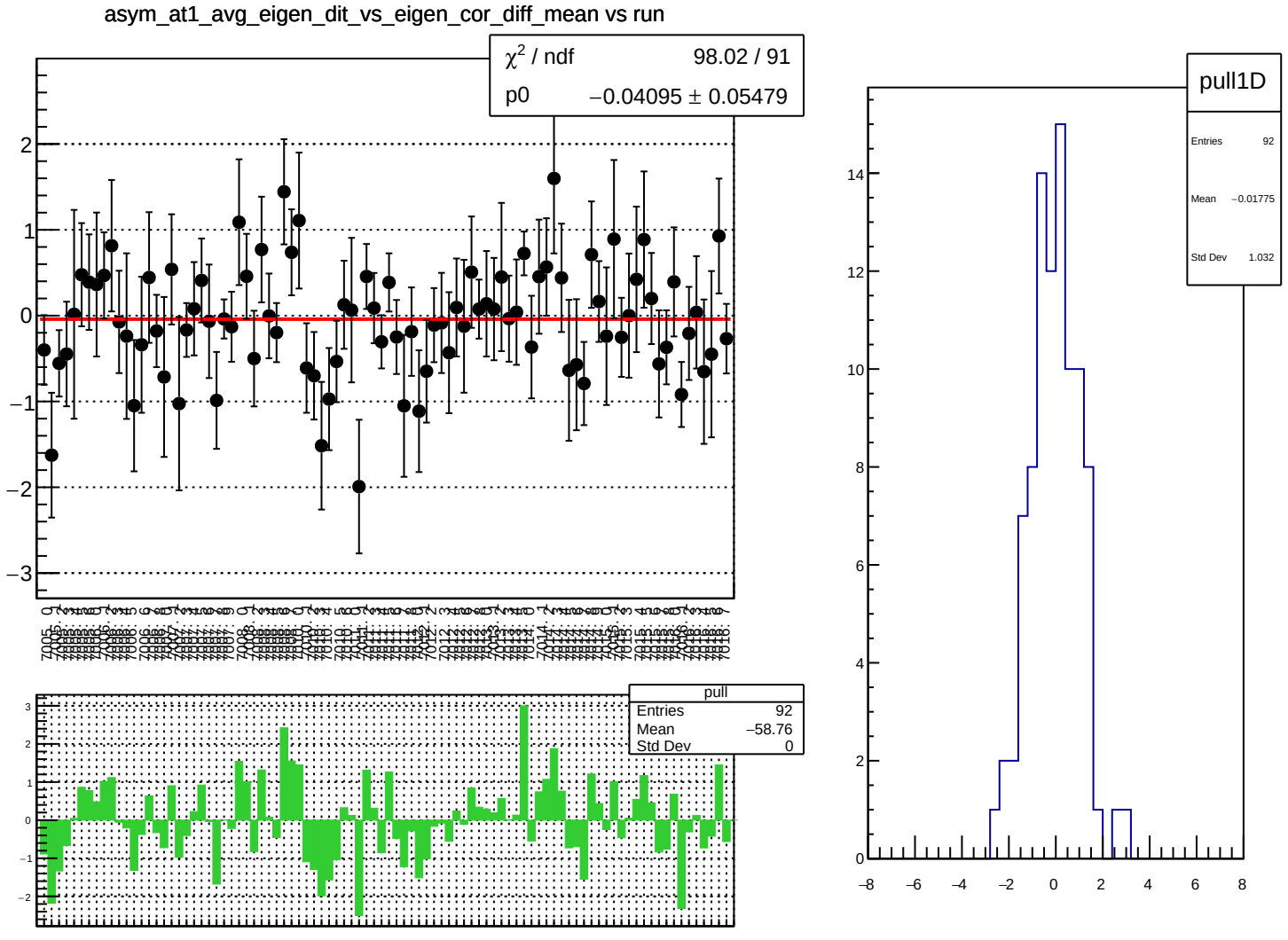

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.74 / 91
p0 –4.241e–06 ± 2.367e–06
pull
Entries 92
Mean –8.625
Std Dev 54.34

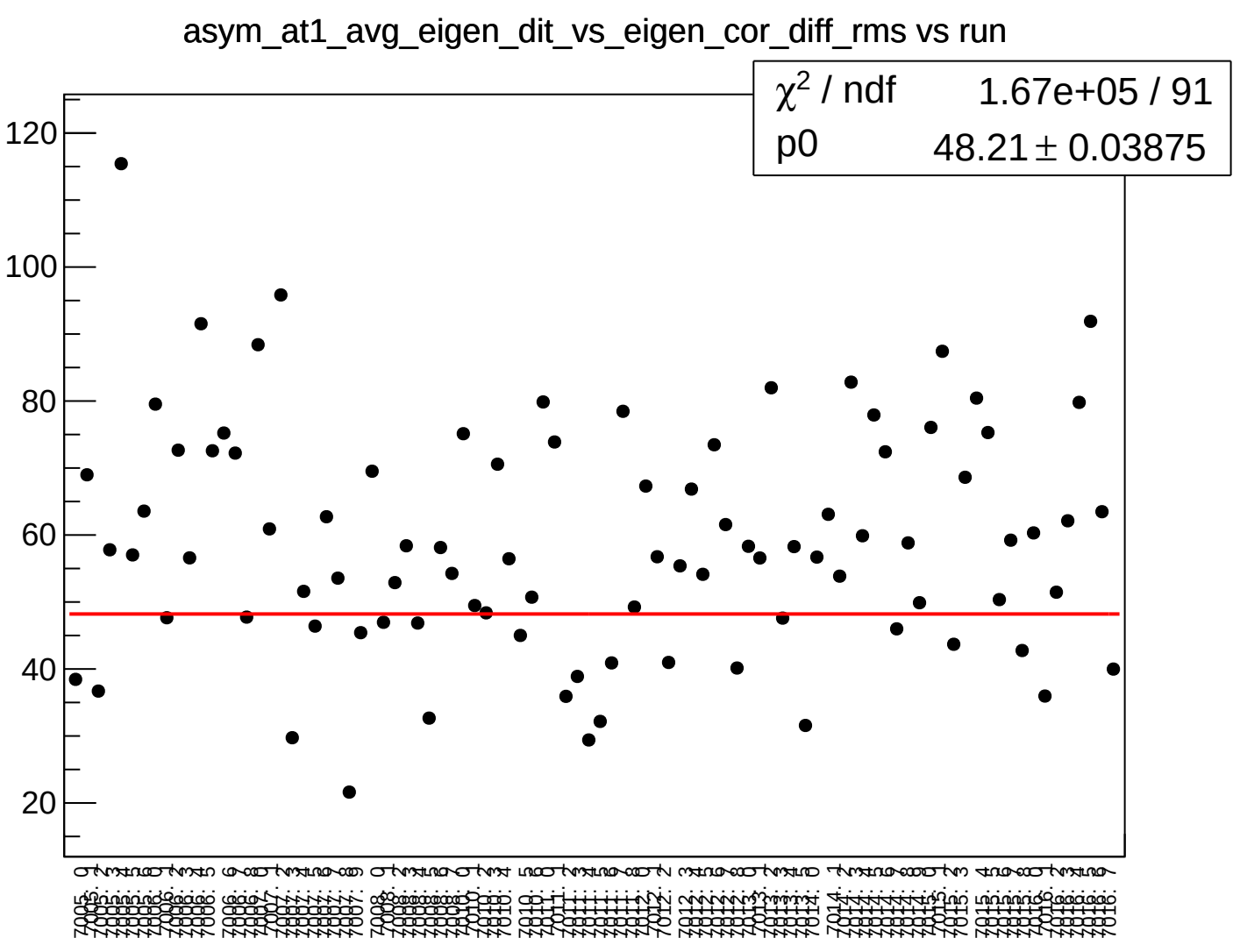

pull1D
Entries 92
Mean 0.01654
Std Dev 0.8951

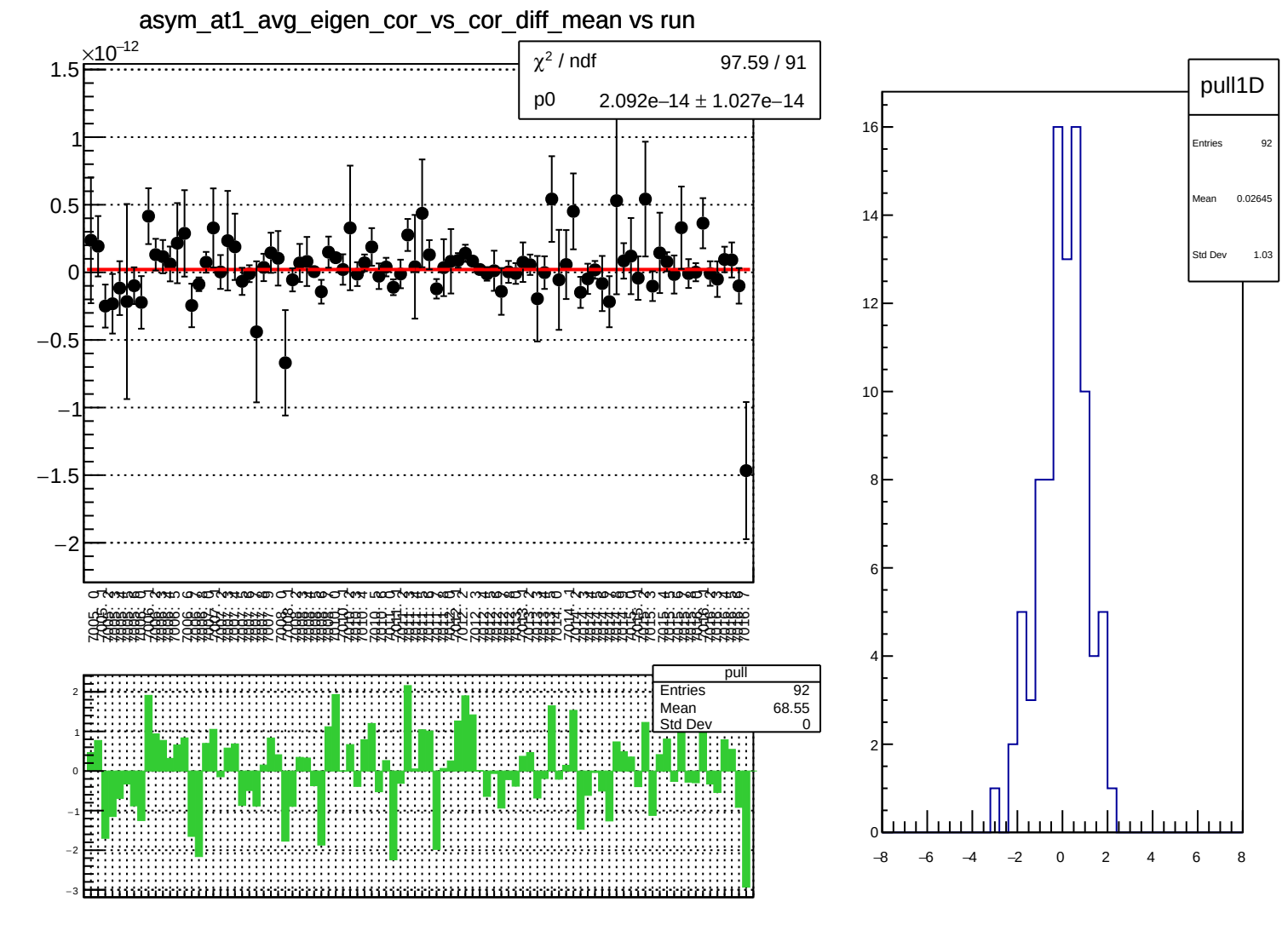

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3967 / 91
p0 0.00219 ± 1.674e–06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

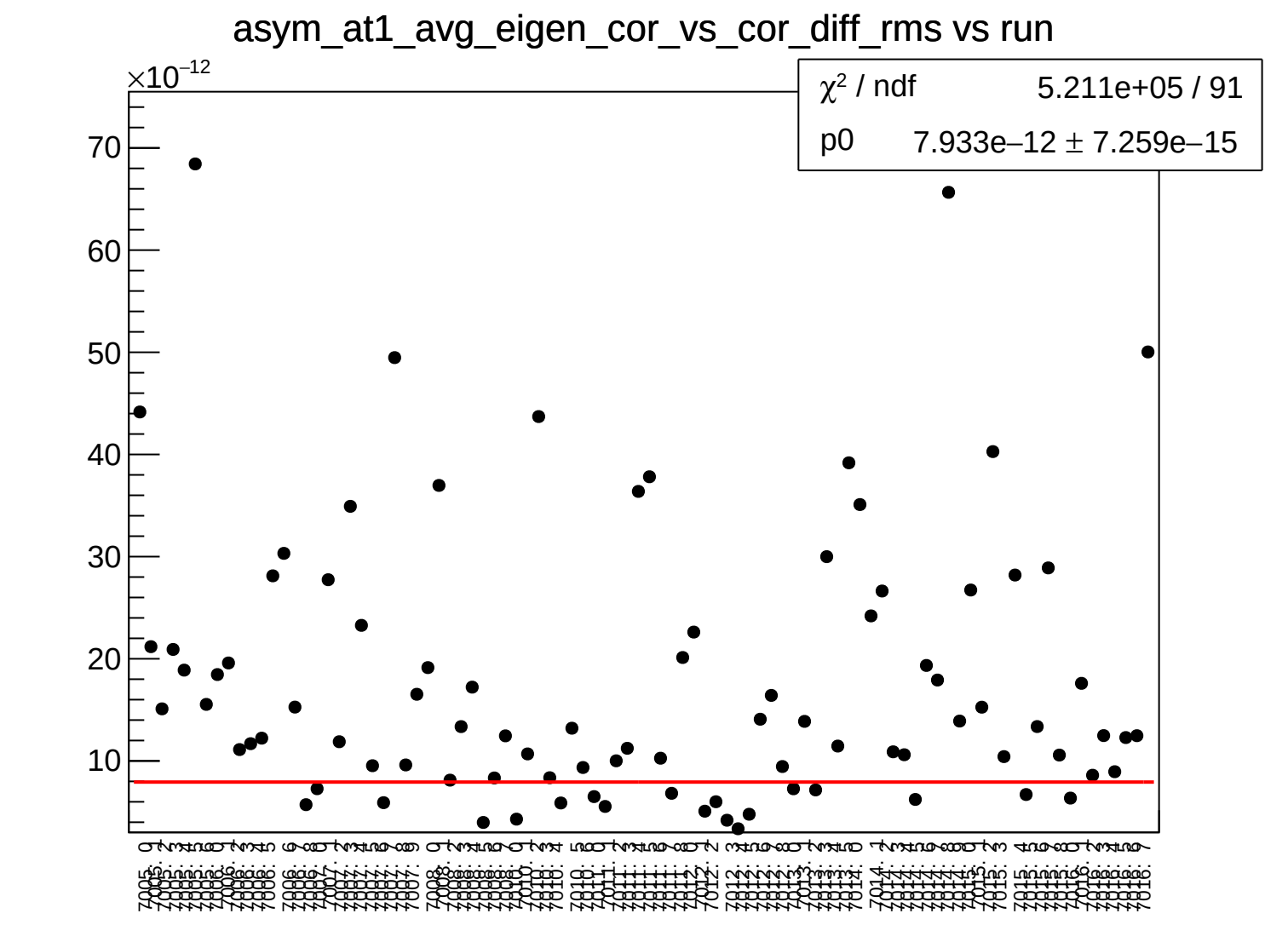

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.02 / 91
p0 −0.04095 ± 0.05479
pull
Entries 92
Mean −58.76
Std Dev 0
pull1D
Entries 92
Mean −0.01775
Std Dev 1.032

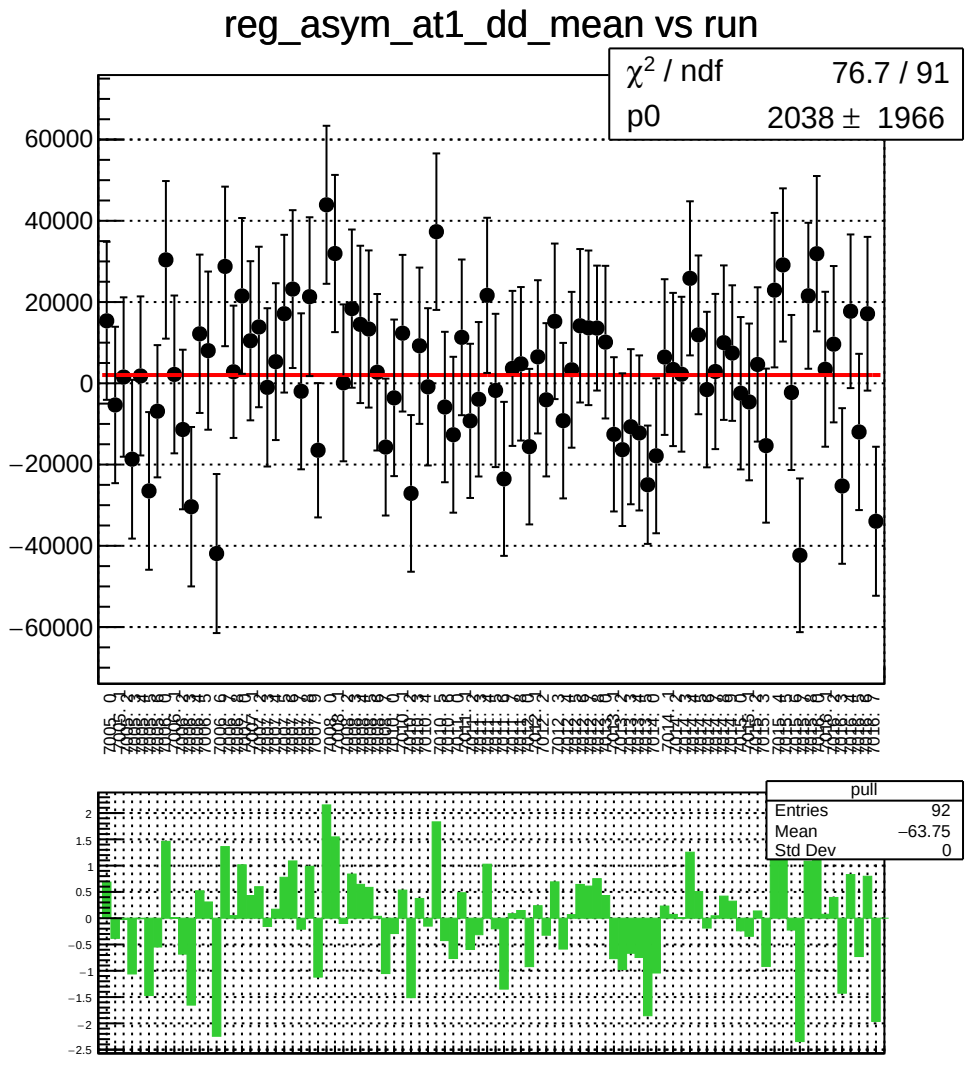

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.67e+05 / 91
p0 48.21 ± 0.03875
120
100
80
60
40
20

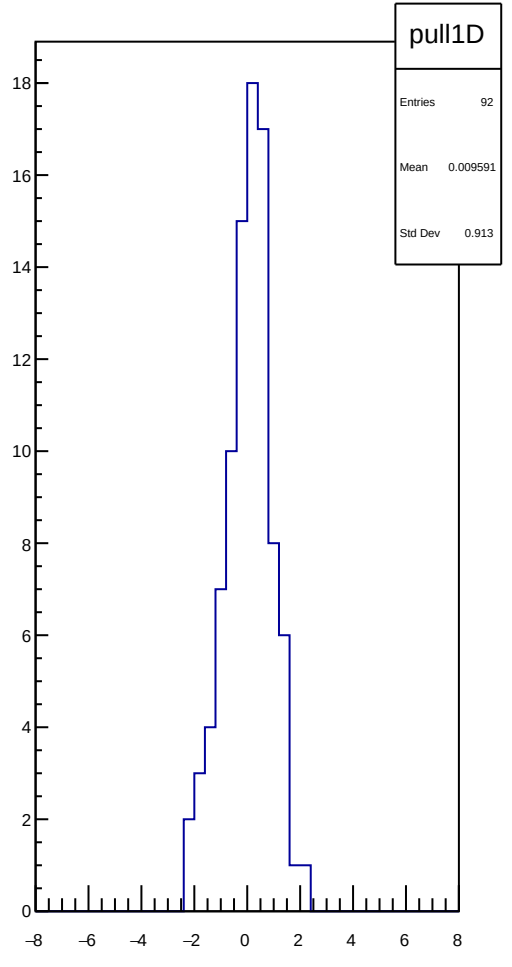

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.02 / 91
p0 −0.04095 ± 0.05479
pull
Entries 92
Mean −58.76
Std Dev 0
pull1D
Entries 92
Mean −0.01775
Std Dev 1.032

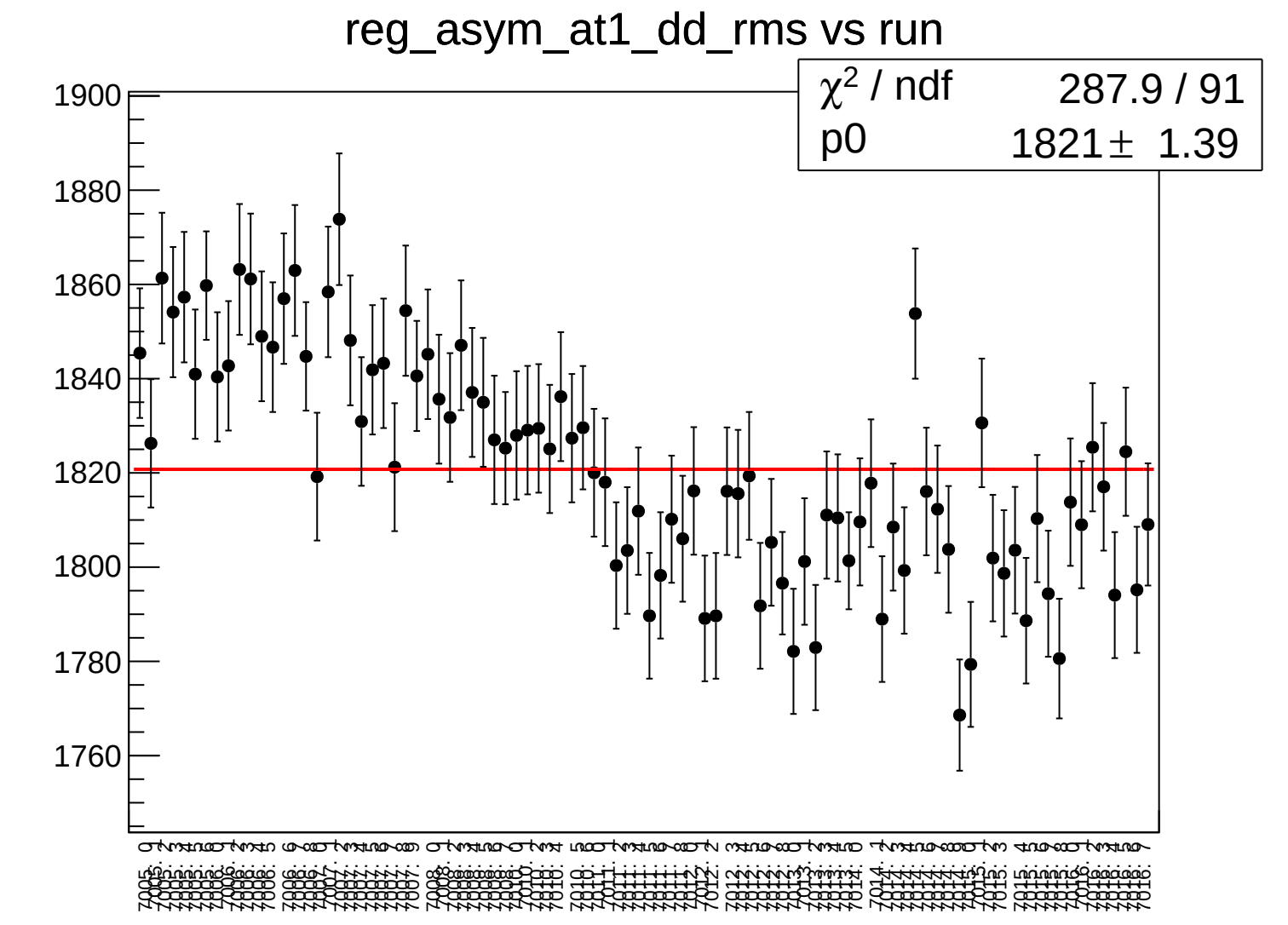

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.67e+05 / 91
p0 48.21 ± 0.03875
120
100
80
60
40
20

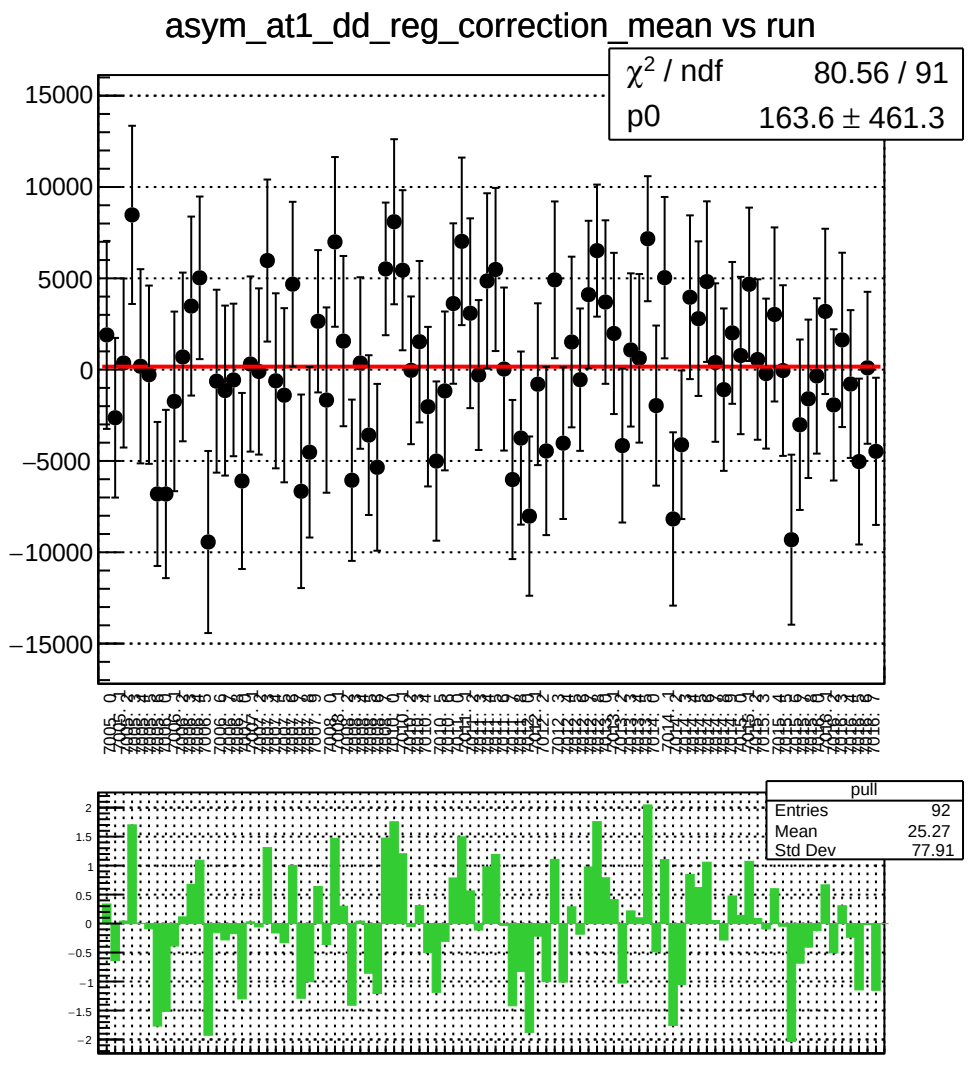

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.59 / 91
p0 2.092e−14 ± 1.027e−14
pull
Entries 92
Mean 68.55
Std Dev 0
pull1D
Entries 92
Mean 0.02645
Std Dev 1.03

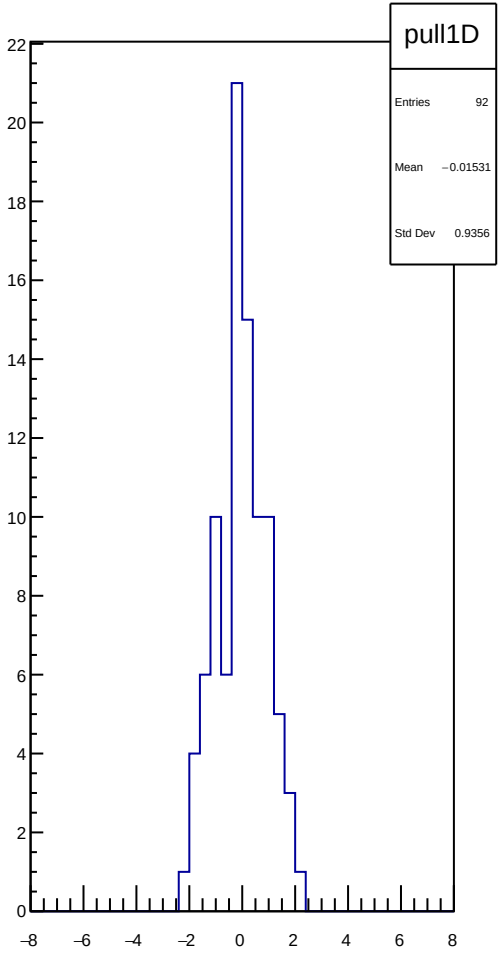

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.211e+05 / 91
p0 7.933e−12 ± 7.259e−15
70
60
50
40
30
20
10

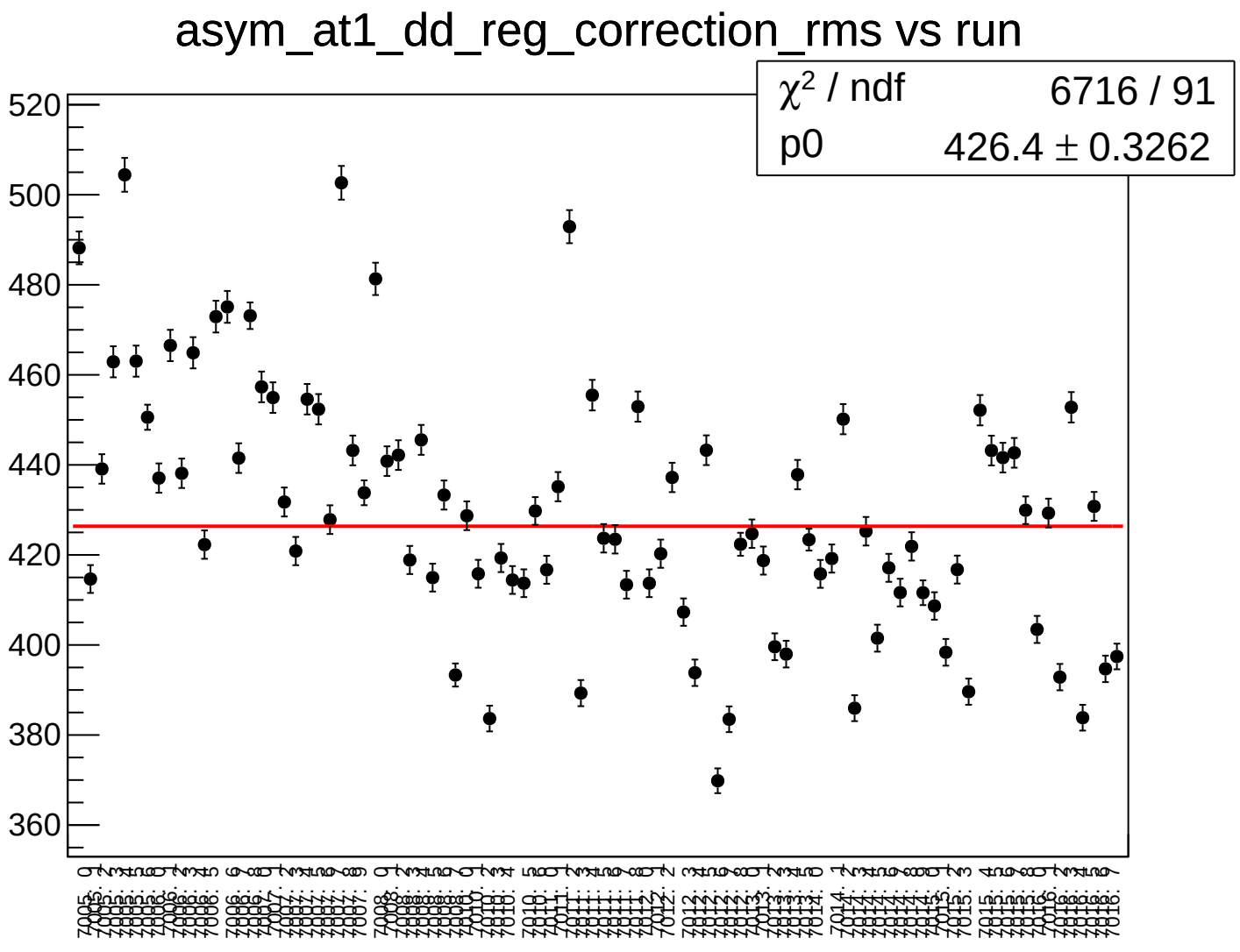

reg_asym_at1_dd_mean vs run
χ² / ndf 76.7 / 91
p0 2038 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −63.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

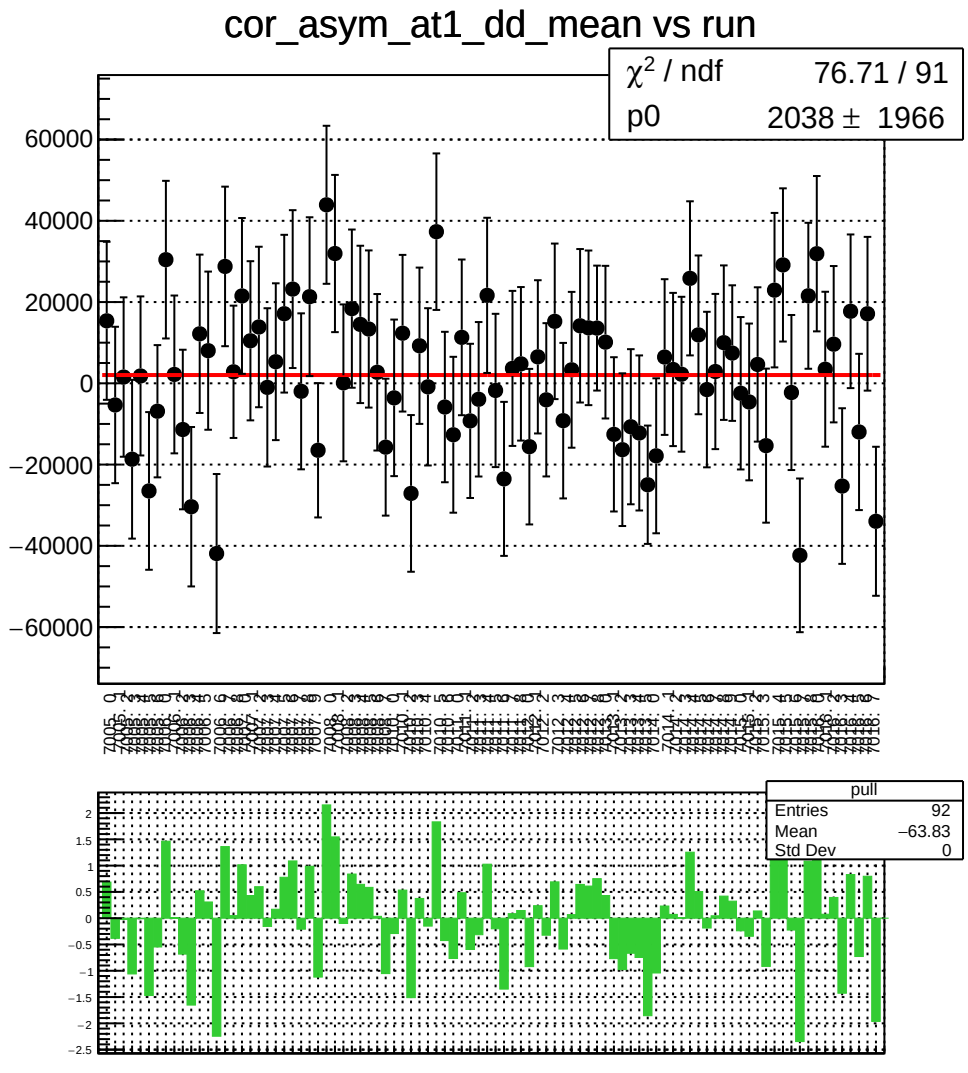

pull1D
Entries 92
Mean 0.009591
Std Dev 0.913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

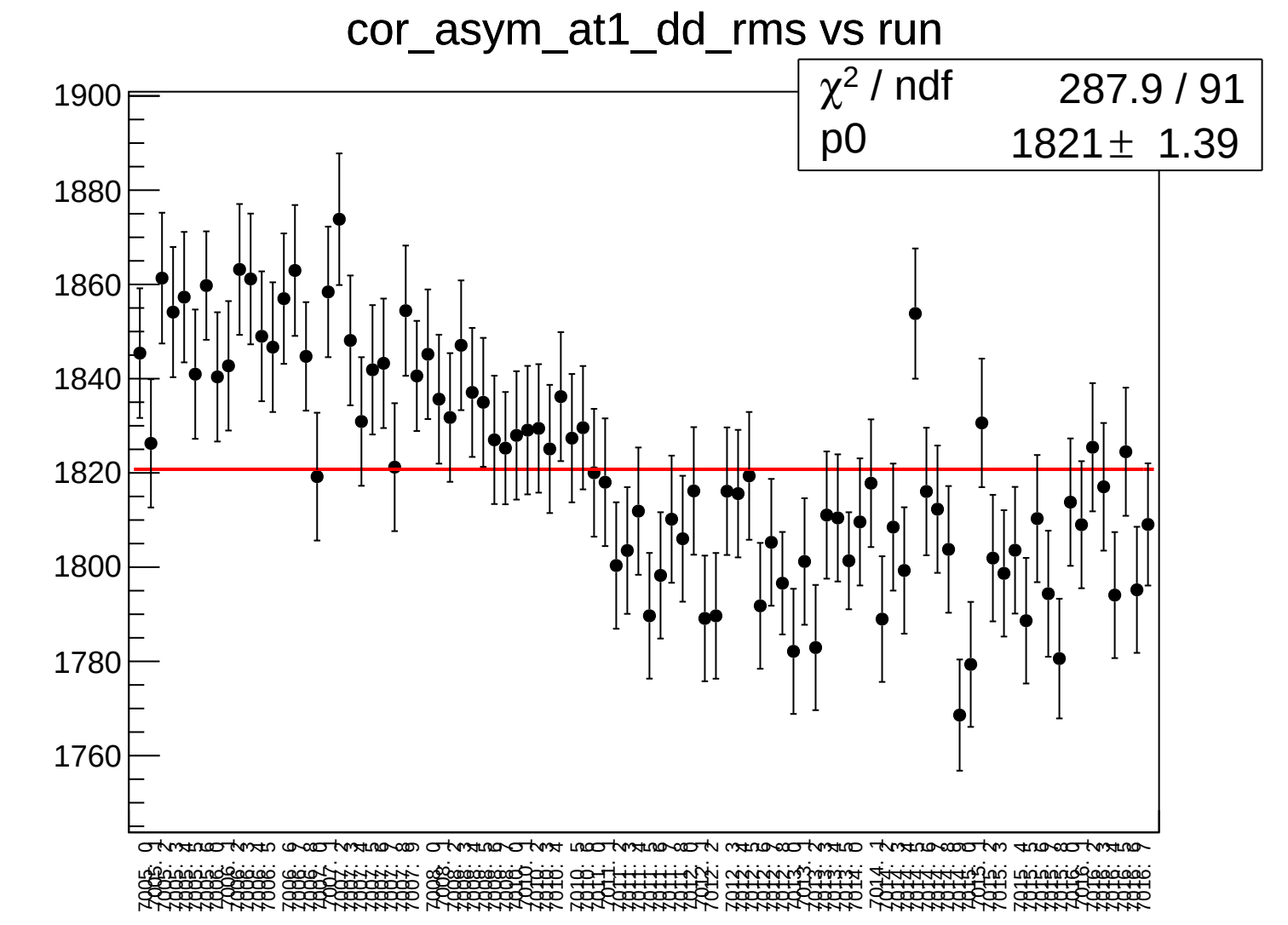

reg_asym_at1_dd_rms vs run
χ² / ndf 287.9 / 91
p0 1821 ± 1.39
1900
1880
1860
1840
1820
1800
1780
1760

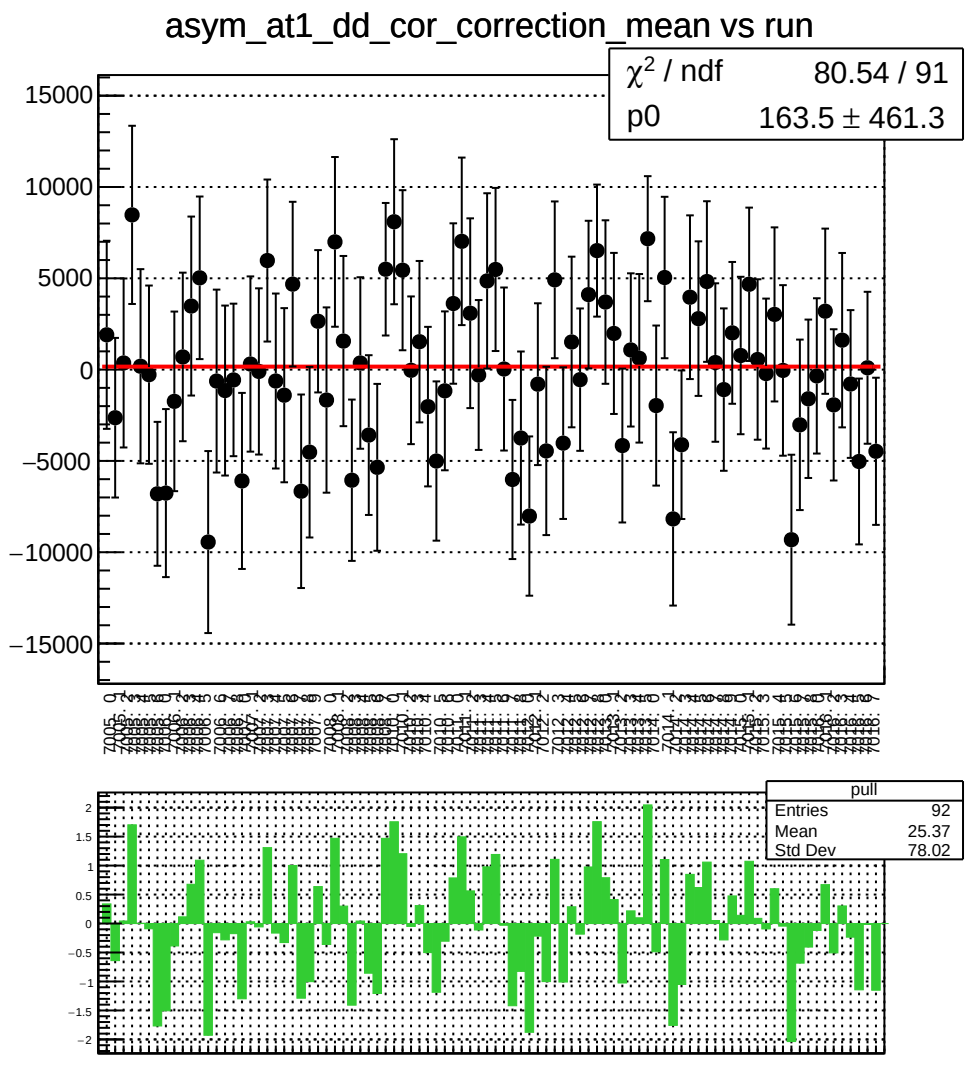

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 80.56 / 91
p0 163.6 ± 461.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 25.27
Std Dev 77.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

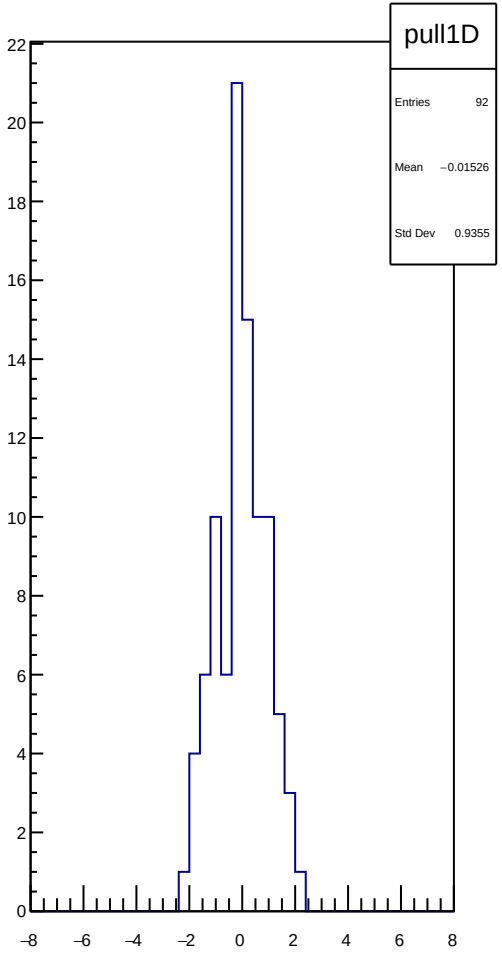

pull1D
Entries 92
Mean −0.01531
Std Dev 0.9356
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

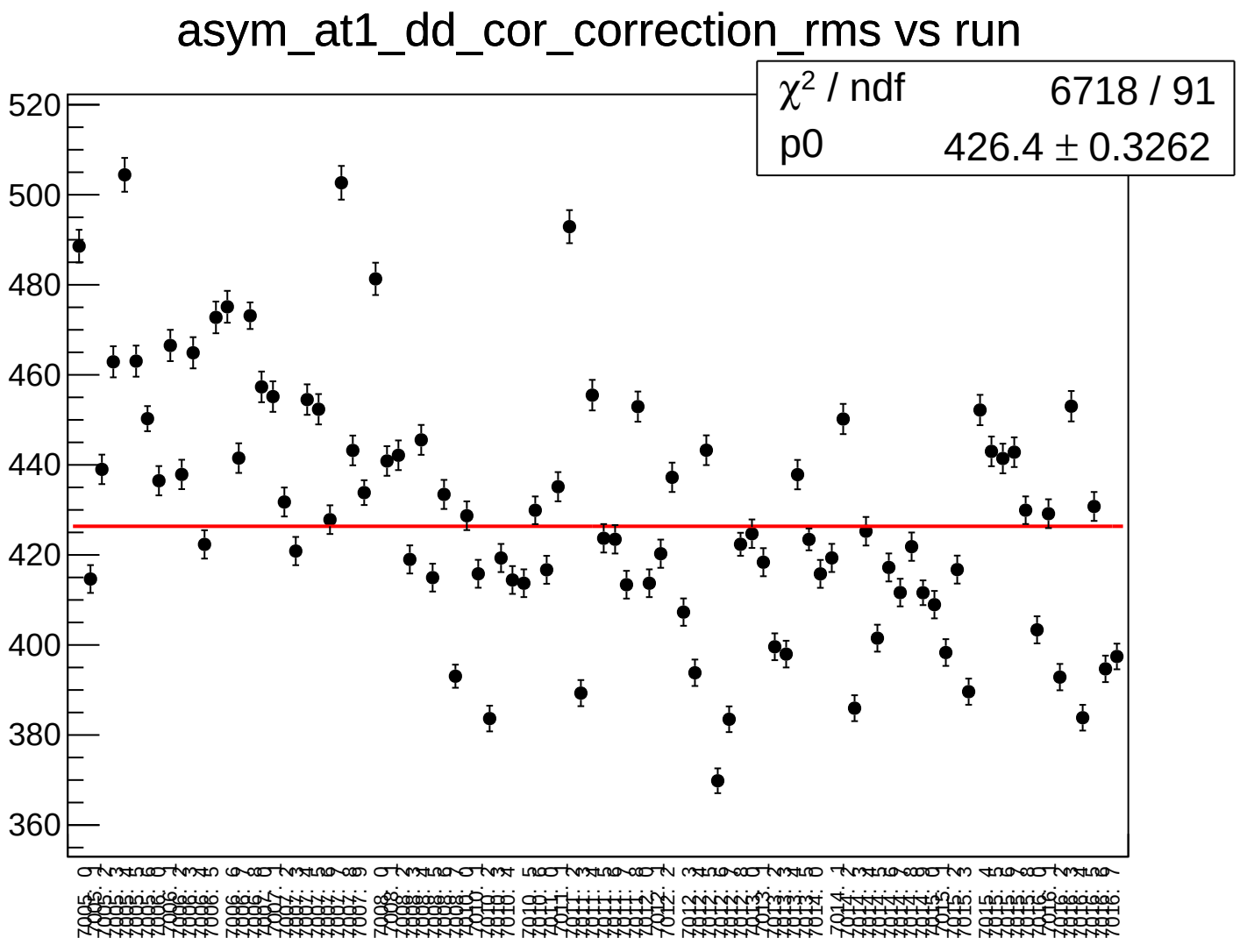

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 6716 / 91
p0 426.4 ± 0.3262
520
500
480
460
440
420
400
380
360

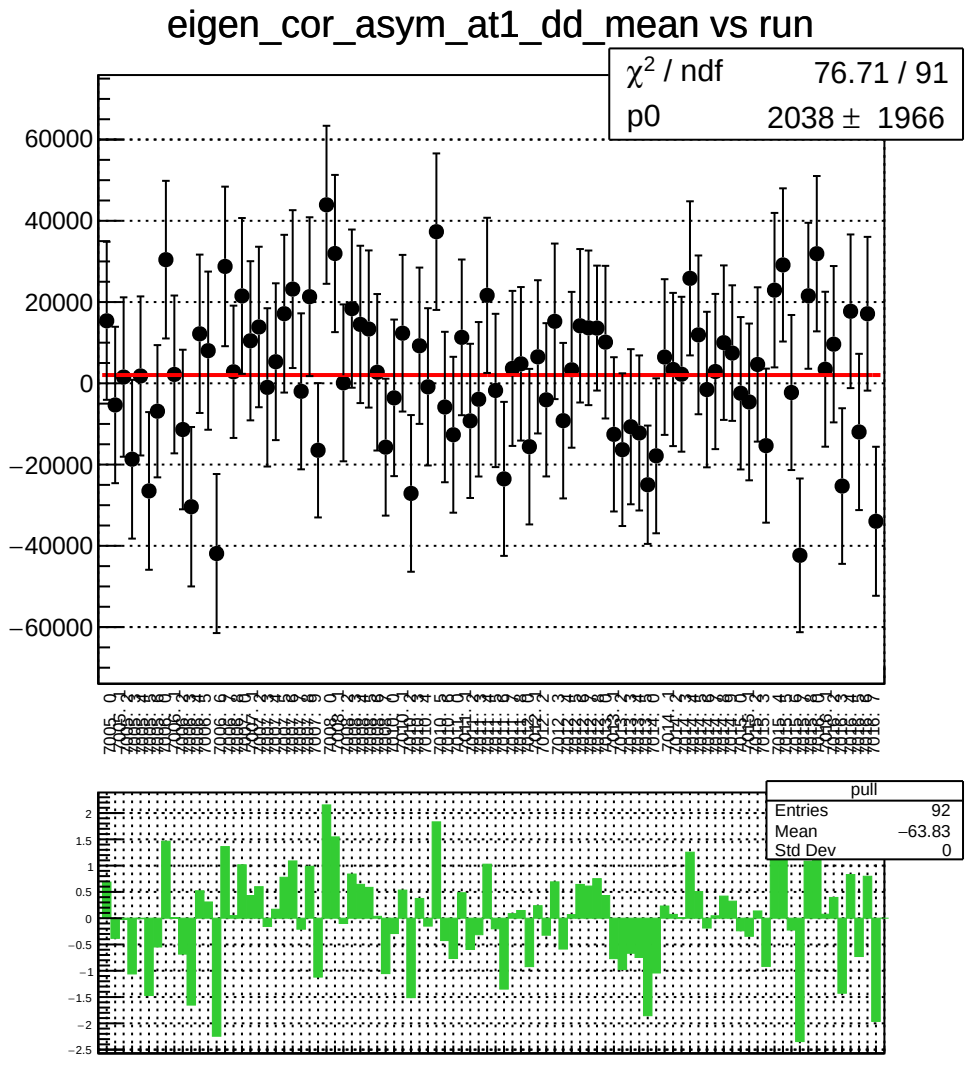

cor_asym_at1_dd_mean vs run
χ² / ndf 76.71 / 91
p0 2038 ± 1966
pull
Entries 92
Mean −63.83
Std Dev 0
pull1D
Entries 92
Mean 0.009593
Std Dev 0.9131

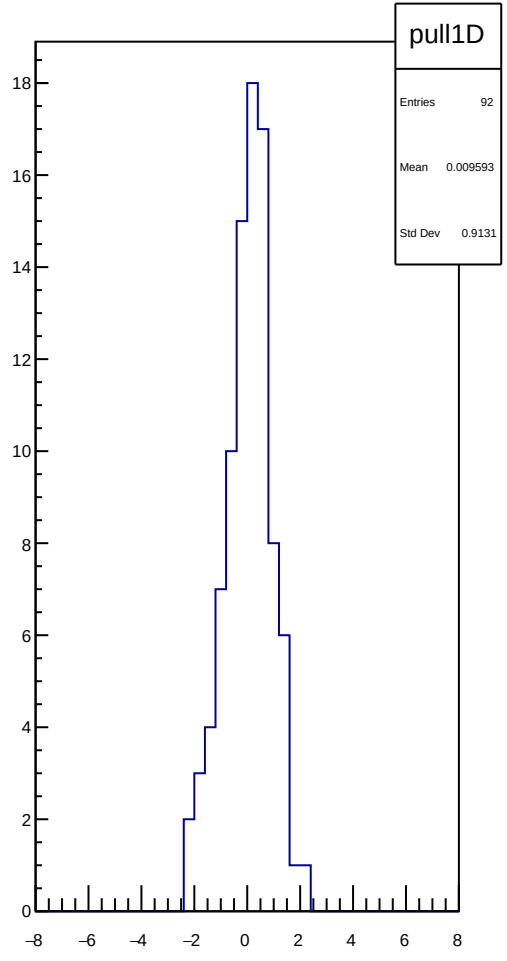

cor_asym_at1_dd_rms vs run
χ² / ndf 287.9 / 91
p0 1821 ± 1.39
1900
1880
1860
1840
1820
1800
1780
1760

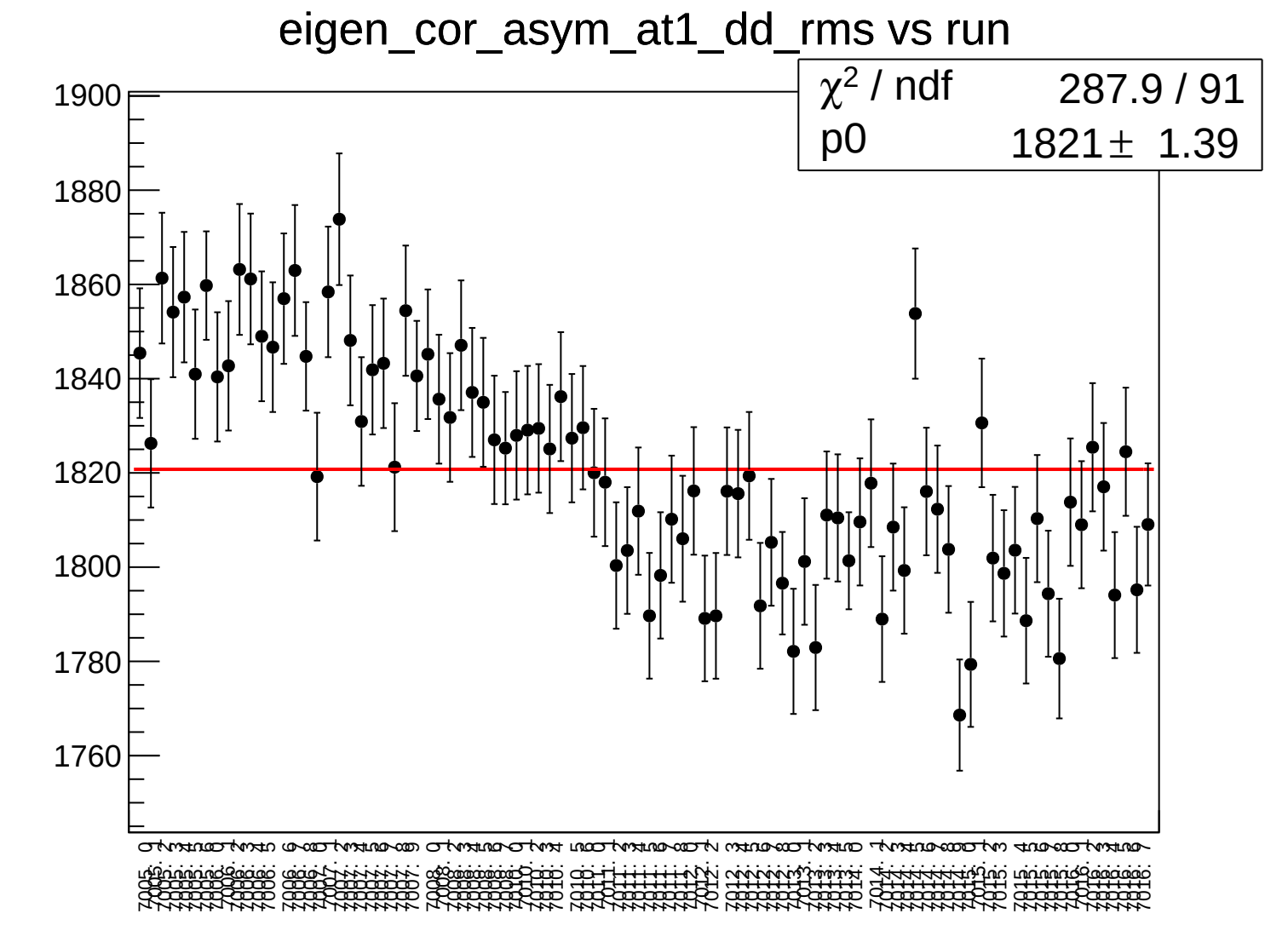

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 80.54 / 91
p0 163.5 ± 461.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 25.37
Std Dev 78.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

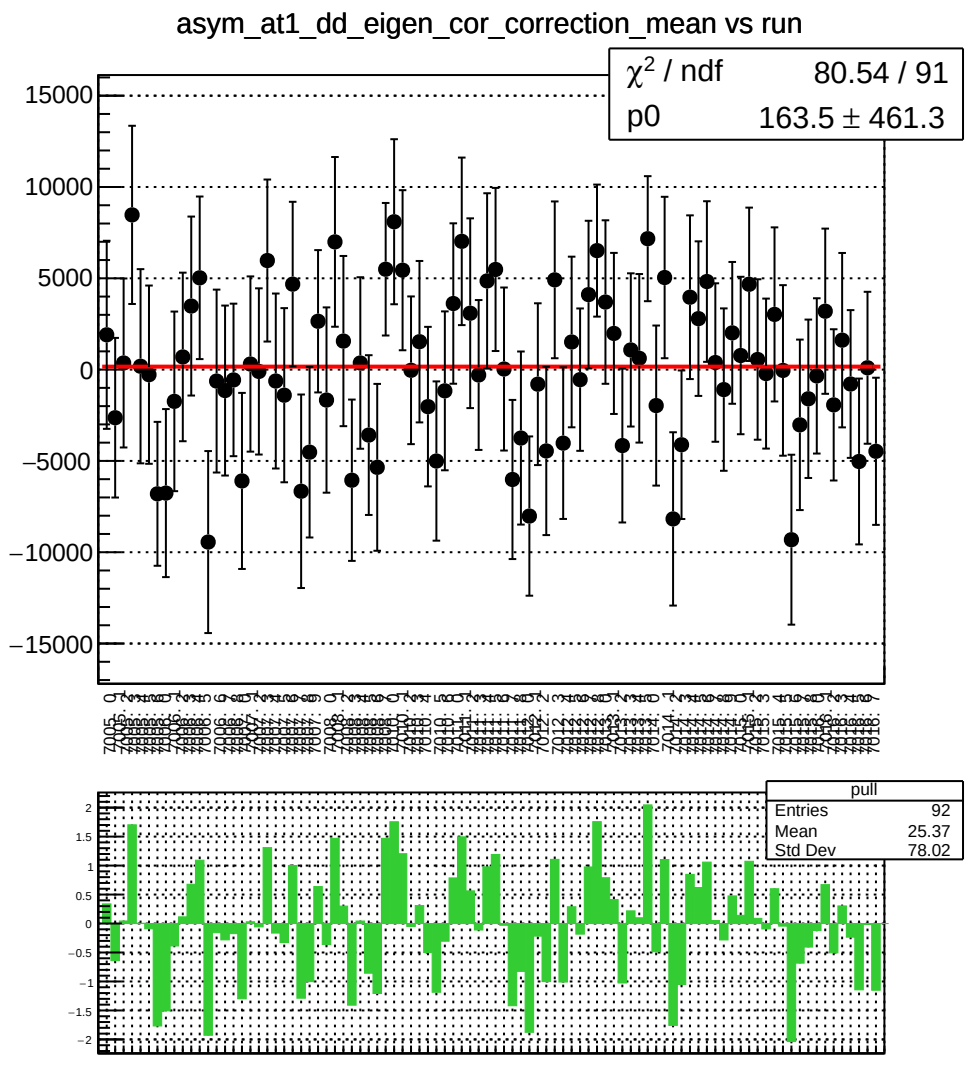

pull1D
Entries 92
Mean −0.01526
Std Dev 0.9355
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

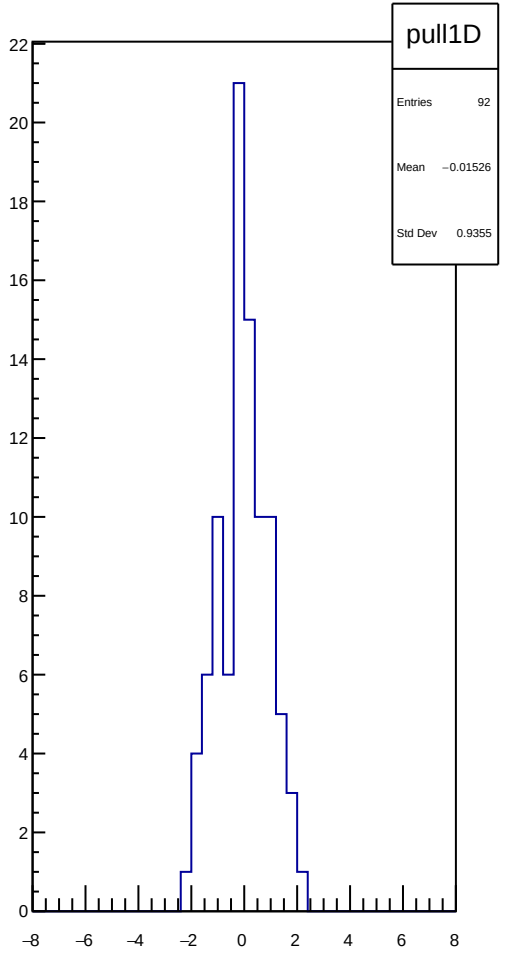

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 6718 / 91
p0 426.4 ± 0.3262
520
500
480
460
440
420
400
380
360

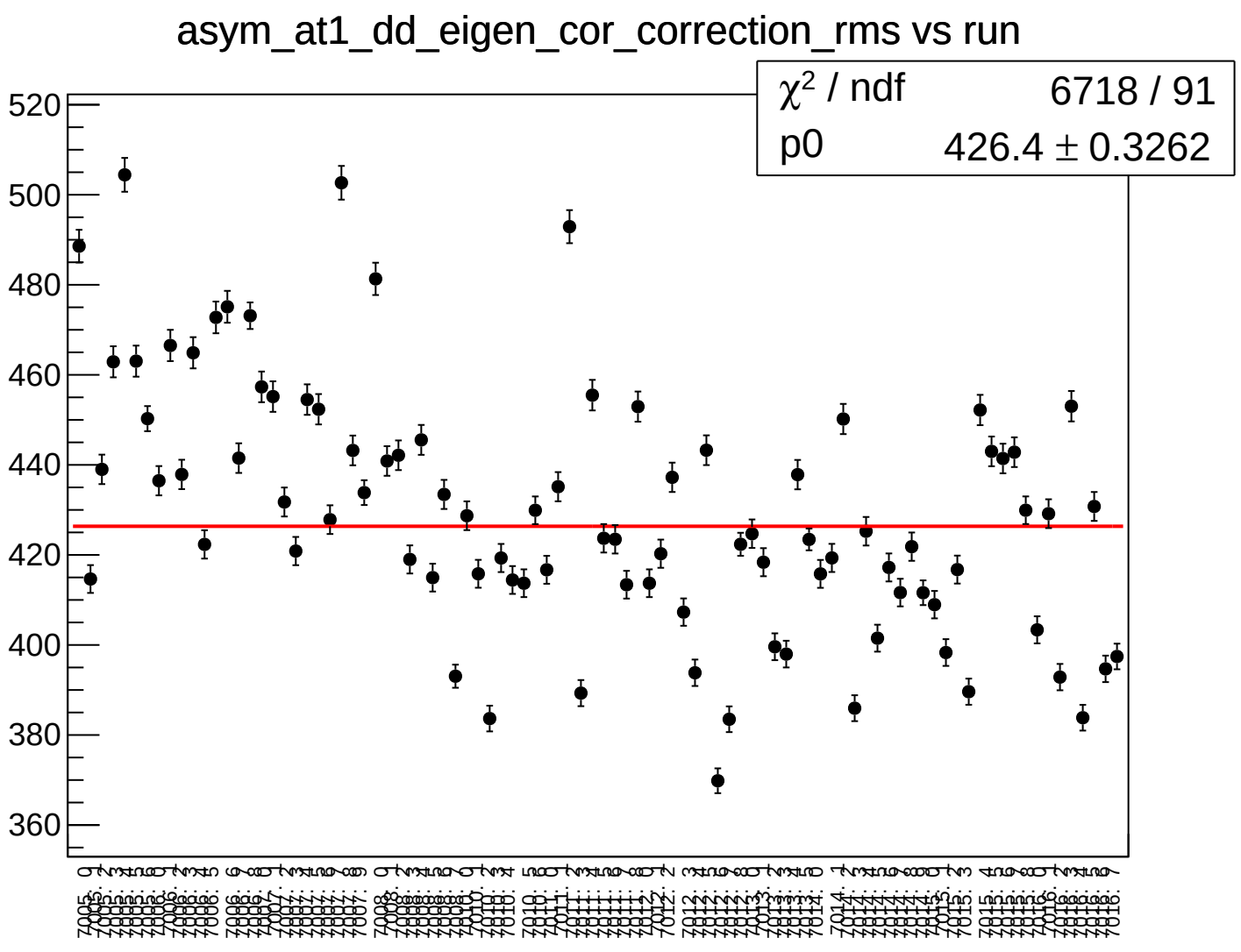

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 76.71 / 91
p0 2038 ± 1966
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −63.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

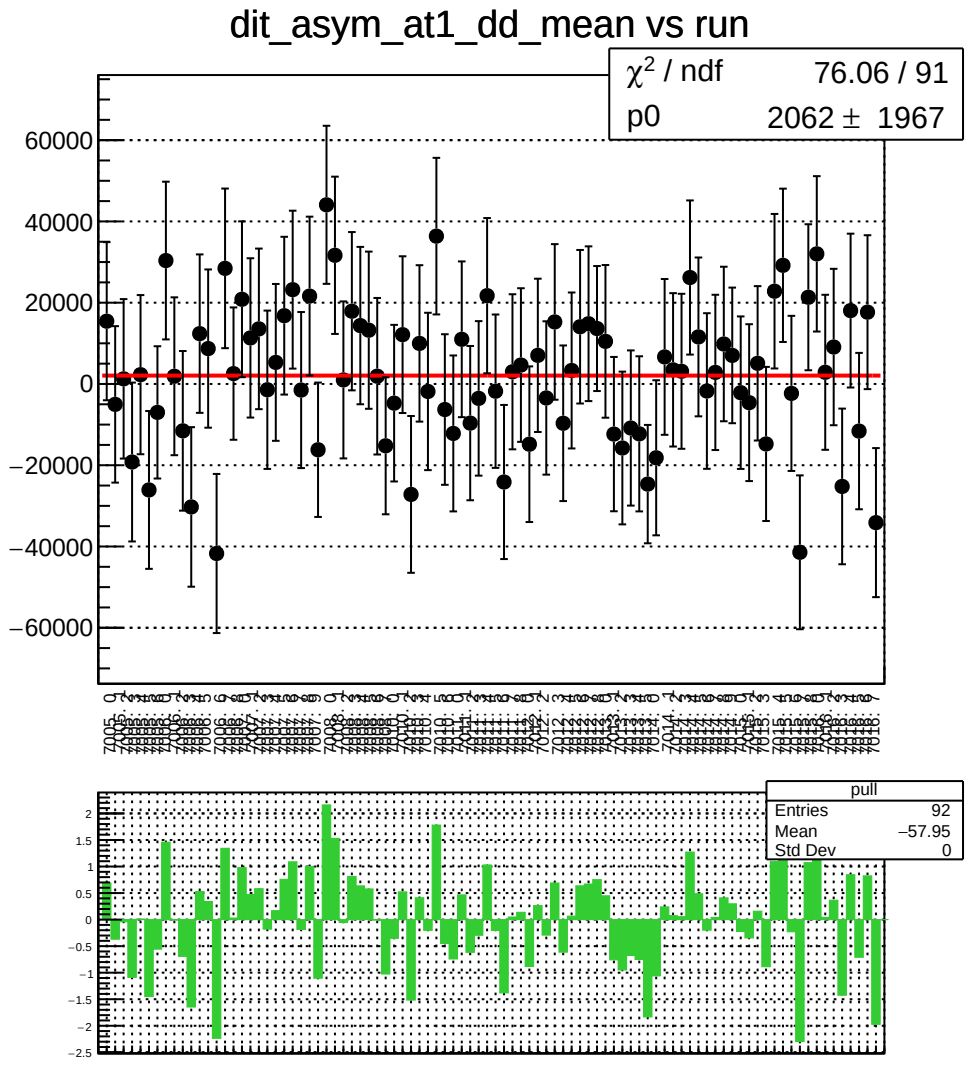

pull1D
Entries 92
Mean 0.009593
Std Dev 0.9131
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

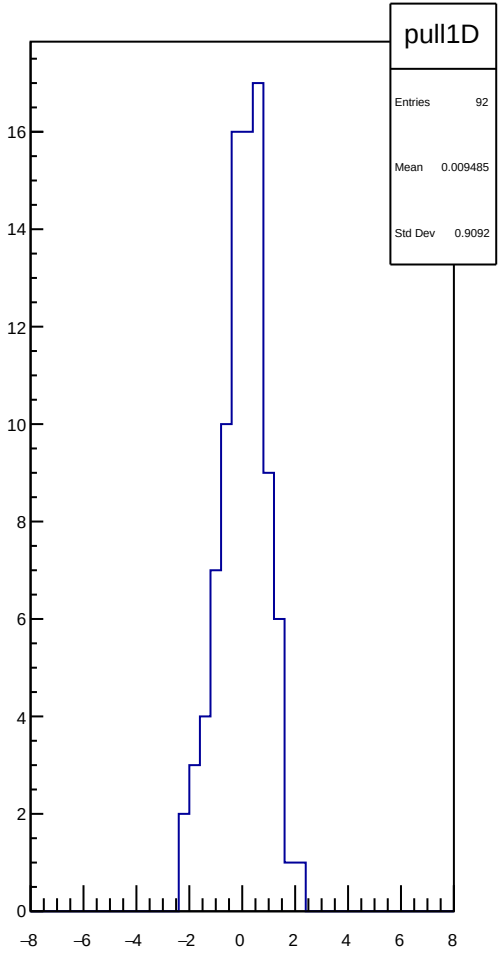

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 287.9 / 91
p0 1821 ± 1.39
1900
1880
1860
1840
1820
1800
1780
1760

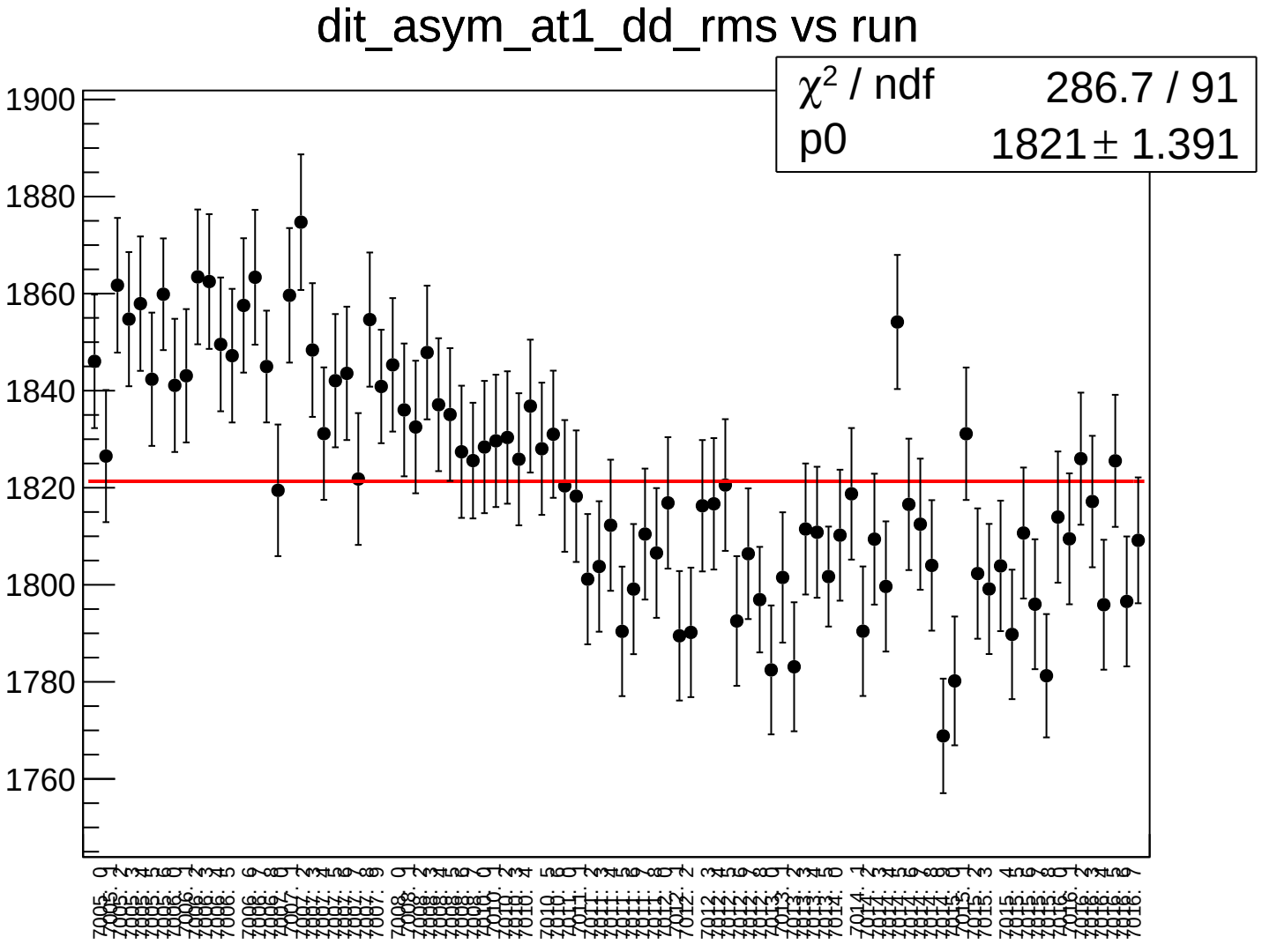

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.54 / 91
p0 163.5 ± 461.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 25.37
Std Dev 78.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

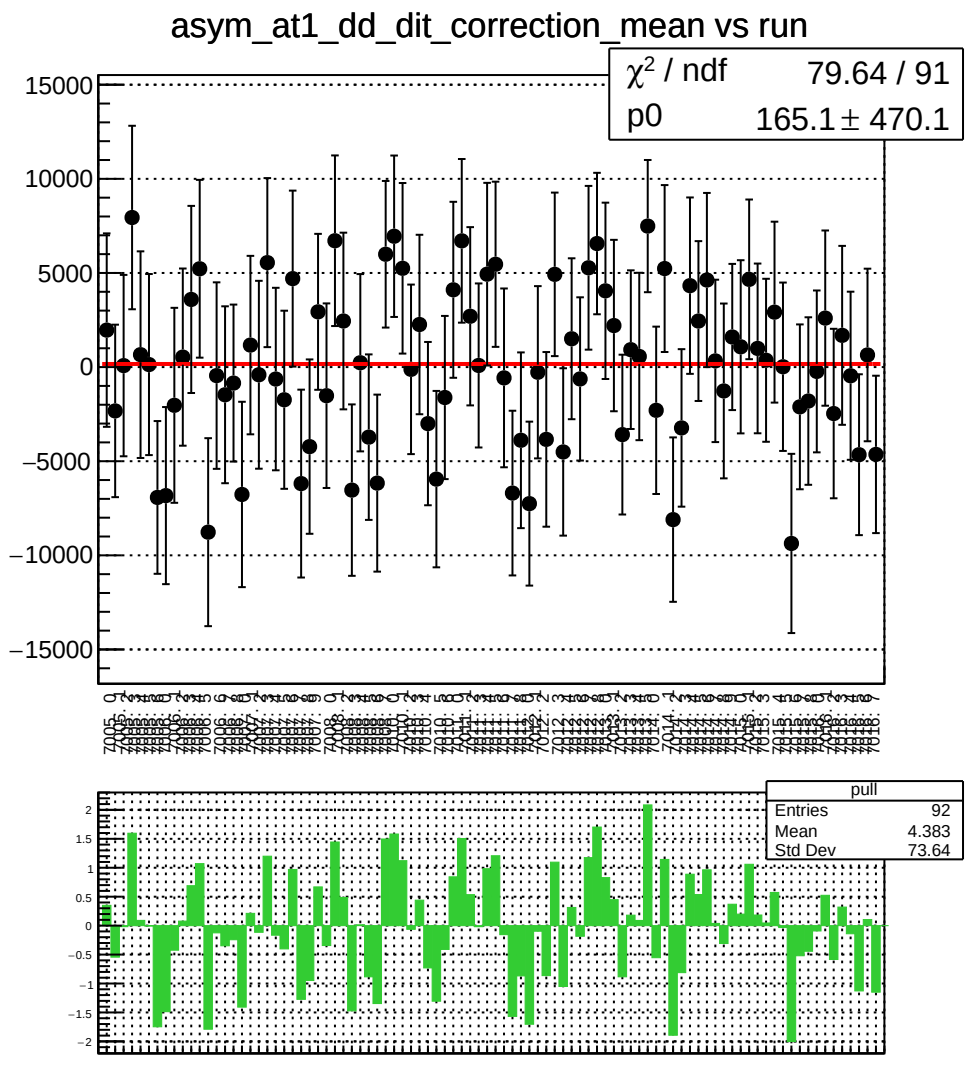

pull1D
Entries 92
Mean −0.01526
Std Dev 0.9355
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

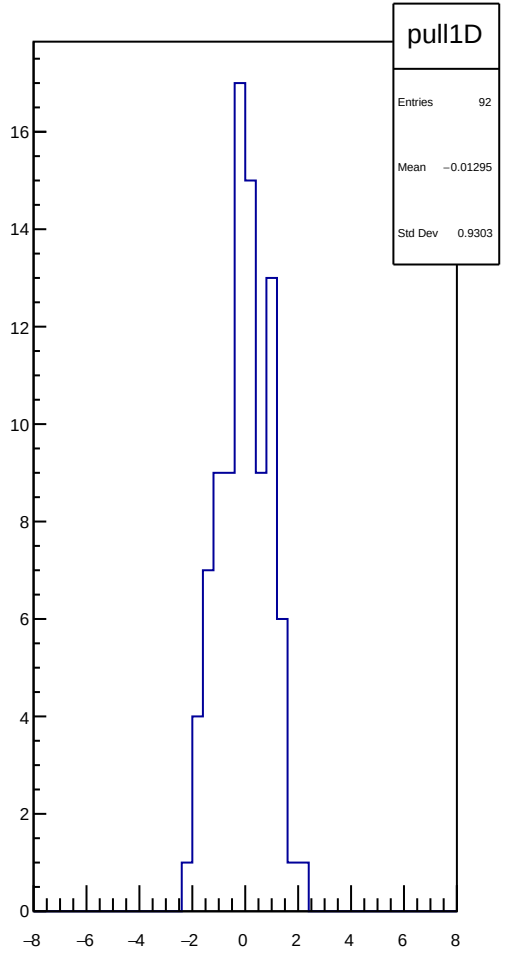

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6718 / 91
p0 426.4 ± 0.3262
520
500
480
460
440
420
400
380
360

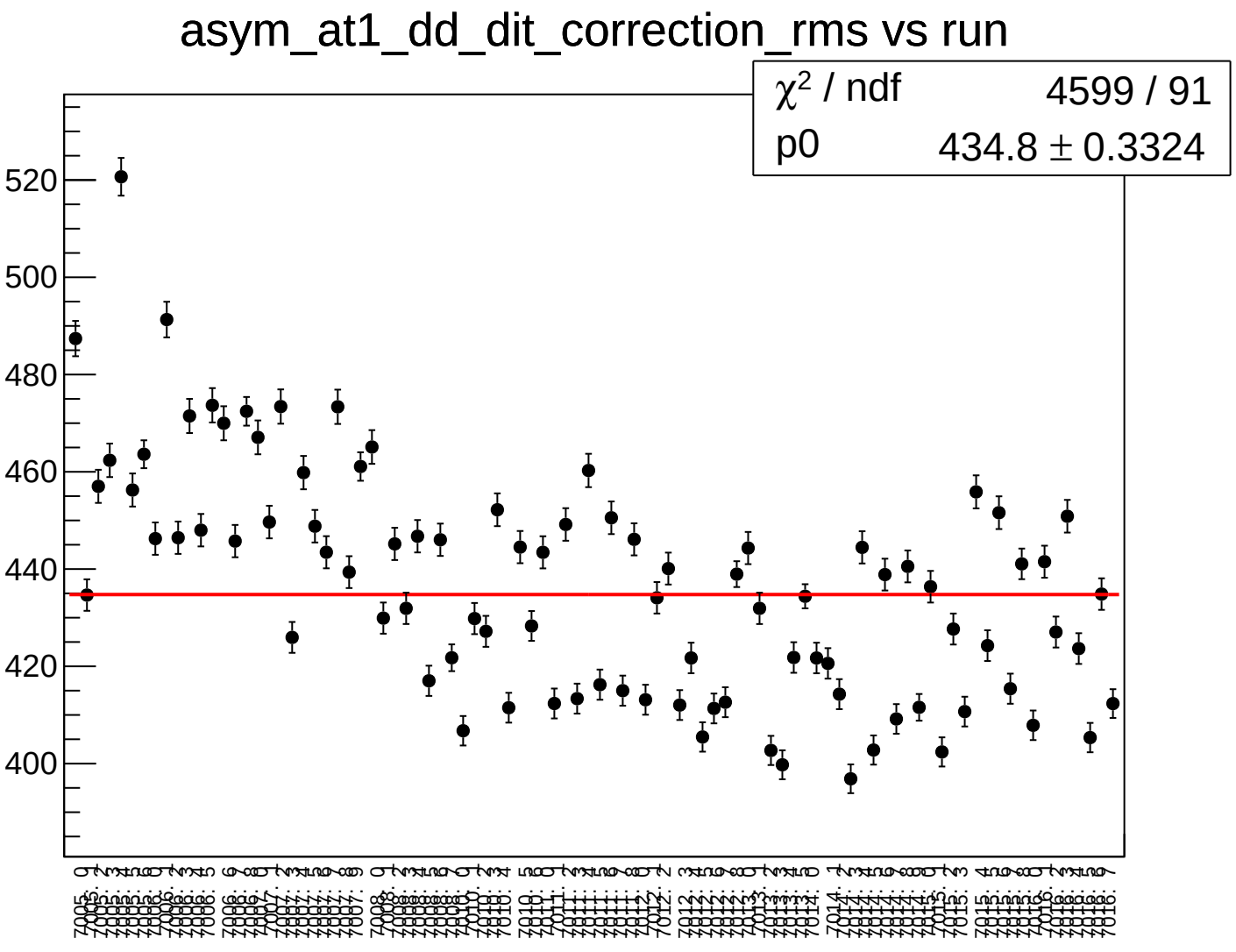

dit_asym_at1_dd_mean vs run
χ² / ndf 76.06 / 91
p0 2062 ± 1967
pull
Entries 92
Mean −57.95
Std Dev 0

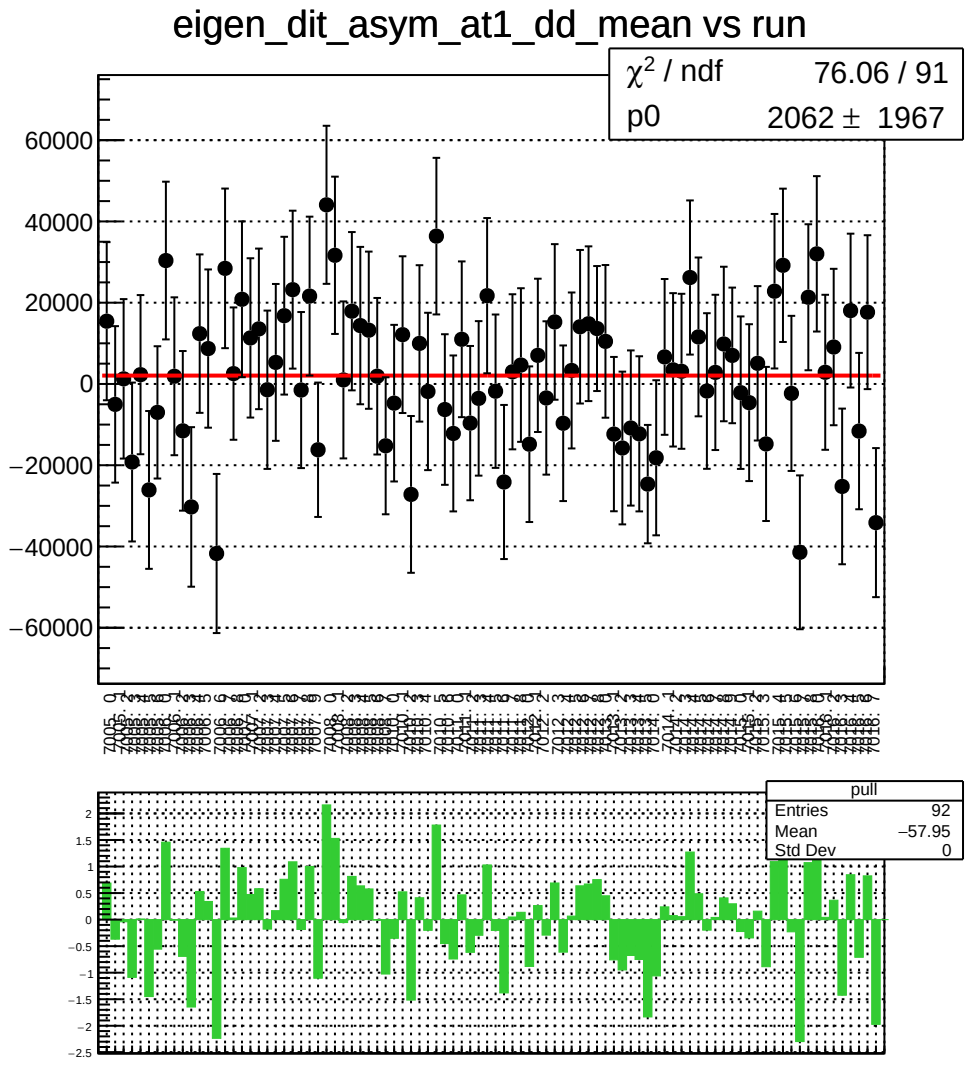

pull1D
Entries 92
Mean 0.009485
Std Dev 0.9092

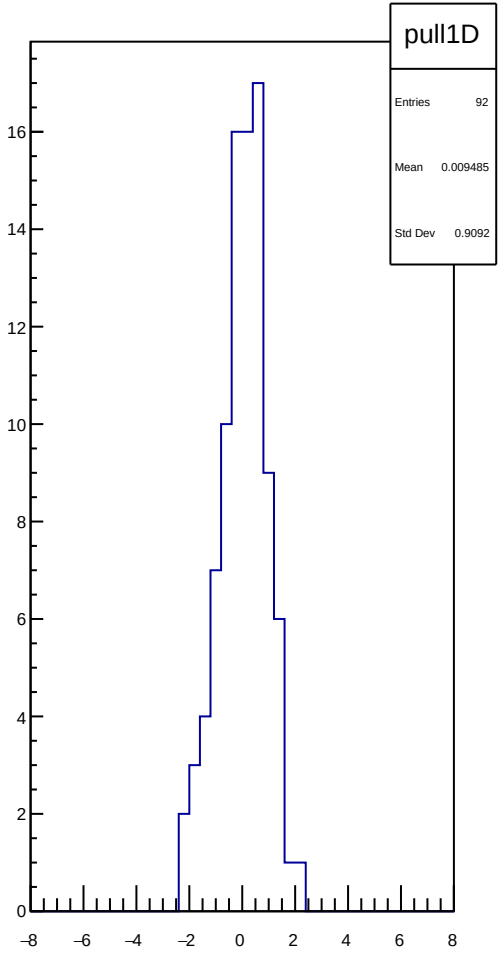

dit_asym_at1_dd_rms vs run
χ² / ndf 286.7 / 91
p0 1821 ± 1.391
1900
1880
1860
1840
1820
1800
1780
1760

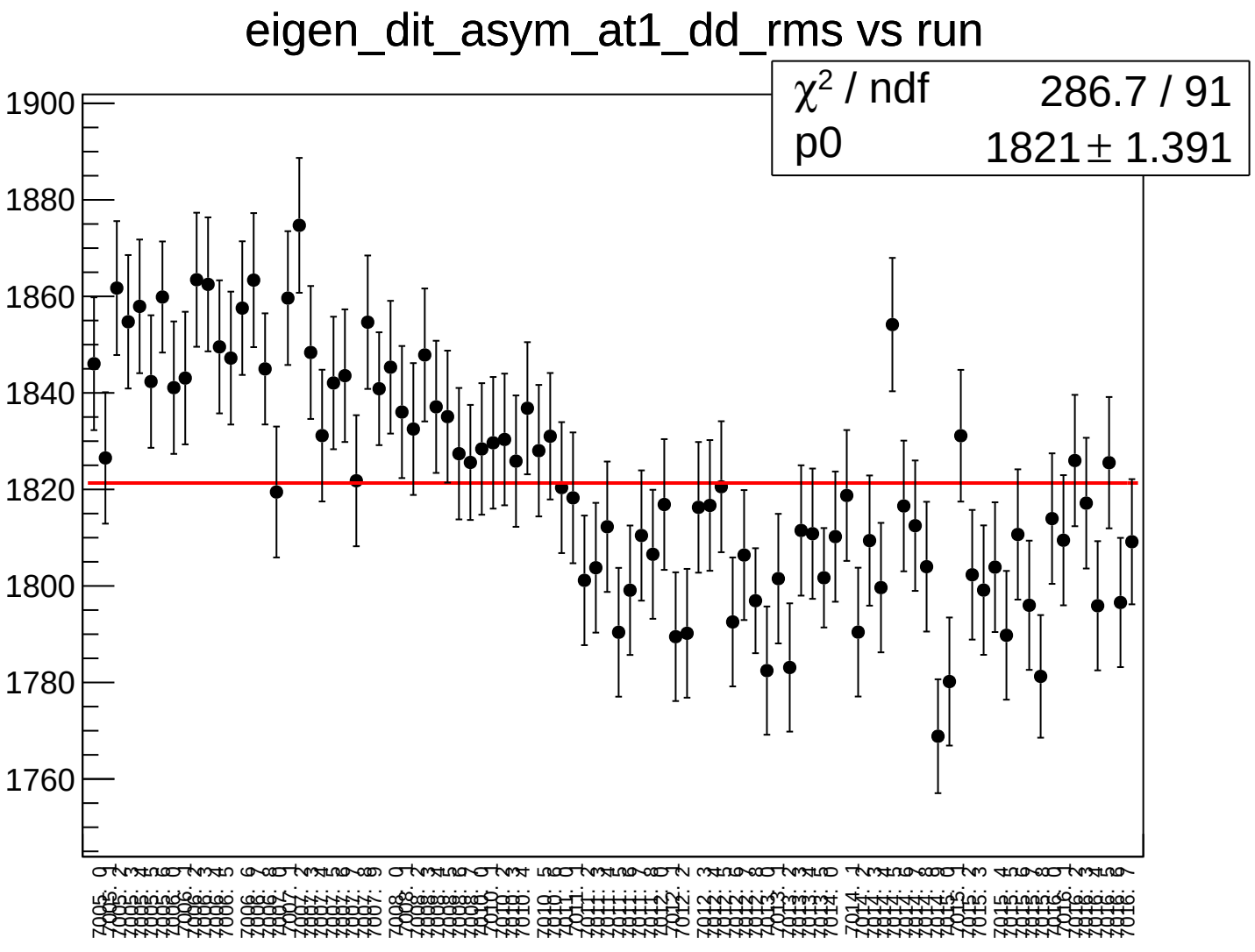

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 79.64 / 91
p0 165.1 ± 470.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 4.383
Std Dev 73.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

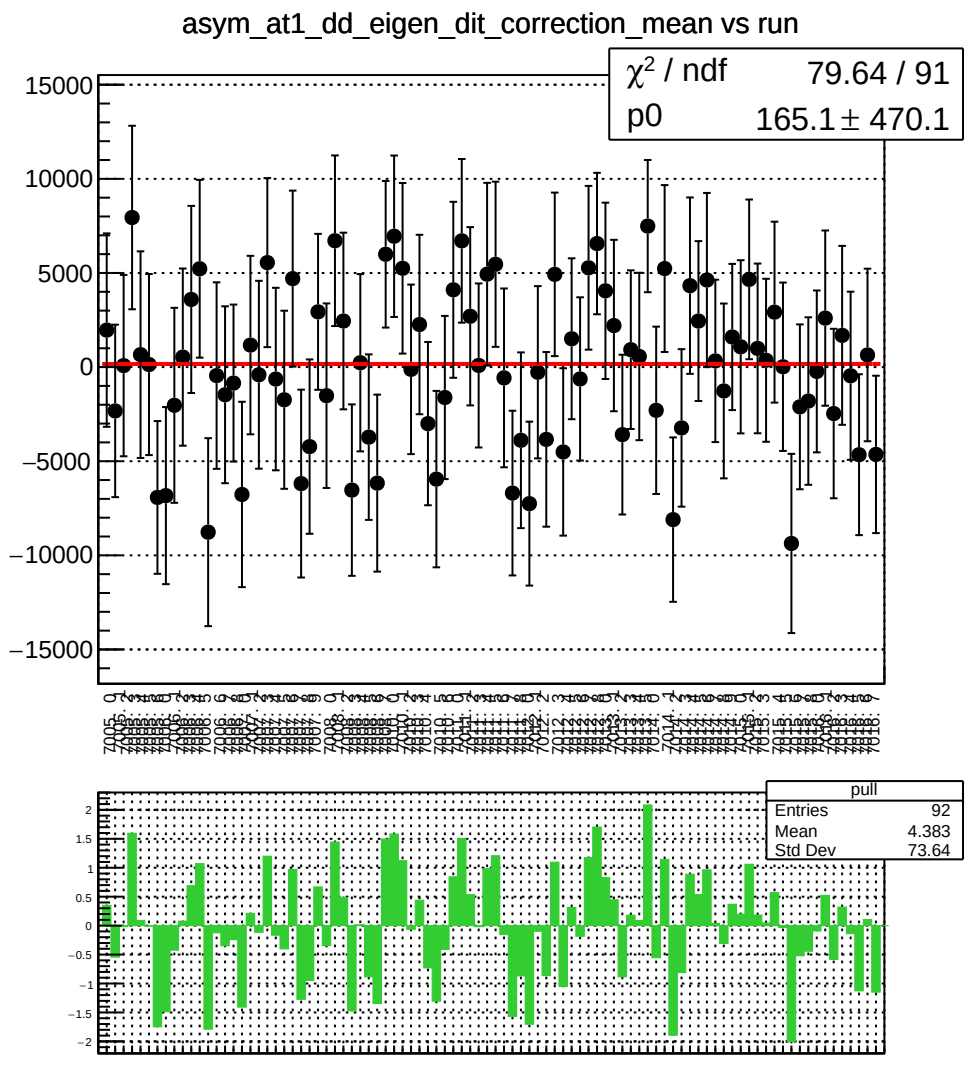

pull1D
Entries 92
Mean −0.01295
Std Dev 0.9303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

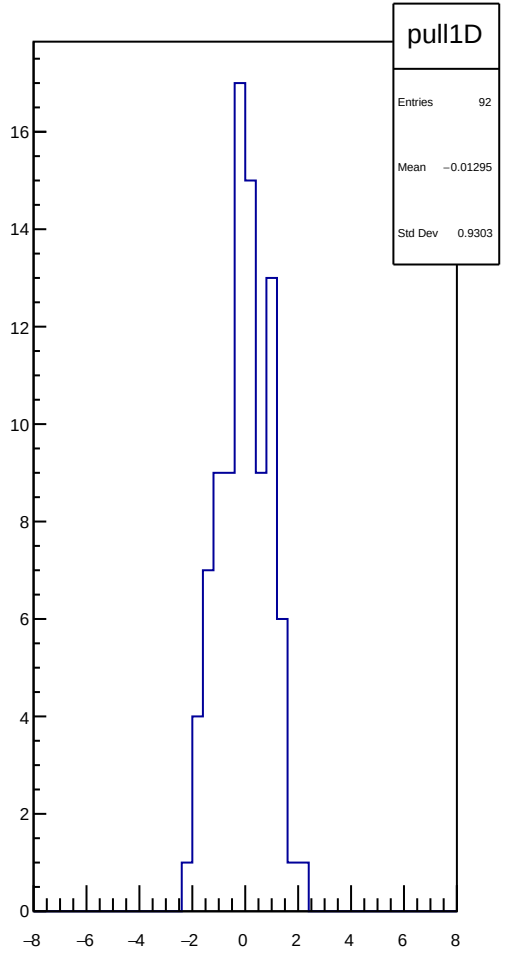

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 4599 / 91
p0 434.8 ± 0.3324
520
500
480
460
440
420
400

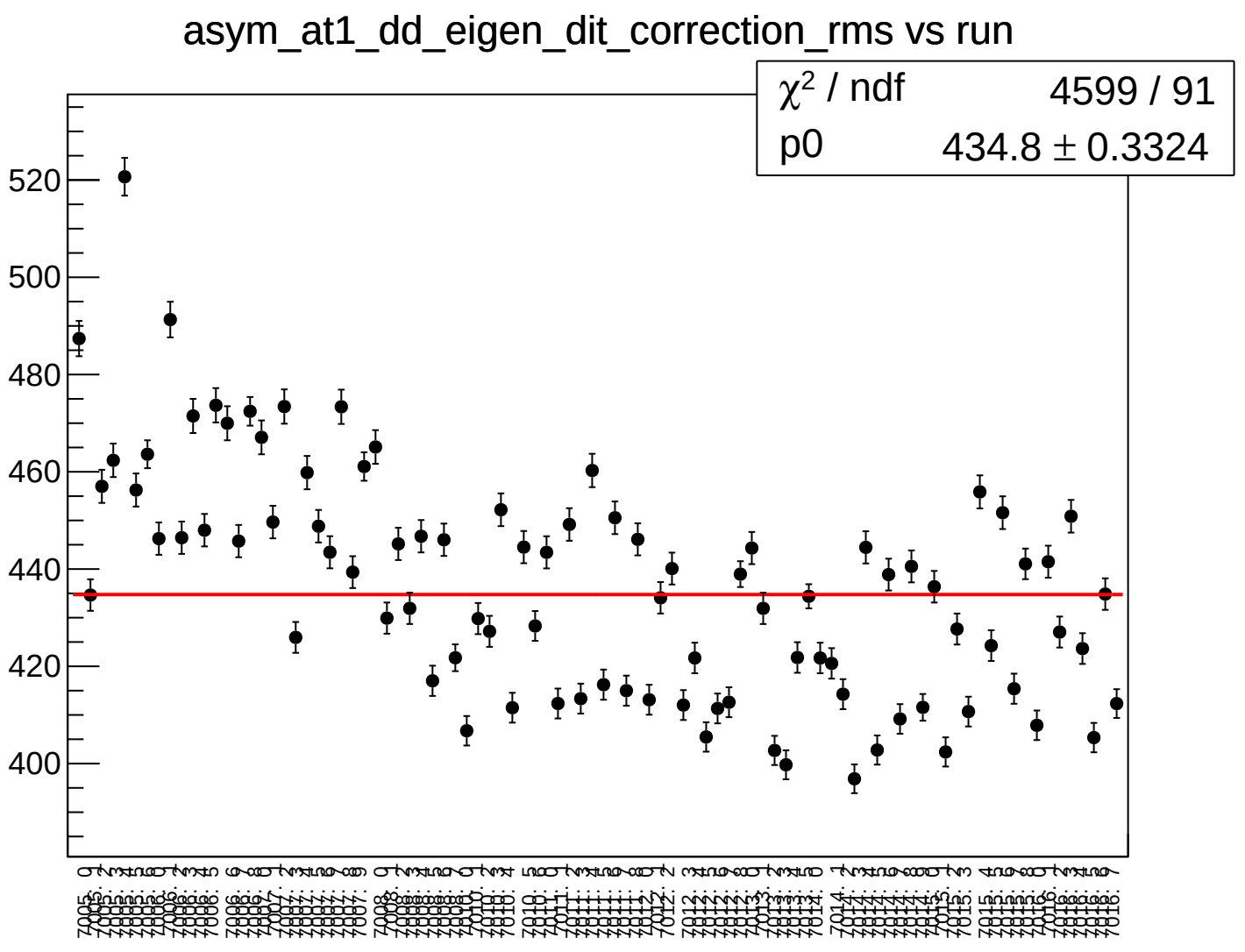

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 76.06 / 91
p0 2062 ± 1967
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −57.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

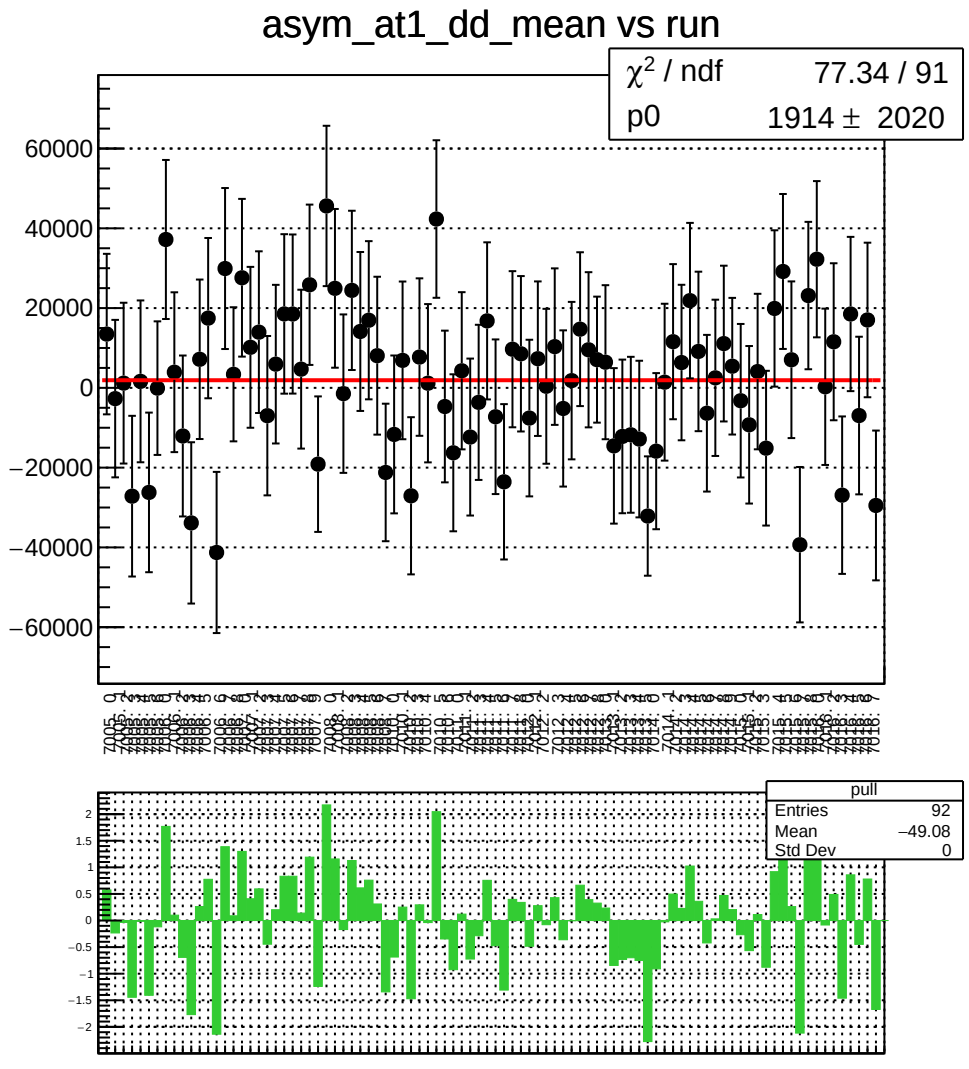

pull1D
Entries 92
Mean 0.009485
Std Dev 0.9092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

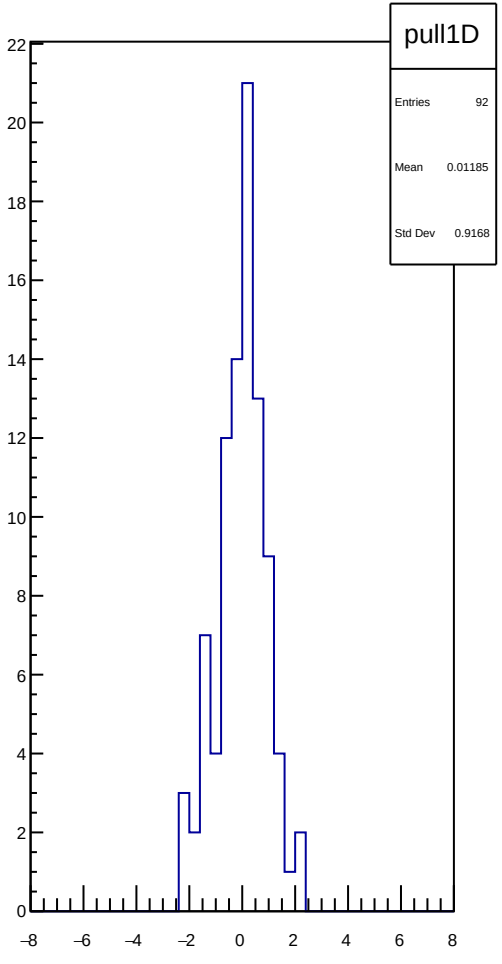

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 286.7 / 91
p0 1821 ± 1.391
1900
1880
1860
1840
1820
1800
1780
1760

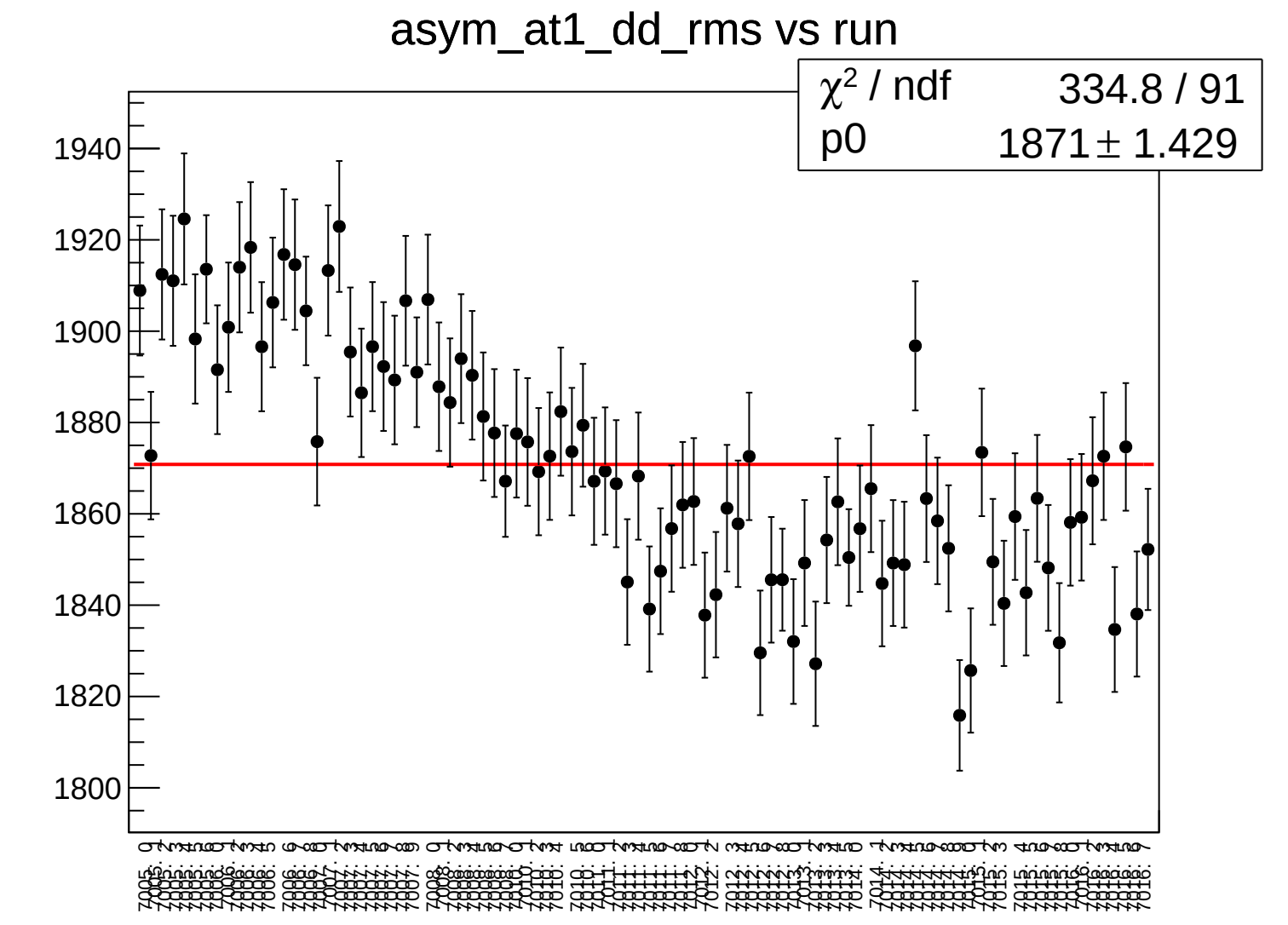

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.64 / 91
p0 165.1 ± 470.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 4.383
Std Dev 73.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

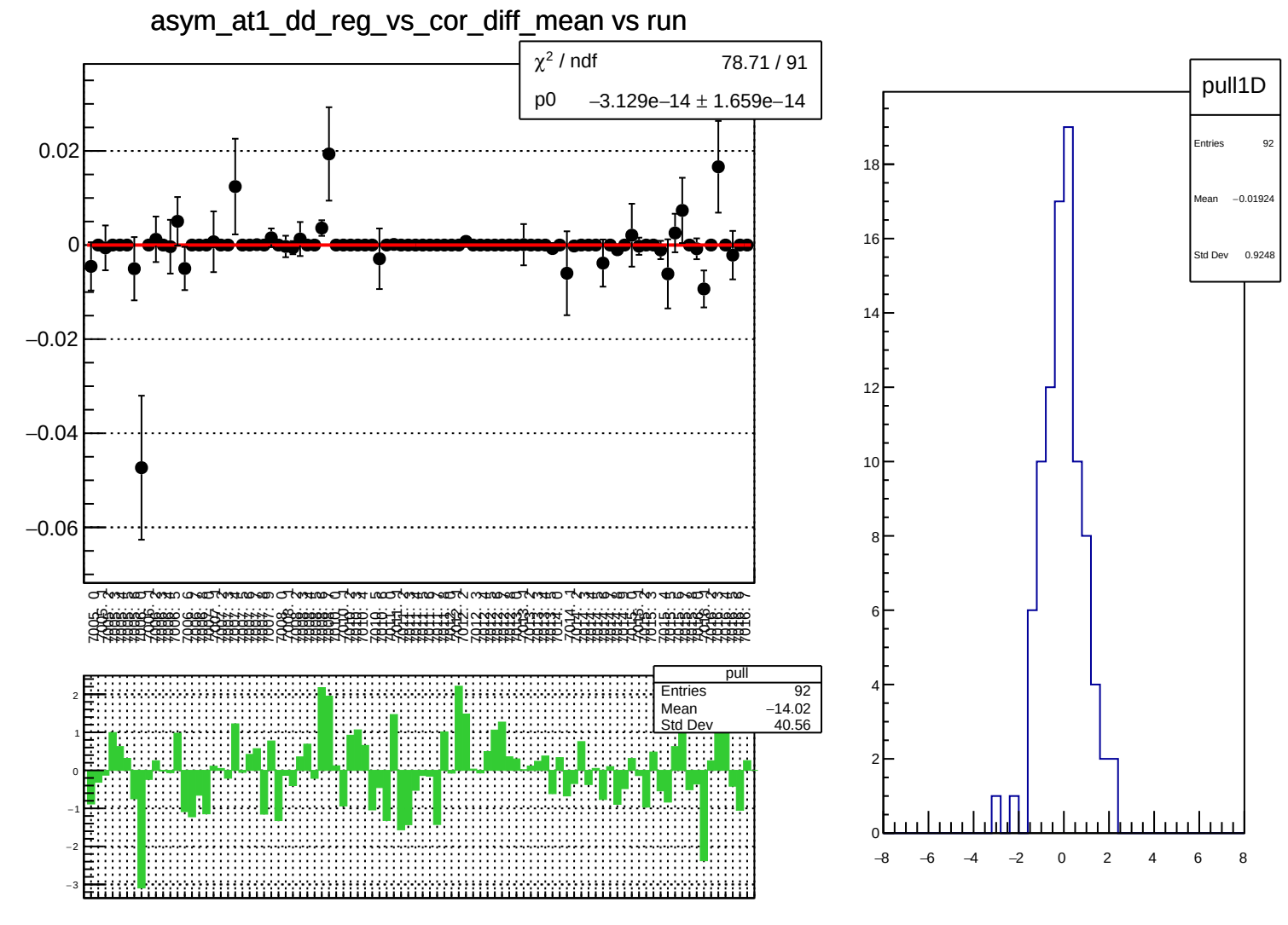

pull1D
Entries 92
Mean −0.01295
Std Dev 0.9303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

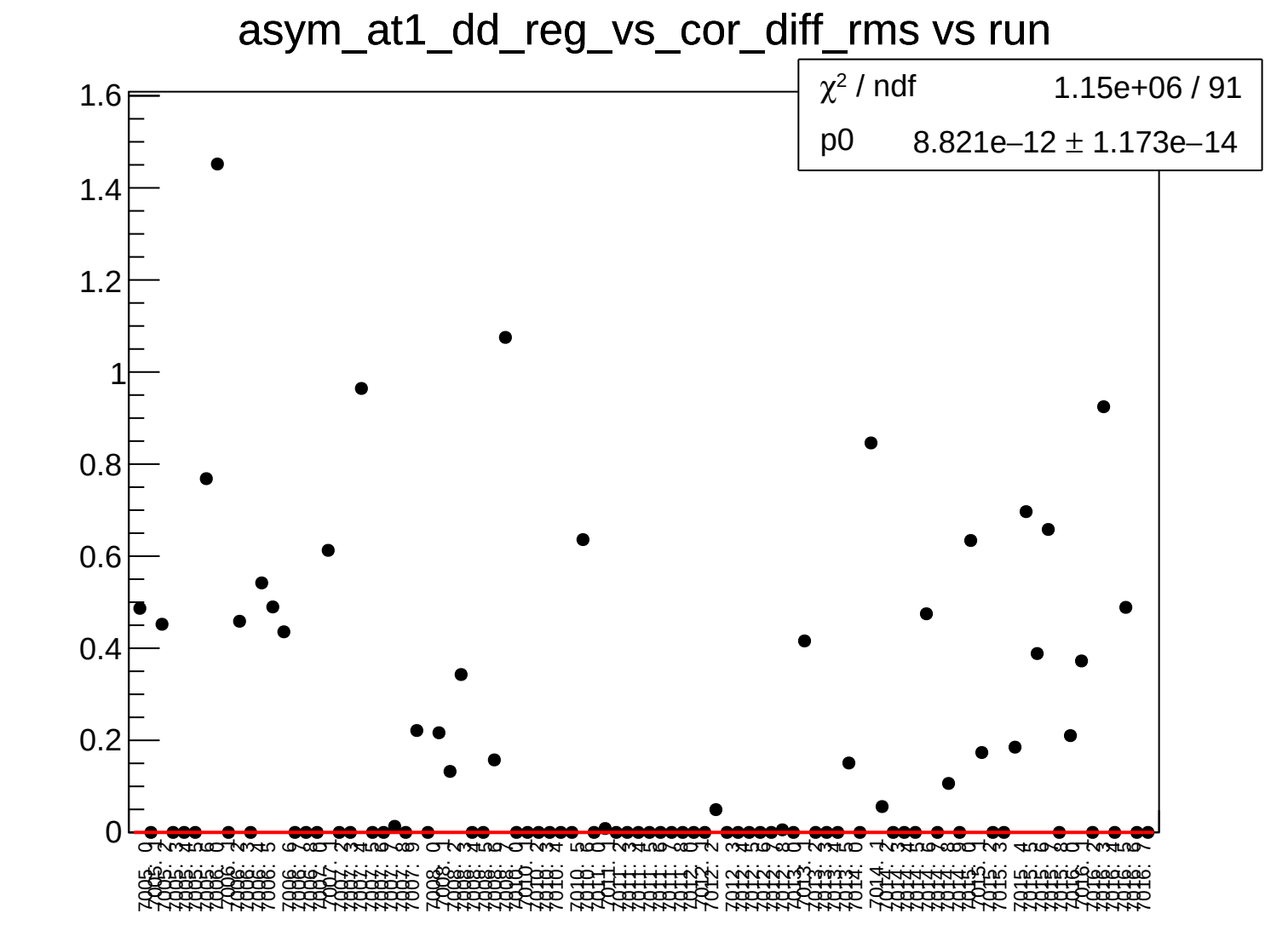

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4599 / 91
p0 434.8 ± 0.3324
520
500
480
460
440
420
400

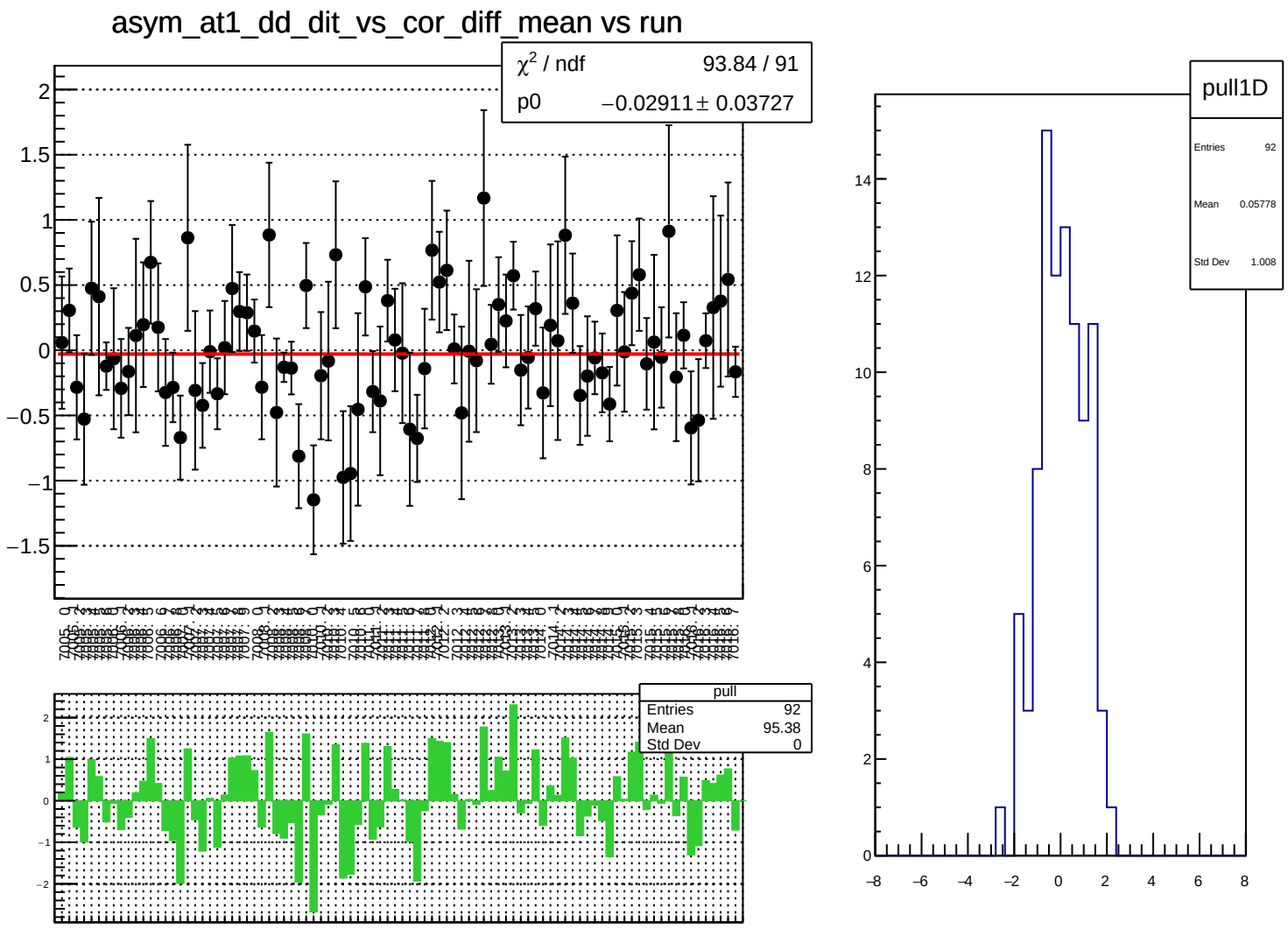

asym_at1_dd_mean vs run
χ² / ndf 77.34 / 91
p0 1914 ± 2020
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −49.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

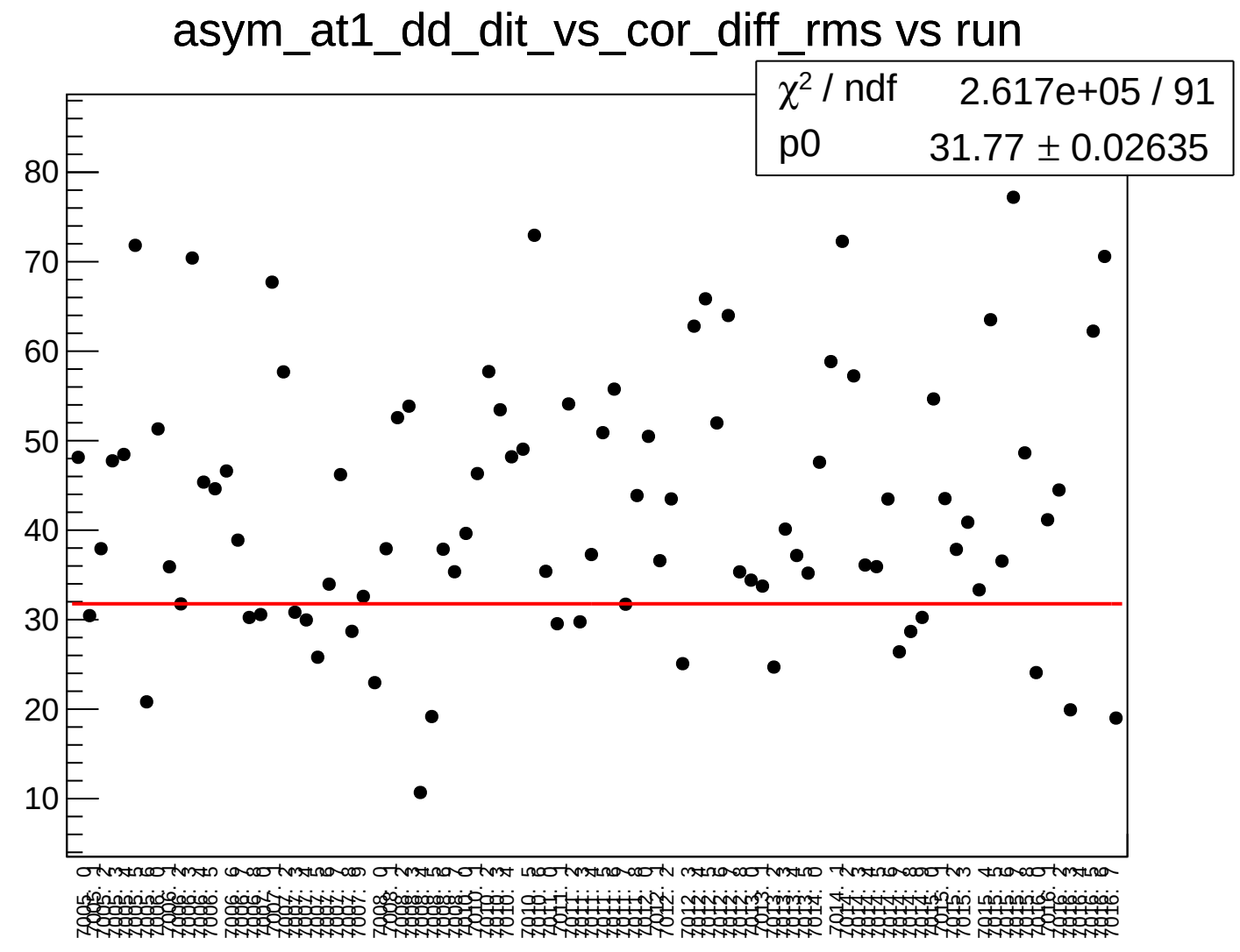

pull1D
Entries 92
Mean 0.01185
Std Dev 0.9168
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

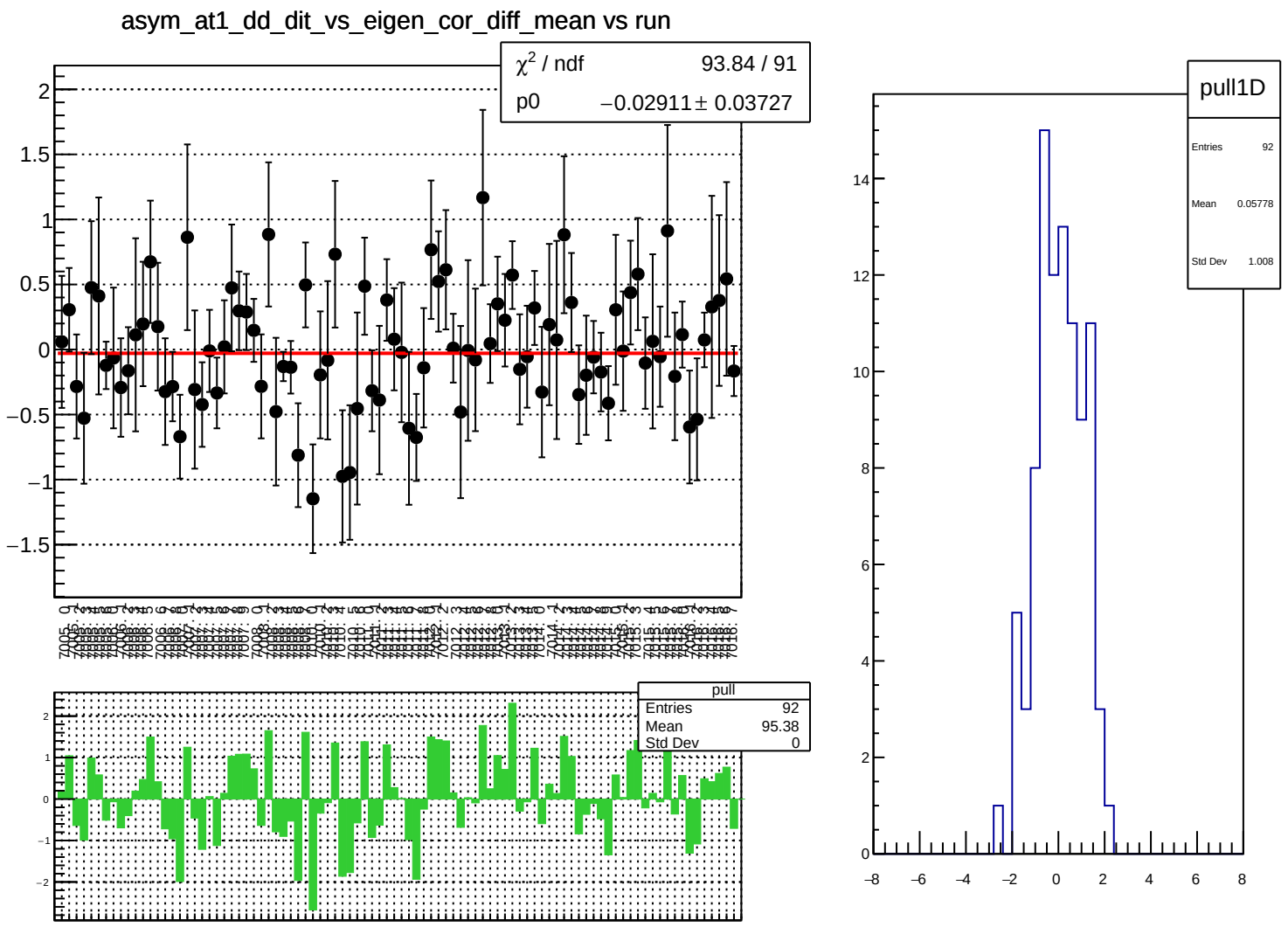

asym_at1_dd_rms vs run
χ² / ndf 334.8 / 91
p0 1871 ± 1.429
1940
1920
1900
1880
1860
1840
1820
1800

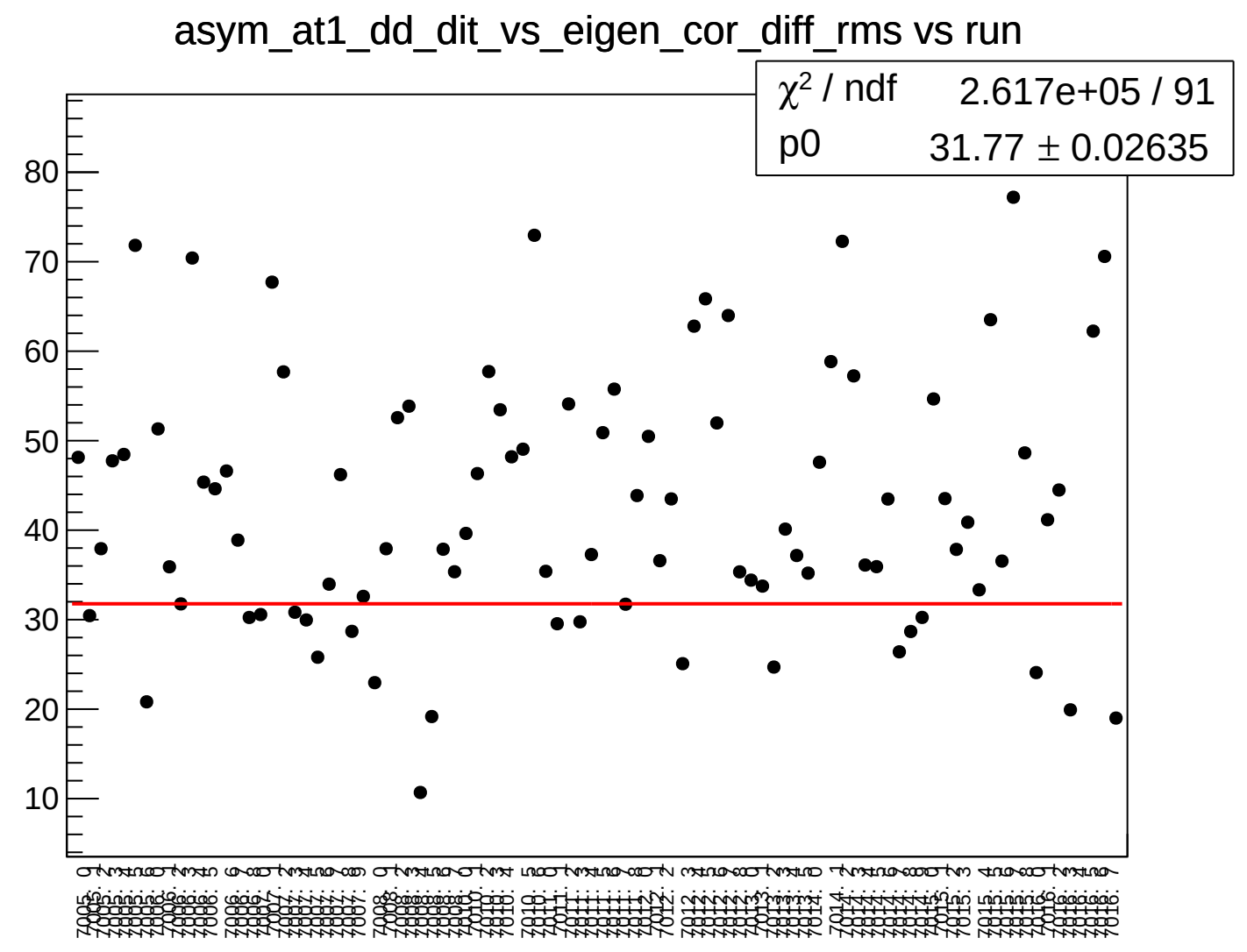

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.71 / 91
p0 −3.129e−14 ± 1.659e−14
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean −14.02
Std Dev 40.56
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.01924
Std Dev 0.9248
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

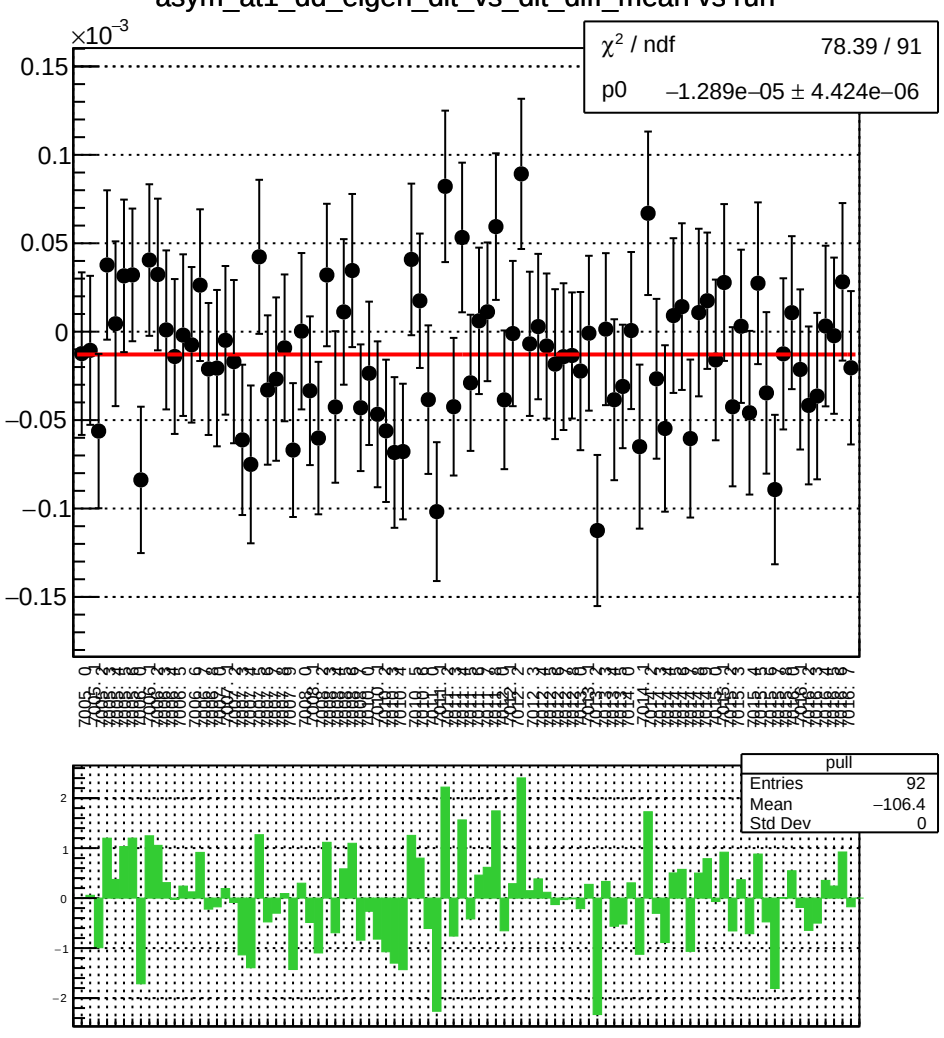

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.15e+06 / 91
p0 8.821e−12 ± 1.173e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

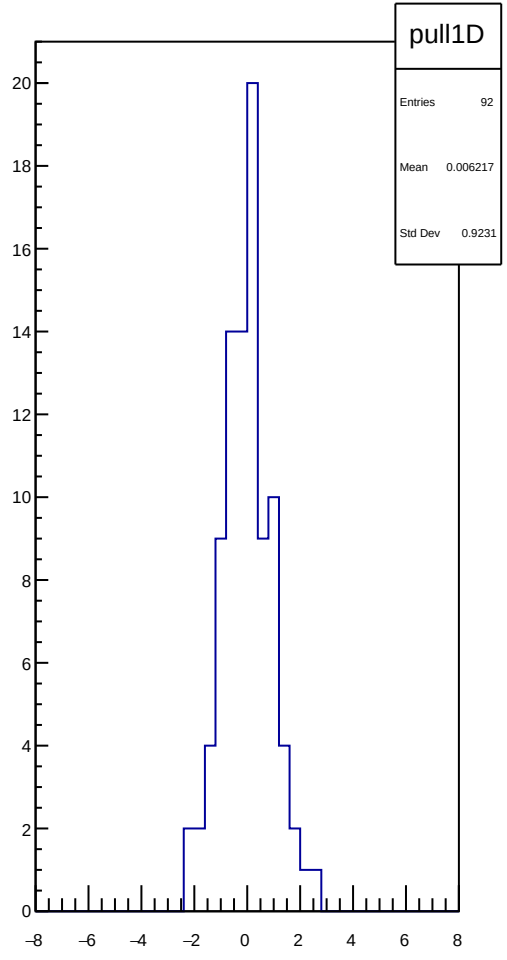

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.84 / 91
p0 −0.02911 ± 0.03727
pull
Entries 92
Mean 95.38
Std Dev 0
pull1D
Entries 92
Mean 0.05778
Std Dev 1.008

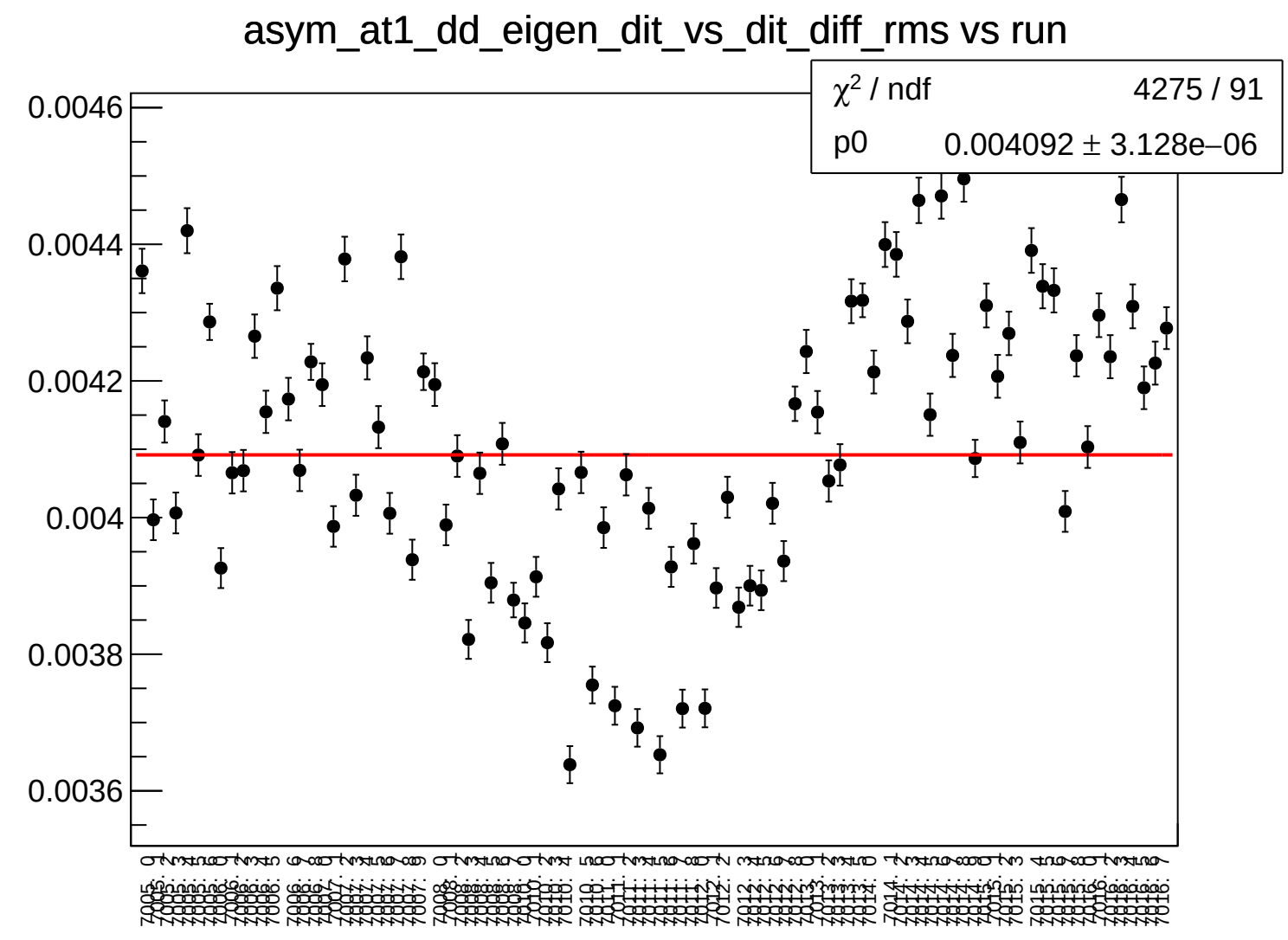

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.617e+05 / 91
p0 31.77 ± 0.02635
80
70
60
50
40
30
20
10

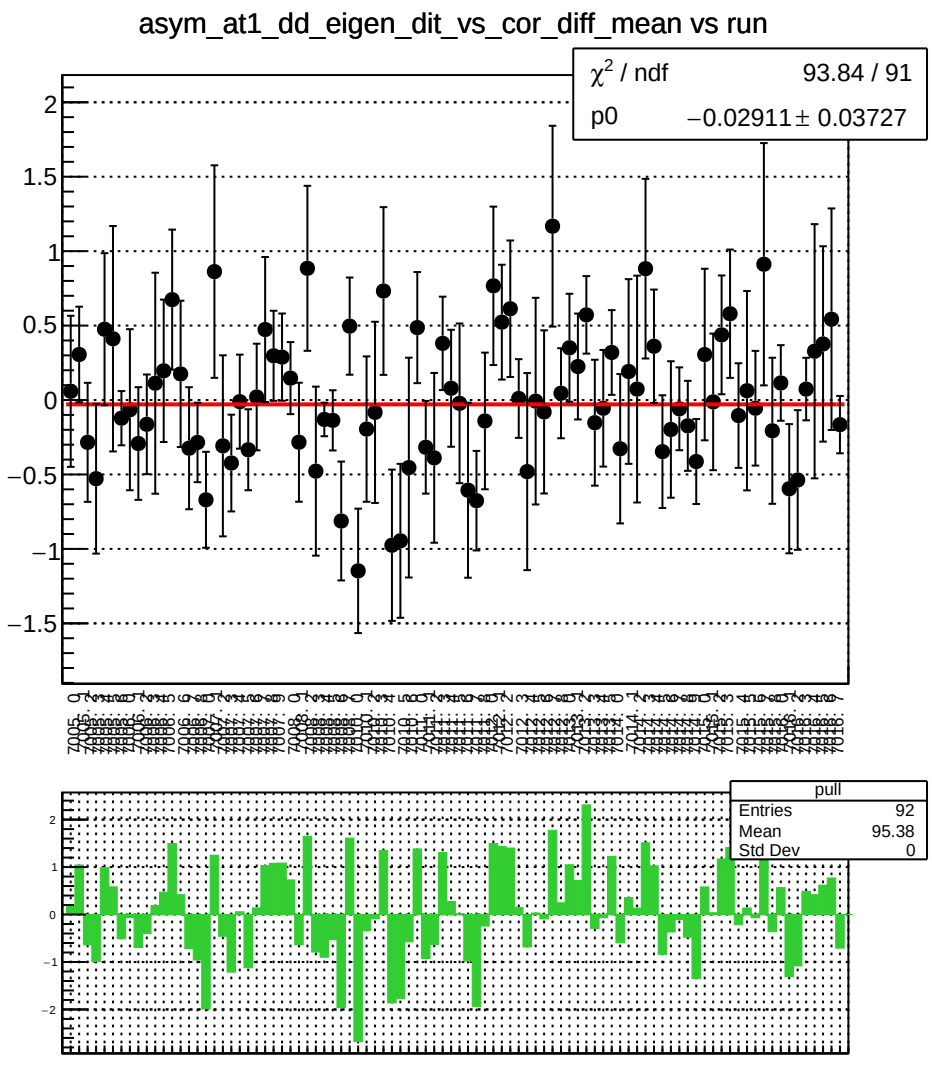

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
$\chi^2$ / ndf 93.84 / 91
p0 −0.02911 ± 0.03727
pull
Entries 92
Mean 95.38
Std Dev 0
pull1D
Entries 92
Mean 0.05778
Std Dev 1.008

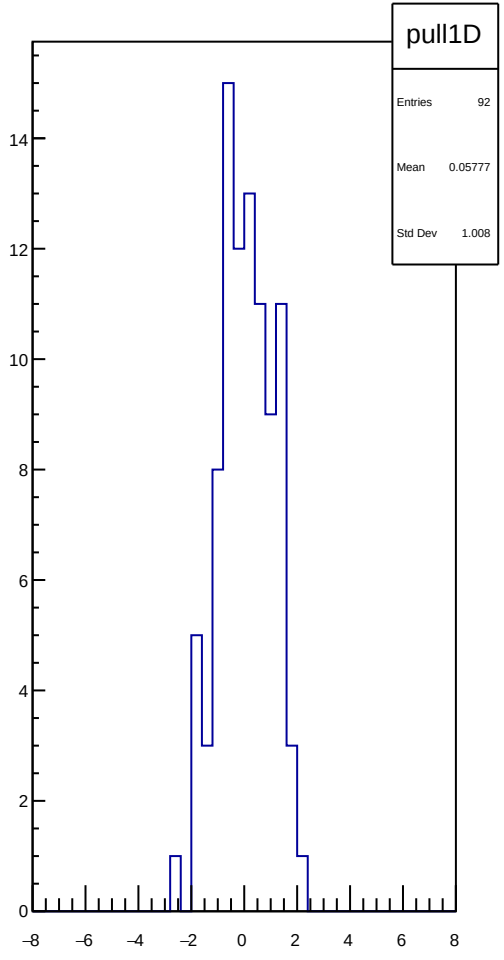

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.617e+05 / 91
p0 31.77 ± 0.02635
80
70
60
50
40
30
20
10

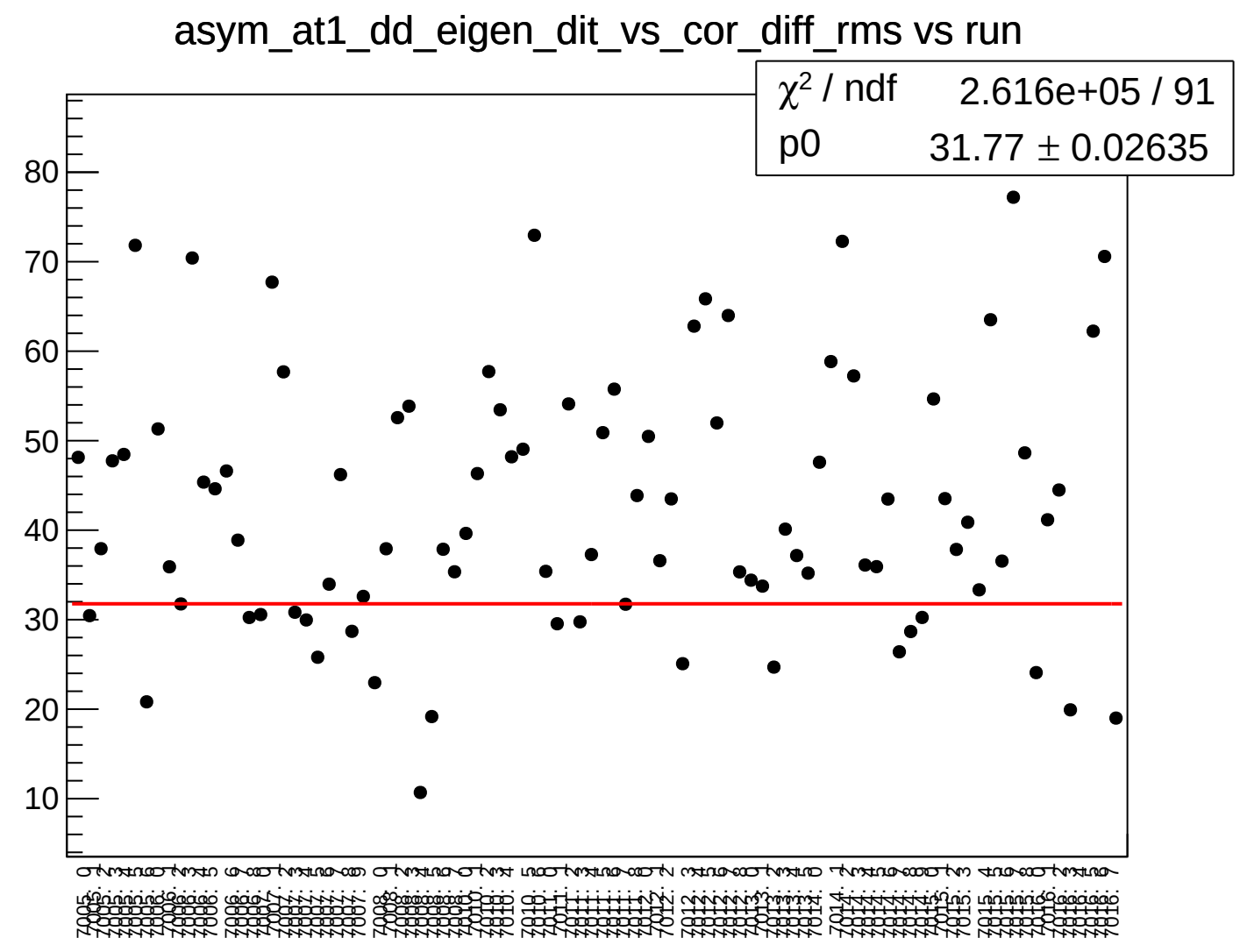

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.39 / 91
p0 −1.289e−05 ± 4.424e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −106.4
Std Dev 0
2
1
0
−1
−2

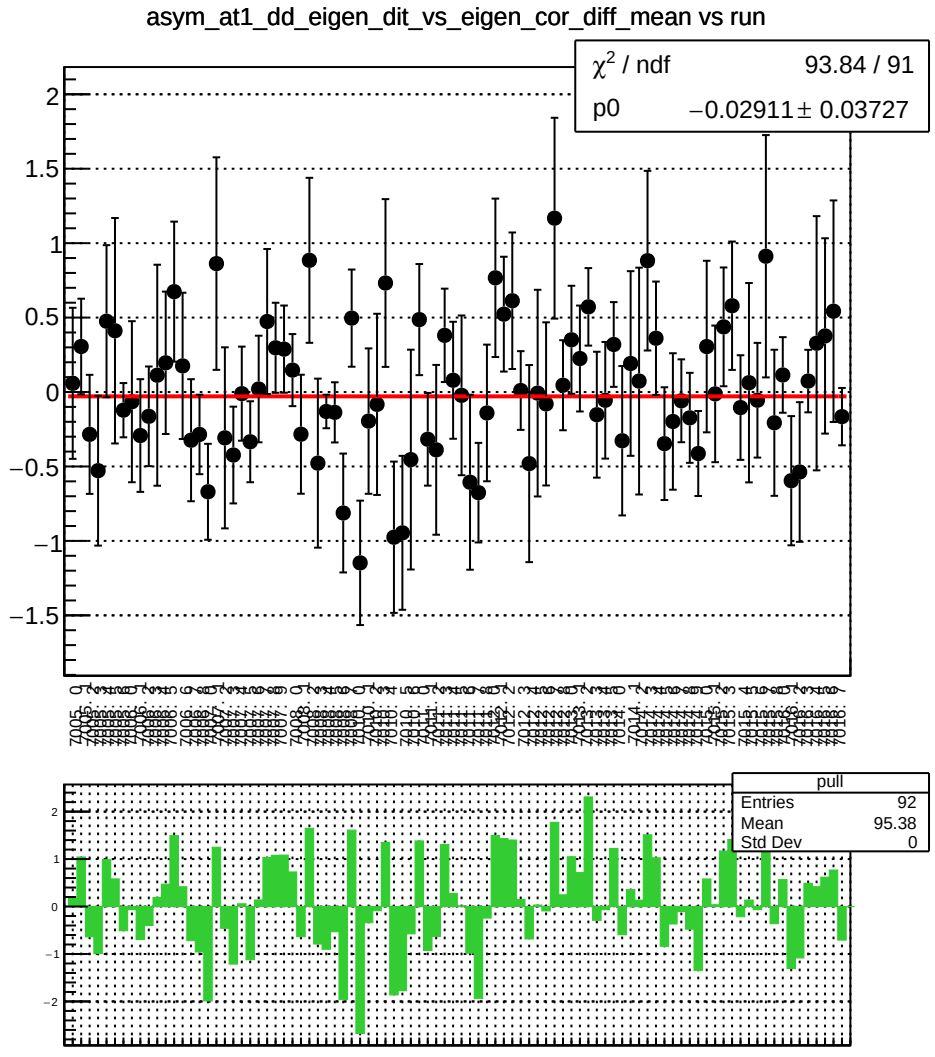

pull1D
Entries 92
Mean 0.006217
Std Dev 0.9231
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

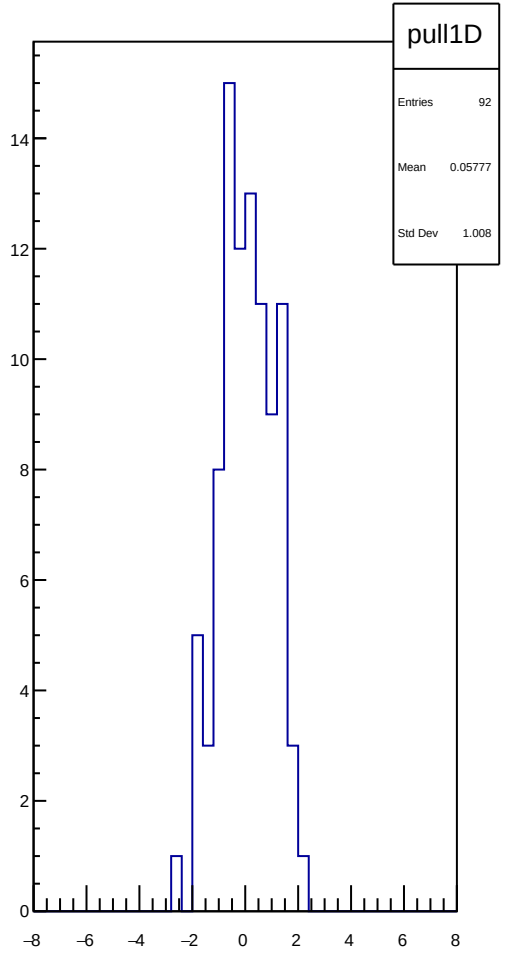

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4275 / 91
p0 0.004092 ± 3.128e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

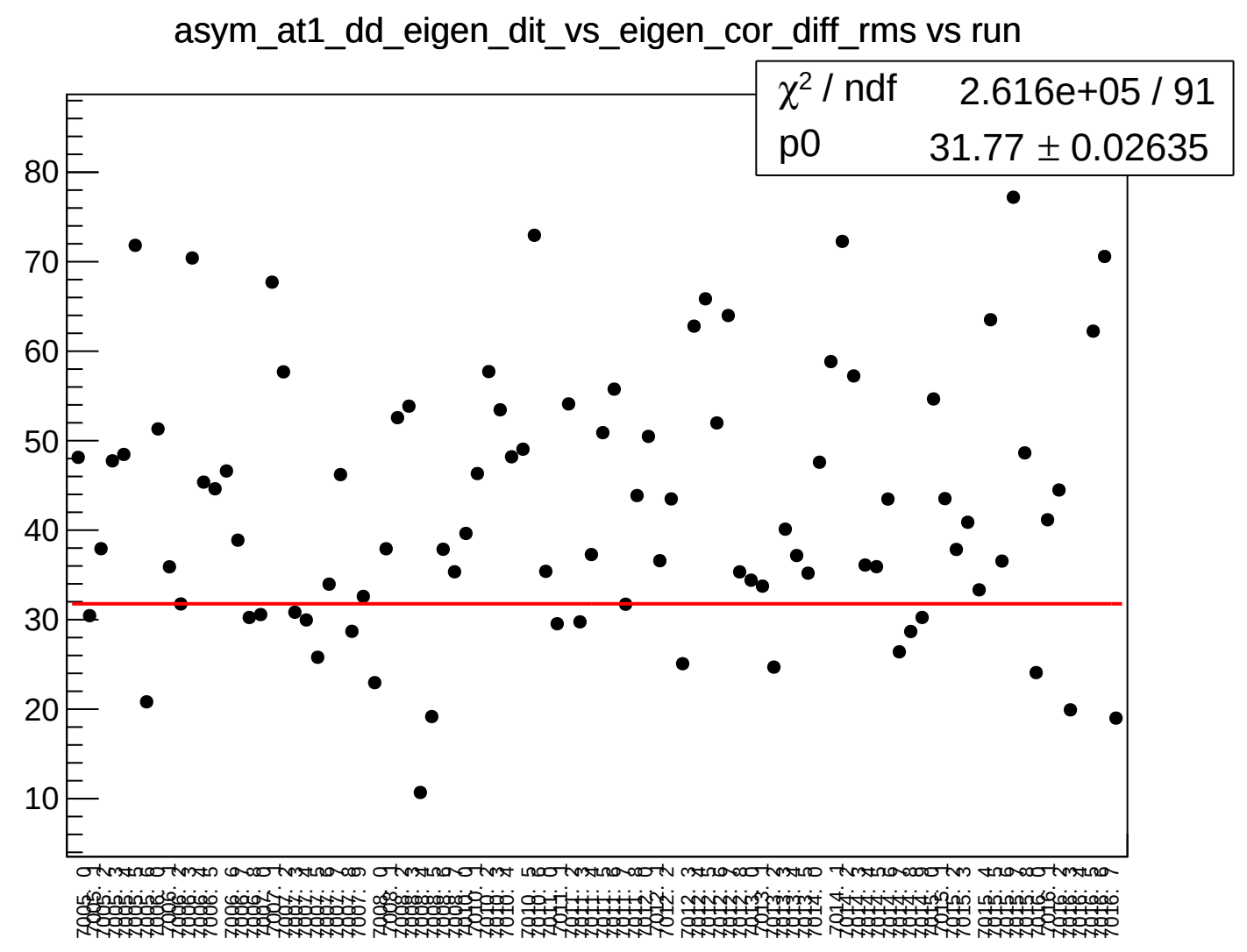

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.84 / 91
p0 −0.02911 ± 0.03727
pull
Entries 92
Mean 95.38
Std Dev 0

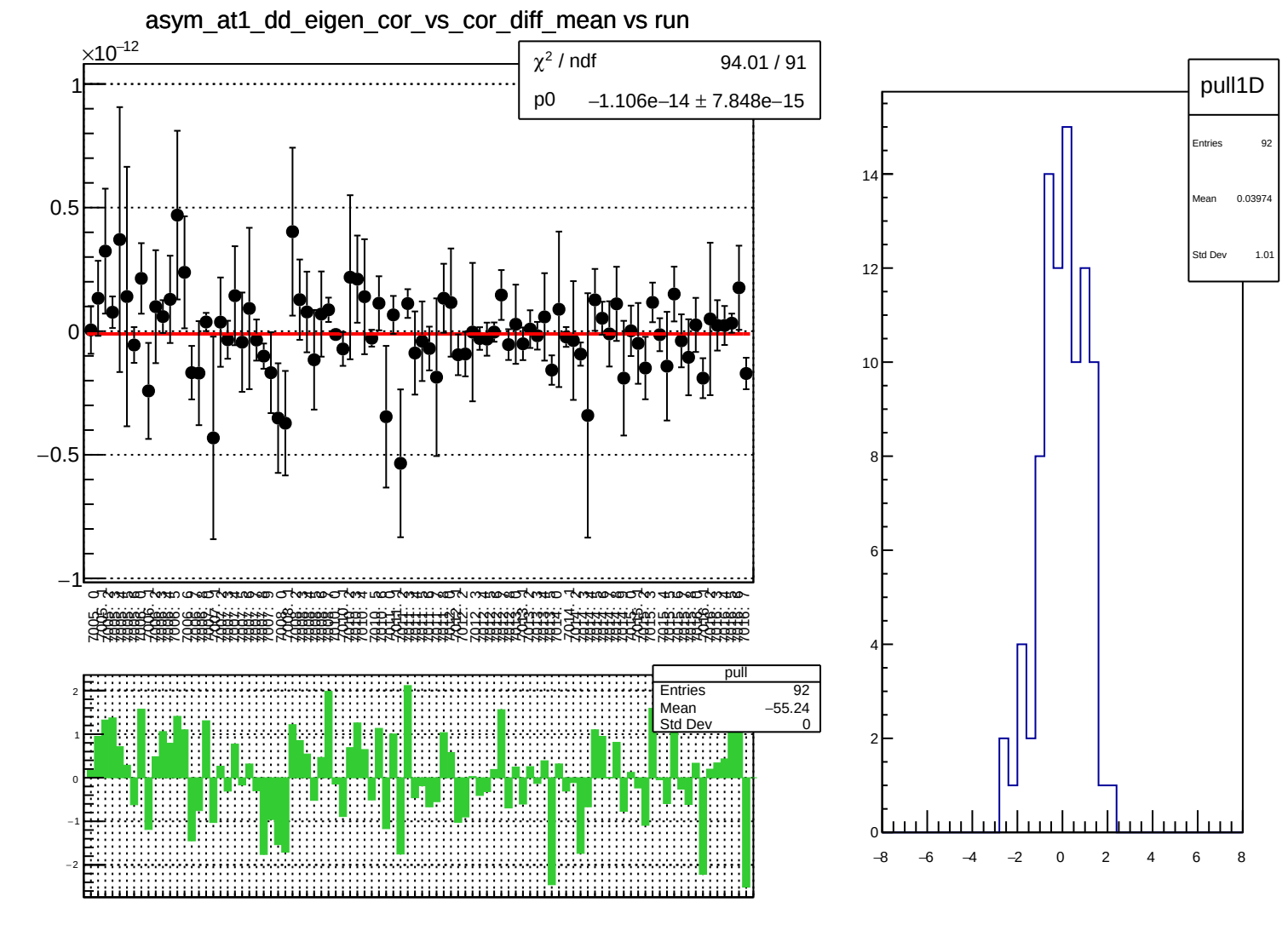

pull1D
Entries 92
Mean 0.05777
Std Dev 1.008

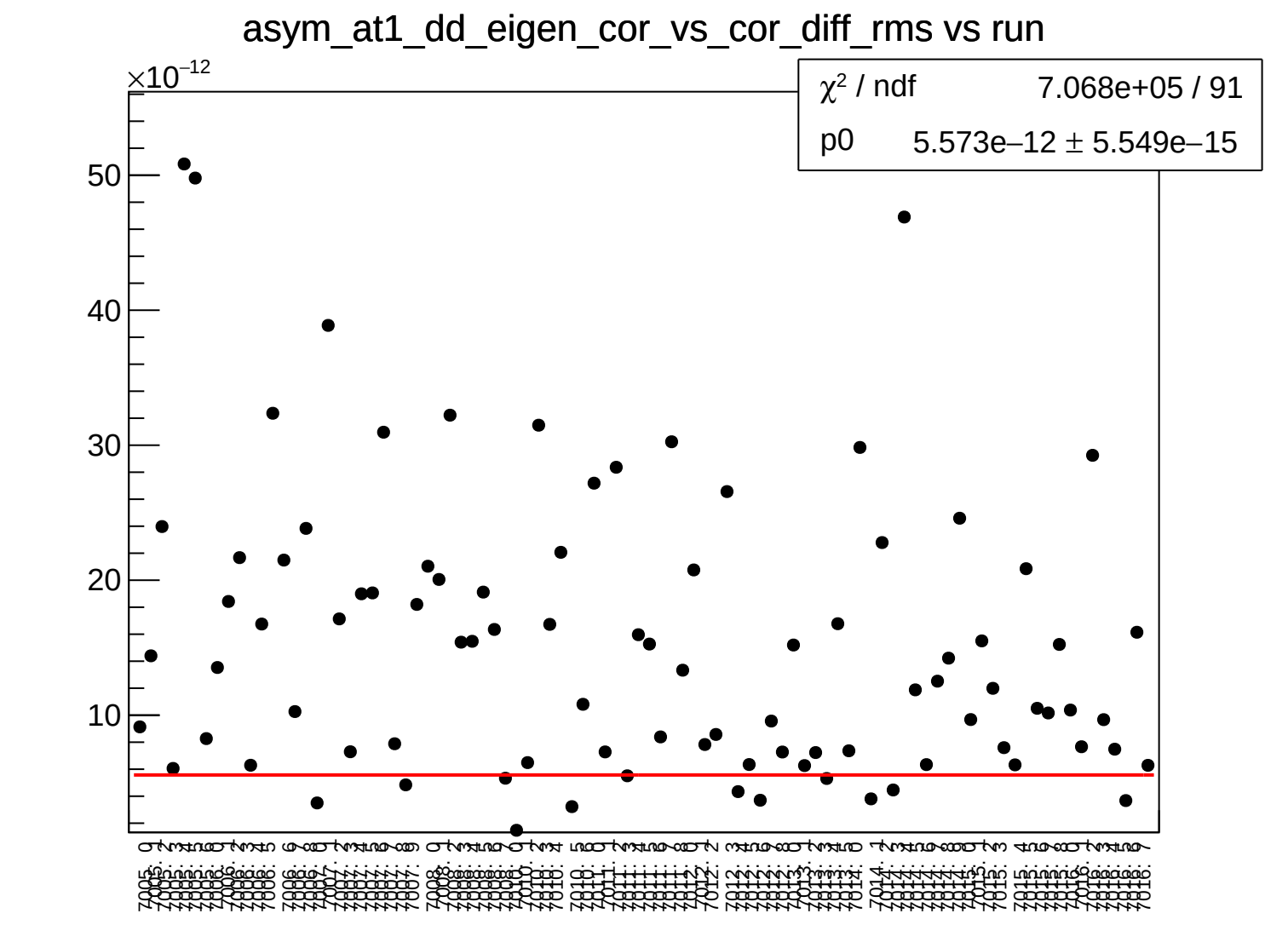

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.616e+05 / 91
p0 31.77 ± 0.02635
80
70
60
50
40
30
20
10

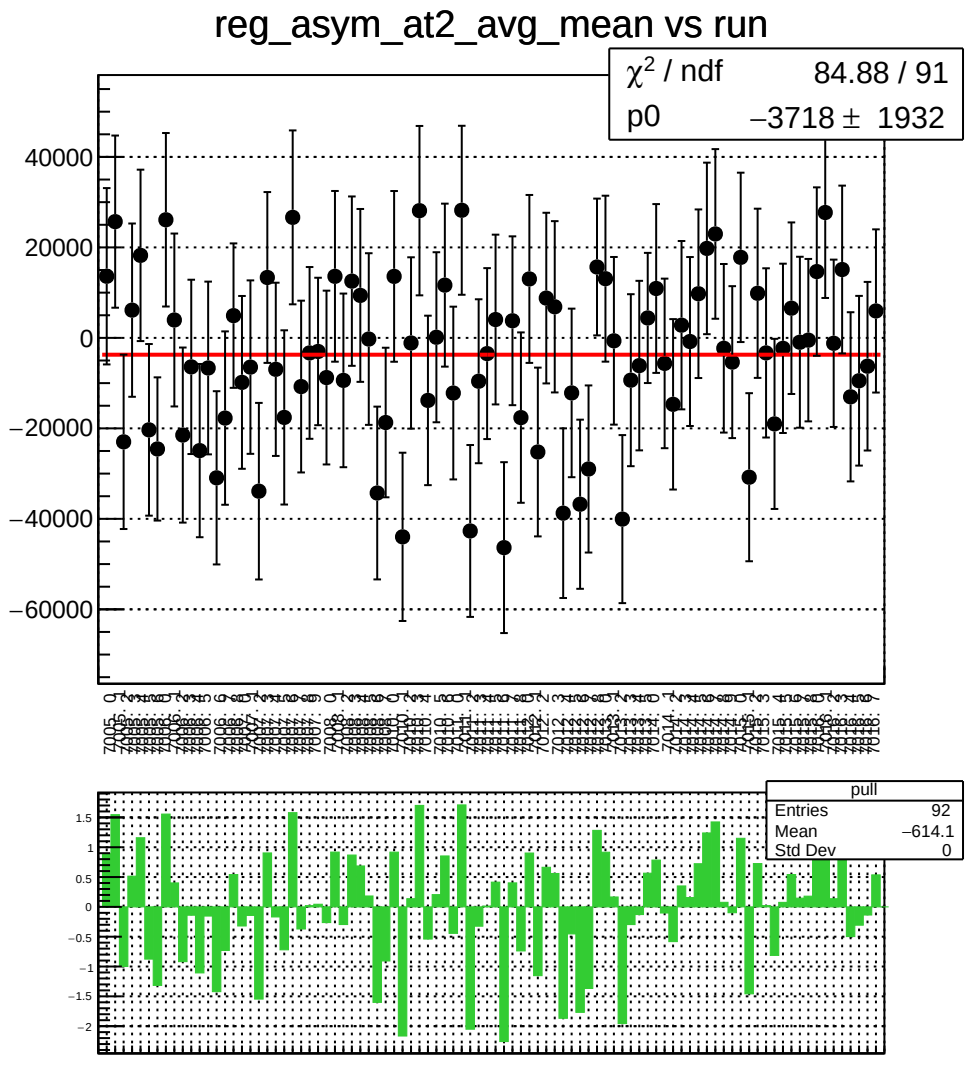

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.84 / 91
p0 −0.02911 ± 0.03727
pull
Entries 92
Mean 95.38
Std Dev 0

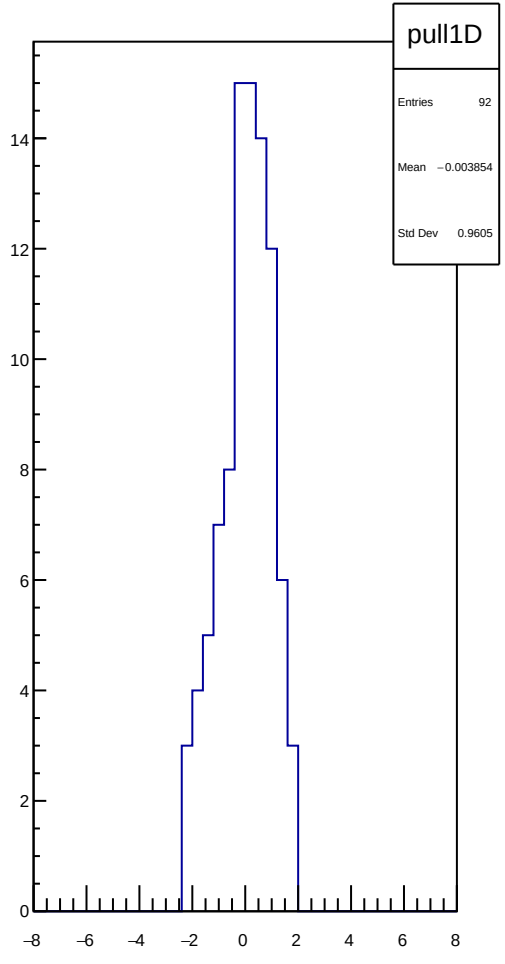

pull1D
Entries 92
Mean 0.05777
Std Dev 1.008

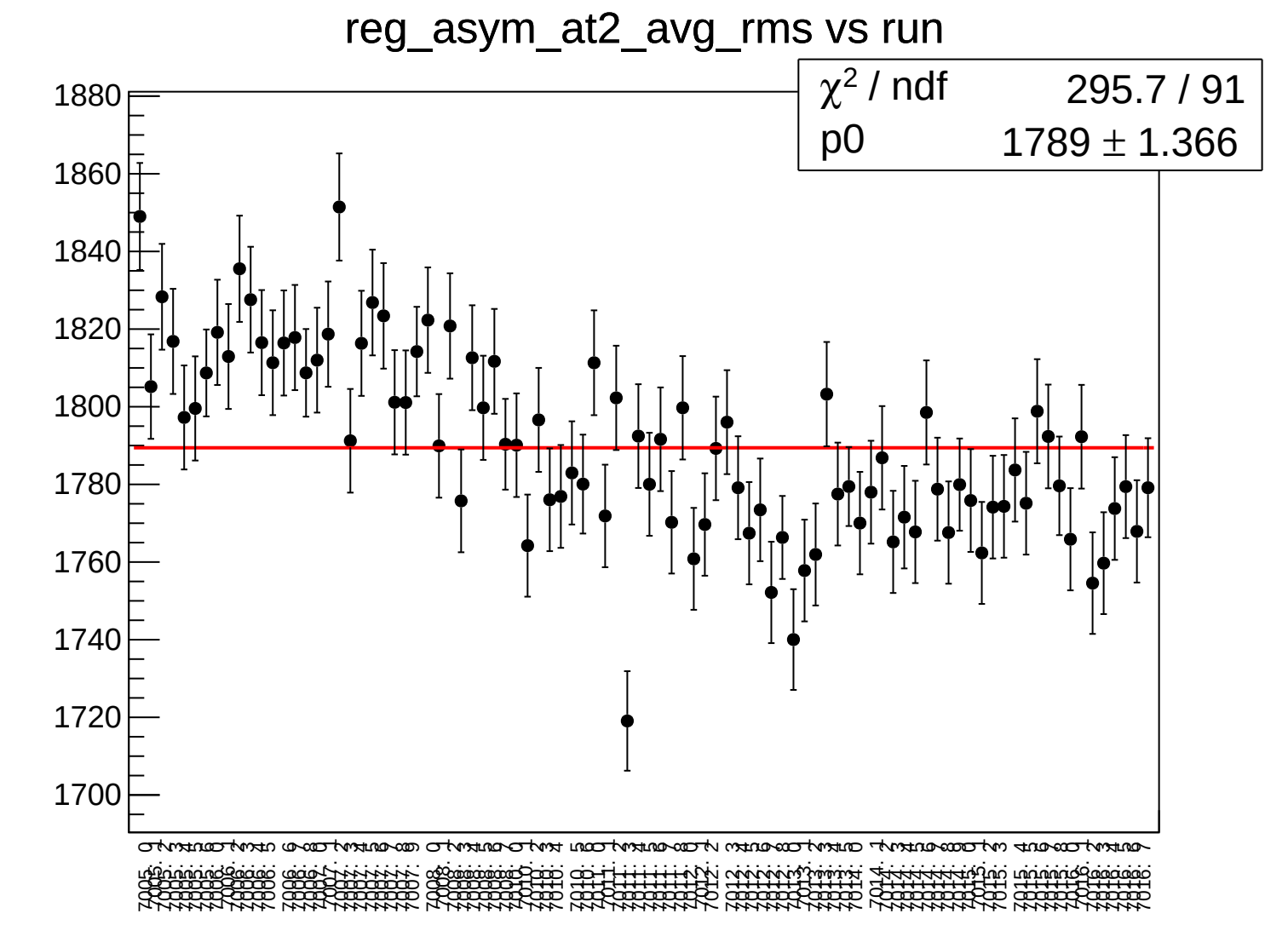

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.616e+05 / 91
p0 31.77 ± 0.02635
80
70
60
50
40
30
20
10

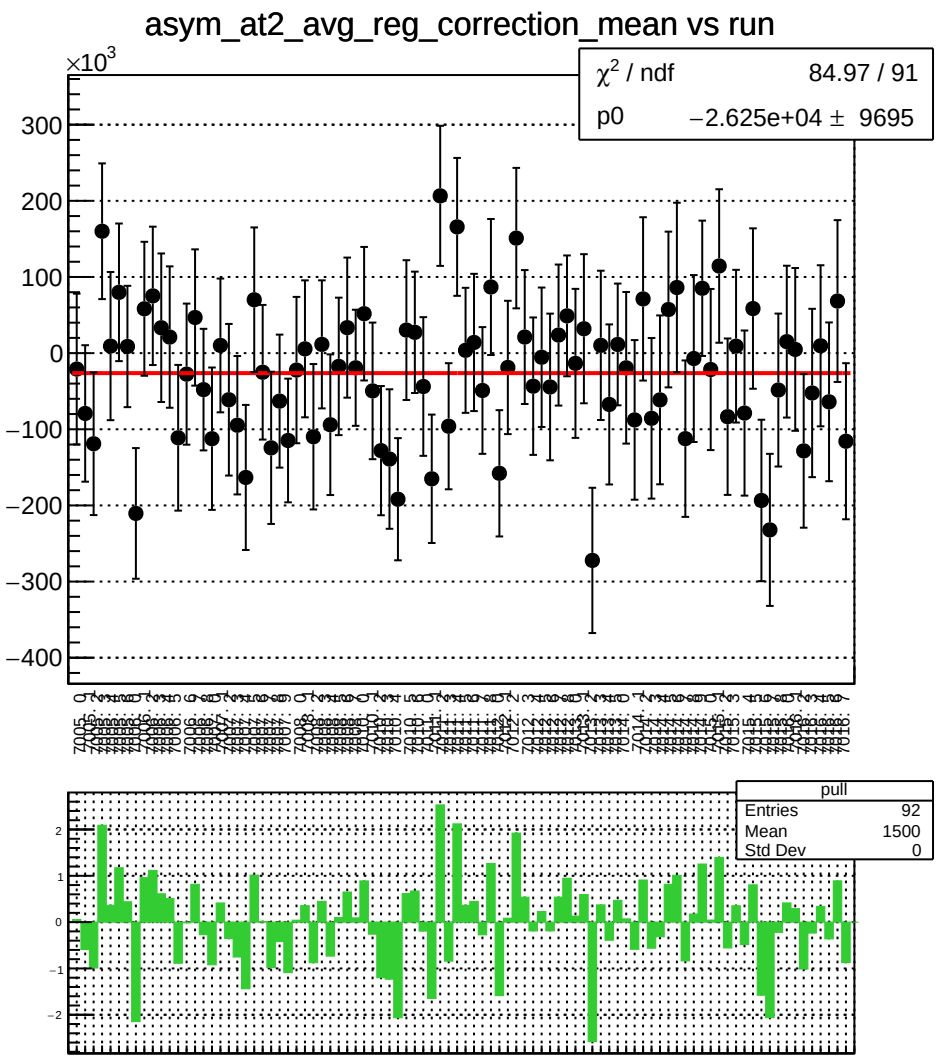

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.01 / 91
p0 −1.106e−14 ± 7.848e−15
pull
Entries 92
Mean −55.24
Std Dev 0
pull1D
Entries 92
Mean 0.03974
Std Dev 1.01

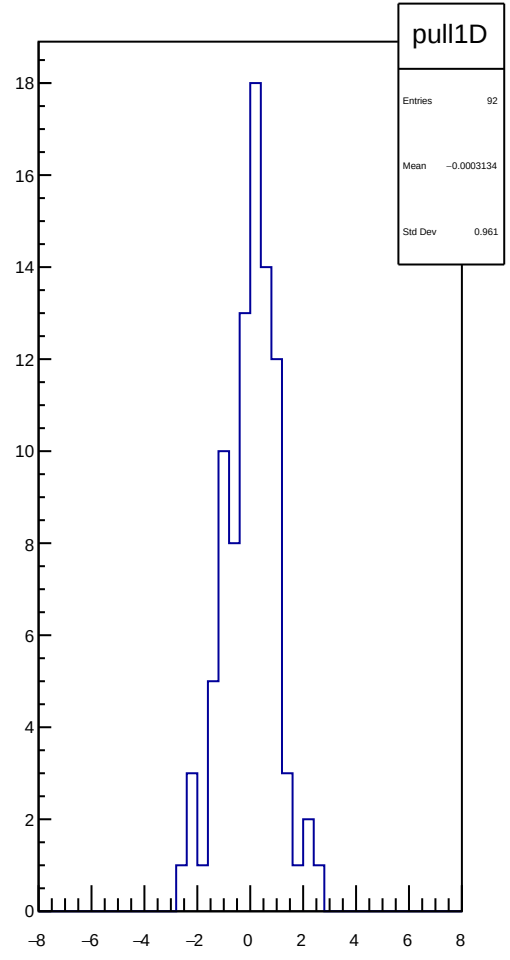

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.068e+05 / 91
p0 5.573e−12 ± 5.549e−15
50
40
30
20
10

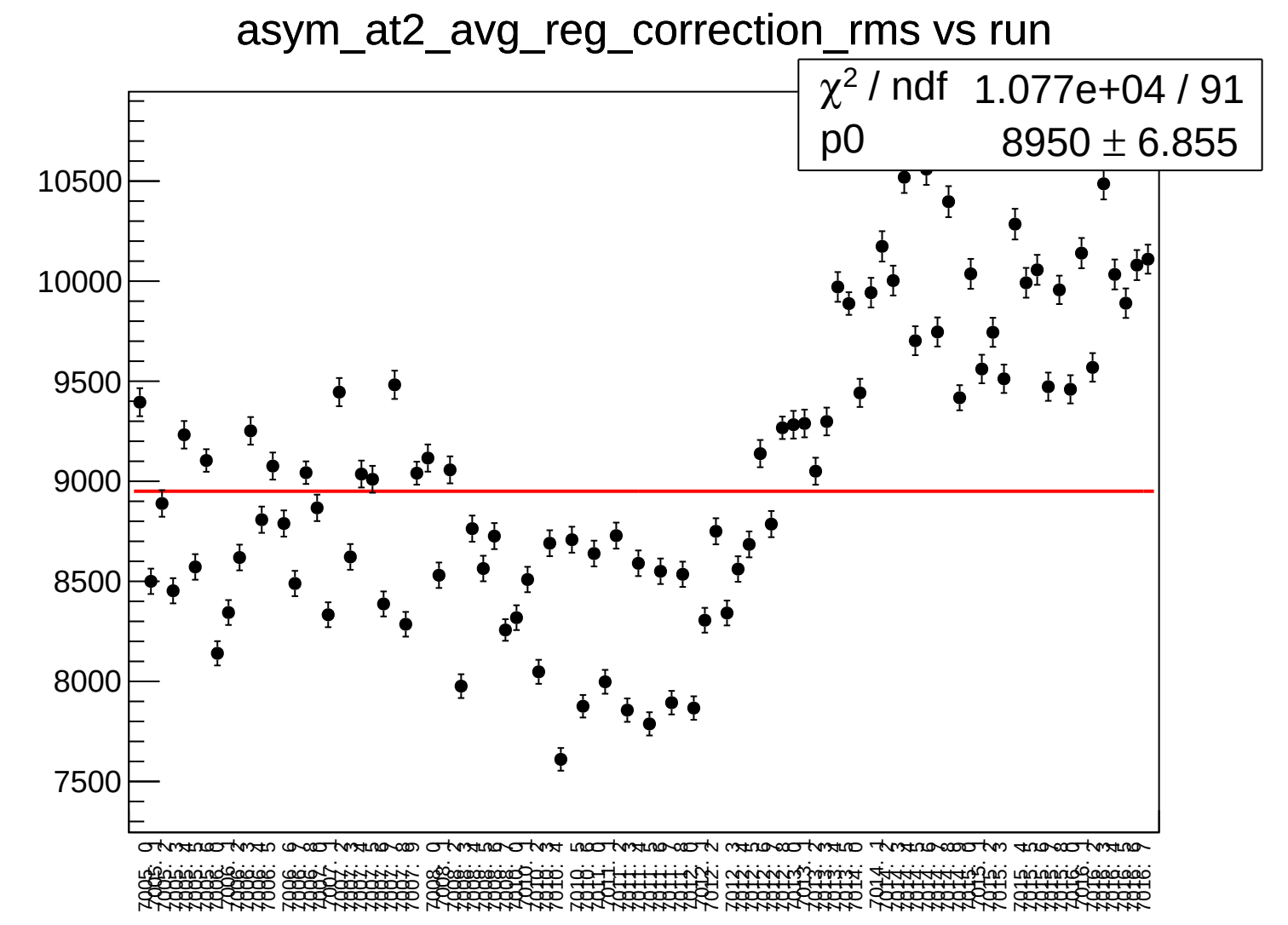

reg_asym_at2_avg_mean vs run
χ² / ndf 84.88 / 91
p0 −3718 ± 1932
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −614.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

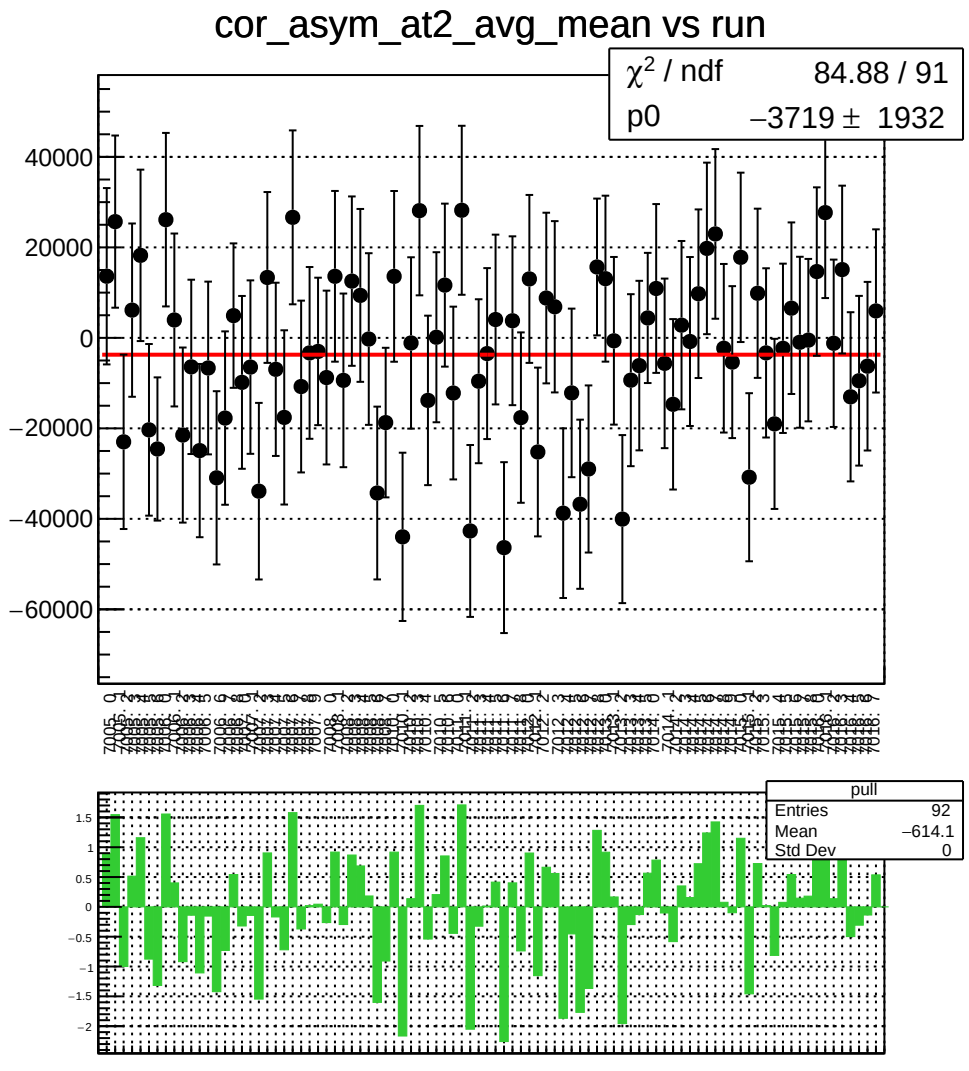

pull1D
Entries 92
Mean −0.003854
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

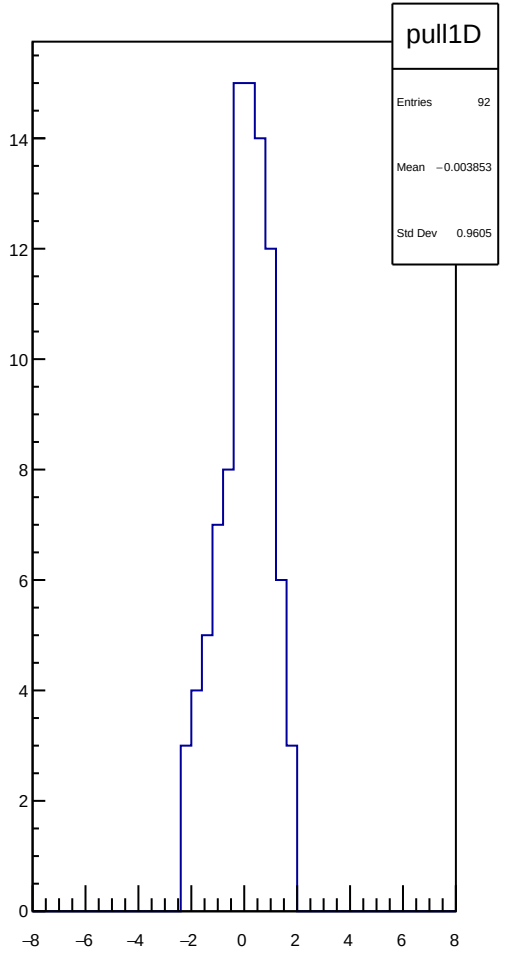

reg_asym_at2_avg_rms vs run
χ² / ndf 295.7 / 91
p0 1789 ± 1.366
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

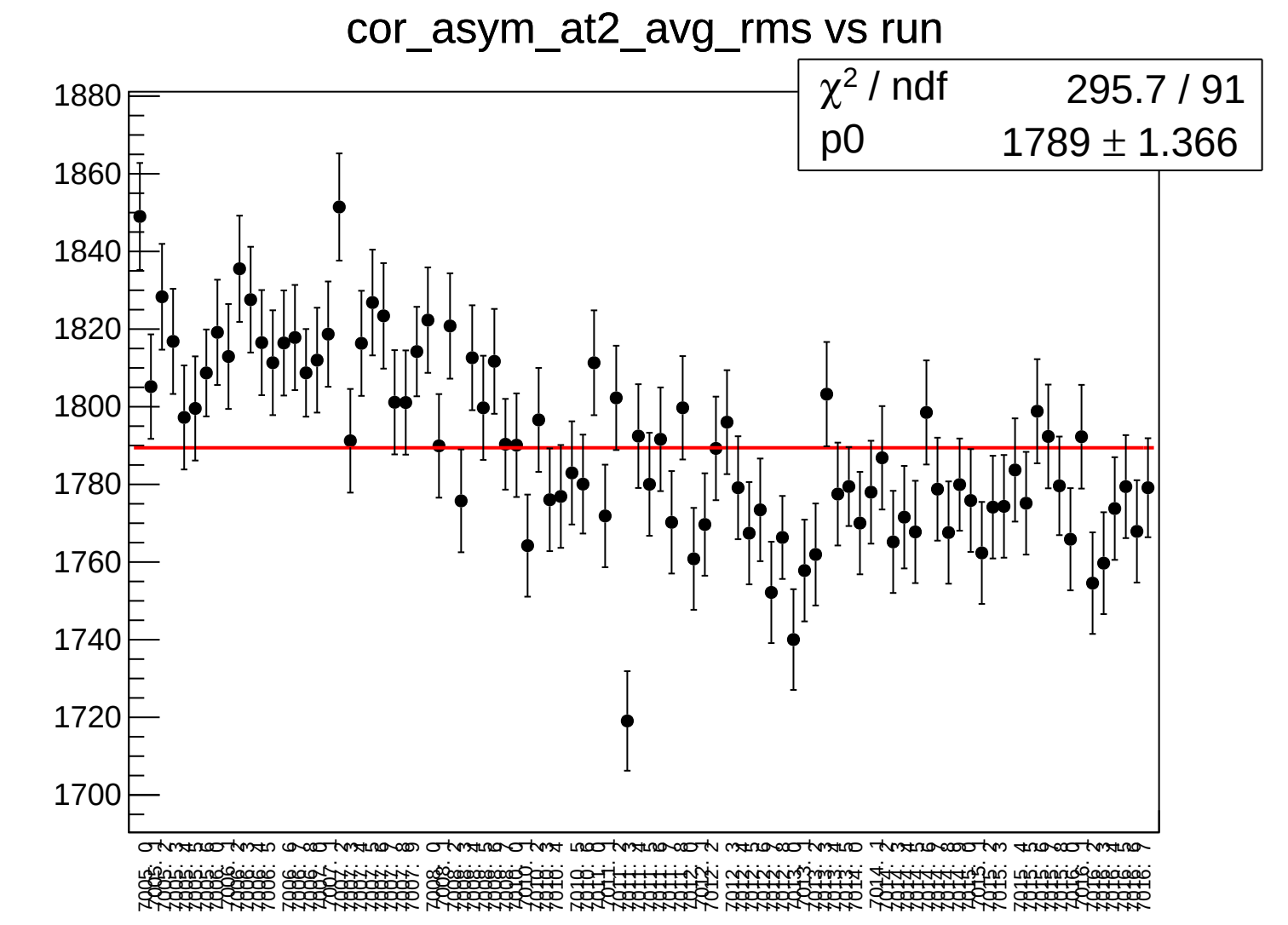

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.97 / 91
p0 −2.625e+04 ± 9695
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean 1500
Std Dev 0
2
1
0
−1
−2

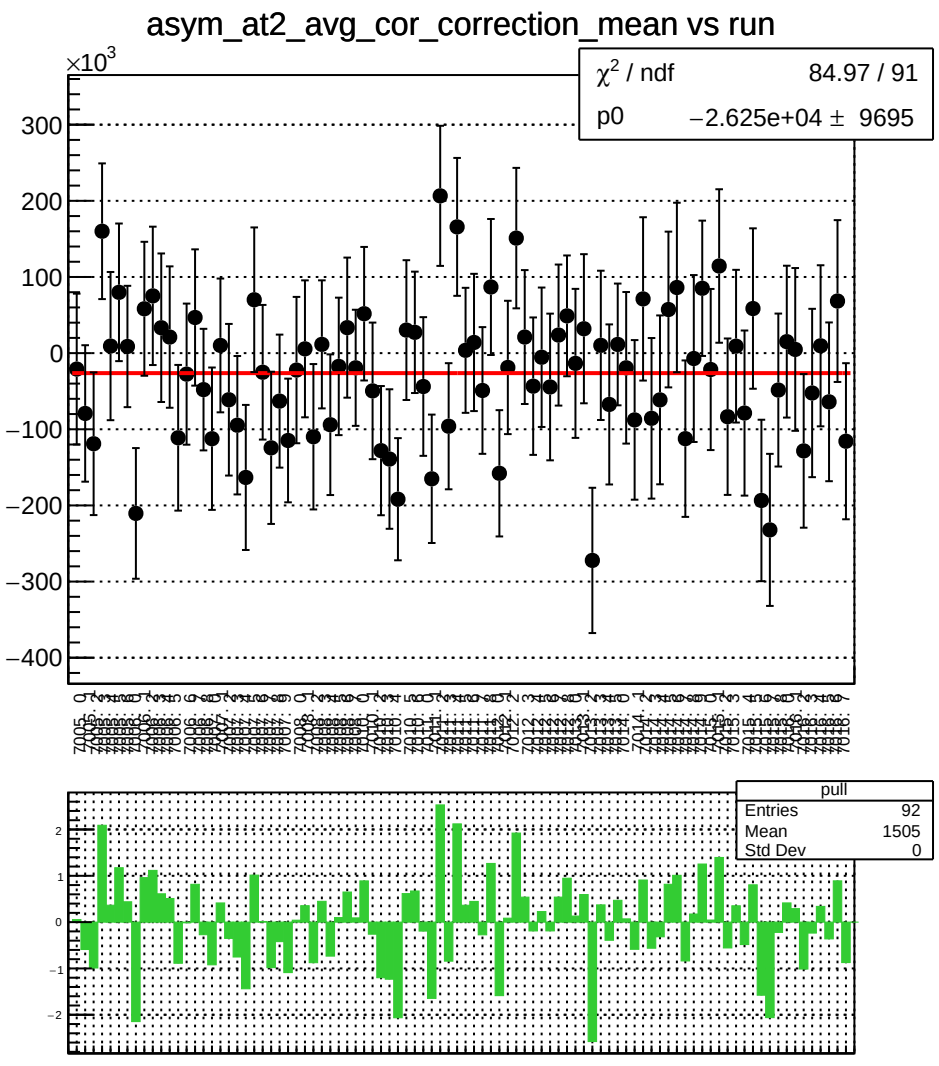

pull1D
Entries 92
Mean −0.0003134
Std Dev 0.961
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

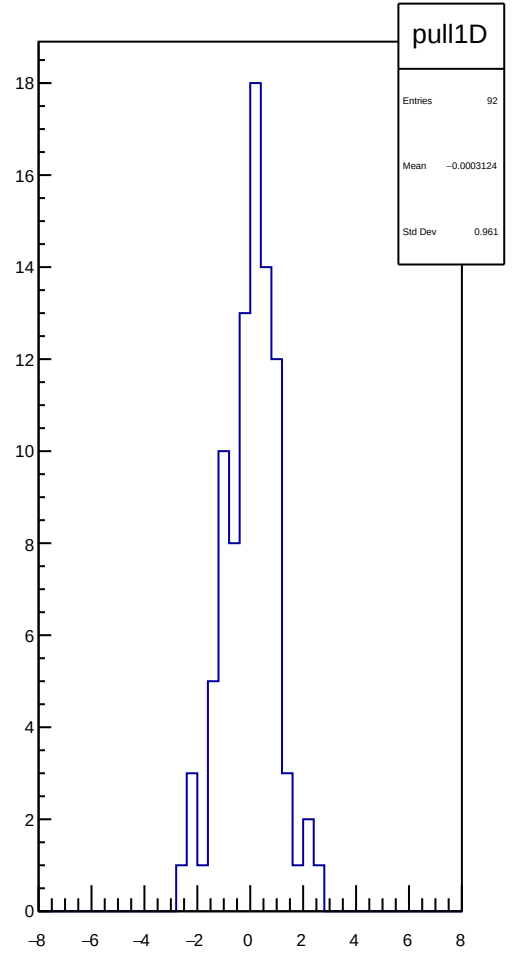

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 1.077e+04 / 91
p0 8950 ± 6.855
10500
10000
9500
9000
8500
8000
7500

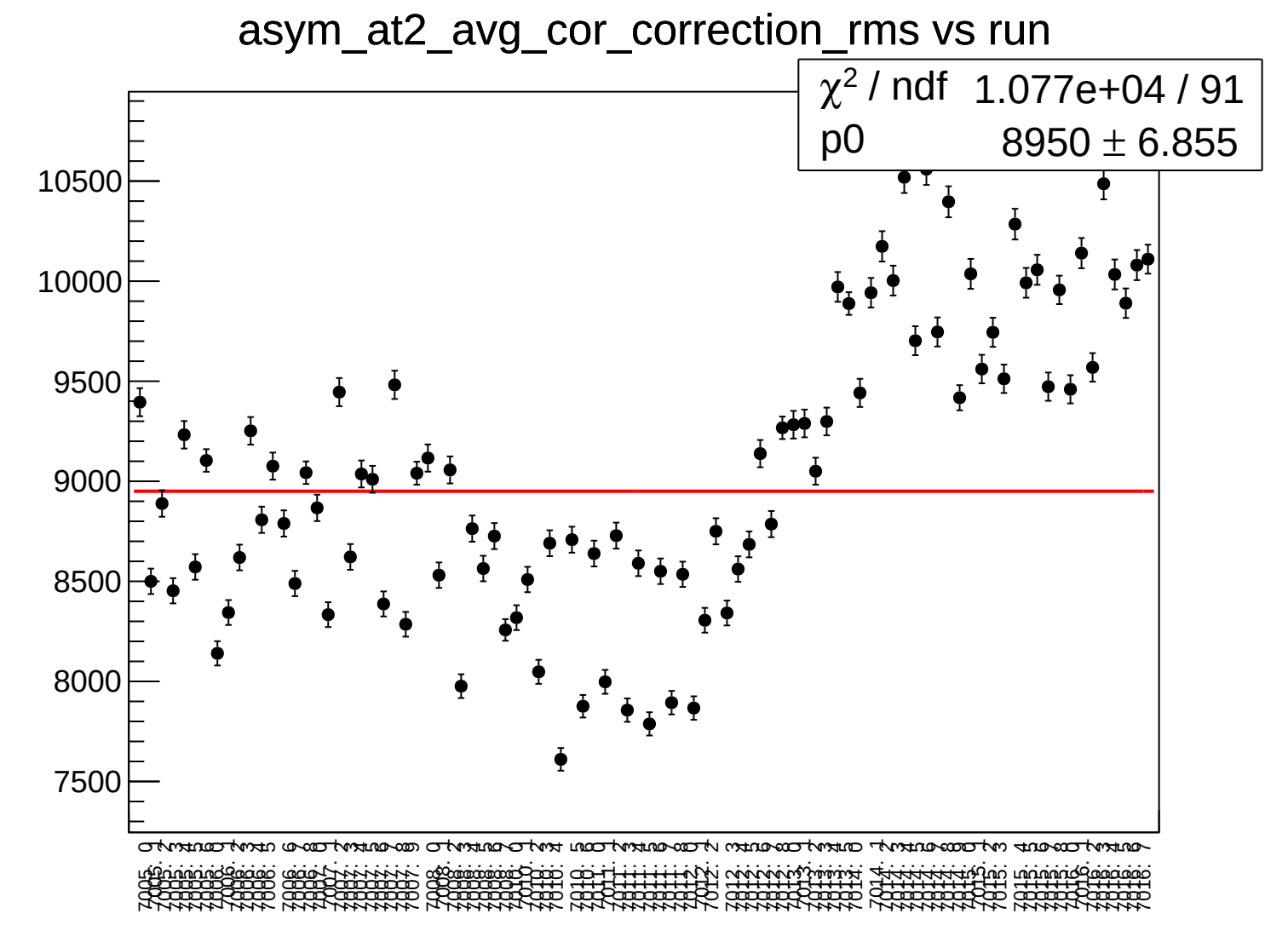

cor_asym_at2_avg_mean vs run
χ² / ndf 84.88 / 91
p0 −3719 ± 1932
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −614.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

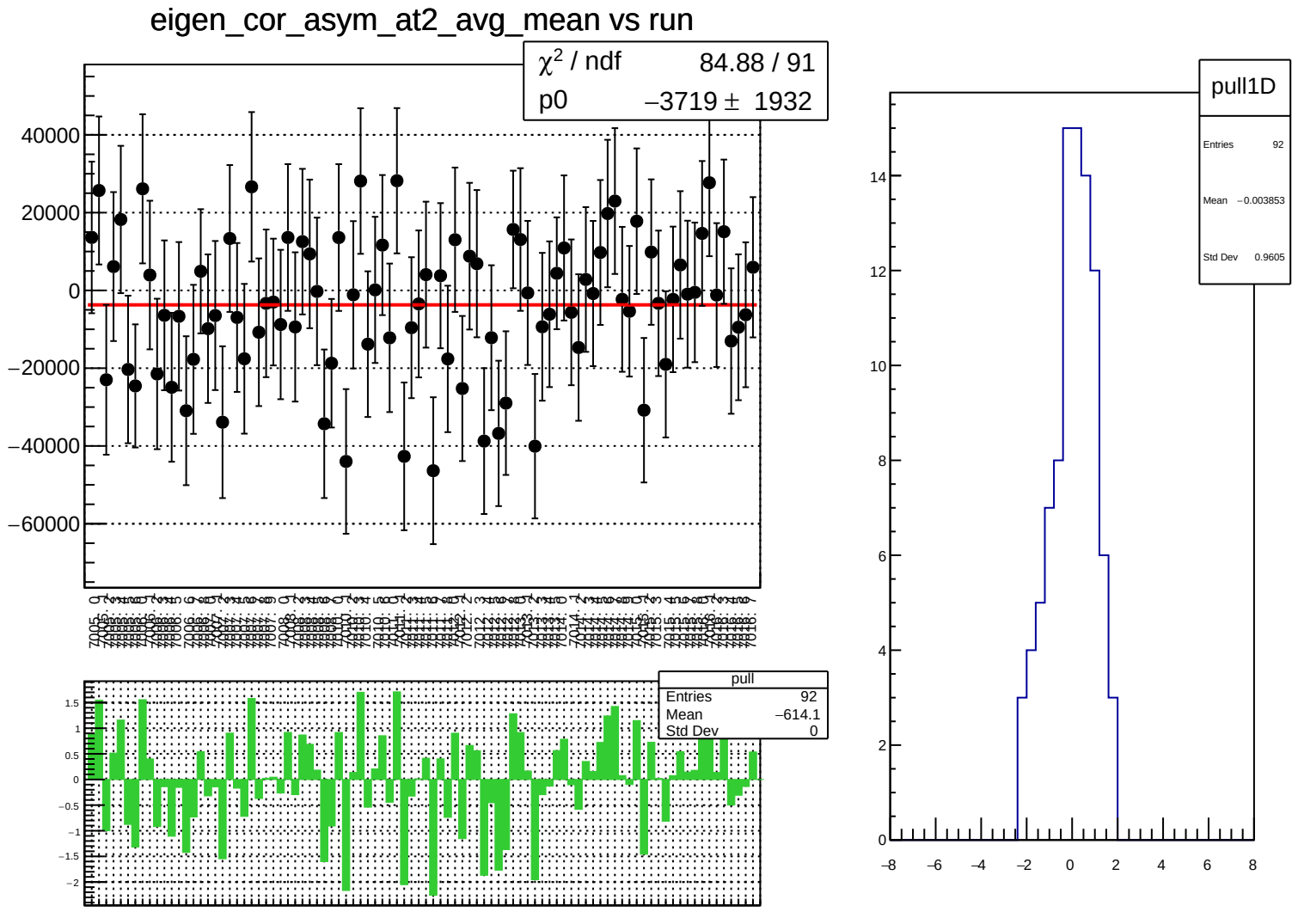

pull1D
Entries 92
Mean −0.003853
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

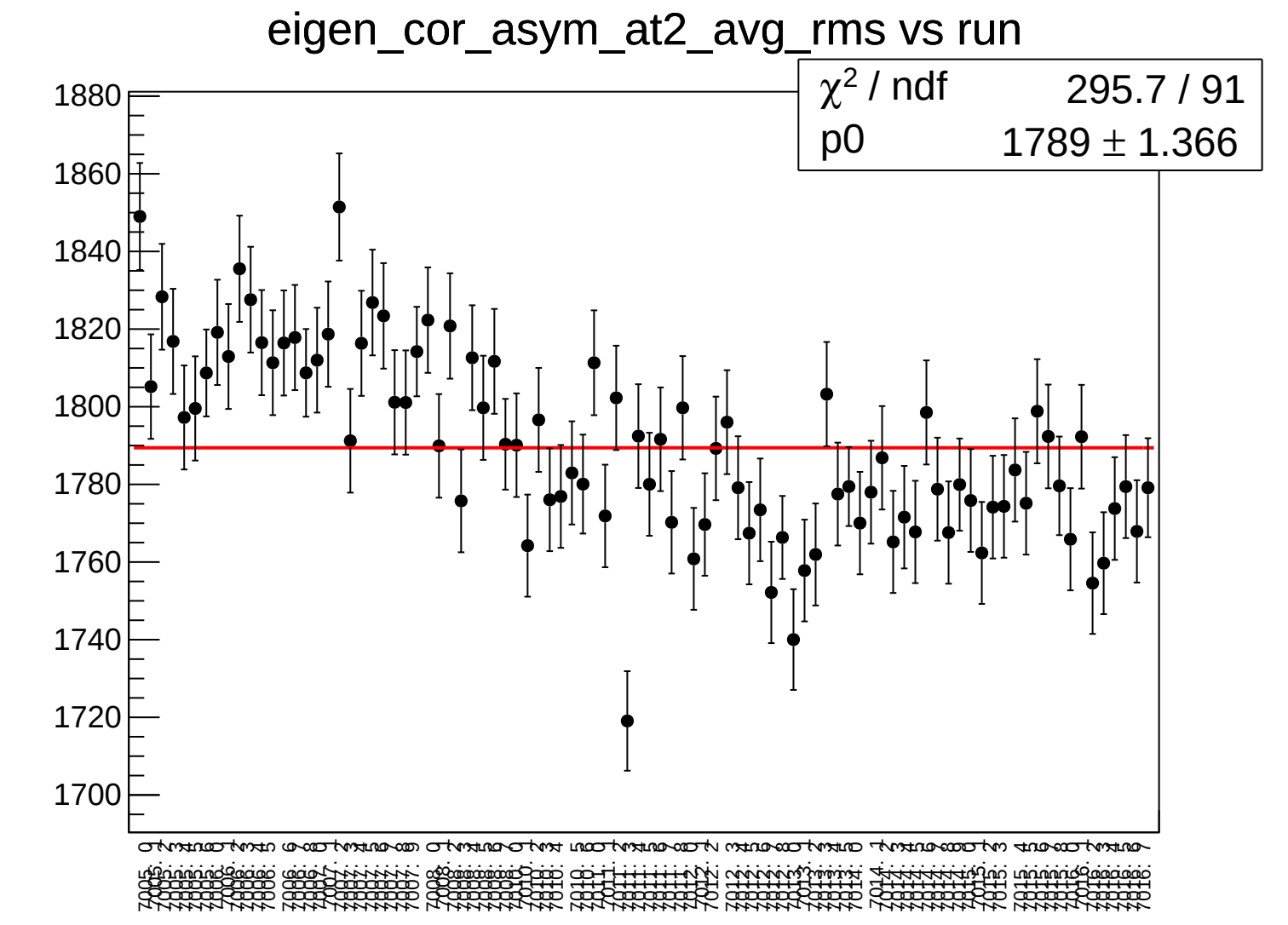

cor_asym_at2_avg_rms vs run
χ² / ndf 295.7 / 91
p0 1789 ± 1.366
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

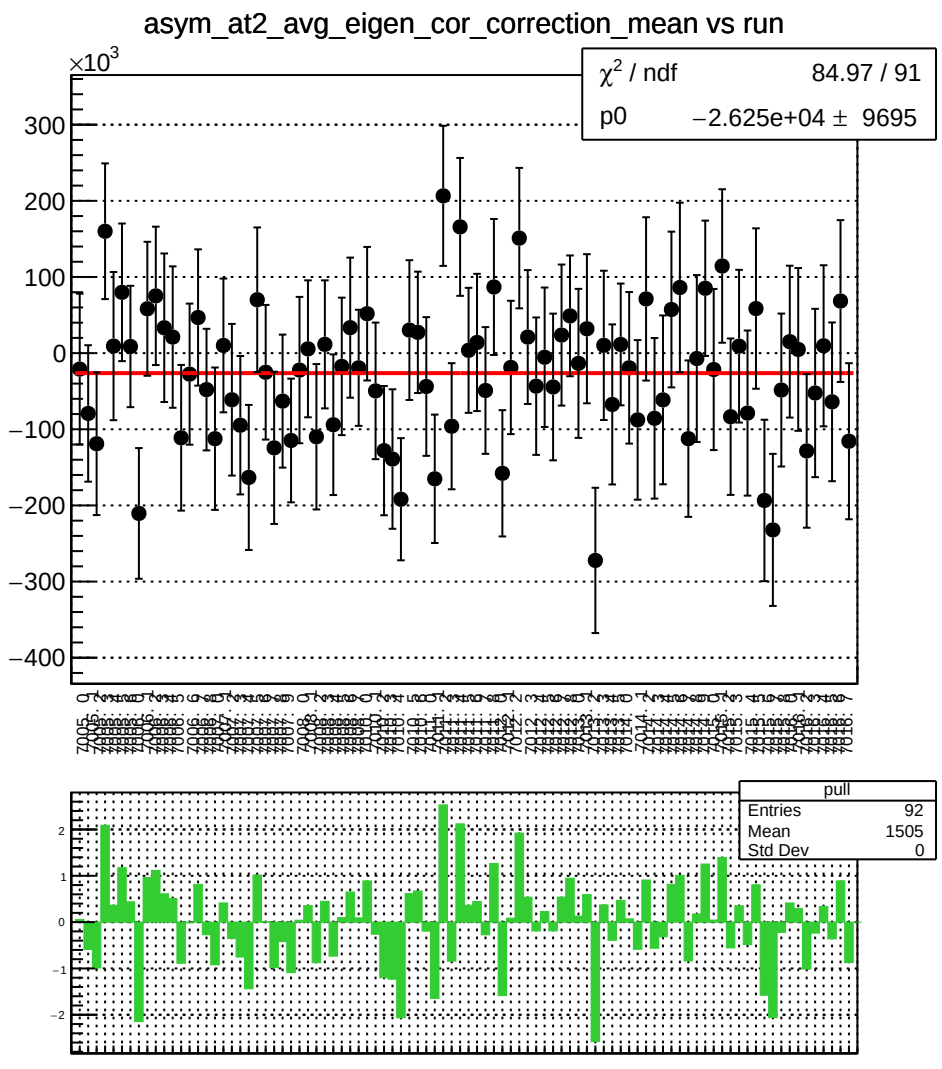

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.97 / 91
p0 −2.625e+04 ± 9695
pull
Entries 92
Mean 1505
Std Dev 0

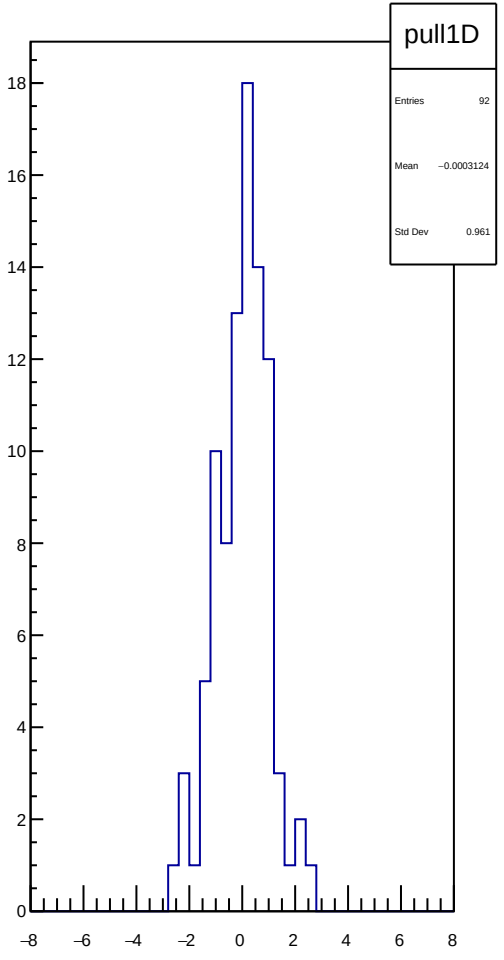

pull1D
Entries 92
Mean −0.0003124
Std Dev 0.961

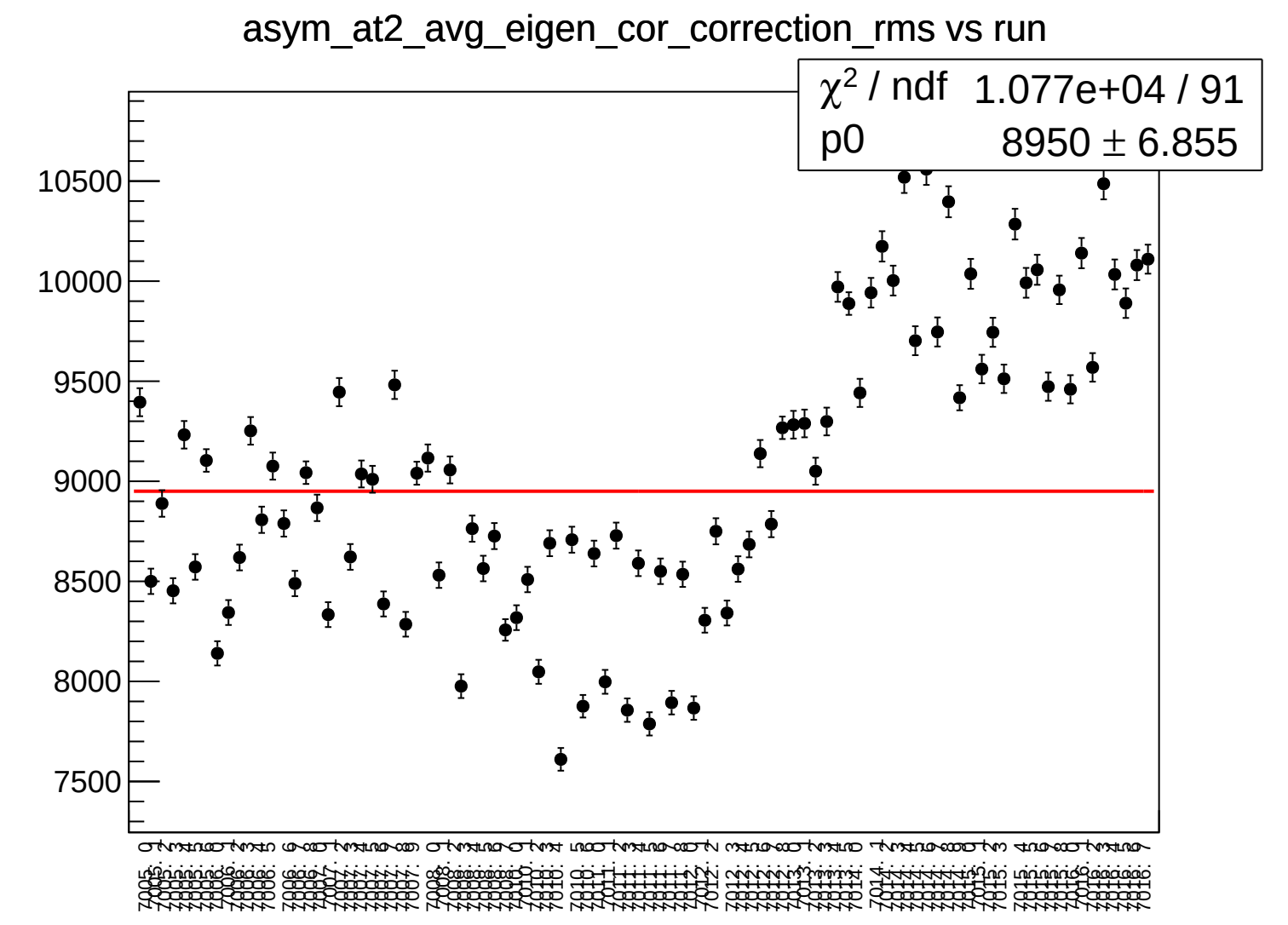

asym_at2_avg_cor_correction_rms vs run
$\chi^2$ / ndf 1.077e+04 / 91
p0 8950 ± 6.855
10500
10000
9500
9000
8500
8000
7500

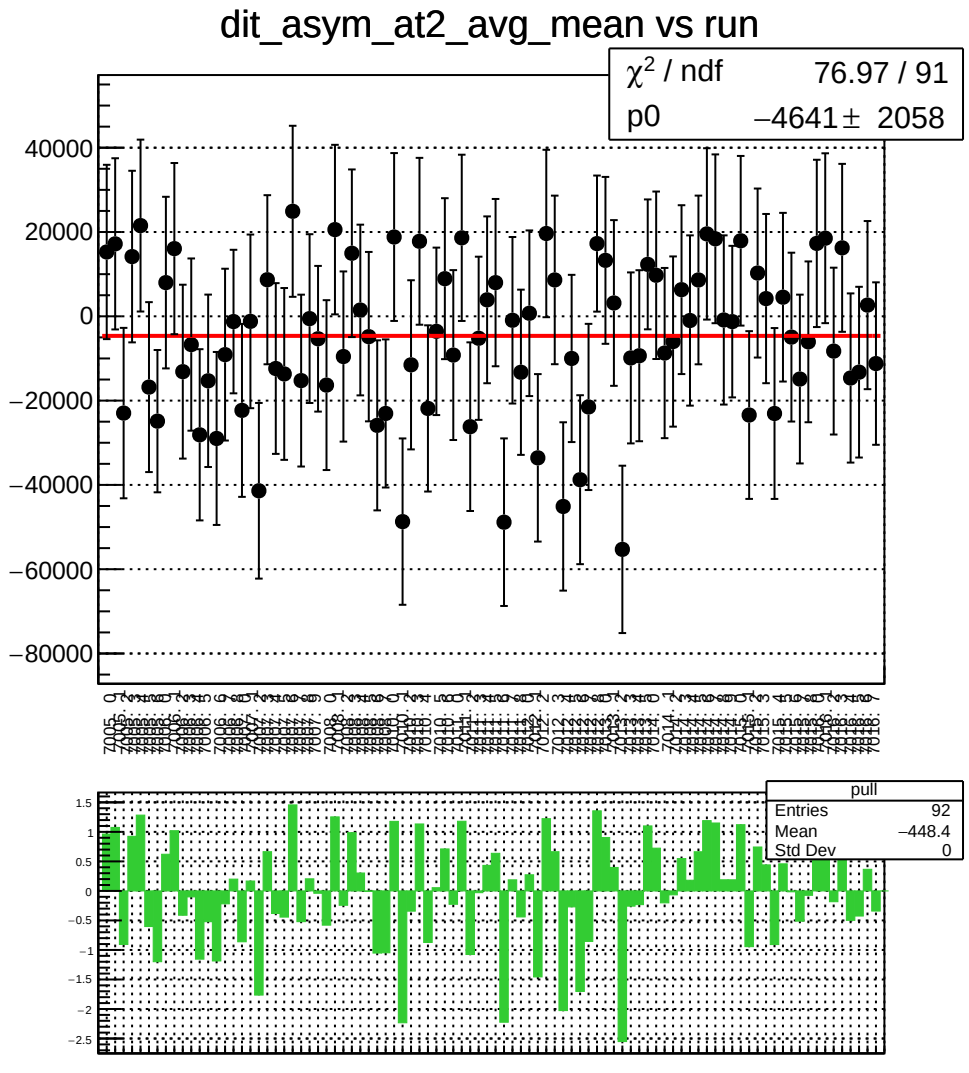

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 84.88 / 91
p0 −3719 ± 1932
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −614.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.003853
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

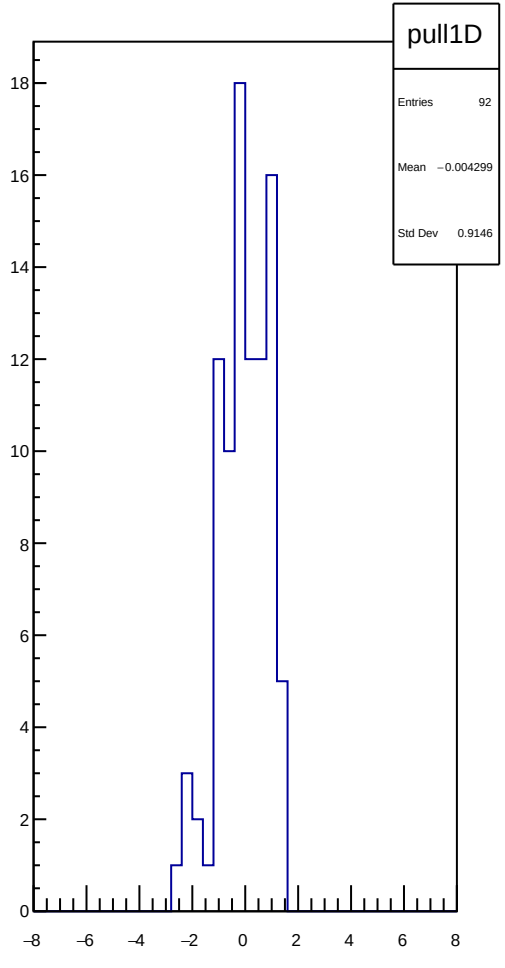

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 295.7 / 91
p0 1789 ± 1.366
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

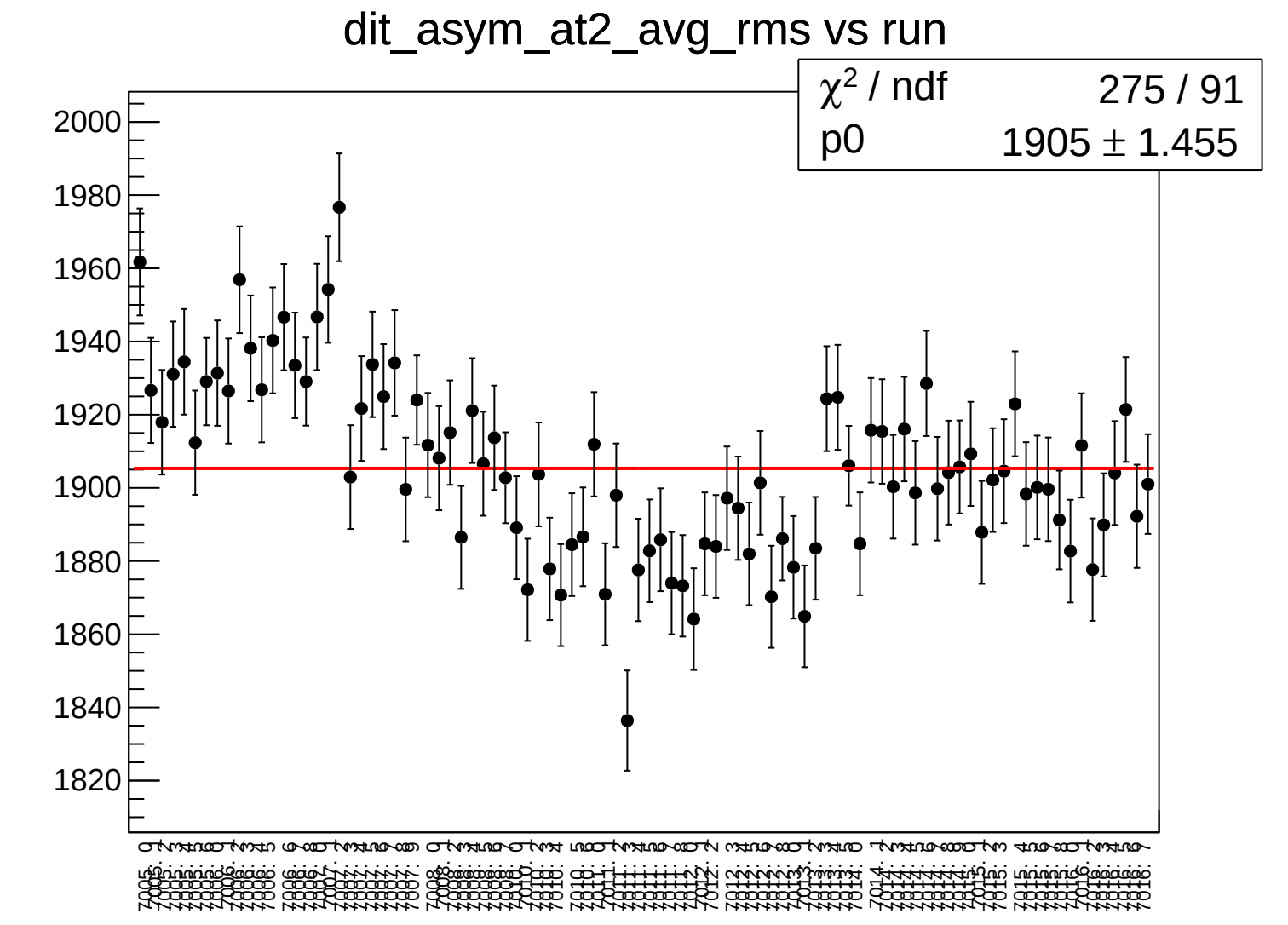

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.97 / 91
p0 −2.625e+04 ± 9695
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean 1505
Std Dev 0
2
1
0
−1
−2

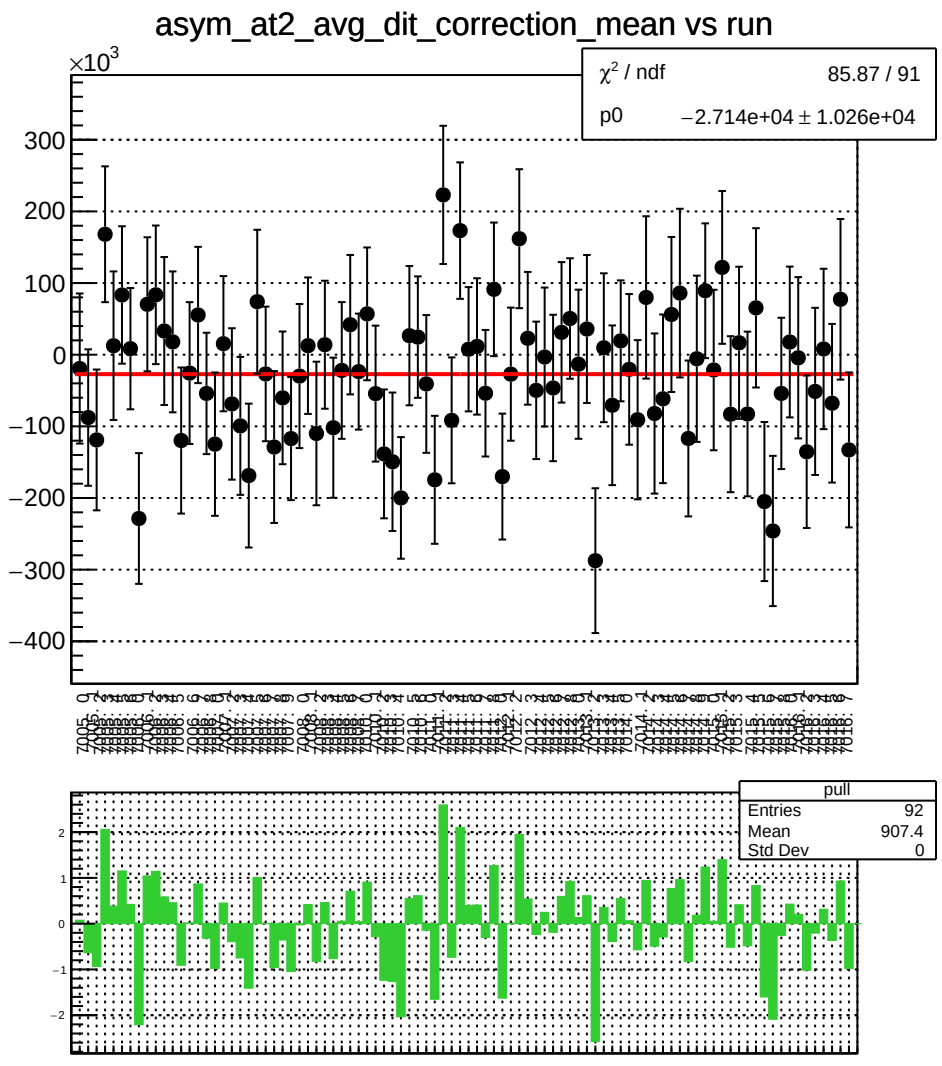

pull1D
Entries 92
Mean −0.0003124
Std Dev 0.961
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

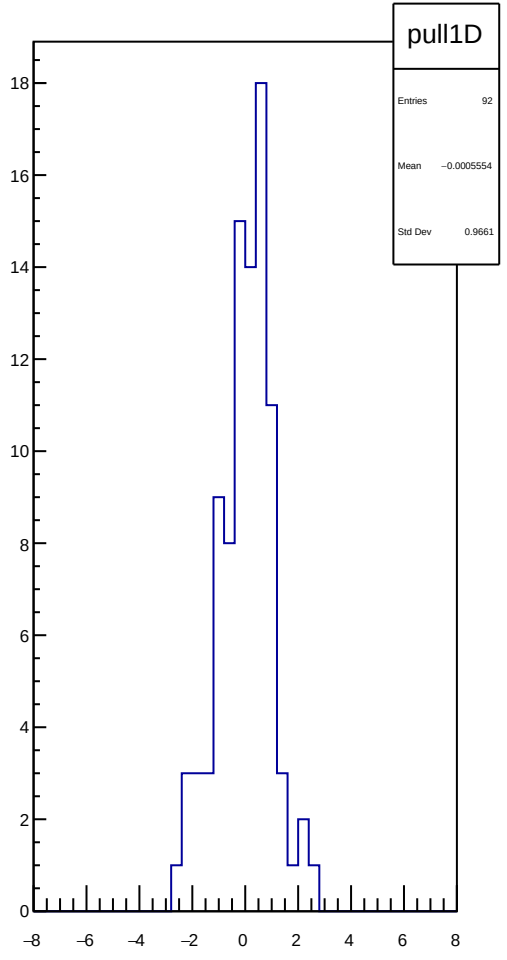

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.077e+04 / 91
p0 8950 ± 6.855
10500
10000
9500
9000
8500
8000
7500

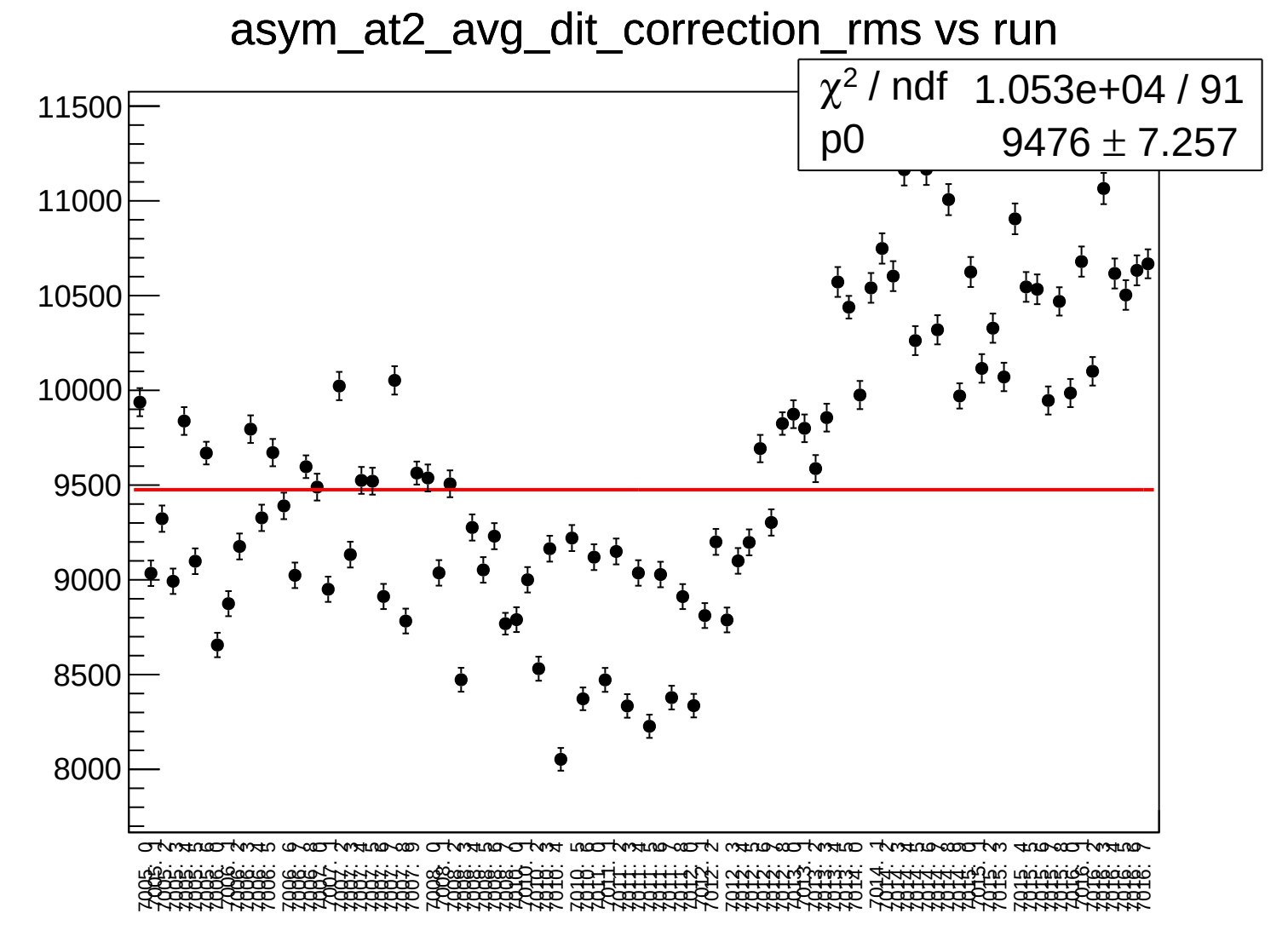

dit_asym_at2_avg_mean vs run
χ² / ndf 76.97 / 91
p0 −4641 ± 2058
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −448.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

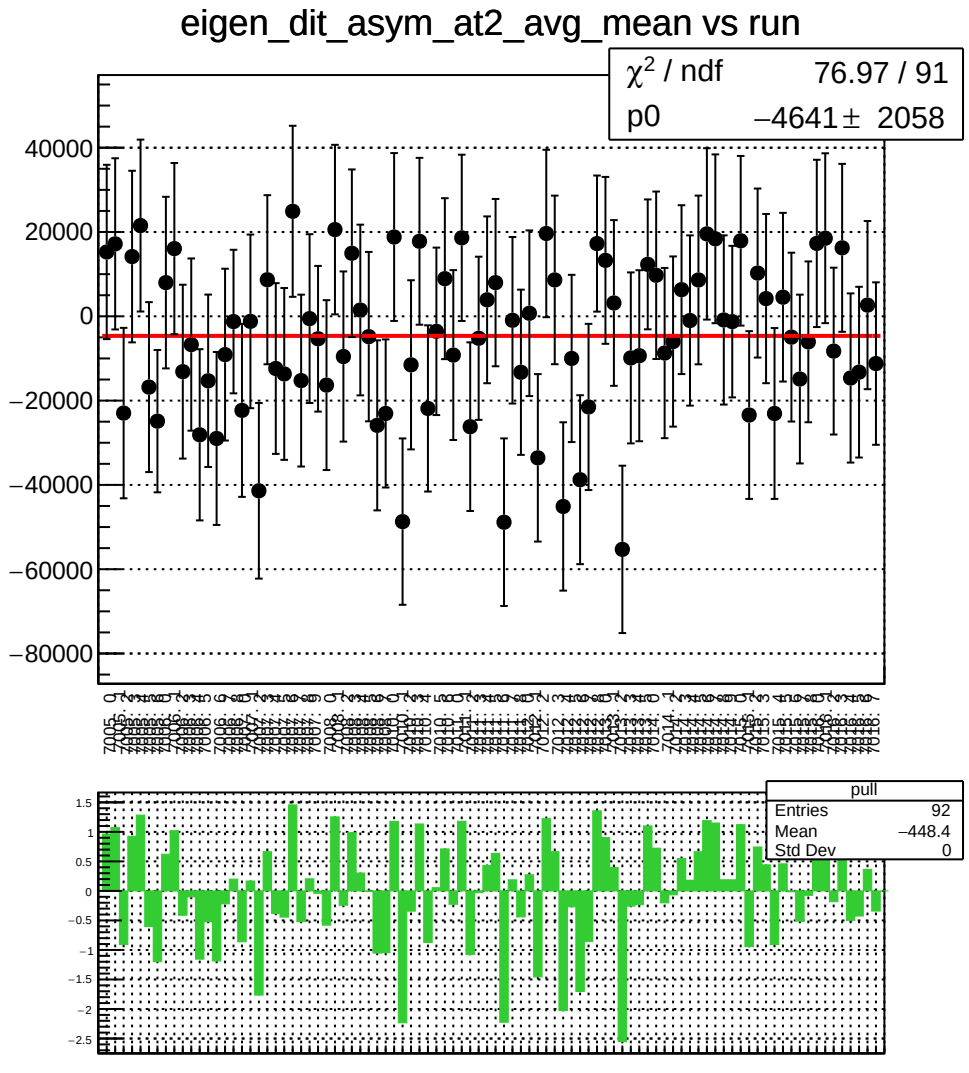

pull1D
Entries 92
Mean −0.004299
Std Dev 0.9146
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

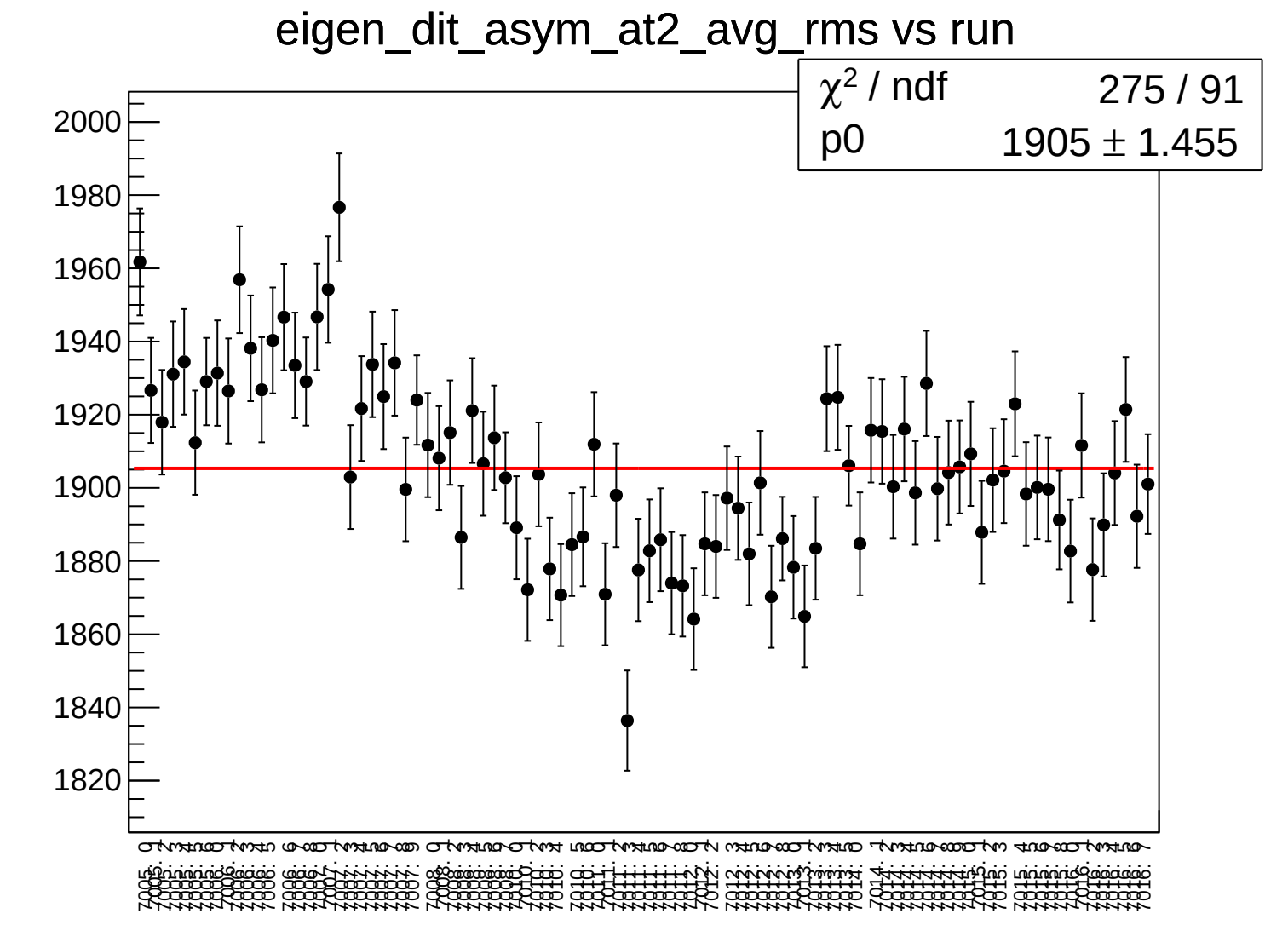

dit_asym_at2_avg_rms vs run
χ² / ndf 275 / 91
p0 1905 ± 1.455
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

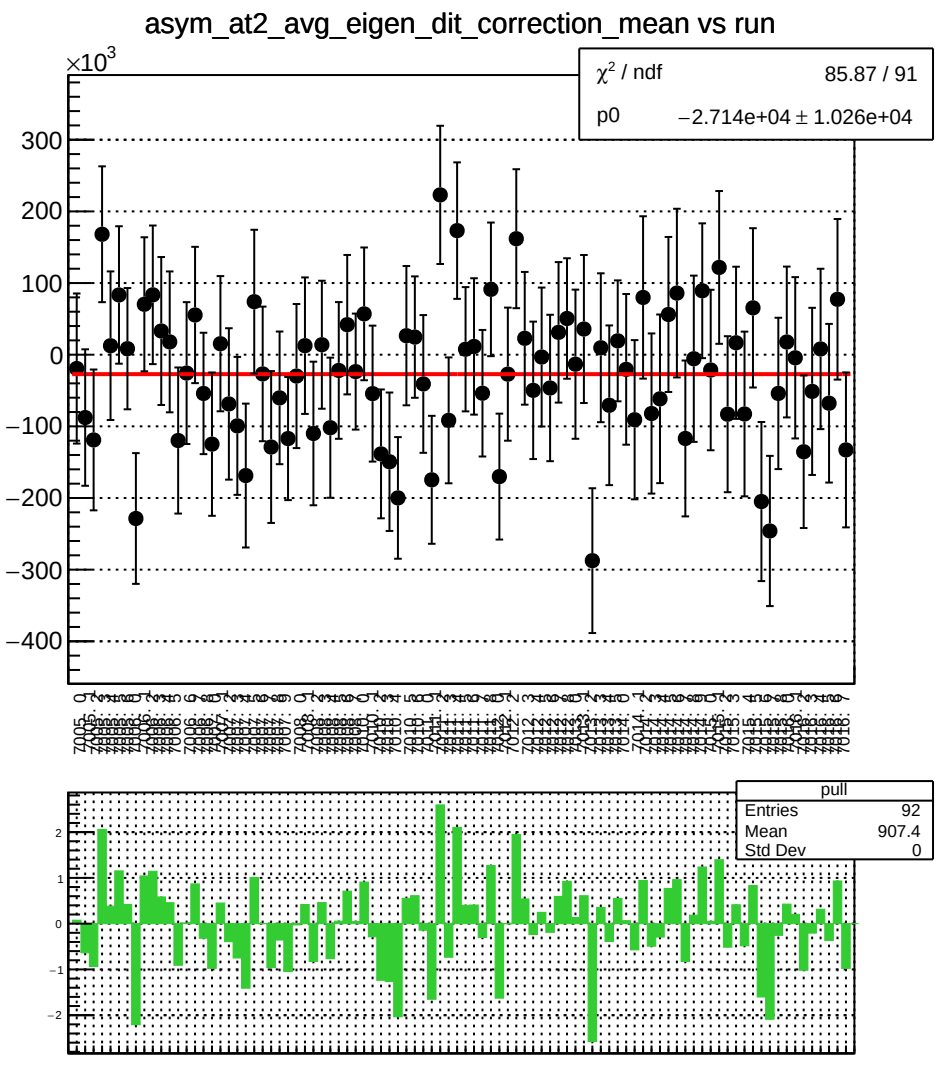

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.87 / 91
p0 −2.714e+04 ± 1.026e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean 907.4
Std Dev 0
2
1
0
−1
−2

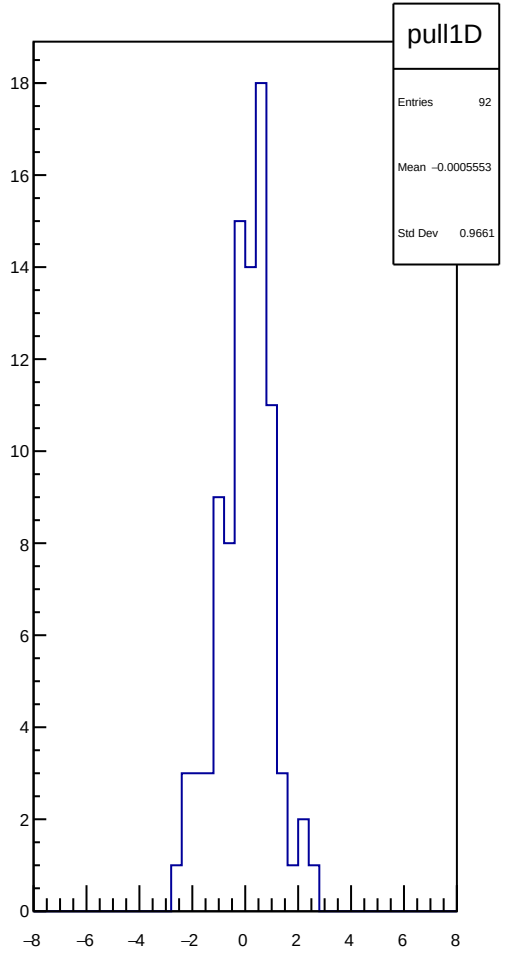

pull1D
Entries 92
Mean −0.0005554
Std Dev 0.9661
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

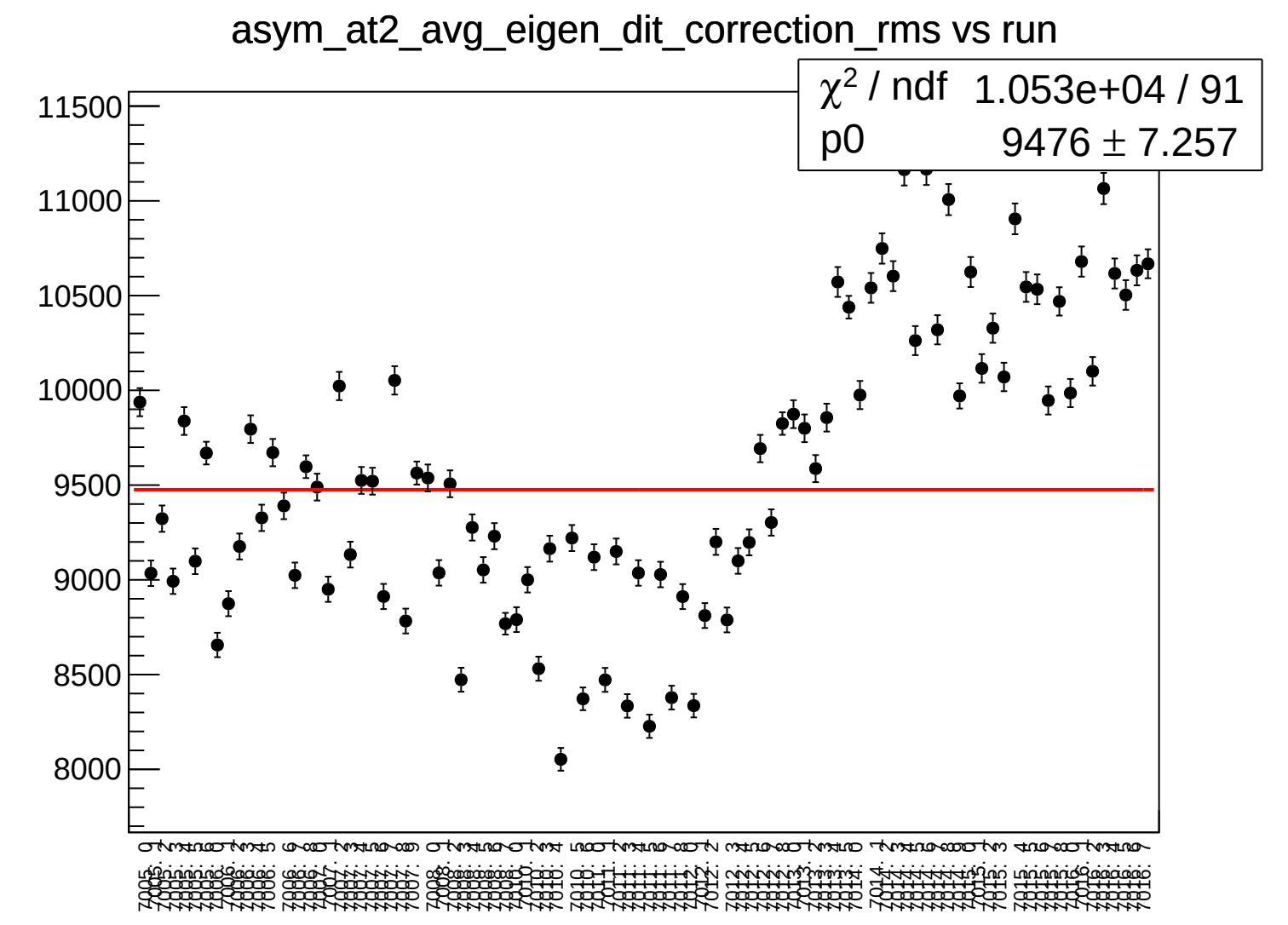

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.053e+04 / 91
p0 9476 ± 7.257
11500
11000
10500
10000
9500
9000
8500
8000

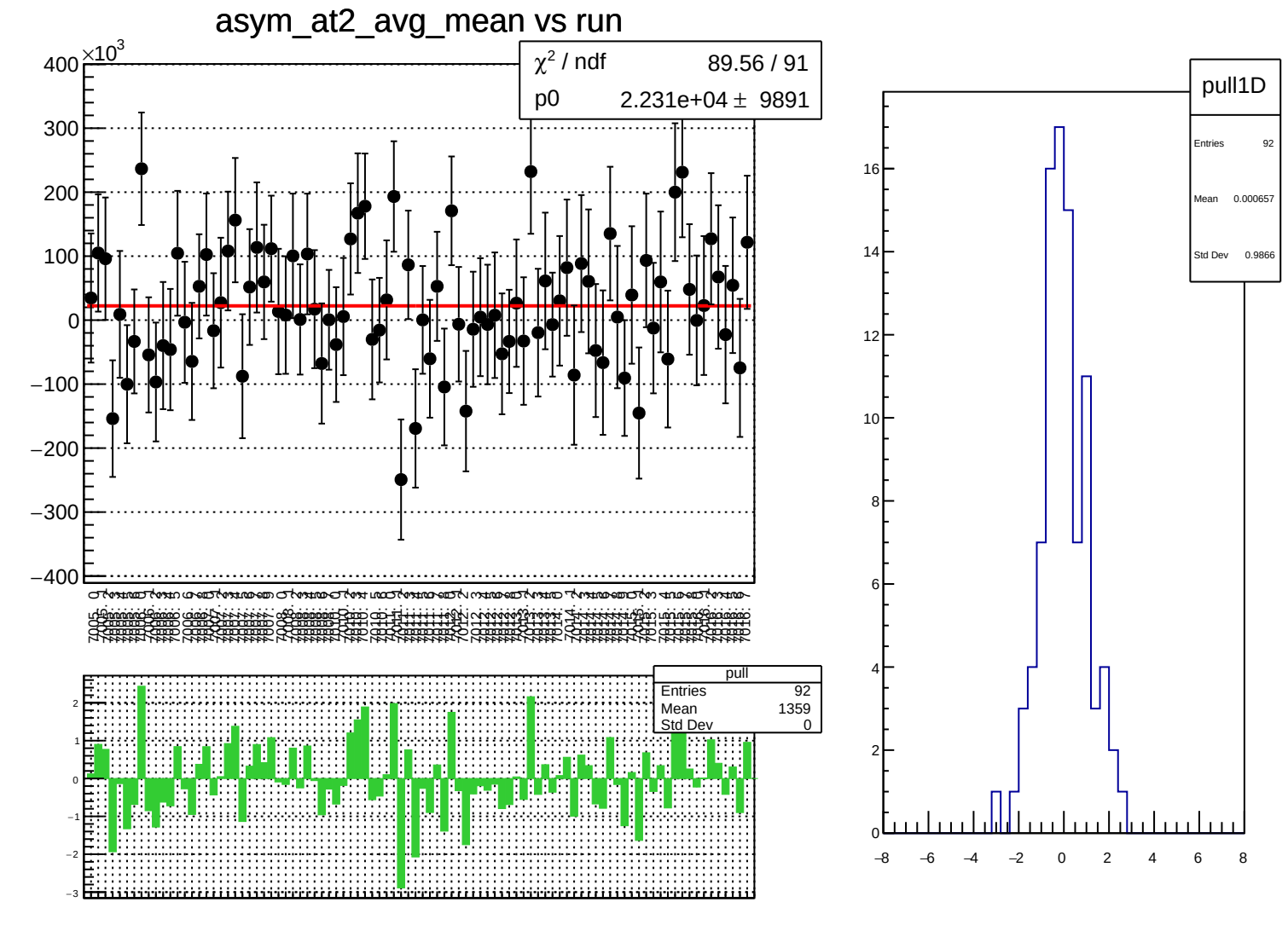

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 76.97 / 91
p0 −4641 ± 2058
pull
Entries 92
Mean −448.4
Std Dev 0
pull1D
Entries 92
Mean −0.004299
Std Dev 0.9146

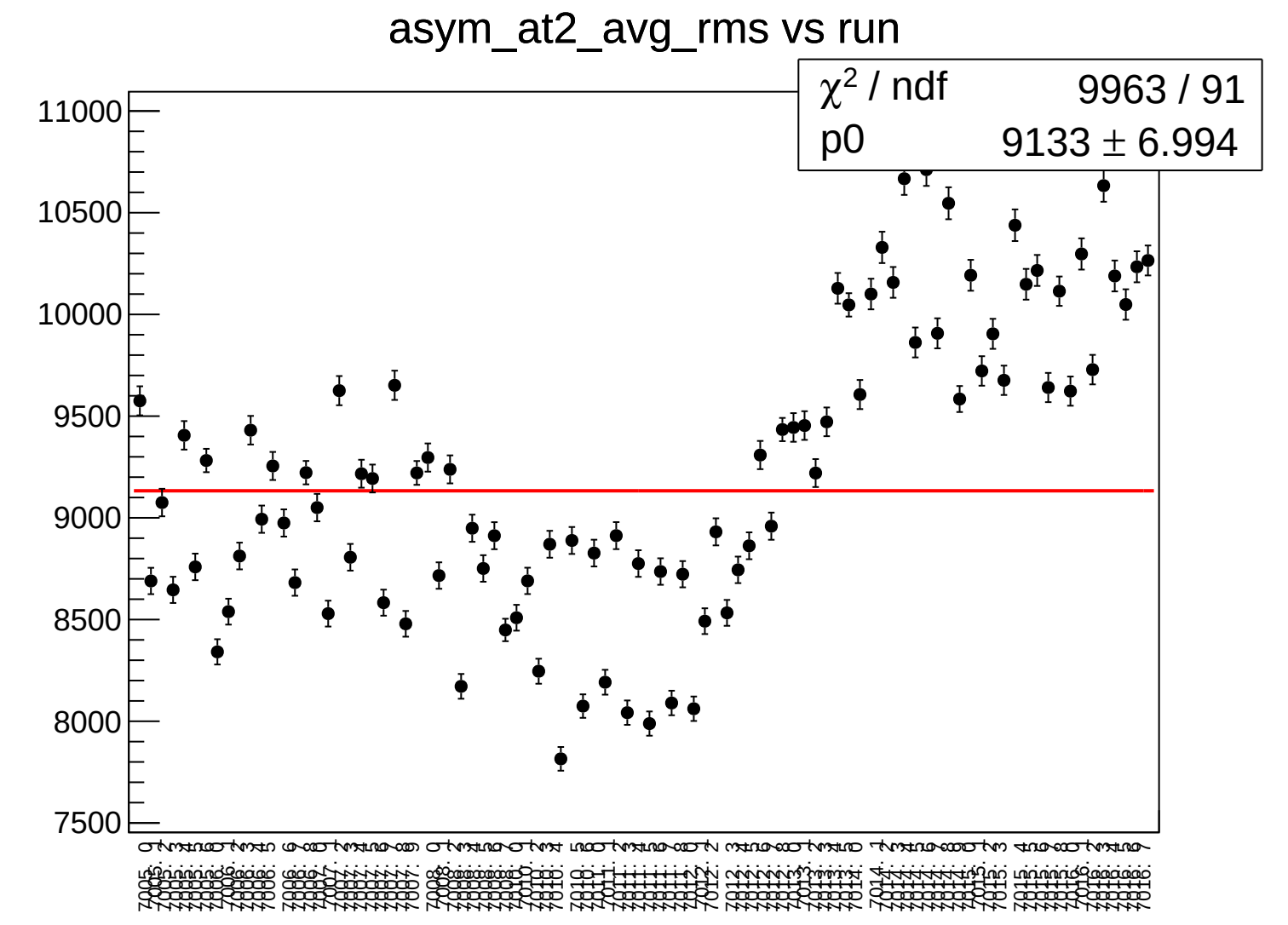

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 275 / 91
p0 1905 ± 1.455
2000
1980
1960
1940
1920
1900
1880
1860
1840
1820

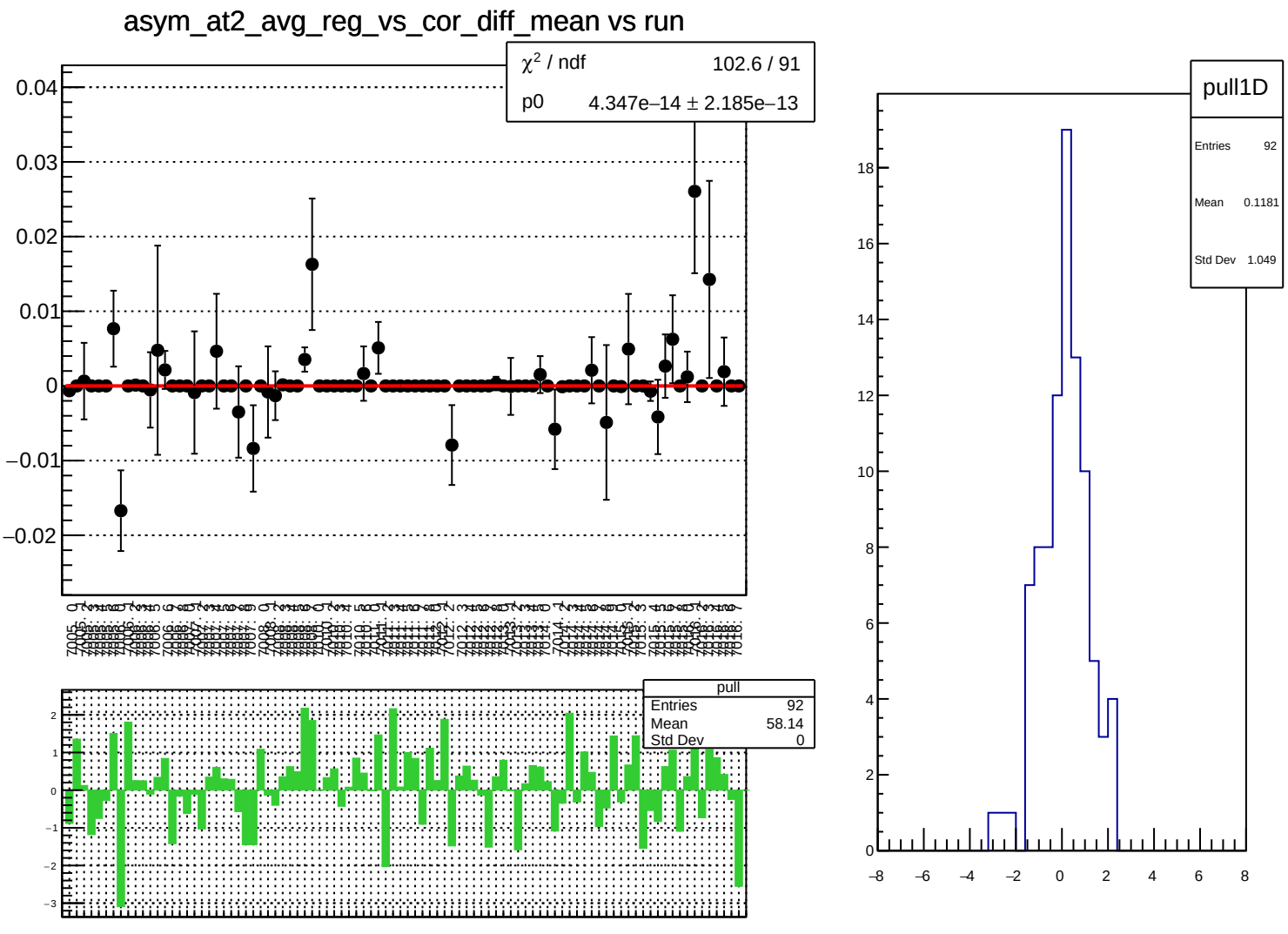

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.87 / 91
p0 −2.714e+04 ± 1.026e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 92
Mean 907.4
Std Dev 0
2
1
0
−1
−2

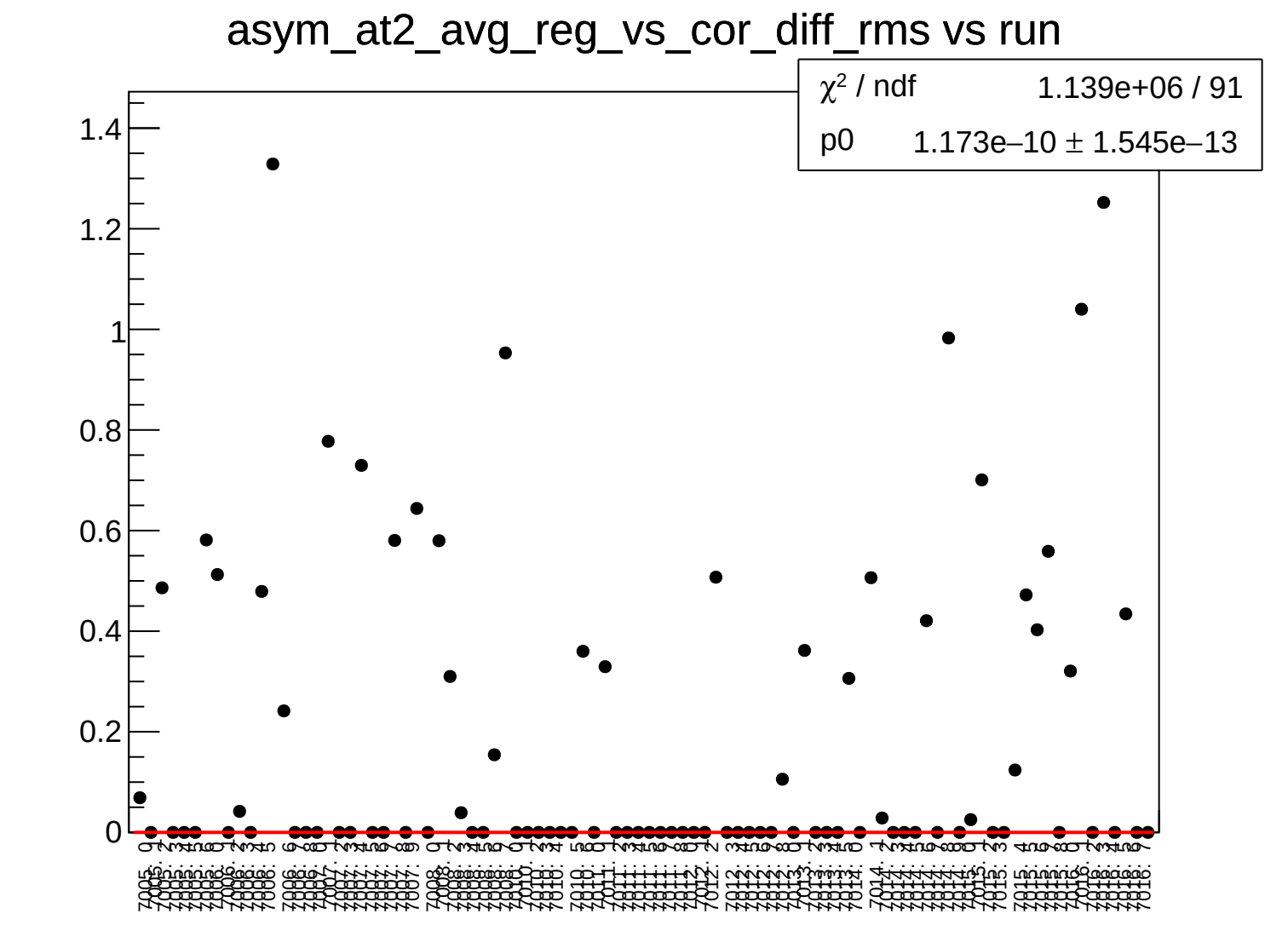

pull1D
Entries 92
Mean −0.0005553
Std Dev 0.9661
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

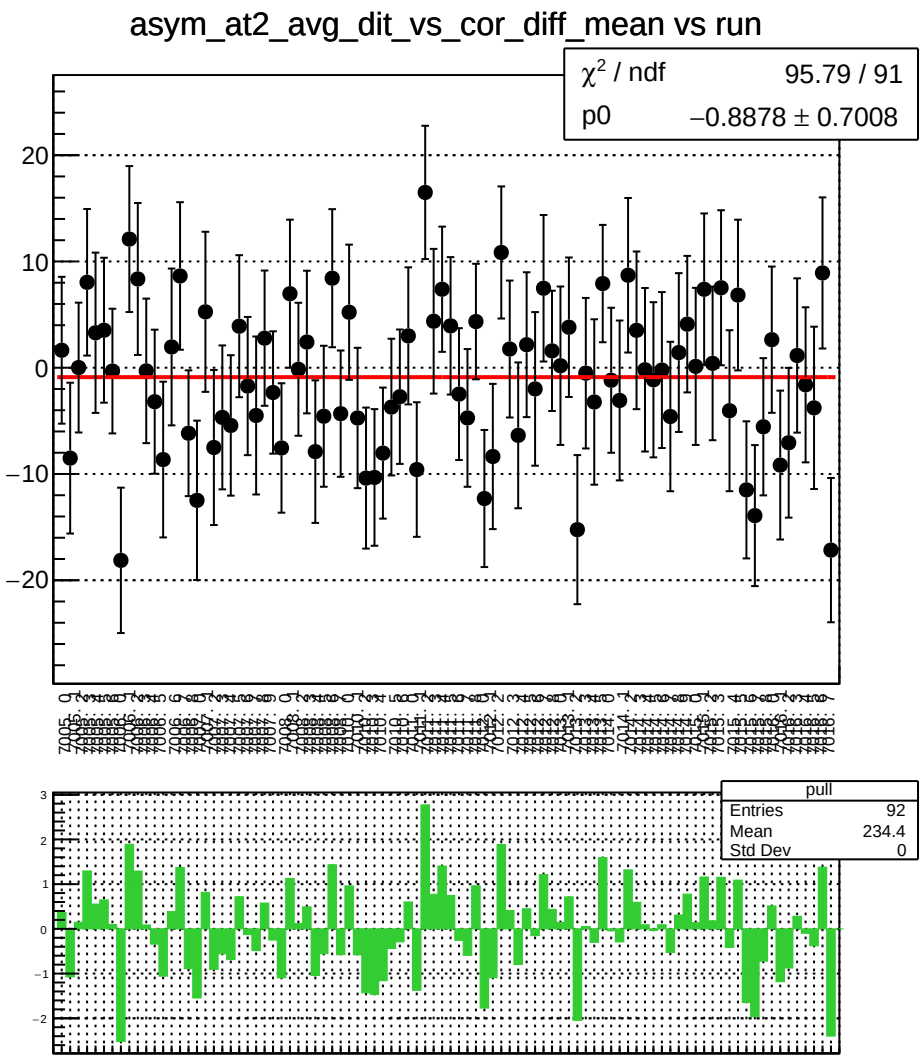

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.053e+04 / 91
p0 9476 ± 7.257
11500
11000
10500
10000
9500
9000
8500
8000

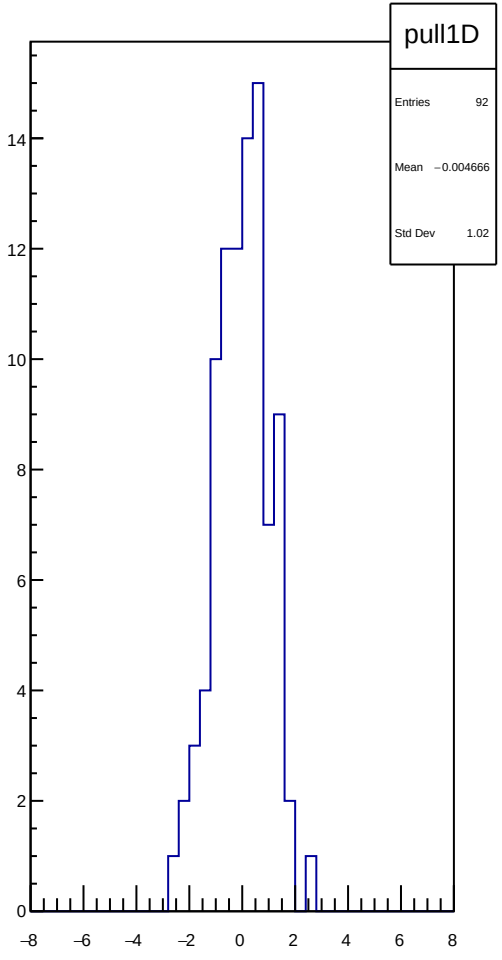

asym_at2_avg_mean vs run
×10^3
χ² / ndf 89.56 / 91
p0 2.231e+04 ± 9891
pull
Entries 92
Mean 1359
Std Dev 0
pull1D
Entries 92
Mean 0.000657
Std Dev 0.9866

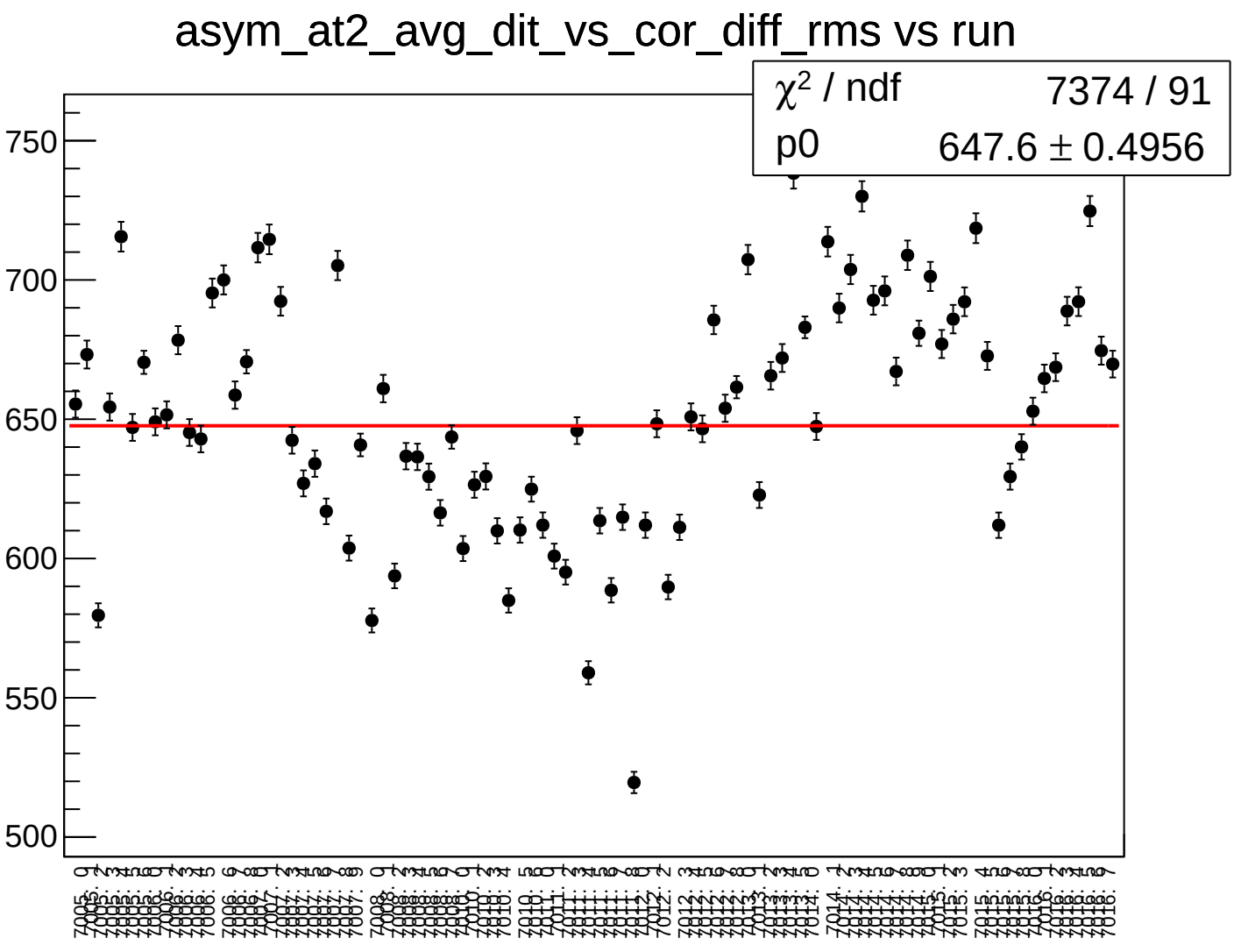

asym_at2_avg_rms vs run
$\chi^2$ / ndf 9963 / 91
p0 9133 ± 6.994
11000
10500
10000
9500
9000
8500
8000
7500

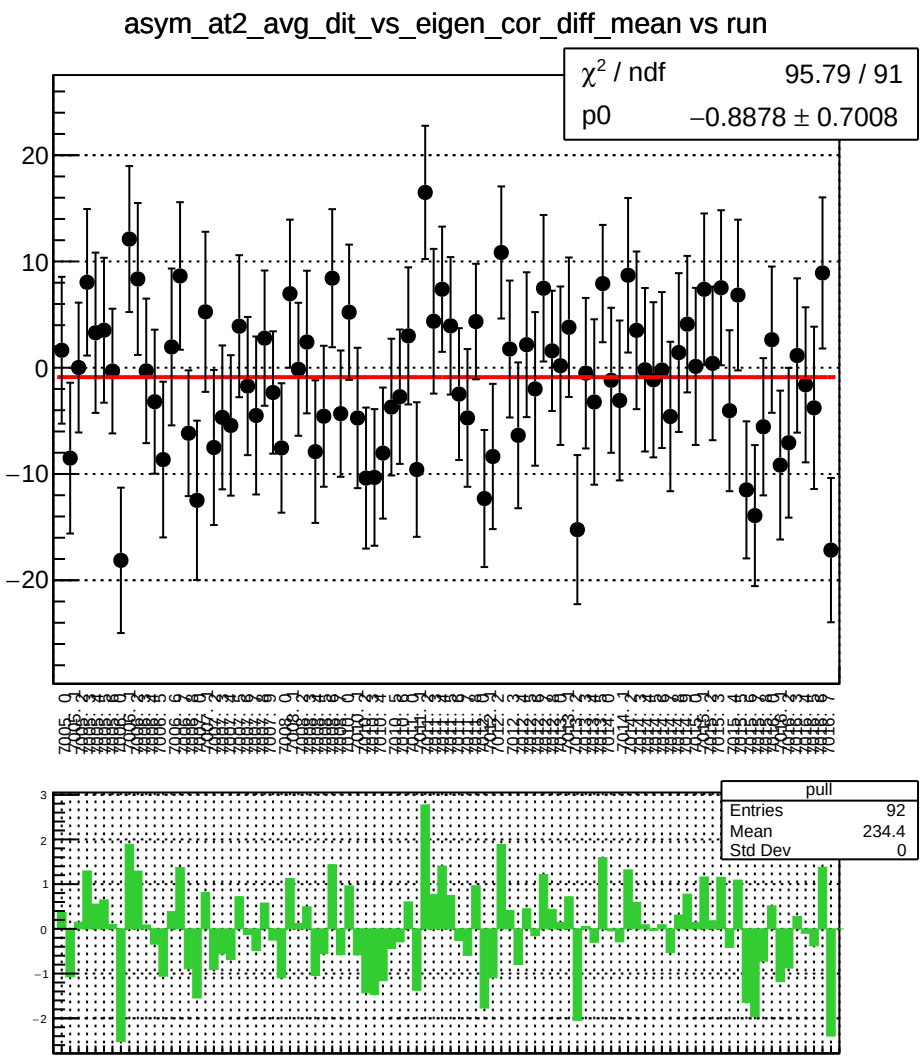

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 91
p0 4.347e−14 ± 2.185e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 58.14
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.1181
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

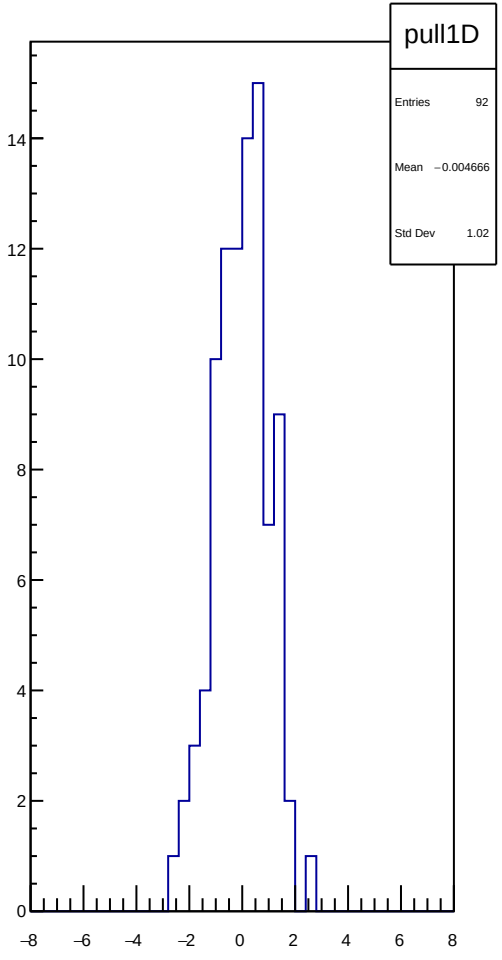

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 91
p0 1.173e−10 ± 1.545e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

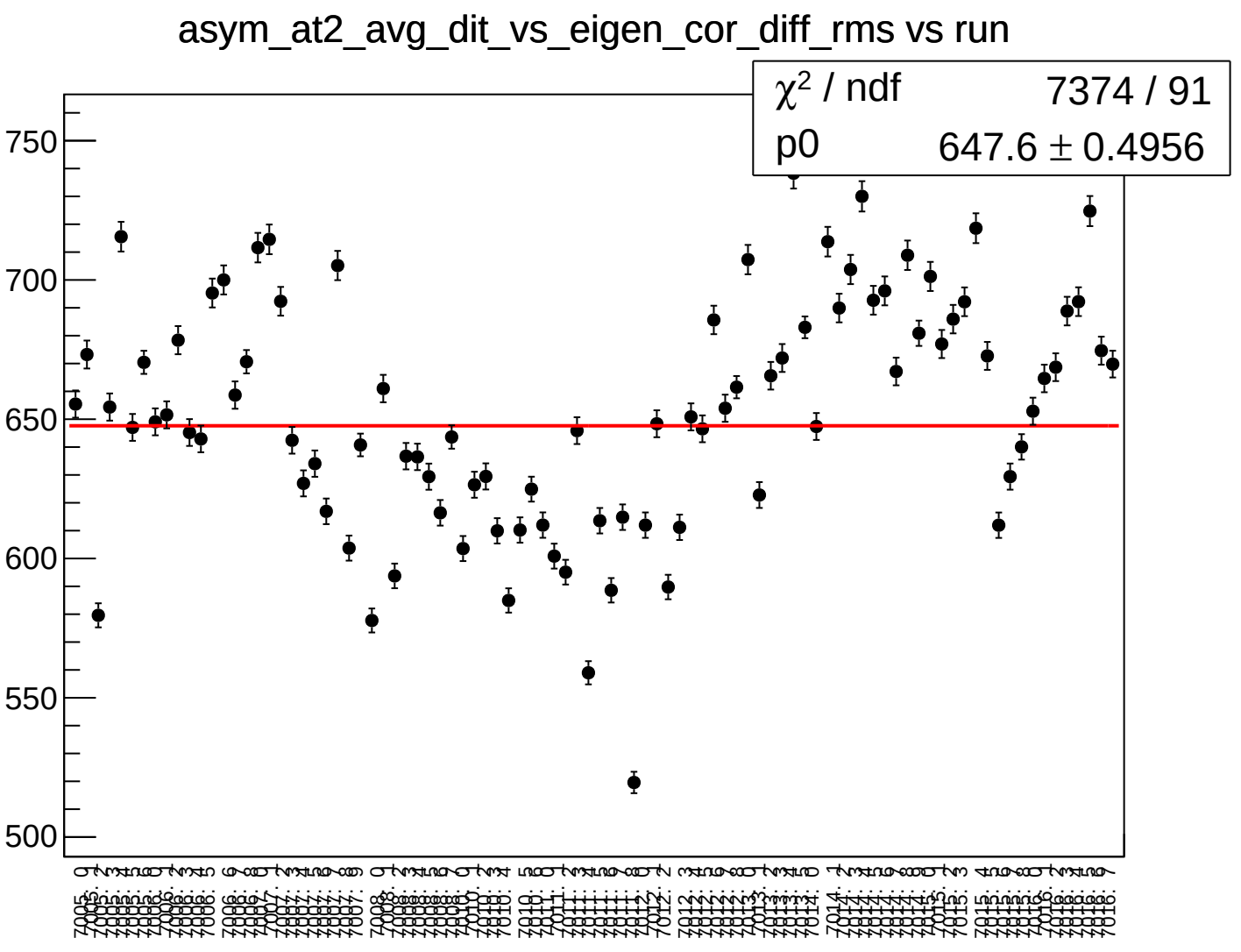

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.79 / 91
p0 −0.8878 ± 0.7008
20
10
0
−10
−20
pull
Entries 92
Mean 234.4
Std Dev 0
3
2
1
0
−1
−2

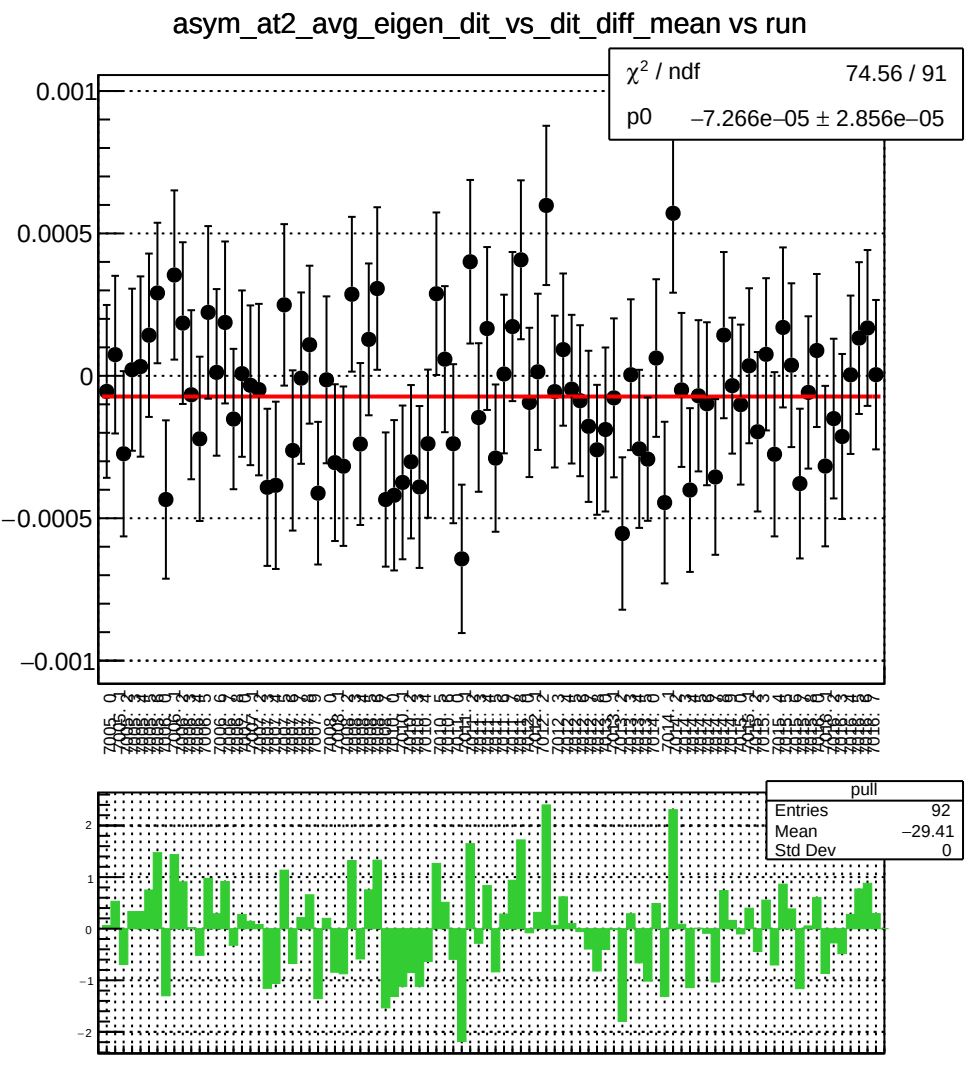

pull1D
Entries 92
Mean −0.004666
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

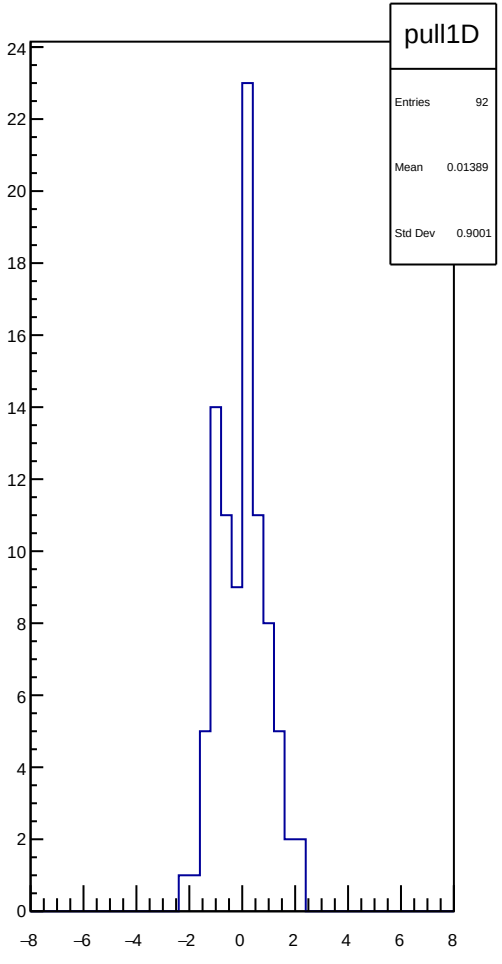

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7374 / 91
p0 647.6 ± 0.4956
750
700
650
600
550
500

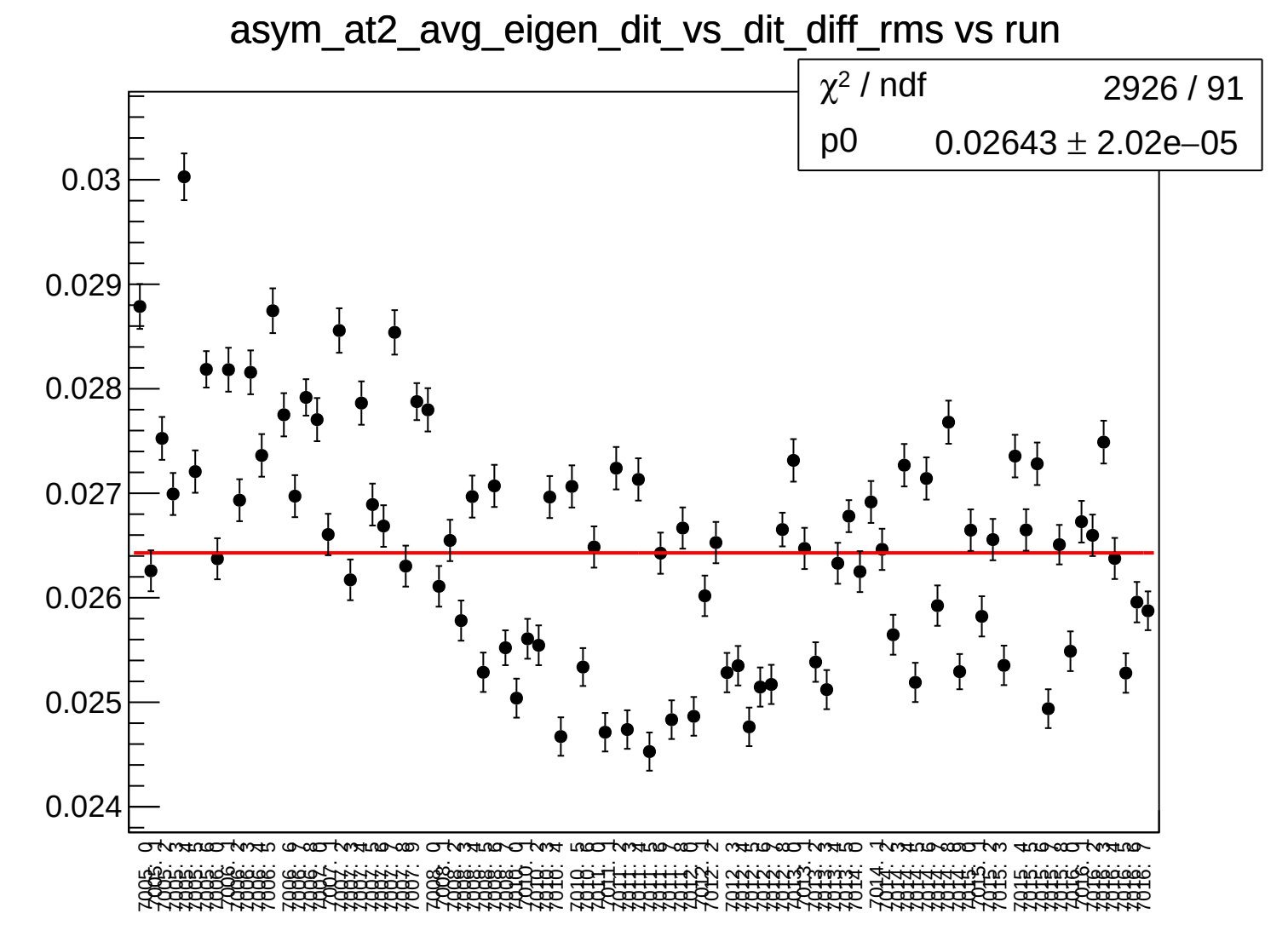

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.79 / 91
p0 −0.8878 ± 0.7008
20
10
0
−10
−20
pull
Entries 92
Mean 234.4
Std Dev 0
3
2
1
0
−1
−2

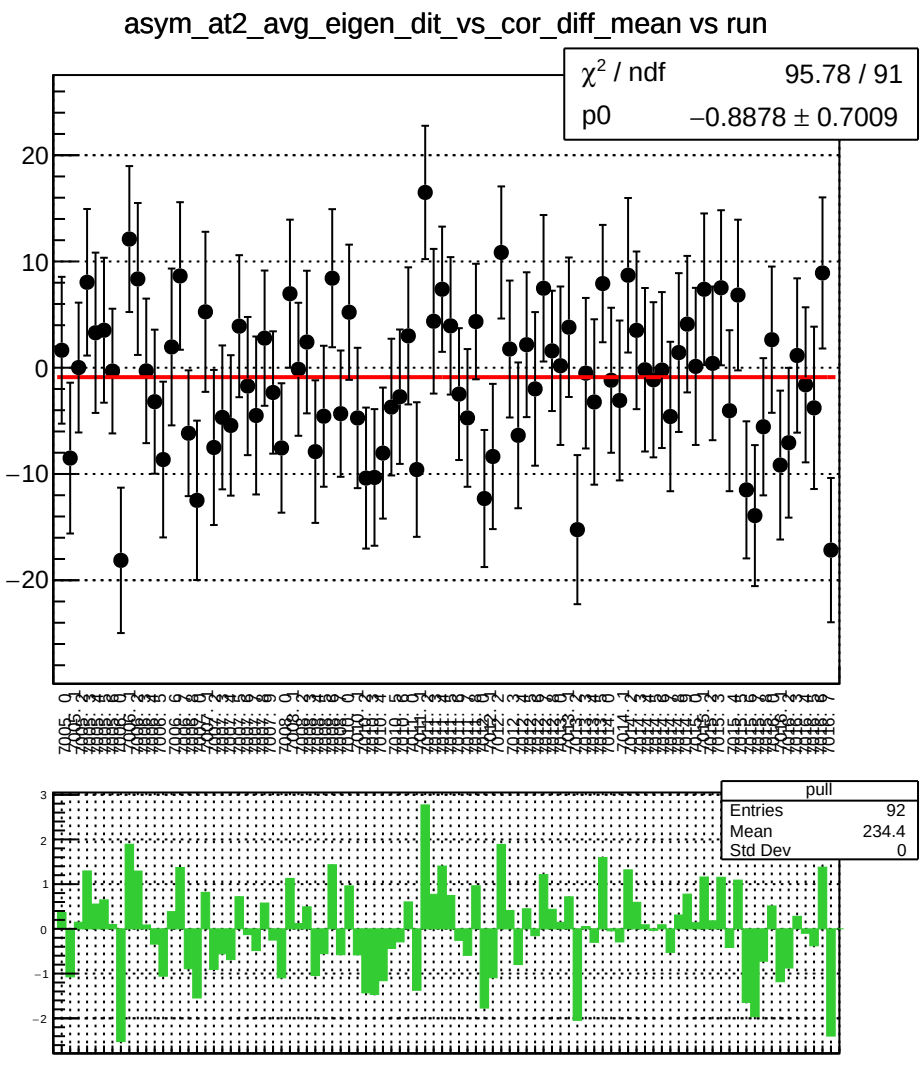

pull1D
Entries 92
Mean −0.004666
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

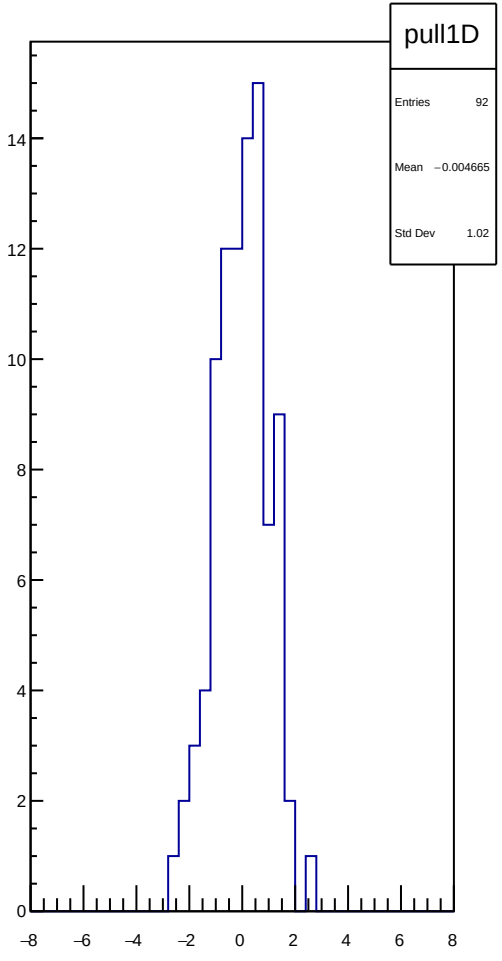

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7374 / 91
p0 647.6 ± 0.4956
750
700
650
600
550
500

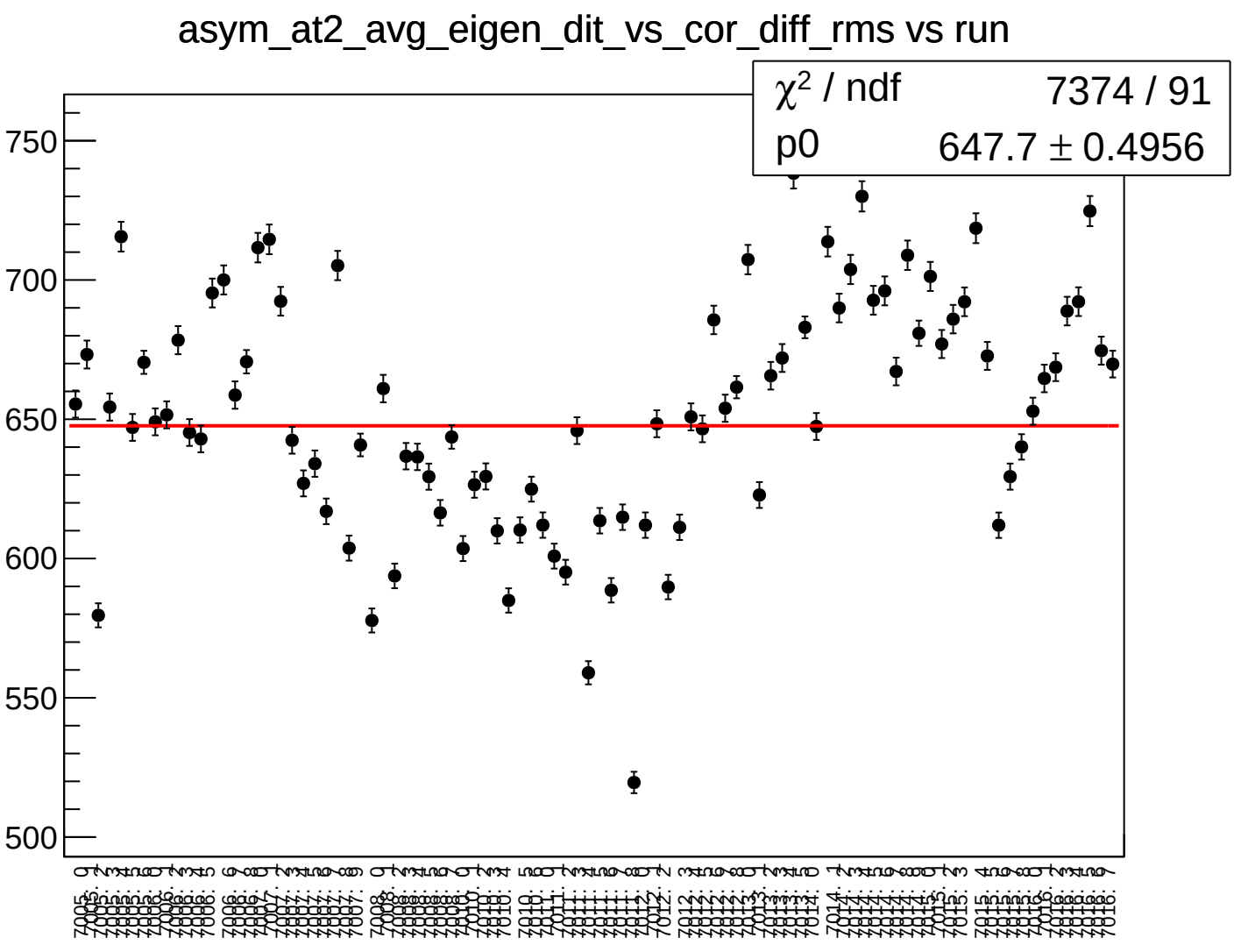

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 74.56 / 91
p0 −7.266e−05 ± 2.856e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −29.41
Std Dev 0
2
1
0
−1
−2

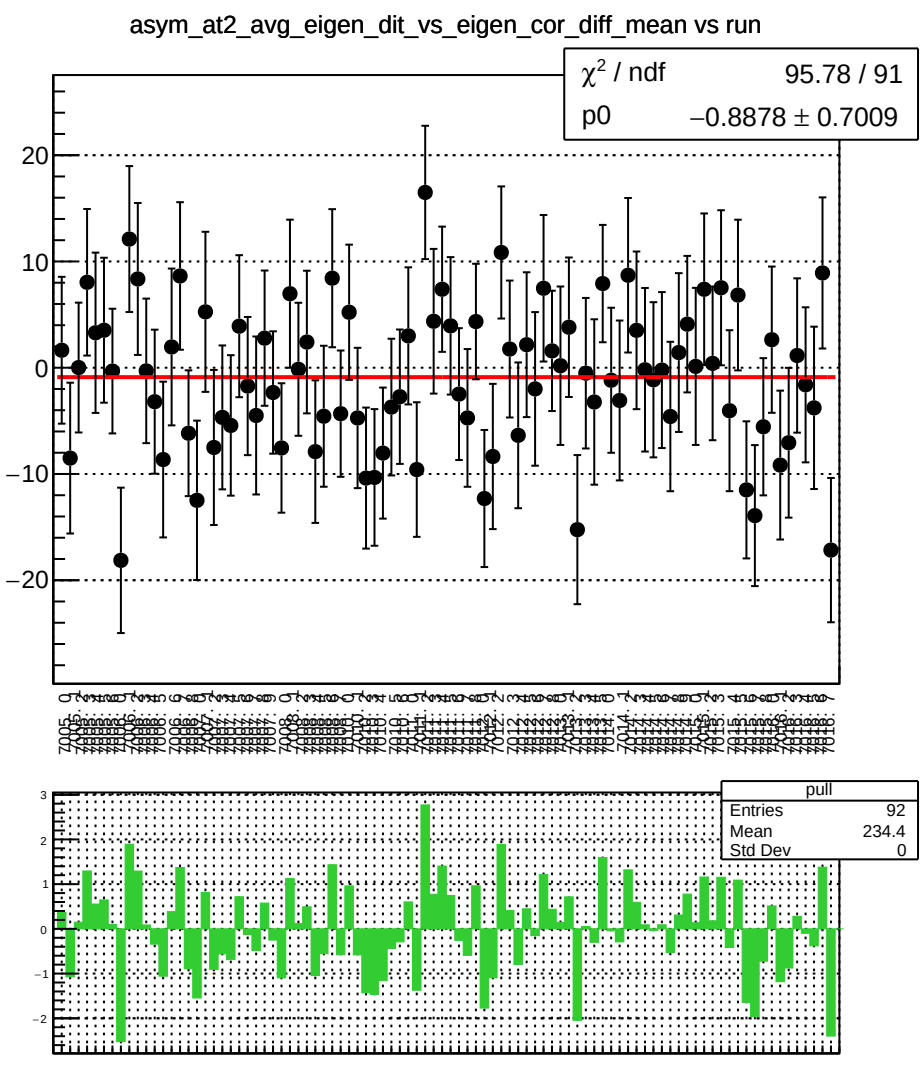

pull1D
Entries 92
Mean 0.01389
Std Dev 0.9001
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

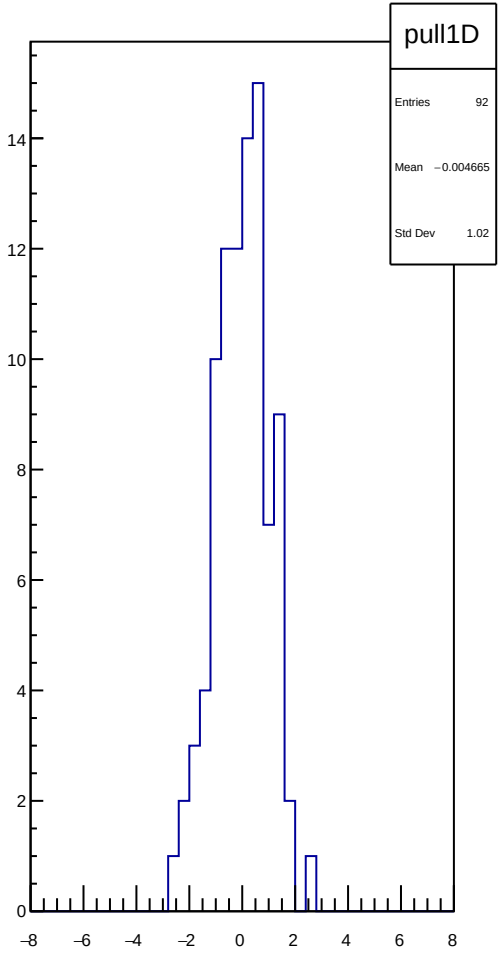

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2926 / 91
p0 0.02643 ± 2.02e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024

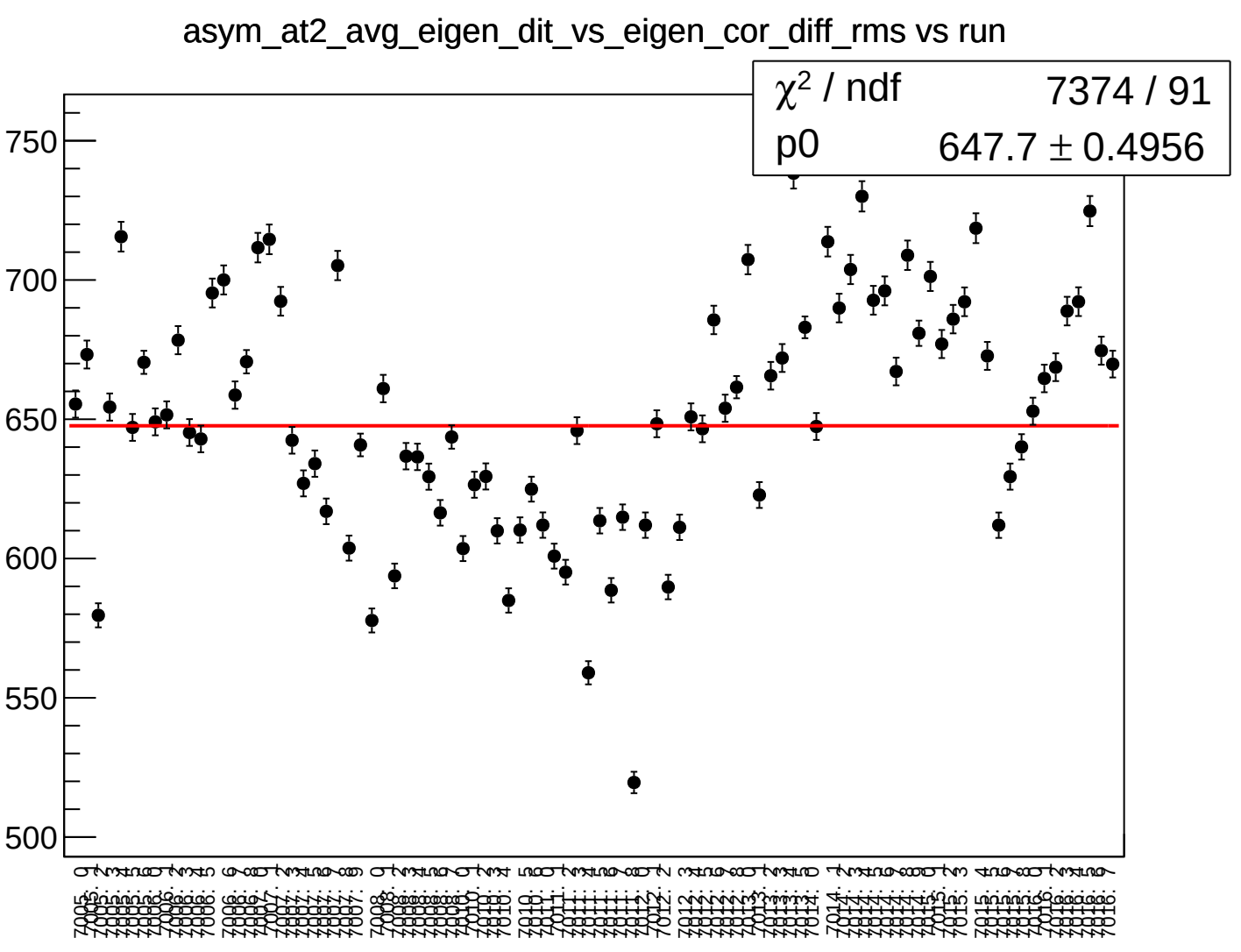

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.78 / 91
p0 −0.8878 ± 0.7009
pull
Entries 92
Mean 234.4
Std Dev 0

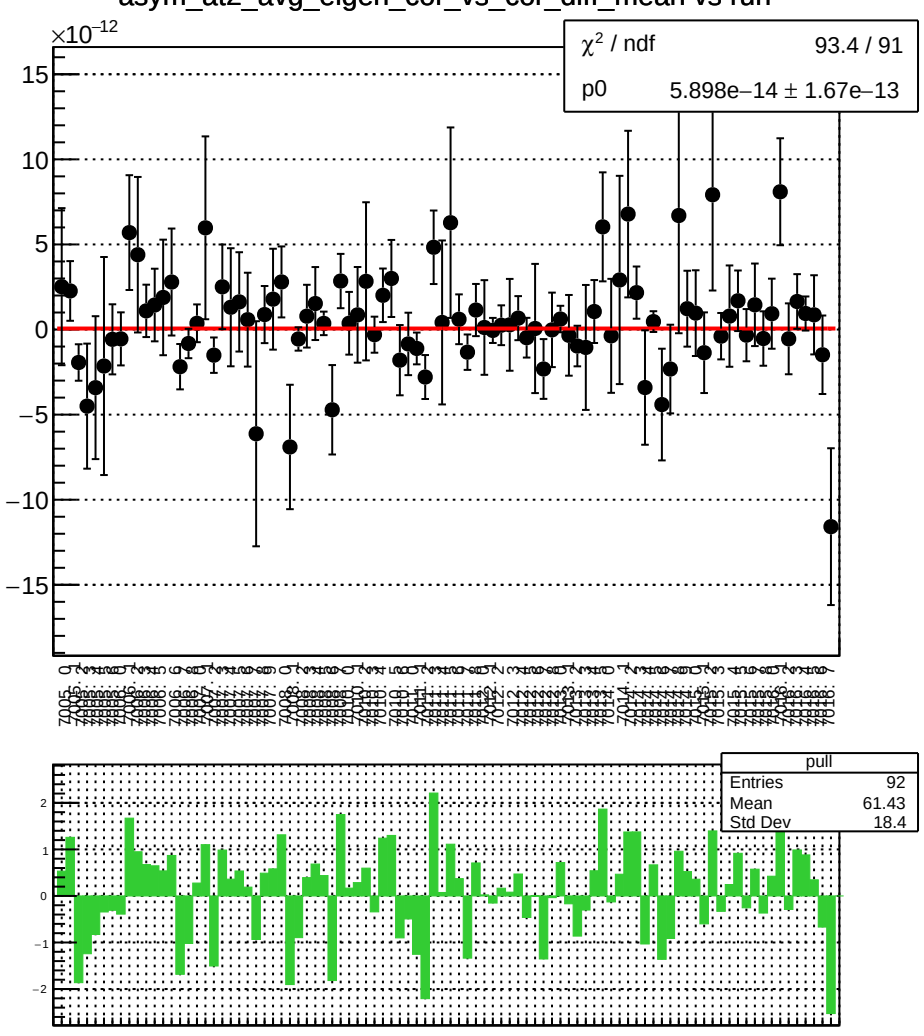

pull1D
Entries 92
Mean −0.004665
Std Dev 1.02

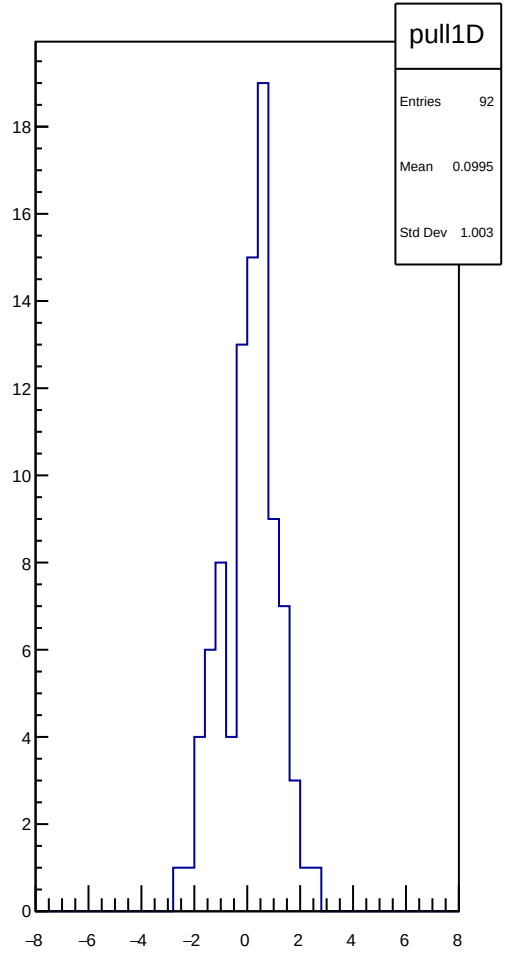

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7374 / 91
p0 647.7 ± 0.4956
750
700
650
600
550
500

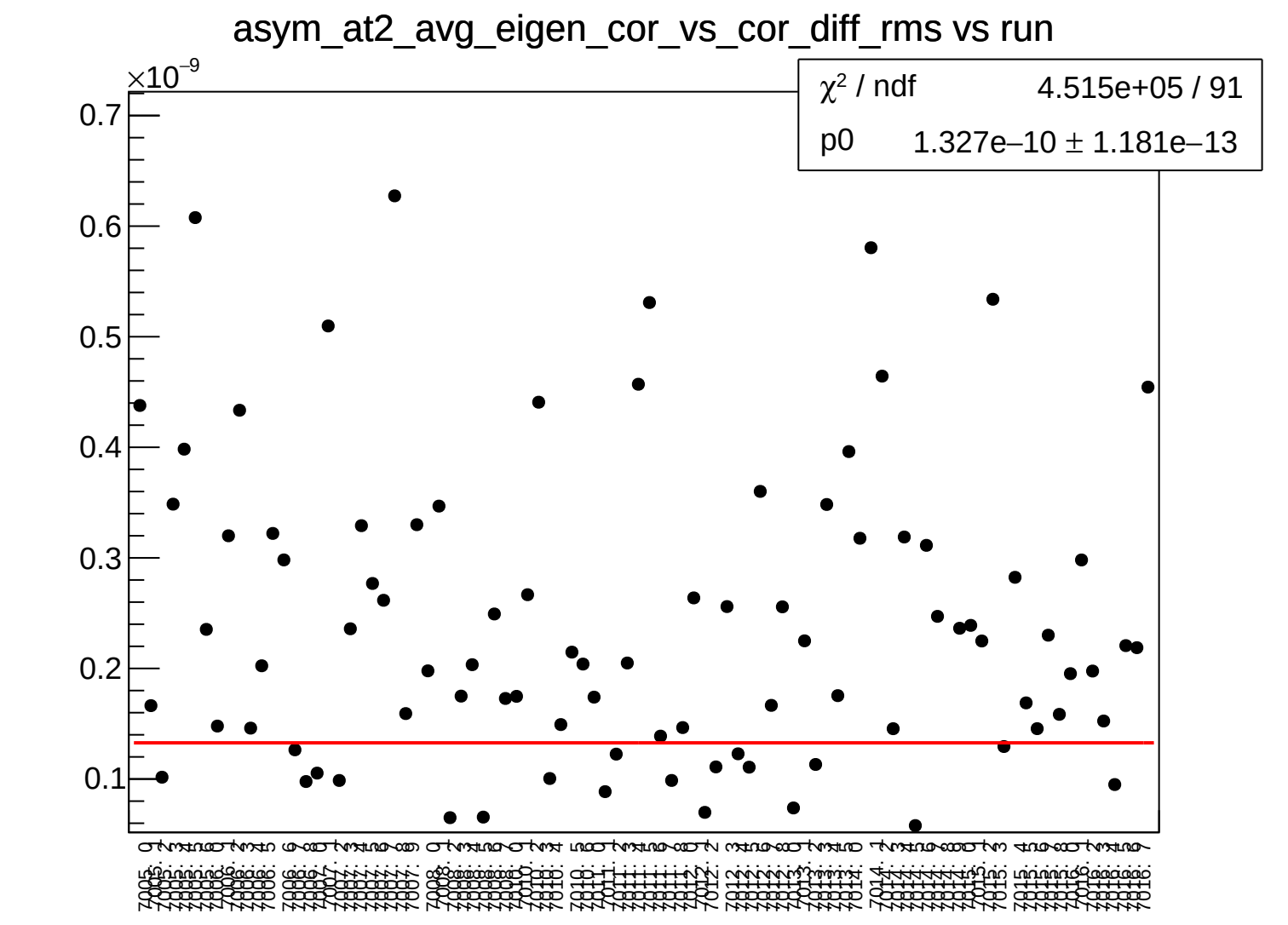

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.78 / 91
p0 −0.8878 ± 0.7009
20
10
0
−10
−20
pull
Entries 92
Mean 234.4
Std Dev 0
3
2
1
0
−1
−2

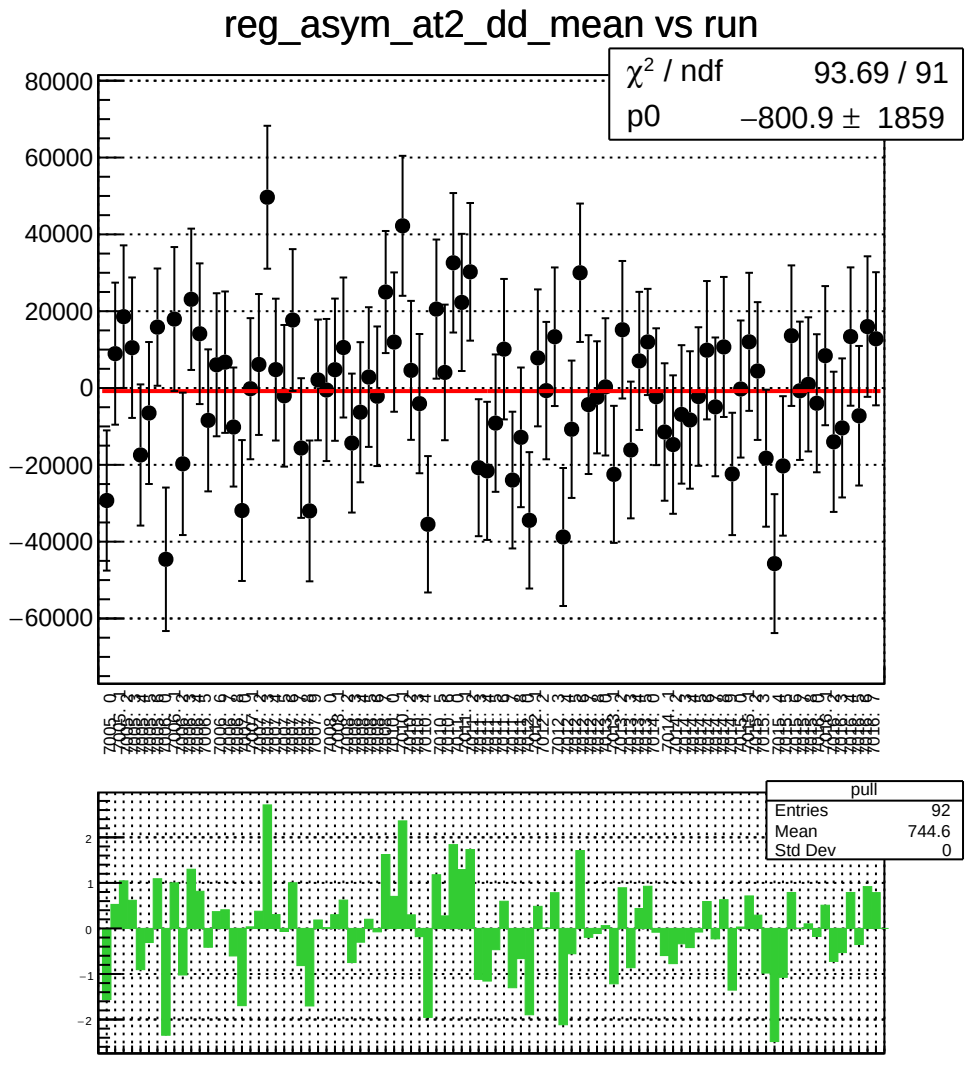

pull1D
Entries 92
Mean −0.004665
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

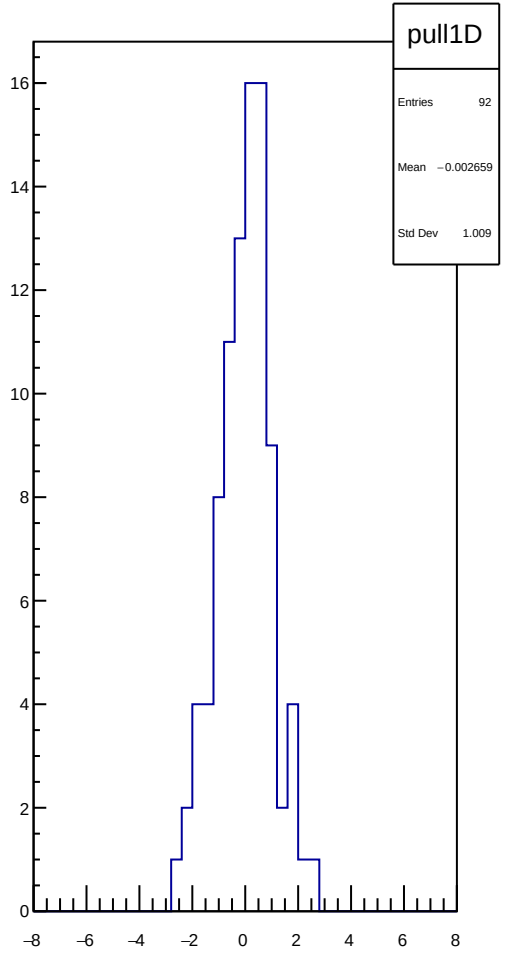

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7374 / 91
p0 647.7 ± 0.4956
750
700
650
600
550
500

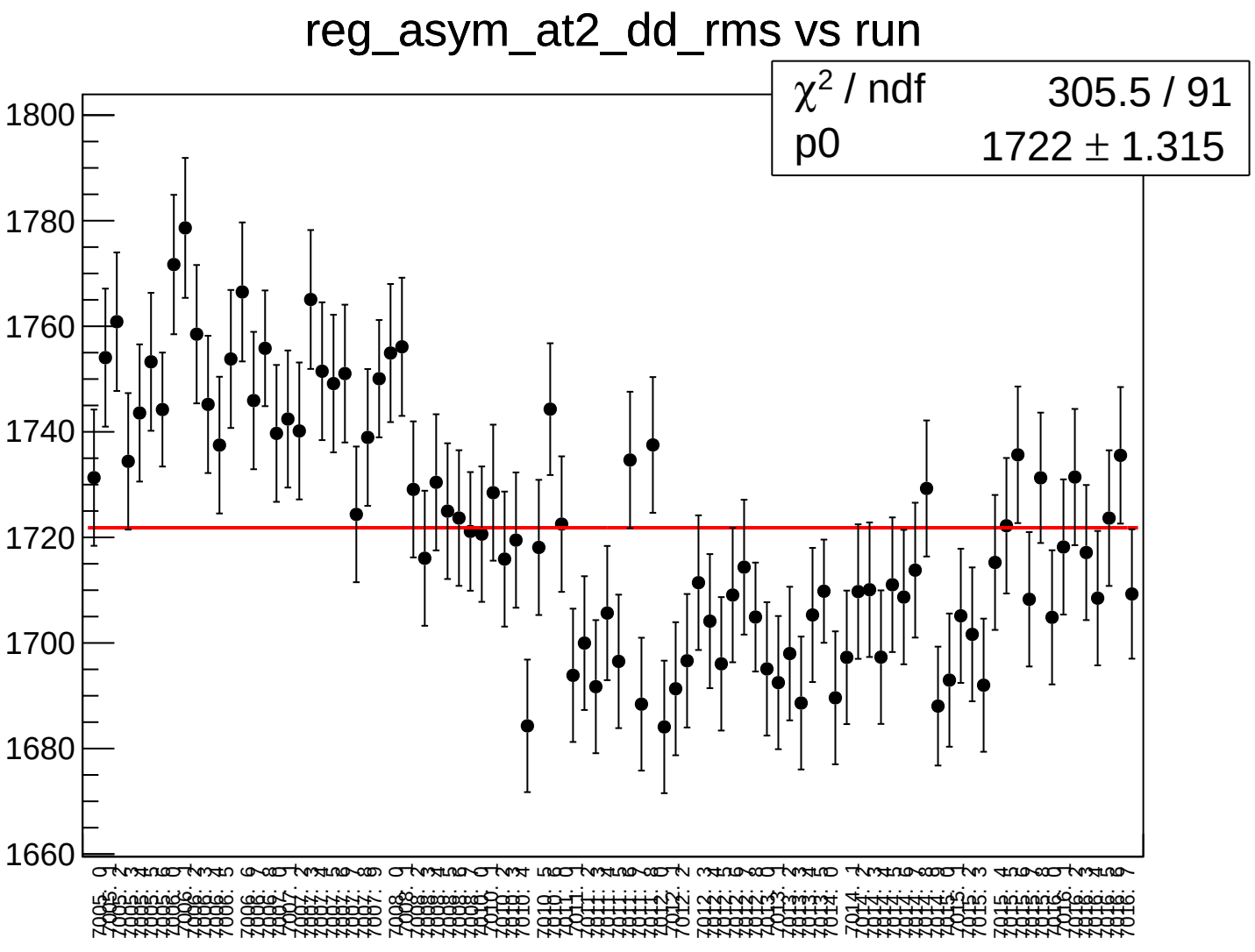

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.4 / 91
p0 5.898e−14 ± 1.67e−13
pull
Entries 92
Mean 61.43
Std Dev 18.4

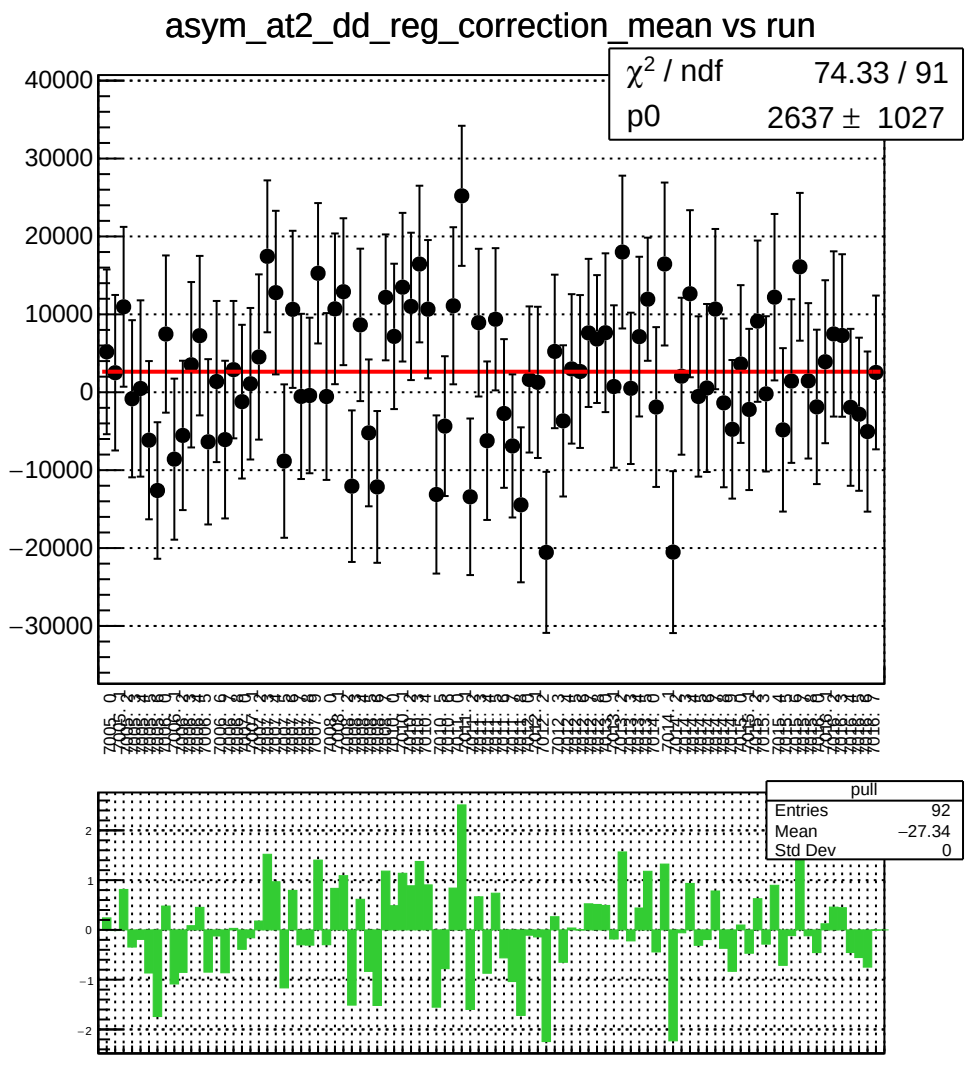

pull1D
Entries 92
Mean 0.0995
Std Dev 1.003

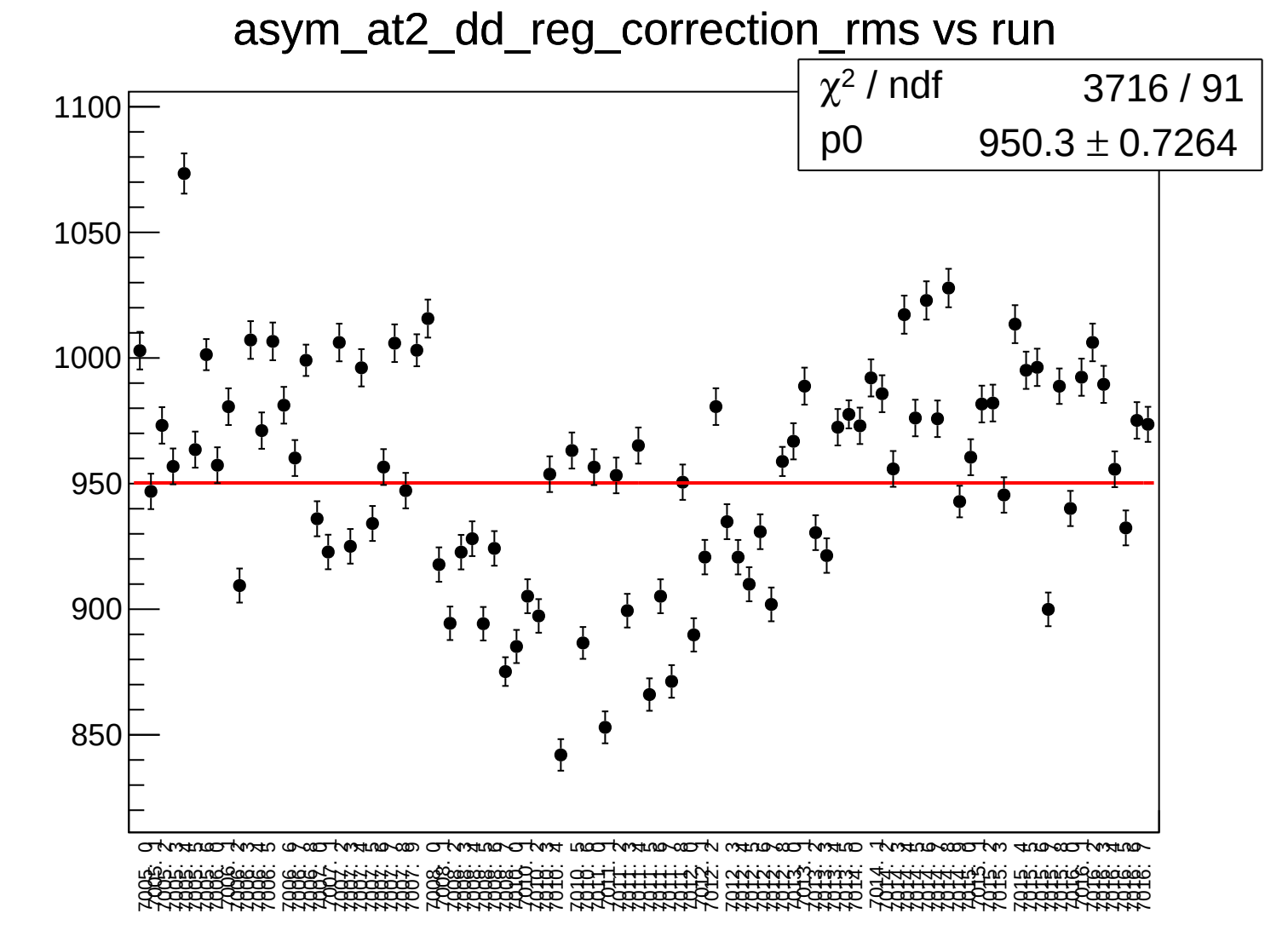

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.515e+05 / 91
p0 1.327e−10 ± 1.181e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

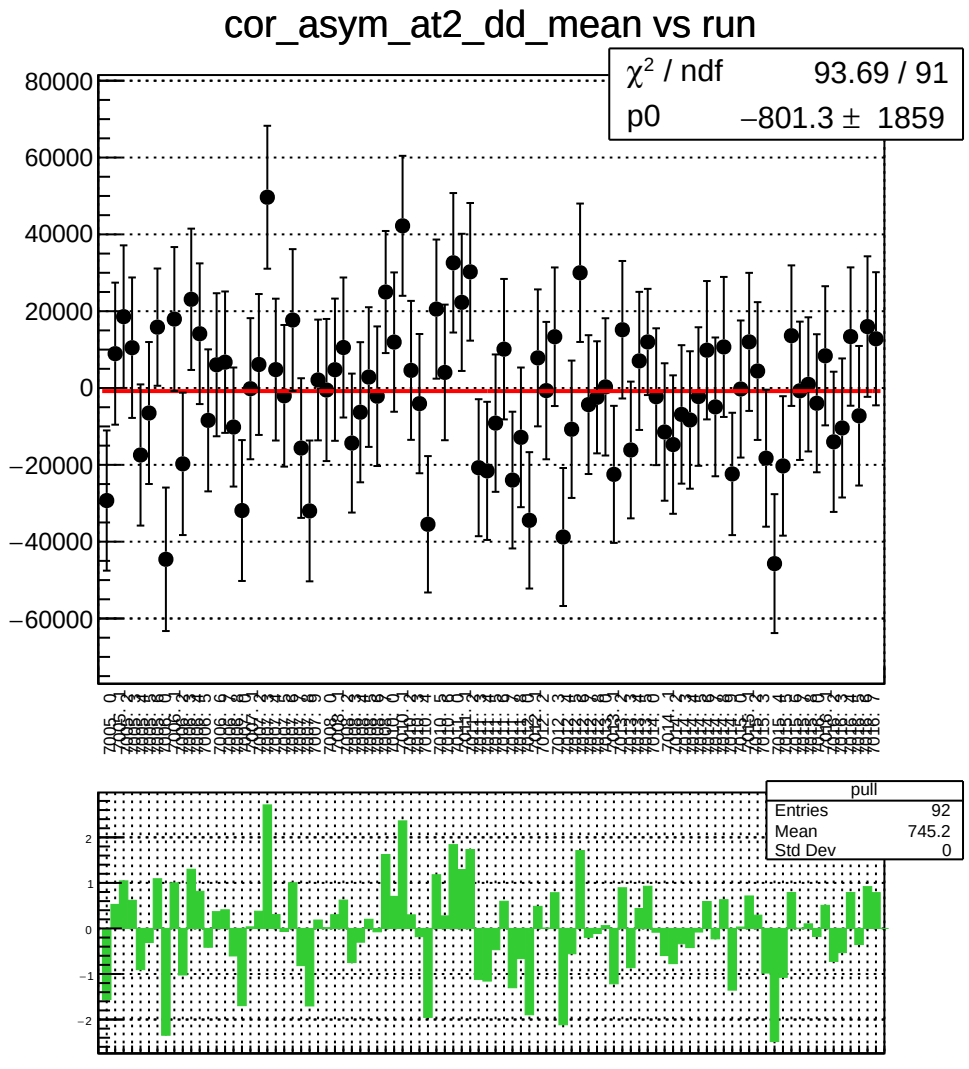

reg_asym_at2_dd_mean vs run
χ² / ndf 93.69 / 91
p0 −800.9 ± 1859
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 744.6
Std Dev 0
2
1
0
−1
−2

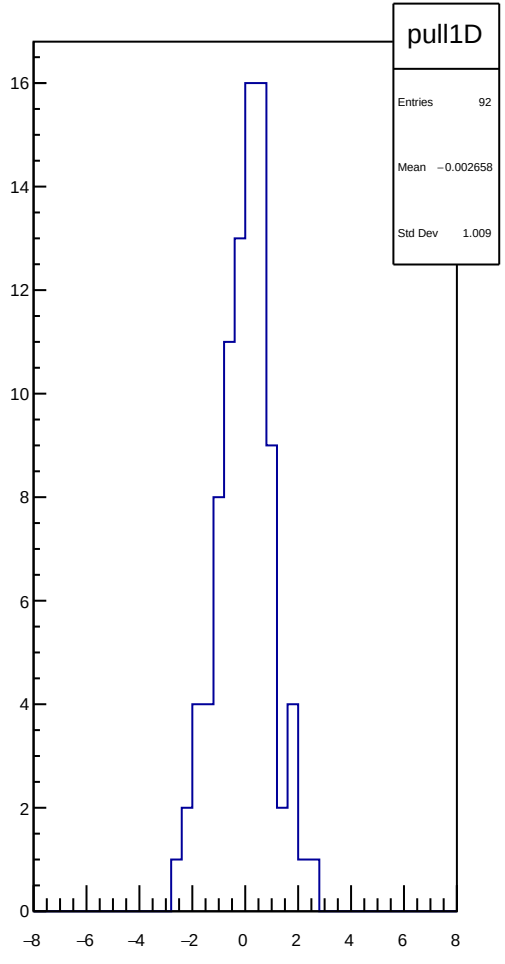

pull1D
Entries 92
Mean −0.002659
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

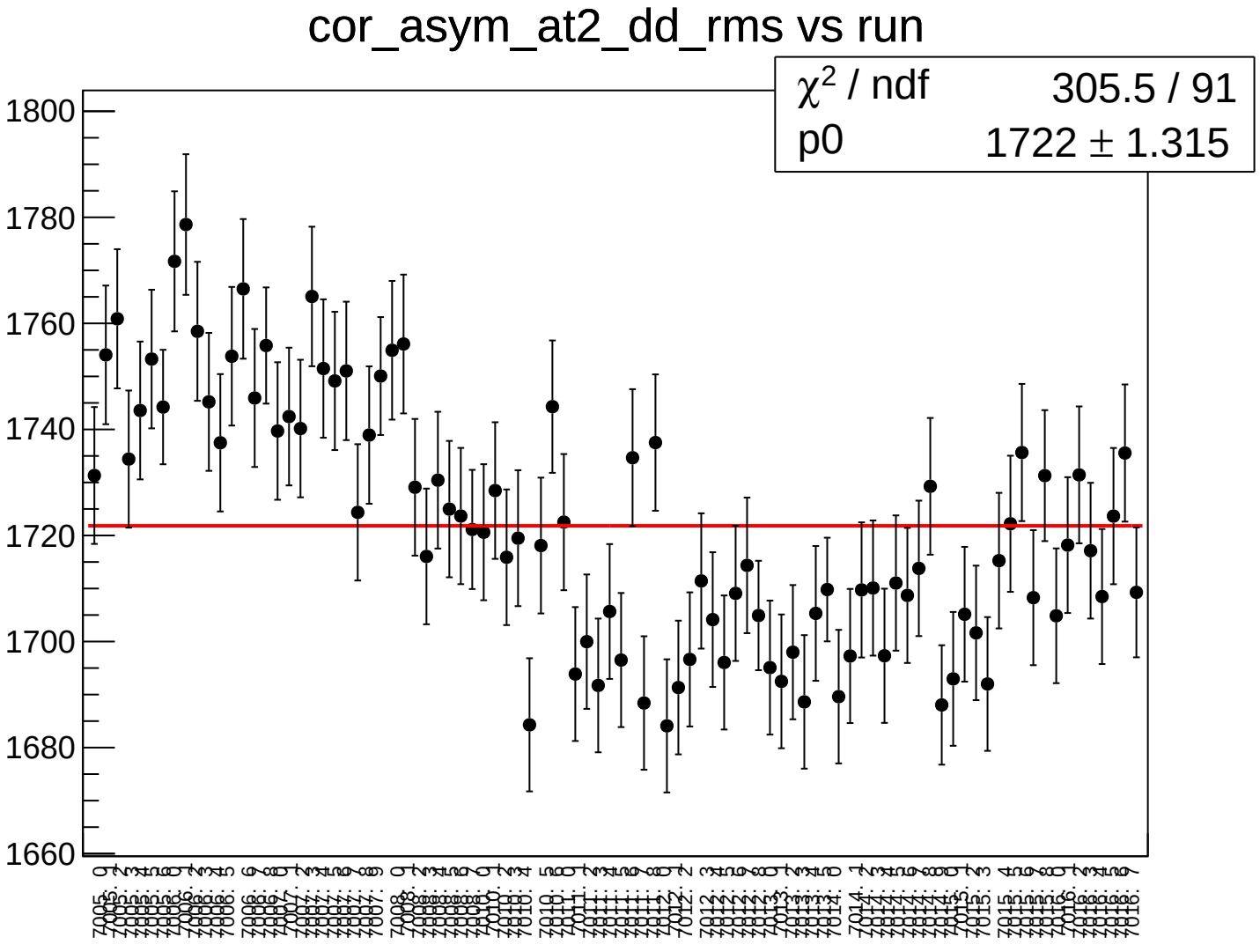

reg_asym_at2_dd_rms vs run
χ² / ndf 305.5 / 91
p0 1722 ± 1.315
1800
1780
1760
1740
1720
1700
1680
1660

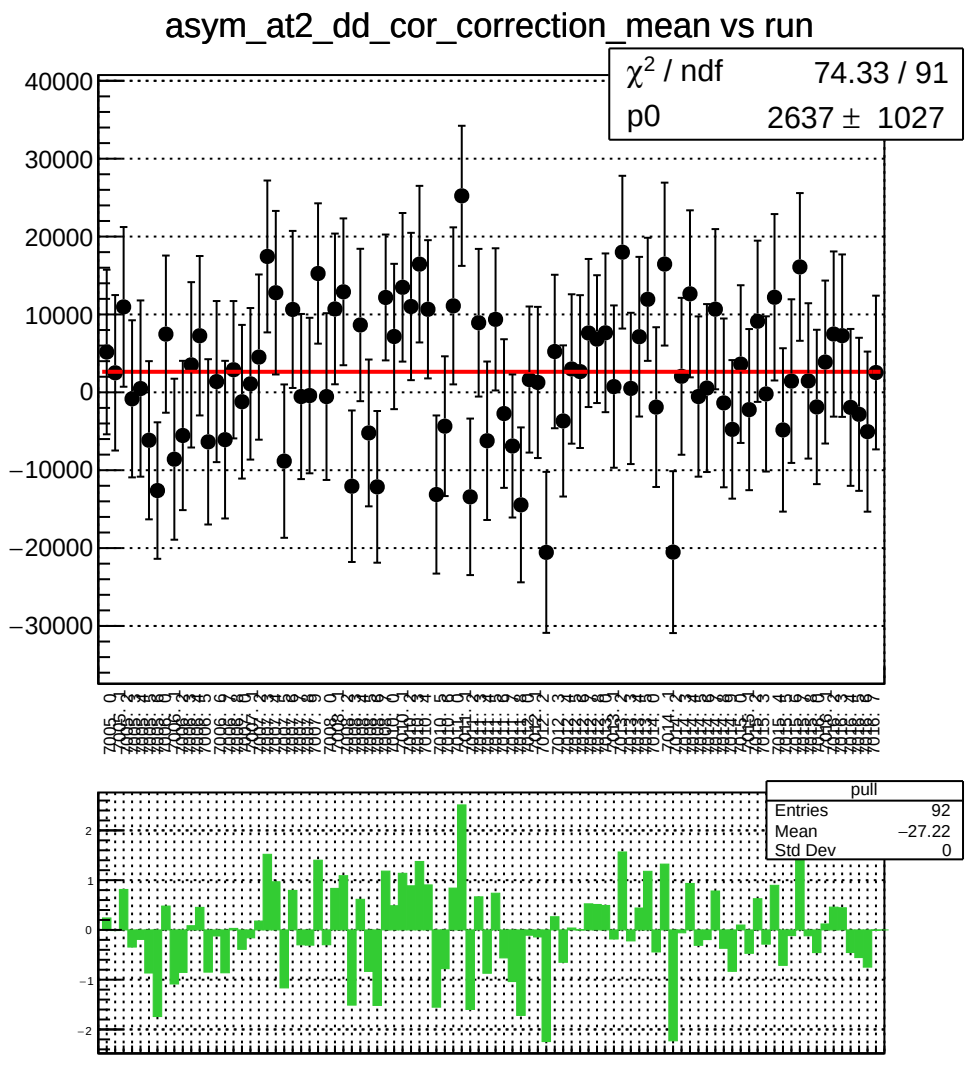

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 74.33 / 91
p0 2637 ± 1027
pull
Entries 92
Mean −27.34
Std Dev 0
pull1D
Entries 92
Mean −0.0117
Std Dev 0.8988

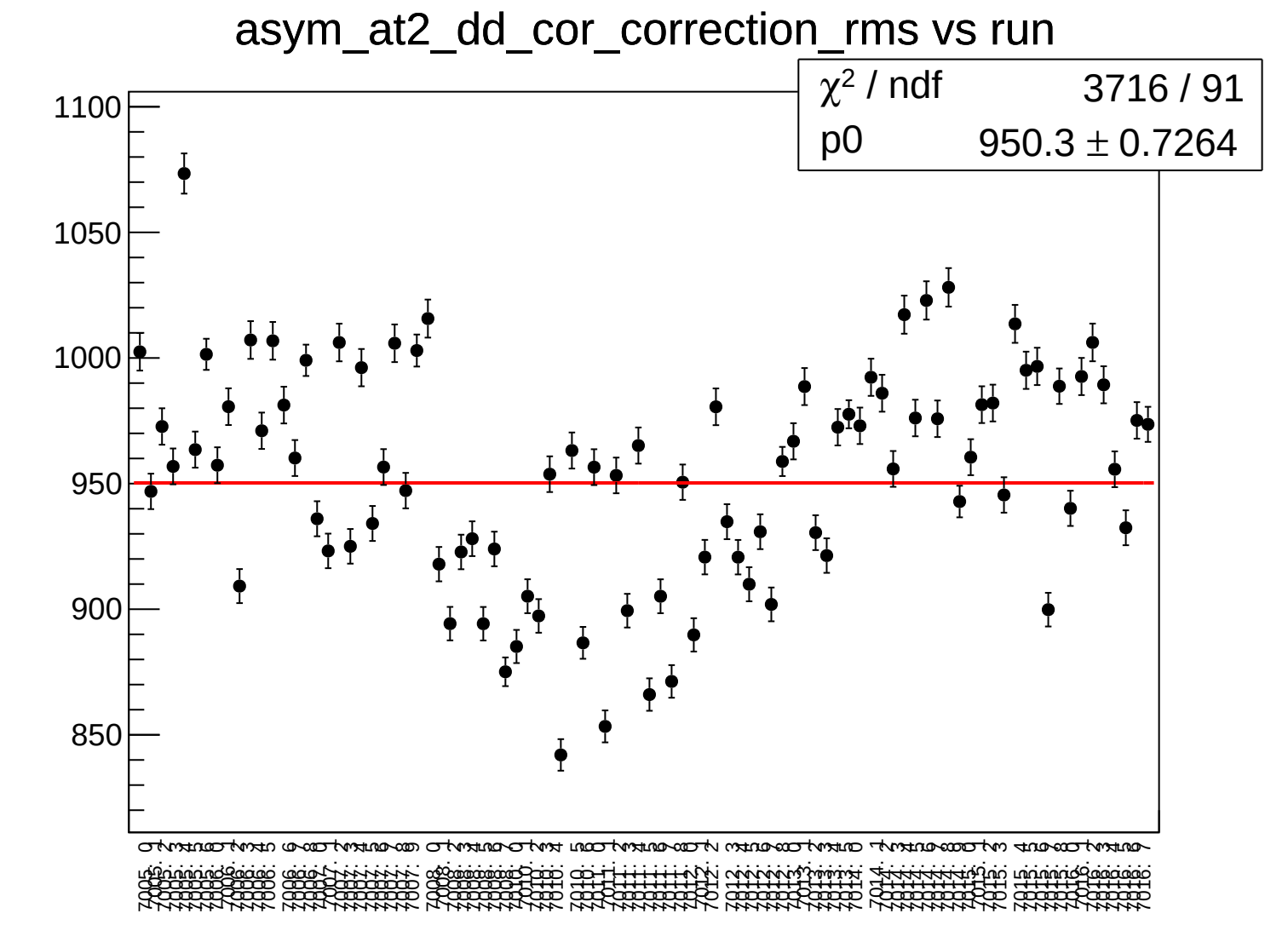

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 3716 / 91
p0 950.3 ± 0.7264
1100
1050
1000
950
900
850

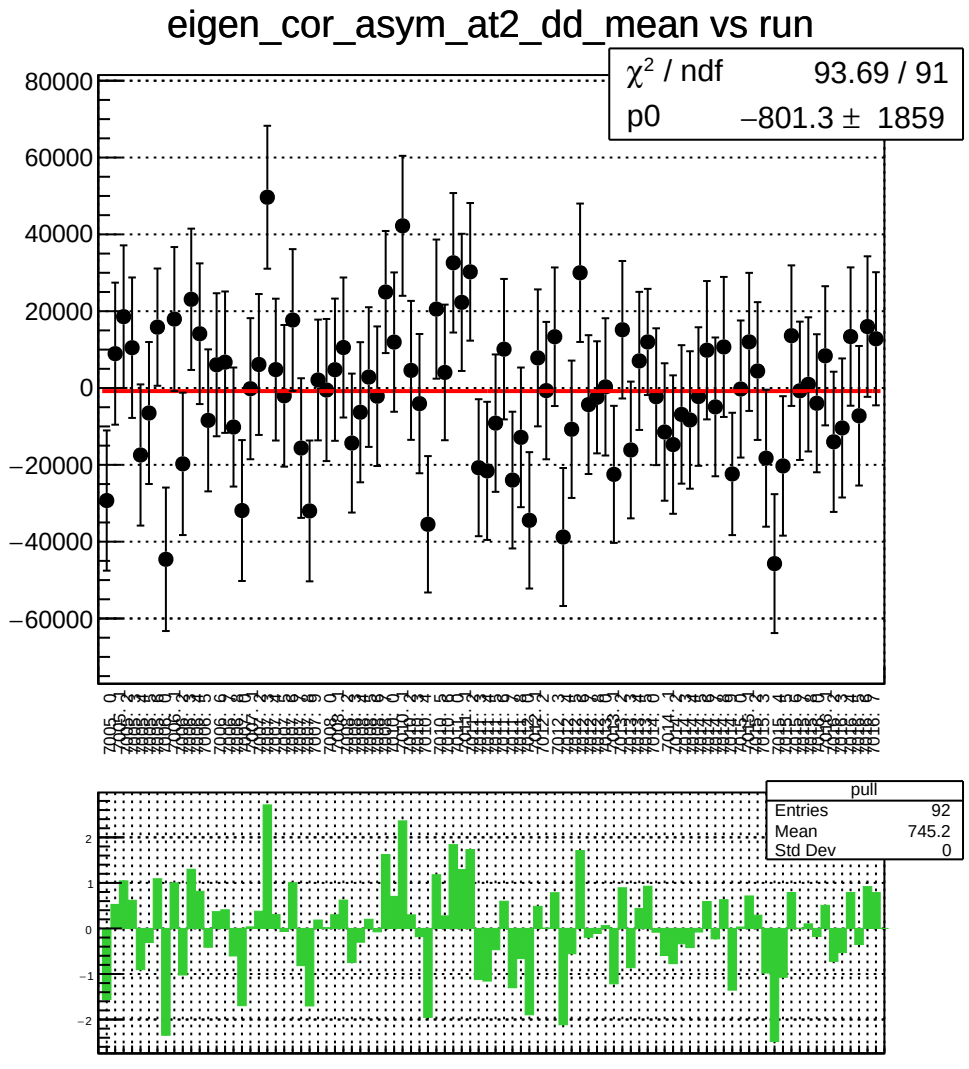

cor_asym_at2_dd_mean vs run
χ² / ndf 93.69 / 91
p0 −801.3 ± 1859
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 745.2
Std Dev 0
2
1
0
−1
−2

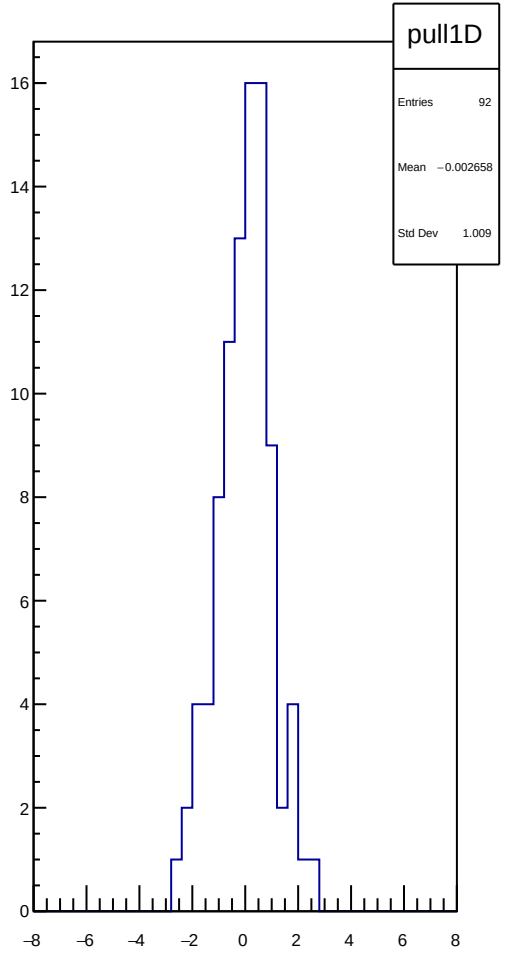

pull1D
Entries 92
Mean −0.002658
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

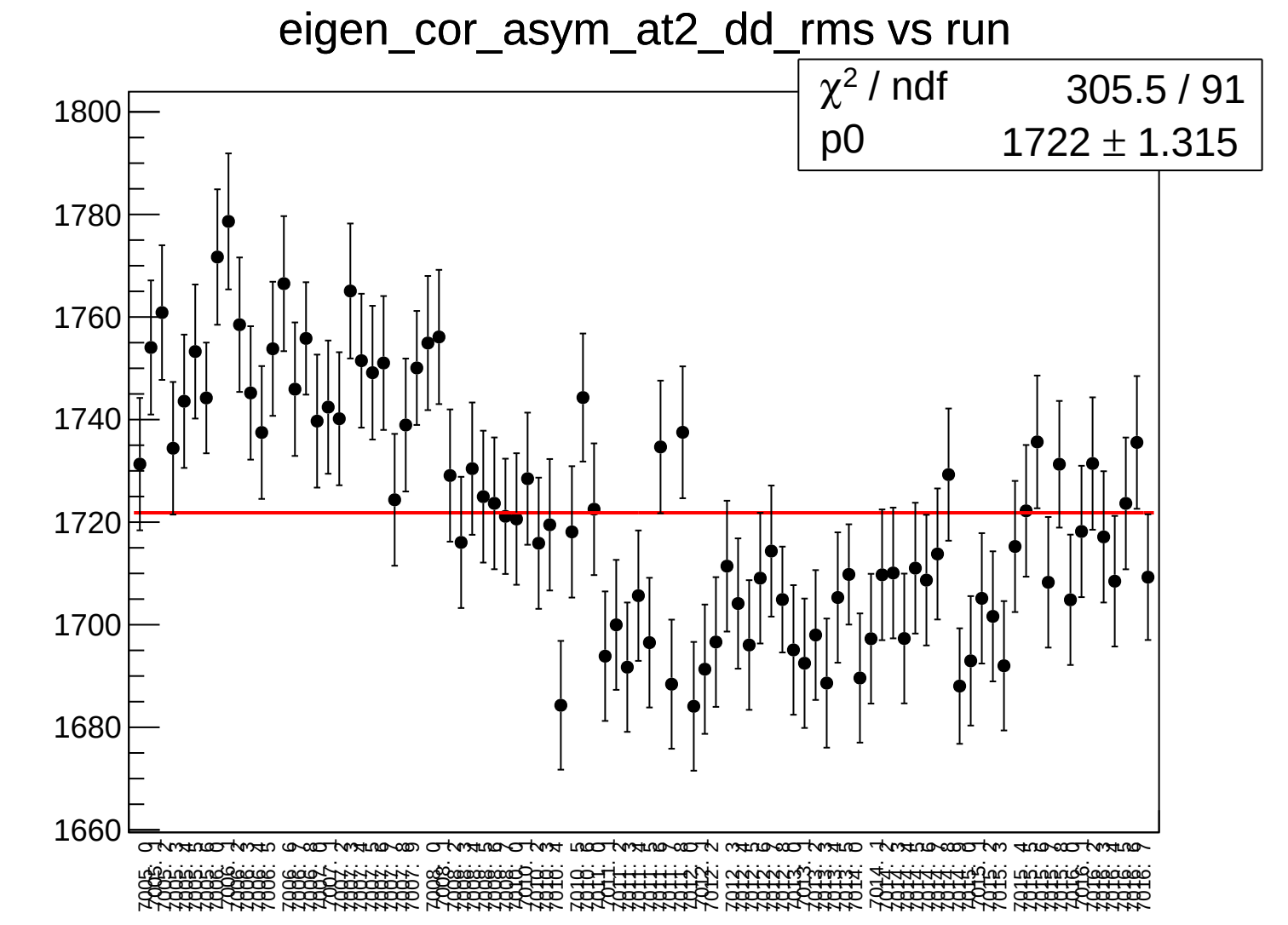

cor_asym_at2_dd_rms vs run
χ² / ndf 305.5 / 91
p0 1722 ± 1.315
1800
1780
1760
1740
1720
1700
1680
1660

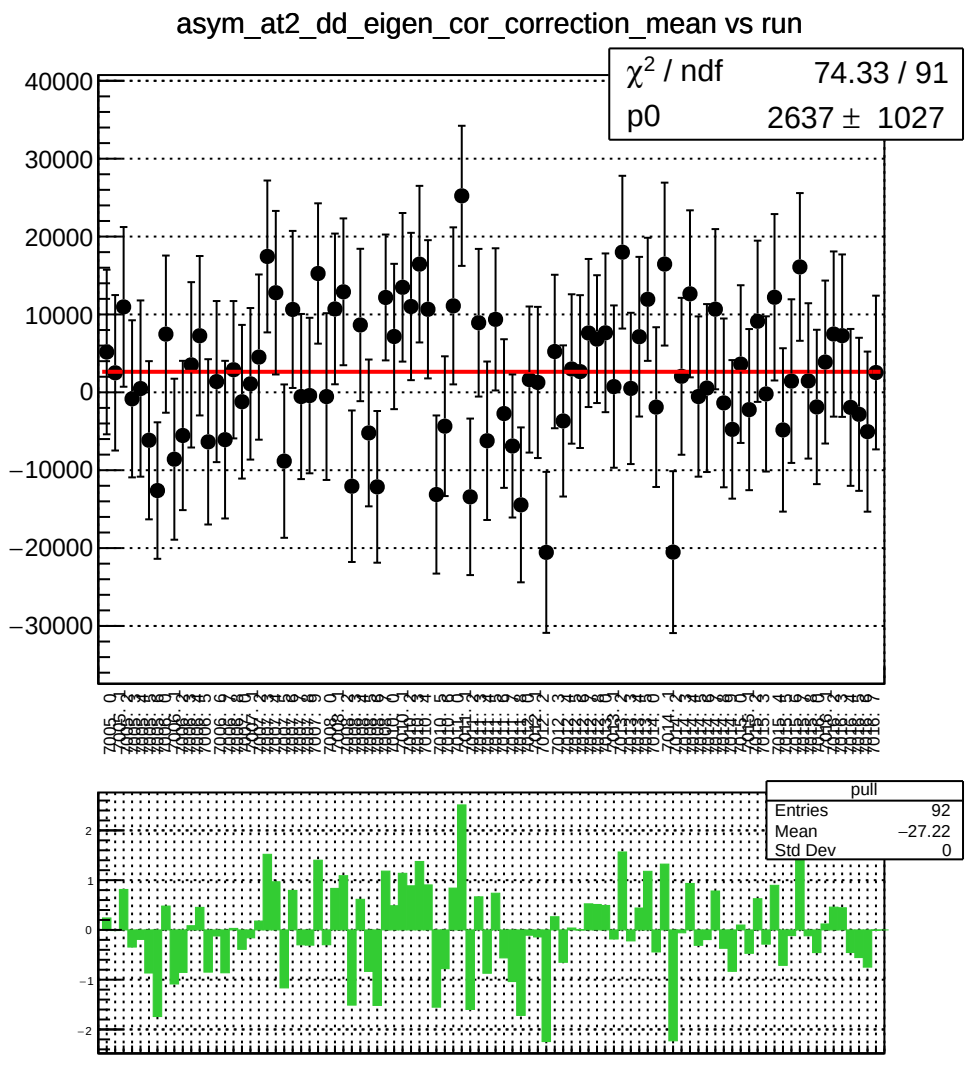

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 74.33 / 91
p0 2637 ± 1027
pull
Entries 92
Mean −27.22
Std Dev 0
pull1D
Entries 92
Mean −0.0117
Std Dev 0.8988

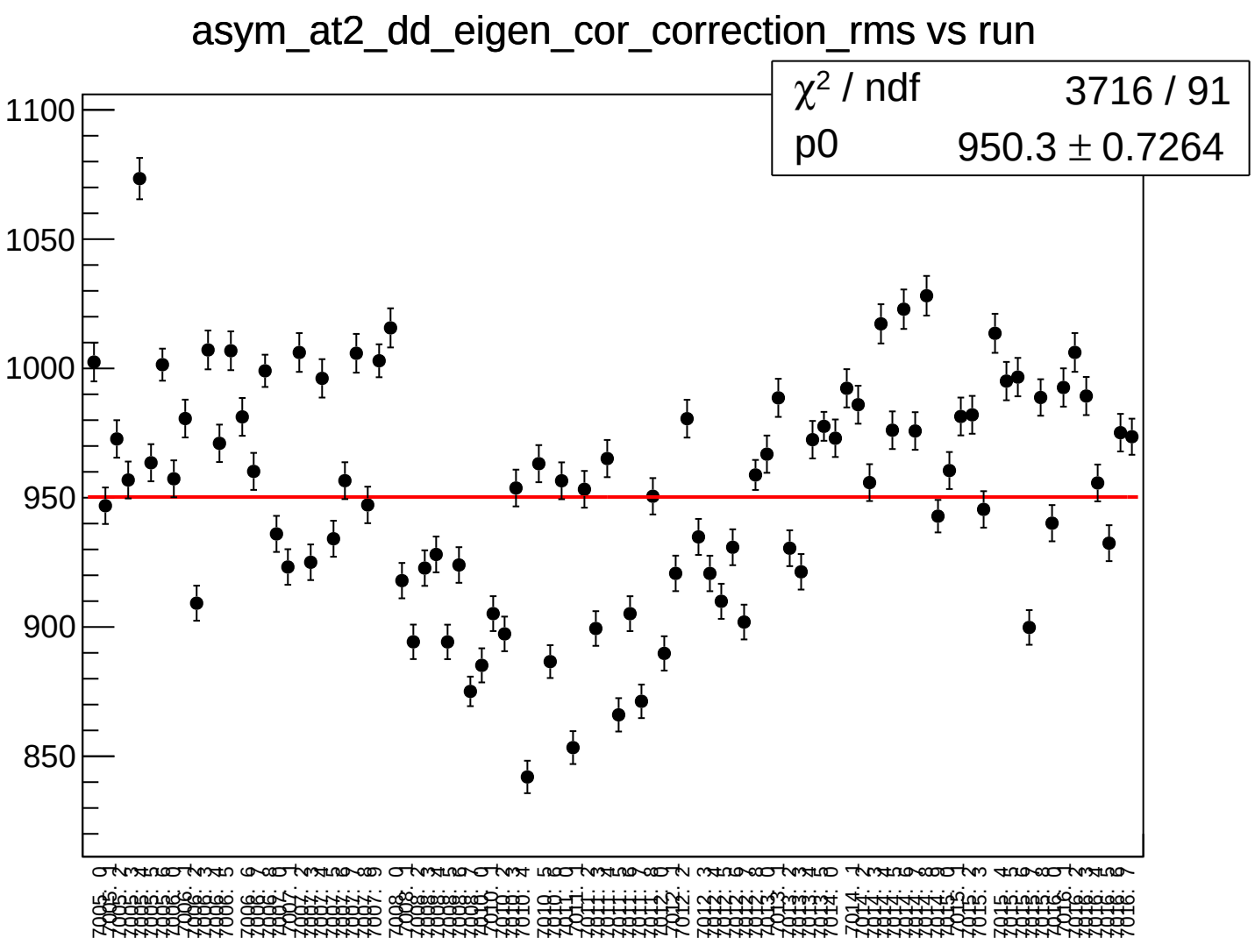

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 3716 / 91
p0 950.3 ± 0.7264
1100
1050
1000
950
900
850

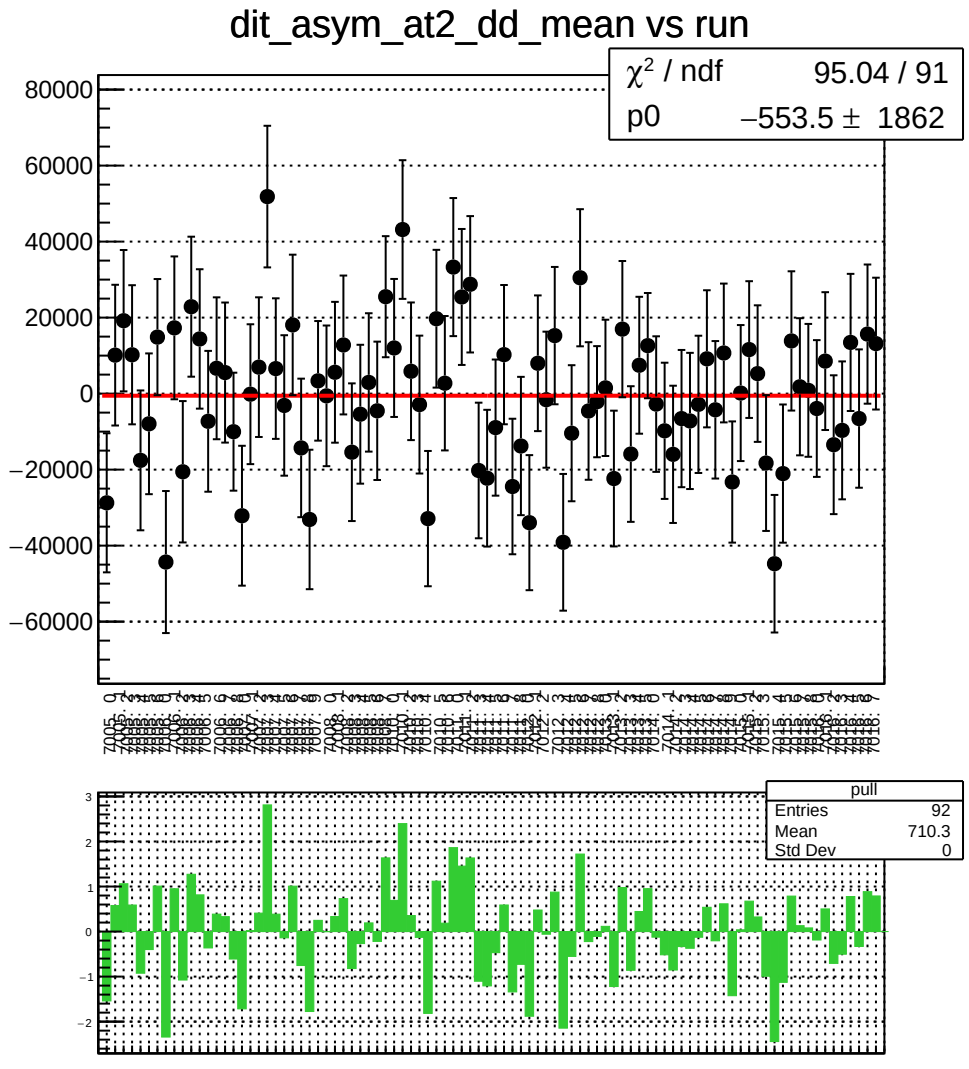

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 93.69 / 91
p0 −801.3 ± 1859
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 745.2
Std Dev 0
2
1
0
−1
−2

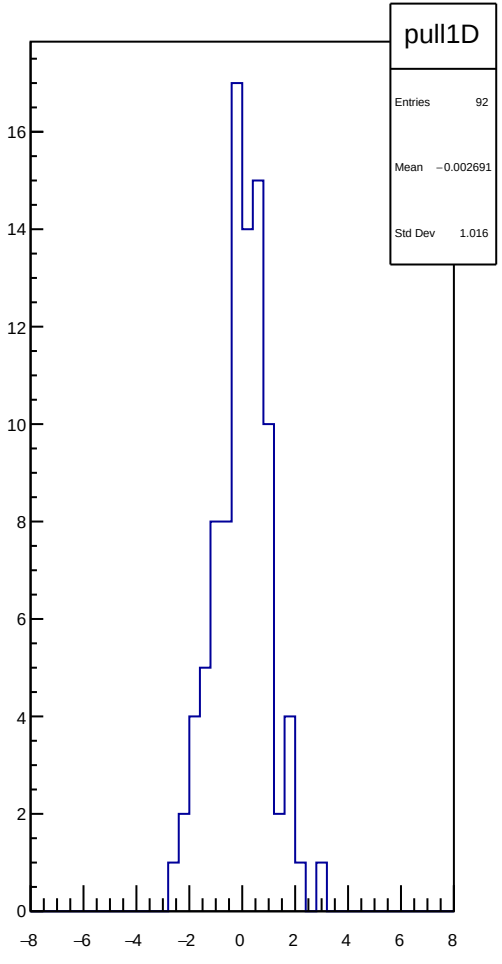

pull1D
Entries 92
Mean −0.002658
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

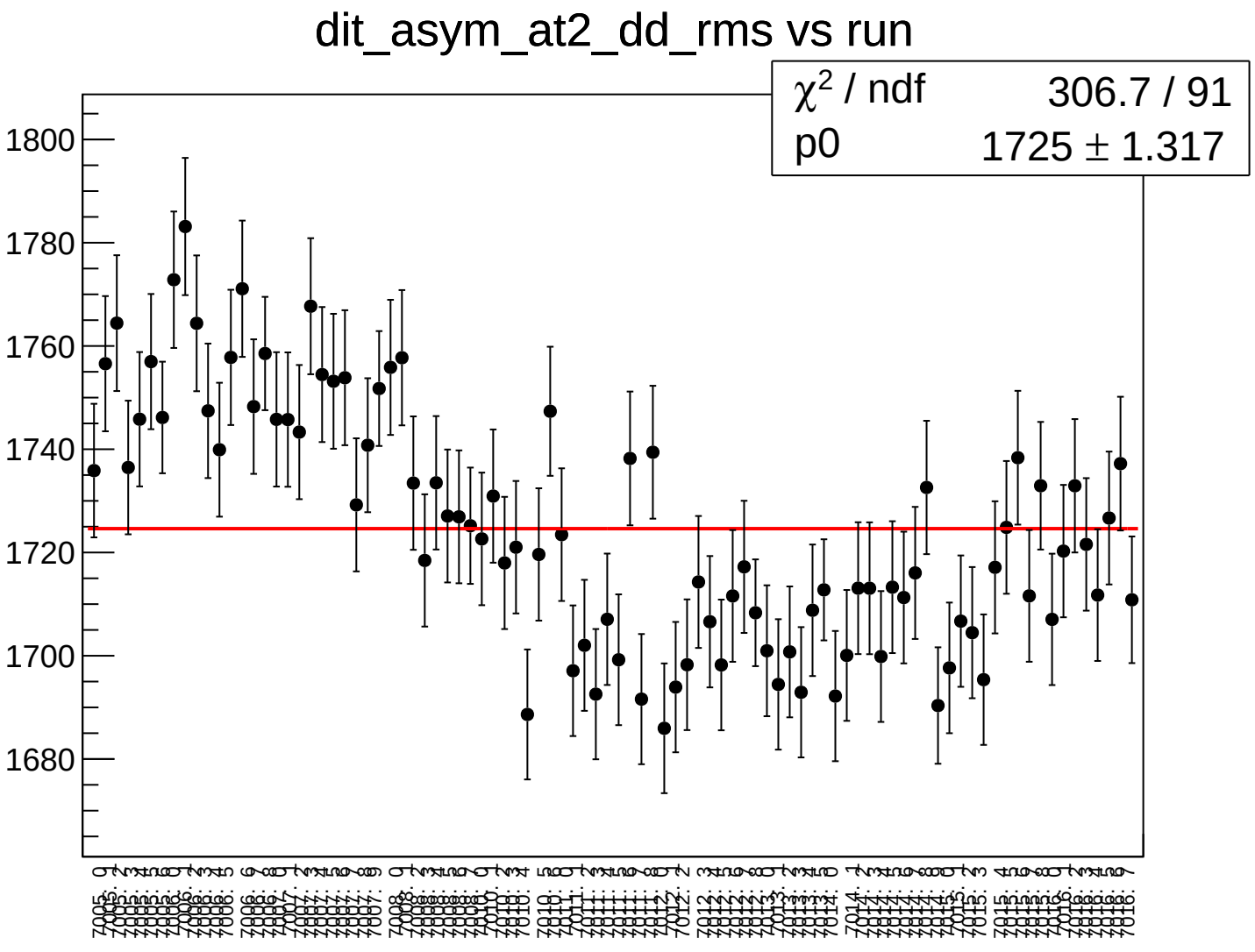

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 305.5 / 91
p0 1722 ± 1.315
1800
1780
1760
1740
1720
1700
1680
1660

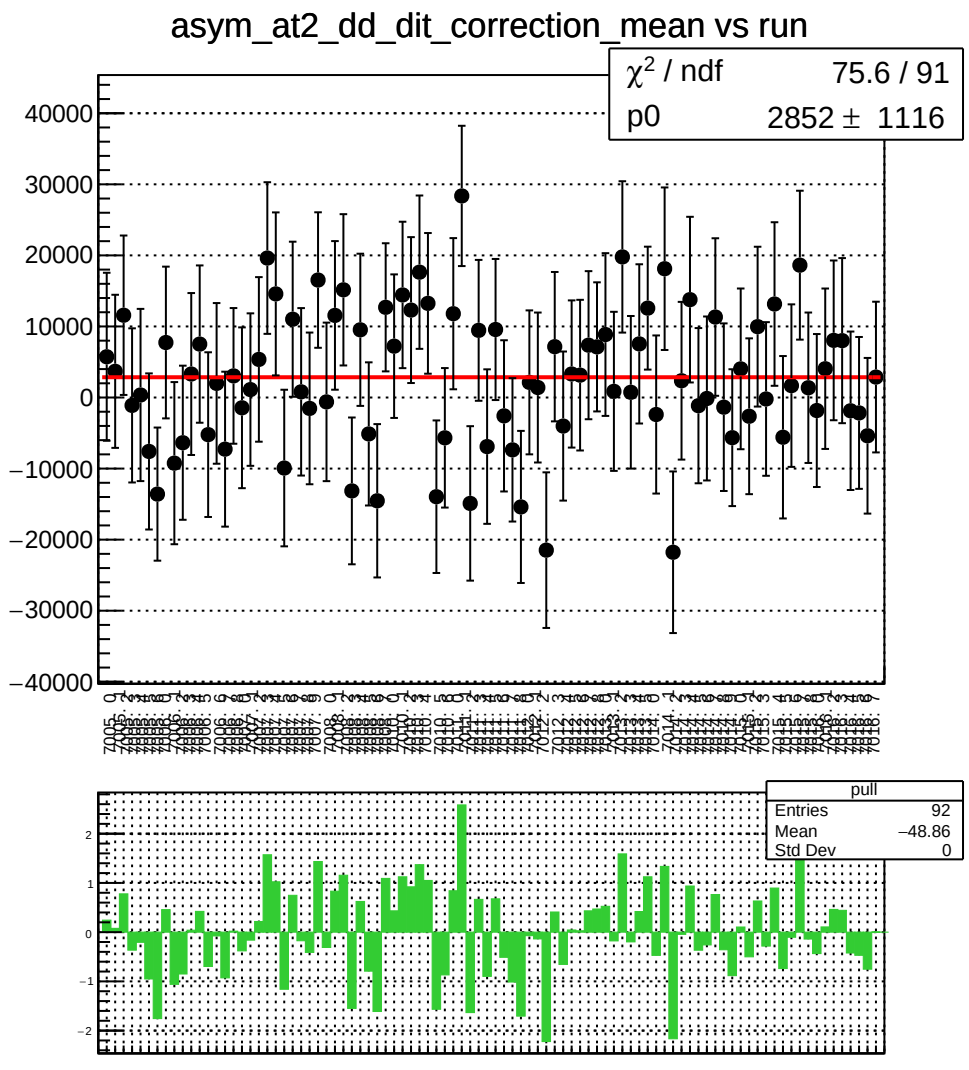

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.33 / 91
p0 2637 ± 1027
pull
Entries 92
Mean −27.22
Std Dev 0
pull1D
Entries 92
Mean −0.0117
Std Dev 0.8988

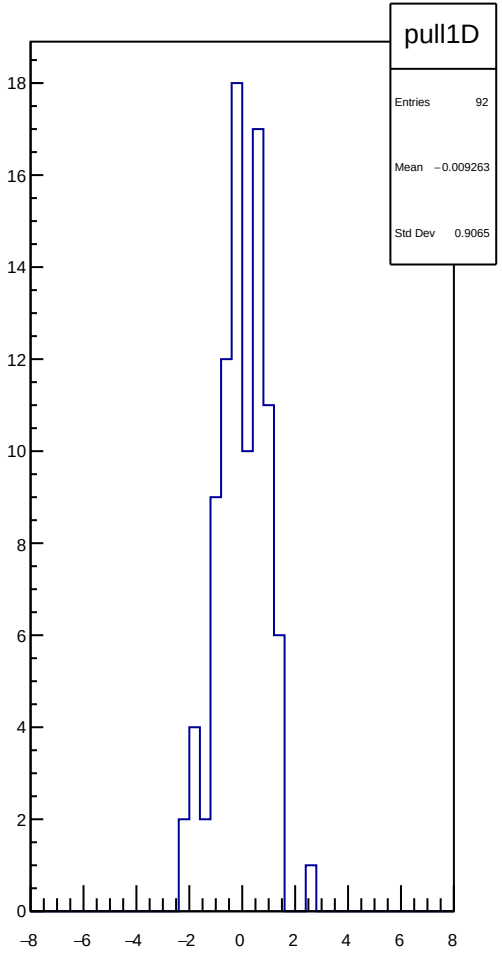

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3716 / 91
p0 950.3 ± 0.7264
1100
1050
1000
950
900
850

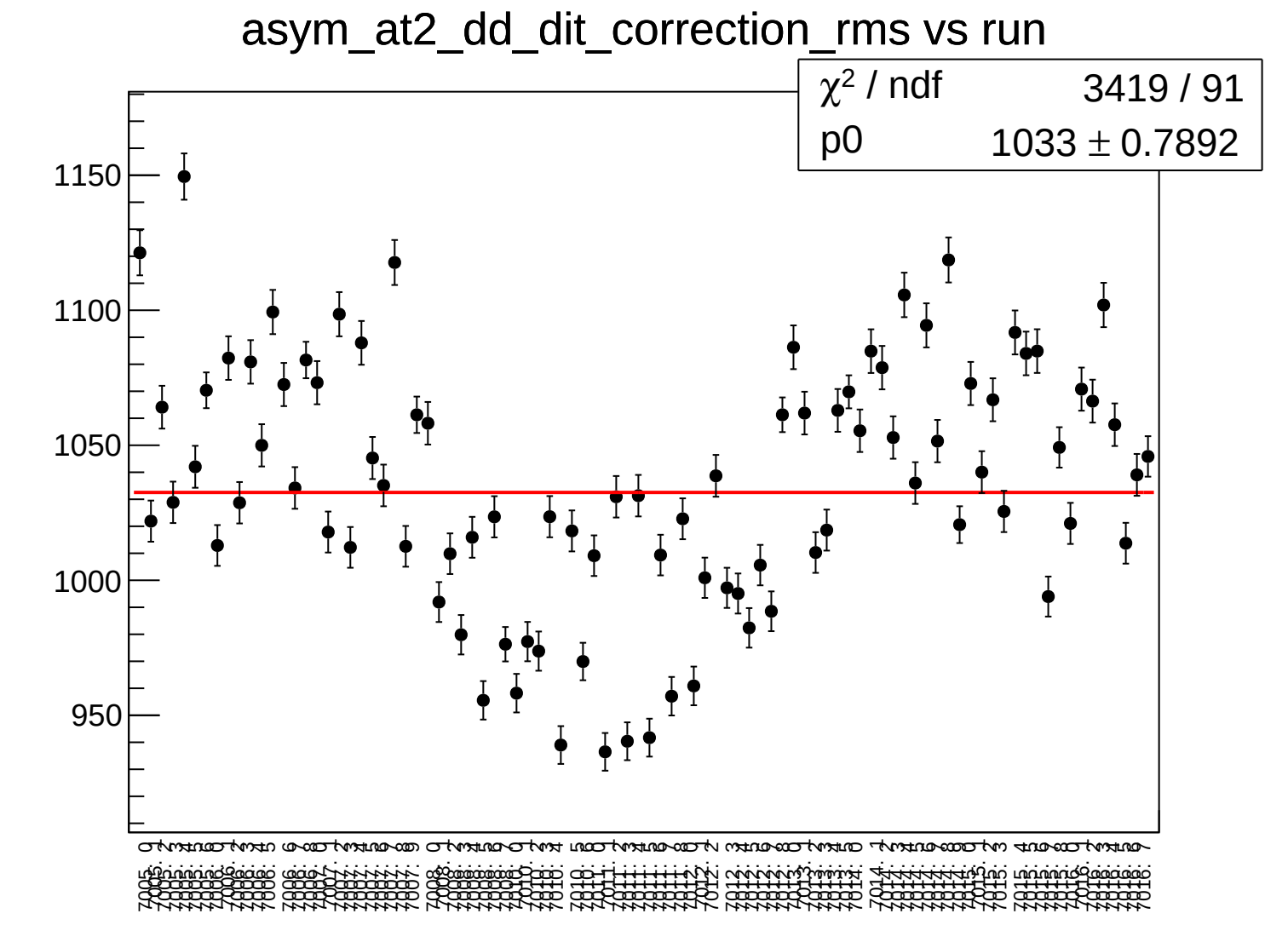

dit_asym_at2_dd_mean vs run
χ² / ndf 95.04 / 91
p0 −553.5 ± 1862
pull
Entries 92
Mean 710.3
Std Dev 0

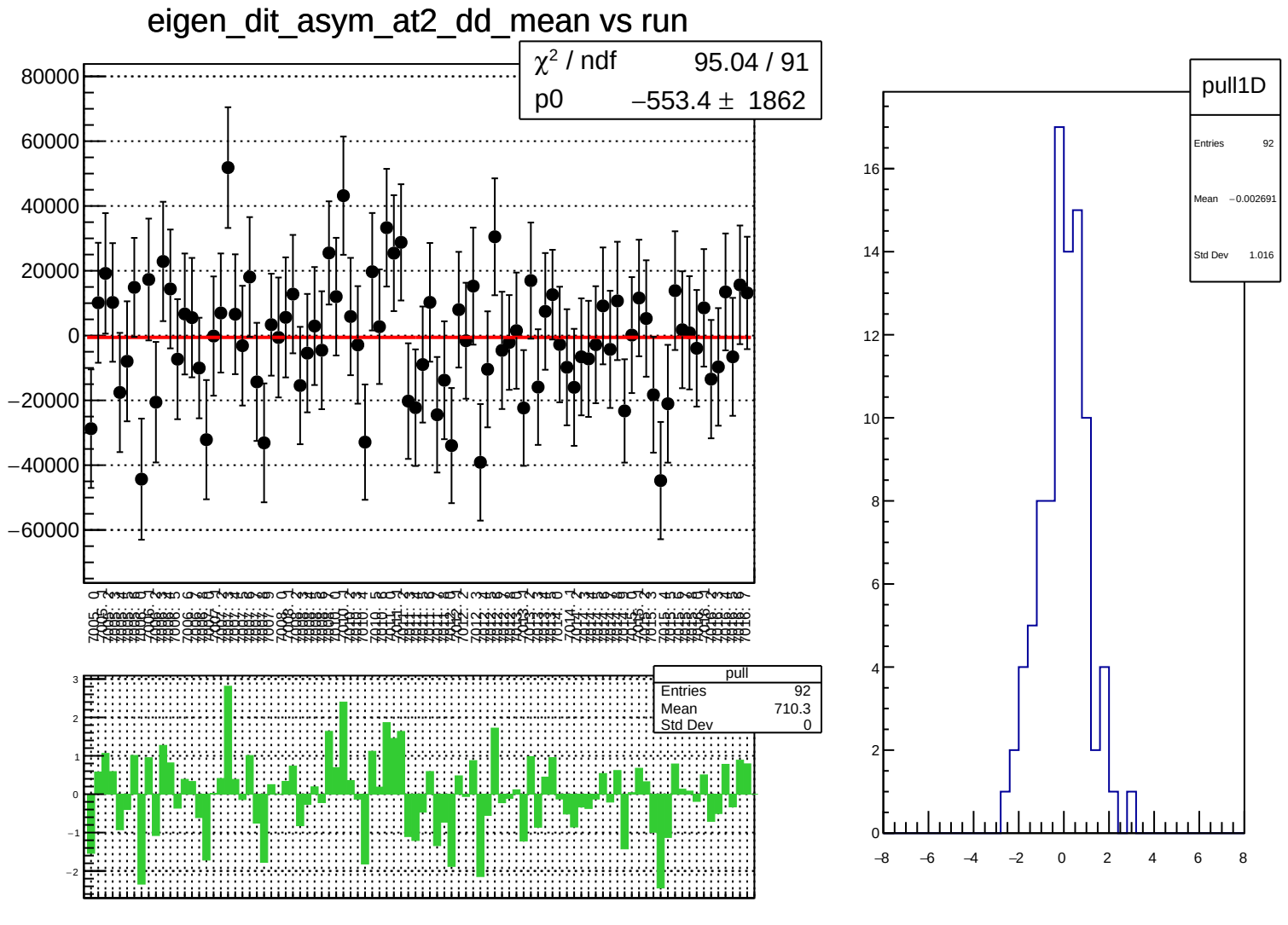

pull1D
Entries 92
Mean −0.002691
Std Dev 1.016

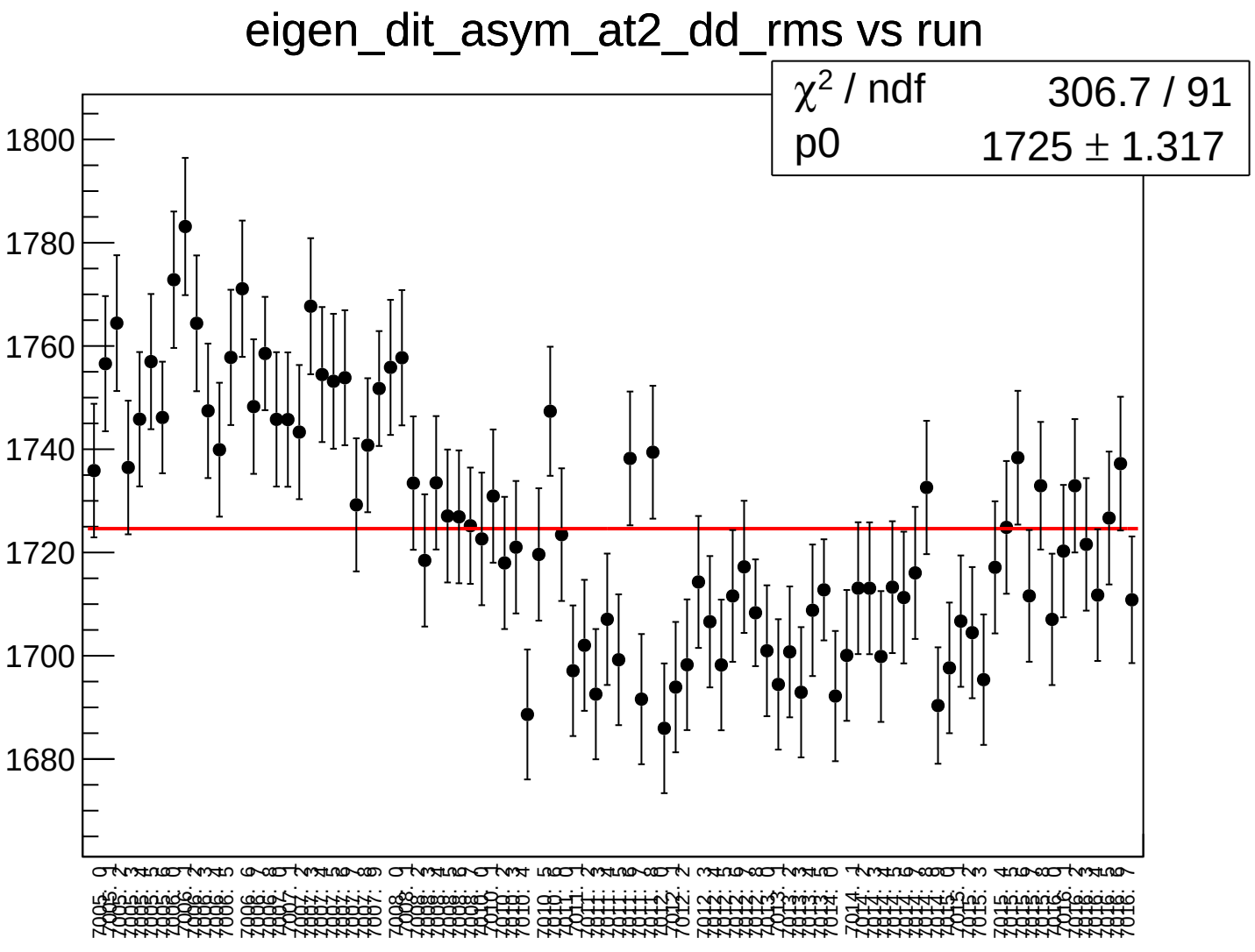

dit_asym_at2_dd_rms vs run
χ² / ndf 306.7 / 91
p0 1725 ± 1.317
1800
1780
1760
1740
1720
1700
1680

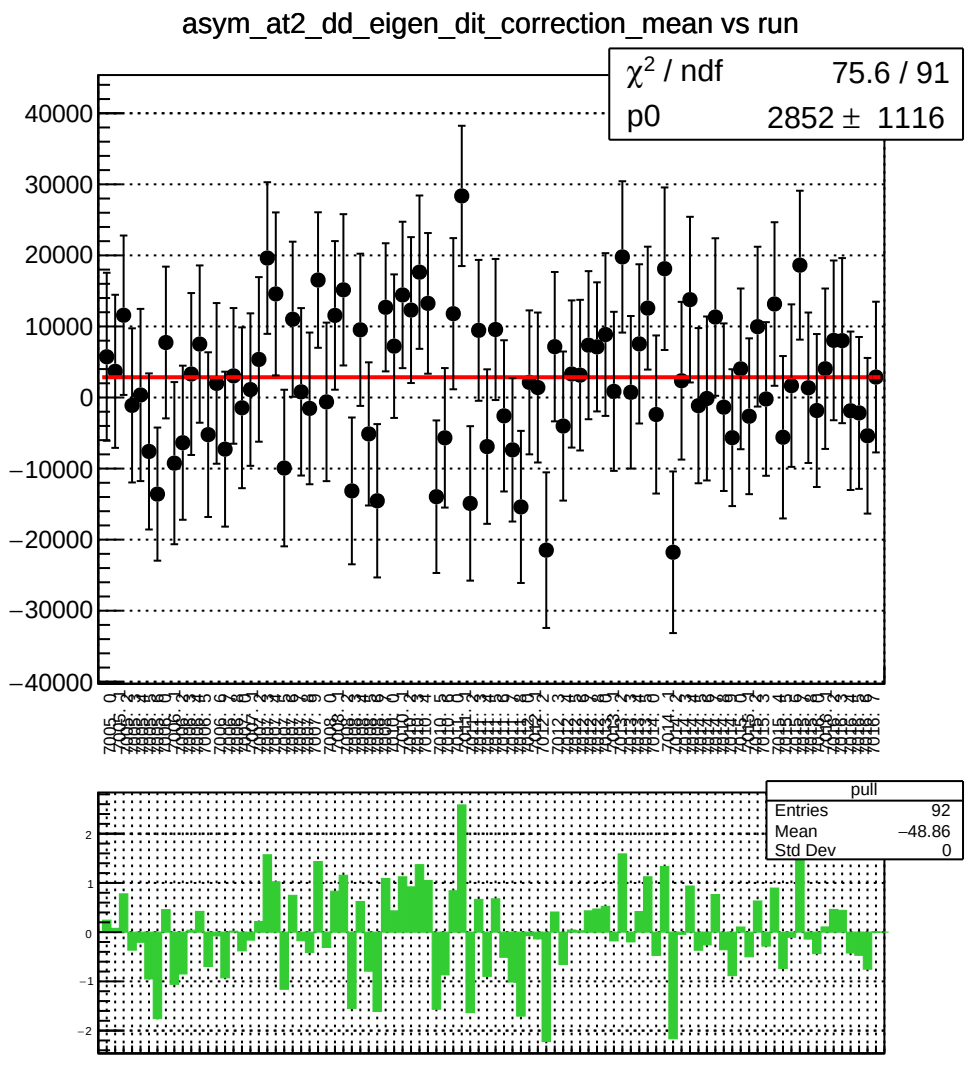

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 75.6 / 91
p0 2852 ± 1116
pull
Entries 92
Mean −48.86
Std Dev 0

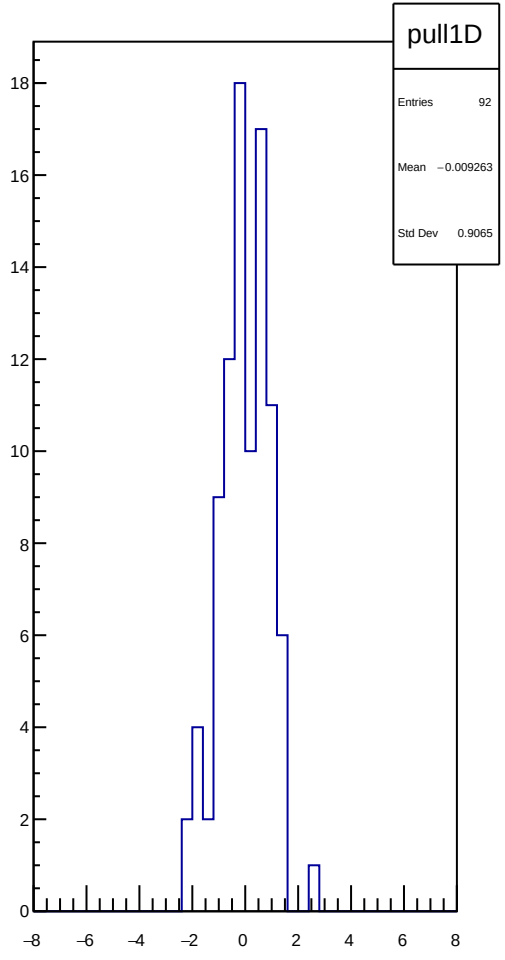

pull1D
Entries 92
Mean −0.009263
Std Dev 0.9065

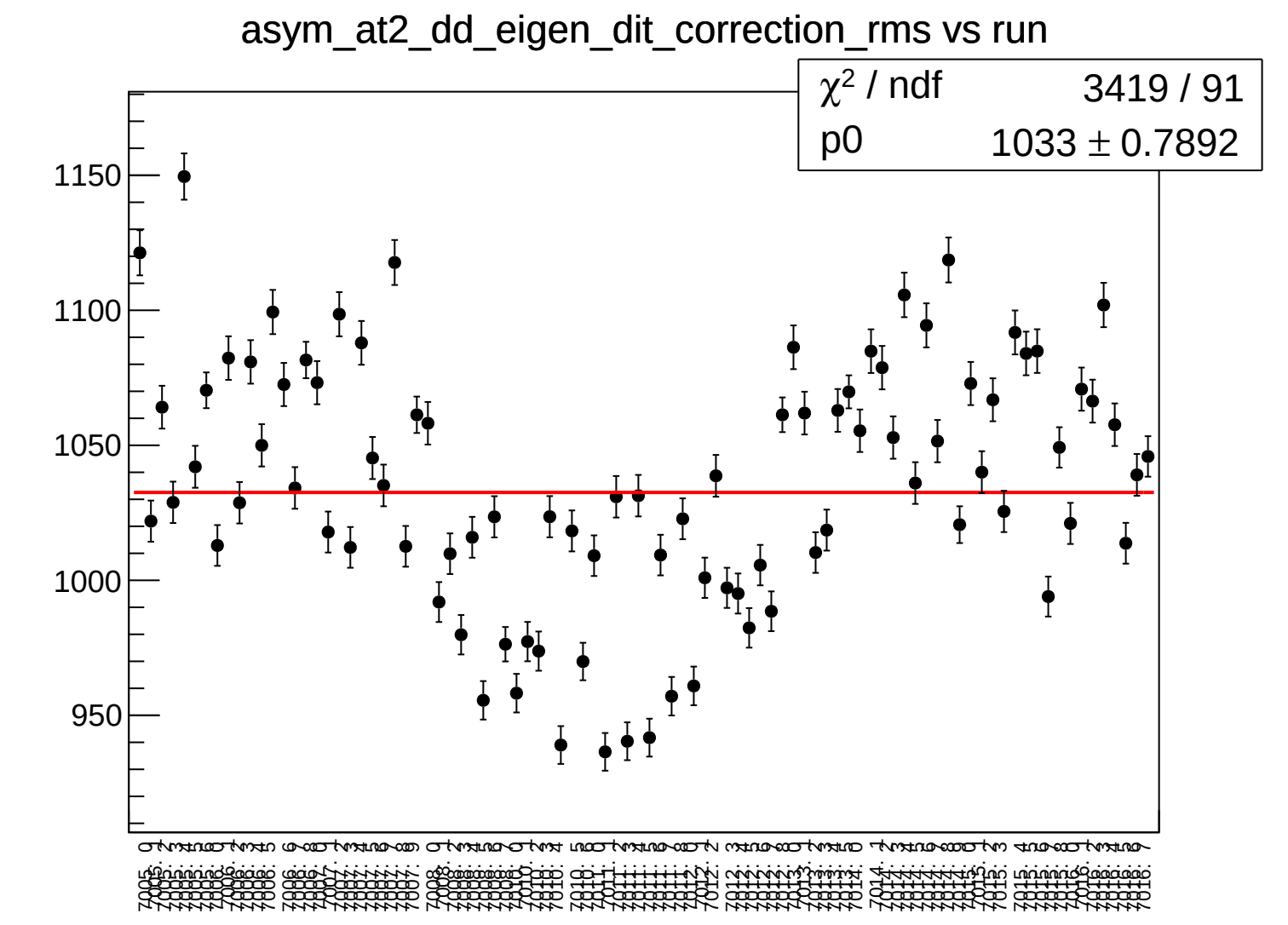

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 3419 / 91
p0 1033 ± 0.7892
1150
1100
1050
1000
950

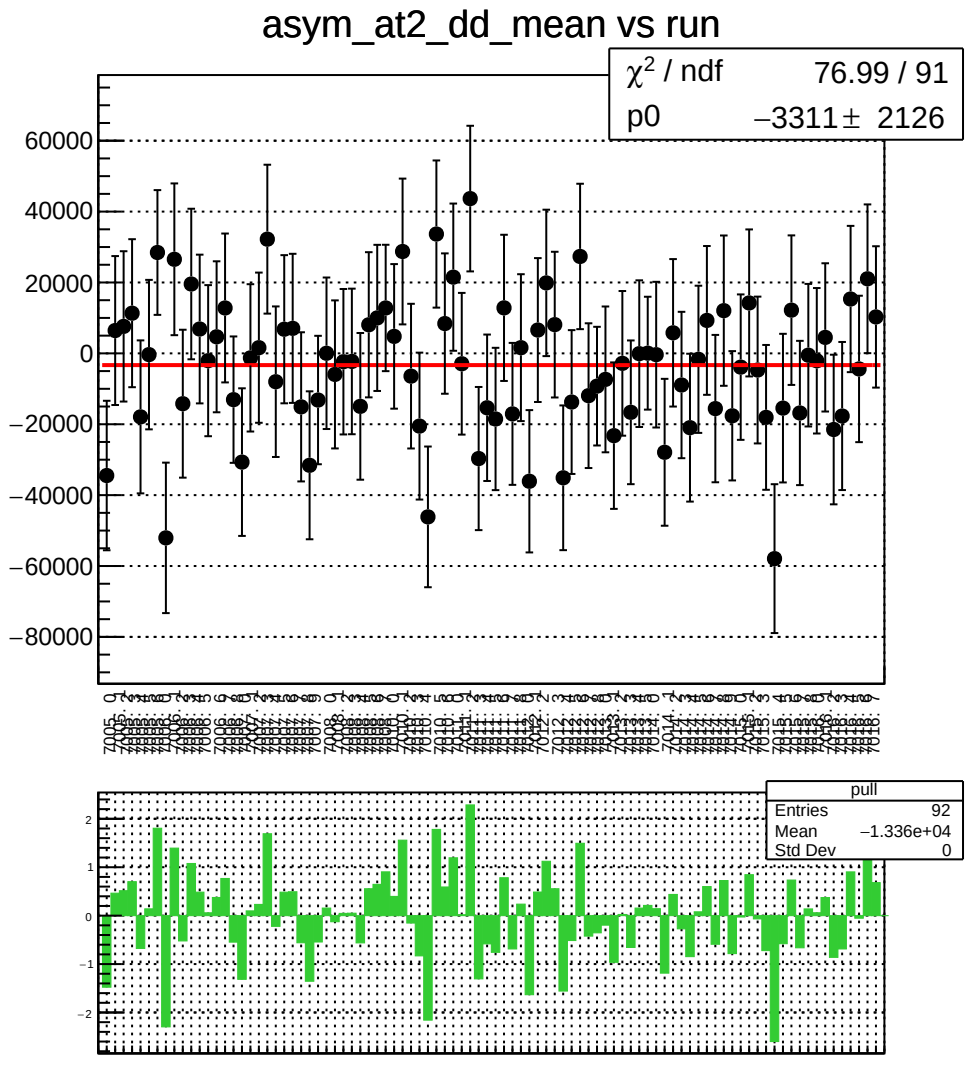

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 95.04 / 91
p0 −553.4 ± 1862
pull
Entries 92
Mean 710.3
Std Dev 0
pull1D
Entries 92
Mean −0.002691
Std Dev 1.016

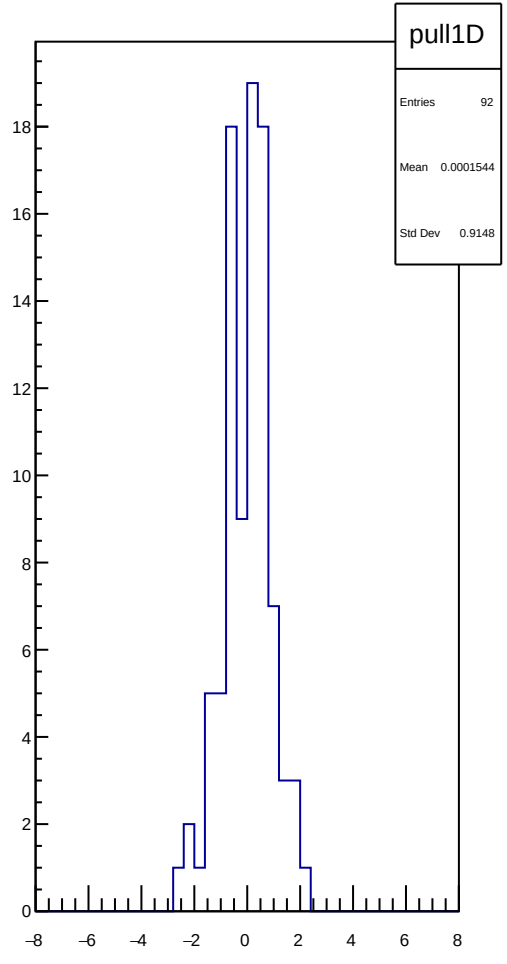

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 306.7 / 91
p0 1725 ± 1.317
1800
1780
1760
1740
1720
1700
1680

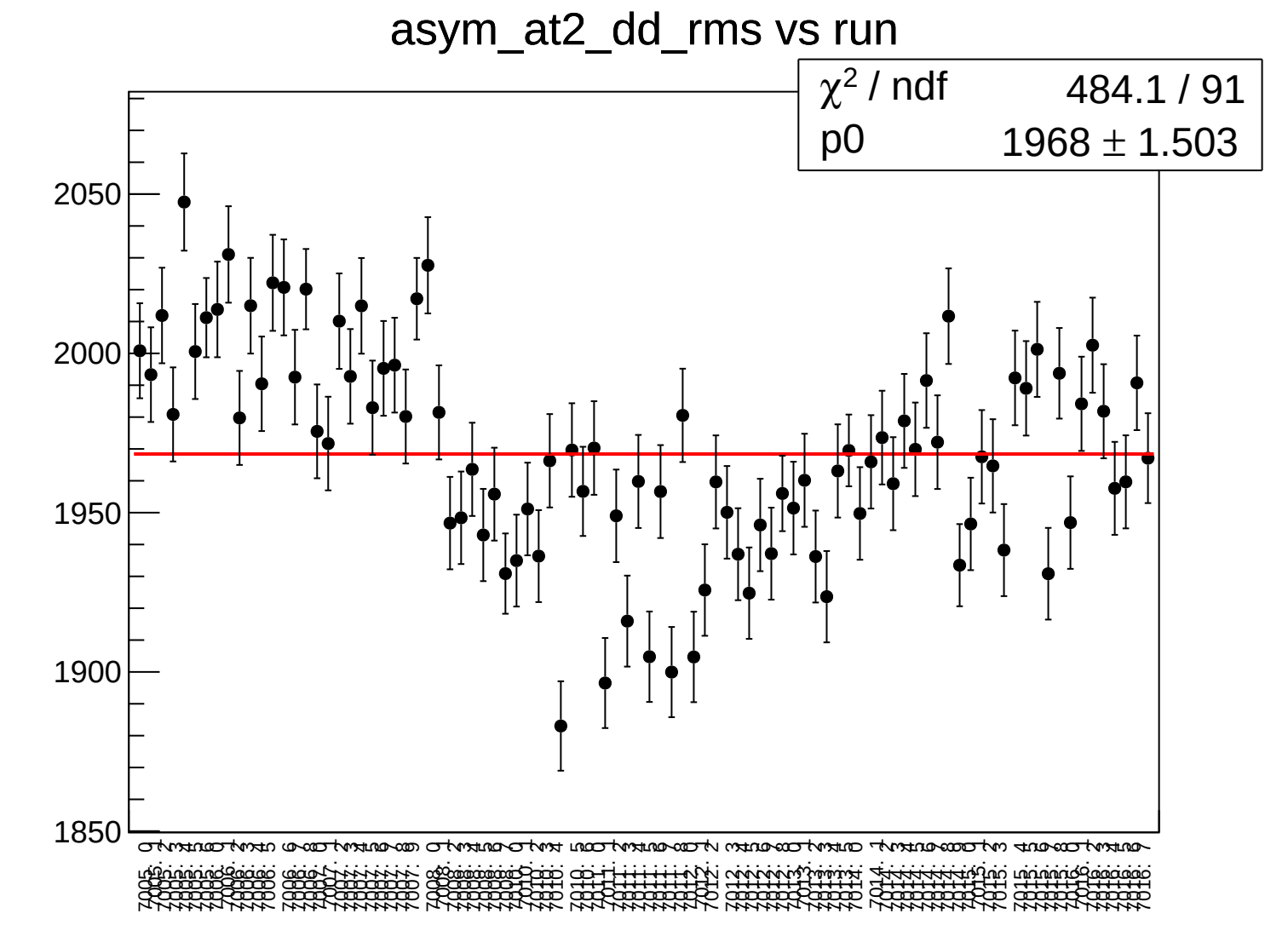

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.6 / 91
p0 2852 ± 1116
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −48.86
Std Dev 0
2
1
0
−1
−2

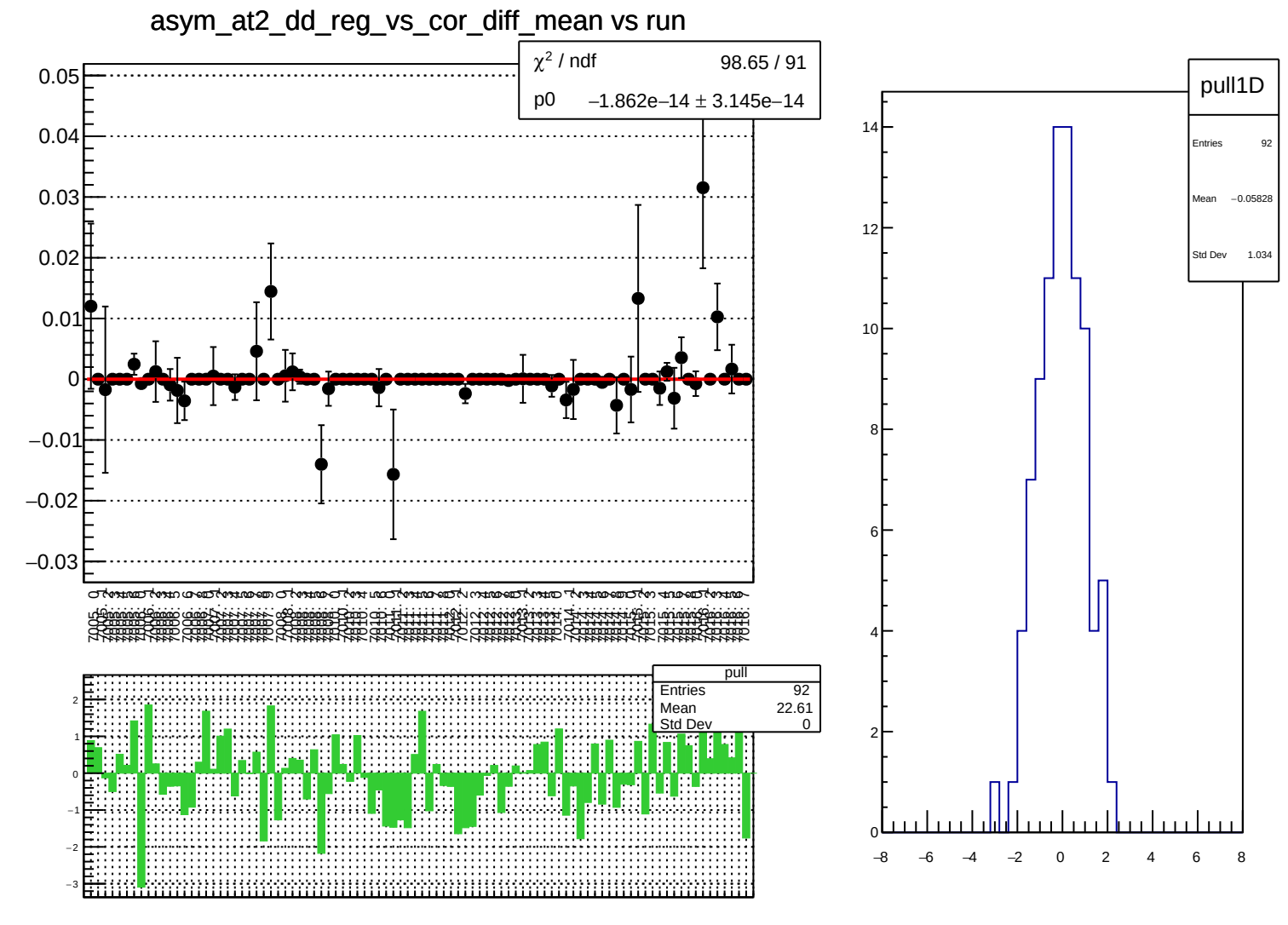

pull1D
Entries 92
Mean −0.009263
Std Dev 0.9065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

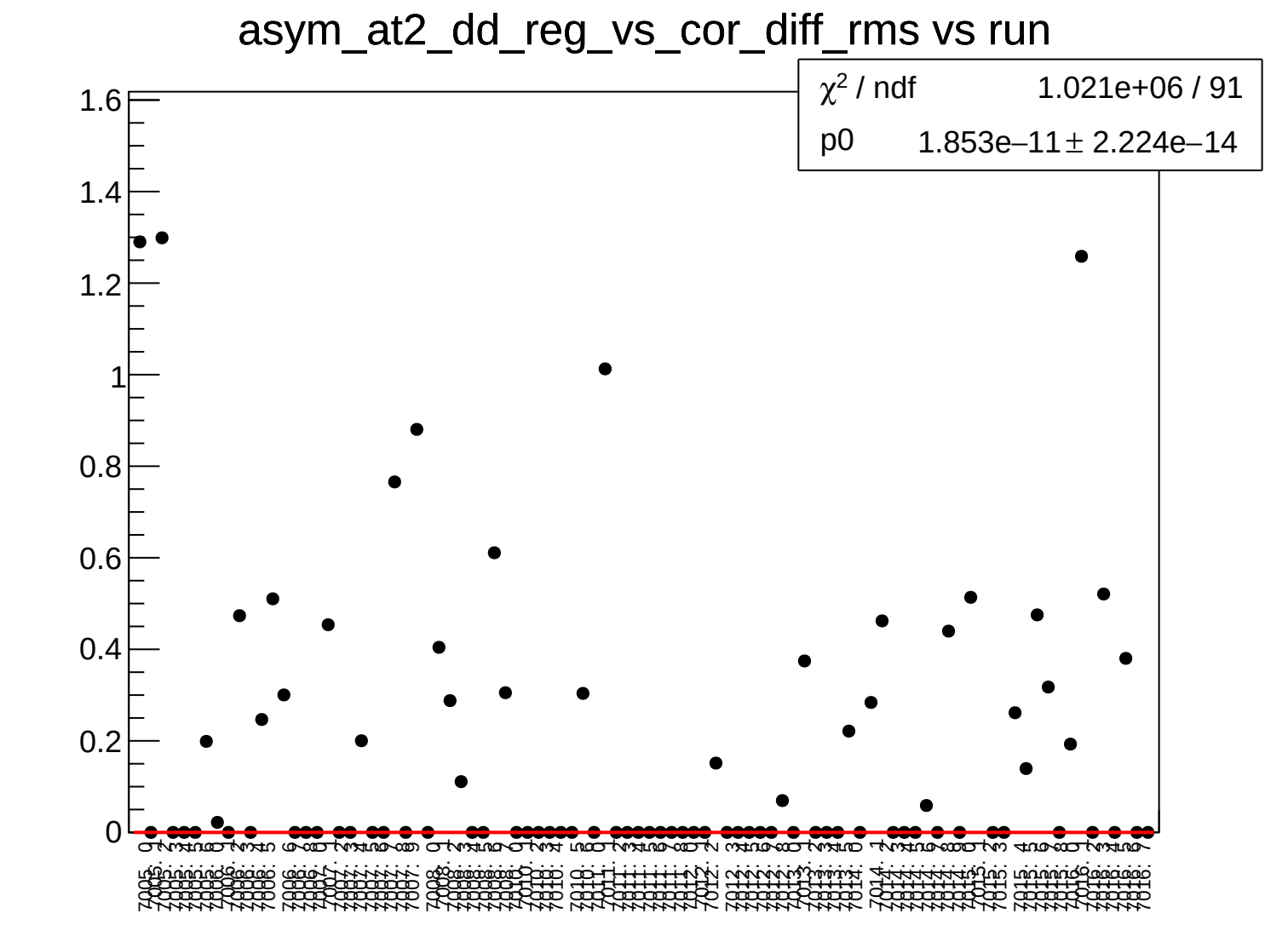

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3419 / 91
p0 1033 ± 0.7892
1150
1100
1050
1000
950

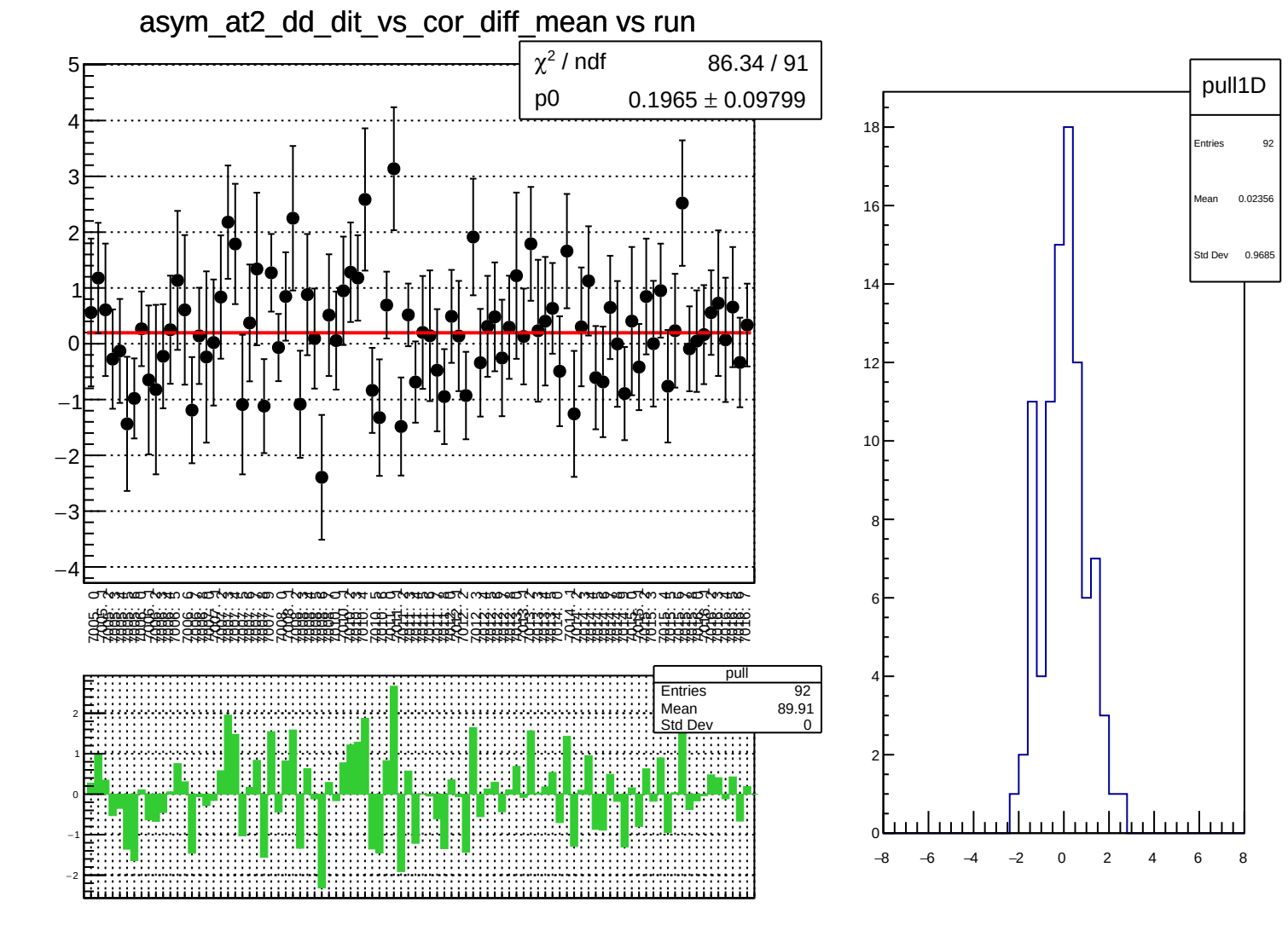

asym_at2_dd_mean vs run
χ² / ndf 76.99 / 91
p0 −3311 ± 2126
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −1.336e+04
Std Dev 0
2
1
0
−1
−2

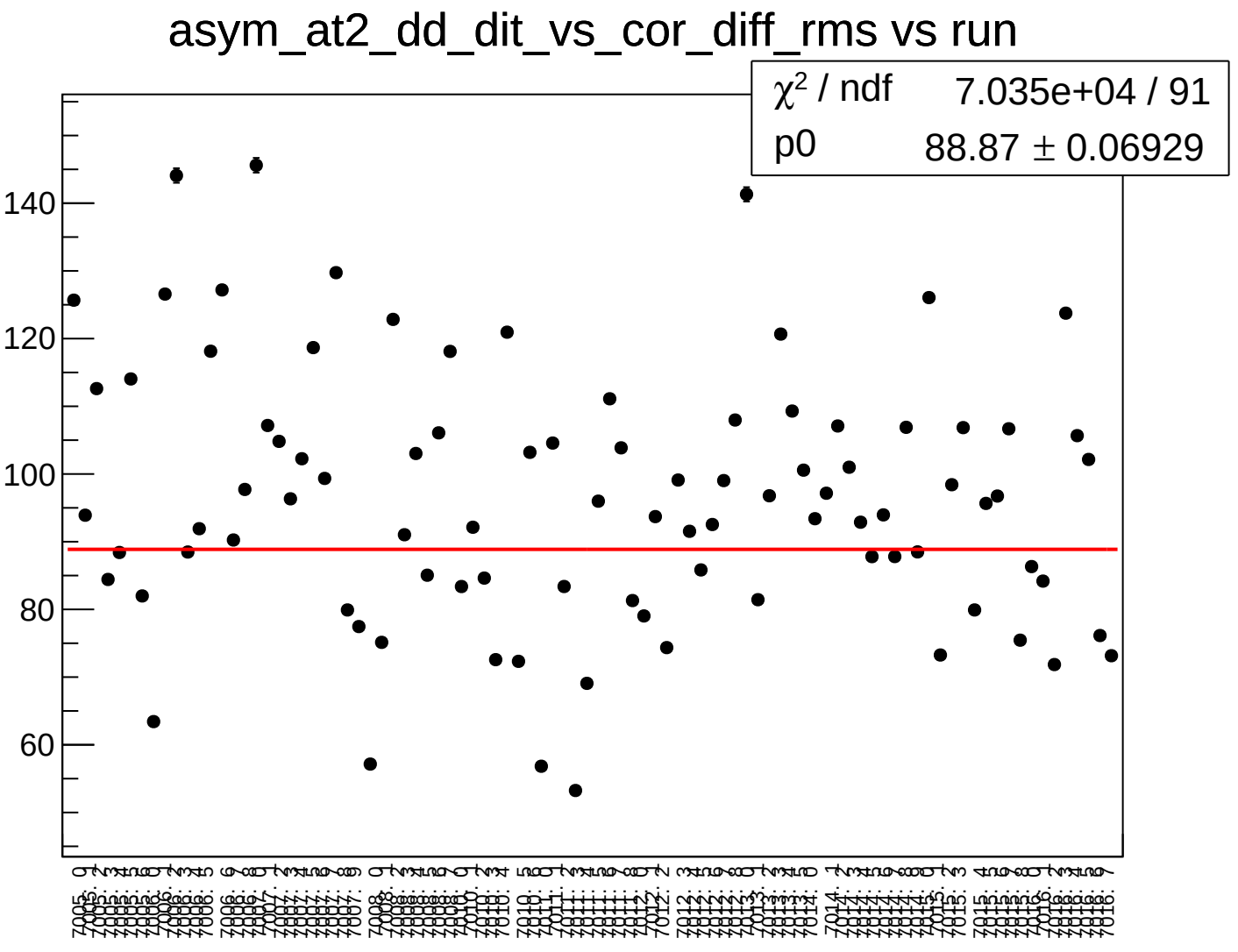

pull1D
Entries 92
Mean 0.0001544
Std Dev 0.9148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

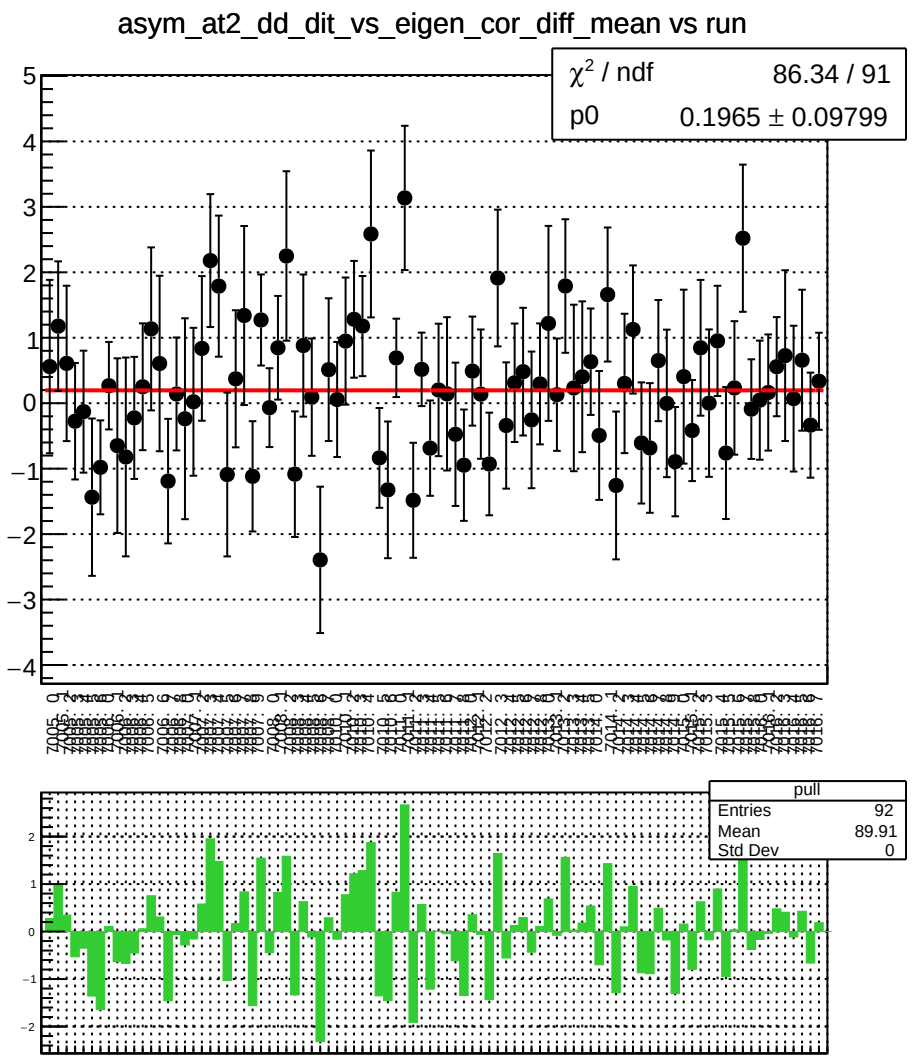

asym_at2_dd_rms vs run
$\chi^2$ / ndf 484.1 / 91
p0 1968 ± 1.503
2050
2000
1950
1900
1850

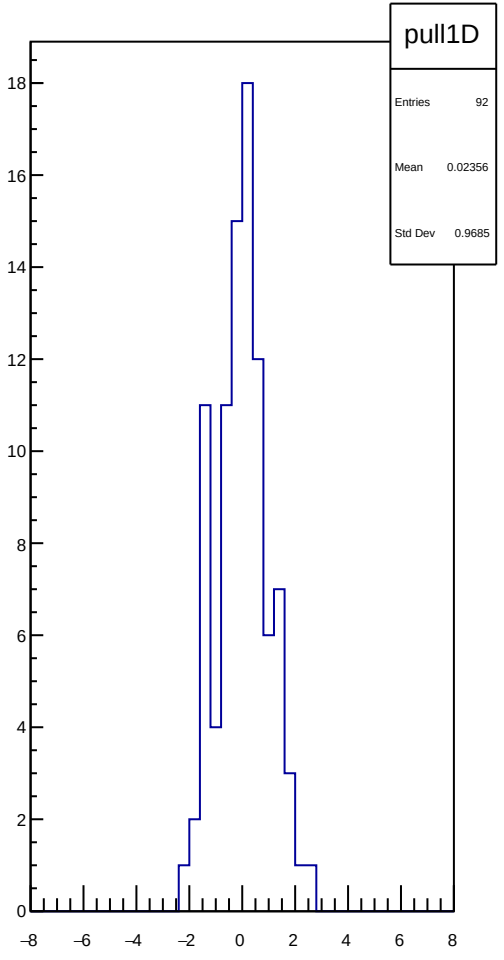

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.65 / 91
p0 −1.862e−14 ± 3.145e−14
pull
Entries 92
Mean 22.61
Std Dev 0
pull1D
Entries 92
Mean −0.05828
Std Dev 1.034

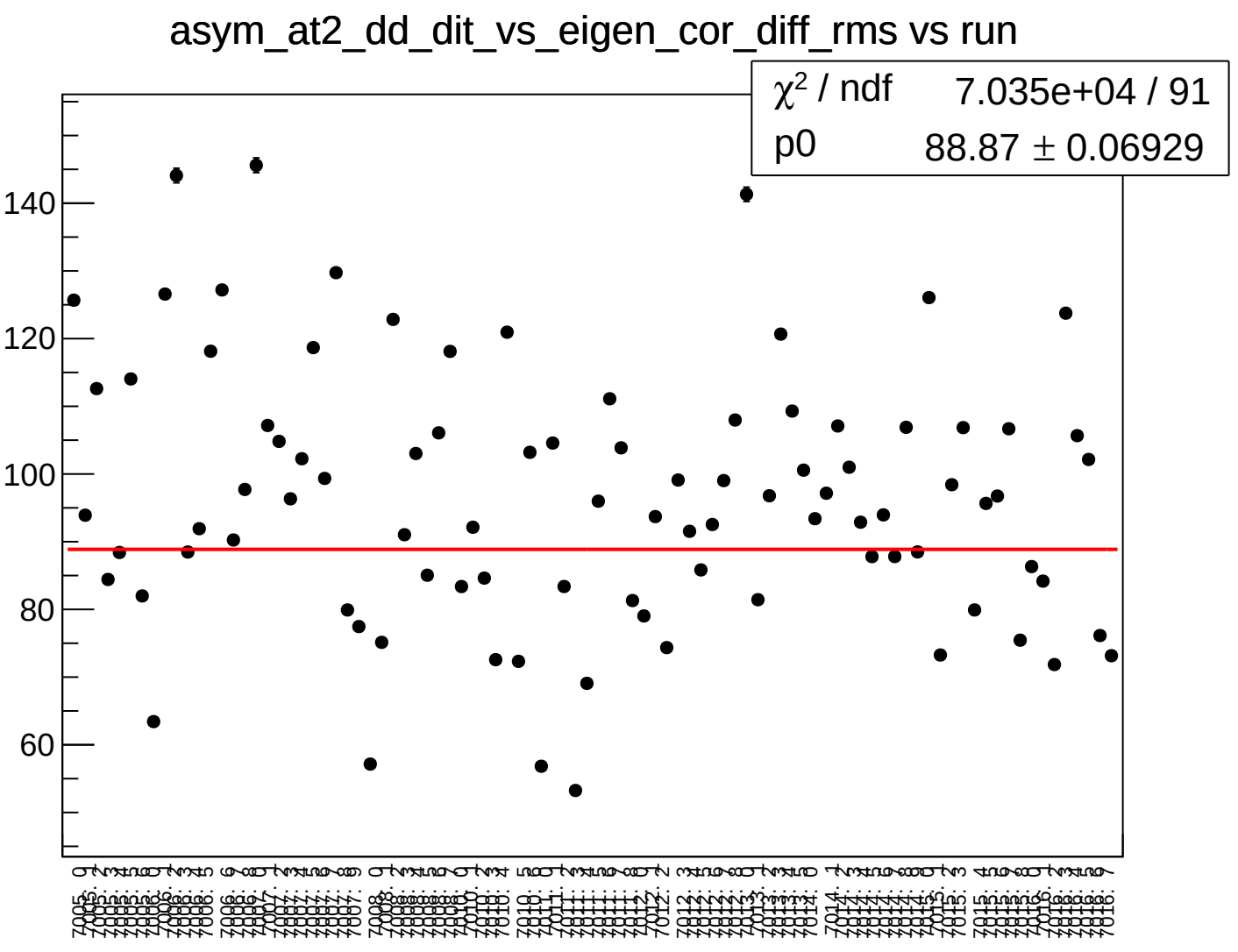

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.021e+06 / 91
p0 1.853e−11 ± 2.224e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

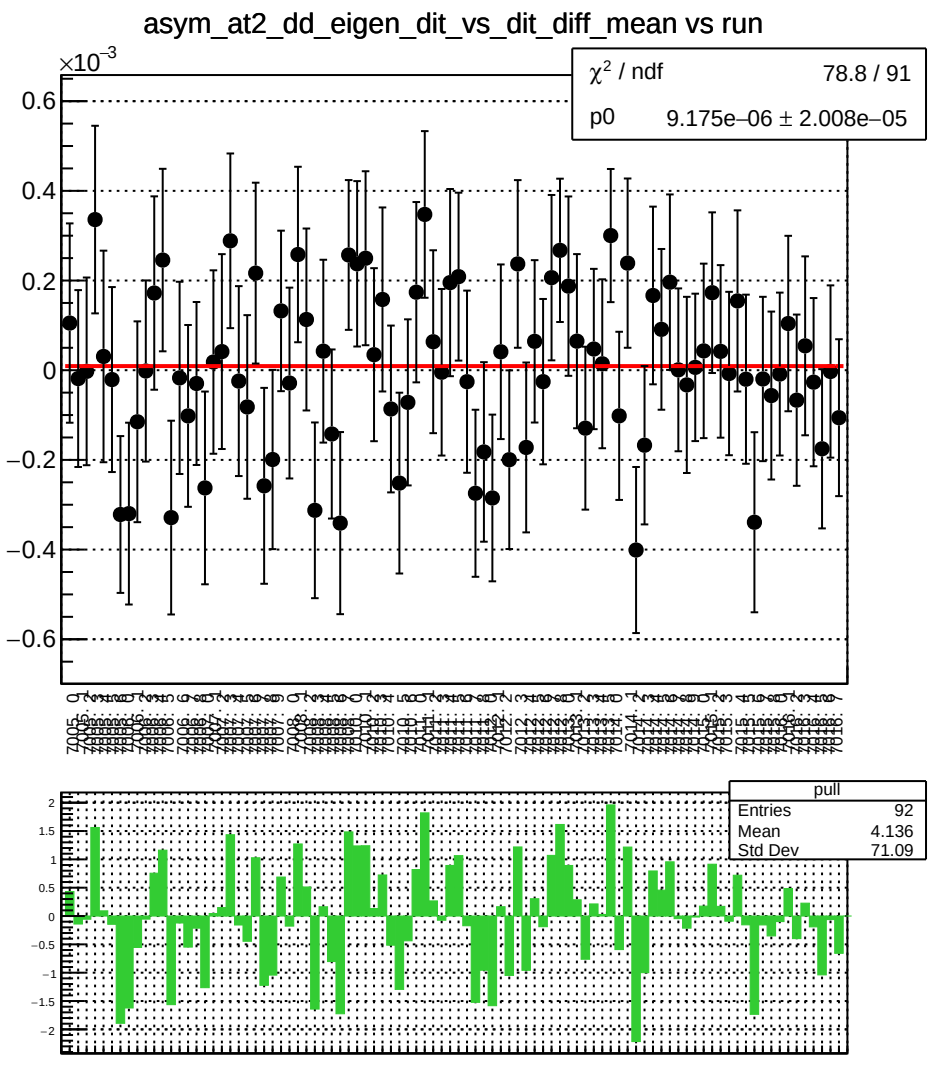

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.34 / 91
p0 0.1965 ± 0.09799
pull
Entries 92
Mean 89.91
Std Dev 0
pull1D
Entries 92
Mean 0.02356
Std Dev 0.9685

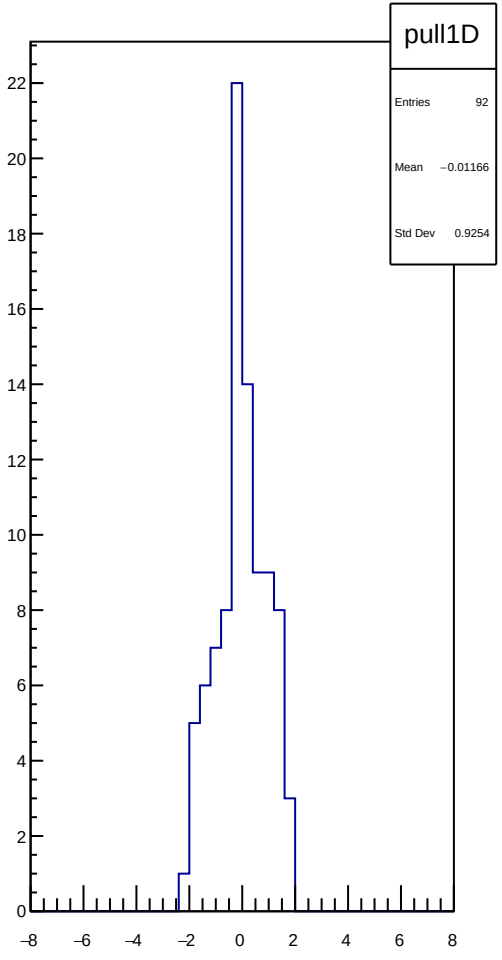

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.035e+04 / 91
p0 88.87 ± 0.06929
140
120
100
80
60

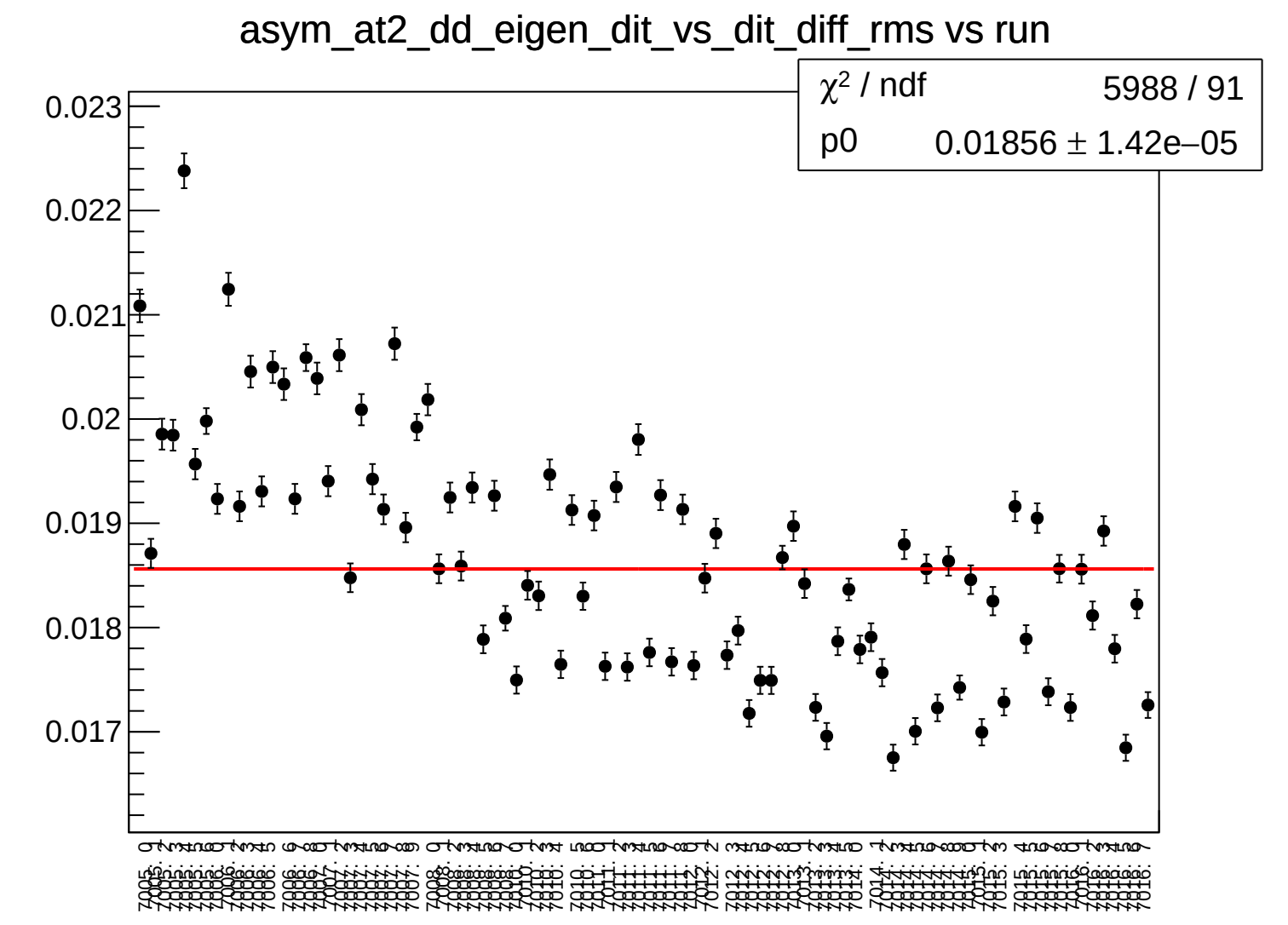

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.34 / 91
p0 0.1965 ± 0.09799
pull
Entries 92
Mean 89.91
Std Dev 0

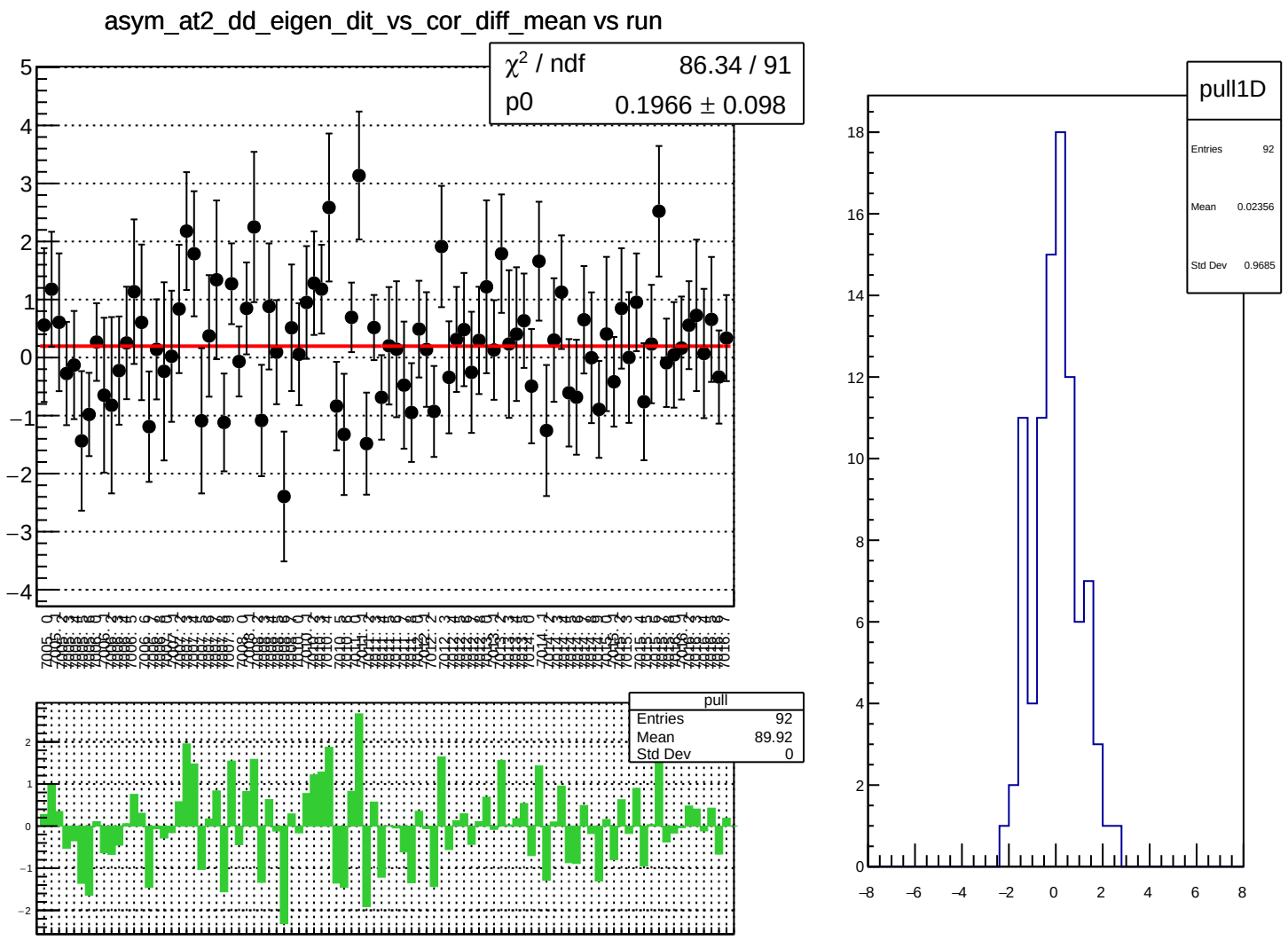

pull1D
Entries 92
Mean 0.02356
Std Dev 0.9685

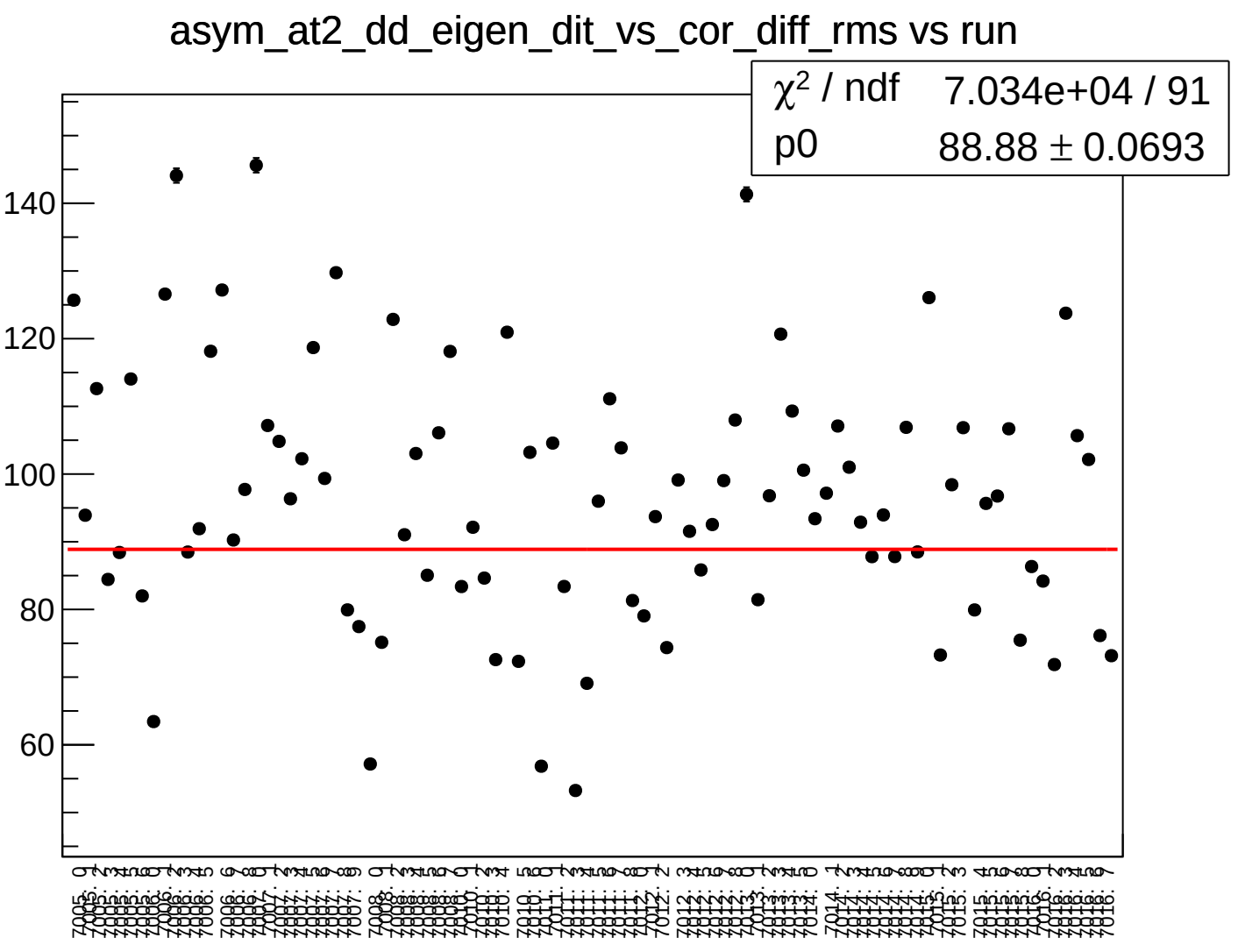

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.035e+04 / 91
p0 88.87 ± 0.06929
140
120
100
80
60

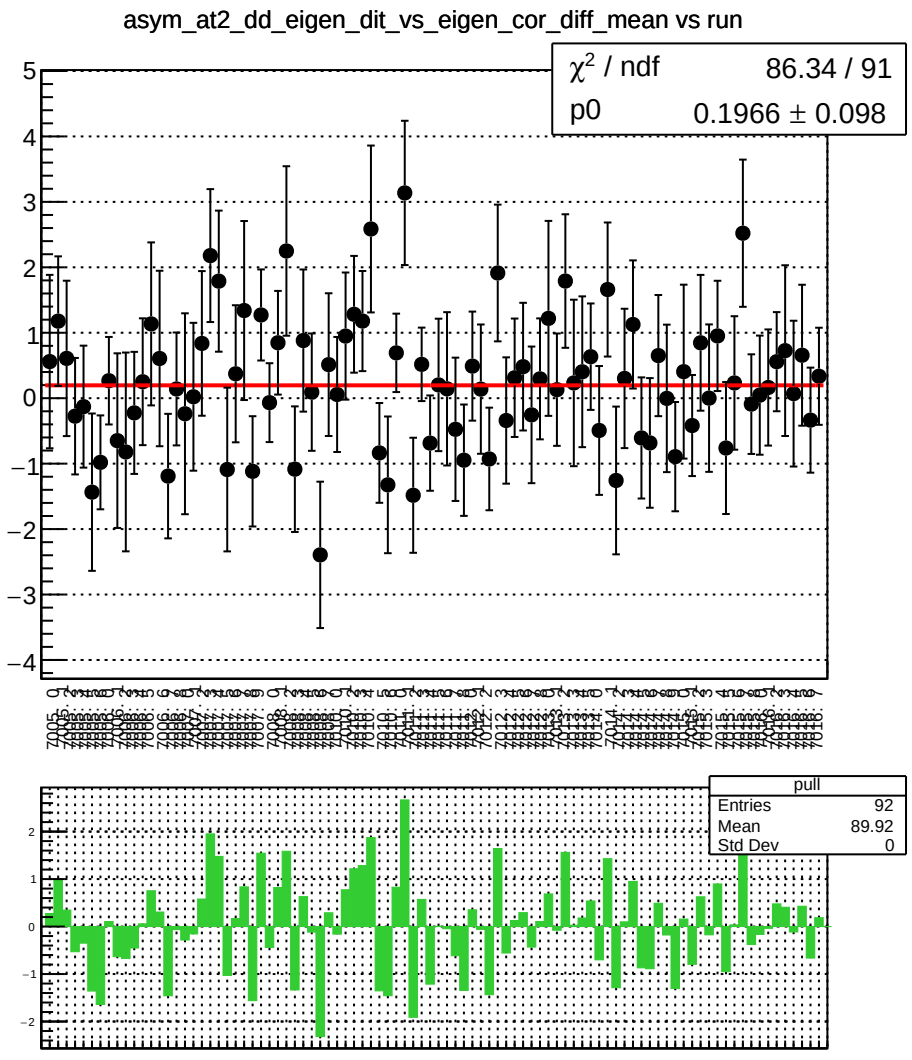

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.8 / 91
p0 9.175e−06 ± 2.008e−05
pull
Entries 92
Mean 4.136
Std Dev 71.09

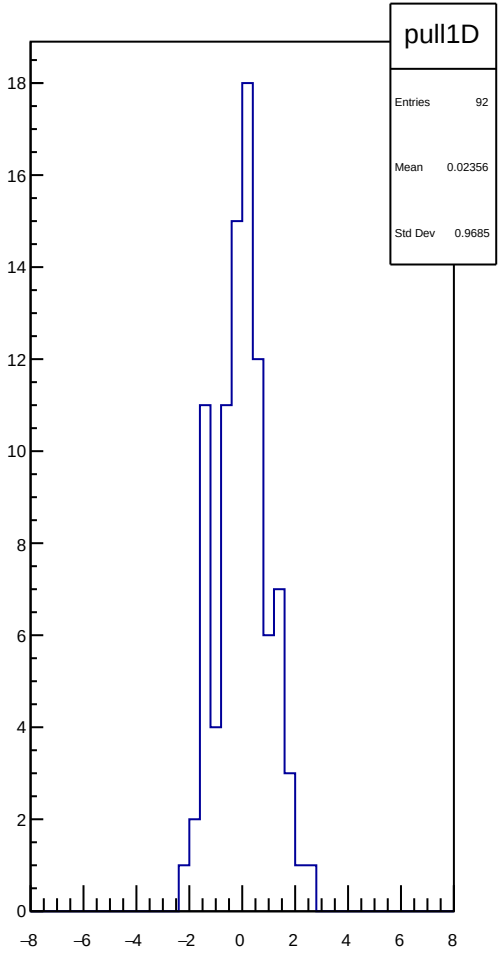

pull1D
Entries 92
Mean −0.01166
Std Dev 0.9254

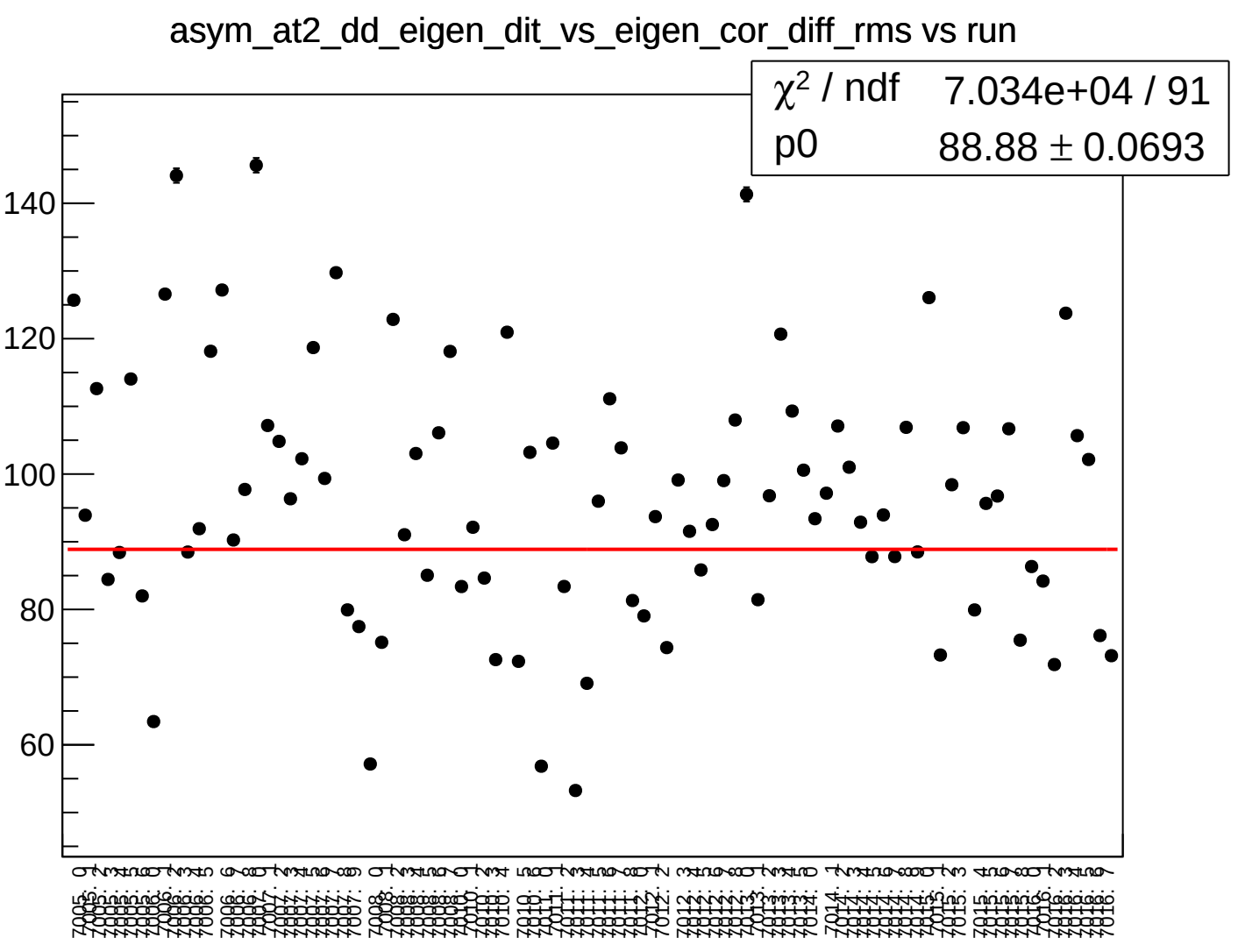

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5988 / 91
p0 0.01856 ± 1.42e−05
0.023
0.022
0.021
0.02
0.019
0.018
0.017

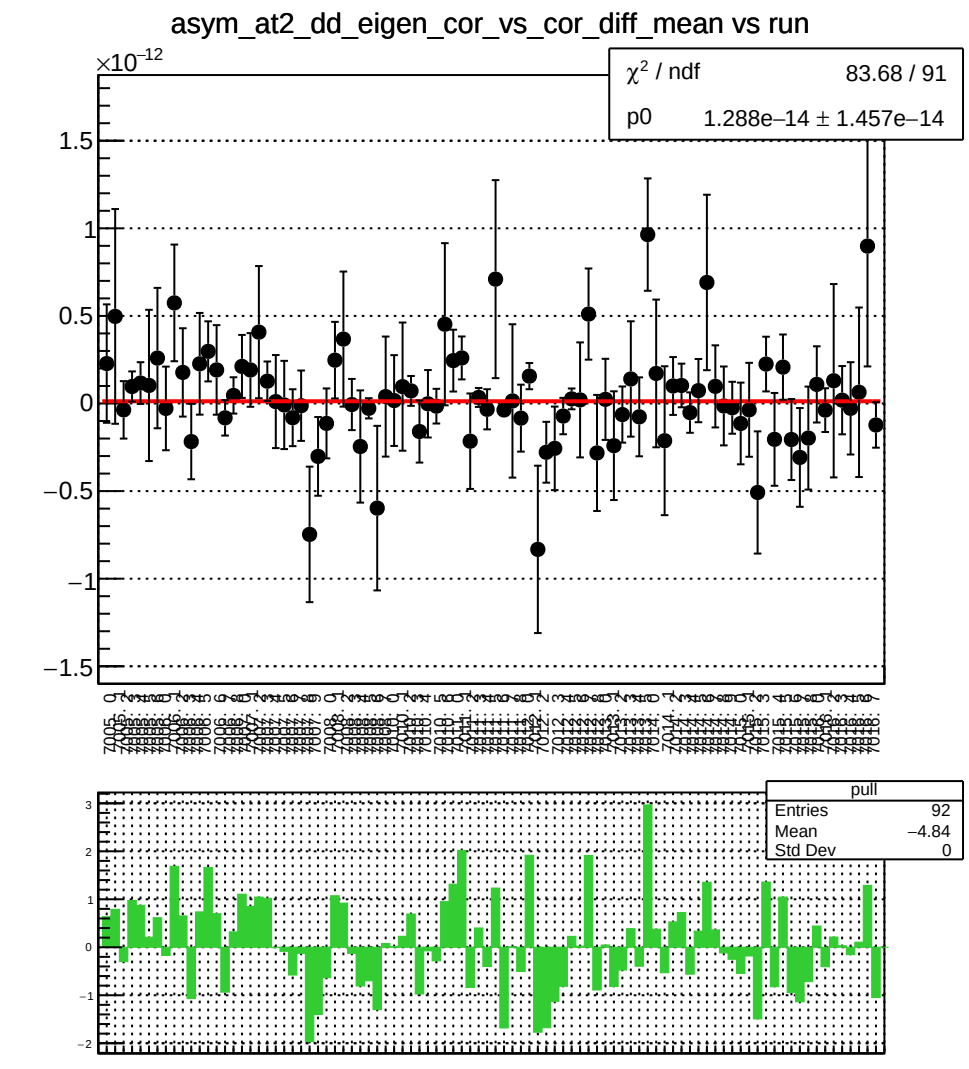

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.34 / 91
p0 0.1966 ± 0.098
pull
Entries 92
Mean 89.92
Std Dev 0
pull1D
Entries 92
Mean 0.02356
Std Dev 0.9685

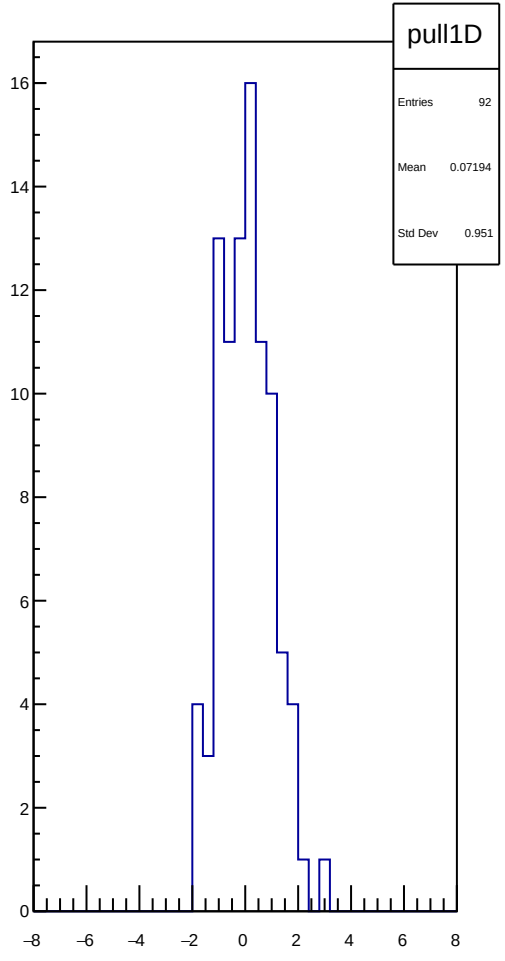

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.034e+04 / 91
p0 88.88 ± 0.0693
140
120
100
80
60

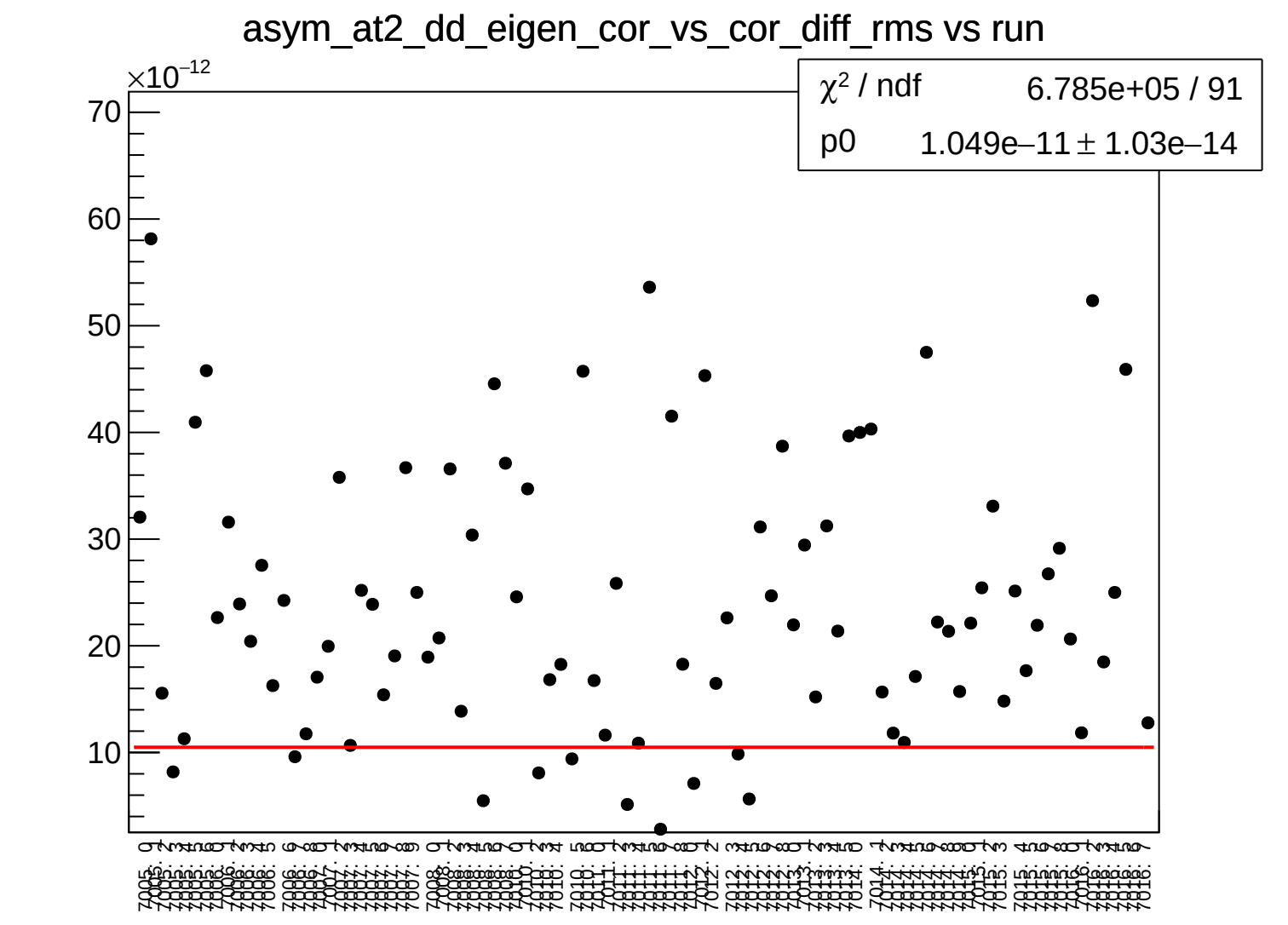

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.34 / 91
p0 0.1966 ± 0.098
pull
Entries 92
Mean 89.92
Std Dev 0

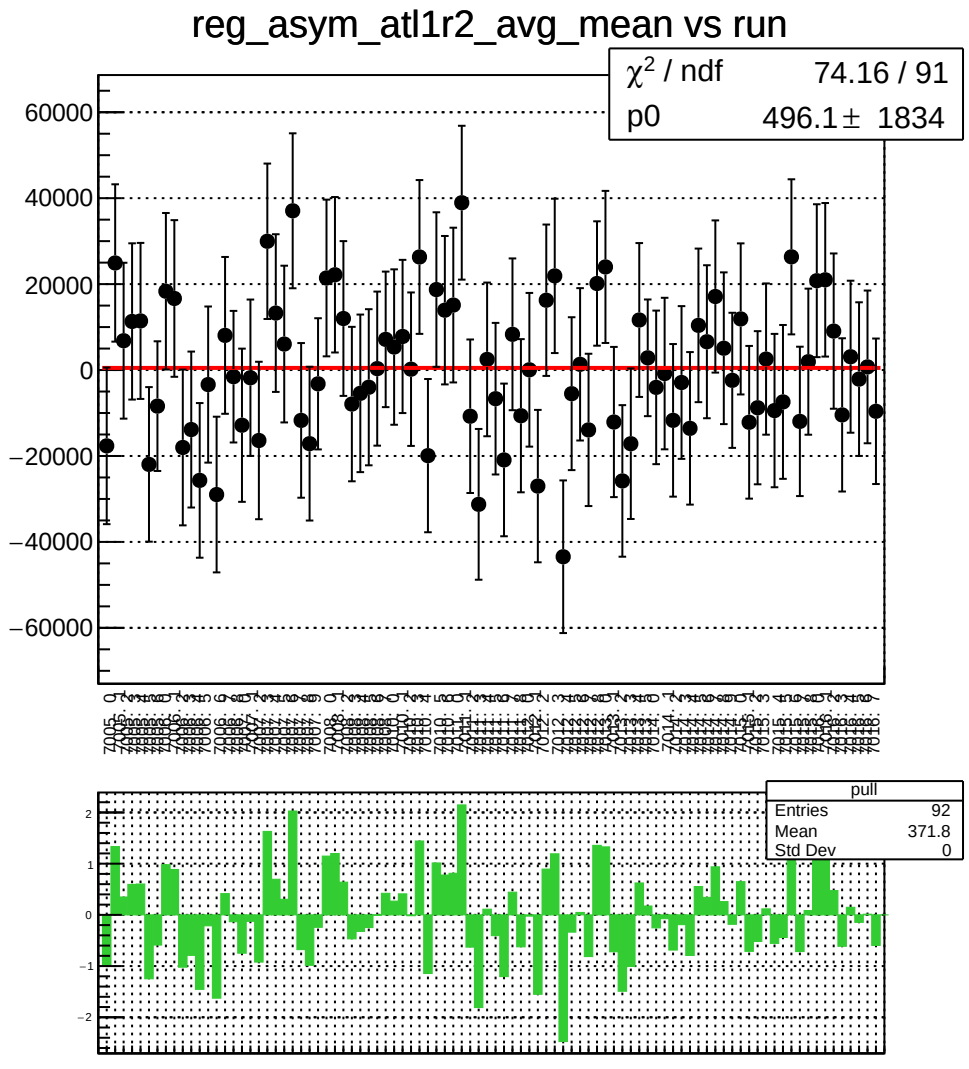

pull1D
Entries 92
Mean 0.02356
Std Dev 0.9685

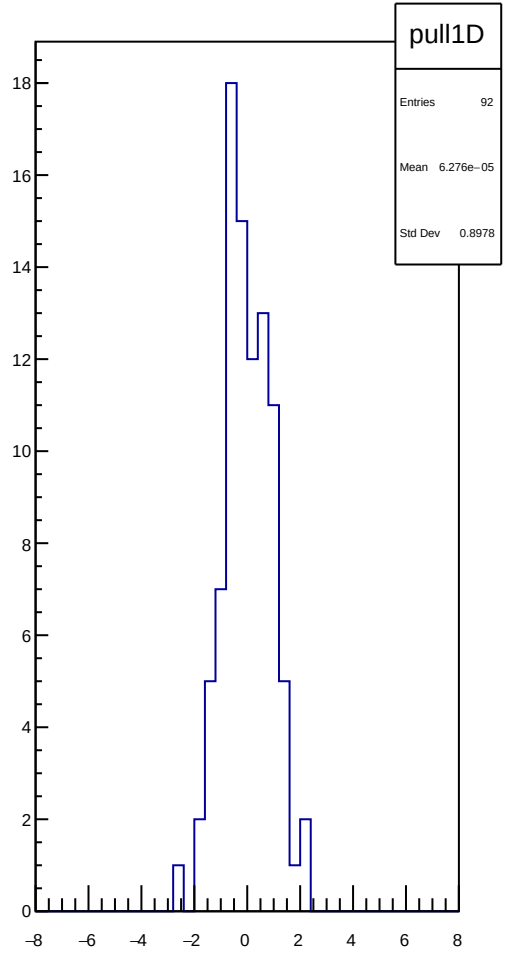

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.034e+04 / 91
p0 88.88 ± 0.0693
140
120
100
80
60

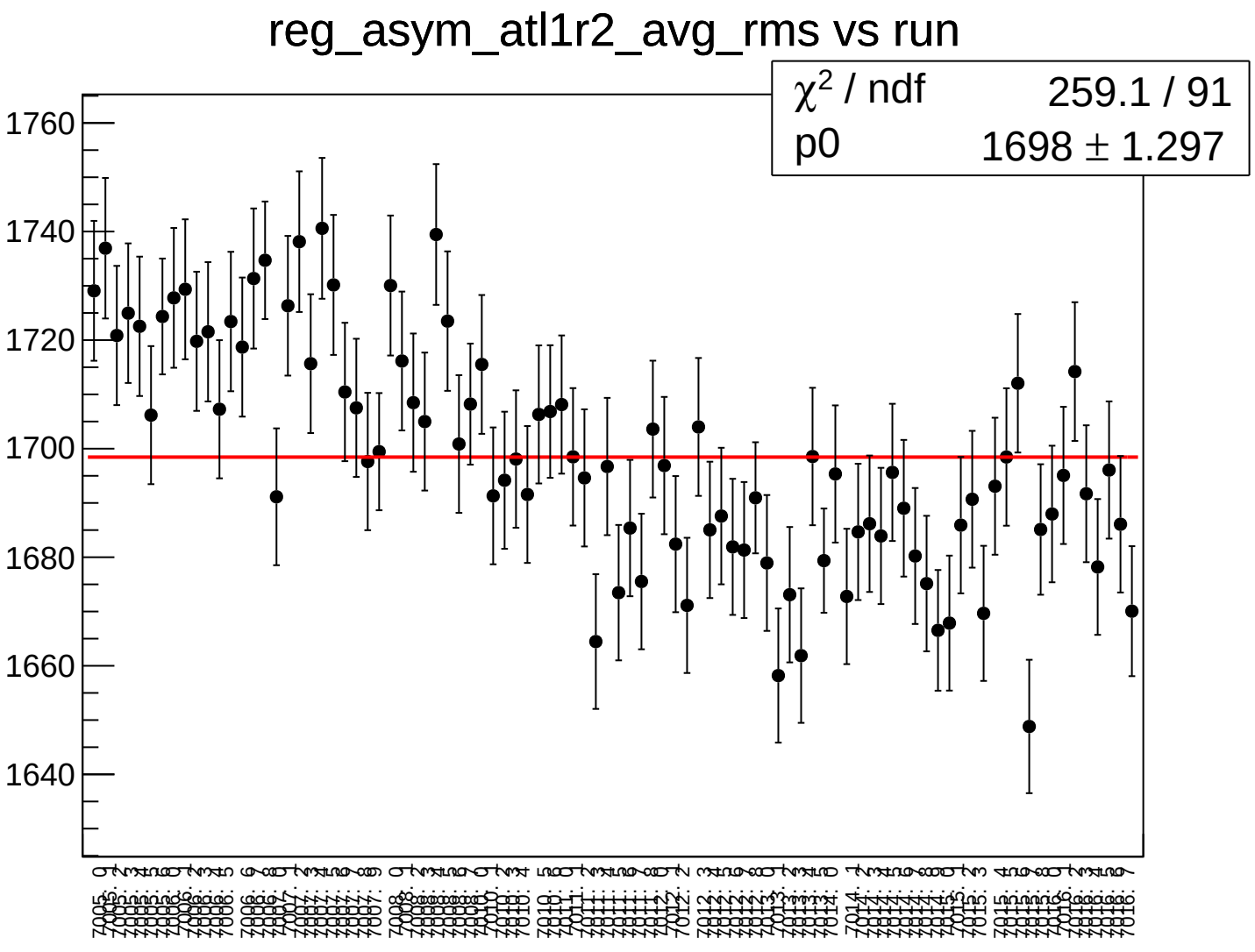

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.68 / 91
p0 1.288e−14 ± 1.457e−14
pull
Entries 92
Mean −4.84
Std Dev 0

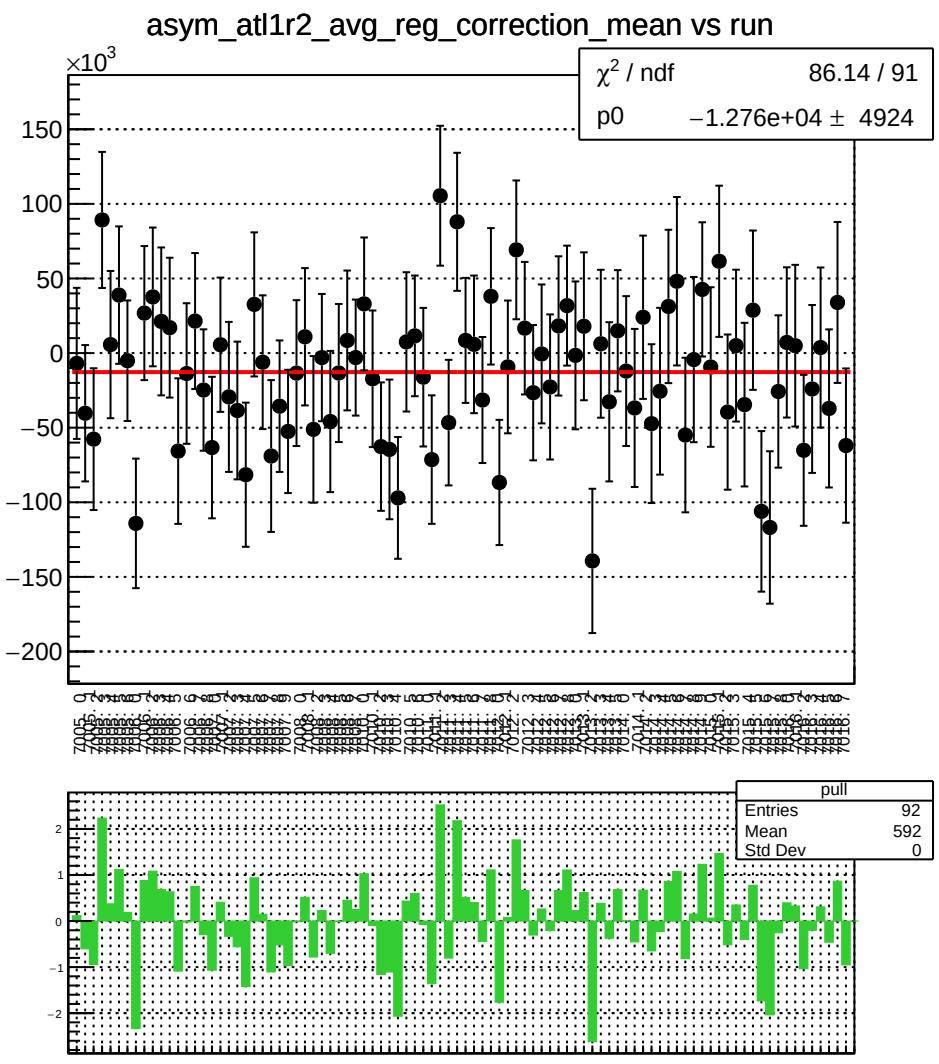

pull1D
Entries 92
Mean 0.07194
Std Dev 0.951

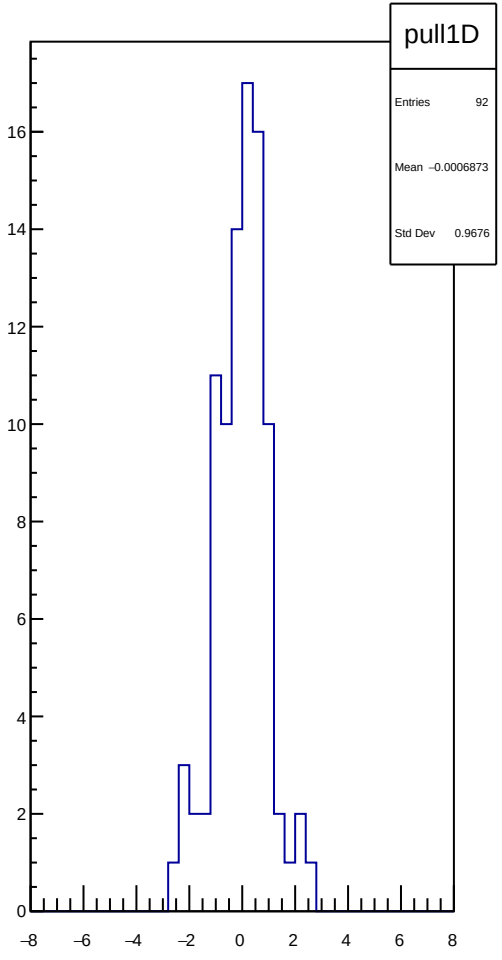

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.785e+05 / 91
p0 1.049e−11 ± 1.03e−14
70
60
50
40
30
20
10

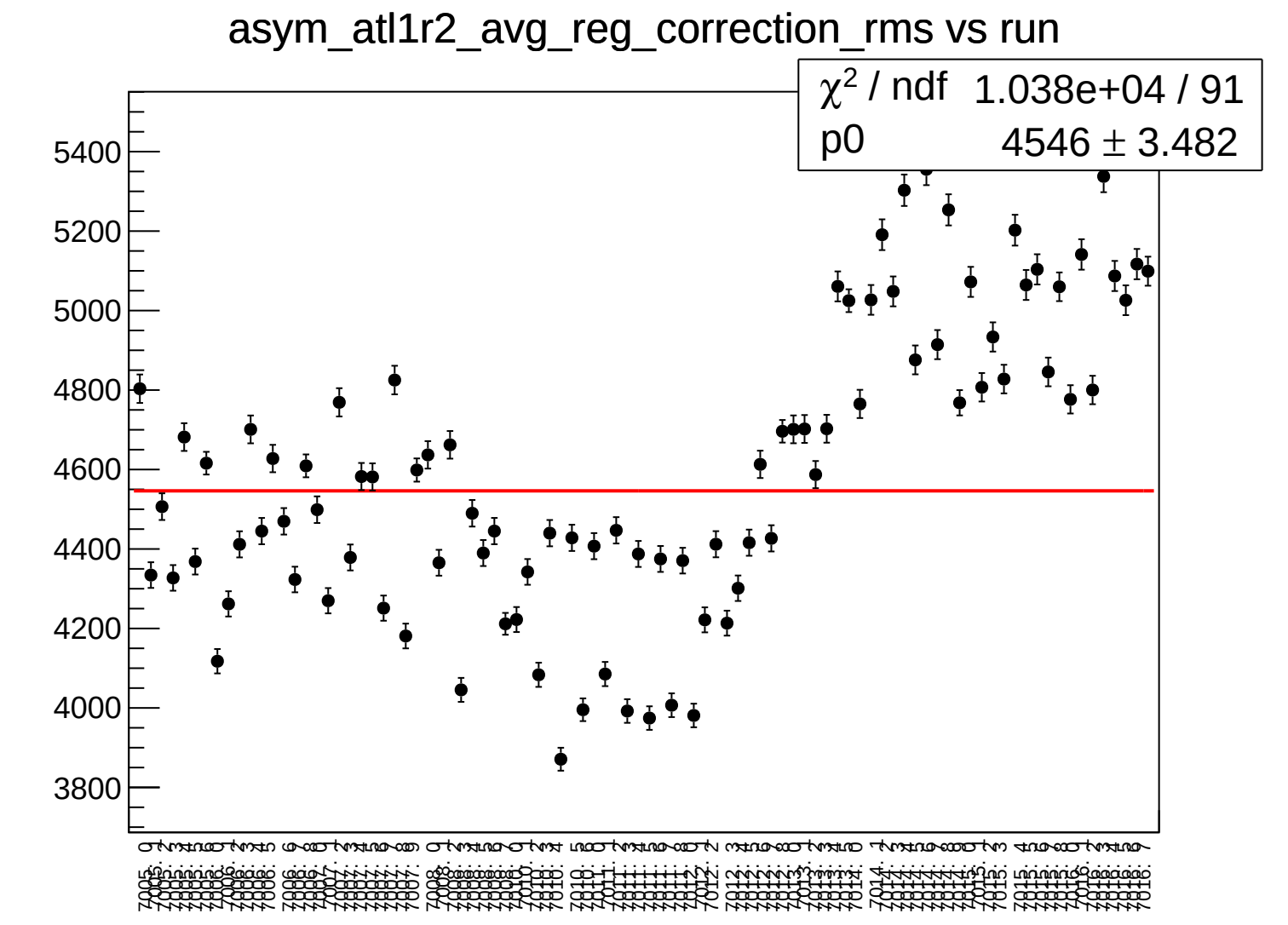

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 74.16 / 91
p0 496.1 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 371.8
Std Dev 0
2
1
0
−1
−2

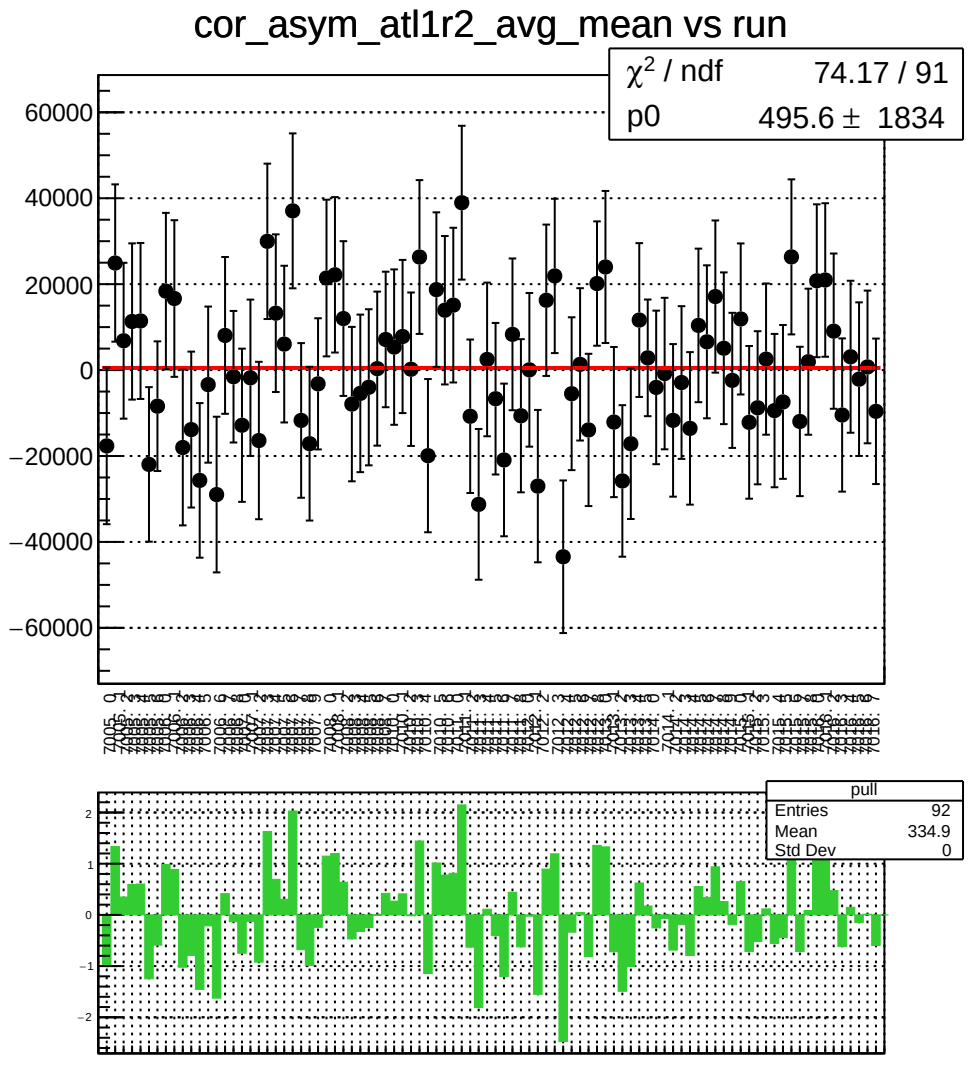

pull1D
Entries 92
Mean 6.276e−05
Std Dev 0.8978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

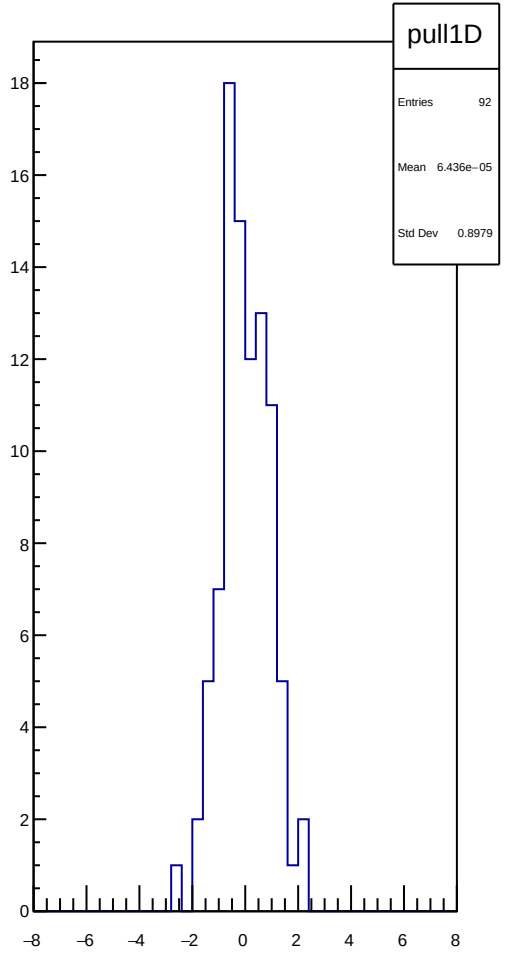

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 259.1 / 91
p0 1698 ± 1.297
1760
1740
1720
1700
1680
1660
1640

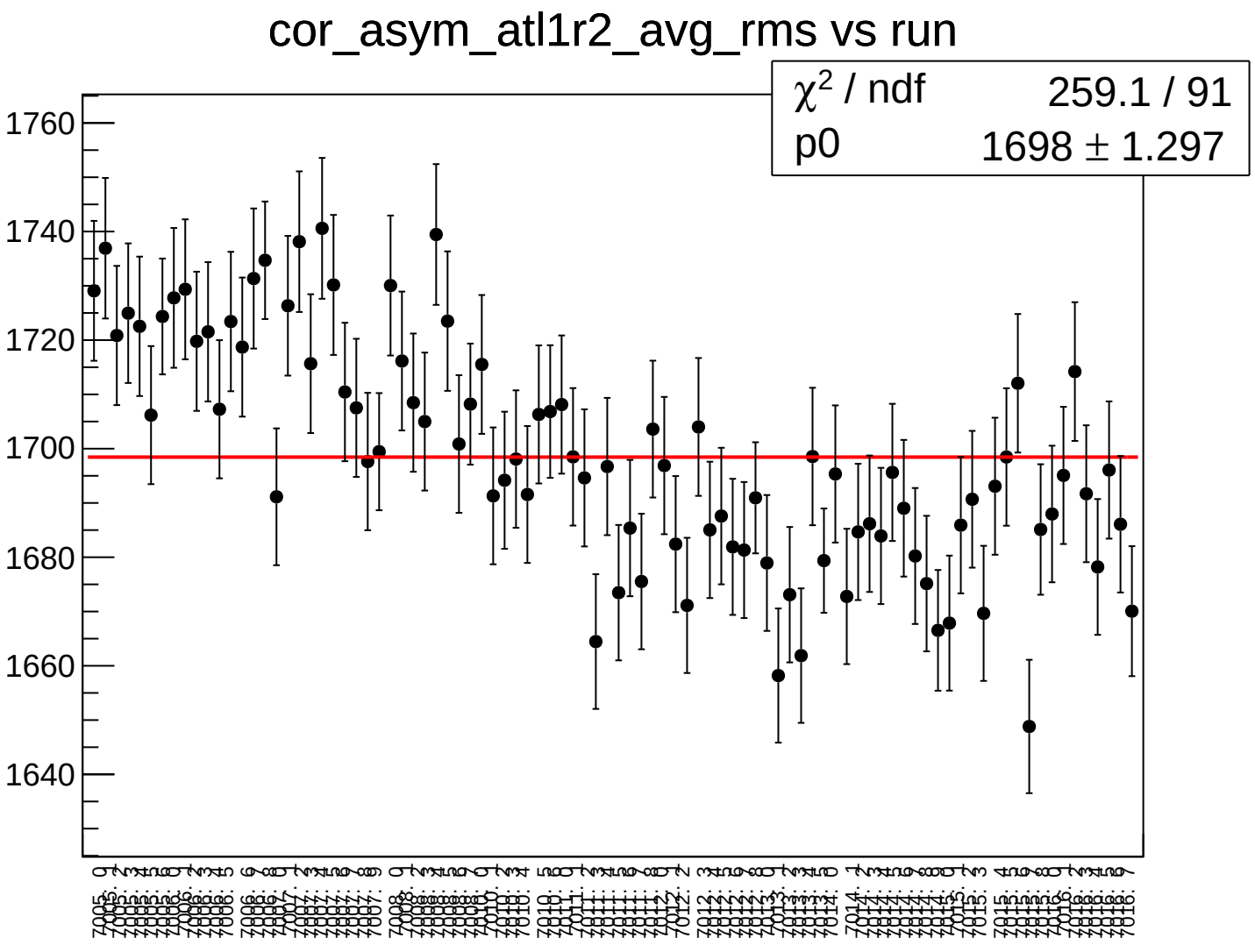

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.14 / 91
p0 −1.276e+04 ± 4924
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 592
Std Dev 0
2
1
0
−1
−2

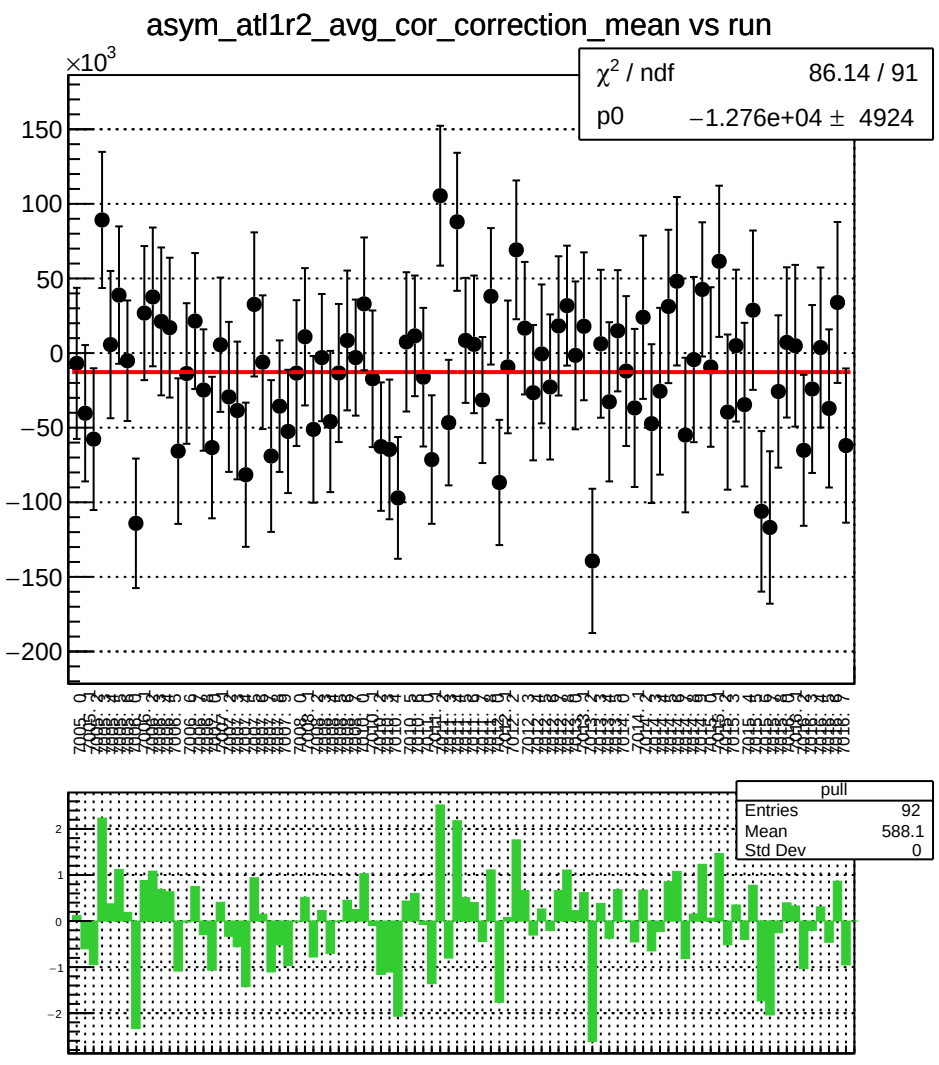

pull1D
Entries 92
Mean −0.0006873
Std Dev 0.9676
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

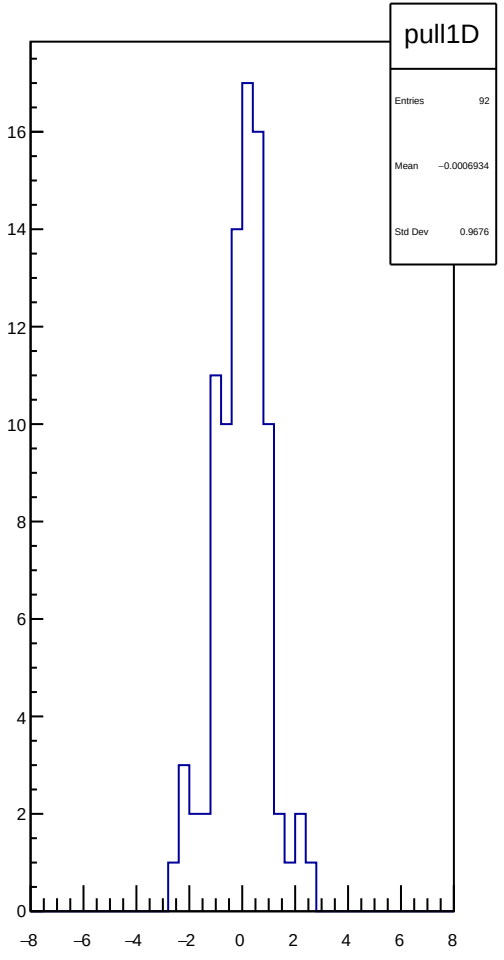

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 1.038e+04 / 91
p0 4546 ± 3.482
5400
5200
5000
4800
4600
4400
4200
4000
3800

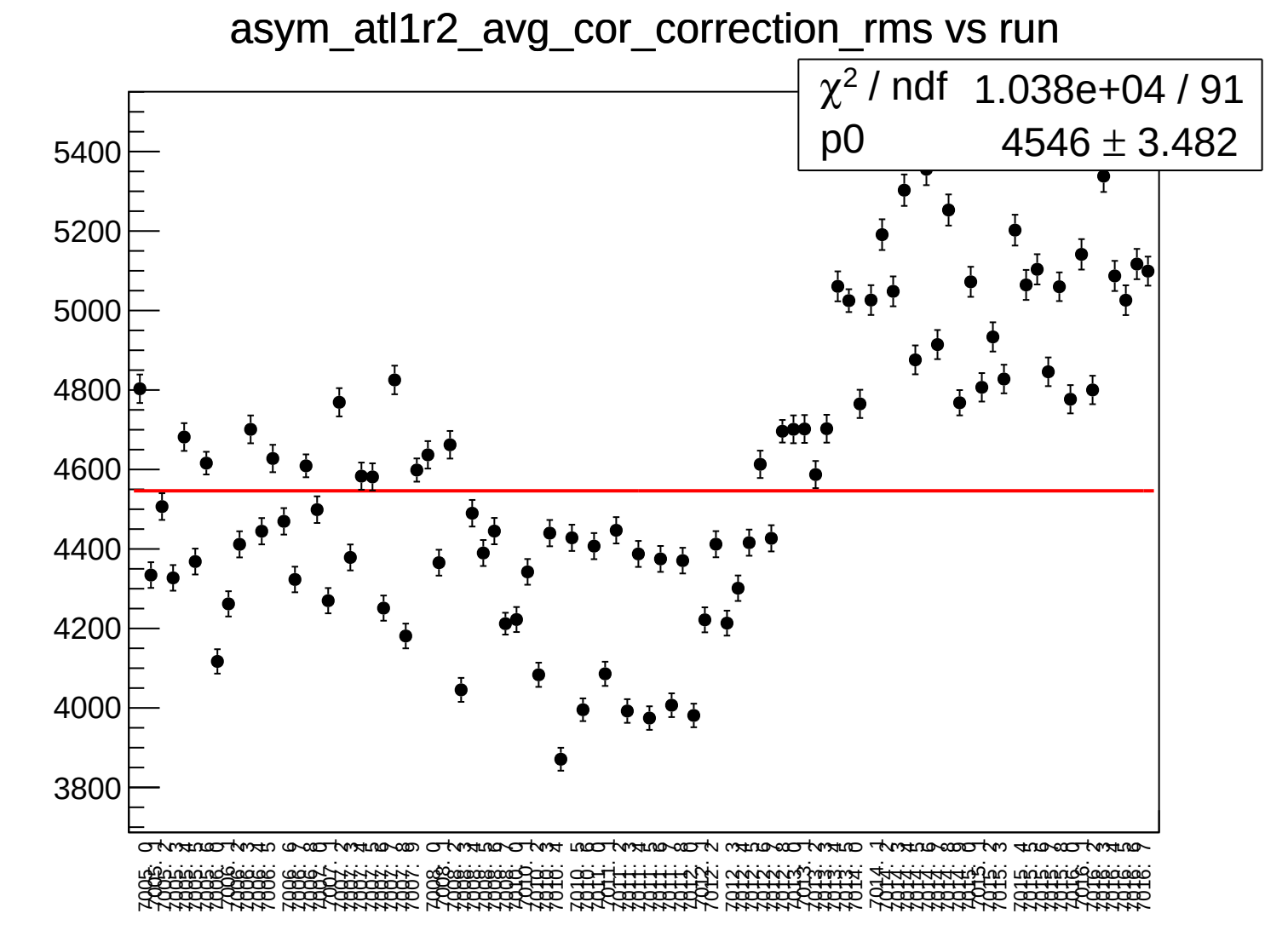

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 74.17 / 91
p0 495.6 ± 1834
pull
Entries 92
Mean 334.9
Std Dev 0

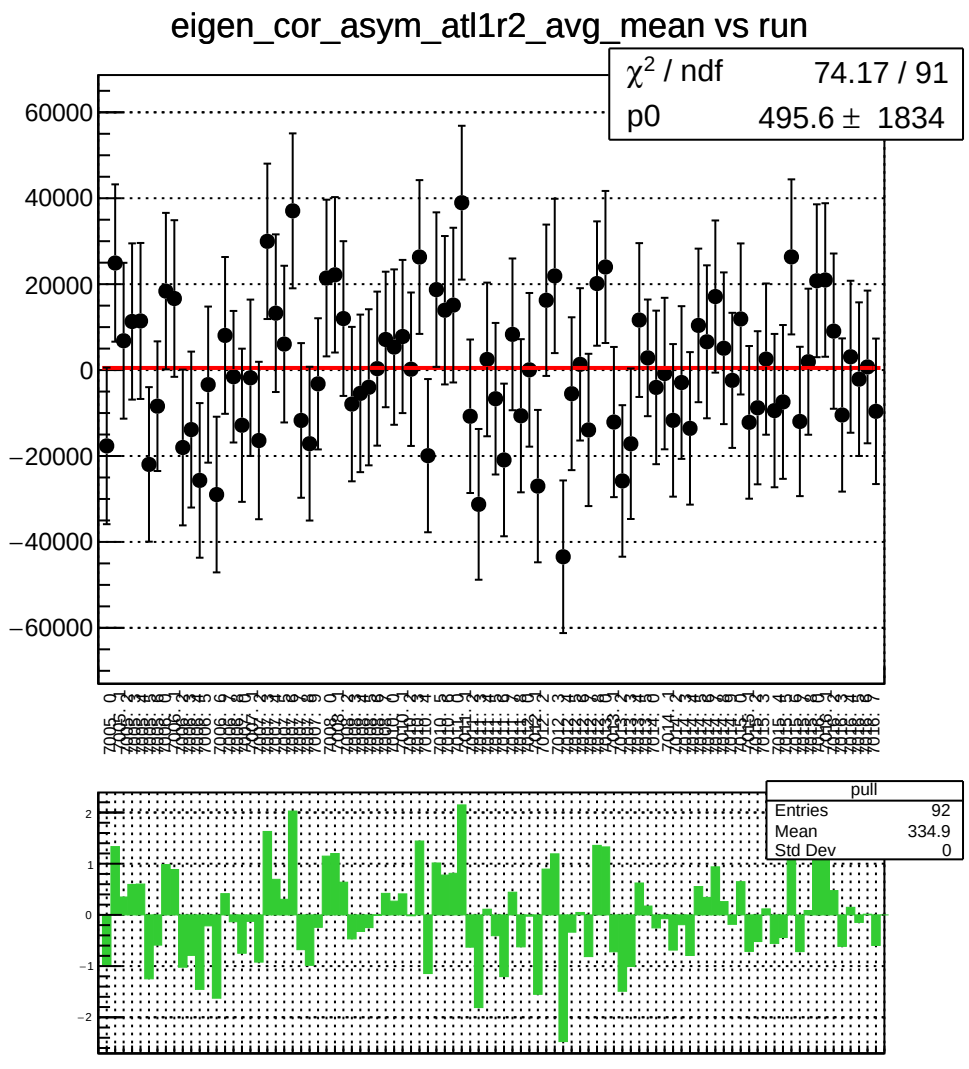

pull1D
Entries 92
Mean 6.436e−05
Std Dev 0.8979

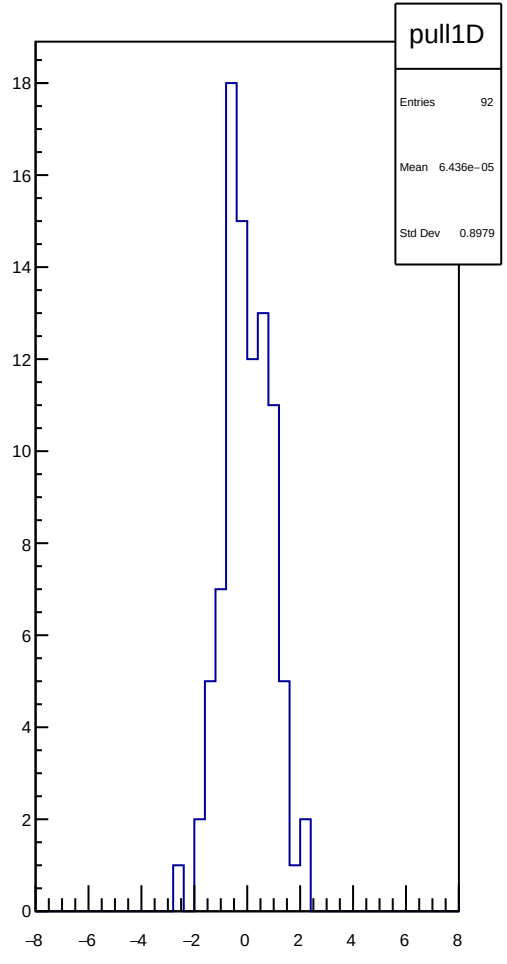

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 259.1 / 91
p0 1698 ± 1.297
1760
1740
1720
1700
1680
1660
1640

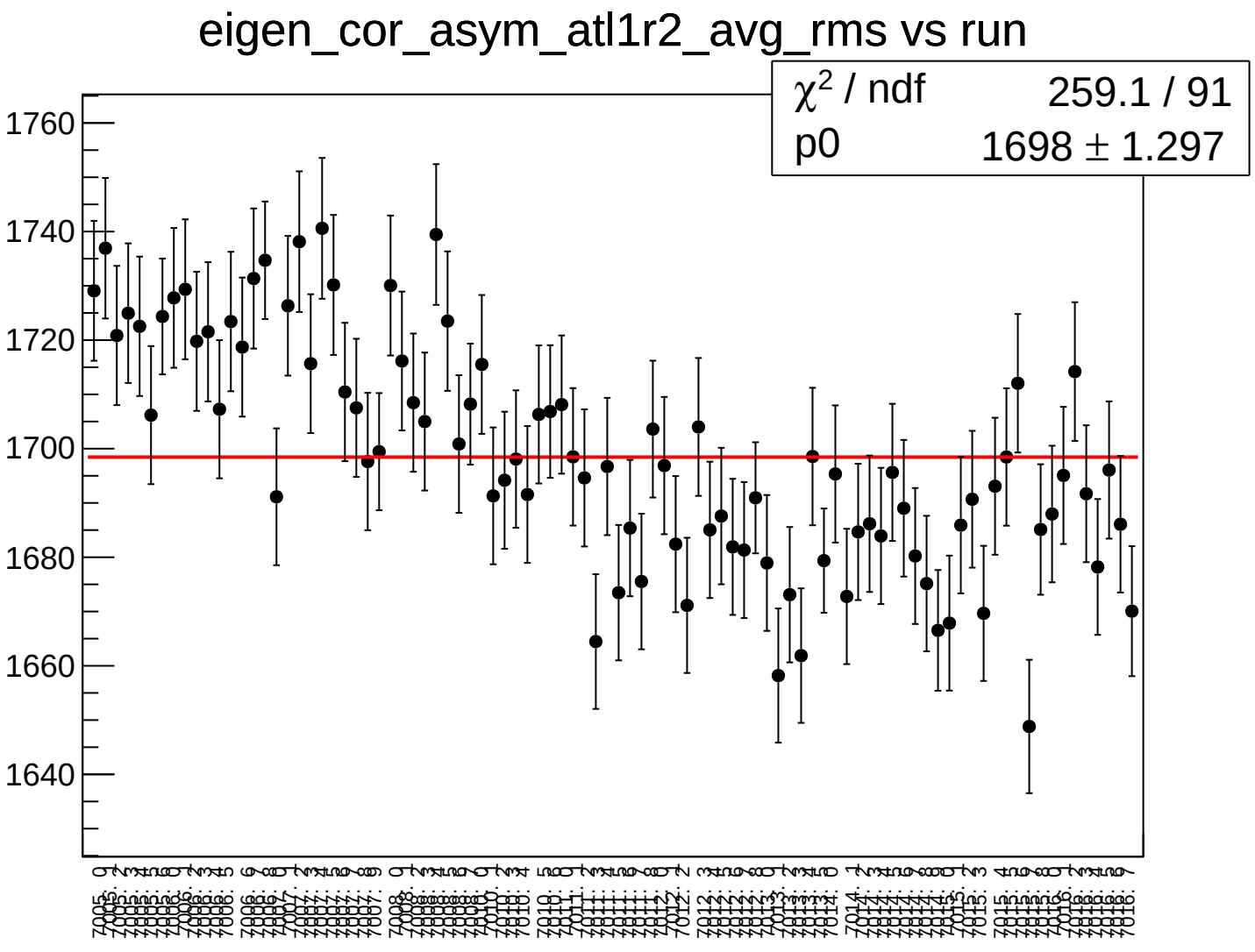

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.14 / 91
p0 −1.276e+04 ± 4924
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 588.1
Std Dev 0
2
1
0
−1
−2

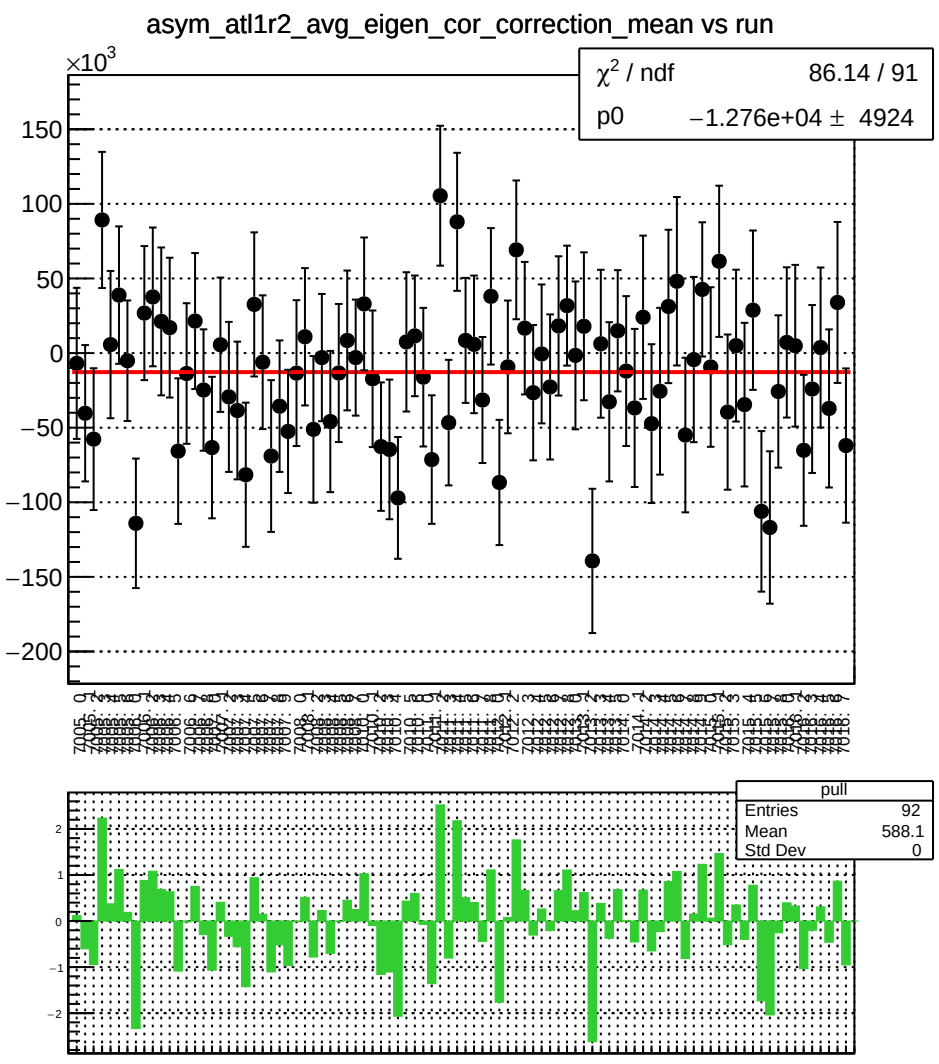

pull1D
Entries 92
Mean −0.0006934
Std Dev 0.9676
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

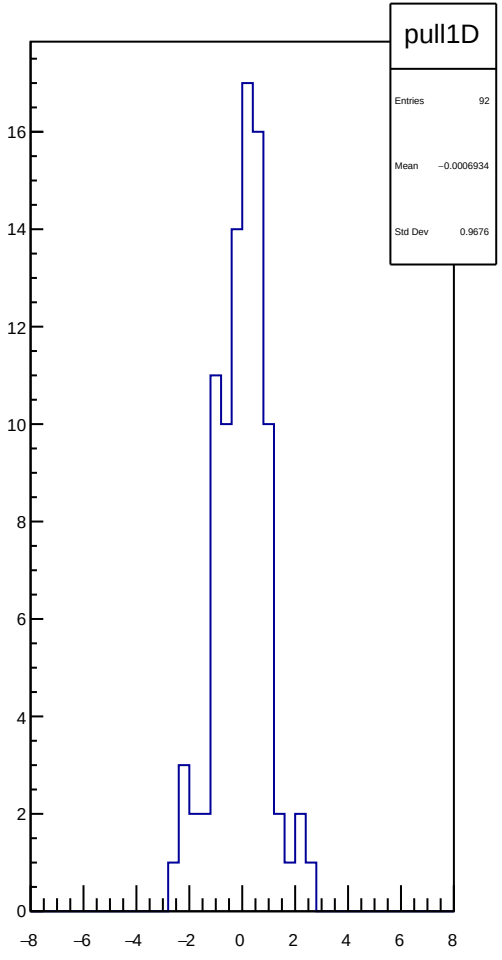

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 1.038e+04 / 91
p0 4546 ± 3.482
5400
5200
5000
4800
4600
4400
4200
4000
3800

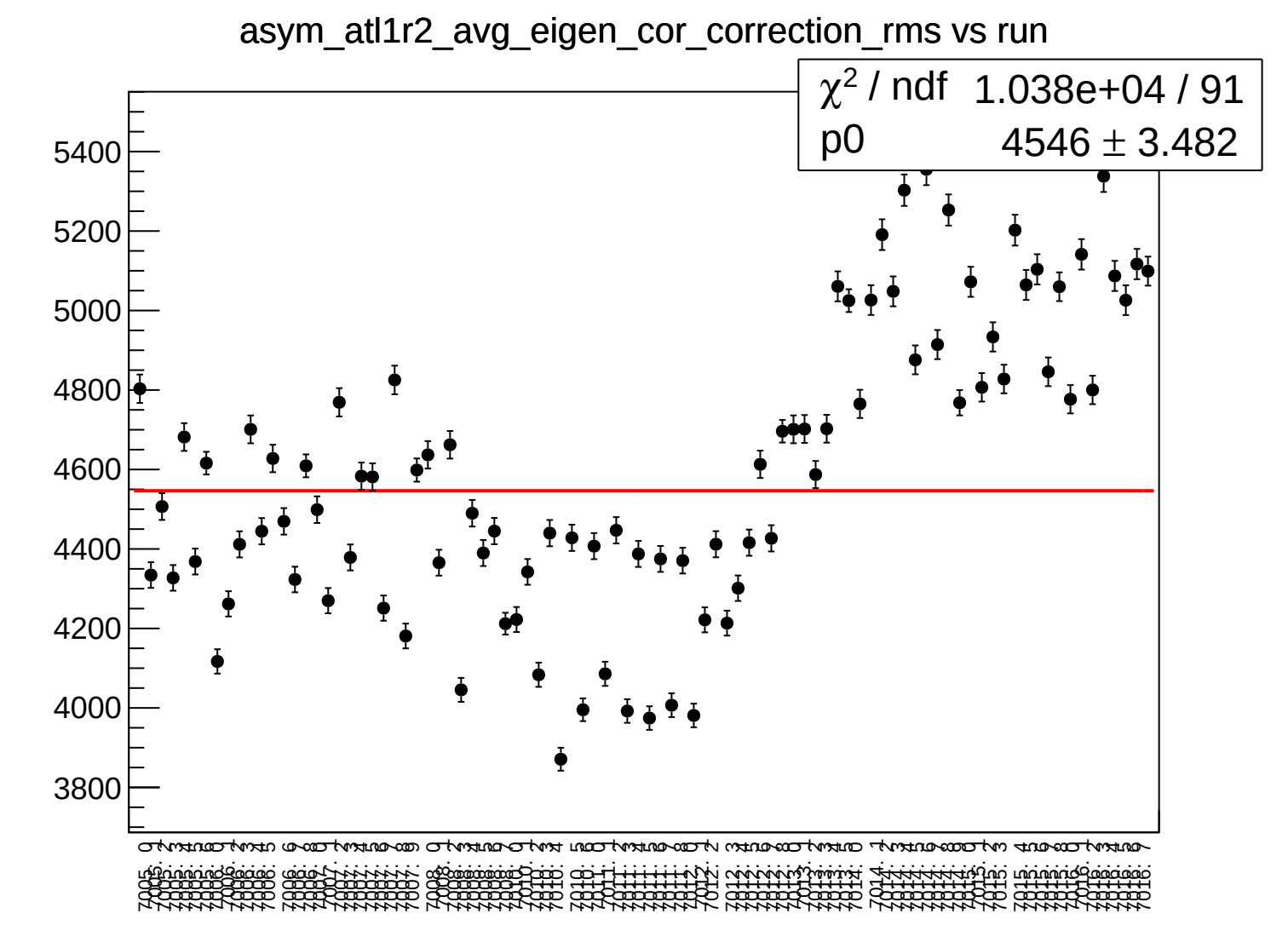

eigen_cor_asym_atl1r2_avg_mean vs run
$\chi^2$ / ndf 74.17 / 91
p0 495.6 ± 1834
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 334.9
Std Dev 0
2
1
0
−1
−2

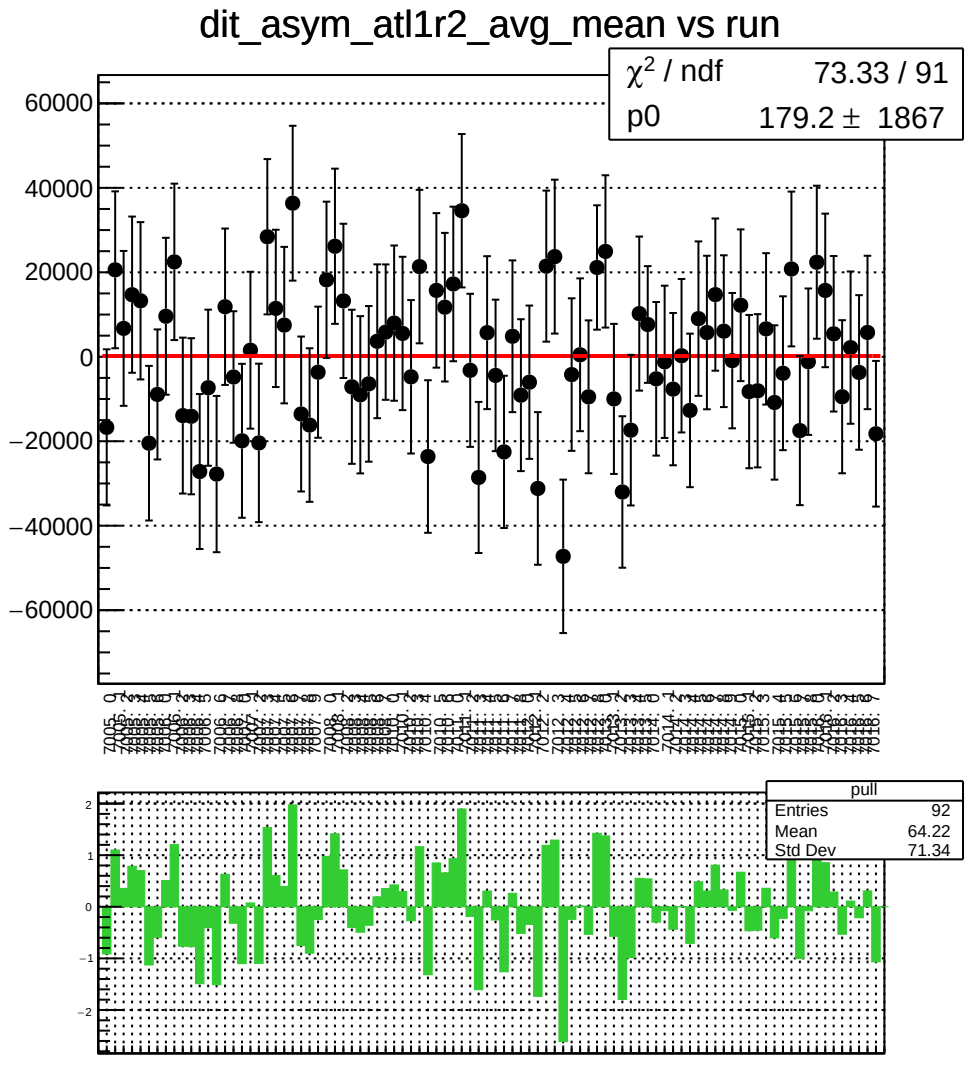

pull1D
Entries 92
Mean 6.436e−05
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

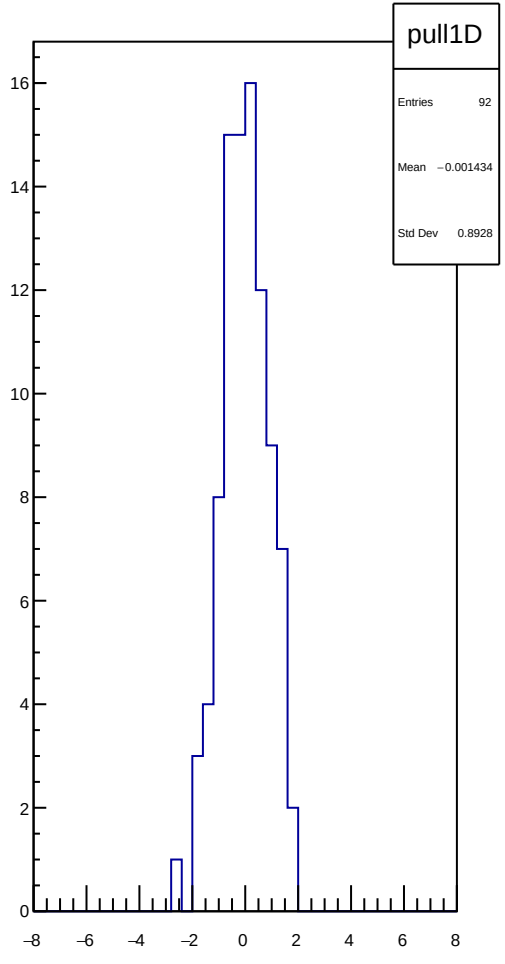

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 259.1 / 91
p0 1698 ± 1.297
1760
1740
1720
1700
1680
1660
1640

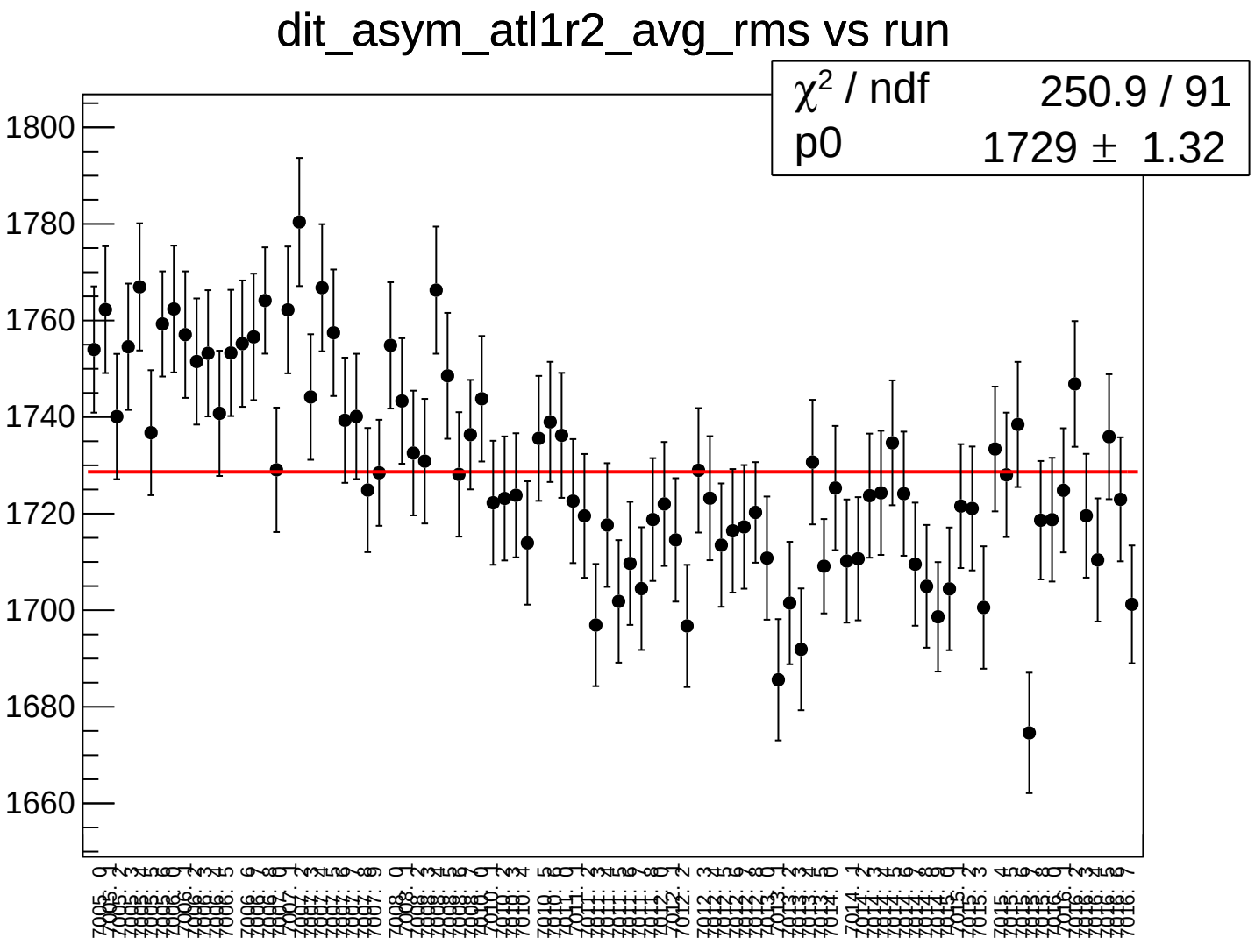

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.14 / 91
p0 −1.276e+04 ± 4924
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 588.1
Std Dev 0
2
1
0
−1
−2

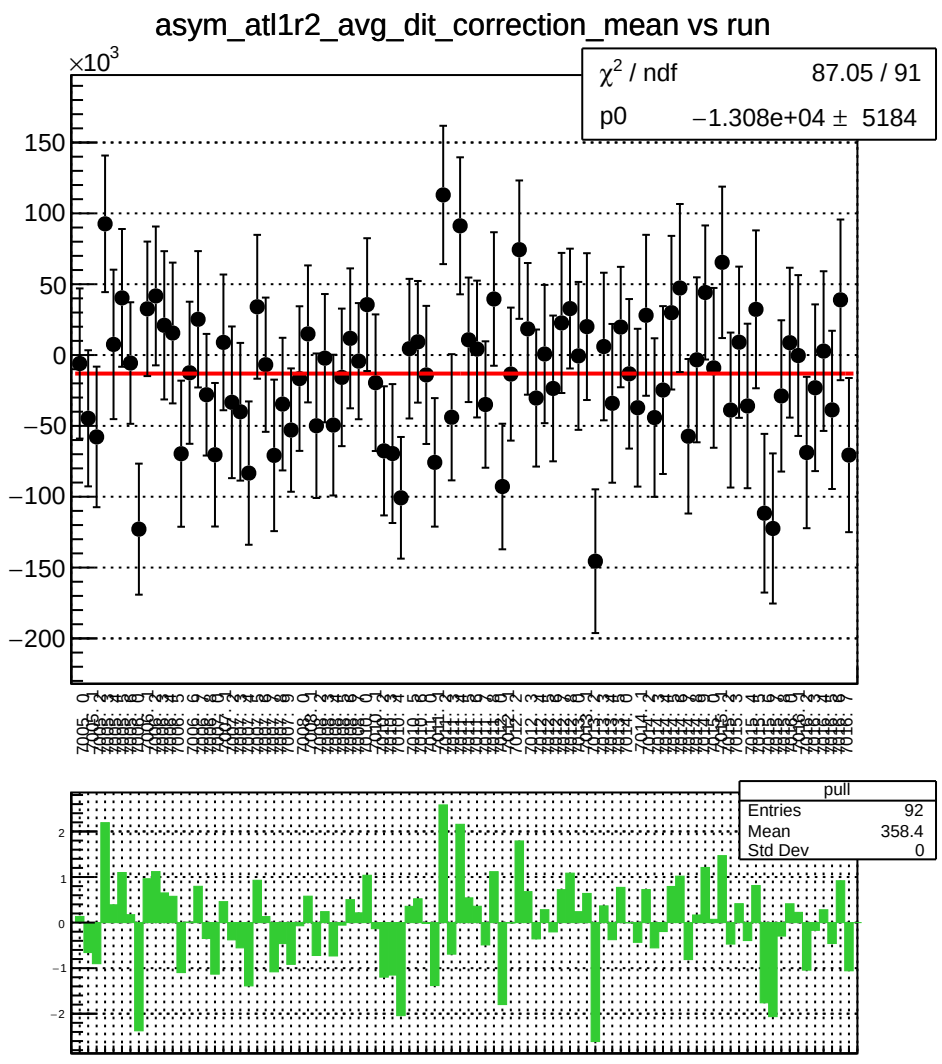

pull1D
Entries 92
Mean −0.0006934
Std Dev 0.9676
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

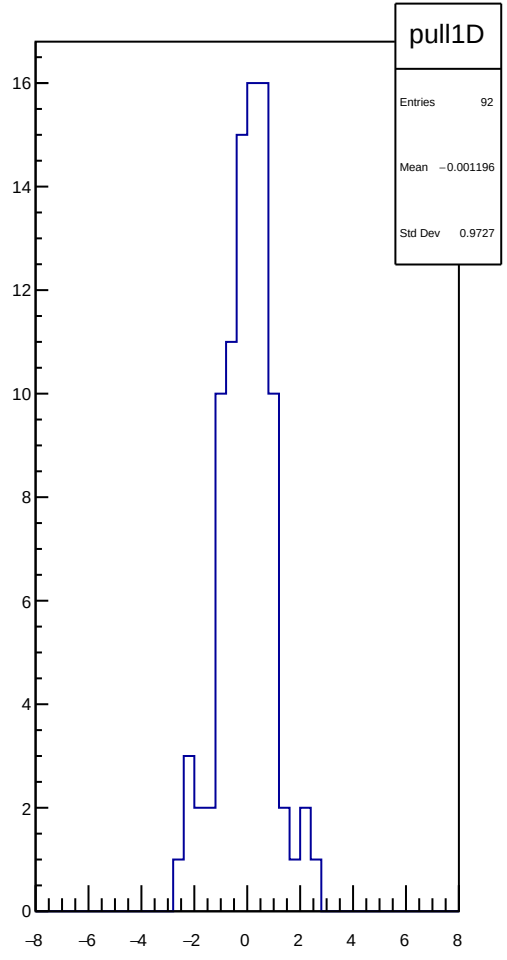

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.038e+04 / 91
p0 4546 ± 3.482
5400
5200
5000
4800
4600
4400
4200
4000
3800

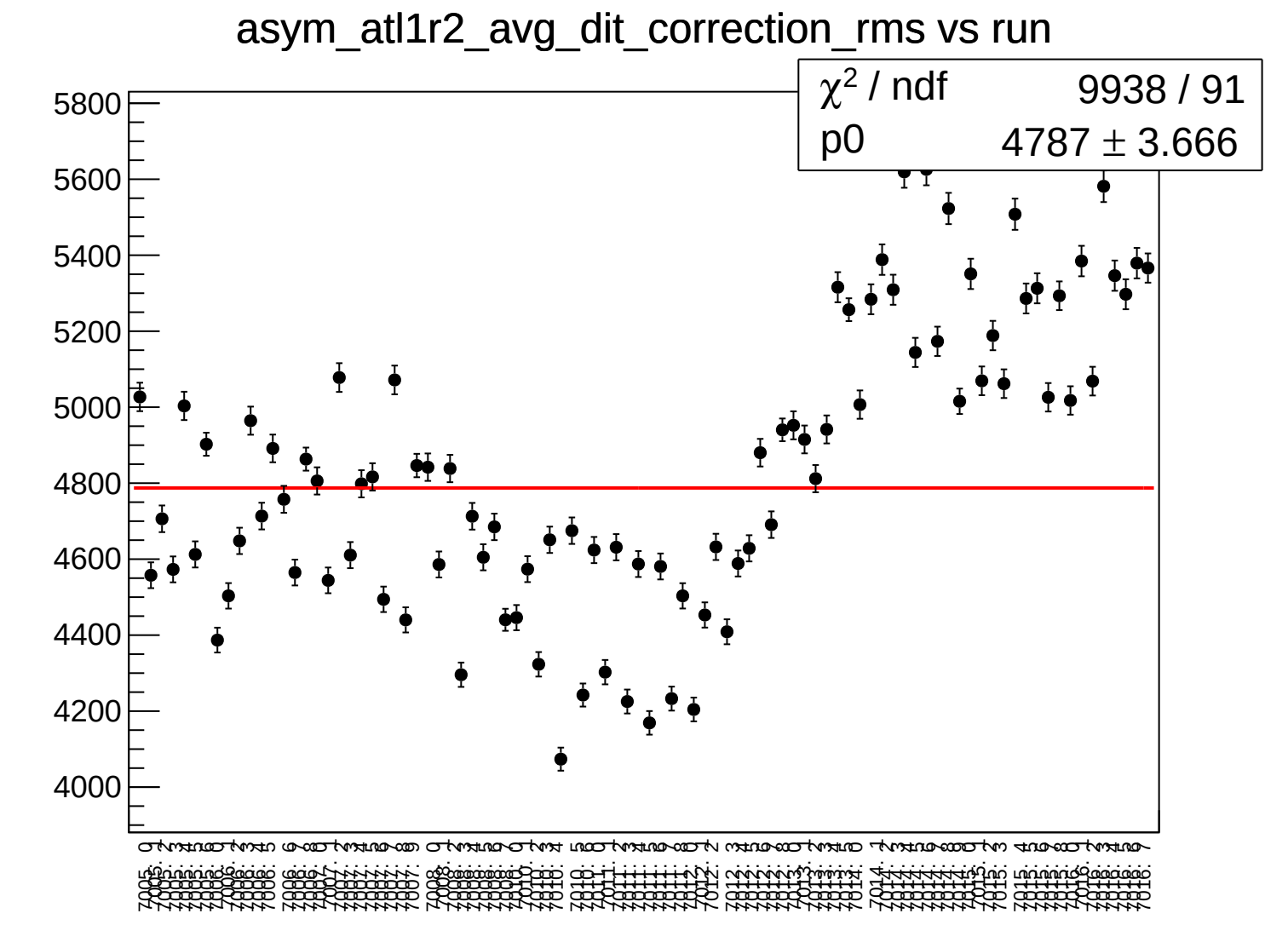

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 73.33 / 91
p0 179.2 ± 1867
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 64.22
Std Dev 71.34
2
1
0
−1
−2

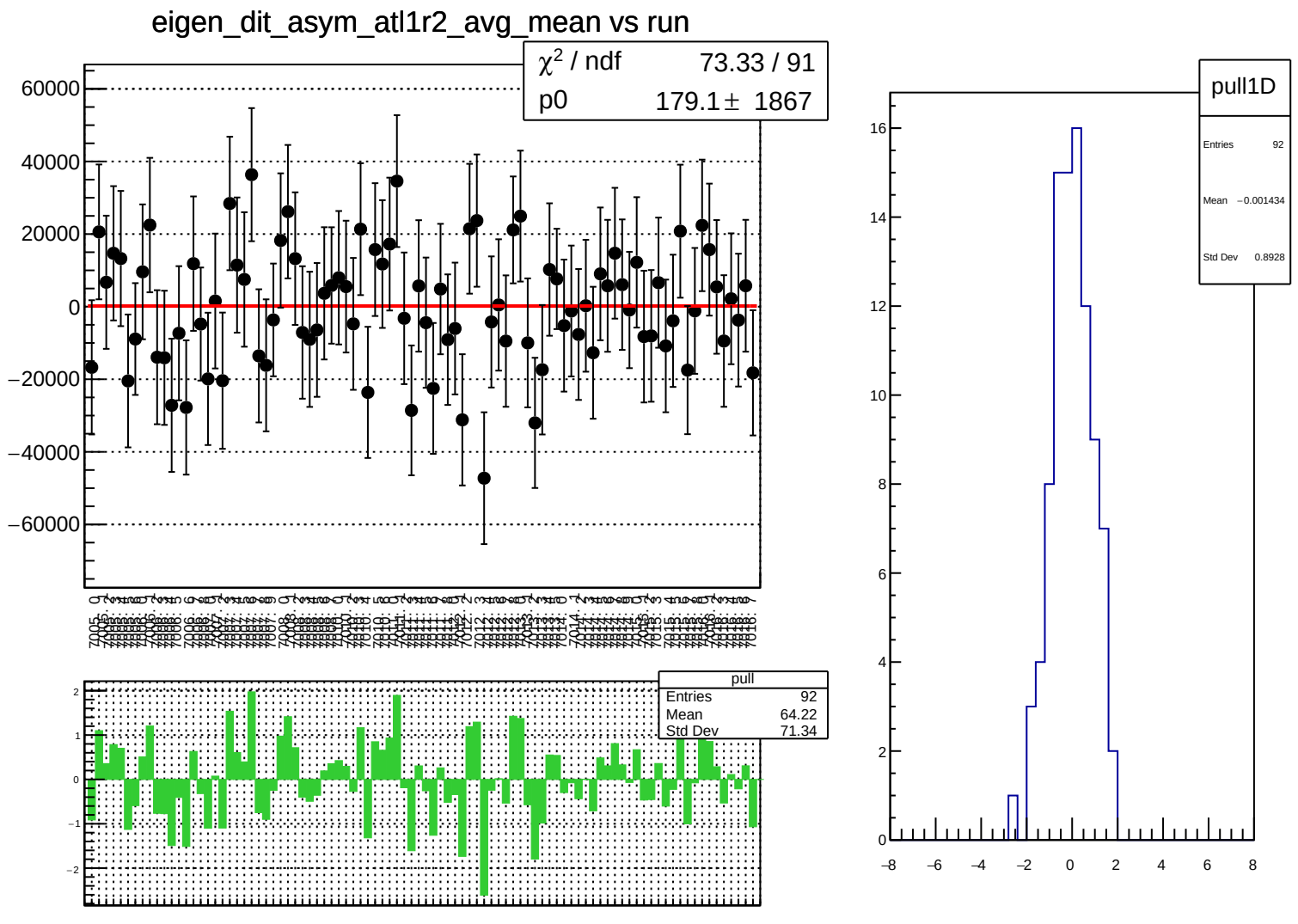

pull1D
Entries 92
Mean −0.001434
Std Dev 0.8928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

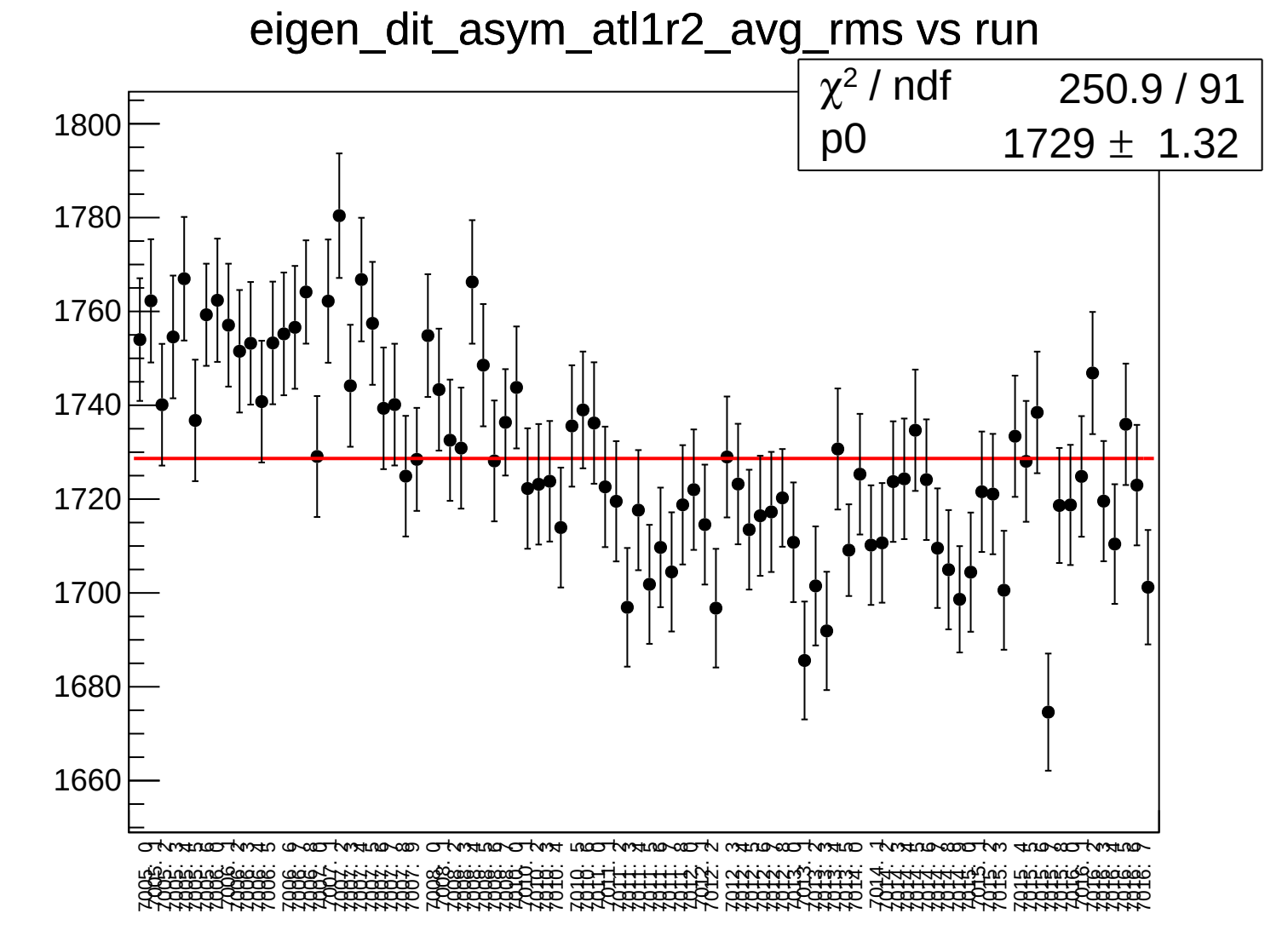

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 250.9 / 91
p0 1729 ± 1.32
1800
1780
1760
1740
1720
1700
1680
1660

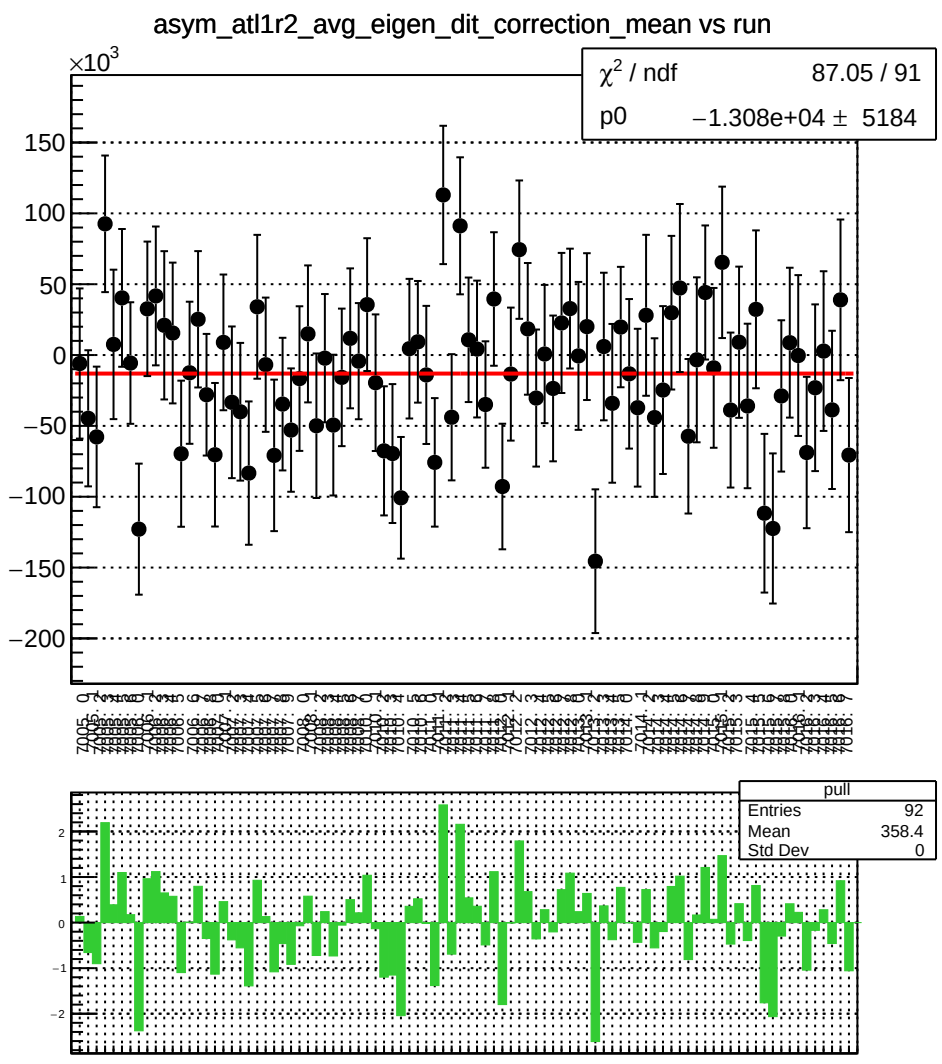

asym_atl1r2_avg_dit_correction_mean vs run
$\chi^2$ / ndf 87.05 / 91
p0 −1.308e+04 ± 5184
×10^3
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 358.4
Std Dev 0
2
1
0
−1
−2

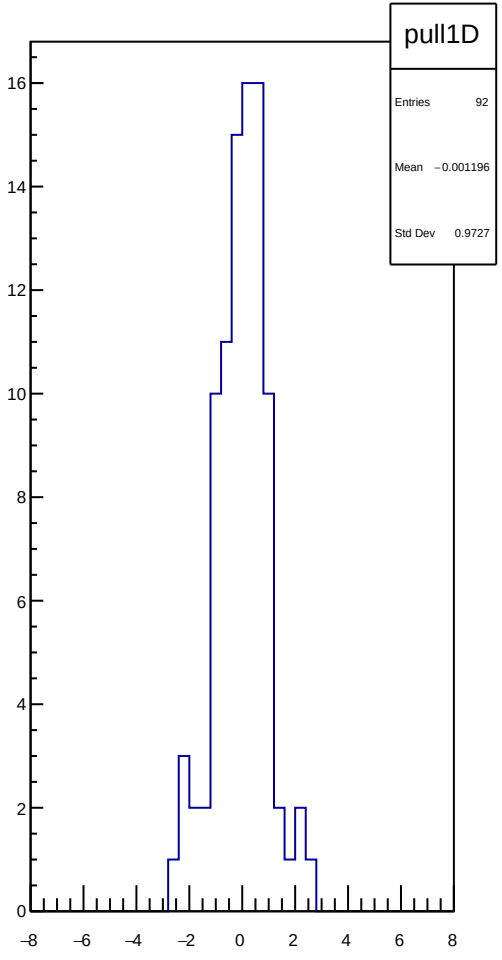

pull1D
Entries 92
Mean −0.001196
Std Dev 0.9727
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

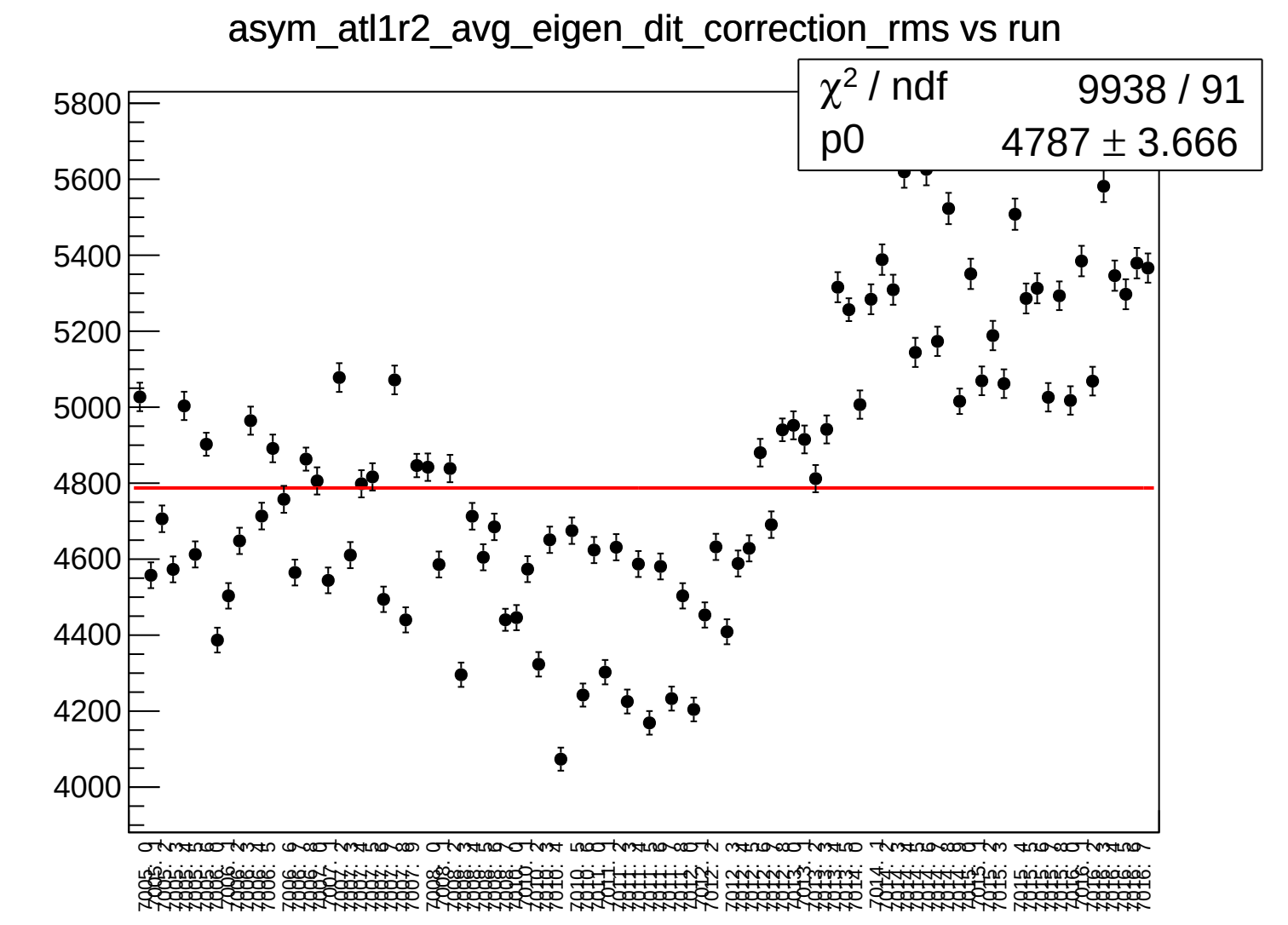

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 9938 / 91
p0 4787 ± 3.666
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

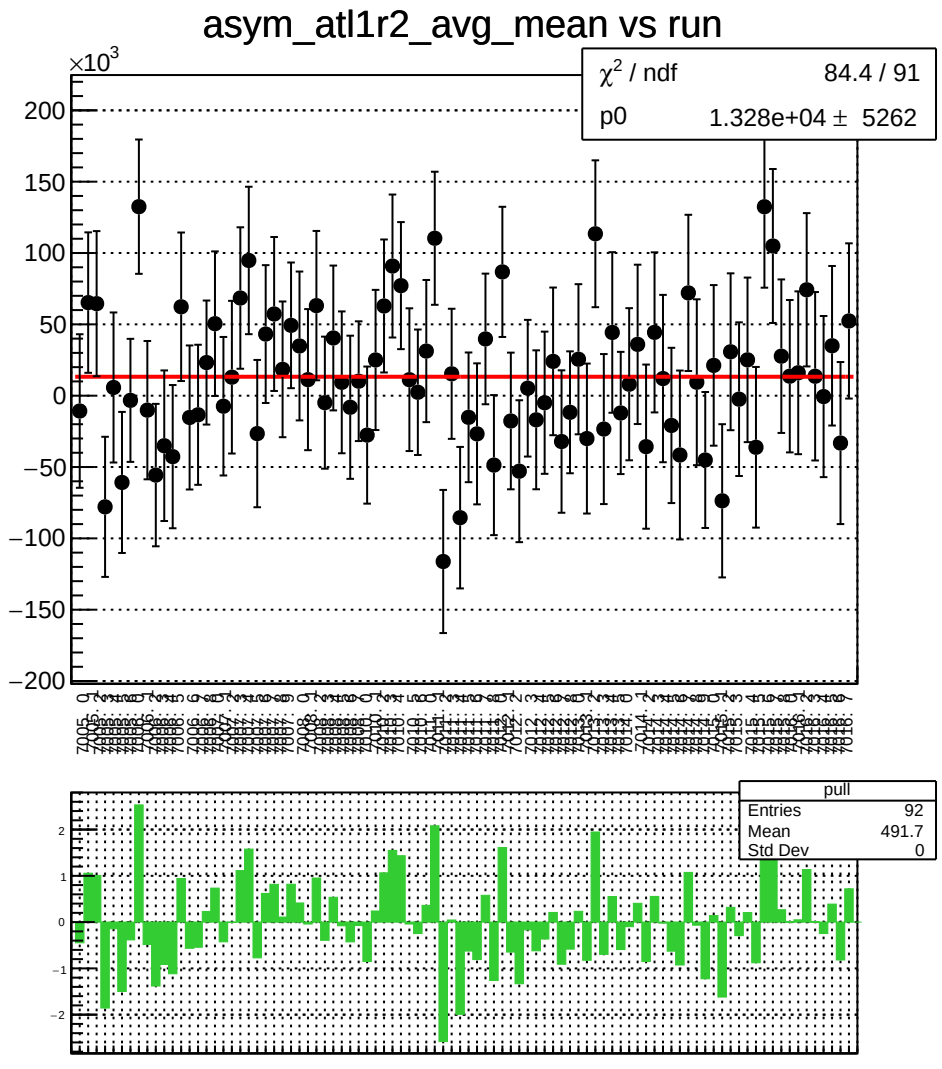

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 73.33 / 91
p0 179.1 ± 1867
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 64.22
Std Dev 71.34
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001434
Std Dev 0.8928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

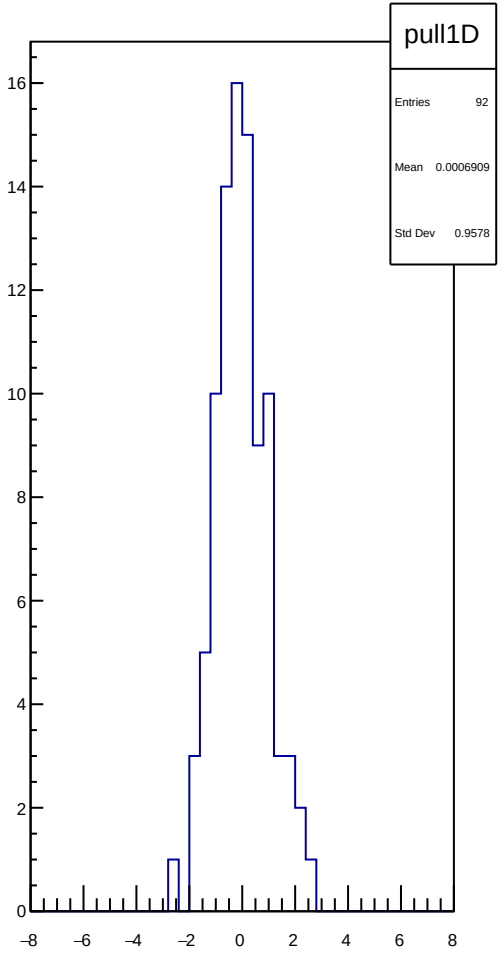

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 250.9 / 91
p0 1729 ± 1.32
1800
1780
1760
1740
1720
1700
1680
1660

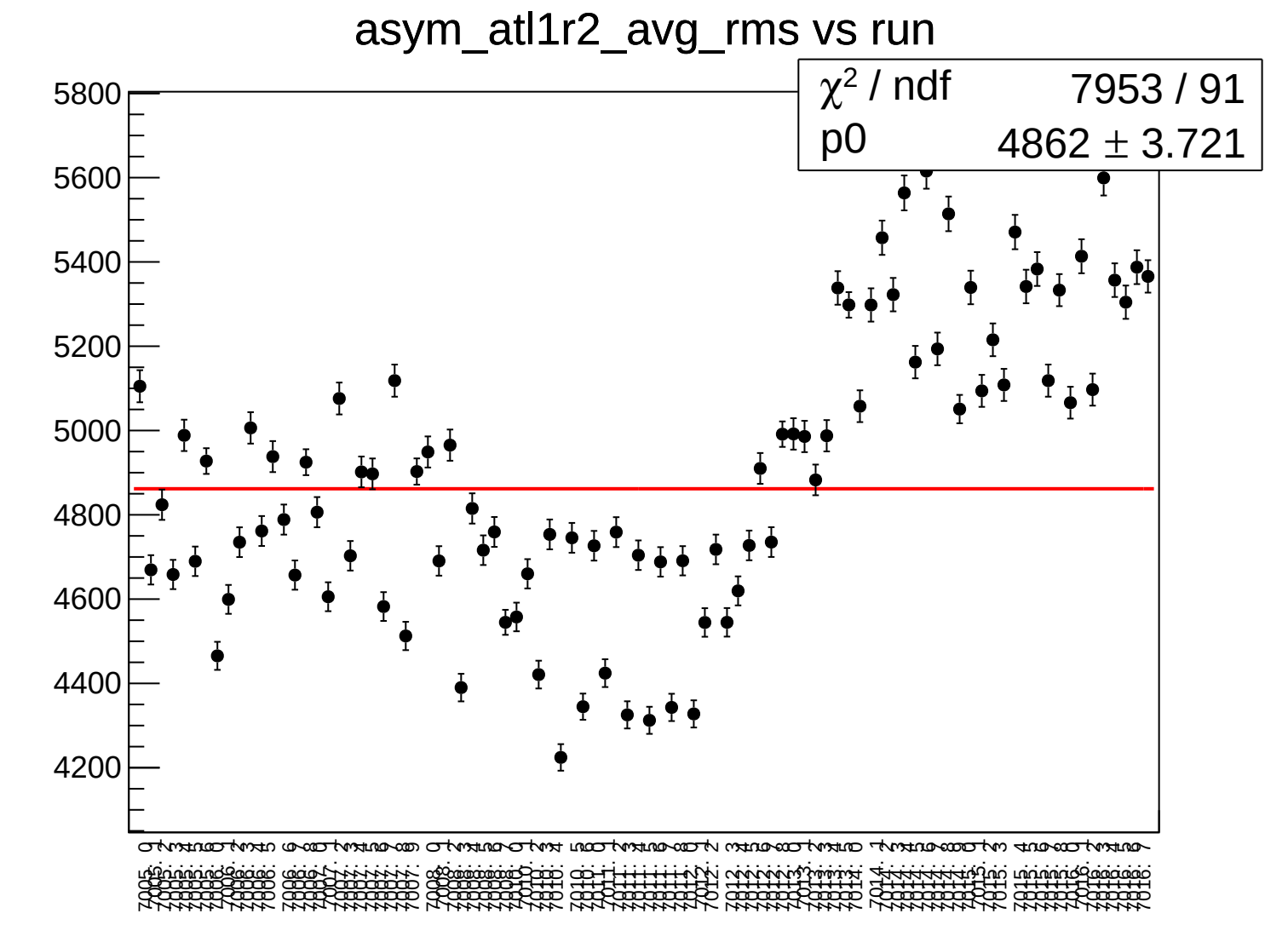

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.05 / 91
p0 −1.308e+04 ± 5184
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 358.4
Std Dev 0
2
1
0
−1
−2

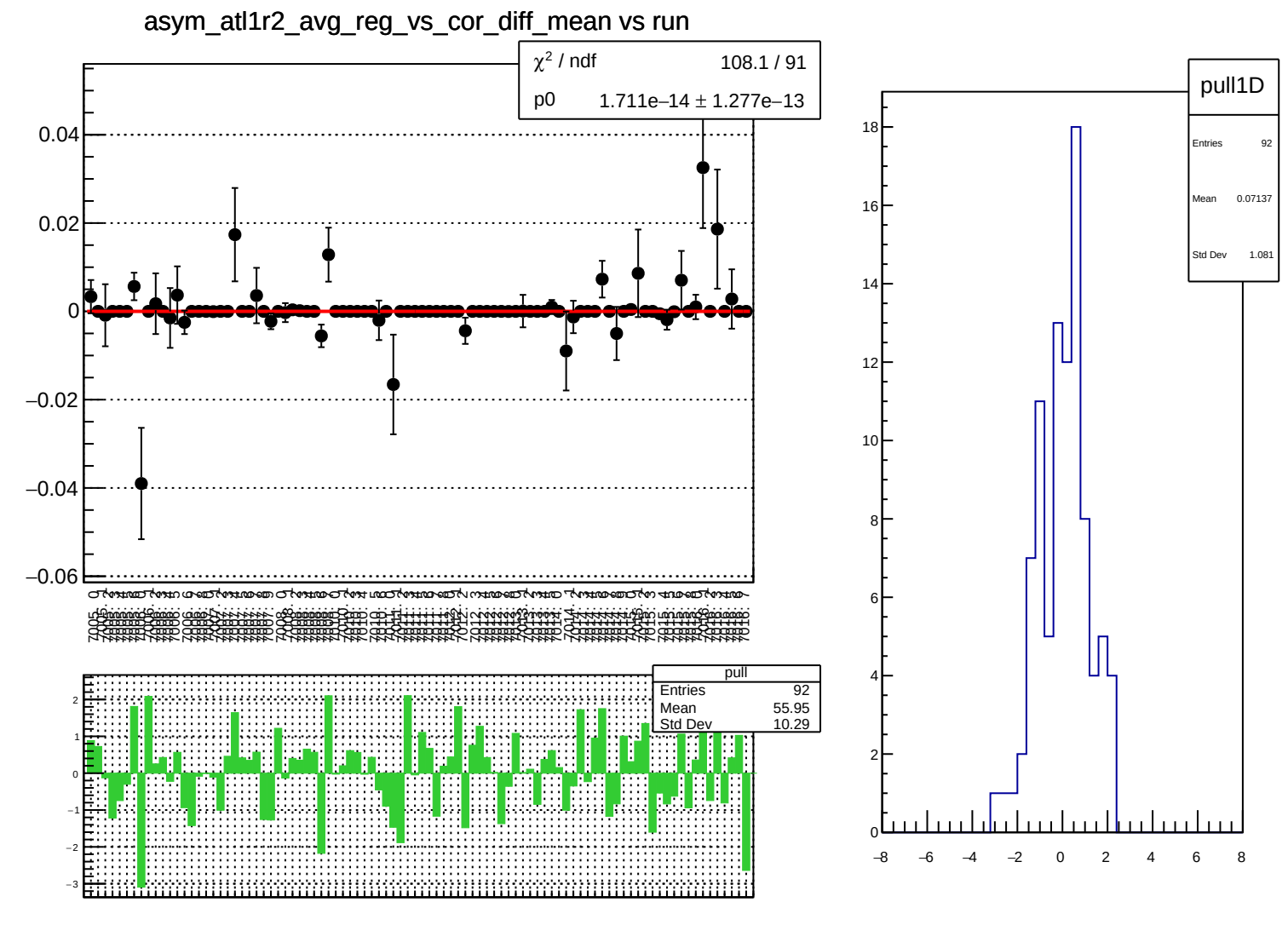

pull1D
Entries 92
Mean −0.001196
Std Dev 0.9727
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

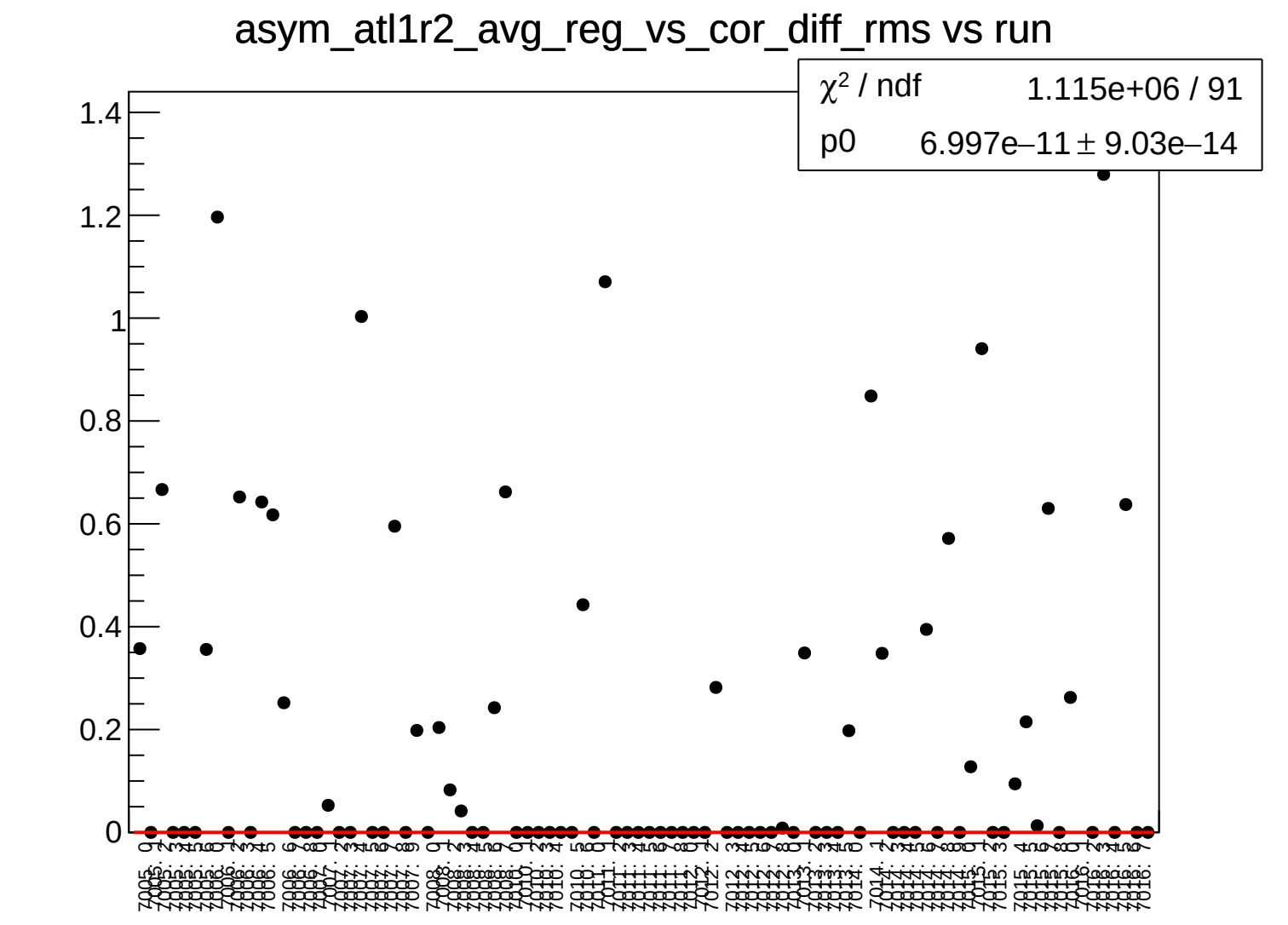

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 9938 / 91
p0 4787 ± 3.666
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

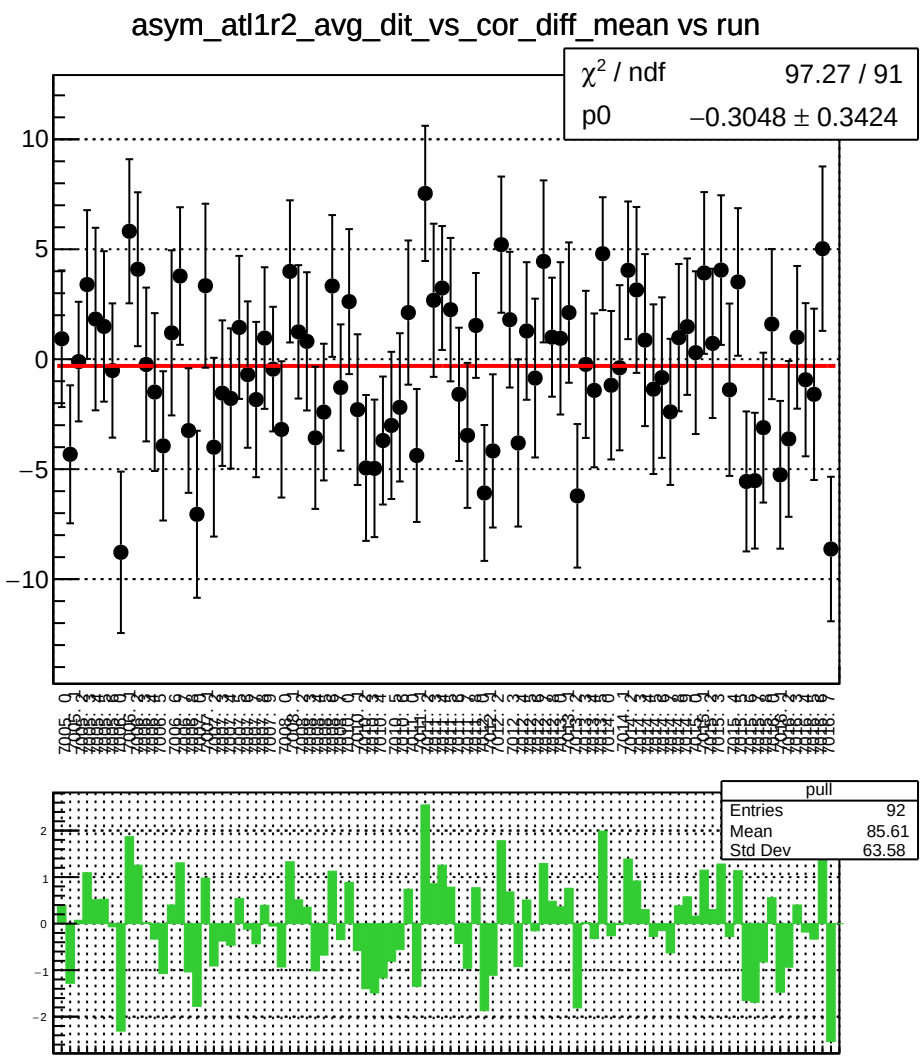

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 84.4 / 91
p0 1.328e+04 ± 5262
pull
Entries 92
Mean 491.7
Std Dev 0

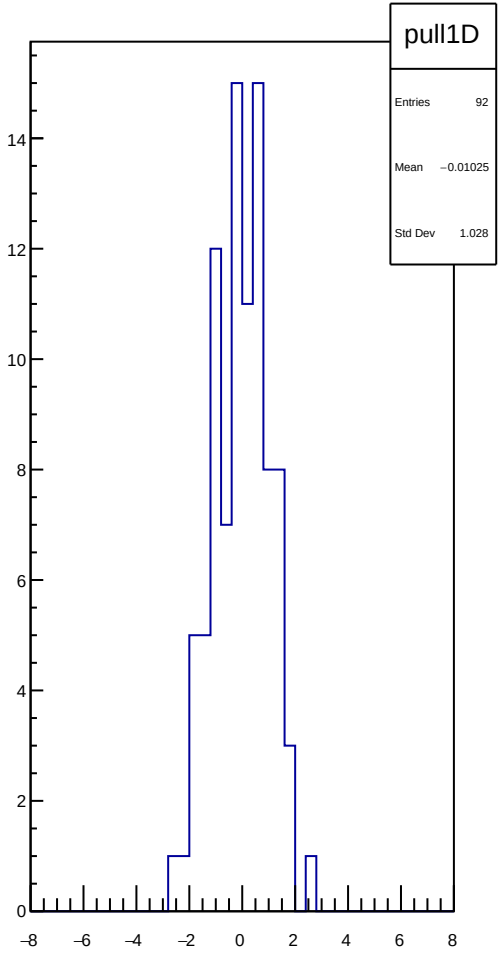

pull1D
Entries 92
Mean 0.0006909
Std Dev 0.9578

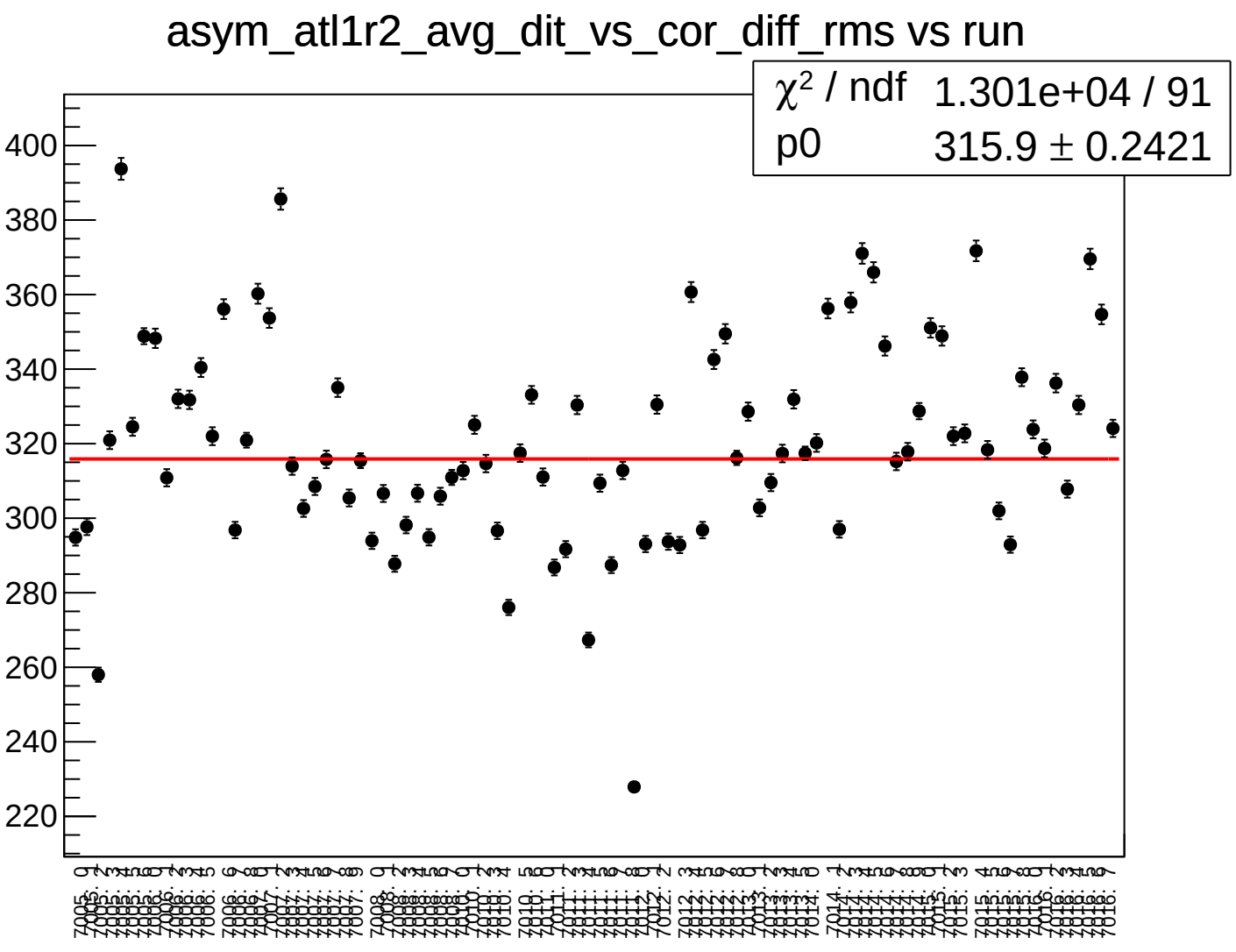

asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 7953 / 91
p0 4862 ± 3.721
5800
5600
5400
5200
5000
4800
4600
4400
4200

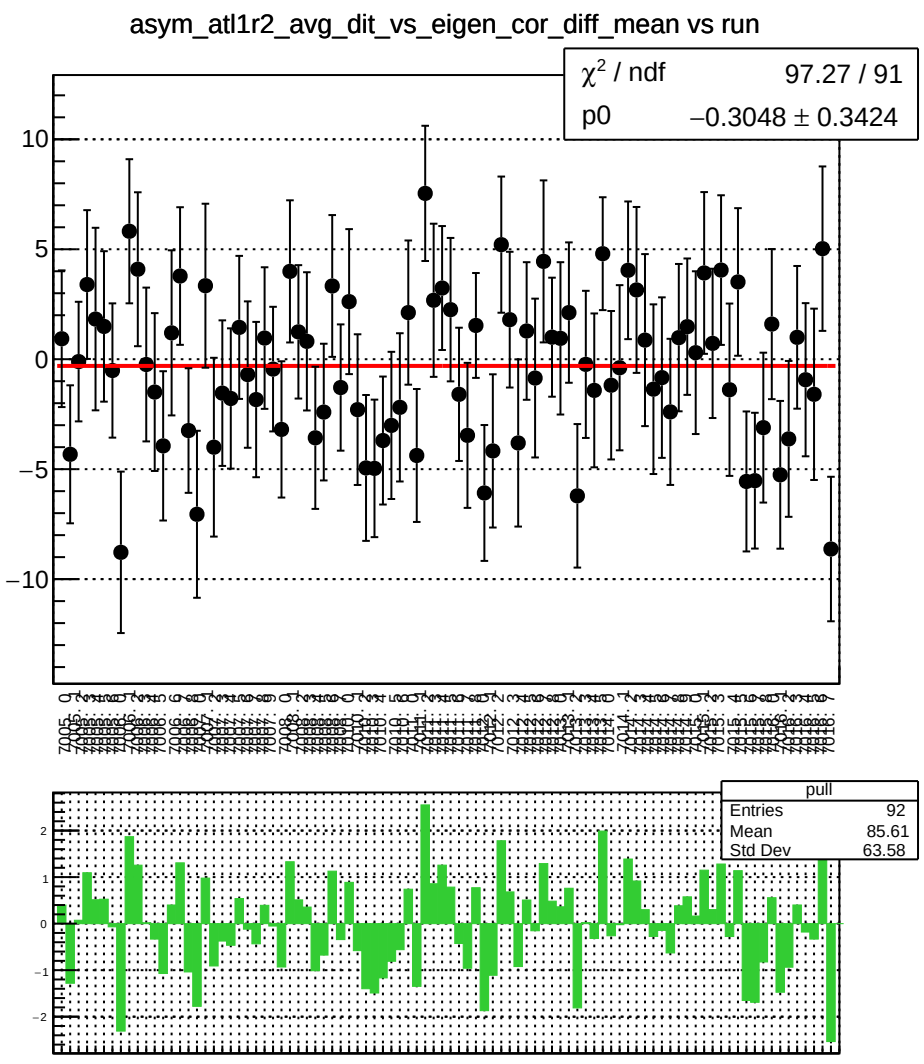

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 91
p0 1.711e−14 ± 1.277e−13
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean 55.95
Std Dev 10.29
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.07137
Std Dev 1.081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

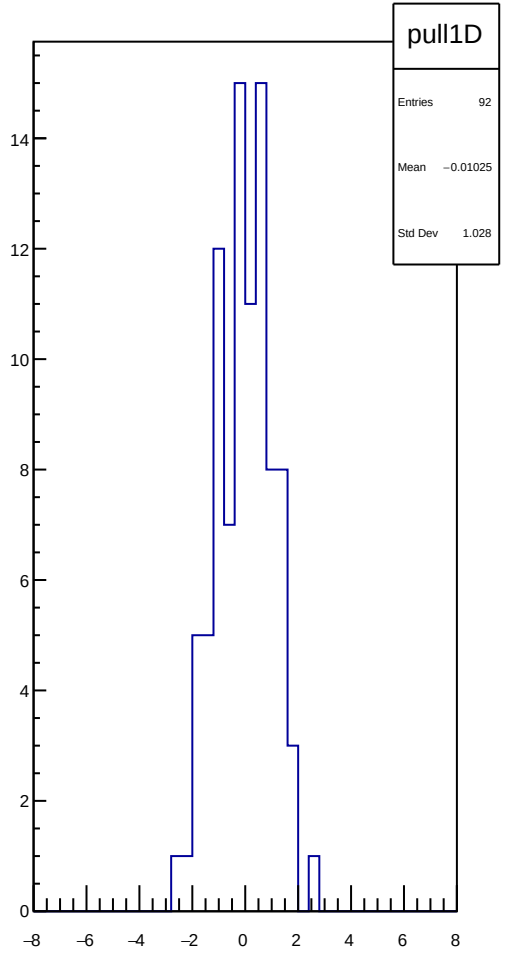

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.115e+06 / 91
p0 6.997e−11 ± 9.03e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

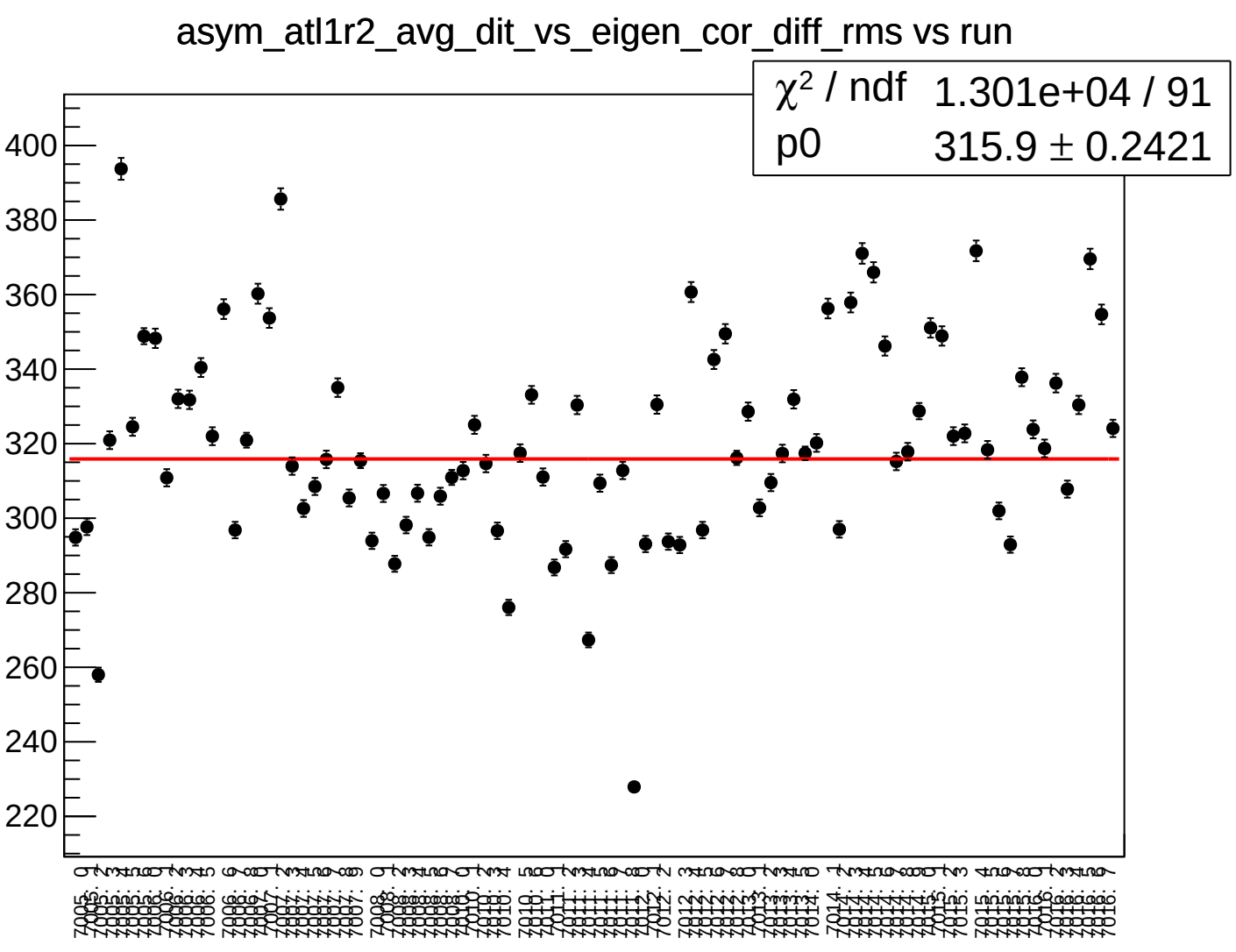

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.27 / 91
p0 −0.3048 ± 0.3424
pull
Entries 92
Mean 85.61
Std Dev 63.58

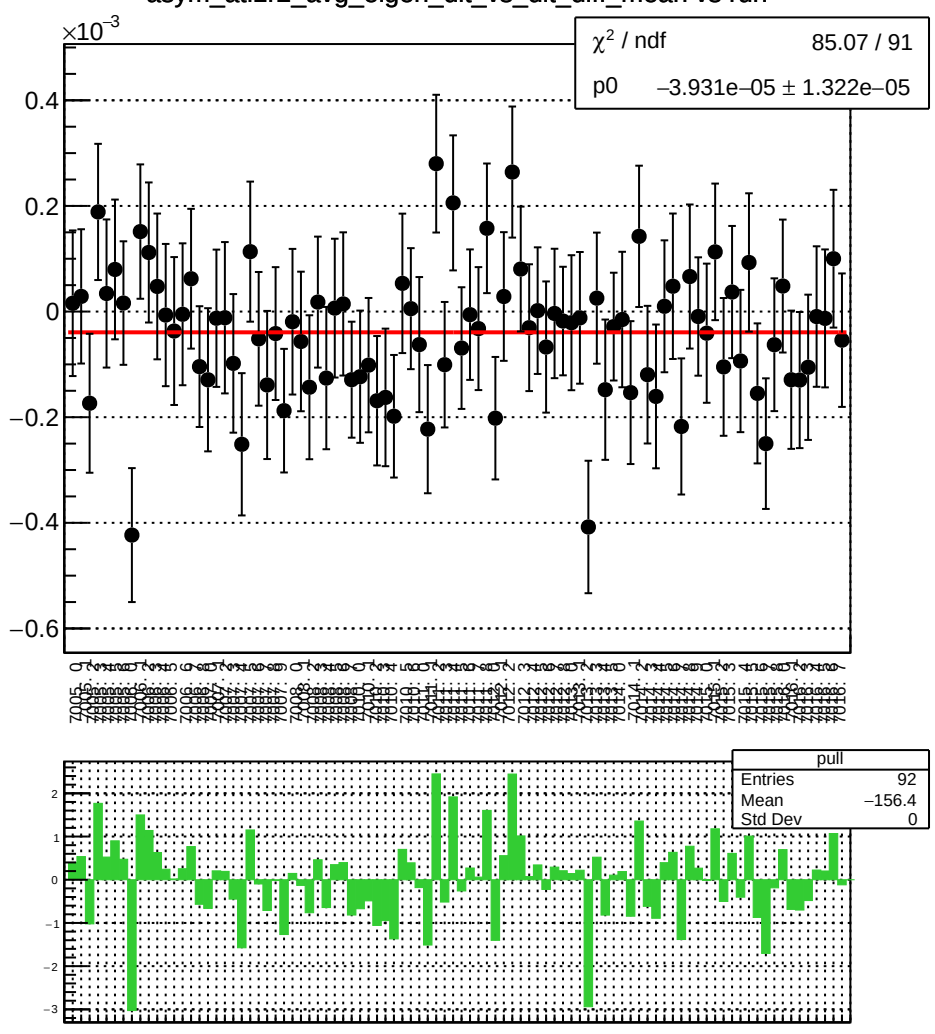

pull1D
Entries 92
Mean −0.01025
Std Dev 1.028

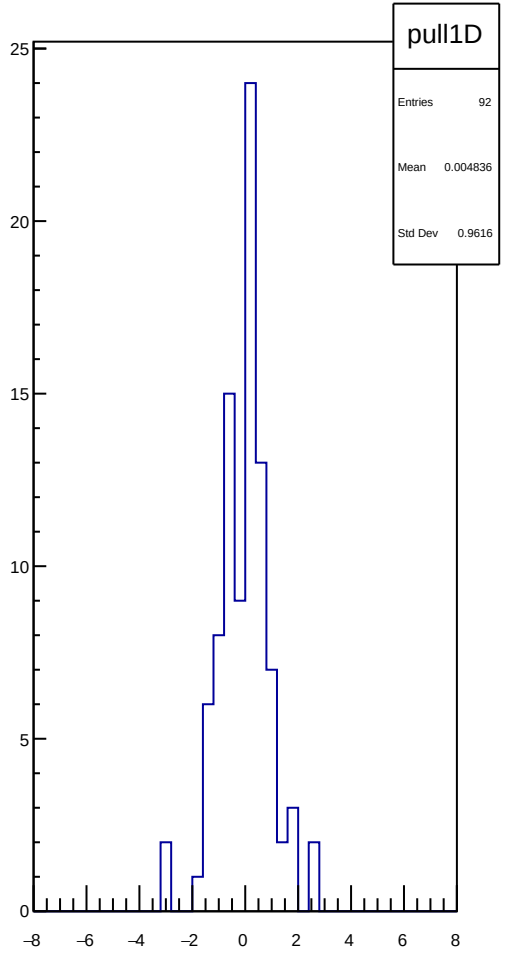

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.301e+04 / 91
p0 315.9 ± 0.2421
400
380
360
340
320
300
280
260
240
220

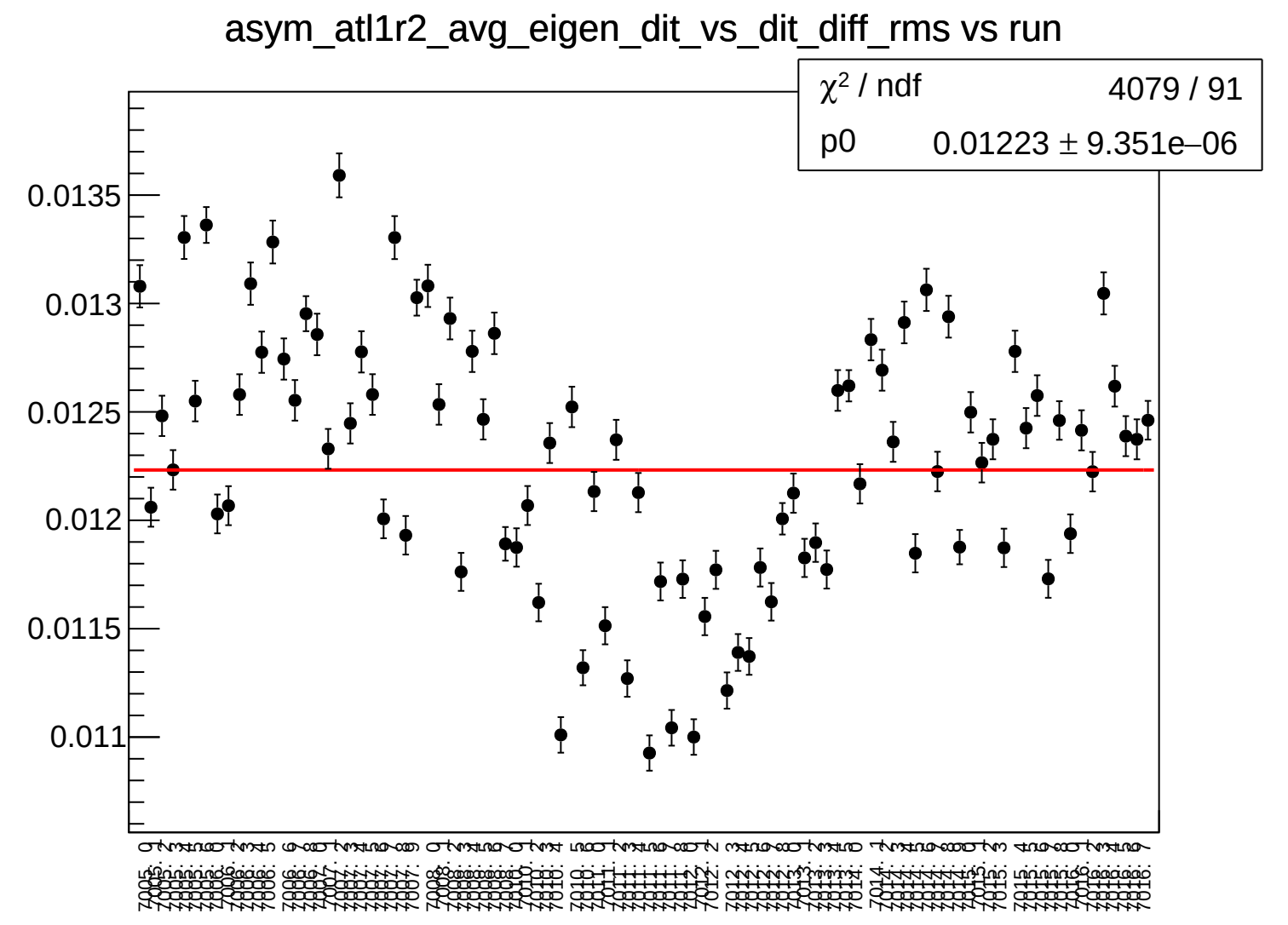

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.27 / 91
p0 −0.3048 ± 0.3424
pull
Entries 92
Mean 85.61
Std Dev 63.58

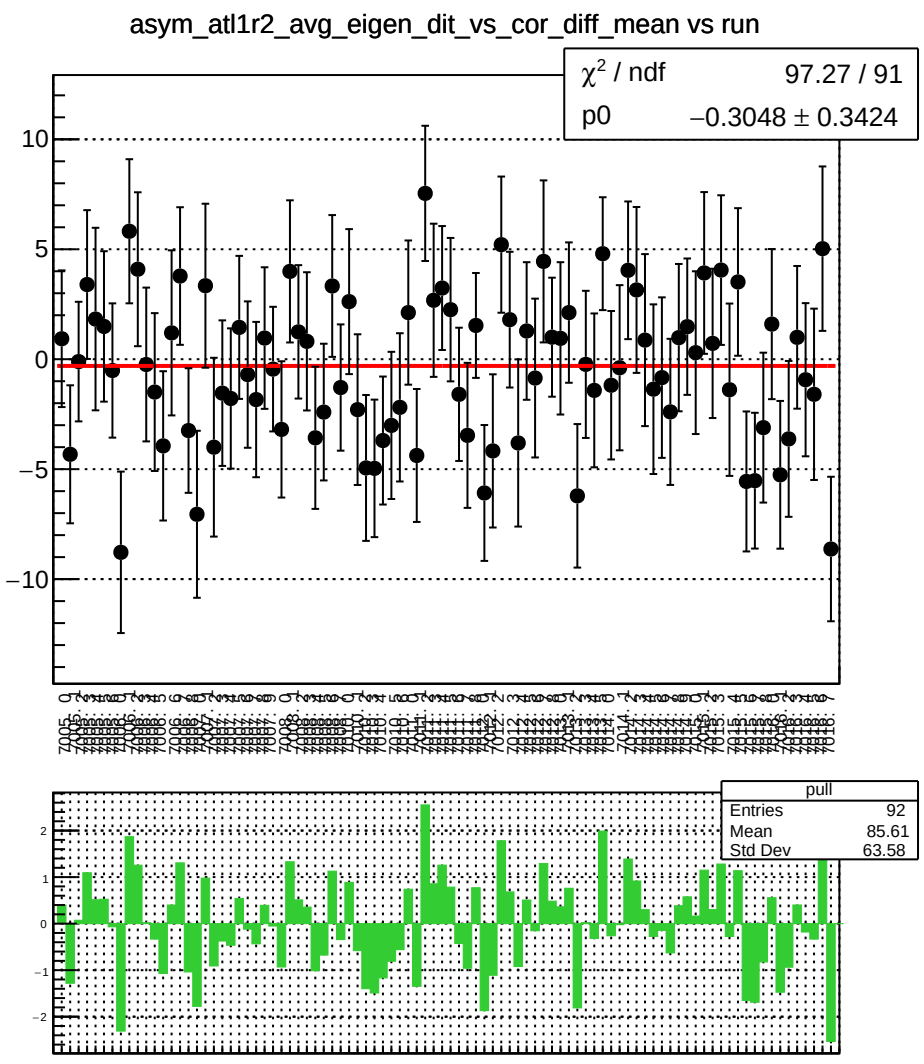

pull1D
Entries 92
Mean −0.01025
Std Dev 1.028

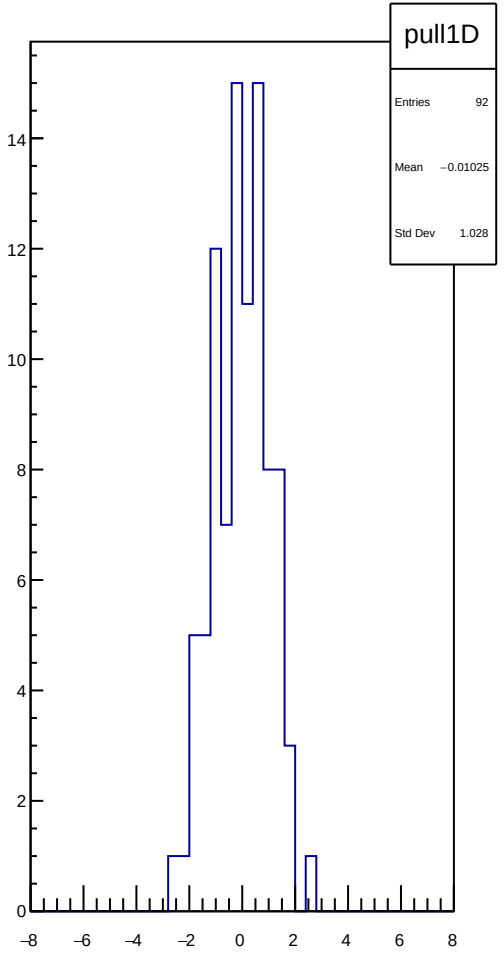

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.301e+04 / 91
p0 315.9 ± 0.2421
400
380
360
340
320
300
280
260
240
220

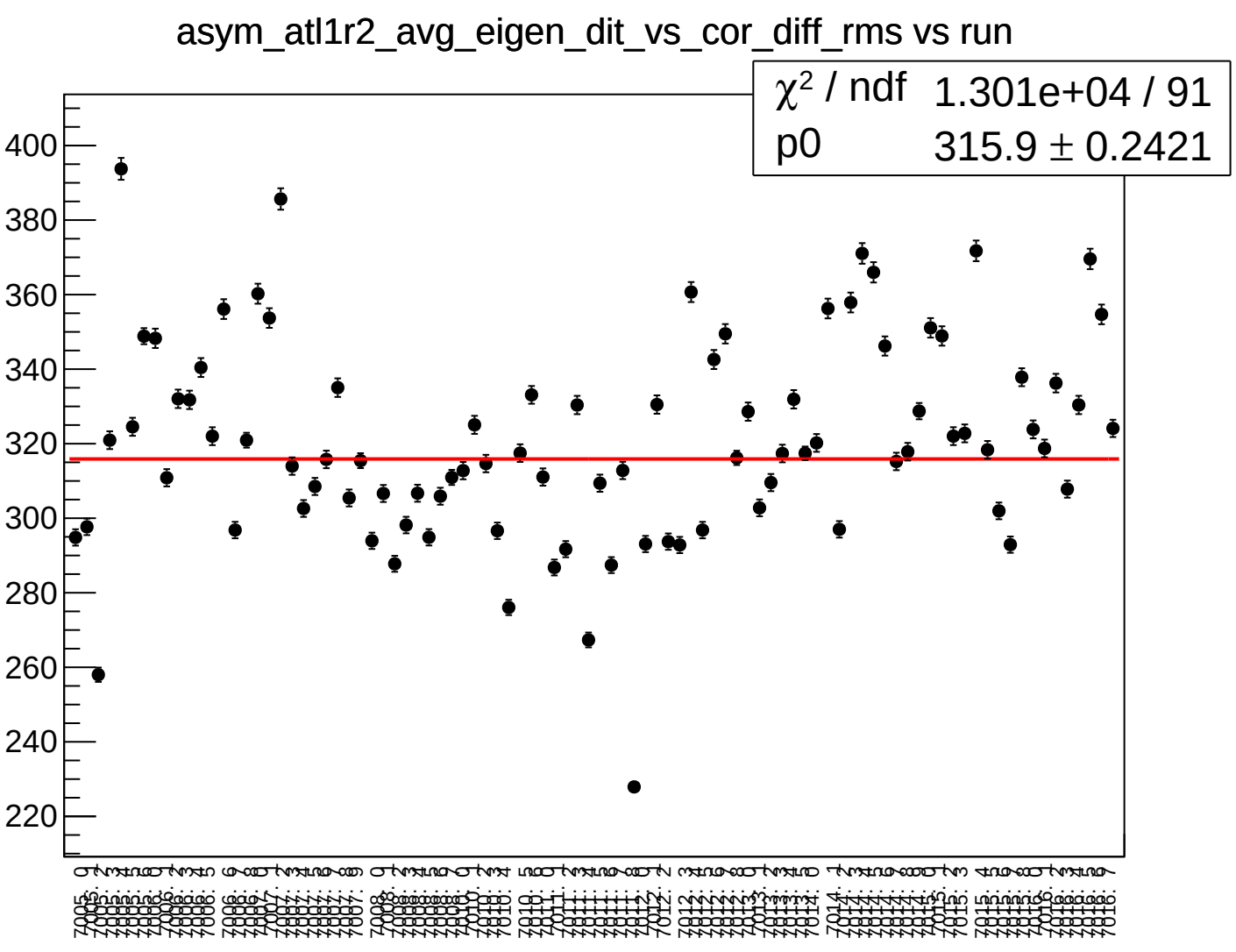

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.07 / 91
p0 −3.931e−05 ± 1.322e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean −156.4
Std Dev 0
2
1
0
−1
−2
−3

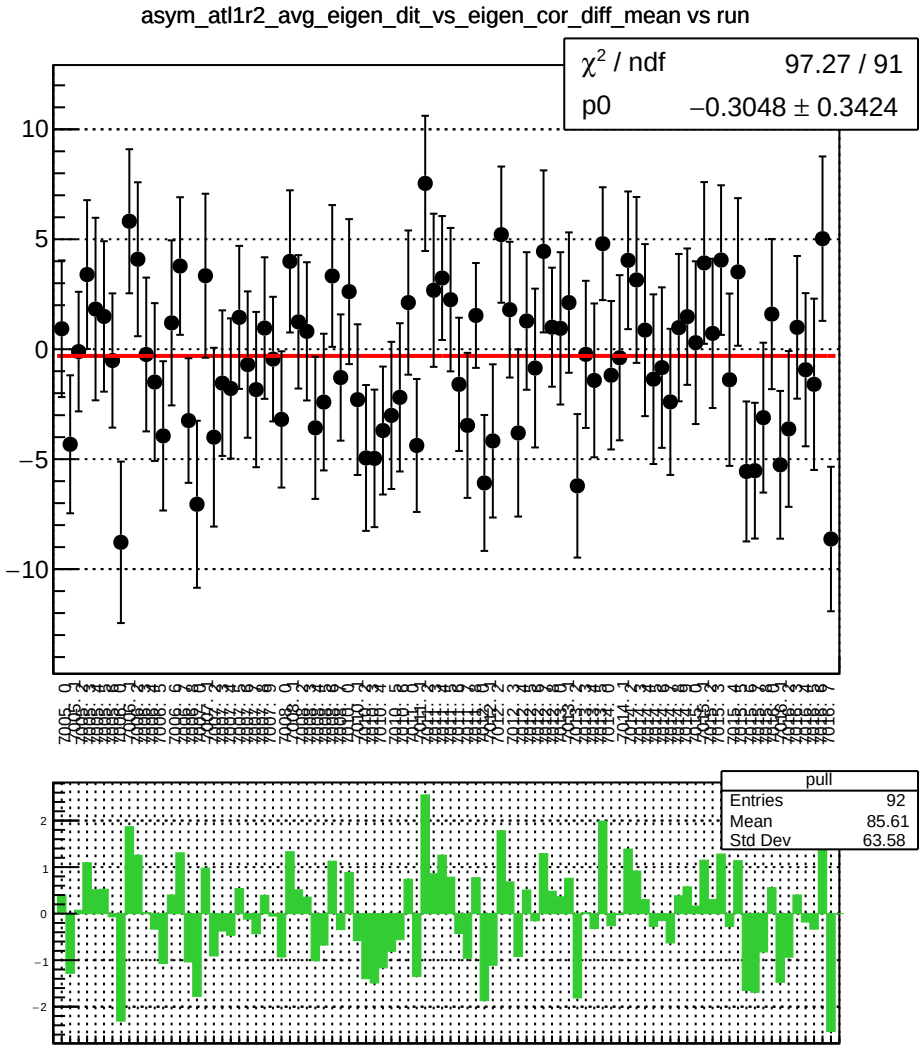

pull1D
Entries 92
Mean 0.004836
Std Dev 0.9616
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

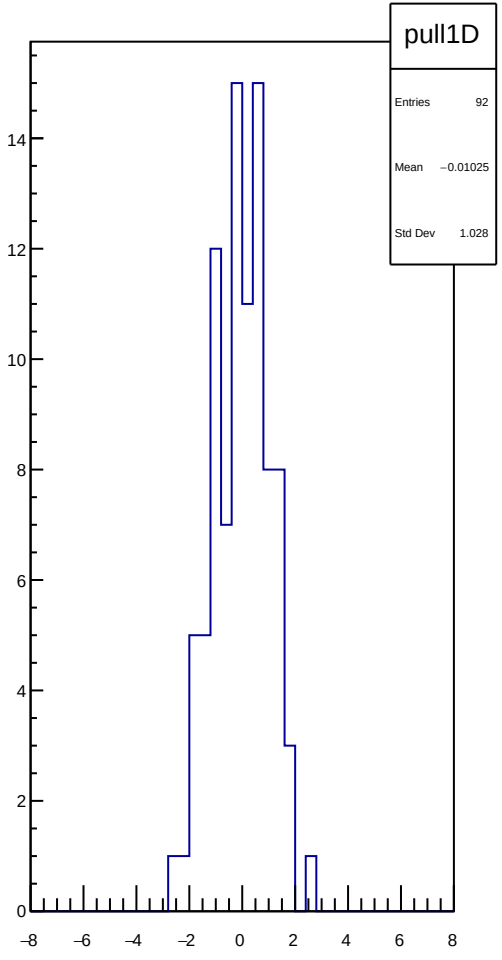

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4079 / 91
p0 0.01223 ± 9.351e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011

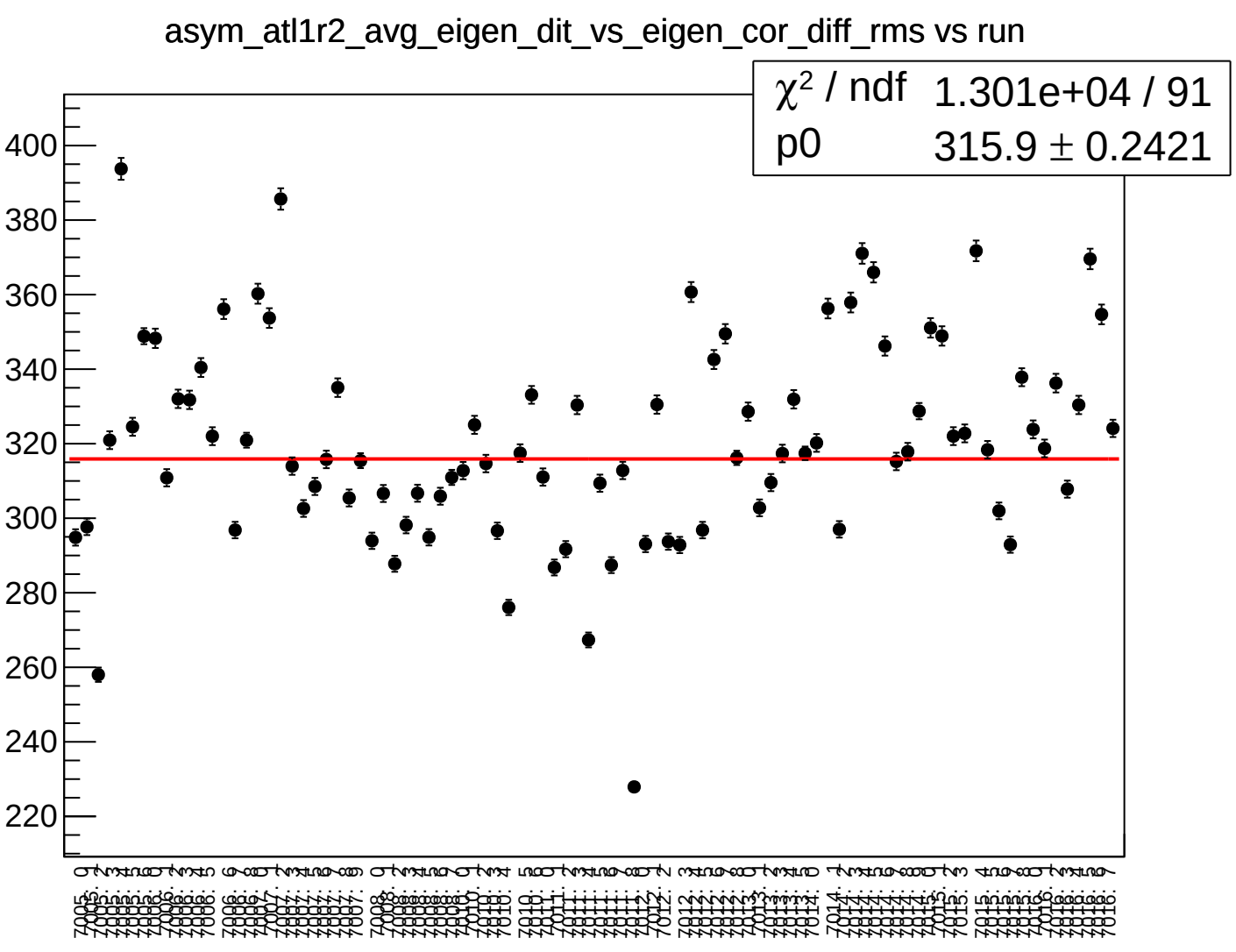

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.27 / 91
p0 −0.3048 ± 0.3424
10
5
0
−5
−10
pull
Entries 92
Mean 85.61
Std Dev 63.58
2
1
0
−1
−2

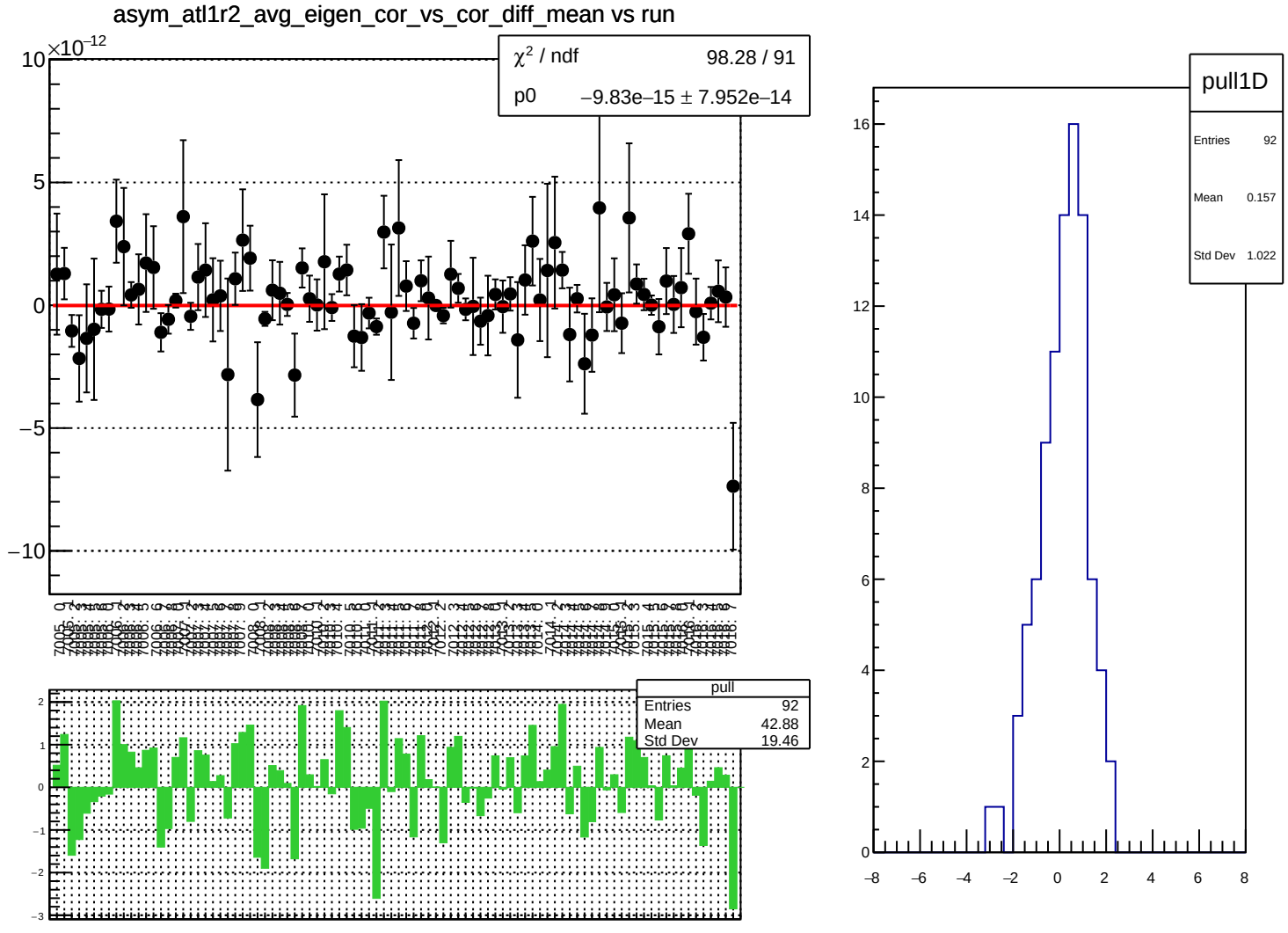

pull1D
Entries 92
Mean −0.01025
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

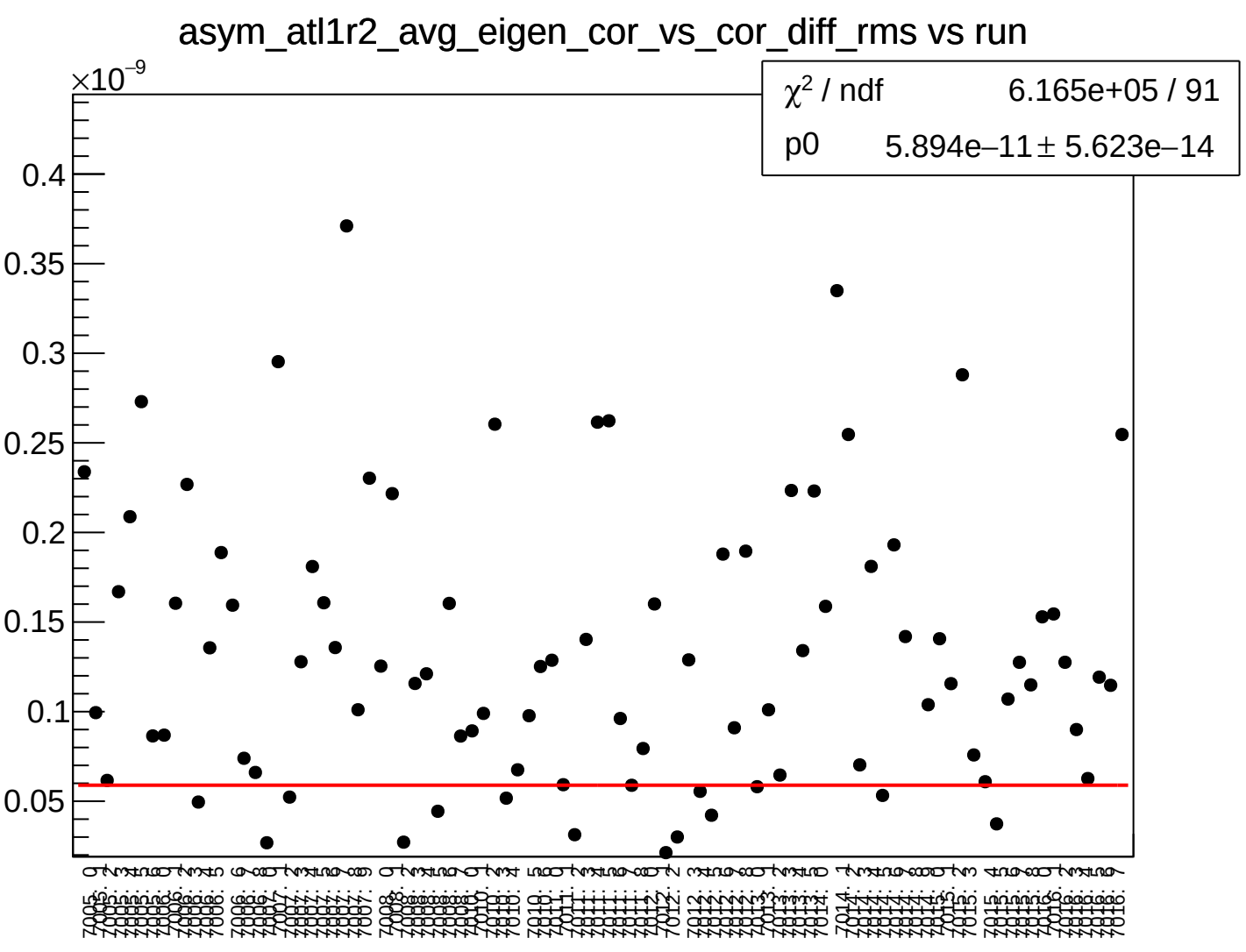

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.301e+04 / 91
p0 315.9 ± 0.2421
400
380
360
340
320
300
280
260
240
220

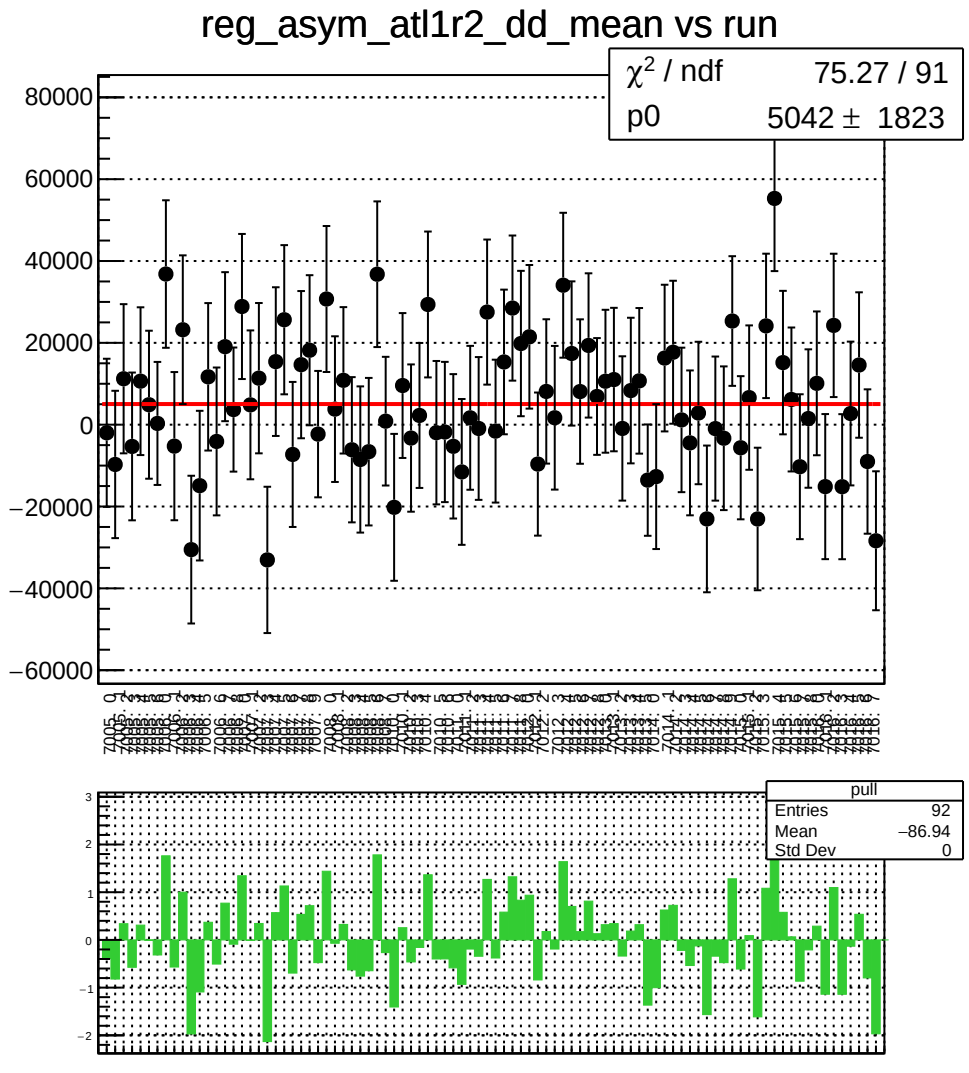

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.27 / 91
p0 −0.3048 ± 0.3424
pull
Entries 92
Mean 85.61
Std Dev 63.58

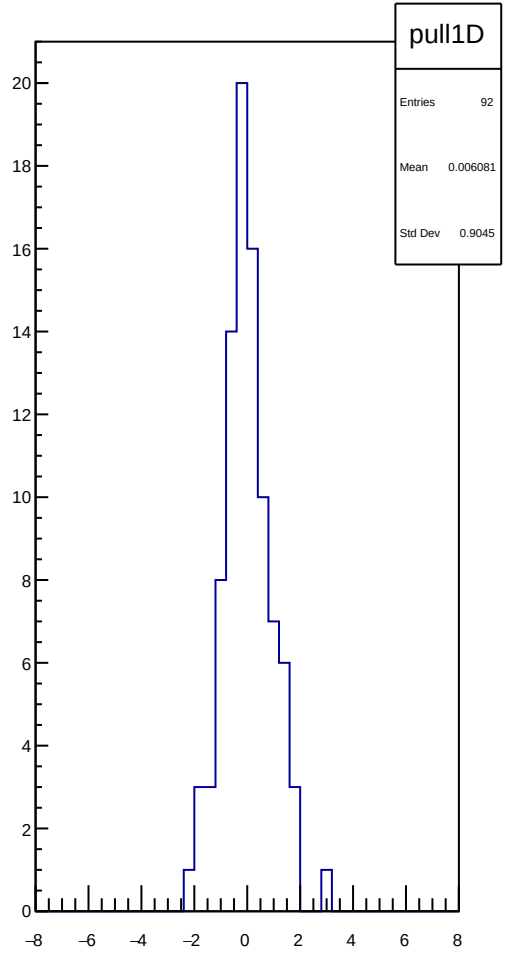

pull1D
Entries 92
Mean −0.01025
Std Dev 1.028

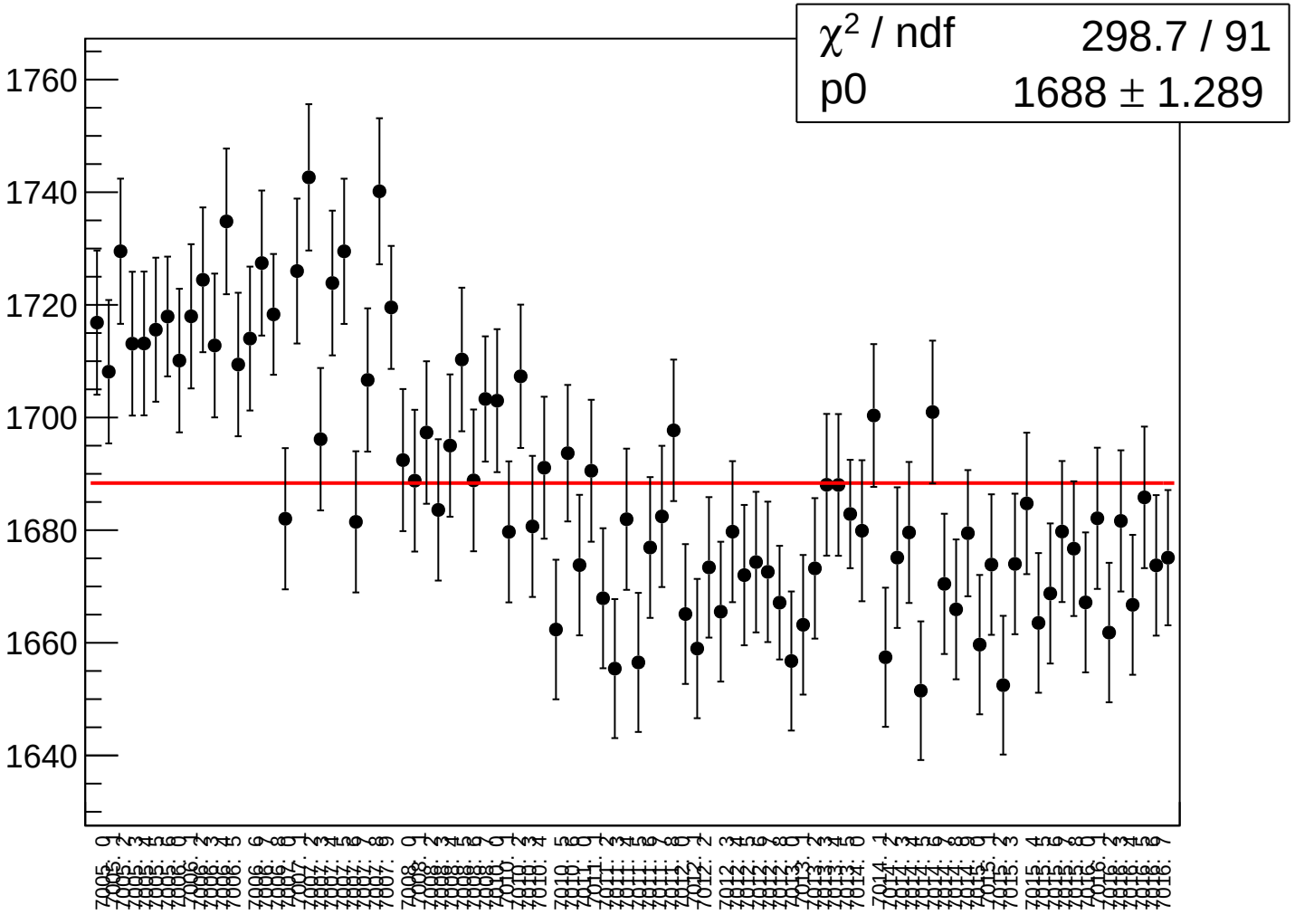

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.301e+04 / 91
p0 315.9 ± 0.2421
400
380
360
340
320
300
280
260
240
220

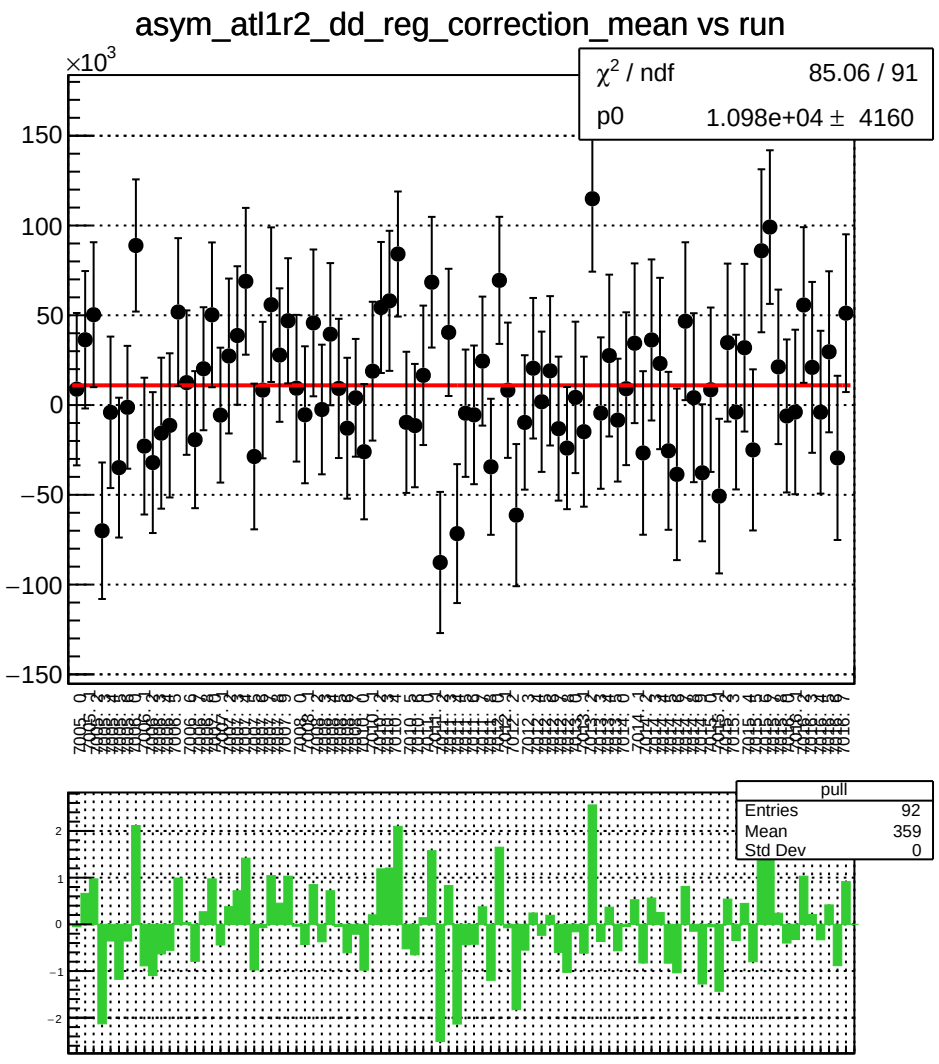

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.28 / 91
p0 −9.83e−15 ± 7.952e−14
pull
Entries 92
Mean 42.88
Std Dev 19.46
pull1D
Entries 92
Mean 0.157
Std Dev 1.022

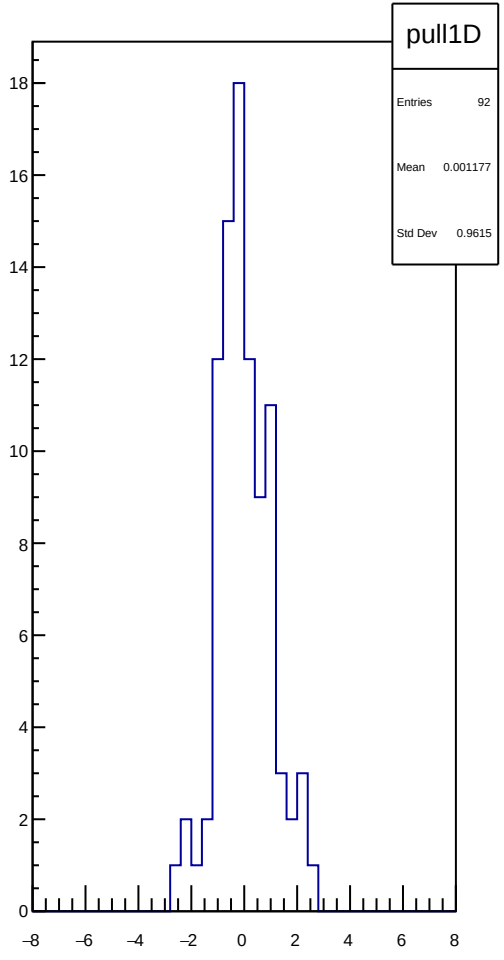

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.165e+05 / 91
p0 5.894e−11 ± 5.623e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

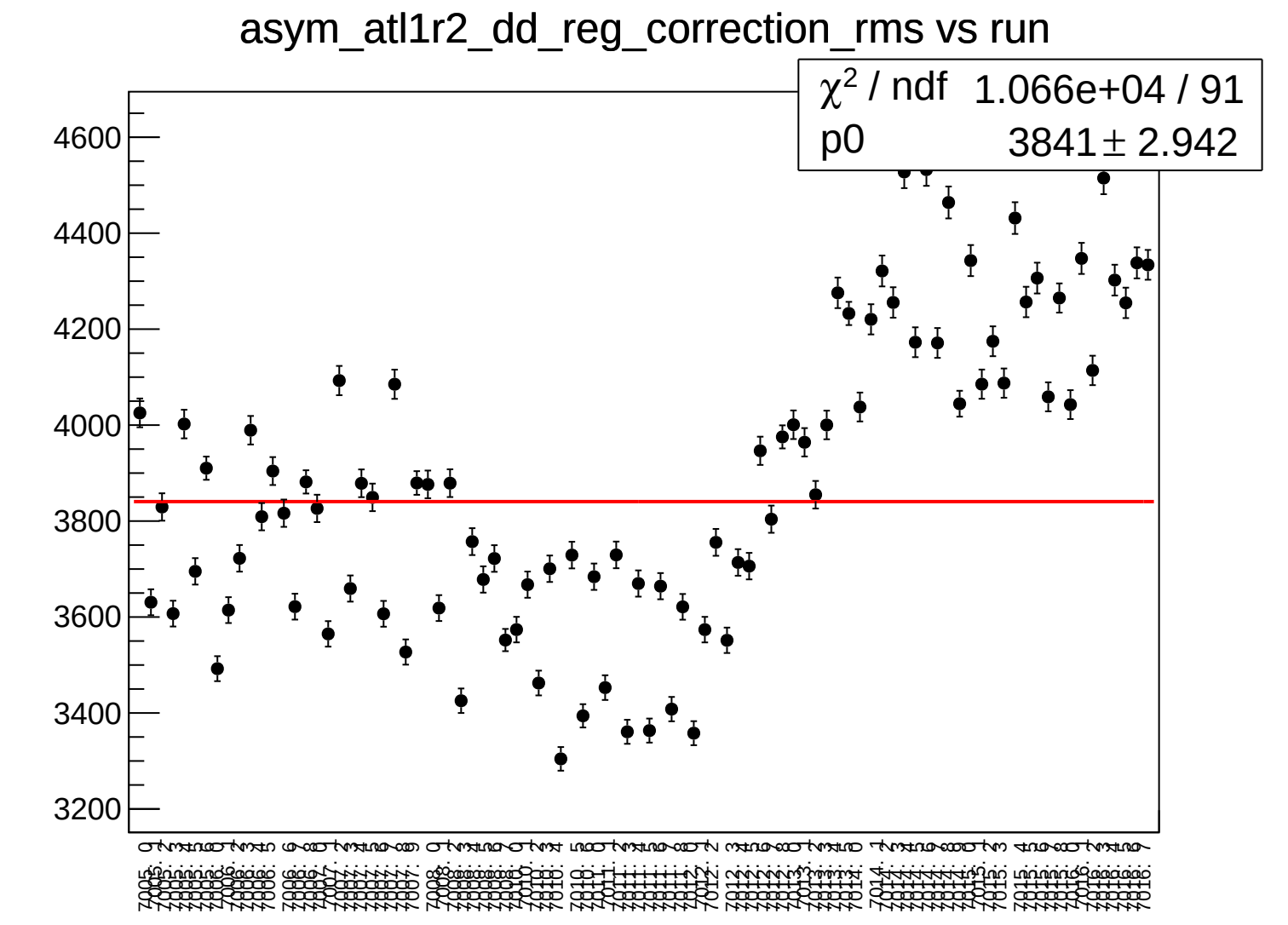

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 75.27 / 91
p0 5042 ± 1823
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −86.94
Std Dev 0
3
2
1
0
−1
−2

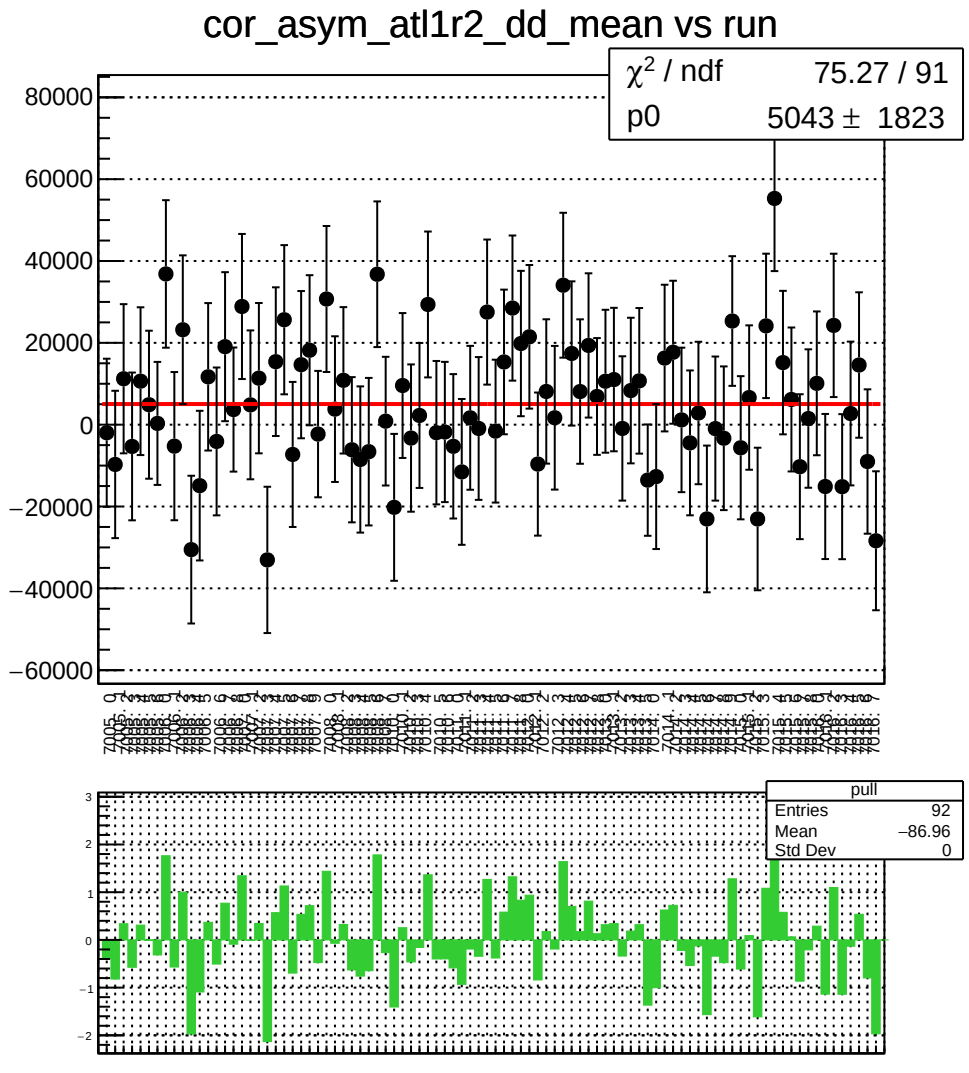

pull1D
Entries 92
Mean 0.006081
Std Dev 0.9045
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

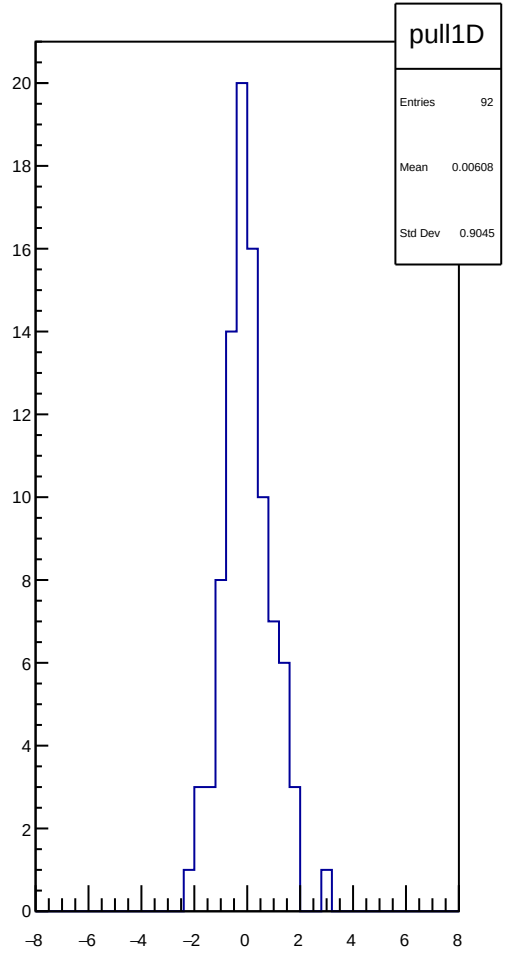

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 298.7 / 91
p0 1688 ± 1.289
1760
1740
1720
1700
1680
1660
1640

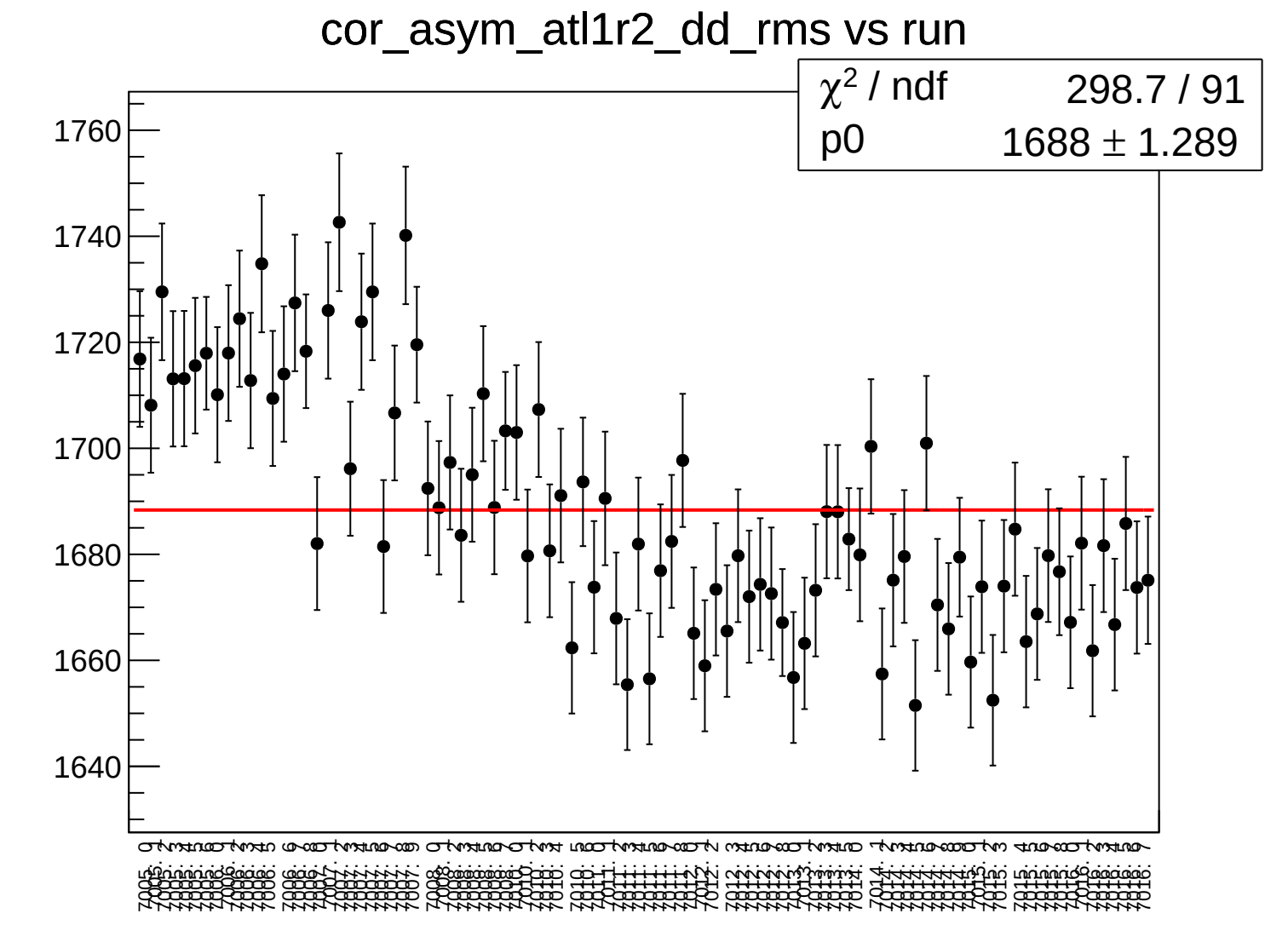

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.06 / 91
p0 1.098e+04 ± 4160
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 359
Std Dev 0
2
1
0
−1
−2

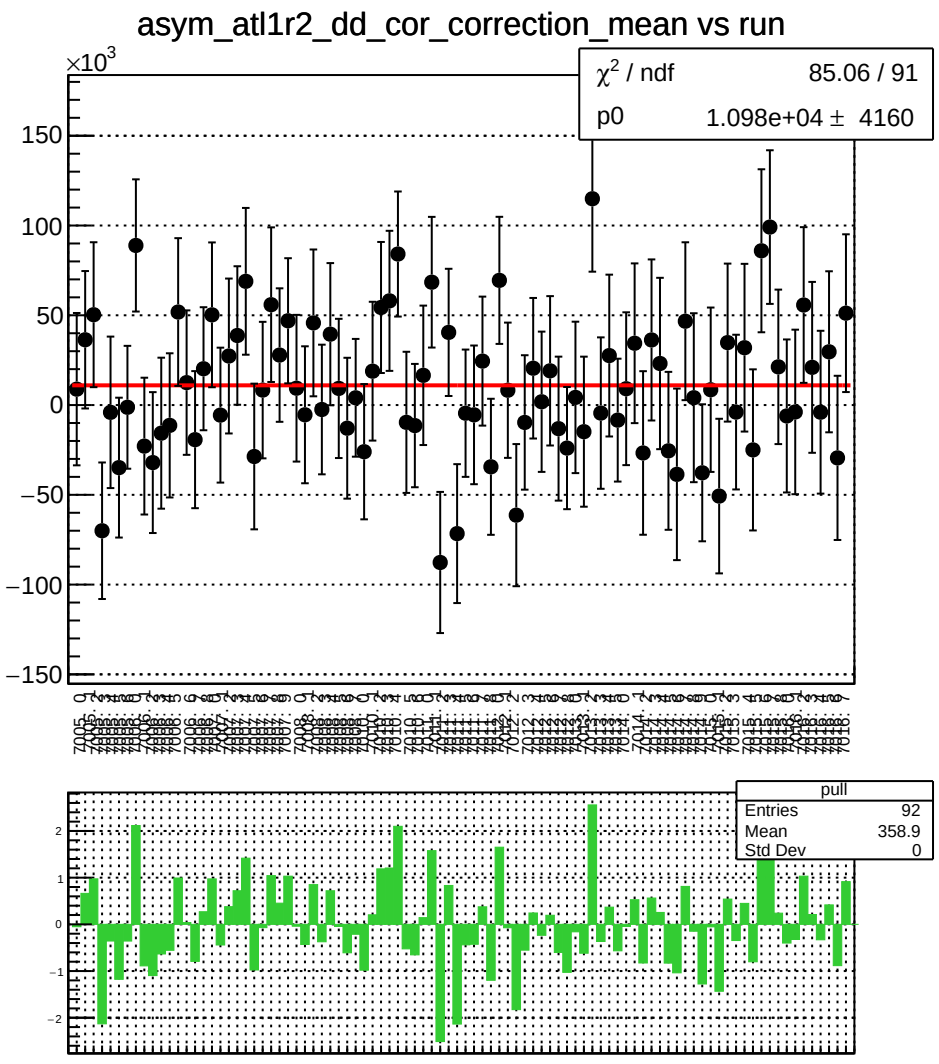

pull1D
Entries 92
Mean 0.001177
Std Dev 0.9615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

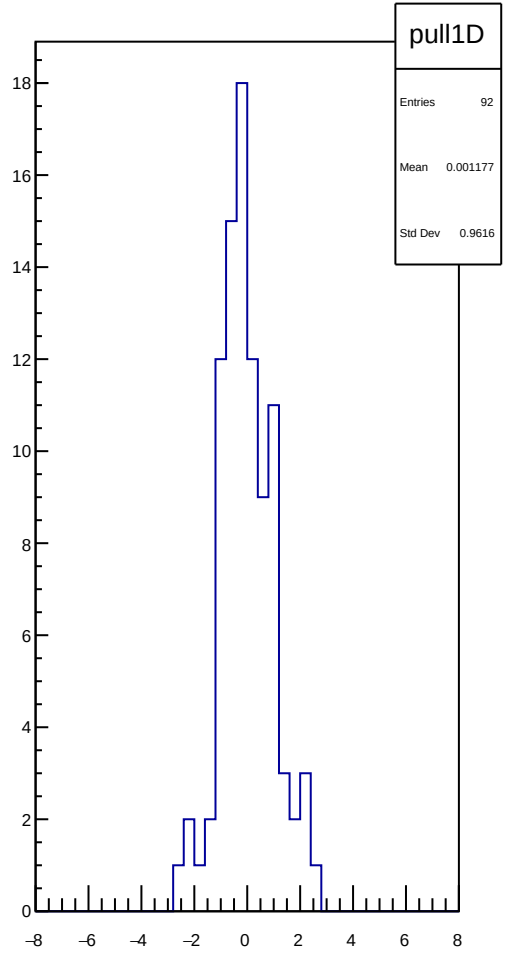

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 1.066e+04 / 91
p0 3841 ± 2.942
4600
4400
4200
4000
3800
3600
3400
3200

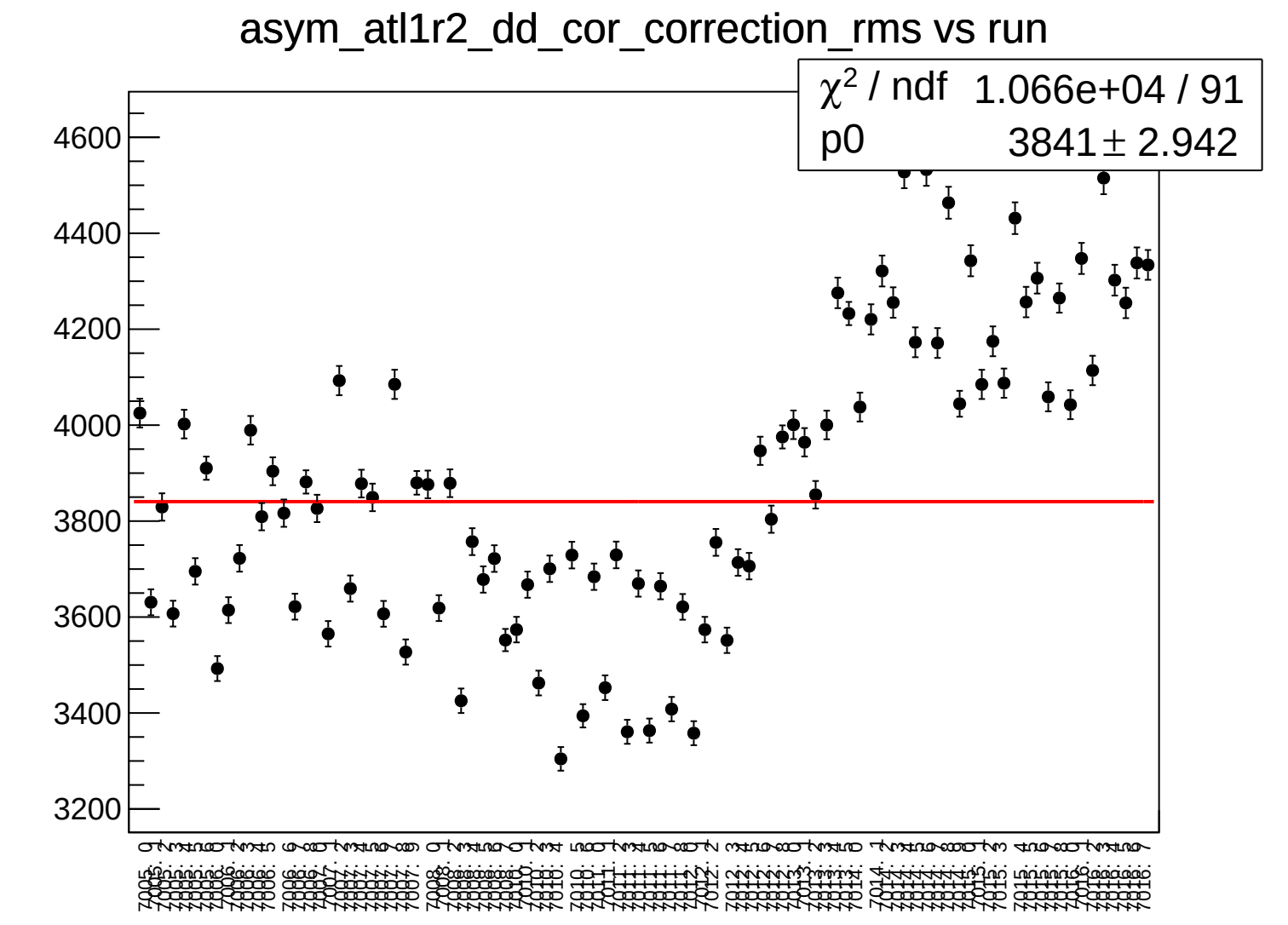

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 75.27 / 91
p0 5043 ± 1823
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −86.96
Std Dev 0
3
2
1
0
−1
−2

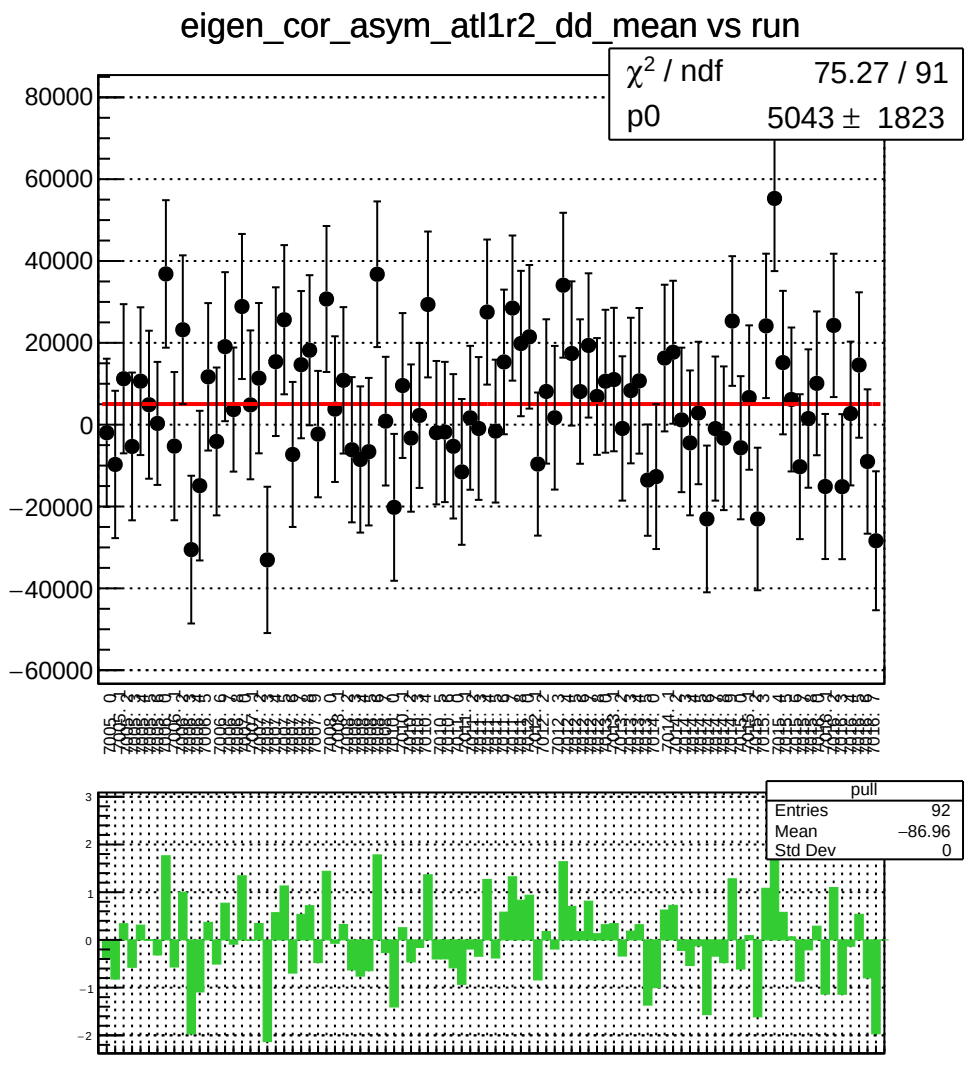

pull1D
Entries 92
Mean 0.00608
Std Dev 0.9045
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

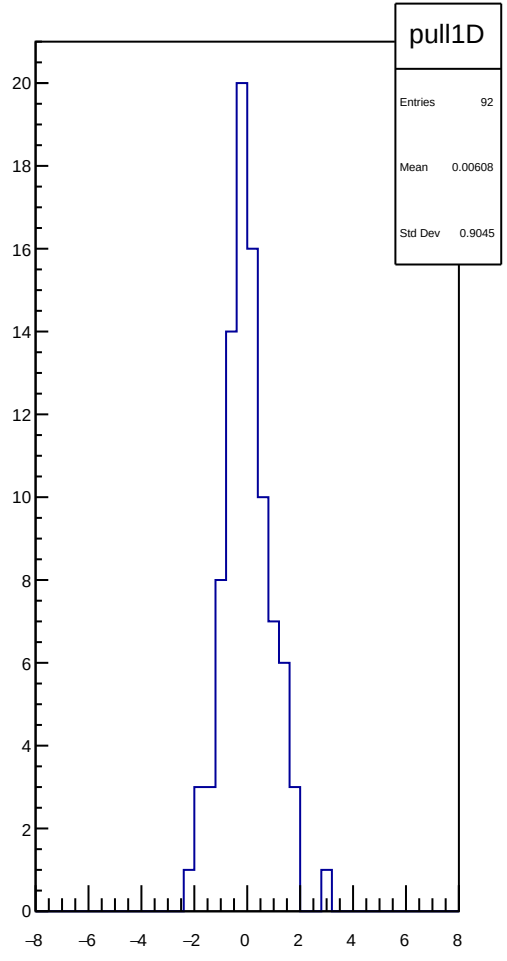

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 298.7 / 91
p0 1688 ± 1.289
1760
1740
1720
1700
1680
1660
1640

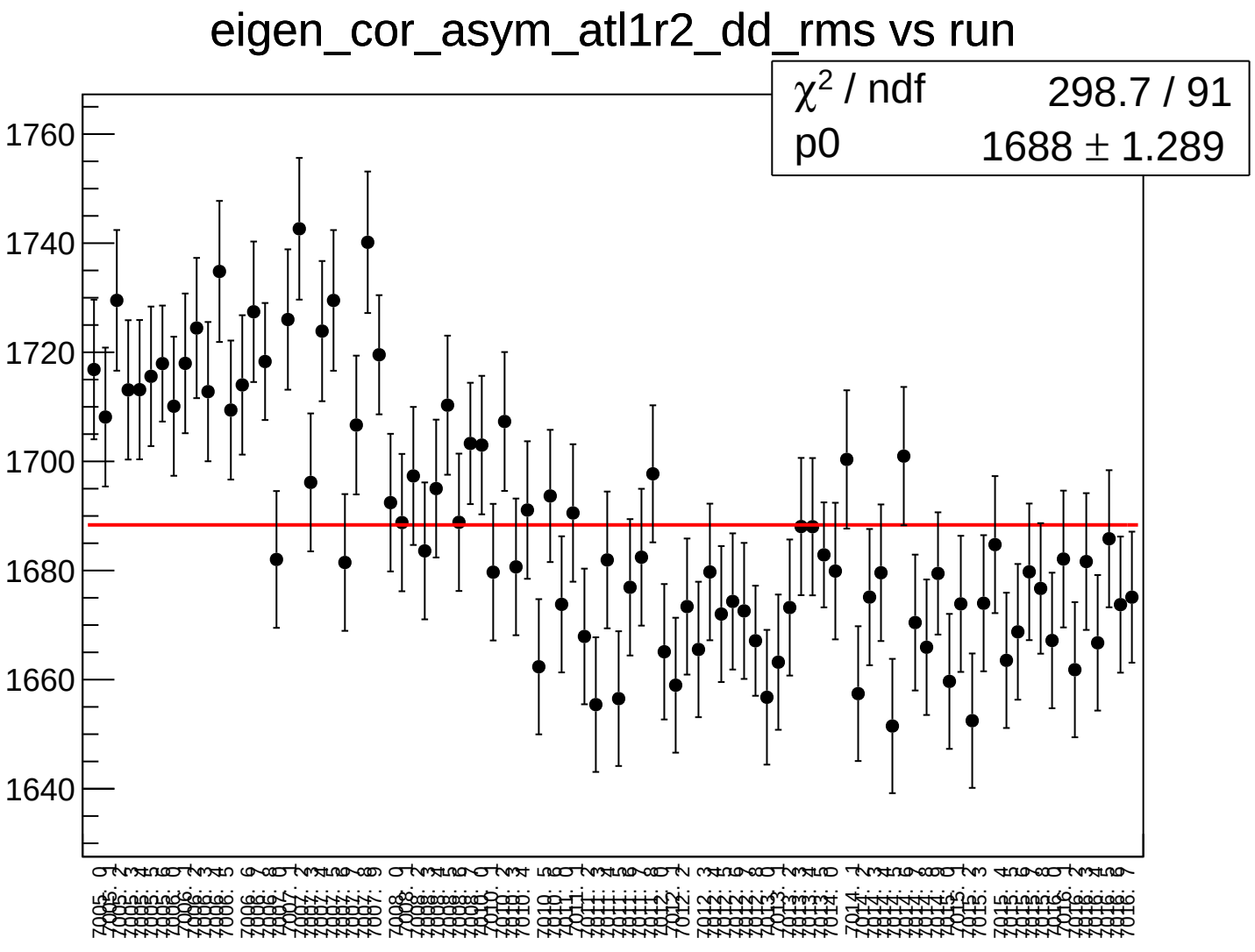

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.06 / 91
p0 1.098e+04 ± 4160
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 358.9
Std Dev 0
2
1
0
−1
−2

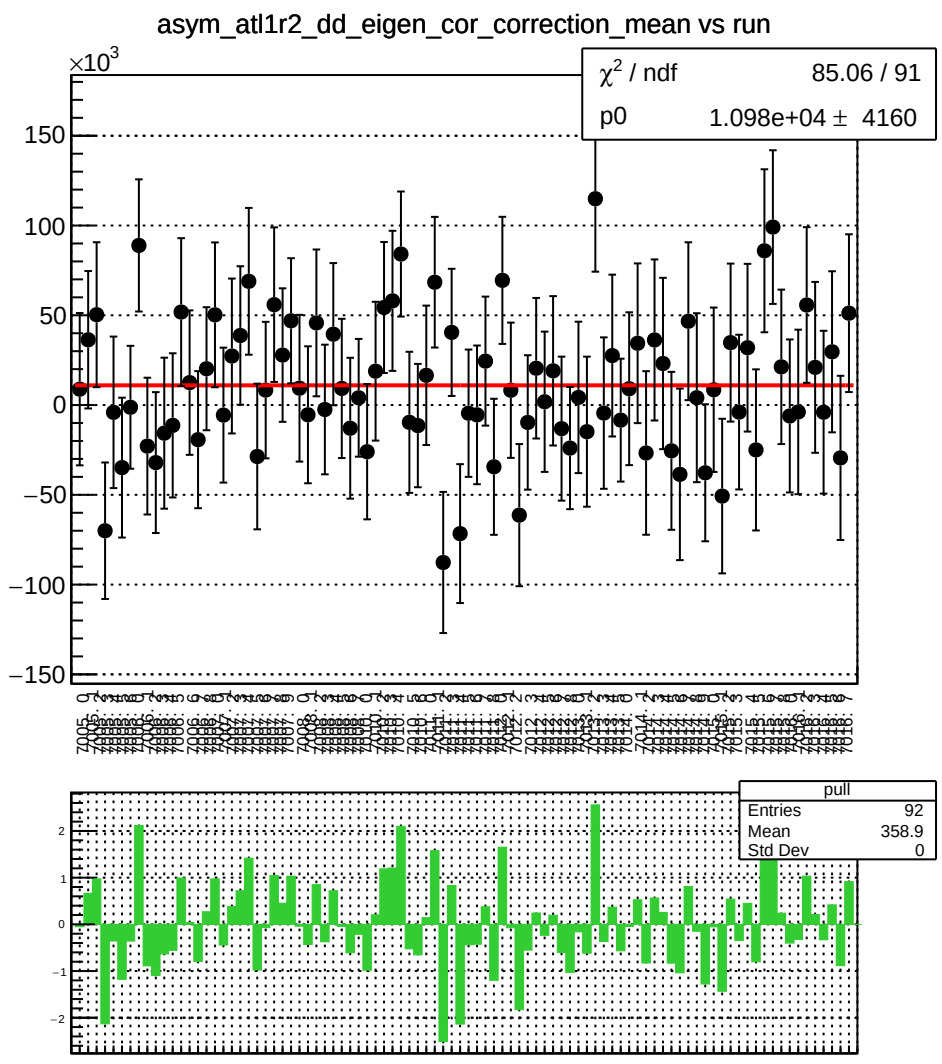

pull1D
Entries 92
Mean 0.001177
Std Dev 0.9616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

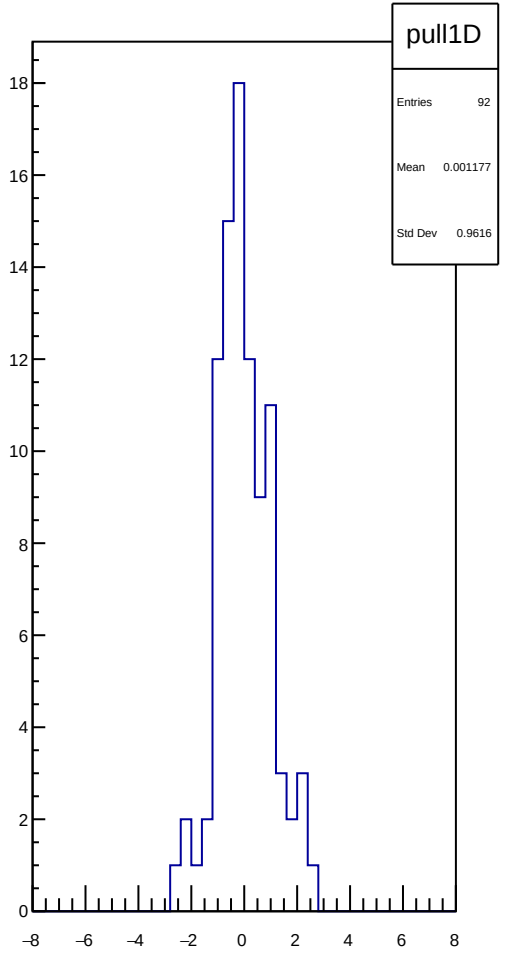

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 1.066e+04 / 91
p0 3841 ± 2.942
4600
4400
4200
4000
3800
3600
3400
3200

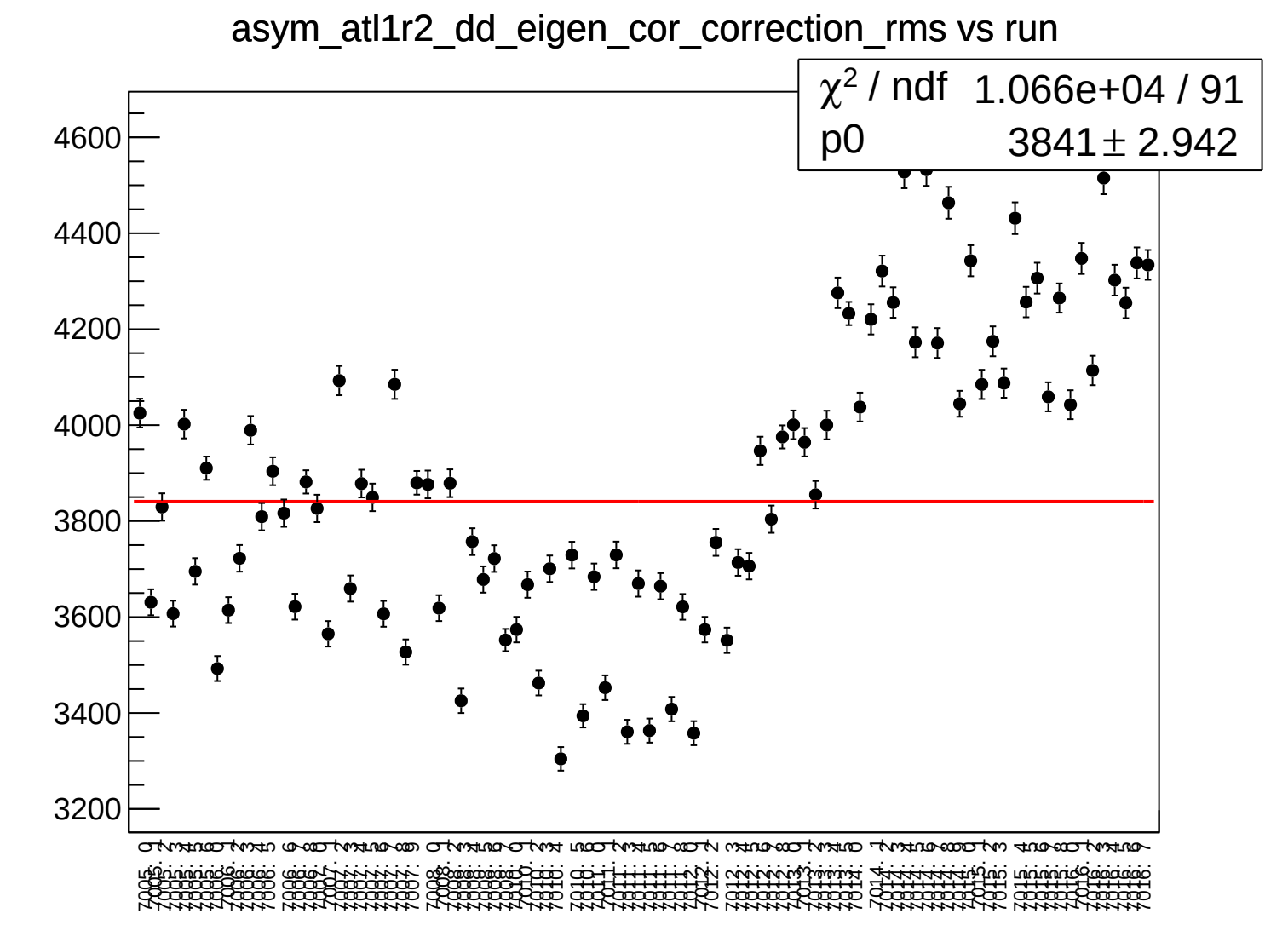

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 75.27 / 91
p0 5043 ± 1823
pull
Entries 92
Mean −86.96
Std Dev 0

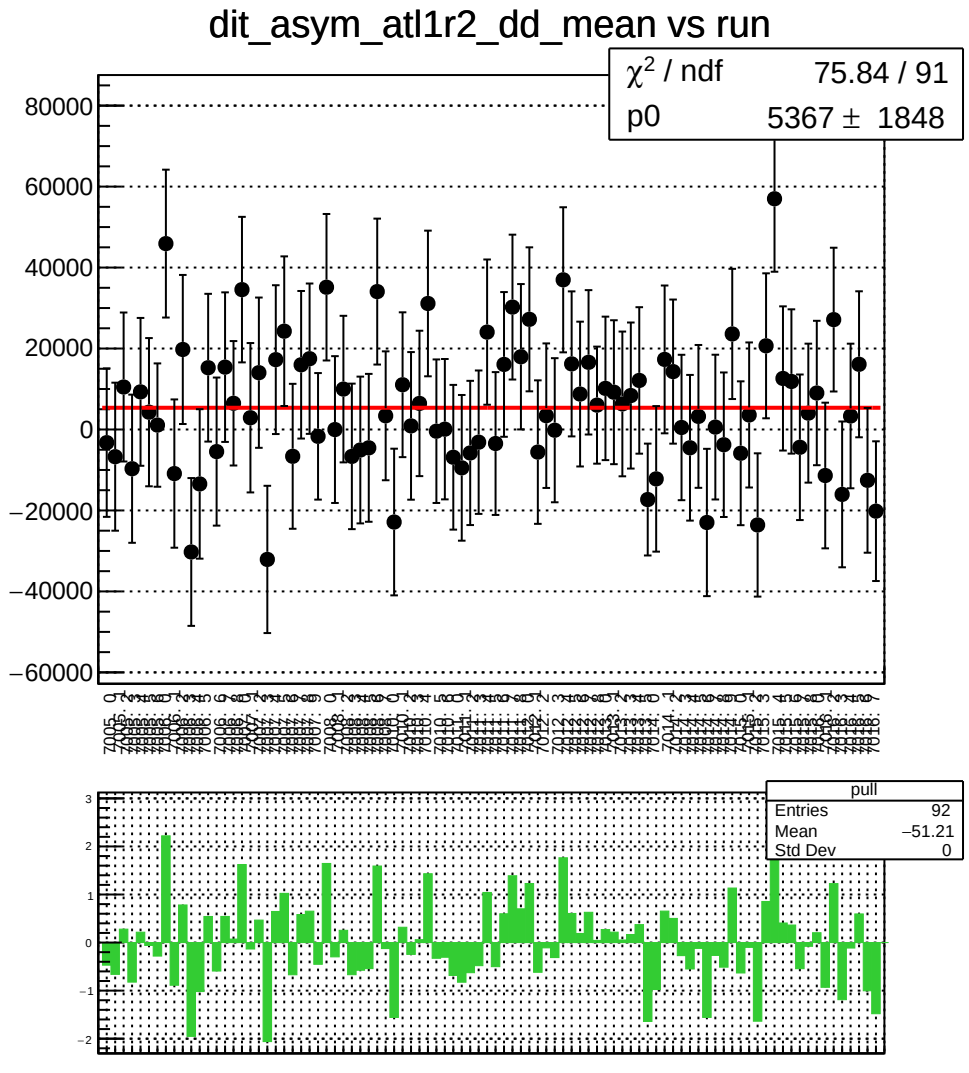

pull1D
Entries 92
Mean 0.00608
Std Dev 0.9045

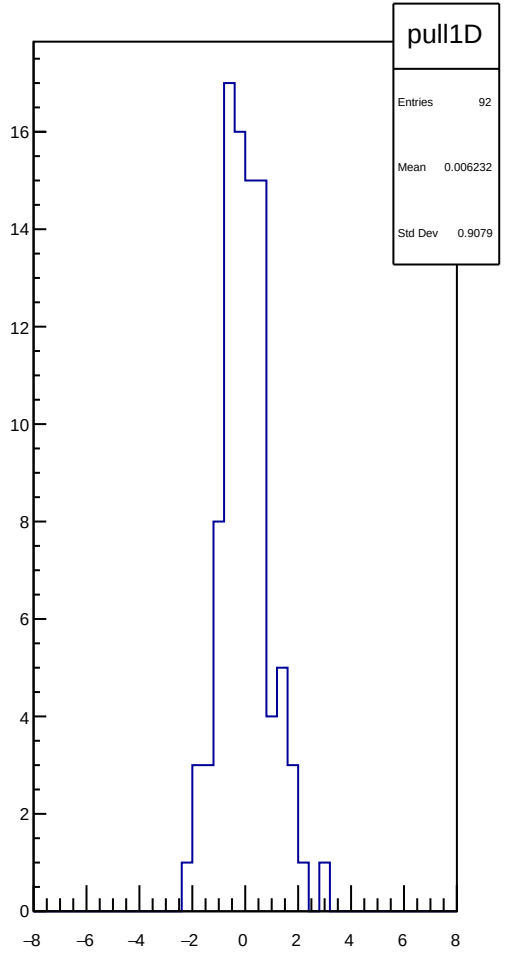

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 298.7 / 91
p0 1688 ± 1.289
1760
1740
1720
1700
1680
1660
1640

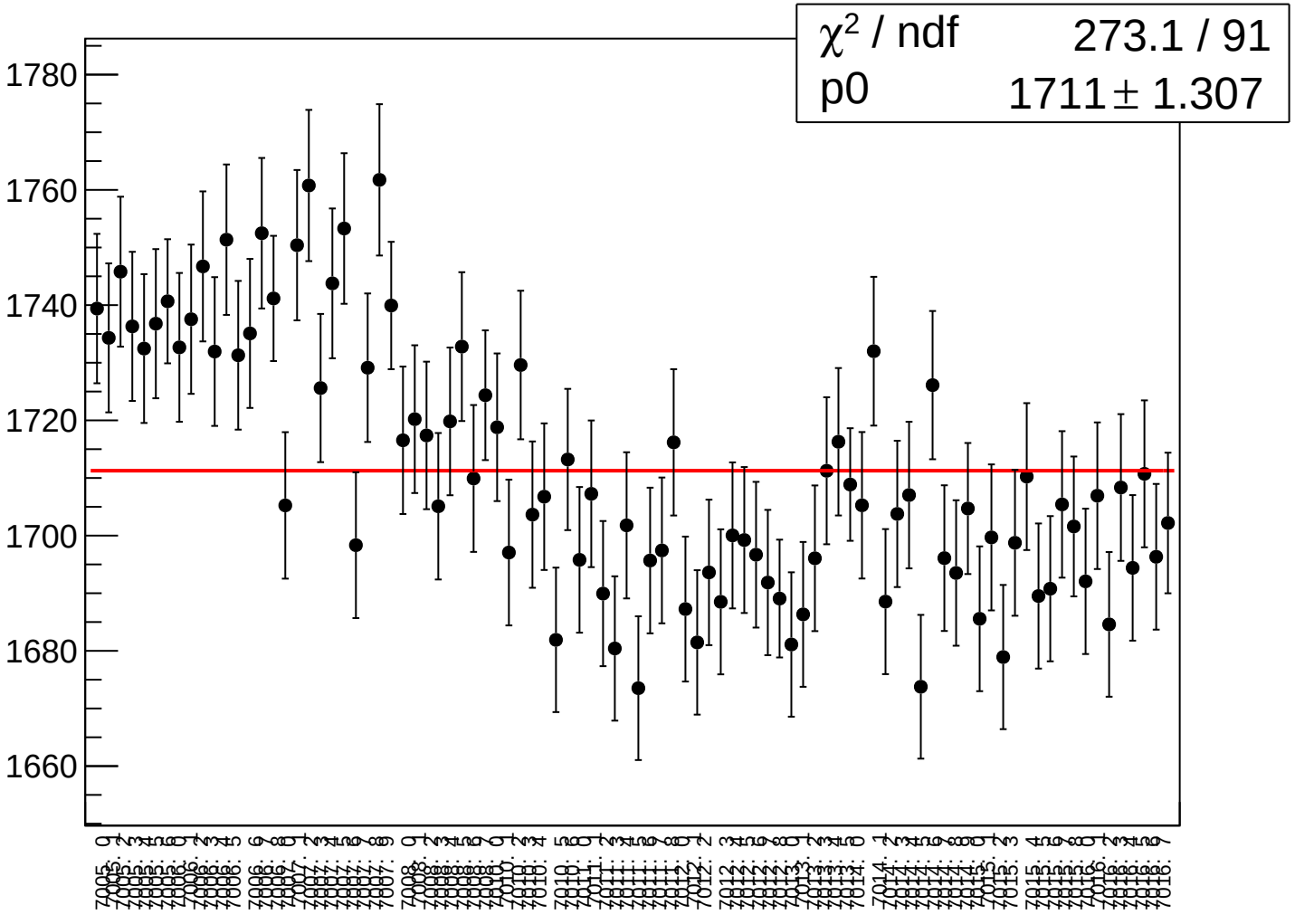

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.06 / 91
p0 1.098e+04 ± 4160
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 358.9
Std Dev 0
2
1
0
−1
−2

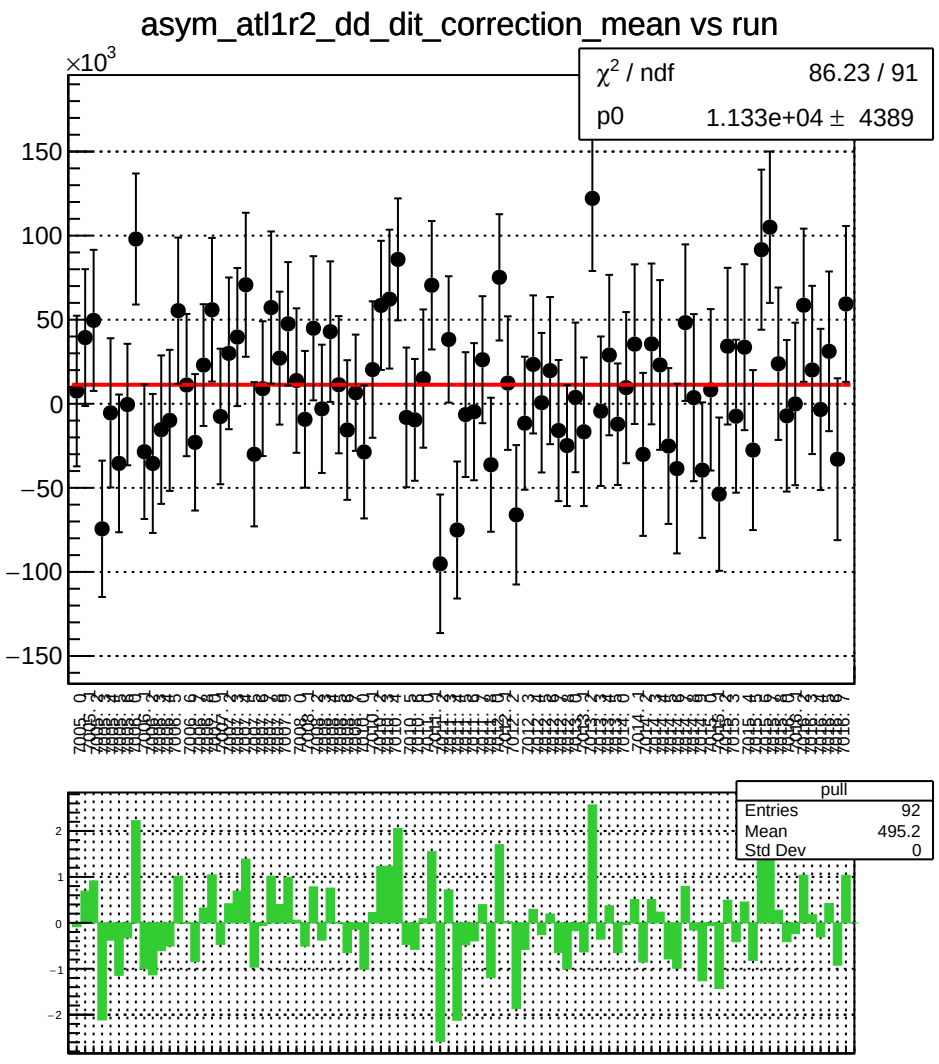

pull1D
Entries 92
Mean 0.001177
Std Dev 0.9616
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

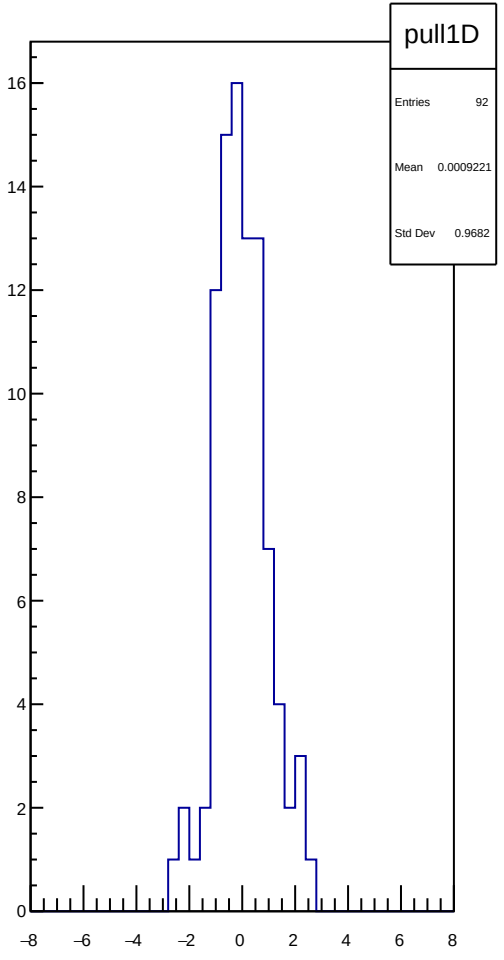

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.066e+04 / 91
p0 3841 ± 2.942
4600
4400
4200
4000
3800
3600
3400
3200

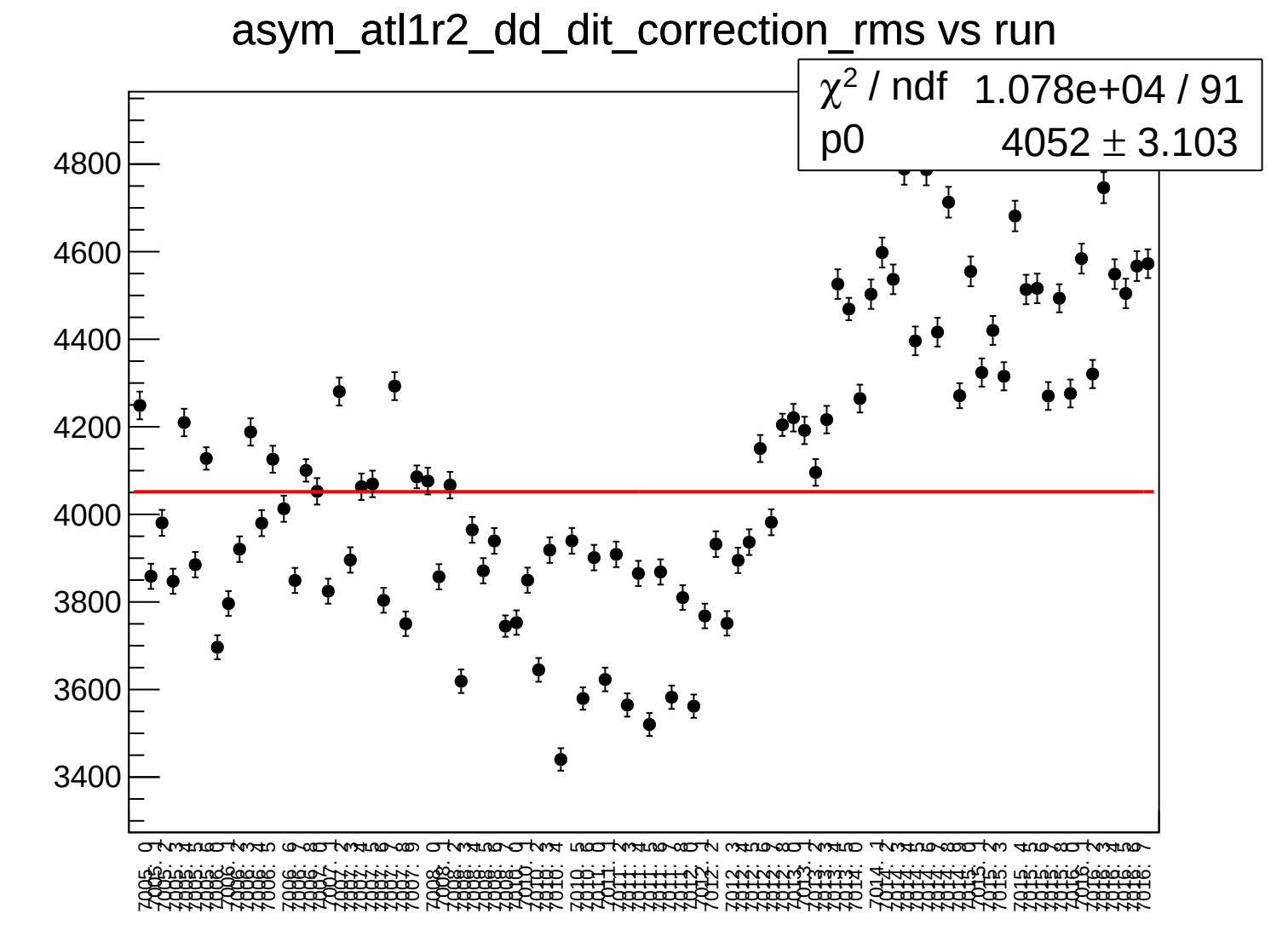

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 75.84 / 91
p0 5367 ± 1848
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −51.21
Std Dev 0
3
2
1
0
−1
−2

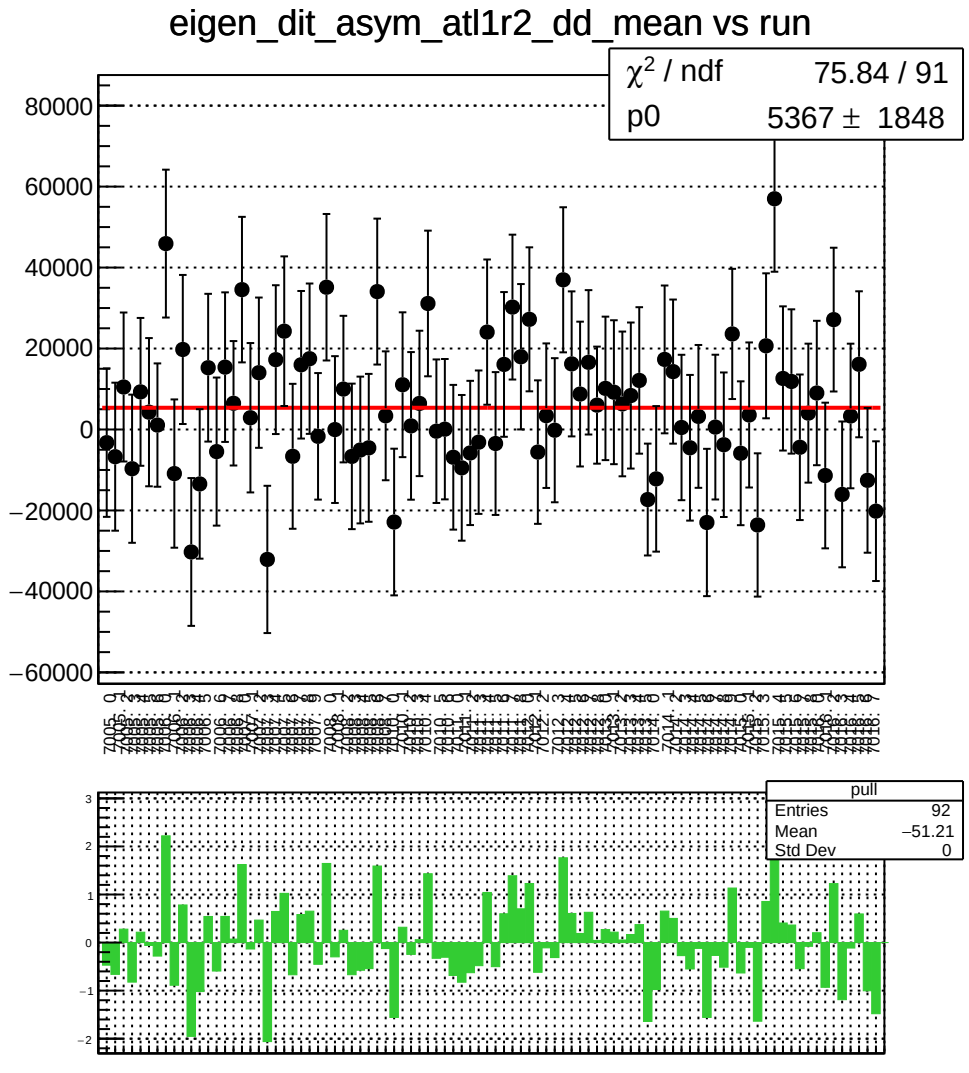

pull1D
Entries 92
Mean 0.006232
Std Dev 0.9079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

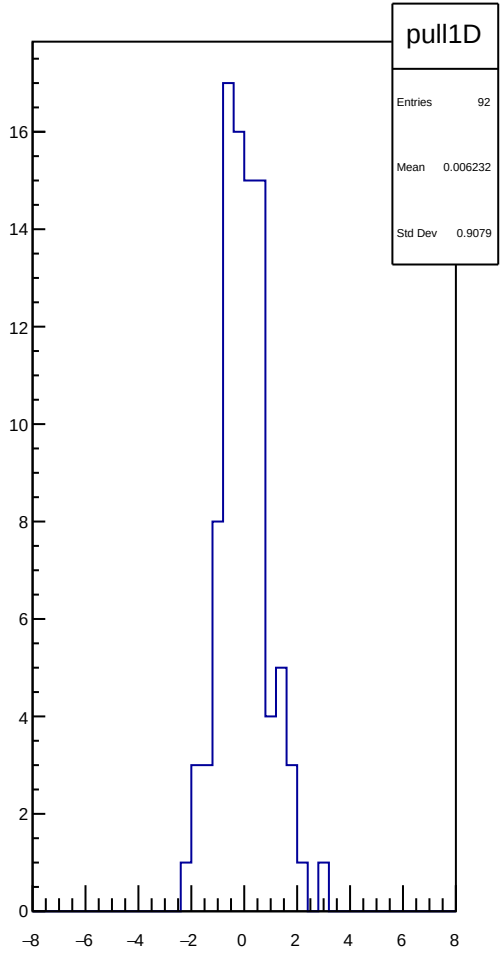

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 273.1 / 91
p0 1711 ± 1.307
1780
1760
1740
1720
1700
1680
1660

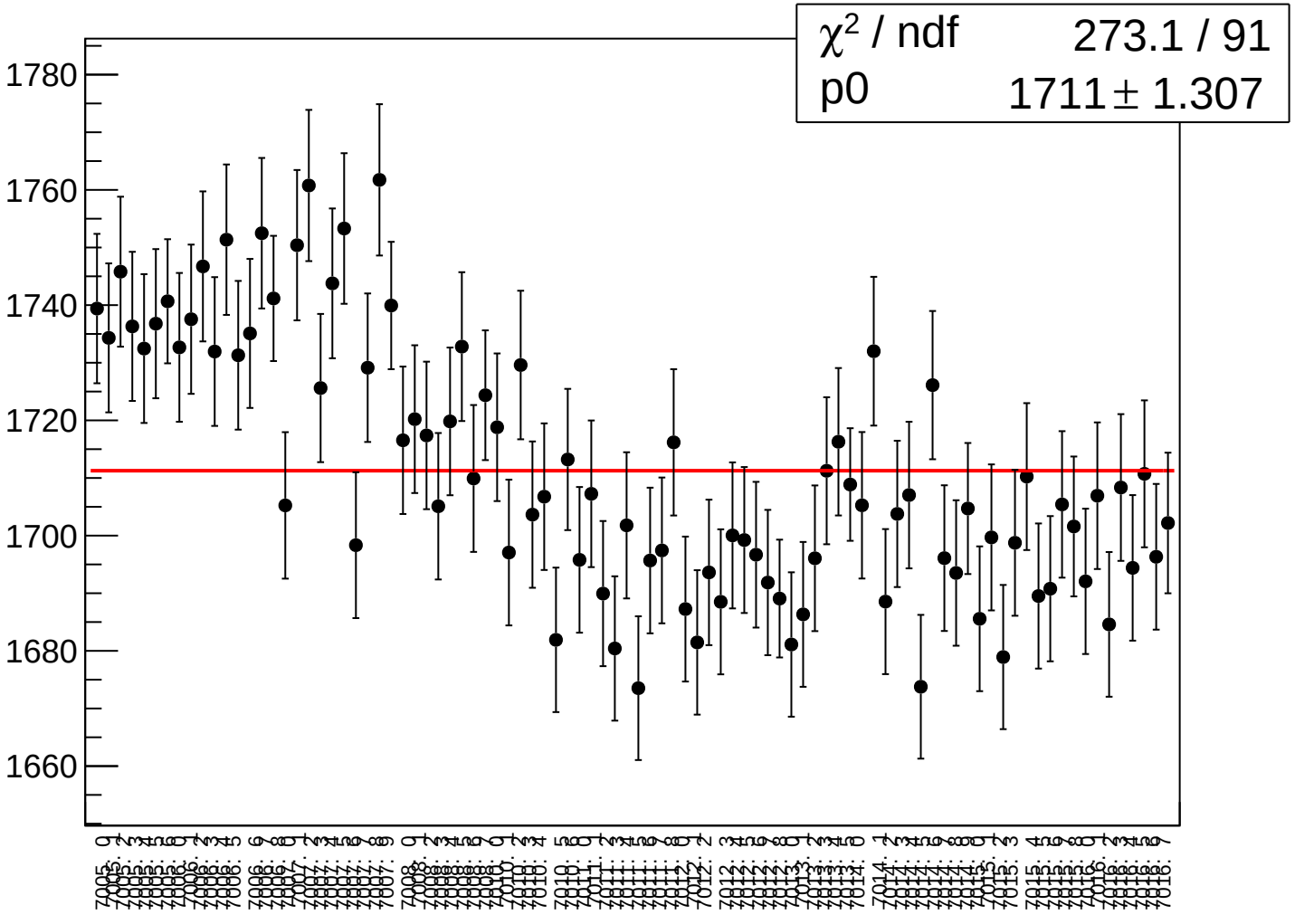

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.23 / 91
p0 1.133e+04 ± 4389
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 495.2
Std Dev 0
2
1
0
−1
−2

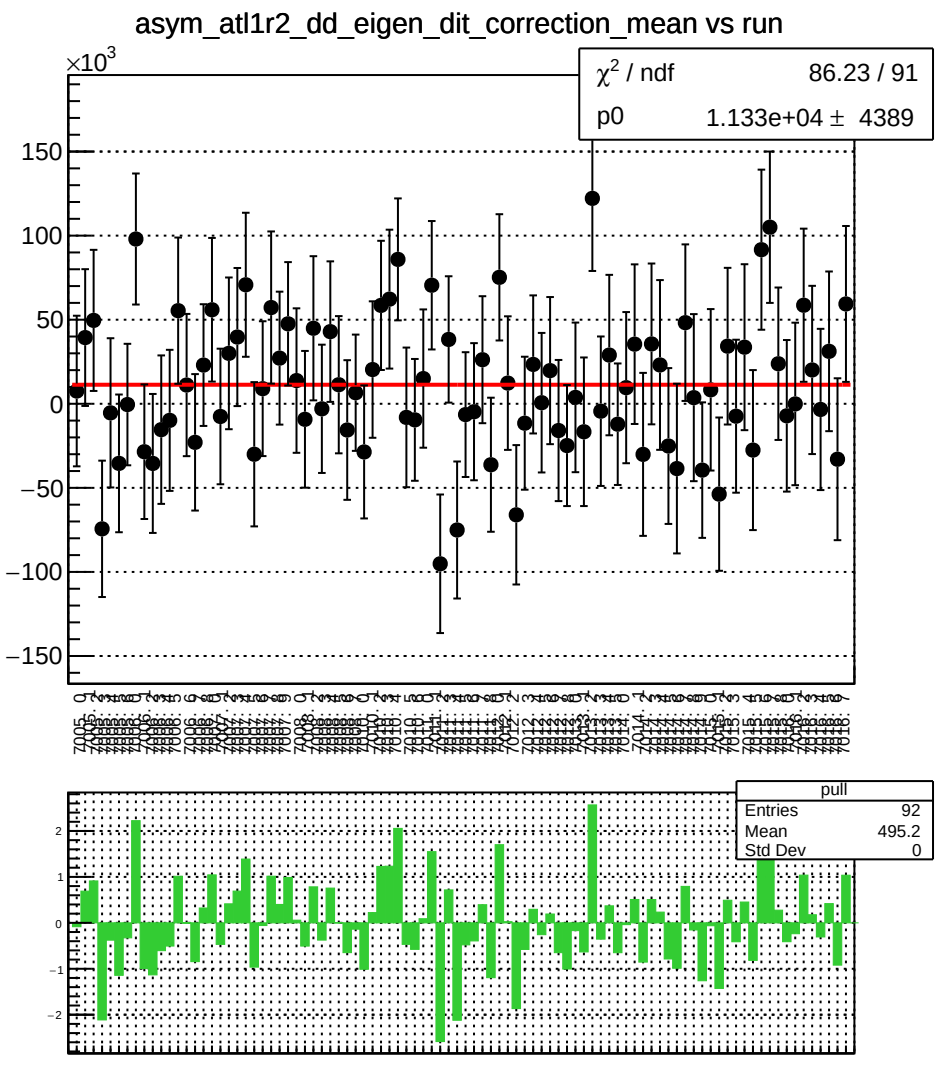

pull1D
Entries 92
Mean 0.0009221
Std Dev 0.9682
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

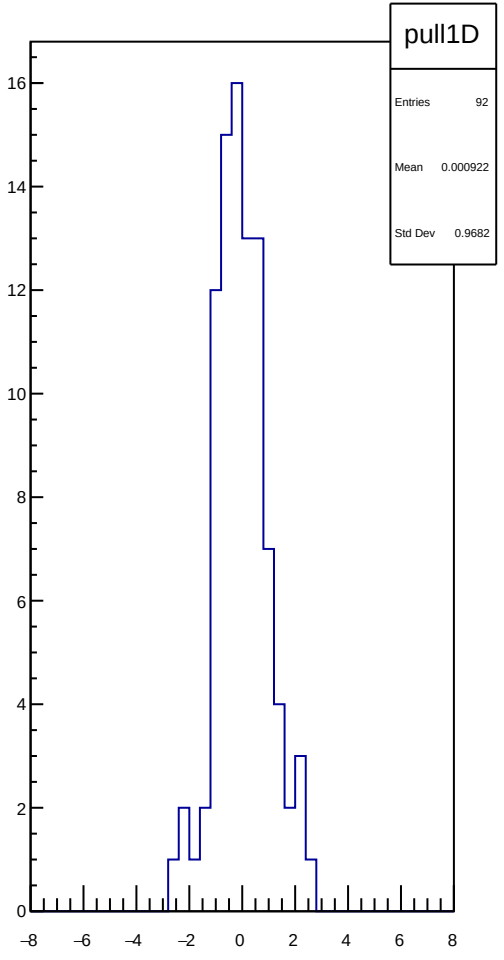

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 1.078e+04 / 91
p0 4052 ± 3.103
4800
4600
4400
4200
4000
3800
3600
3400

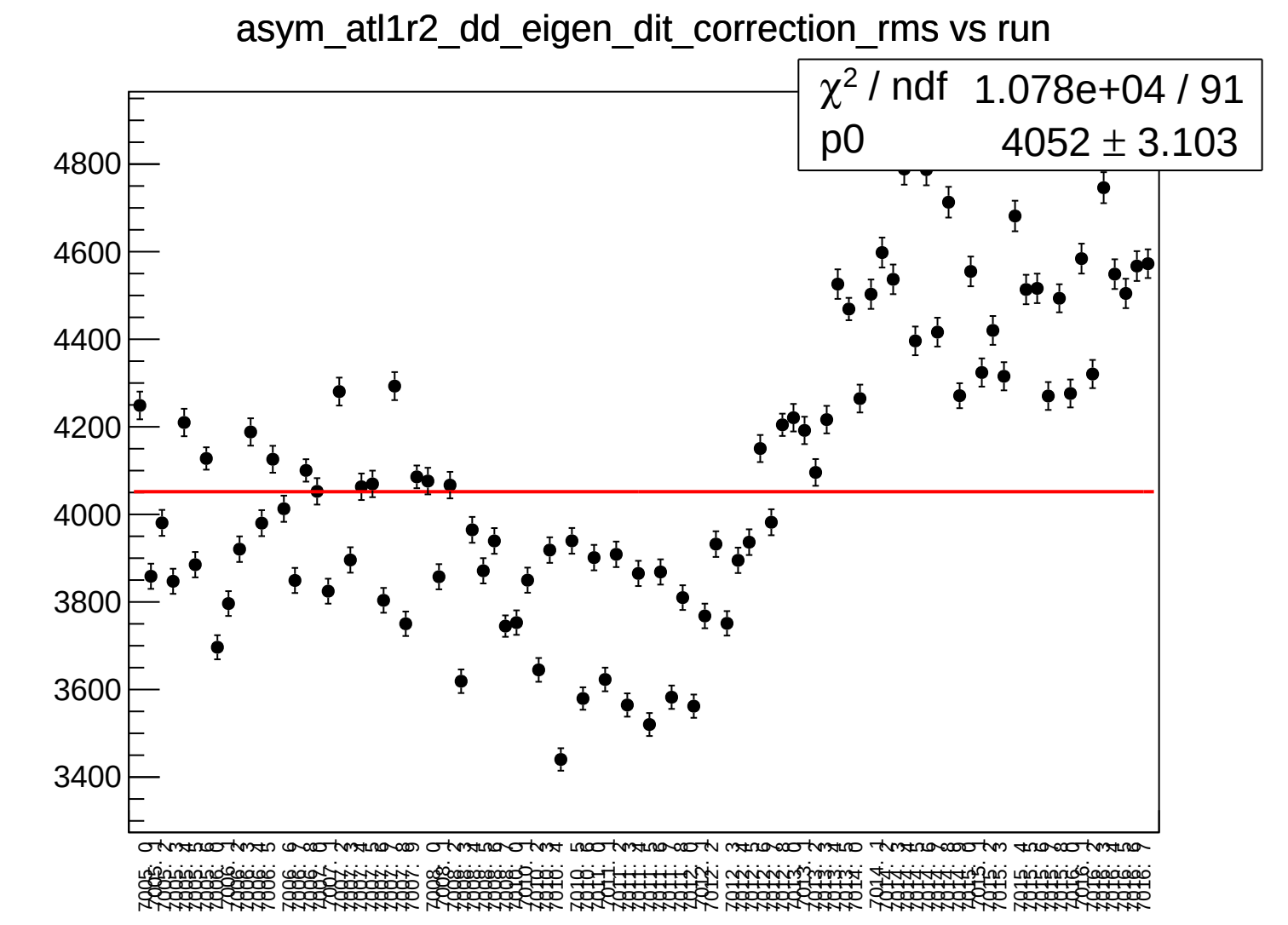

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 75.84 / 91
p0 5367 ± 1848
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −51.21
Std Dev 0
3
2
1
0
−1
−2

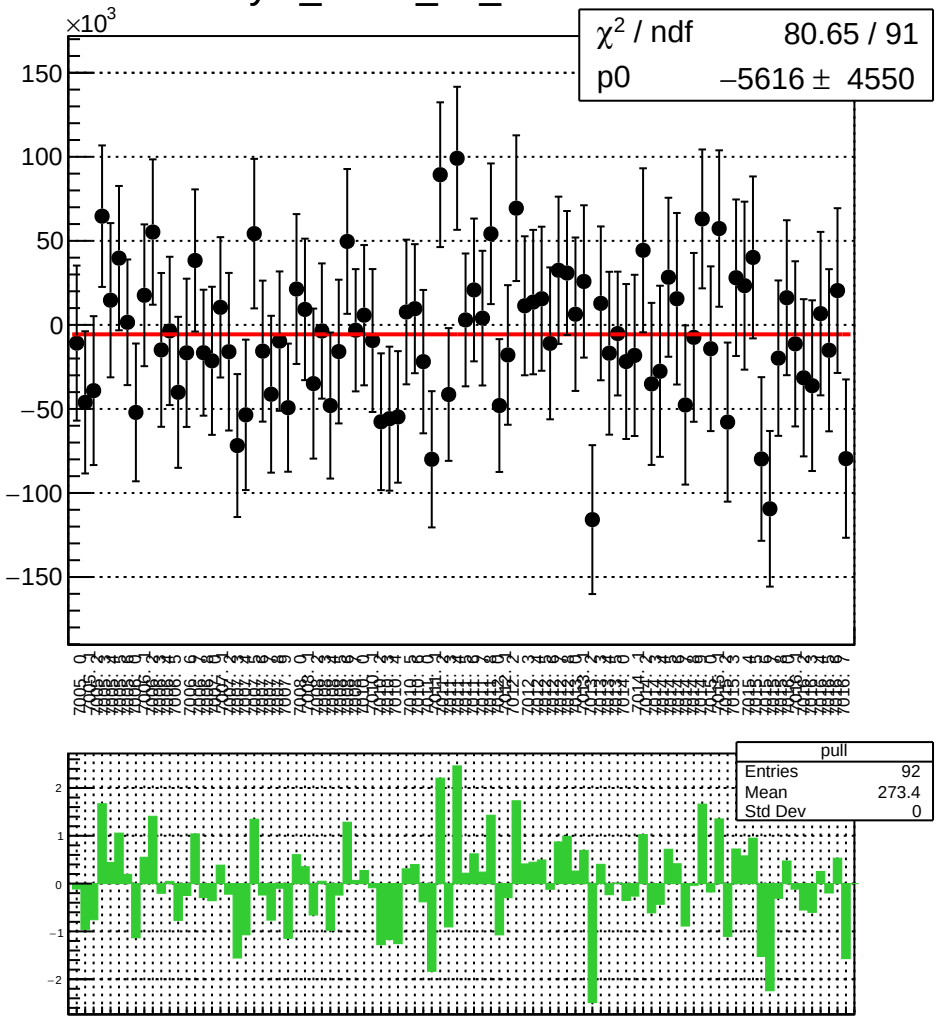

pull1D
Entries 92
Mean 0.006232
Std Dev 0.9079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

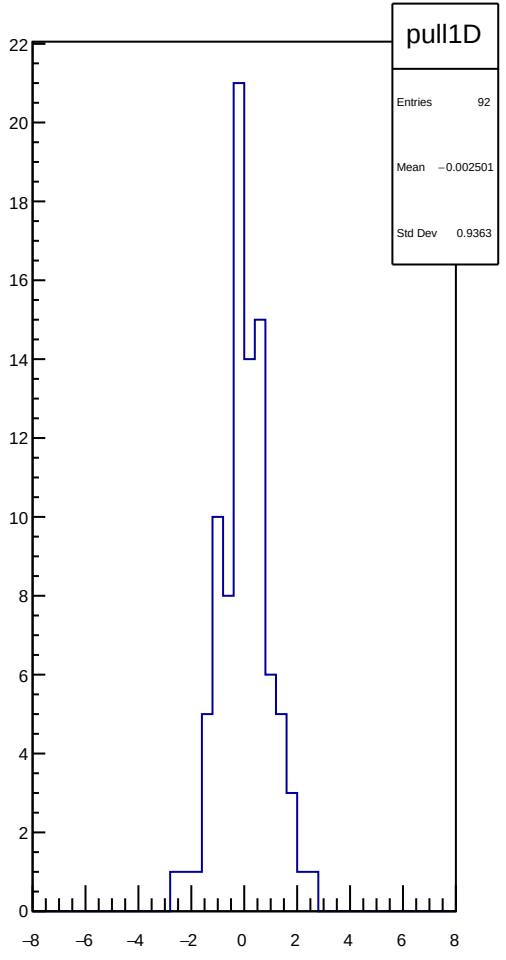

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 273.1 / 91
p0 1711 ± 1.307
1780
1760
1740
1720
1700
1680
1660

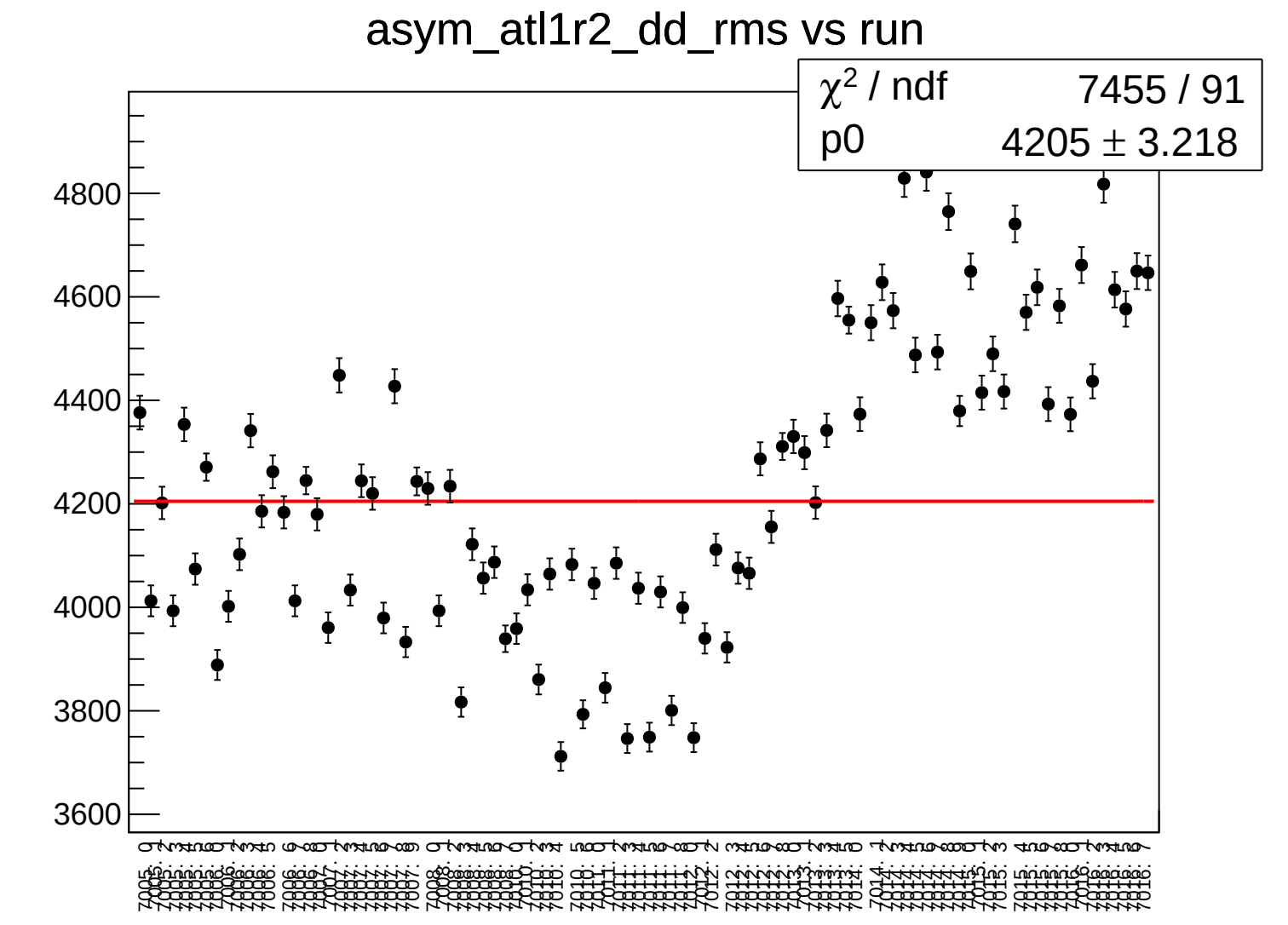

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.23 / 91
p0 1.133e+04 ± 4389
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 495.2
Std Dev 0
2
1
0
−1
−2

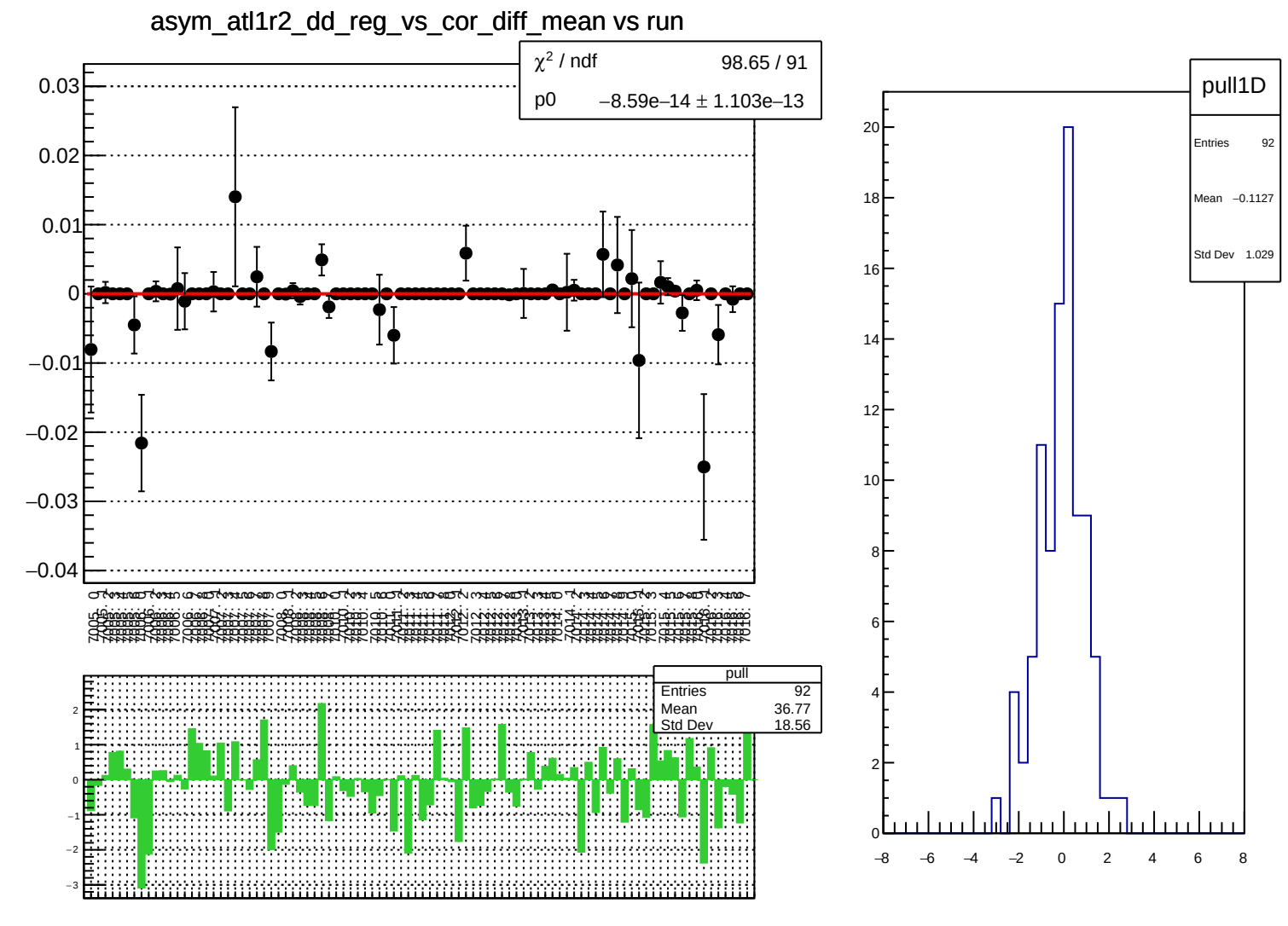

pull1D
Entries 92
Mean 0.000922
Std Dev 0.9682
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

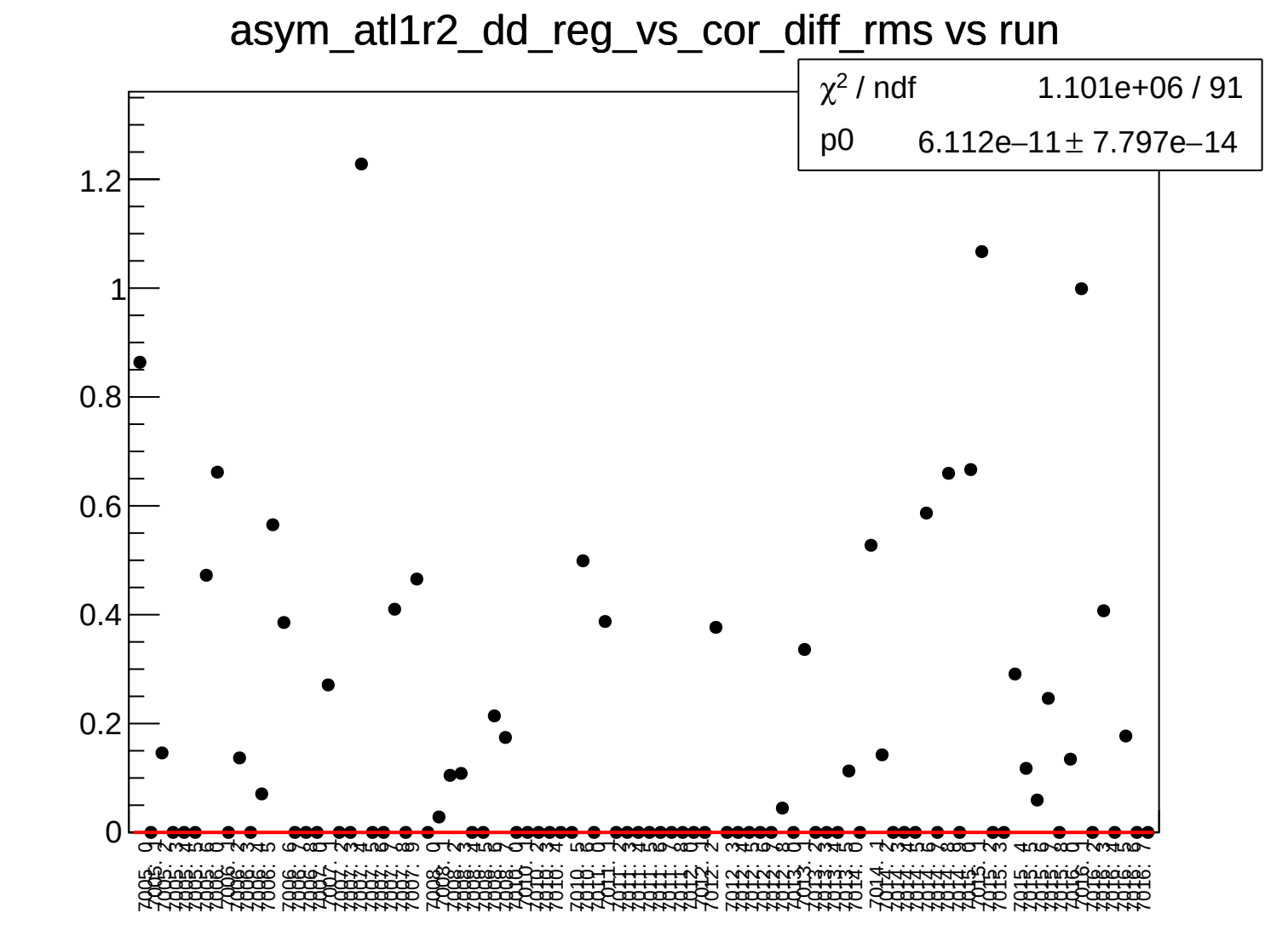

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.078e+04 / 91
p0 4052 ± 3.103
4800
4600
4400
4200
4000
3800
3600
3400

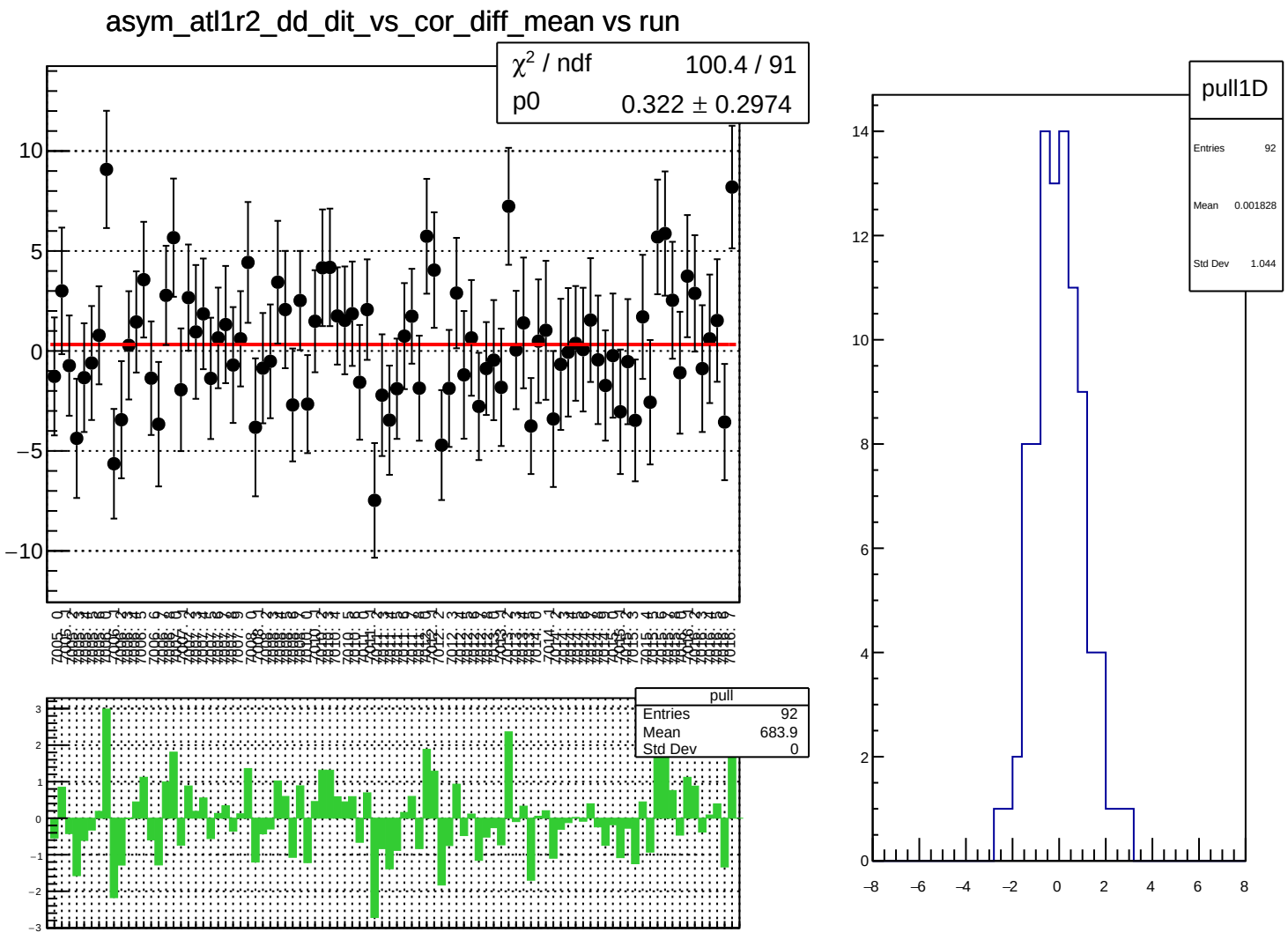

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 80.65 / 91
p0 −5616 ± 4550
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 273.4
Std Dev 0
2
1
0
−1
−2

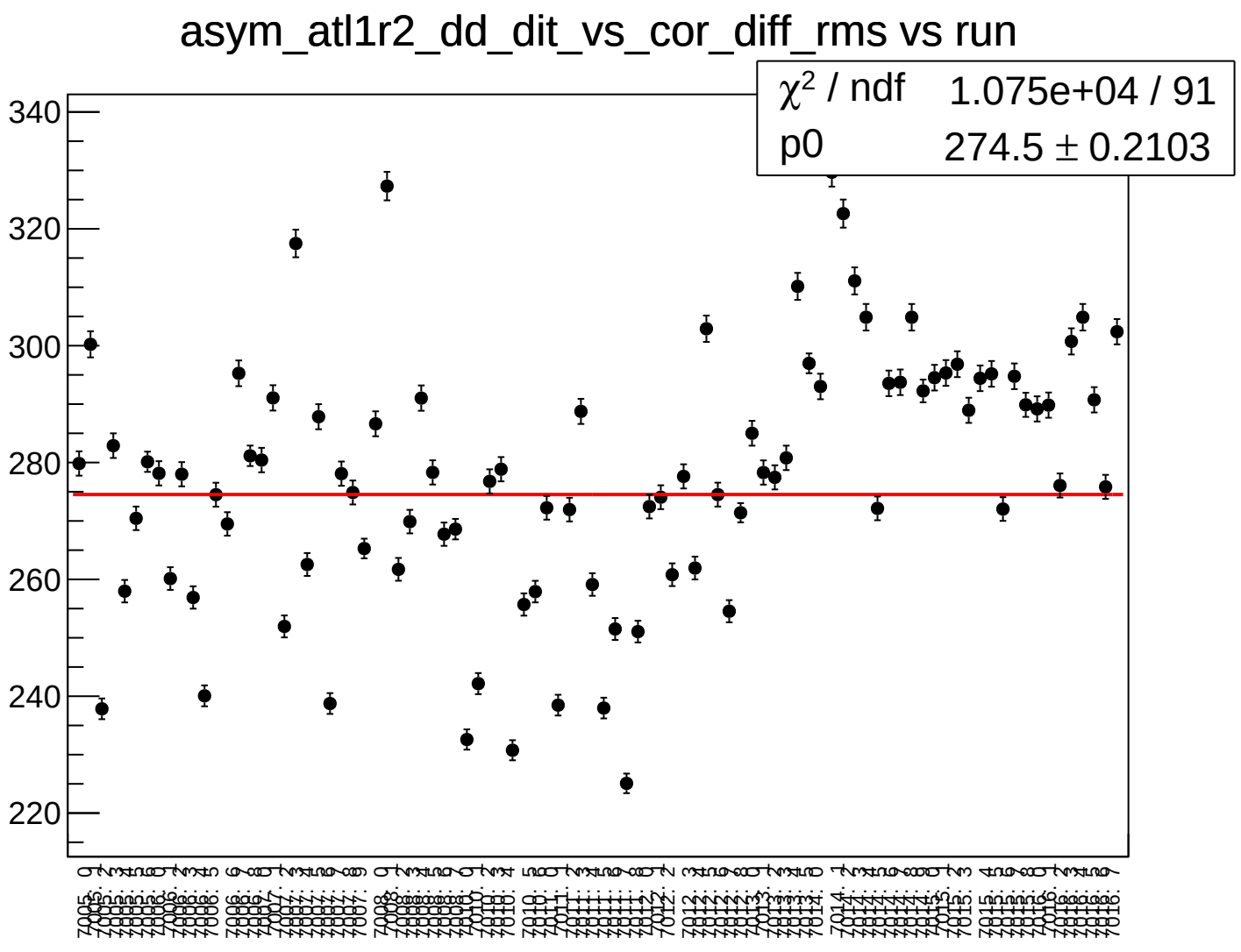

pull1D
Entries 92
Mean −0.002501
Std Dev 0.9363
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

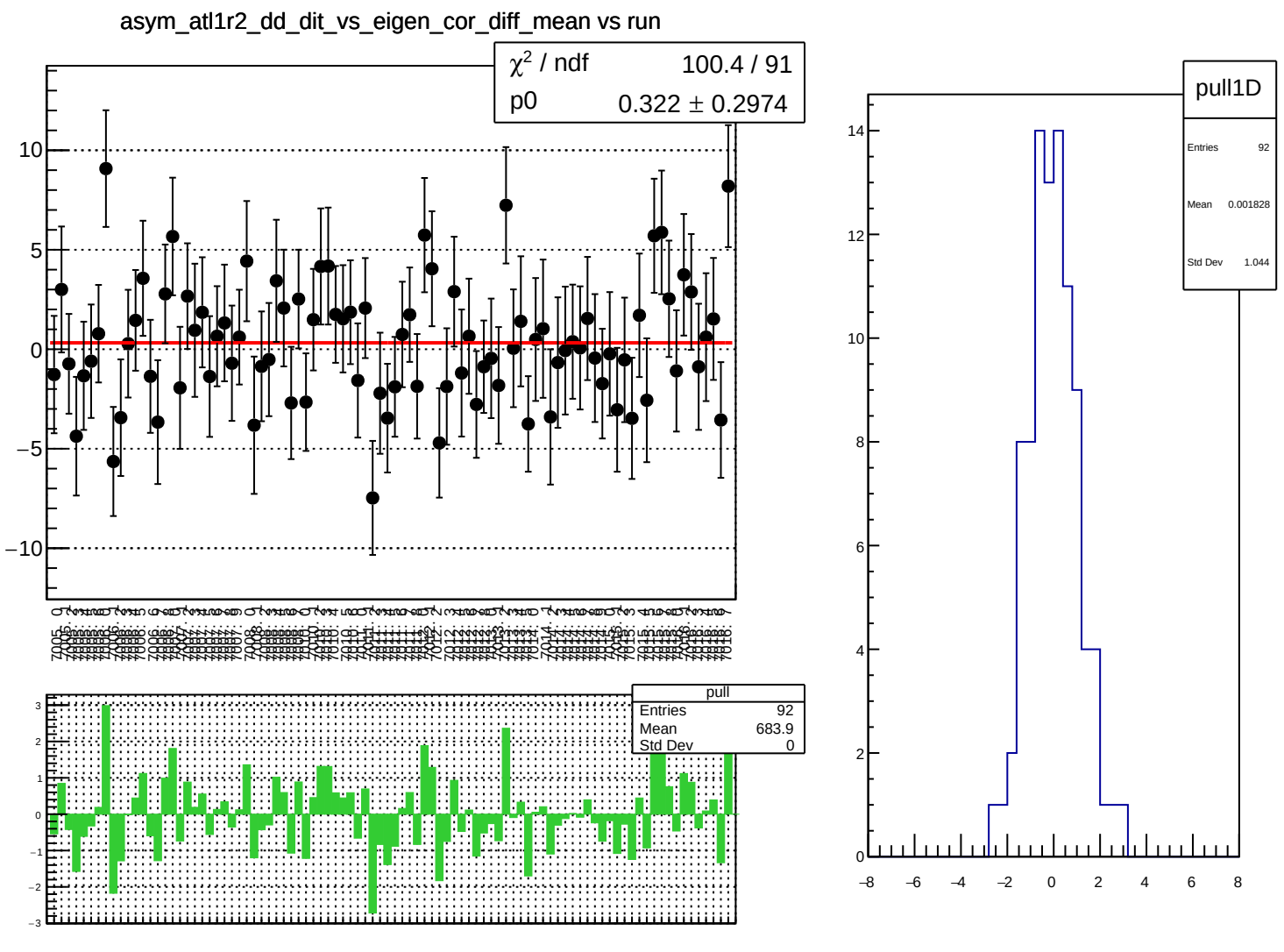

asym_atl1r2_dd_rms vs run
χ² / ndf 7455 / 91
p0 4205 ± 3.218
4800
4600
4400
4200
4000
3800
3600

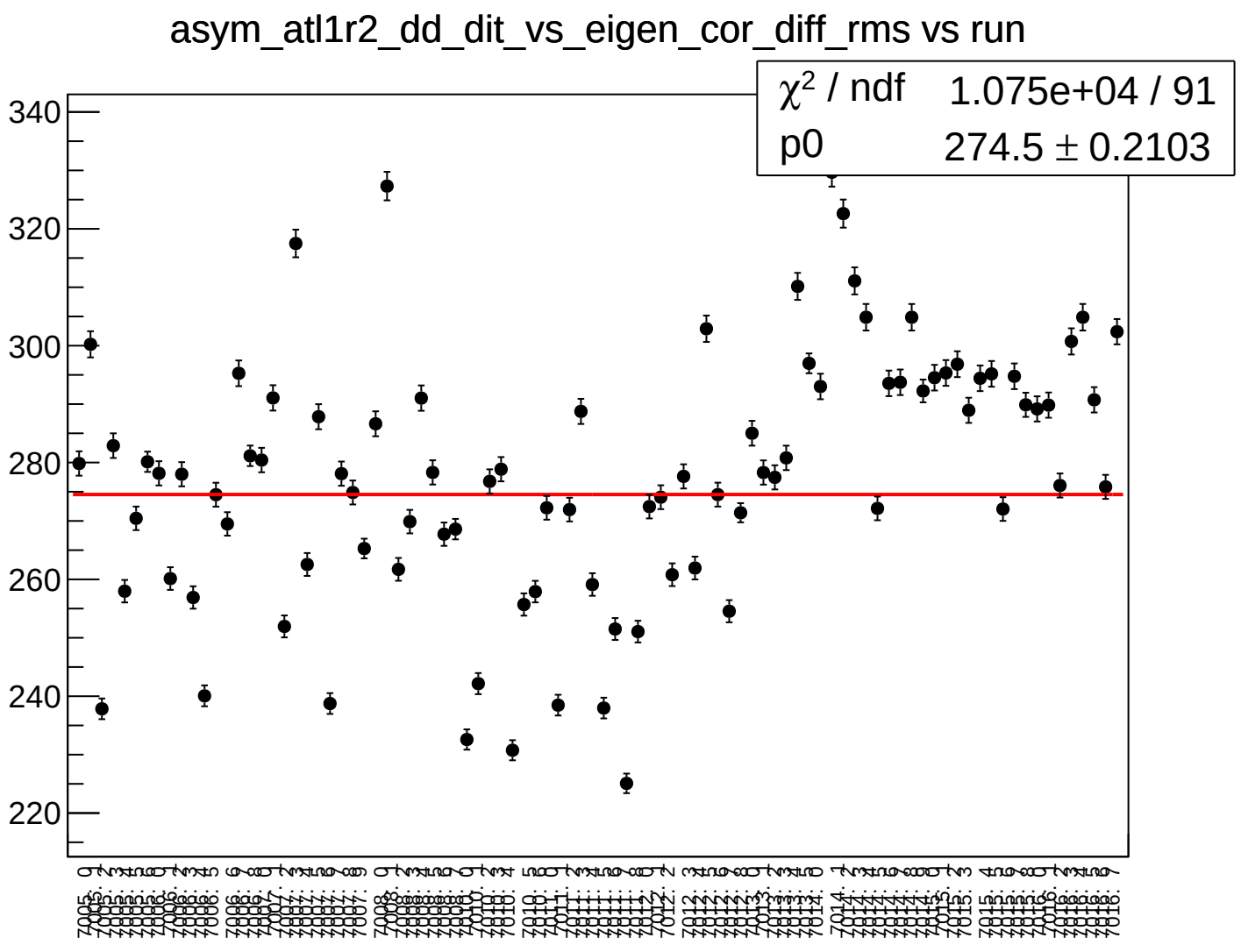

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.65 / 91
p0 −8.59e−14 ± 1.103e−13
pull
Entries 92
Mean 36.77
Std Dev 18.56
pull1D
Entries 92
Mean −0.1127
Std Dev 1.029

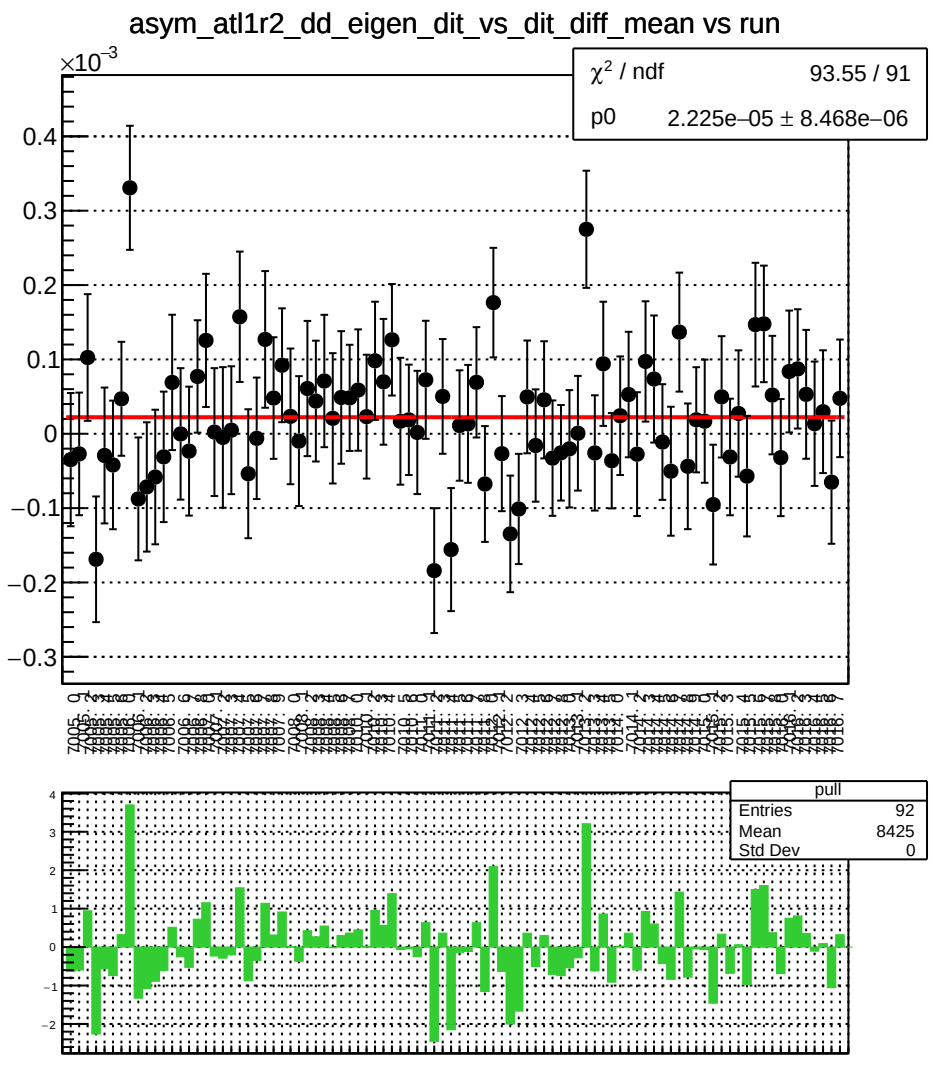

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.101e+06 / 91
p0 6.112e−11 ± 7.797e−14
1.2
1
0.8
0.6
0.4
0.2
0

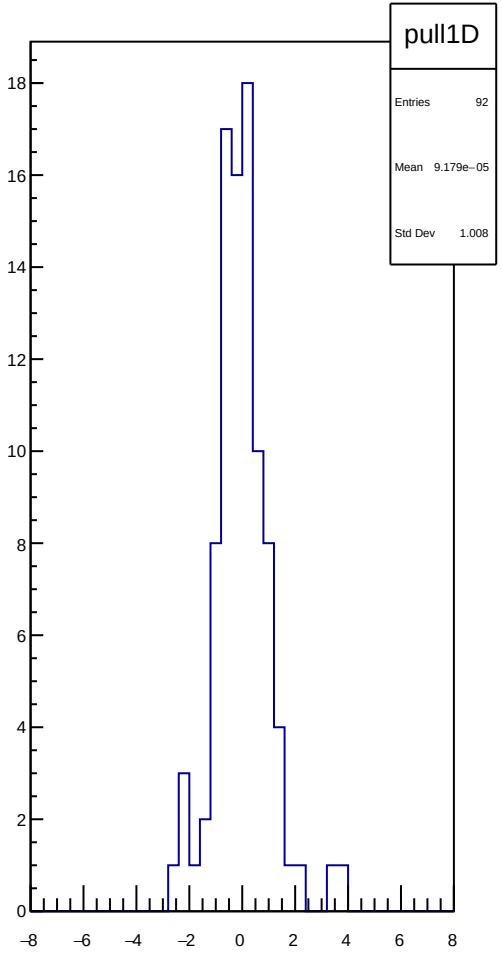

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 91
p0 0.322 ± 0.2974
pull
Entries 92
Mean 683.9
Std Dev 0
pull1D
Entries 92
Mean 0.001828
Std Dev 1.044

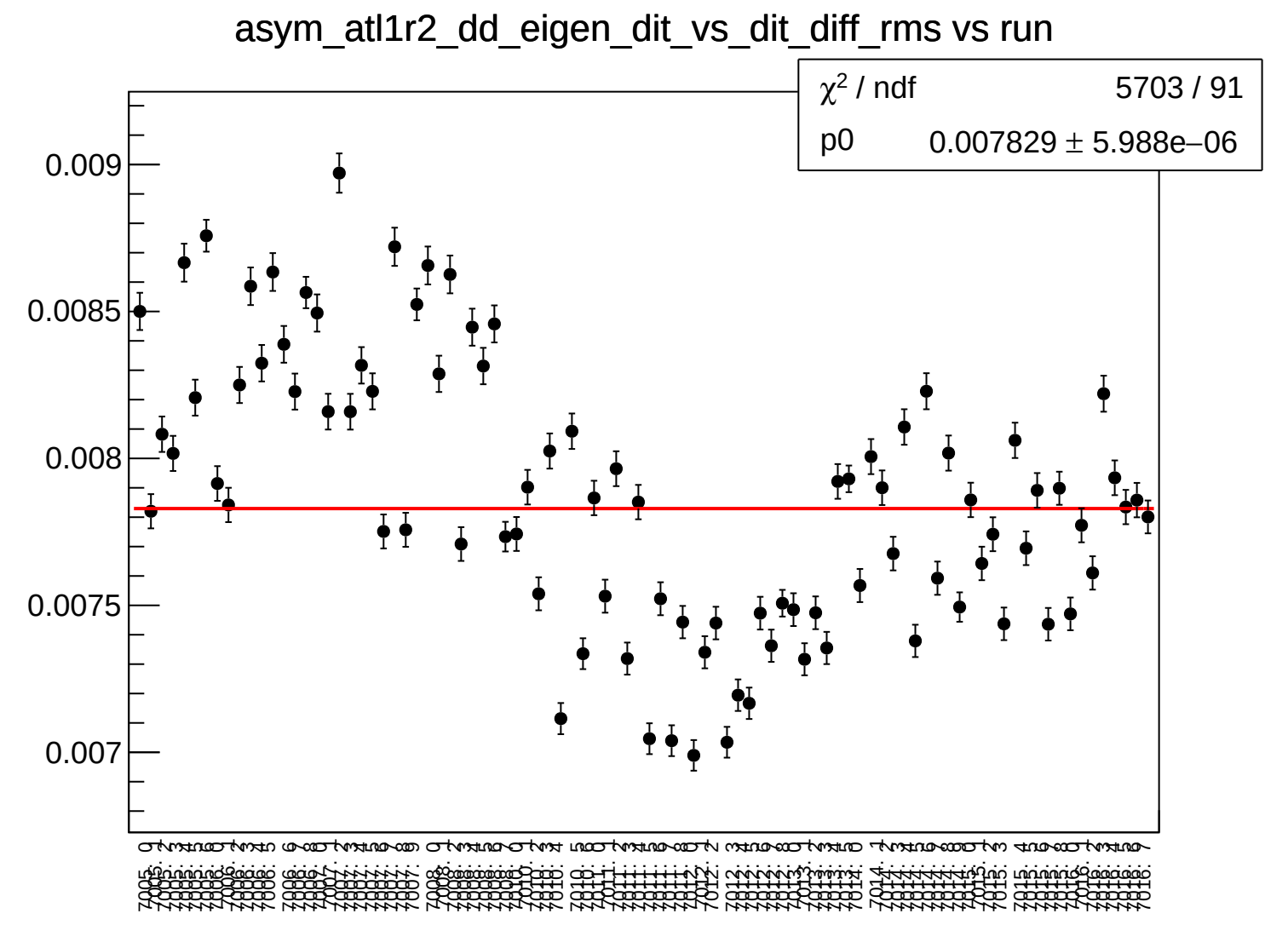

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.075e+04 / 91
p0 274.5 ± 0.2103
340
320
300
280
260
240
220

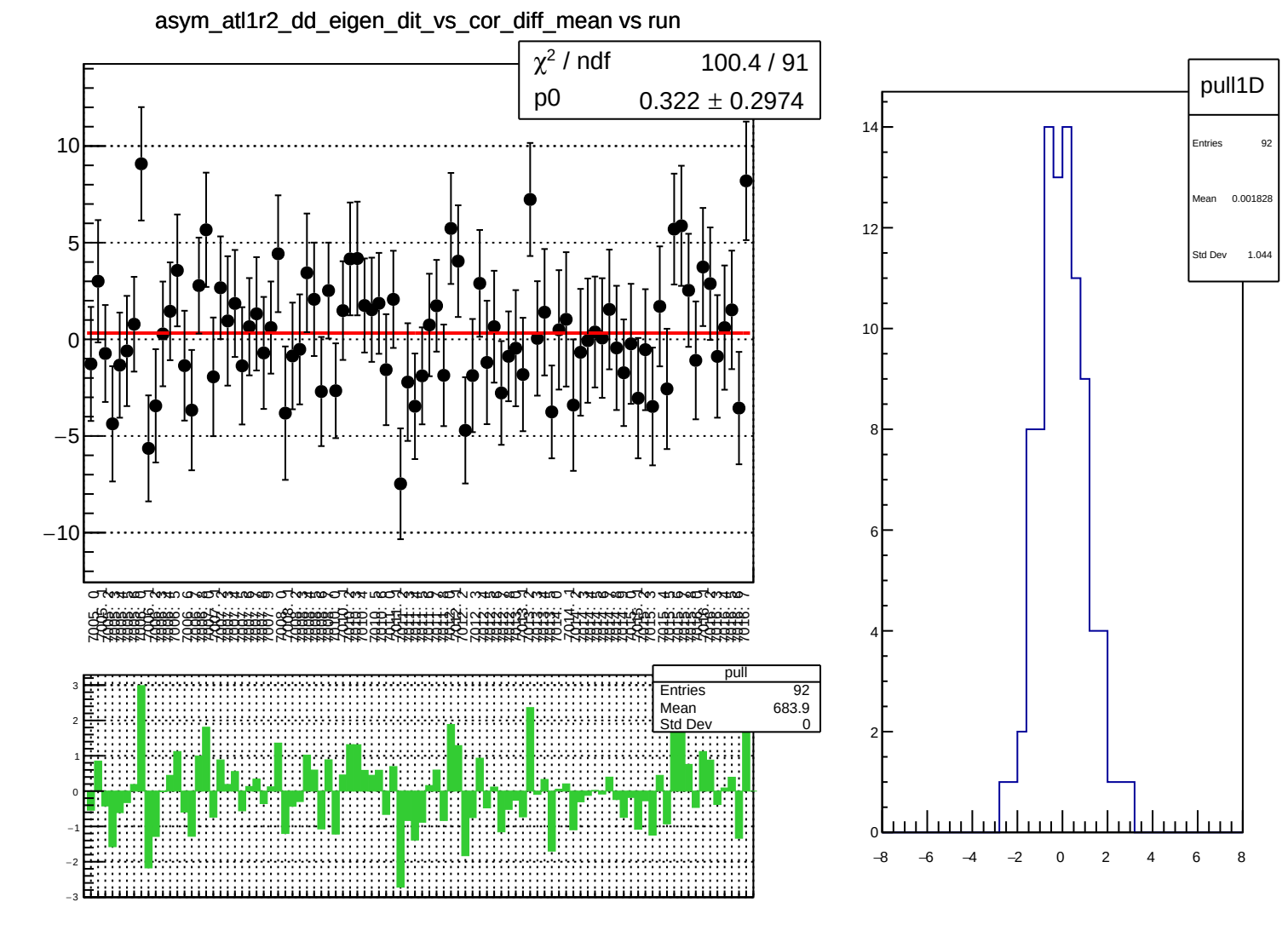

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 91
p0 0.322 ± 0.2974
pull
Entries 92
Mean 683.9
Std Dev 0
pull1D
Entries 92
Mean 0.001828
Std Dev 1.044

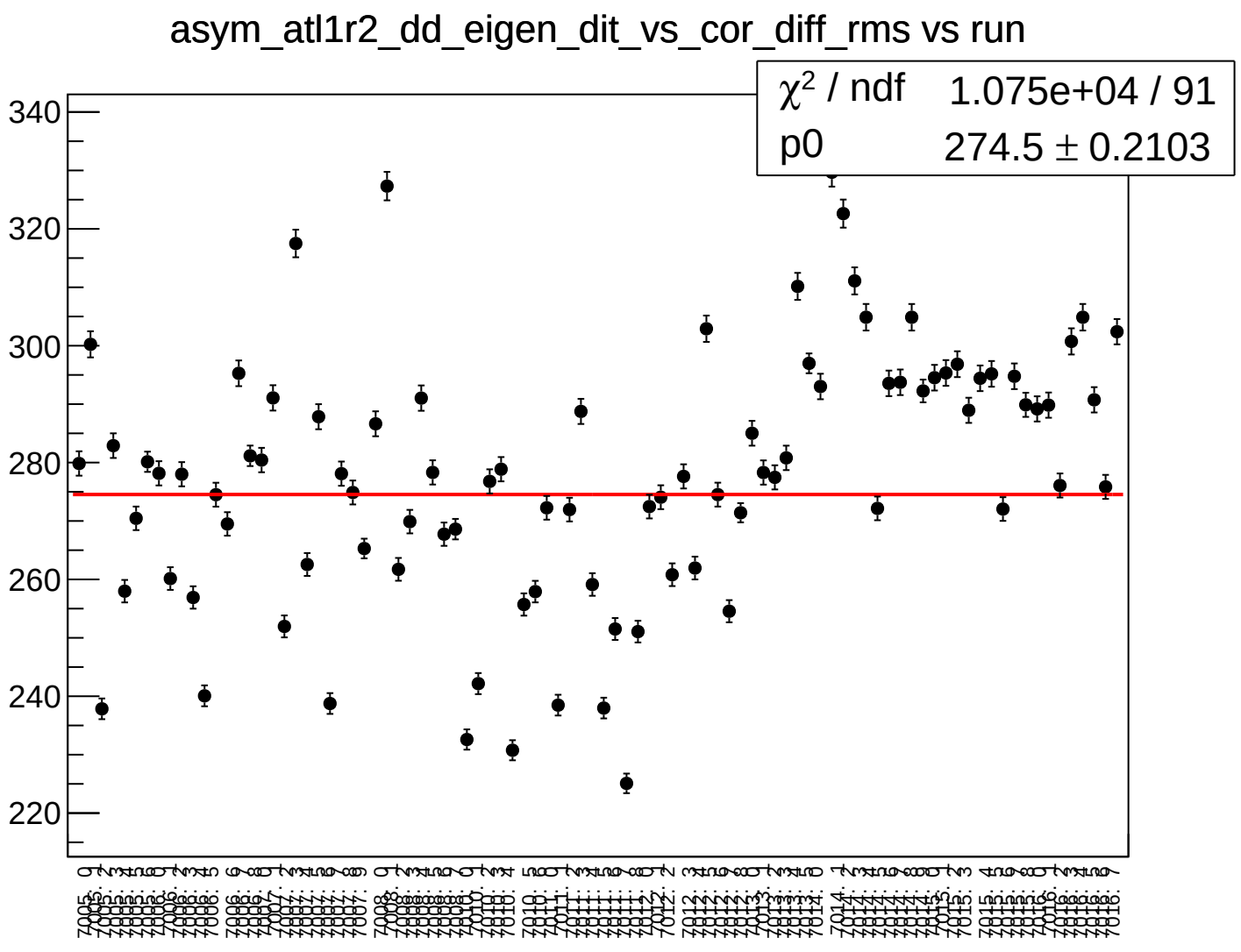

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.075e+04 / 91
p0 274.5 ± 0.2103
340
320
300
280
260
240
220

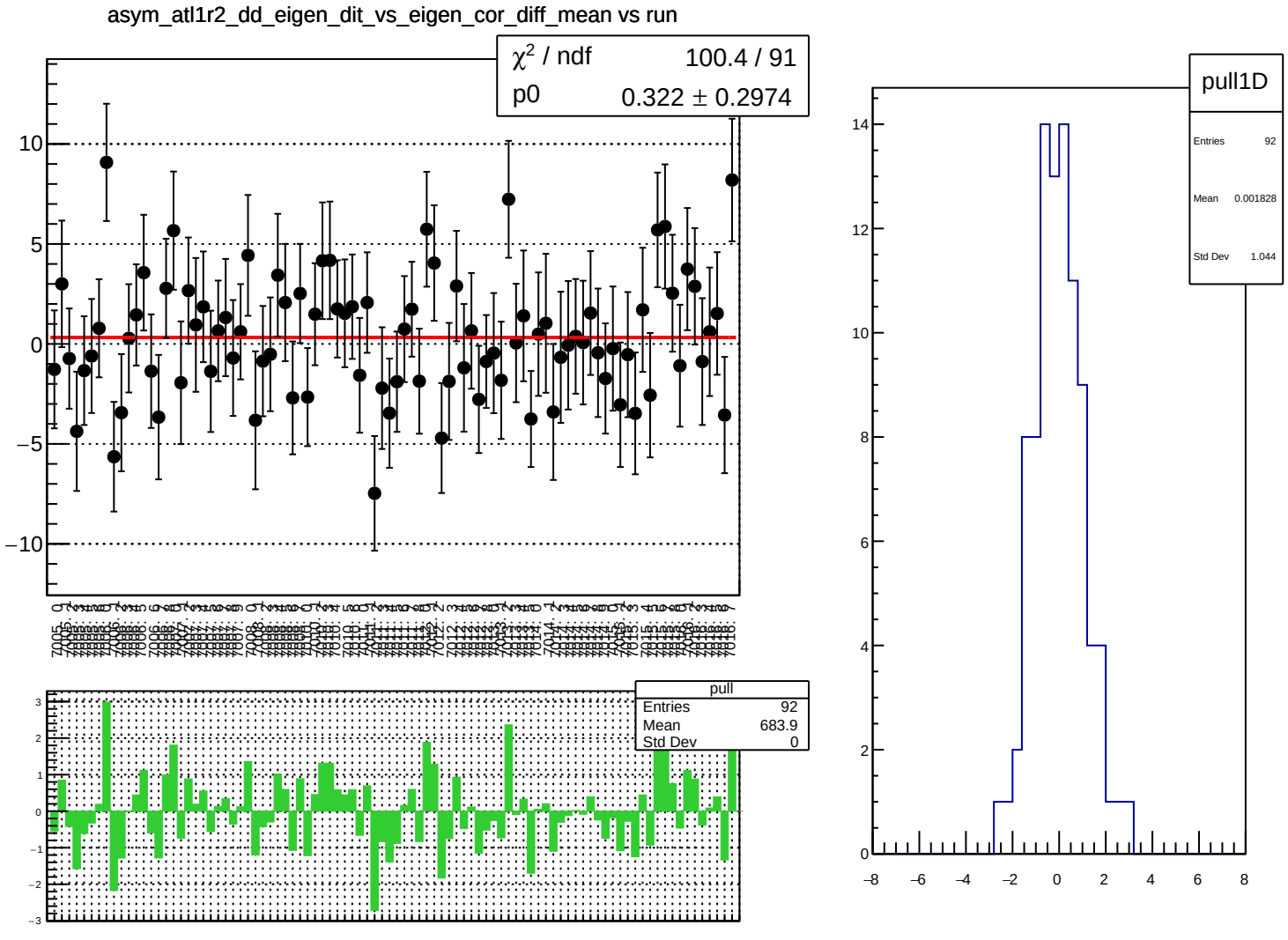

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.55 / 91
p0 2.225e−05 ± 8.468e−06
pull
Entries 92
Mean 8425
Std Dev 0

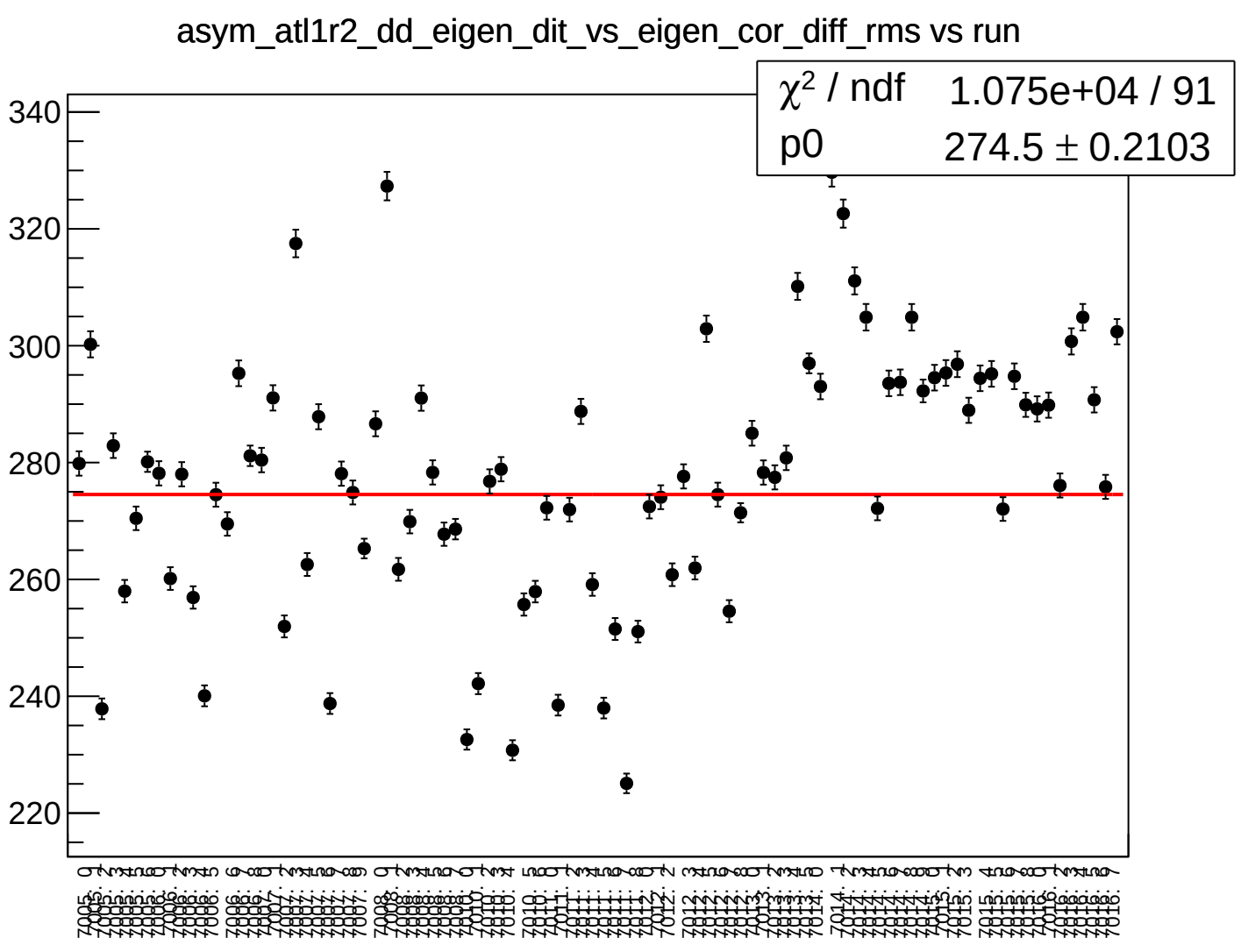

pull1D
Entries 92
Mean 9.179e−05
Std Dev 1.008

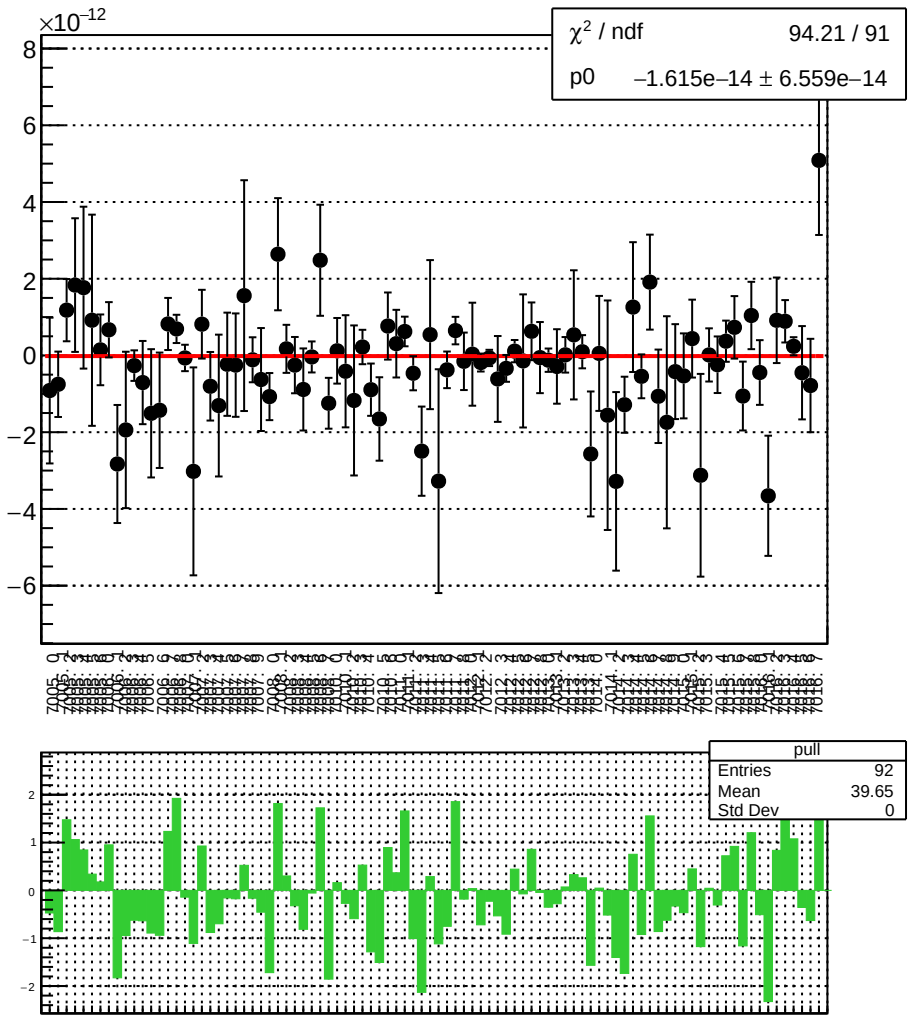

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5703 / 91
p0 0.007829 ± 5.988e−06
0.009
0.0085
0.008
0.0075
0.007

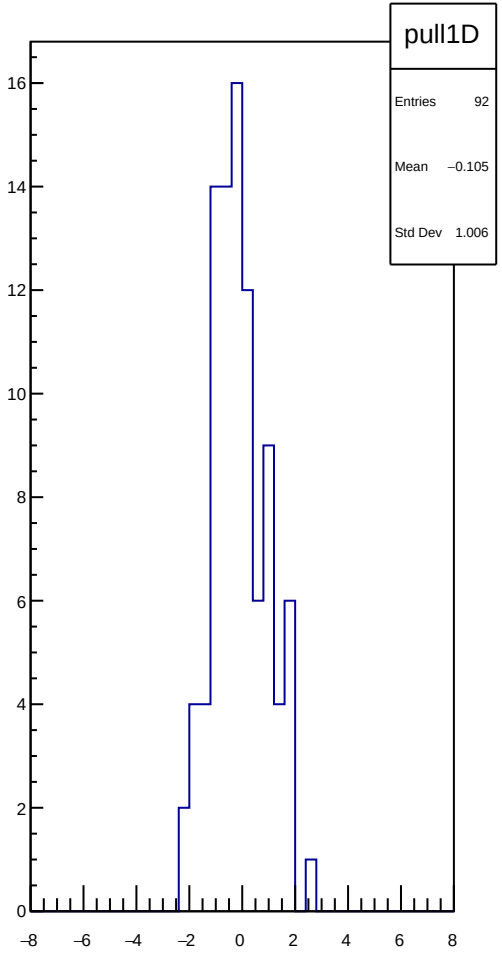

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 91
p0 0.322 ± 0.2974
pull
Entries 92
Mean 683.9
Std Dev 0
pull1D
Entries 92
Mean 0.001828
Std Dev 1.044

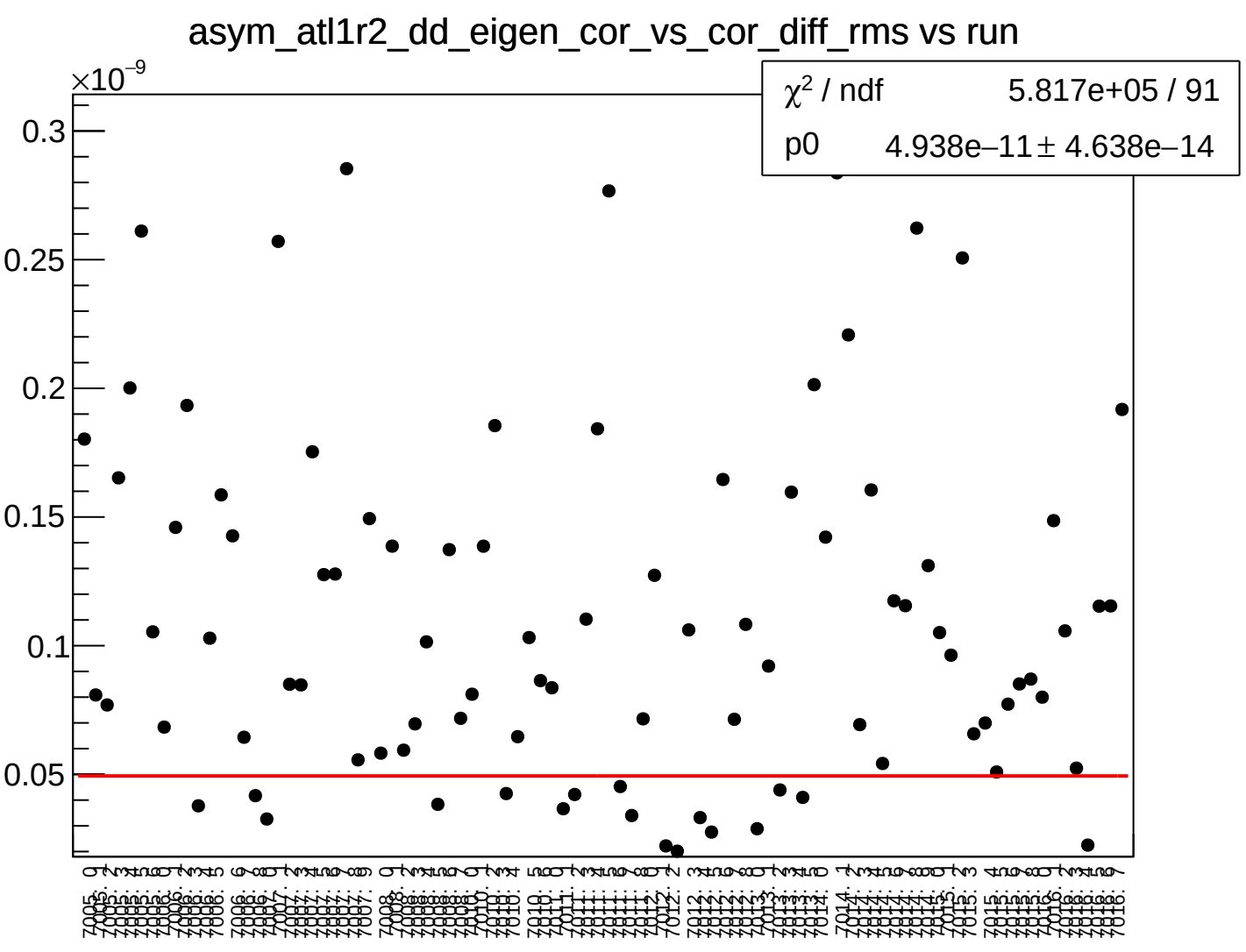

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.075e+04 / 91
p0 274.5 ± 0.2103
340
320
300
280
260
240
220

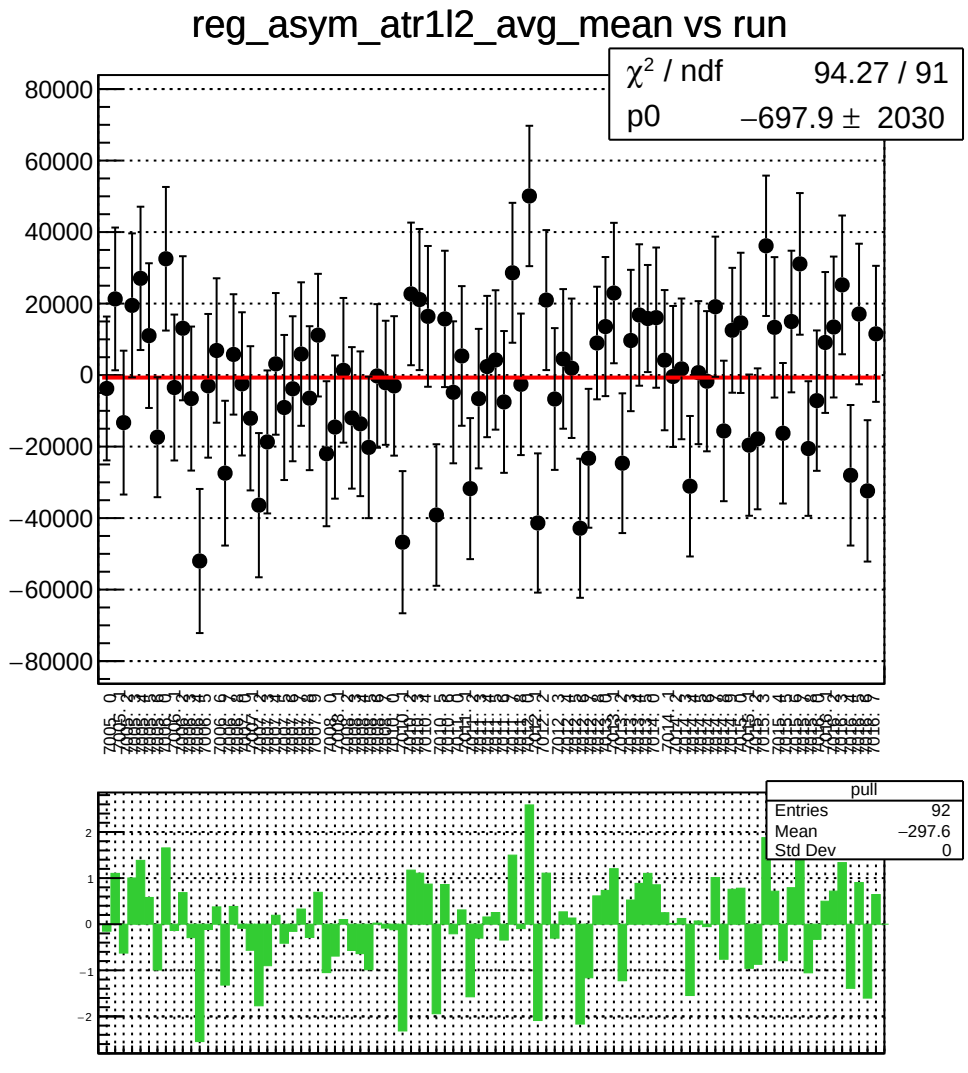

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 91
p0 0.322 ± 0.2974
pull
Entries 92
Mean 683.9
Std Dev 0
pull1D
Entries 92
Mean 0.001828
Std Dev 1.044

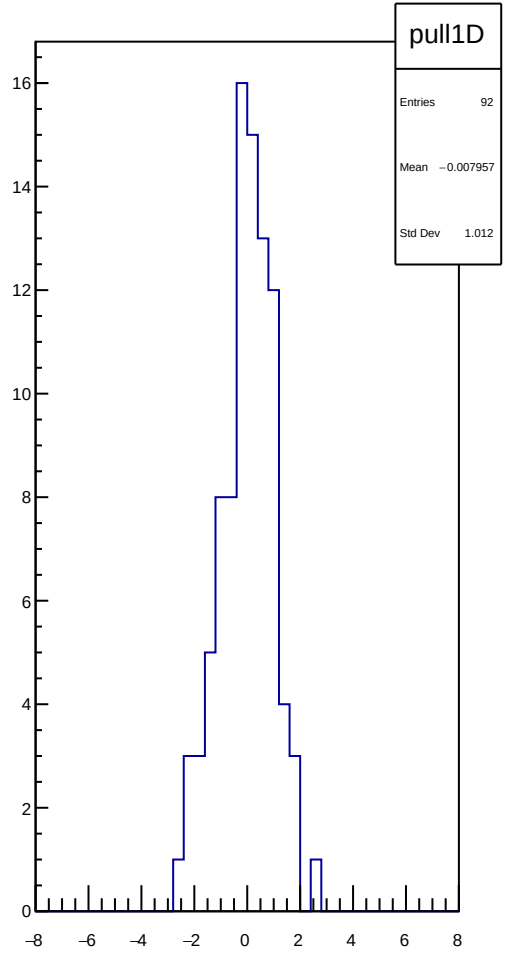

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.075e+04 / 91
p0 274.5 ± 0.2103
340
320
300
280
260
240
220

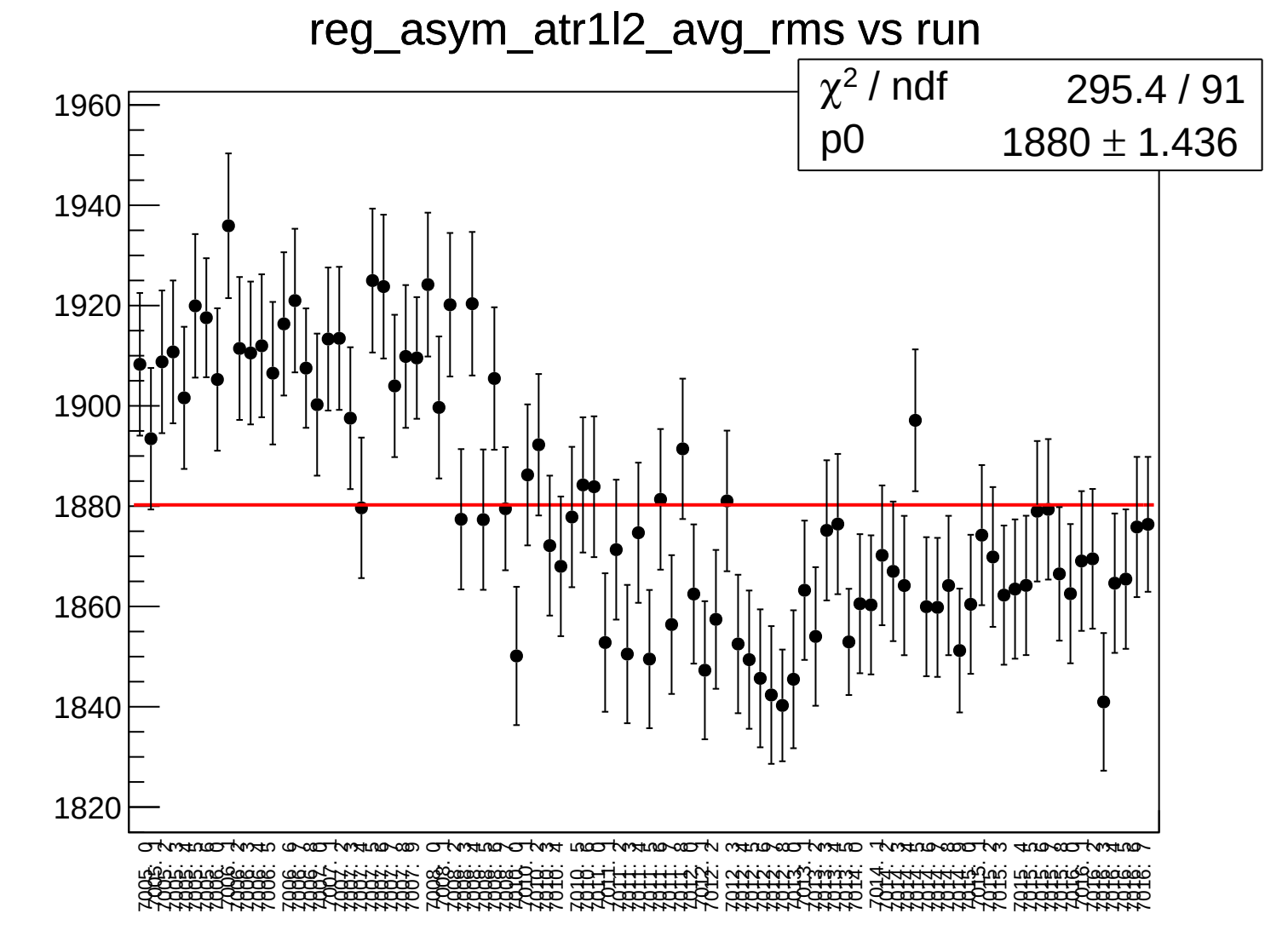

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.21 / 91
p0 −1.615e−14 ± 6.559e−14
pull
Entries 92
Mean 39.65
Std Dev 0

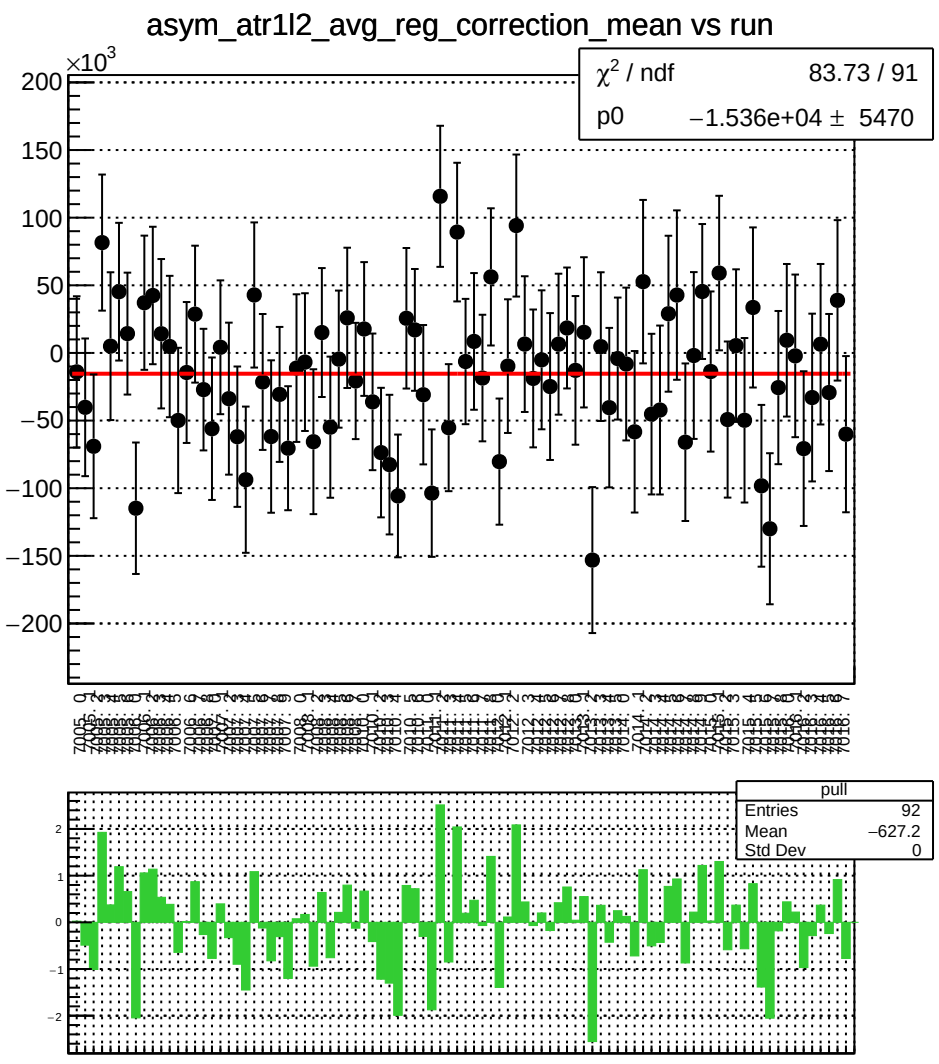

pull1D
Entries 92
Mean −0.105
Std Dev 1.006

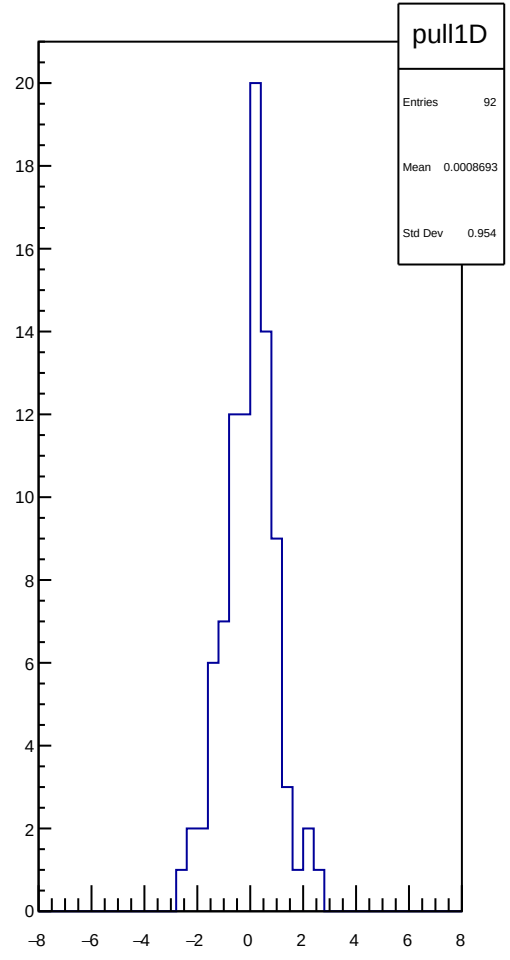

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.817e+05 / 91
p0 4.938e−11 ± 4.638e−14
0.3
0.25
0.2
0.15
0.1
0.05

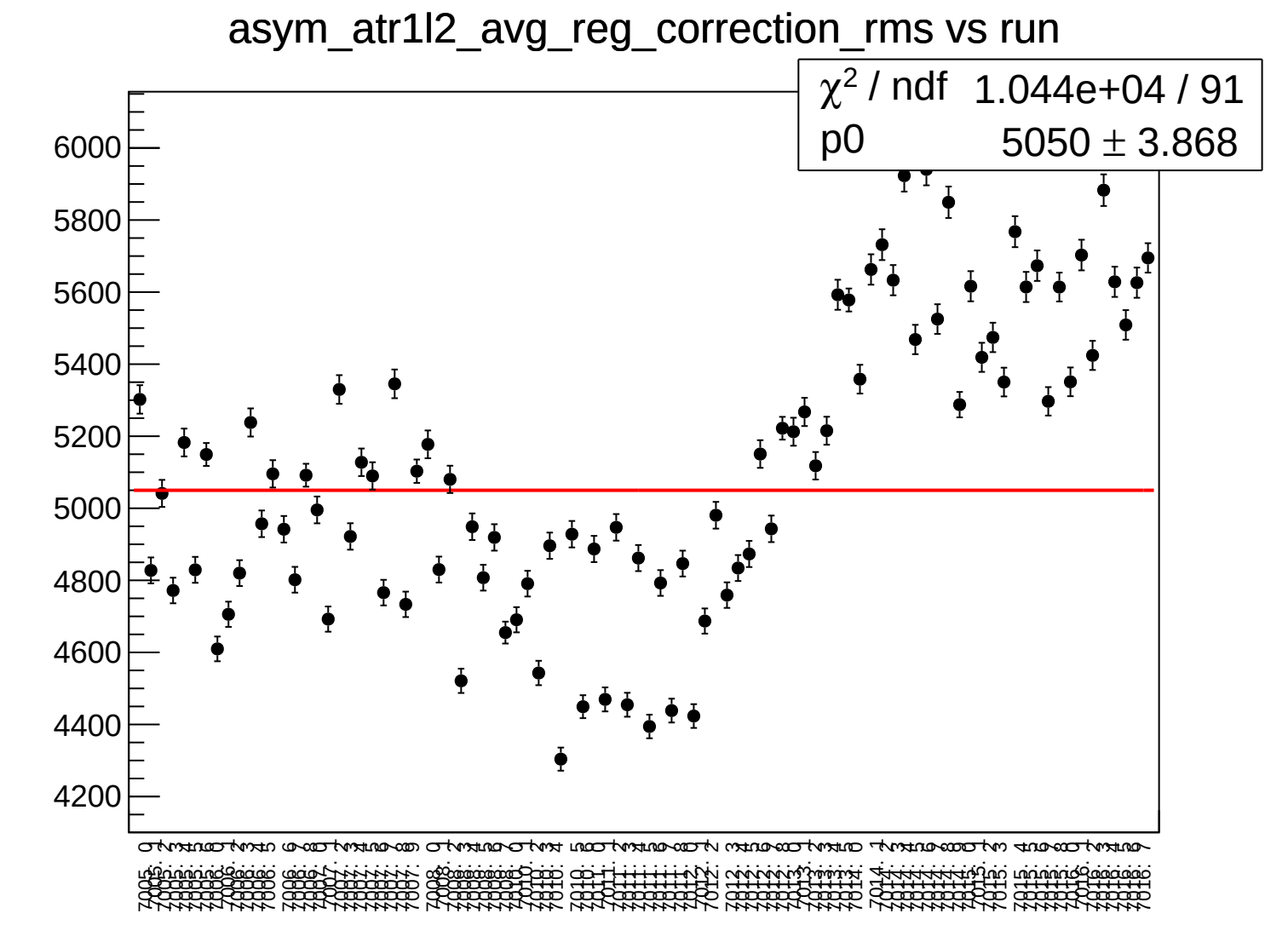

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 94.27 / 91
p0 −697.9 ± 2030
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −297.6
Std Dev 0
2
1
0
−1
−2

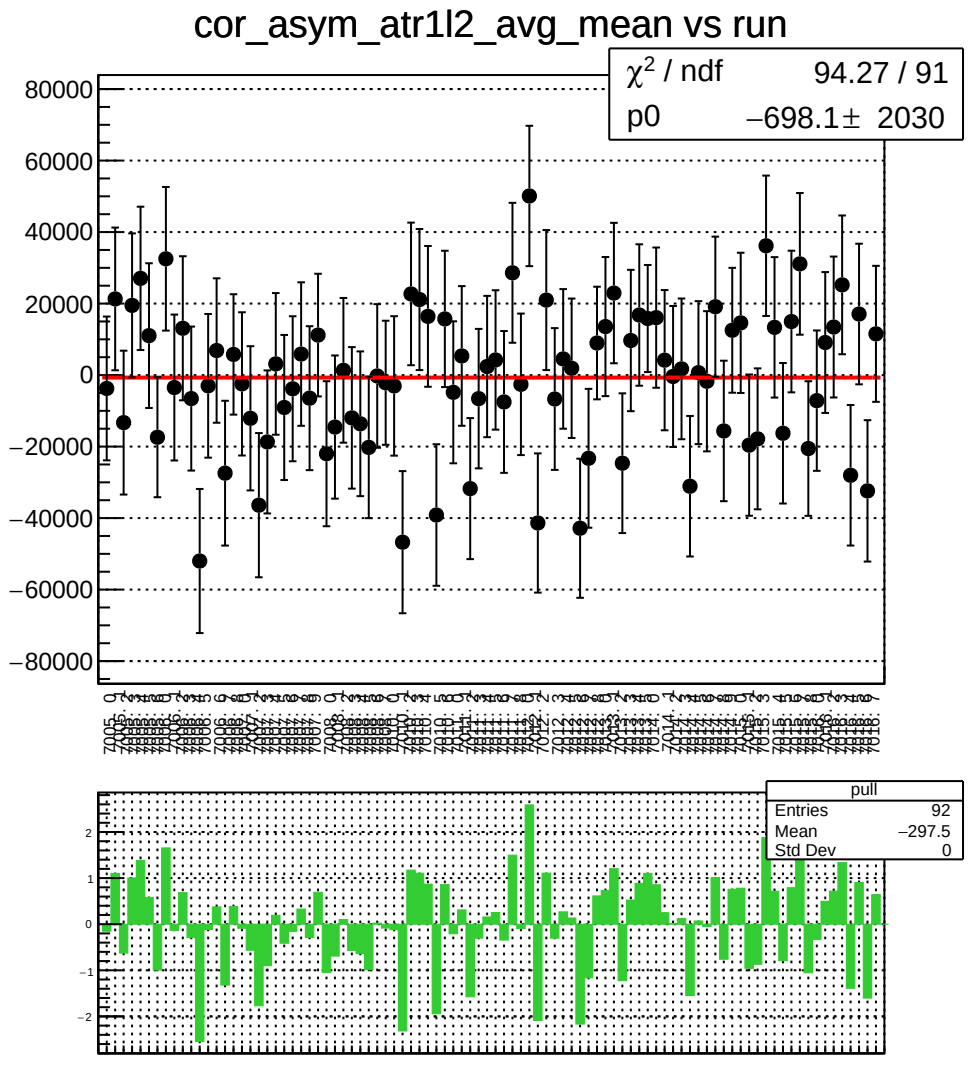

pull1D
Entries 92
Mean −0.007957
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

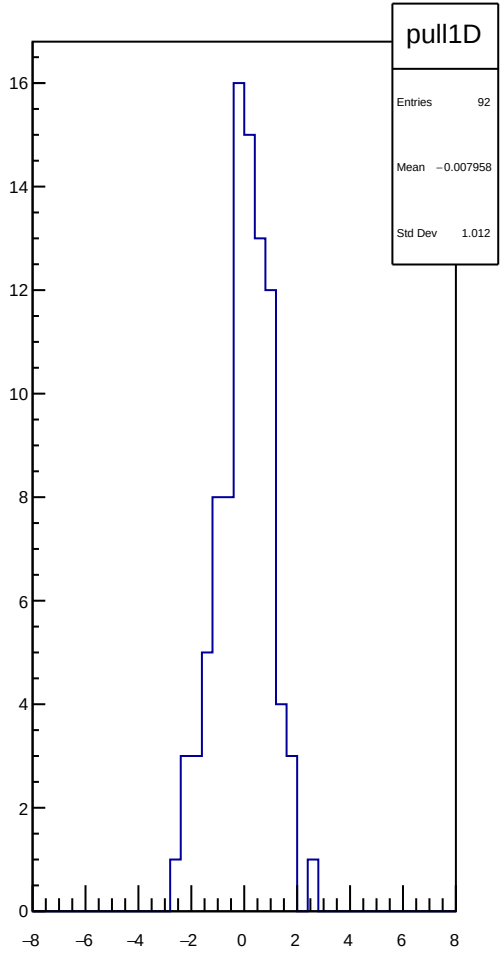

reg_asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 295.4 / 91
p0 1880 ± 1.436
1960
1940
1920
1900
1880
1860
1840
1820

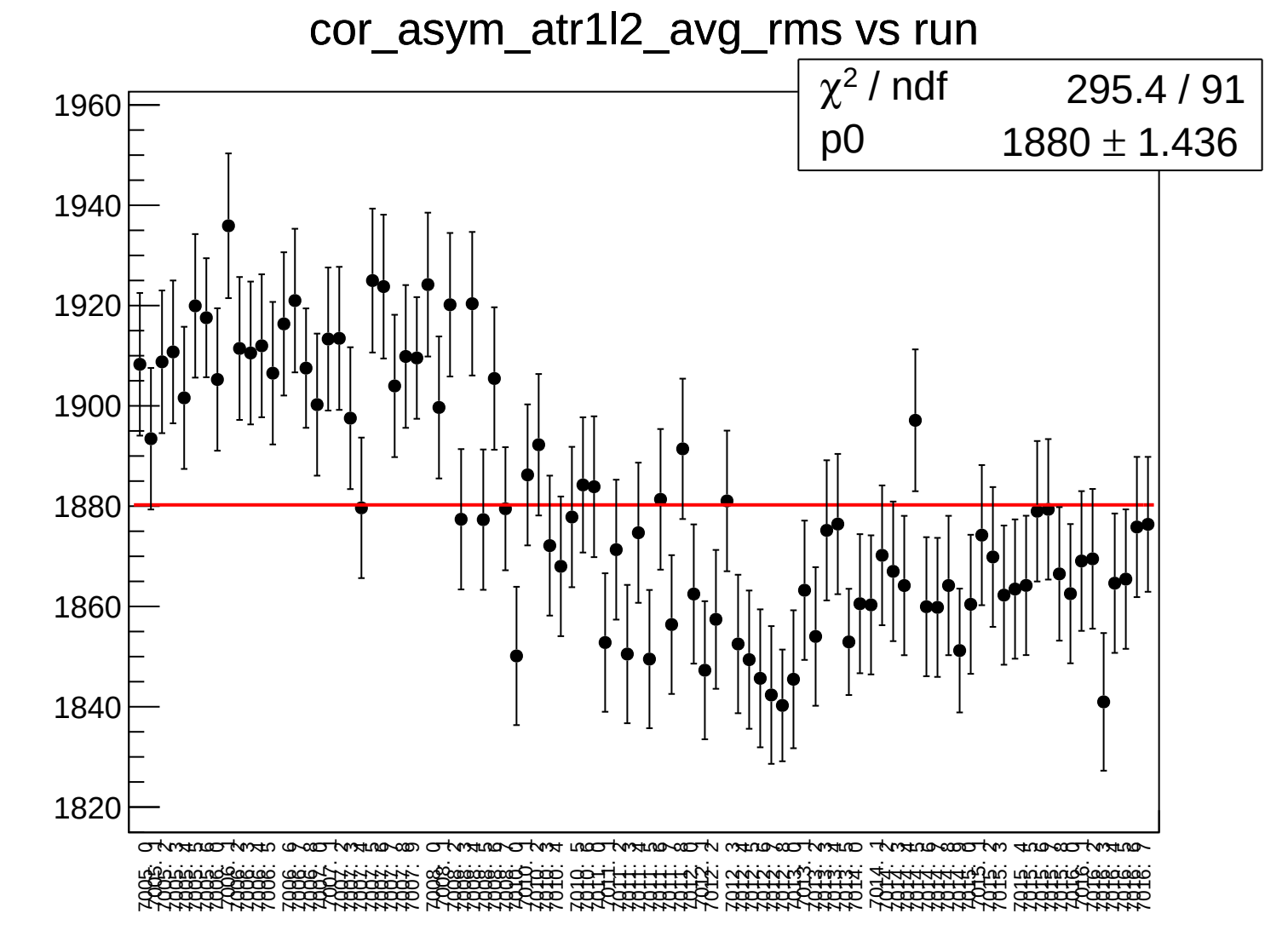

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.73 / 91
p0 −1.536e+04 ± 5470
pull
Entries 92
Mean −627.2
Std Dev 0

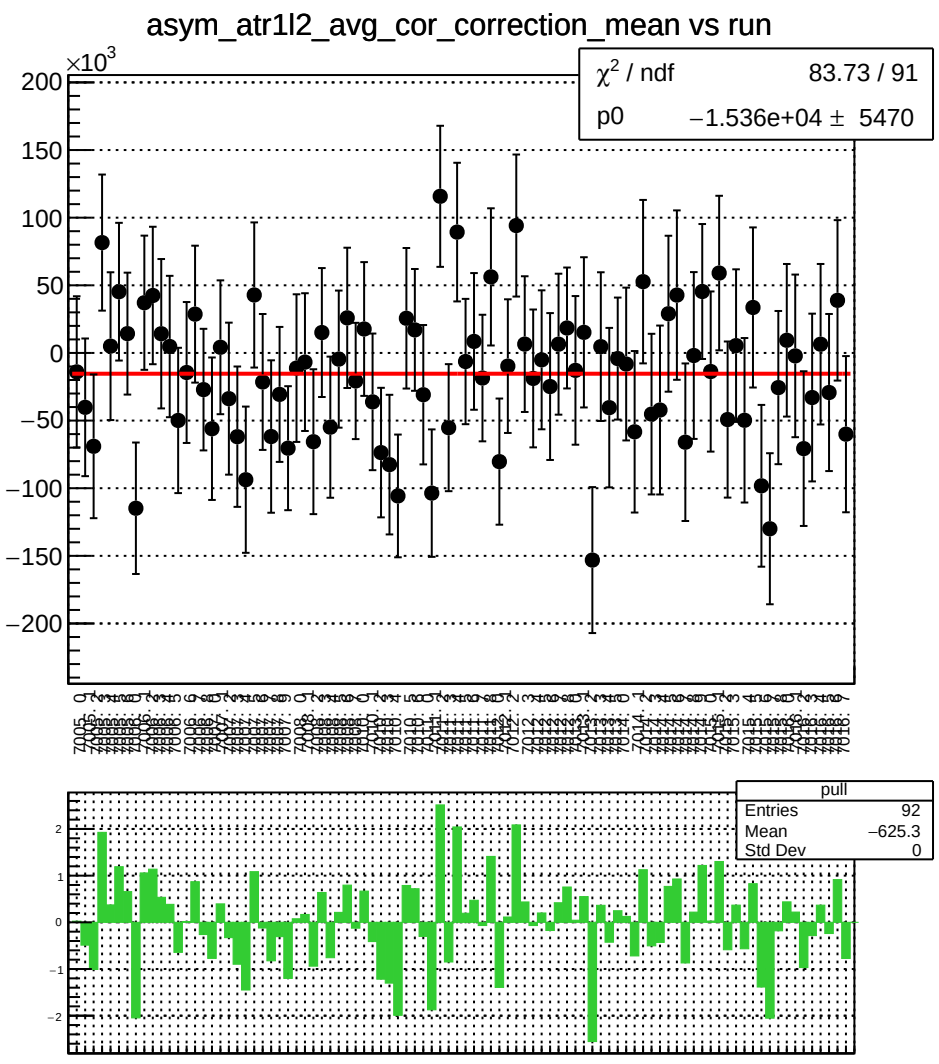

pull1D
Entries 92
Mean 0.0008693
Std Dev 0.954

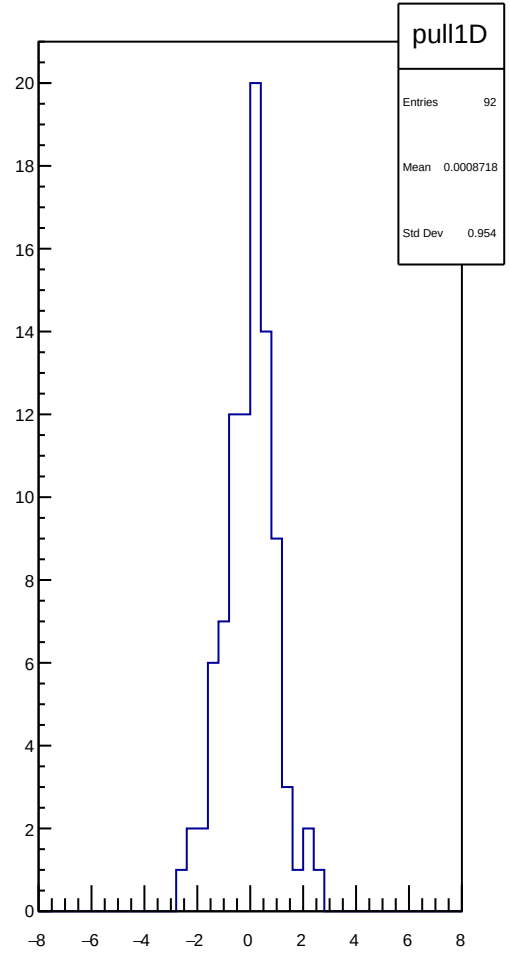

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 1.044e+04 / 91
p0 5050 ± 3.868
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

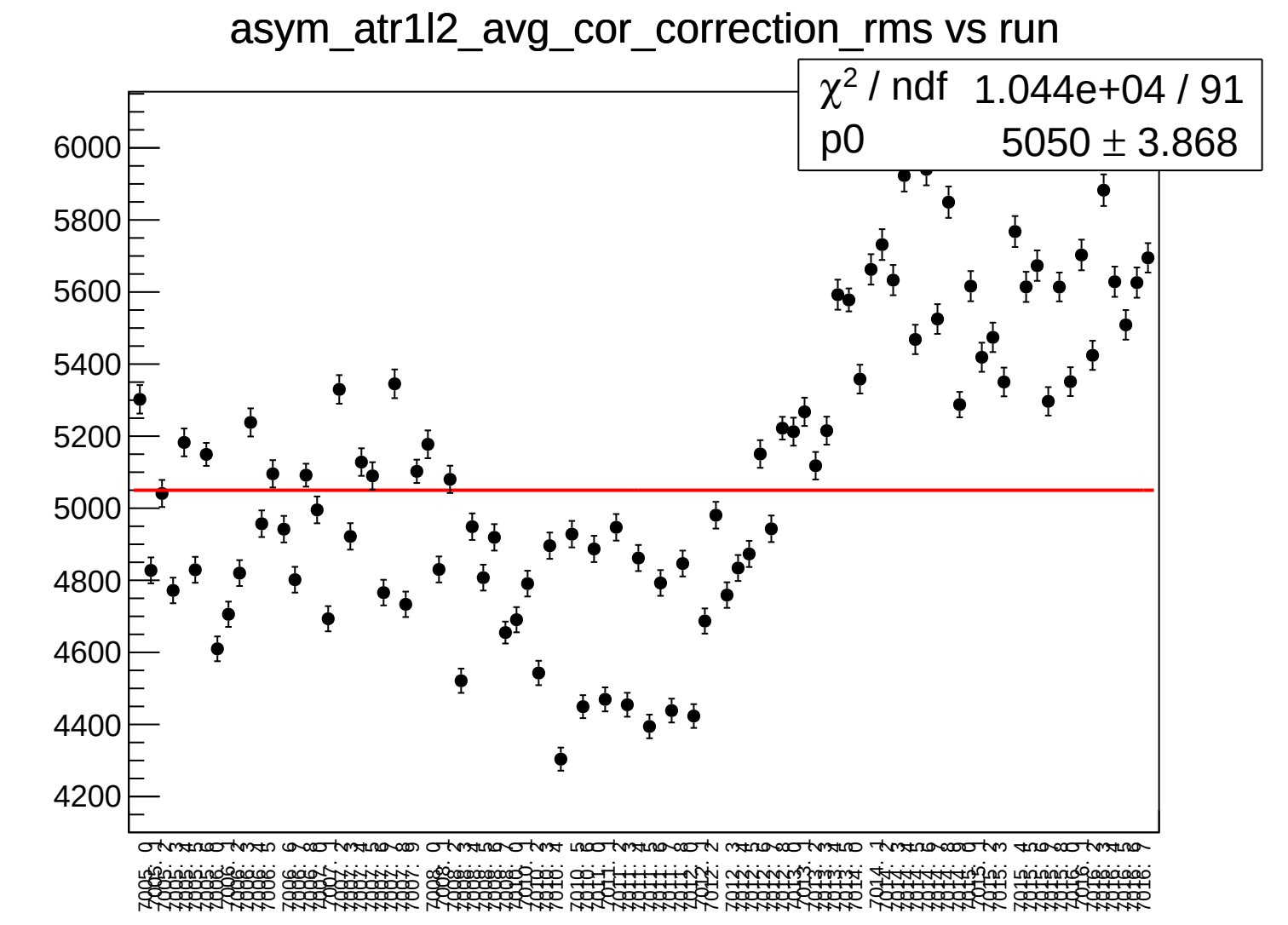

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 94.27 / 91
p0 −698.1± 2030
pull
Entries 92
Mean −297.5
Std Dev 0

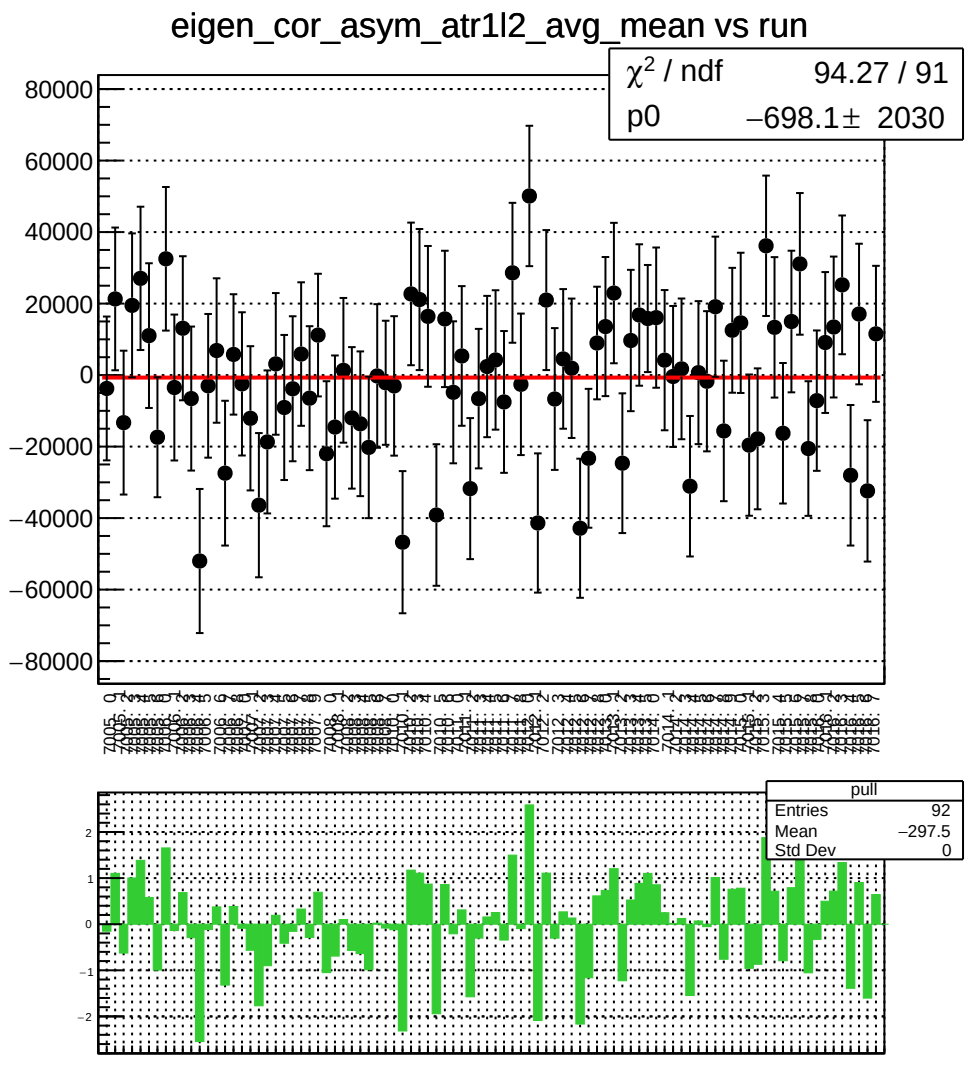

pull1D
Entries 92
Mean −0.007958
Std Dev 1.012

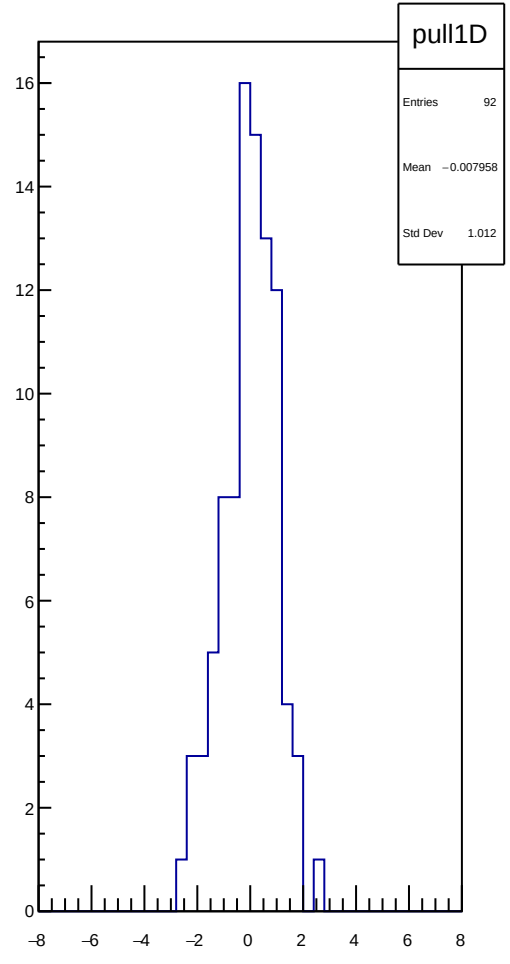

cor_asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 295.4 / 91
p0 1880 ± 1.436
1960
1940
1920
1900
1880
1860
1840
1820

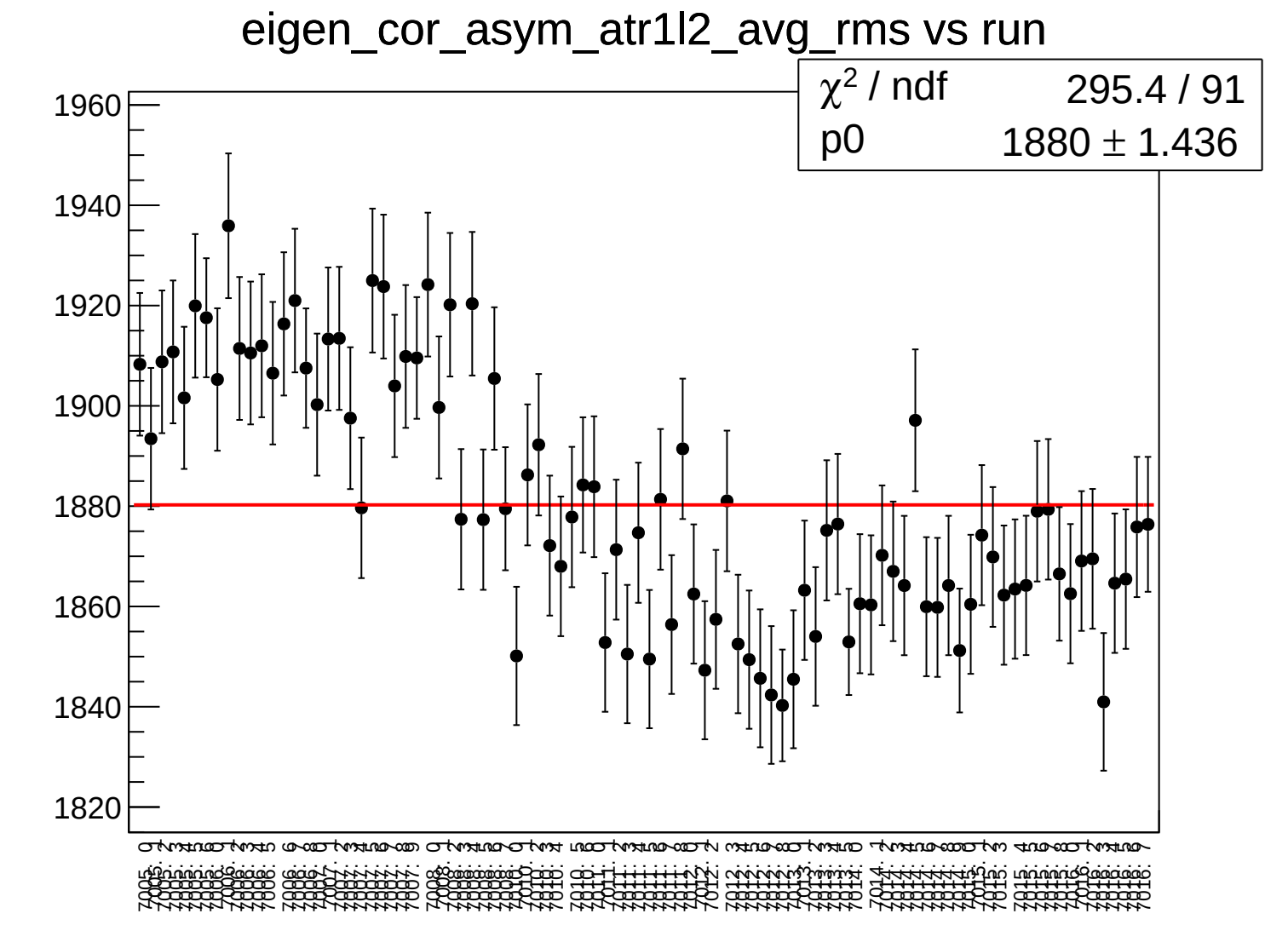

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.73 / 91
p0 −1.536e+04 ± 5470
pull
Entries 92
Mean −625.3
Std Dev 0

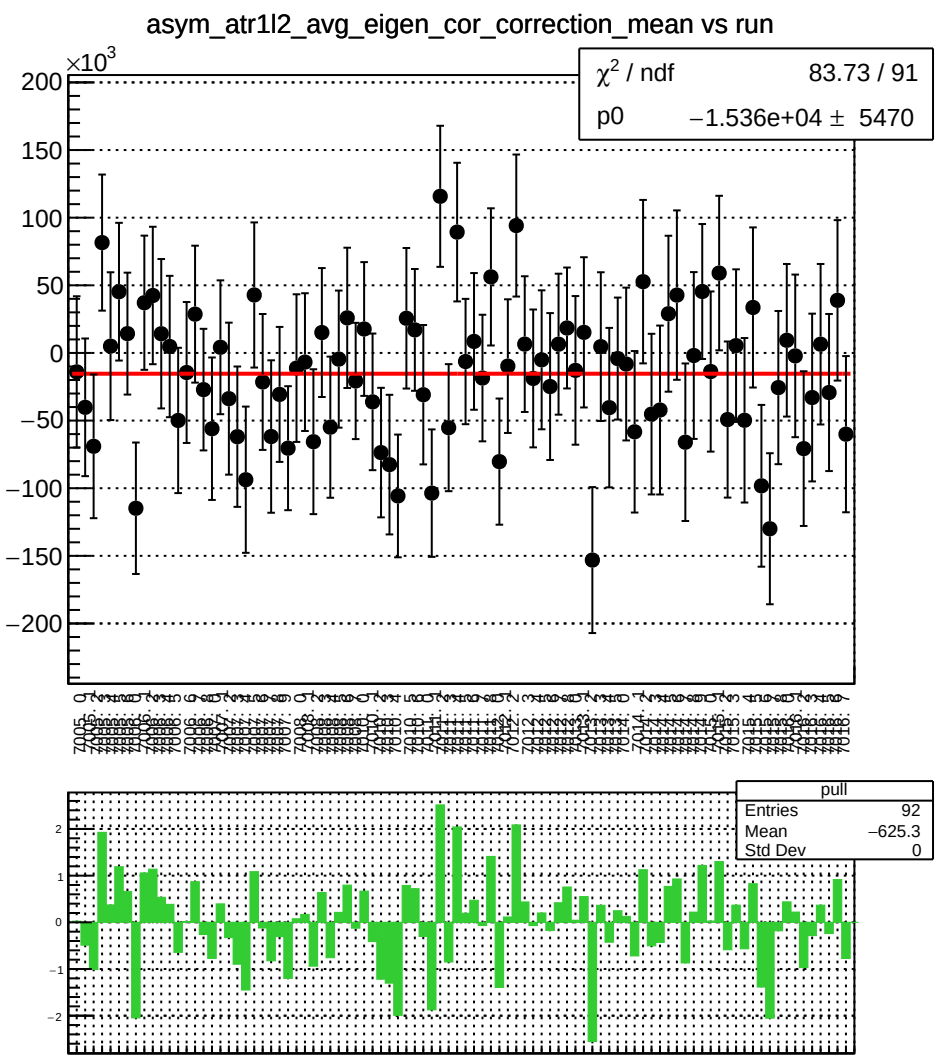

pull1D
Entries 92
Mean 0.0008718
Std Dev 0.954

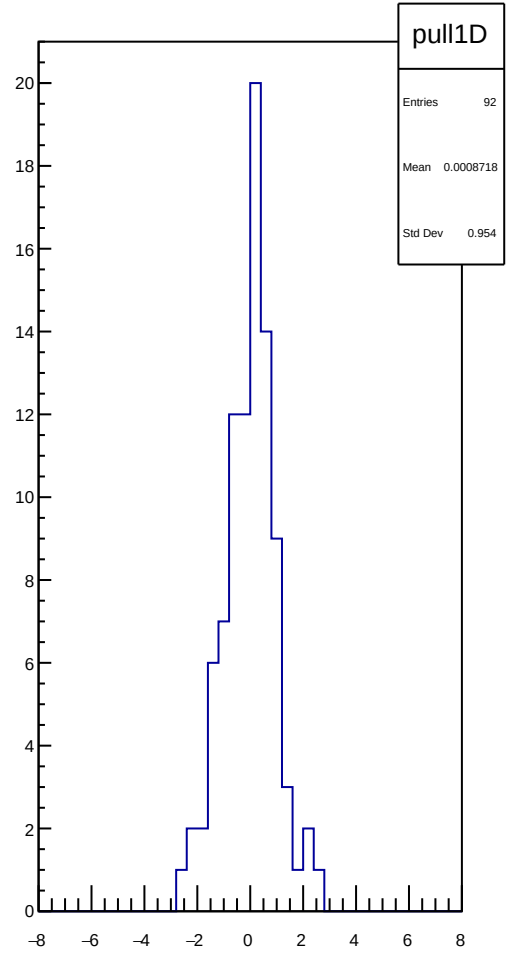

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 1.044e+04 / 91
p0 5050 ± 3.868
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

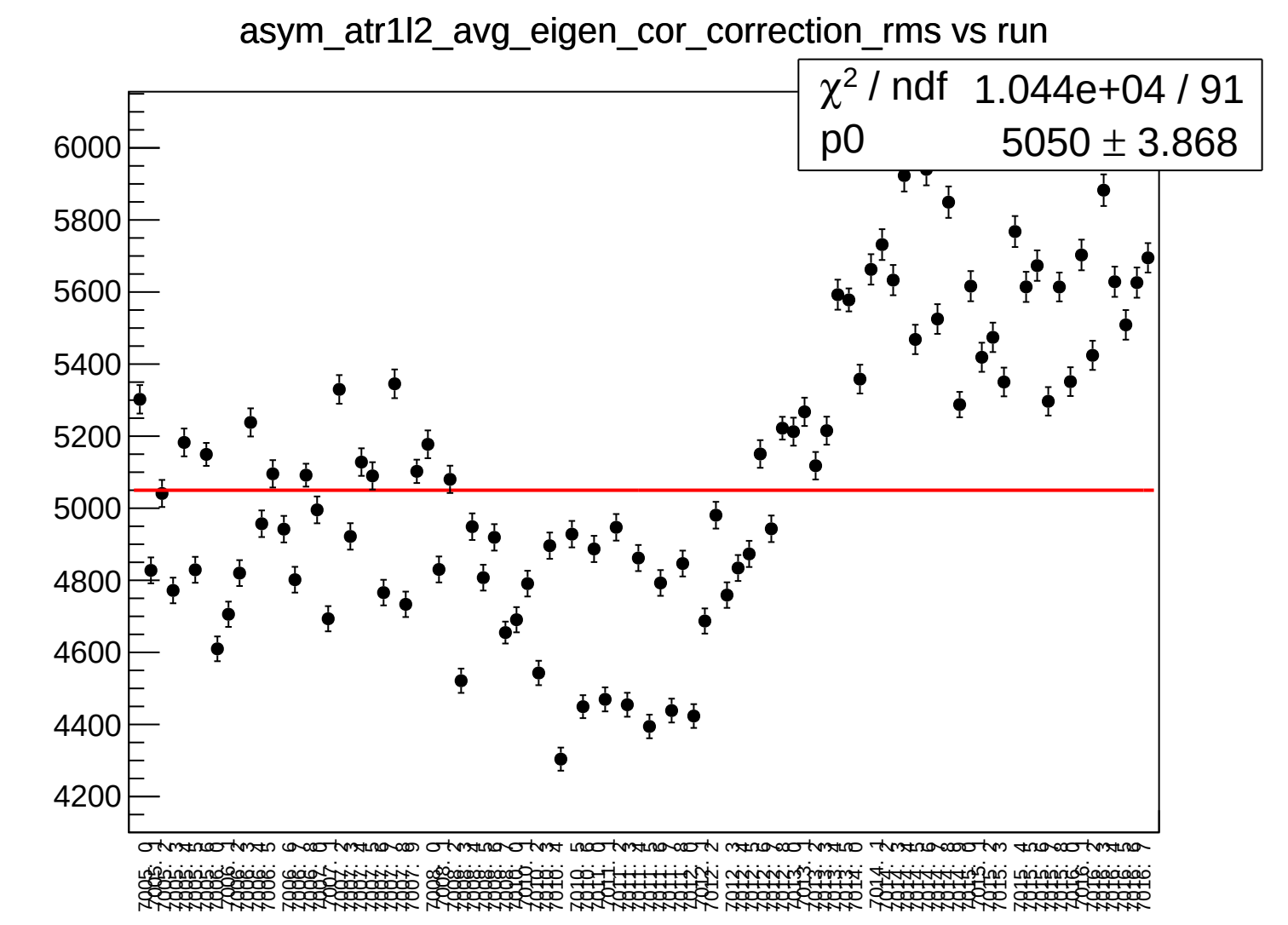

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 94.27 / 91
p0 −698.1± 2030
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −297.5
Std Dev 0
2
1
0
−1
−2

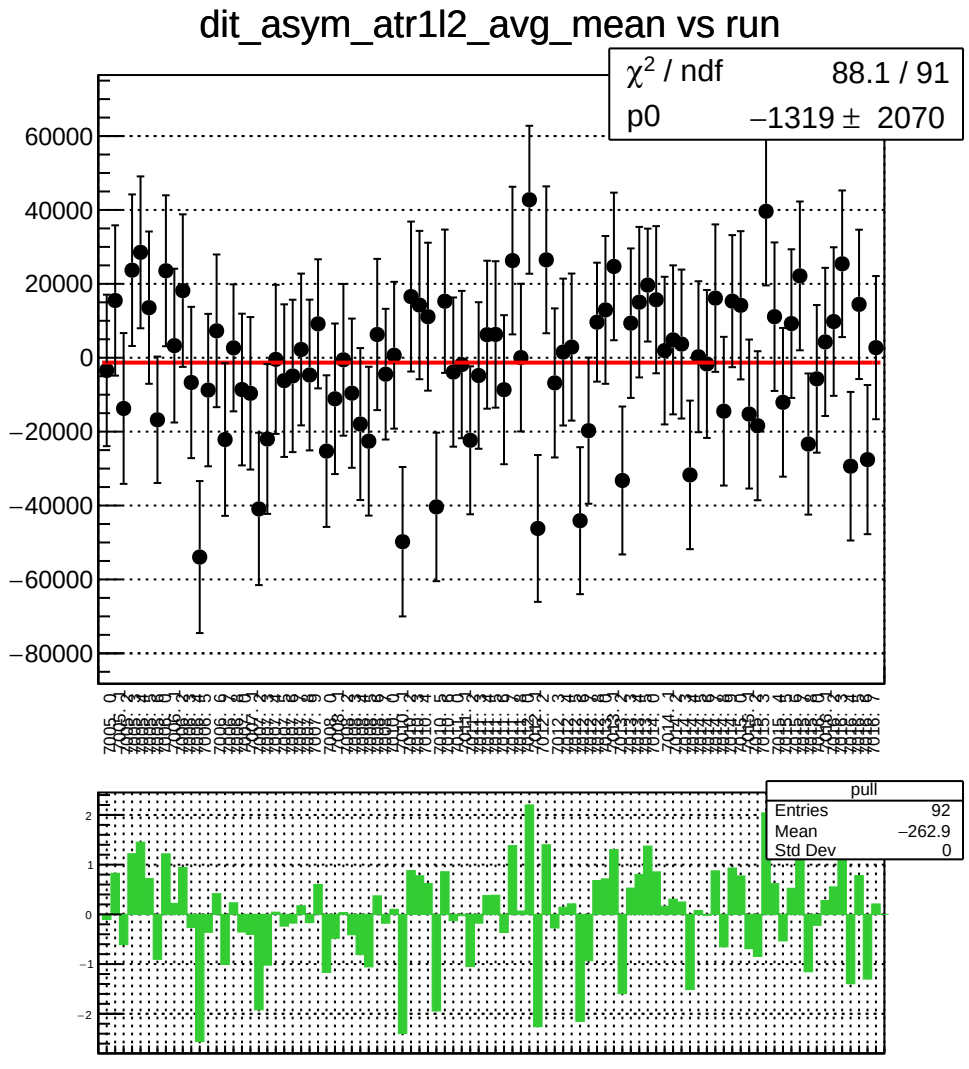

pull1D
Entries 92
Mean −0.007958
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

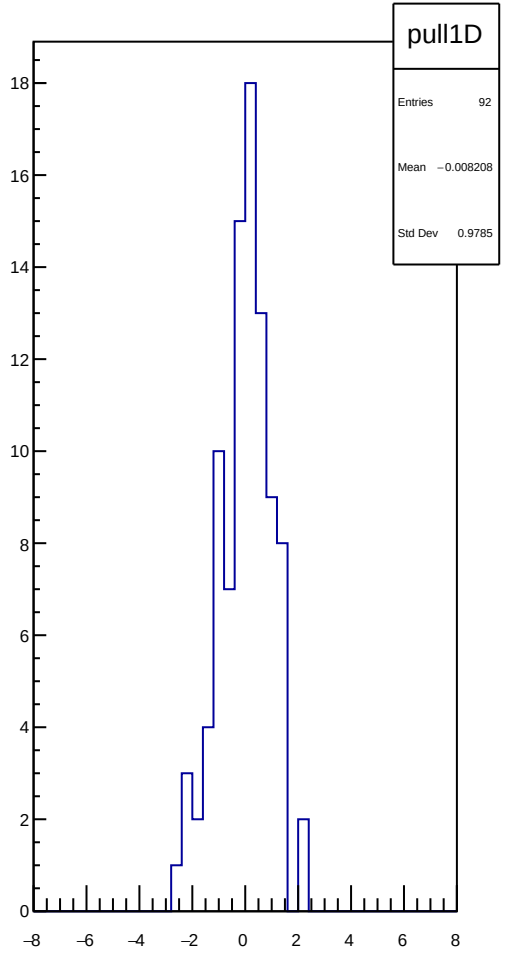

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 295.4 / 91
p0 1880 ± 1.436
1960
1940
1920
1900
1880
1860
1840
1820

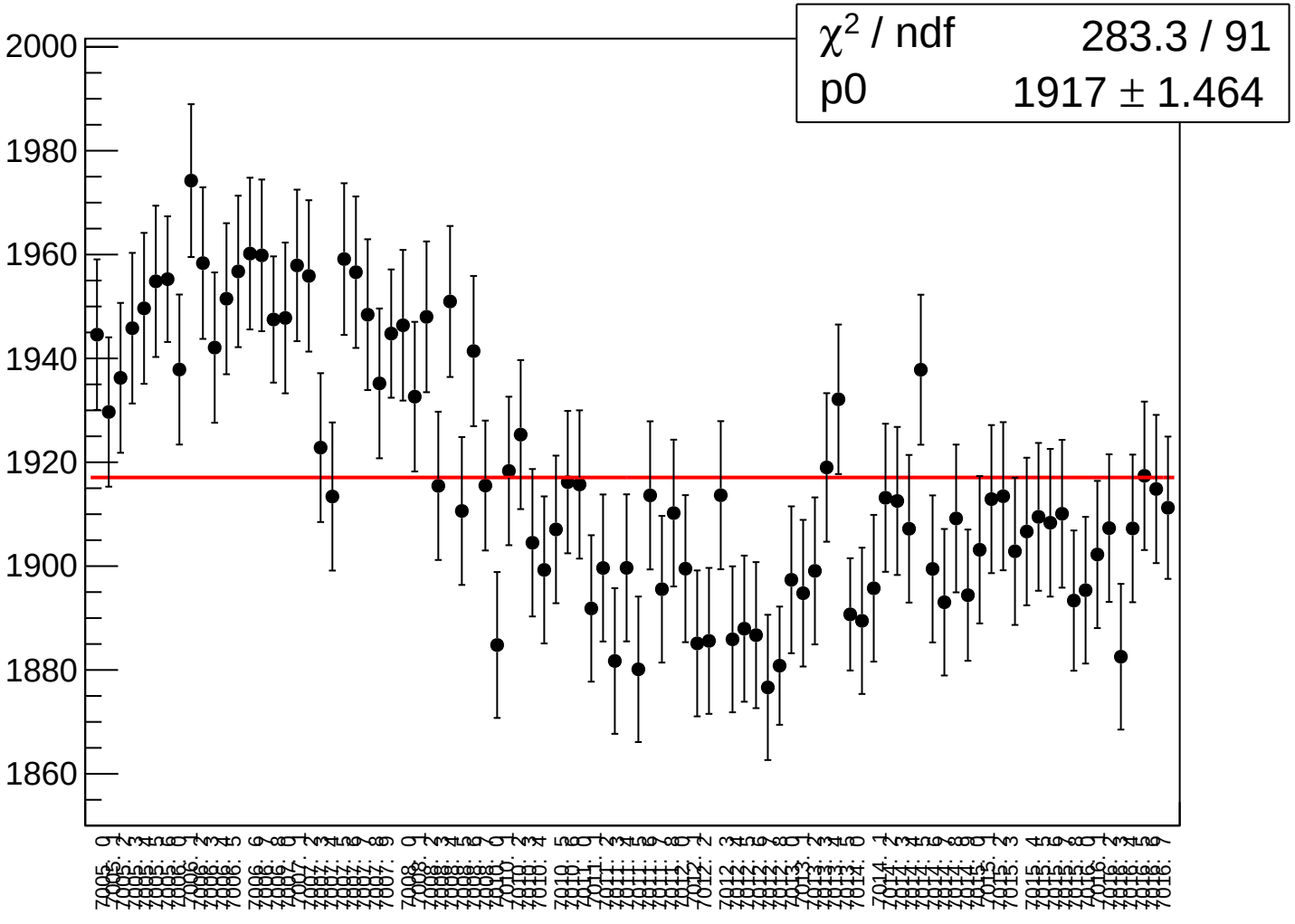

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.73 / 91
p0 −1.536e+04 ± 5470
pull
Entries 92
Mean −625.3
Std Dev 0

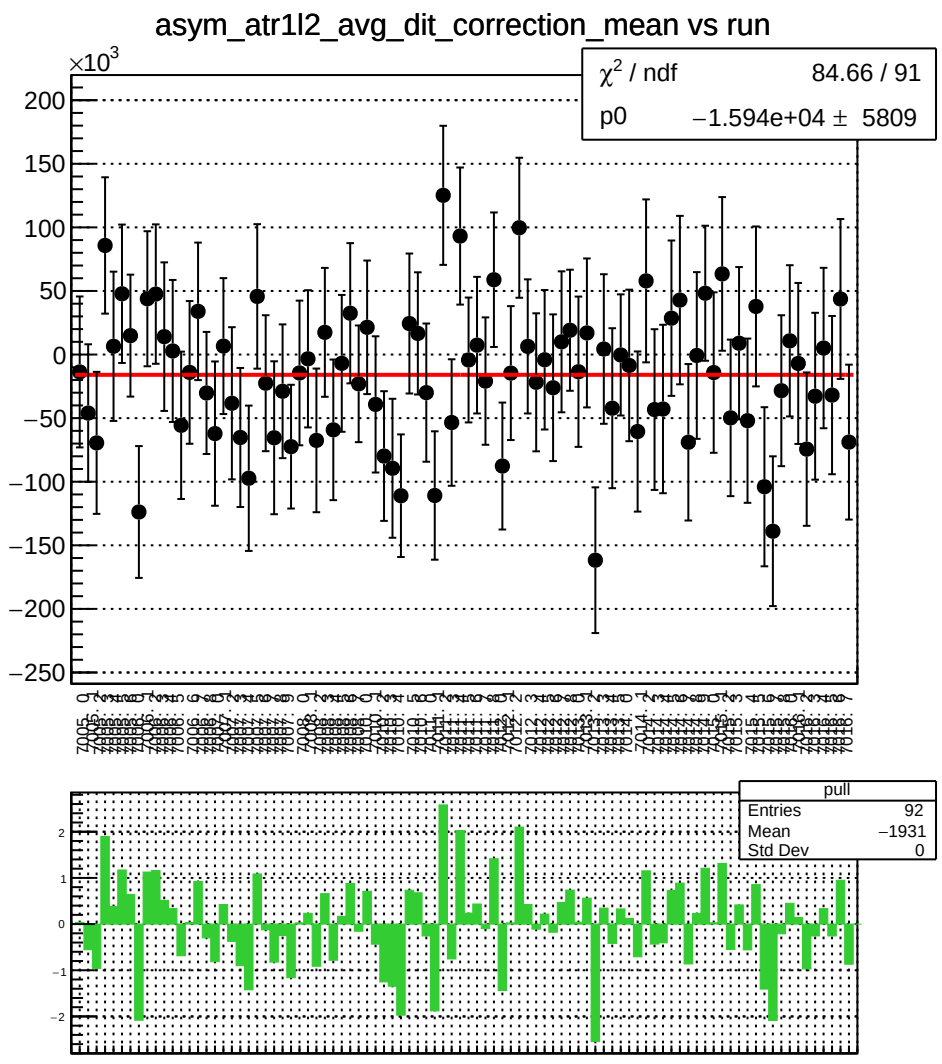

pull1D
Entries 92
Mean 0.0008718
Std Dev 0.954

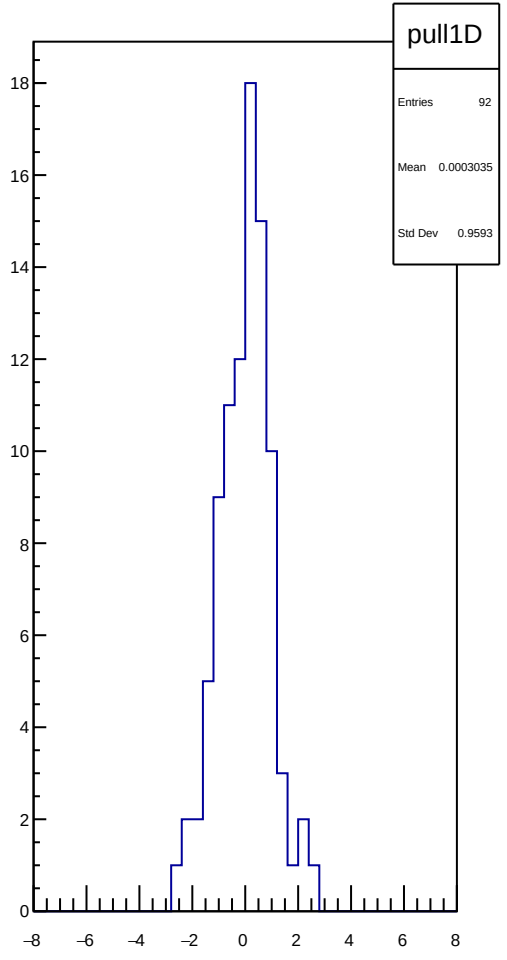

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.044e+04 / 91
p0 5050 ± 3.868
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

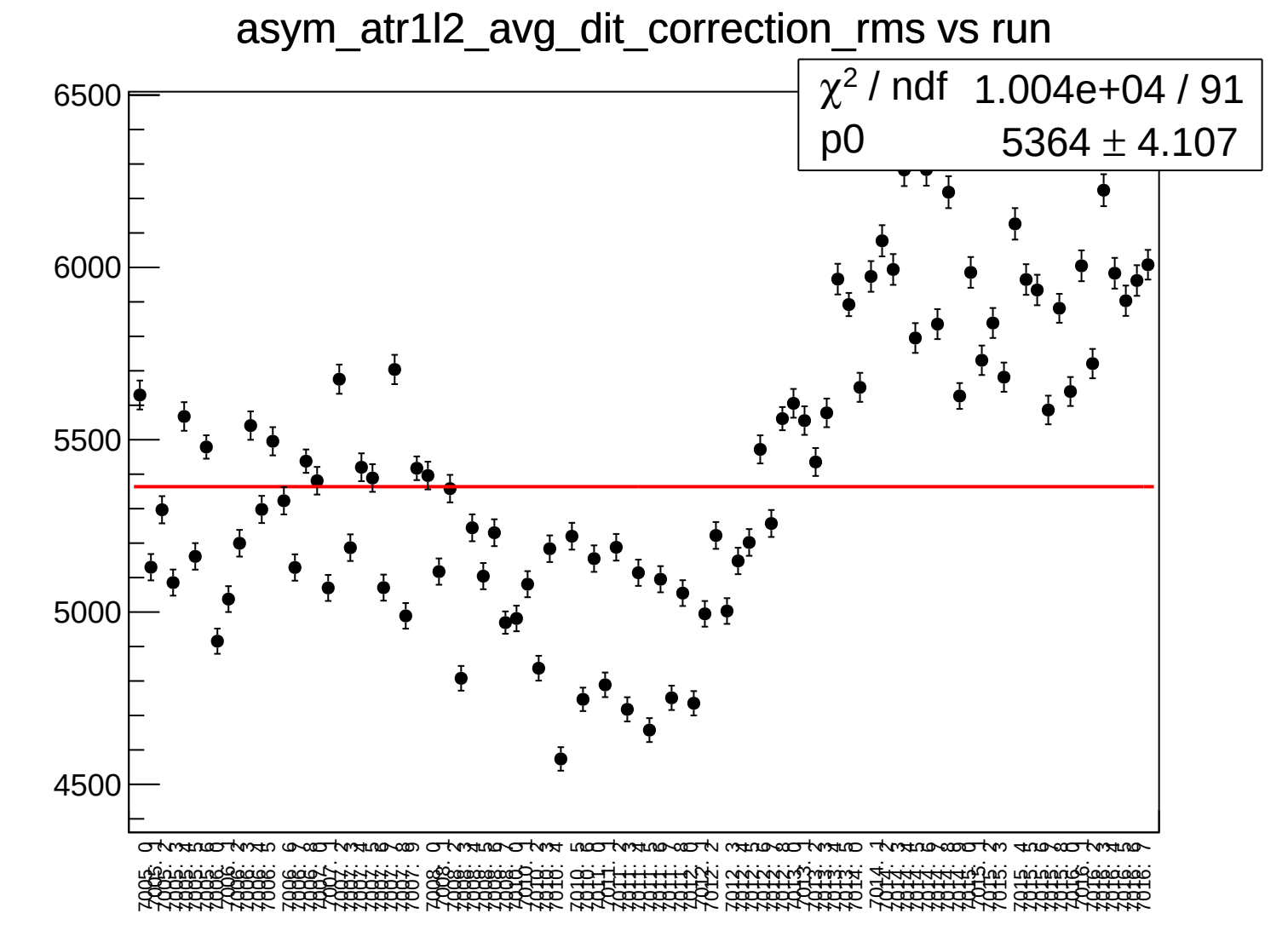

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 88.1 / 91
p0 −1319 ± 2070
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −262.9
Std Dev 0
2
1
0
−1
−2

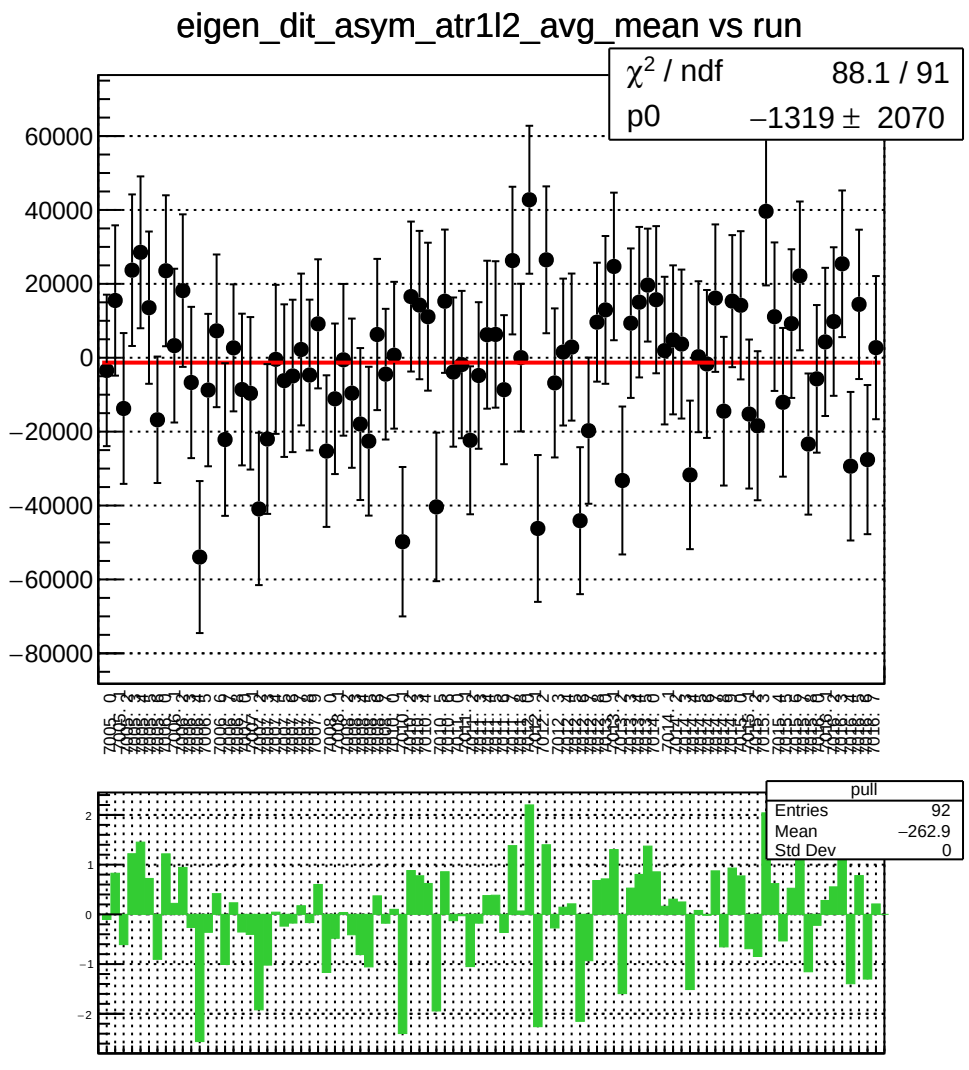

pull1D
Entries 92
Mean −0.008208
Std Dev 0.9785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

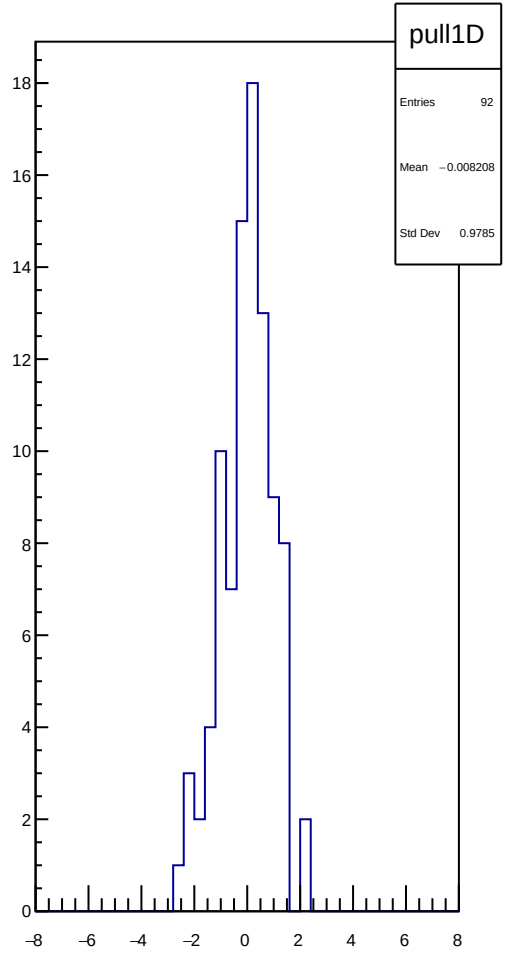

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 283.3 / 91
p0 1917 ± 1.464
2000
1980
1960
1940
1920
1900
1880
1860

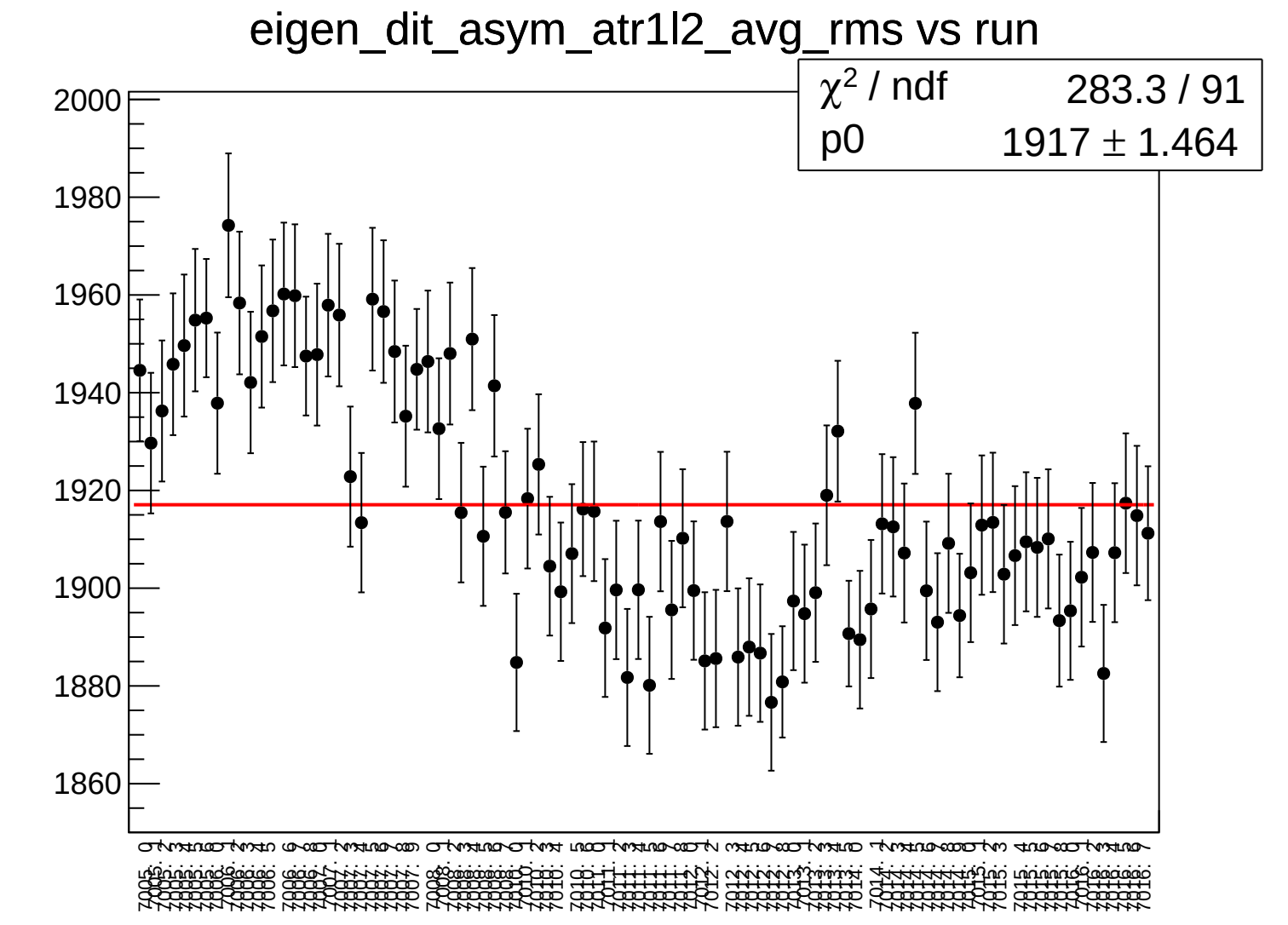

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.66 / 91
p0 −1.594e+04 ± 5809
pull
Entries 92
Mean −1931
Std Dev 0

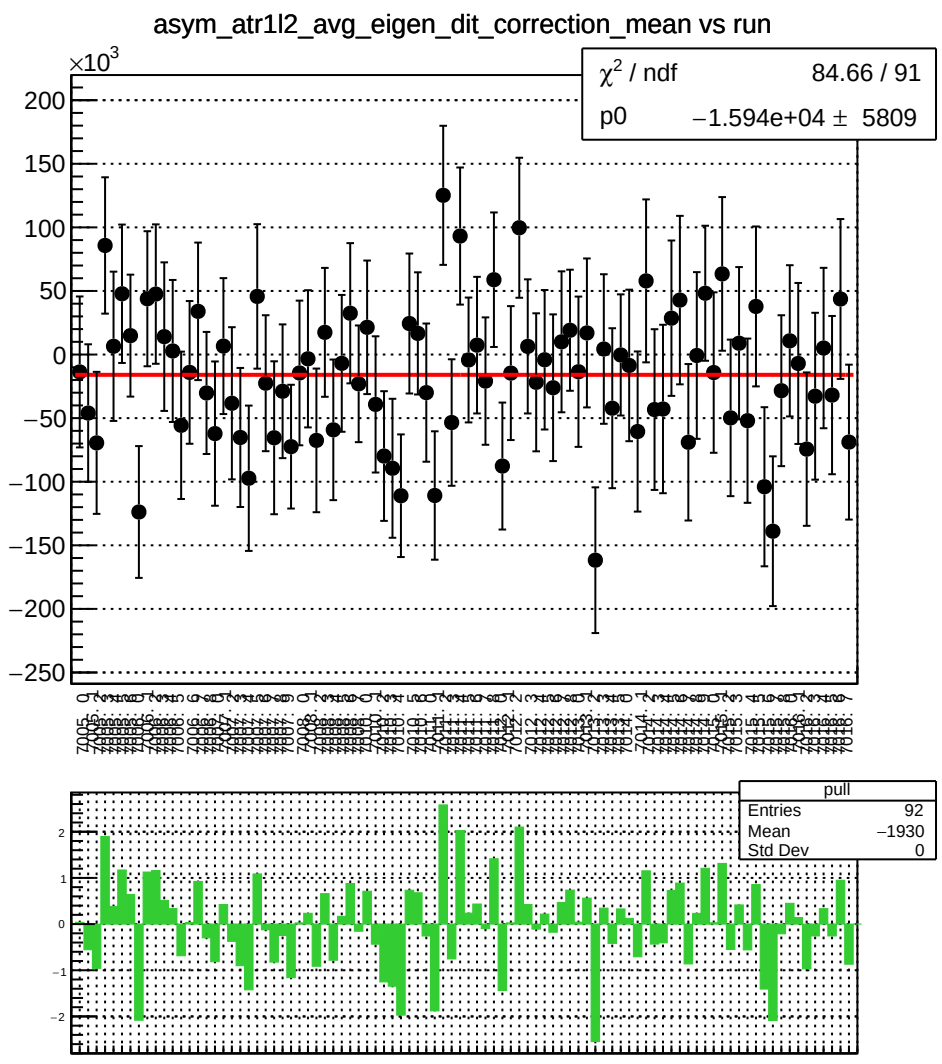

pull1D
Entries 92
Mean 0.0003035
Std Dev 0.9593

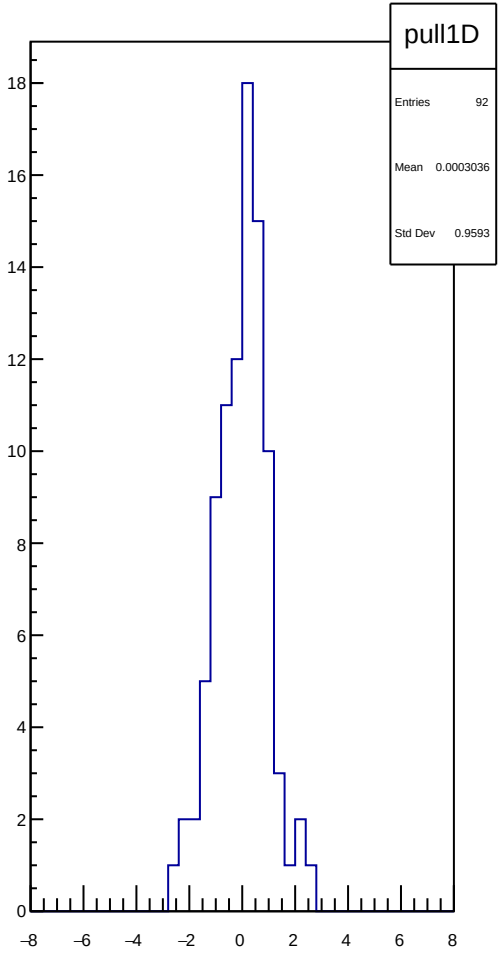

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 1.004e+04 / 91
p0 5364 ± 4.107
6500
6000
5500
5000
4500

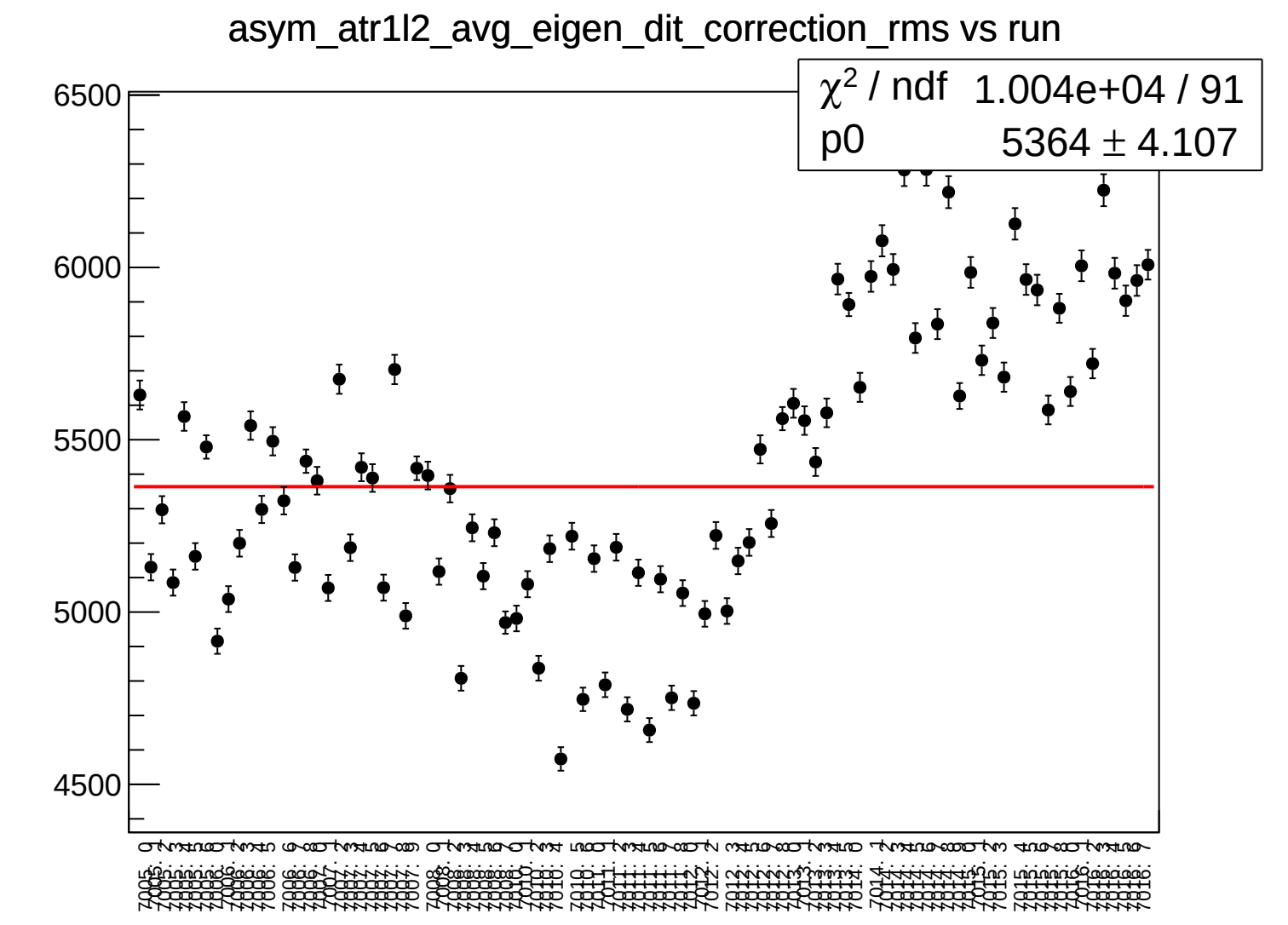

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 88.1 / 91
p0 −1319 ± 2070
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −262.9
Std Dev 0
2
1
0
−1
−2

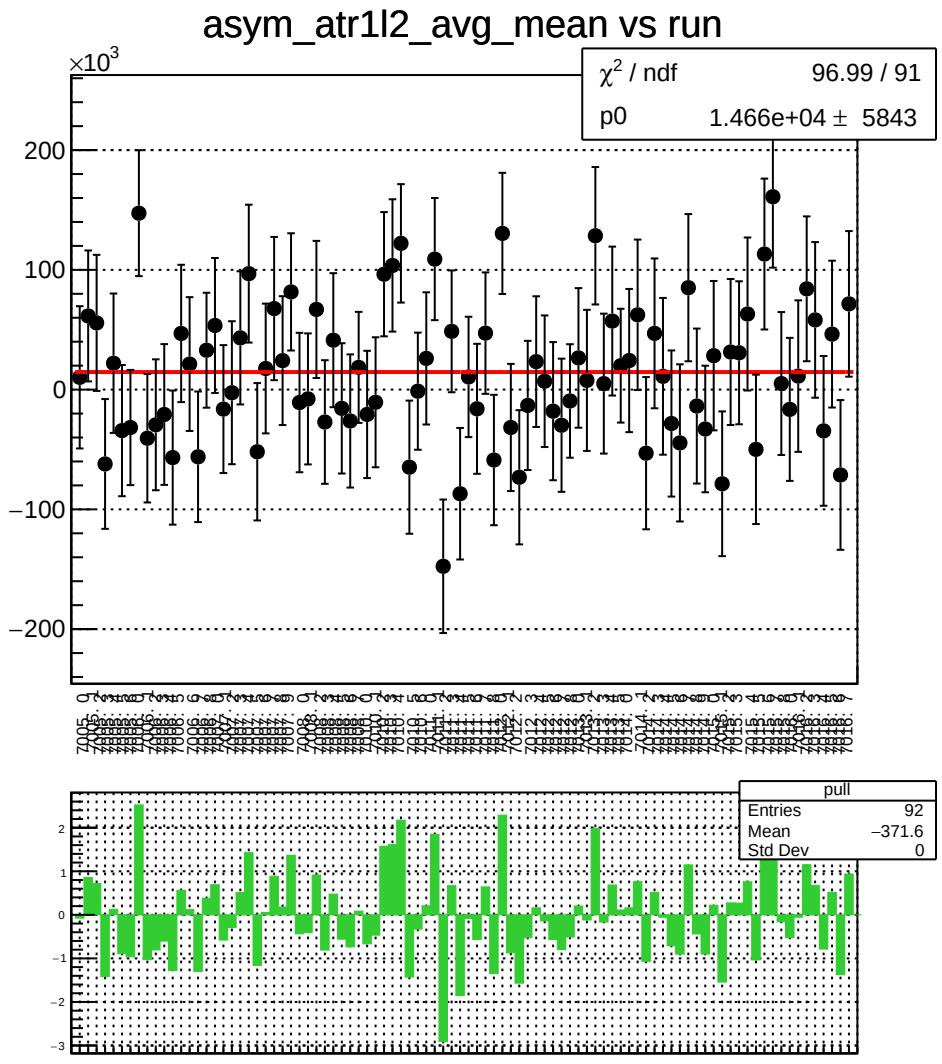

pull1D
Entries 92
Mean −0.008208
Std Dev 0.9785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

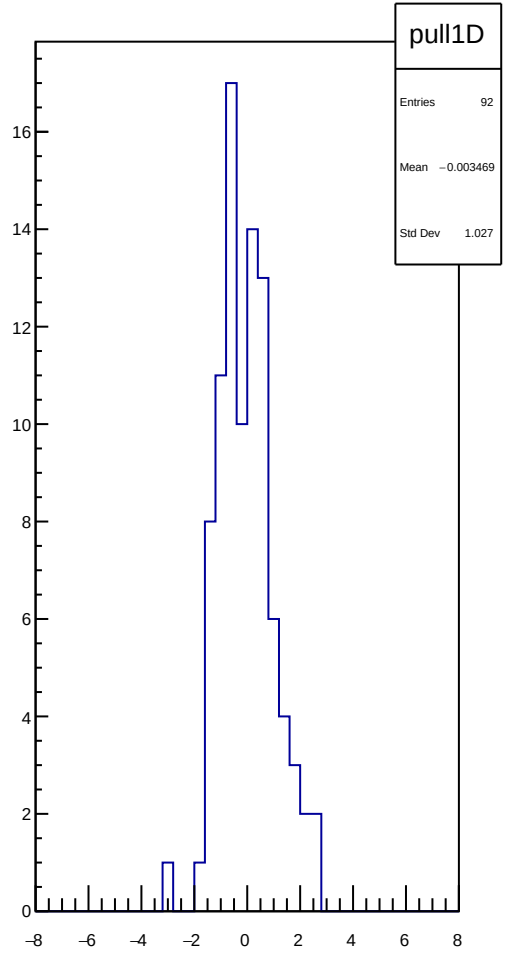

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 283.3 / 91
p0 1917 ± 1.464
2000
1980
1960
1940
1920
1900
1880
1860

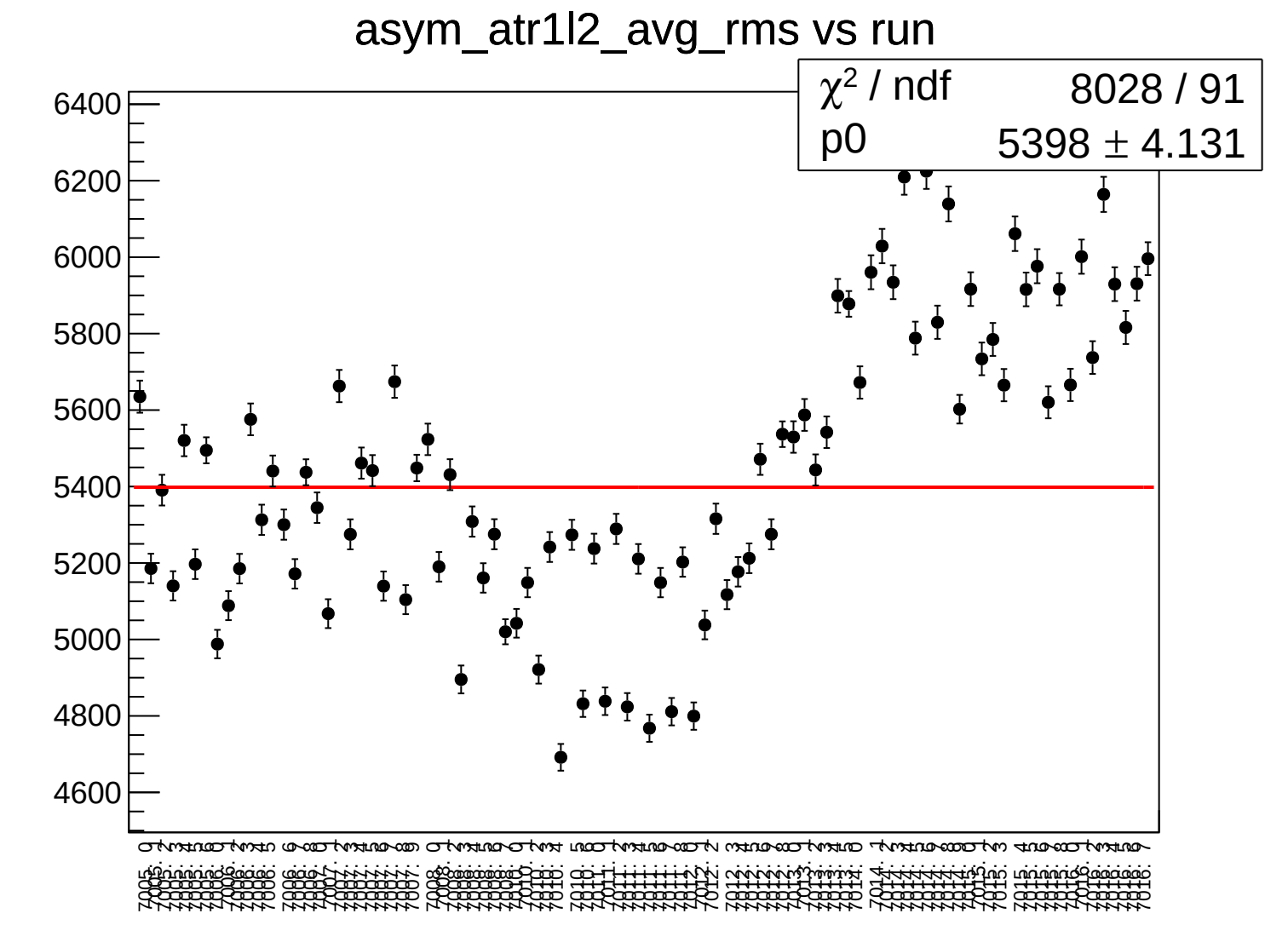

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.66 / 91
p0 −1.594e+04 ± 5809
pull
Entries 92
Mean −1930
Std Dev 0

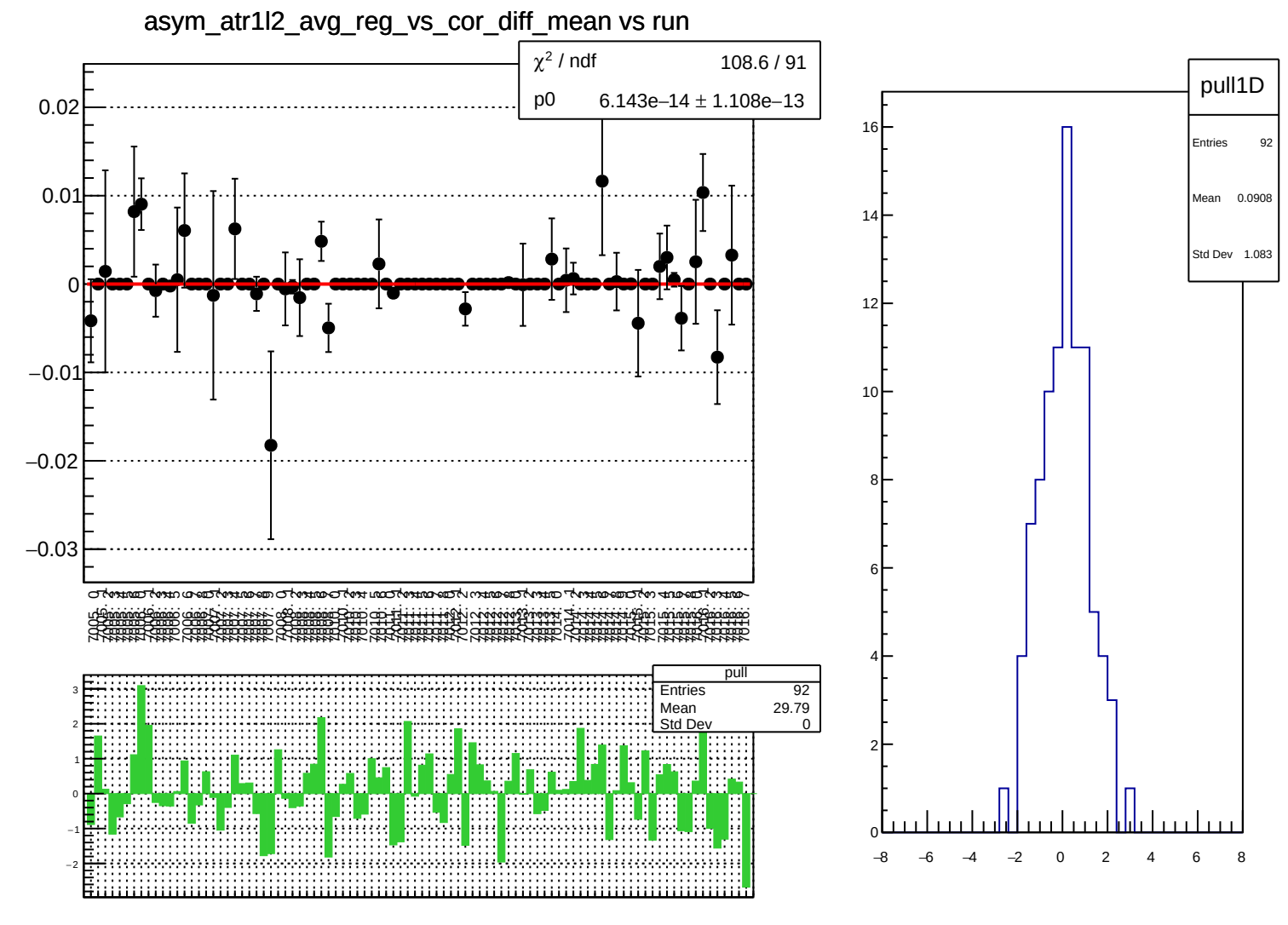

pull1D
Entries 92
Mean 0.0003036
Std Dev 0.9593

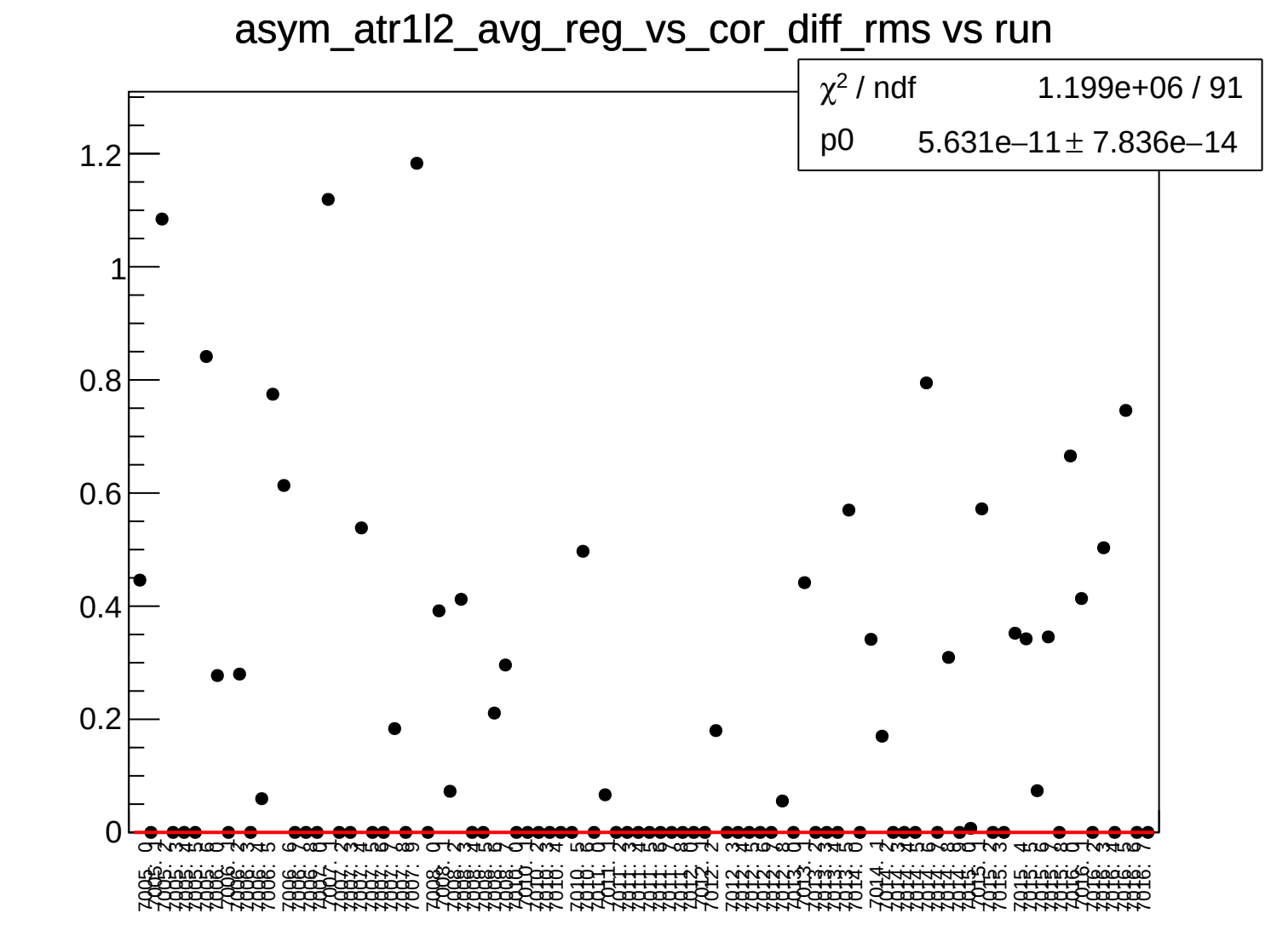

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.004e+04 / 91
p0 5364 ± 4.107
6500
6000
5500
5000
4500

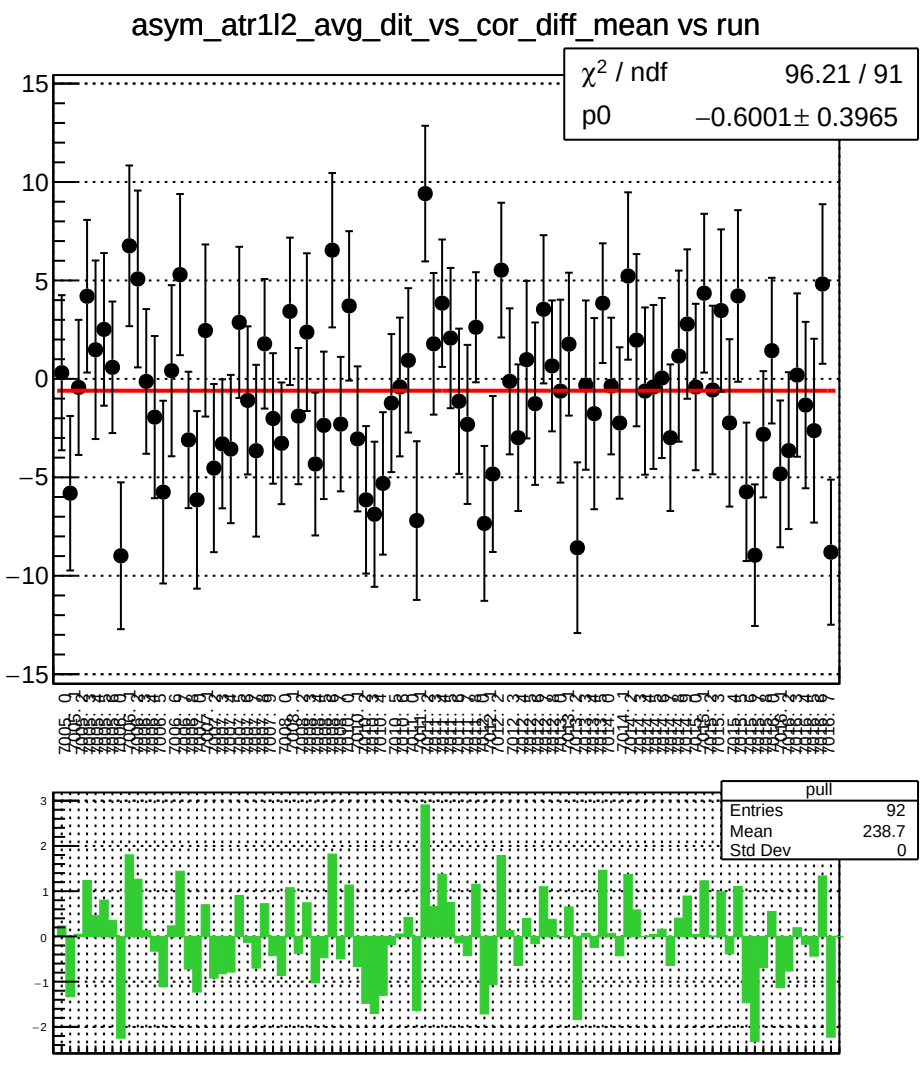

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 96.99 / 91
p0 1.466e+04 ± 5843
200
100
0
−100
−200
pull
Entries 92
Mean −371.6
Std Dev 0
2
1
0
−1
−2
−3

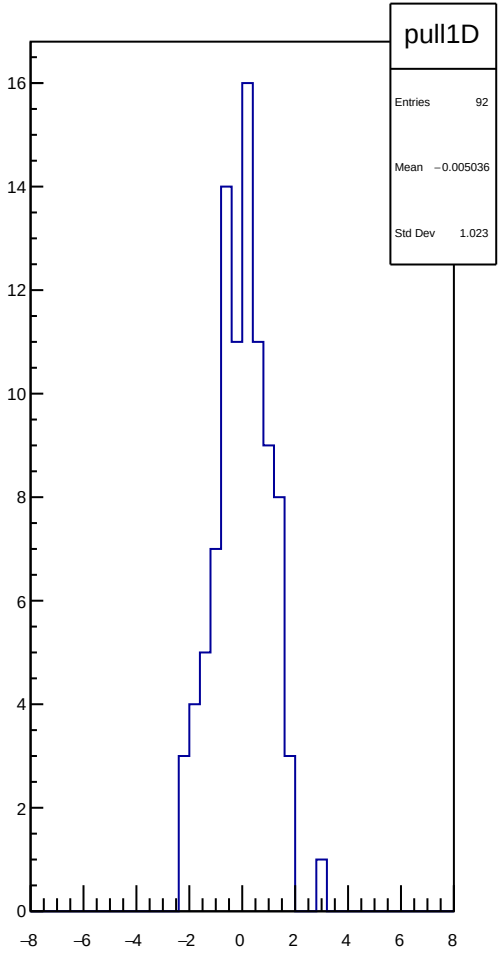

pull1D
Entries 92
Mean −0.003469
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

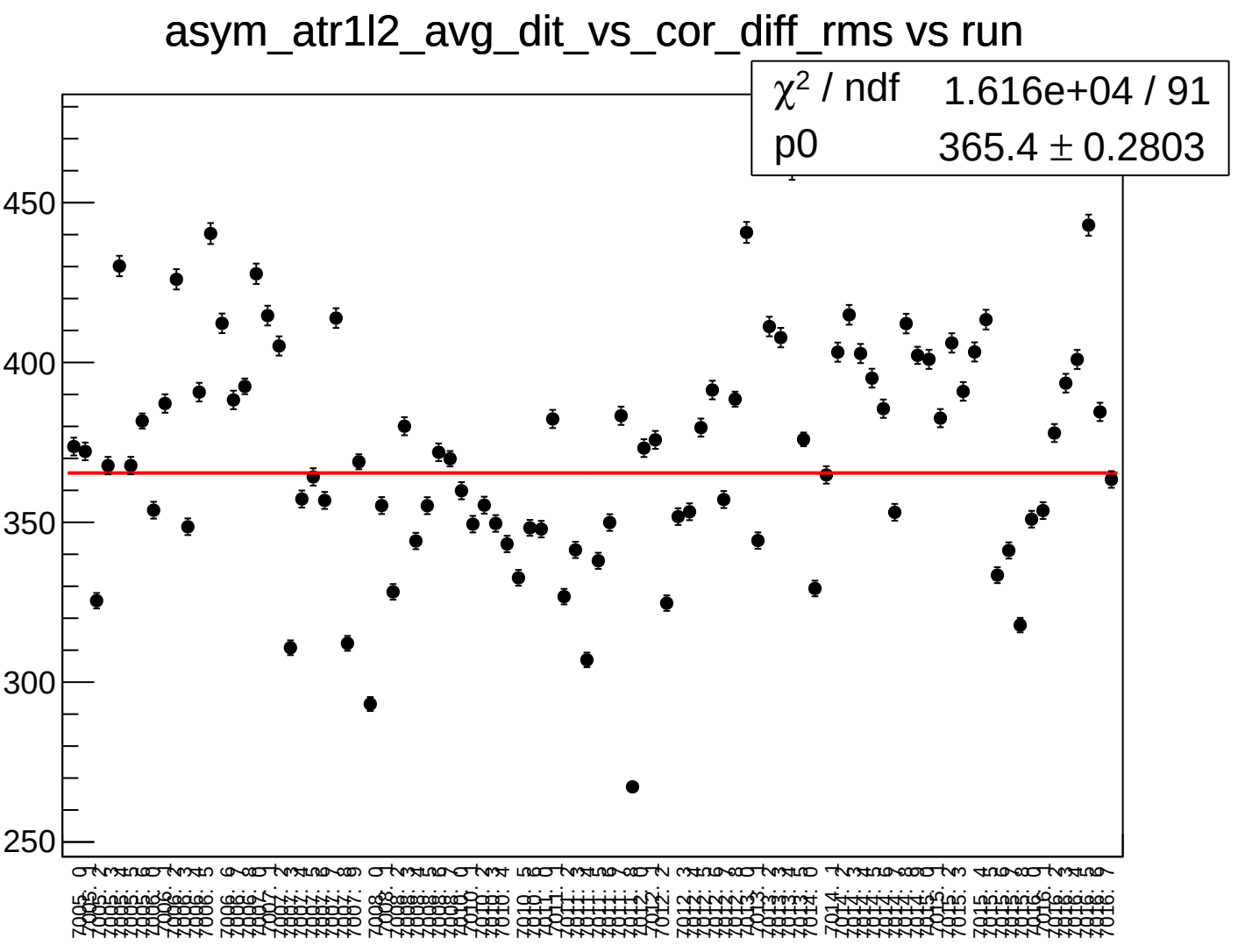

asym_atr1l2_avg_rms vs run
χ² / ndf 8028 / 91
p0 5398 ± 4.131
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

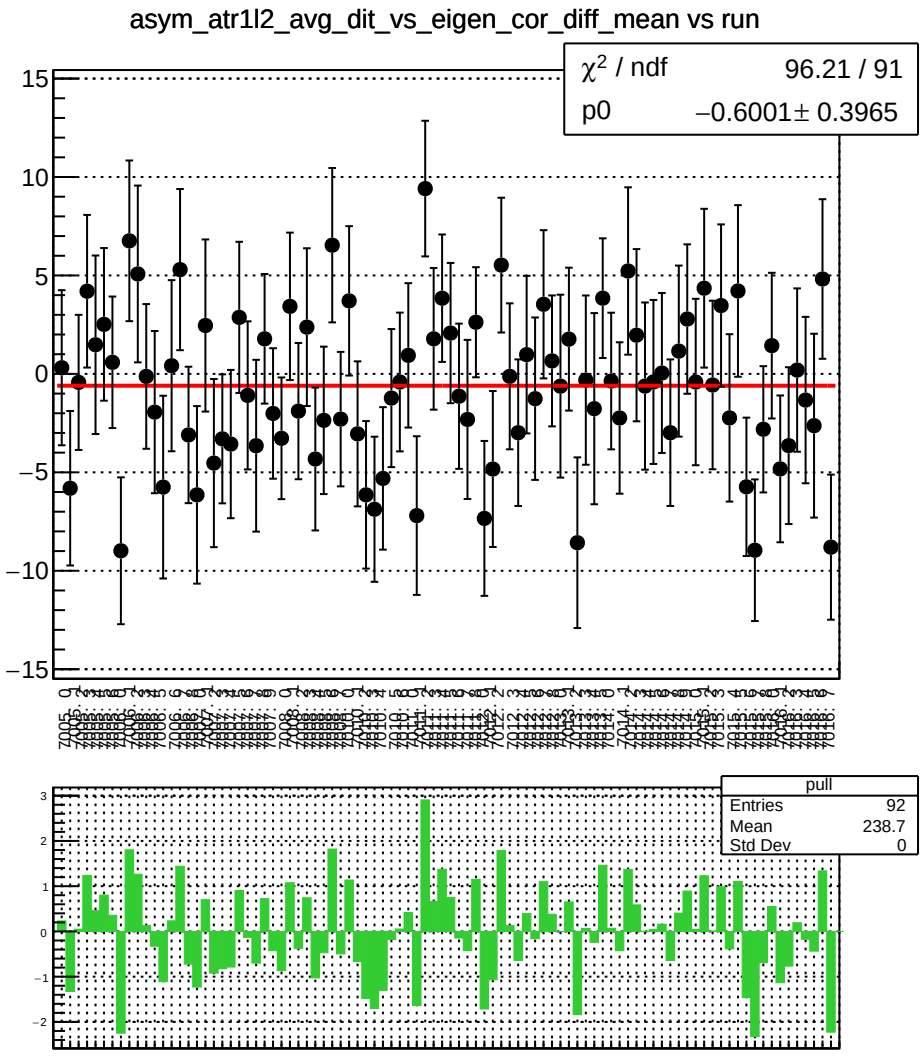

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.6 / 91
p0 6.143e−14 ± 1.108e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 29.79
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0908
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

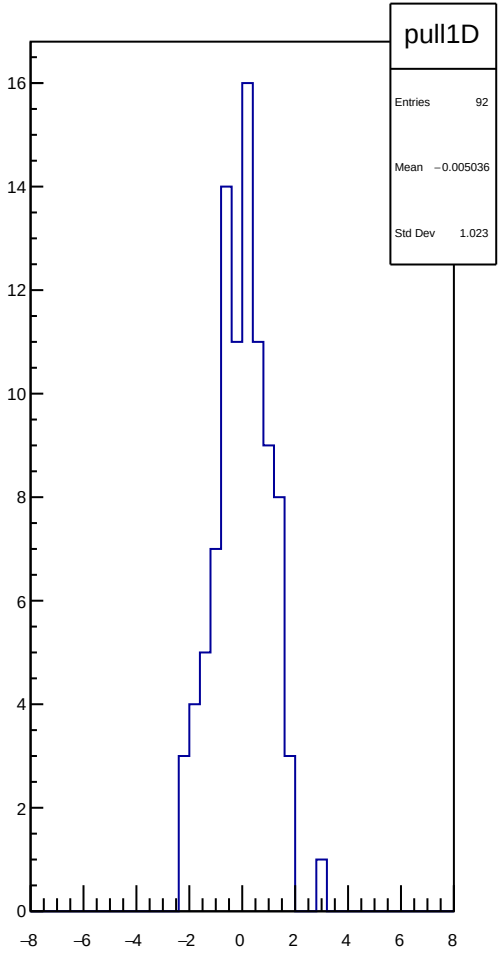

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.199e+06 / 91
p0 5.631e−11 ± 7.836e−14
1.2
1
0.8
0.6
0.4
0.2
0

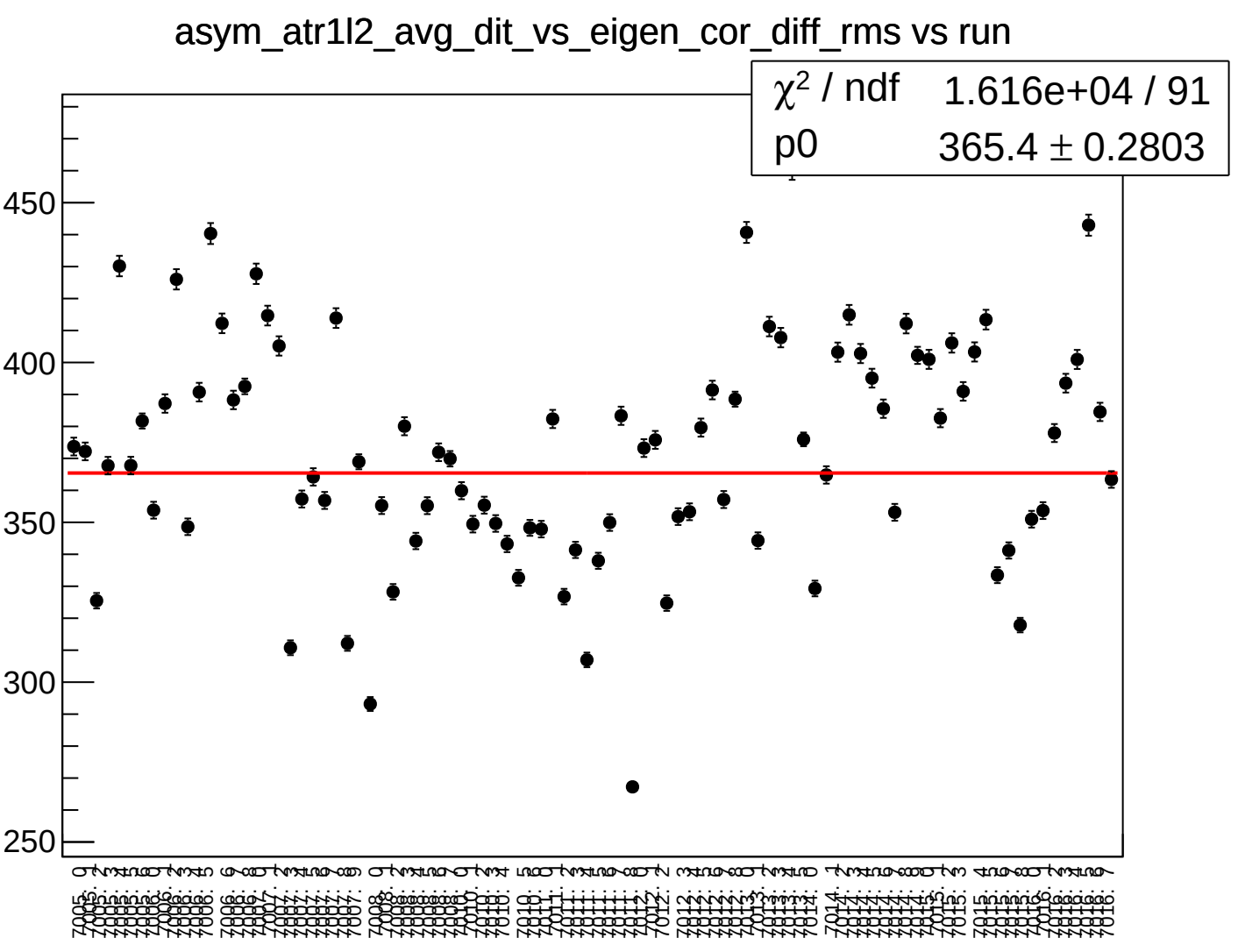

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.21 / 91
p0 −0.6001± 0.3965
pull
Entries 92
Mean 238.7
Std Dev 0

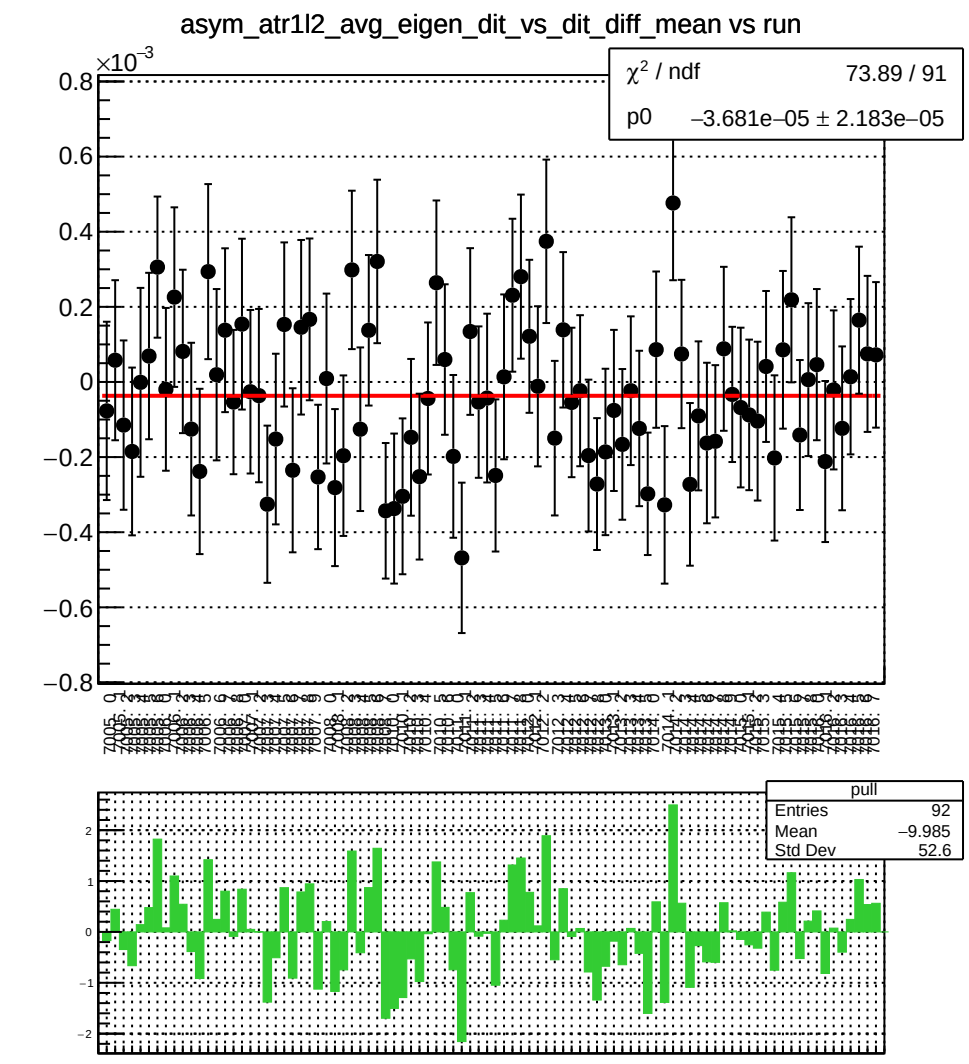

pull1D
Entries 92
Mean −0.005036
Std Dev 1.023

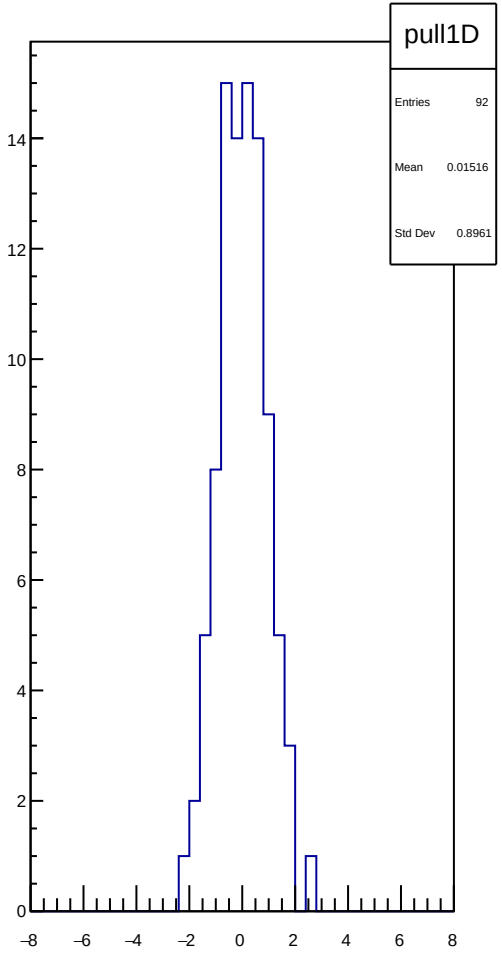

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.616e+04 / 91
p0 365.4 ± 0.2803
450
400
350
300
250

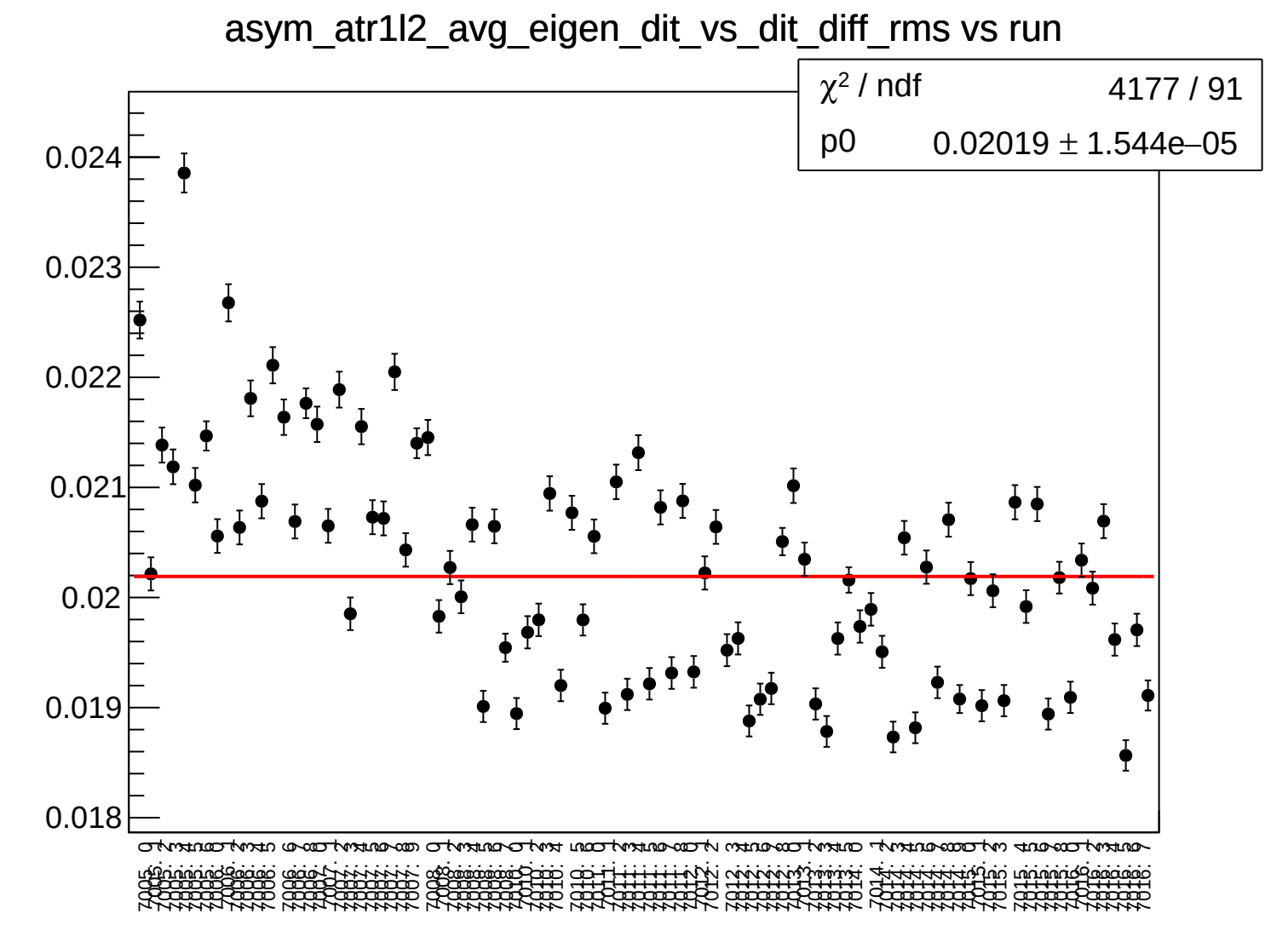

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.21 / 91
p0 −0.6001± 0.3965
pull
Entries 92
Mean 238.7
Std Dev 0

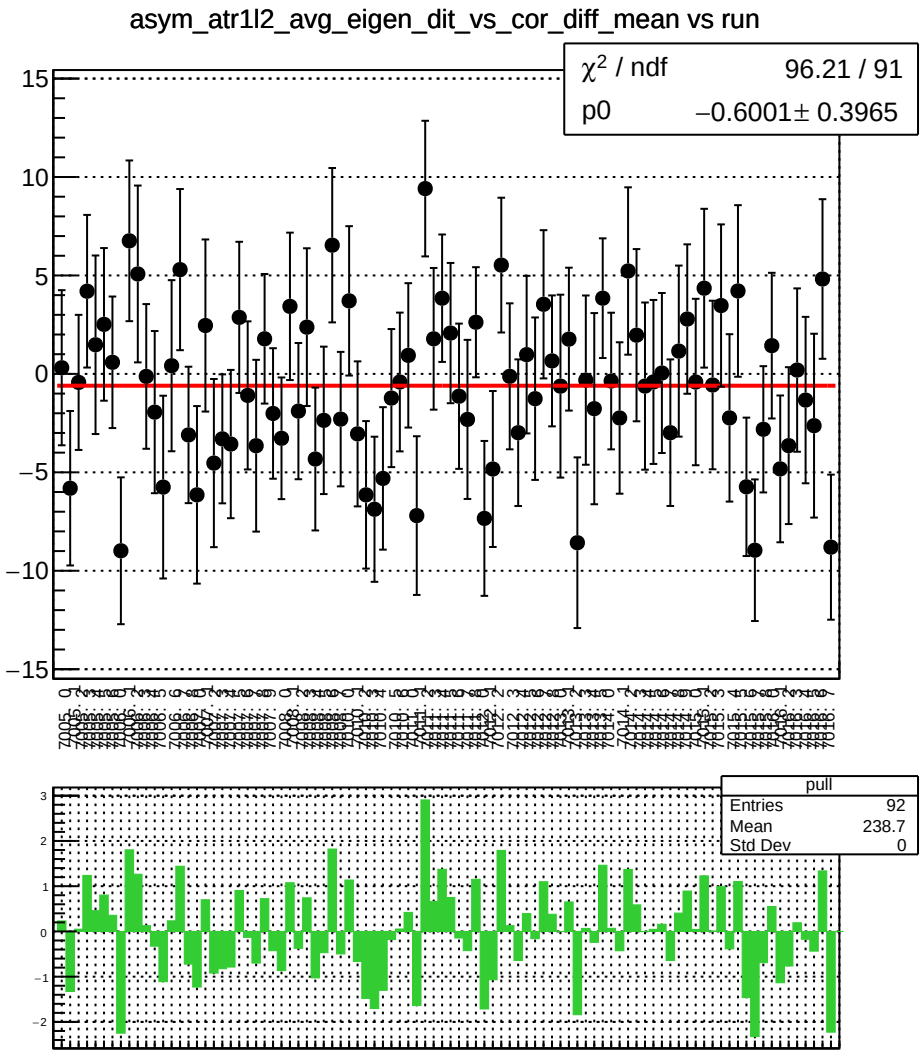

pull1D
Entries 92
Mean −0.005036
Std Dev 1.023

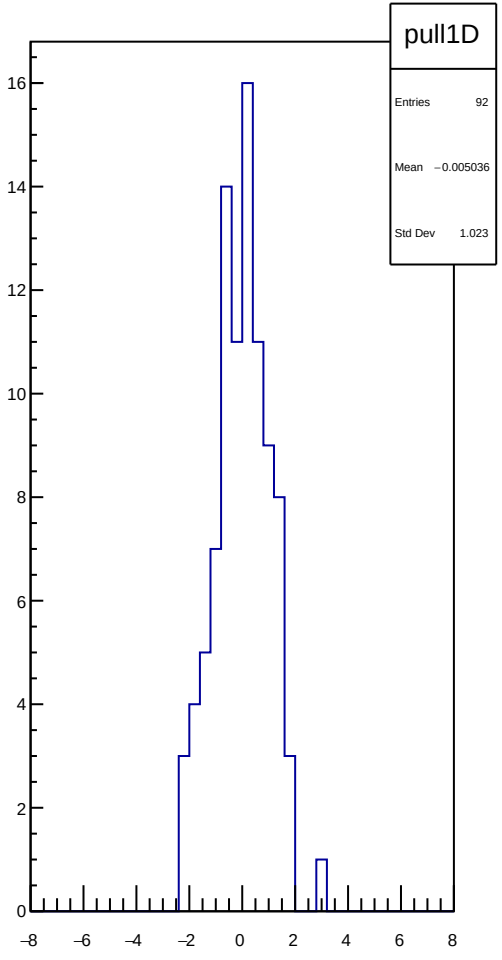

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.616e+04 / 91
p0 365.4 ± 0.2803
450
400
350
300
250

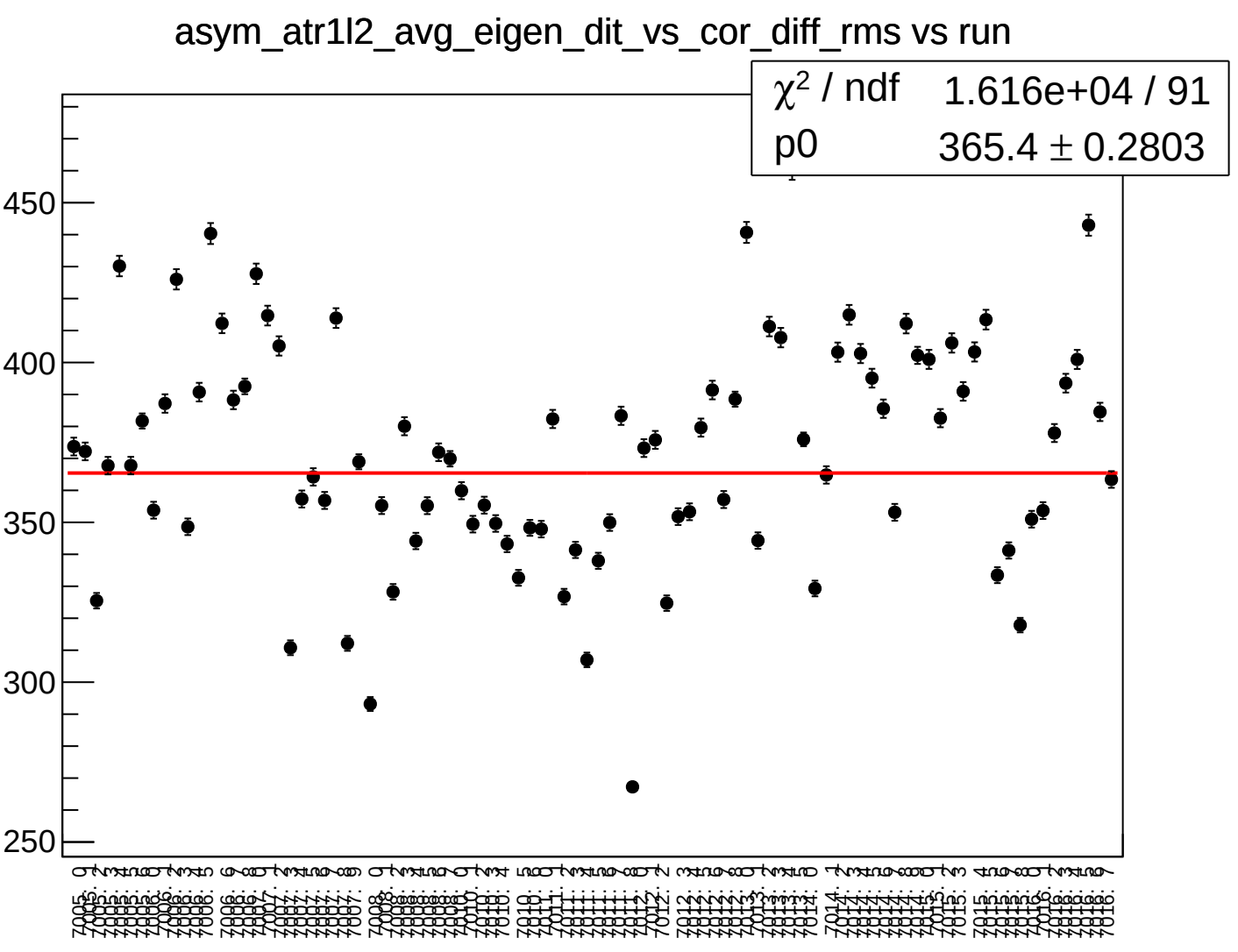

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.89 / 91
p0 −3.681e−05 ± 2.183e−05
pull
Entries 92
Mean −9.985
Std Dev 52.6

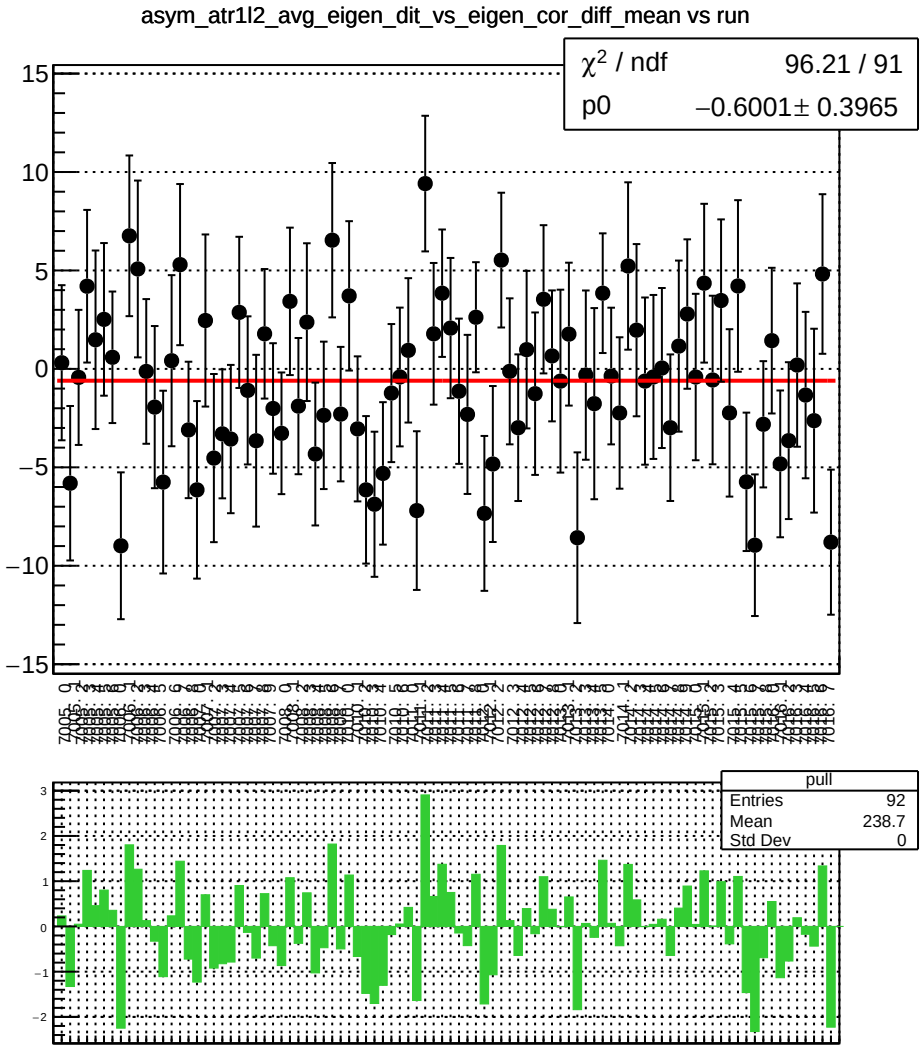

pull1D
Entries 92
Mean 0.01516
Std Dev 0.8961

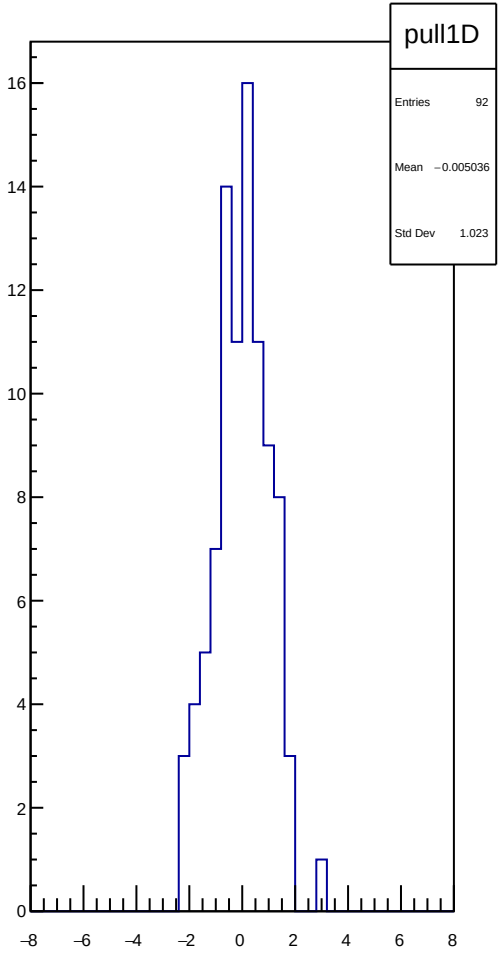

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4177 / 91
p0 0.02019 ± 1.544e−05
0.024
0.023
0.022
0.021
0.02
0.019
0.018

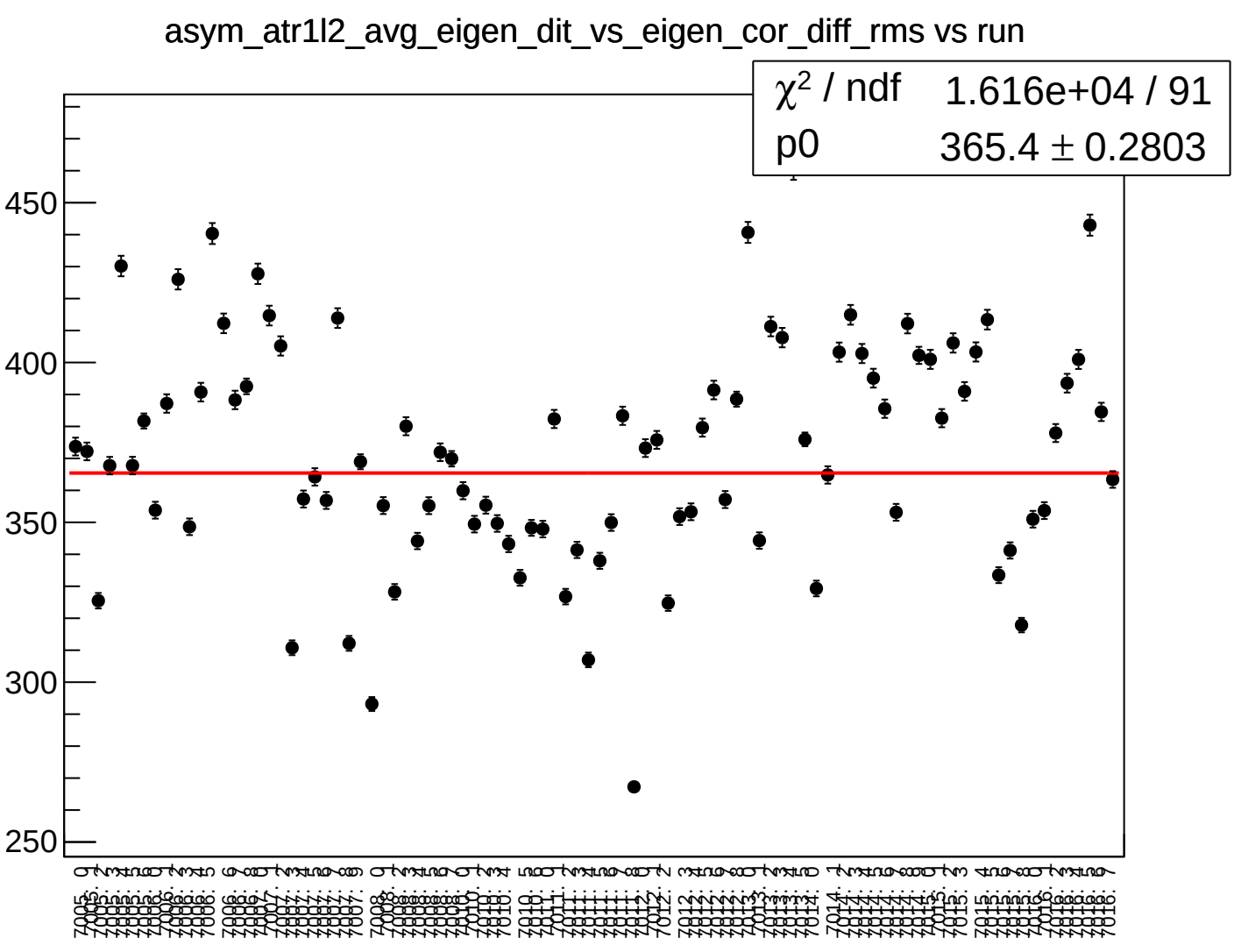

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.21 / 91
p0 −0.6001± 0.3965
pull
Entries 92
Mean 238.7
Std Dev 0

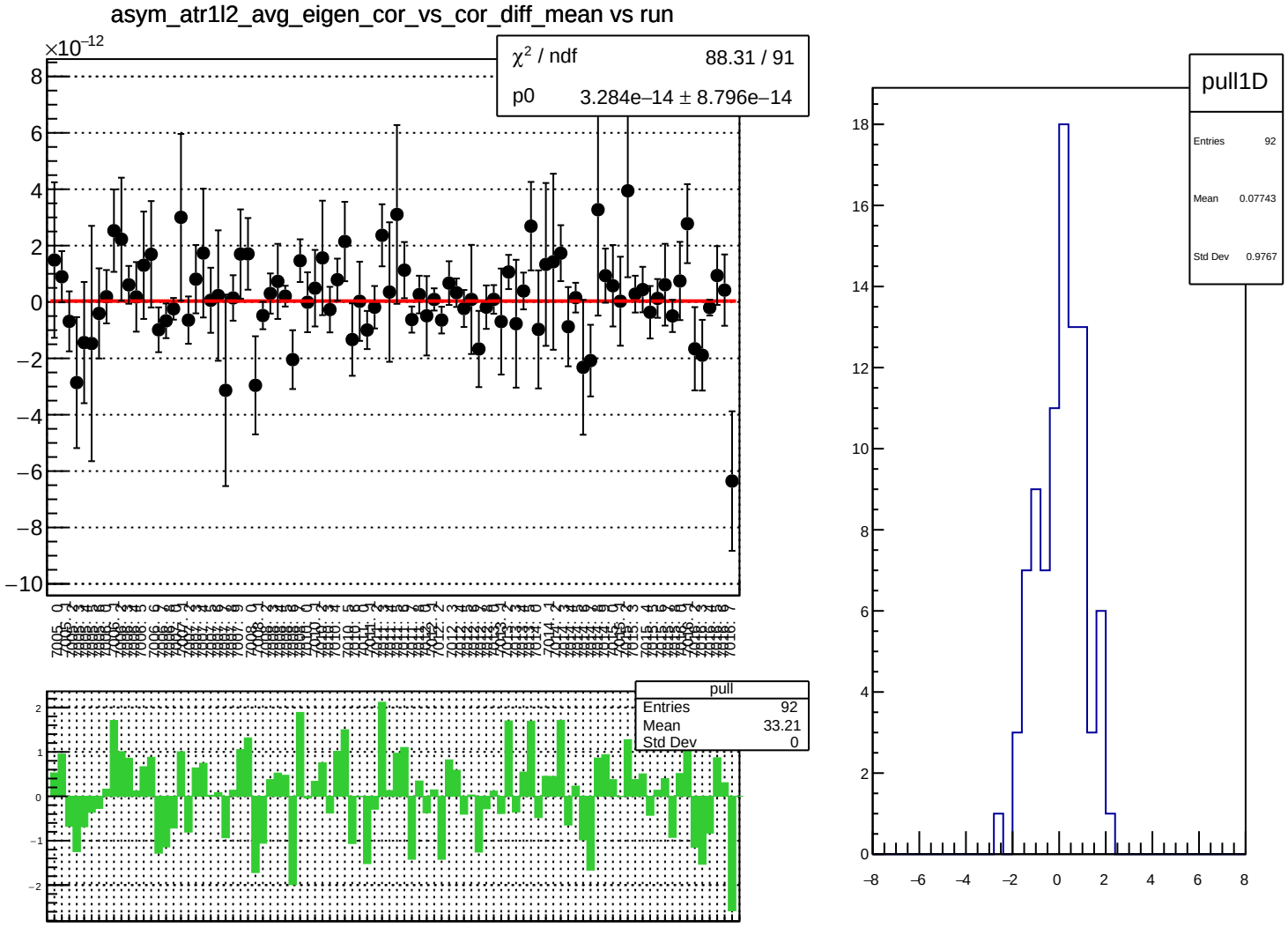

pull1D
Entries 92
Mean −0.005036
Std Dev 1.023

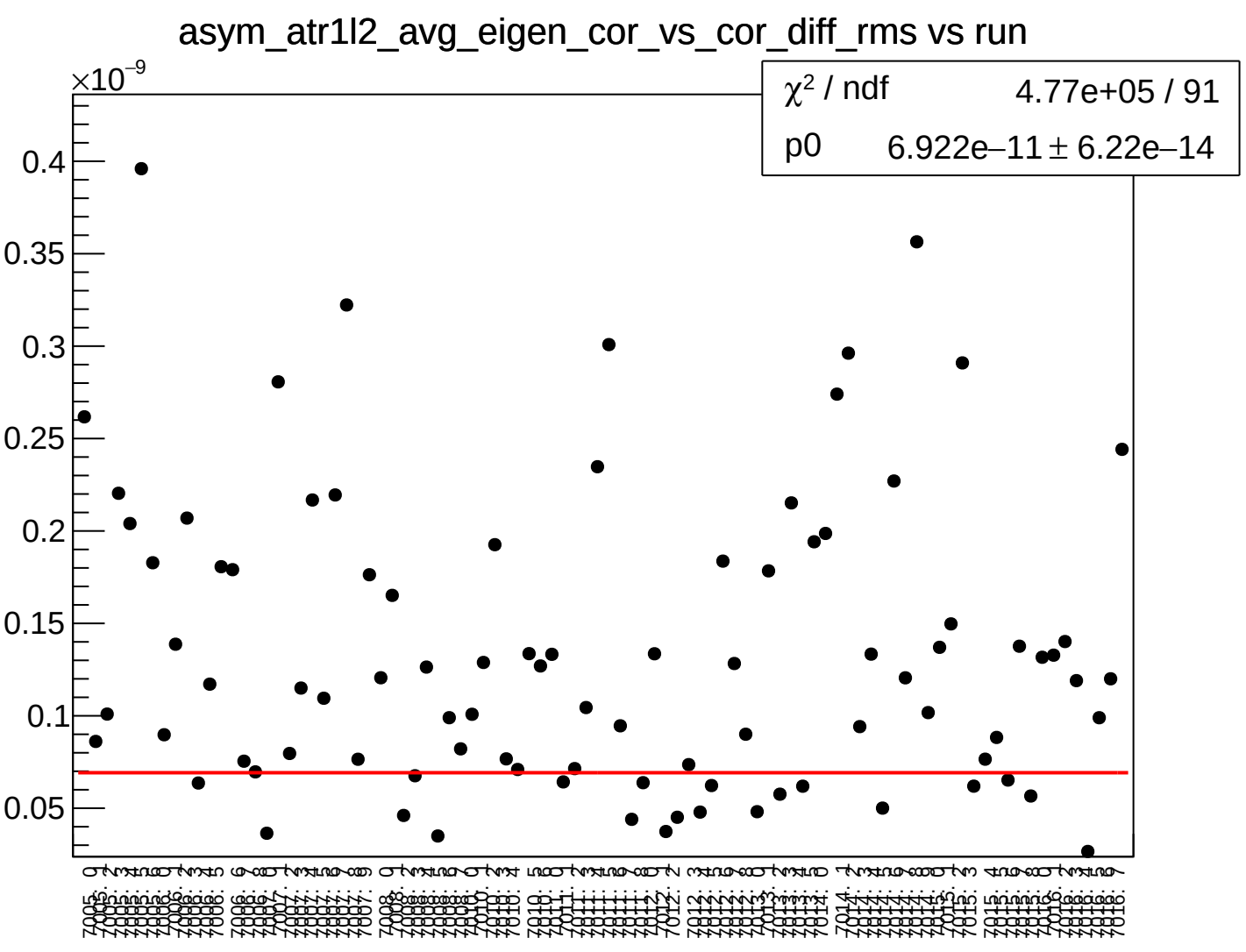

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.616e+04 / 91
p0 365.4 ± 0.2803
450
400
350
300
250

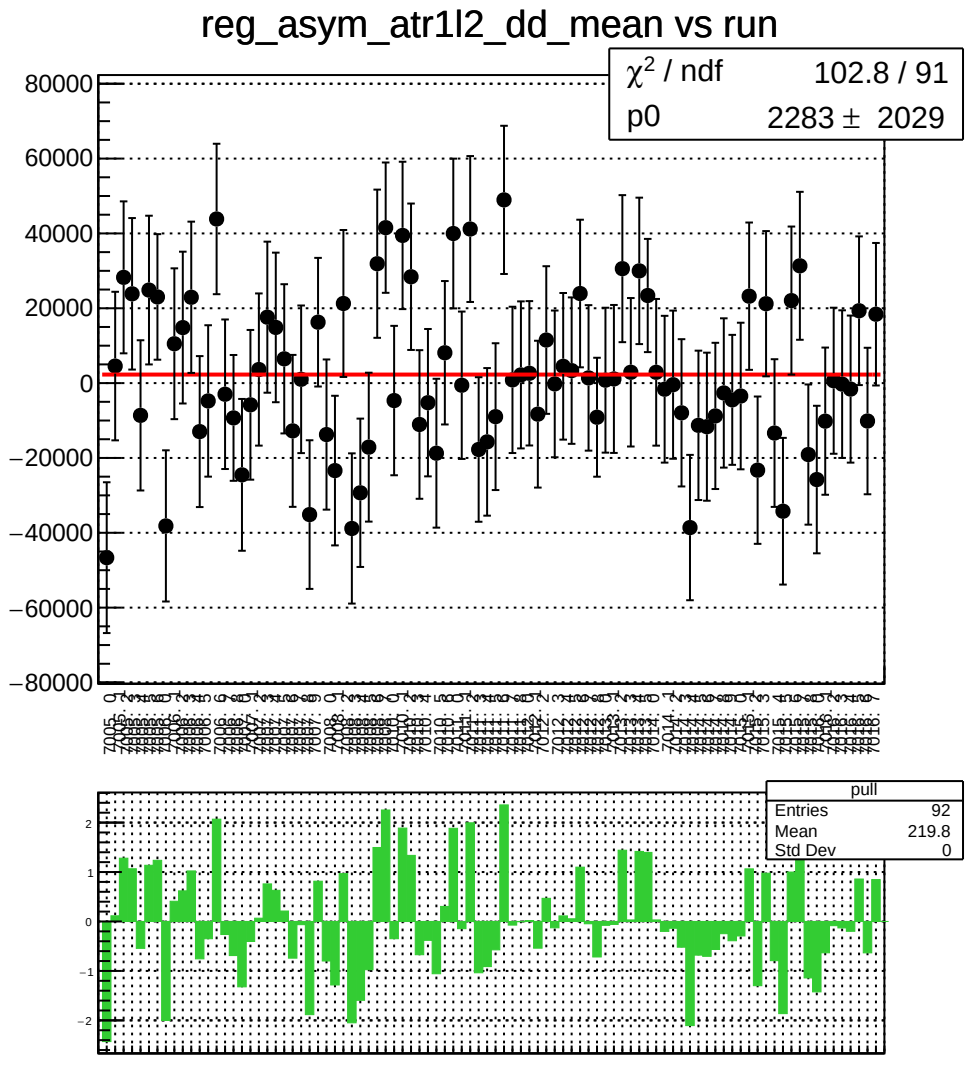

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.21 / 91
p0 −0.6001± 0.3965
pull
Entries 92
Mean 238.7
Std Dev 0

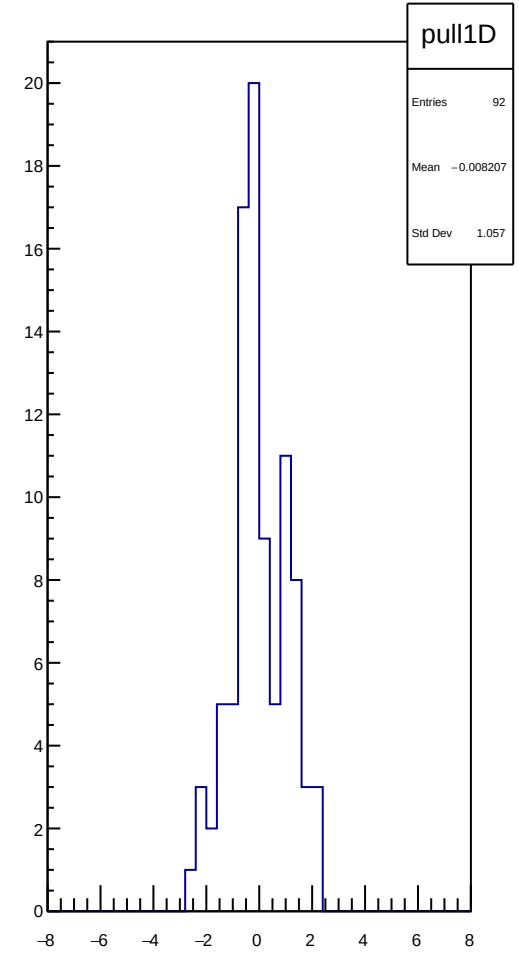

pull1D
Entries 92
Mean −0.005036
Std Dev 1.023

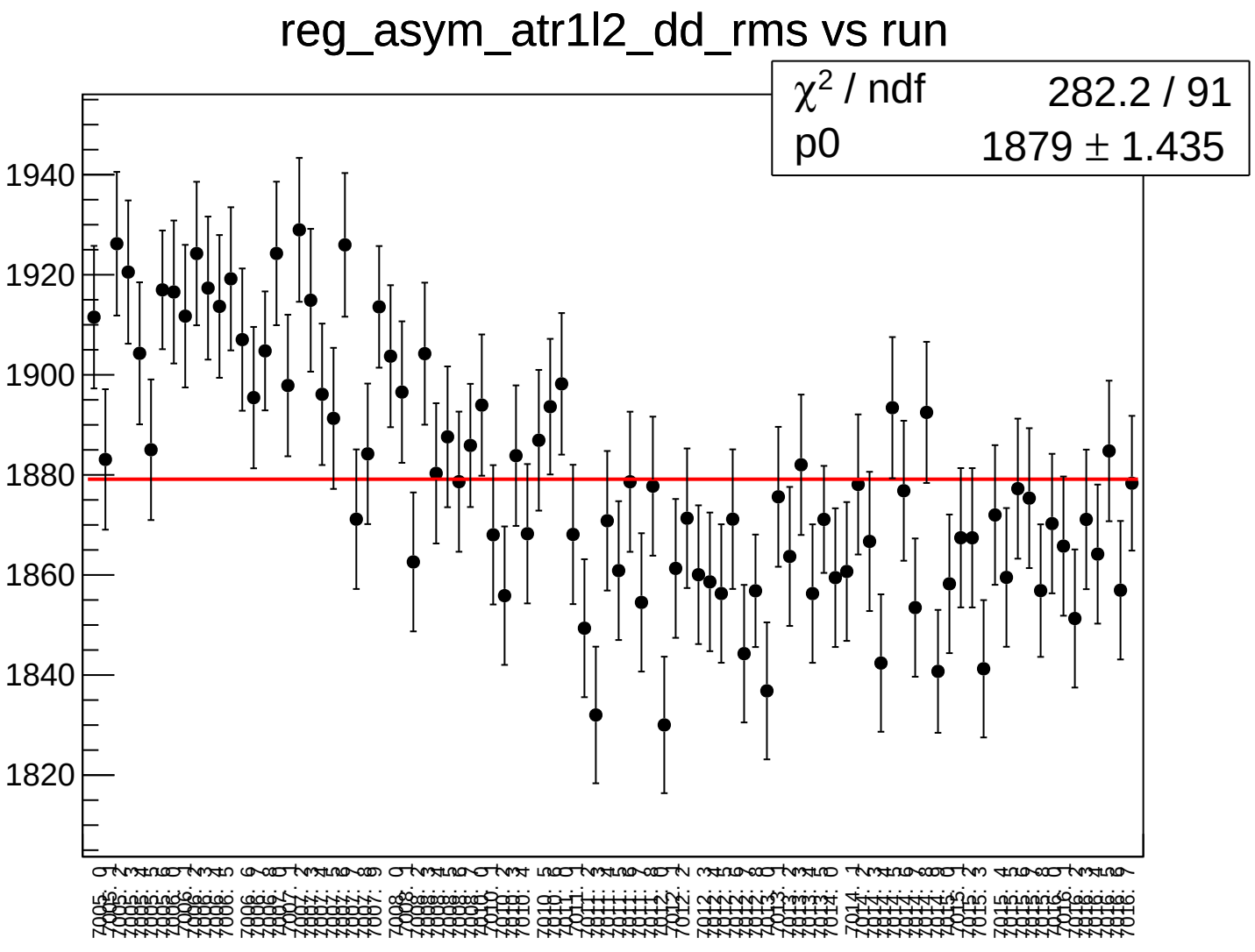

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.616e+04 / 91
p0 365.4 ± 0.2803
450
400
350
300
250

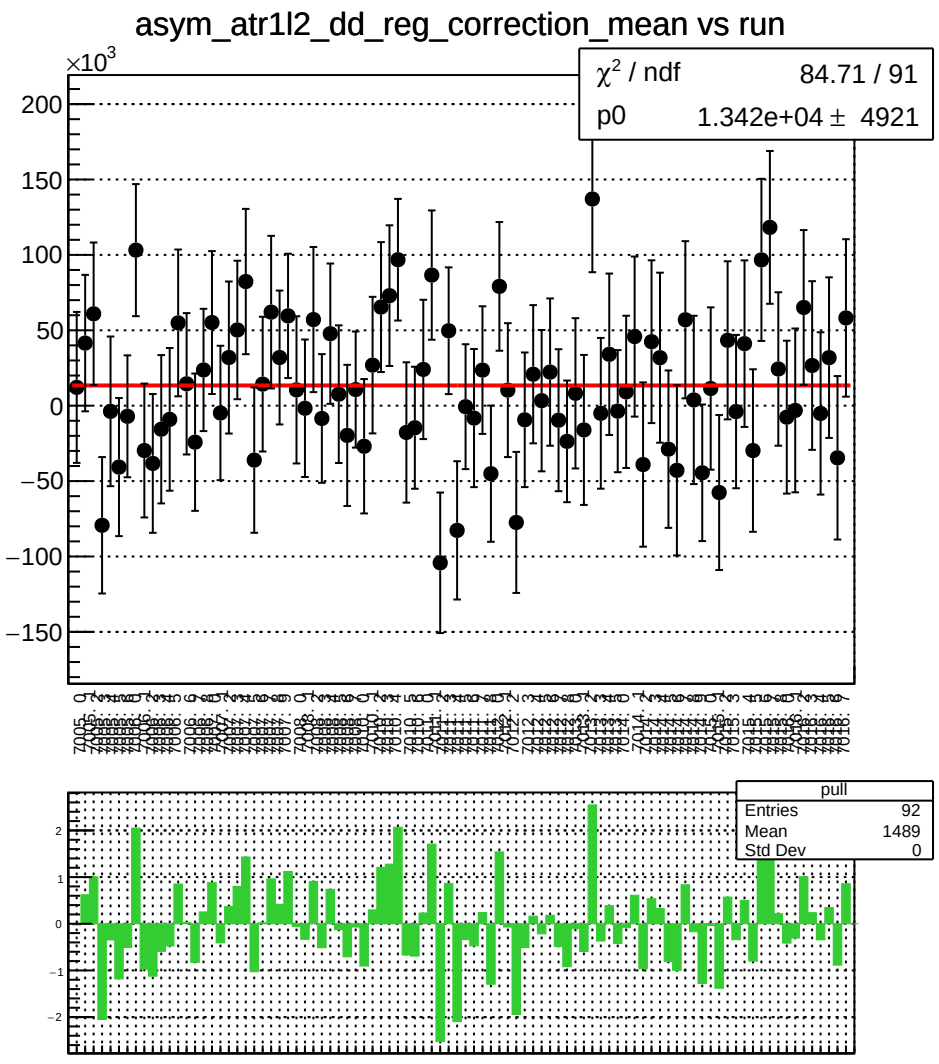

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.31 / 91
p0 3.284e−14 ± 8.796e−14
pull
Entries 92
Mean 33.21
Std Dev 0
pull1D
Entries 92
Mean 0.07743
Std Dev 0.9767

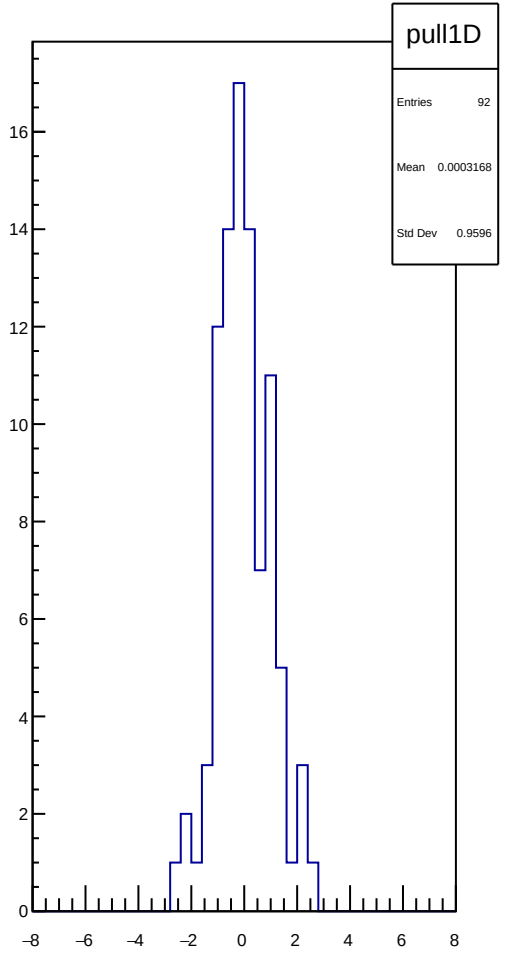

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.77e+05 / 91
p0 6.922e−11 ± 6.22e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

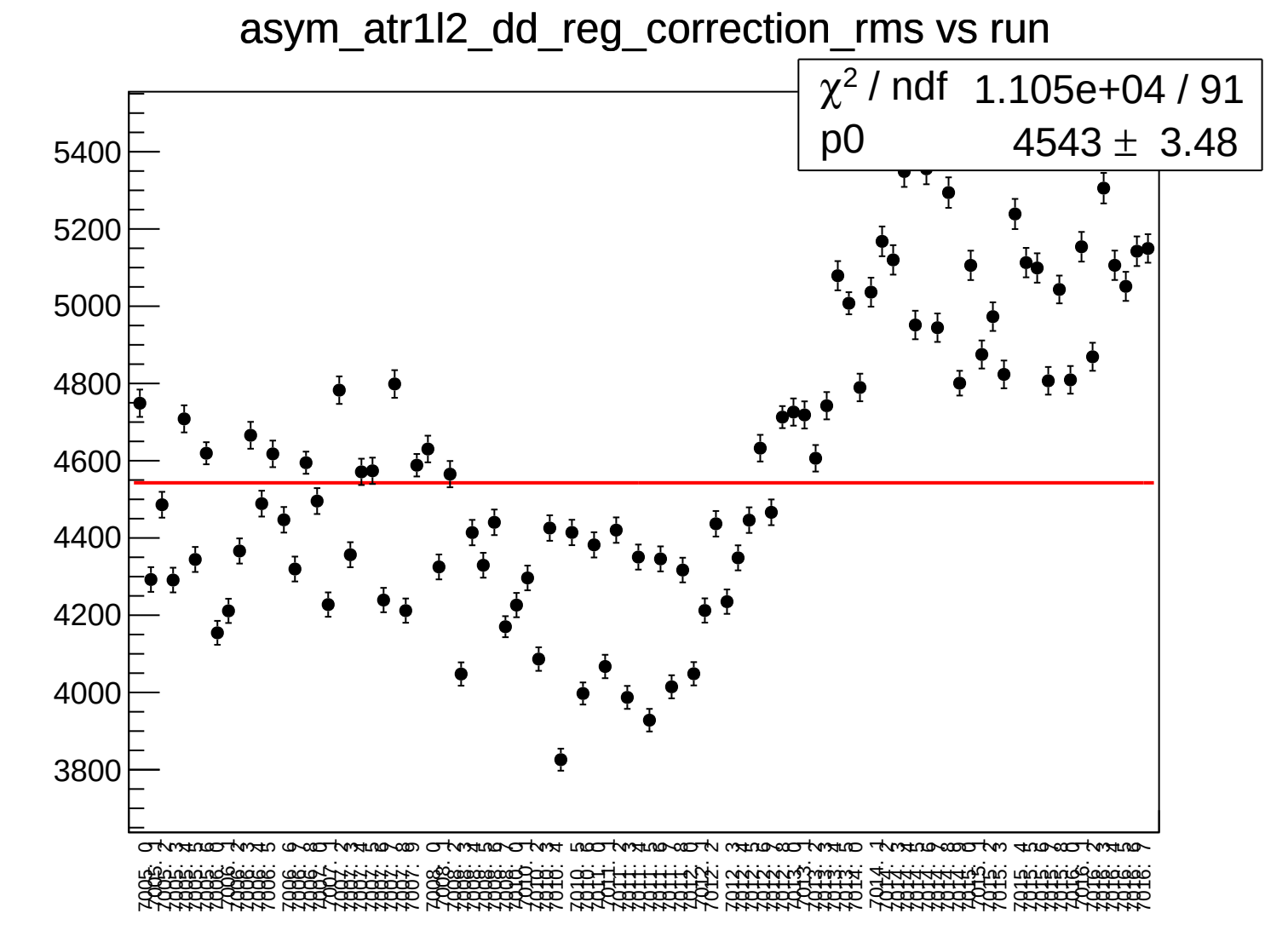

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 102.8 / 91
p0 2283 ± 2029
pull
Entries 92
Mean 219.8
Std Dev 0

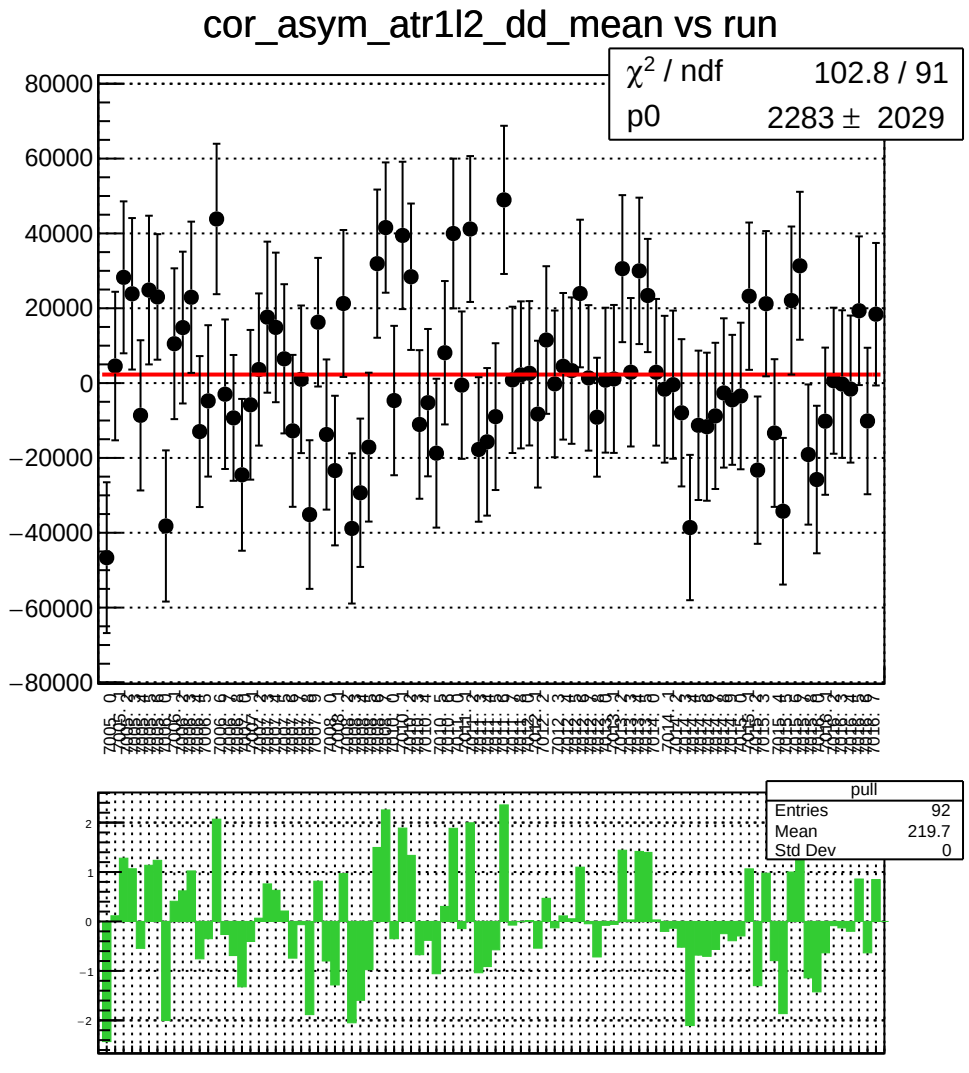

pull1D
Entries 92
Mean −0.008207
Std Dev 1.057

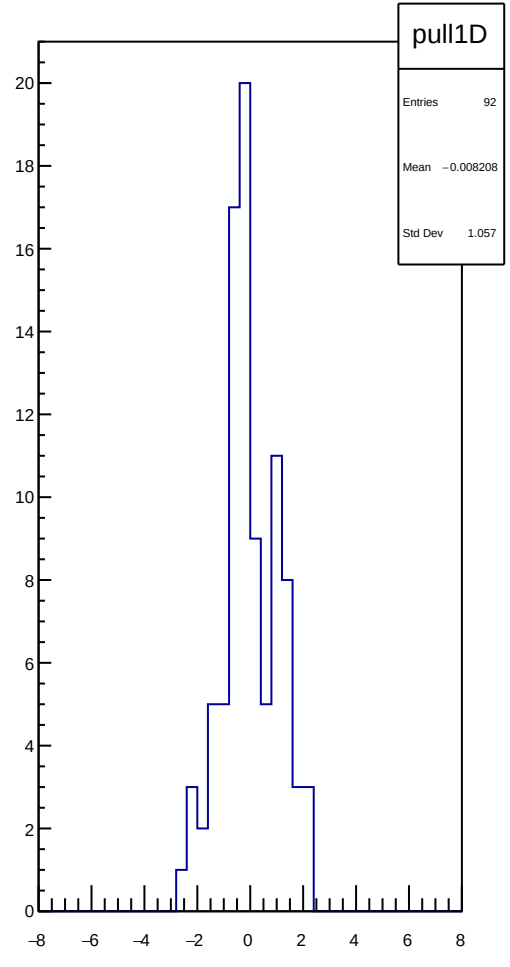

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 282.2 / 91
p0 1879 ± 1.435
1940
1920
1900
1880
1860
1840
1820

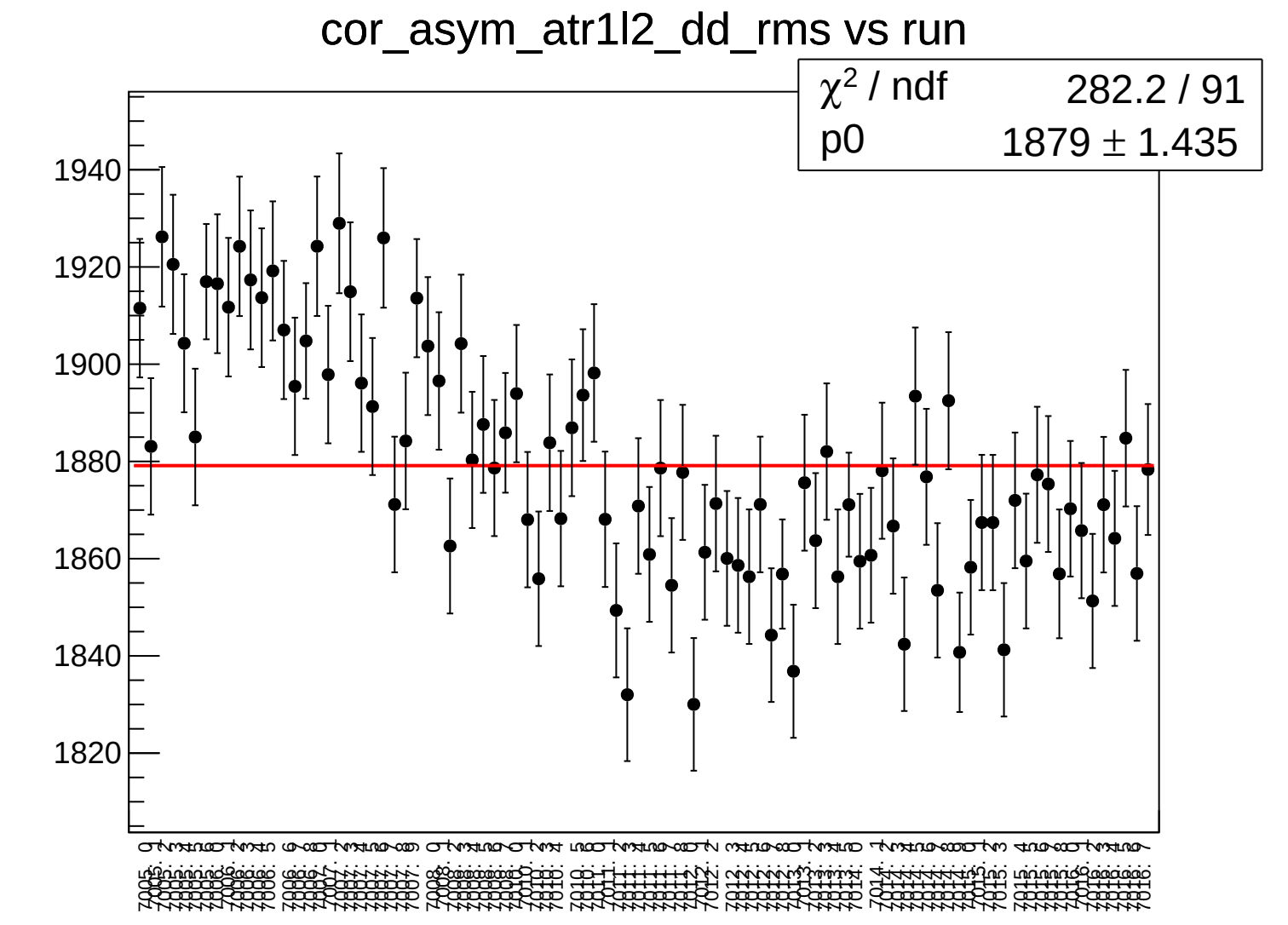

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.71 / 91
p0 1.342e+04 ± 4921
pull
Entries 92
Mean 1489
Std Dev 0

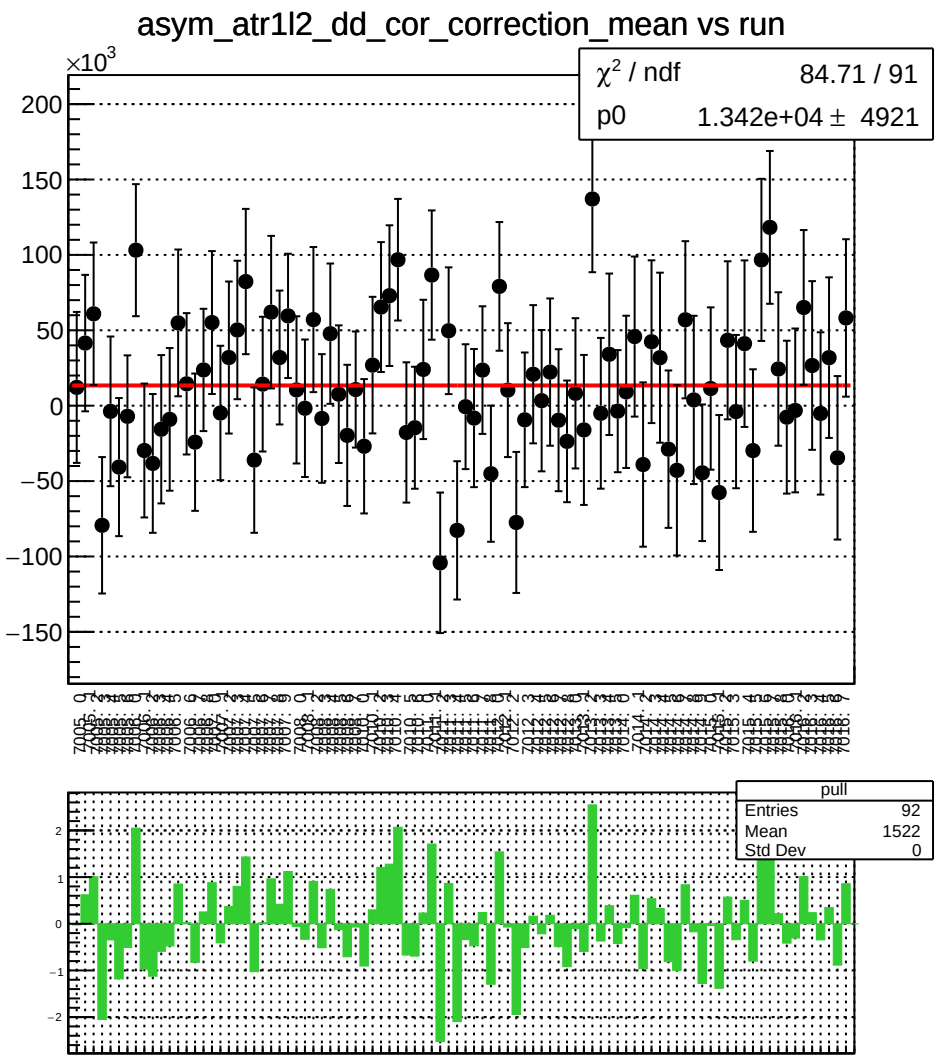

pull1D
Entries 92
Mean 0.0003168
Std Dev 0.9596

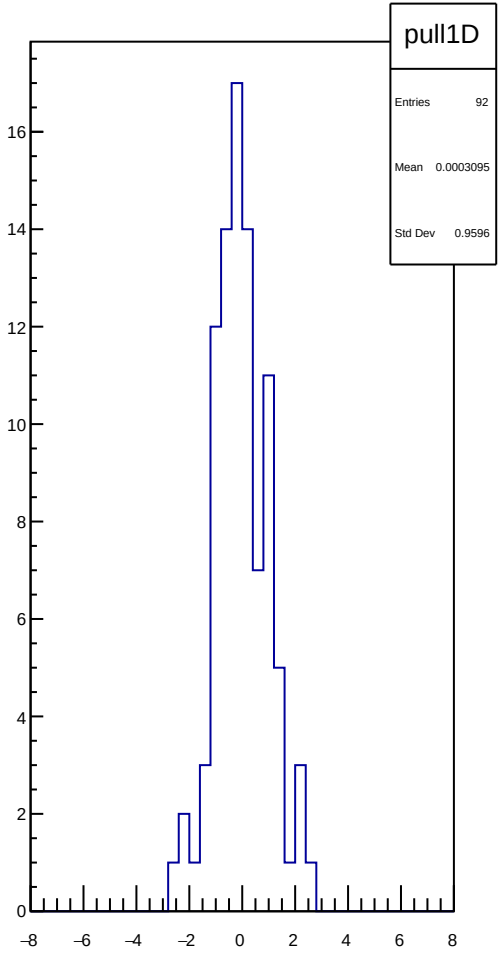

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.105e+04 / 91
p0 4543 ± 3.48
5400
5200
5000
4800
4600
4400
4200
4000
3800

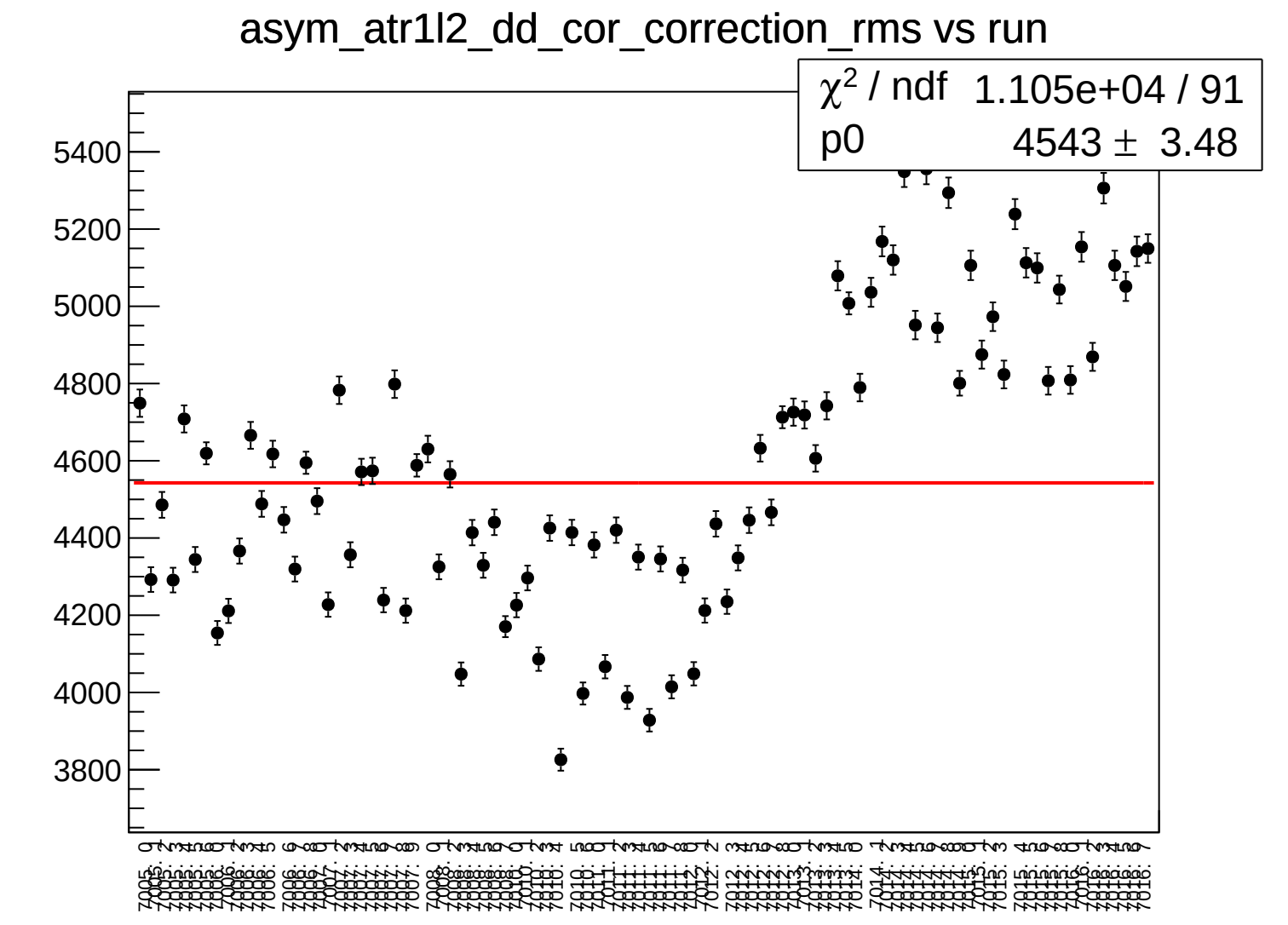

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 102.8 / 91
p0 2283 ± 2029
pull
Entries 92
Mean 219.7
Std Dev 0

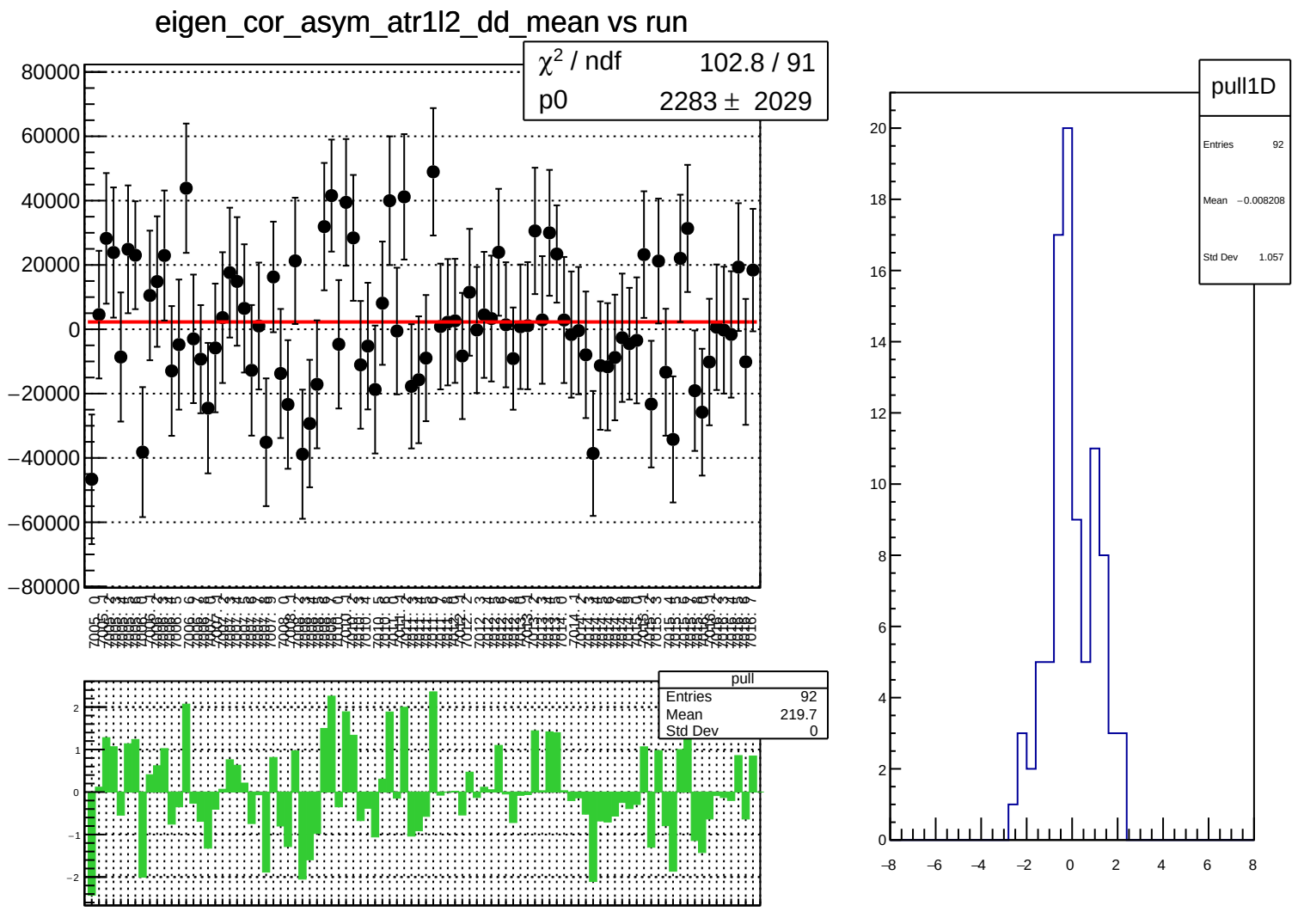

pull1D
Entries 92
Mean −0.008208
Std Dev 1.057

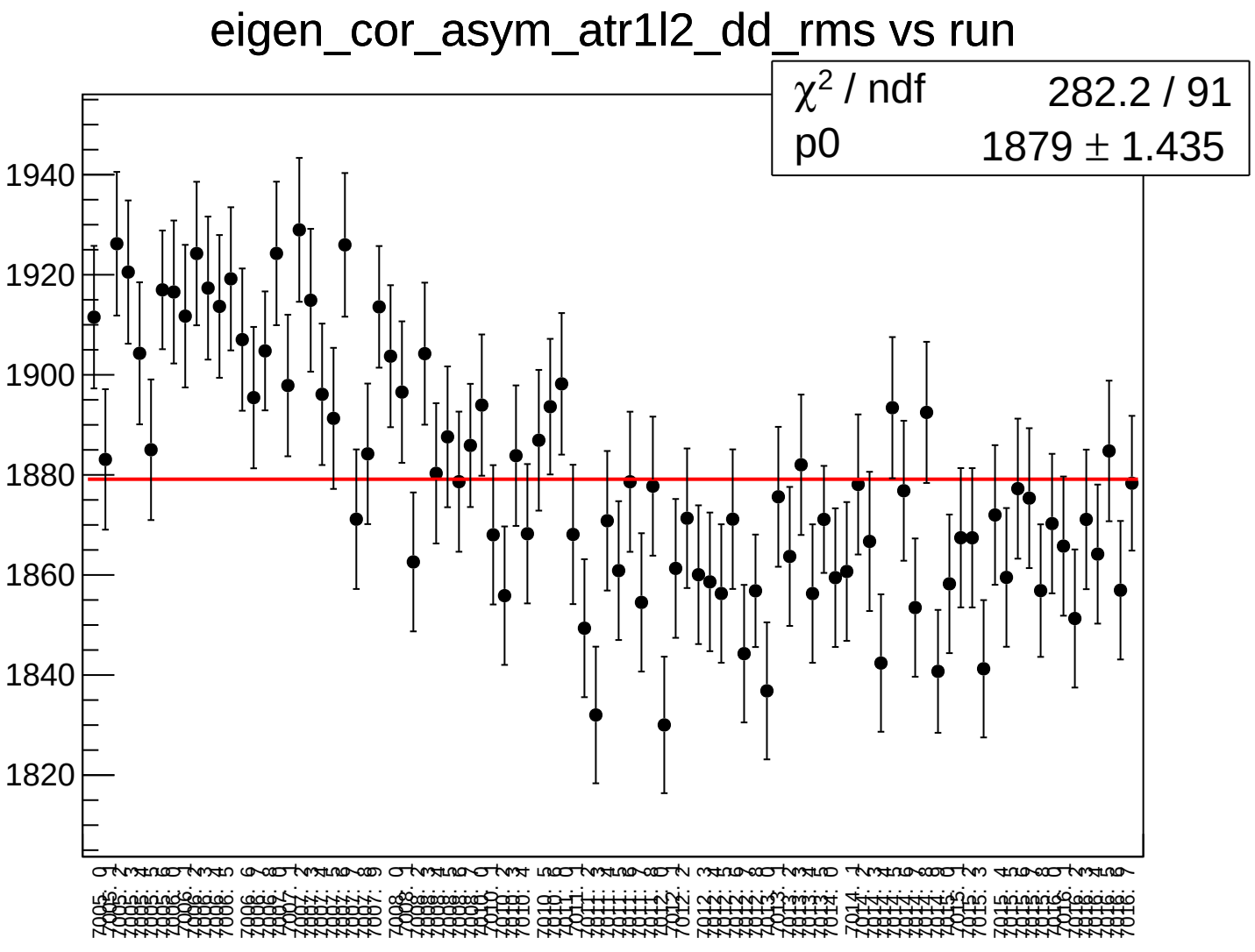

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 282.2 / 91
p0 1879 ± 1.435
1940
1920
1900
1880
1860
1840
1820

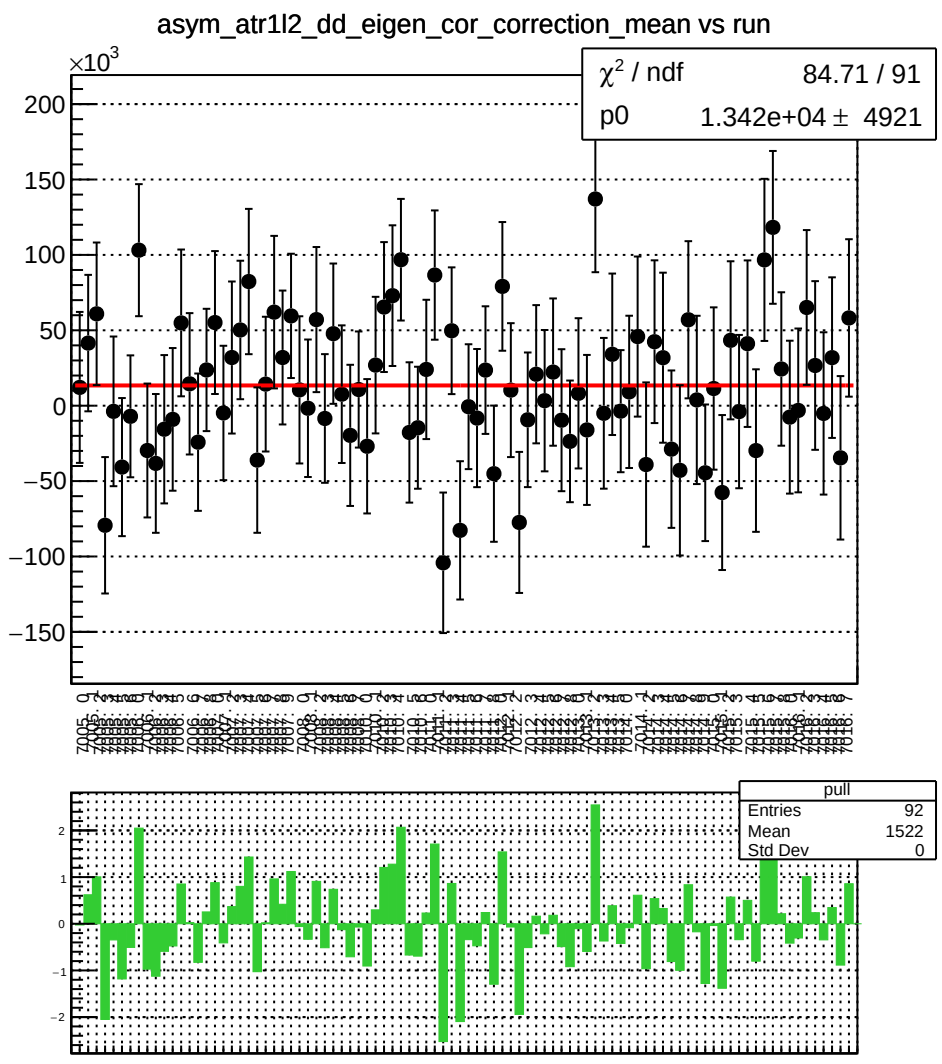

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.71 / 91
p0 1.342e+04 ± 4921
pull
Entries 92
Mean 1522
Std Dev 0

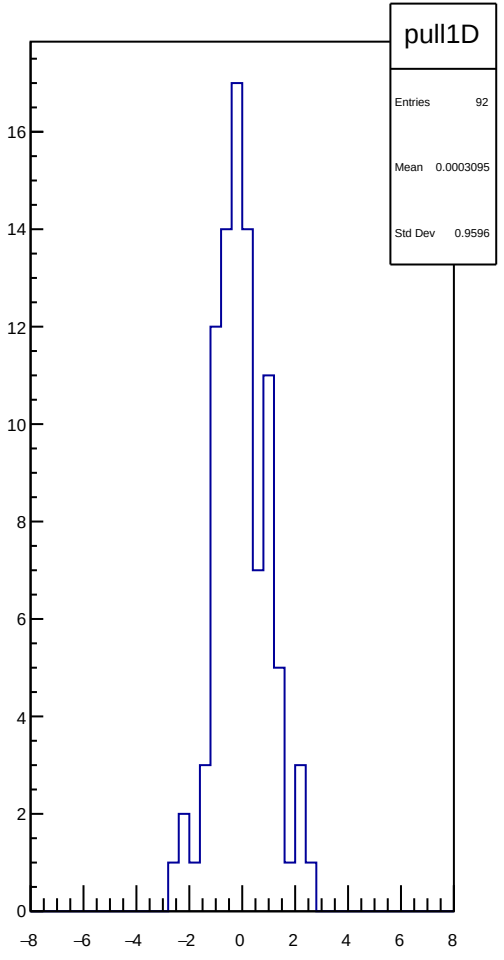

pull1D
Entries 92
Mean 0.0003095
Std Dev 0.9596

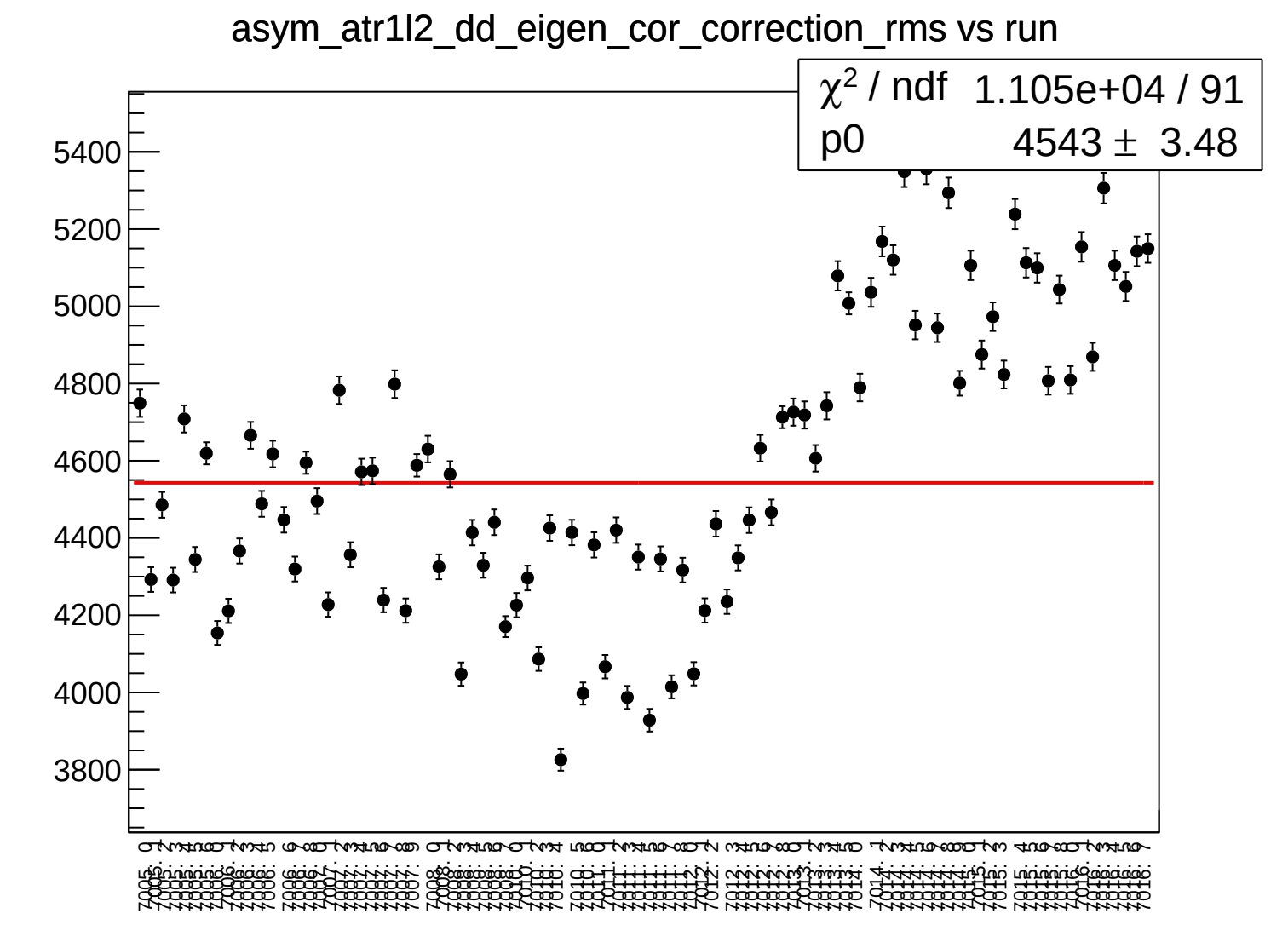

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.105e+04 / 91
p0 4543 ± 3.48
5400
5200
5000
4800
4600
4400
4200
4000
3800

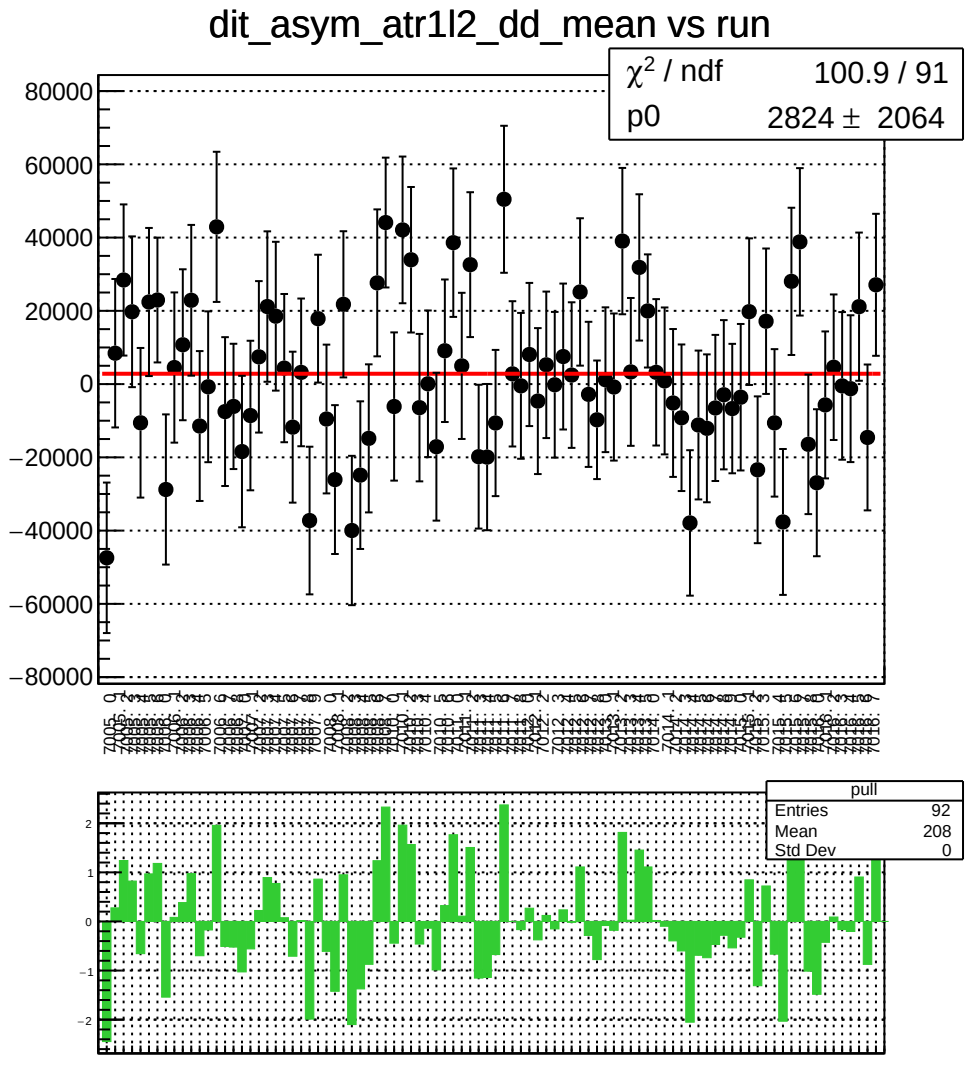

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 102.8 / 91
p0 2283 ± 2029
pull
Entries 92
Mean 219.7
Std Dev 0
pull1D
Entries 92
Mean −0.008208
Std Dev 1.057

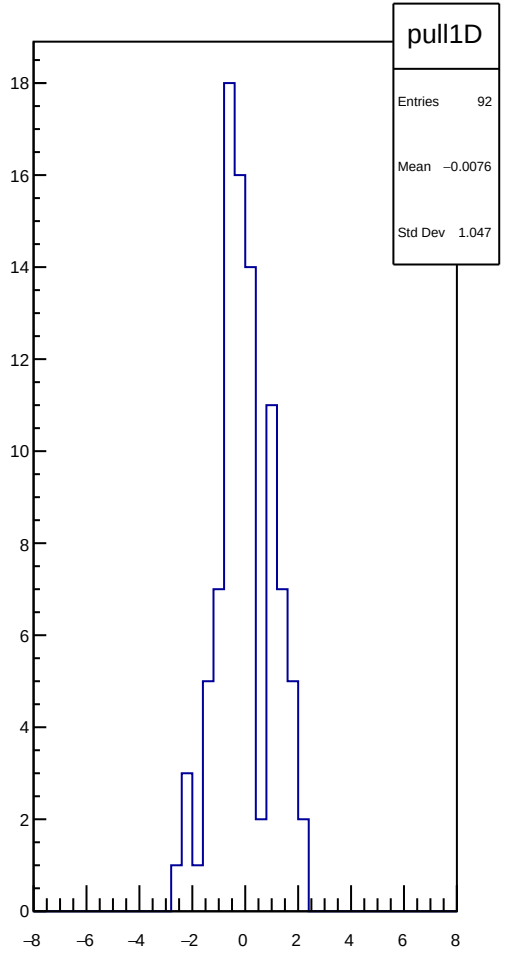

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 282.2 / 91
p0 1879 ± 1.435
1940
1920
1900
1880
1860
1840
1820

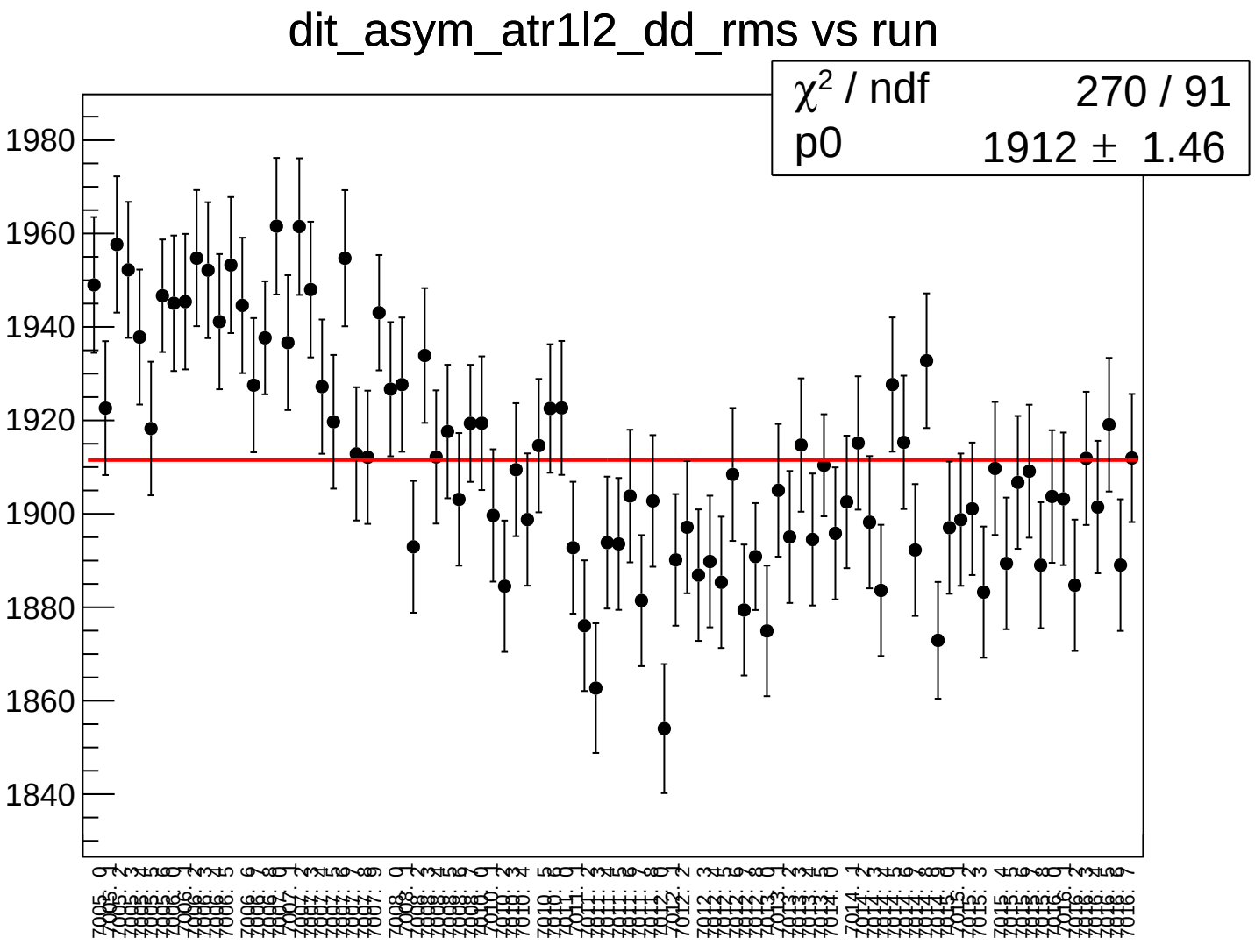

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.71 / 91
p0 1.342e+04 ± 4921
pull
Entries 92
Mean 1522
Std Dev 0

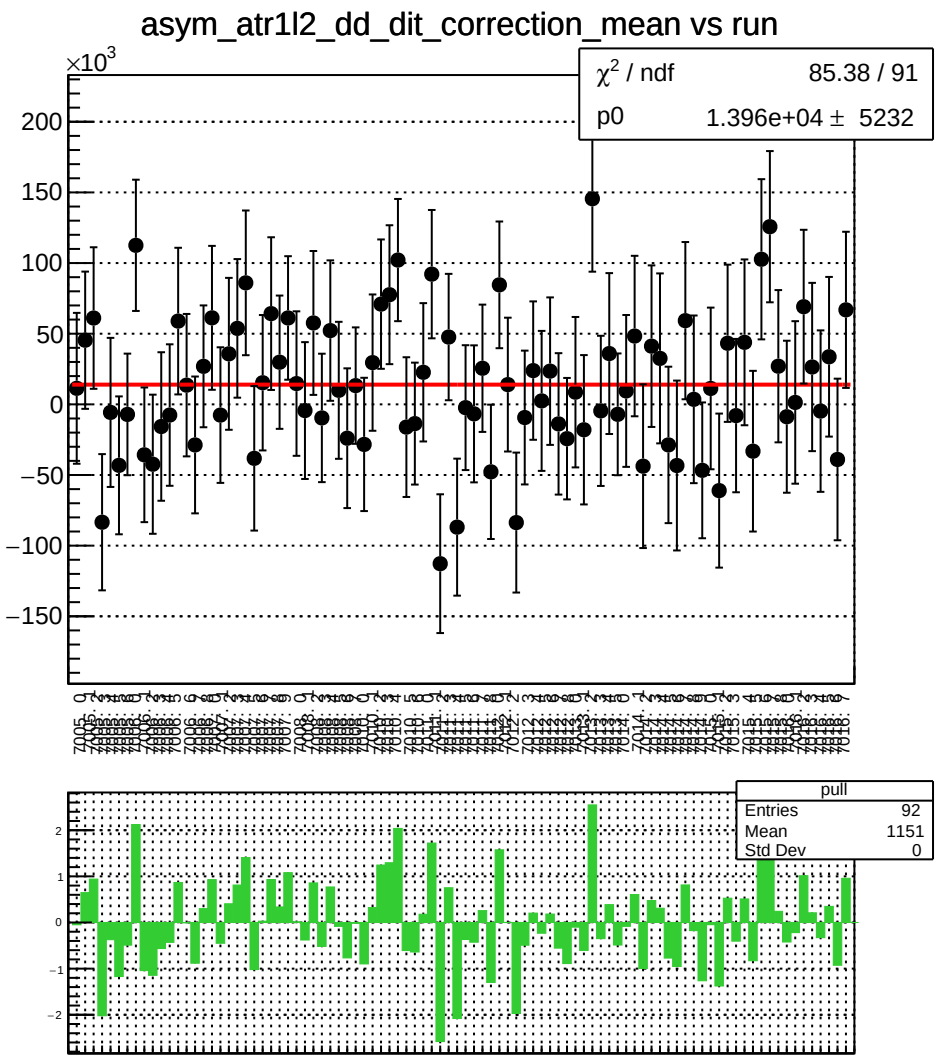

pull1D
Entries 92
Mean 0.0003095
Std Dev 0.9596

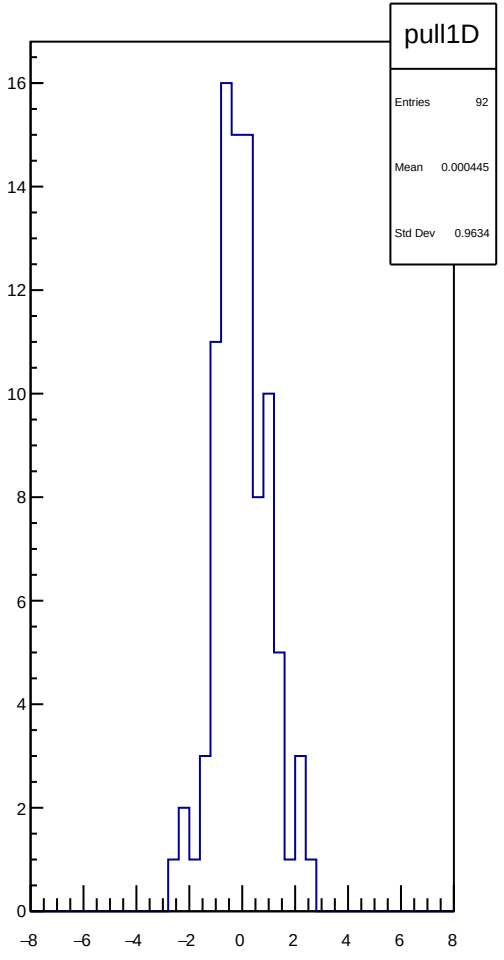

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.105e+04 / 91
p0 4543 ± 3.48
5400
5200
5000
4800
4600
4400
4200
4000
3800

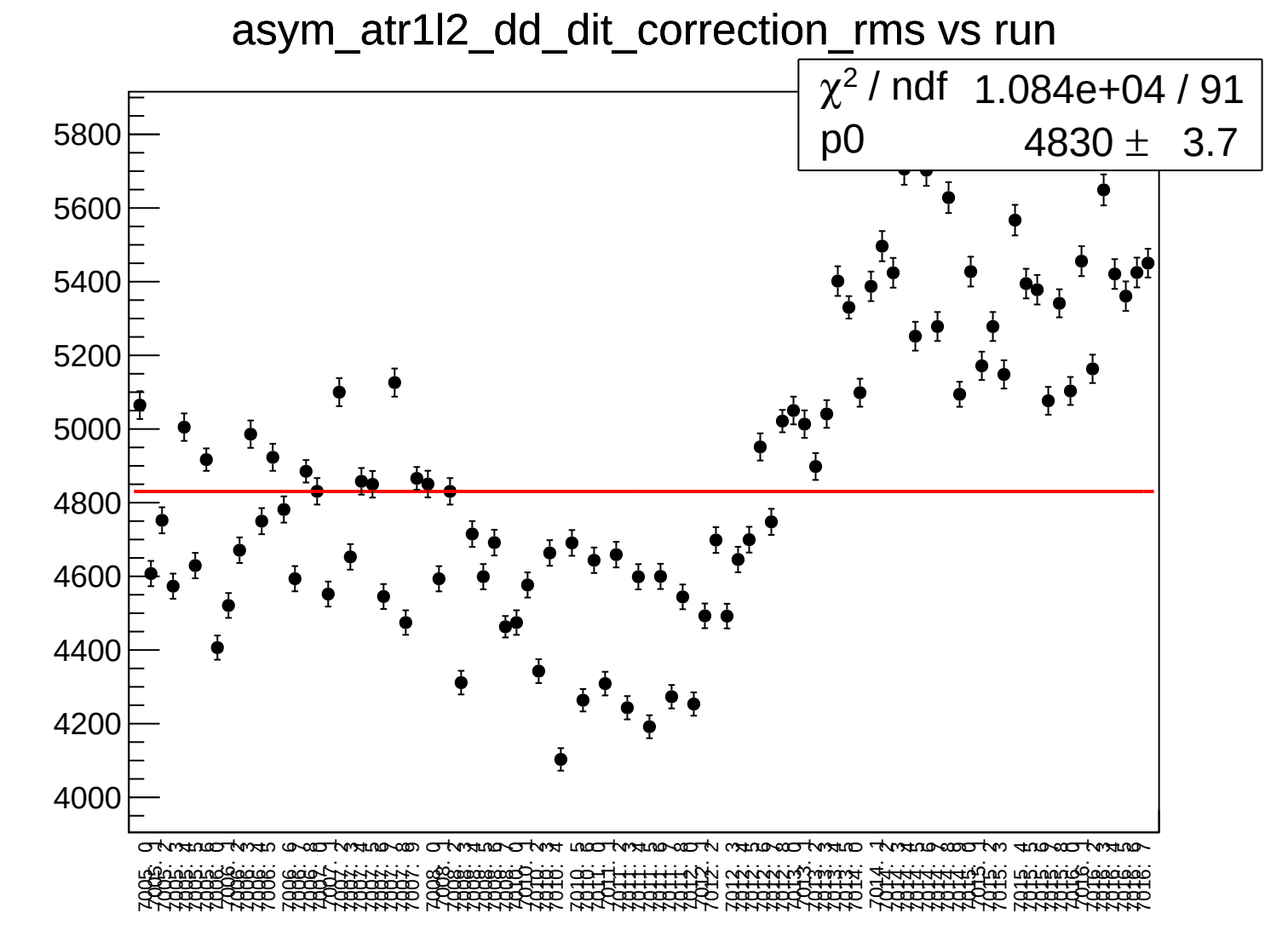

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 100.9 / 91
p0 2824 ± 2064
pull
Entries 92
Mean 208
Std Dev 0

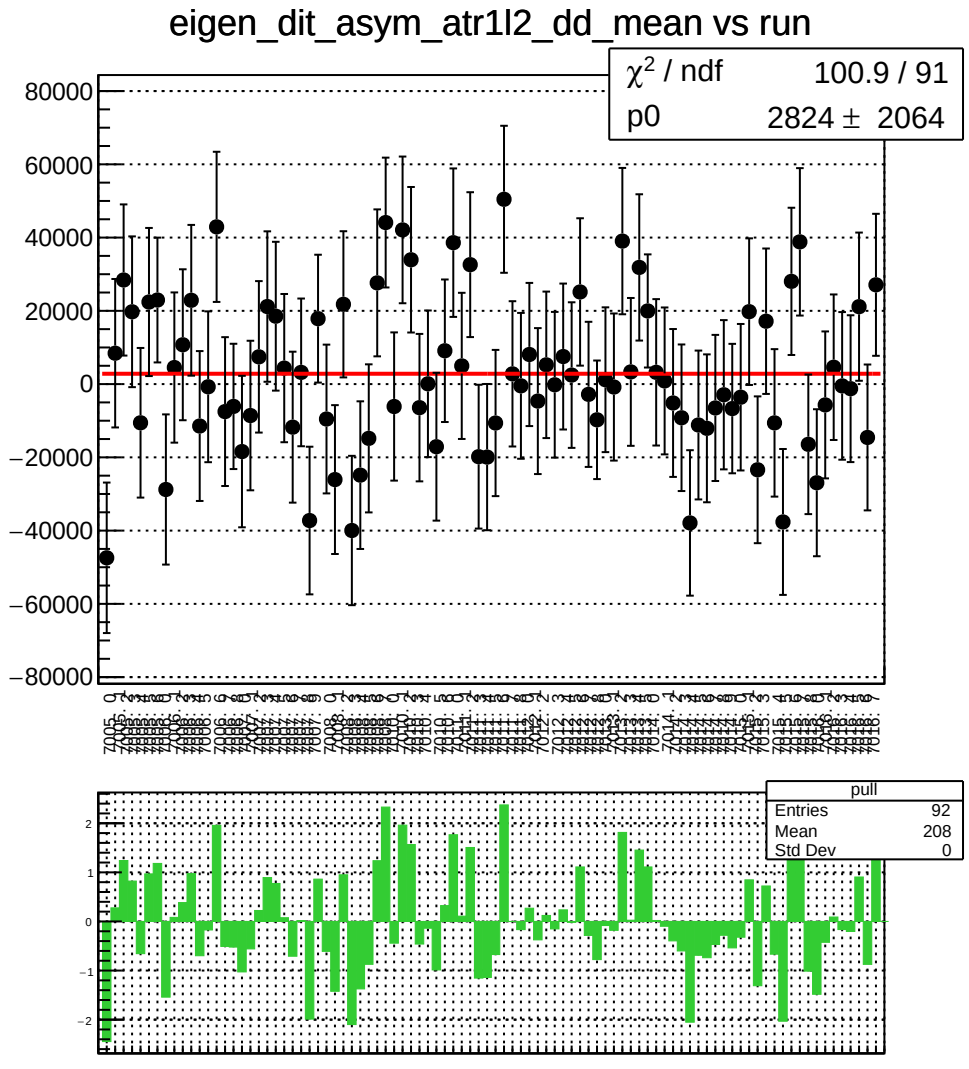

pull1D
Entries 92
Mean −0.0076
Std Dev 1.047

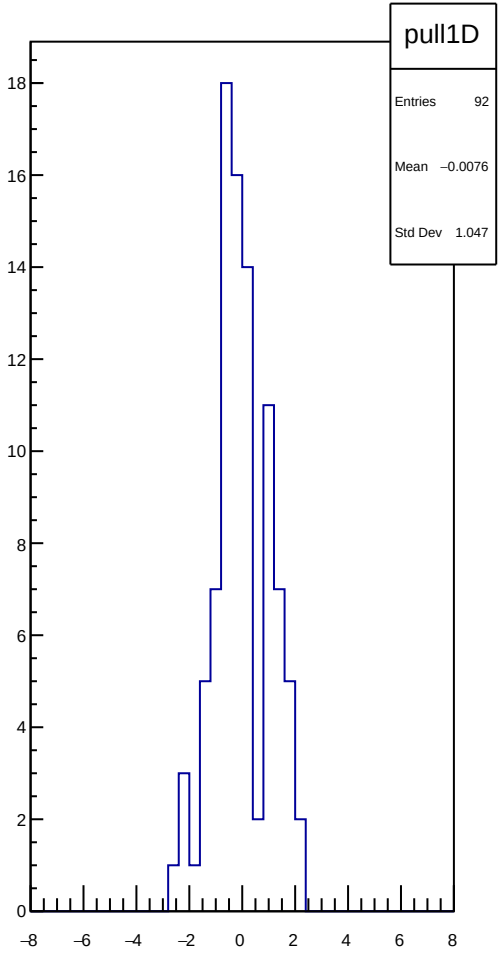

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 270 / 91
p0 1912 ± 1.46
1980
1960
1940
1920
1900
1880
1860
1840

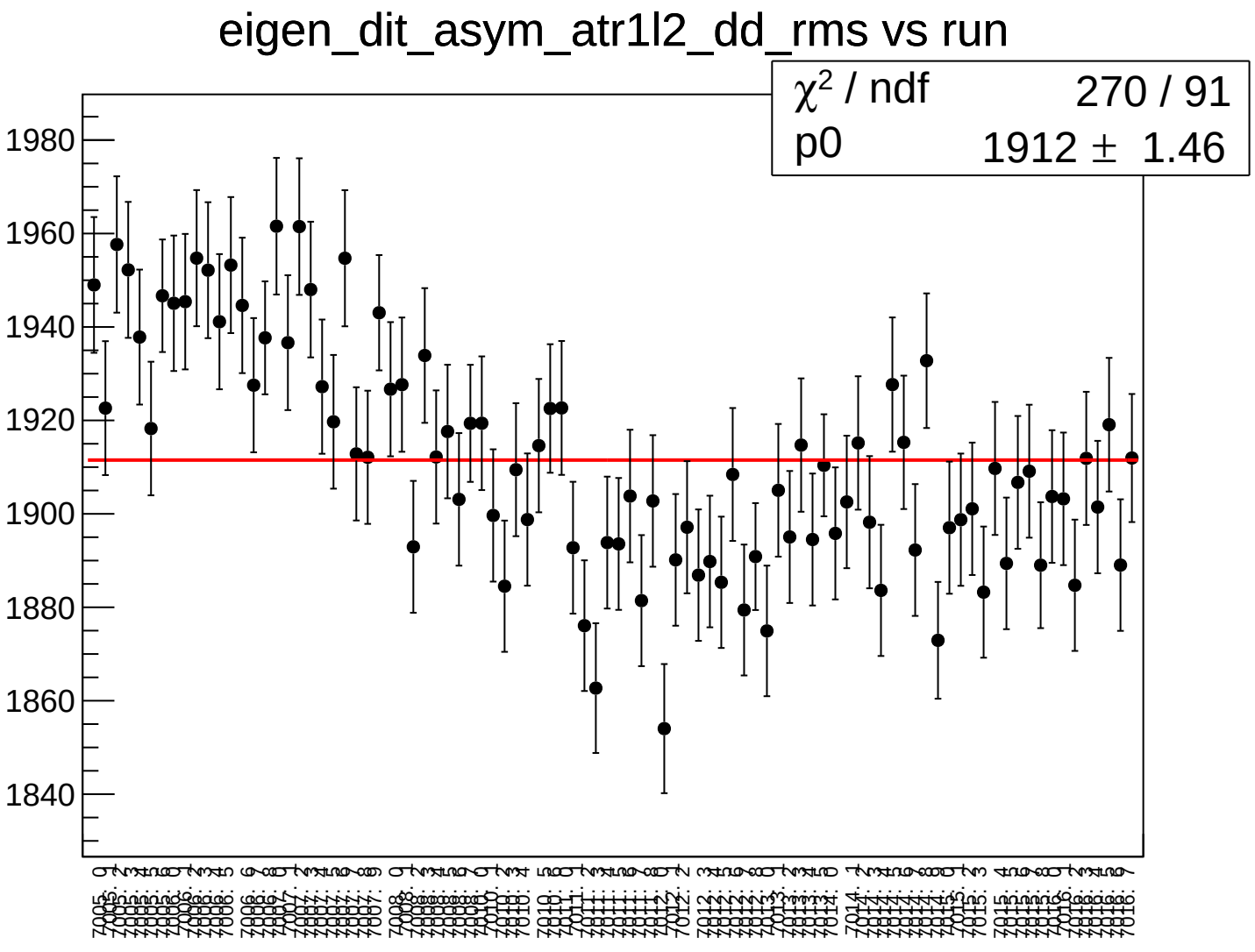

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.38 / 91
p0 1.396e+04 ± 5232
pull
Entries 92
Mean 1151
Std Dev 0

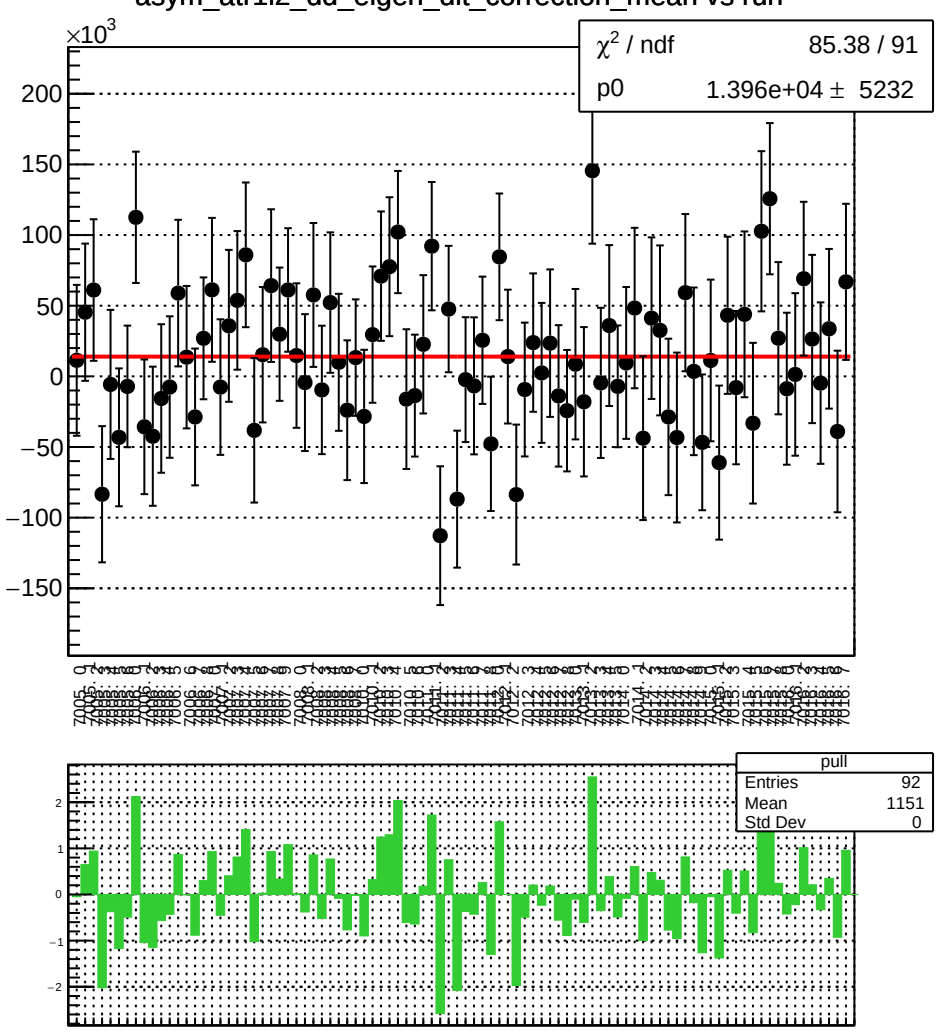

pull1D
Entries 92
Mean 0.000445
Std Dev 0.9634

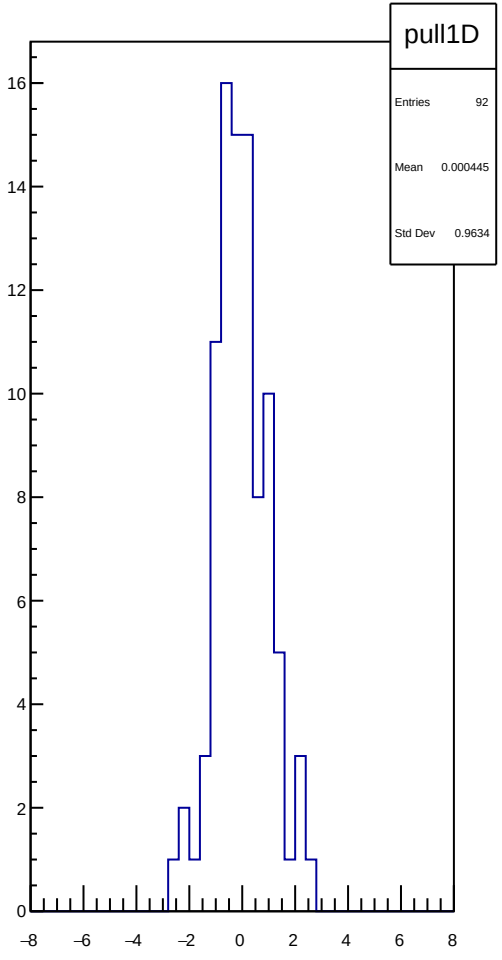

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.084e+04 / 91
p0 4830 ± 3.7
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

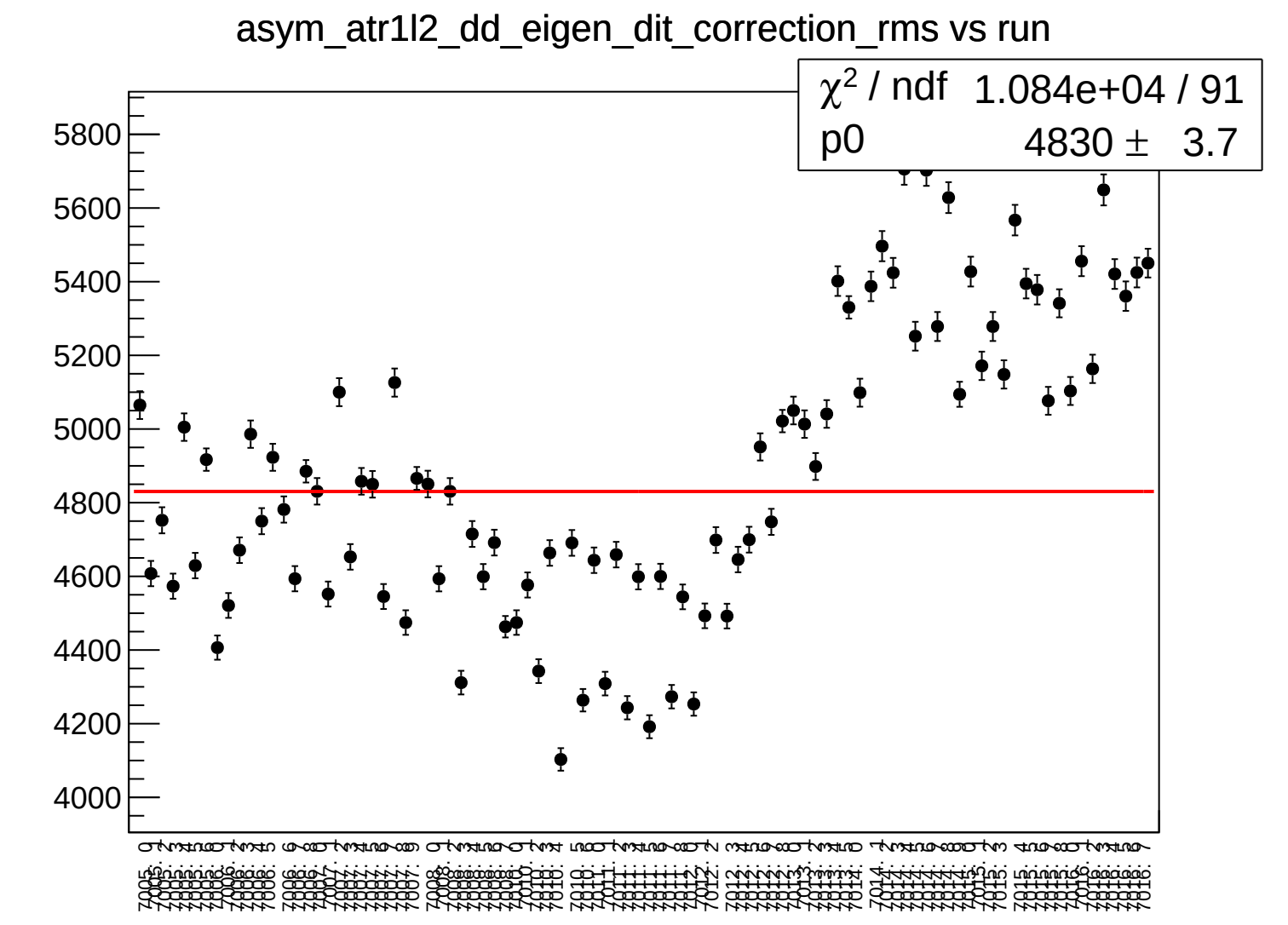

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 100.9 / 91
p0 2824 ± 2064
pull
Entries 92
Mean 208
Std Dev 0

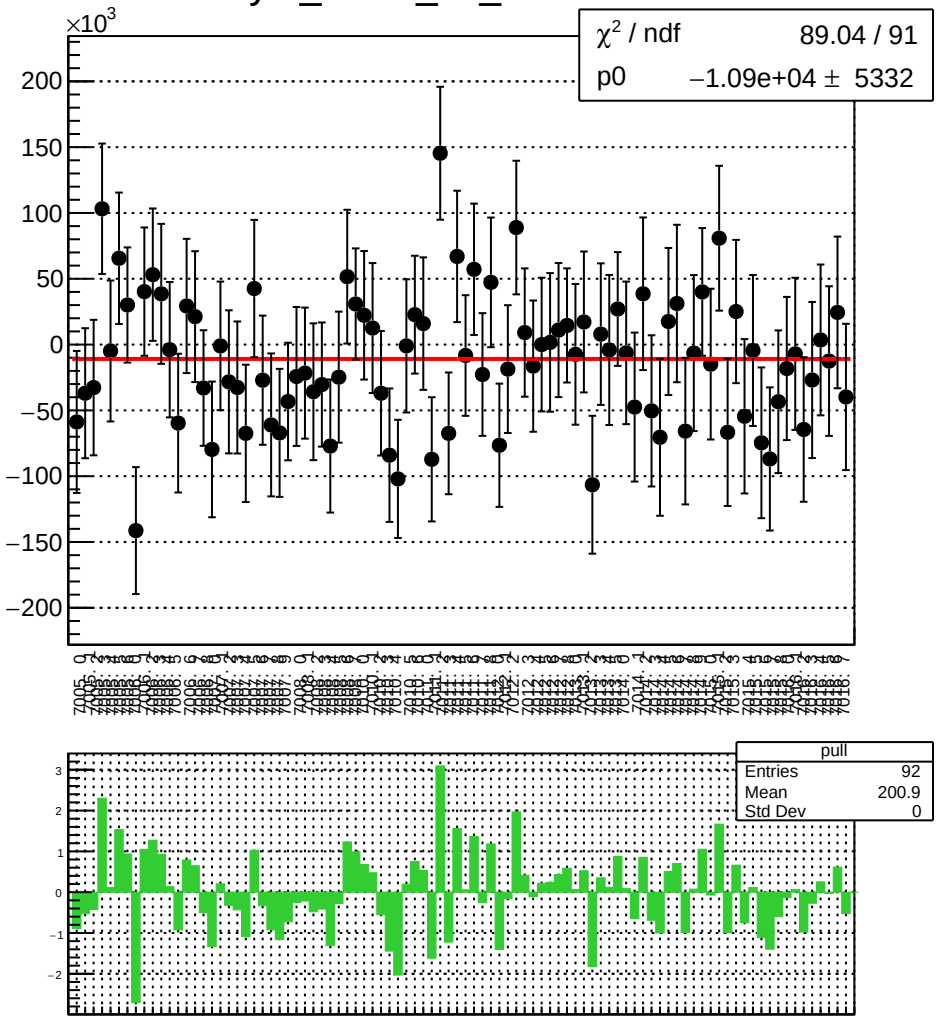

pull1D
Entries 92
Mean −0.0076
Std Dev 1.047

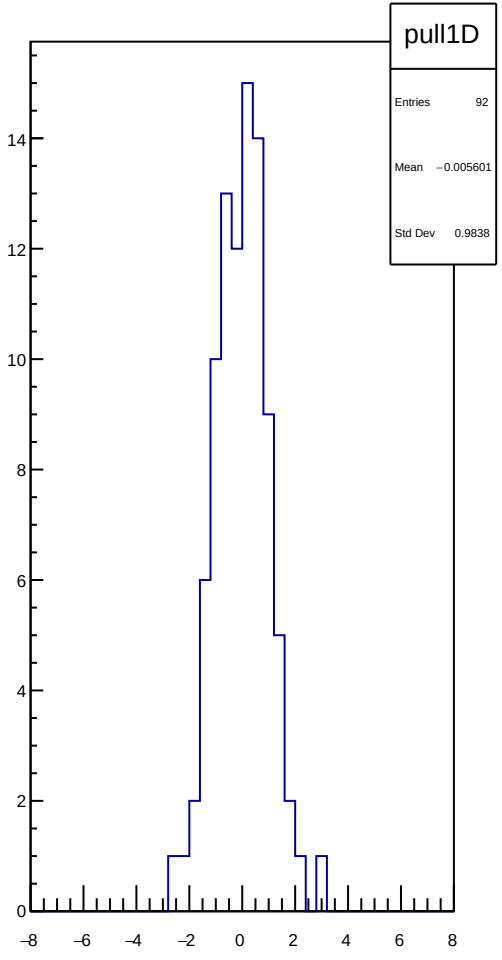

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 270 / 91
p0 1912 ± 1.46
1980
1960
1940
1920
1900
1880
1860
1840

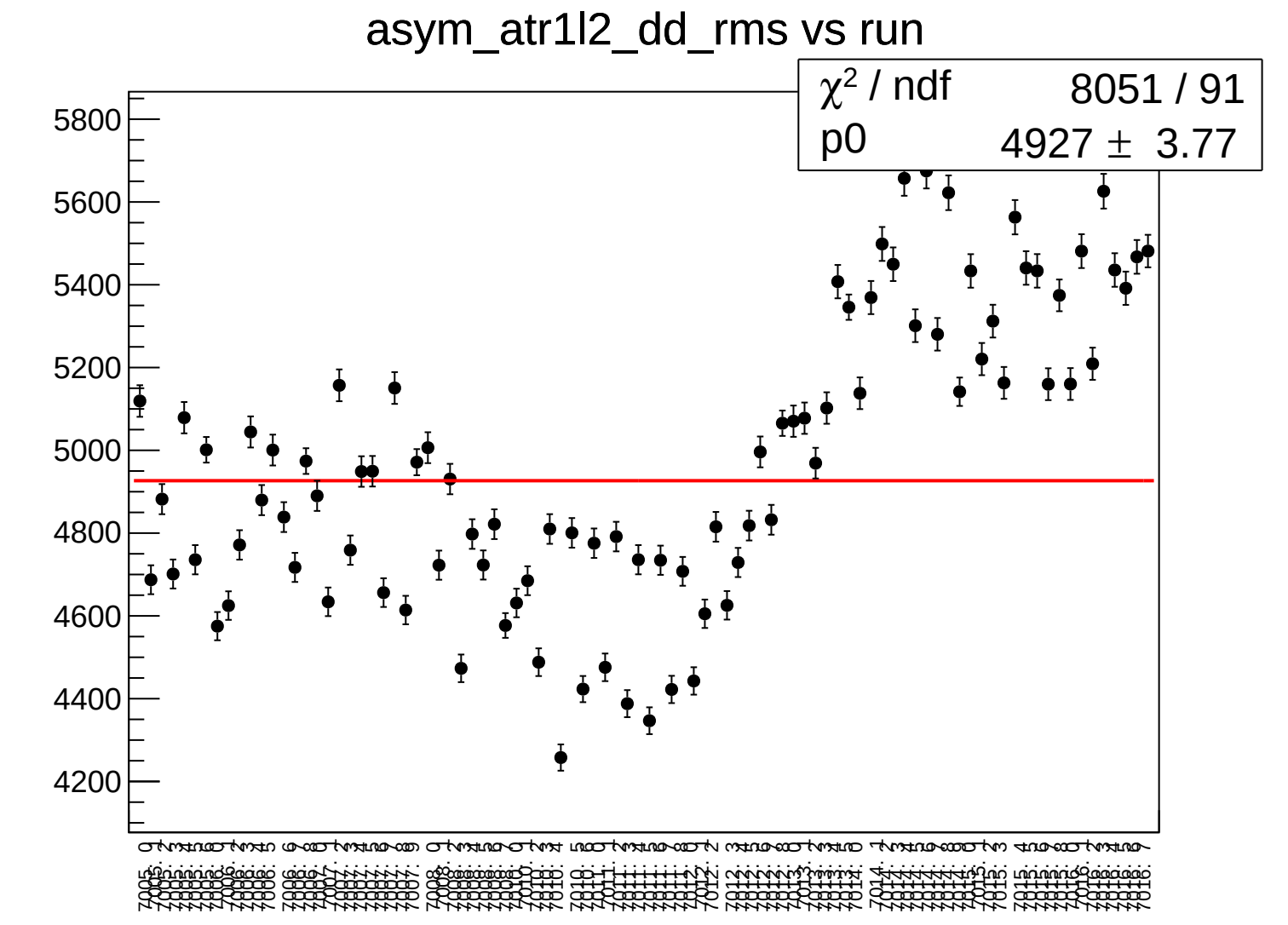

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.38 / 91
p0 1.396e+04 ± 5232
200
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 1151
Std Dev 0
2
1
0
−1
−2

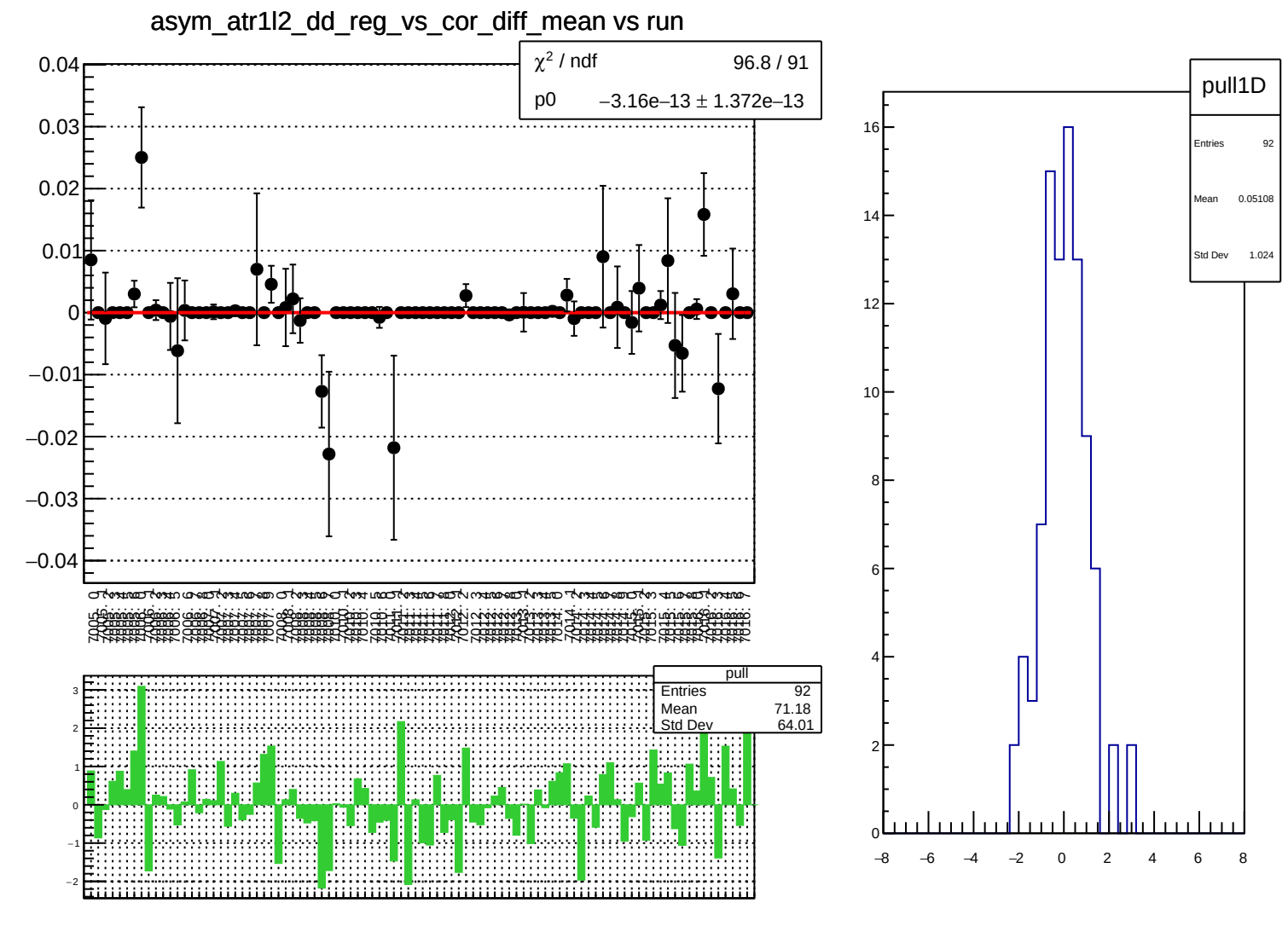

pull1D
Entries 92
Mean 0.000445
Std Dev 0.9634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

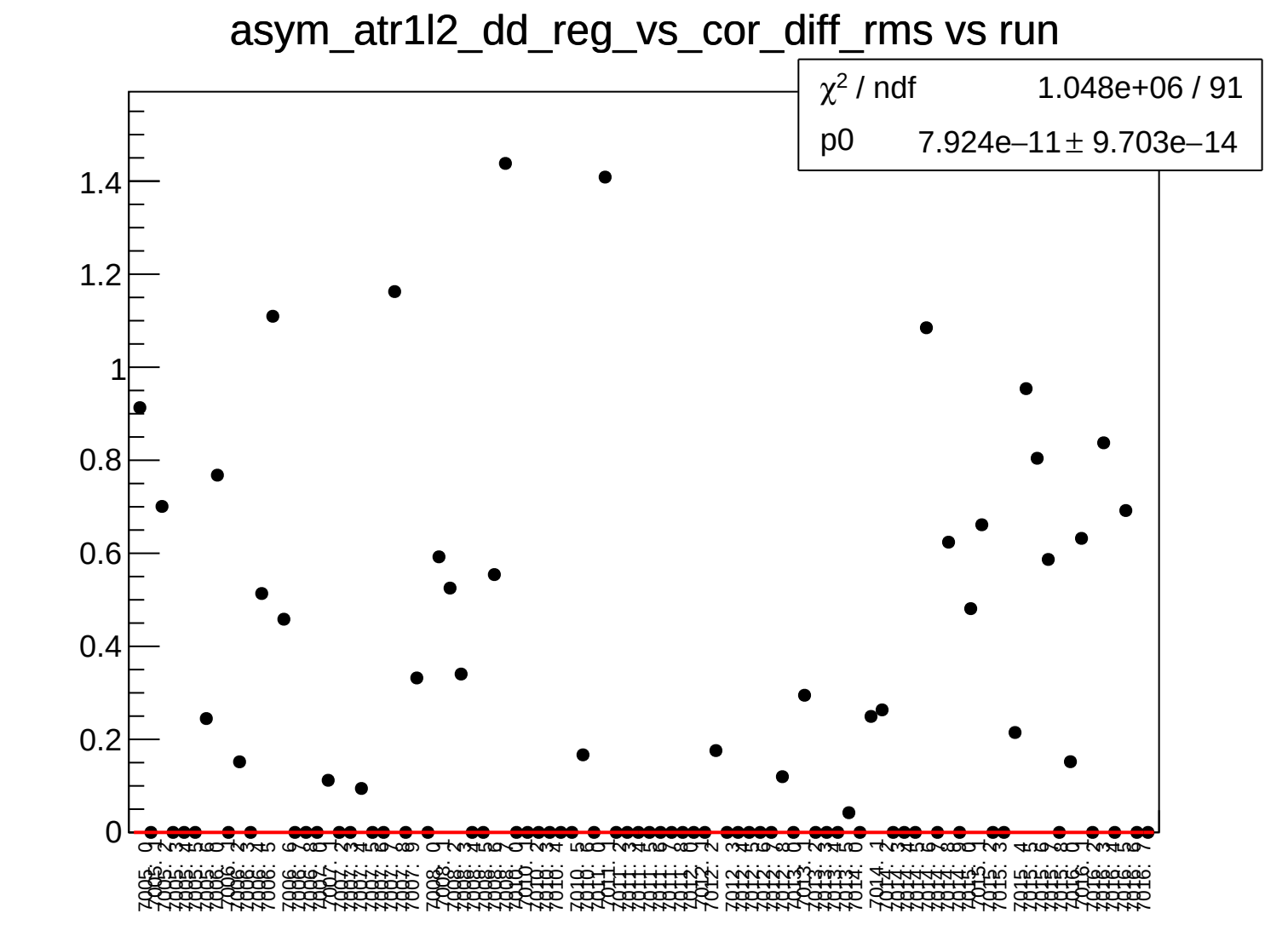

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.084e+04 / 91
p0 4830 ± 3.7
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

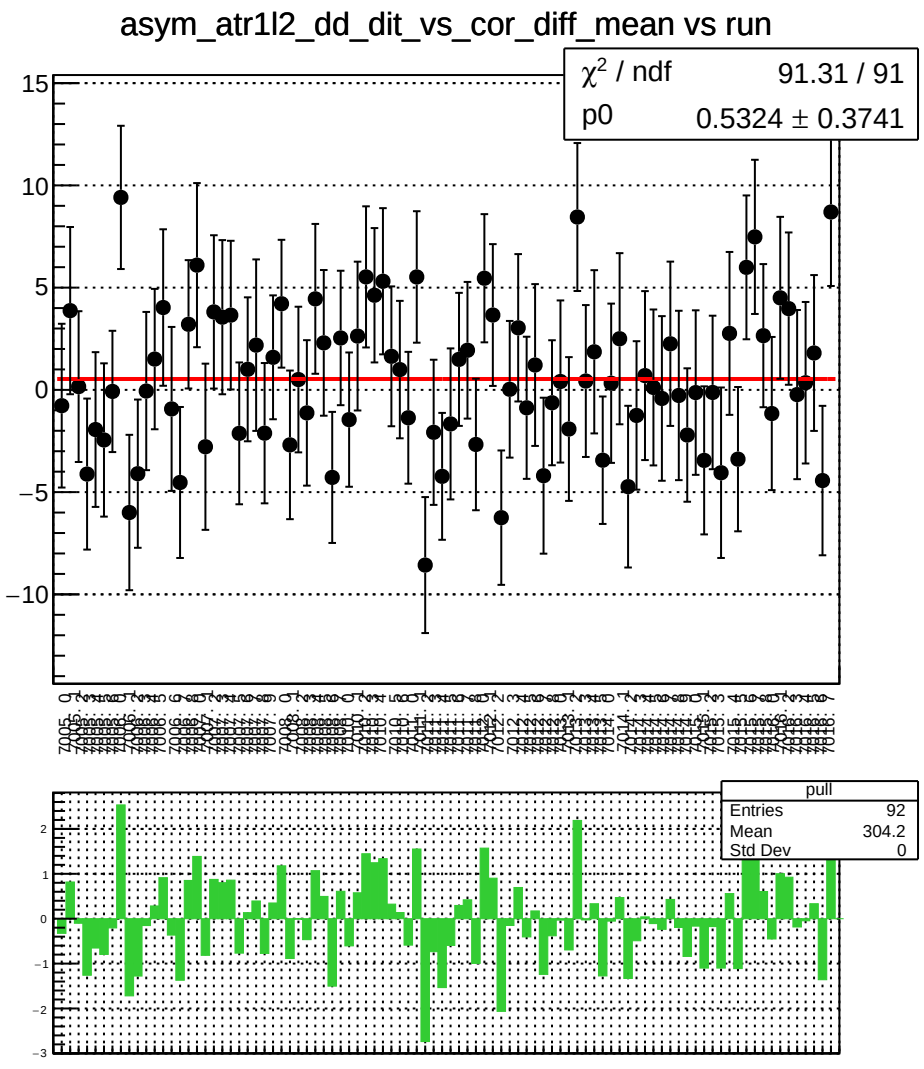

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 89.04 / 91
p0 −1.09e+04 ± 5332
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 200.9
Std Dev 0
3
2
1
0
−1
−2

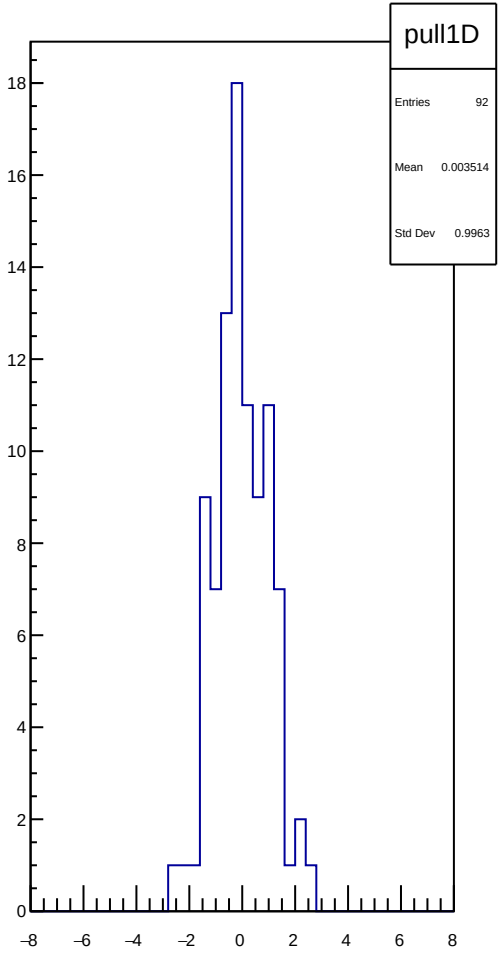

pull1D
Entries 92
Mean −0.005601
Std Dev 0.9838
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

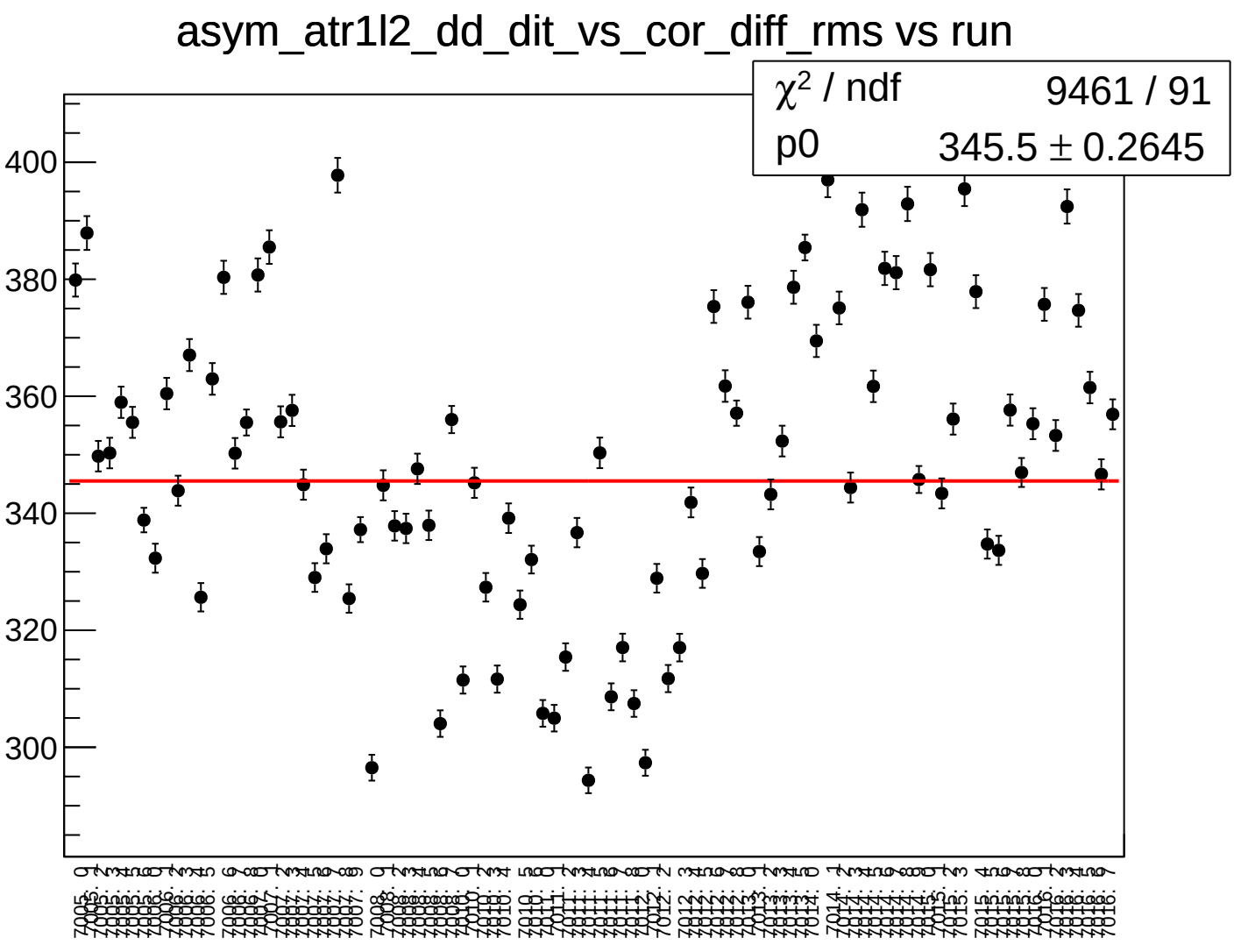

asym_atr1l2_dd_rms vs run
χ² / ndf 8051 / 91
p0 4927 ± 3.77
5800
5600
5400
5200
5000
4800
4600
4400
4200

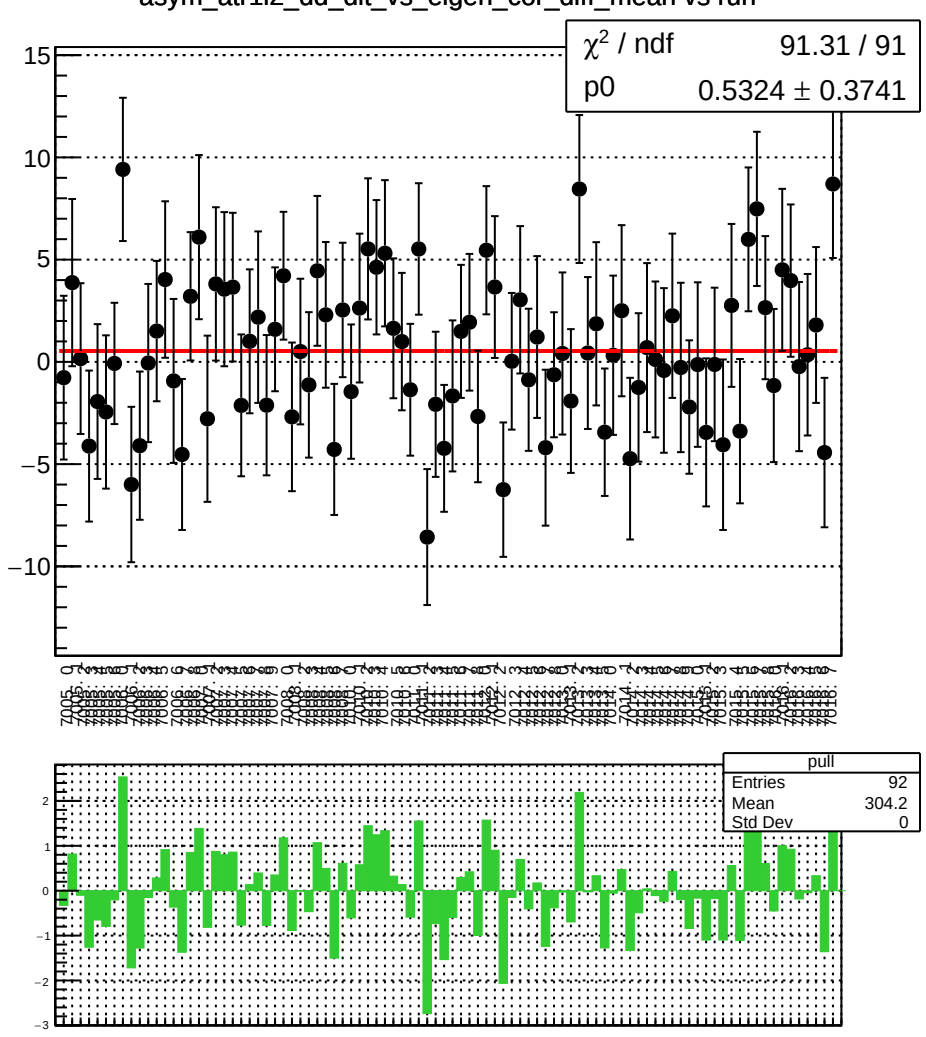

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.8 / 91
p0 −3.16e−13 ± 1.372e−13
pull
Entries 92
Mean 71.18
Std Dev 64.01
pull1D
Entries 92
Mean 0.05108
Std Dev 1.024

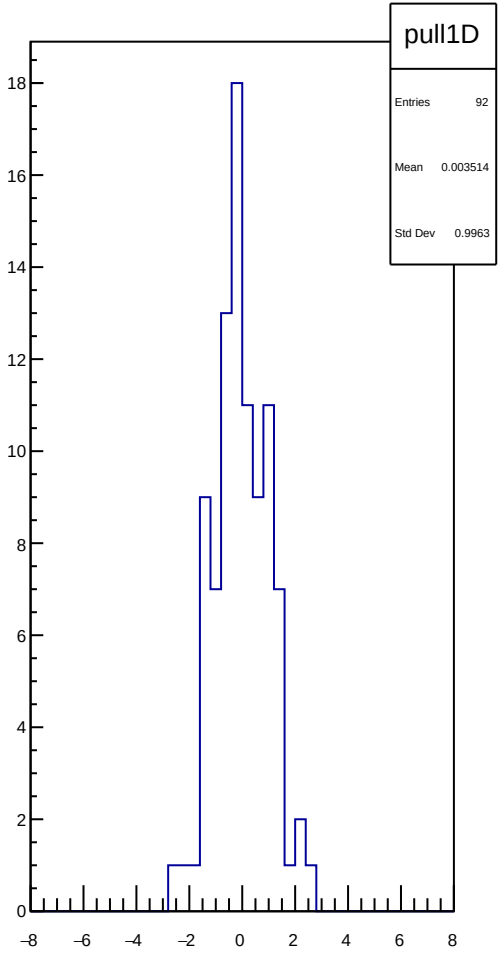

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 91
p0 7.924e−11 ± 9.703e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

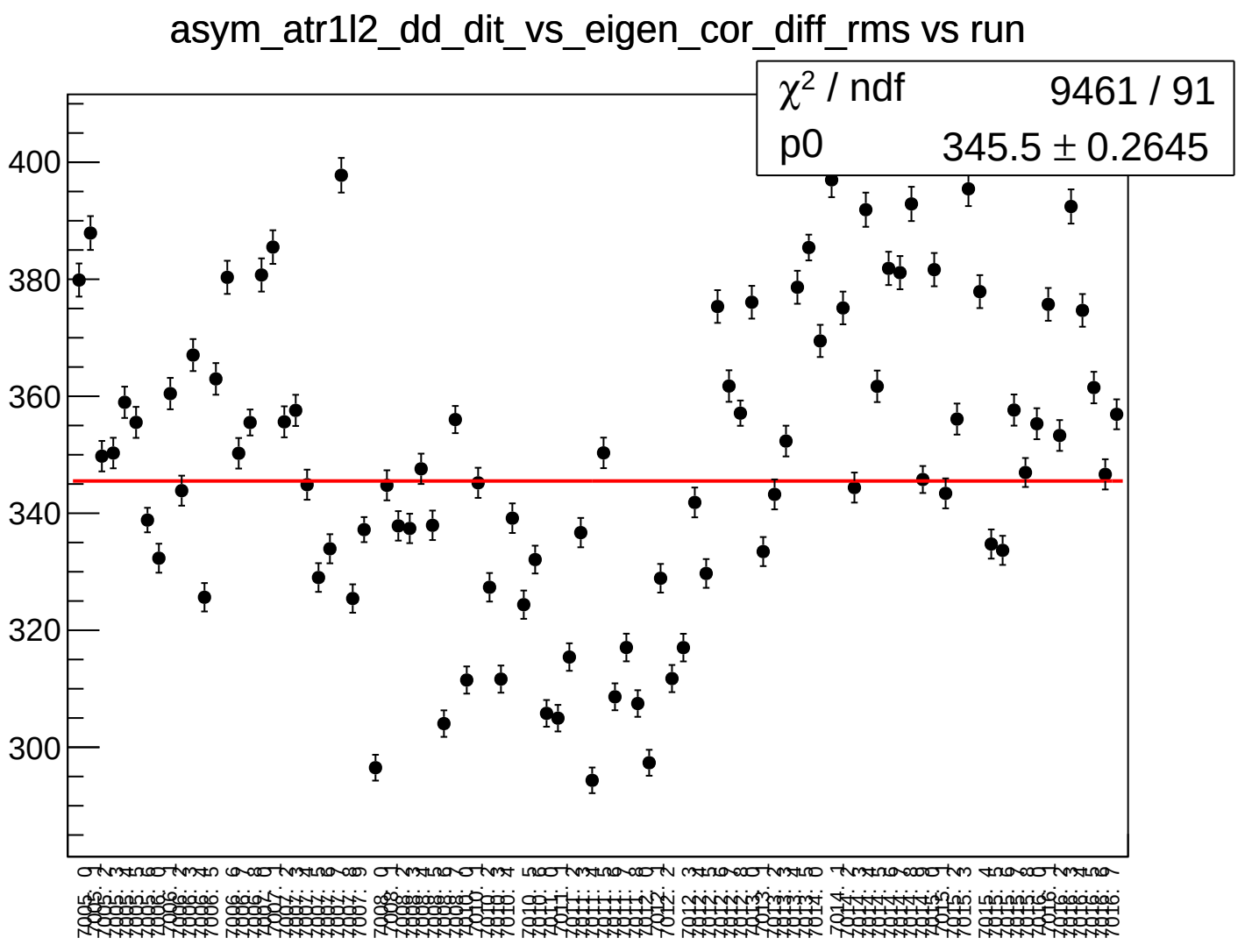

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.31 / 91
p0 0.5324 ± 0.3741
pull
Entries 92
Mean 304.2
Std Dev 0

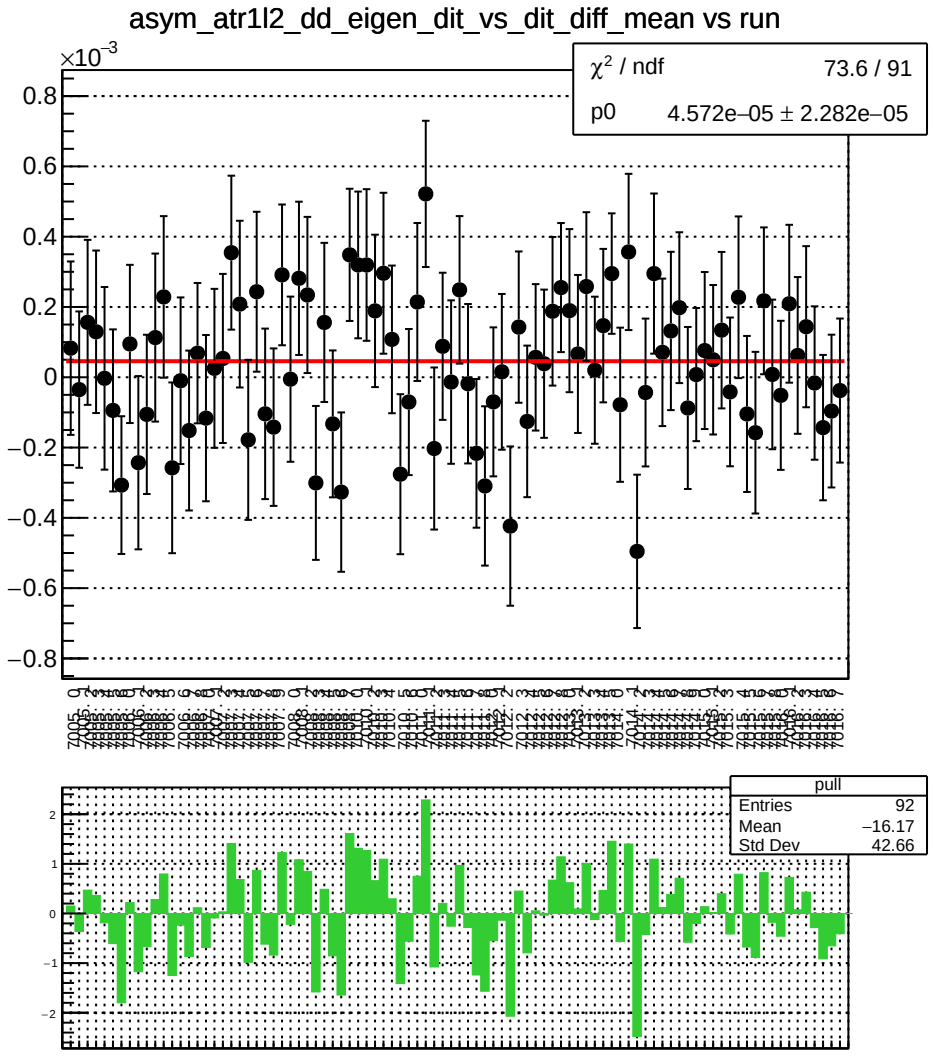

pull1D
Entries 92
Mean 0.003514
Std Dev 0.9963

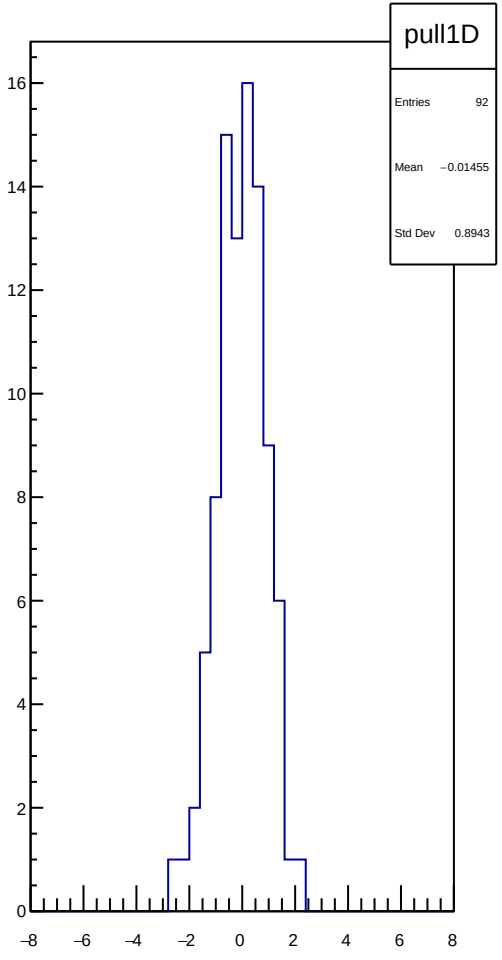

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9461 / 91
p0 345.5 ± 0.2645
400
380
360
340
320
300

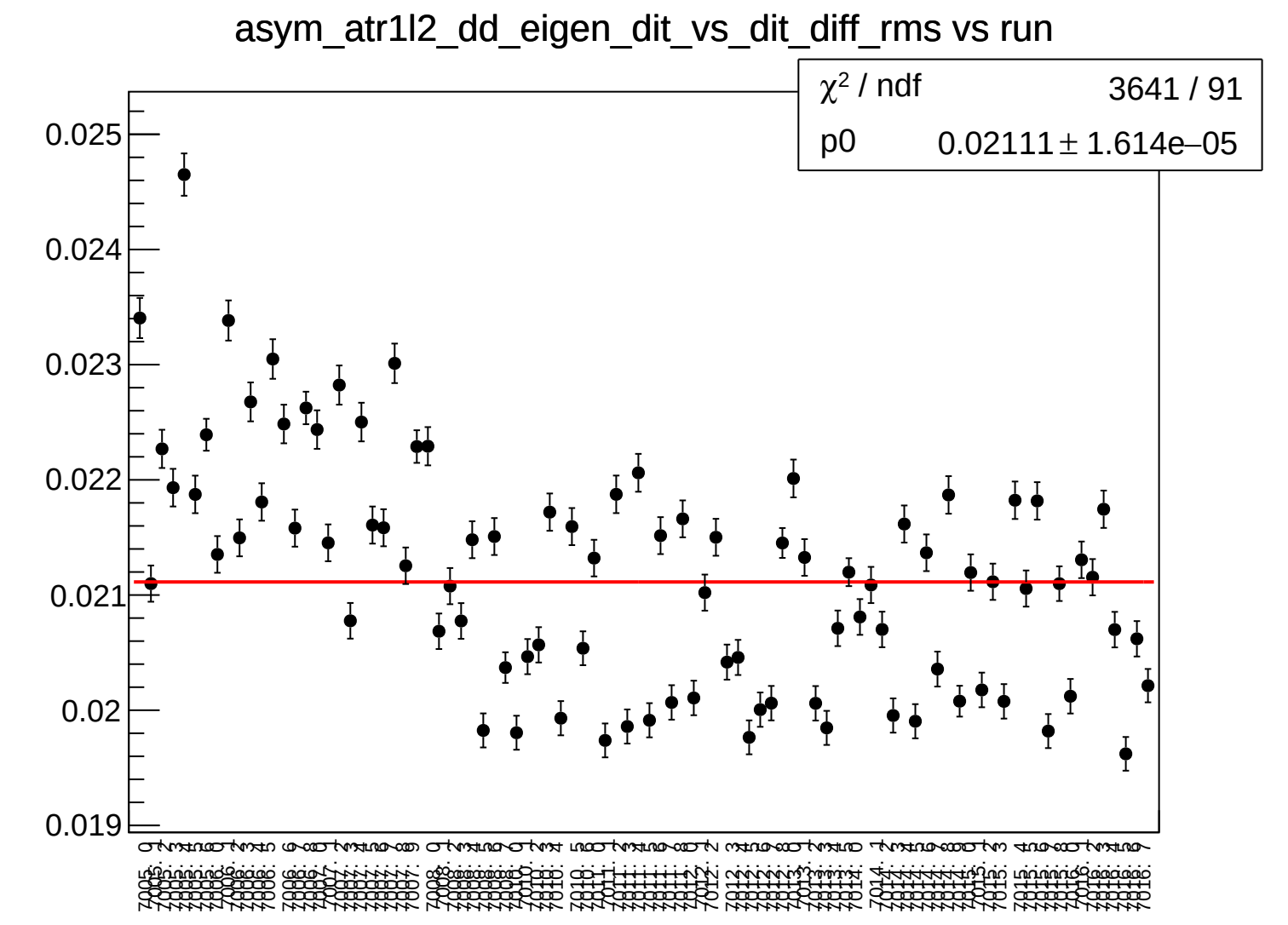

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.31 / 91
p0 0.5324 ± 0.3741
pull
Entries 92
Mean 304.2
Std Dev 0

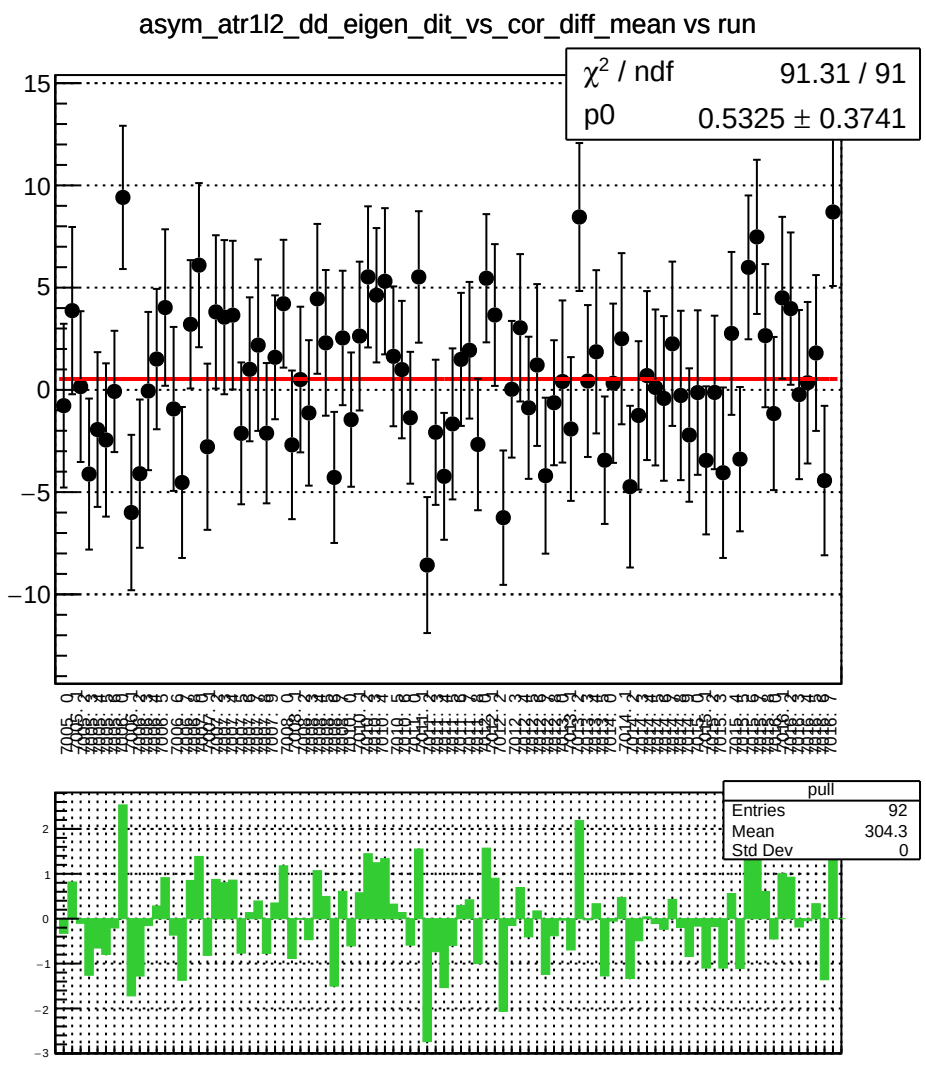

pull1D
Entries 92
Mean 0.003514
Std Dev 0.9963

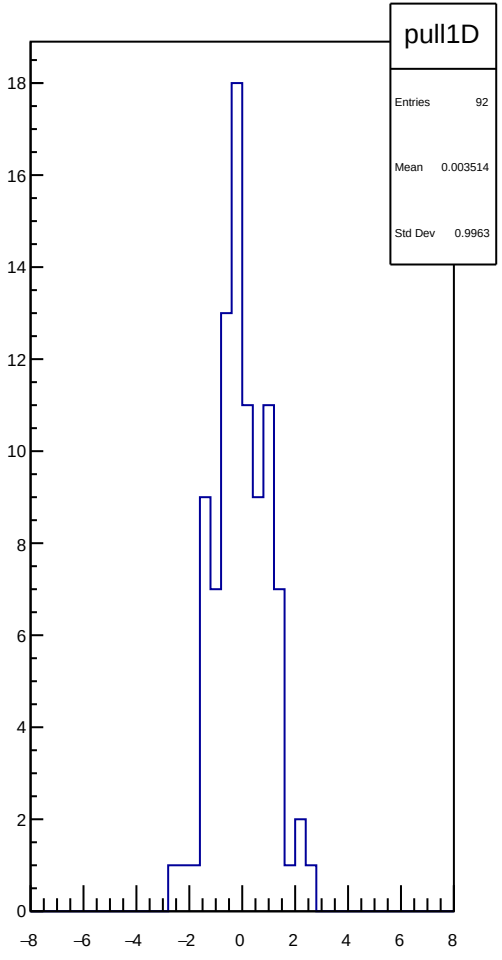

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9461 / 91
p0 345.5 ± 0.2645
400
380
360
340
320
300

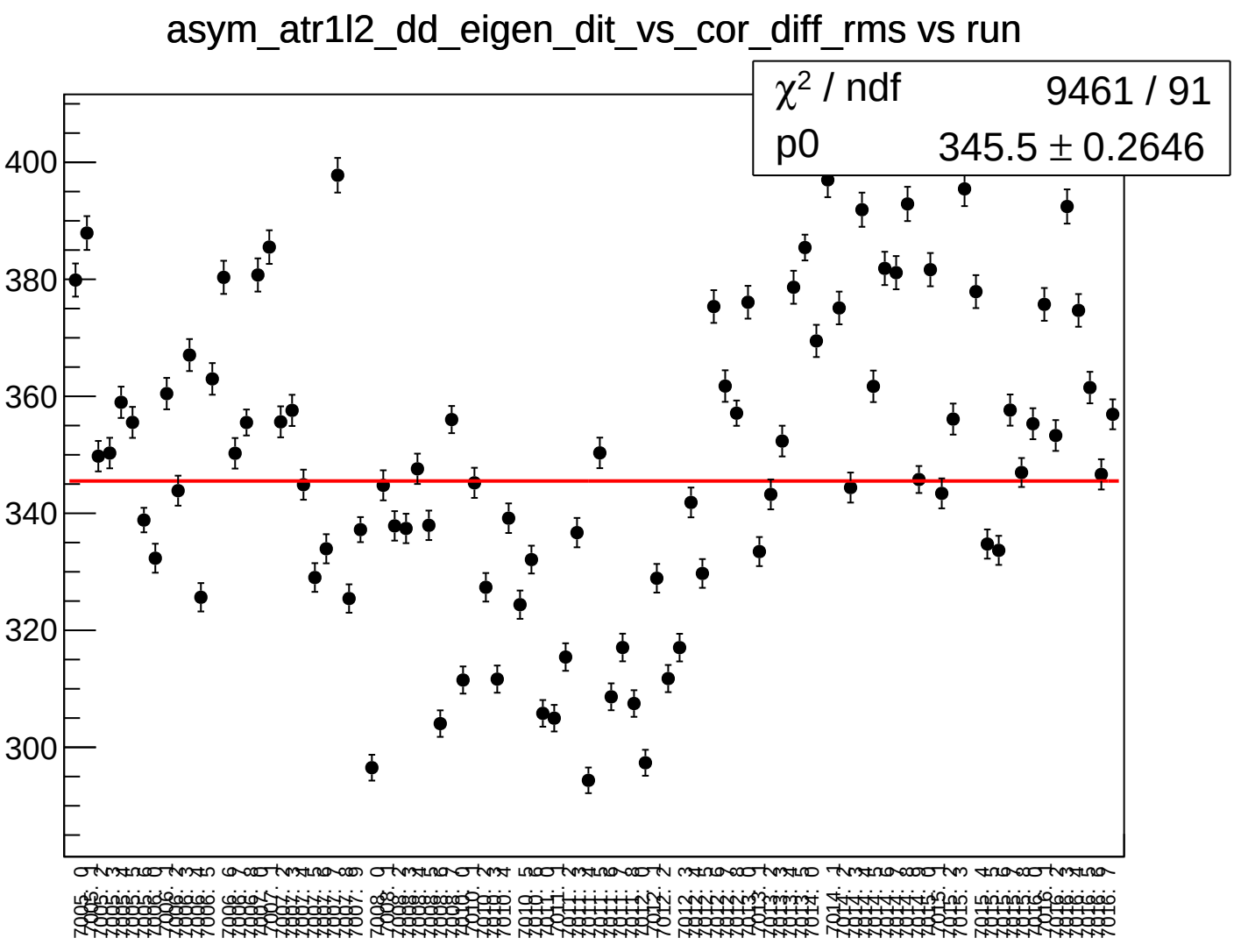

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.6 / 91
p0 4.572e−05 ± 2.282e−05
pull
Entries 92
Mean −16.17
Std Dev 42.66

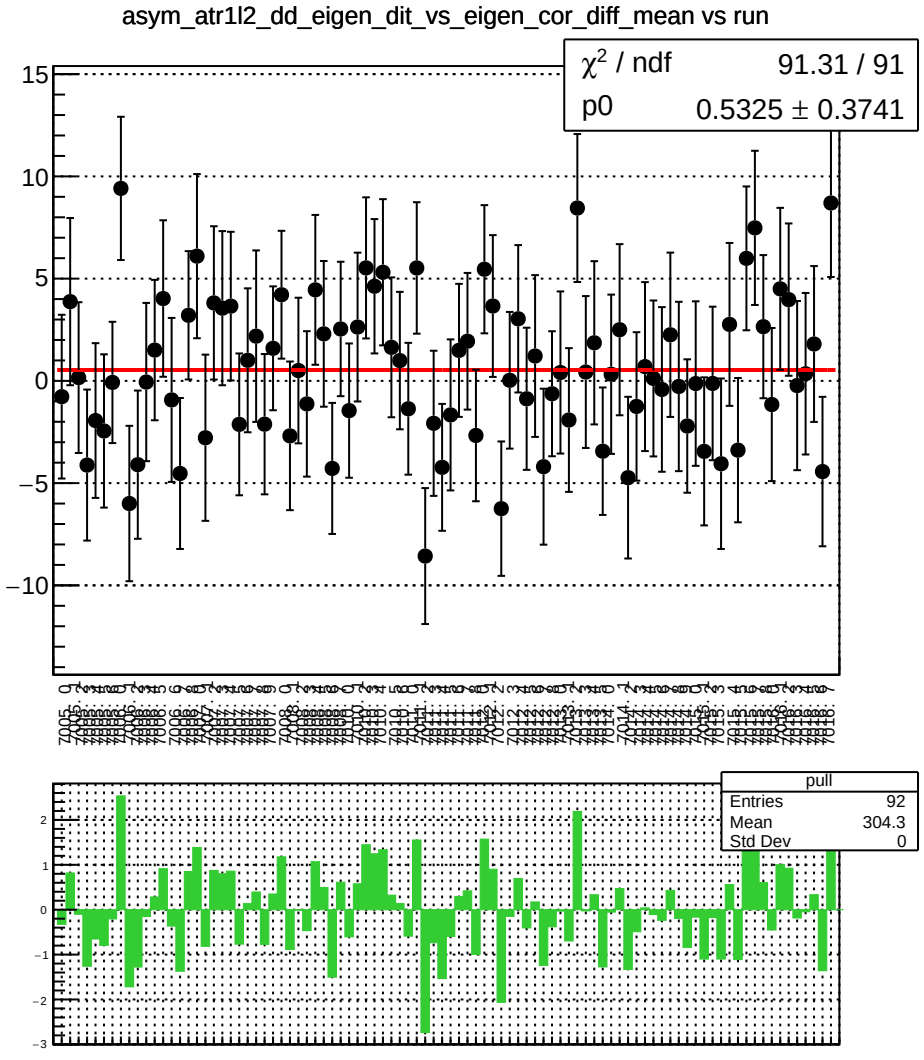

pull1D
Entries 92
Mean −0.01455
Std Dev 0.8943

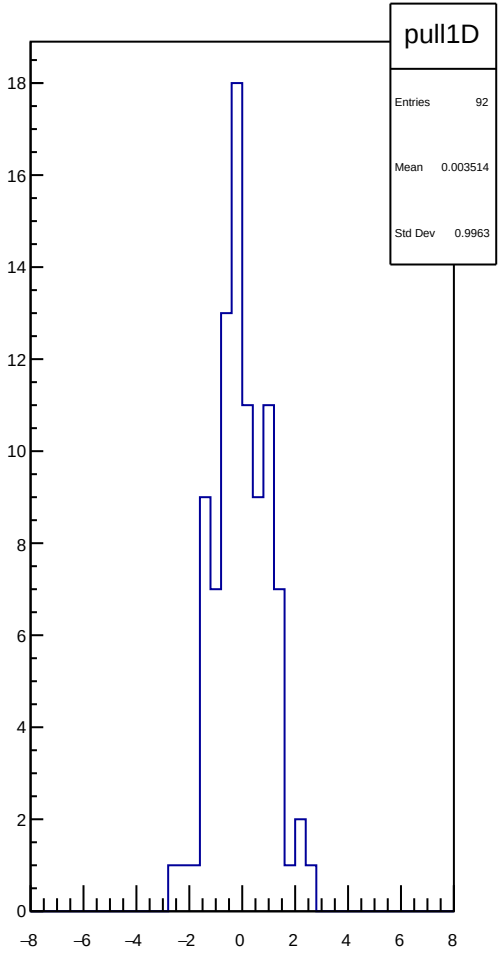

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3641 / 91
p0 0.02111 ± 1.614e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019

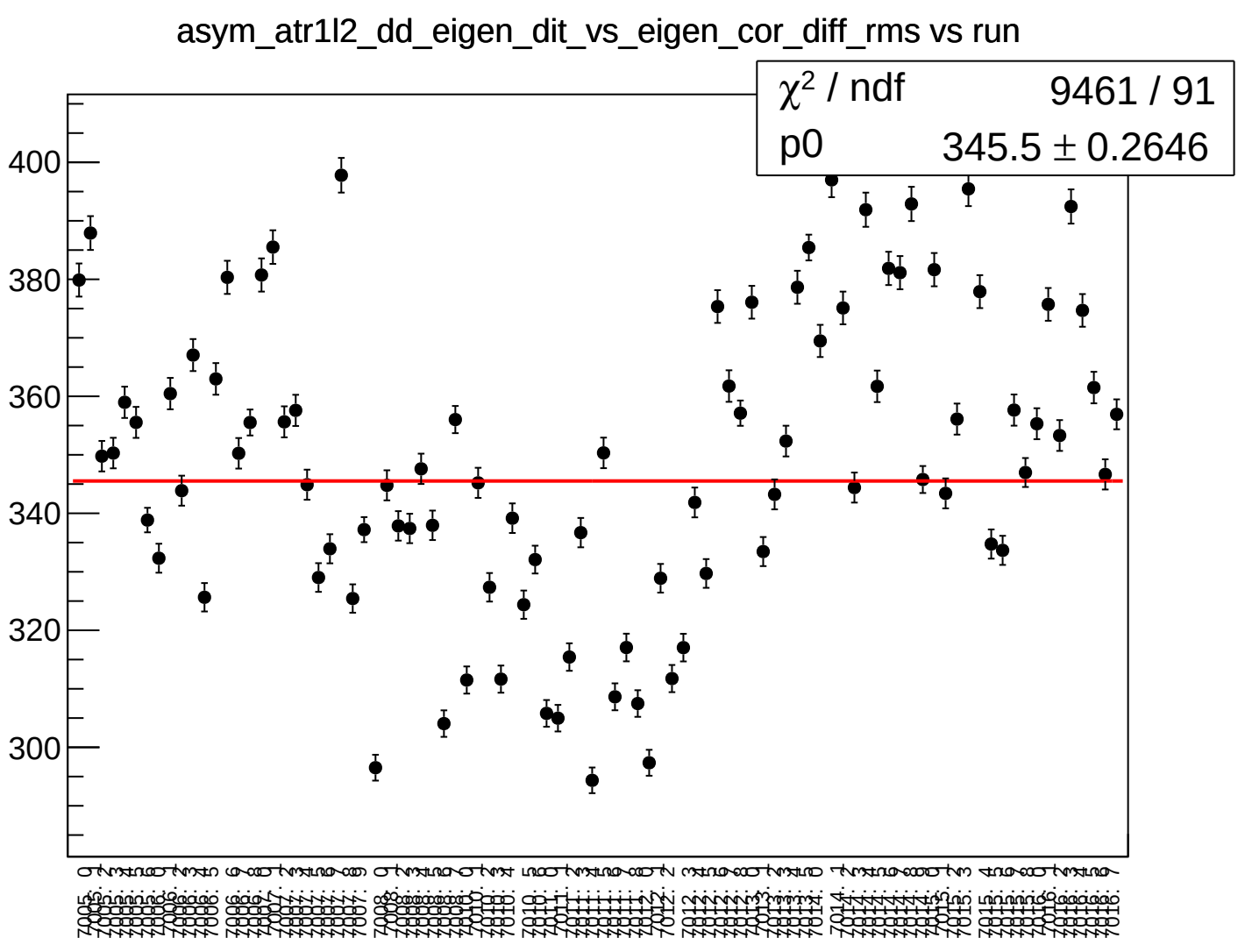

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.31 / 91
p0 0.5325 ± 0.3741
pull
Entries 92
Mean 304.3
Std Dev 0

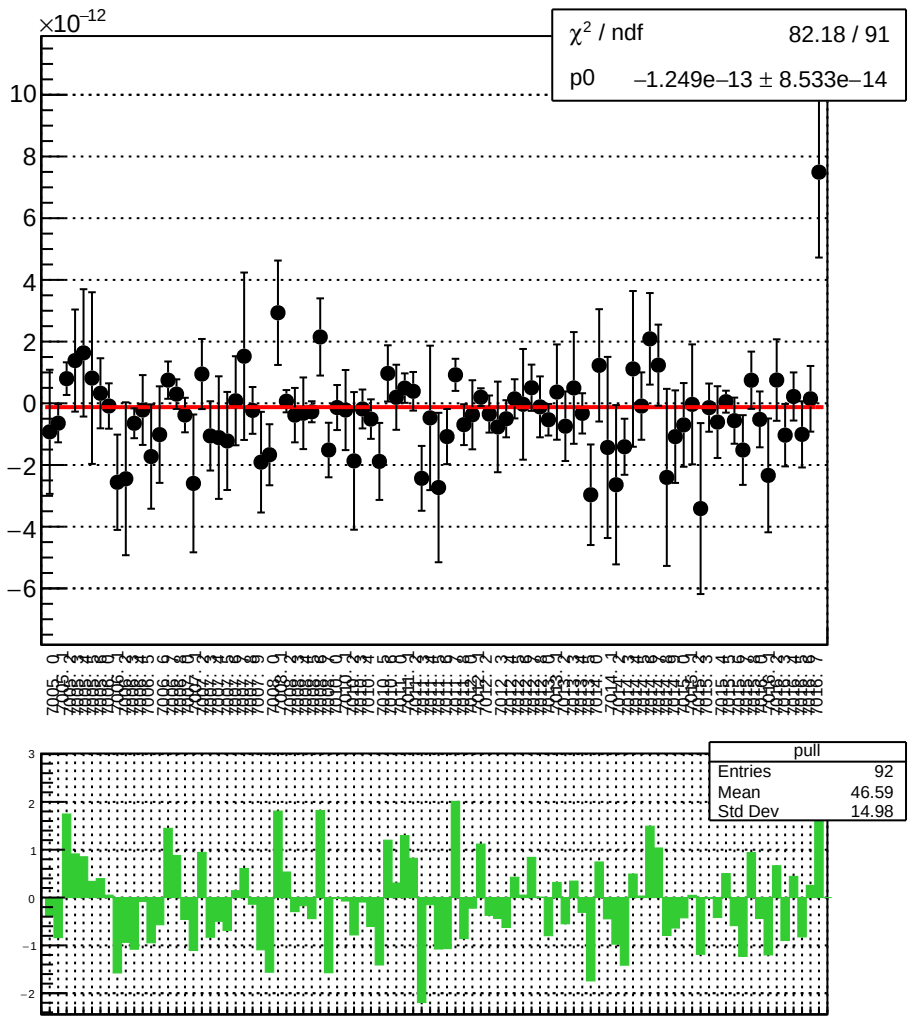

pull1D
Entries 92
Mean 0.003514
Std Dev 0.9963

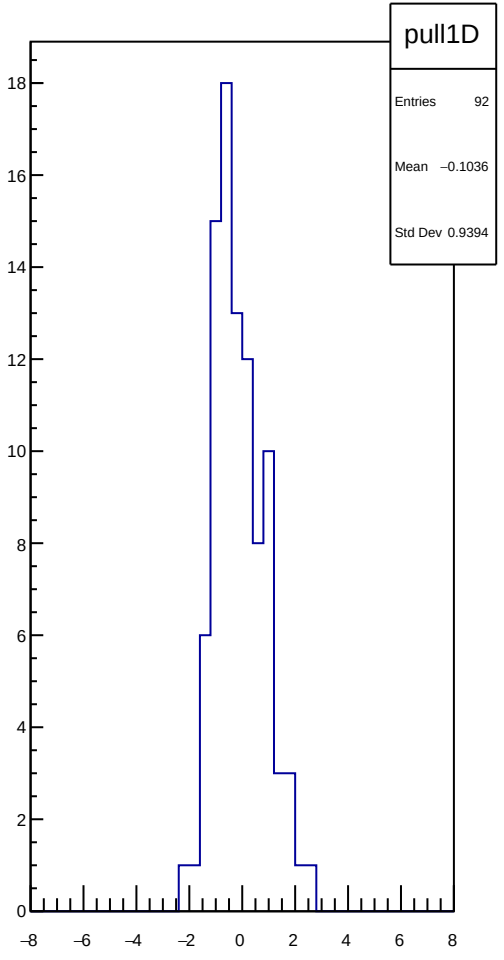

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9461 / 91
p0 345.5 ± 0.2646
400
380
360
340
320
300

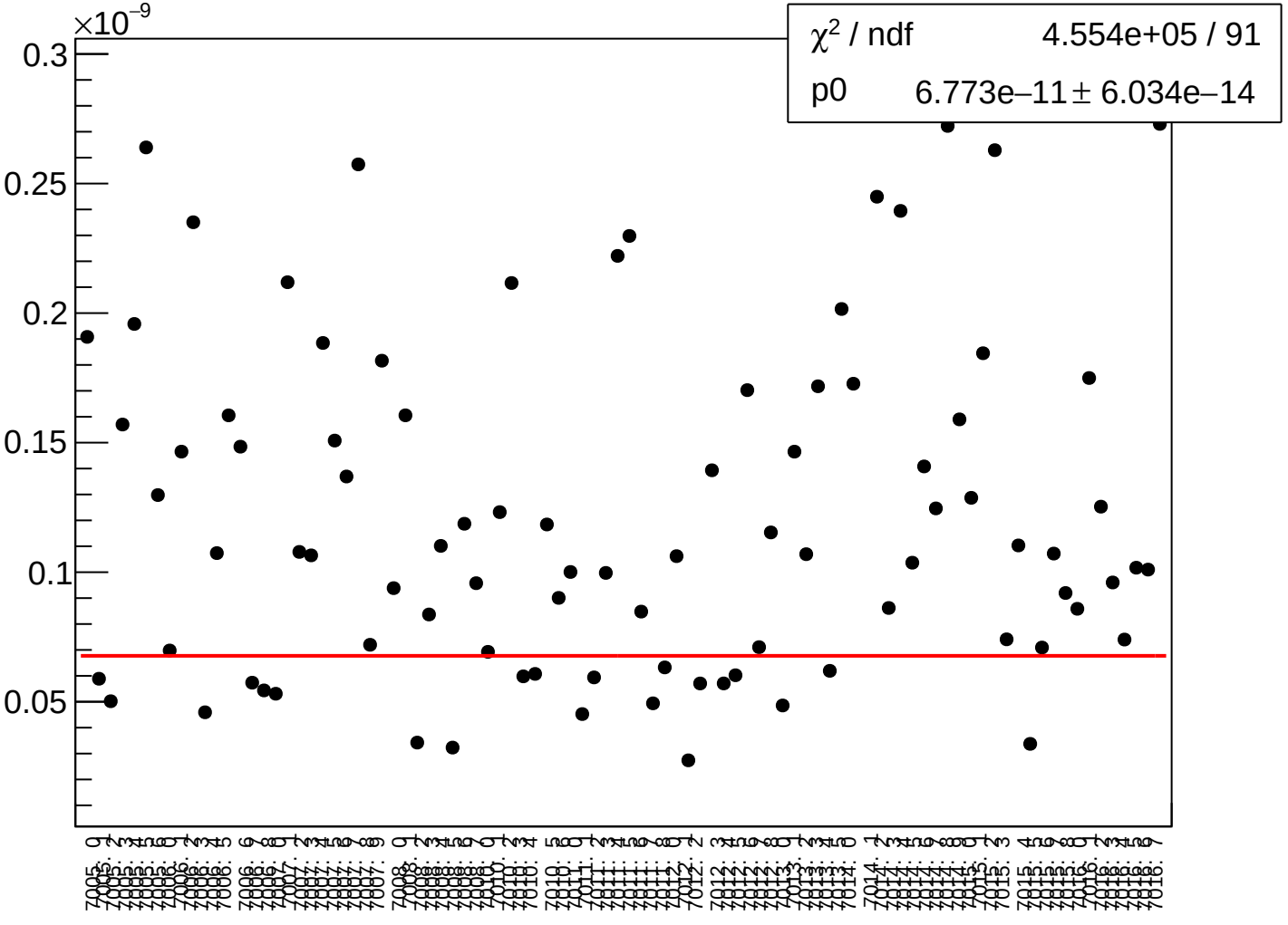

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.31 / 91
p0 0.5325 ± 0.3741
pull
Entries 92
Mean 304.3
Std Dev 0

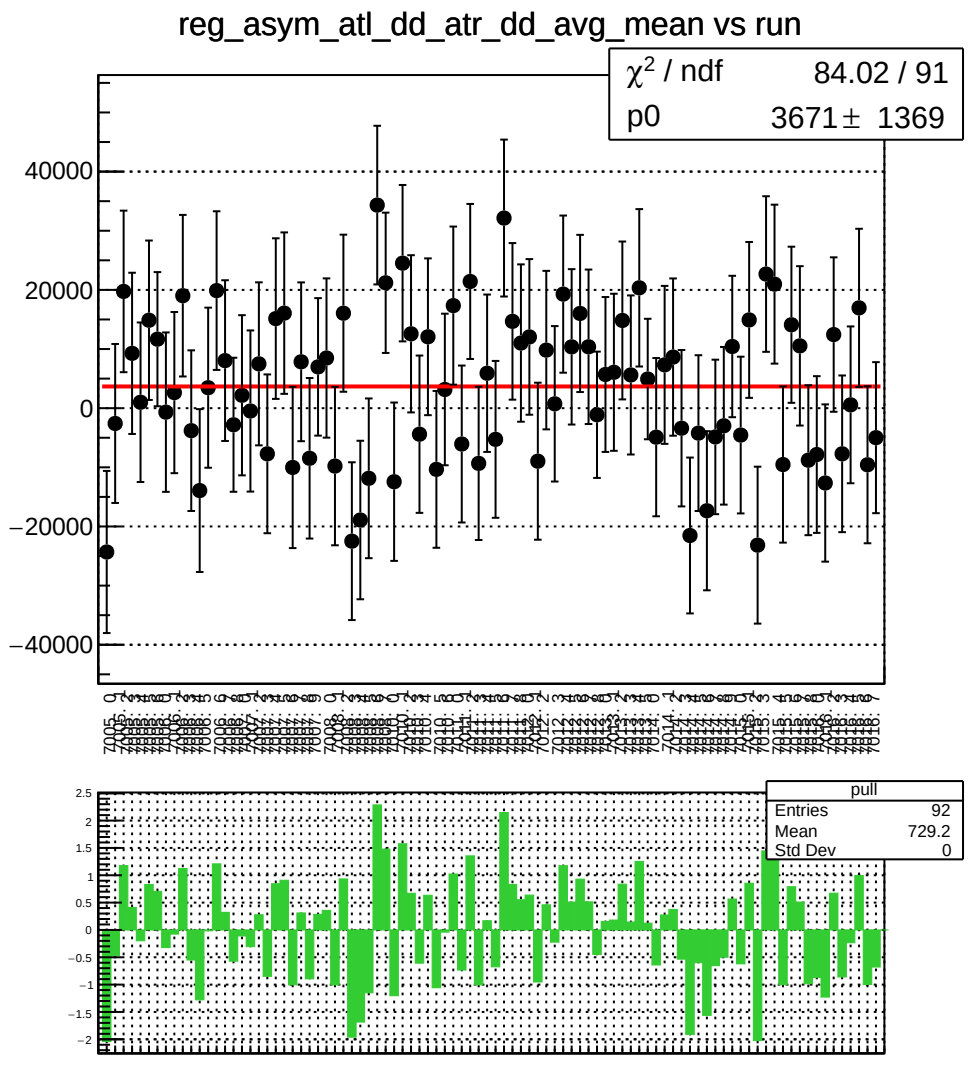

pull1D
Entries 92
Mean 0.003514
Std Dev 0.9963

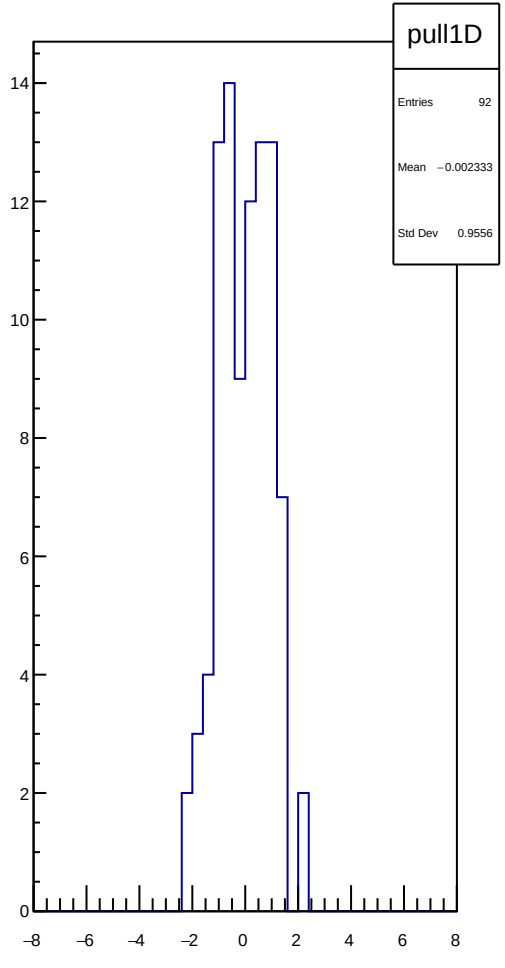

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9461 / 91
p0 345.5 ± 0.2646
400
380
360
340
320
300

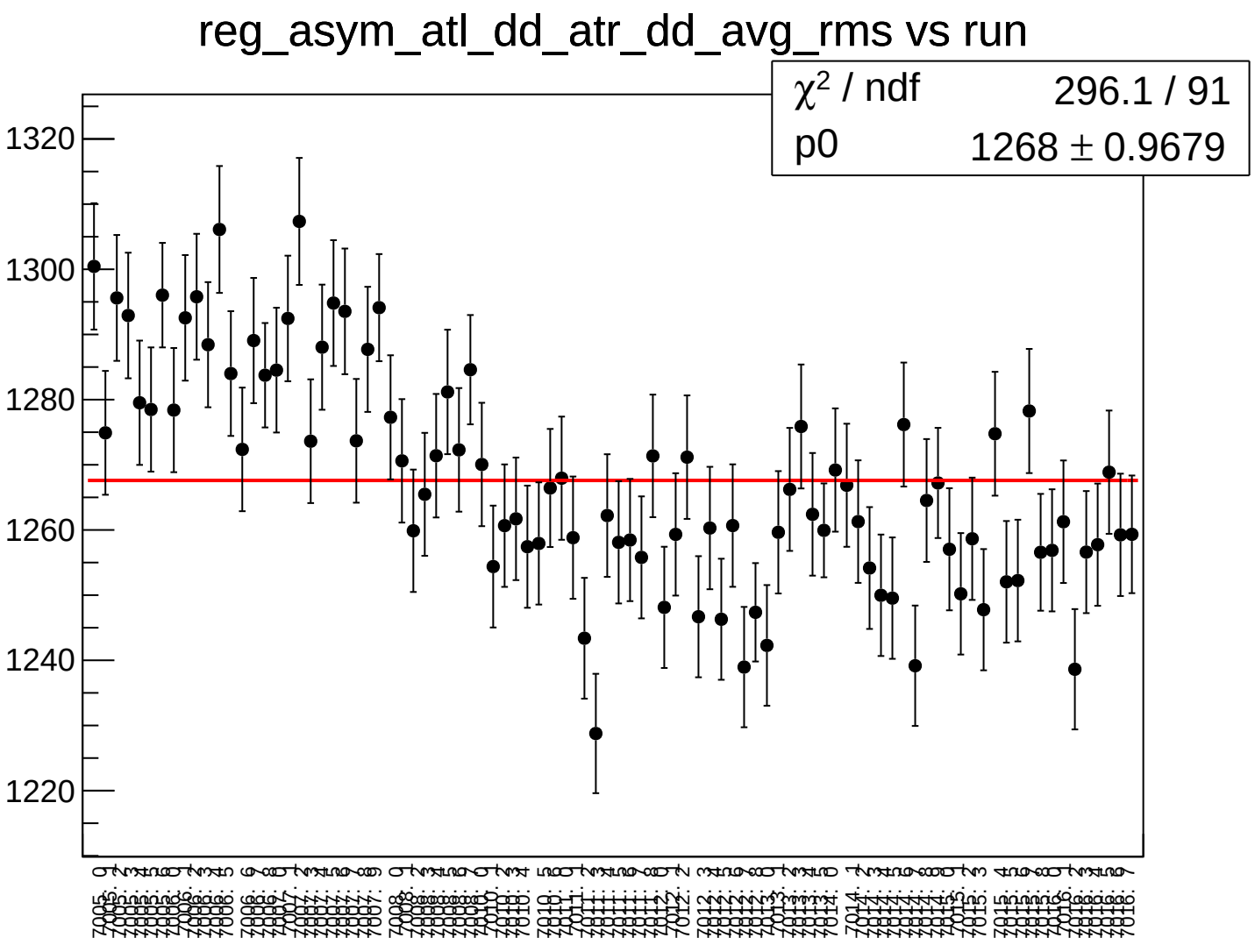

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.18 / 91
p0 −1.249e−13 ± 8.533e−14
pull
Entries 92
Mean 46.59
Std Dev 14.98

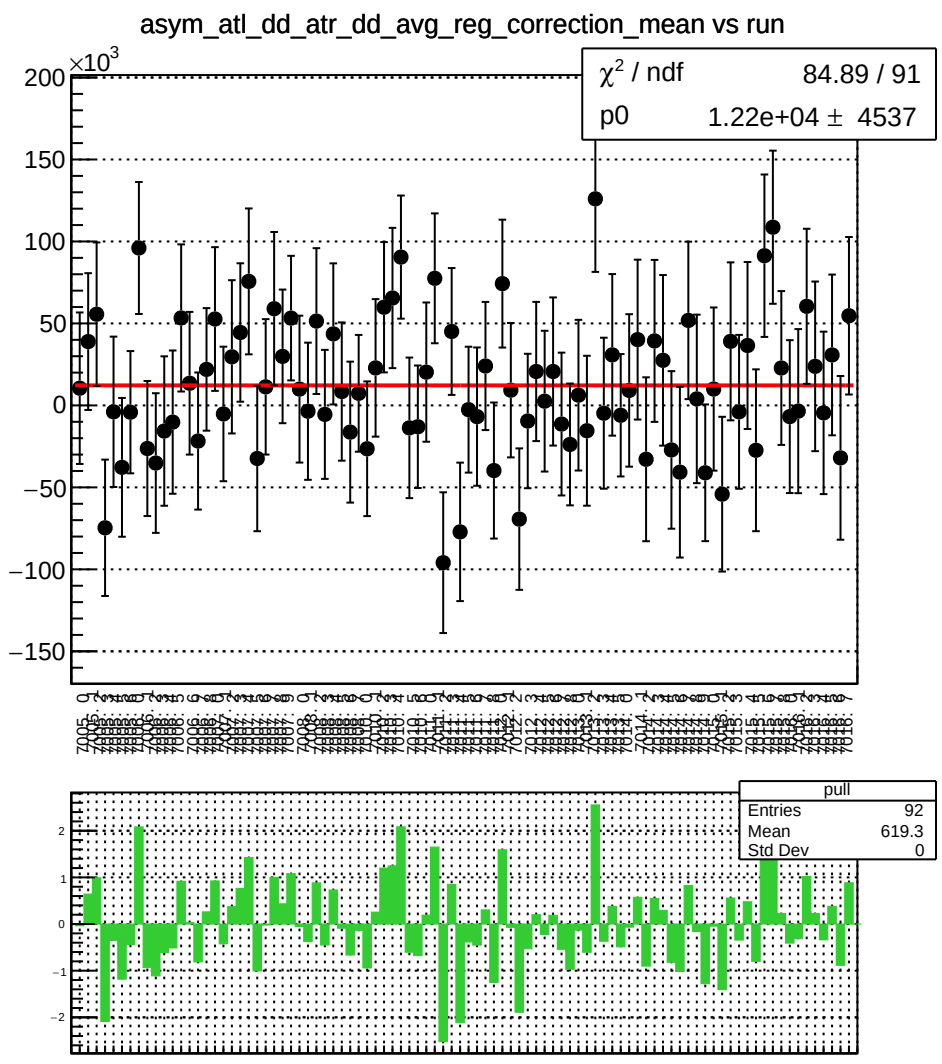

pull1D
Entries 92
Mean −0.1036
Std Dev 0.9394

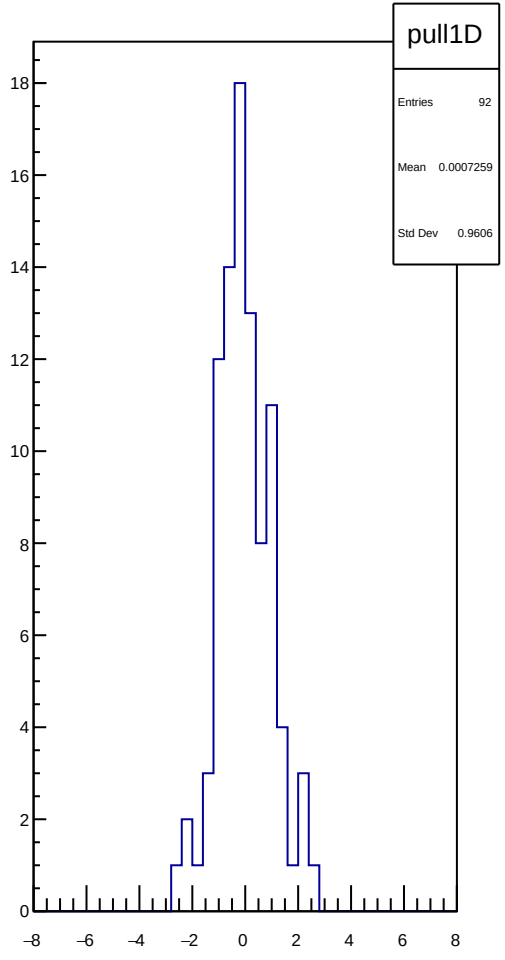

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.554e+05 / 91
p0 6.773e−11 ± 6.034e−14
0.3
0.25
0.2
0.15
0.1
0.05

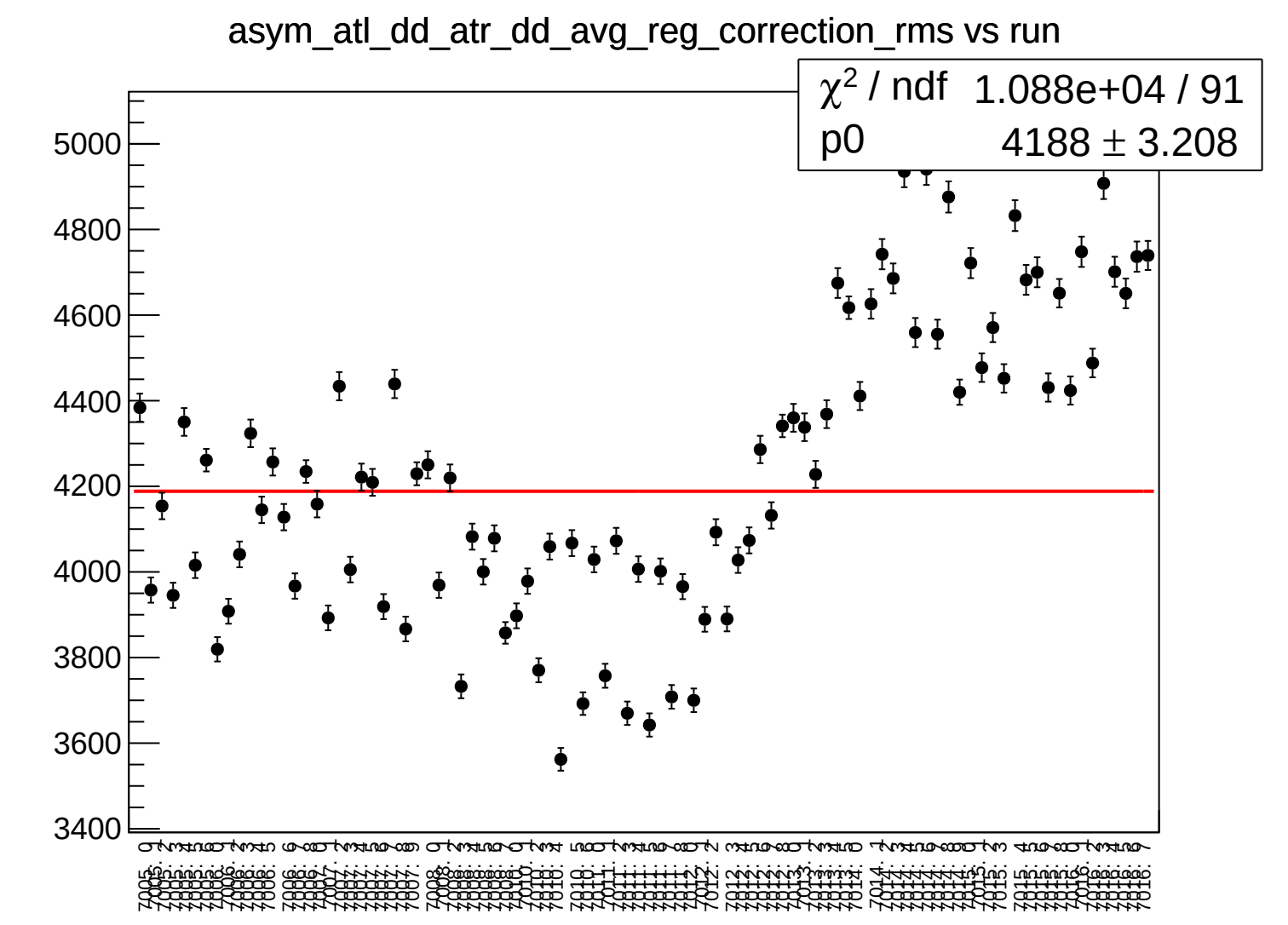

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.02 / 91
p0 3671 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 729.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

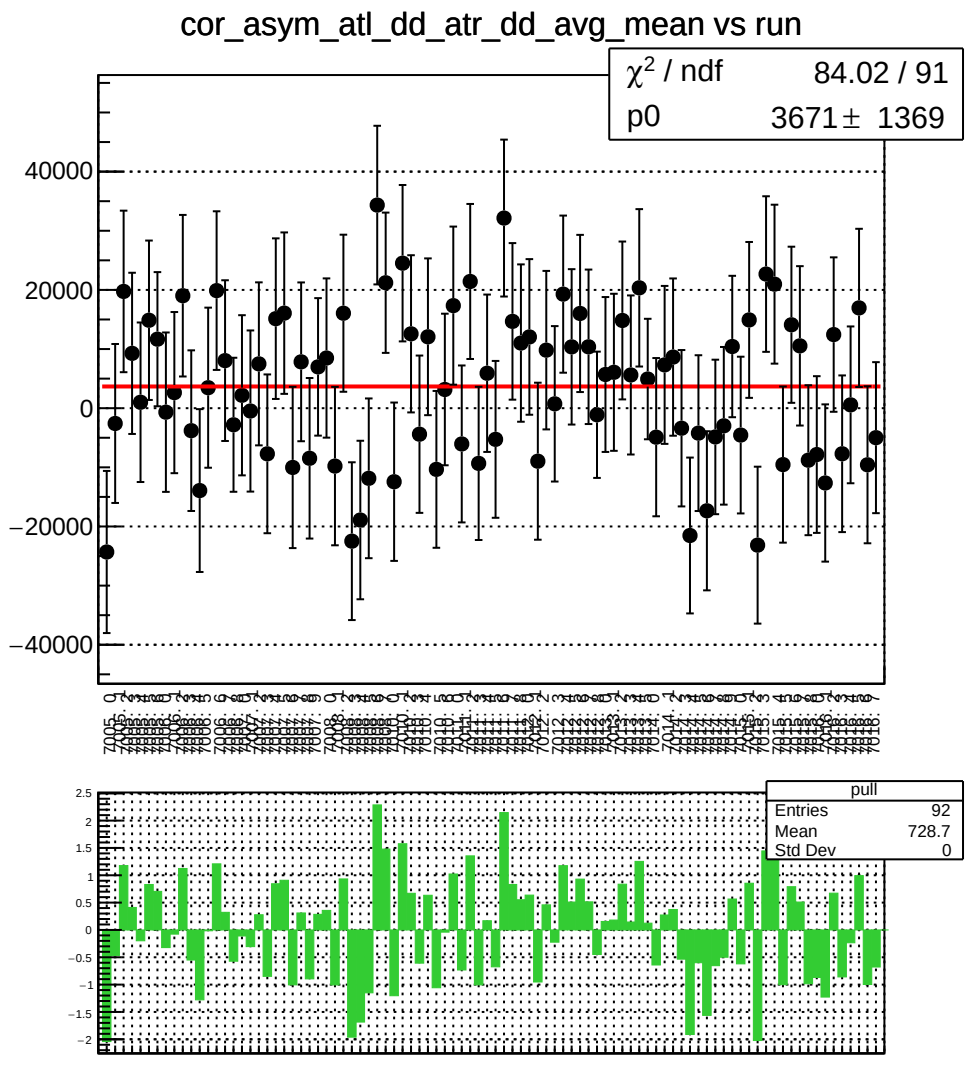

pull1D
Entries 92
Mean −0.002333
Std Dev 0.9556
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

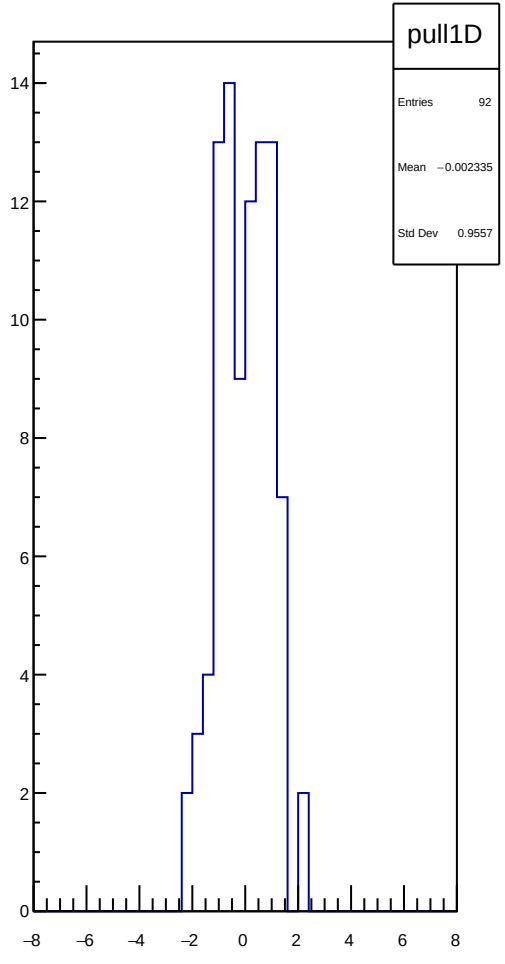

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 296.1 / 91
p0 1268 ± 0.9679
1320
1300
1280
1260
1240
1220

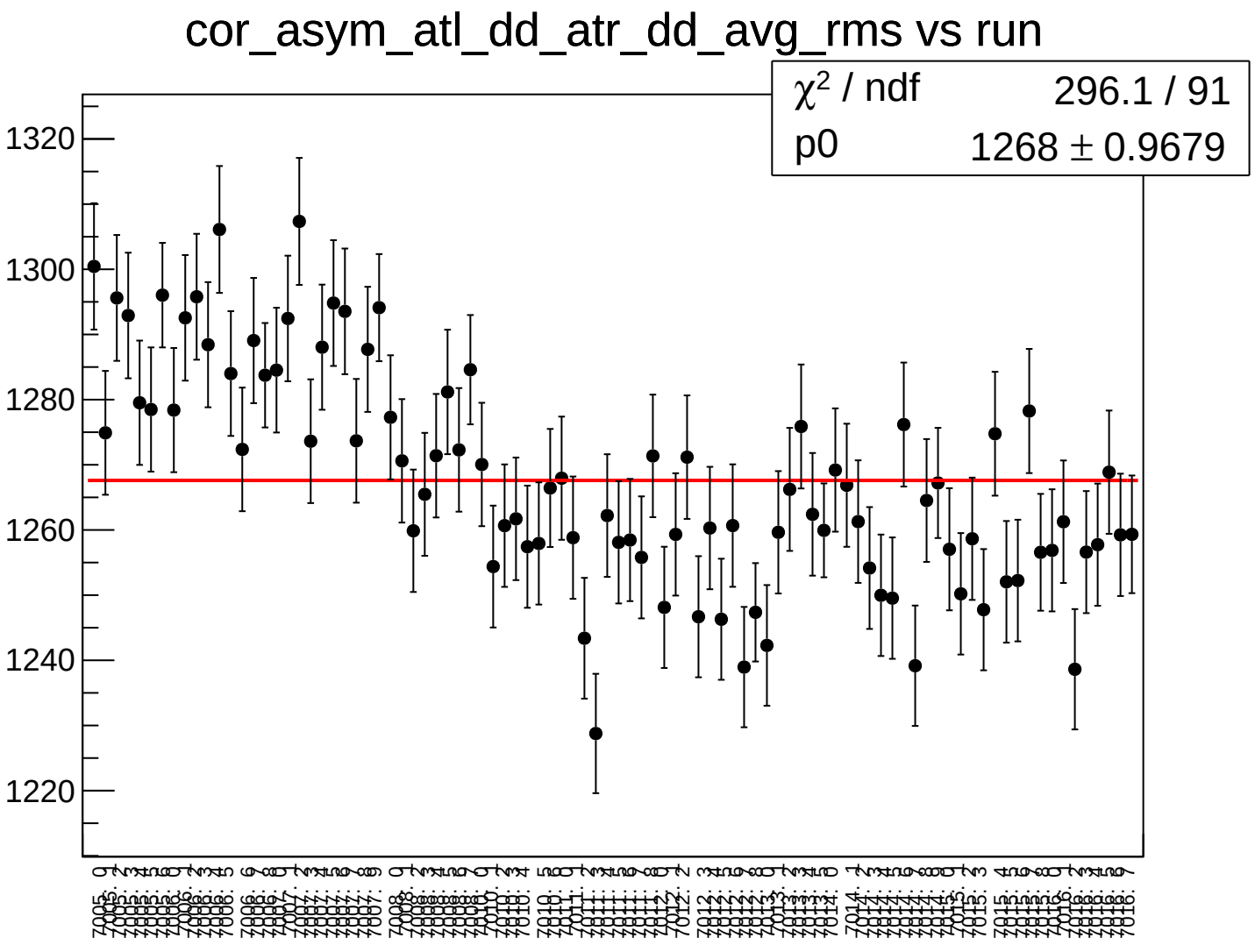

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.89 / 91
p0 1.22e+04 ± 4537
pull
Entries 92
Mean 619.3
Std Dev 0

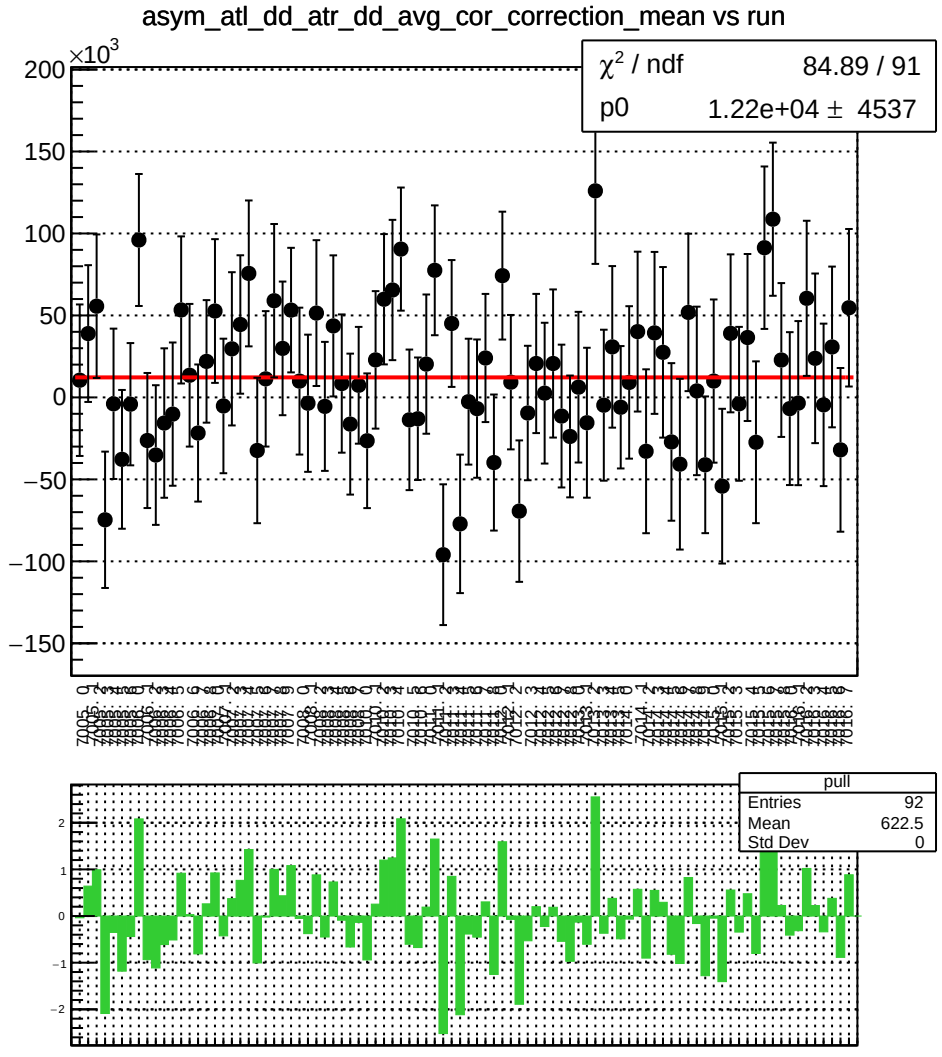

pull1D
Entries 92
Mean 0.0007259
Std Dev 0.9606

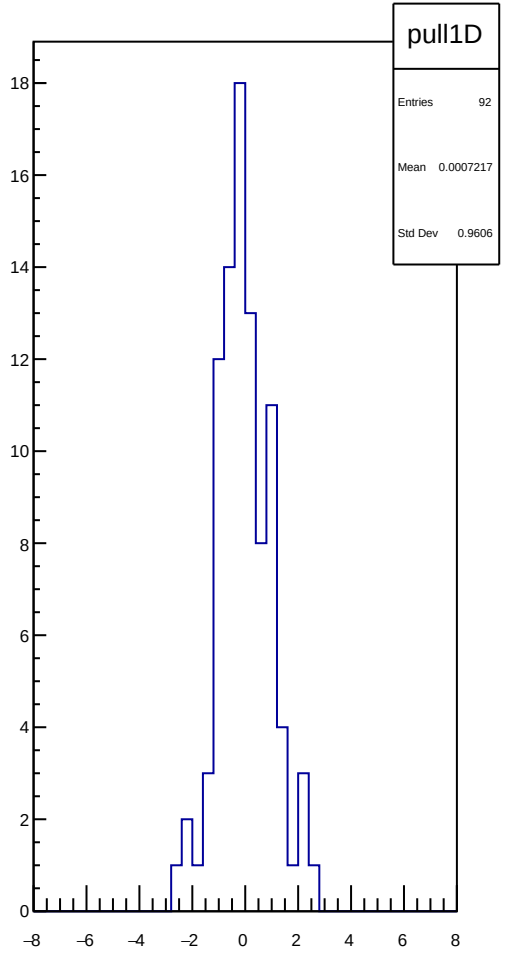

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.088e+04 / 91
p0 4188 ± 3.208
5000
4800
4600
4400
4200
4000
3800
3600
3400

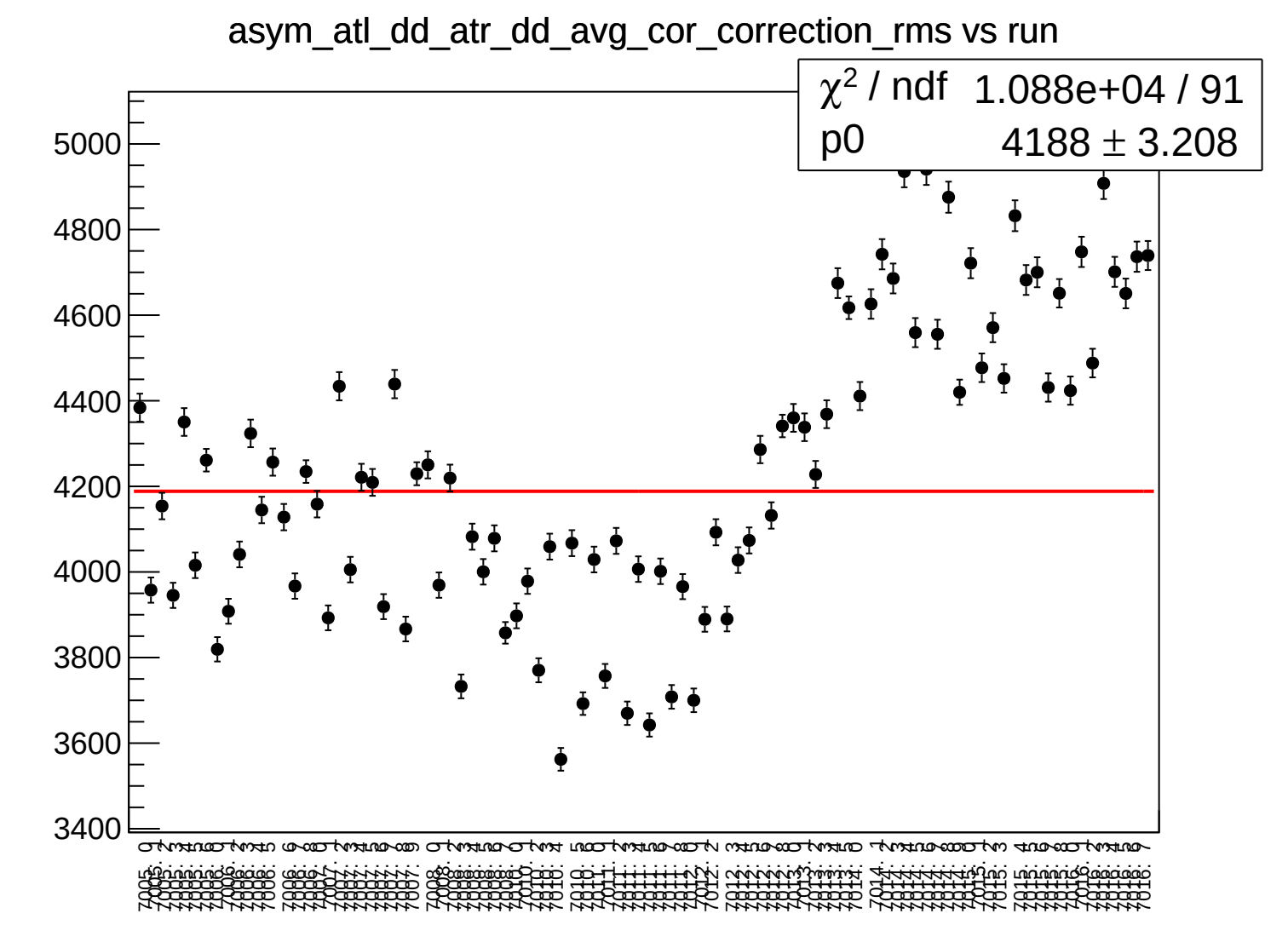

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.02 / 91
p0 3671 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 728.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

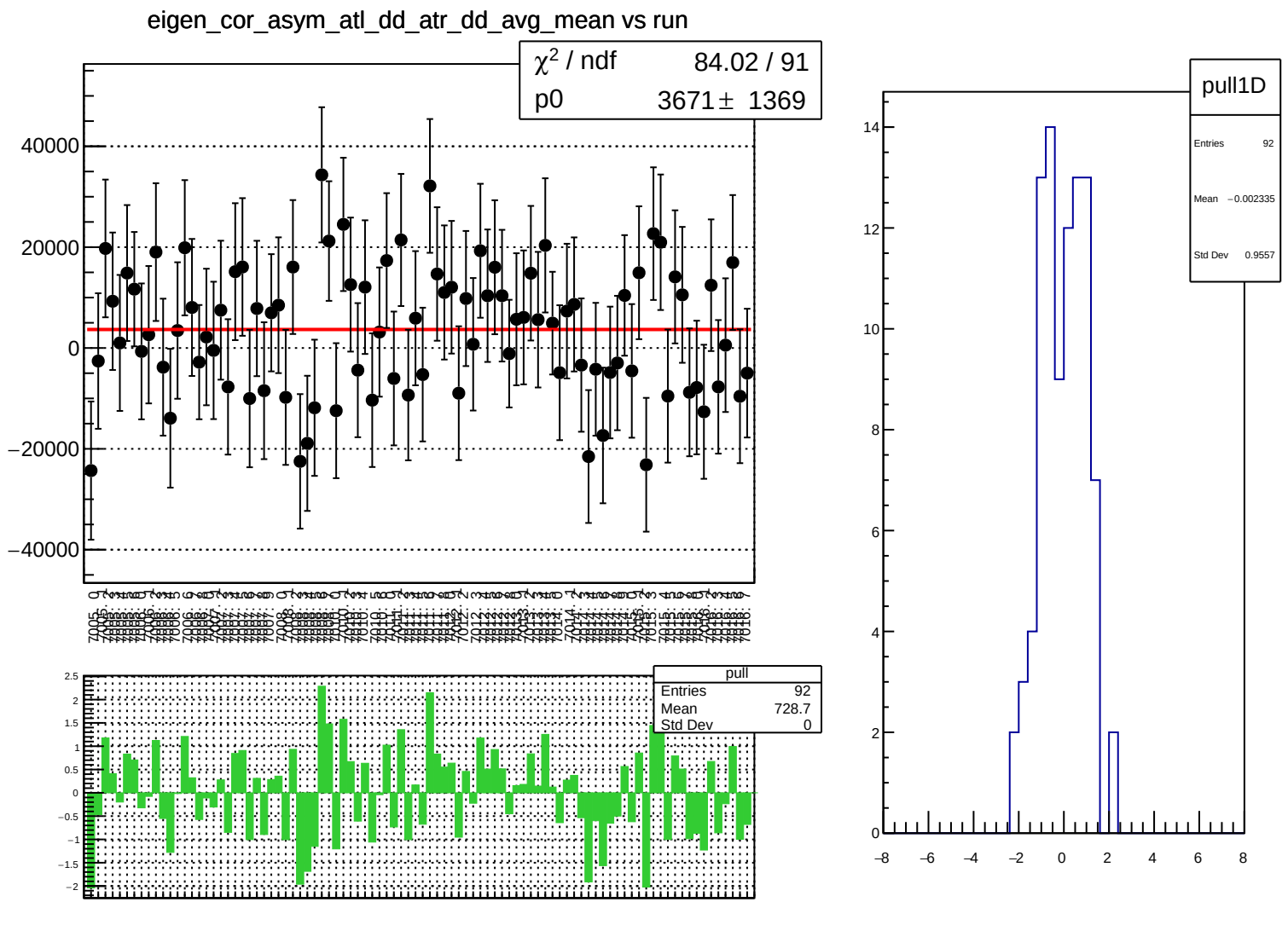

pull1D
Entries 92
Mean −0.002335
Std Dev 0.9557
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

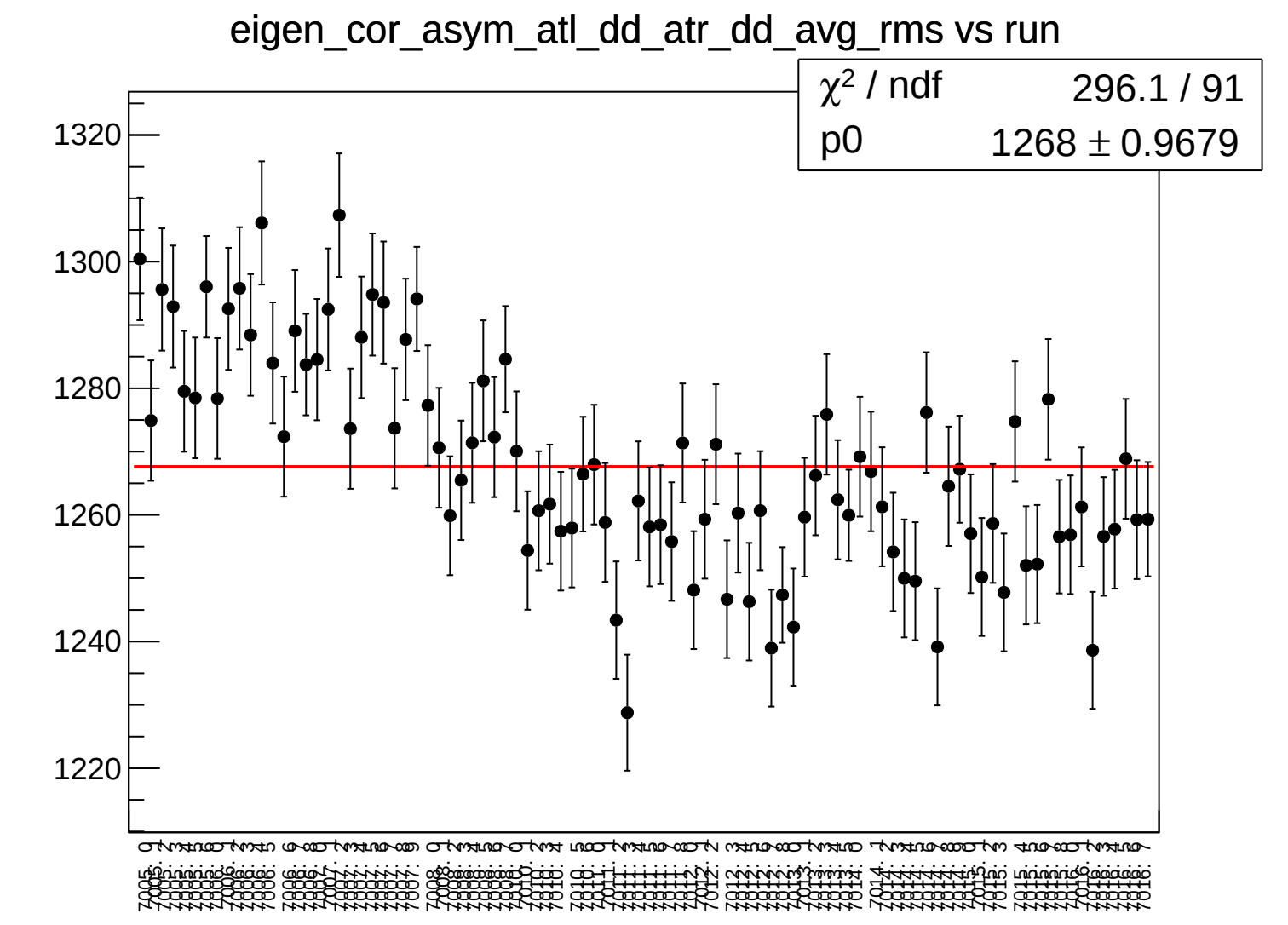

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 296.1 / 91
p0 1268 ± 0.9679
1320
1300
1280
1260
1240
1220

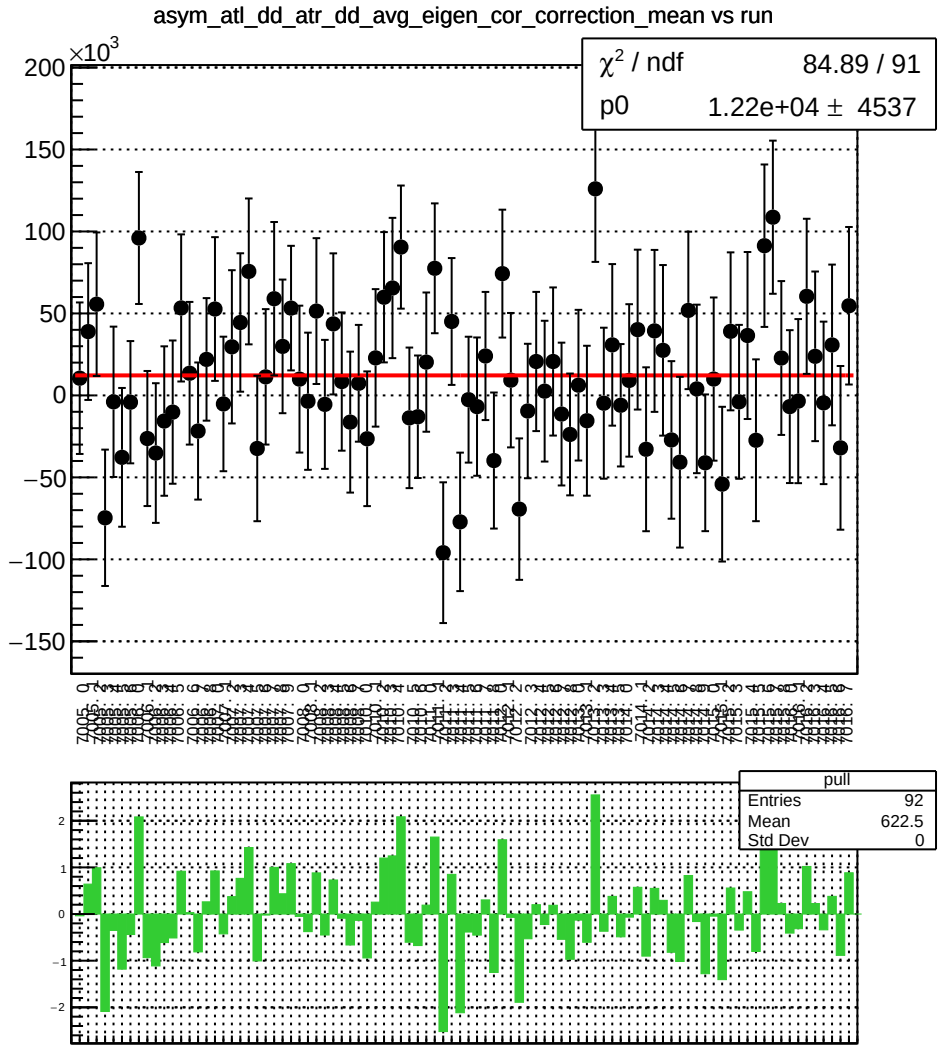

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.89 / 91
p0 1.22e+04 ± 4537
pull
Entries 92
Mean 622.5
Std Dev 0

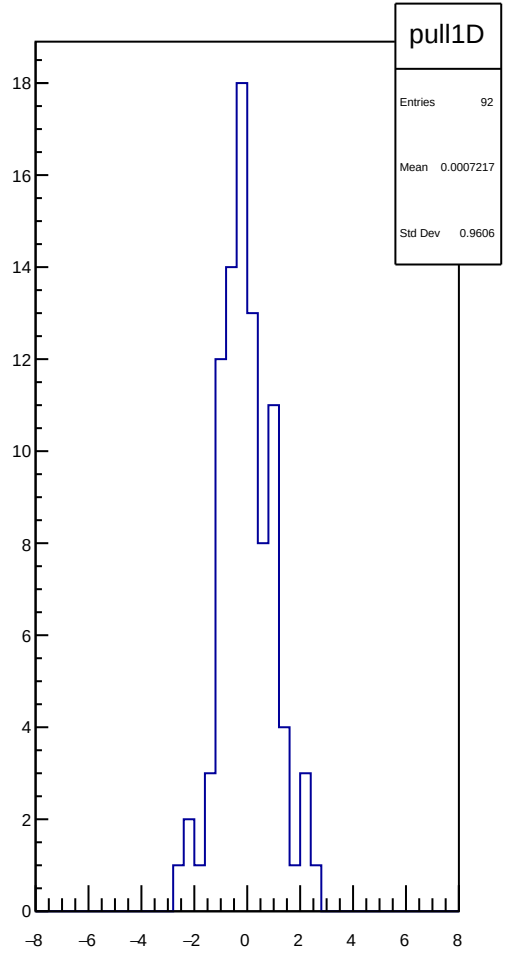

pull1D
Entries 92
Mean 0.0007217
Std Dev 0.9606

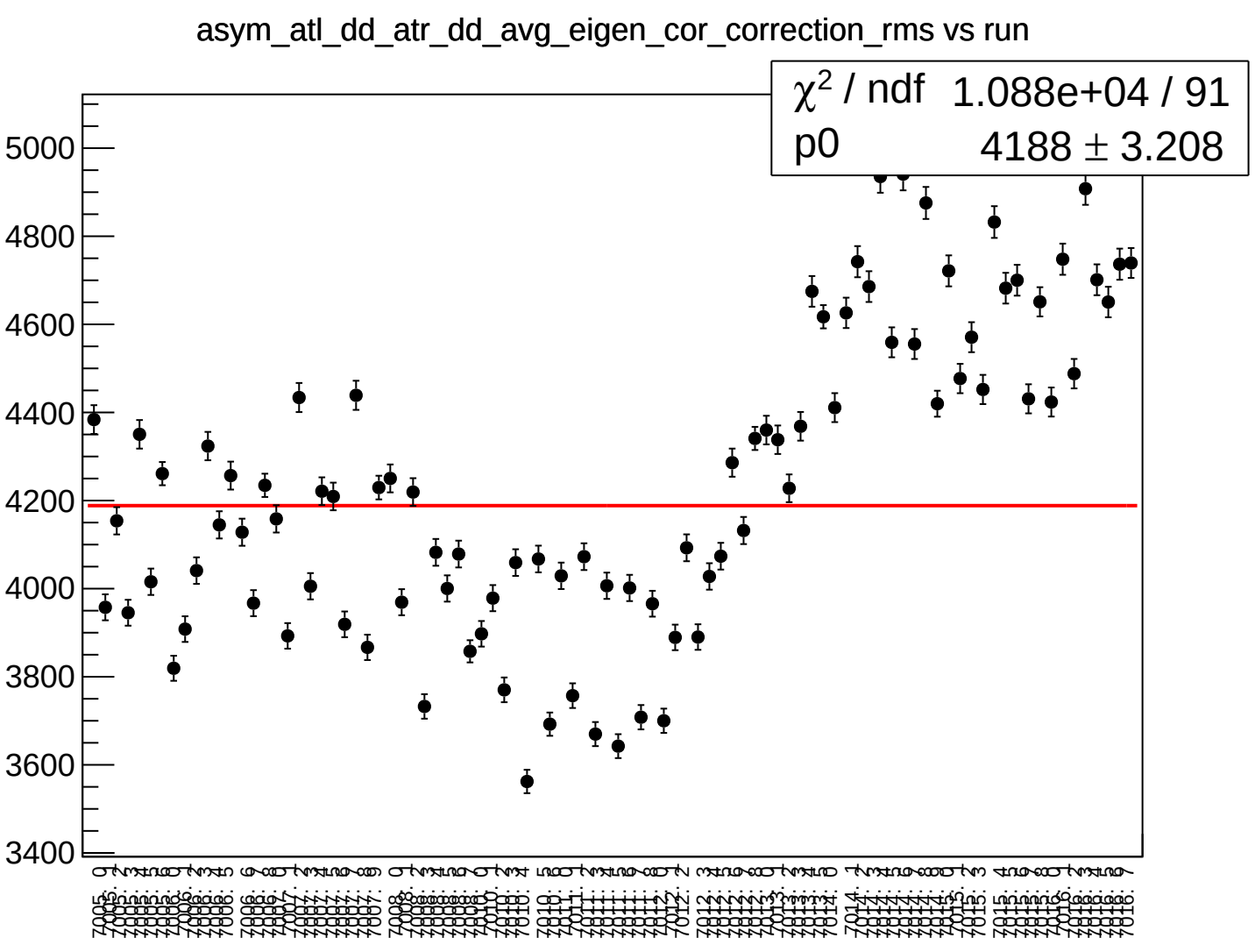

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.088e+04 / 91
p0 4188 ± 3.208
5000
4800
4600
4400
4200
4000
3800
3600
3400

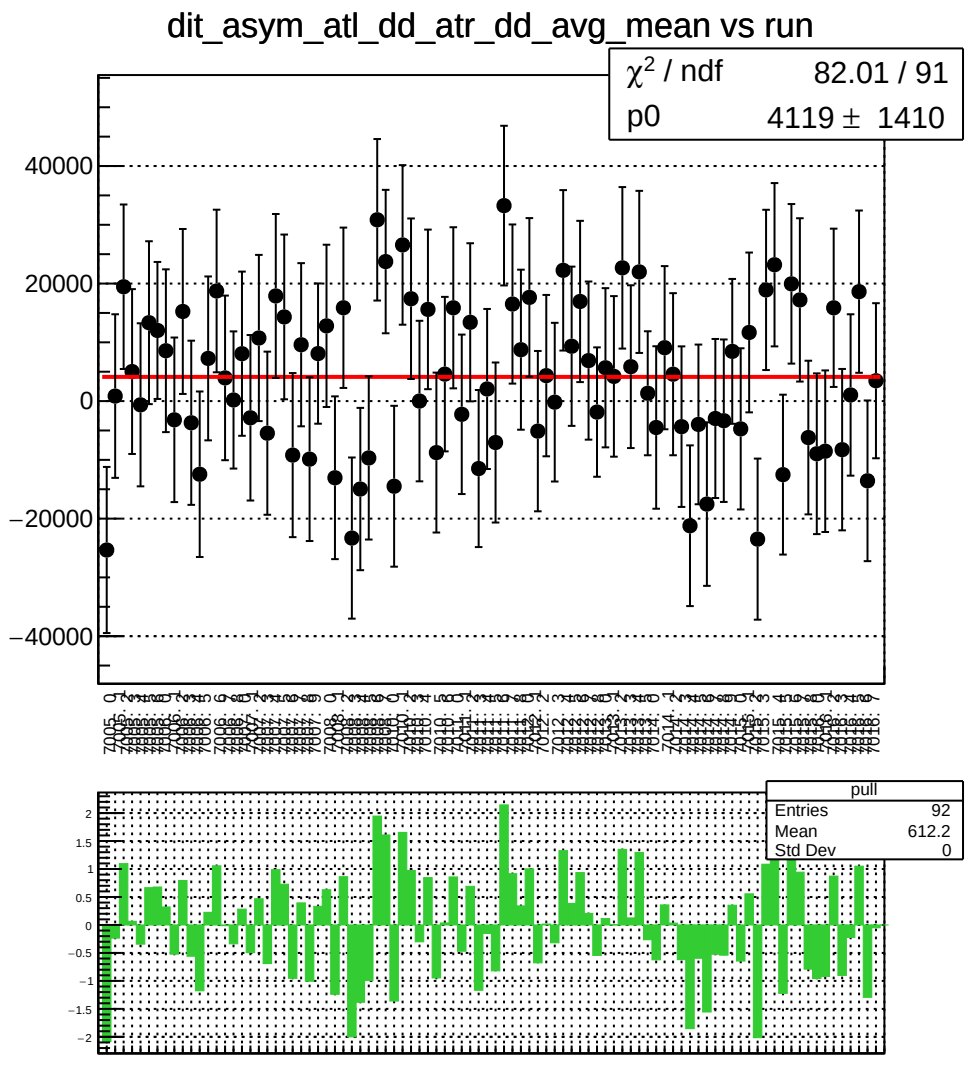

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 84.02 / 91
p0 3671 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 728.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.002335
Std Dev 0.9557
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

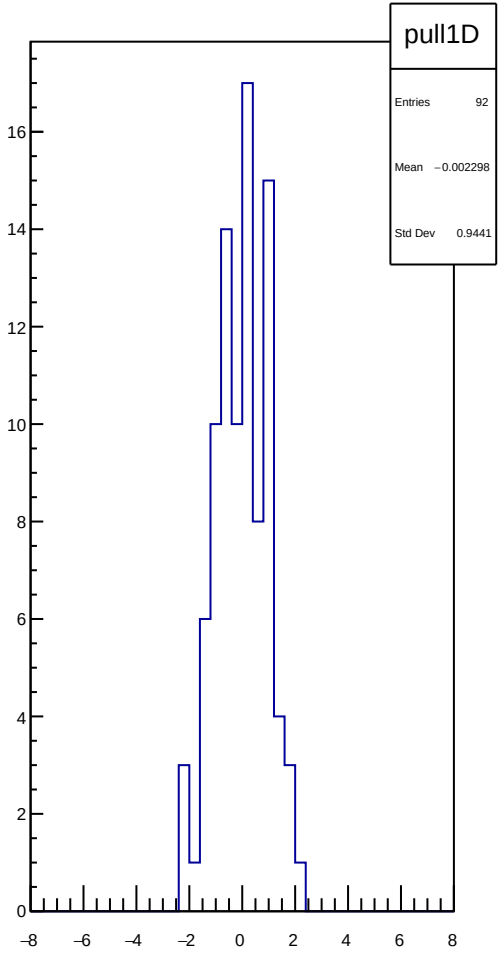

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 296.1 / 91
p0 1268 ± 0.9679
1320
1300
1280
1260
1240
1220

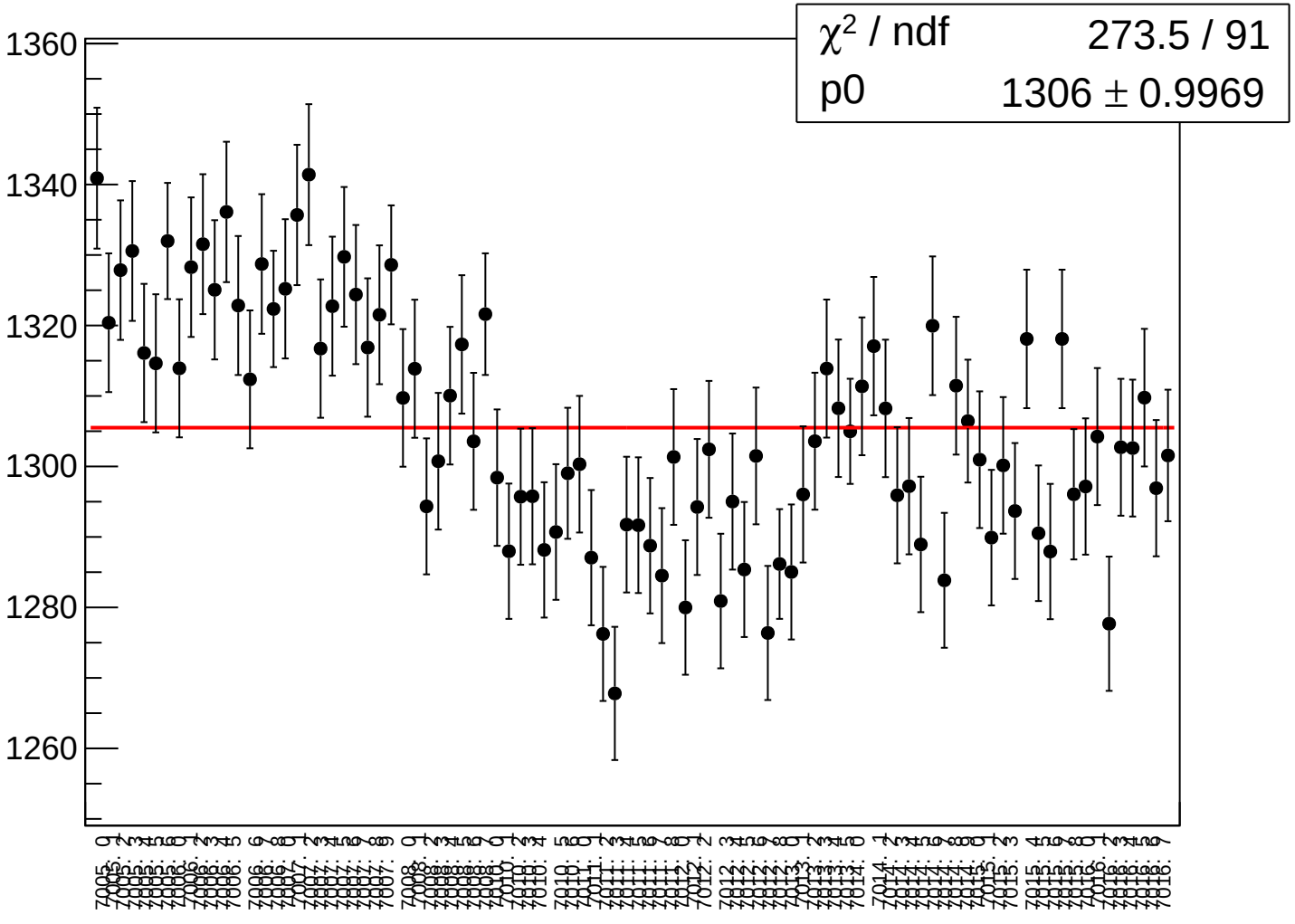

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.89 / 91
p0 1.22e+04 ± 4537
pull
Entries 92
Mean 622.5
Std Dev 0

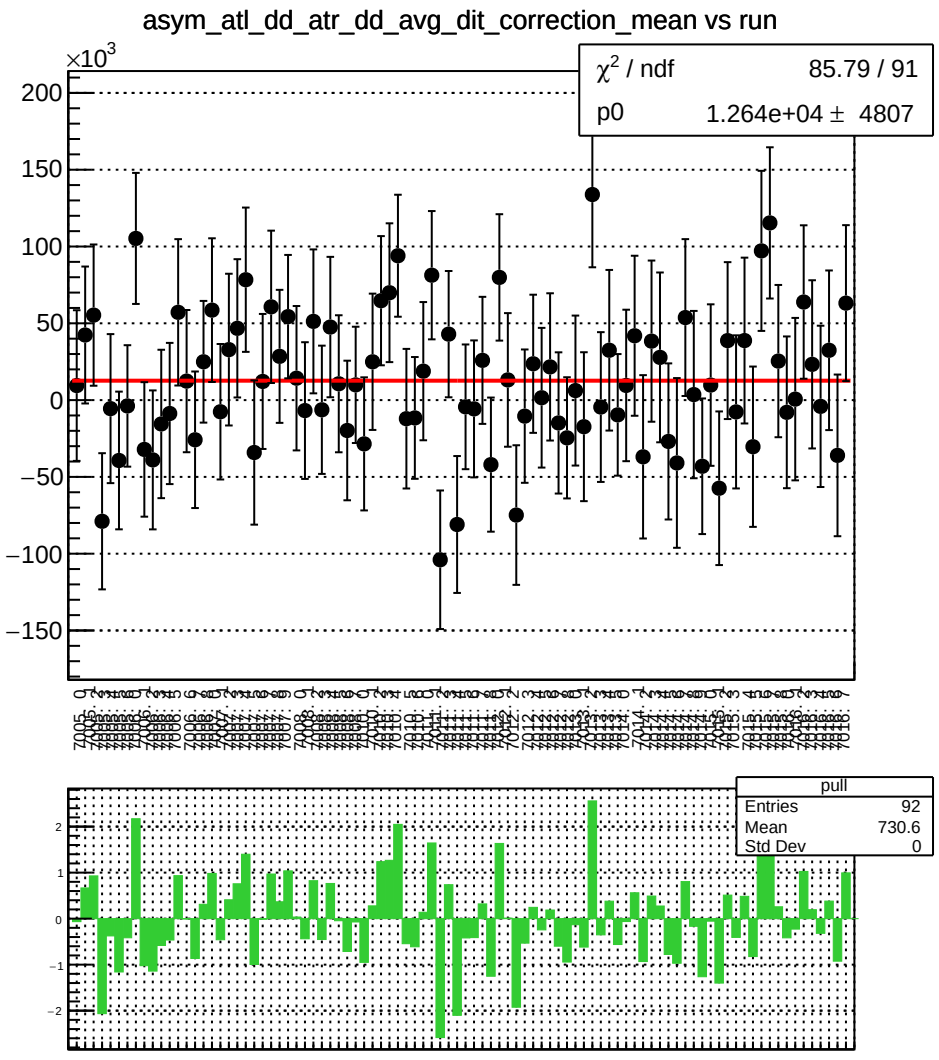

pull1D
Entries 92
Mean 0.0007217
Std Dev 0.9606

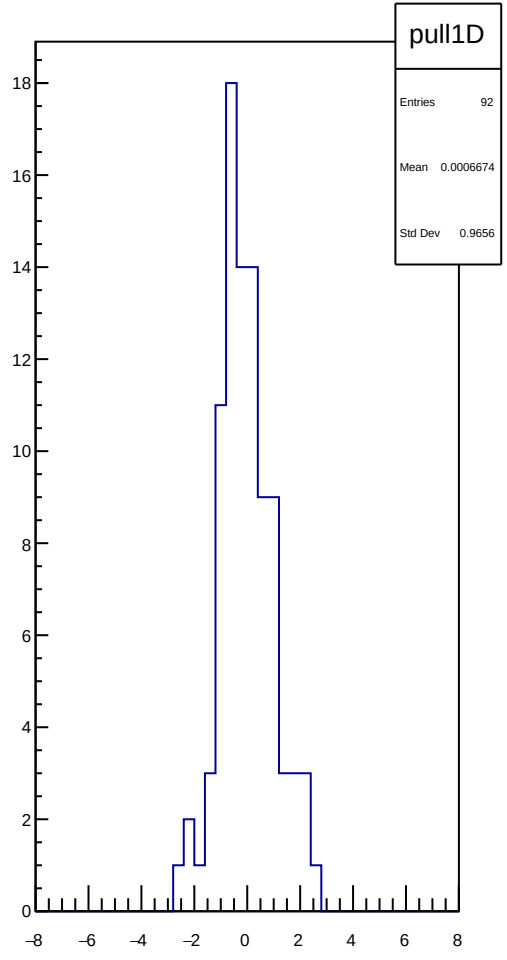

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.088e+04 / 91
p0 4188 ± 3.208
5000
4800
4600
4400
4200
4000
3800
3600
3400

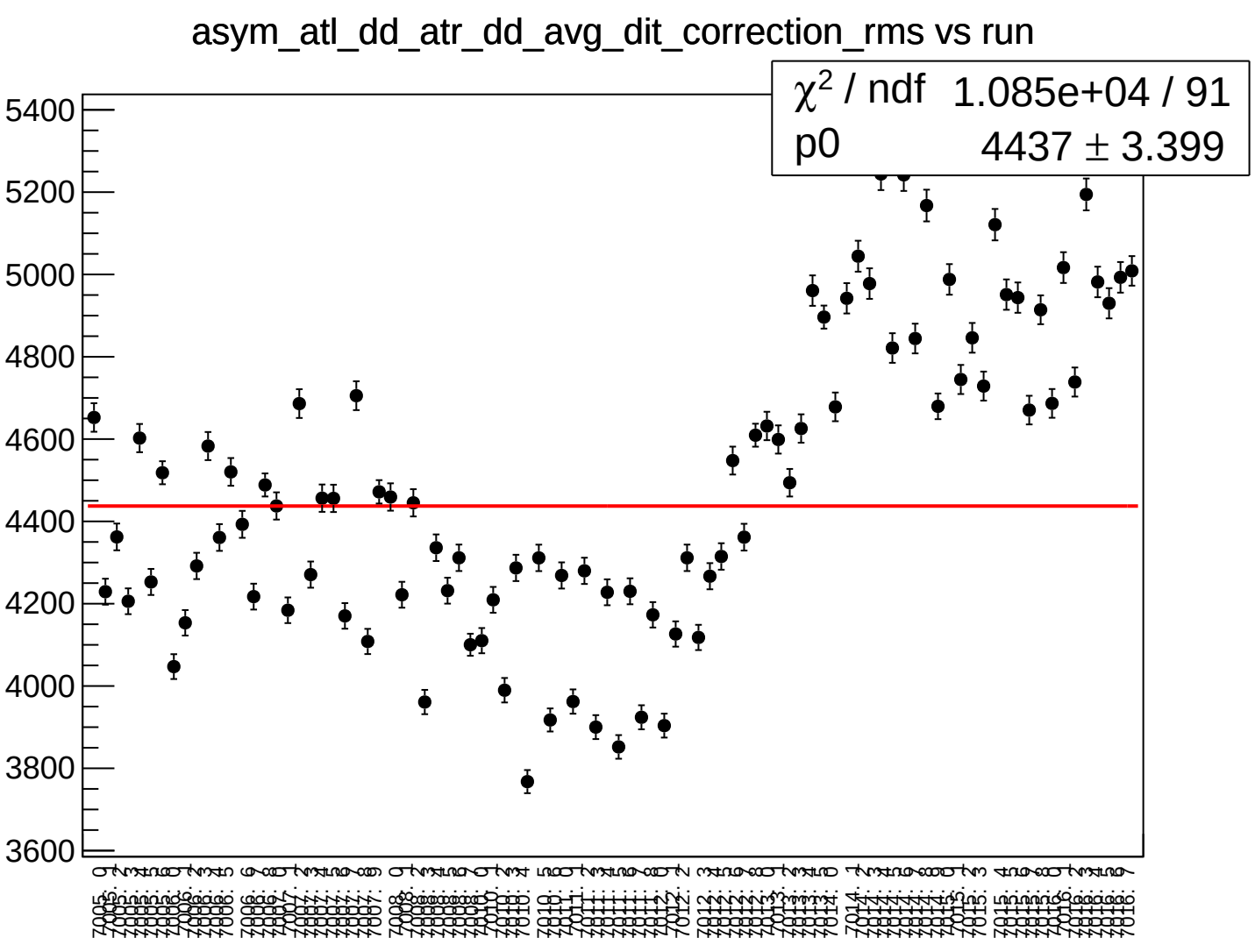

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 82.01 / 91
p0 4119 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 612.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

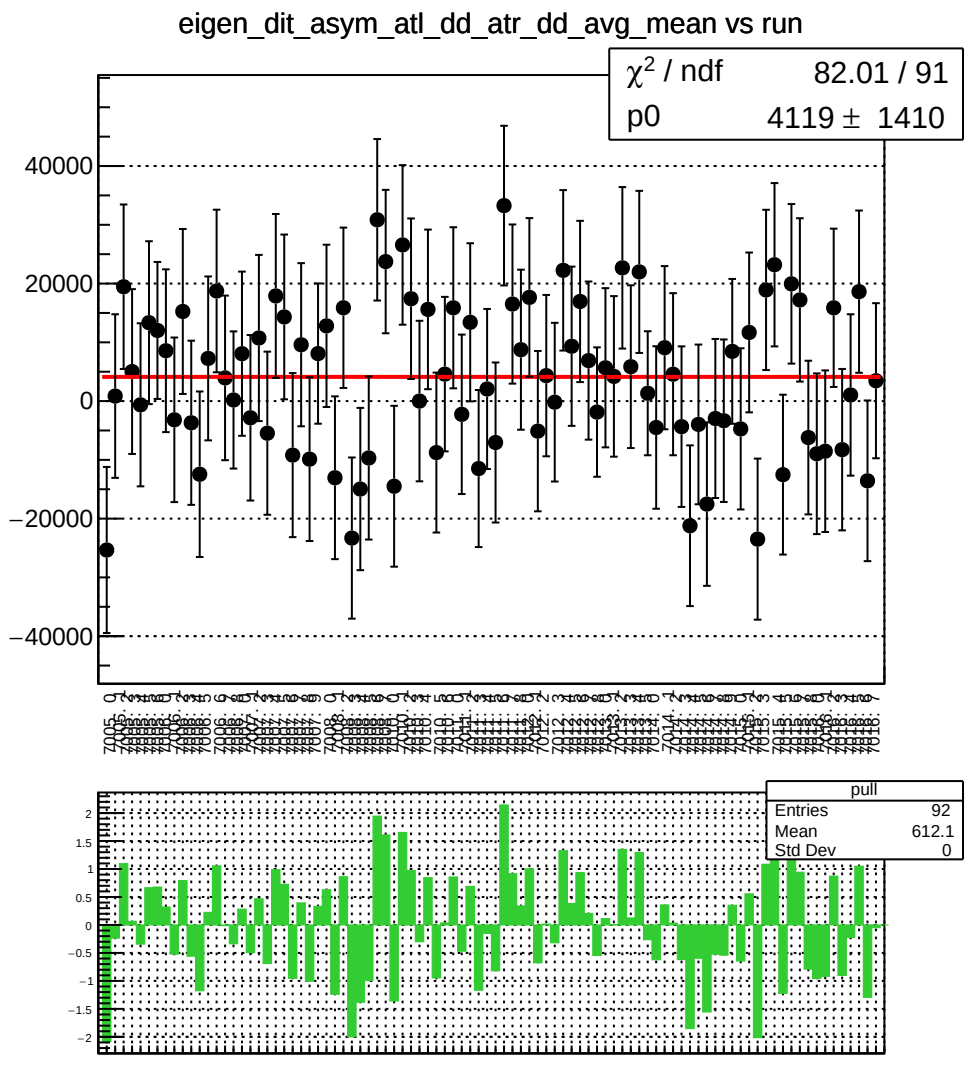

pull1D
Entries 92
Mean −0.002298
Std Dev 0.9441
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

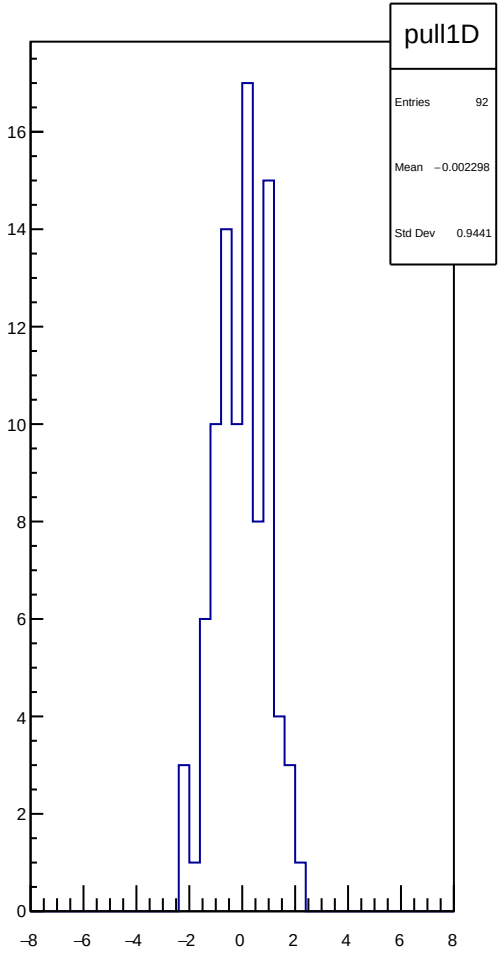

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 273.5 / 91
p0 1306 ± 0.9969
1360
1340
1320
1300
1280
1260

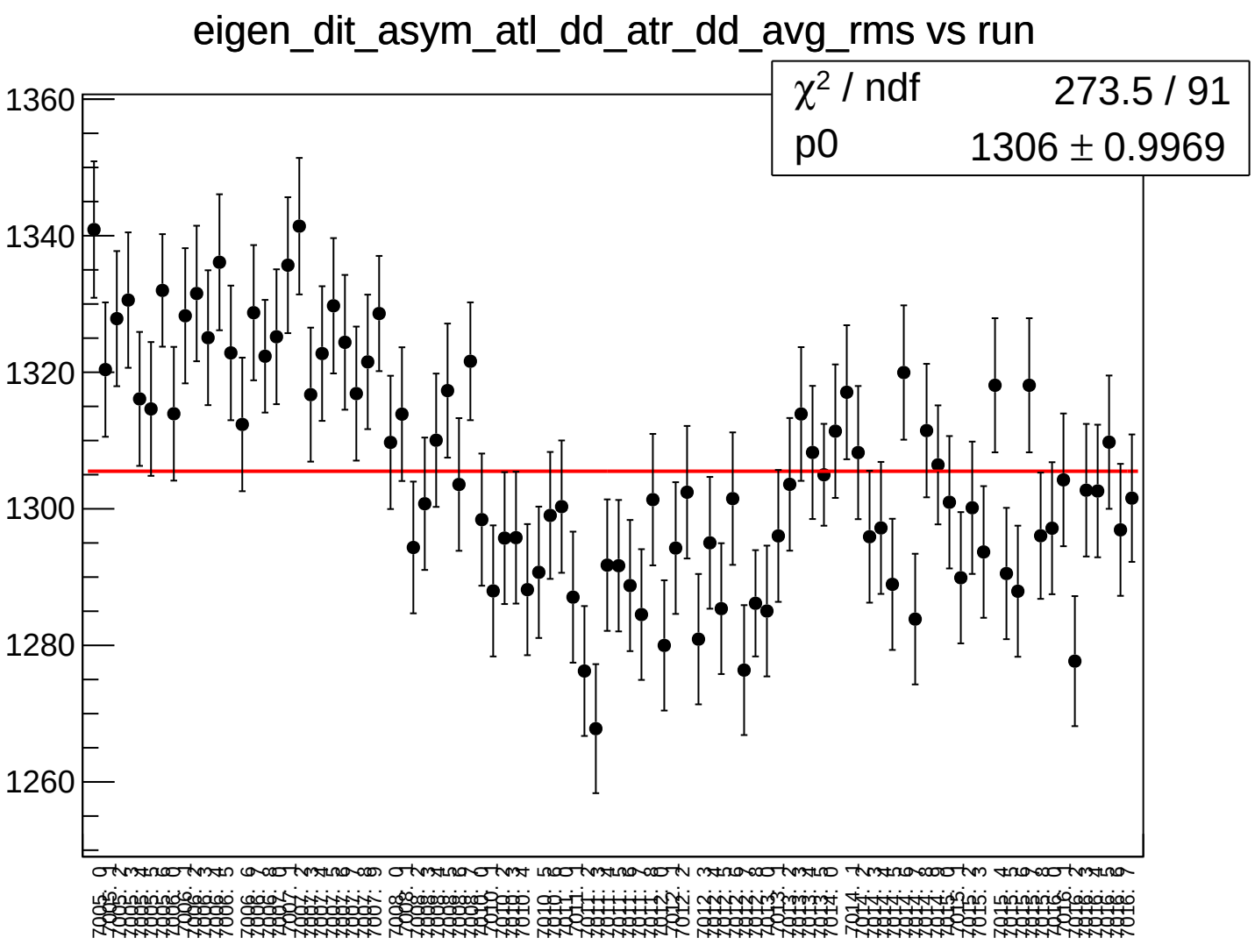

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.79 / 91
p0 1.264e+04 ± 4807
pull
Entries 92
Mean 730.6
Std Dev 0

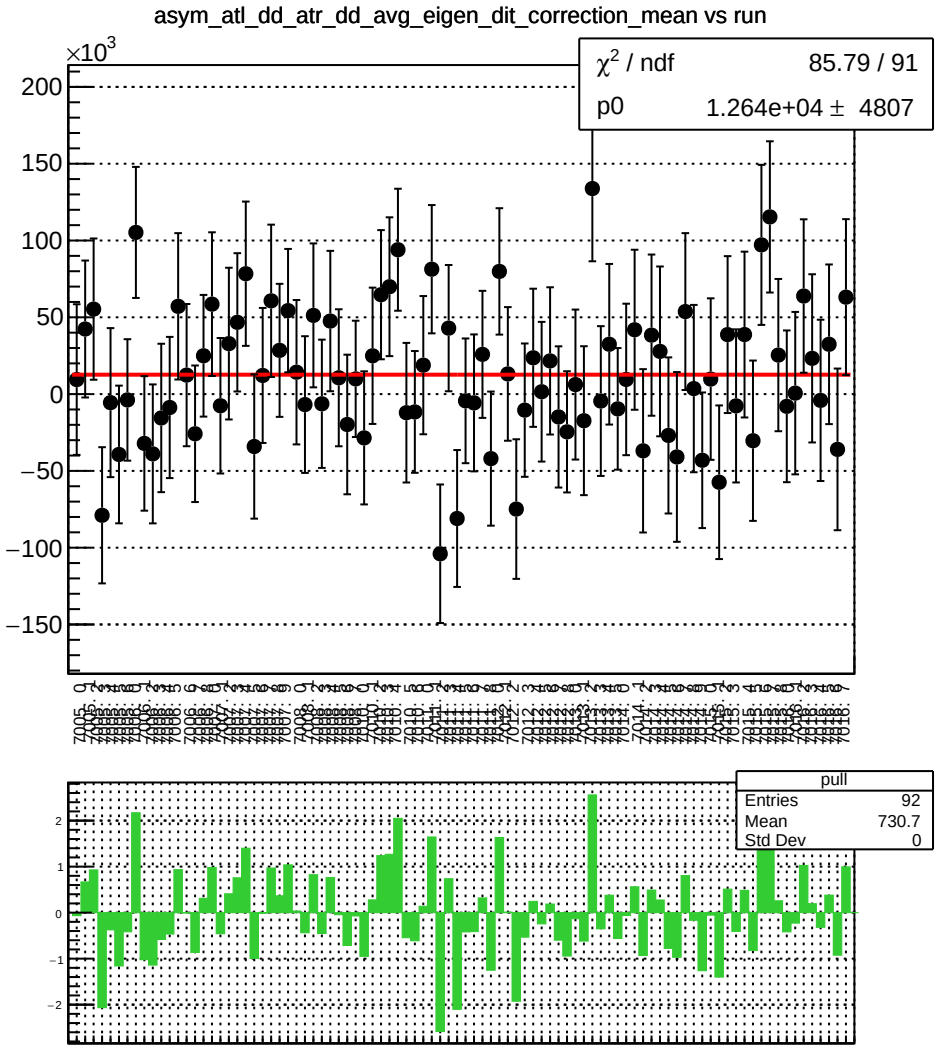

pull1D
Entries 92
Mean 0.0006674
Std Dev 0.9656

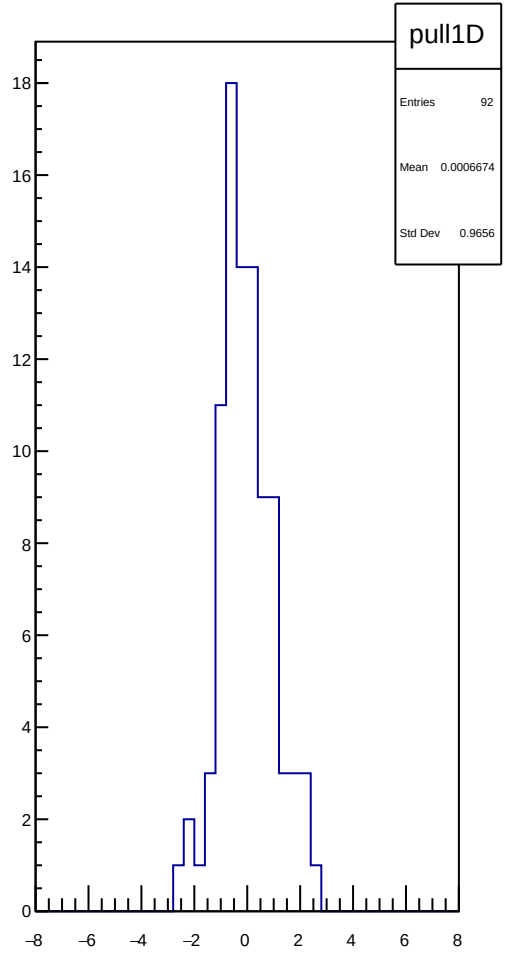

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 91
p0 4437 ± 3.399
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

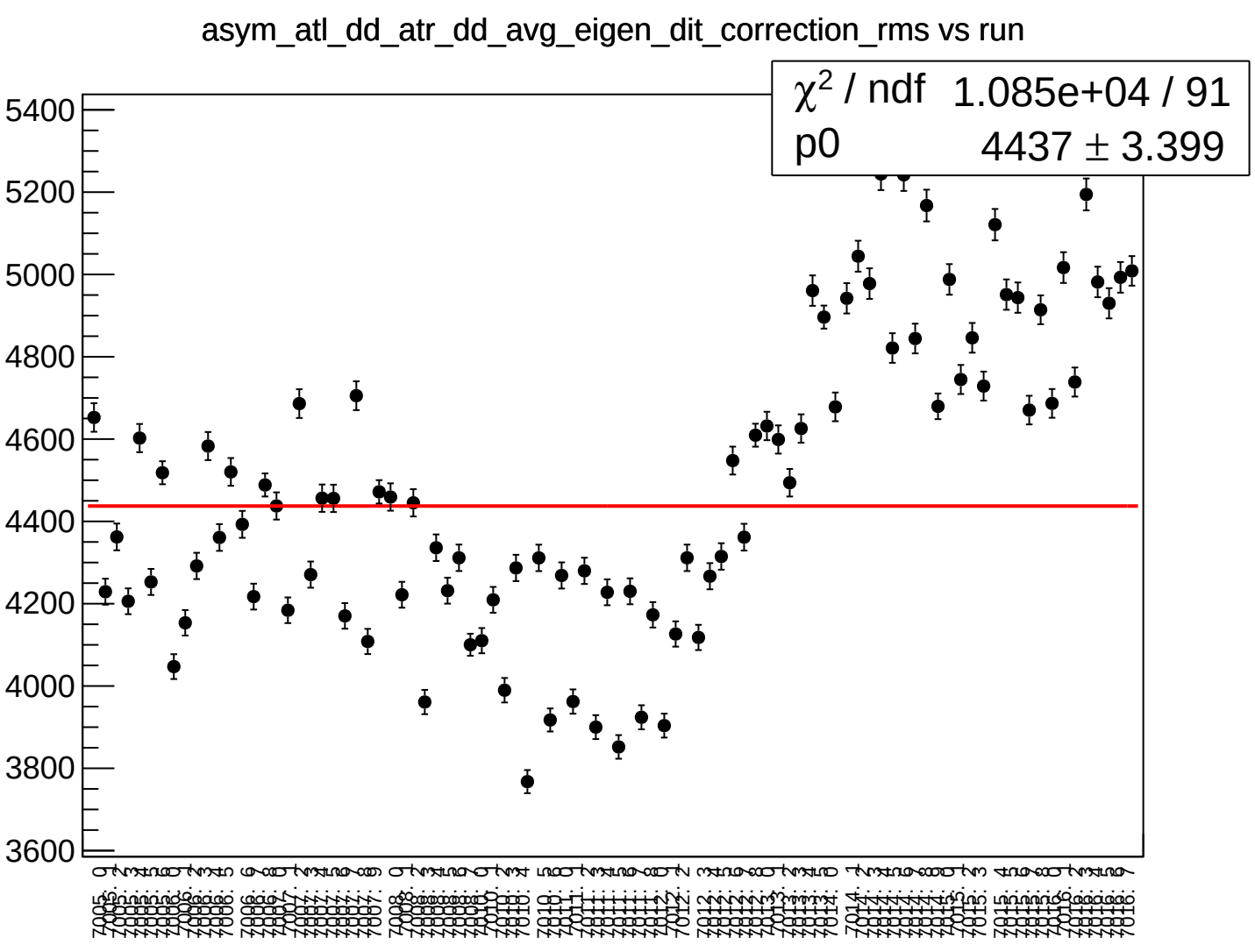

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 82.01 / 91
p0 4119 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 612.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

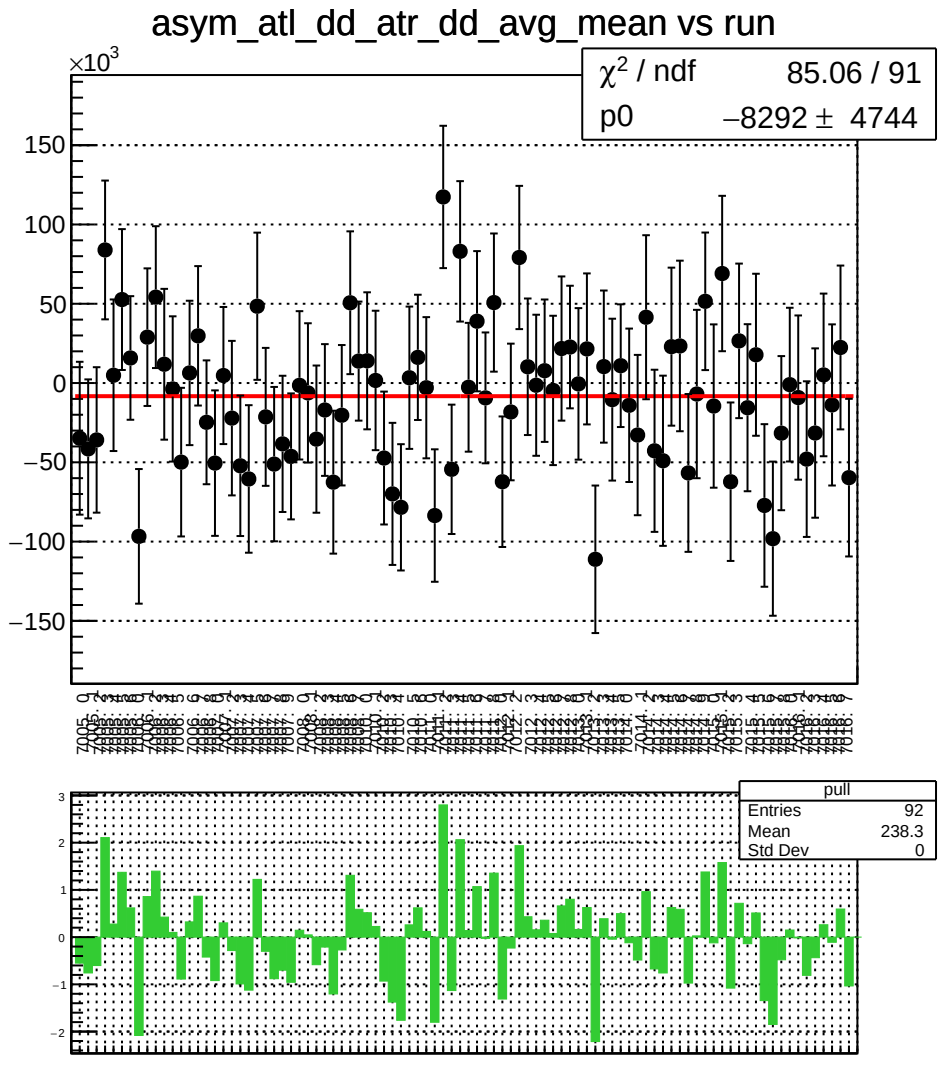

pull1D
Entries 92
Mean −0.002298
Std Dev 0.9441
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

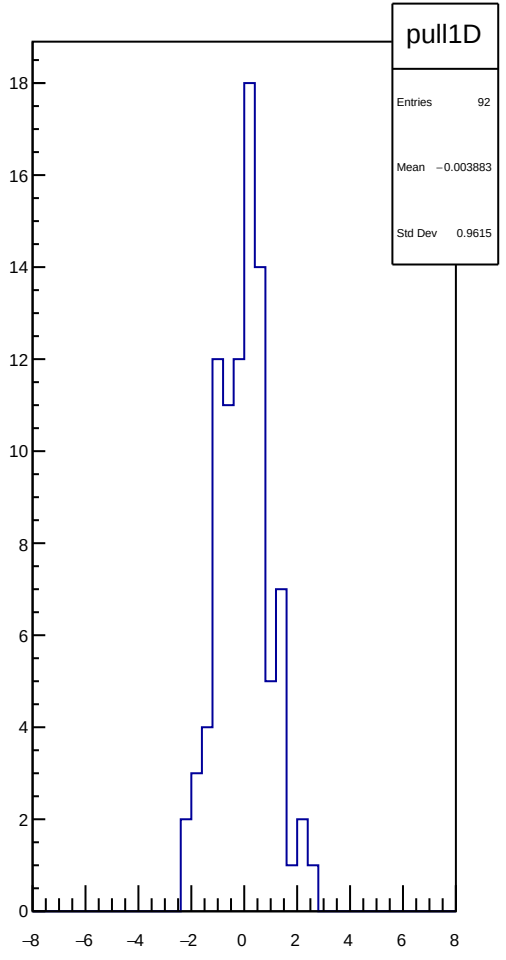

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 273.5 / 91
p0 1306 ± 0.9969
1360
1340
1320
1300
1280
1260

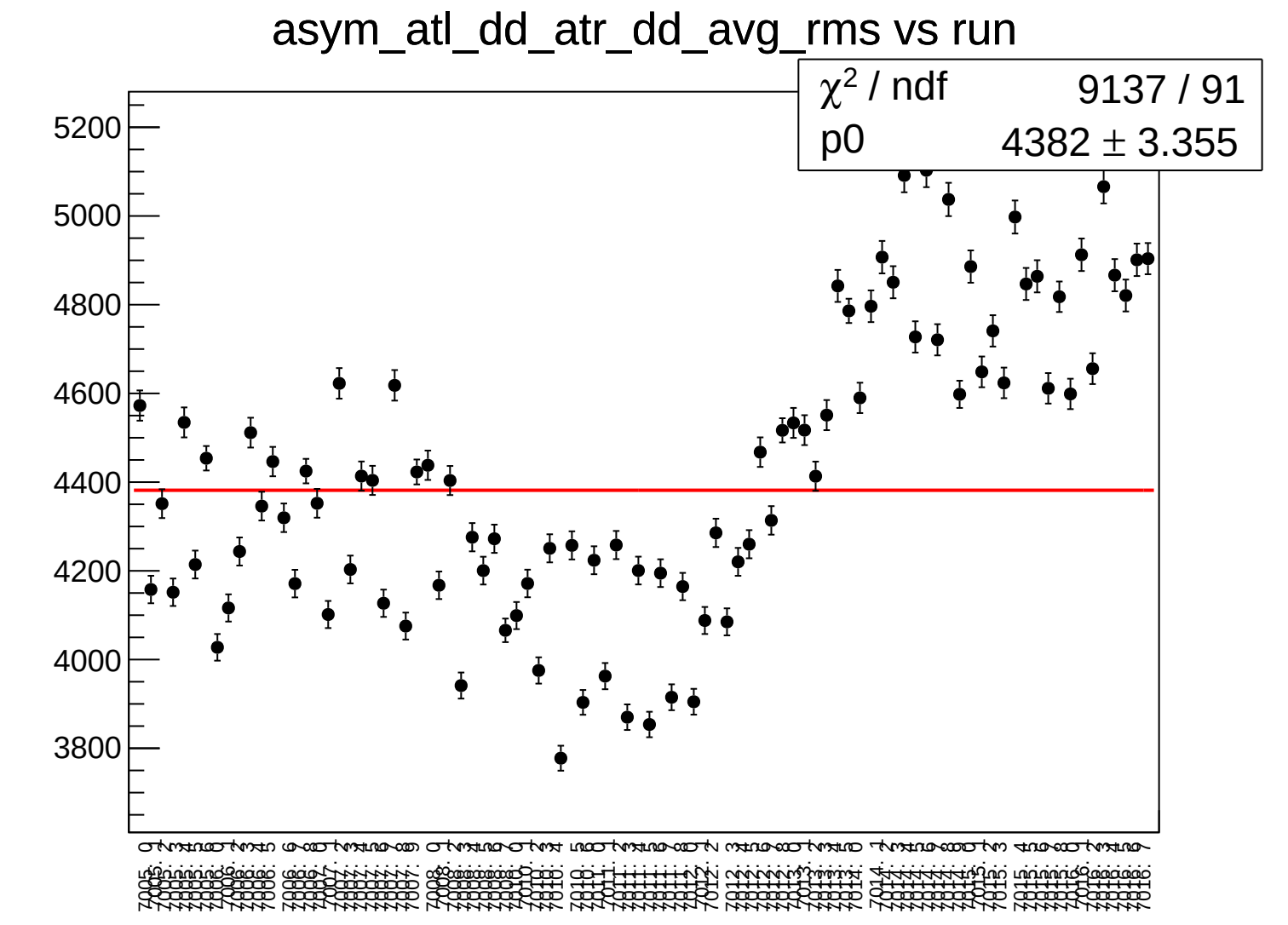

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.79 / 91
p0 1.264e+04 ± 4807
pull
Entries 92
Mean 730.7
Std Dev 0

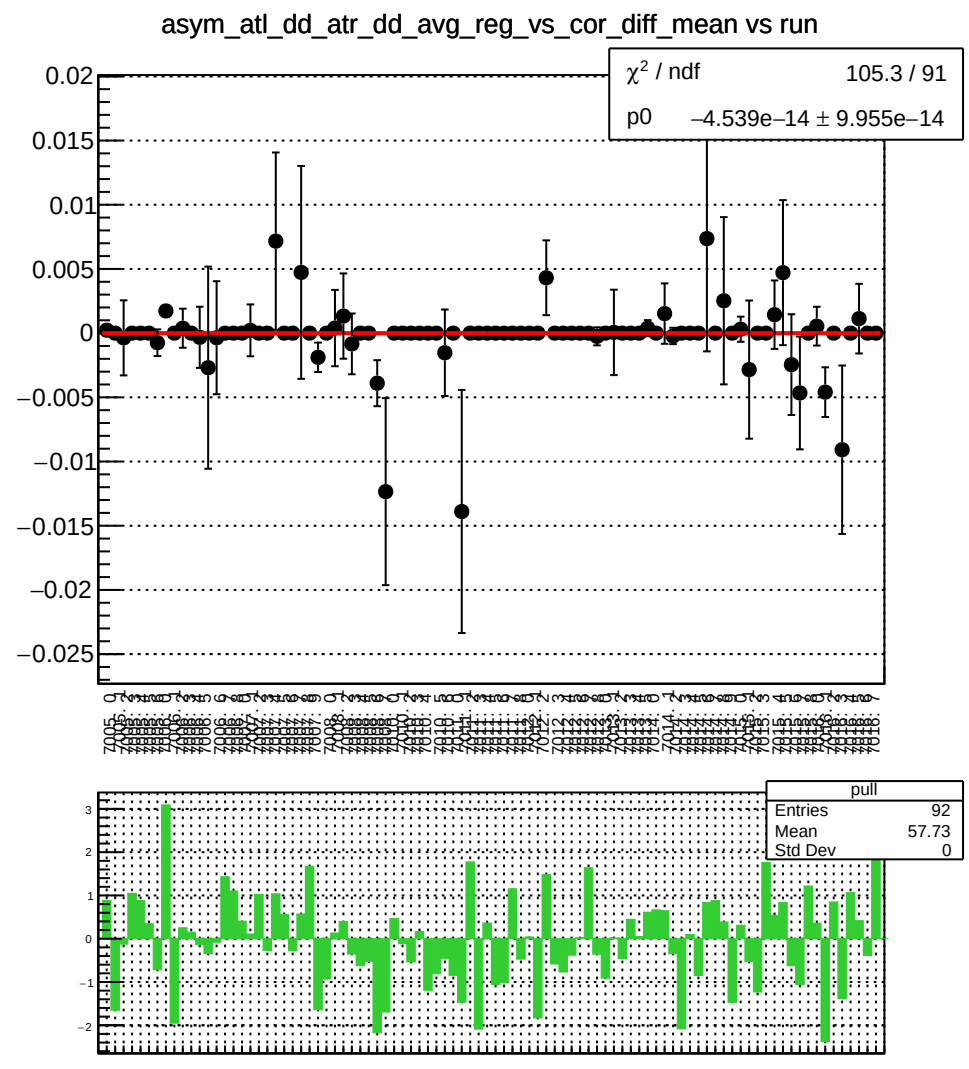

pull1D
Entries 92
Mean 0.0006674
Std Dev 0.9656

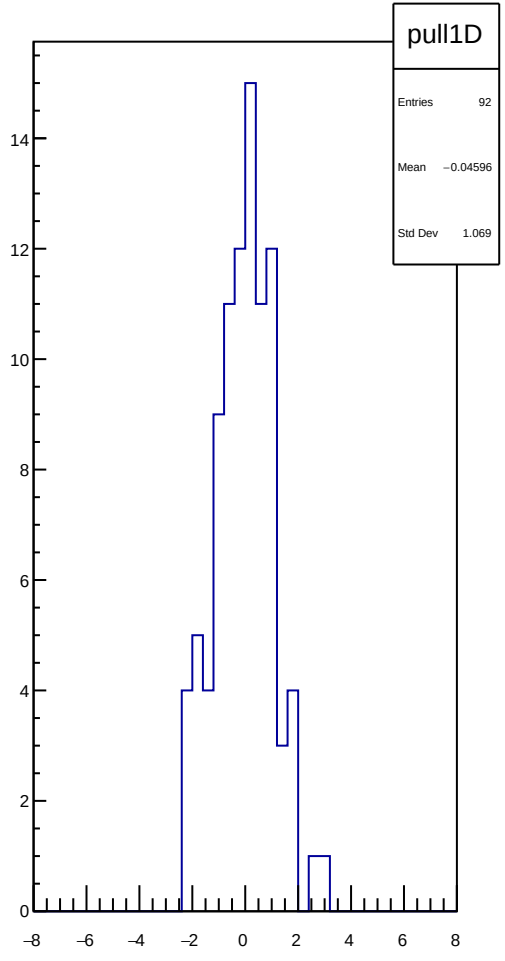

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 91
p0 4437 ± 3.399
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

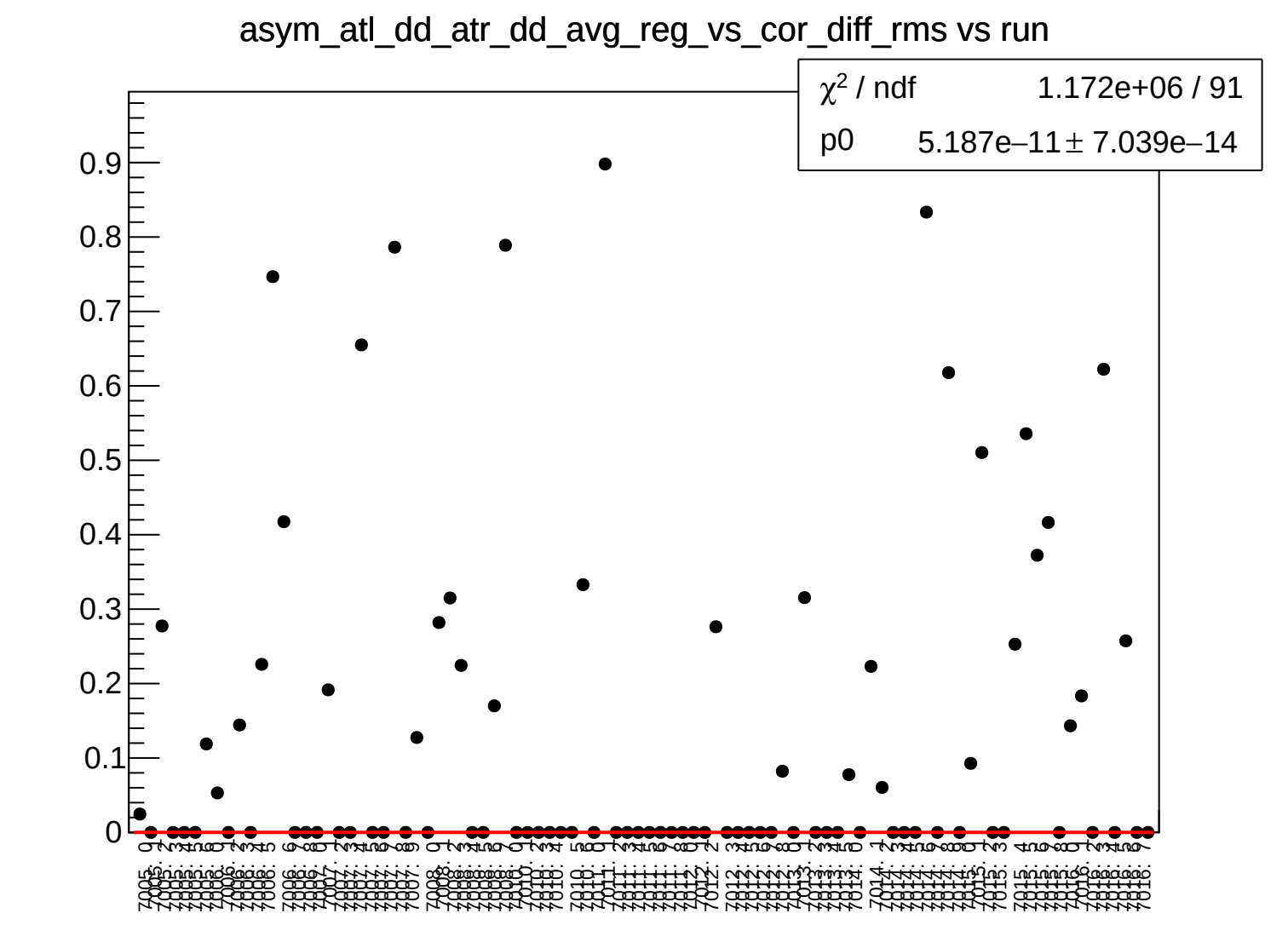

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 85.06 / 91
p0 −8292 ± 4744
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 238.3
Std Dev 0
3
2
1
0
−1
−2

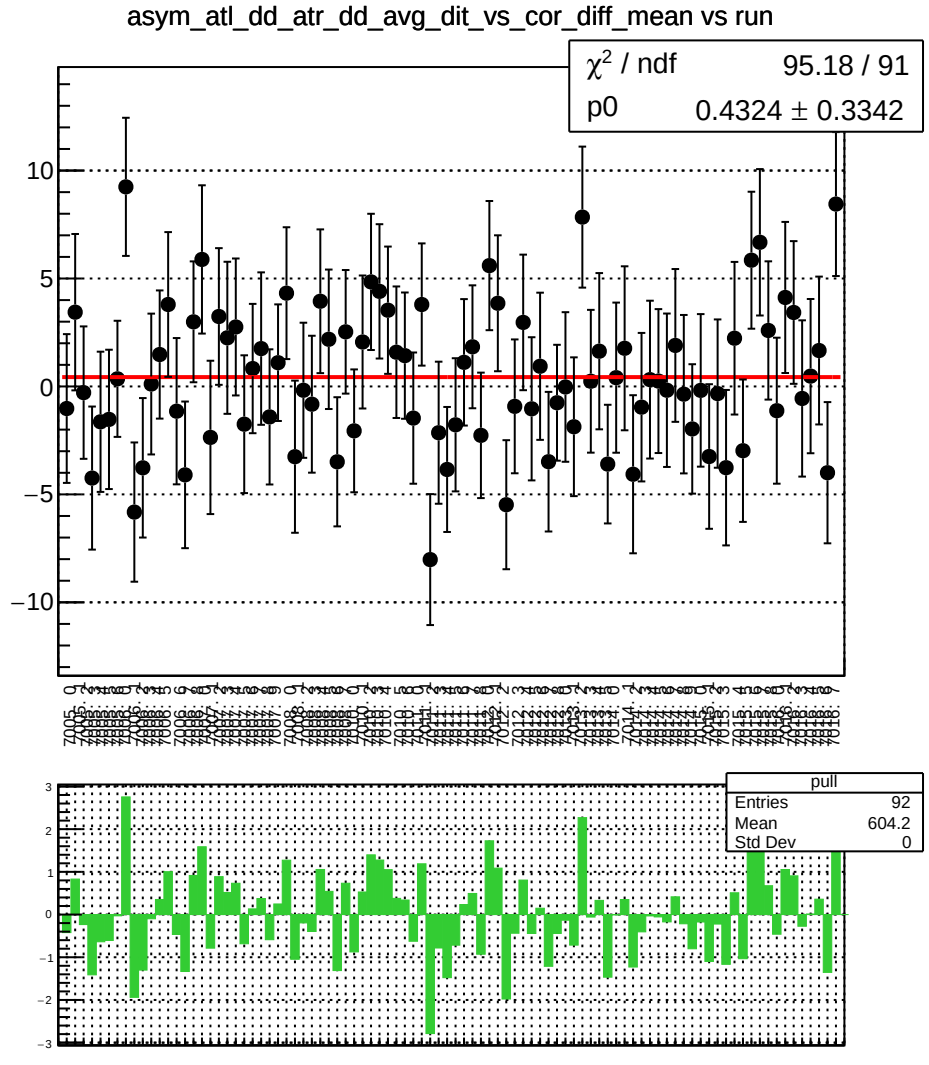

pull1D
Entries 92
Mean −0.003883
Std Dev 0.9615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

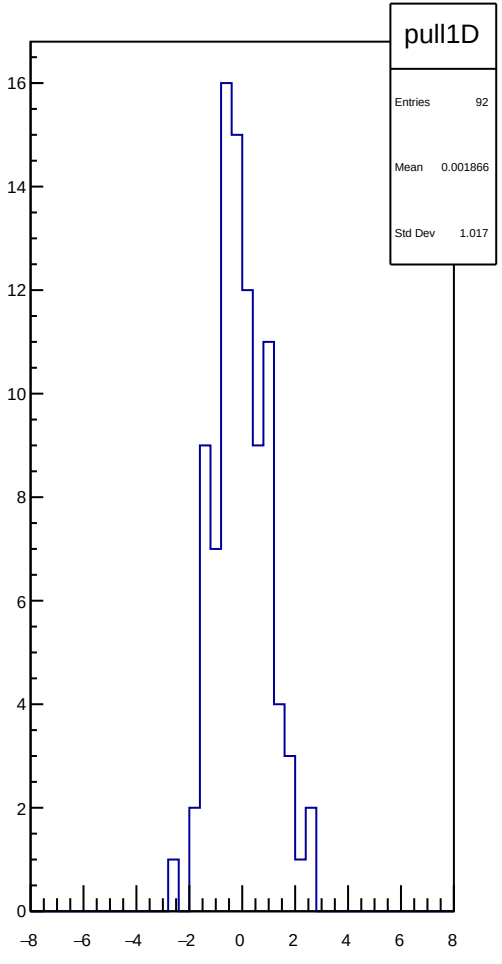

asym_atl_dd_atr_dd_avg_rms vs run
$\chi^2$ / ndf 9137 / 91
p0 4382 ± 3.355
5200
5000
4800
4600
4400
4200
4000
3800

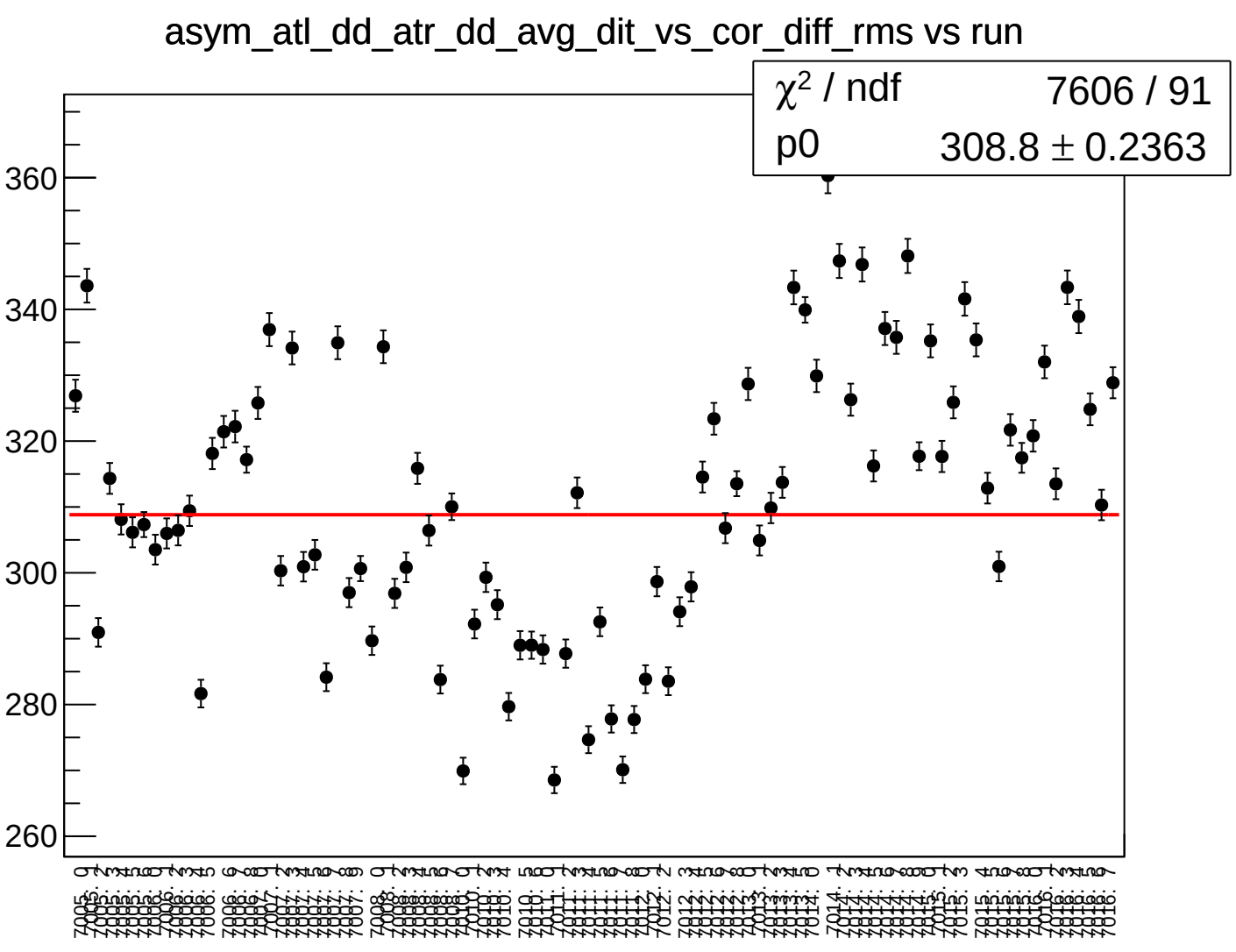

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 91
p0 −4.539e−14 ± 9.955e−14
pull
Entries 92
Mean 57.73
Std Dev 0

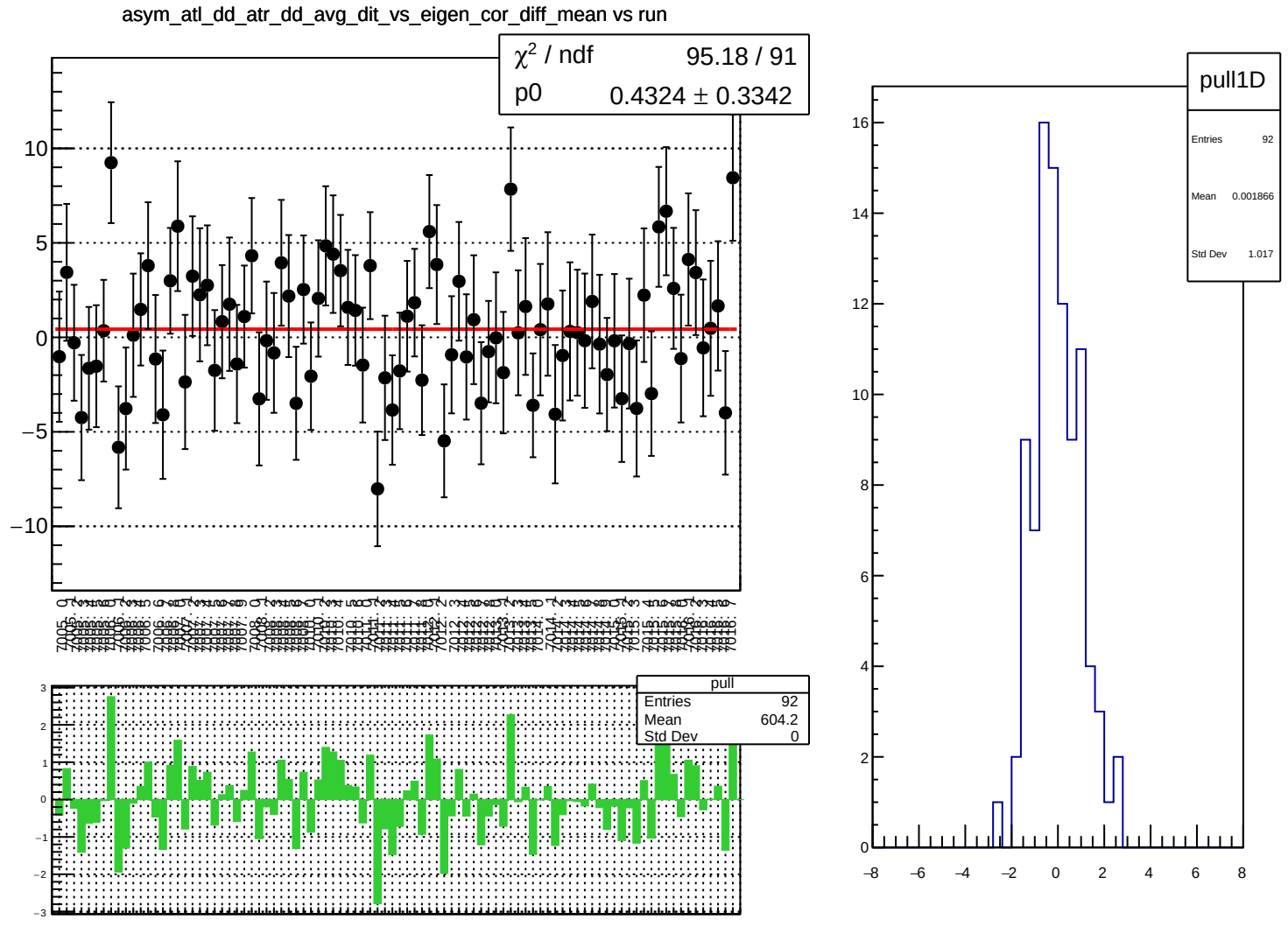

pull1D
Entries 92
Mean −0.04596
Std Dev 1.069

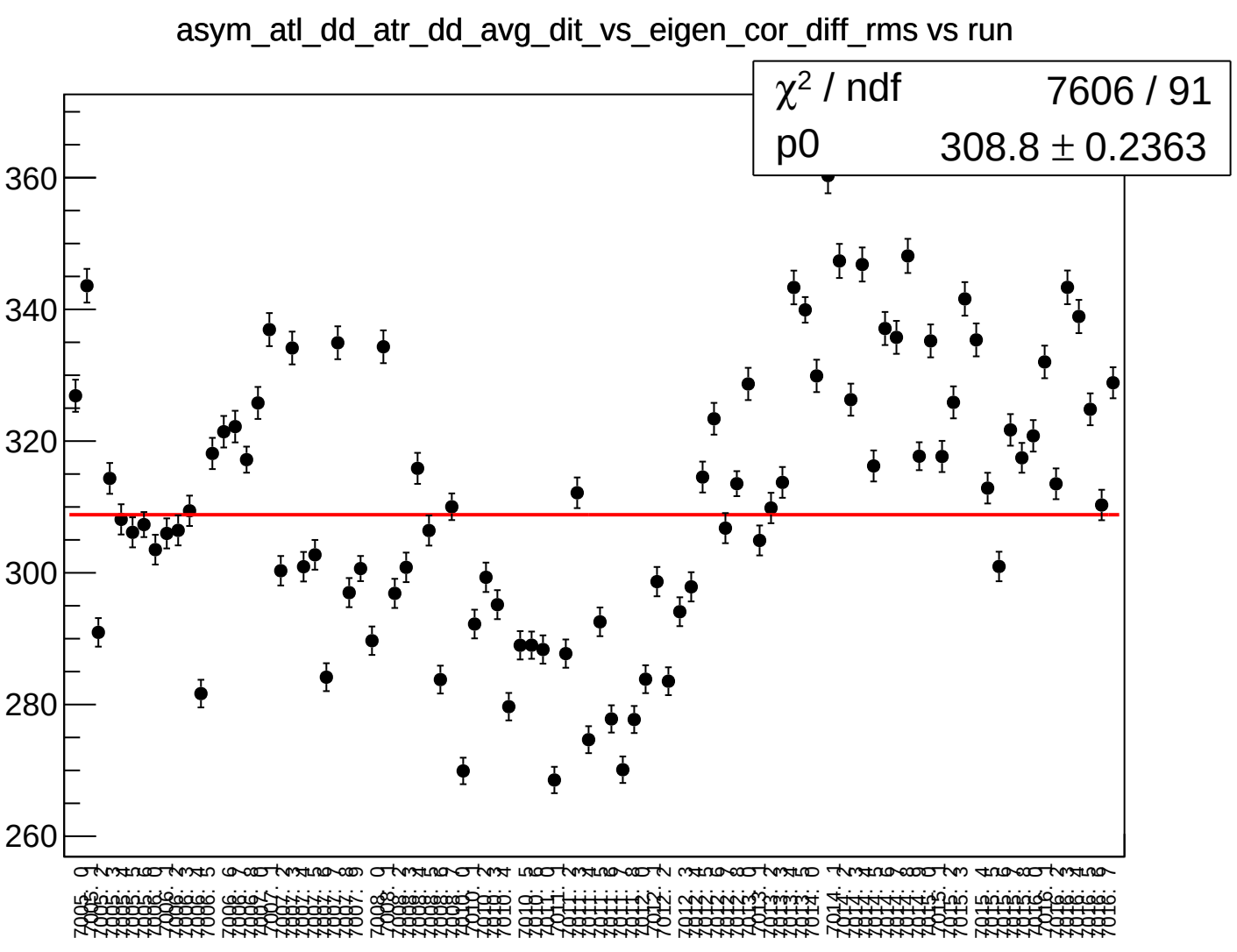

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 91
p0 5.187e−11 ± 7.039e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

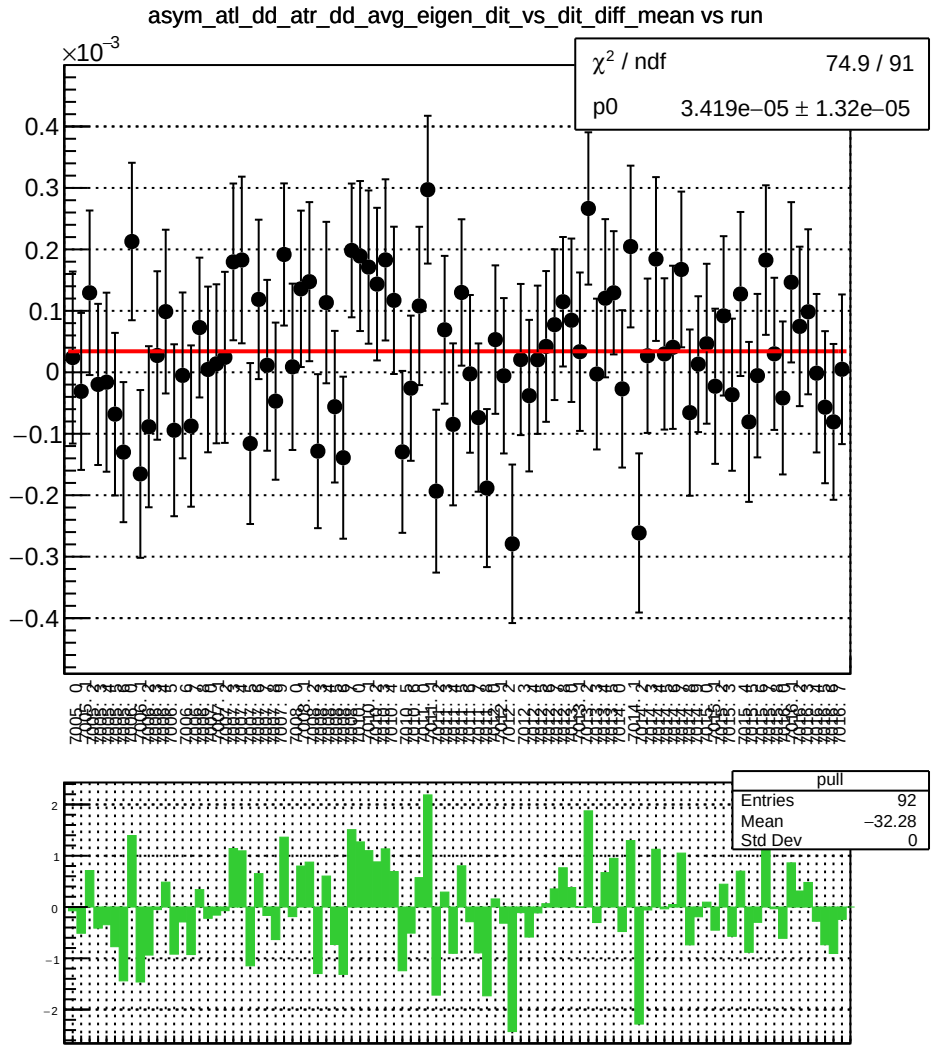

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.2
Std Dev 0

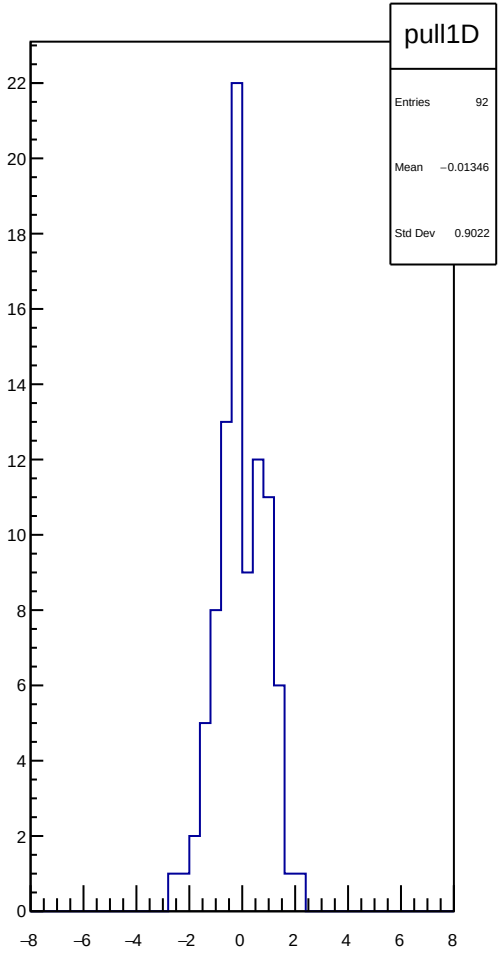

pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

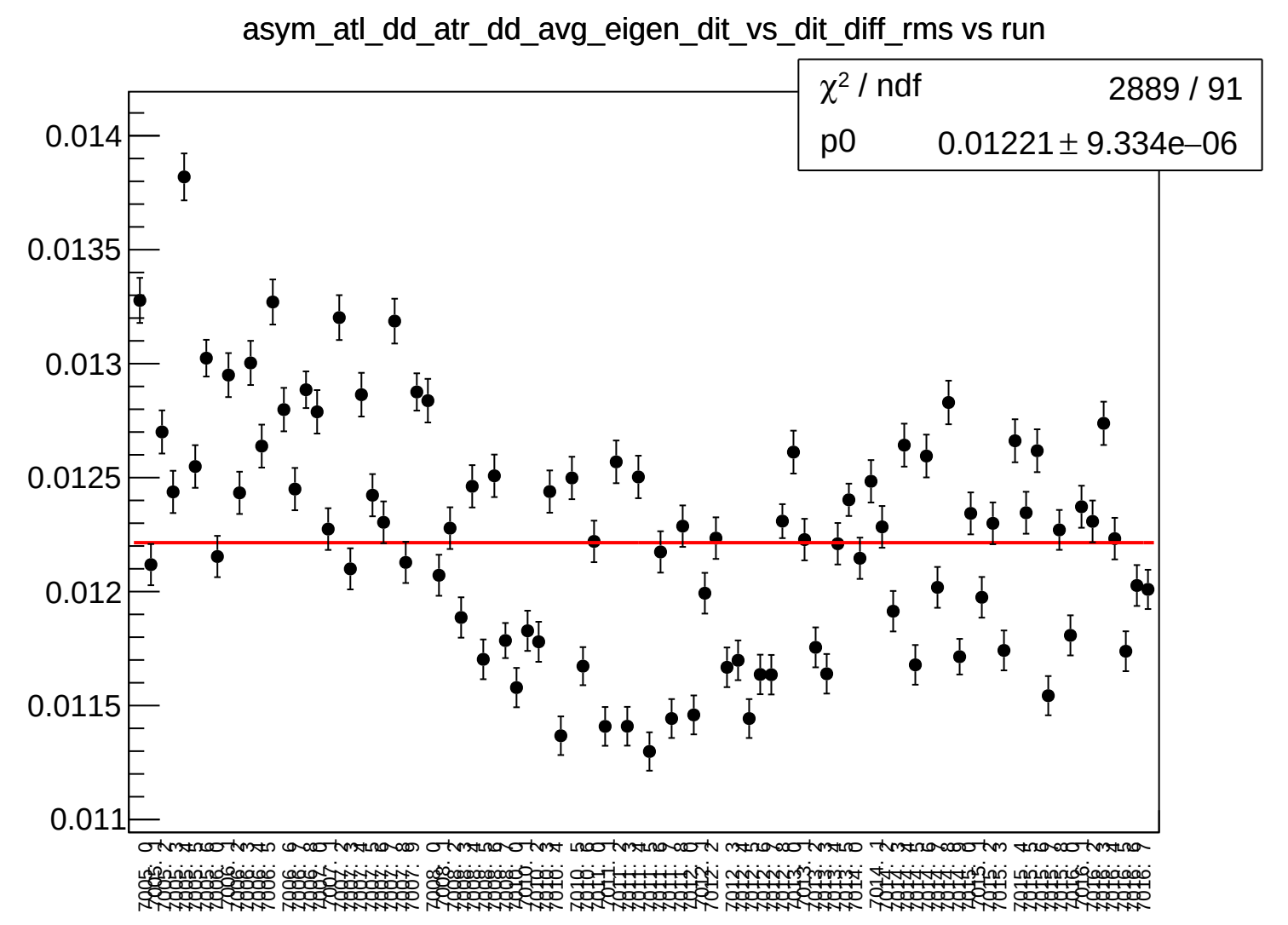

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

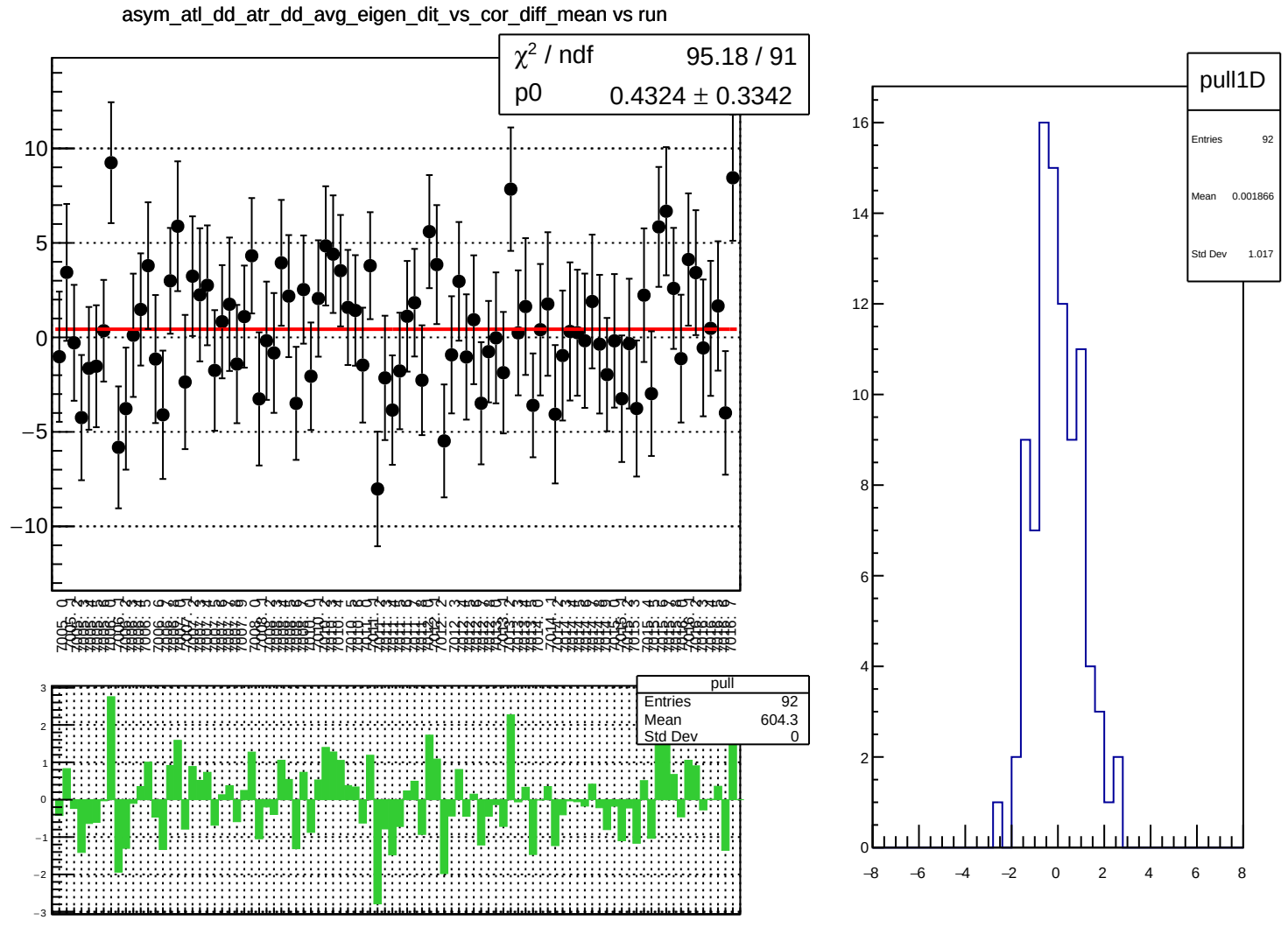

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.2
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

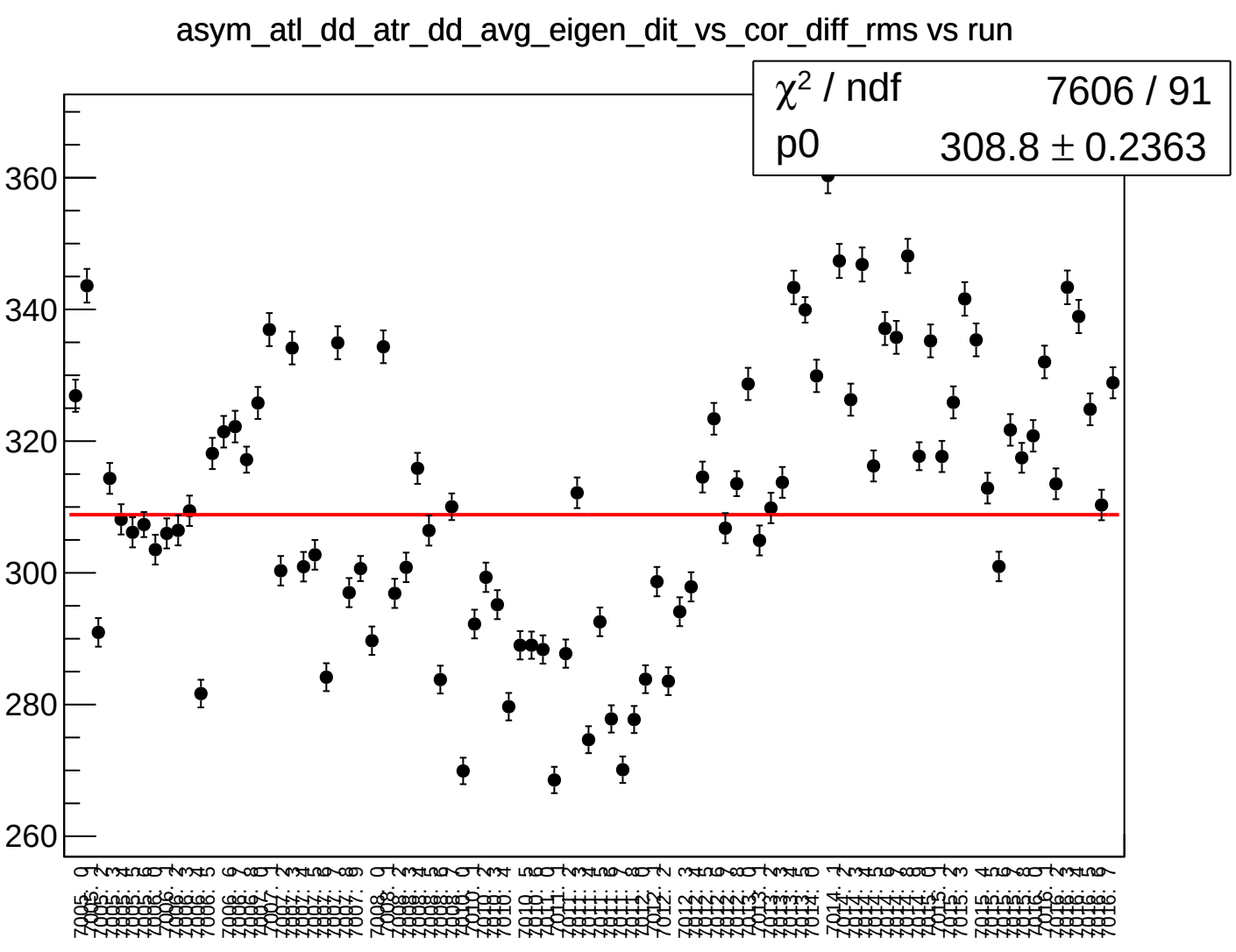

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

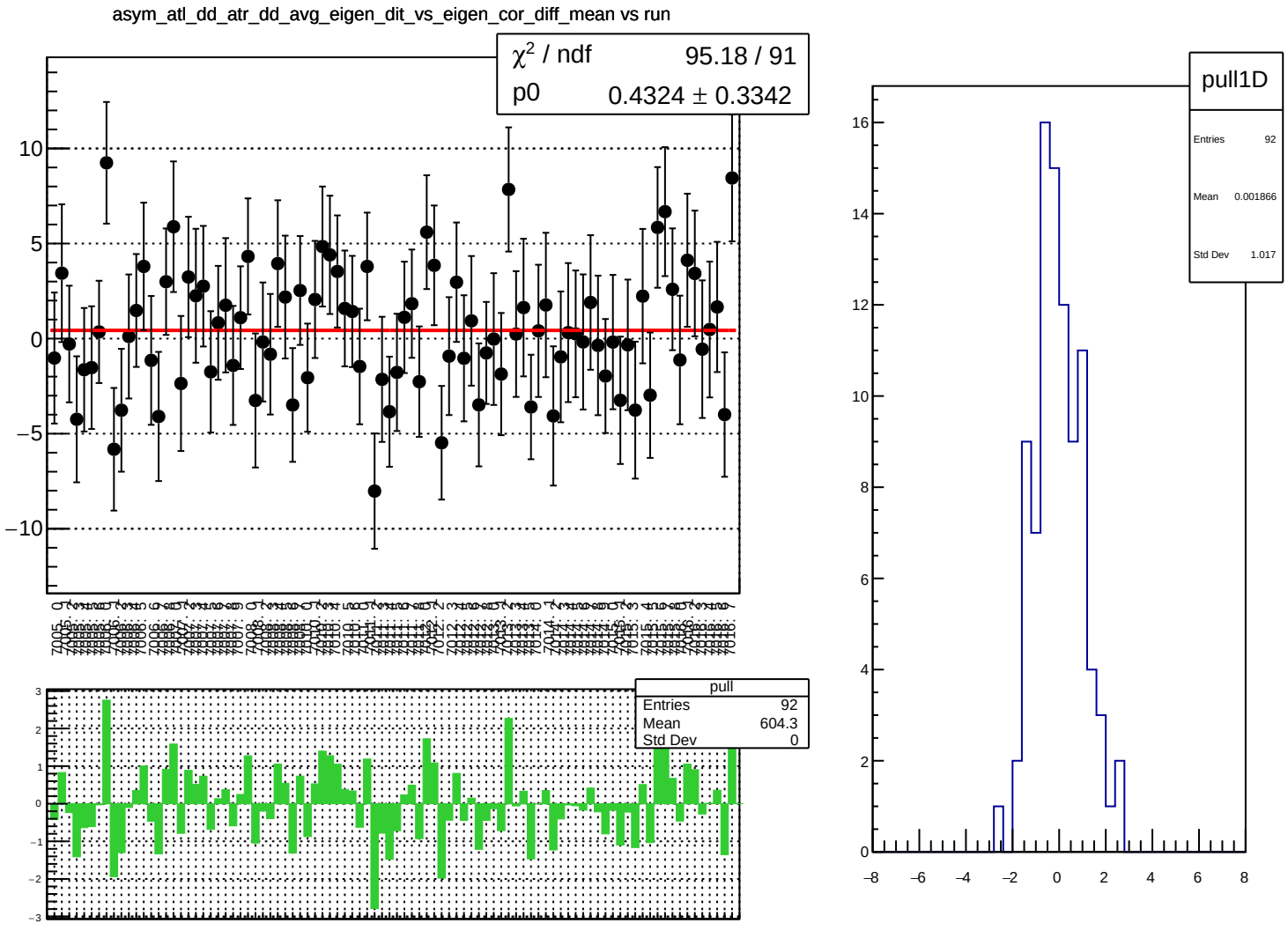

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.9 / 91
p0 3.419e−05 ± 1.32e−05
pull
Entries 92
Mean −32.28
Std Dev 0

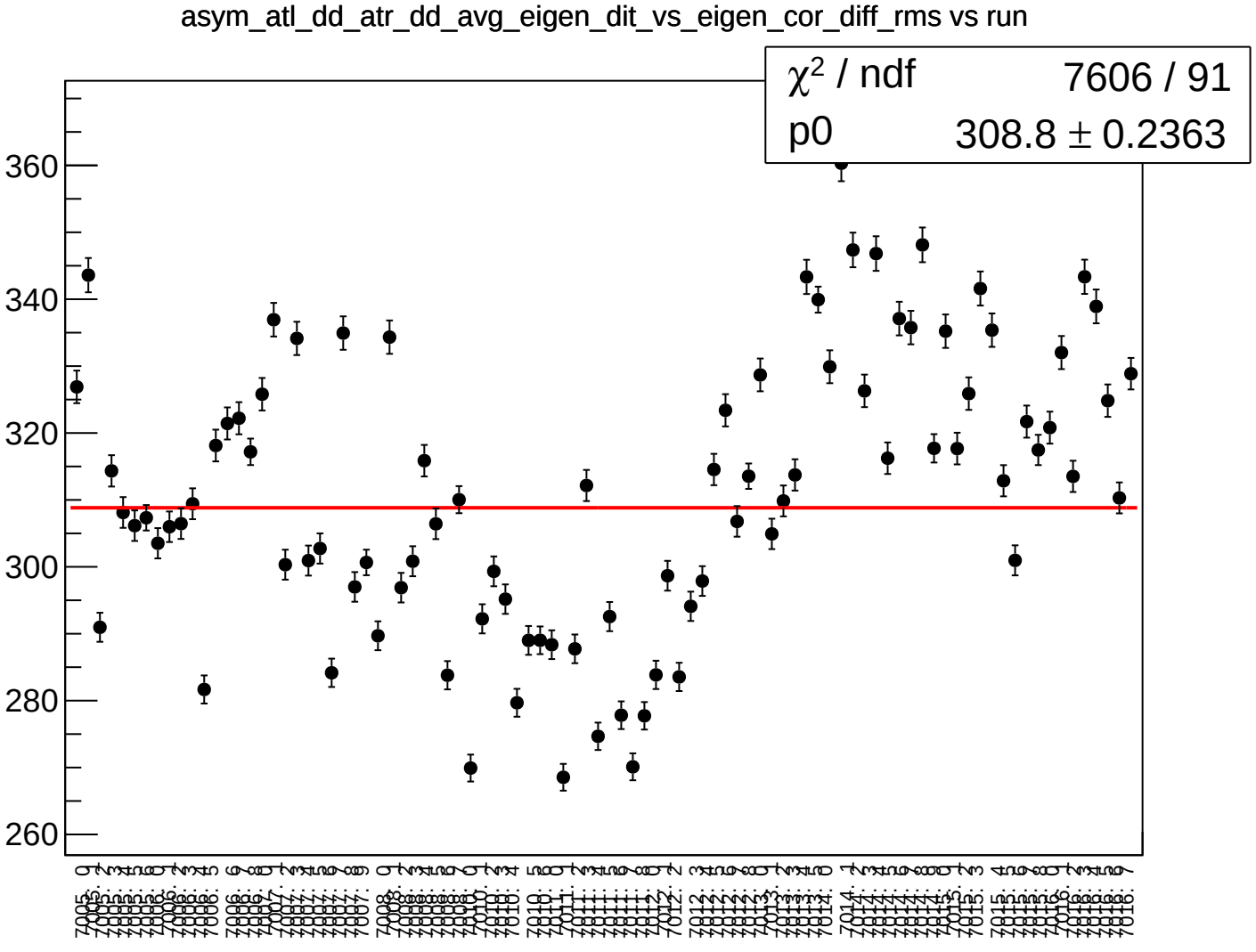

pull1D
Entries 92
Mean −0.01346
Std Dev 0.9022

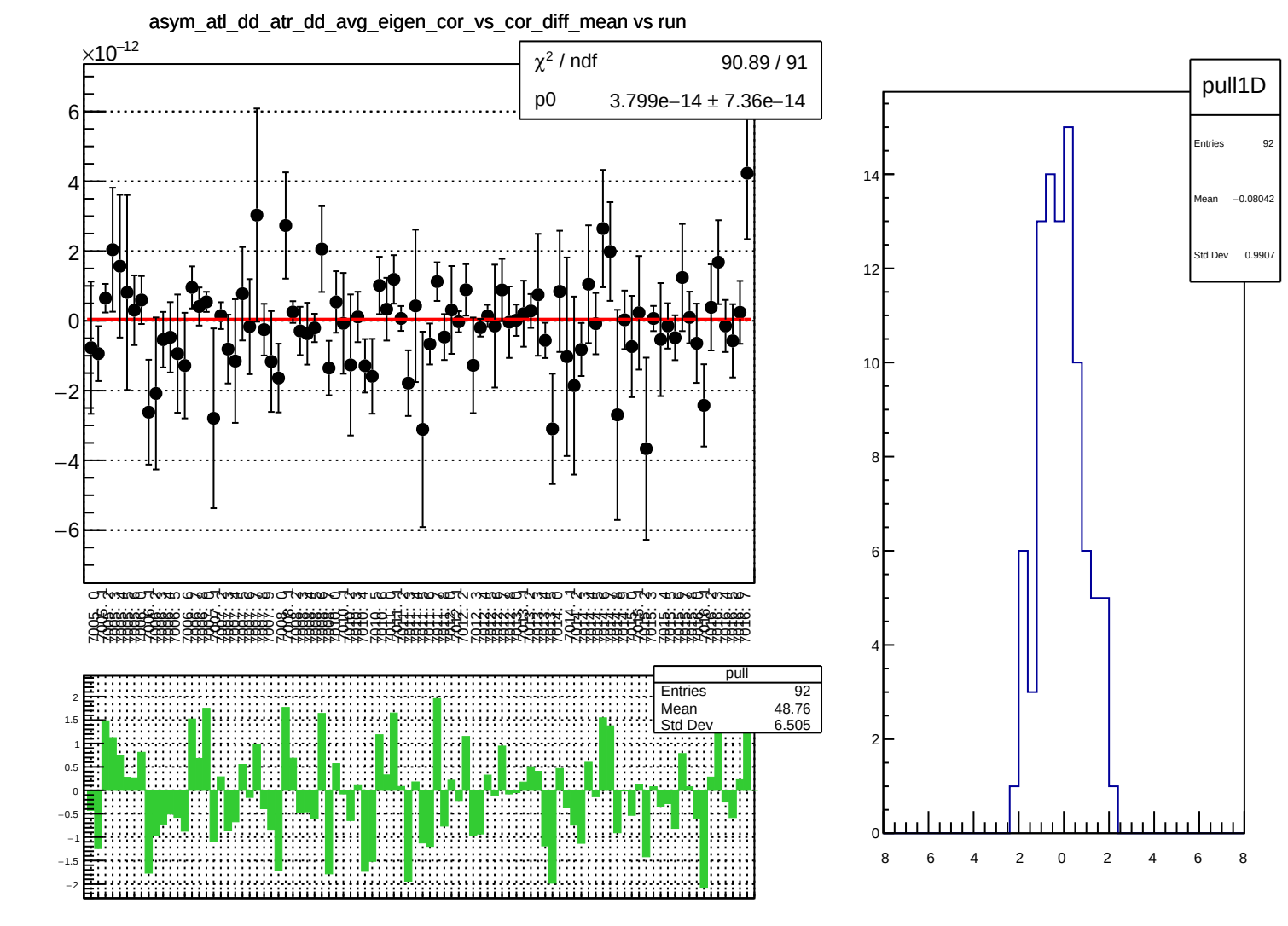

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2889 / 91
p0 0.01221 ± 9.334e−06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

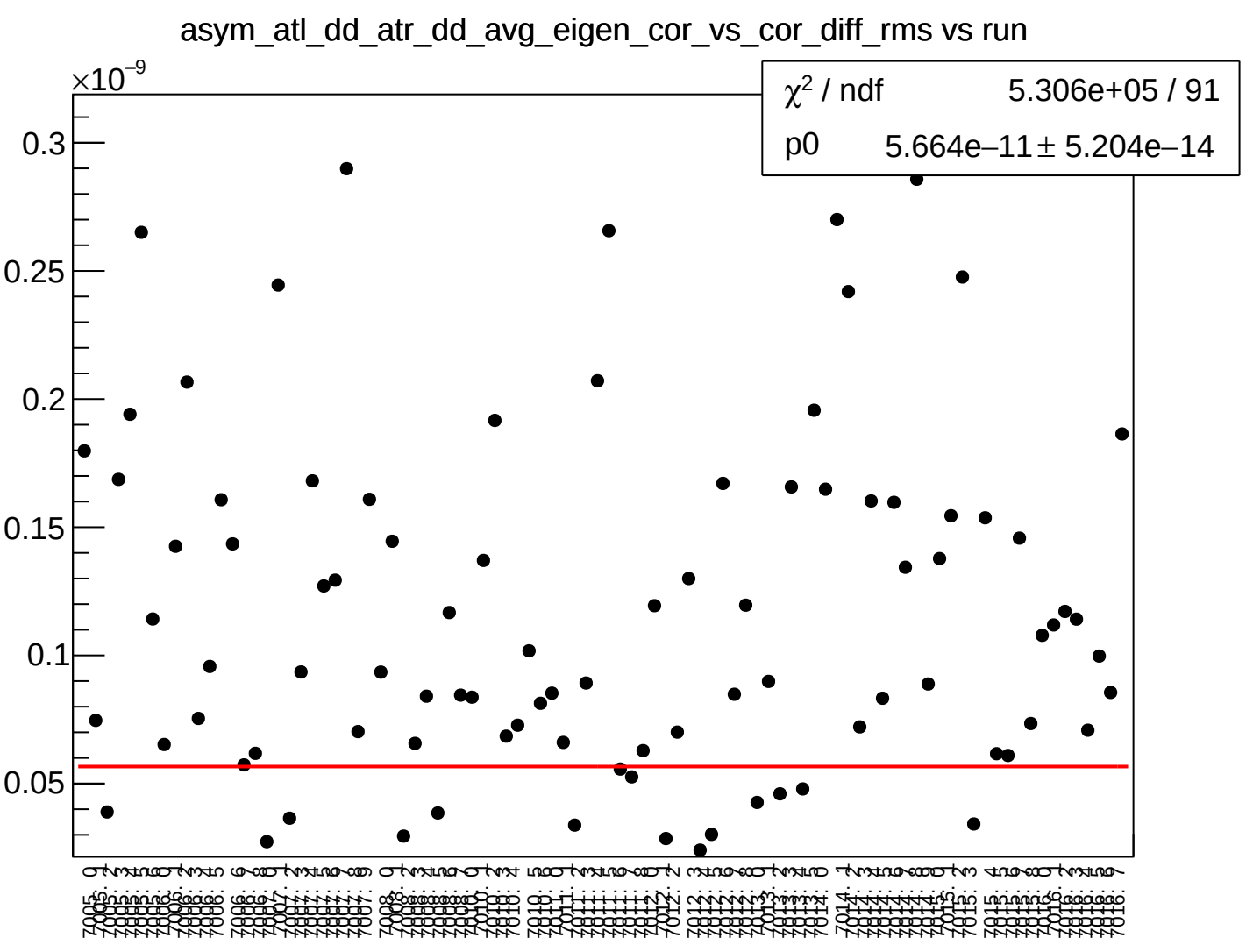

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.3
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

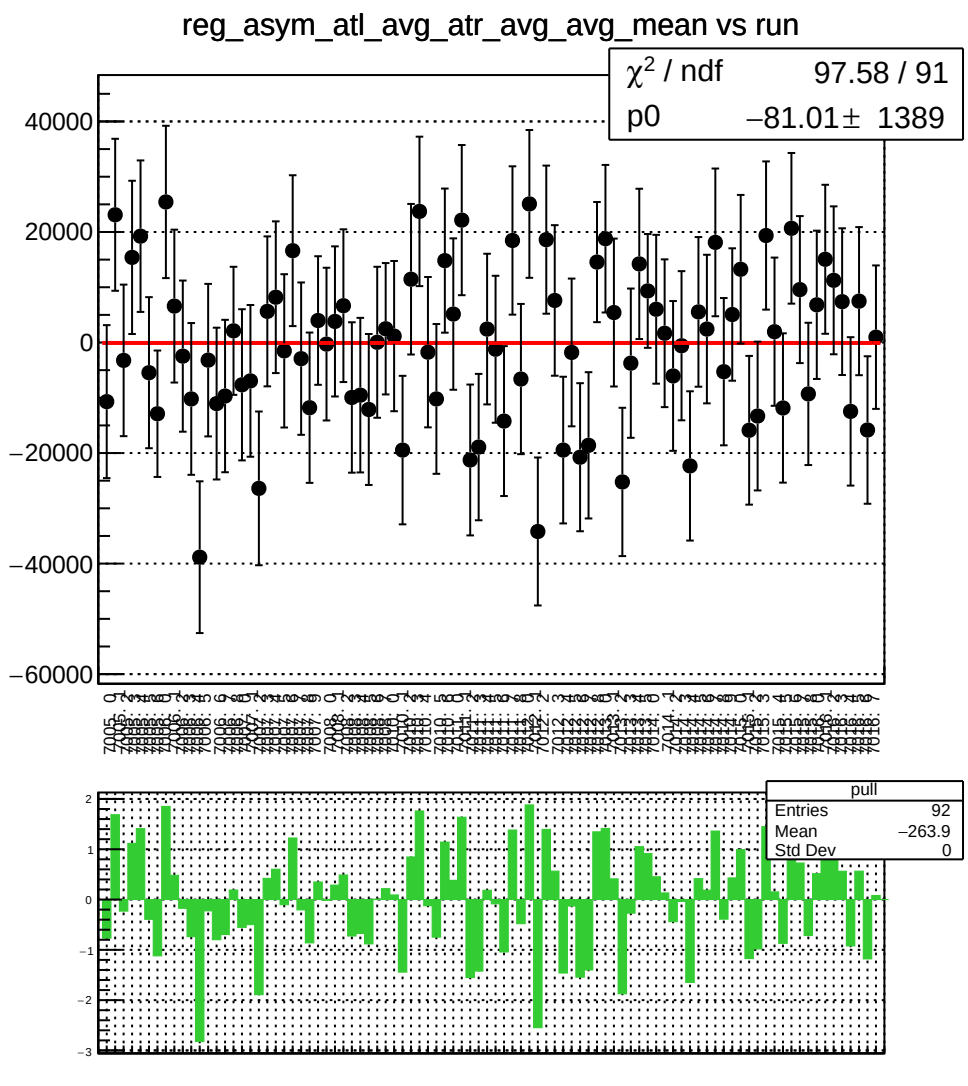

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

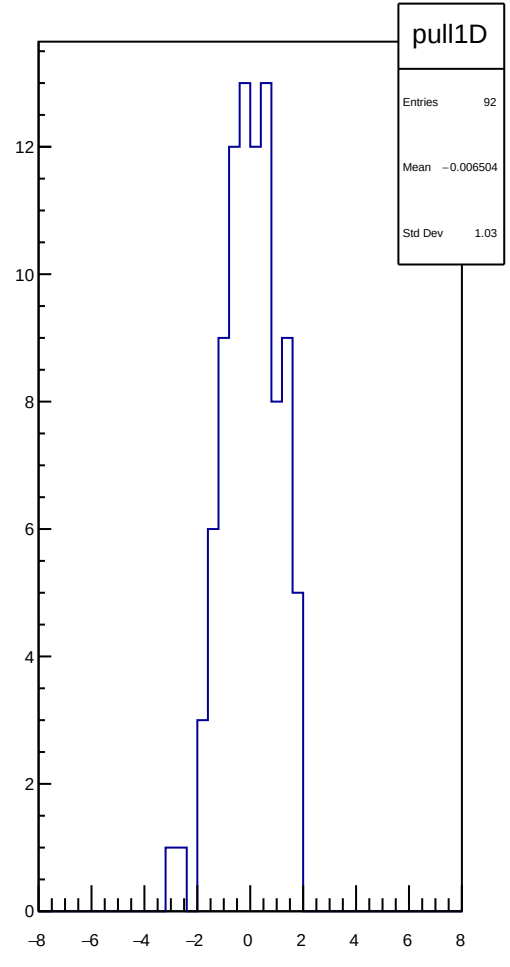

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.3
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

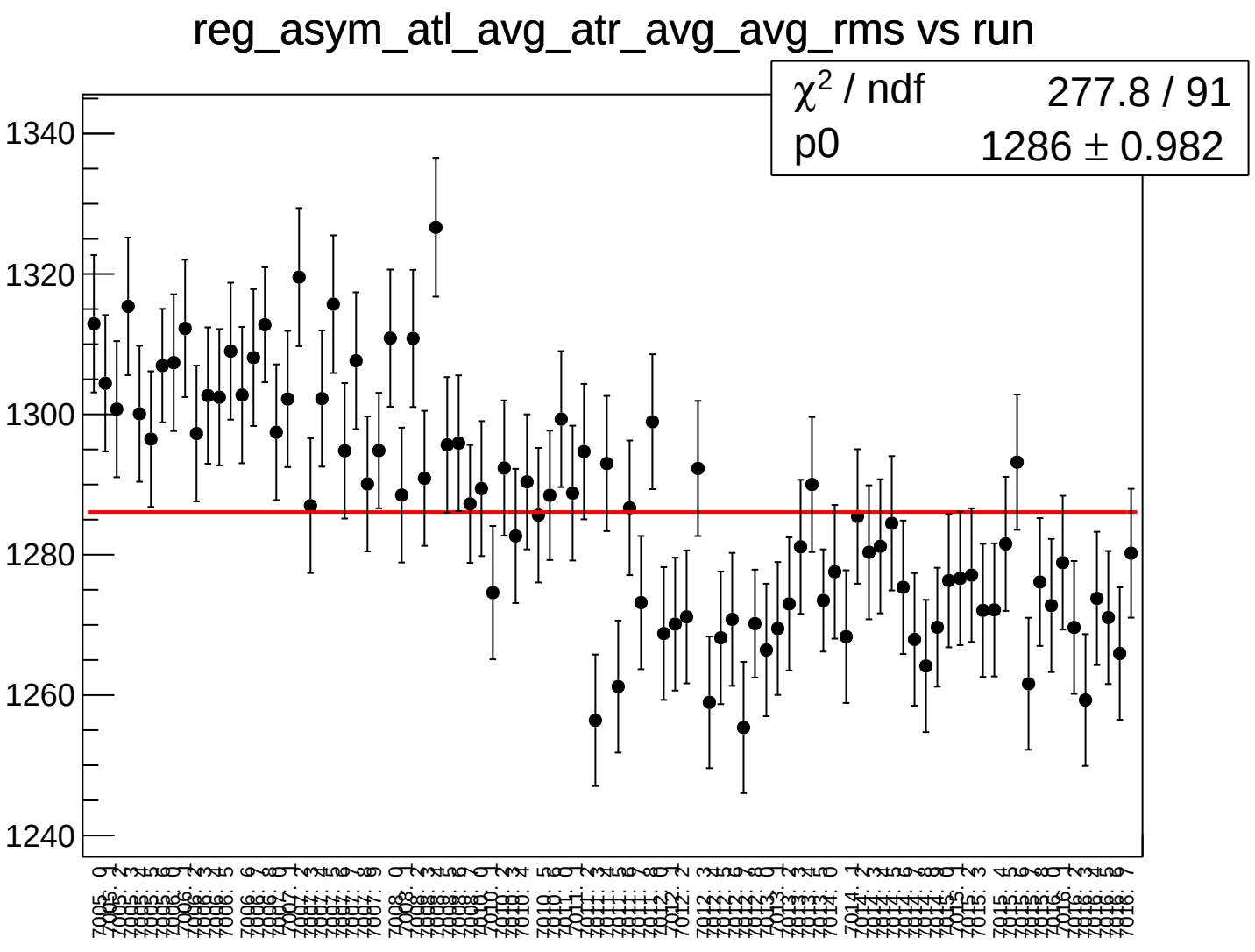

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

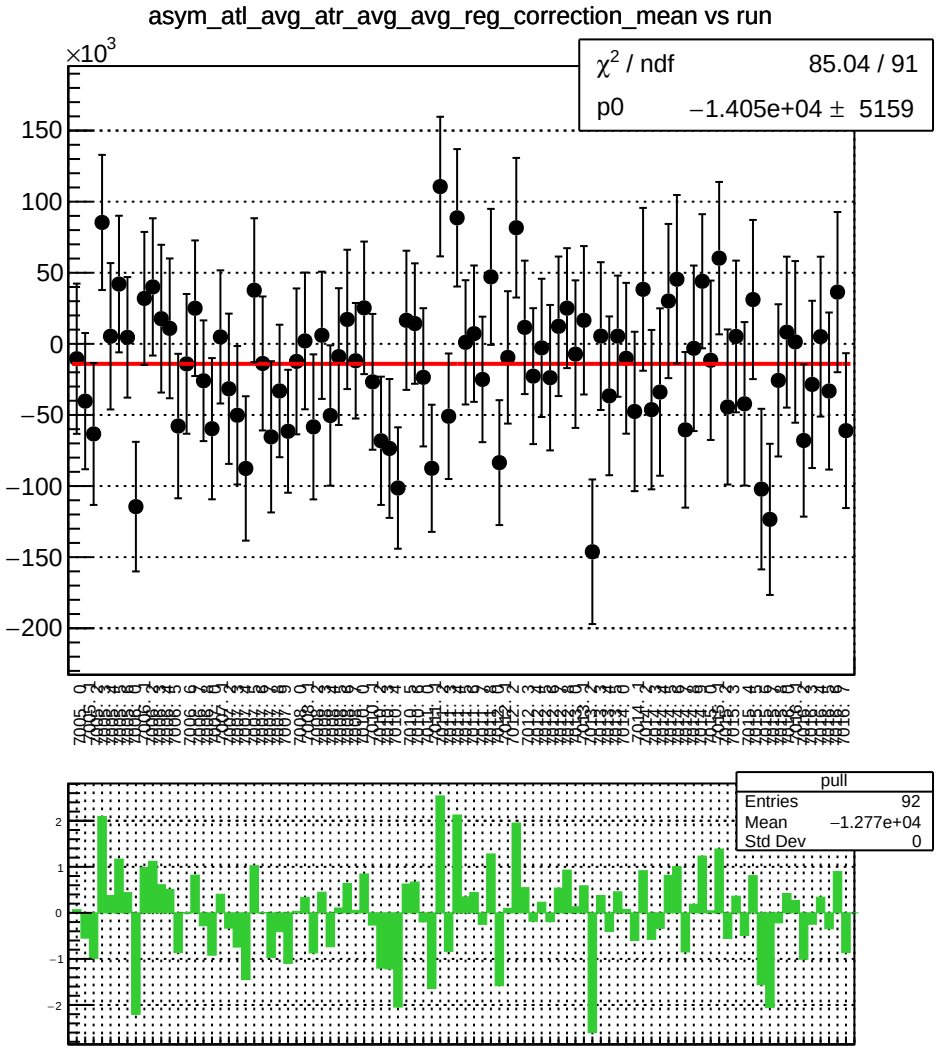

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.89 / 91
p0 3.799e−14 ± 7.36e−14
pull
Entries 92
Mean 48.76
Std Dev 6.505
pull1D
Entries 92
Mean −0.08042
Std Dev 0.9907

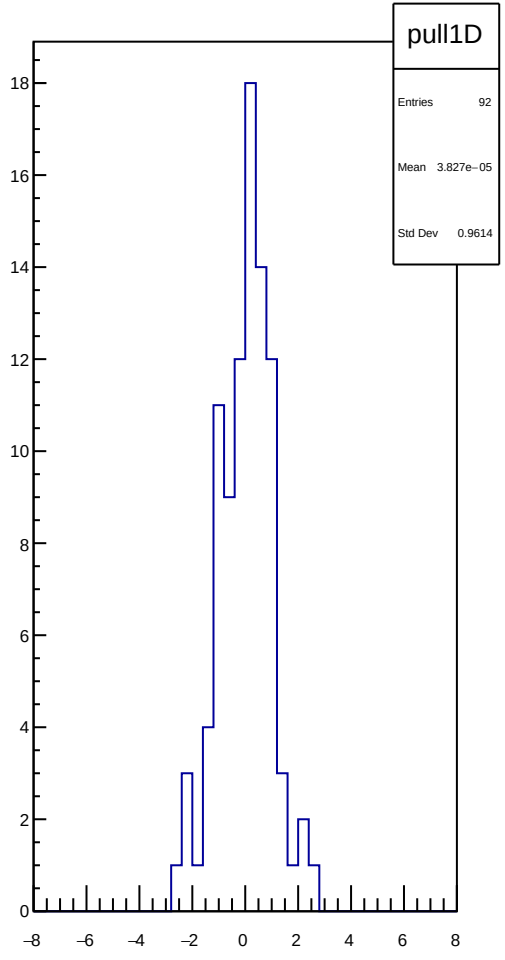

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.306e+05 / 91
p0 5.664e−11 ± 5.204e−14
0.3
0.25
0.2
0.15
0.1
0.05

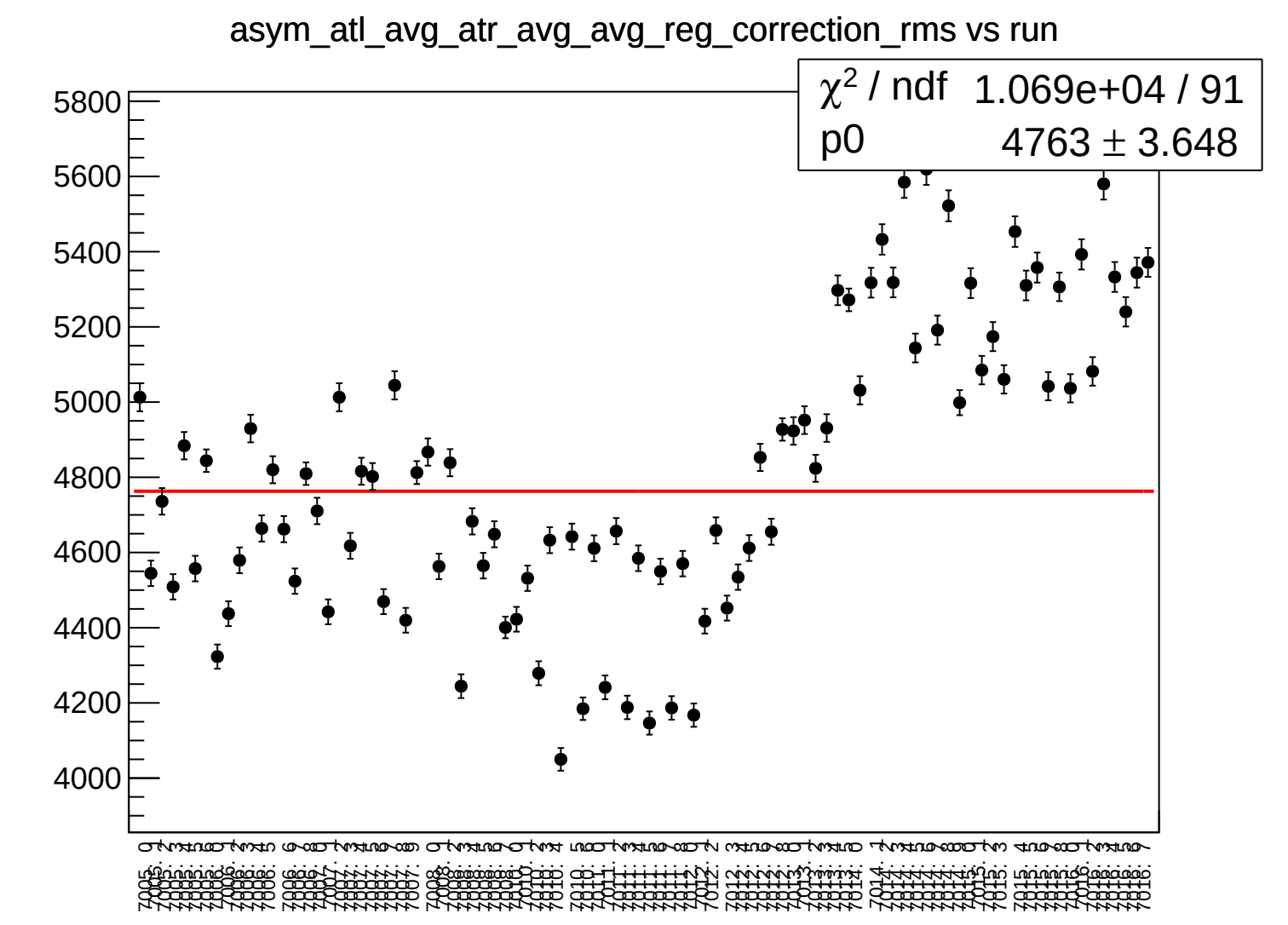

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 97.58 / 91
p0 −81.01± 1389
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −263.9
Std Dev 0
2
1
0
−1
−2
−3

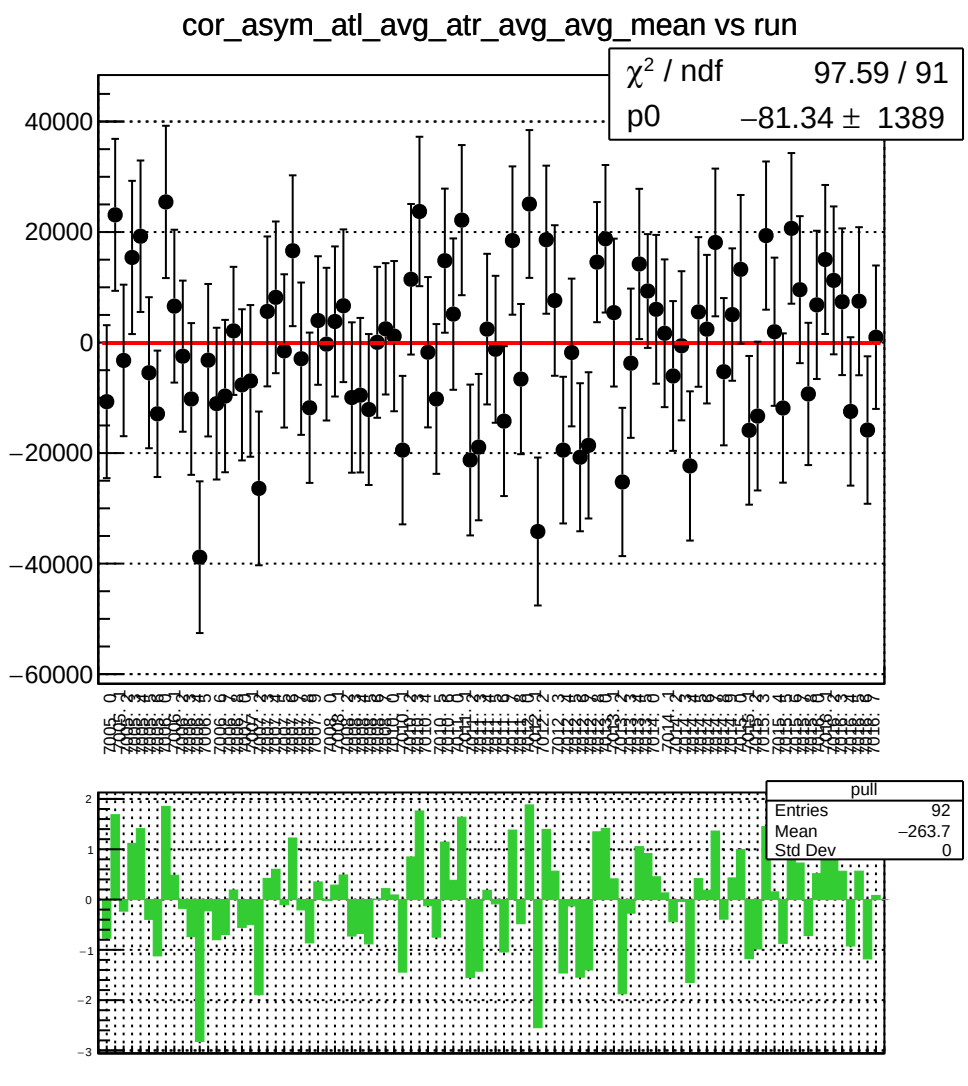

pull1D
Entries 92
Mean −0.006504
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

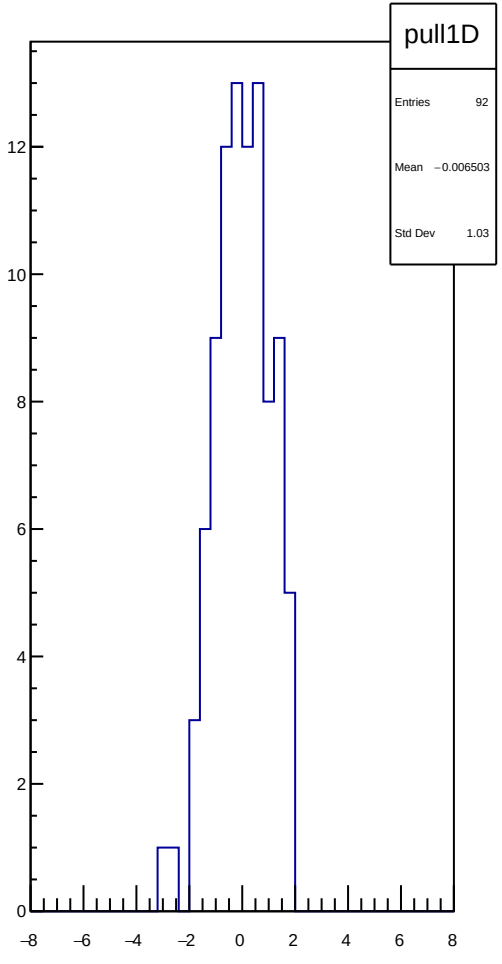

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 277.8 / 91
p0 1286 ± 0.982
1340
1320
1300
1280
1260
1240

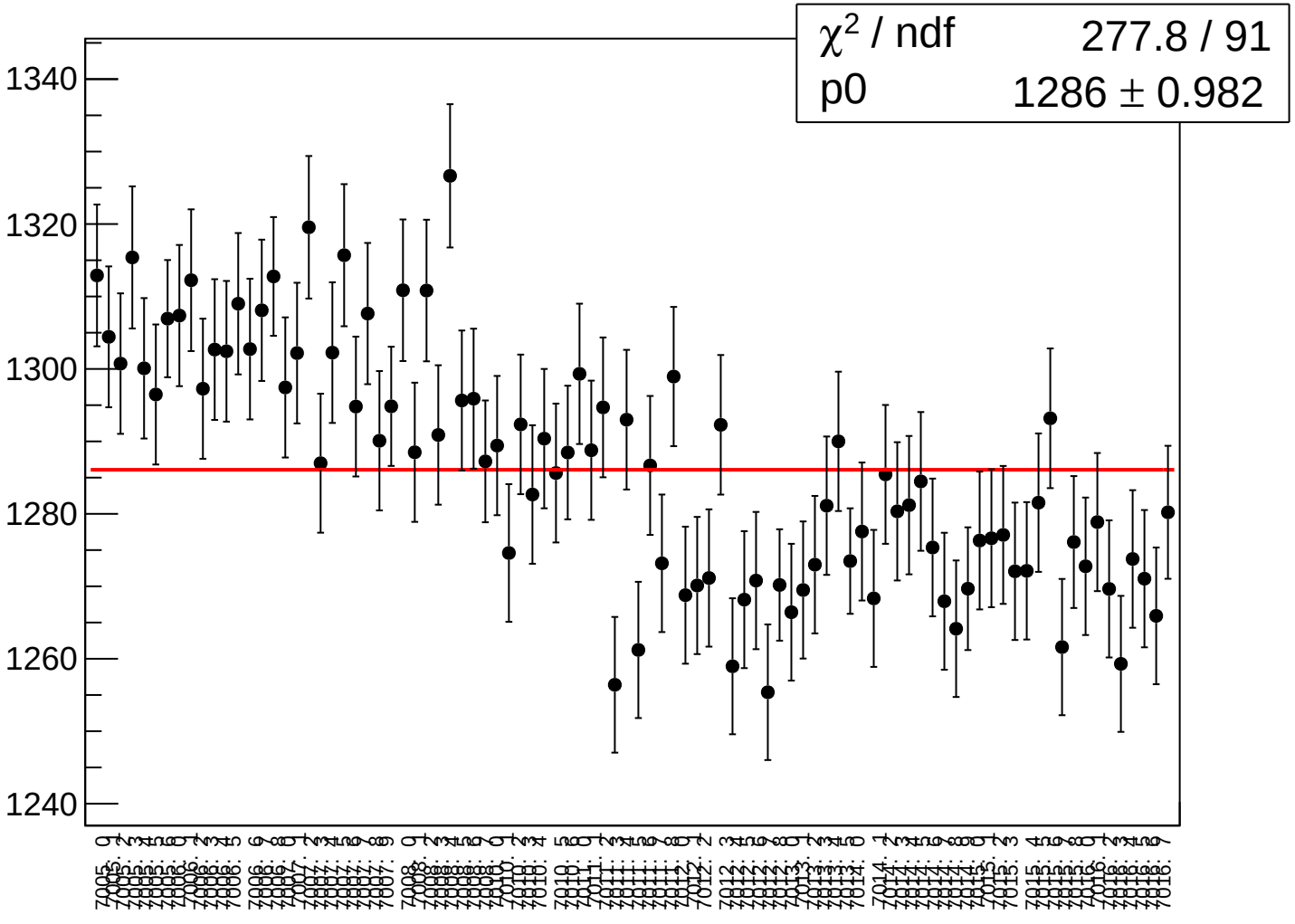

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.04 / 91
p0 −1.405e+04 ± 5159
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −1.277e+04
Std Dev 0
2
1
0
−1
−2

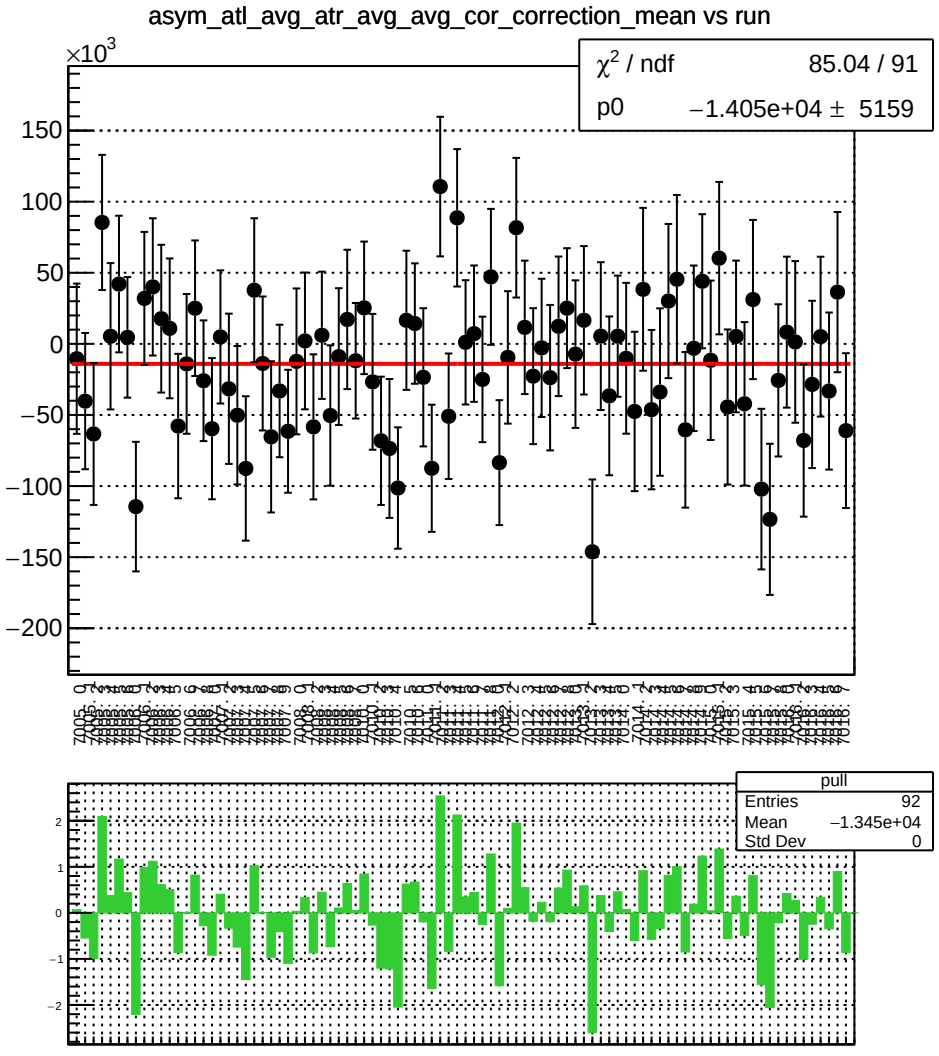

pull1D
Entries 92
Mean 3.827e−05
Std Dev 0.9614
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

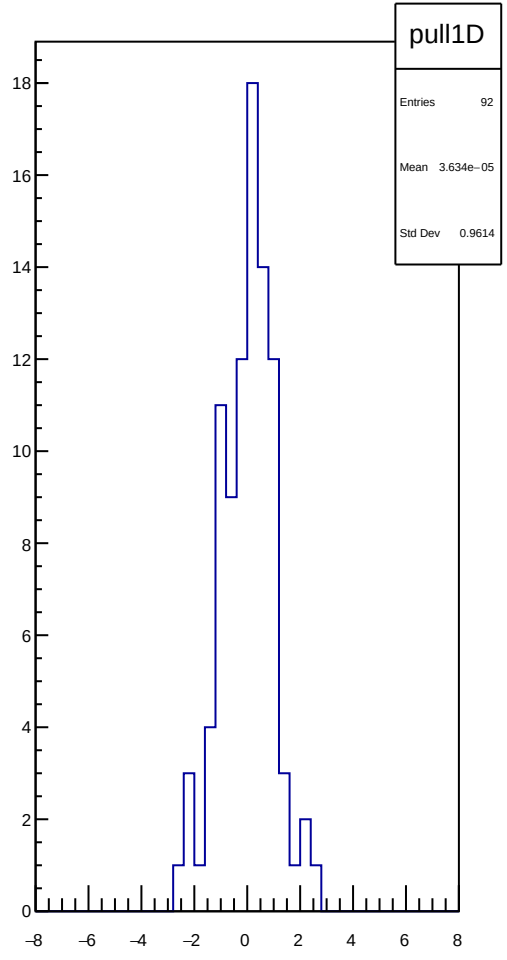

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.069e+04 / 91
p0 4763 ± 3.648
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

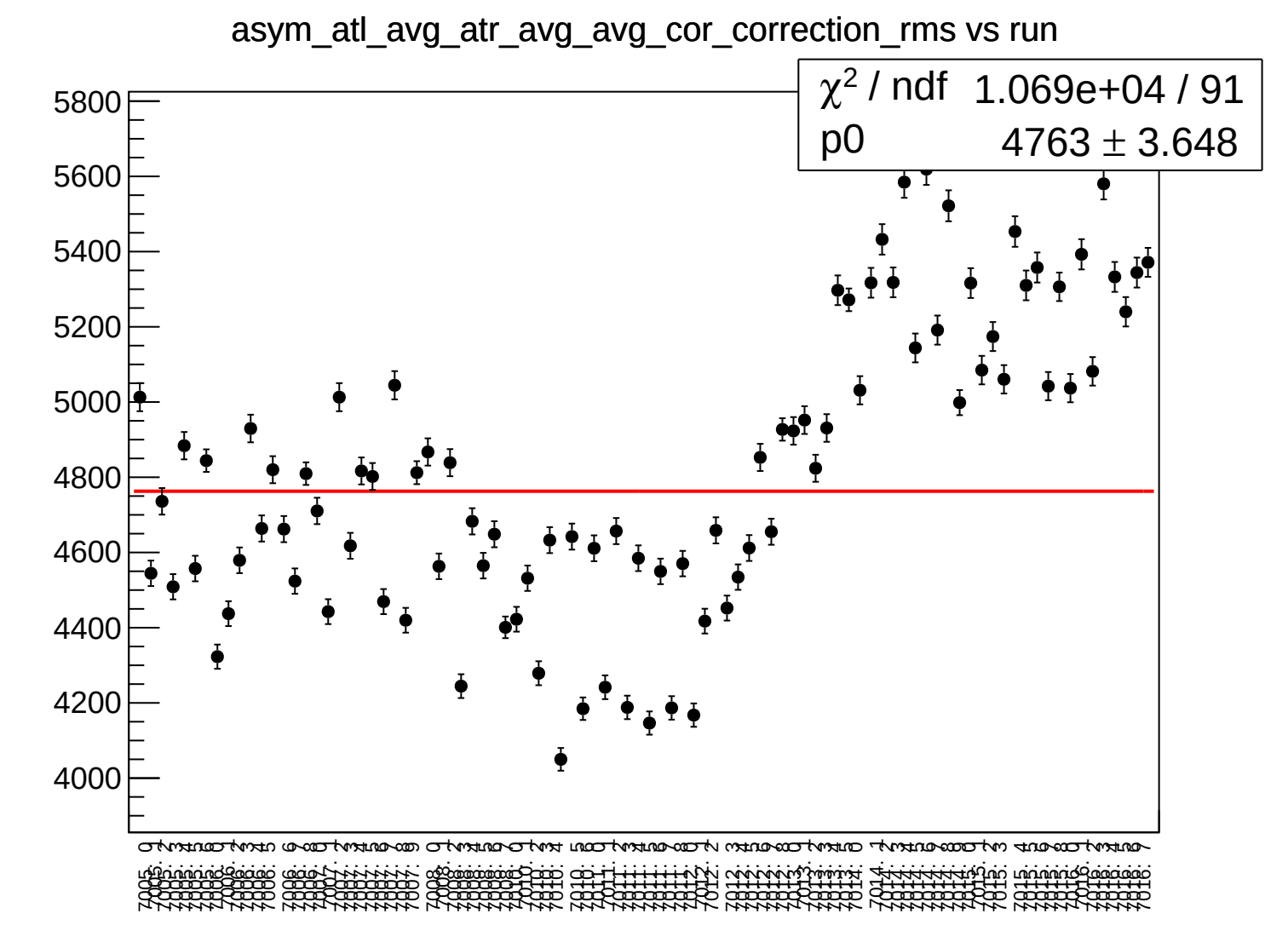

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 97.59 / 91
p0 −81.34 ± 1389
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −263.7
Std Dev 0
2
1
0
−1
−2
−3

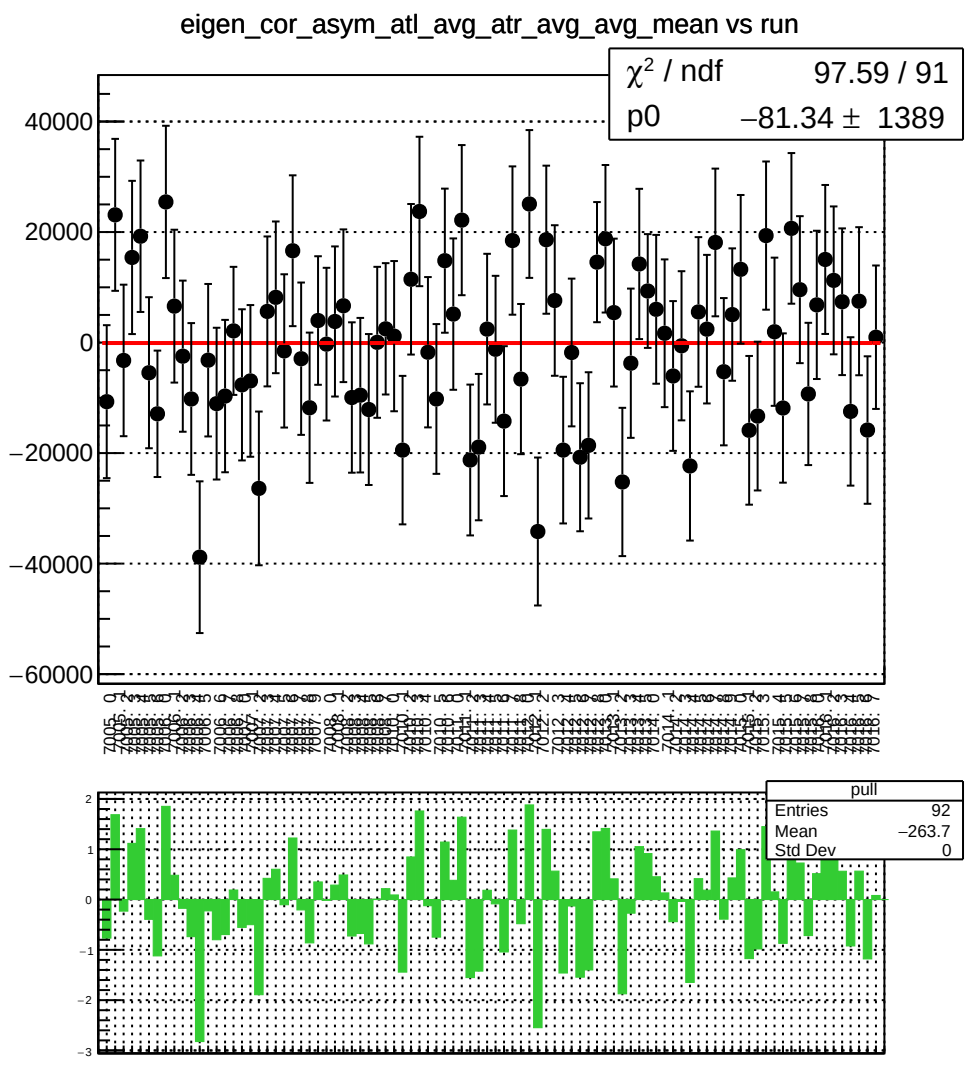

pull1D
Entries 92
Mean −0.006503
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

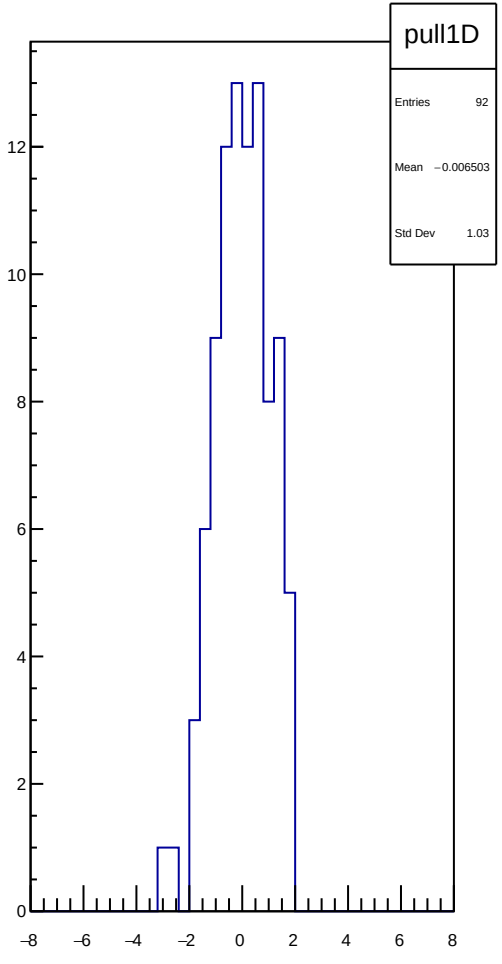

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 277.8 / 91
p0 1286 ± 0.982
1340
1320
1300
1280
1260
1240

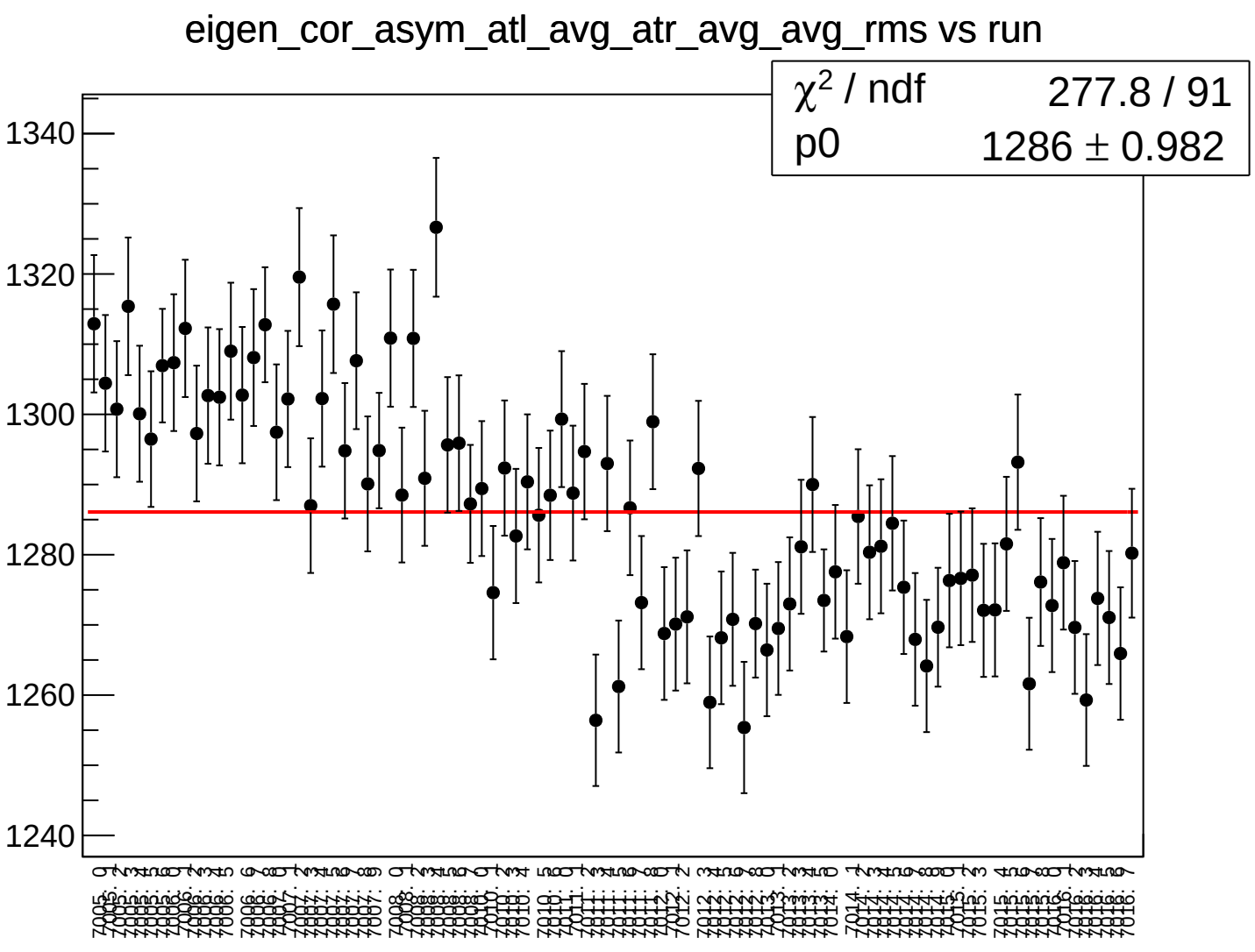

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.04 / 91
p0 −1.405e+04 ± 5159
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −1.345e+04
Std Dev 0
2
1
0
−1
−2

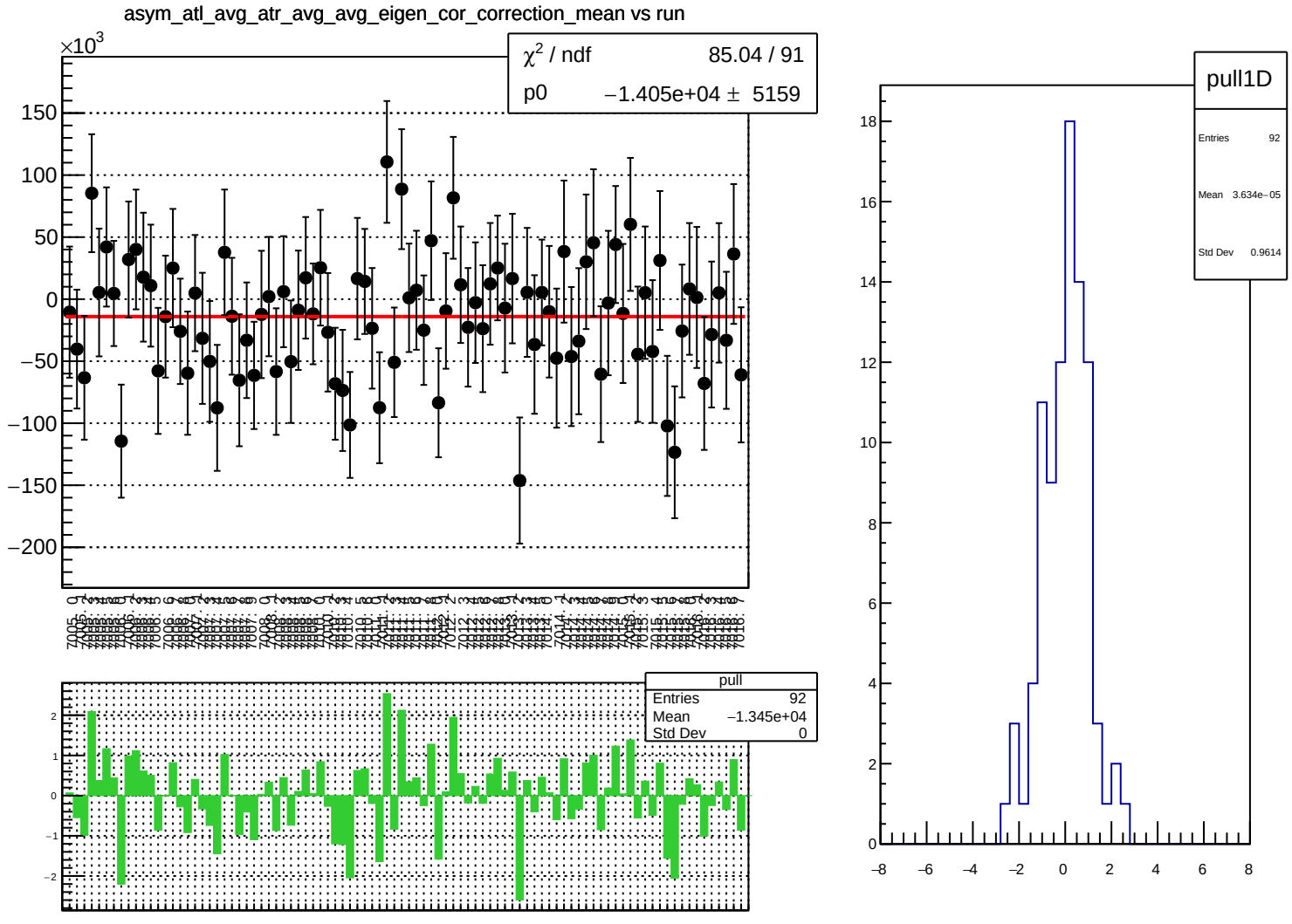

pull1D
Entries 92
Mean 3.634e−05
Std Dev 0.9614
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

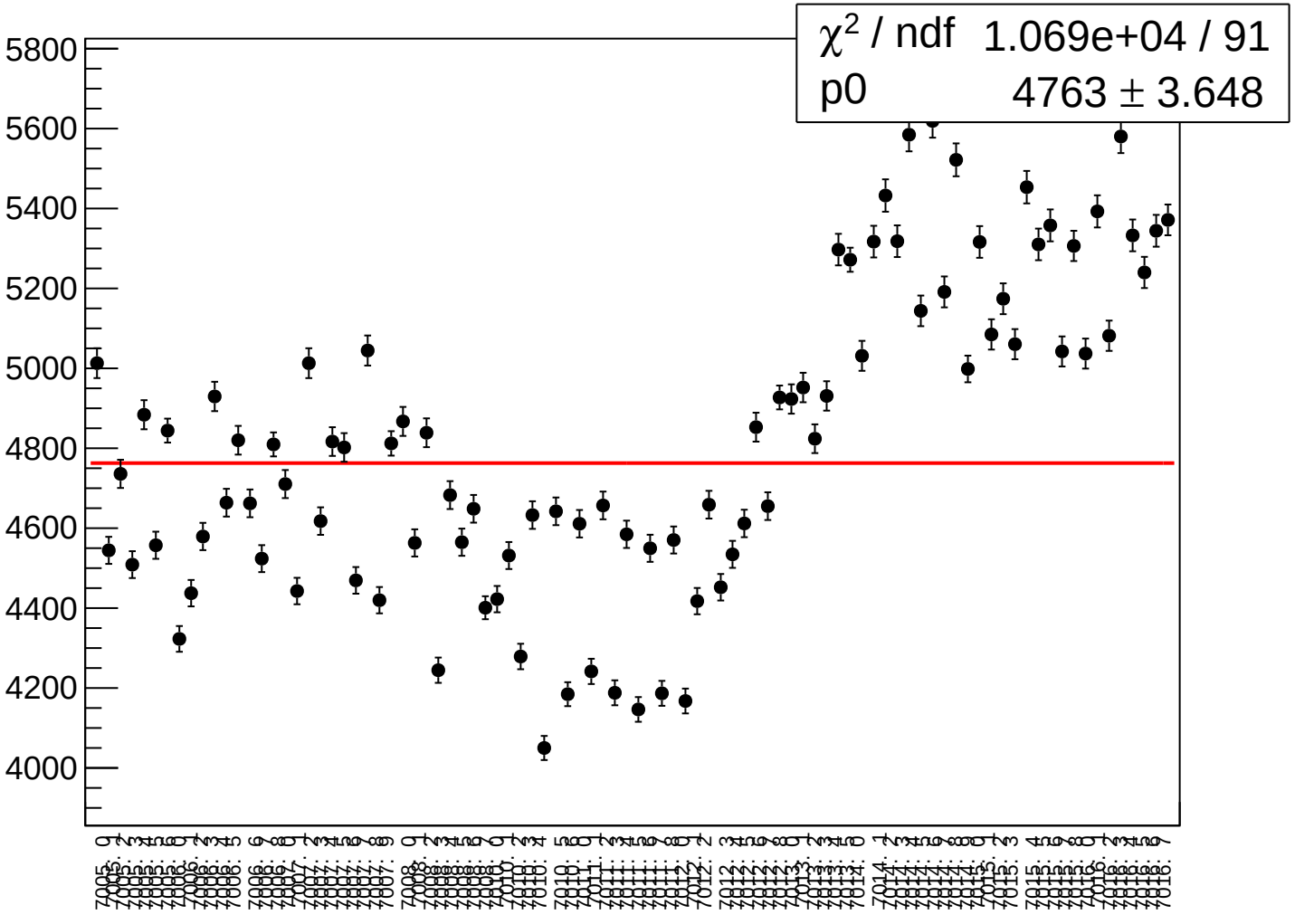

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.069e+04 / 91
p0 4763 ± 3.648
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

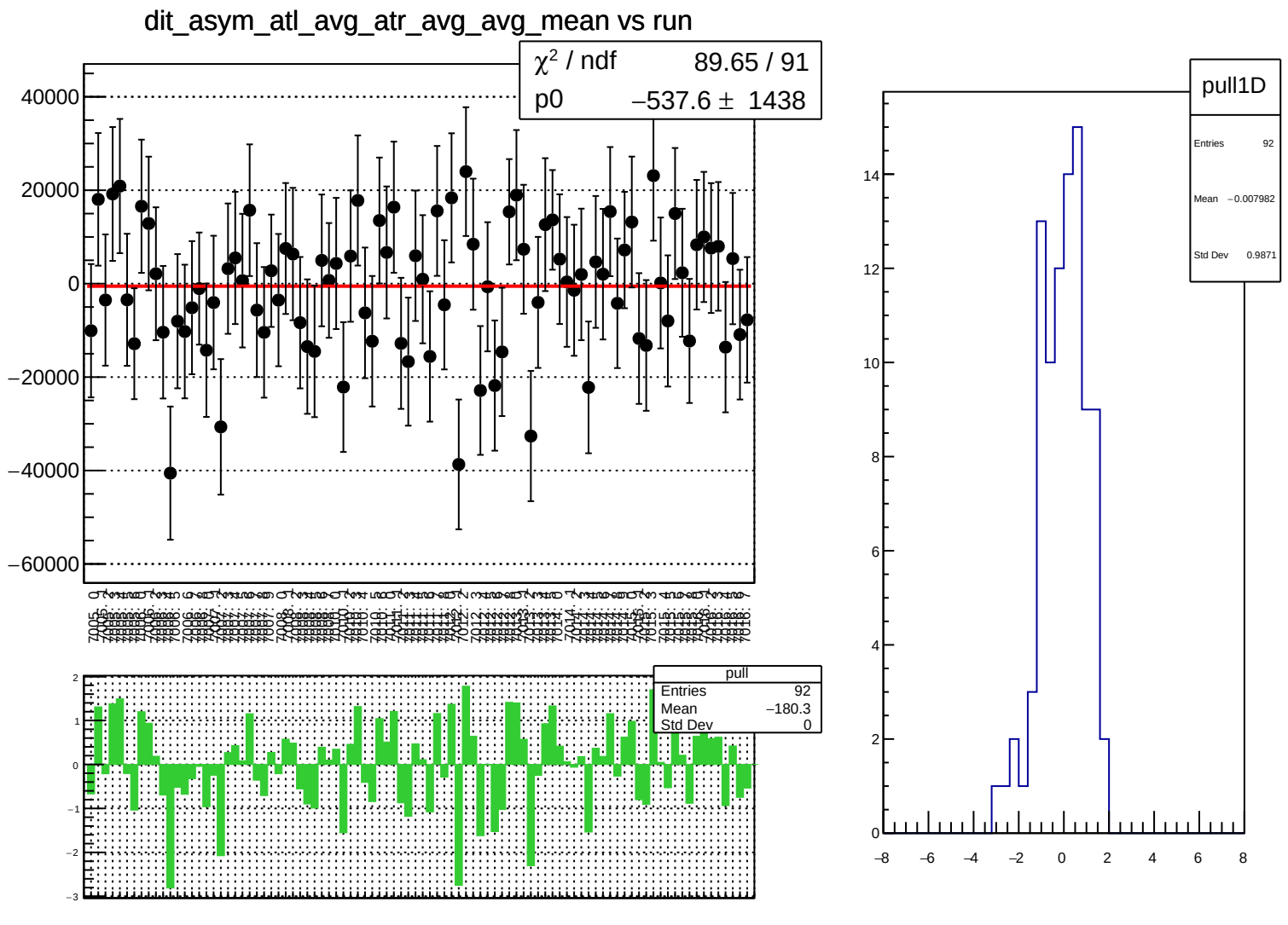

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 97.59 / 91
p0 −81.34 ± 1389
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −263.7
Std Dev 0
2
1
0
−1
−2
−3

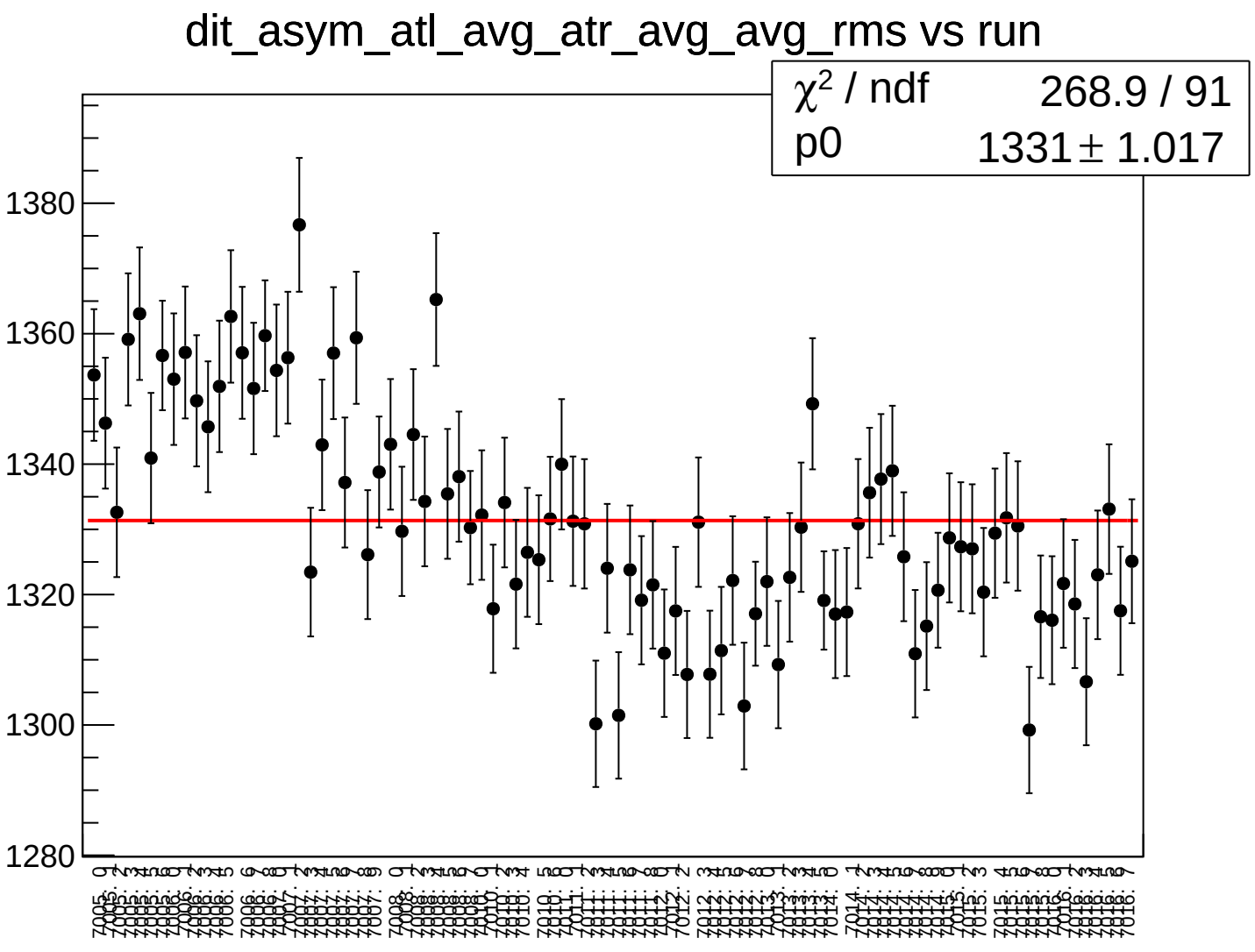

pull1D
Entries 92
Mean −0.006503
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

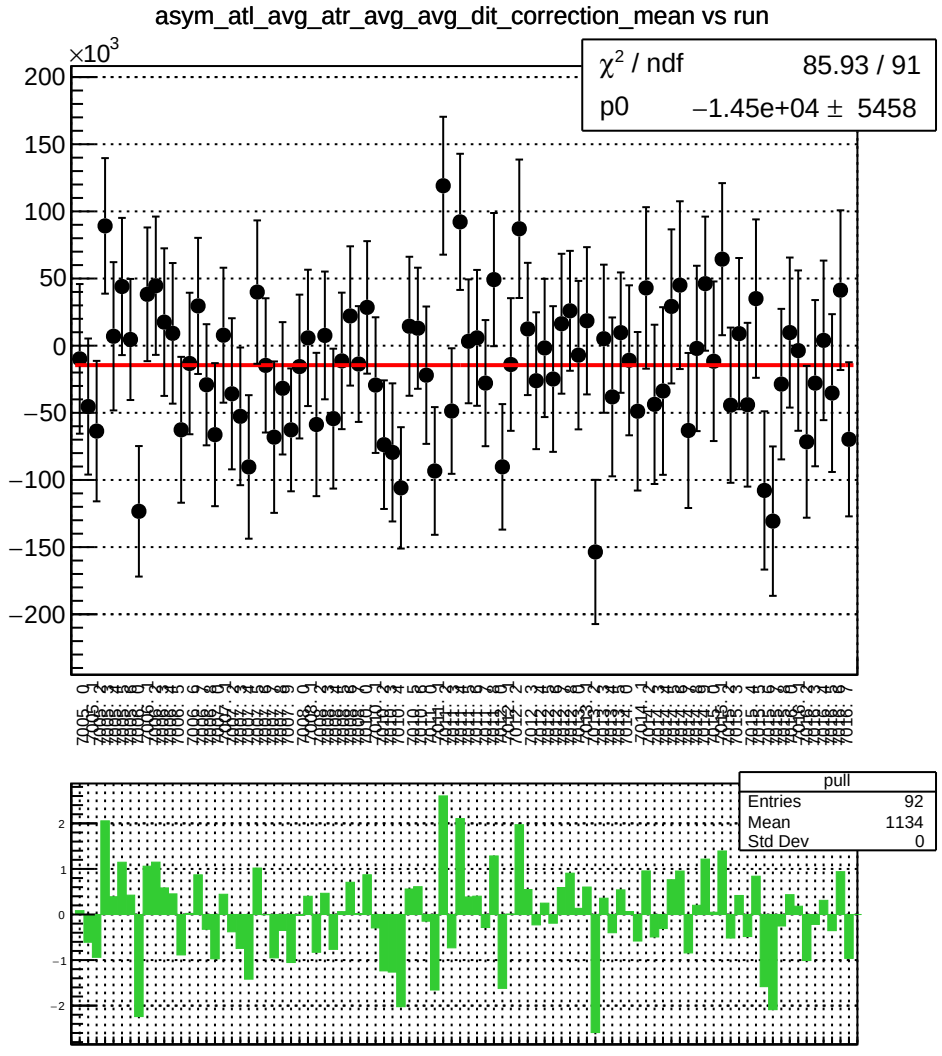

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 277.8 / 91
p0 1286 ± 0.982
1340
1320
1300
1280
1260
1240

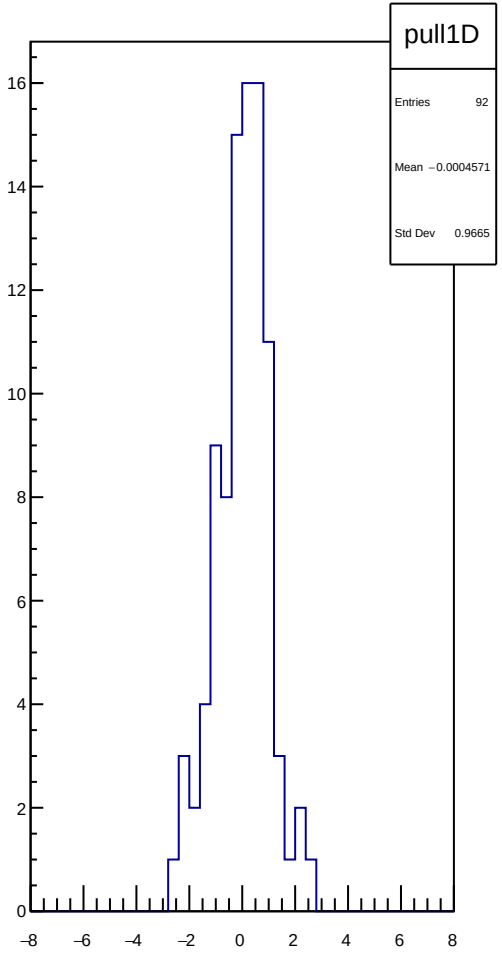

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.04 / 91
p0 −1.405e+04 ± 5159
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −1.345e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 3.634e−05
Std Dev 0.9614
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

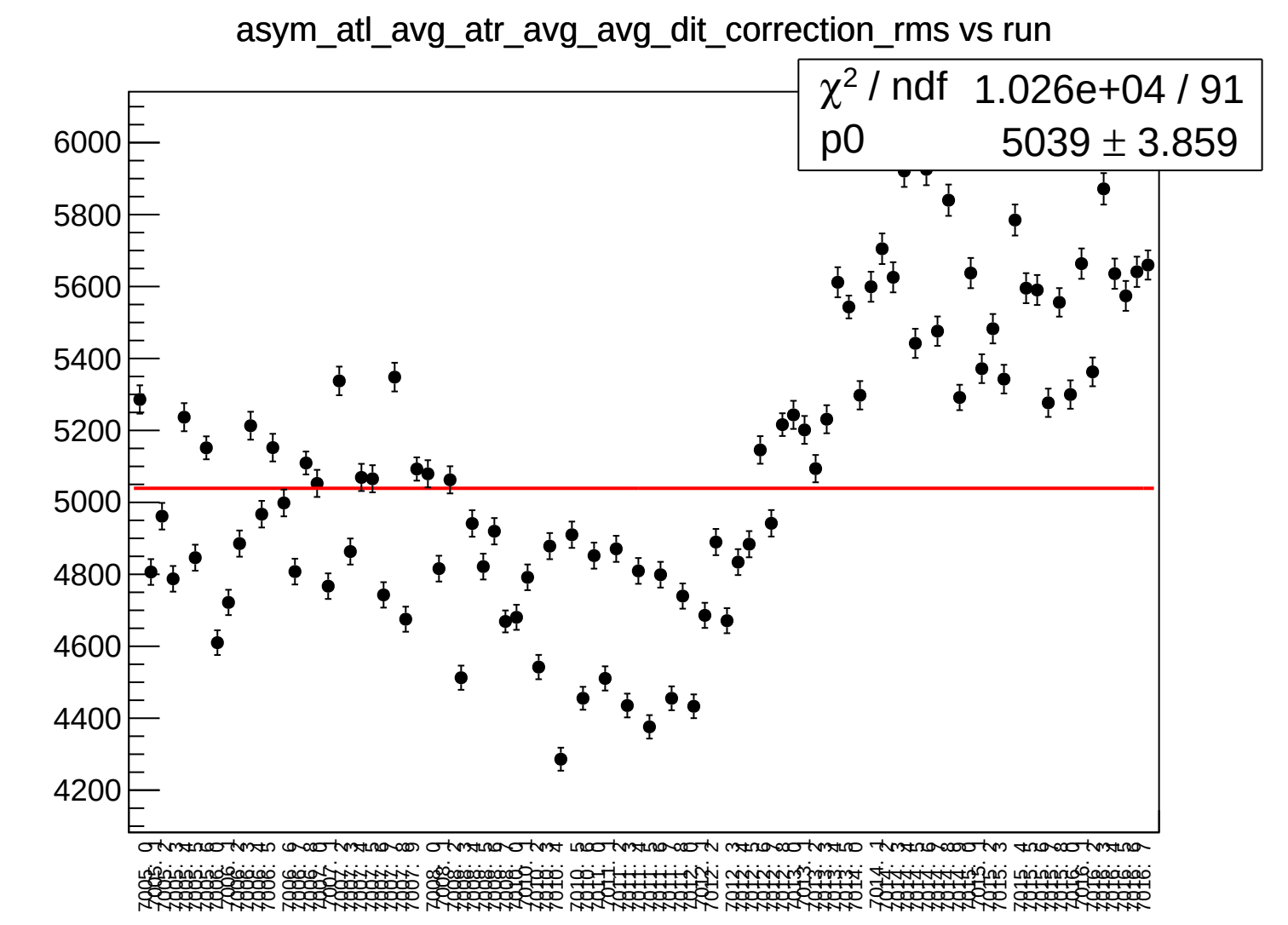

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.069e+04 / 91
p0 4763 ± 3.648
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

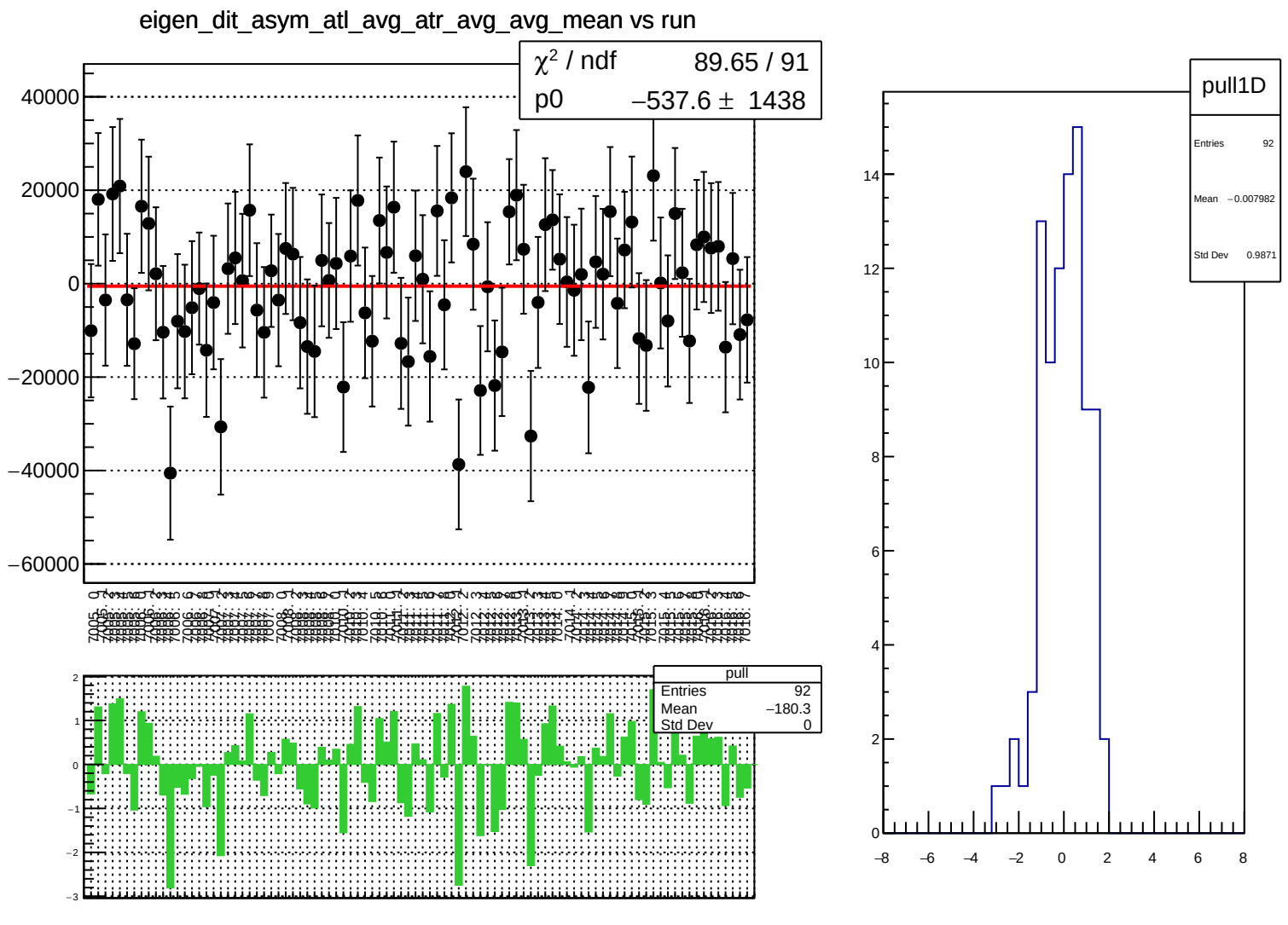

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 89.65 / 91
p0 −537.6 ± 1438
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −180.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.007982
Std Dev 0.9871
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

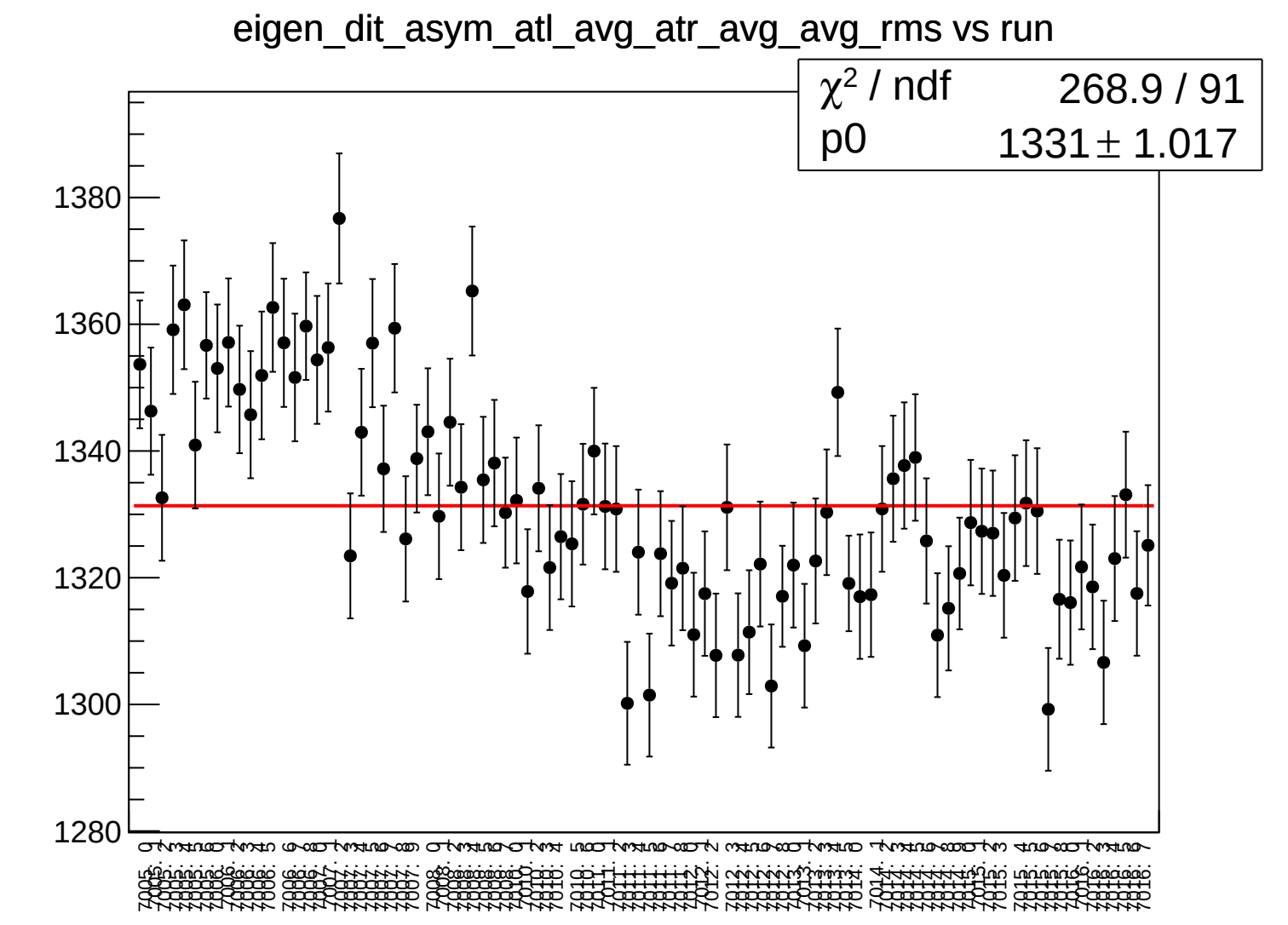

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 268.9 / 91
p0 1331 ± 1.017
1380
1360
1340
1320
1300
1280

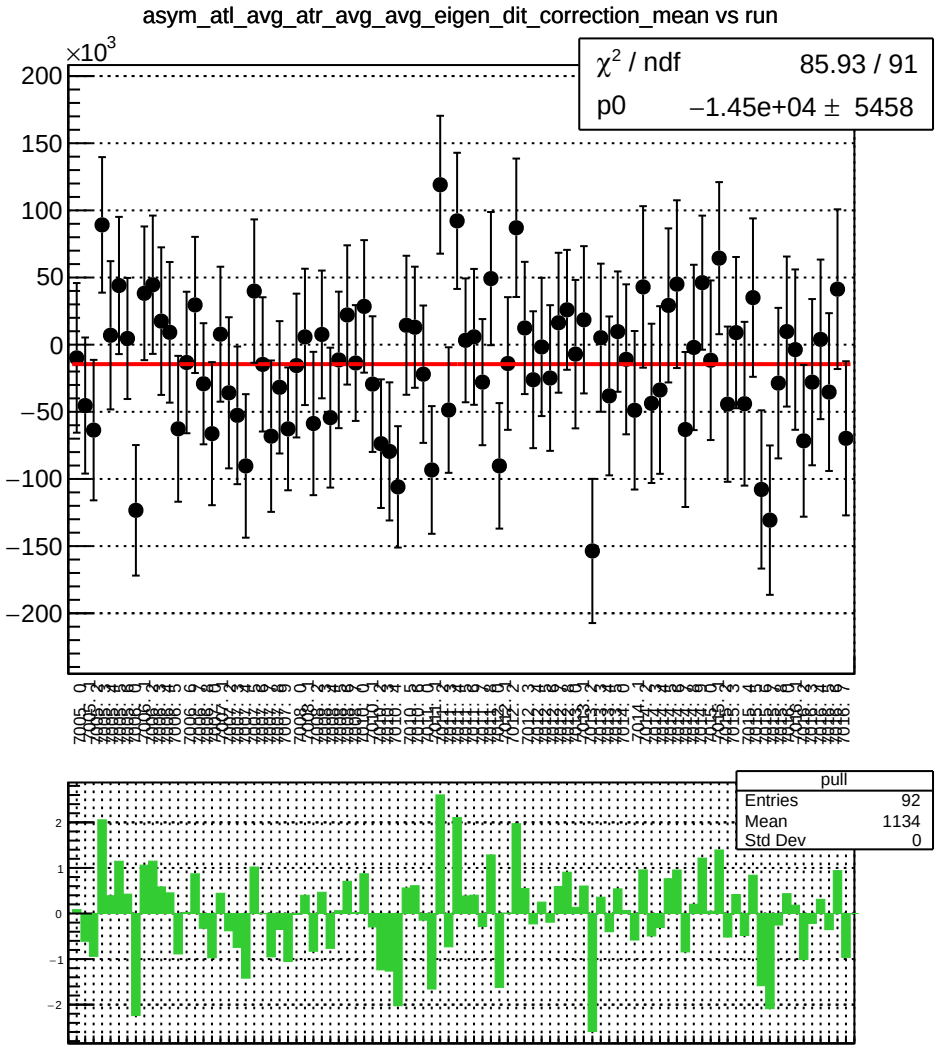

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.93 / 91
p0 −1.45e+04 ± 5458
pull
Entries 92
Mean 1134
Std Dev 0

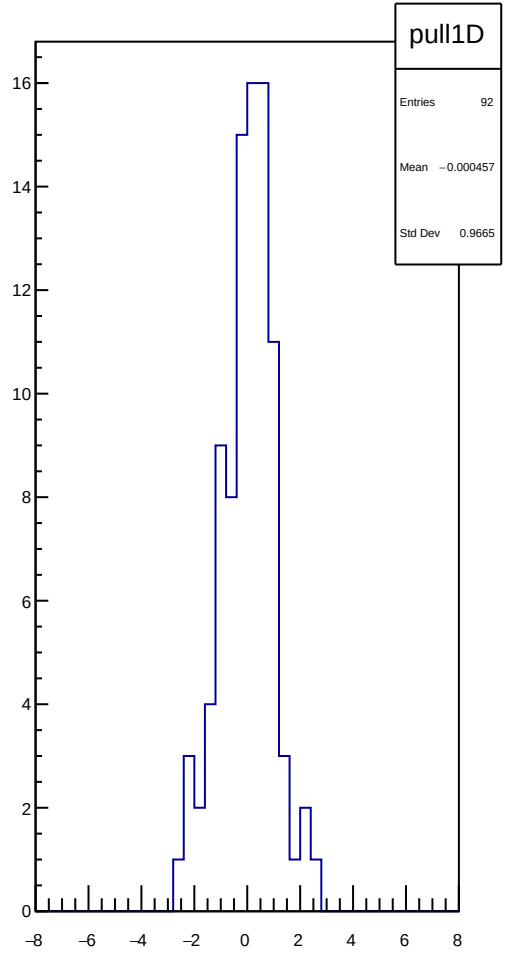

pull1D
Entries 92
Mean −0.0004571
Std Dev 0.9665

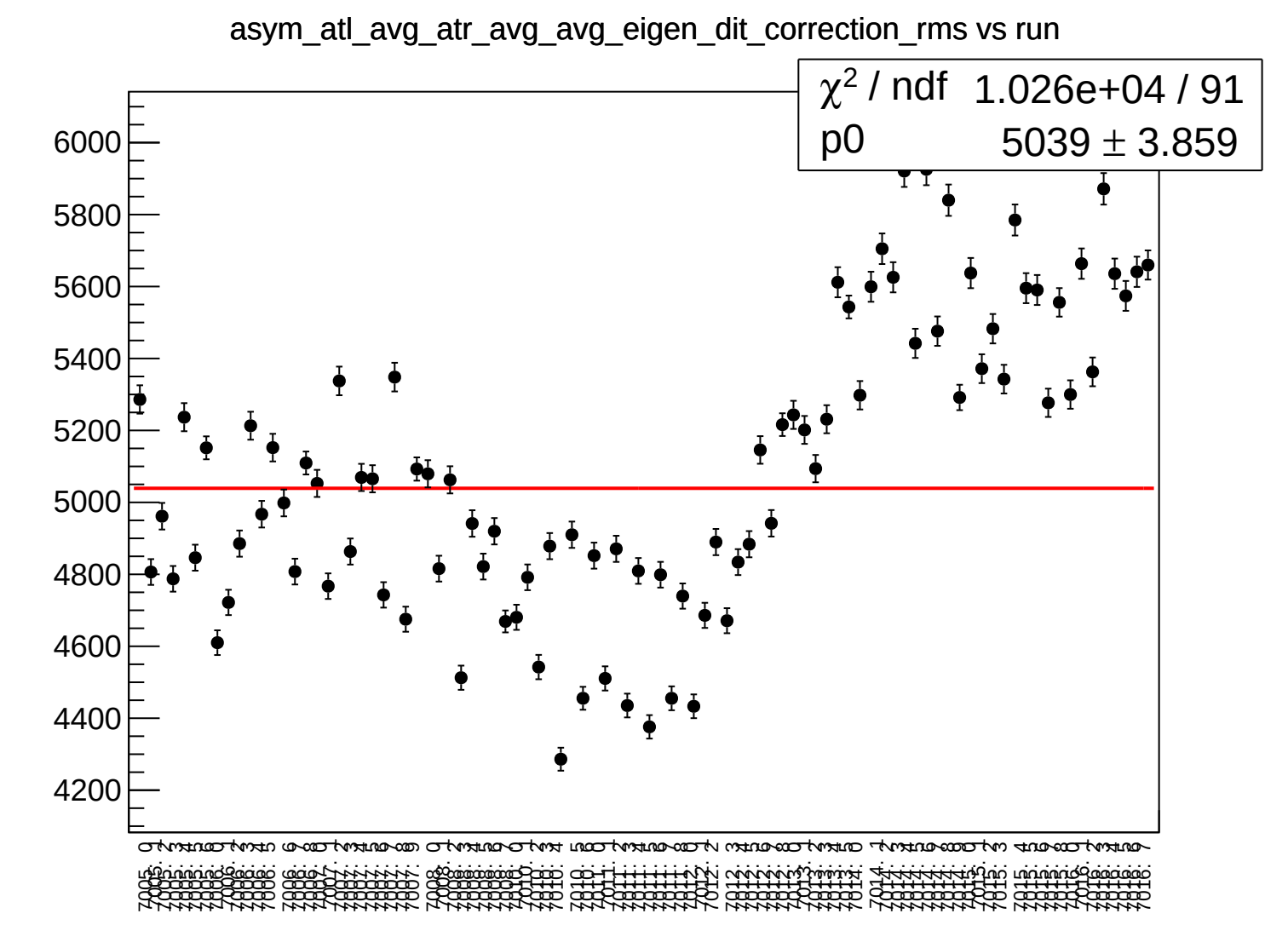

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.026e+04 / 91
p0 5039 ± 3.859
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

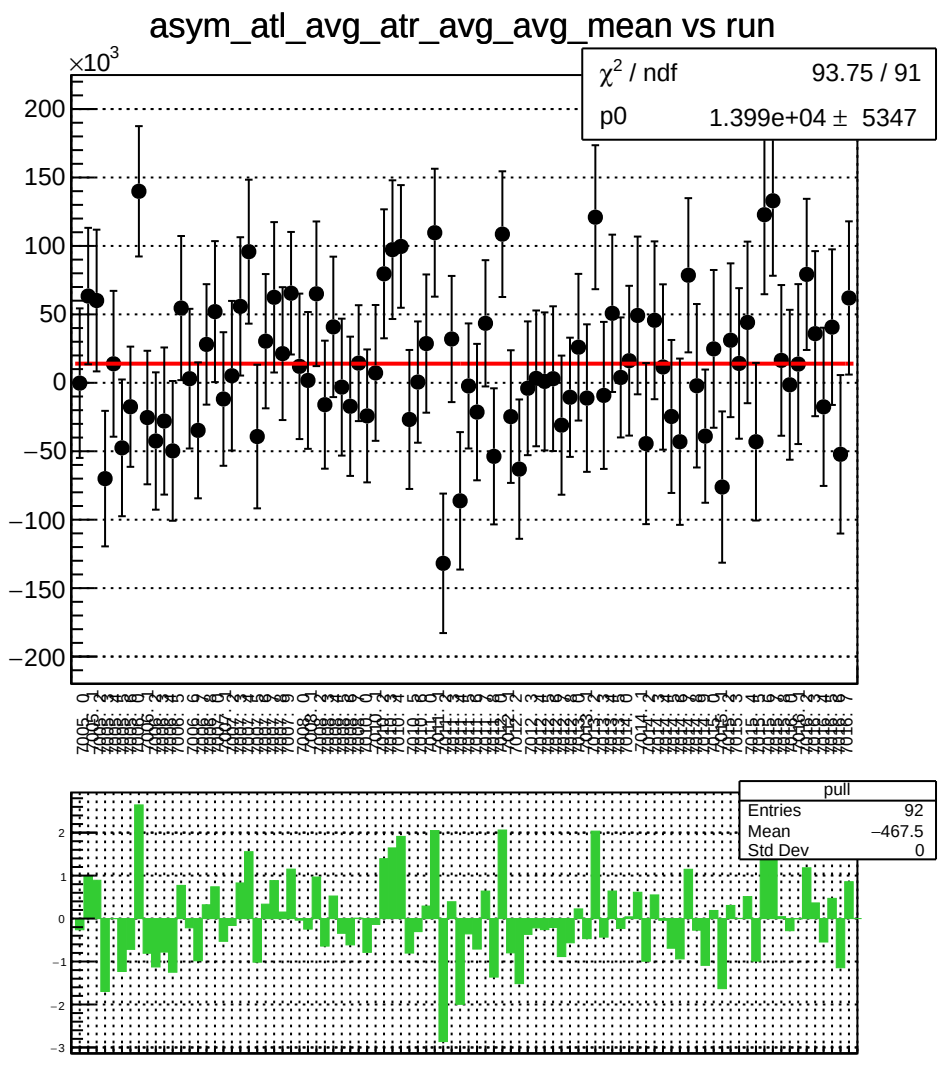

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 89.65 / 91
p0 −537.6 ± 1438
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −180.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.007982
Std Dev 0.9871
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

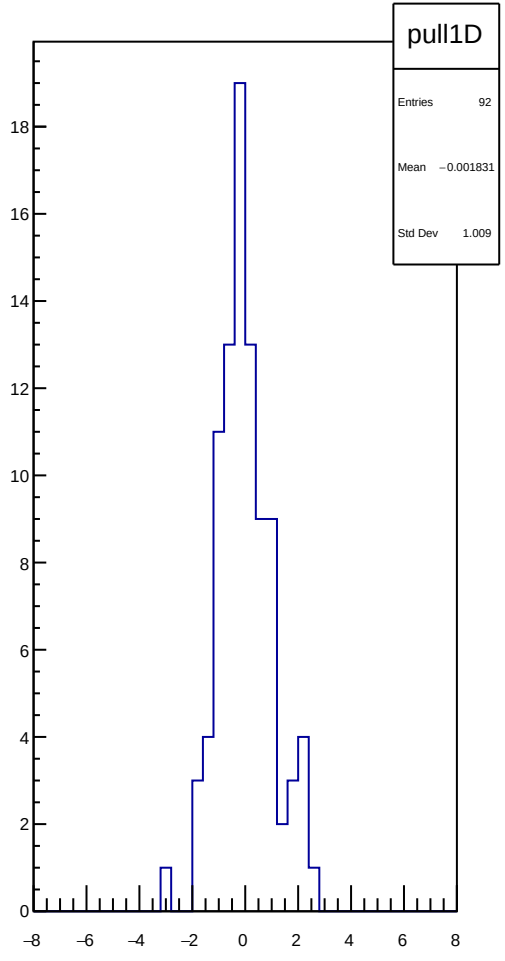

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 268.9 / 91
p0 1331 ± 1.017
1380
1360
1340
1320
1300
1280

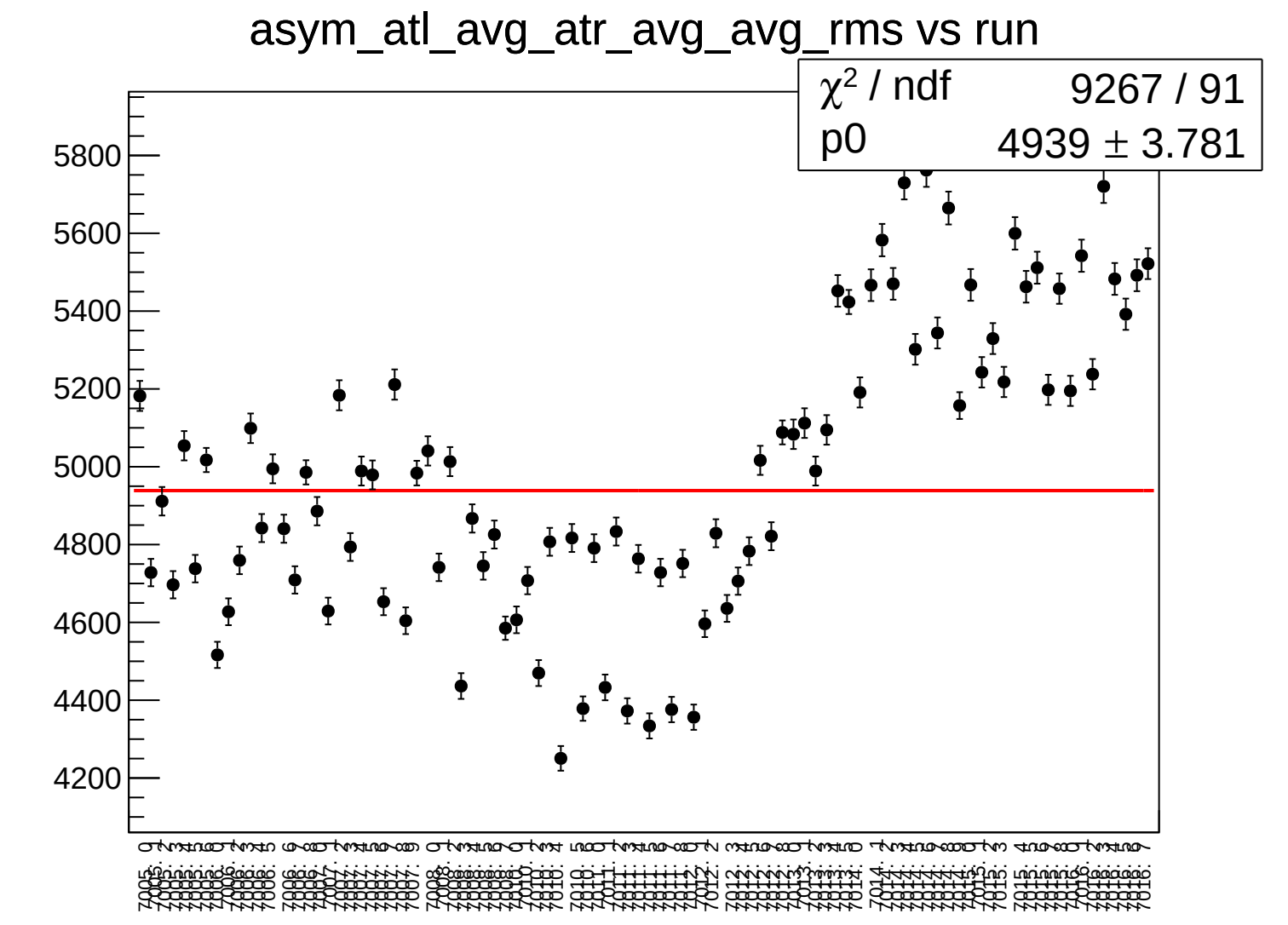

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.93 / 91
p0 −1.45e+04 ± 5458
pull
Entries 92
Mean 1134
Std Dev 0

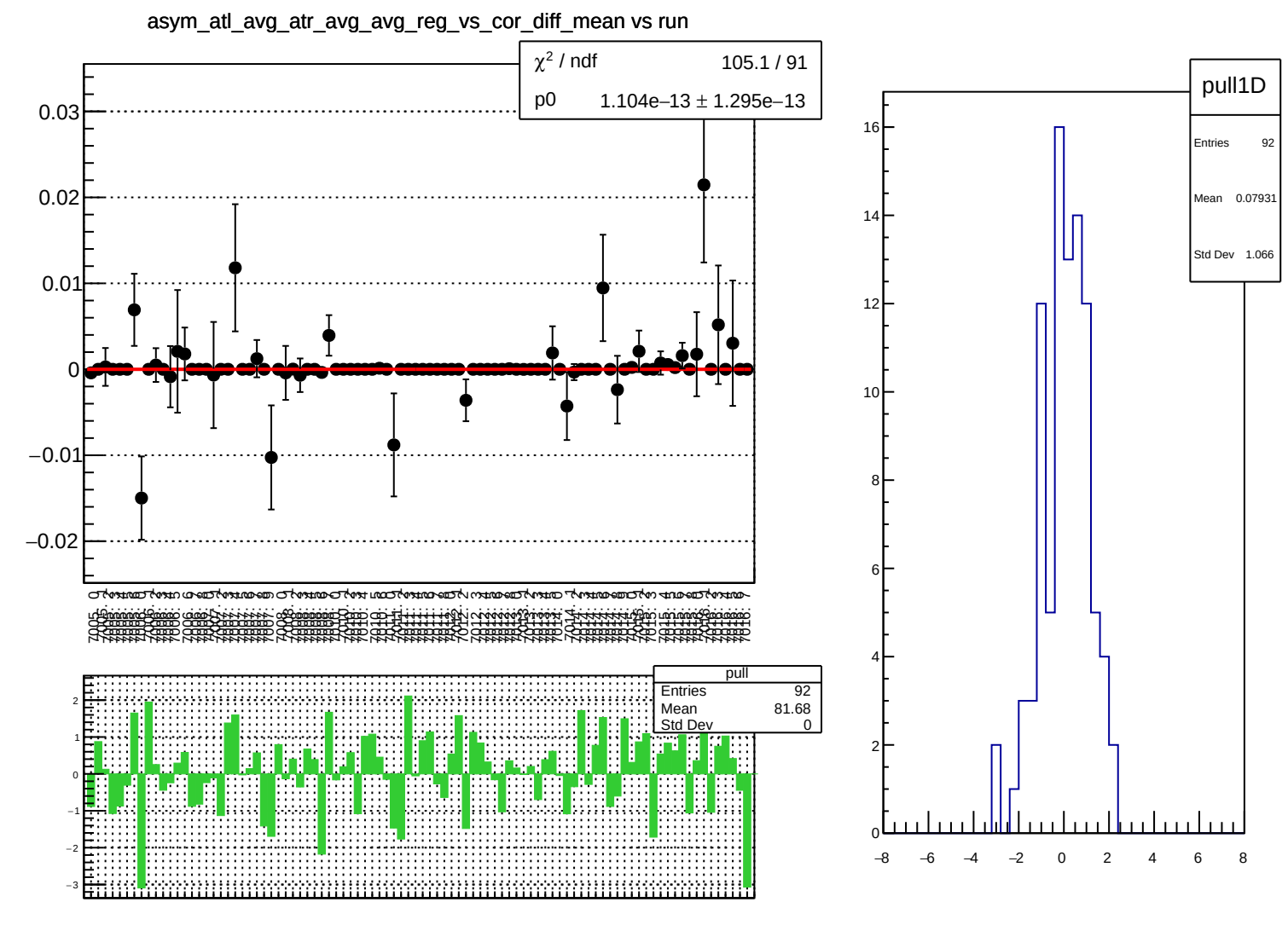

pull1D
Entries 92
Mean −0.000457
Std Dev 0.9665

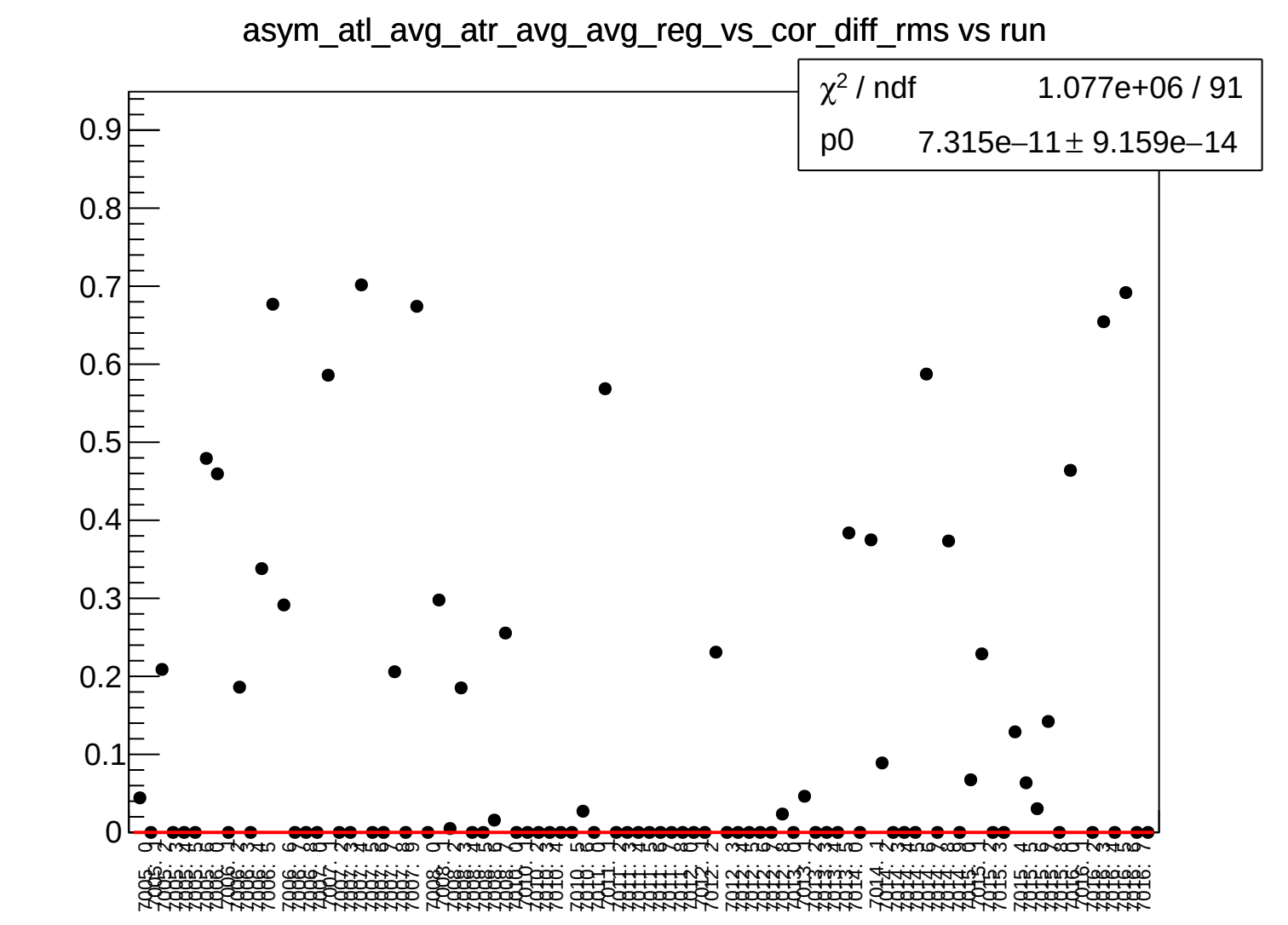

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.026e+04 / 91
p0 5039 ± 3.859
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

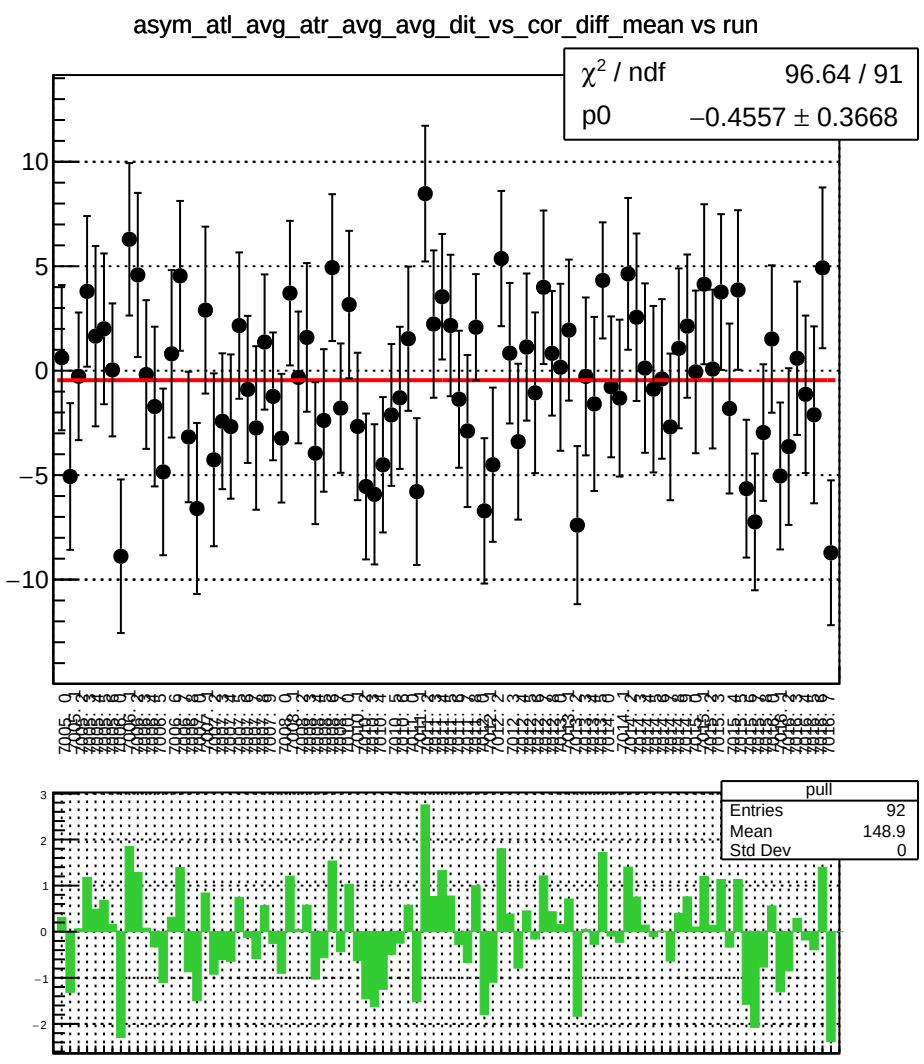

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.75 / 91
p0 1.399e+04 ± 5347
×10³
pull
Entries 92
Mean −467.5
Std Dev 0

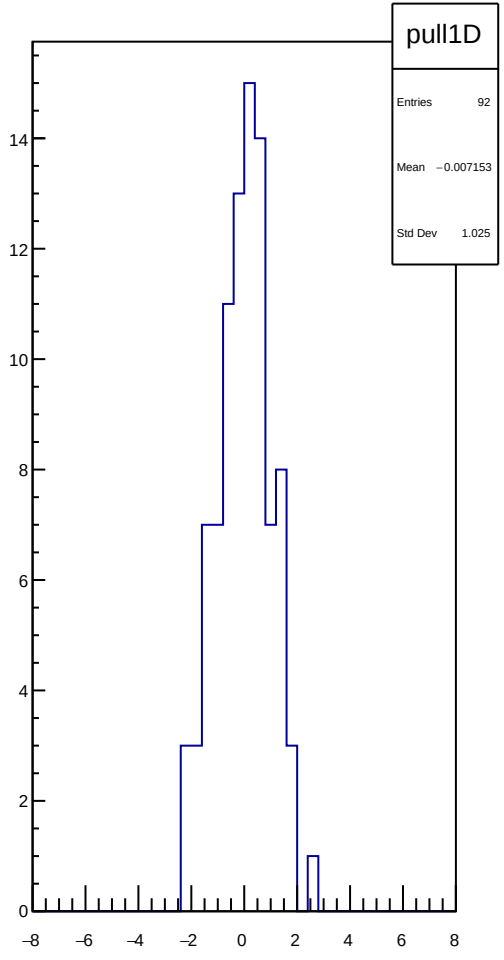

pull1D
Entries 92
Mean −0.001831
Std Dev 1.009

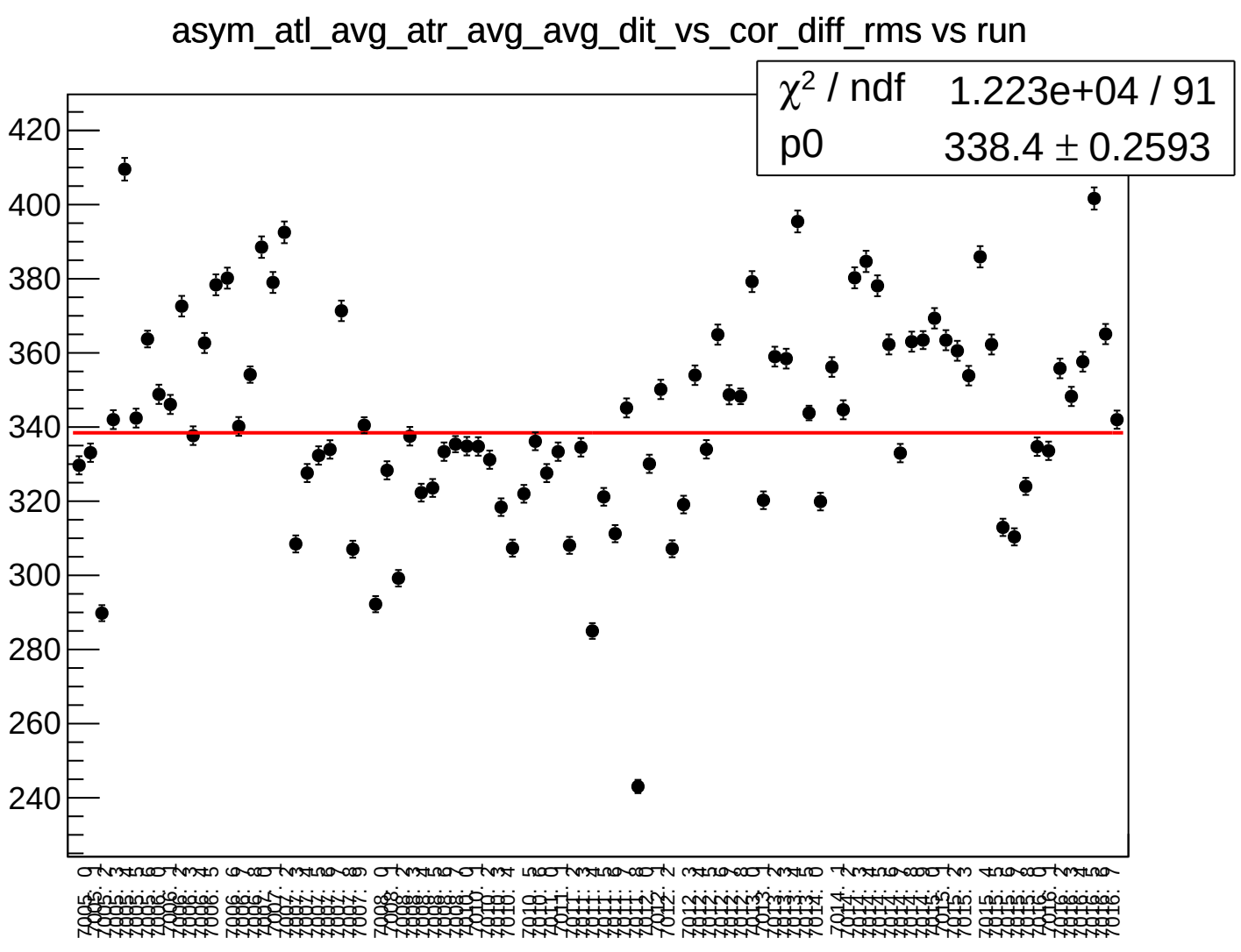

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 9267 / 91
p0 4939 ± 3.781
5800
5600
5400
5200
5000
4800
4600
4400
4200

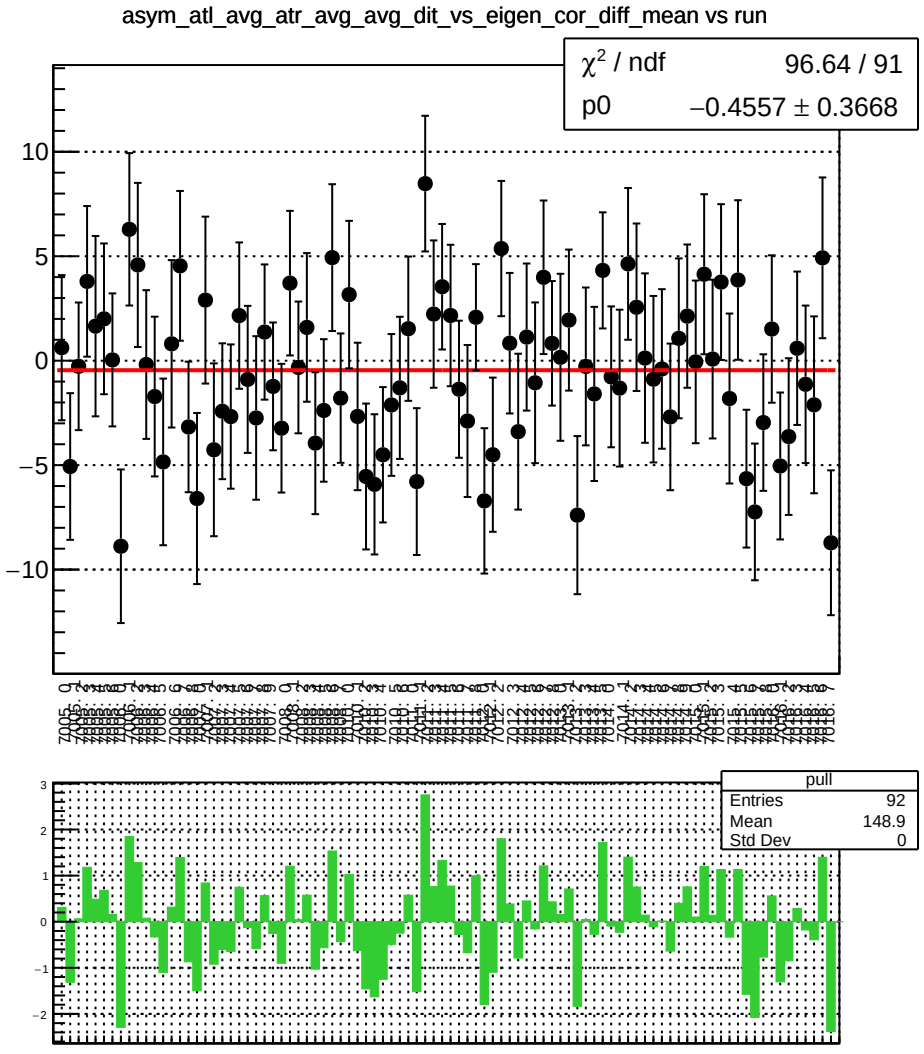

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 91
p0 1.104e−13 ± 1.295e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 81.68
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.07931
Std Dev 1.066
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

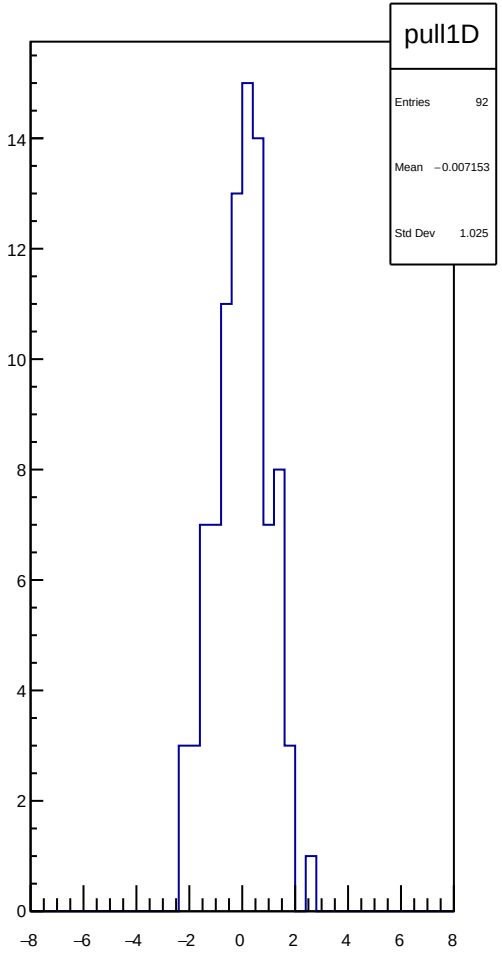

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.077e+06 / 91
p0 7.315e−11 ± 9.159e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

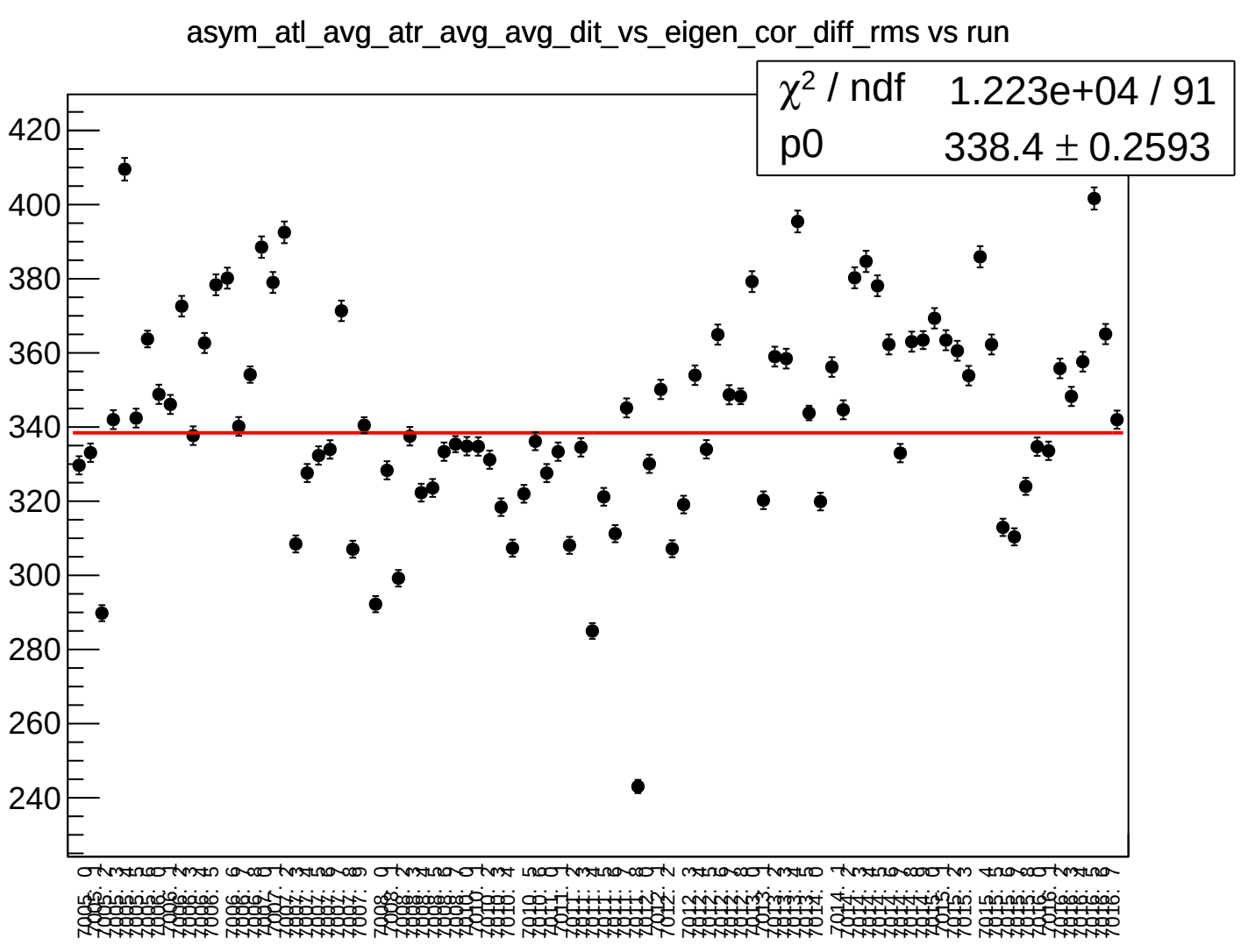

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.64 / 91
p0 −0.4557 ± 0.3668
10
5
0
−5
−10
pull
Entries 92
Mean 148.9
Std Dev 0
3
2
1
0
−1
−2

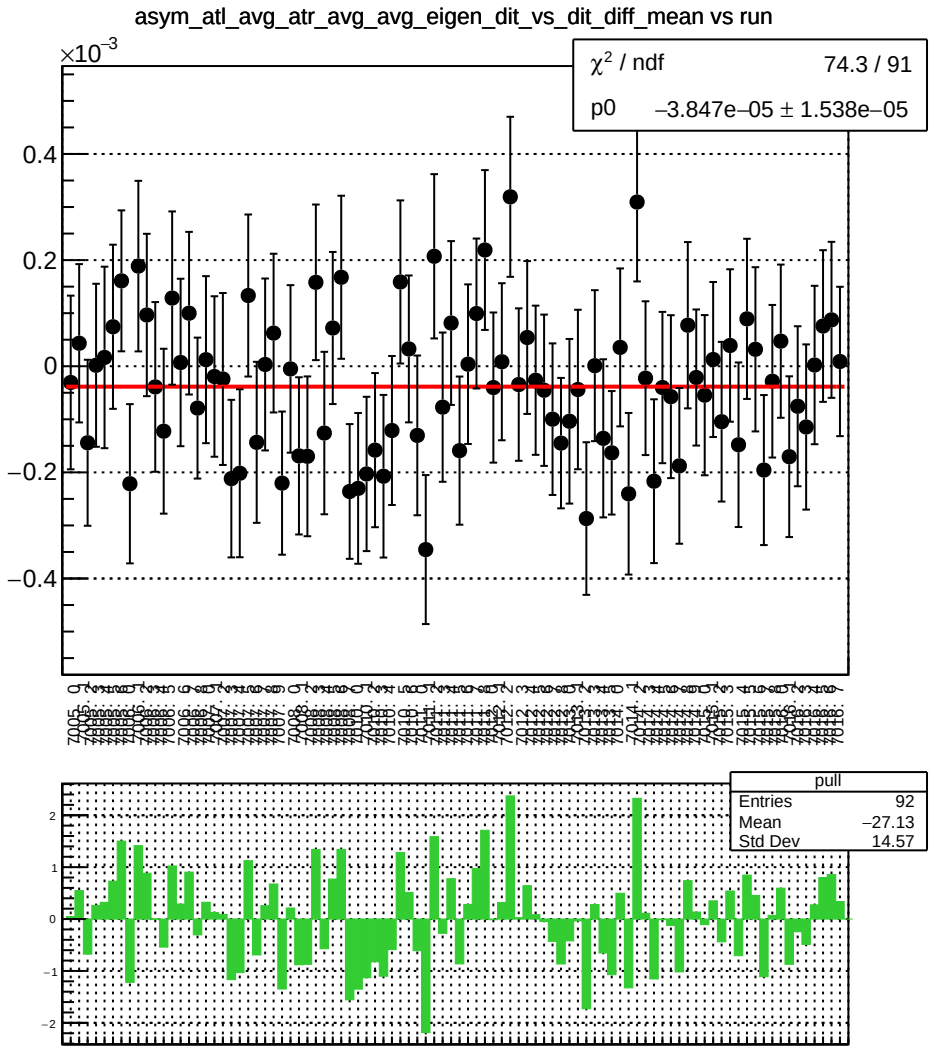

pull1D
Entries 92
Mean −0.007153
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

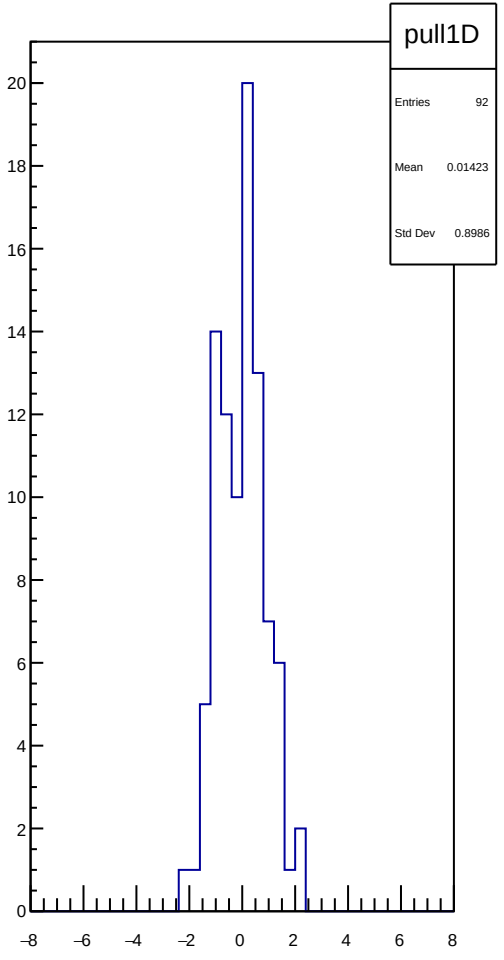

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.223e+04 / 91
p0 338.4 ± 0.2593
420
400
380
360
340
320
300
280
260
240

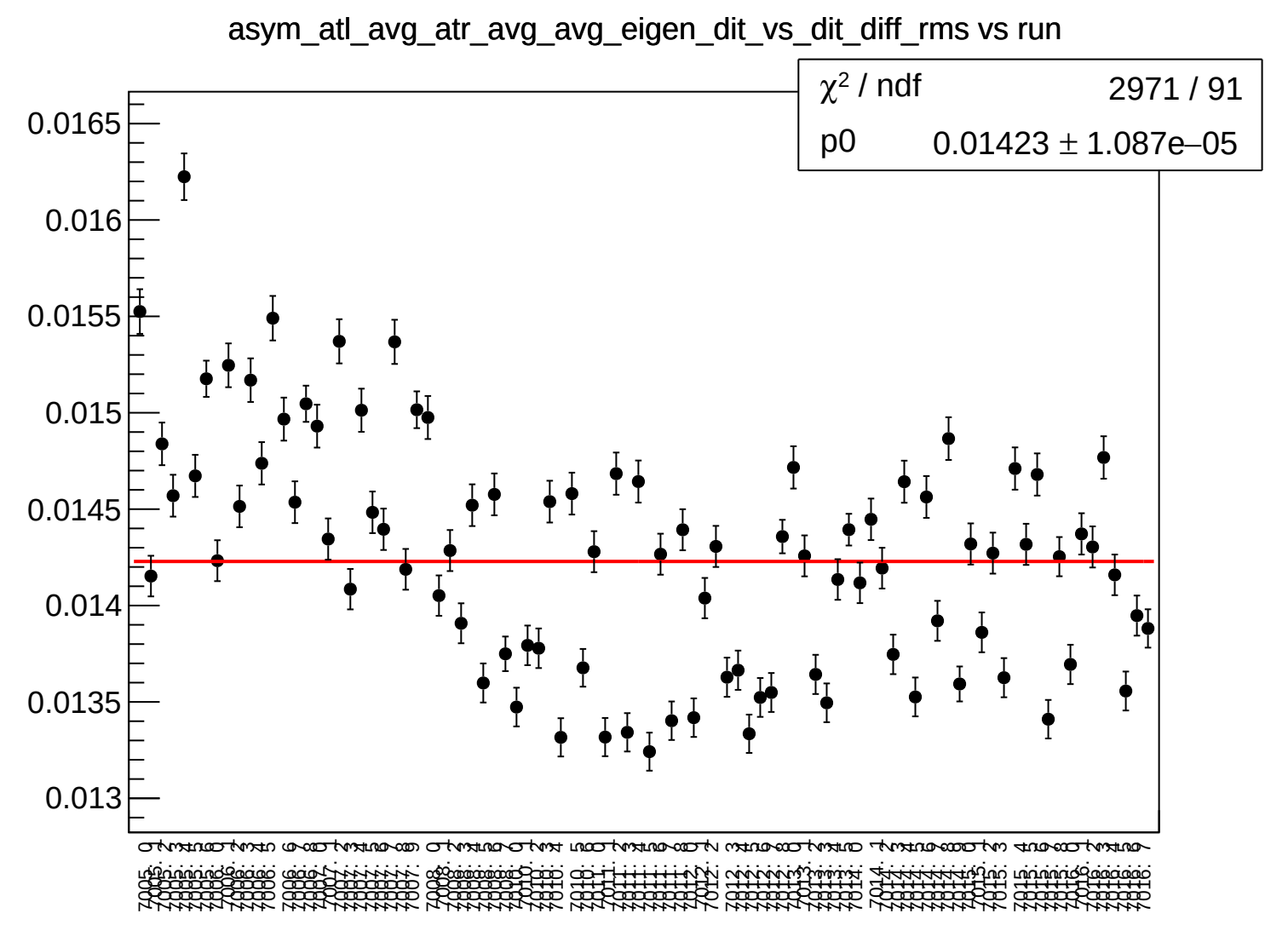

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.64 / 91
p0 −0.4557 ± 0.3668
pull
Entries 92
Mean 148.9
Std Dev 0

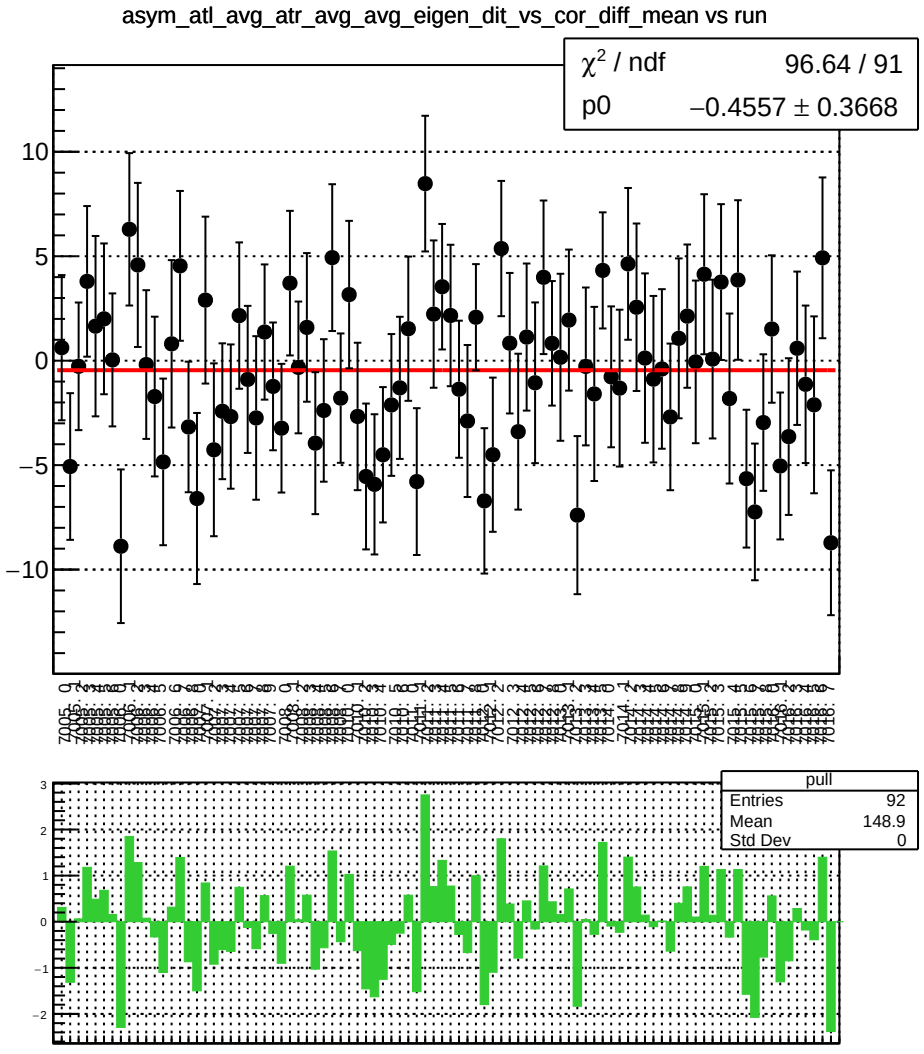

pull1D
Entries 92
Mean −0.007153
Std Dev 1.025

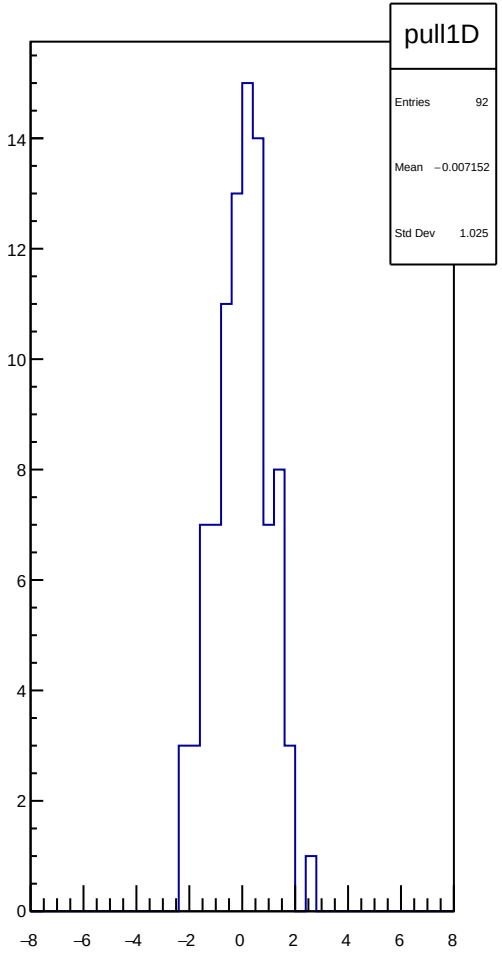

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.223e+04 / 91
p0 338.4 ± 0.2593
420
400
380
360
340
320
300
280
260
240

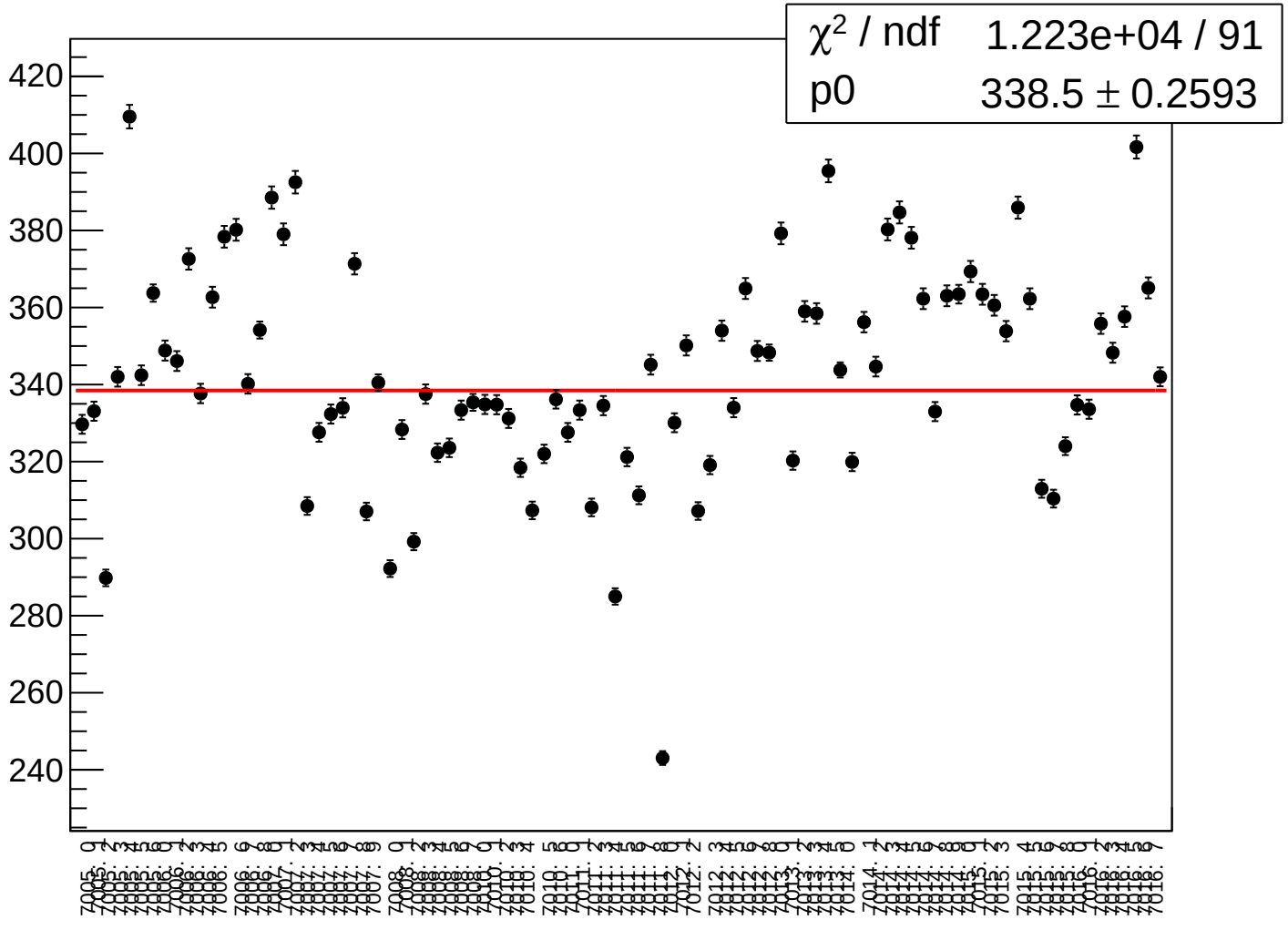

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.3 / 91
p0 −3.847e−05 ± 1.538e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean −27.13
Std Dev 14.57
2
1
0
−1
−2

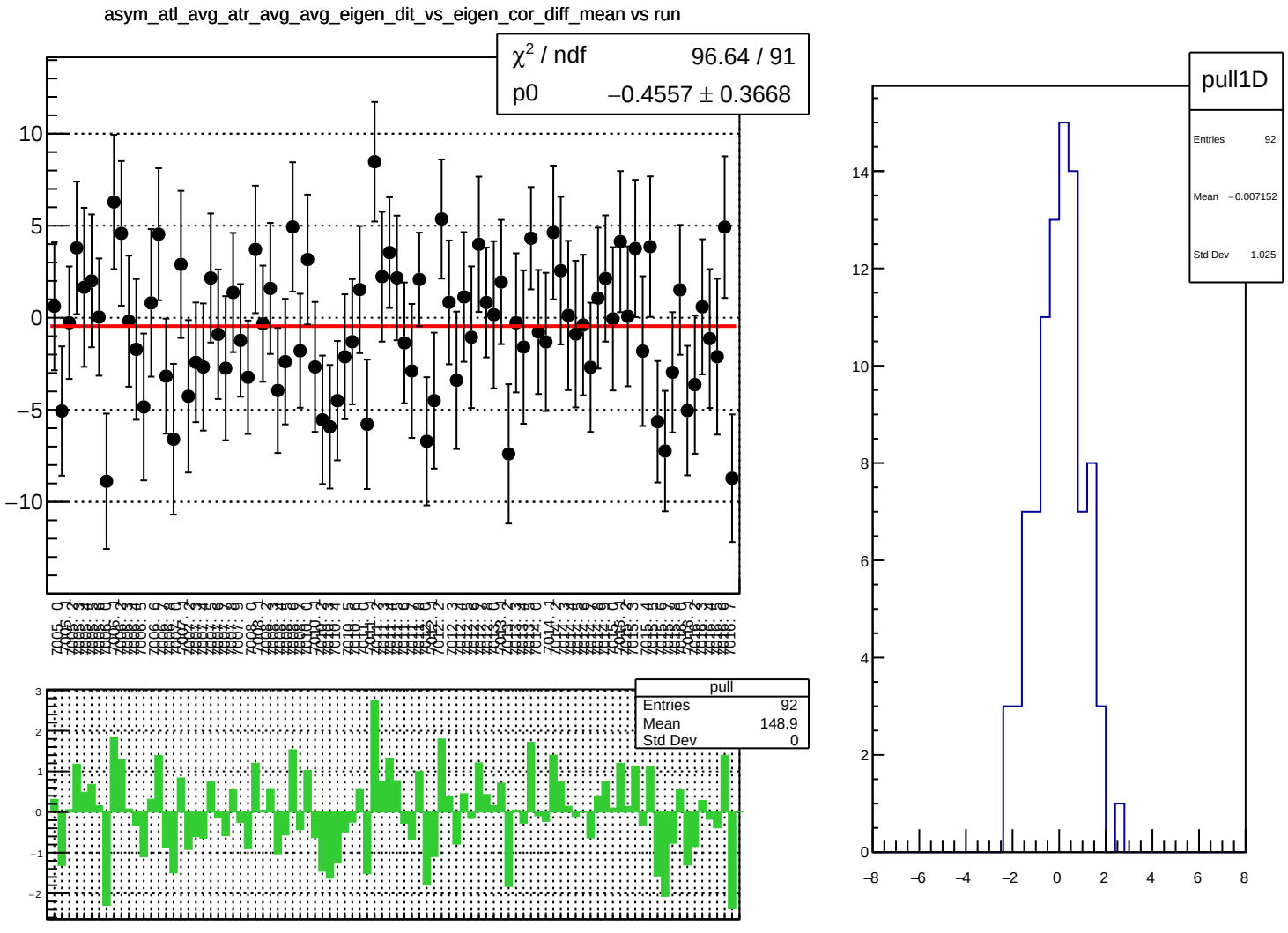

pull1D
Entries 92
Mean 0.01423
Std Dev 0.8986
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

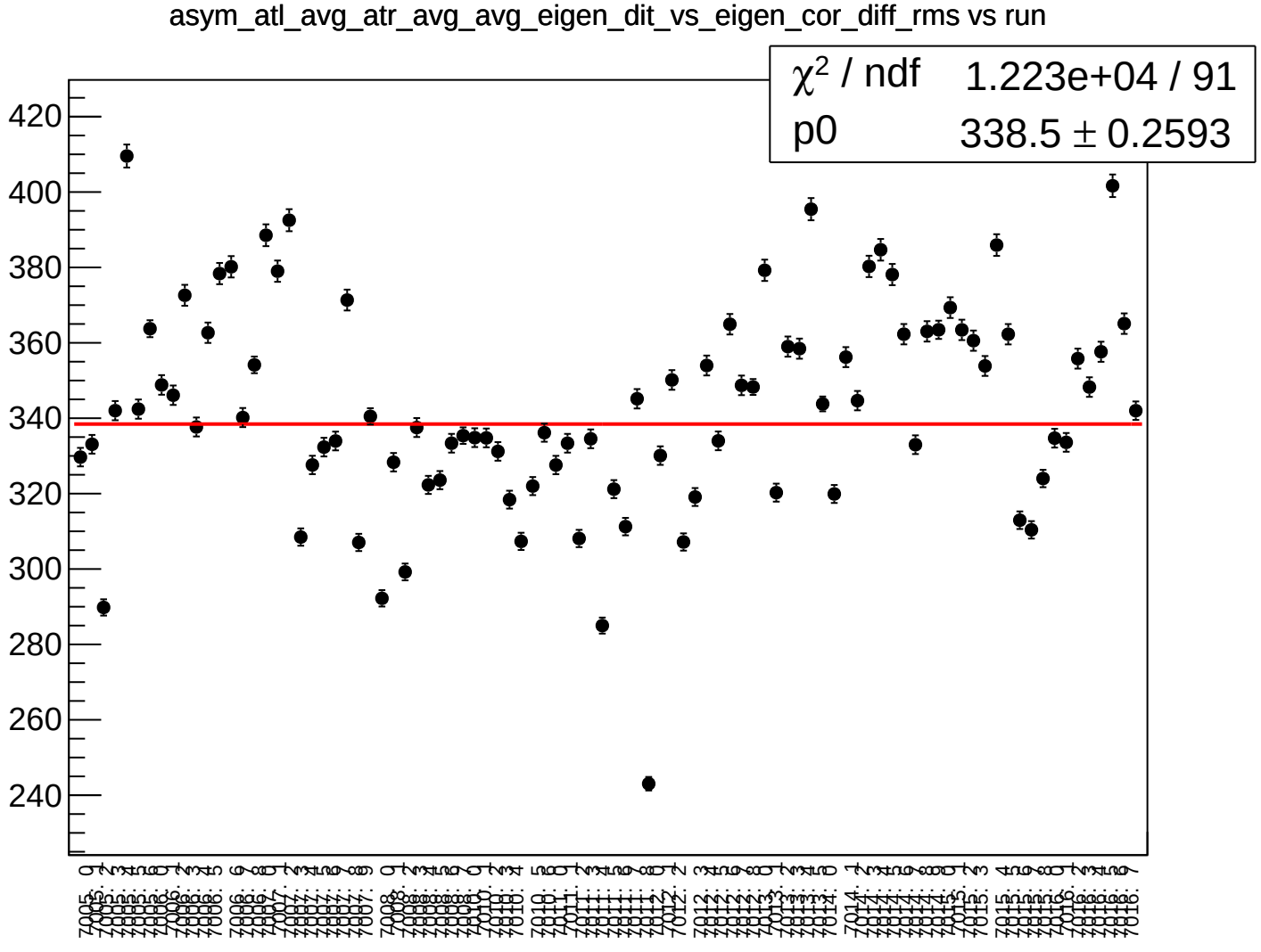

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2971 / 91
p0 0.01423 ± 1.087e−05
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013

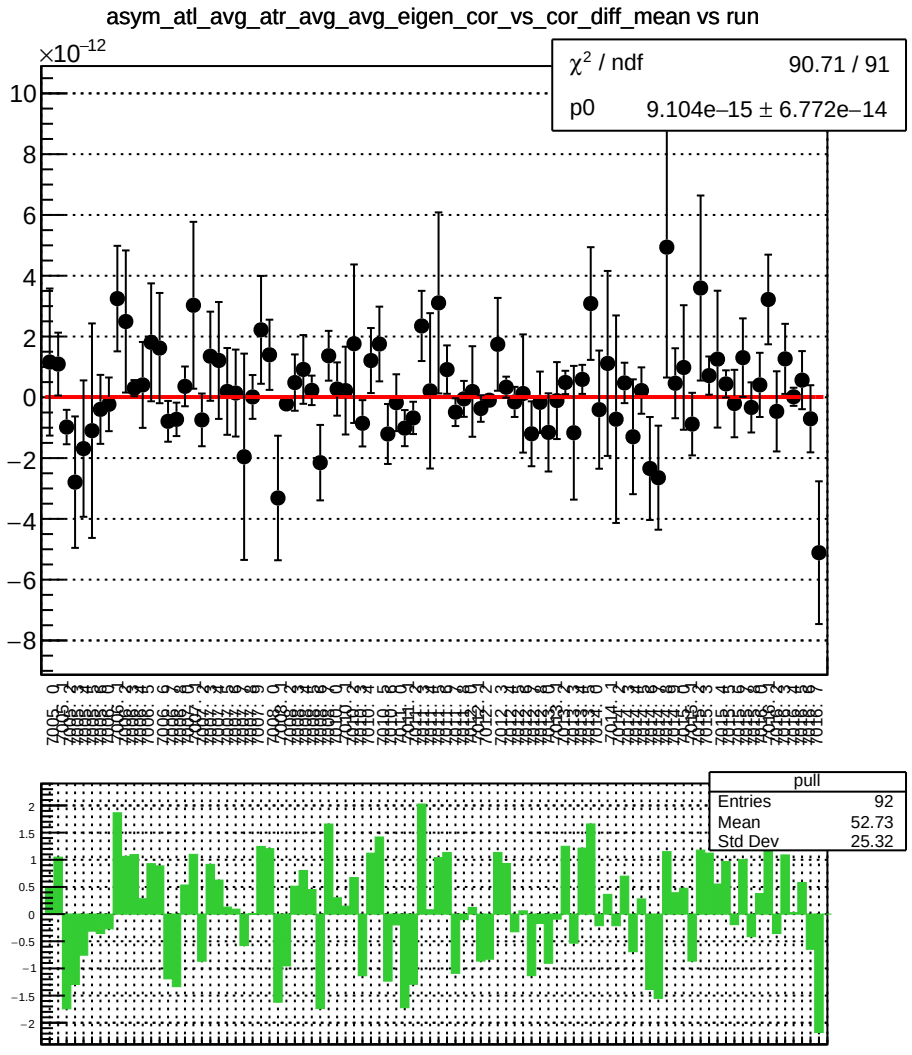

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.64 / 91
p0 −0.4557 ± 0.3668
pull
Entries 92
Mean 148.9
Std Dev 0

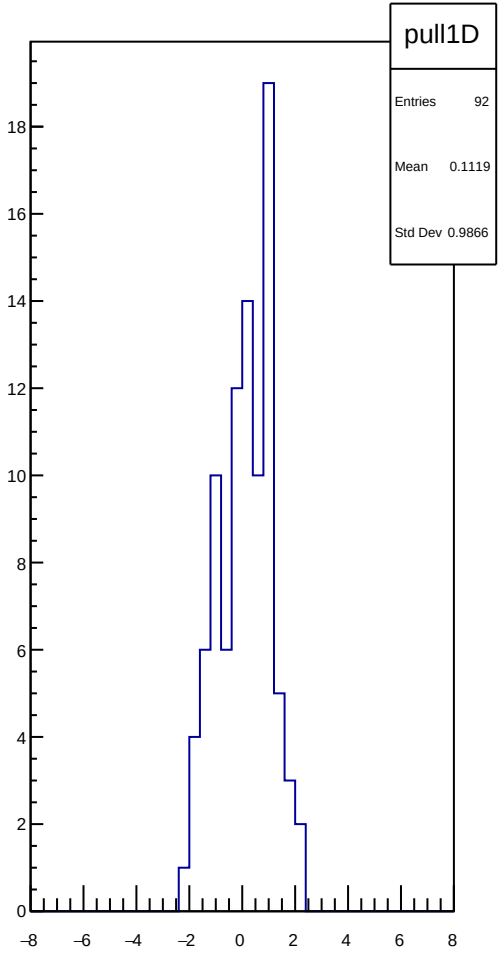

pull1D
Entries 92
Mean −0.007152
Std Dev 1.025

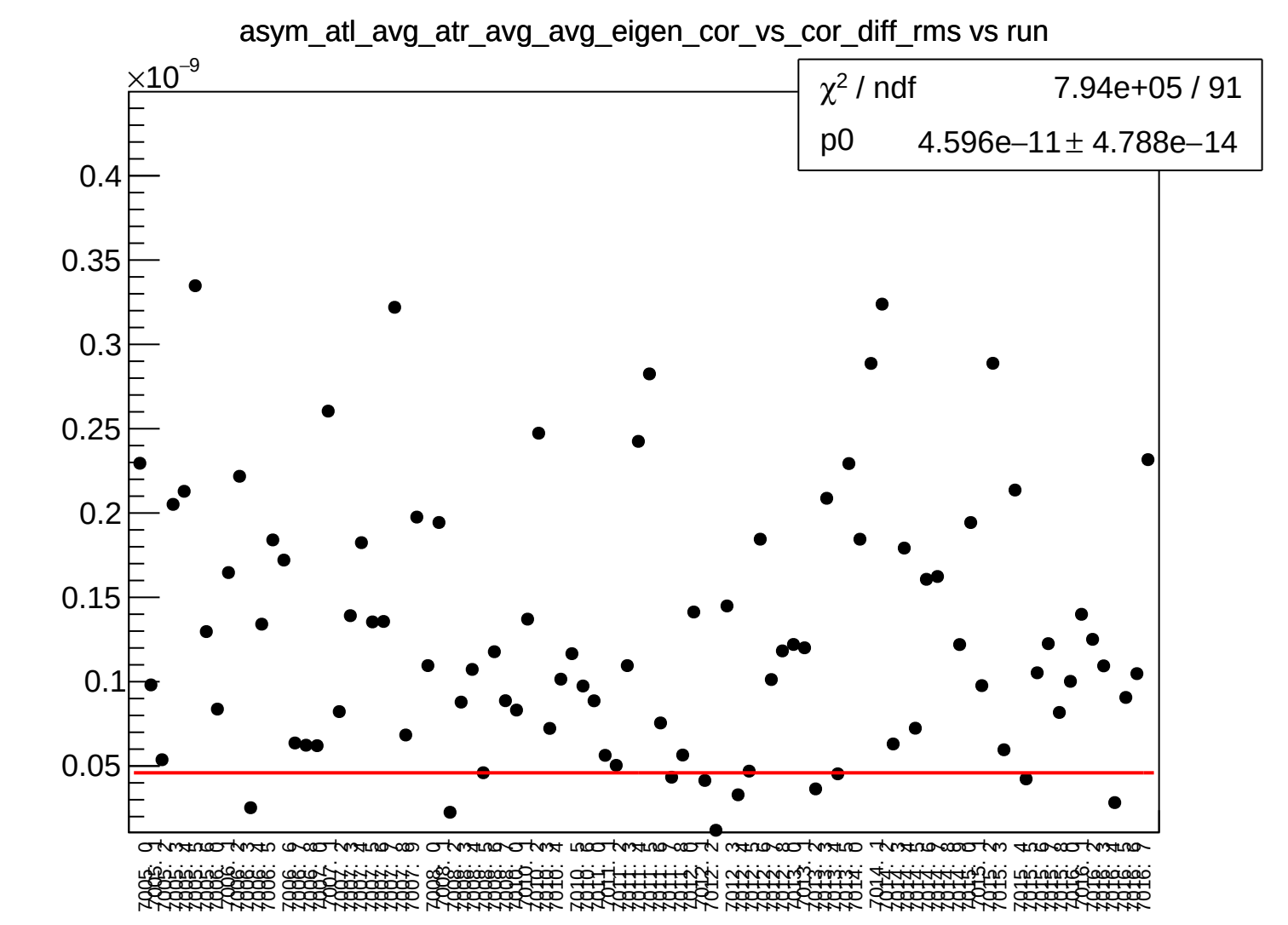

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.223e+04 / 91
p0 338.5 ± 0.2593
420
400
380
360
340
320
300
280
260
240

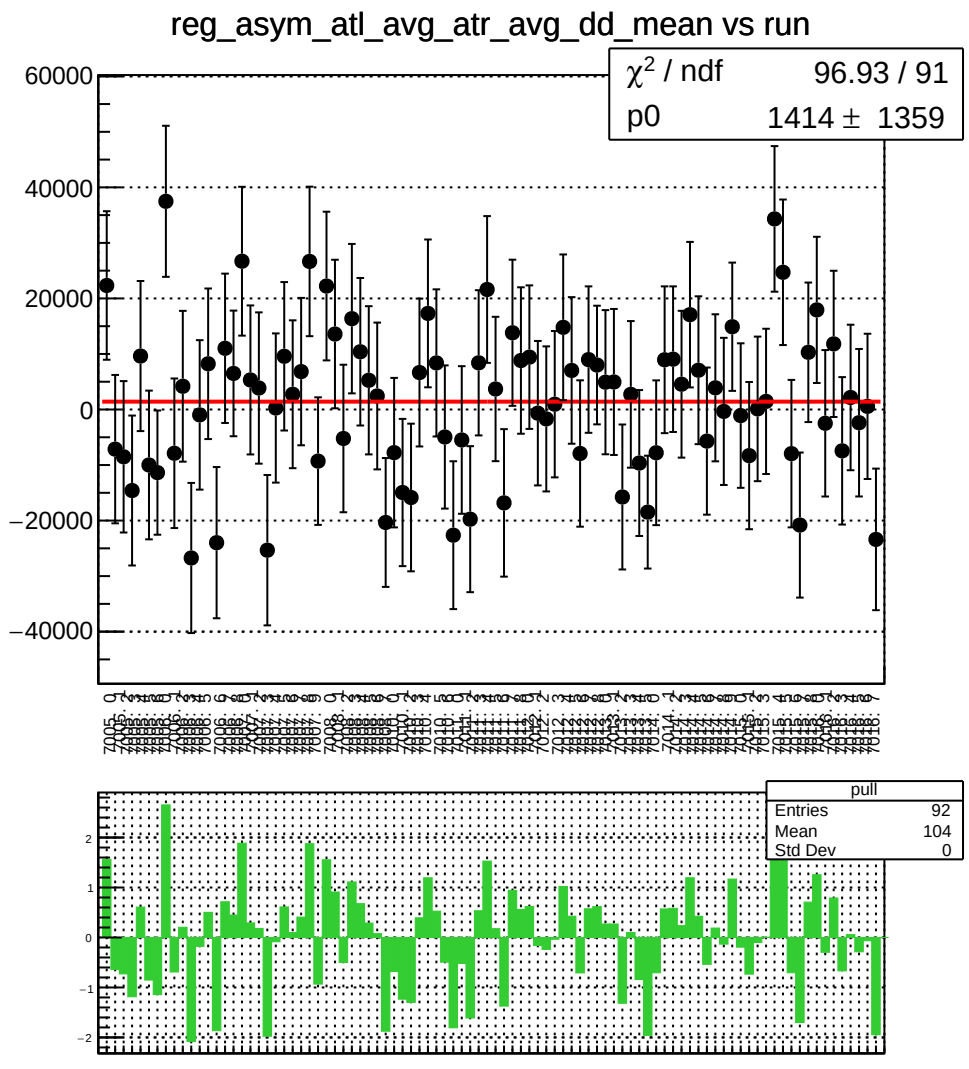

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.64 / 91
p0 −0.4557 ± 0.3668
pull
Entries 92
Mean 148.9
Std Dev 0
pull1D
Entries 92
Mean −0.007152
Std Dev 1.025

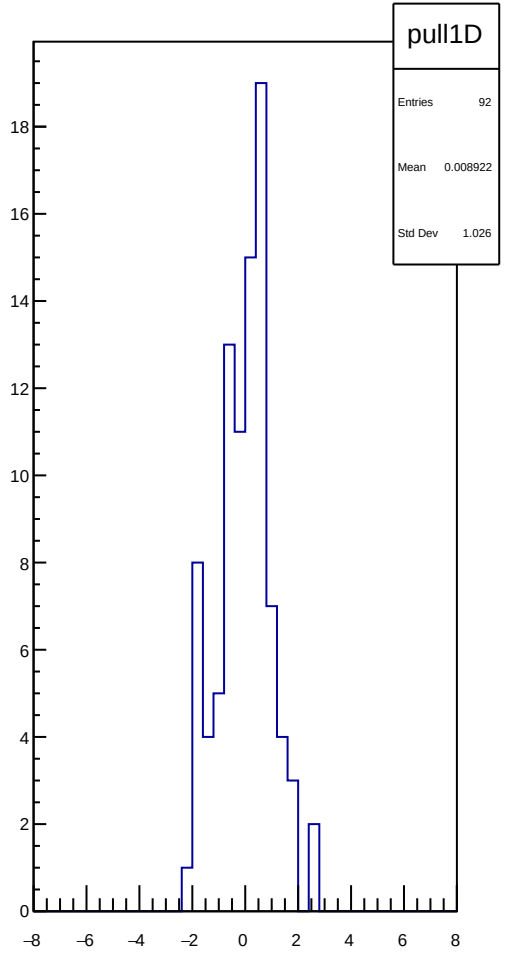

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.223e+04 / 91
p0 338.5 ± 0.2593
420
400
380
360
340
320
300
280
260
240

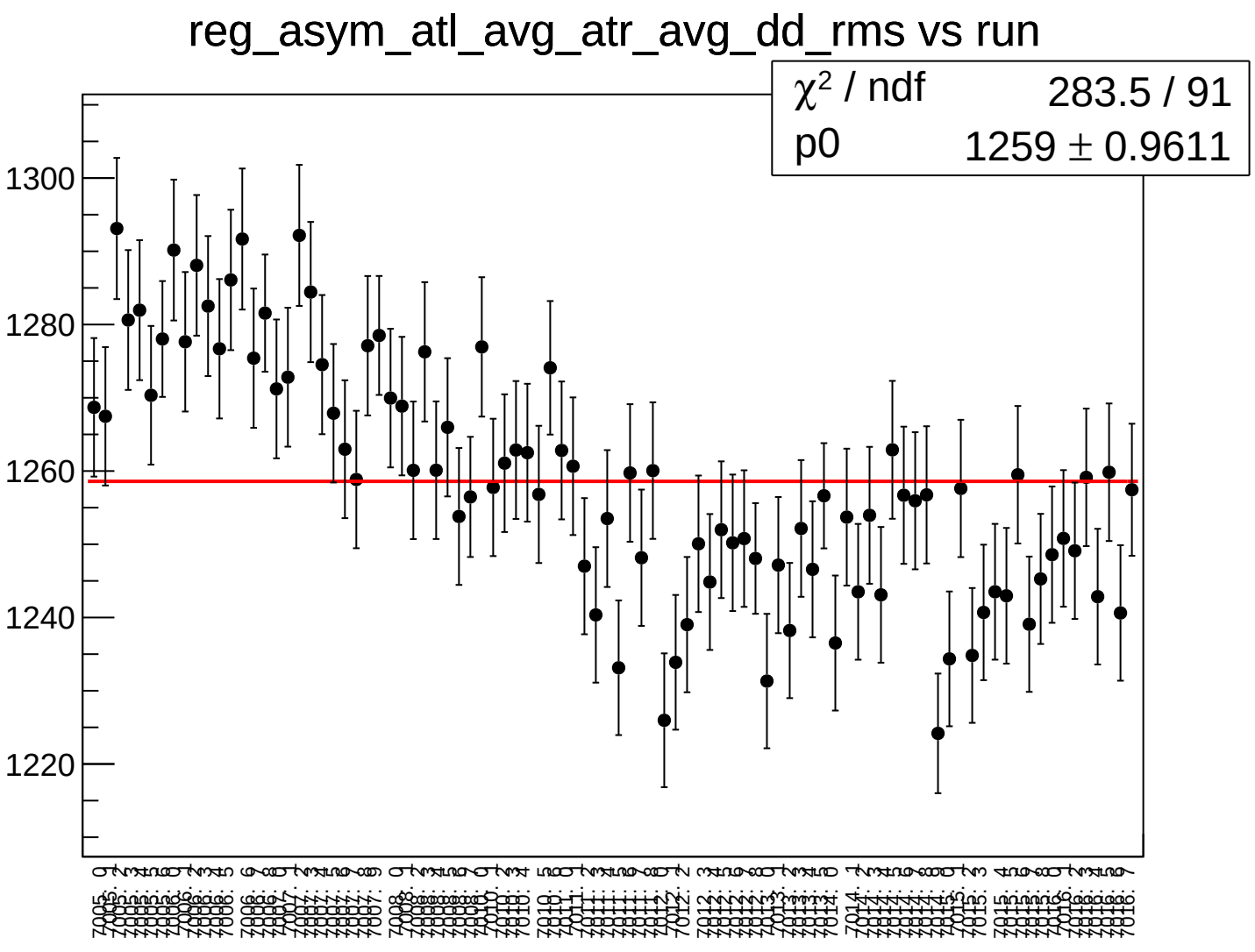

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.71 / 91
p0 9.104e−15 ± 6.772e−14
pull
Entries 92
Mean 52.73
Std Dev 25.32

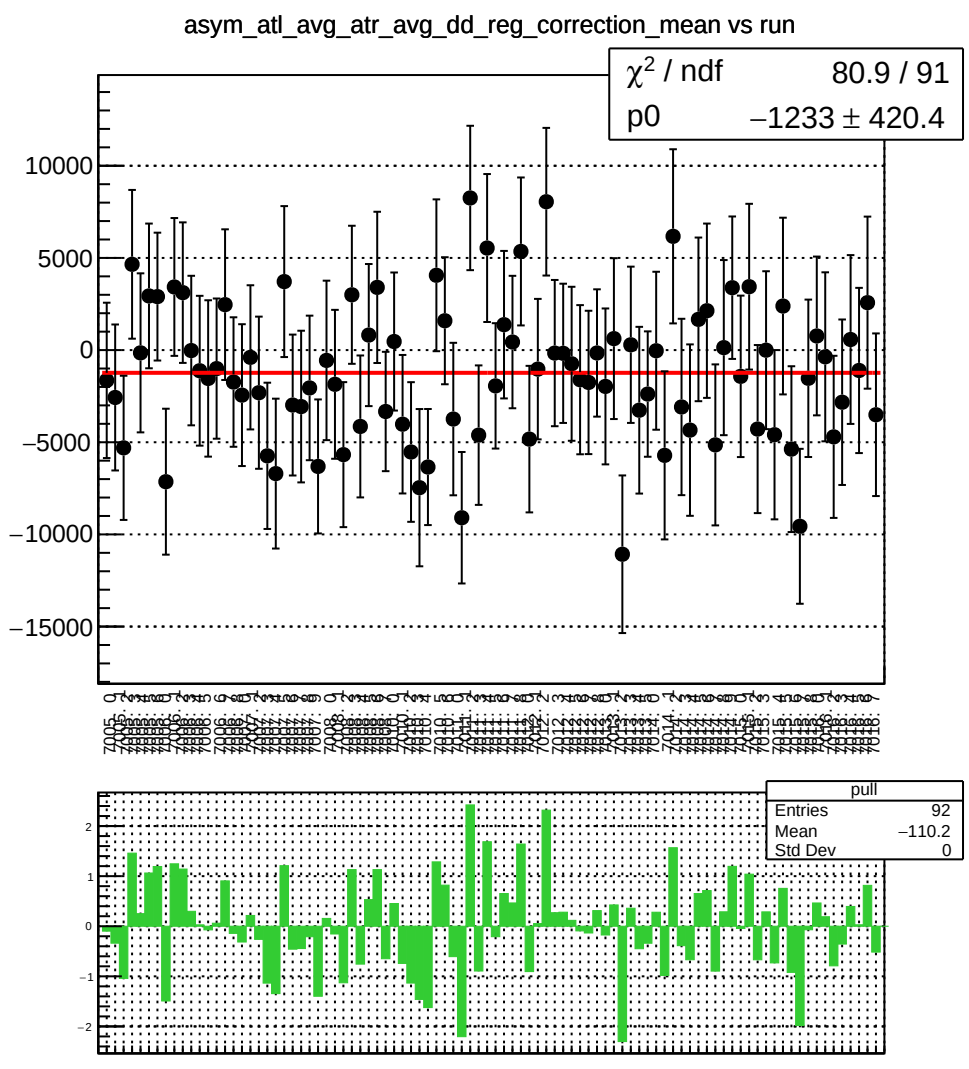

pull1D
Entries 92
Mean 0.1119
Std Dev 0.9866

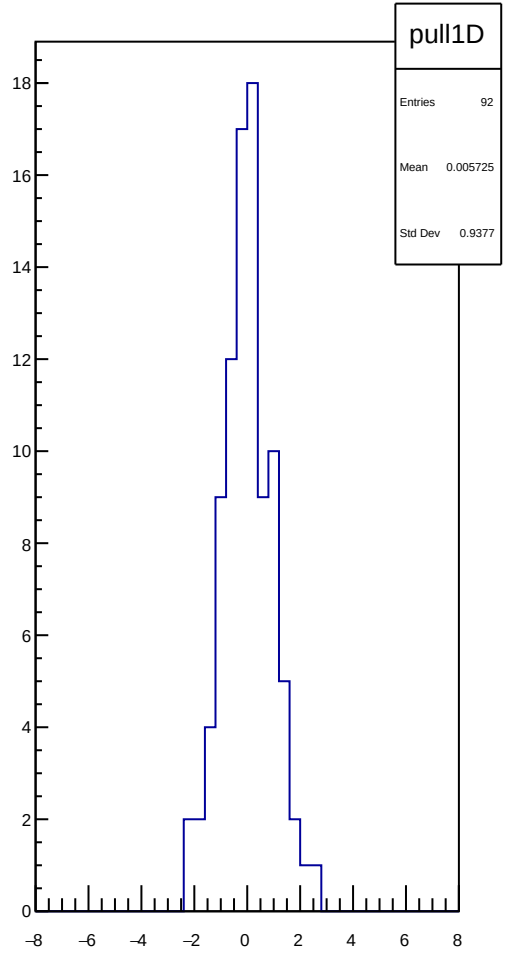

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.94e+05 / 91
p0 4.596e−11 ± 4.788e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

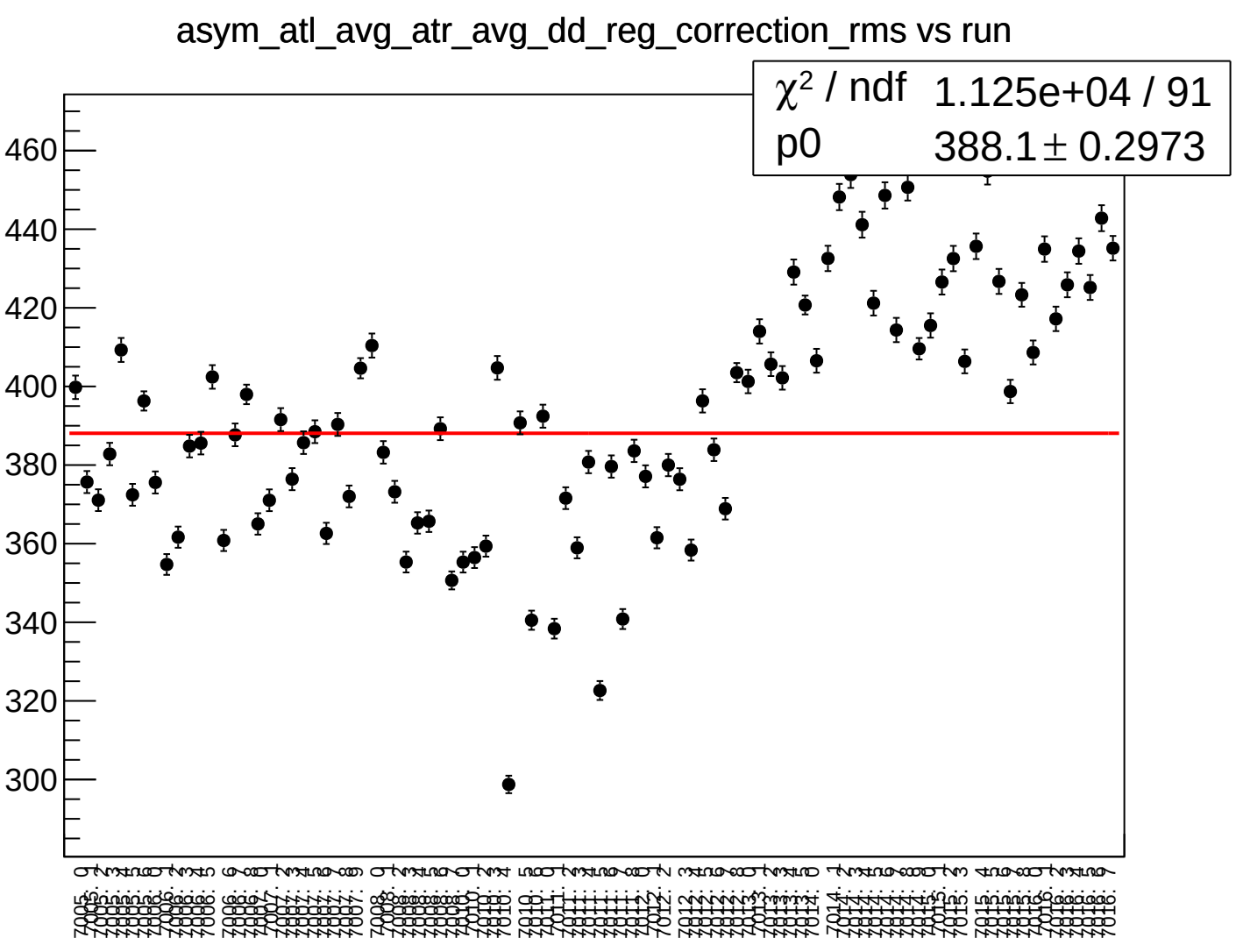

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.93 / 91
p0 1414 ± 1359
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 104
Std Dev 0
2
1
0
−1
−2

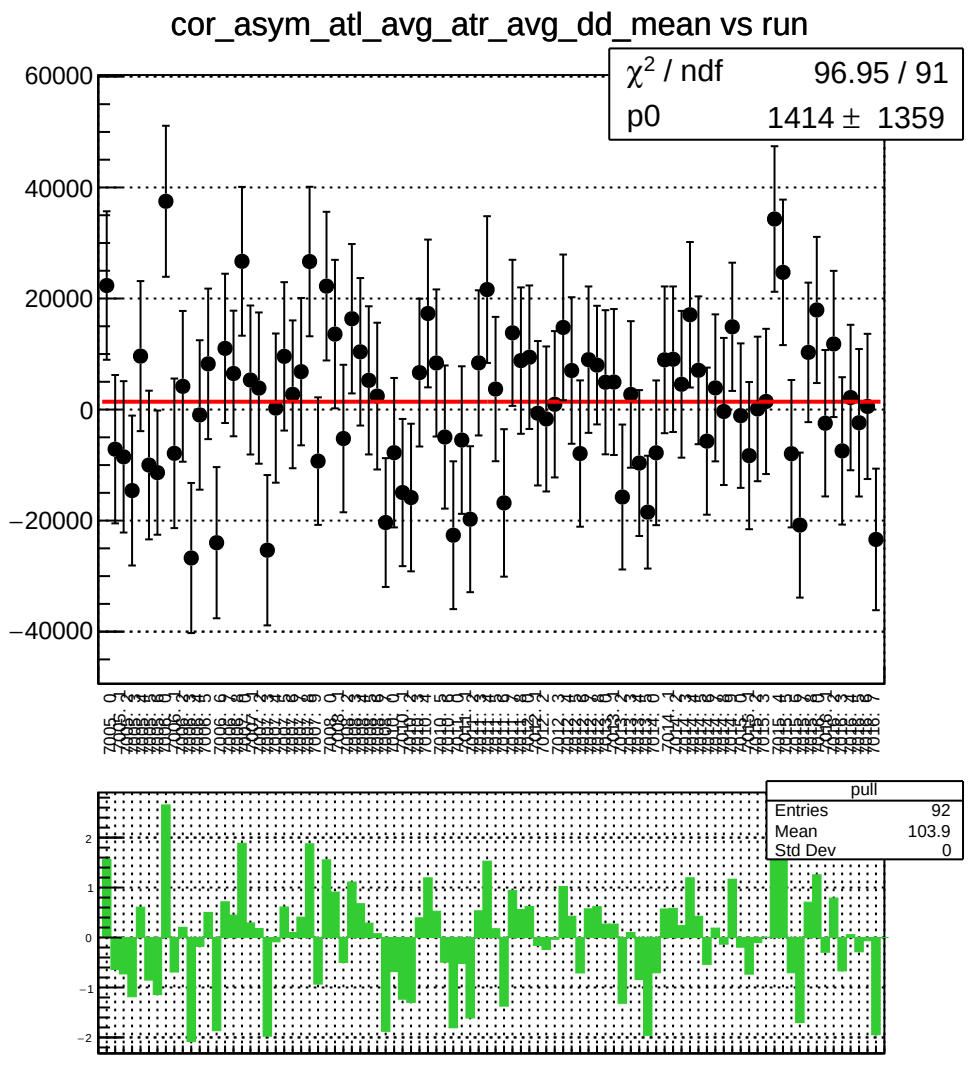

pull1D
Entries 92
Mean 0.008922
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

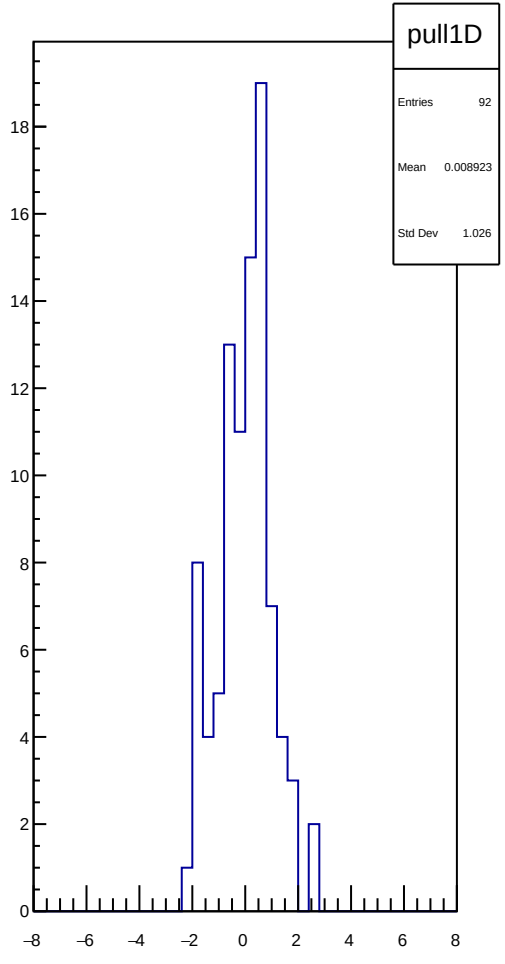

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 283.5 / 91
p0 1259 ± 0.9611
1300
1280
1260
1240
1220

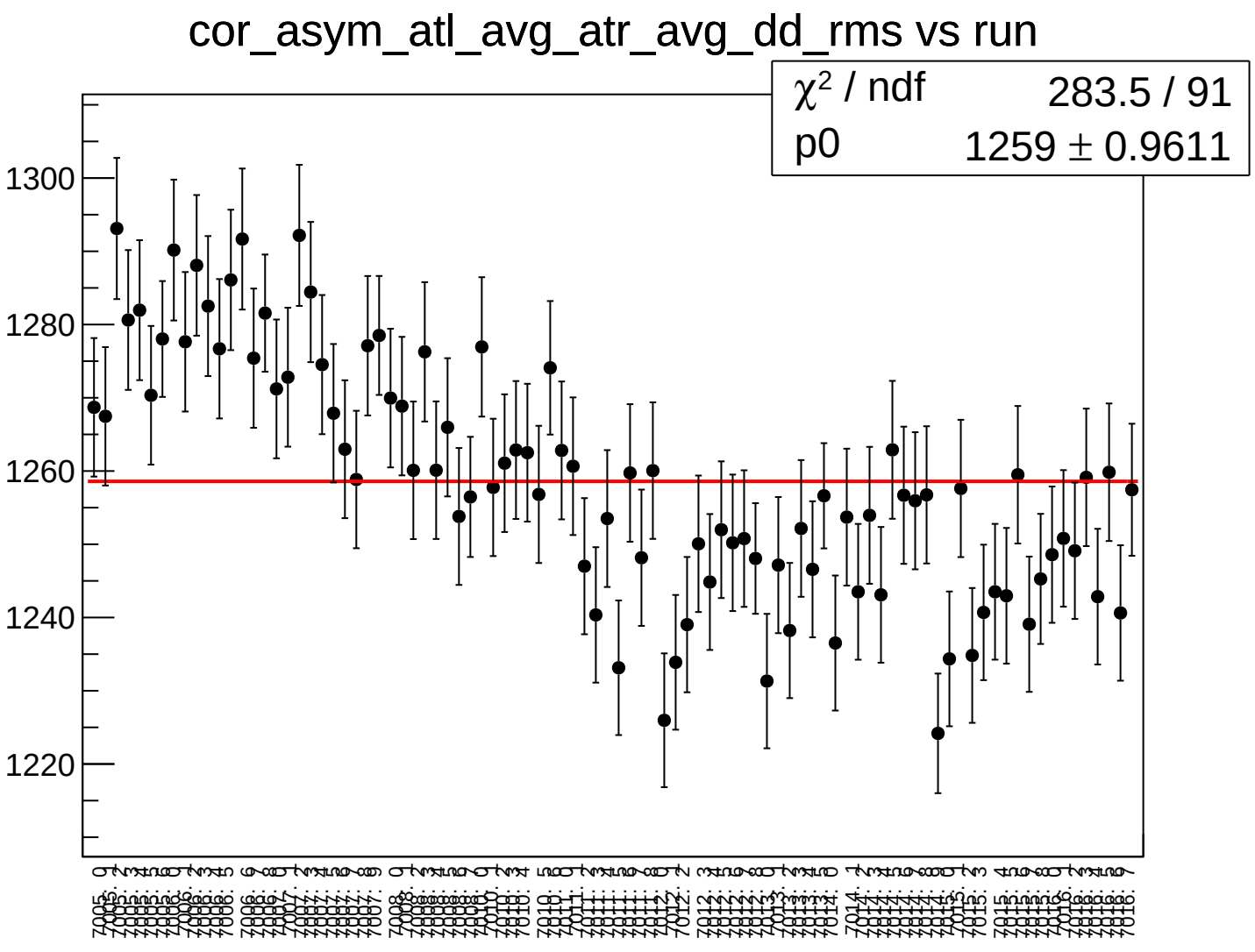

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 80.9 / 91
p0 −1233 ± 420.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −110.2
Std Dev 0
2
1
0
−1
−2

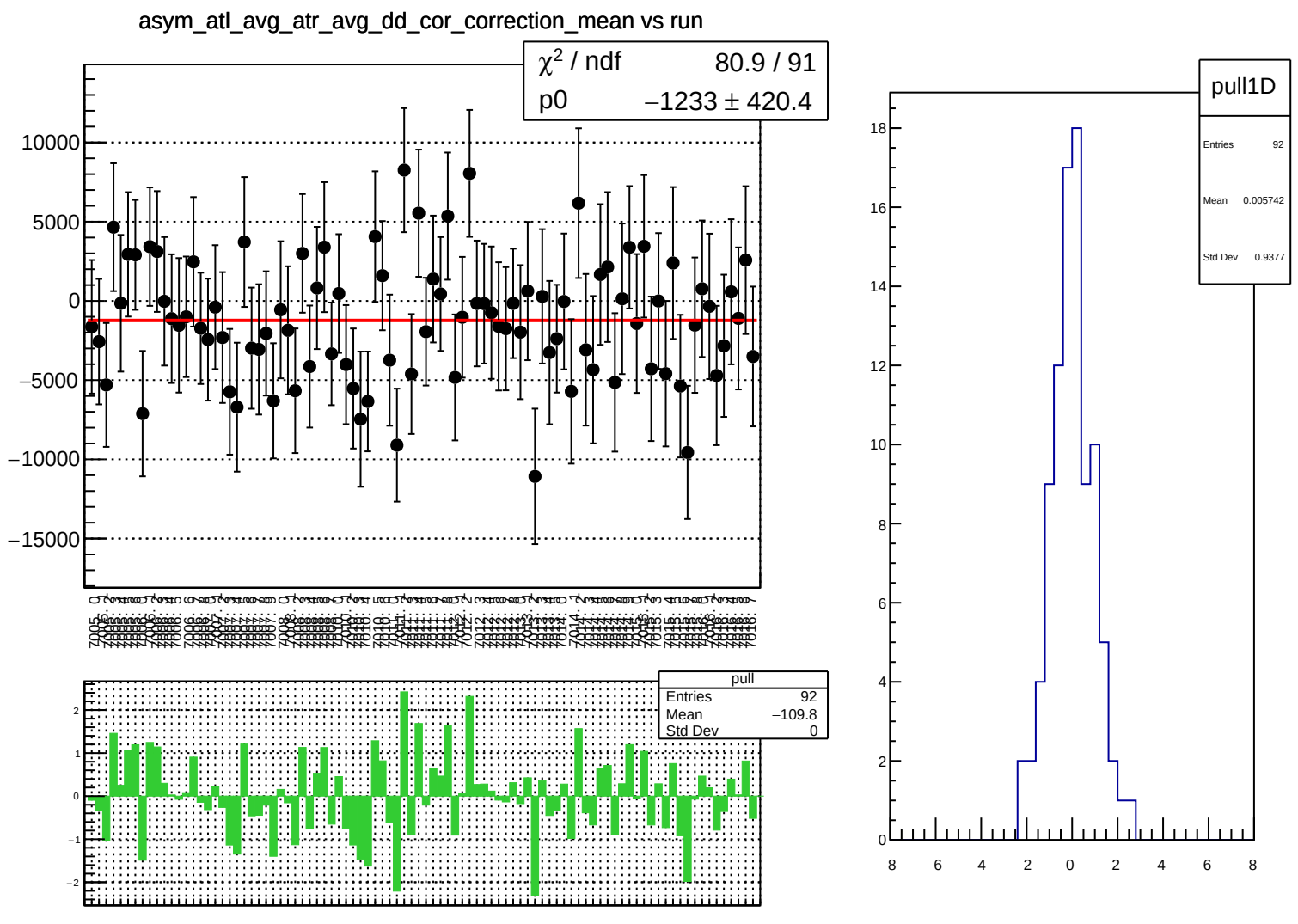

pull1D
Entries 92
Mean 0.005725
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

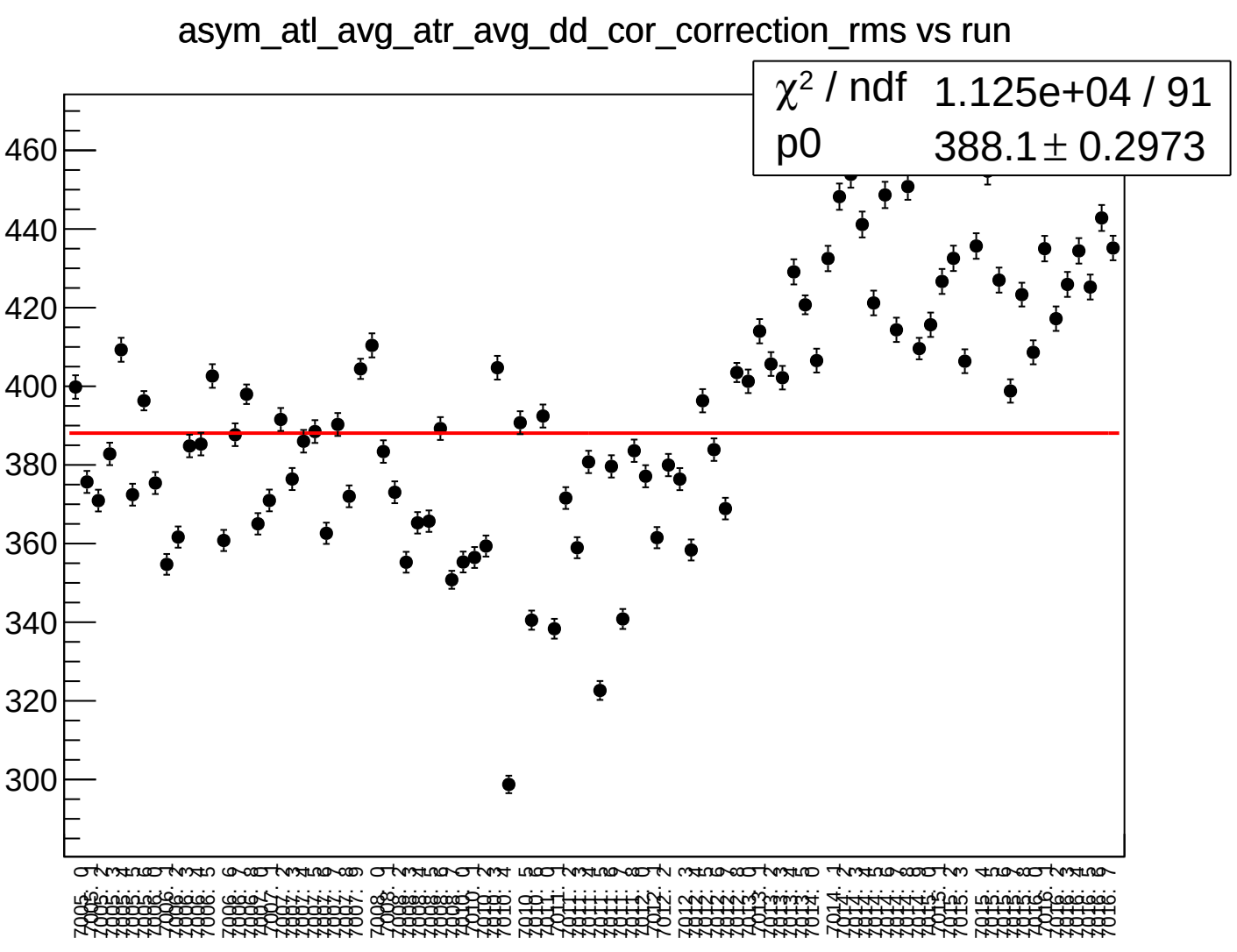

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.125e+04 / 91
p0 388.1 ± 0.2973
460
440
420
400
380
360
340
320
300

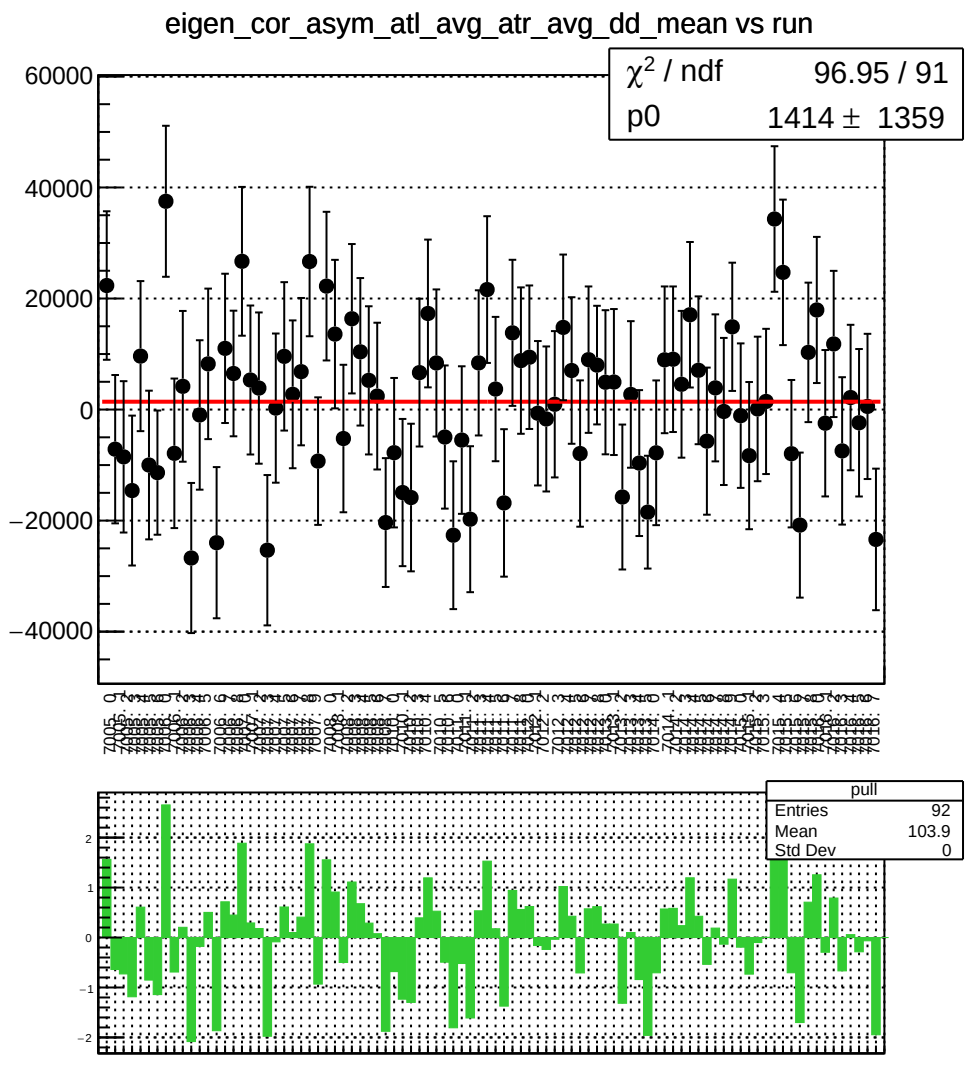

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.95 / 91
p0 1414 ± 1359
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 103.9
Std Dev 0
2
1
0
−1
−2

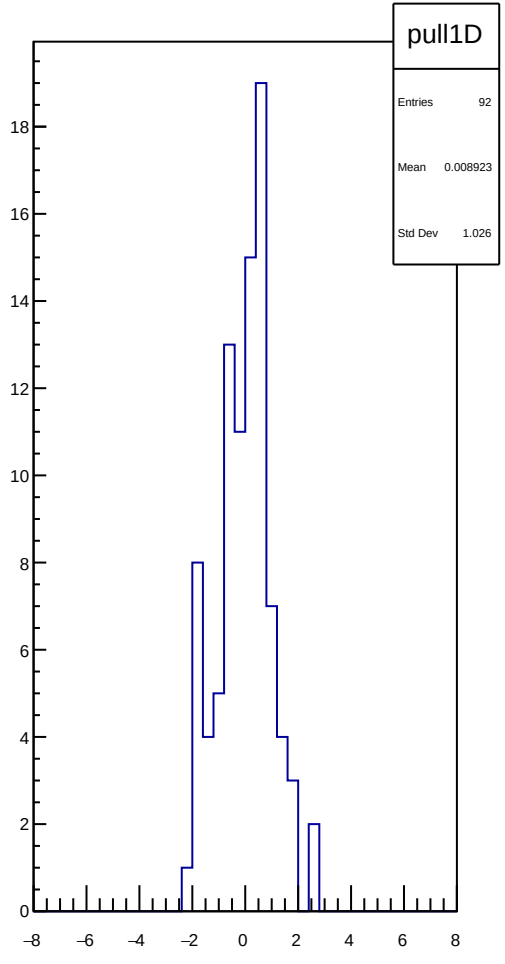

pull1D
Entries 92
Mean 0.008923
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

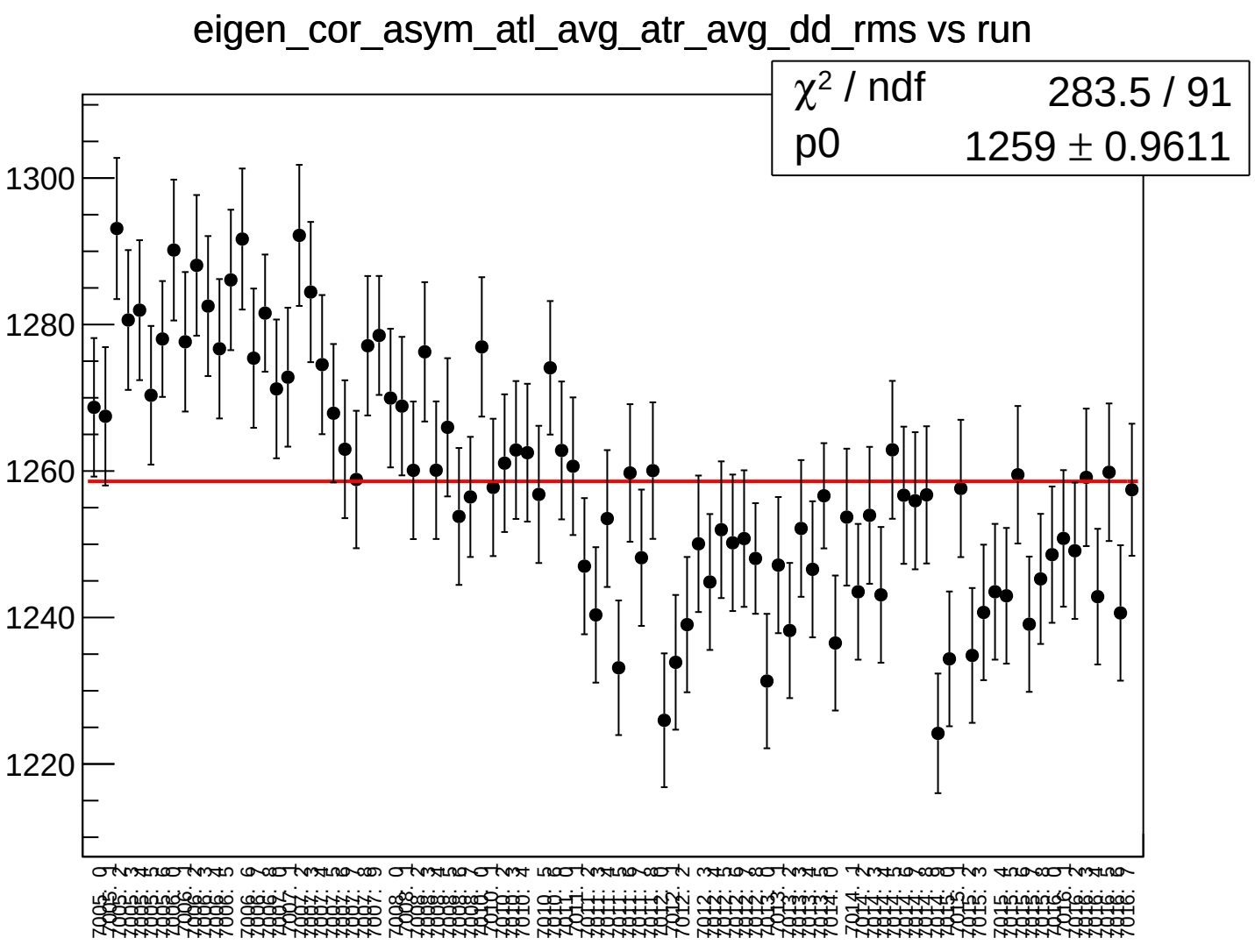

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 283.5 / 91
p0 1259 ± 0.9611
1300
1280
1260
1240
1220

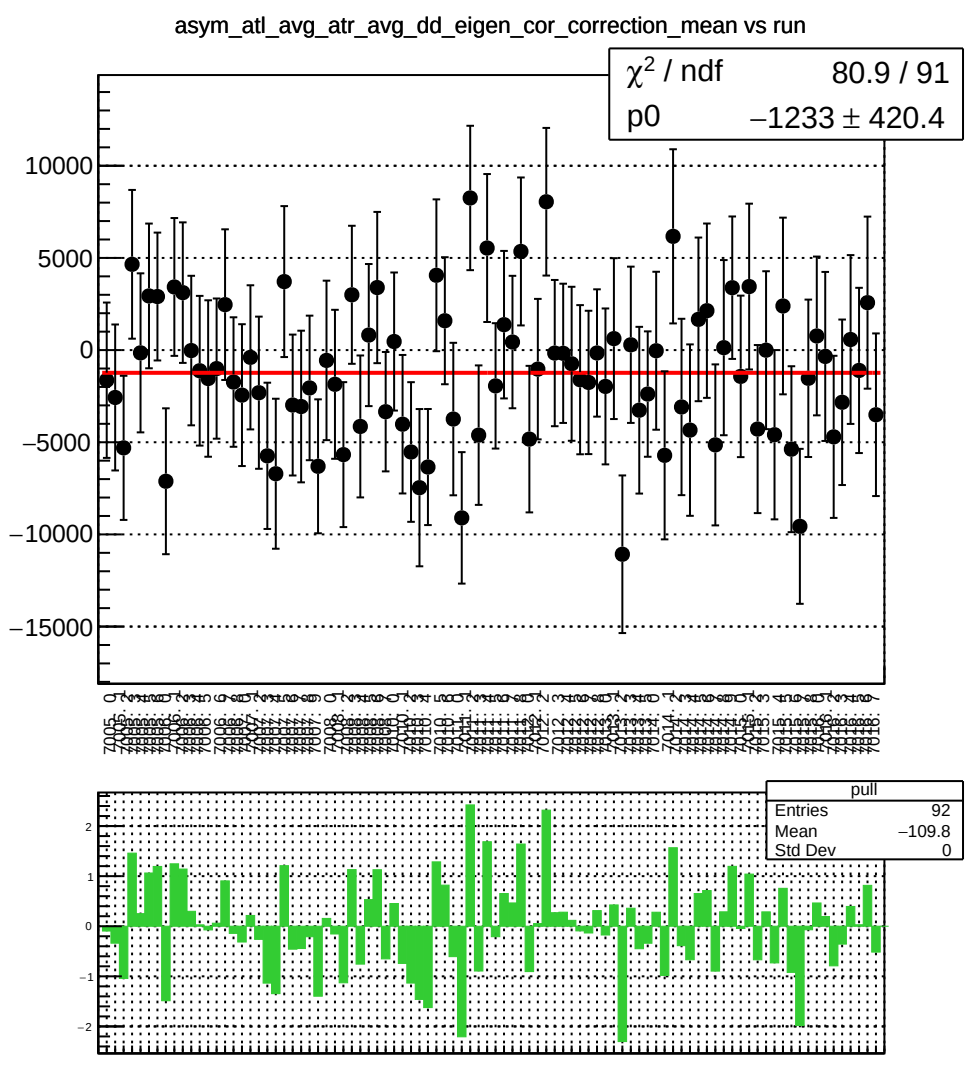

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 80.9 / 91
p0 −1233 ± 420.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −109.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005742
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

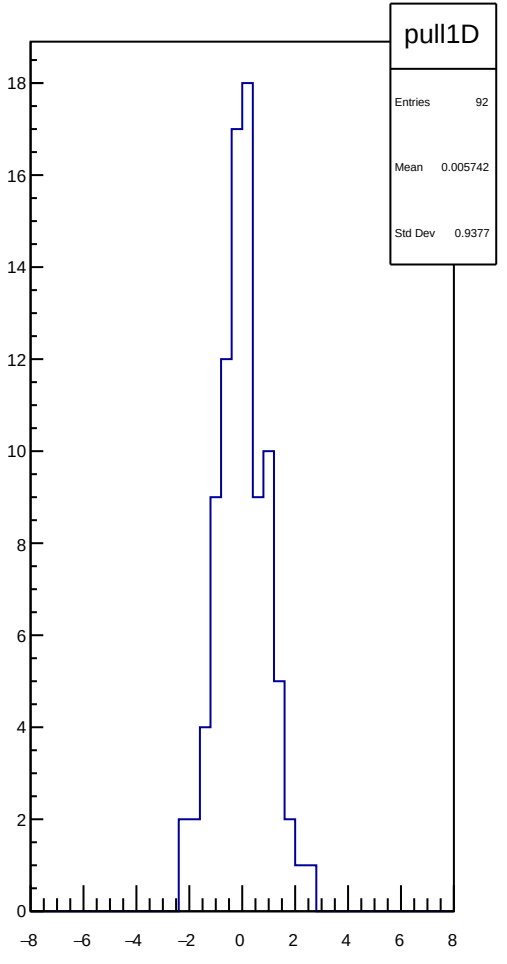

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.125e+04 / 91
p0 388.1 ± 0.2973
460
440
420
400
380
360
340
320
300

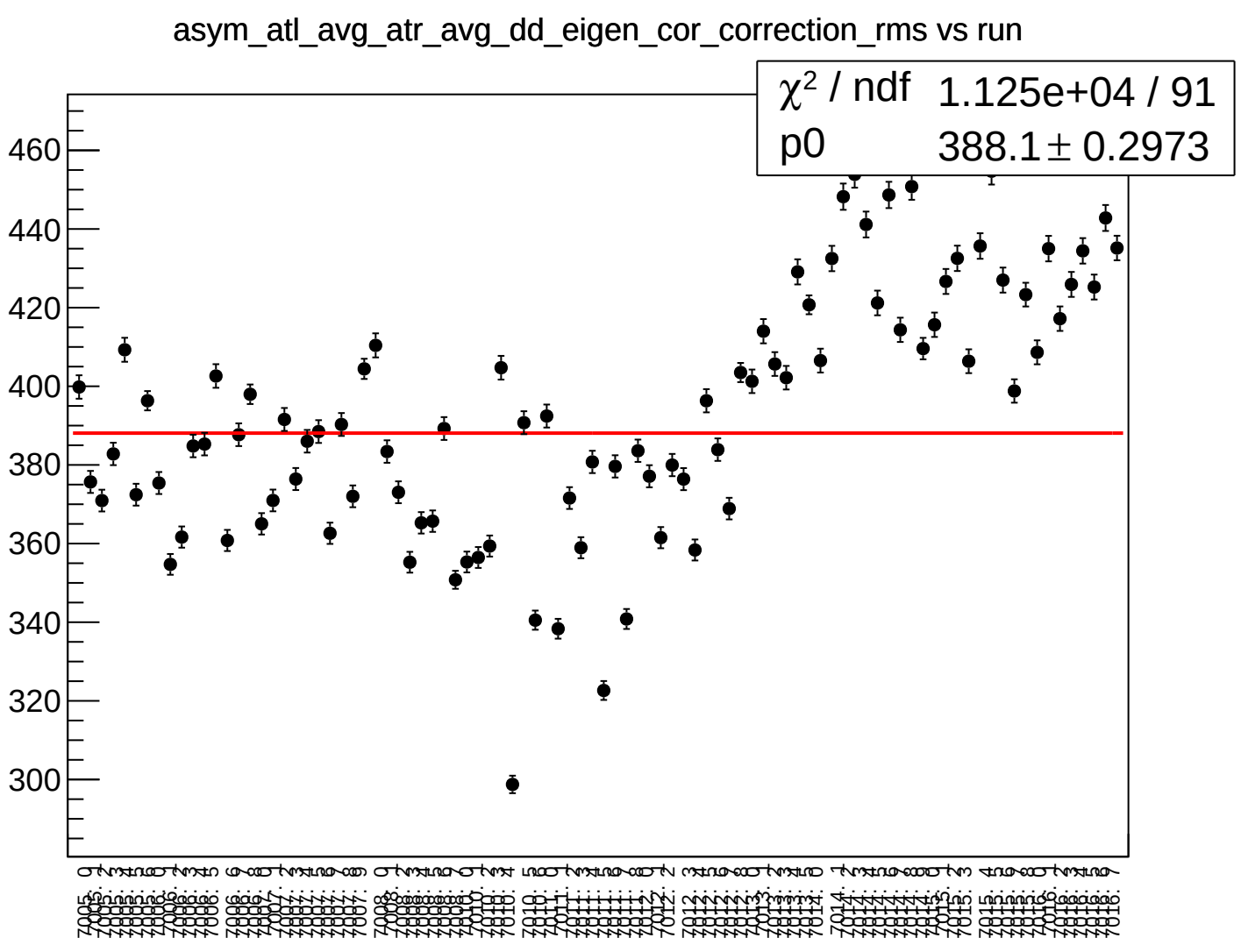

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.95 / 91
p0 1414 ± 1359
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 103.9
Std Dev 0
2
1
0
−1
−2

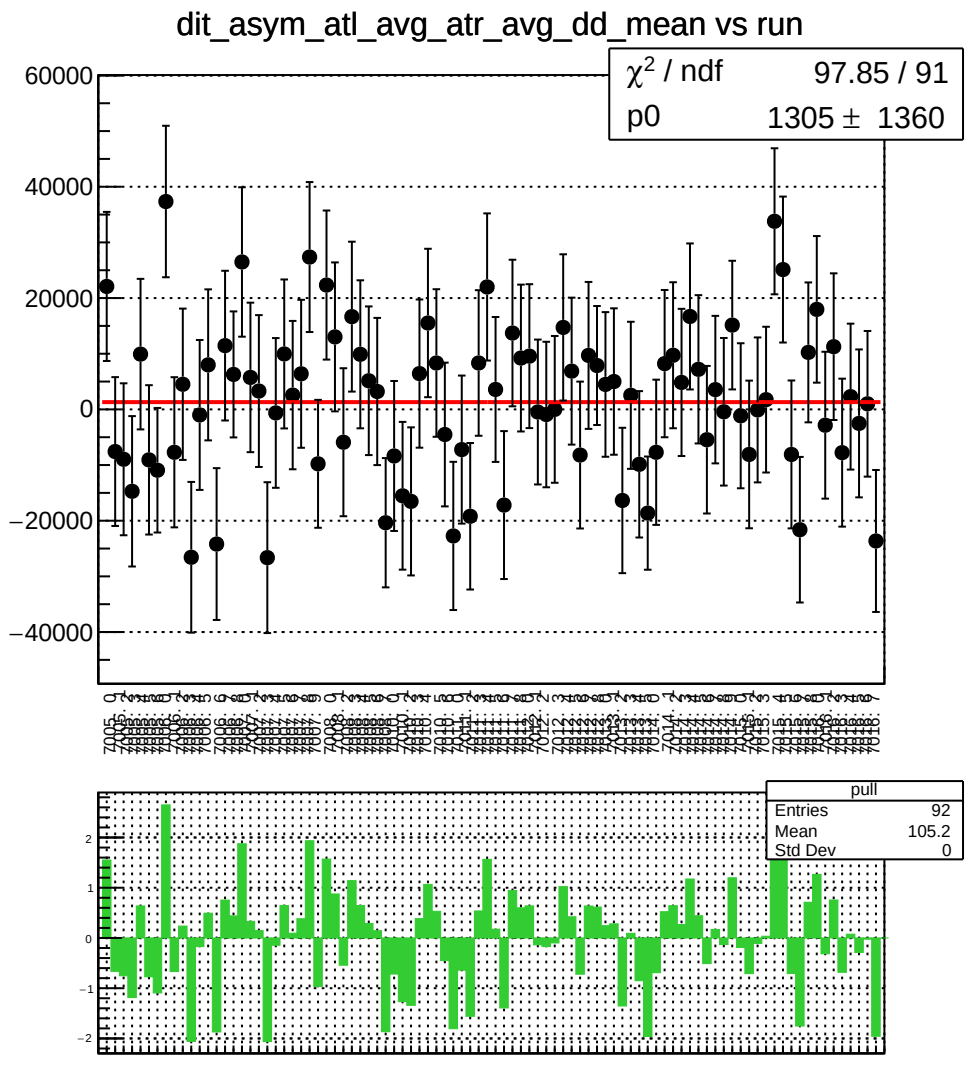

pull1D
Entries 92
Mean 0.008923
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

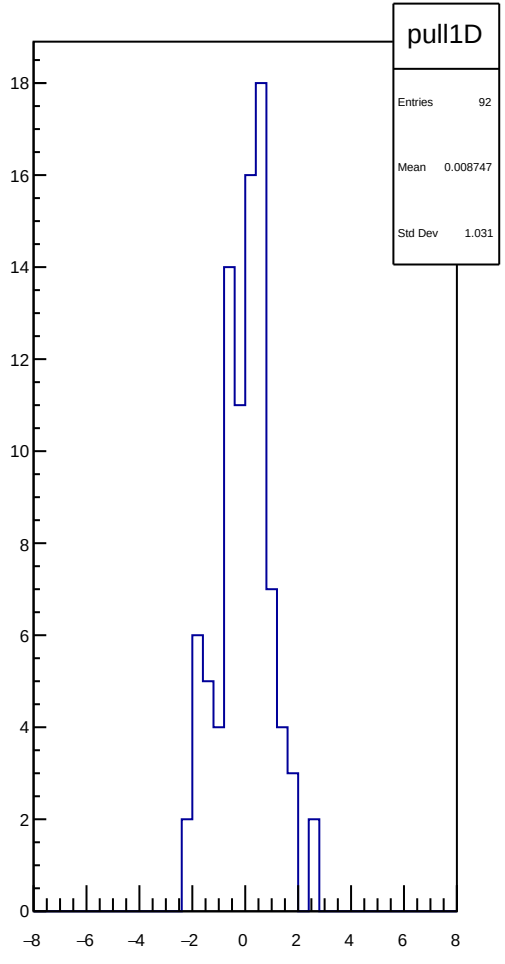

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 283.5 / 91
p0 1259 ± 0.9611
1300
1280
1260
1240
1220

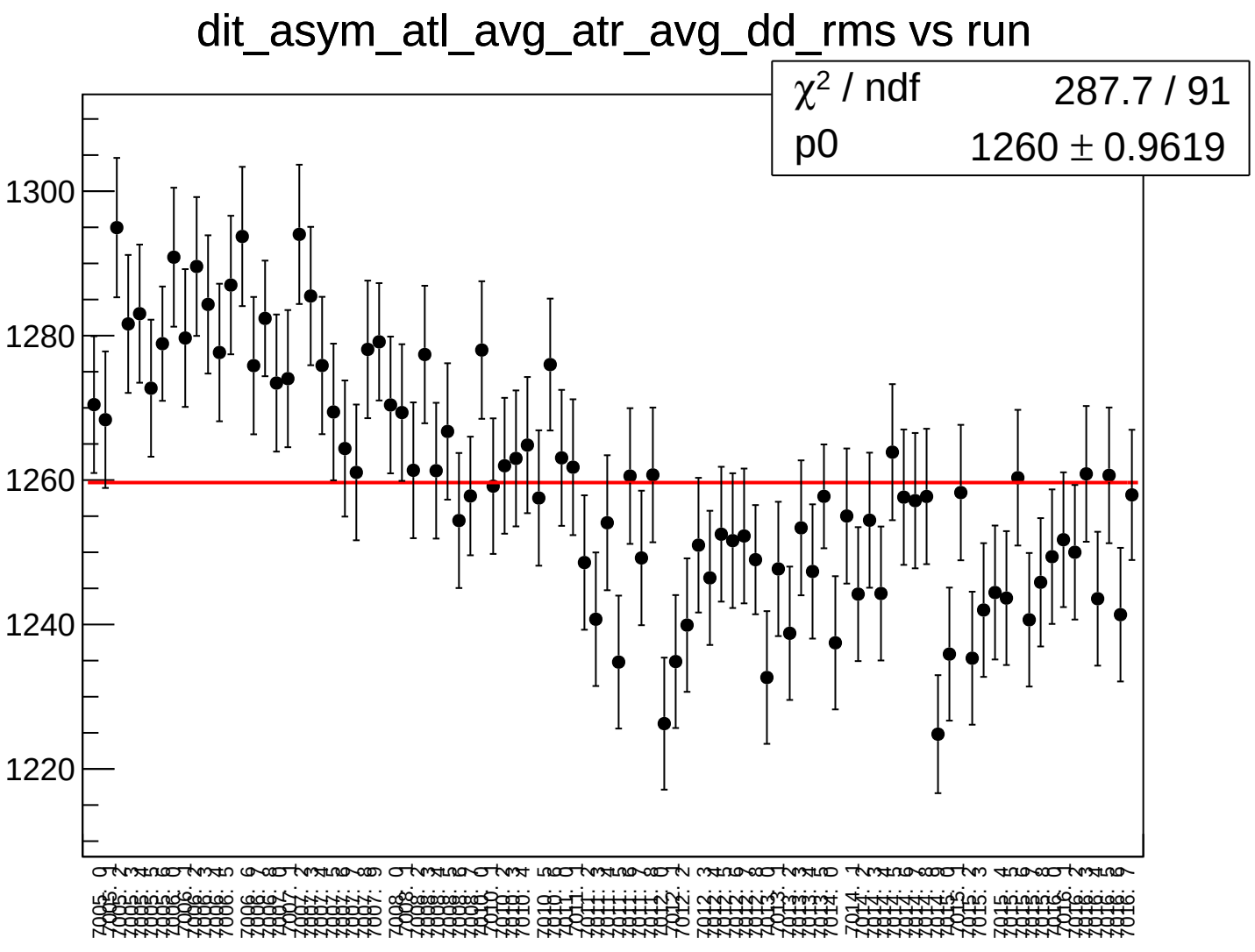

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.9 / 91
p0 −1233 ± 420.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −109.8
Std Dev 0
2
1
0
−1
−2

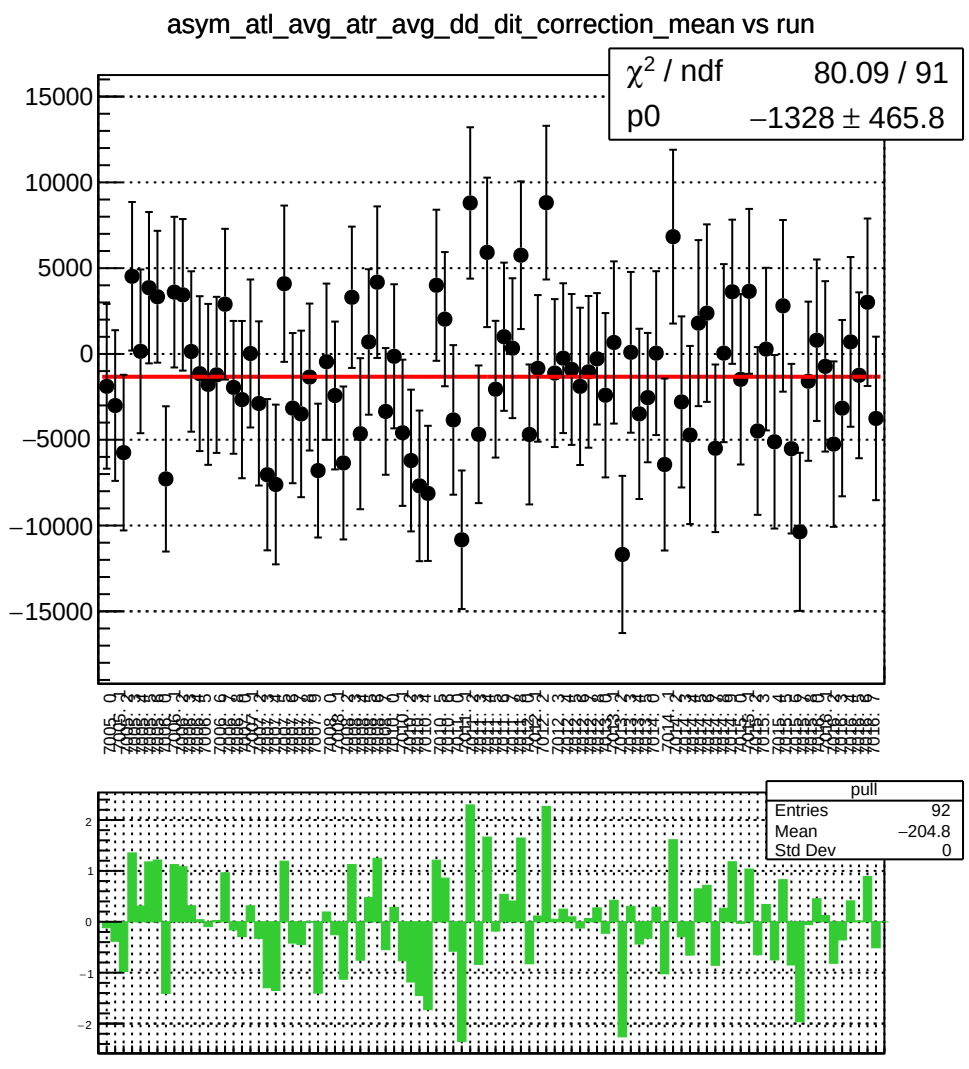

pull1D
Entries 92
Mean 0.005742
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

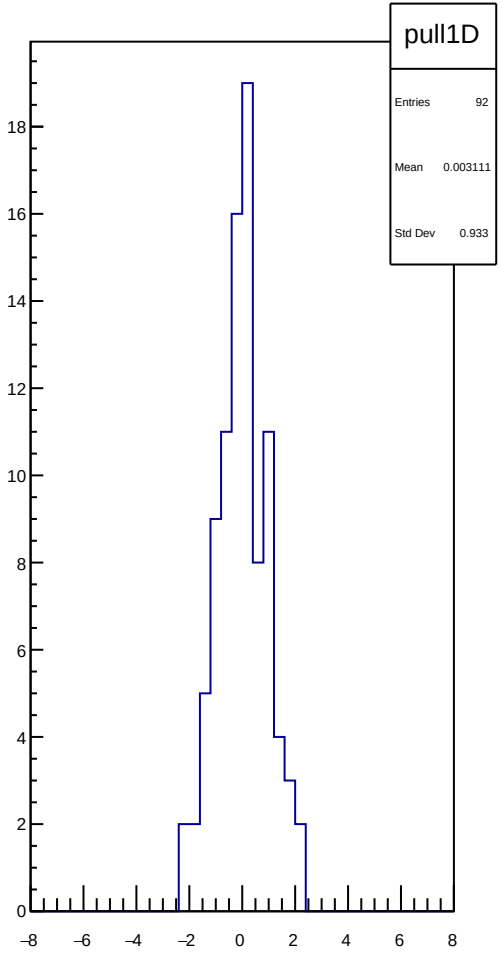

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.125e+04 / 91
p0 388.1 ± 0.2973
460
440
420
400
380
360
340
320
300

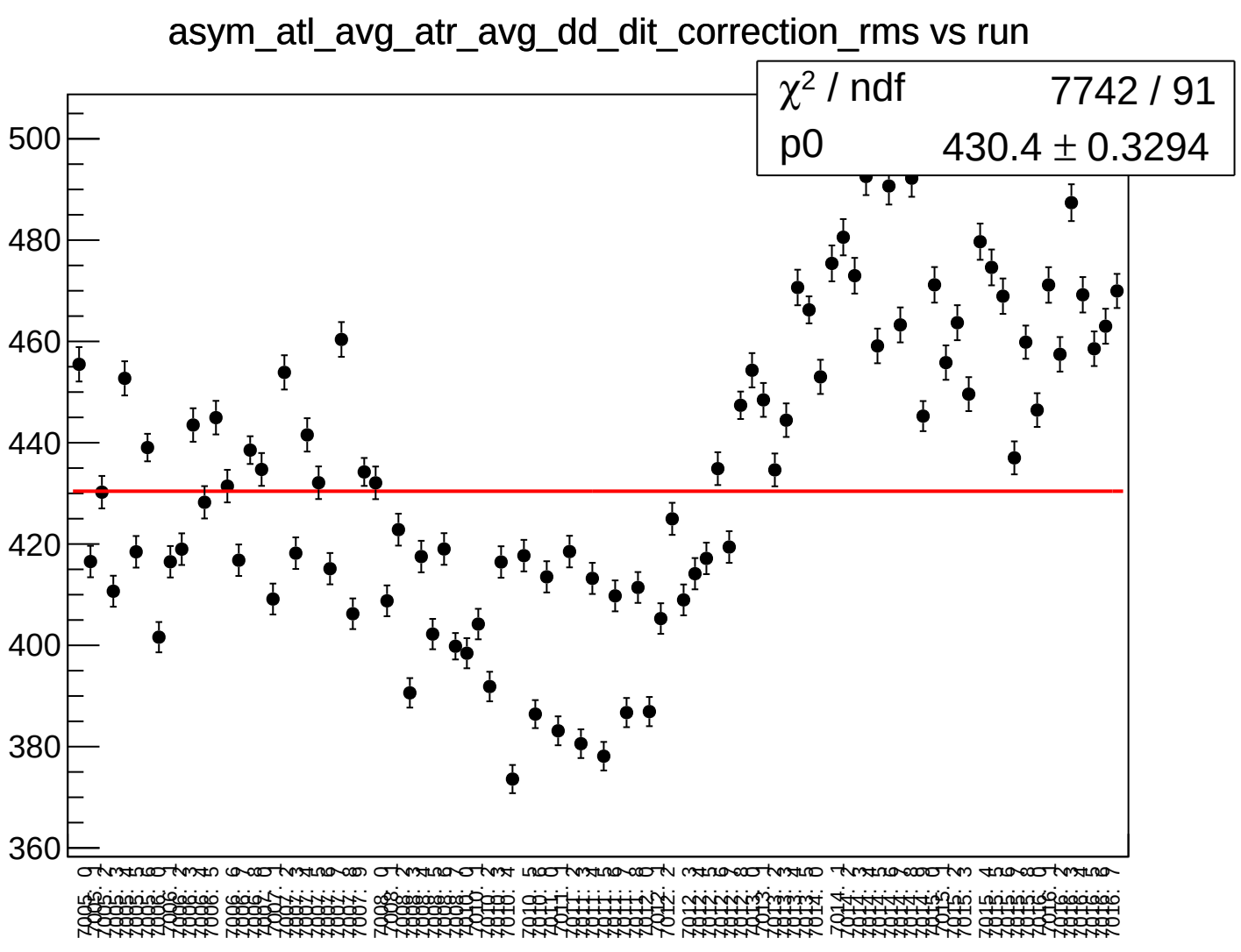

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.85 / 91
p0 1305 ± 1360
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 105.2
Std Dev 0
2
1
0
−1
−2

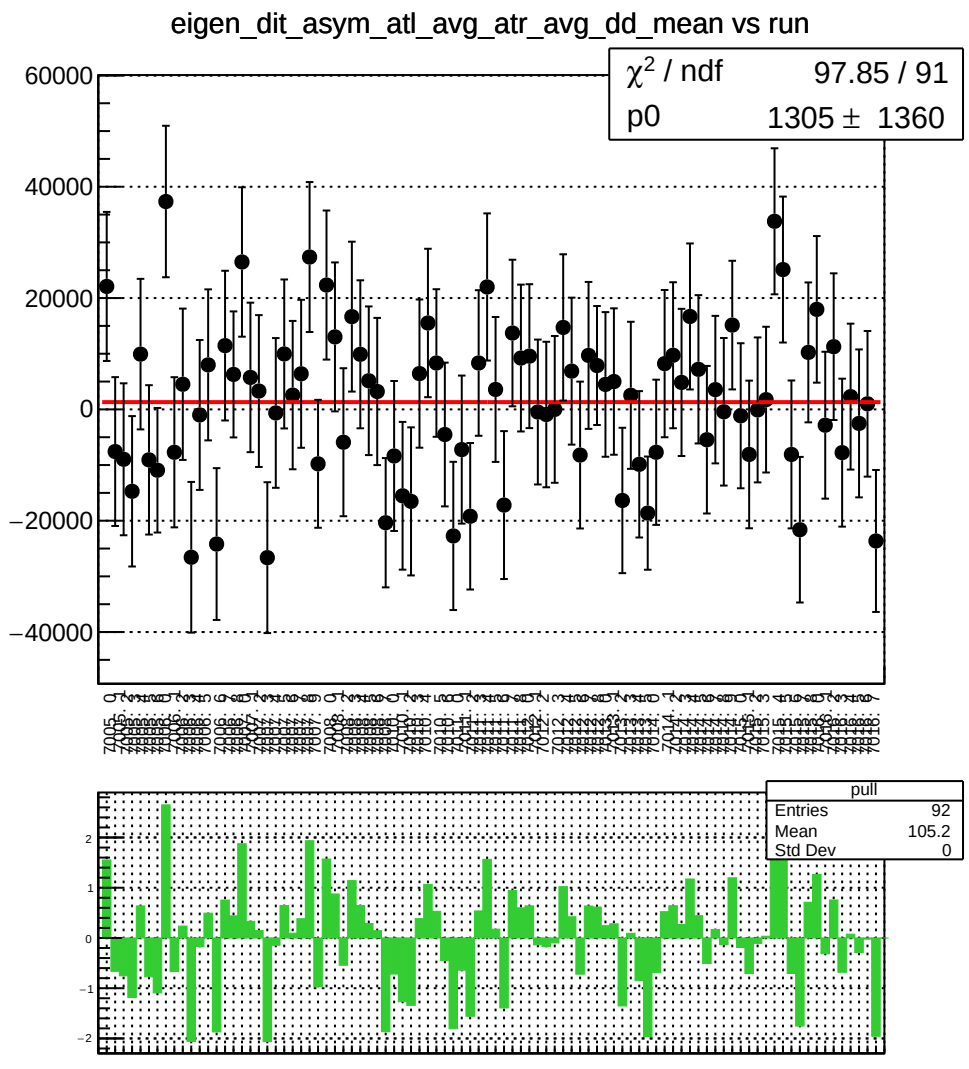

pull1D
Entries 92
Mean 0.008747
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

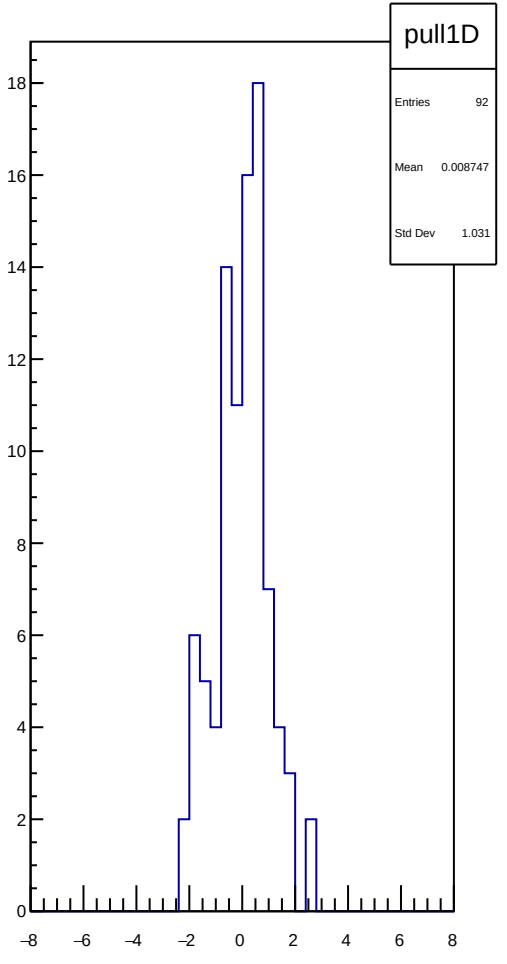

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 287.7 / 91
p0 1260 ± 0.9619
1300
1280
1260
1240
1220

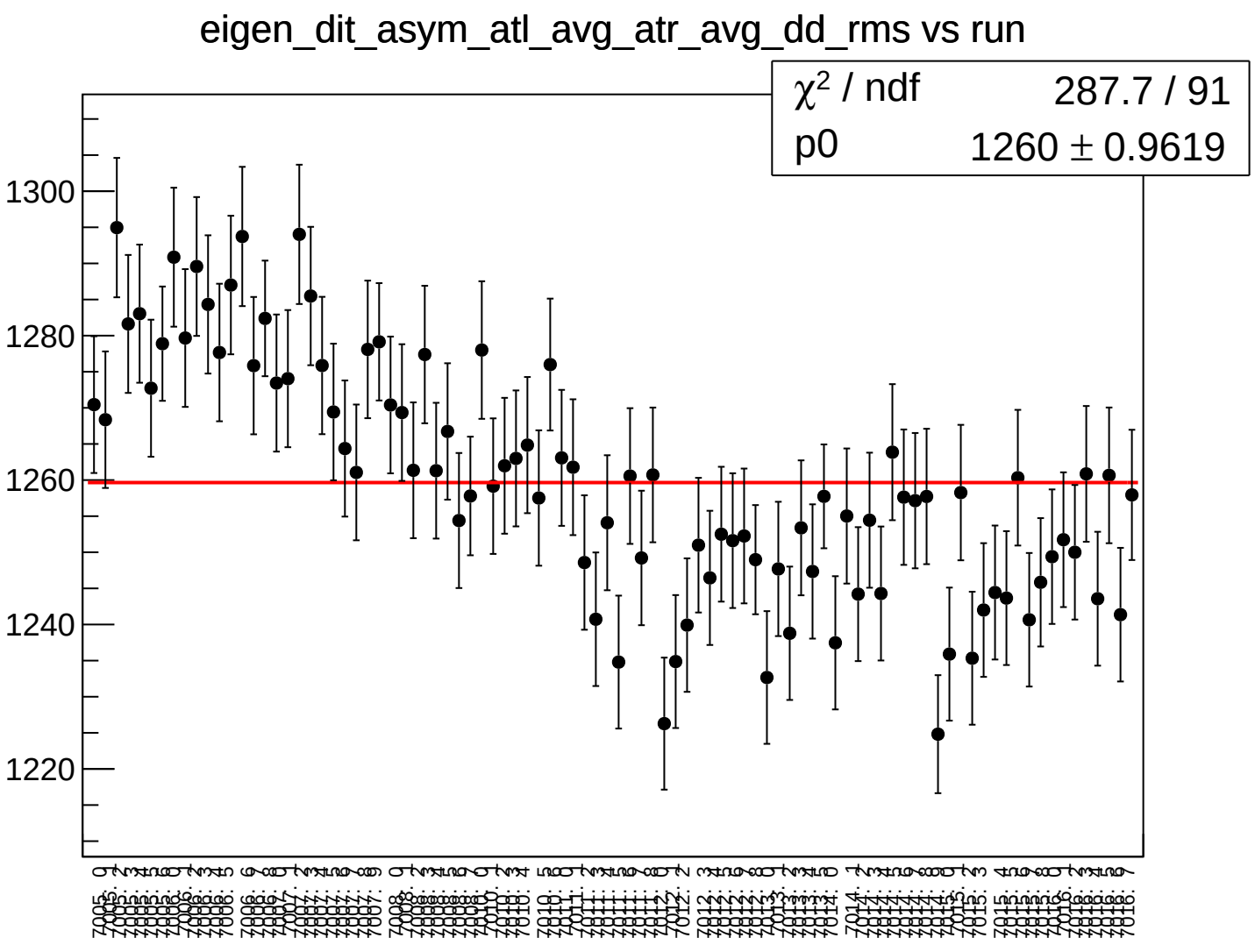

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 80.09 / 91
p0 −1328 ± 465.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −204.8
Std Dev 0
2
1
0
−1
−2

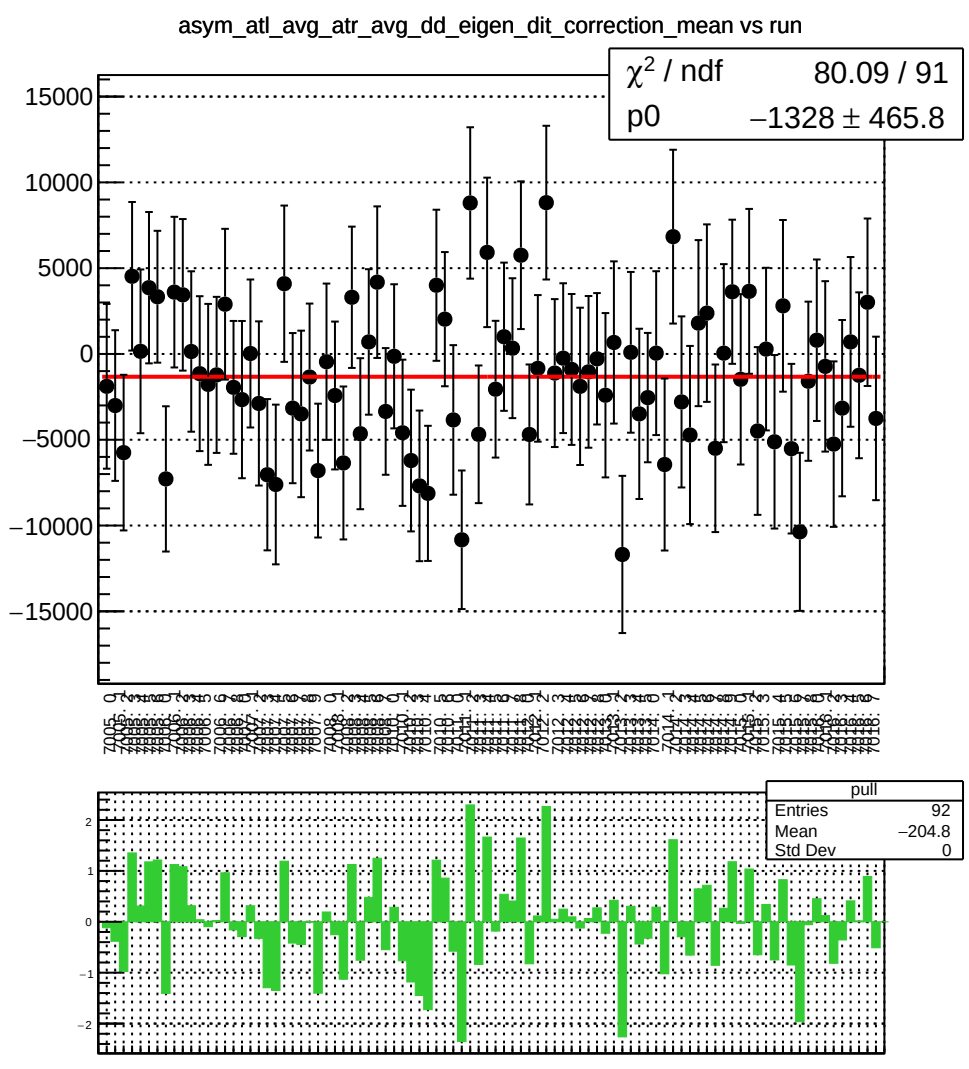

pull1D
Entries 92
Mean 0.003111
Std Dev 0.933
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

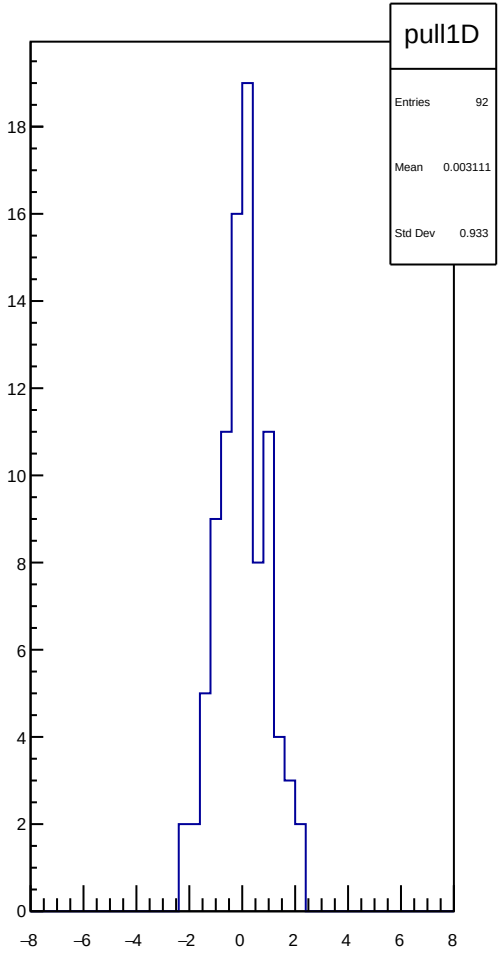

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 7742 / 91
p0 430.4 ± 0.3294
500
480
460
440
420
400
380
360

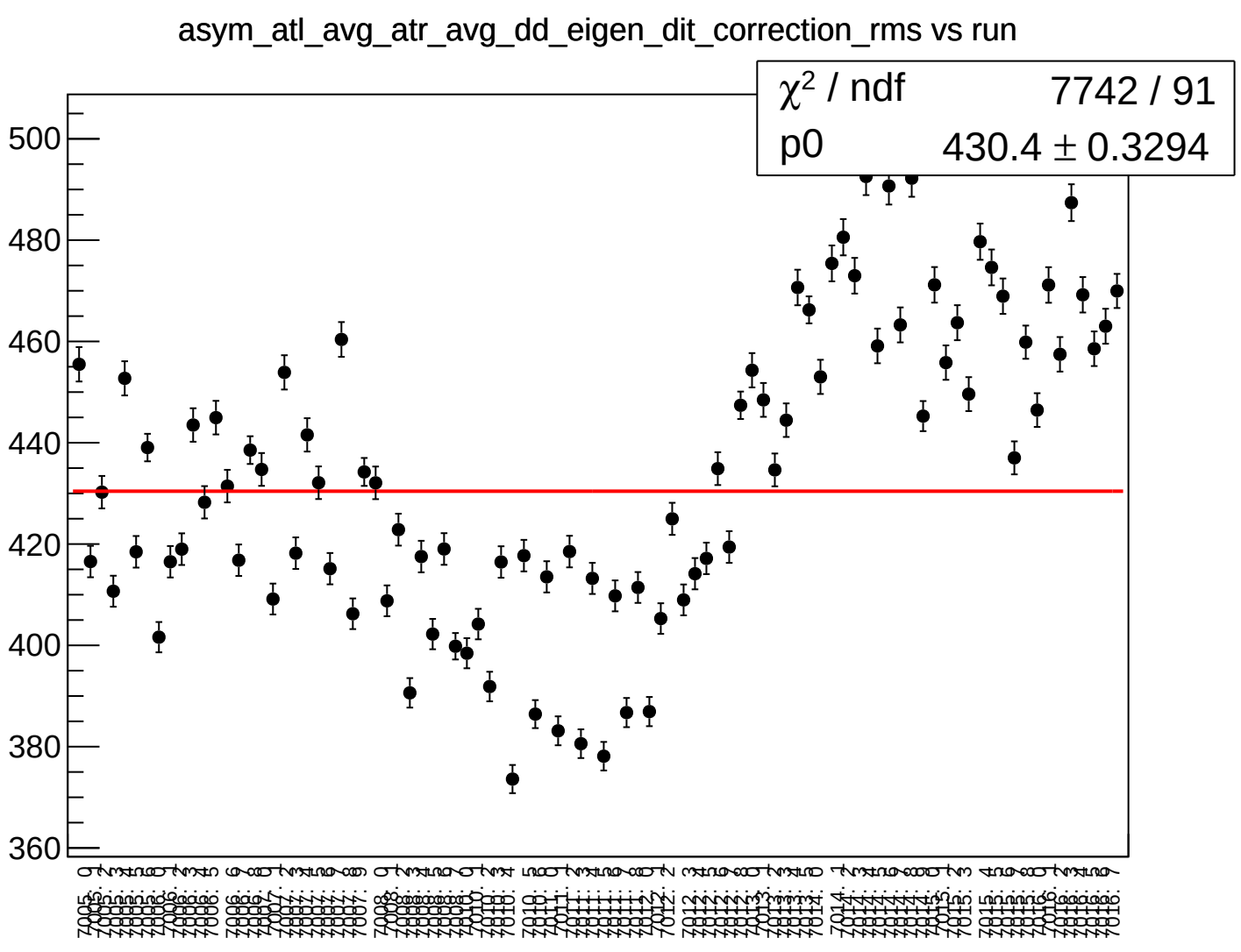

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.85 / 91
p0 1305 ± 1360
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 105.2
Std Dev 0
2
1
0
−1
−2

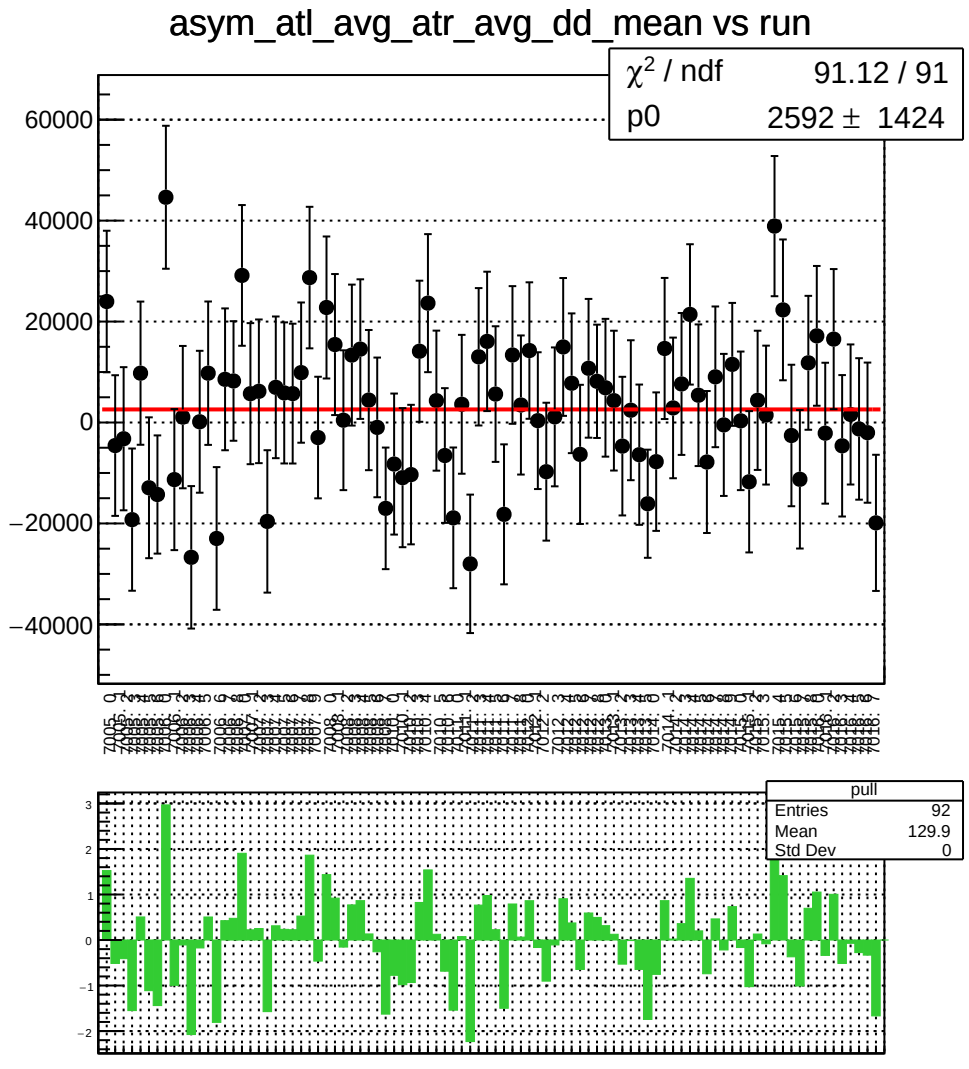

pull1D
Entries 92
Mean 0.008747
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

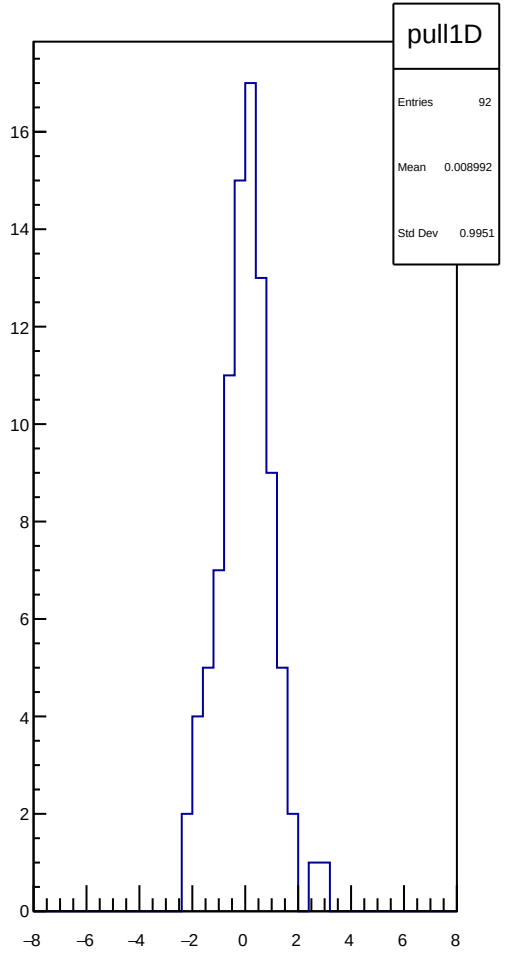

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 287.7 / 91
p0 1260 ± 0.9619
1300
1280
1260
1240
1220

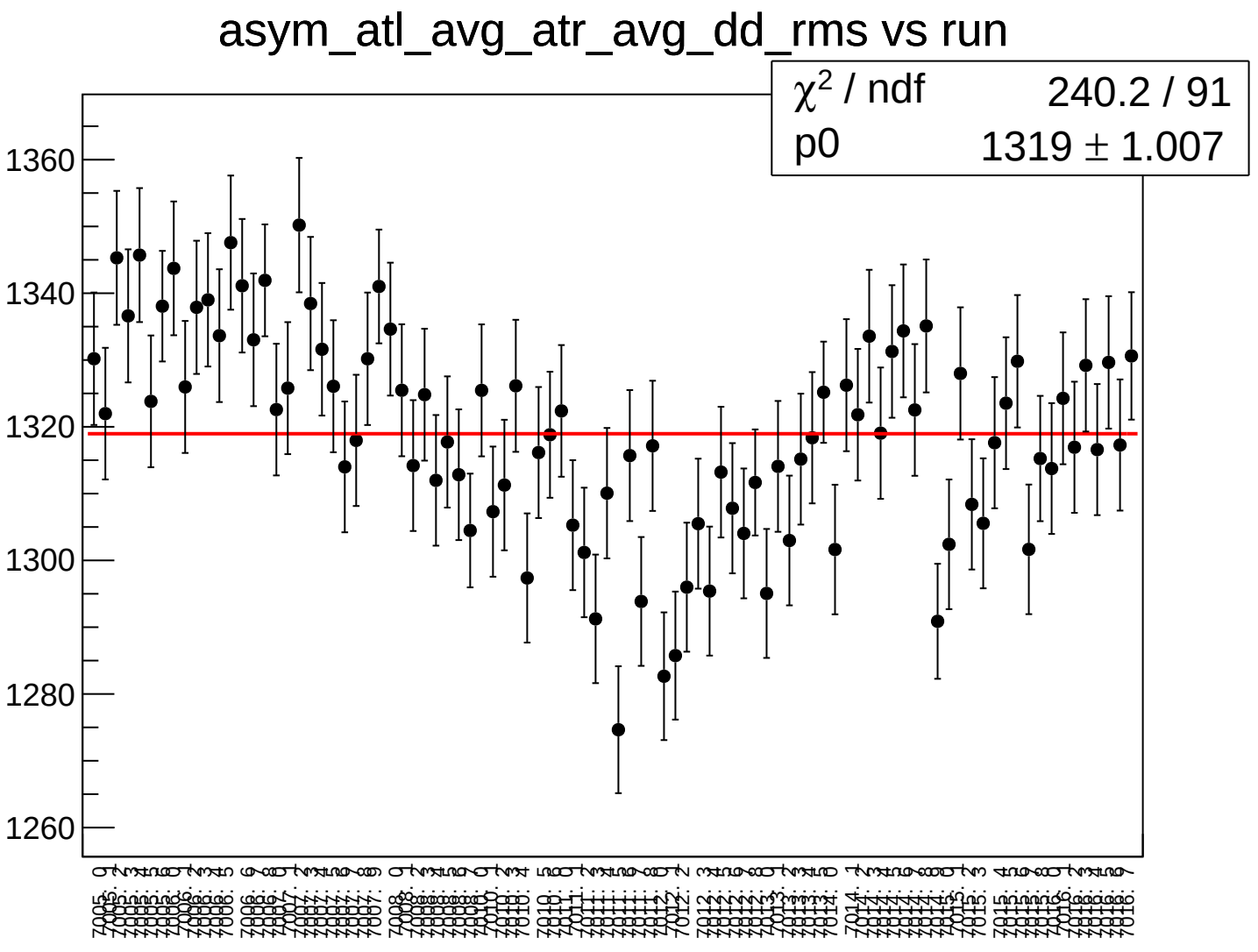

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.09 / 91
p0 −1328 ± 465.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −204.8
Std Dev 0
2
1
0
−1
−2

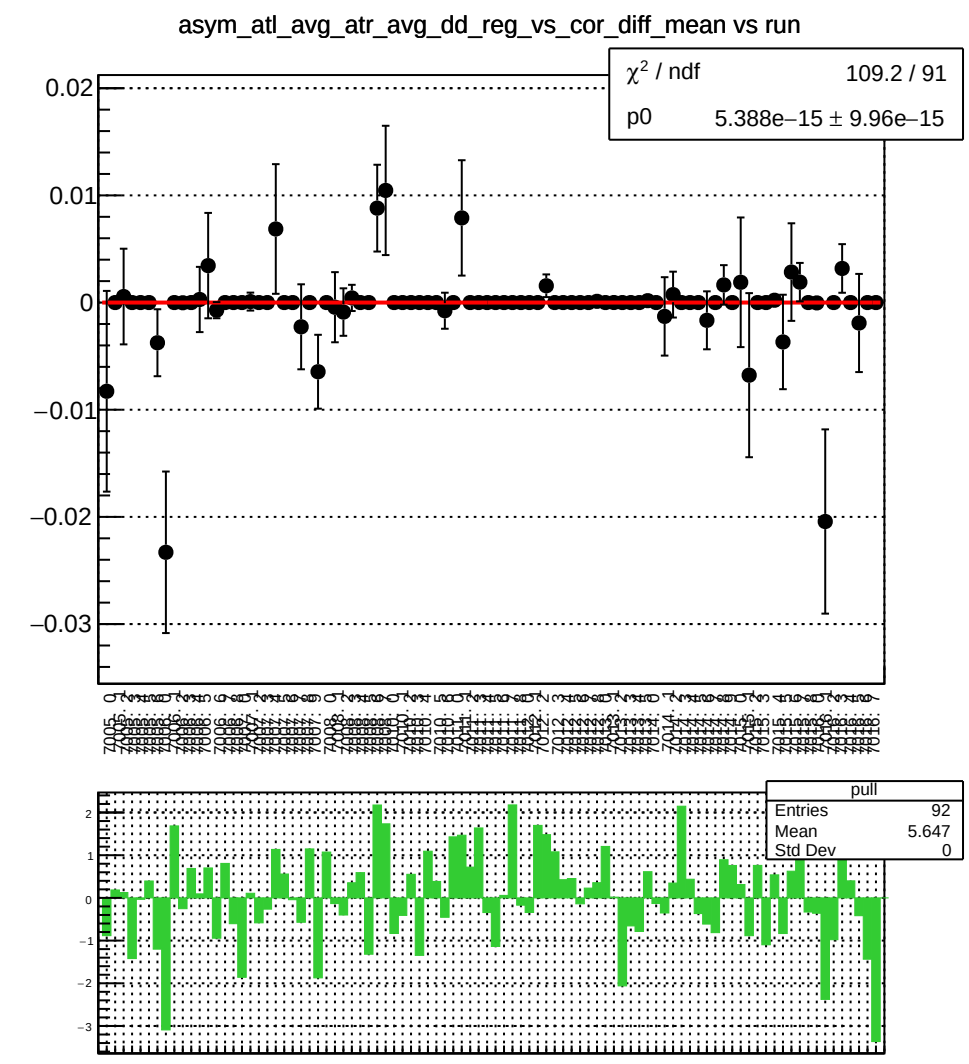

pull1D
Entries 92
Mean 0.003111
Std Dev 0.933
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

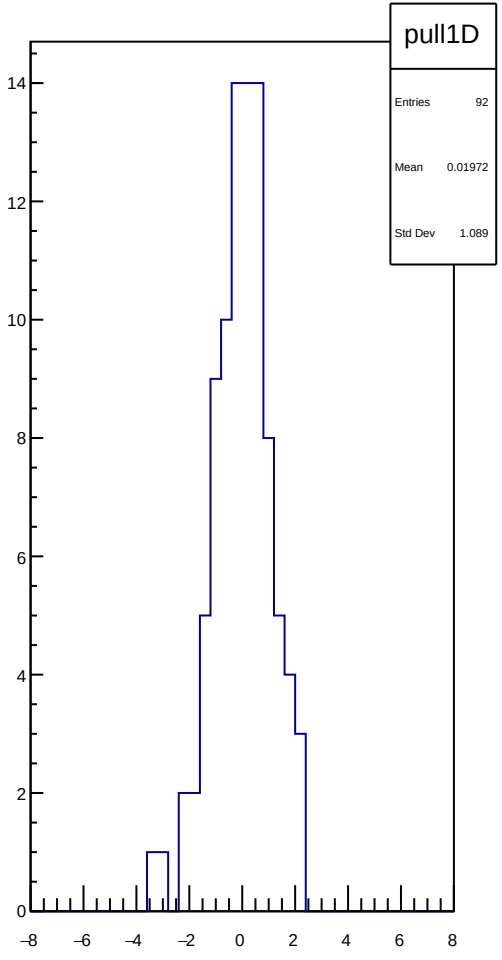

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7742 / 91
p0 430.4 ± 0.3294
500
480
460
440
420
400
380
360

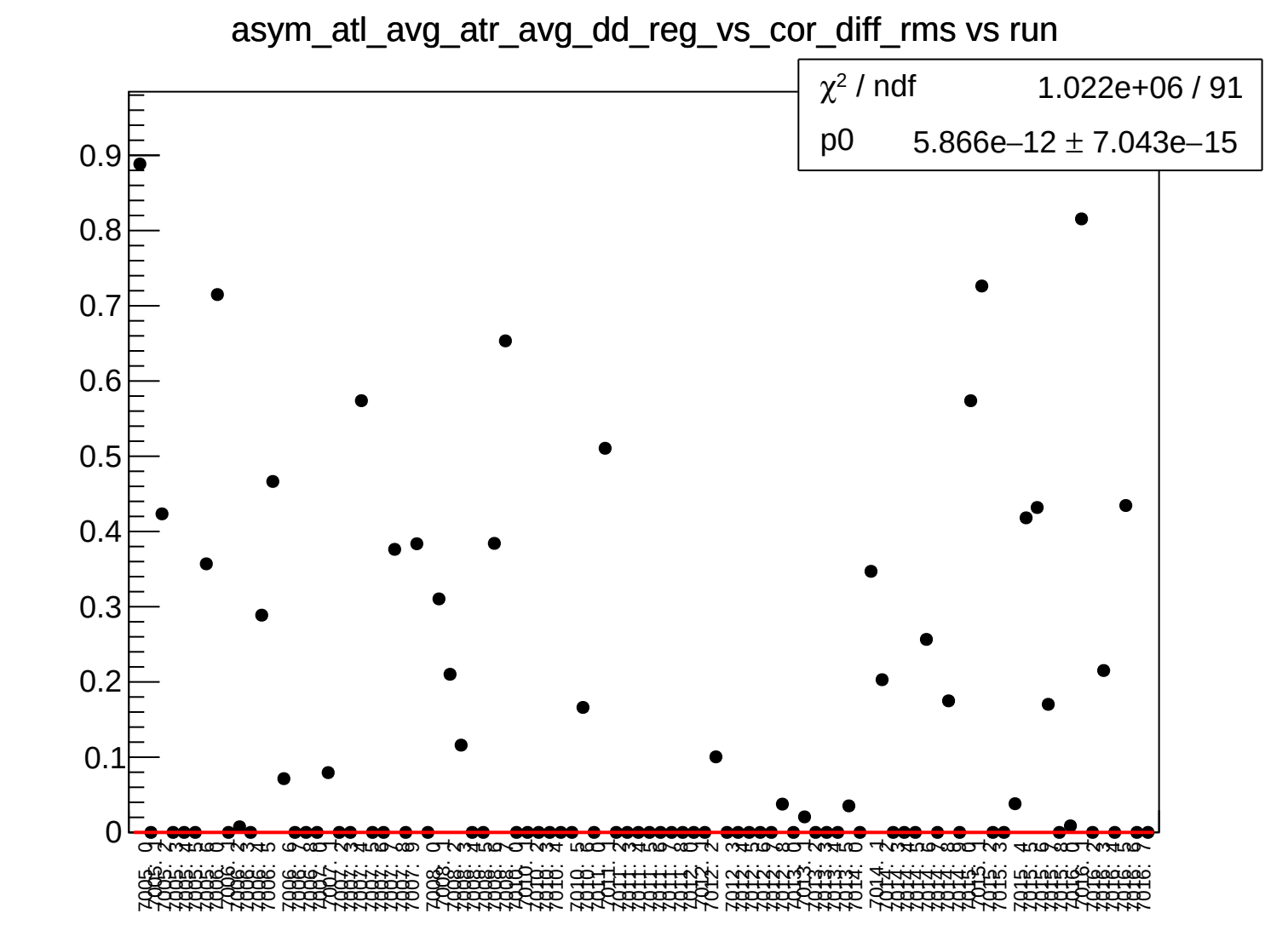

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 91.12 / 91
p0 2592 ± 1424
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 129.9
Std Dev 0
3
2
1
0
−1
−2

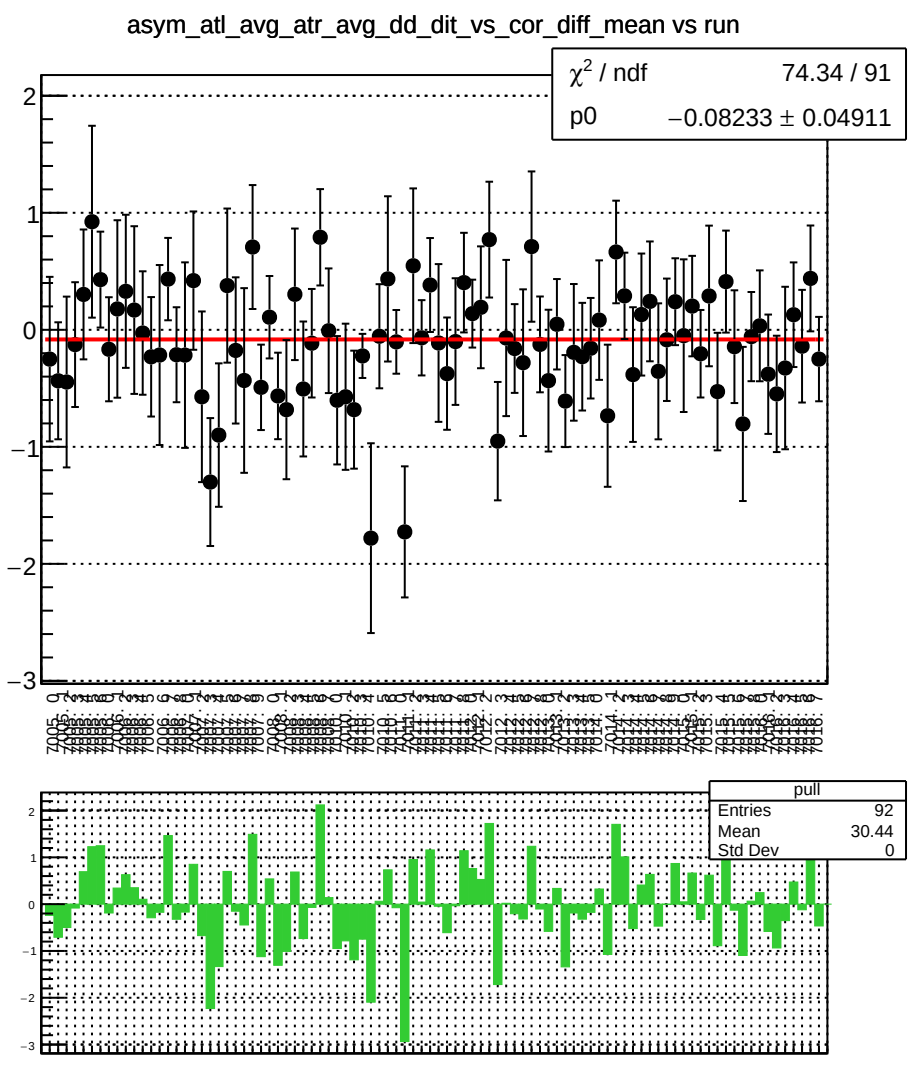

pull1D
Entries 92
Mean 0.008992
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

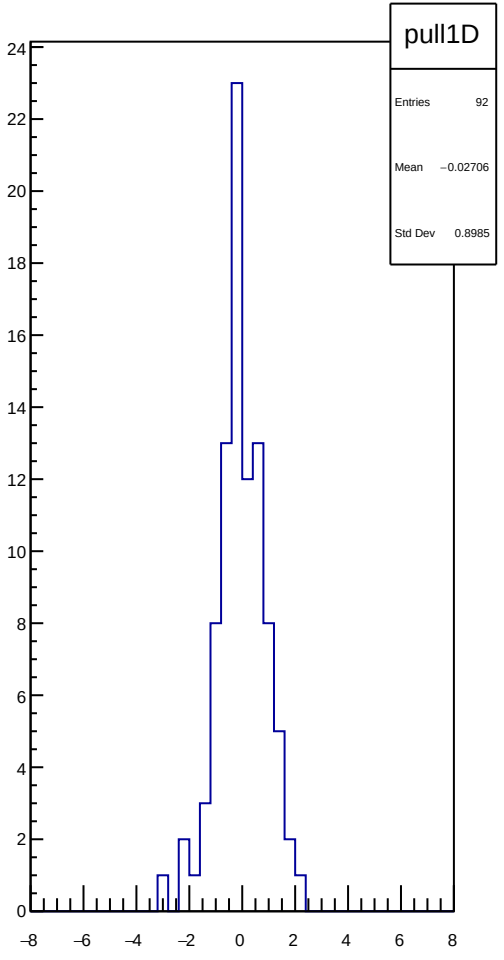

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 240.2 / 91
p0 1319 ± 1.007
1360
1340
1320
1300
1280
1260

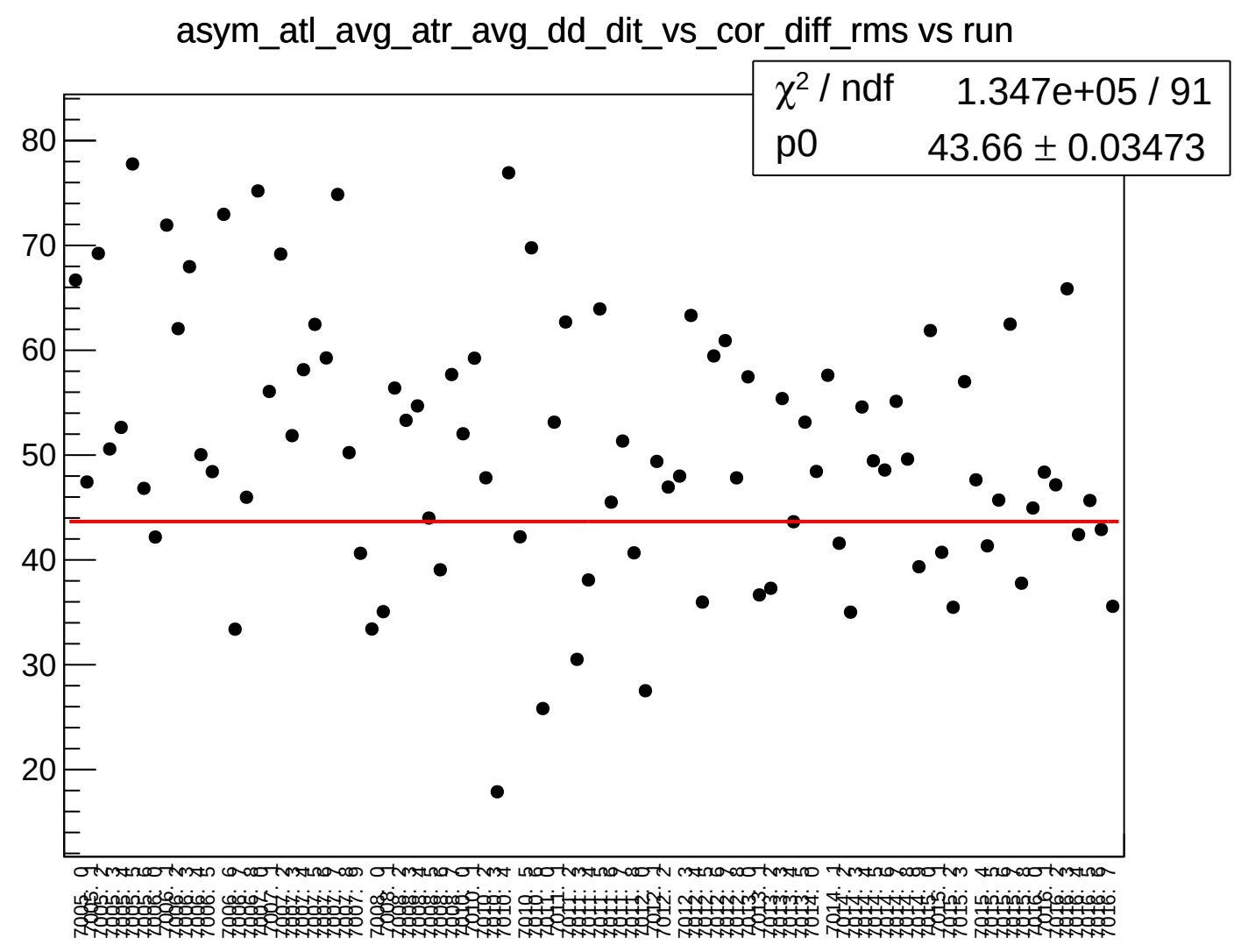

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 91
p0 5.388e−15 ± 9.96e−15
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 5.647
Std Dev 0
2
1
0
−1
−2
−3

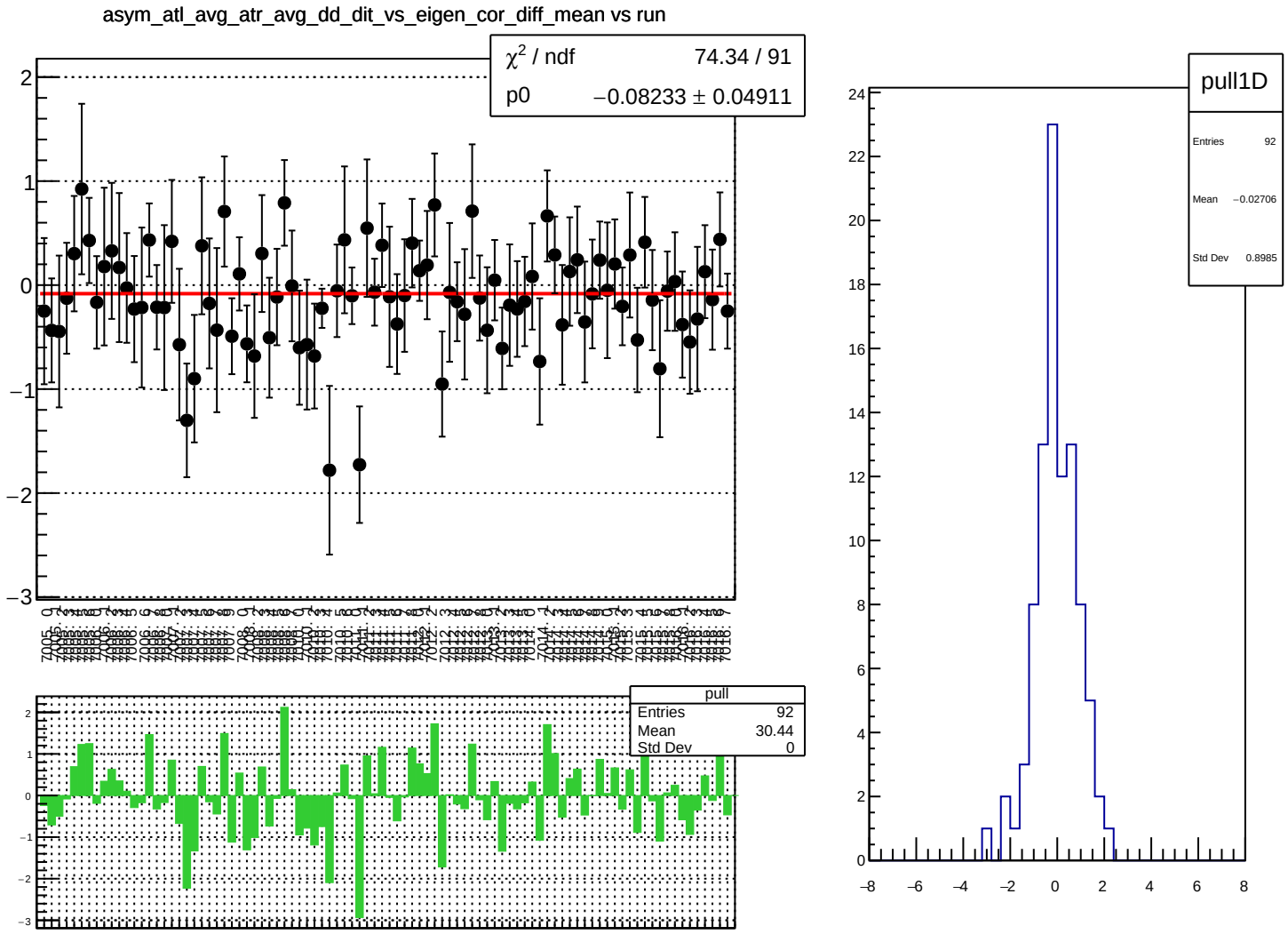

pull1D
Entries 92
Mean 0.01972
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

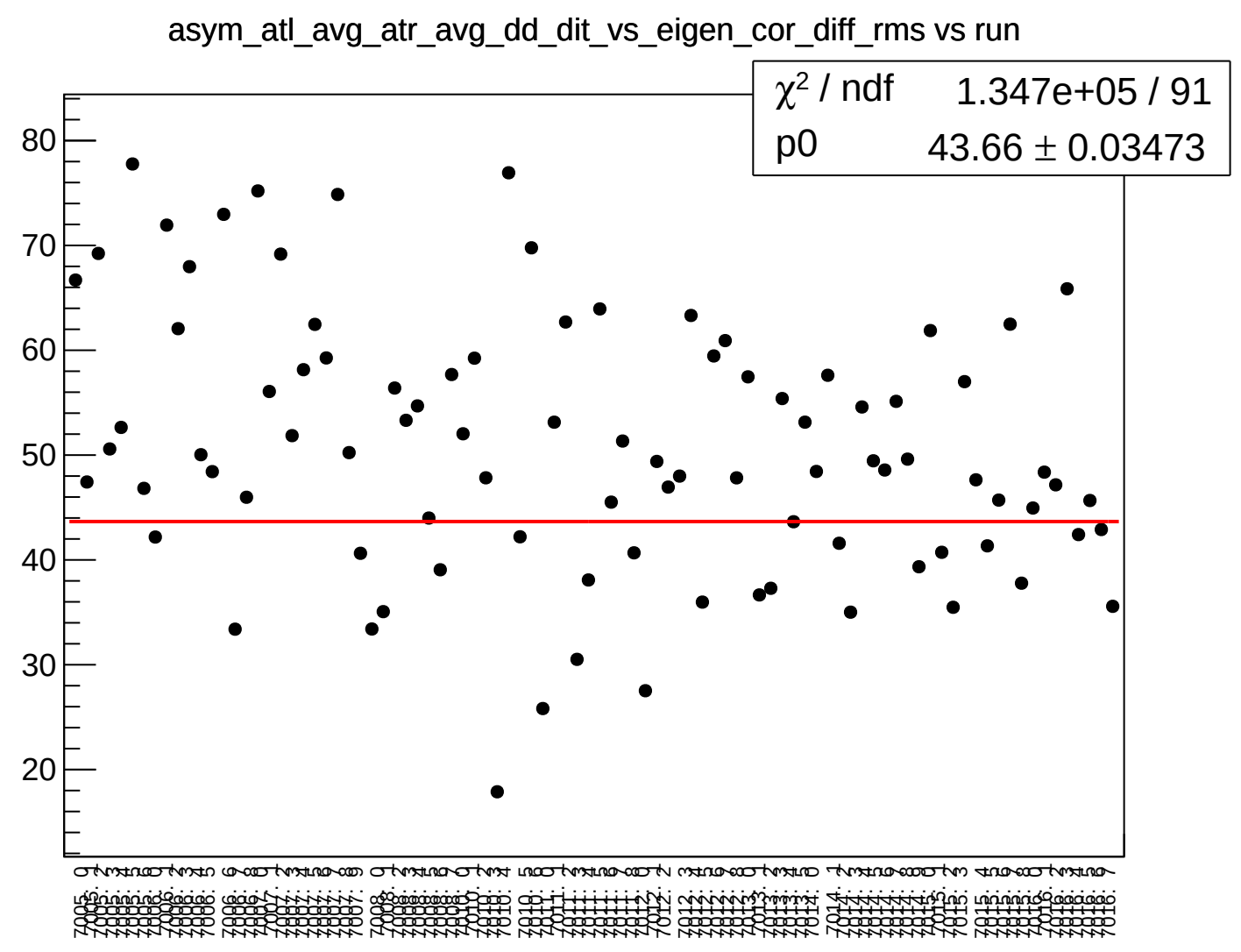

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 91
p0 5.866e−12 ± 7.043e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

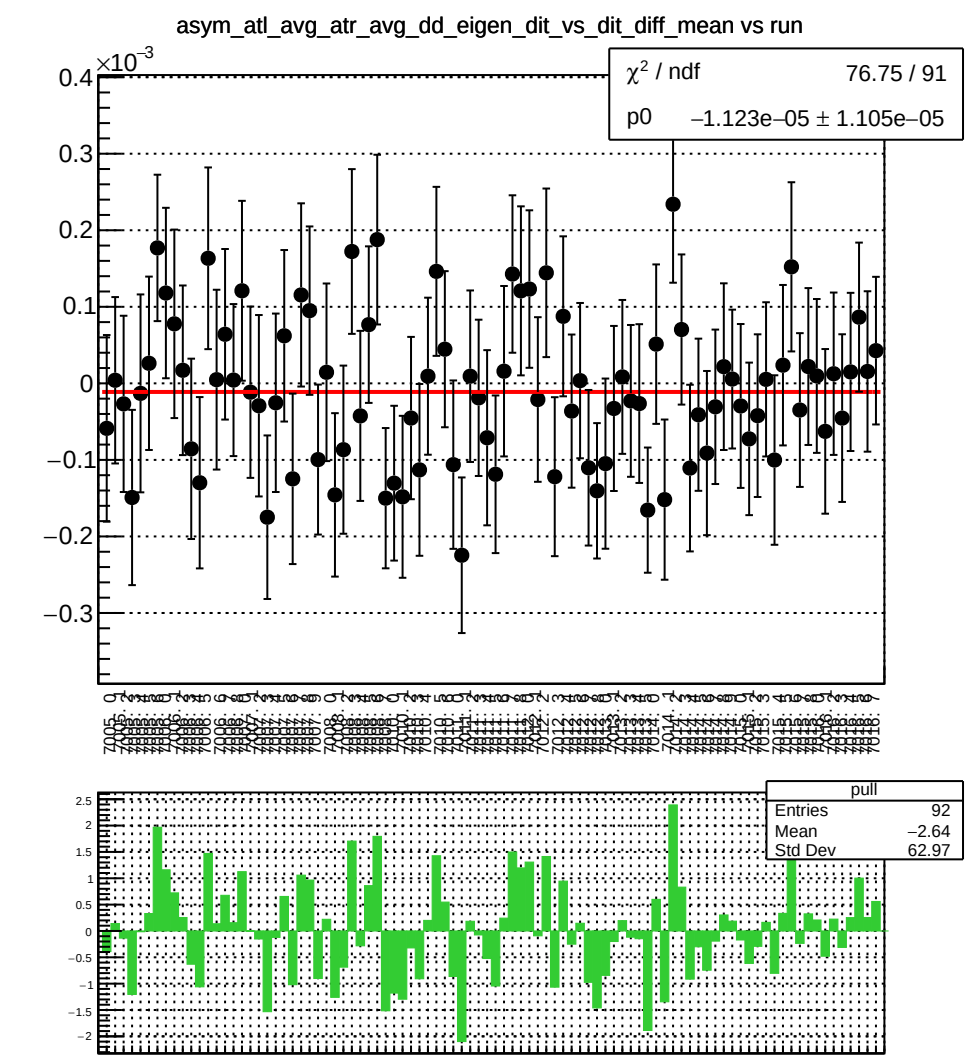

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.34 / 91
p0 −0.08233 ± 0.04911
pull
Entries 92
Mean 30.44
Std Dev 0

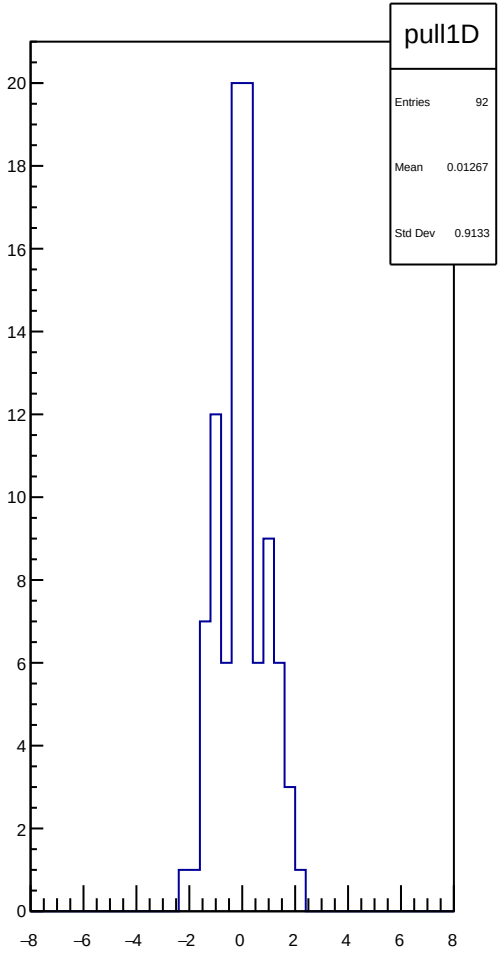

pull1D
Entries 92
Mean −0.02706
Std Dev 0.8985

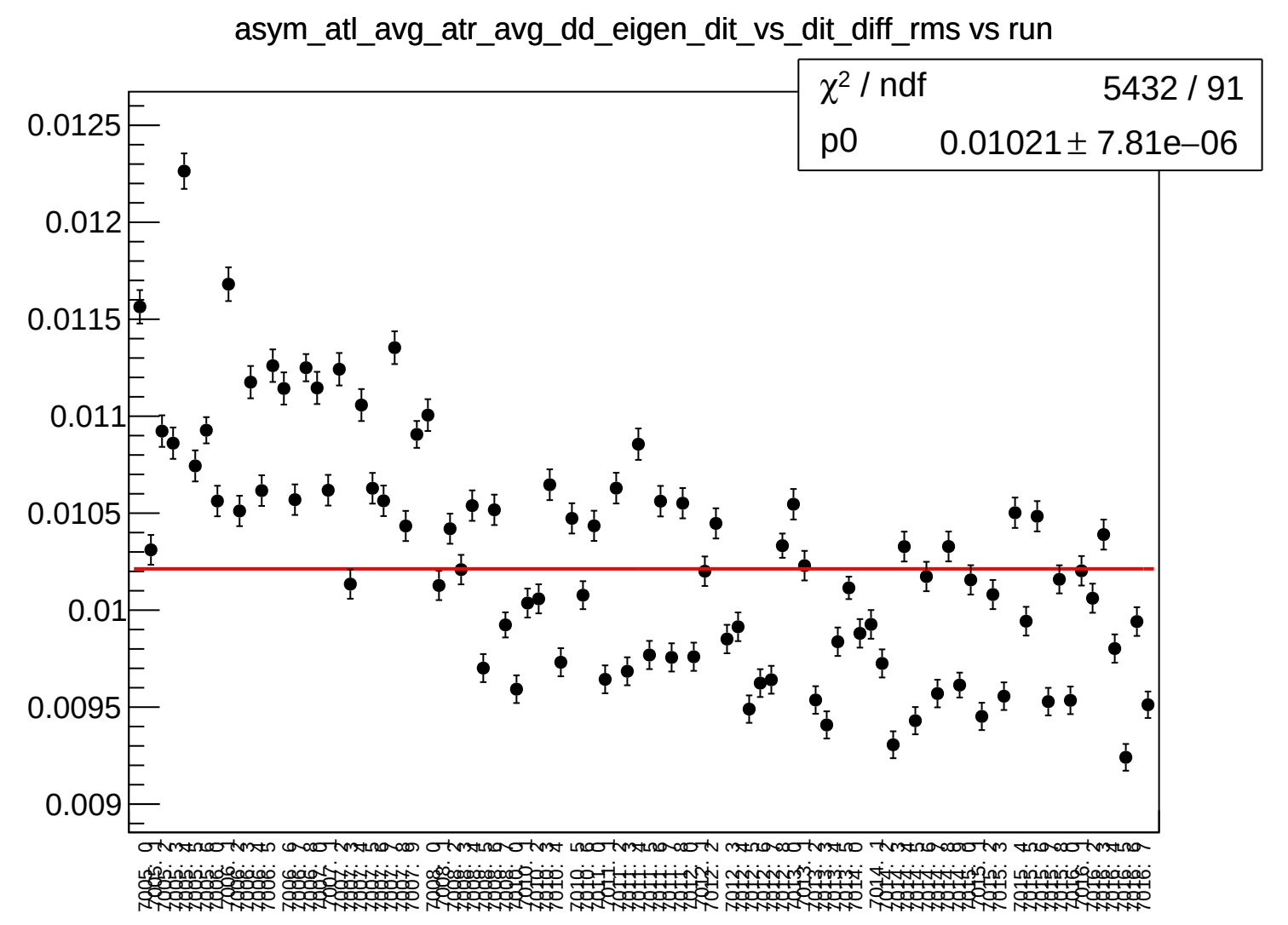

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.347e+05 / 91
p0 43.66 ± 0.03473
80
70
60
50
40
30
20

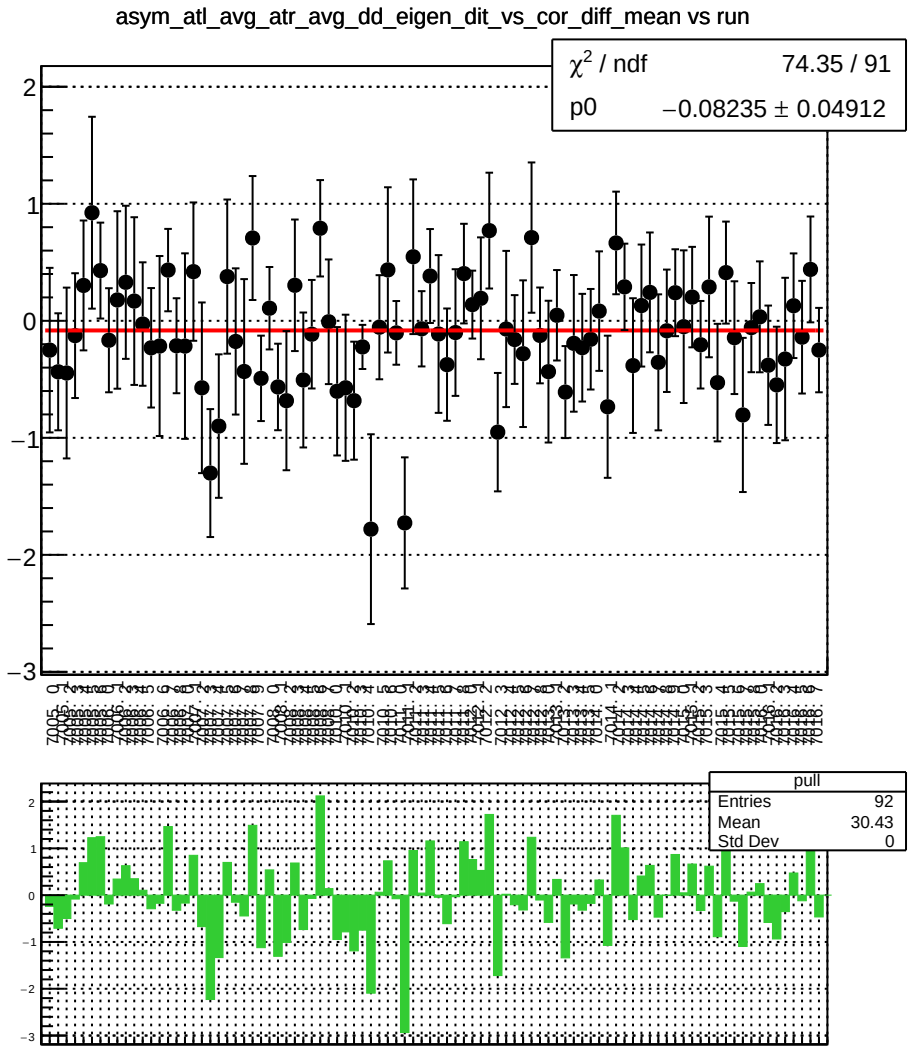

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.34 / 91
p0 −0.08233 ± 0.04911
pull
Entries 92
Mean 30.44
Std Dev 0
pull1D
Entries 92
Mean −0.02706
Std Dev 0.8985

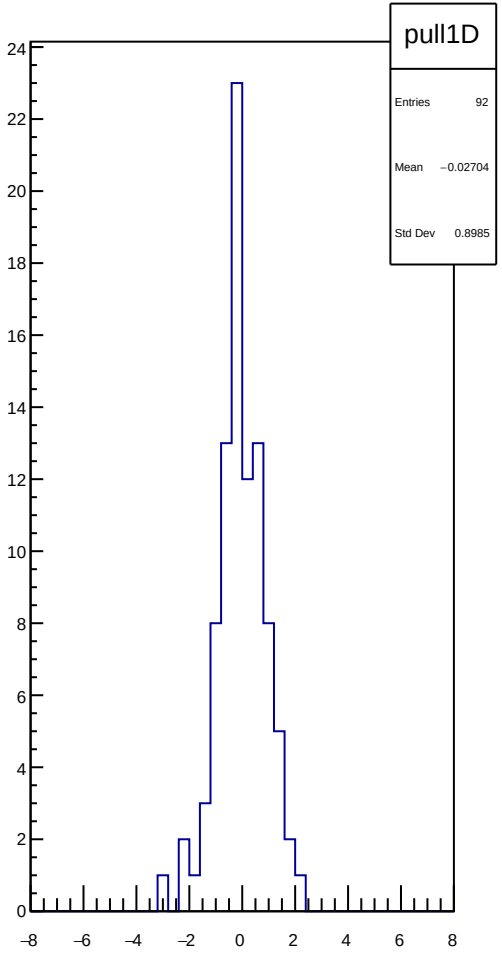

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.347e+05 / 91
p0 43.66 ± 0.03473
80
70
60
50
40
30
20

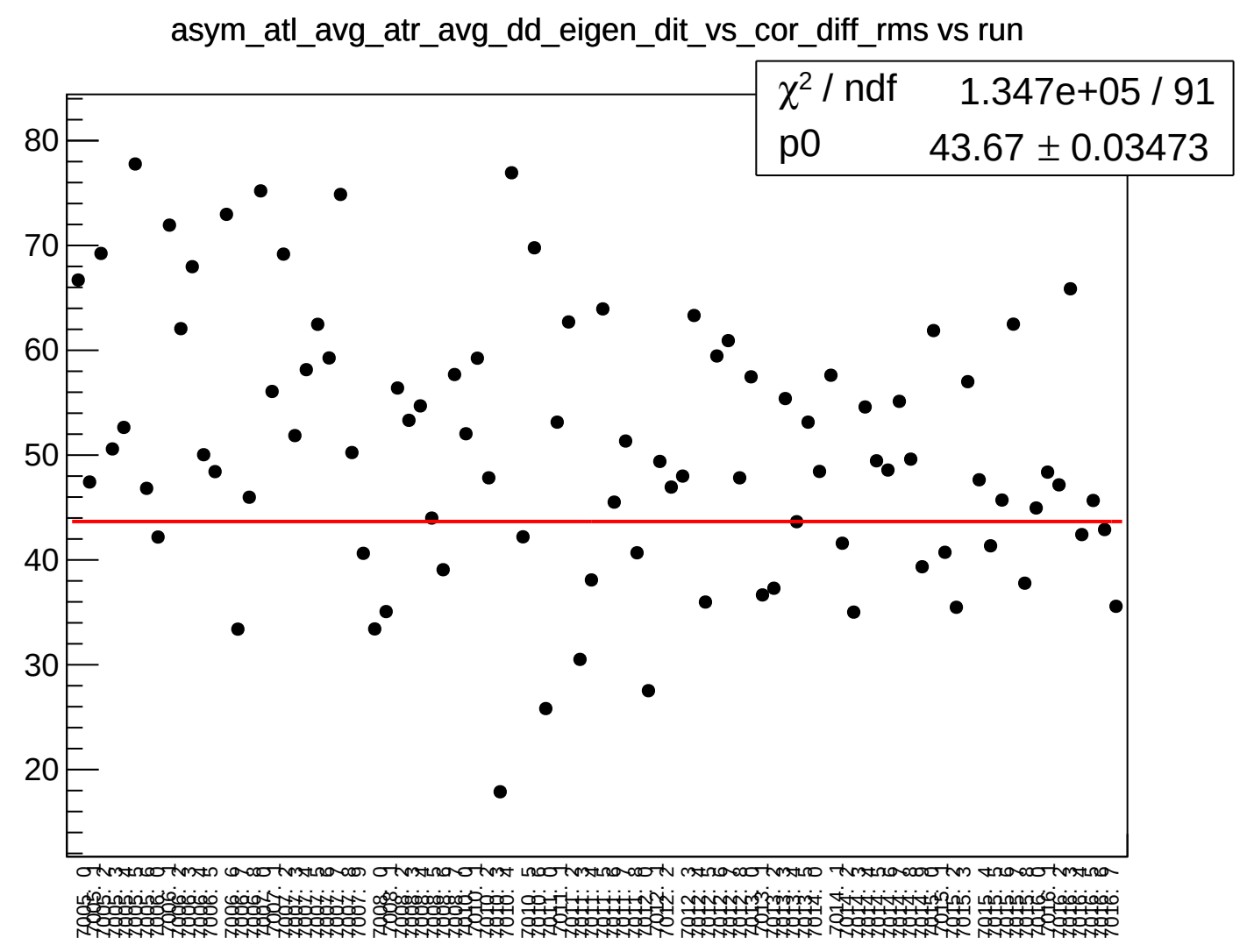

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.75 / 91
p0 −1.123e−05 ± 1.105e−05
pull
Entries 92
Mean −2.64
Std Dev 62.97

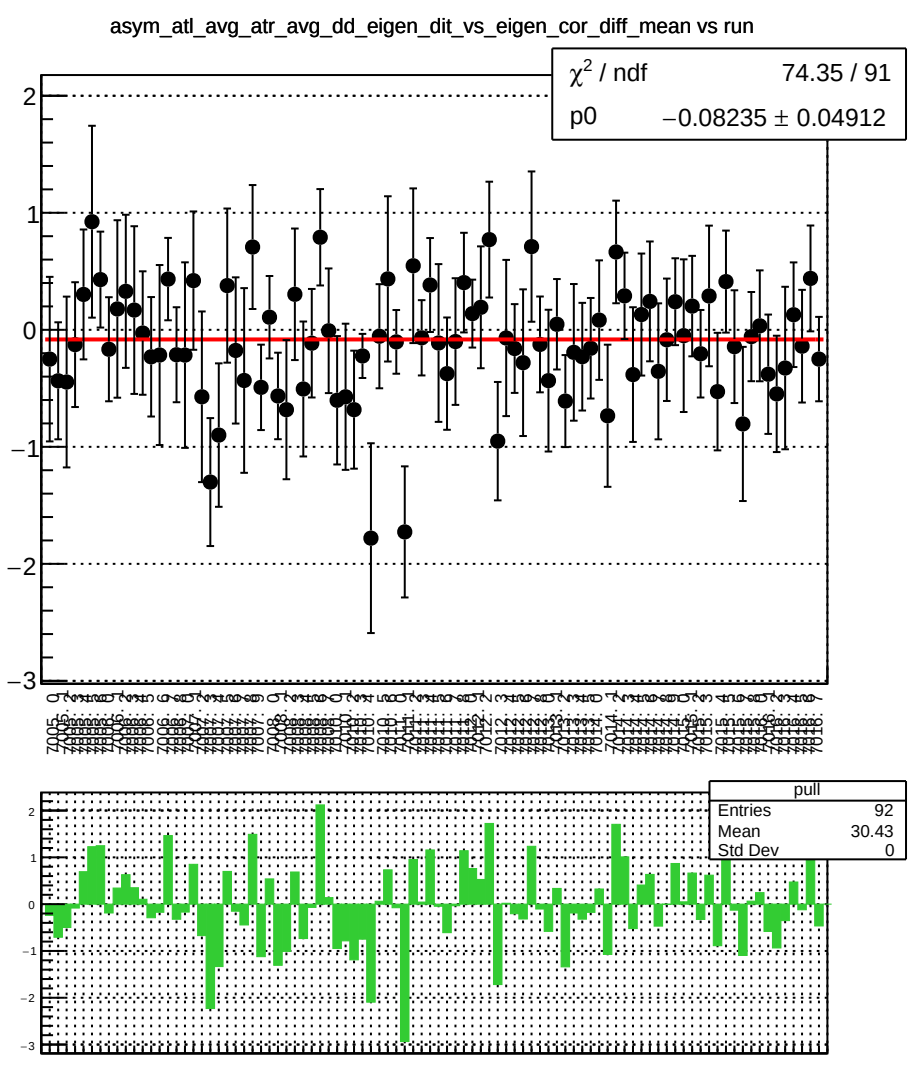

pull1D
Entries 92
Mean 0.01267
Std Dev 0.9133

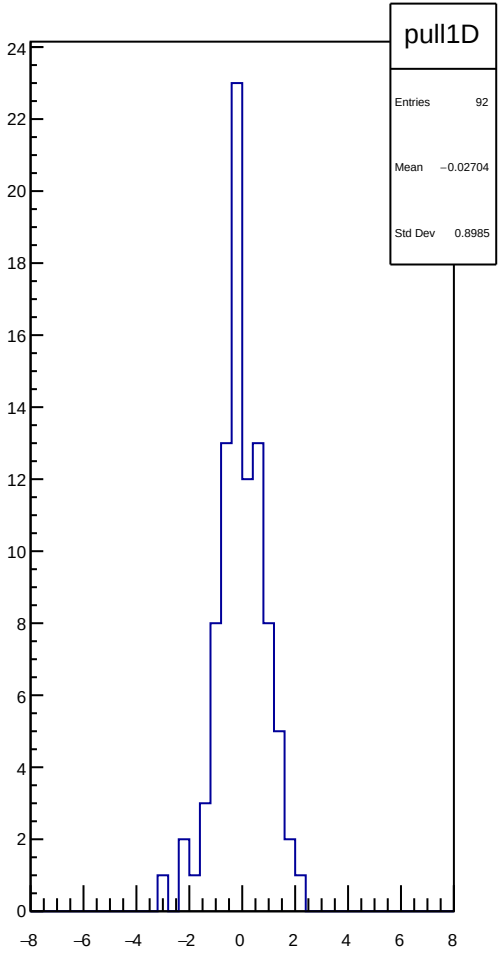

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5432 / 91
p0 0.01021 ± 7.81e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

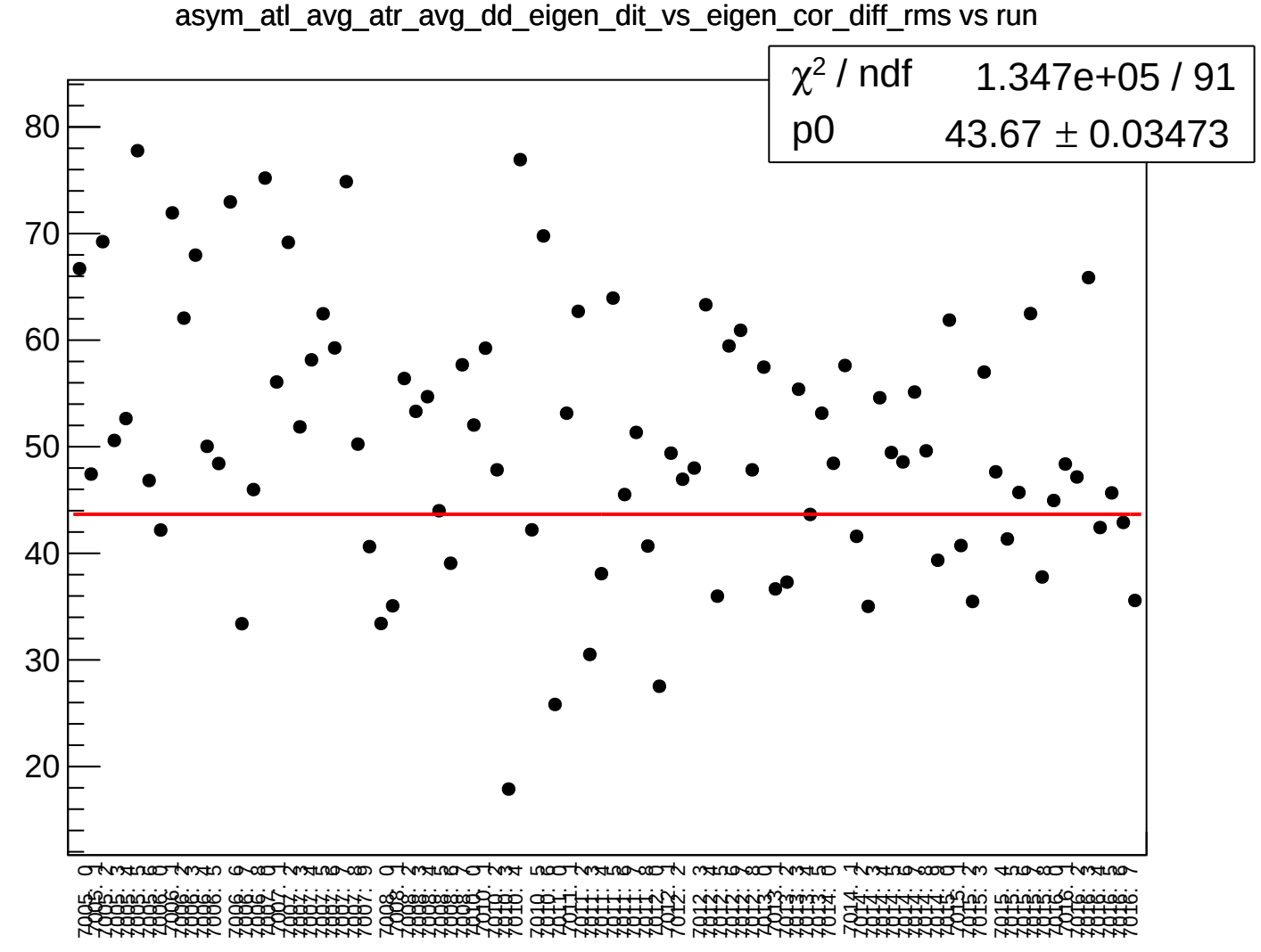

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.35 / 91
p0 −0.08235 ± 0.04912
pull
Entries 92
Mean 30.43
Std Dev 0

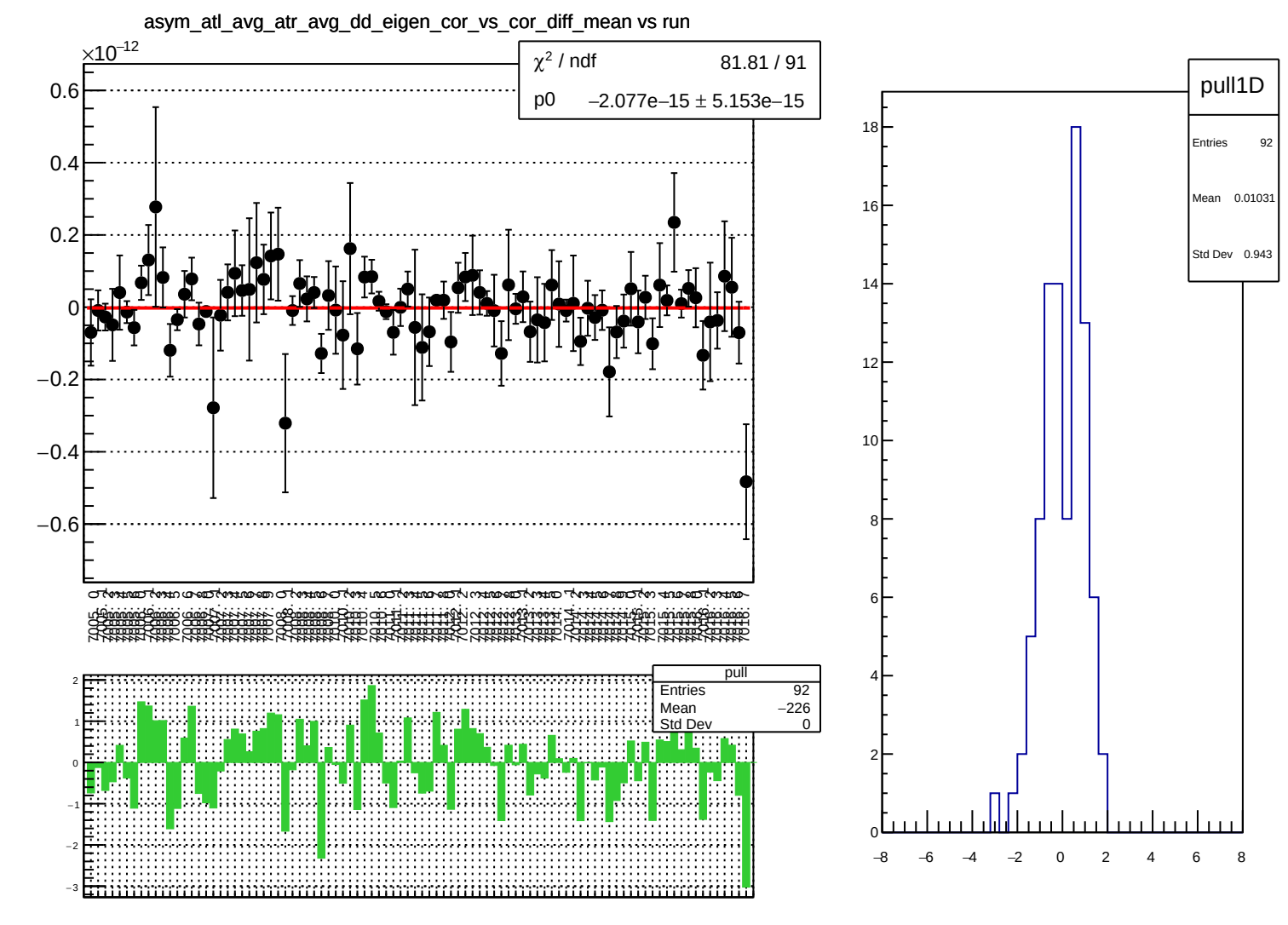

pull1D
Entries 92
Mean −0.02704
Std Dev 0.8985

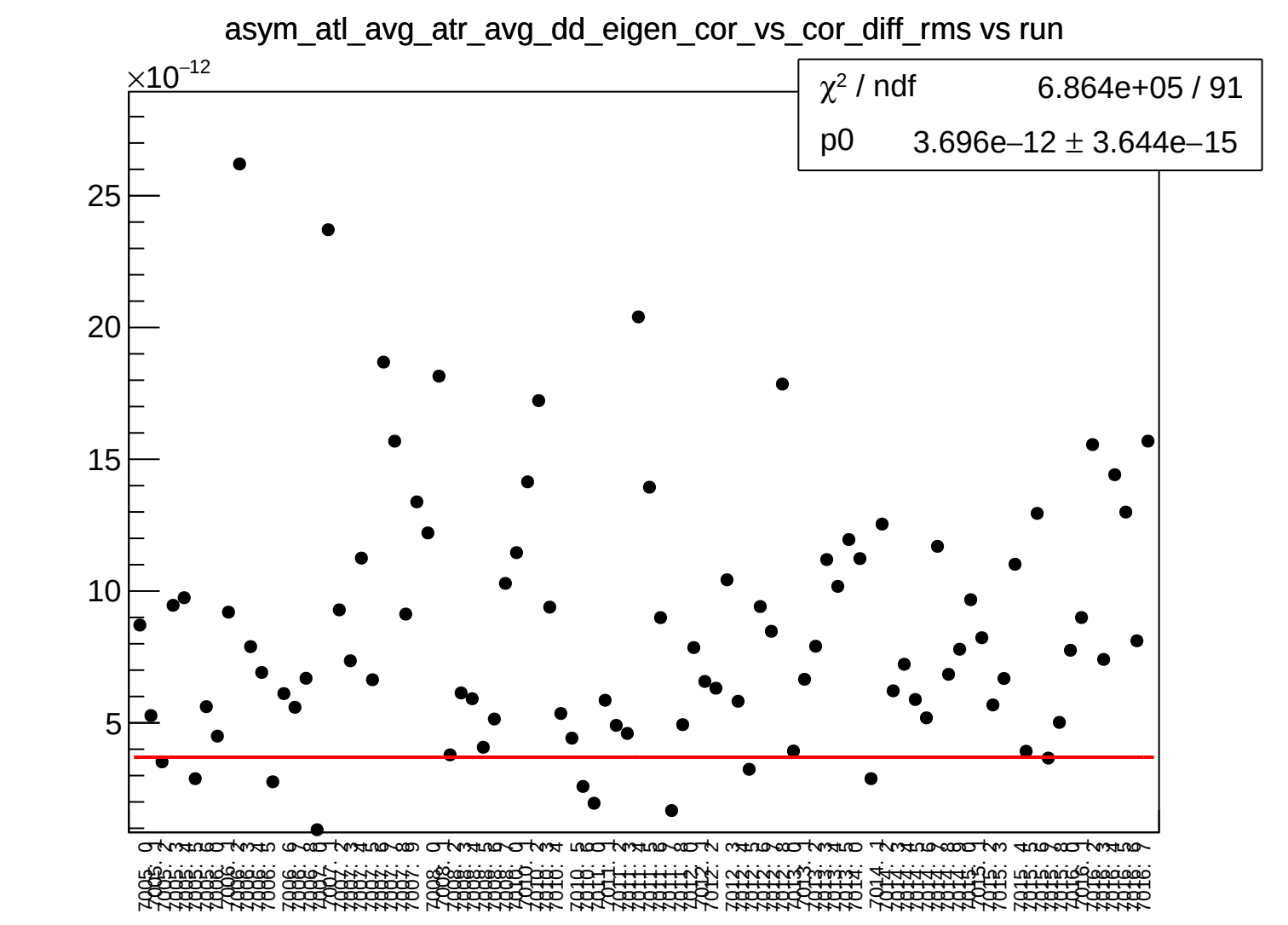

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.347e+05 / 91
p0 43.67 ± 0.03473
80
70
60
50
40
30
20

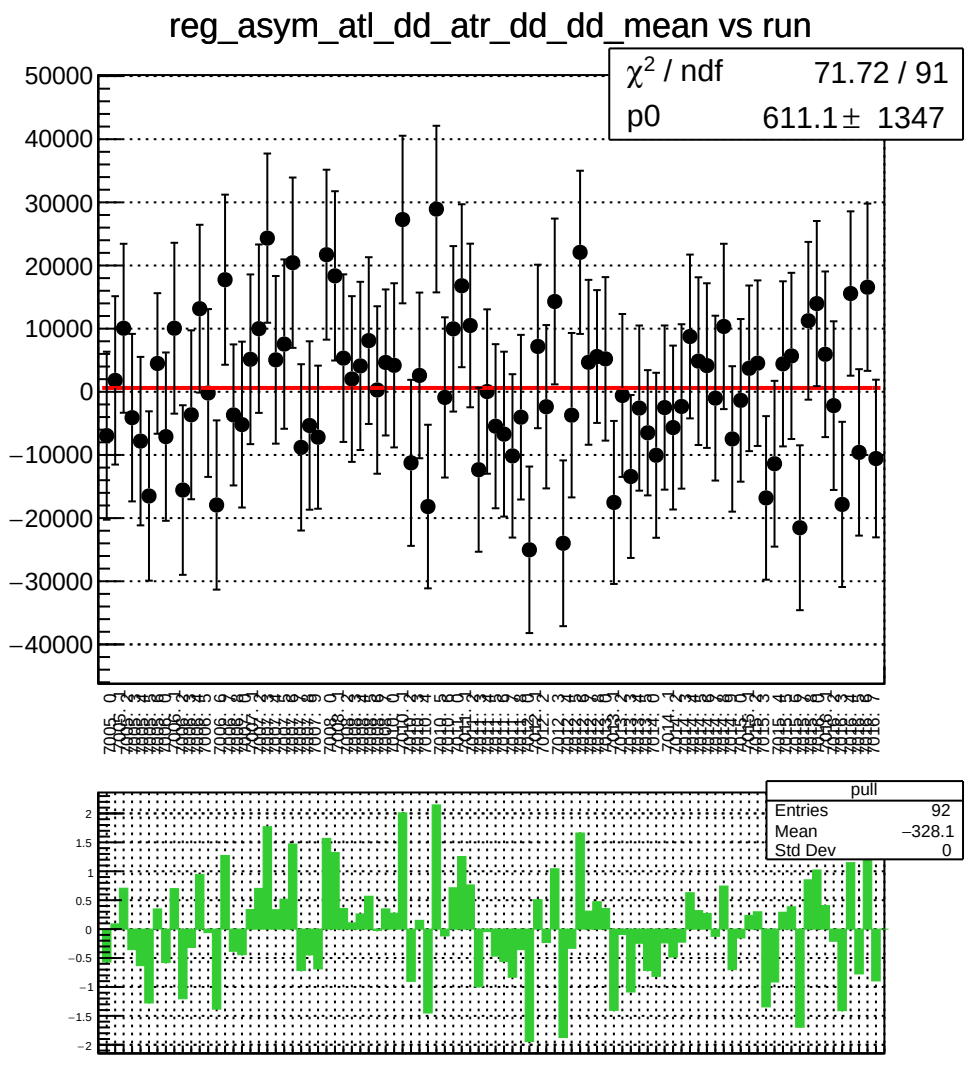

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.35 / 91
p0 −0.08235 ± 0.04912
pull
Entries 92
Mean 30.43
Std Dev 0

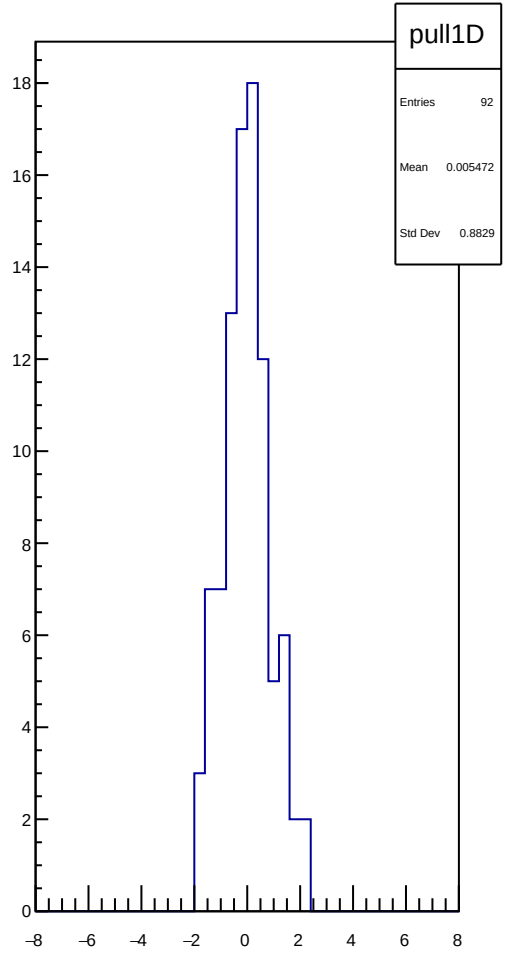

pull1D
Entries 92
Mean −0.02704
Std Dev 0.8985

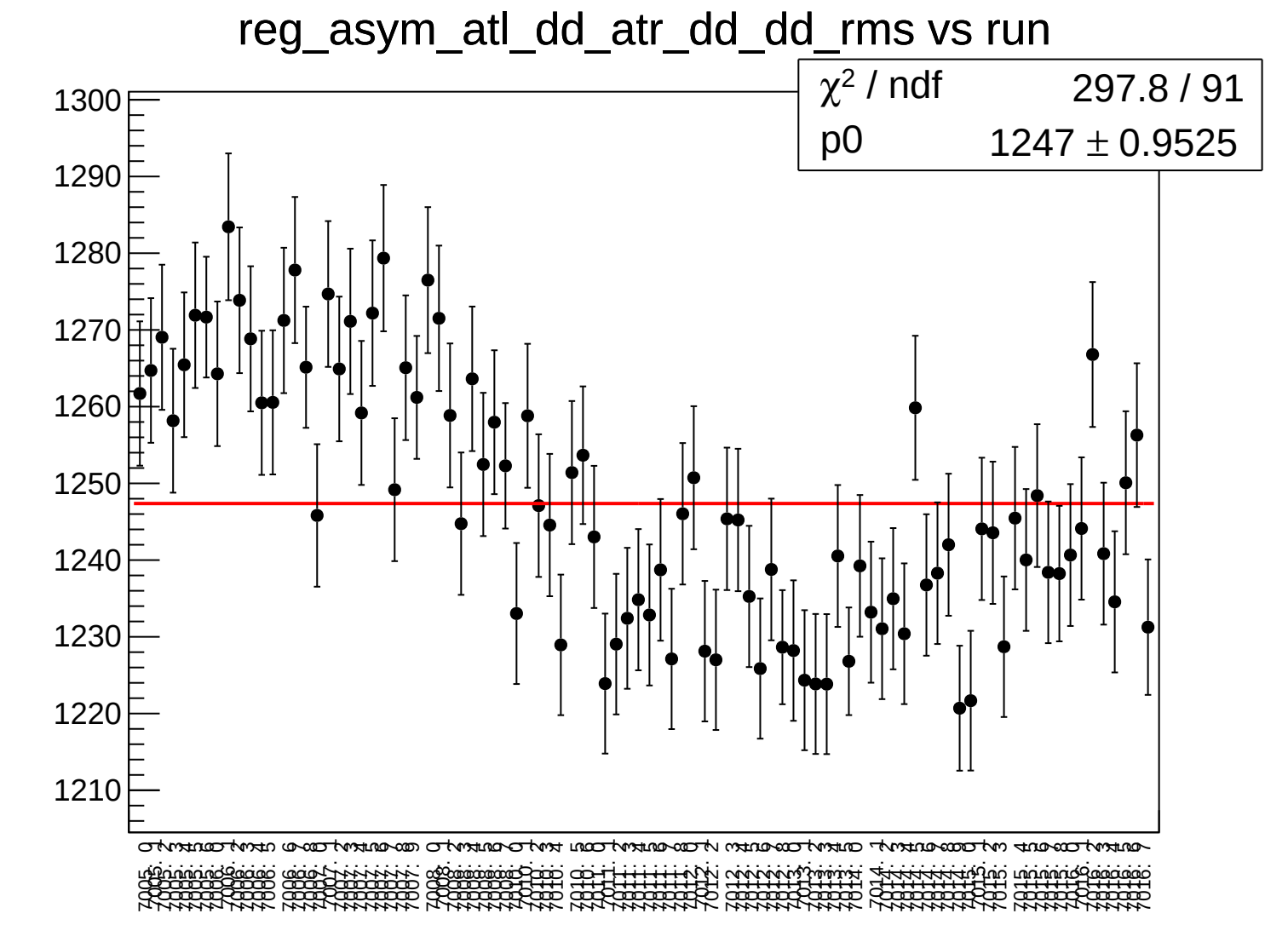

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.347e+05 / 91
p0 43.67 ± 0.03473
80
70
60
50
40
30
20

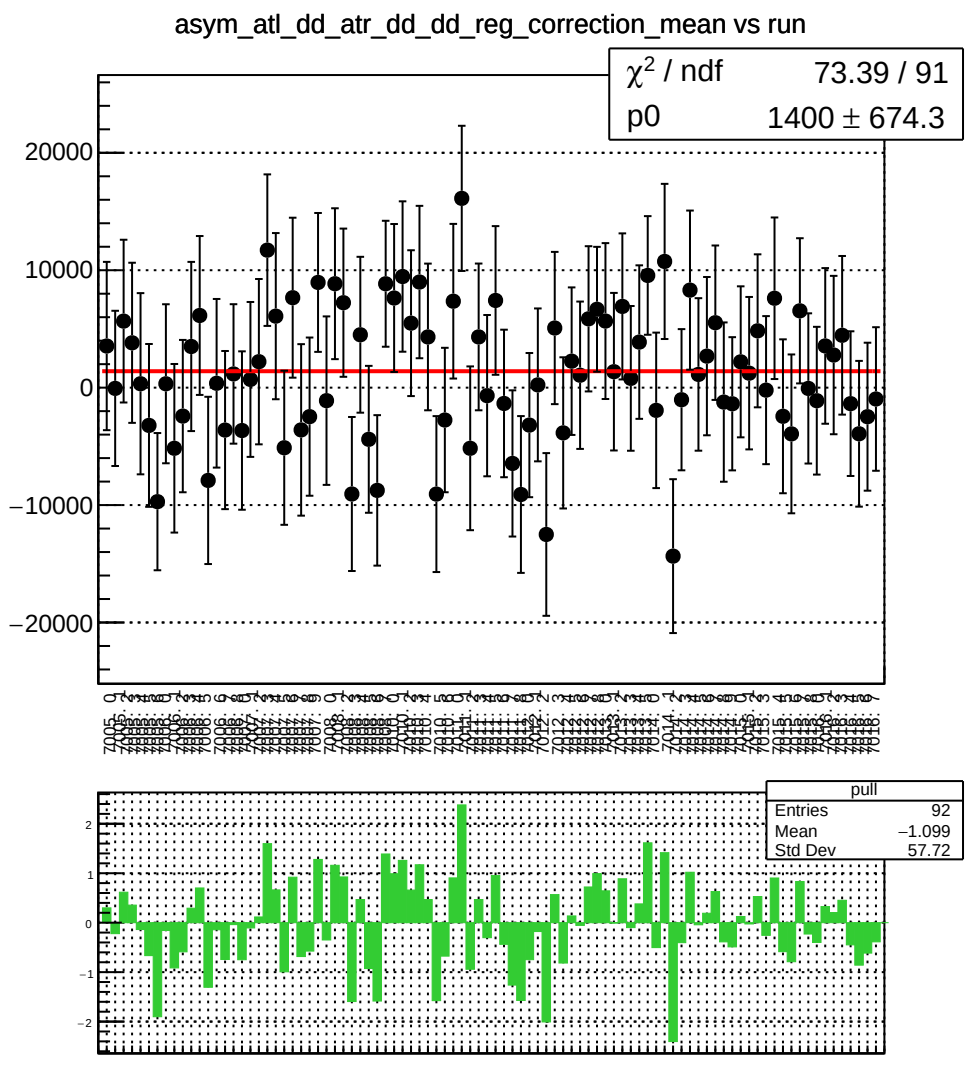

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.81 / 91
p0 −2.077e−15 ± 5.153e−15
pull
Entries 92
Mean −226
Std Dev 0
pull1D
Entries 92
Mean 0.01031
Std Dev 0.943

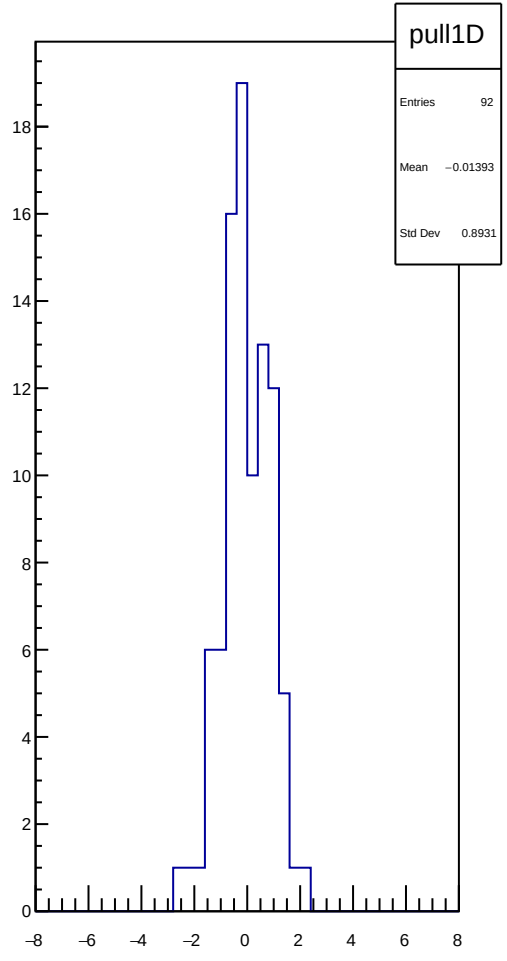

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.864e+05 / 91
p0 3.696e−12 ± 3.644e−15
25
20
15
10
5

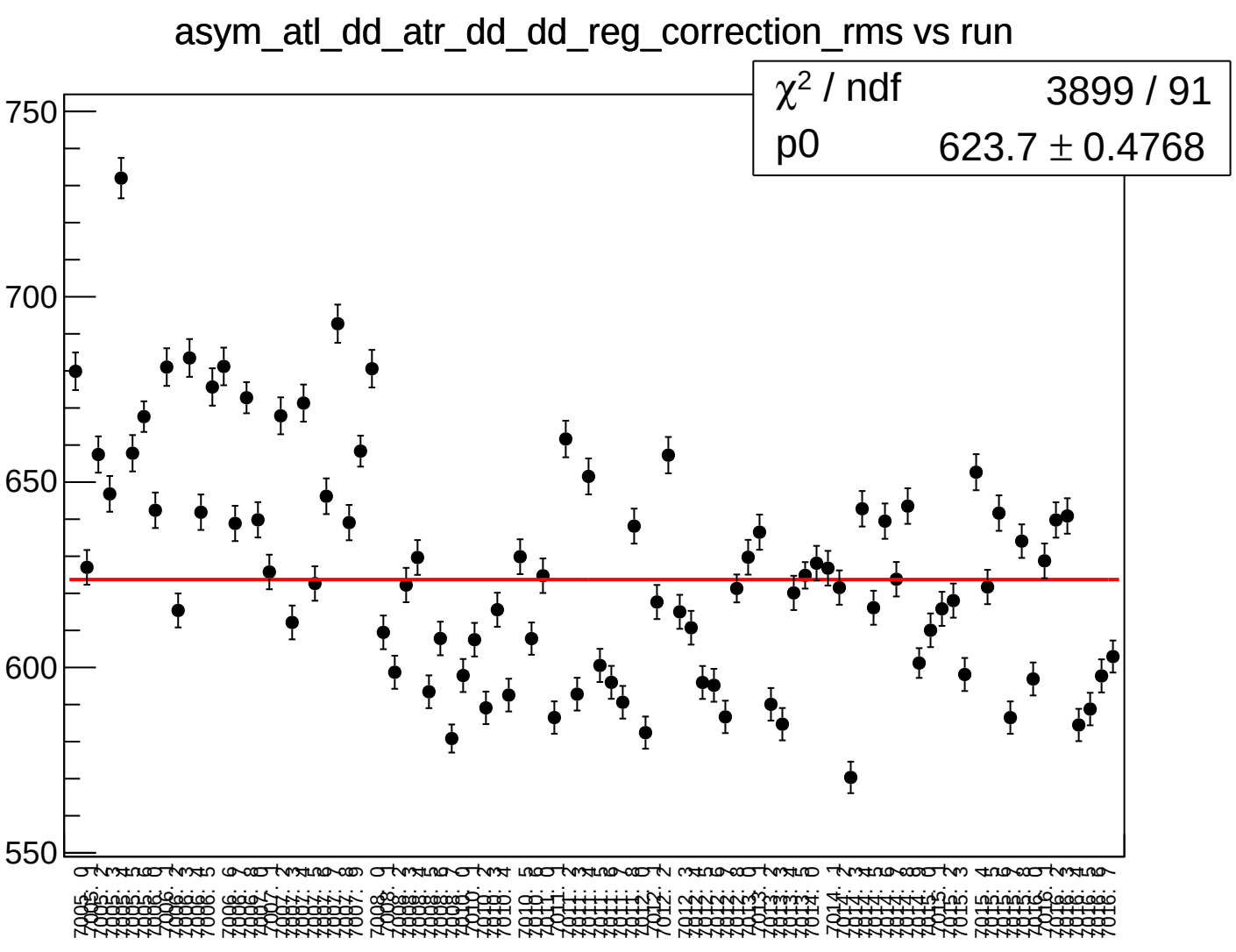

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 71.72 / 91
p0 611.1 ± 1347
pull
Entries 92
Mean −328.1
Std Dev 0

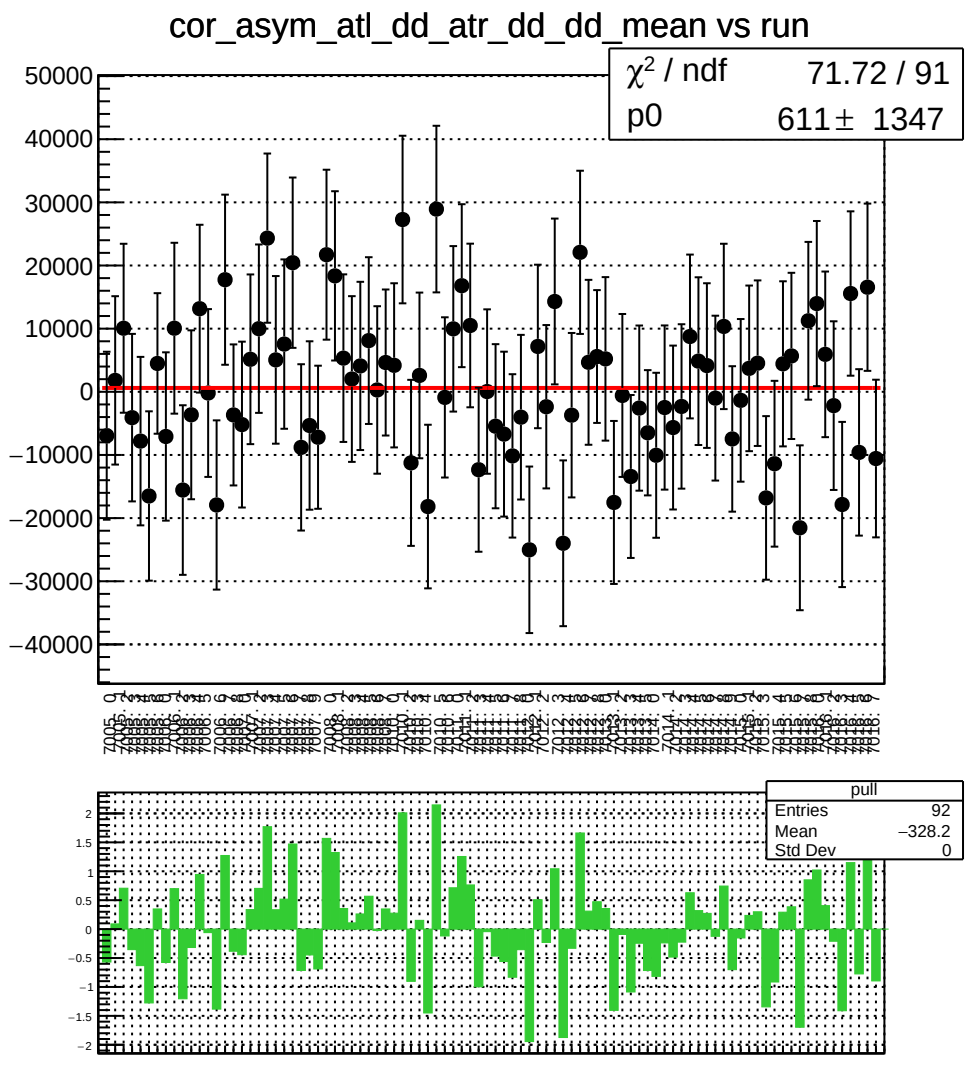

pull1D
Entries 92
Mean 0.005472
Std Dev 0.8829

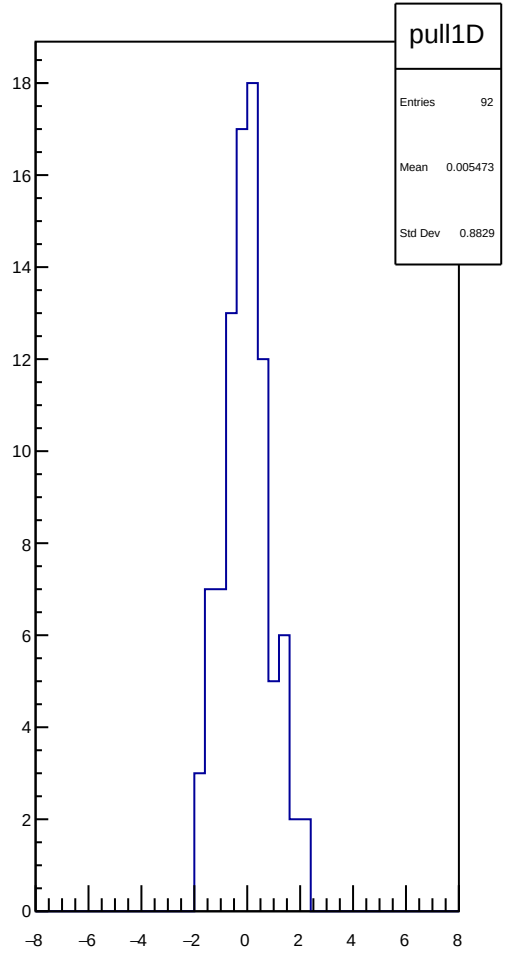

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 297.8 / 91
p0 1247 ± 0.9525
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

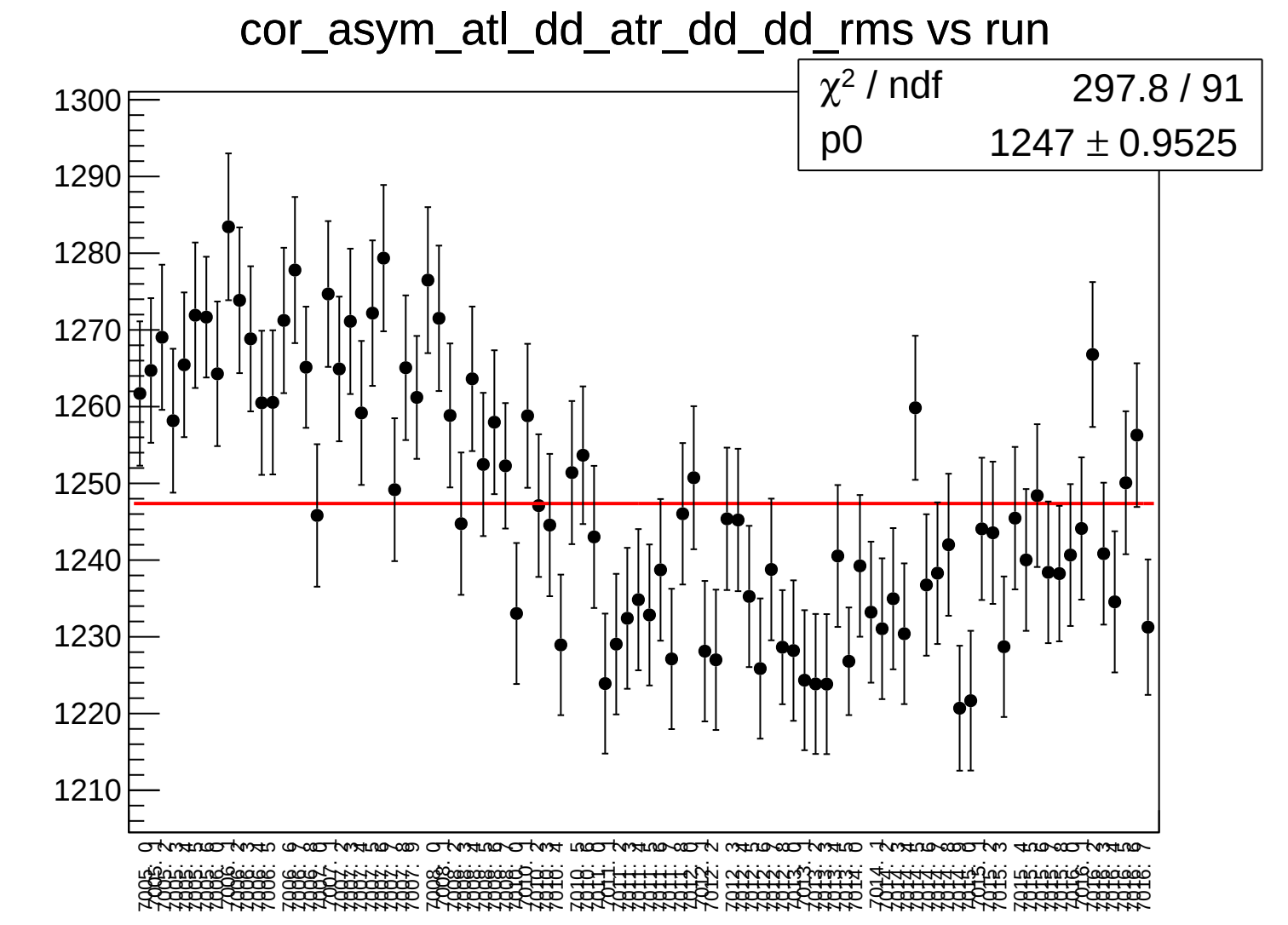

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 73.39 / 91
p0 1400 ± 674.3
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1.099
Std Dev 57.72
2
1
0
−1
−2

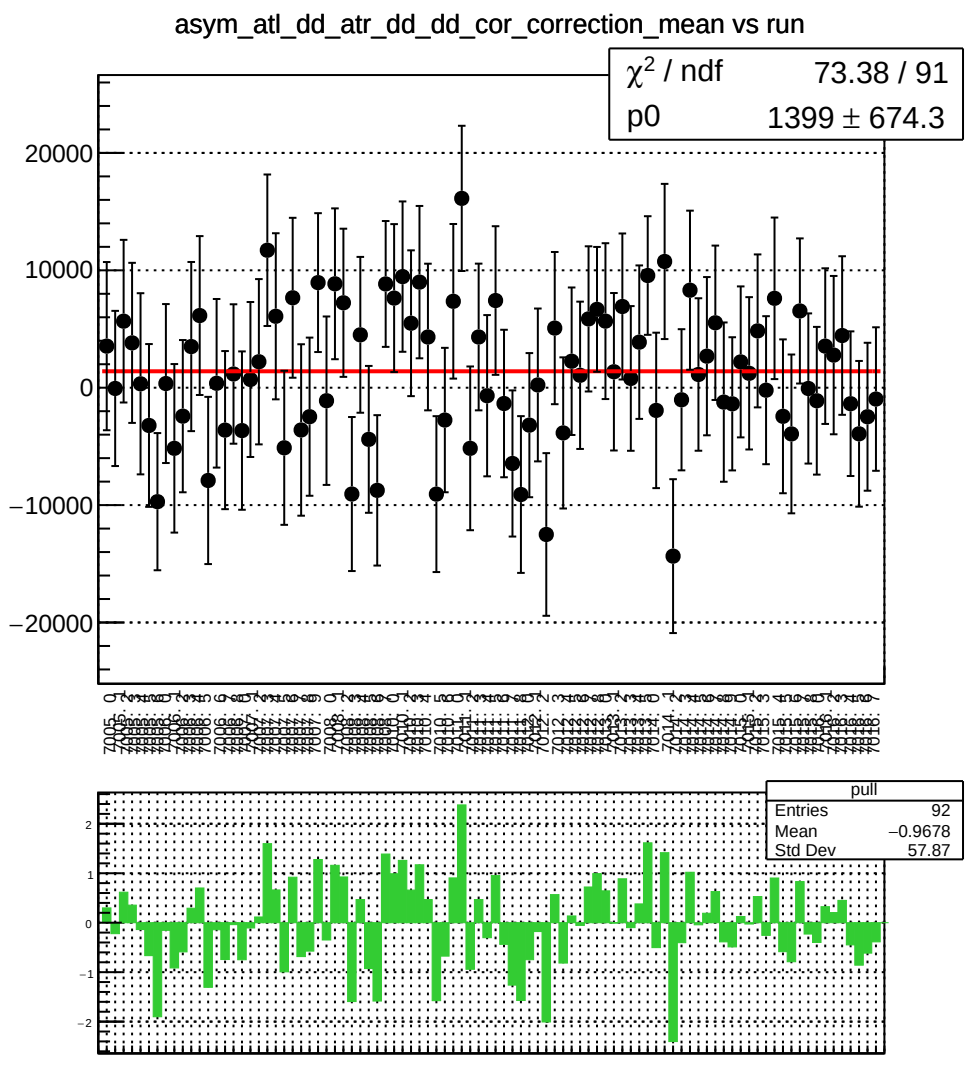

pull1D
Entries 92
Mean −0.01393
Std Dev 0.8931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

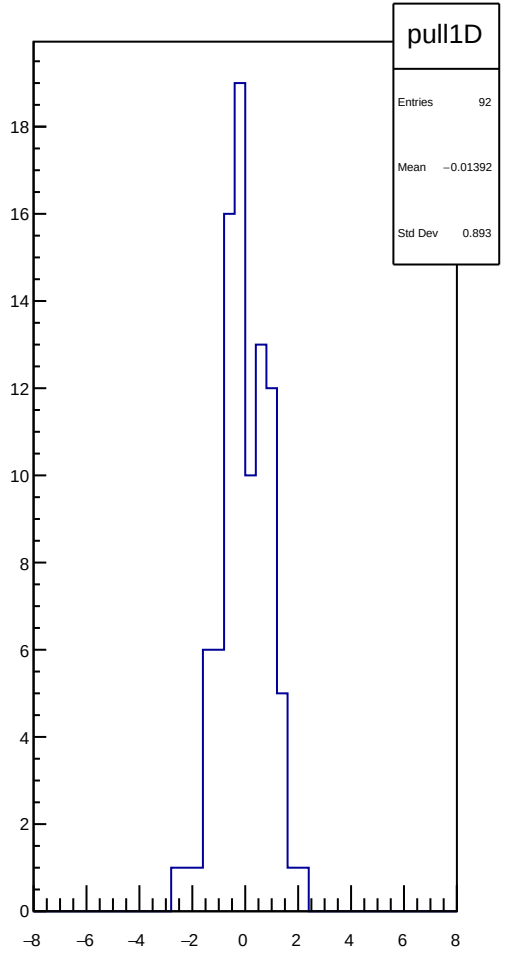

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 3899 / 91
p0 623.7 ± 0.4768
750
700
650
600
550

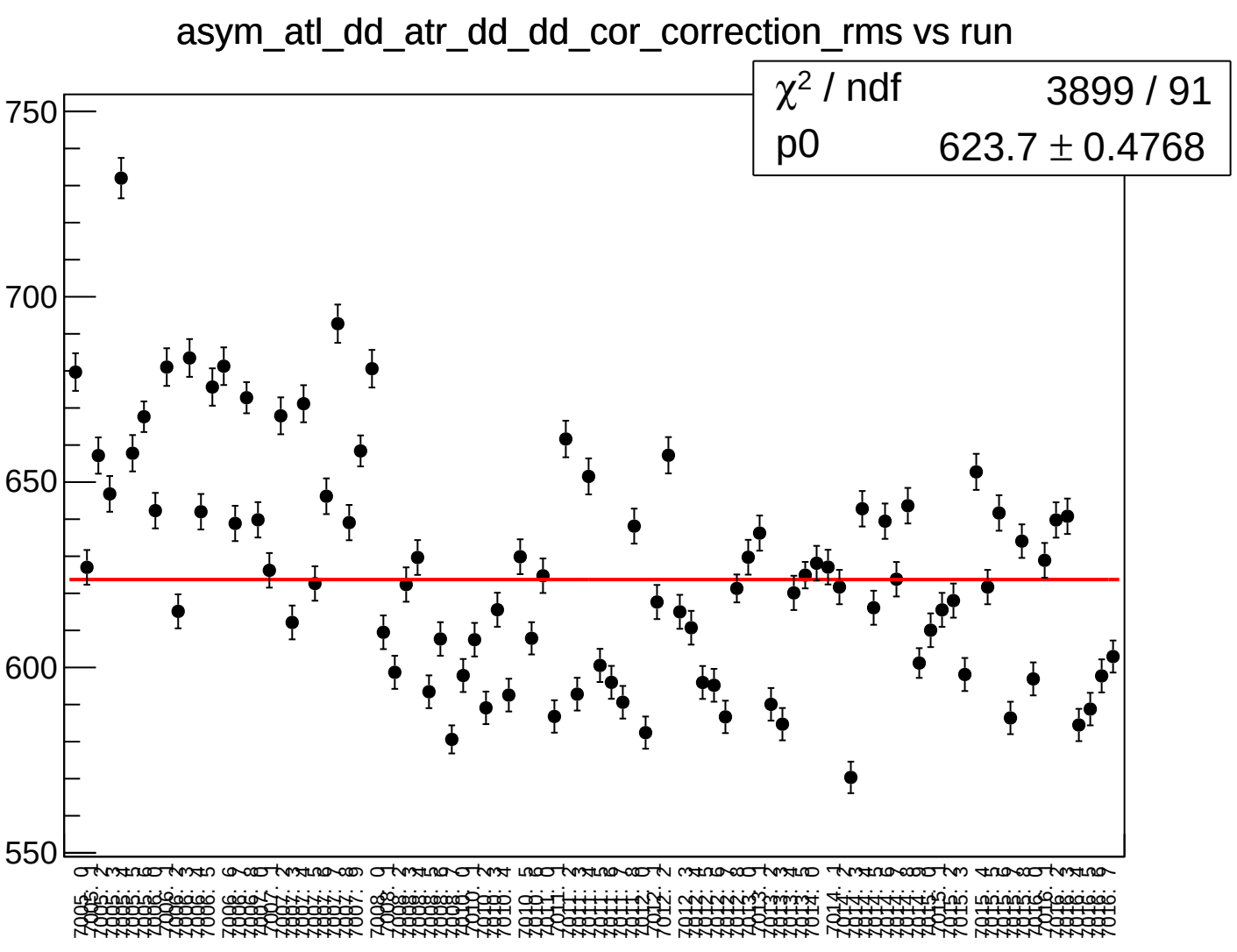

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 71.72 / 91
p0 611 ± 1347
pull
Entries 92
Mean −328.2
Std Dev 0

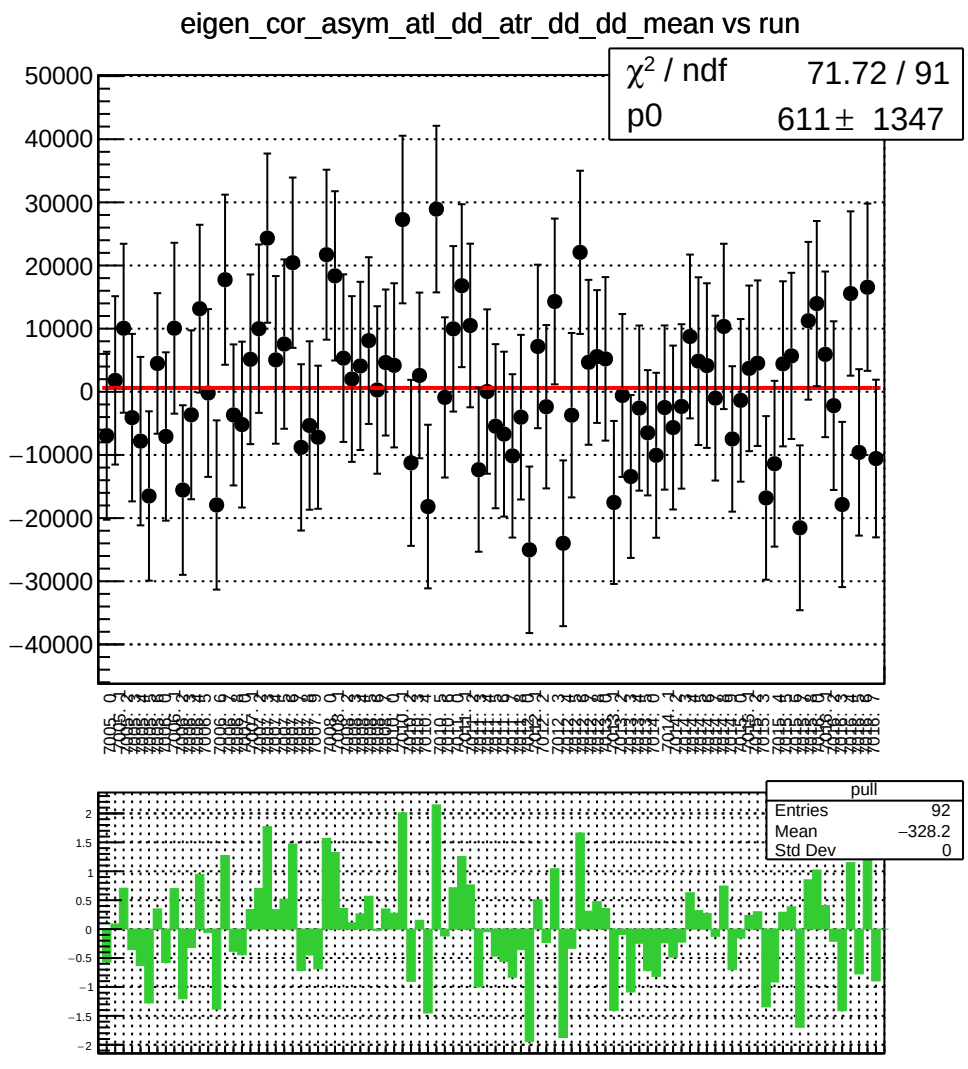

pull1D
Entries 92
Mean 0.005473
Std Dev 0.8829

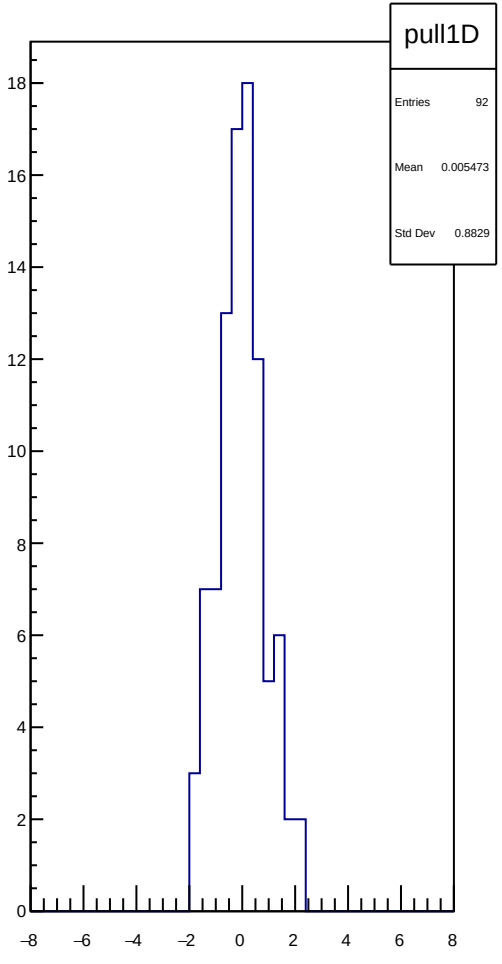

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 297.8 / 91
p0 1247 ± 0.9525
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

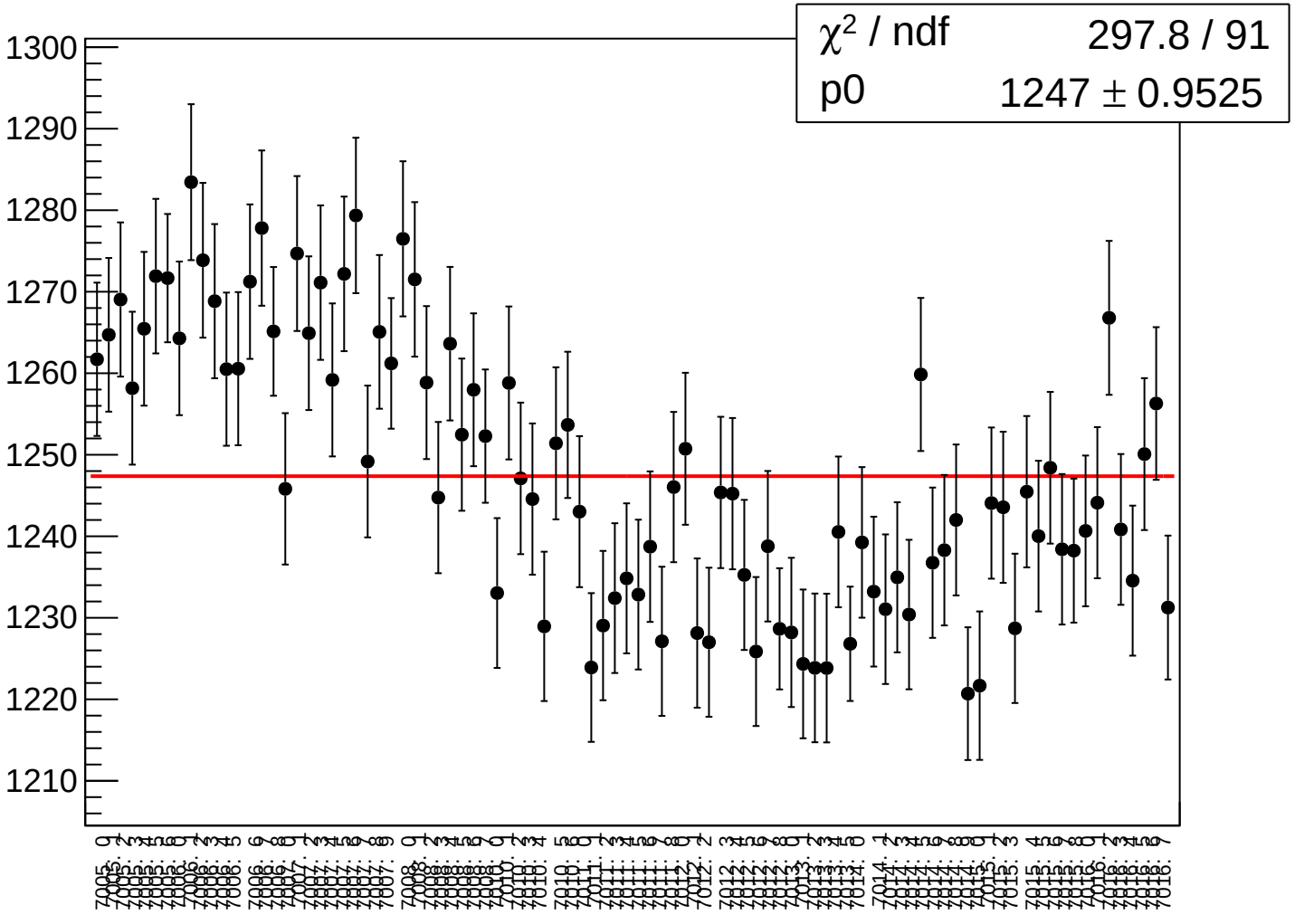

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 73.38 / 91
p0 1399 ± 674.3
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −0.9678
Std Dev 57.87
2
1
0
−1
−2

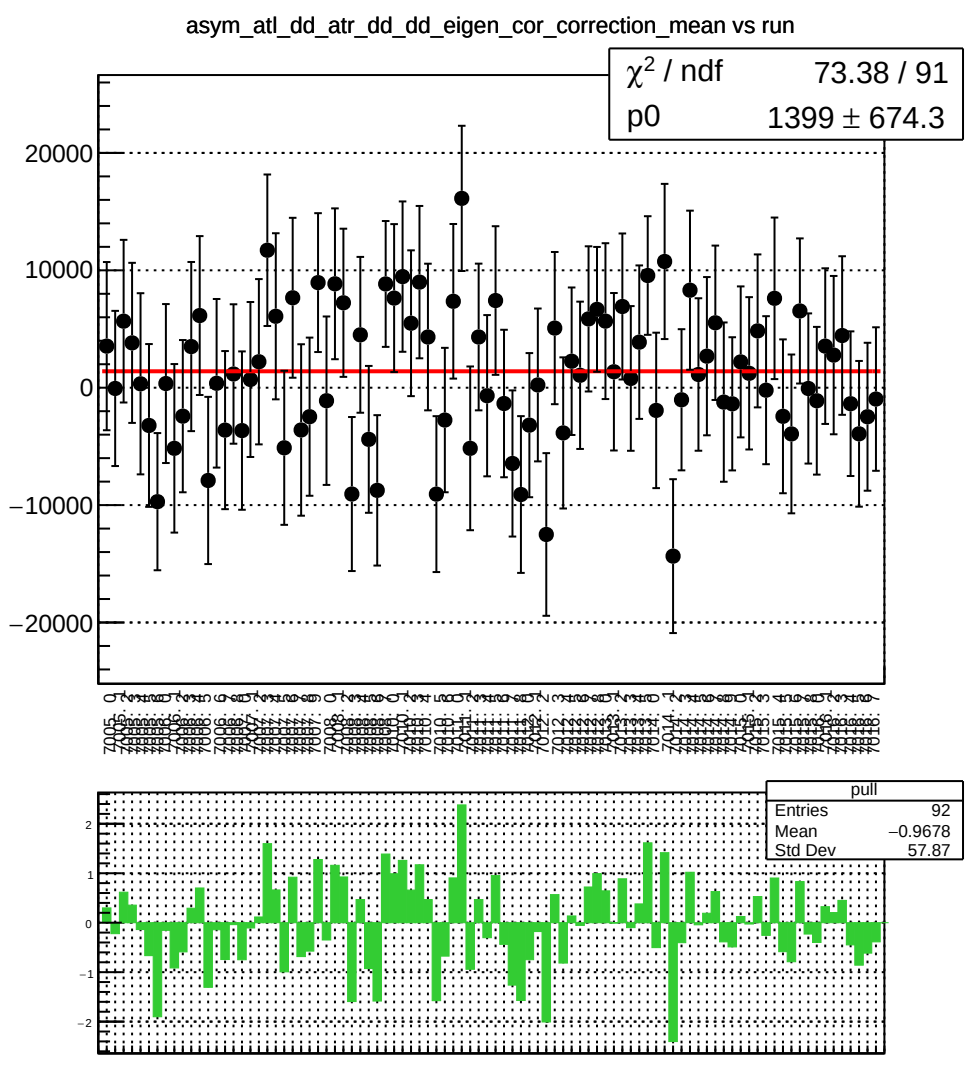

pull1D
Entries 92
Mean −0.01392
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

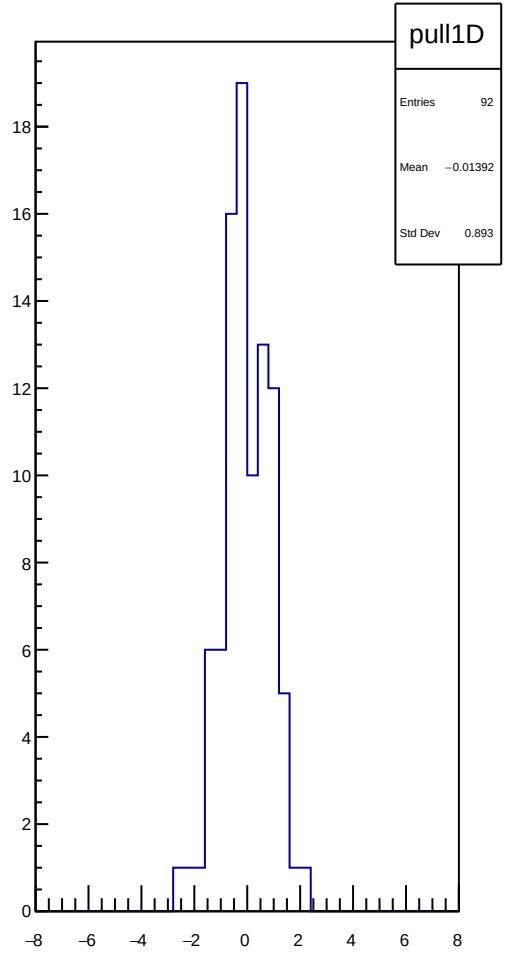

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 3899 / 91
p0 623.7 ± 0.4768
750
700
650
600
550

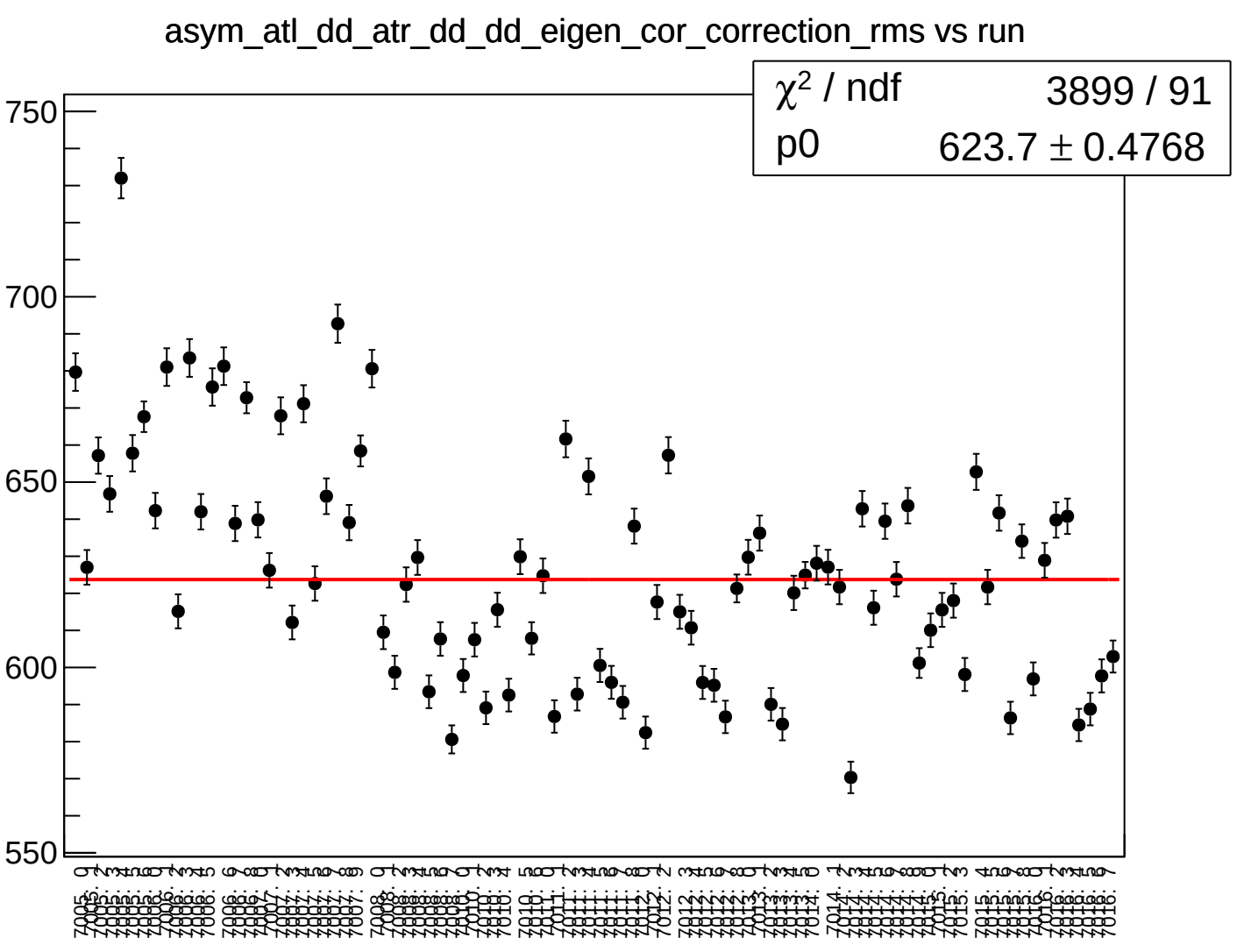

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 71.72 / 91
p0 611 ± 1347
pull
Entries 92
Mean −328.2
Std Dev 0

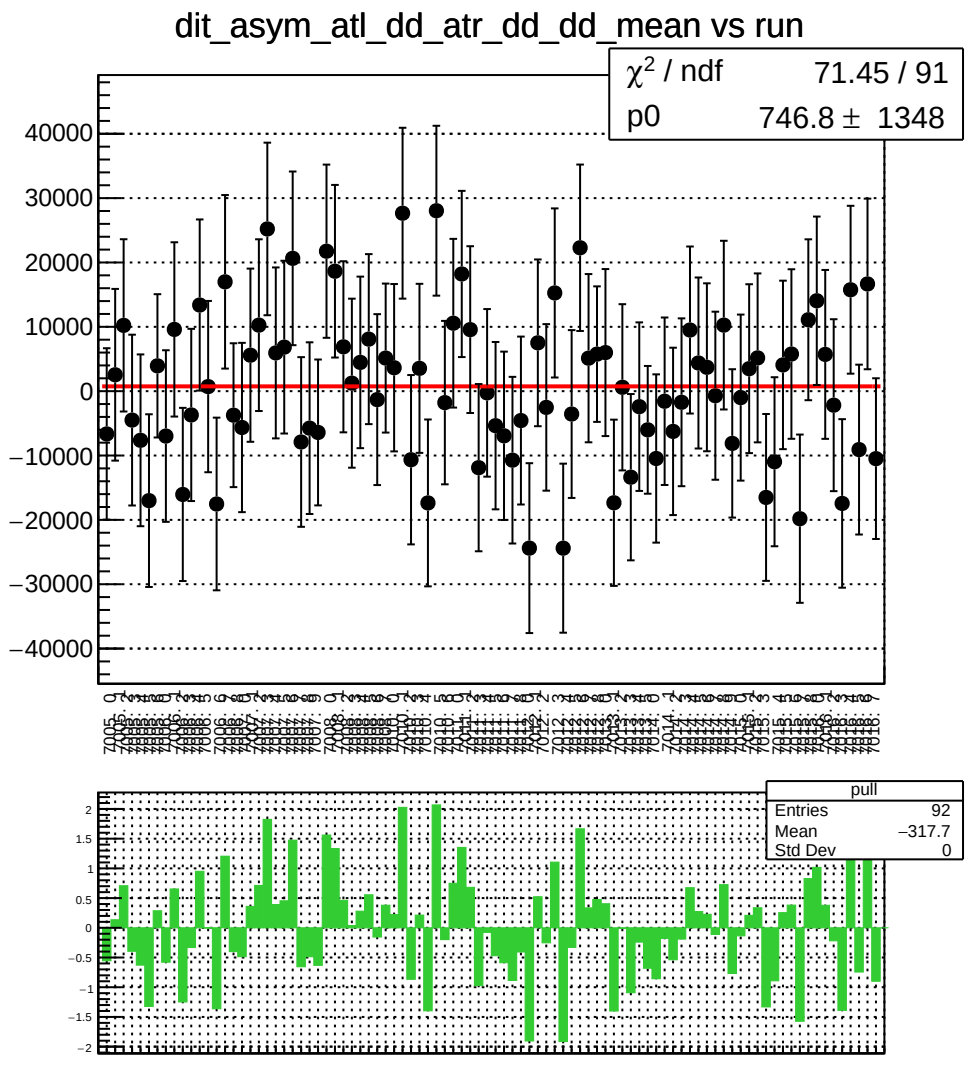

pull1D
Entries 92
Mean 0.005473
Std Dev 0.8829

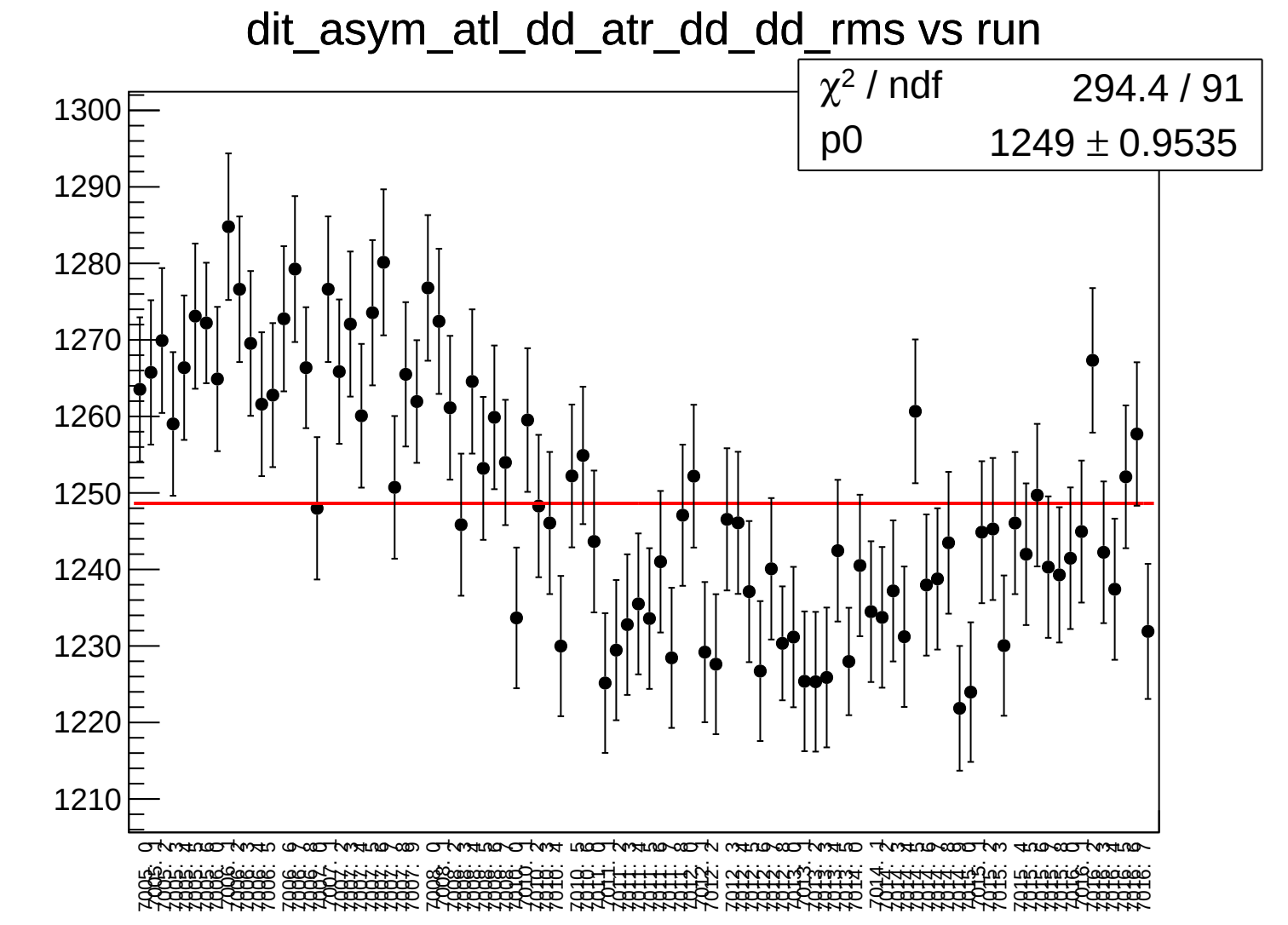

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 297.8 / 91
p0 1247 ± 0.9525
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

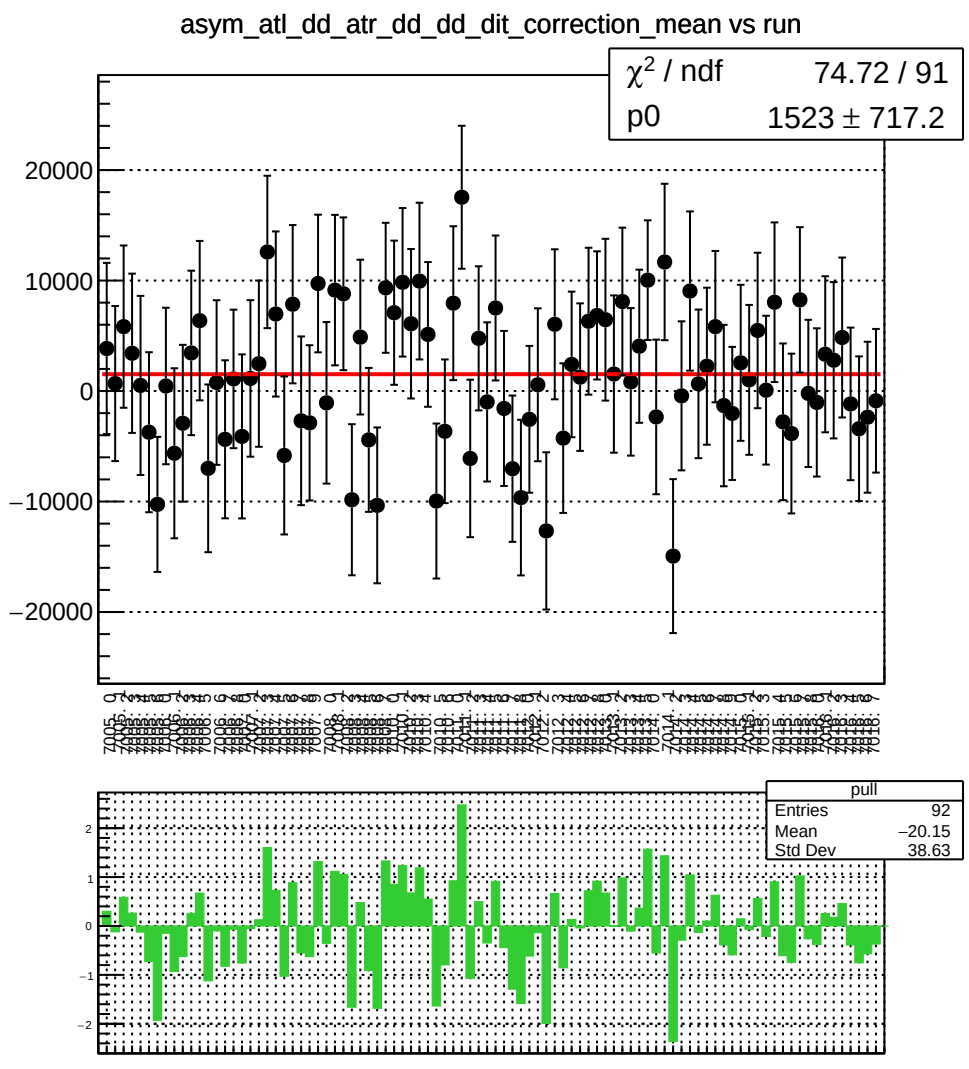

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.38 / 91
p0 1399 ± 674.3
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −0.9678
Std Dev 57.87
2
1
0
−1
−2

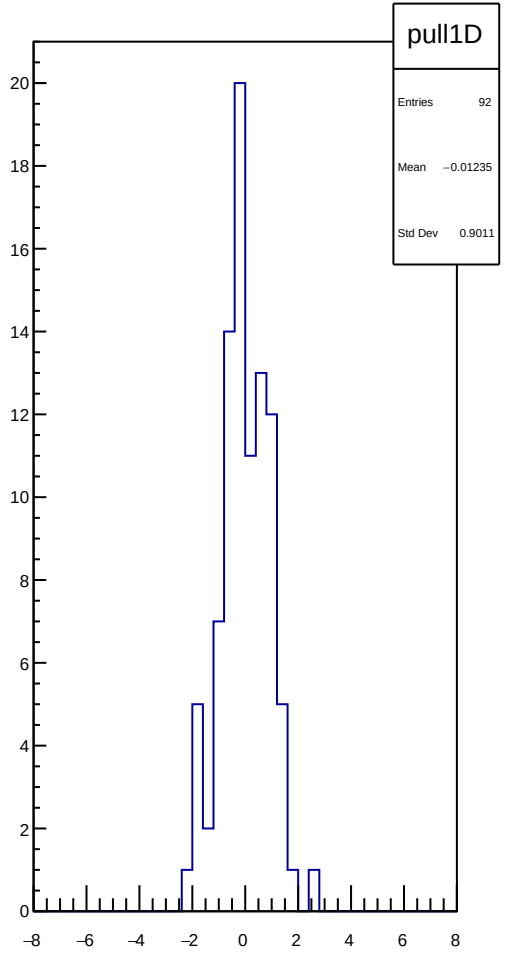

pull1D
Entries 92
Mean −0.01392
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

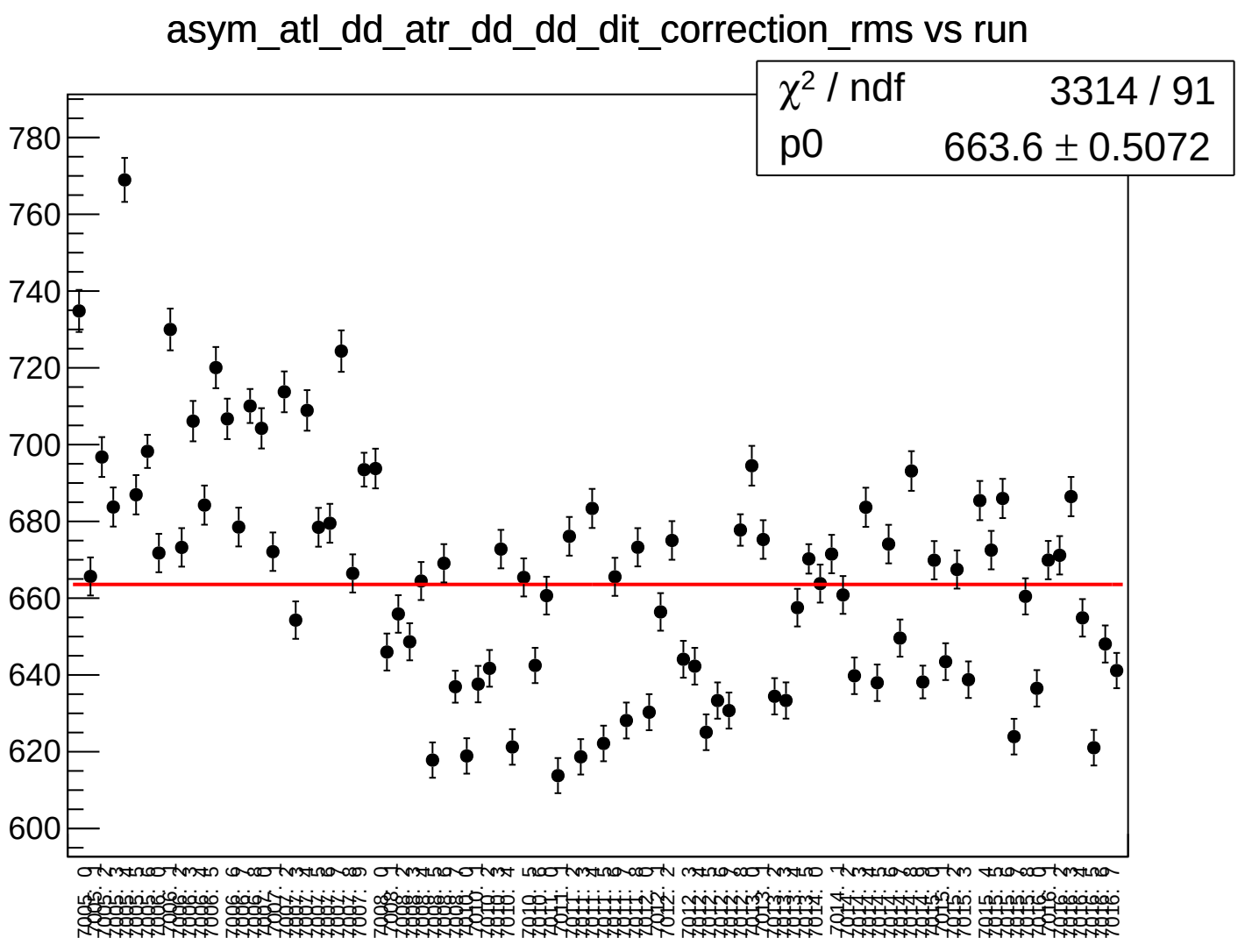

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3899 / 91
p0 623.7 ± 0.4768
750
700
650
600
550

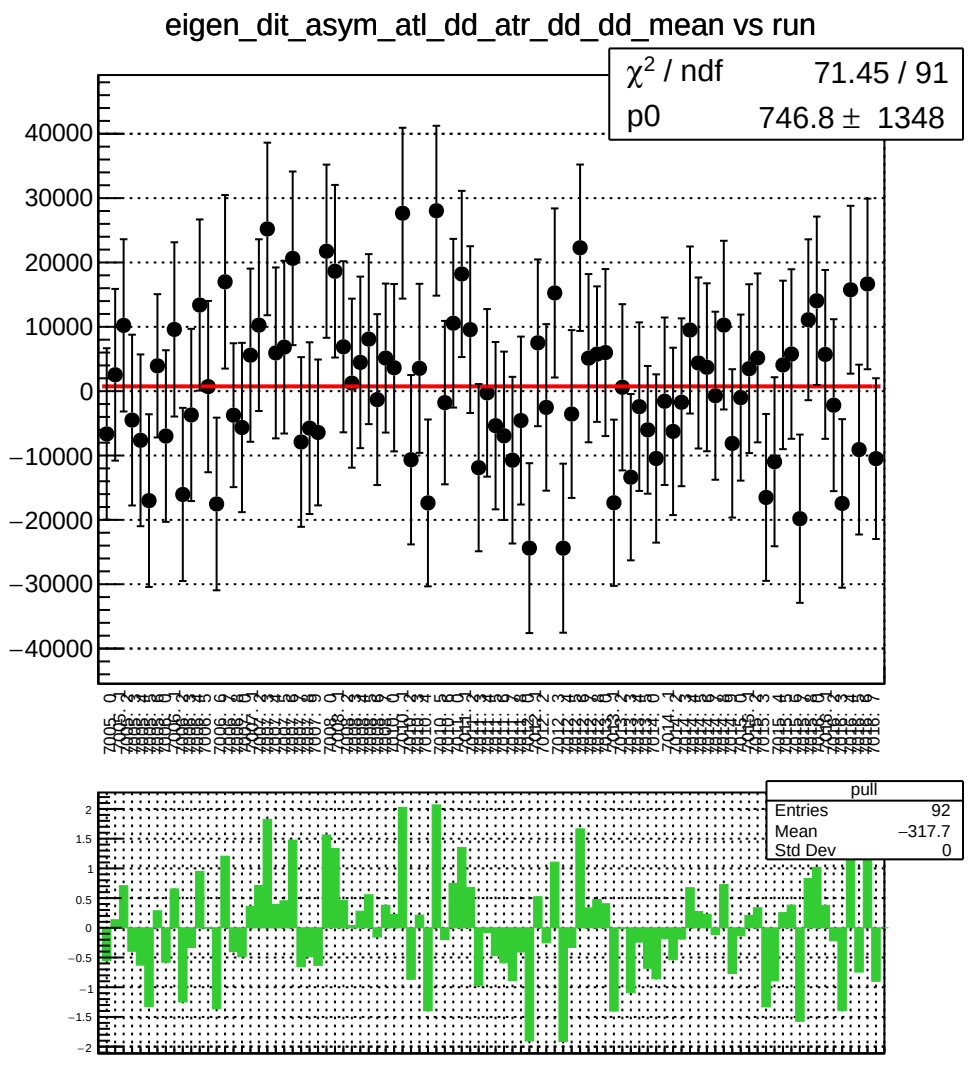

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 71.45 / 91
p0 746.8 ± 1348
pull
Entries 92
Mean −317.7
Std Dev 0
pull1D
Entries 92
Mean 0.005364
Std Dev 0.8813


dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 294.4 / 91
p0 1249 ± 0.9535
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

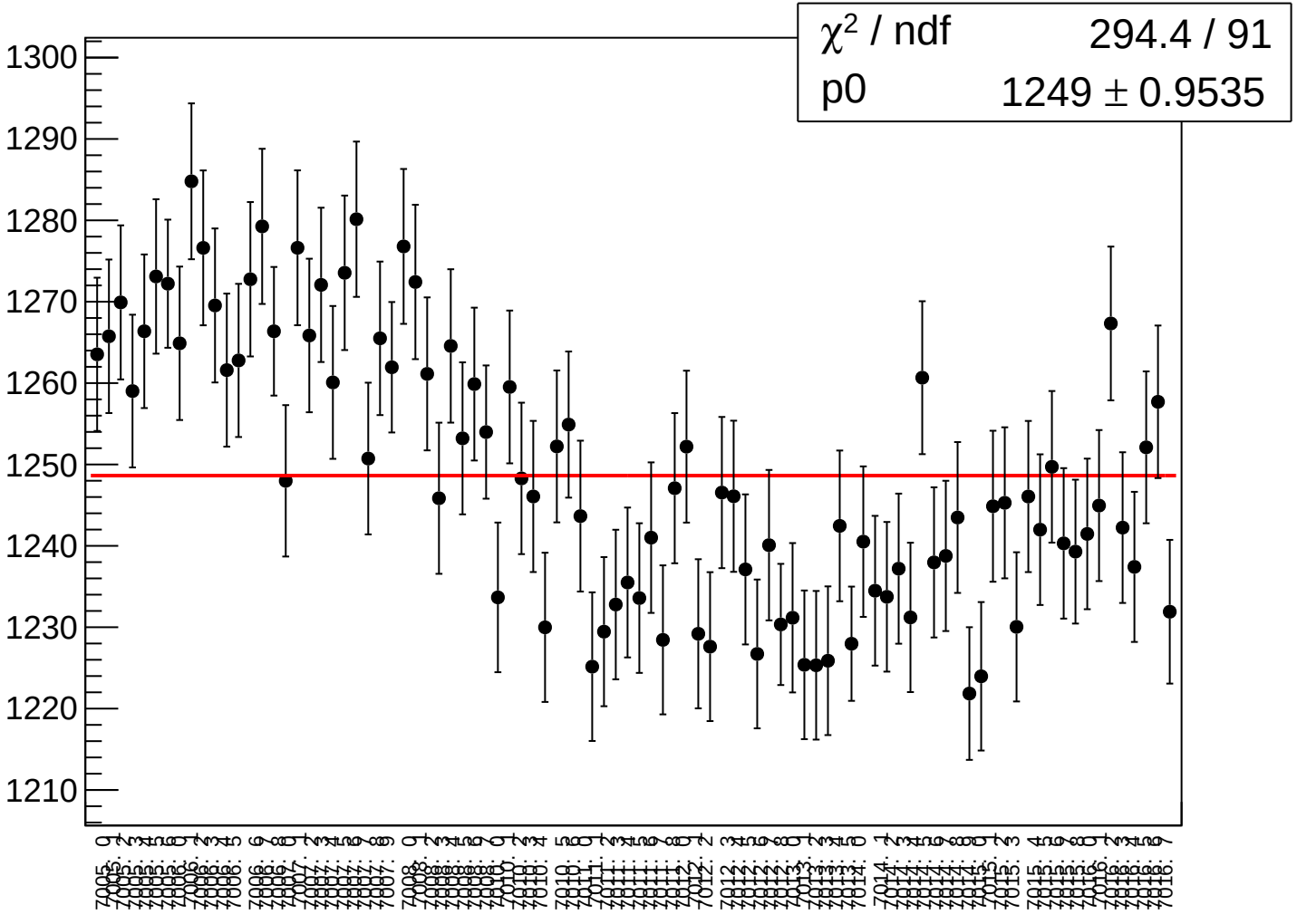

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 74.72 / 91
p0 1523 ± 717.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −20.15
Std Dev 38.63
2
1
0
−1
−2

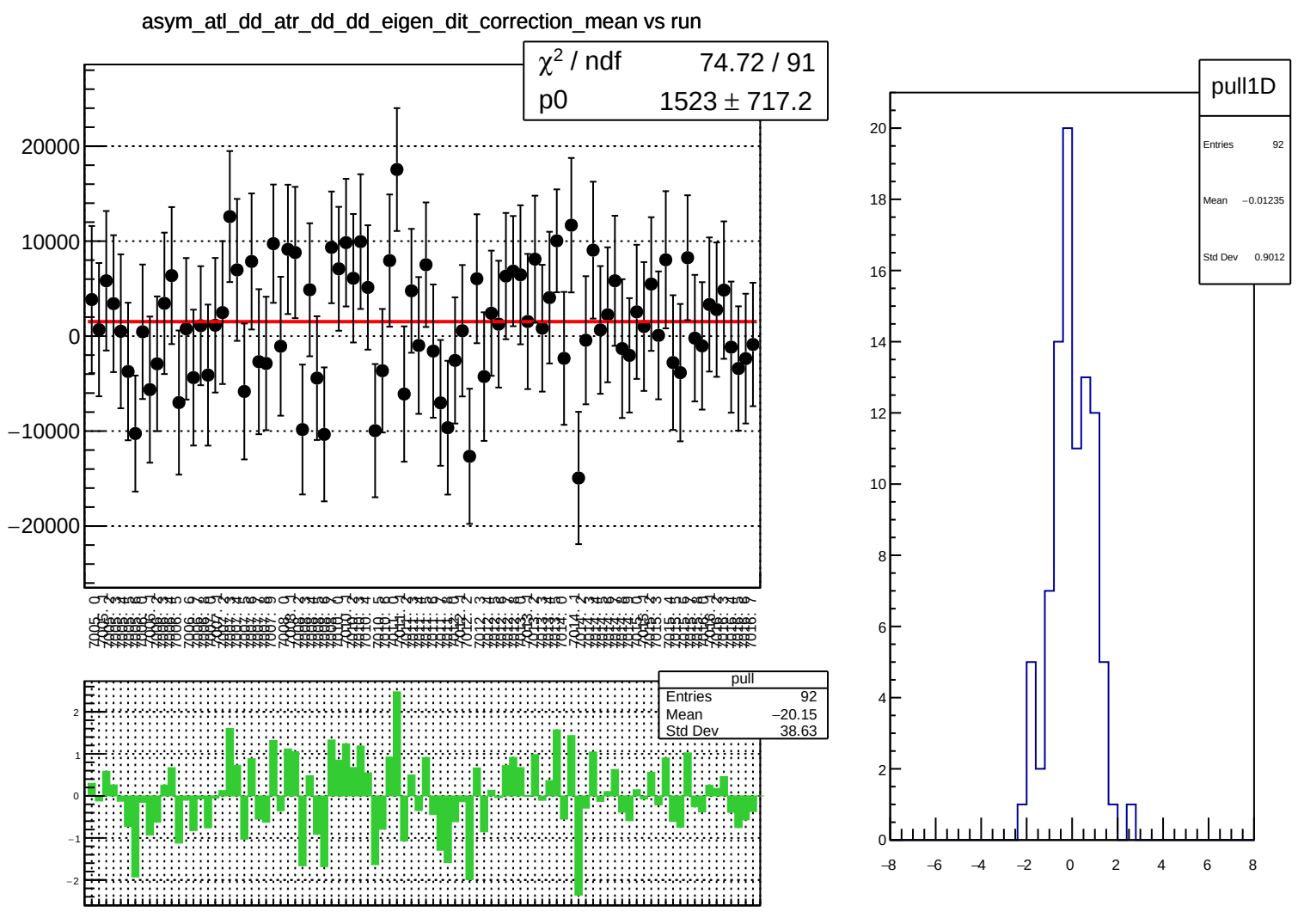

pull1D
Entries 92
Mean −0.01235
Std Dev 0.9011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

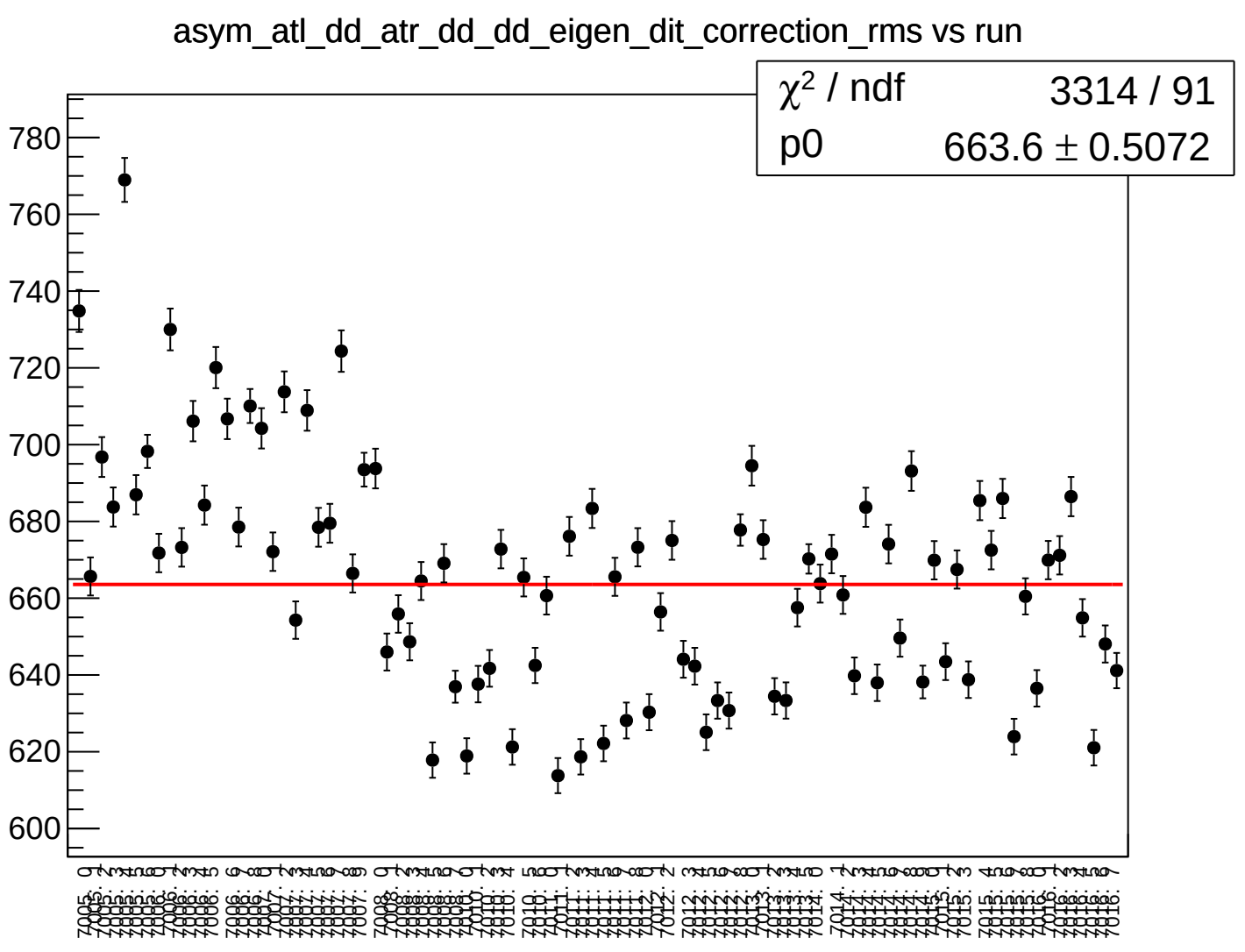

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3314 / 91
p0 663.6 ± 0.5072
780
760
740
720
700
680
660
640
620
600

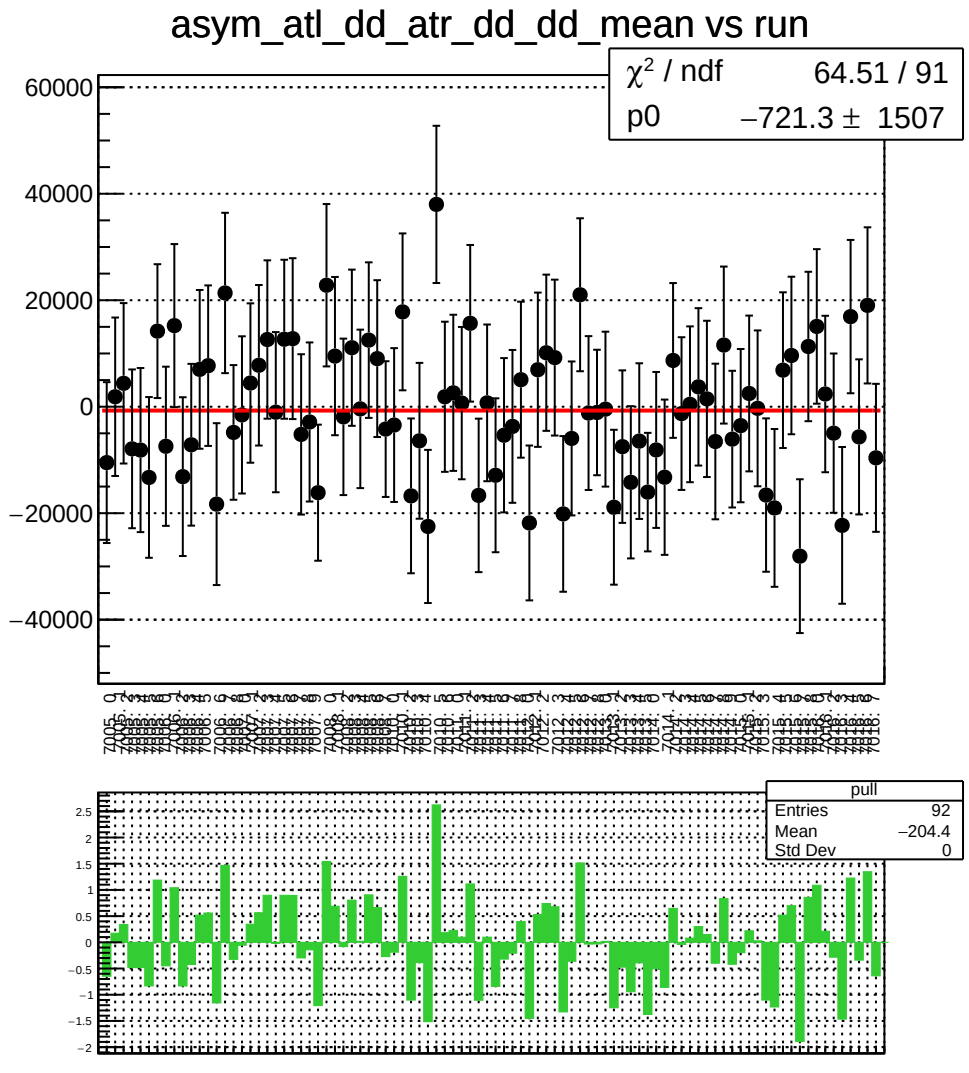

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 71.45 / 91
p0 746.8 ± 1348
pull
Entries 92
Mean −317.7
Std Dev 0
pull1D
Entries 92
Mean 0.005364
Std Dev 0.8813

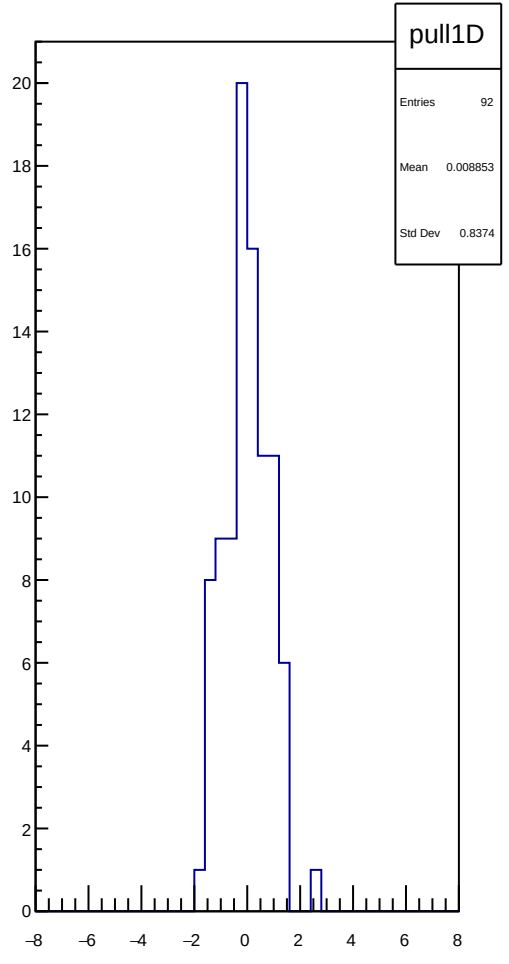
# eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run

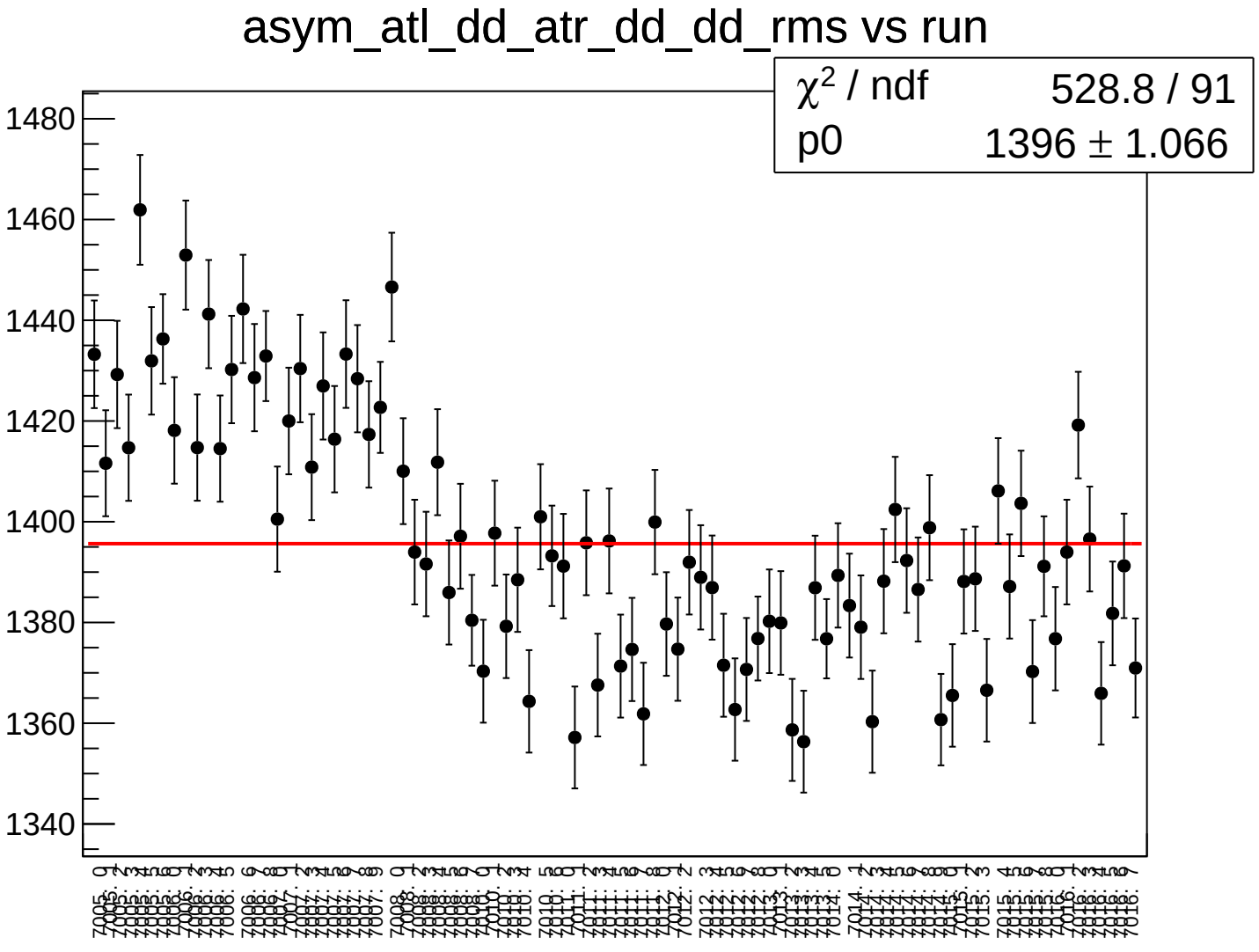


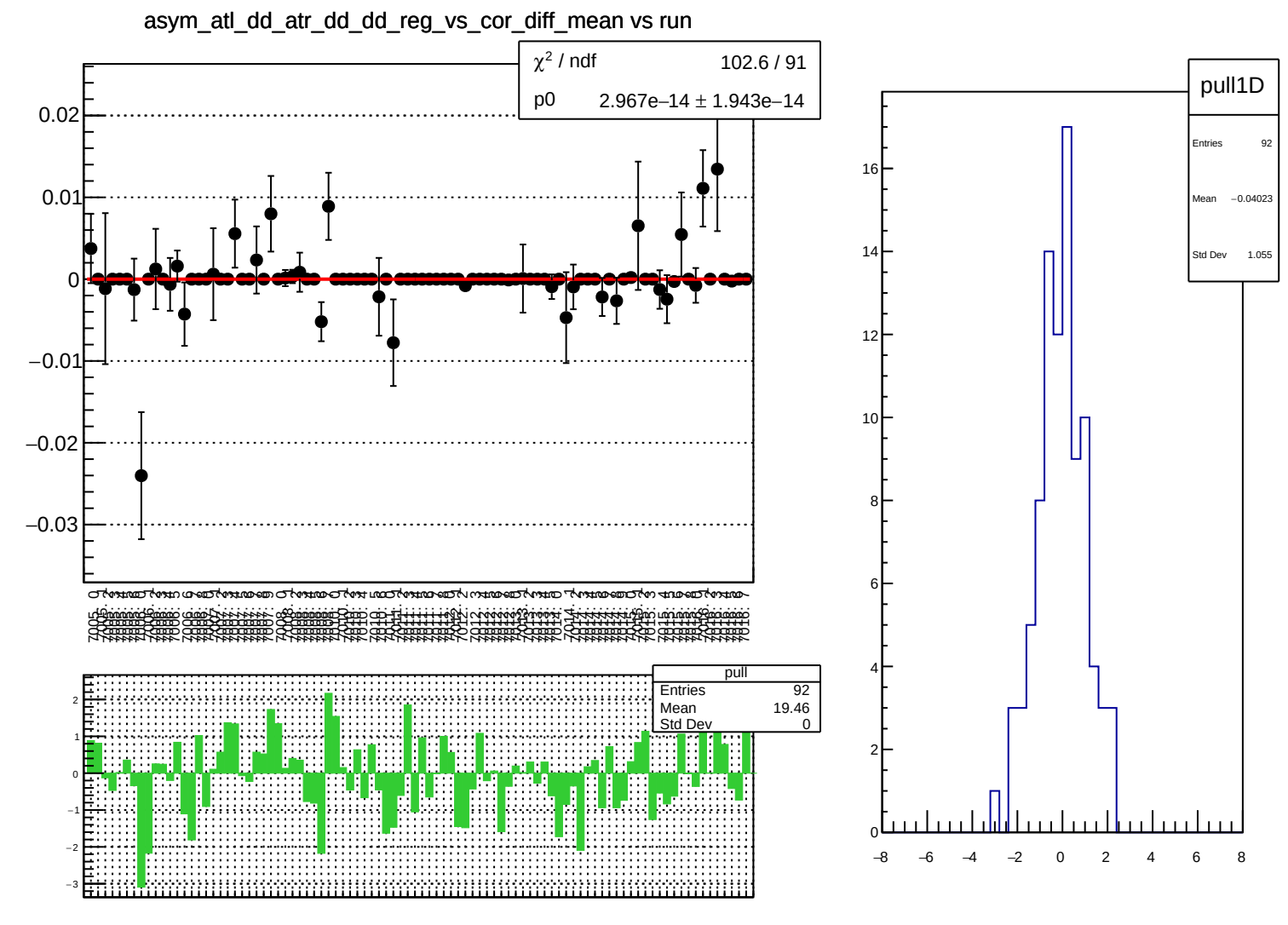

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.72 / 91
p0 1523 ± 717.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −20.15
Std Dev 38.63
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01235
Std Dev 0.9012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

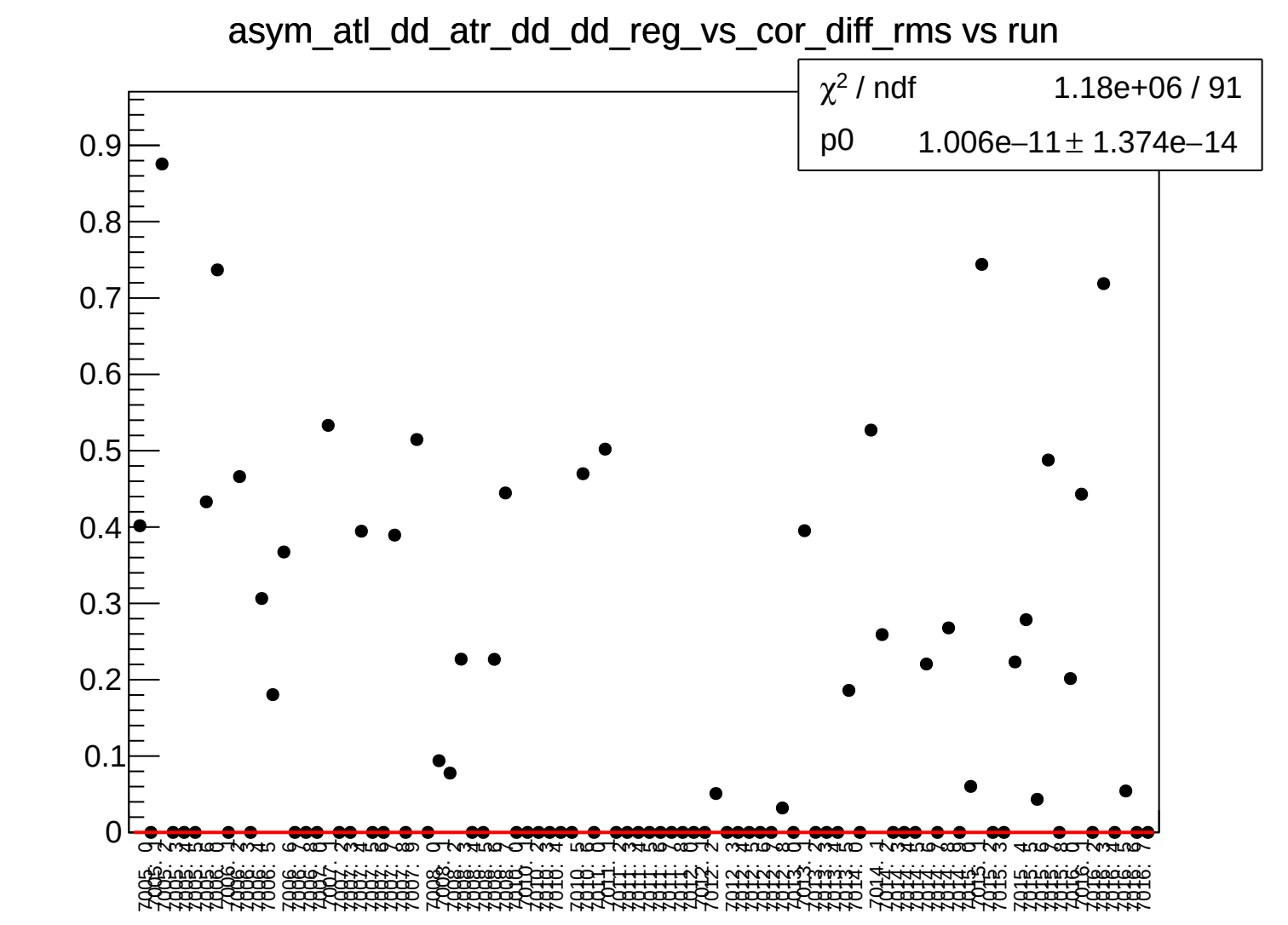

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3314 / 91
p0 663.6 ± 0.5072
780
760
740
720
700
680
660
640
620
600

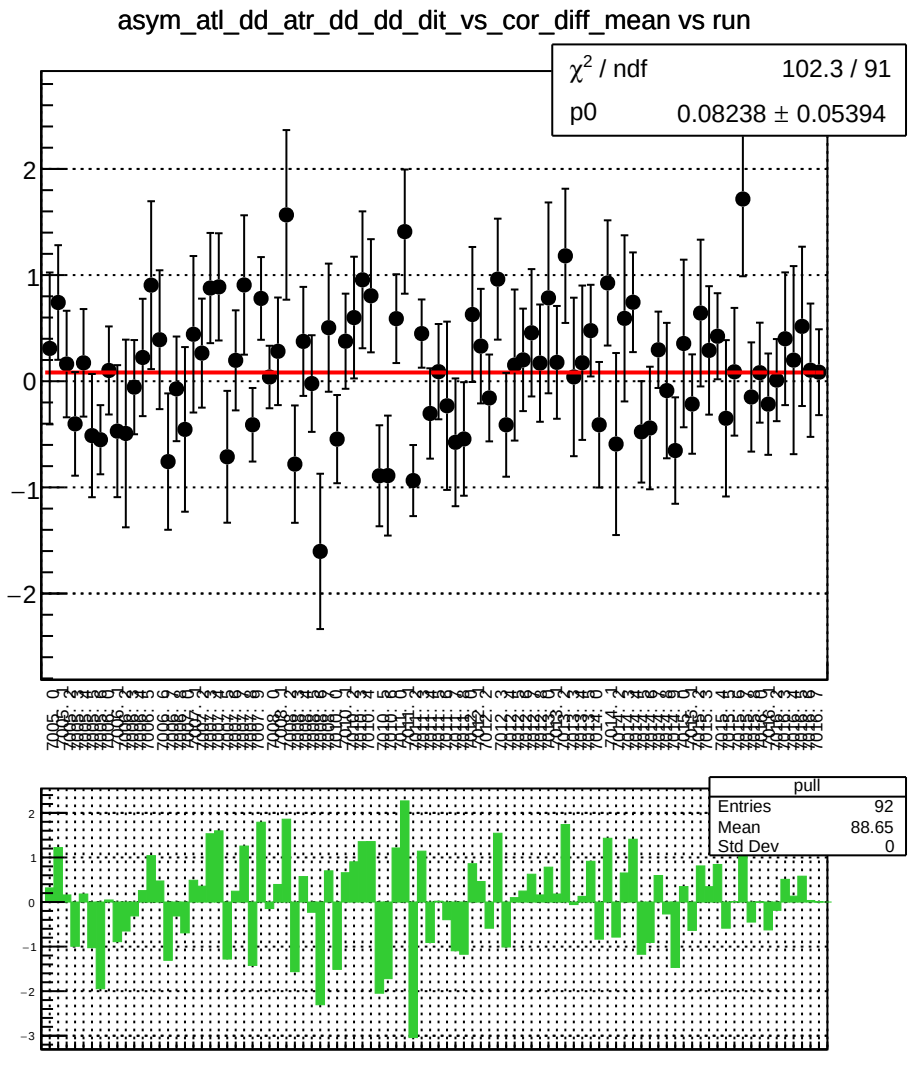

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 64.51 / 91
p0 −721.3 ± 1507
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −204.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

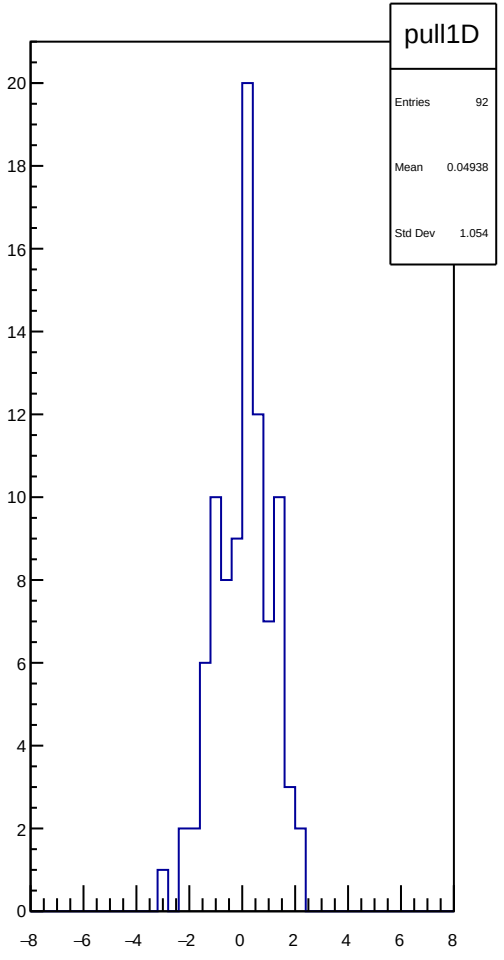

pull1D
Entries 92
Mean 0.008853
Std Dev 0.8374
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

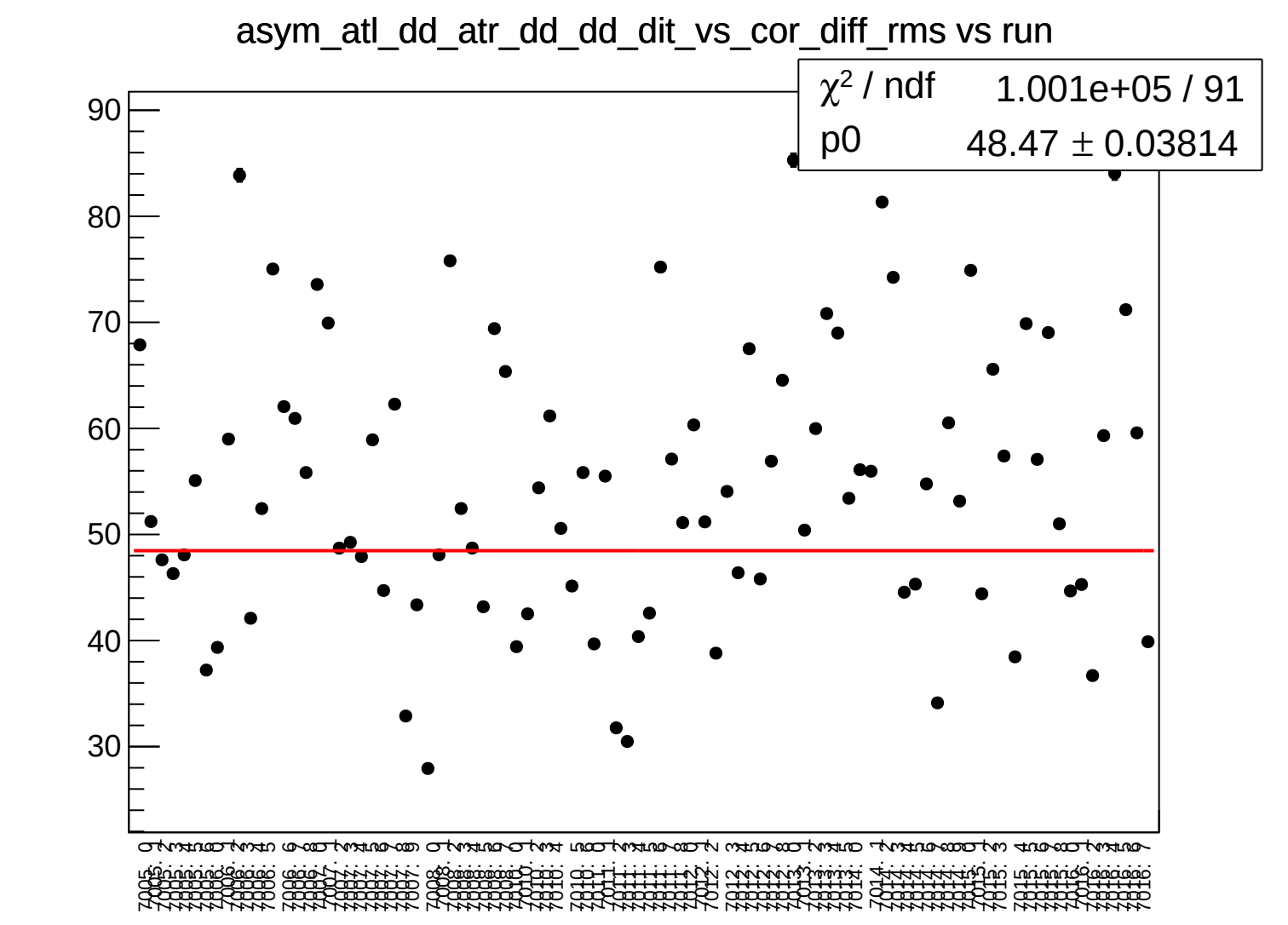

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 528.8 / 91
p0 1396 ± 1.066
1480
1460
1440
1420
1400
1380
1360
1340

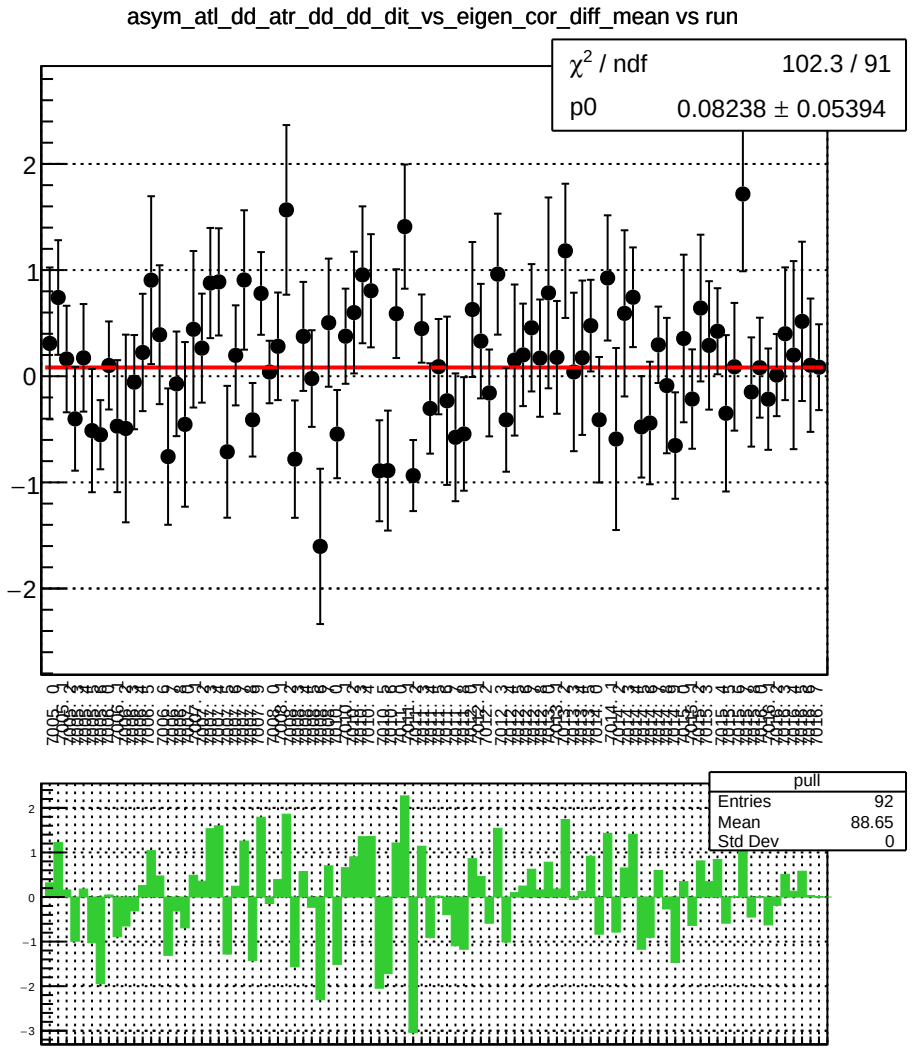

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 91
p0 2.967e−14 ± 1.943e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 19.46
Std Dev 0
pull1D
Entries 92
Mean −0.04023
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

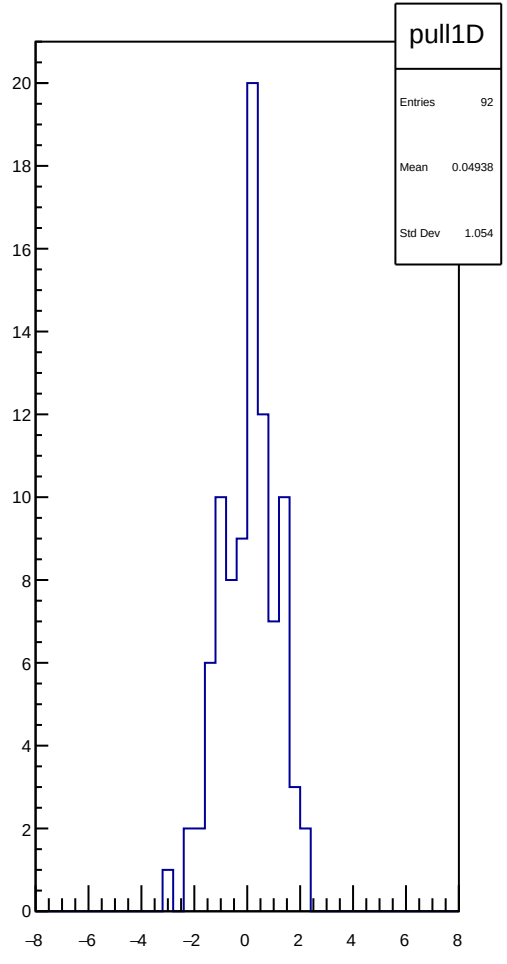

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.18e+06 / 91
p0 1.006e−11 ± 1.374e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

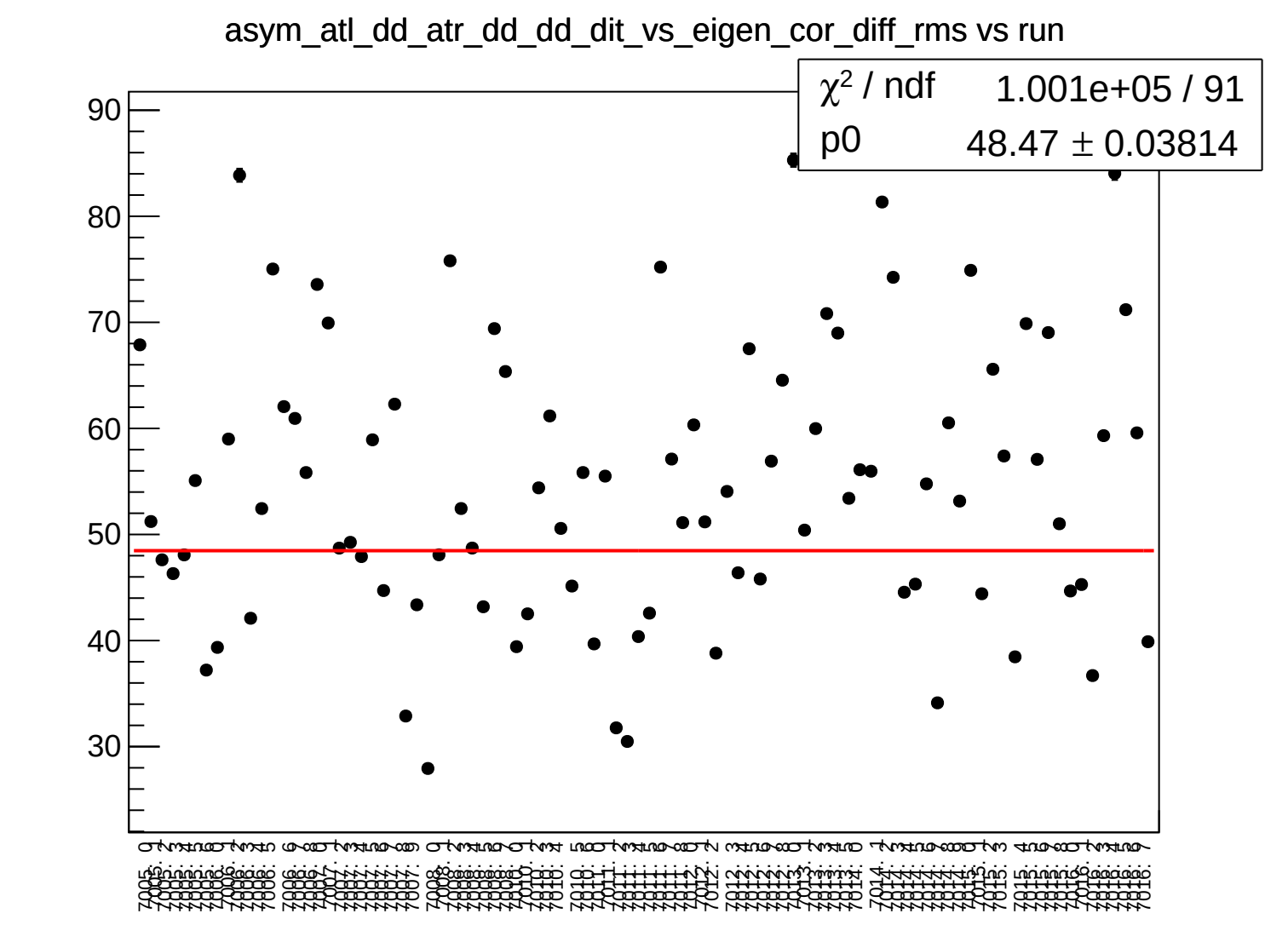

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 91
p0 0.08238 ± 0.05394
pull
Entries 92
Mean 88.65
Std Dev 0

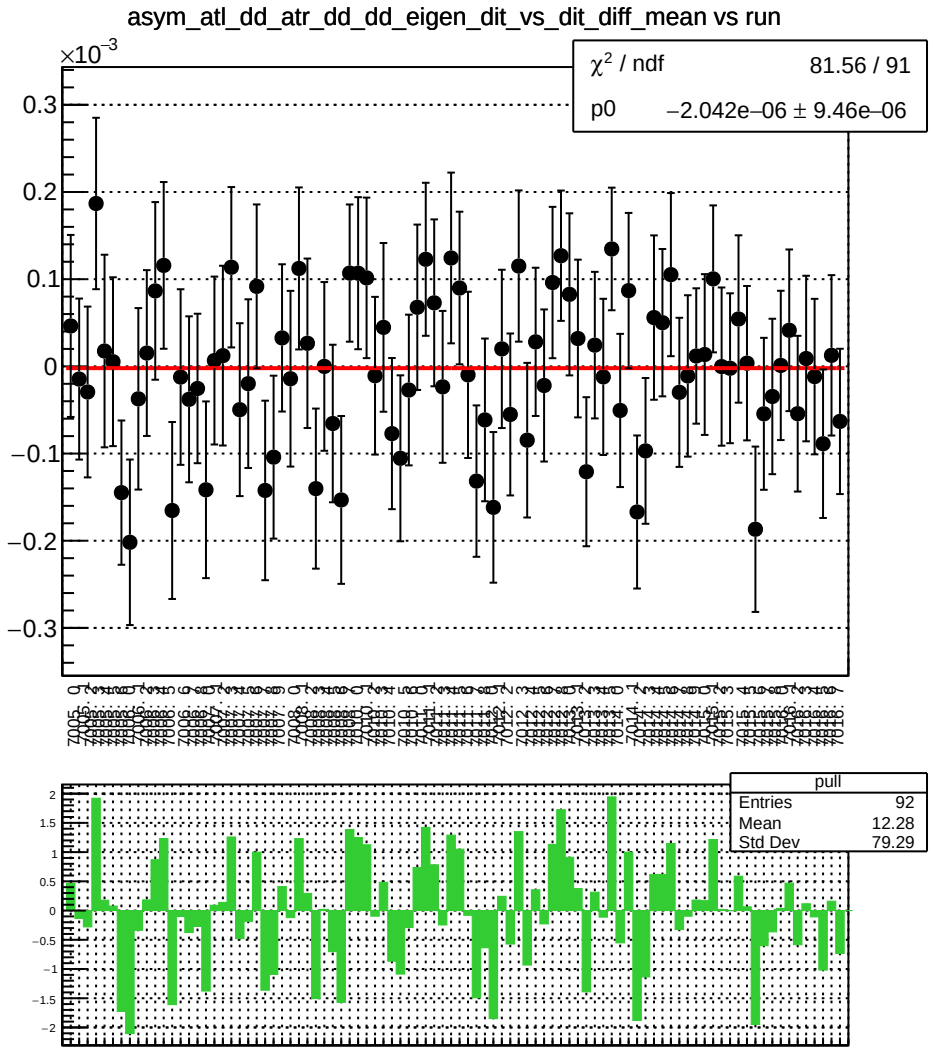

pull1D
Entries 92
Mean 0.04938
Std Dev 1.054

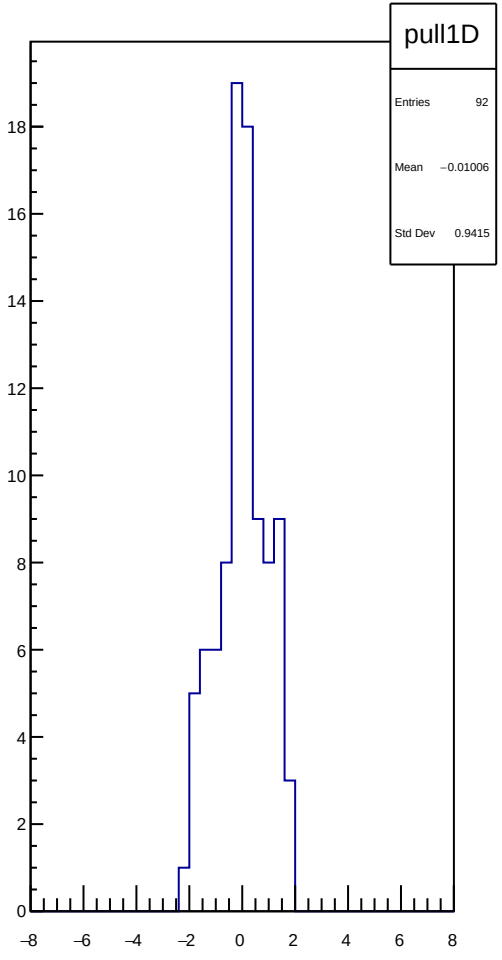

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 91
p0 48.47 ± 0.03814
90
80
70
60
50
40
30

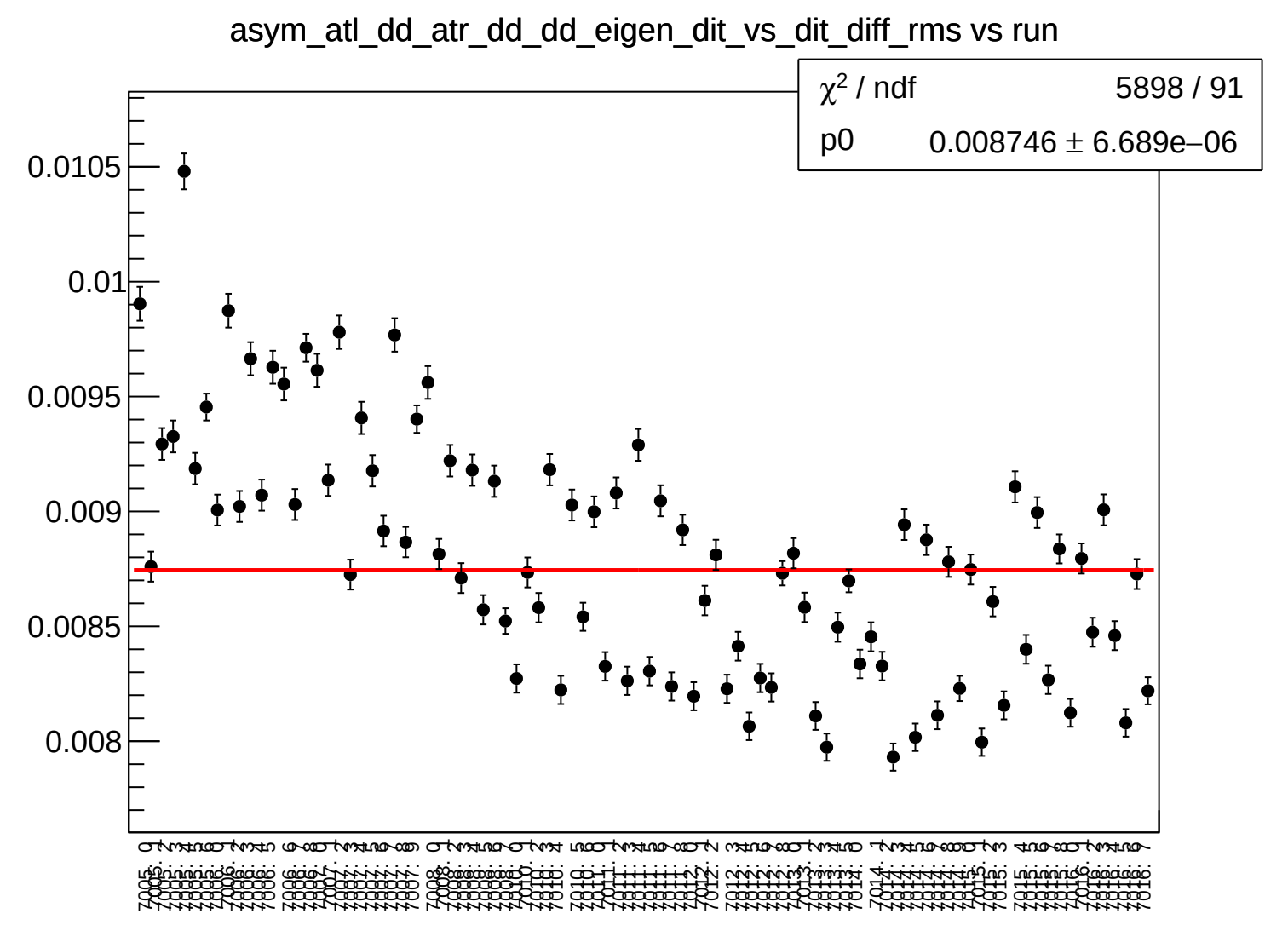

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.3 / 91
p0 0.08238 ± 0.05394
pull
Entries 92
Mean 88.65
Std Dev 0

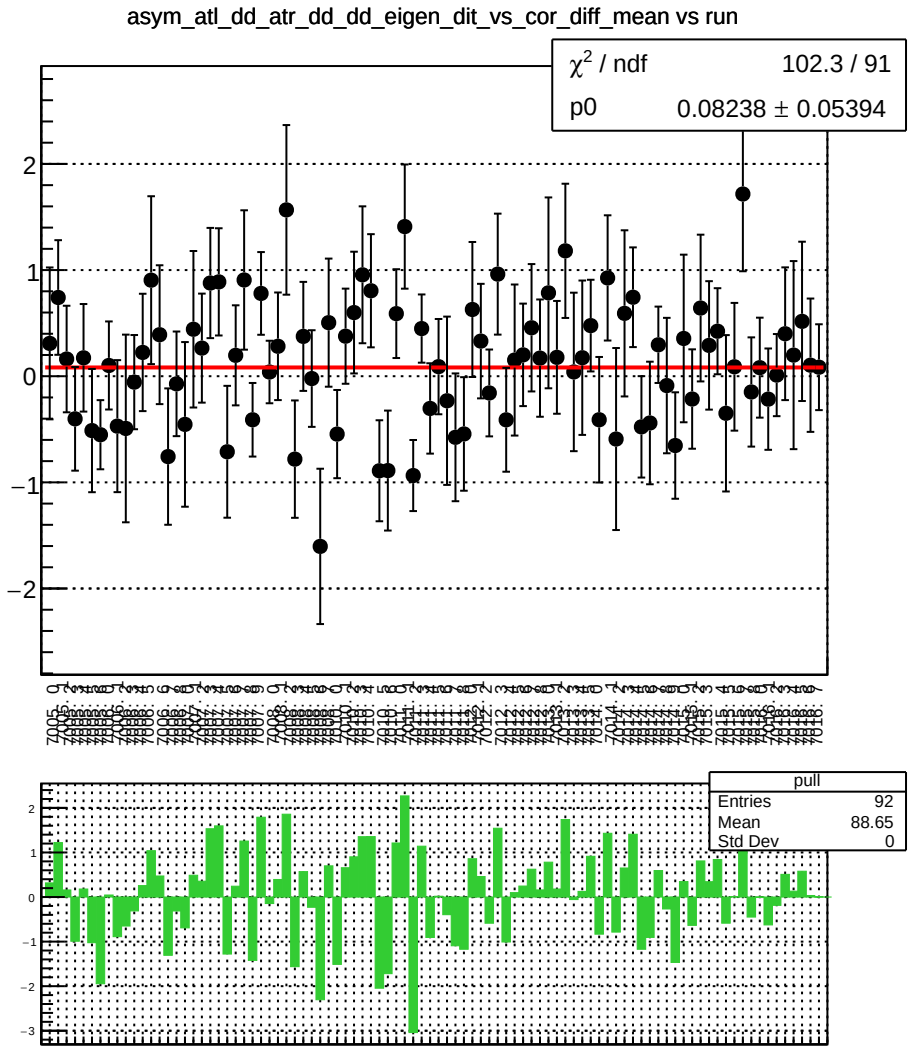

pull1D
Entries 92
Mean 0.04938
Std Dev 1.054

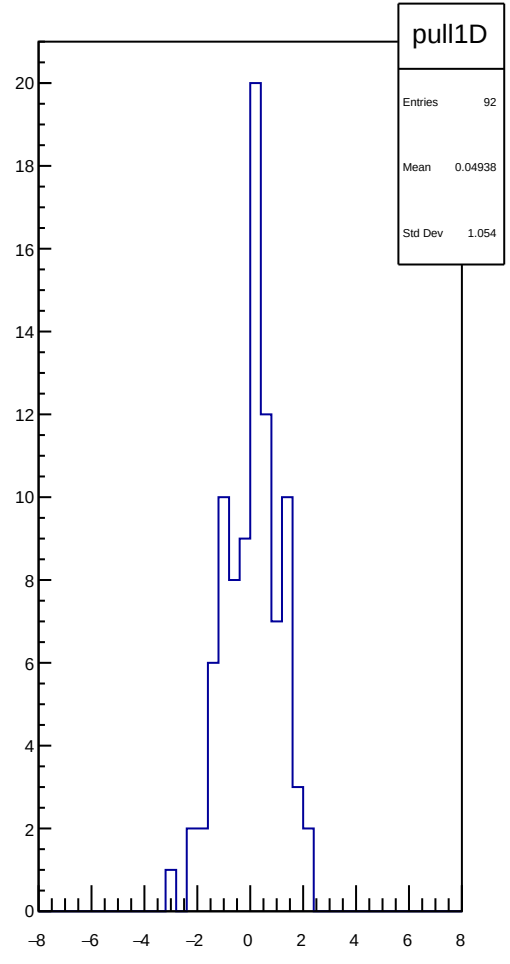

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 91
p0 48.47 ± 0.03814
90
80
70
60
50
40
30

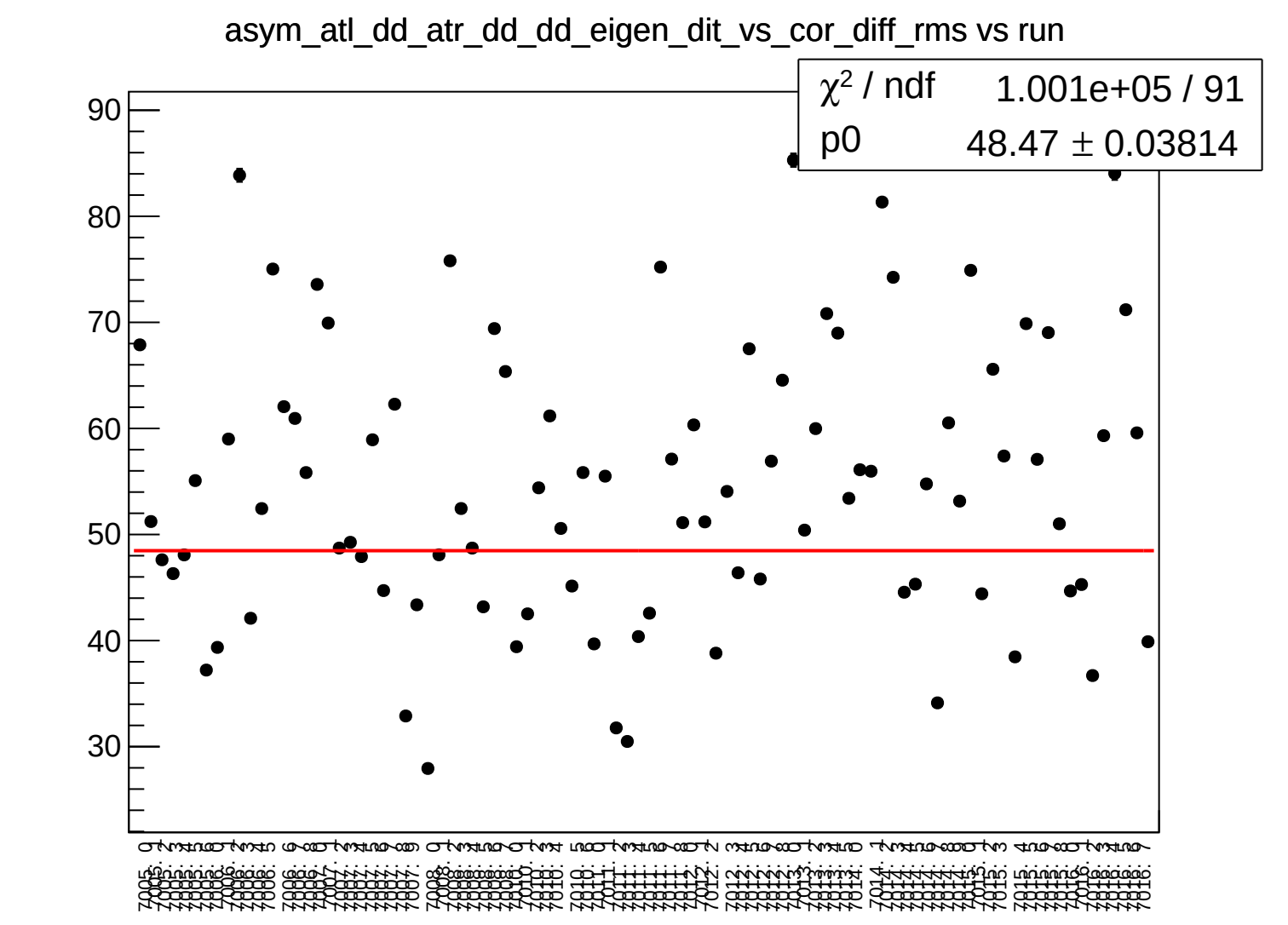

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.56 / 91
p0 −2.042e−06 ± 9.46e−06
pull
Entries 92
Mean 12.28
Std Dev 79.29

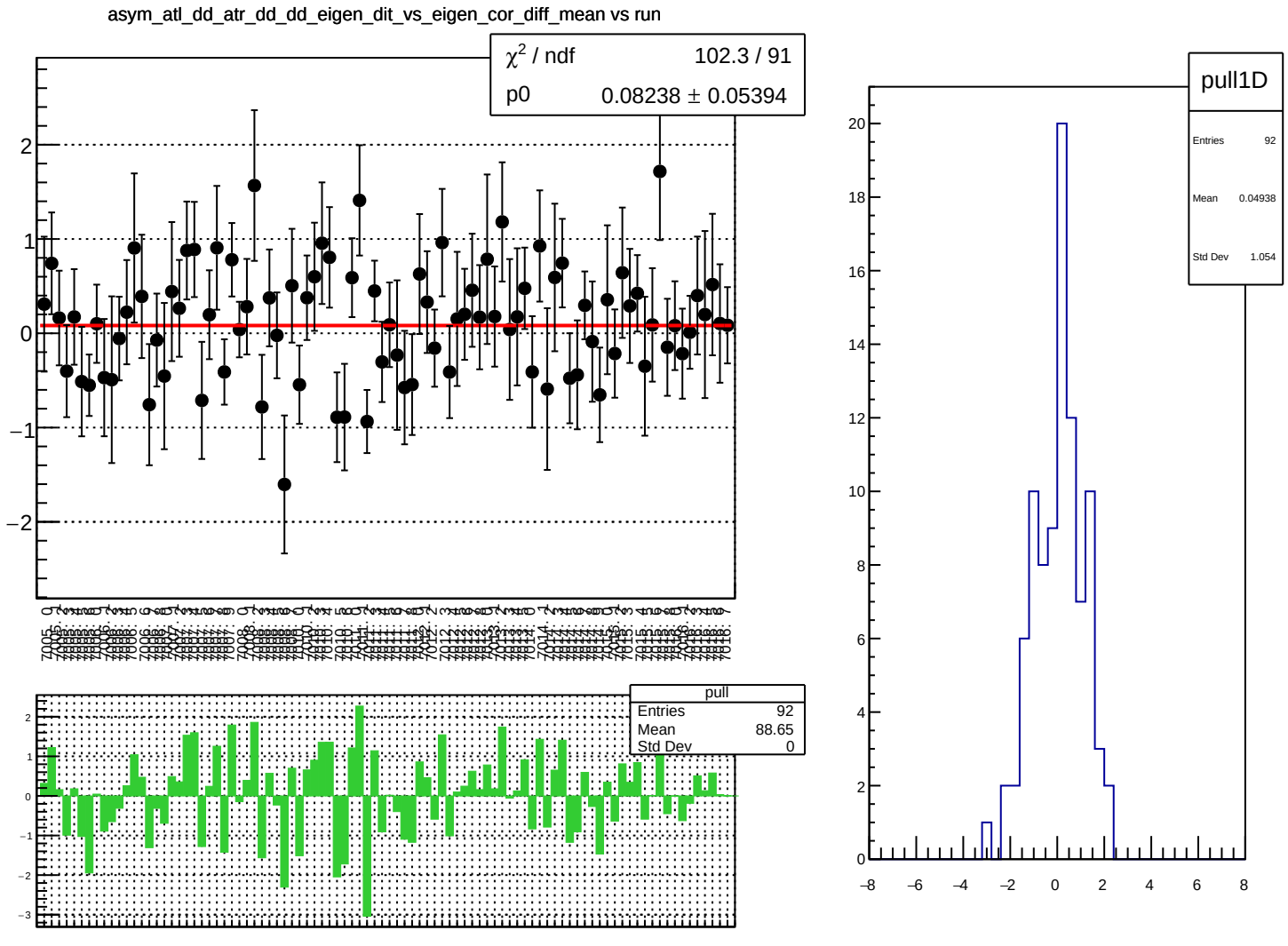

pull1D
Entries 92
Mean −0.01006
Std Dev 0.9415

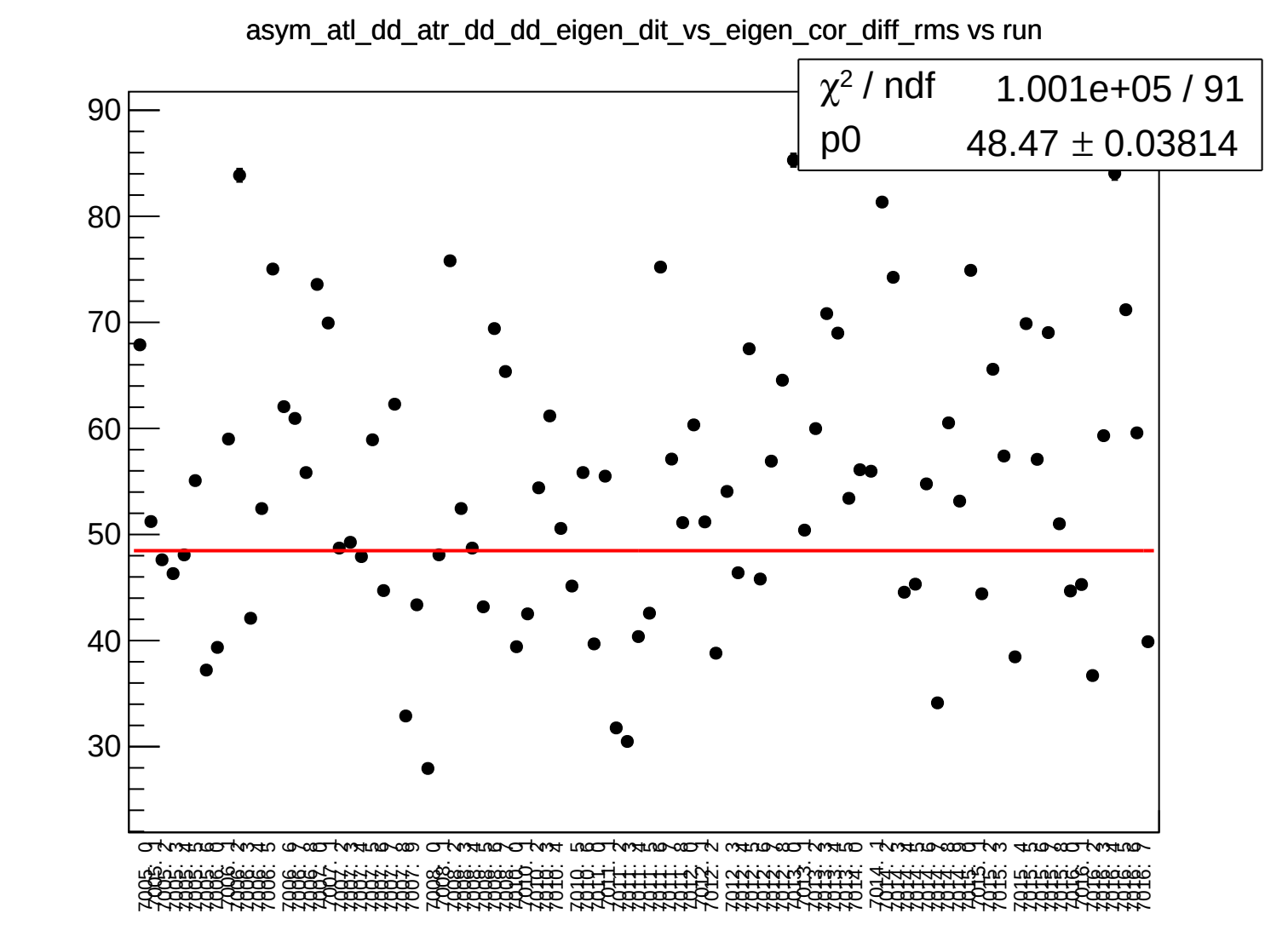

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5898 / 91
p0 0.008746 ± 6.689e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008

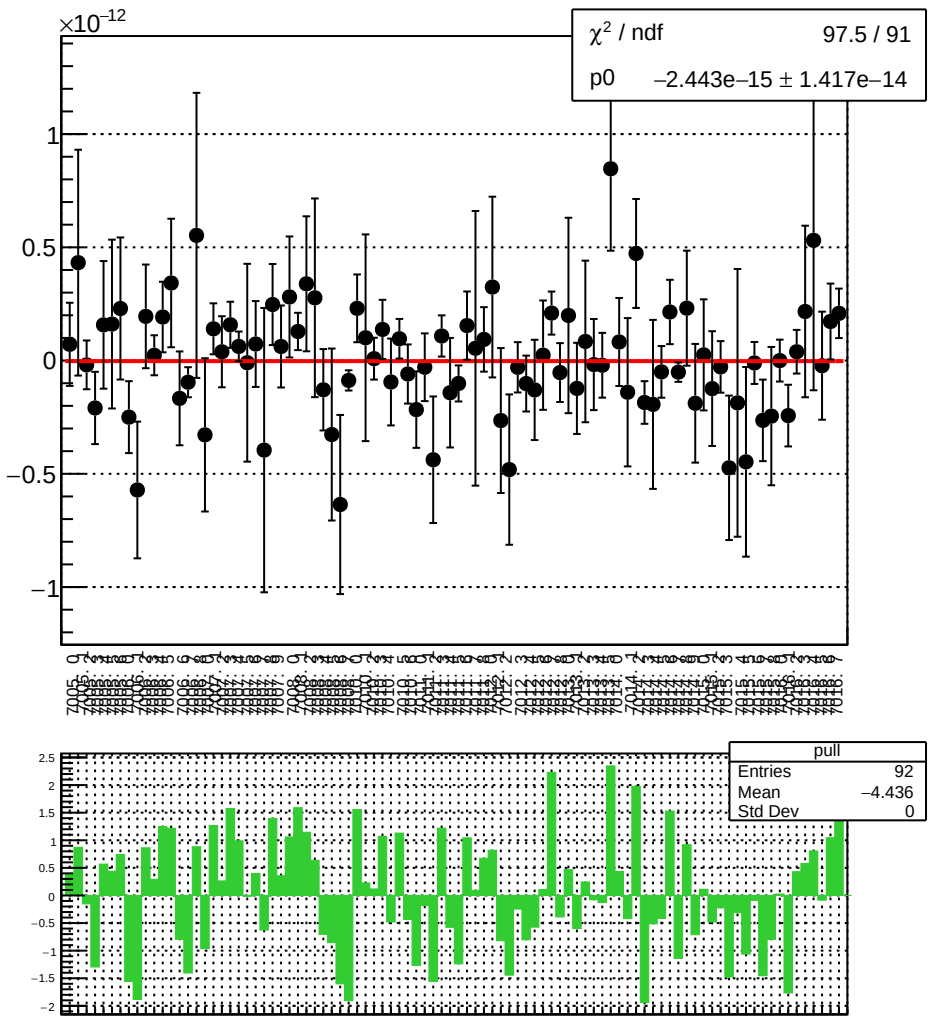

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 91
p0 0.08238 ± 0.05394
pull
Entries 92
Mean 88.65
Std Dev 0

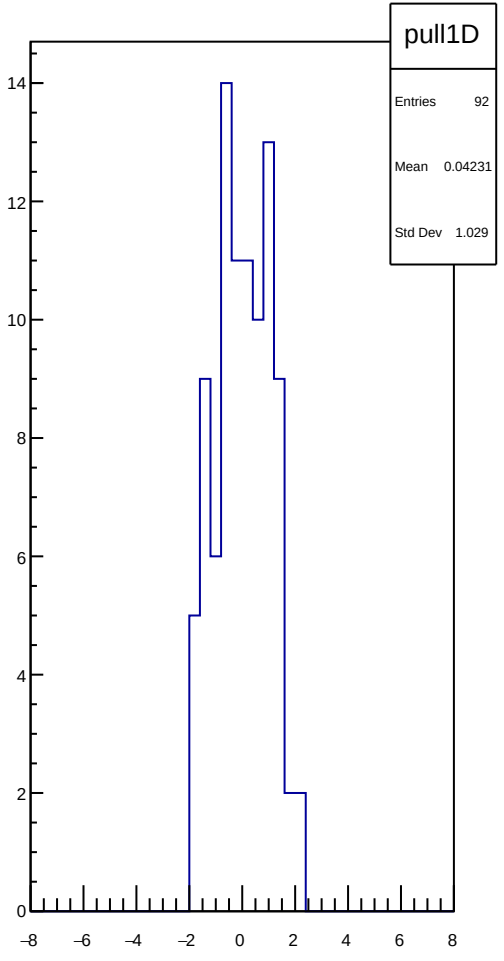

pull1D
Entries 92
Mean 0.04938
Std Dev 1.054

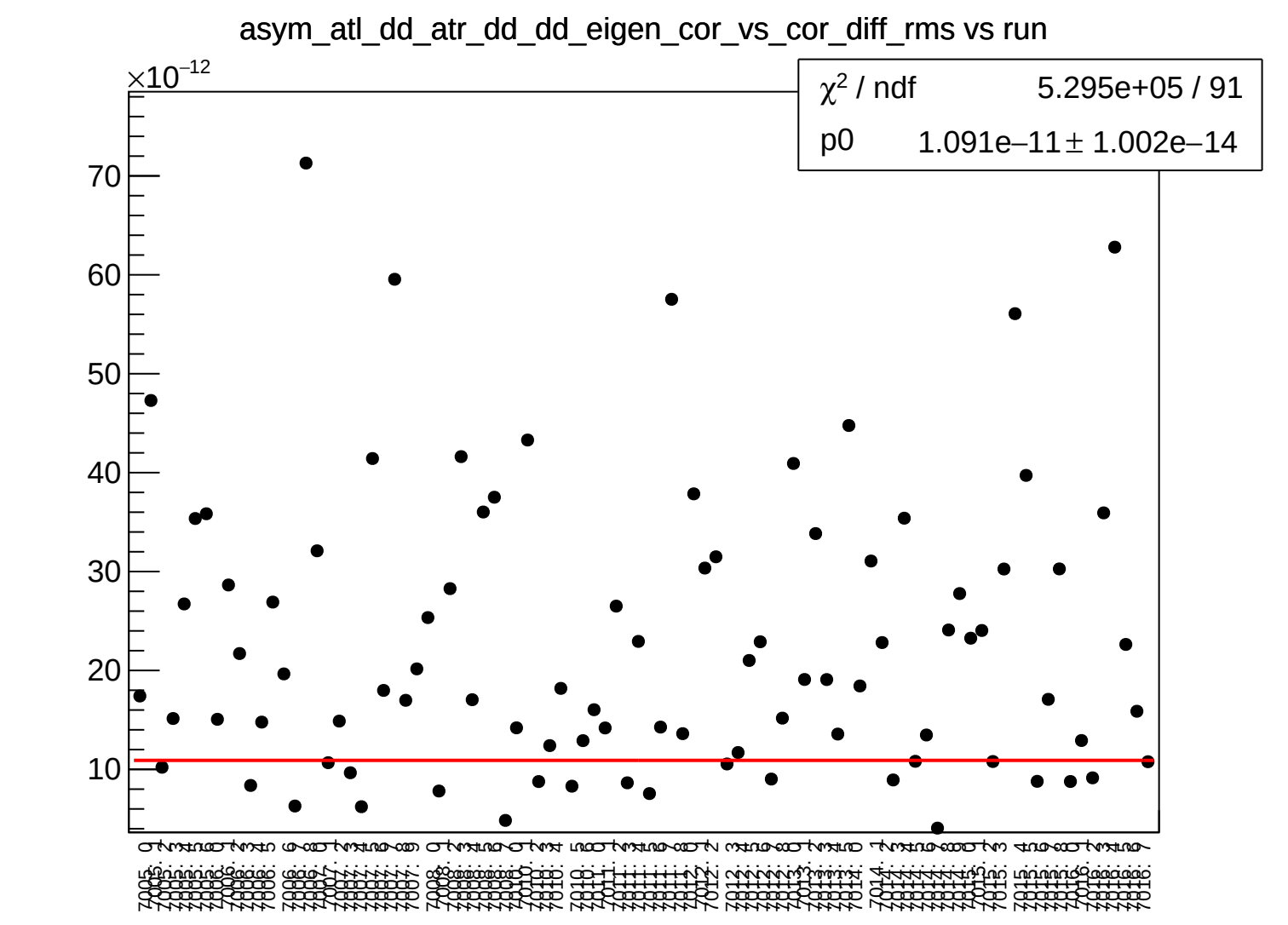

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 91
p0 48.47 ± 0.03814
90
80
70
60
50
40
30

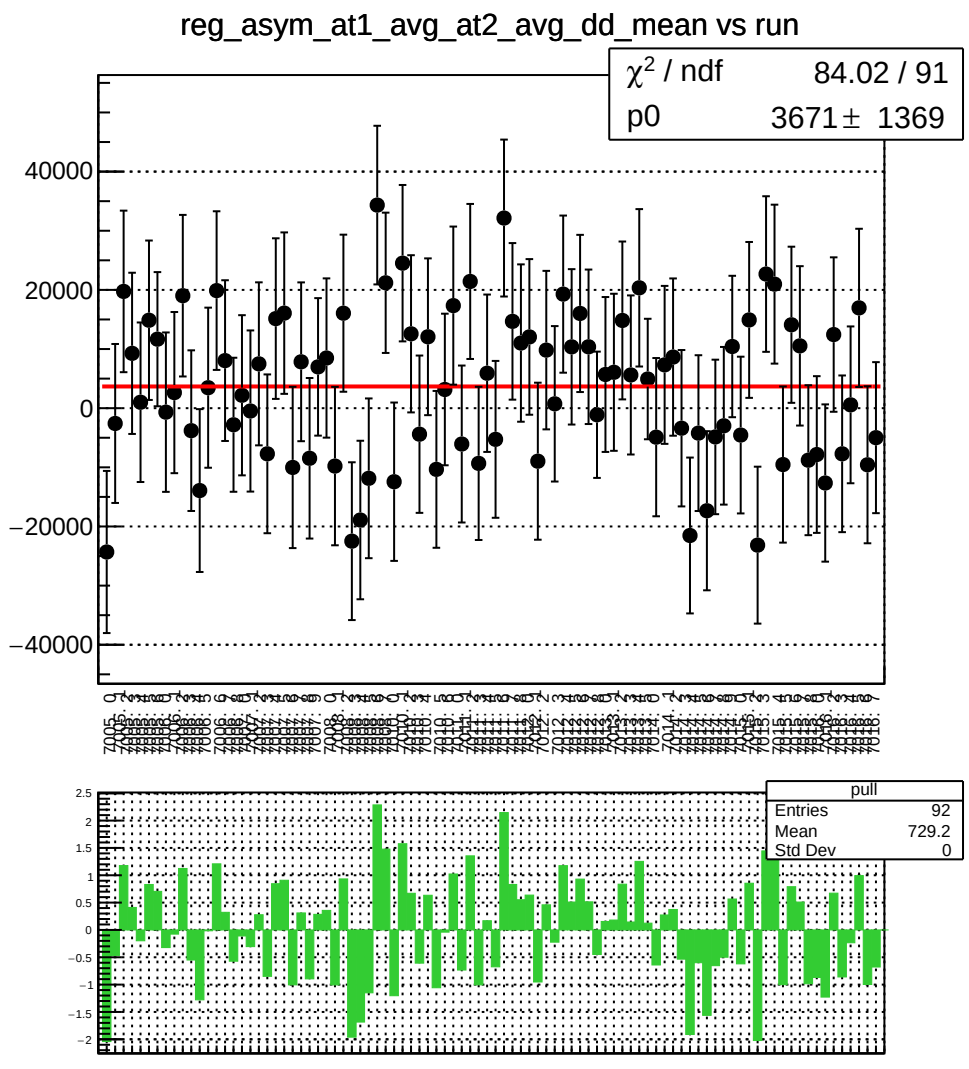

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.3 / 91
p0 0.08238 ± 0.05394
pull
Entries 92
Mean 88.65
Std Dev 0
pull1D
Entries 92
Mean 0.04938
Std Dev 1.054

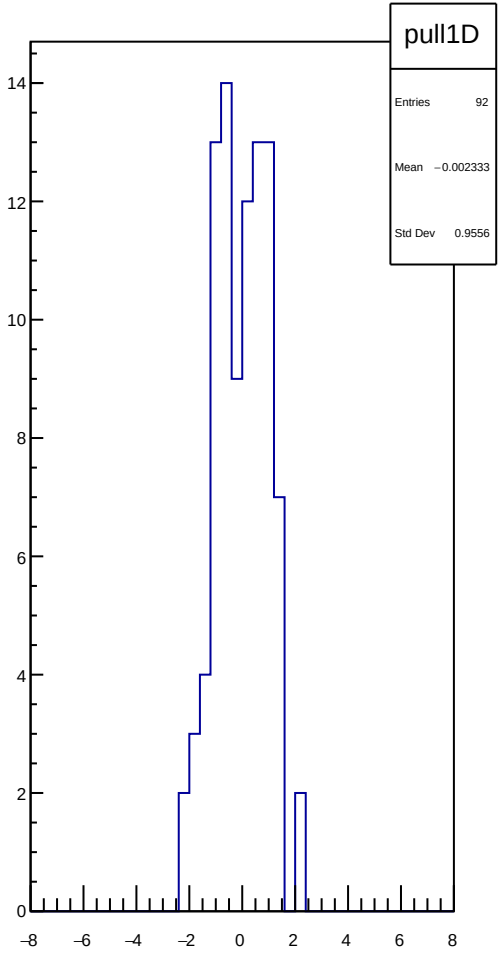

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 91
p0 48.47 ± 0.03814
90
80
70
60
50
40
30

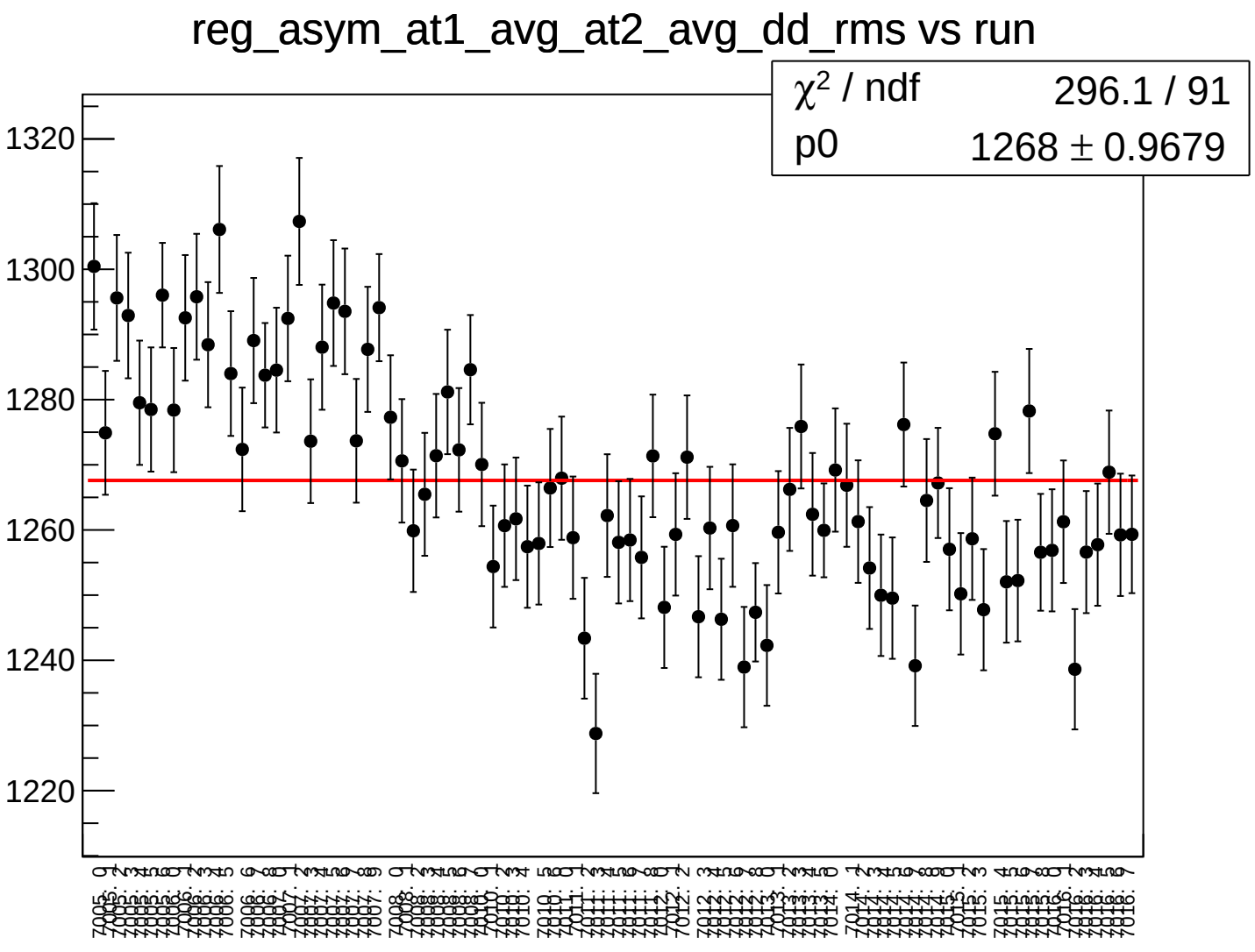

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.5 / 91
p0 −2.443e−15 ± 1.417e−14
pull
Entries 92
Mean −4.436
Std Dev 0

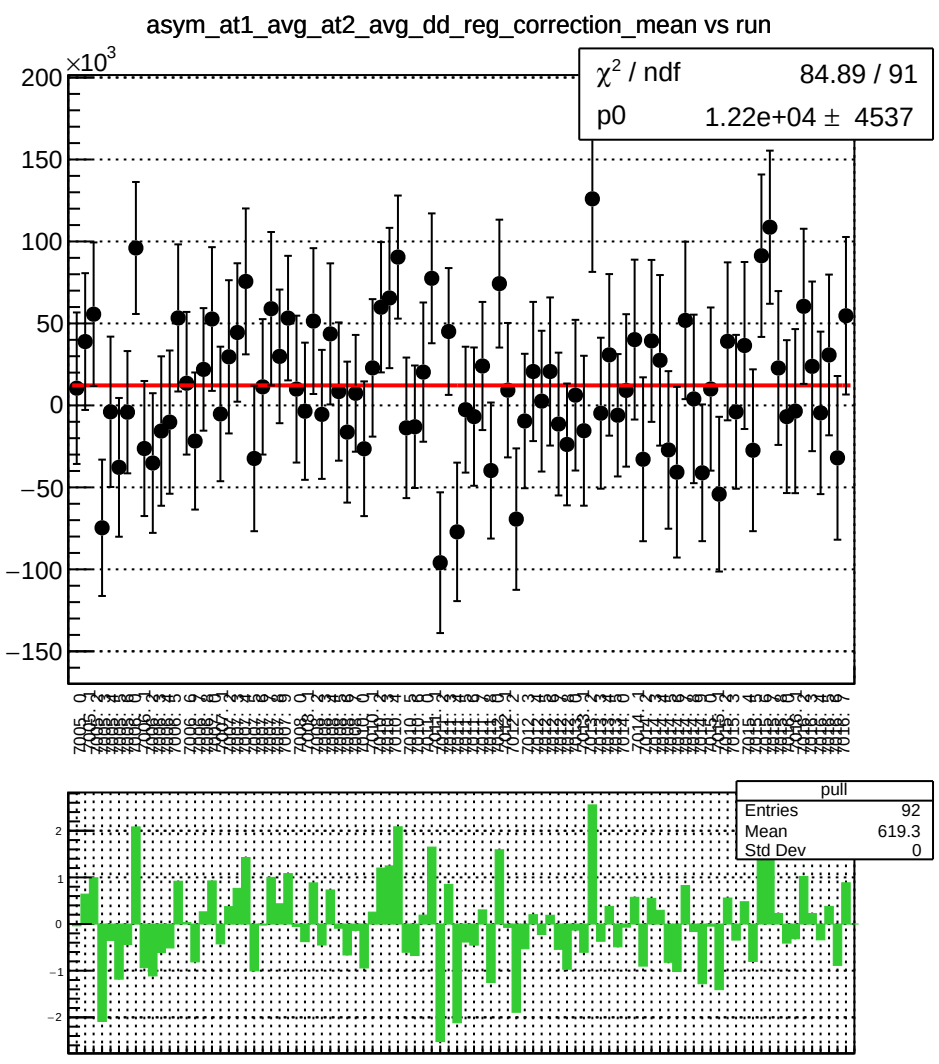

pull1D
Entries 92
Mean 0.04231
Std Dev 1.029

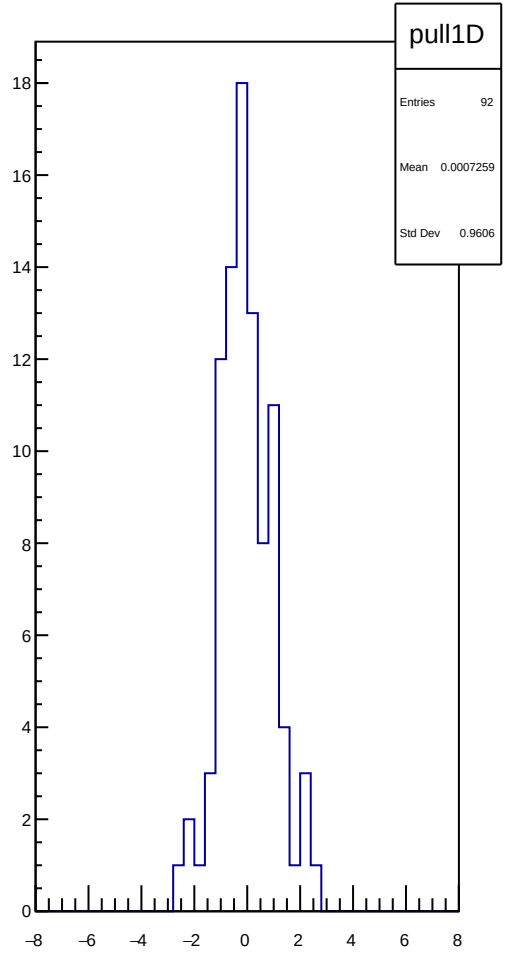

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.295e+05 / 91
p0 1.091e−11 ± 1.002e−14
70
60
50
40
30
20
10

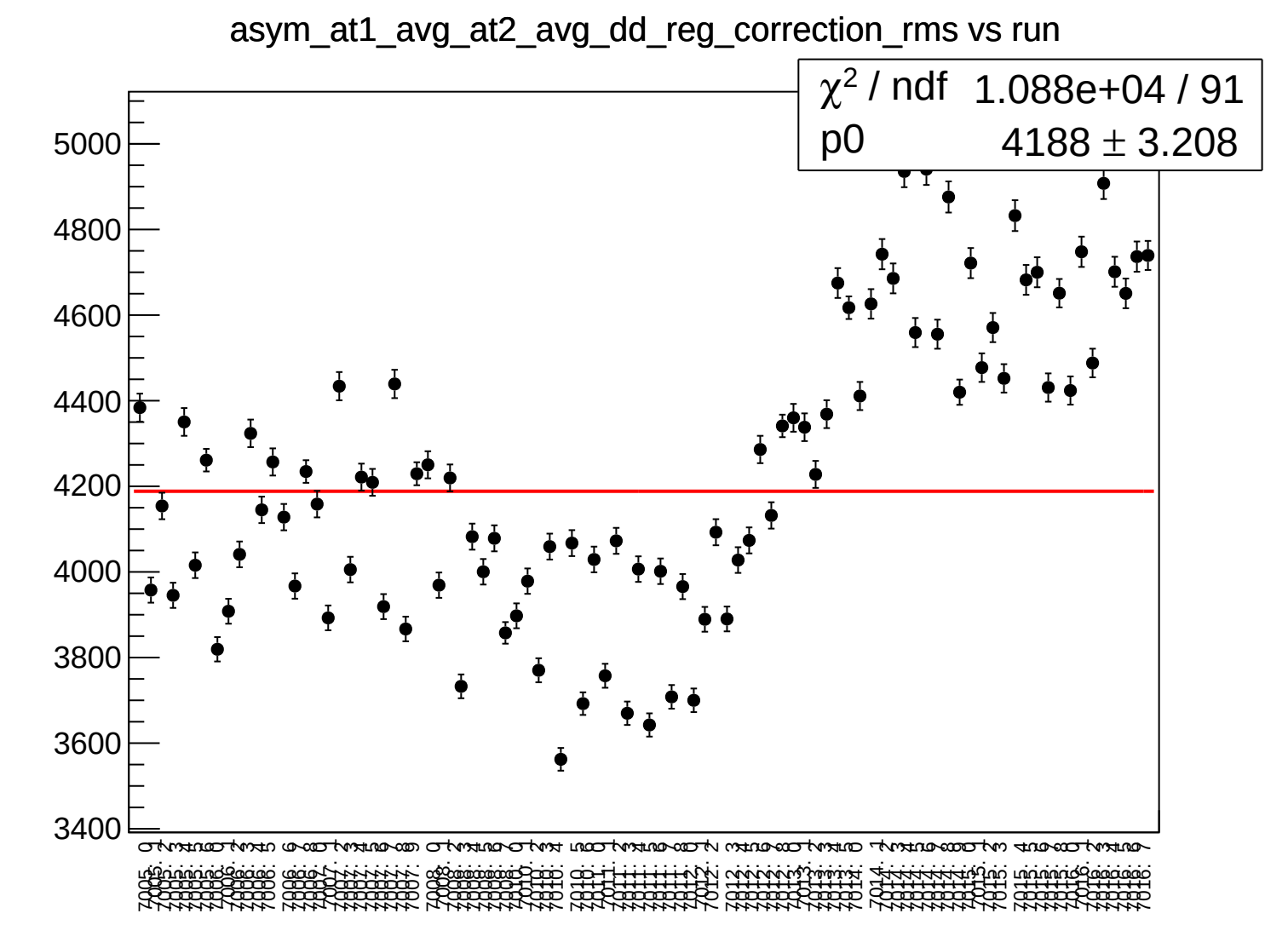

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.02 / 91
p0 3671 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 729.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

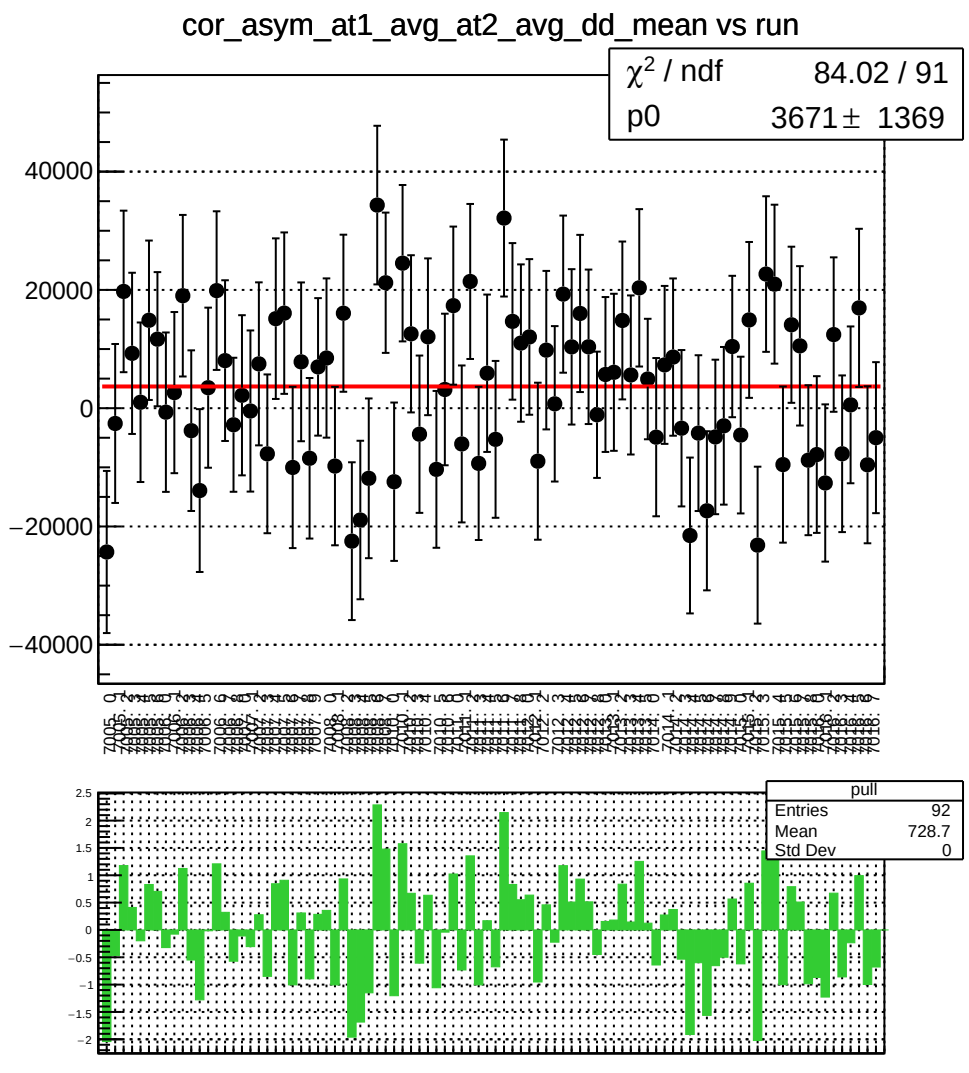

pull1D
Entries 92
Mean −0.002333
Std Dev 0.9556
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

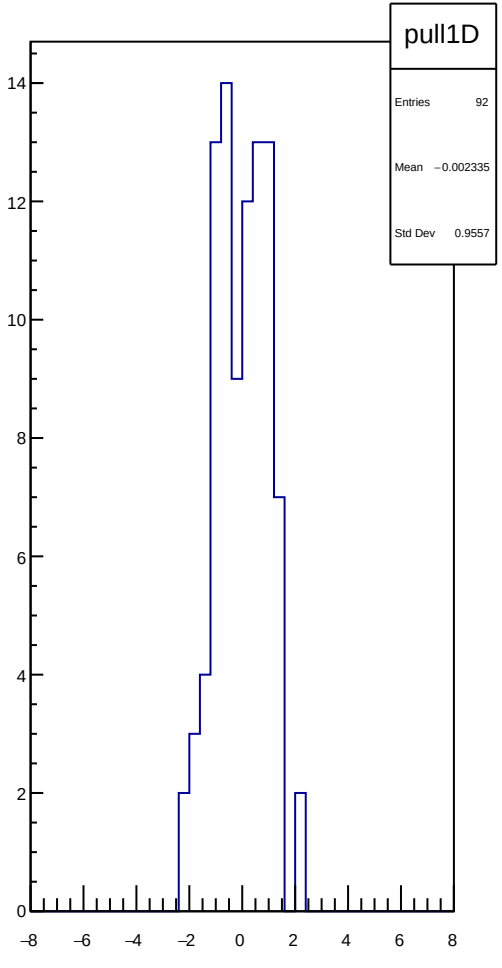

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 296.1 / 91
p0 1268 ± 0.9679
1320
1300
1280
1260
1240
1220

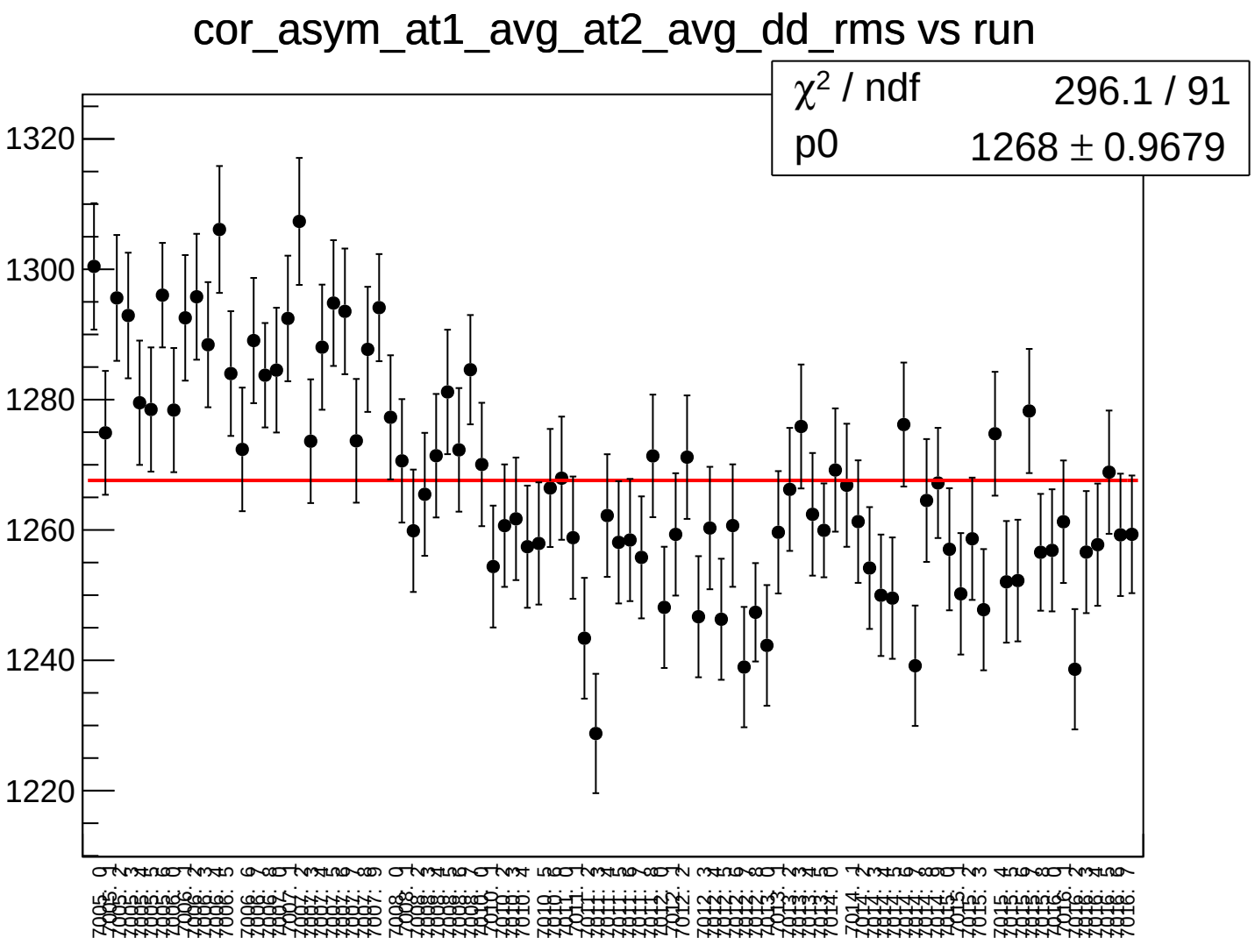

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.89 / 91
p0 1.22e+04 ± 4537
pull
Entries 92
Mean 619.3
Std Dev 0

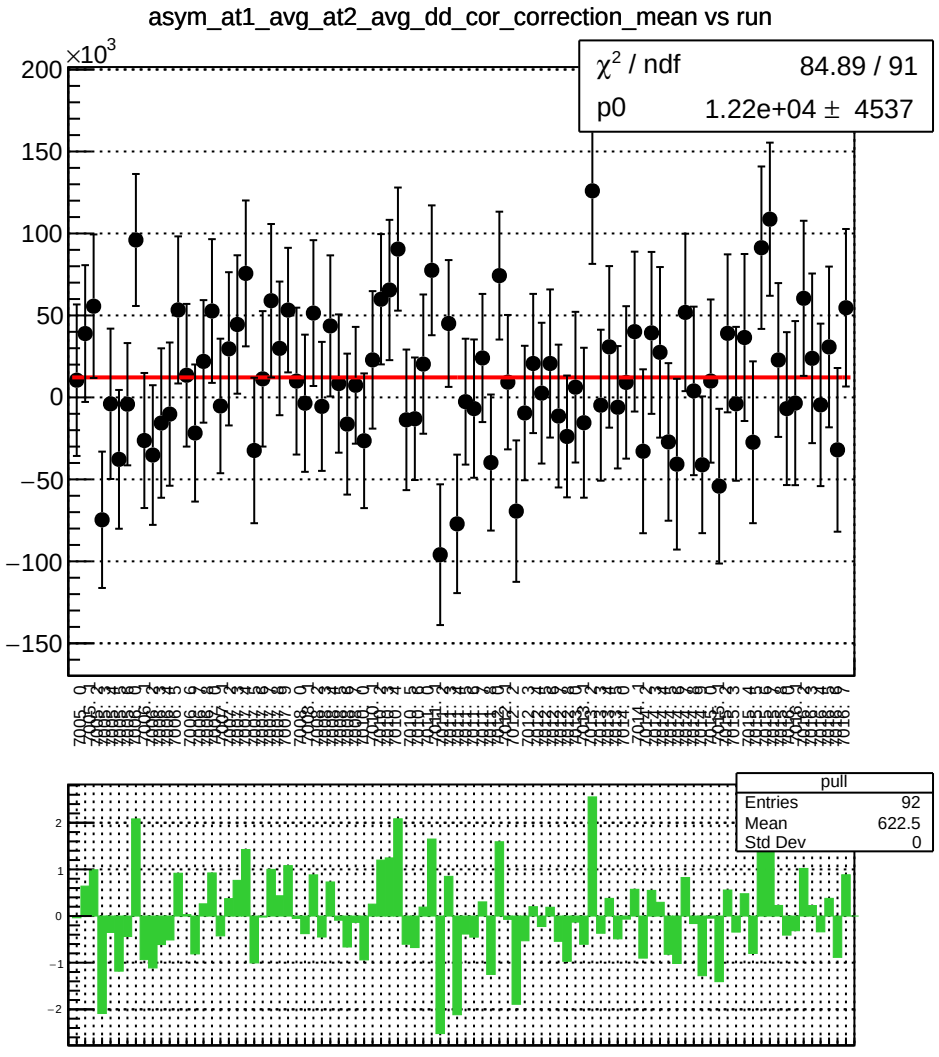

pull1D
Entries 92
Mean 0.0007259
Std Dev 0.9606

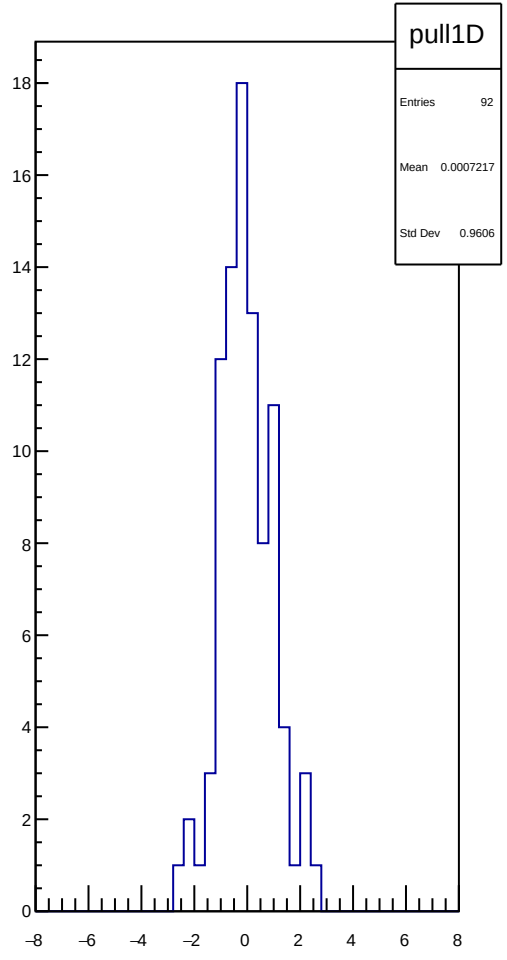

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.088e+04 / 91
p0 4188 ± 3.208
5000
4800
4600
4400
4200
4000
3800
3600
3400

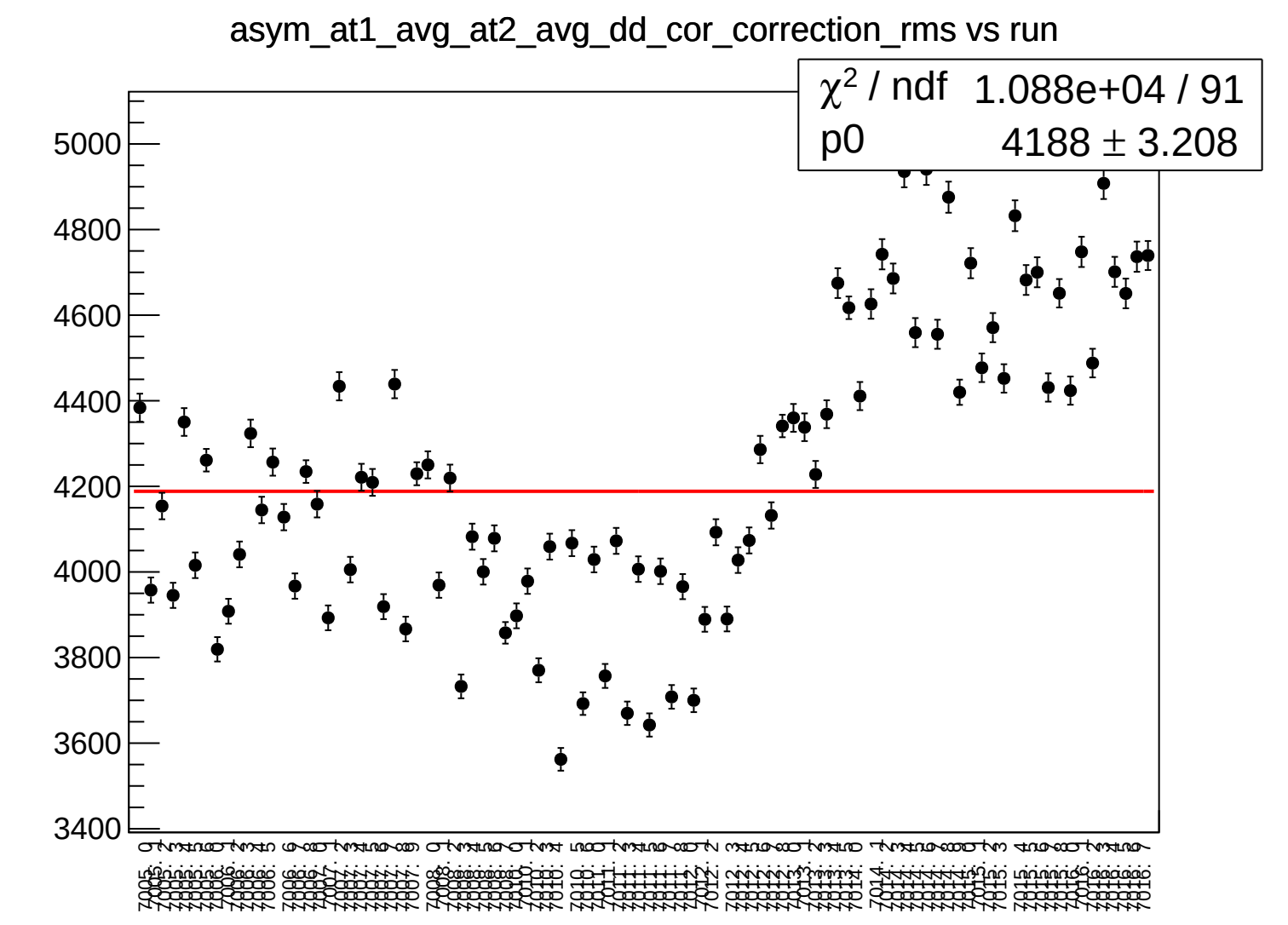

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.02 / 91
p0 3671 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 728.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

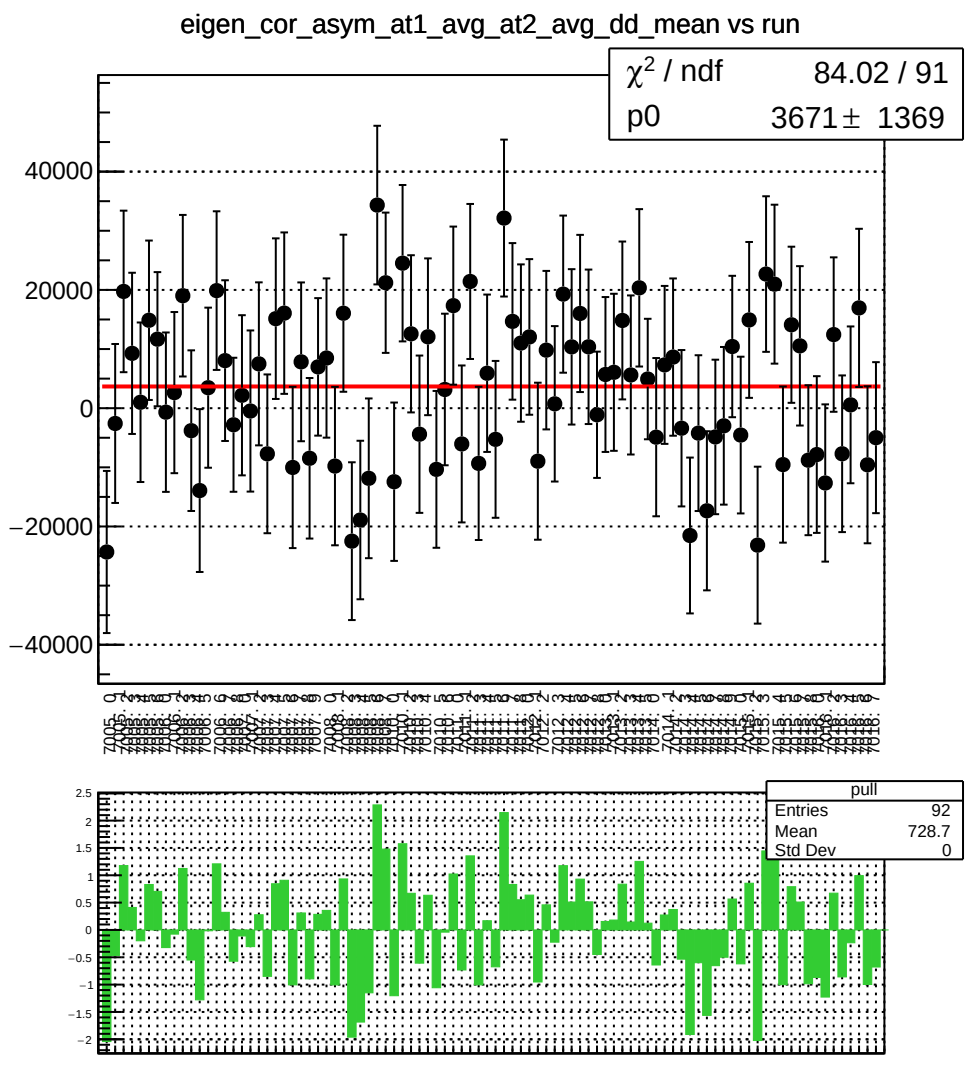

pull1D
Entries 92
Mean −0.002335
Std Dev 0.9557
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

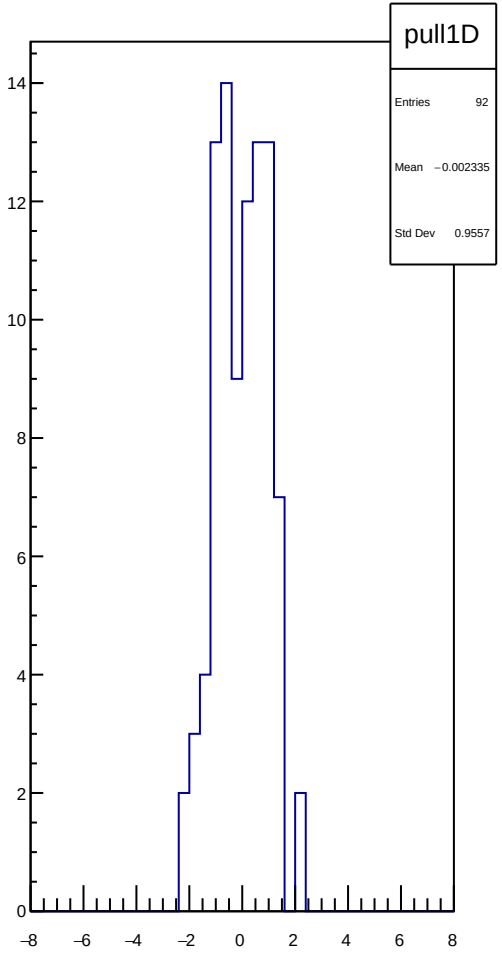

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 296.1 / 91
p0 1268 ± 0.9679
1320
1300
1280
1260
1240
1220

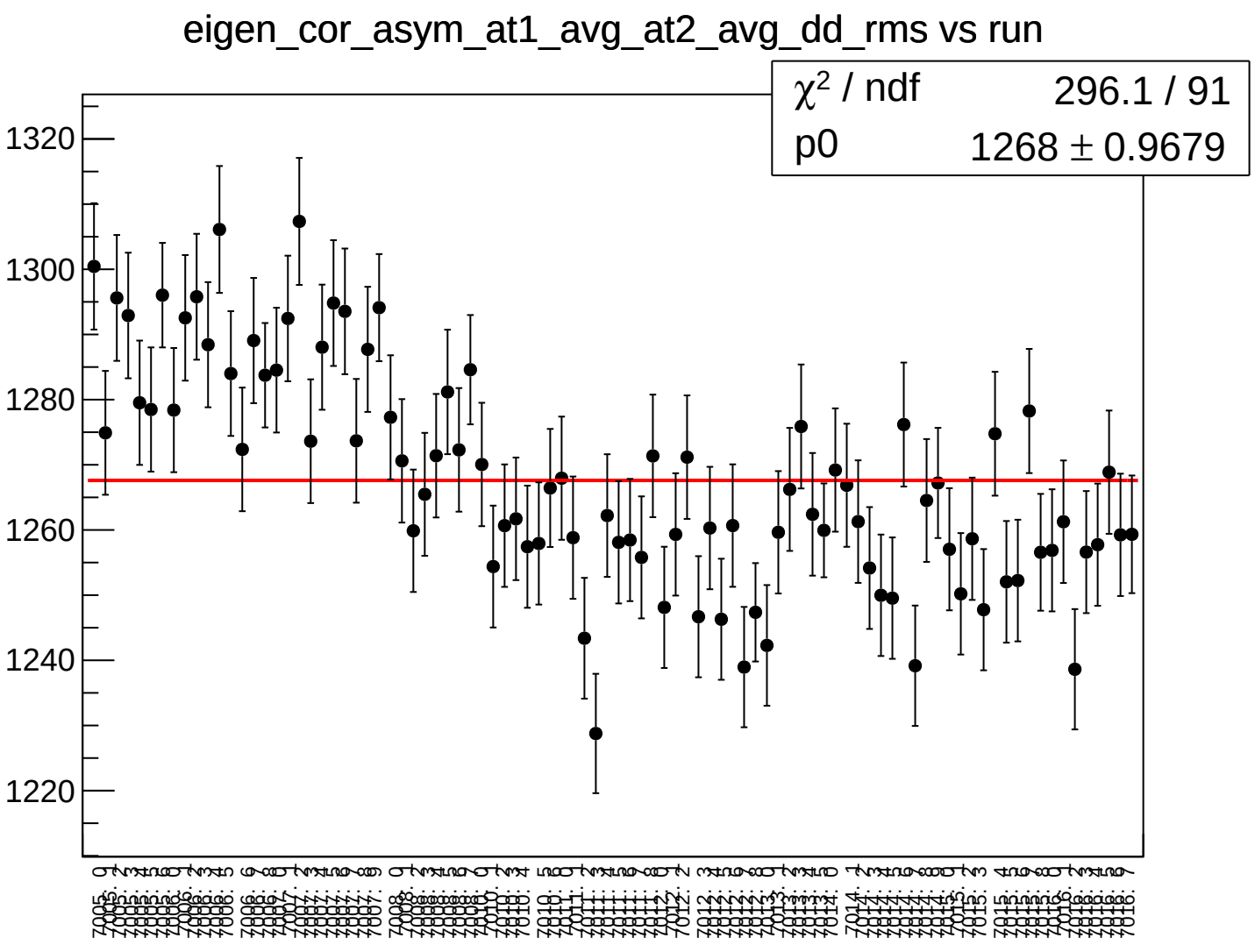

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.89 / 91
p0 1.22e+04 ± 4537
pull
Entries 92
Mean 622.5
Std Dev 0

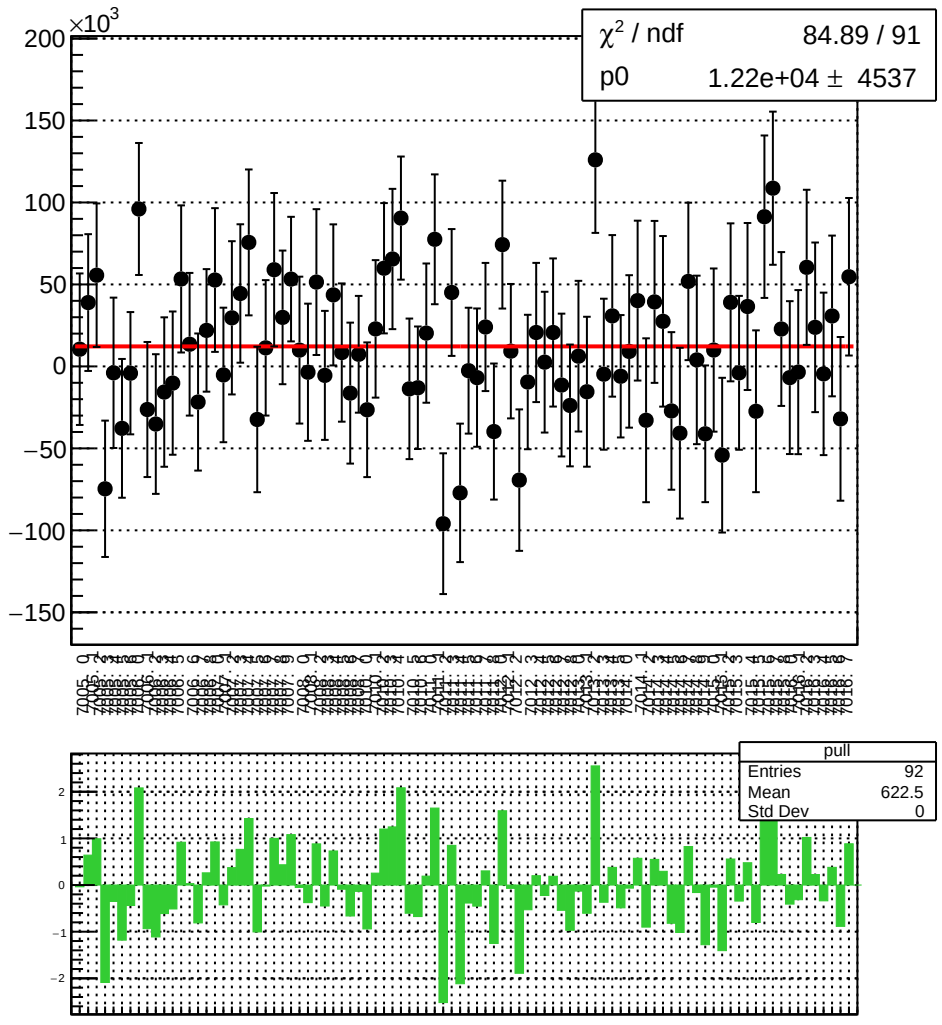

pull1D
Entries 92
Mean 0.0007217
Std Dev 0.9606

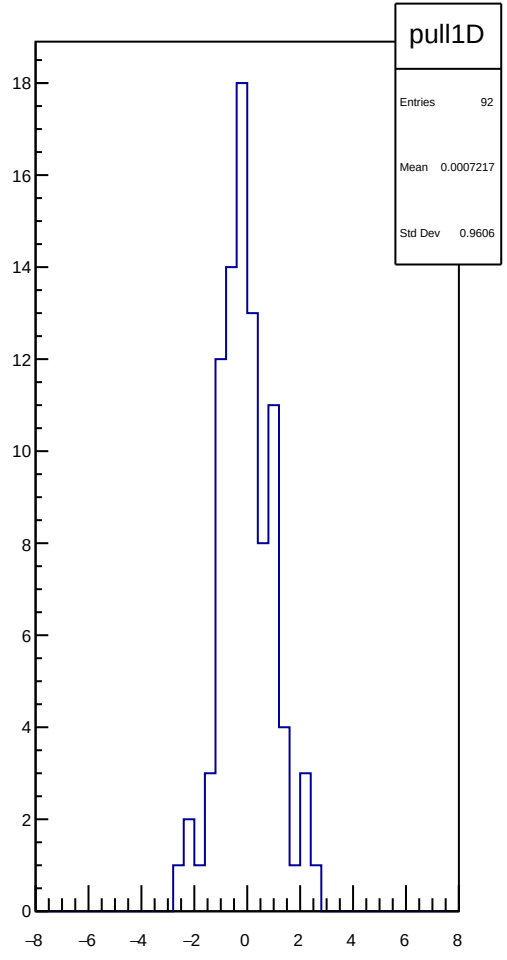

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.088e+04 / 91
p0 4188 ± 3.208
5000
4800
4600
4400
4200
4000
3800
3600
3400

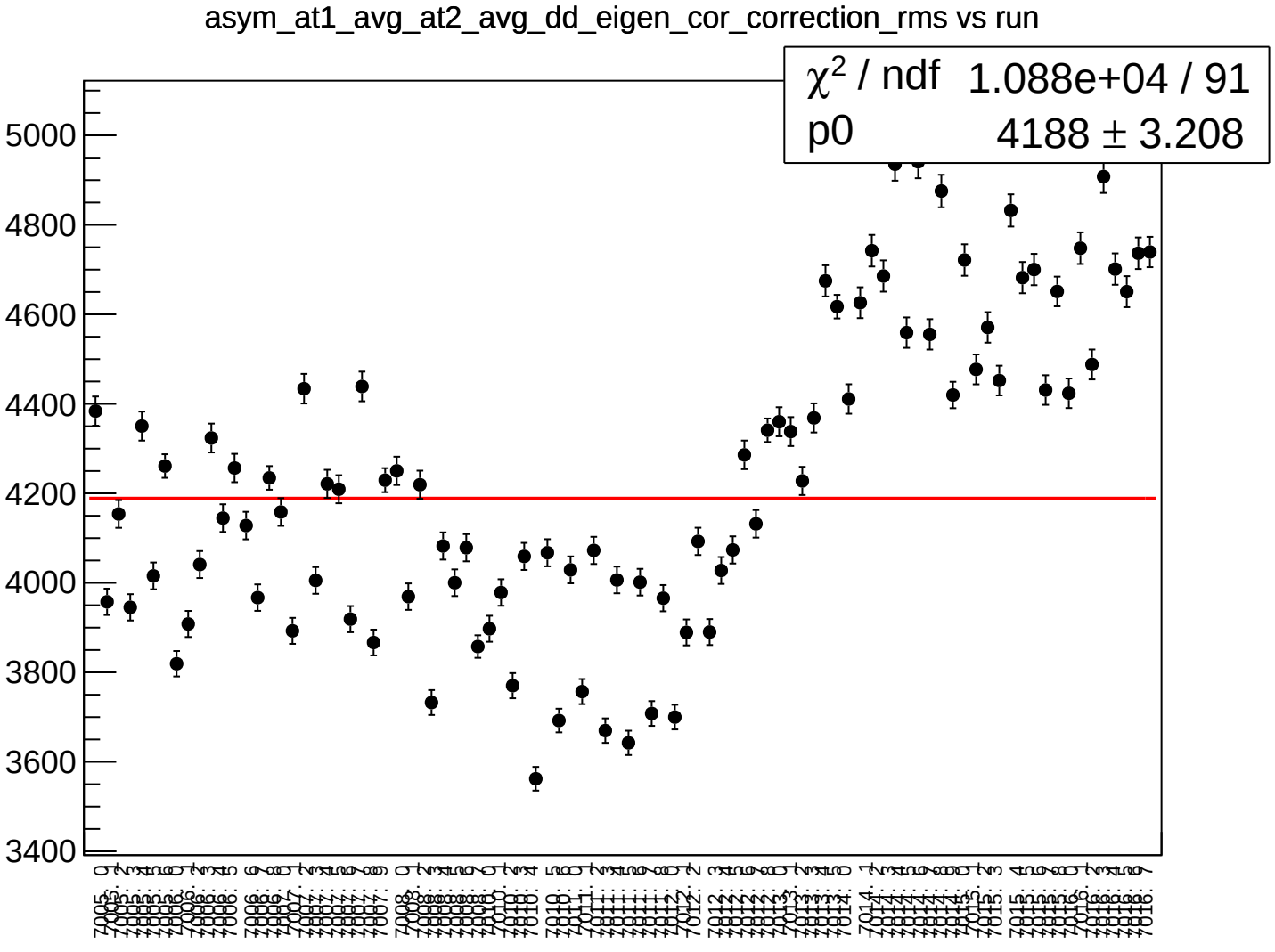

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 84.02 / 91
p0 3671 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 728.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

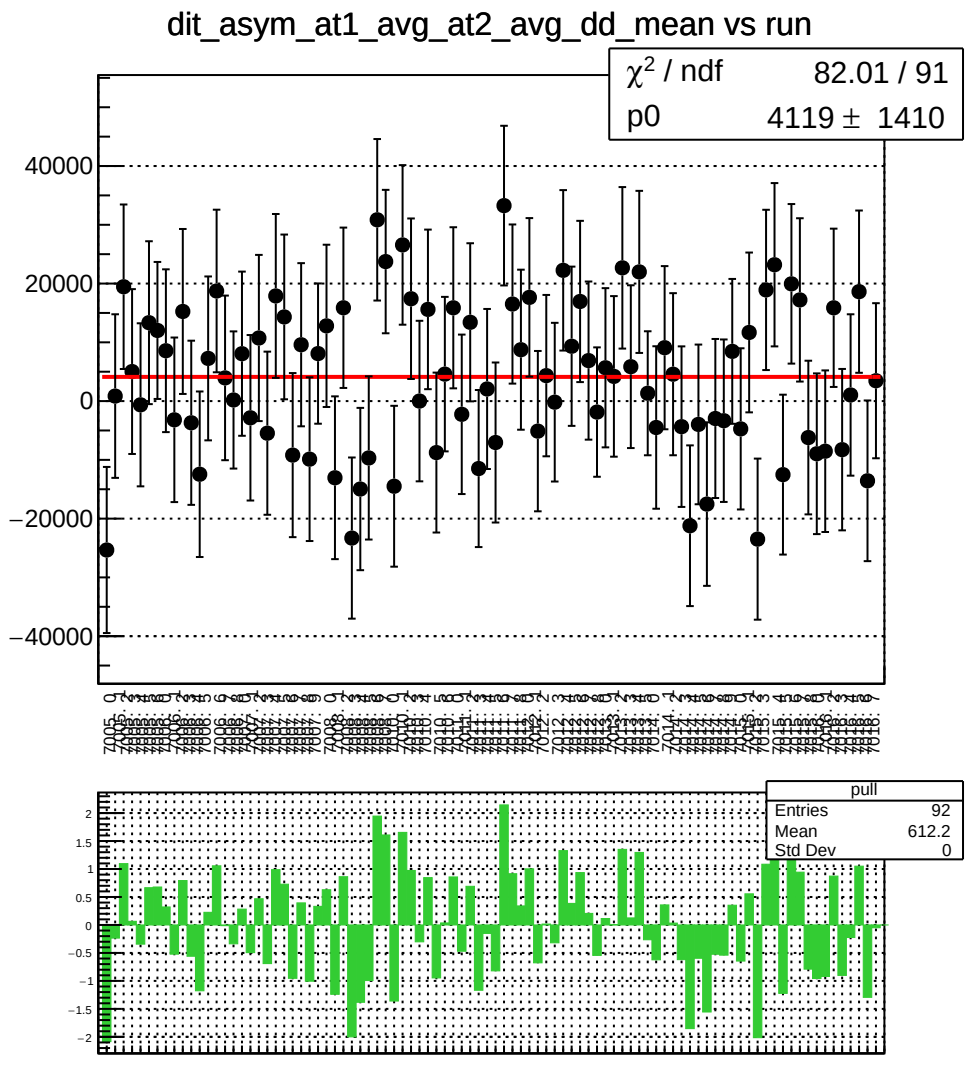

pull1D
Entries 92
Mean −0.002335
Std Dev 0.9557
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

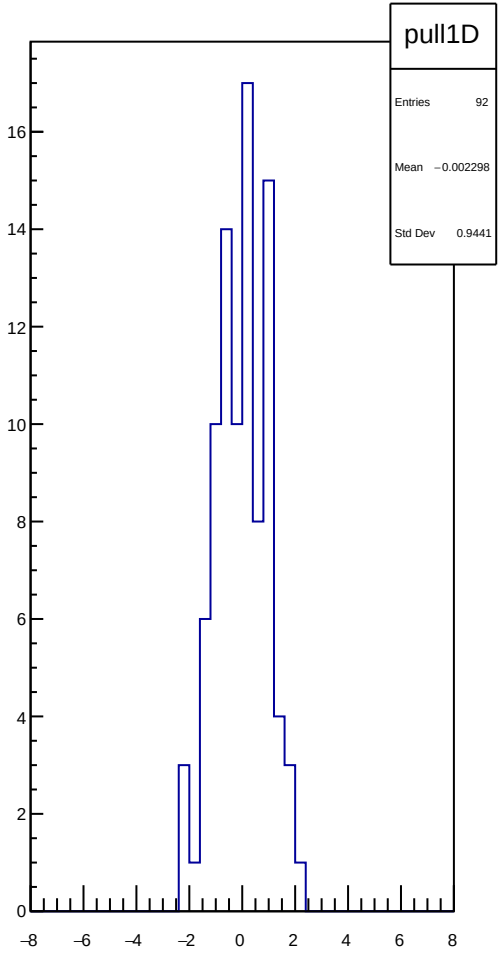

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 296.1 / 91
p0 1268 ± 0.9679
1320
1300
1280
1260
1240
1220

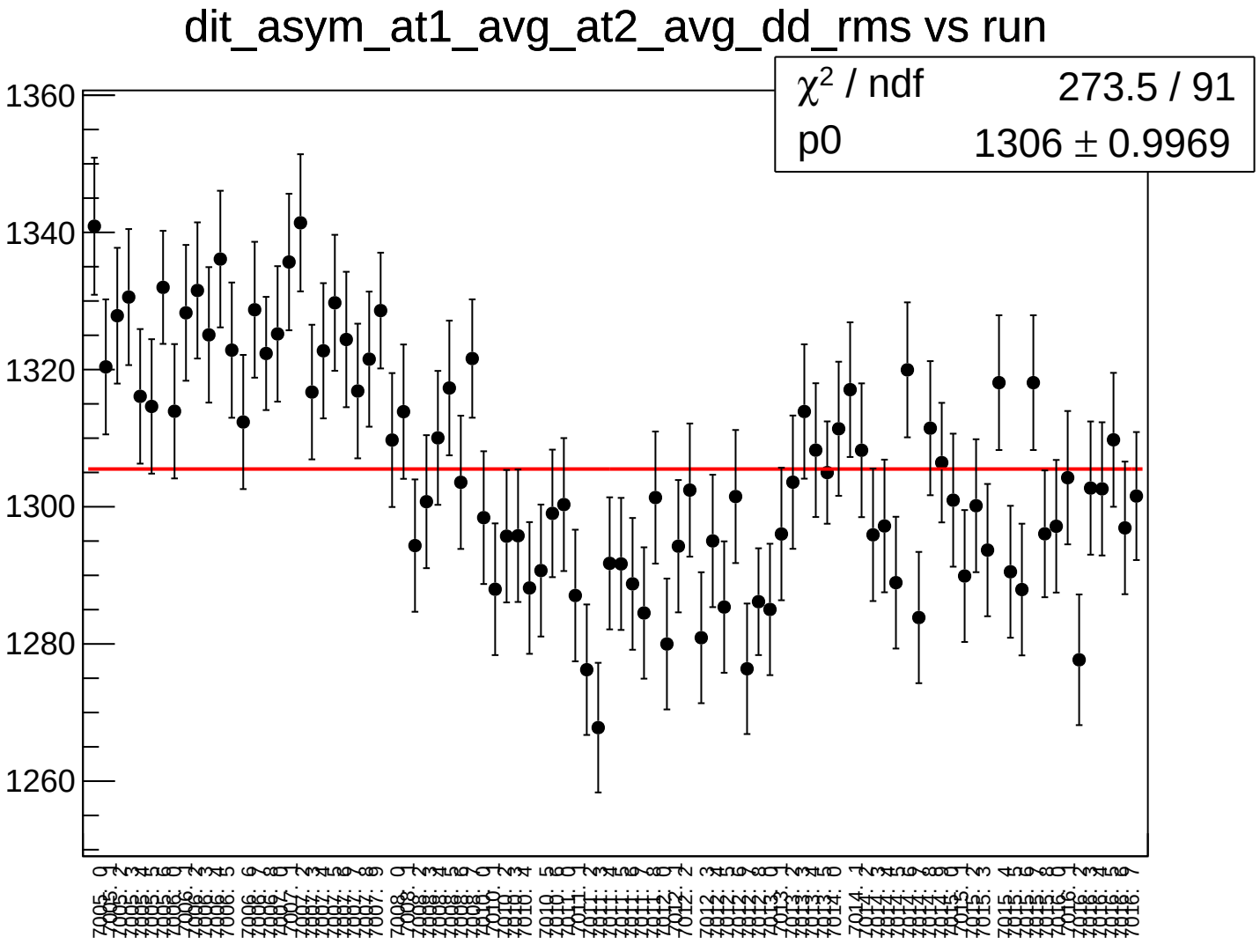

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.89 / 91
p0 1.22e+04 ± 4537
pull
Entries 92
Mean 622.5
Std Dev 0

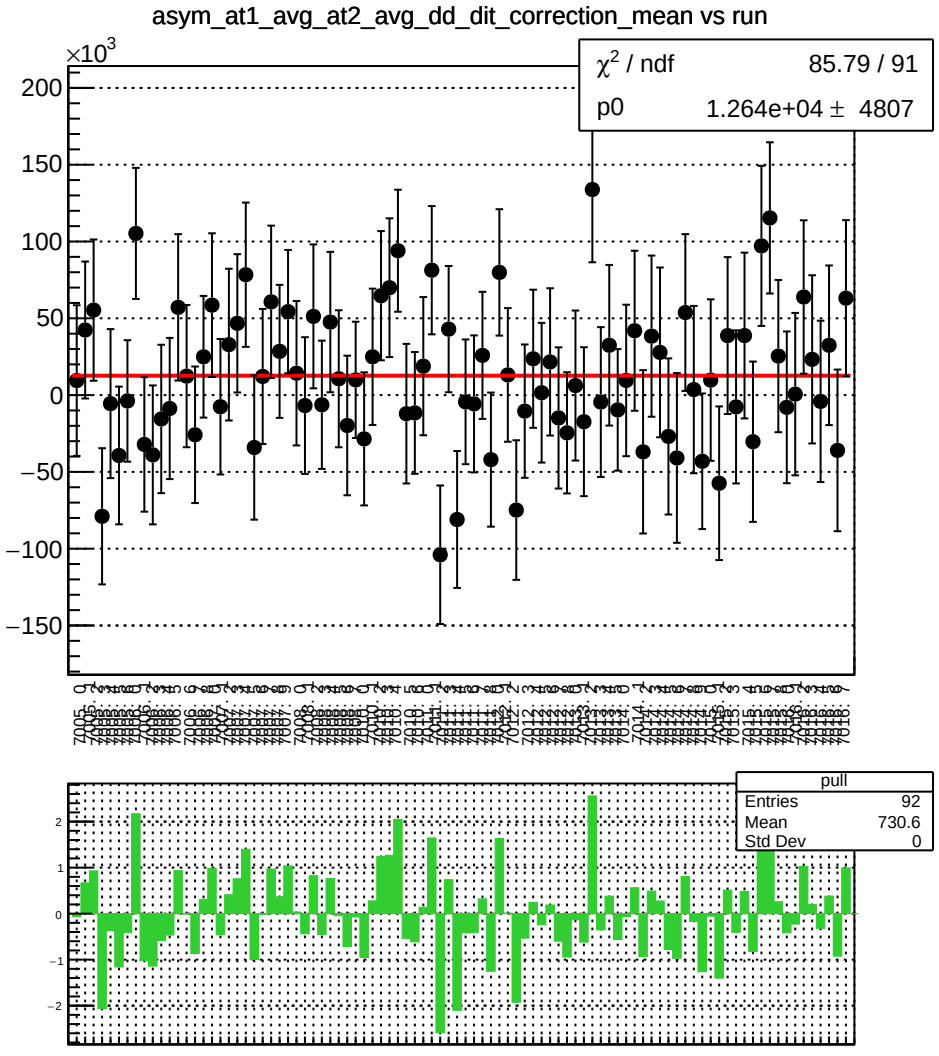

pull1D
Entries 92
Mean 0.0007217
Std Dev 0.9606

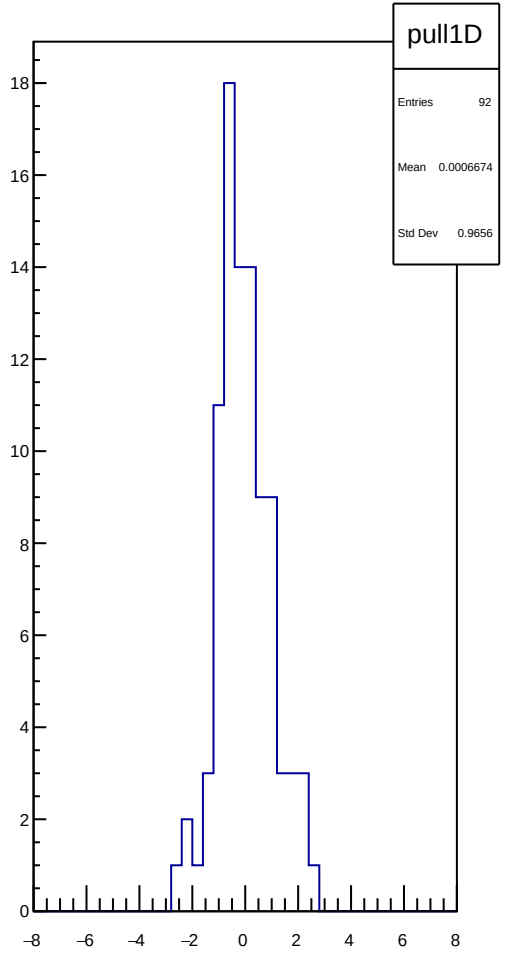

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.088e+04 / 91
p0 4188 ± 3.208
5000
4800
4600
4400
4200
4000
3800
3600
3400

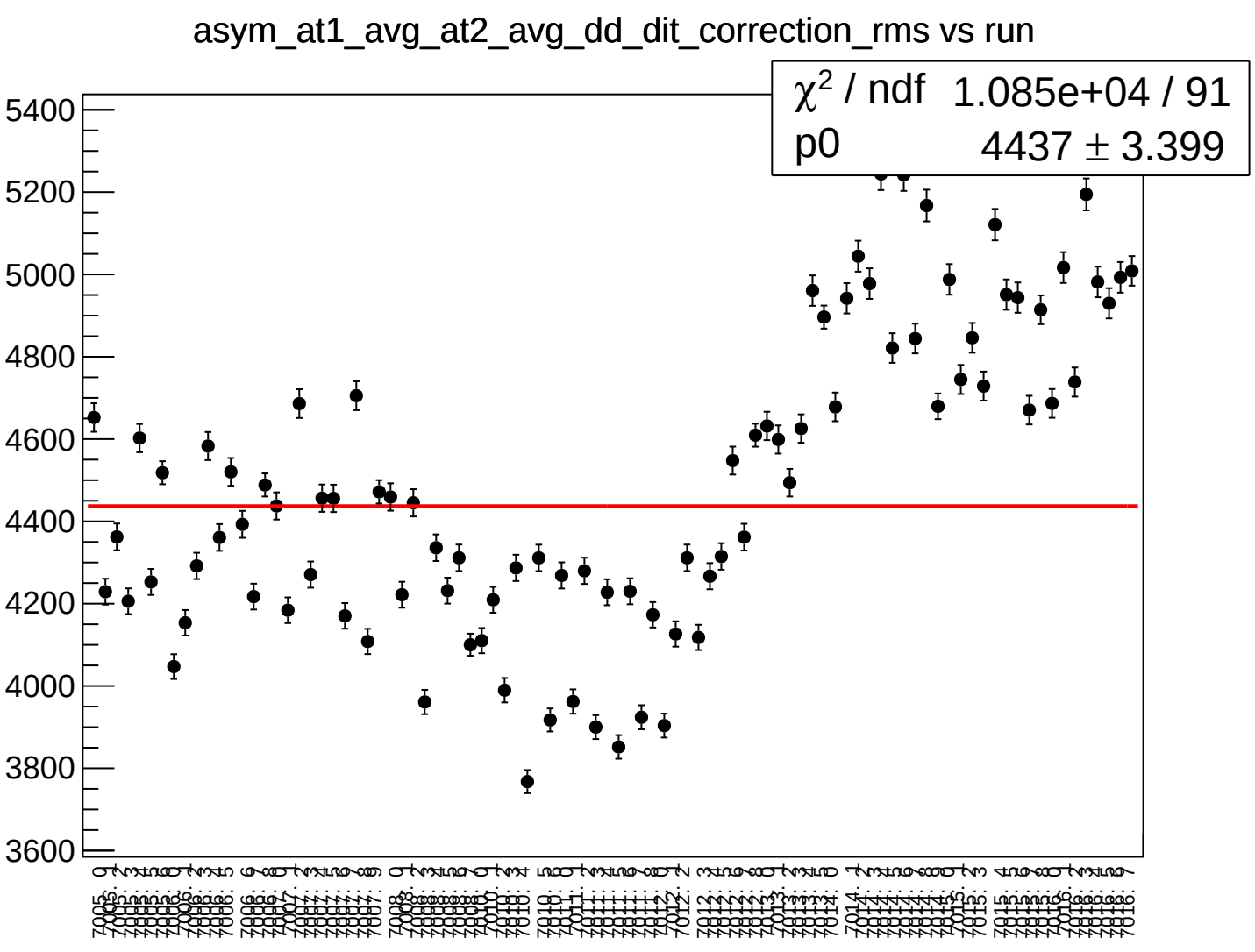

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 82.01 / 91
p0 4119 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 612.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

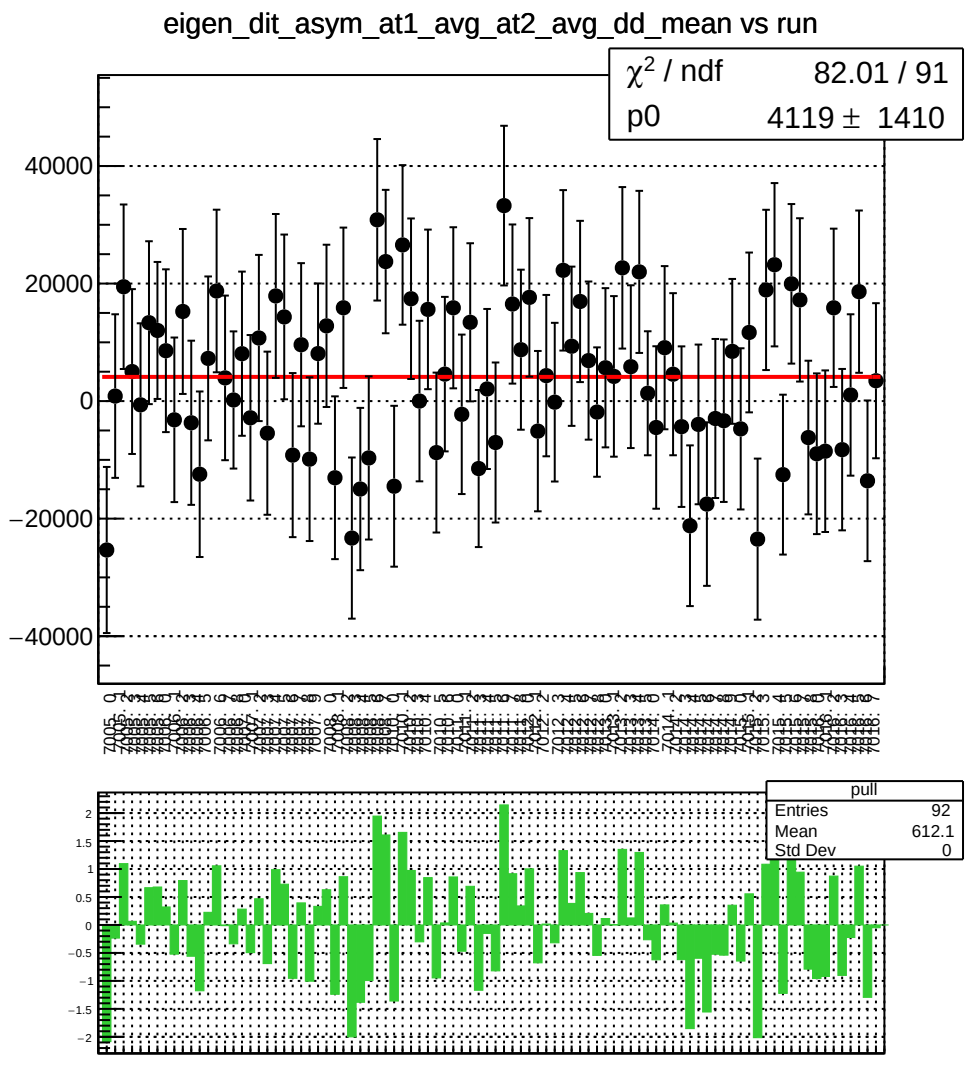

pull1D
Entries 92
Mean −0.002298
Std Dev 0.9441
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

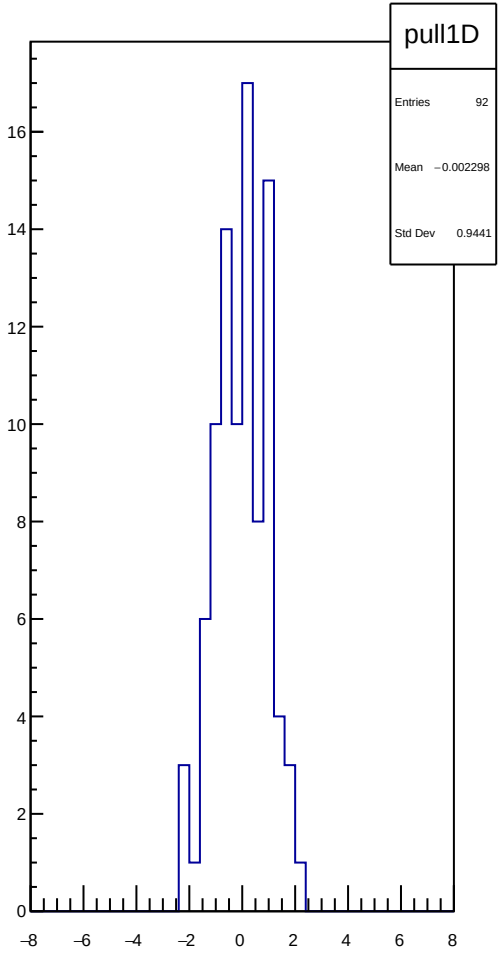

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 273.5 / 91
p0 1306 ± 0.9969
1360
1340
1320
1300
1280
1260

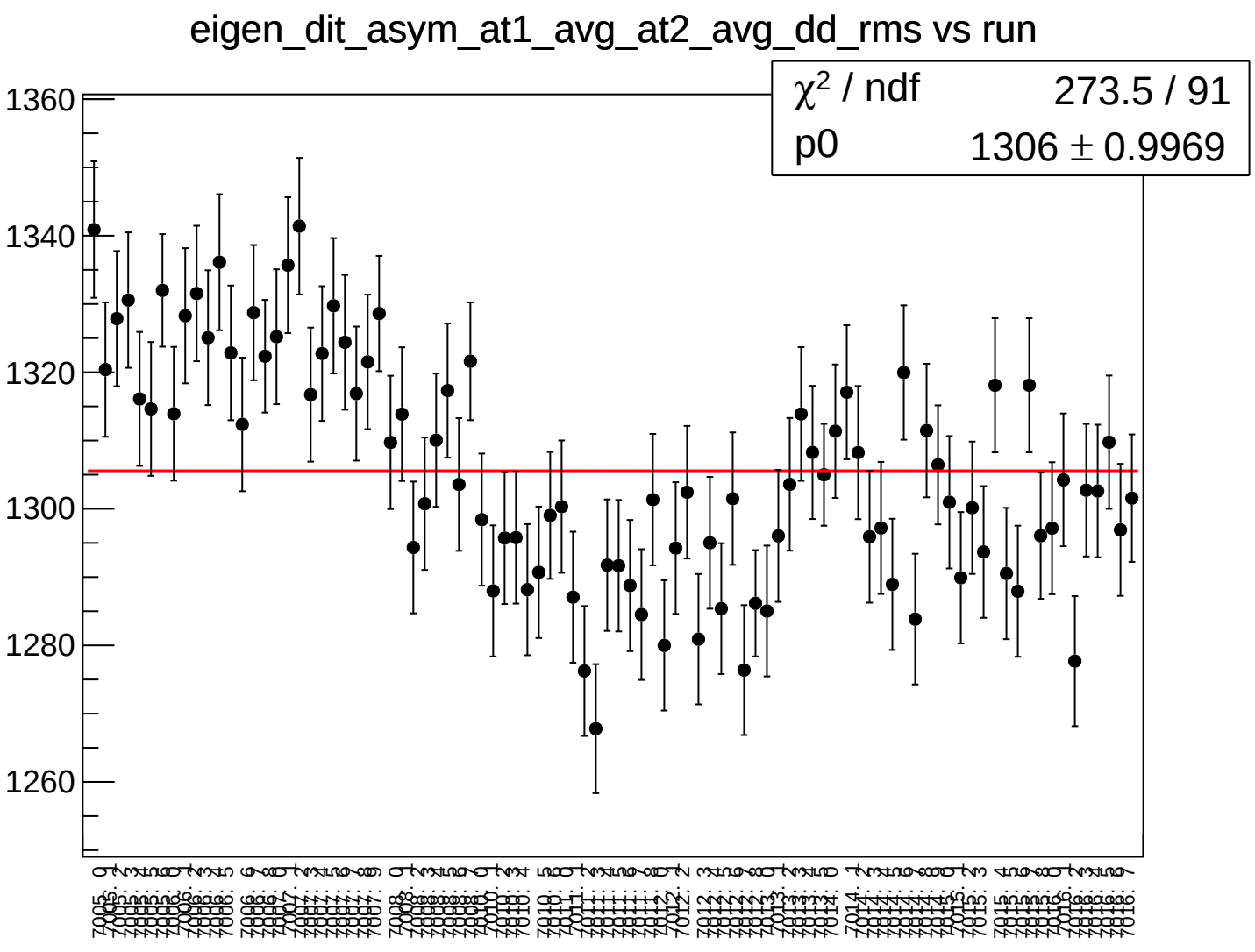

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.79 / 91
p0 1.264e+04 ± 4807
pull
Entries 92
Mean 730.6
Std Dev 0

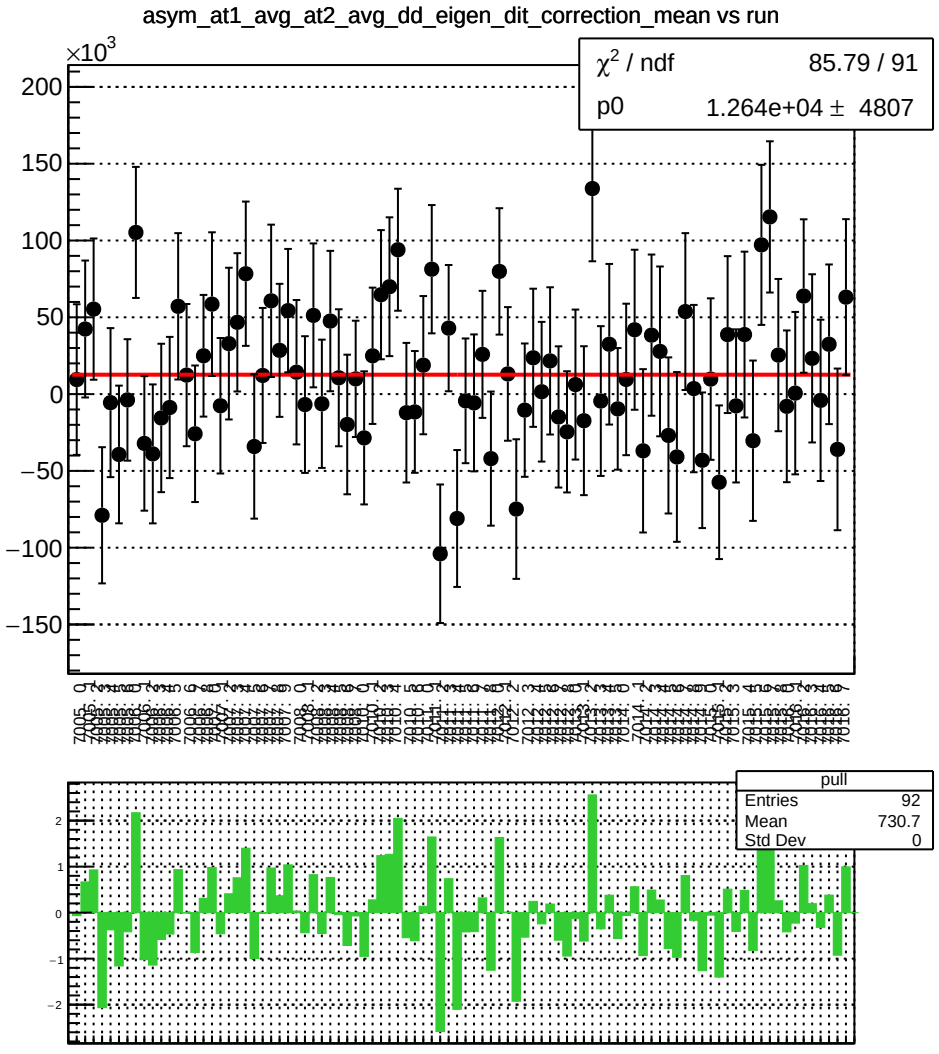

pull1D
Entries 92
Mean 0.0006674
Std Dev 0.9656

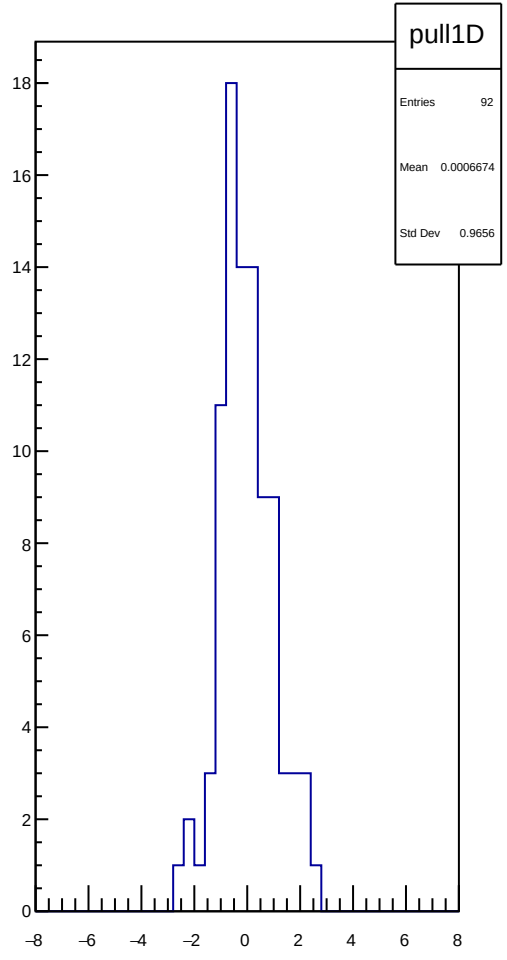

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 91
p0 4437 ± 3.399
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

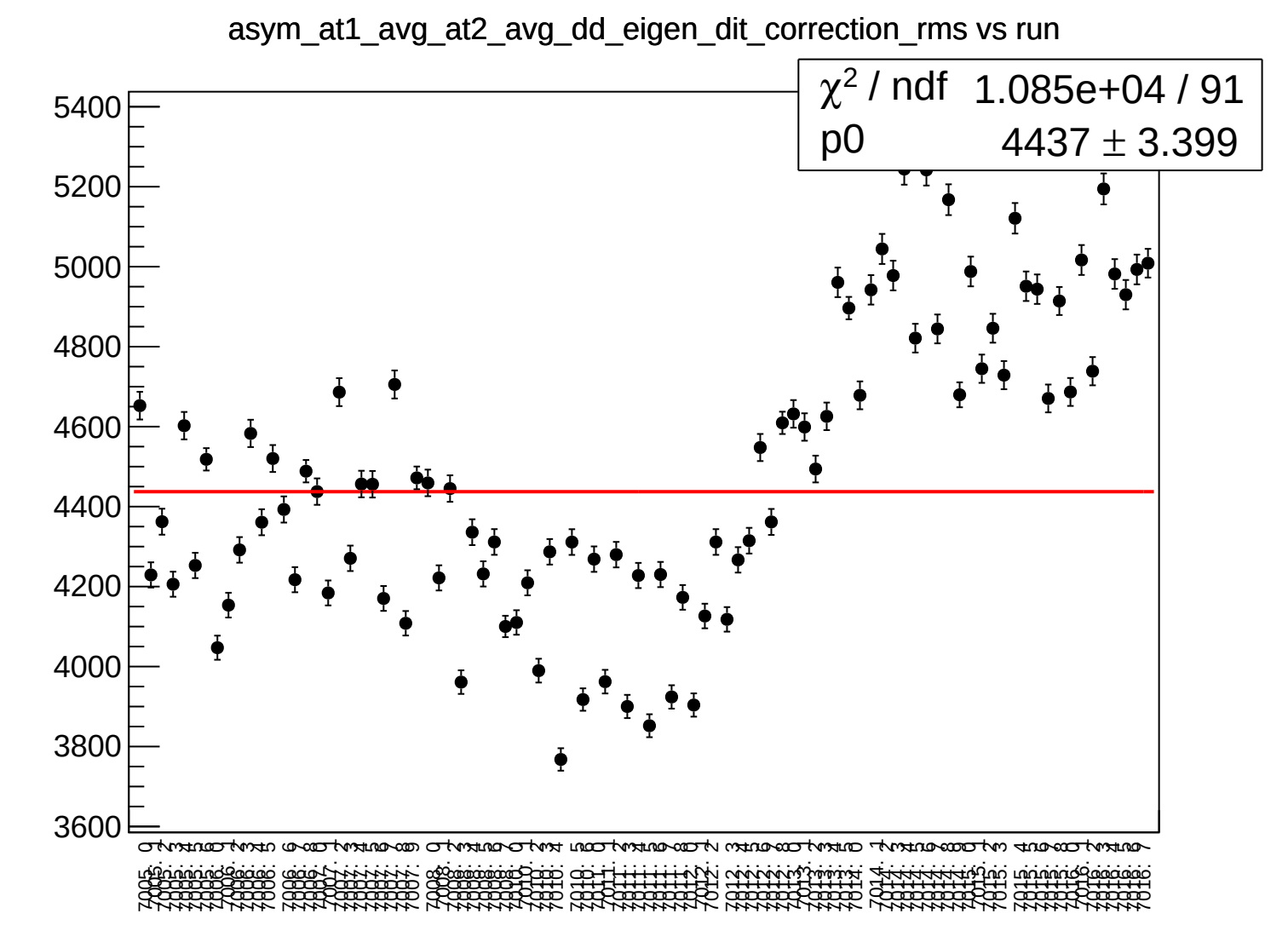

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 82.01 / 91
p0 4119 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 612.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

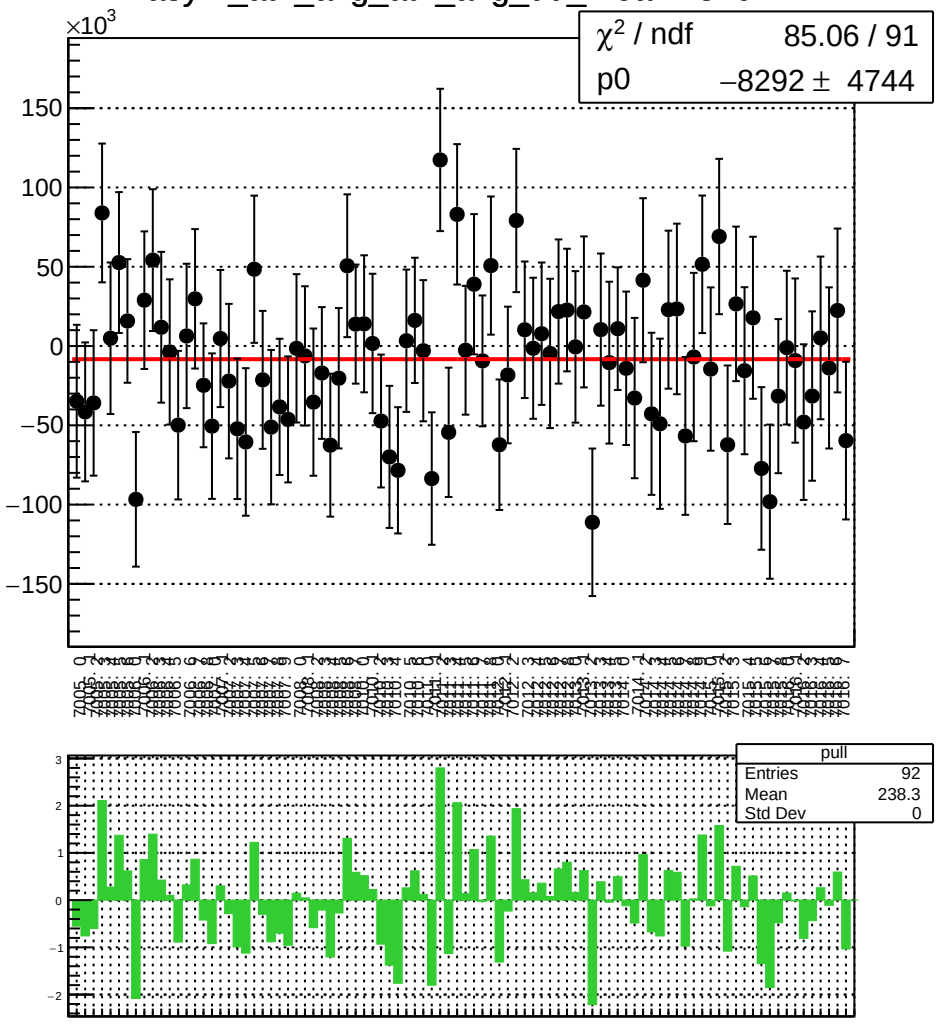

pull1D
Entries 92
Mean −0.002298
Std Dev 0.9441
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

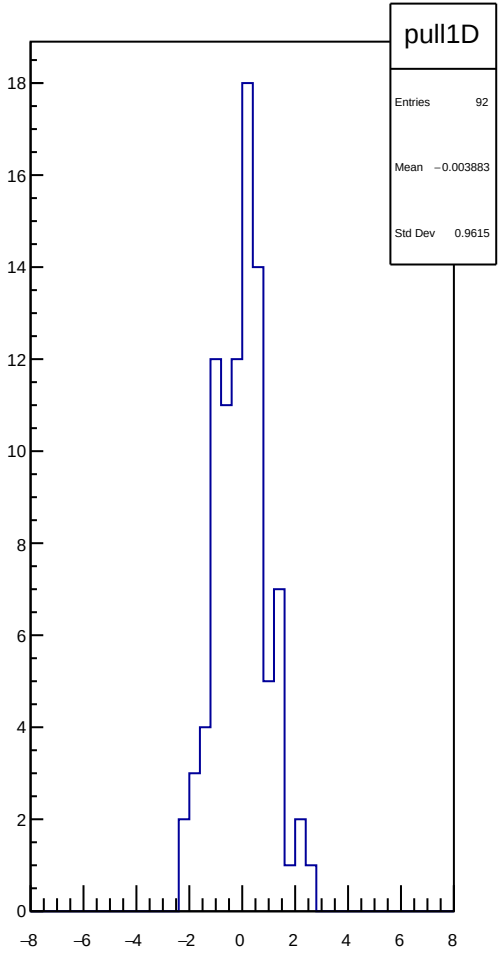

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 273.5 / 91
p0 1306 ± 0.9969
1360
1340
1320
1300
1280
1260

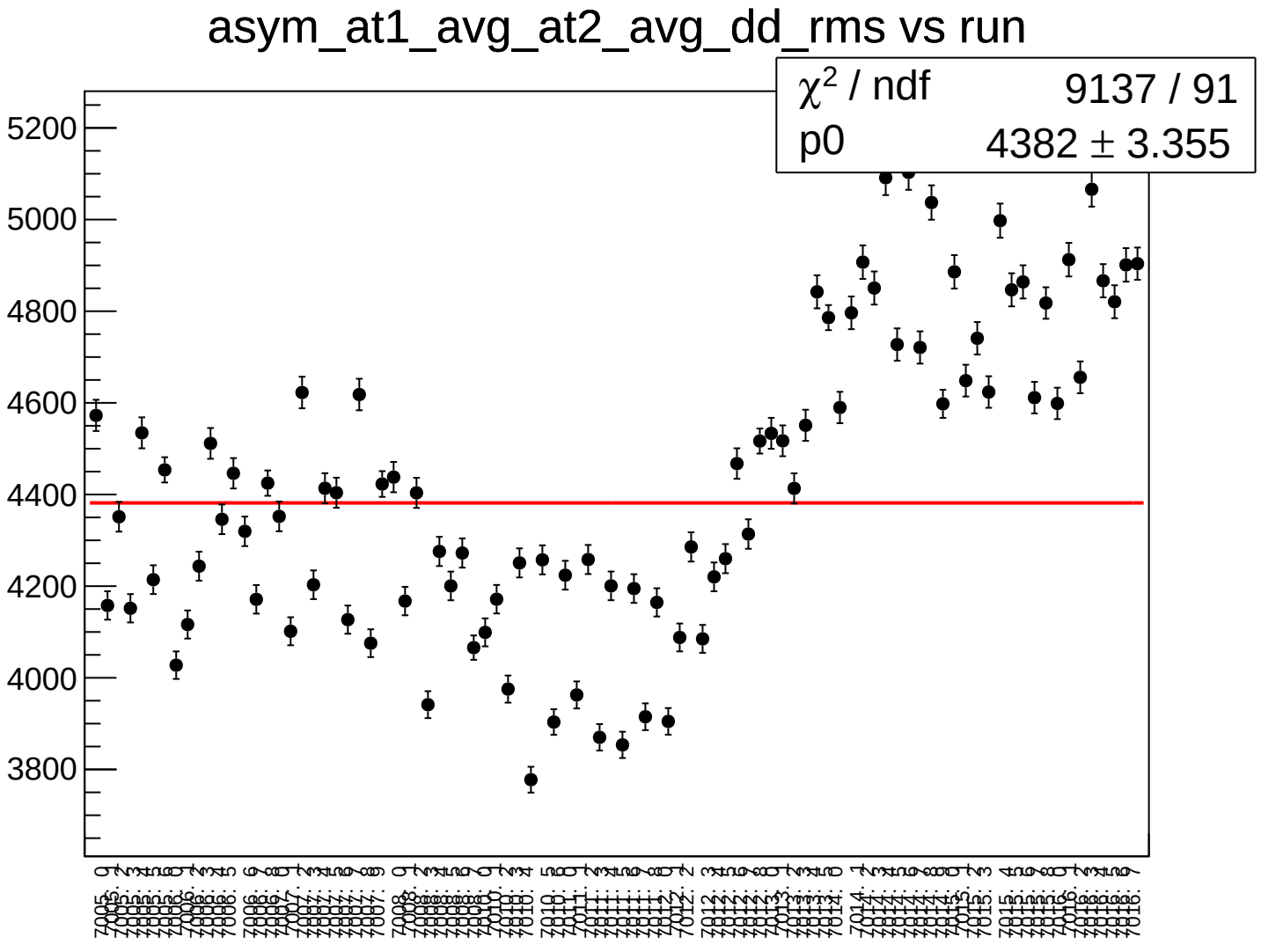

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.79 / 91
p0 1.264e+04 ± 4807
pull
Entries 92
Mean 730.7
Std Dev 0

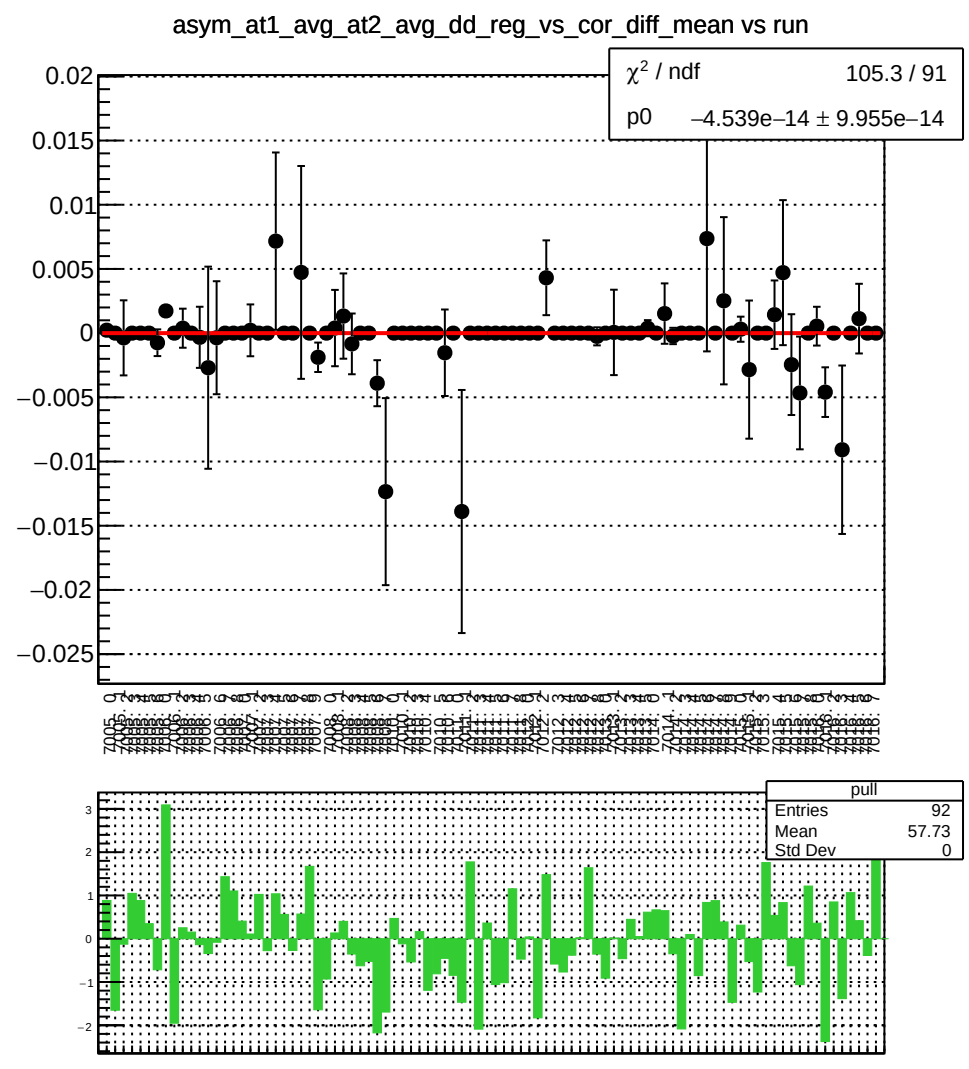

pull1D
Entries 92
Mean 0.0006674
Std Dev 0.9656

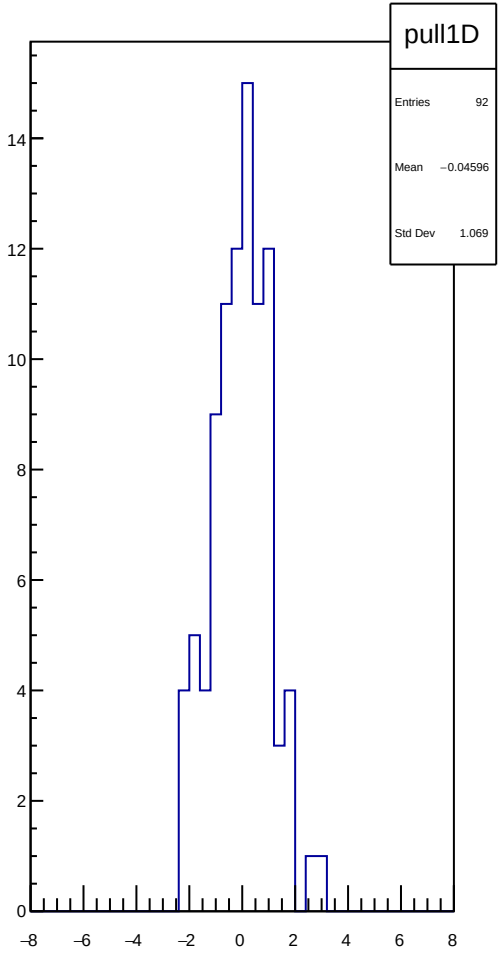

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 91
p0 4437 ± 3.399
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

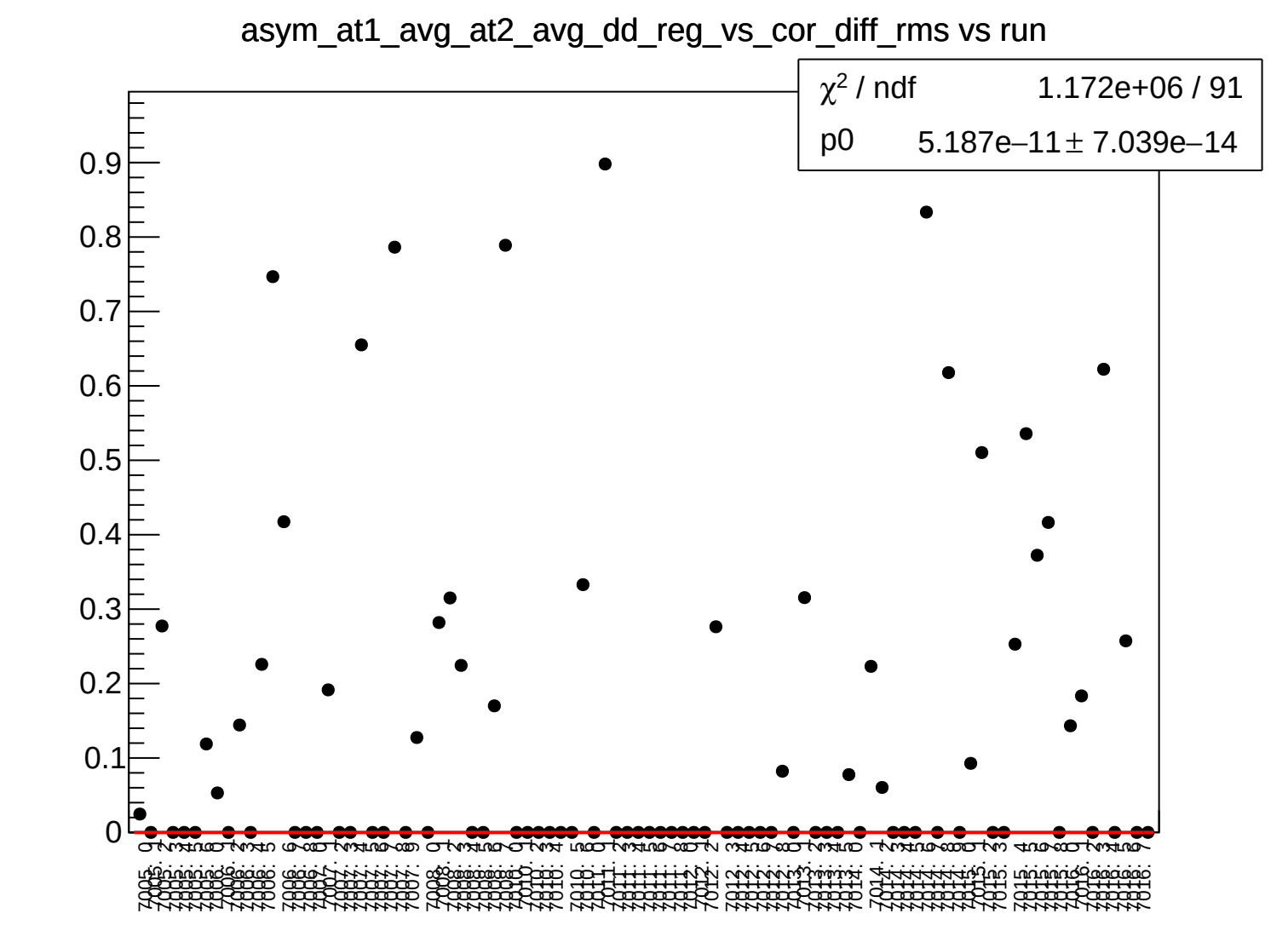

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 85.06 / 91
p0 −8292 ± 4744
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 238.3
Std Dev 0
3
2
1
0
−1
−2

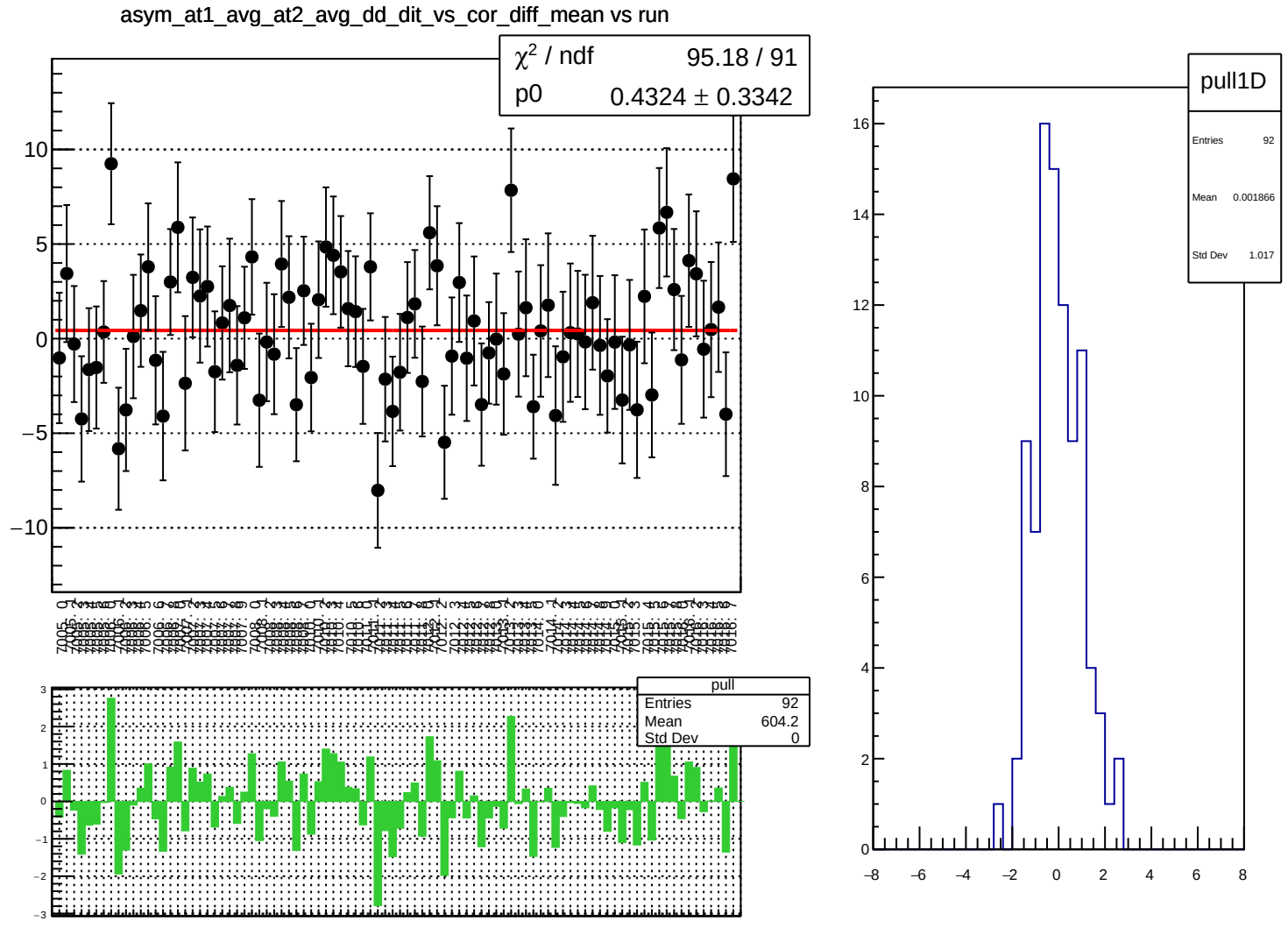

pull1D
Entries 92
Mean −0.003883
Std Dev 0.9615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

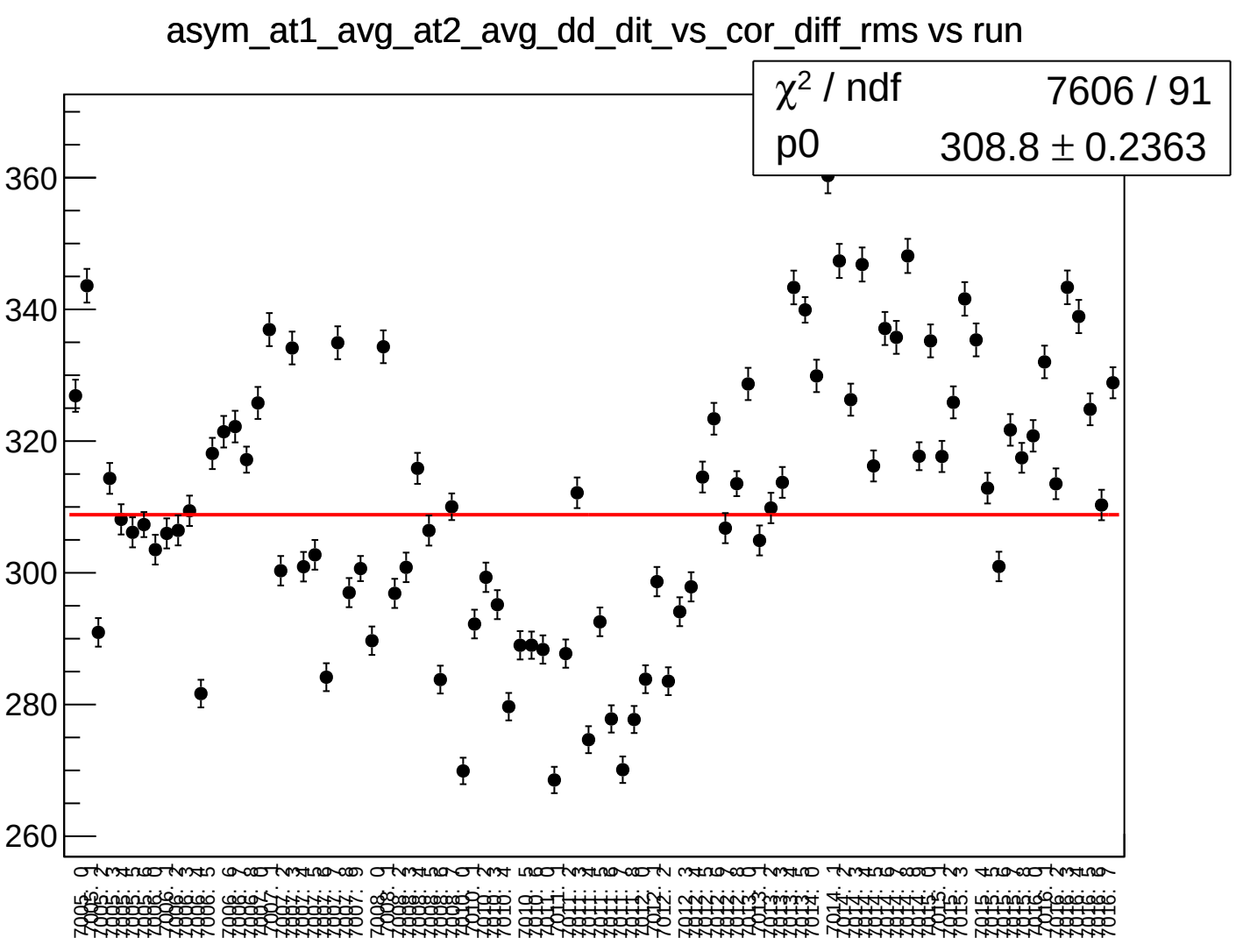

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 9137 / 91
p0 4382 ± 3.355
5200
5000
4800
4600
4400
4200
4000
3800

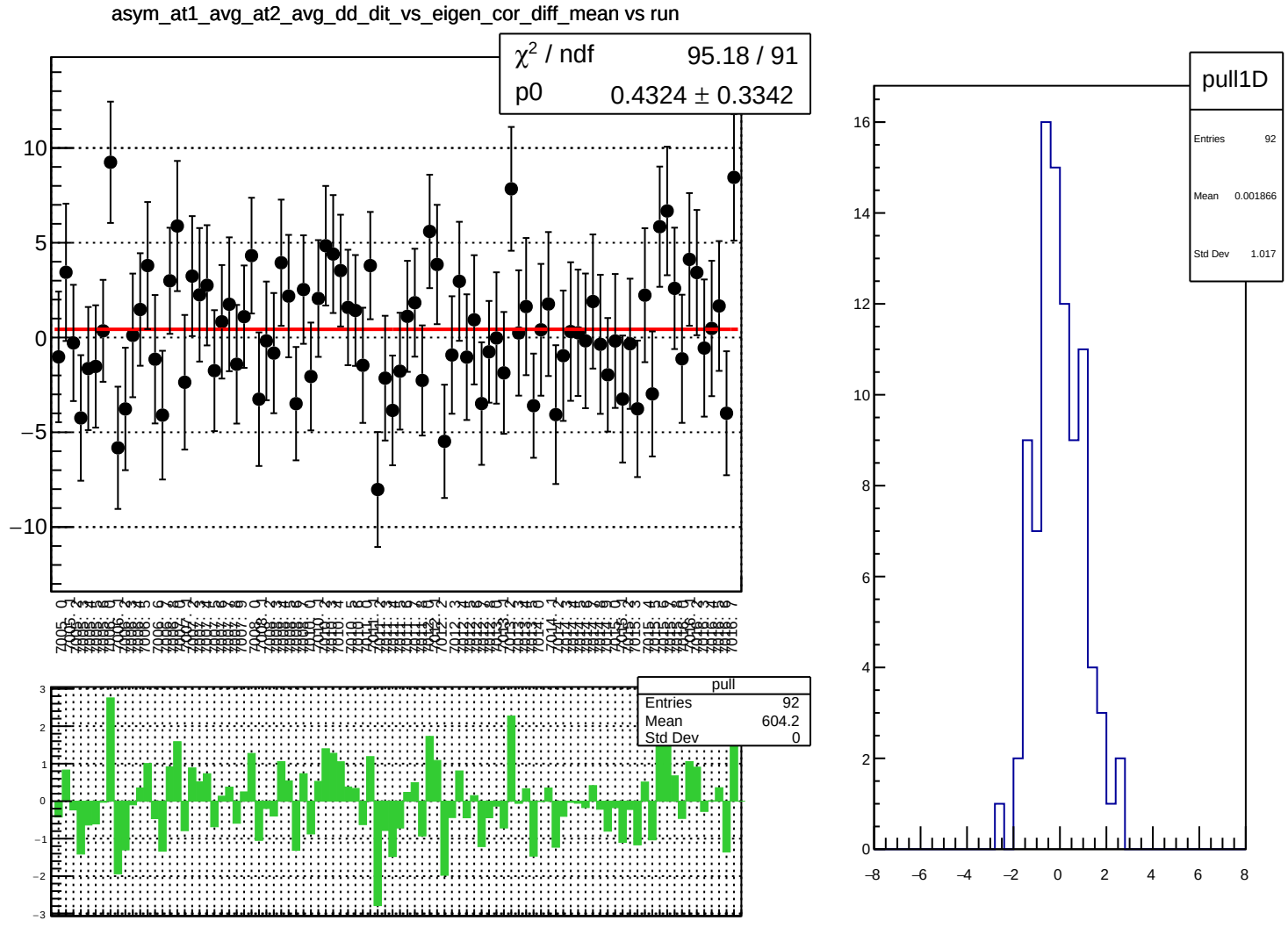

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 91
p0 −4.539e−14 ± 9.955e−14
pull
Entries 92
Mean 57.73
Std Dev 0

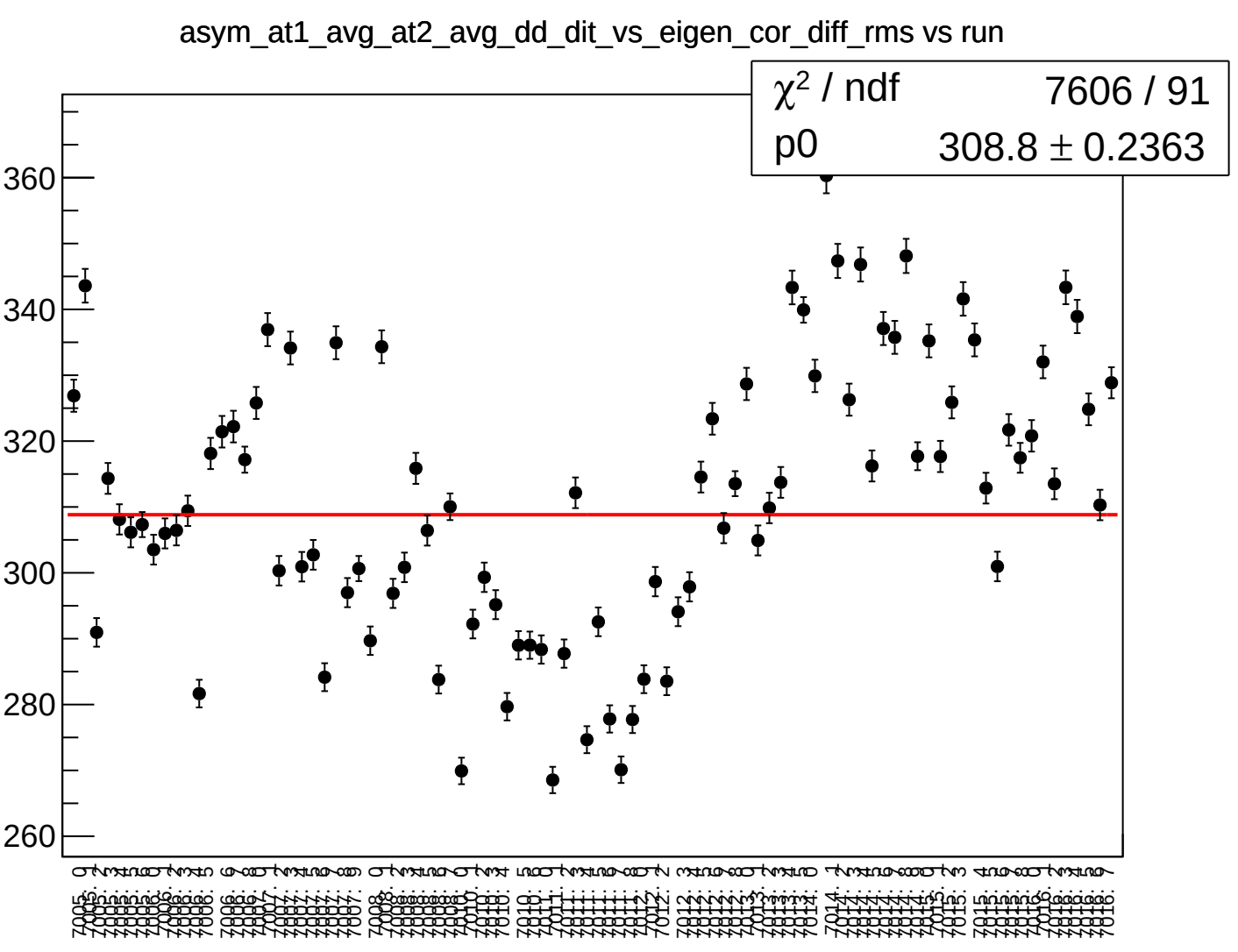

pull1D
Entries 92
Mean −0.04596
Std Dev 1.069

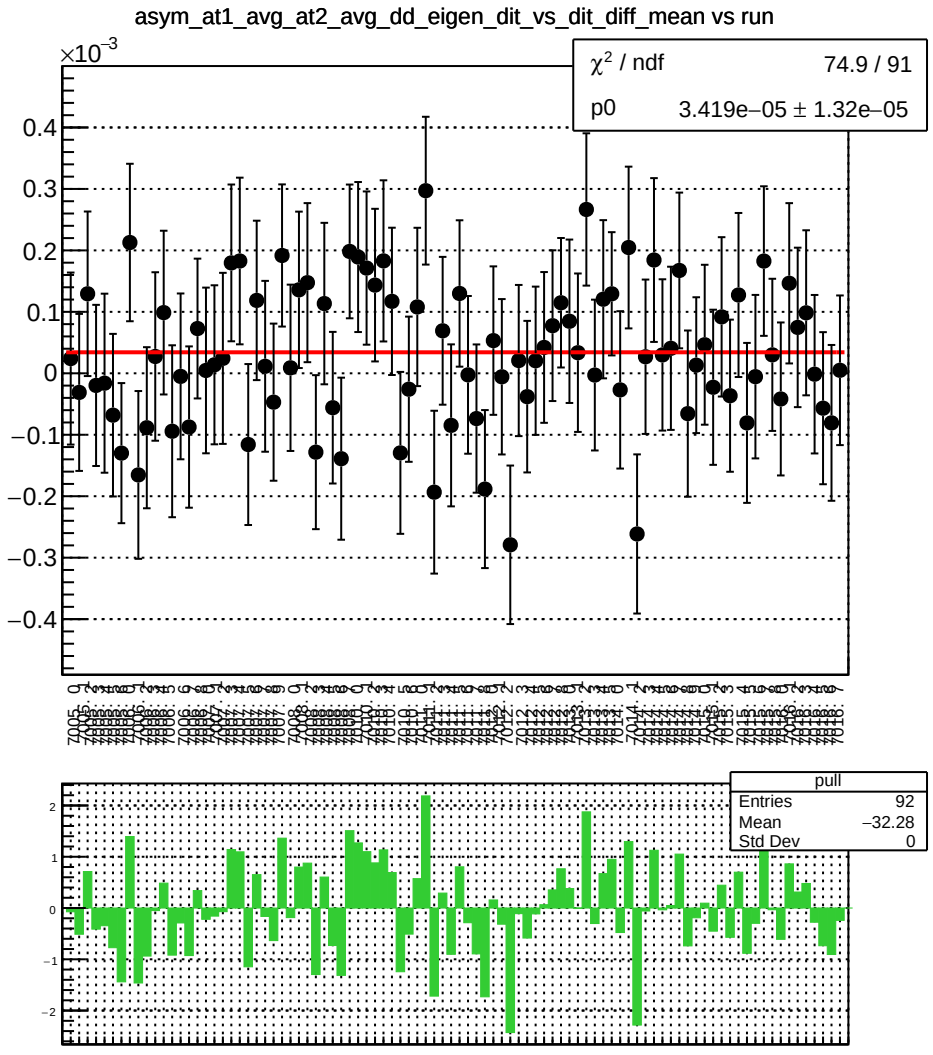

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 91
p0 5.187e−11 ± 7.039e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

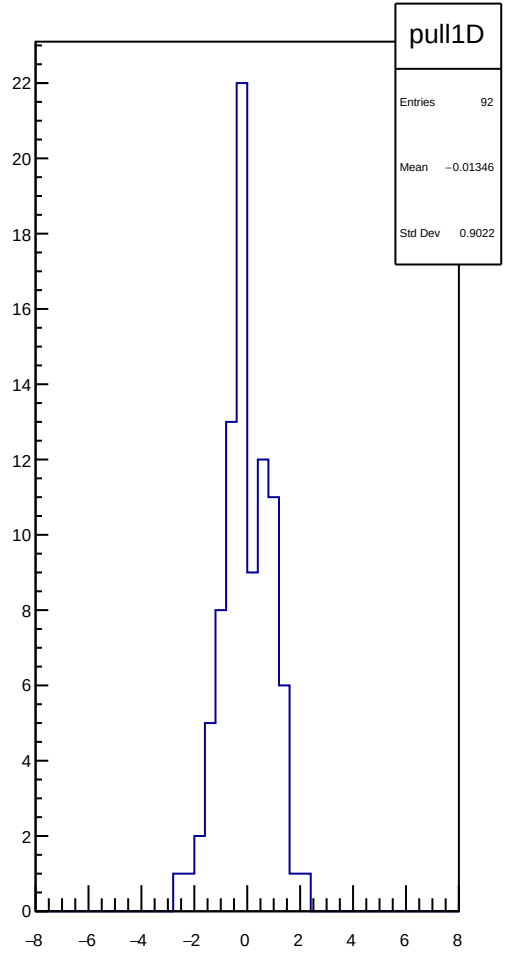

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.2
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

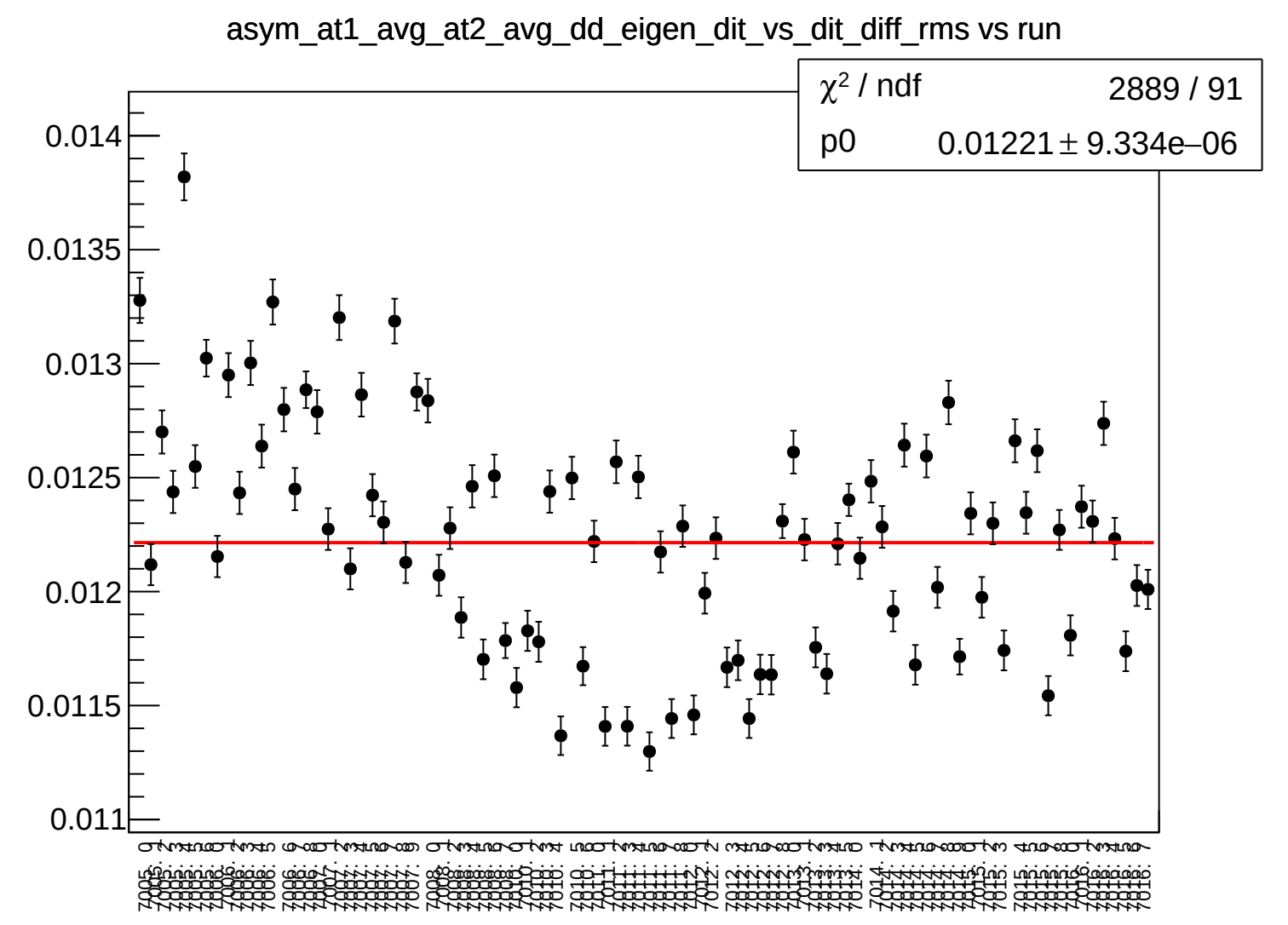

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

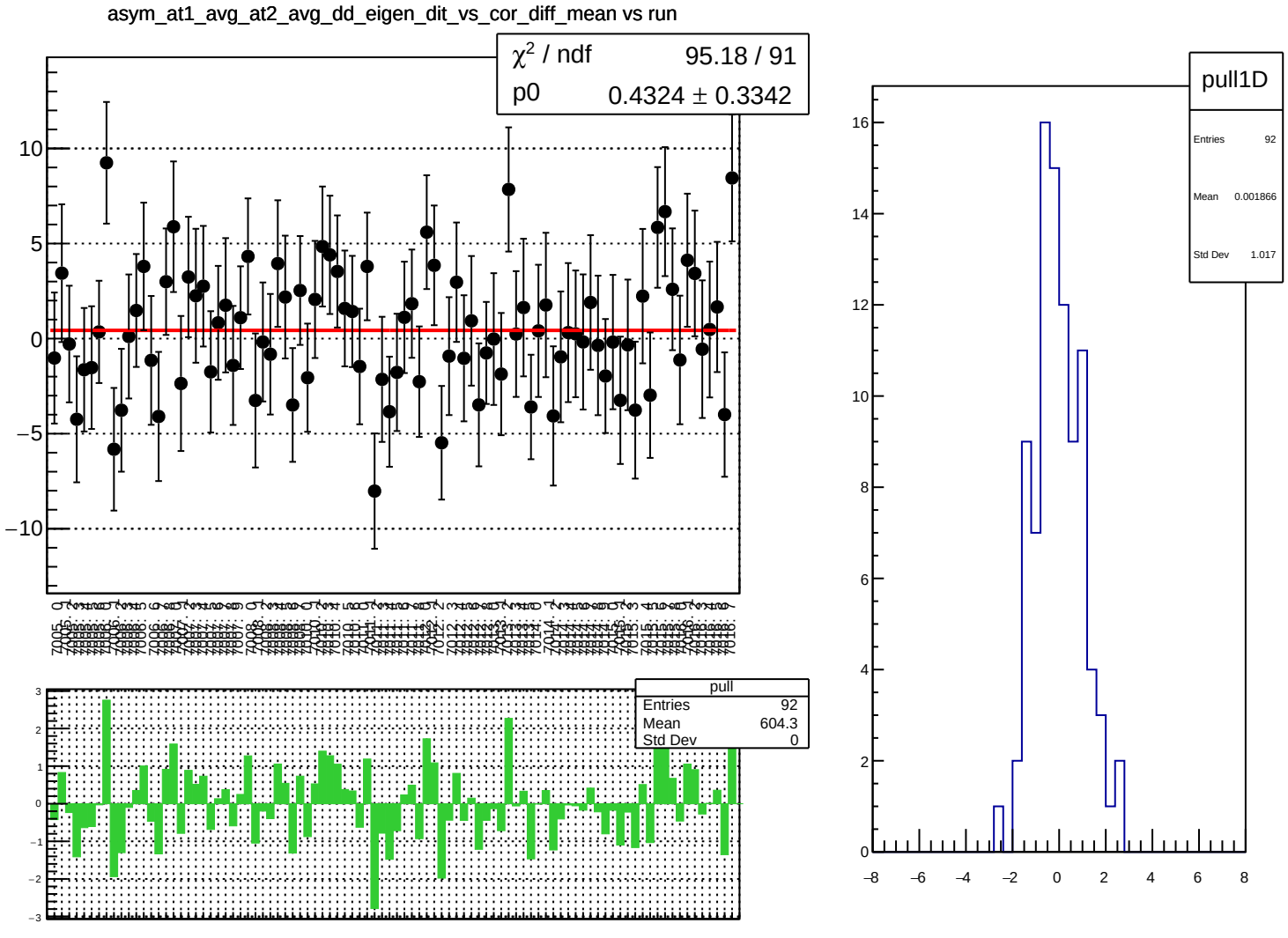

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.2
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

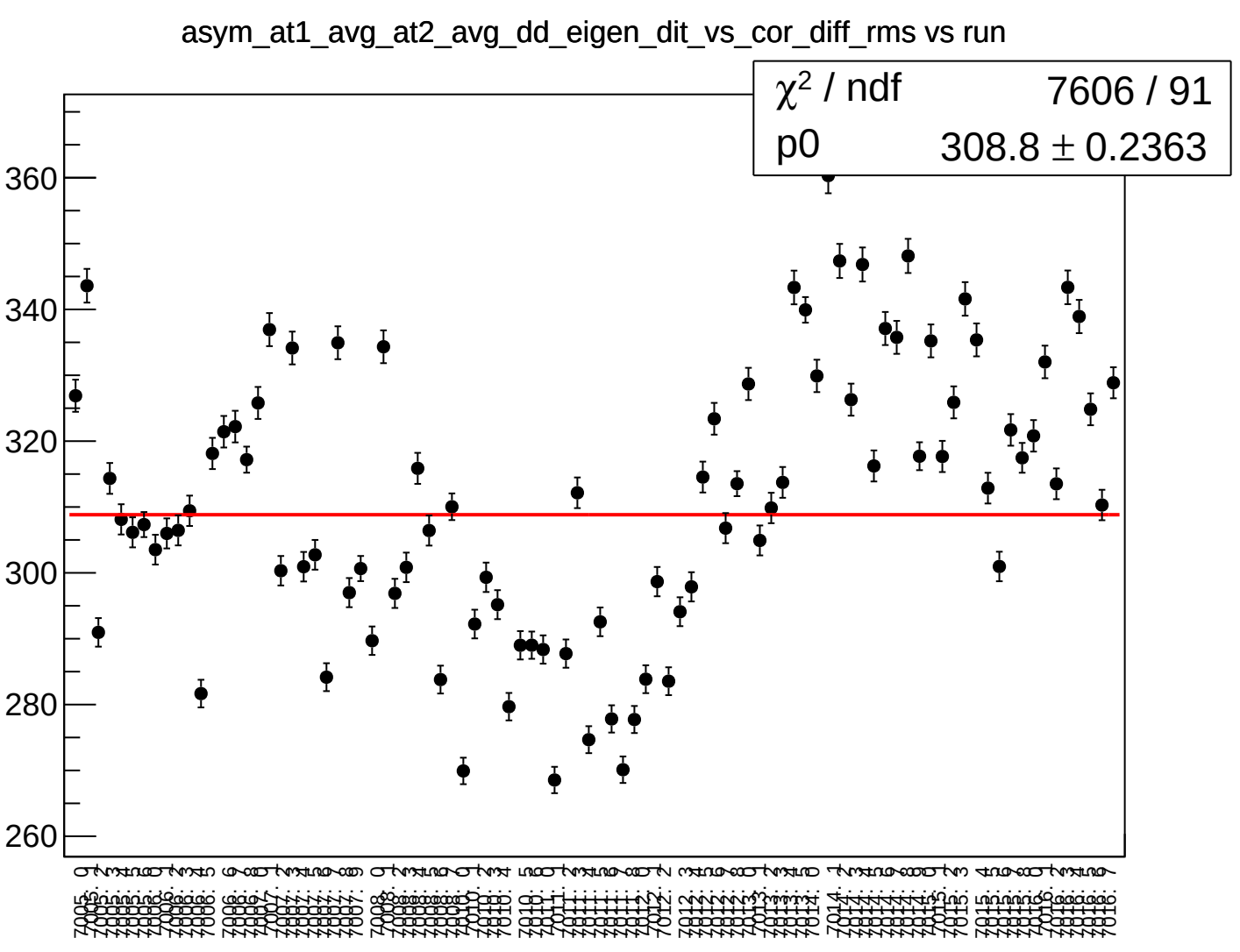

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

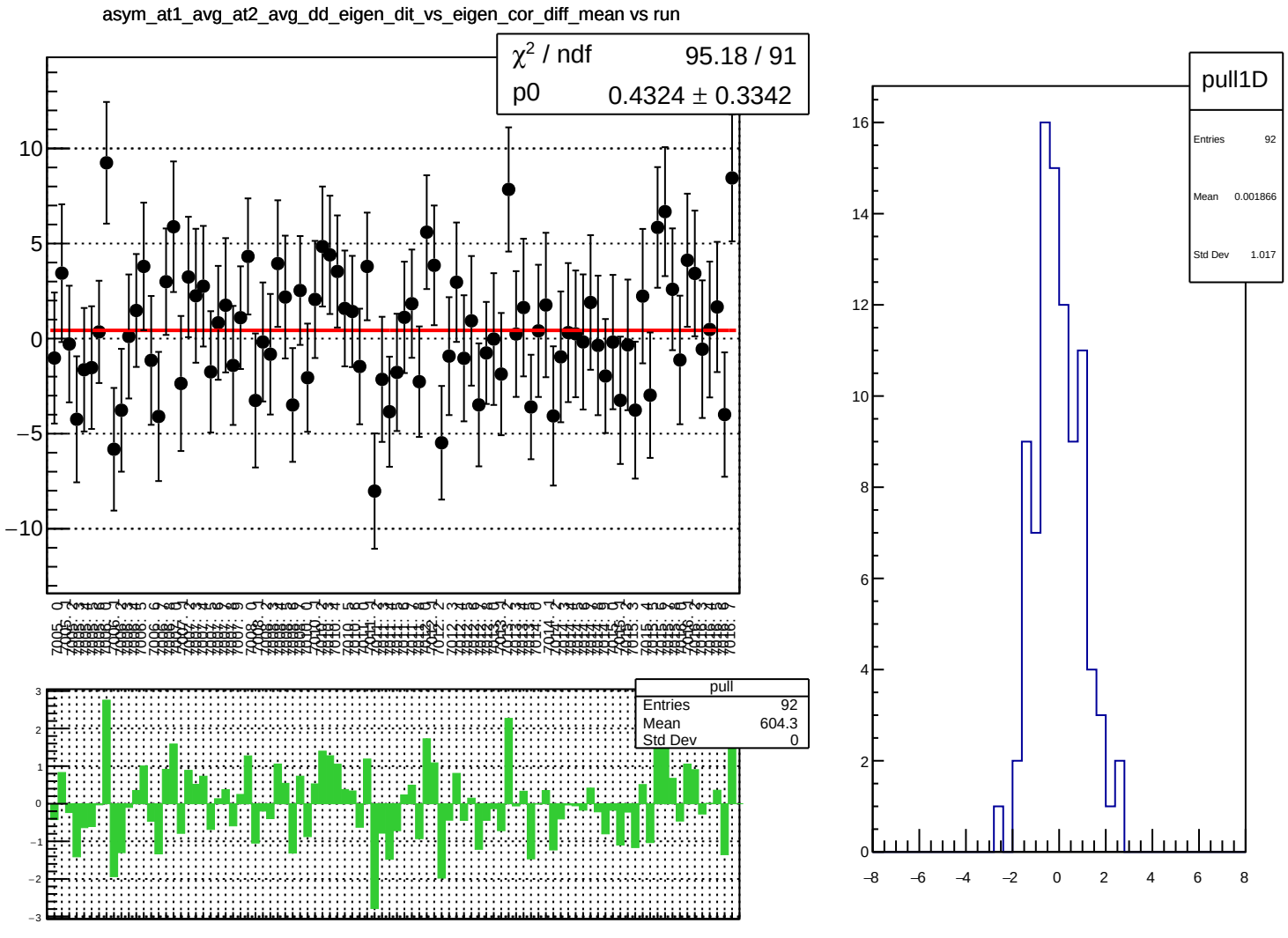

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.9 / 91
p0 3.419e−05 ± 1.32e−05
pull
Entries 92
Mean −32.28
Std Dev 0

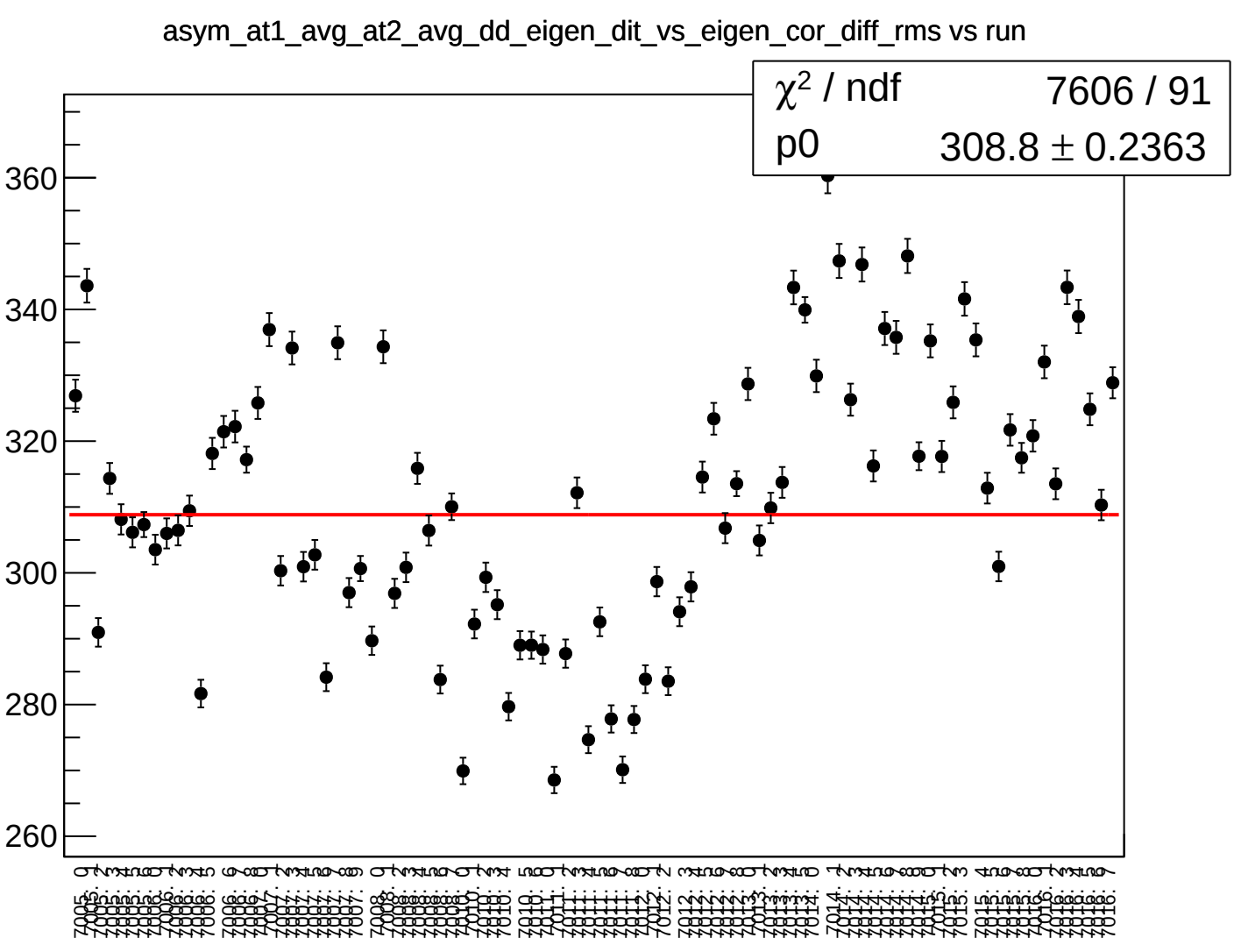

pull1D
Entries 92
Mean −0.01346
Std Dev 0.9022

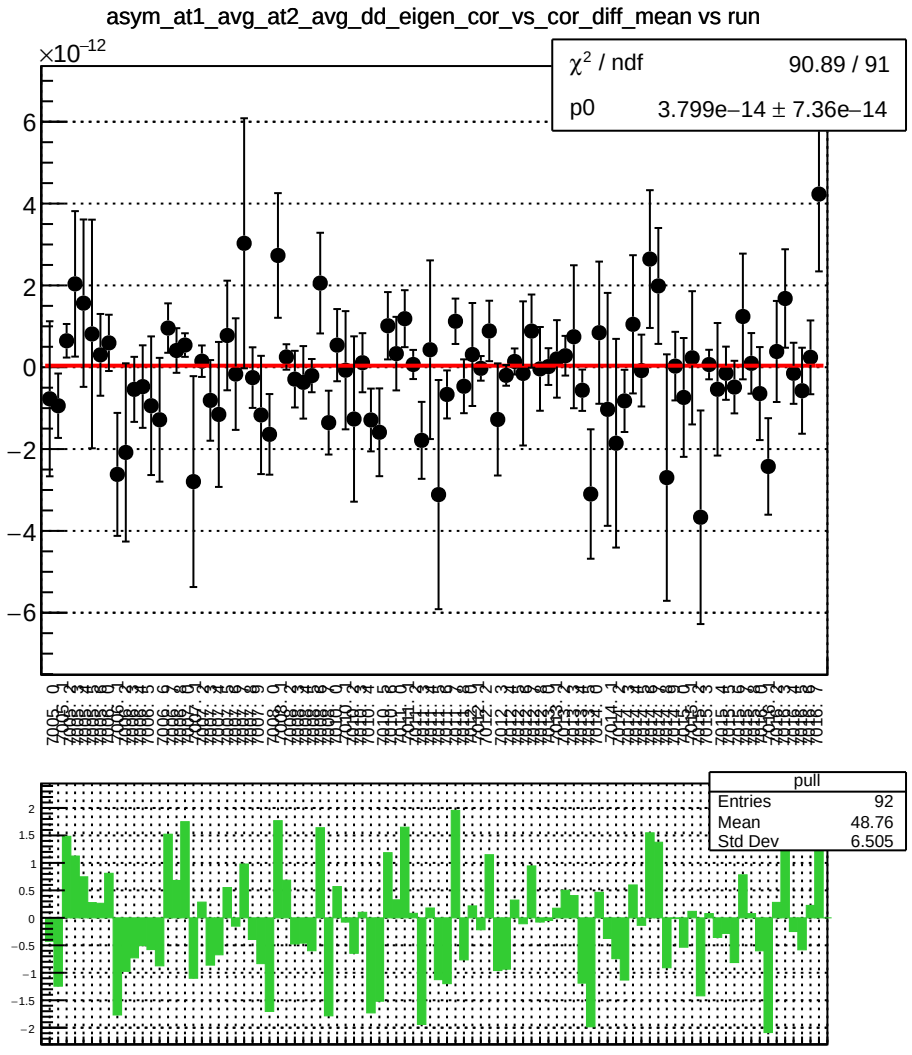

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2889 / 91
p0 0.01221 ± 9.334e–06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

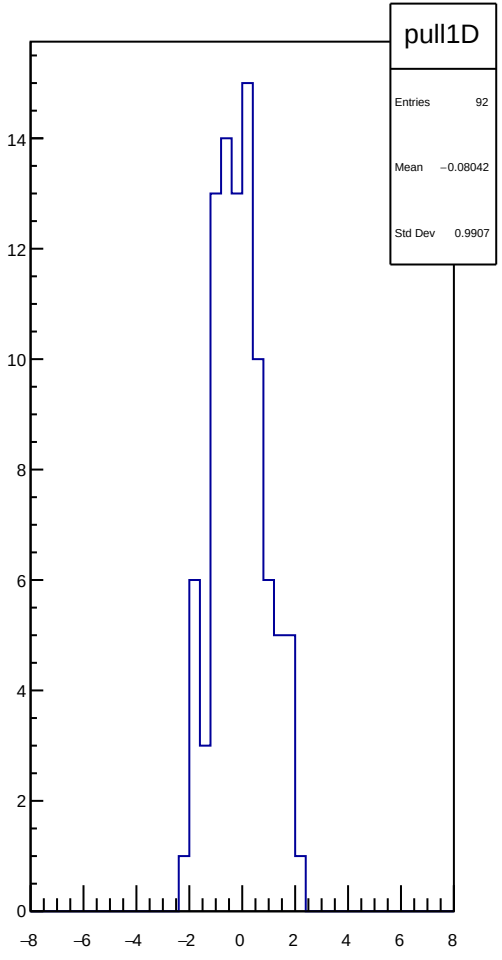

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.3
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

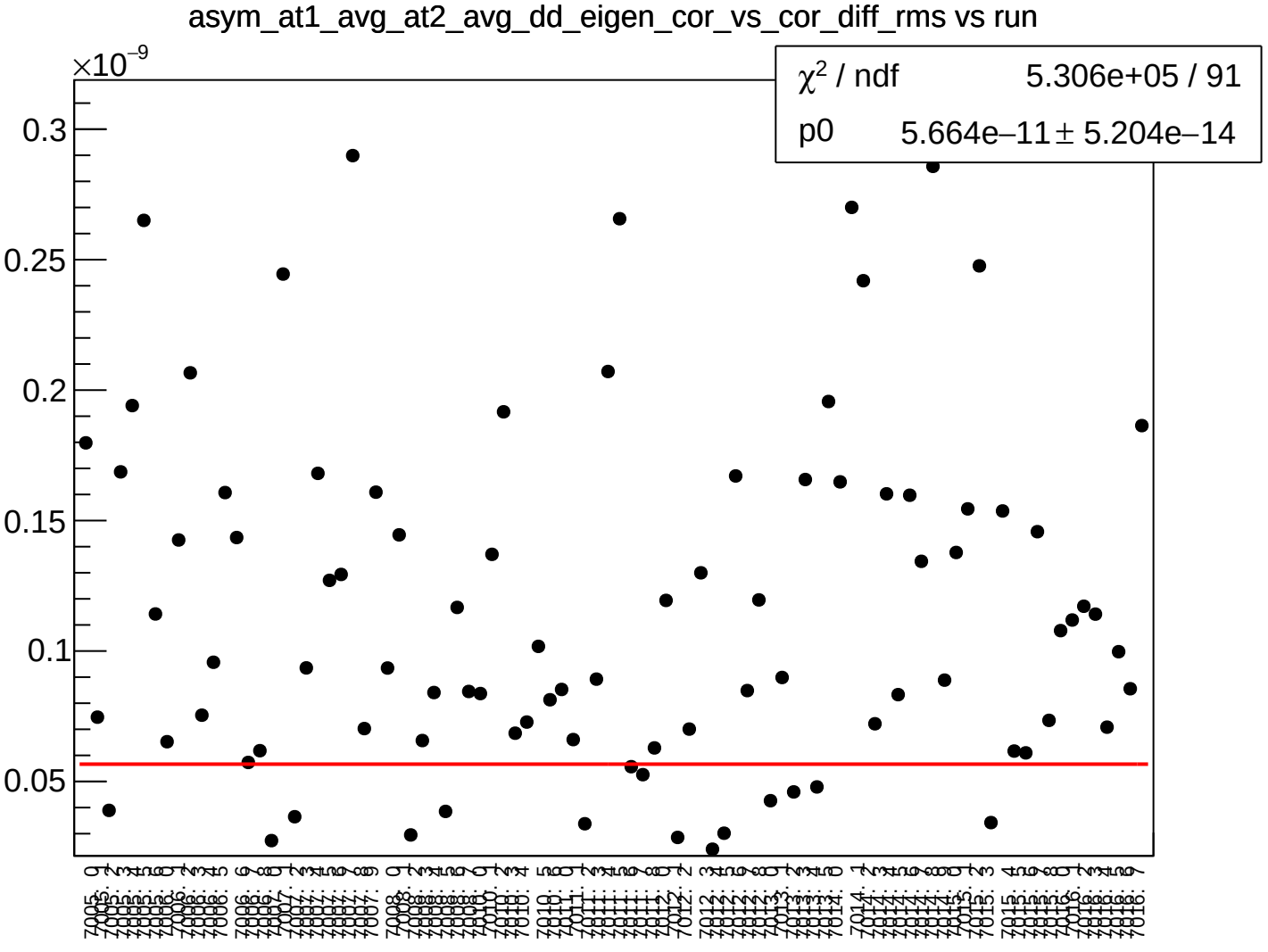

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

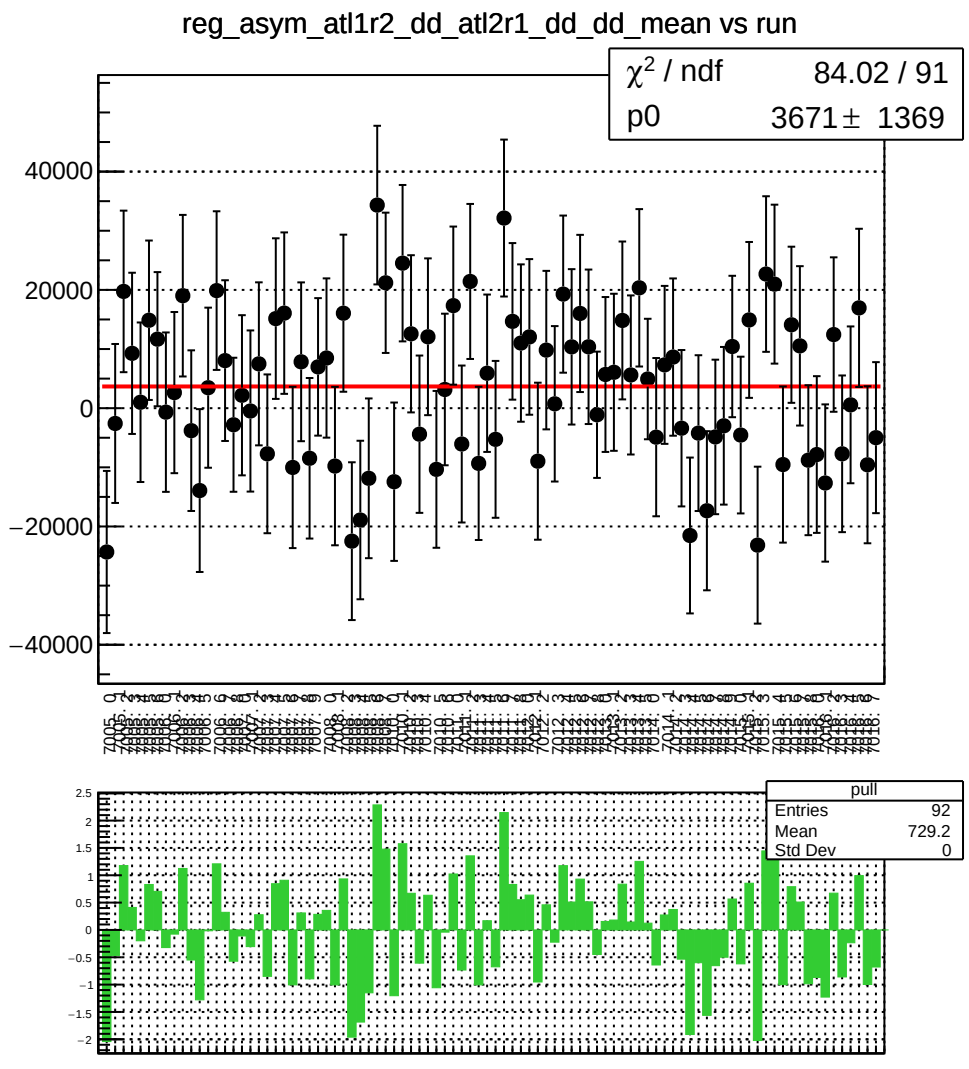

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.3
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

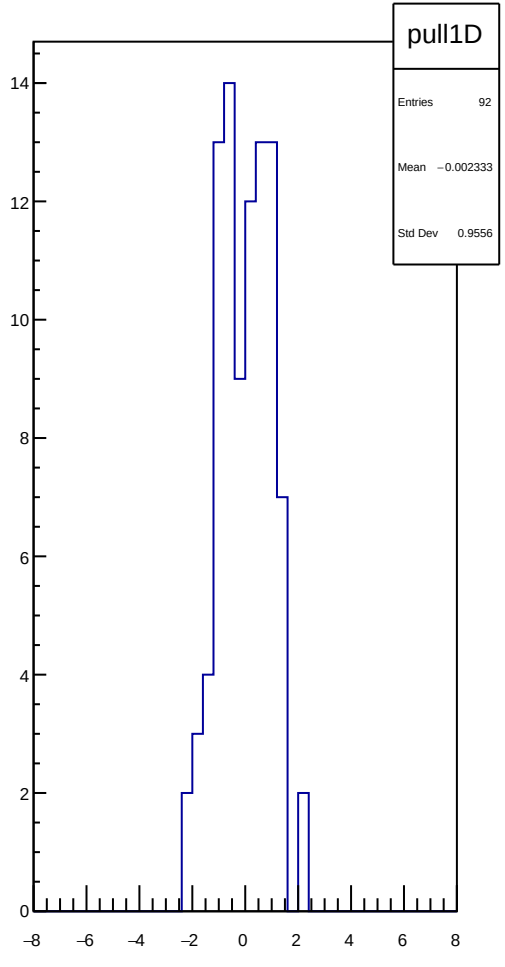

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

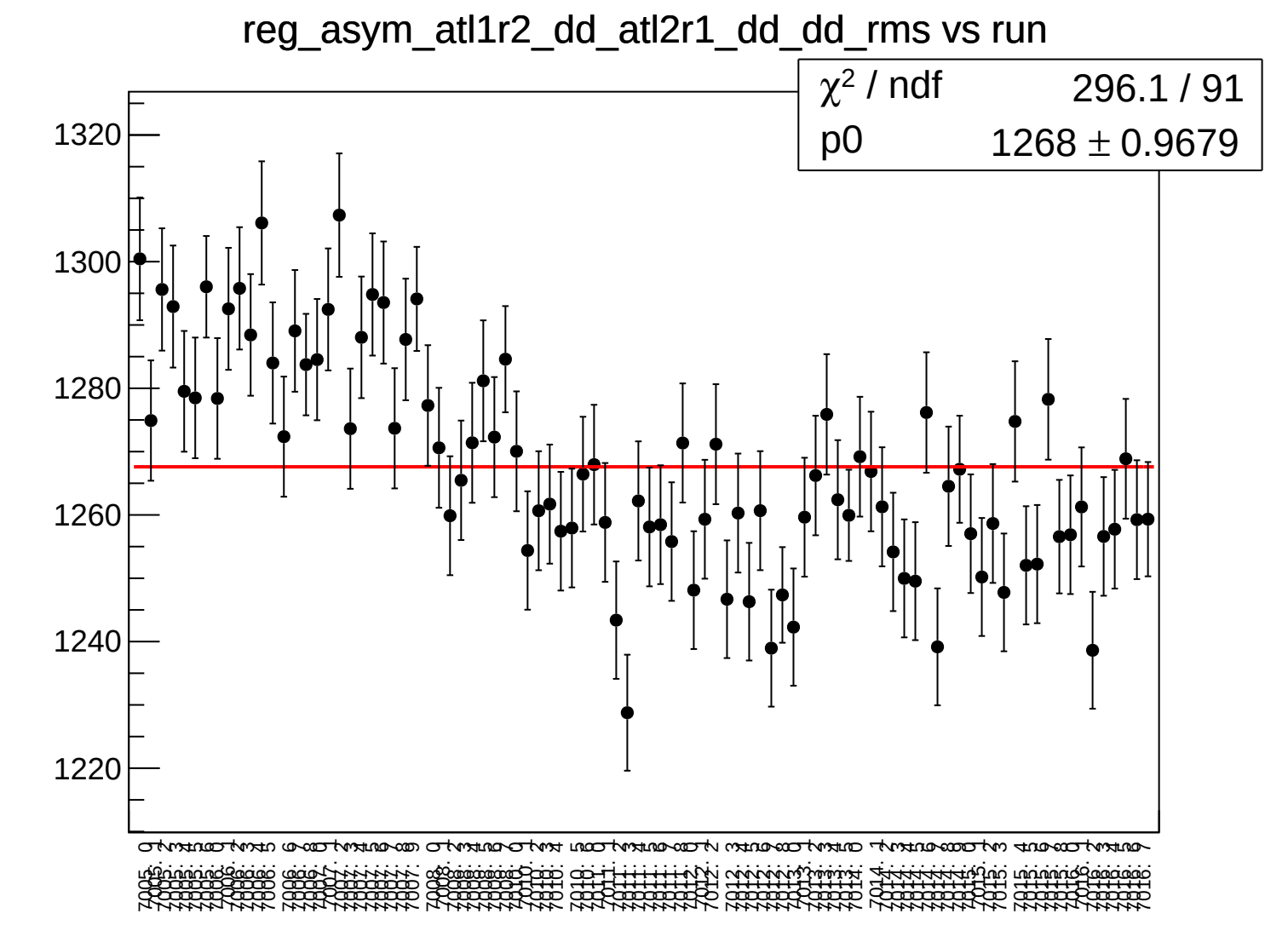

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.89 / 91
p0 3.799e−14 ± 7.36e−14
pull
Entries 92
Mean 48.76
Std Dev 6.505

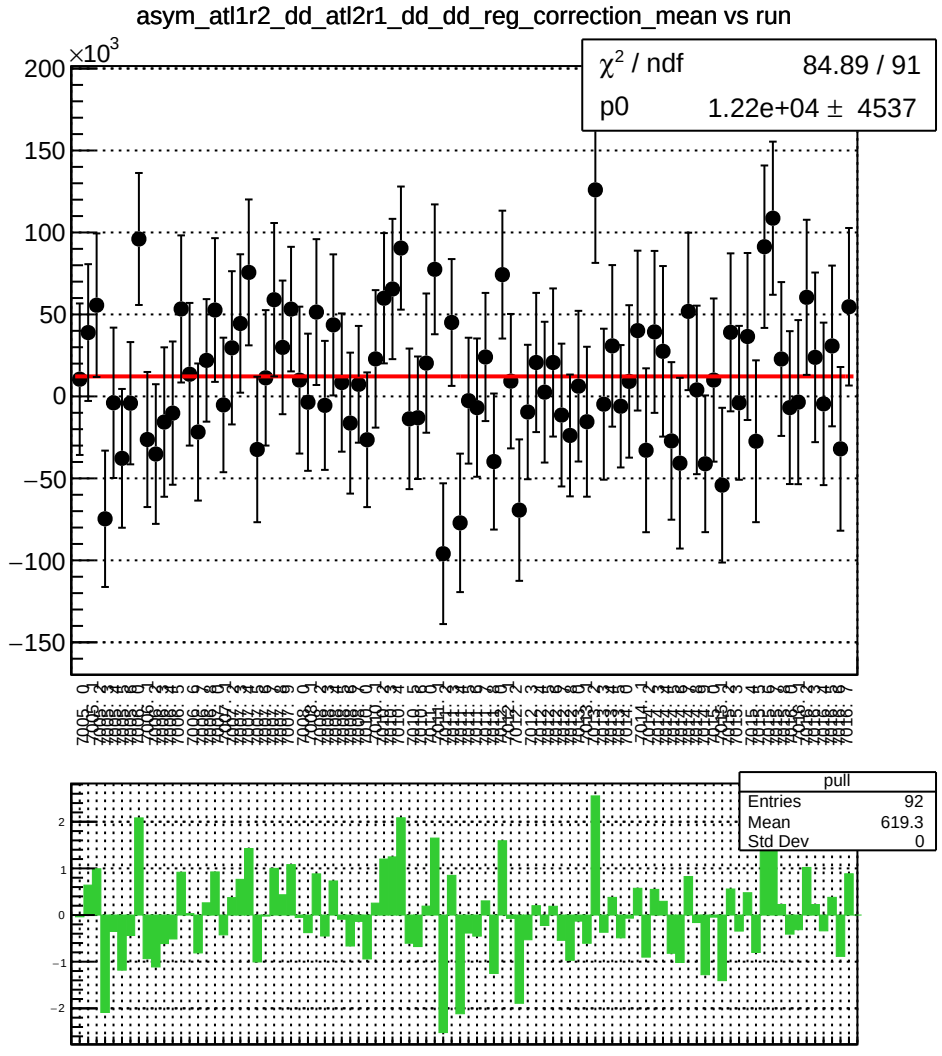

pull1D
Entries 92
Mean −0.08042
Std Dev 0.9907

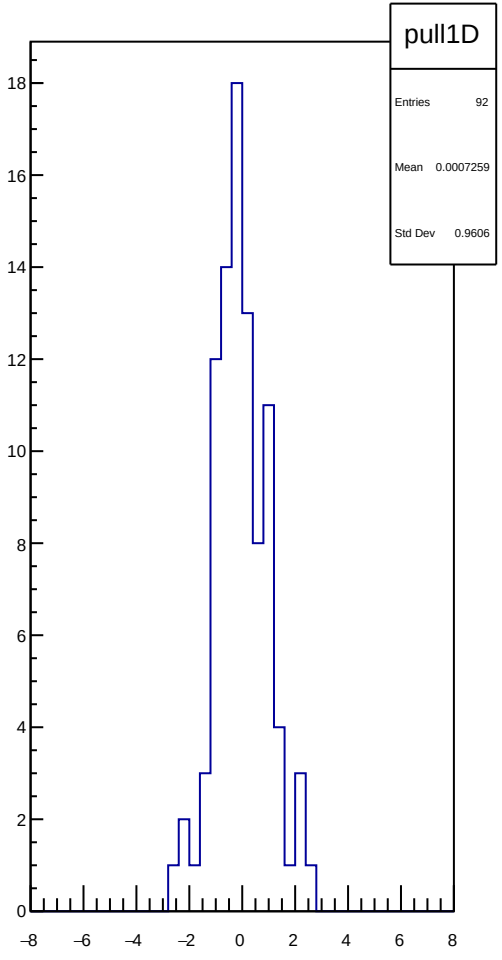

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.306e+05 / 91
p0 5.664e−11 ± 5.204e−14
0.3
0.25
0.2
0.15
0.1
0.05

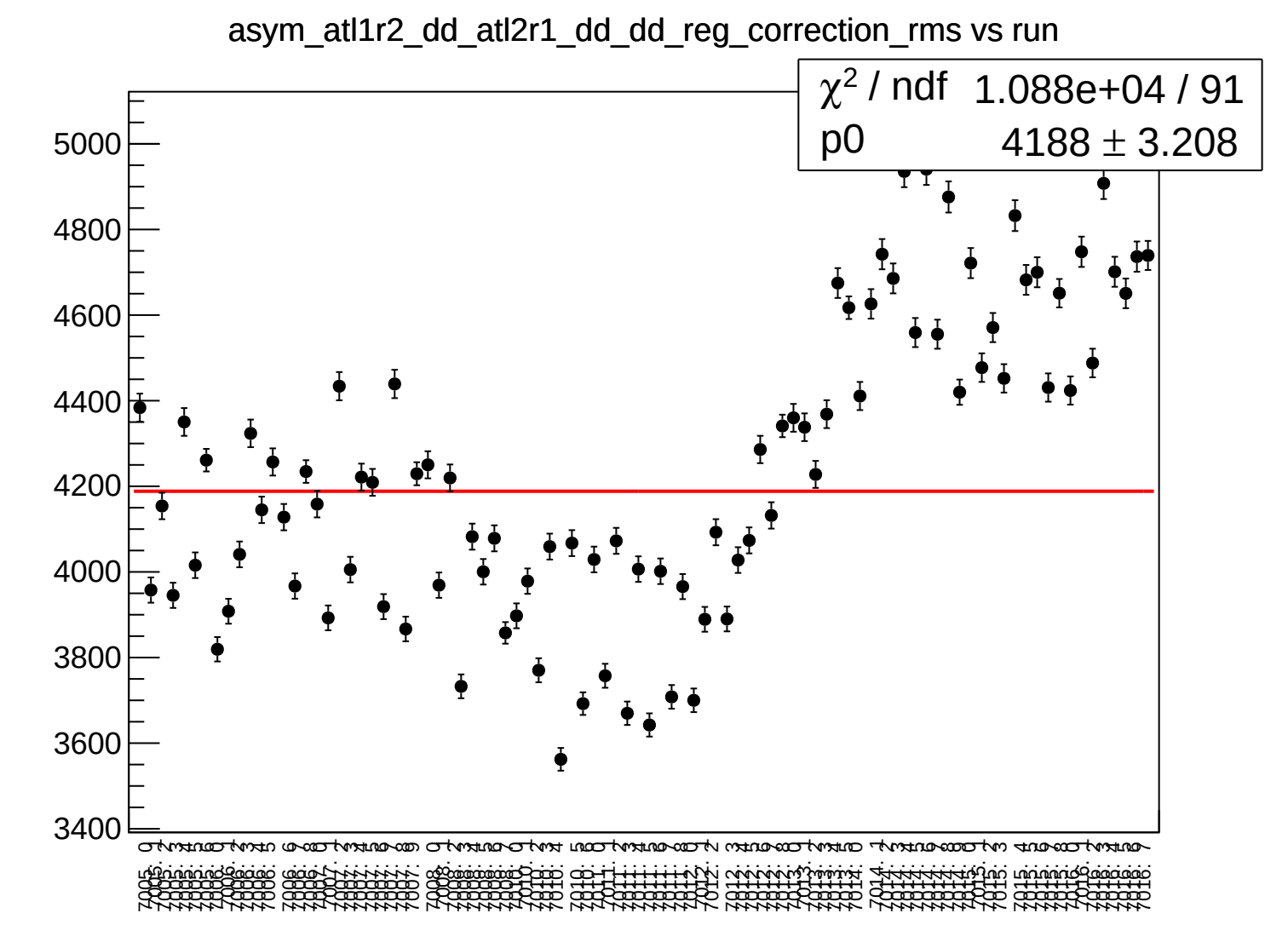

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.02 / 91
p0 3671 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 729.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

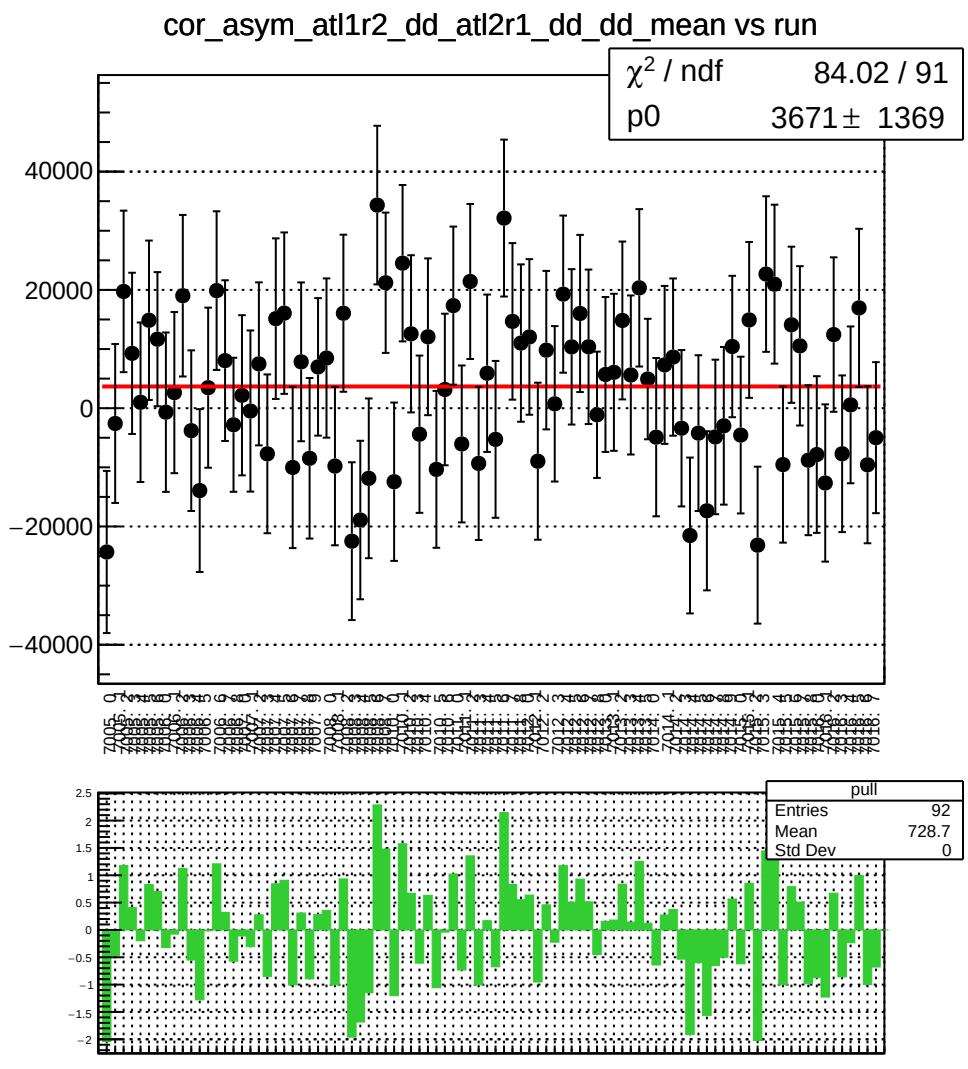

pull1D
Entries 92
Mean −0.002333
Std Dev 0.9556
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

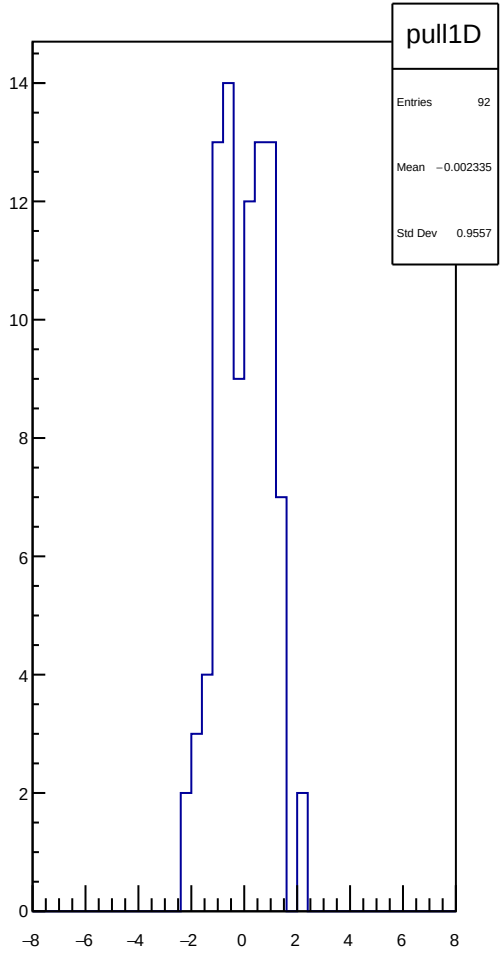

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 296.1 / 91
p0 1268 ± 0.9679
1320
1300
1280
1260
1240
1220

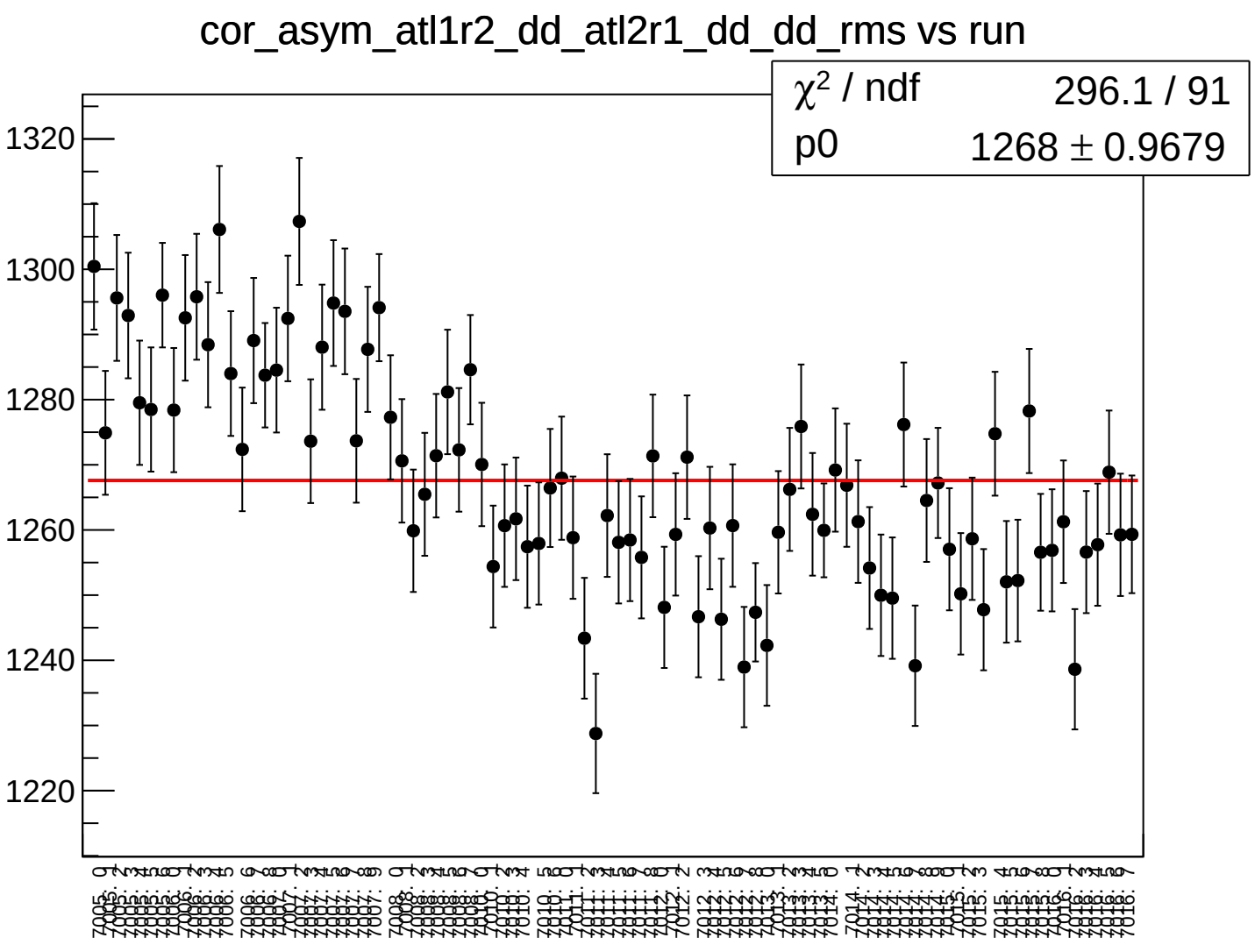

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.89 / 91
p0 1.22e+04 ± 4537
pull
Entries 92
Mean 619.3
Std Dev 0

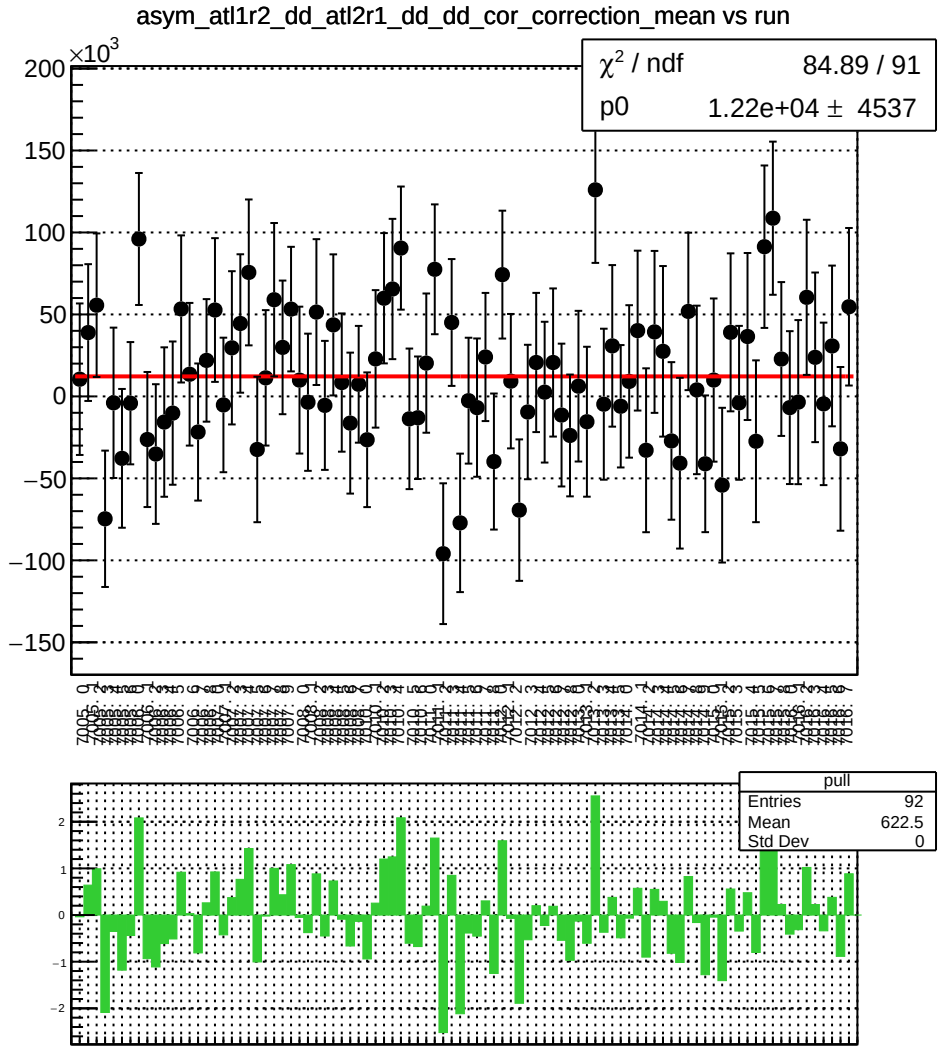

pull1D
Entries 92
Mean 0.0007259
Std Dev 0.9606

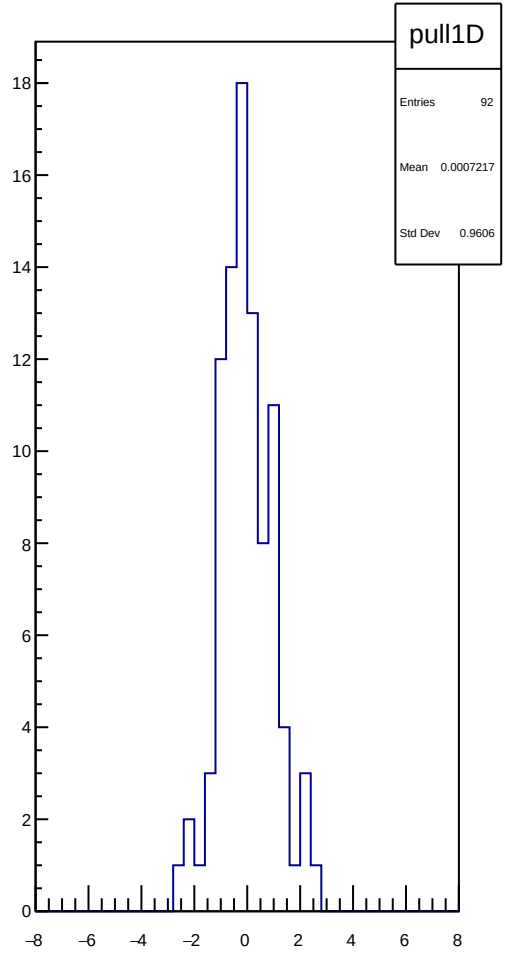

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.088e+04 / 91
p0 4188 ± 3.208
5000
4800
4600
4400
4200
4000
3800
3600
3400

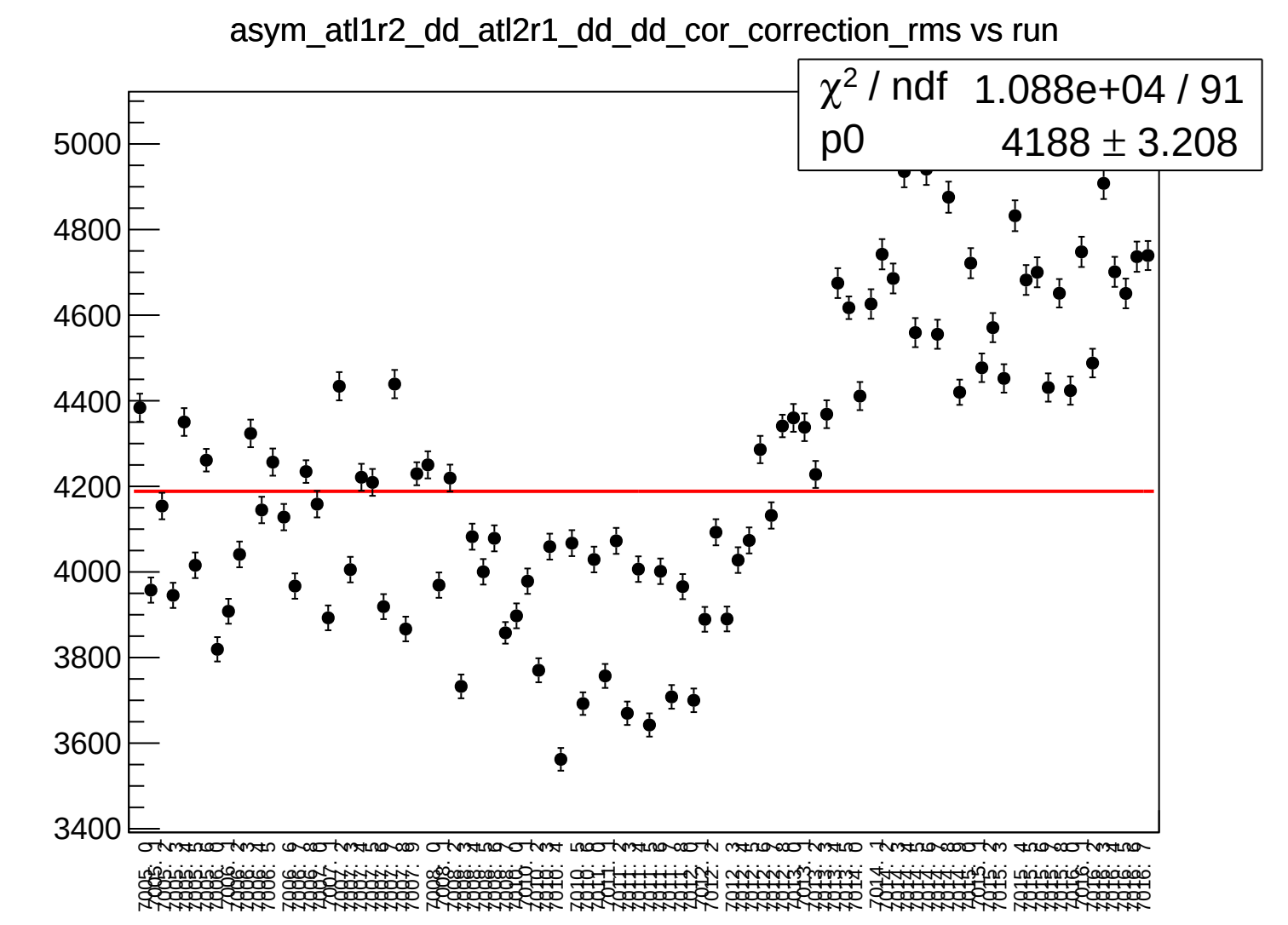

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.02 / 91
p0 3671 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 728.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

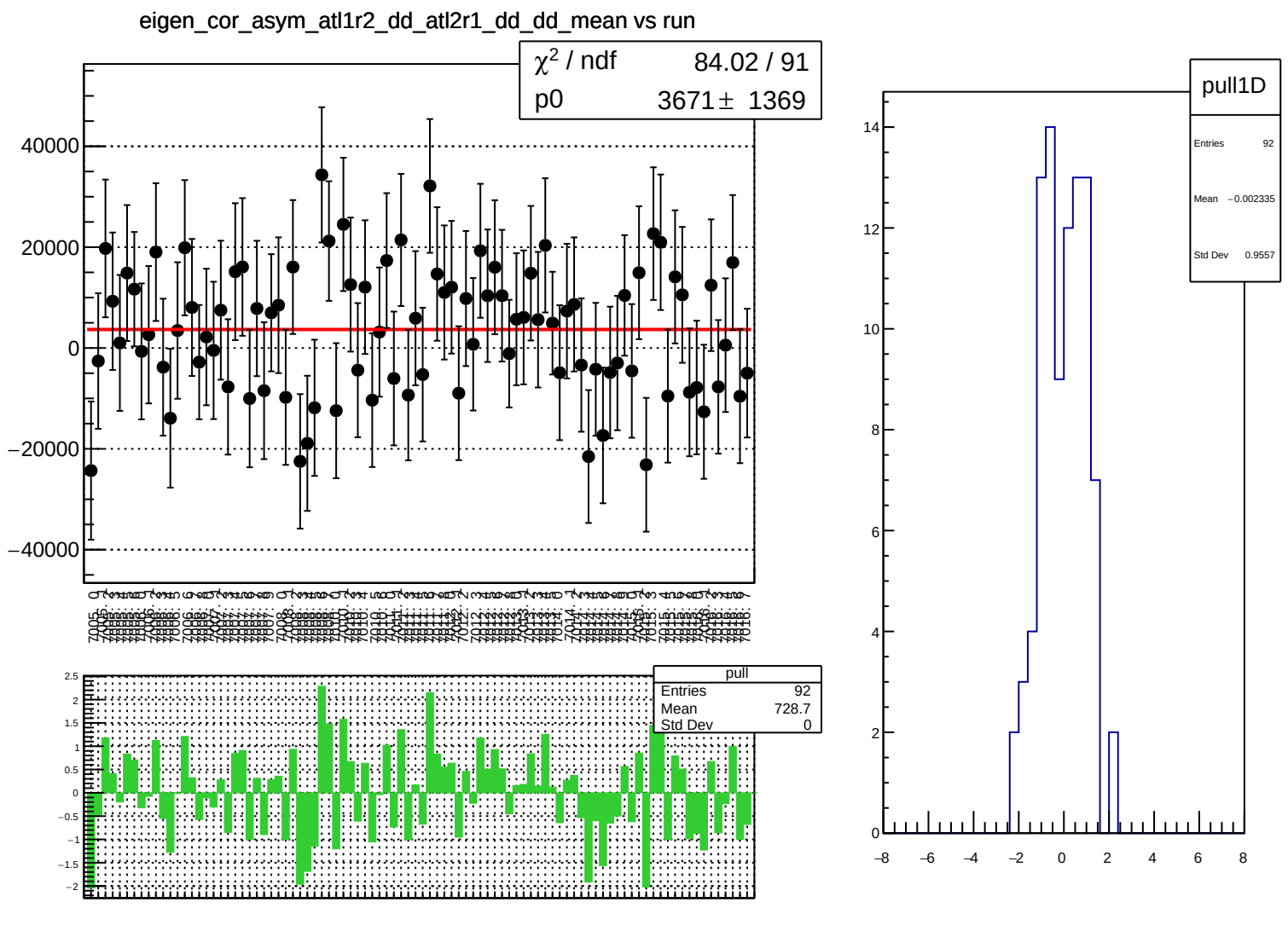

pull1D
Entries 92
Mean −0.002335
Std Dev 0.9557
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

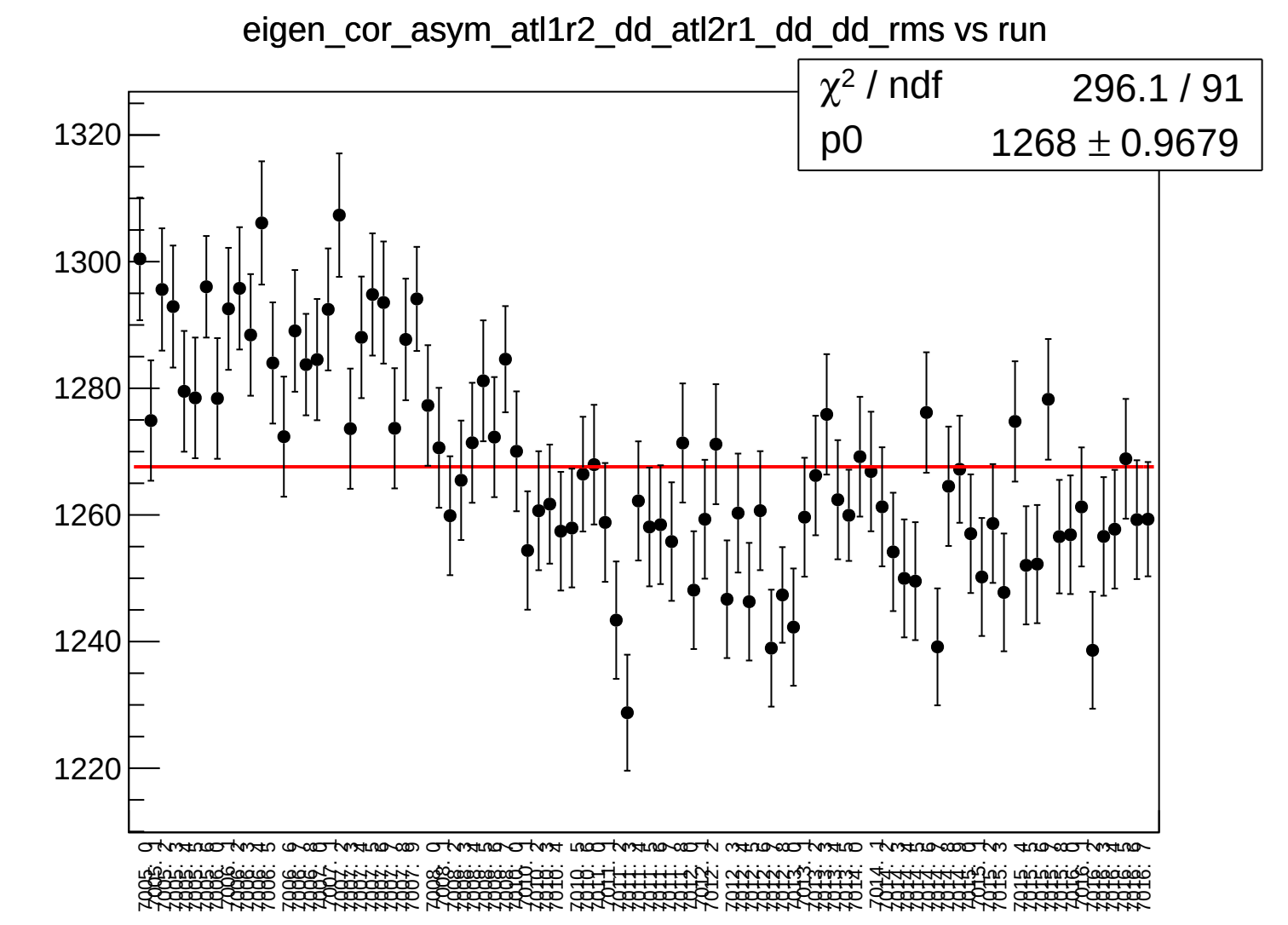

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 296.1 / 91
p0 1268 ± 0.9679
1320
1300
1280
1260
1240
1220

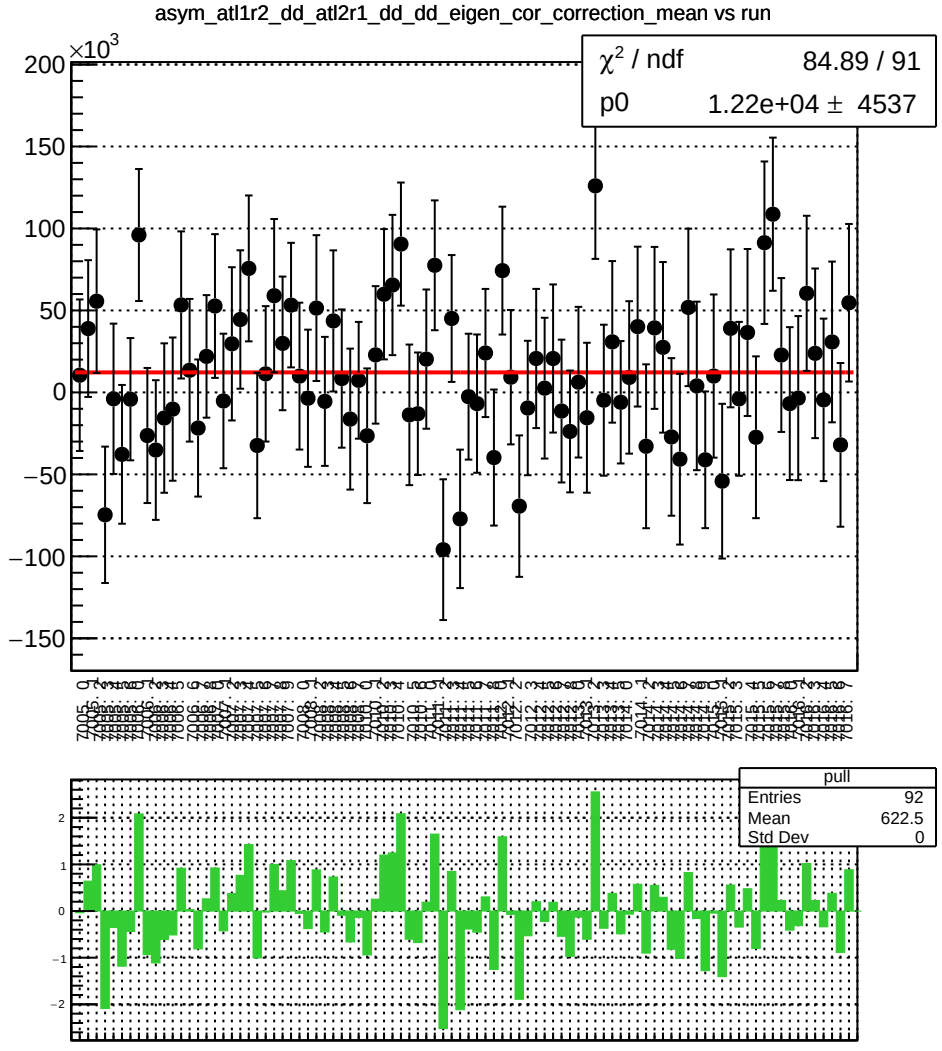

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.89 / 91
p0 1.22e+04 ± 4537
pull
Entries 92
Mean 622.5
Std Dev 0

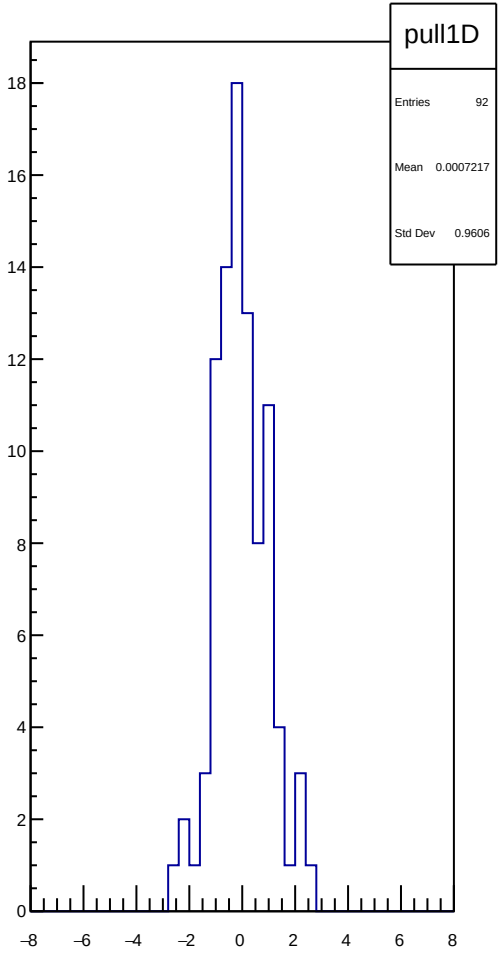

pull1D
Entries 92
Mean 0.0007217
Std Dev 0.9606

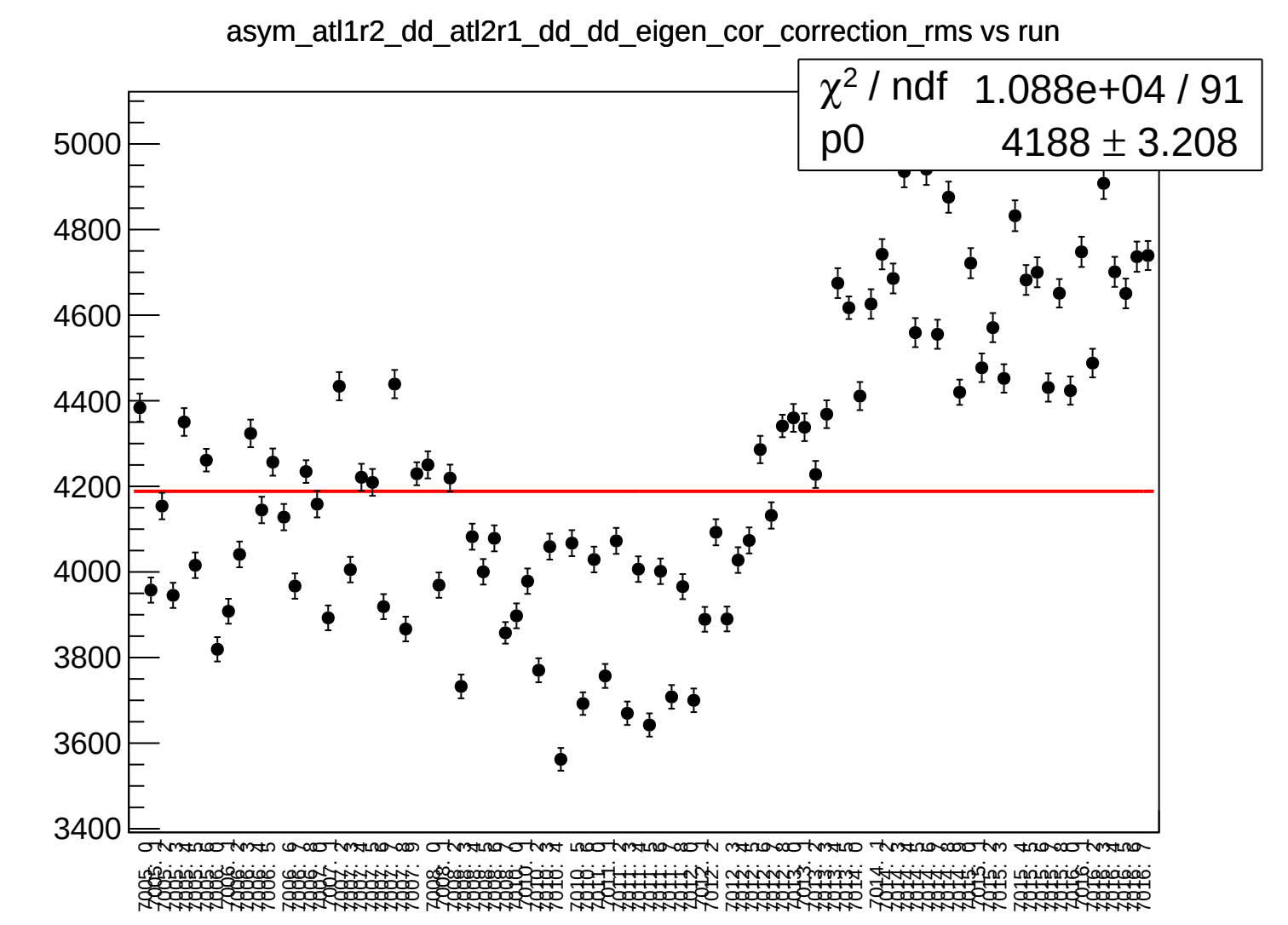

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.088e+04 / 91
p0 4188 ± 3.208
5000
4800
4600
4400
4200
4000
3800
3600
3400

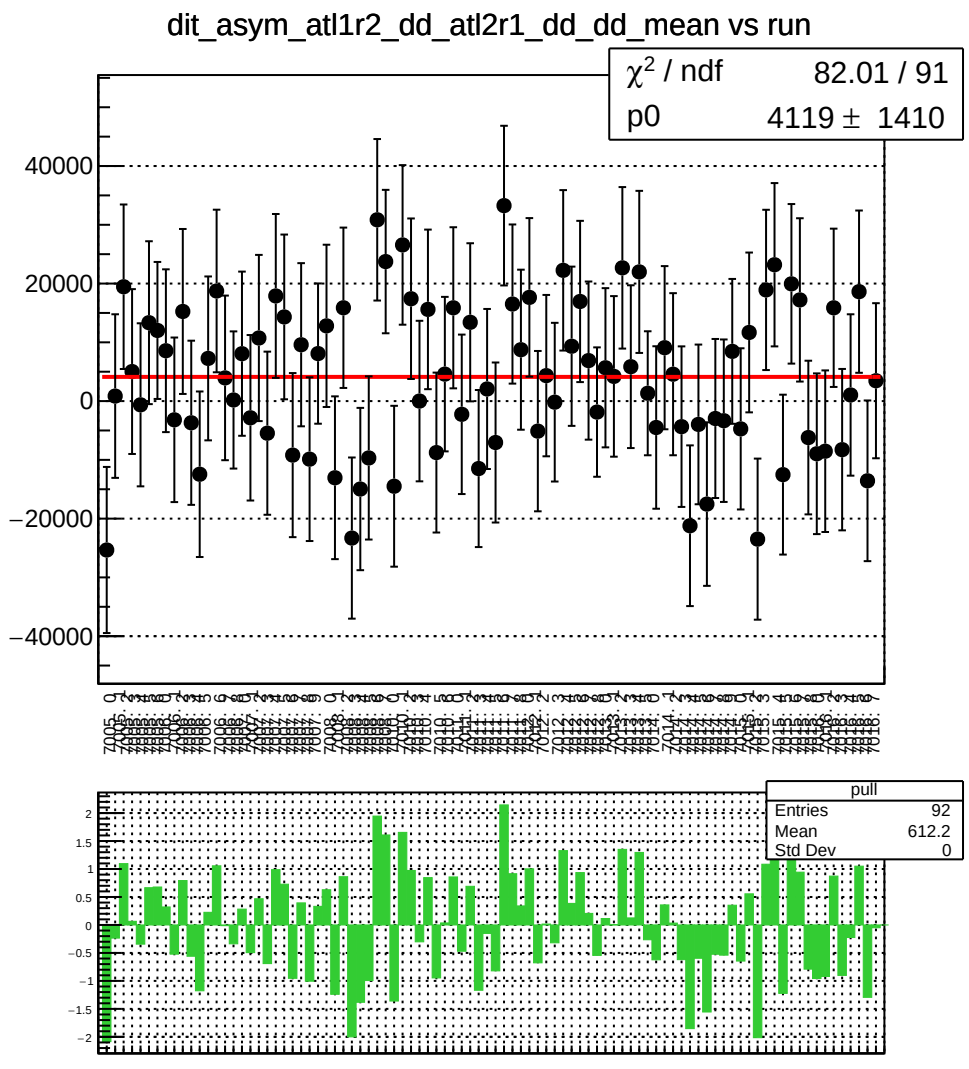

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 84.02 / 91
p0 3671 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 728.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.002335
Std Dev 0.9557
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

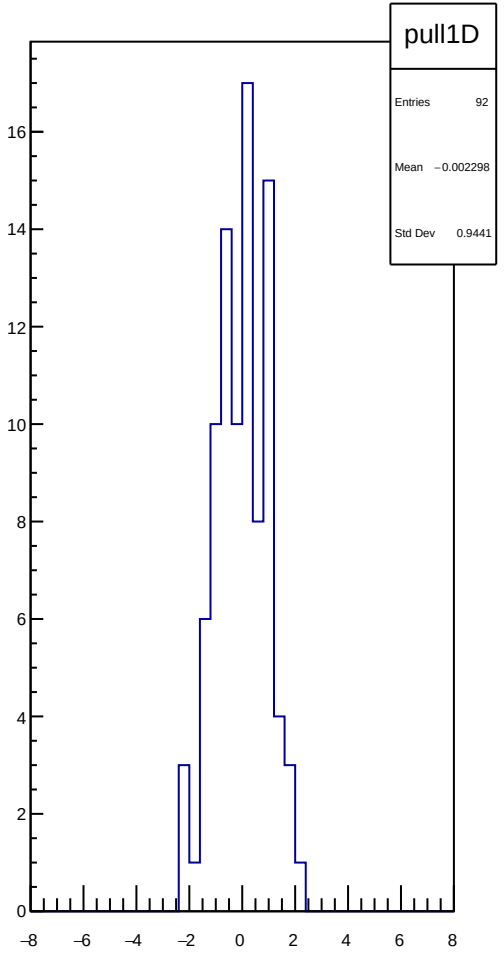

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 296.1 / 91
p0 1268 ± 0.9679
1320
1300
1280
1260
1240
1220

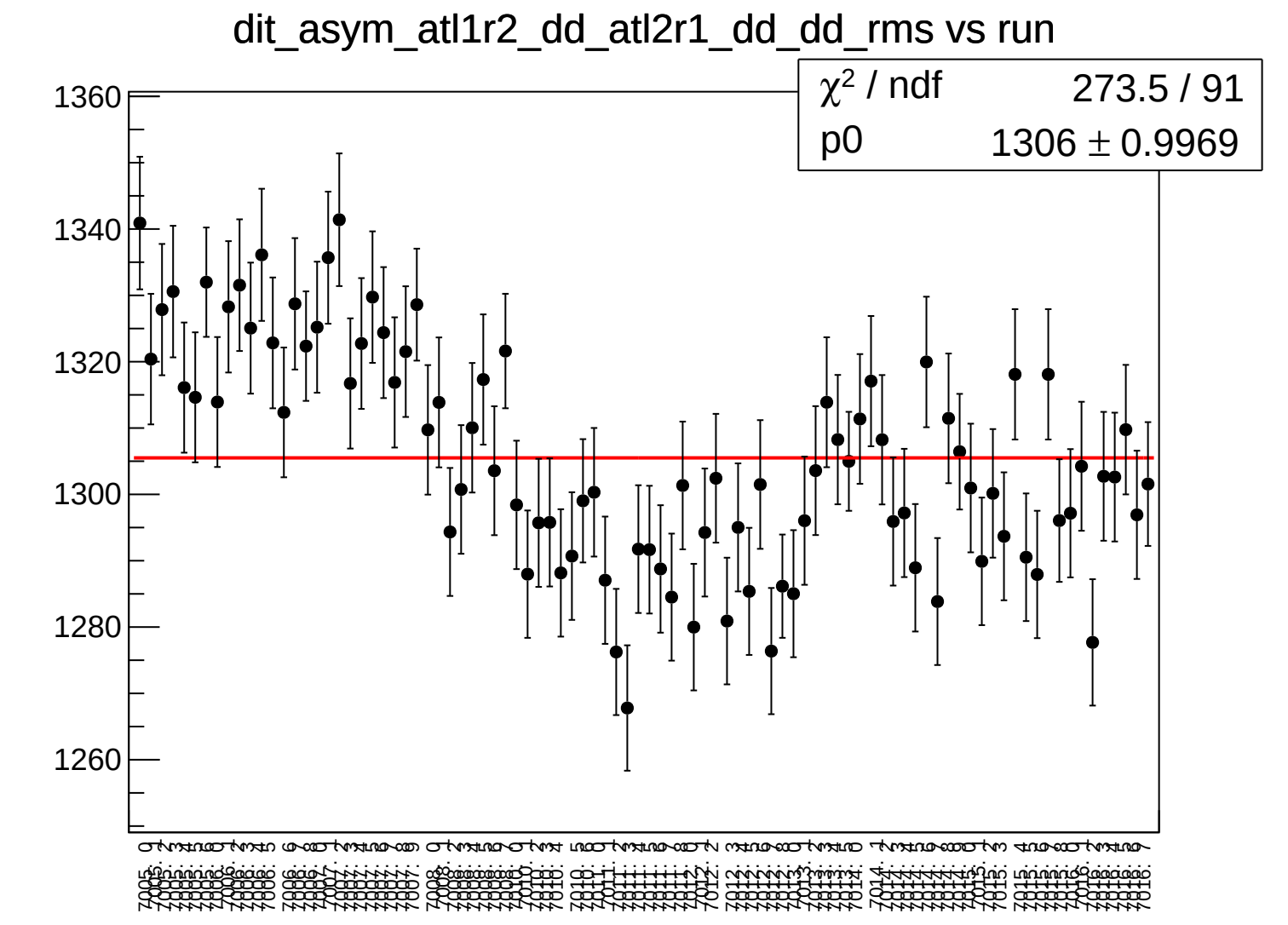

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.89 / 91
p0 1.22e+04 ± 4537
pull
Entries 92
Mean 622.5
Std Dev 0

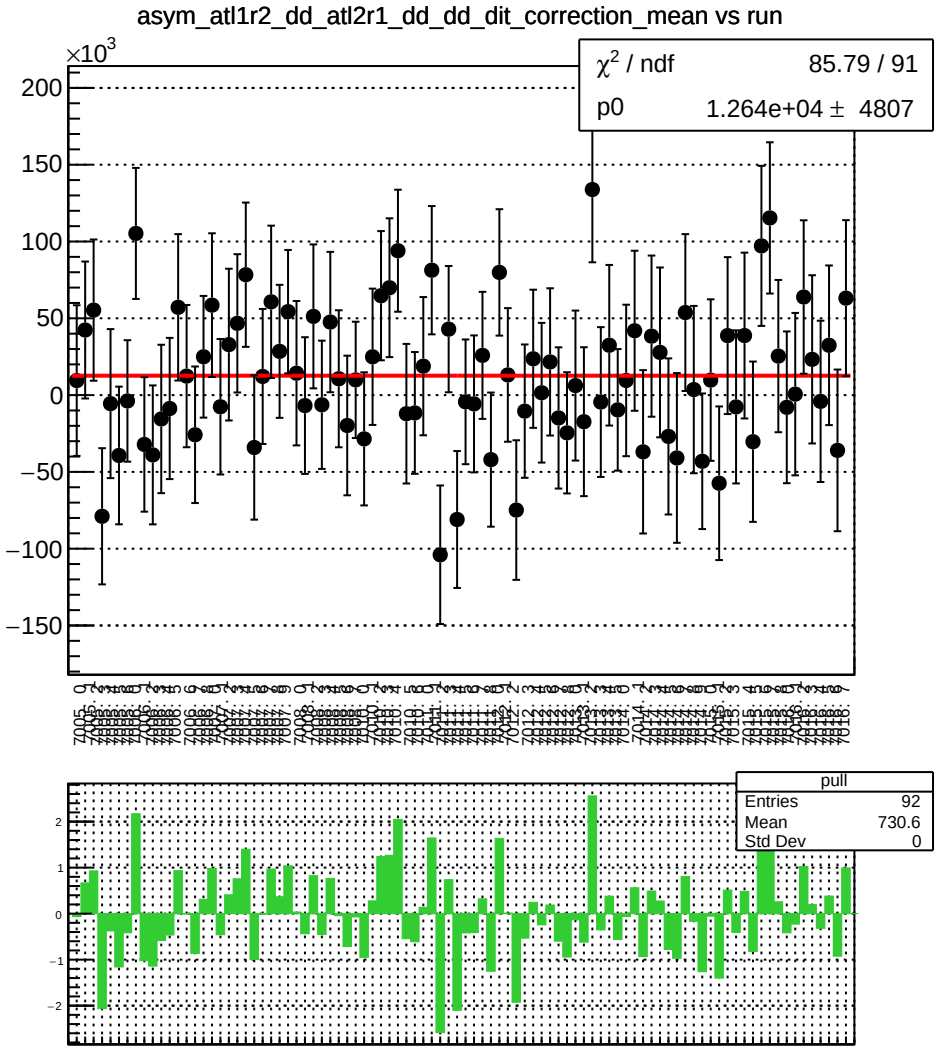

pull1D
Entries 92
Mean 0.0007217
Std Dev 0.9606

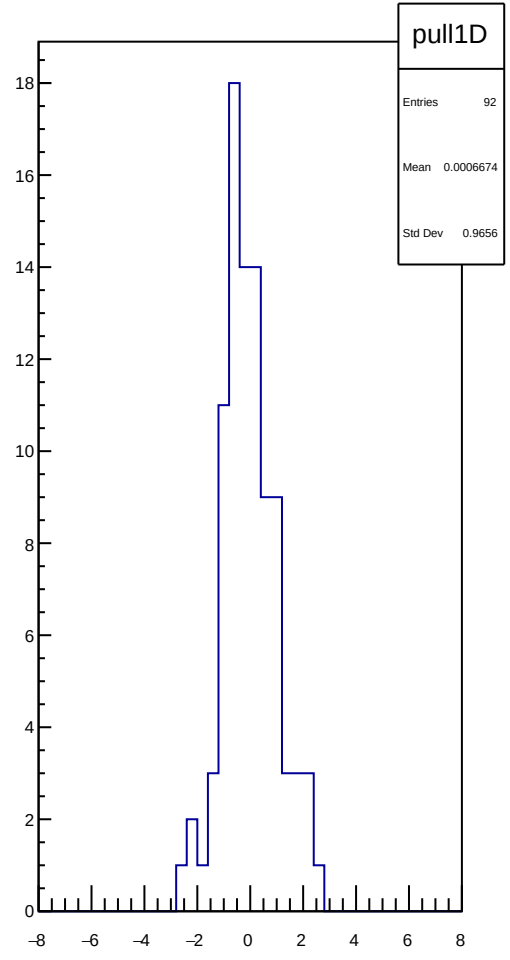

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.088e+04 / 91
p0 4188 ± 3.208
5000
4800
4600
4400
4200
4000
3800
3600
3400

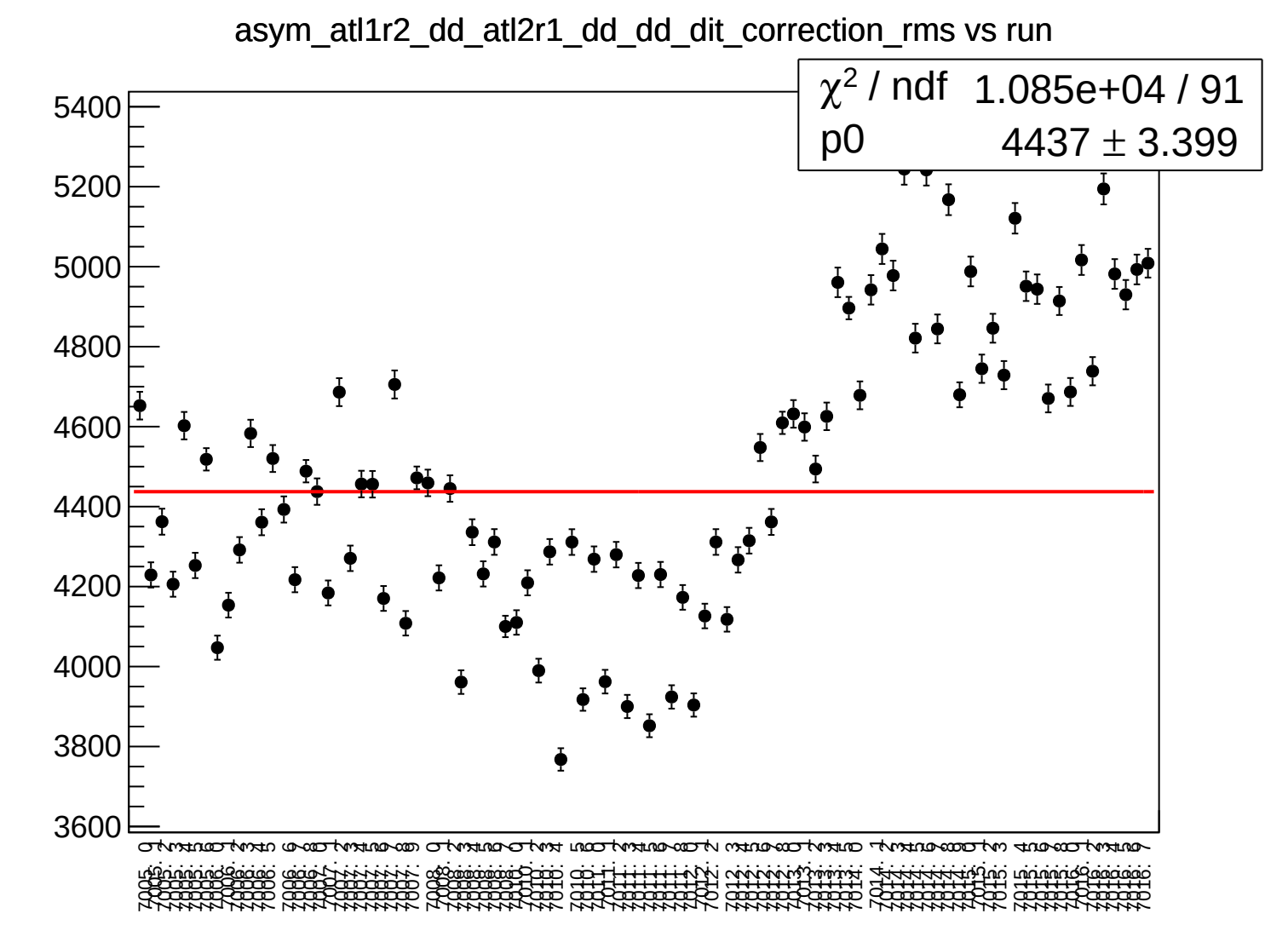

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 82.01 / 91
p0 4119 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 612.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

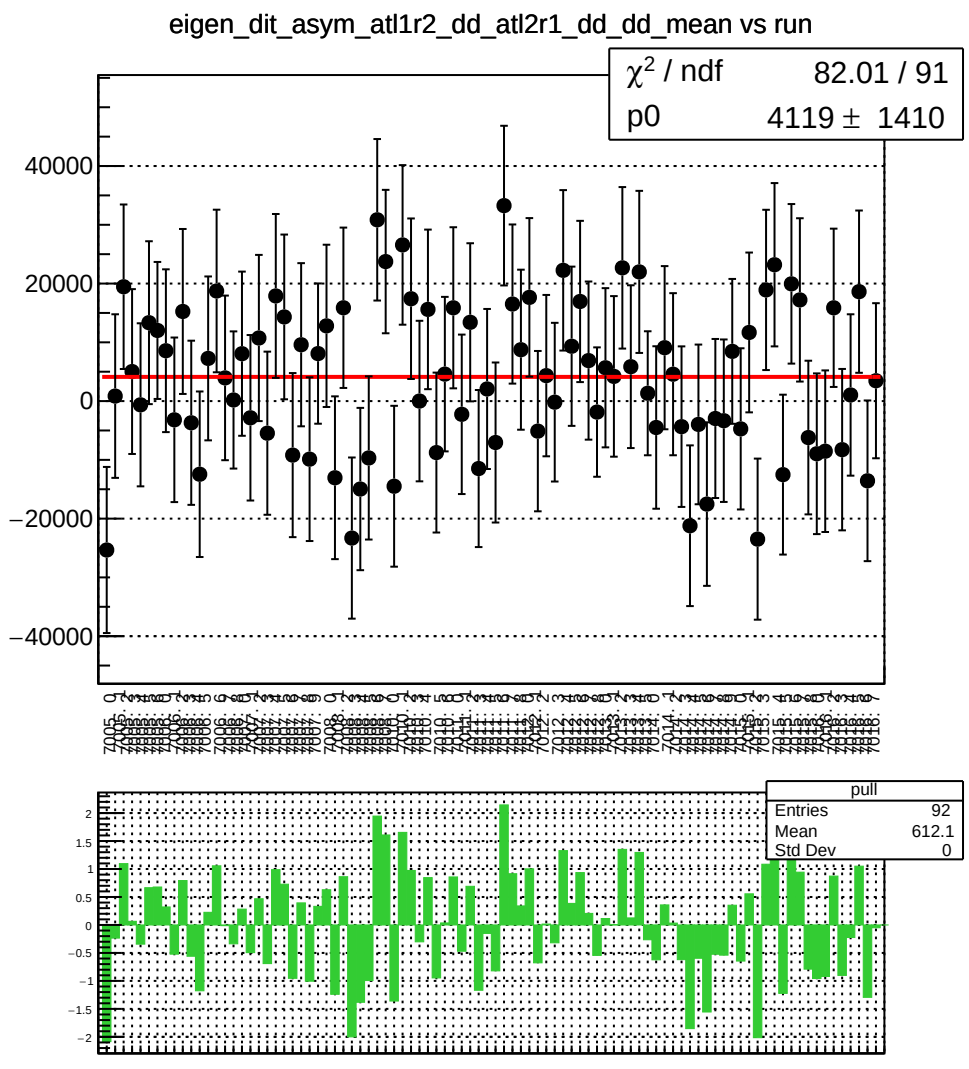

pull1D
Entries 92
Mean −0.002298
Std Dev 0.9441
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

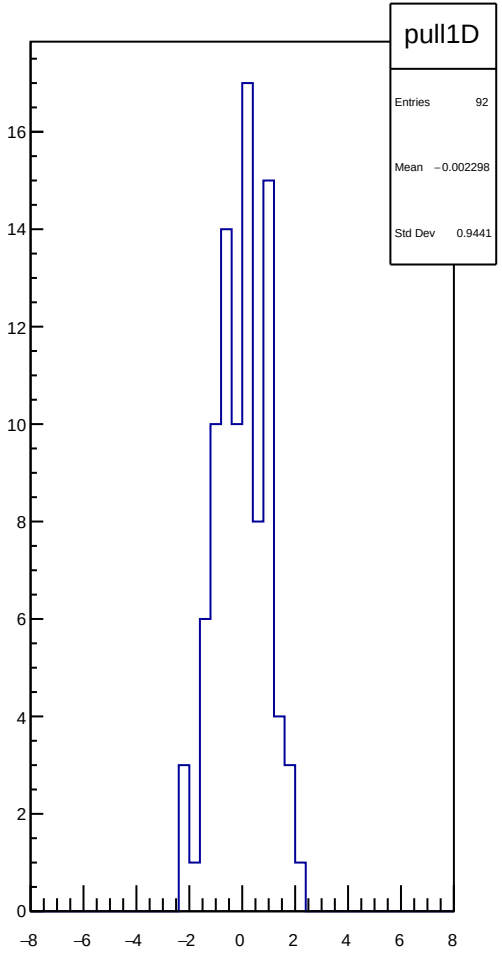

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 273.5 / 91
p0 1306 ± 0.9969
1360
1340
1320
1300
1280
1260

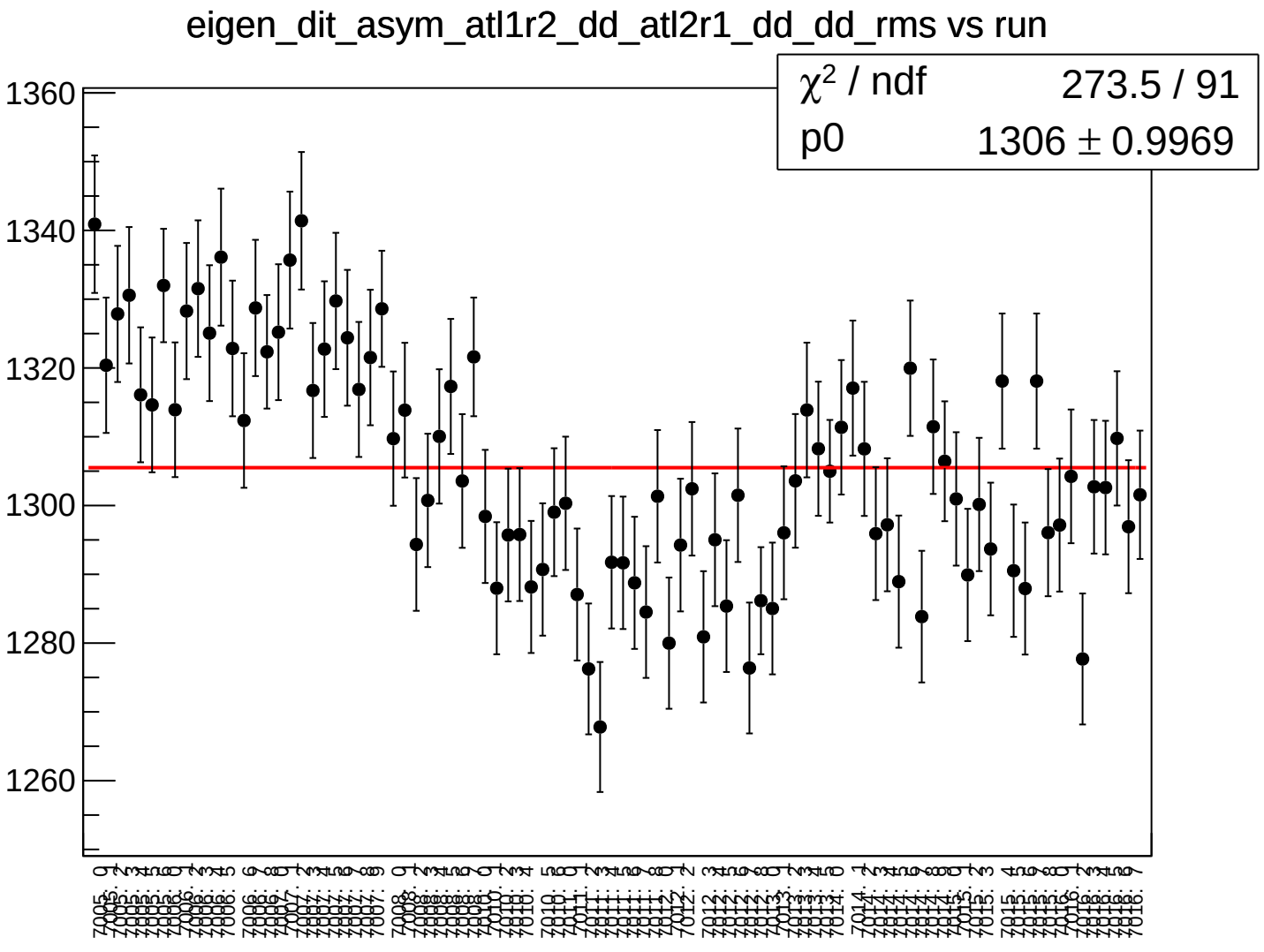

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.79 / 91
p0 1.264e+04 ± 4807
pull
Entries 92
Mean 730.6
Std Dev 0

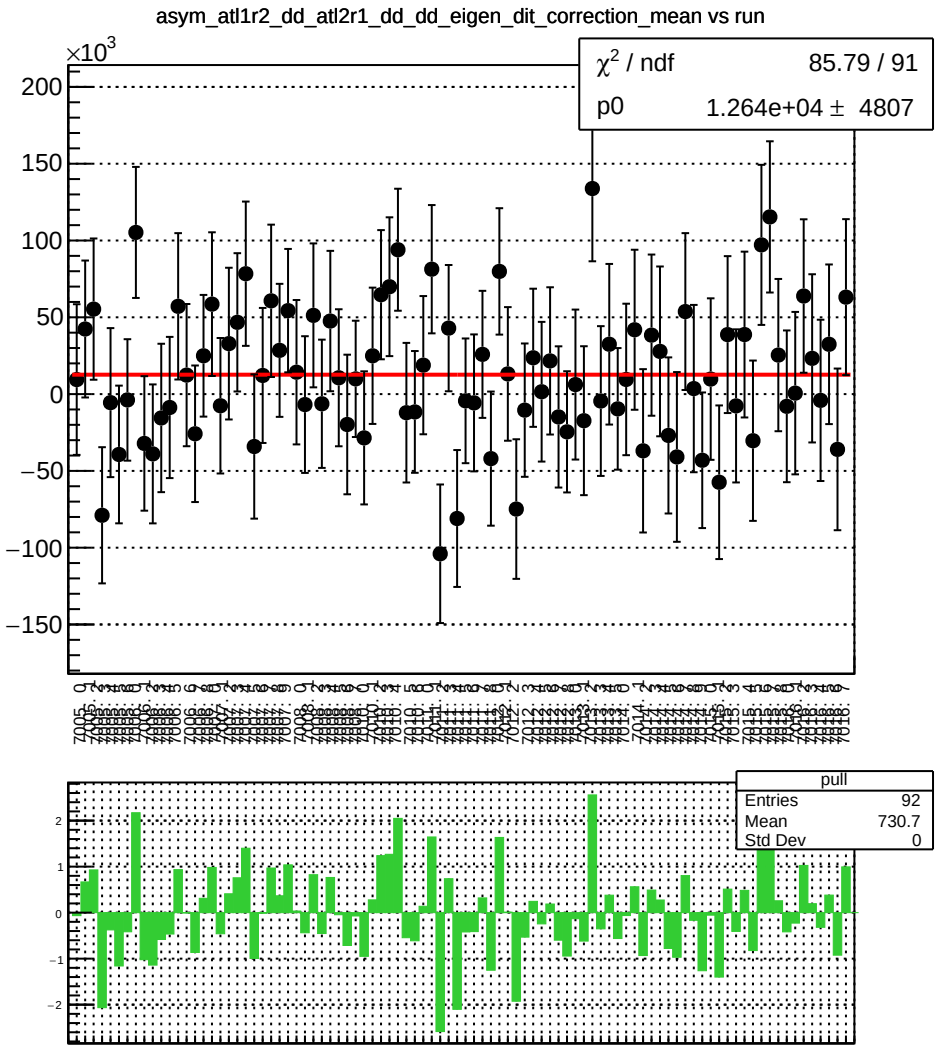

pull1D
Entries 92
Mean 0.0006674
Std Dev 0.9656

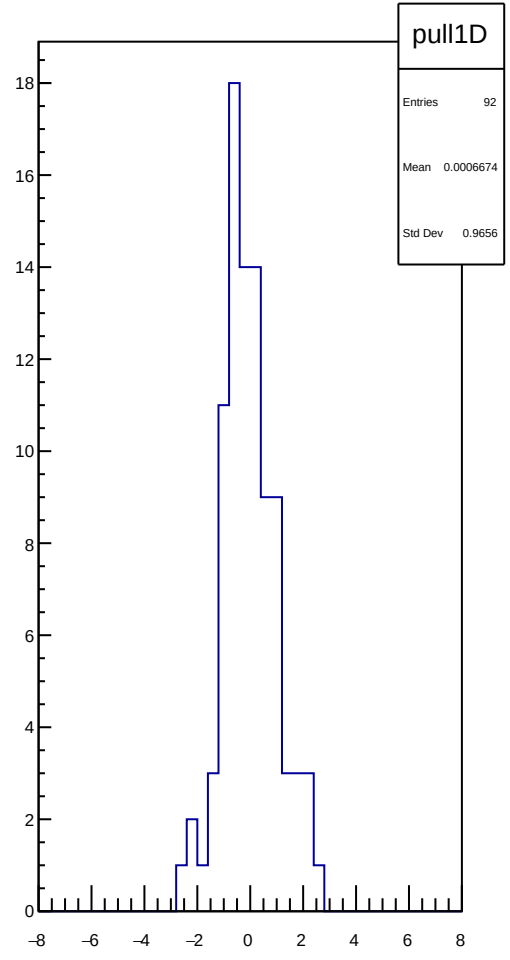

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 91
p0 4437 ± 3.399
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

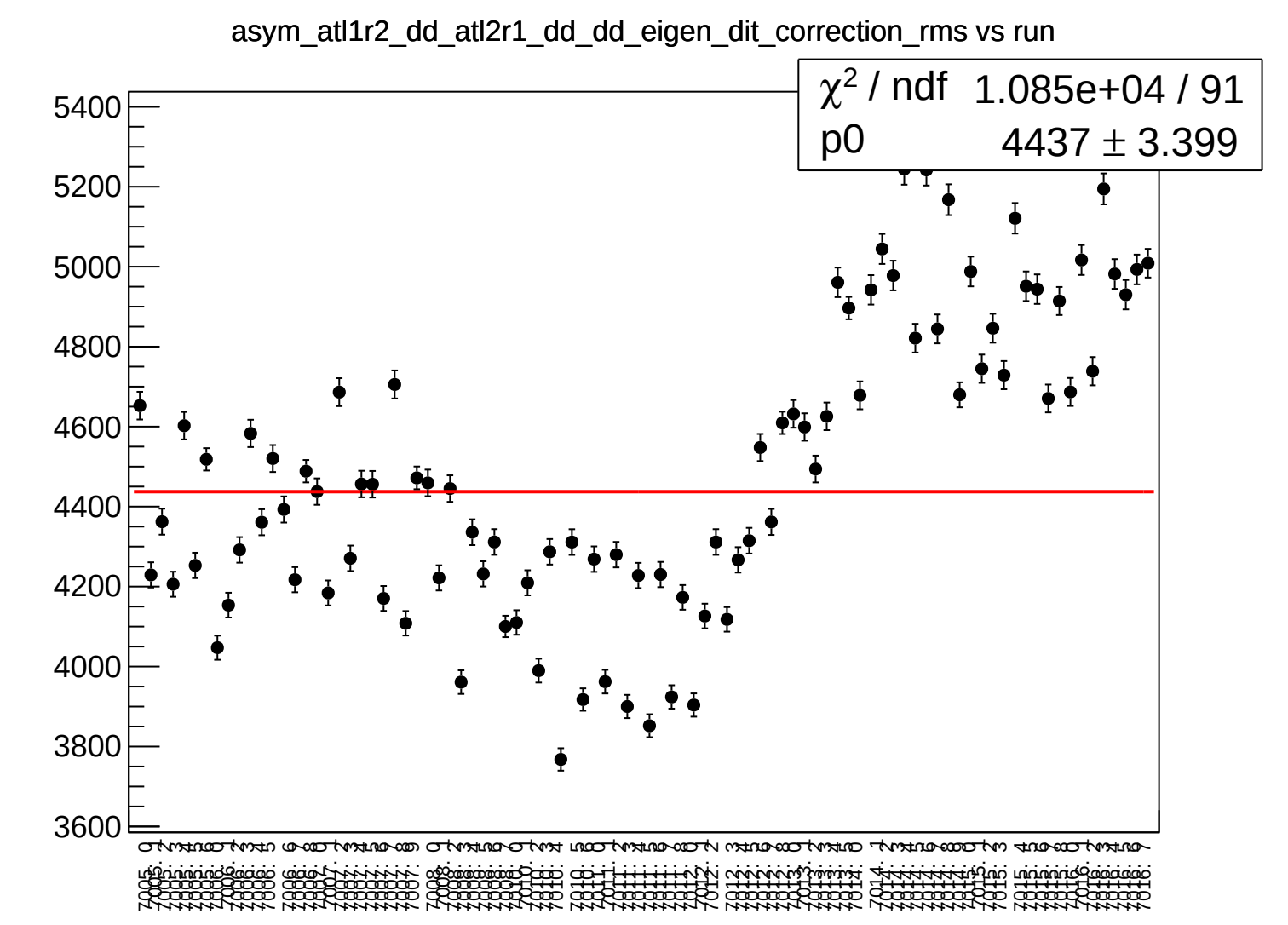

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 82.01 / 91
p0 4119 ± 1410
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 612.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

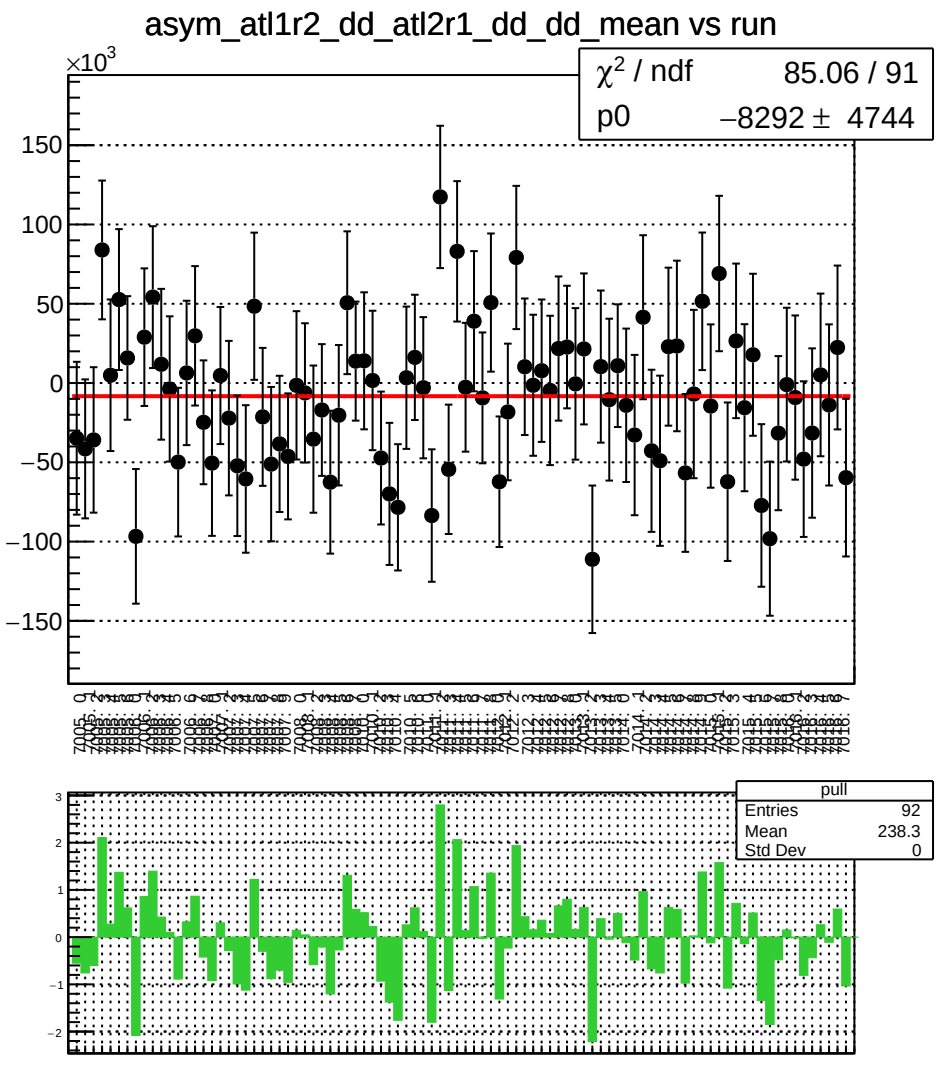

pull1D
Entries 92
Mean −0.002298
Std Dev 0.9441
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

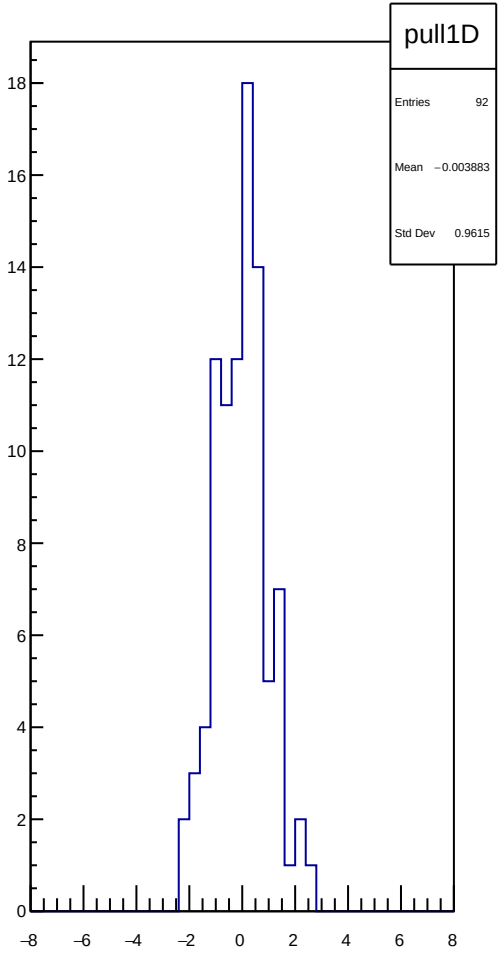

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 273.5 / 91
p0 1306 ± 0.9969
1360
1340
1320
1300
1280
1260

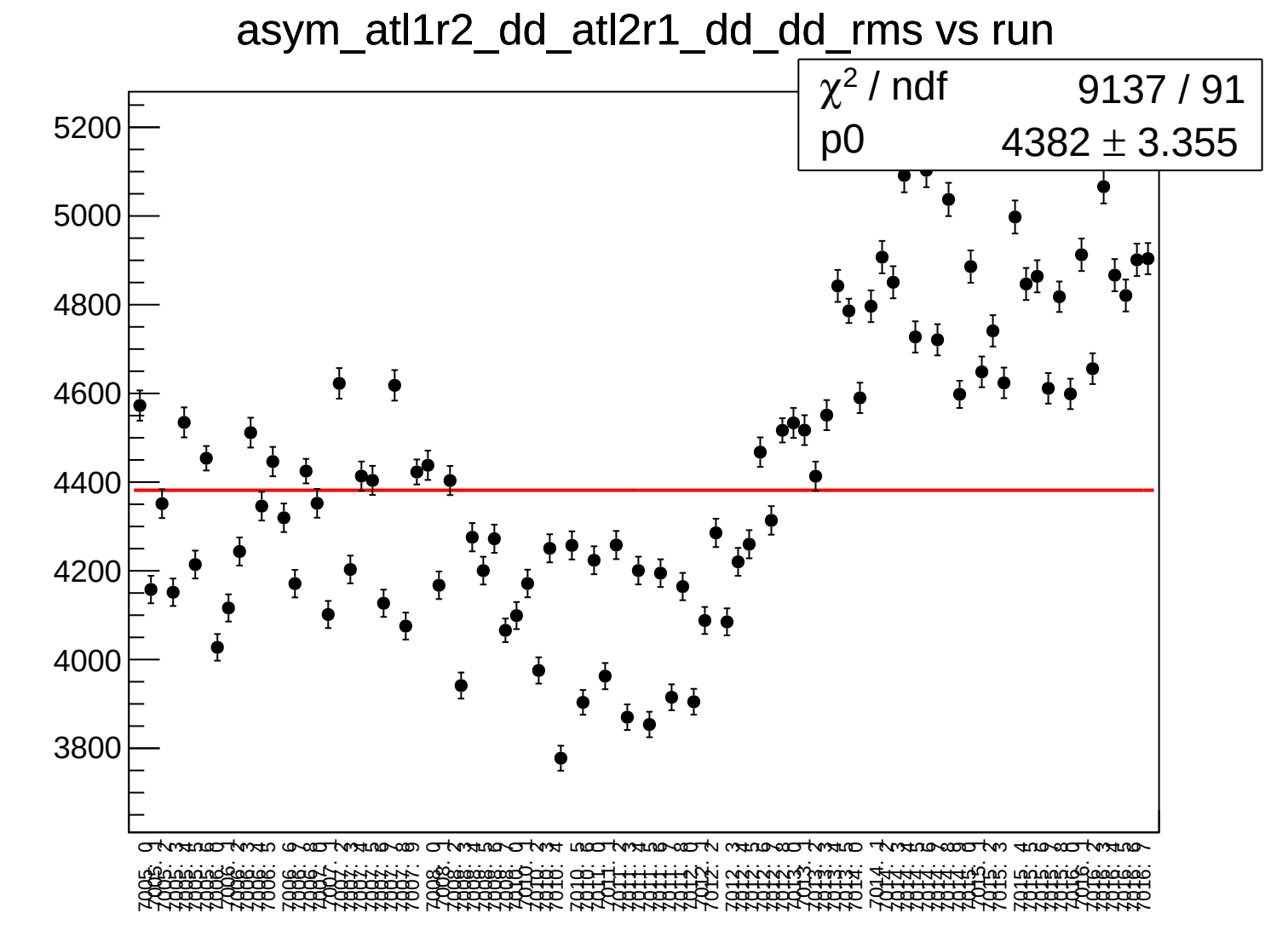

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.79 / 91
p0 1.264e+04 ± 4807
pull
Entries 92
Mean 730.7
Std Dev 0

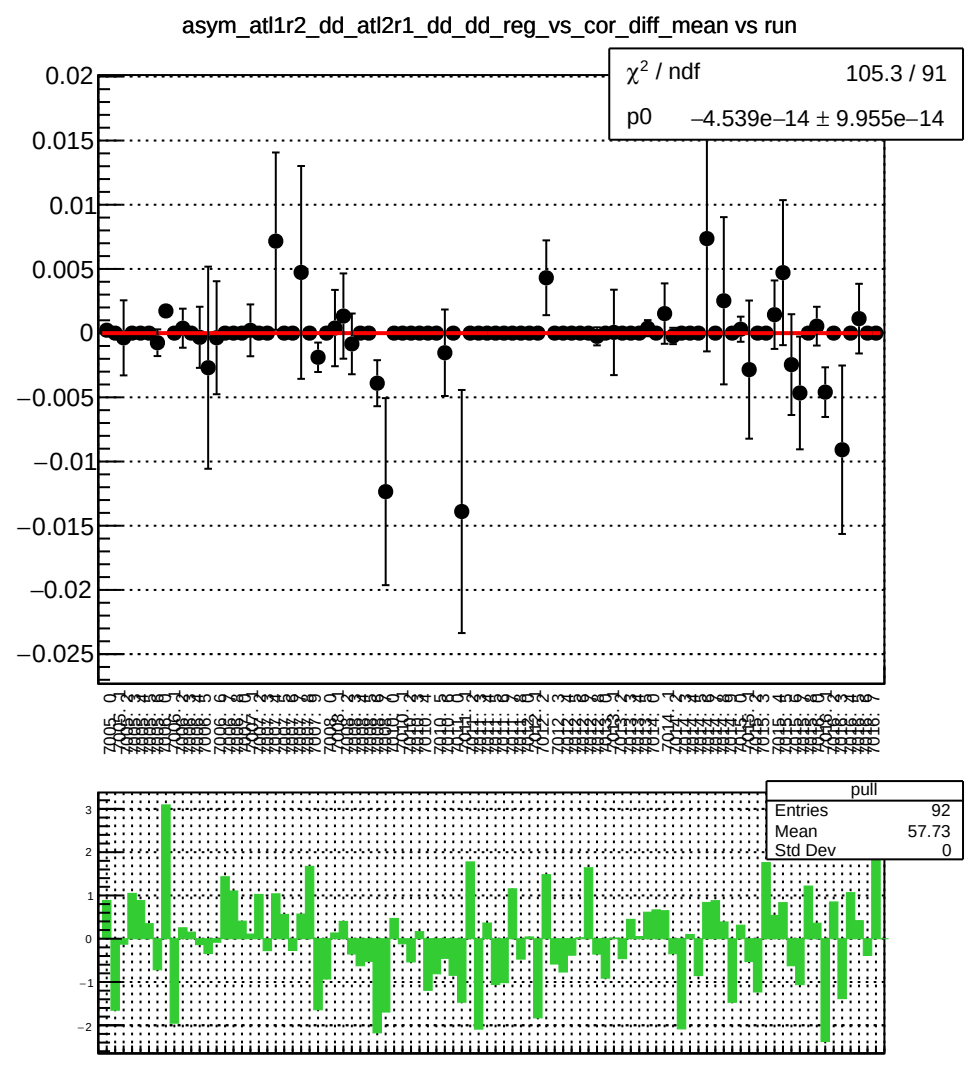

pull1D
Entries 92
Mean 0.0006674
Std Dev 0.9656

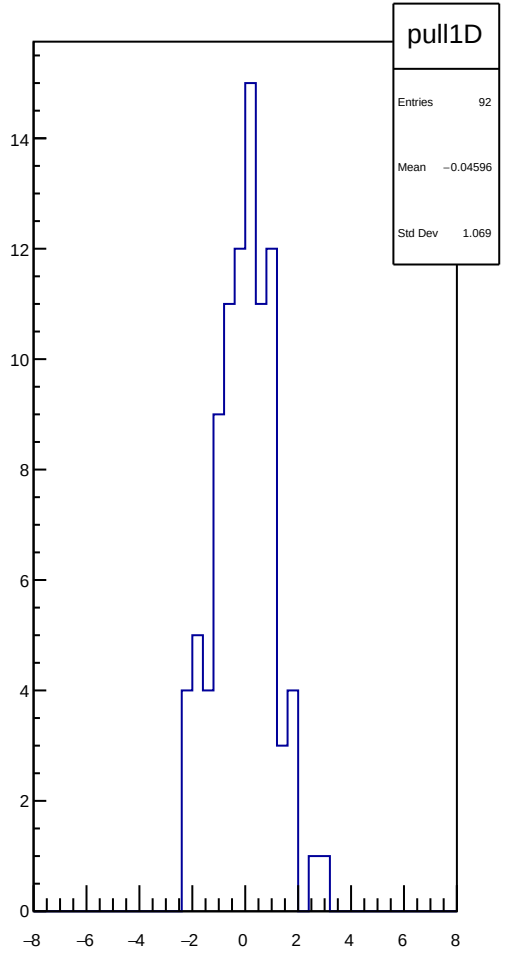

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 91
p0 4437 ± 3.399
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

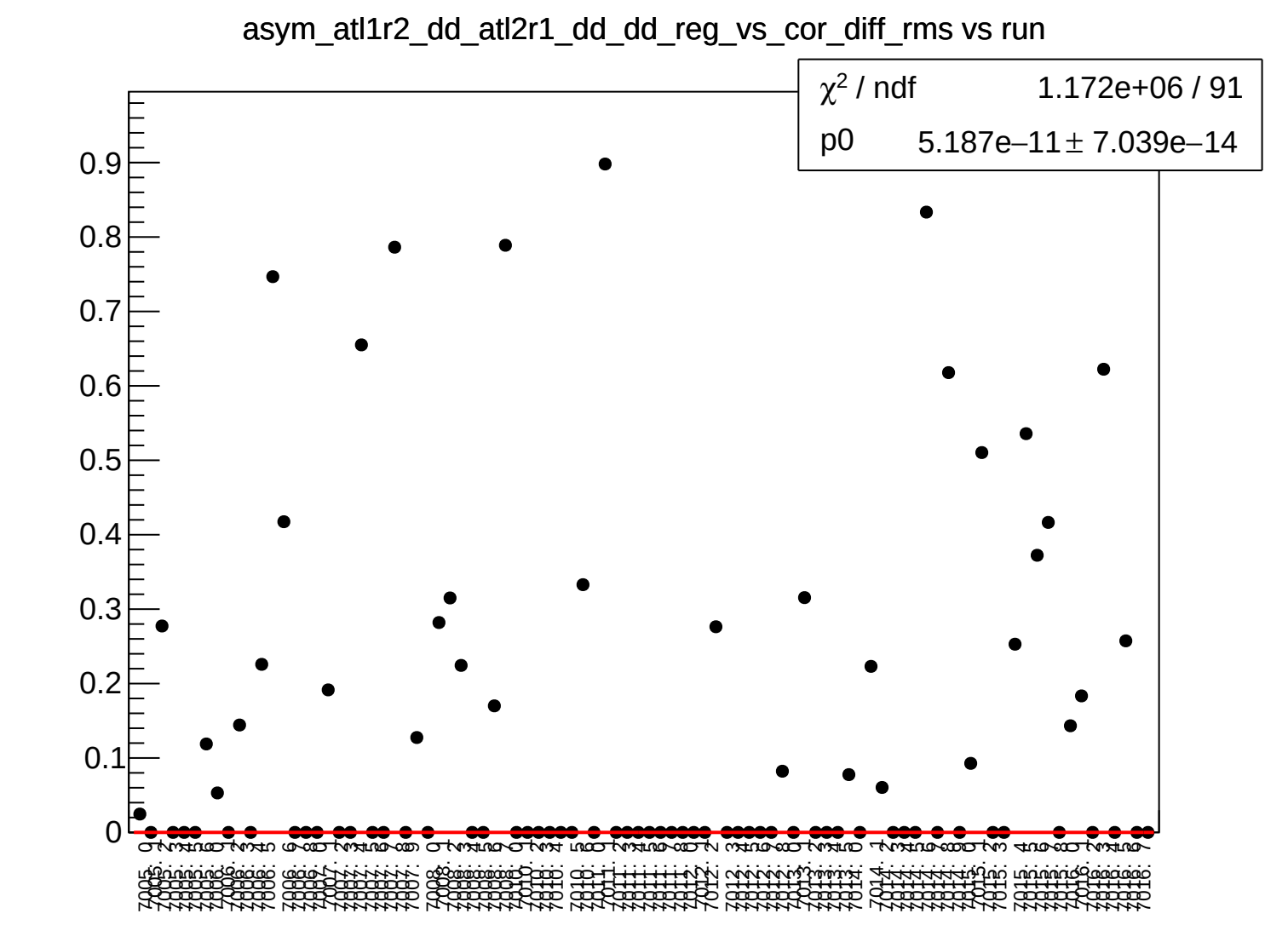

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 85.06 / 91
p0 −8292 ± 4744
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 238.3
Std Dev 0
3
2
1
0
−1
−2

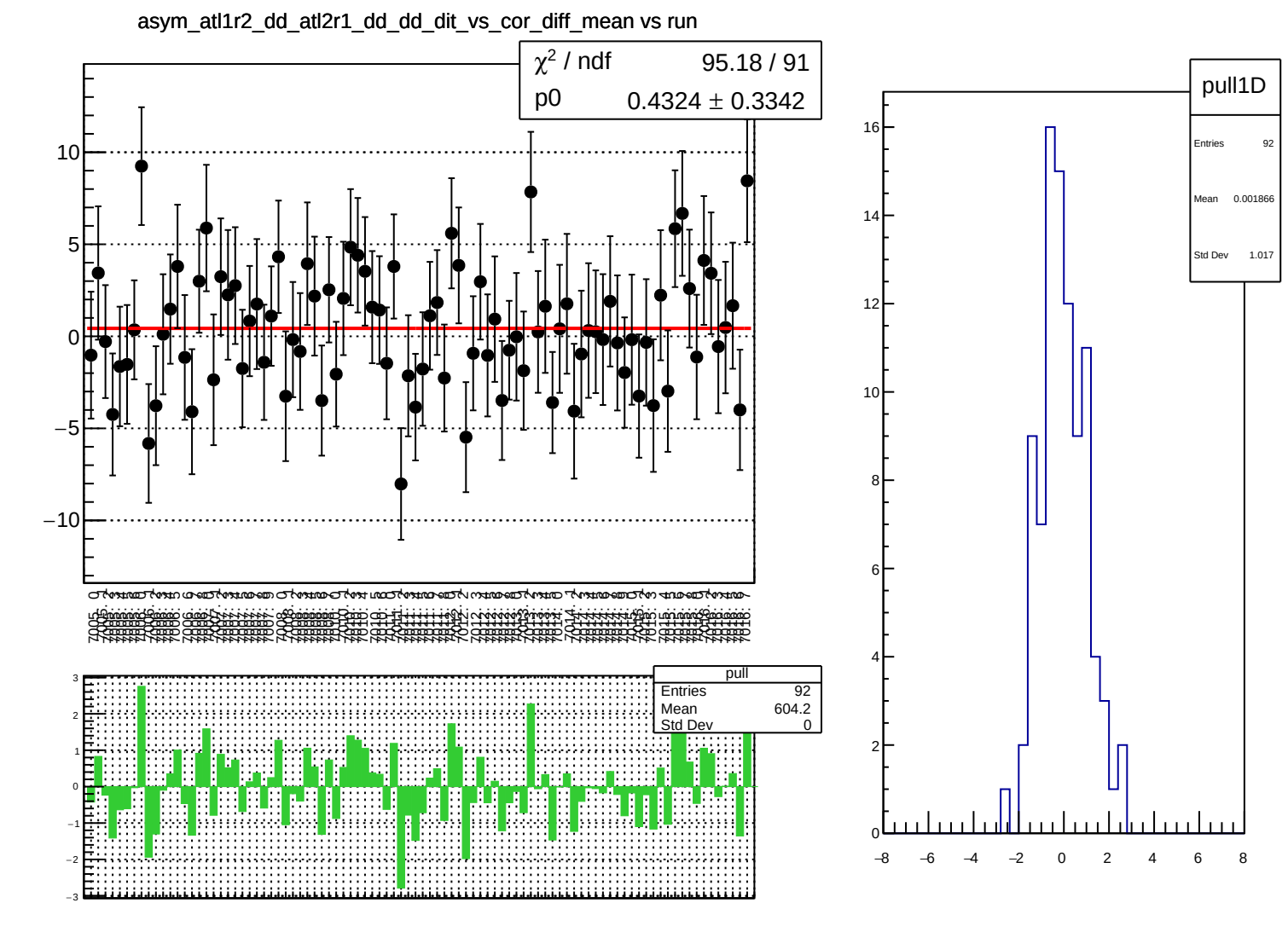

pull1D
Entries 92
Mean −0.003883
Std Dev 0.9615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

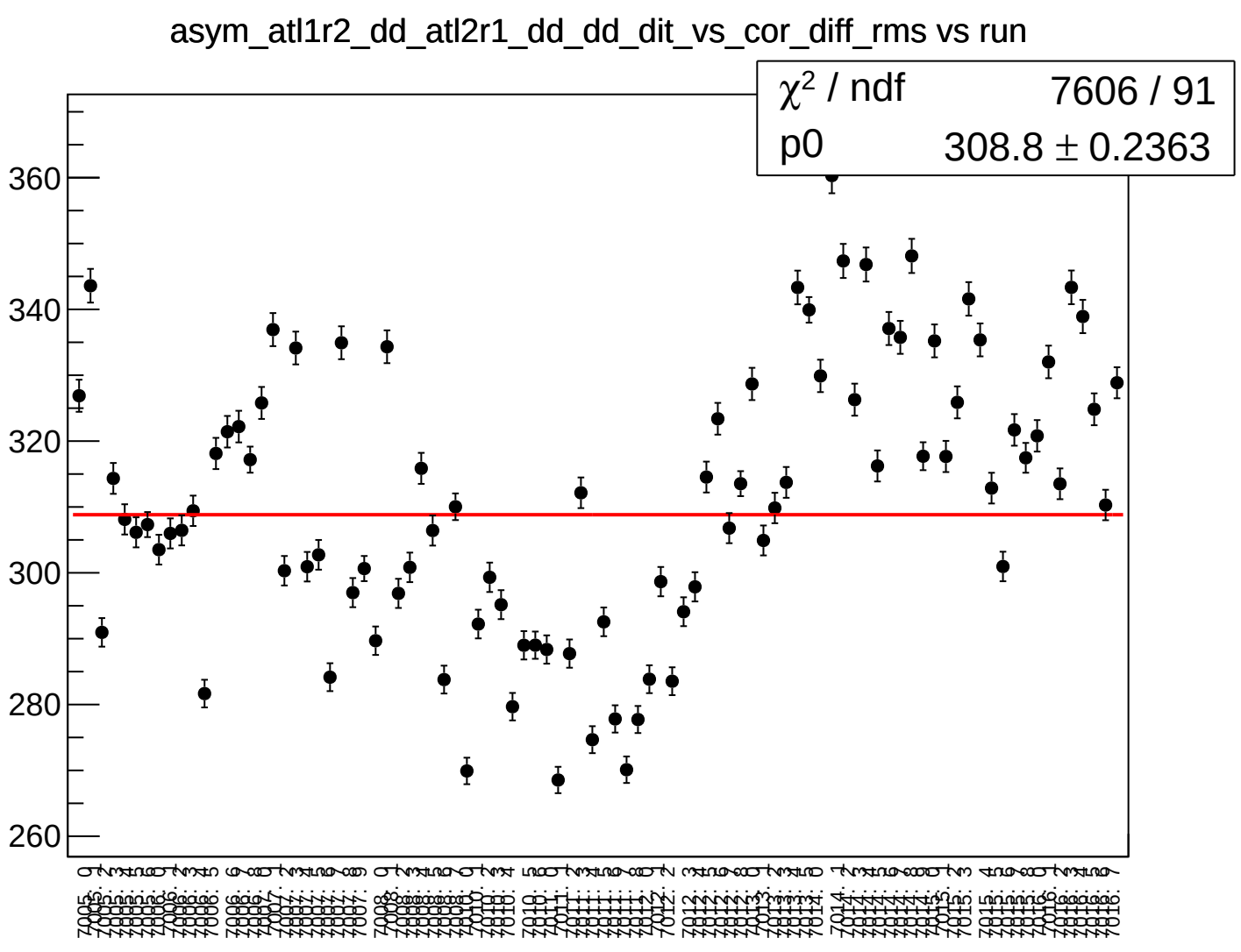

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
$\chi^2$ / ndf 9137 / 91
p0 4382 ± 3.355
5200
5000
4800
4600
4400
4200
4000
3800

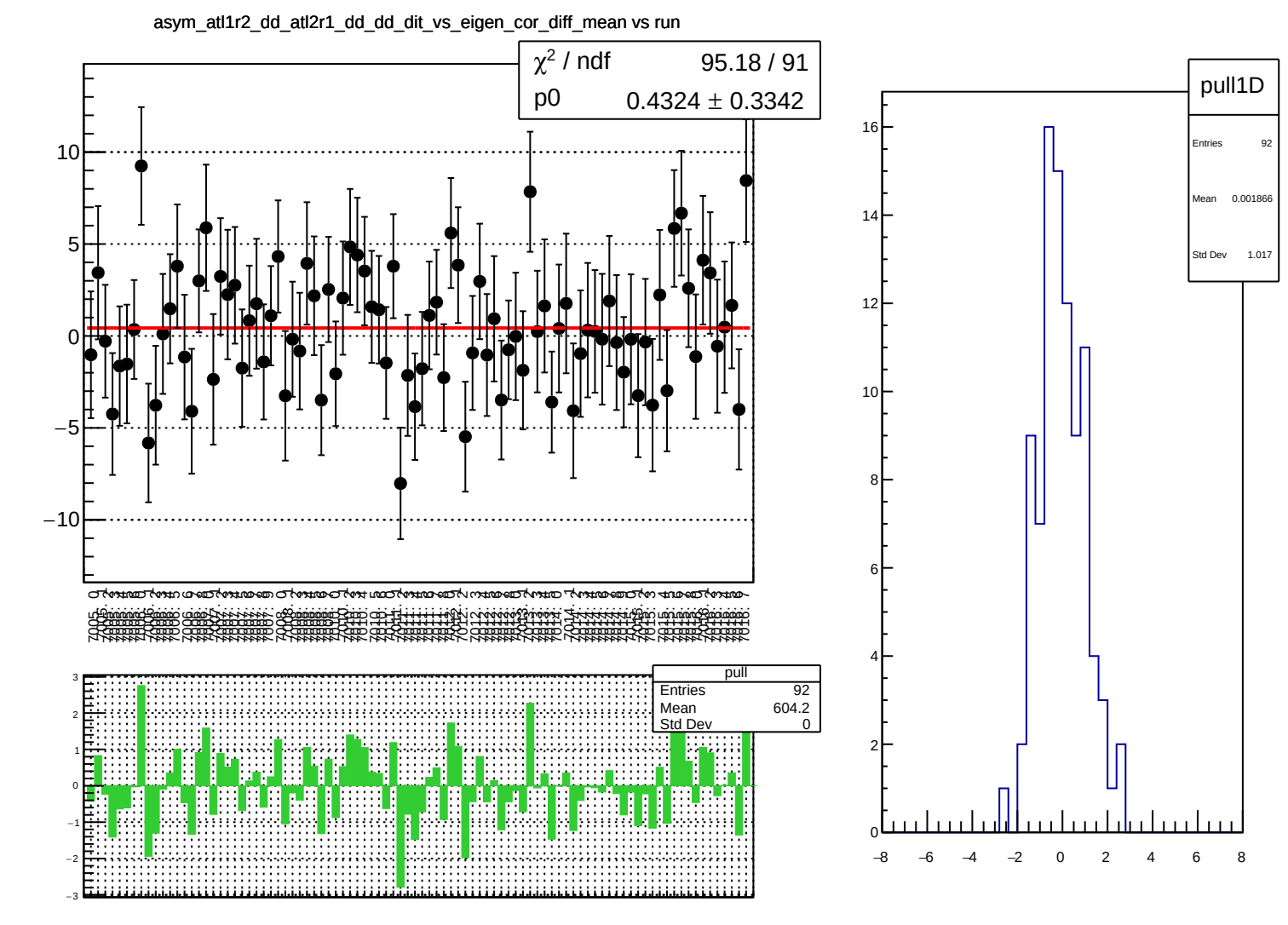

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.3 / 91
p0 −4.539e−14 ± 9.955e−14
pull
Entries 92
Mean 57.73
Std Dev 0

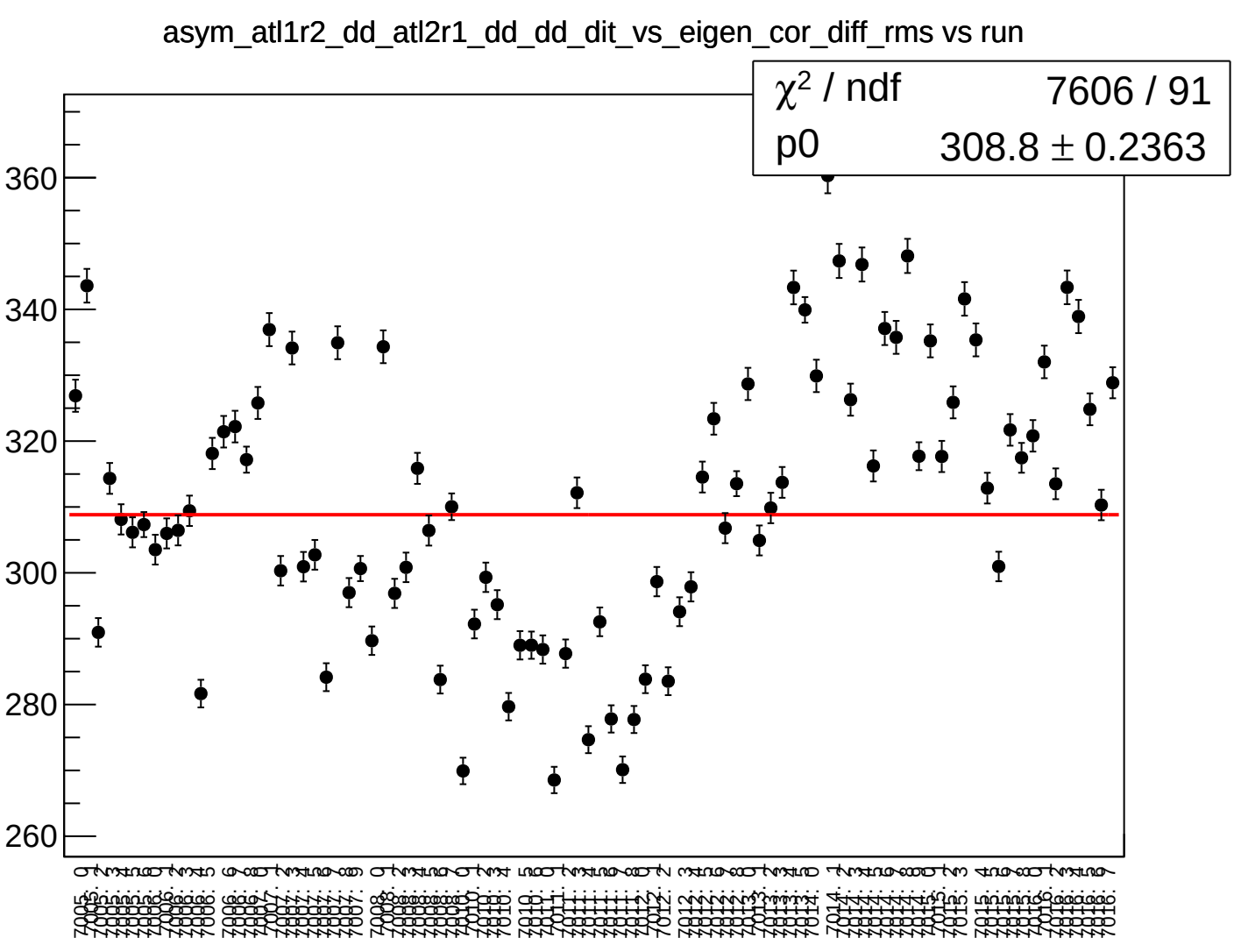

pull1D
Entries 92
Mean −0.04596
Std Dev 1.069

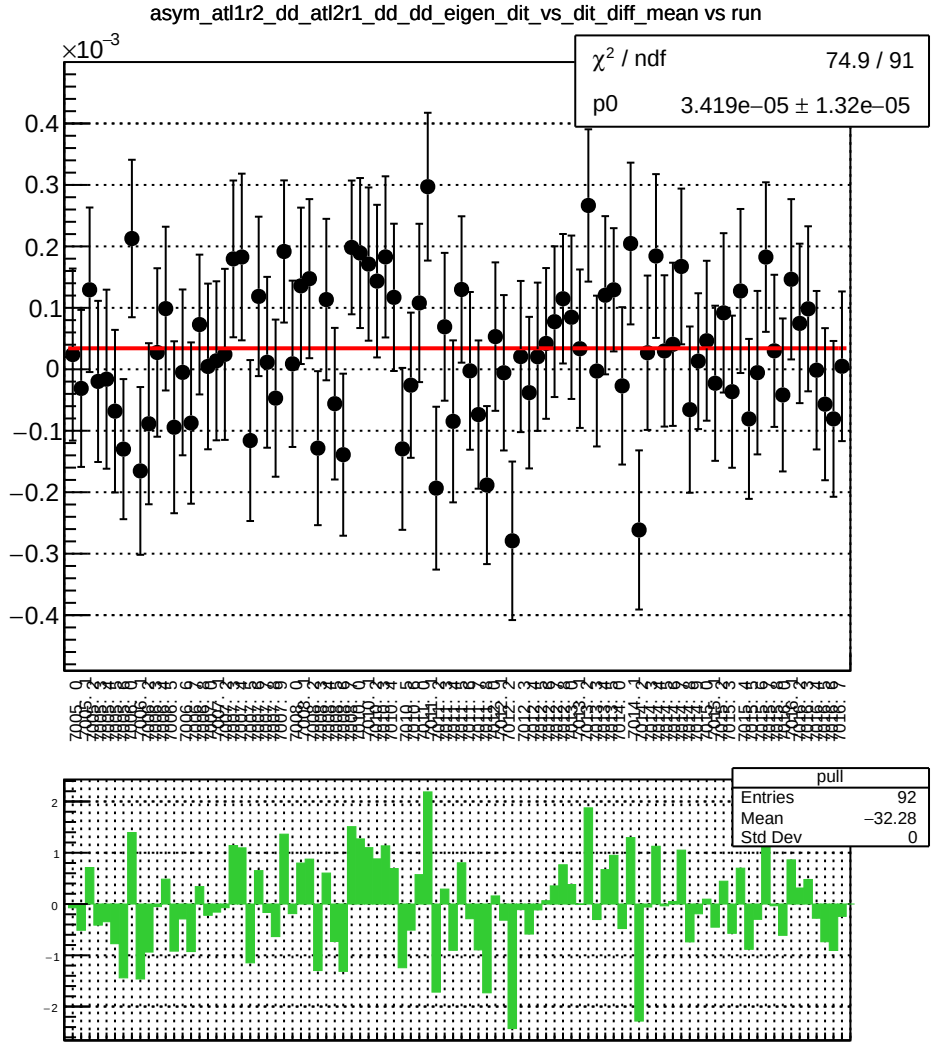

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.172e+06 / 91
p0 5.187e−11 ± 7.039e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

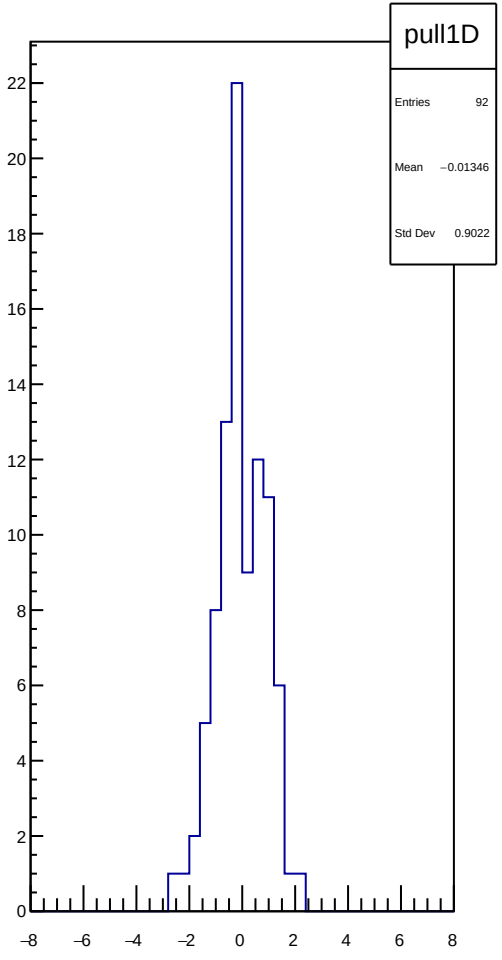

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.2
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

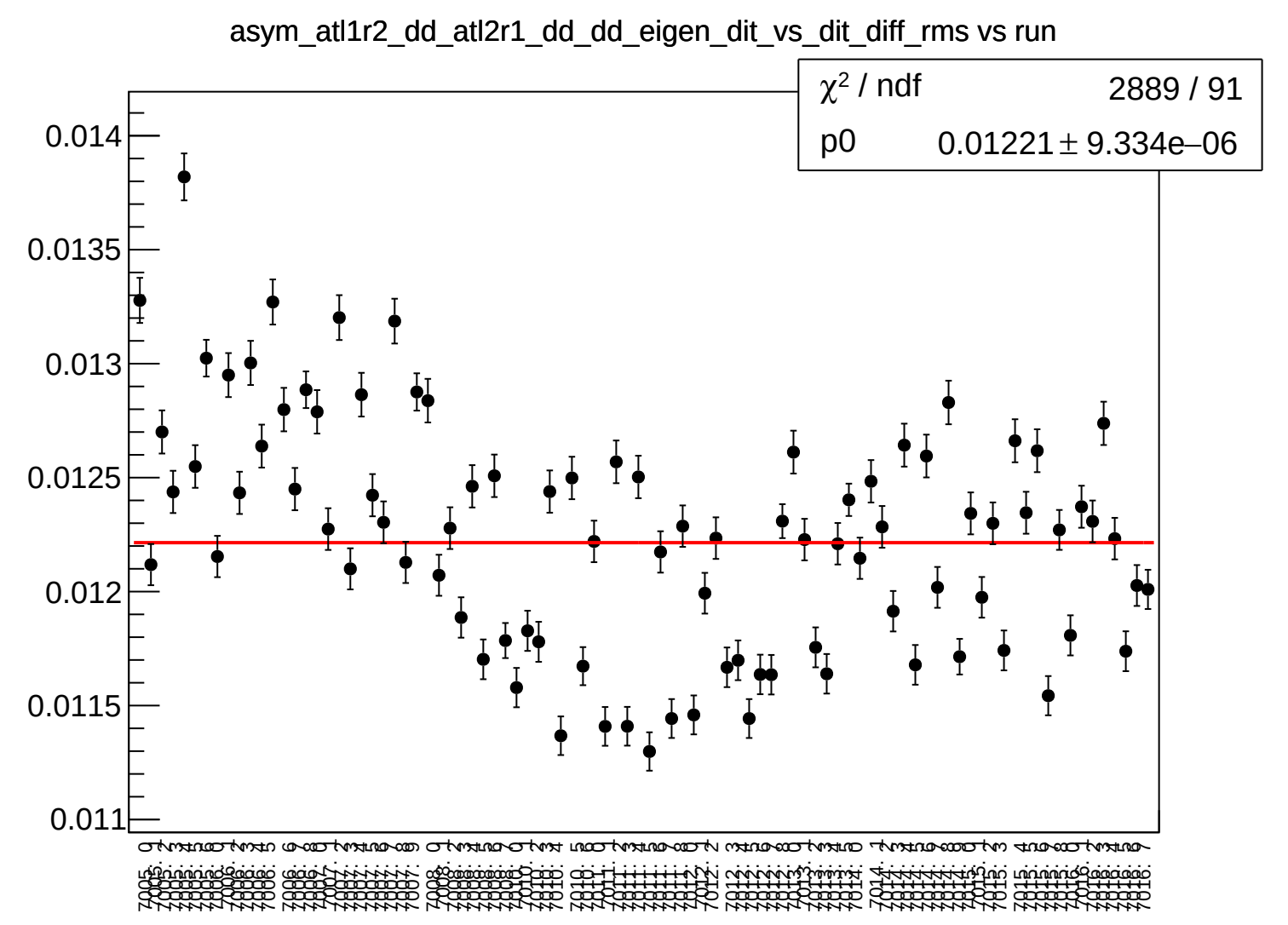

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

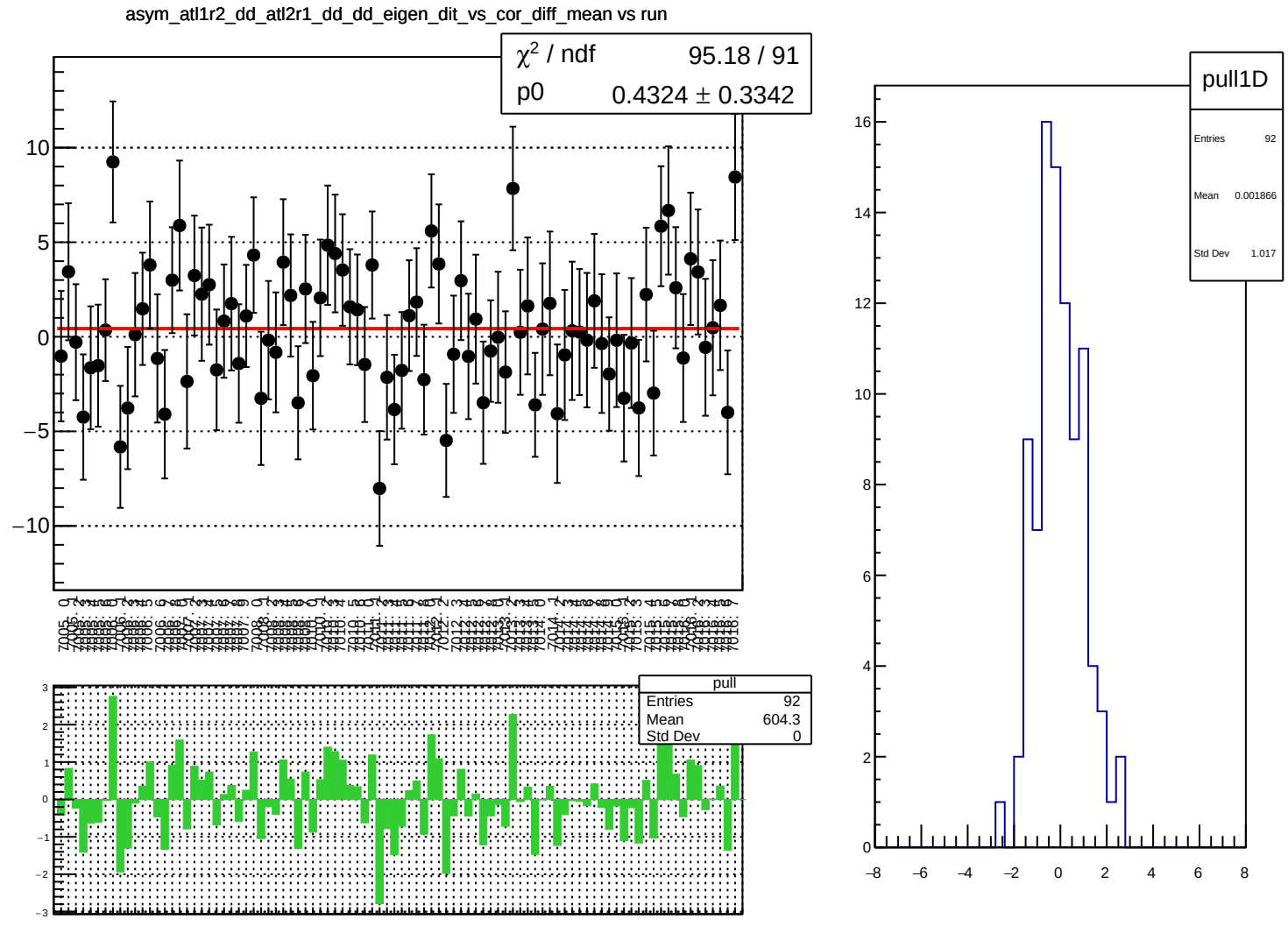

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.2
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

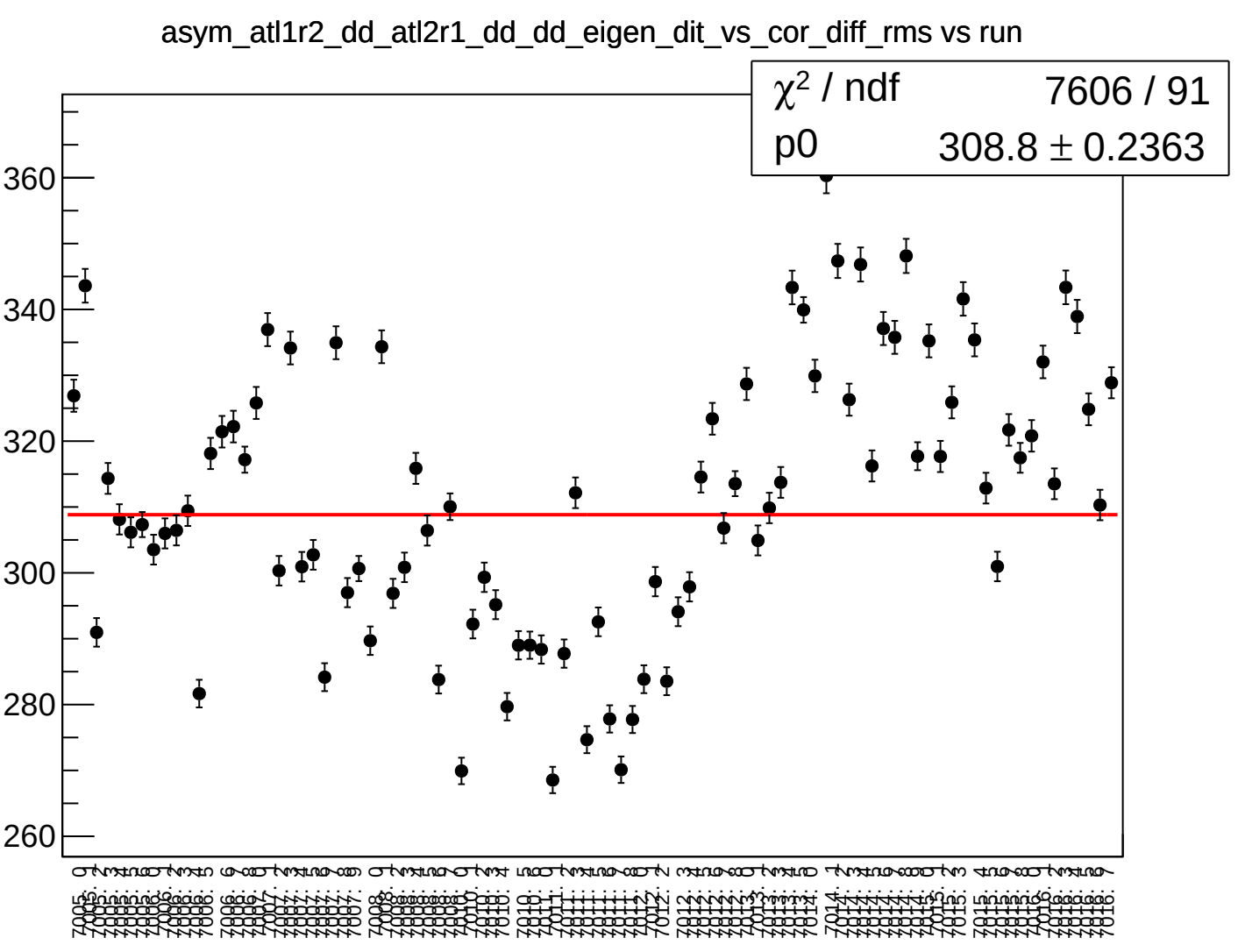

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

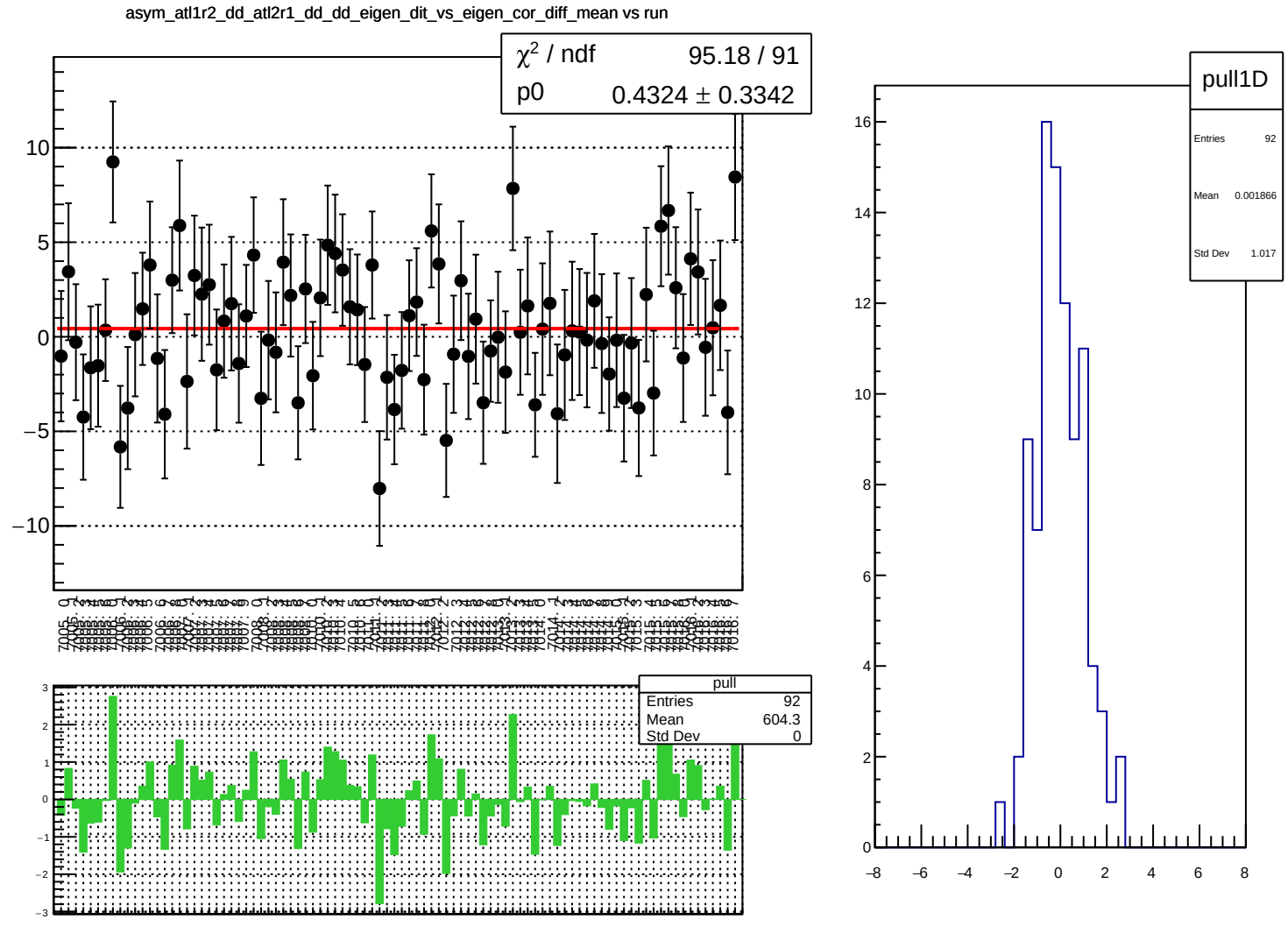

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.9 / 91
p0 3.419e−05 ± 1.32e−05
pull
Entries 92
Mean −32.28
Std Dev 0

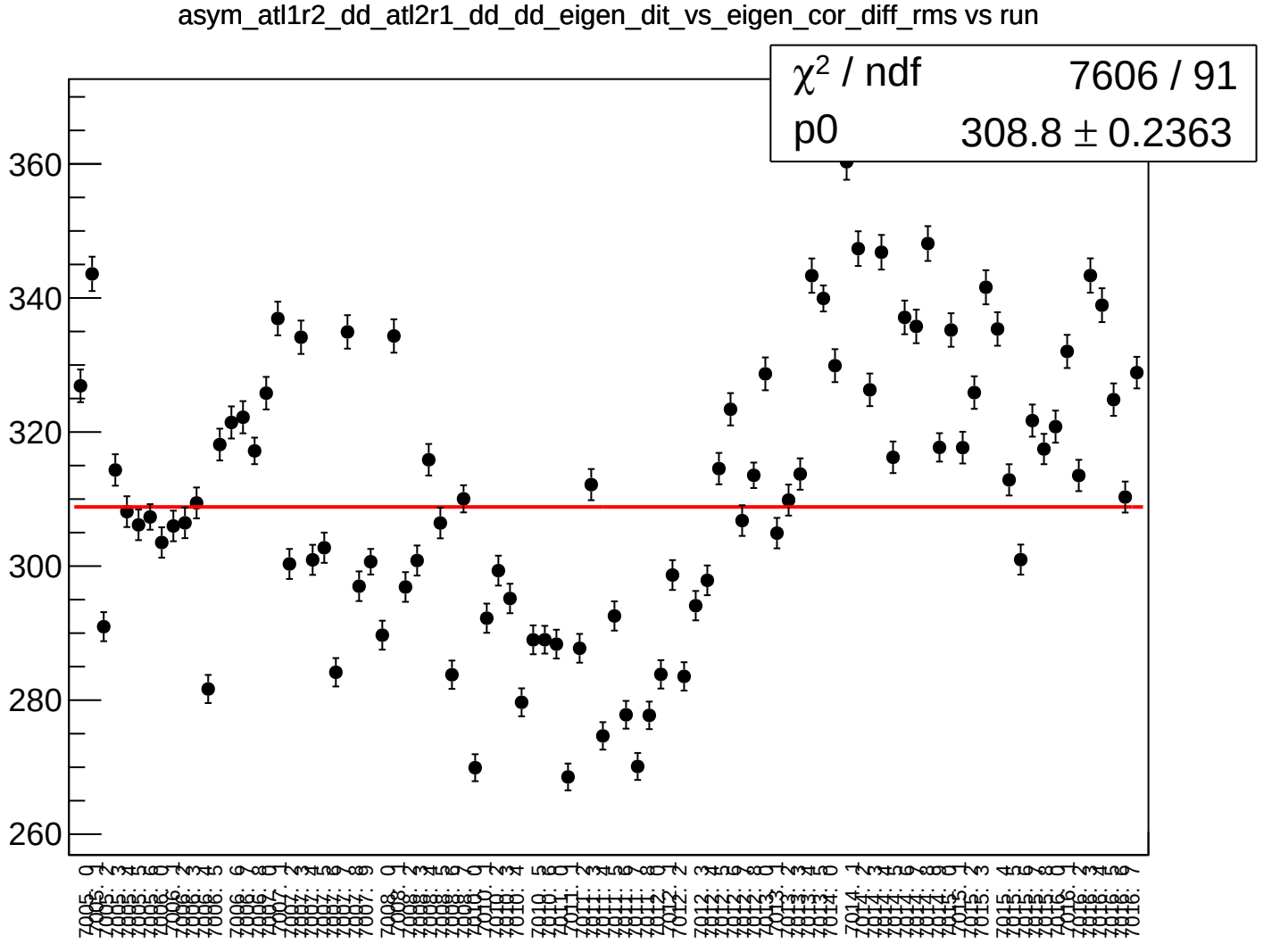

pull1D
Entries 92
Mean −0.01346
Std Dev 0.9022

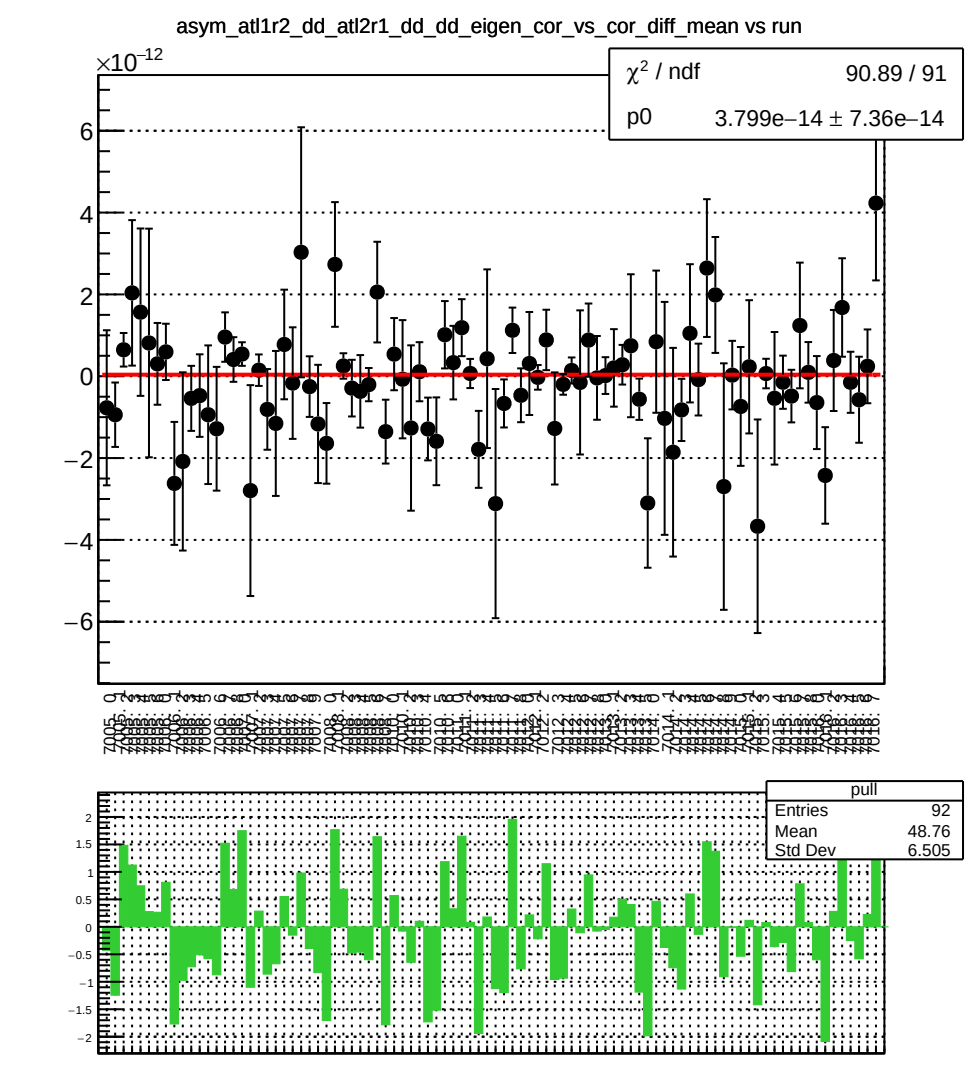

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2889 / 91
p0 0.01221 ± 9.334e−06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

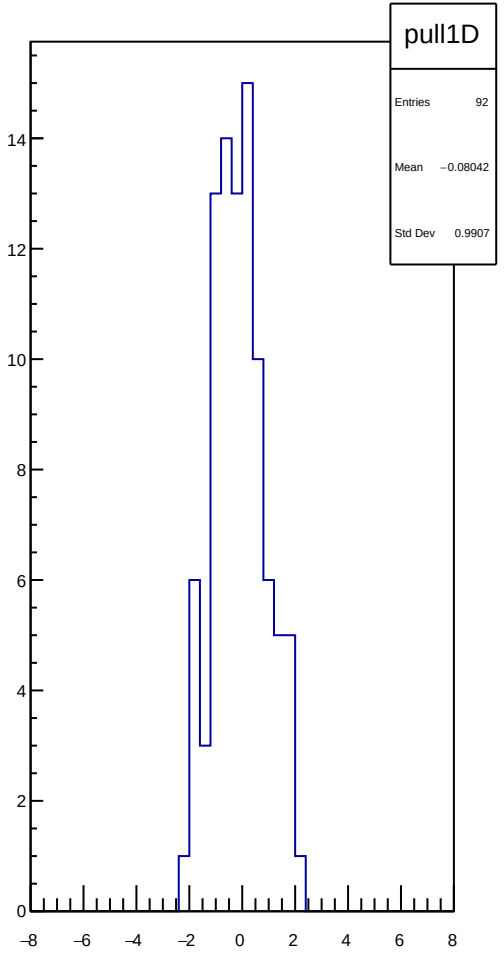

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.3
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

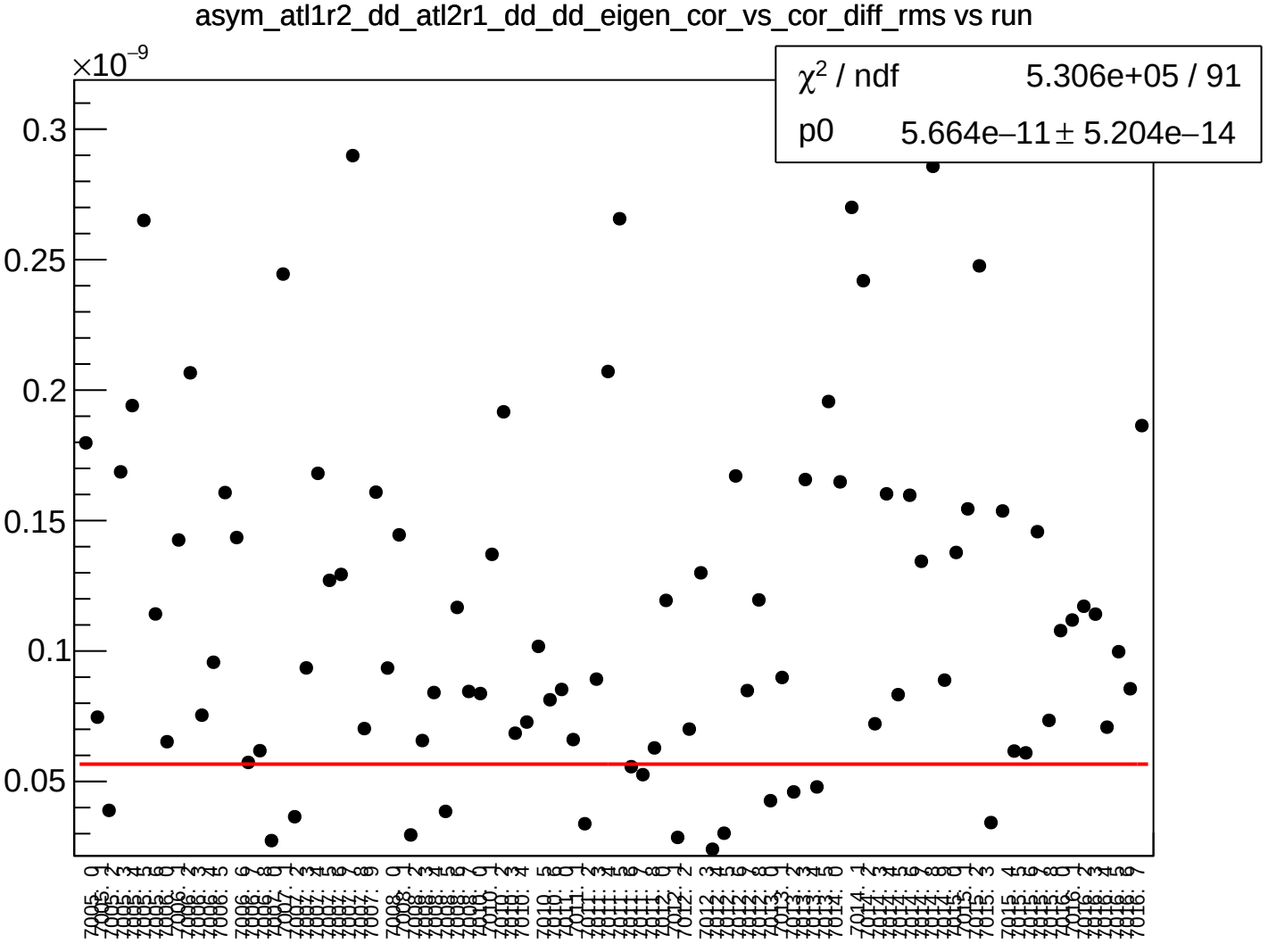

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

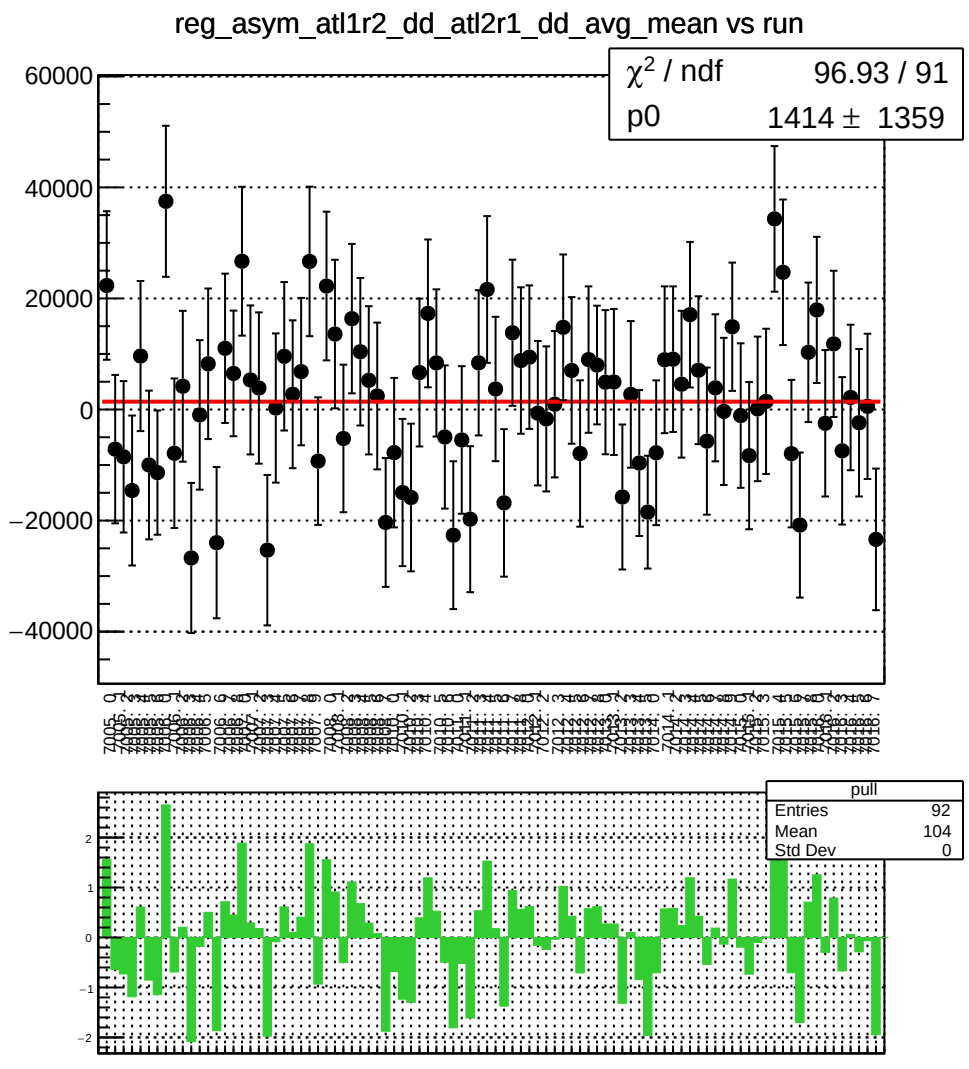

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.18 / 91
p0 0.4324 ± 0.3342
pull
Entries 92
Mean 604.3
Std Dev 0
pull1D
Entries 92
Mean 0.001866
Std Dev 1.017

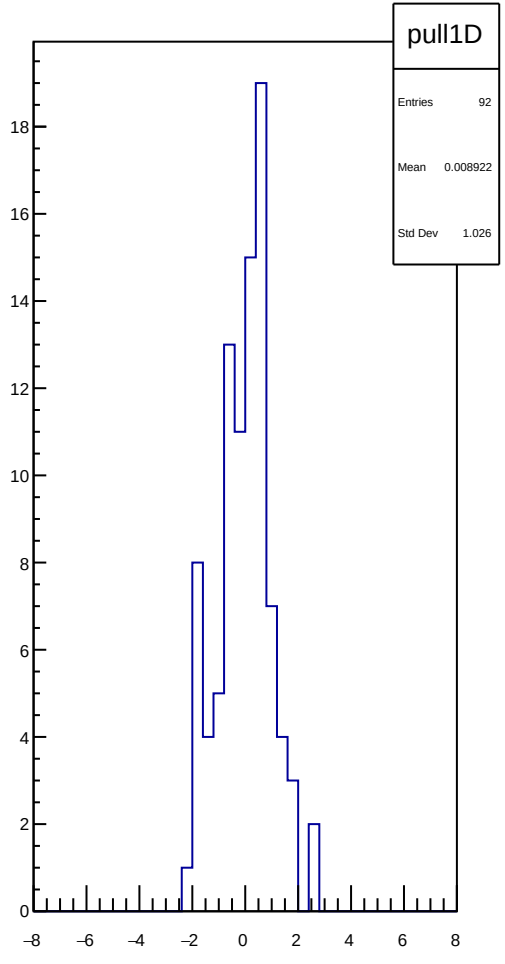

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7606 / 91
p0 308.8 ± 0.2363
360
340
320
300
280
260

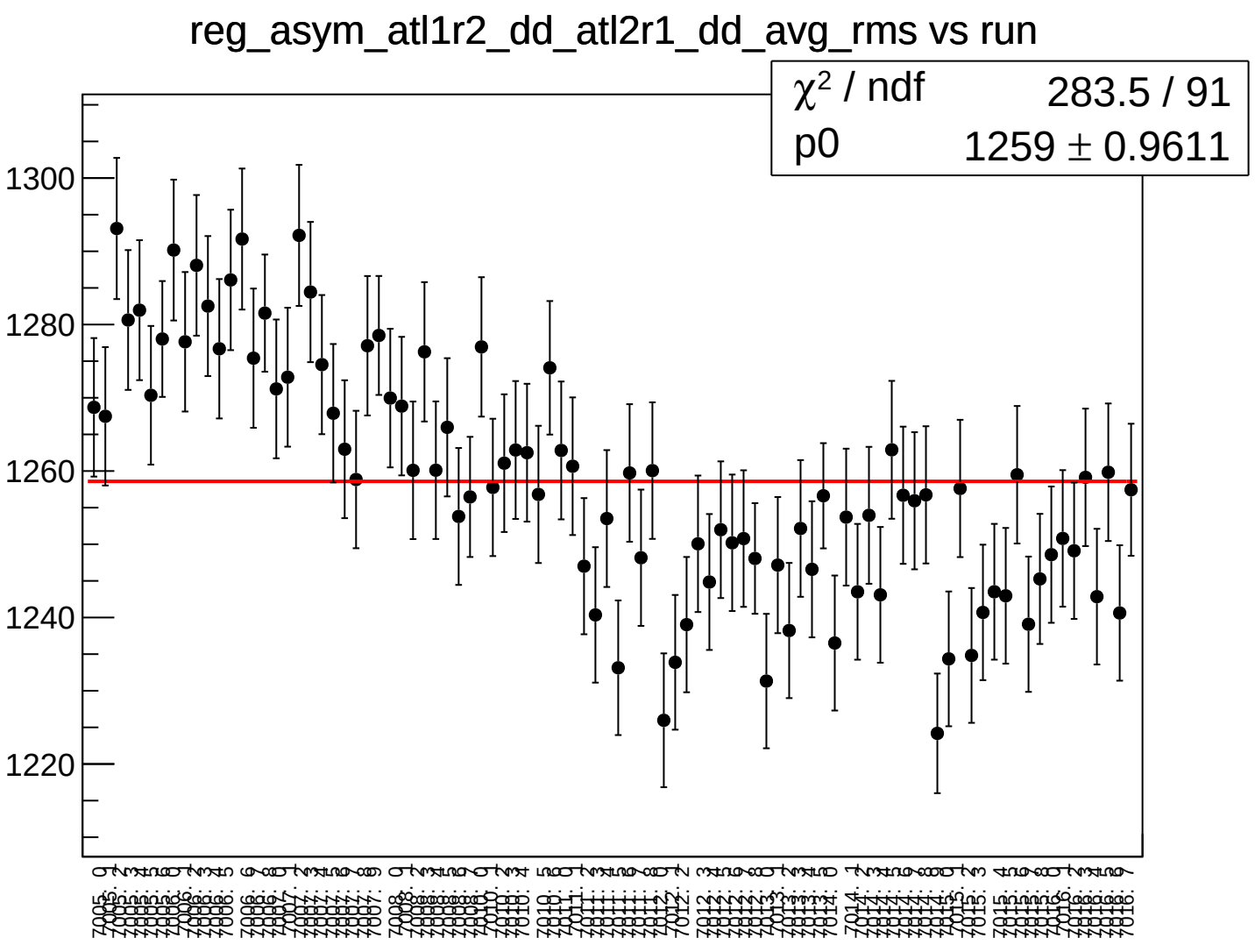

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.89 / 91
p0 3.799e−14 ± 7.36e−14
pull
Entries 92
Mean 48.76
Std Dev 6.505

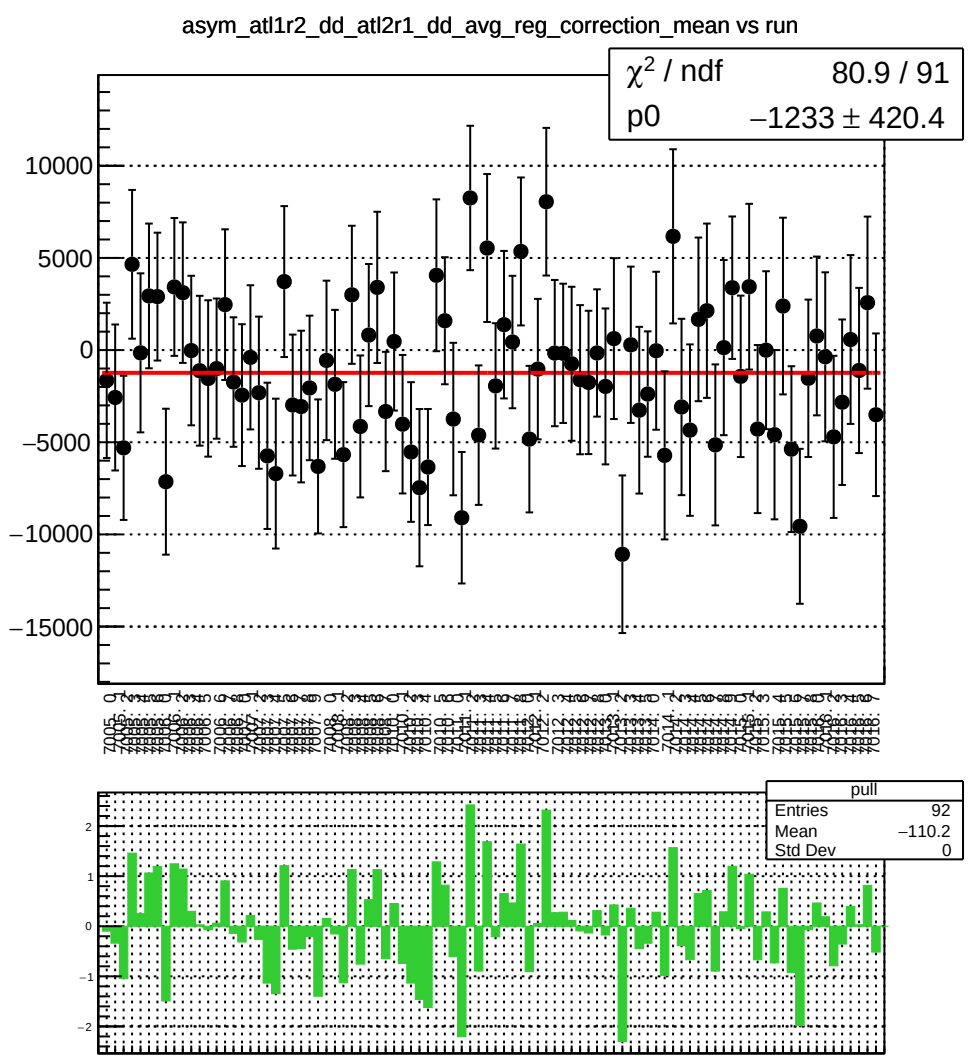

pull1D
Entries 92
Mean −0.08042
Std Dev 0.9907

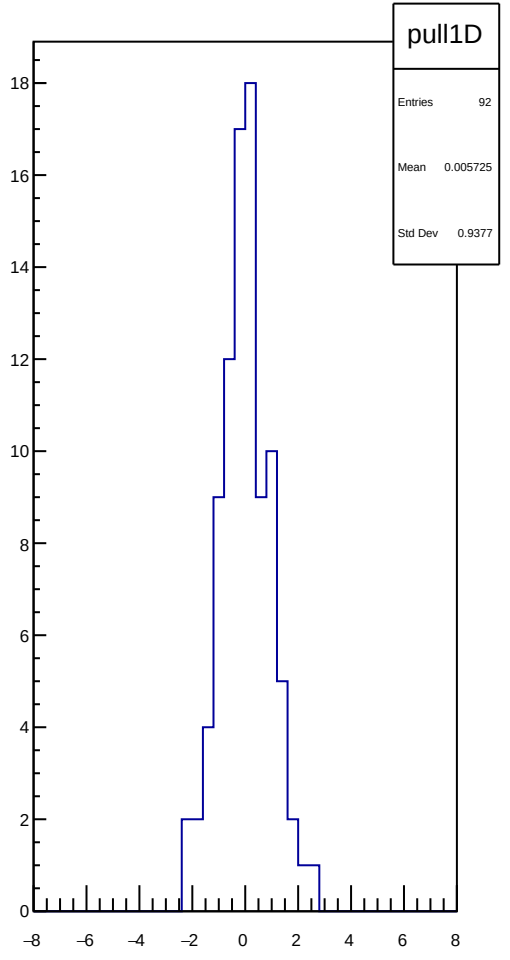

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.306e+05 / 91
p0 5.664e−11 ± 5.204e−14
0.3
0.25
0.2
0.15
0.1
0.05

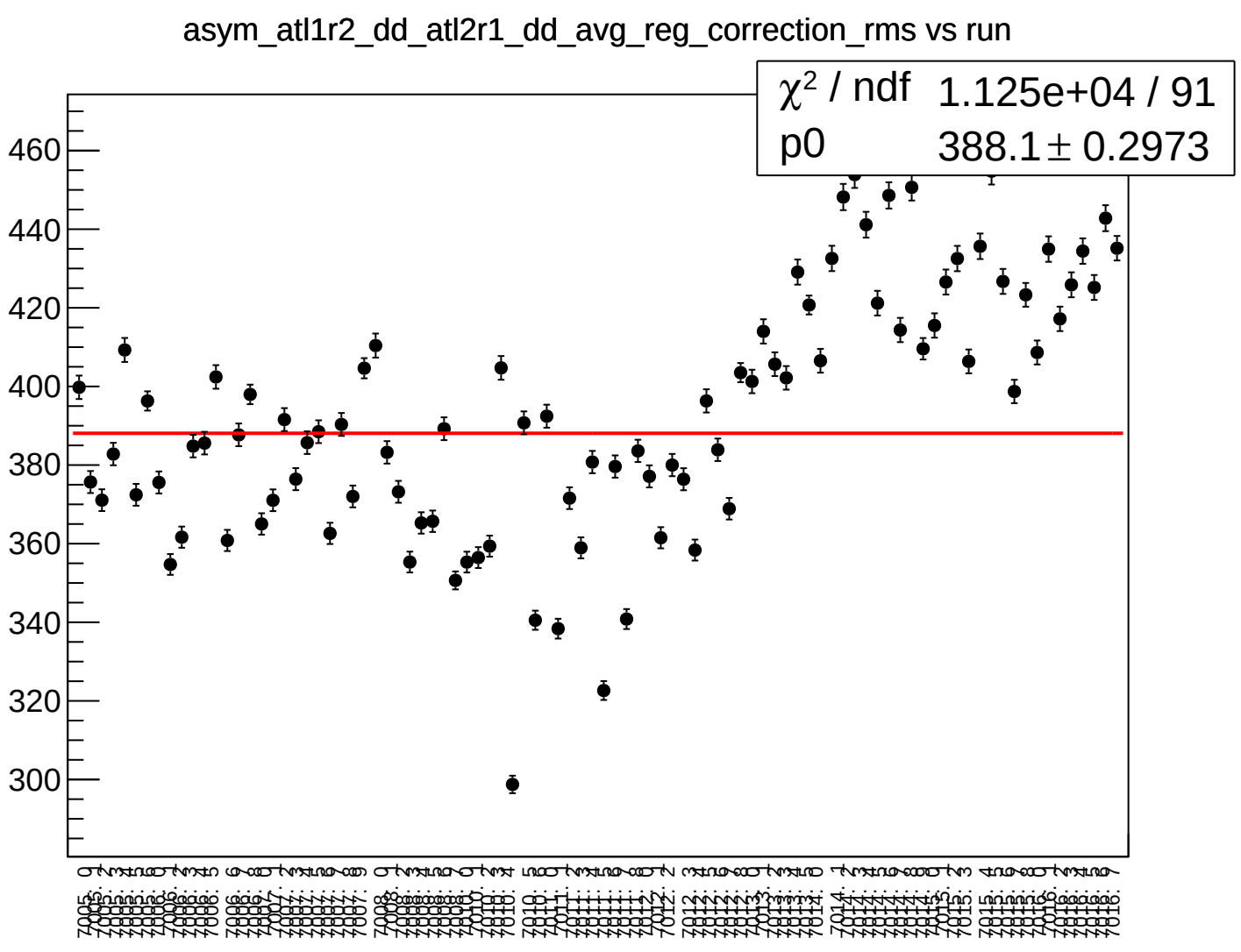

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.93 / 91
p0 1414 ± 1359
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 104
Std Dev 0
2
1
0
−1
−2

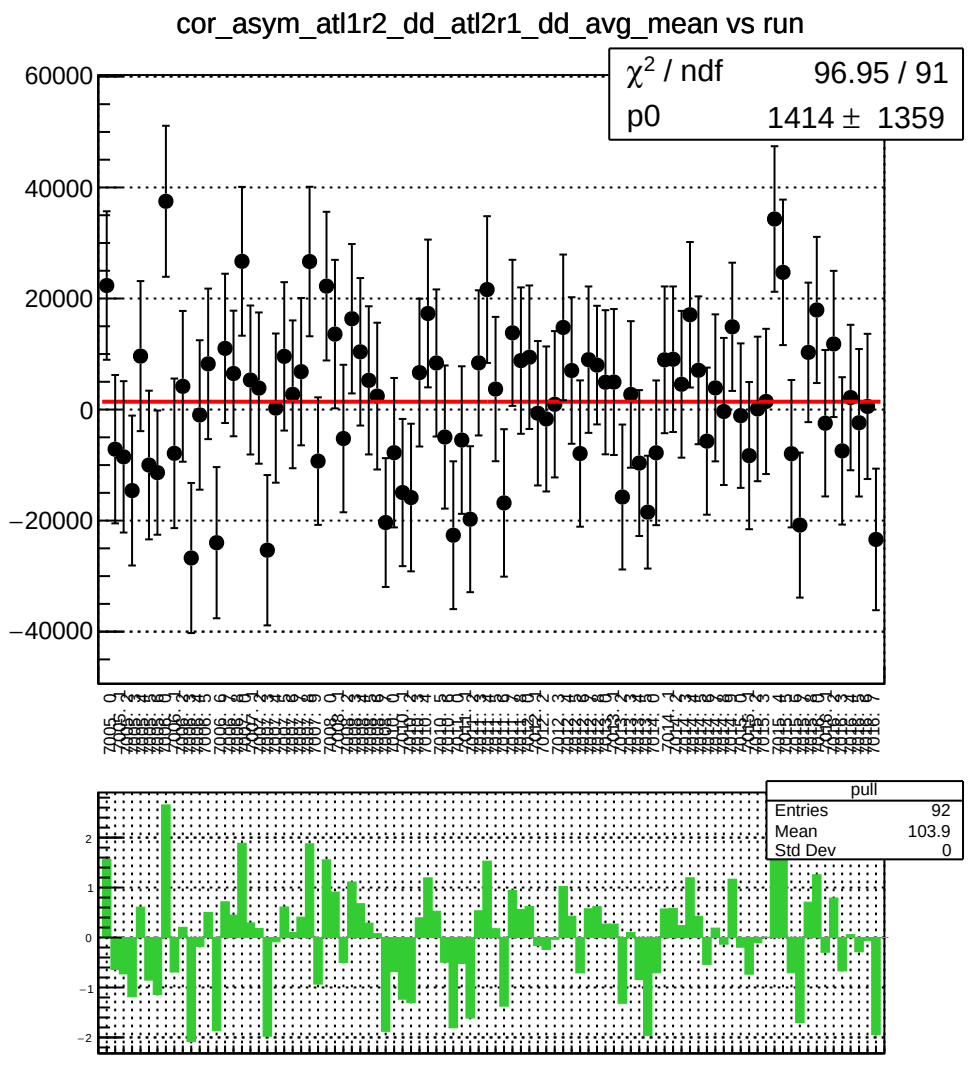

pull1D
Entries 92
Mean 0.008922
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

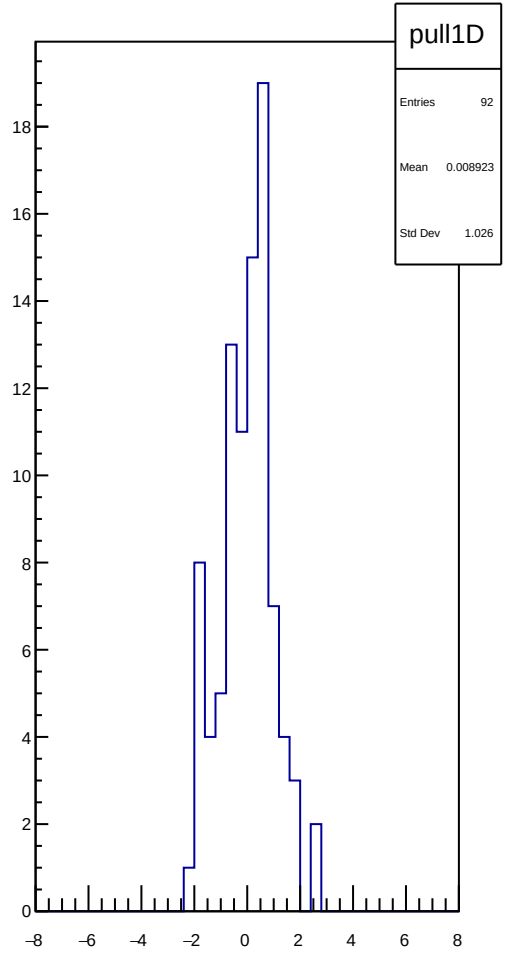

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 283.5 / 91
p0 1259 ± 0.9611
1300
1280
1260
1240
1220

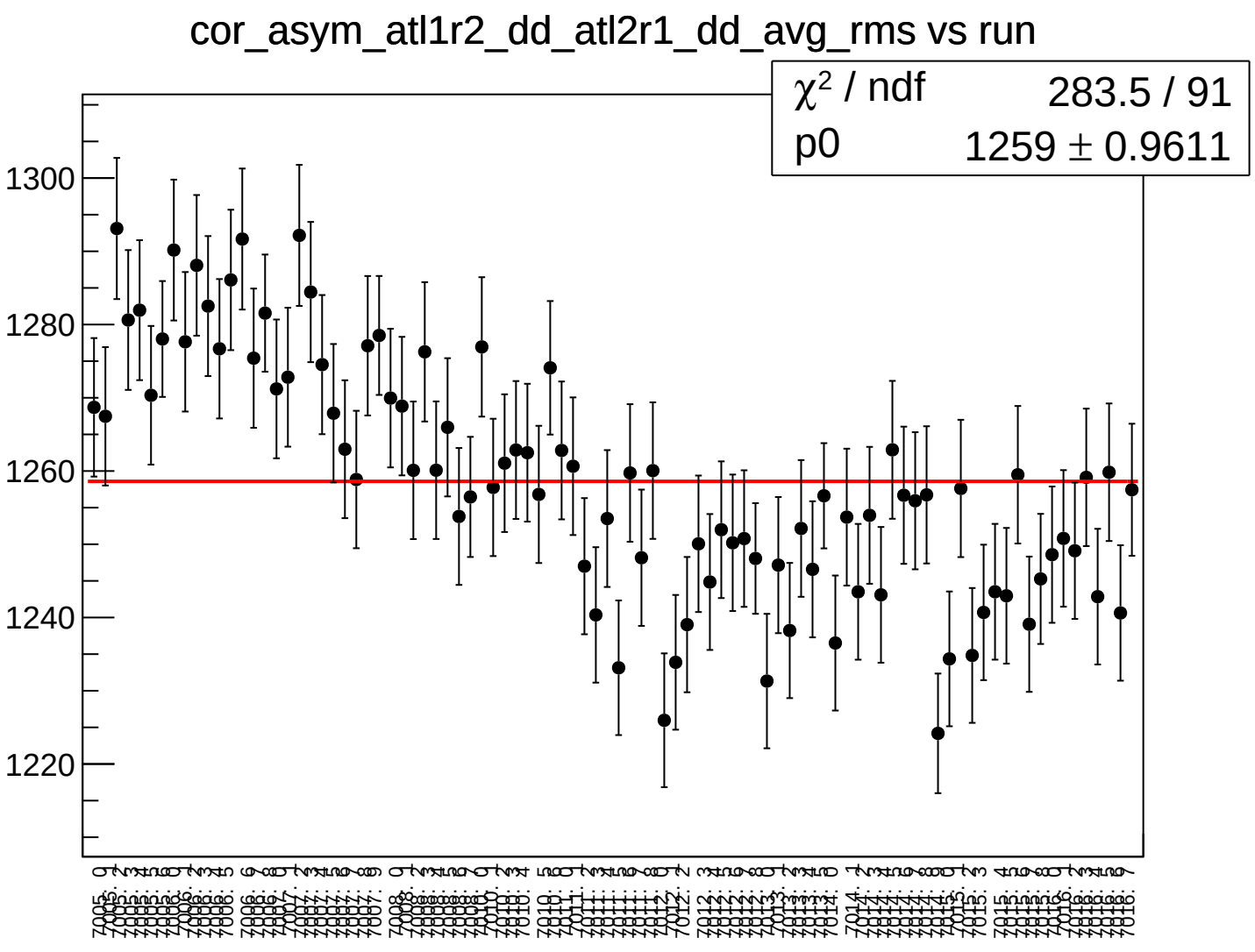

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 80.9 / 91
p0 −1233 ± 420.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −110.2
Std Dev 0
2
1
0
−1
−2

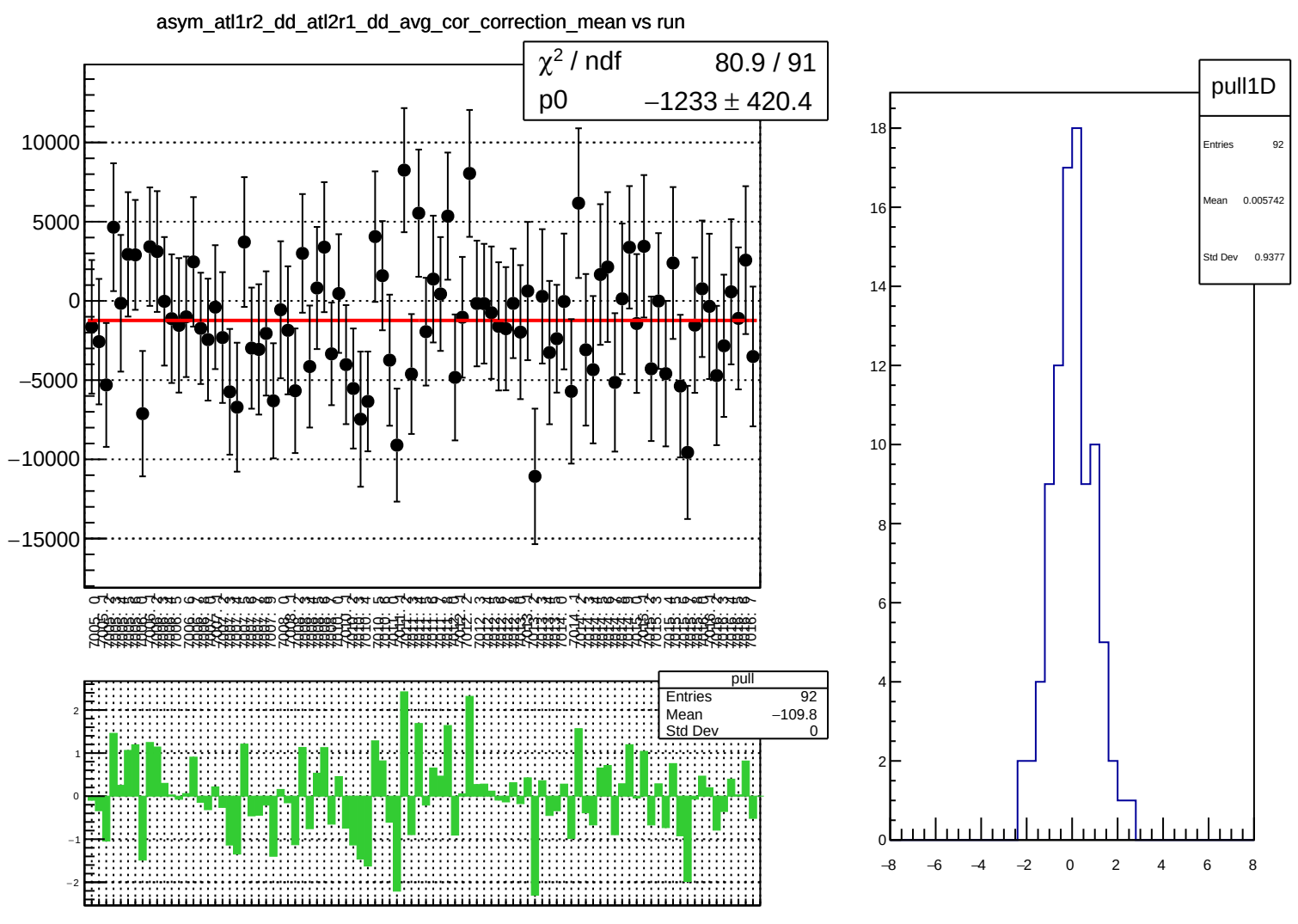

pull1D
Entries 92
Mean 0.005725
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

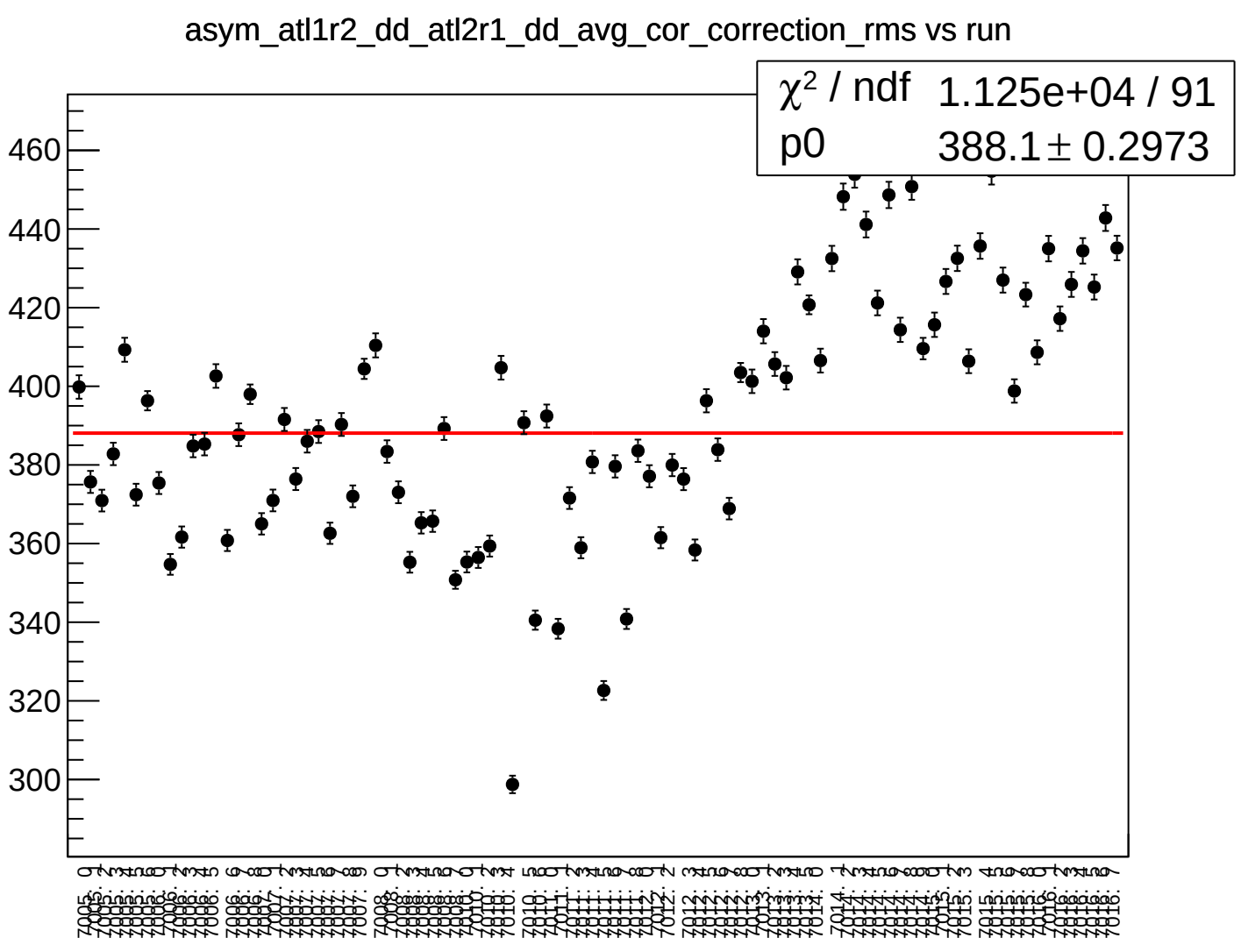

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 1.125e+04 / 91
p0 388.1 ± 0.2973
460
440
420
400
380
360
340
320
300

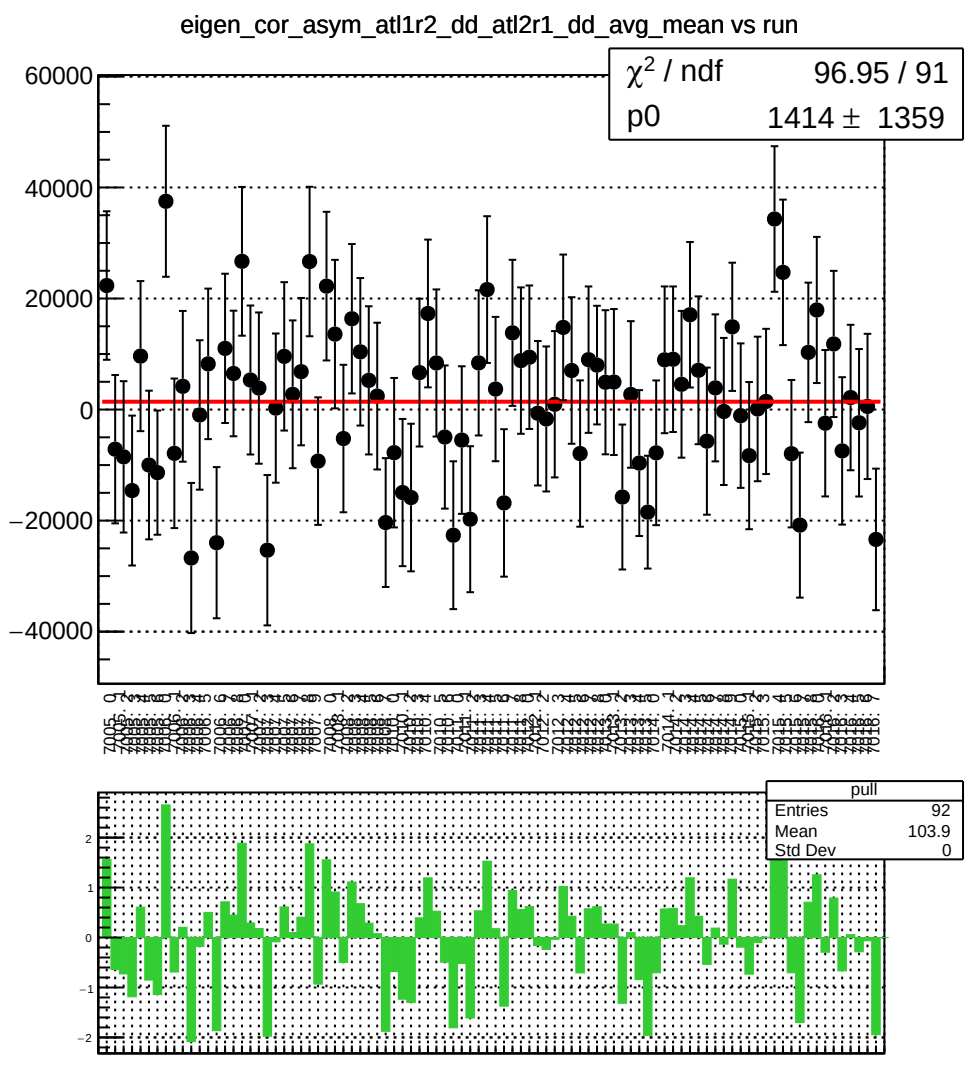

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.95 / 91
p0 1414 ± 1359
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 103.9
Std Dev 0
2
1
0
−1
−2

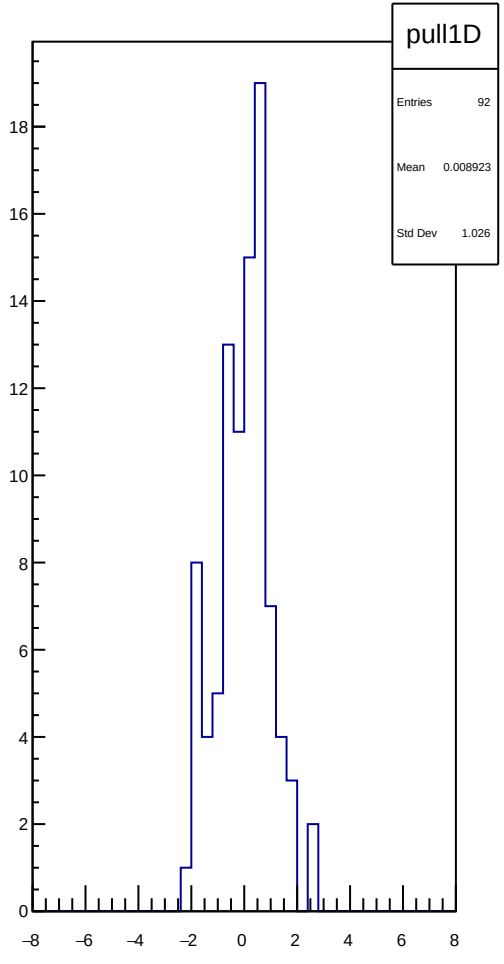

pull1D
Entries 92
Mean 0.008923
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

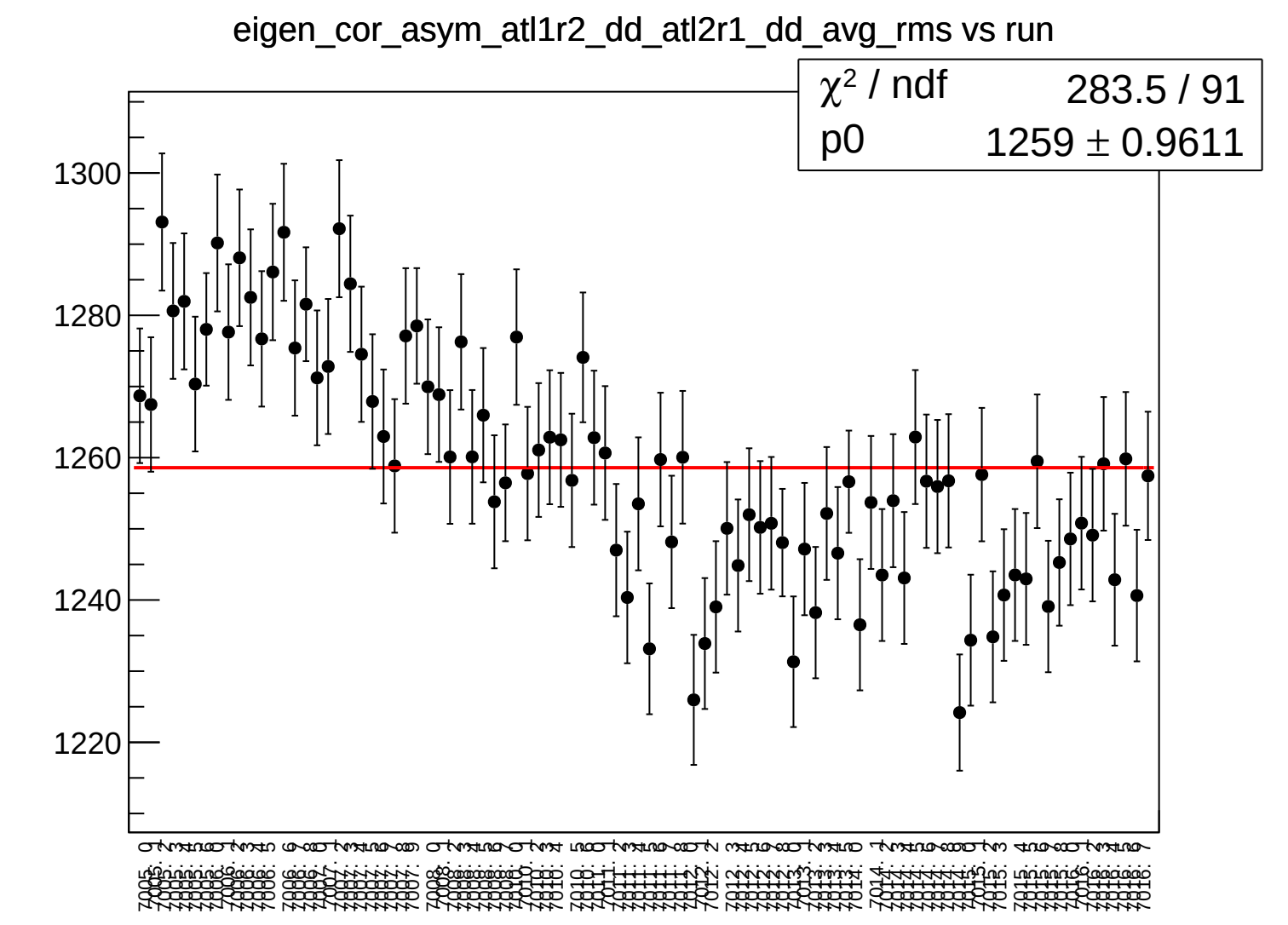

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 283.5 / 91
p0 1259 ± 0.9611
1300
1280
1260
1240
1220

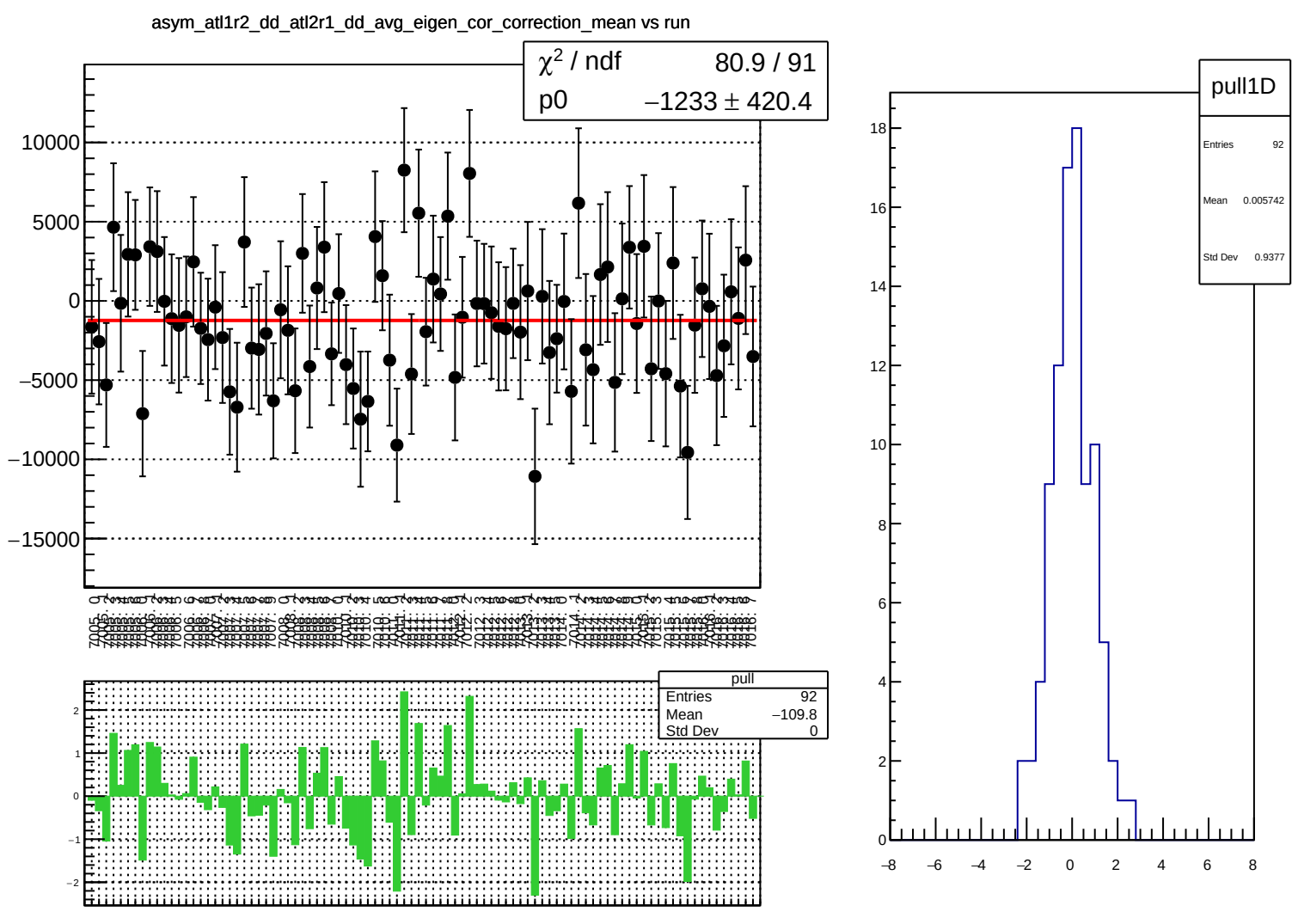

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 80.9 / 91
p0 −1233 ± 420.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −109.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005742
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

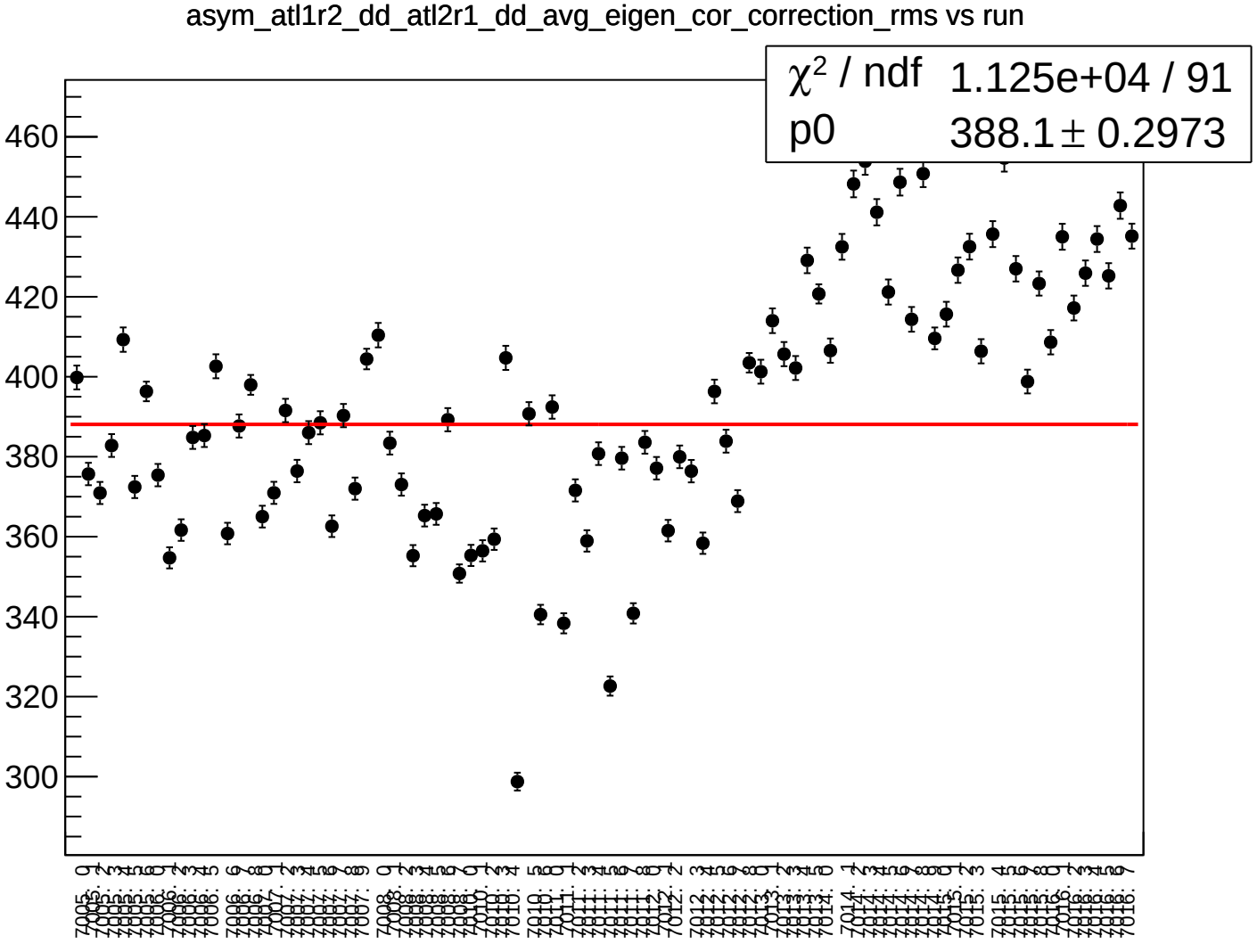

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 1.125e+04 / 91
p0 388.1 ± 0.2973
460
440
420
400
380
360
340
320
300

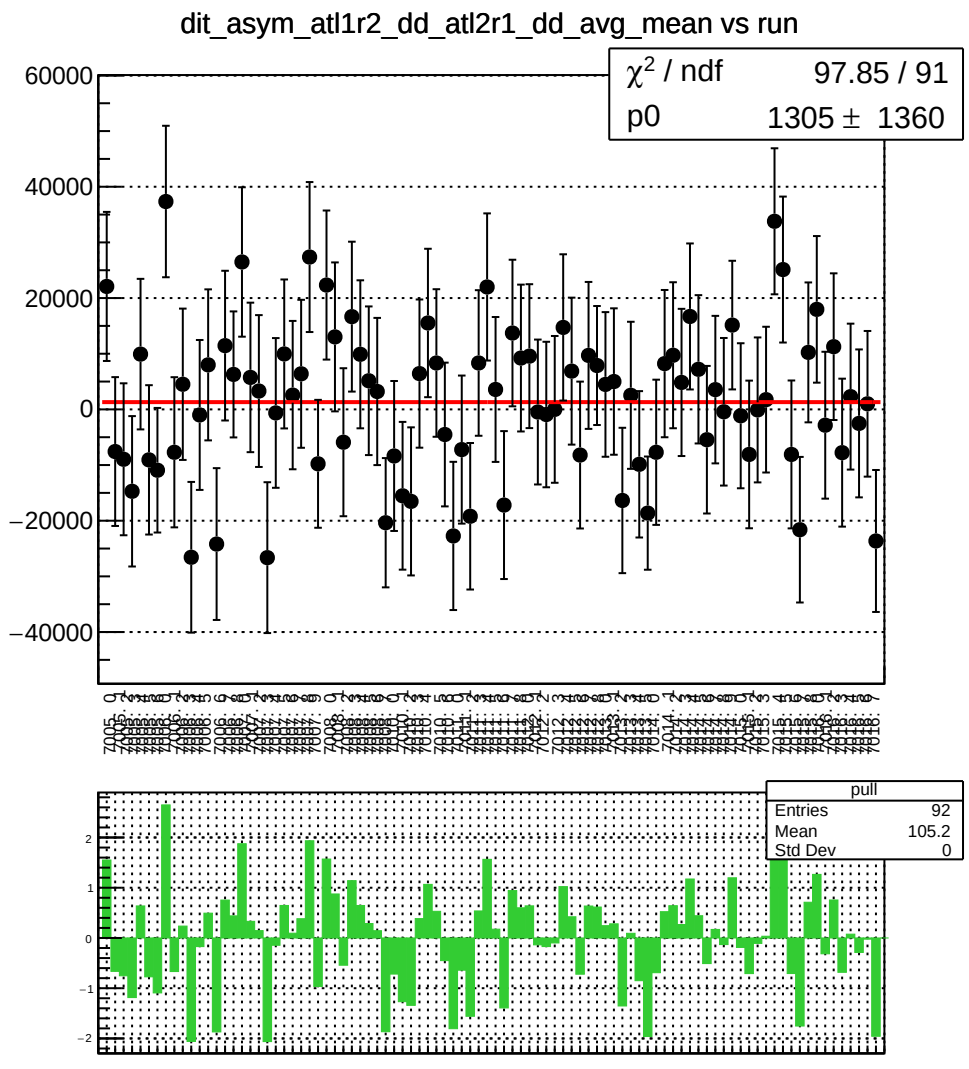

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.95 / 91
p0 1414 ± 1359
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 103.9
Std Dev 0
2
1
0
−1
−2

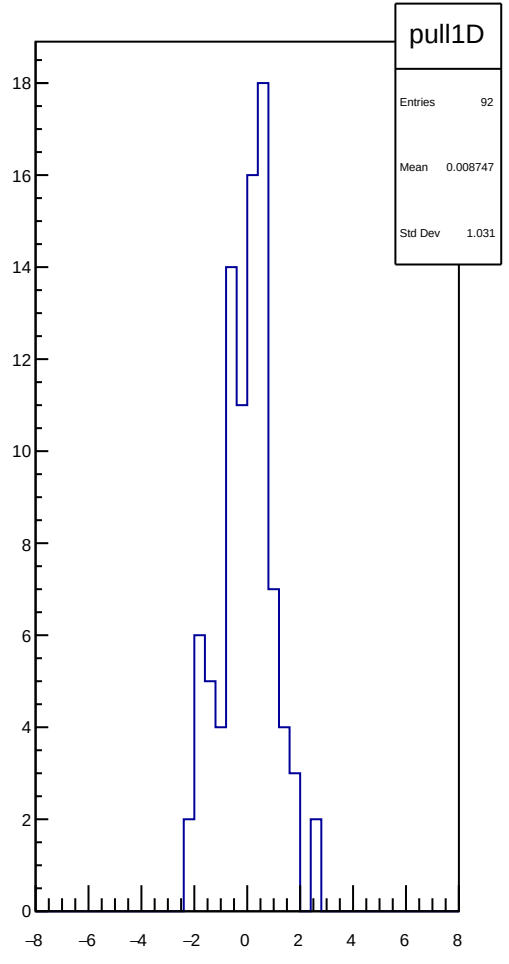

pull1D
Entries 92
Mean 0.008923
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

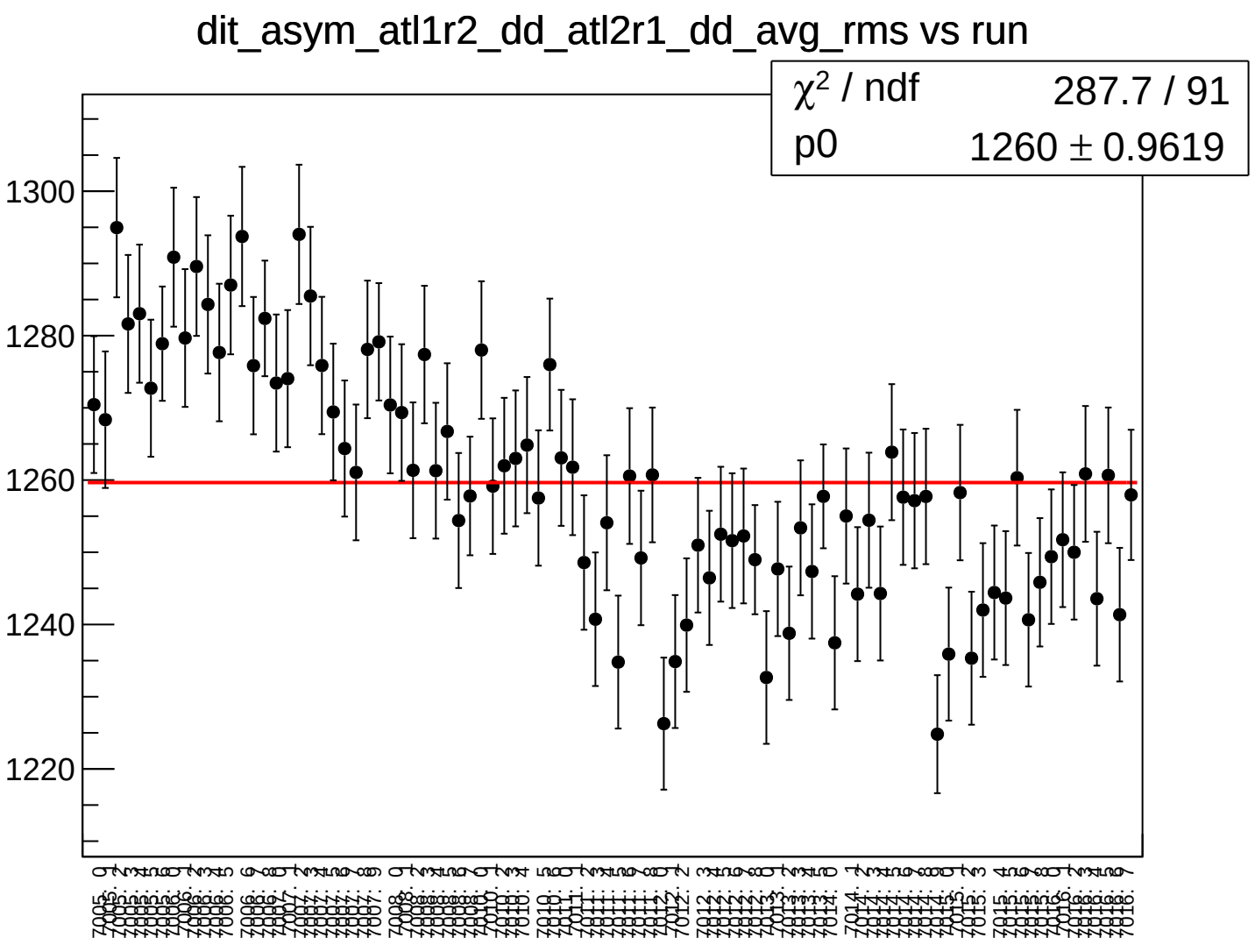

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 283.5 / 91
p0 1259 ± 0.9611
1300
1280
1260
1240
1220

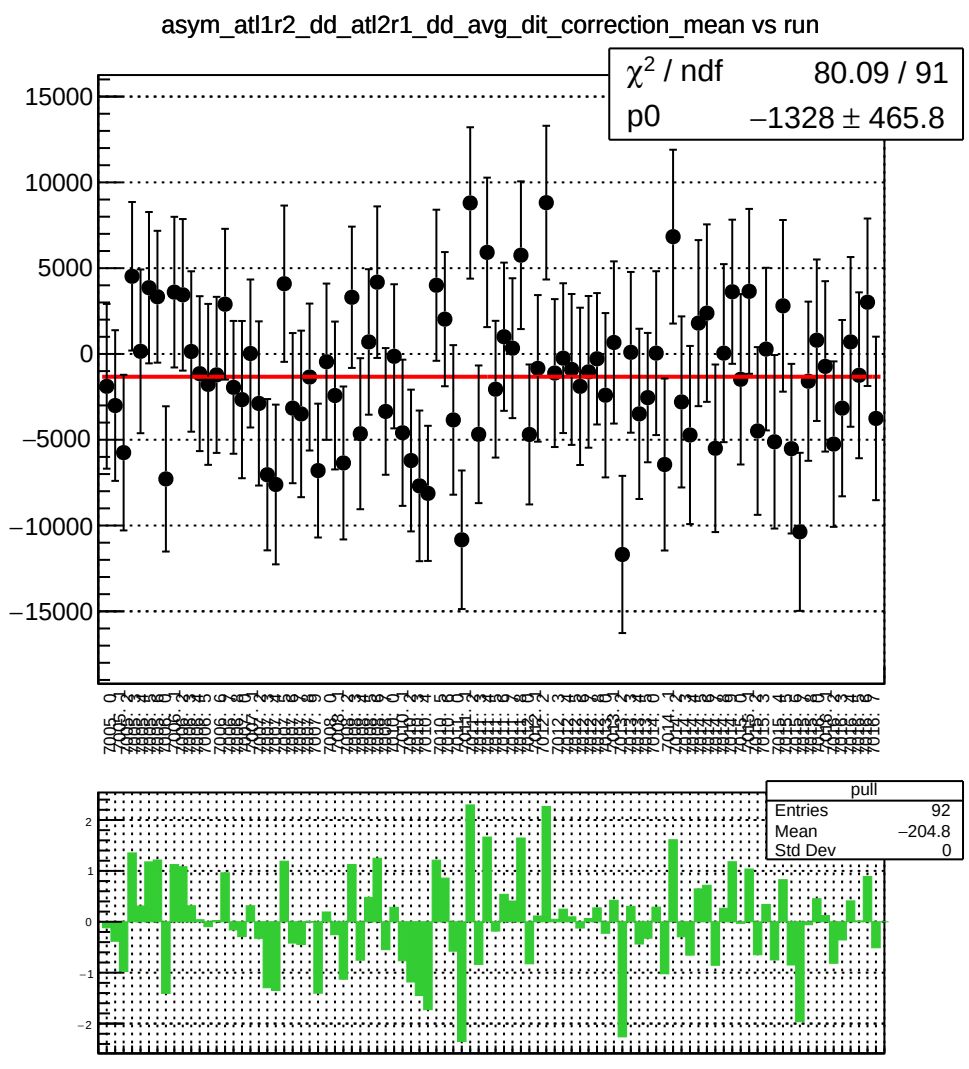

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.9 / 91
p0 −1233 ± 420.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −109.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005742
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

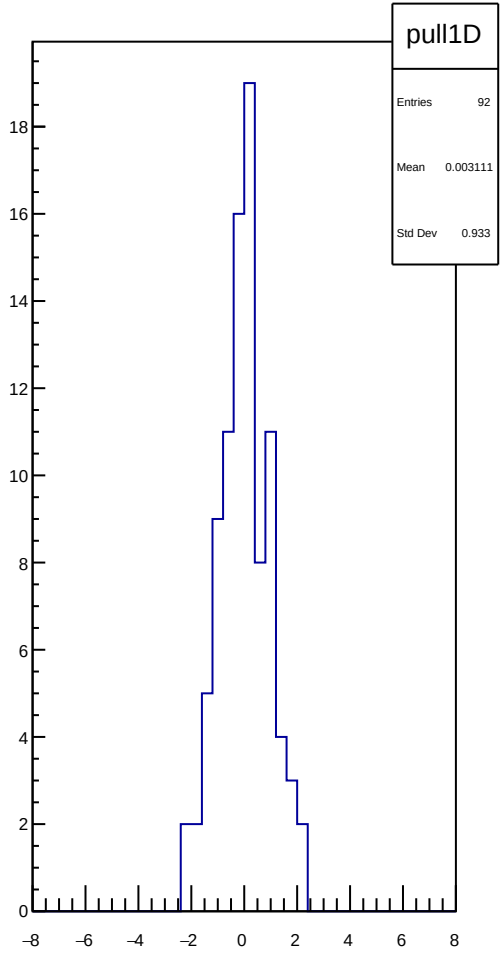

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.125e+04 / 91
p0 388.1 ± 0.2973
460
440
420
400
380
360
340
320
300

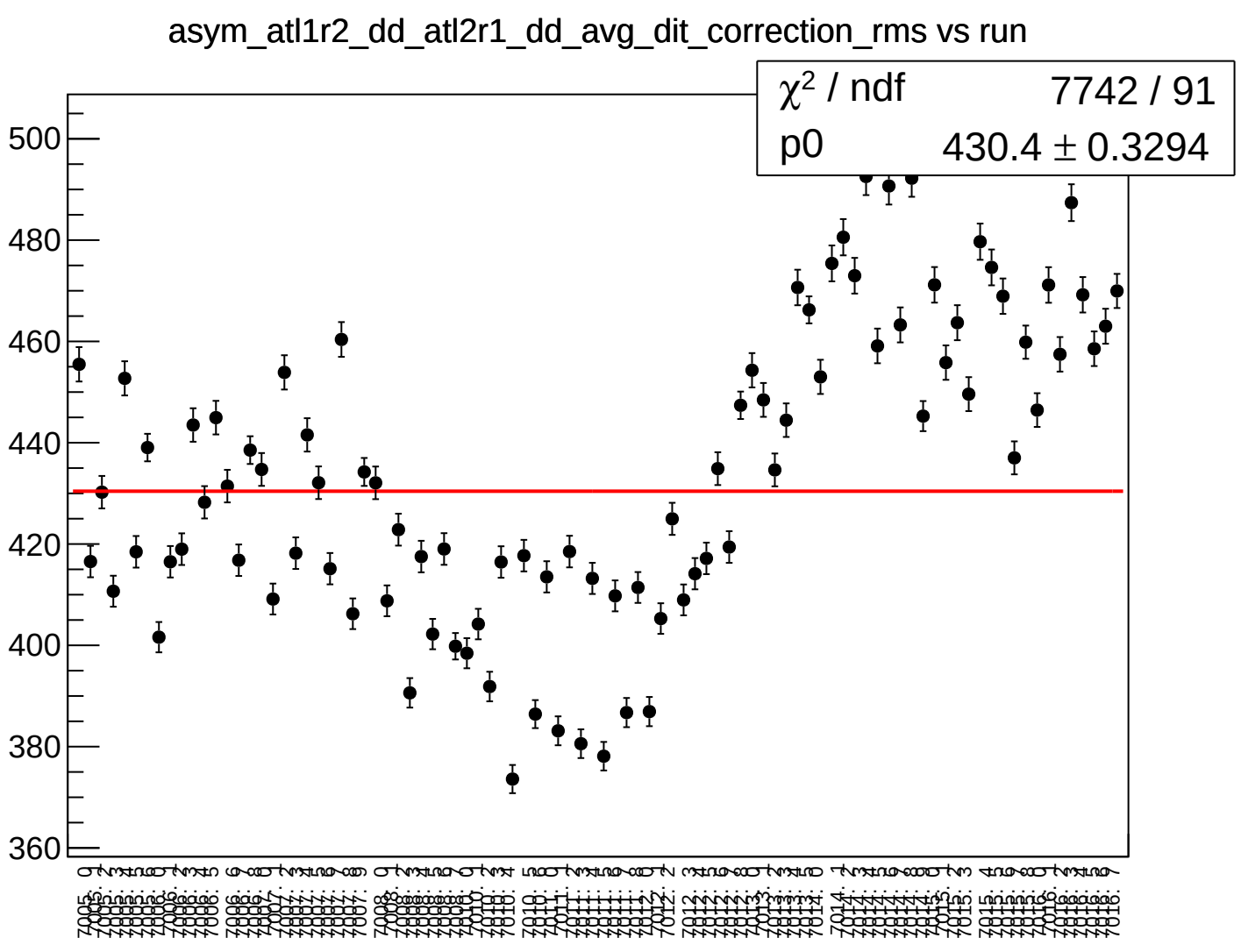

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 97.85 / 91
p0 1305 ± 1360
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 105.2
Std Dev 0
2
1
0
−1
−2

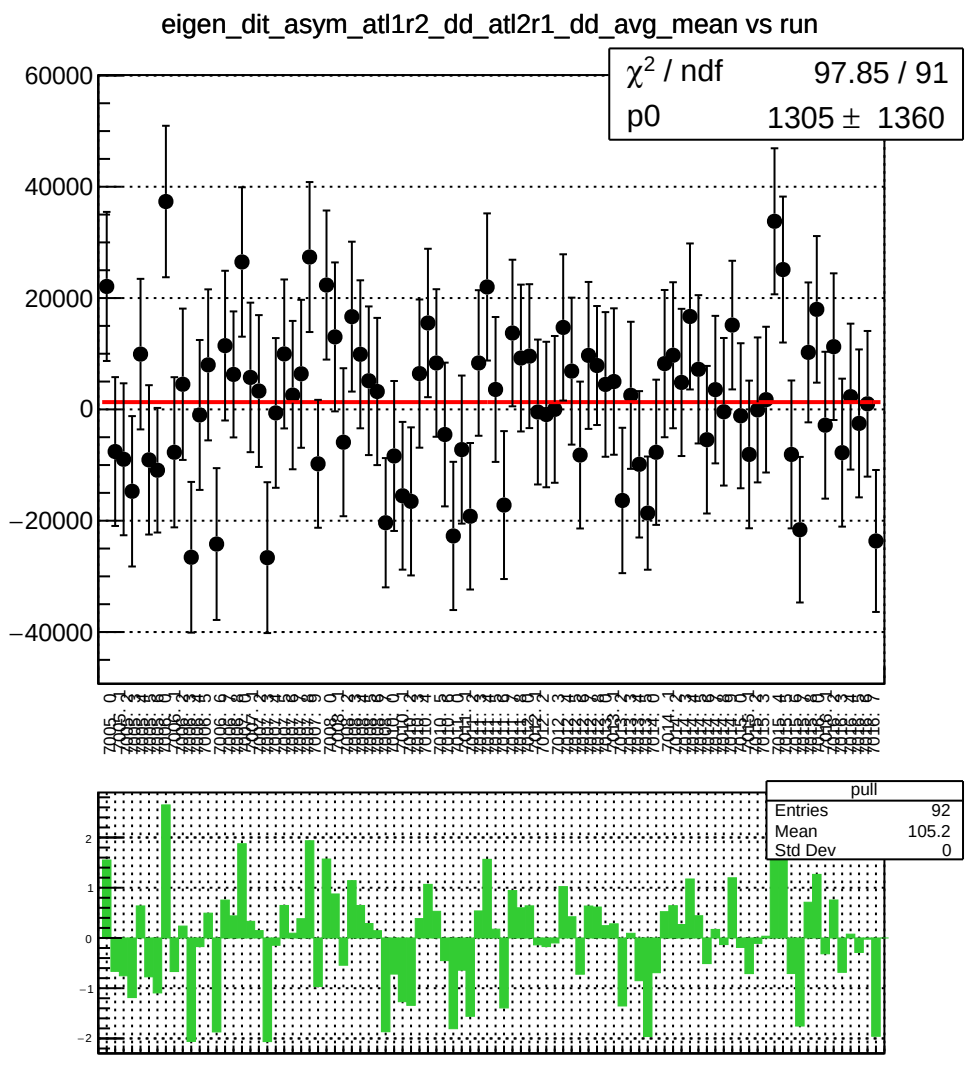

pull1D
Entries 92
Mean 0.008747
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

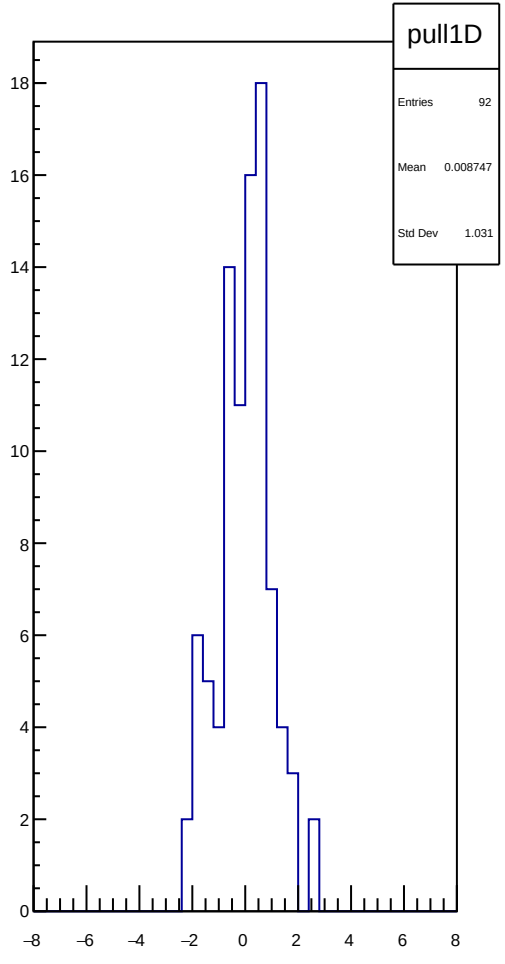

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 287.7 / 91
p0 1260 ± 0.9619
1300
1280
1260
1240
1220

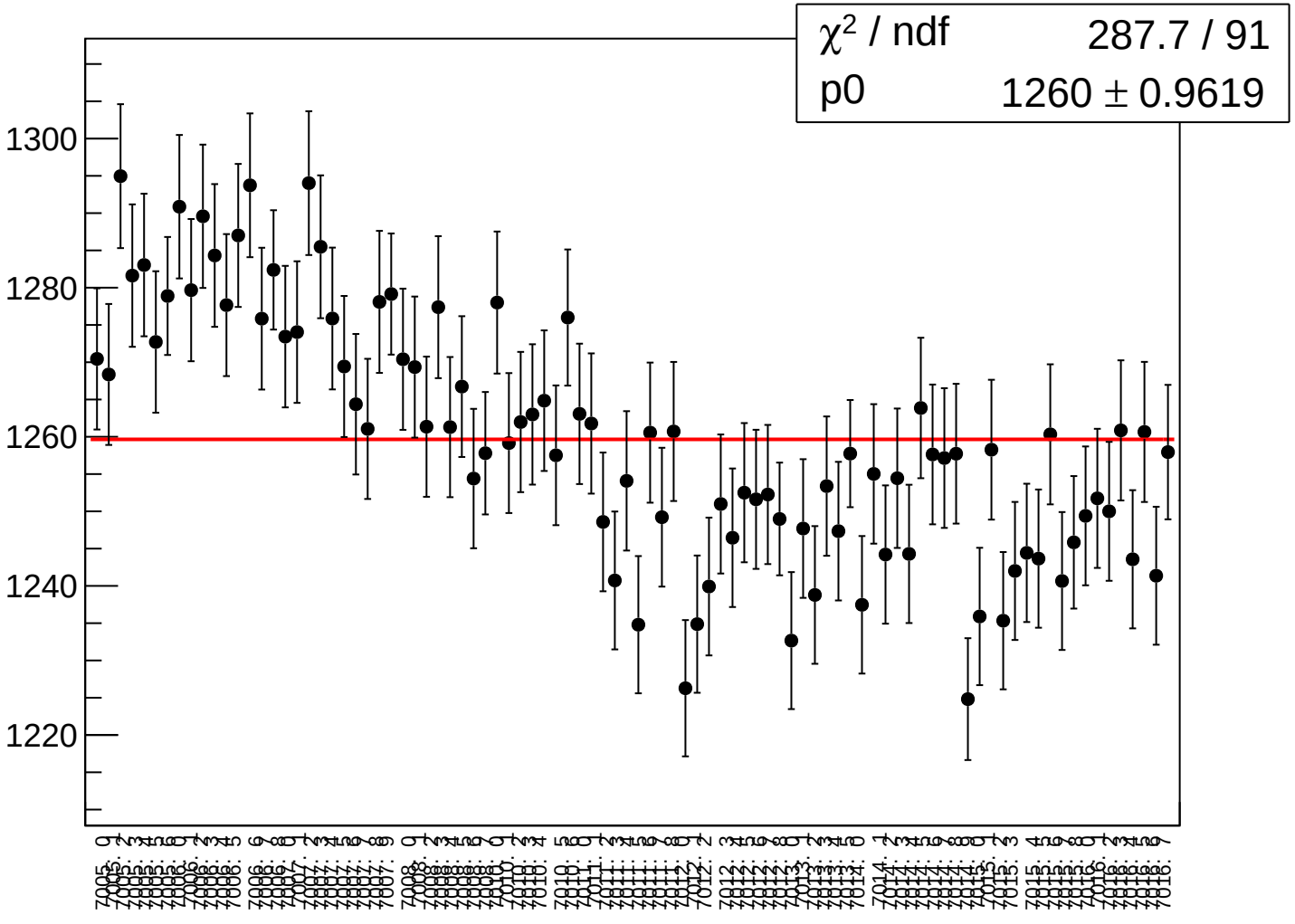

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 80.09 / 91
p0 −1328 ± 465.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −204.8
Std Dev 0
2
1
0
−1
−2

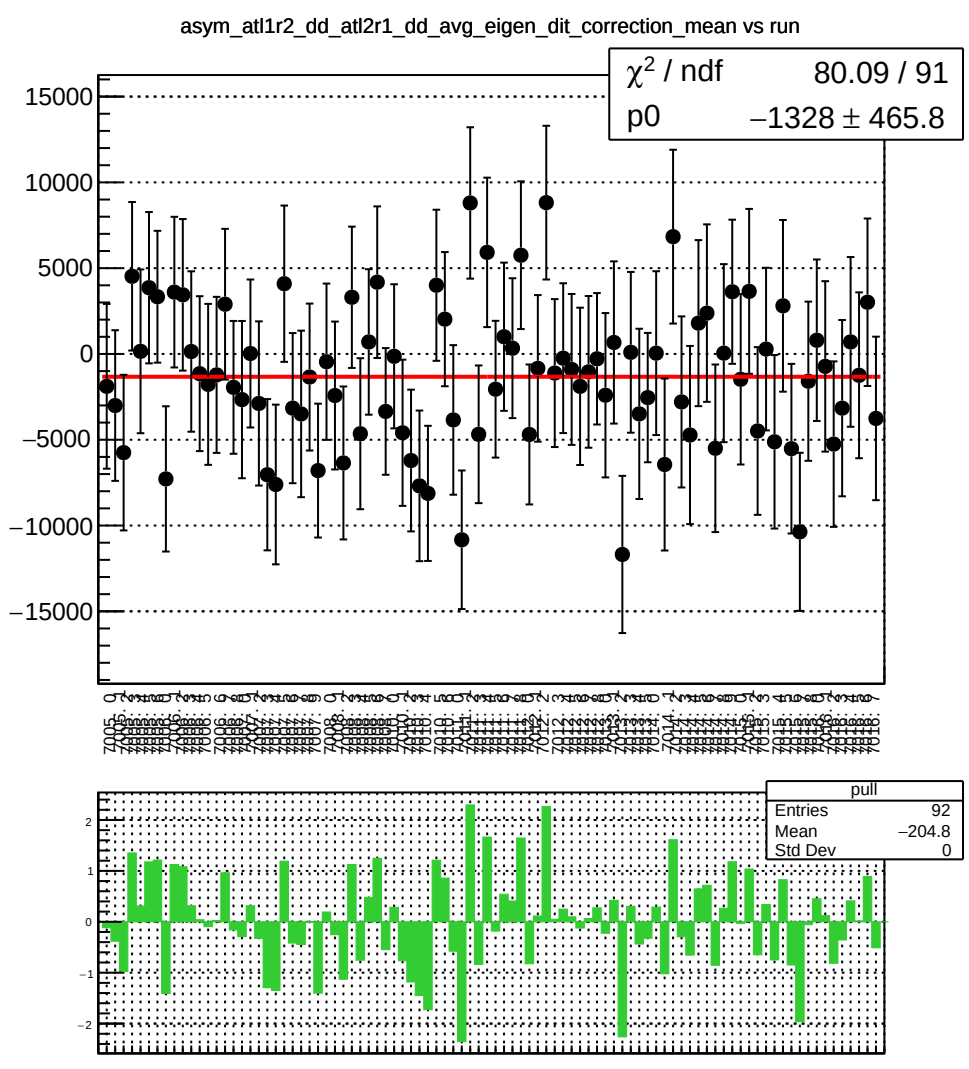

pull1D
Entries 92
Mean 0.003111
Std Dev 0.933
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

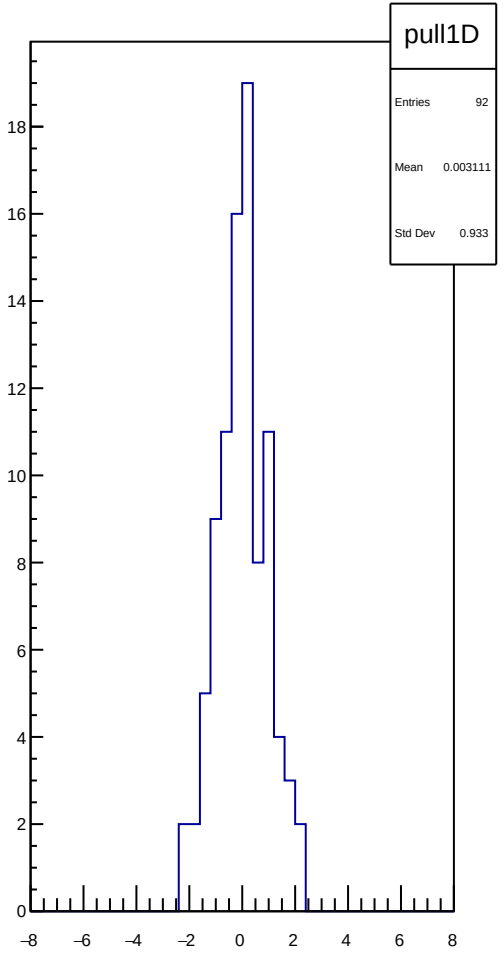

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 7742 / 91
p0 430.4 ± 0.3294
500
480
460
440
420
400
380
360

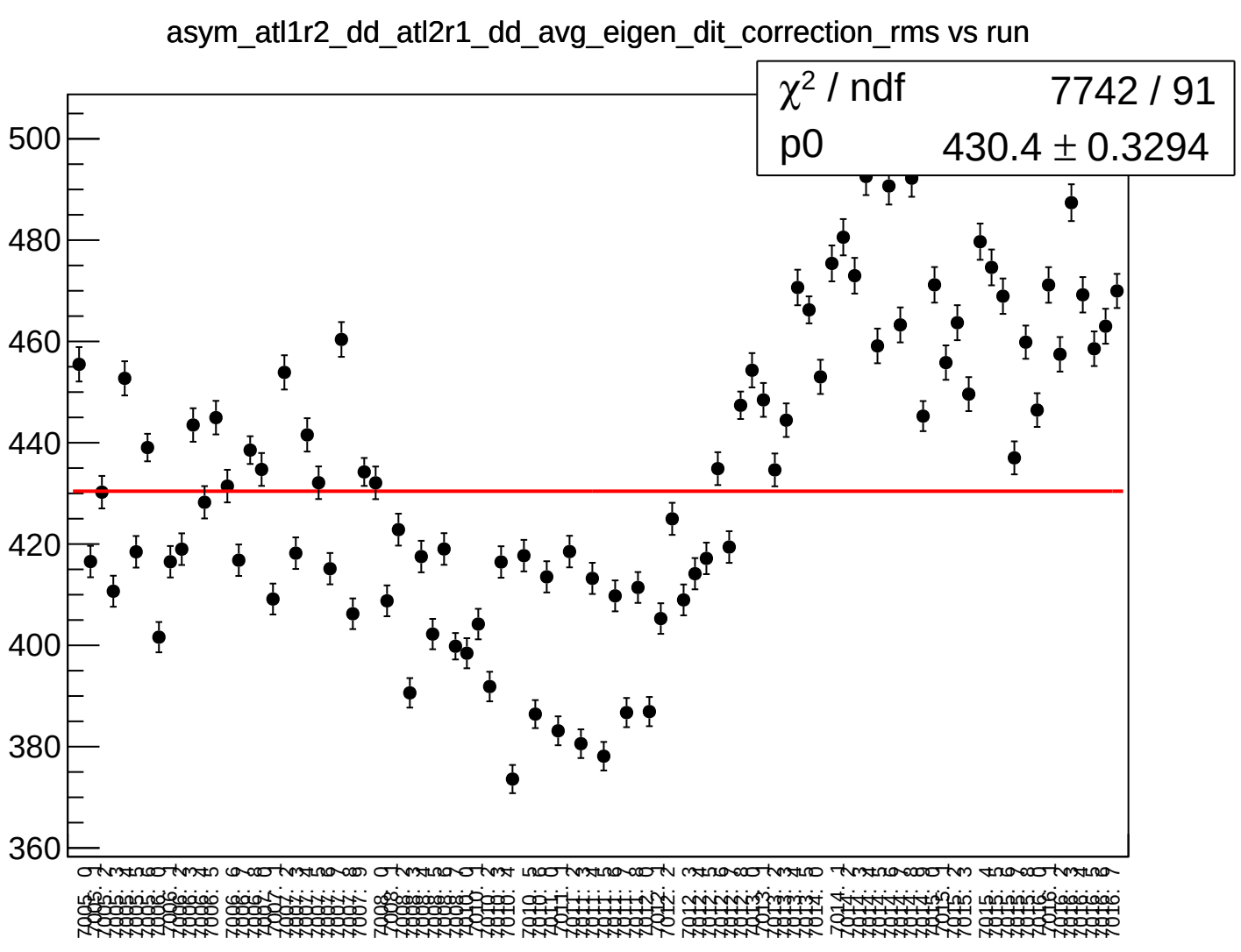

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 97.85 / 91
p0 1305 ± 1360
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 105.2
Std Dev 0
2
1
0
−1
−2

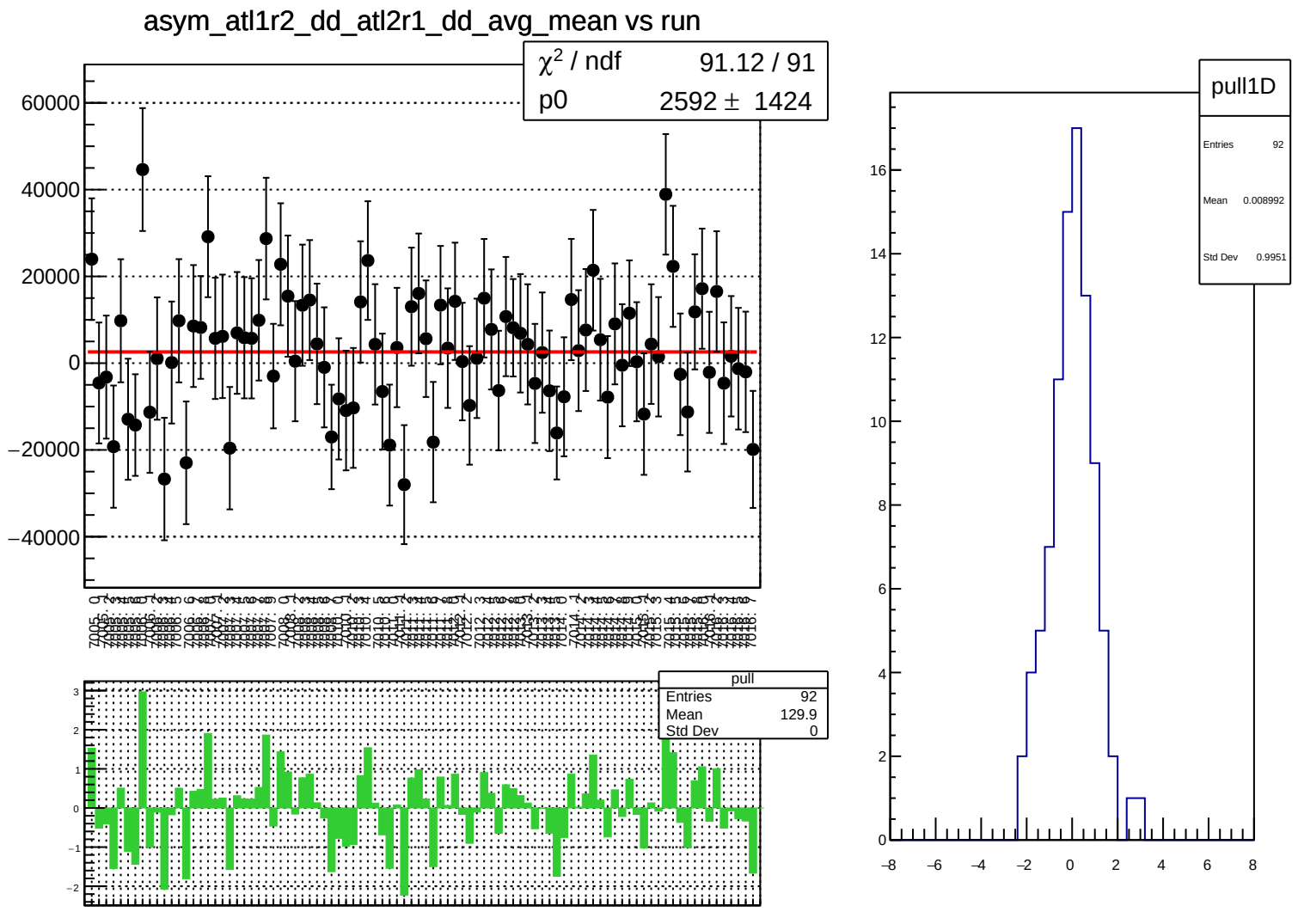

pull1D
Entries 92
Mean 0.008747
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

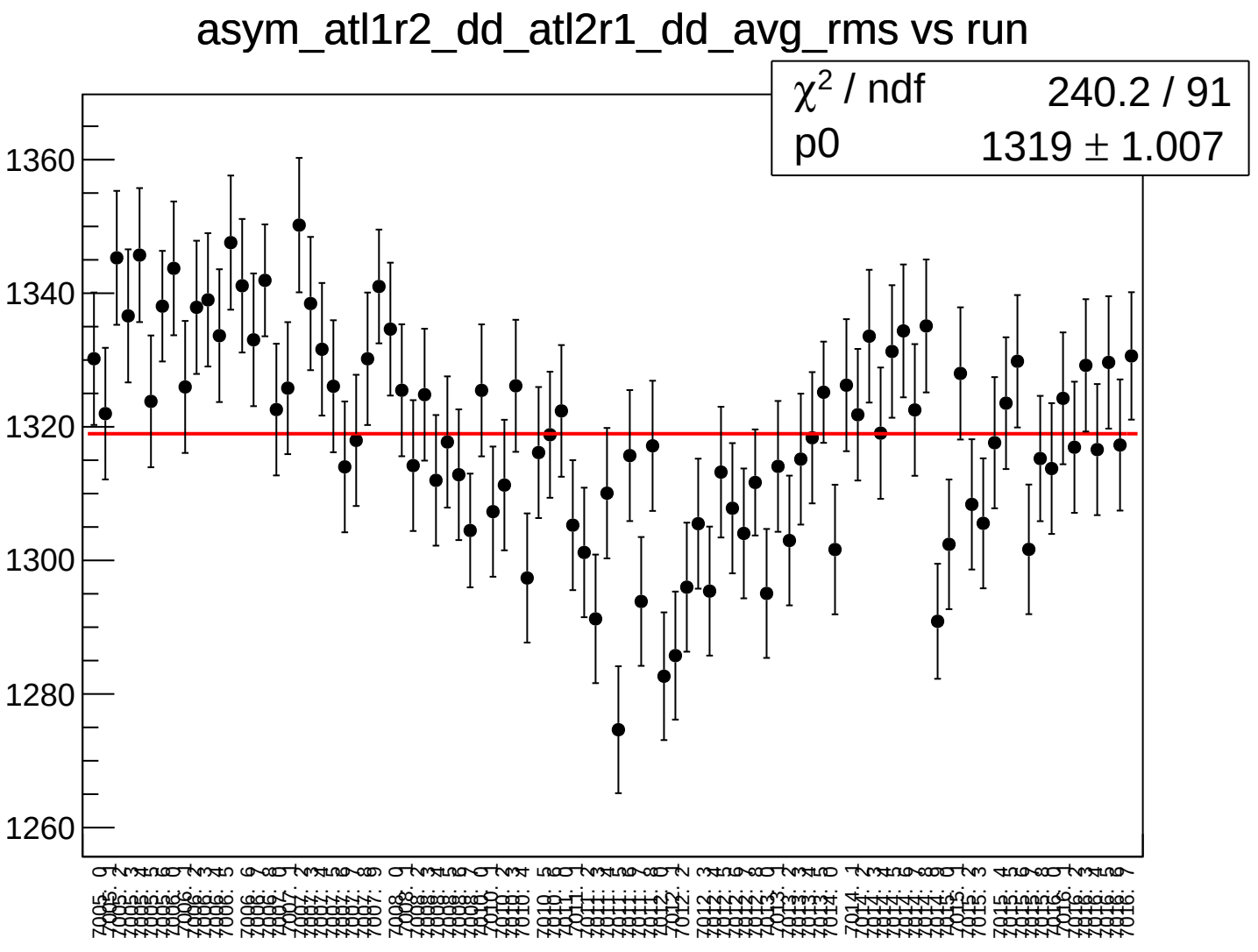

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 287.7 / 91
p0 1260 ± 0.9619
1300
1280
1260
1240
1220

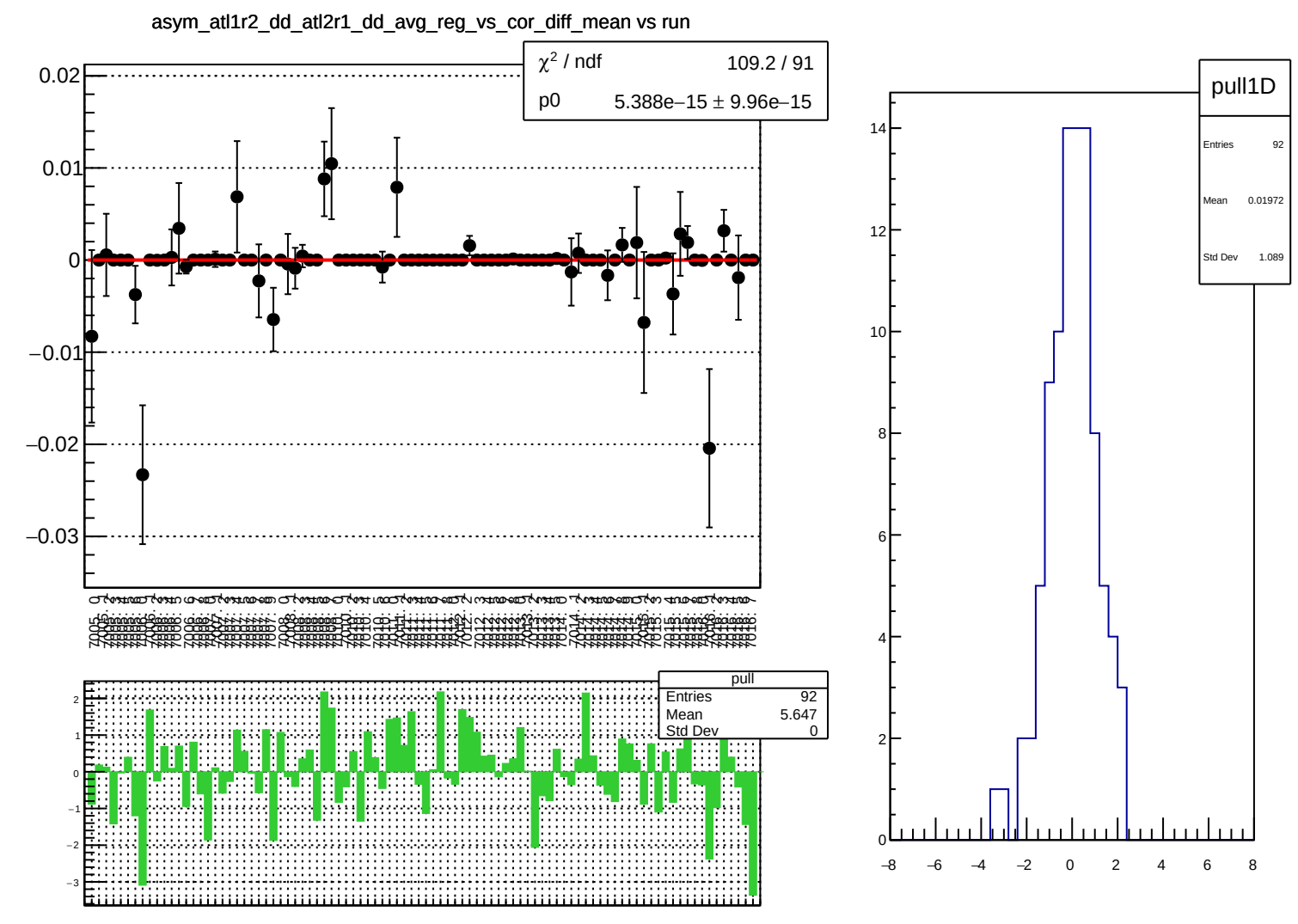

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.09 / 91
p0 −1328 ± 465.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −204.8
Std Dev 0
2
1
0
−1
−2

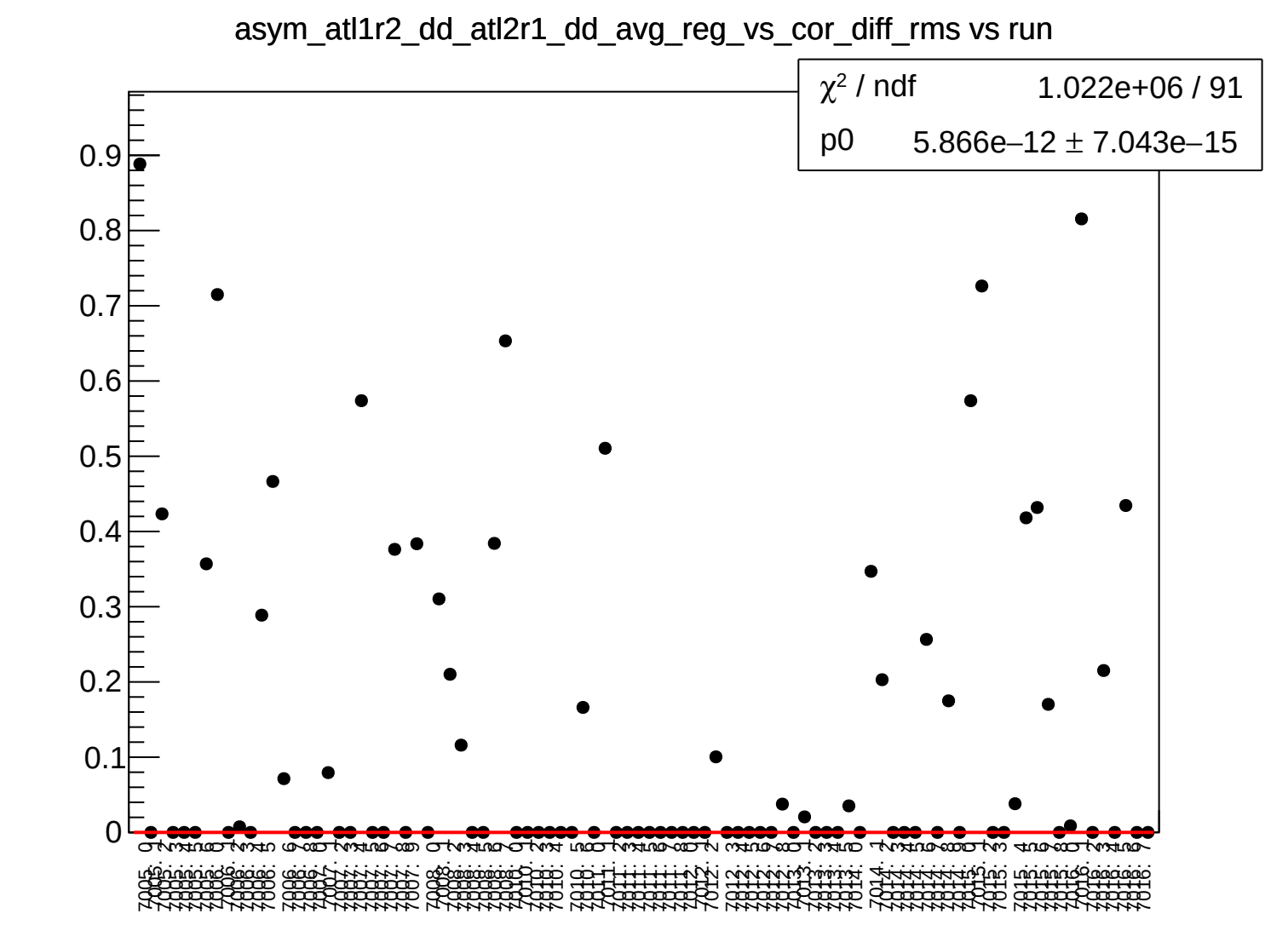

pull1D
Entries 92
Mean 0.003111
Std Dev 0.933
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

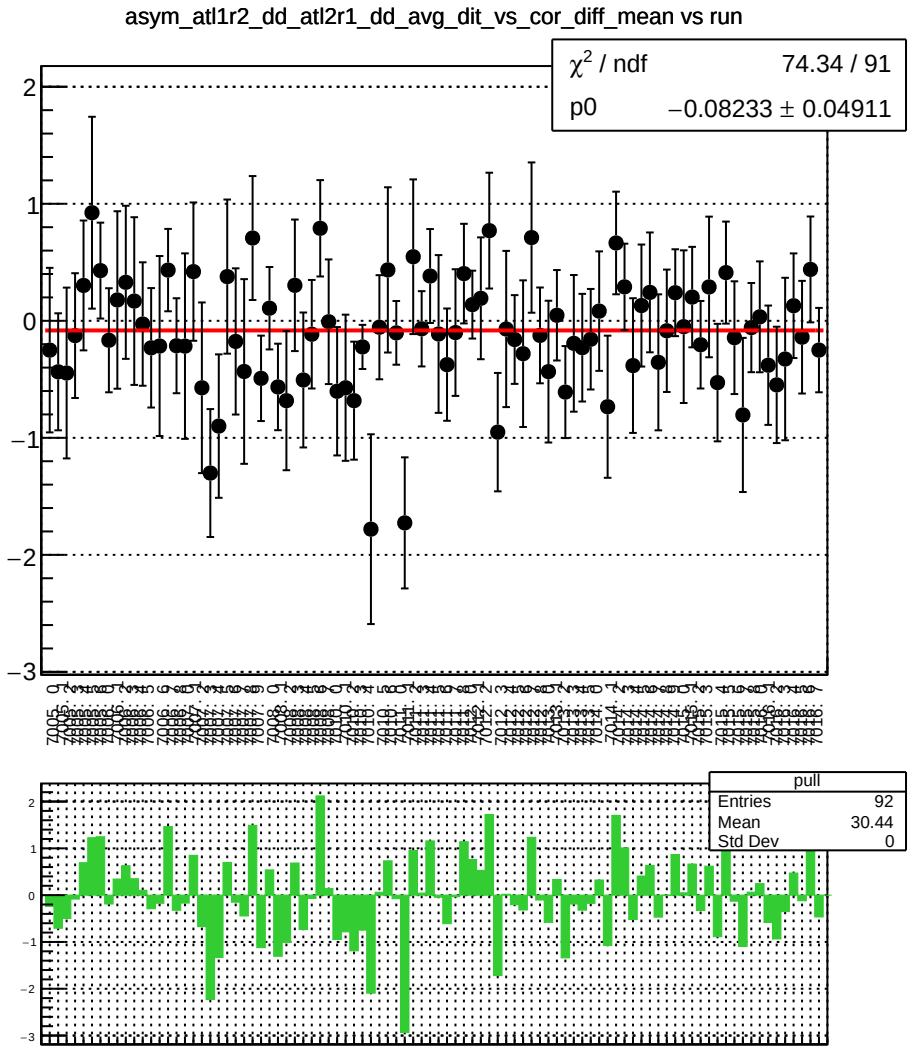

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7742 / 91
p0 430.4 ± 0.3294
500
480
460
440
420
400
380
360

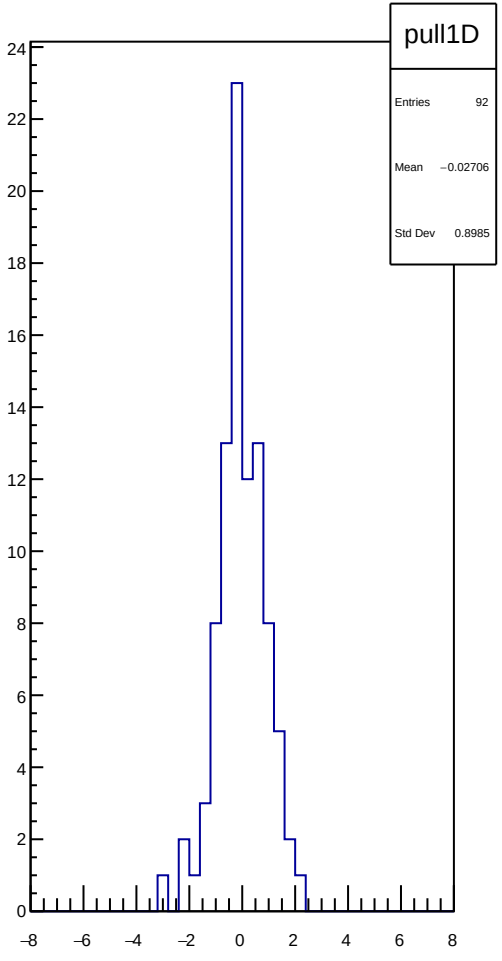

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 91.12 / 91
p0 2592 ± 1424
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 129.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.008992
Std Dev 0.9951
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

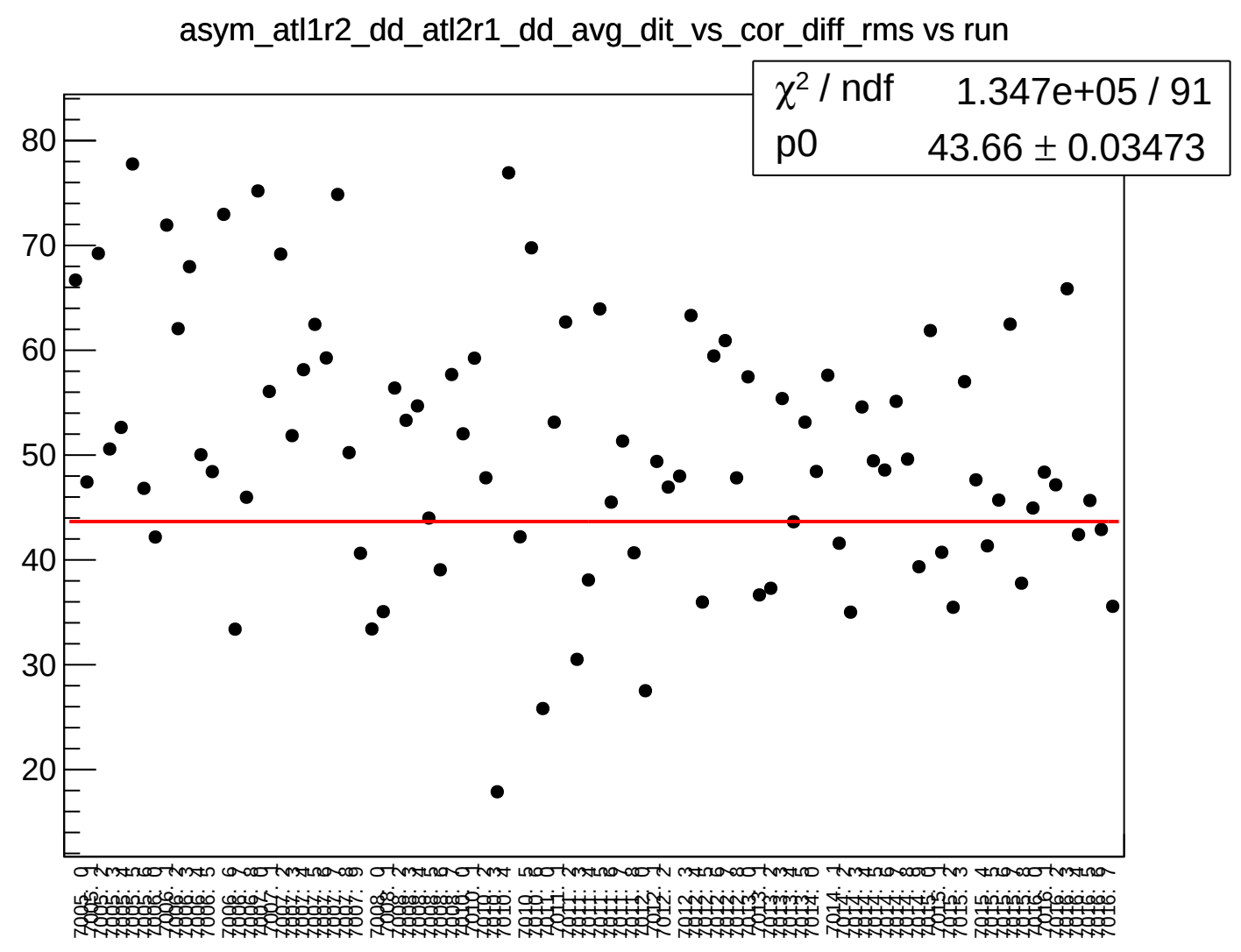

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 240.2 / 91
p0 1319 ± 1.007
1360
1340
1320
1300
1280
1260

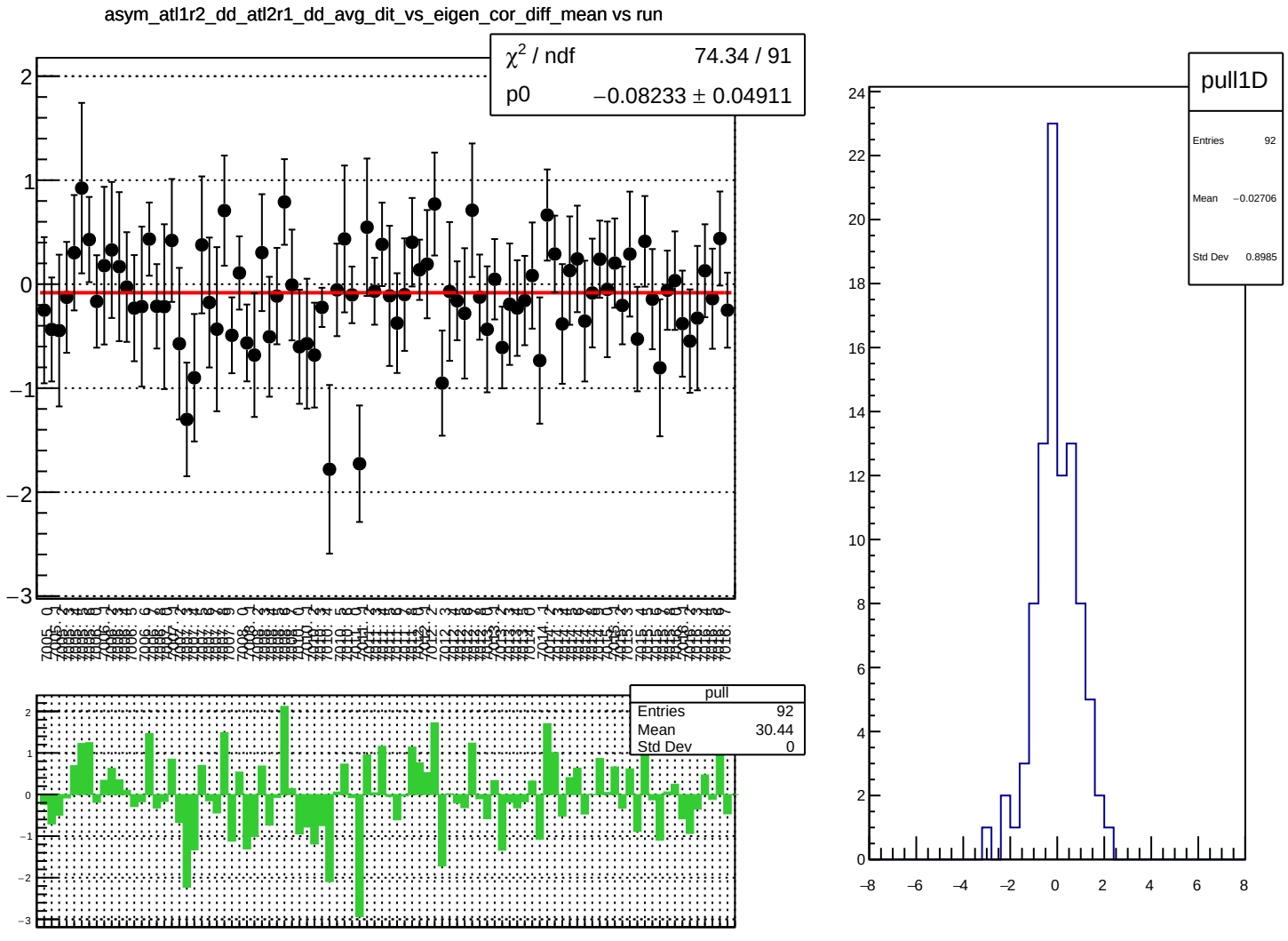

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.2 / 91
p0 5.388e−15 ± 9.96e−15
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 5.647
Std Dev 0
pull1D
Entries 92
Mean 0.01972
Std Dev 1.089

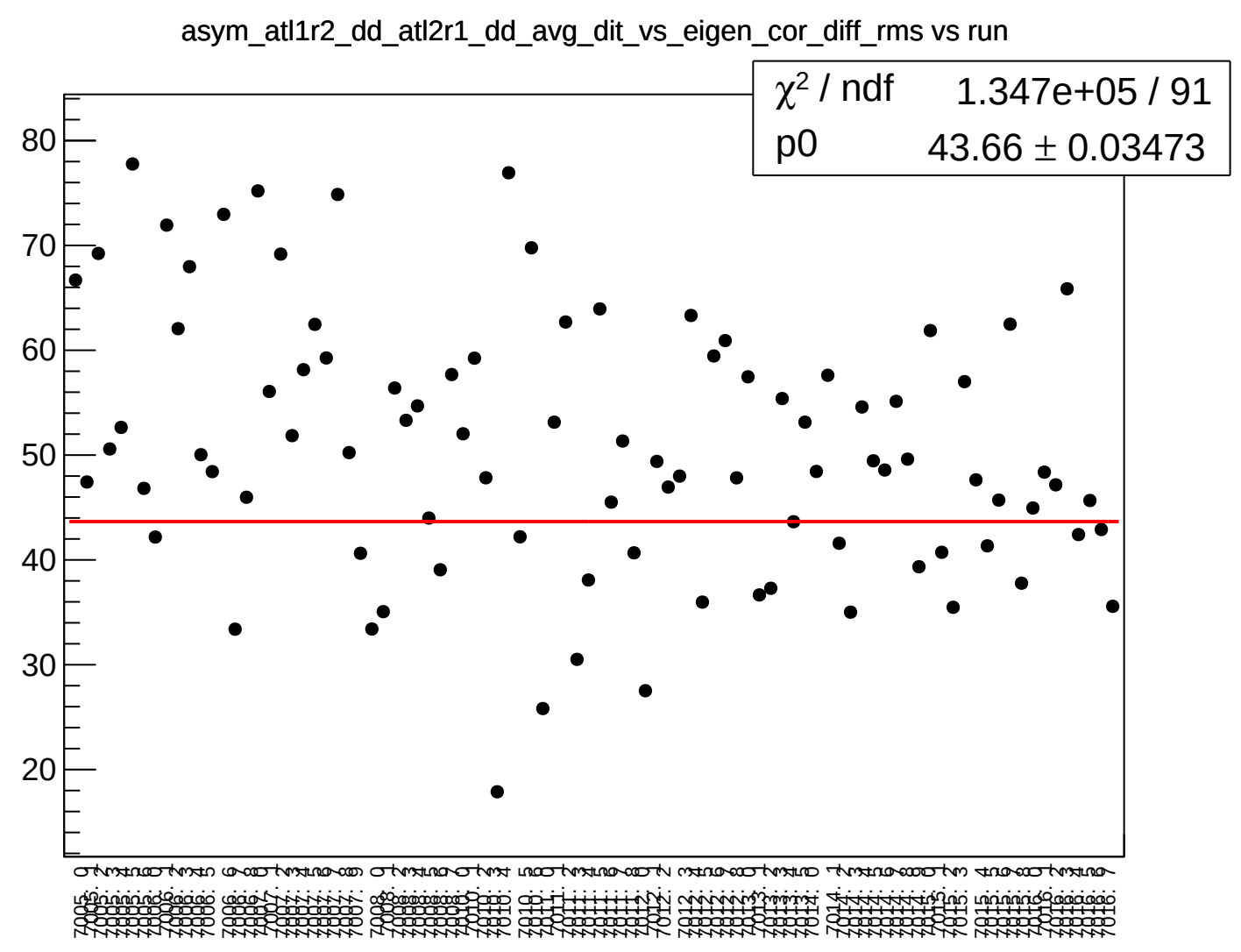

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 91
p0 5.866e−12 ± 7.043e−15
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

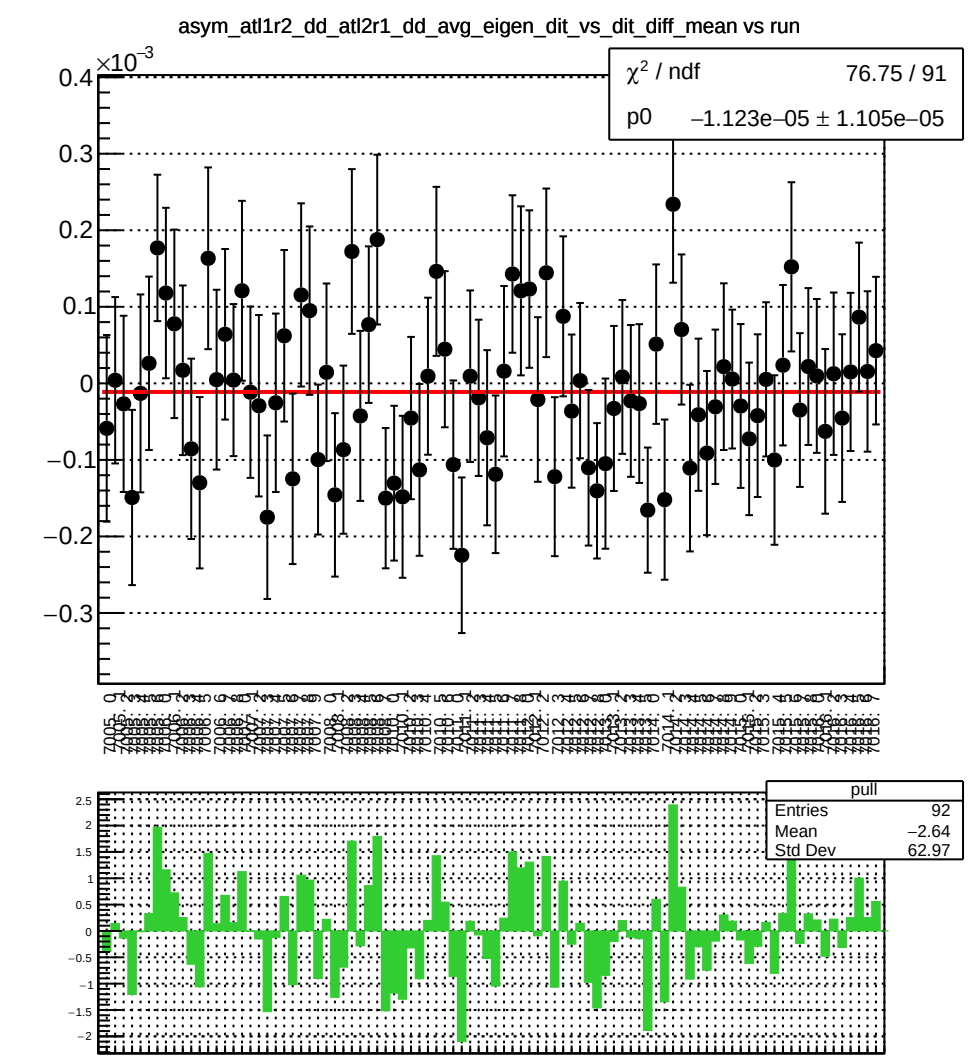

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.34 / 91
p0 −0.08233 ± 0.04911
pull
Entries 92
Mean 30.44
Std Dev 0

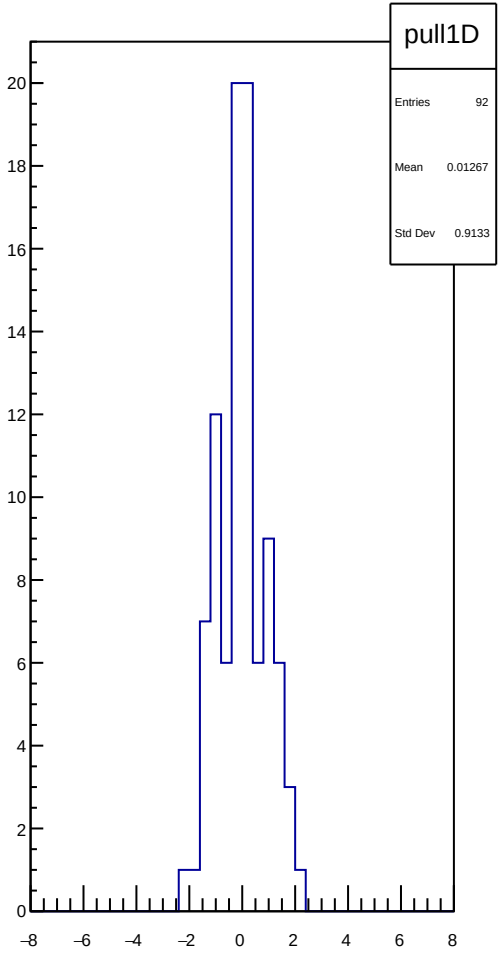

pull1D
Entries 92
Mean −0.02706
Std Dev 0.8985

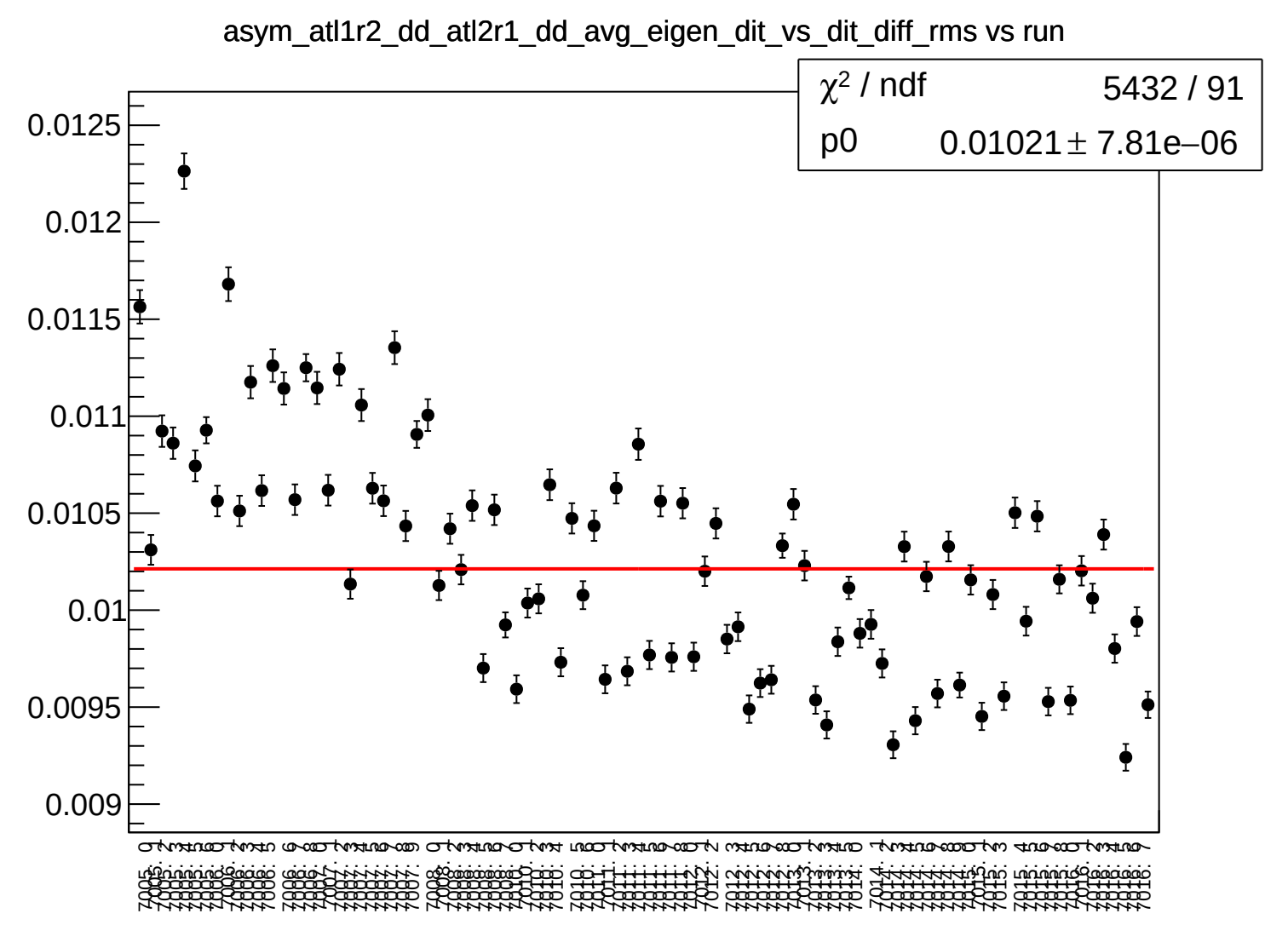

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.347e+05 / 91
p0 43.66 ± 0.03473
80
70
60
50
40
30
20

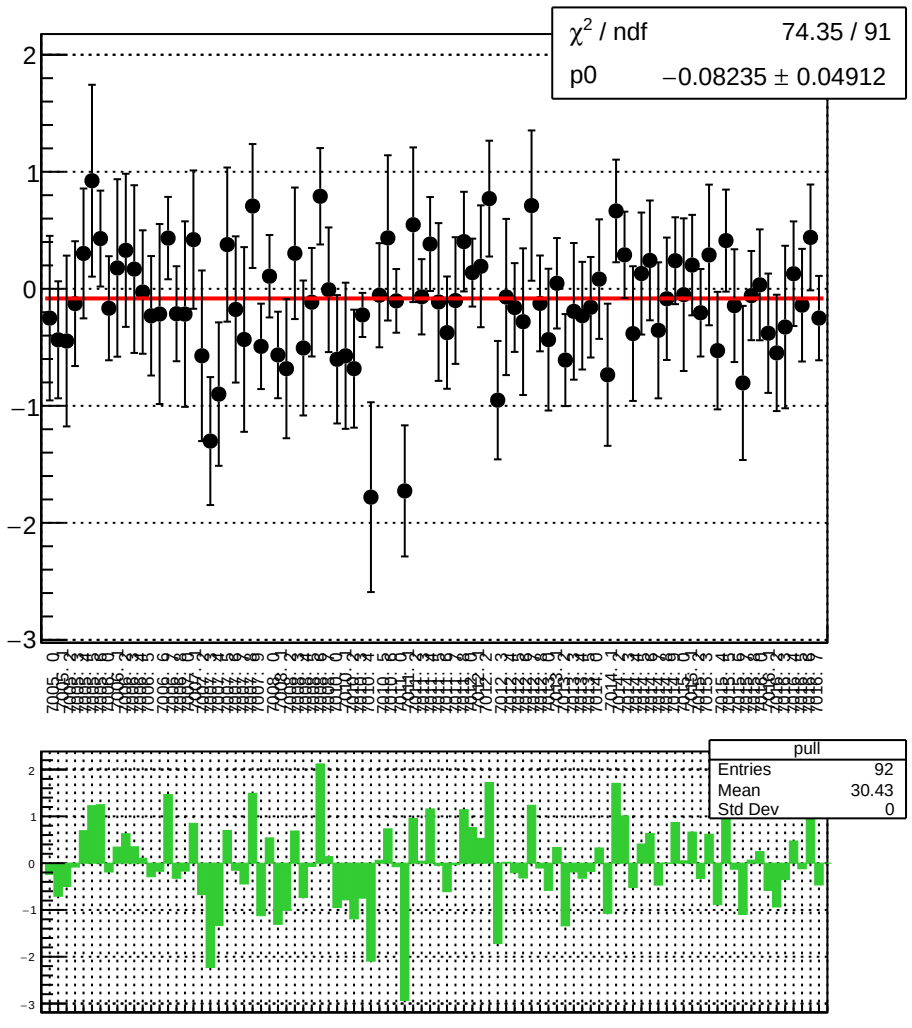

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.34 / 91
p0 −0.08233 ± 0.04911
pull
Entries 92
Mean 30.44
Std Dev 0
pull1D
Entries 92
Mean −0.02706
Std Dev 0.8985

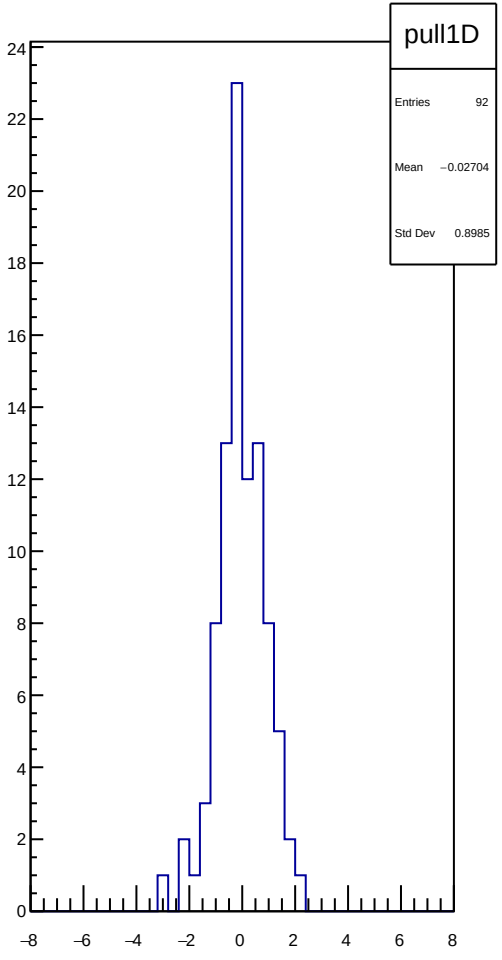

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.347e+05 / 91
p0 43.66 ± 0.03473
80
70
60
50
40
30
20

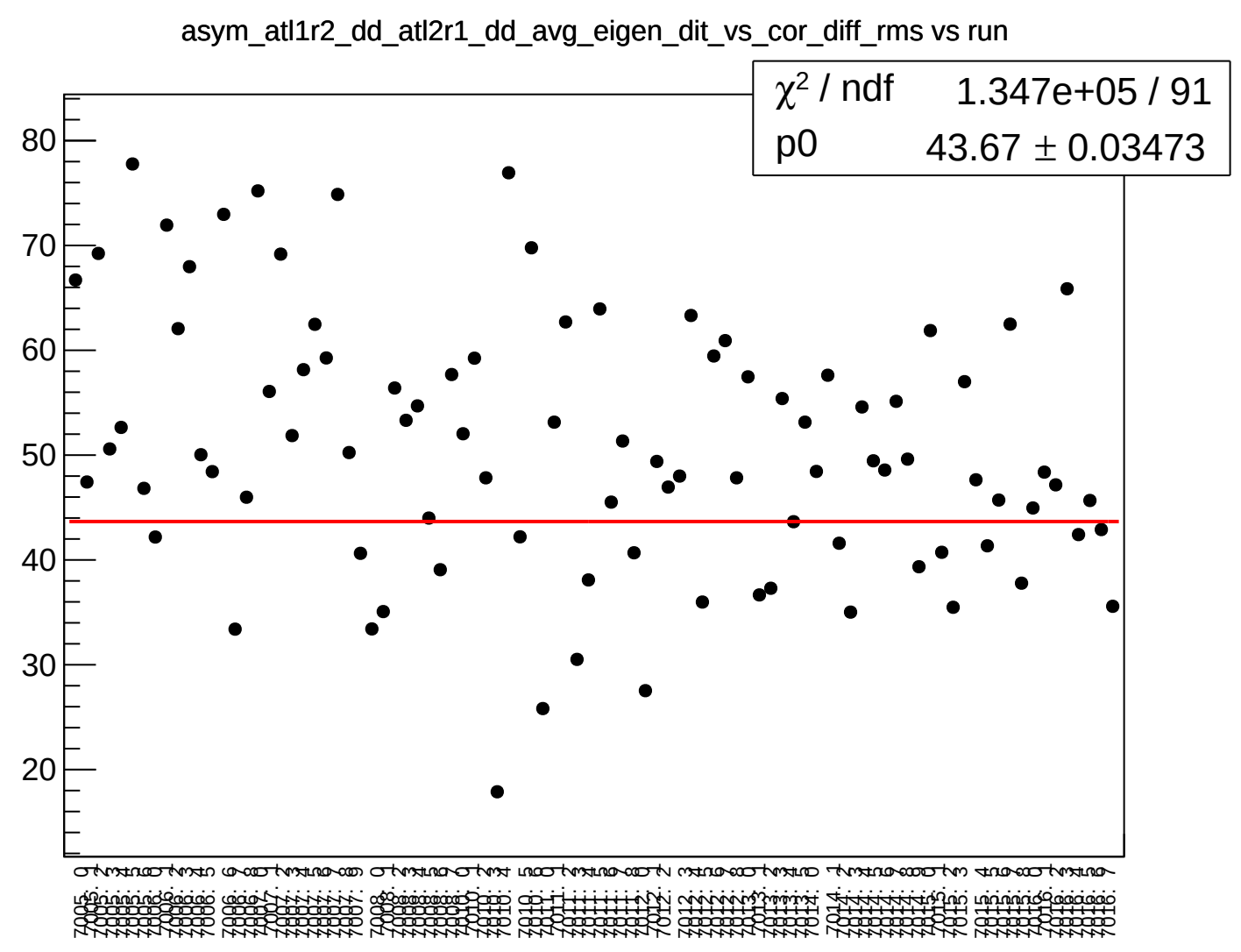

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.75 / 91
p0 −1.123e−05 ± 1.105e−05
pull
Entries 92
Mean −2.64
Std Dev 62.97

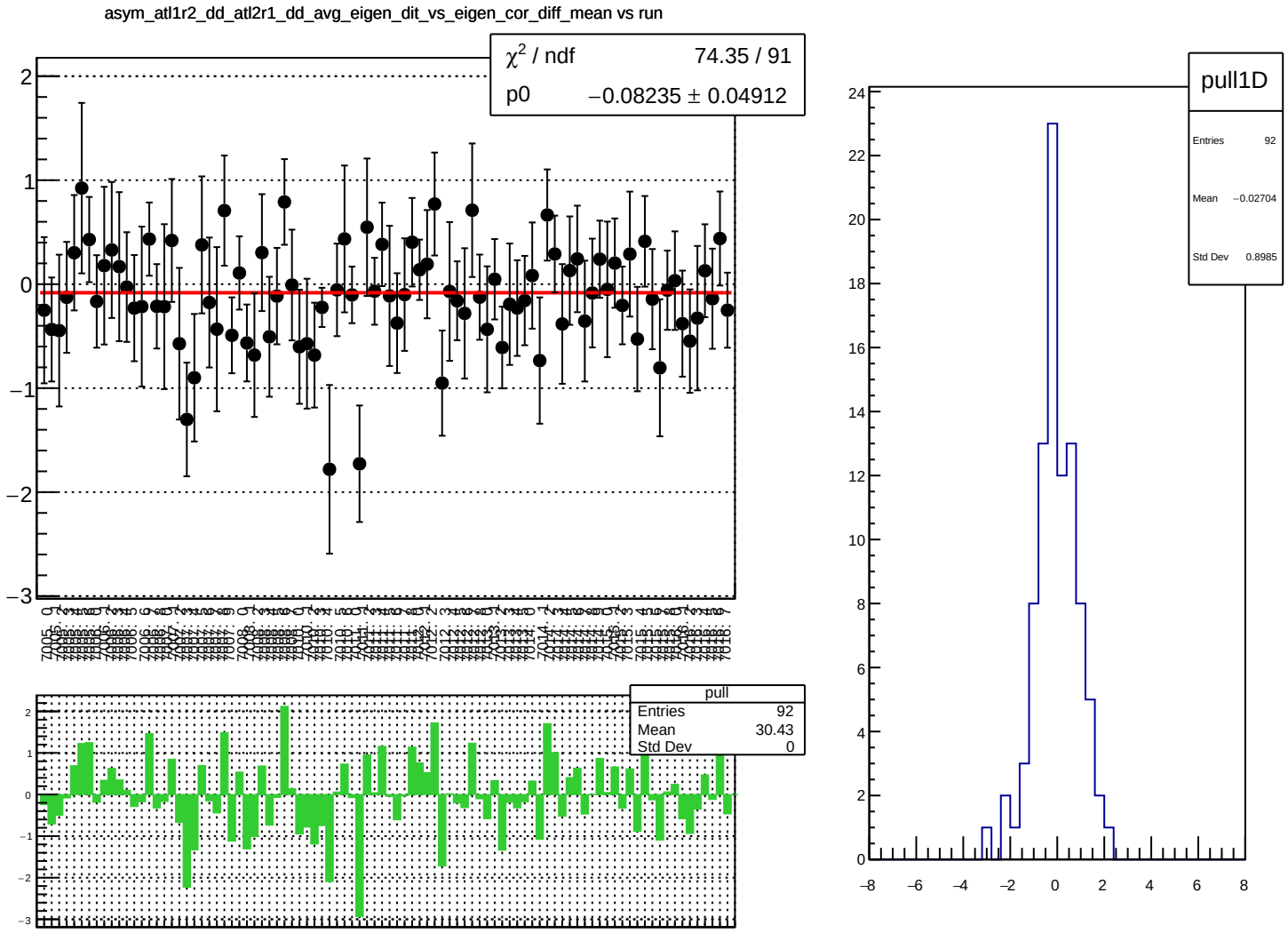

pull1D
Entries 92
Mean 0.01267
Std Dev 0.9133

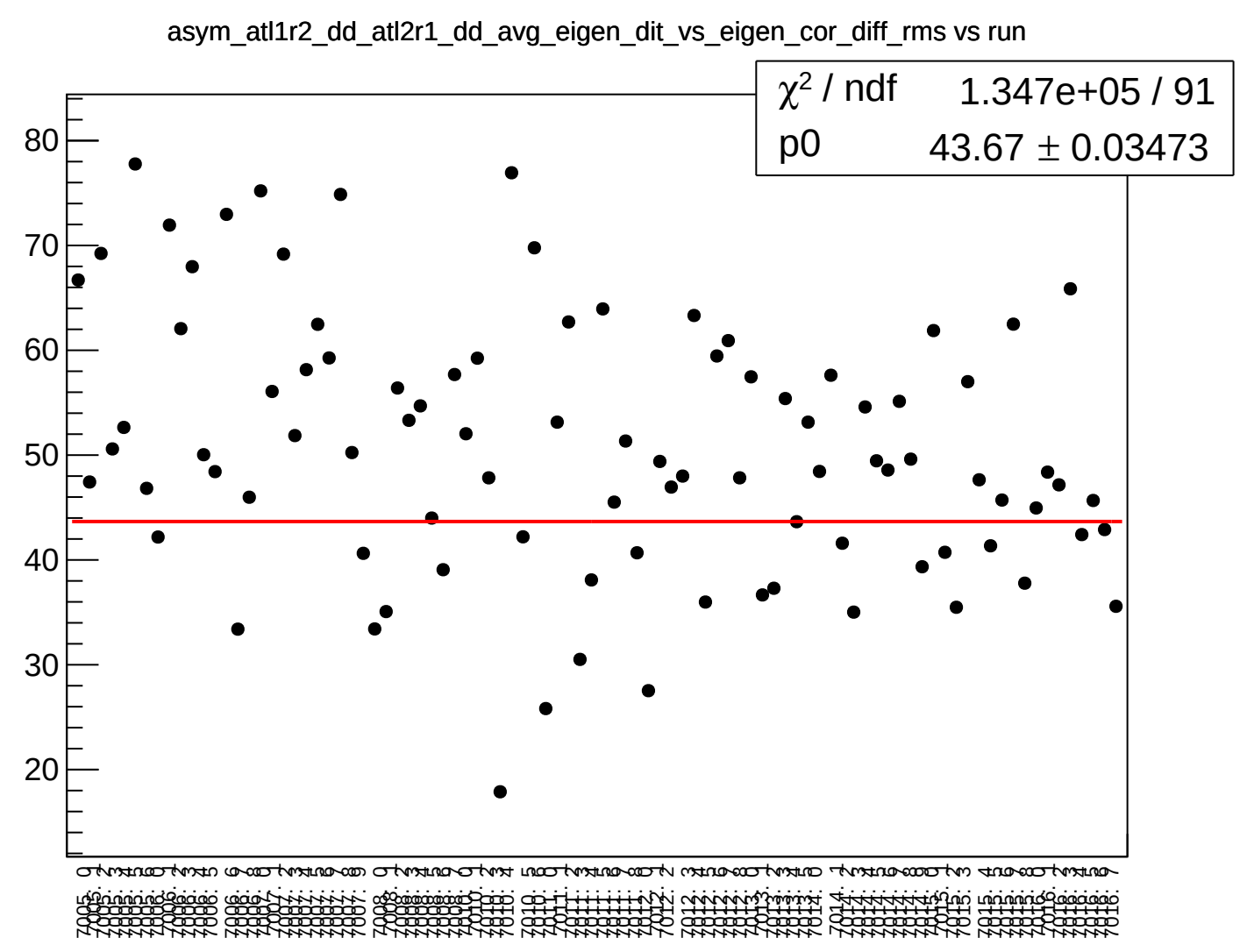

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5432 / 91
p0 0.01021 ± 7.81e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

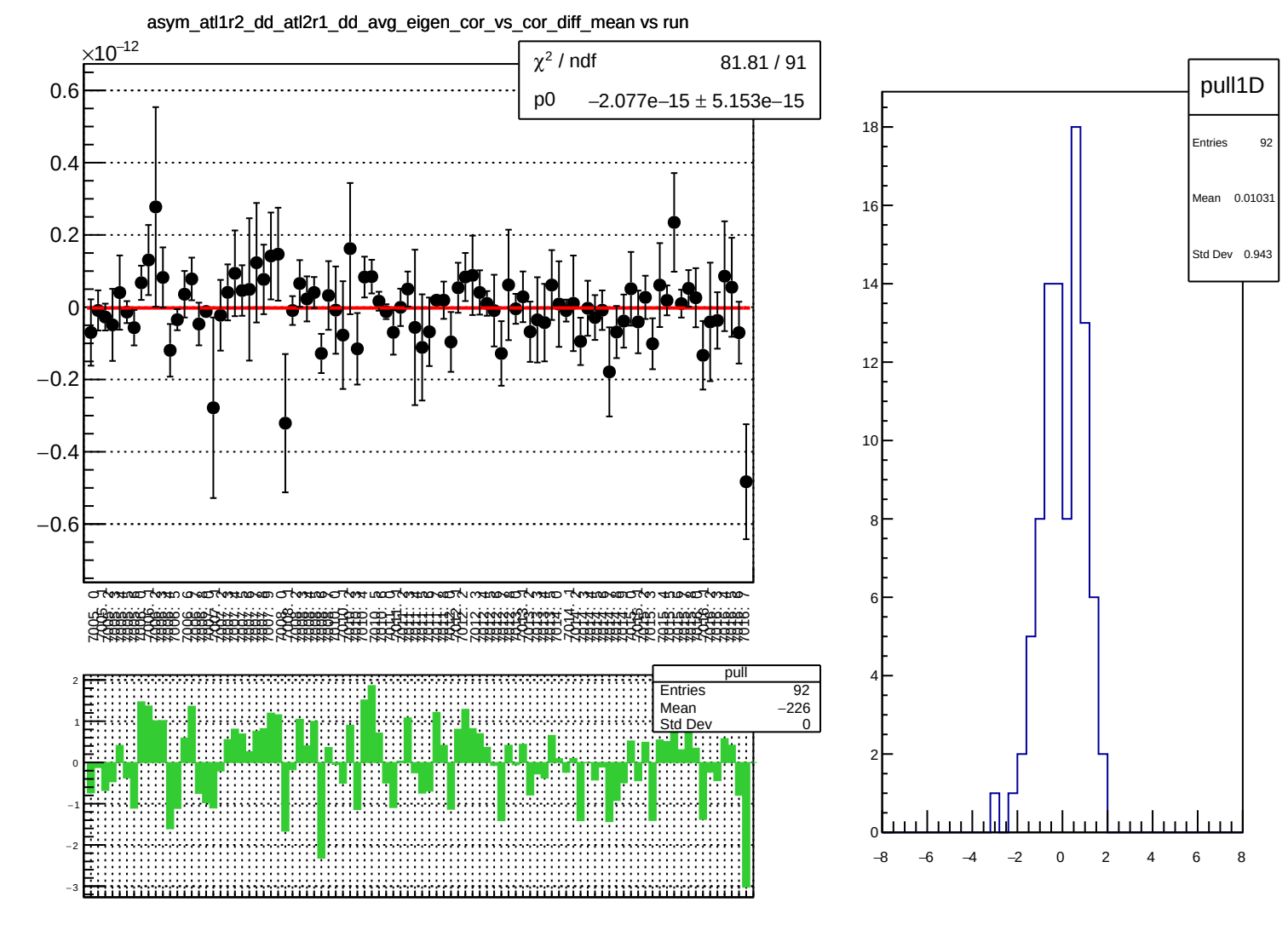

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.35 / 91
p0 −0.08235 ± 0.04912
pull
Entries 92
Mean 30.43
Std Dev 0

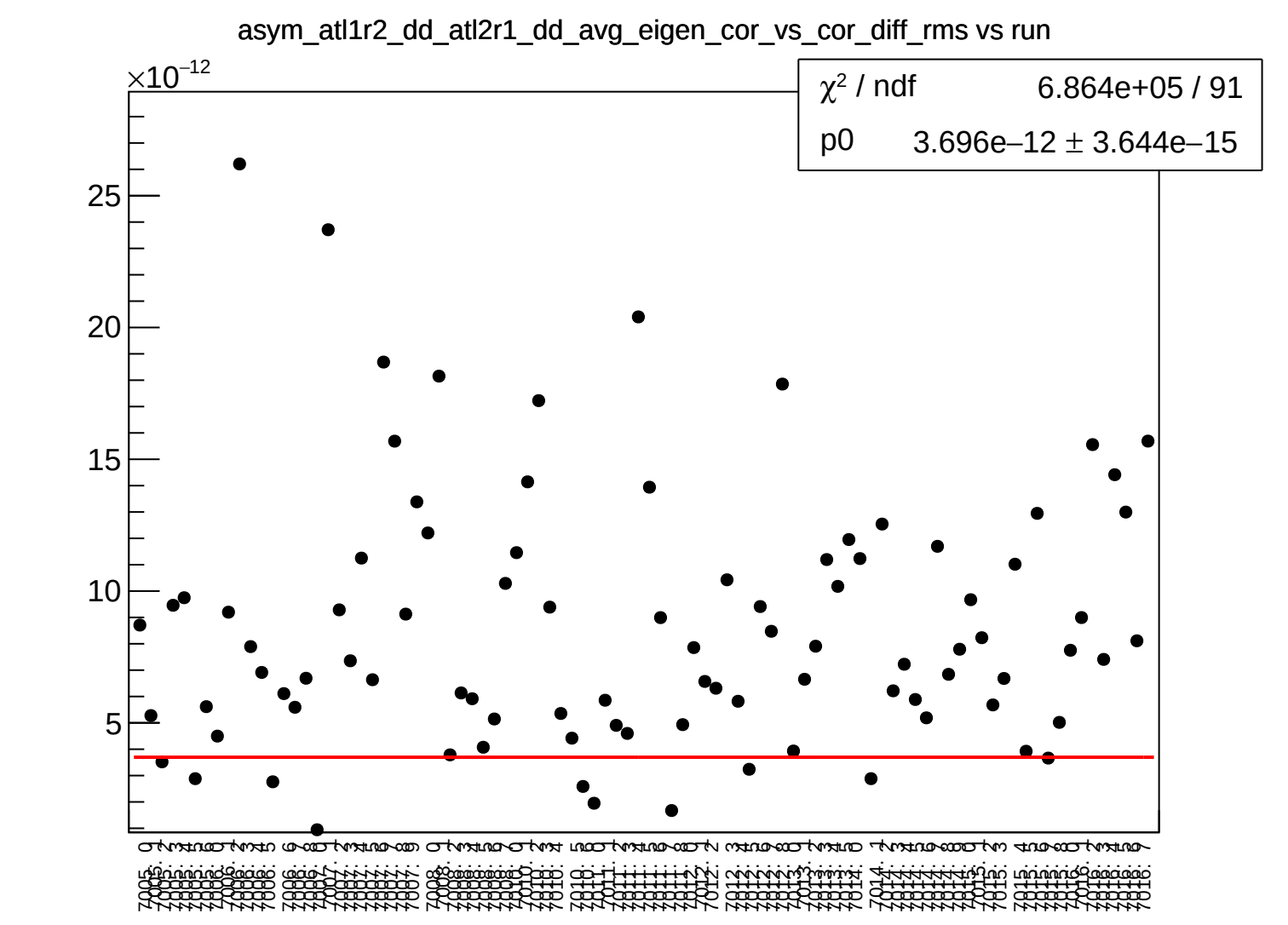

pull1D
Entries 92
Mean −0.02704
Std Dev 0.8985

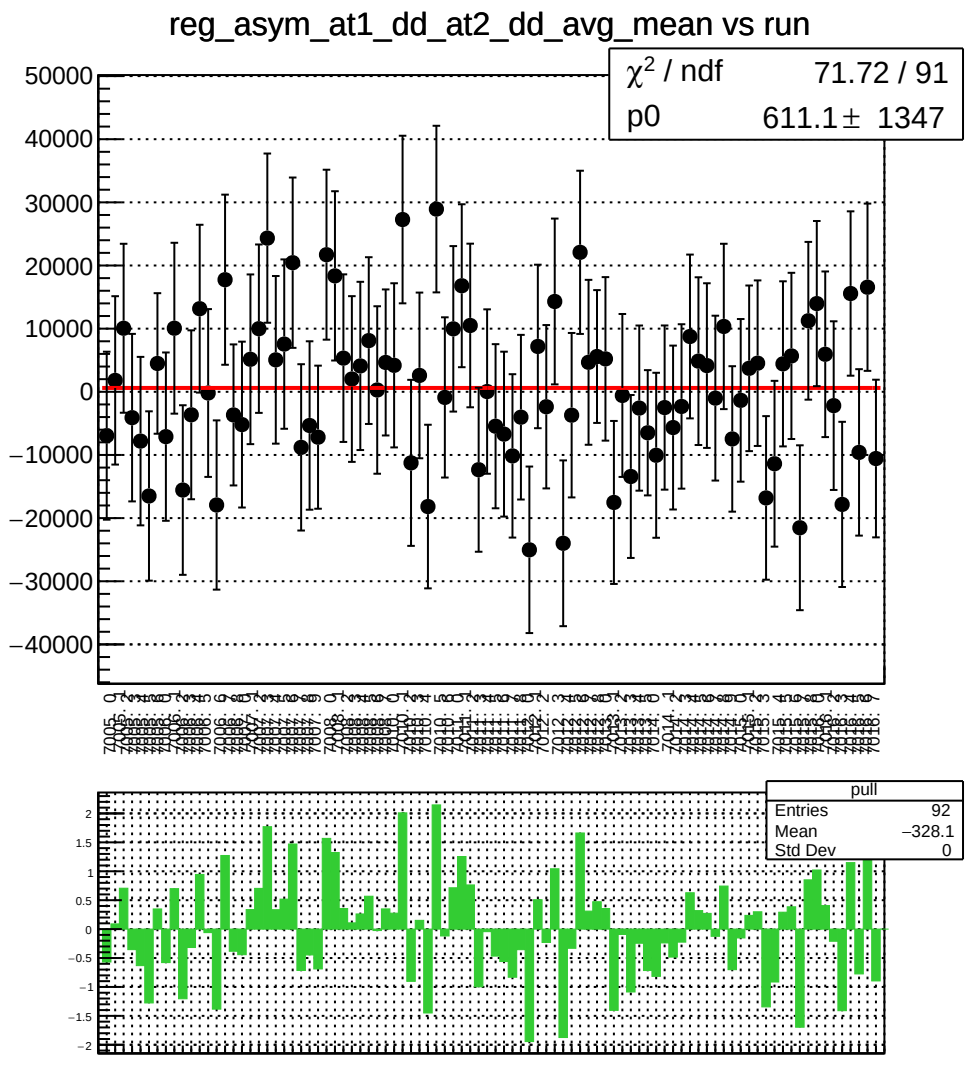

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.347e+05 / 91
p0 43.67 ± 0.03473
80
70
60
50
40
30
20

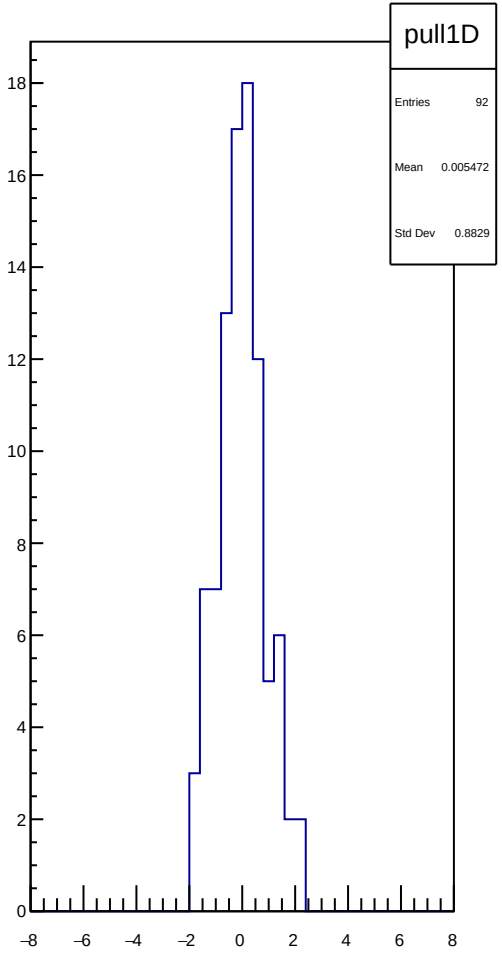

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.35 / 91
p0 −0.08235 ± 0.04912
pull
Entries 92
Mean 30.43
Std Dev 0
pull1D
Entries 92
Mean −0.02704
Std Dev 0.8985

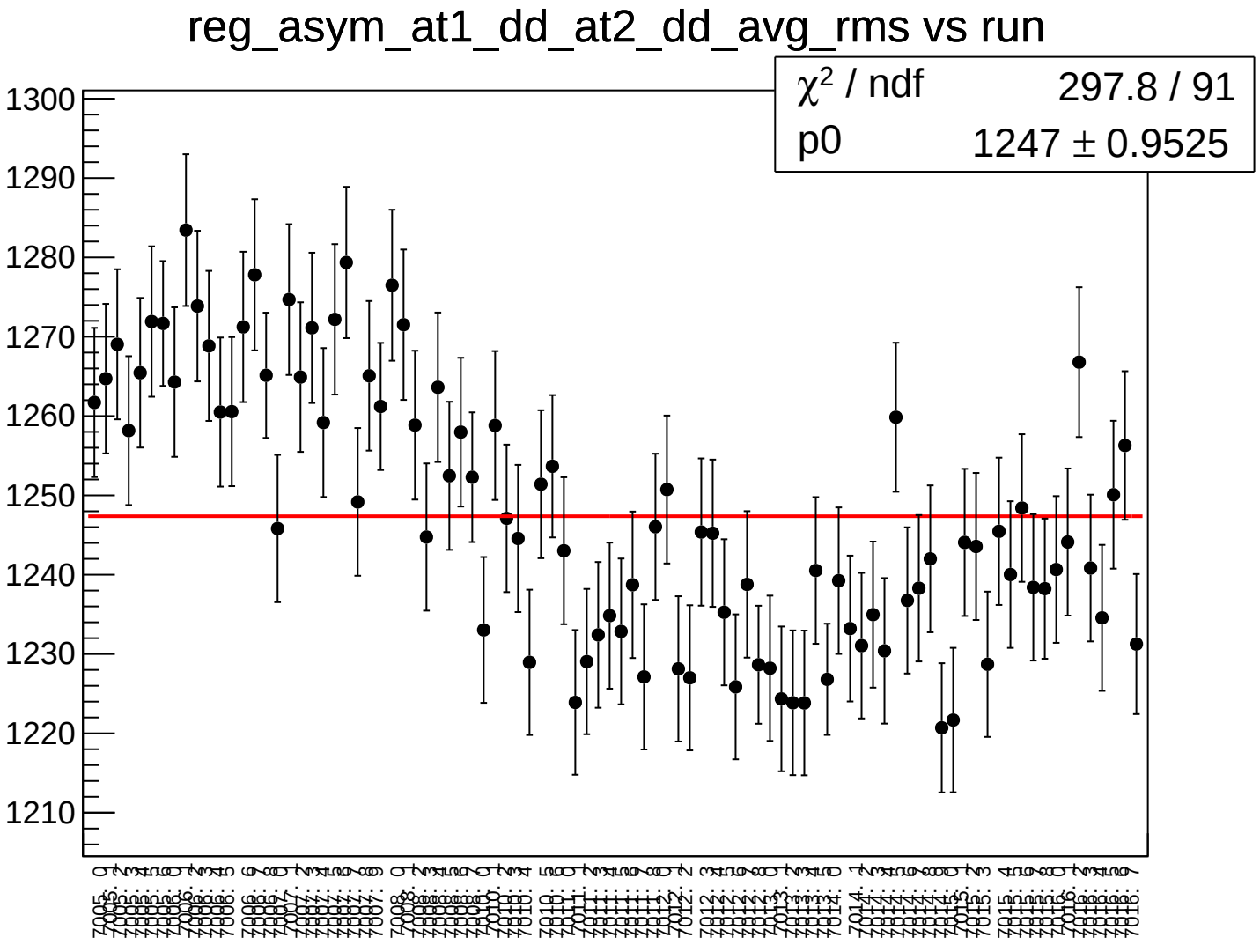

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.347e+05 / 91
p0 43.67 ± 0.03473
80
70
60
50
40
30
20

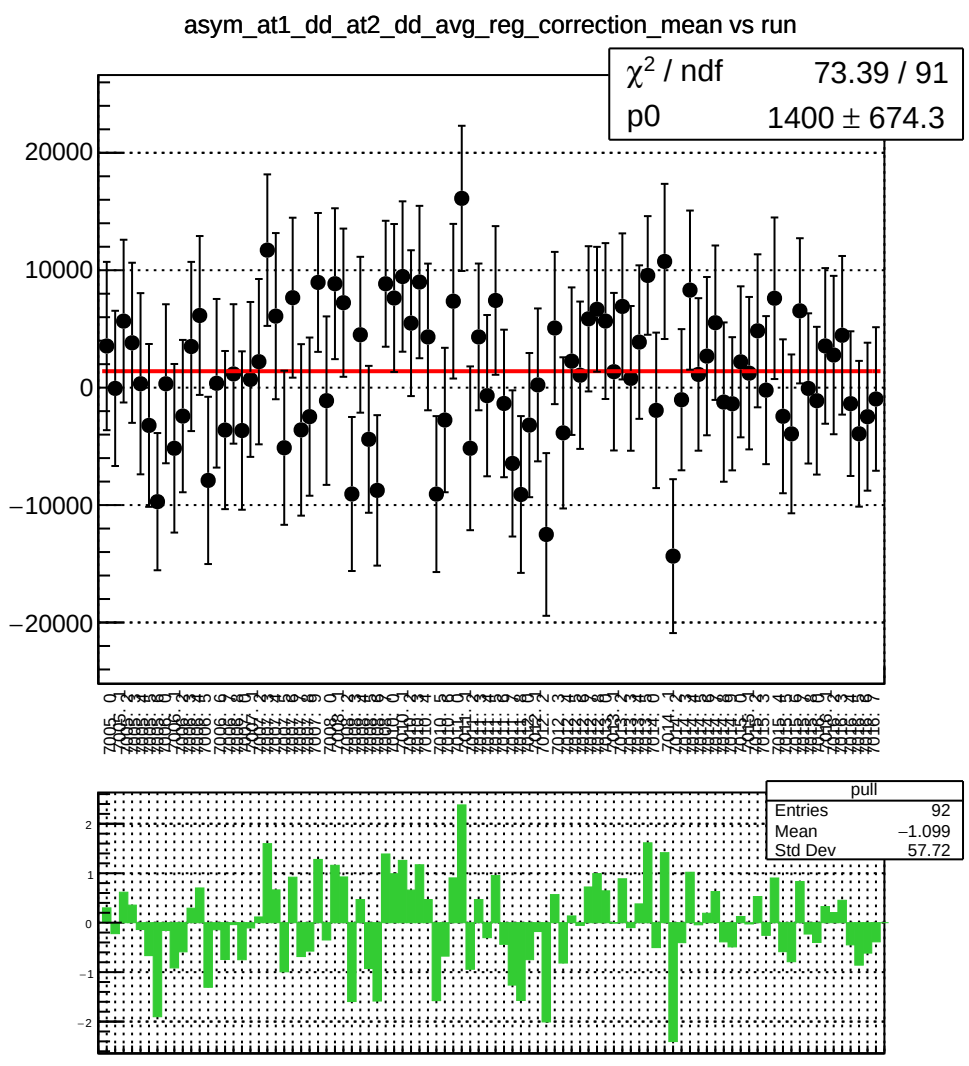

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 81.81 / 91
p0 −2.077e−15 ± 5.153e−15
pull
Entries 92
Mean −226
Std Dev 0
pull1D
Entries 92
Mean 0.01031
Std Dev 0.943

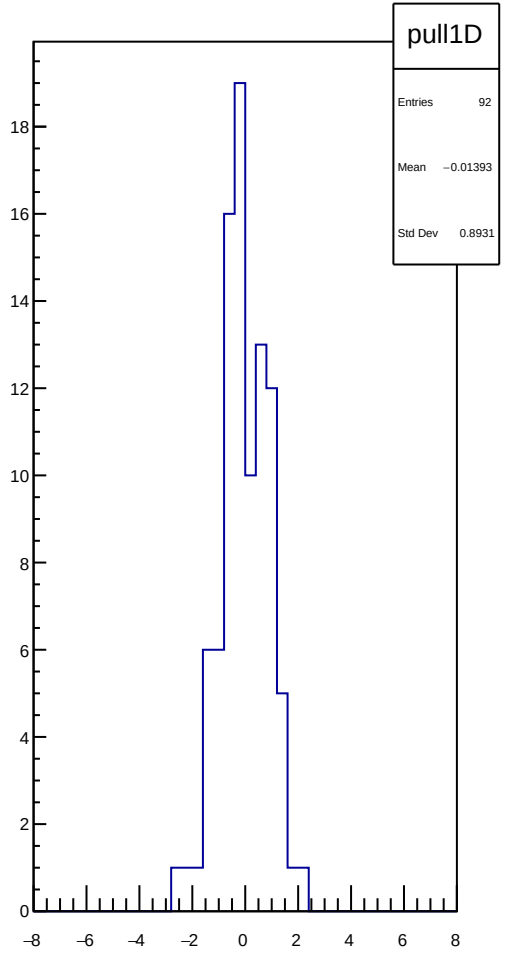

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.864e+05 / 91
p0 3.696e−12 ± 3.644e−15
25
20
15
10
5

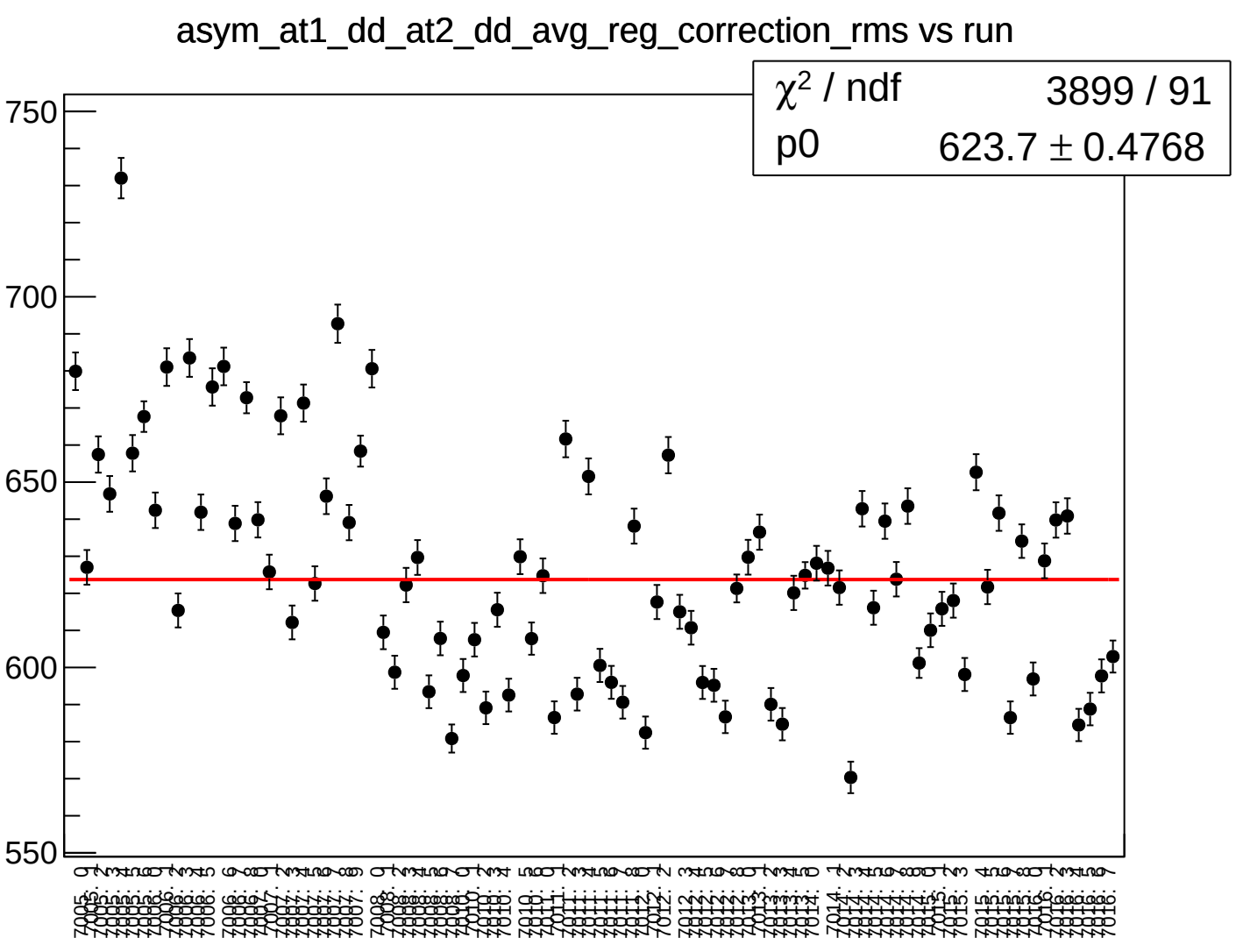

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 71.72 / 91
p0 611.1 ± 1347
pull
Entries 92
Mean −328.1
Std Dev 0

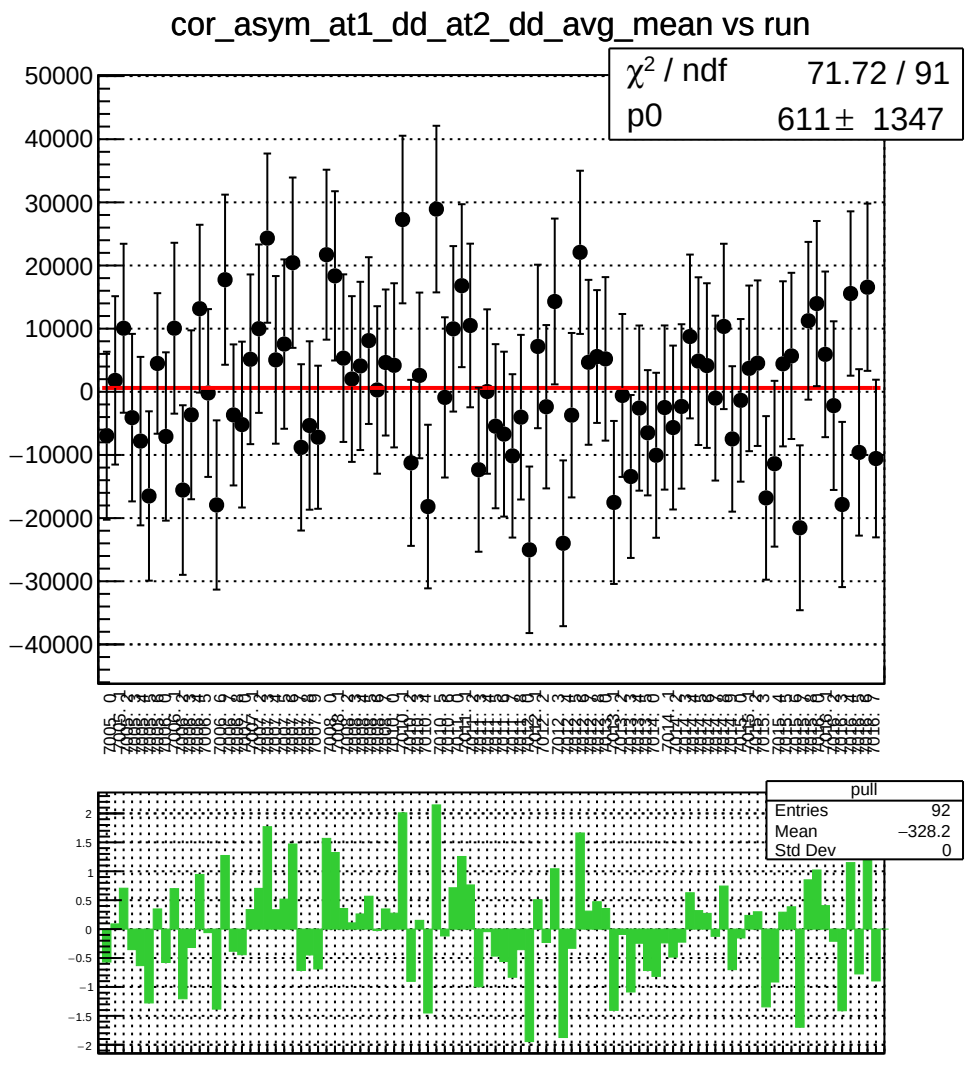

pull1D
Entries 92
Mean 0.005472
Std Dev 0.8829

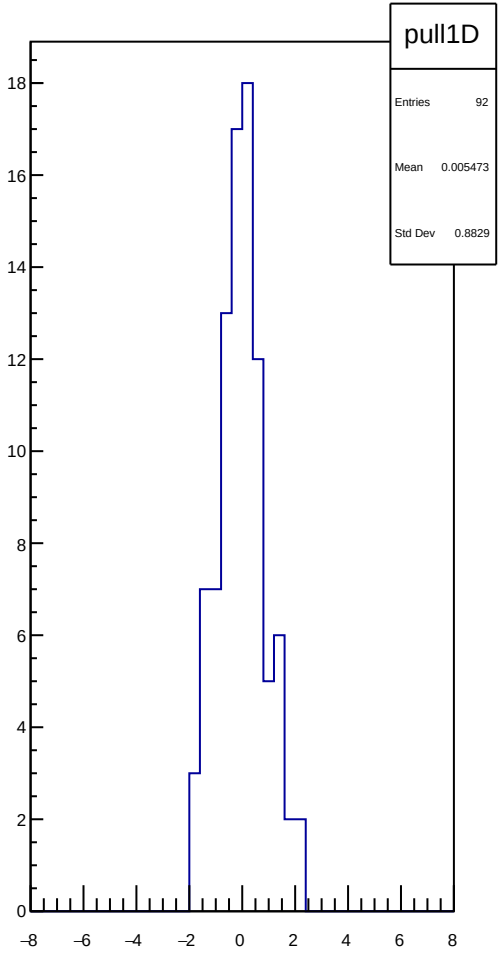

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 297.8 / 91
p0 1247 ± 0.9525
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

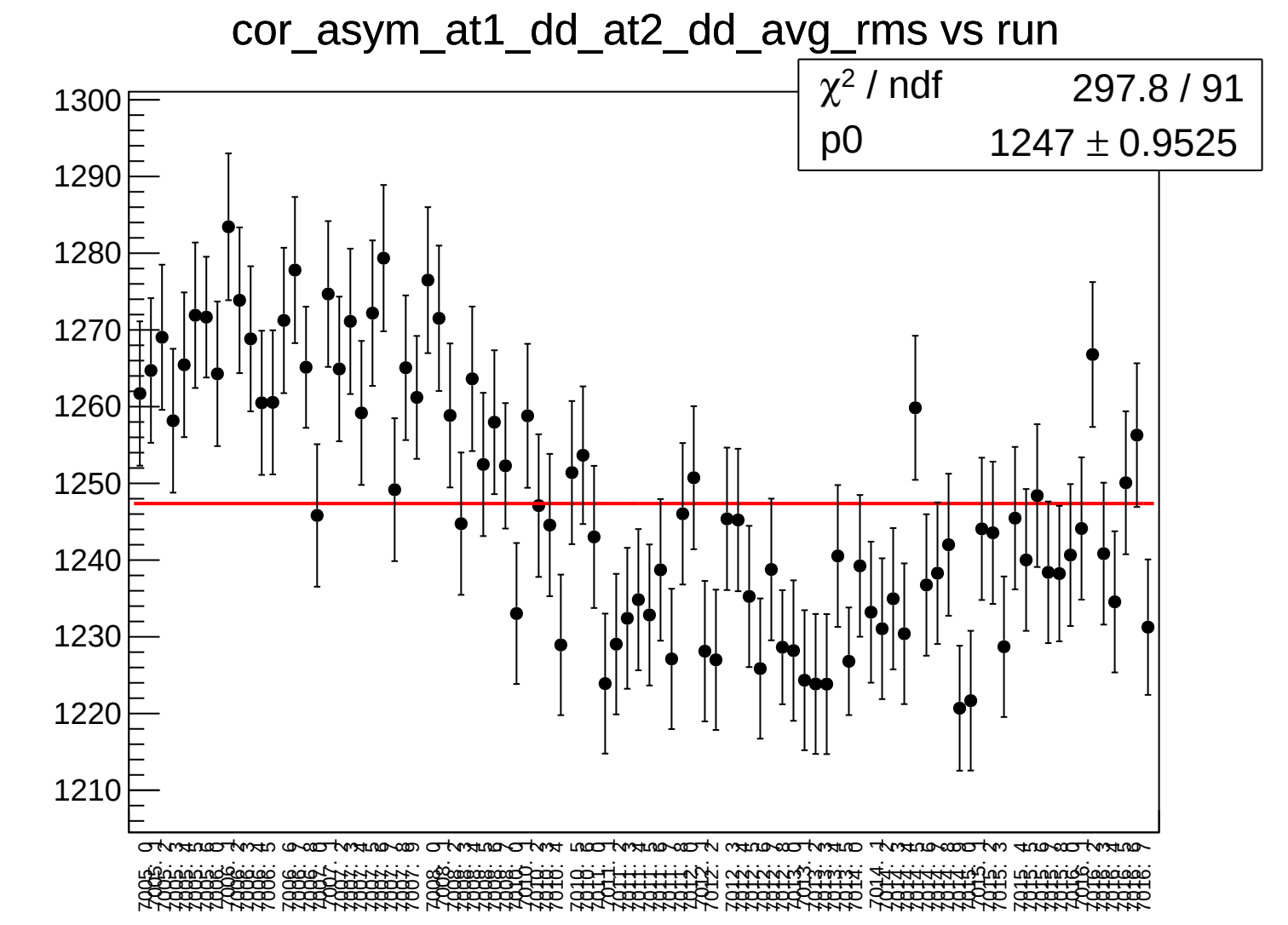

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 73.39 / 91
p0 1400 ± 674.3
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1.099
Std Dev 57.72
2
1
0
−1
−2

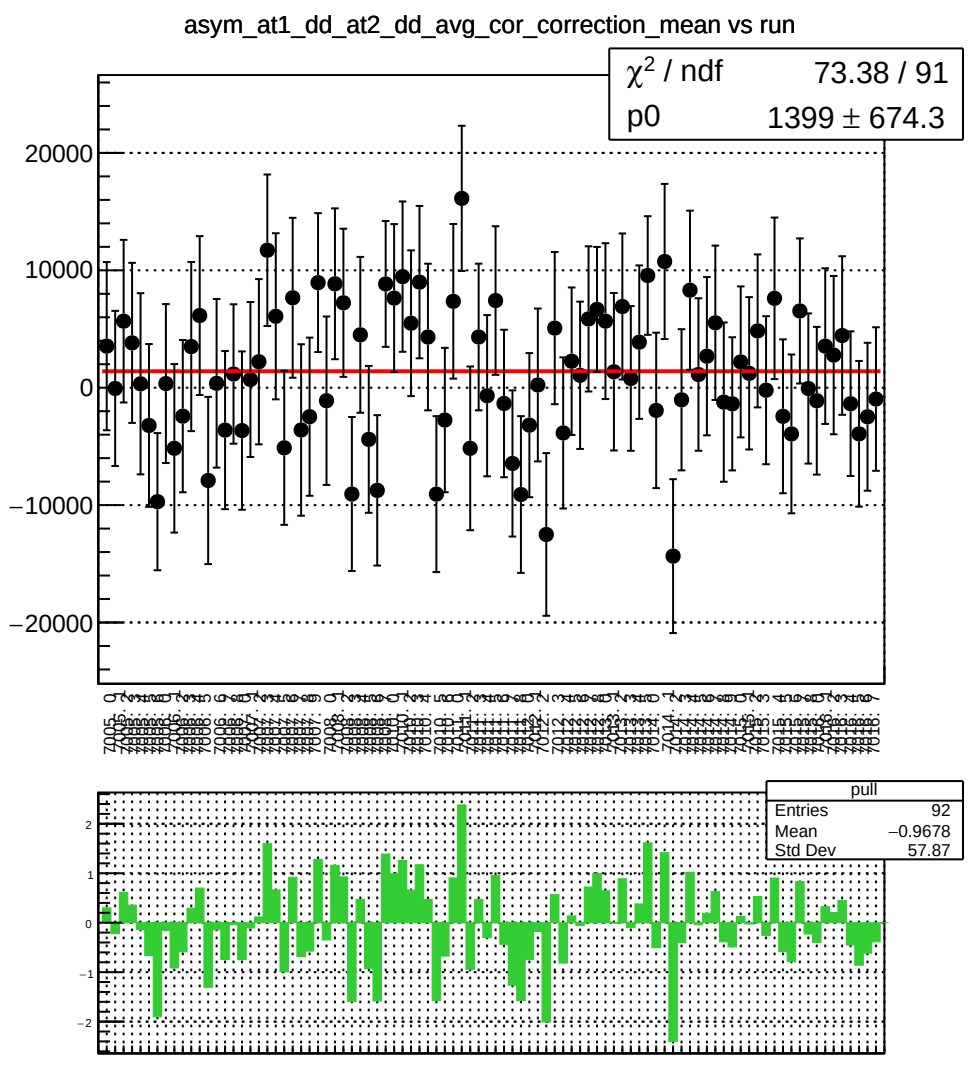

pull1D
Entries 92
Mean −0.01393
Std Dev 0.8931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

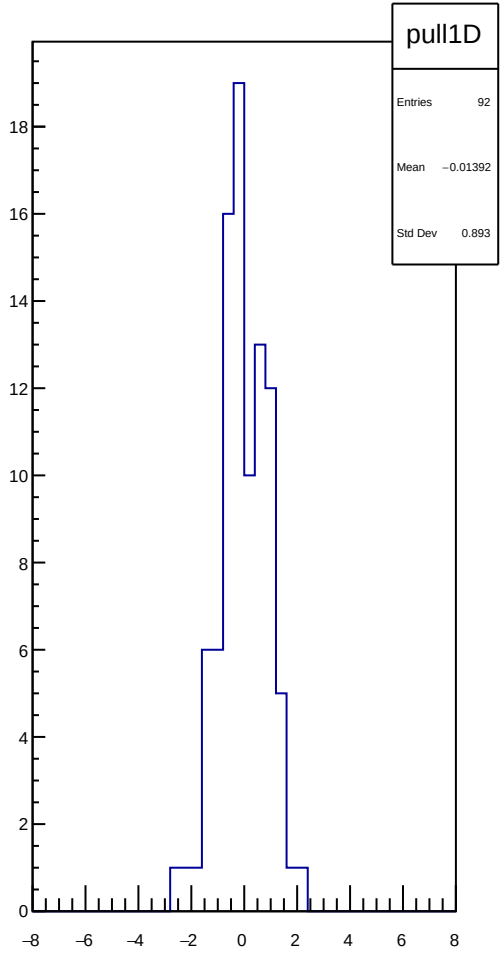

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 3899 / 91
p0 623.7 ± 0.4768
750
700
650
600
550

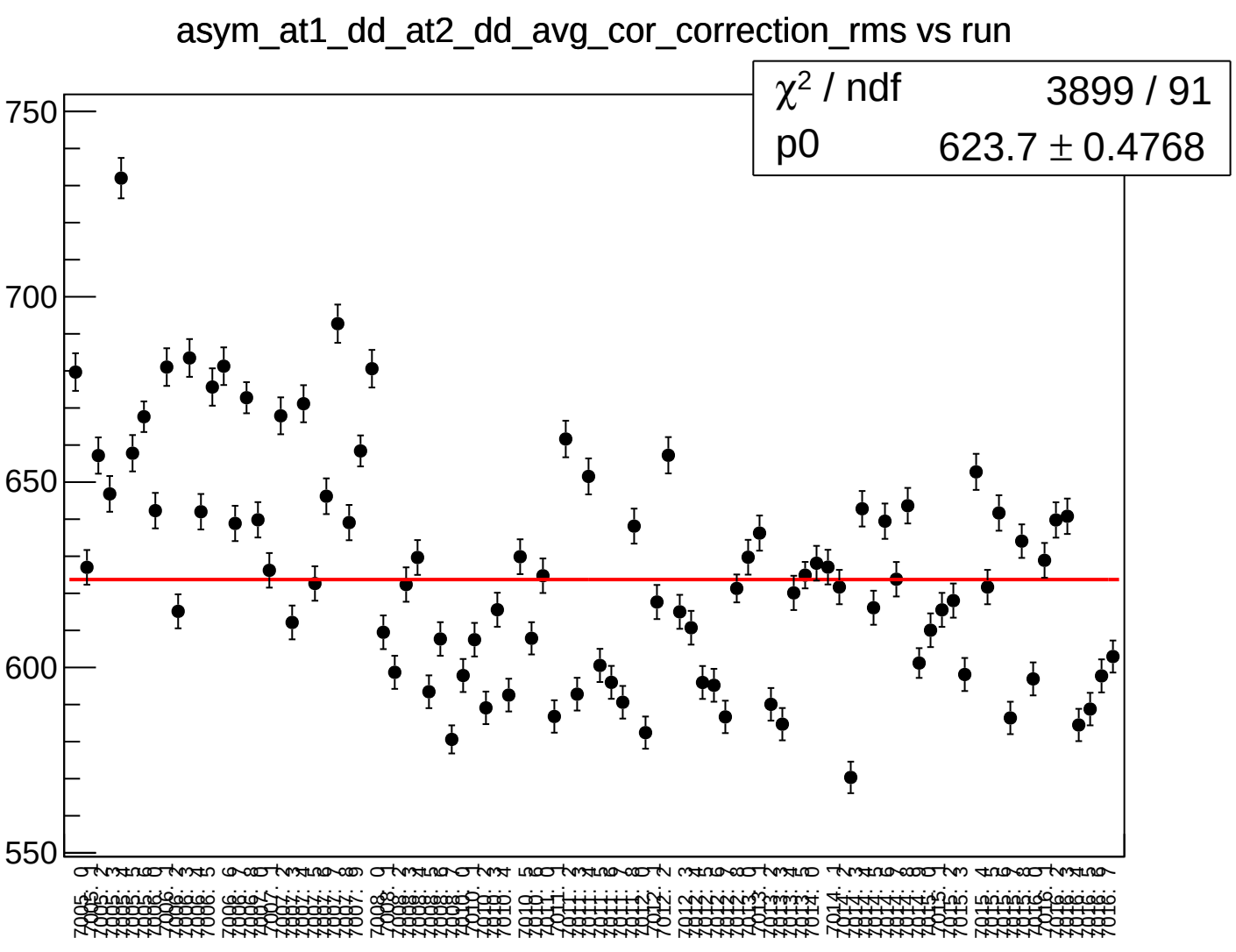

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 71.72 / 91
p0 611 ± 1347
pull
Entries 92
Mean −328.2
Std Dev 0

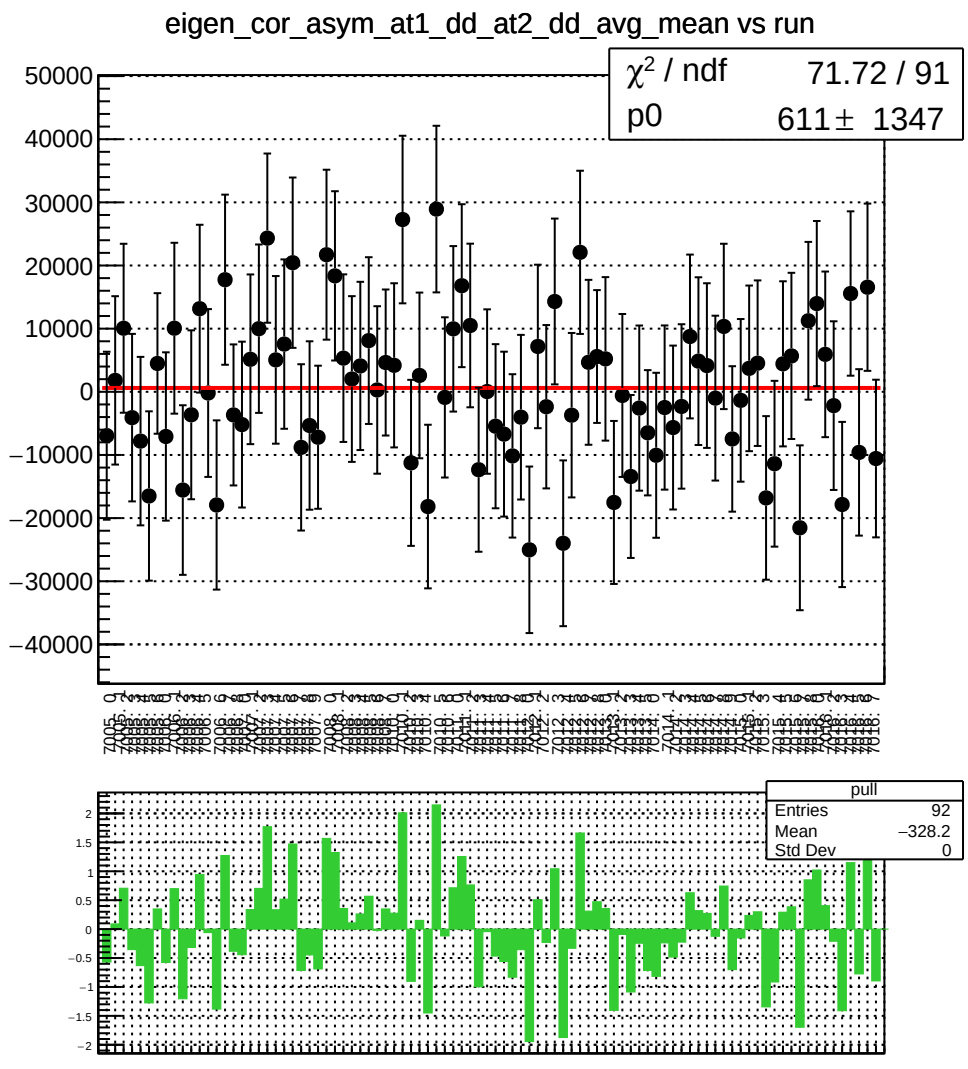

pull1D
Entries 92
Mean 0.005473
Std Dev 0.8829

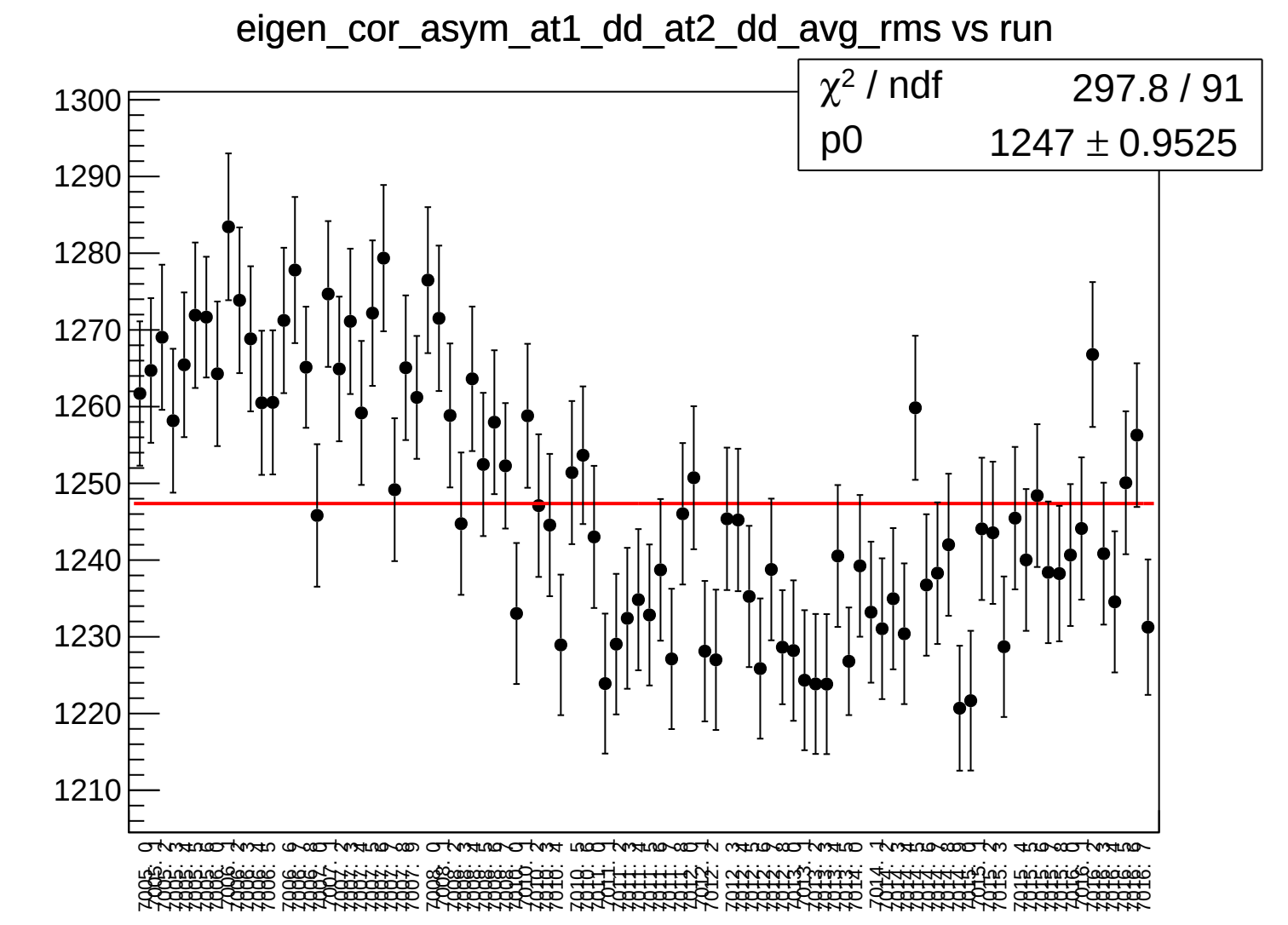

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 297.8 / 91
p0 1247 ± 0.9525
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

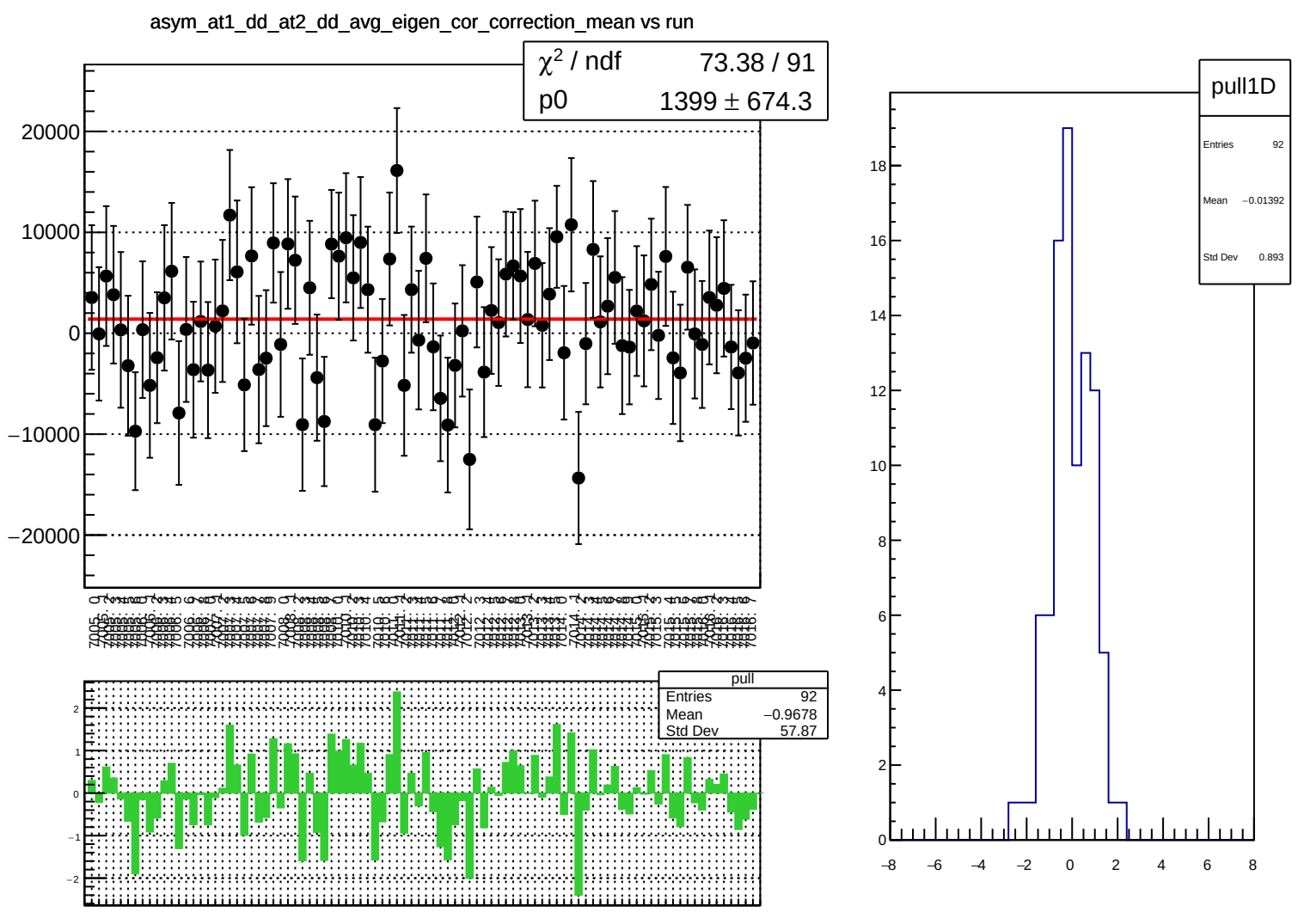

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 73.38 / 91
p0 1399 ± 674.3
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −0.9678
Std Dev 57.87
2
1
0
−1
−2

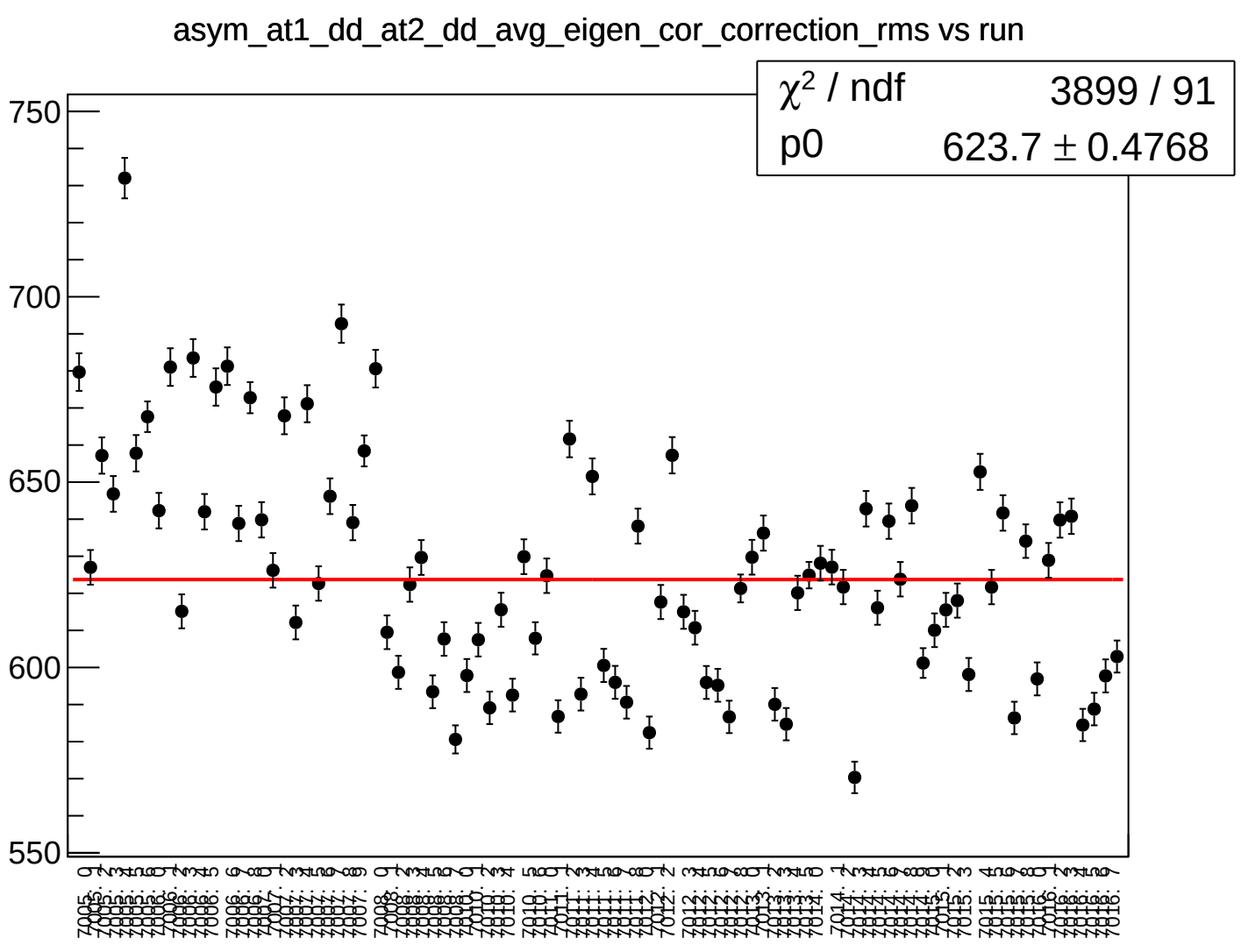

pull1D
Entries 92
Mean −0.01392
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

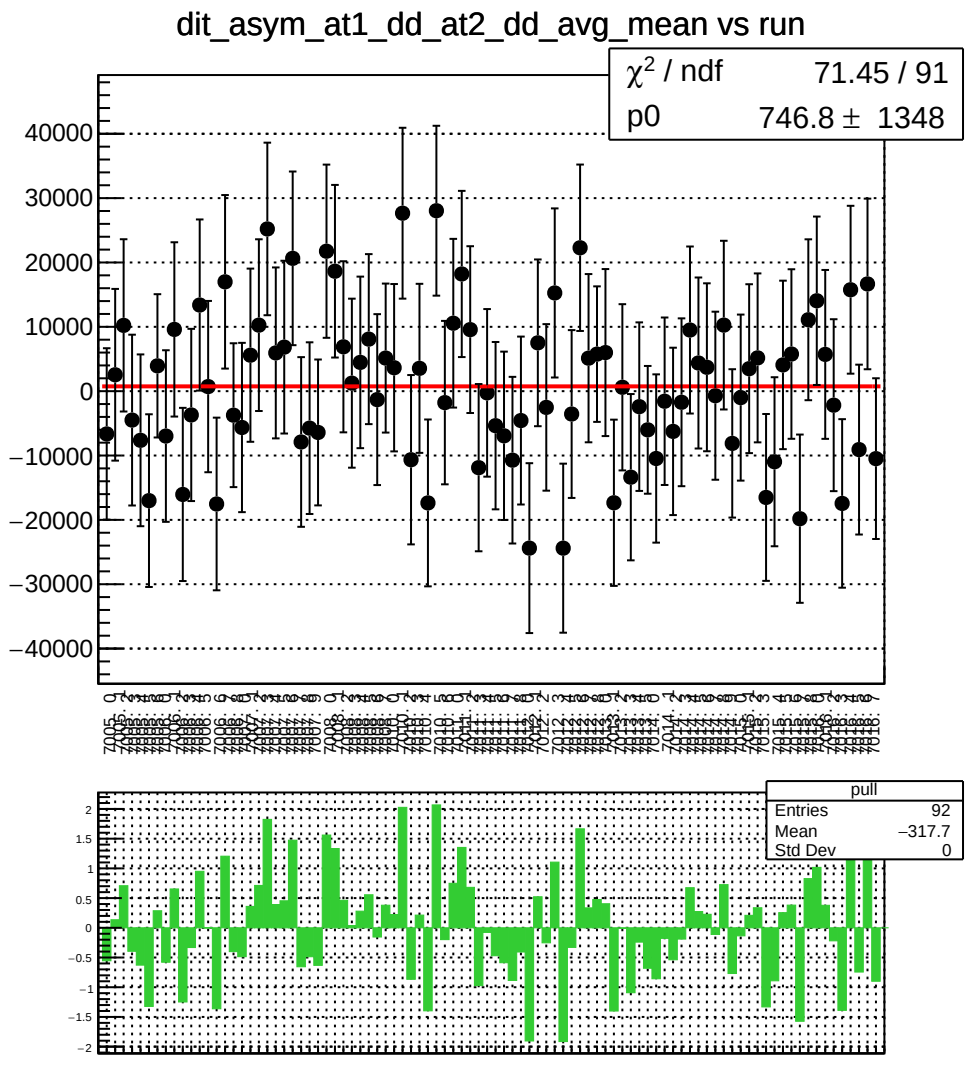

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 3899 / 91
p0 623.7 ± 0.4768
750
700
650
600
550

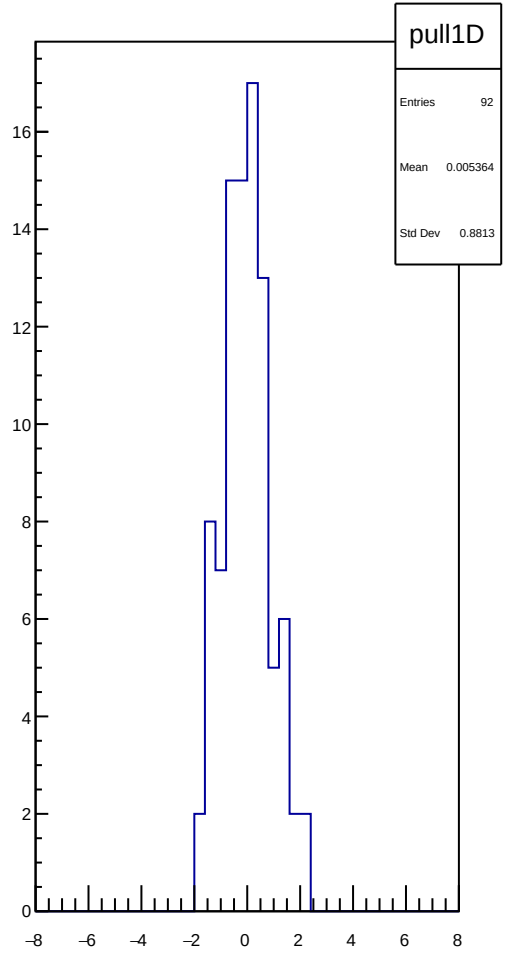

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 71.72 / 91
p0 611 ± 1347
pull
Entries 92
Mean −328.2
Std Dev 0
pull1D
Entries 92
Mean 0.005473
Std Dev 0.8829

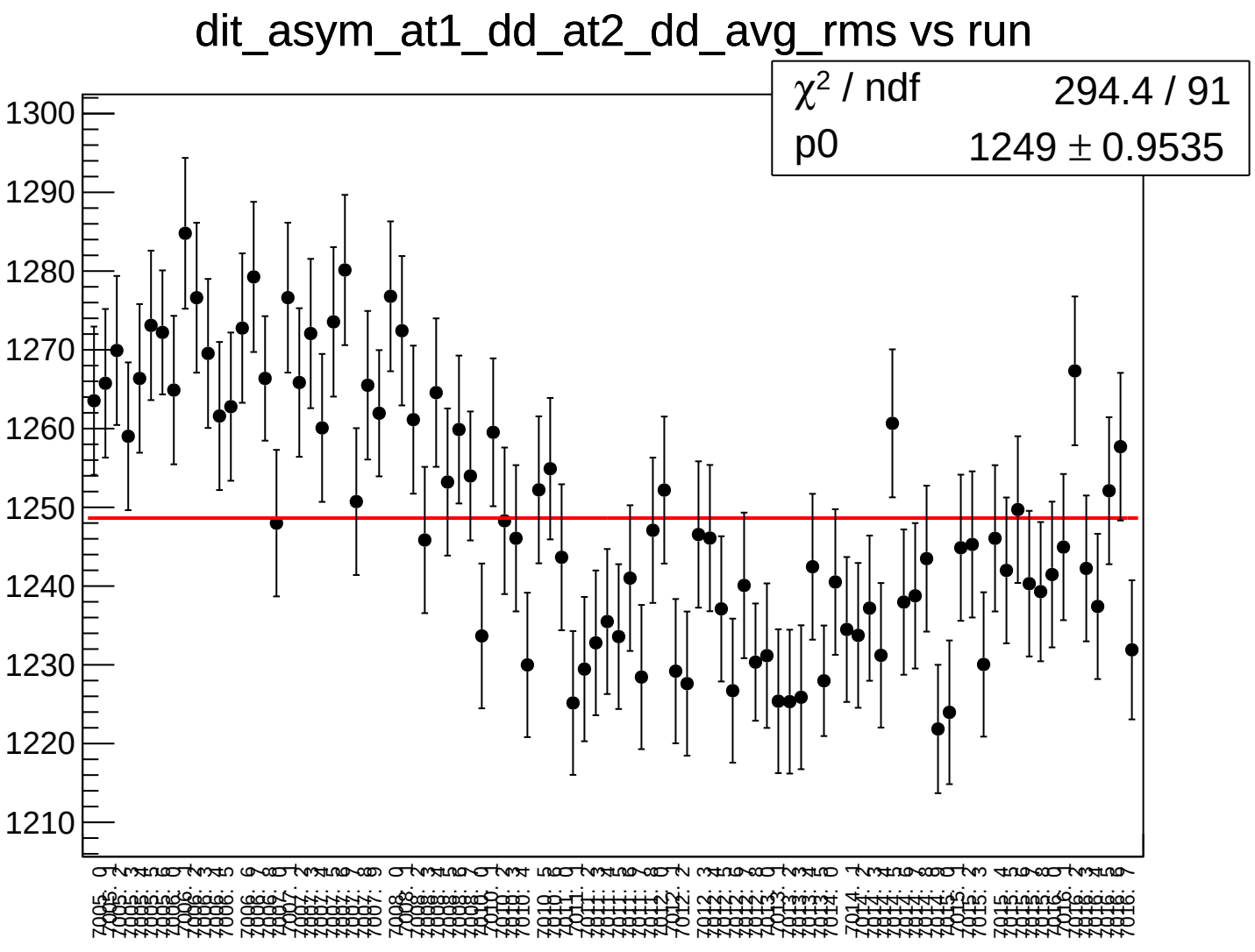

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 297.8 / 91
p0 1247 ± 0.9525
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

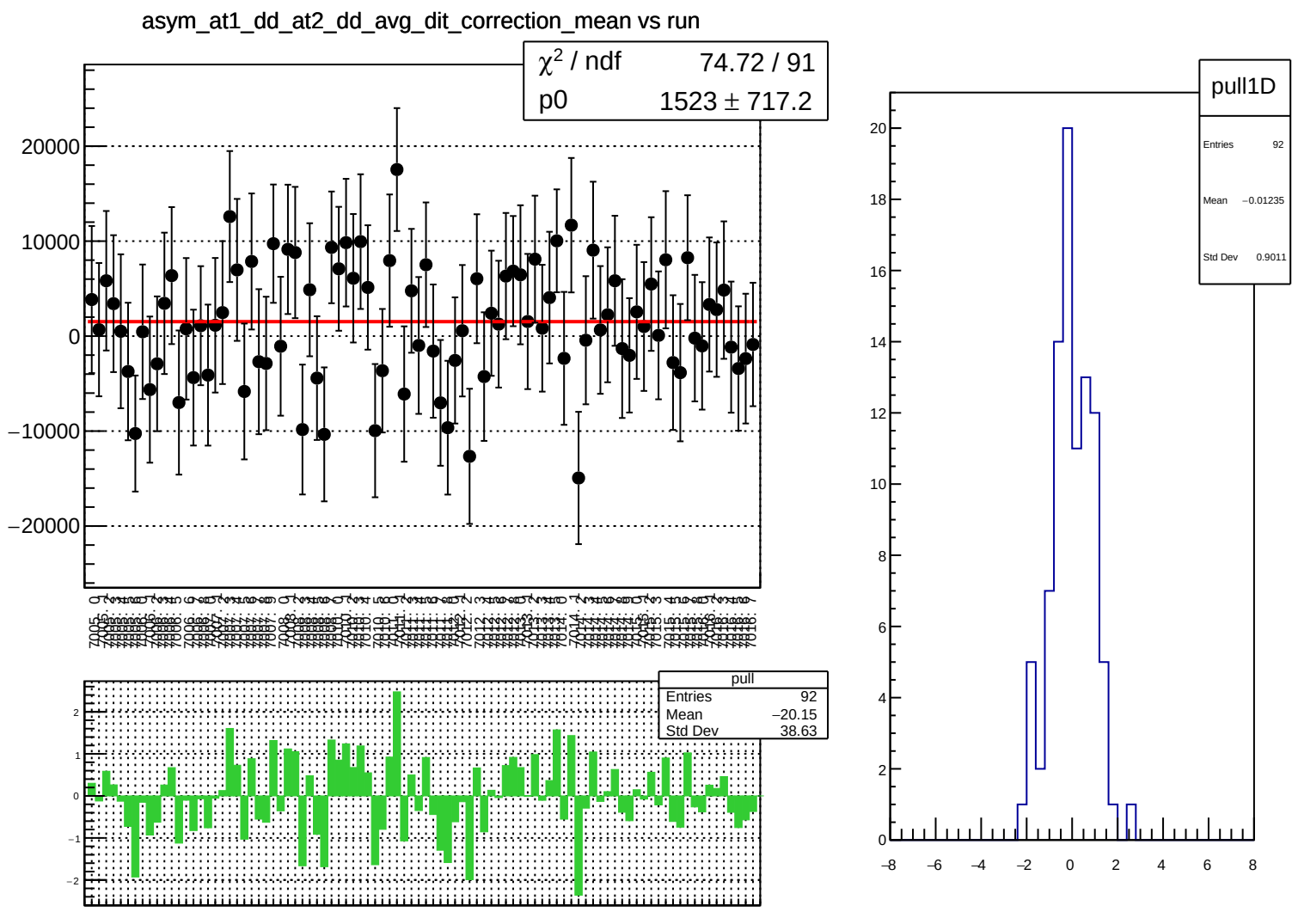

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.38 / 91
p0 1399 ± 674.3
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −0.9678
Std Dev 57.87
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01392
Std Dev 0.893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

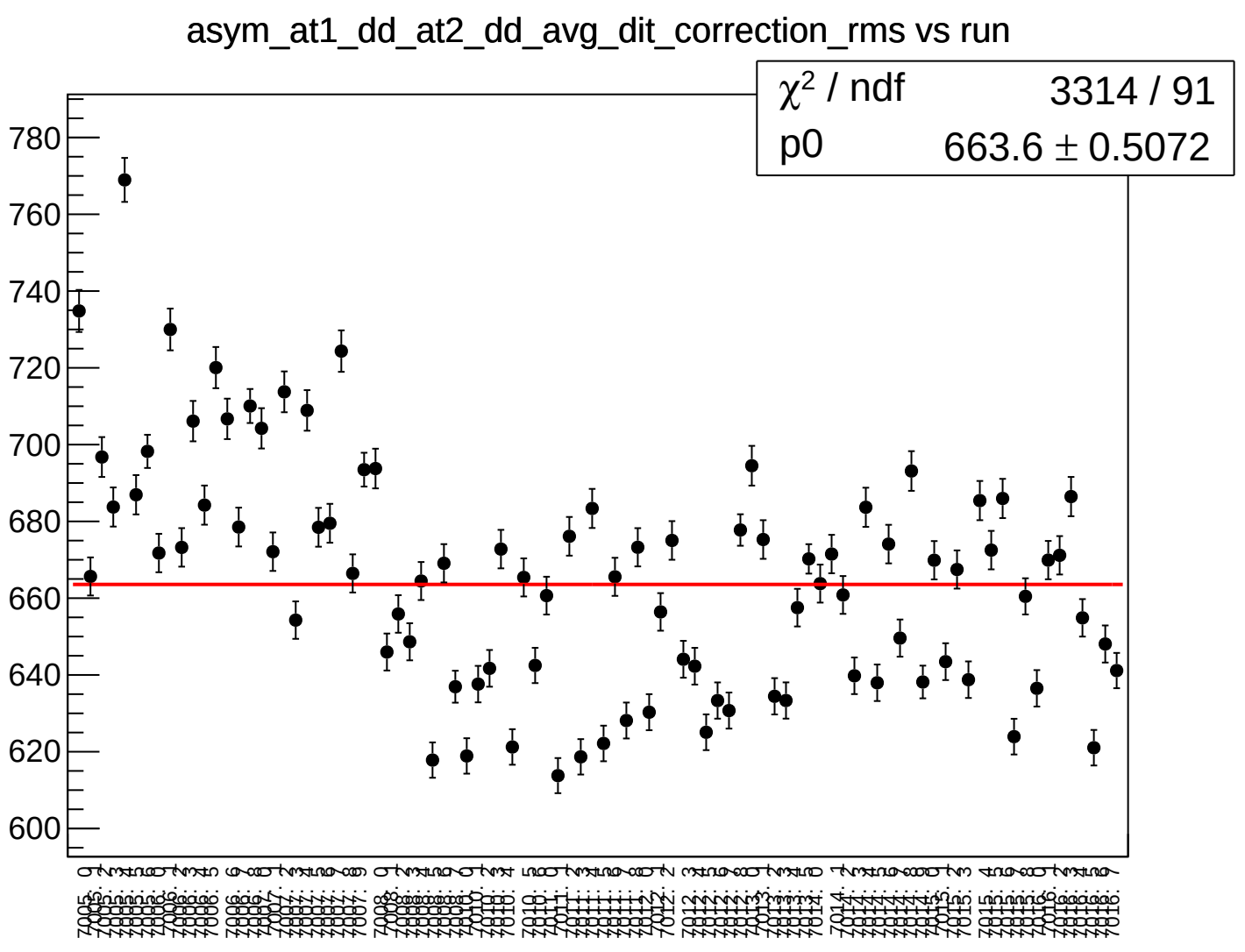

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3899 / 91
p0 623.7 ± 0.4768
750
700
650
600
550

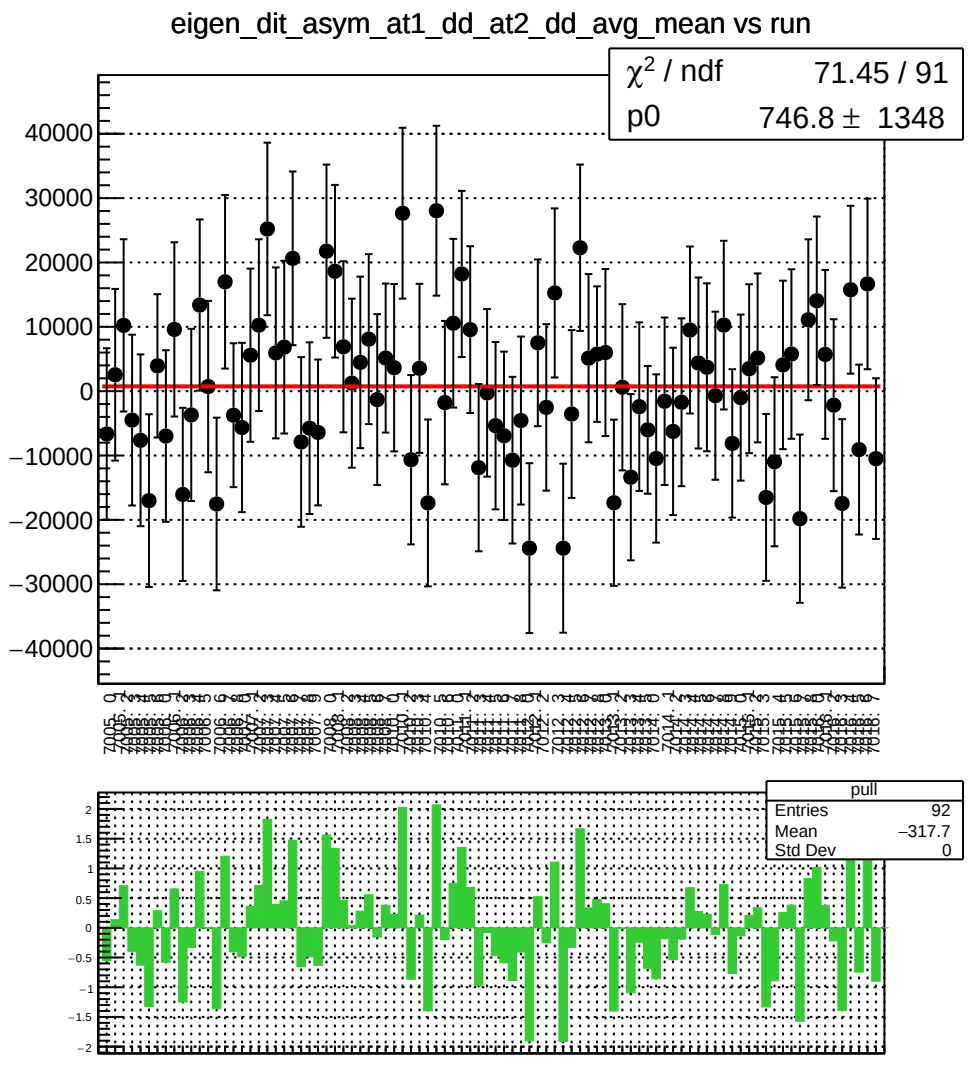

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 71.45 / 91
p0 746.8 ± 1348
pull
Entries 92
Mean −317.7
Std Dev 0

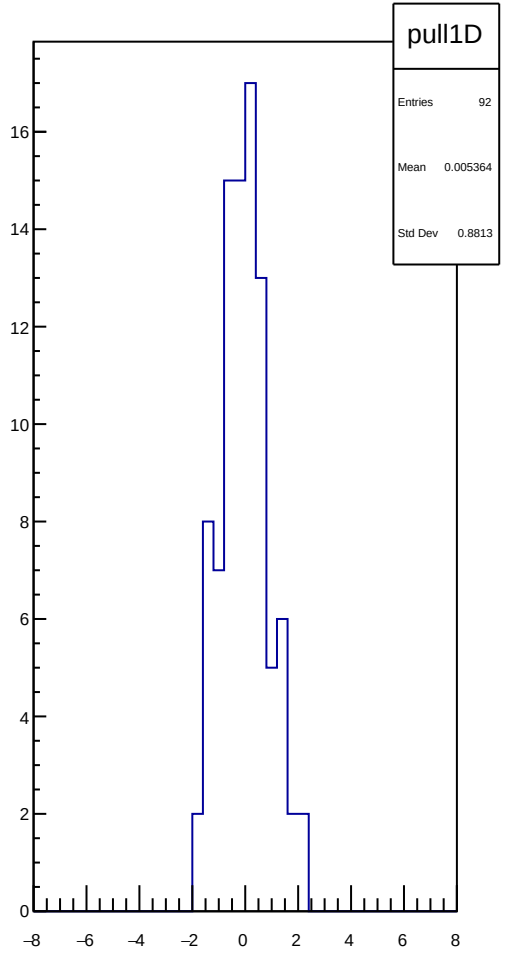

pull1D
Entries 92
Mean 0.005364
Std Dev 0.8813

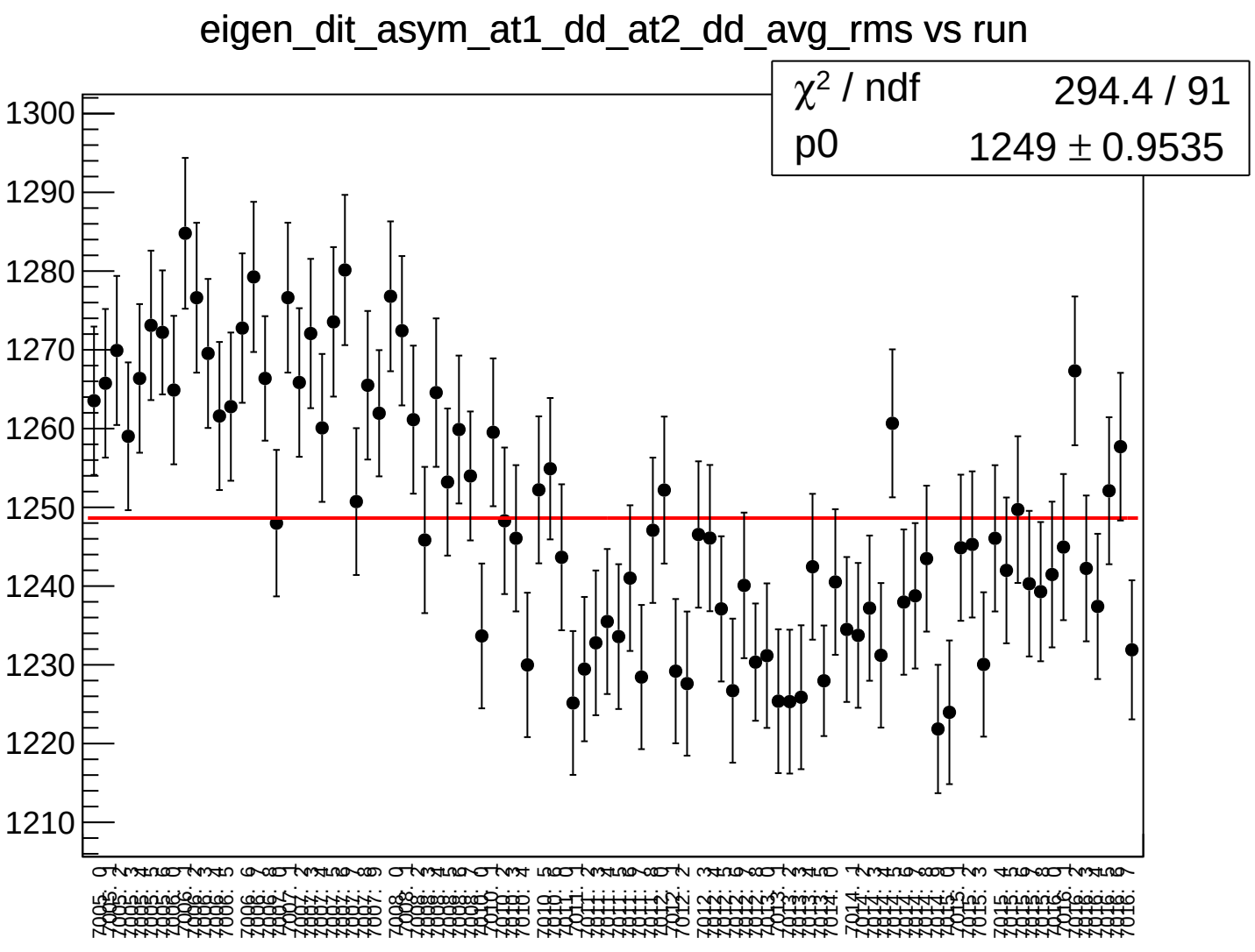

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 294.4 / 91
p0 1249 ± 0.9535
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

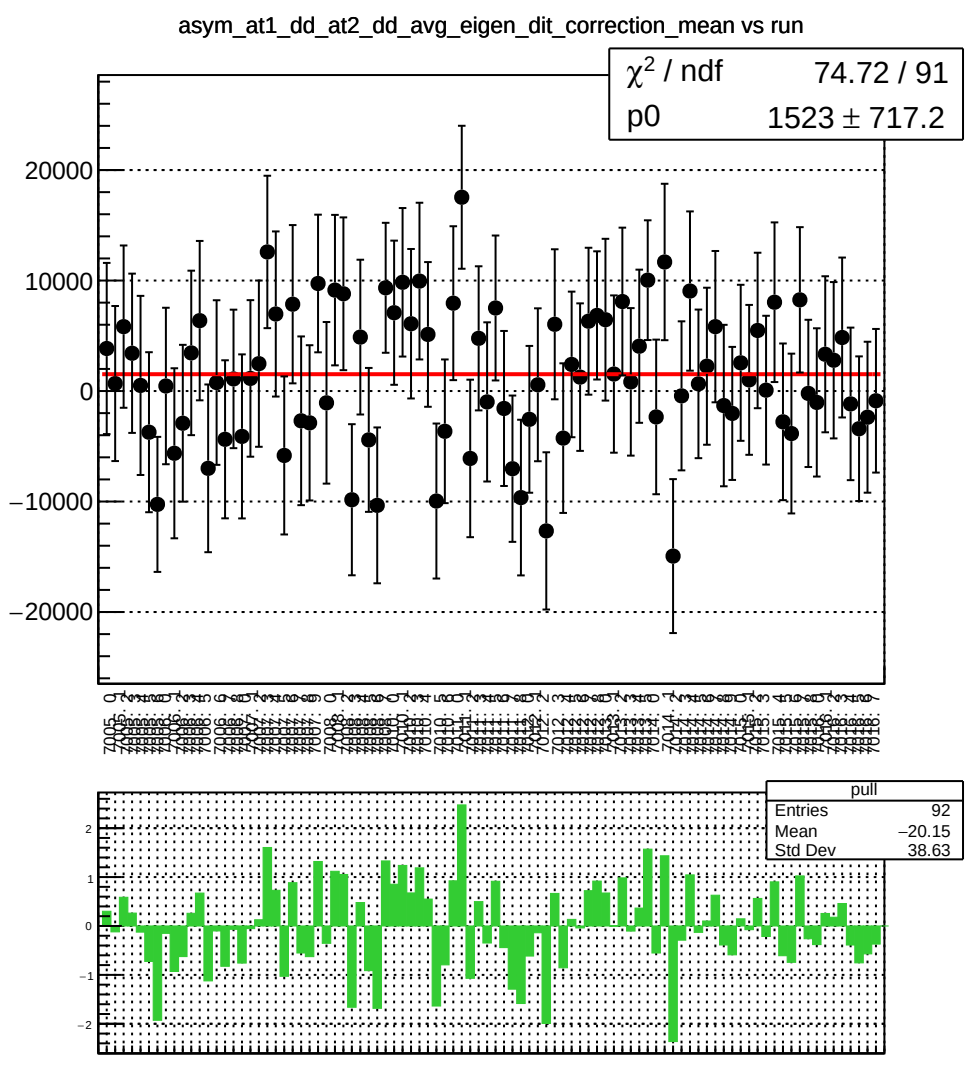

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 74.72 / 91
p0 1523 ± 717.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −20.15
Std Dev 38.63
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01235
Std Dev 0.9011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

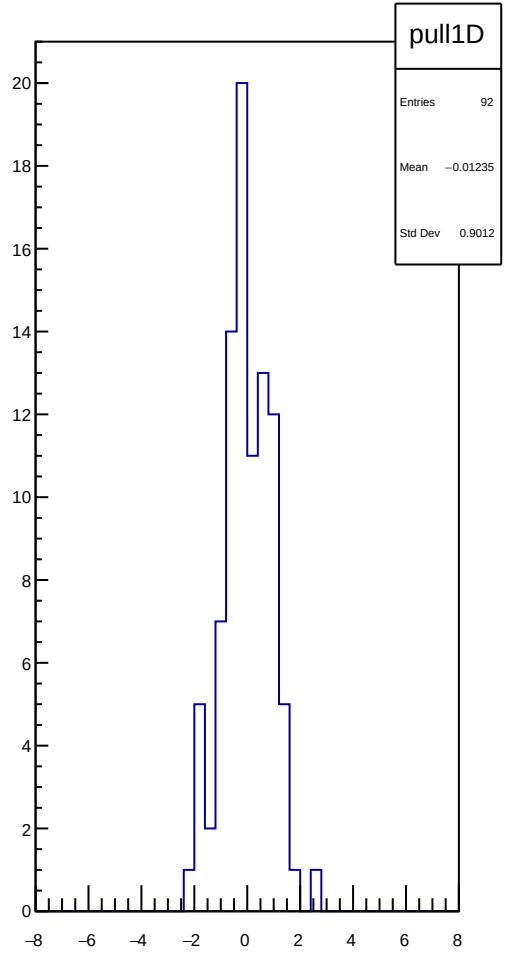

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3314 / 91
p0 663.6 ± 0.5072
780
760
740
720
700
680
660
640
620
600

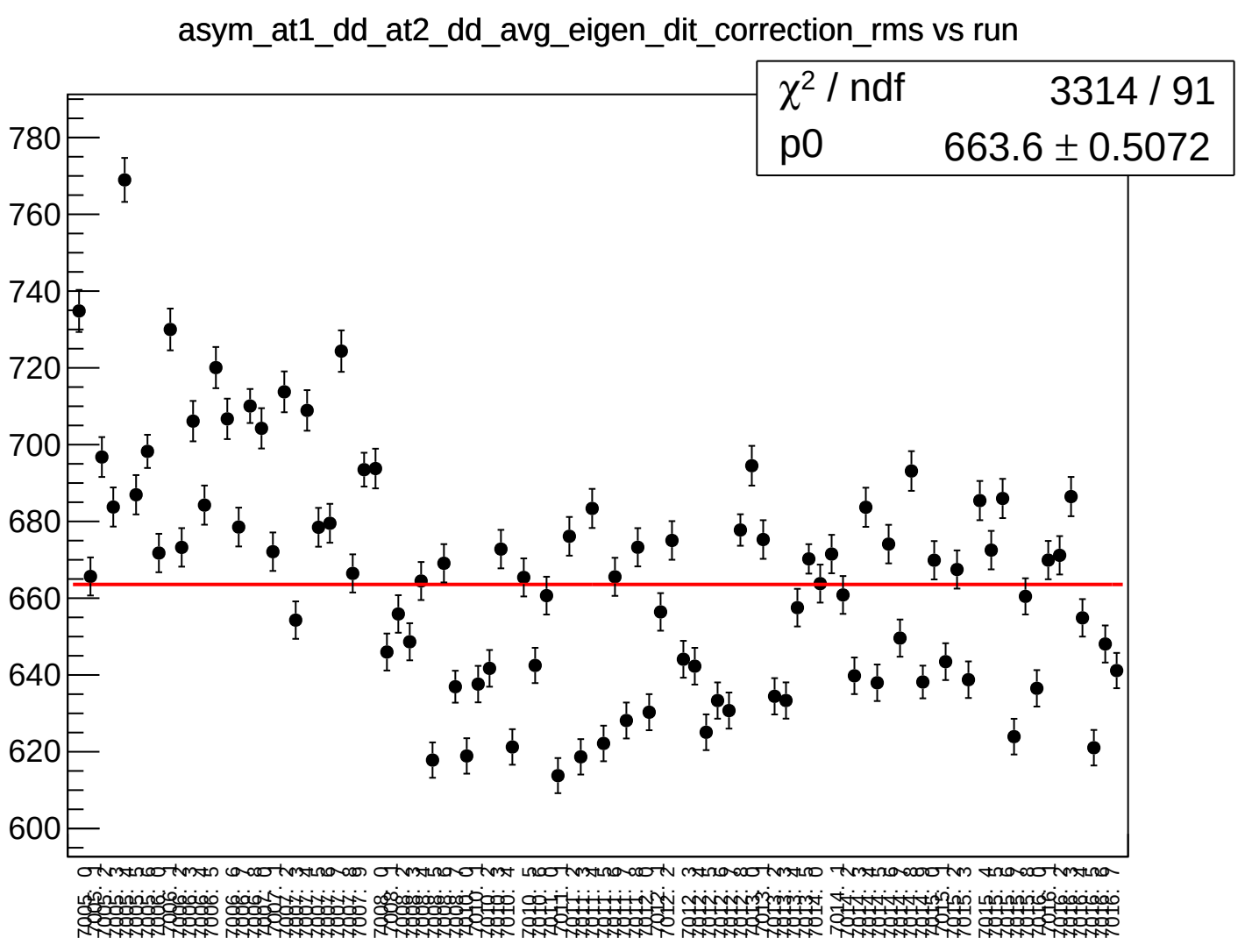

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 71.45 / 91
p0 746.8 ± 1348
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −317.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

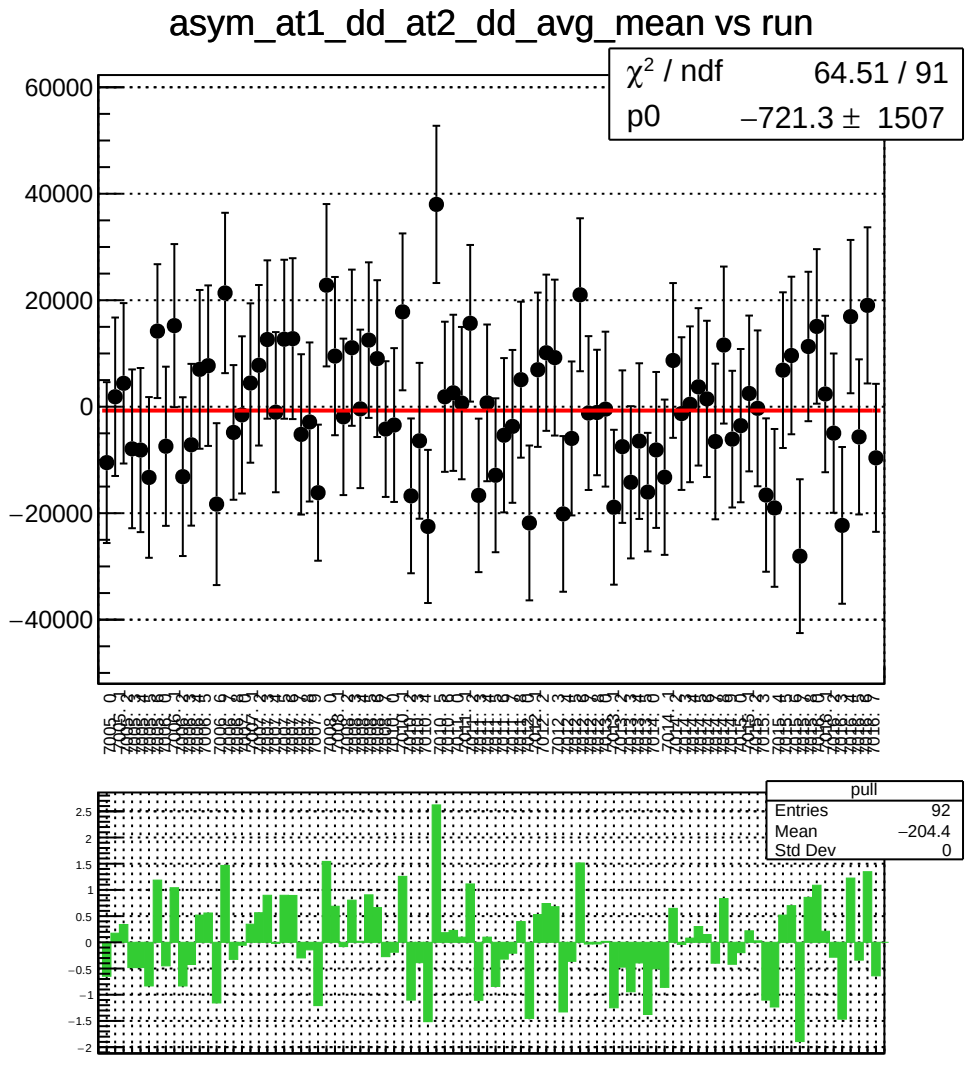

pull1D
Entries 92
Mean 0.005364
Std Dev 0.8813
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

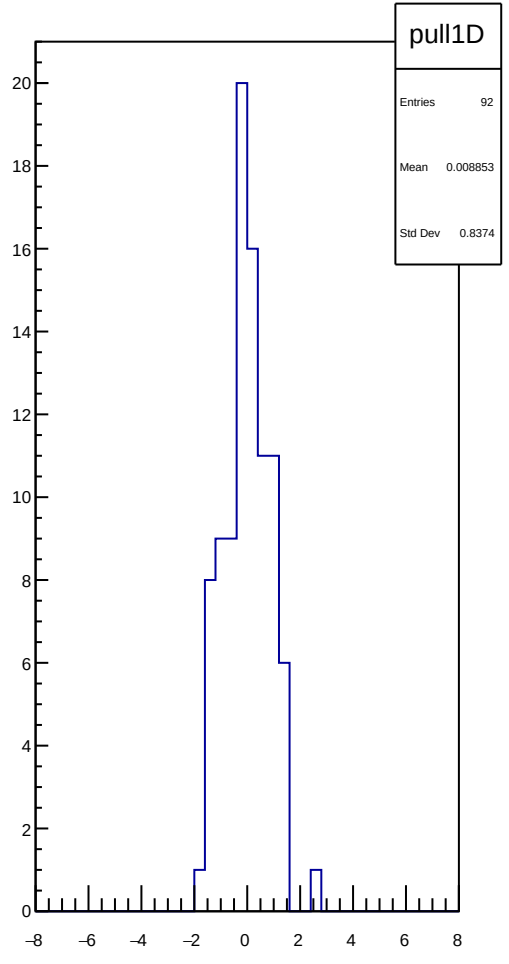

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 294.4 / 91
p0 1249 ± 0.9535
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210

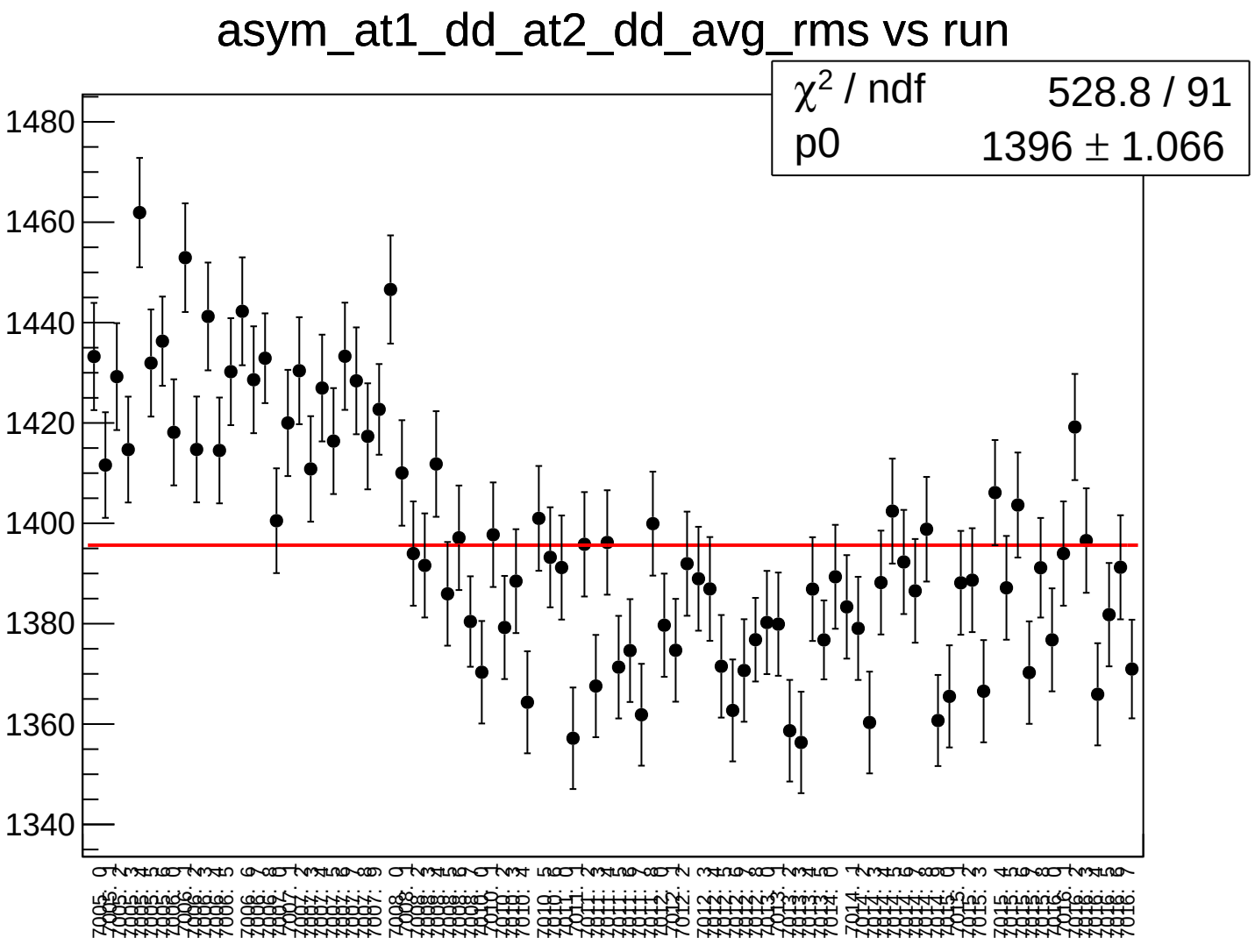

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.72 / 91
p0 1523 ± 717.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −20.15
Std Dev 38.63
2
1
0
−1
−2

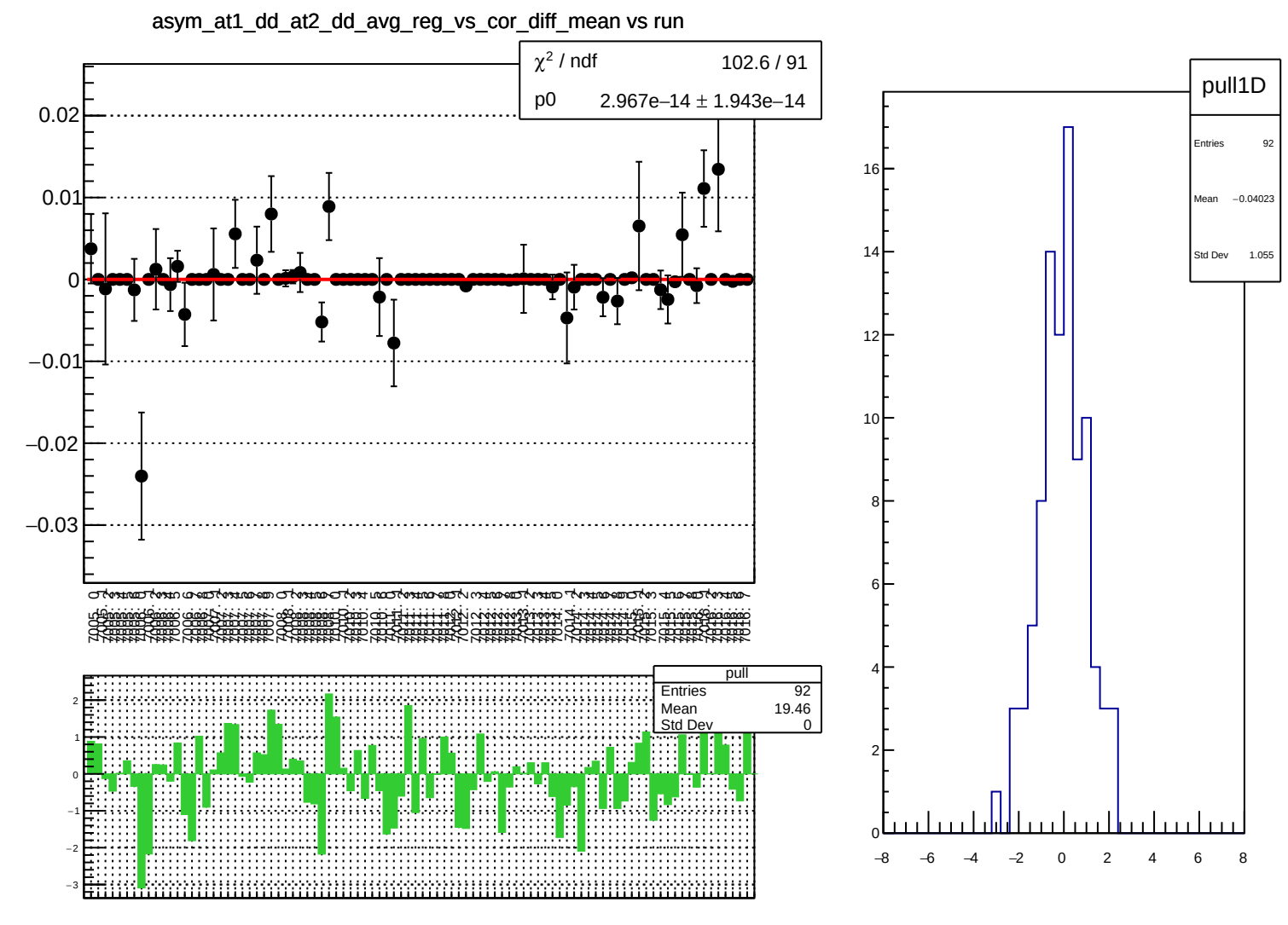

pull1D
Entries 92
Mean −0.01235
Std Dev 0.9012
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

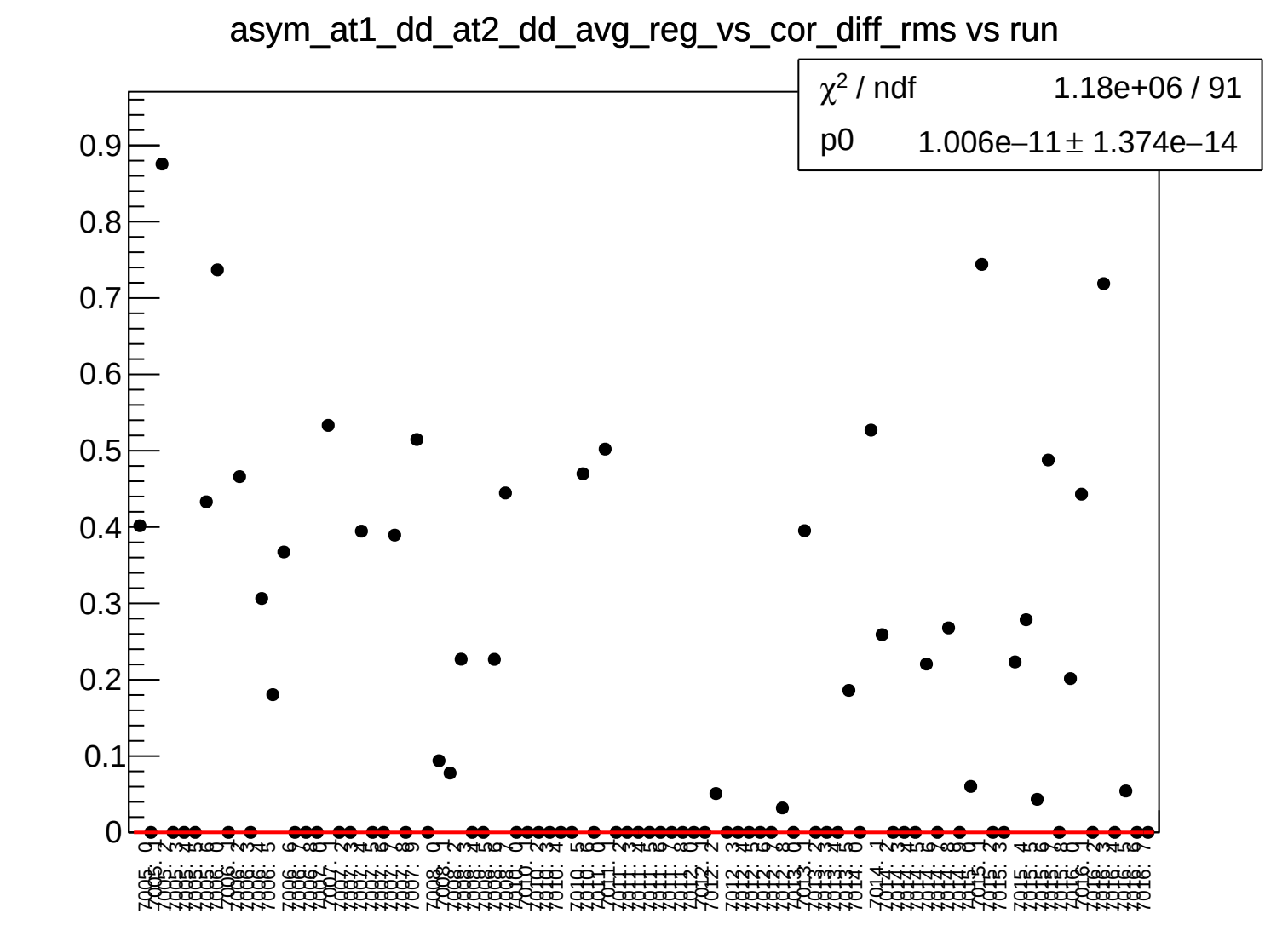

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3314 / 91
p0 663.6 ± 0.5072
780
760
740
720
700
680
660
640
620
600

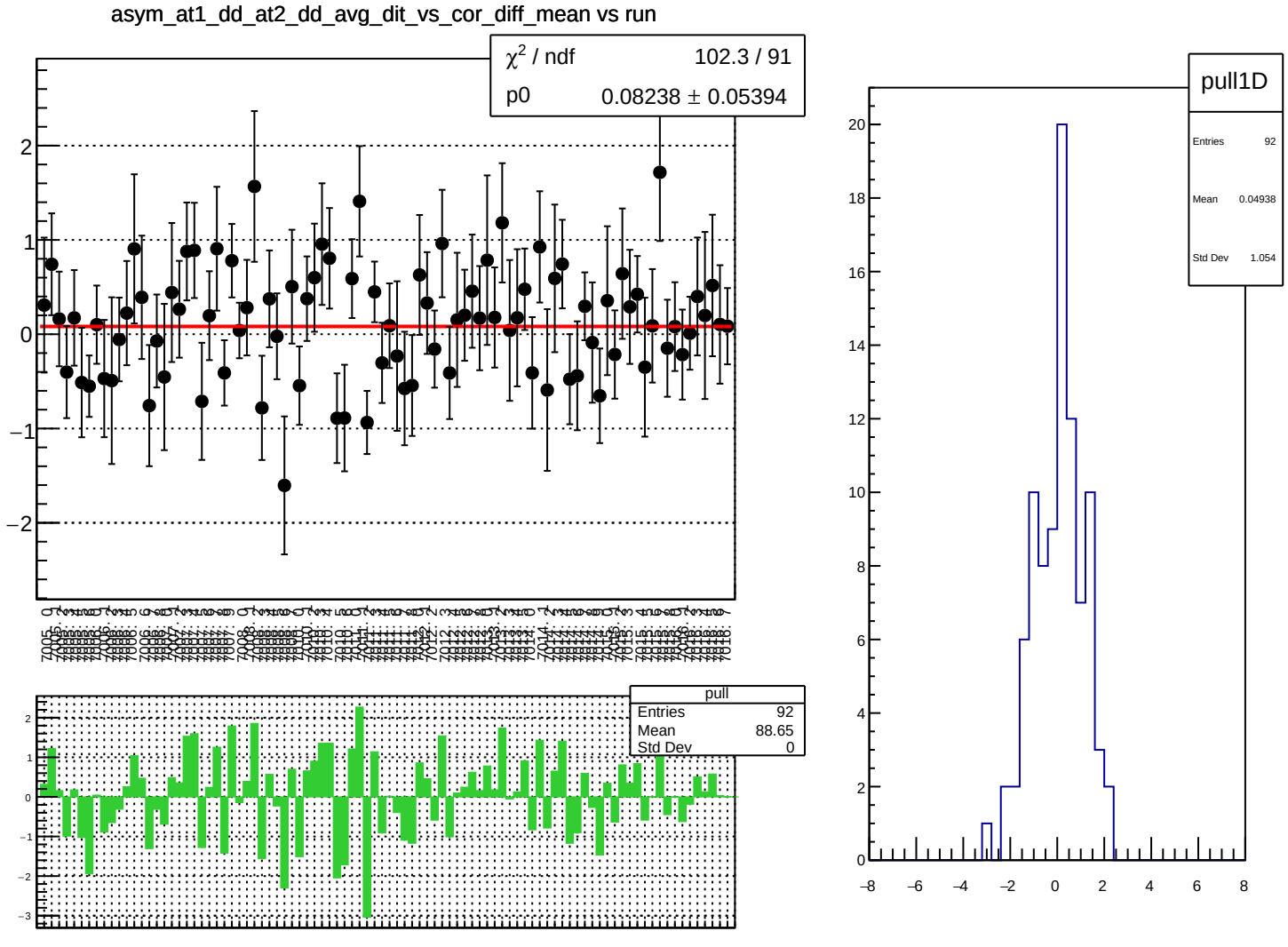

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 64.51 / 91
p0 −721.3 ± 1507
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −204.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

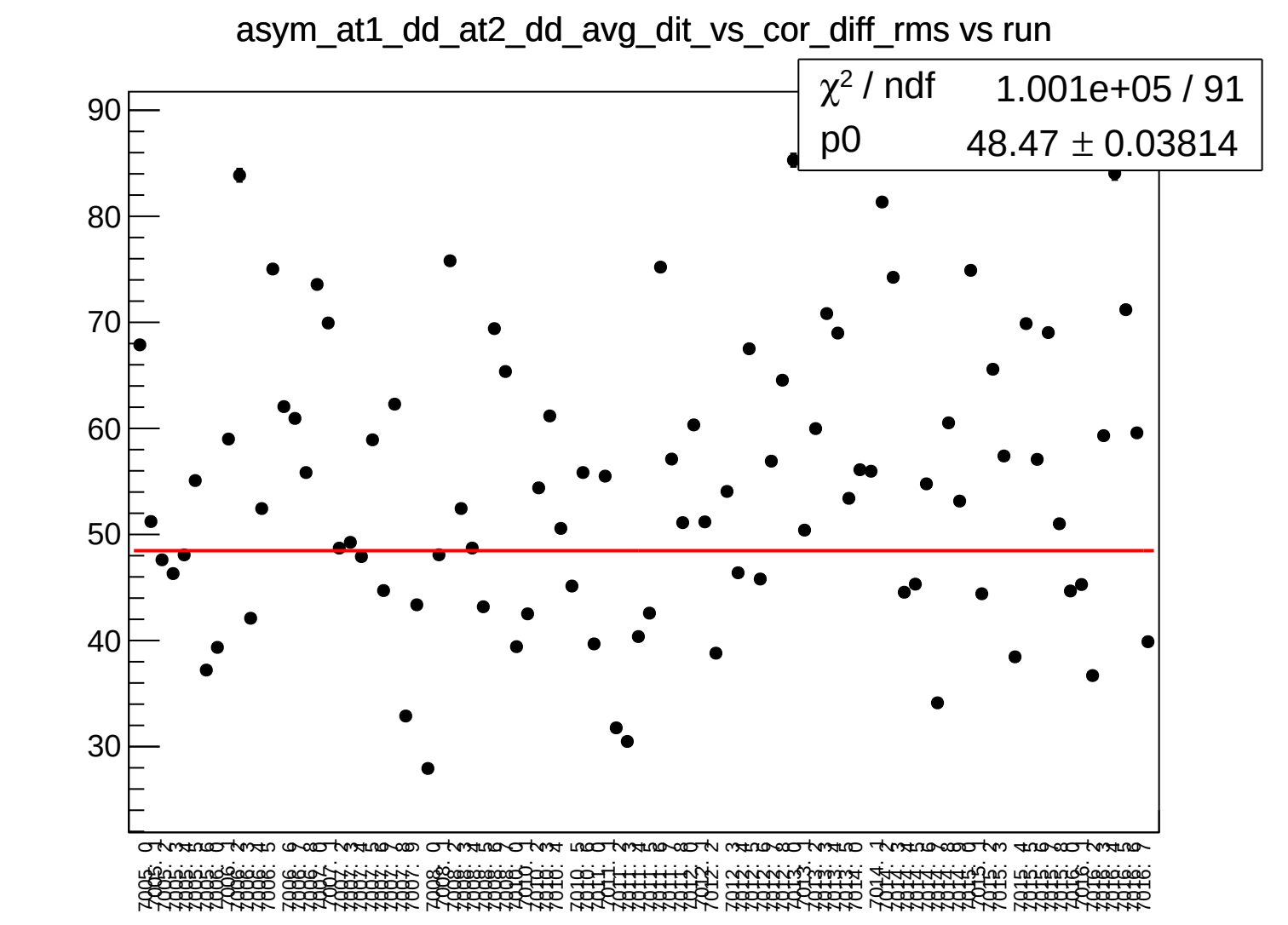

pull1D
Entries 92
Mean 0.008853
Std Dev 0.8374
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

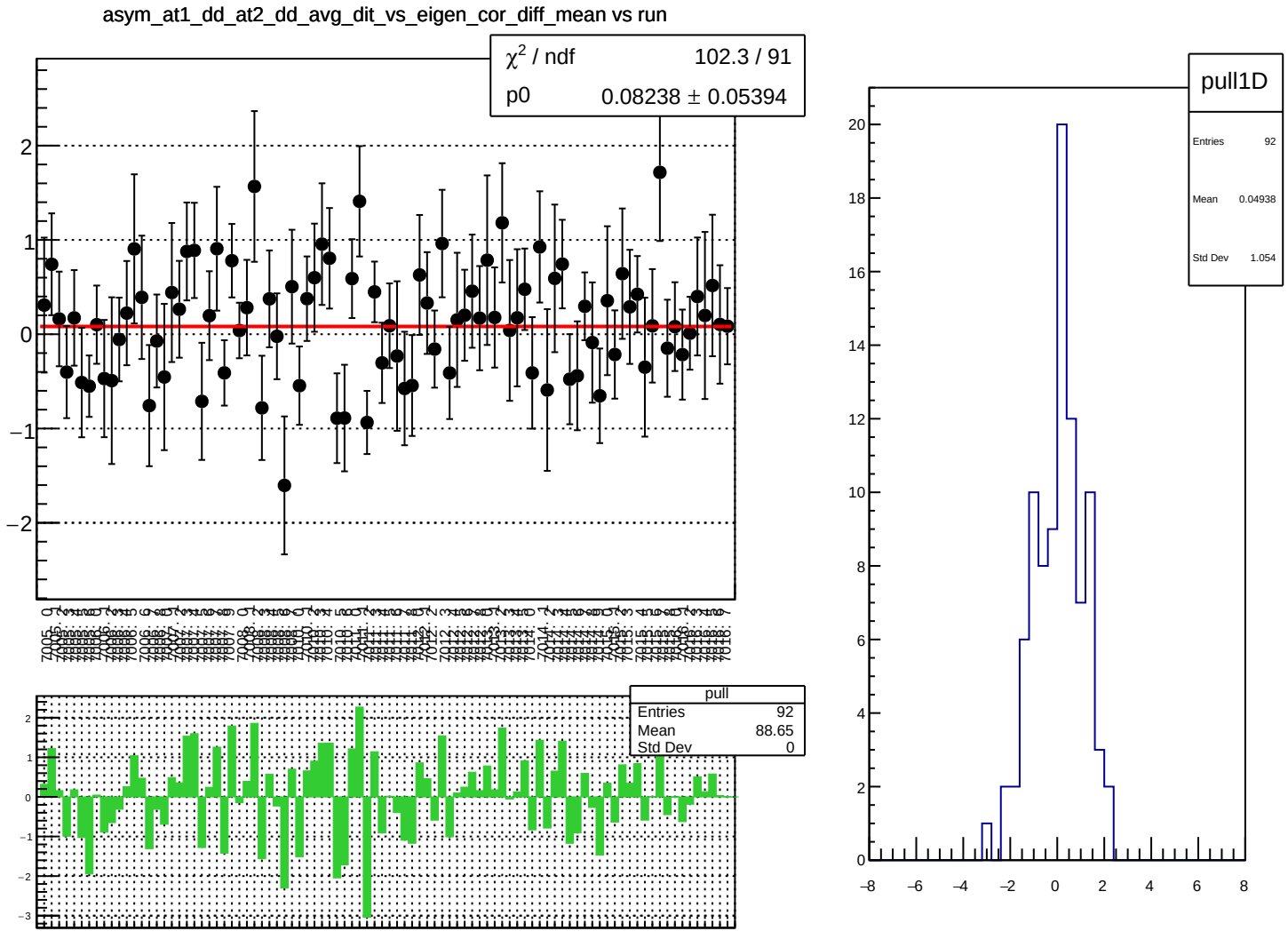

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 528.8 / 91
p0 1396 ± 1.066
1480
1460
1440
1420
1400
1380
1360
1340

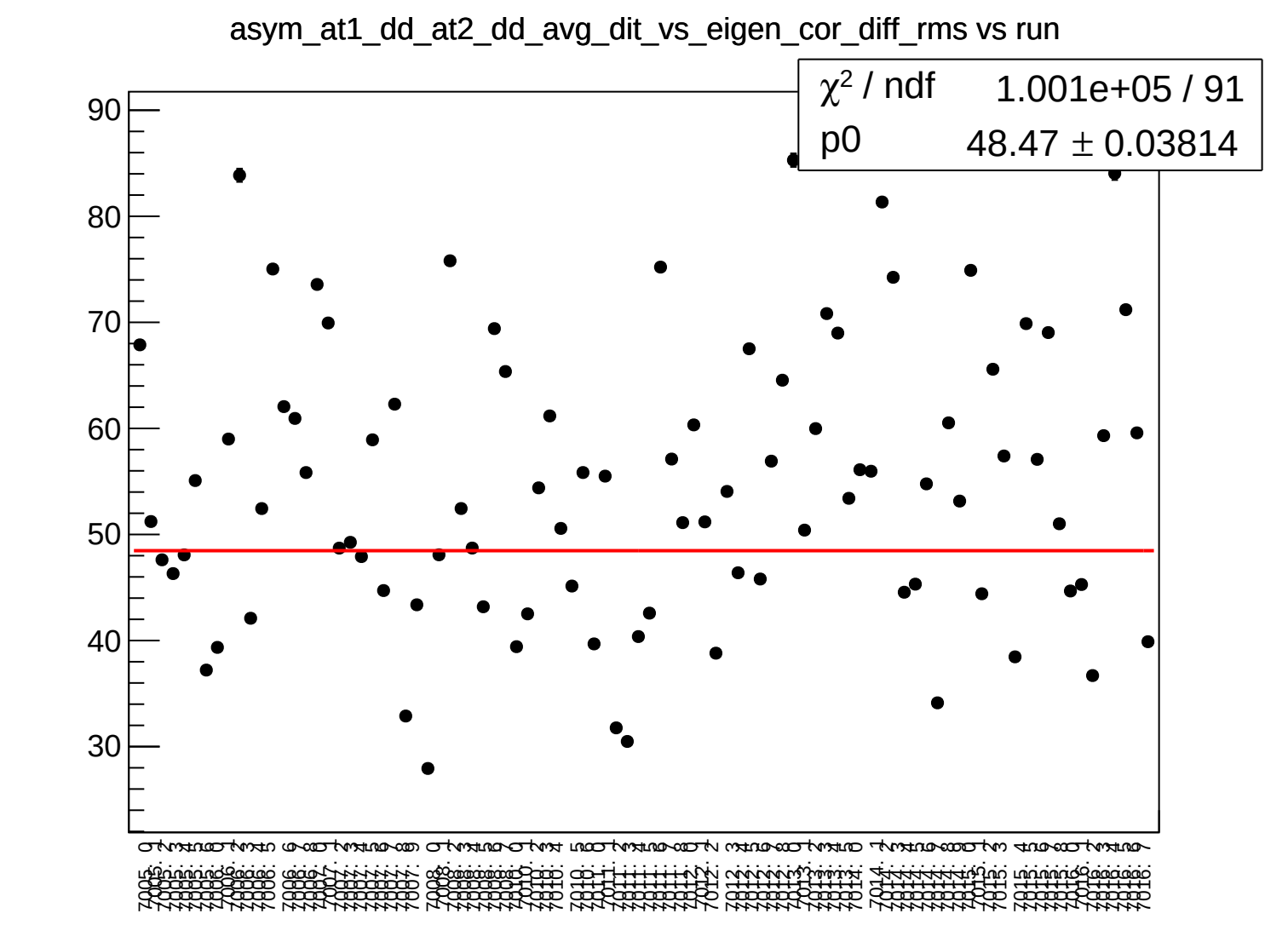

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 91
p0 2.967e−14 ± 1.943e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 19.46
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.04023
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

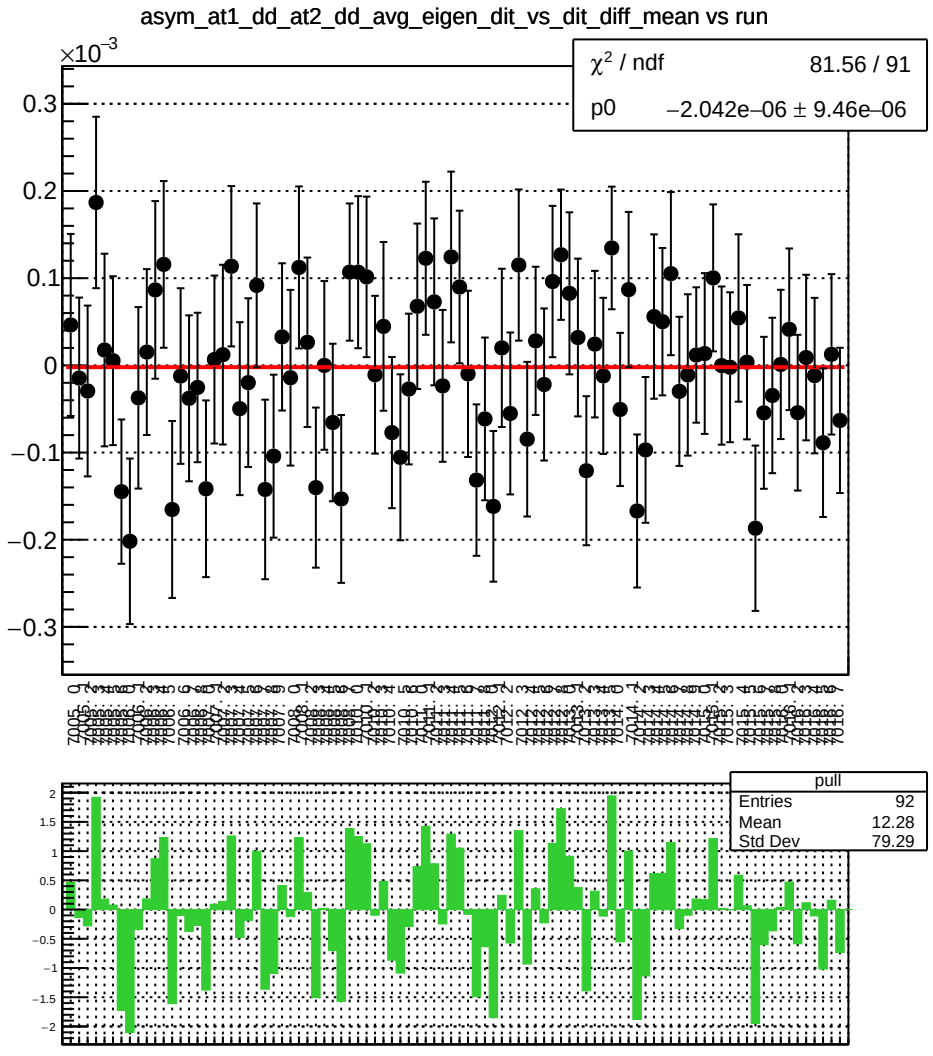

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.18e+06 / 91
p0 1.006e−11 ± 1.374e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

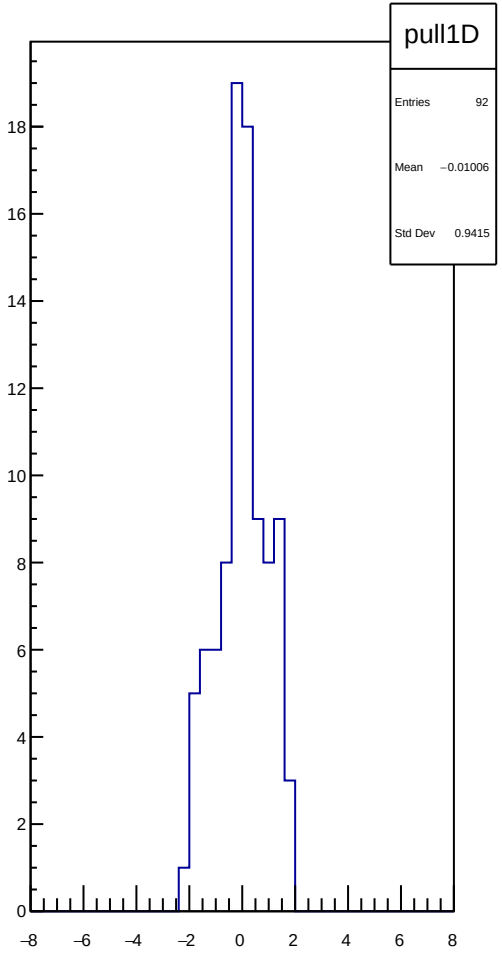

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 91
p0 0.08238 ± 0.05394
pull
Entries 92
Mean 88.65
Std Dev 0
pull1D
Entries 92
Mean 0.04938
Std Dev 1.054

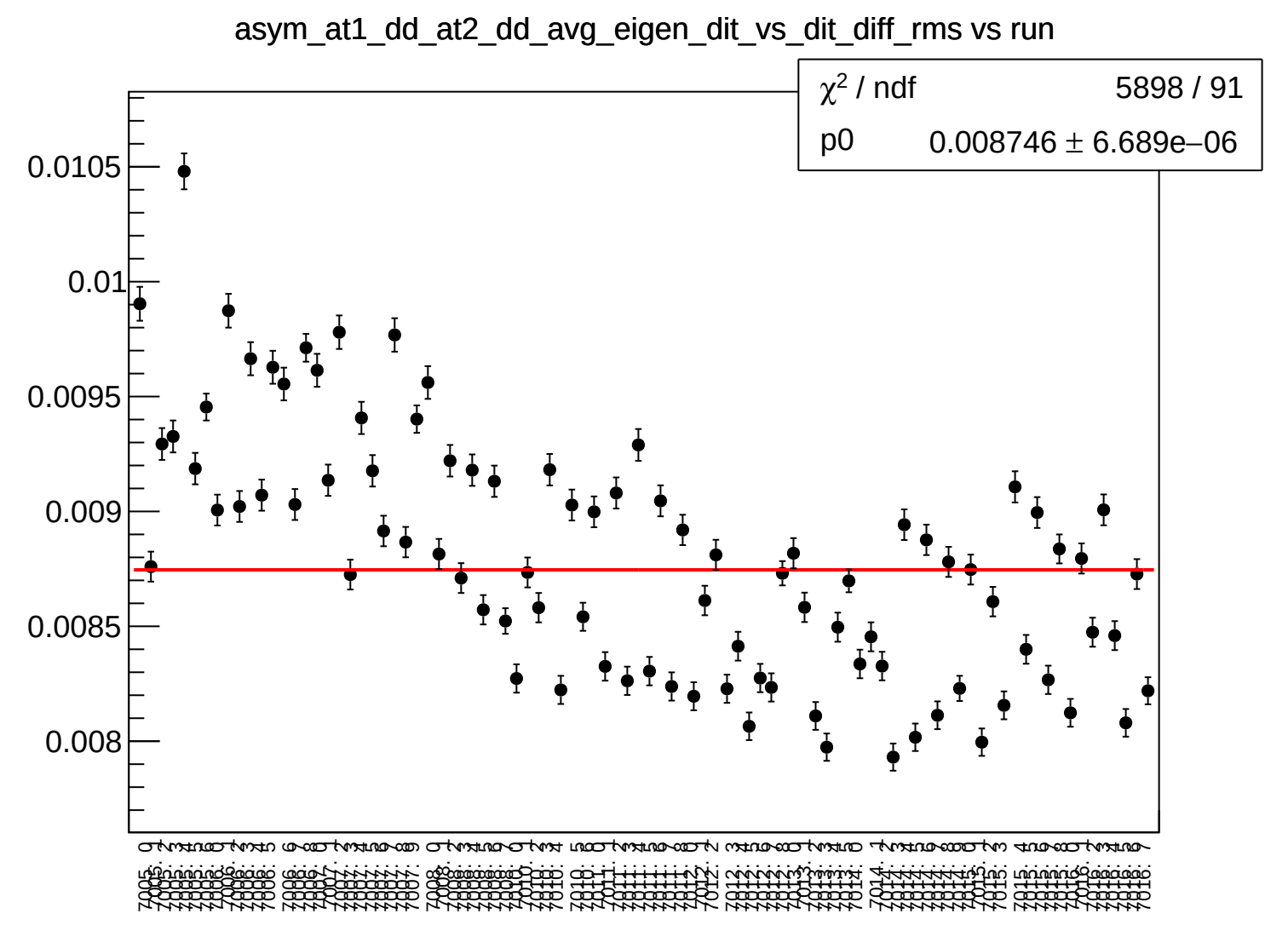

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 91
p0 48.47 ± 0.03814
90
80
70
60
50
40
30

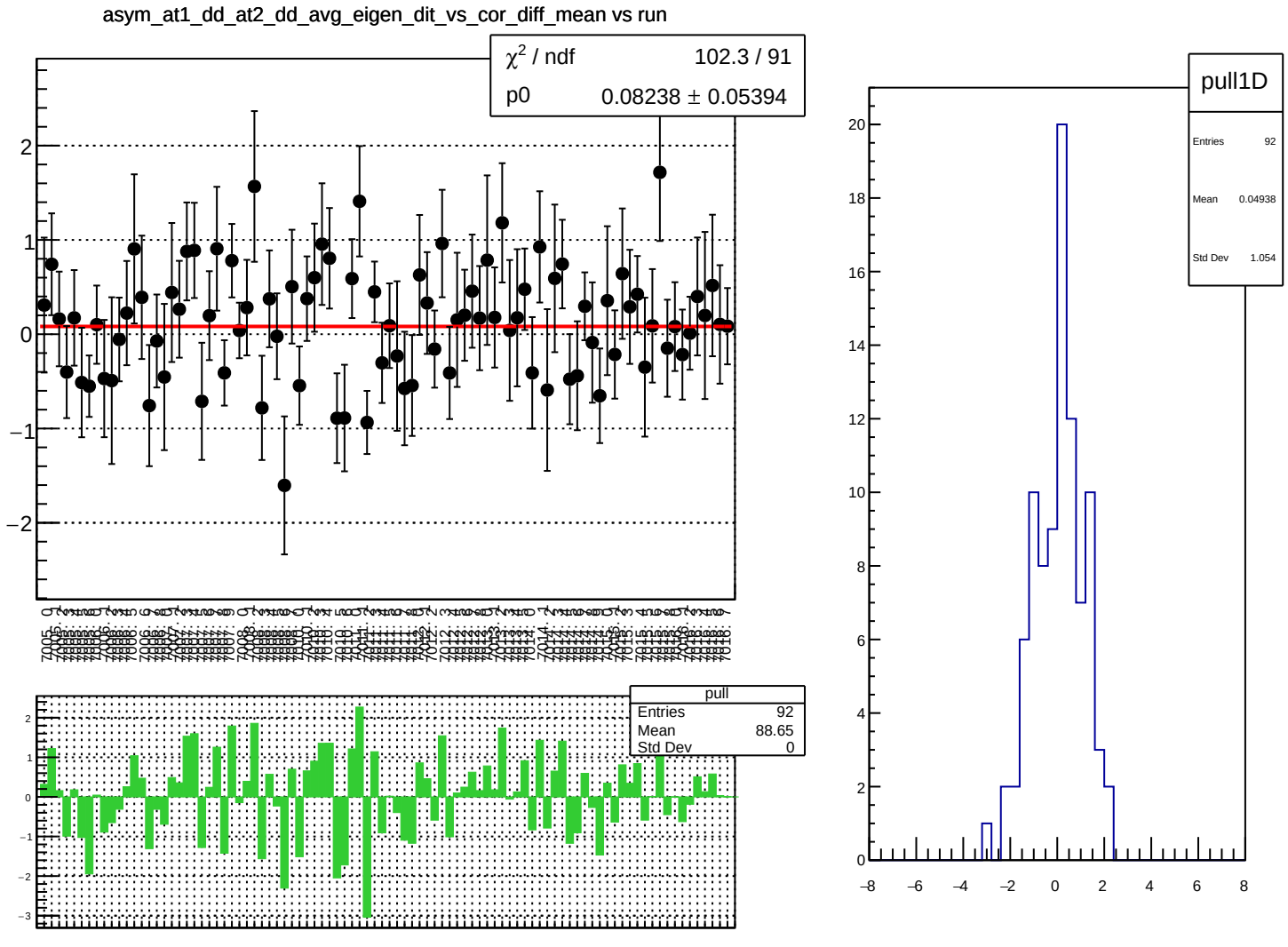

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.3 / 91
p0 0.08238 ± 0.05394
pull
Entries 92
Mean 88.65
Std Dev 0
pull1D
Entries 92
Mean 0.04938
Std Dev 1.054

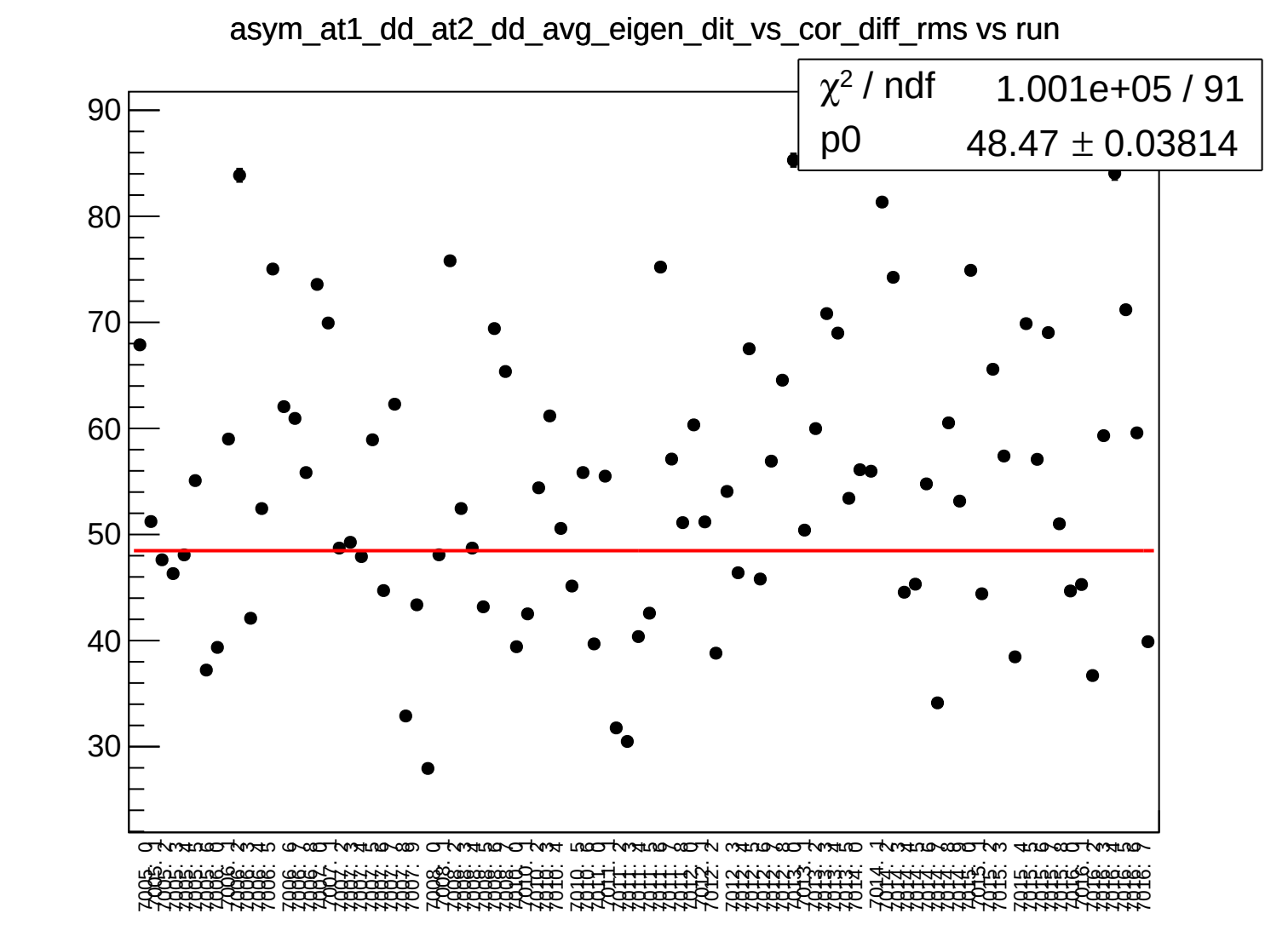

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 91
p0 48.47 ± 0.03814
90
80
70
60
50
40
30

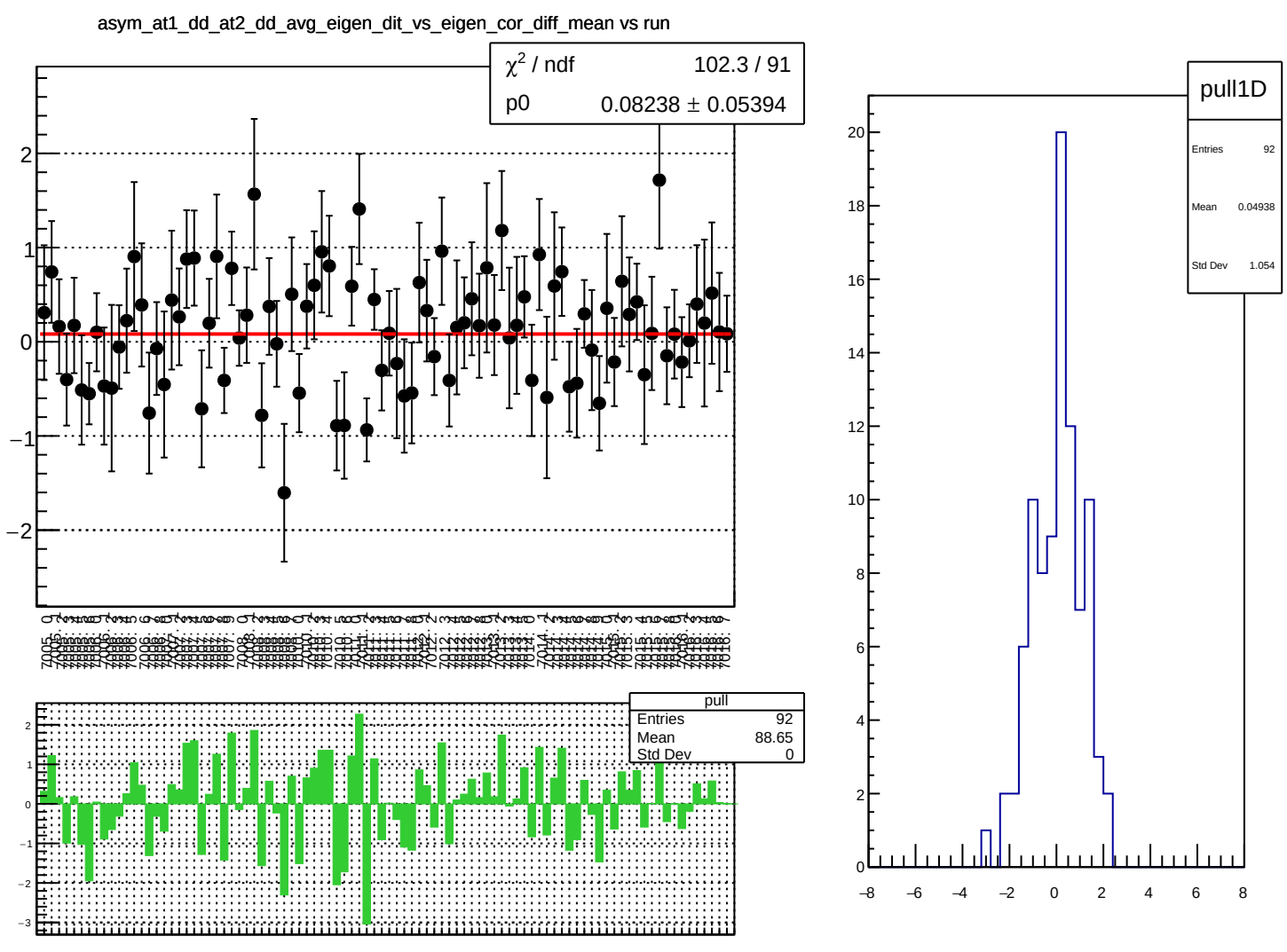

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.56 / 91
p0 −2.042e−06 ± 9.46e−06
pull
Entries 92
Mean 12.28
Std Dev 79.29

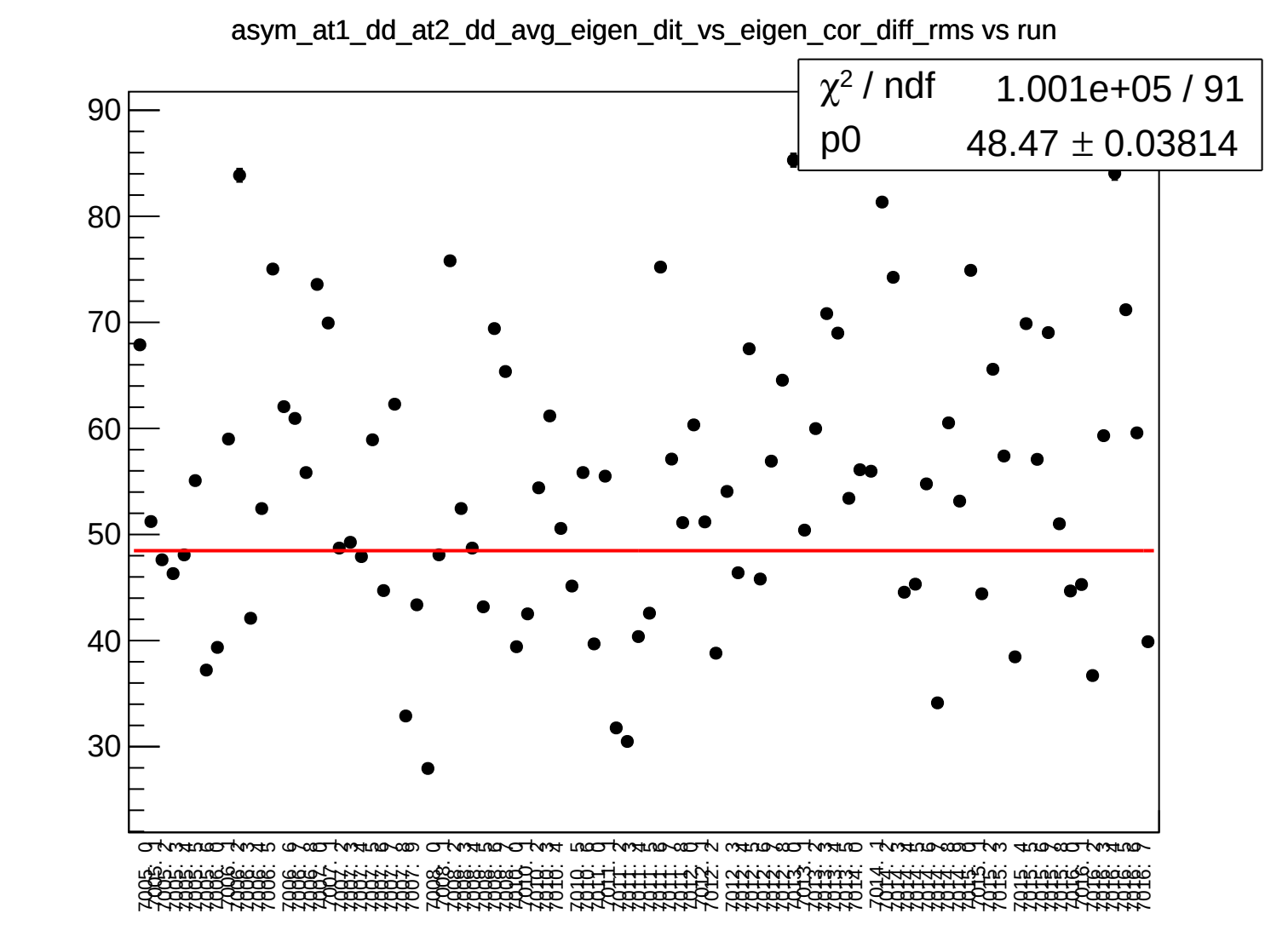

pull1D
Entries 92
Mean −0.01006
Std Dev 0.9415

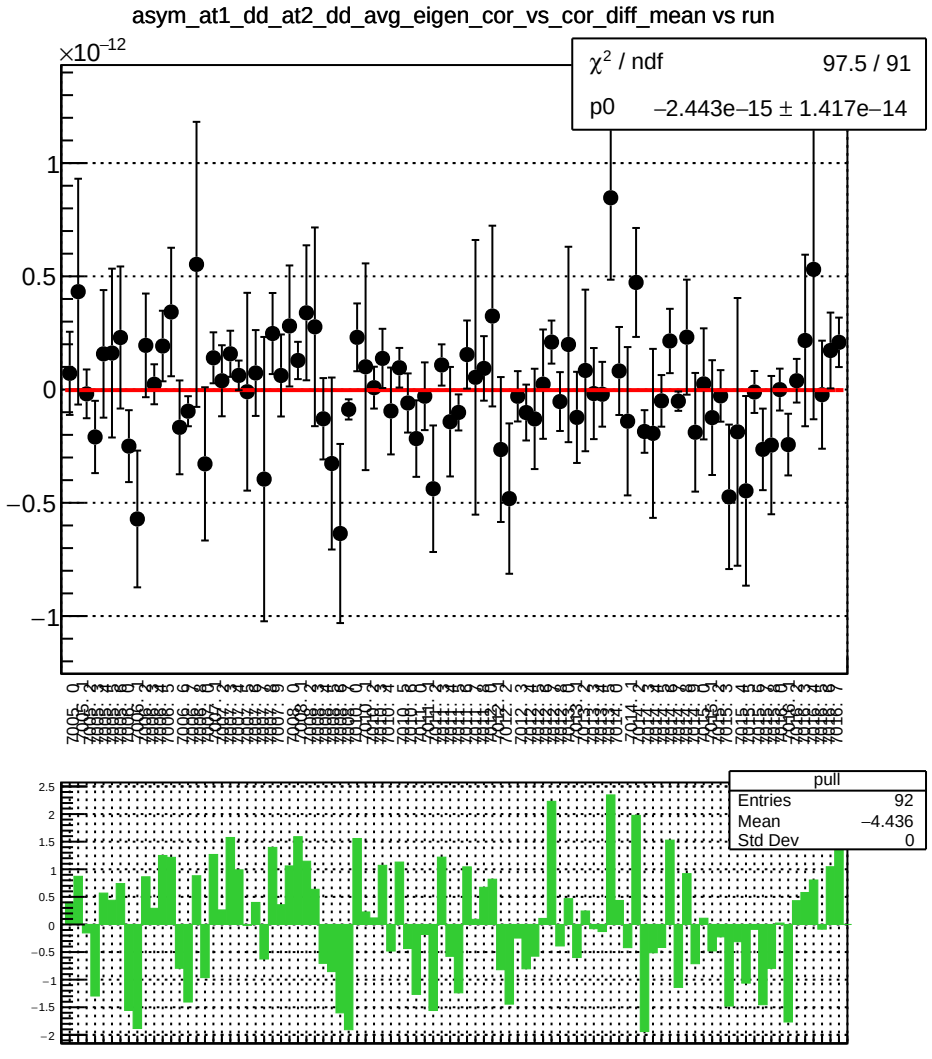

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 5898 / 91
p0 0.008746 ± 6.689e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008

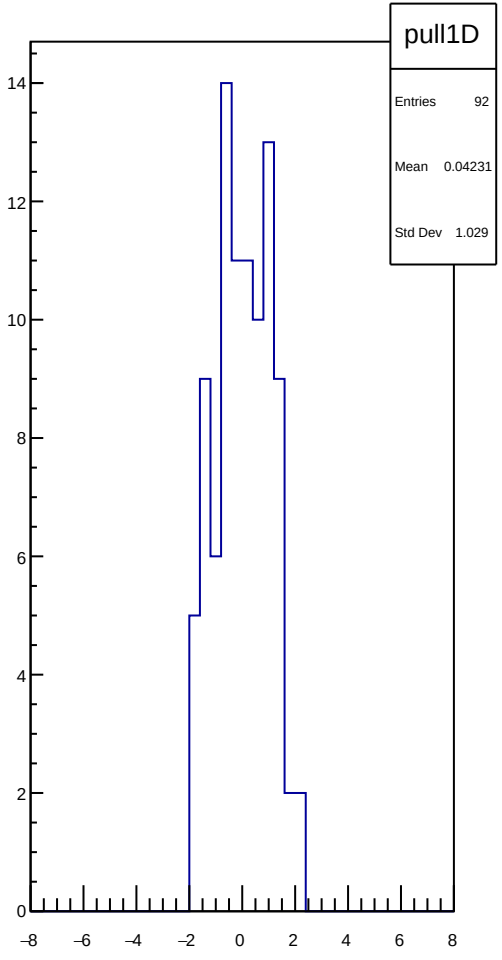

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 91
p0 0.08238 ± 0.05394
pull
Entries 92
Mean 88.65
Std Dev 0
pull1D
Entries 92
Mean 0.04938
Std Dev 1.054

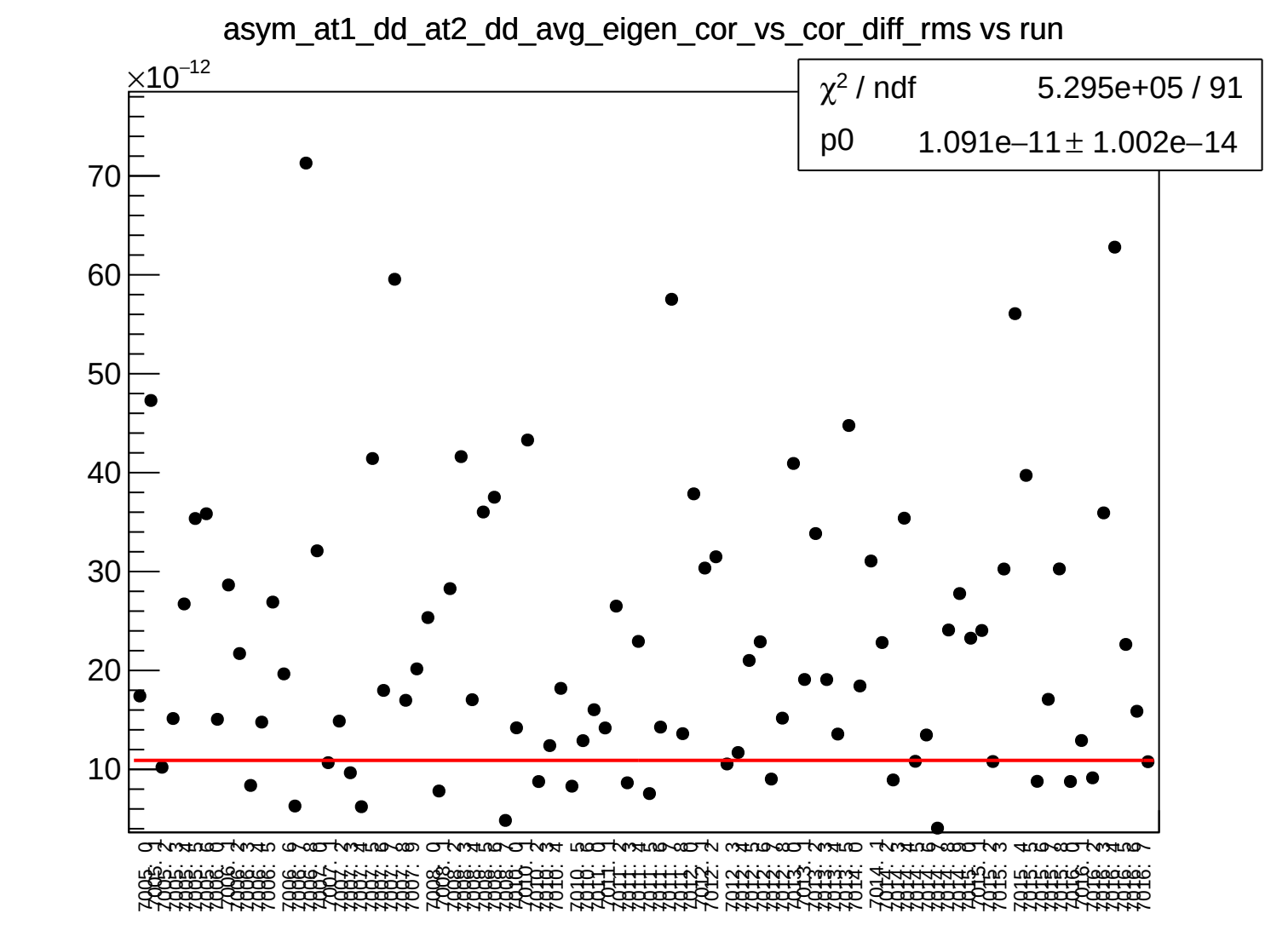

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 91
p0 48.47 ± 0.03814
90
80
70
60
50
40
30

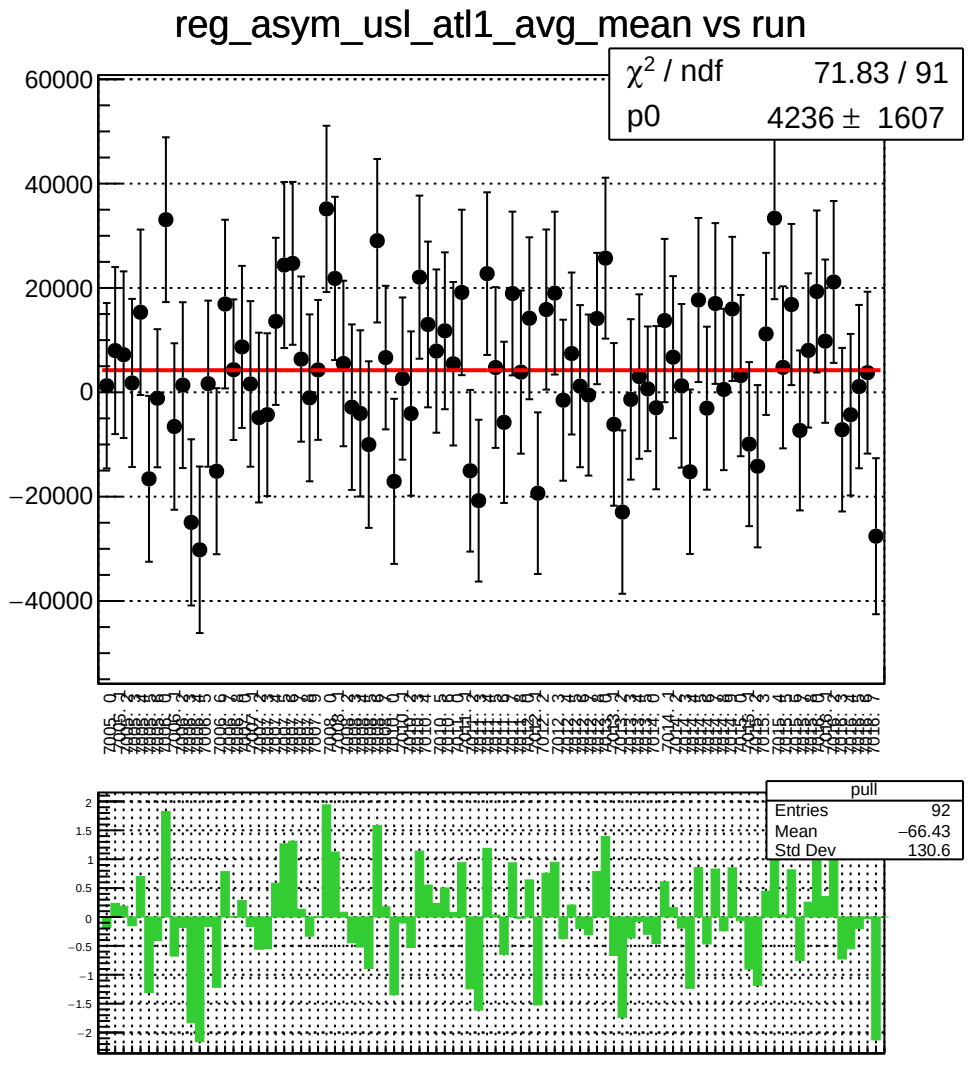

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.3 / 91
p0 0.08238 ± 0.05394
pull
Entries 92
Mean 88.65
Std Dev 0
pull1D
Entries 92
Mean 0.04938
Std Dev 1.054

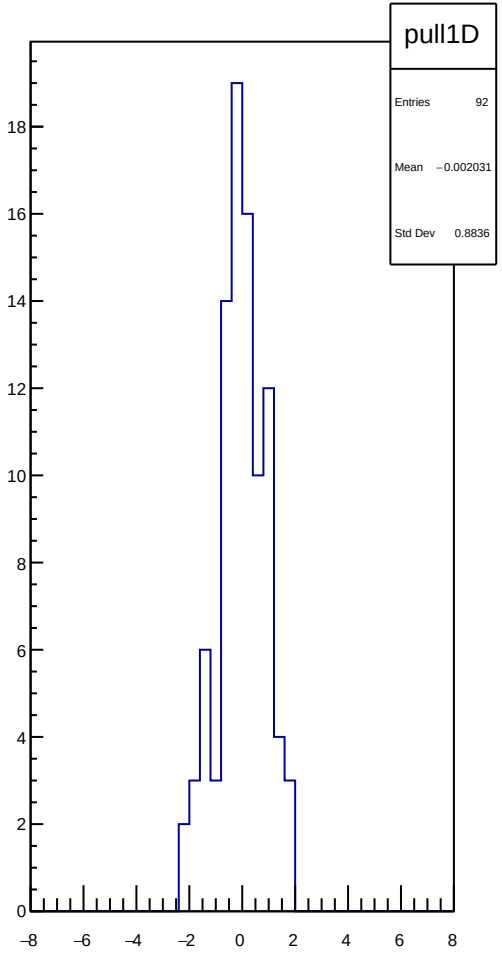

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.001e+05 / 91
p0 48.47 ± 0.03814
90
80
70
60
50
40
30

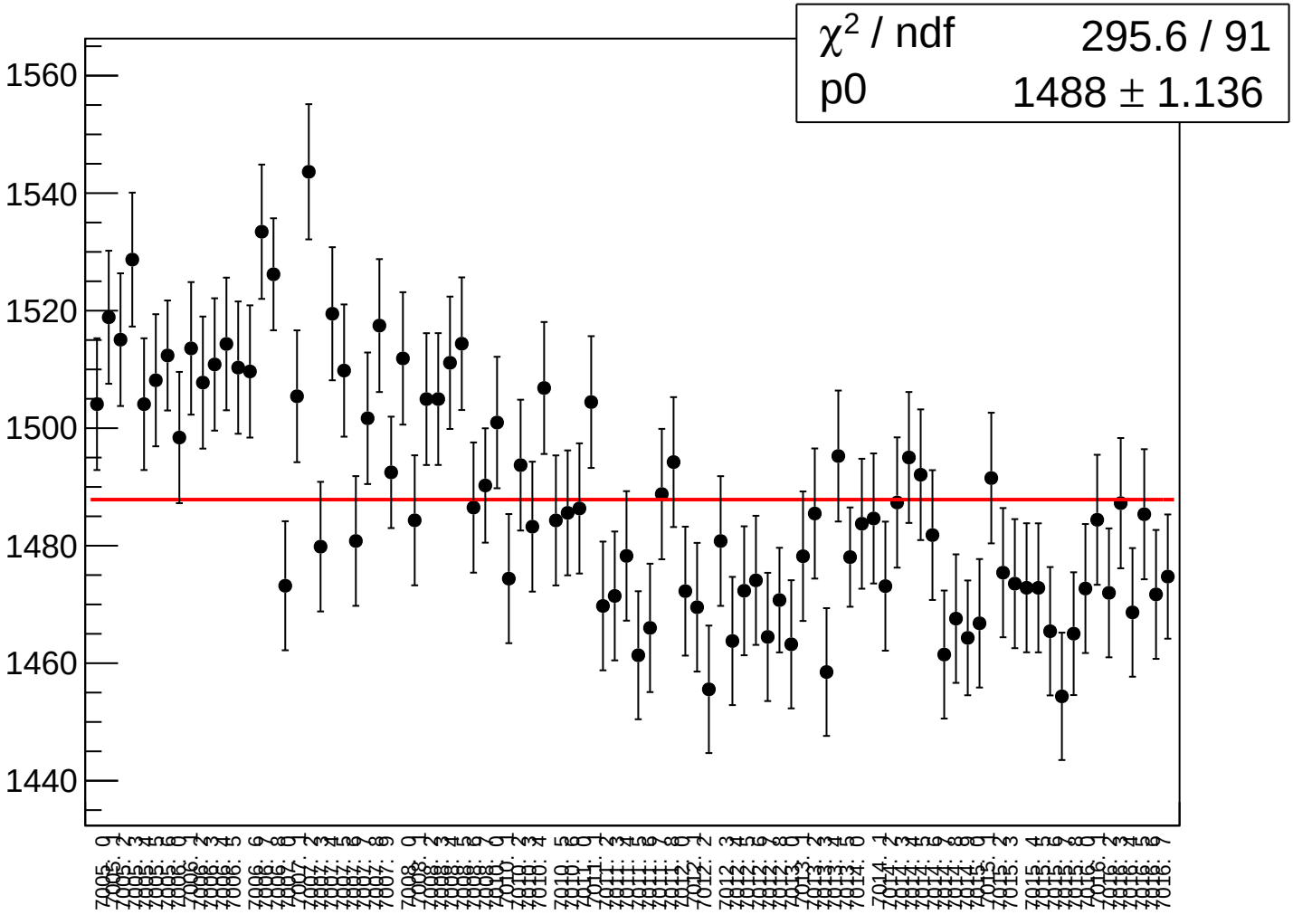

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.5 / 91
p0 −2.443e−15 ± 1.417e−14
pull
Entries 92
Mean −4.436
Std Dev 0

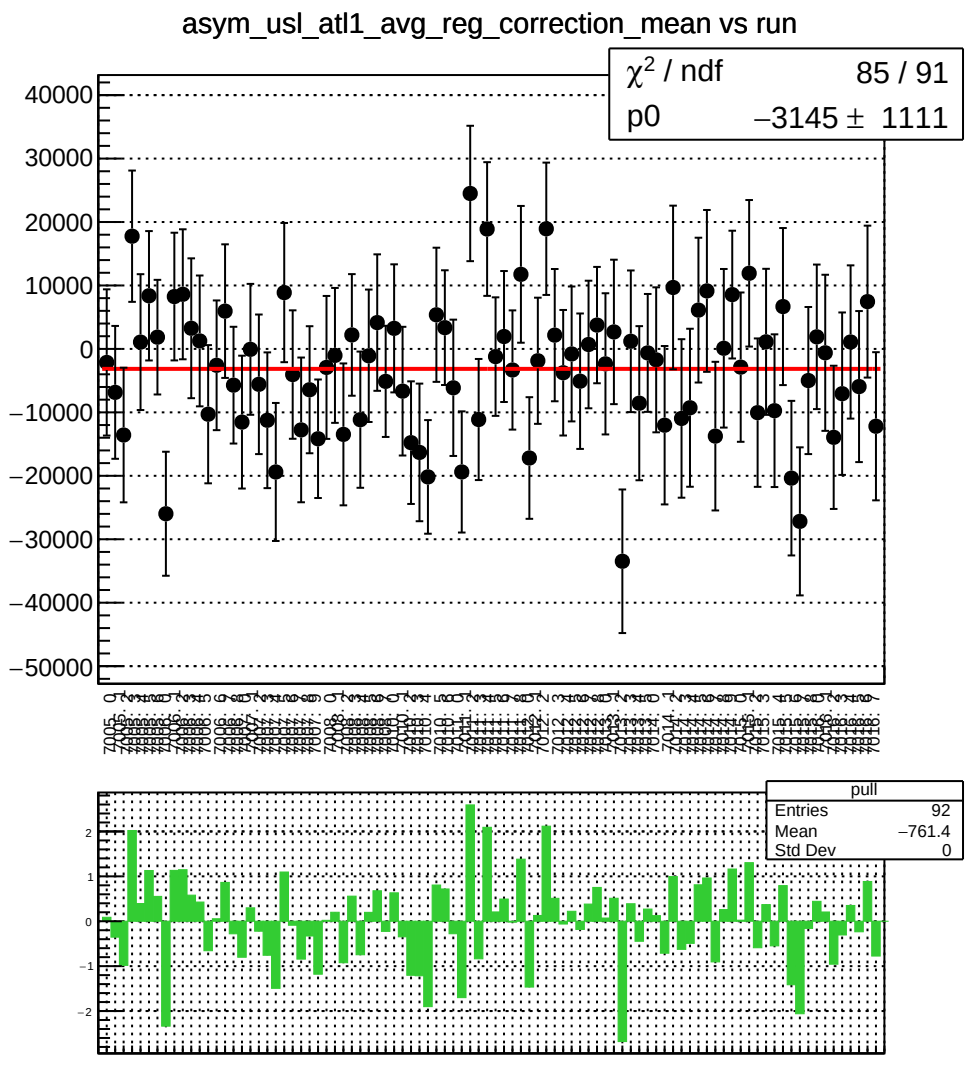

pull1D
Entries 92
Mean 0.04231
Std Dev 1.029

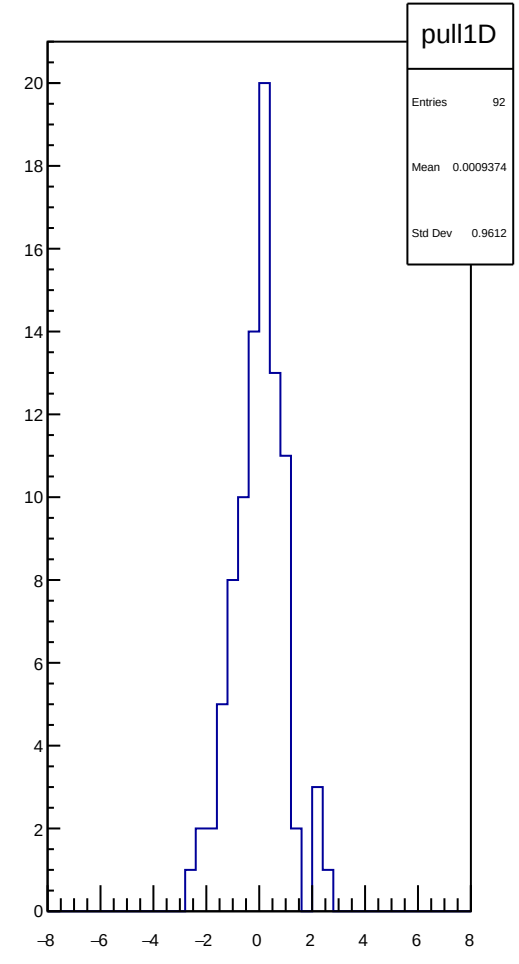

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.295e+05 / 91
p0 1.091e−11 ± 1.002e−14
70
60
50
40
30
20
10

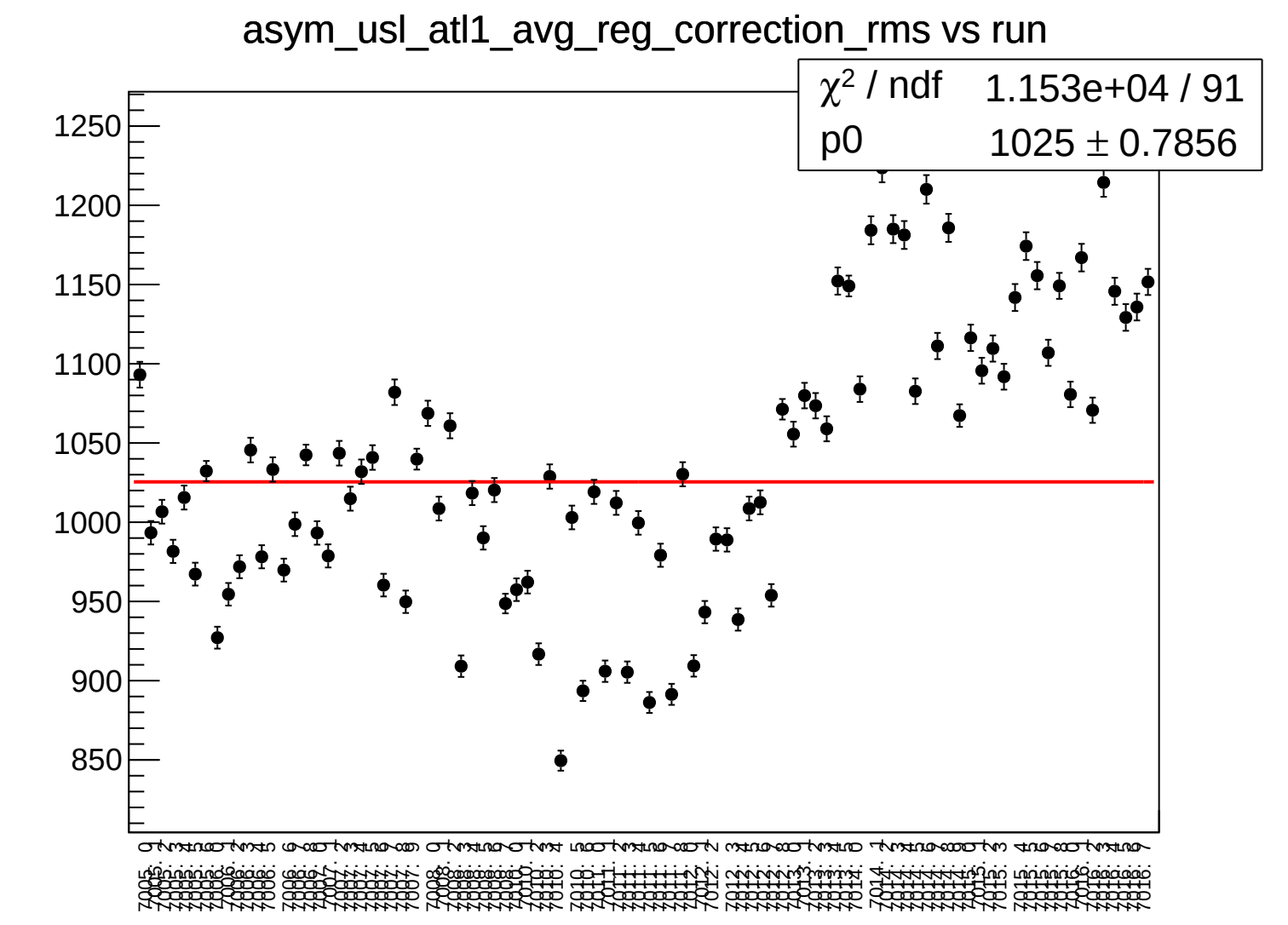

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 71.83 / 91
p0 4236 ± 1607
pull
Entries 92
Mean −66.43
Std Dev 130.6

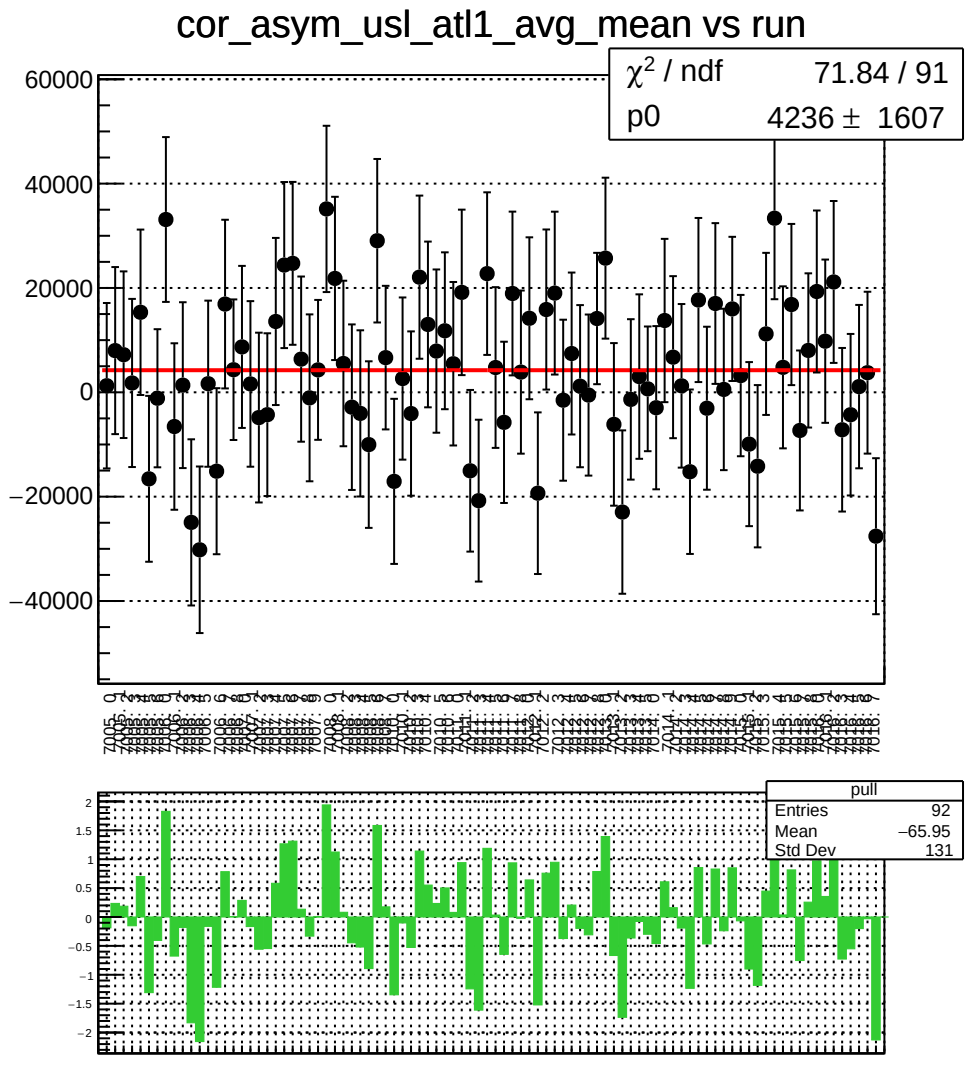

pull1D
Entries 92
Mean −0.002031
Std Dev 0.8836

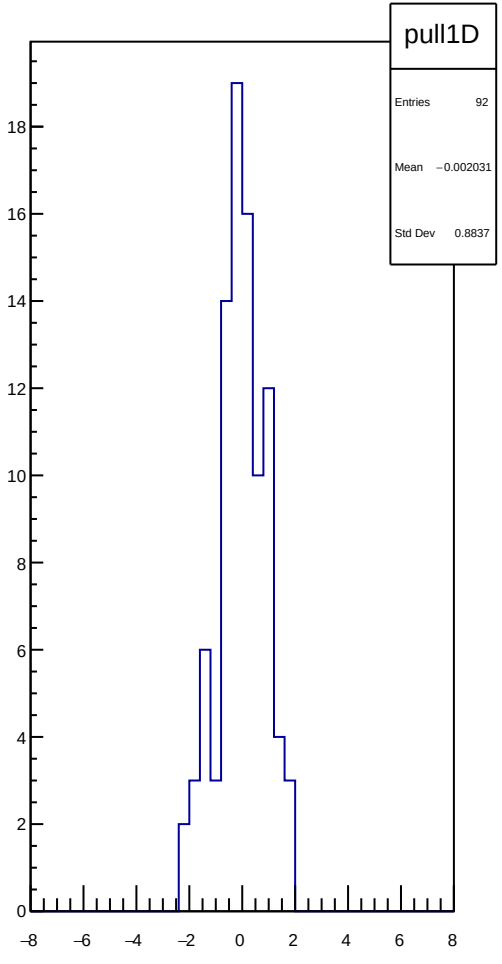

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 295.6 / 91
p0 1488 ± 1.136
1560
1540
1520
1500
1480
1460
1440

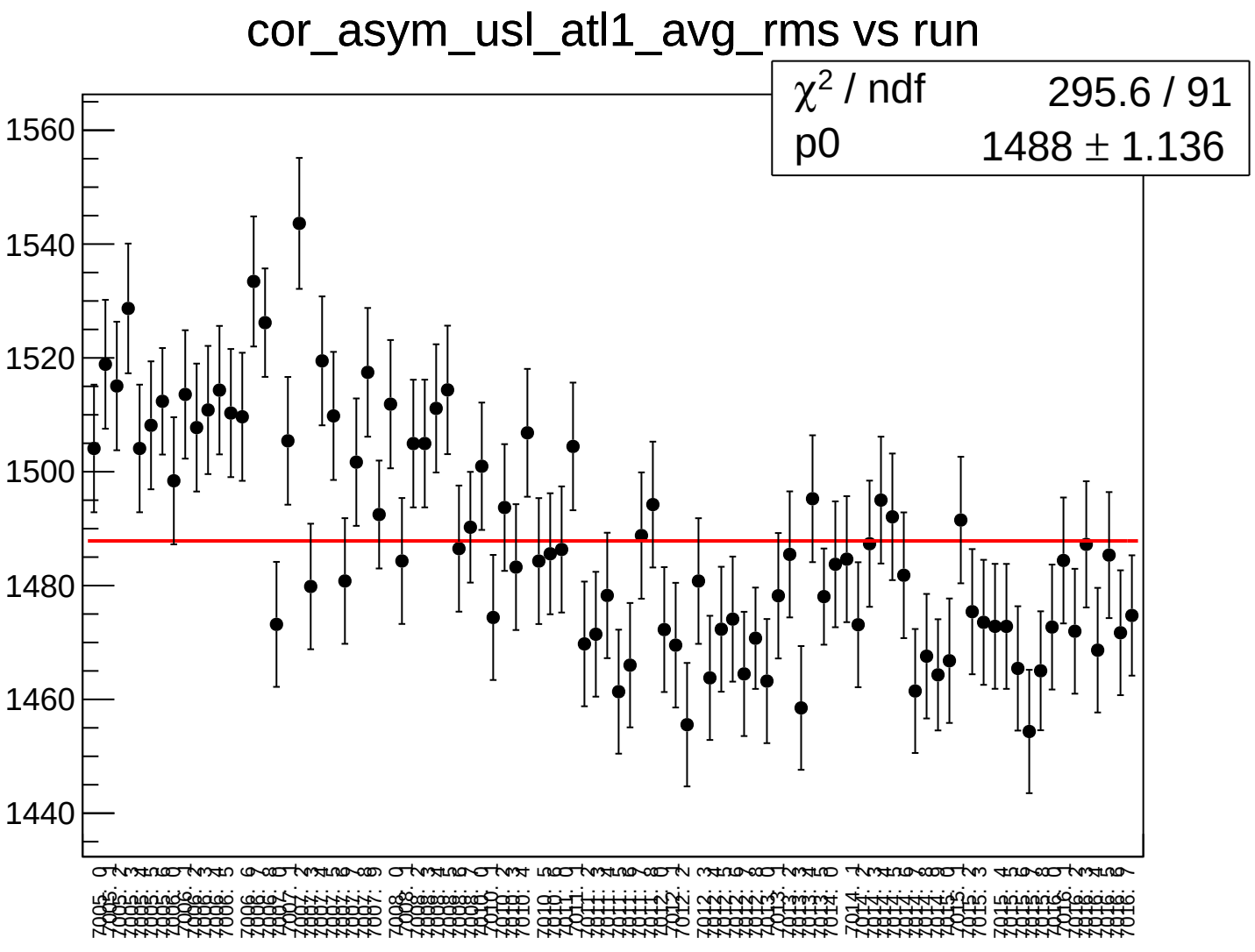

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 85 / 91
p0 −3145 ± 1111
pull
Entries 92
Mean −761.4
Std Dev 0

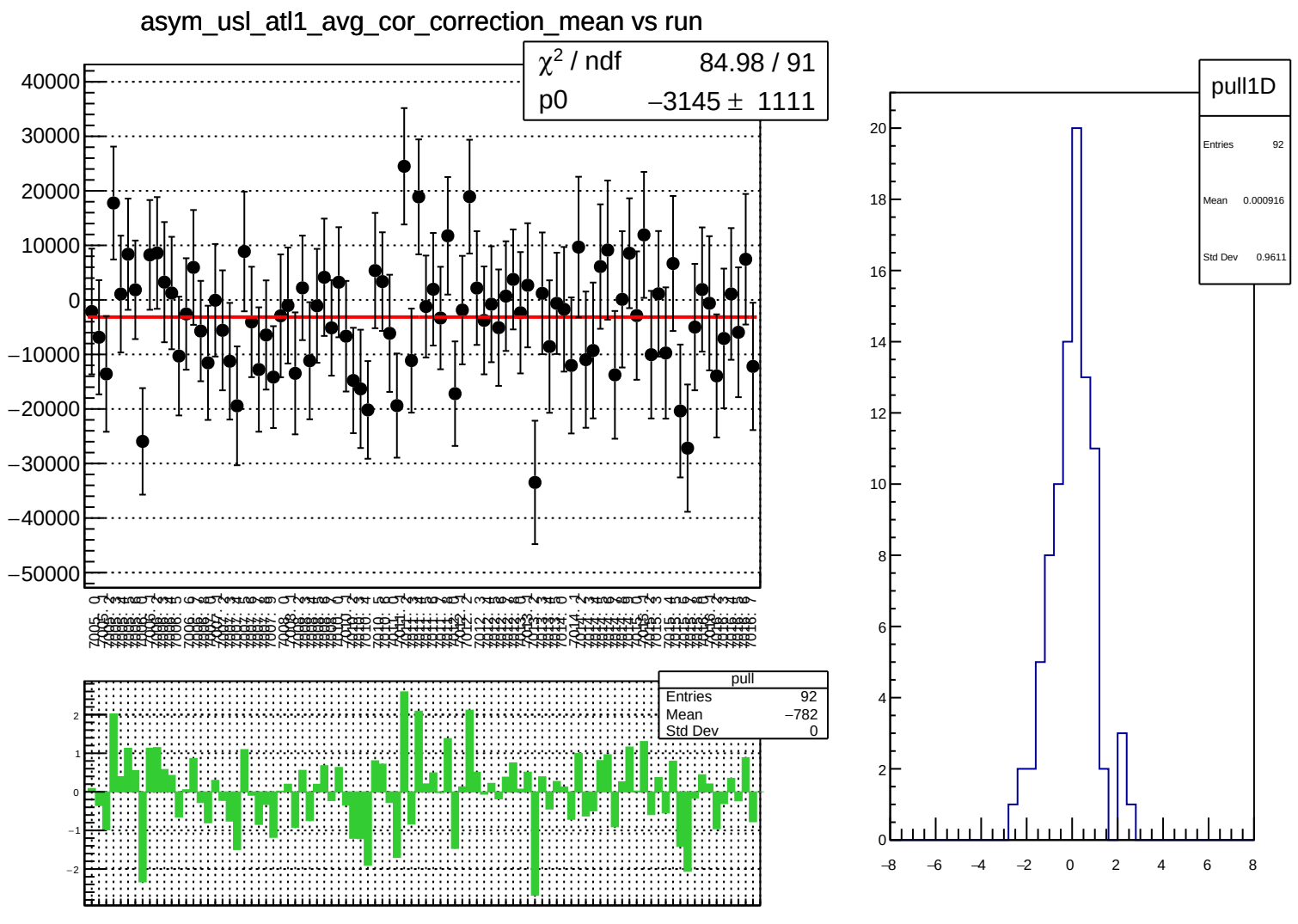

pull1D
Entries 92
Mean 0.0009374
Std Dev 0.9612

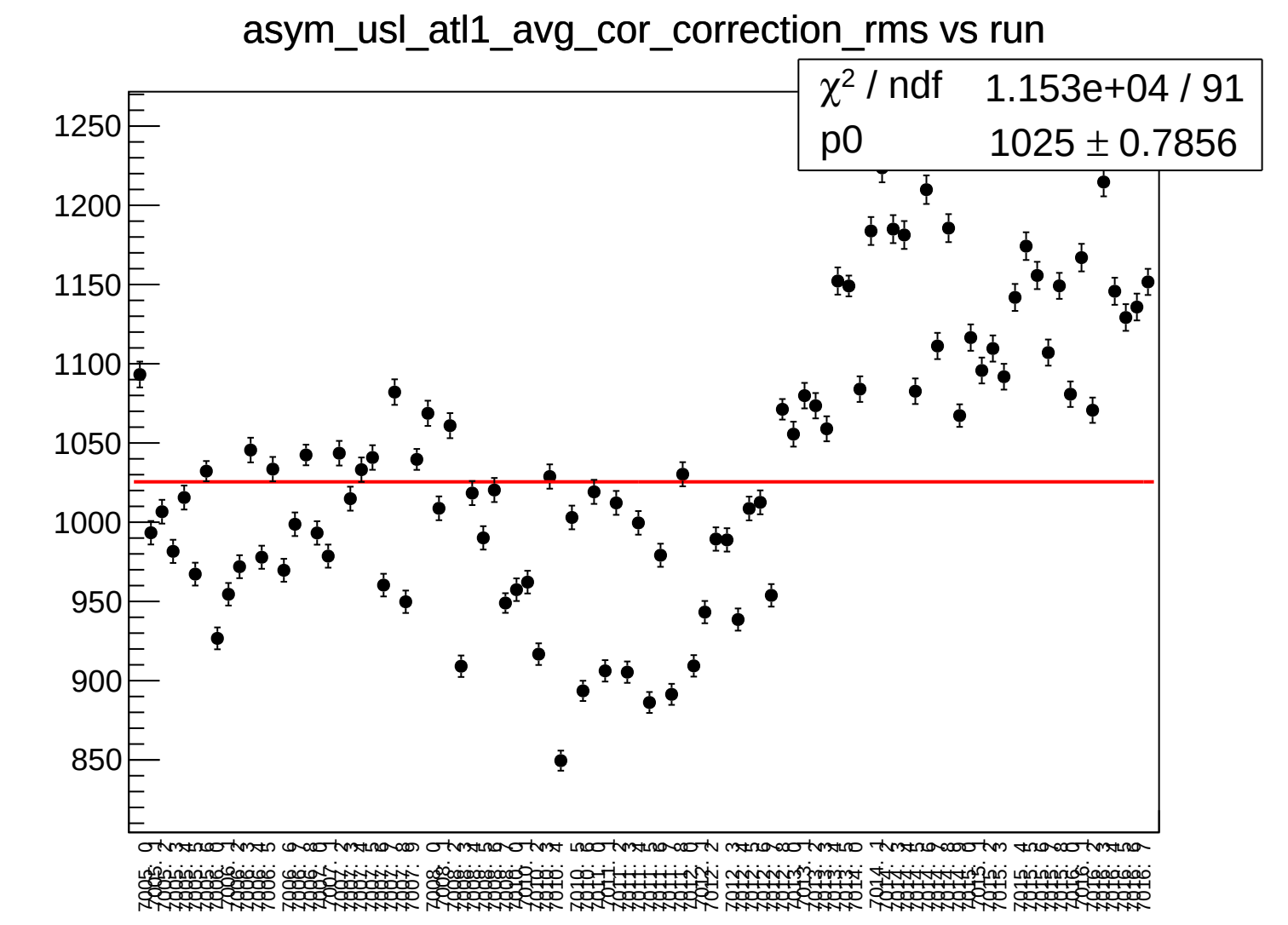

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.153e+04 / 91
p0 1025 ± 0.7856
1250
1200
1150
1100
1050
1000
950
900
850

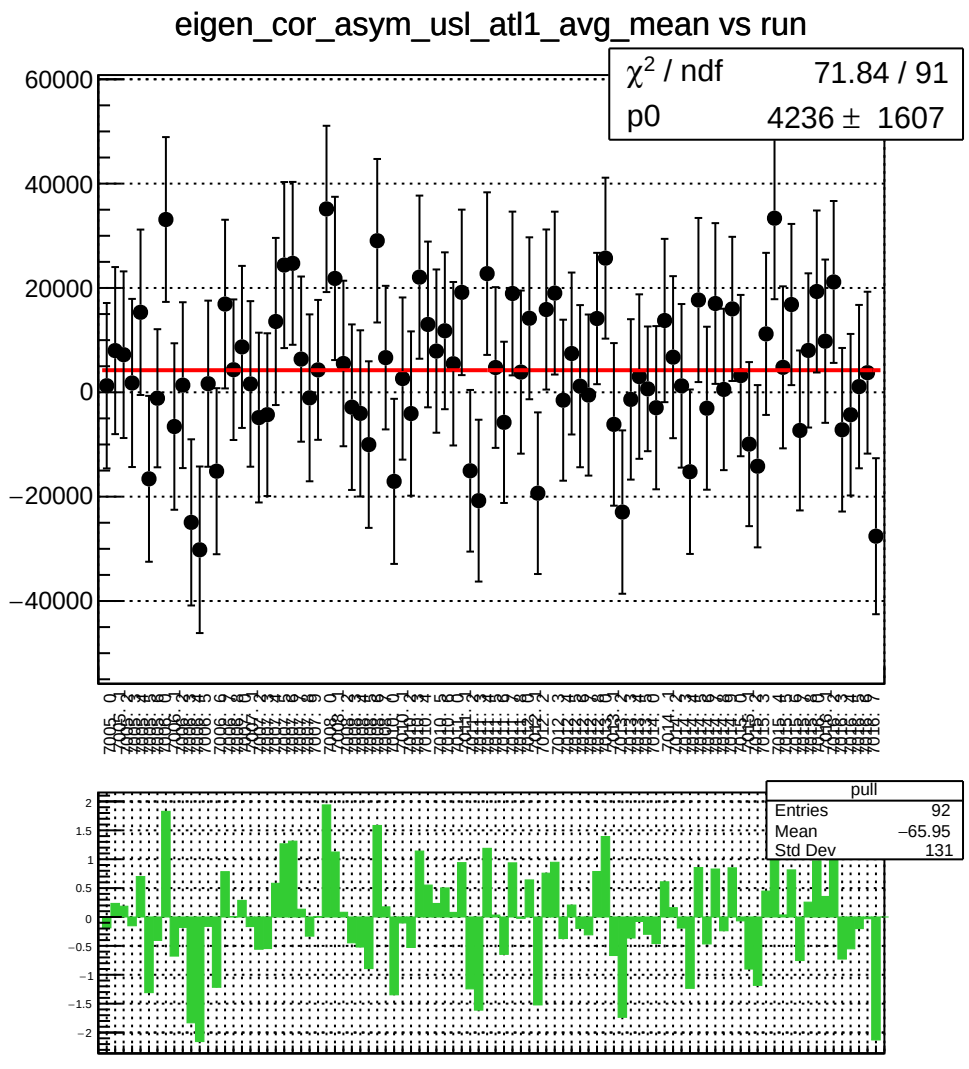

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 71.84 / 91
p0 4236 ± 1607
pull
Entries 92
Mean −65.95
Std Dev 131

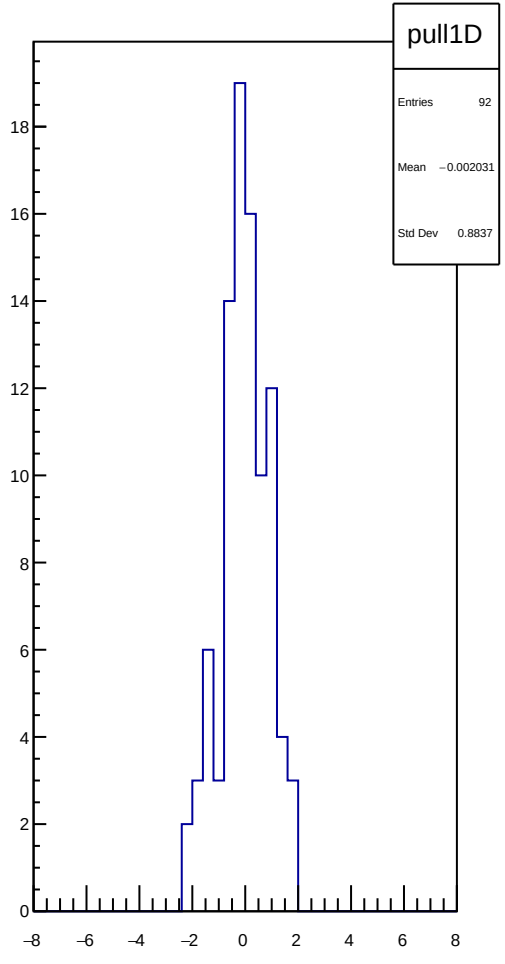

pull1D
Entries 92
Mean −0.002031
Std Dev 0.8837

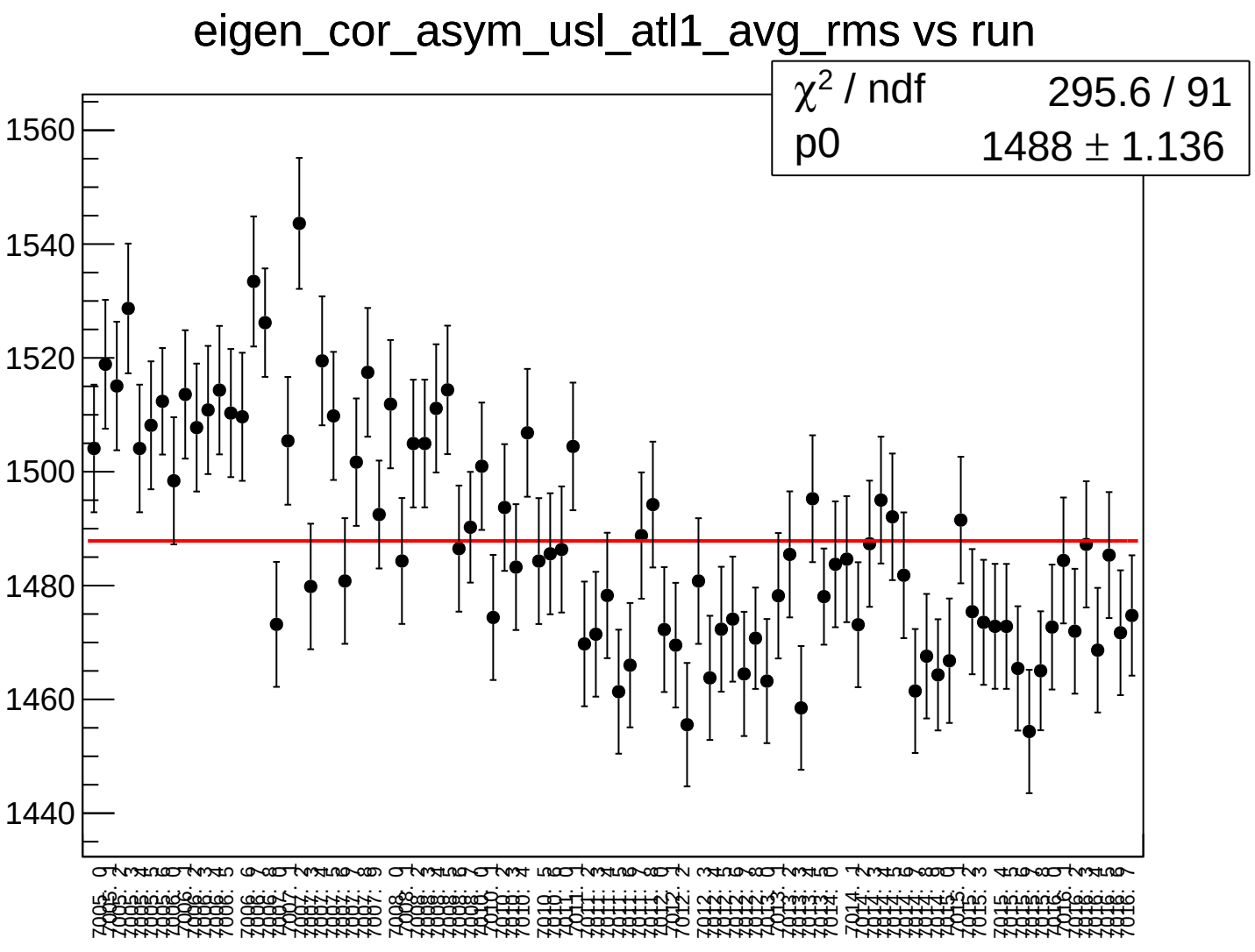

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 295.6 / 91
p0 1488 ± 1.136
1560
1540
1520
1500
1480
1460
1440

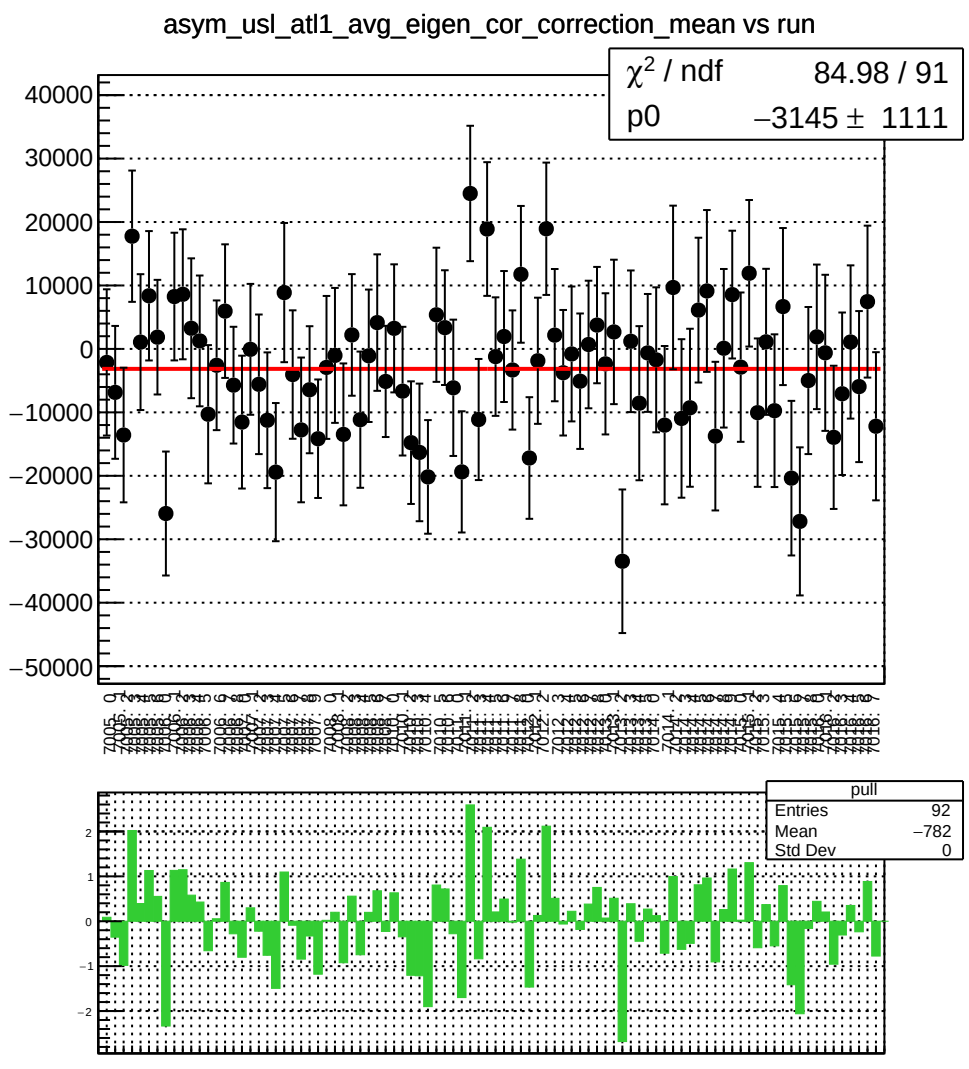

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 84.98 / 91
p0 −3145 ± 1111
pull
Entries 92
Mean −782
Std Dev 0
pull1D
Entries 92
Mean 0.000916
Std Dev 0.9611

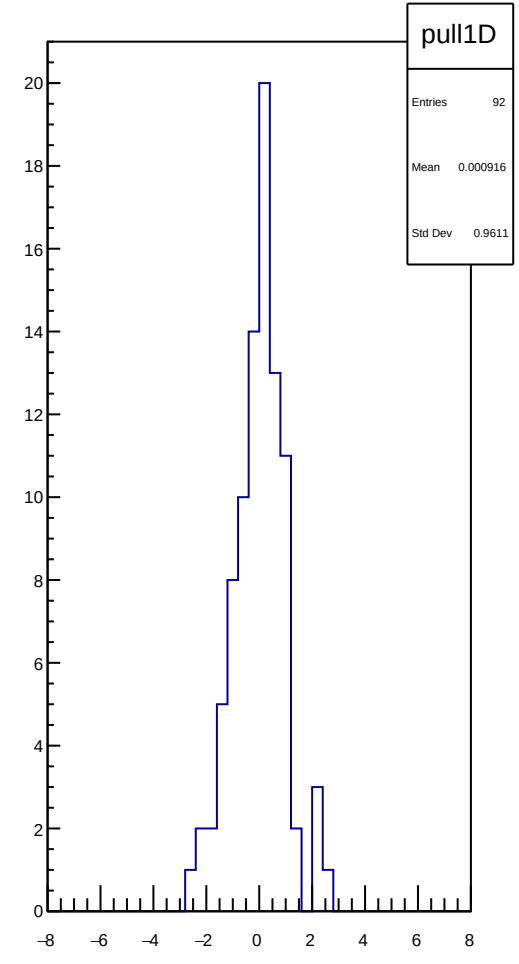

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.153e+04 / 91
p0 1025 ± 0.7856
1250
1200
1150
1100
1050
1000
950
900
850

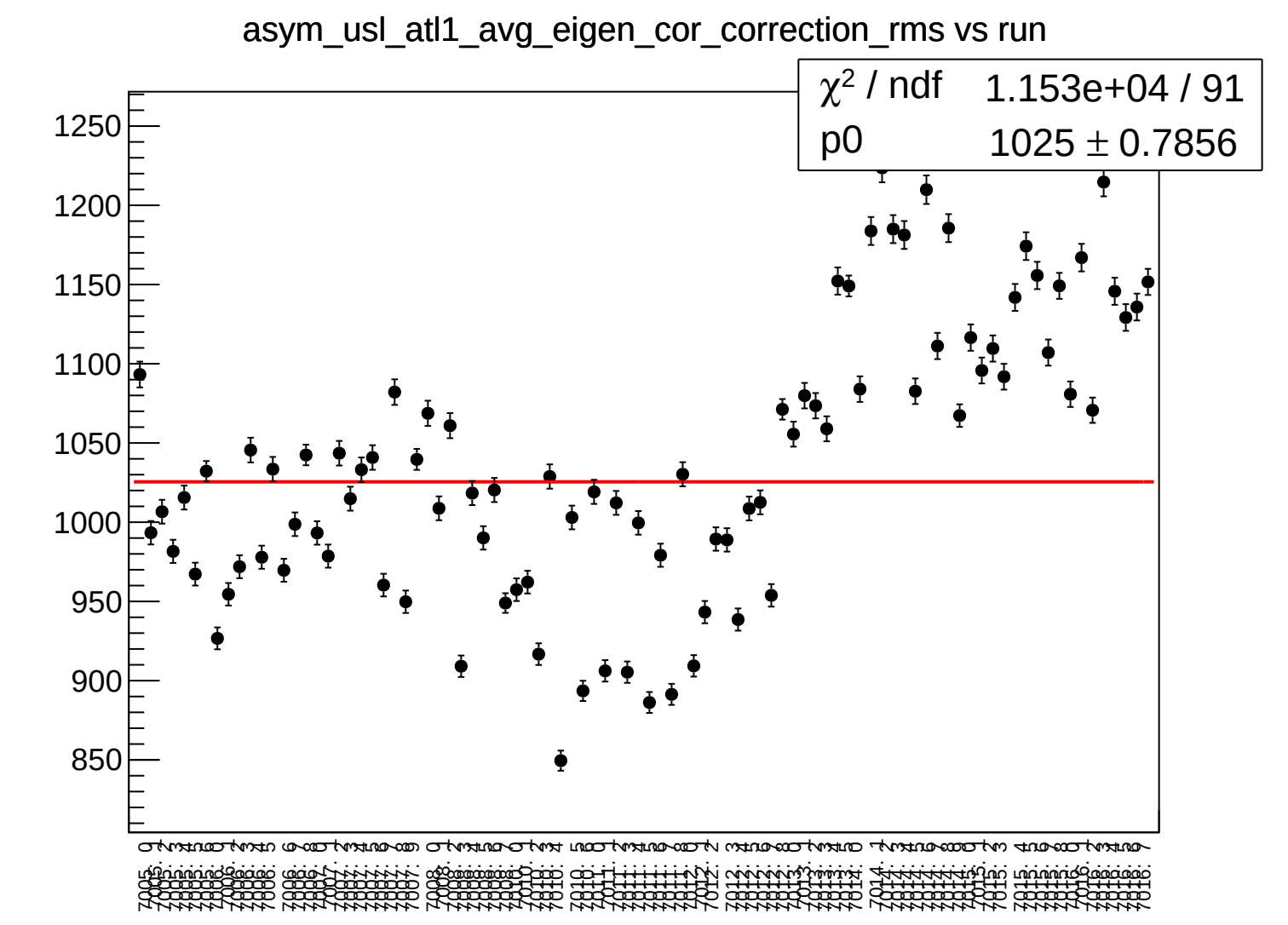

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 71.84 / 91
p0 4236 ± 1607
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −65.95
Std Dev 131
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

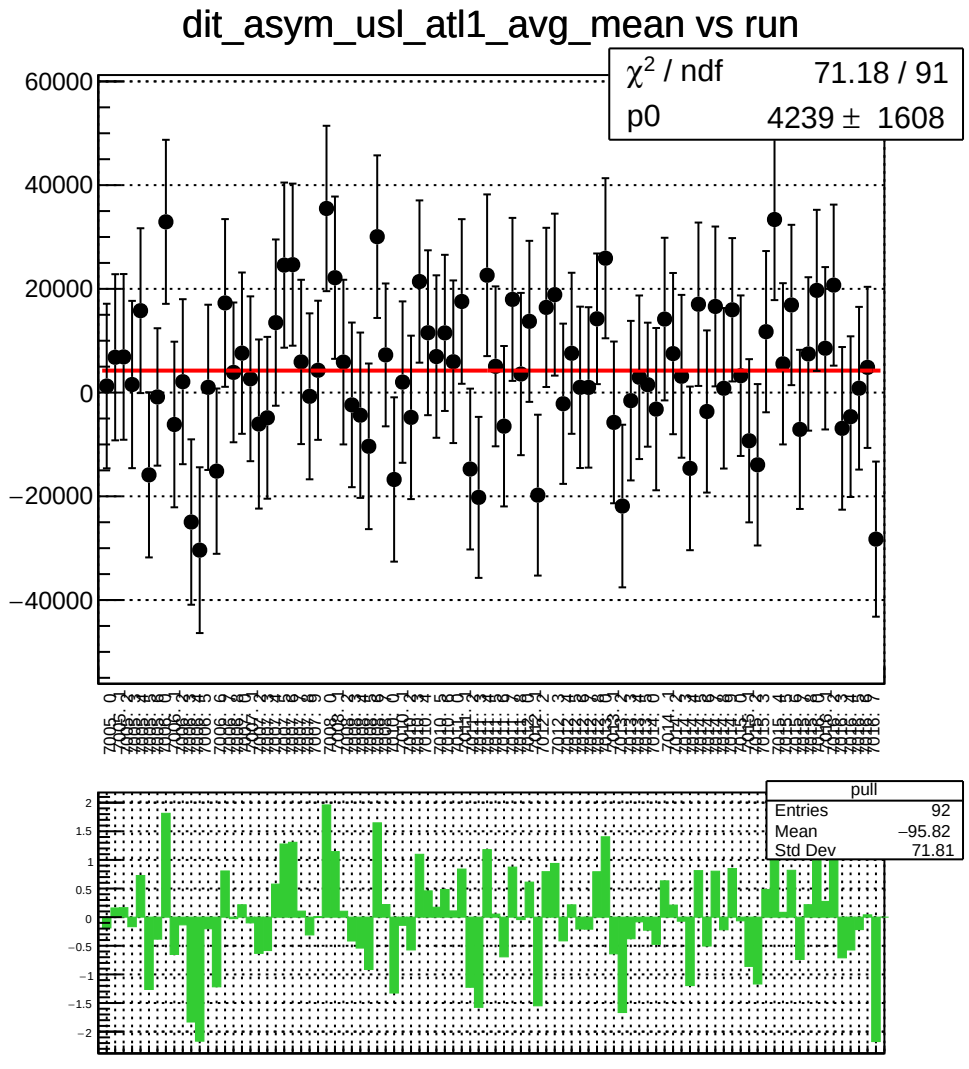

pull1D
Entries 92
Mean −0.002031
Std Dev 0.8837
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

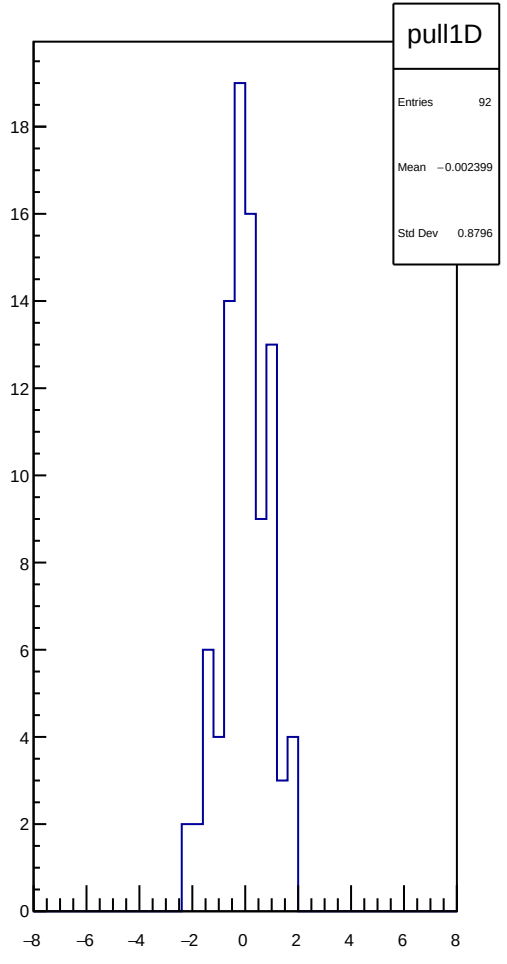

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 295.6 / 91
p0 1488 ± 1.136
1560
1540
1520
1500
1480
1460
1440

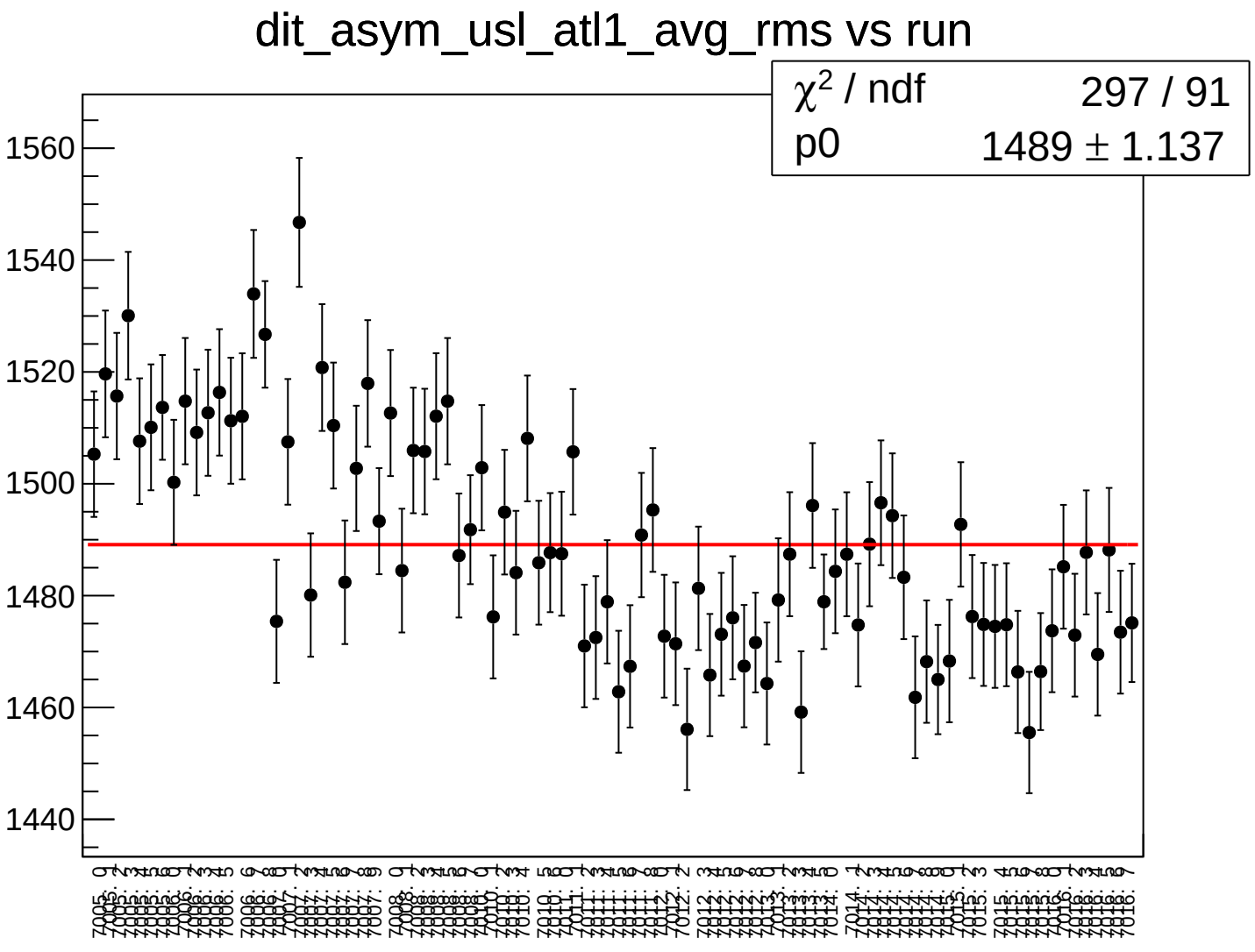

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.98 / 91
p0 −3145 ± 1111
pull
Entries 92
Mean −782
Std Dev 0

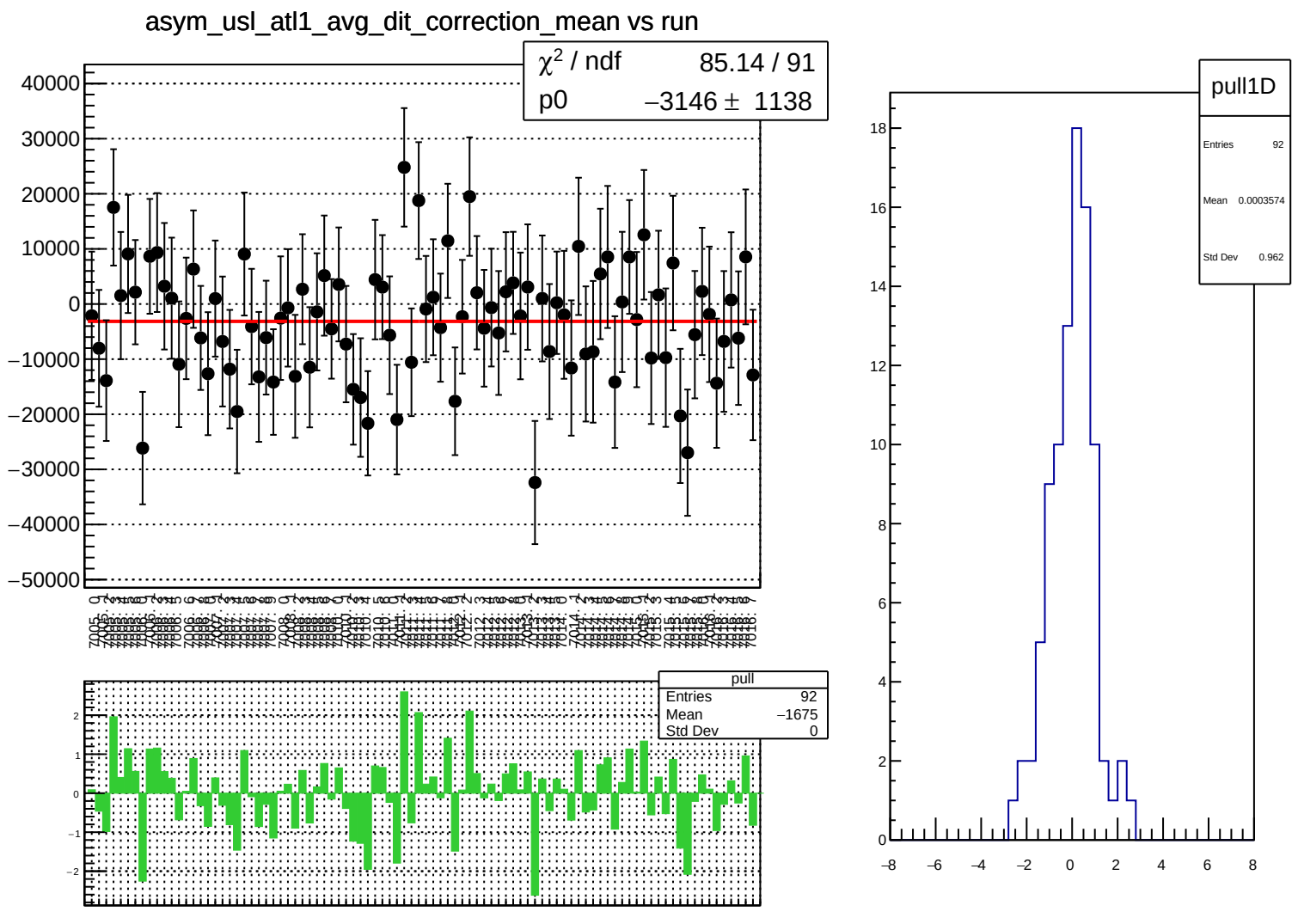

pull1D
Entries 92
Mean 0.000916
Std Dev 0.9611

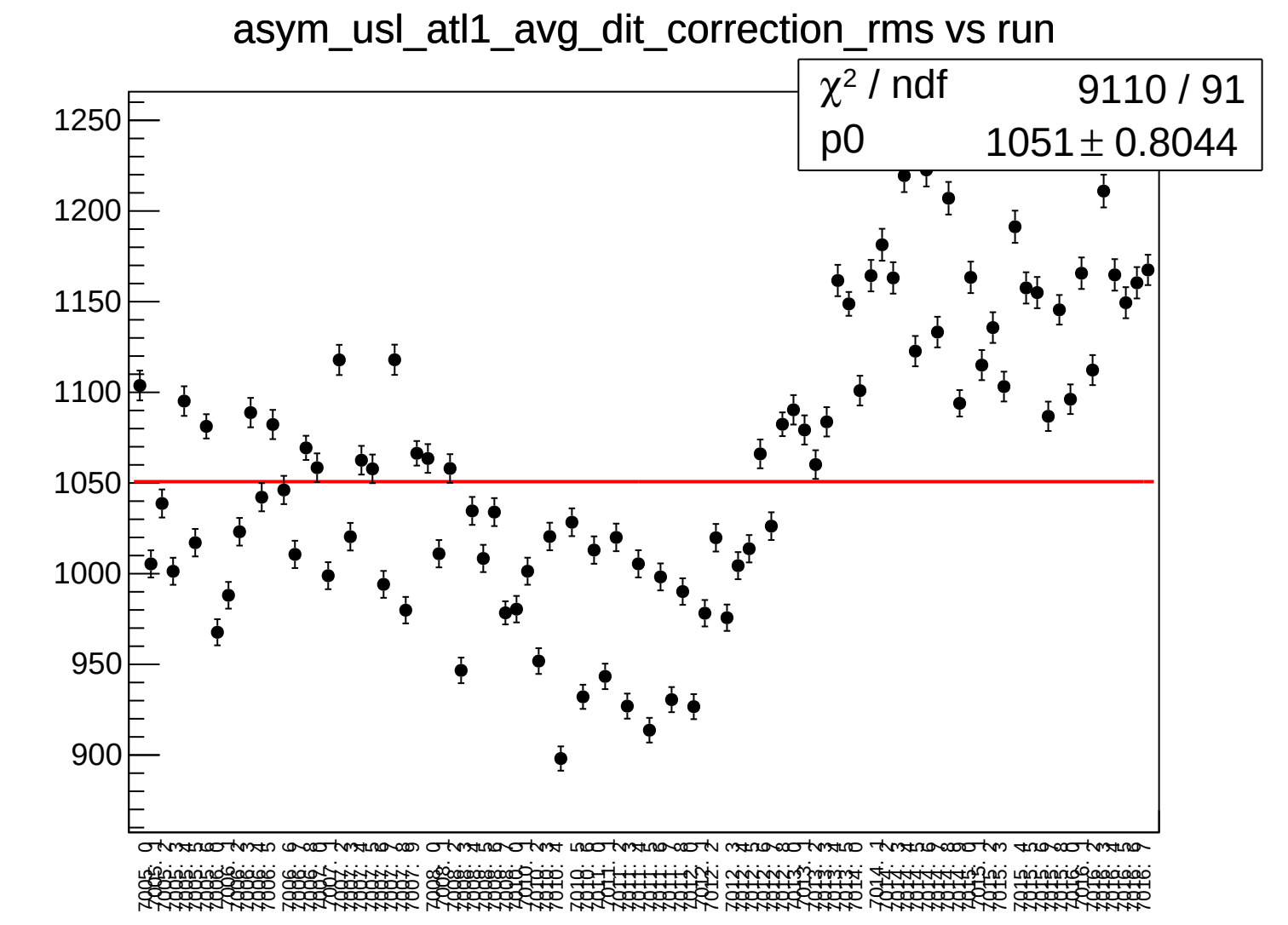

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.153e+04 / 91
p0 1025 ± 0.7856
1250
1200
1150
1100
1050
1000
950
900
850

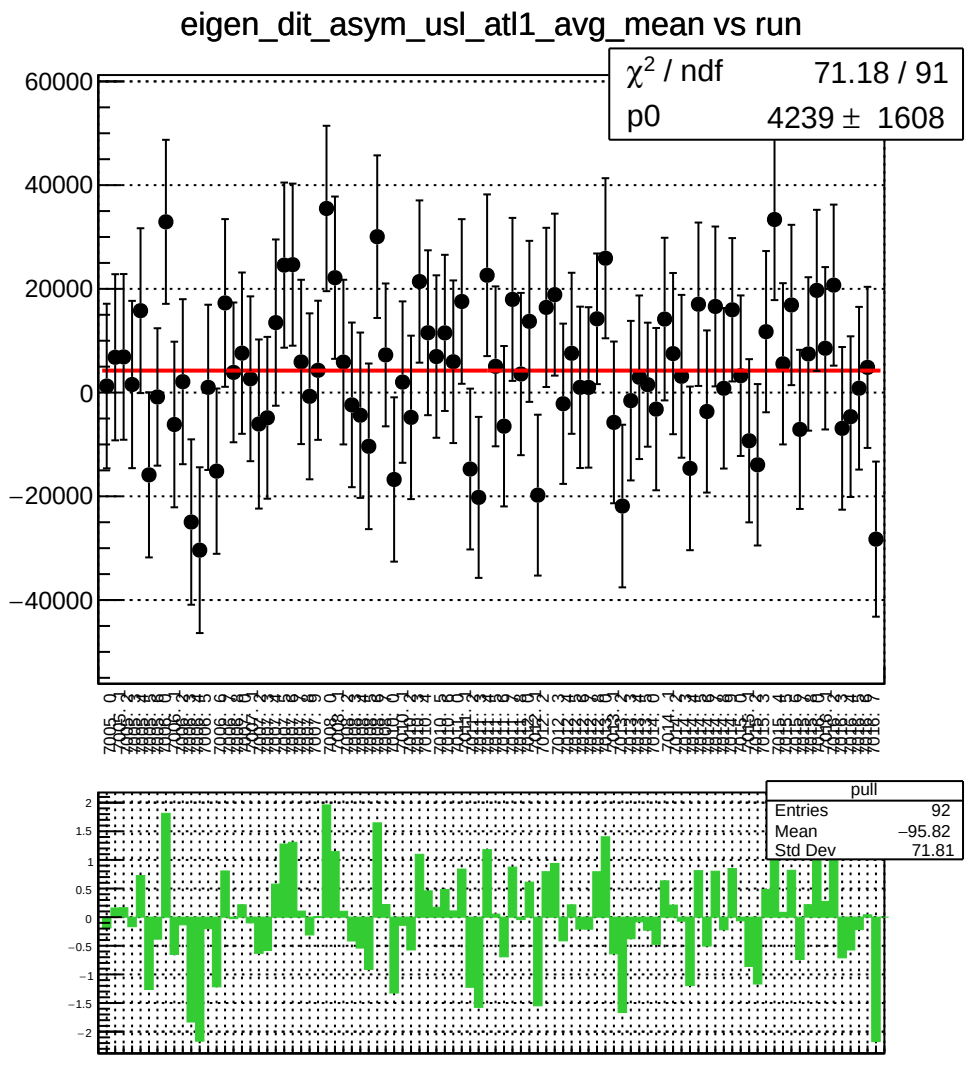

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 71.18 / 91
p0 4239 ± 1608
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −95.82
Std Dev 71.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

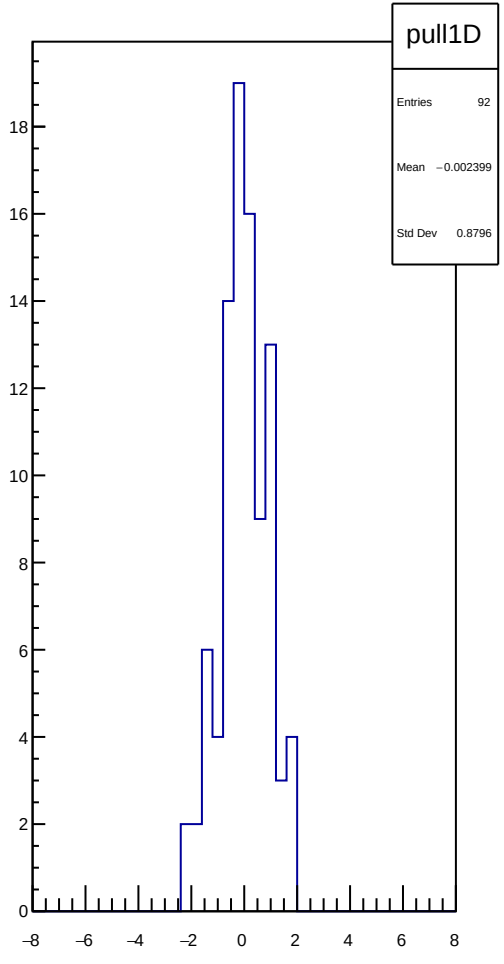

pull1D
Entries 92
Mean −0.002399
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

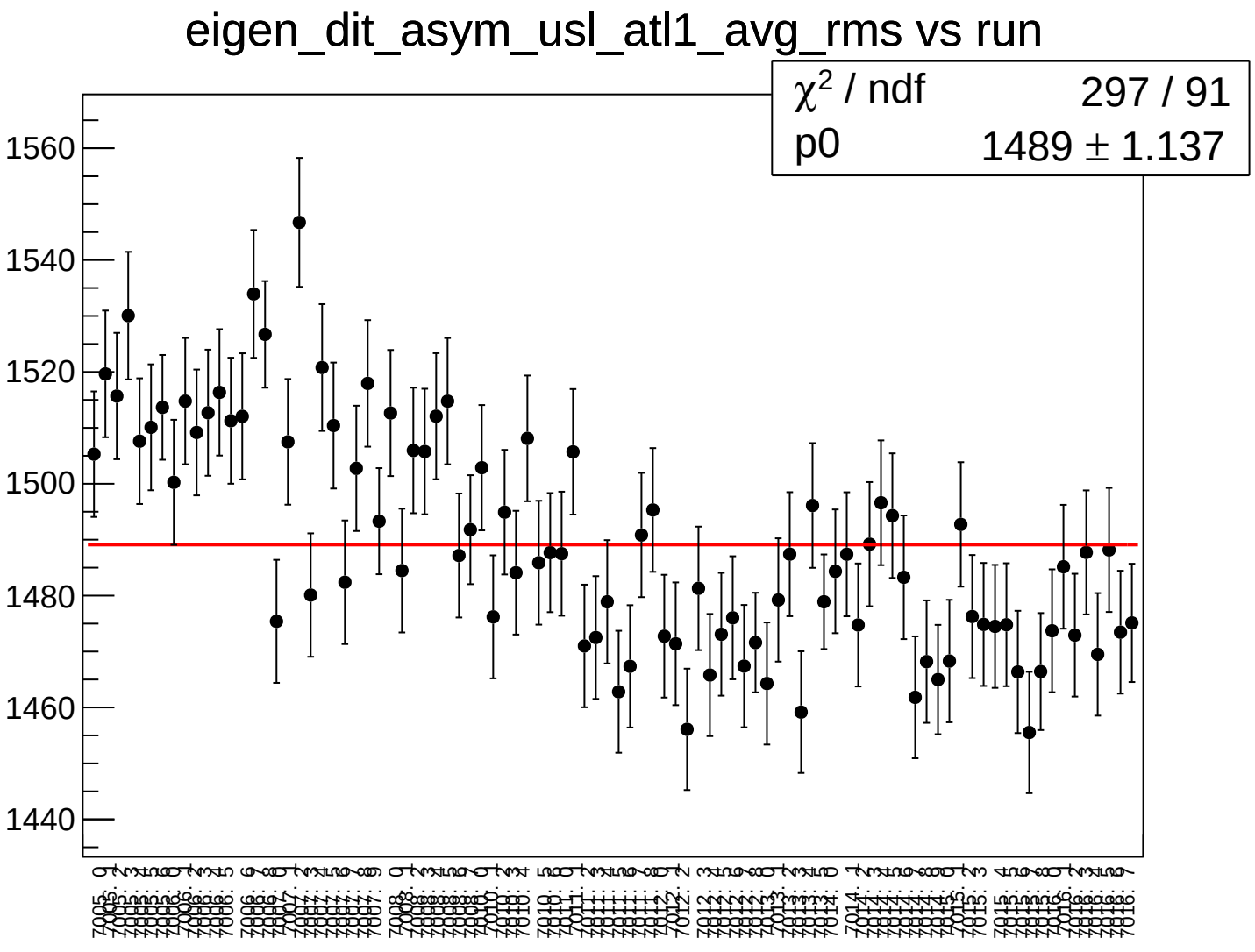

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 297 / 91
p0 1489 ± 1.137
1560
1540
1520
1500
1480
1460
1440

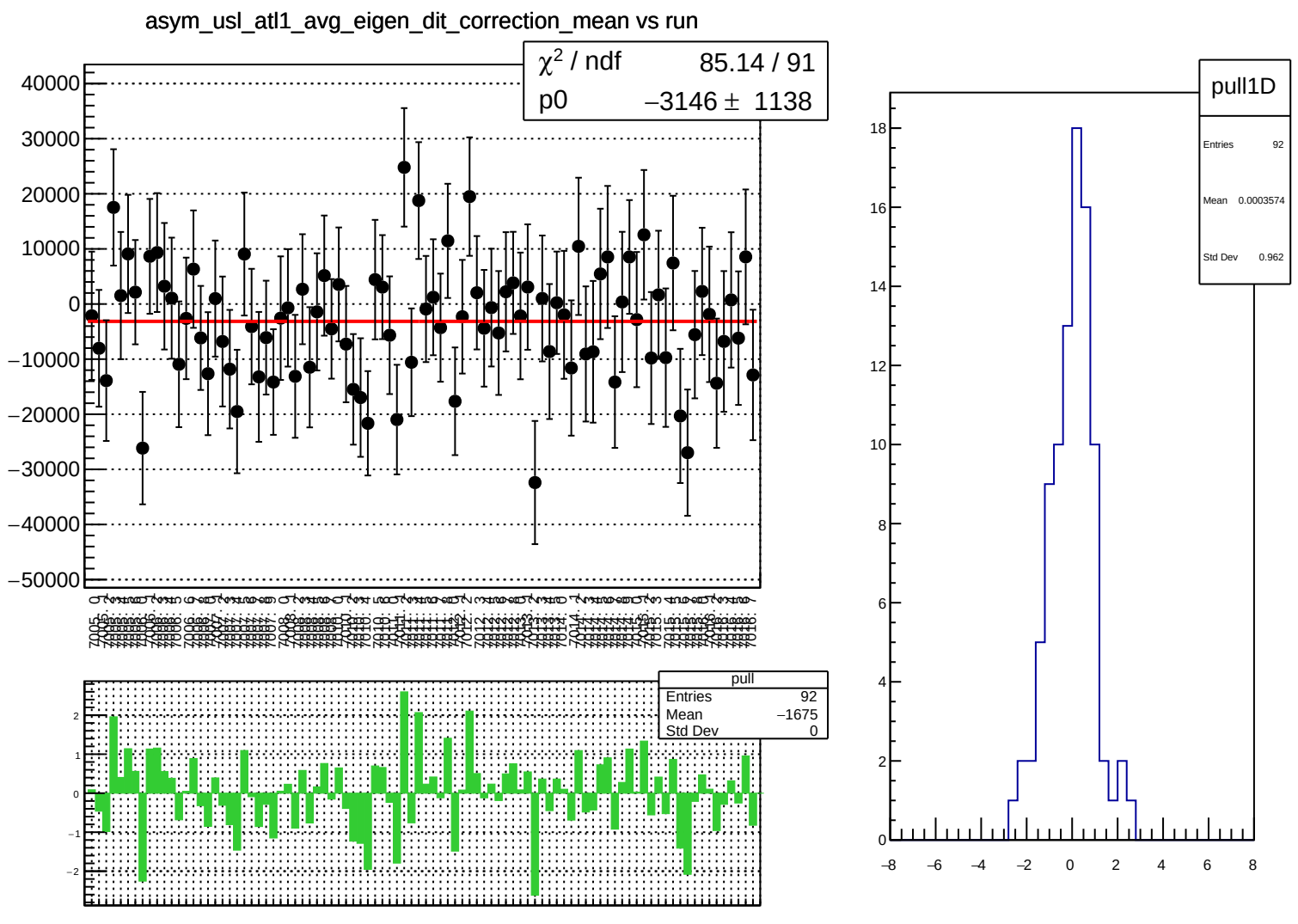

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 85.14 / 91
p0 −3146 ± 1138
pull
Entries 92
Mean −1675
Std Dev 0
pull1D
Entries 92
Mean 0.0003574
Std Dev 0.962

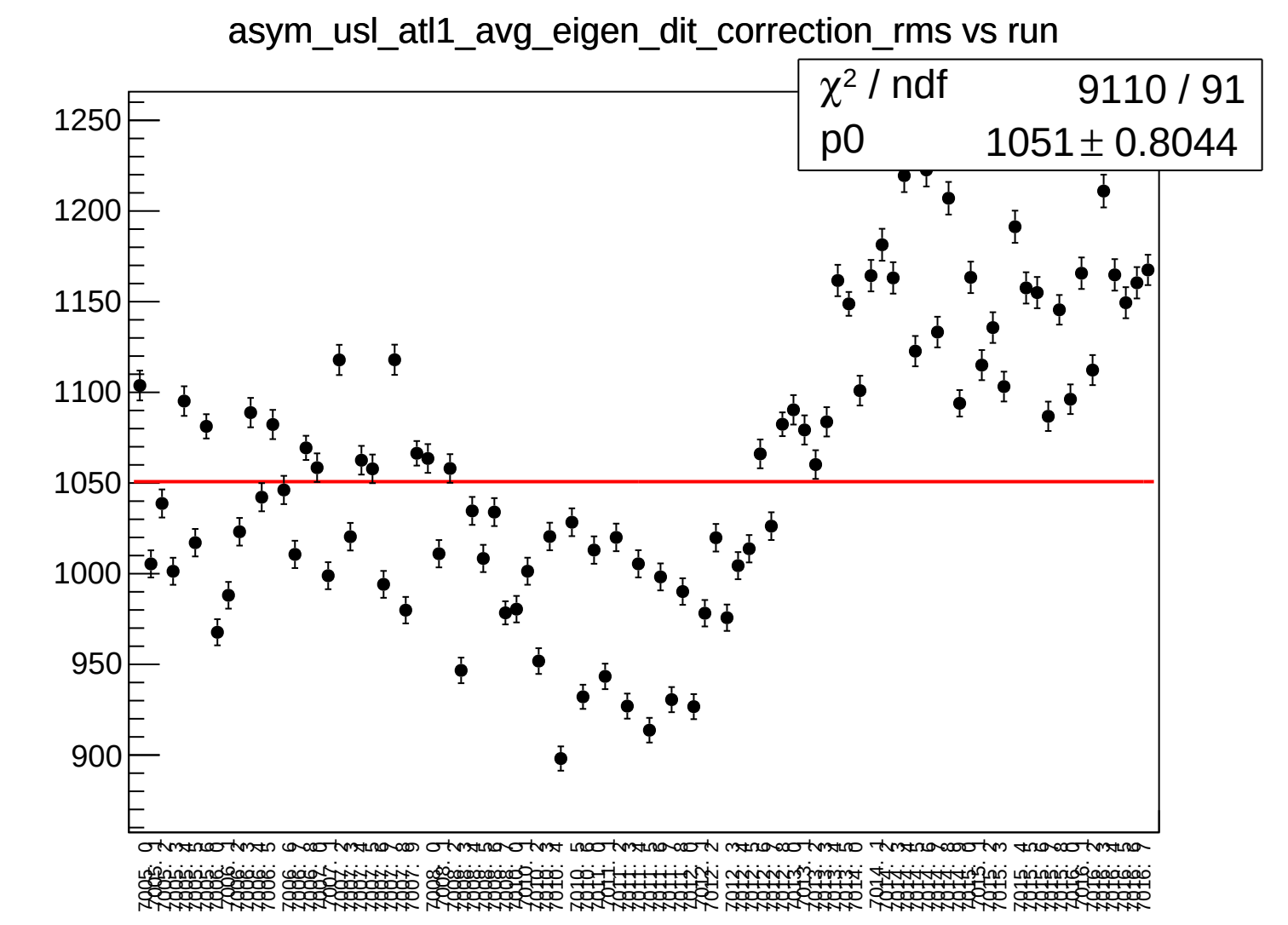

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 9110 / 91
p0 1051 ± 0.8044
1250
1200
1150
1100
1050
1000
950
900

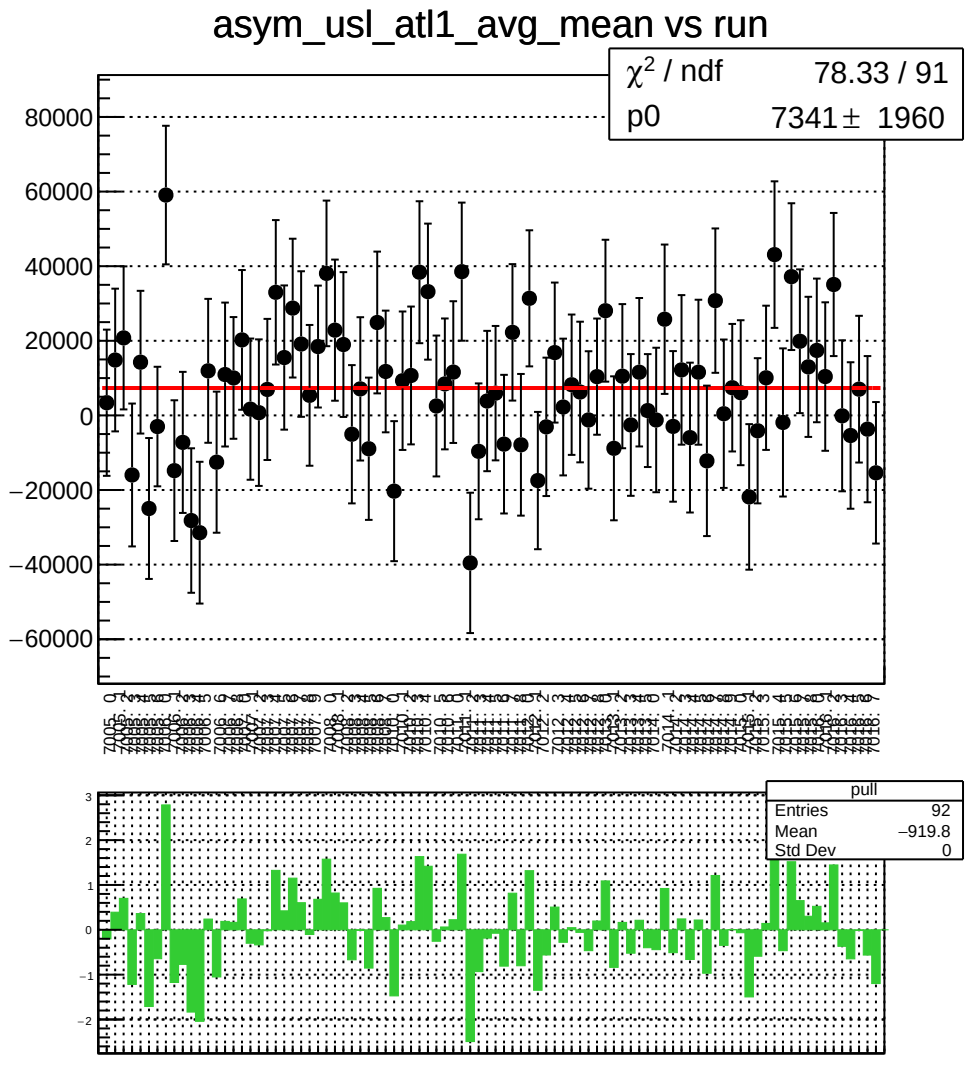

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 71.18 / 91
p0 4239 ± 1608
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −95.82
Std Dev 71.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

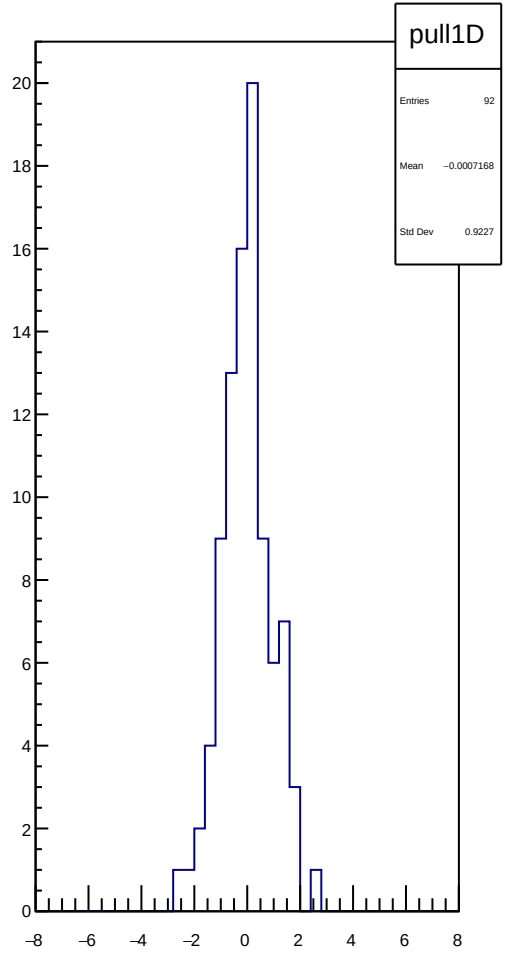

pull1D
Entries 92
Mean −0.002399
Std Dev 0.8796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

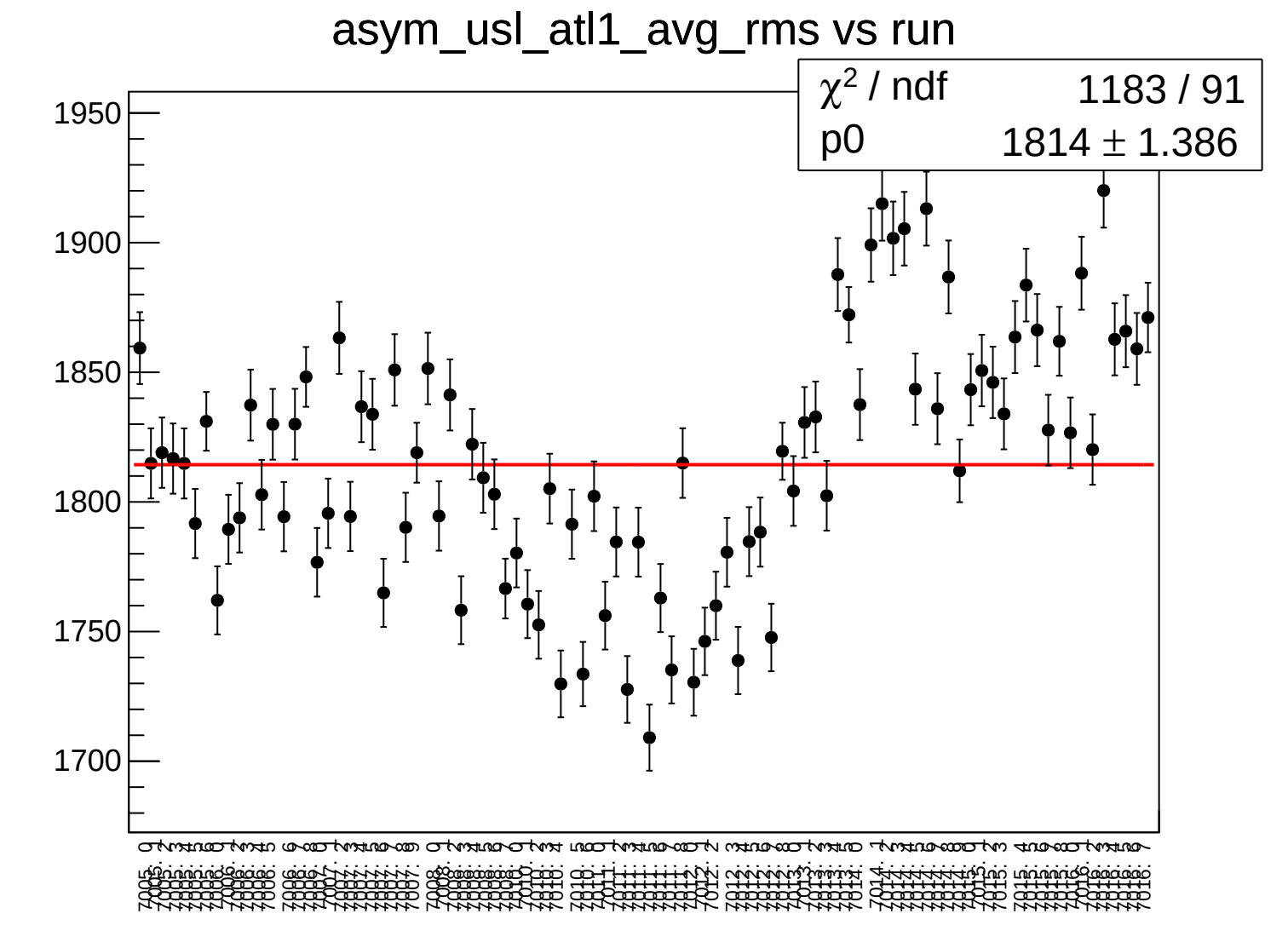

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 297 / 91
p0 1489 ± 1.137
1560
1540
1520
1500
1480
1460
1440

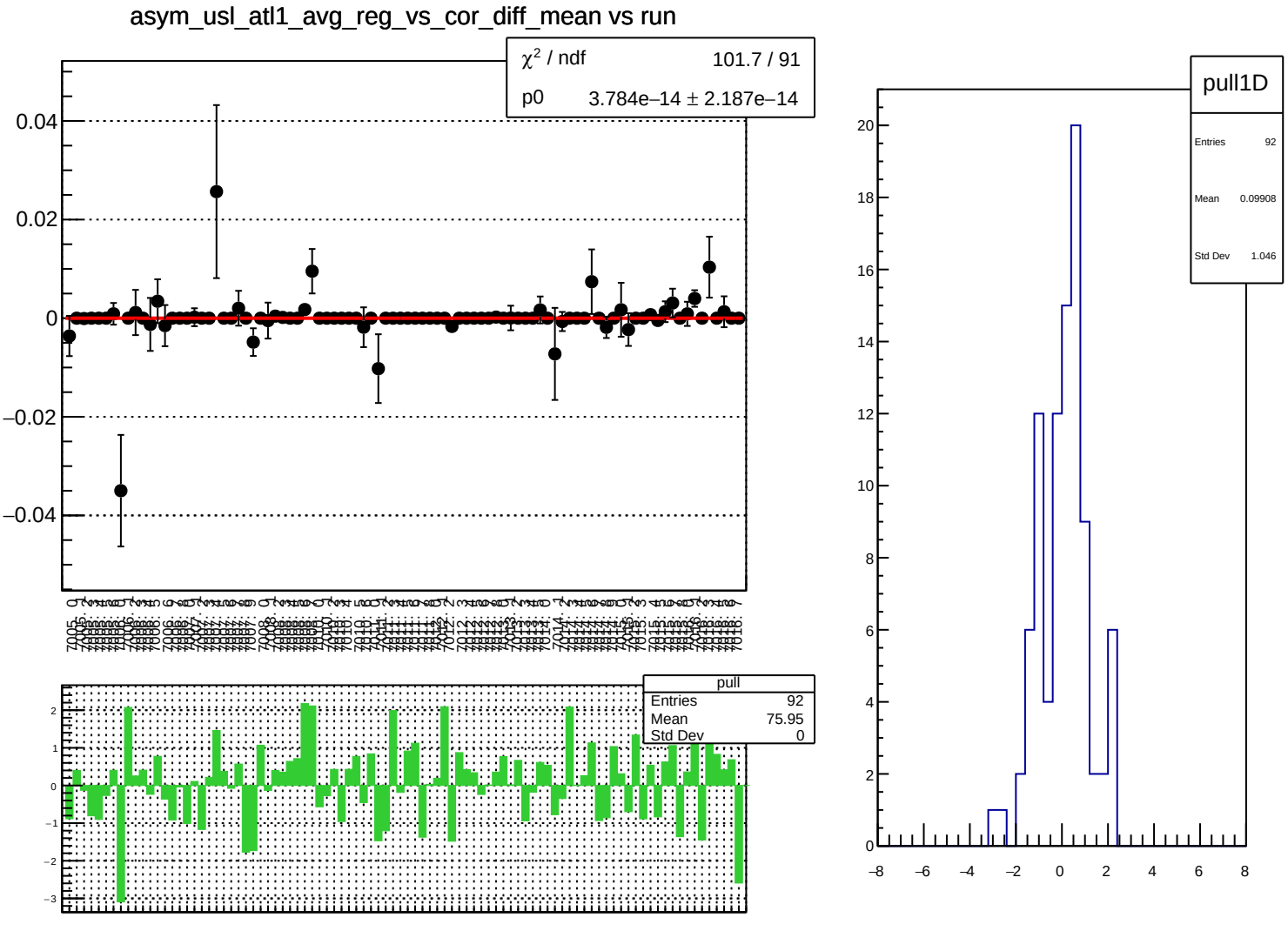

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.14 / 91
p0 −3146 ± 1138
pull
Entries 92
Mean −1675
Std Dev 0
pull1D
Entries 92
Mean 0.0003574
Std Dev 0.962

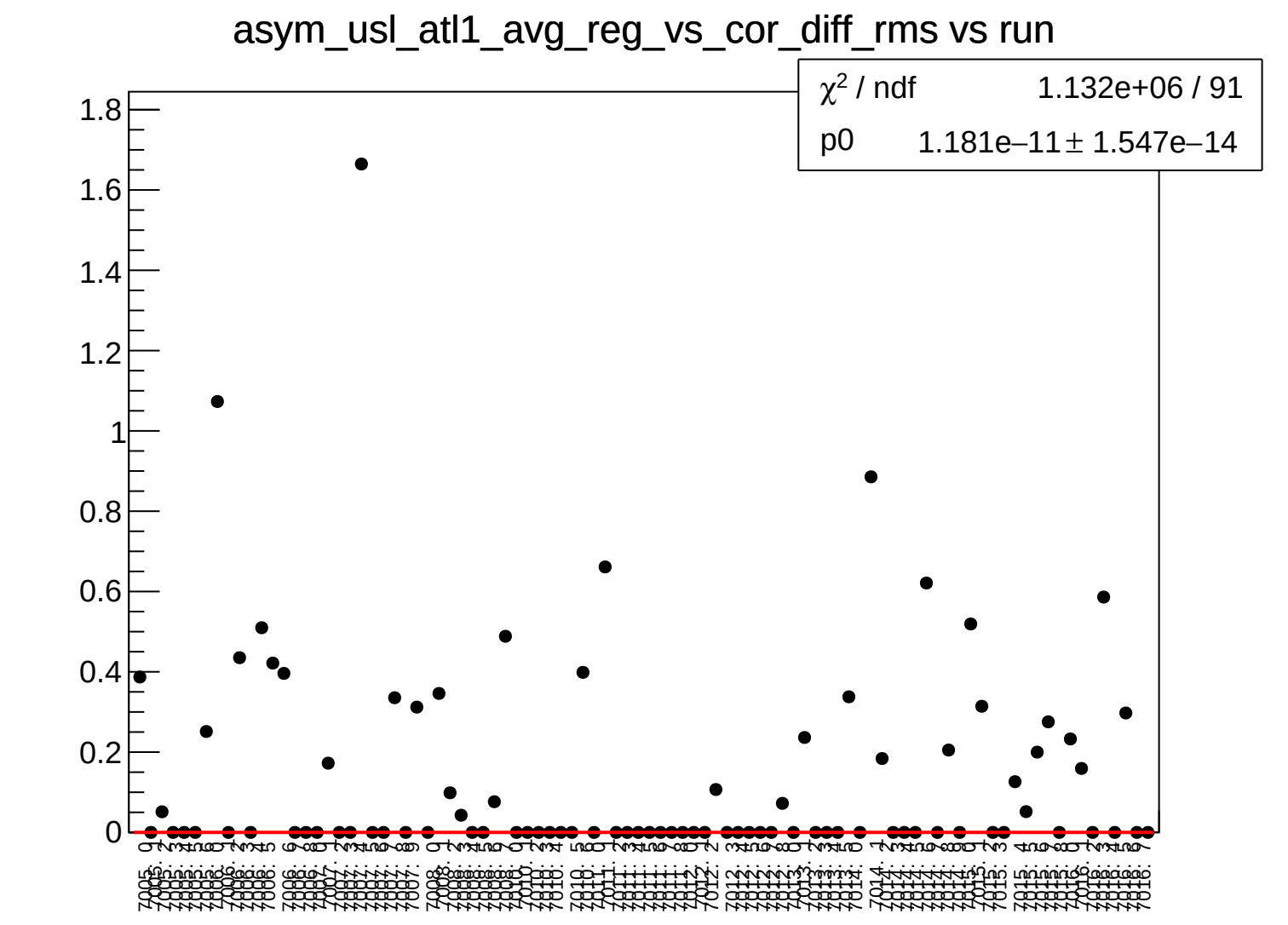

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 9110 / 91
p0 1051 ± 0.8044
1250
1200
1150
1100
1050
1000
950
900

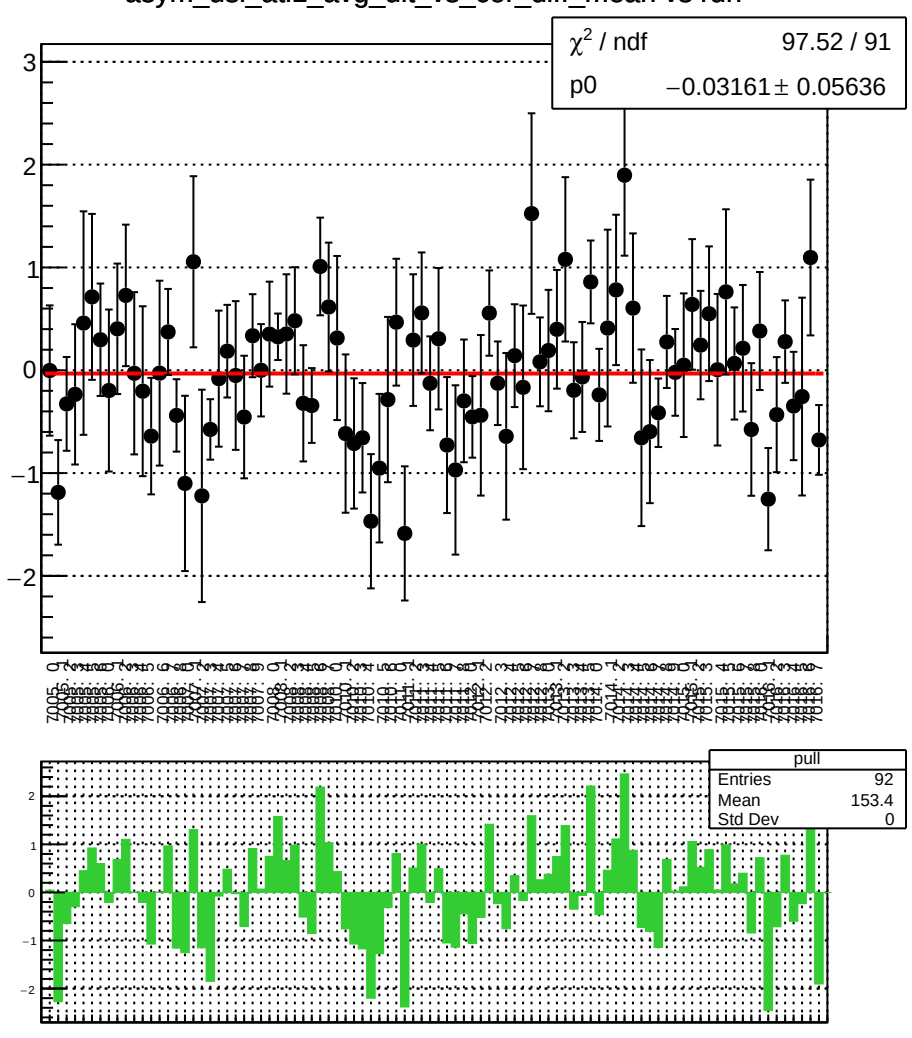

asym_usl_atl1_avg_mean vs run
χ² / ndf 78.33 / 91
p0 7341 ± 1960
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −919.8
Std Dev 0
3
2
1
0
−1
−2

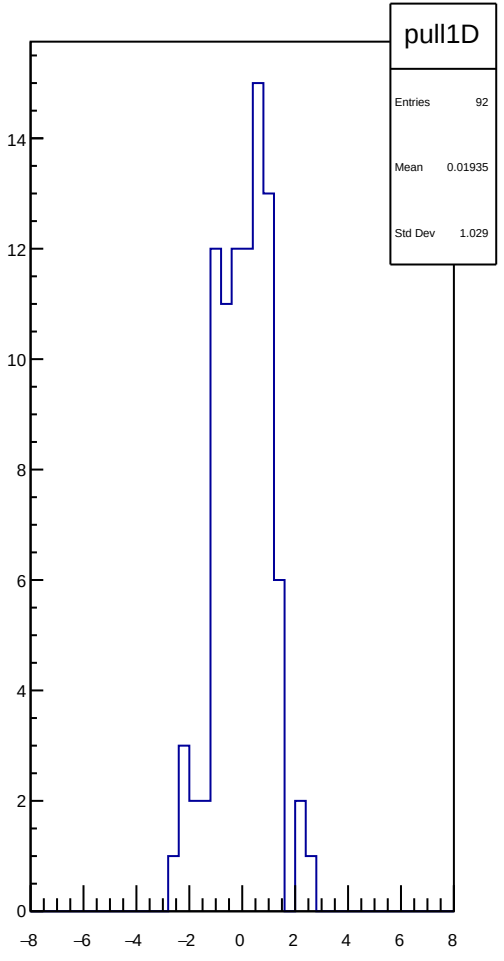

pull1D
Entries 92
Mean −0.0007168
Std Dev 0.9227
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

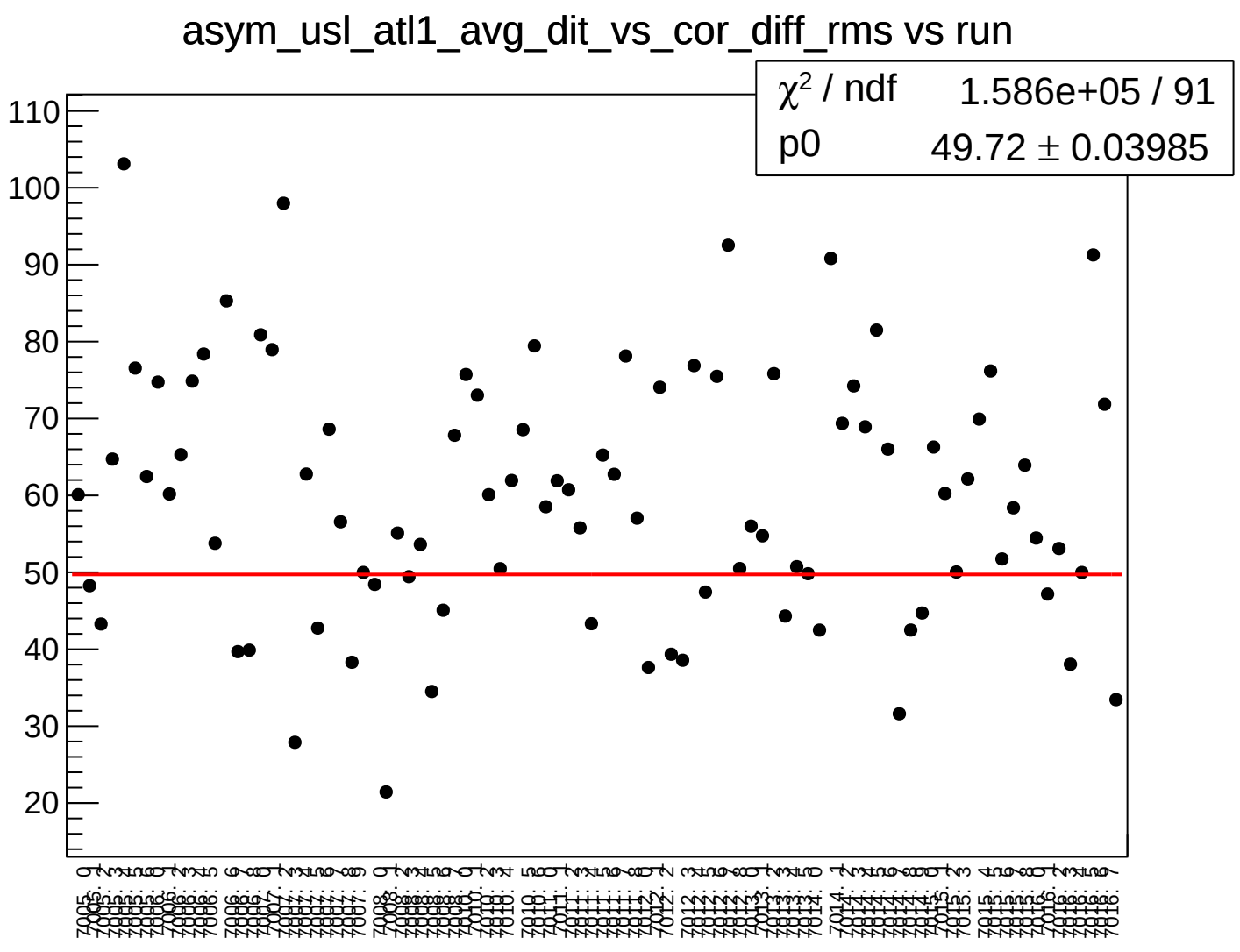

asym_usl_atl1_avg_rms vs run
χ² / ndf 1183 / 91
p0 1814 ± 1.386
1950
1900
1850
1800
1750
1700

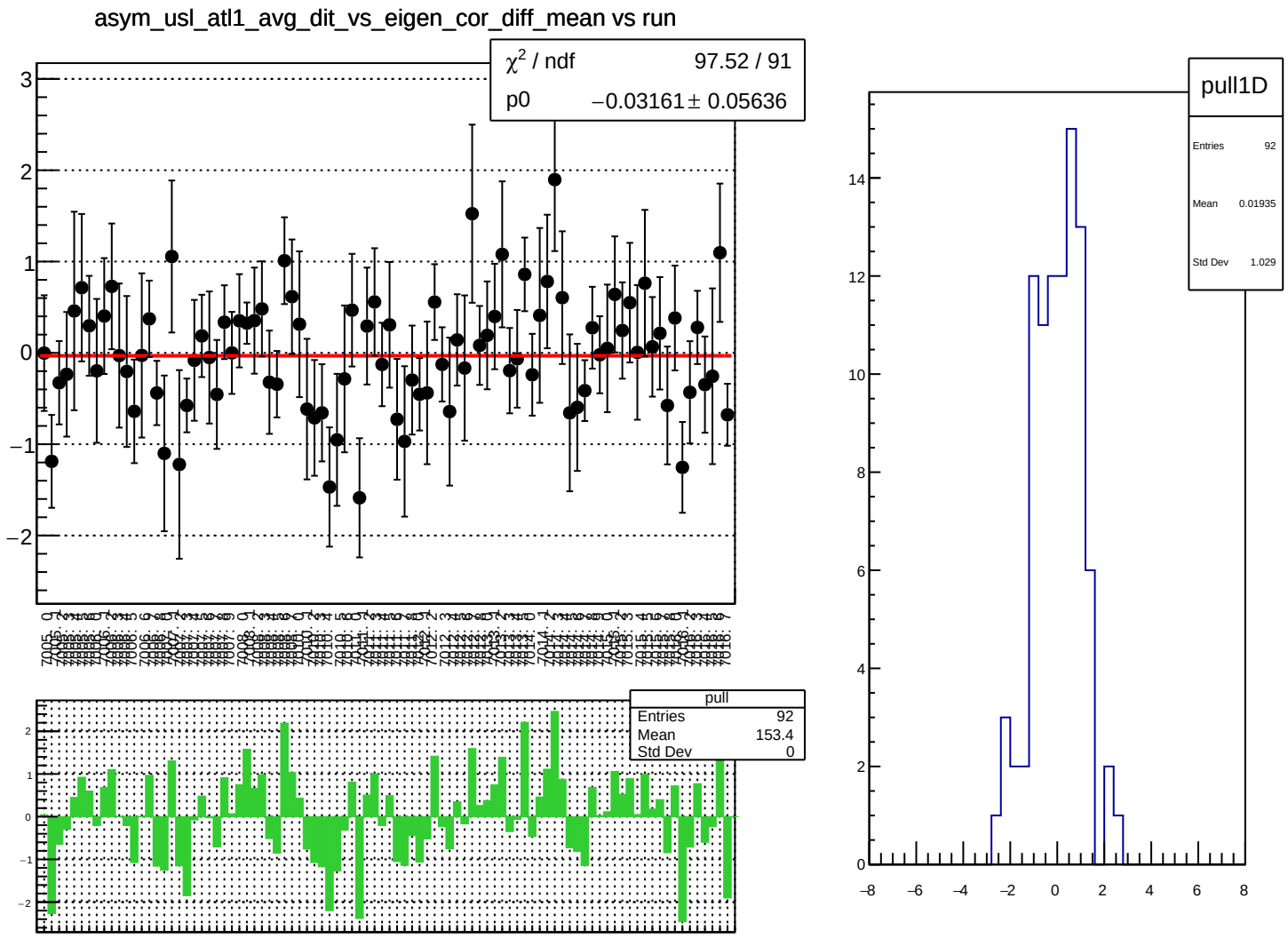

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 91
p0 3.784e−14 ± 2.187e−14
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean 75.95
Std Dev 0
pull1D
Entries 92
Mean 0.09908
Std Dev 1.046

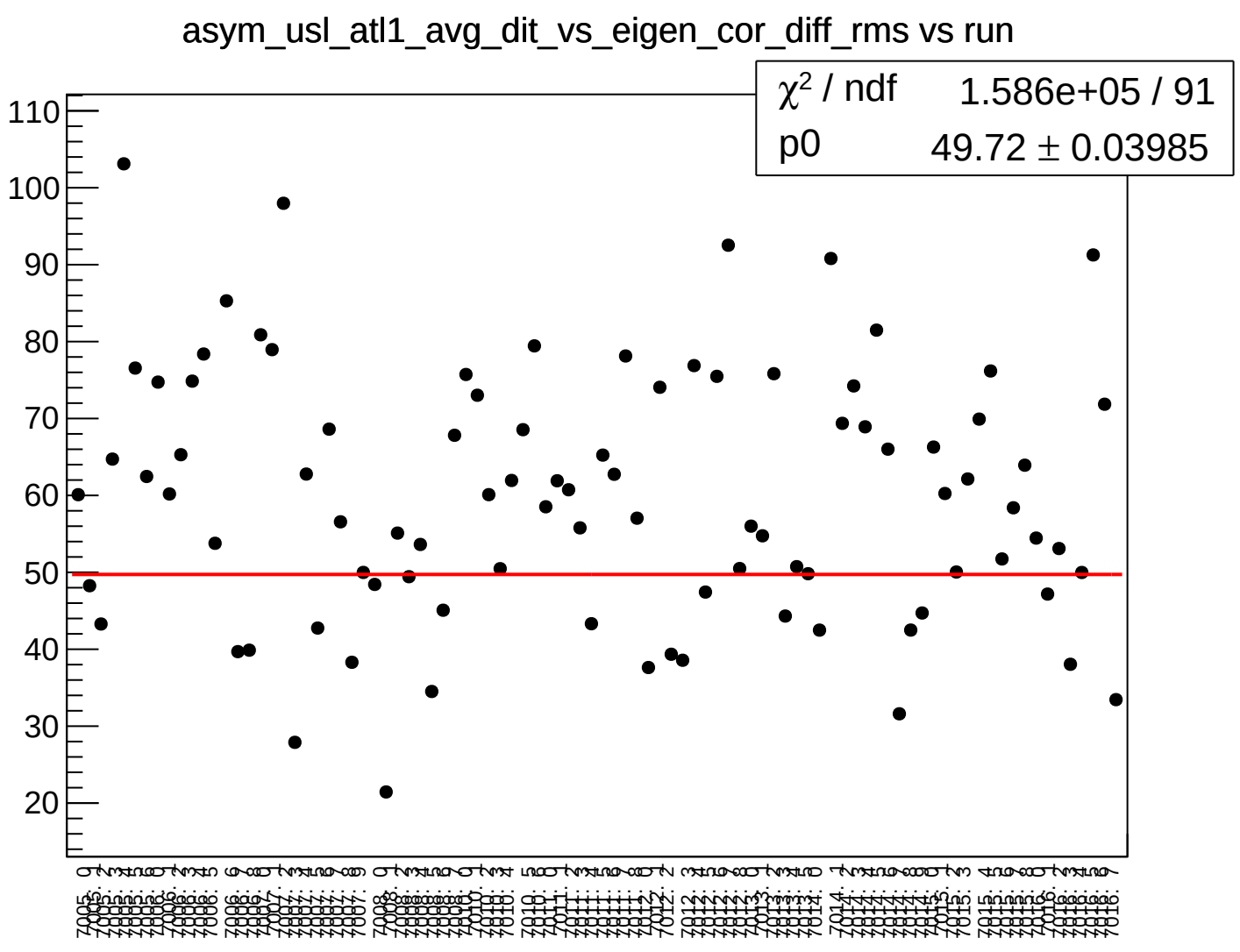

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.132e+06 / 91
p0 1.181e−11 ± 1.547e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

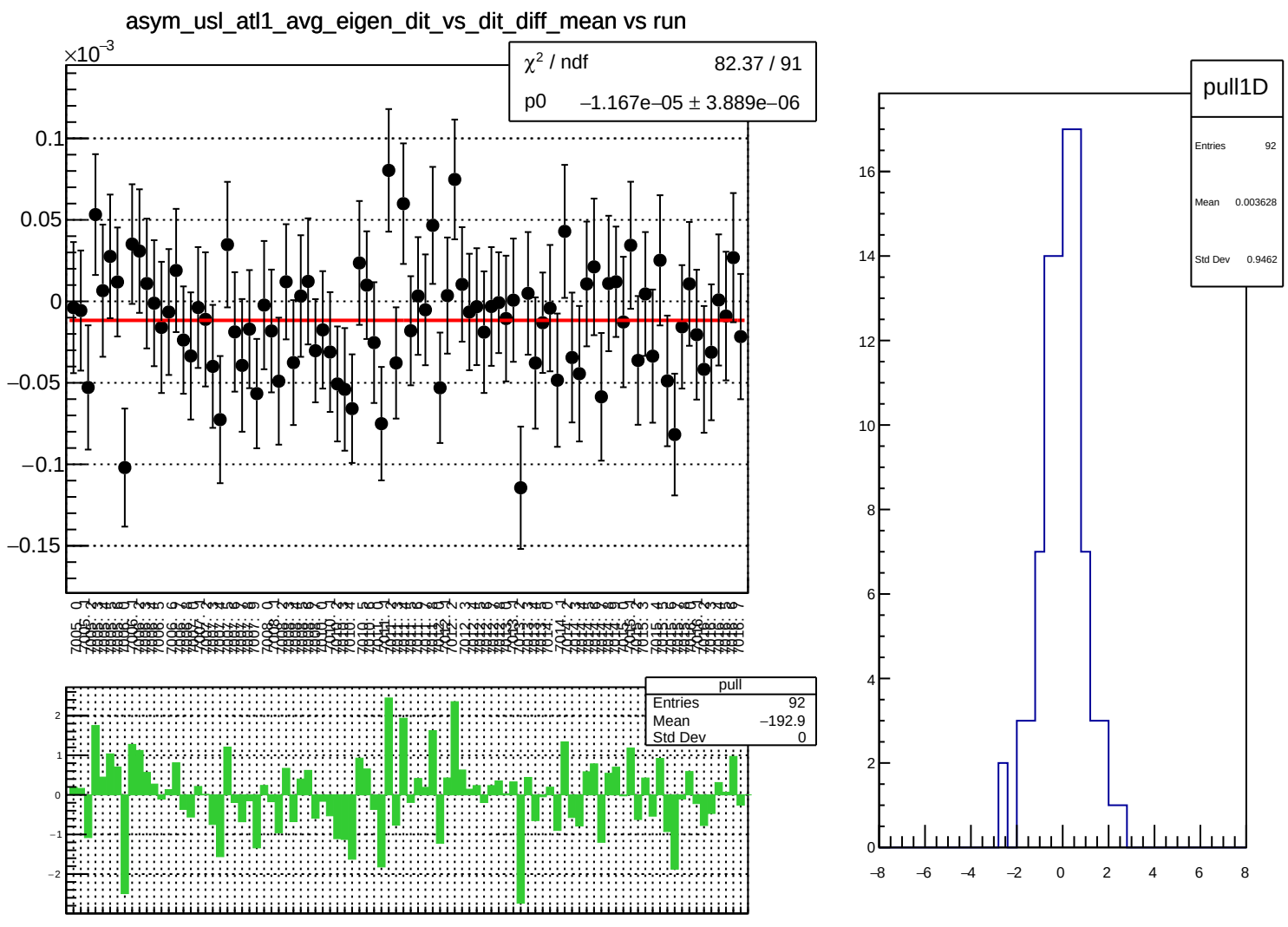

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.52 / 91
p0 −0.03161 ± 0.05636
pull
Entries 92
Mean 153.4
Std Dev 0

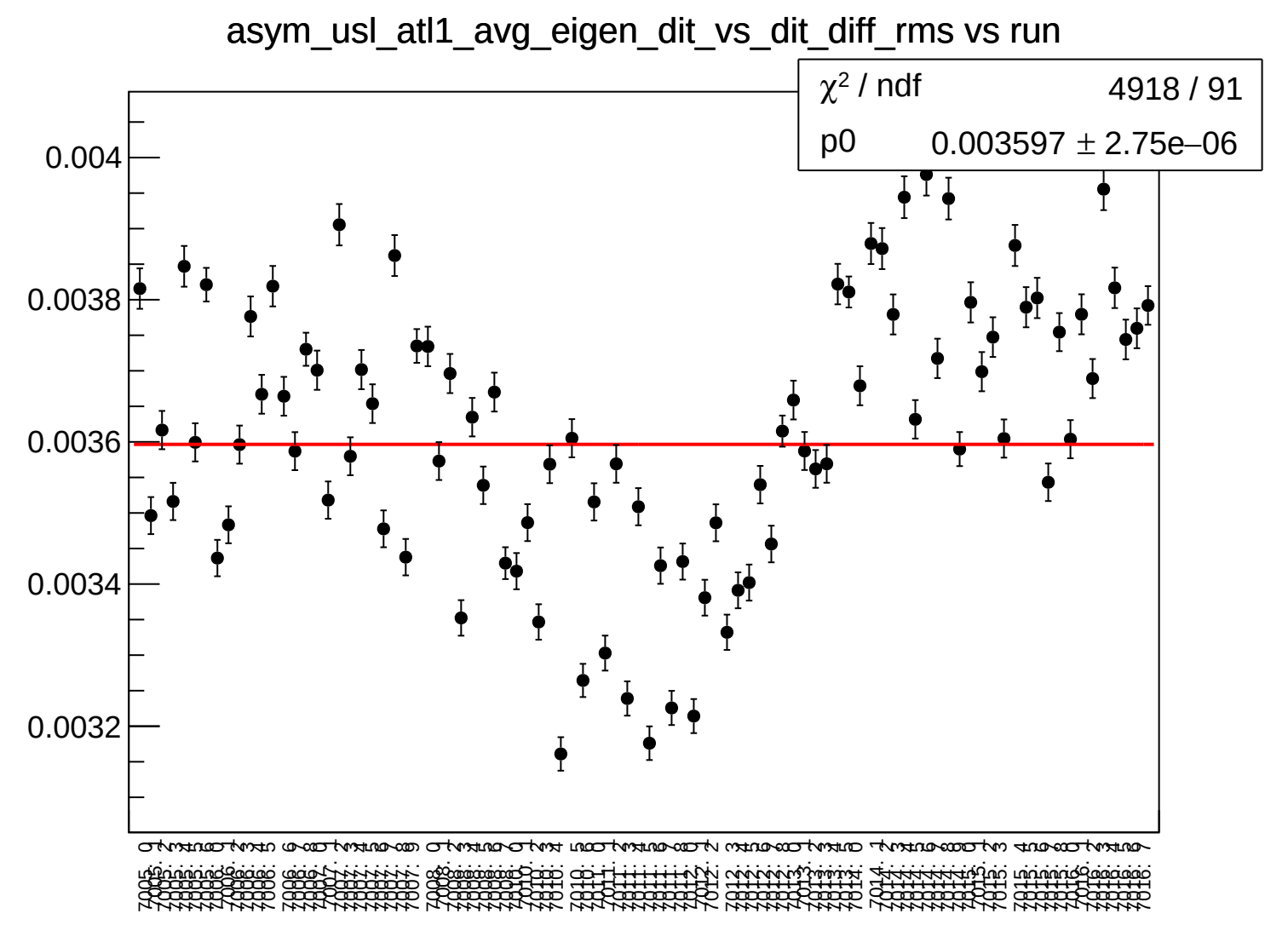

pull1D
Entries 92
Mean 0.01935
Std Dev 1.029

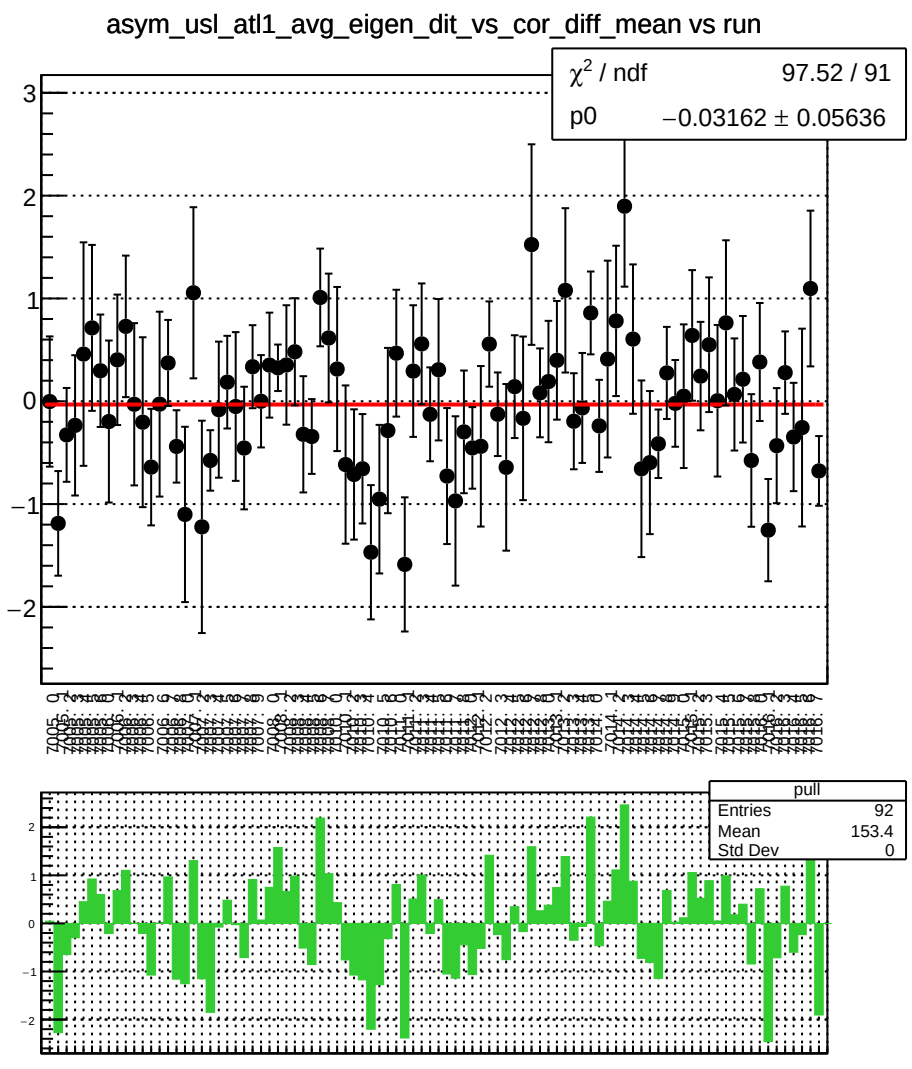

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.586e+05 / 91
p0 49.72 ± 0.03985
110
100
90
80
70
60
50
40
30
20

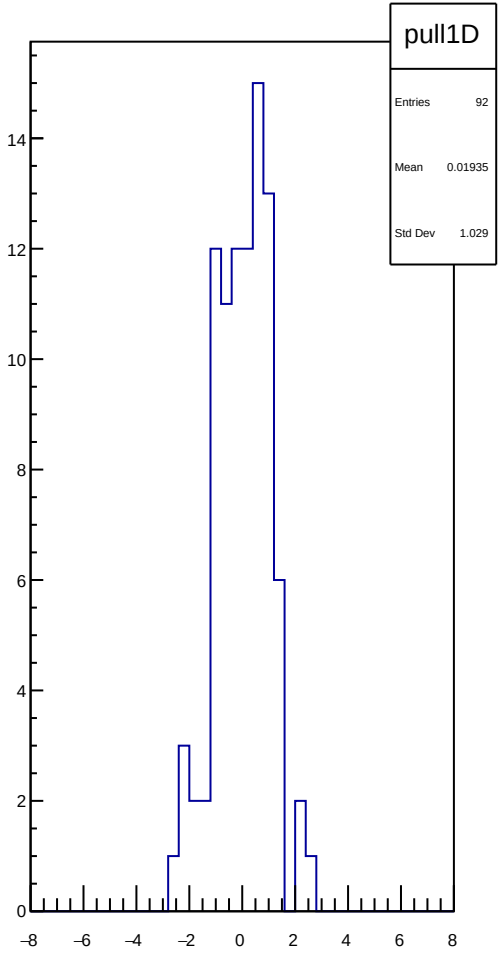

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.52 / 91
p0 −0.03161 ± 0.05636
pull
Entries 92
Mean 153.4
Std Dev 0
pull1D
Entries 92
Mean 0.01935
Std Dev 1.029

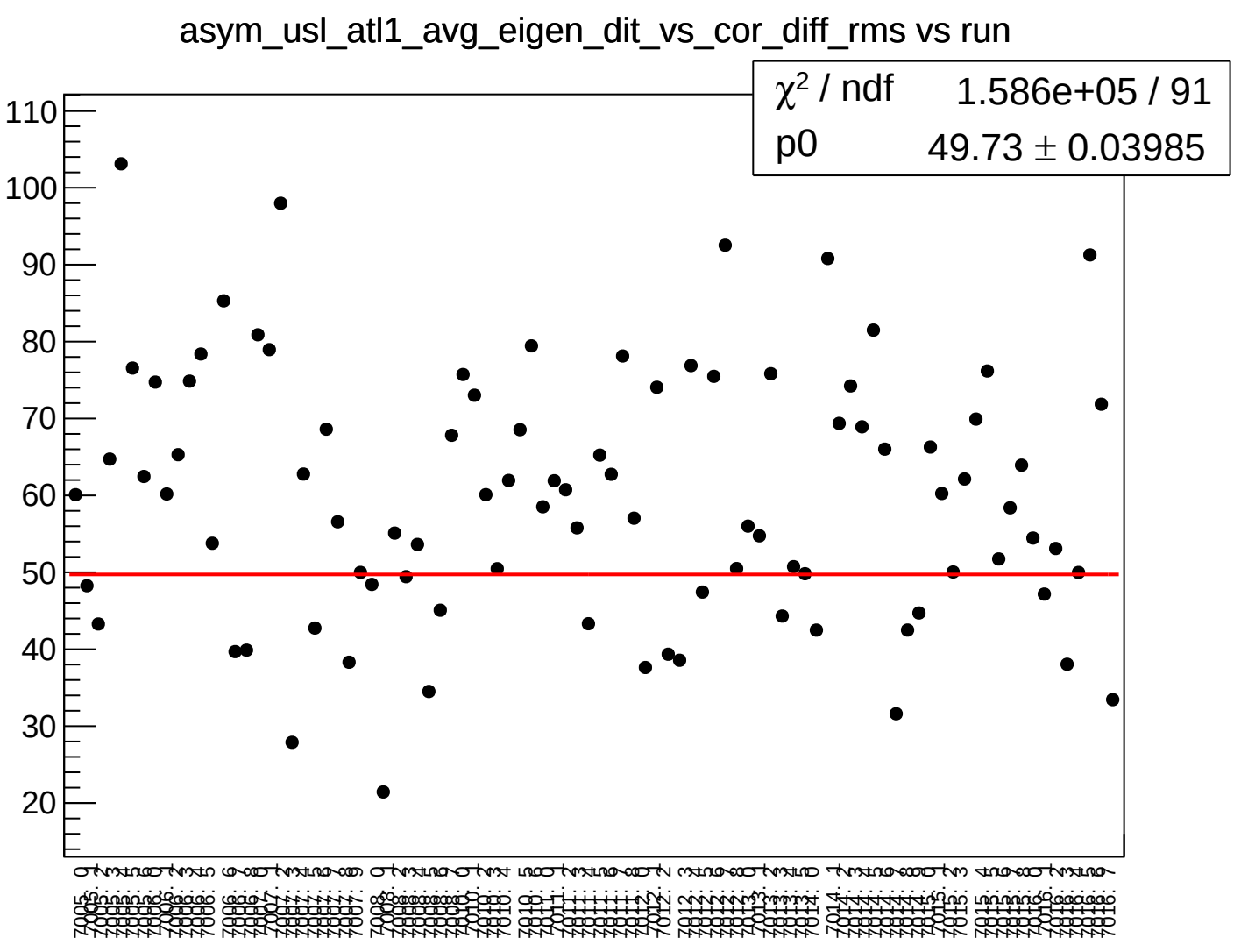

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.586e+05 / 91
p0 49.72 ± 0.03985
110
100
90
80
70
60
50
40
30
20

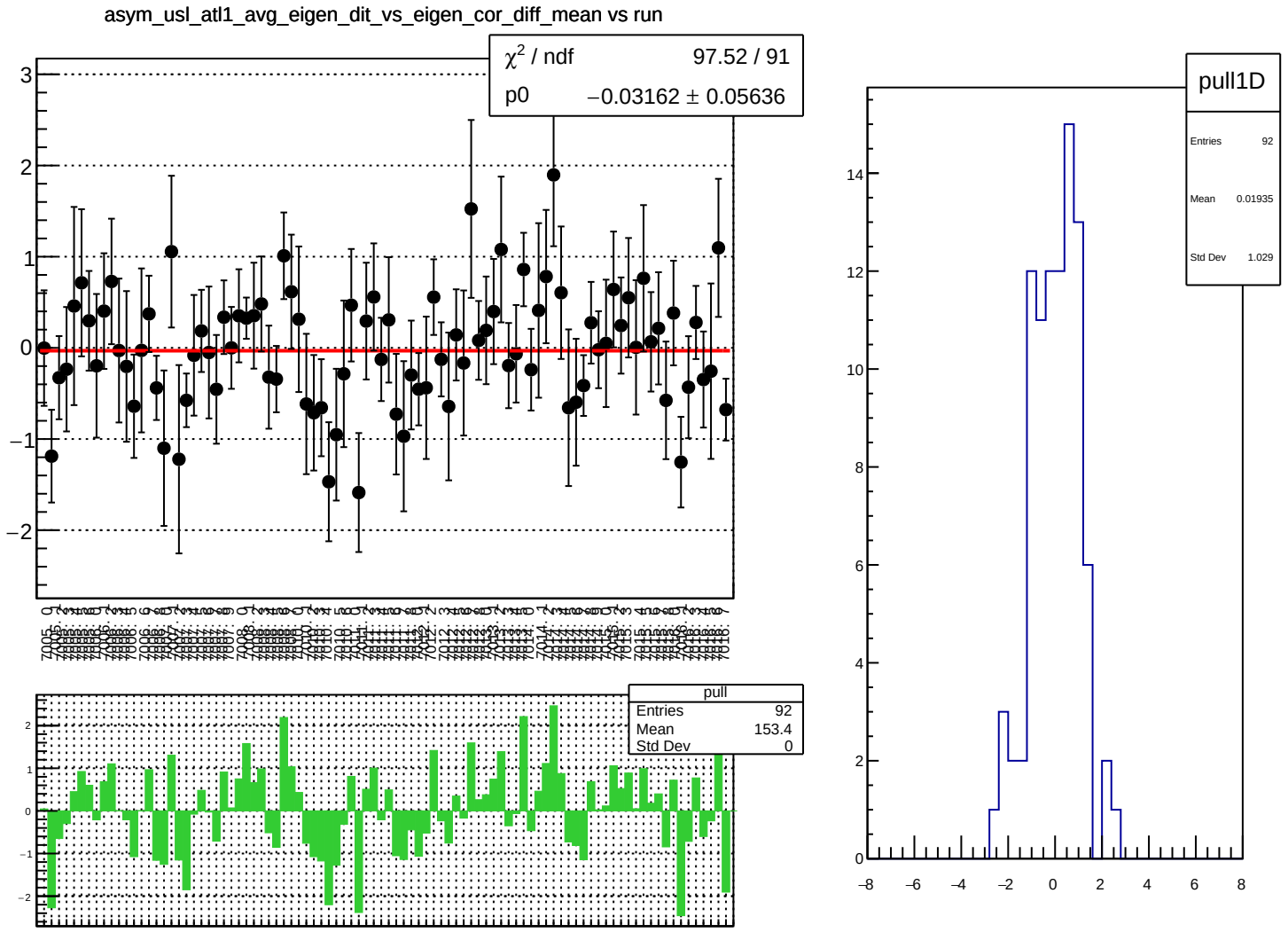

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.37 / 91
p0 −1.167e−05 ± 3.889e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −192.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.003628
Std Dev 0.9462
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

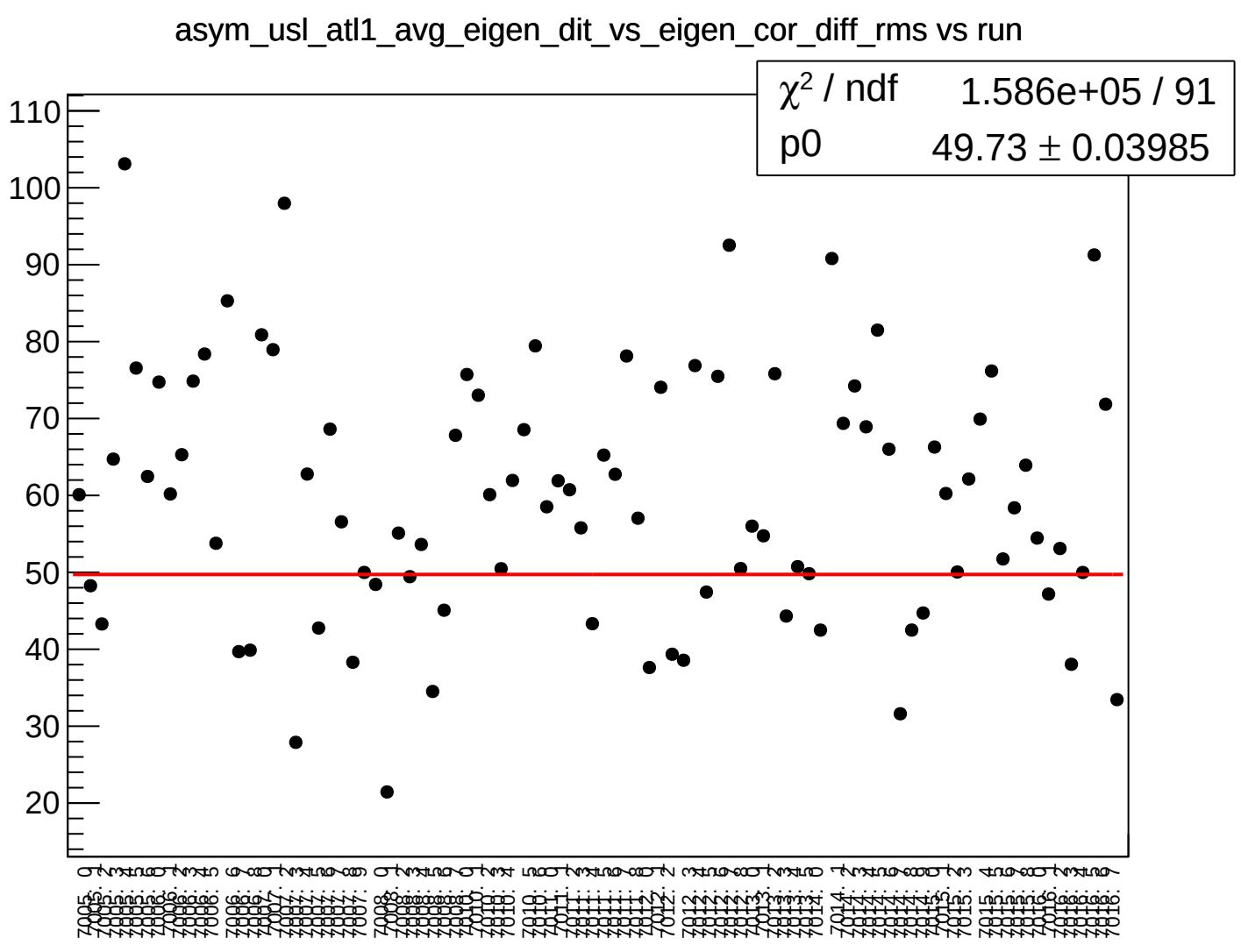

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4918 / 91
p0 0.003597 ± 2.75e−06
0.004
0.0038
0.0036
0.0034
0.0032

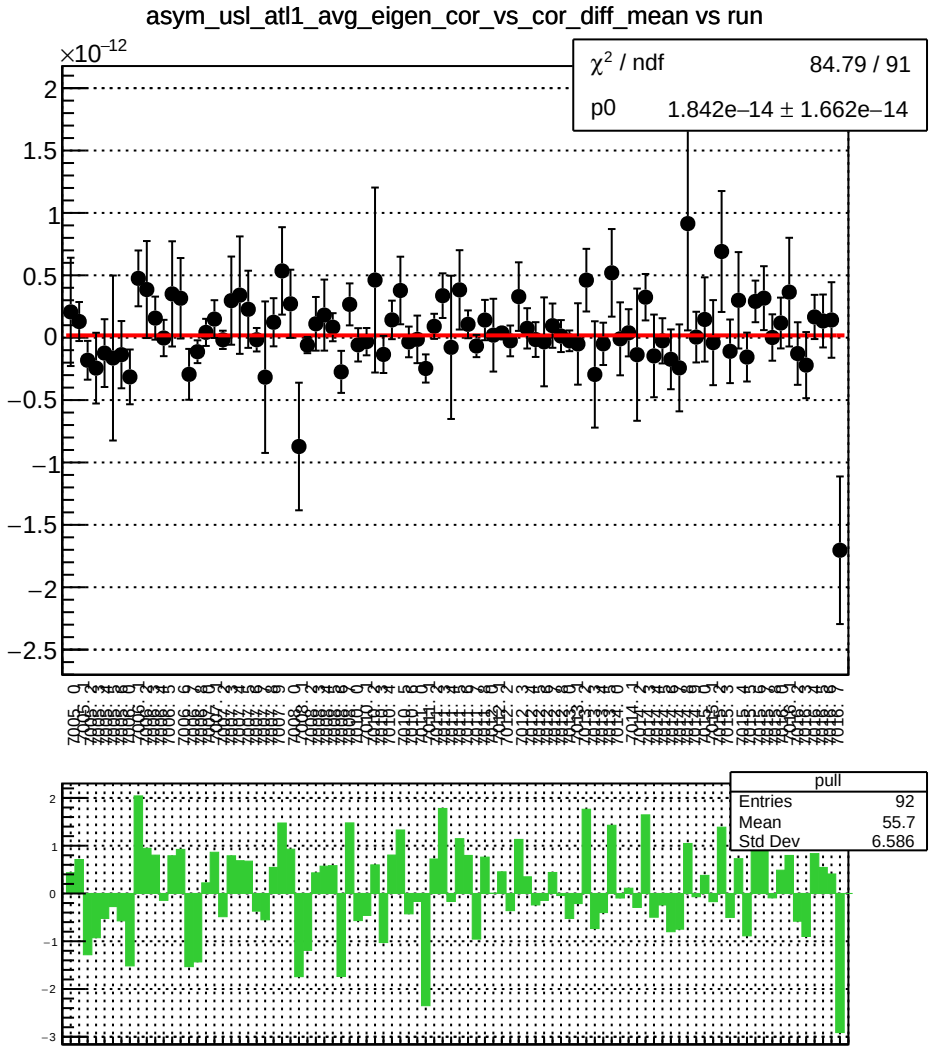

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.52 / 91
p0 −0.03162 ± 0.05636
pull
Entries 92
Mean 153.4
Std Dev 0

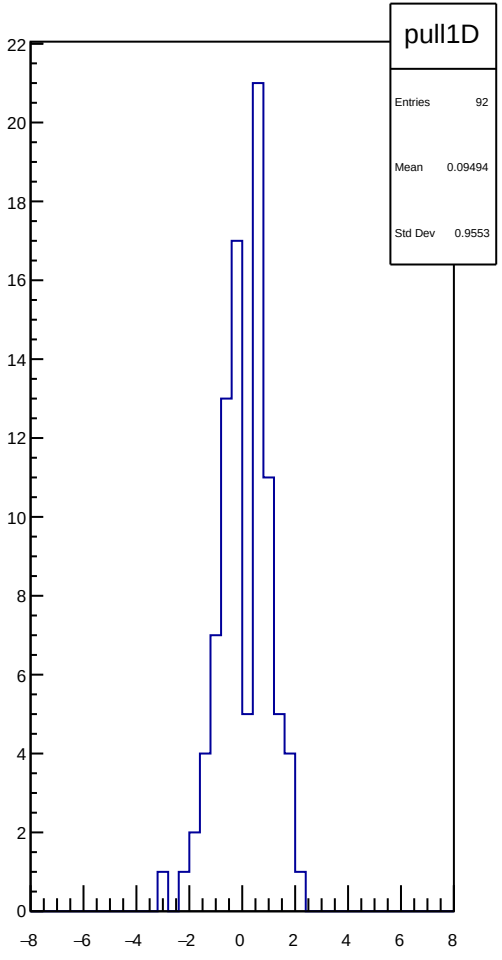

pull1D
Entries 92
Mean 0.01935
Std Dev 1.029

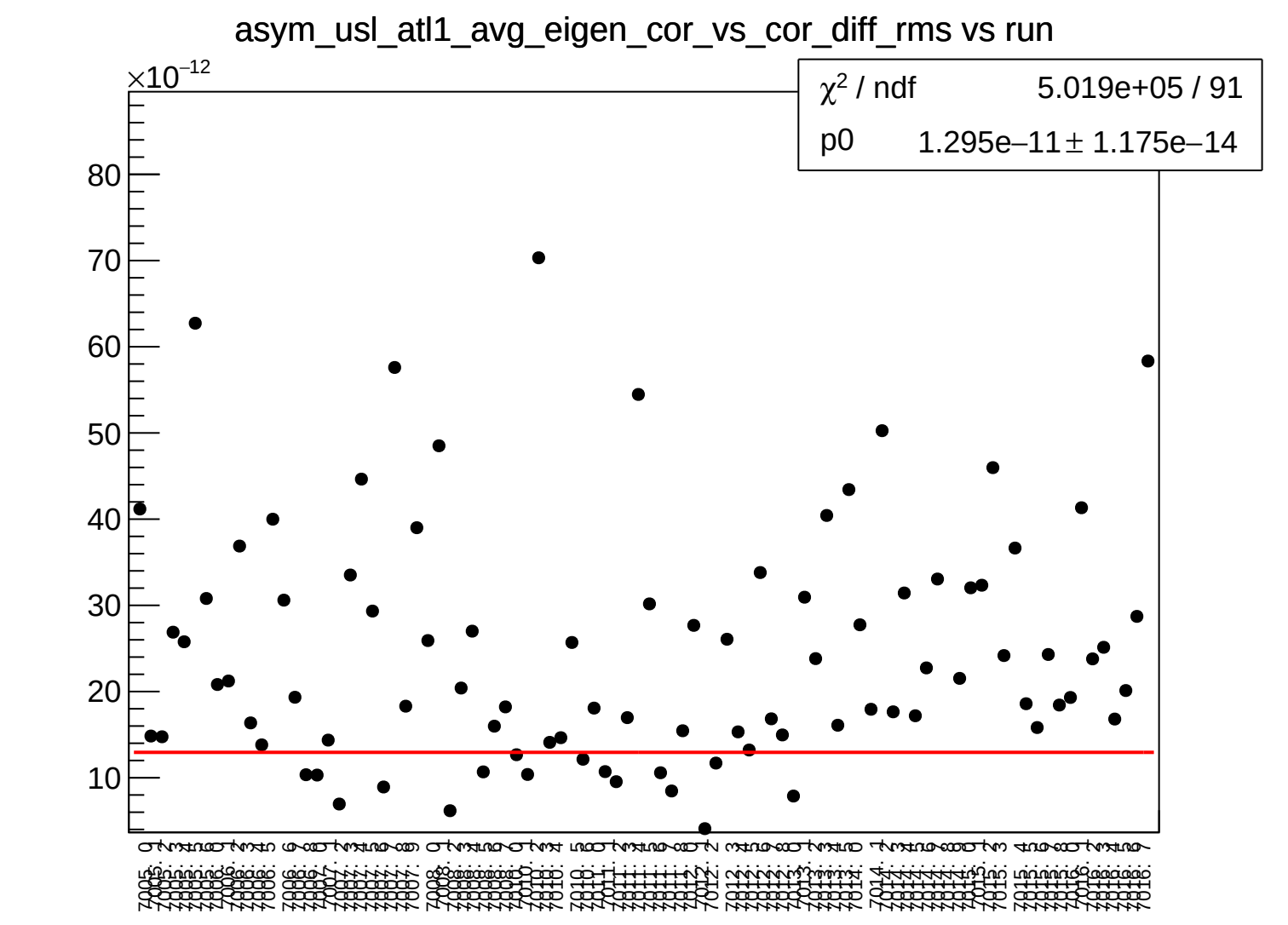

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.586e+05 / 91
p0 49.73 ± 0.03985
110
100
90
80
70
60
50
40
30
20

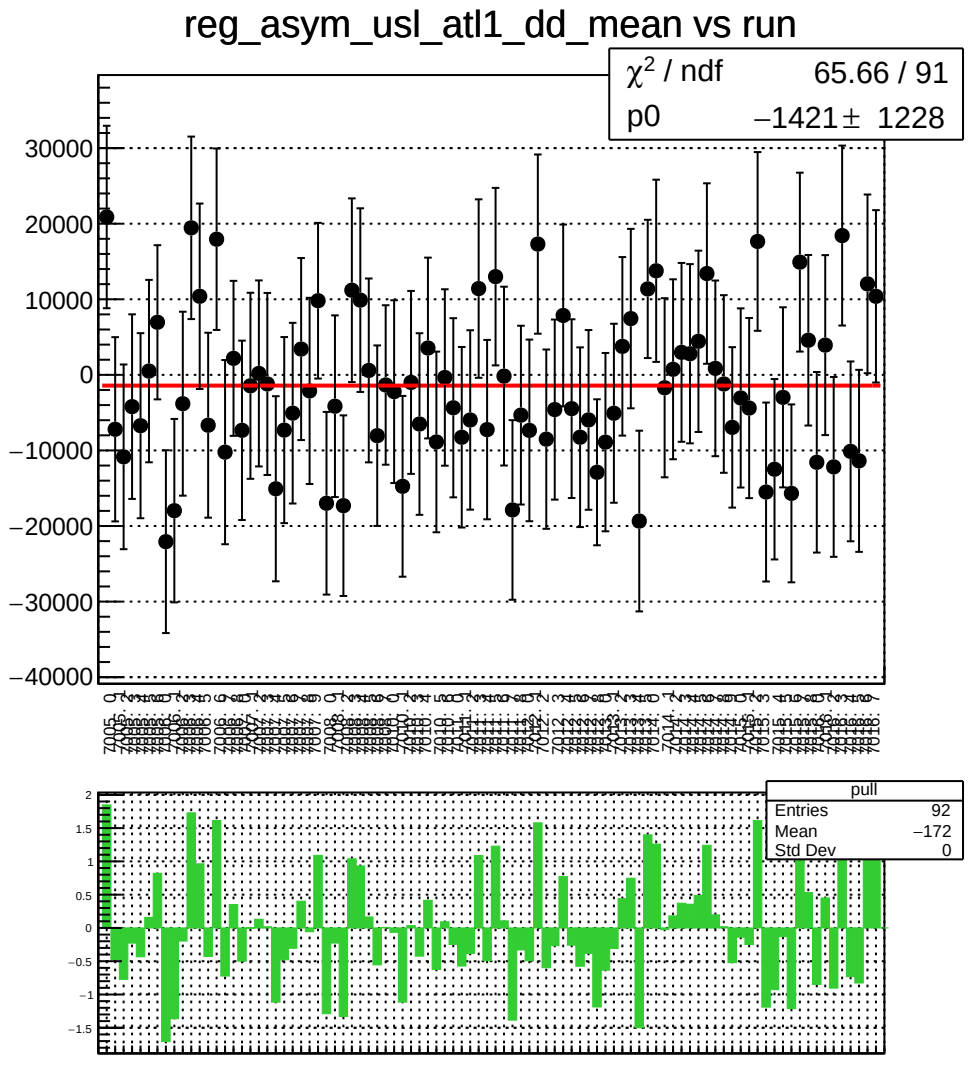

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.52 / 91
p0 −0.03162 ± 0.05636
pull
Entries 92
Mean 153.4
Std Dev 0
pull1D
Entries 92
Mean 0.01935
Std Dev 1.029

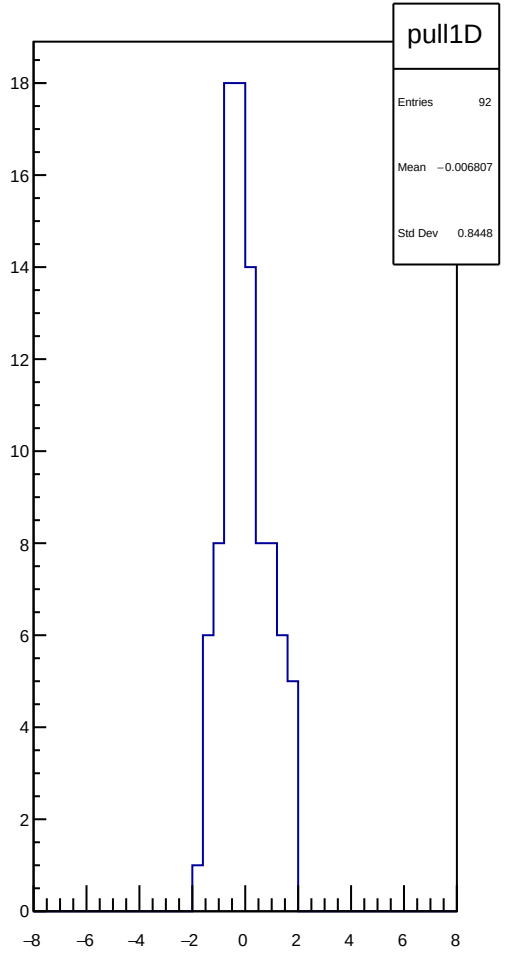

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.586e+05 / 91
p0 49.73 ± 0.03985
110
100
90
80
70
60
50
40
30
20

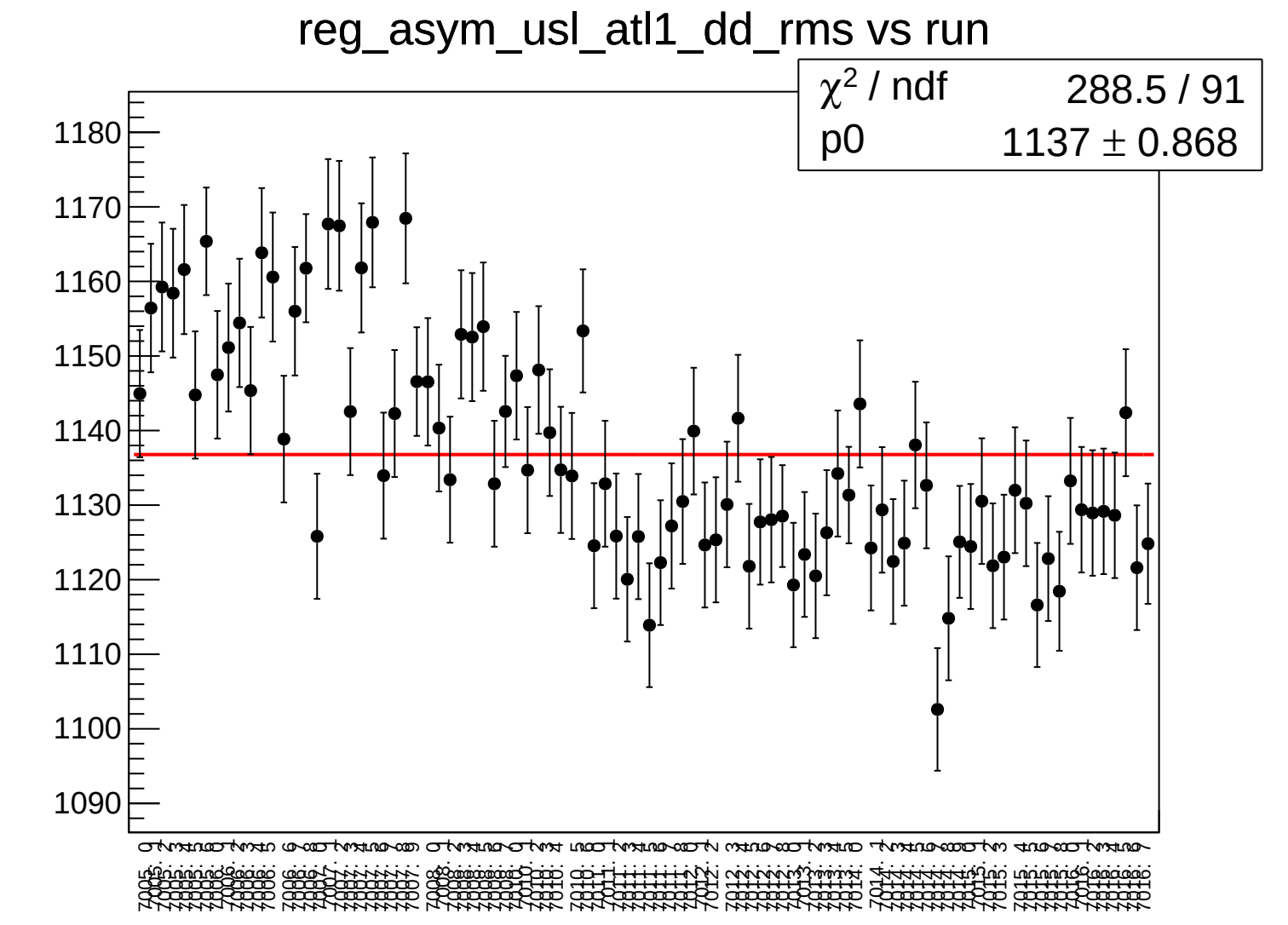

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.79 / 91
p0 1.842e−14 ± 1.662e−14
pull
Entries 92
Mean 55.7
Std Dev 6.586

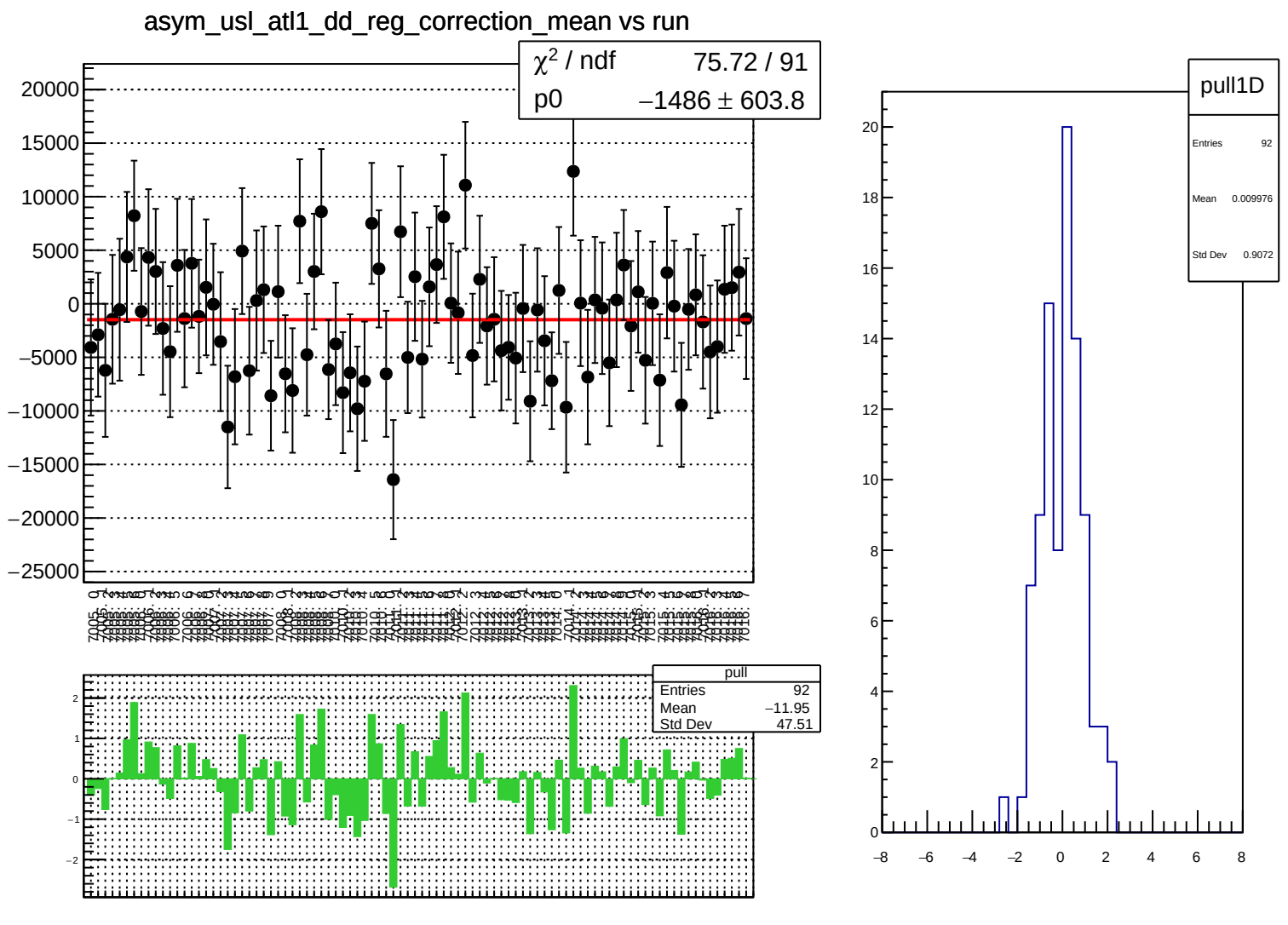

pull1D
Entries 92
Mean 0.09494
Std Dev 0.9553

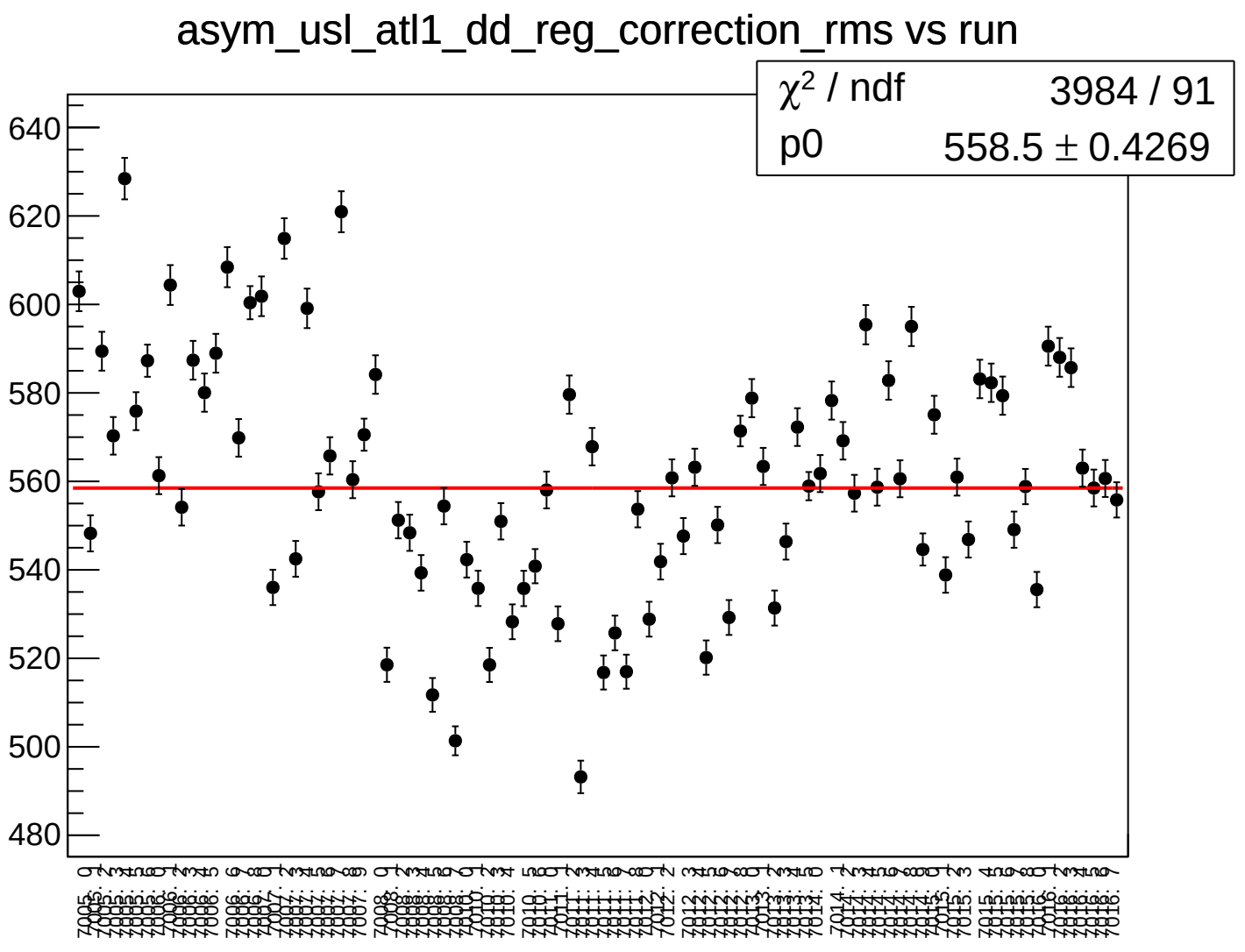

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.019e+05 / 91
p0 1.295e−11 ± 1.175e−14
80
70
60
50
40
30
20
10

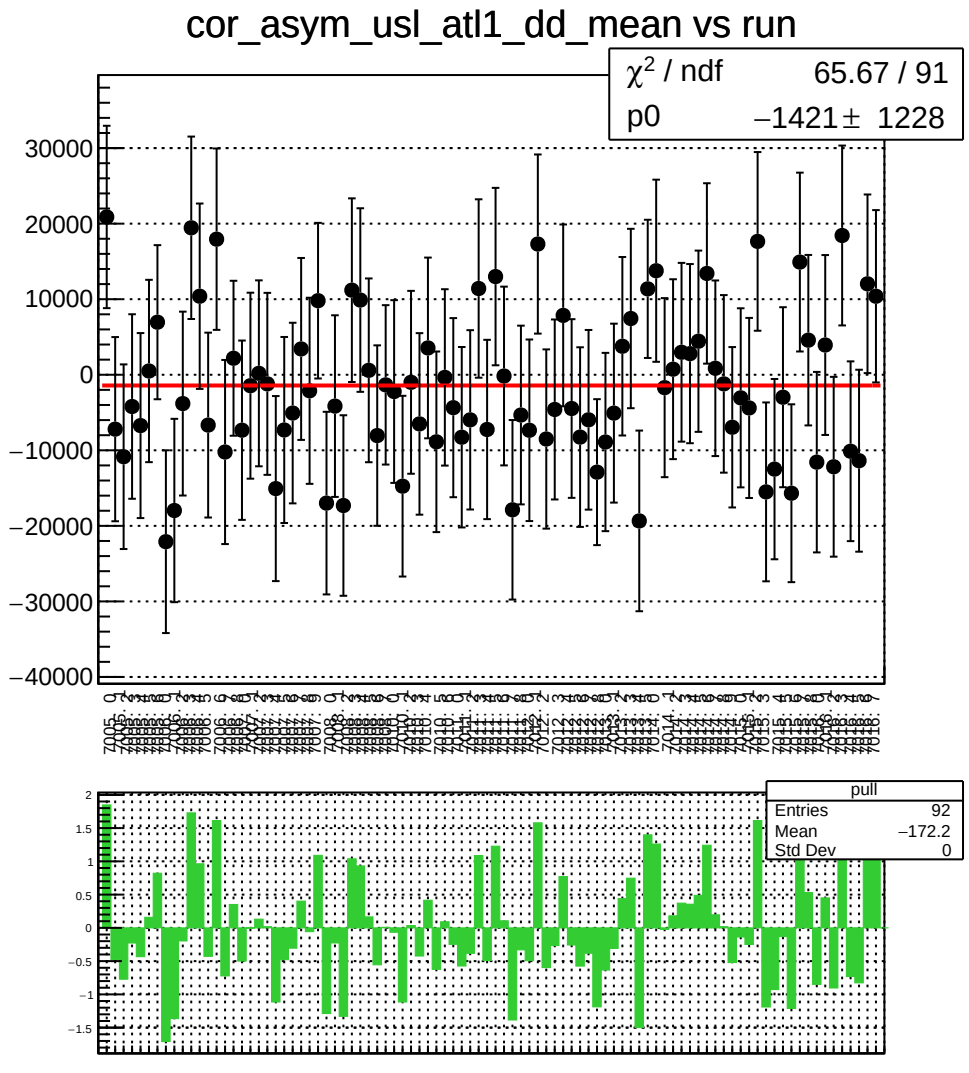

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 65.66 / 91
p0 −1421 ± 1228
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −172
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

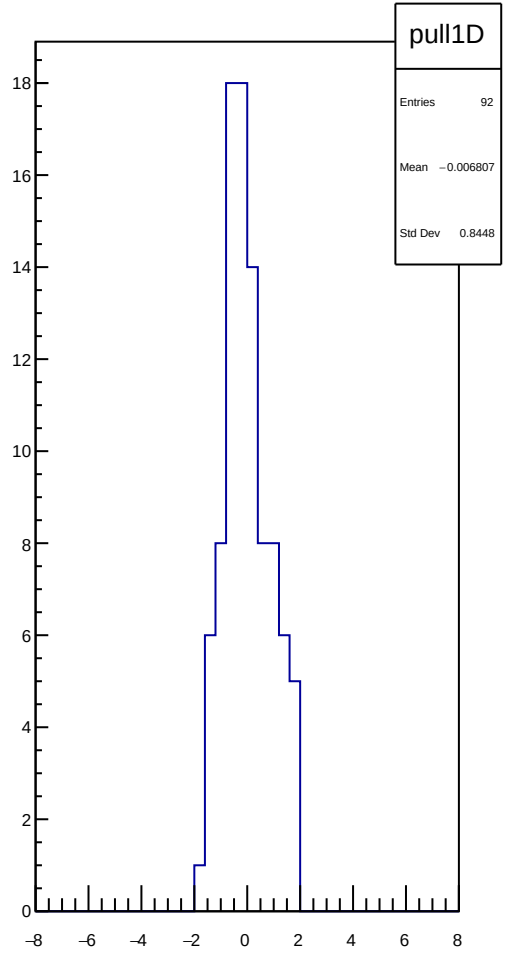

pull1D
Entries 92
Mean −0.006807
Std Dev 0.8448
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

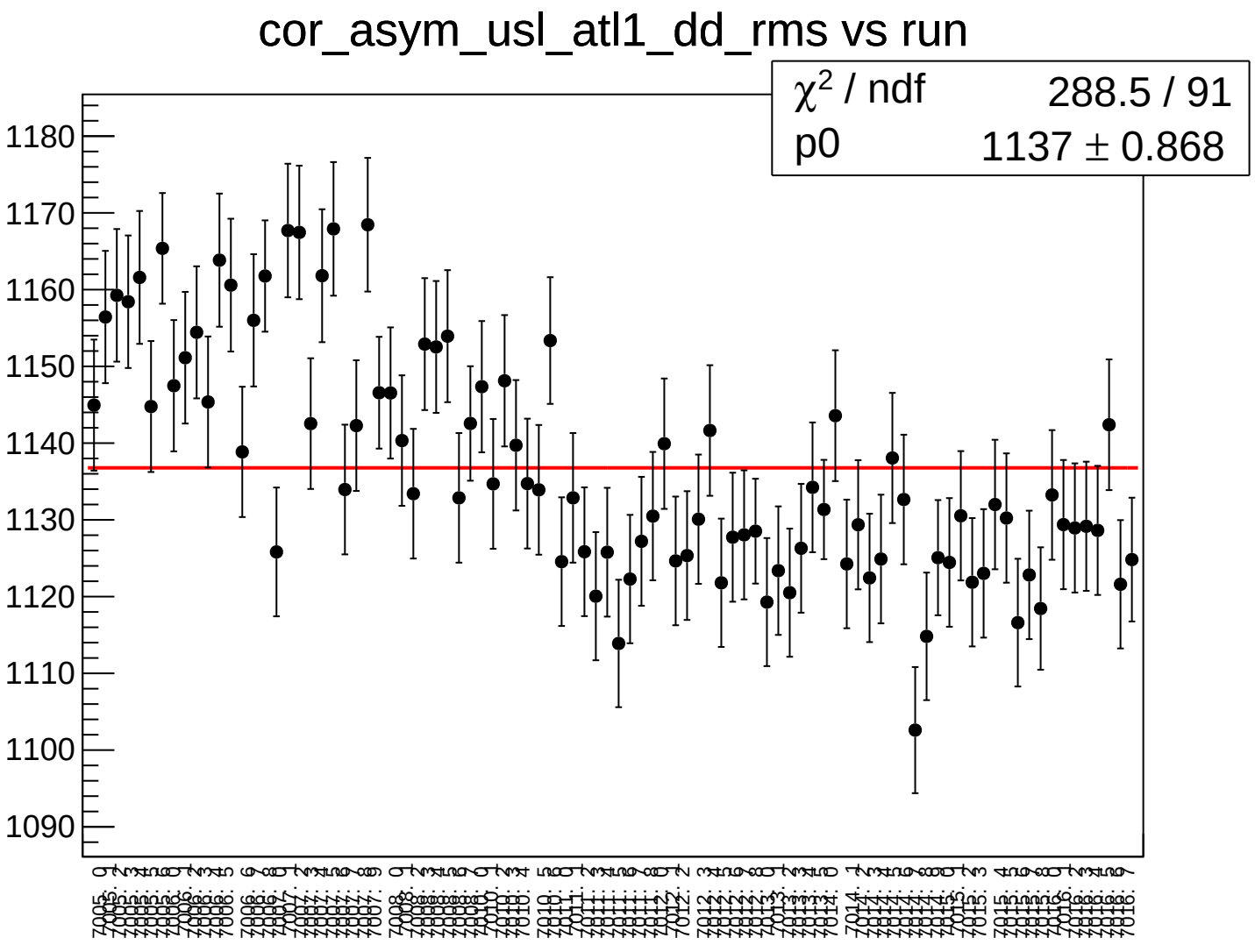

reg_asym_usl_atl1_dd_rms vs run
$\chi^2$ / ndf 288.5 / 91
p0 1137 ± 0.868
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090

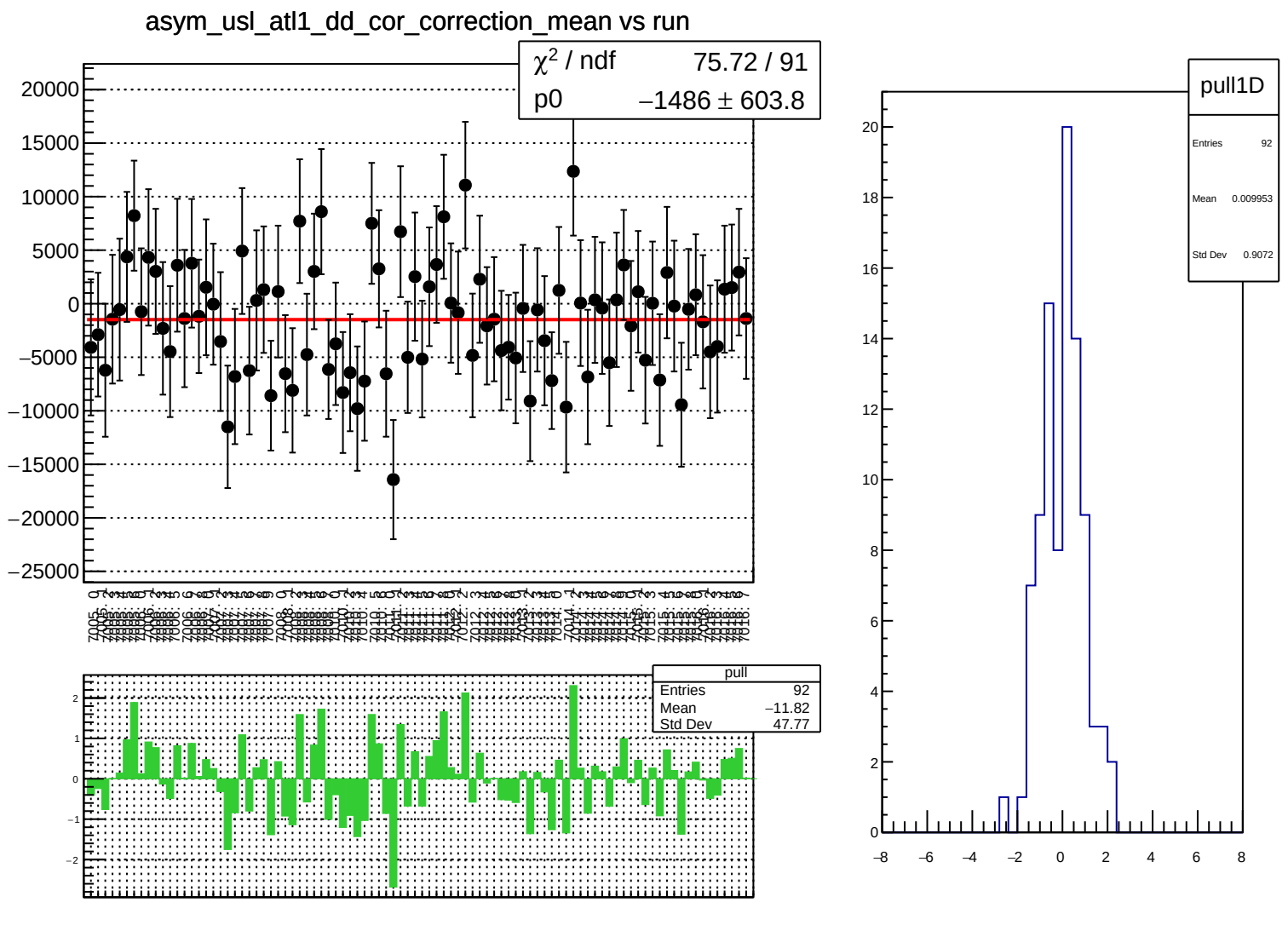

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 75.72 / 91
p0 −1486 ± 603.8
pull
Entries 92
Mean −11.95
Std Dev 47.51
pull1D
Entries 92
Mean 0.009976
Std Dev 0.9072

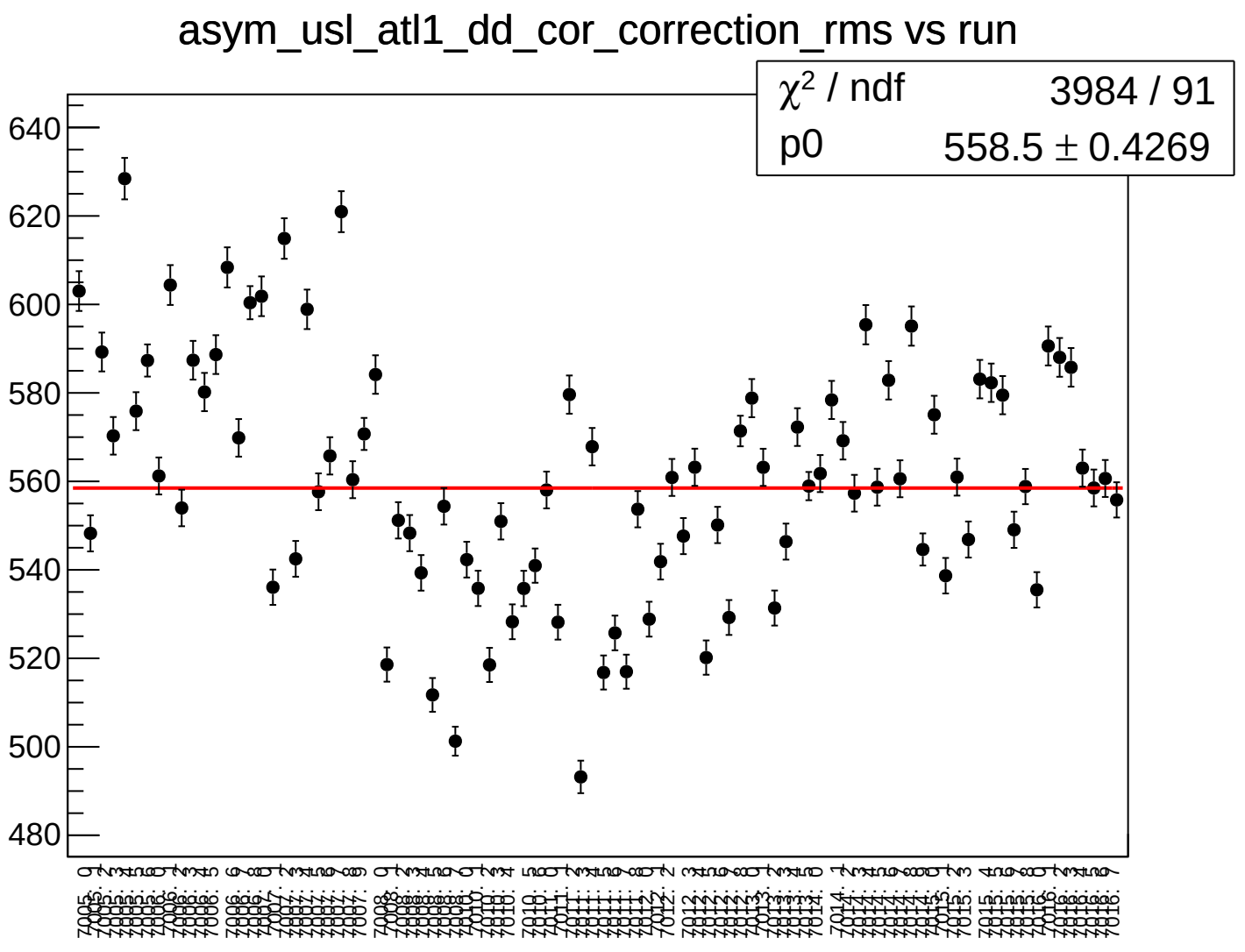

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 3984 / 91
p0 558.5 ± 0.4269
640
620
600
580
560
540
520
500
480

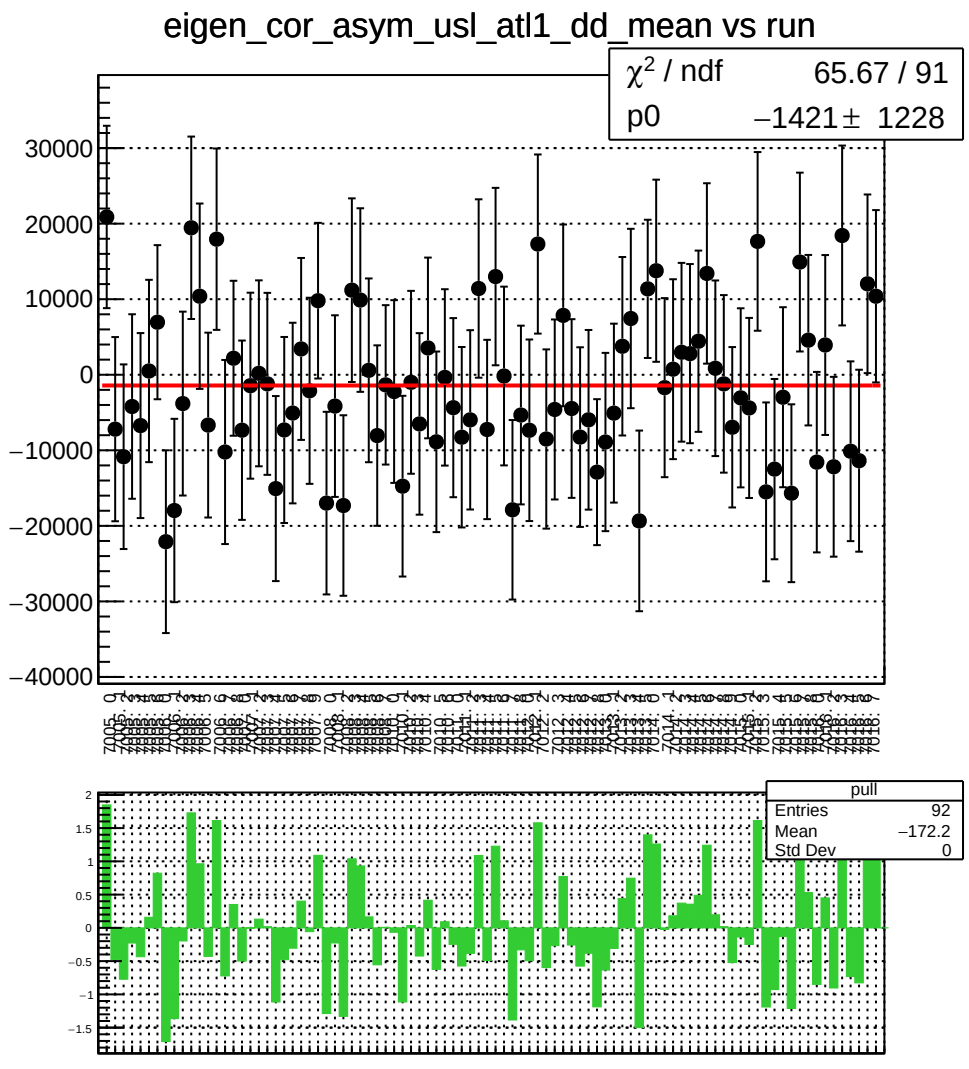

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 65.67 / 91
p0 −1421 ± 1228
pull
Entries 92
Mean −172.2
Std Dev 0

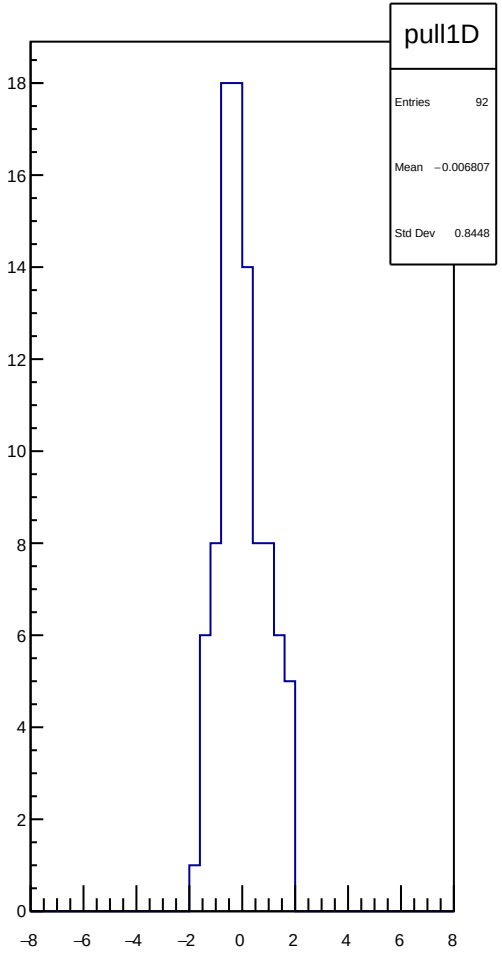

pull1D
Entries 92
Mean −0.006807
Std Dev 0.8448

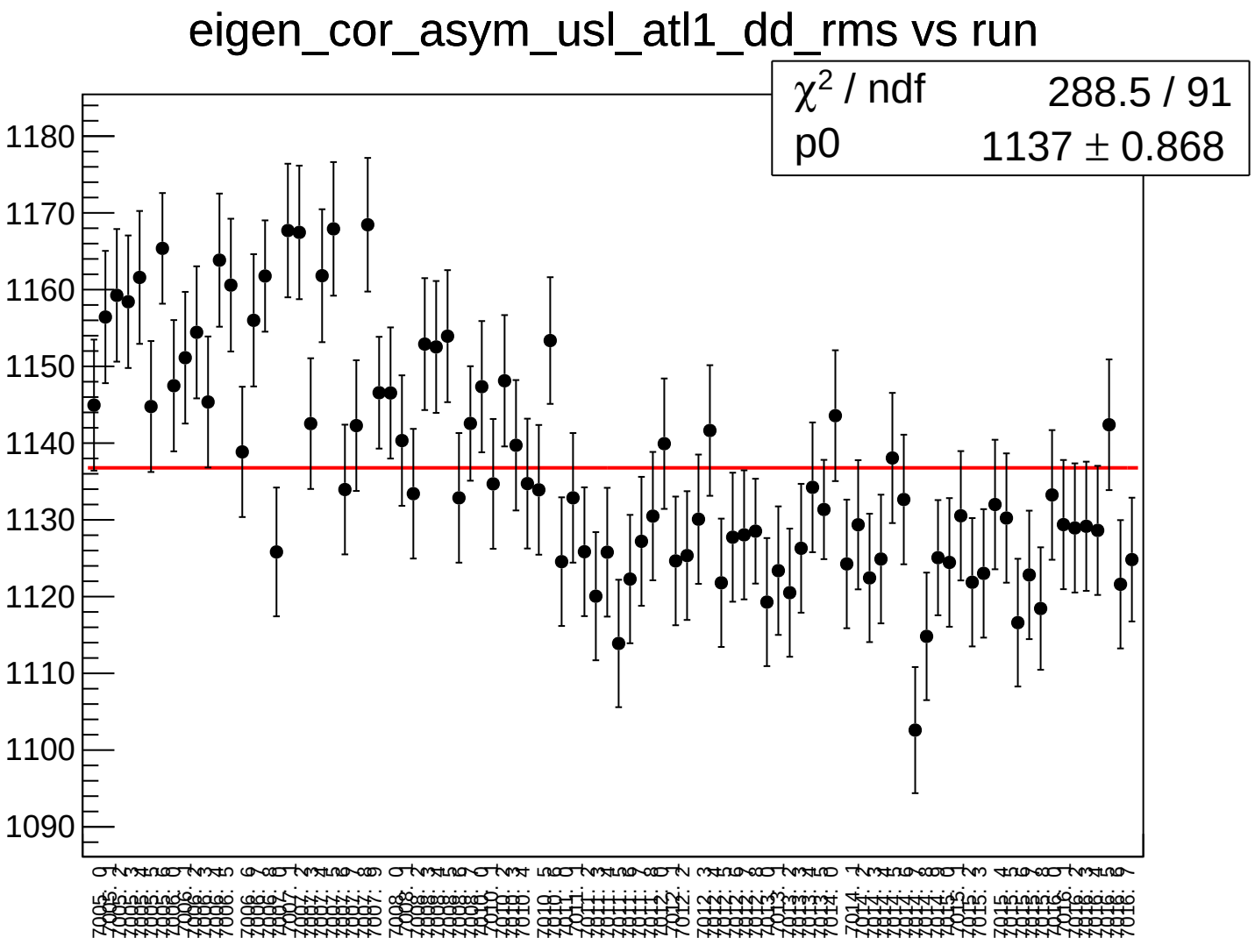

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 288.5 / 91
p0 1137 ± 0.868
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090

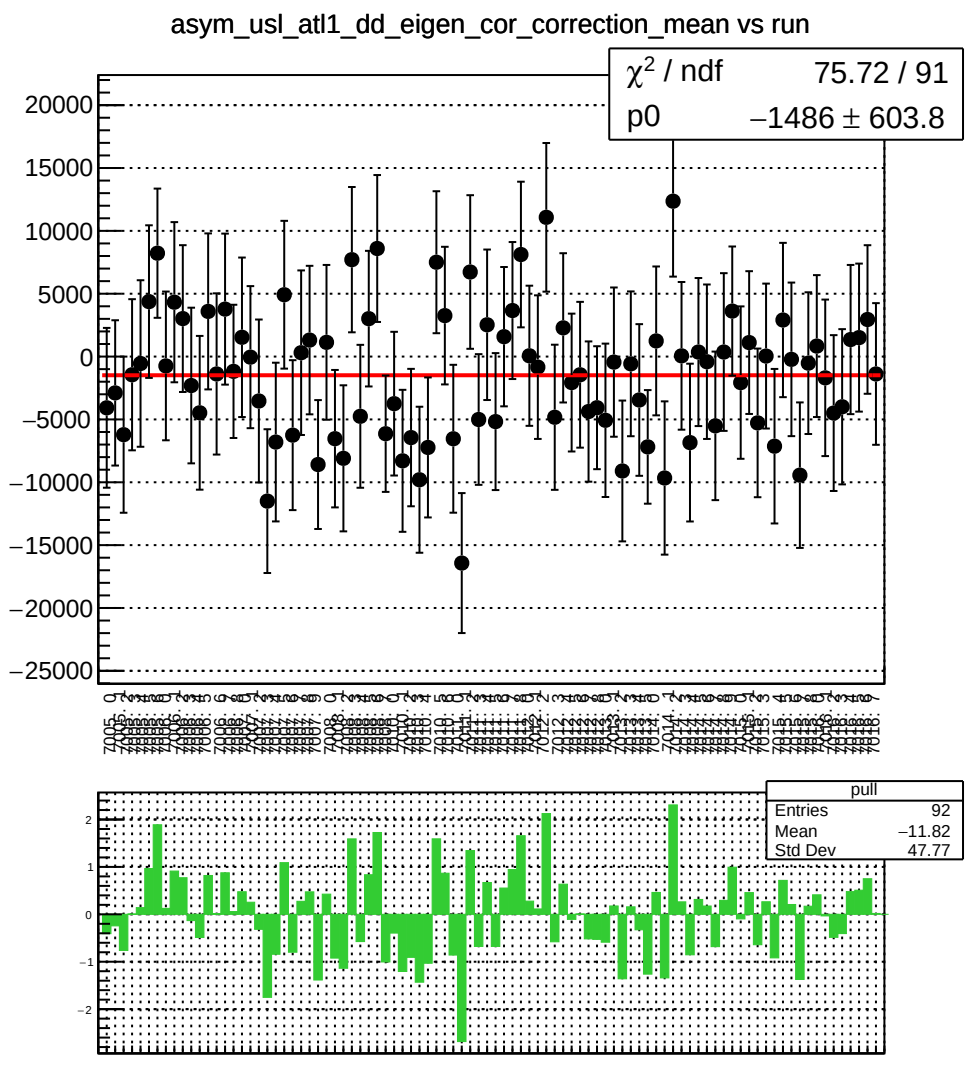

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 75.72 / 91
p0 −1486 ± 603.8
pull
Entries 92
Mean −11.82
Std Dev 47.77
pull1D
Entries 92
Mean 0.009953
Std Dev 0.9072

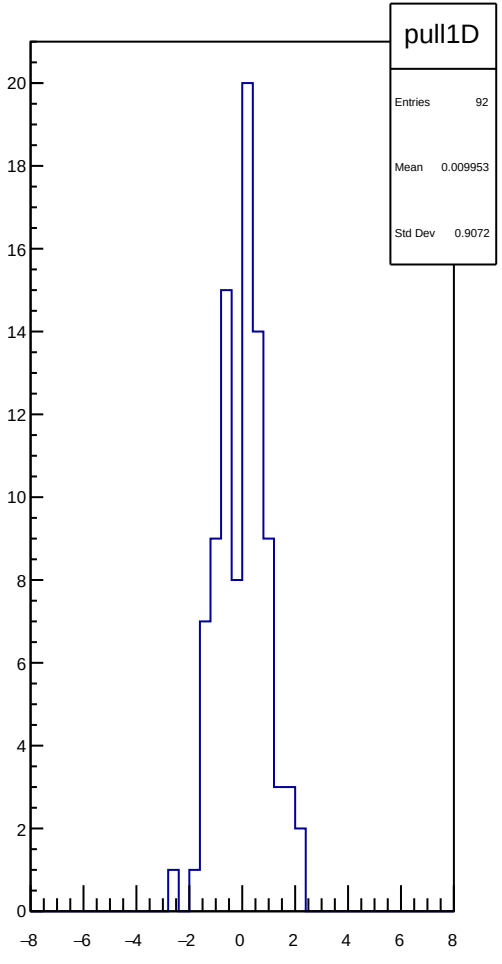

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 3984 / 91
p0 558.5 ± 0.4269
640
620
600
580
560
540
520
500
480

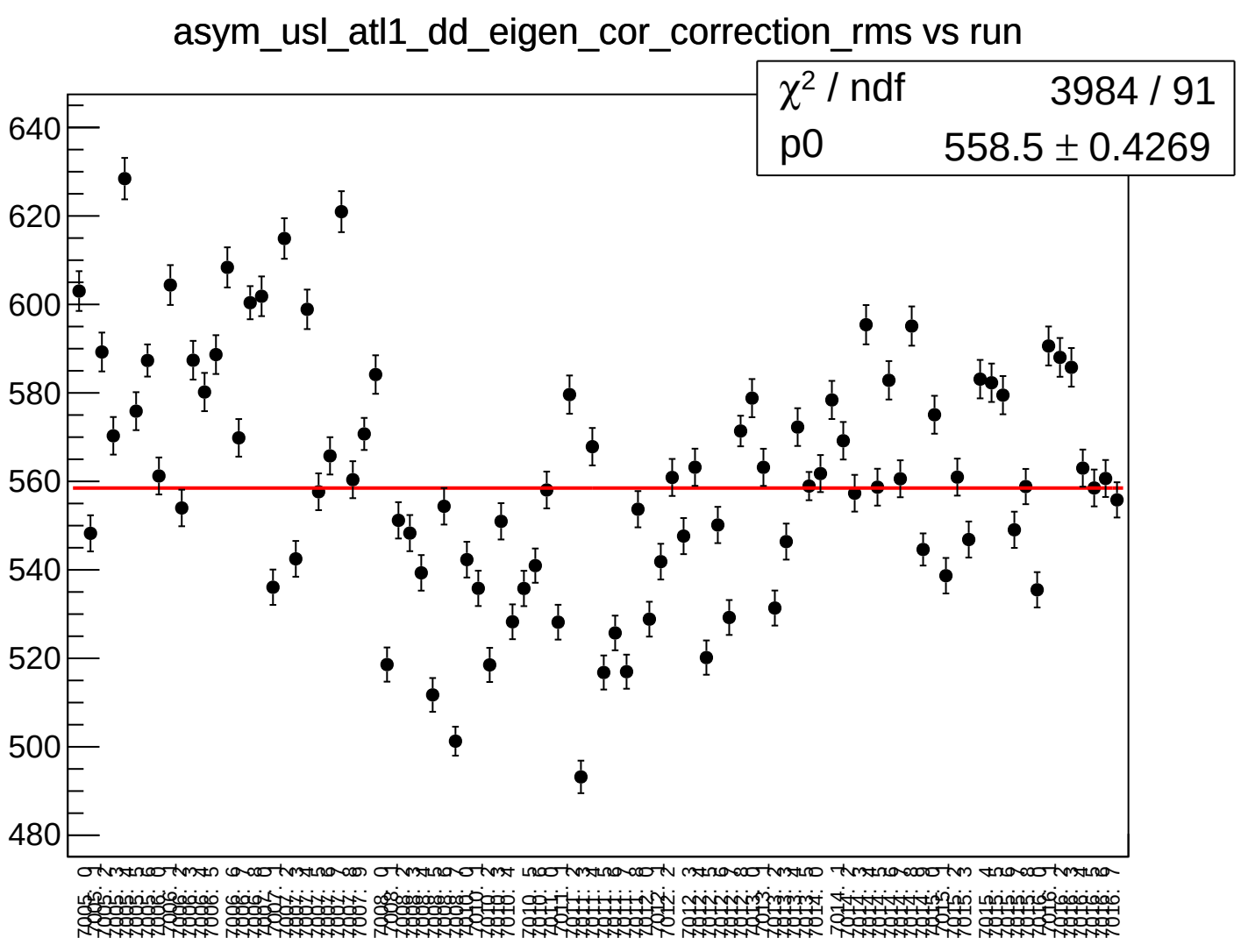

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 65.67 / 91
p0 −1421 ± 1228
pull
Entries 92
Mean −172.2
Std Dev 0

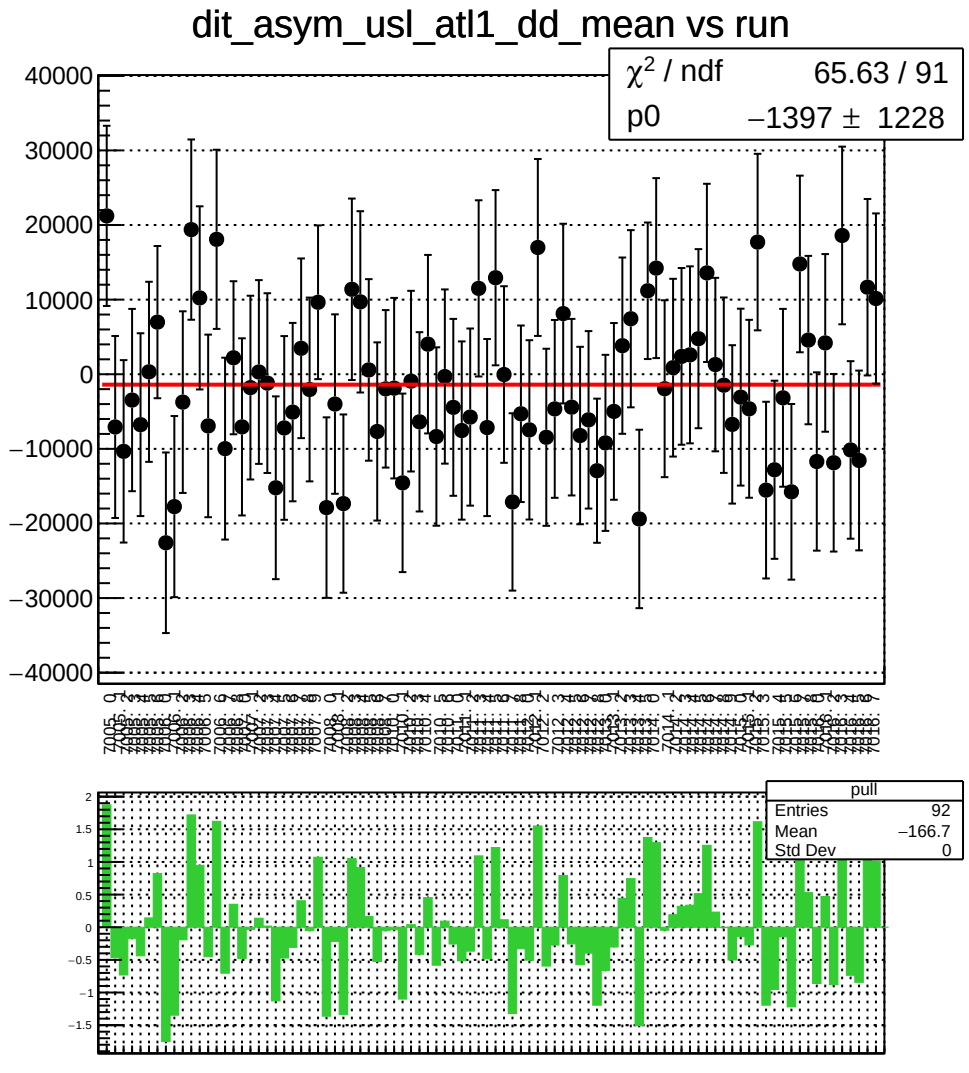

pull1D
Entries 92
Mean −0.006807
Std Dev 0.8448

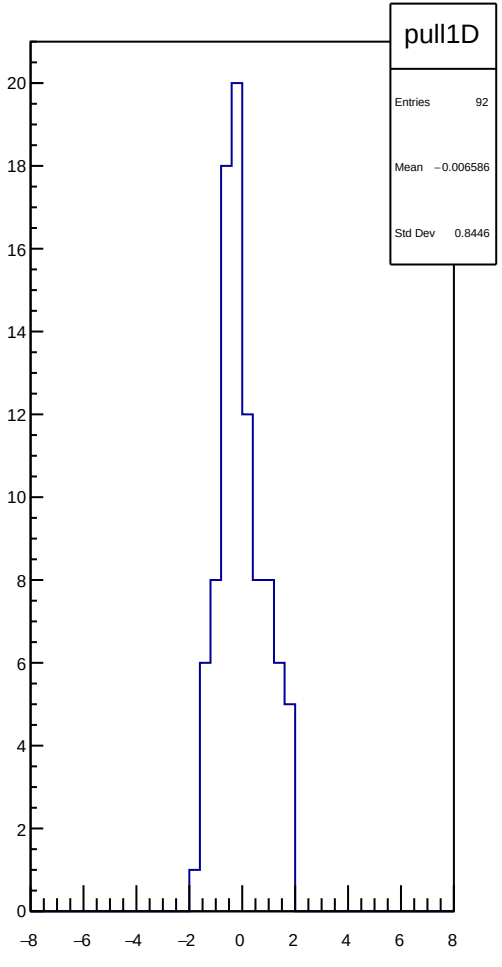

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 288.5 / 91
p0 1137 ± 0.868
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090

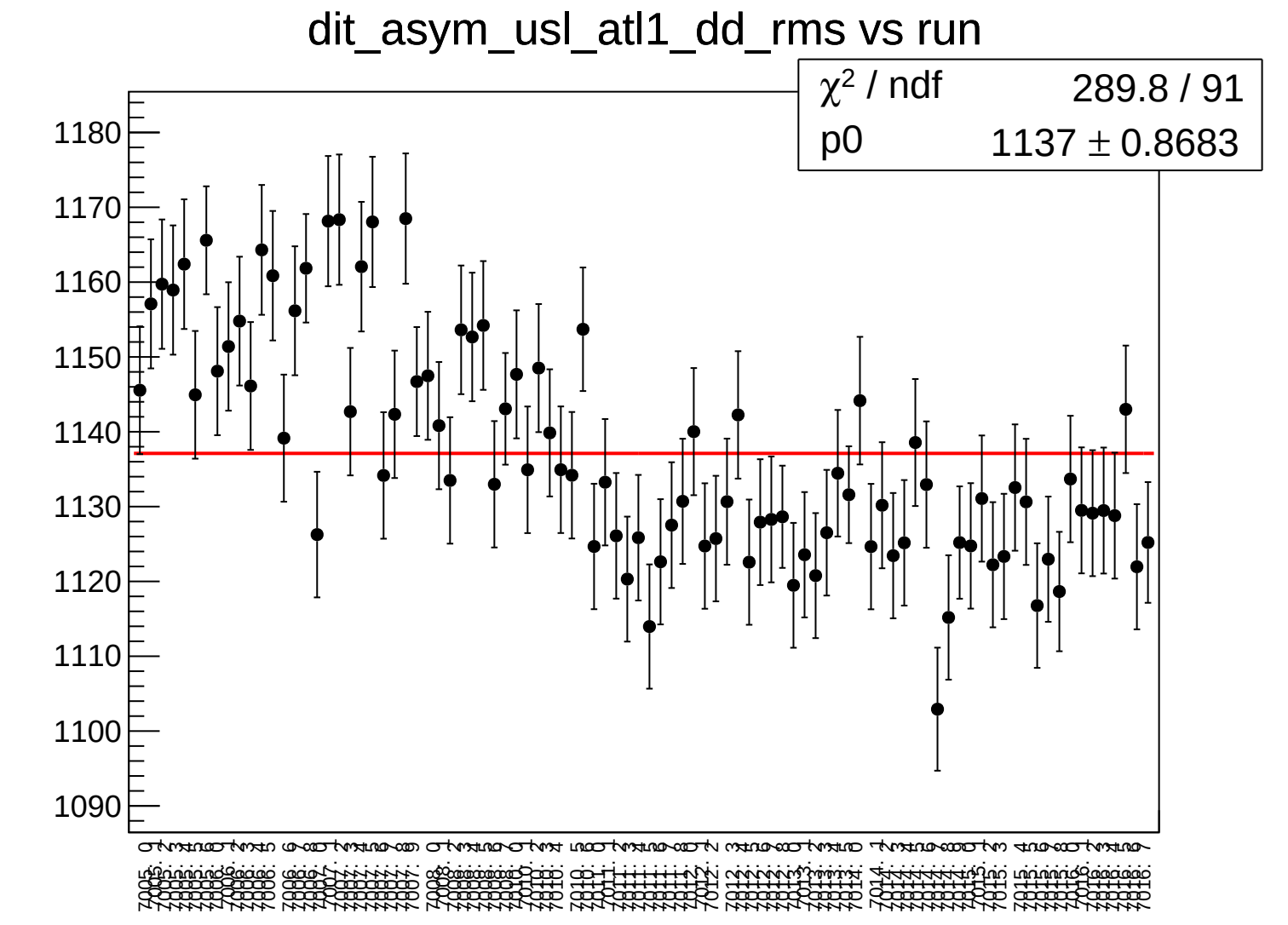

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.72 / 91
p0 −1486 ± 603.8
pull
Entries 92
Mean −11.82
Std Dev 47.77

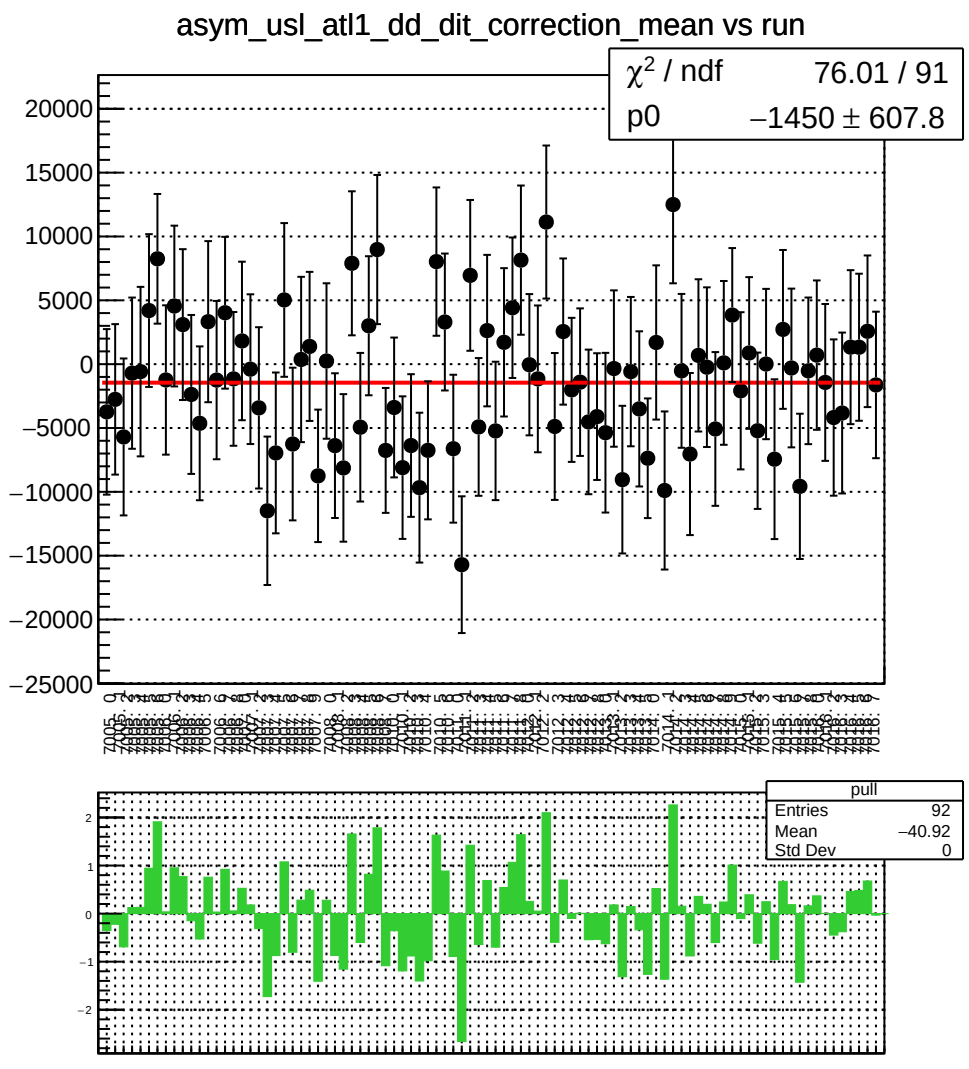

pull1D
Entries 92
Mean 0.009953
Std Dev 0.9072

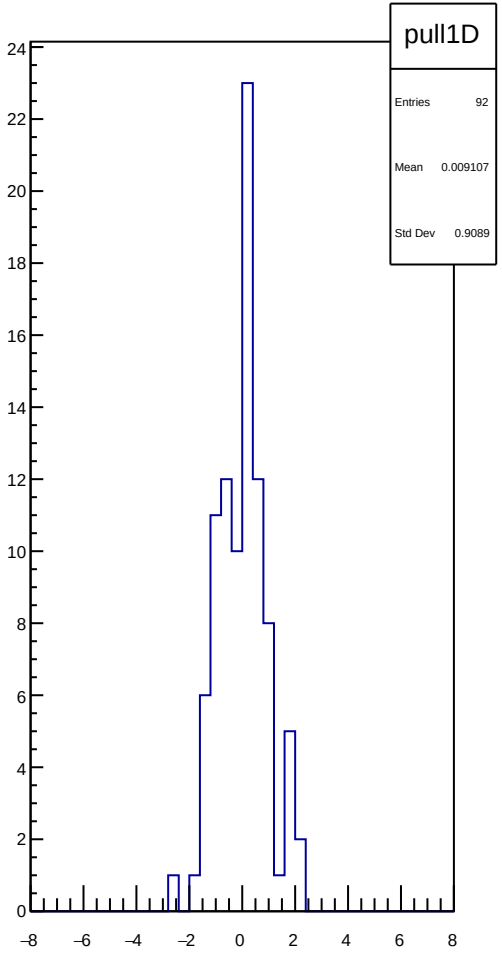

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3984 / 91
p0 558.5 ± 0.4269
640
620
600
580
560
540
520
500
480

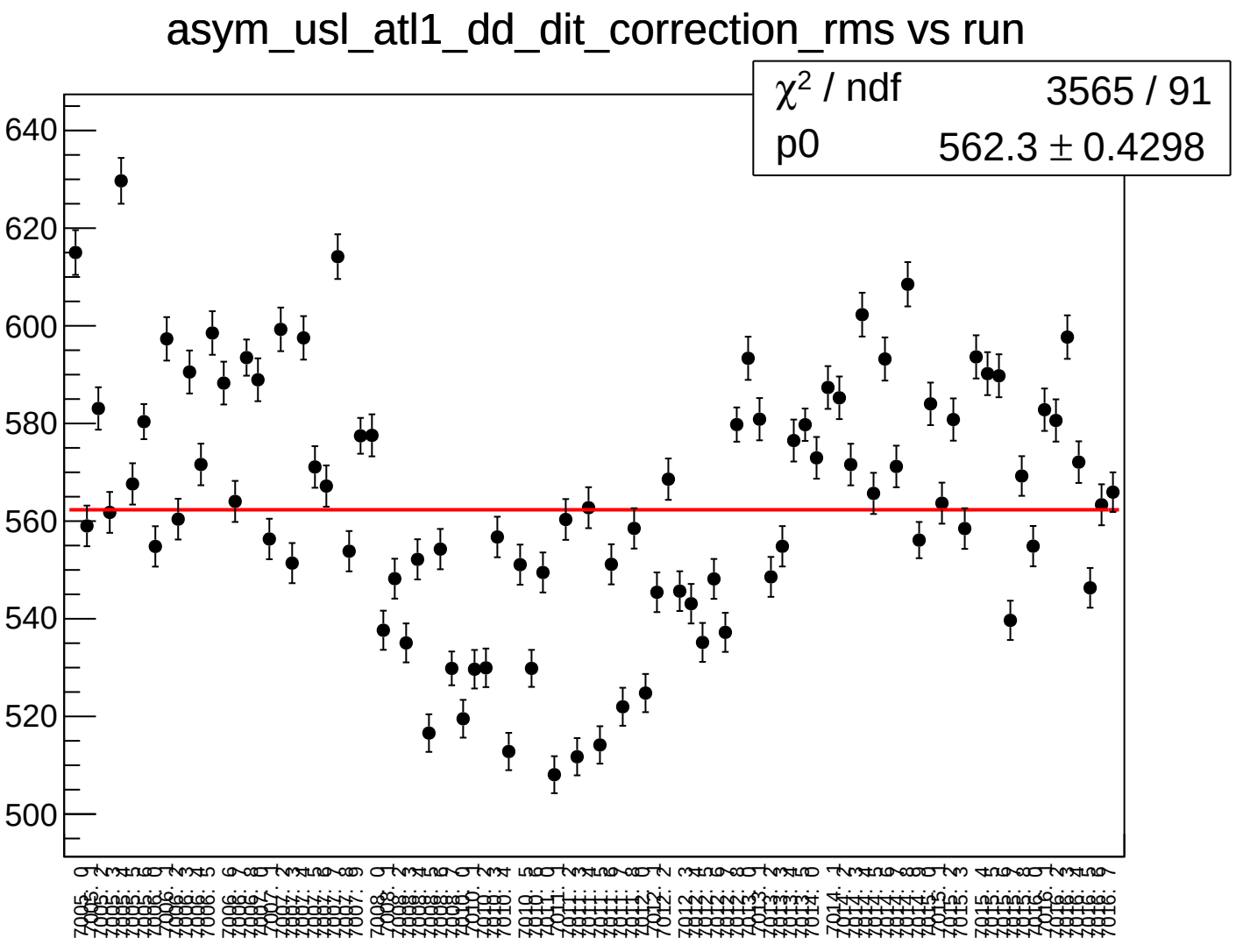

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 65.63 / 91
p0 −1397 ± 1228
pull
Entries 92
Mean −166.7
Std Dev 0

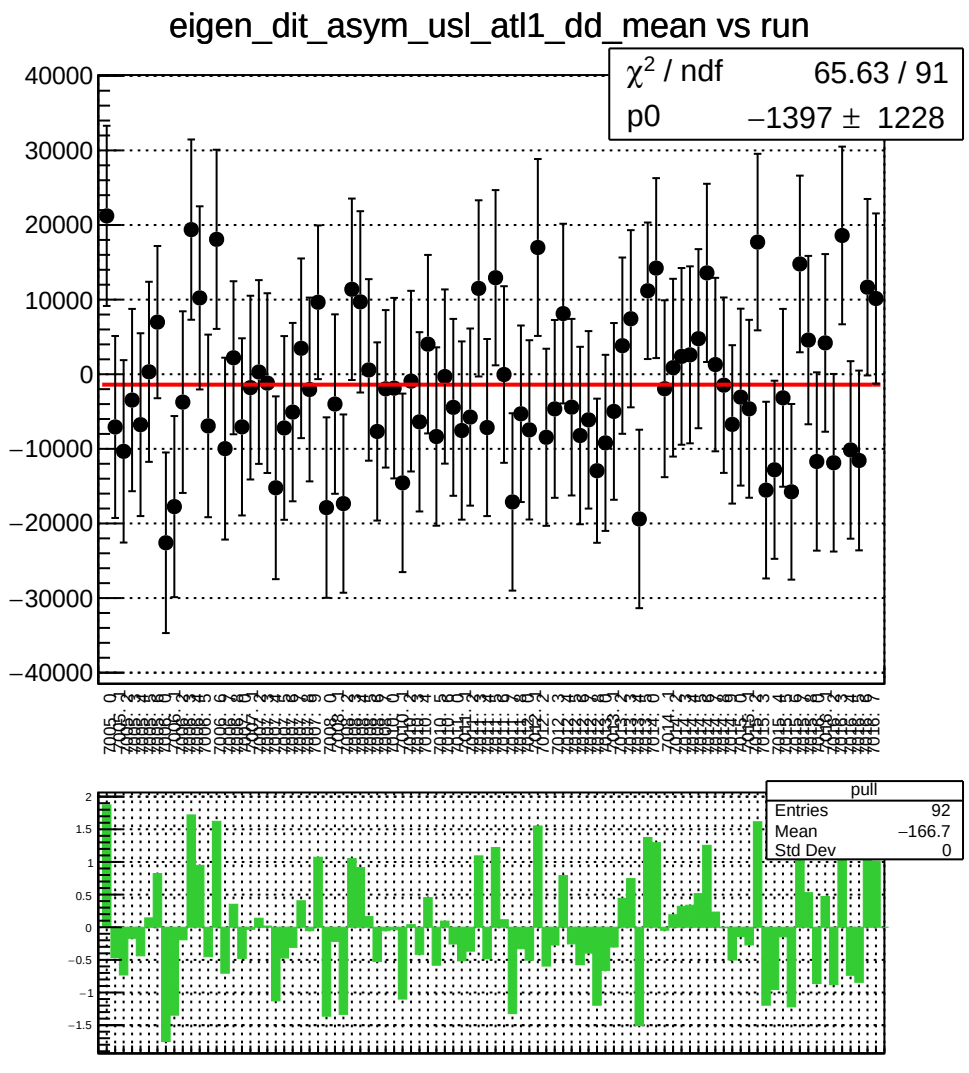

pull1D
Entries 92
Mean −0.006586
Std Dev 0.8446

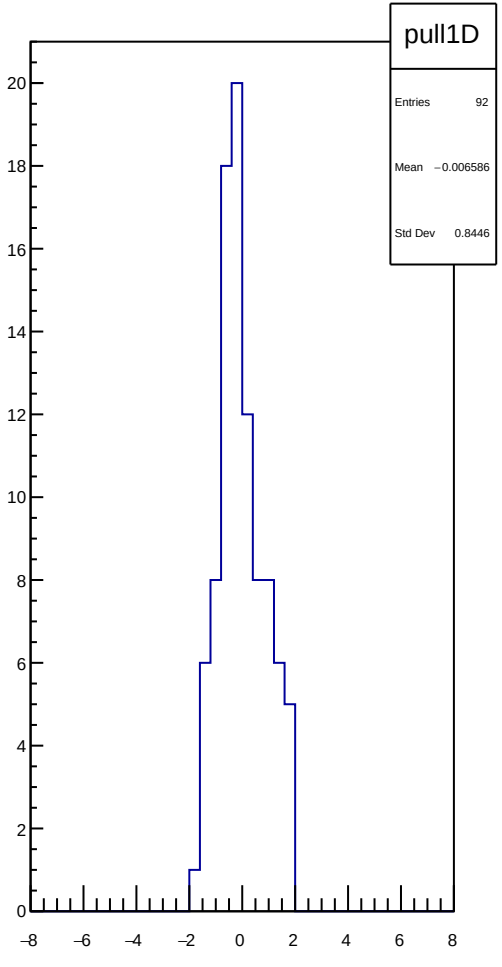

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 289.8 / 91
p0 1137 ± 0.8683
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090

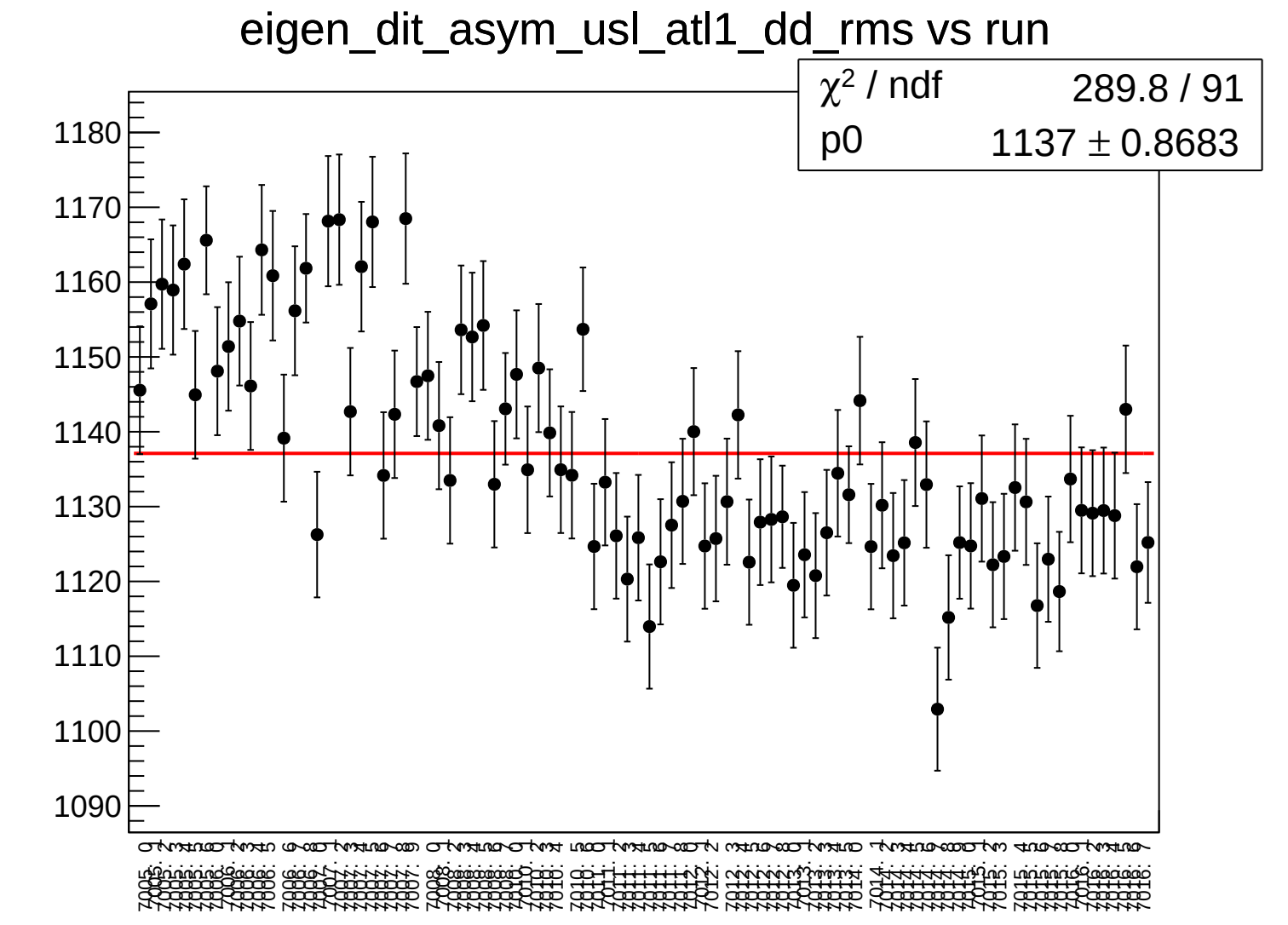

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 76.01 / 91
p0 −1450 ± 607.8
pull
Entries 92
Mean −40.92
Std Dev 0

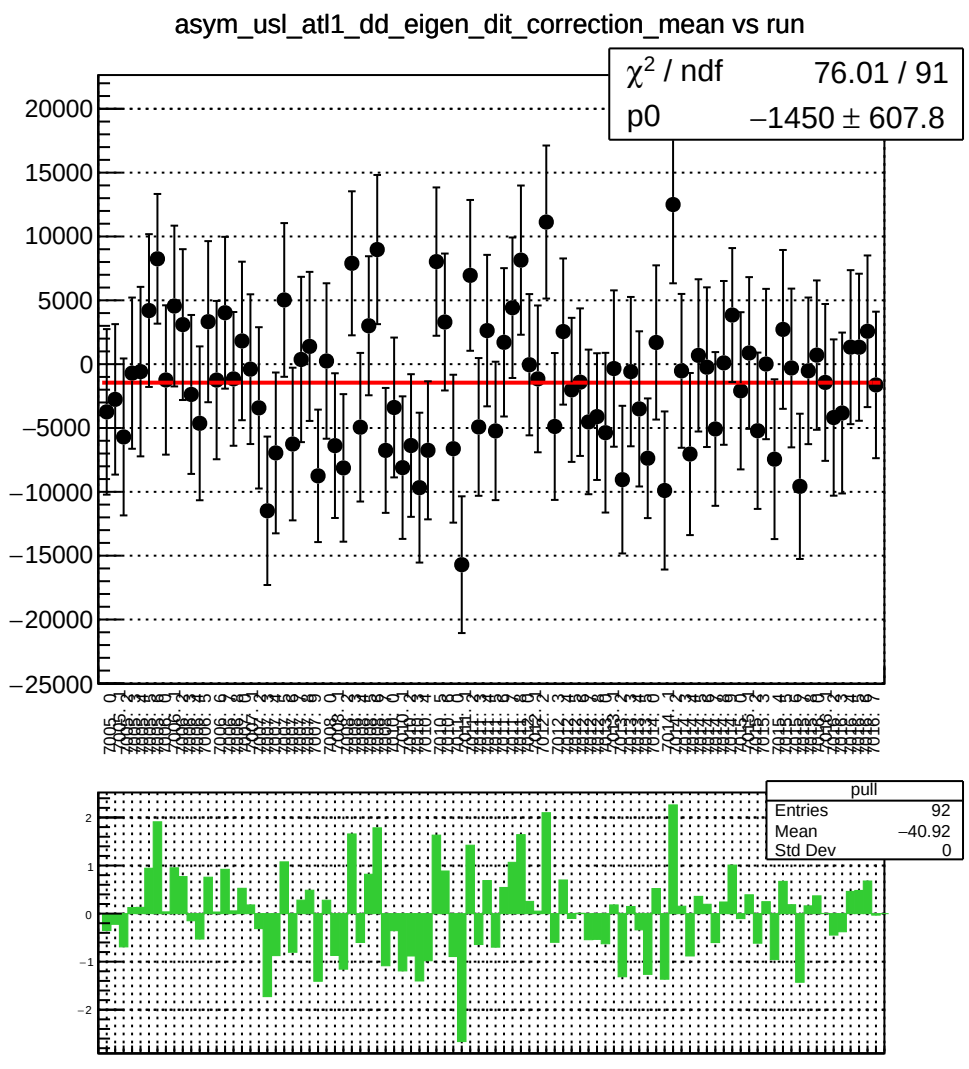

pull1D
Entries 92
Mean 0.009107
Std Dev 0.9089

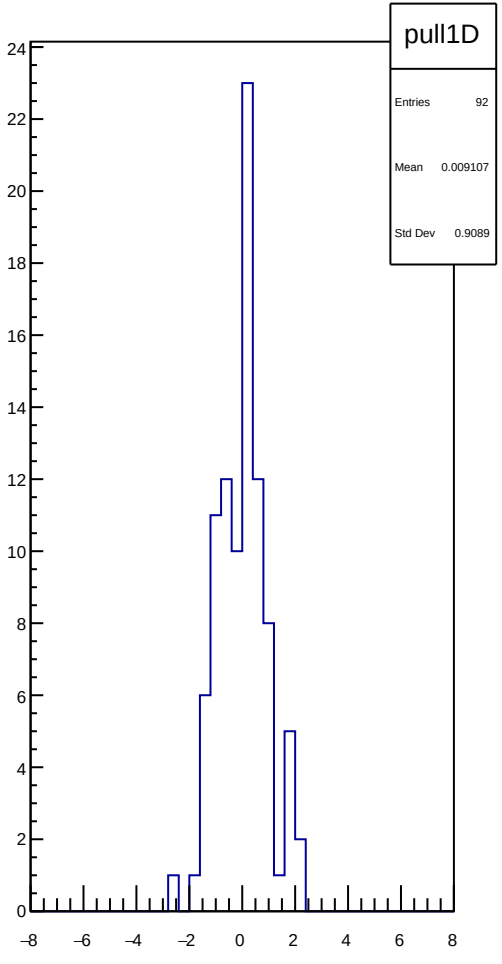

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 3565 / 91
p0 562.3 ± 0.4298
640
620
600
580
560
540
520
500

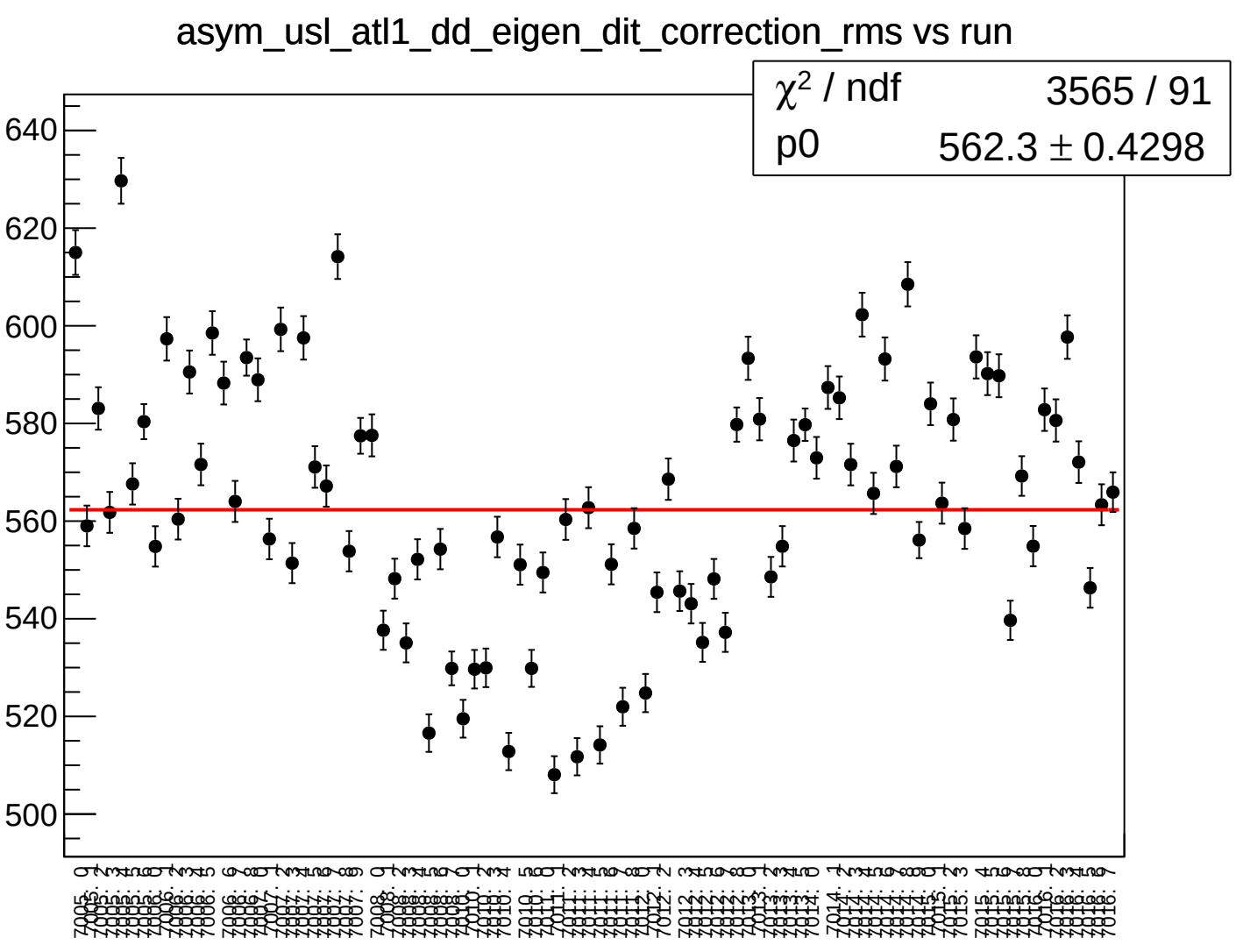

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 65.63 / 91
p0 −1397 ± 1228
pull
Entries 92
Mean −166.7
Std Dev 0

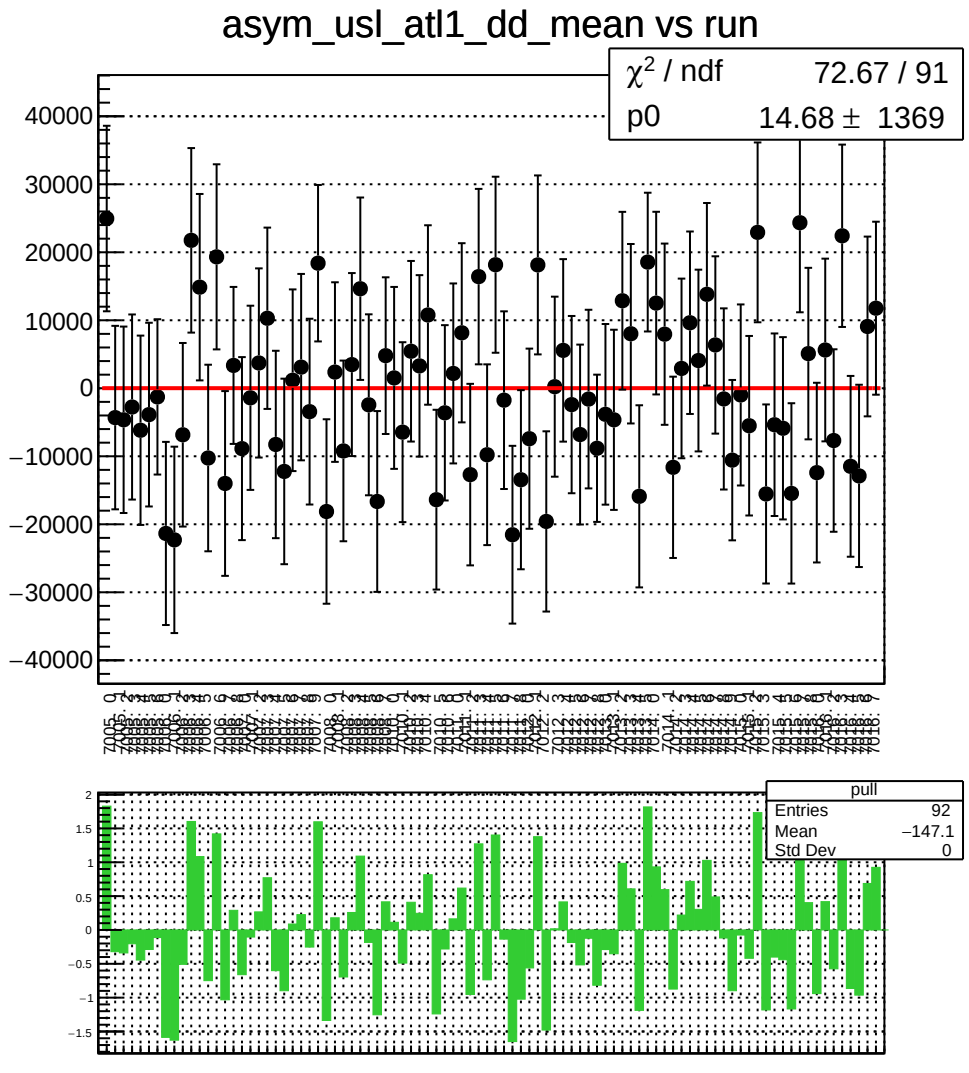

pull1D
Entries 92
Mean −0.006586
Std Dev 0.8446

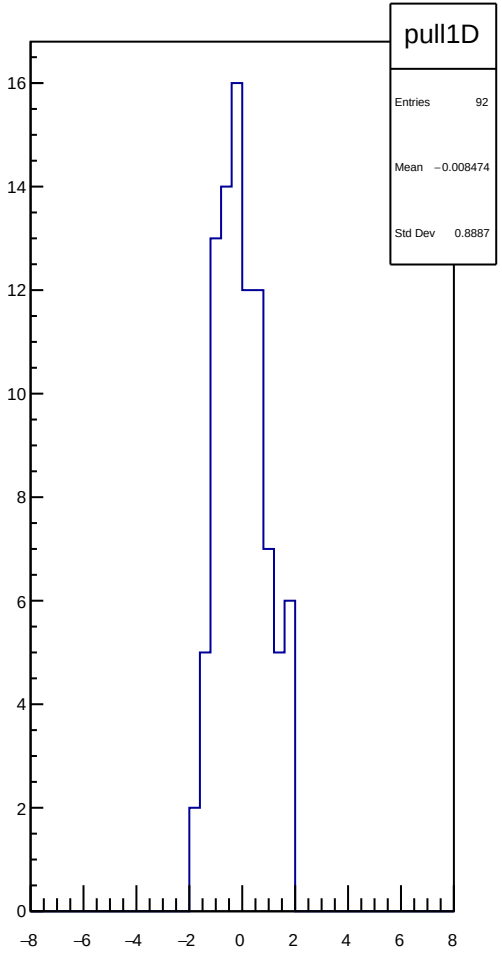

eigen_dit_asym_usl_atl1_dd_rms vs run
$\chi^2$ / ndf 289.8 / 91
p0 1137 ± 0.8683
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090

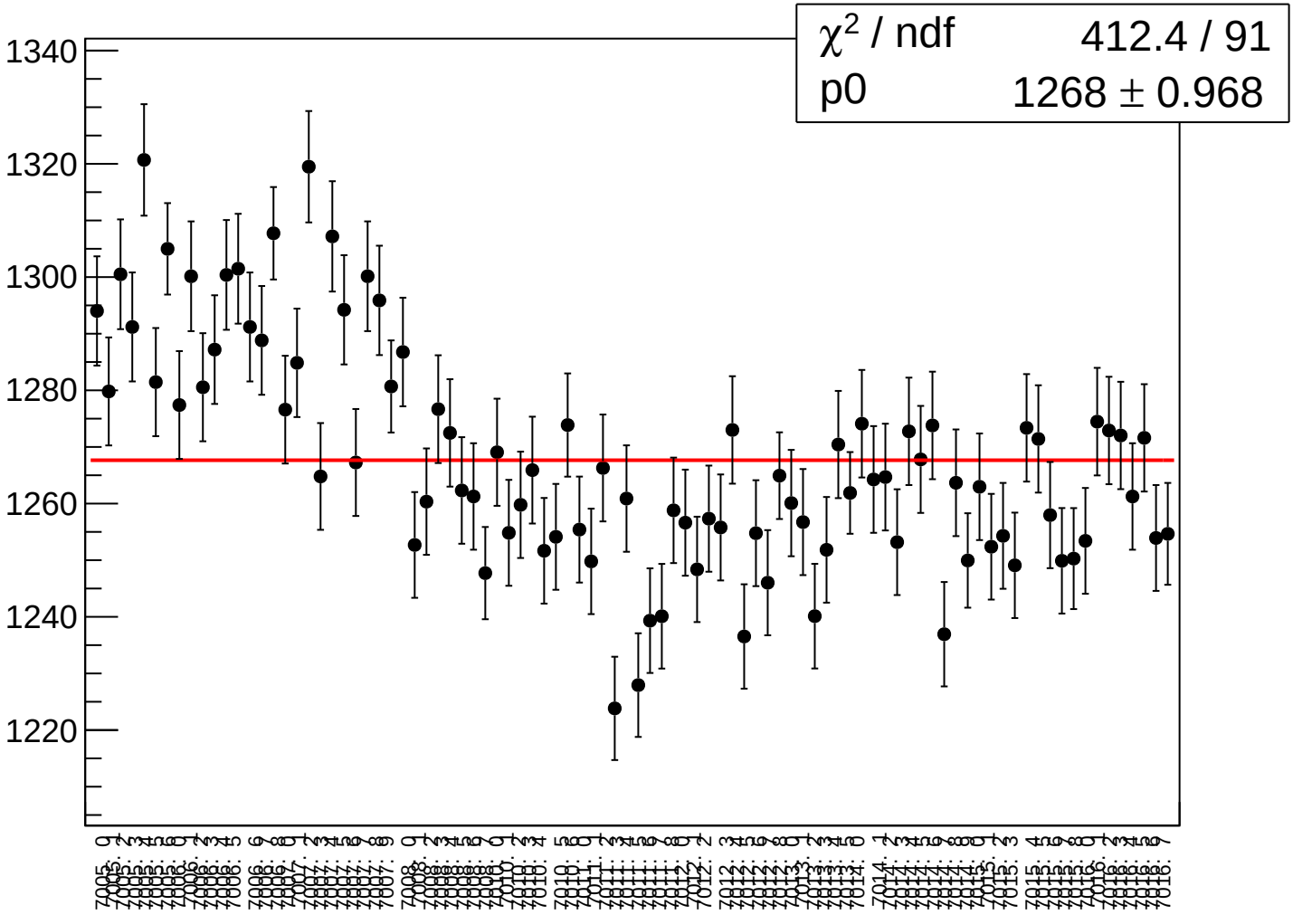

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.01 / 91
p0 −1450 ± 607.8
pull
Entries 92
Mean −40.92
Std Dev 0

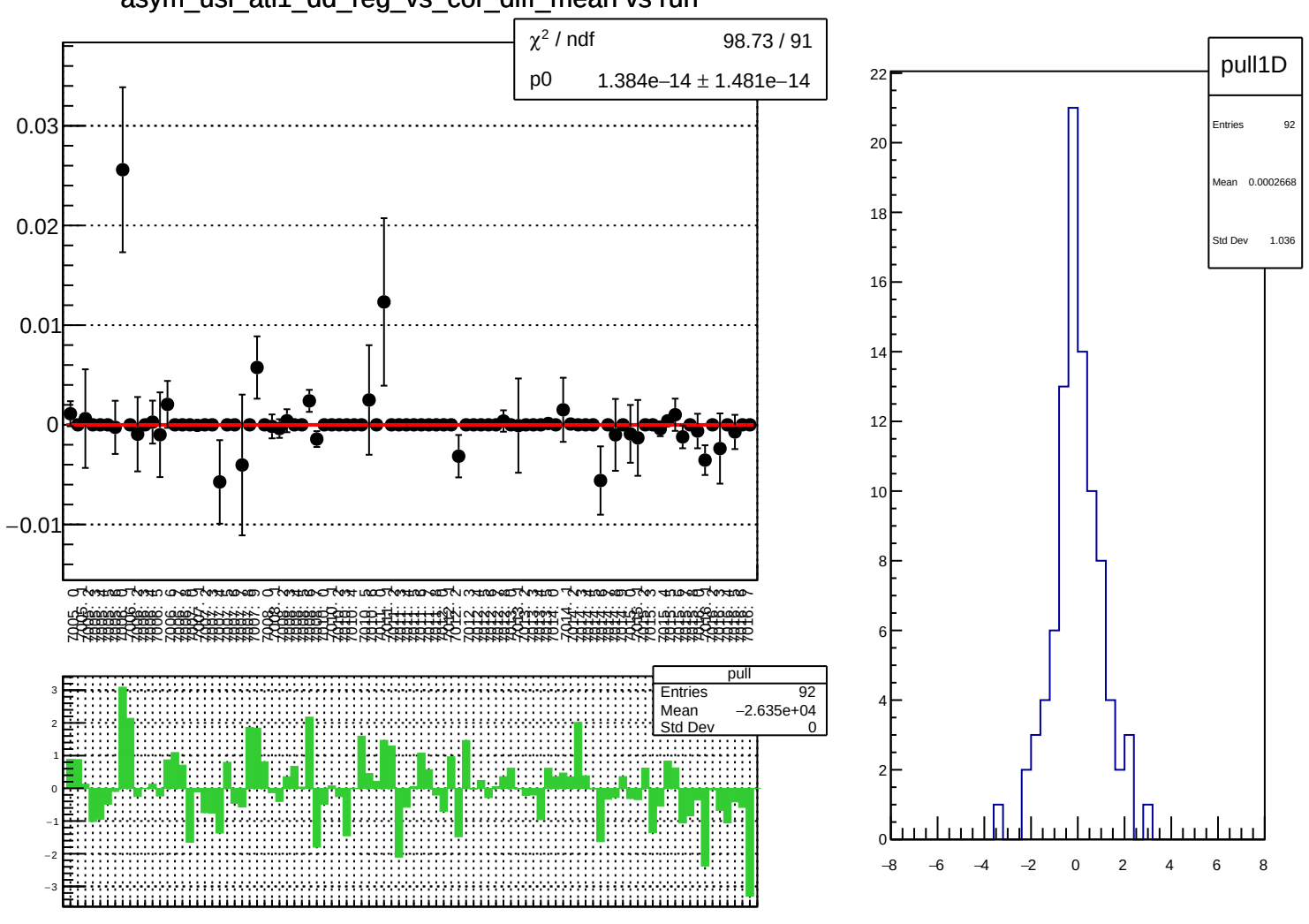

pull1D
Entries 92
Mean 0.009107
Std Dev 0.9089

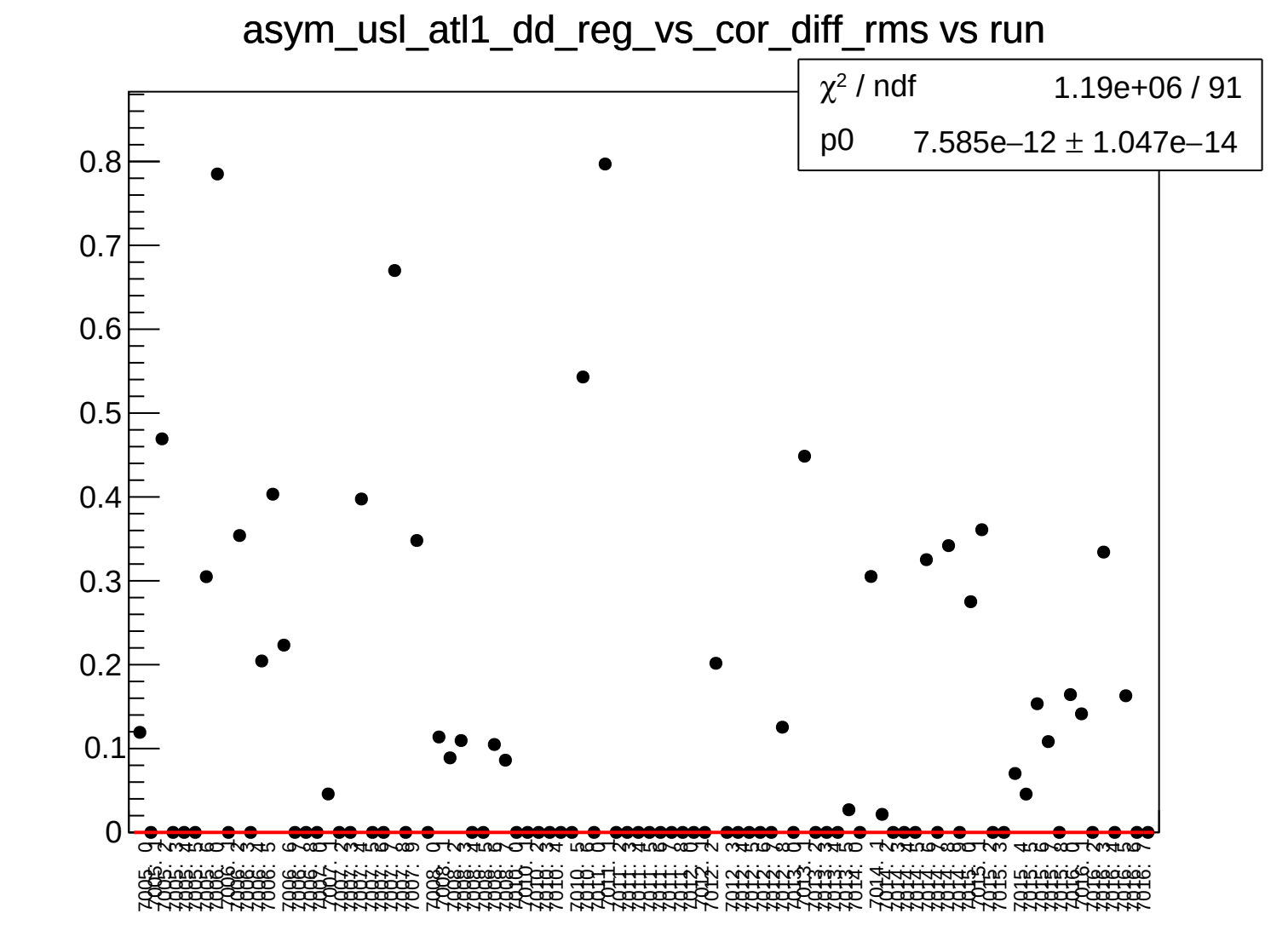

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3565 / 91
p0 562.3 ± 0.4298
640
620
600
580
560
540
520
500

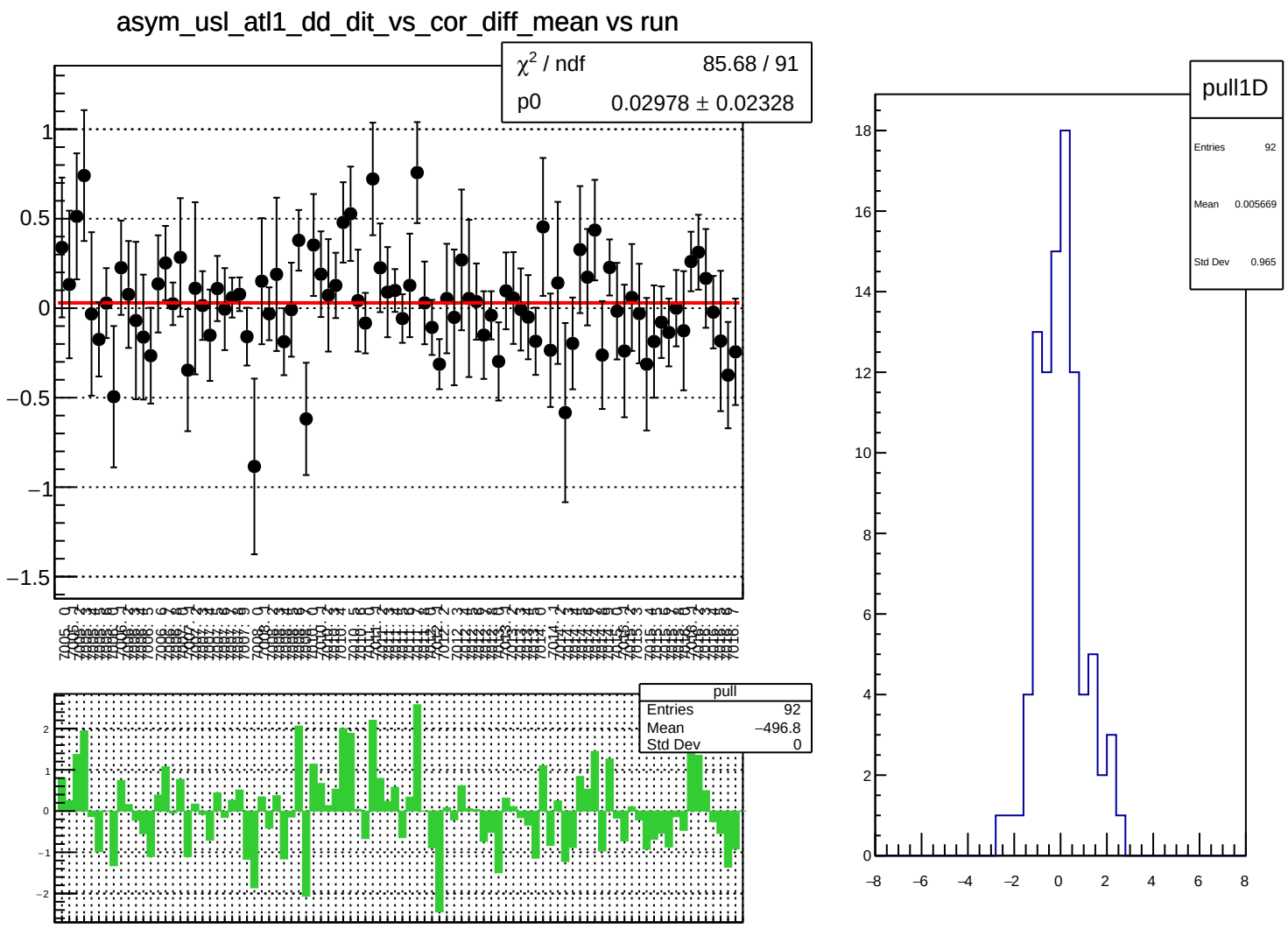

asym_usl_atl1_dd_mean vs run
χ² / ndf 72.67 / 91
p0 14.68 ± 1369
pull
Entries 92
Mean −147.1
Std Dev 0

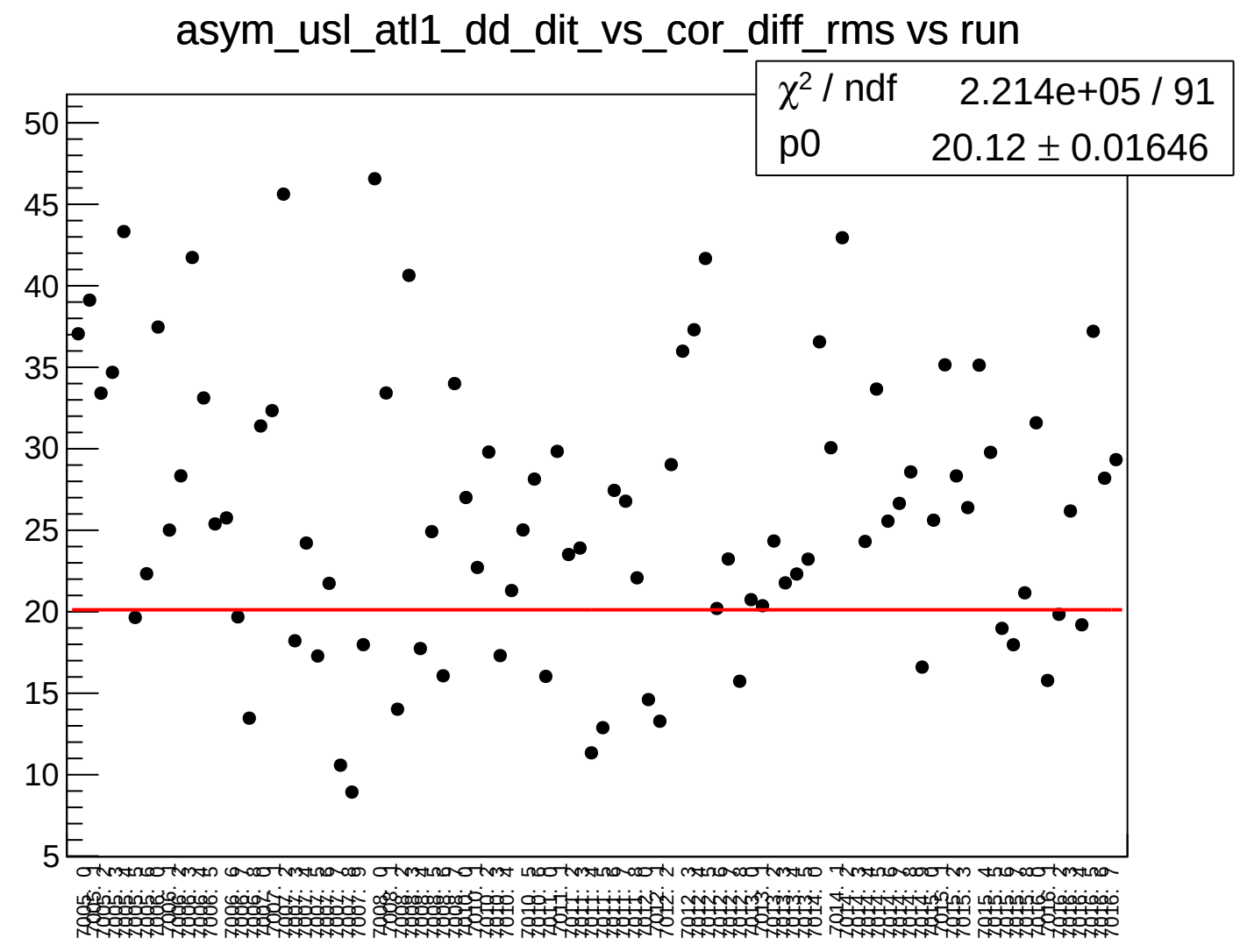

pull1D
Entries 92
Mean −0.008474
Std Dev 0.8887

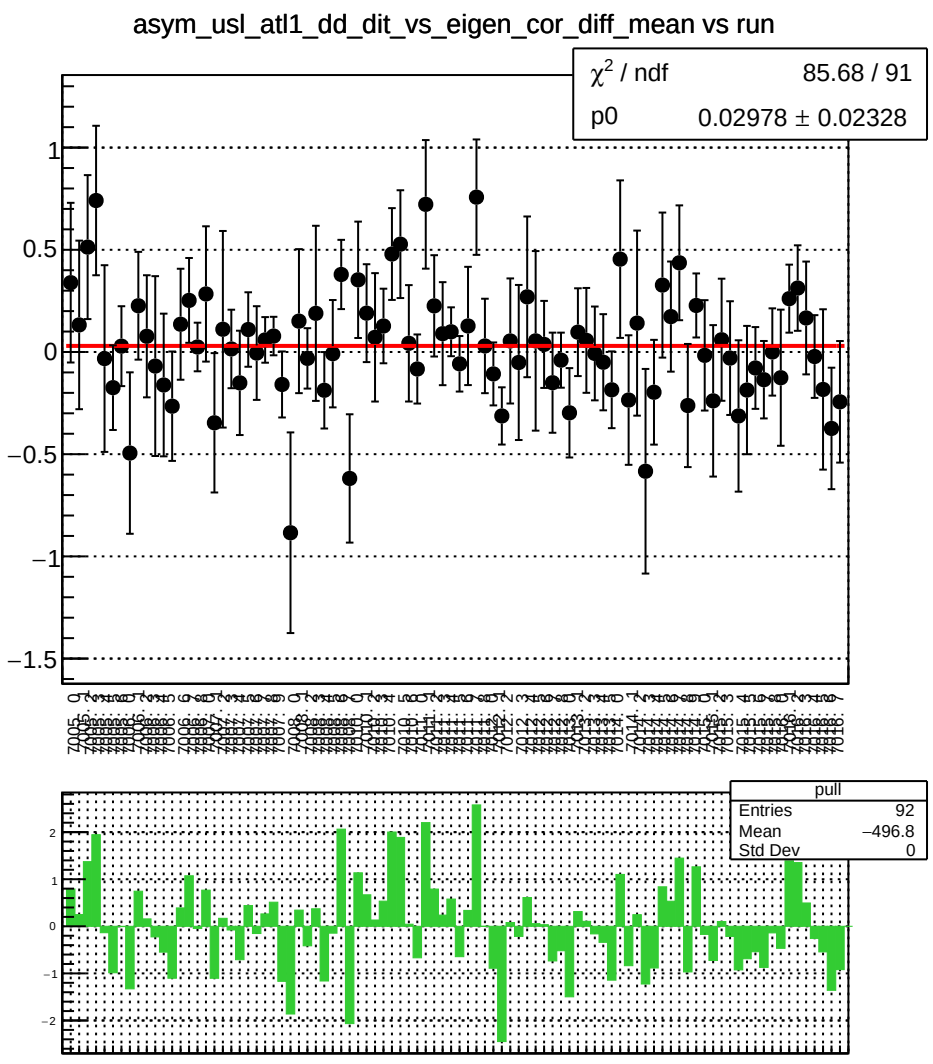

asym_usl_atl1_dd_rms vs run
χ² / ndf 412.4 / 91
p0 1268 ± 0.968
1340
1320
1300
1280
1260
1240
1220

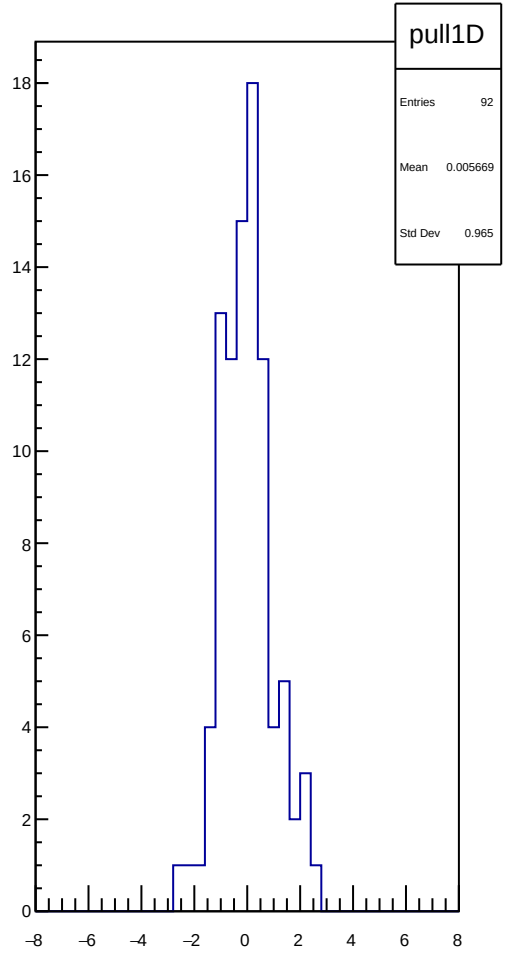

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.73 / 91
p0 1.384e−14 ± 1.481e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 92
Mean −2.635e+04
Std Dev 0
pull1D
Entries 92
Mean 0.0002668
Std Dev 1.036

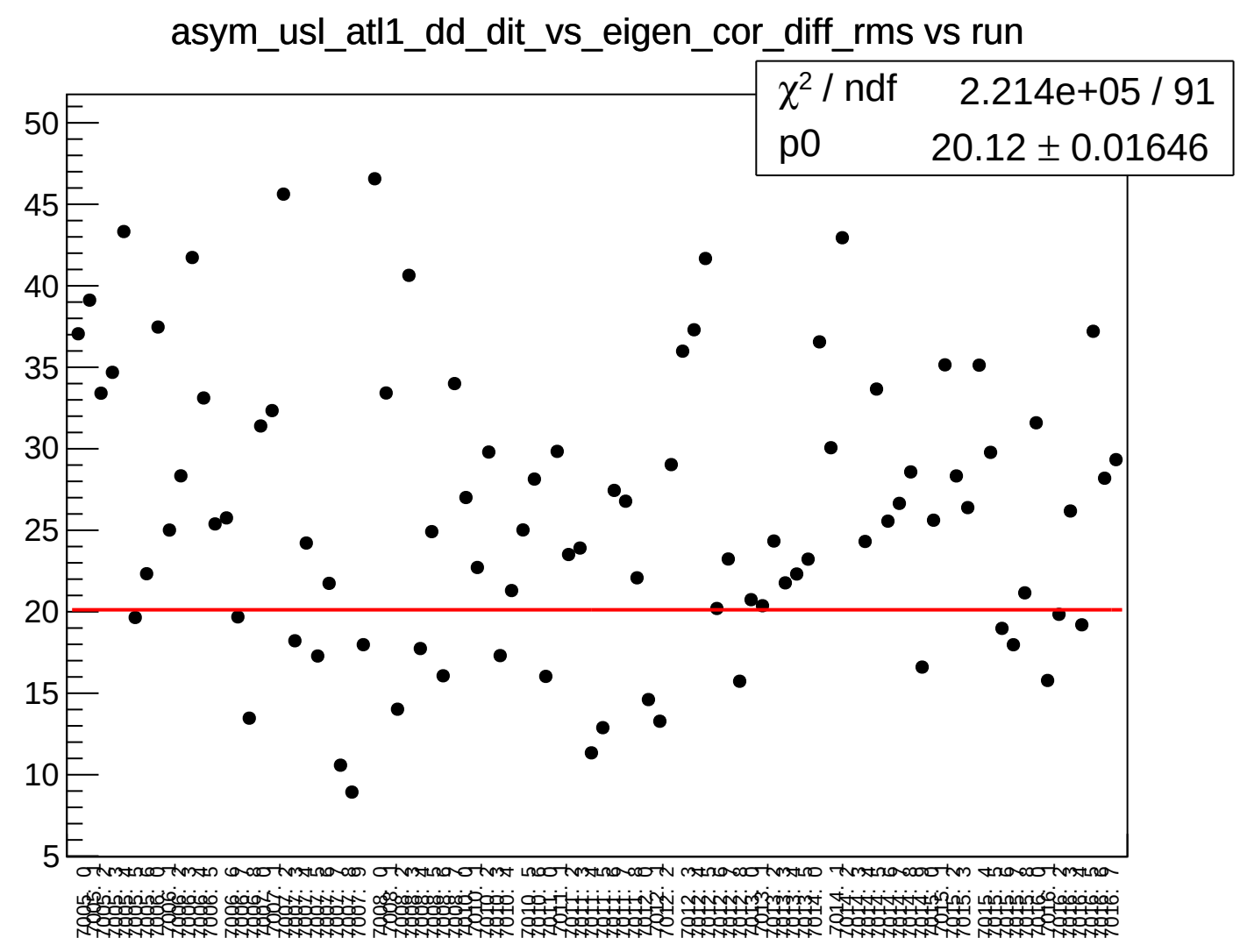

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.19e+06 / 91
p0 7.585e−12 ± 1.047e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

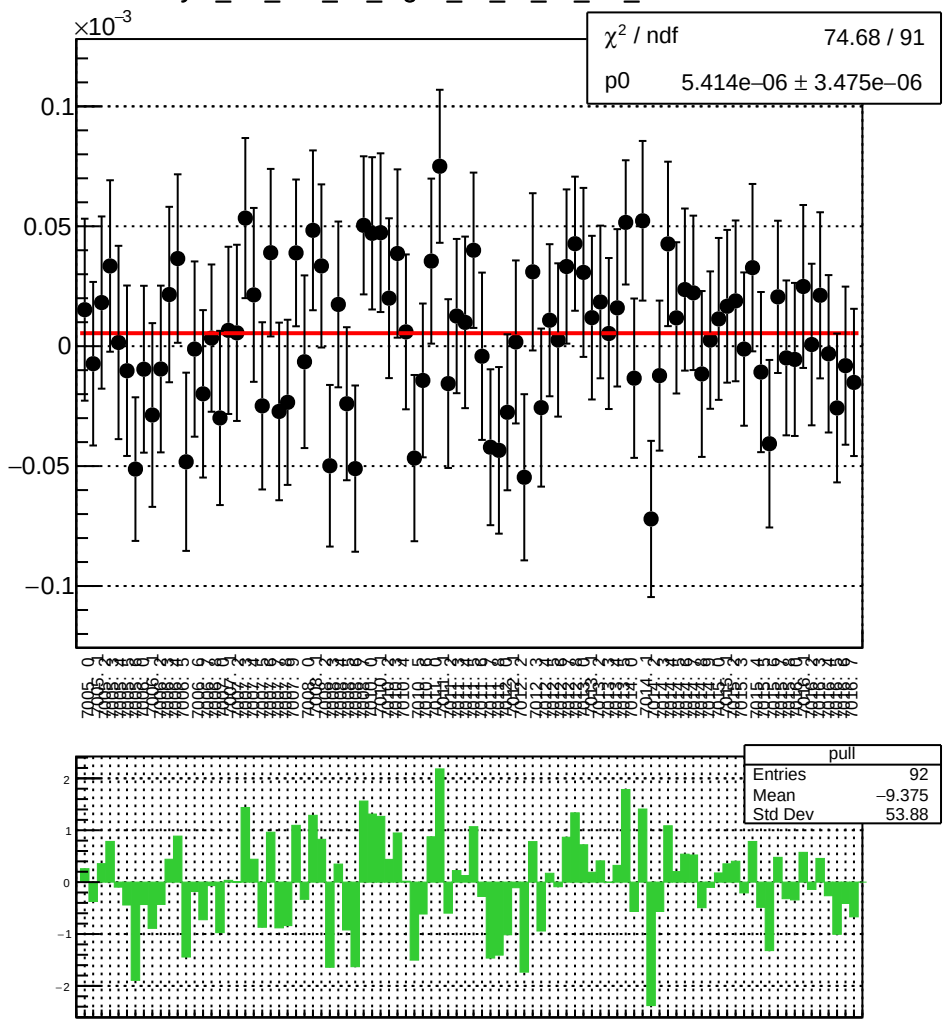

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.68 / 91
p0 0.02978 ± 0.02328
pull
Entries 92
Mean −496.8
Std Dev 0
pull1D
Entries 92
Mean 0.005669
Std Dev 0.965

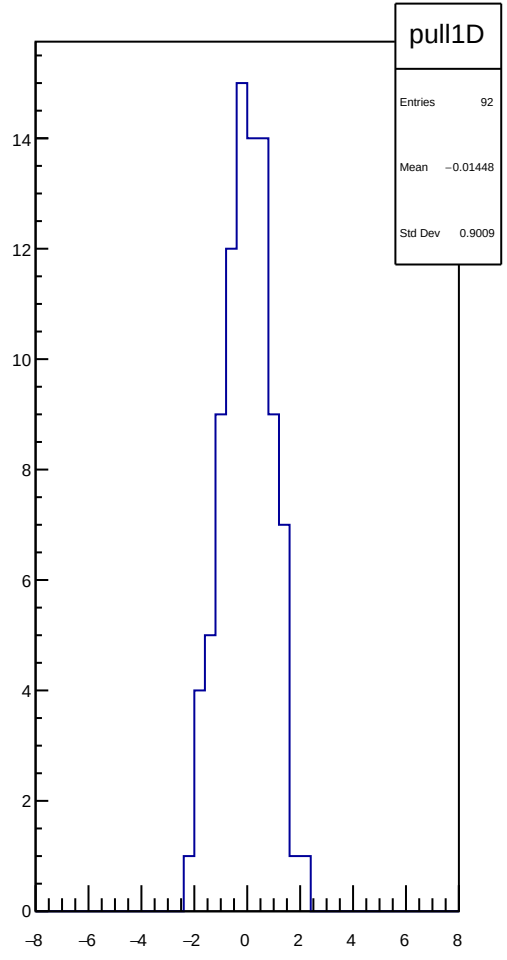

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.214e+05 / 91
p0 20.12 ± 0.01646
50
45
40
35
30
25
20
15
10
5

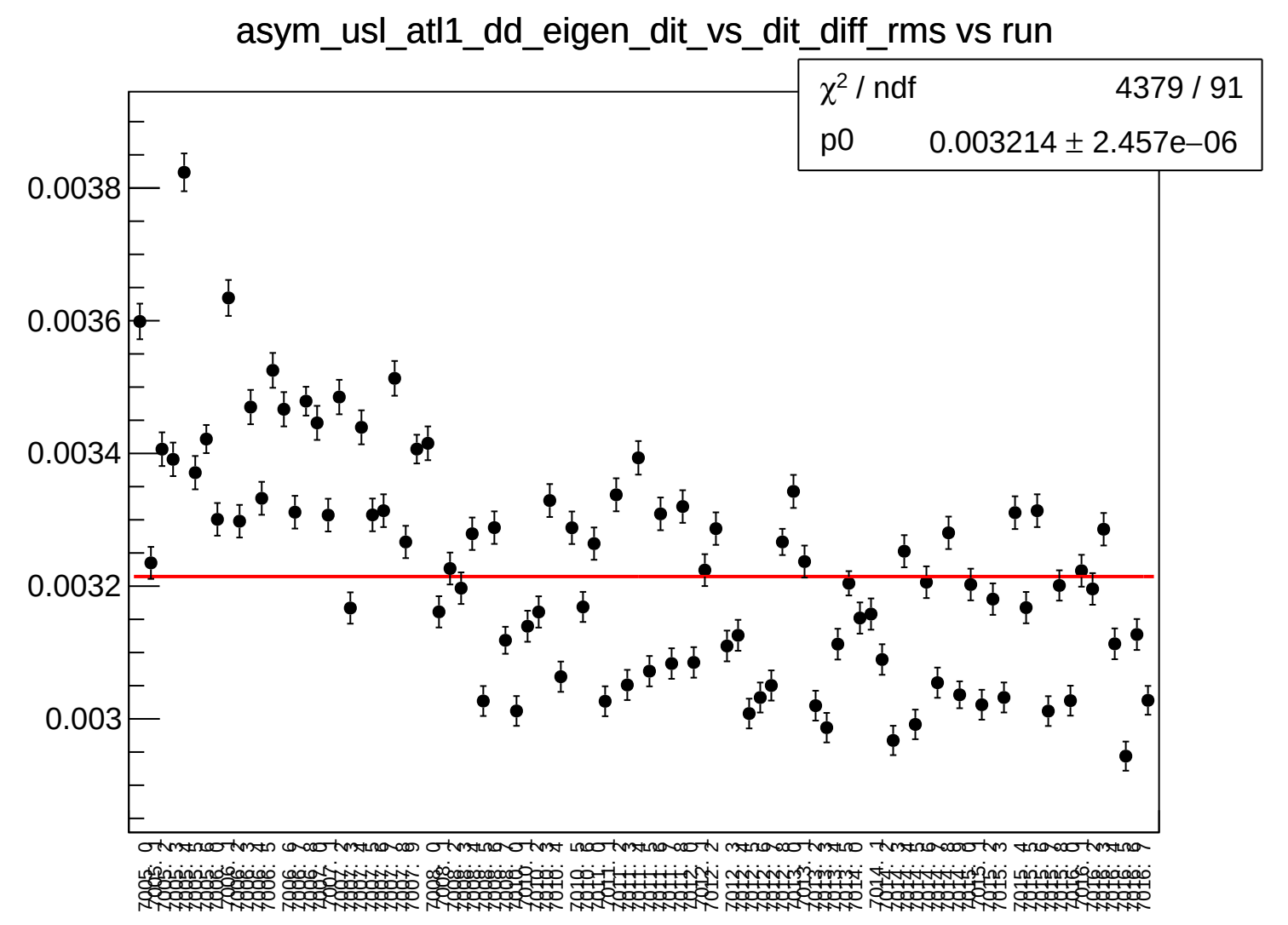

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.68 / 91
p0 0.02978 ± 0.02328
pull
Entries 92
Mean −496.8
Std Dev 0

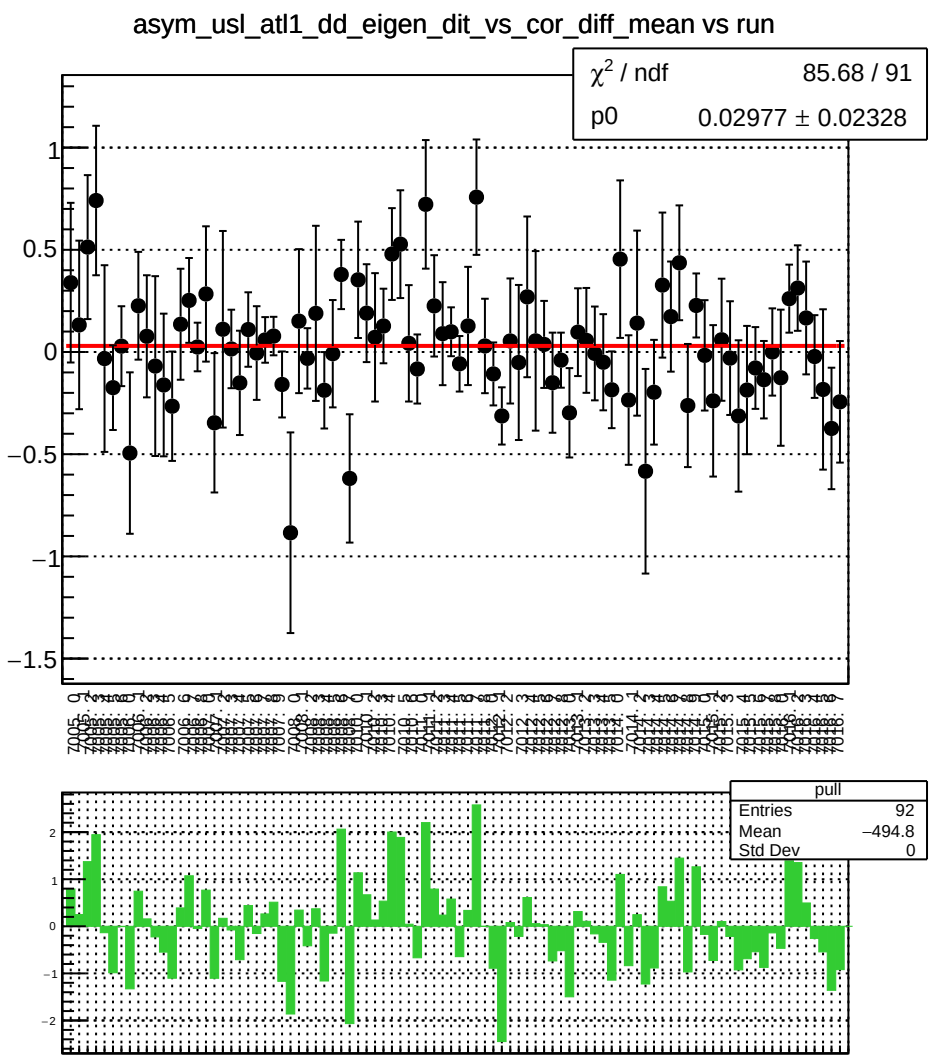

pull1D
Entries 92
Mean 0.005669
Std Dev 0.965

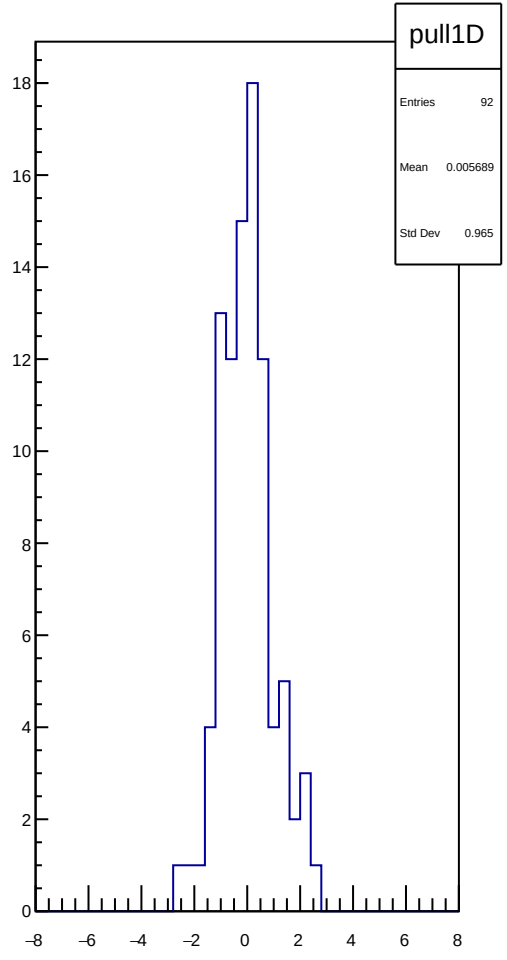

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.214e+05 / 91
p0 20.12 ± 0.01646
50
45
40
35
30
25
20
15
10
5

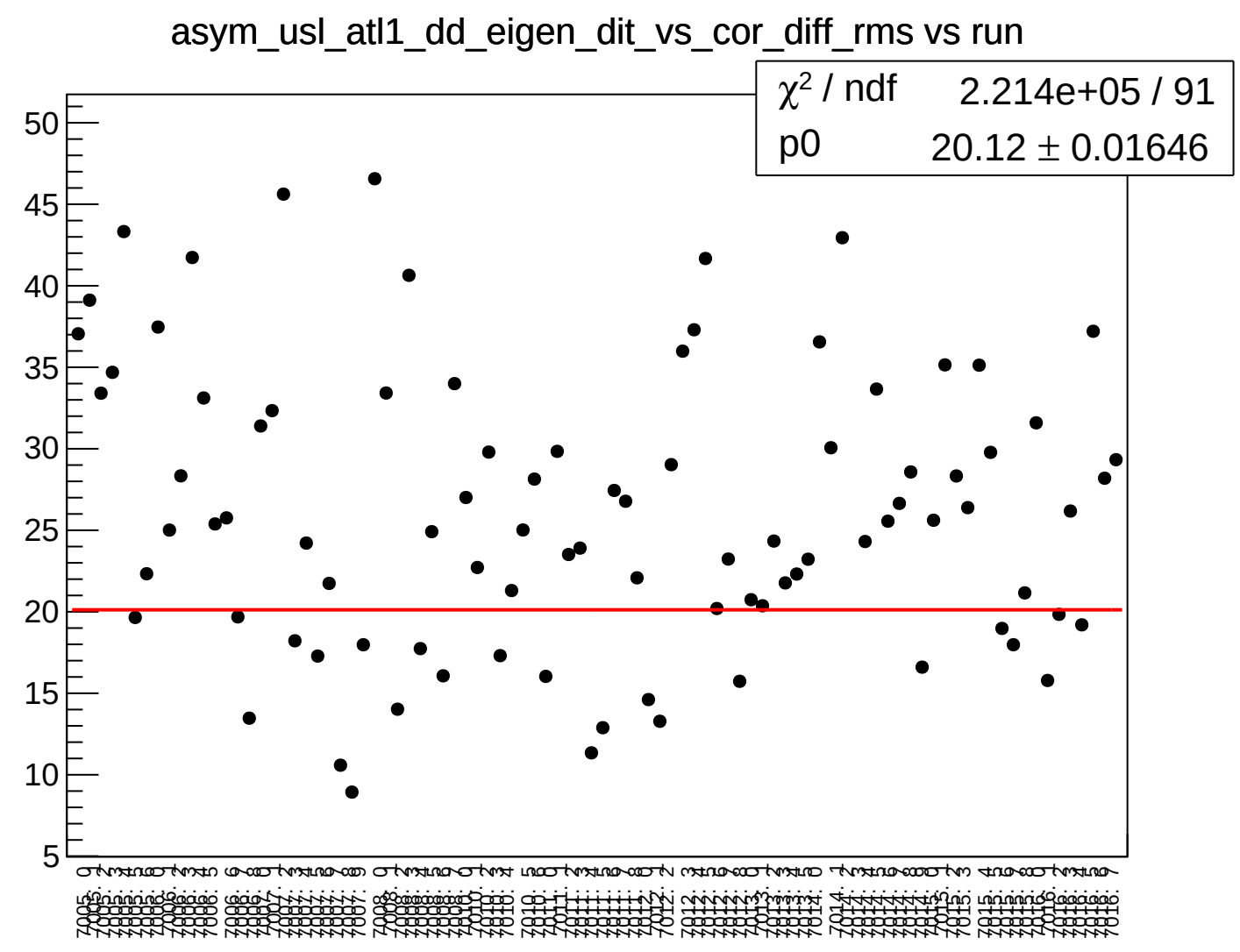

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.68 / 91
p0 5.414e−06 ± 3.475e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −9.375
Std Dev 53.88
2
1
0
−1
−2

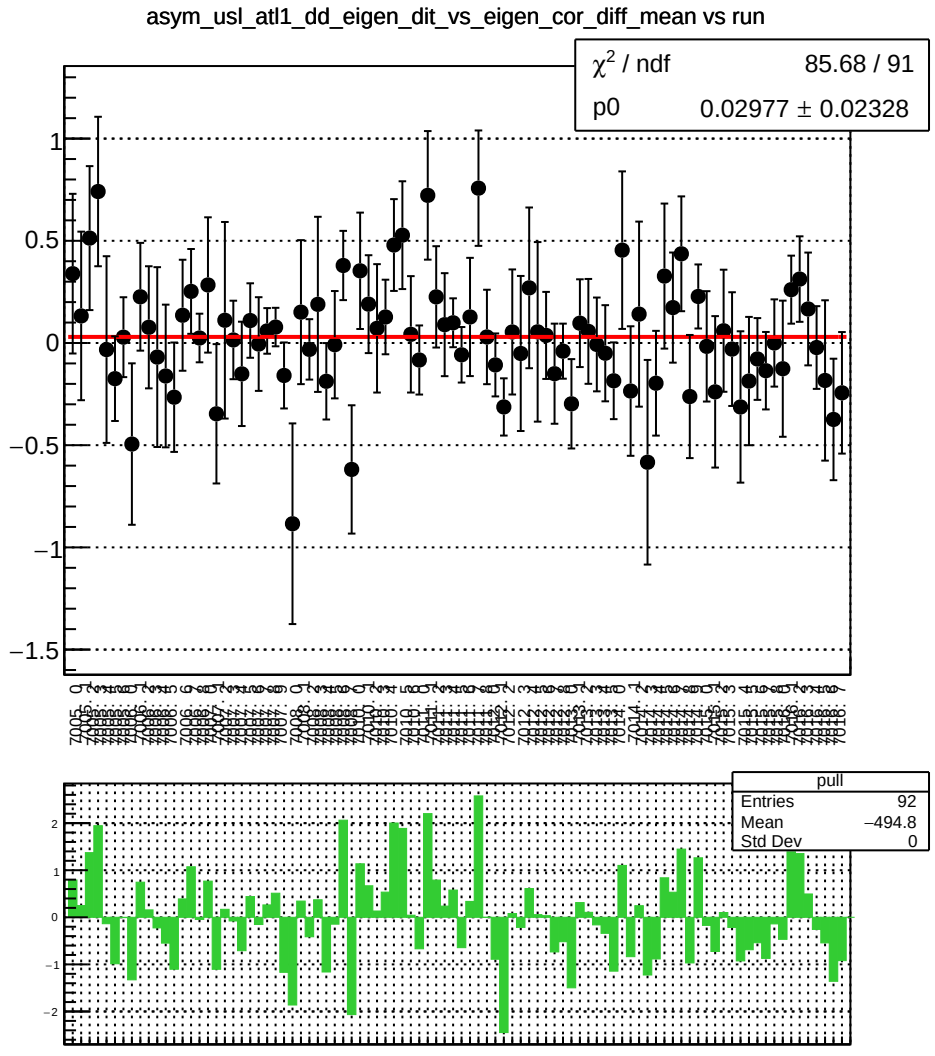

pull1D
Entries 92
Mean −0.01448
Std Dev 0.9009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

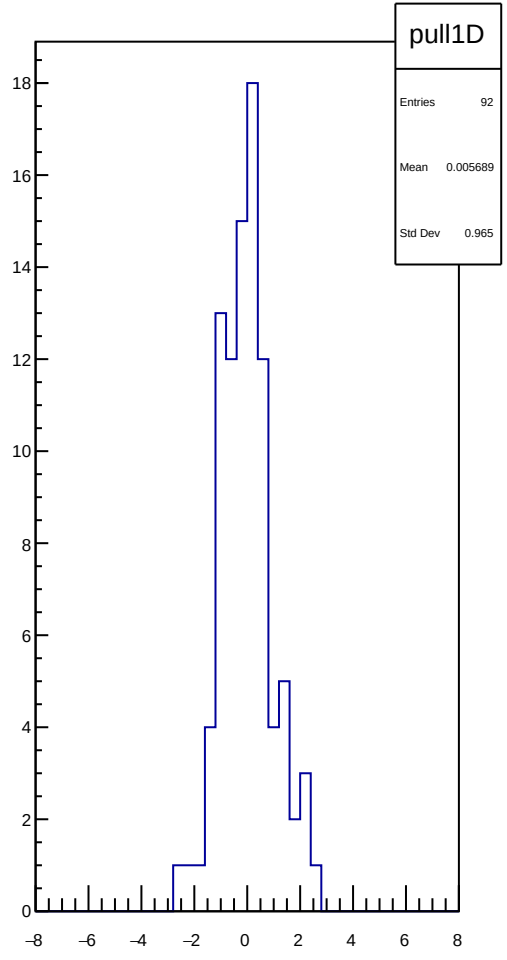

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4379 / 91
p0 0.003214 ± 2.457e−06
0.0038
0.0036
0.0034
0.0032
0.003

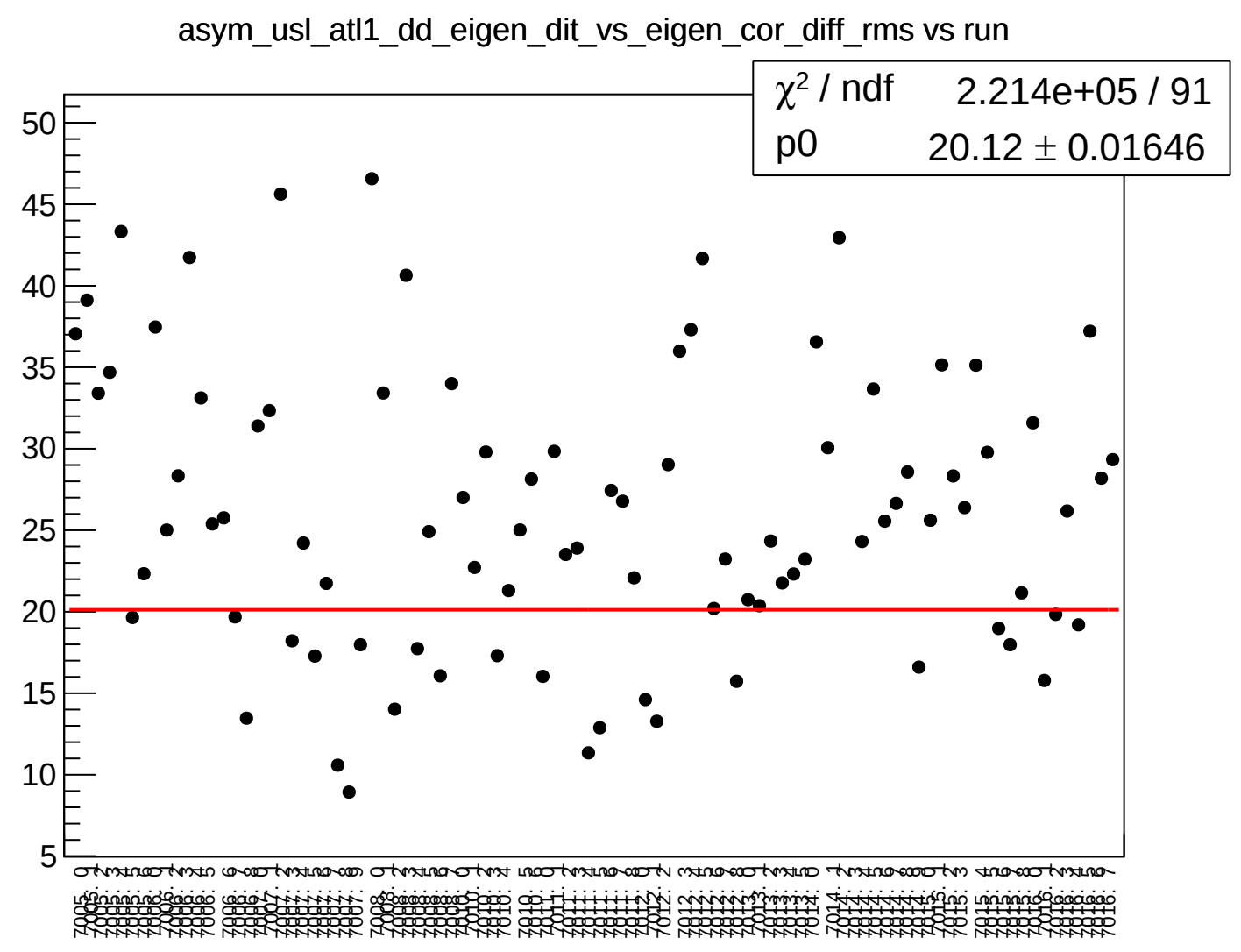

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.68 / 91
p0 0.02977 ± 0.02328
pull
Entries 92
Mean −494.8
Std Dev 0

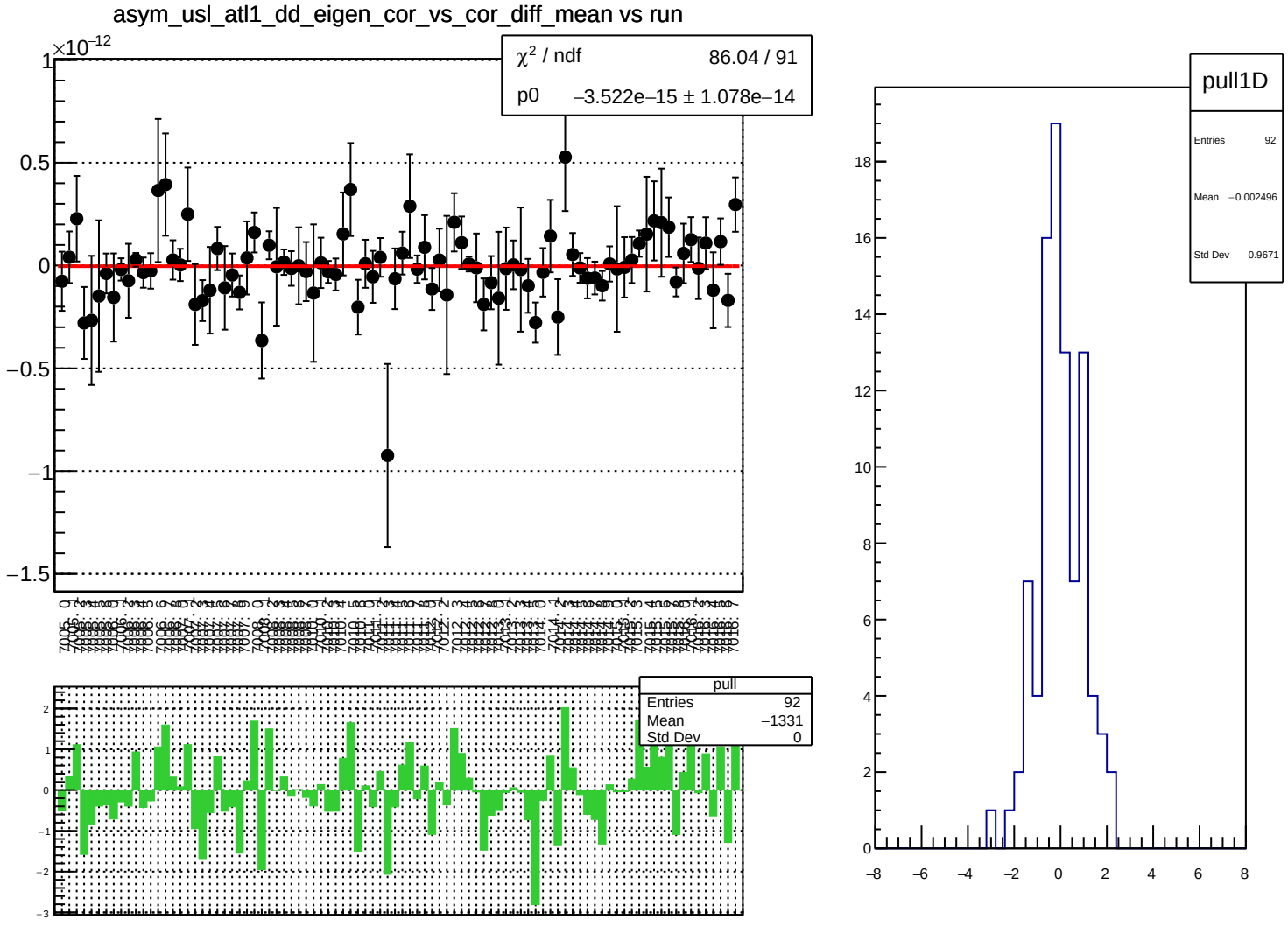

pull1D
Entries 92
Mean 0.005689
Std Dev 0.965

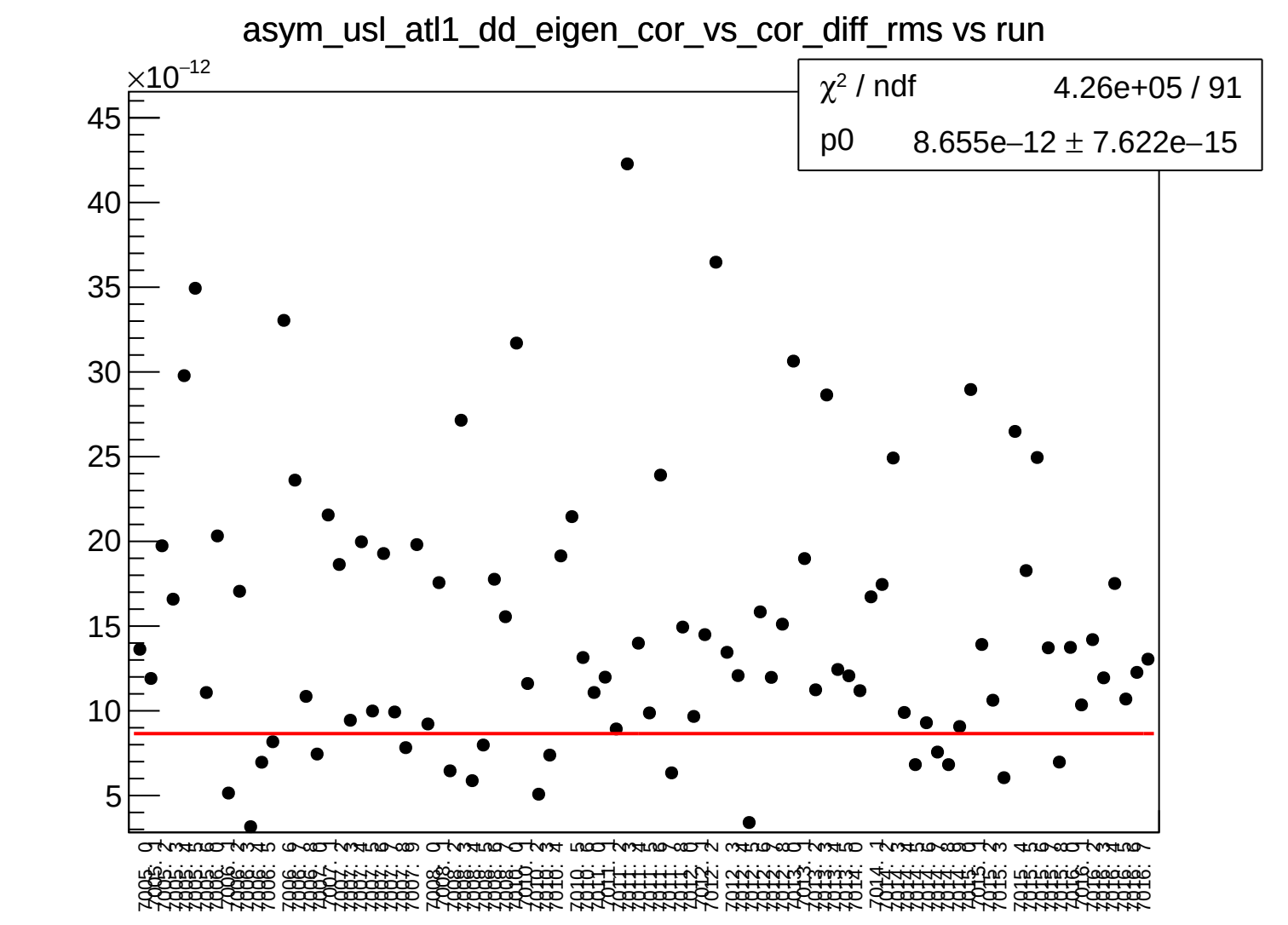

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.214e+05 / 91
p0 20.12 ± 0.01646
50
45
40
35
30
25
20
15
10
5

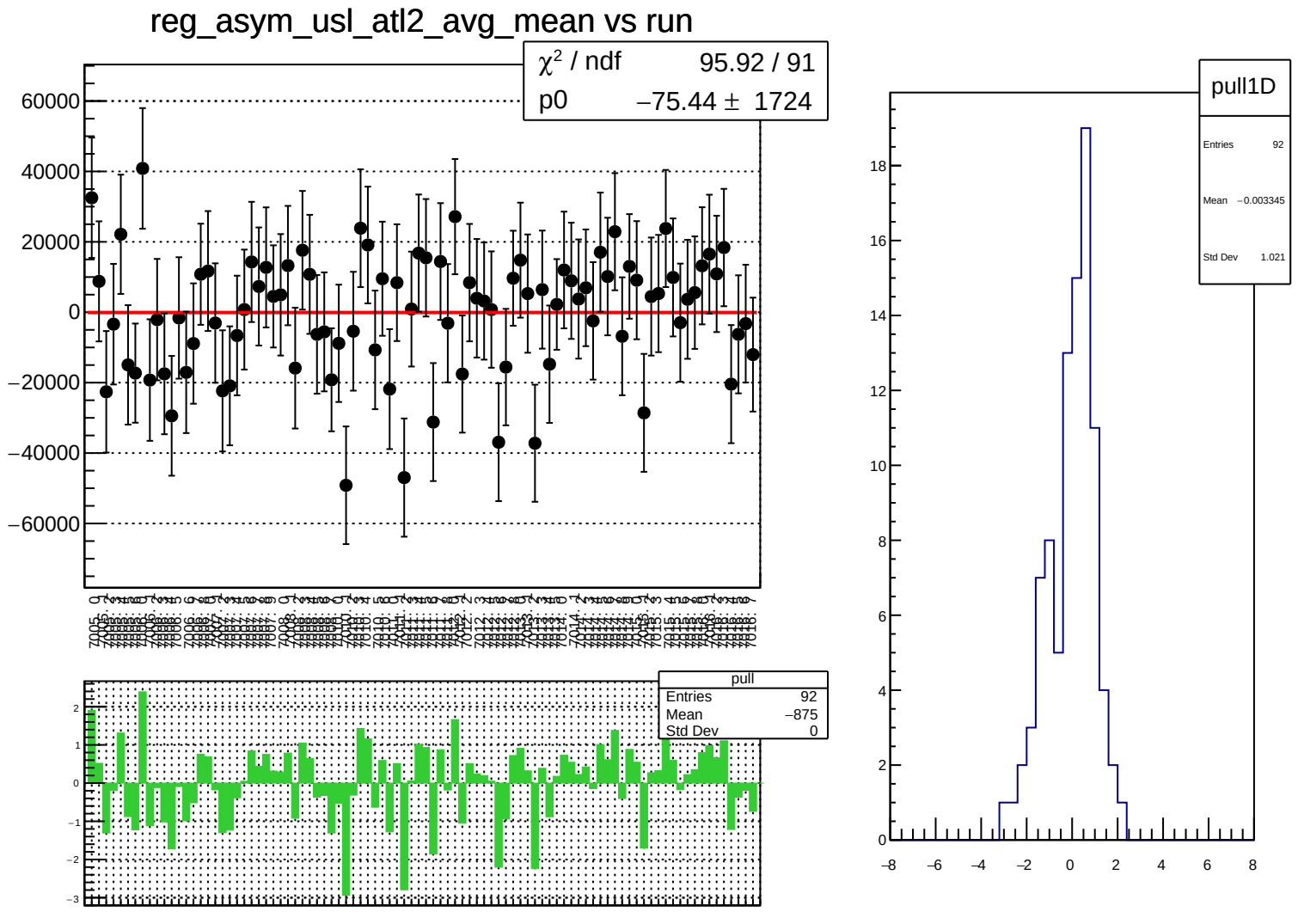

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.68 / 91
p0 0.02977 ± 0.02328
pull
Entries 92
Mean −494.8
Std Dev 0

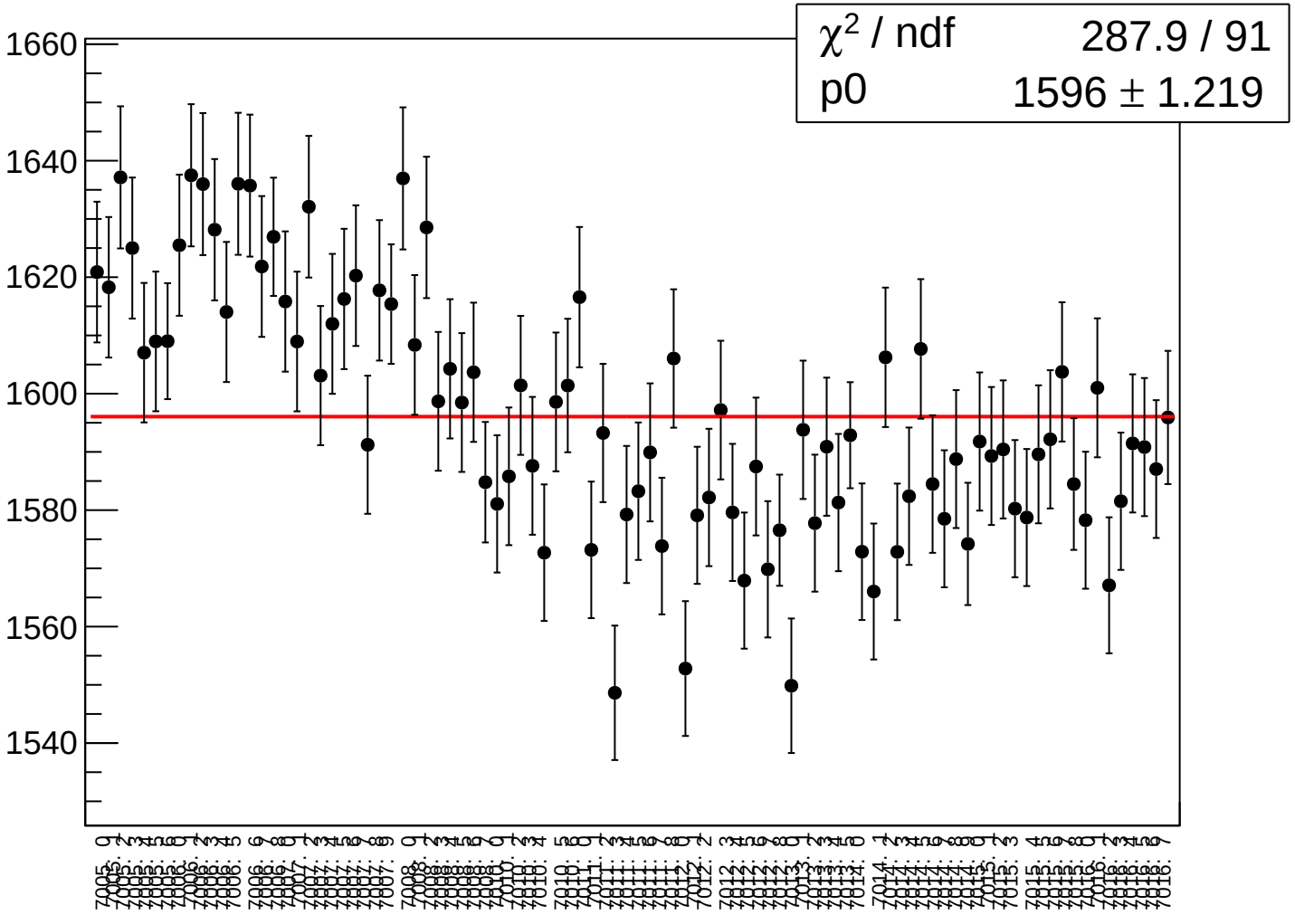

pull1D
Entries 92
Mean 0.005689
Std Dev 0.965

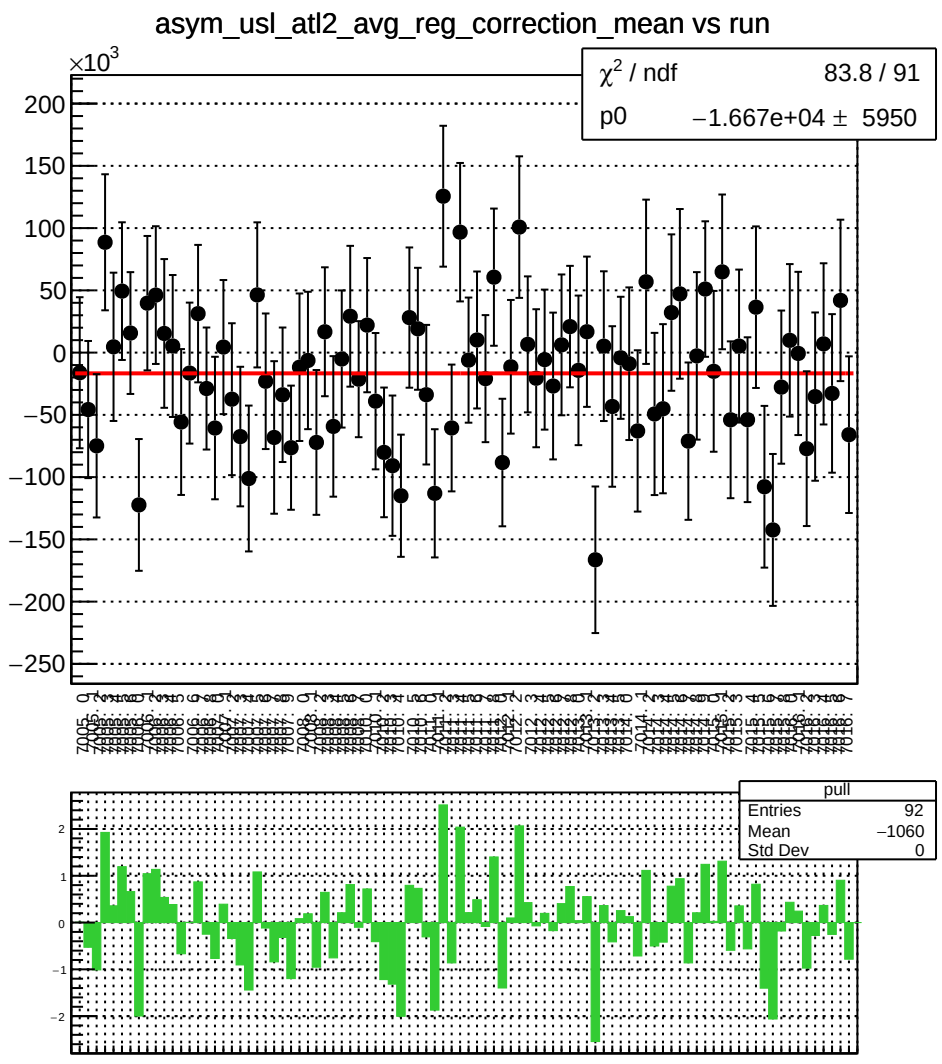

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.214e+05 / 91
p0 20.12 ± 0.01646
50
45
40
35
30
25
20
15
10
5

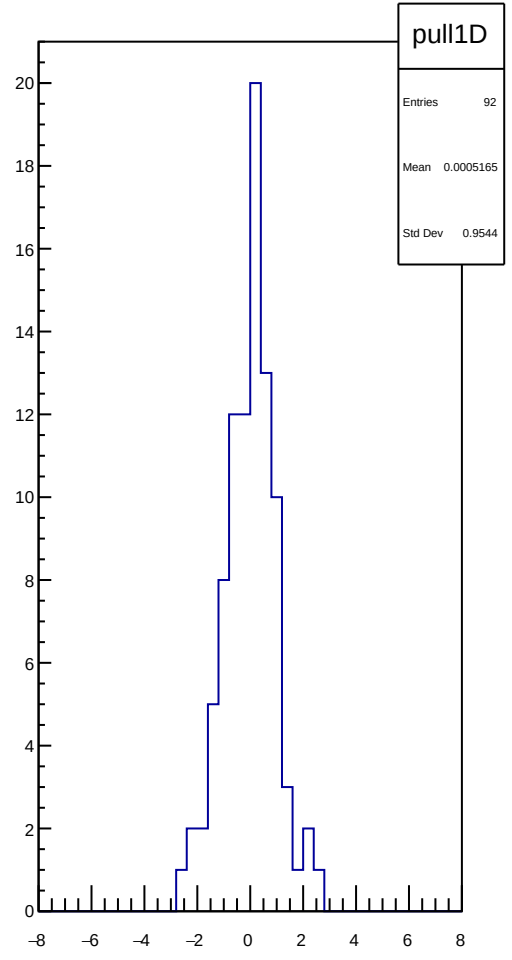

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.04 / 91
p0 −3.522e−15 ± 1.078e−14
pull
Entries 92
Mean −1331
Std Dev 0
pull1D
Entries 92
Mean −0.002496
Std Dev 0.9671

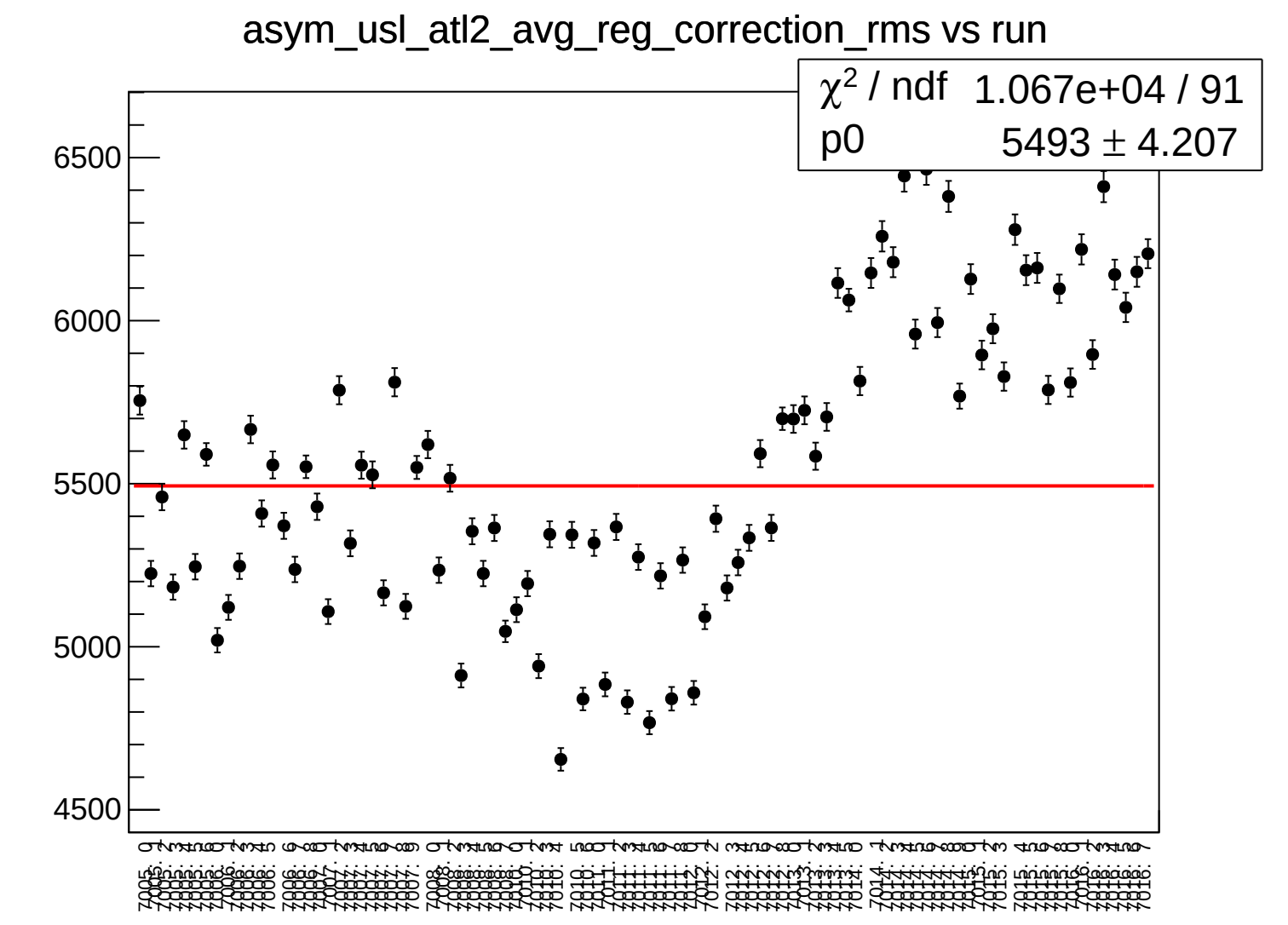

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.26e+05 / 91
p0 8.655e−12 ± 7.622e−15
45
40
35
30
25
20
15
10
5

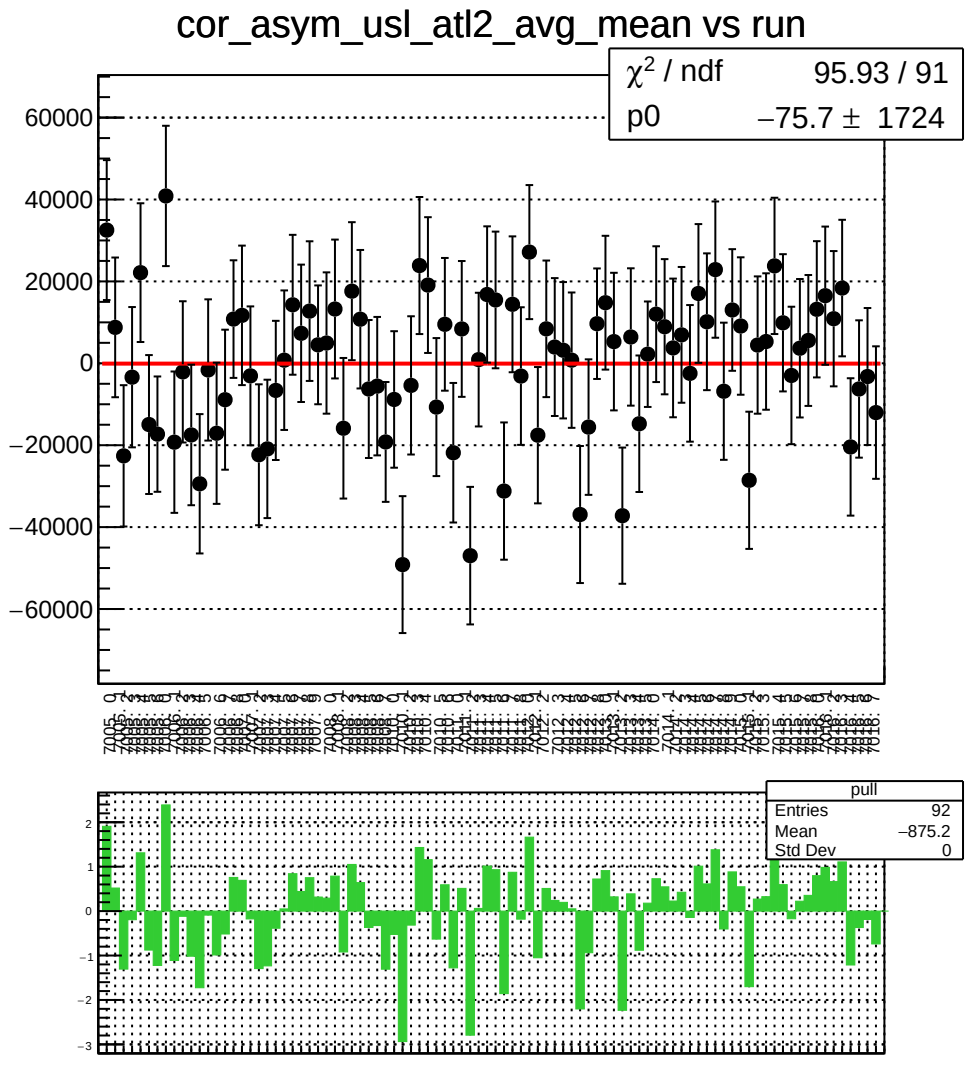

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 95.92 / 91
p0 −75.44 ± 1724
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −875
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.003345
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

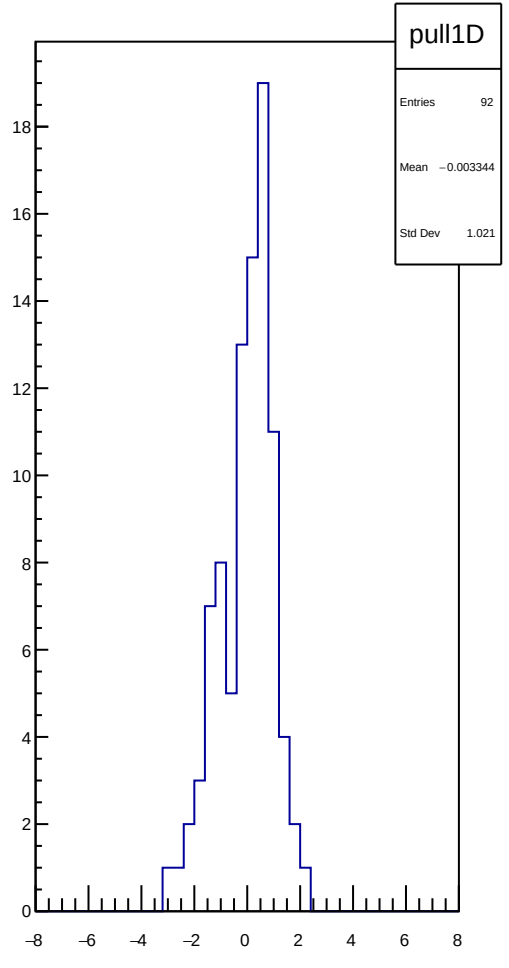

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 287.9 / 91
p0 1596 ± 1.219
1660
1640
1620
1600
1580
1560
1540

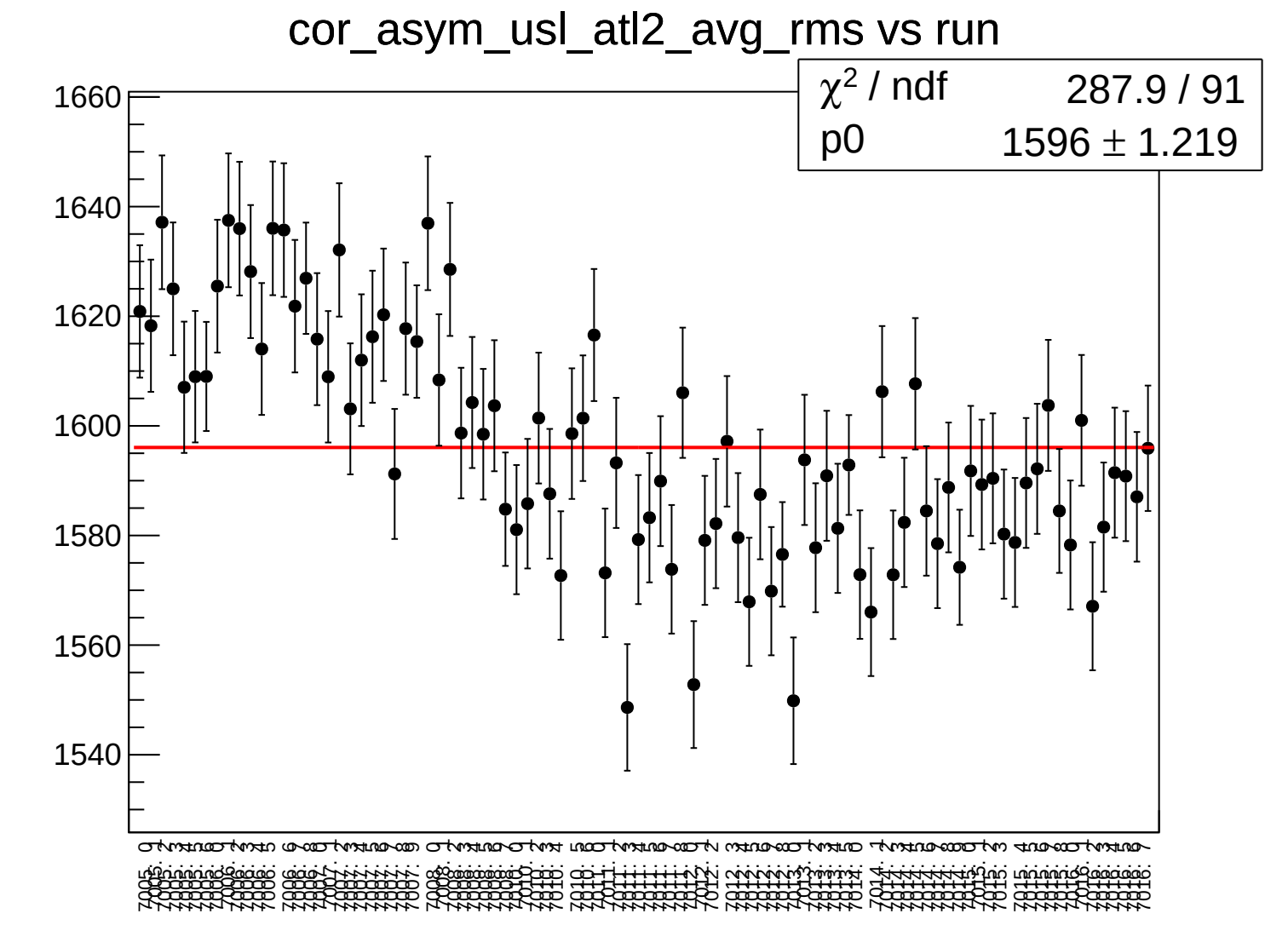

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.8 / 91
p0 −1.667e+04 ± 5950
pull
Entries 92
Mean −1060
Std Dev 0

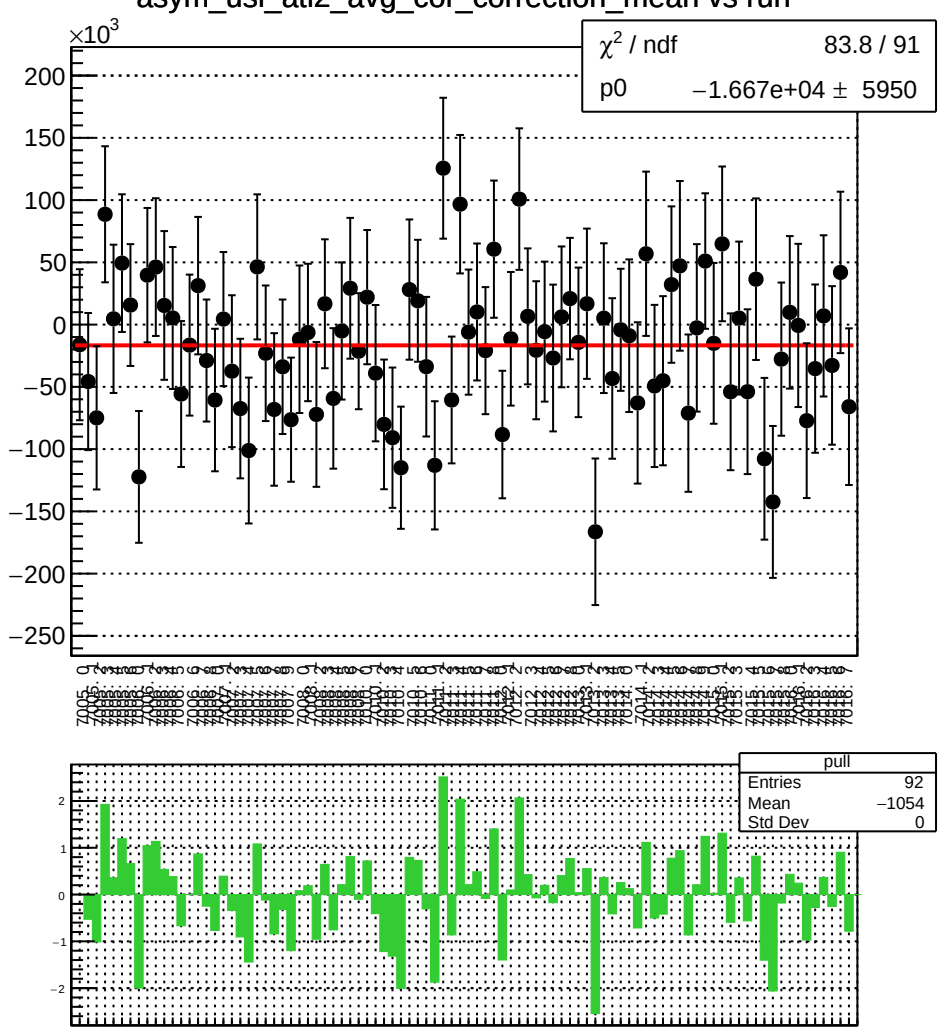

pull1D
Entries 92
Mean 0.0005165
Std Dev 0.9544

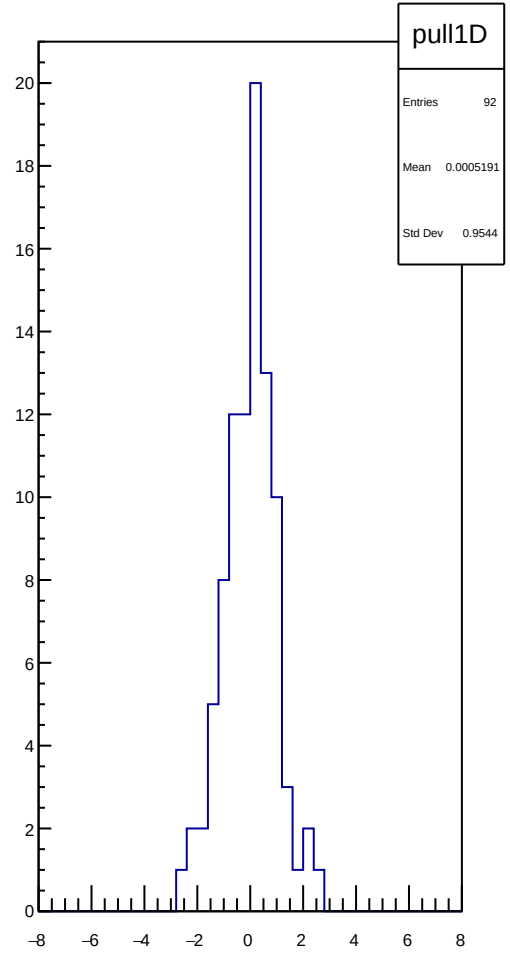

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 1.067e+04 / 91
p0 5493 ± 4.207
6500
6000
5500
5000
4500

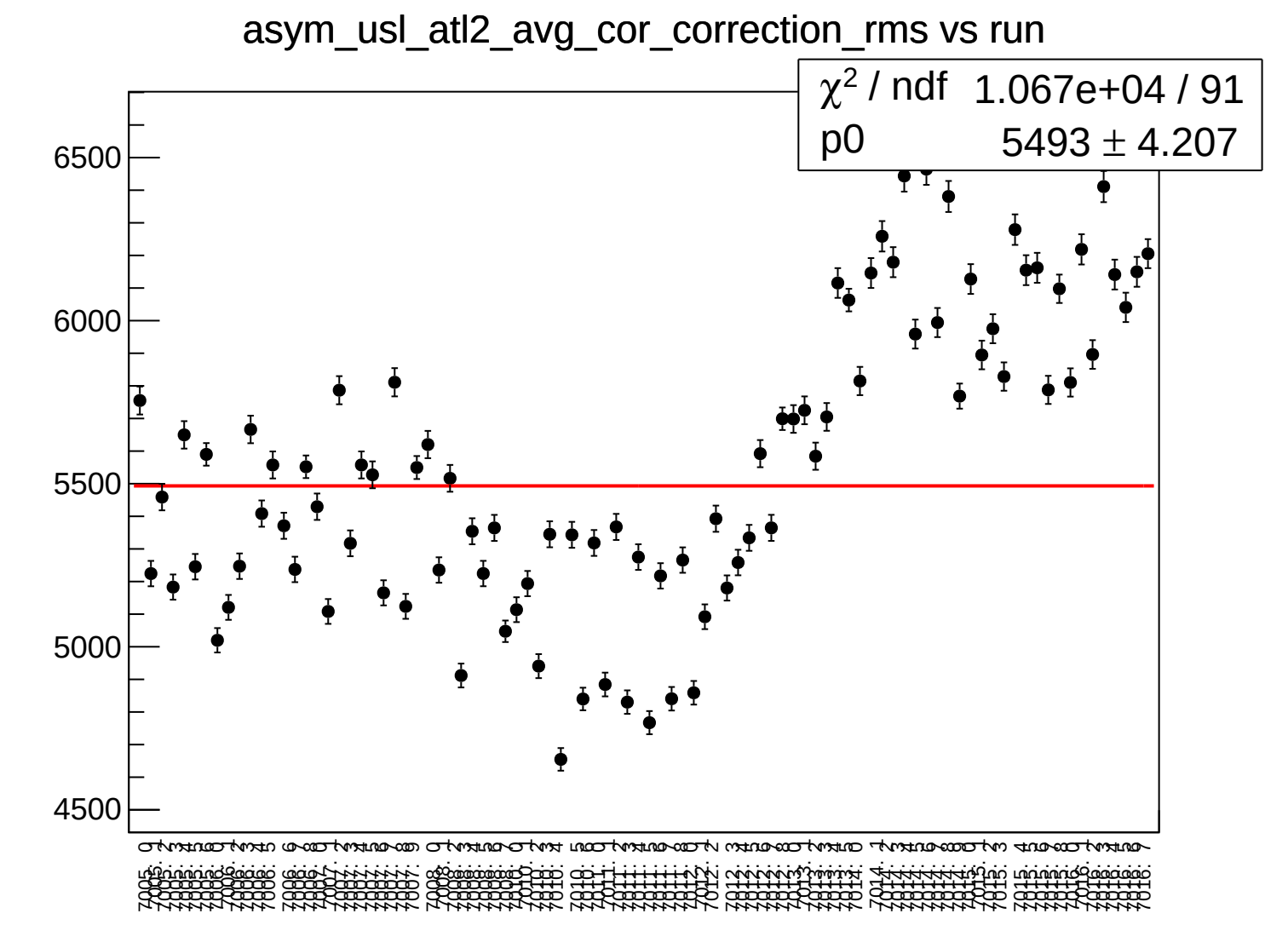

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 95.93 / 91
p0 −75.7 ± 1724
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −875.2
Std Dev 0
2
1
0
−1
−2
−3

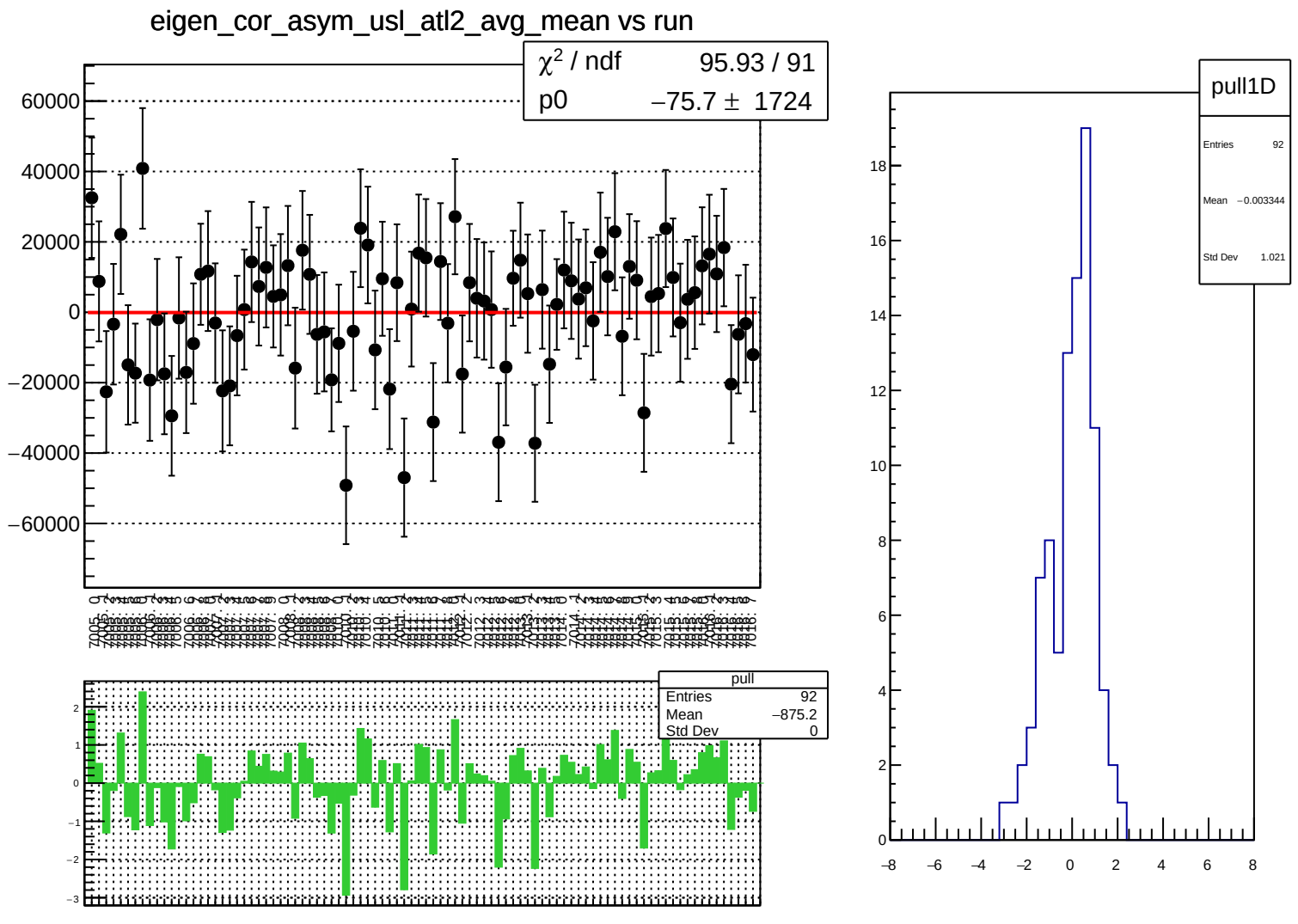

pull1D
Entries 92
Mean −0.003344
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

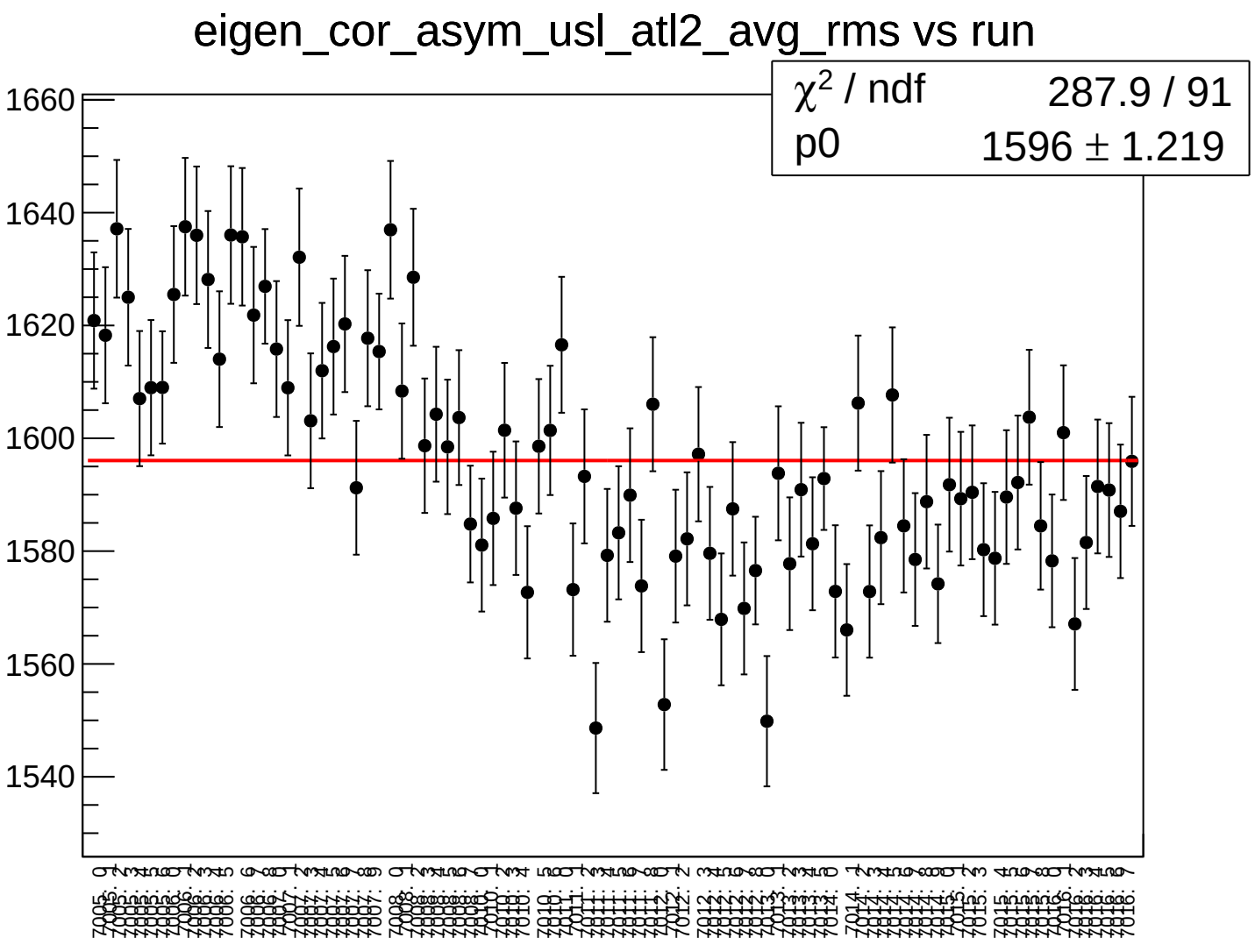

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 287.9 / 91
p0 1596 ± 1.219
1660
1640
1620
1600
1580
1560
1540

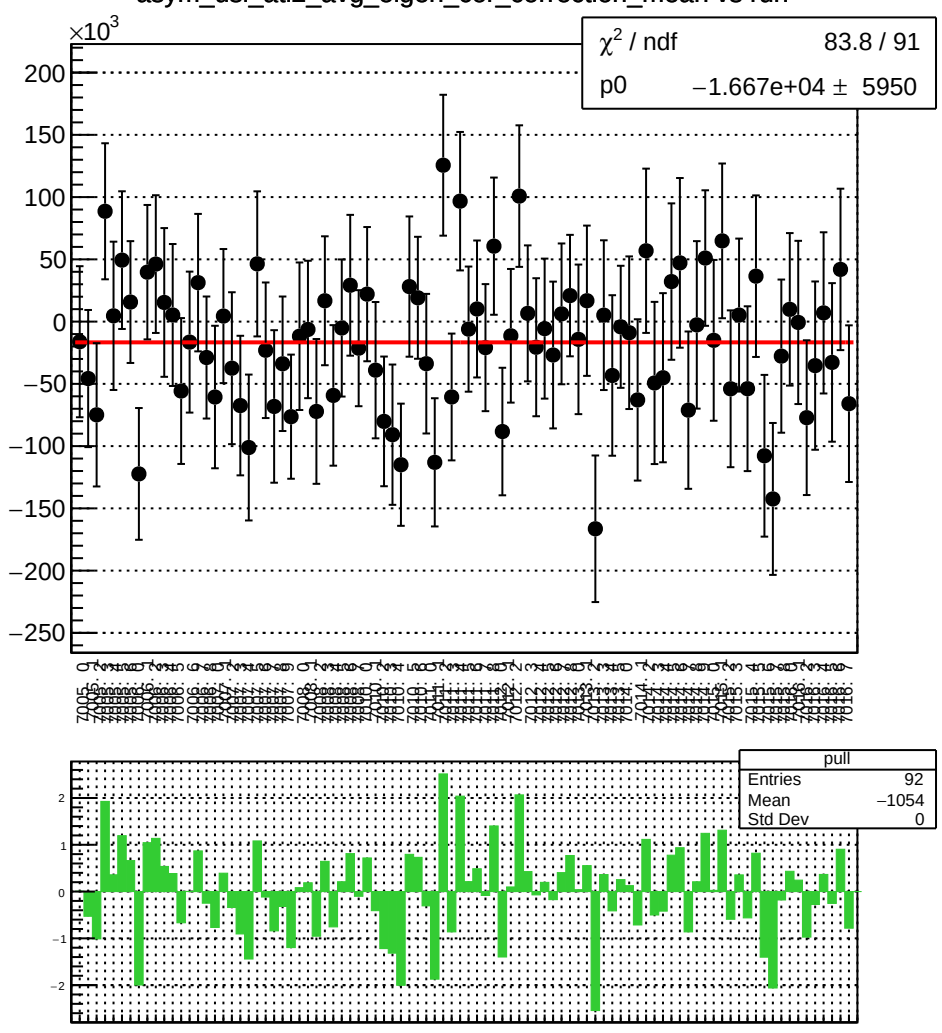

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.8 / 91
p0 −1.667e+04 ± 5950
pull
Entries 92
Mean −1054
Std Dev 0

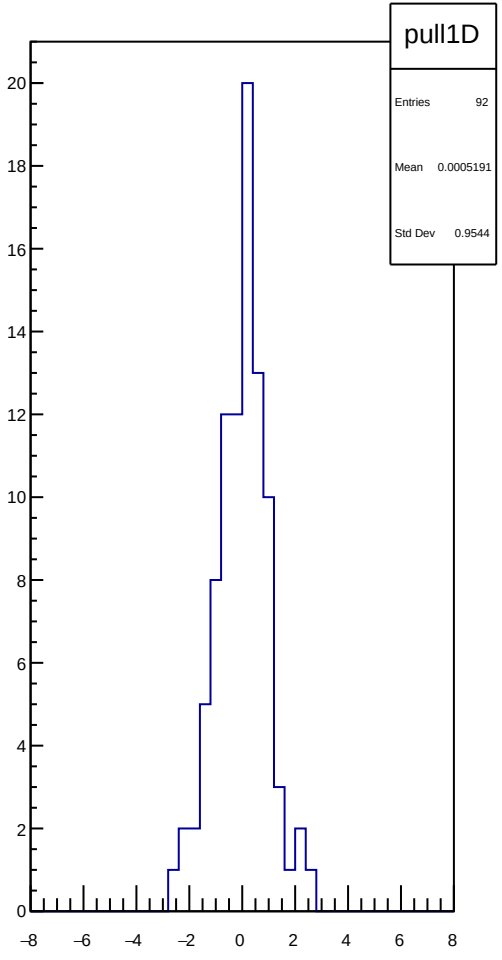

pull1D
Entries 92
Mean 0.0005191
Std Dev 0.9544

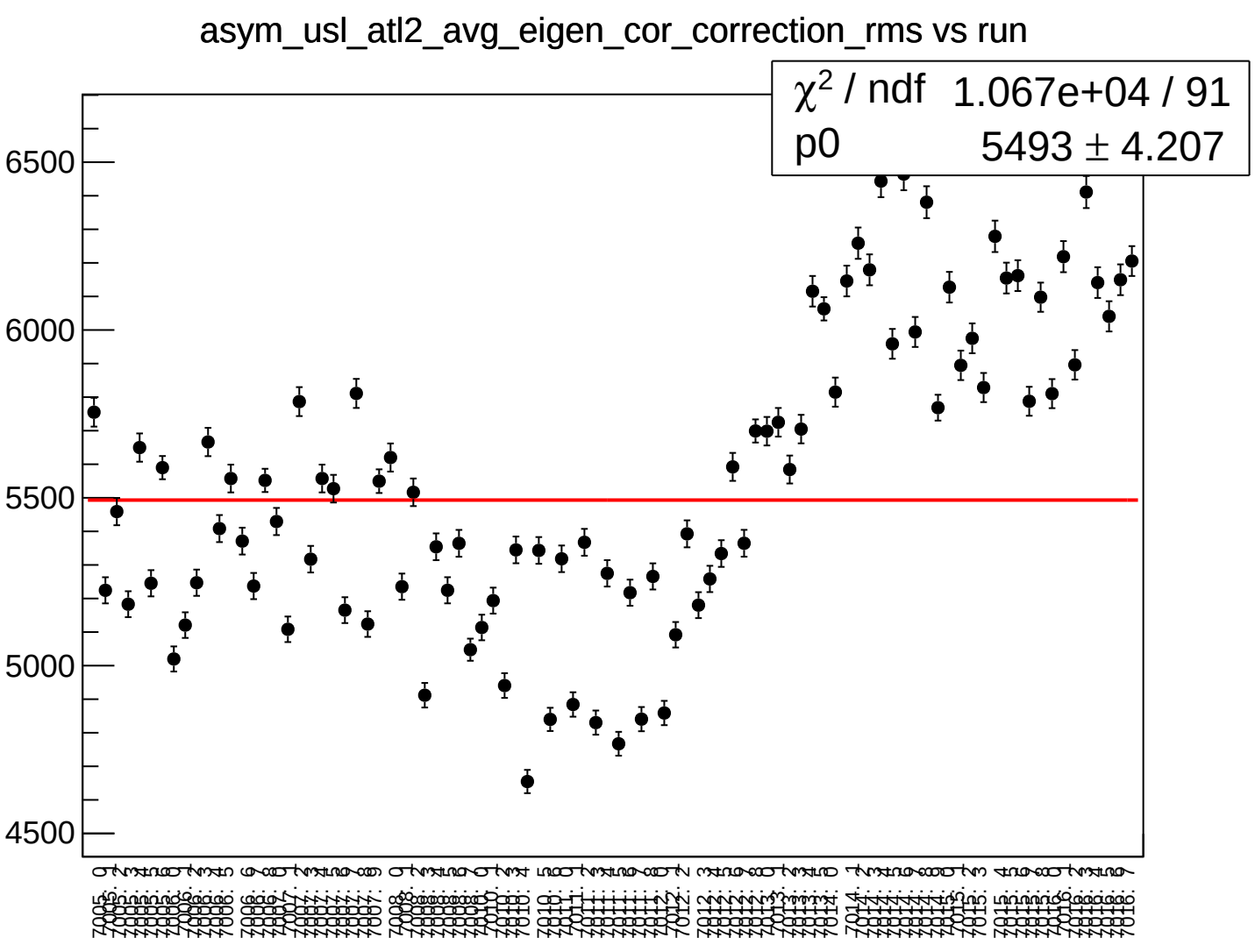

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 1.067e+04 / 91
p0 5493 ± 4.207
6500
6000
5500
5000
4500

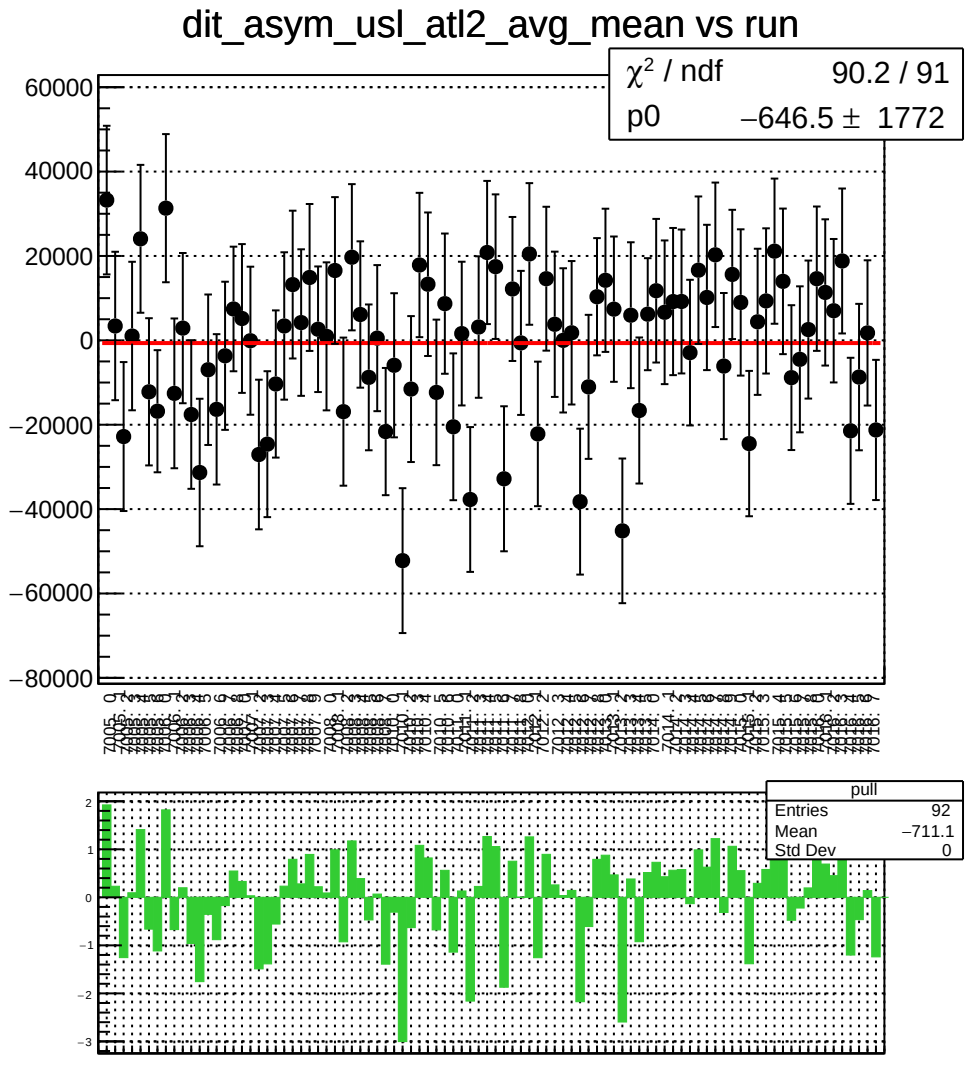

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 95.93 / 91
p0 −75.7 ± 1724
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −875.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.003344
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

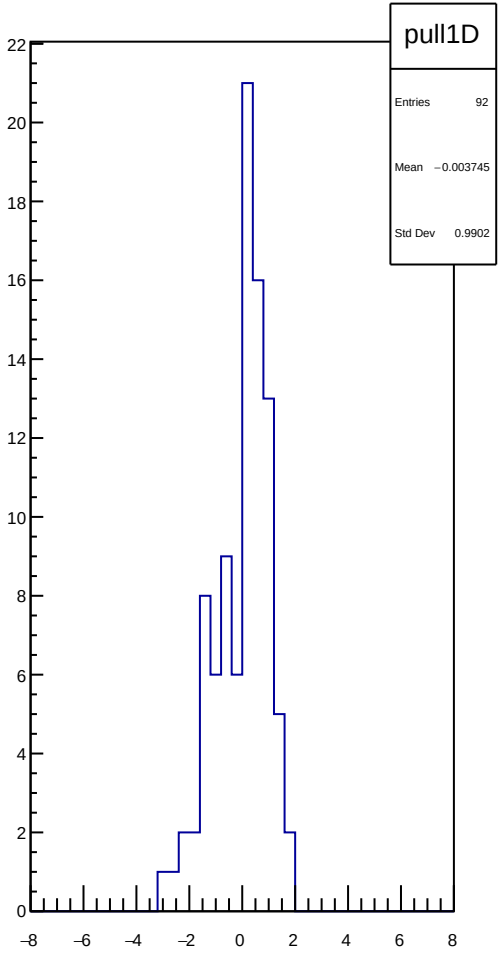

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 287.9 / 91
p0 1596 ± 1.219
1660
1640
1620
1600
1580
1560
1540

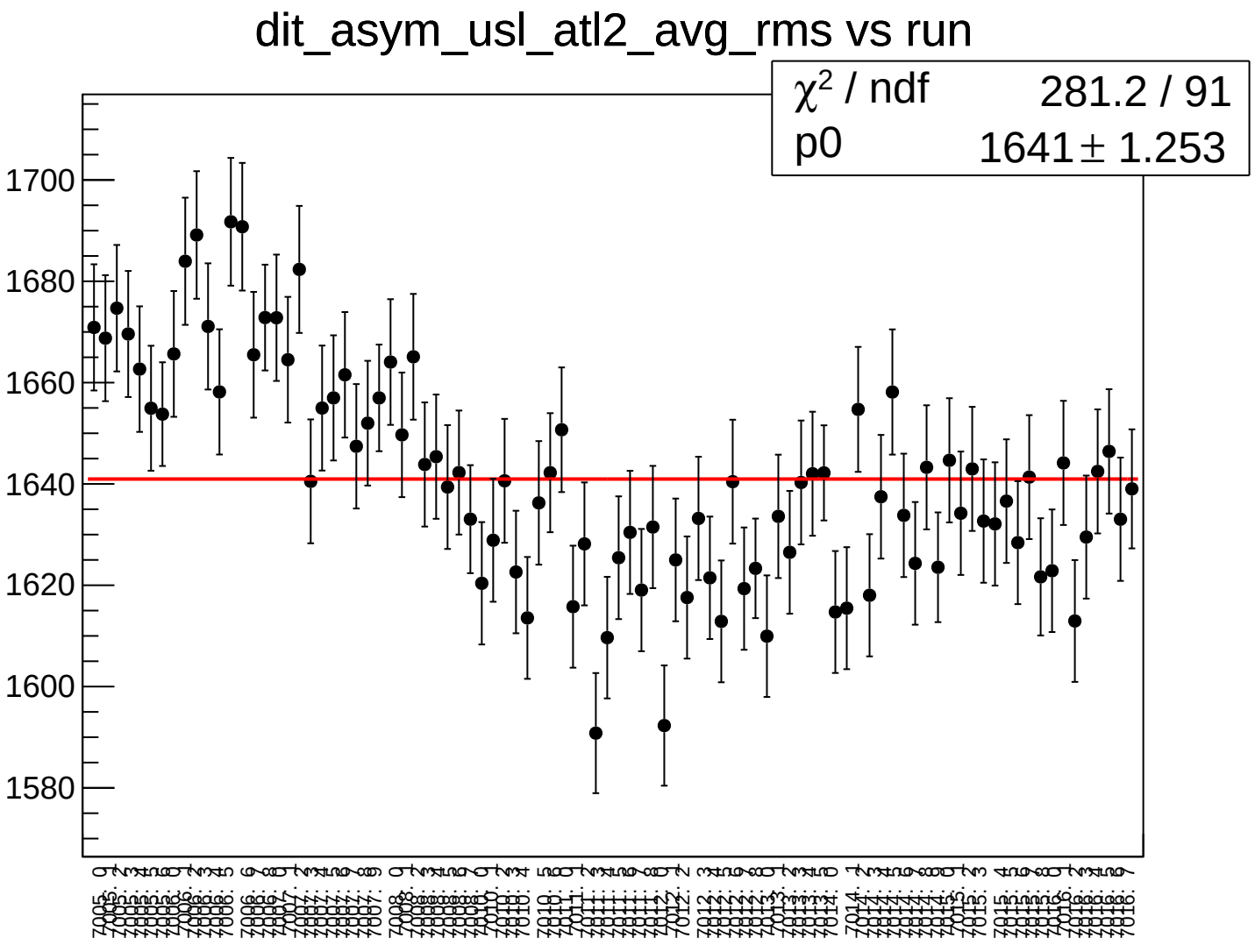

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.8 / 91
p0 −1.667e+04 ± 5950
pull
Entries 92
Mean −1054
Std Dev 0

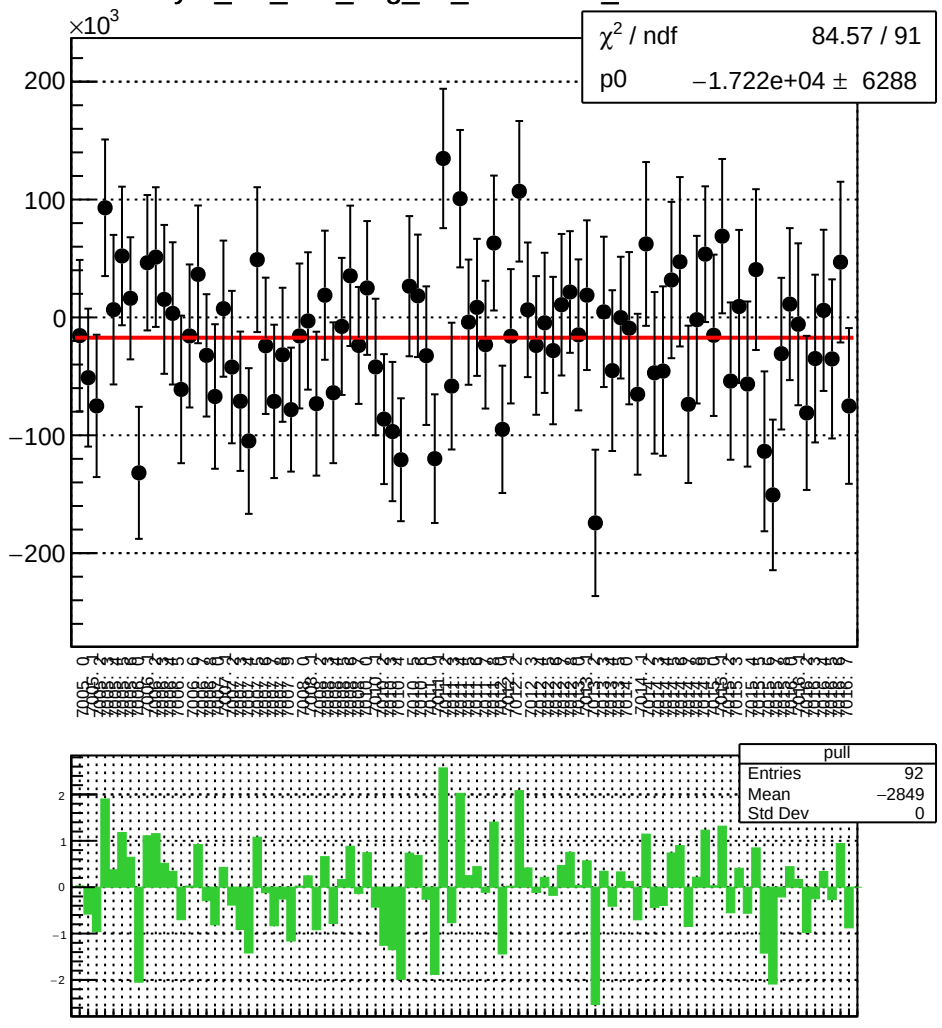

pull1D
Entries 92
Mean 0.0005191
Std Dev 0.9544

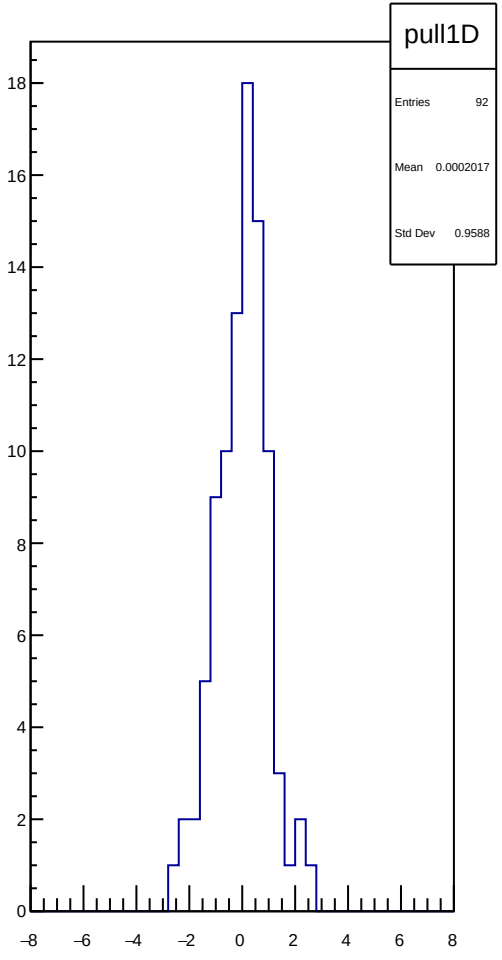

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.067e+04 / 91
p0 5493 ± 4.207
6500
6000
5500
5000
4500

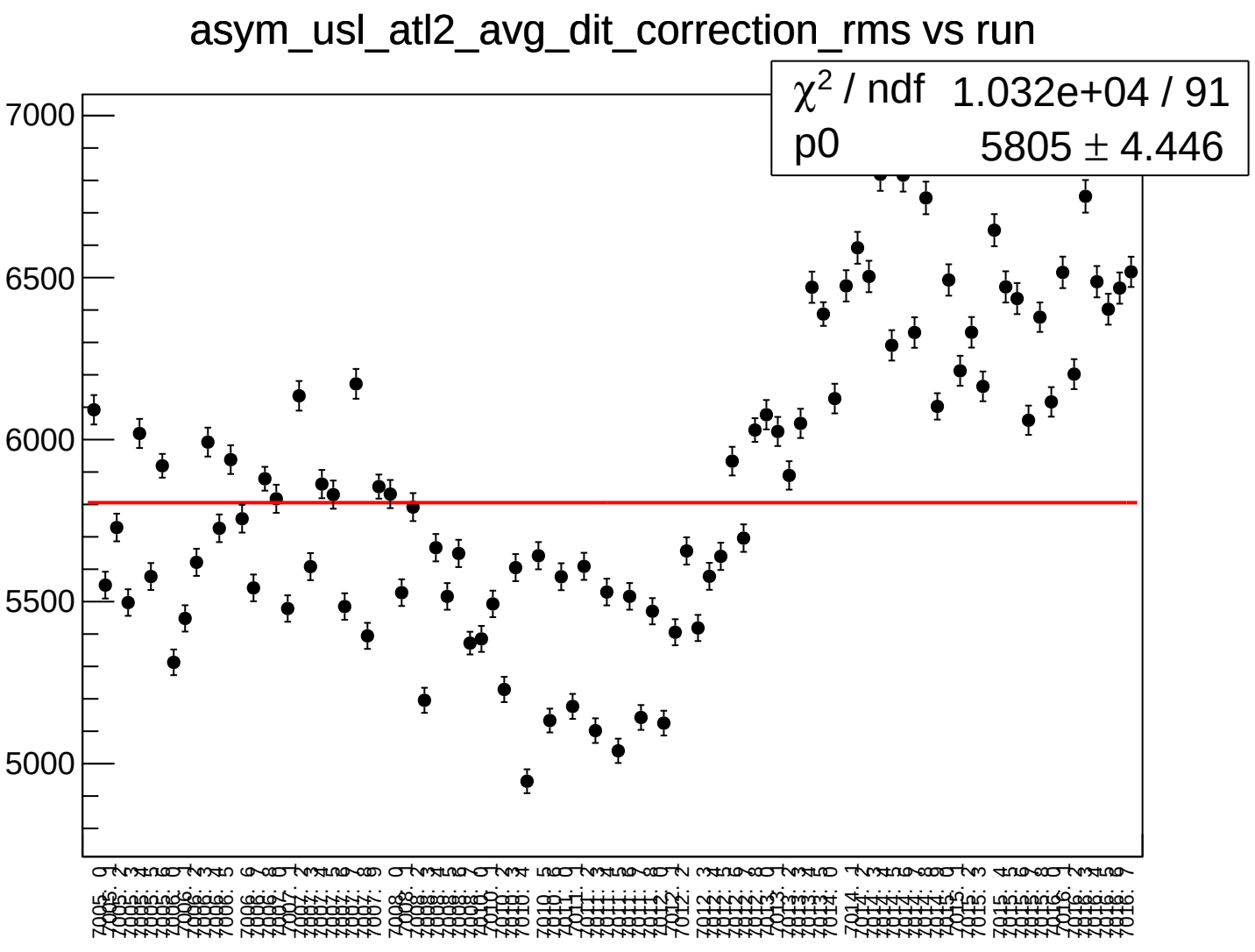

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.2 / 91
p0 −646.5 ± 1772
pull
Entries 92
Mean −711.1
Std Dev 0

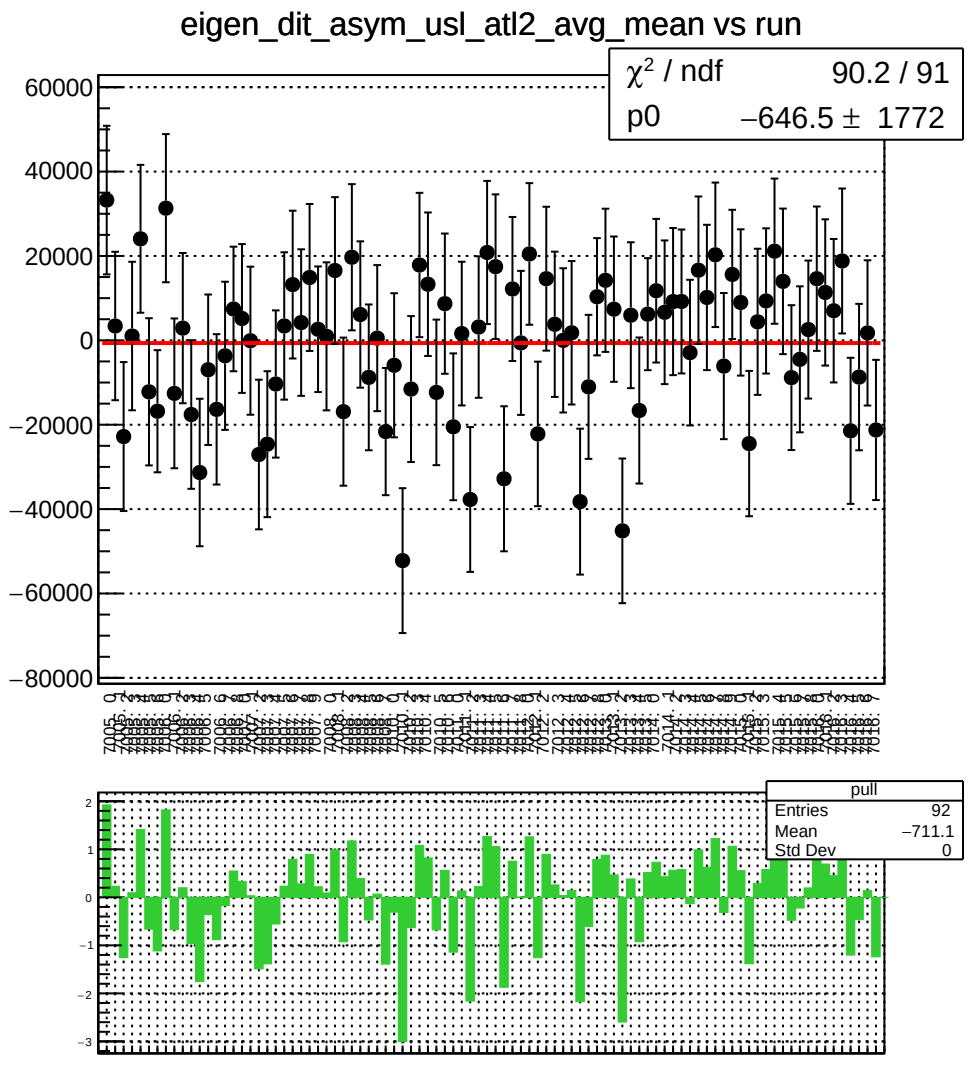

pull1D
Entries 92
Mean −0.003745
Std Dev 0.9902

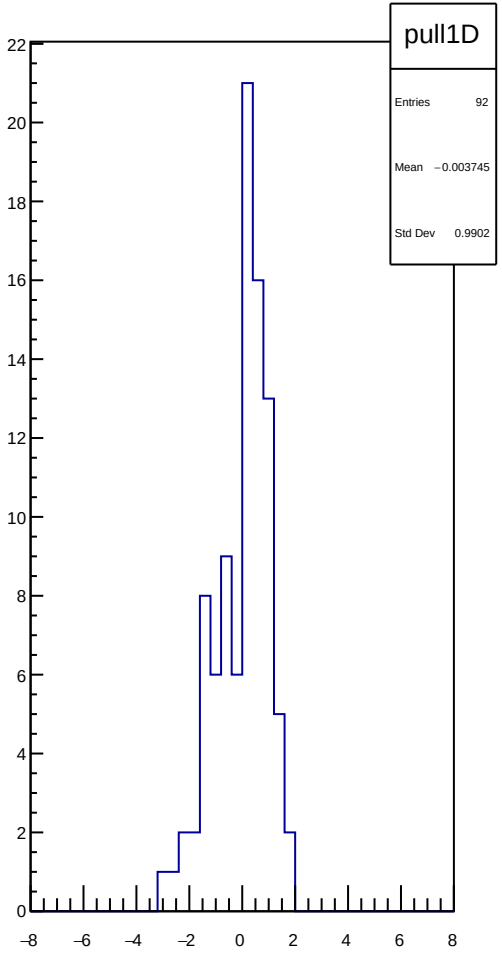

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 281.2 / 91
p0 1641 ± 1.253
1700
1680
1660
1640
1620
1600
1580

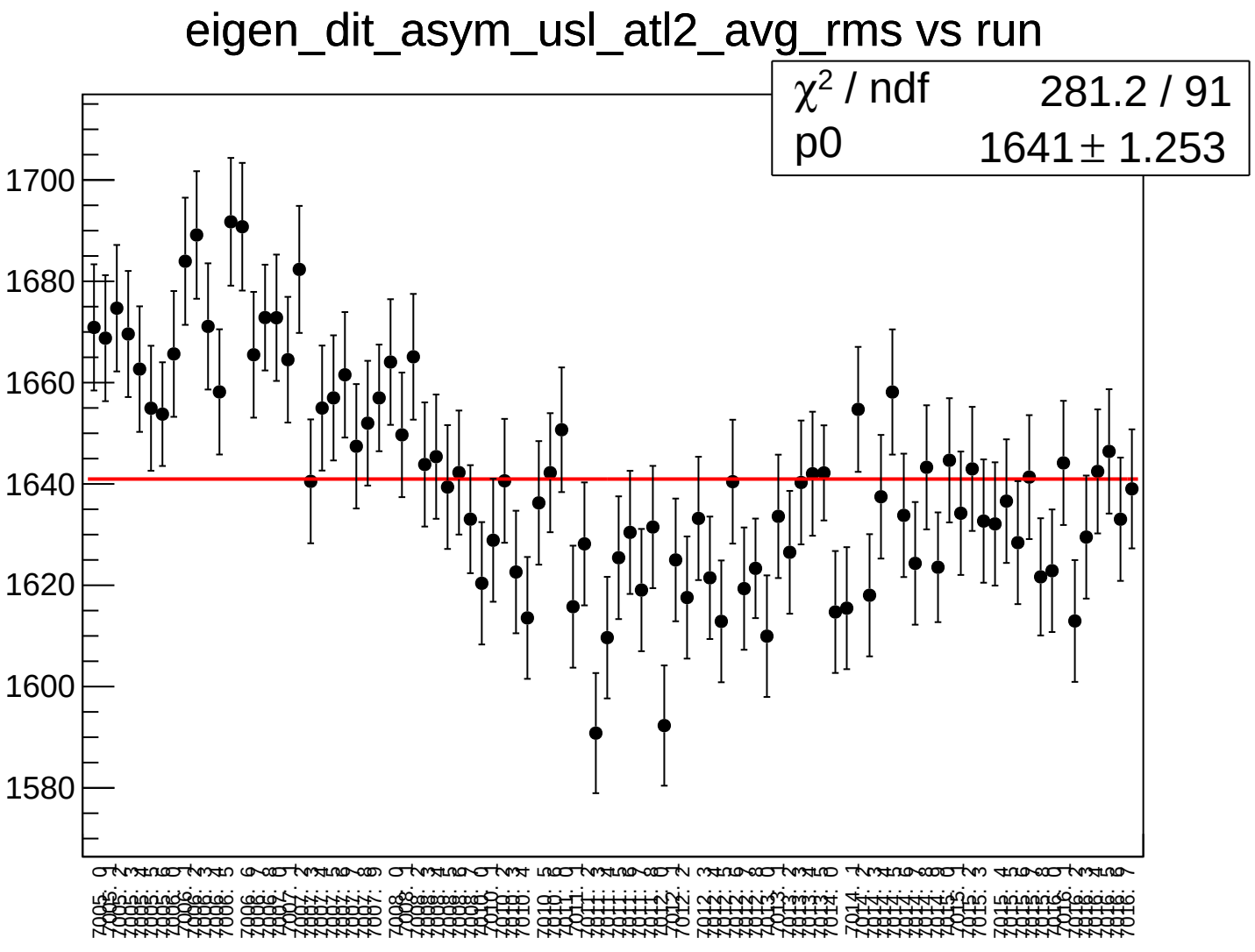

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.57 / 91
p0 −1.722e+04 ± 6288
200
100
0
−100
−200
pull
Entries 92
Mean −2849
Std Dev 0
2
1
0
−1
−2

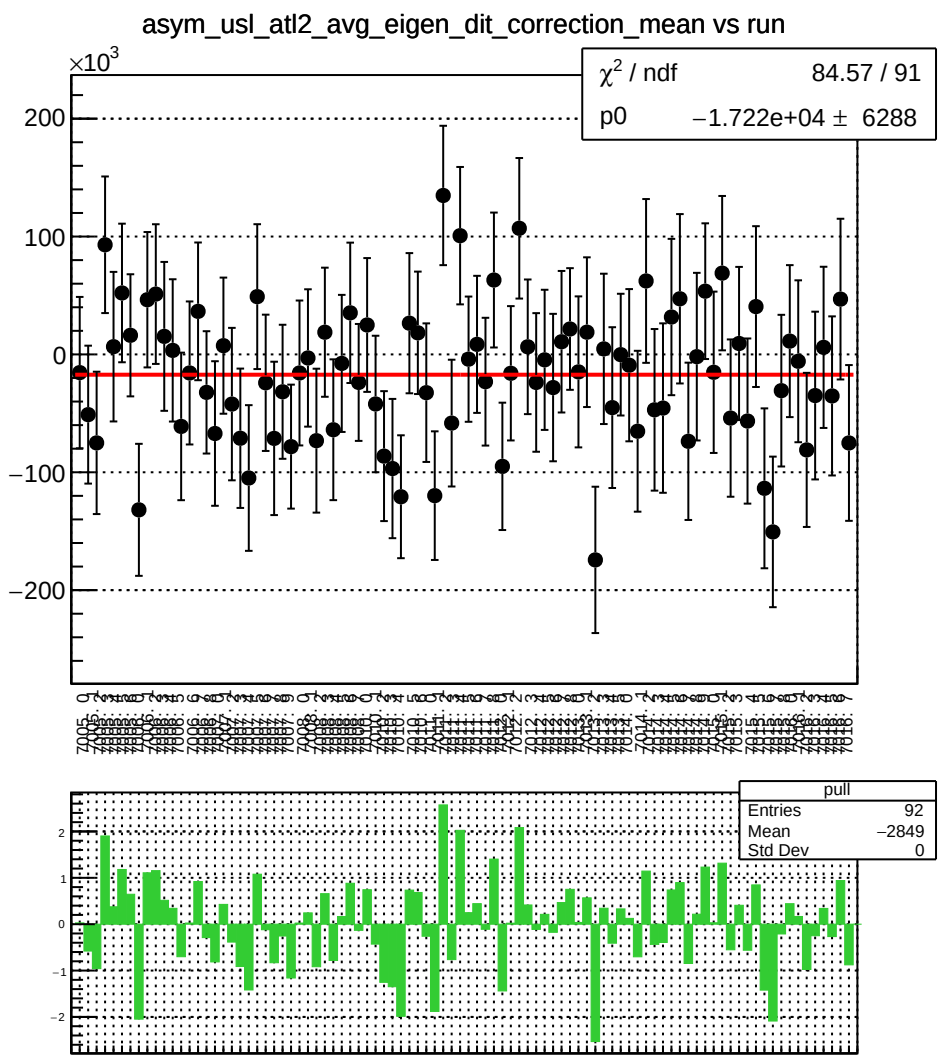

pull1D
Entries 92
Mean 0.0002017
Std Dev 0.9588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

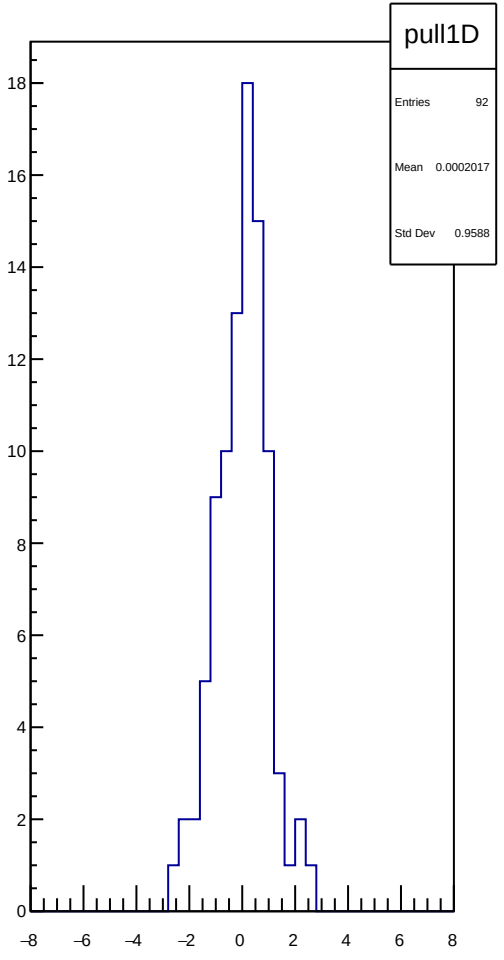

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.032e+04 / 91
p0 5805 ± 4.446
7000
6500
6000
5500
5000

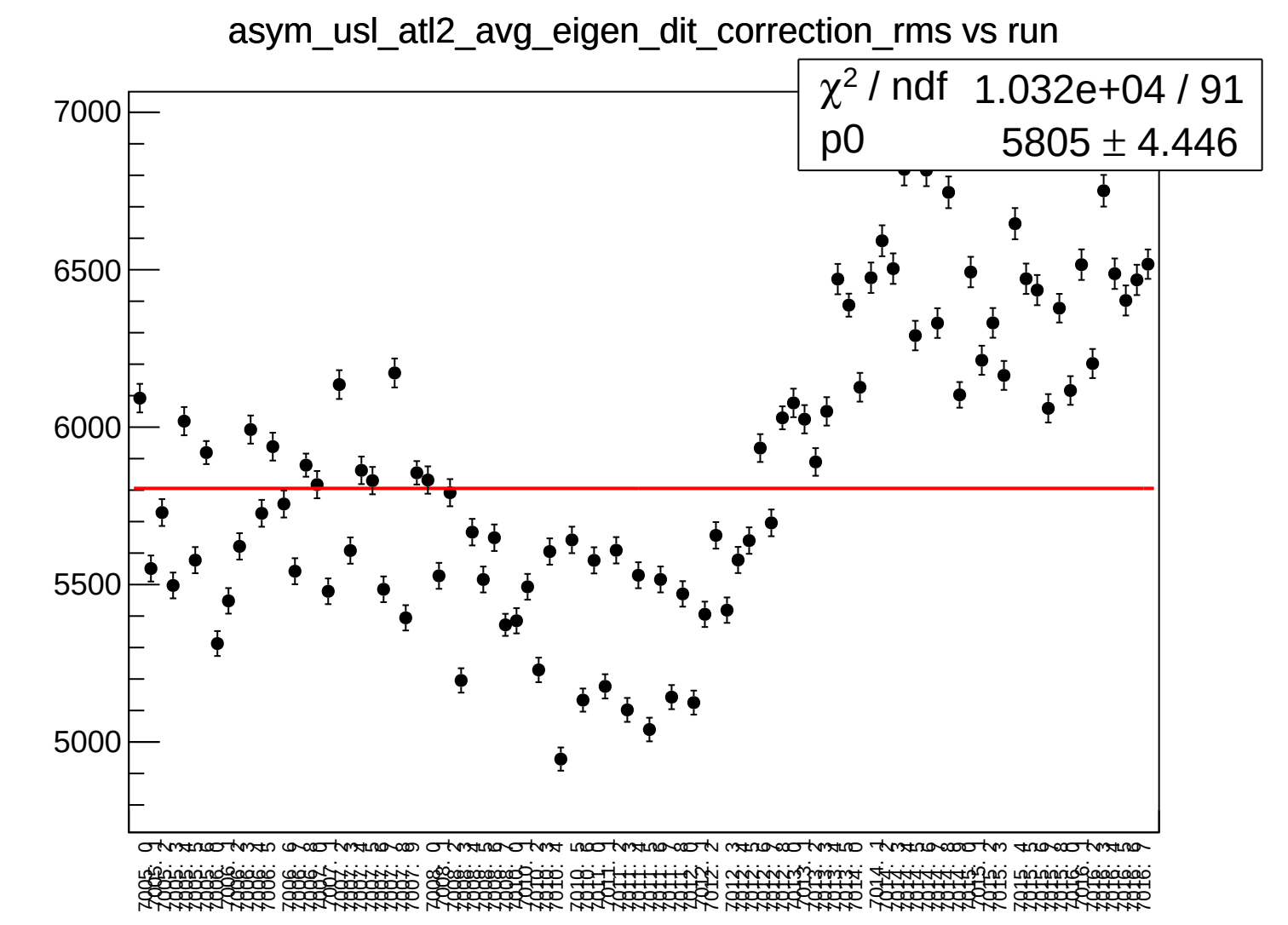

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.2 / 91
p0 −646.5 ± 1772
pull
Entries 92
Mean −711.1
Std Dev 0

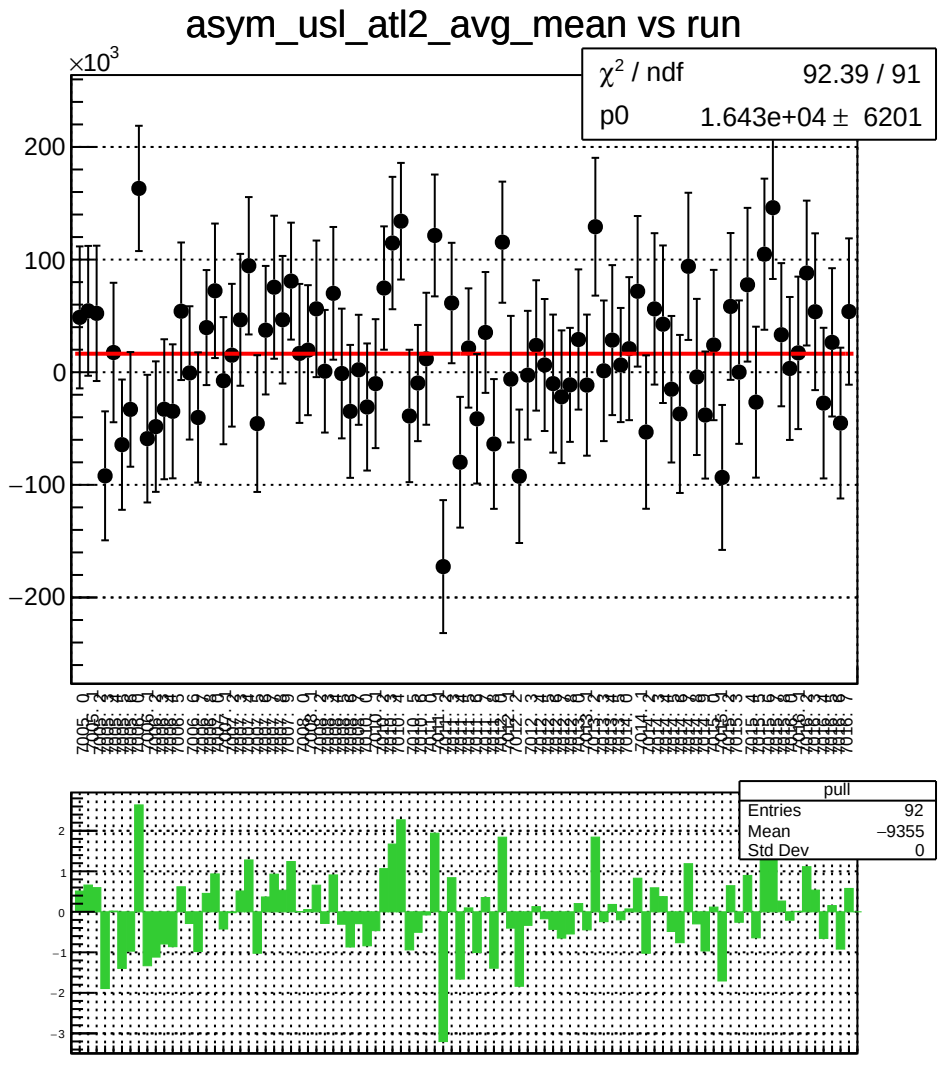

pull1D
Entries 92
Mean −0.003745
Std Dev 0.9902

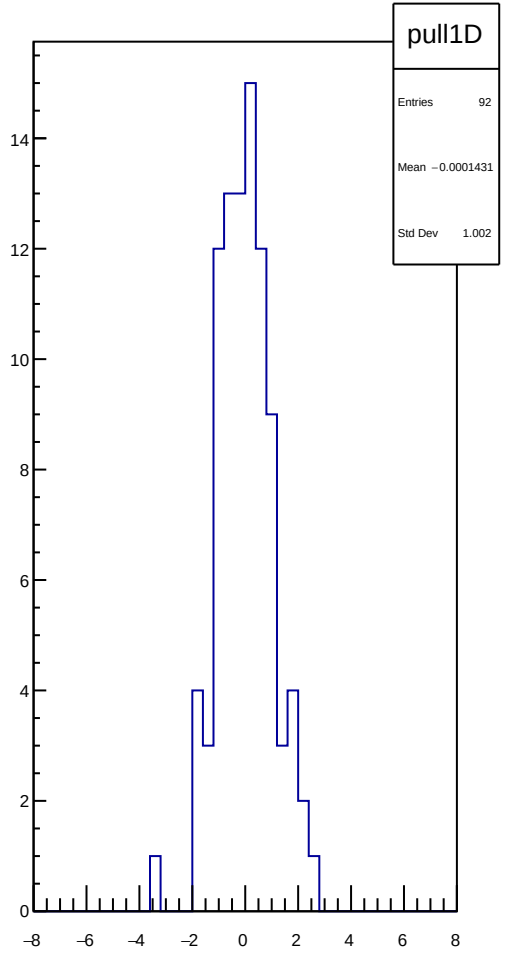

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 281.2 / 91
p0 1641 ± 1.253
1700
1680
1660
1640
1620
1600
1580

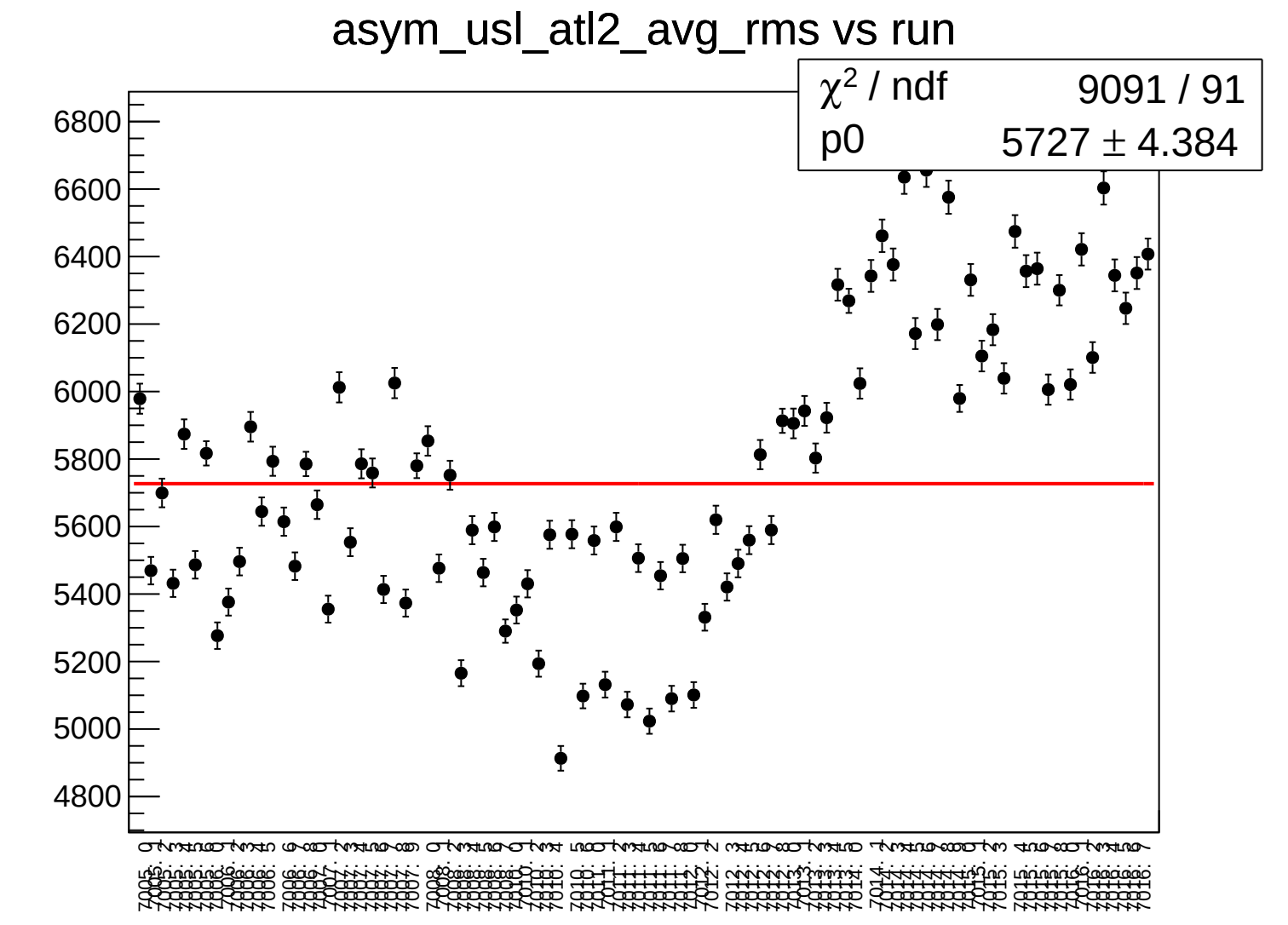

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.57 / 91
p0 −1.722e+04 ± 6288
pull
Entries 92
Mean −2849
Std Dev 0

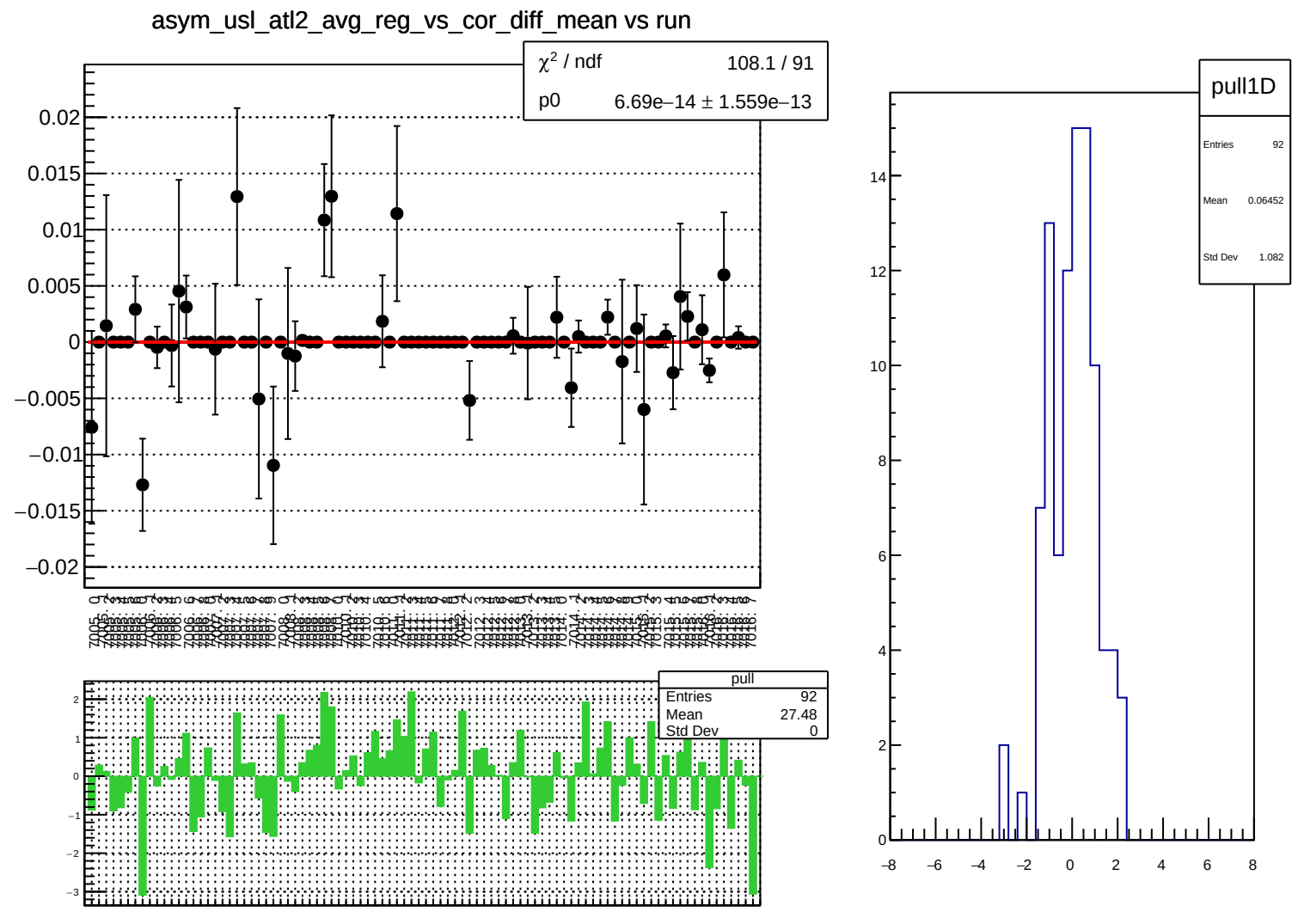

pull1D
Entries 92
Mean 0.0002017
Std Dev 0.9588

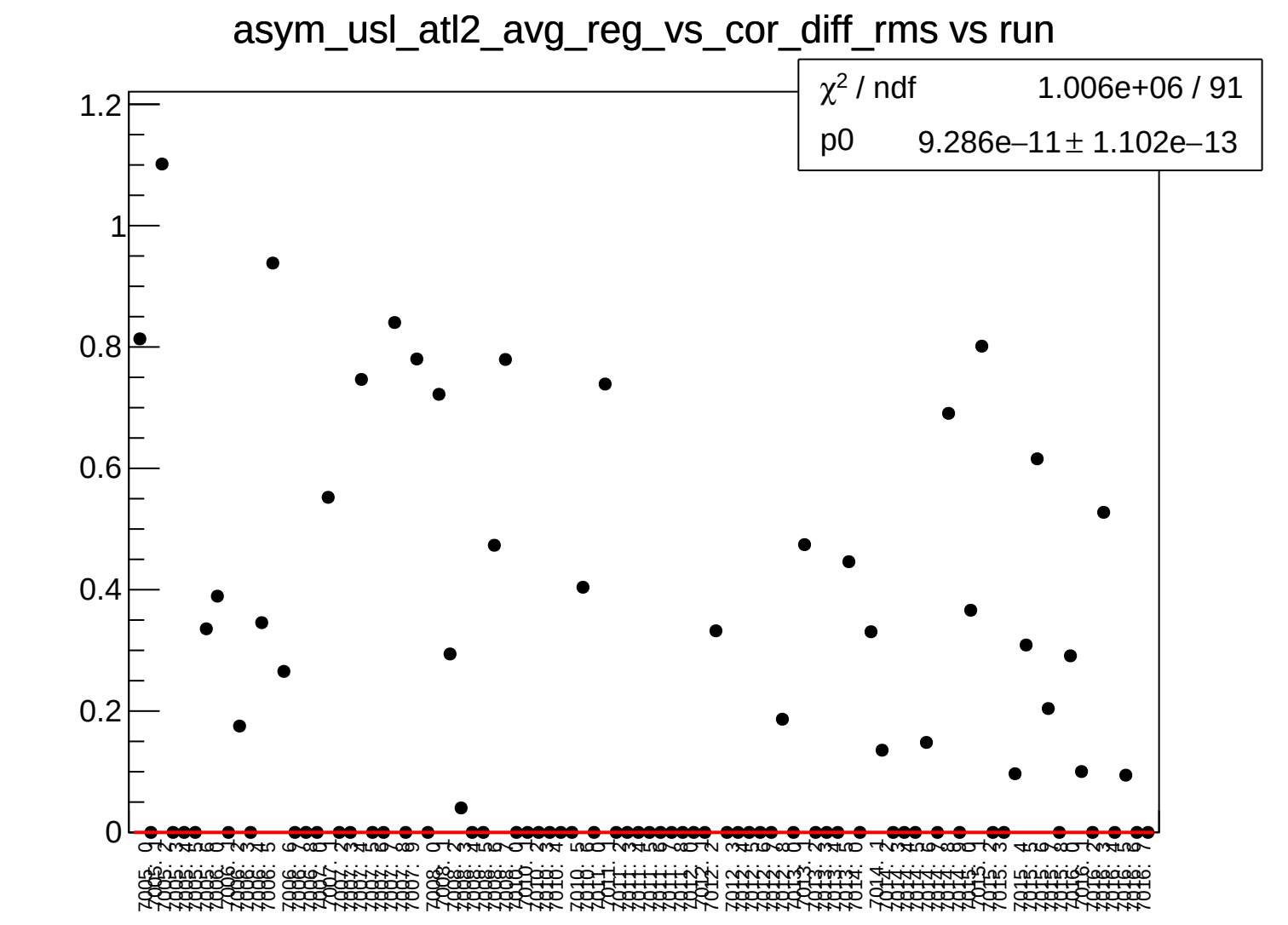

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.032e+04 / 91
p0 5805 ± 4.446
7000
6500
6000
5500
5000

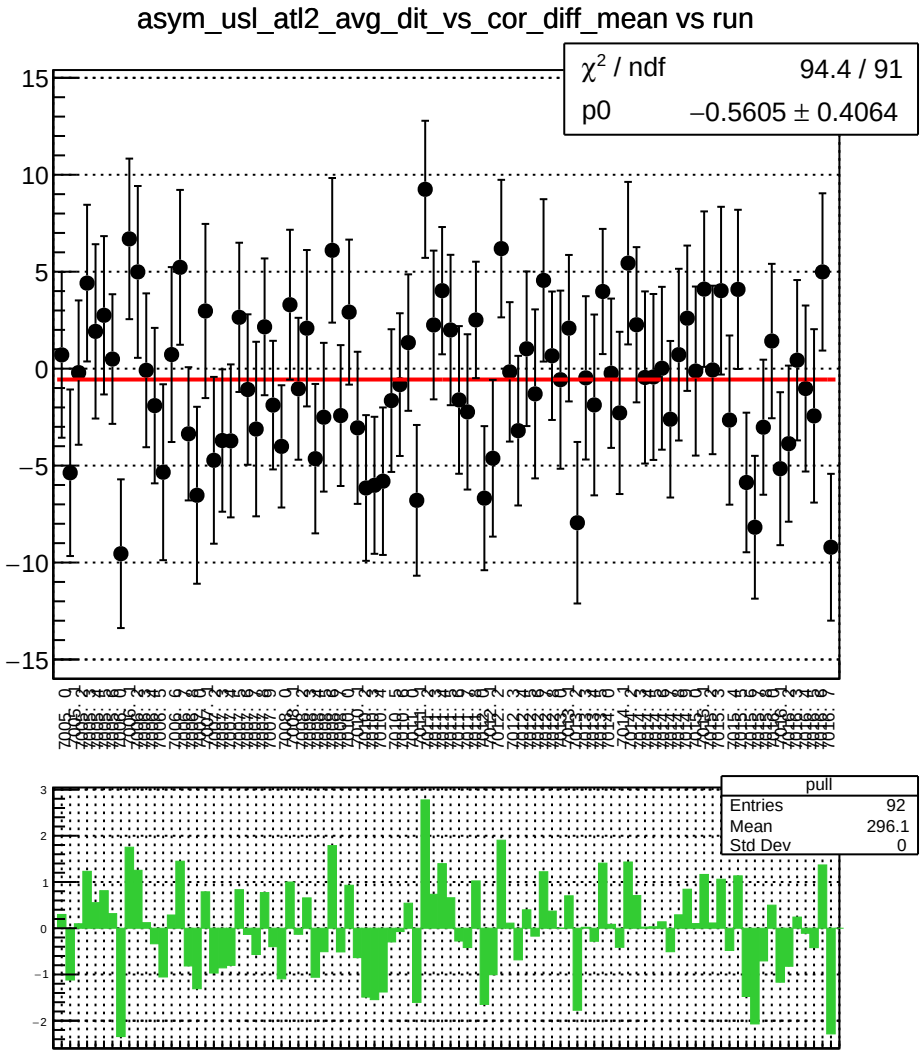

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 92.39 / 91
p0 1.643e+04 ± 6201
200
100
0
−100
−200
pull
Entries 92
Mean −9355
Std Dev 0
2
1
0
−1
−2
−3

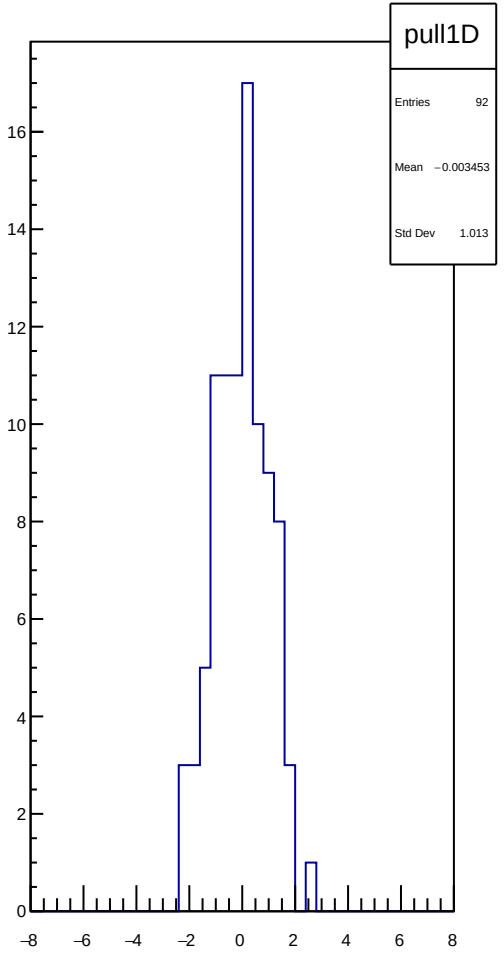

pull1D
Entries 92
Mean −0.0001431
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

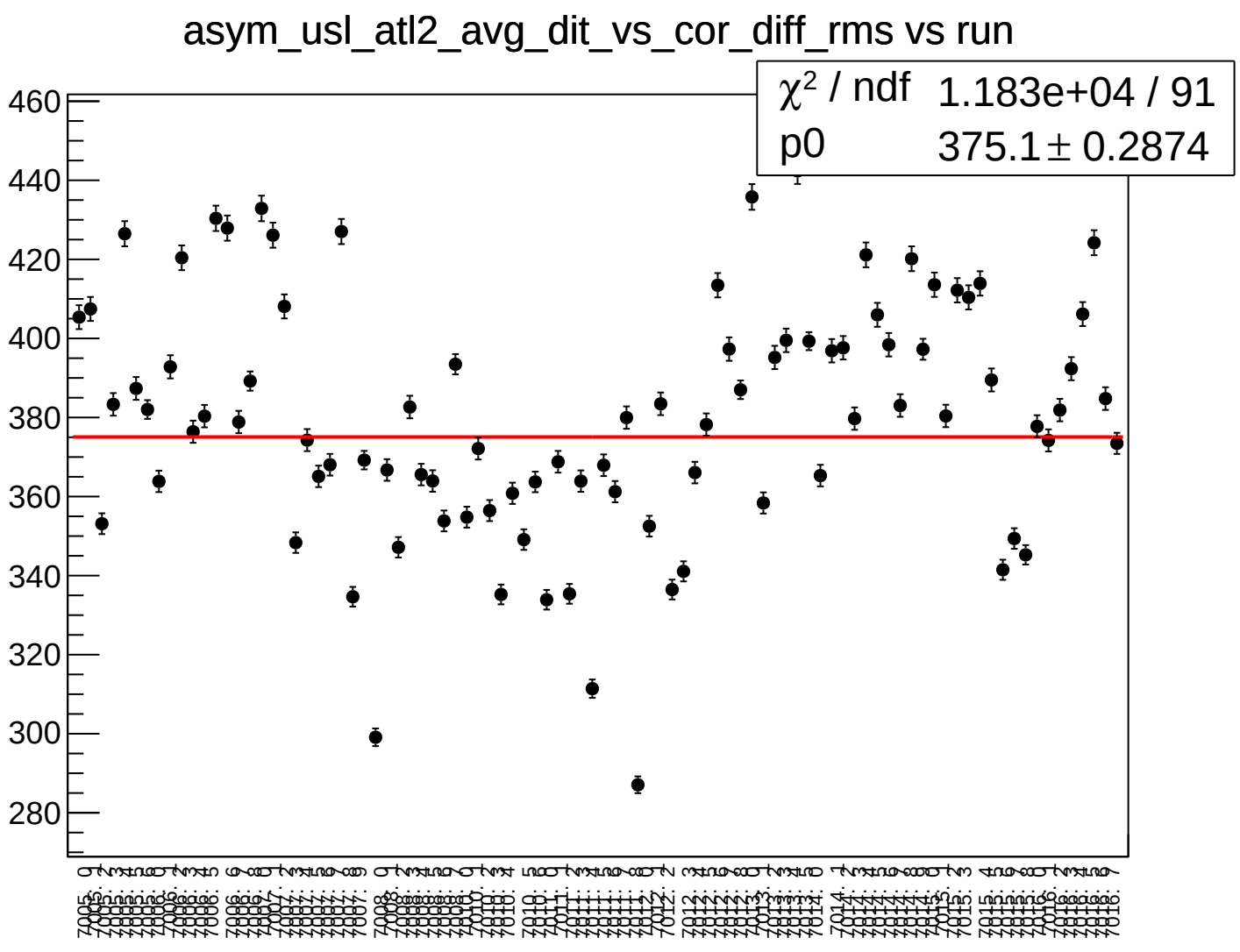

asym_usl_atl2_avg_rms vs run
χ² / ndf 9091 / 91
p0 5727 ± 4.384
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

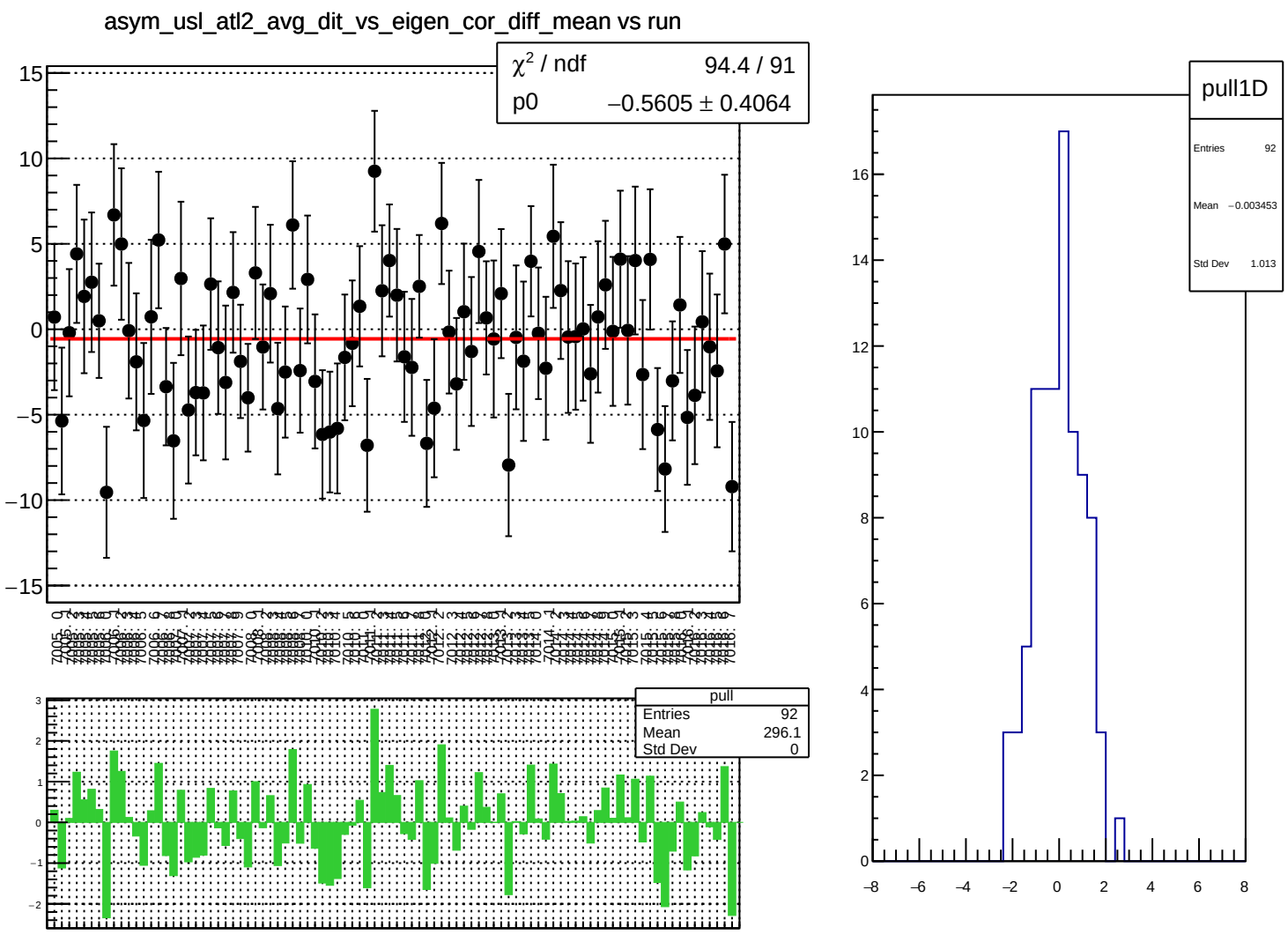

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 91
p0 6.69e−14 ± 1.559e−13
pull
Entries 92
Mean 27.48
Std Dev 0
pull1D
Entries 92
Mean 0.06452
Std Dev 1.082

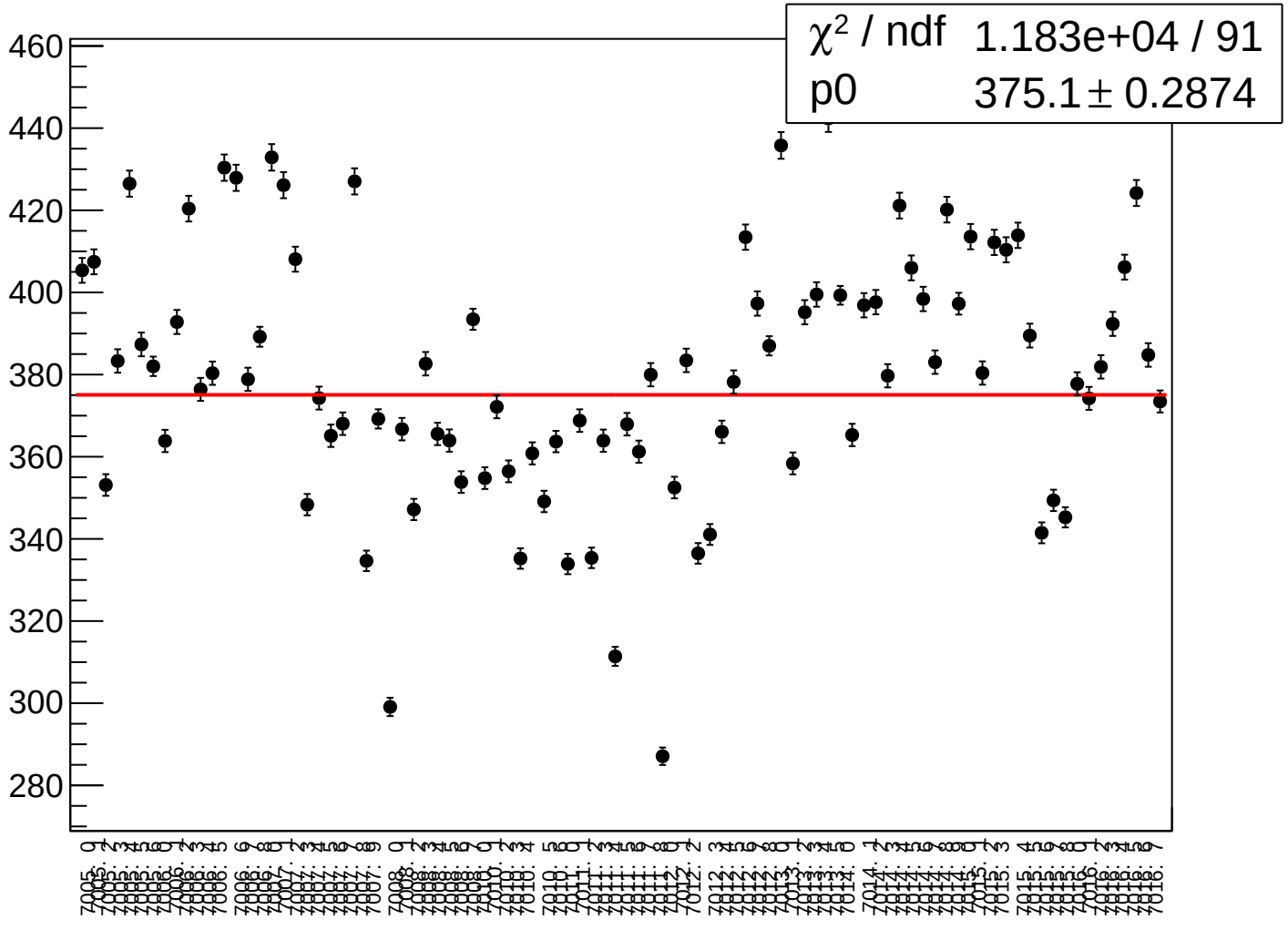

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.006e+06 / 91
p0 9.286e−11 ± 1.102e−13
1.2
1
0.8
0.6
0.4
0.2
0

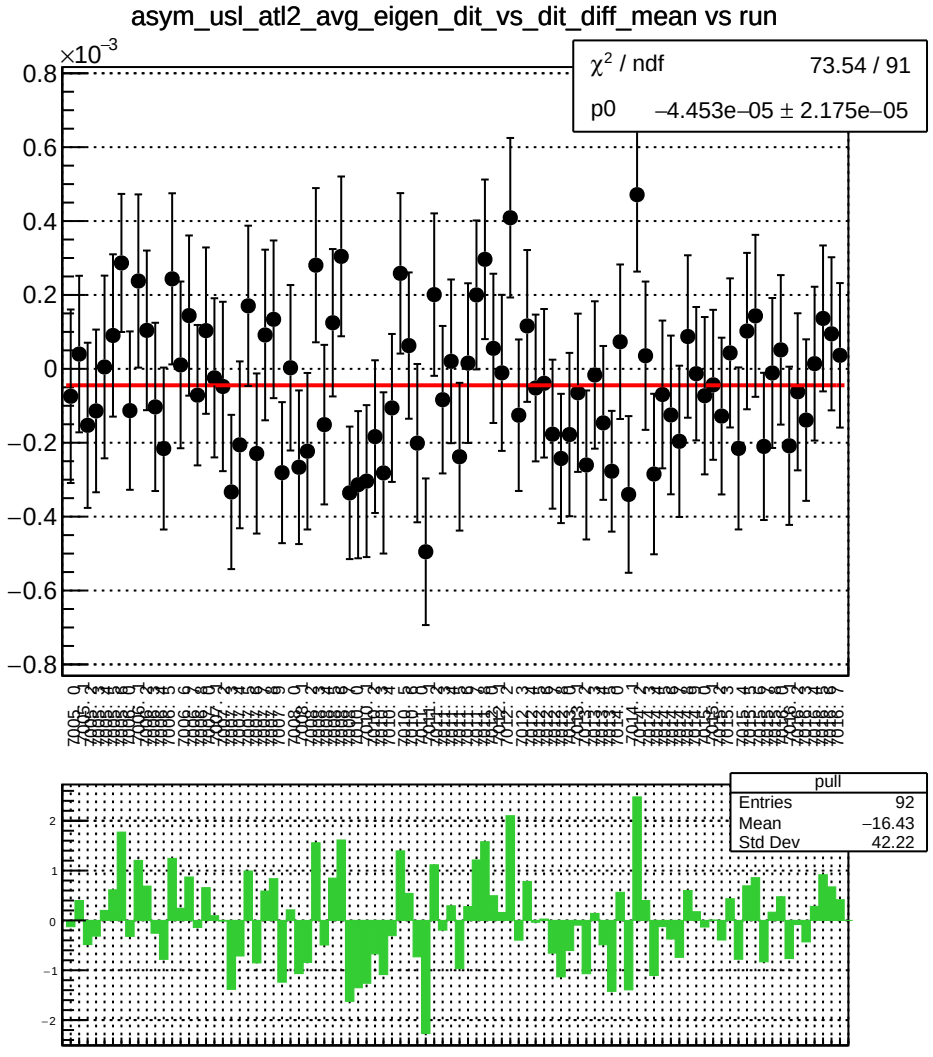

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.4 / 91
p0 −0.5605 ± 0.4064
pull
Entries 92
Mean 296.1
Std Dev 0

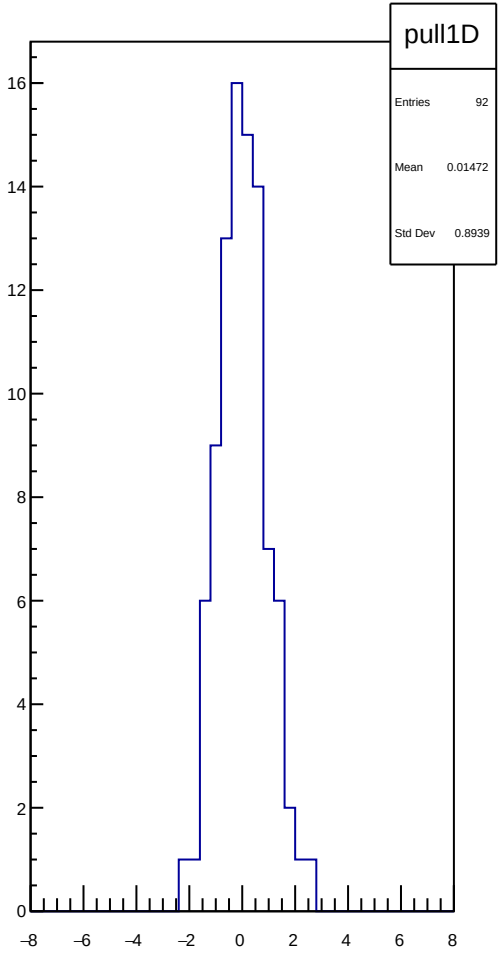

pull1D
Entries 92
Mean −0.003453
Std Dev 1.013

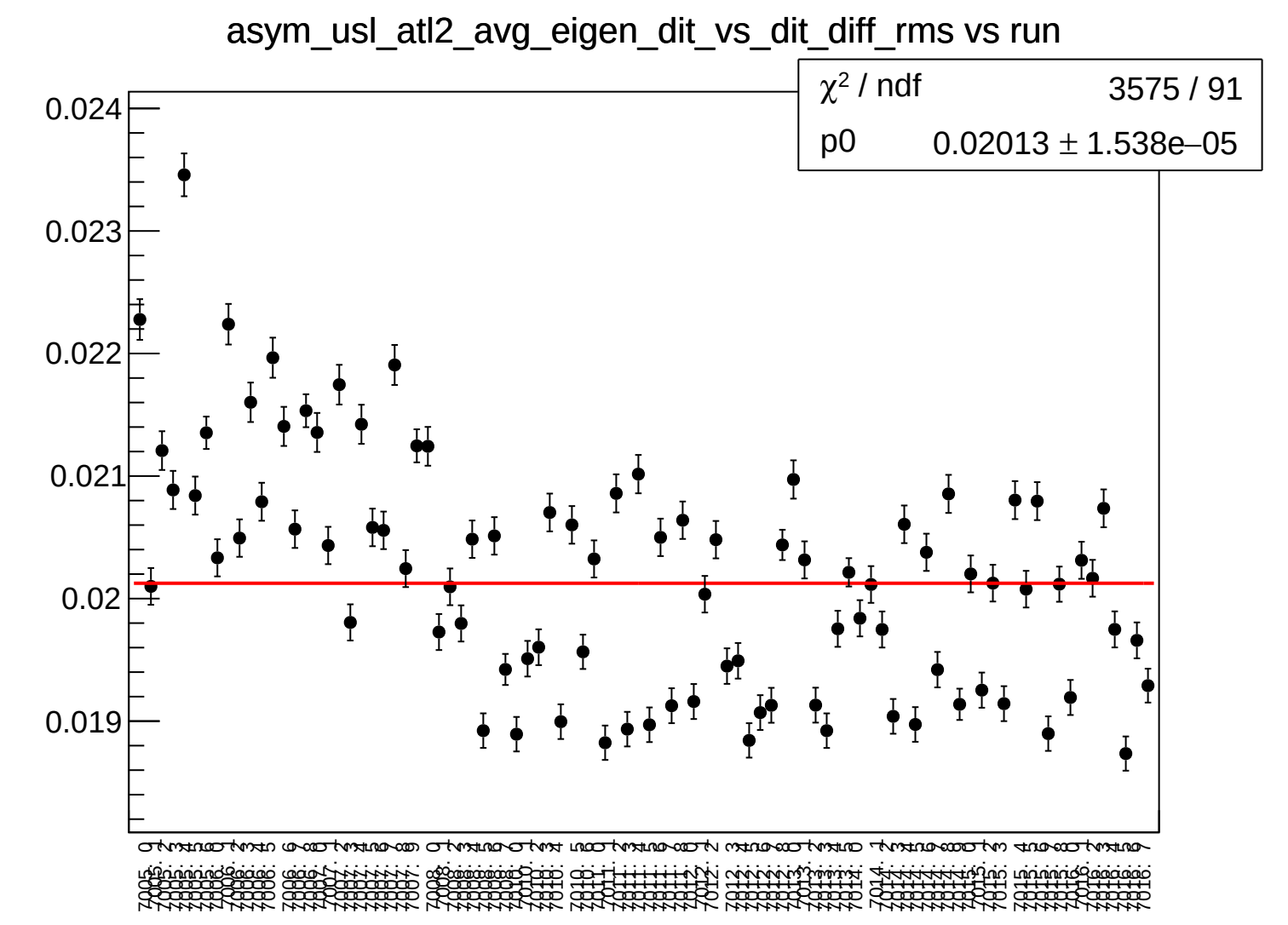

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.183e+04 / 91
p0 375.1 ± 0.2874
460
440
420
400
380
360
340
320
300
280

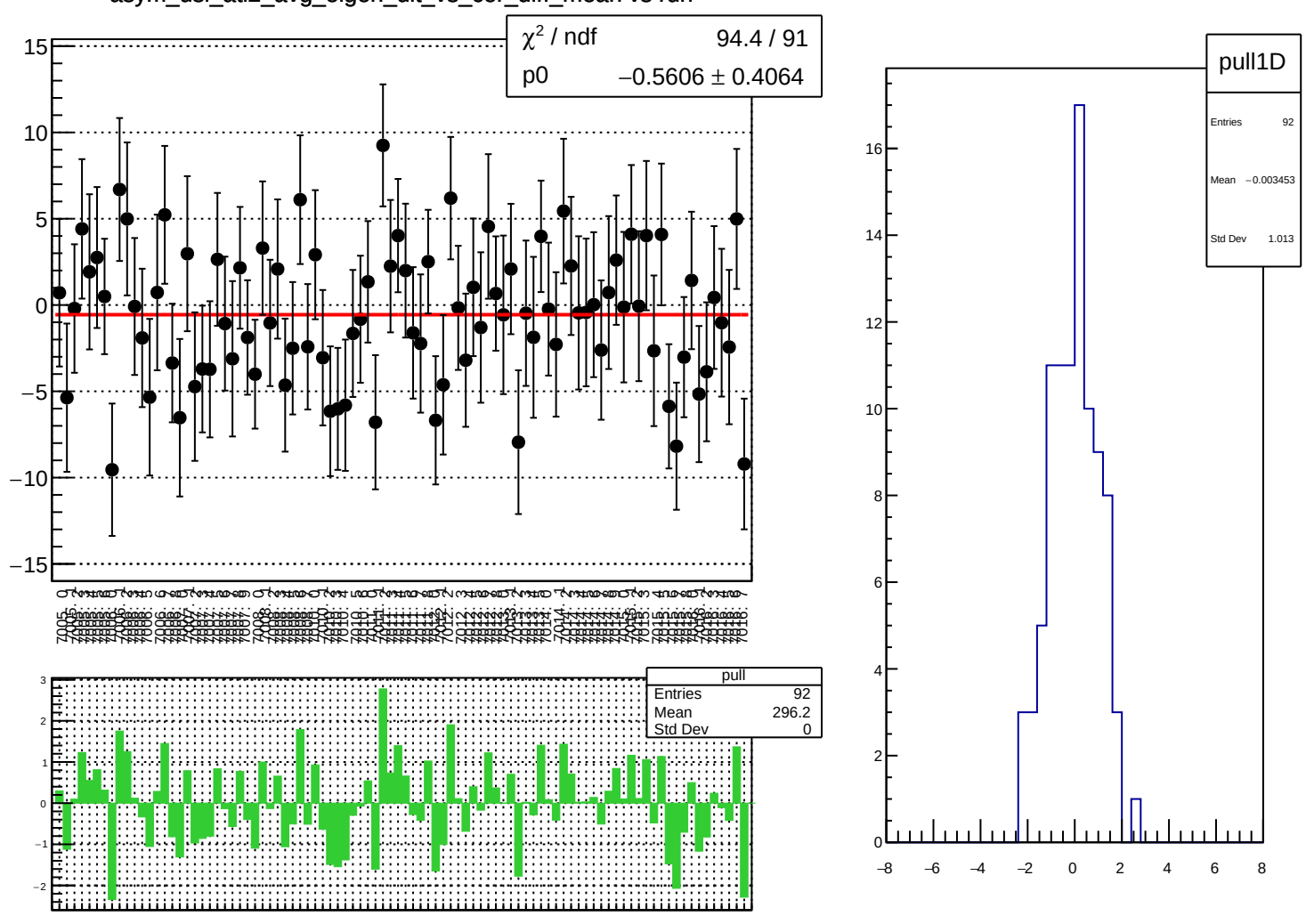

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.4 / 91
p0 −0.5605 ± 0.4064
pull
Entries 92
Mean 296.1
Std Dev 0
pull1D
Entries 92
Mean −0.003453
Std Dev 1.013

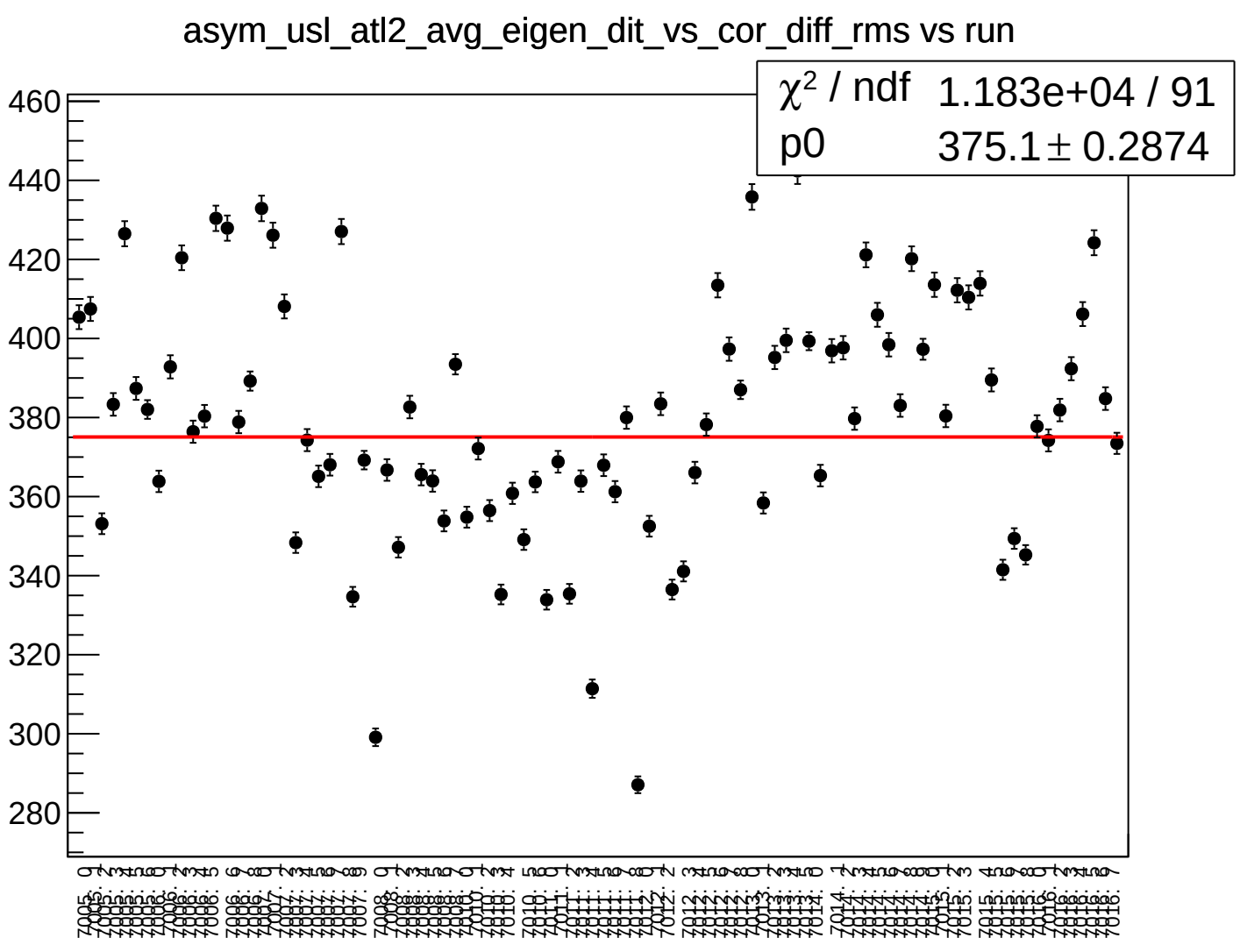

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.183e+04 / 91
p0 375.1 ± 0.2874
460
440
420
400
380
360
340
320
300
280

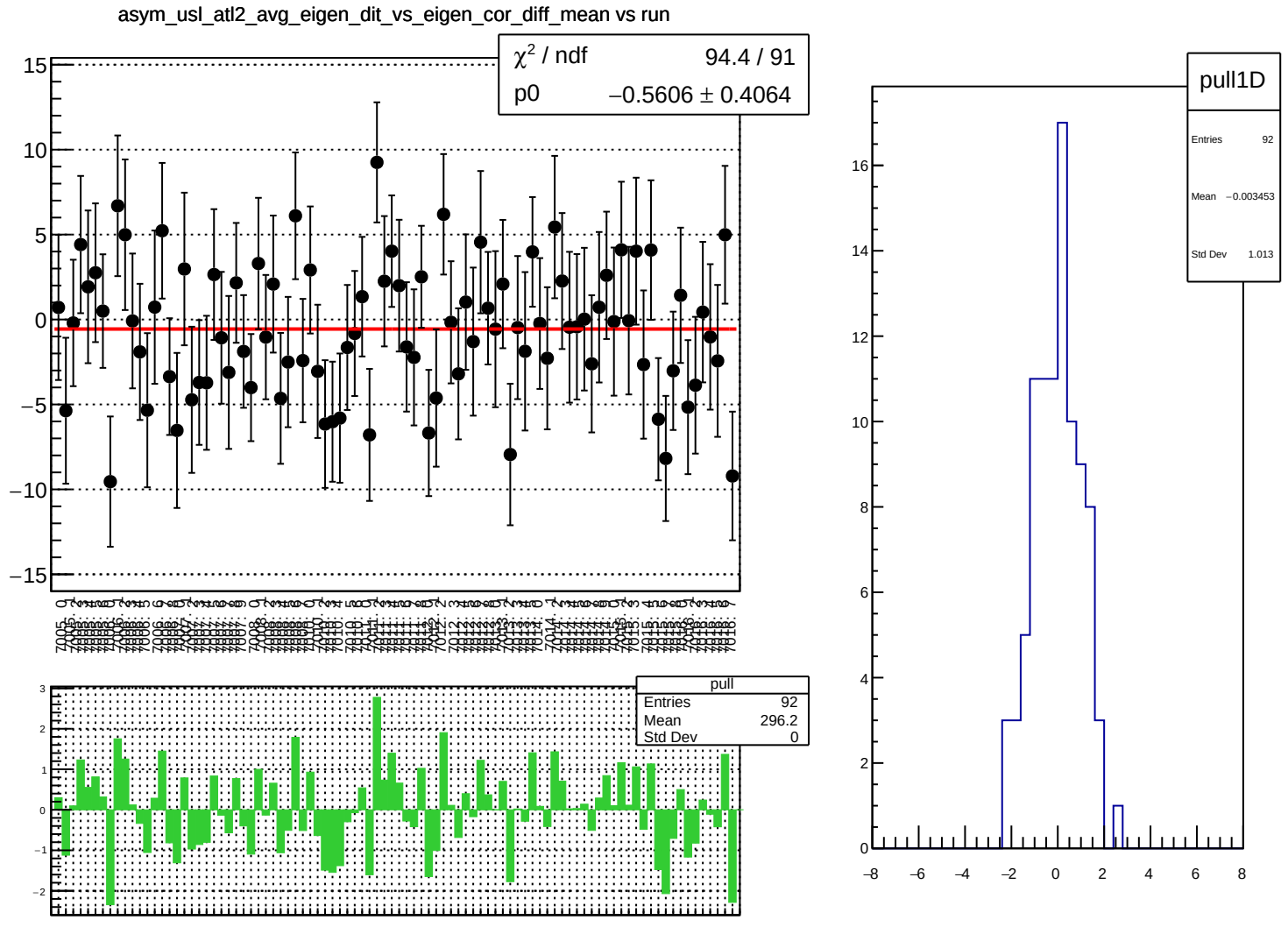

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.54 / 91
p0 −4.453e−05 ± 2.175e−05
pull
Entries 92
Mean −16.43
Std Dev 42.22

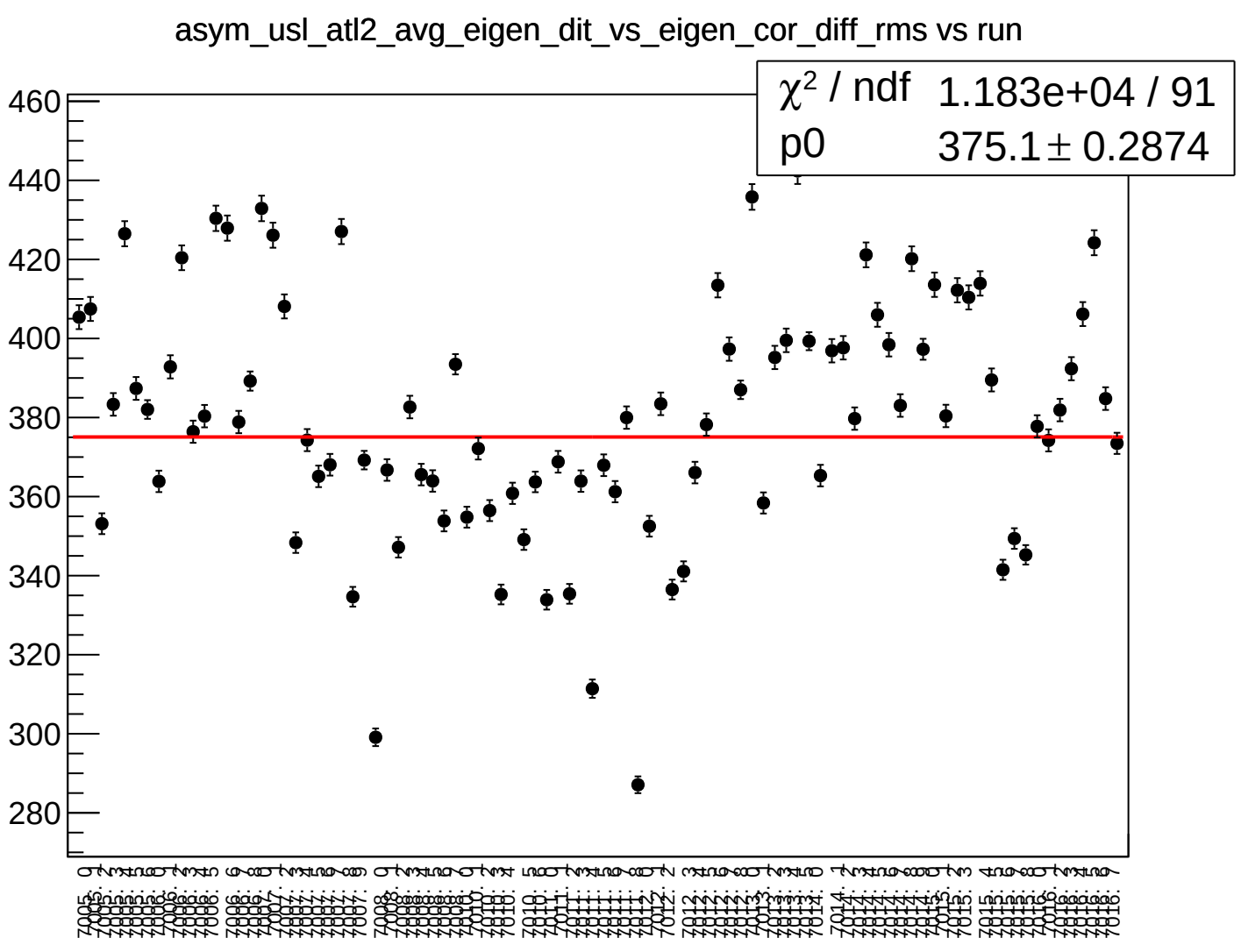

pull1D
Entries 92
Mean 0.01472
Std Dev 0.8939

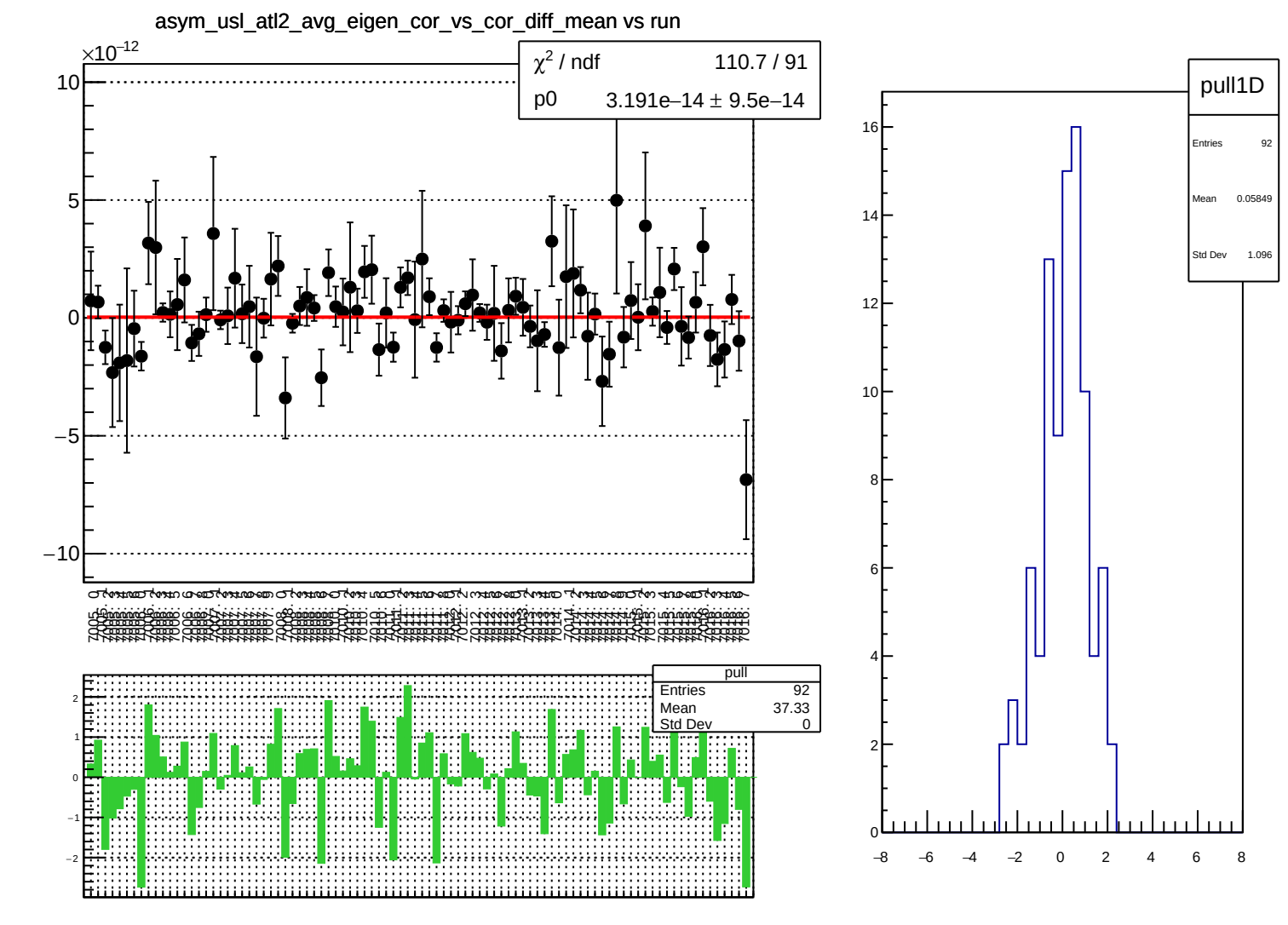

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3575 / 91
p0 0.02013 ± 1.538e–05
0.024
0.023
0.022
0.021
0.02
0.019

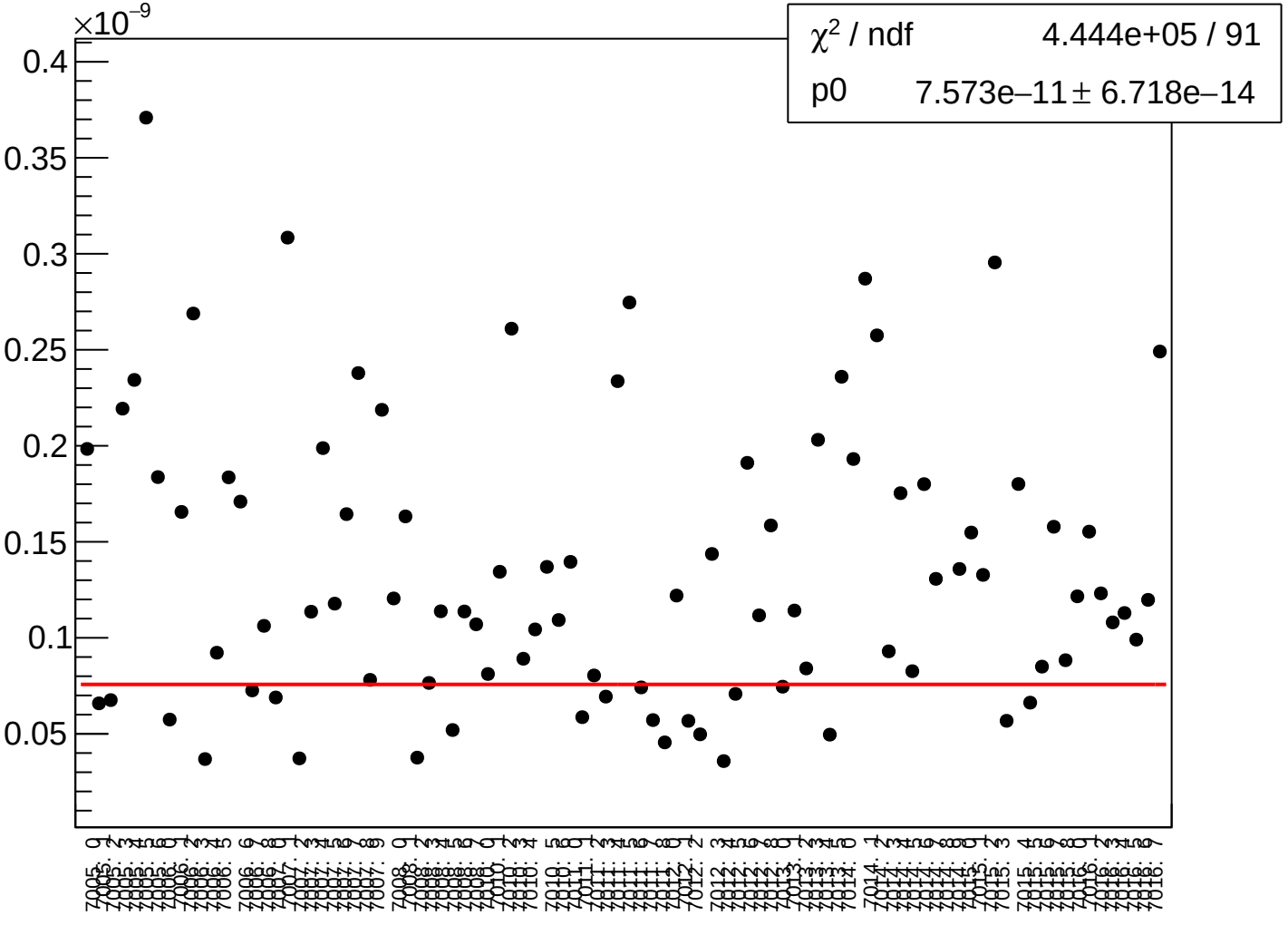

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.4 / 91
p0 −0.5606 ± 0.4064
pull
Entries 92
Mean 296.2
Std Dev 0
pull1D
Entries 92
Mean −0.003453
Std Dev 1.013

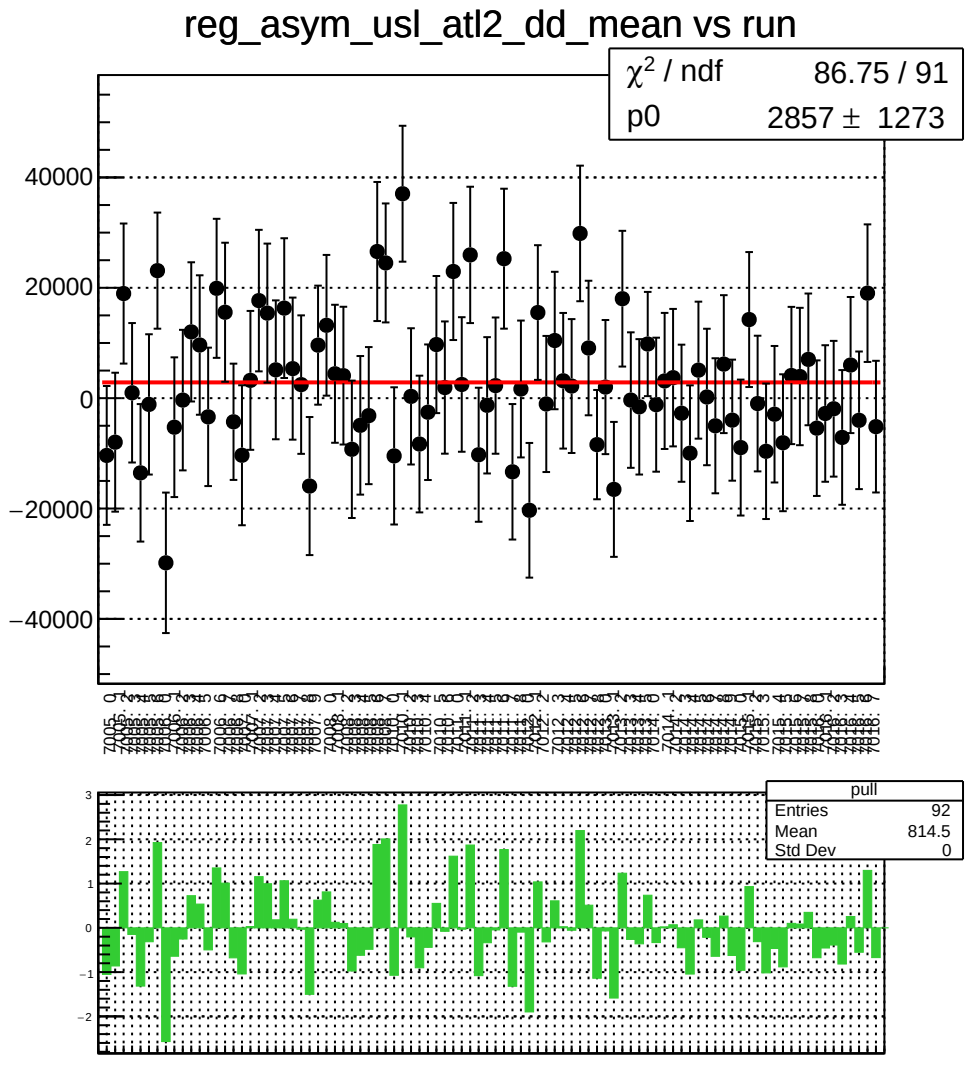

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.183e+04 / 91
p0 375.1 ± 0.2874
460
440
420
400
380
360
340
320
300
280

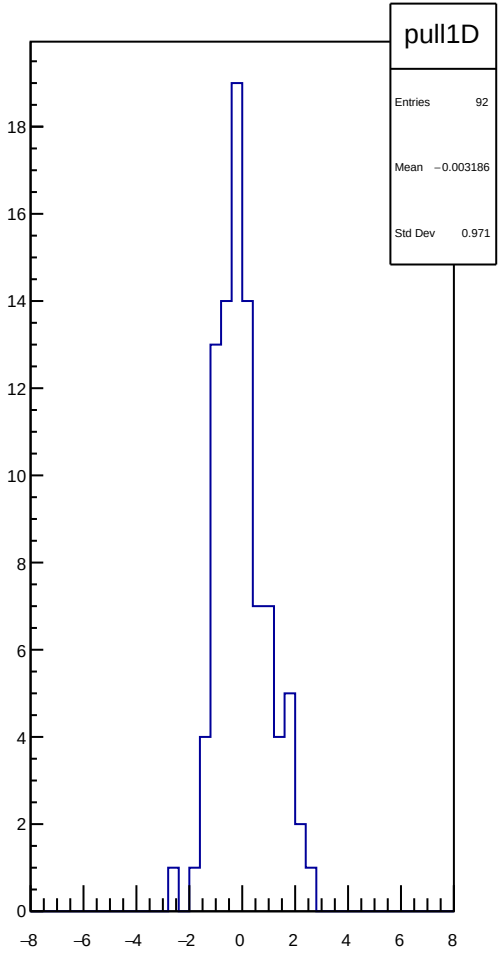

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.4 / 91
p0 −0.5606 ± 0.4064
pull
Entries 92
Mean 296.2
Std Dev 0
pull1D
Entries 92
Mean −0.003453
Std Dev 1.013

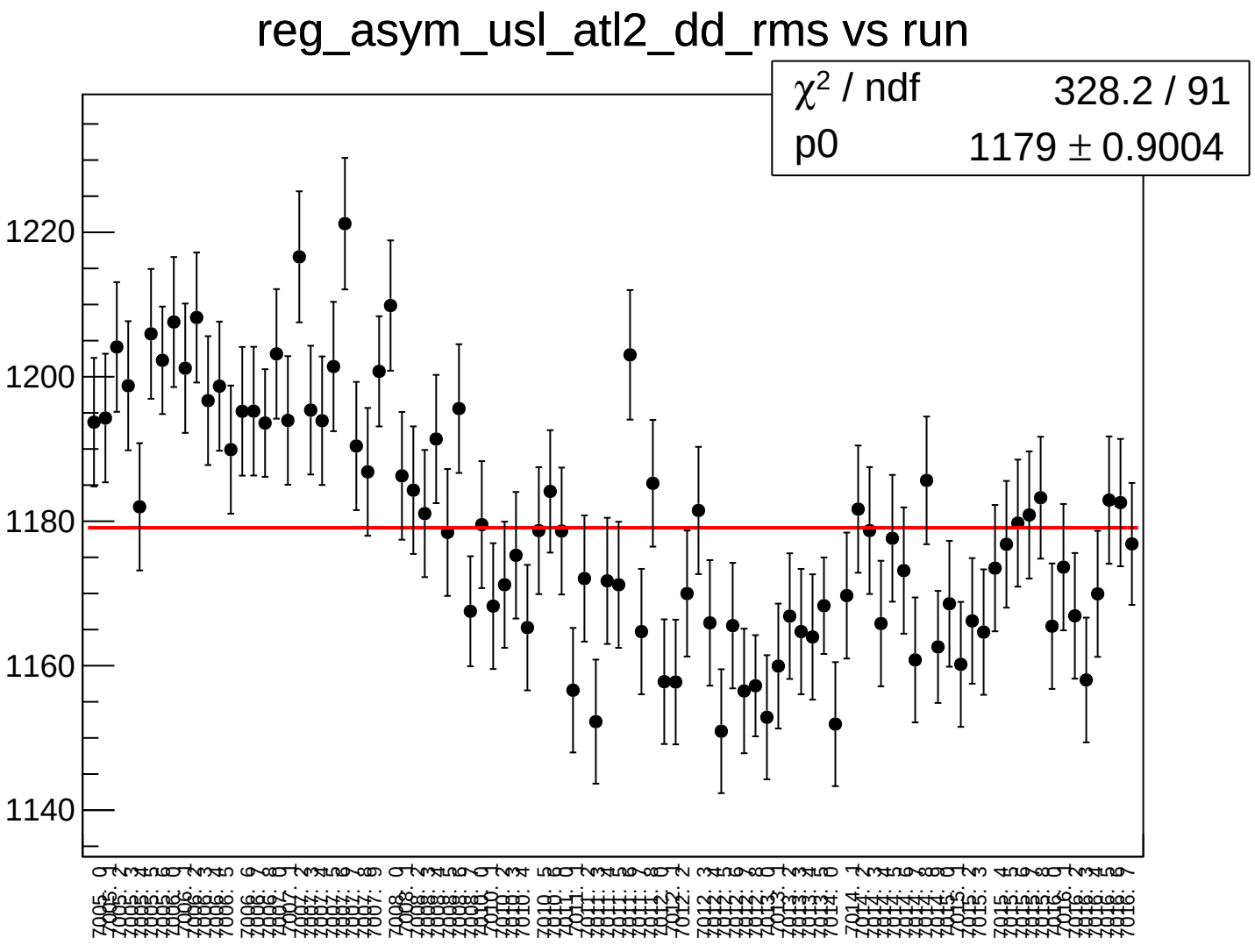

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.183e+04 / 91
p0 375.1 ± 0.2874
460
440
420
400
380
360
340
320
300
280

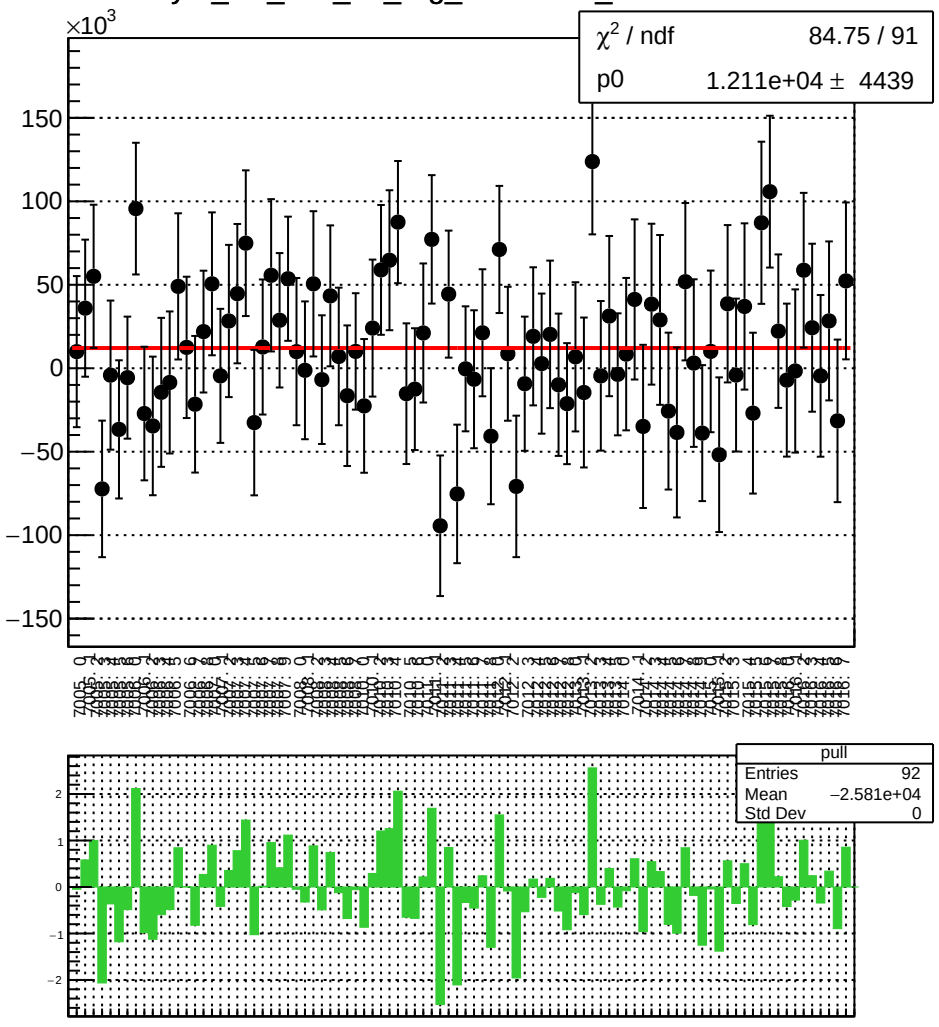

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.7 / 91
p0 3.191e−14 ± 9.5e−14
pull
Entries 92
Mean 37.33
Std Dev 0
pull1D
Entries 92
Mean 0.05849
Std Dev 1.096

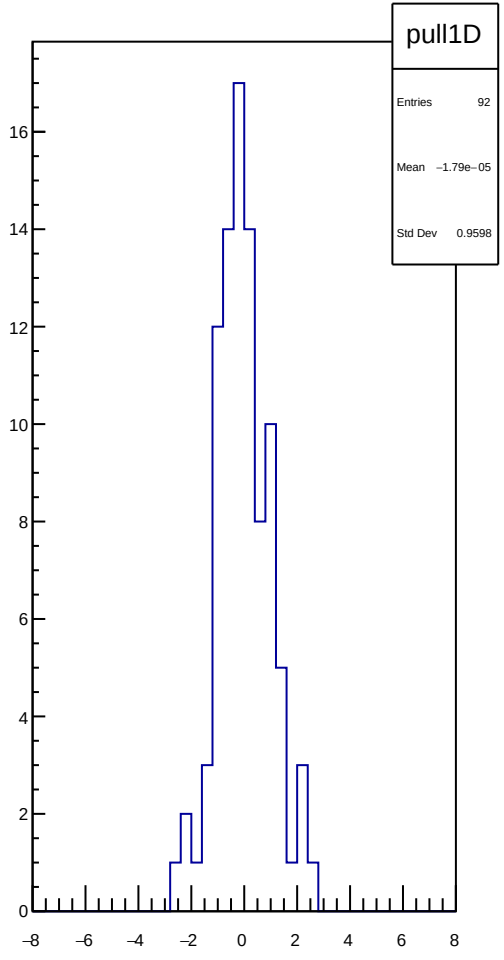

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 4.444e+05 / 91
p0 7.573e−11 ± 6.718e−14

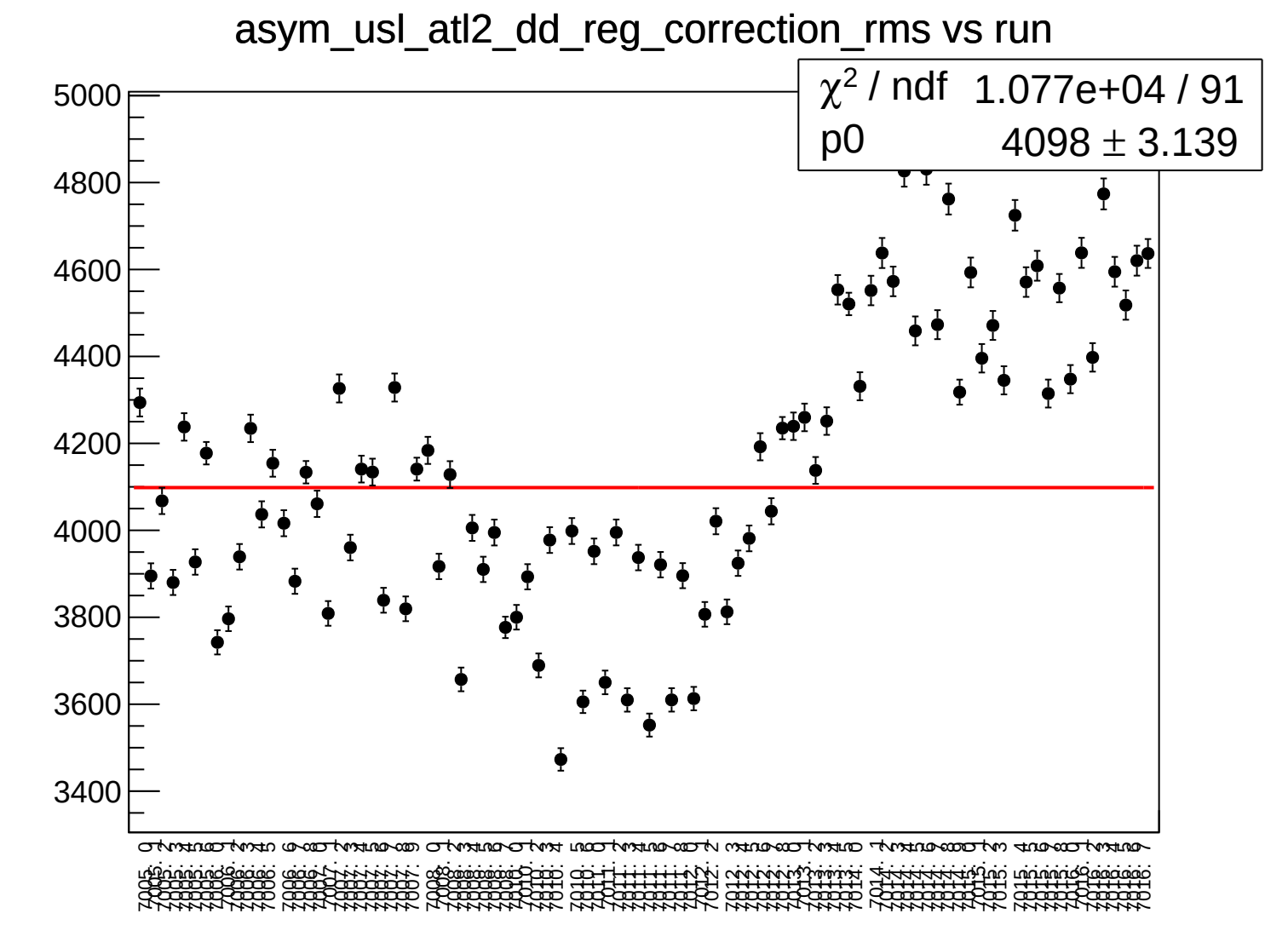

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 86.75 / 91
p0 2857 ± 1273
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 814.5
Std Dev 0
3
2
1
0
−1
−2

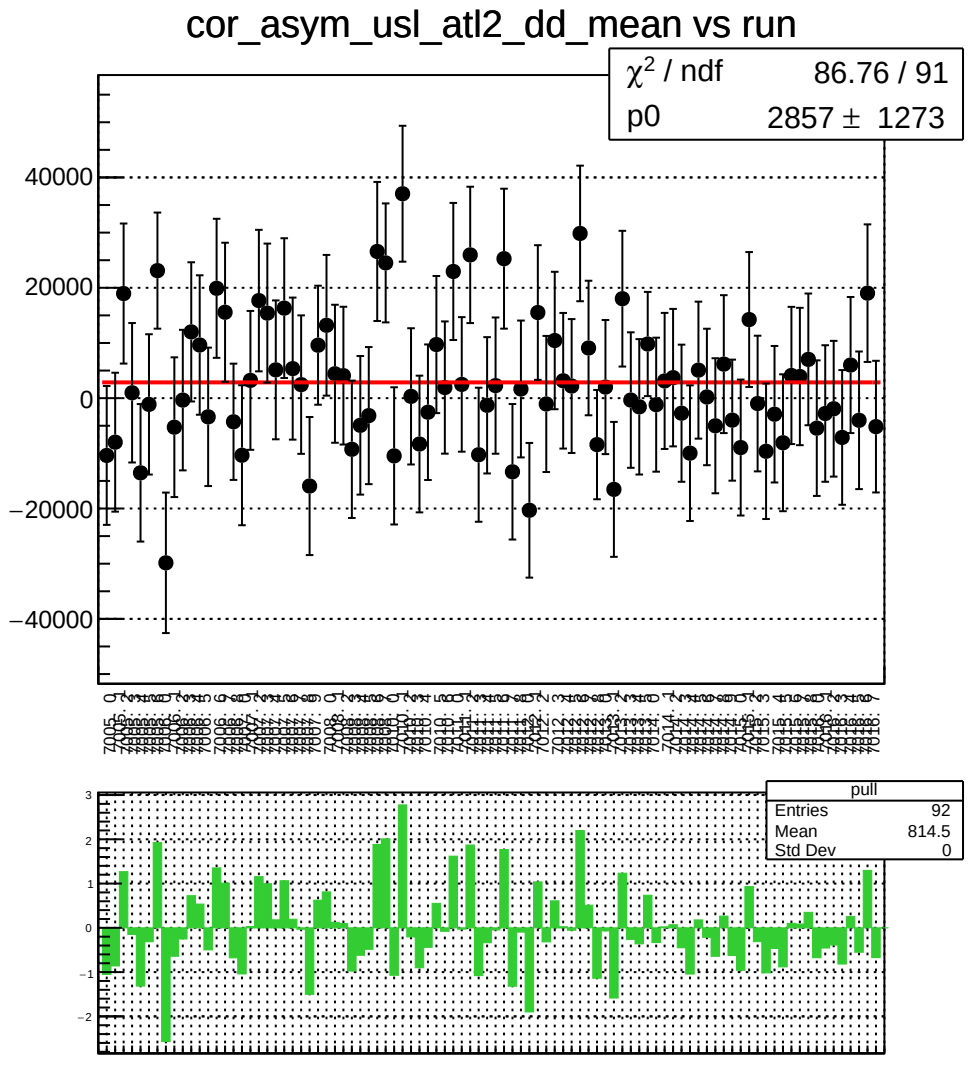

pull1D
Entries 92
Mean −0.003186
Std Dev 0.971
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

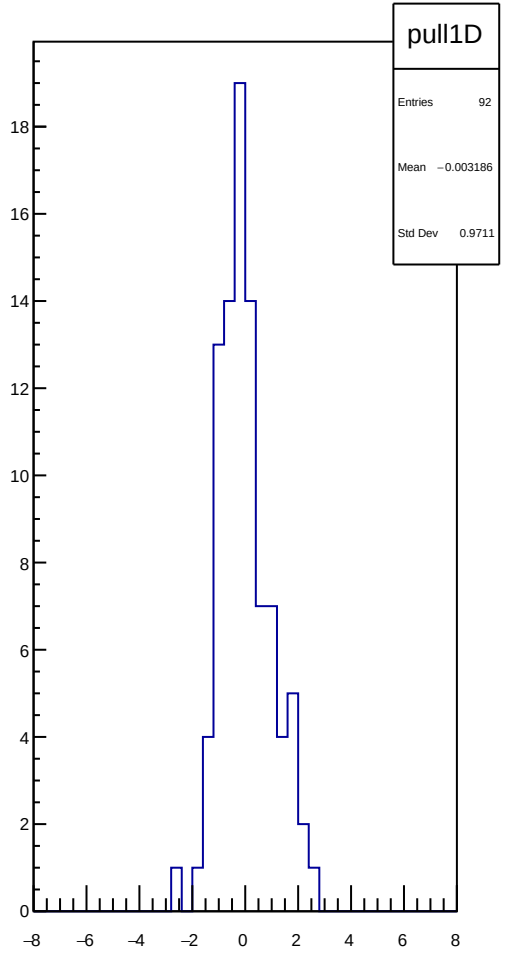

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 328.2 / 91
p0 1179 ± 0.9004
1220
1200
1180
1160
1140

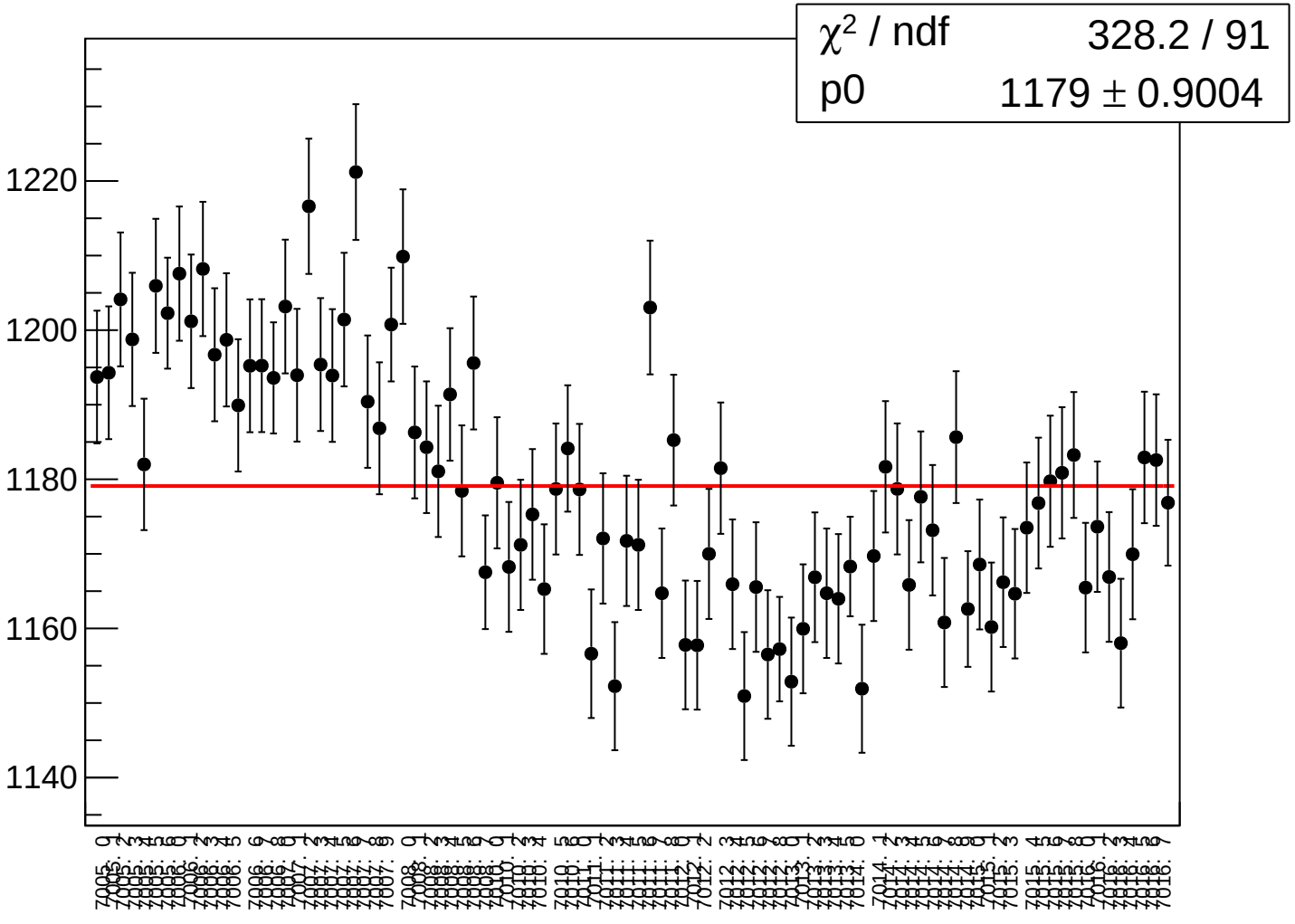

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.75 / 91
p0 1.211e+04 ± 4439
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −2.581e+04
Std Dev 0
2
1
0
−1
−2

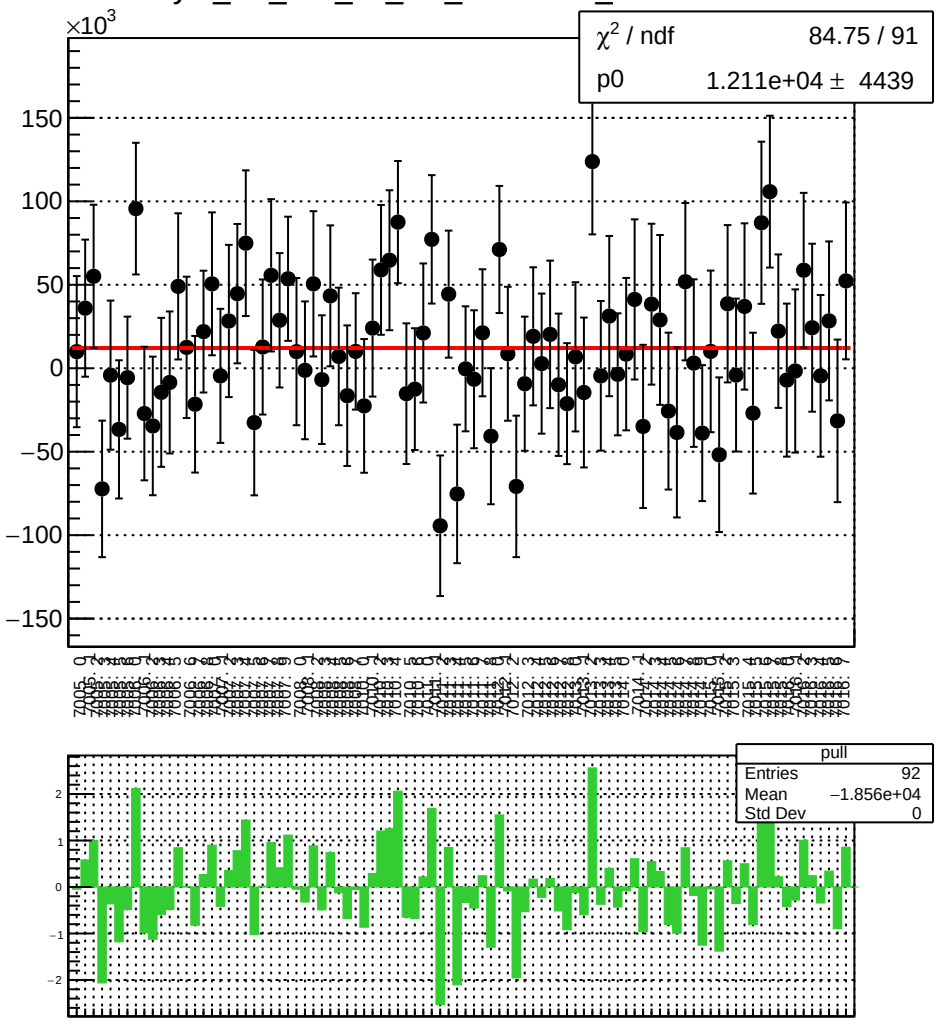

pull1D
Entries 92
Mean −1.79e−05
Std Dev 0.9598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

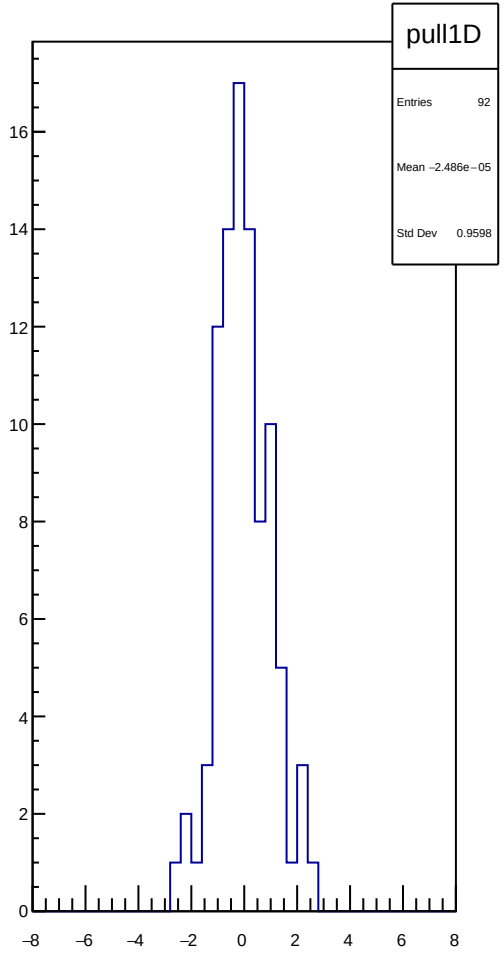

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 1.077e+04 / 91
p0 4098 ± 3.139
5000
4800
4600
4400
4200
4000
3800
3600
3400

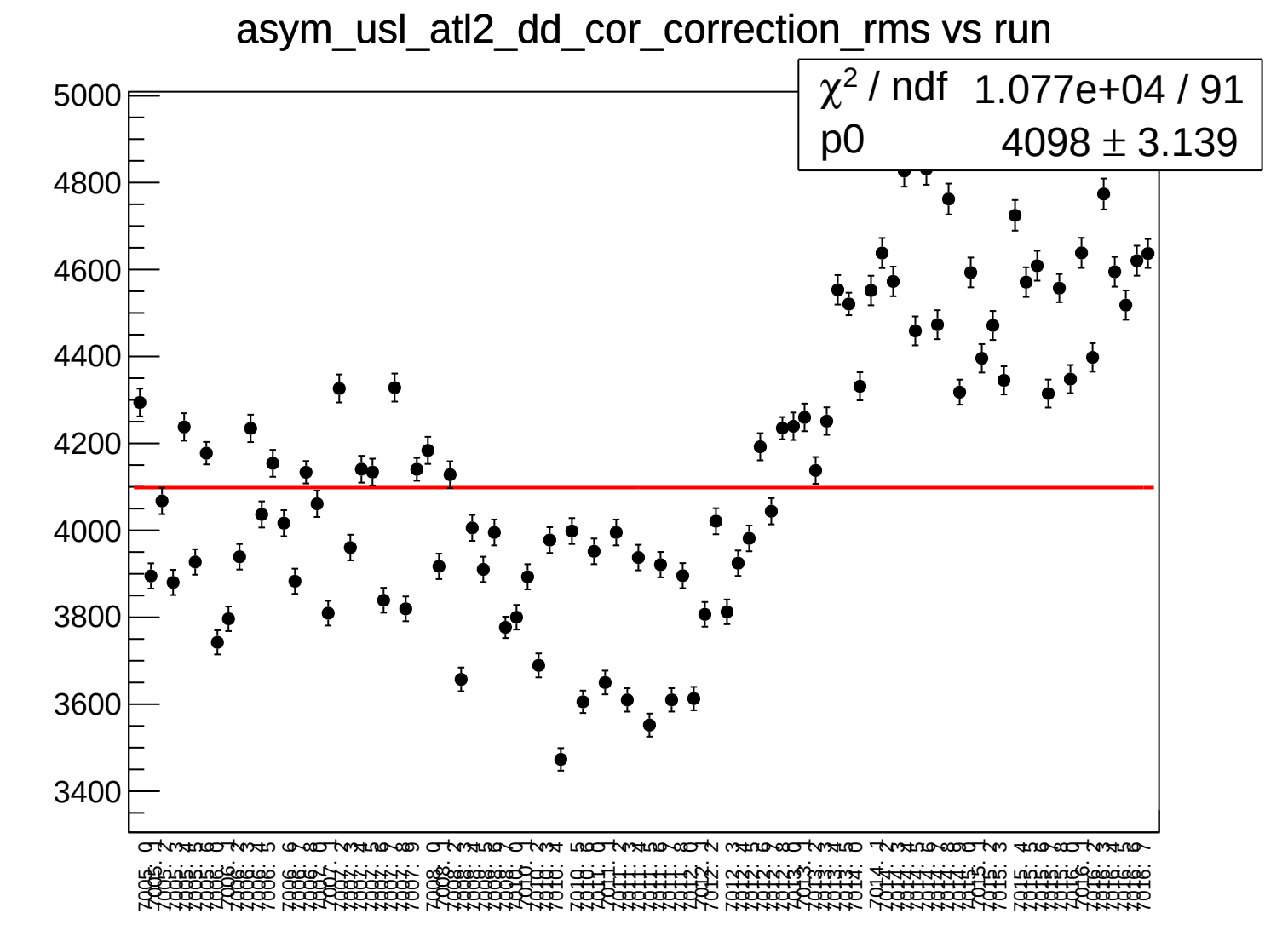

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 86.76 / 91
p0 2857 ± 1273
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 814.5
Std Dev 0
3
2
1
0
−1
−2

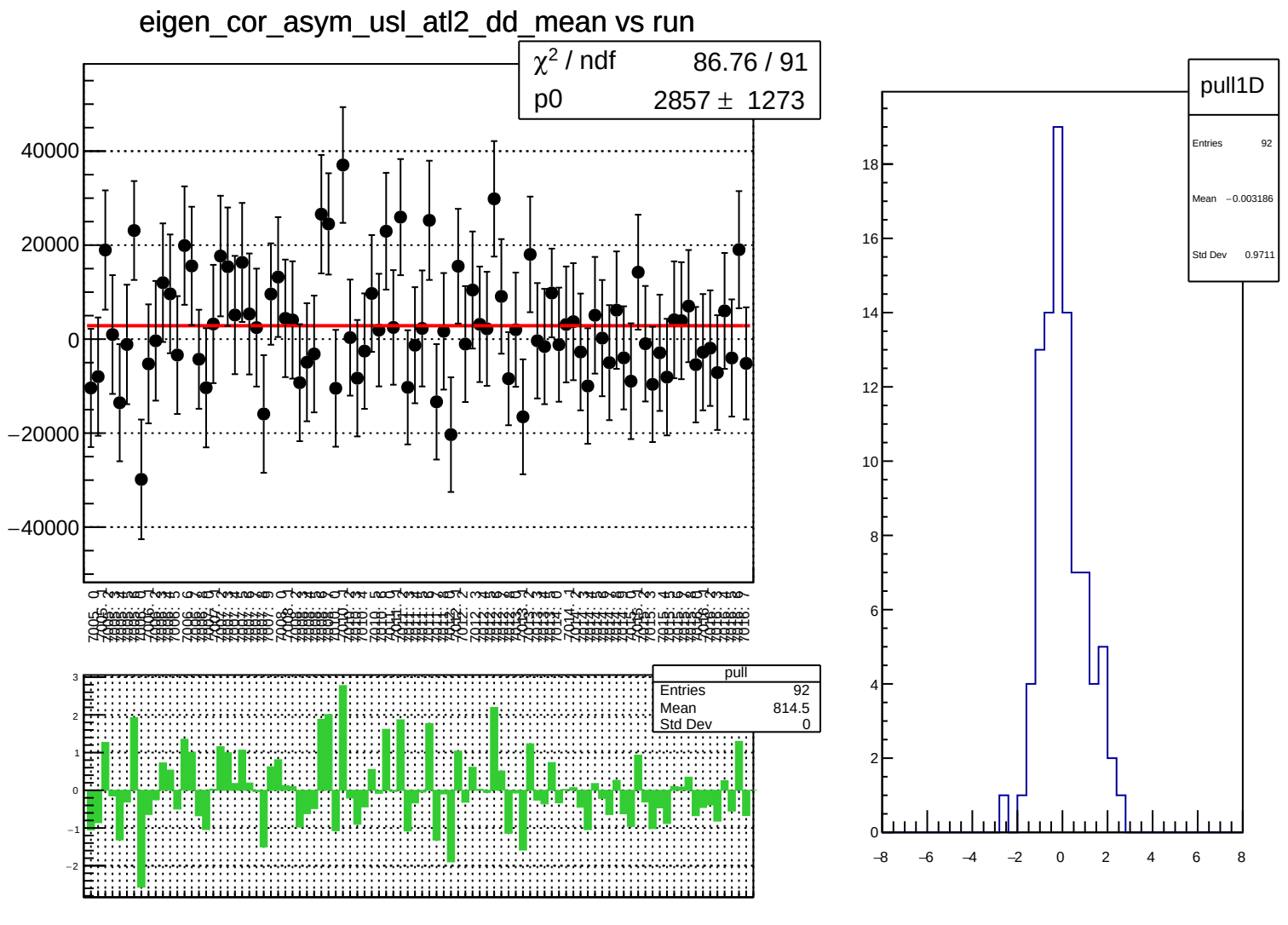

pull1D
Entries 92
Mean −0.003186
Std Dev 0.9711
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

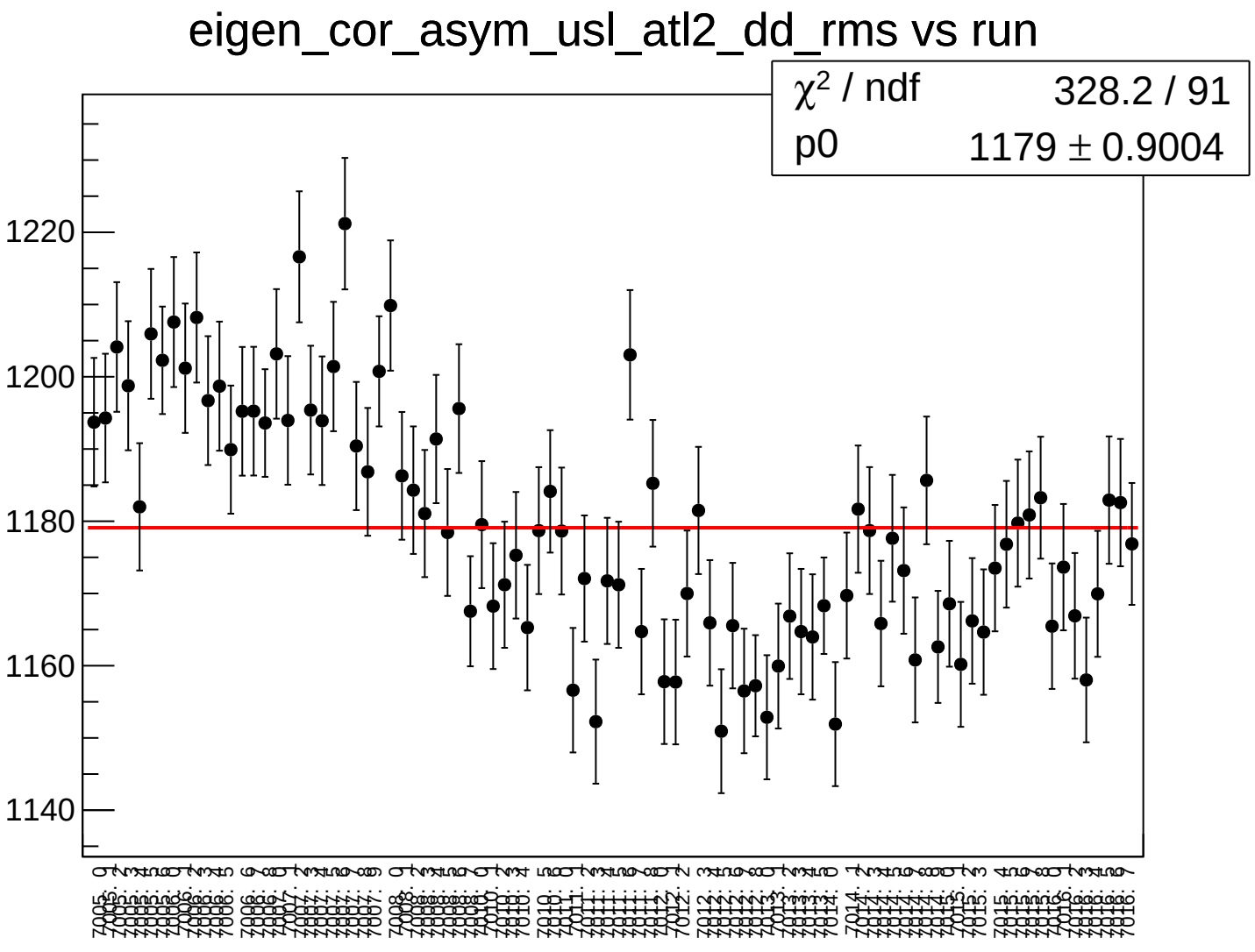

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 328.2 / 91
p0 1179 ± 0.9004
1220
1200
1180
1160
1140

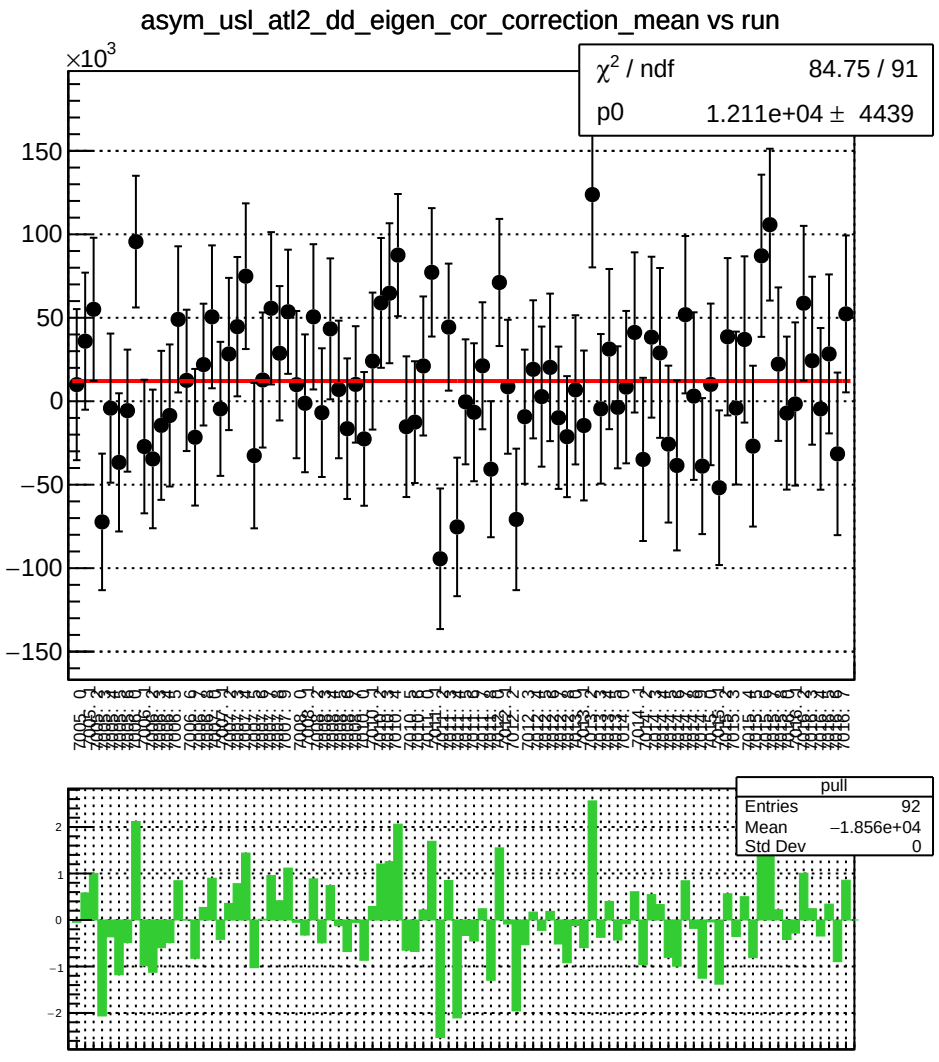

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.75 / 91
p0 1.211e+04 ± 4439
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1.856e+04
Std Dev 0
2
1
0
−1
−2

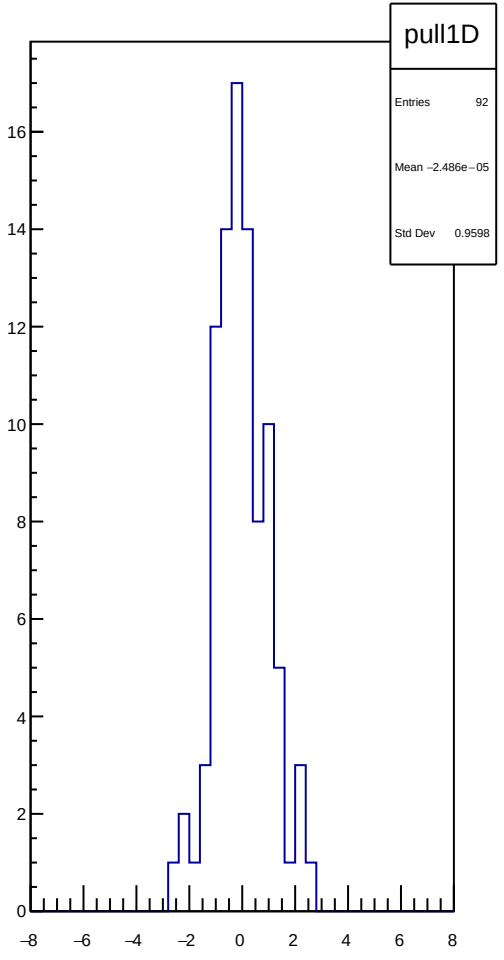

pull1D
Entries 92
Mean −2.486e−05
Std Dev 0.9598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

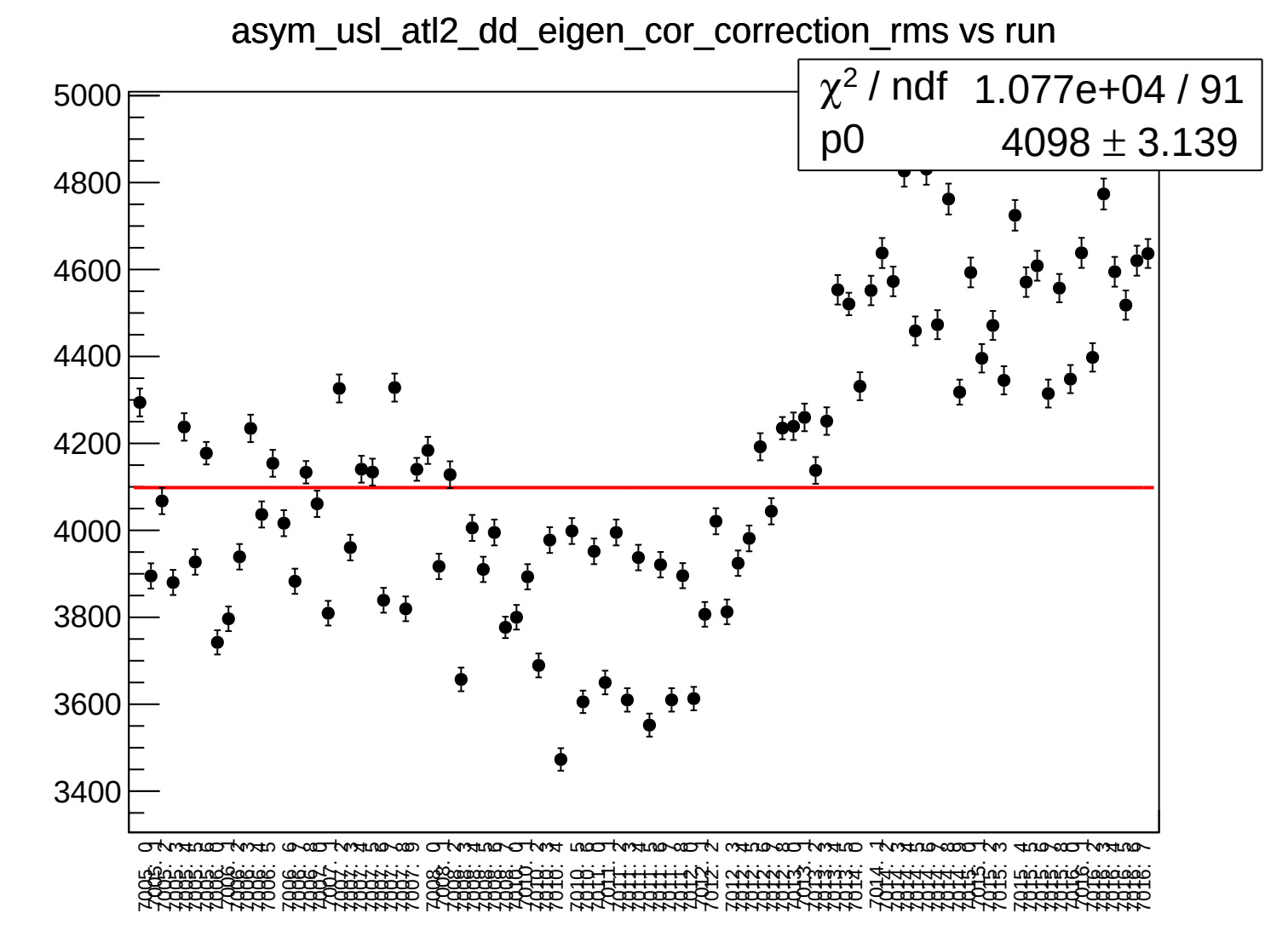

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 1.077e+04 / 91
p0 4098 ± 3.139
5000
4800
4600
4400
4200
4000
3800
3600
3400

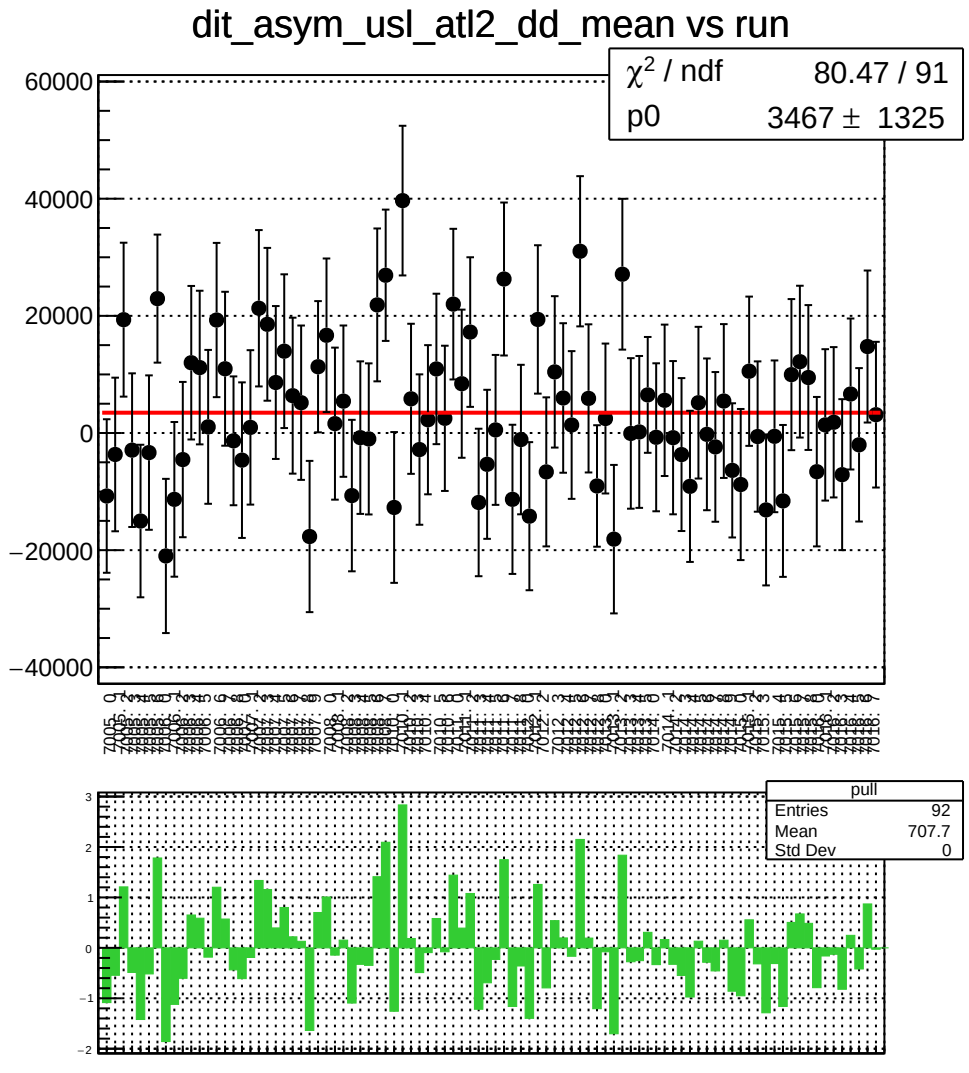

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 86.76 / 91
p0 2857 ± 1273
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 814.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003186
Std Dev 0.9711
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

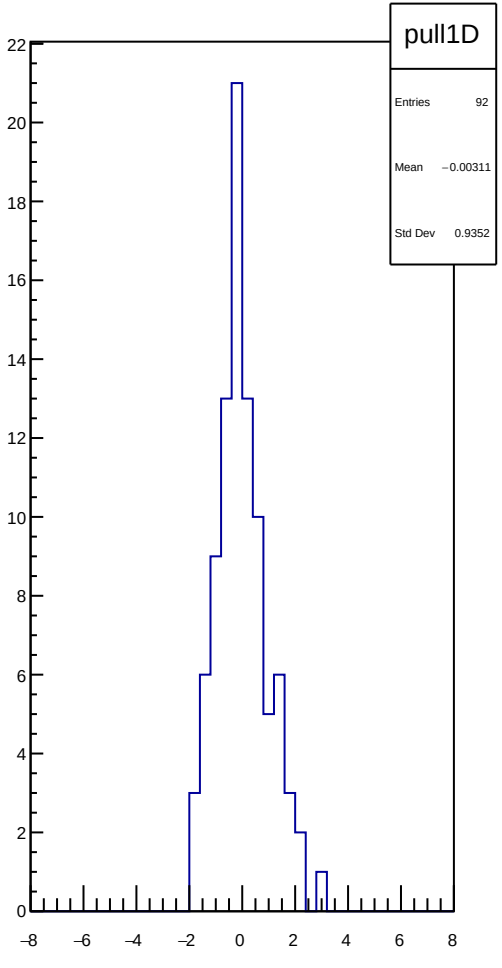

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 328.2 / 91
p0 1179 ± 0.9004
1220
1200
1180
1160
1140

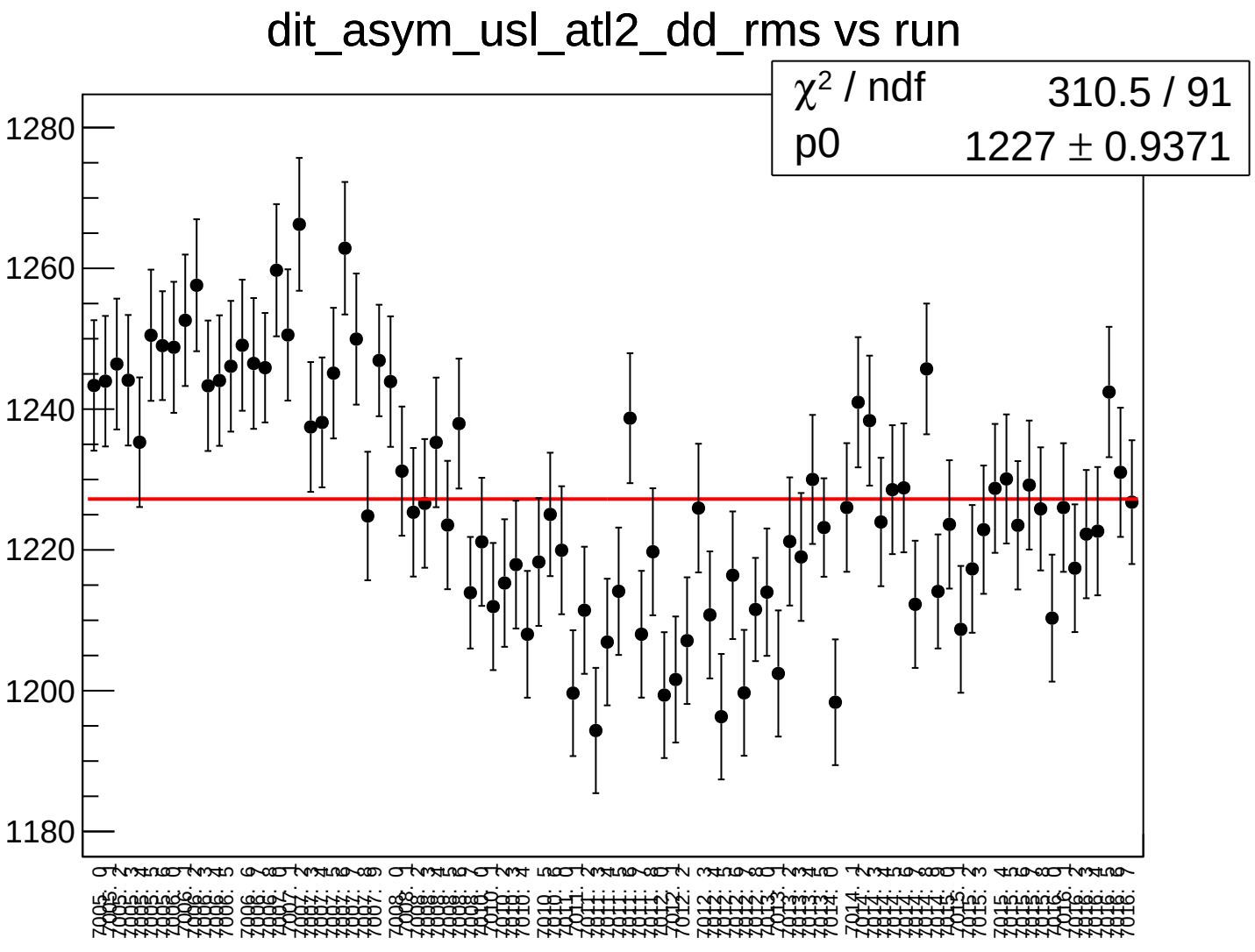

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.75 / 91
p0 1.211e+04 ± 4439
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1.856e+04
Std Dev 0
2
1
0
−1
−2

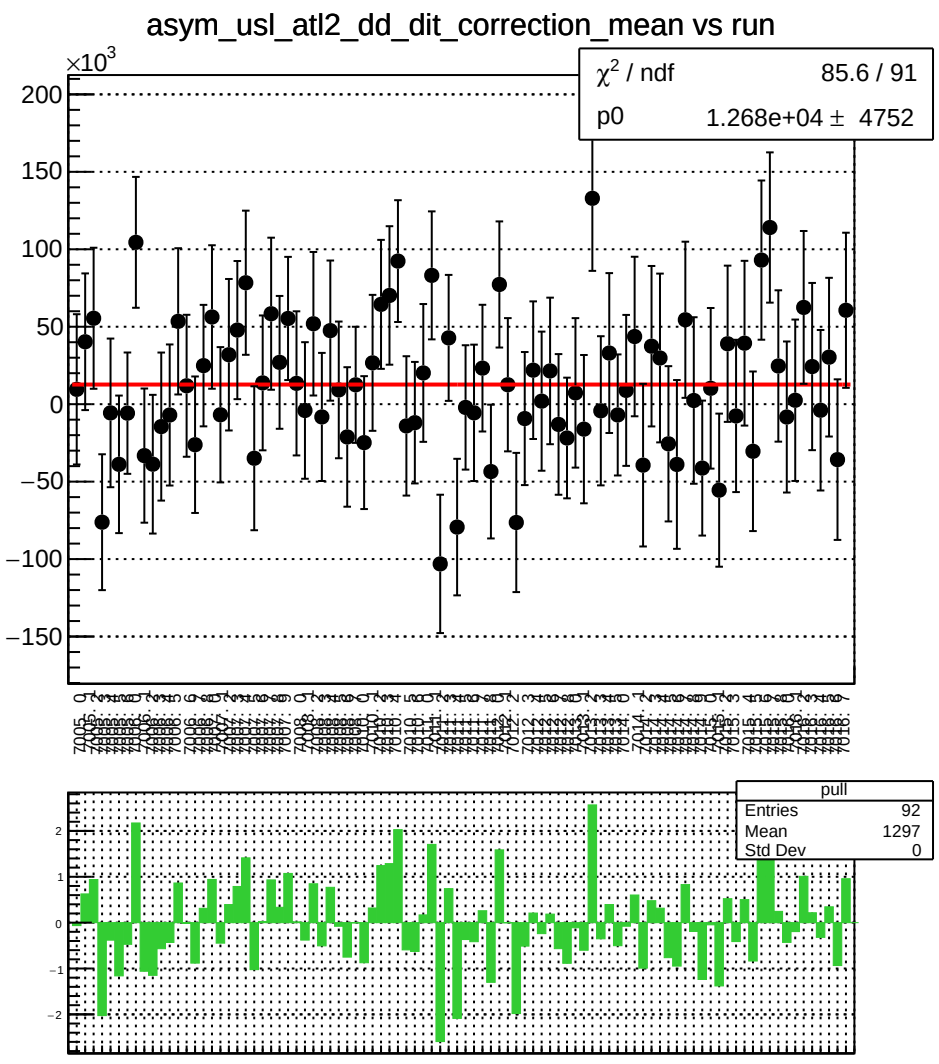

pull1D
Entries 92
Mean −2.486e−05
Std Dev 0.9598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

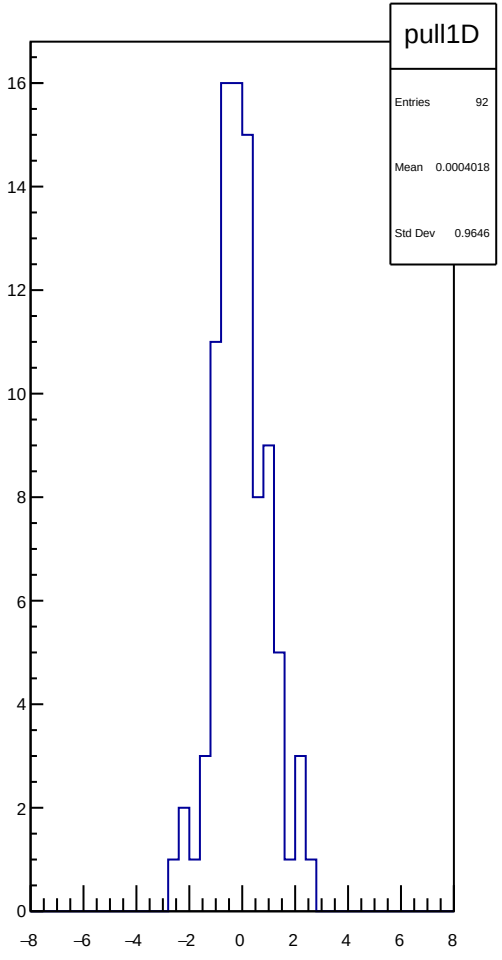

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.077e+04 / 91
p0 4098 ± 3.139
5000
4800
4600
4400
4200
4000
3800
3600
3400

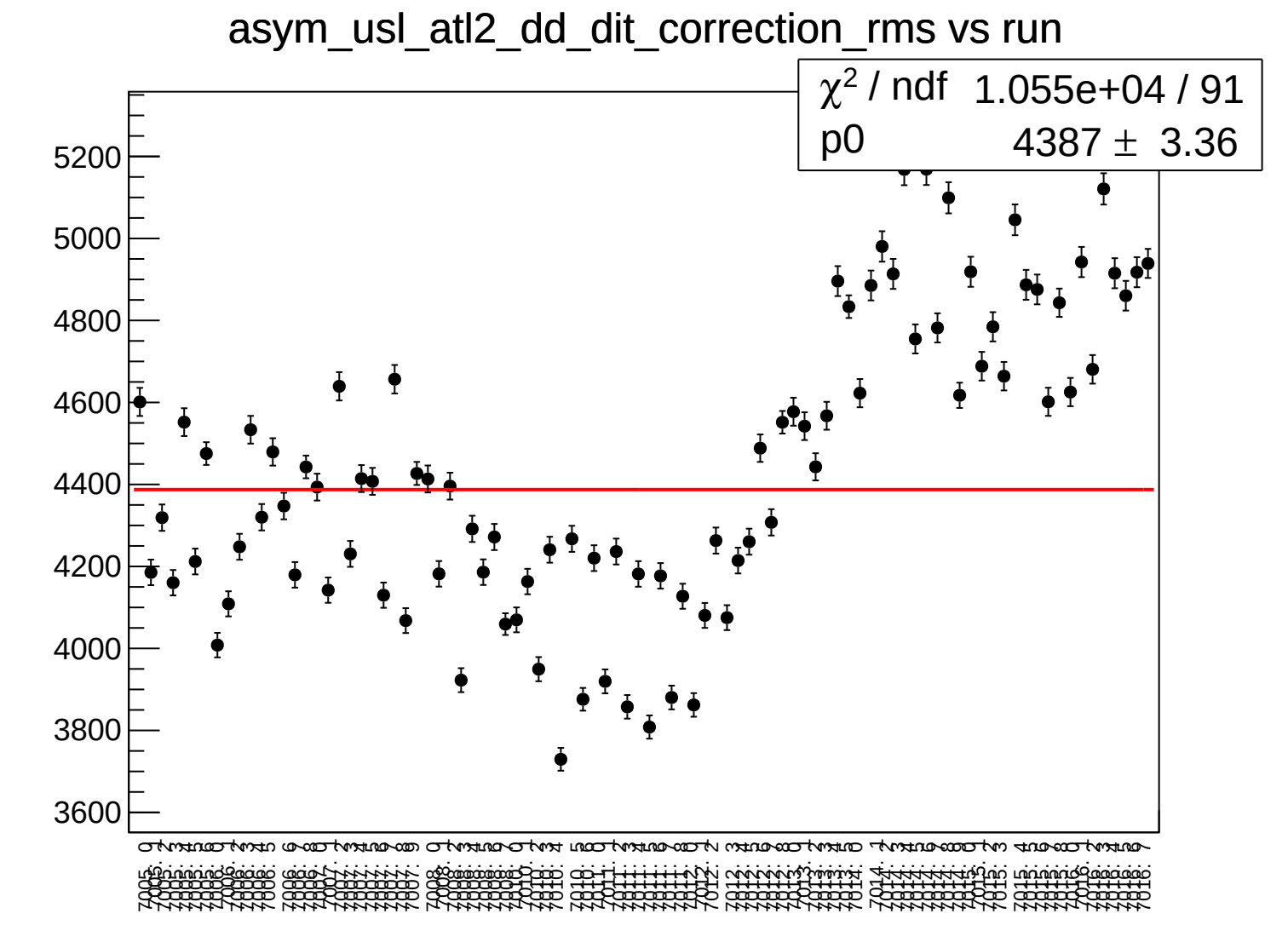

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 80.47 / 91
p0 3467 ± 1325
pull
Entries 92
Mean 707.7
Std Dev 0

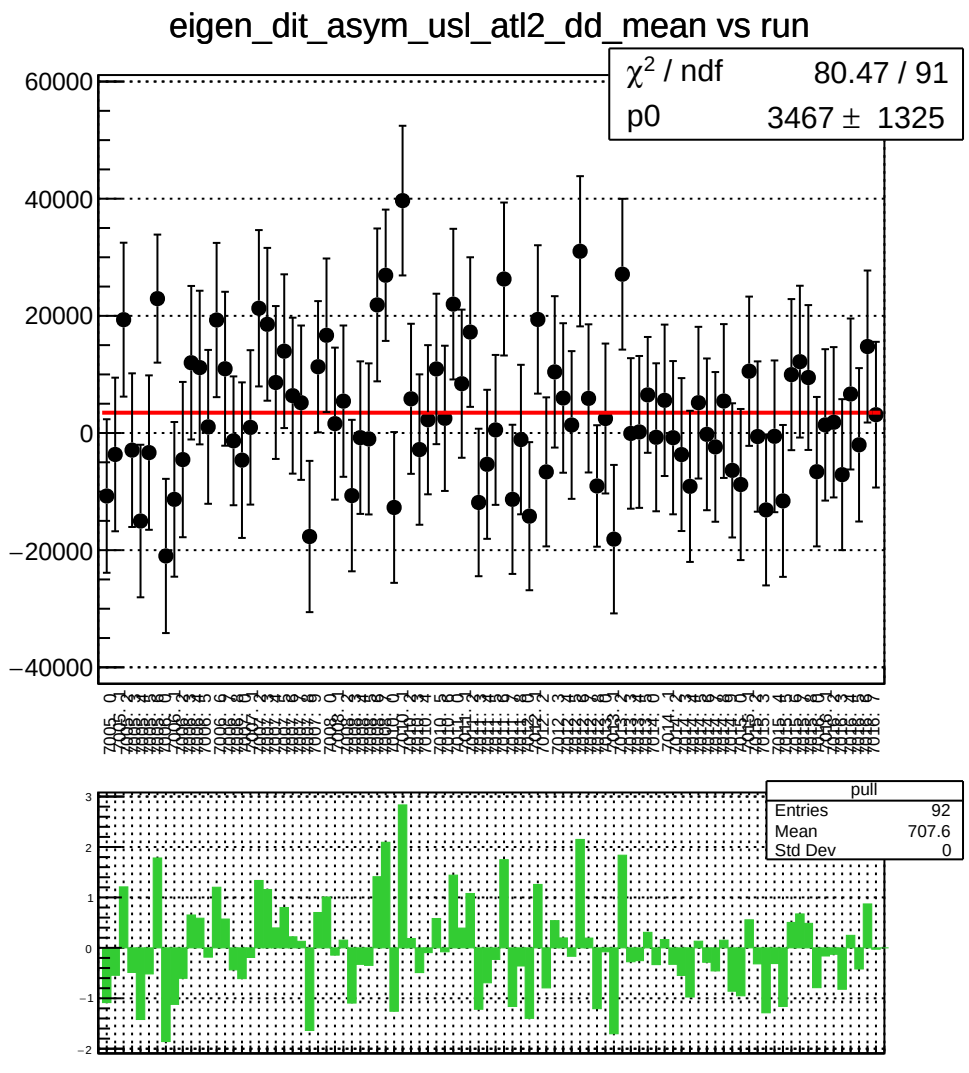

pull1D
Entries 92
Mean −0.00311
Std Dev 0.9352

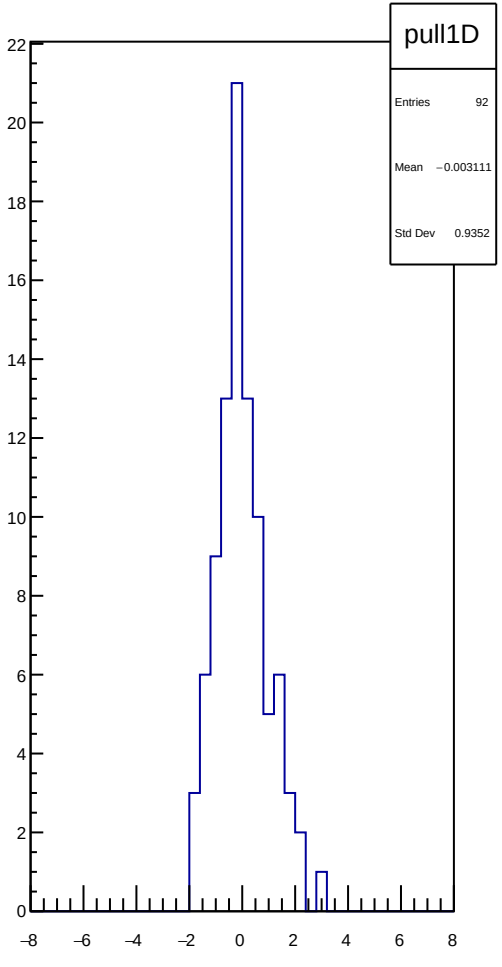

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 310.5 / 91
p0 1227 ± 0.9371
1280
1260
1240
1220
1200
1180

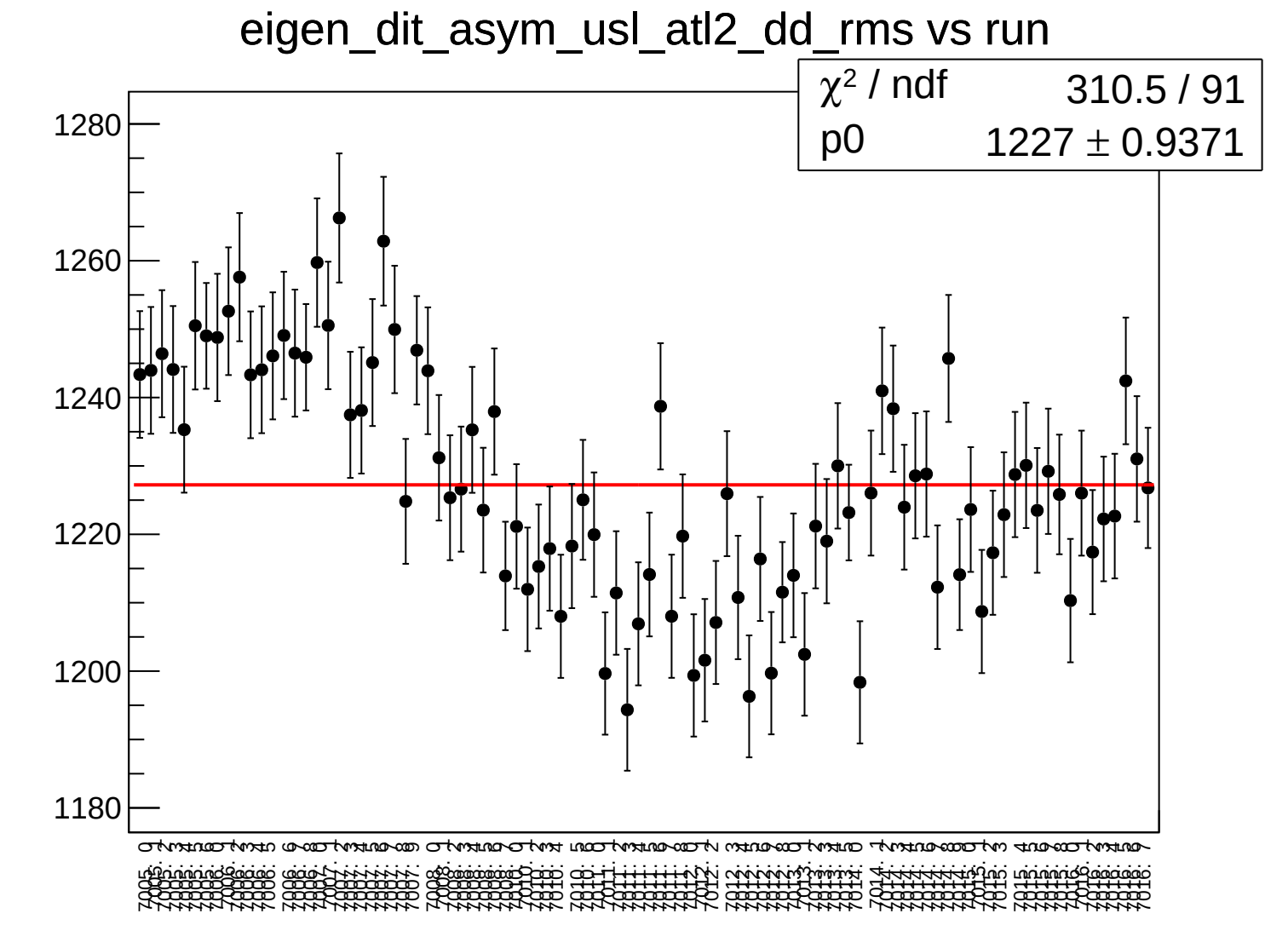

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.6 / 91
p0 1.268e+04 ± 4752
pull
Entries 92
Mean 1297
Std Dev 0

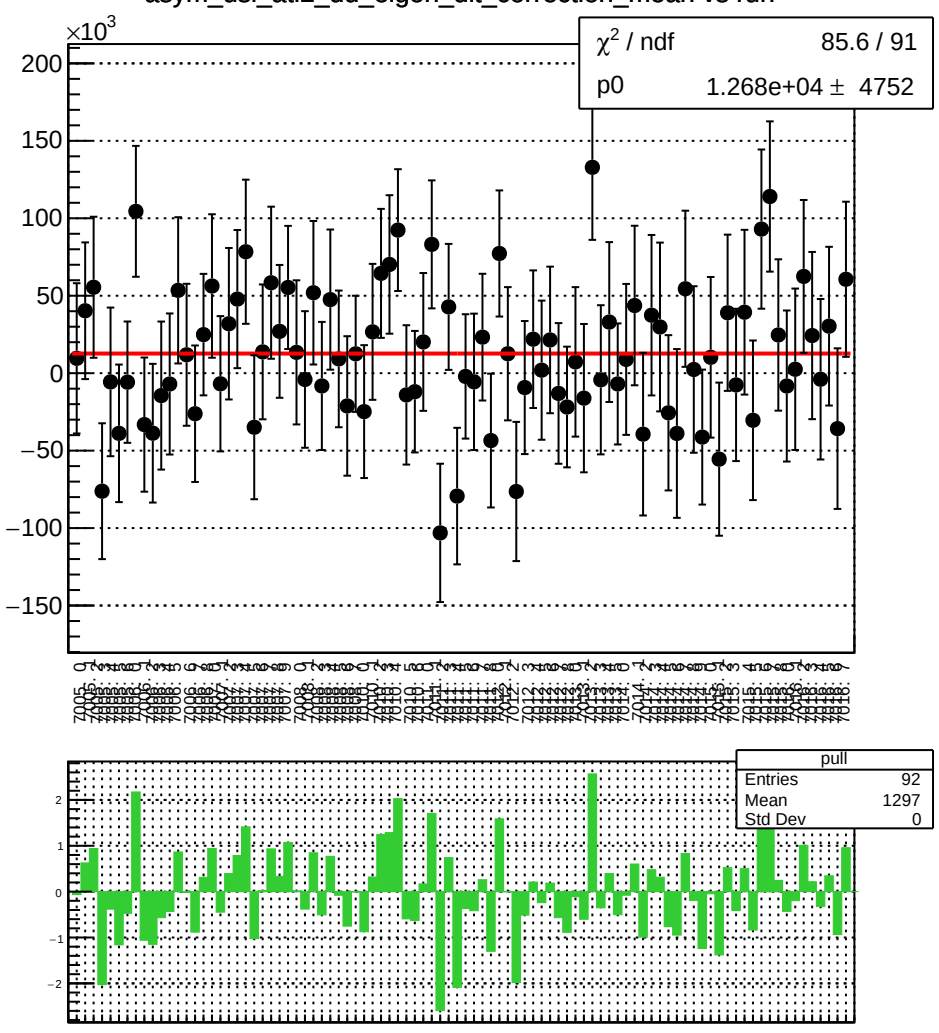

pull1D
Entries 92
Mean 0.0004018
Std Dev 0.9646

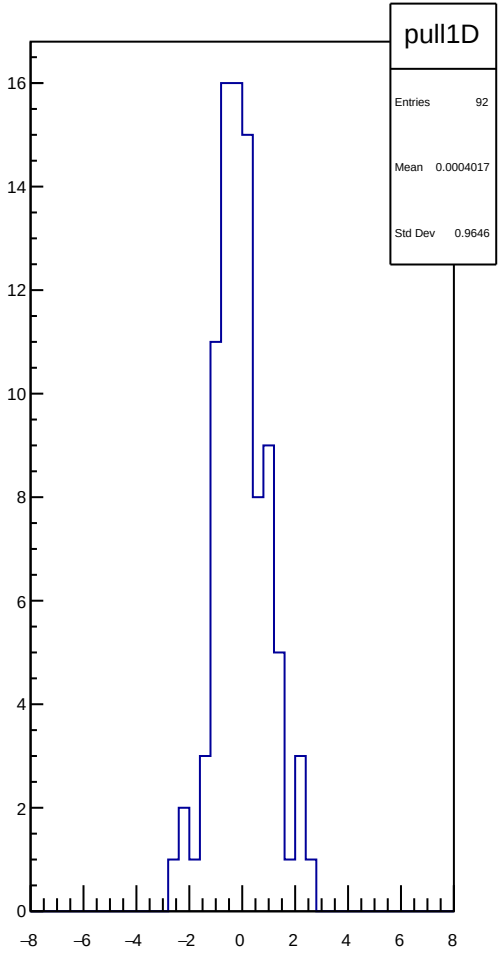

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.055e+04 / 91
p0 4387 ± 3.36
5200
5000
4800
4600
4400
4200
4000
3800
3600

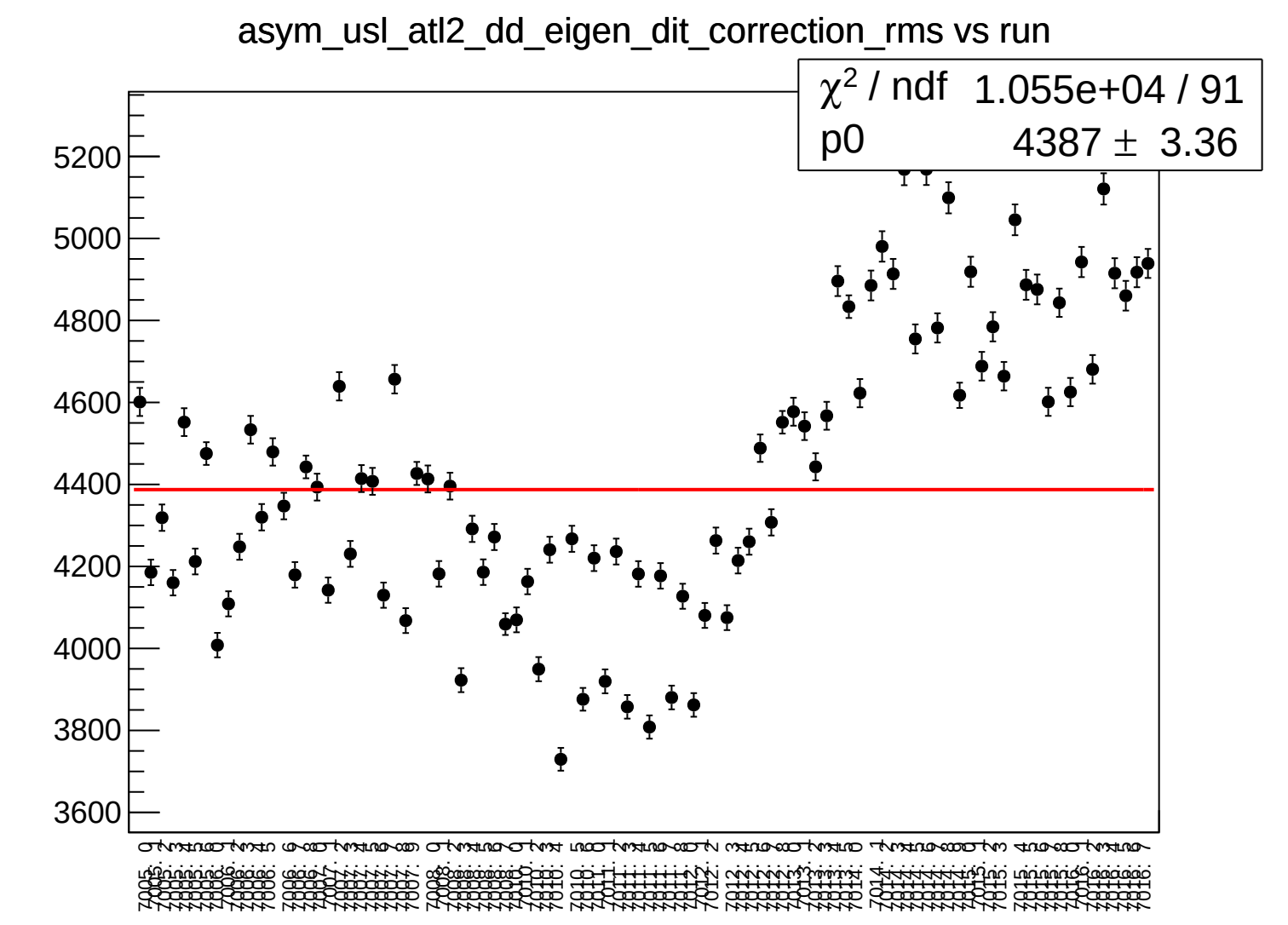

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 80.47 / 91
p0 3467 ± 1325
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 707.6
Std Dev 0
3
2
1
0
−1
−2

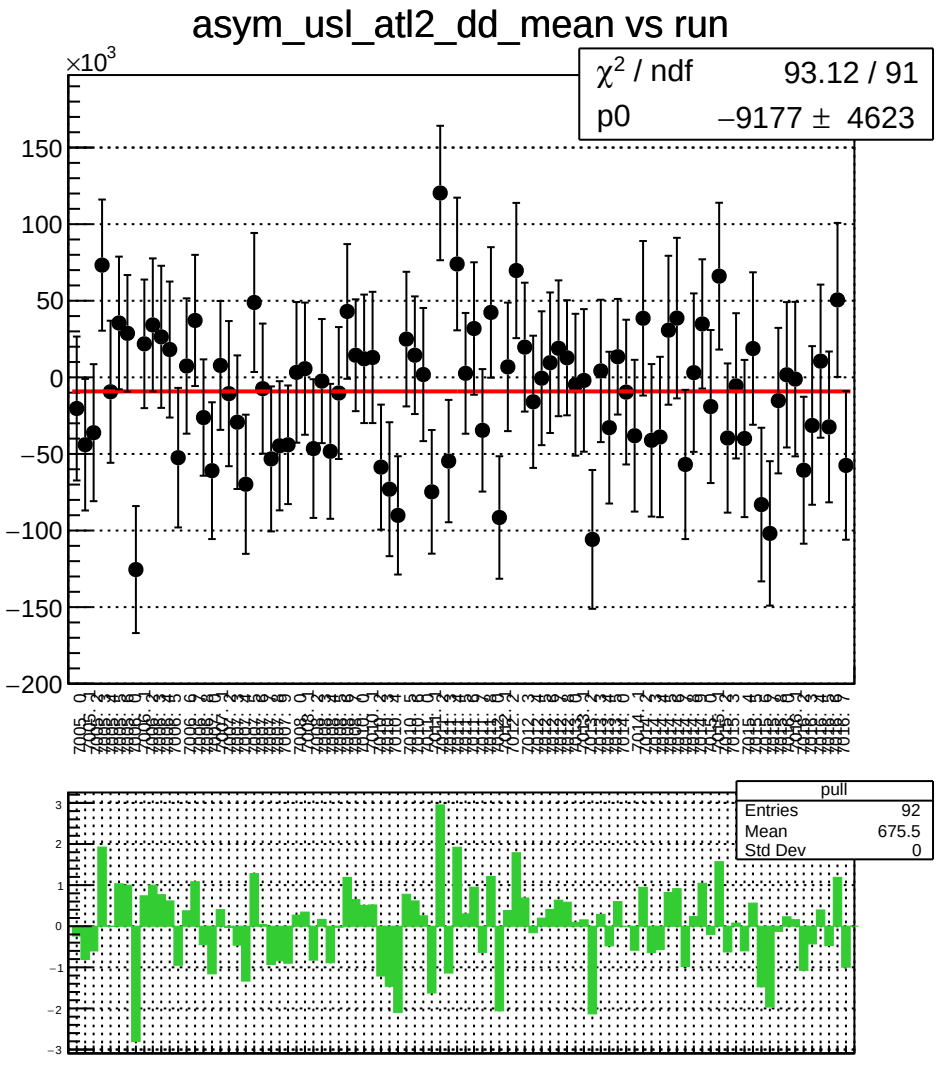

pull1D
Entries 92
Mean −0.003111
Std Dev 0.9352
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

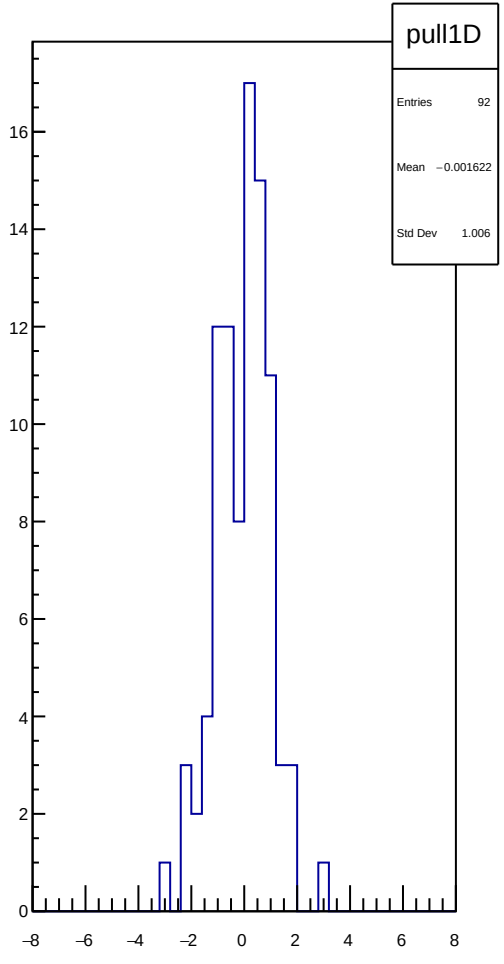

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 310.5 / 91
p0 1227 ± 0.9371
1280
1260
1240
1220
1200
1180

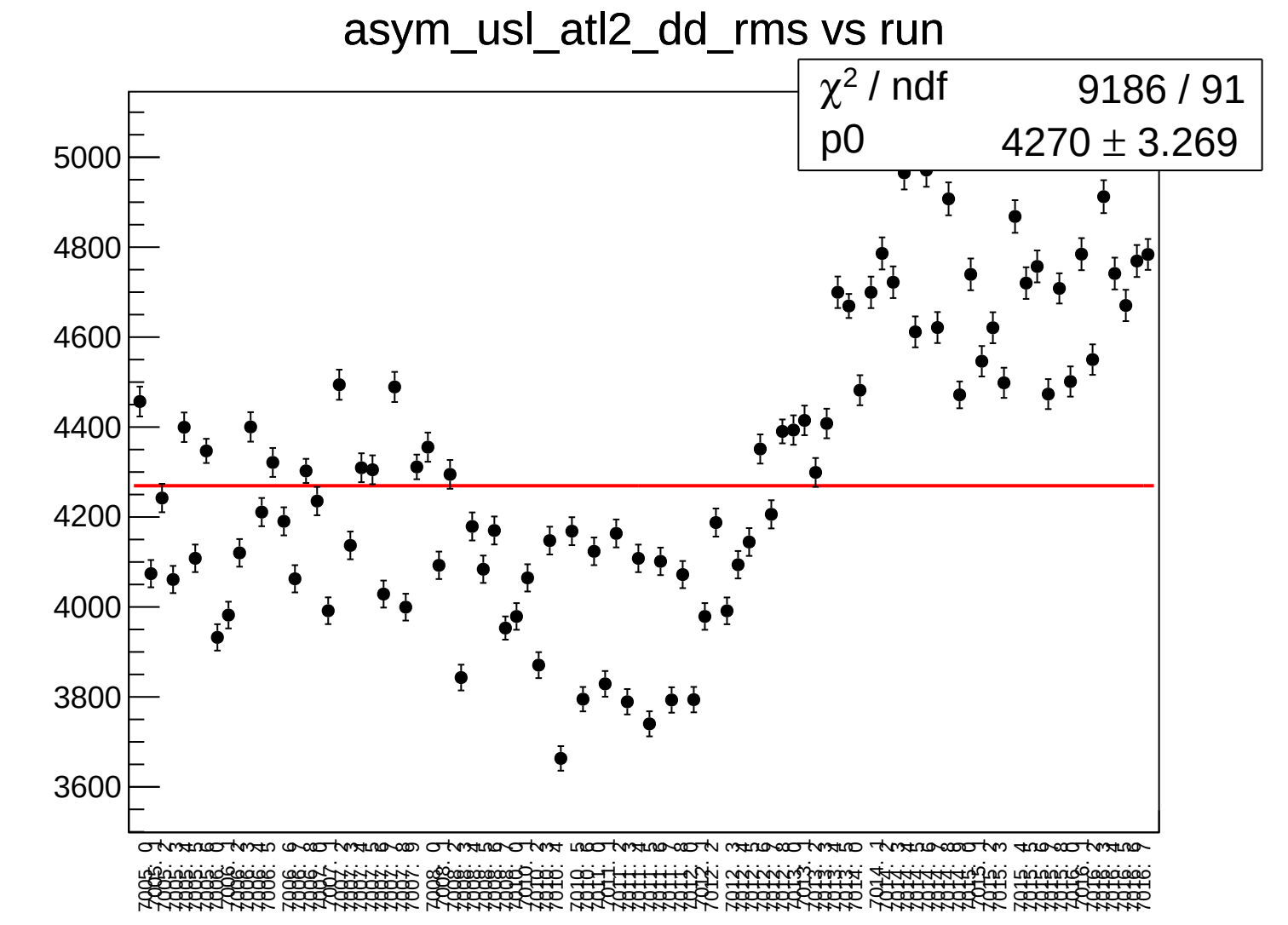

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.6 / 91
p0 1.268e+04 ± 4752
pull
Entries 92
Mean 1297
Std Dev 0

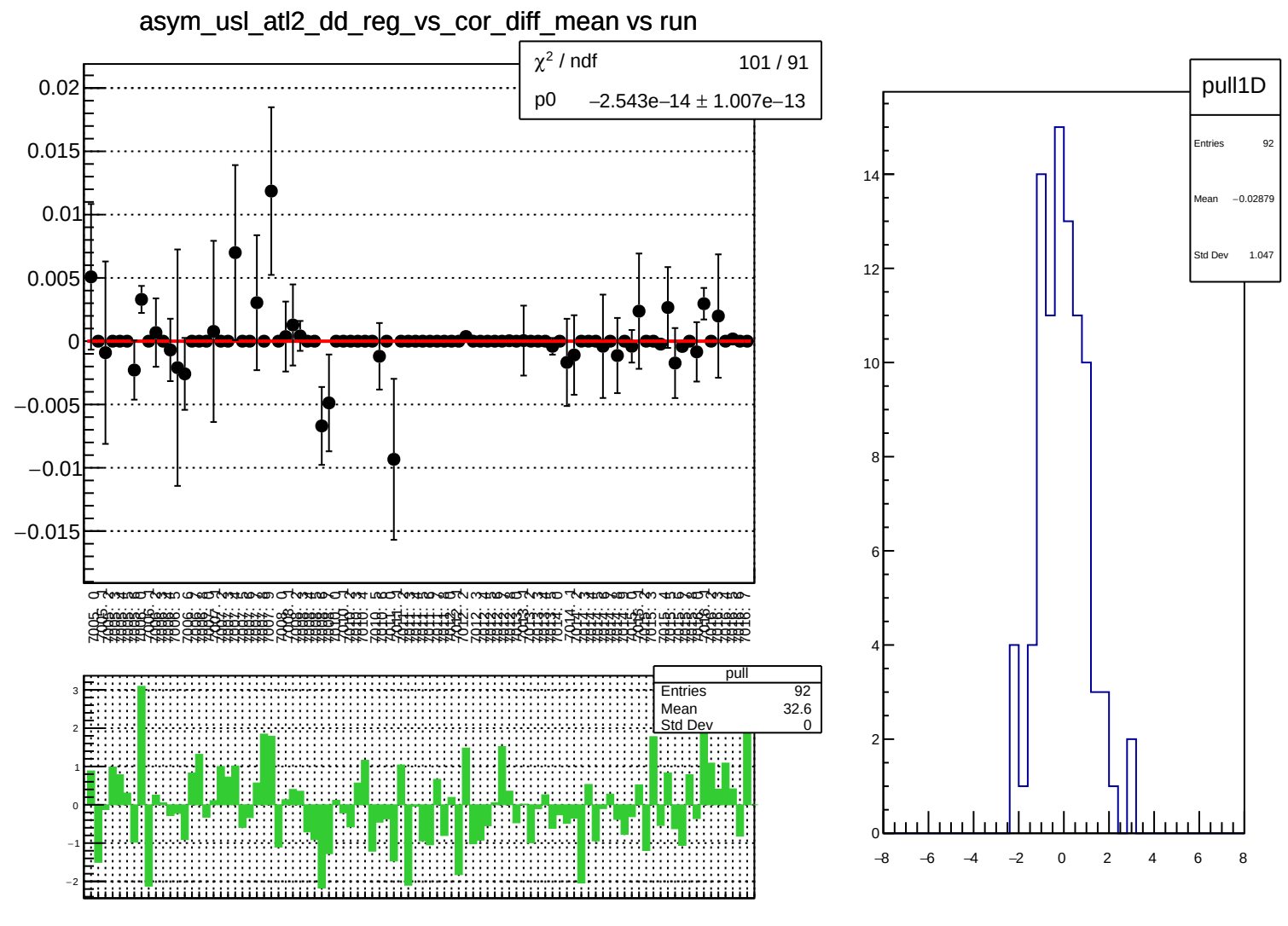

pull1D
Entries 92
Mean 0.0004017
Std Dev 0.9646

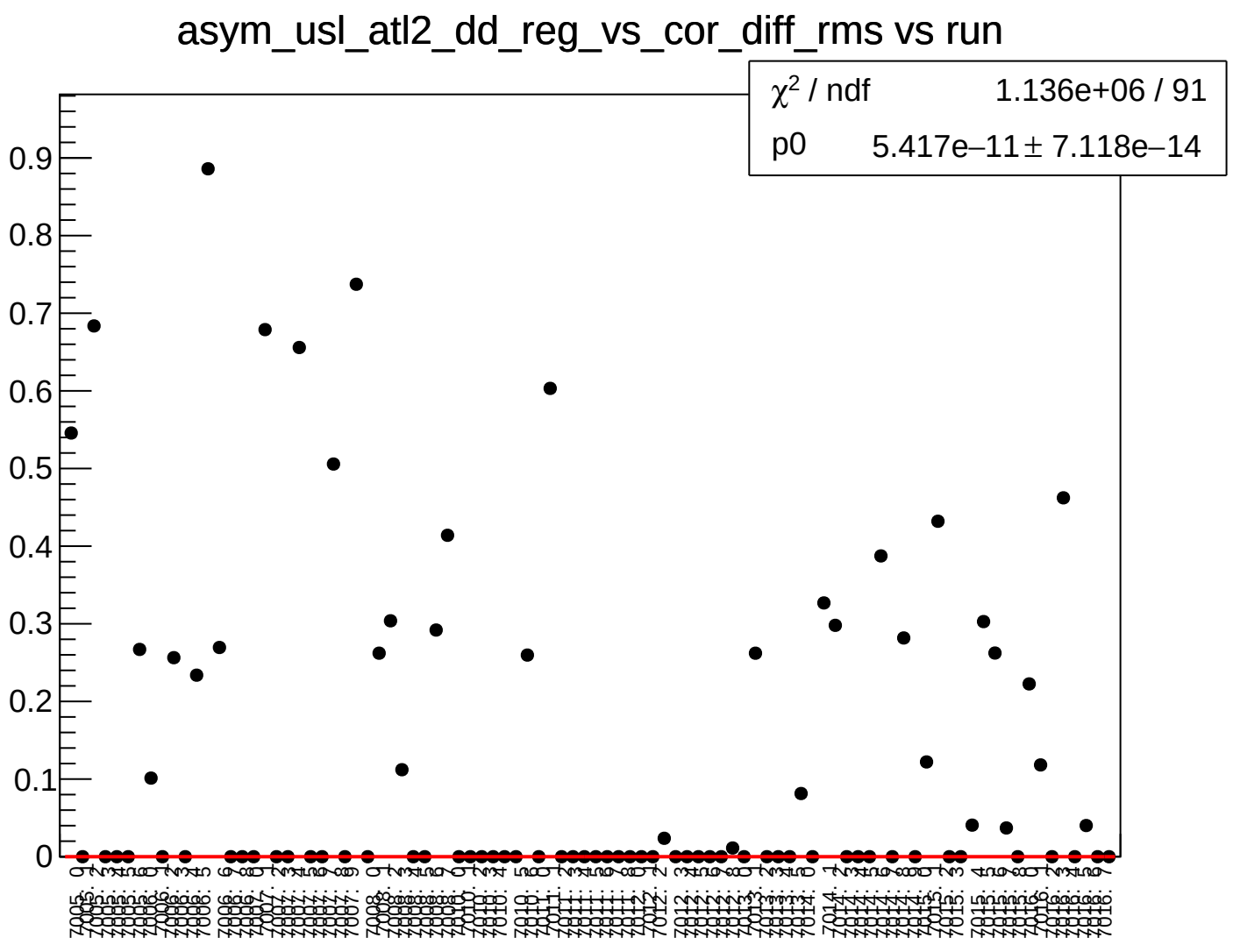

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.055e+04 / 91
p0 4387 ± 3.36
5200
5000
4800
4600
4400
4200
4000
3800
3600

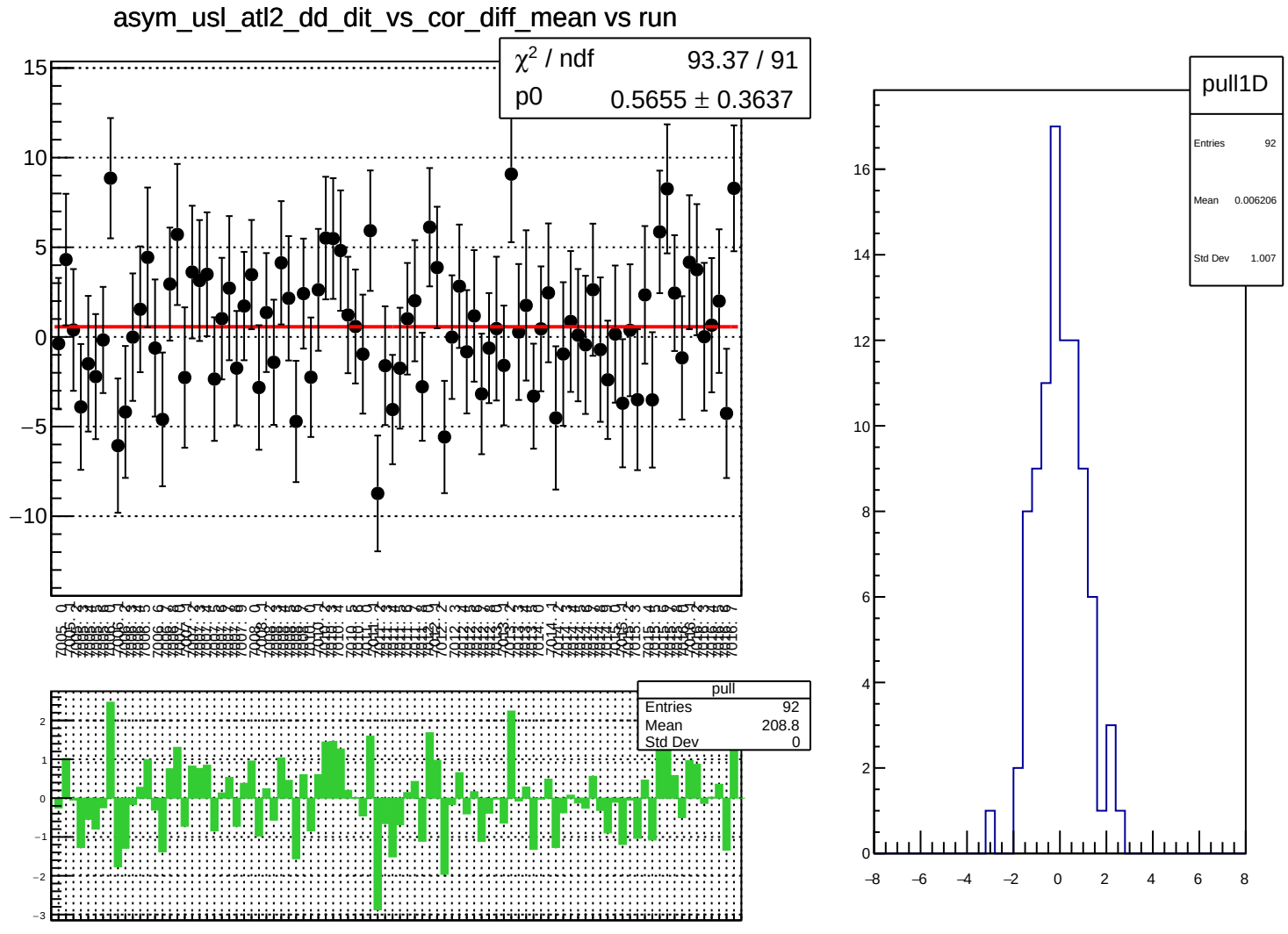

asym_usl_atl2_dd_mean vs run
χ² / ndf 93.12 / 91
p0 −9177 ± 4623
×10³
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 675.5
Std Dev 0
3
2
1
0
−1
−2
−3

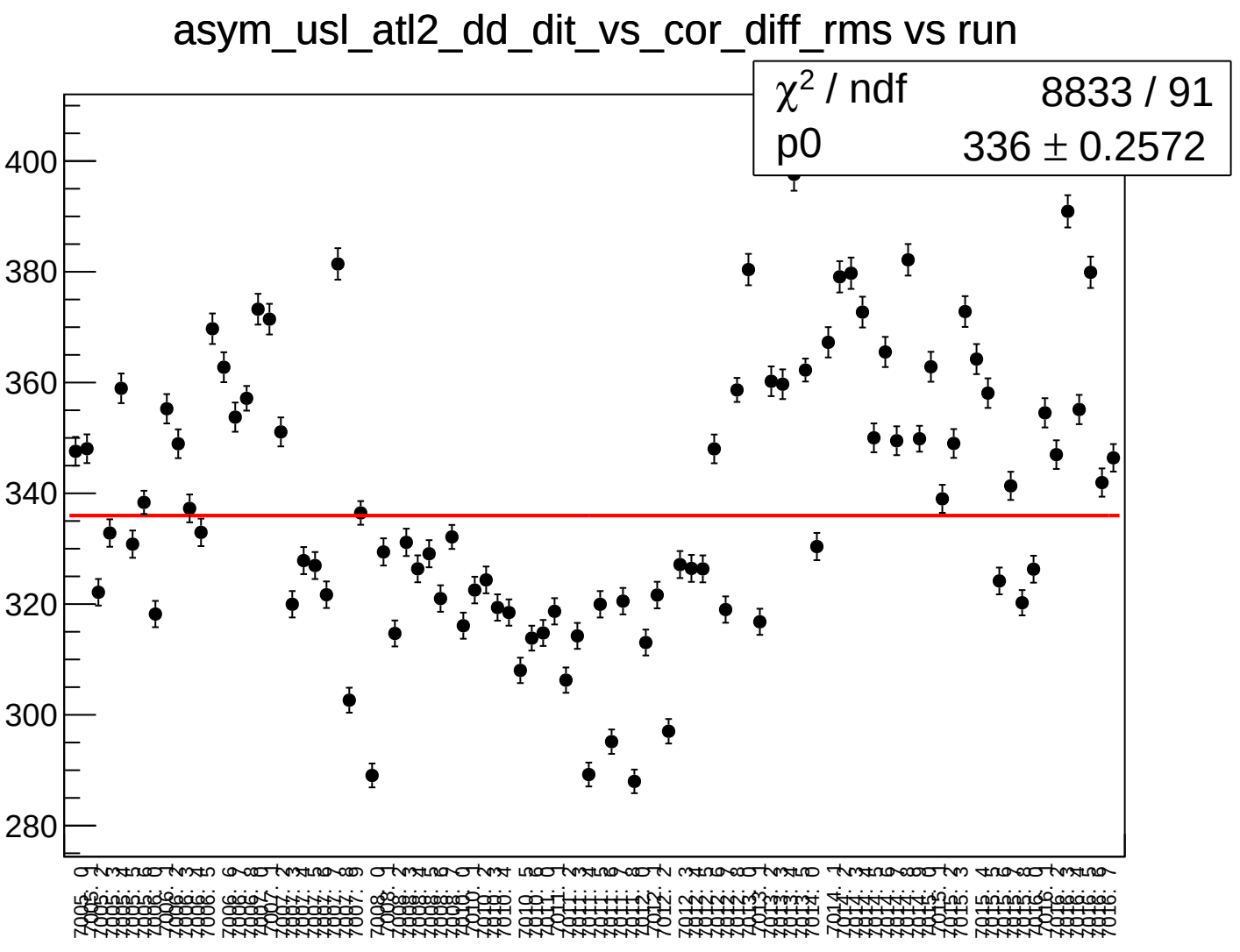

pull1D
Entries 92
Mean −0.001622
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

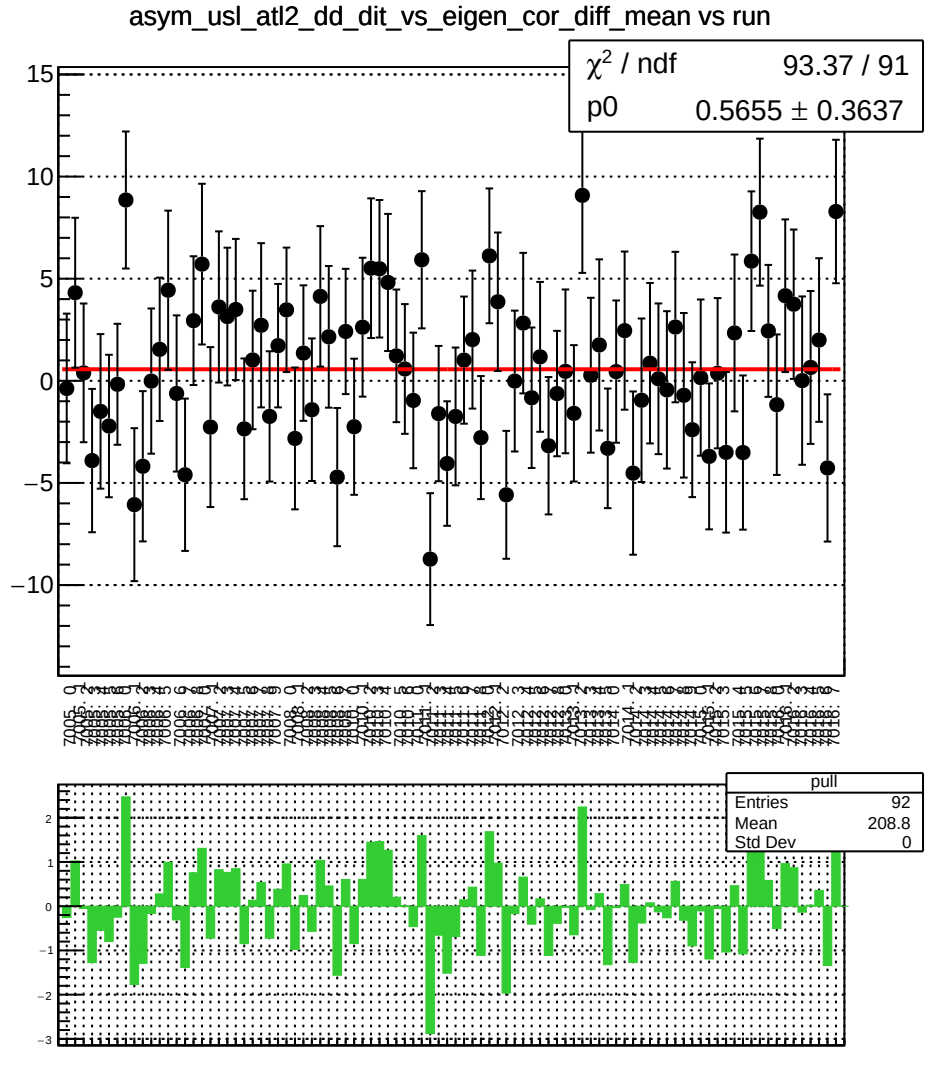

asym_usl_atl2_dd_rms vs run
χ² / ndf 9186 / 91
p0 4270 ± 3.269
5000
4800
4600
4400
4200
4000
3800
3600

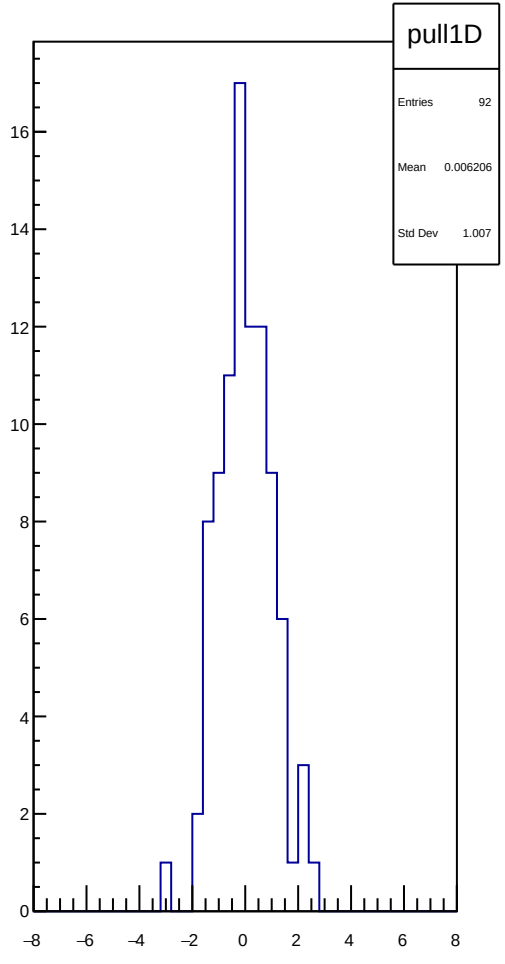

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 91
p0 −2.543e−14 ± 1.007e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 92
Mean 32.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.02879
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

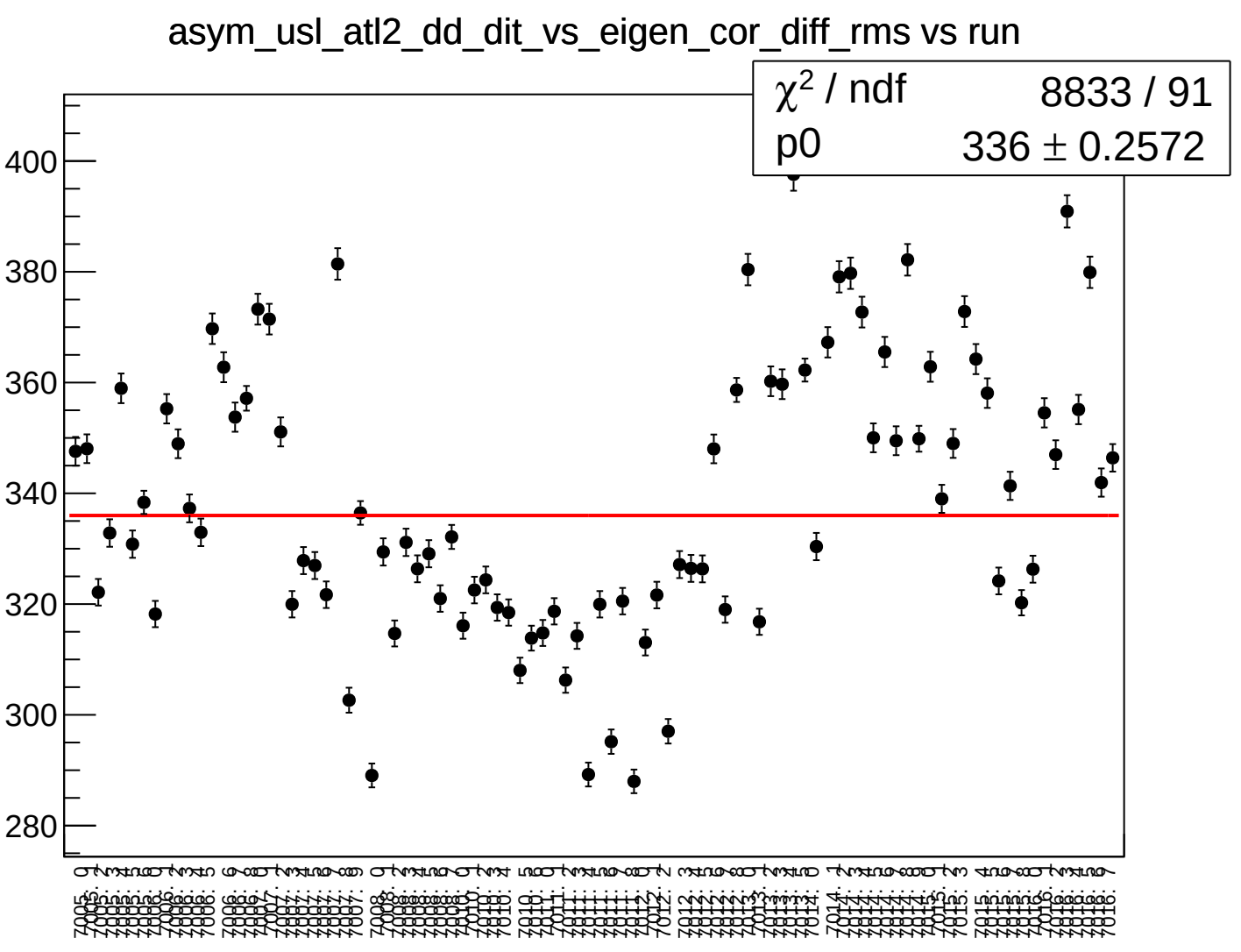

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.136e+06 / 91
p0 5.417e−11 ± 7.118e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

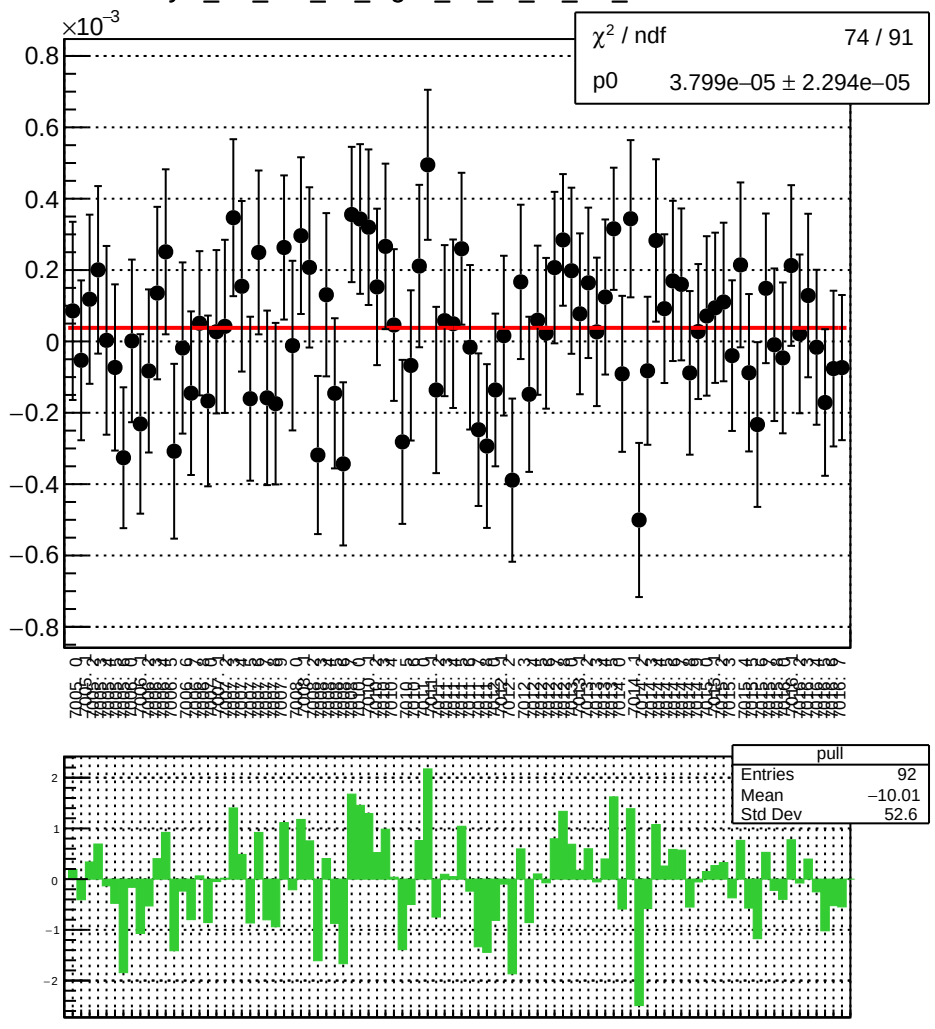

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.37 / 91
p0 0.5655 ± 0.3637
pull
Entries 92
Mean 208.8
Std Dev 0
pull1D
Entries 92
Mean 0.006206
Std Dev 1.007

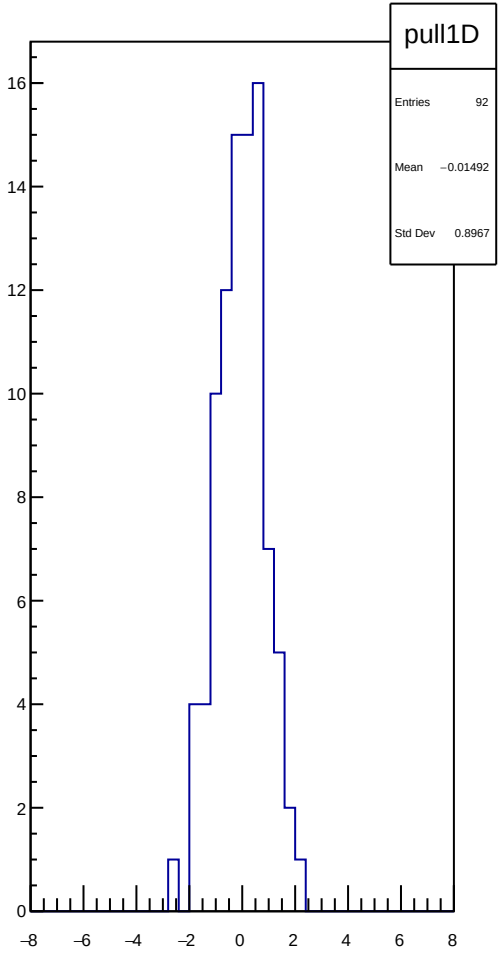

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8833 / 91
p0 336 ± 0.2572
400
380
360
340
320
300
280

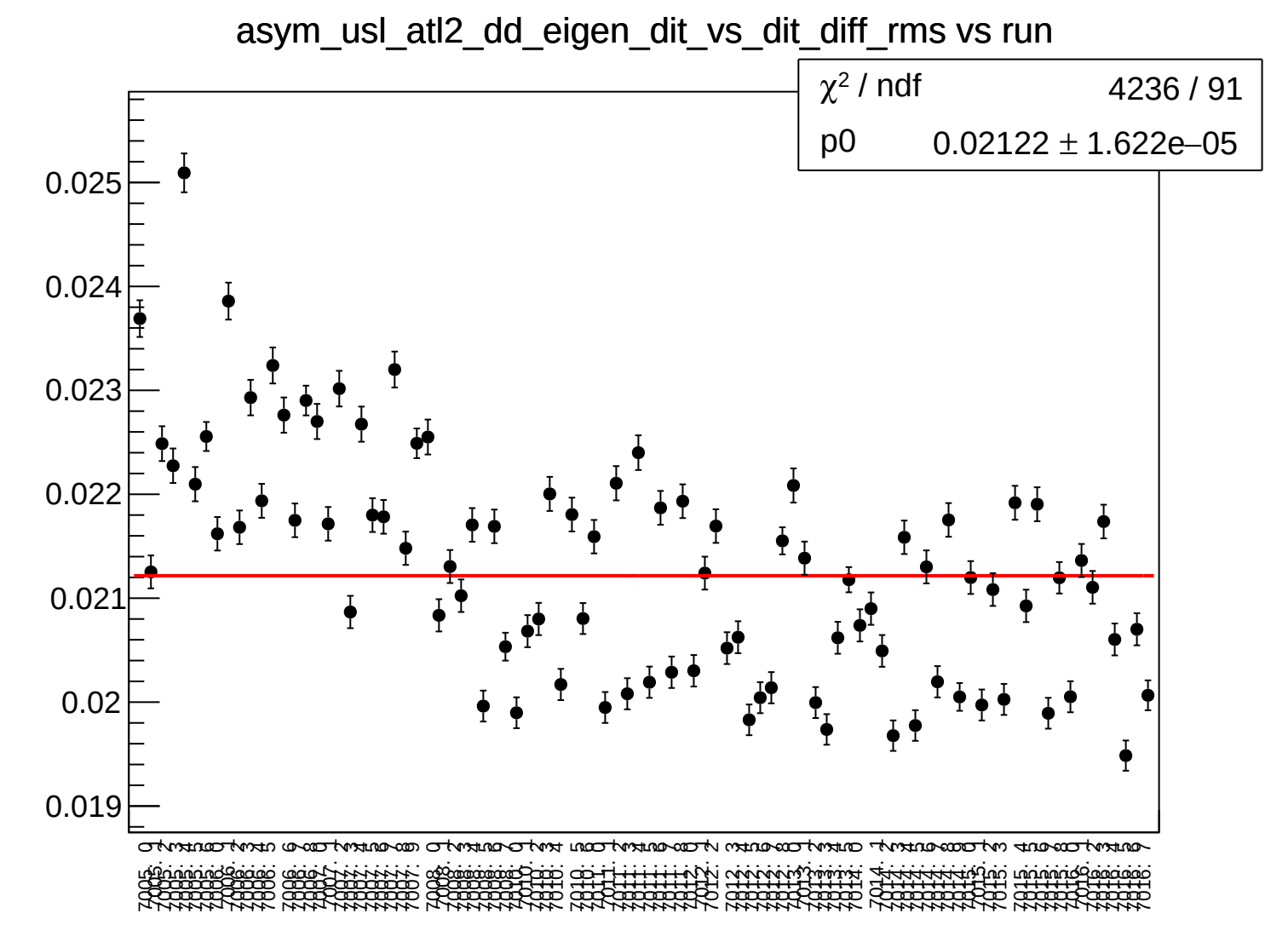

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.37 / 91
p0 0.5655 ± 0.3637
pull
Entries 92
Mean 208.8
Std Dev 0

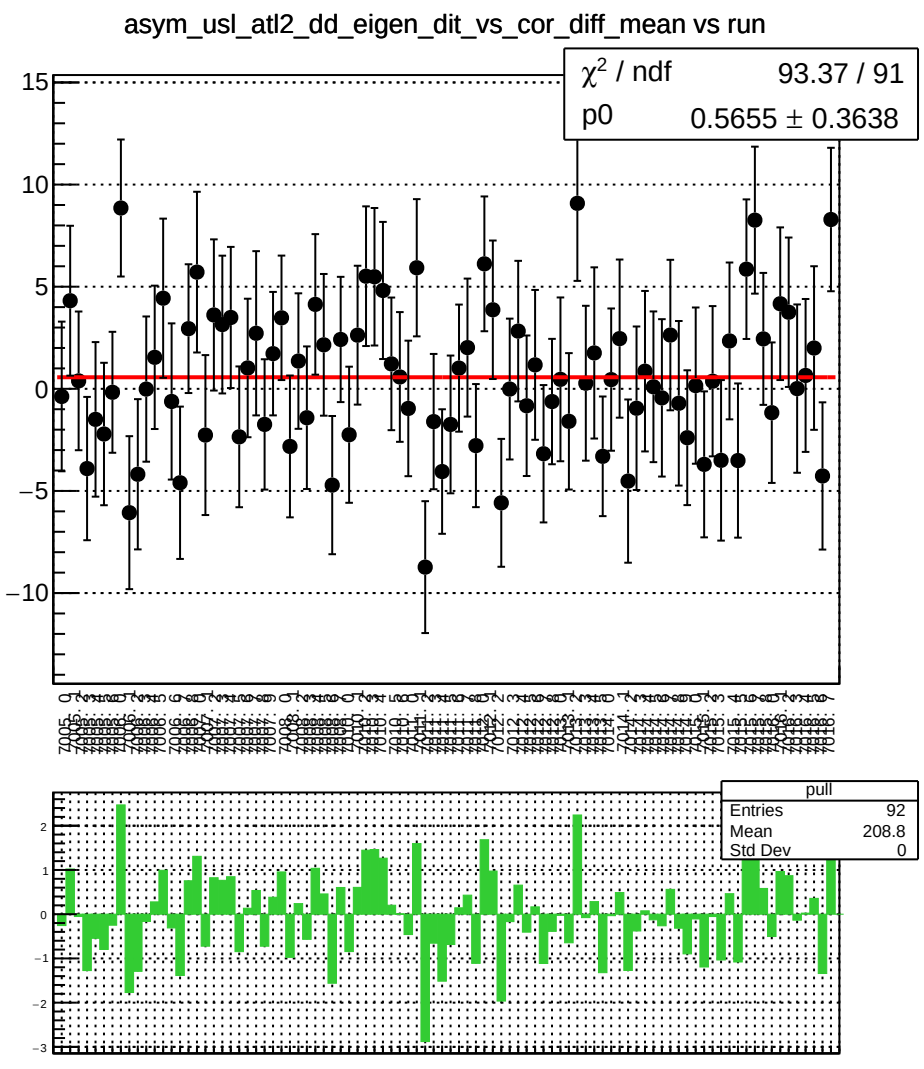

pull1D
Entries 92
Mean 0.006206
Std Dev 1.007

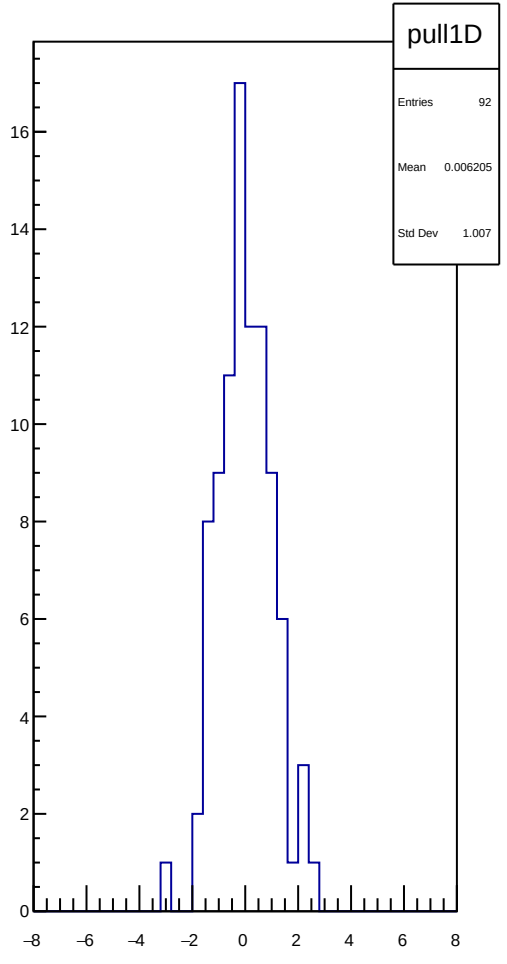

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8833 / 91
p0 336 ± 0.2572
400
380
360
340
320
300
280

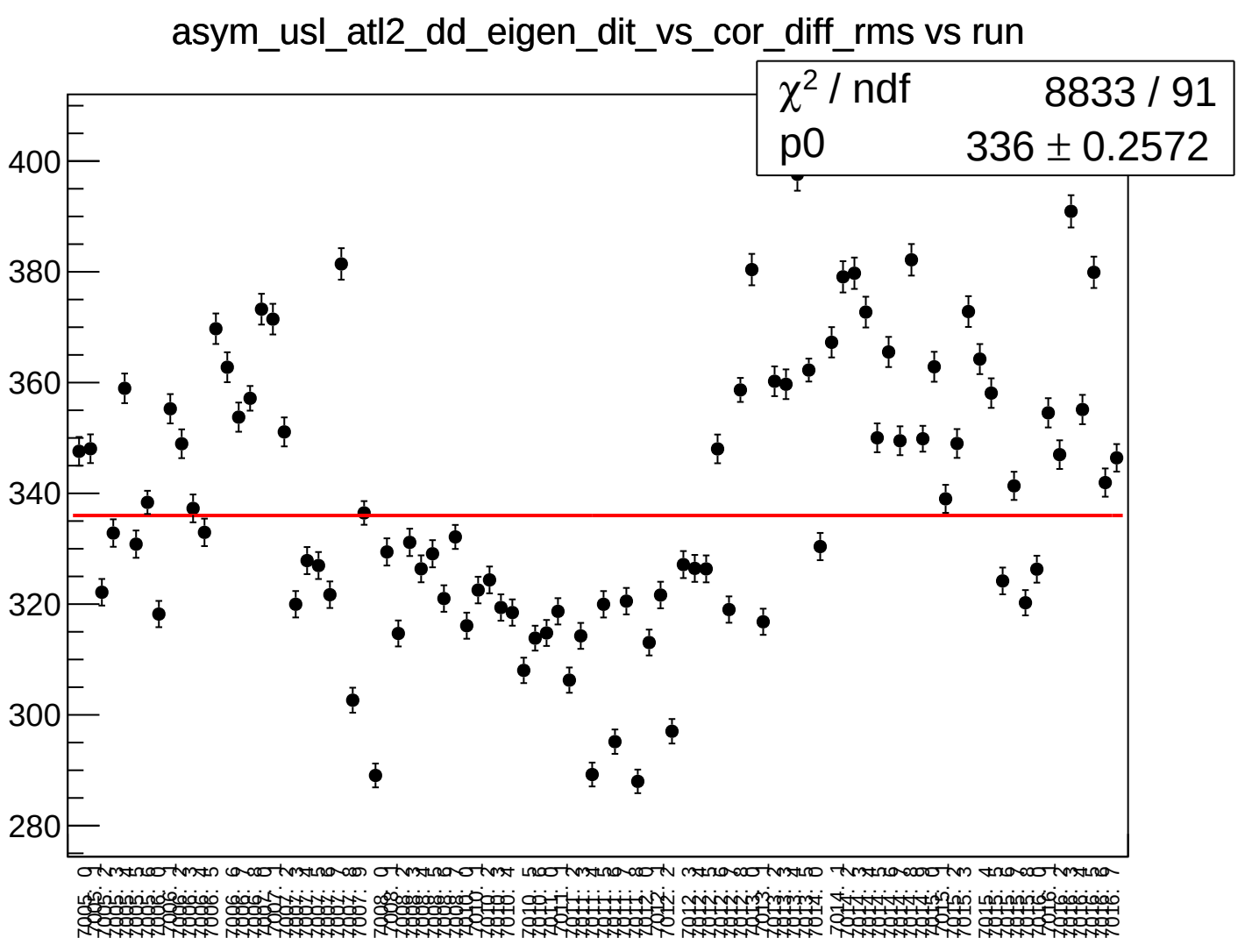

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74 / 91
p0 3.799e−05 ± 2.294e−05
pull
Entries 92
Mean −10.01
Std Dev 52.6

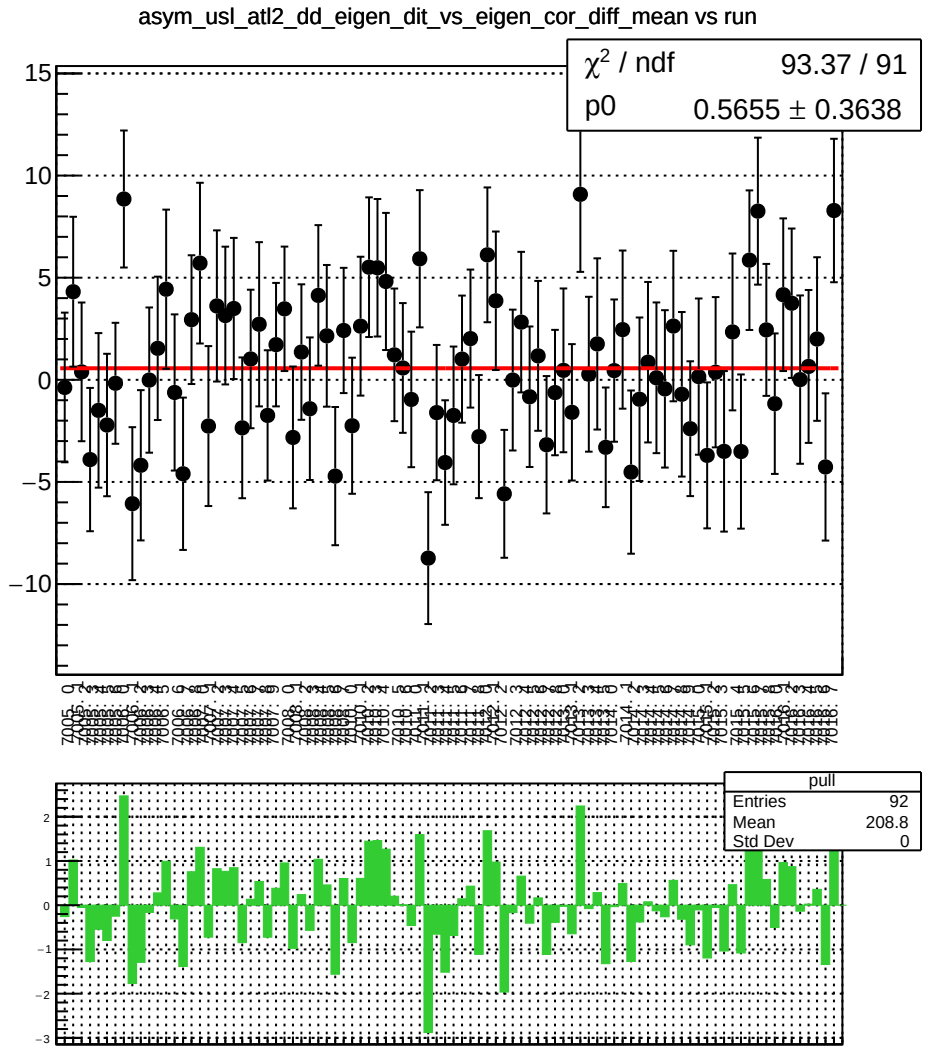

pull1D
Entries 92
Mean −0.01492
Std Dev 0.8967

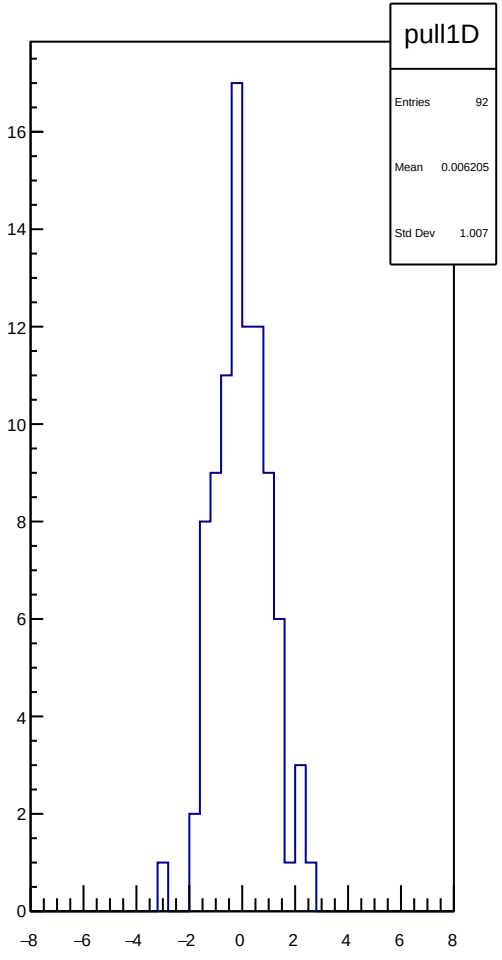

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4236 / 91
p0 0.02122 ± 1.622e−05
0.025
0.024
0.023
0.022
0.021
0.02
0.019

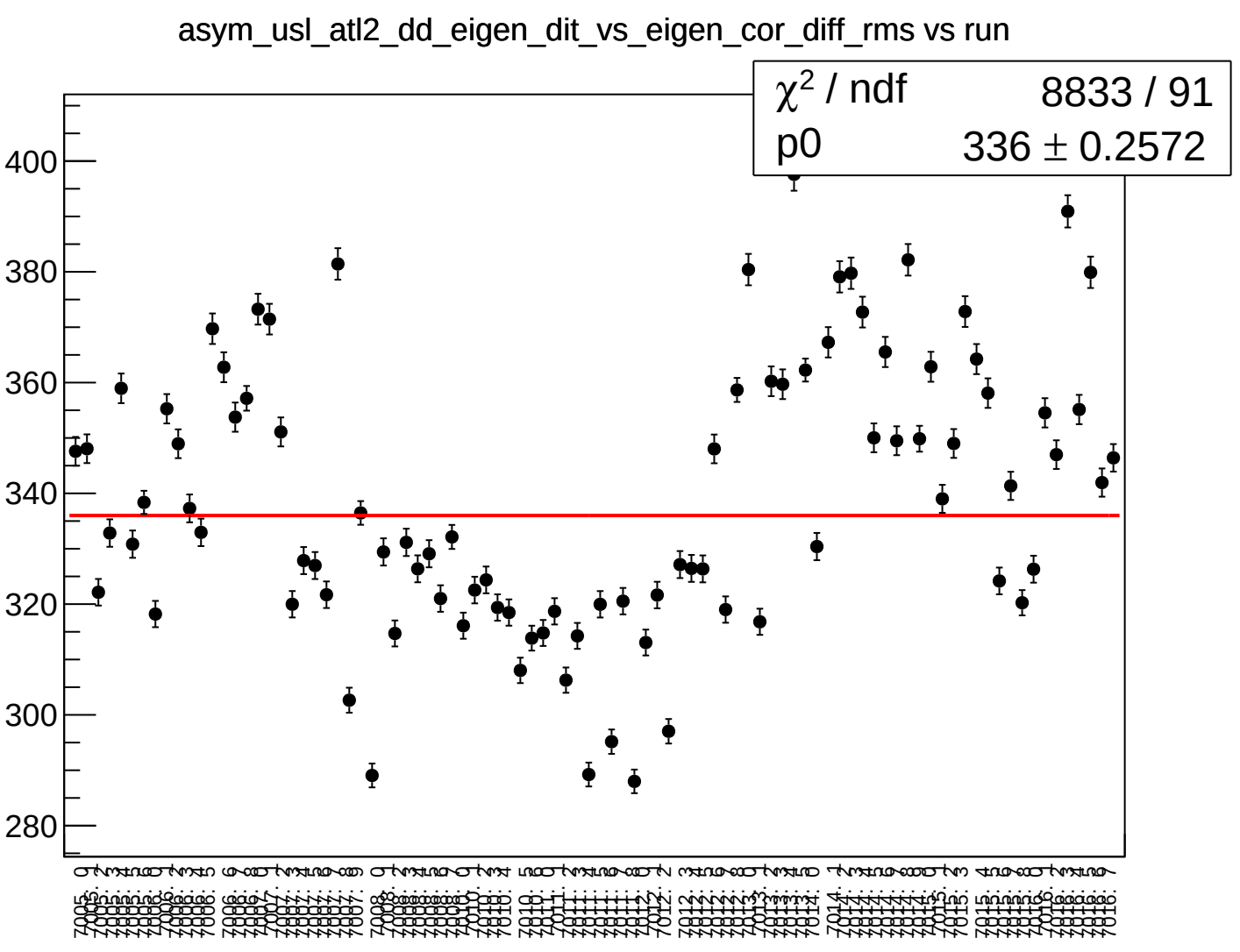

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.37 / 91
p0 0.5655 ± 0.3638
pull
Entries 92
Mean 208.8
Std Dev 0

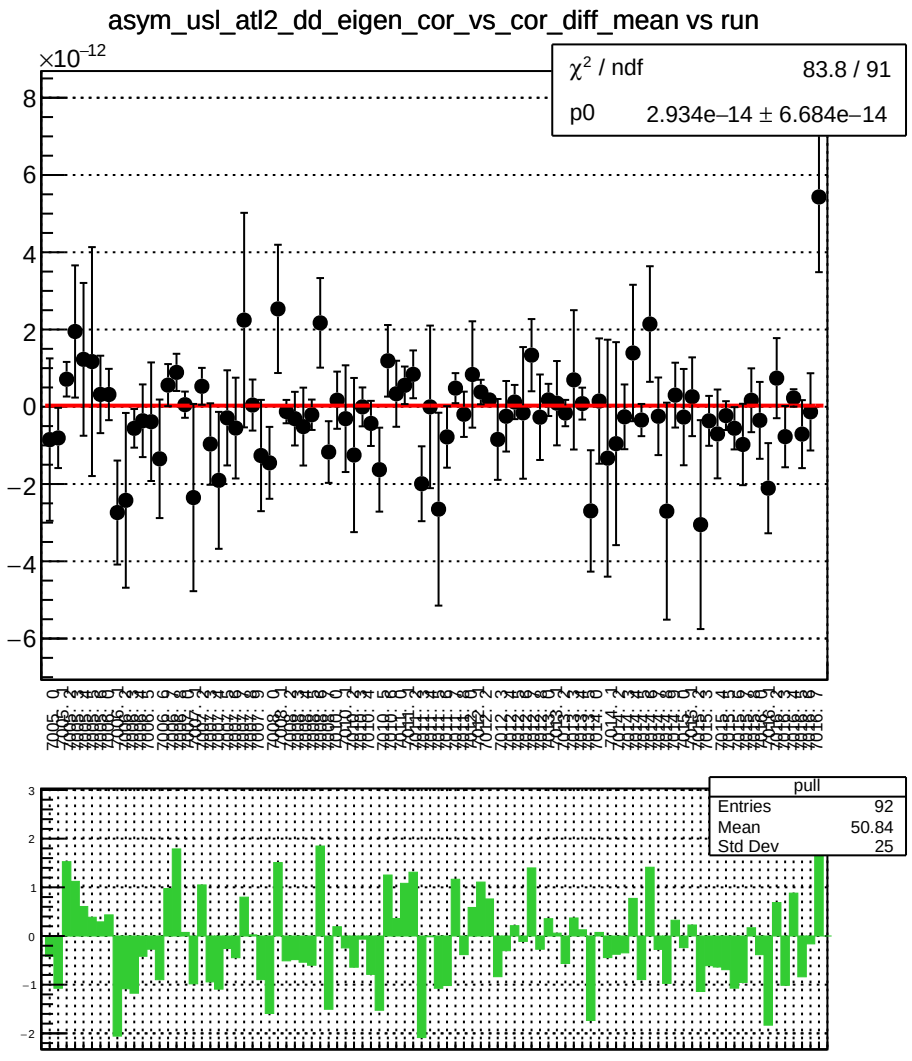

pull1D
Entries 92
Mean 0.006205
Std Dev 1.007

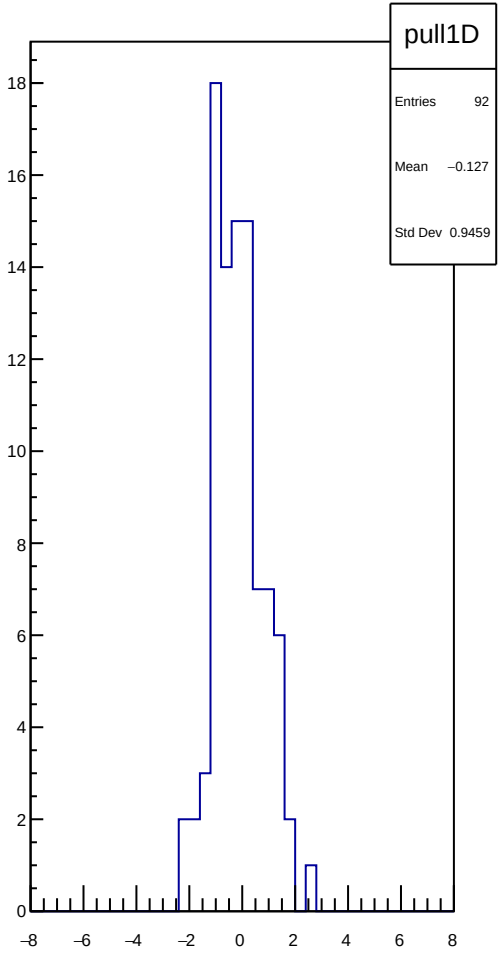

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8833 / 91
p0 336 ± 0.2572
400
380
360
340
320
300
280

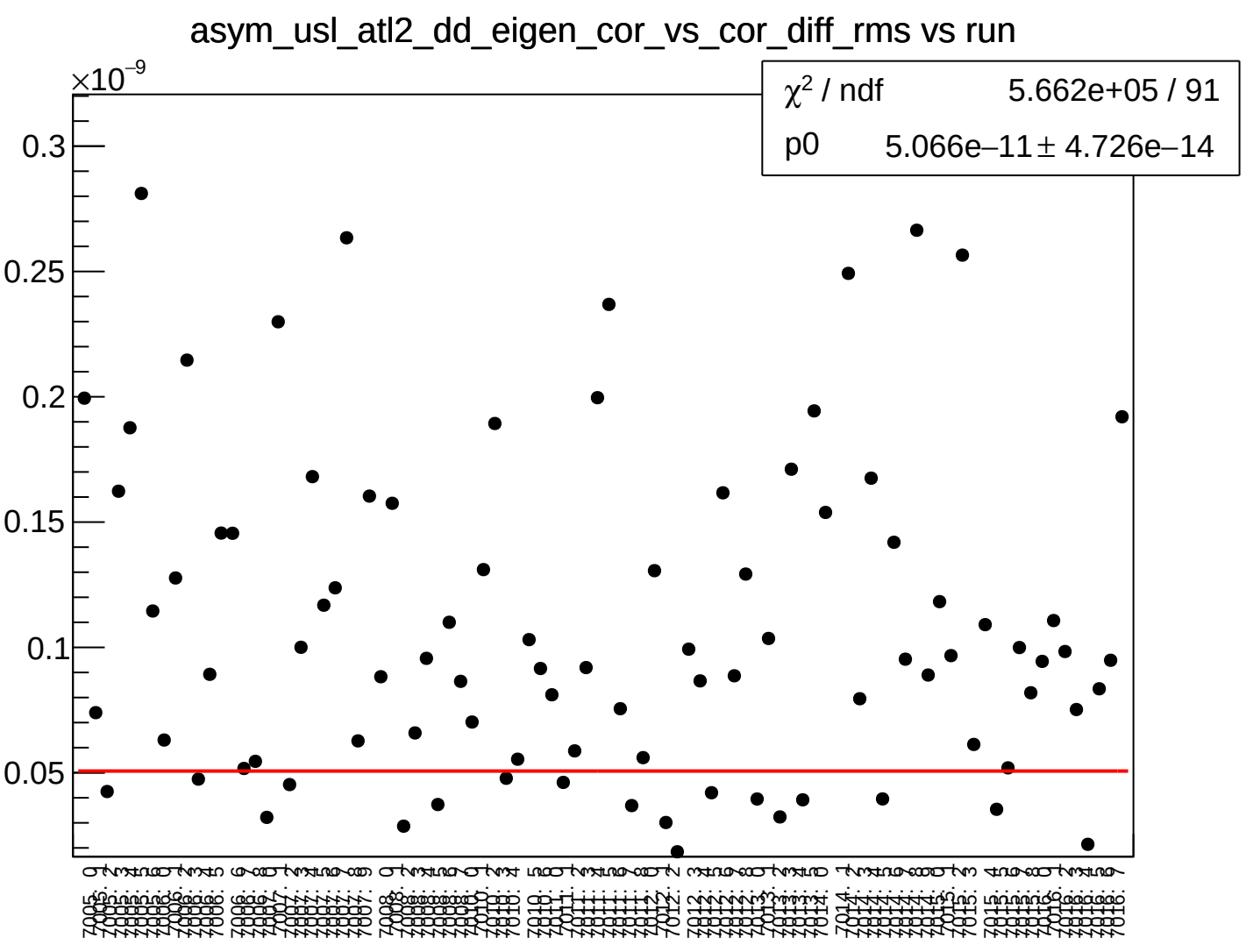

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.37 / 91
p0 0.5655 ± 0.3638
pull
Entries 92
Mean 208.8
Std Dev 0

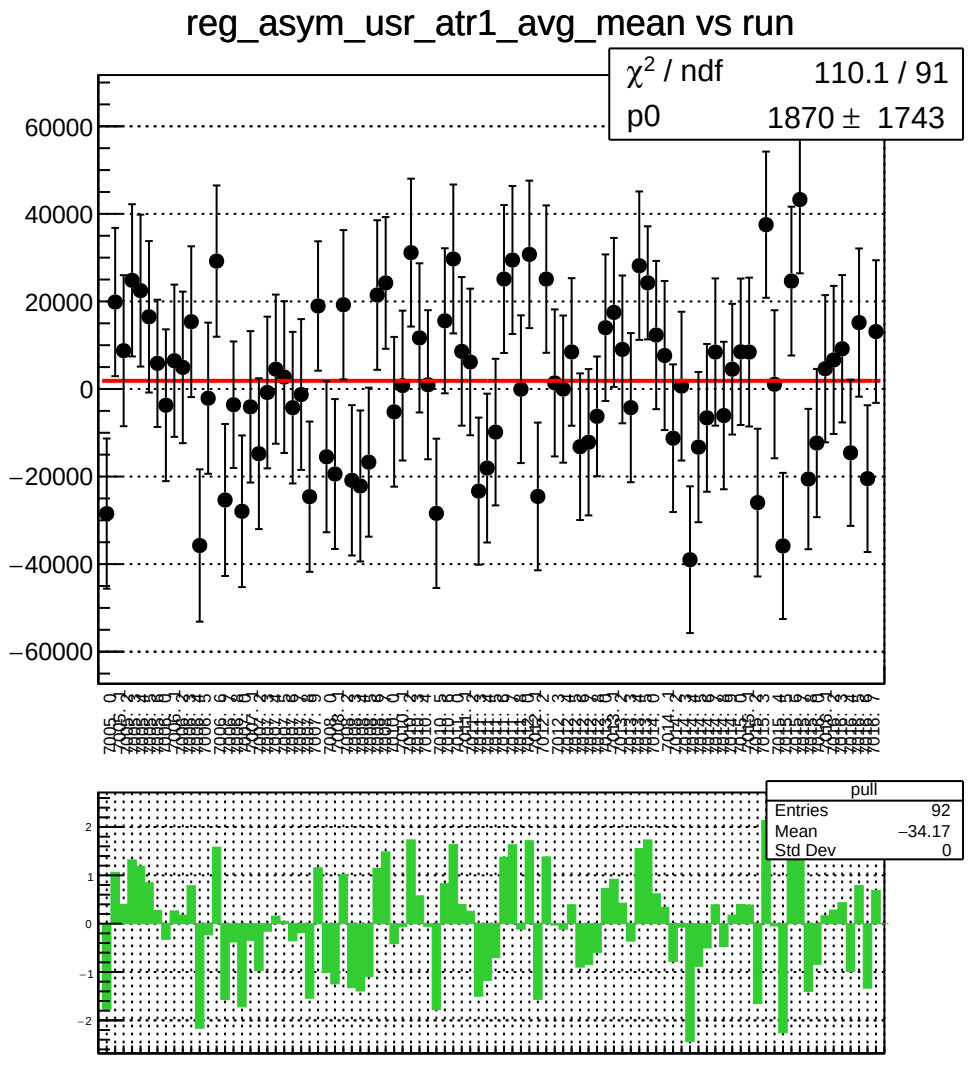

pull1D
Entries 92
Mean 0.006205
Std Dev 1.007

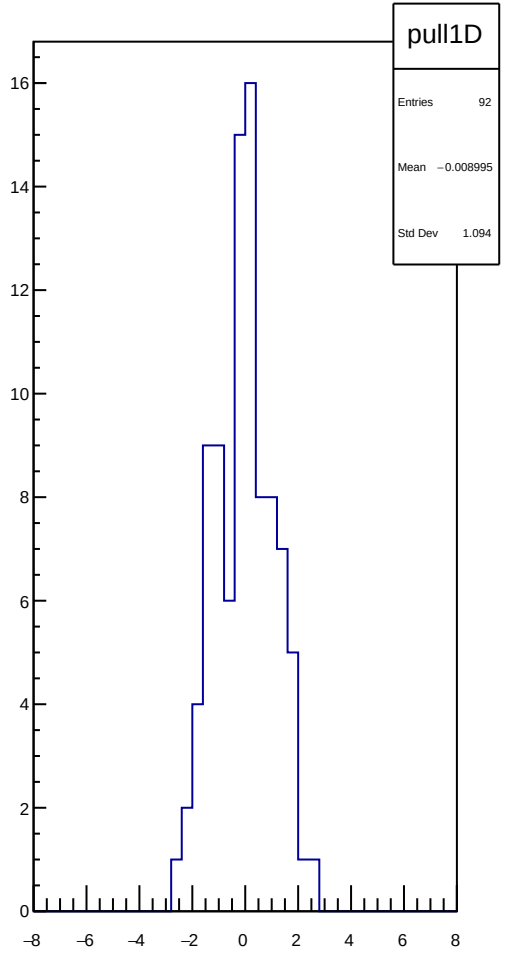

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8833 / 91
p0 336 ± 0.2572
400
380
360
340
320
300
280

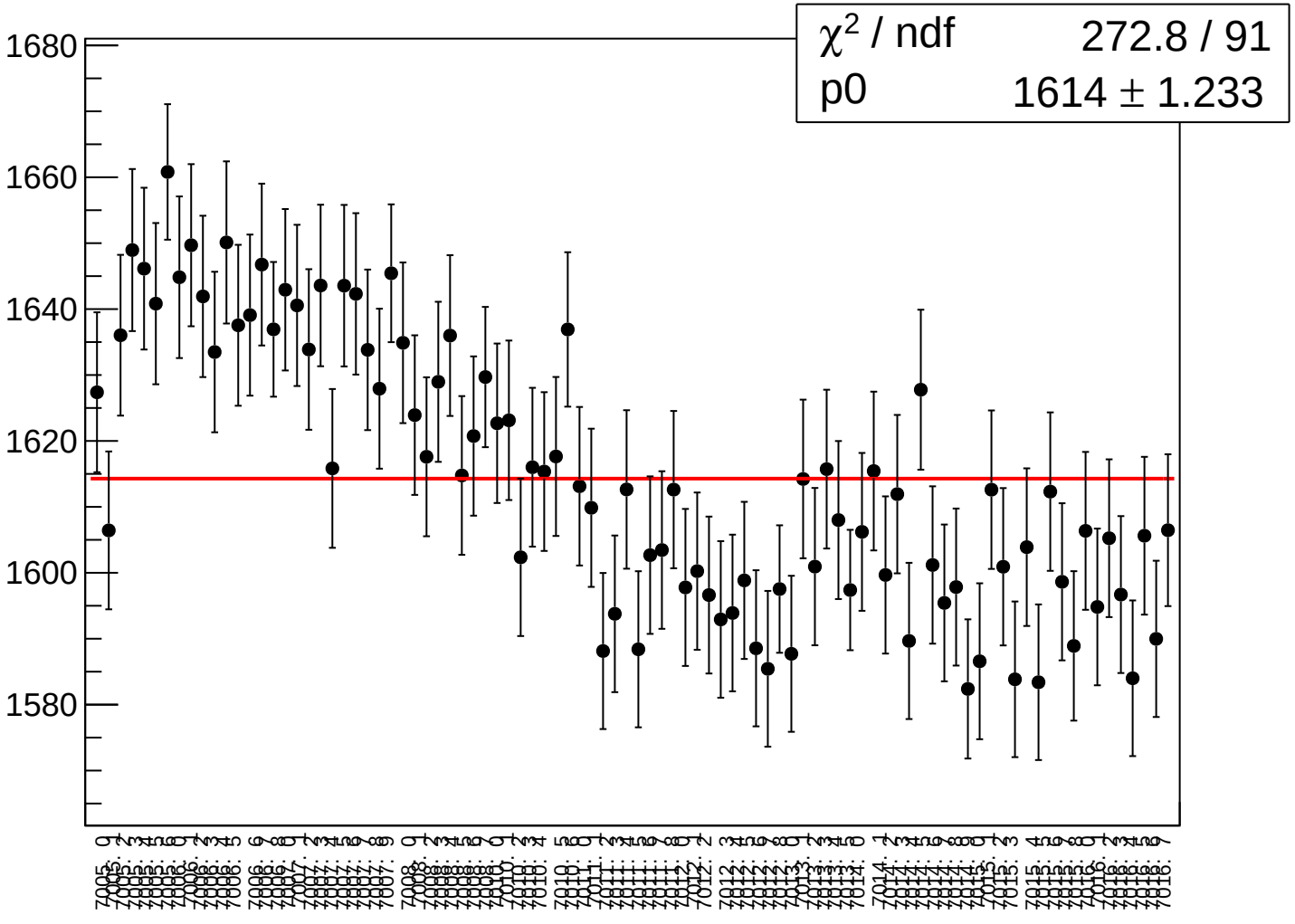

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.8 / 91
p0 2.934e−14 ± 6.684e−14
pull
Entries 92
Mean 50.84
Std Dev 25

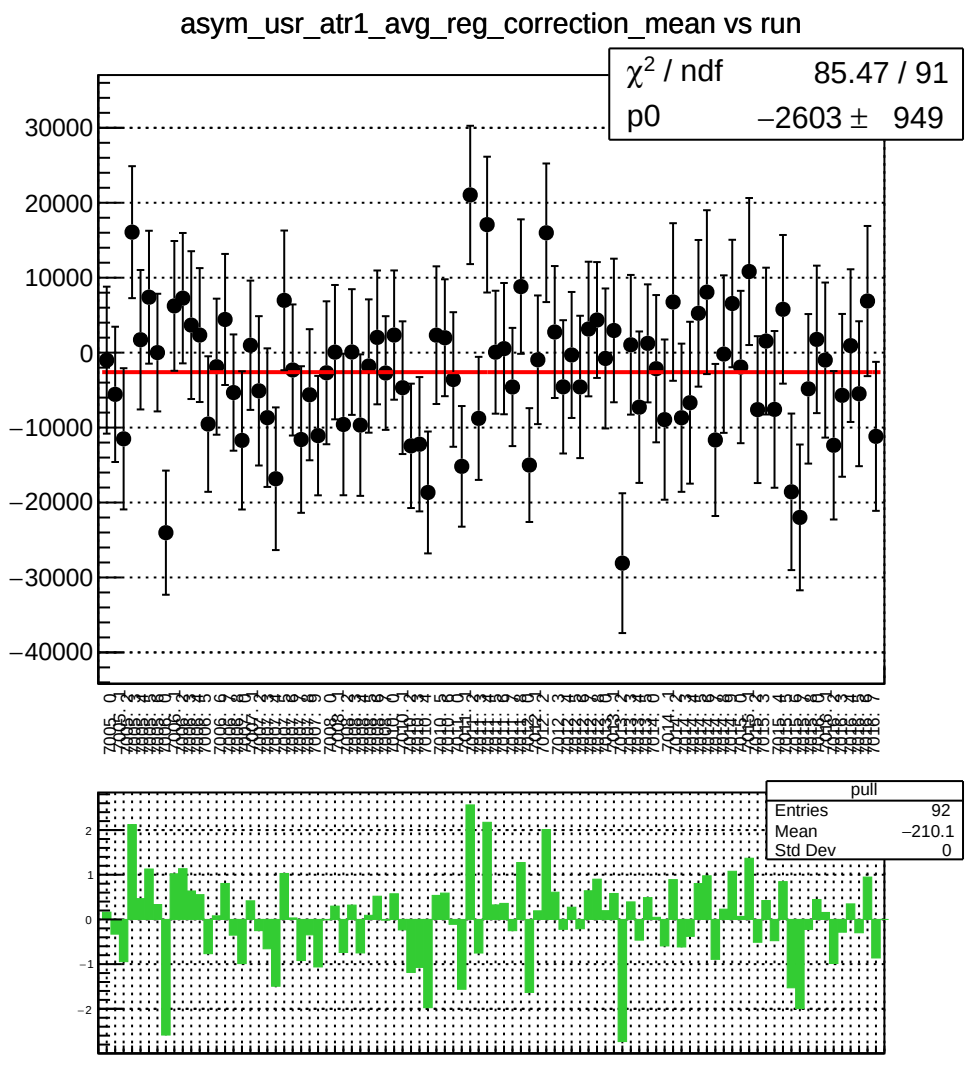

pull1D
Entries 92
Mean −0.127
Std Dev 0.9459

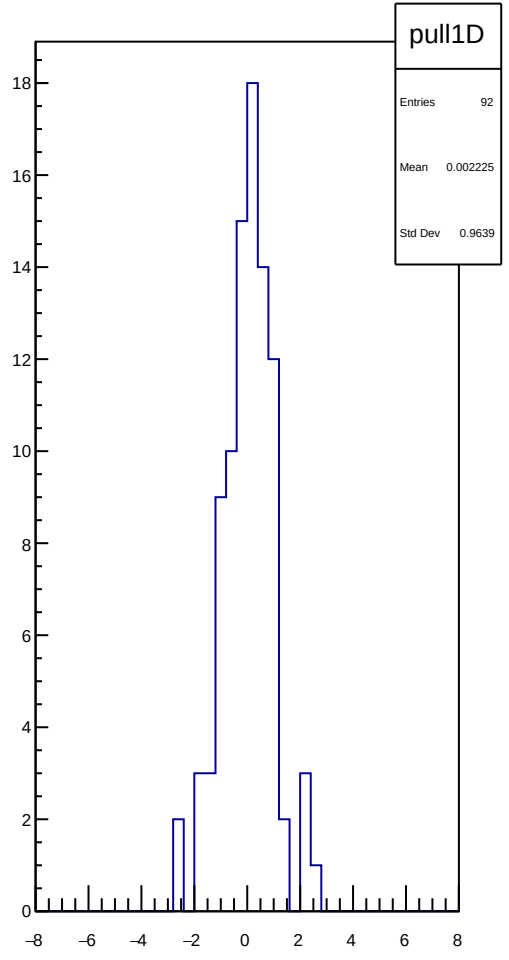

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.662e+05 / 91
p0 5.066e−11 ± 4.726e−14
0.3
0.25
0.2
0.15
0.1
0.05

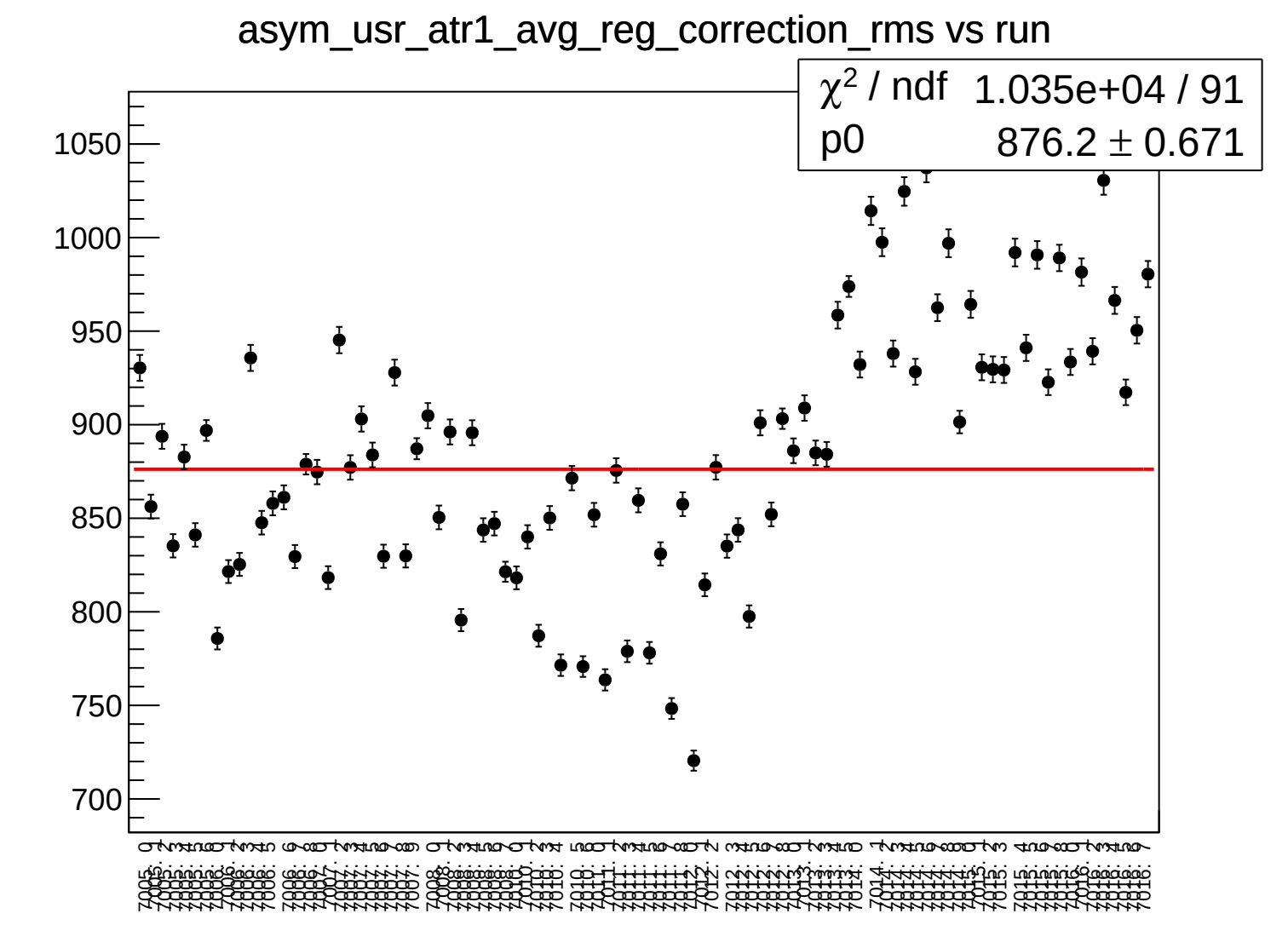

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 110.1 / 91
p0 1870 ± 1743
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −34.17
Std Dev 0
2
1
0
−1
−2

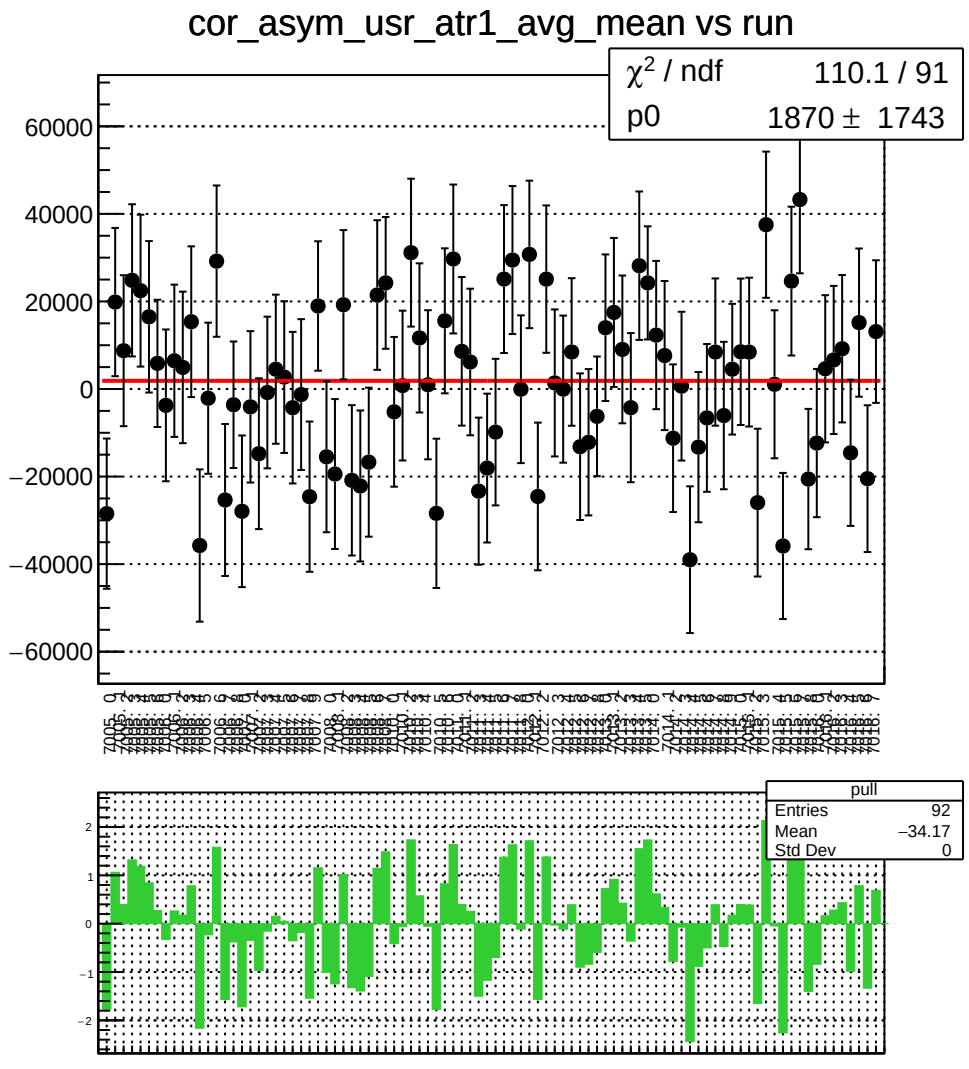

pull1D
Entries 92
Mean −0.008995
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

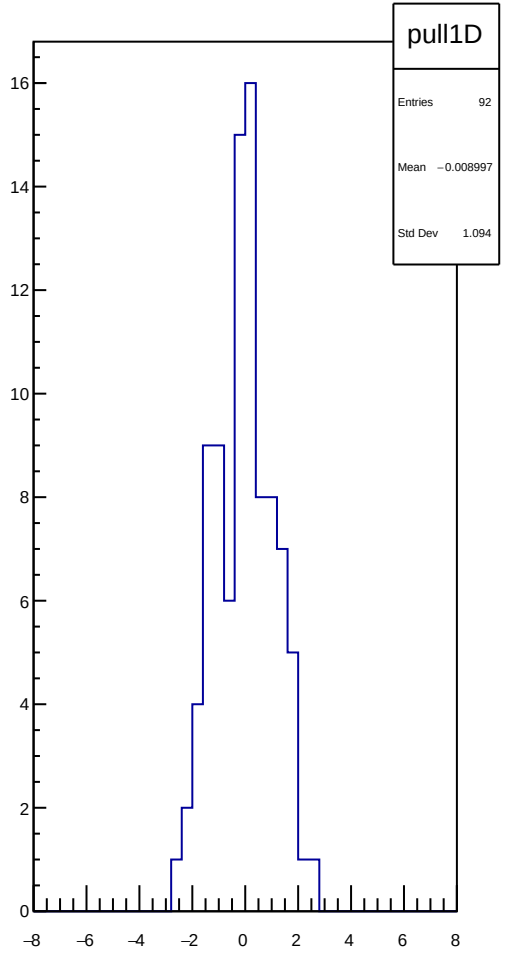

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 272.8 / 91
p0 1614 ± 1.233
1680
1660
1640
1620
1600
1580

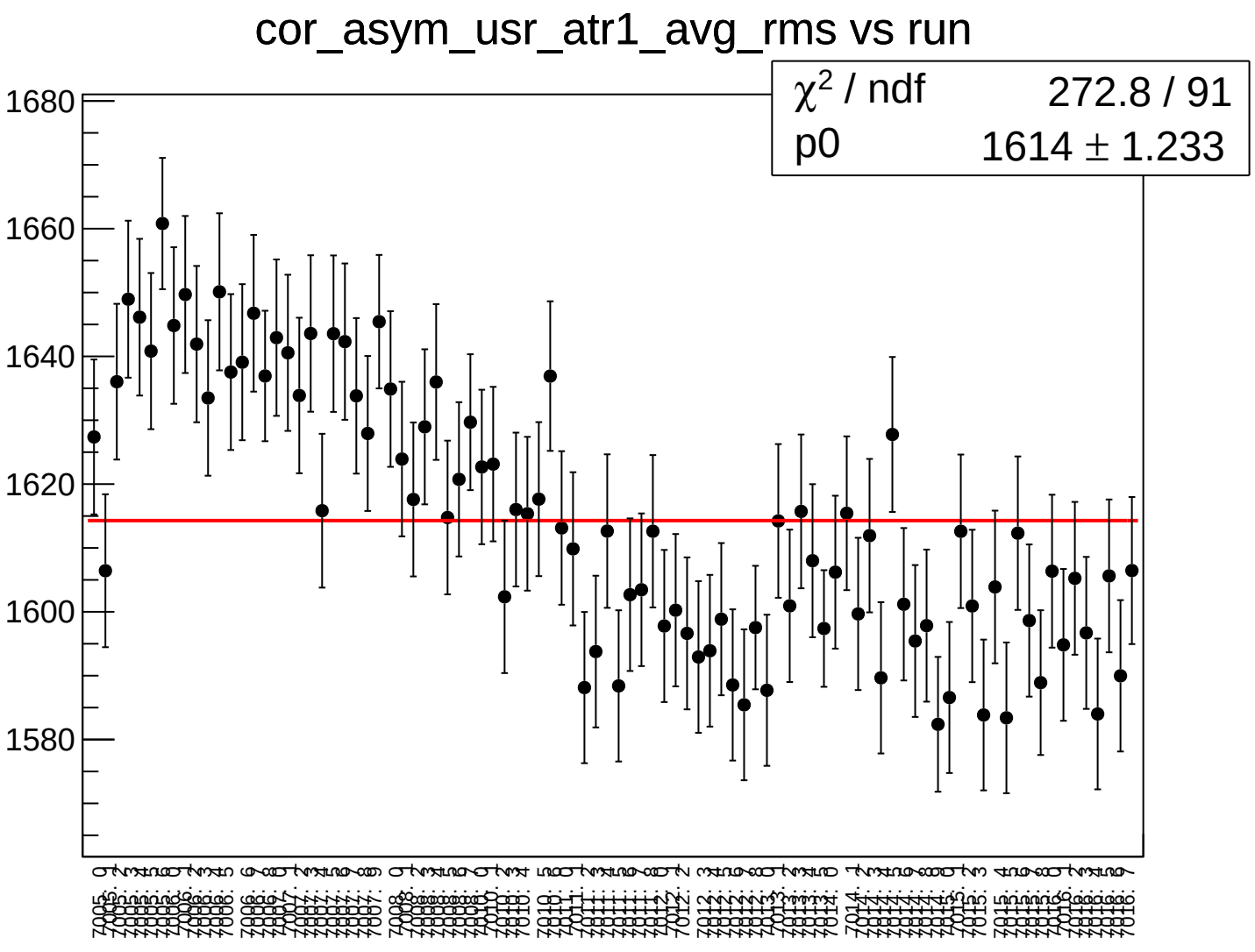

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 85.47 / 91
p0 −2603 ± 949
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −210.1
Std Dev 0
2
1
0
−1
−2

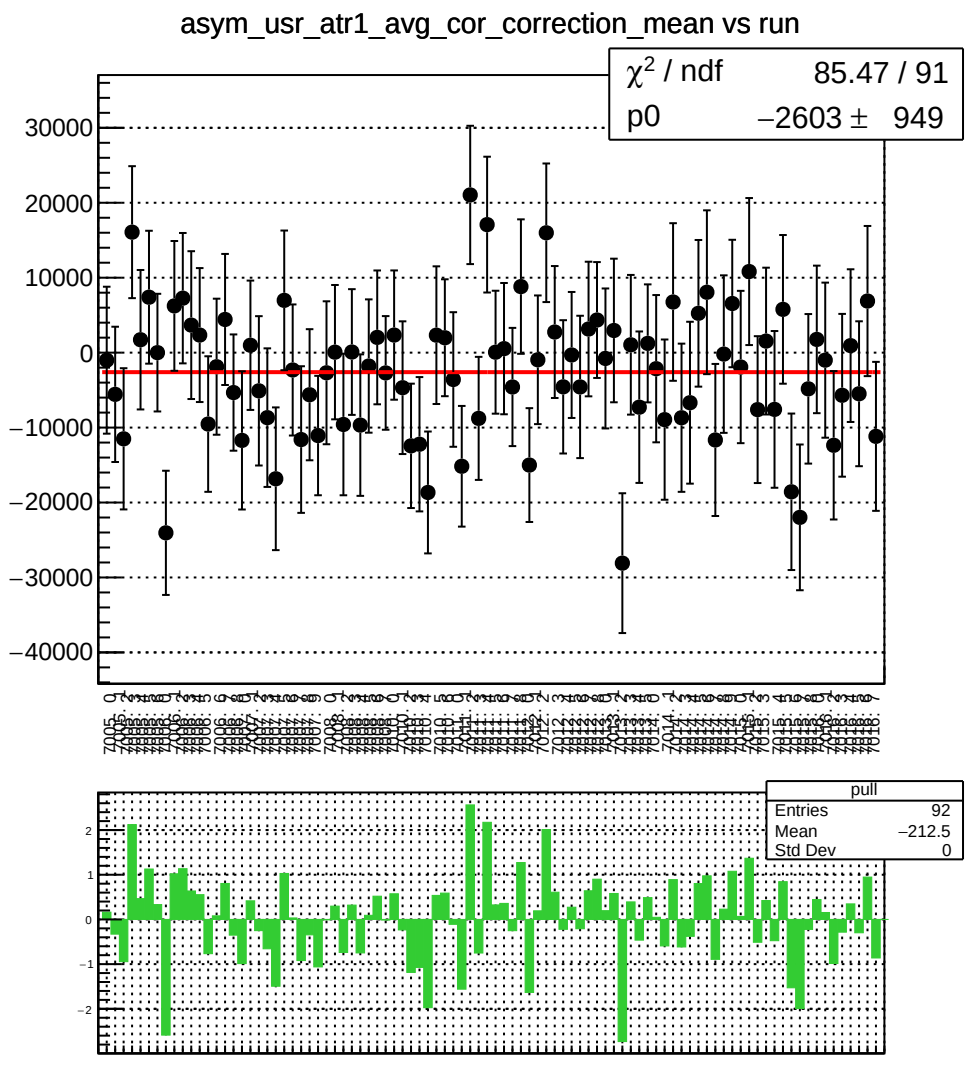

pull1D
Entries 92
Mean 0.002225
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

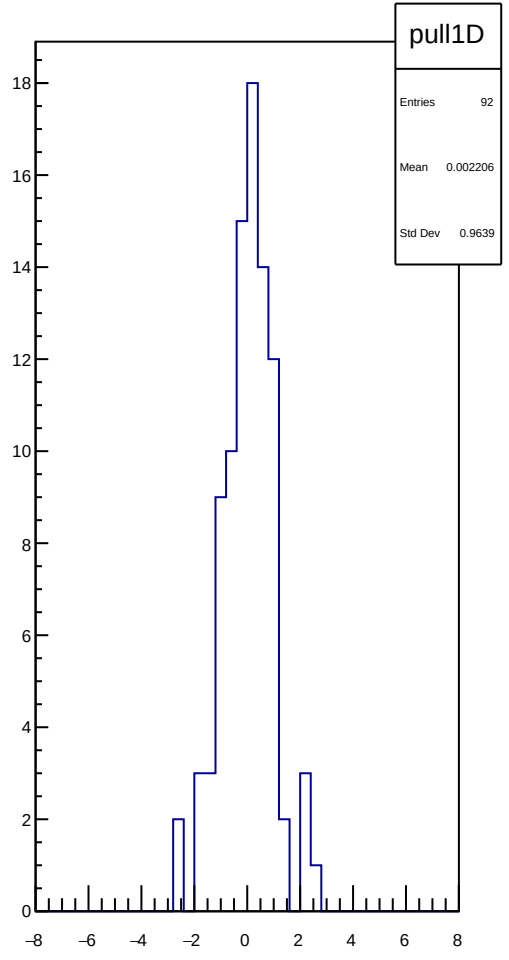

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.035e+04 / 91
p0 876.2 ± 0.671
1050
1000
950
900
850
800
750
700

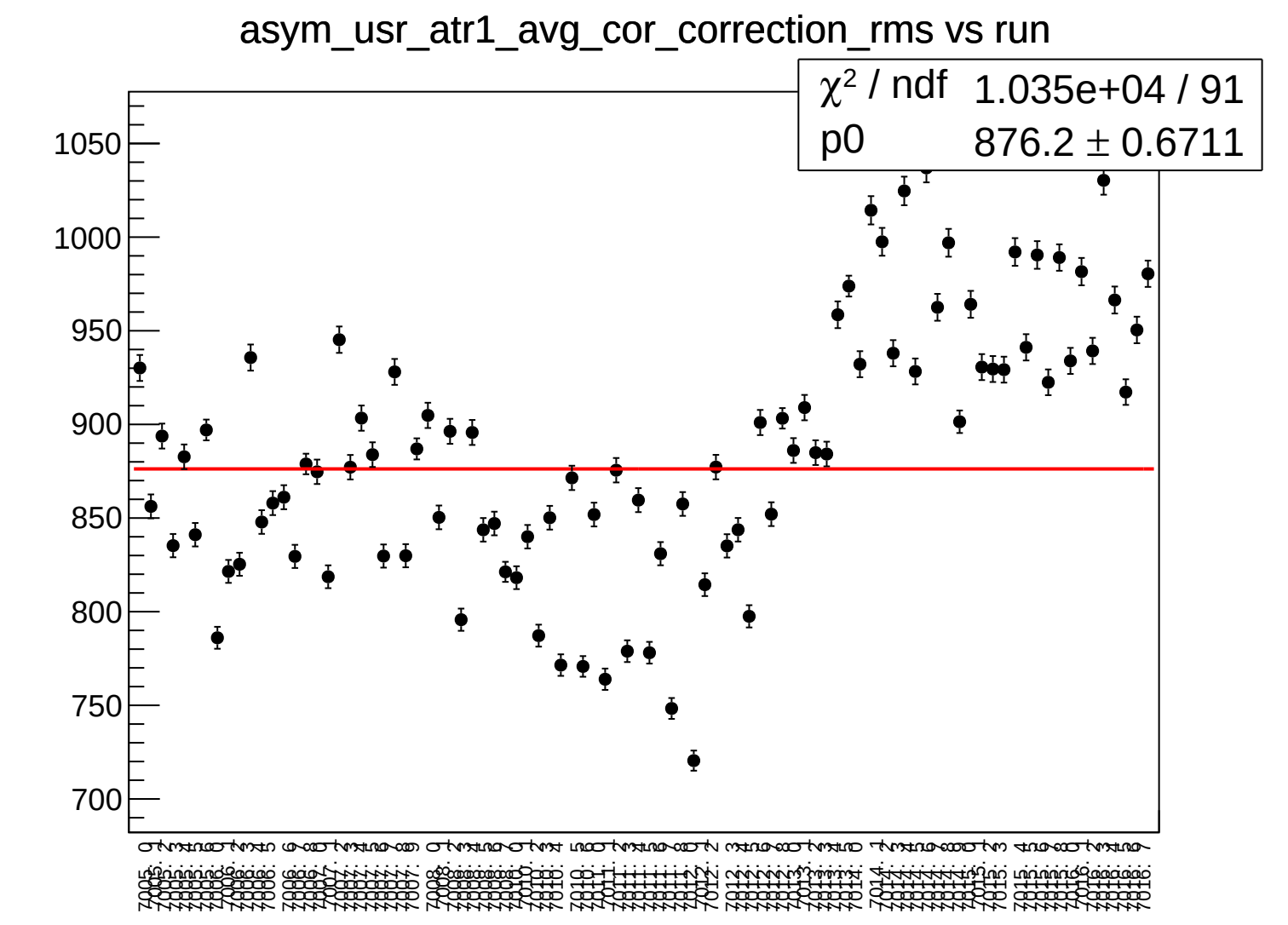

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 110.1 / 91
p0 1870 ± 1743
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −34.17
Std Dev 0
2
1
0
−1
−2

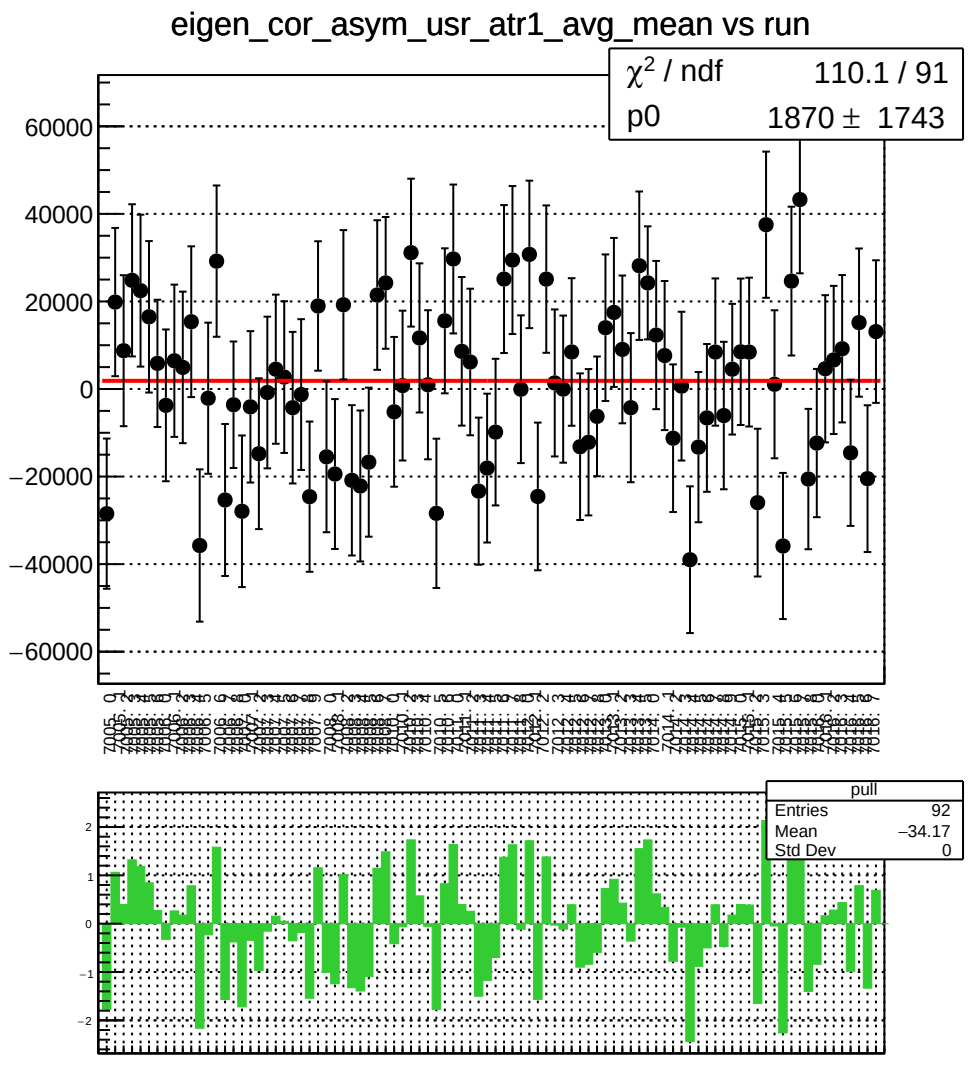

pull1D
Entries 92
Mean −0.008997
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

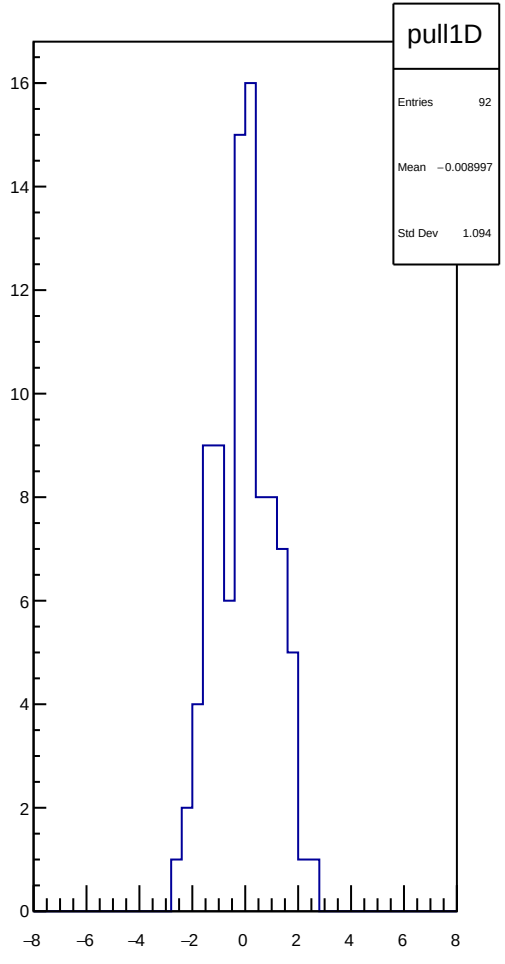

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 272.8 / 91
p0 1614 ± 1.233
1680
1660
1640
1620
1600
1580

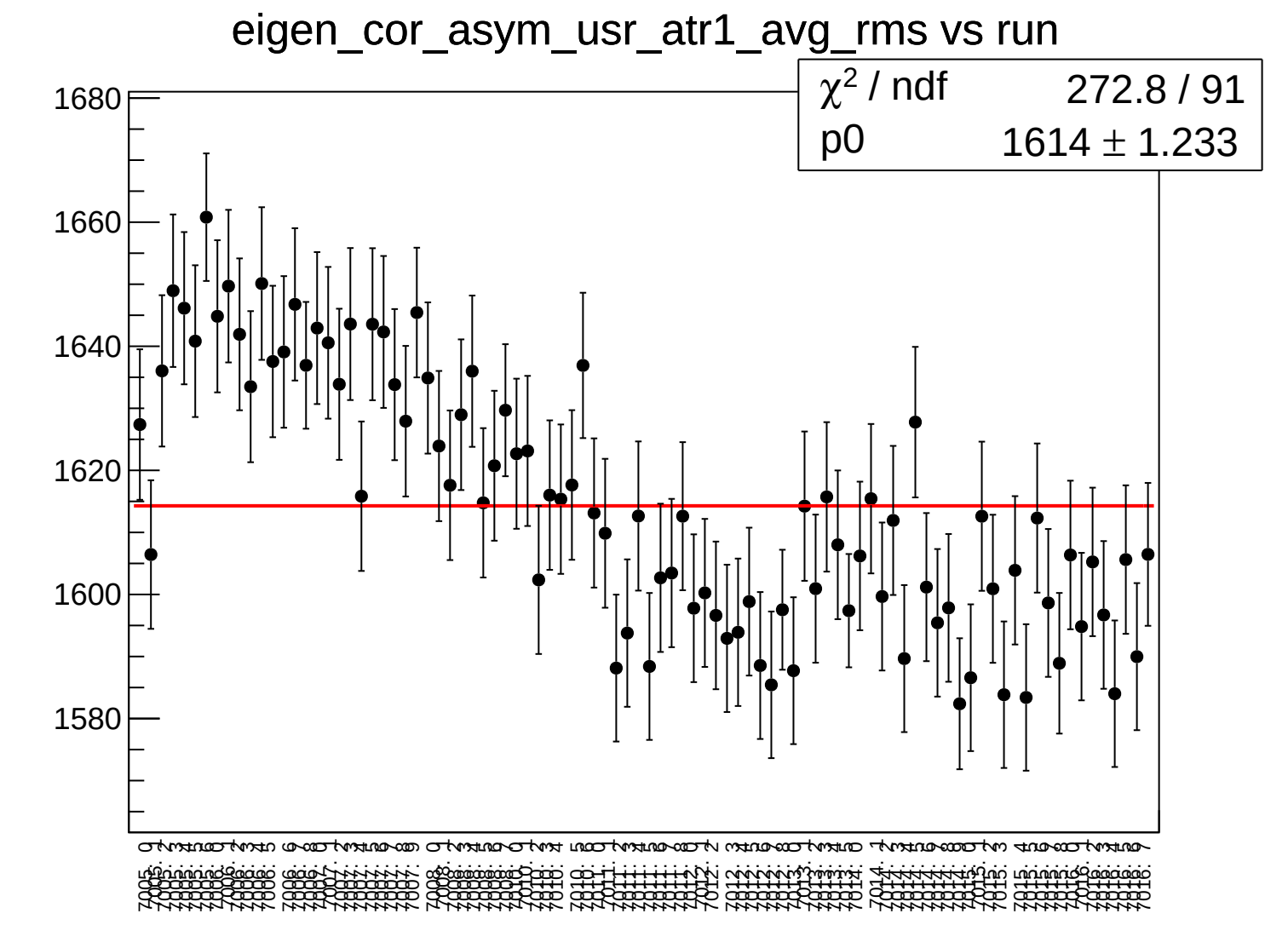

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 85.47 / 91
p0 −2603 ± 949
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −212.5
Std Dev 0
2
1
0
−1
−2

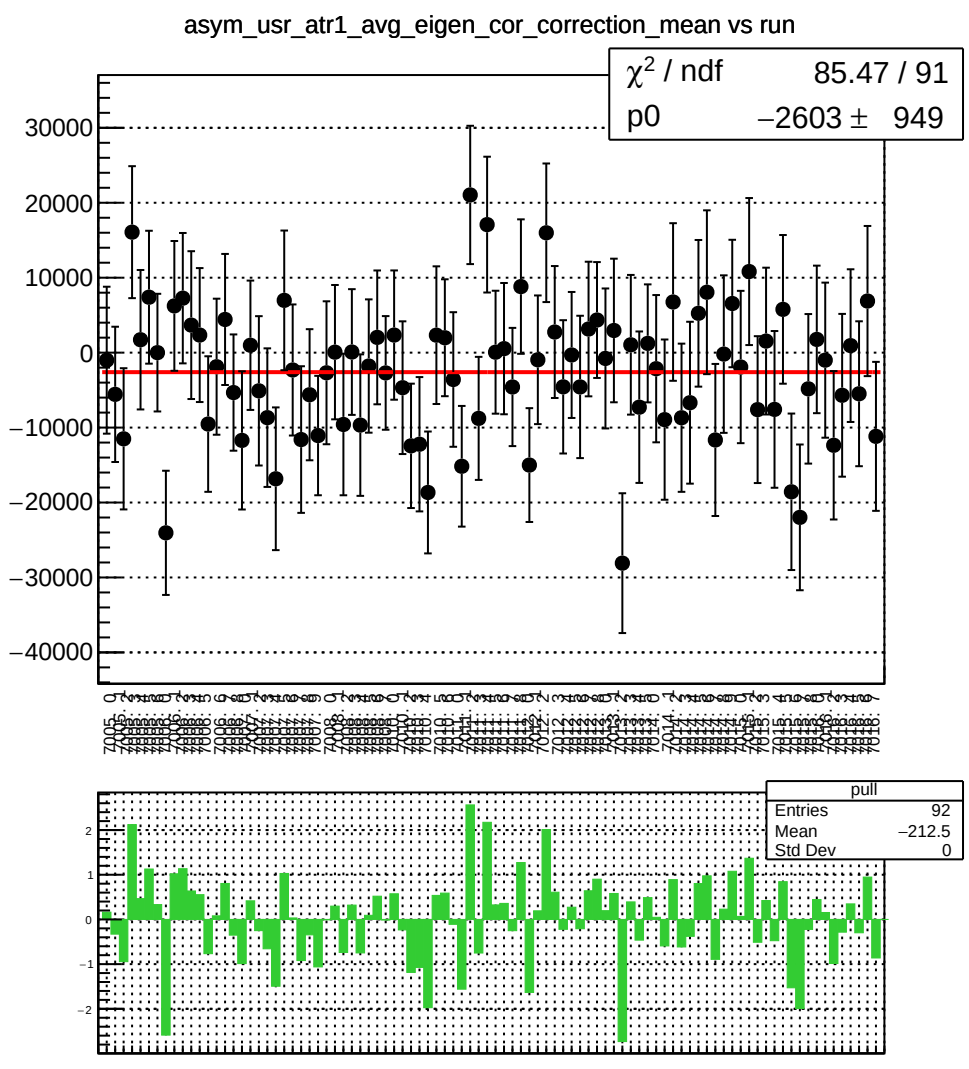

pull1D
Entries 92
Mean 0.002206
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

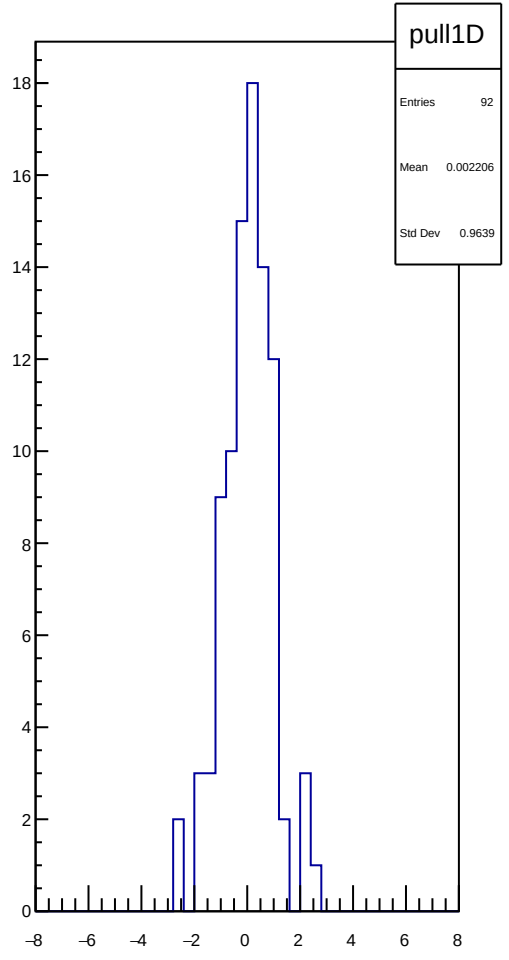

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.035e+04 / 91
p0 876.2 ± 0.6711
1050
1000
950
900
850
800
750
700

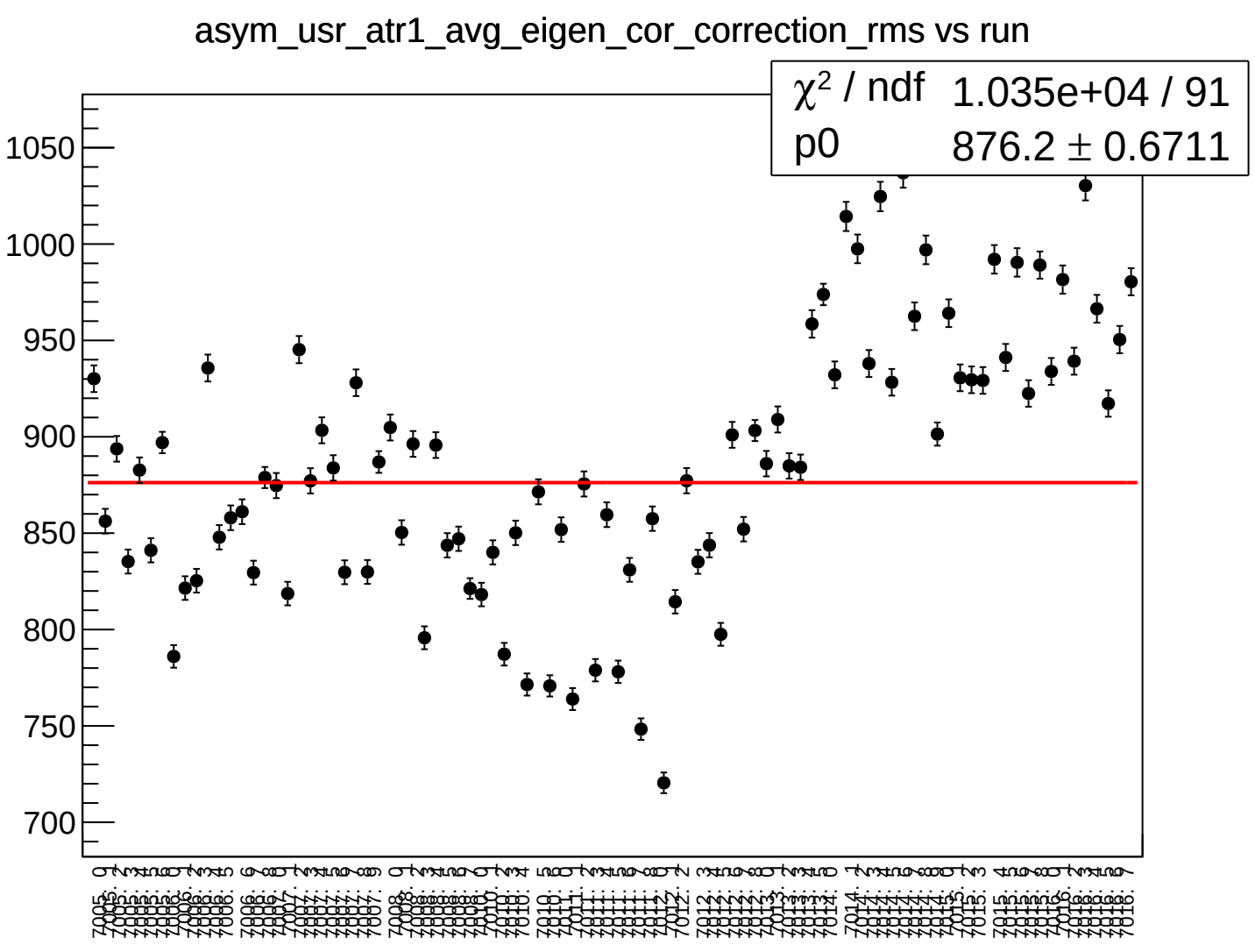

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 110.1 / 91
p0 1870 ± 1743
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −34.17
Std Dev 0
2
1
0
−1
−2

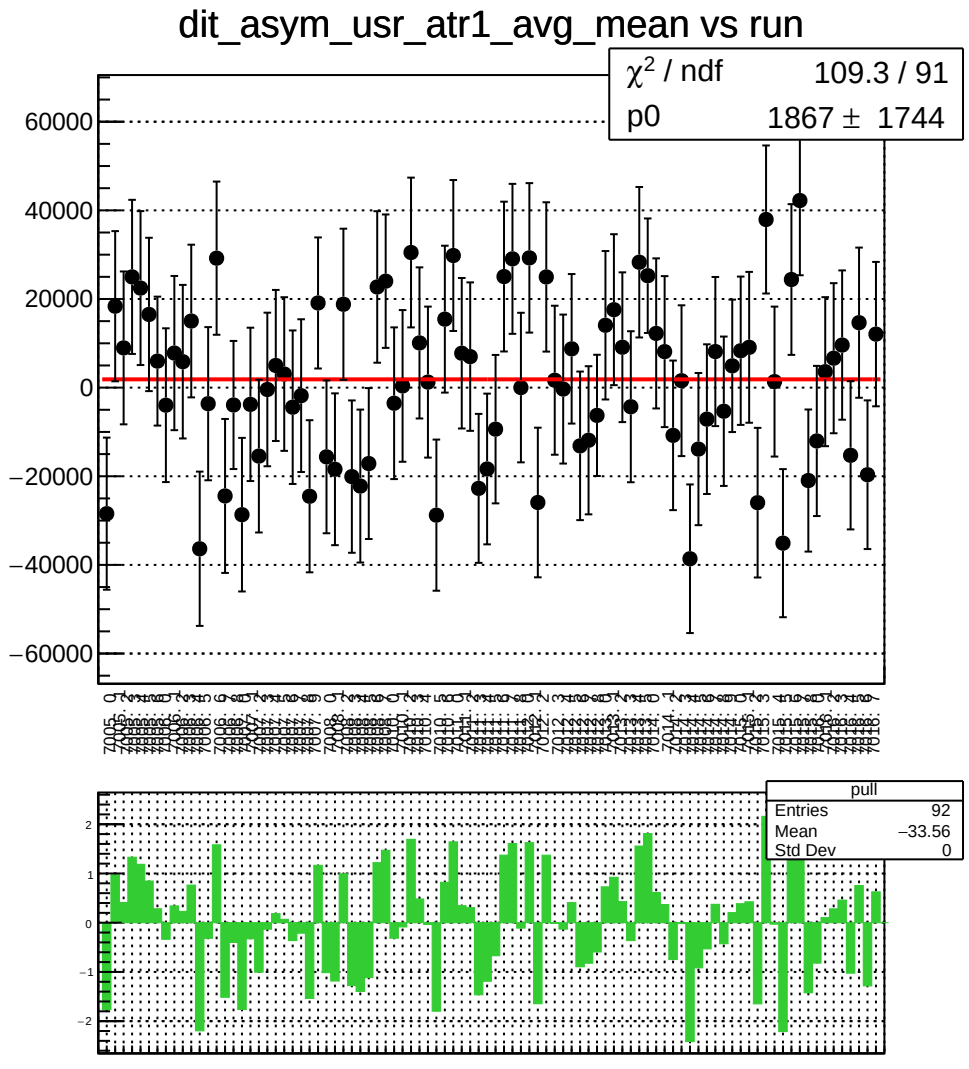

pull1D
Entries 92
Mean −0.008997
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

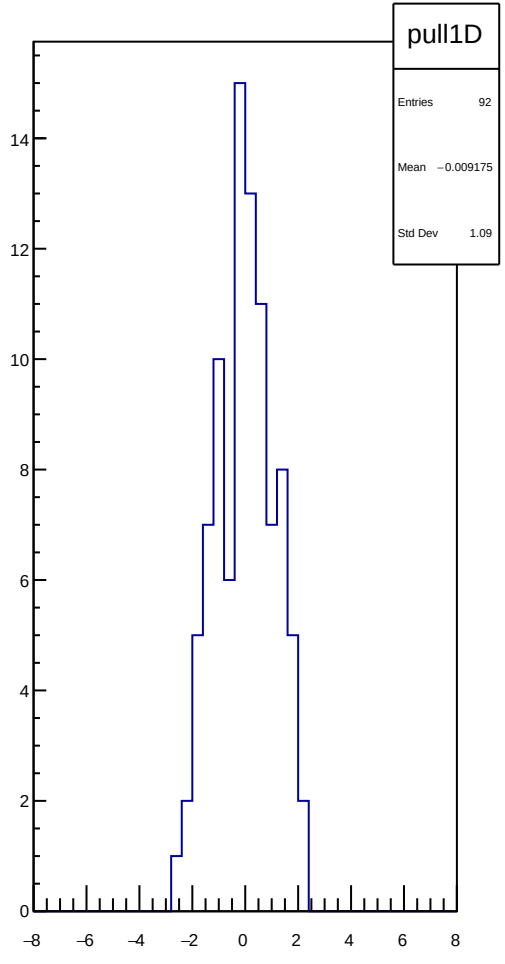

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 272.8 / 91
p0 1614 ± 1.233
1680
1660
1640
1620
1600
1580

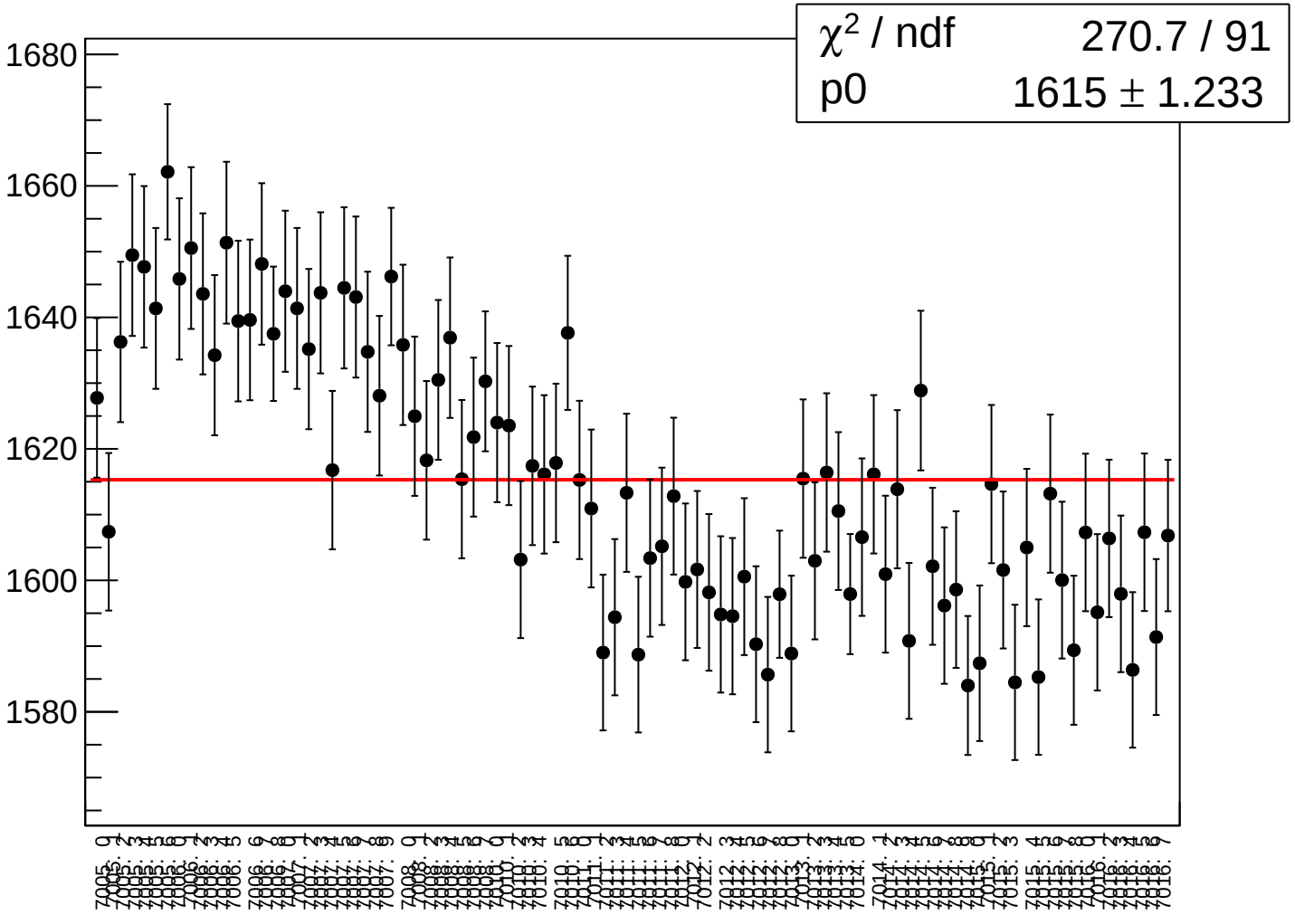

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.47 / 91
p0 −2603 ± 949
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −212.5
Std Dev 0
2
1
0
−1
−2

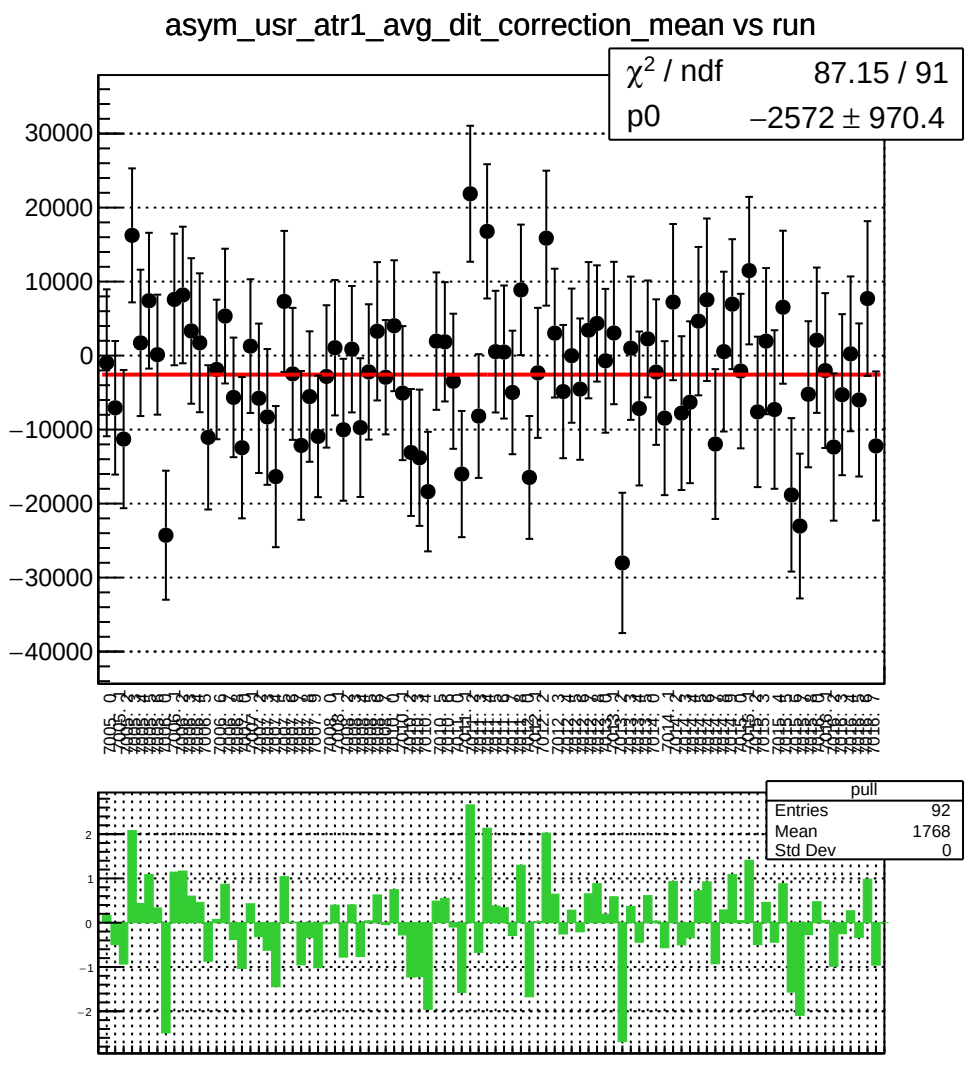

pull1D
Entries 92
Mean 0.002206
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

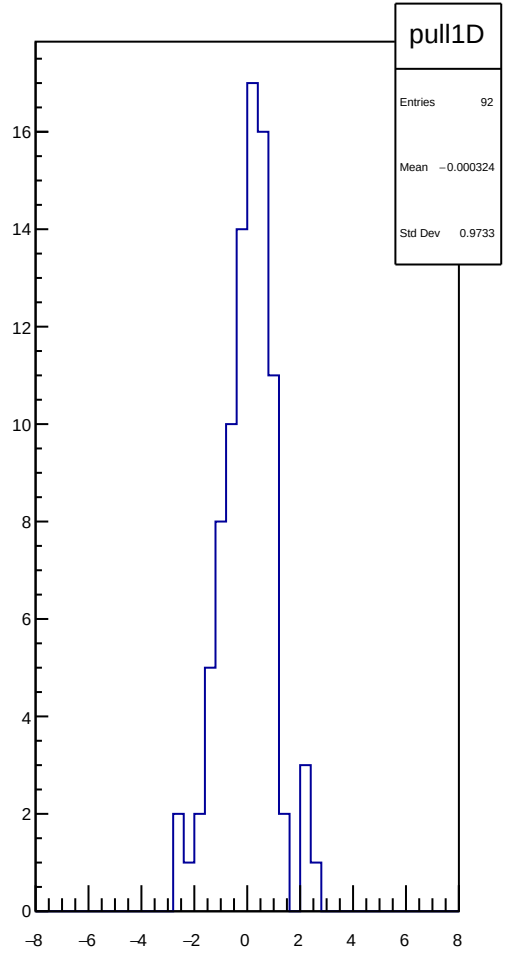

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.035e+04 / 91
p0 876.2 ± 0.6711
1050
1000
950
900
850
800
750
700

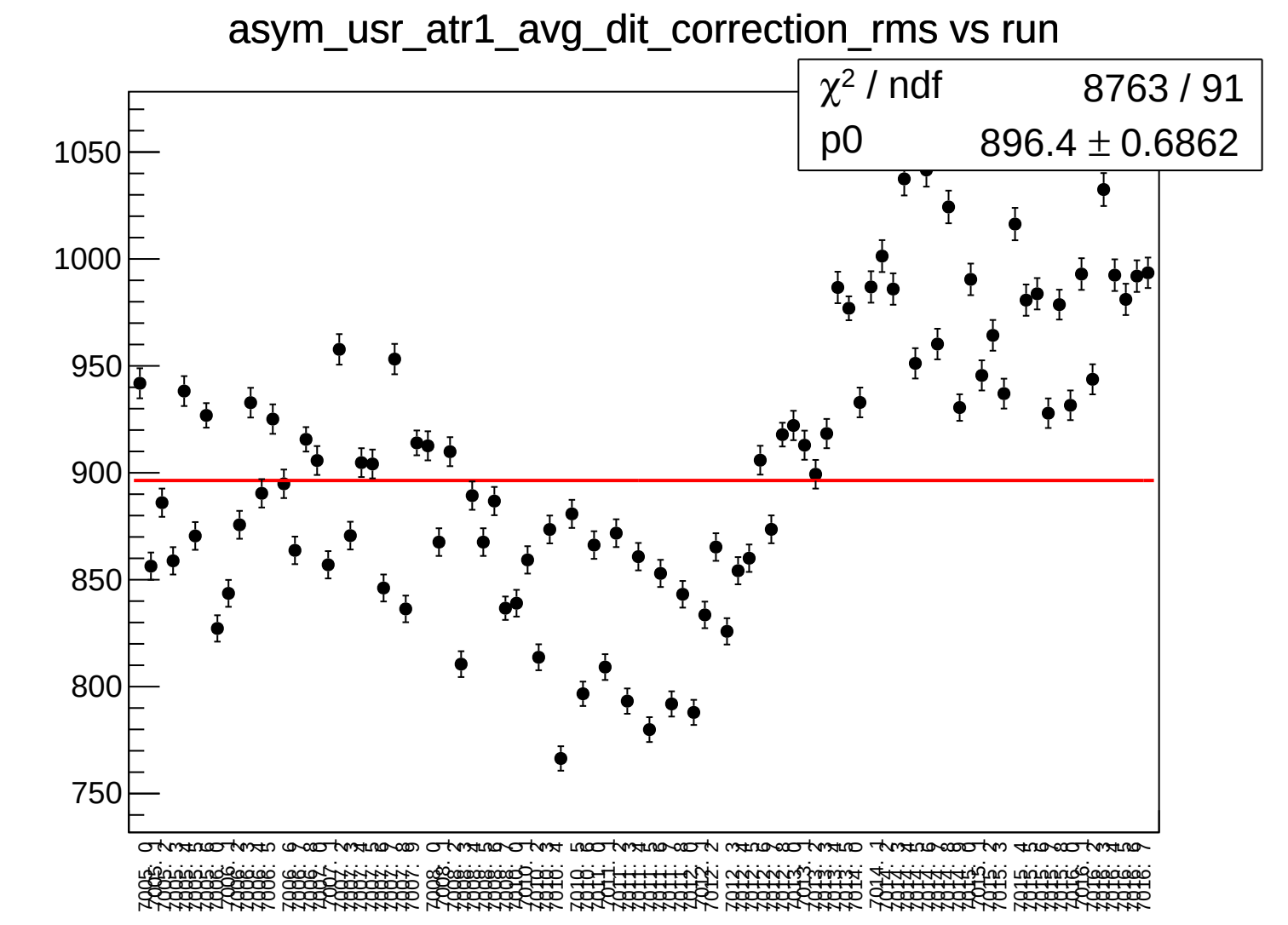

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 109.3 / 91
p0 1867 ± 1744
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −33.56
Std Dev 0
2
1
0
−1
−2

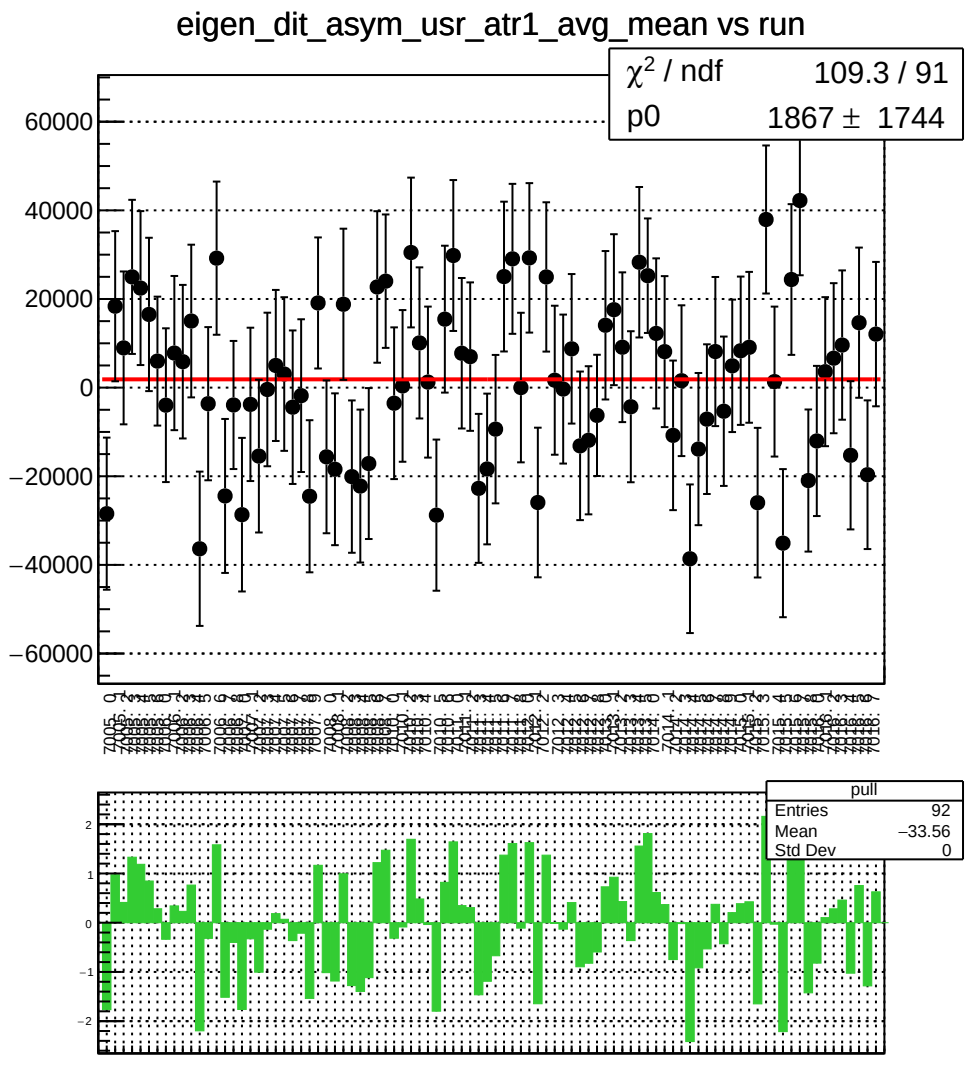

pull1D
Entries 92
Mean −0.009175
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

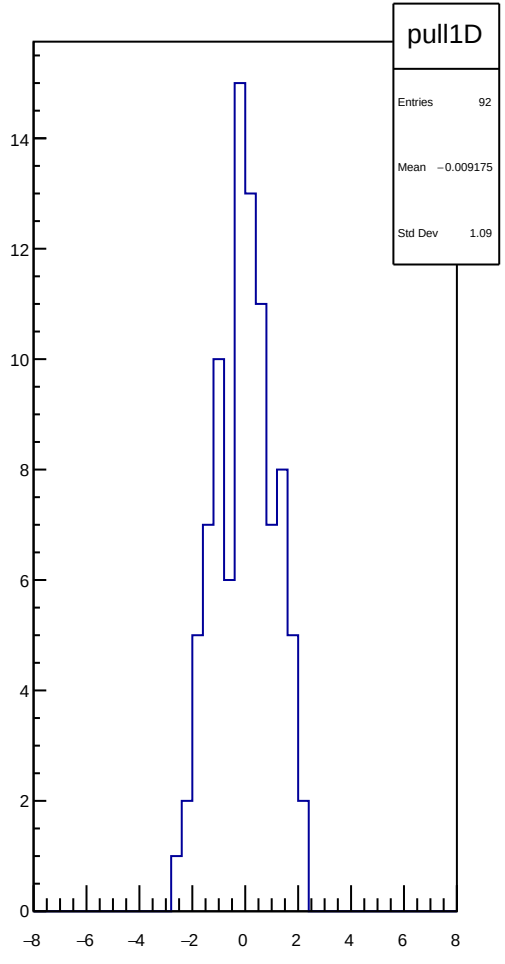

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 270.7 / 91
p0 1615 ± 1.233
1680
1660
1640
1620
1600
1580

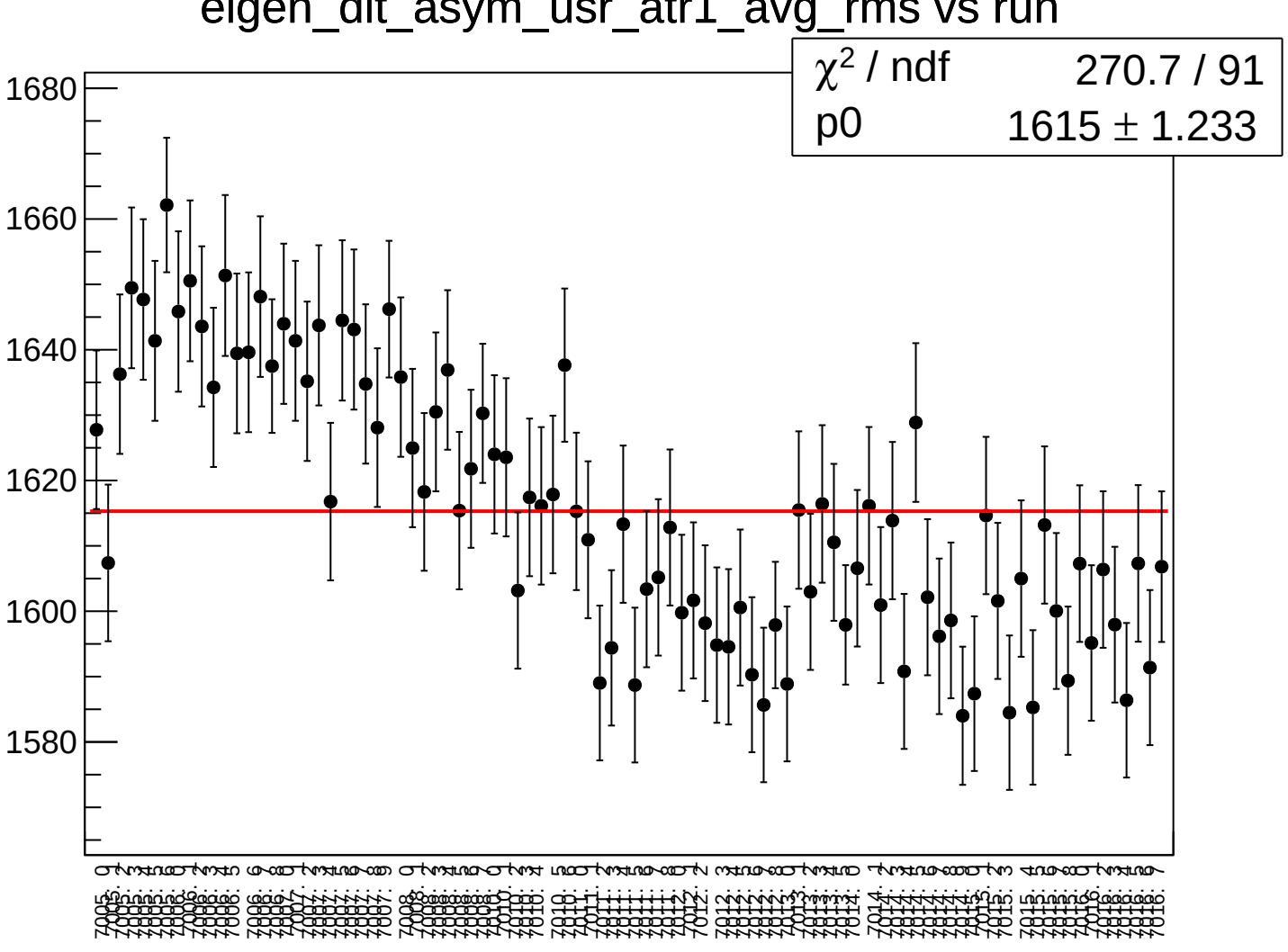

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 87.15 / 91
p0 −2572 ± 970.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 1768
Std Dev 0
2
1
0
−1
−2

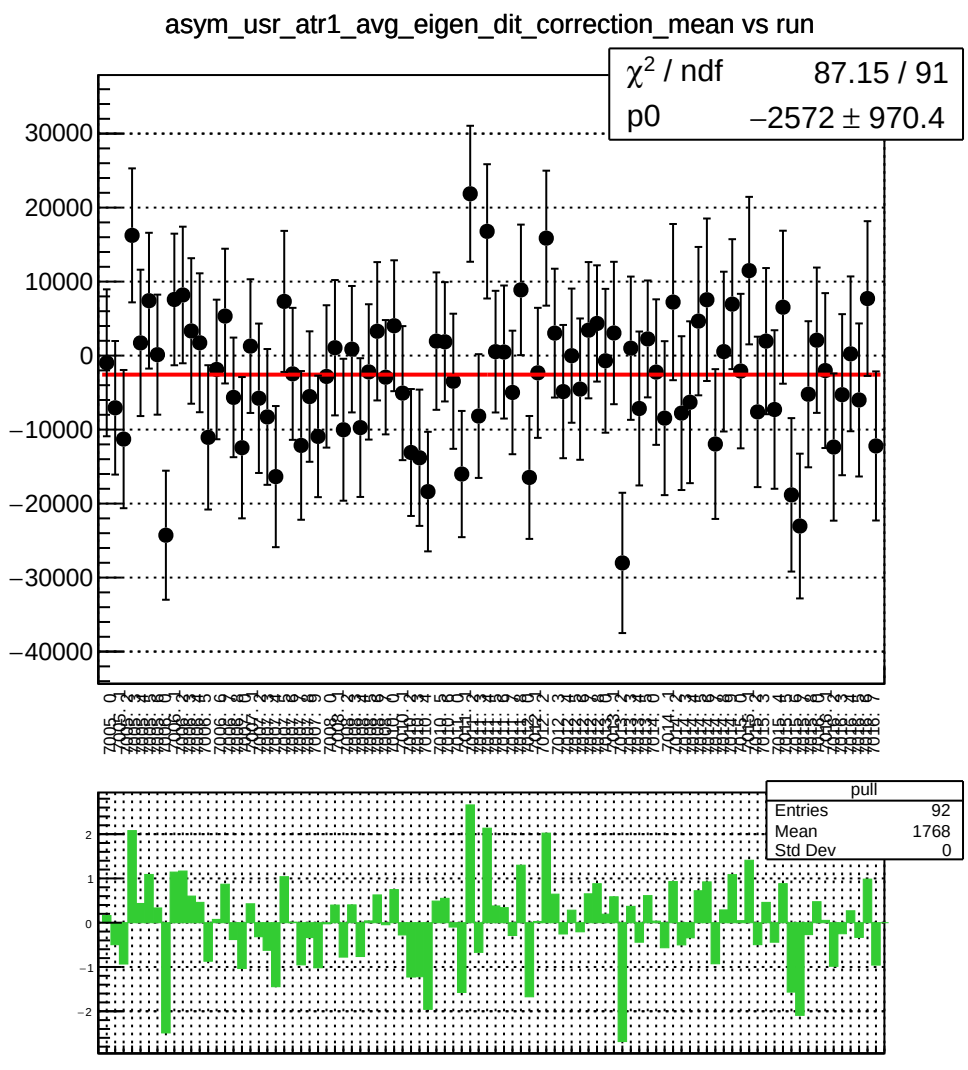

pull1D
Entries 92
Mean −0.000324
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

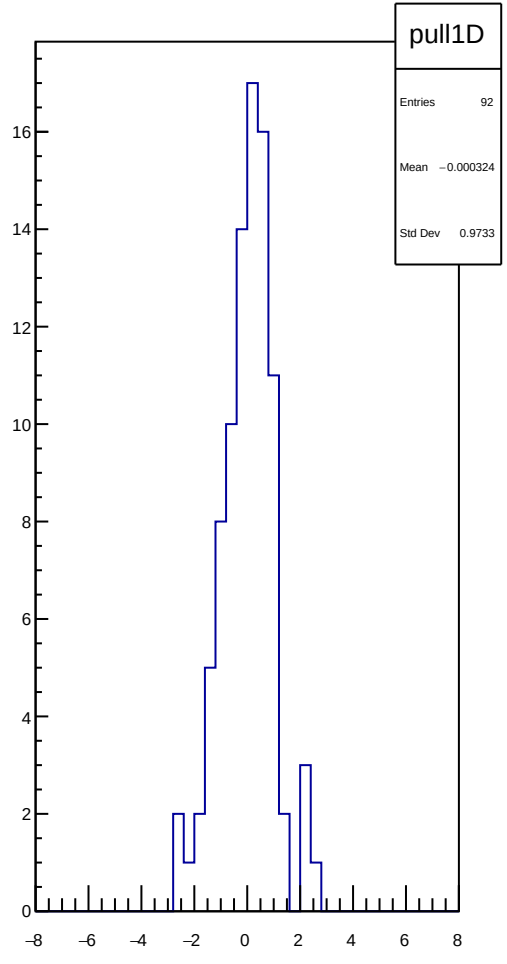

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 8763 / 91
p0 896.4 ± 0.6862
1050
1000
950
900
850
800
750

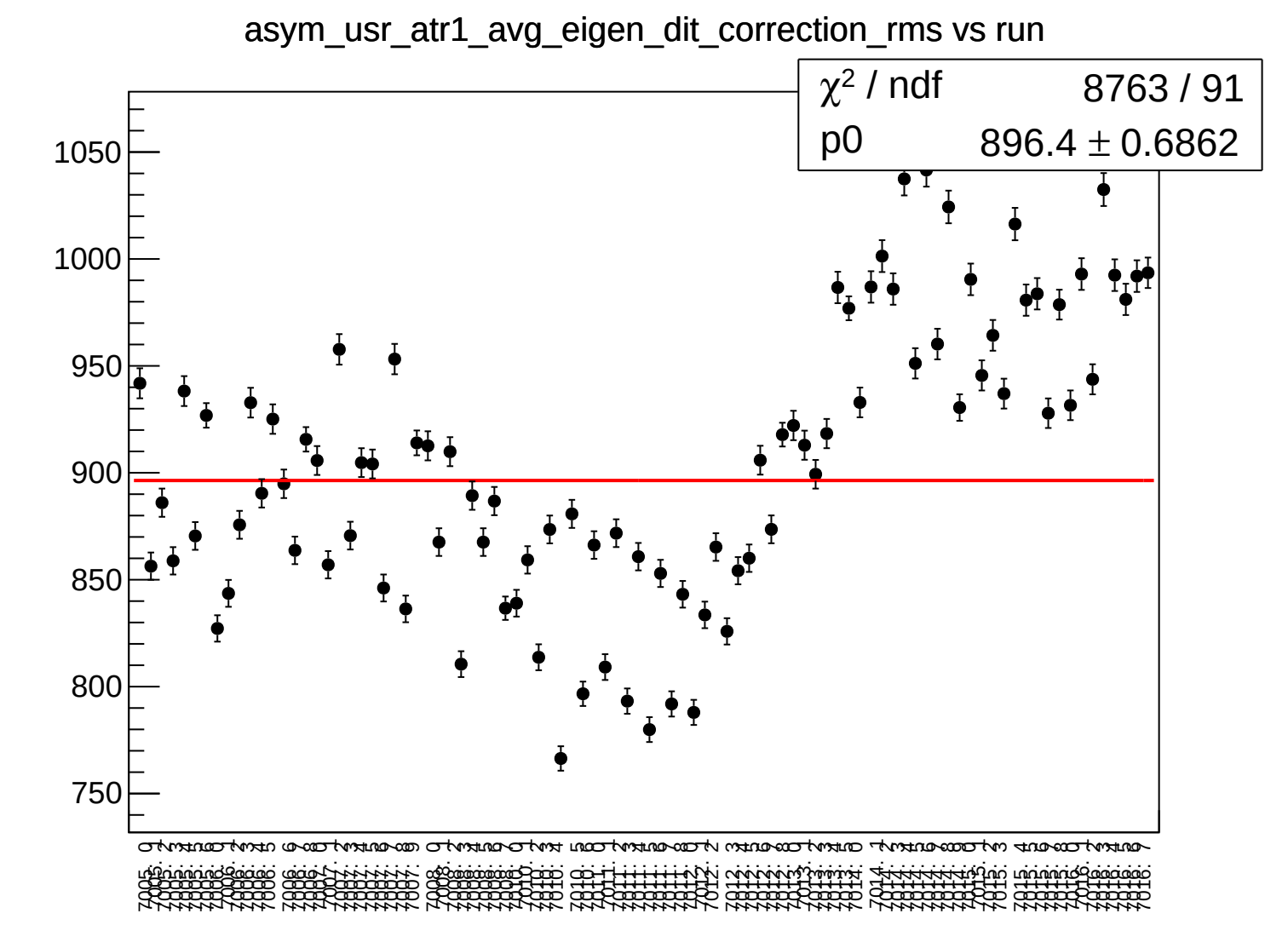

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 109.3 / 91
p0 1867 ± 1744
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −33.56
Std Dev 0
2
1
0
−1
−2

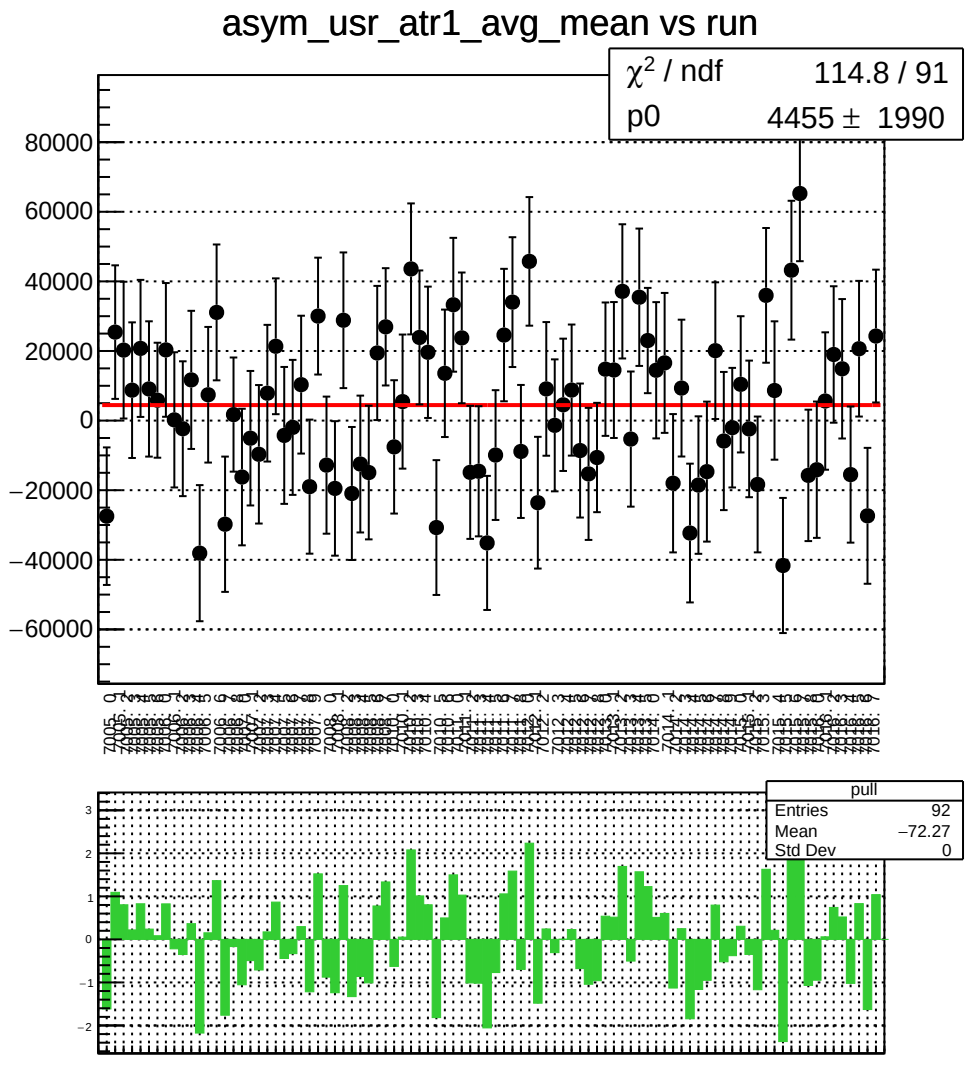

pull1D
Entries 92
Mean −0.009175
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

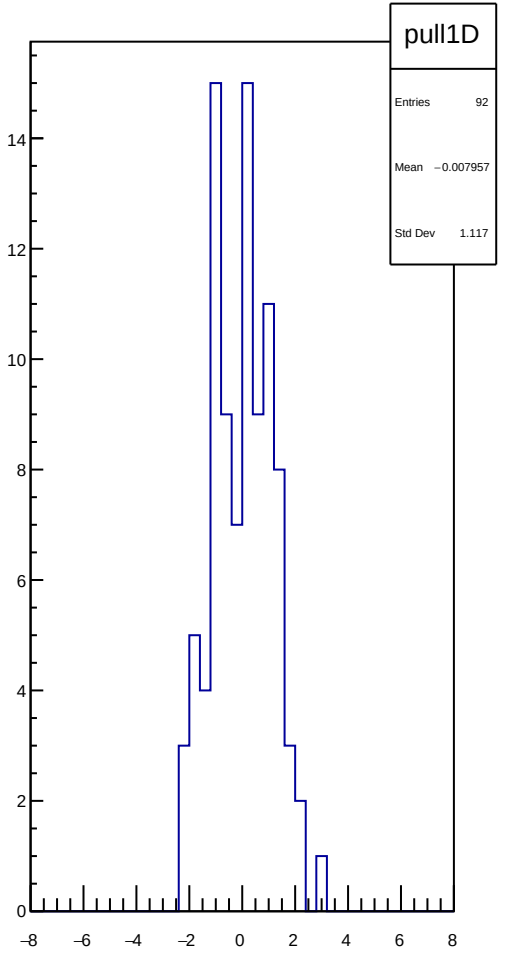

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 270.7 / 91
p0 1615 ± 1.233
1680
1660
1640
1620
1600
1580

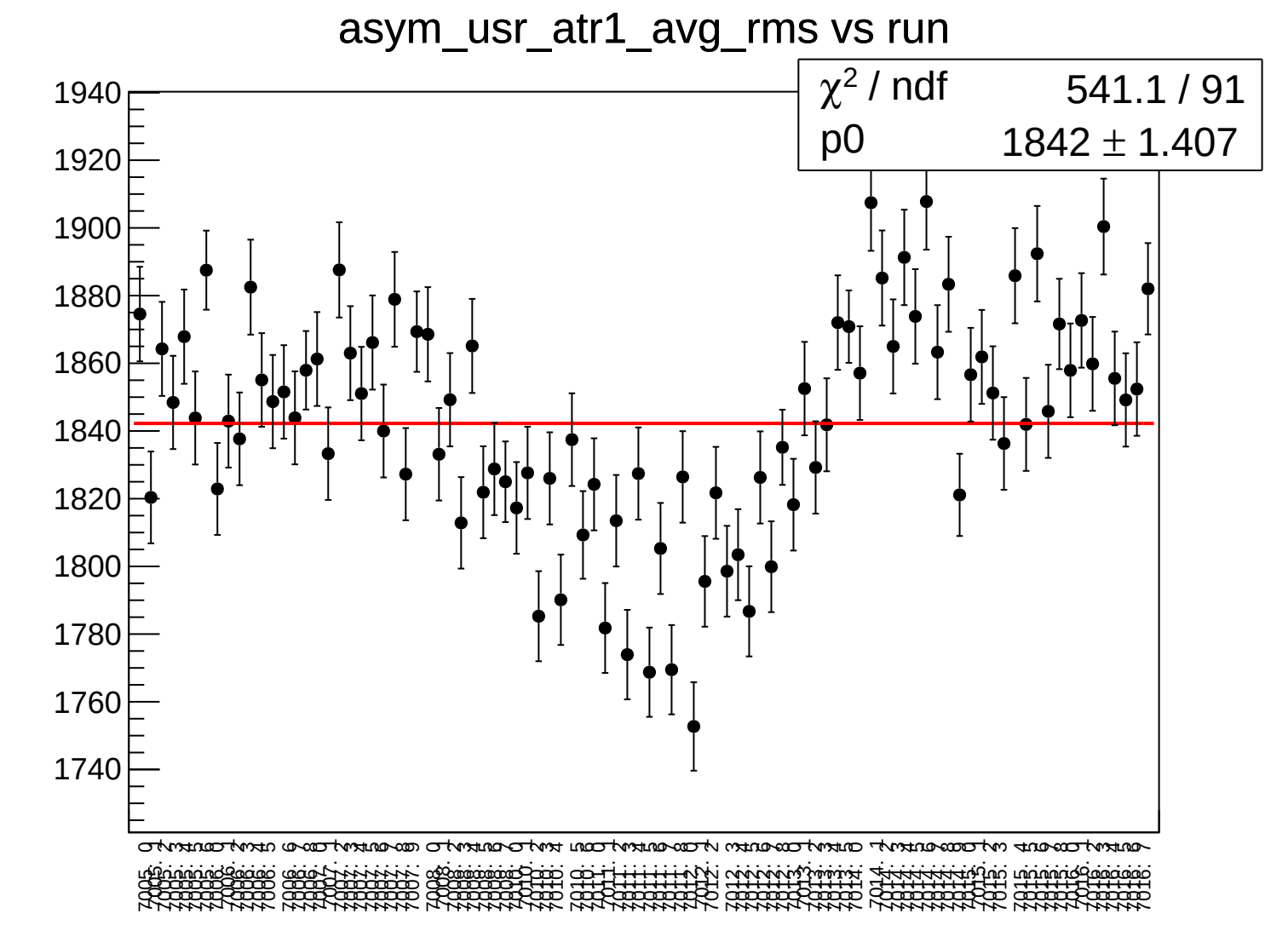

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.15 / 91
p0 −2572 ± 970.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 1768
Std Dev 0
2
1
0
−1
−2

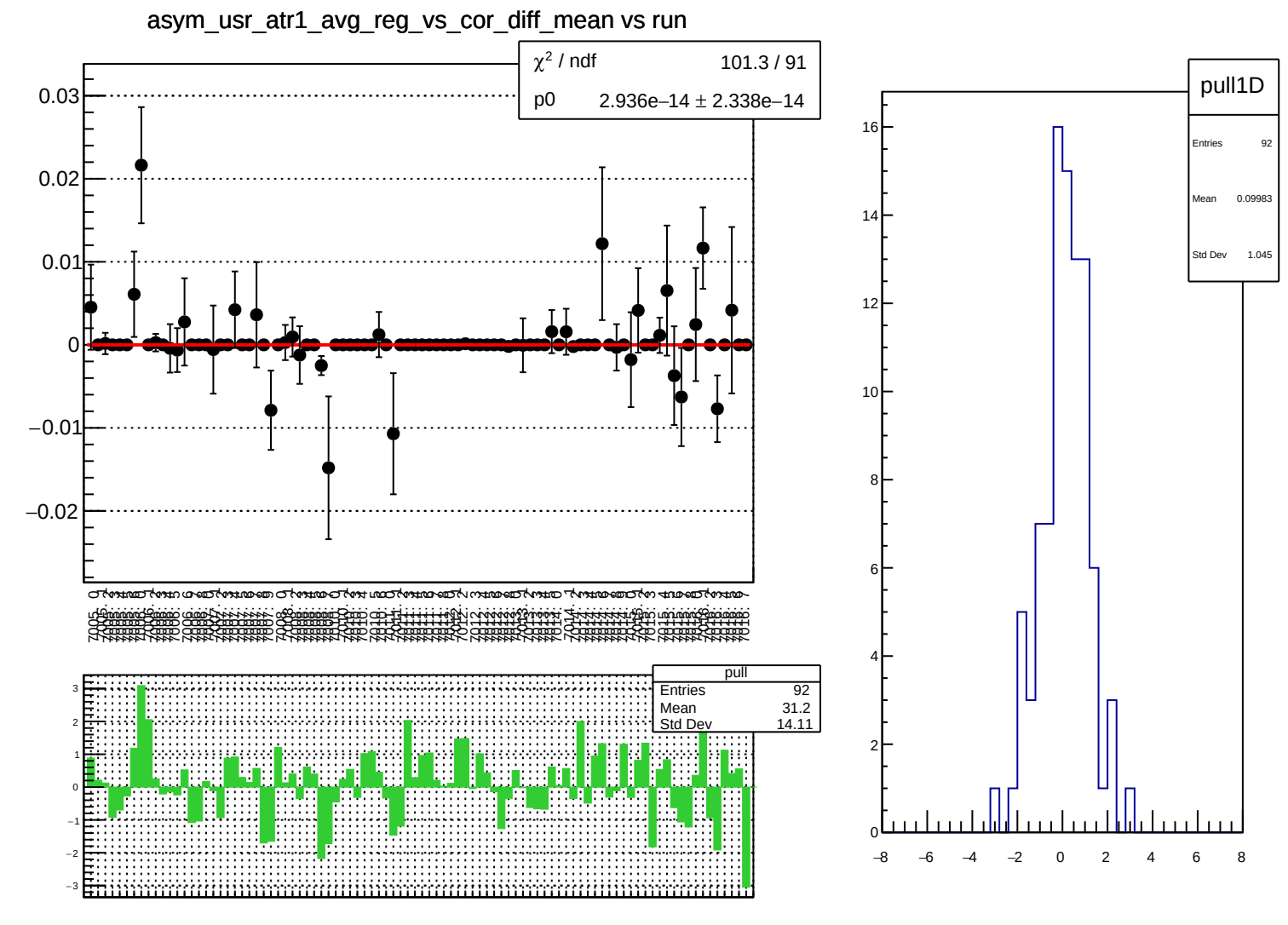

pull1D
Entries 92
Mean −0.000324
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

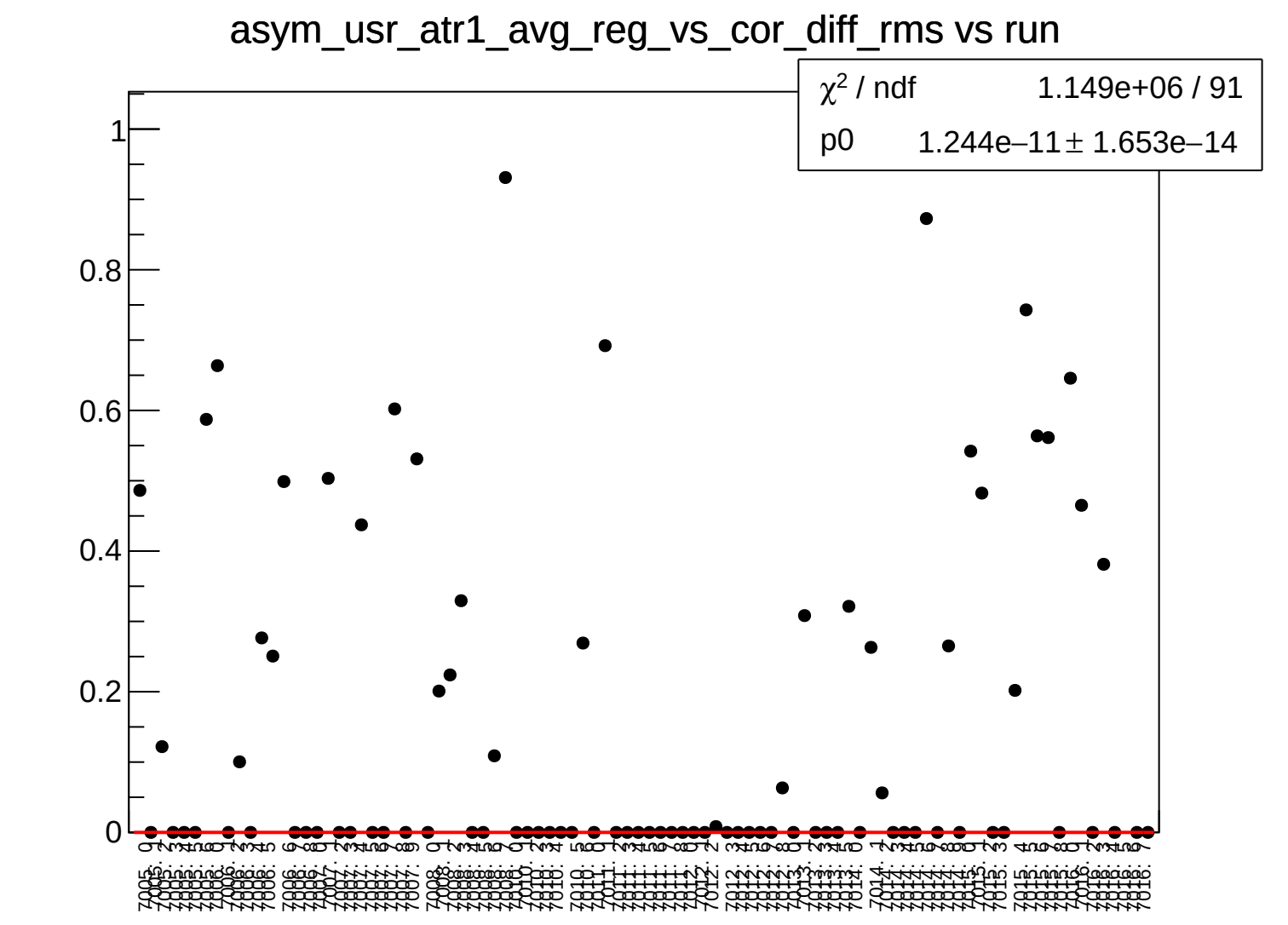

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8763 / 91
p0 896.4 ± 0.6862
1050
1000
950
900
850
800
750

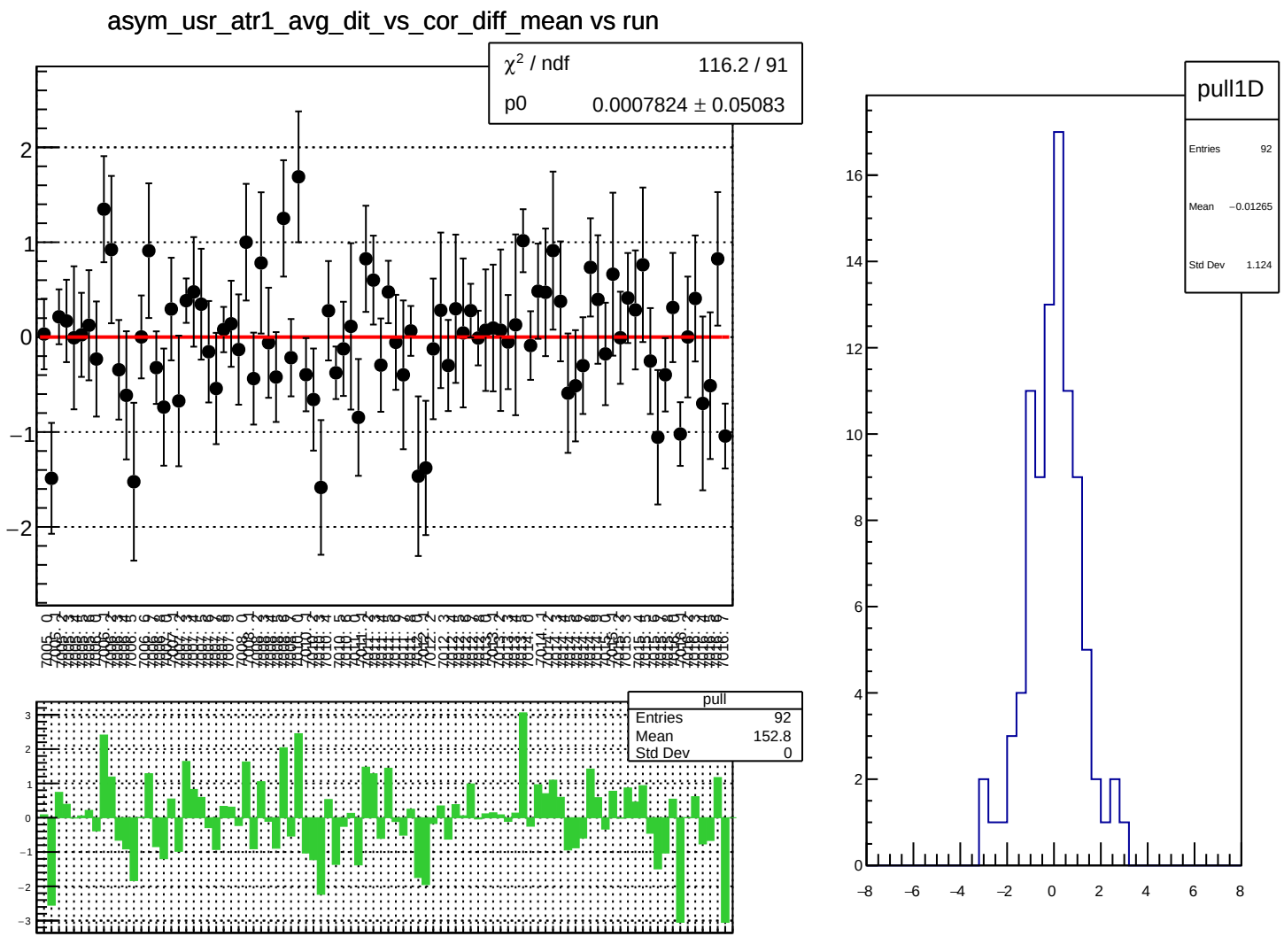

asym_usr_atr1_avg_mean vs run
χ² / ndf 114.8 / 91
p0 4455 ± 1990
pull
Entries 92
Mean −72.27
Std Dev 0

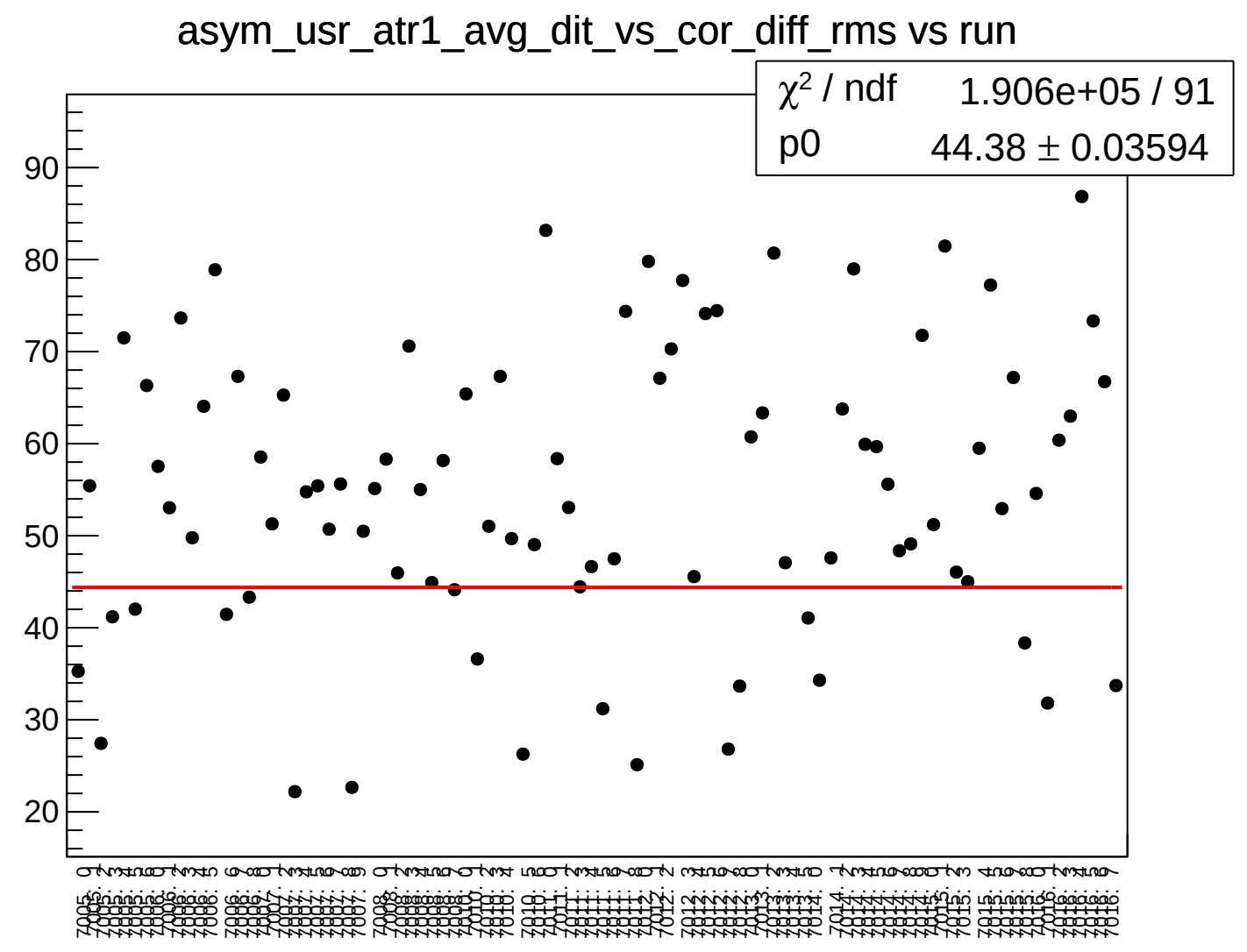

pull1D
Entries 92
Mean −0.007957
Std Dev 1.117

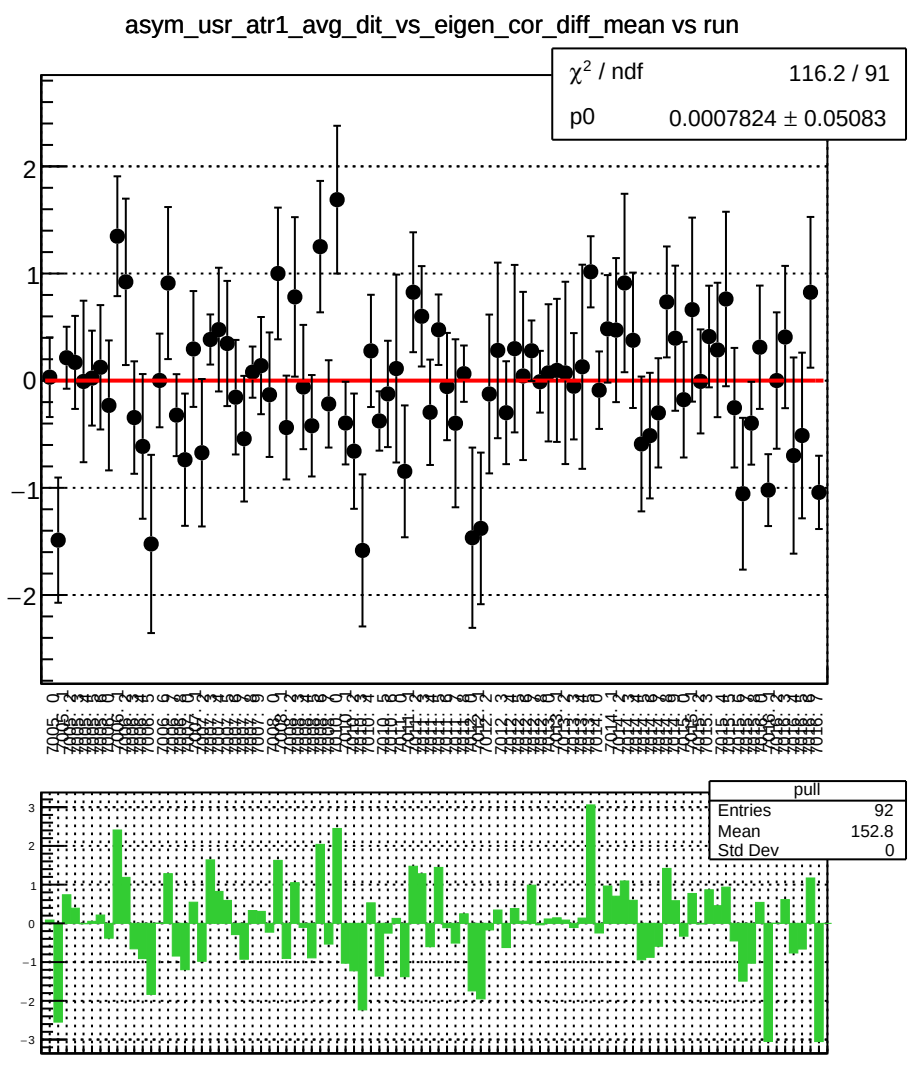

asym_usr_atr1_avg_rms vs run
χ² / ndf 541.1 / 91
p0 1842 ± 1.407
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740

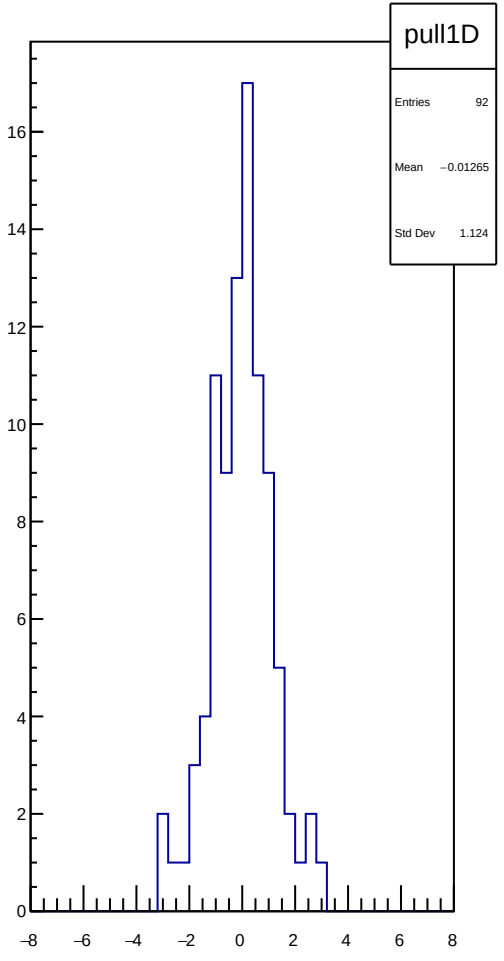

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 91
p0 2.936e−14 ± 2.338e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 31.2
Std Dev 14.11
pull1D
Entries 92
Mean 0.09983
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

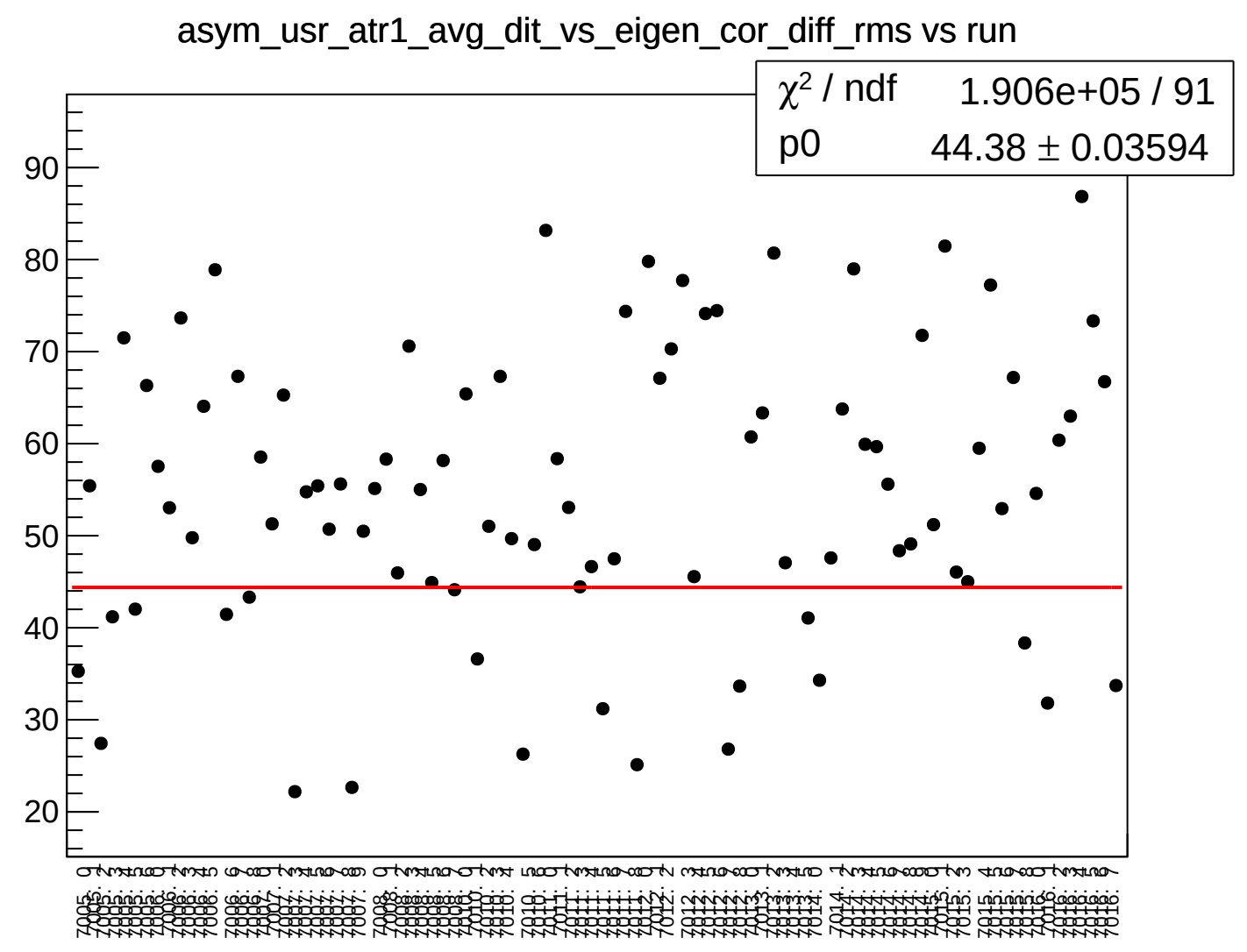

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.149e+06 / 91
p0 1.244e−11 ± 1.653e−14
1
0.8
0.6
0.4
0.2
0

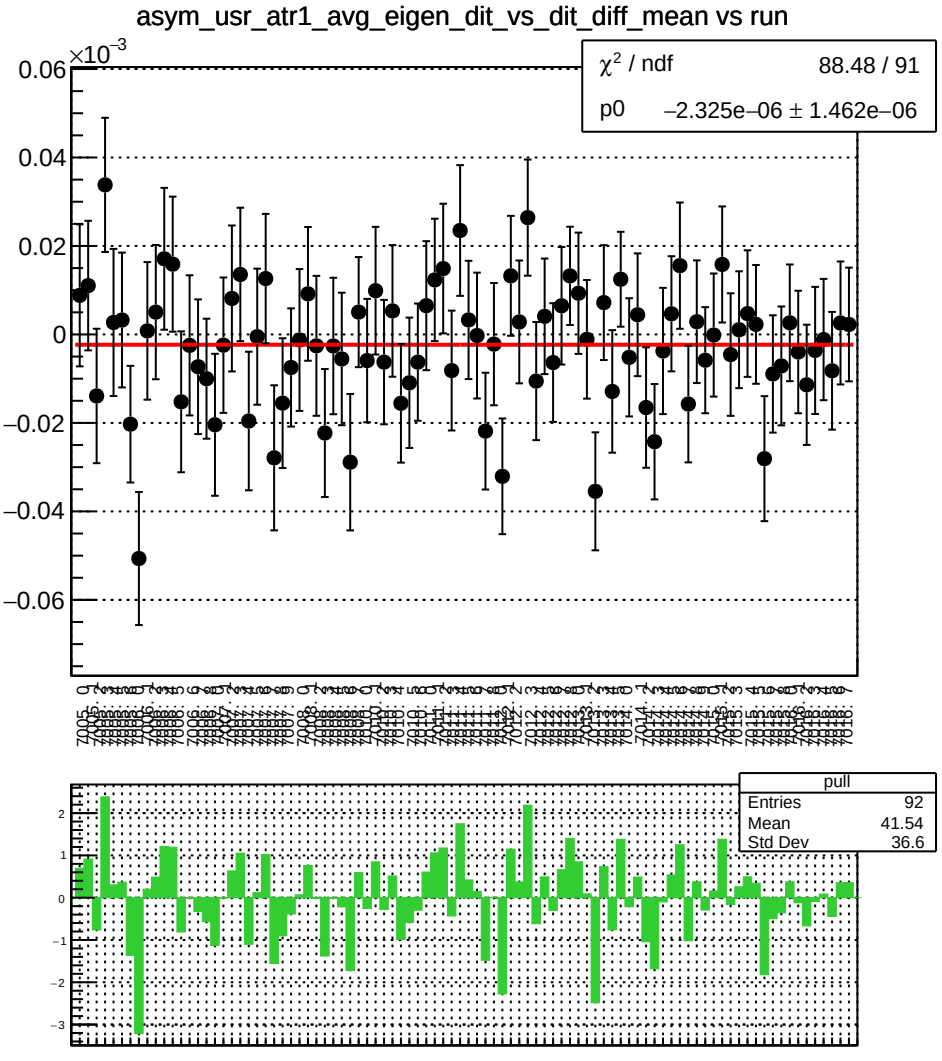

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 116.2 / 91
p0 0.0007824 ± 0.05083
pull
Entries 92
Mean 152.8
Std Dev 0
pull1D
Entries 92
Mean −0.01265
Std Dev 1.124

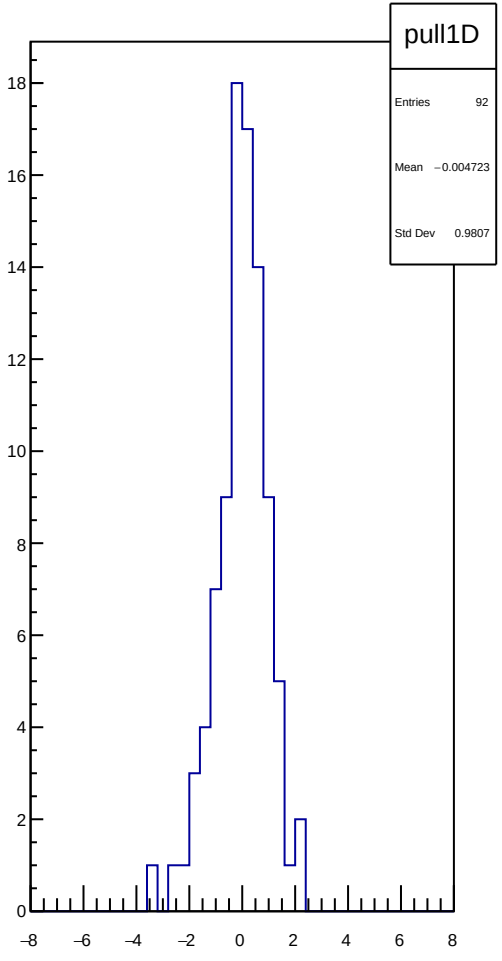

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.906e+05 / 91
p0 44.38 ± 0.03594
90
80
70
60
50
40
30
20

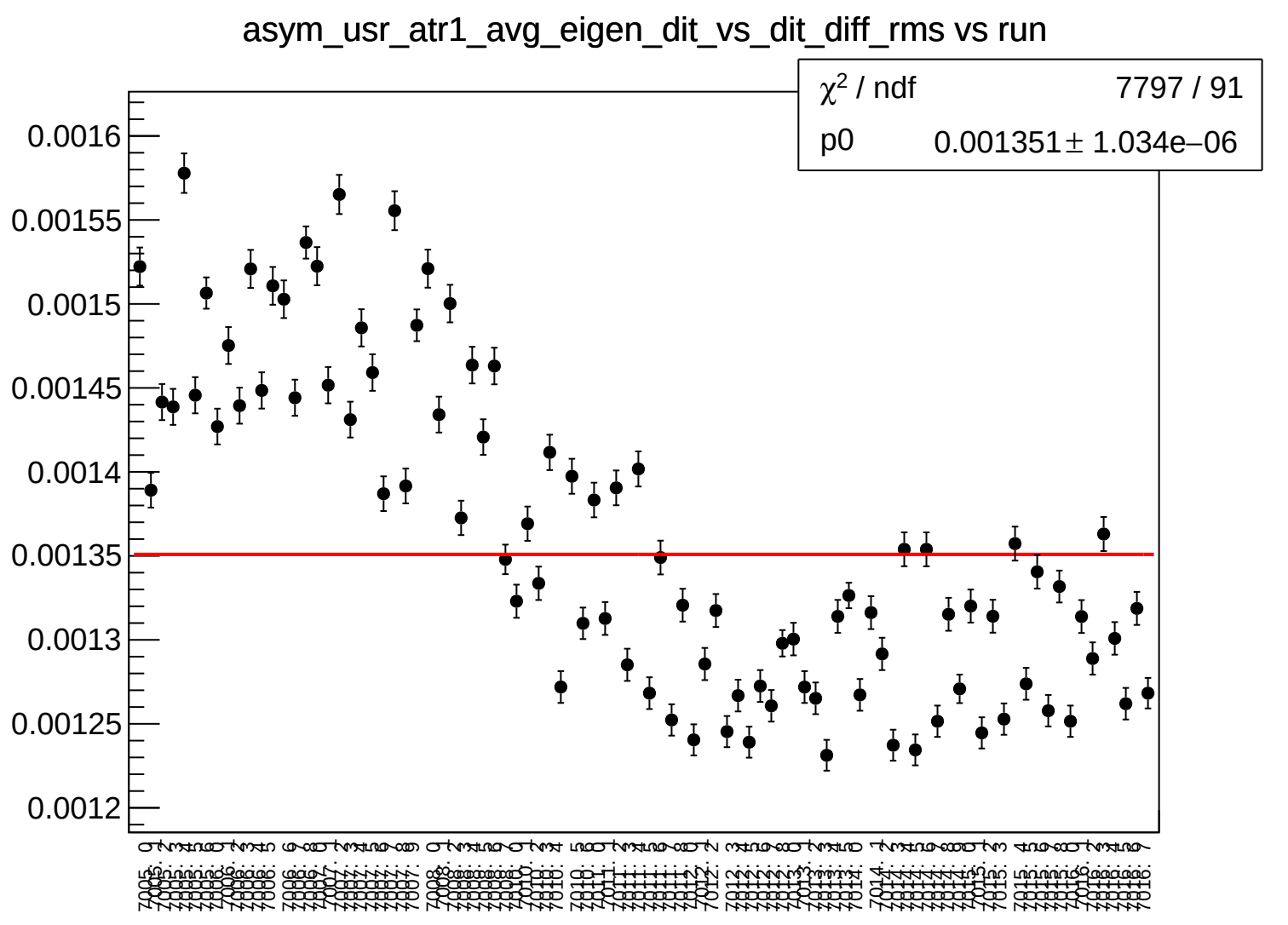

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.2 / 91
p0 0.0007824 ± 0.05083
pull
Entries 92
Mean 152.8
Std Dev 0

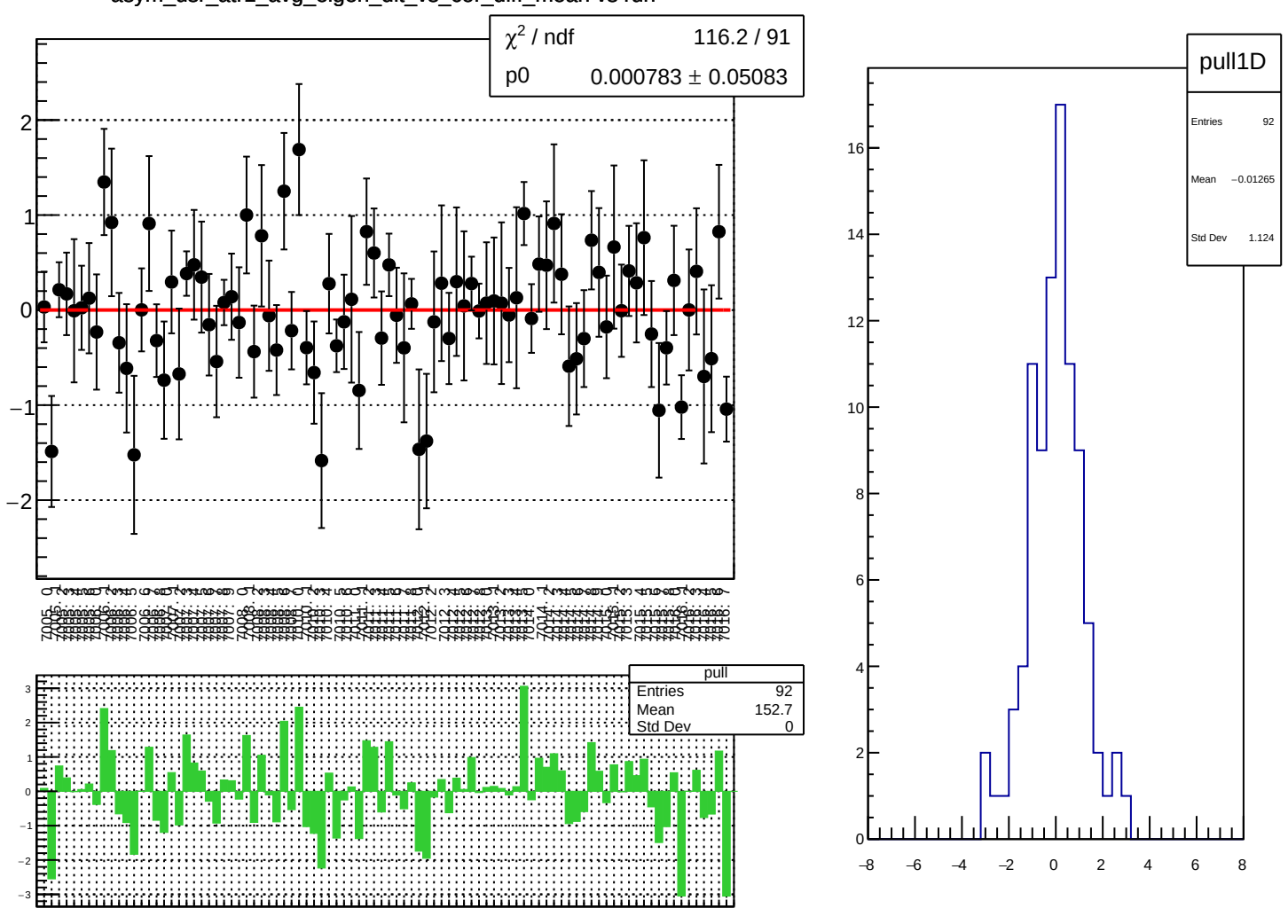

pull1D
Entries 92
Mean −0.01265
Std Dev 1.124

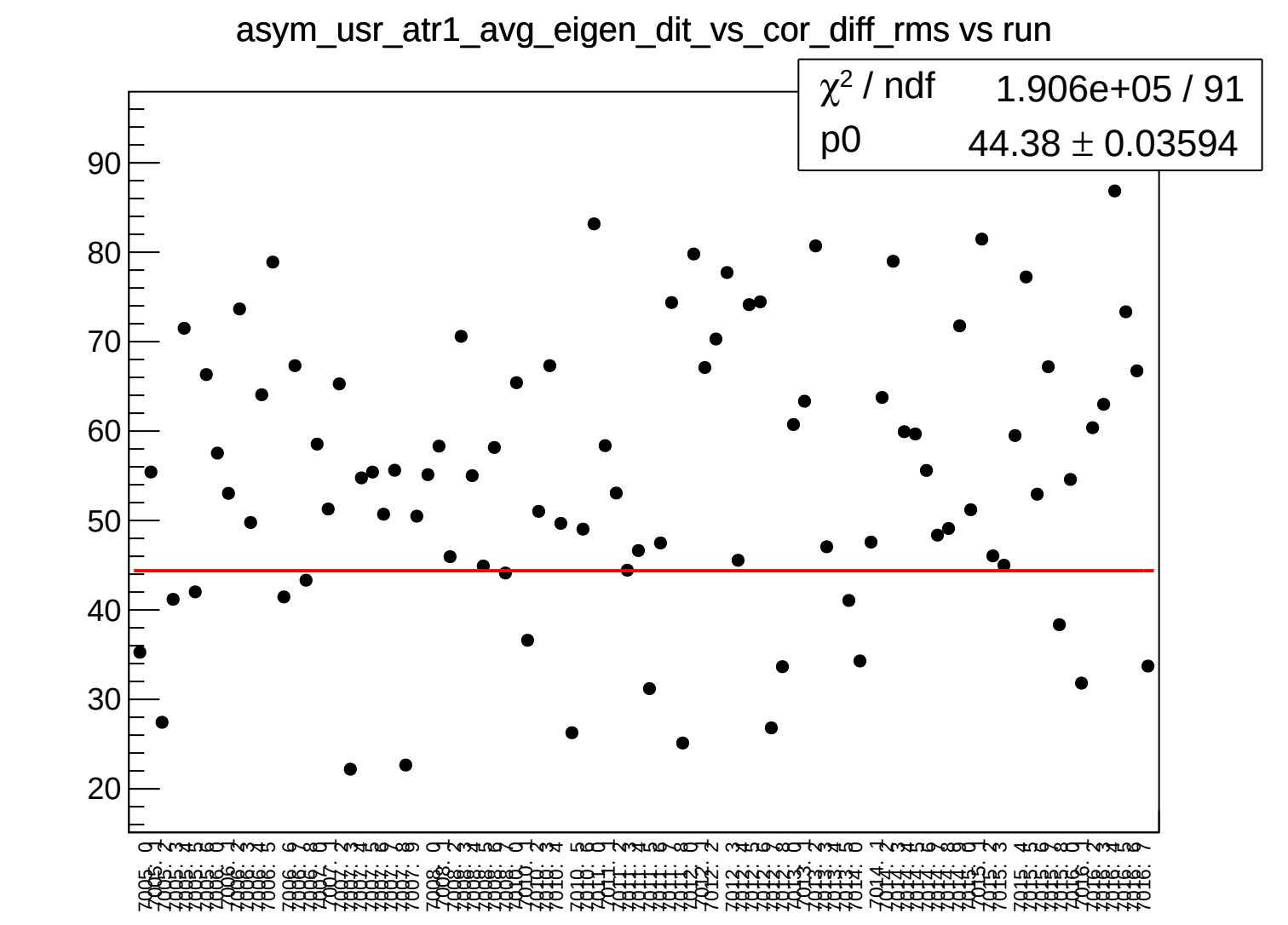

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.906e+05 / 91
p0 44.38 ± 0.03594
90
80
70
60
50
40
30
20

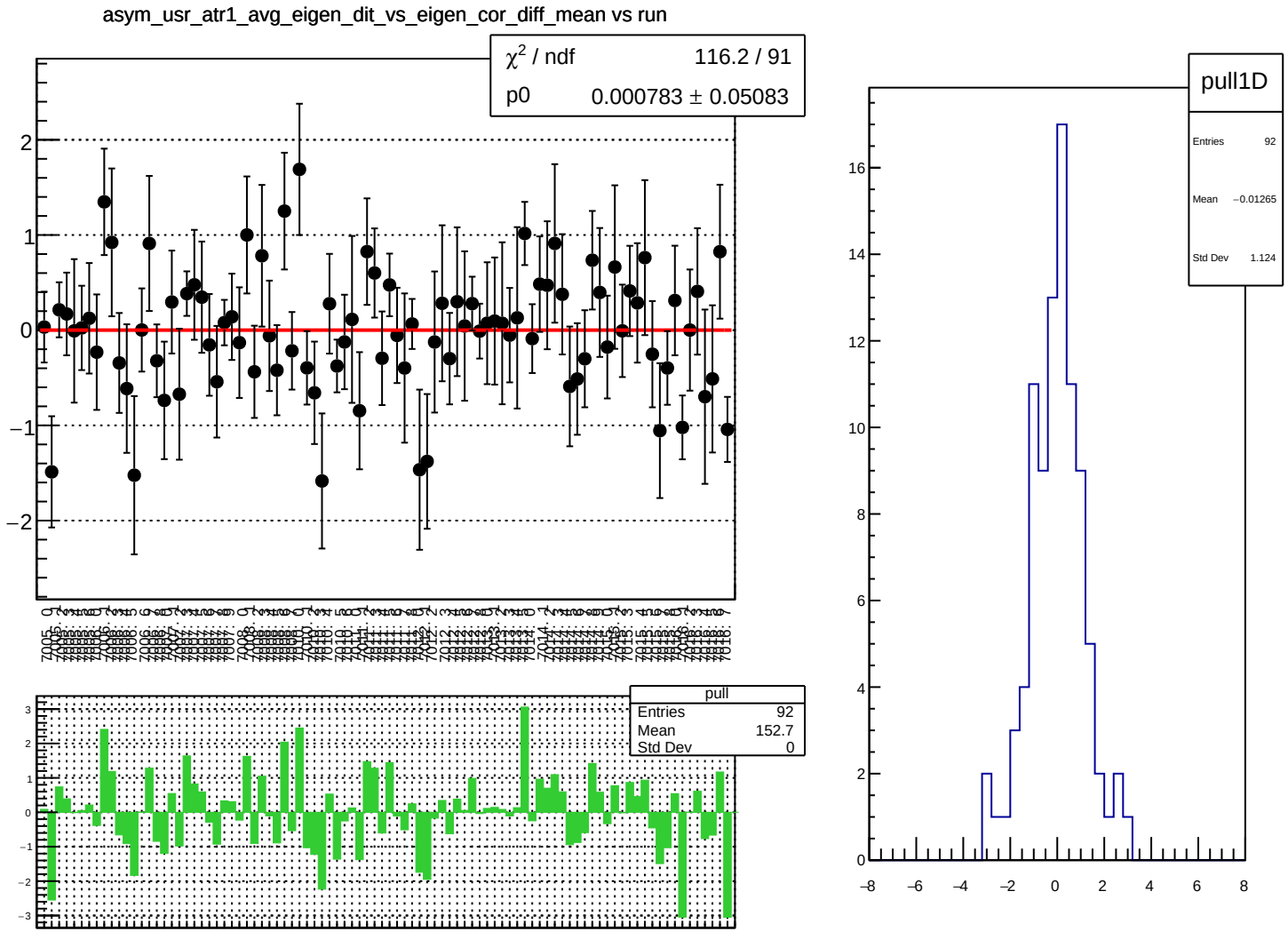

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.48 / 91
p0 −2.325e−06 ± 1.462e−06
pull
Entries 92
Mean 41.54
Std Dev 36.6

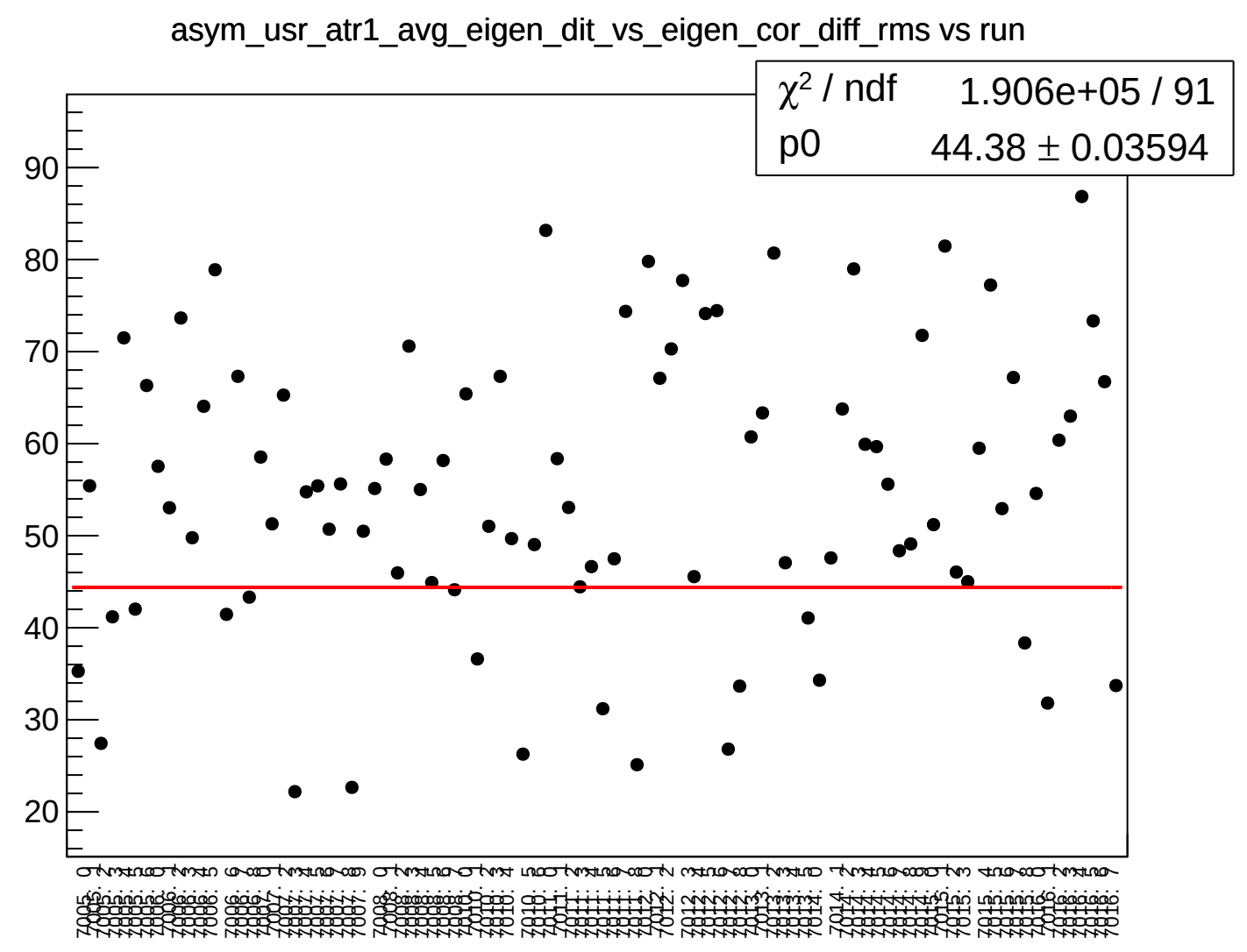

pull1D
Entries 92
Mean −0.004723
Std Dev 0.9807

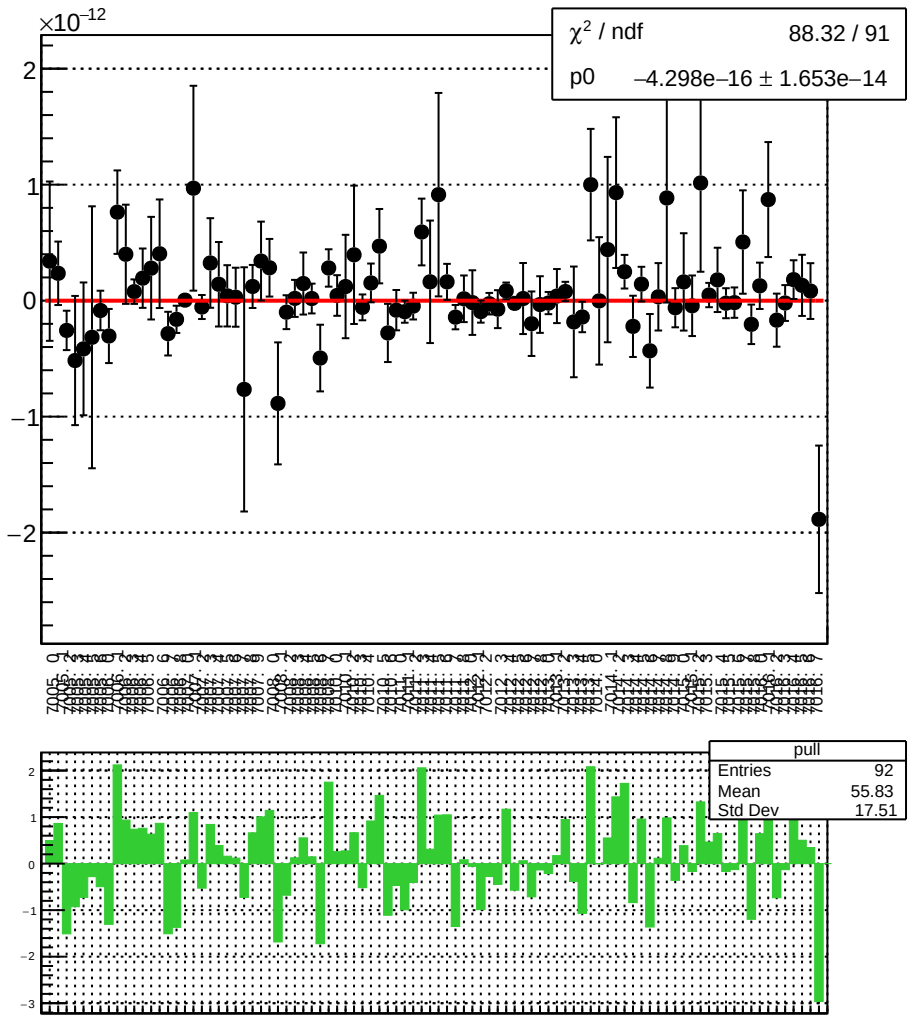

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7797 / 91
p0 0.001351 ± 1.034e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

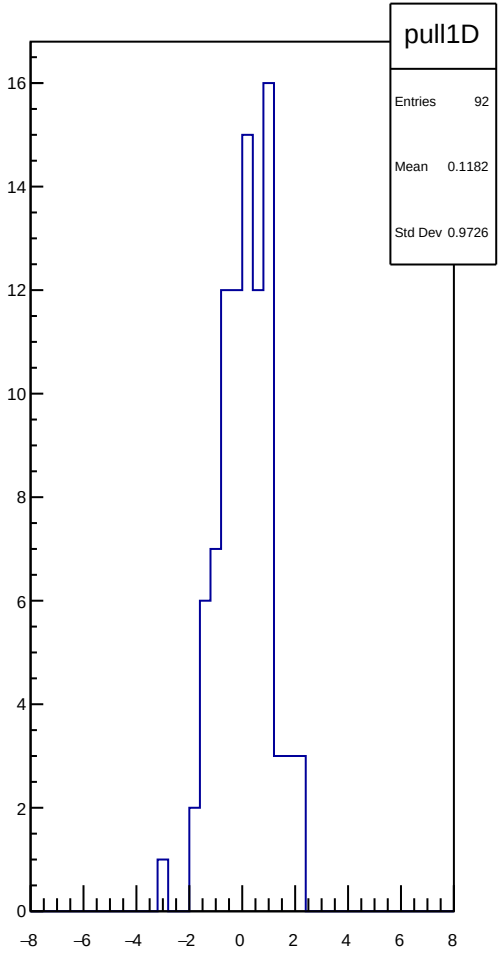

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.2 / 91
p0 0.000783 ± 0.05083
pull
Entries 92
Mean 152.7
Std Dev 0
pull1D
Entries 92
Mean −0.01265
Std Dev 1.124

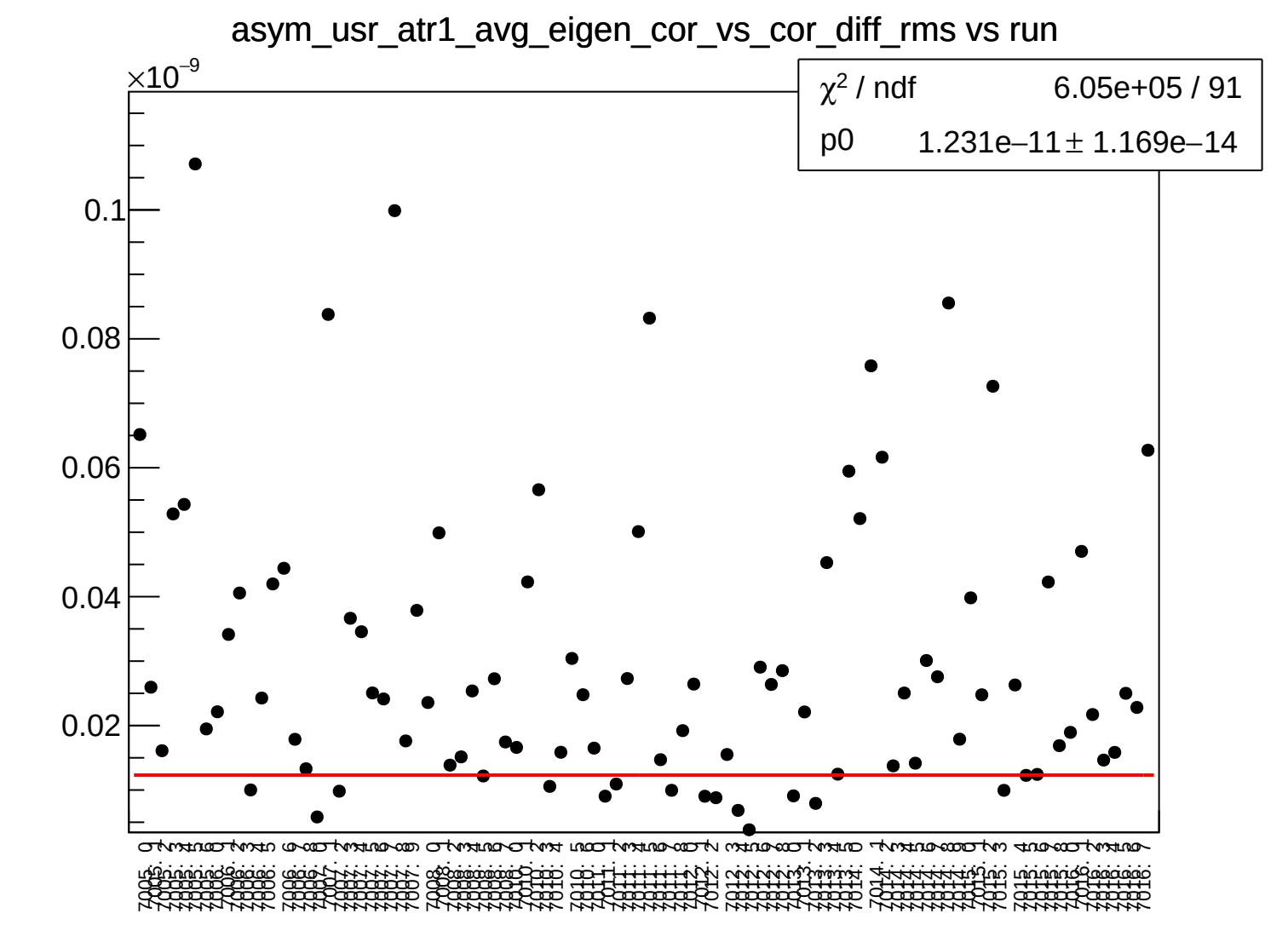

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.906e+05 / 91
p0 44.38 ± 0.03594
90
80
70
60
50
40
30
20

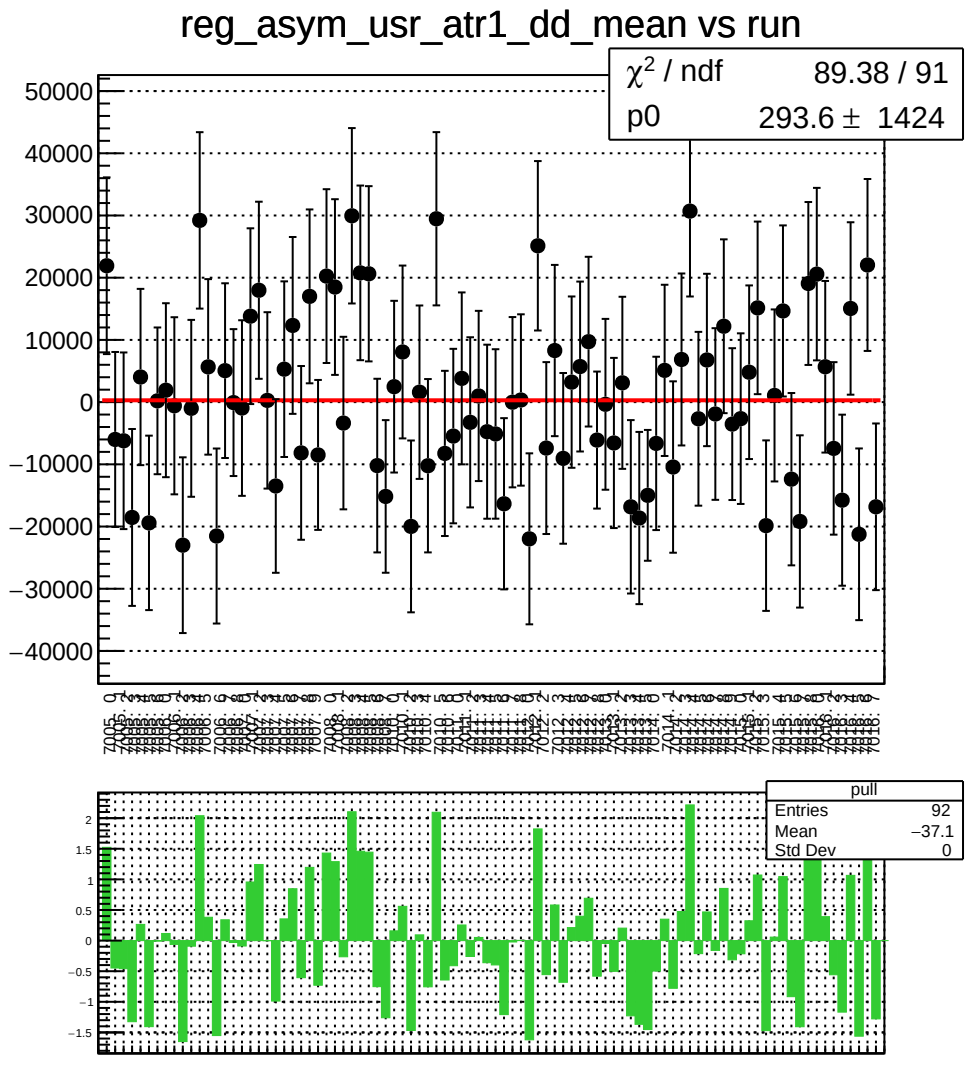

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.2 / 91
p0 0.000783 ± 0.05083
pull
Entries 92
Mean 152.7
Std Dev 0
pull1D
Entries 92
Mean −0.01265
Std Dev 1.124

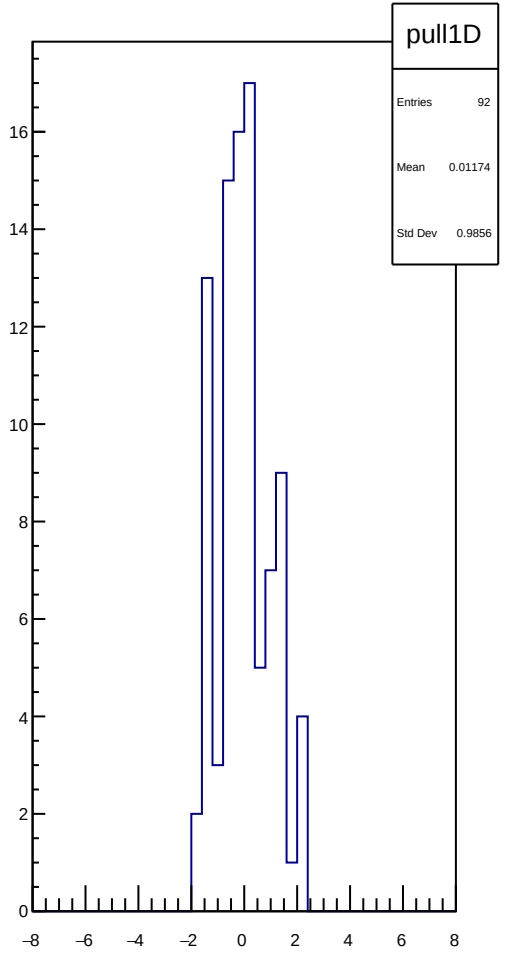

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.906e+05 / 91
p0 44.38 ± 0.03594
90
80
70
60
50
40
30
20

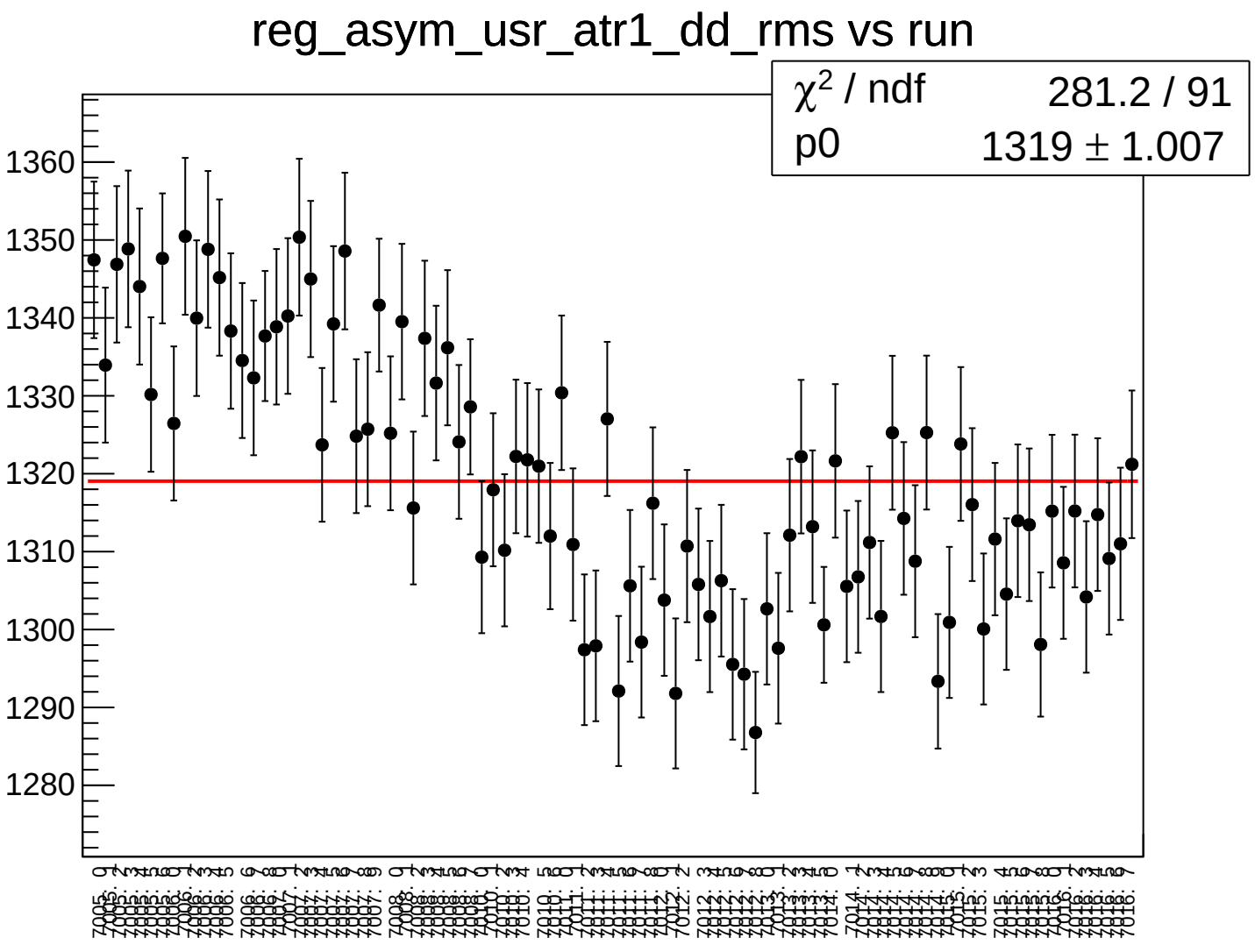

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.32 / 91
p0 −4.298e−16 ± 1.653e−14
pull
Entries 92
Mean 55.83
Std Dev 17.51

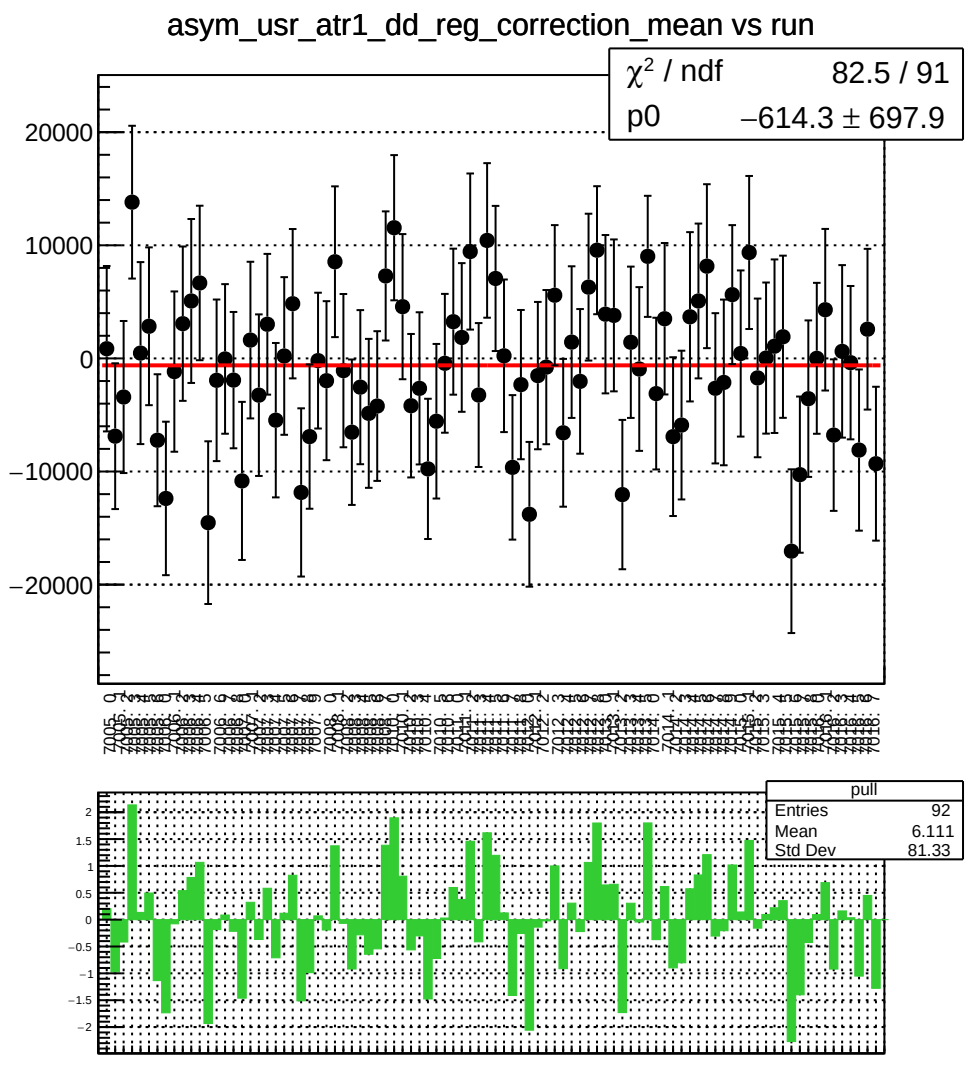

pull1D
Entries 92
Mean 0.1182
Std Dev 0.9726

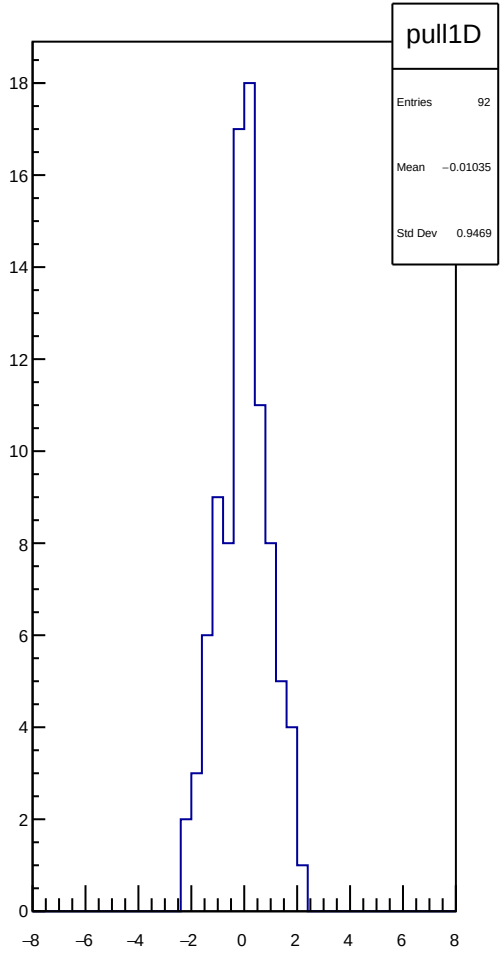

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.05e+05 / 91
p0 1.231e−11 ± 1.169e−14
0.1
0.08
0.06
0.04
0.02

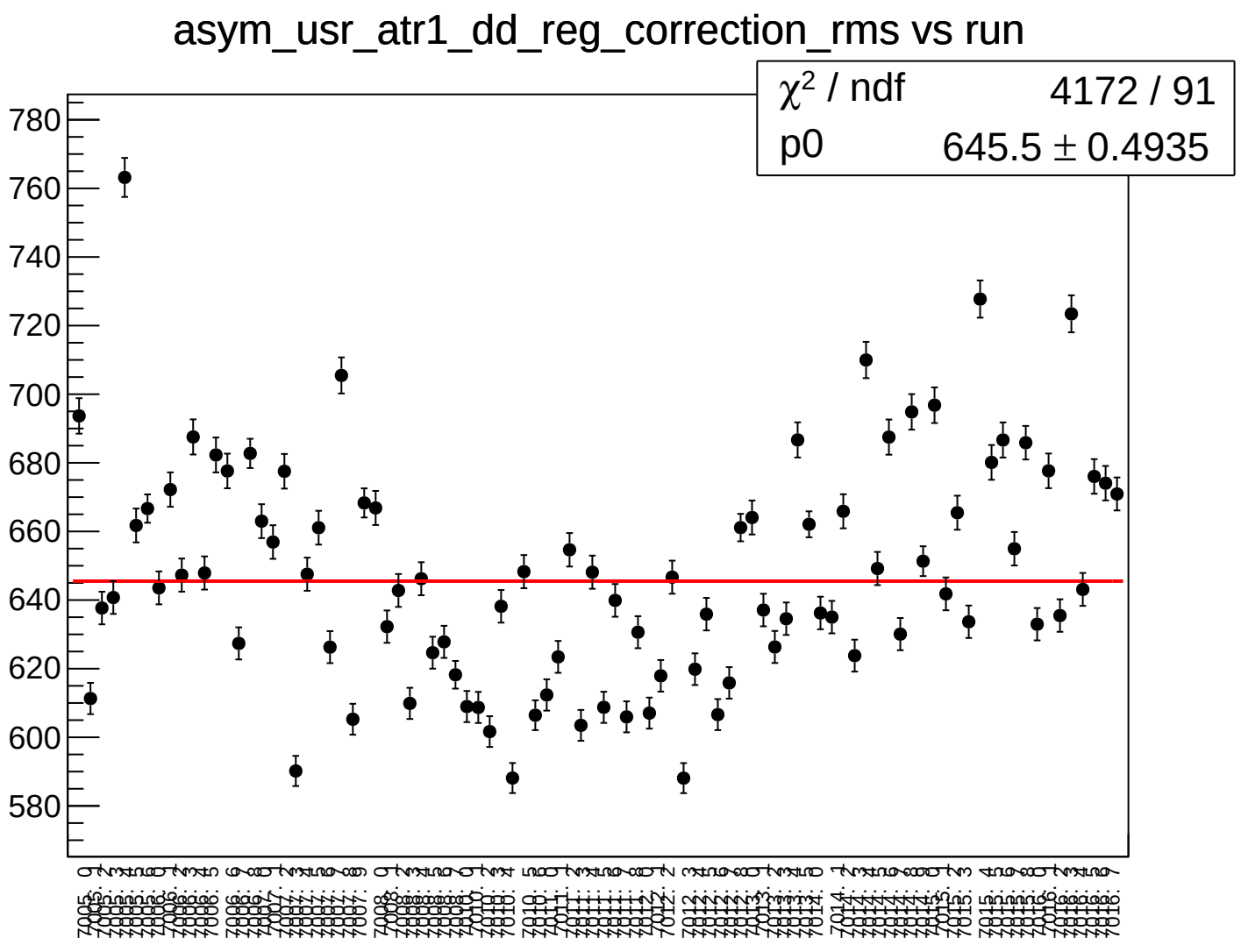

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.38 / 91
p0 293.6 ± 1424
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −37.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

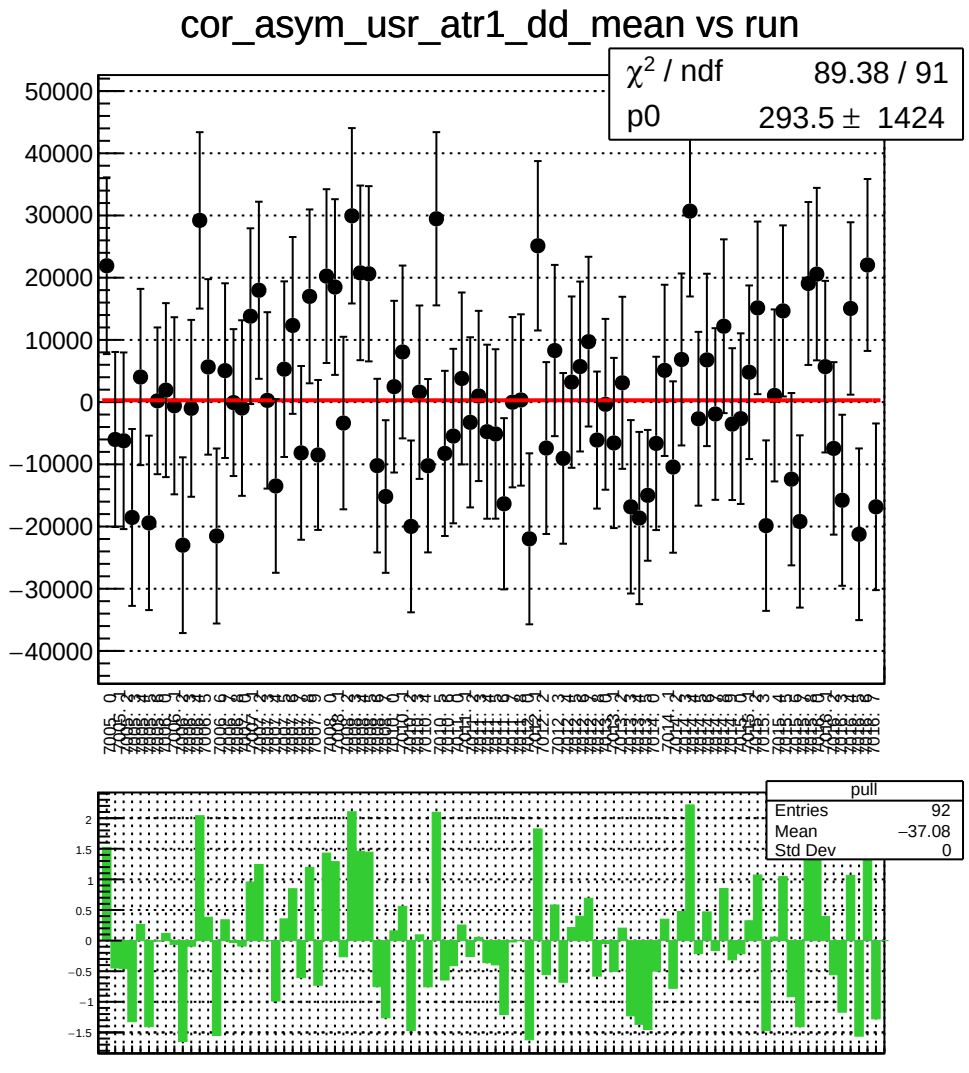

pull1D
Entries 92
Mean 0.01174
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

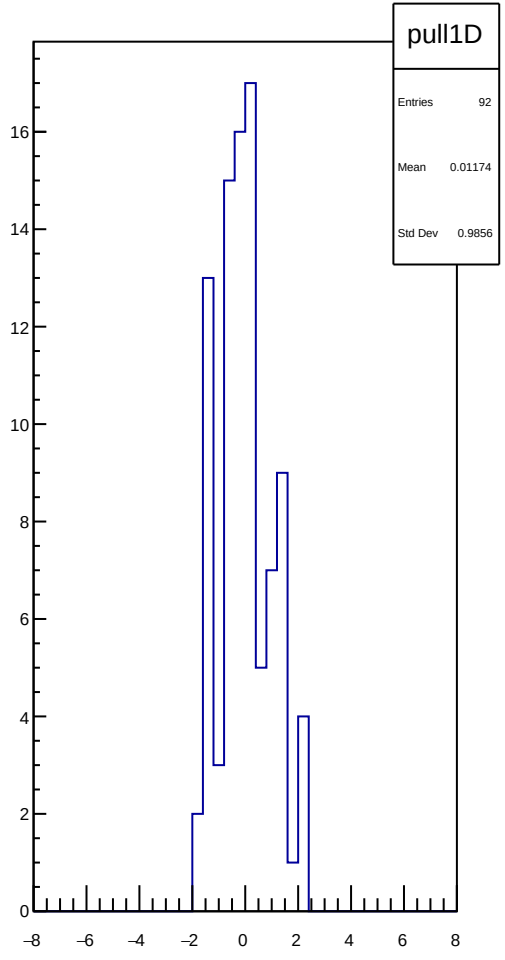

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 281.2 / 91
p0 1319 ± 1.007
1360
1350
1340
1330
1320
1310
1300
1290
1280

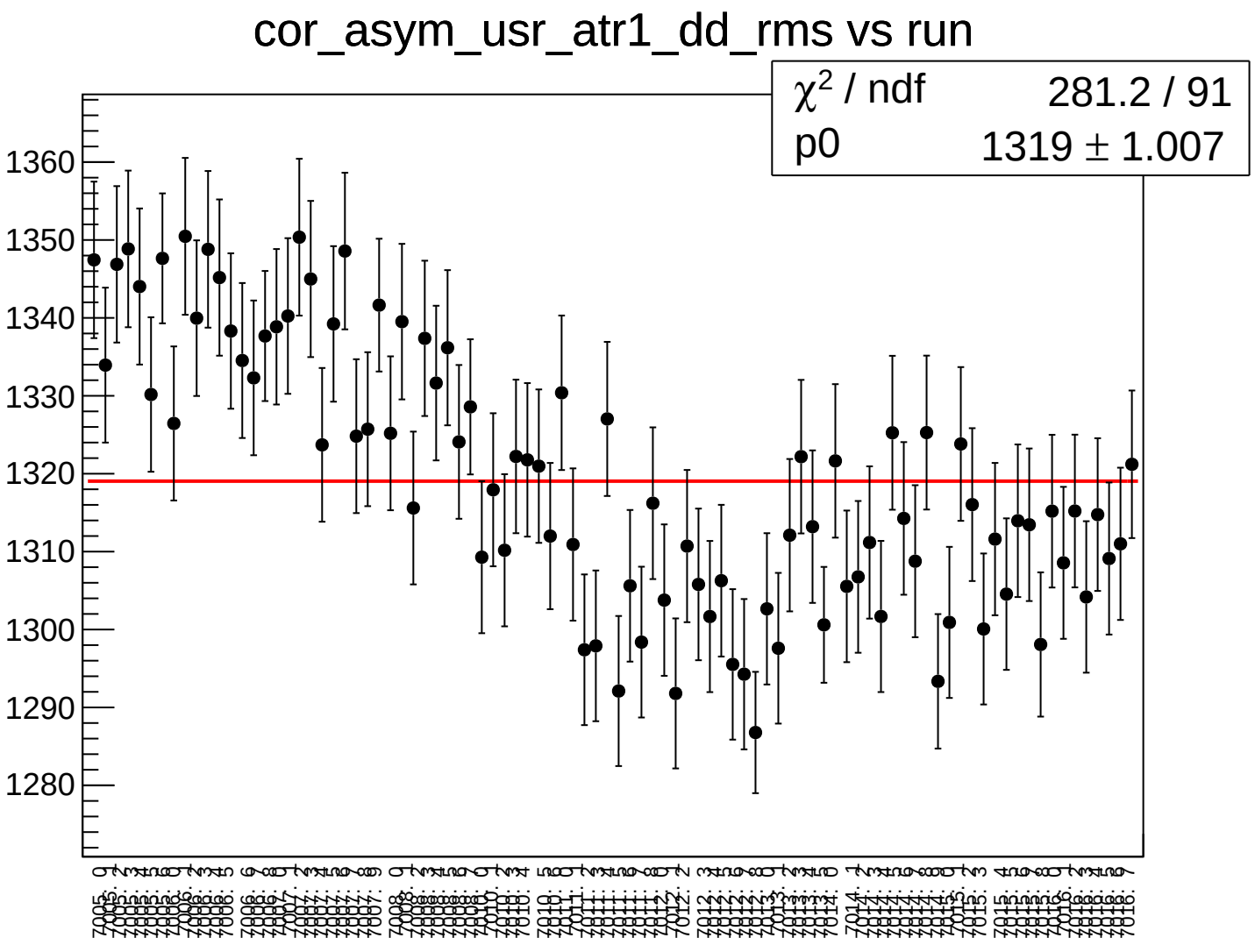

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 82.5 / 91
p0 −614.3 ± 697.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 6.111
Std Dev 81.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

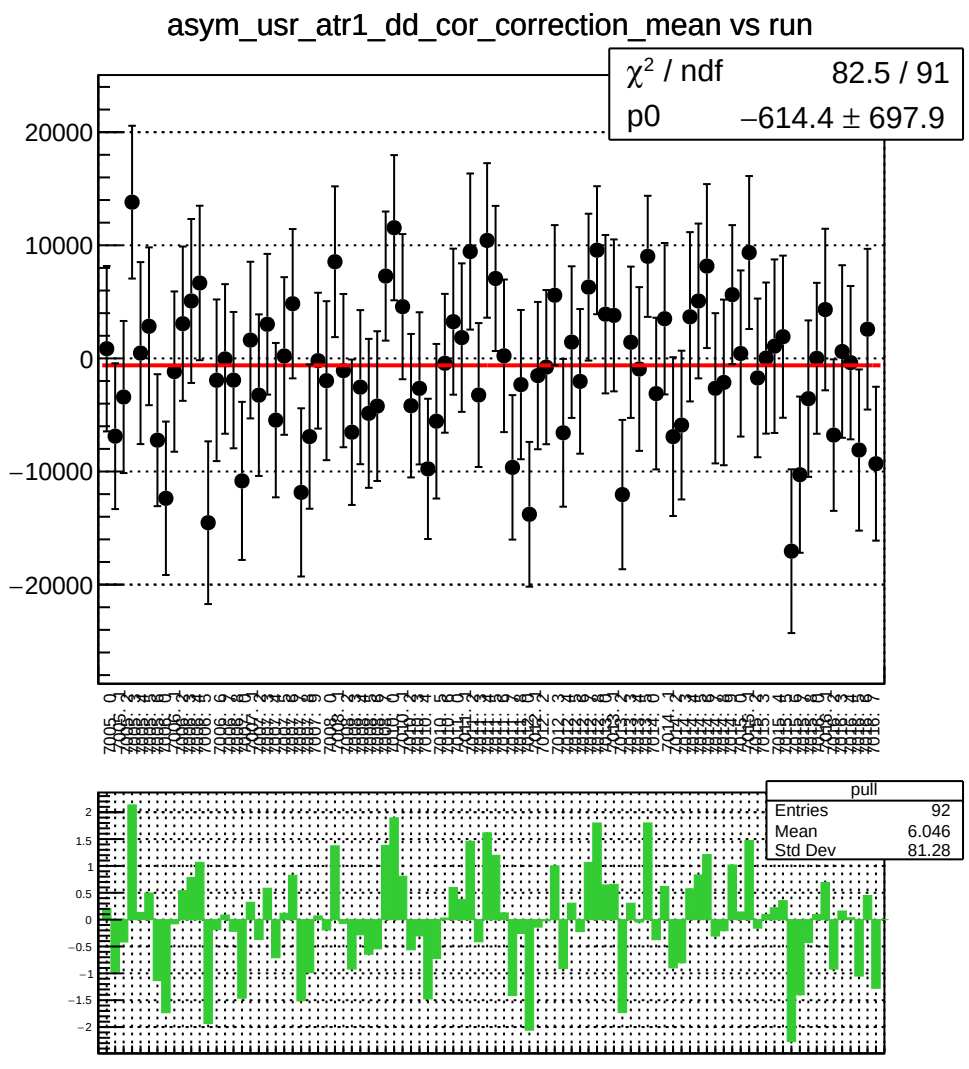

pull1D
Entries 92
Mean −0.01035
Std Dev 0.9469
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

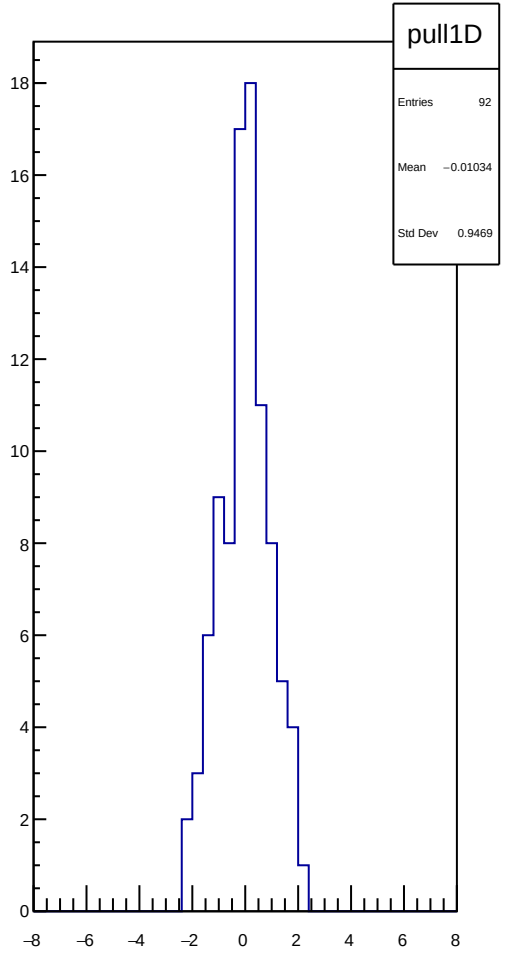

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4172 / 91
p0 645.5 ± 0.4935
780
760
740
720
700
680
660
640
620
600
580

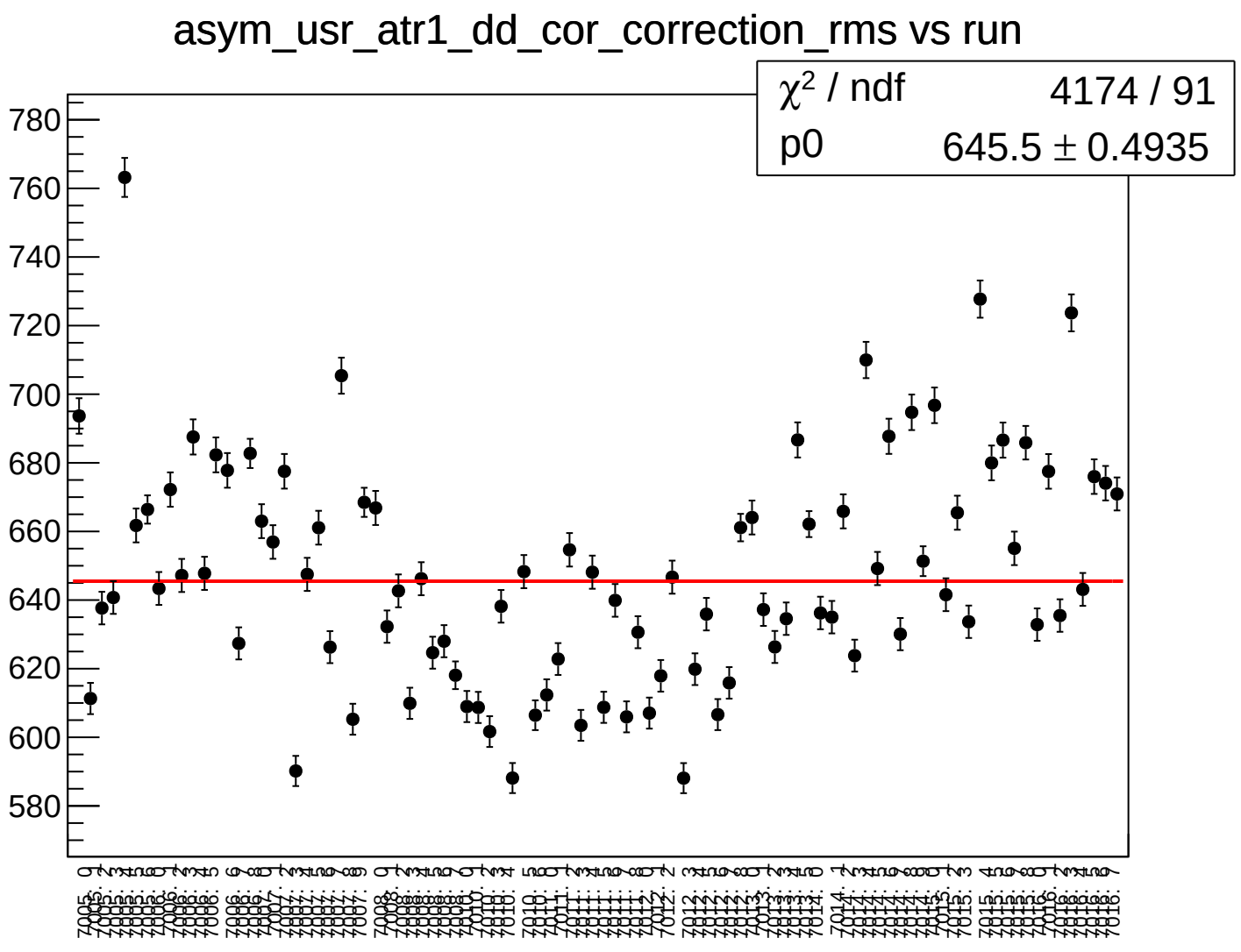

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.38 / 91
p0 293.5 ± 1424
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −37.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

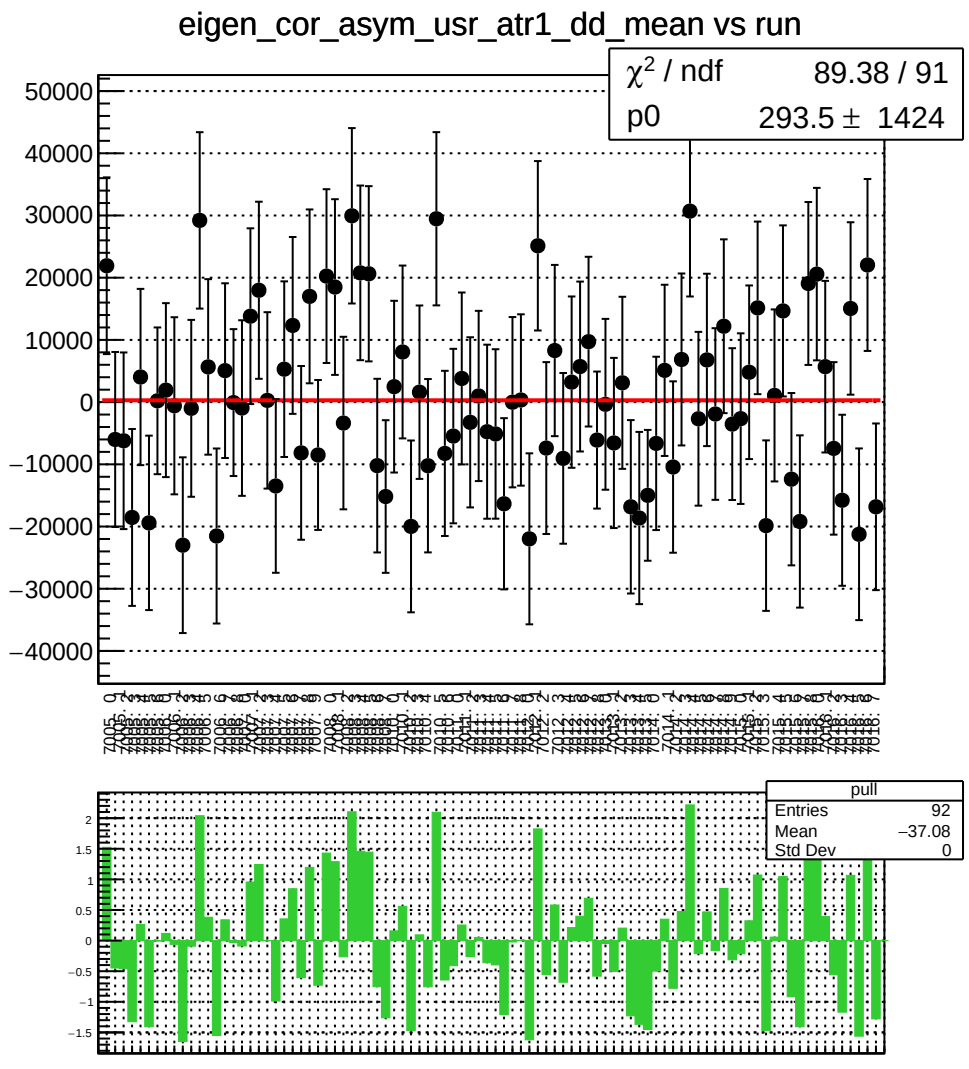

pull1D
Entries 92
Mean 0.01174
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

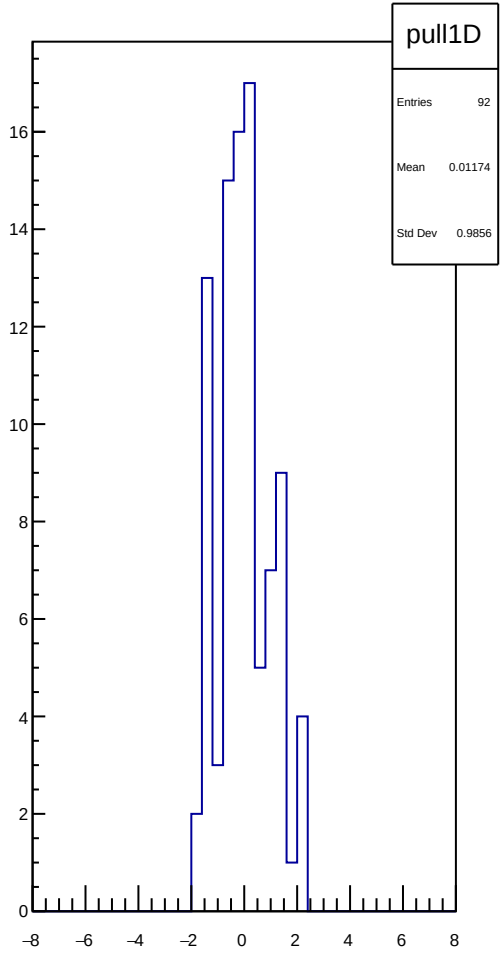

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 281.2 / 91
p0 1319 ± 1.007
1360
1350
1340
1330
1320
1310
1300
1290
1280

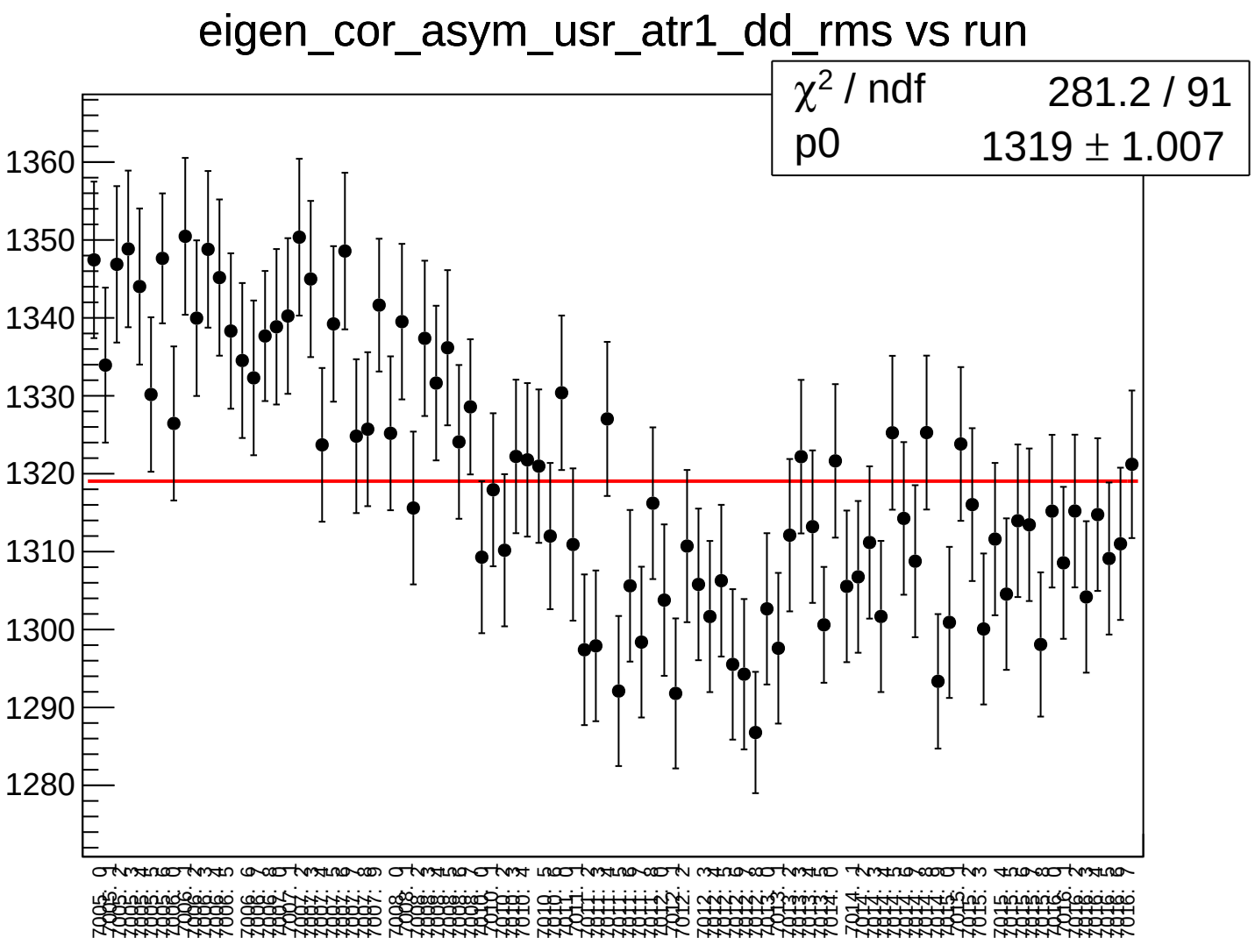

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 82.5 / 91
p0 −614.4 ± 697.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 6.046
Std Dev 81.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

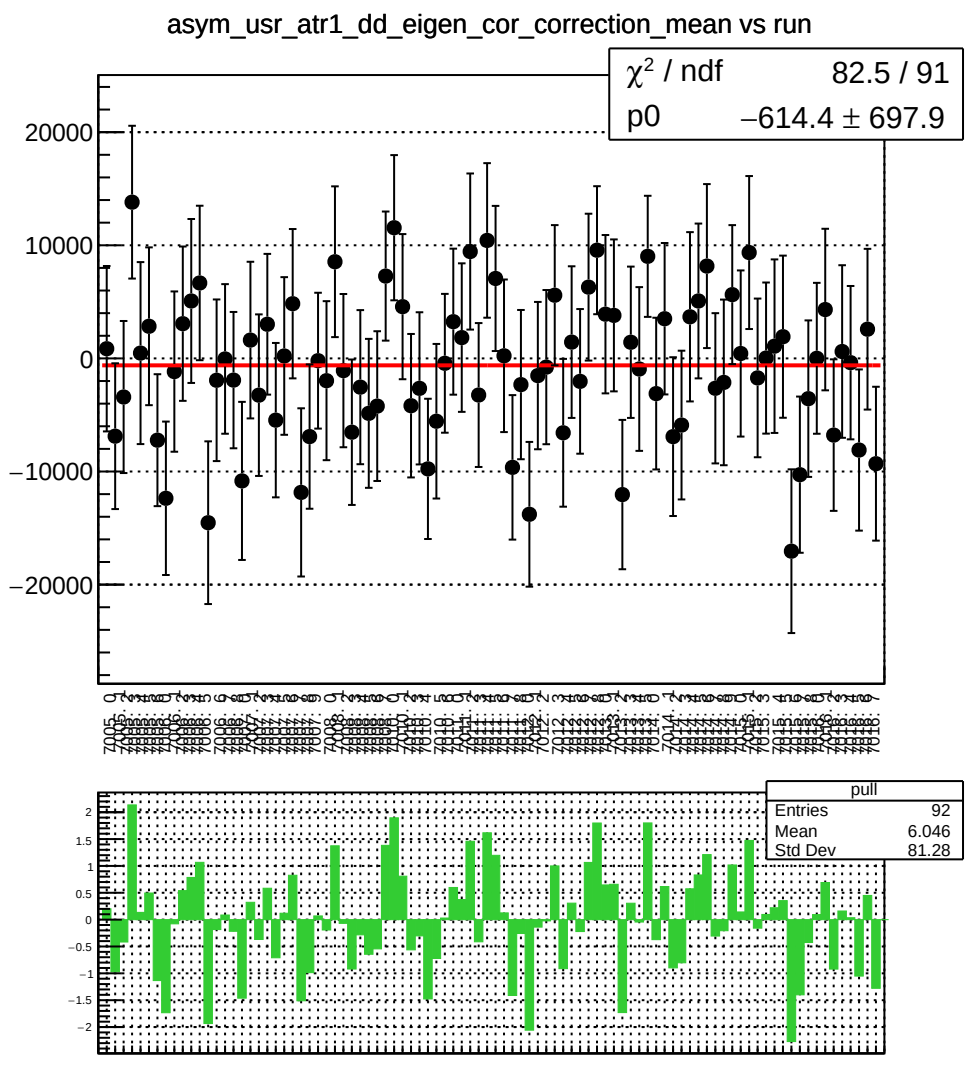

pull1D
Entries 92
Mean −0.01034
Std Dev 0.9469
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

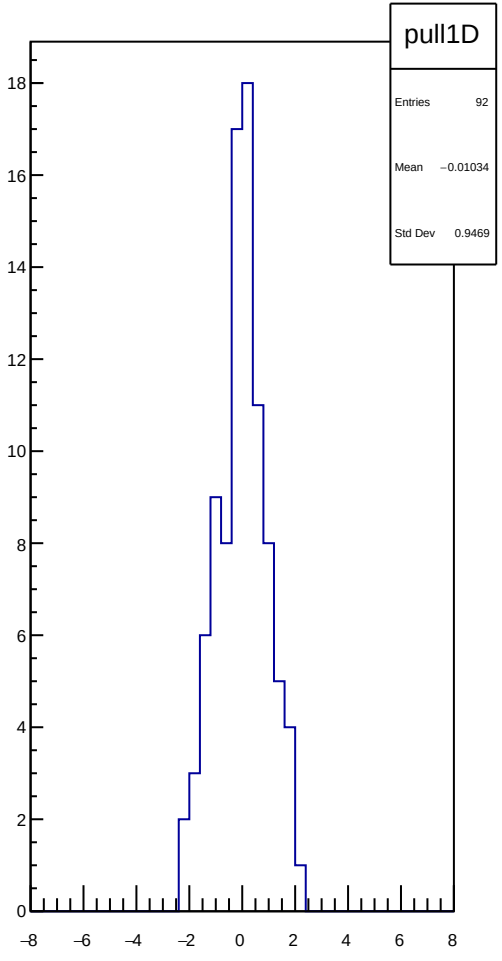

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 4174 / 91
p0 645.5 ± 0.4935
780
760
740
720
700
680
660
640
620
600
580

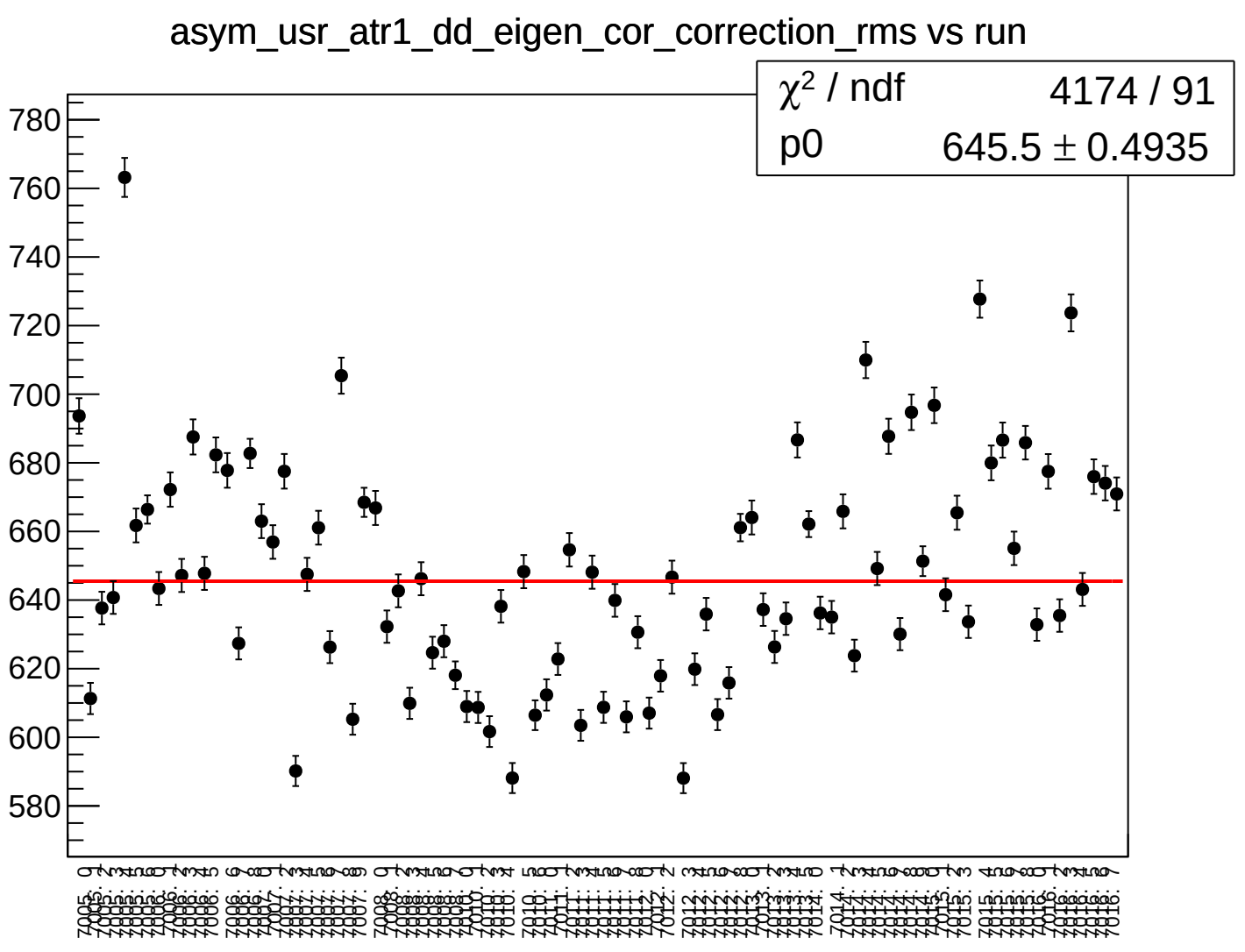

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 89.38 / 91
p0 293.5 ± 1424
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −37.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

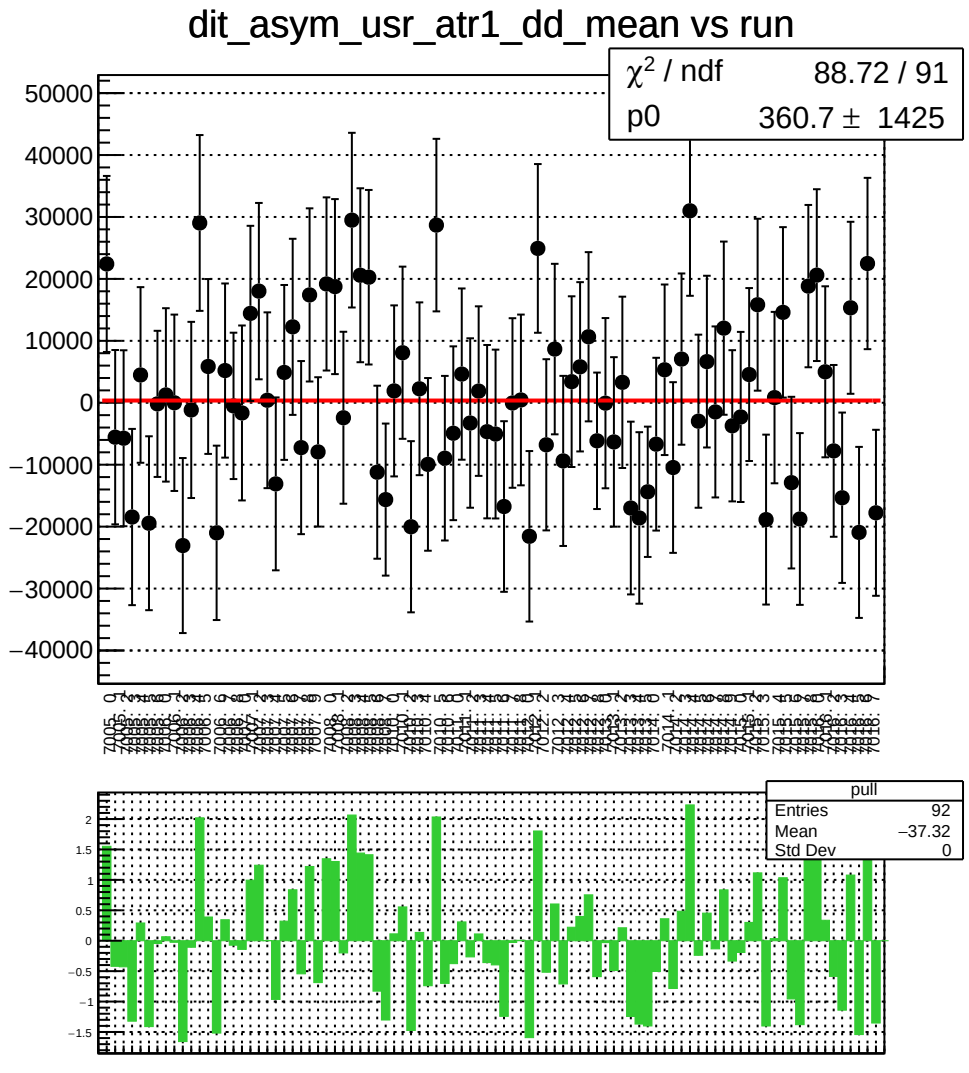

pull1D
Entries 92
Mean 0.01174
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

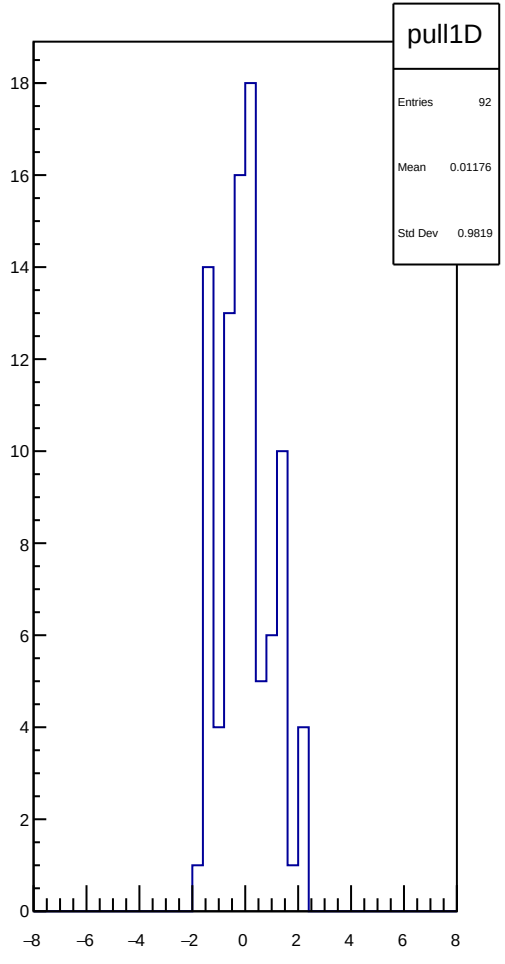

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 281.2 / 91
p0 1319 ± 1.007
1360
1350
1340
1330
1320
1310
1300
1290
1280

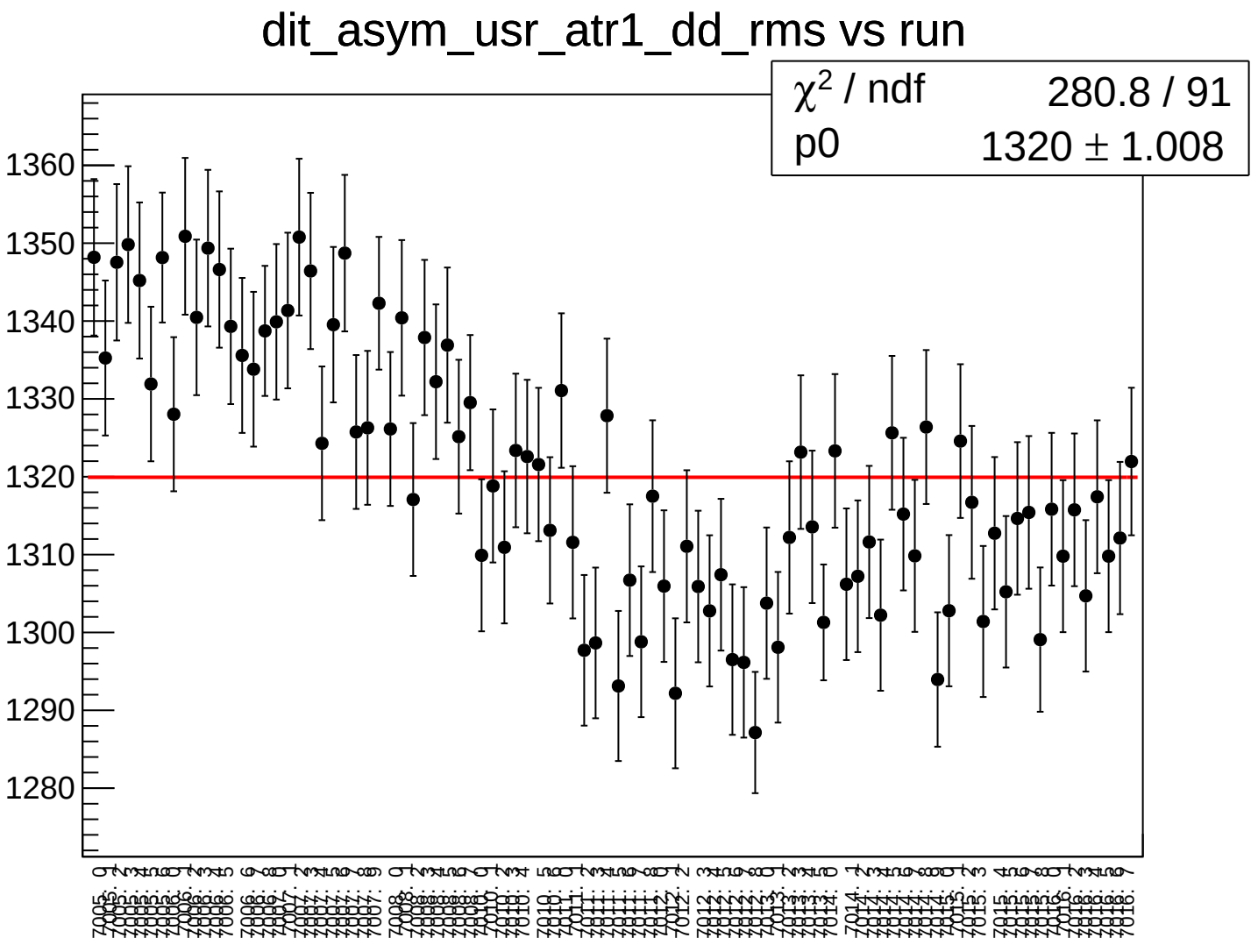

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.5 / 91
p0 −614.4 ± 697.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 6.046
Std Dev 81.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

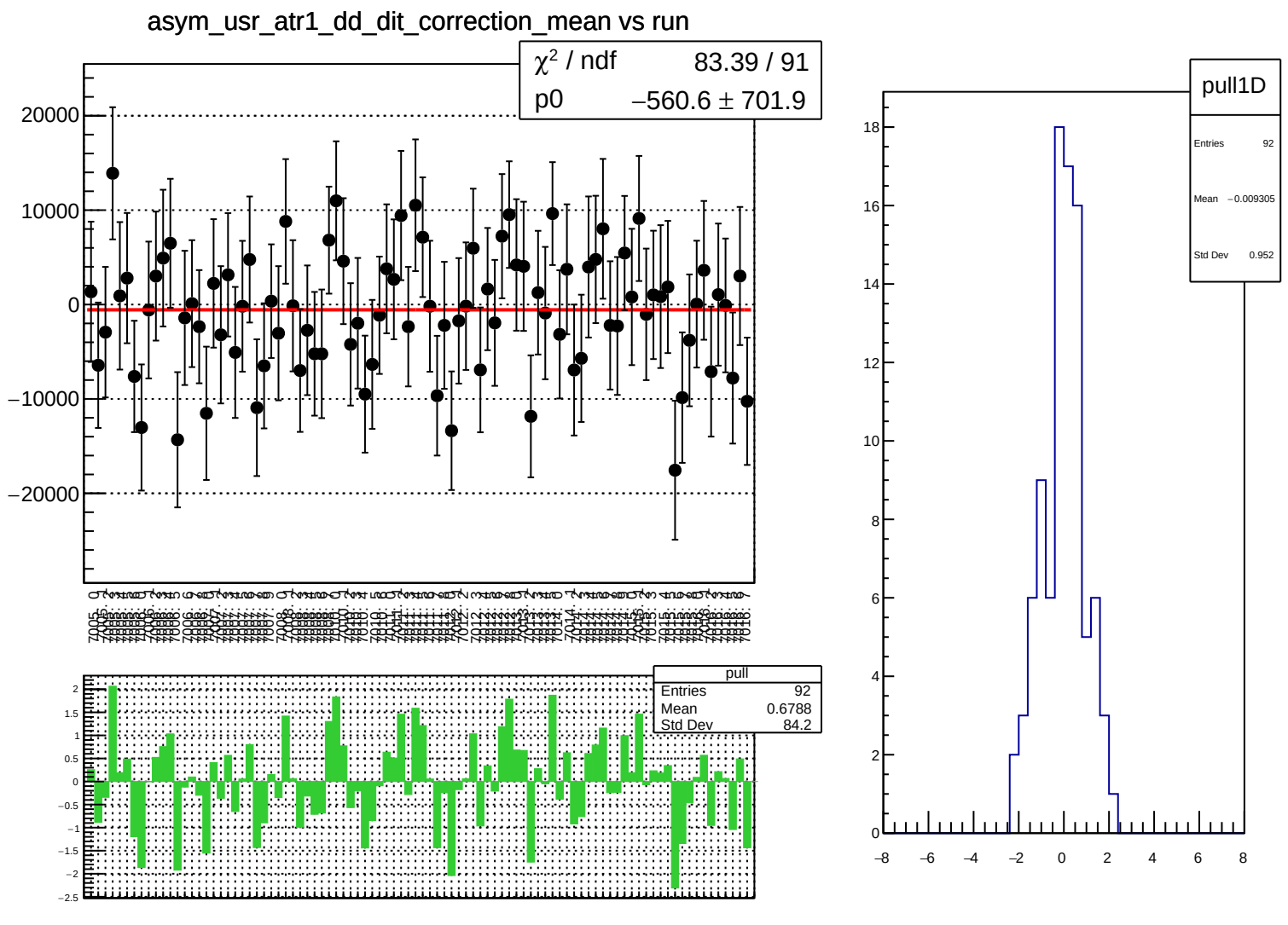

pull1D
Entries 92
Mean −0.01034
Std Dev 0.9469
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

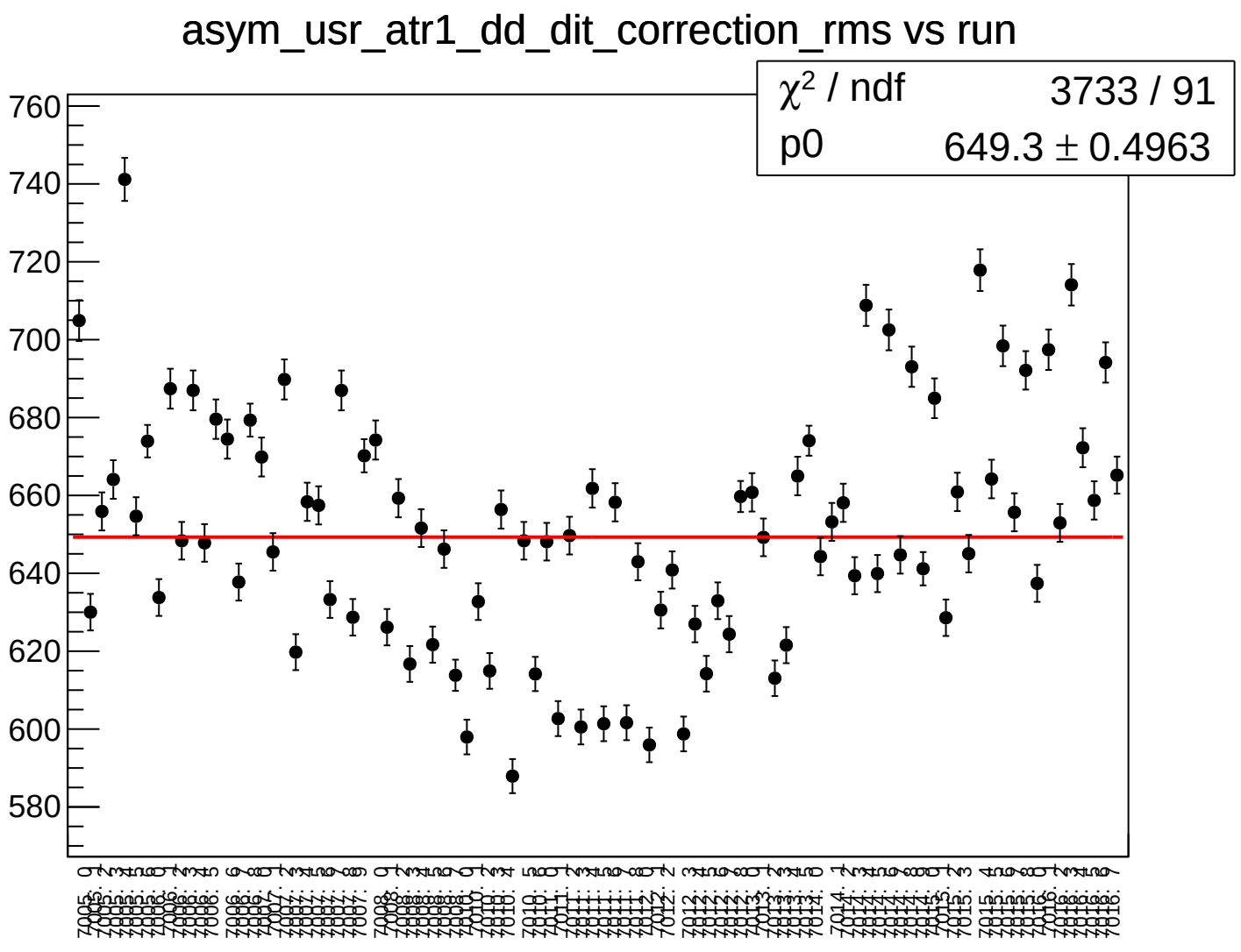

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4174 / 91
p0 645.5 ± 0.4935
780
760
740
720
700
680
660
640
620
600
580

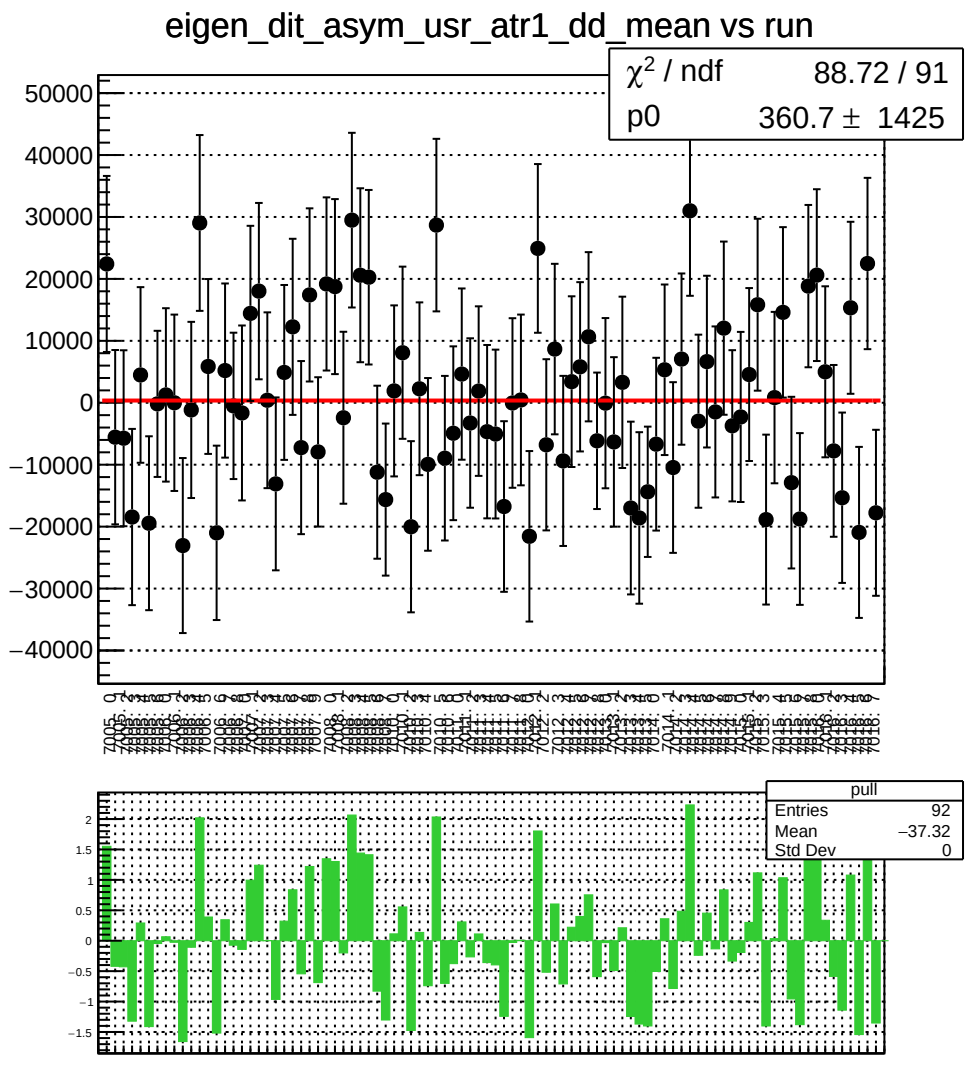

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 88.72 / 91
p0 360.7 ± 1425
pull
Entries 92
Mean −37.32
Std Dev 0

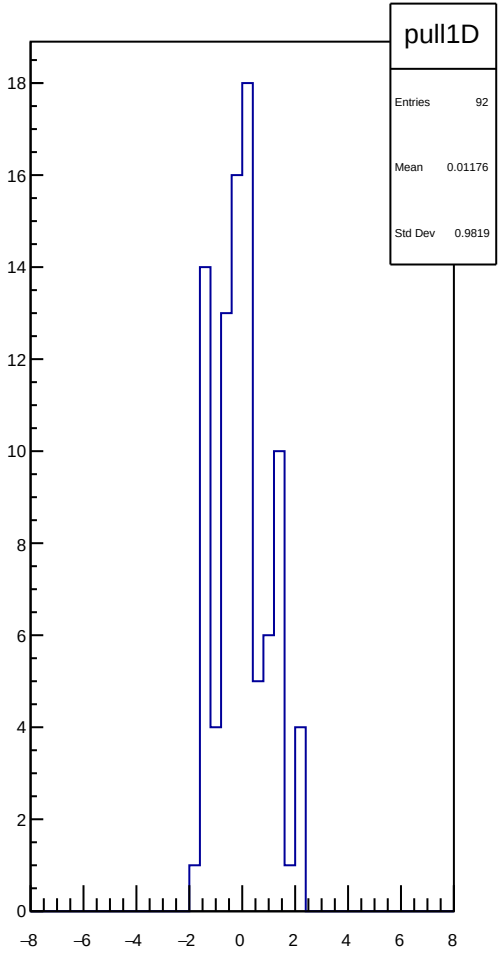

pull1D
Entries 92
Mean 0.01176
Std Dev 0.9819

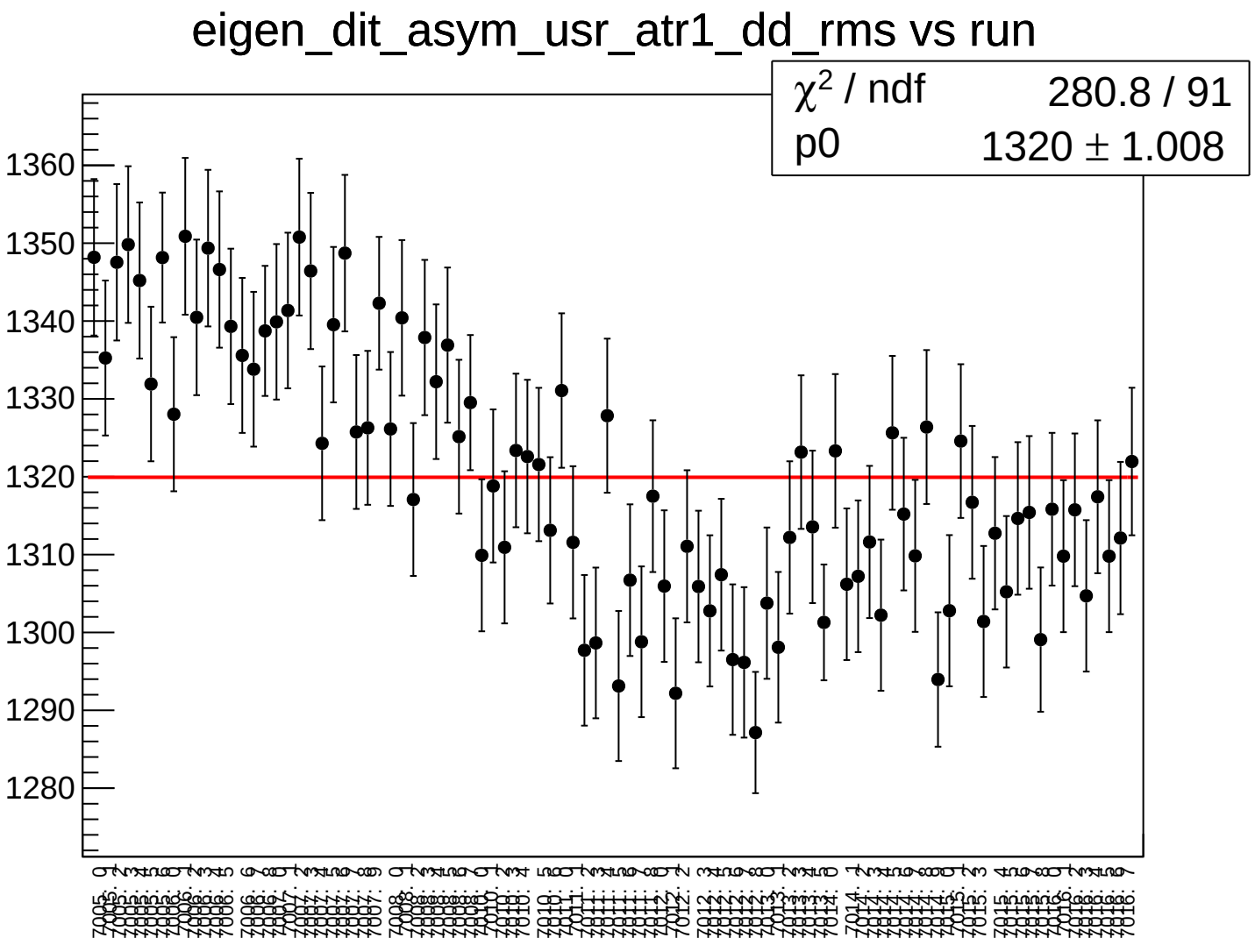

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 280.8 / 91
p0 1320 ± 1.008
1360
1350
1340
1330
1320
1310
1300
1290
1280

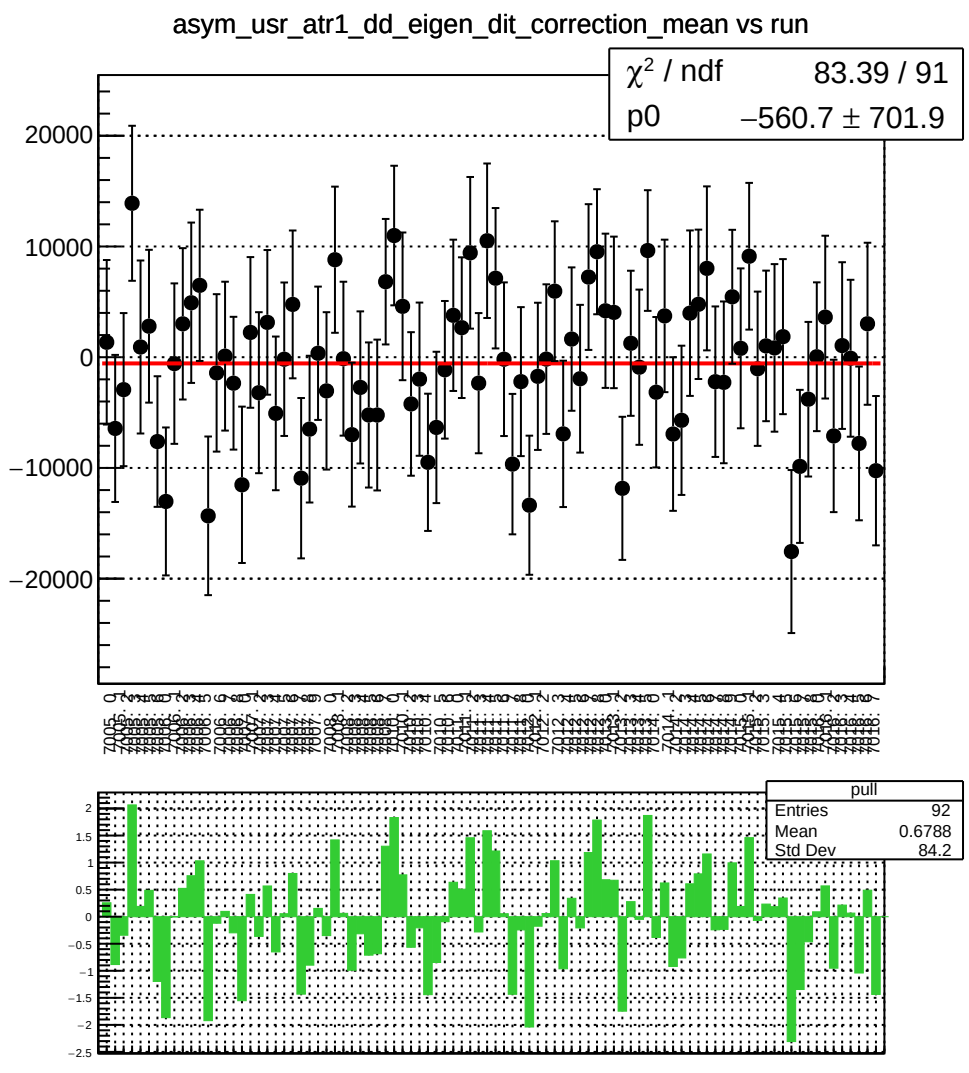

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 83.39 / 91
p0 −560.6 ± 701.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 0.6788
Std Dev 84.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.009305
Std Dev 0.952
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

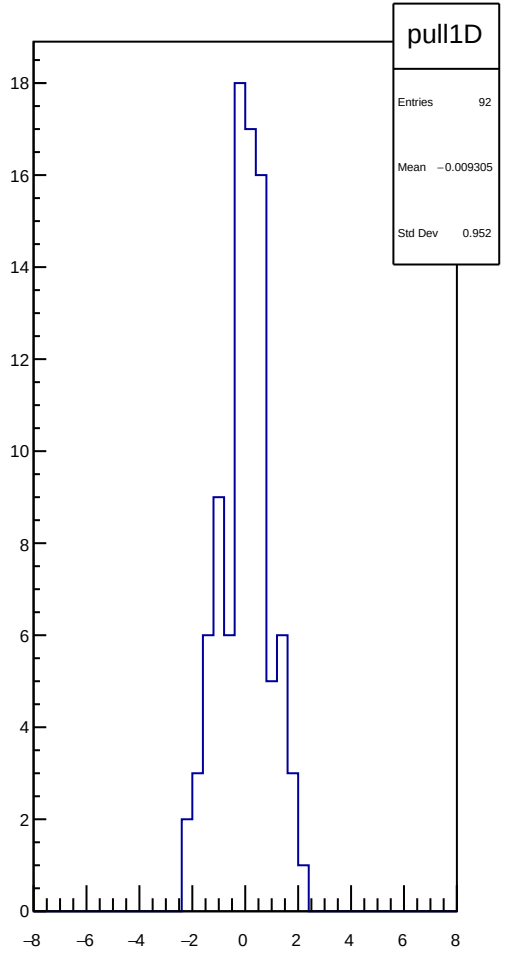

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 3733 / 91
p0 649.3 ± 0.4963
760
740
720
700
680
660
640
620
600
580

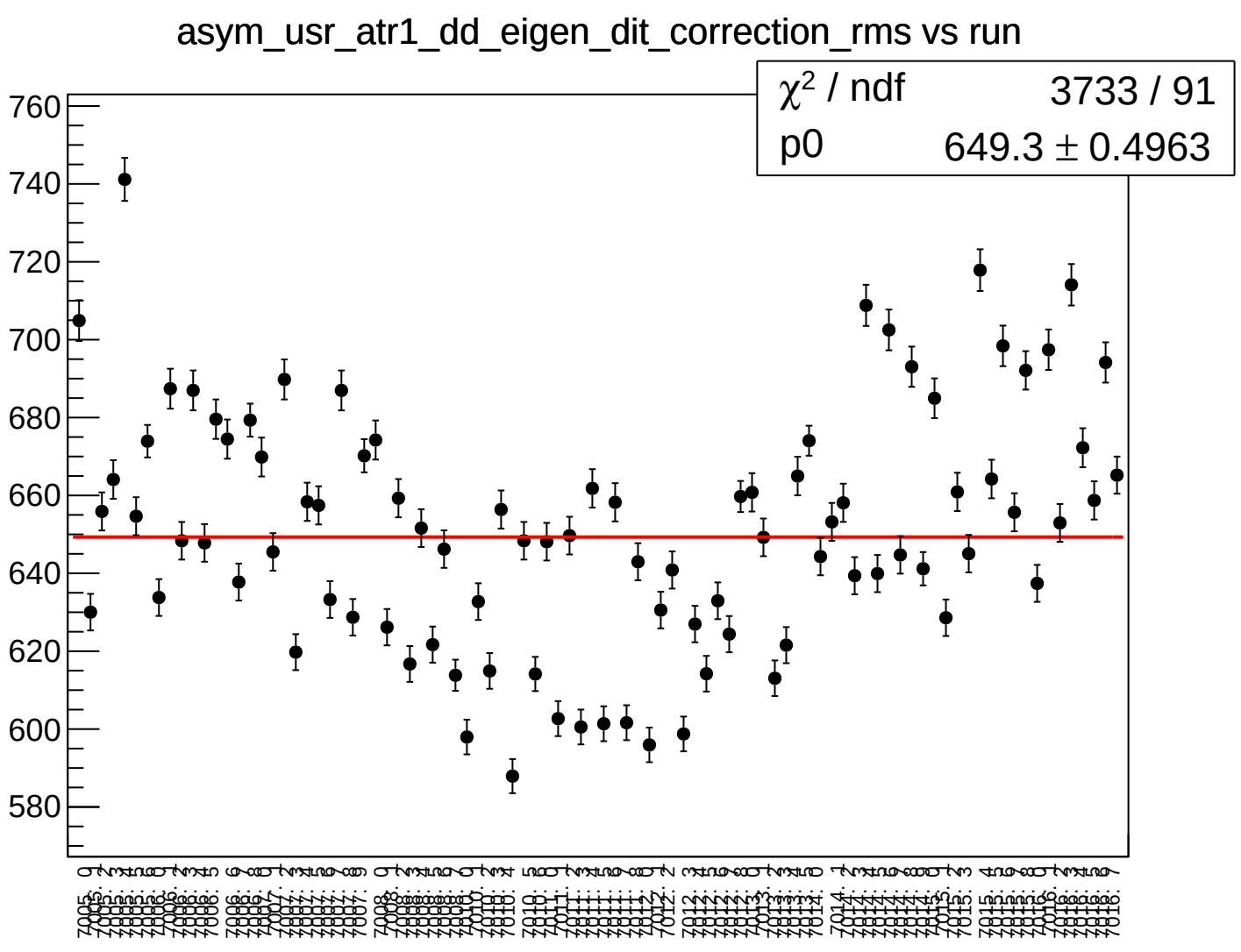

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 88.72 / 91
p0 360.7 ± 1425
pull
Entries 92
Mean −37.32
Std Dev 0

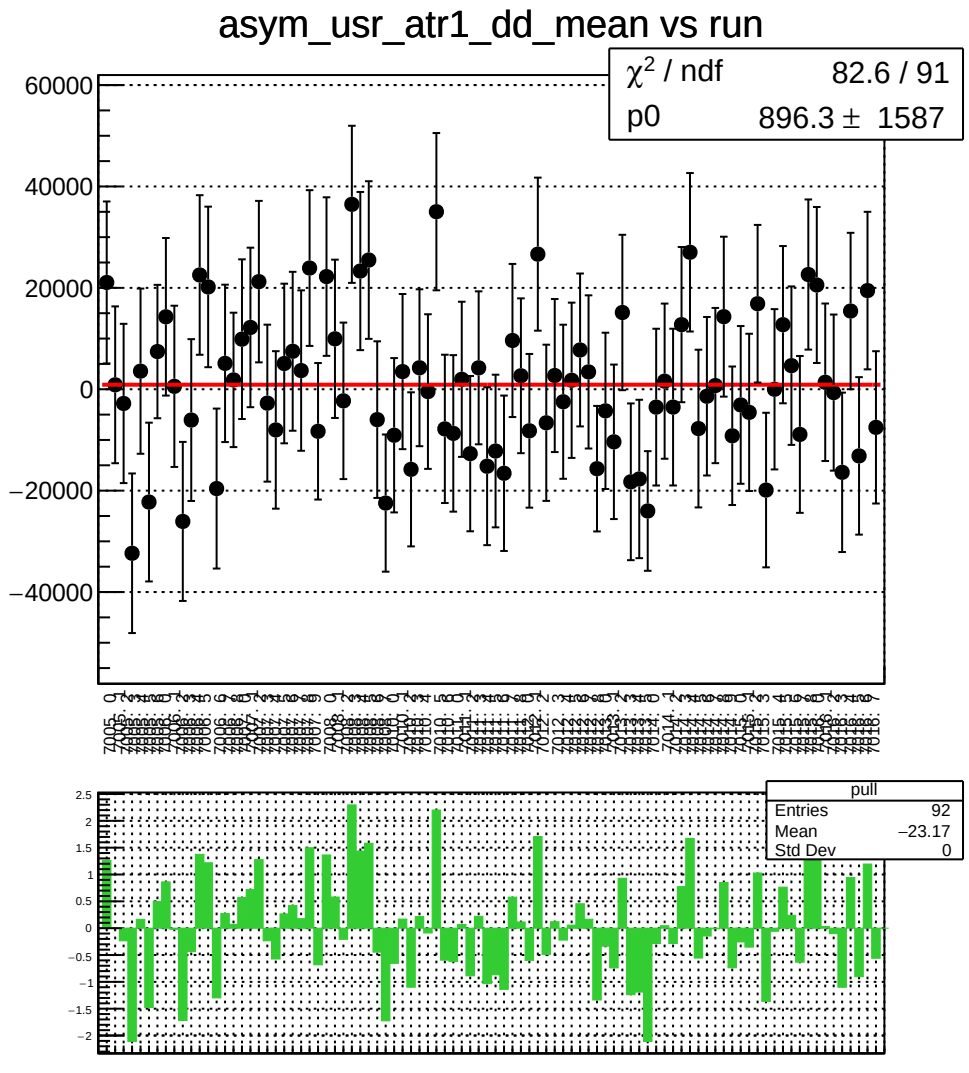

pull1D
Entries 92
Mean 0.01176
Std Dev 0.9819

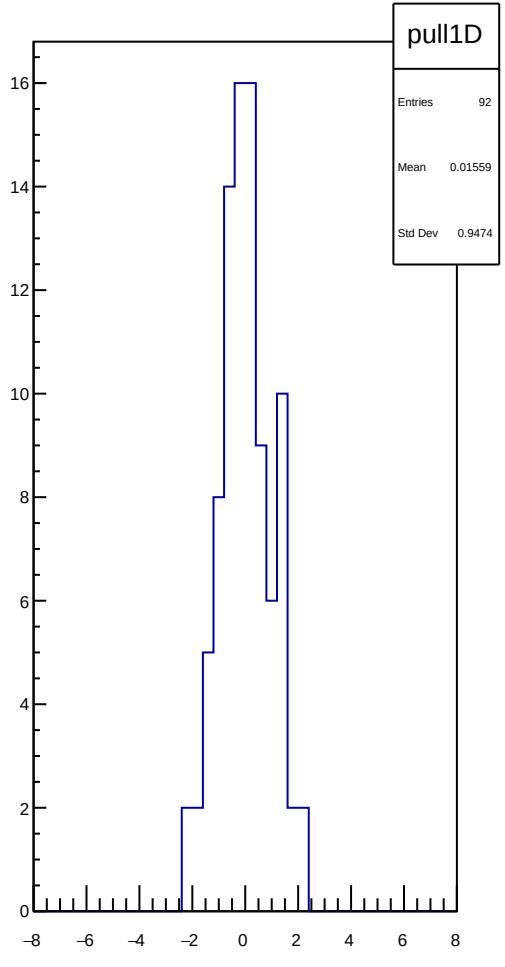

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 280.8 / 91
p0 1320 ± 1.008
1360
1350
1340
1330
1320
1310
1300
1290
1280

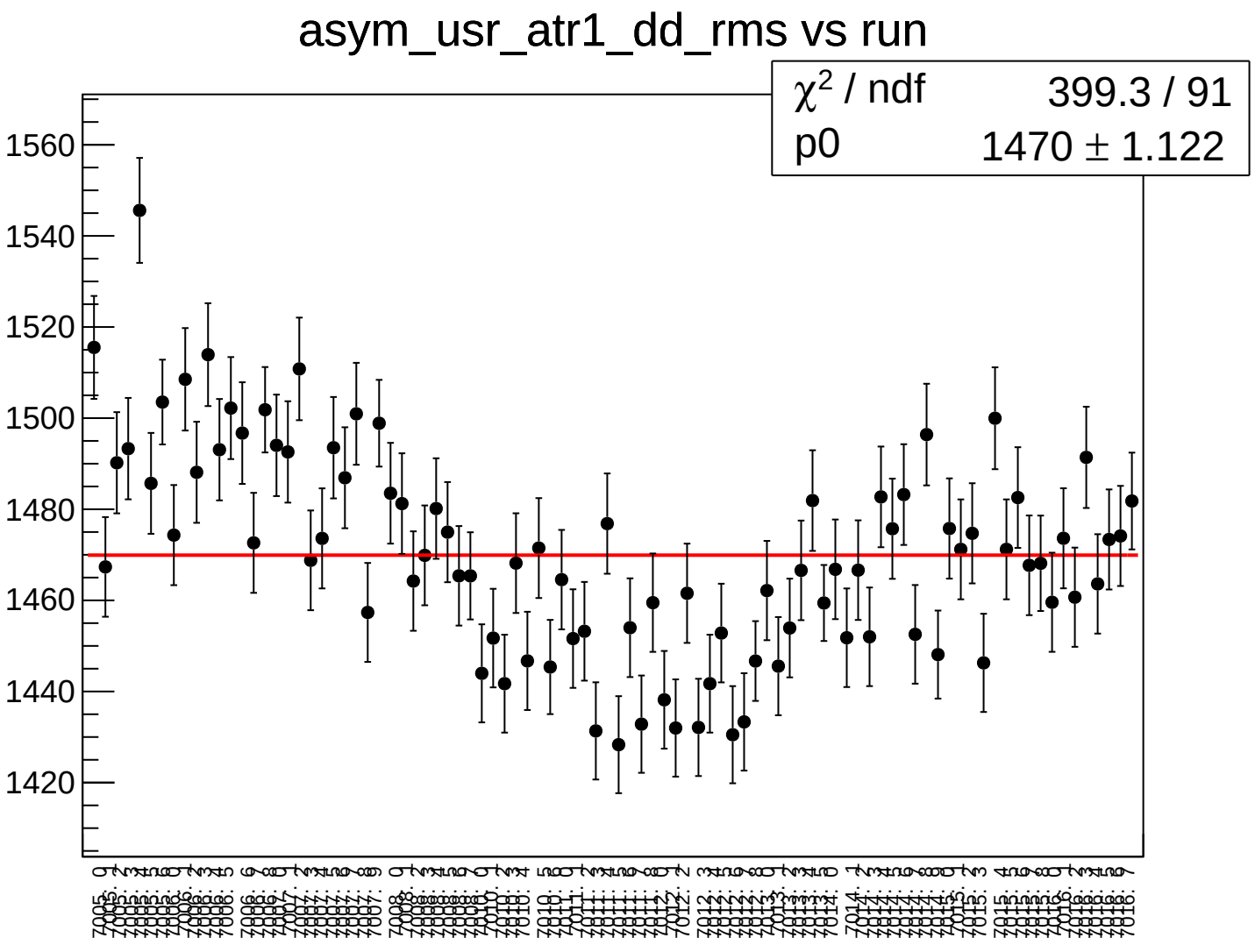

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.39 / 91
p0 −560.7 ± 701.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 0.6788
Std Dev 84.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

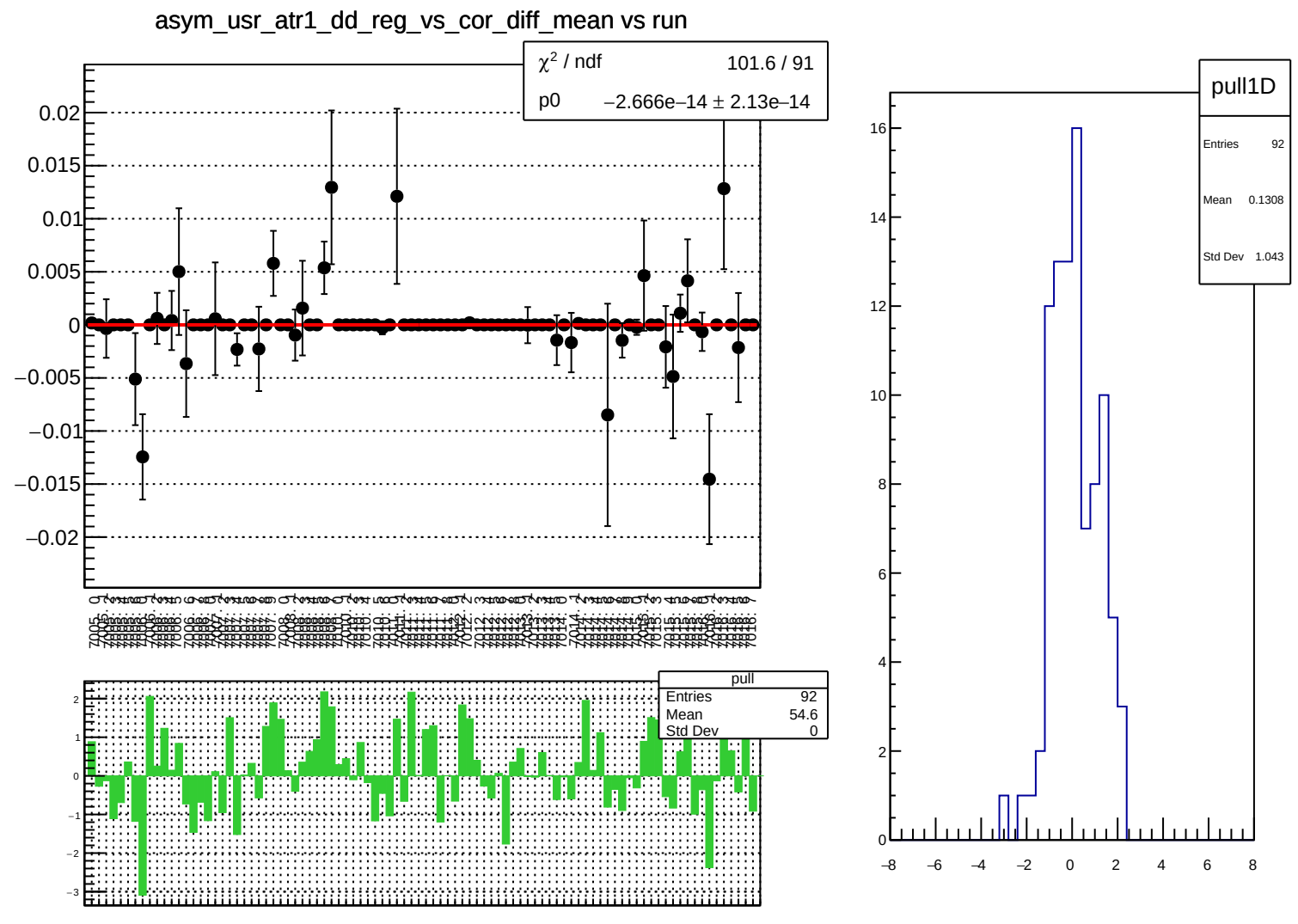

pull1D
Entries 92
Mean −0.009305
Std Dev 0.952
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

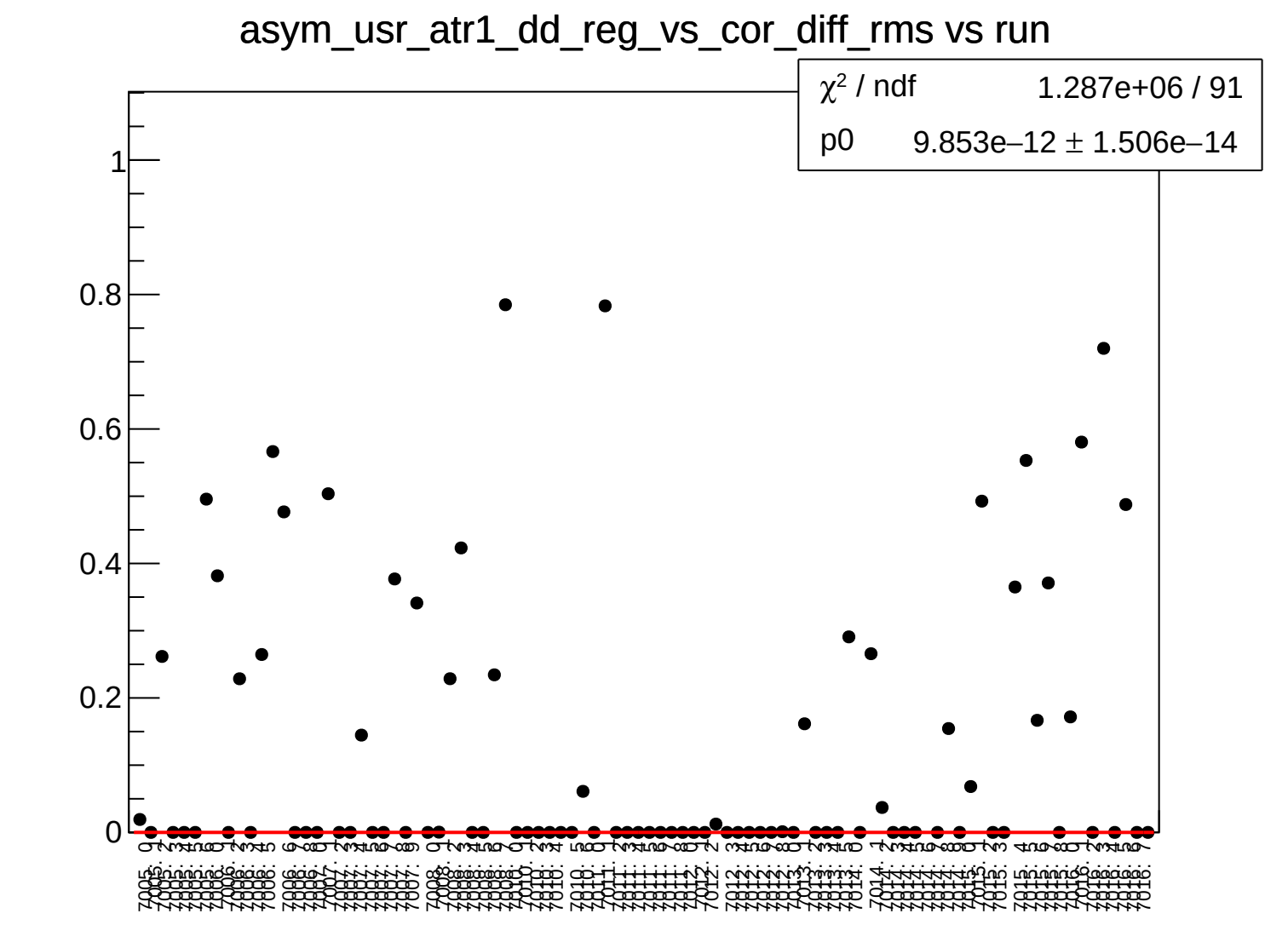

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3733 / 91
p0 649.3 ± 0.4963
760
740
720
700
680
660
640
620
600
580

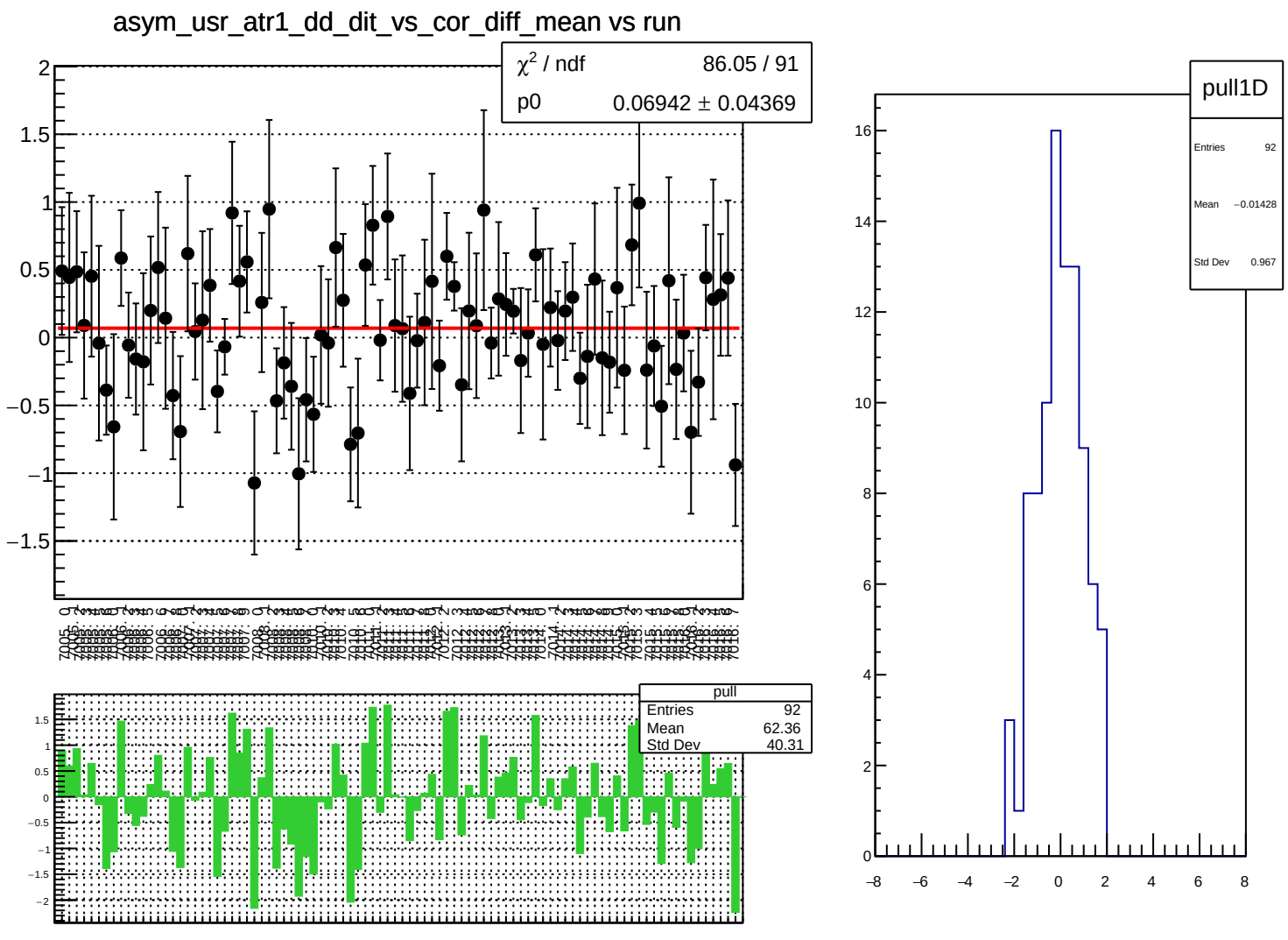

asym_usr_atr1_dd_mean vs run
χ² / ndf 82.6 / 91
p0 896.3 ± 1587
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −23.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

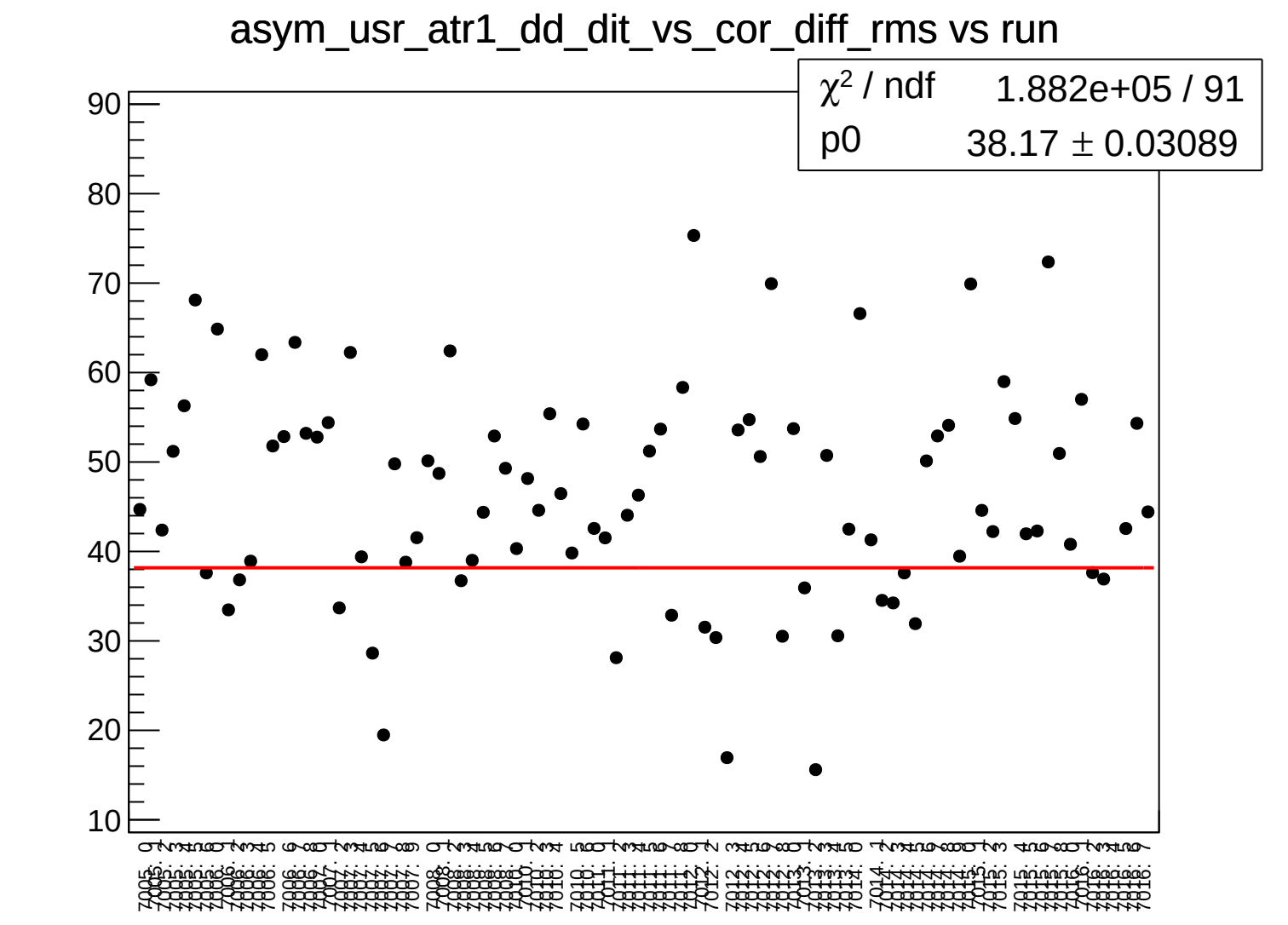

pull1D
Entries 92
Mean 0.01559
Std Dev 0.9474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

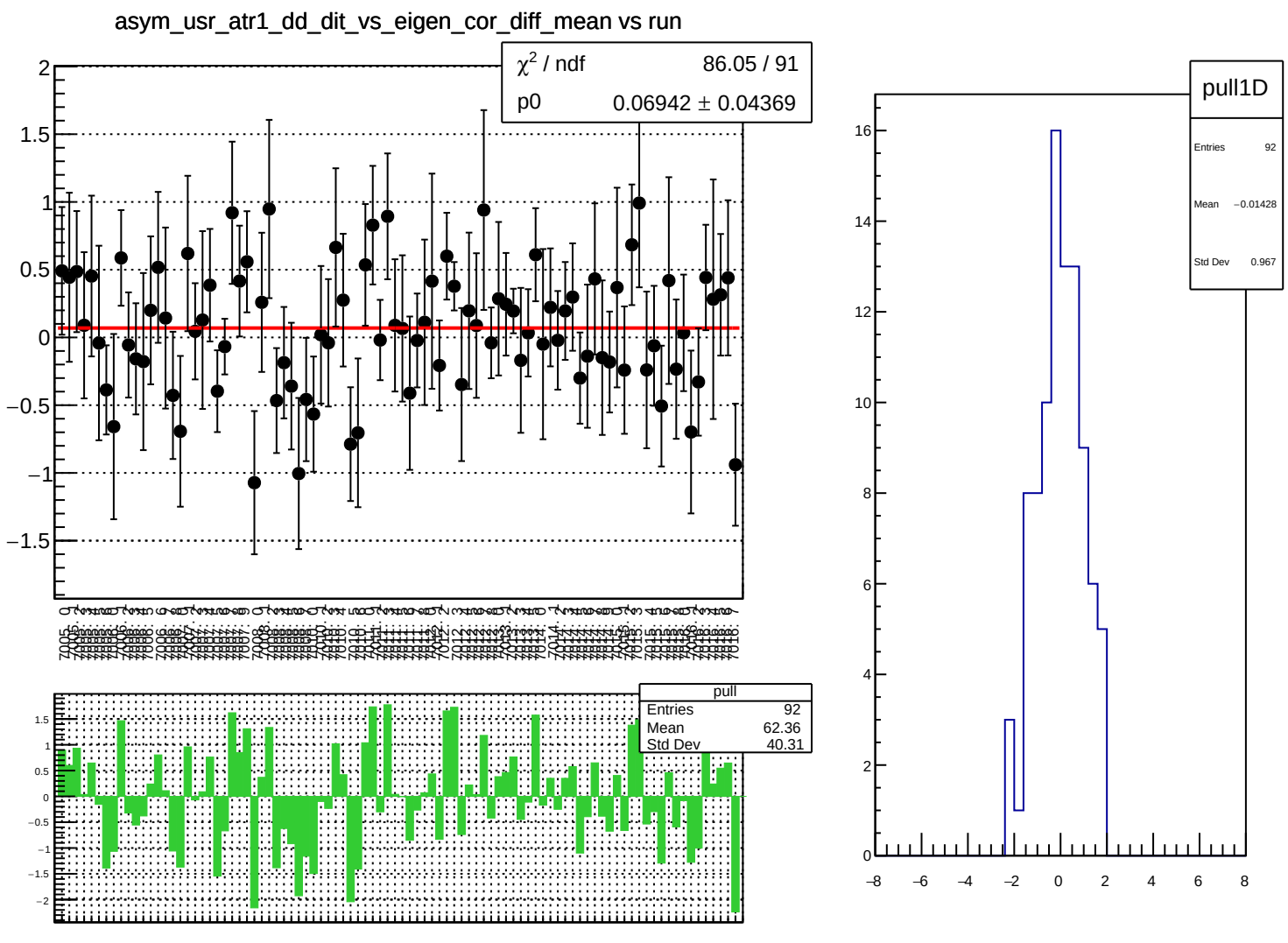

asym_usr_atr1_dd_rms vs run
χ² / ndf 399.3 / 91
p0 1470 ± 1.122
1560
1540
1520
1500
1480
1460
1440
1420

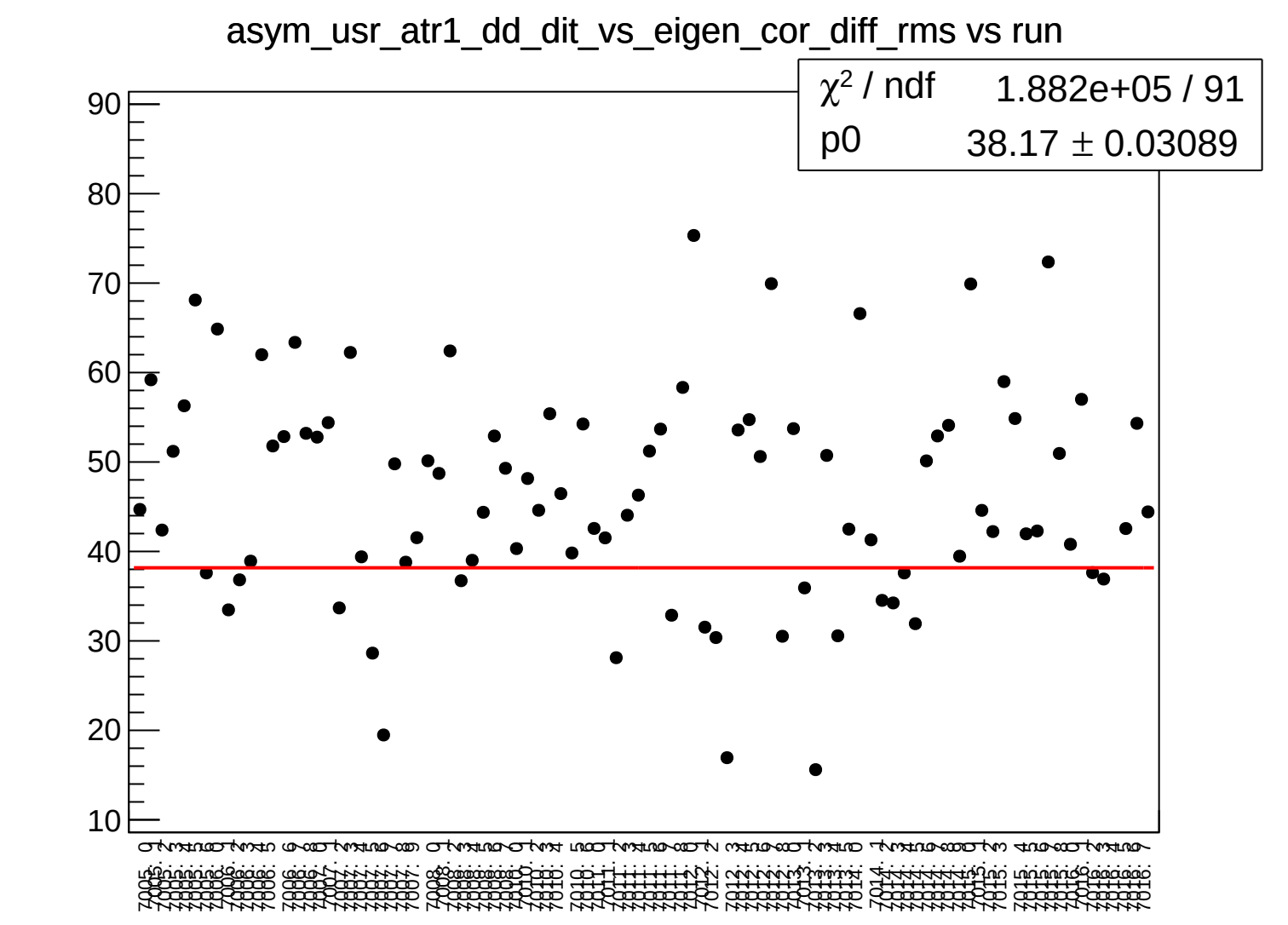

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.6 / 91
p0 −2.666e−14 ± 2.13e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 92
Mean 54.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.1308
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

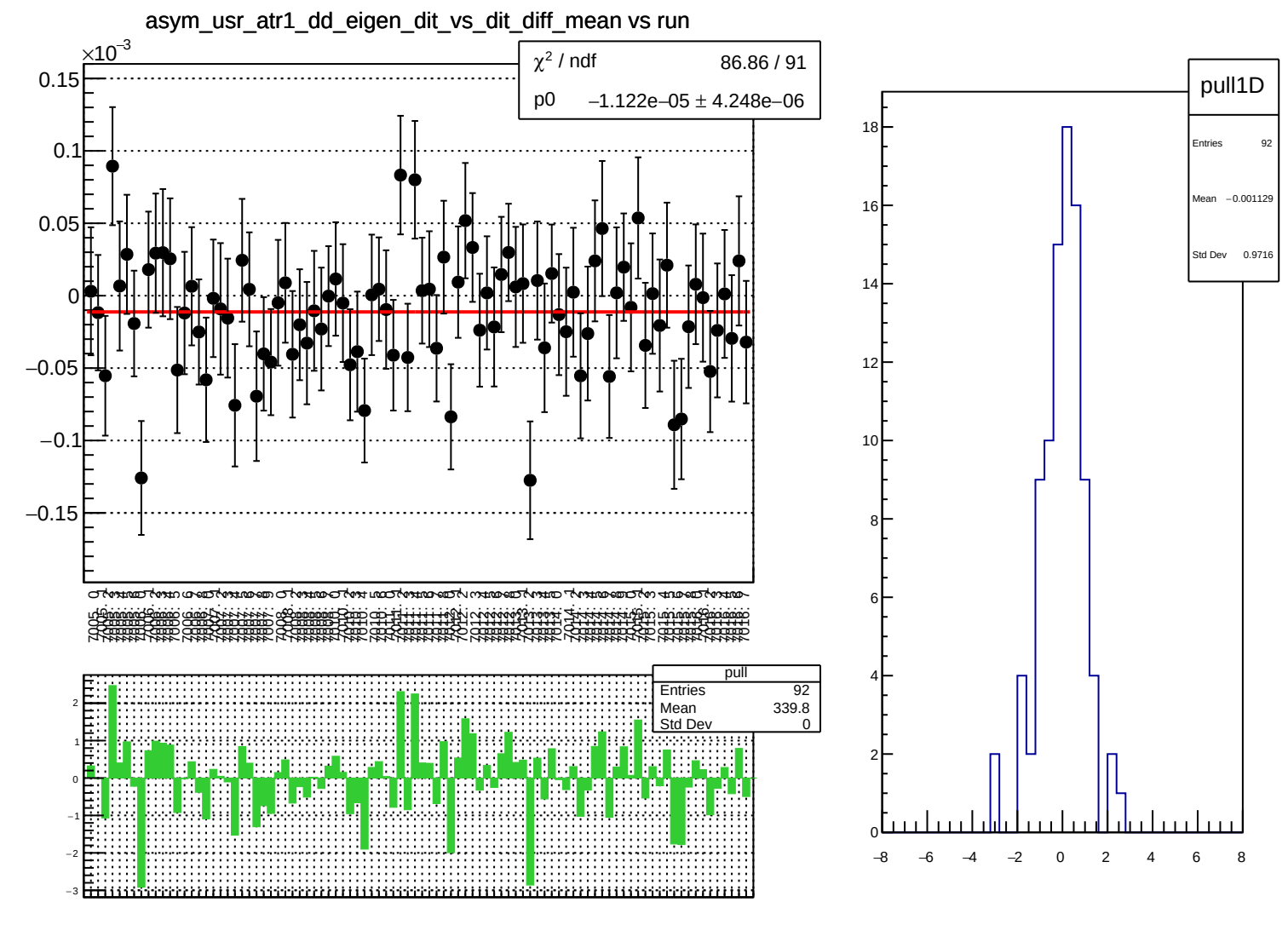

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.287e+06 / 91
p0 9.853e−12 ± 1.506e−14
1
0.8
0.6
0.4
0.2
0

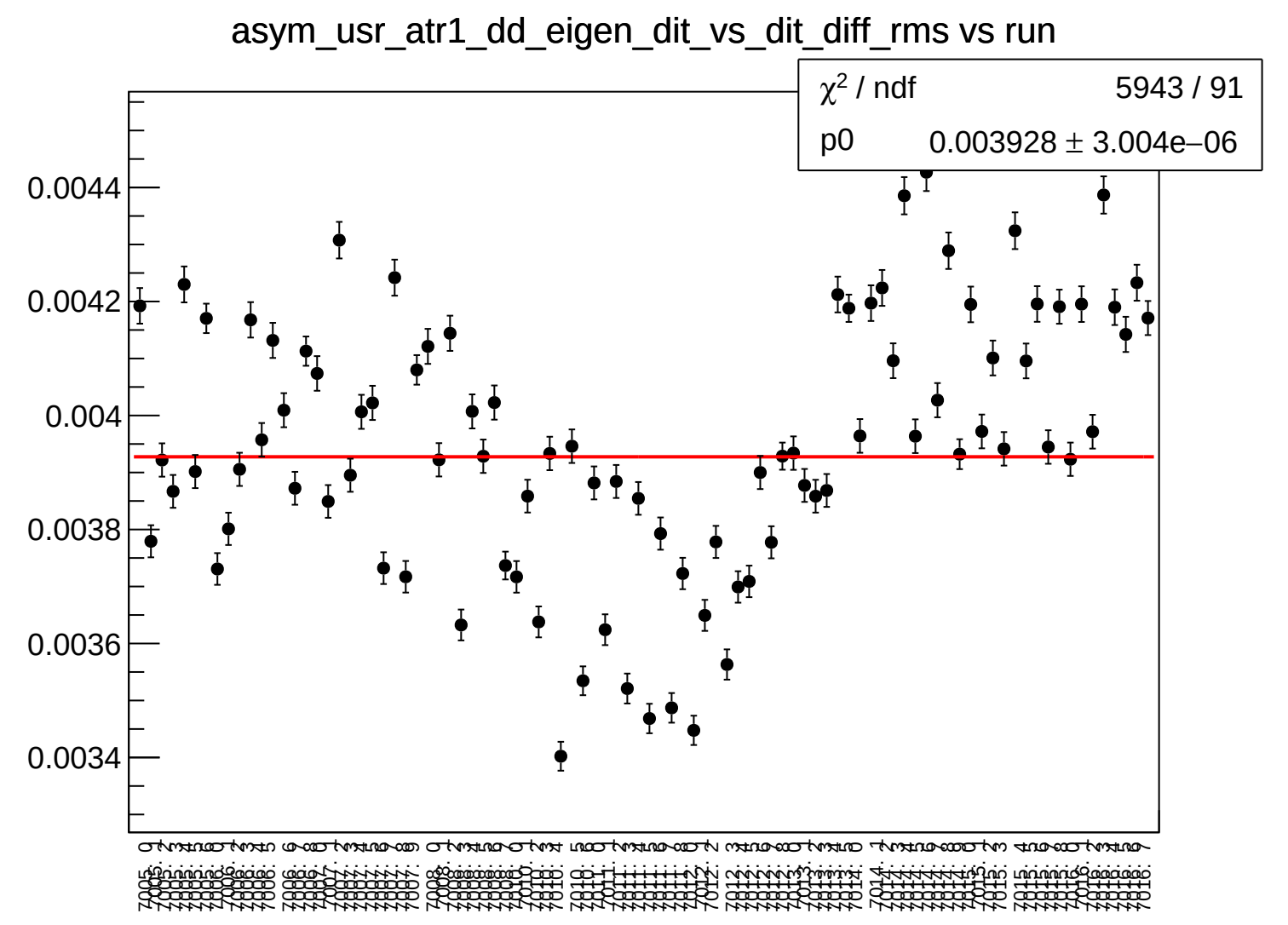

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.05 / 91
p0 0.06942 ± 0.04369
pull
Entries 92
Mean 62.36
Std Dev 40.31
pull1D
Entries 92
Mean −0.01428
Std Dev 0.967

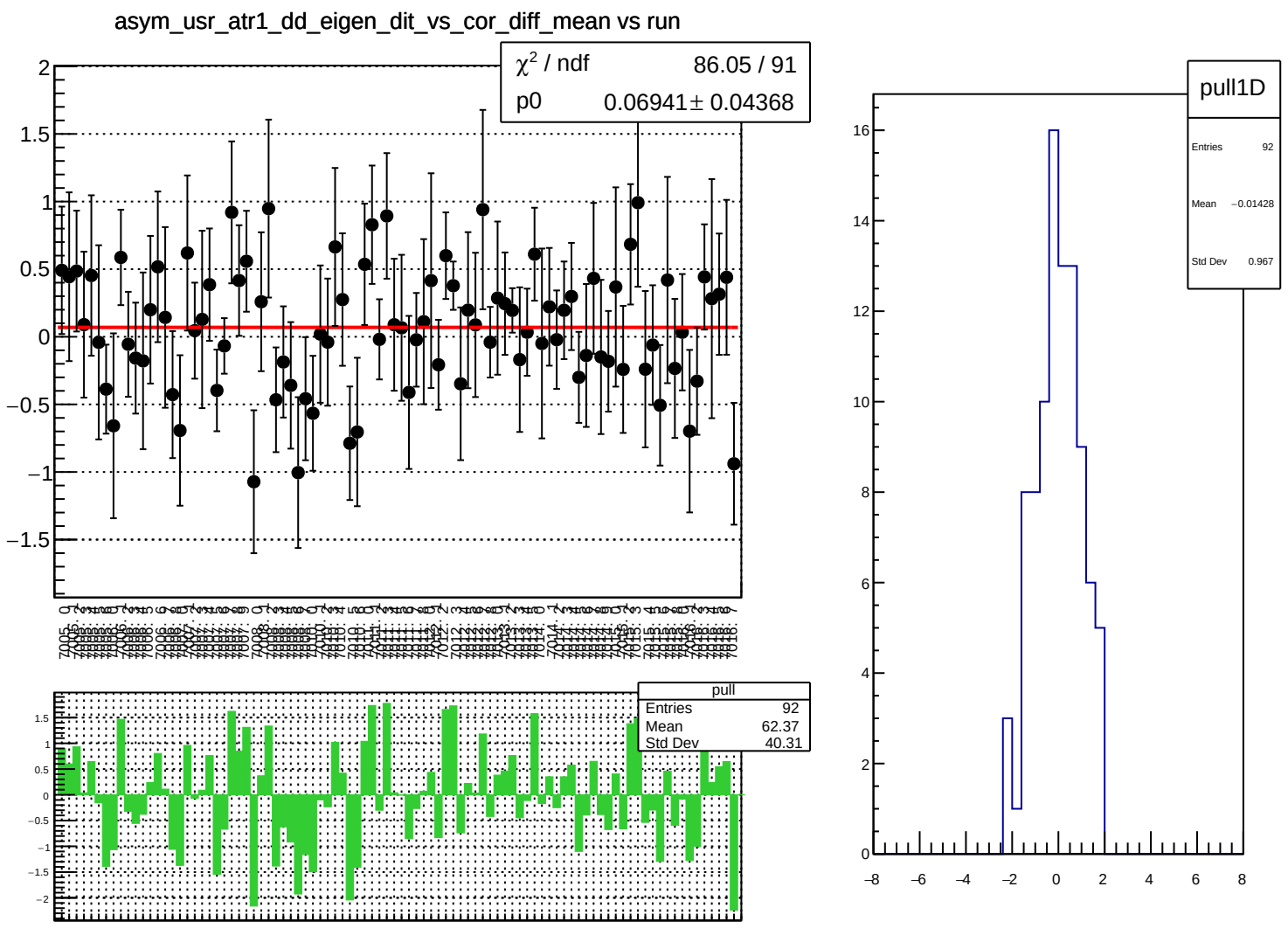

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.882e+05 / 91
p0 38.17 ± 0.03089
90
80
70
60
50
40
30
20
10

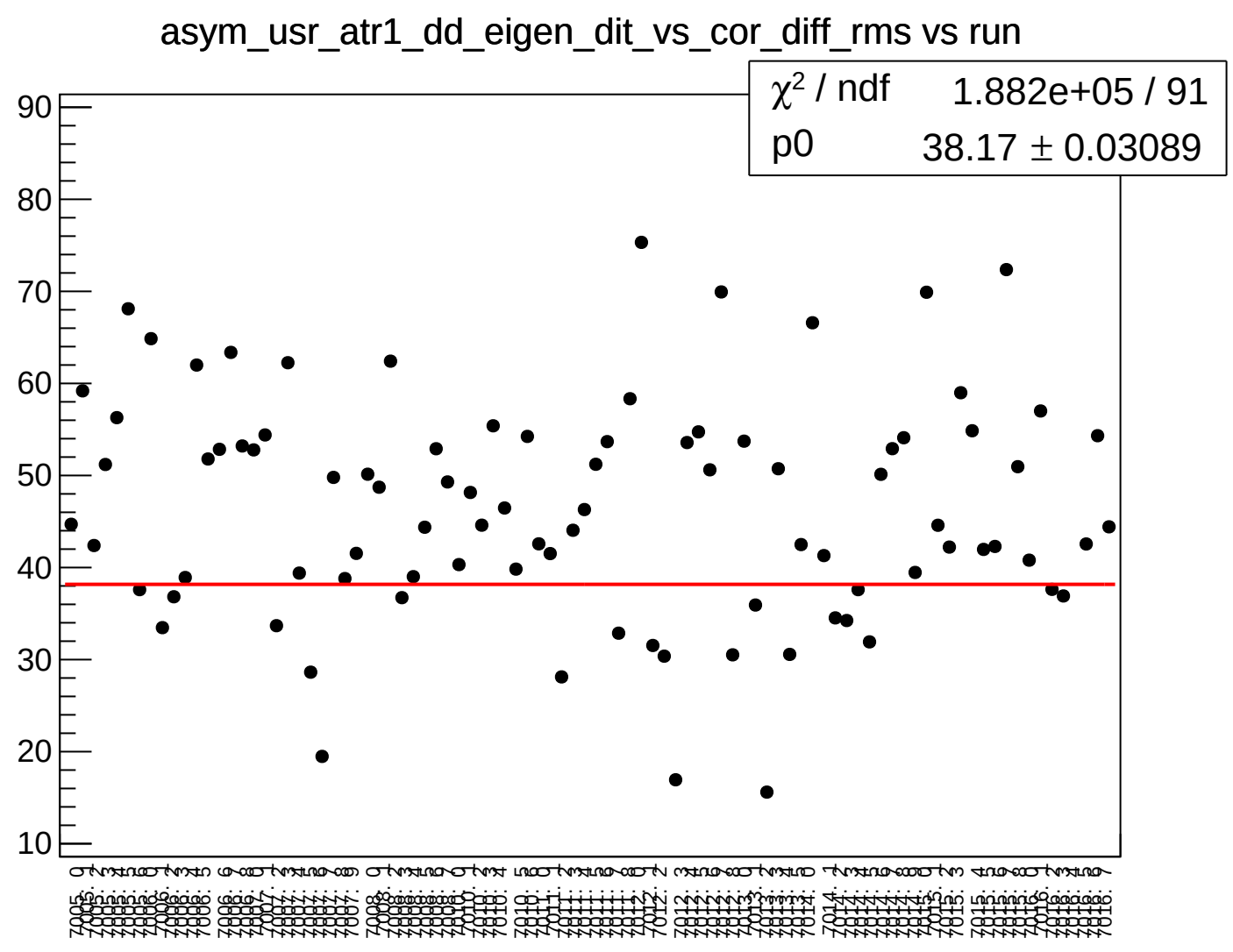

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.05 / 91
p0 0.06942 ± 0.04369
pull
Entries 92
Mean 62.36
Std Dev 40.31
pull1D
Entries 92
Mean −0.01428
Std Dev 0.967

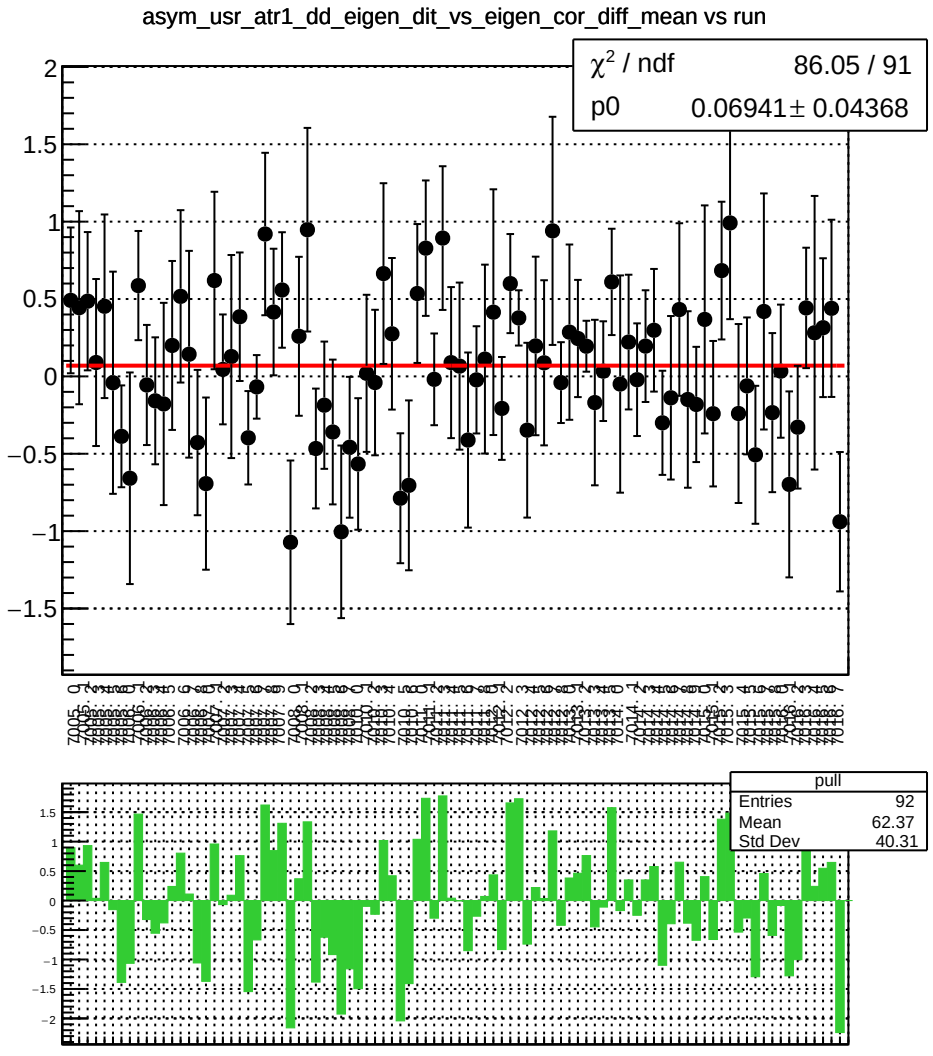

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.882e+05 / 91
p0 38.17 ± 0.03089
90
80
70
60
50
40
30
20
10

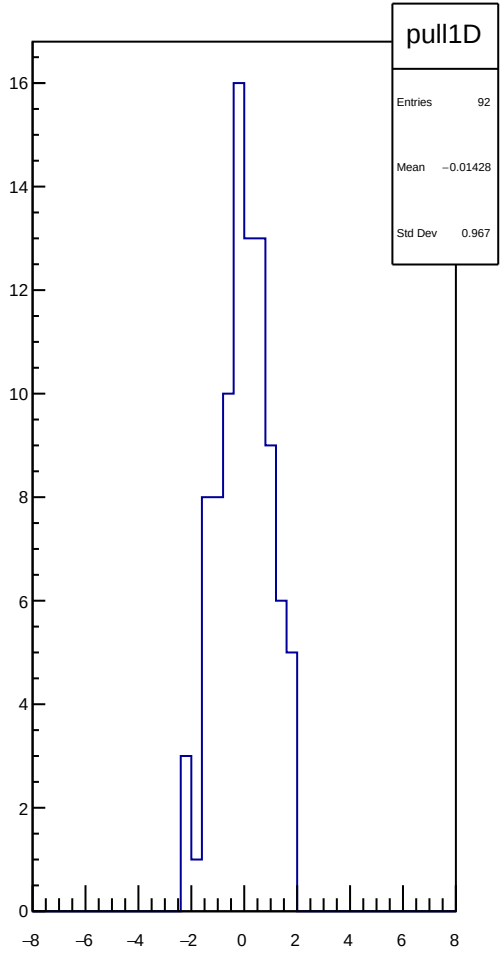

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.86 / 91
p0 −1.122e−05 ± 4.248e−06
pull
Entries 92
Mean 339.8
Std Dev 0
pull1D
Entries 92
Mean −0.001129
Std Dev 0.9716

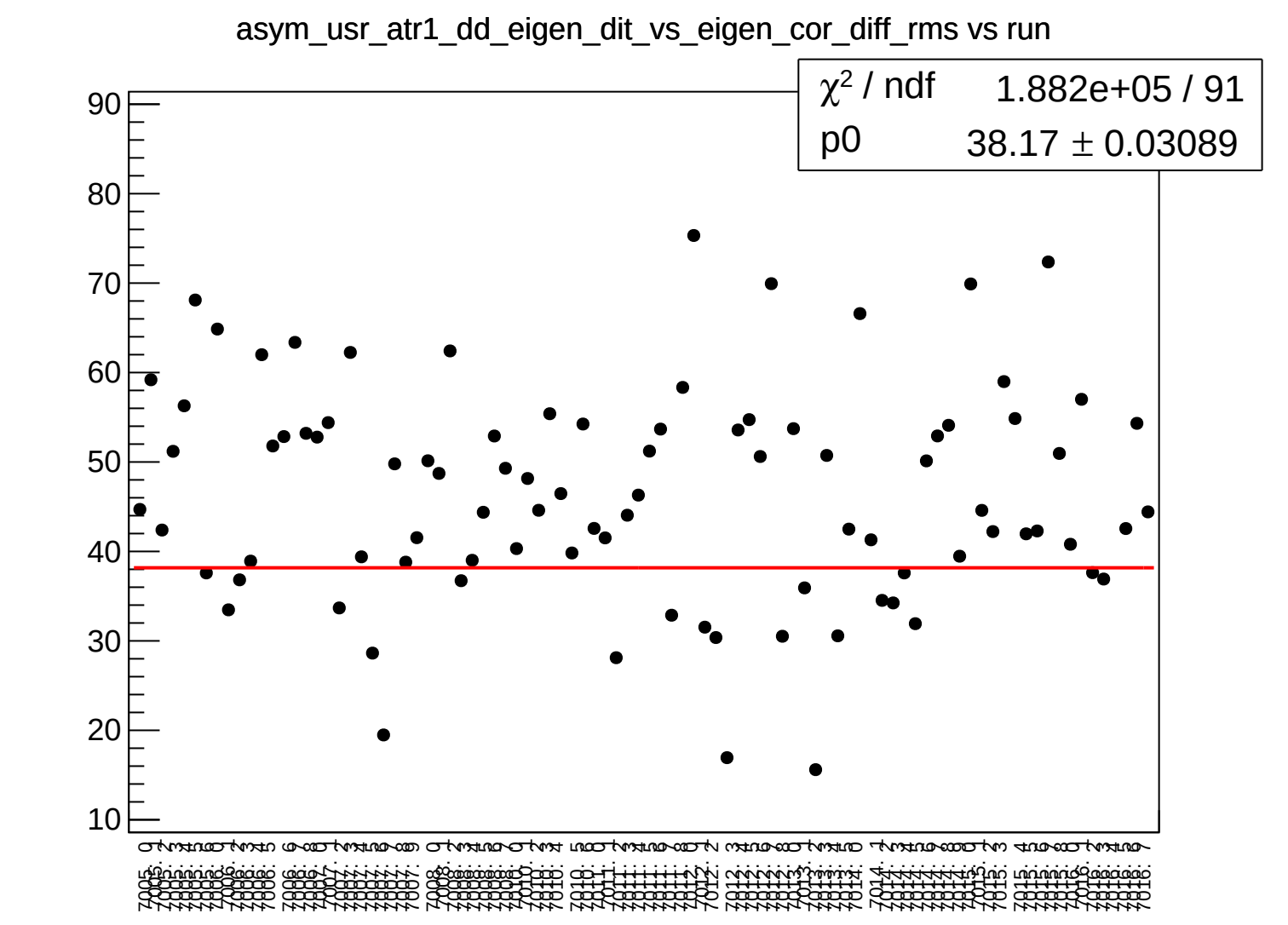

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5943 / 91
p0 0.003928 ± 3.004e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

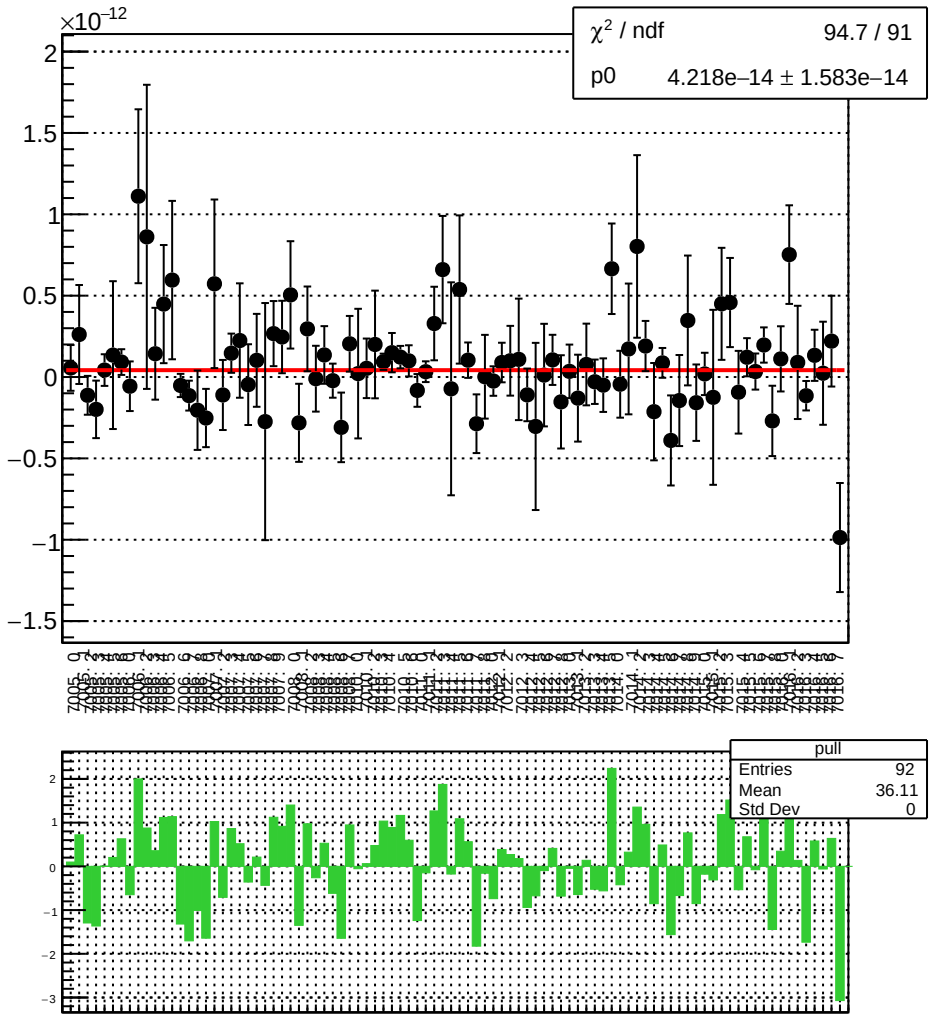

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.05 / 91
p0 0.06941 ± 0.04368
pull
Entries 92
Mean 62.37
Std Dev 40.31
pull1D
Entries 92
Mean −0.01428
Std Dev 0.967

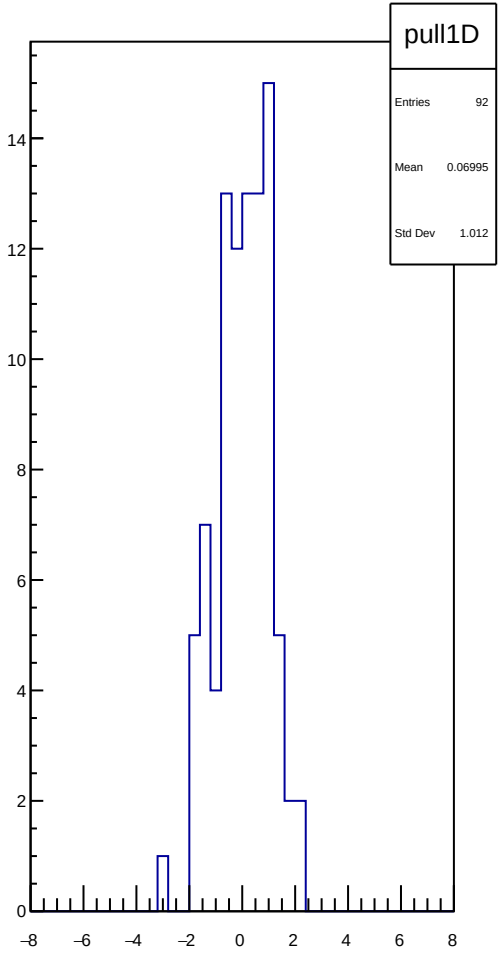

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.882e+05 / 91
p0 38.17 ± 0.03089
90
80
70
60
50
40
30
20
10

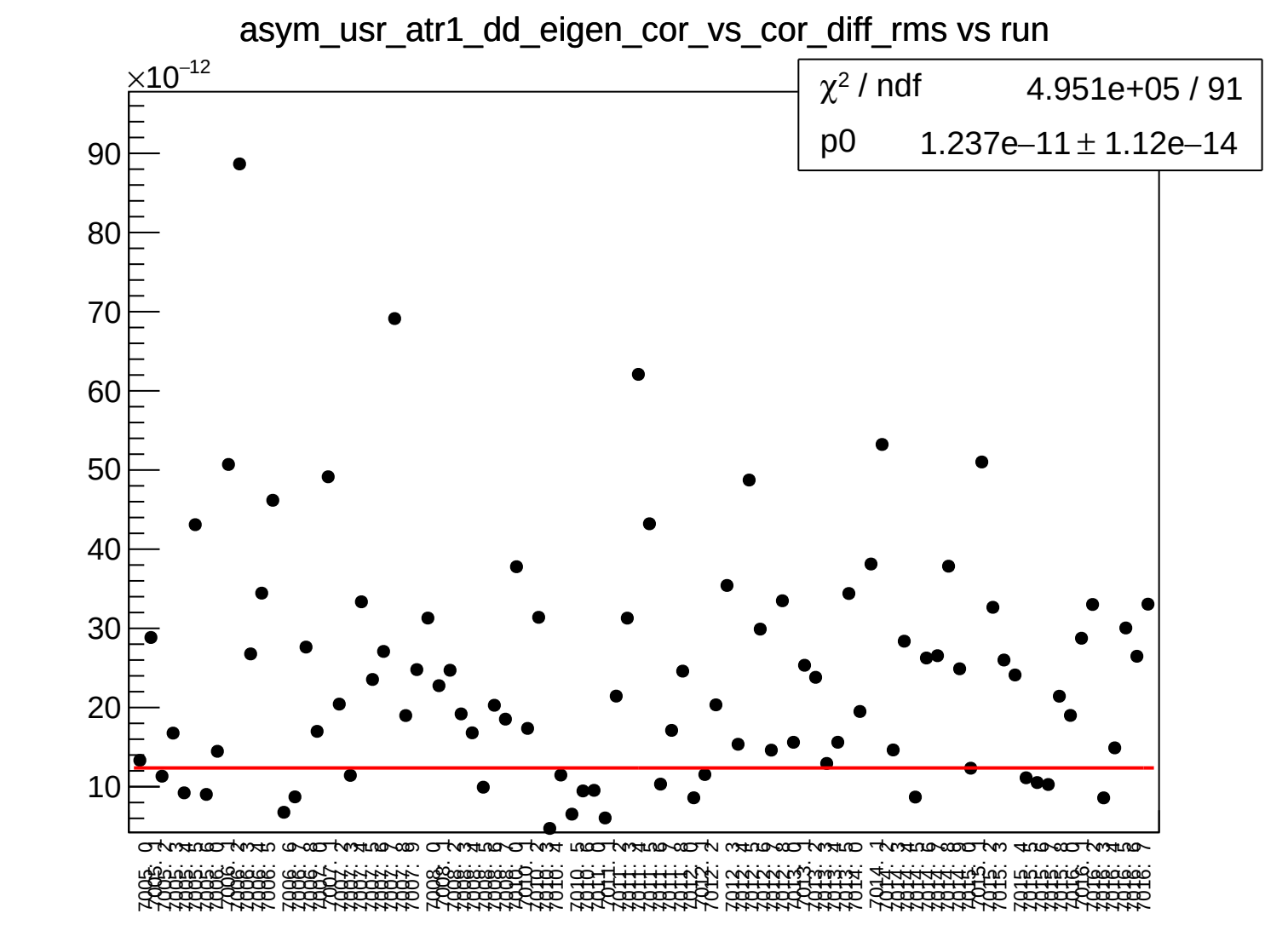

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.05 / 91
p0 0.06941 ± 0.04368
pull
Entries 92
Mean 62.37
Std Dev 40.31

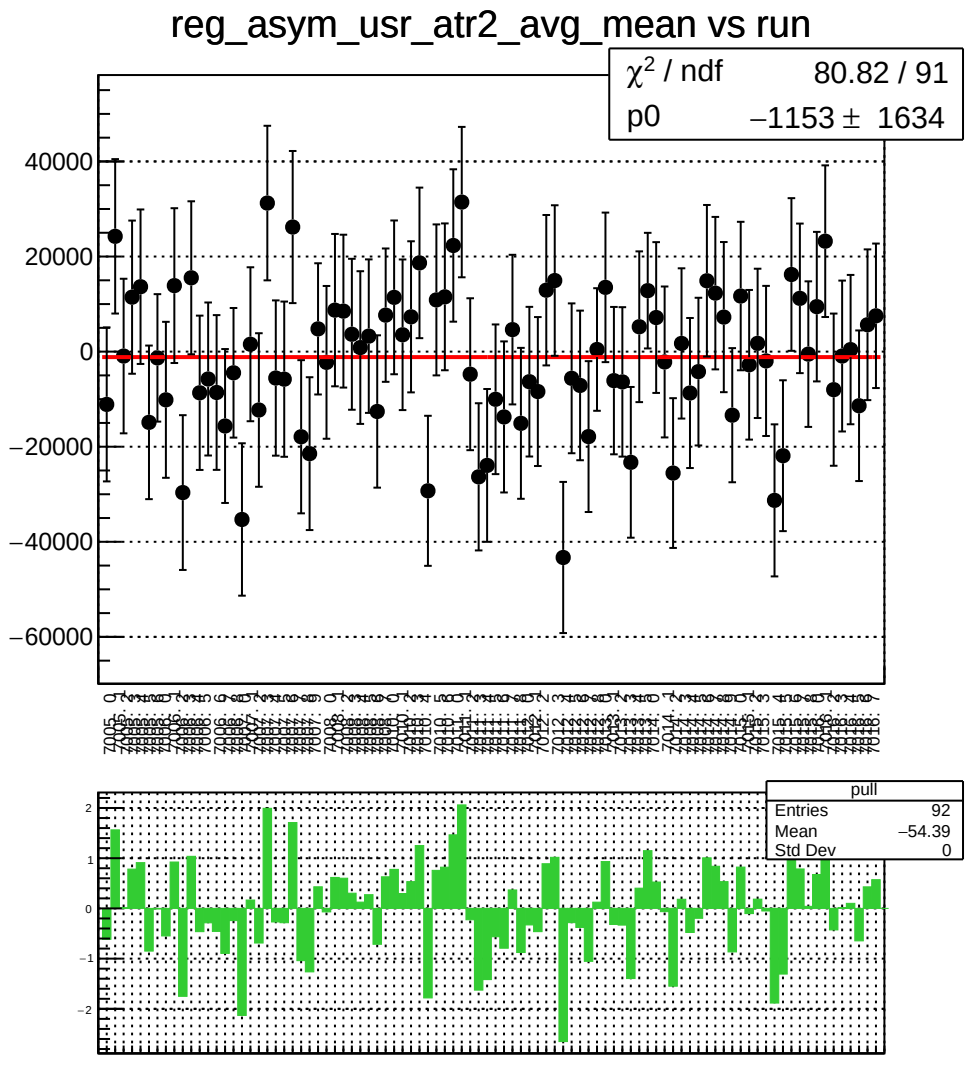

pull1D
Entries 92
Mean −0.01428
Std Dev 0.967

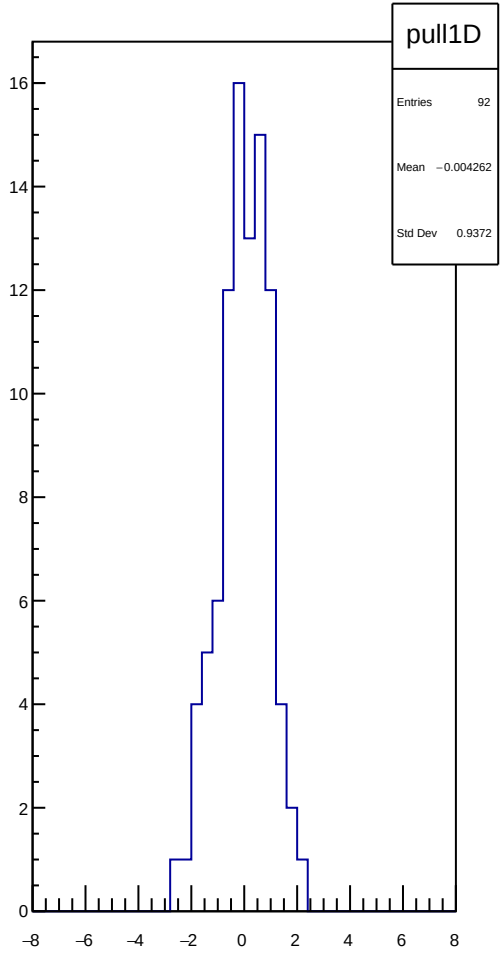

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.882e+05 / 91
p0 38.17 ± 0.03089
90
80
70
60
50
40
30
20
10

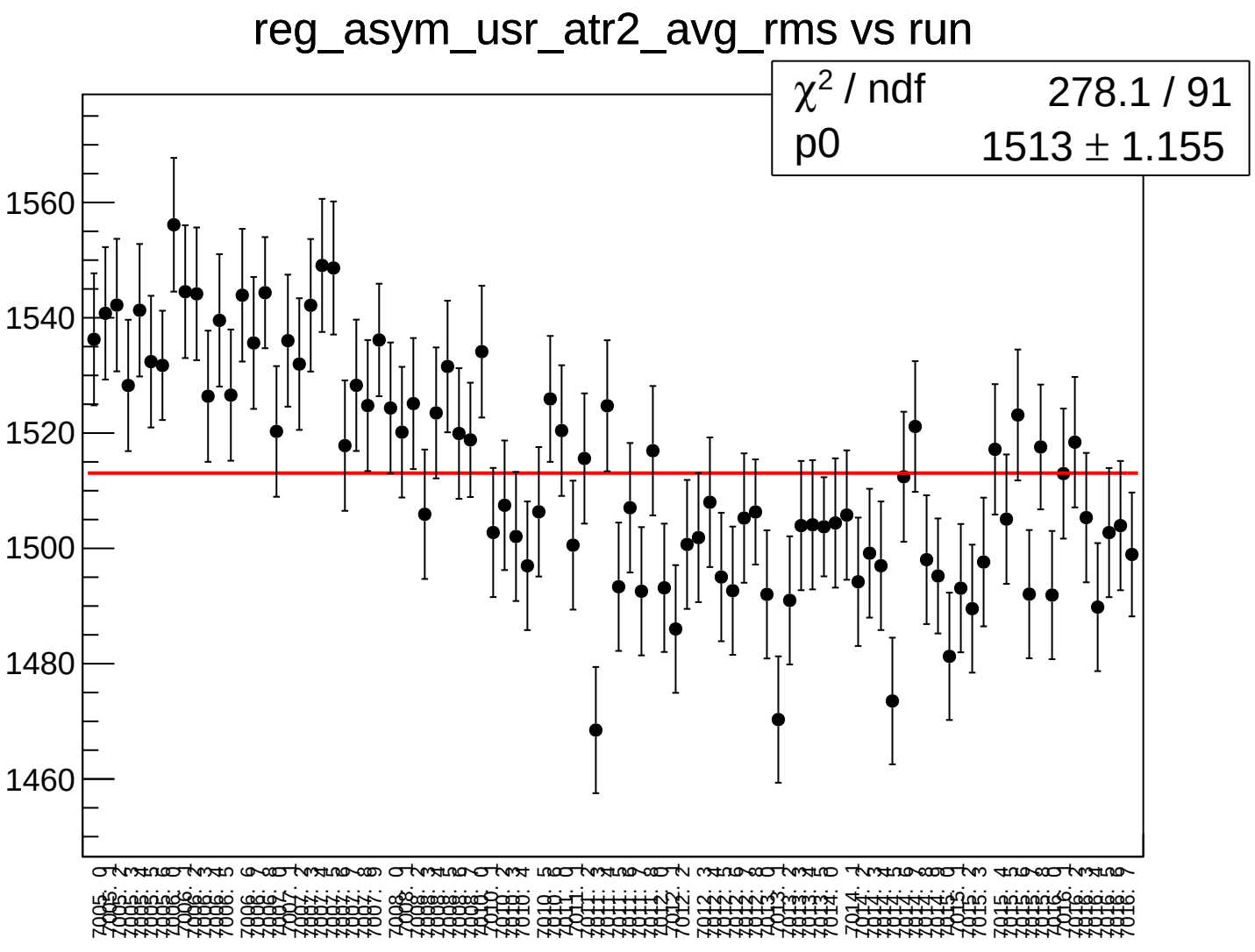

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.7 / 91
p0 4.218e−14 ± 1.583e−14
pull
Entries 92
Mean 36.11
Std Dev 0

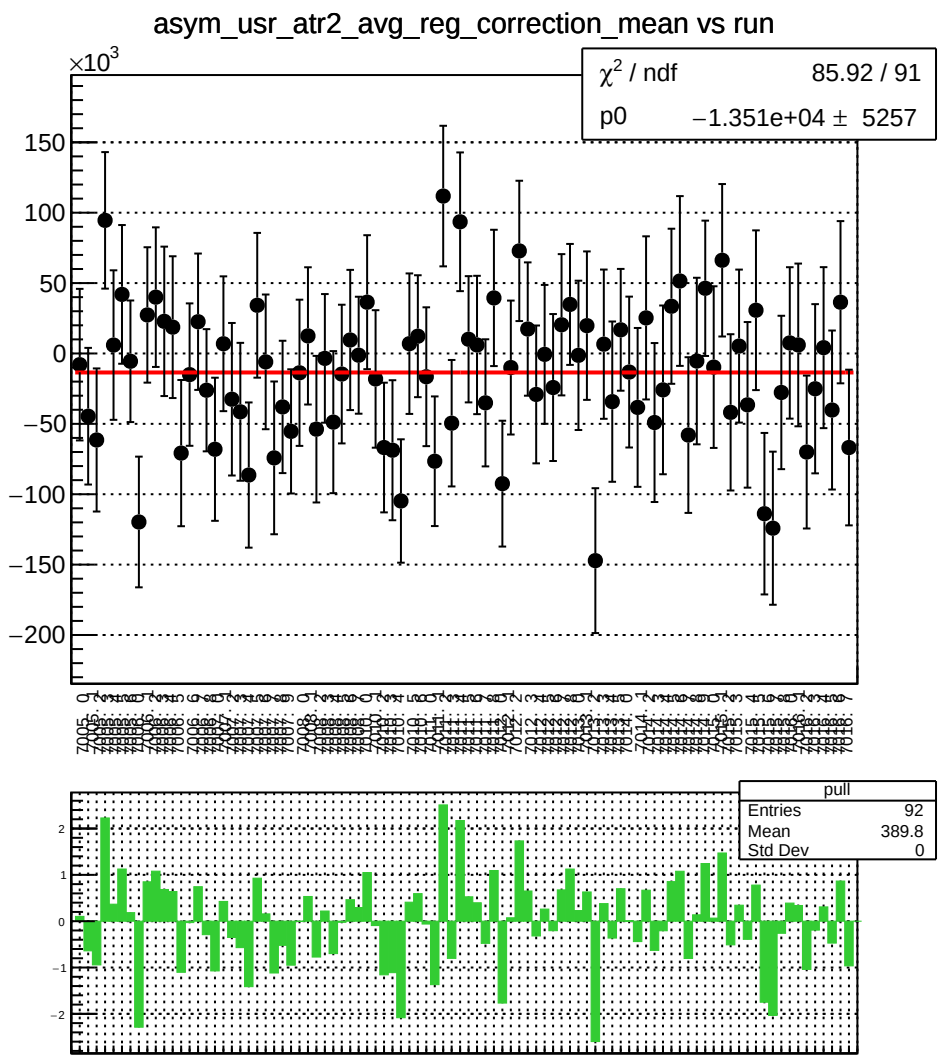

pull1D
Entries 92
Mean 0.06995
Std Dev 1.012

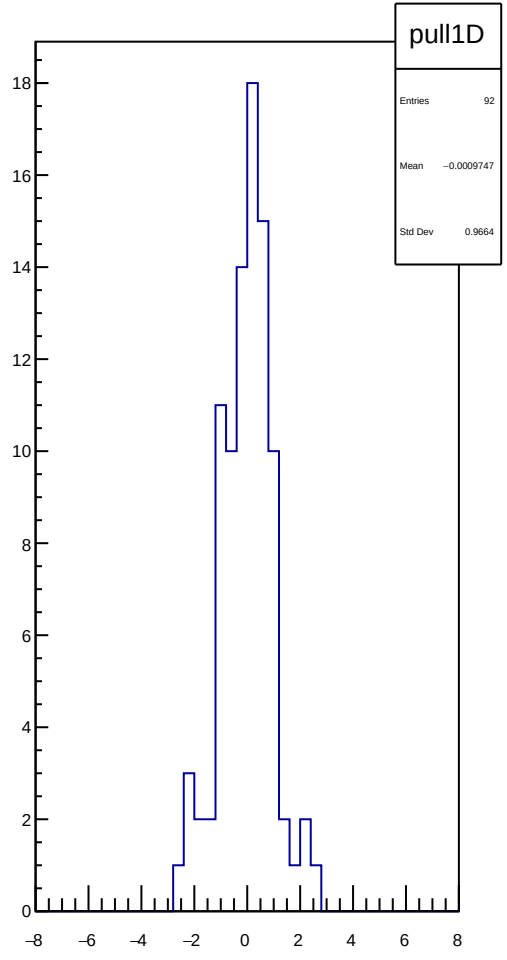

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.951e+05 / 91
p0 1.237e−11 ± 1.12e−14
90
80
70
60
50
40
30
20
10

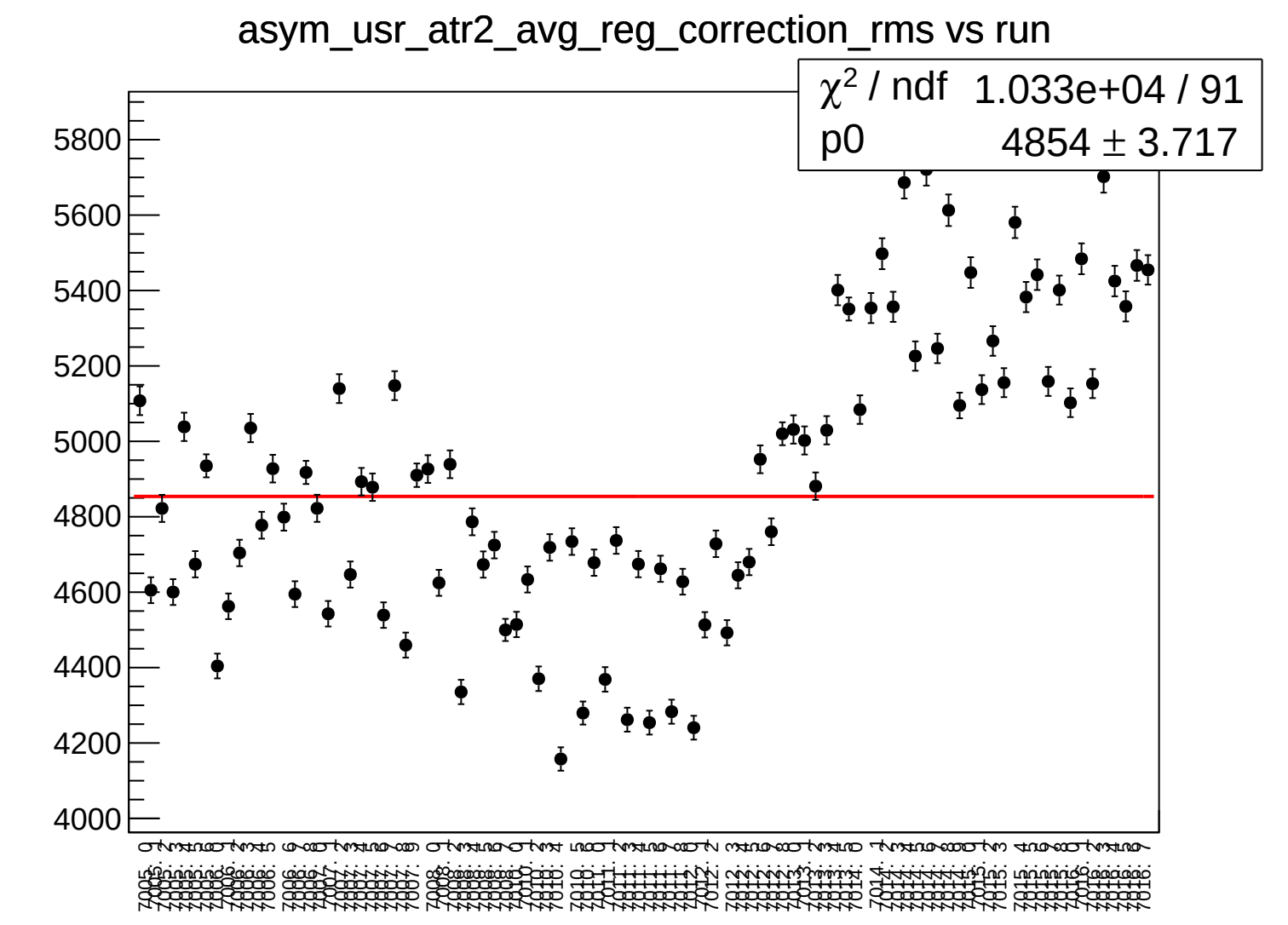

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.82 / 91
p0 −1153 ± 1634
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −54.39
Std Dev 0
2
1
0
−1
−2

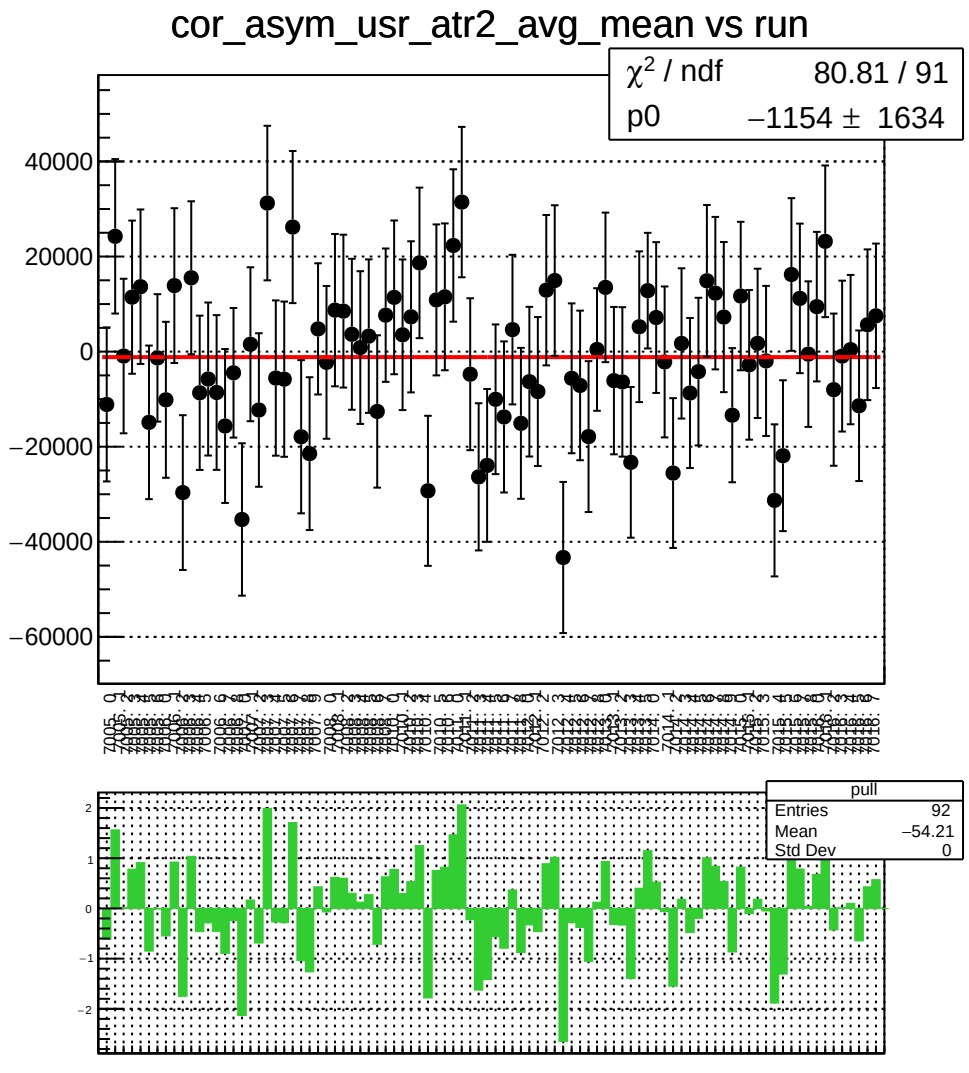

pull1D
Entries 92
Mean −0.004262
Std Dev 0.9372
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

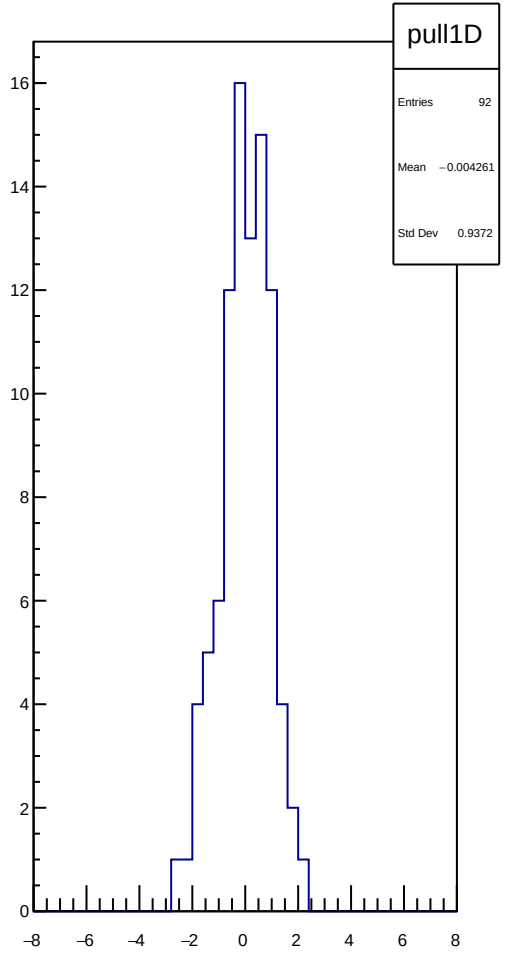

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 278.1 / 91
p0 1513 ± 1.155
1560
1540
1520
1500
1480
1460

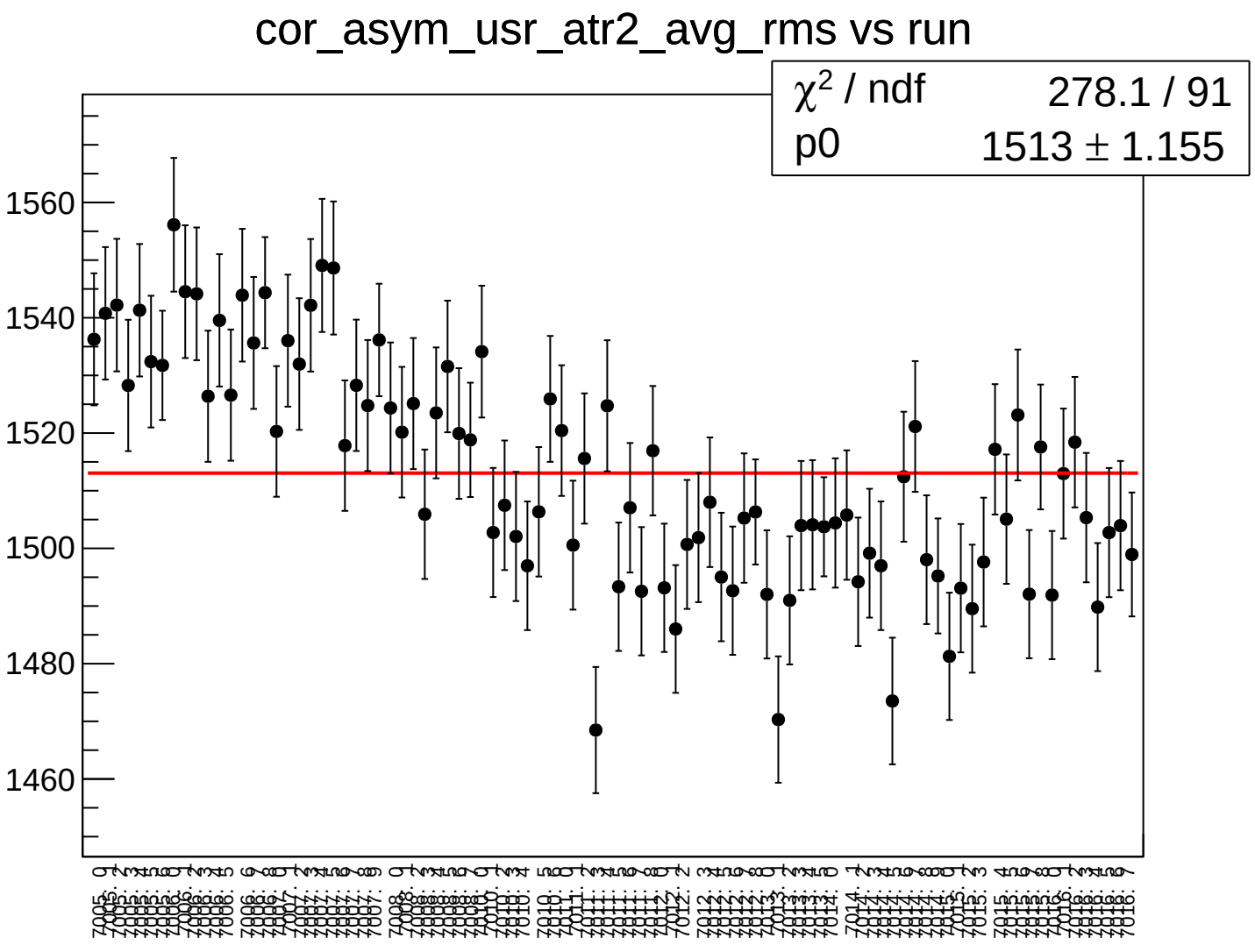

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.92 / 91
p0 −1.351e+04 ± 5257
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 389.8
Std Dev 0
2
1
0
−1
−2

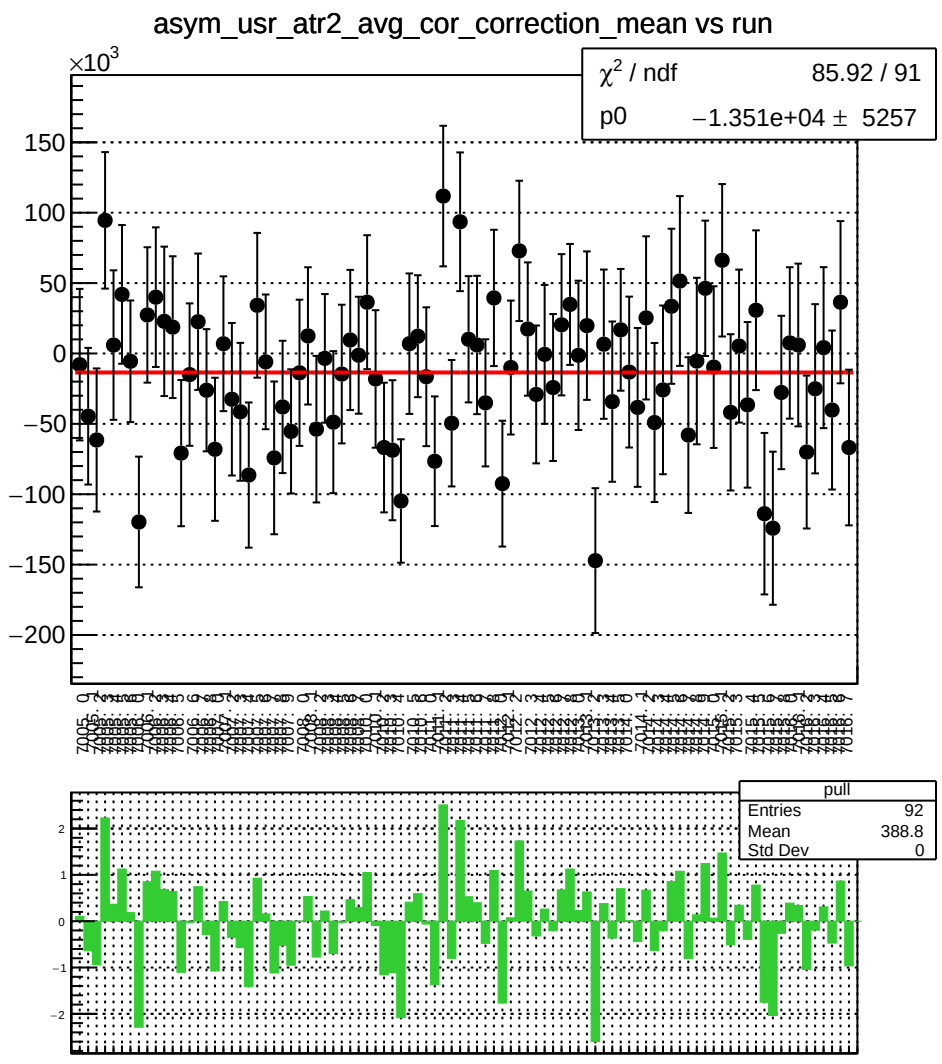

pull1D
Entries 92
Mean −0.0009747
Std Dev 0.9664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

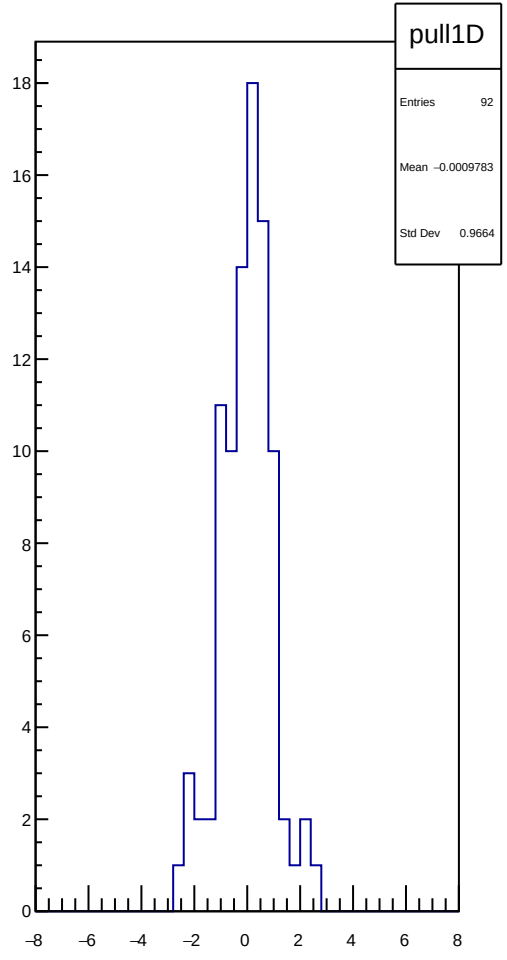

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.033e+04 / 91
p0 4854 ± 3.717
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

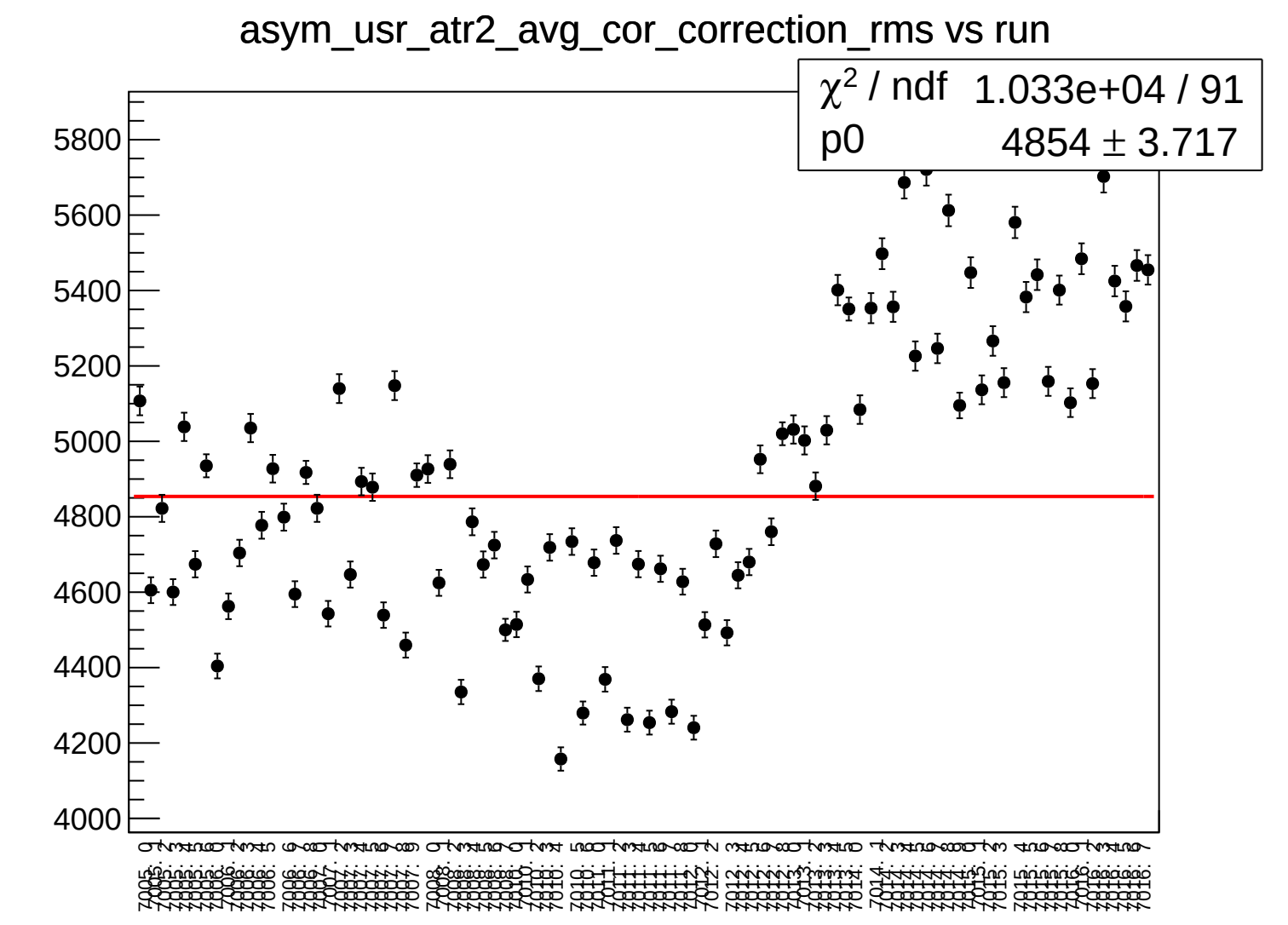

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.81 / 91
p0 −1154 ± 1634
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −54.21
Std Dev 0
2
1
0
−1
−2

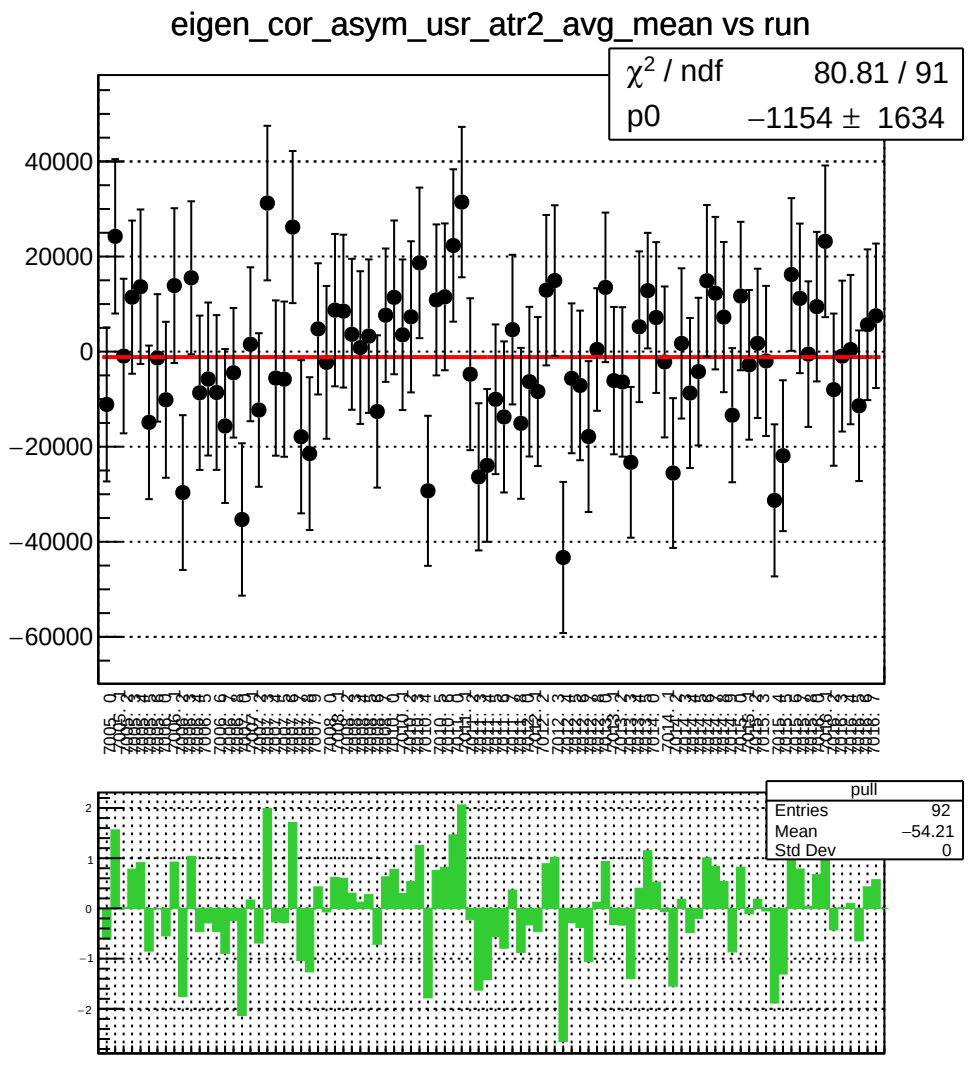

pull1D
Entries 92
Mean −0.004261
Std Dev 0.9372
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

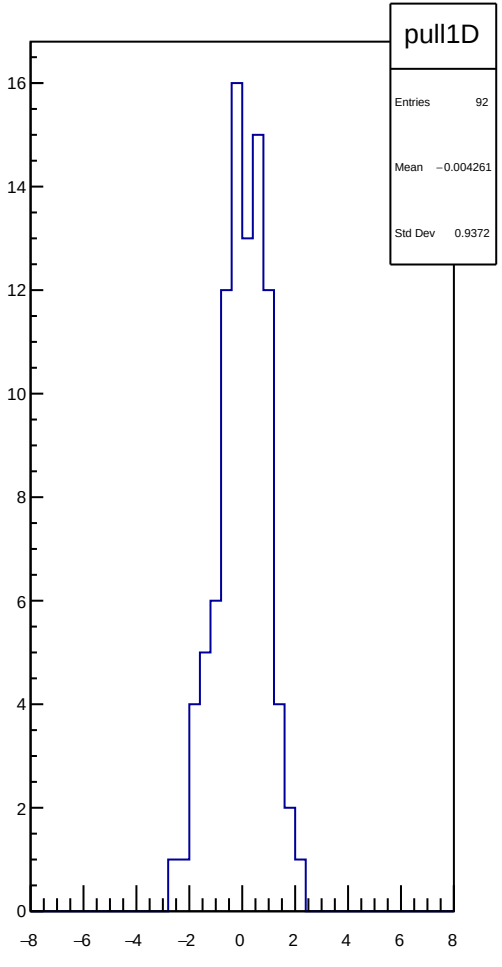

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 278.1 / 91
p0 1513 ± 1.155
1560
1540
1520
1500
1480
1460

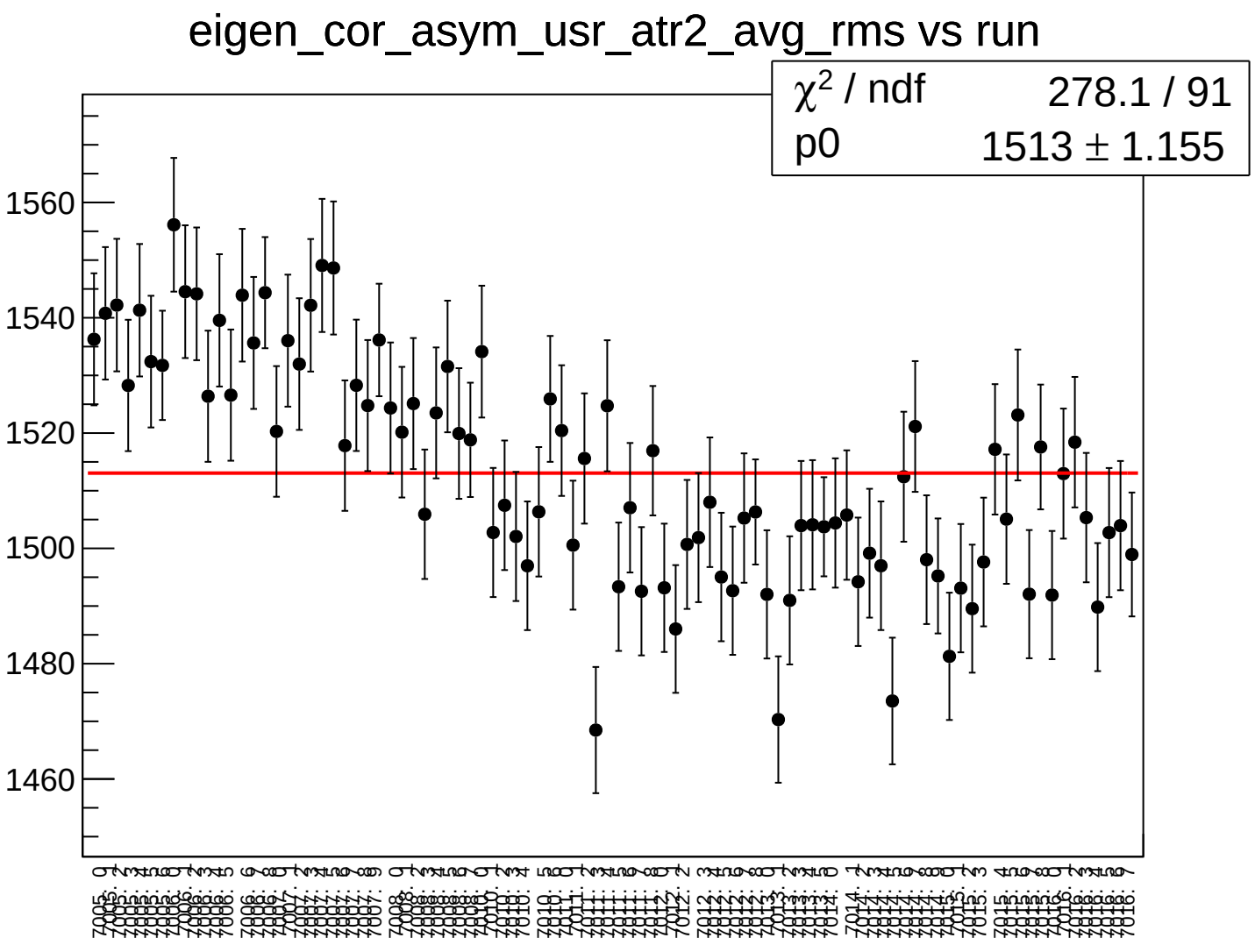

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.92 / 91
p0 −1.351e+04 ± 5257
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 388.8
Std Dev 0
2
1
0
−1
−2

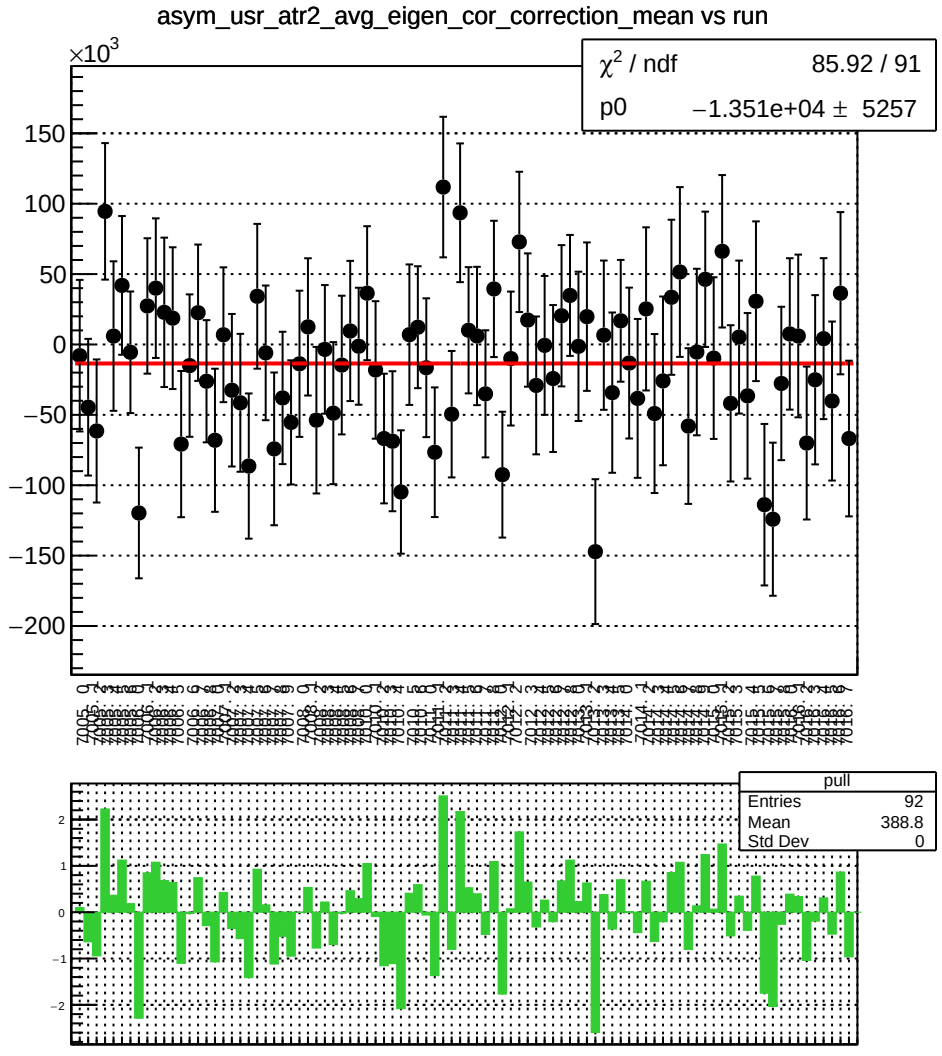

pull1D
Entries 92
Mean −0.0009783
Std Dev 0.9664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

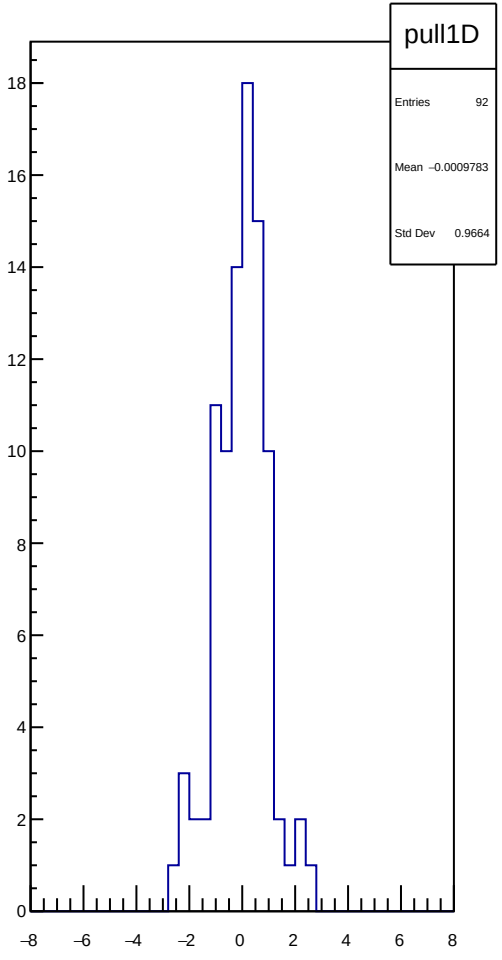

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1.033e+04 / 91
p0 4854 ± 3.717
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

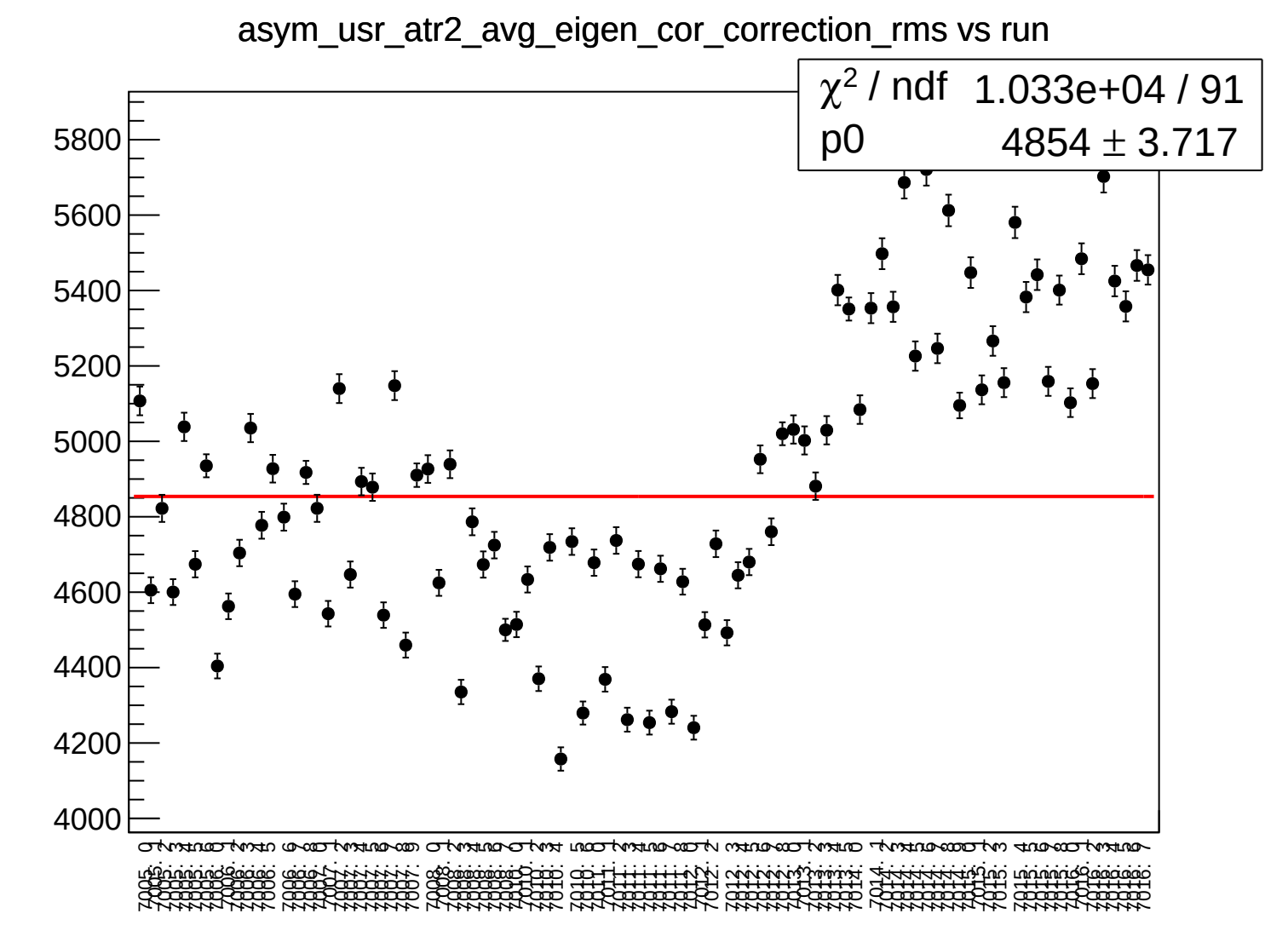

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.81 / 91
p0 −1154 ± 1634
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −54.21
Std Dev 0
2
1
0
−1
−2

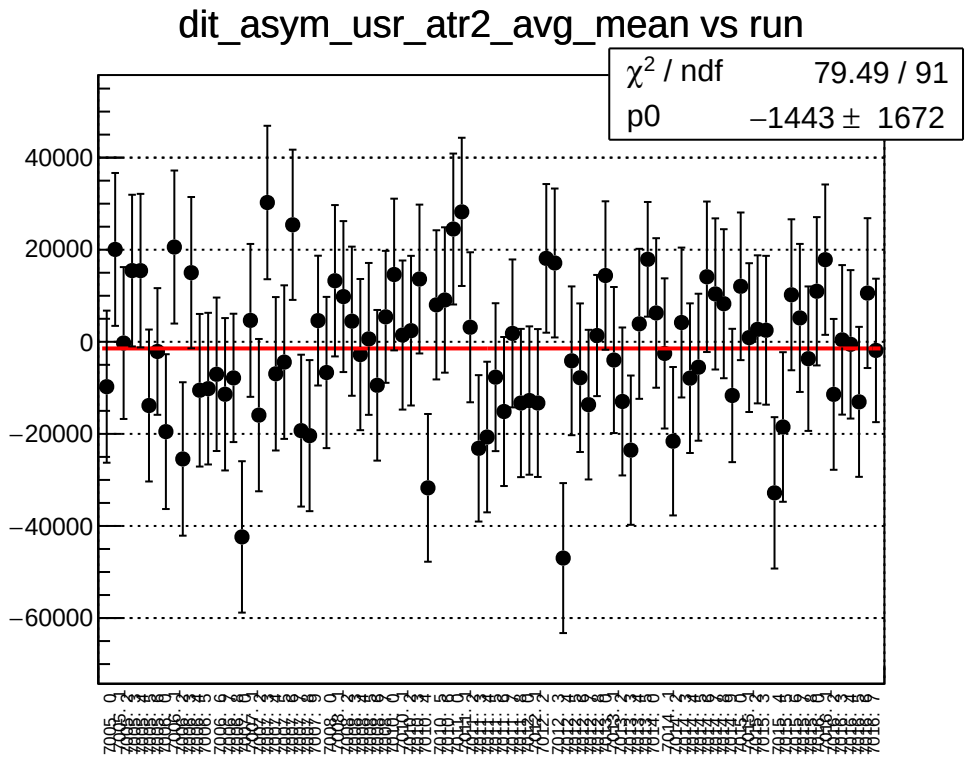

pull1D
Entries 92
Mean −0.004261
Std Dev 0.9372
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

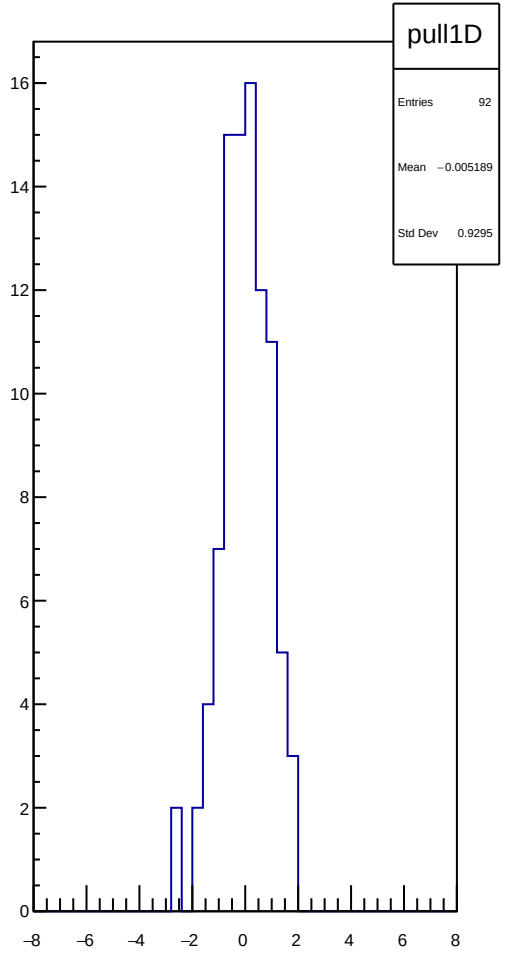

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 278.1 / 91
p0 1513 ± 1.155
1560
1540
1520
1500
1480
1460

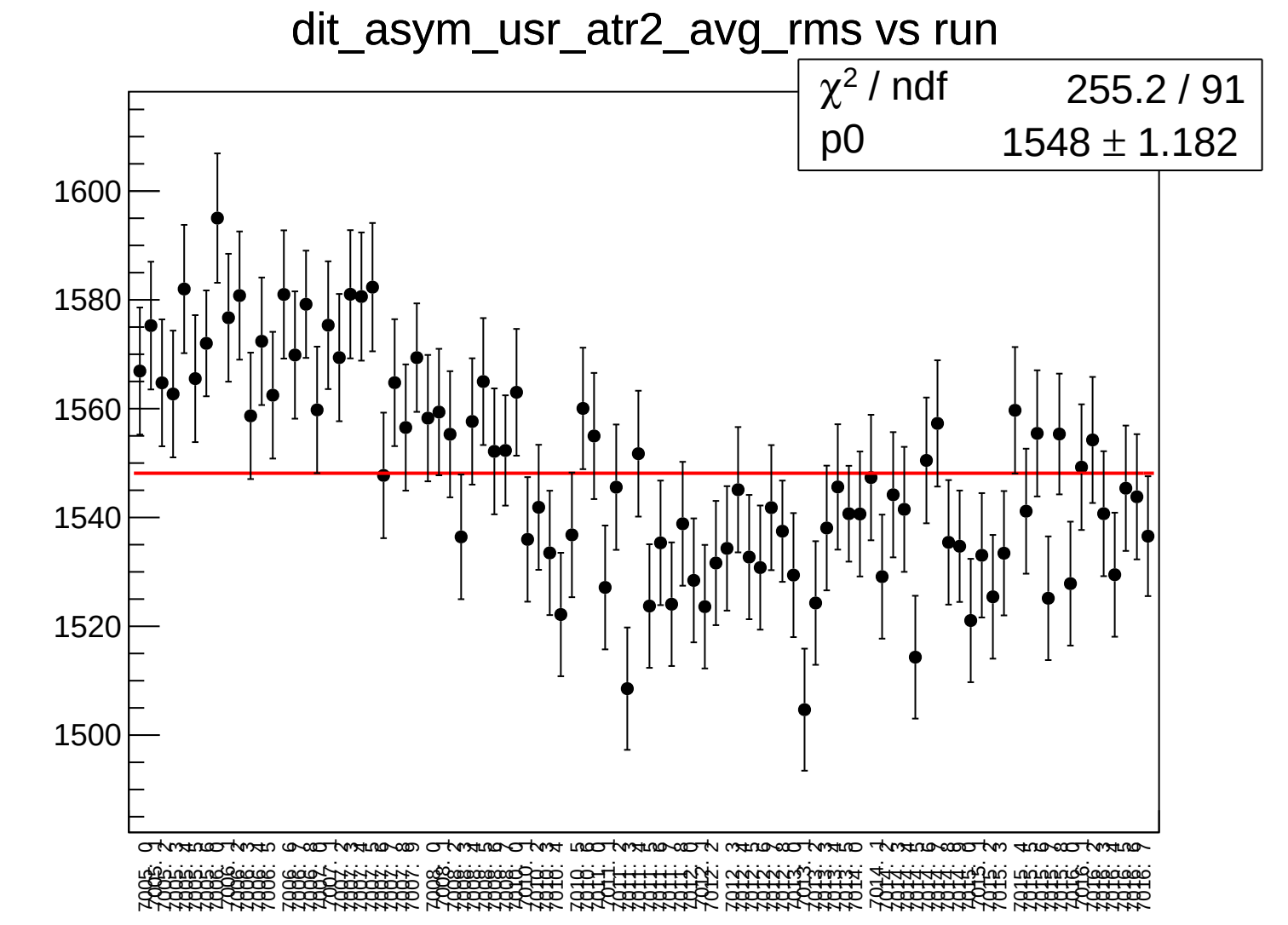

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.92 / 91
p0 −1.351e+04 ± 5257
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean 388.8
Std Dev 0
2
1
0
−1
−2

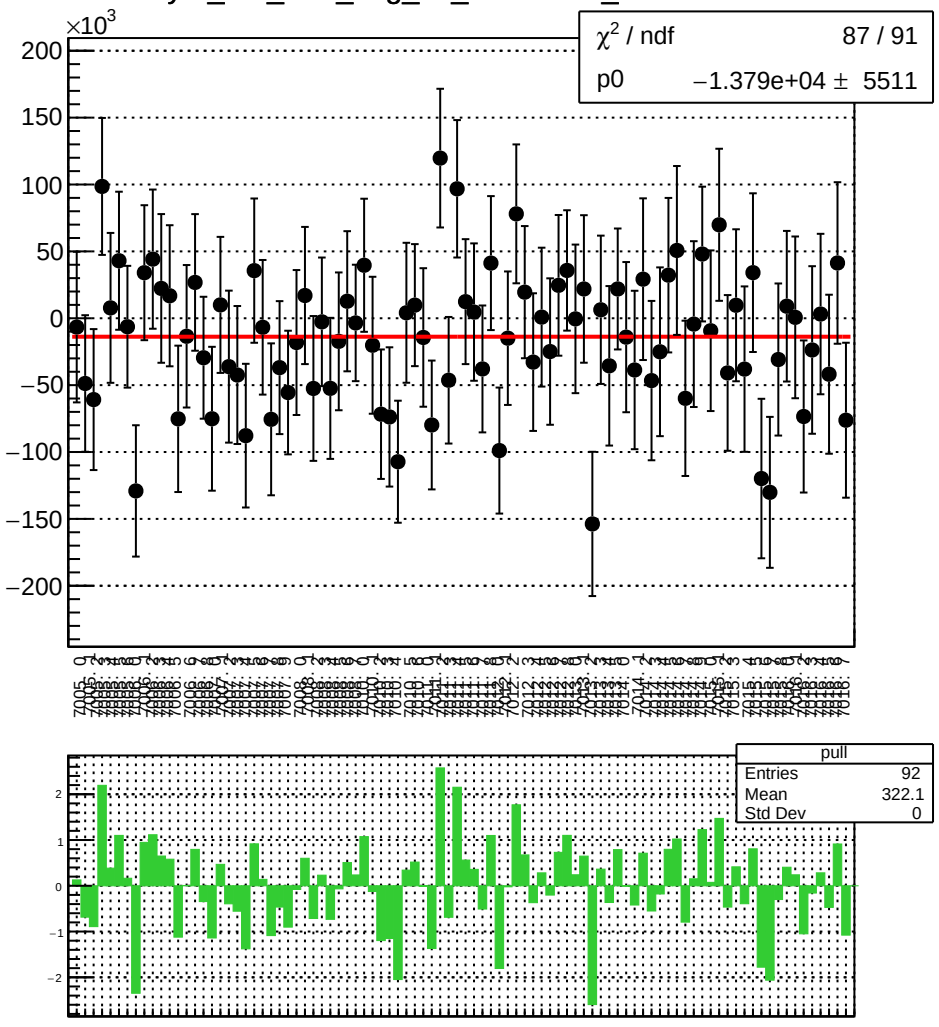

pull1D
Entries 92
Mean −0.0009783
Std Dev 0.9664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

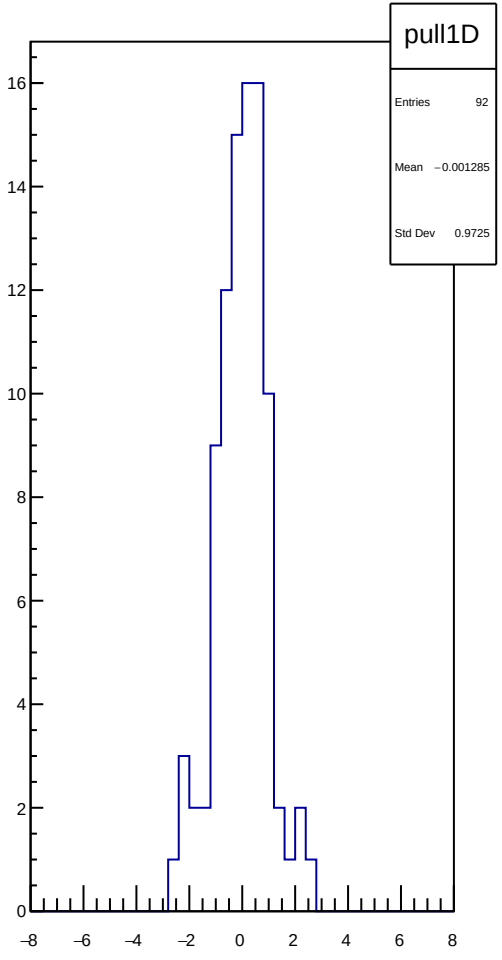

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.033e+04 / 91
p0 4854 ± 3.717
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

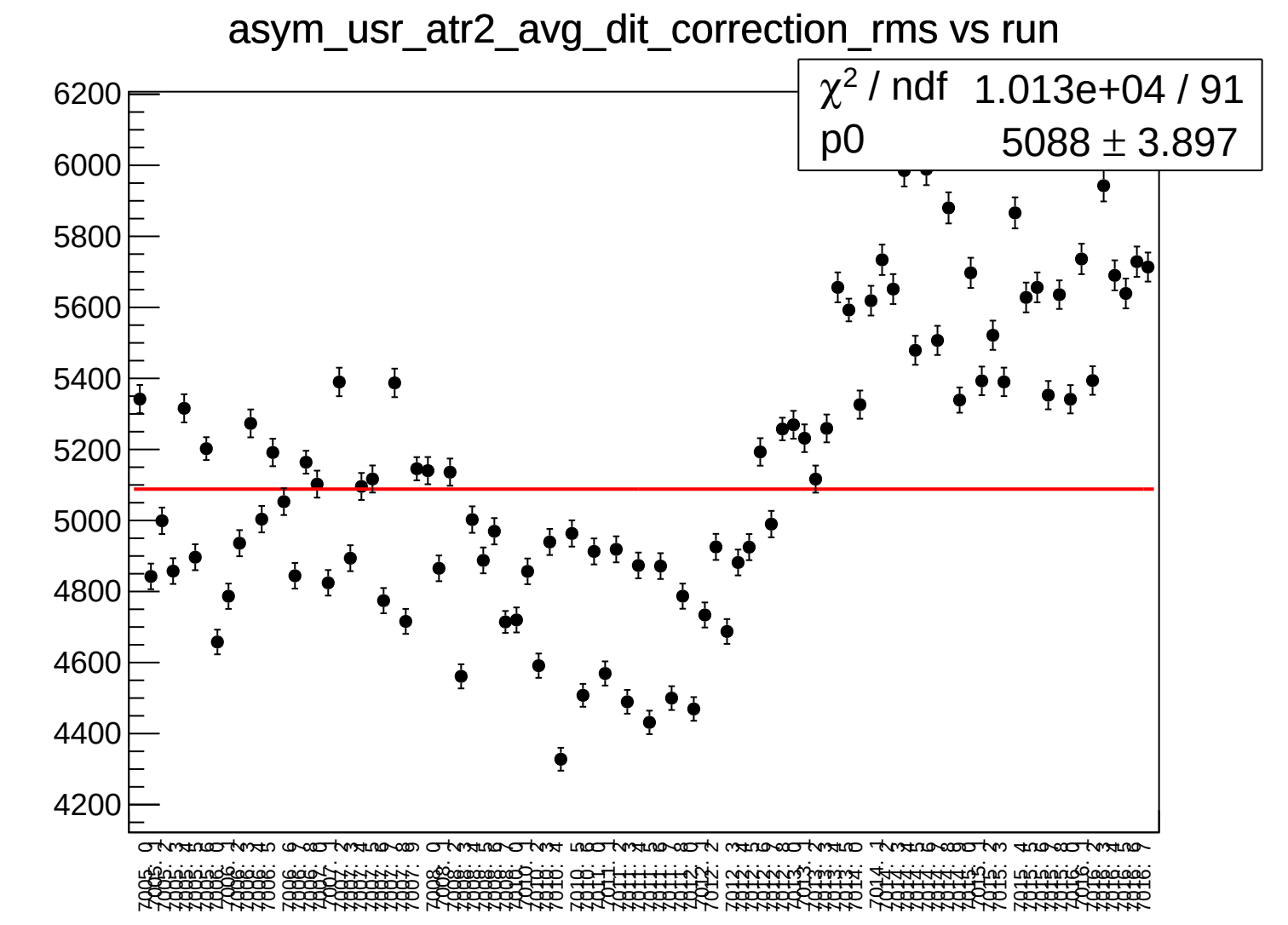

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 79.49 / 91
p0 −1443 ± 1672
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −11.2
Std Dev 0
2
1
0
−1
−2
−3

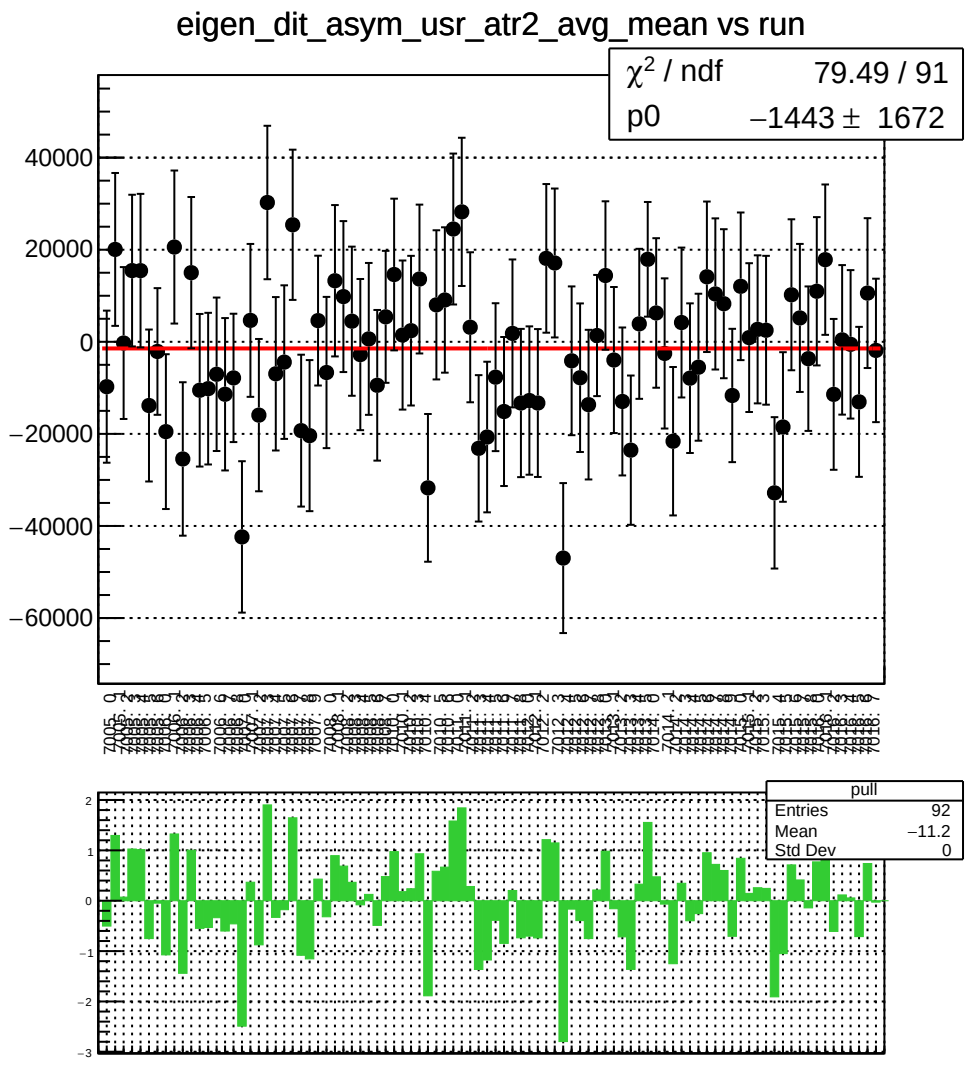

pull1D
Entries 92
Mean −0.005189
Std Dev 0.9295
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

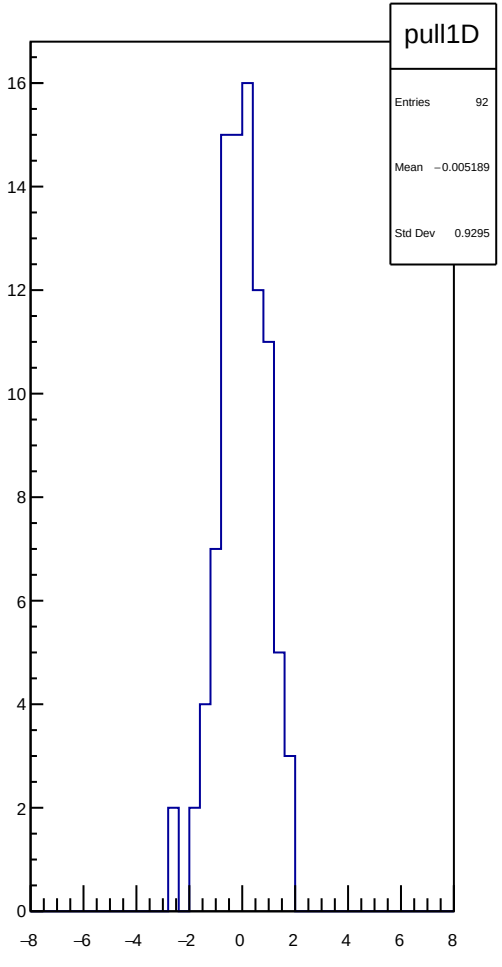

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 255.2 / 91
p0 1548 ± 1.182
1600
1580
1560
1540
1520
1500

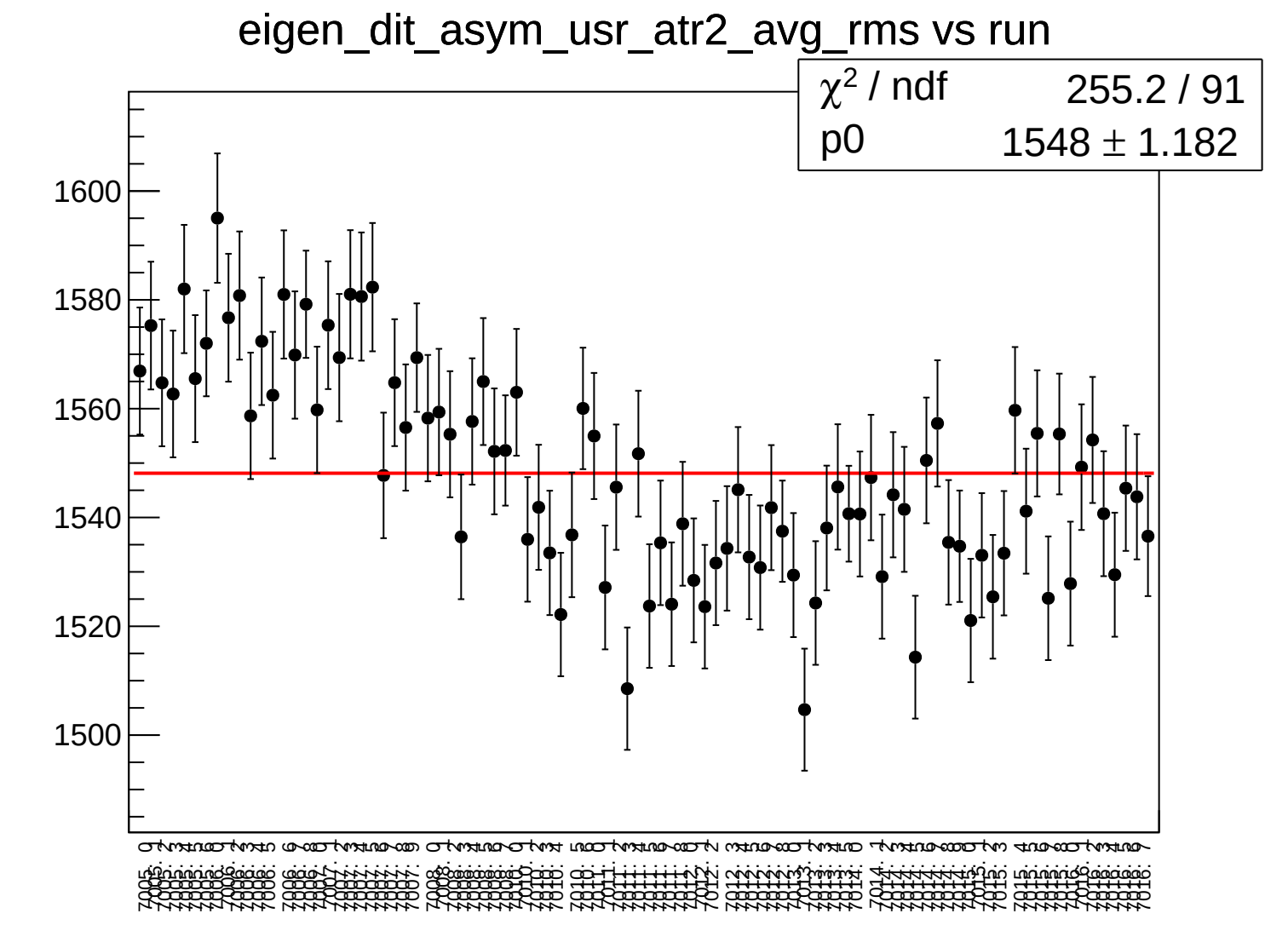

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87 / 91
p0 −1.379e+04 ± 5511
pull
Entries 92
Mean 322.1
Std Dev 0

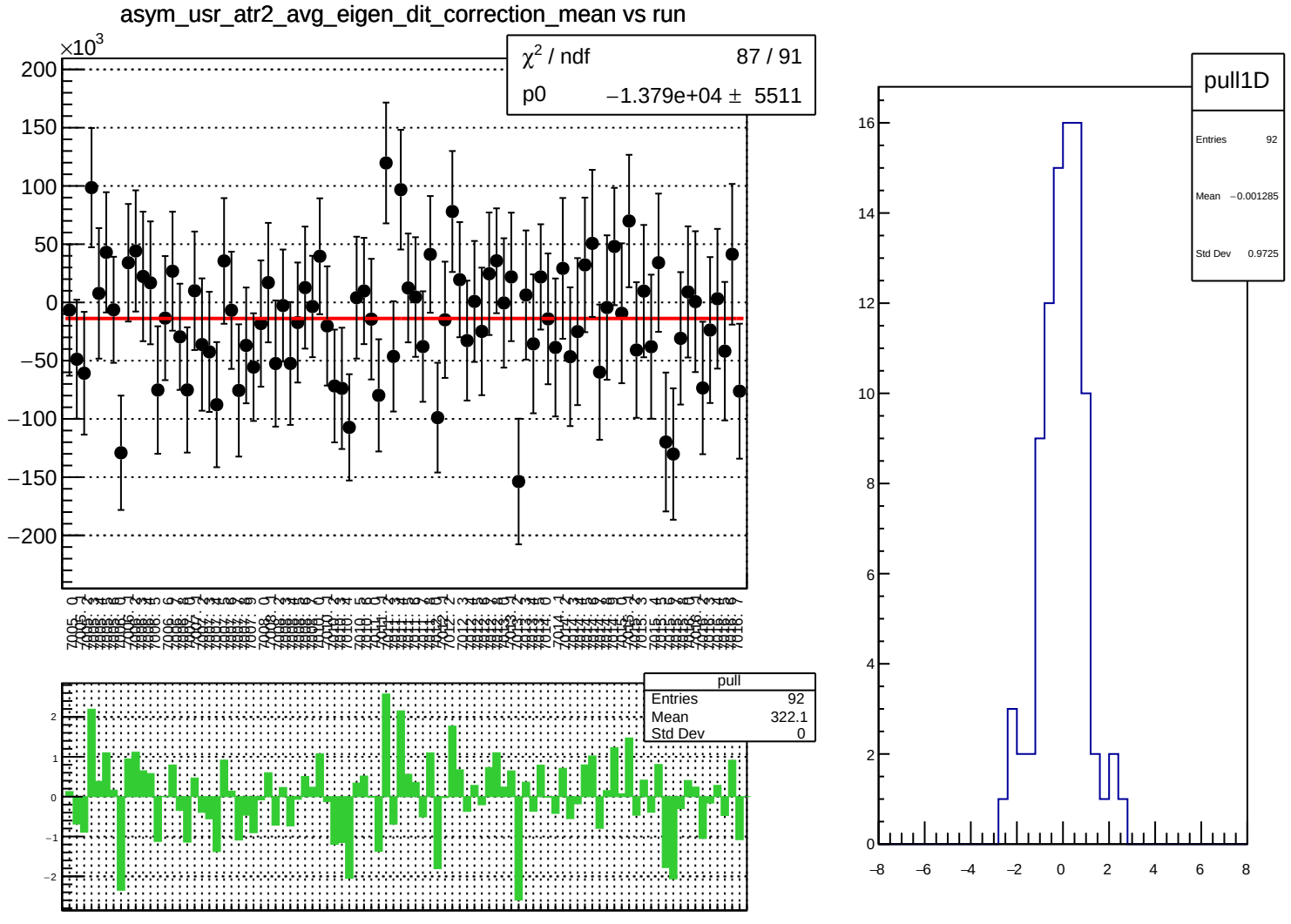

pull1D
Entries 92
Mean −0.001285
Std Dev 0.9725

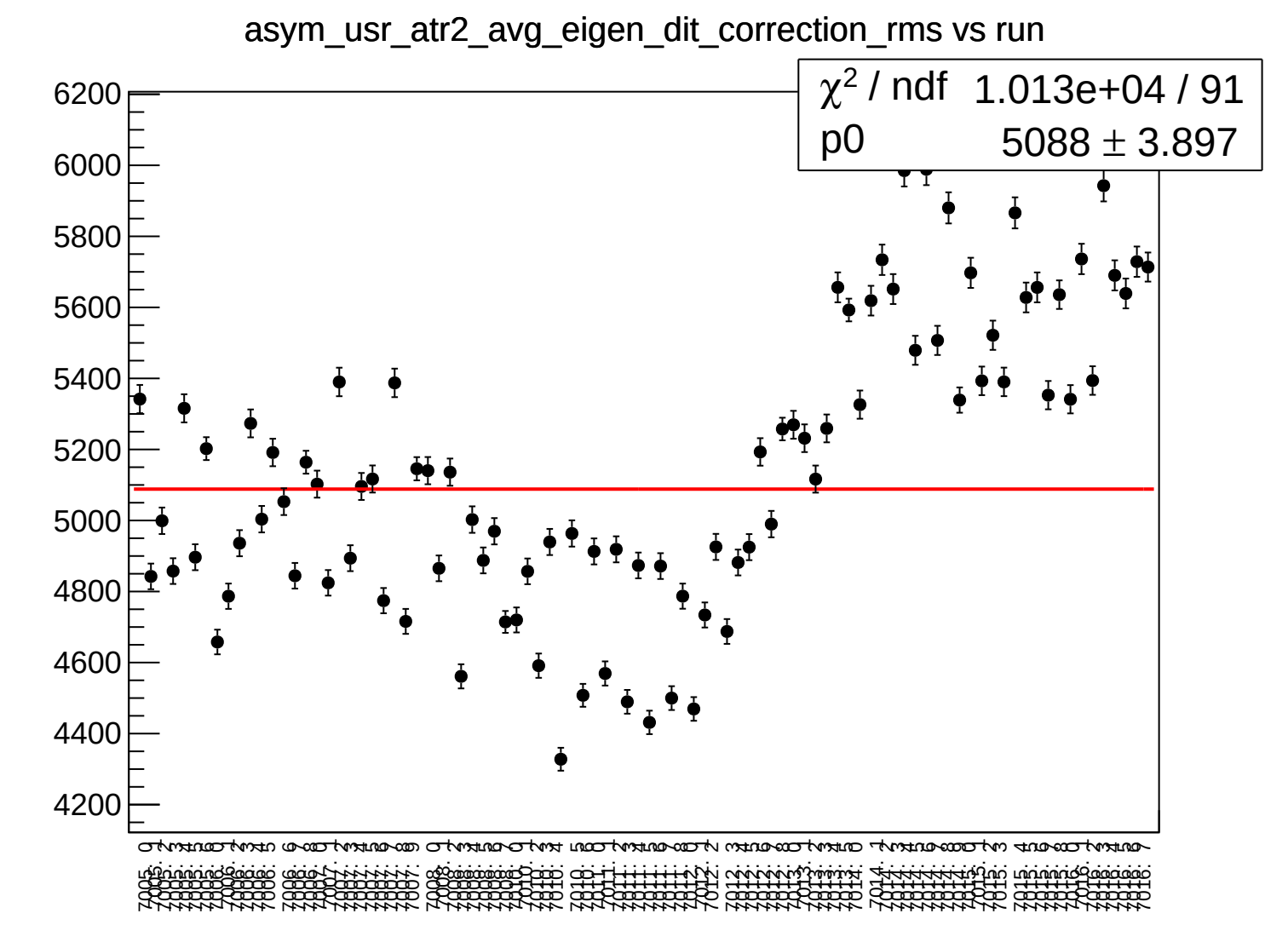

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1.013e+04 / 91
p0 5088 ± 3.897
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

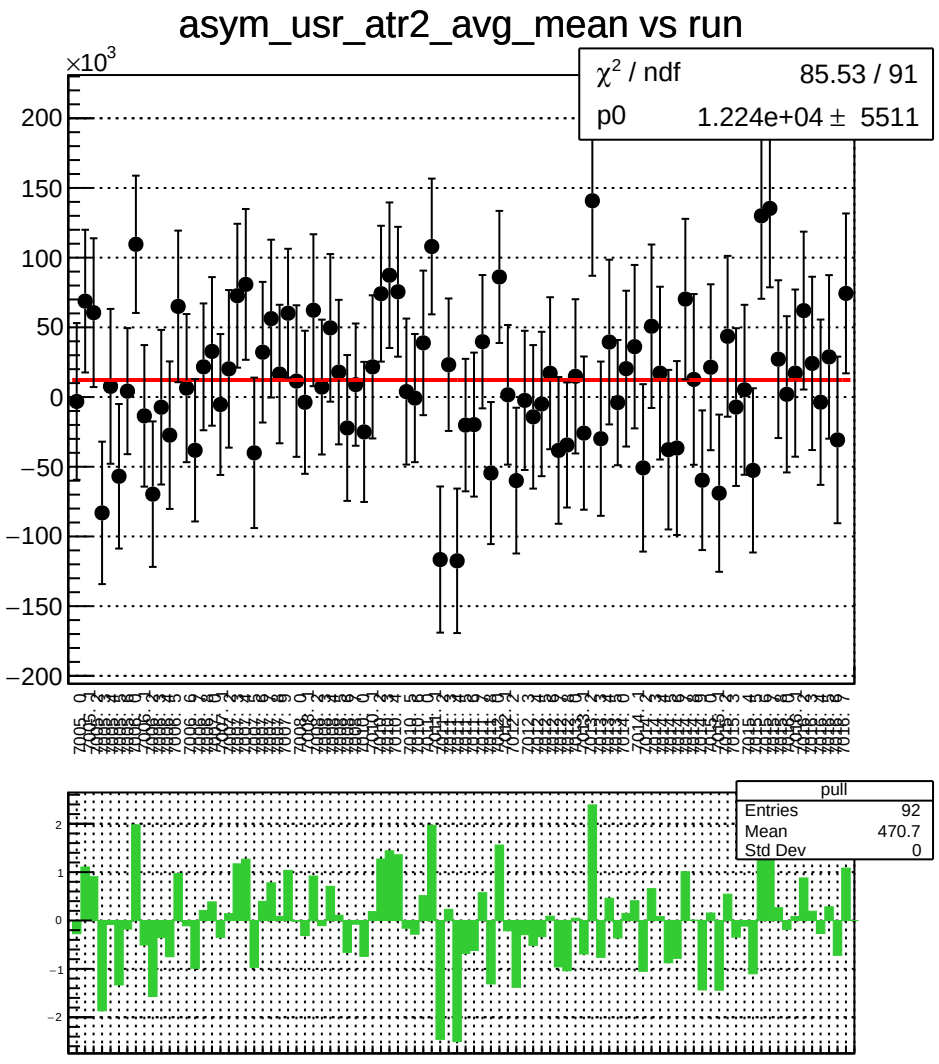

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 79.49 / 91
p0 −1443 ± 1672
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −11.2
Std Dev 0
2
1
0
−1
−2
−3

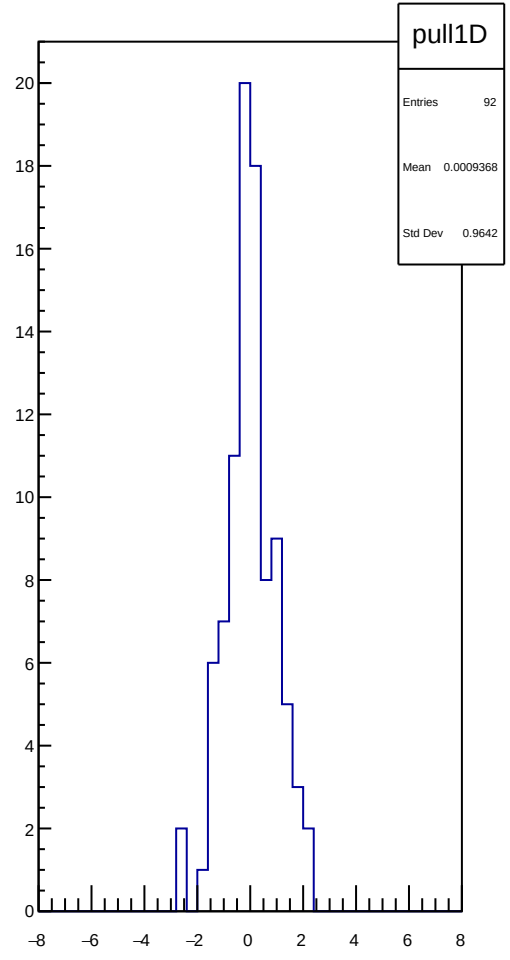

pull1D
Entries 92
Mean −0.005189
Std Dev 0.9295
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

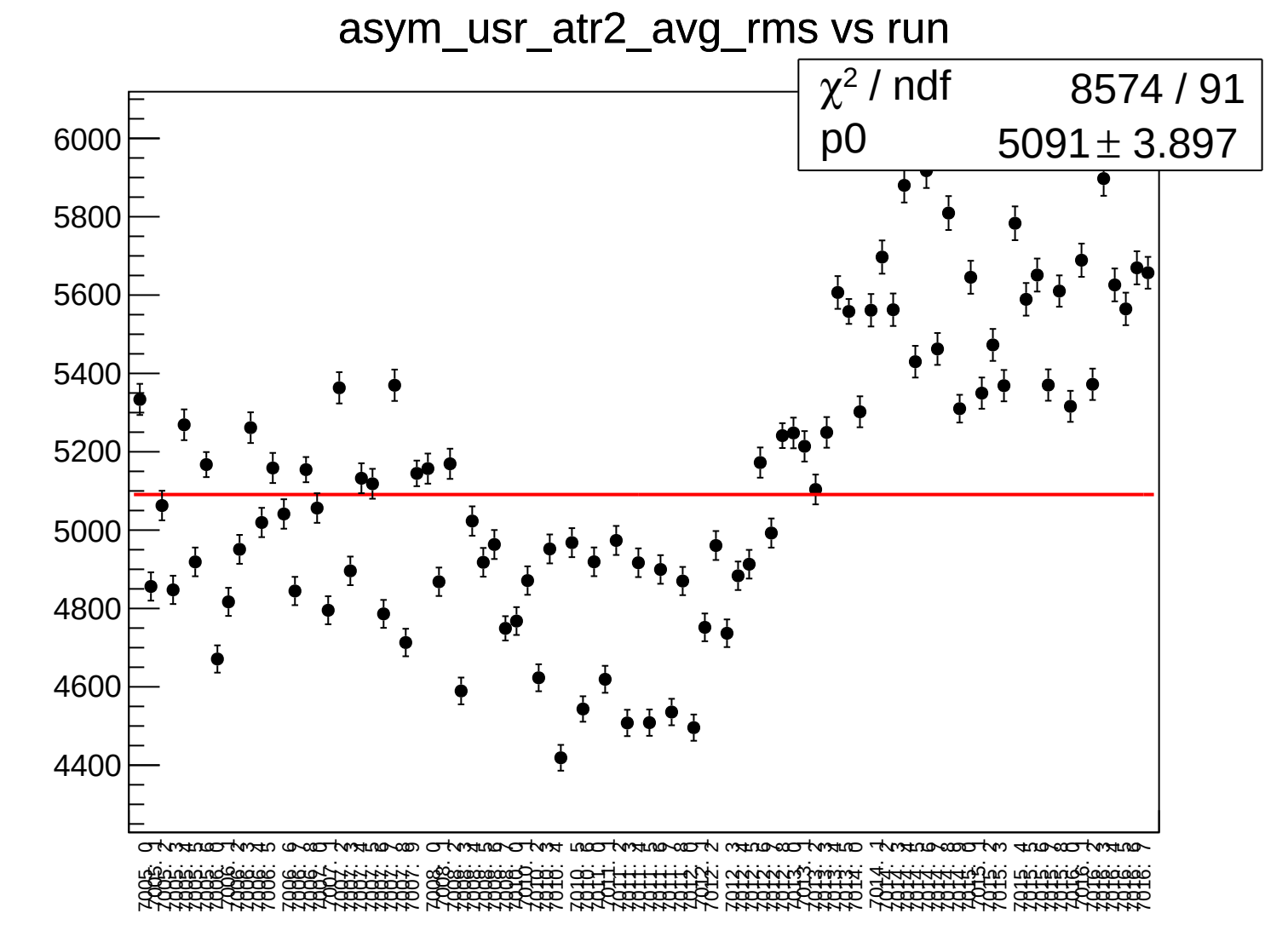

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 255.2 / 91
p0 1548 ± 1.182
1600
1580
1560
1540
1520
1500

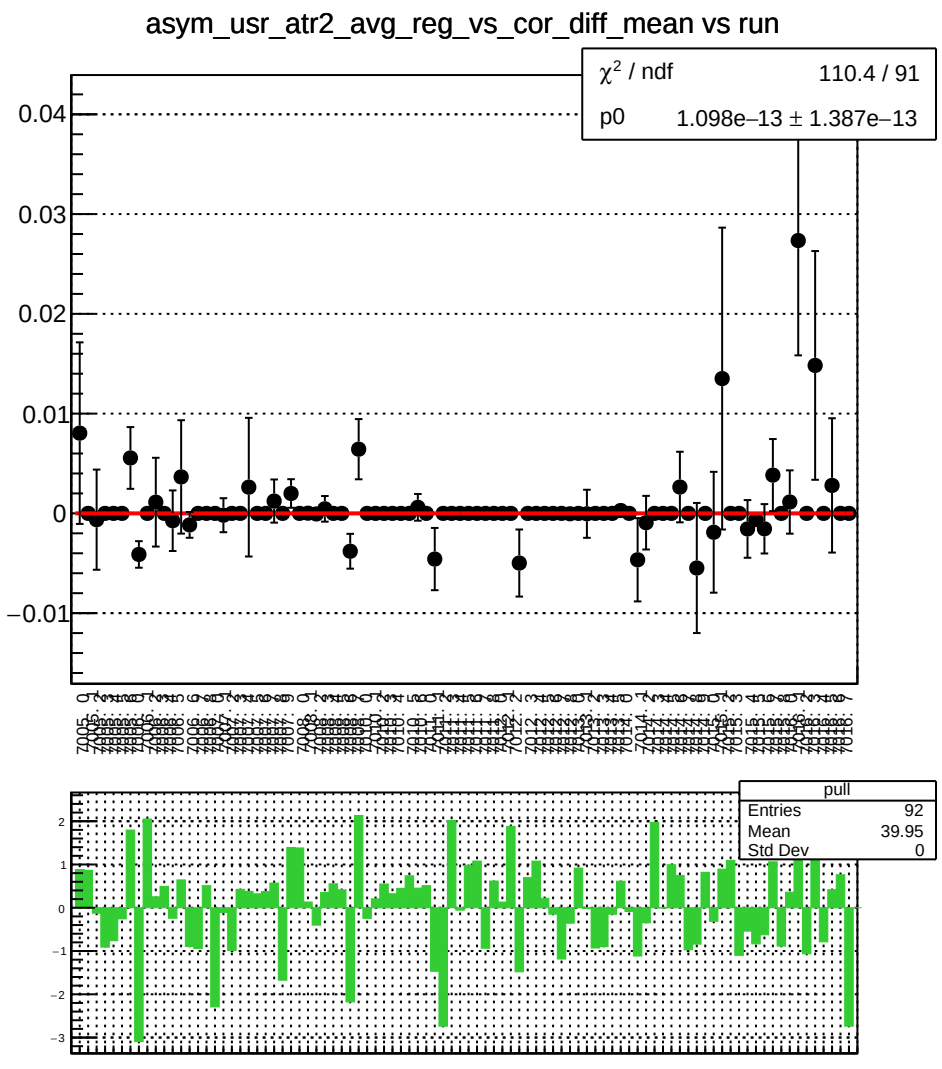

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87 / 91
p0 −1.379e+04 ± 5511
pull
Entries 92
Mean 322.1
Std Dev 0
pull1D
Entries 92
Mean −0.001285
Std Dev 0.9725

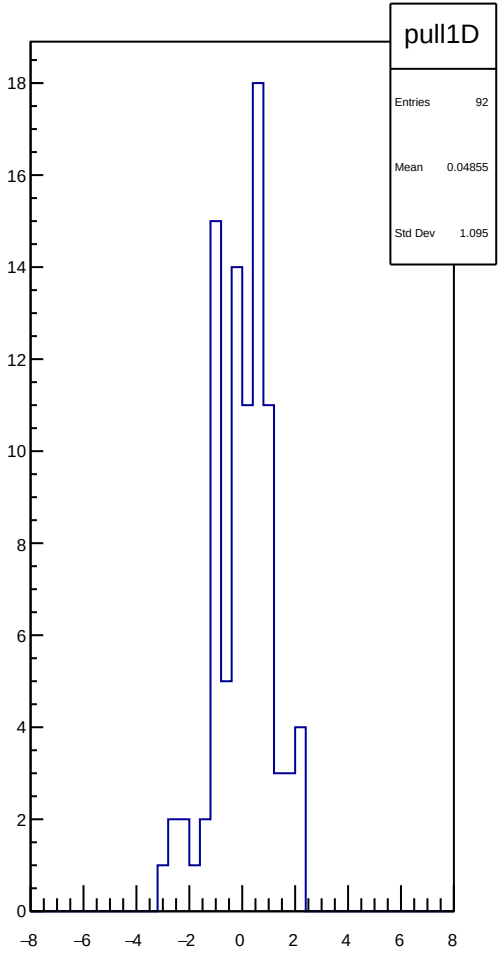

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.013e+04 / 91
p0 5088 ± 3.897
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

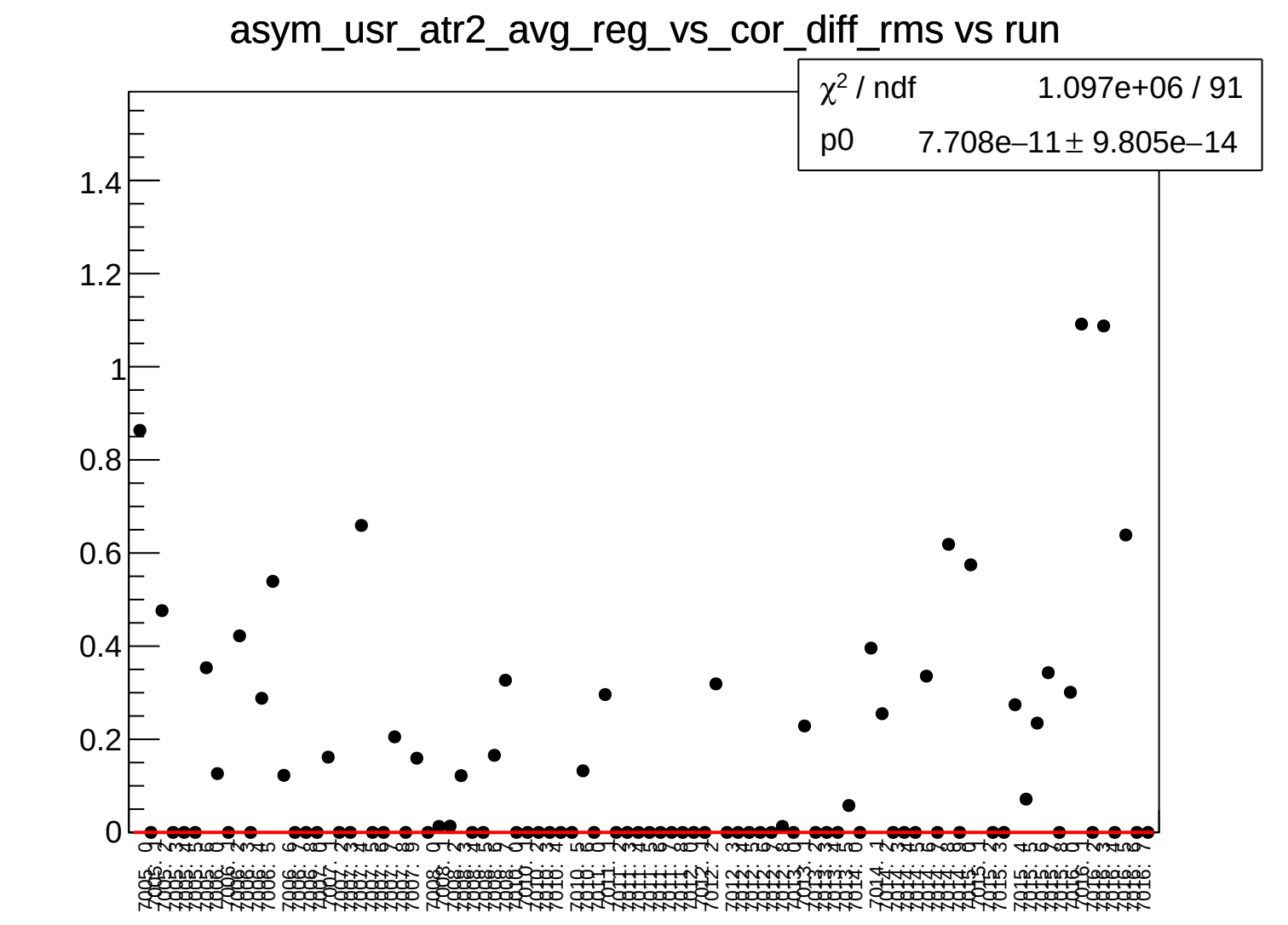

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 85.53 / 91
p0 1.224e+04 ± 5511
pull
Entries 92
Mean 470.7
Std Dev 0

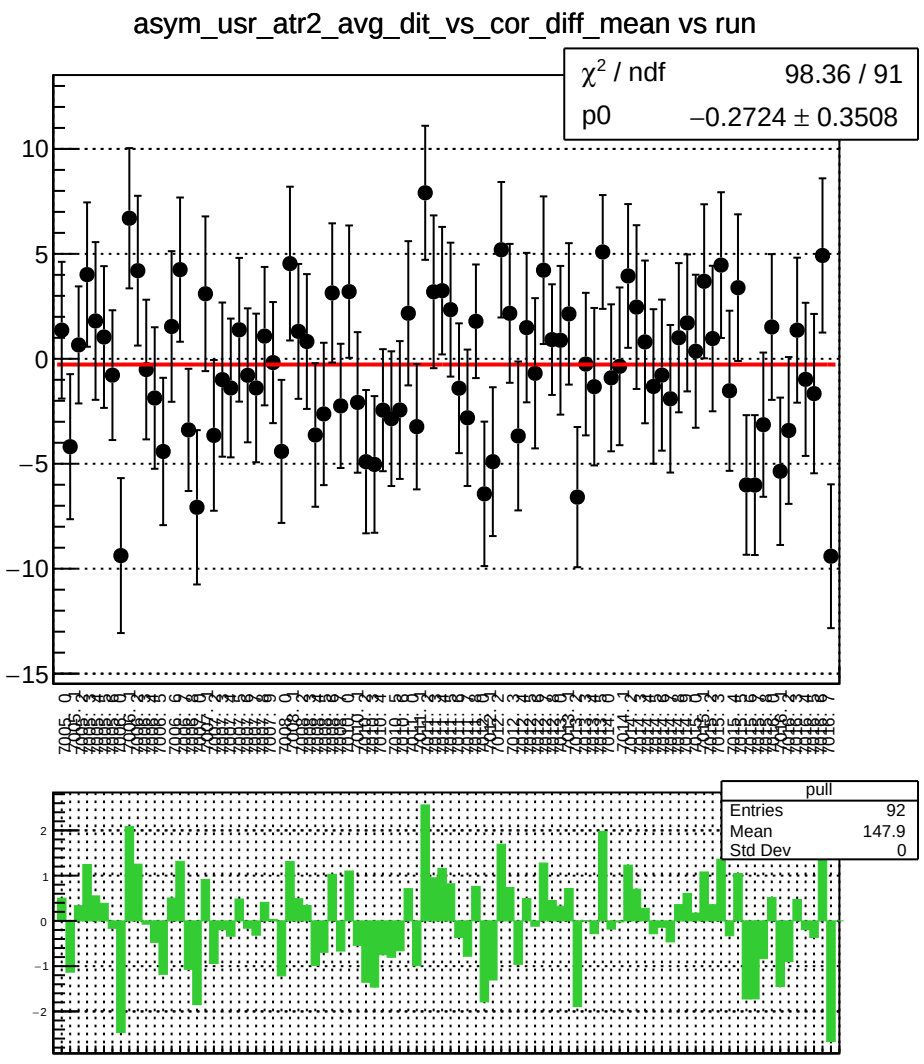

pull1D
Entries 92
Mean 0.0009368
Std Dev 0.9642

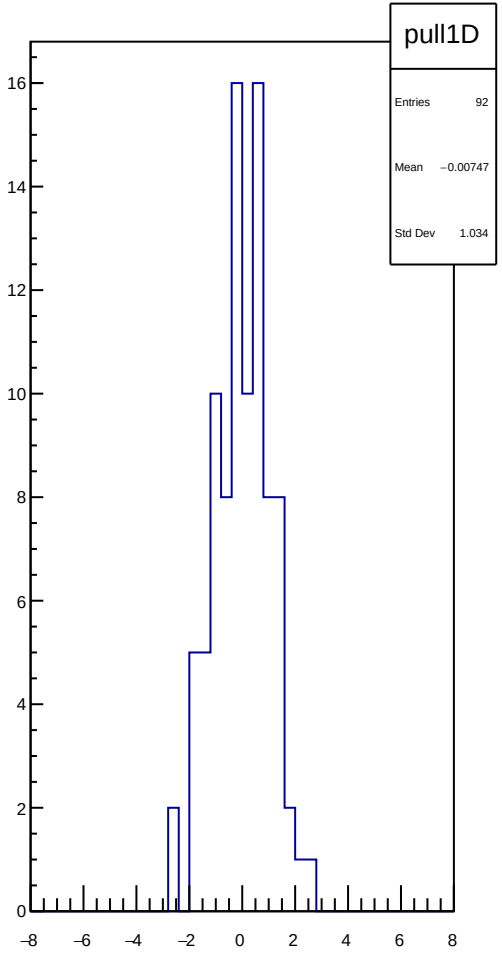

asym_usr_atr2_avg_rms vs run
χ² / ndf 8574 / 91
p0 5091 ± 3.897
6000
5800
5600
5400
5200
5000
4800
4600
4400

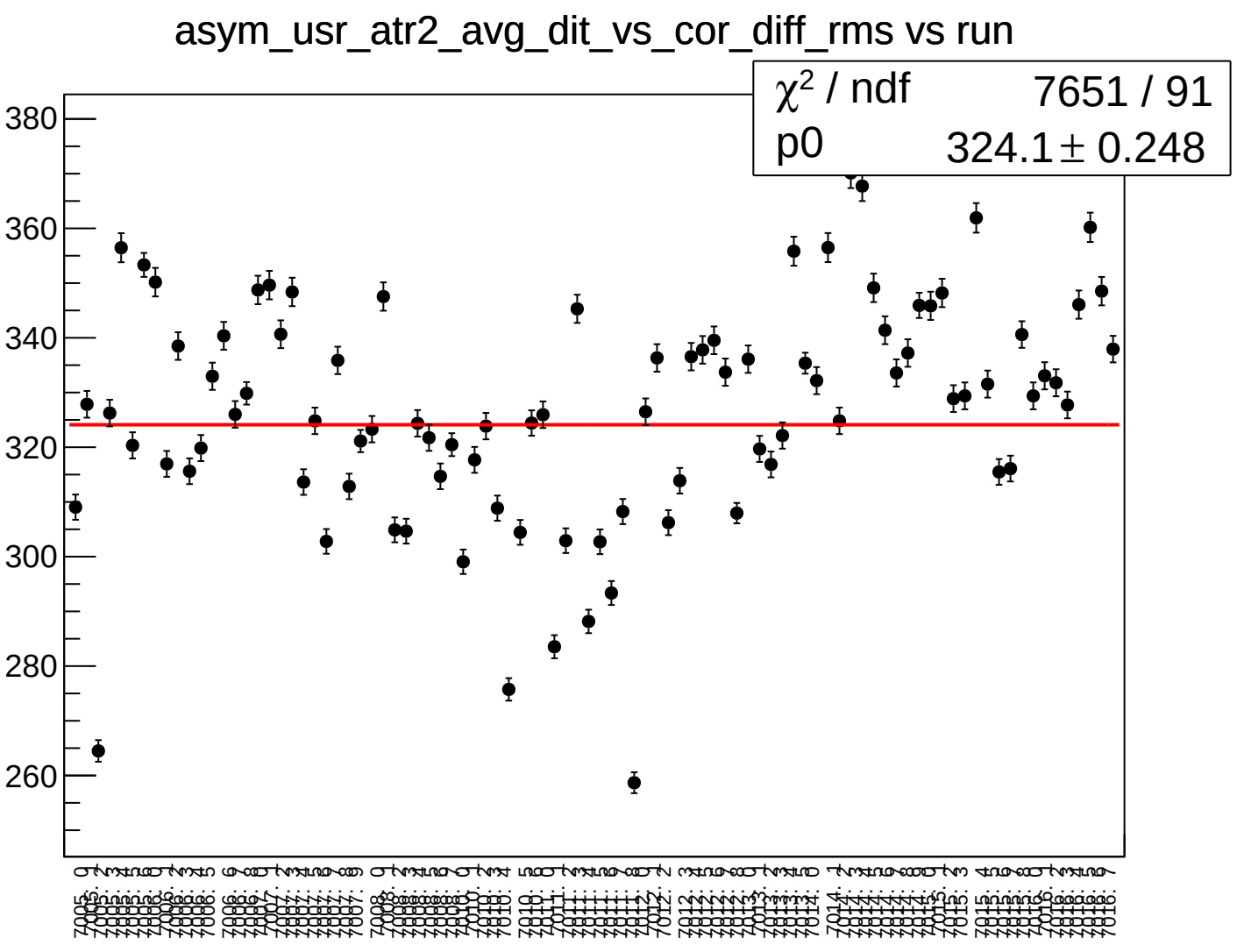

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 91
p0 1.098e−13 ± 1.387e−13
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 92
Mean 39.95
Std Dev 0
2
1
0
−1
−2
−3

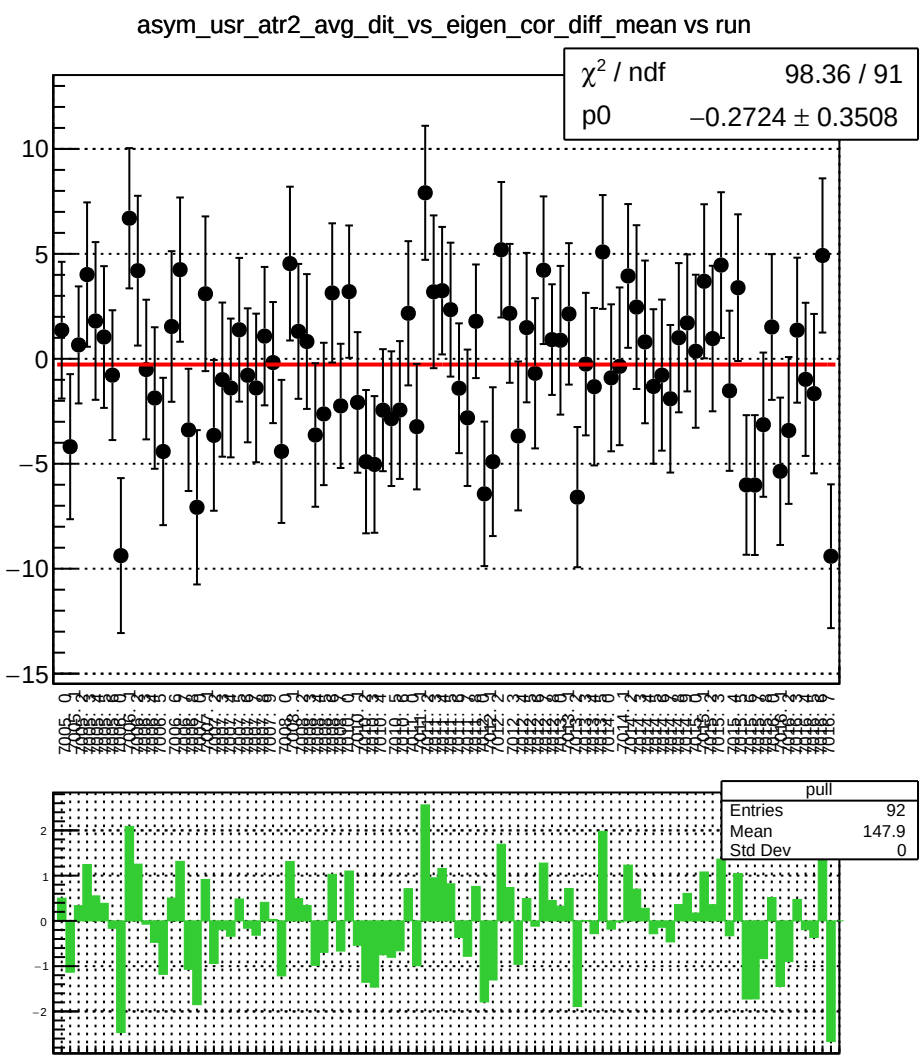

pull1D
Entries 92
Mean 0.04855
Std Dev 1.095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

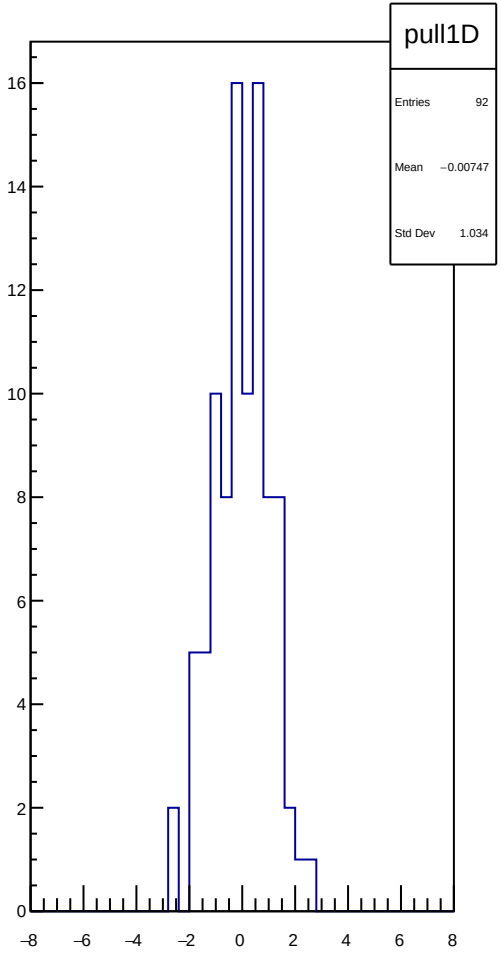

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.097e+06 / 91
p0 7.708e−11 ± 9.805e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

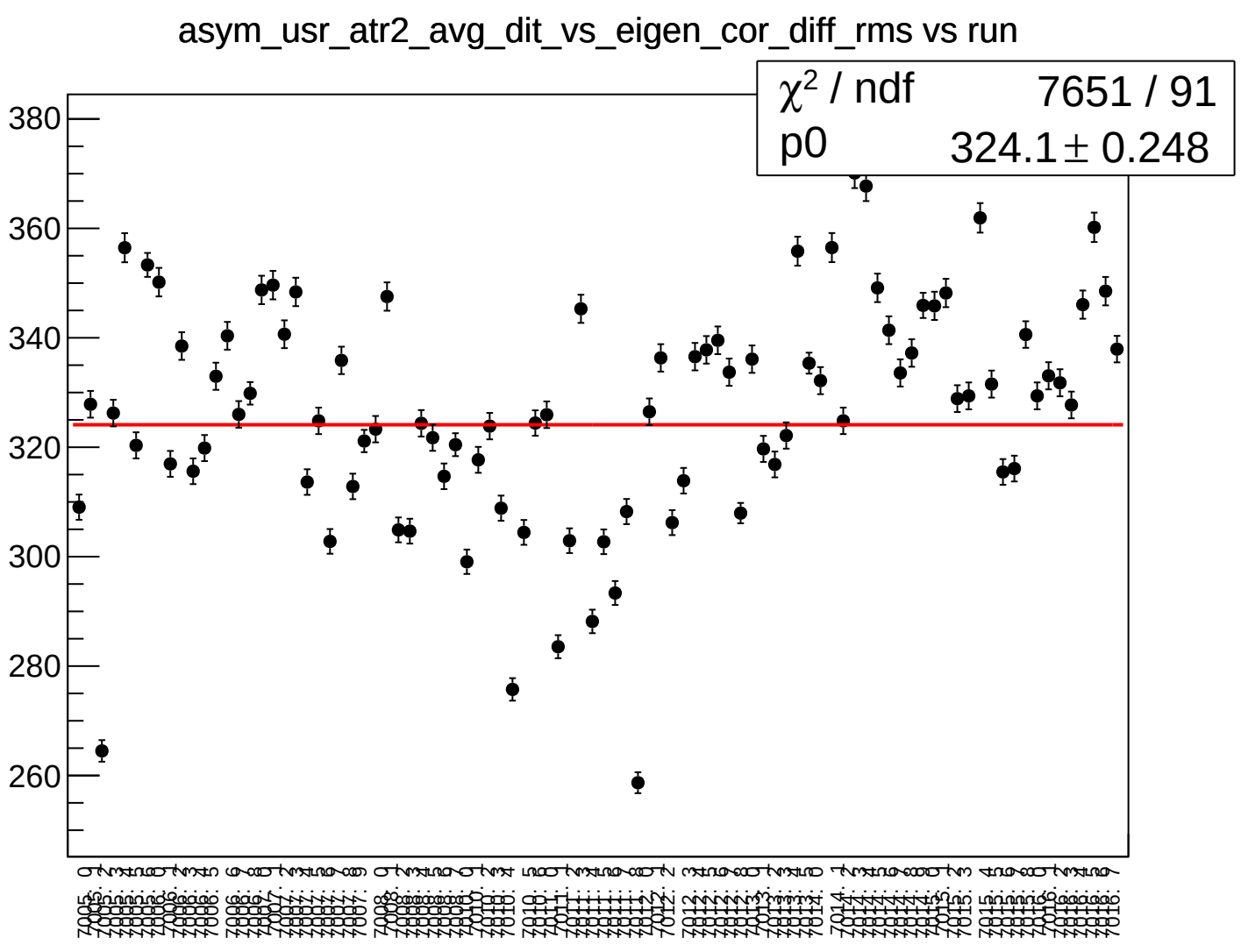

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.36 / 91
p0 −0.2724 ± 0.3508
pull
Entries 92
Mean 147.9
Std Dev 0

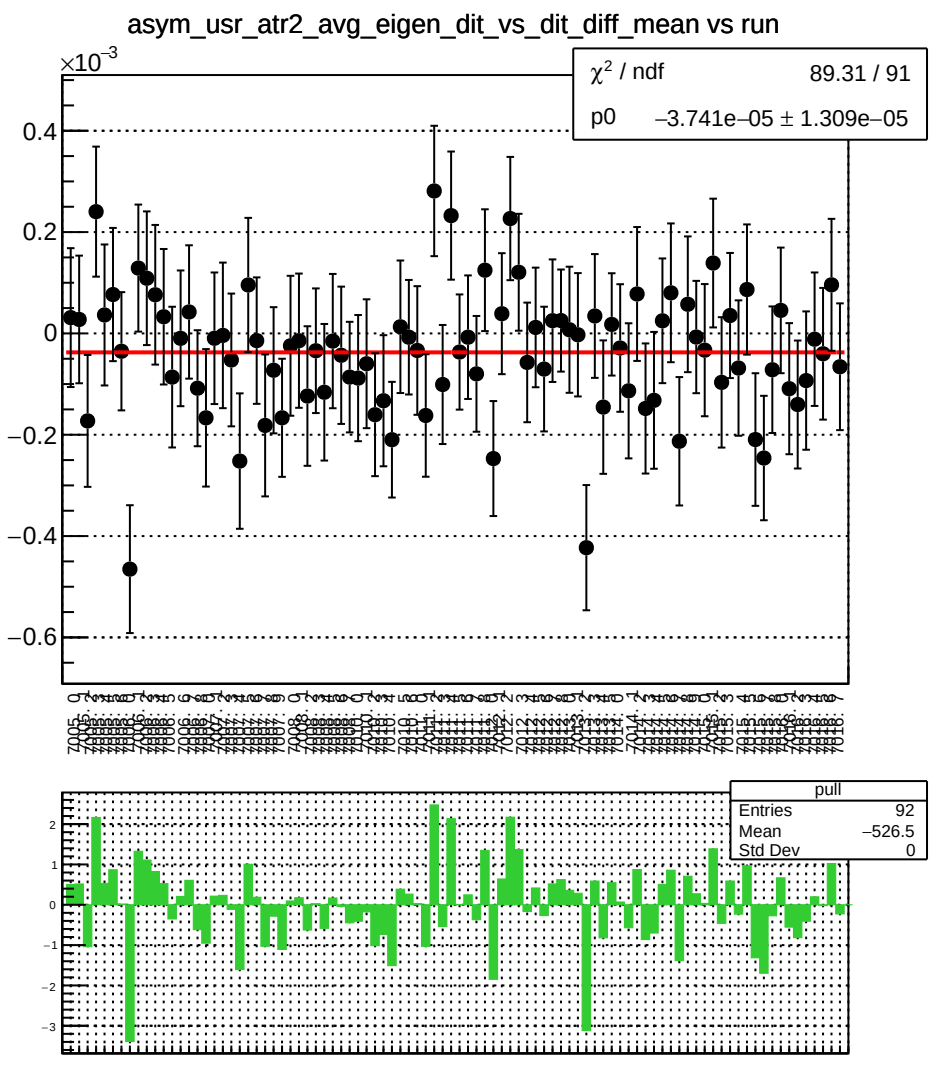

pull1D
Entries 92
Mean −0.00747
Std Dev 1.034

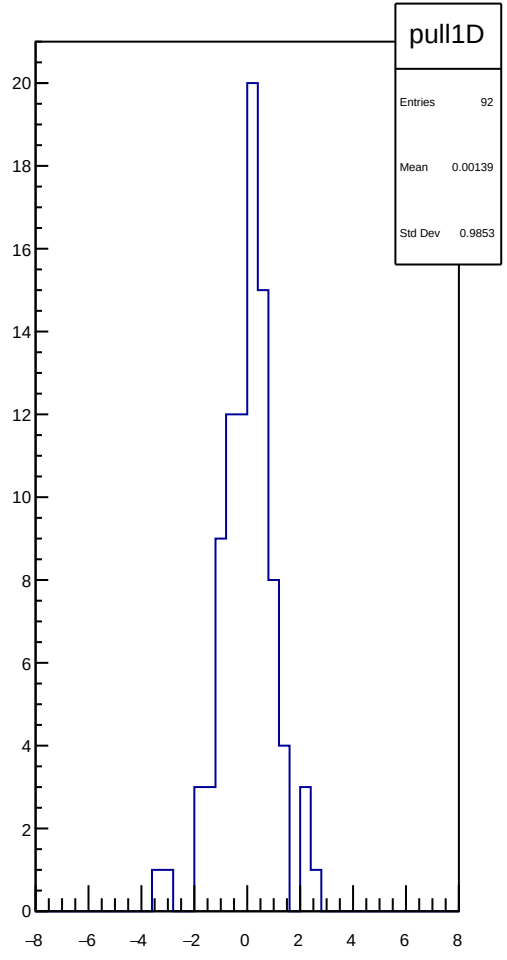

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7651 / 91
p0 324.1 ± 0.248
380
360
340
320
300
280
260

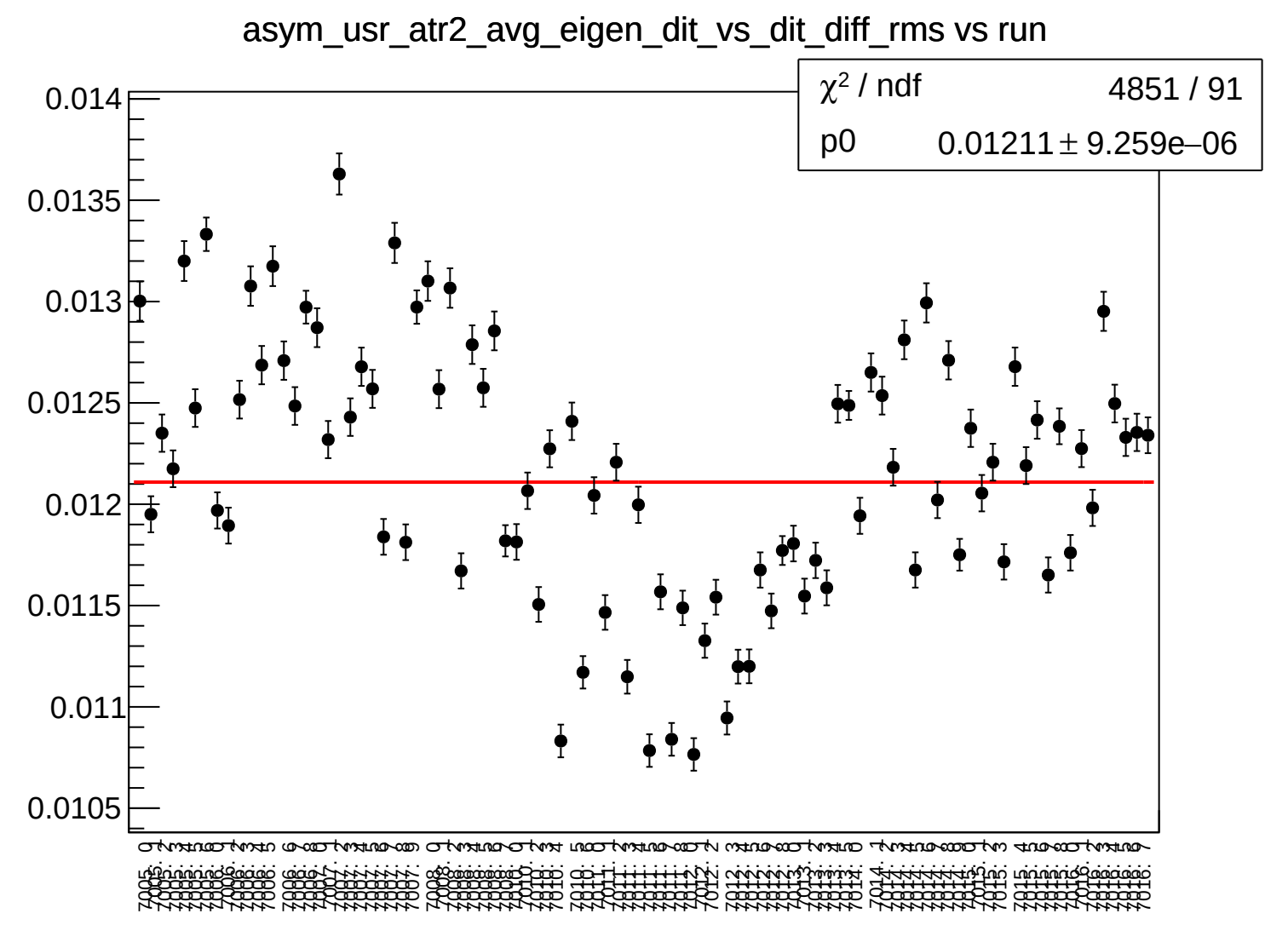

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.36 / 91
p0 −0.2724 ± 0.3508
pull
Entries 92
Mean 147.9
Std Dev 0

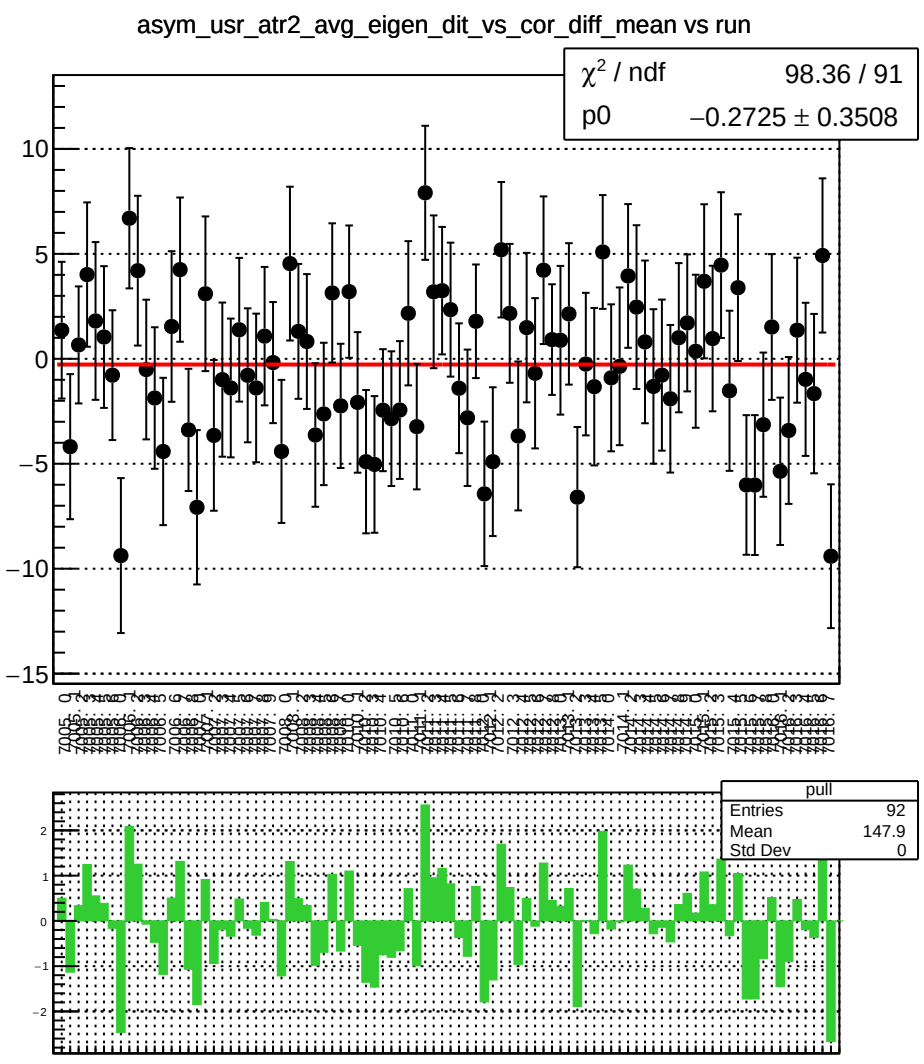

pull1D
Entries 92
Mean −0.00747
Std Dev 1.034

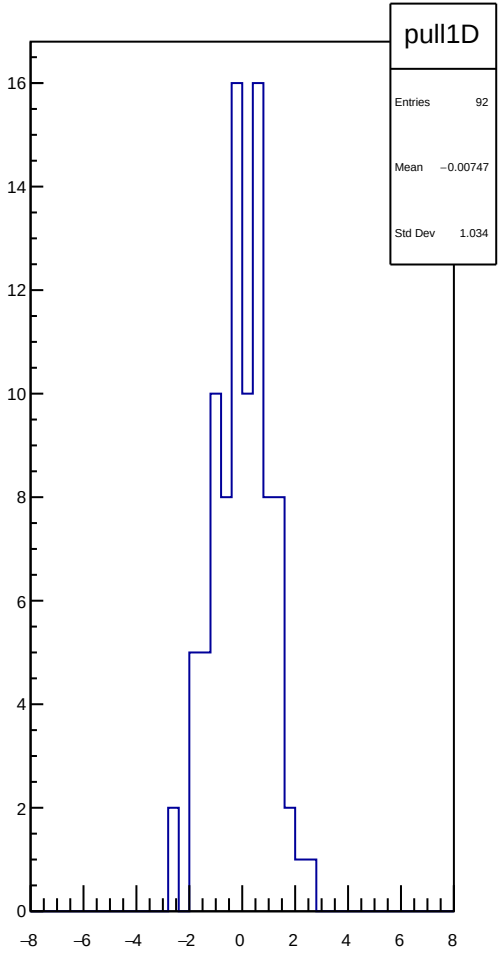

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7651 / 91
p0 324.1 ± 0.248
380
360
340
320
300
280
260

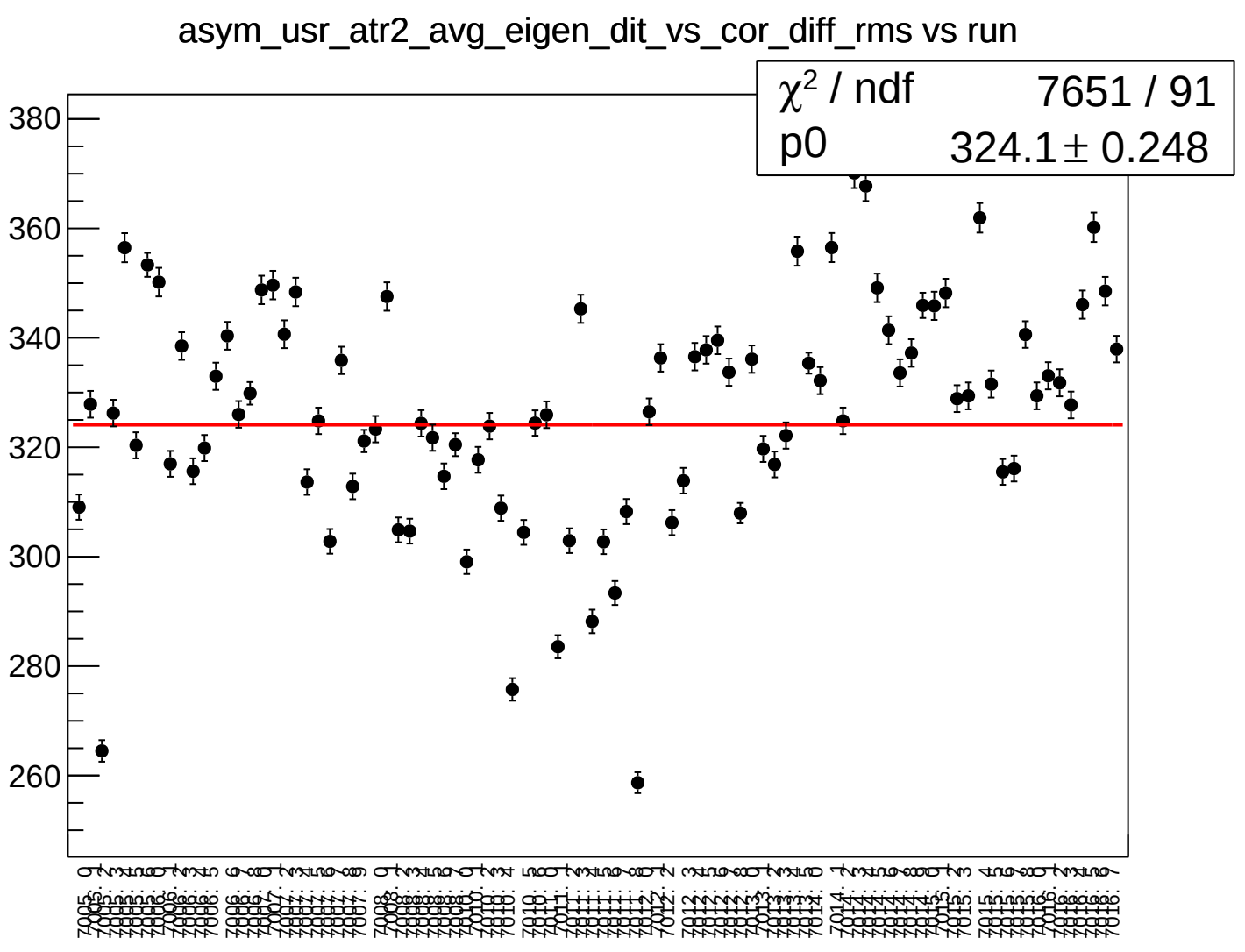

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.31 / 91
p0 −3.741e−05 ± 1.309e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean −526.5
Std Dev 0
2
1
0
−1
−2
−3

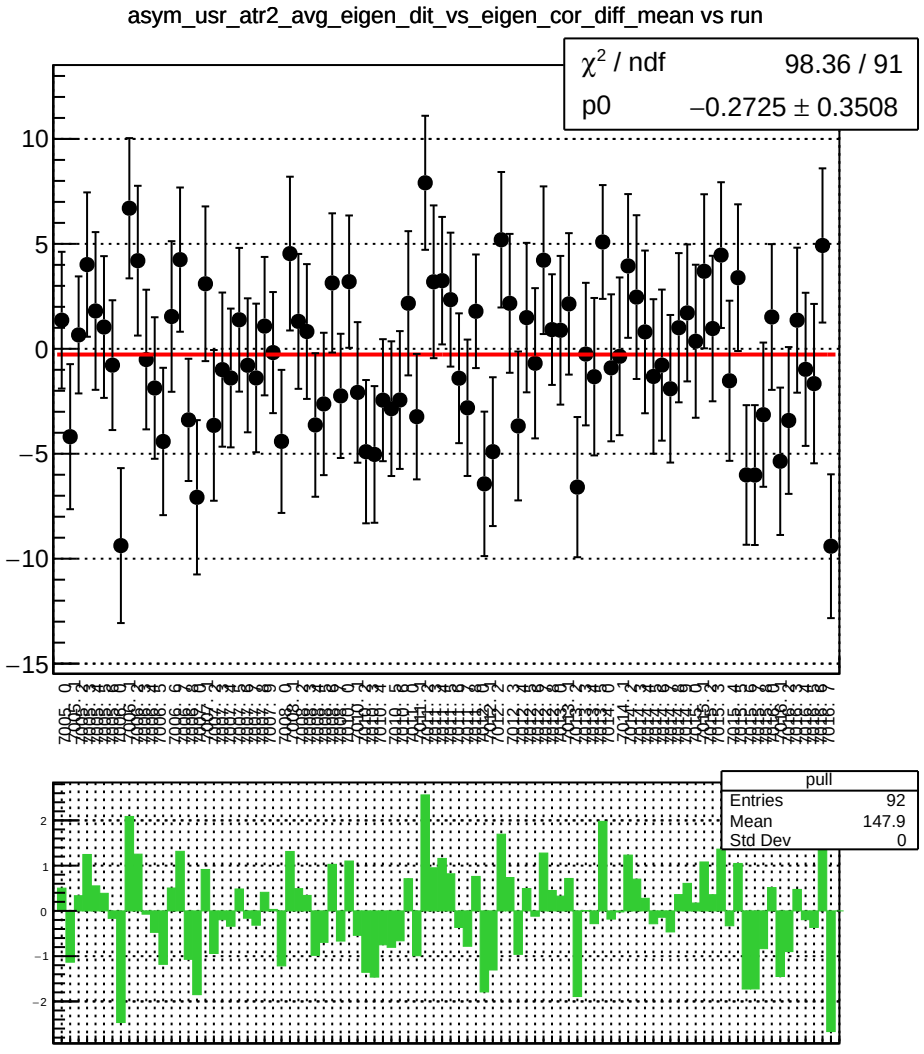

pull1D
Entries 92
Mean 0.00139
Std Dev 0.9853
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

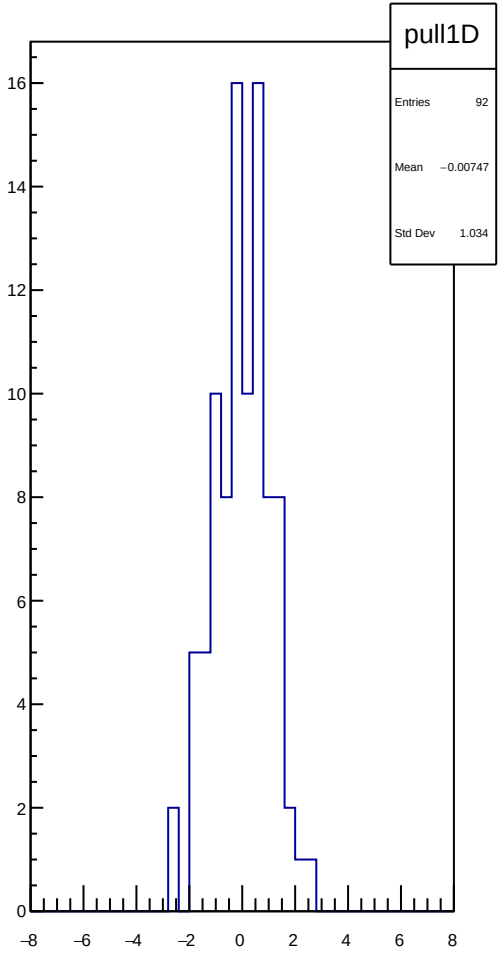

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4851 / 91
p0 0.01211 ± 9.259e–06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

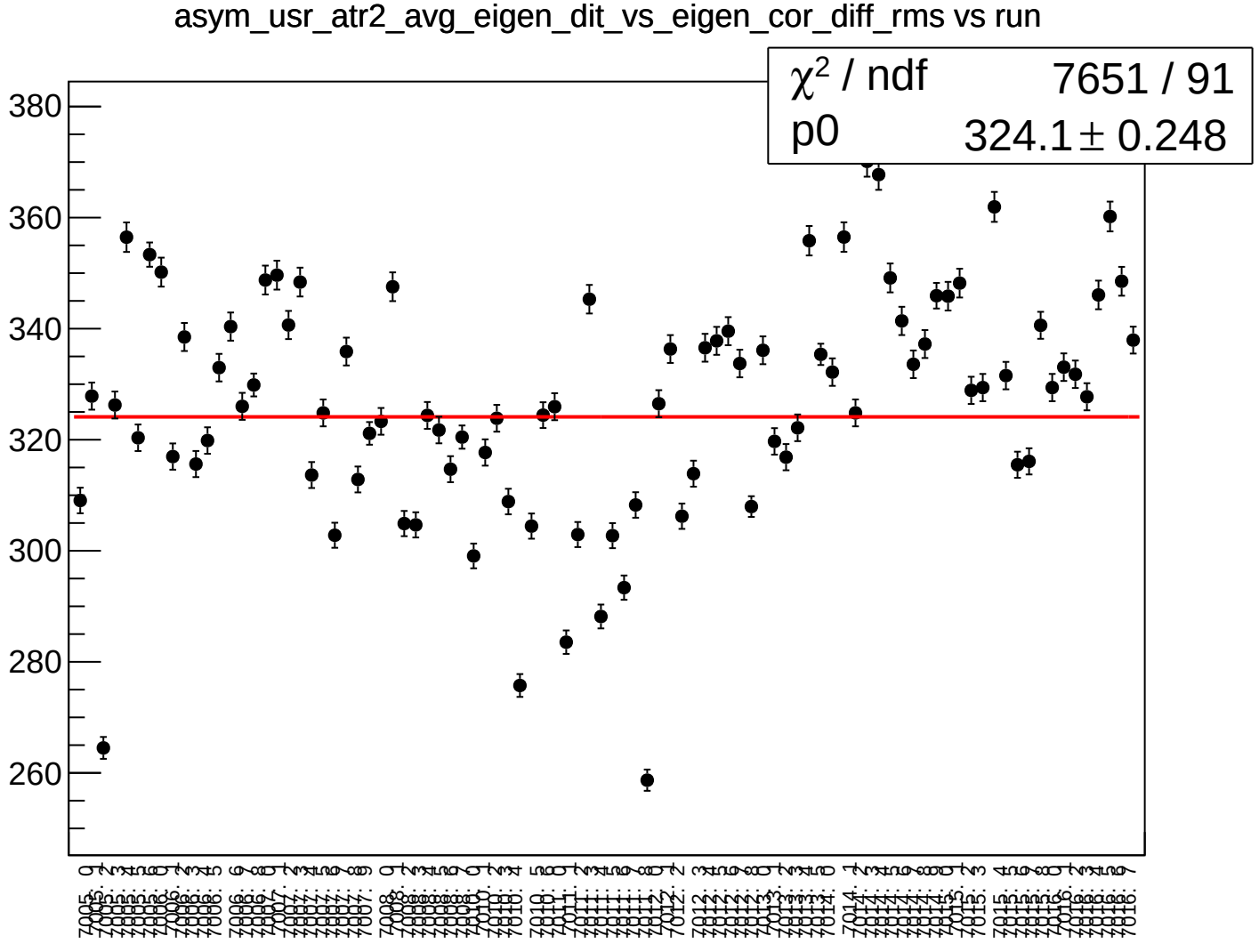

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.36 / 91
p0 −0.2725 ± 0.3508
pull
Entries 92
Mean 147.9
Std Dev 0

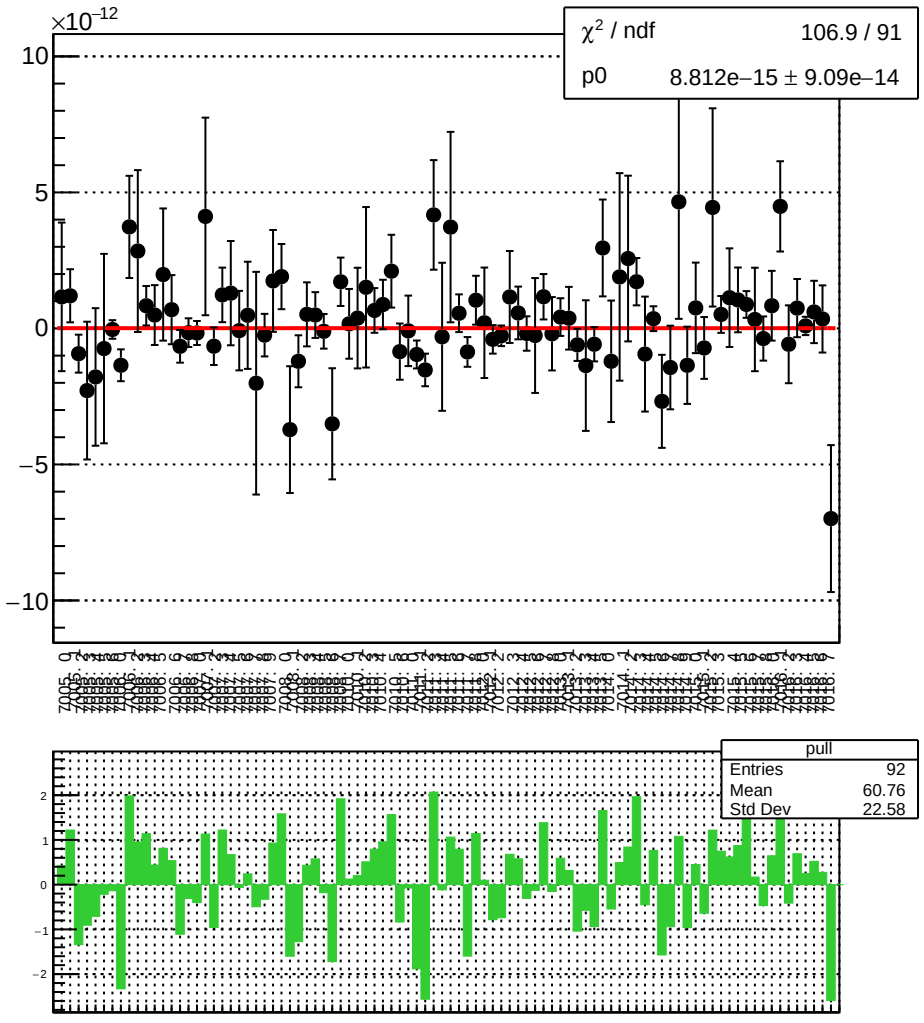

pull1D
Entries 92
Mean −0.00747
Std Dev 1.034

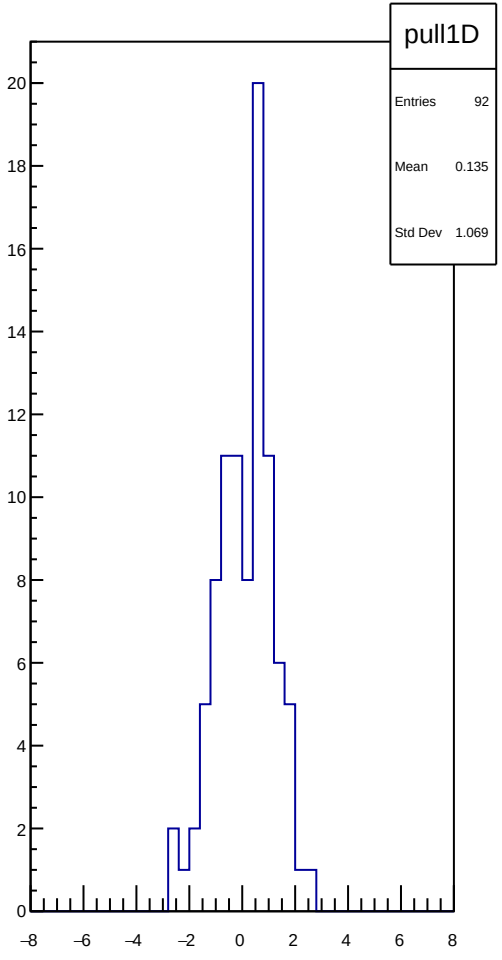

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7651 / 91
p0 324.1 ± 0.248
380
360
340
320
300
280
260

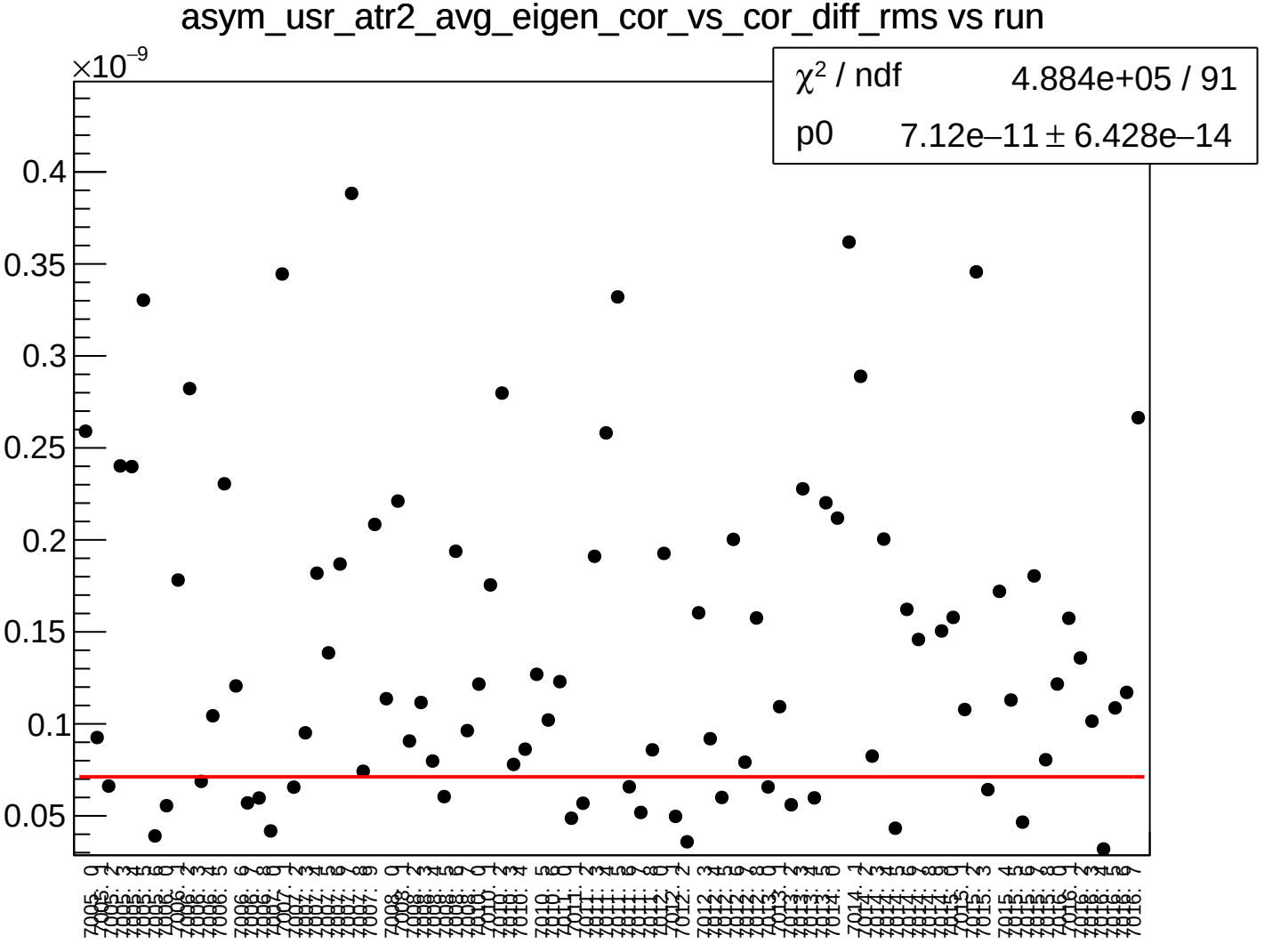

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.36 / 91
p0 −0.2725 ± 0.3508
pull
Entries 92
Mean 147.9
Std Dev 0

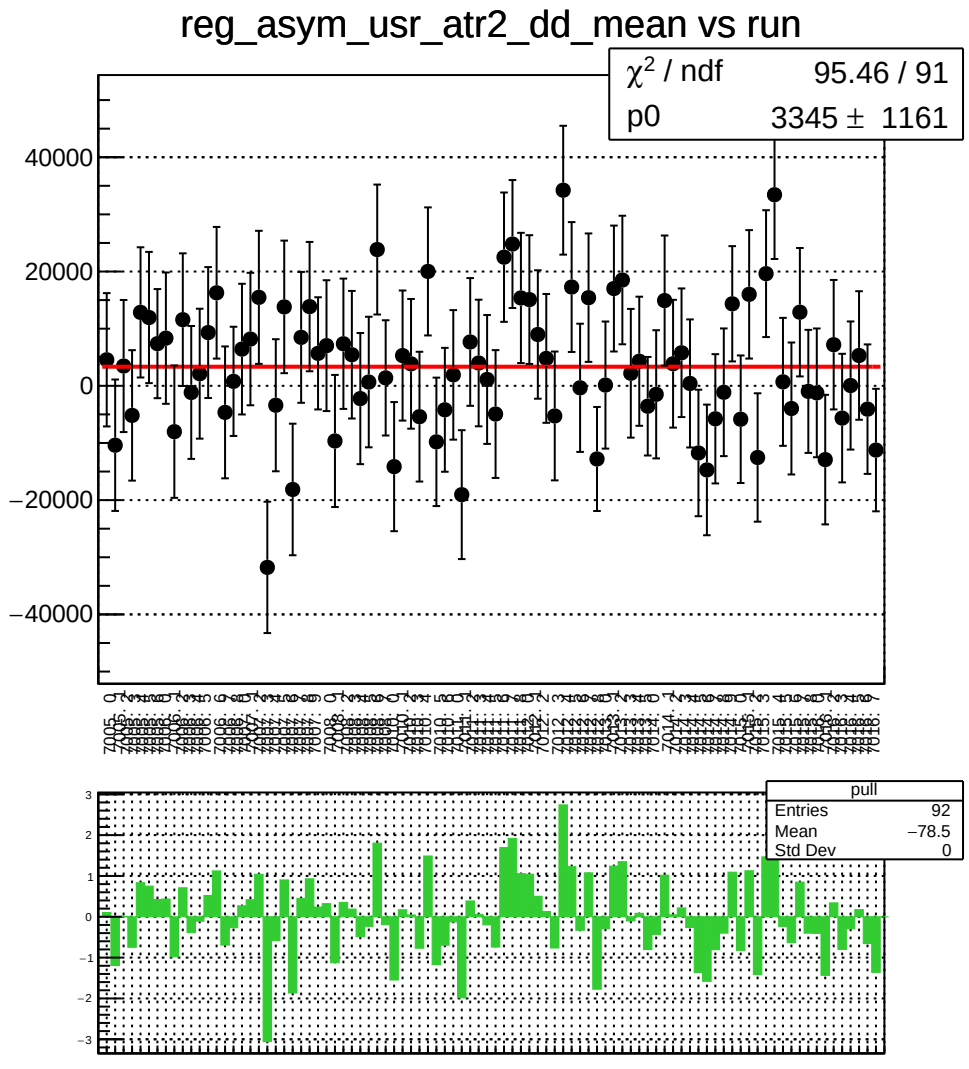

pull1D
Entries 92
Mean −0.00747
Std Dev 1.034

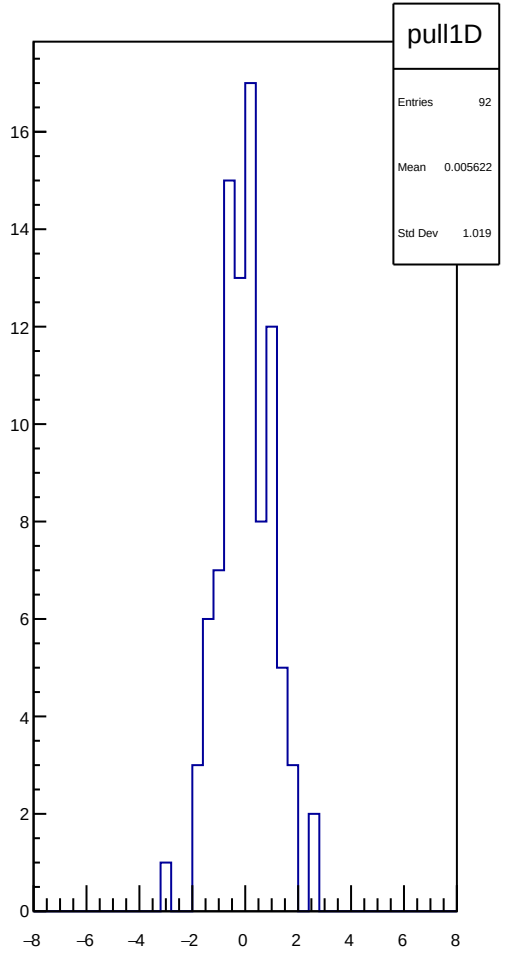

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7651 / 91
p0 324.1 ± 0.248
380
360
340
320
300
280
260

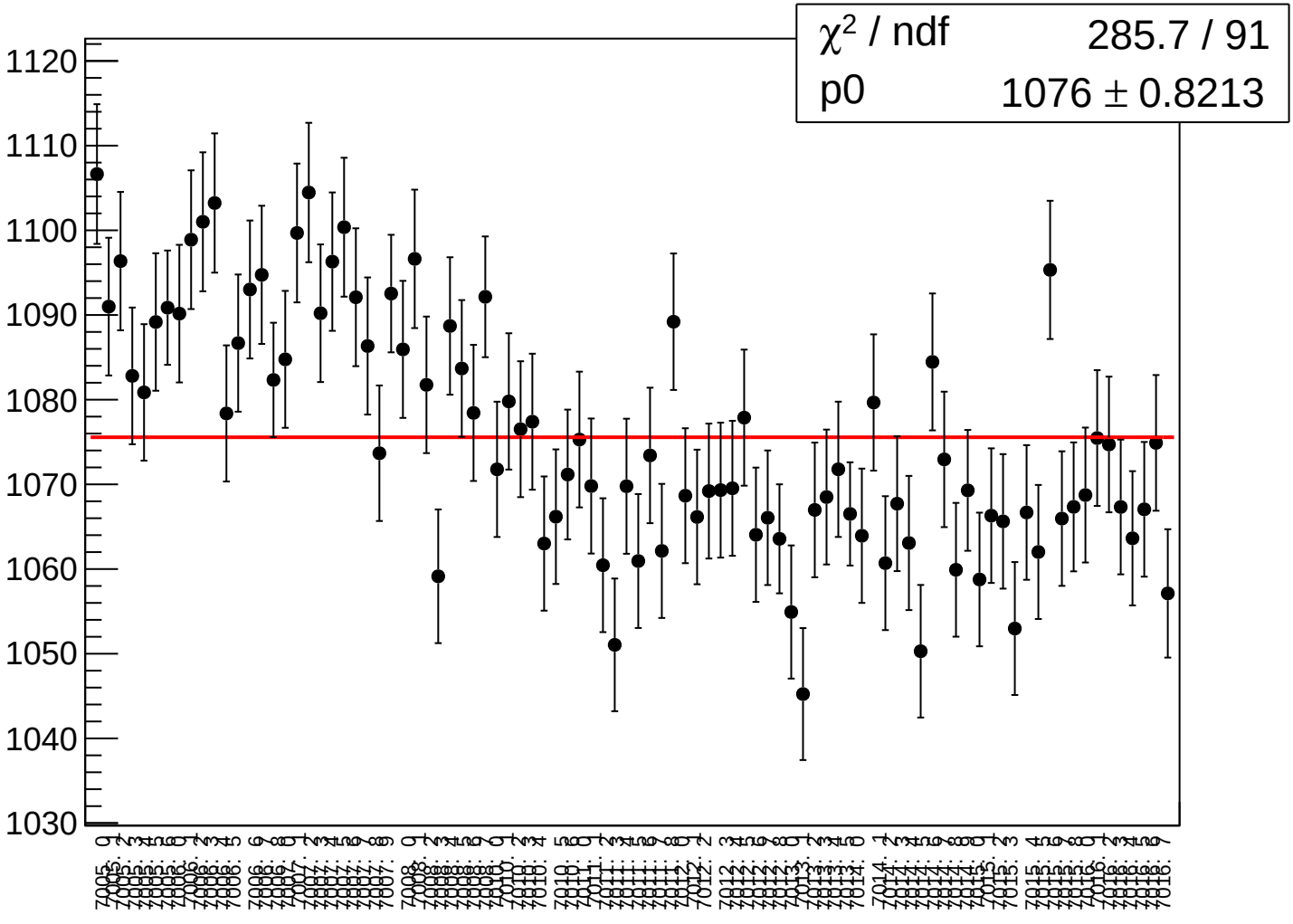

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.9 / 91
p0 8.812e−15 ± 9.09e−14
pull
Entries 92
Mean 60.76
Std Dev 22.58

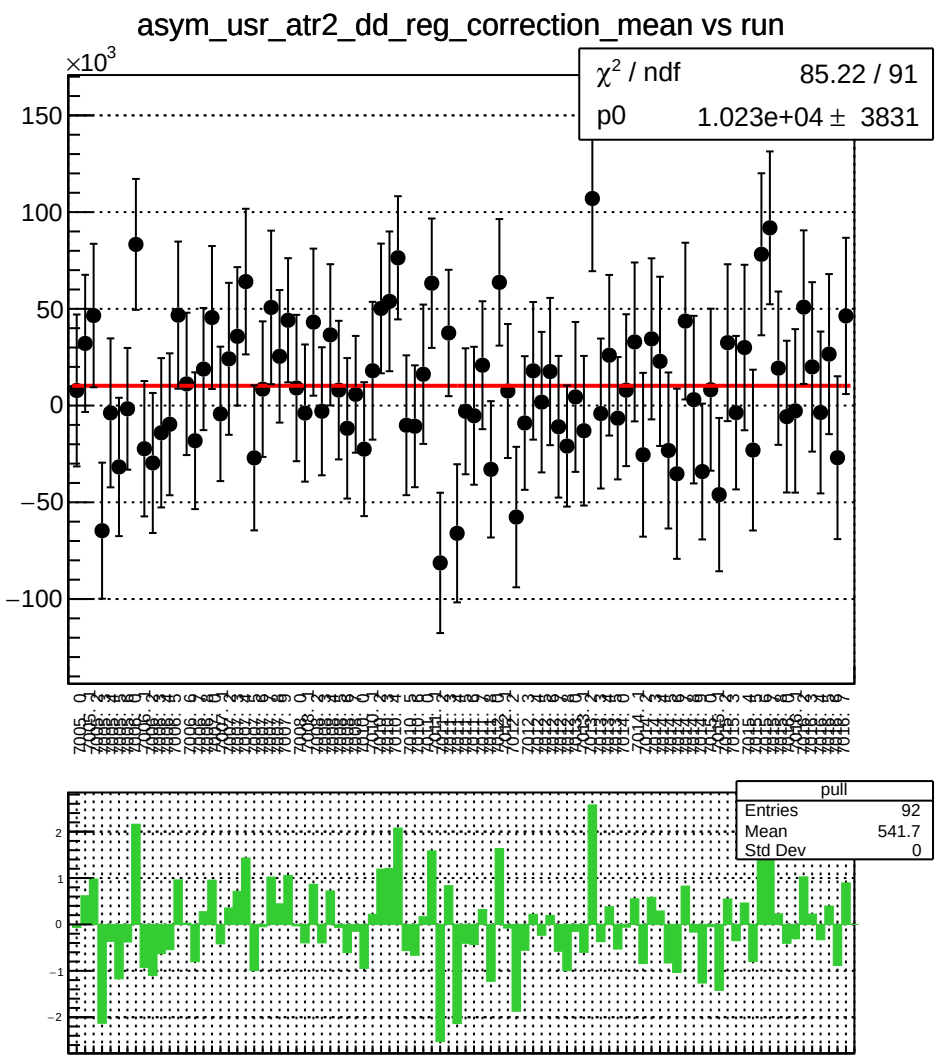

pull1D
Entries 92
Mean 0.135
Std Dev 1.069

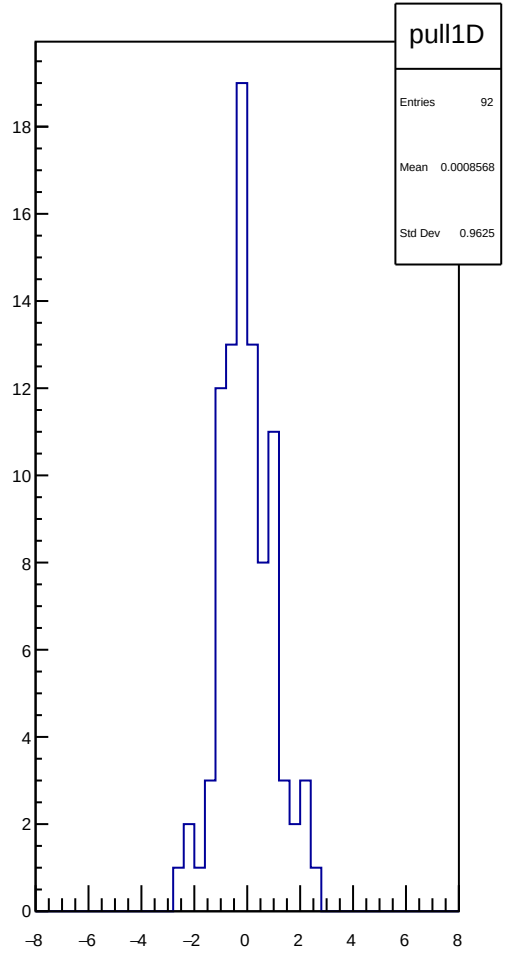

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.884e+05 / 91
p0 7.12e−11 ± 6.428e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

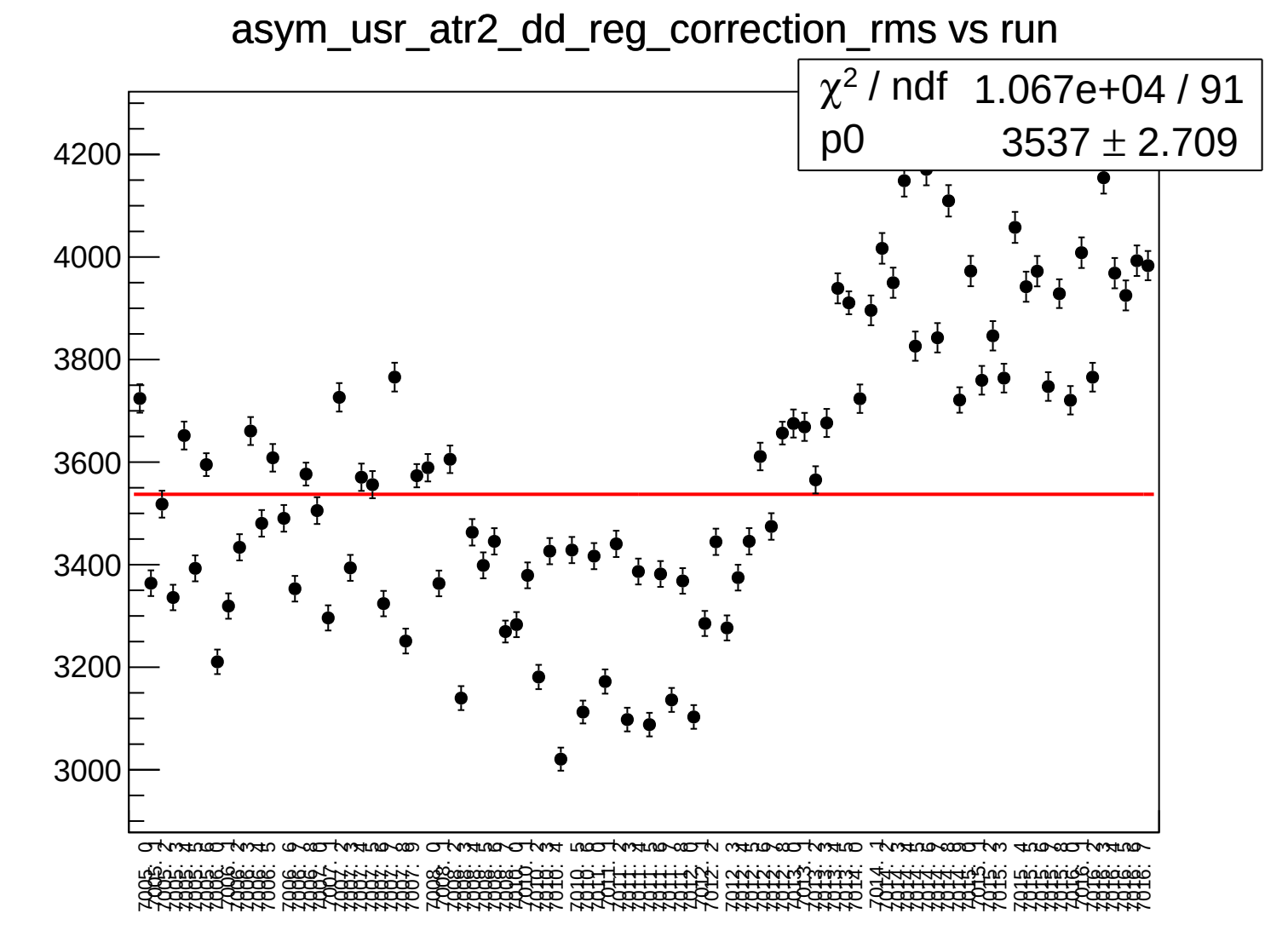

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 95.46 / 91
p0 3345 ± 1161
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −78.5
Std Dev 0
3
2
1
0
−1
−2
−3

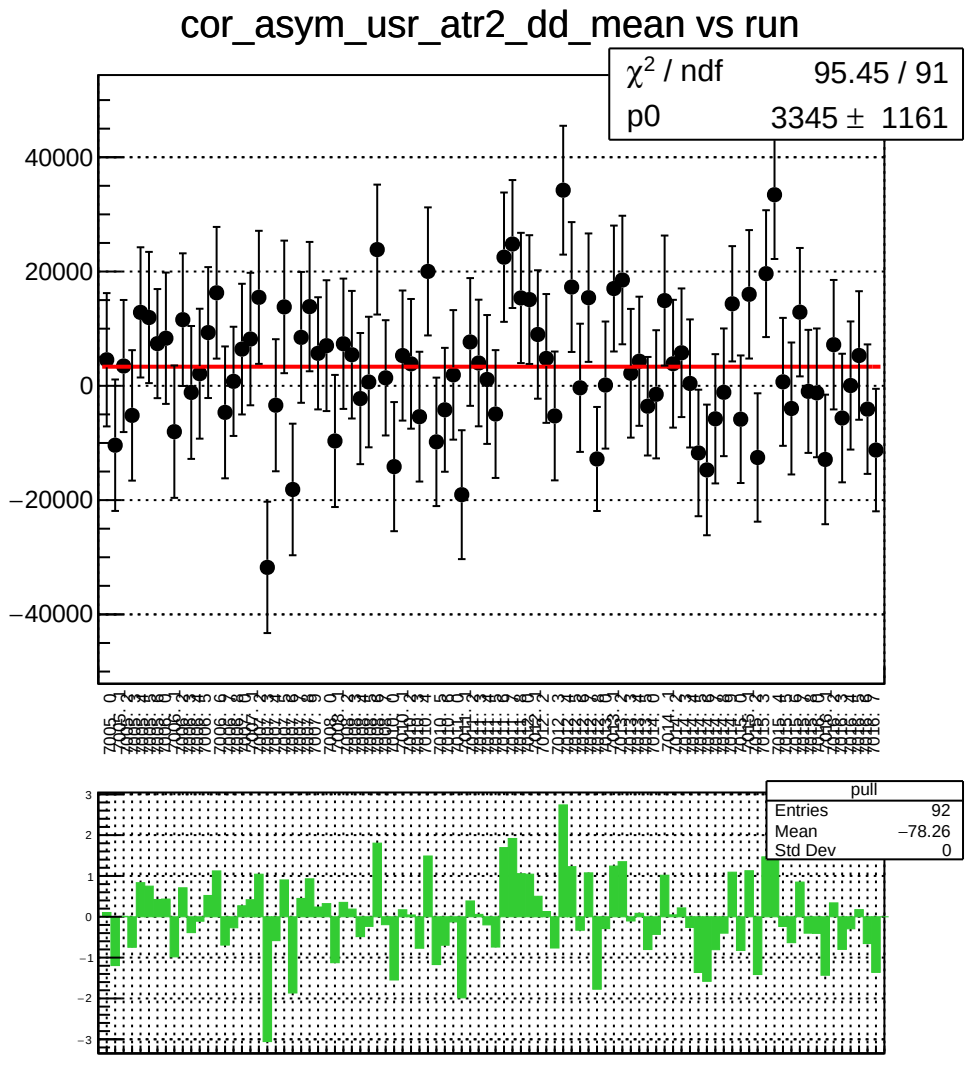

pull1D
Entries 92
Mean 0.005622
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

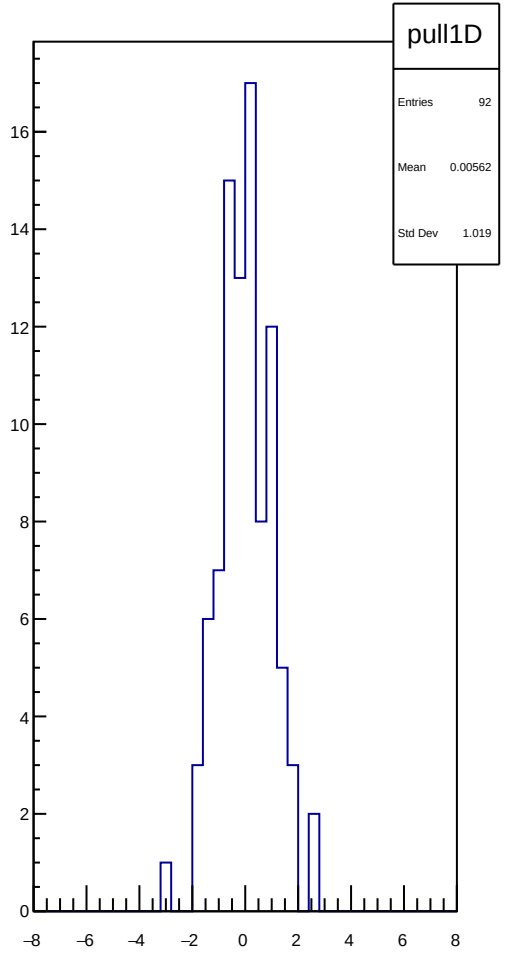

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 285.7 / 91
p0 1076 ± 0.8213
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030

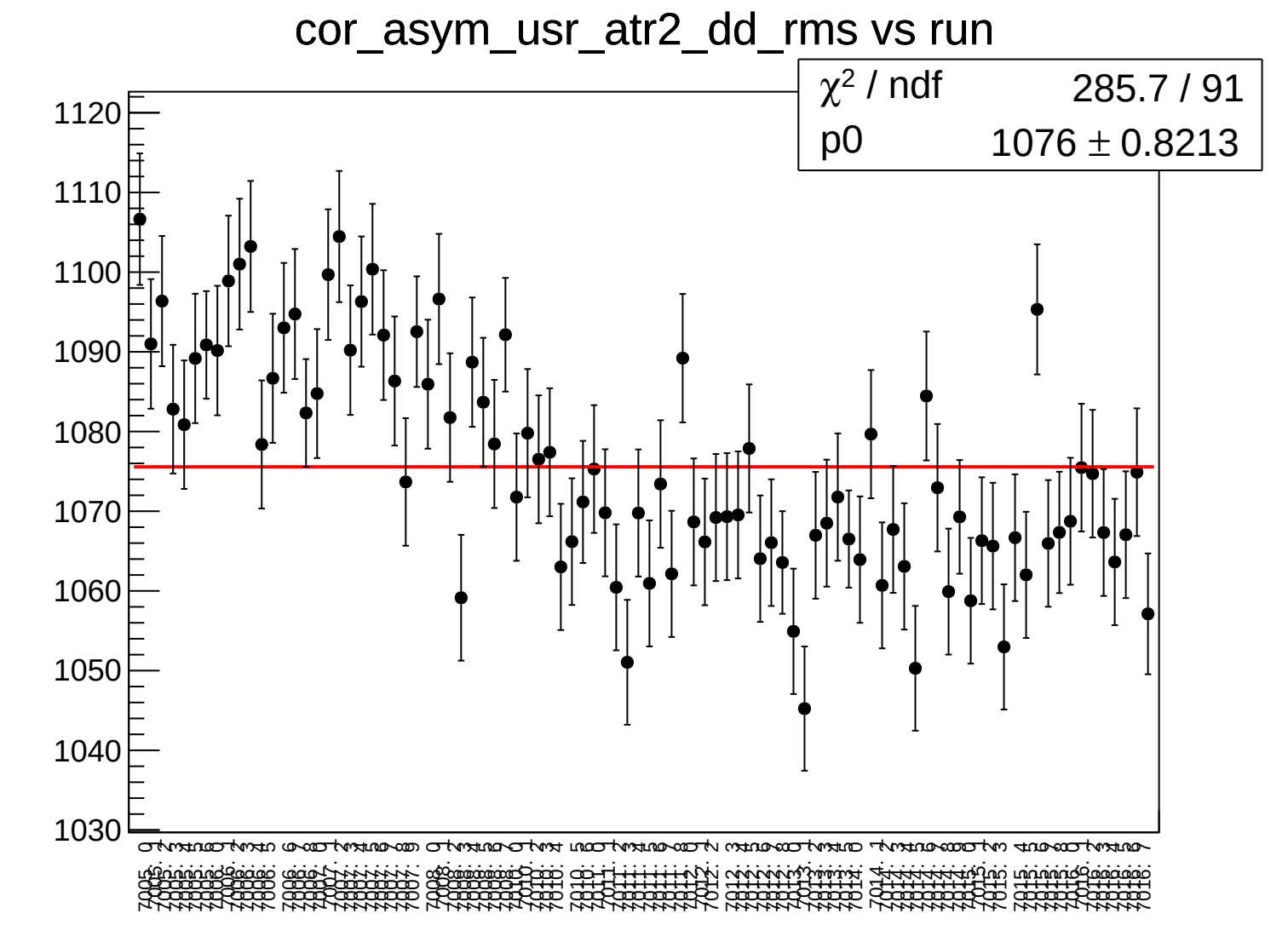

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.22 / 91
p0 1.023e+04 ± 3831
150
100
50
0
−50
−100
pull
Entries 92
Mean 541.7
Std Dev 0
2
1
0
−1
−2

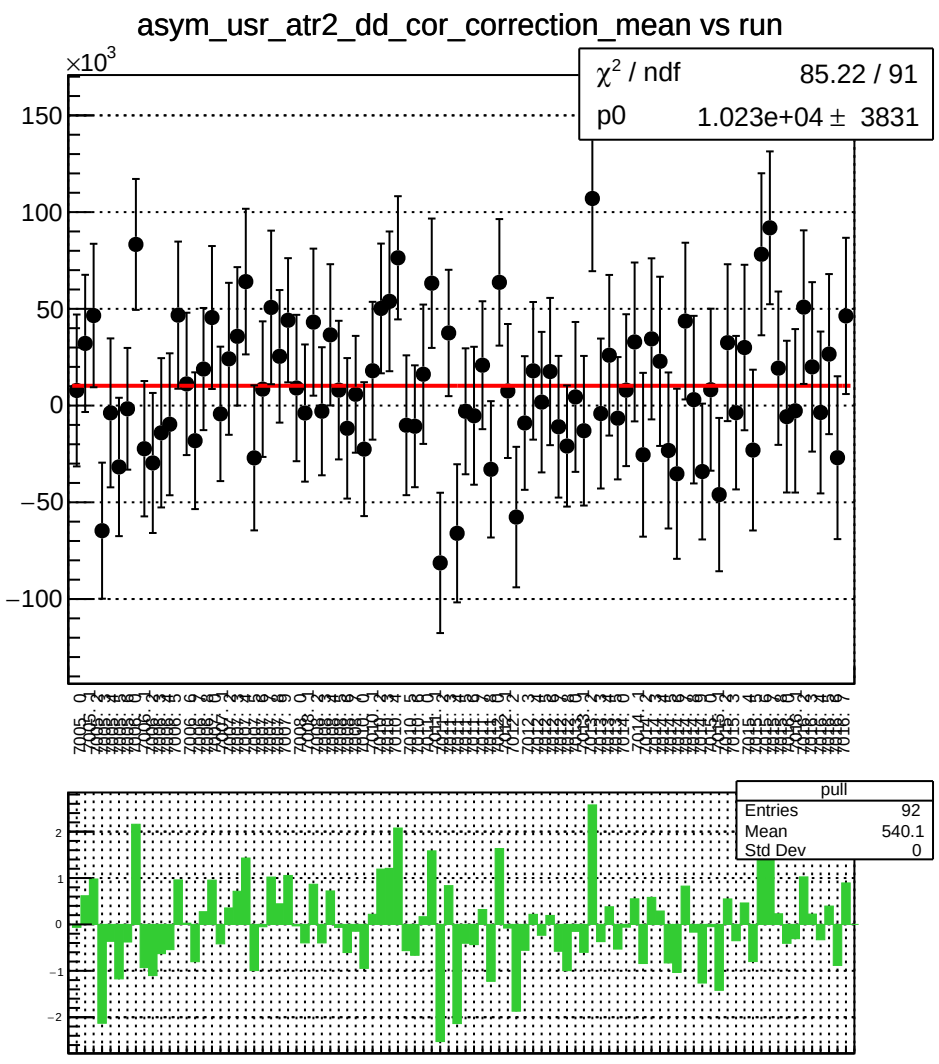

pull1D
Entries 92
Mean 0.0008568
Std Dev 0.9625
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

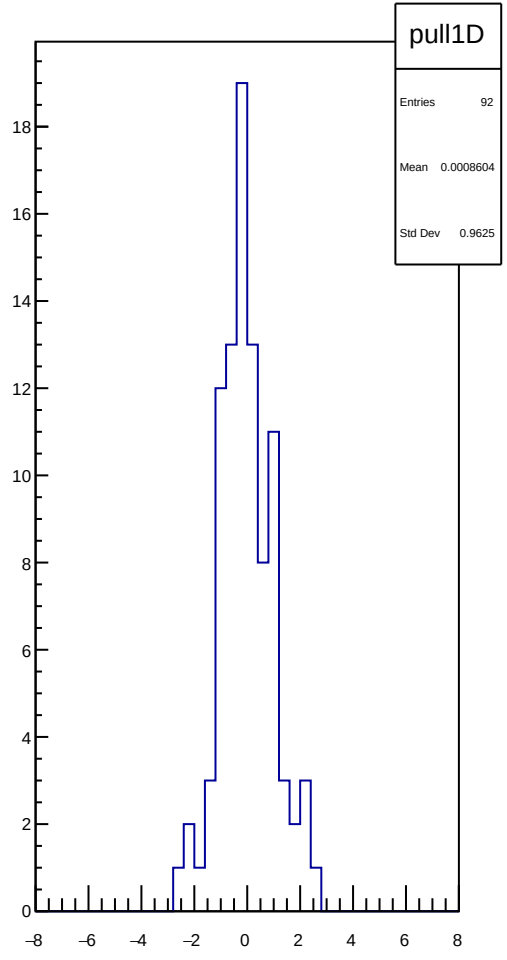

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 1.067e+04 / 91
p0 3537 ± 2.709
4200
4000
3800
3600
3400
3200
3000

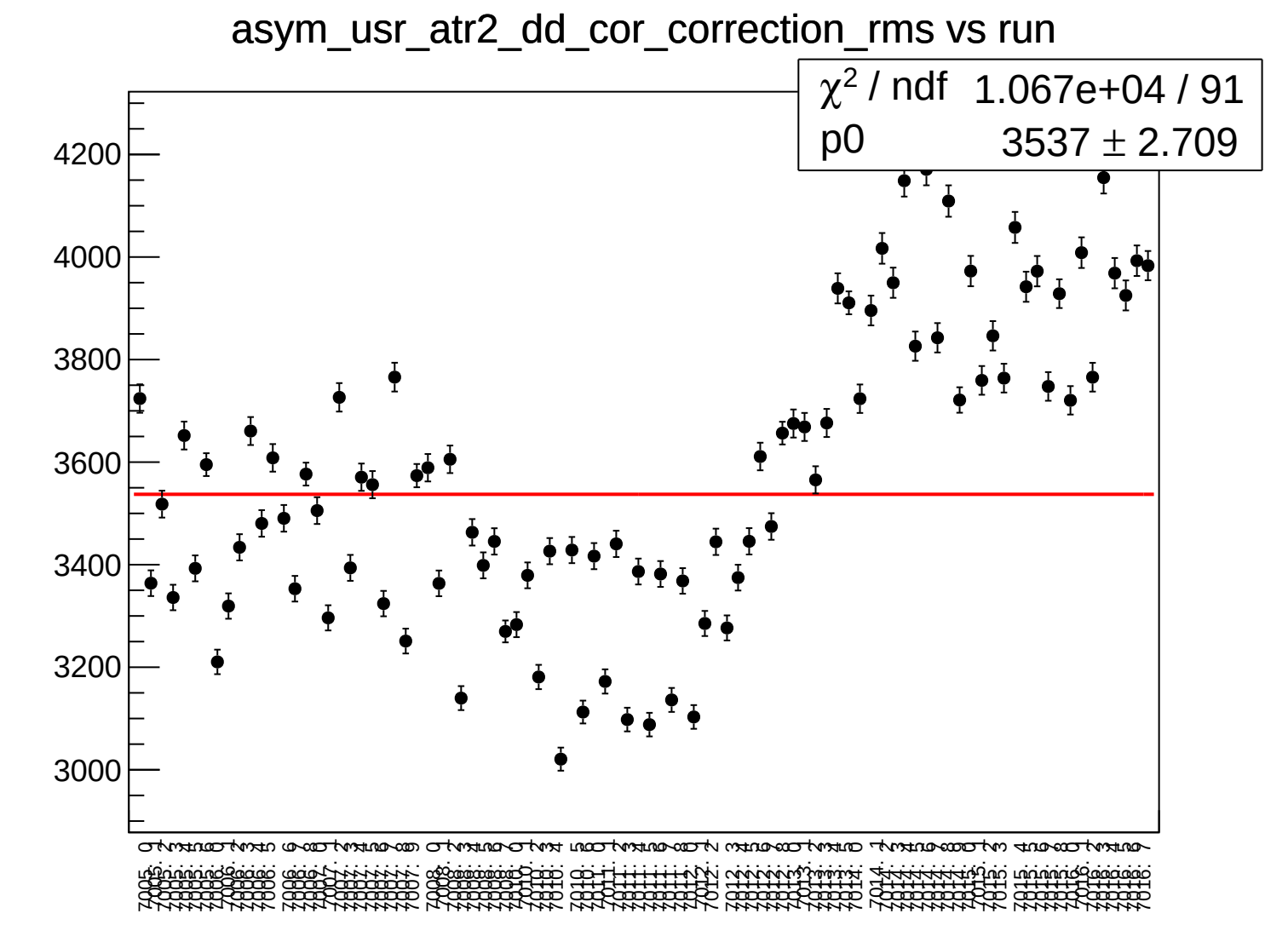

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 95.45 / 91
p0 3345 ± 1161
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −78.26
Std Dev 0
3
2
1
0
−1
−2
−3

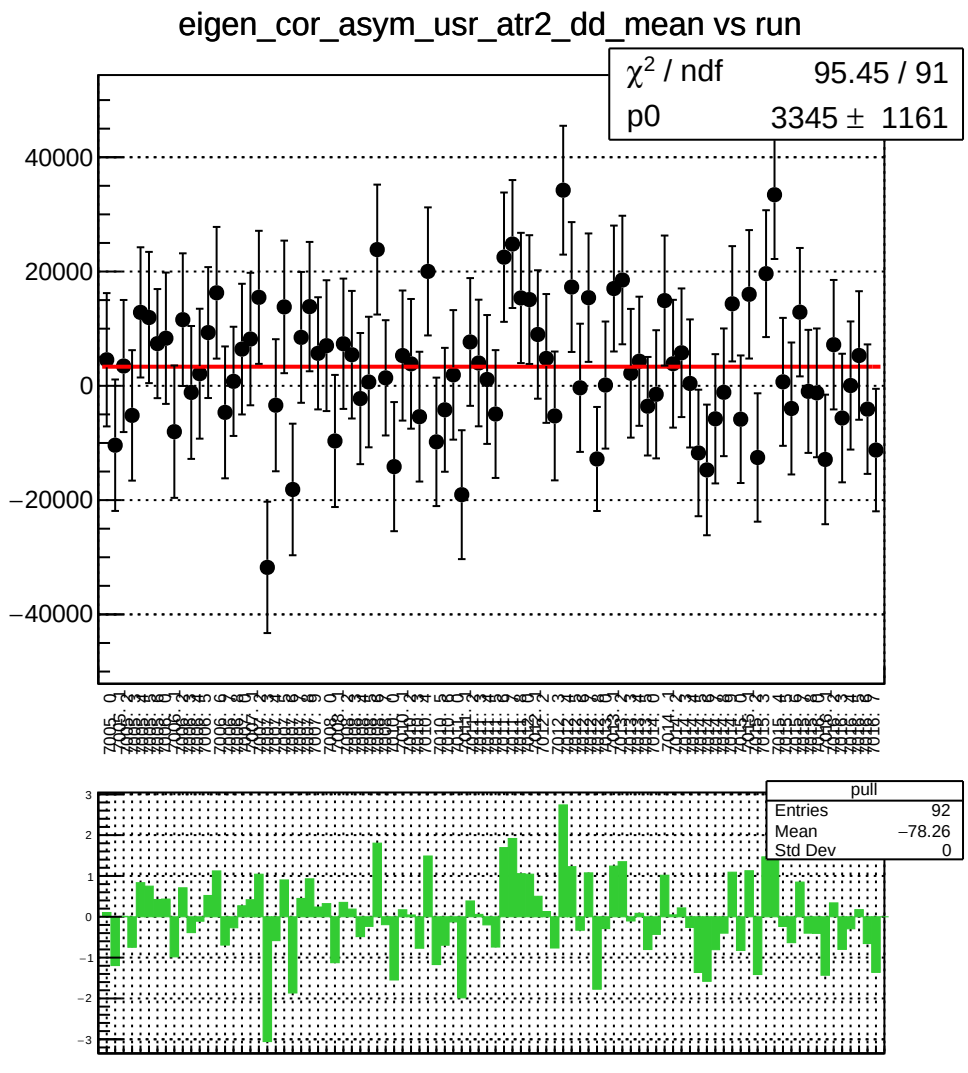

pull1D
Entries 92
Mean 0.00562
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

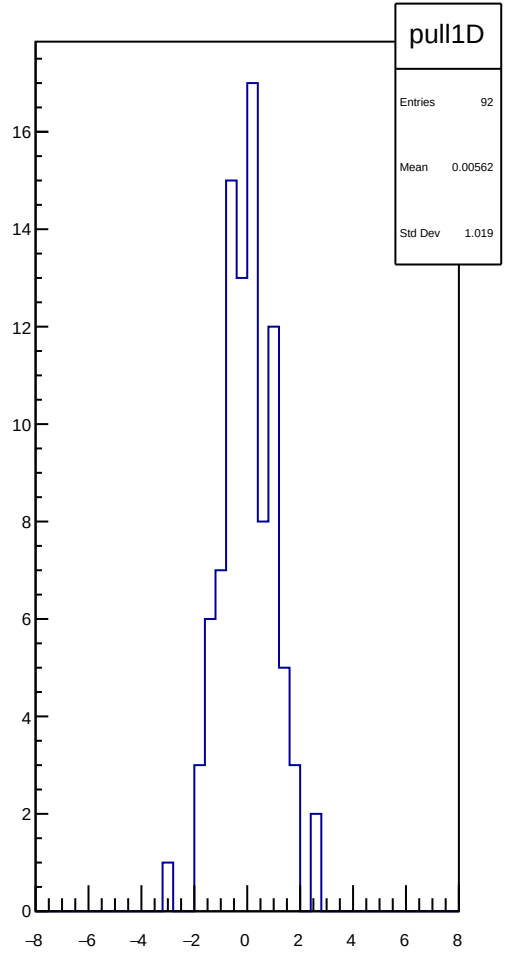

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 285.7 / 91
p0 1076 ± 0.8213
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030

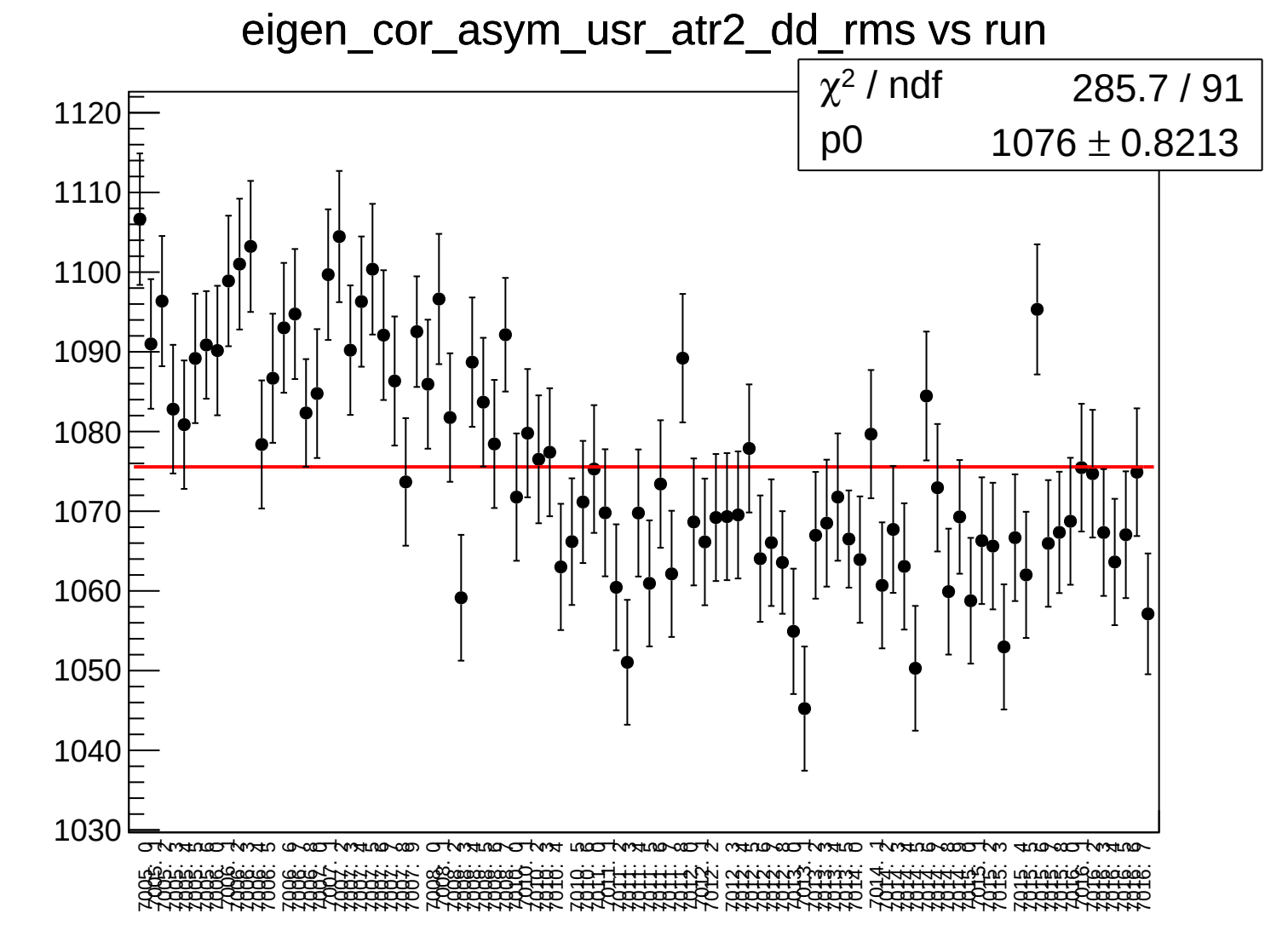

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.22 / 91
p0 1.023e+04 ± 3831
150
100
50
0
−50
−100
pull
Entries 92
Mean 540.1
Std Dev 0
2
1
0
−1
−2

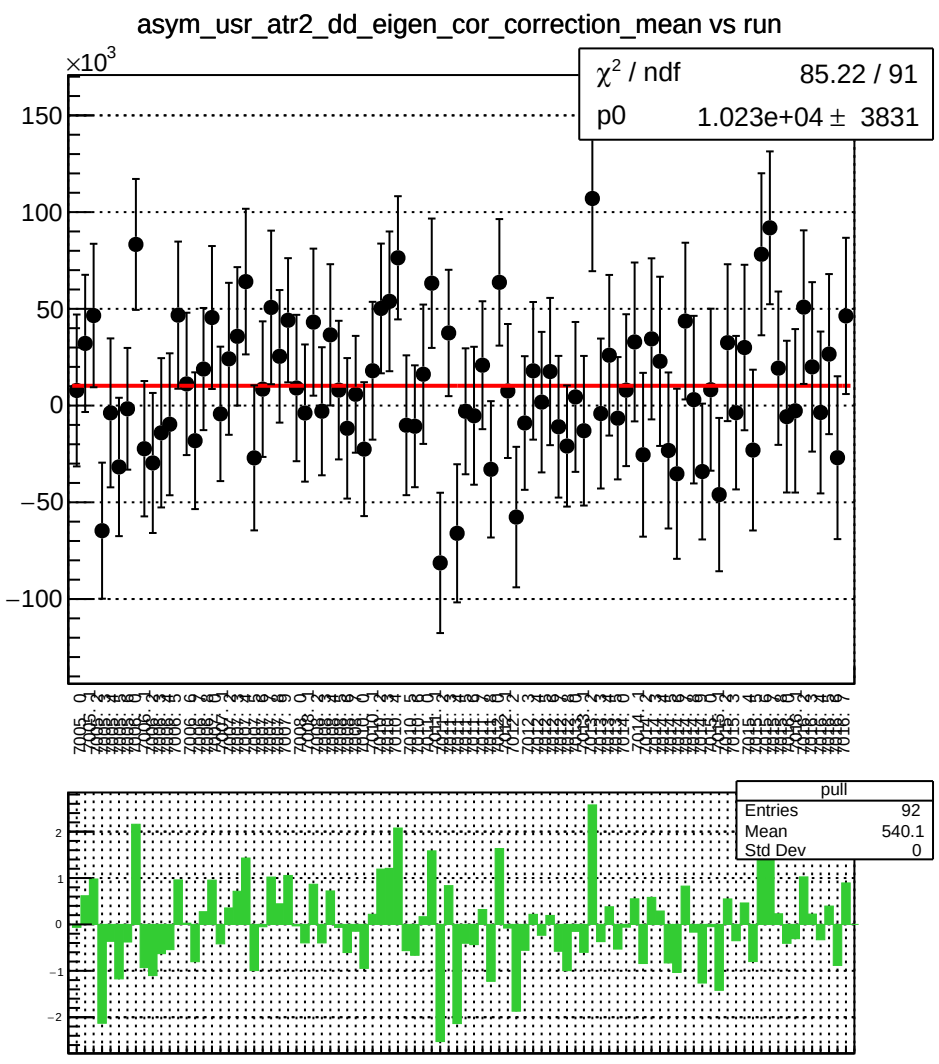

pull1D
Entries 92
Mean 0.0008604
Std Dev 0.9625
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

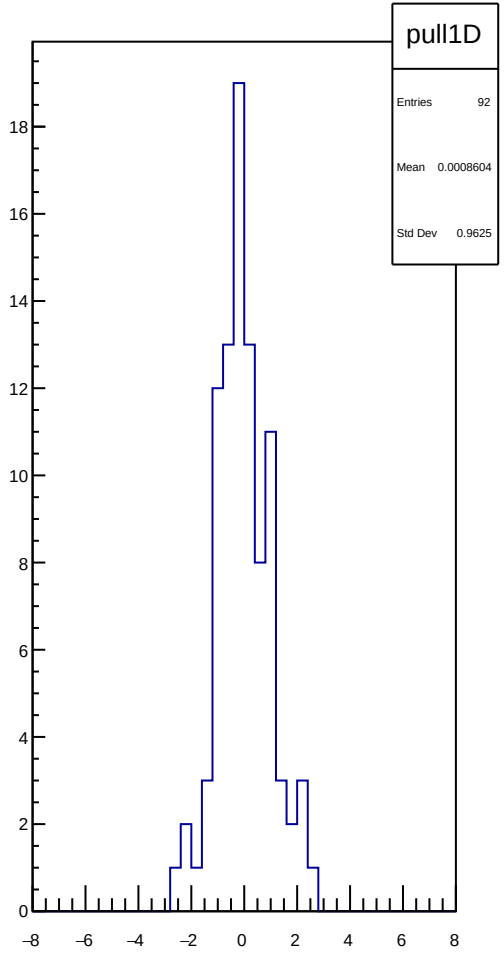

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 1.067e+04 / 91
p0 3537 ± 2.709
4200
4000
3800
3600
3400
3200
3000

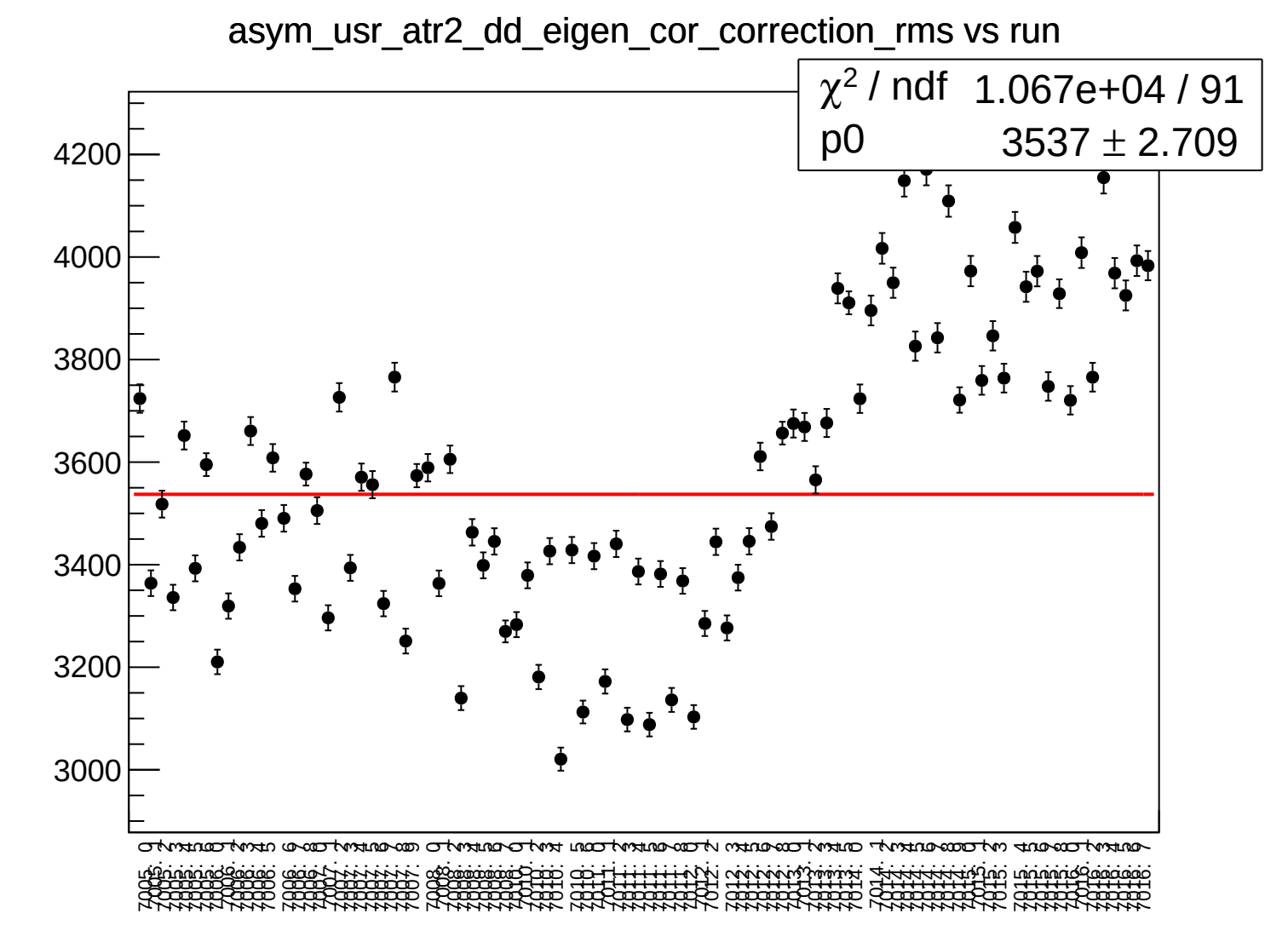

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 95.45 / 91
p0 3345 ± 1161
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −78.26
Std Dev 0
3
2
1
0
−1
−2
−3

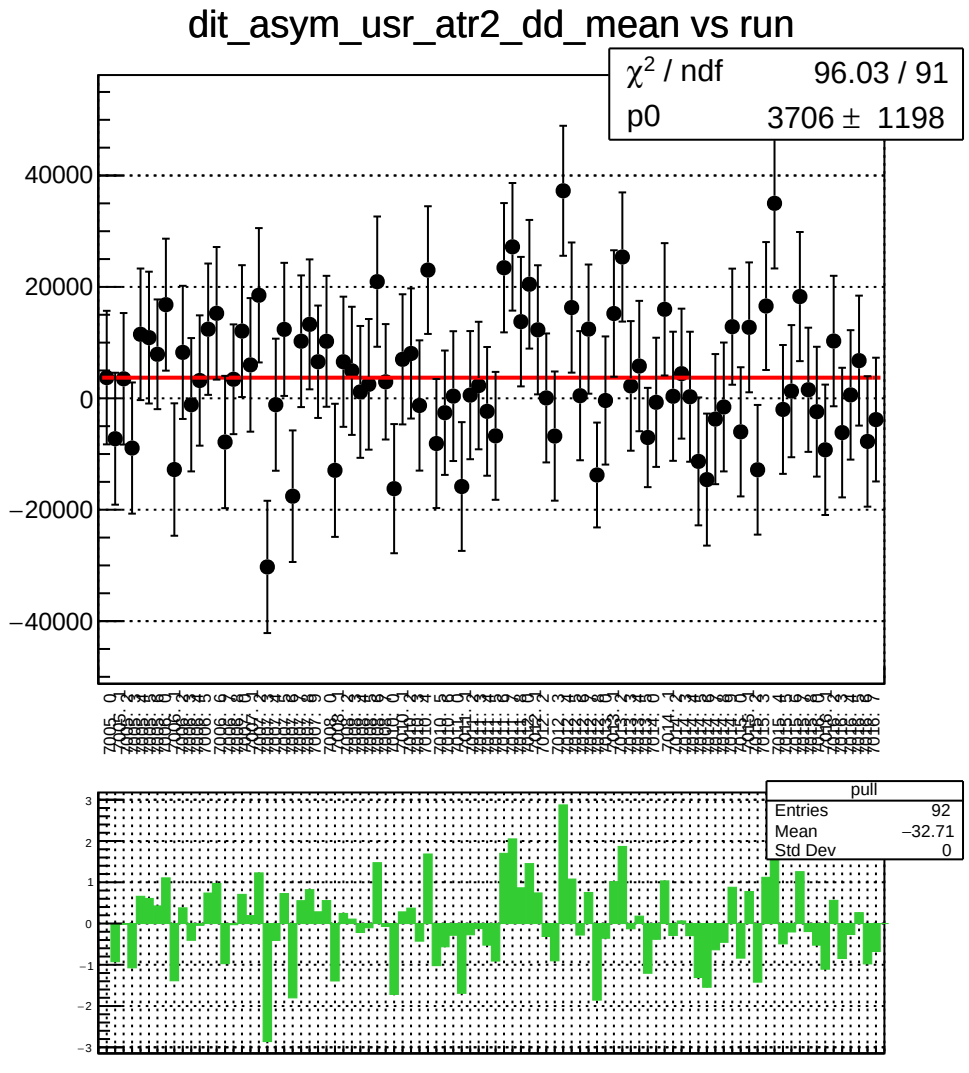

pull1D
Entries 92
Mean 0.00562
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

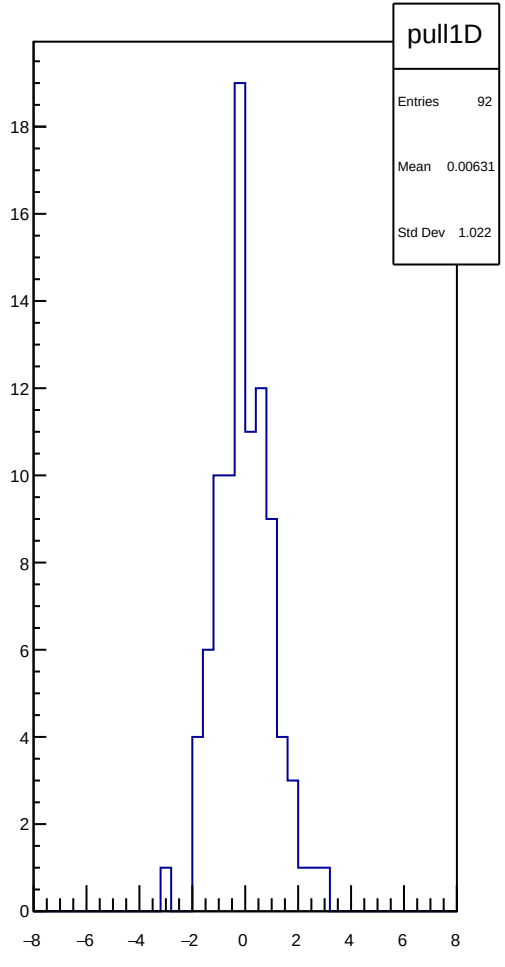

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 285.7 / 91
p0 1076 ± 0.8213
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030

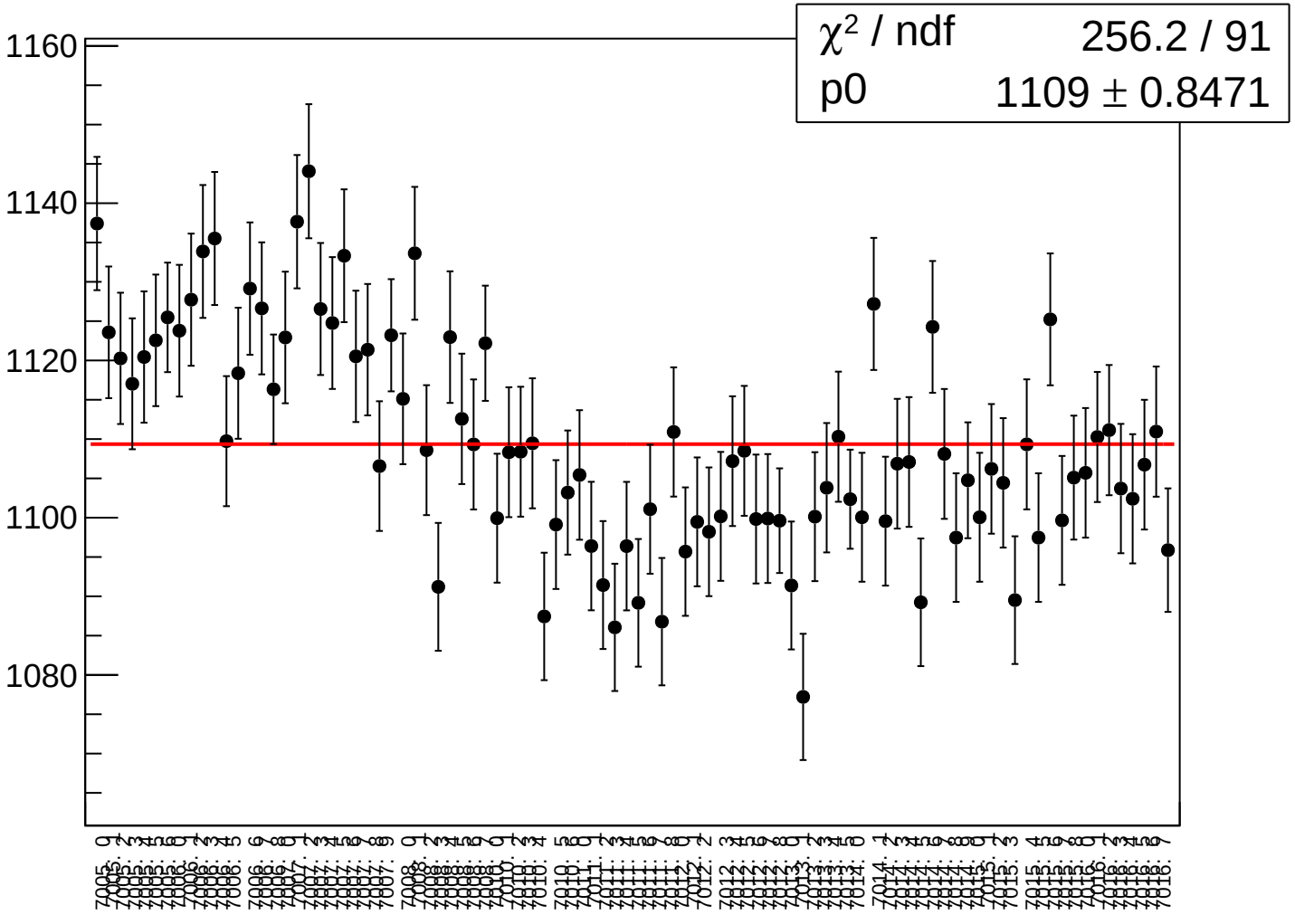

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.22 / 91
p0 1.023e+04 ± 3831
150
100
50
0
−50
−100
pull
Entries 92
Mean 540.1
Std Dev 0
2
1
0
−1
−2

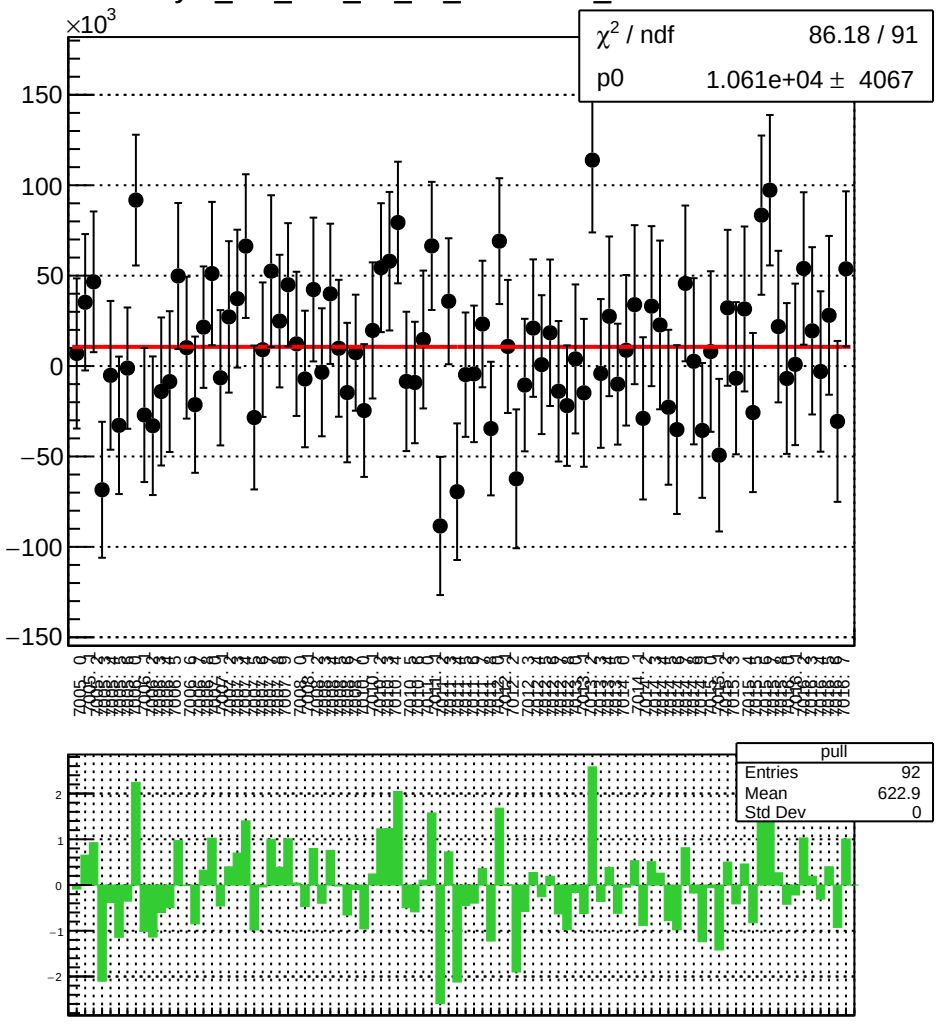

pull1D
Entries 92
Mean 0.0008604
Std Dev 0.9625
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

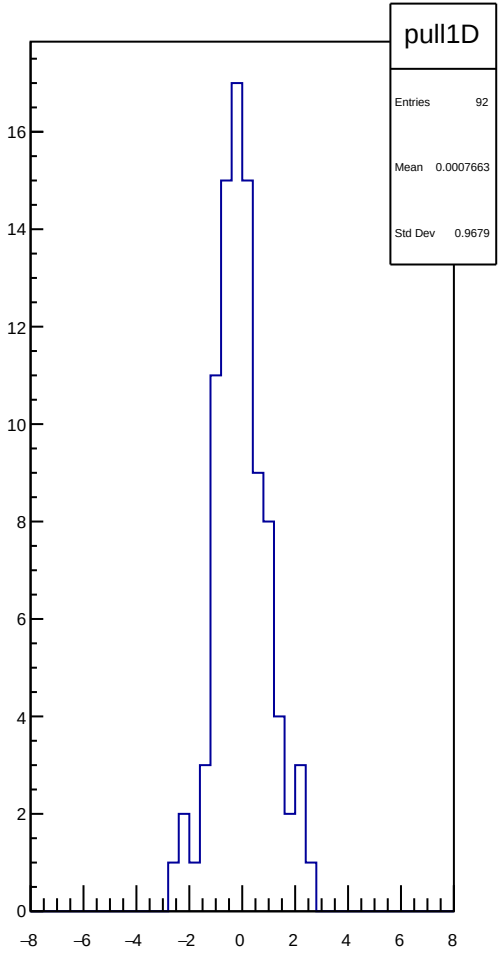

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.067e+04 / 91
p0 3537 ± 2.709
4200
4000
3800
3600
3400
3200
3000

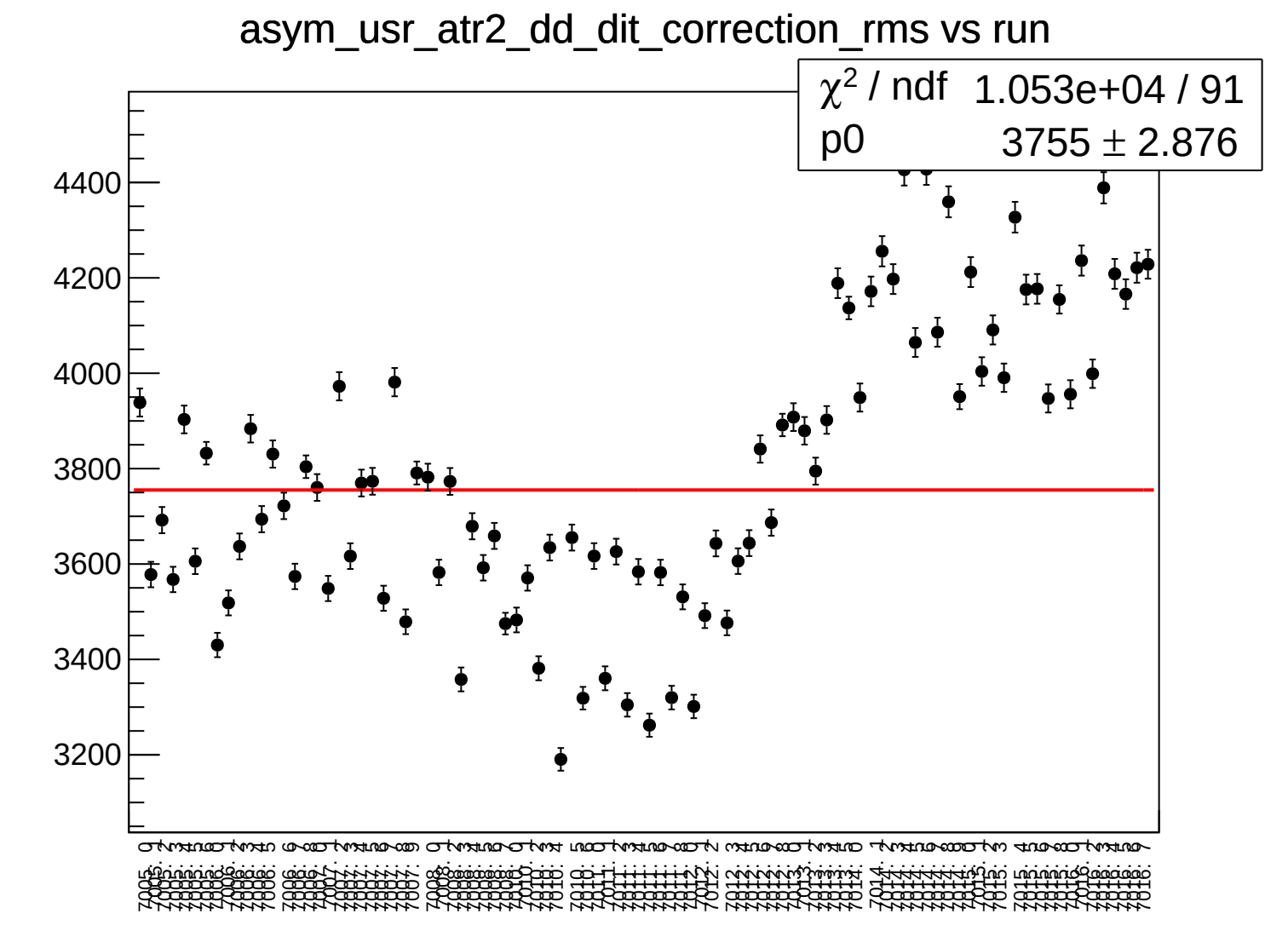

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 96.03 / 91
p0 3706 ± 1198
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −32.71
Std Dev 0
3
2
1
0
−1
−2
−3

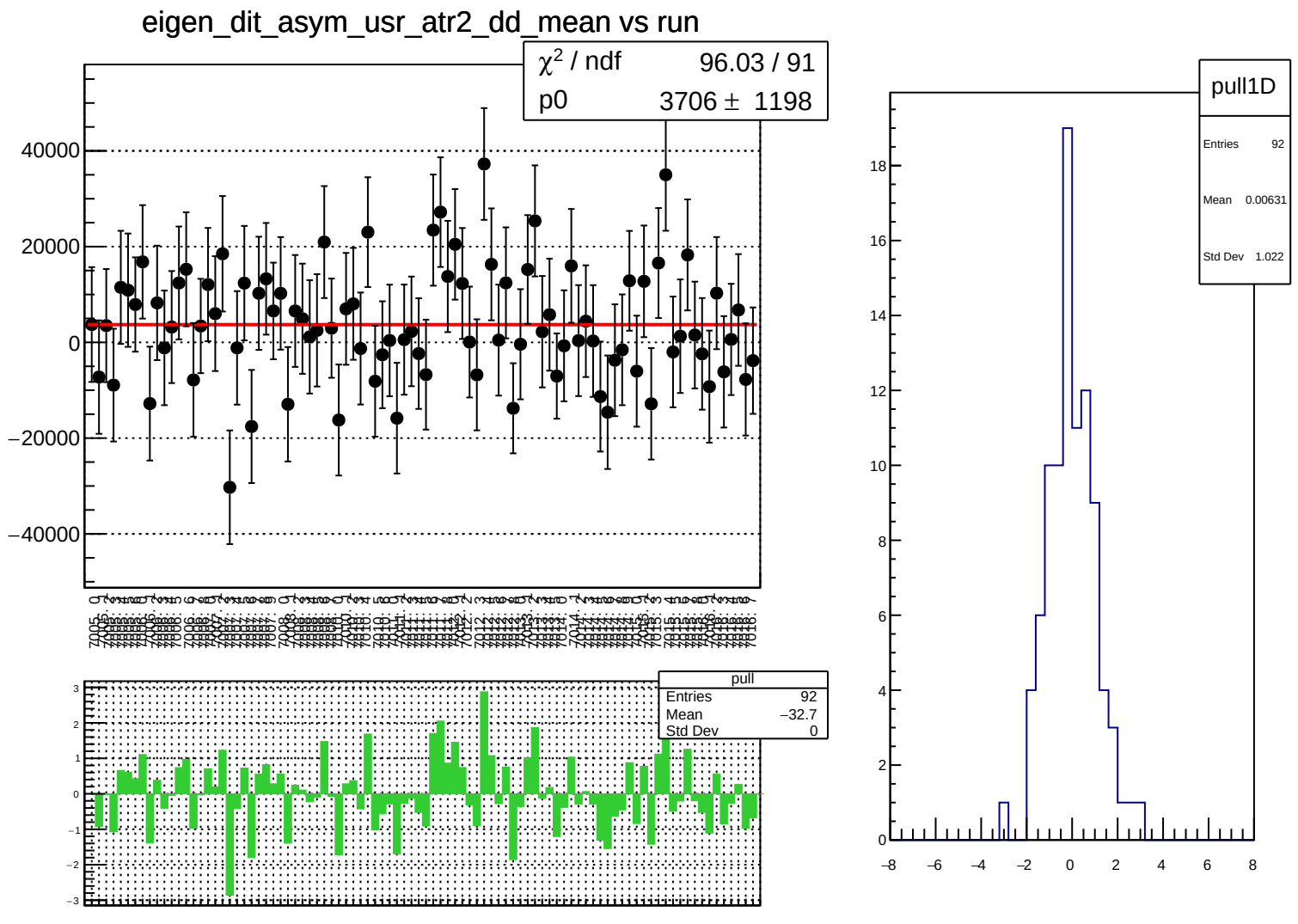

pull1D
Entries 92
Mean 0.00631
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

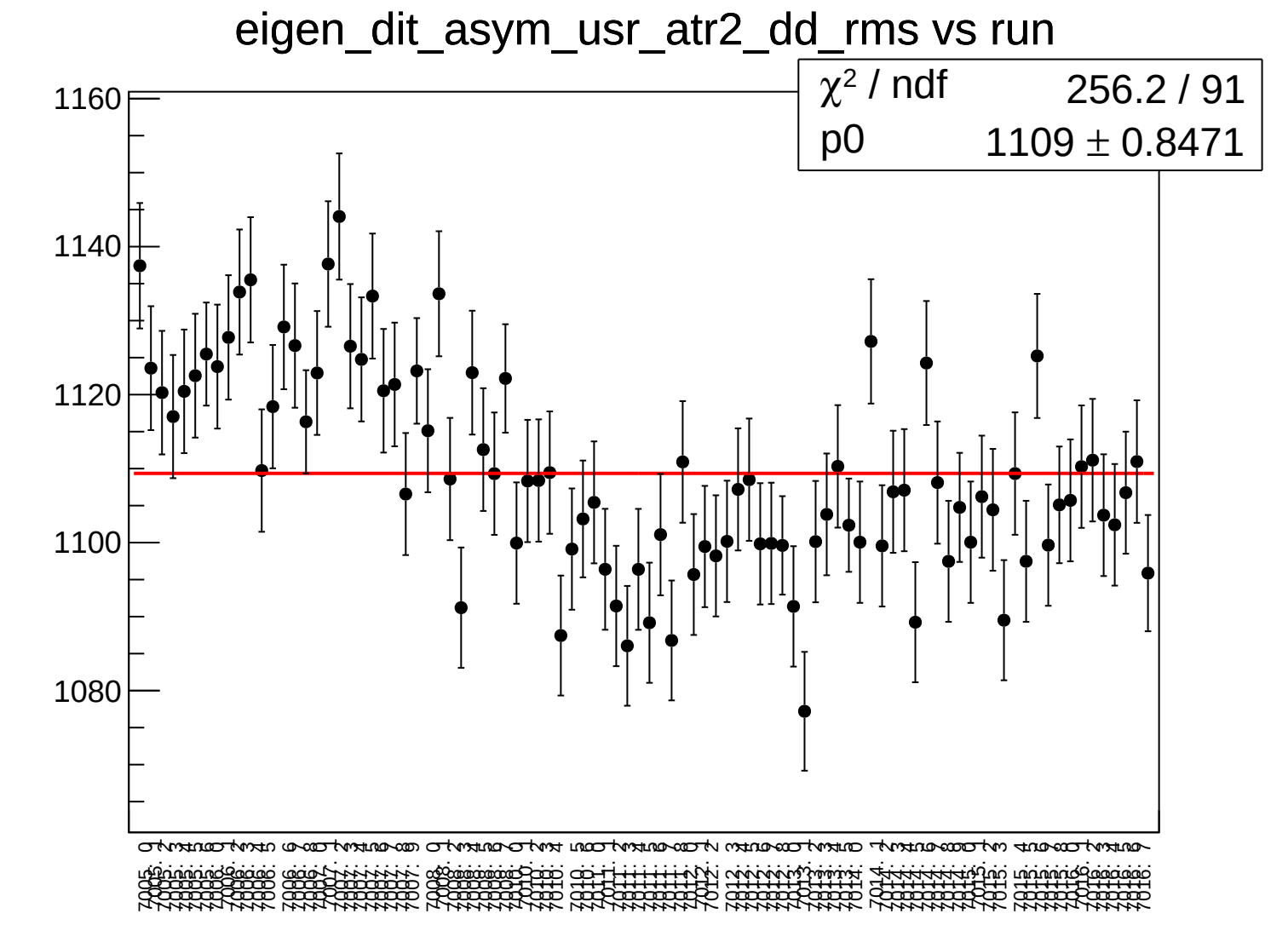

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 256.2 / 91
p0 1109 ± 0.8471
1160
1140
1120
1100
1080

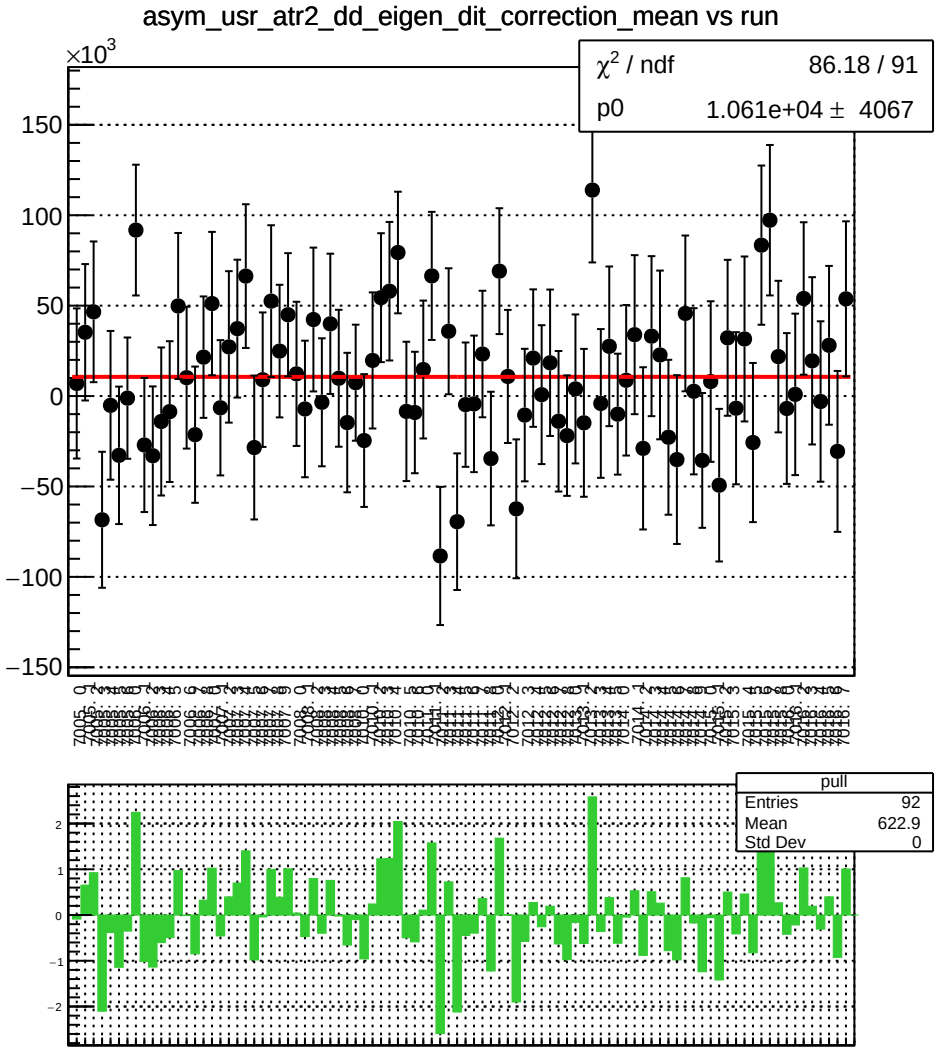

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.18 / 91
p0 1.061e+04 ± 4067
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 622.9
Std Dev 0
2
1
0
−1
−2

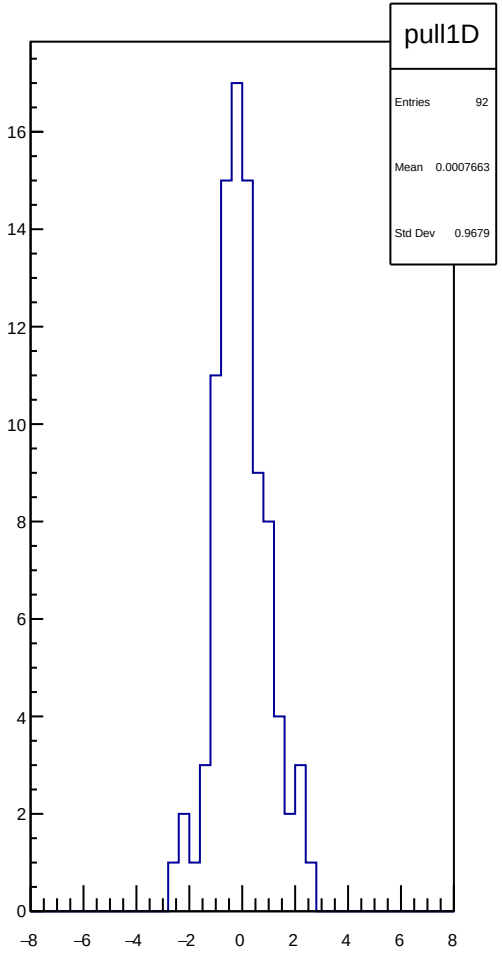

pull1D
Entries 92
Mean 0.0007663
Std Dev 0.9679
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

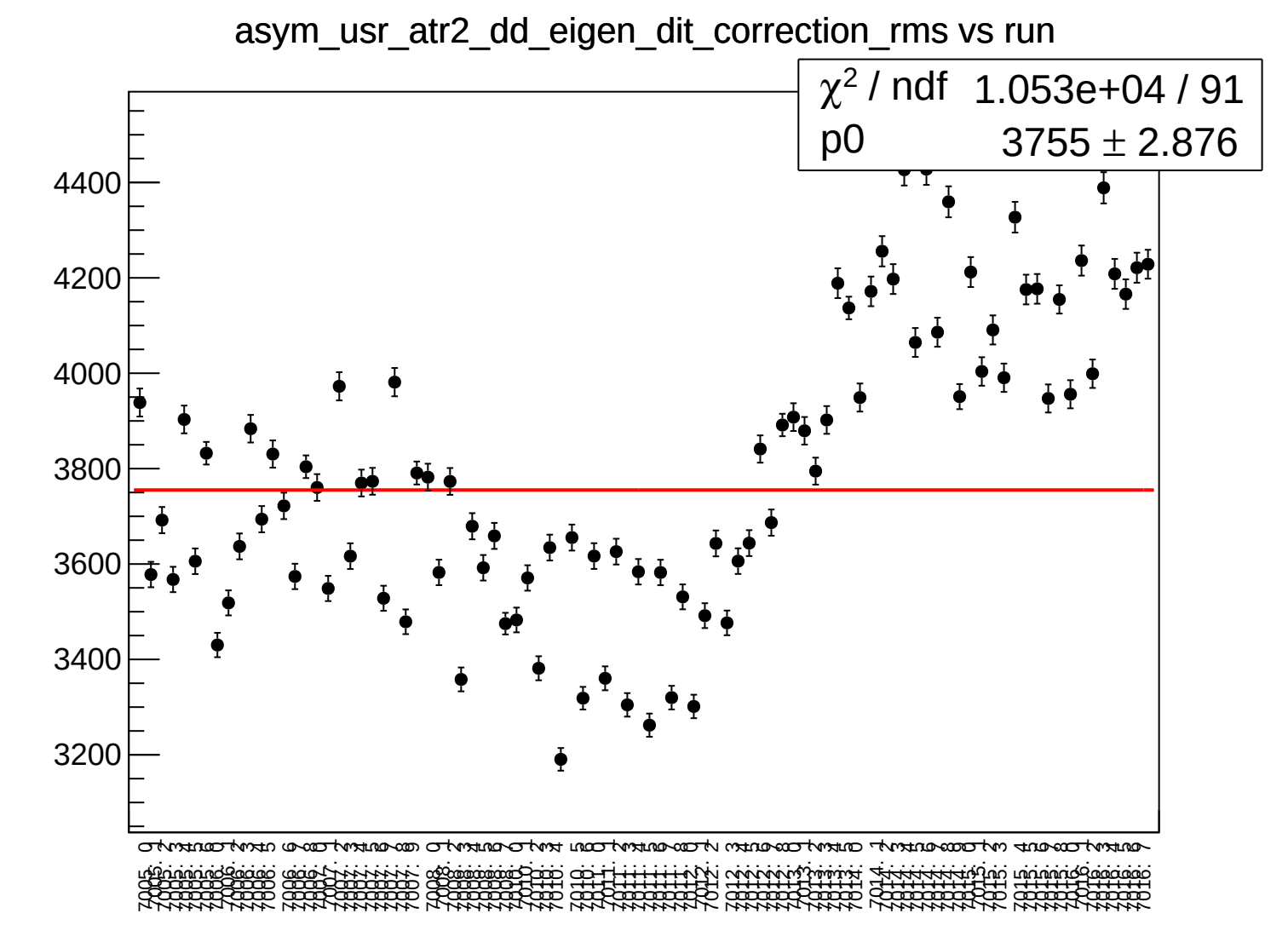

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.053e+04 / 91
p0 3755 ± 2.876
4400
4200
4000
3800
3600
3400
3200

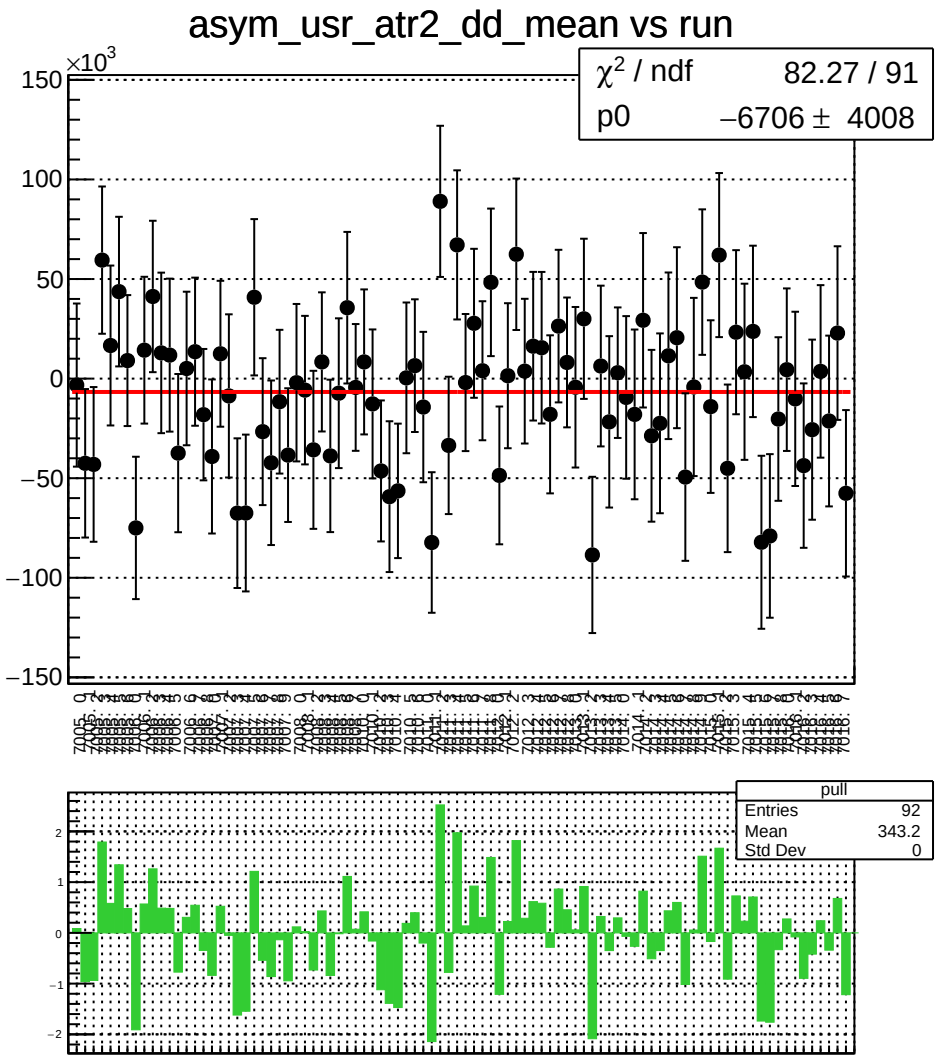

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 96.03 / 91
p0 3706 ± 1198
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −32.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.00631
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

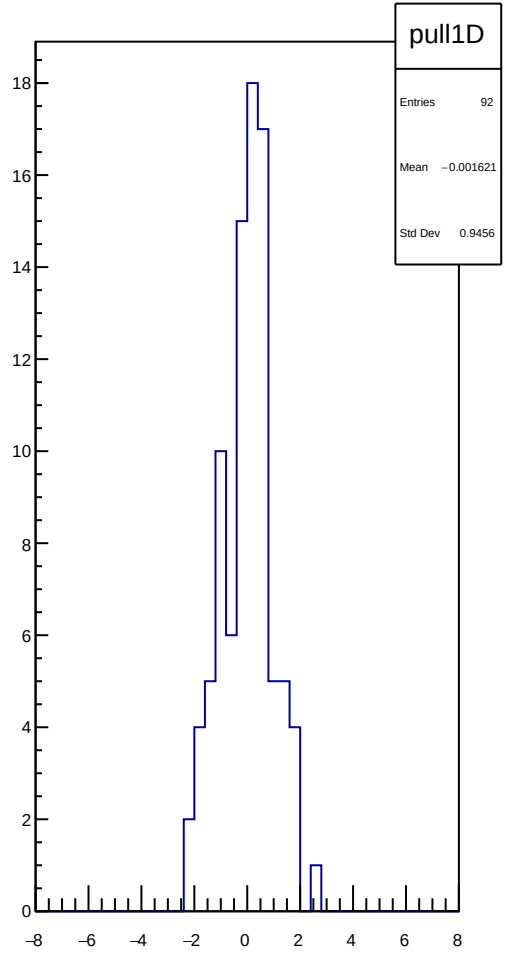

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 256.2 / 91
p0 1109 ± 0.8471
1160
1140
1120
1100
1080

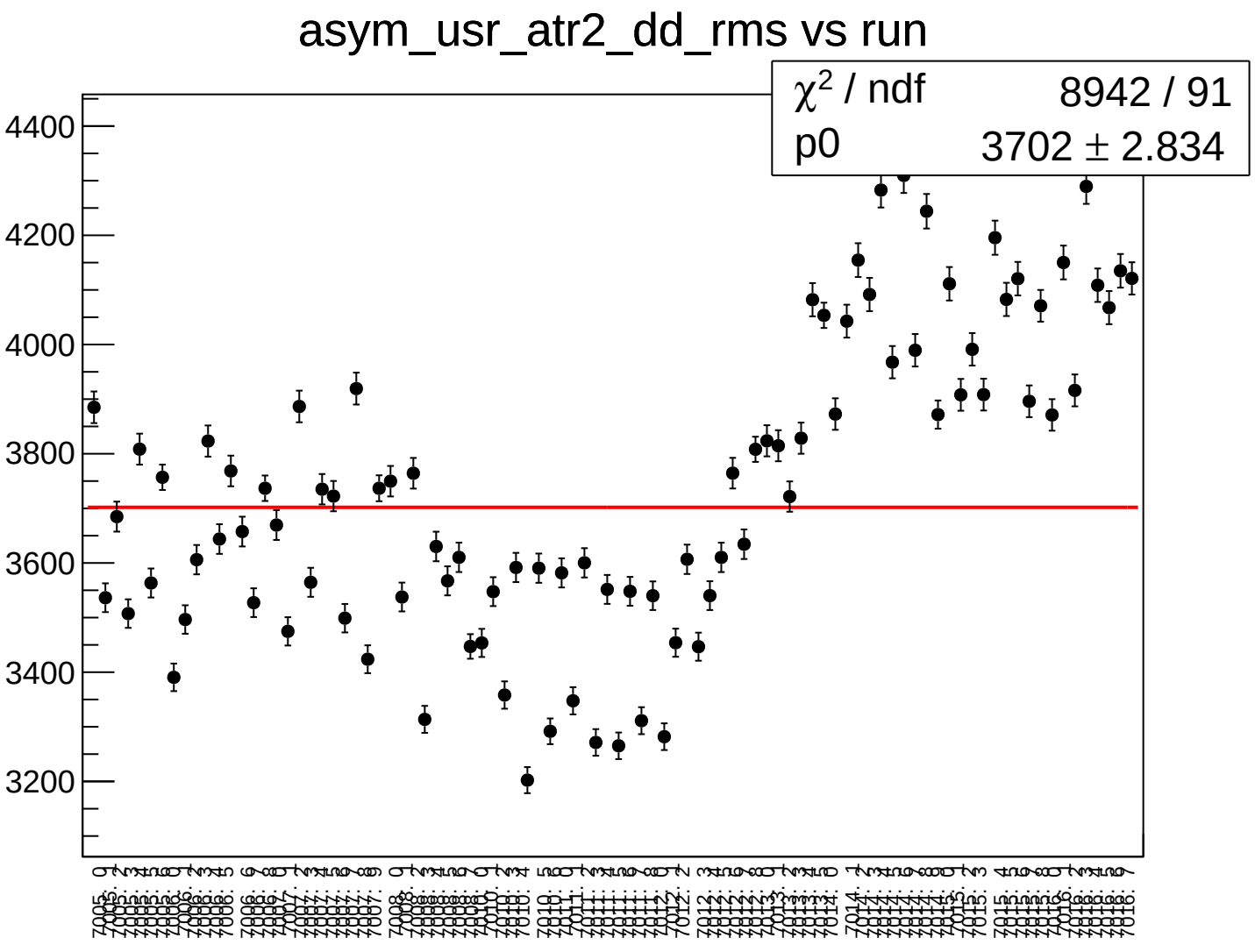

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.18 / 91
p0 1.061e+04 ± 4067
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 622.9
Std Dev 0
2
1
0
−1
−2

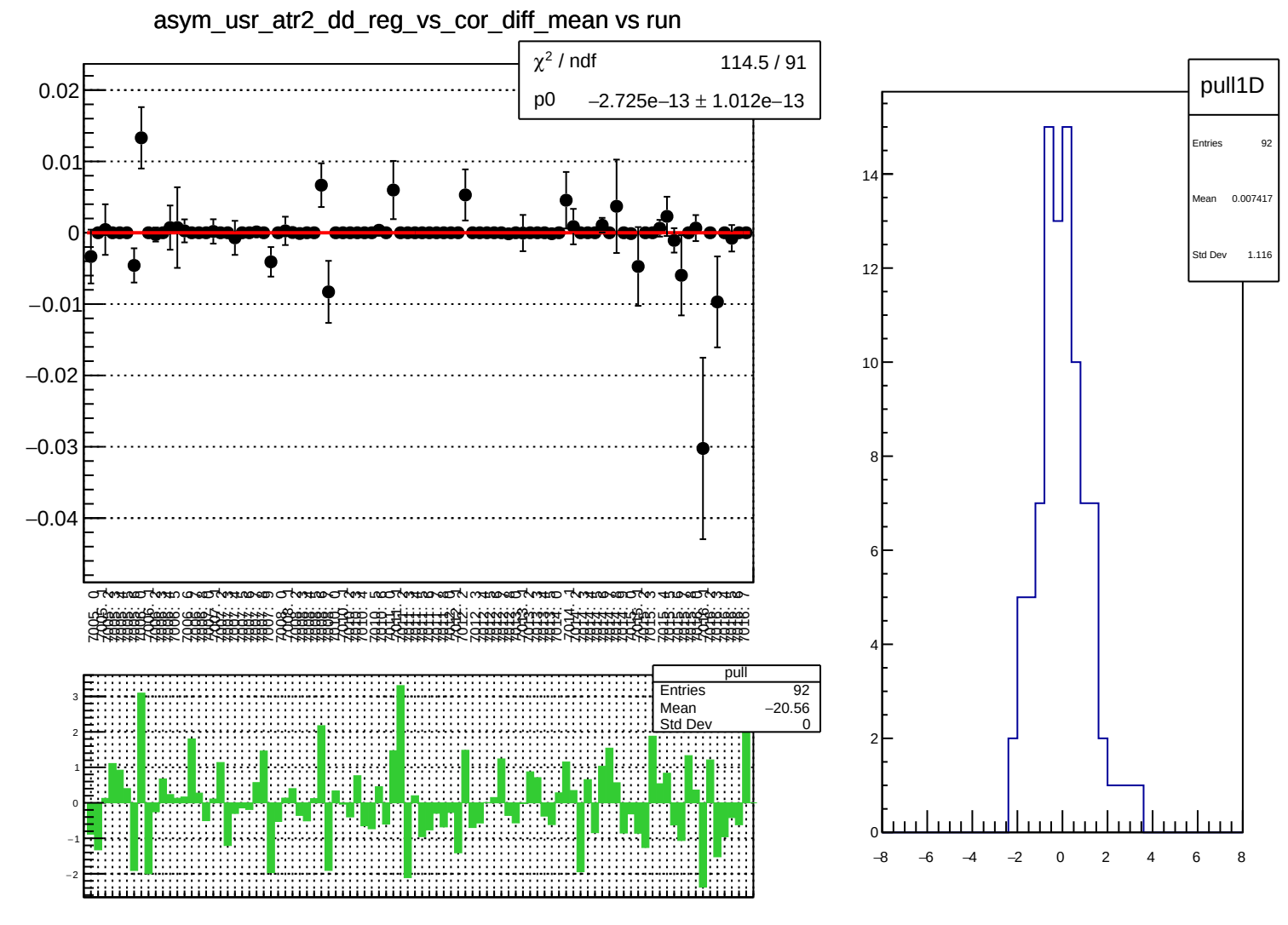

pull1D
Entries 92
Mean 0.0007663
Std Dev 0.9679
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

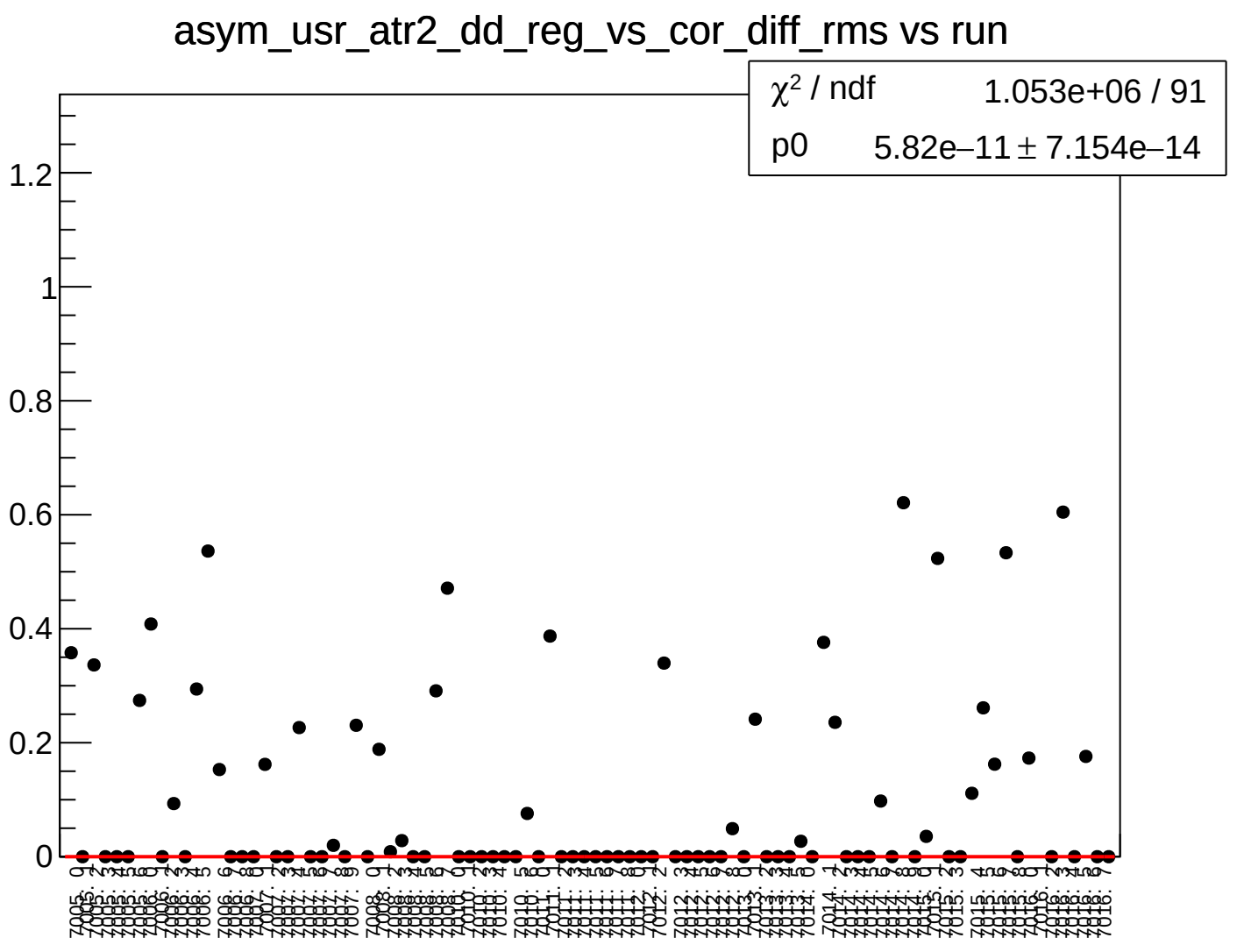

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.053e+04 / 91
p0 3755 ± 2.876
4400
4200
4000
3800
3600
3400
3200

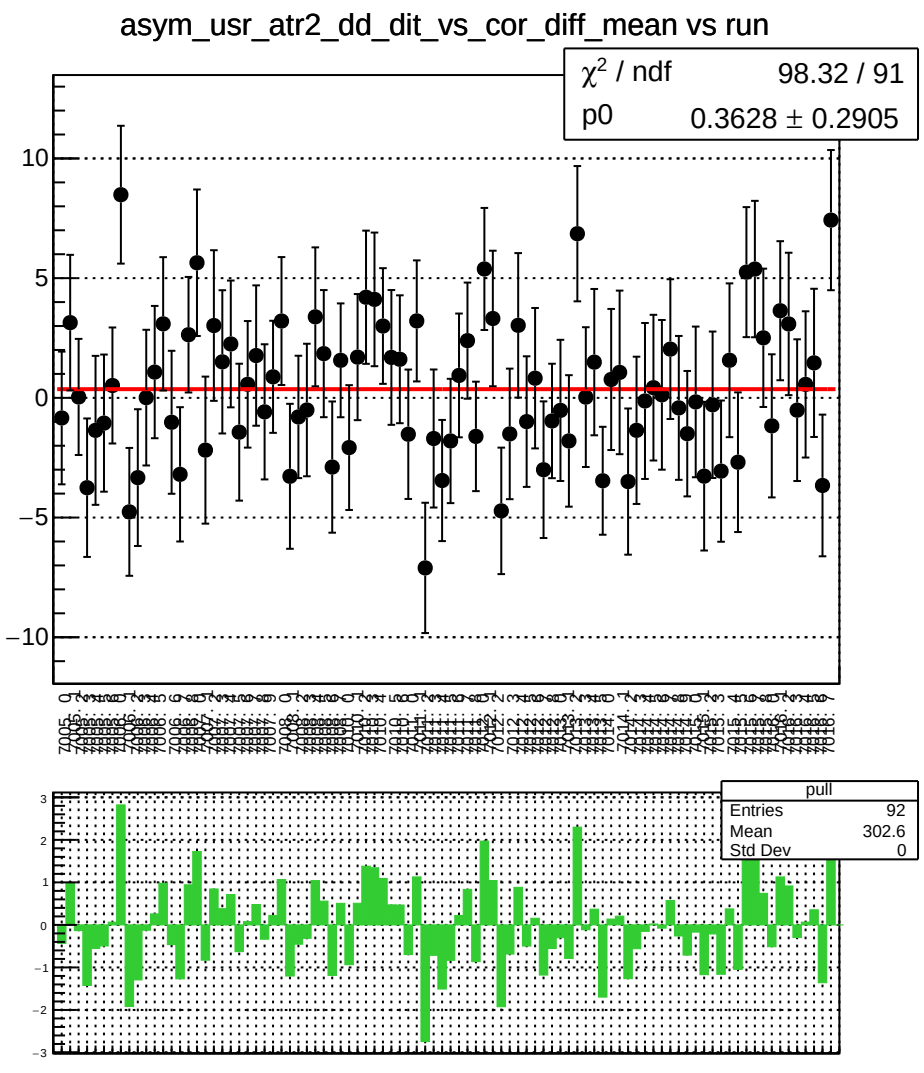

asym_usr_atr2_dd_mean vs run
$\chi^2$ / ndf 82.27 / 91
p0 −6706 ± 4008
×10^3
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 343.2
Std Dev 0
2
1
0
−1
−2

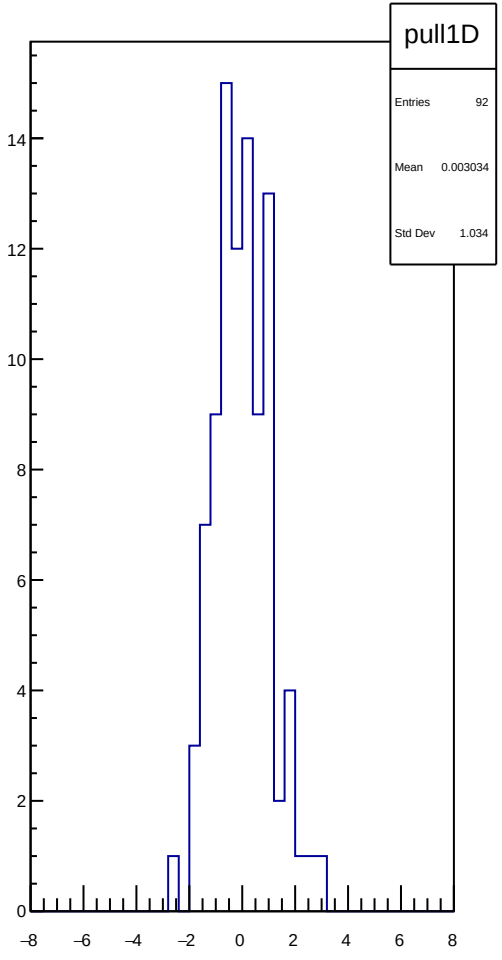

pull1D
Entries 92
Mean −0.001621
Std Dev 0.9456
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

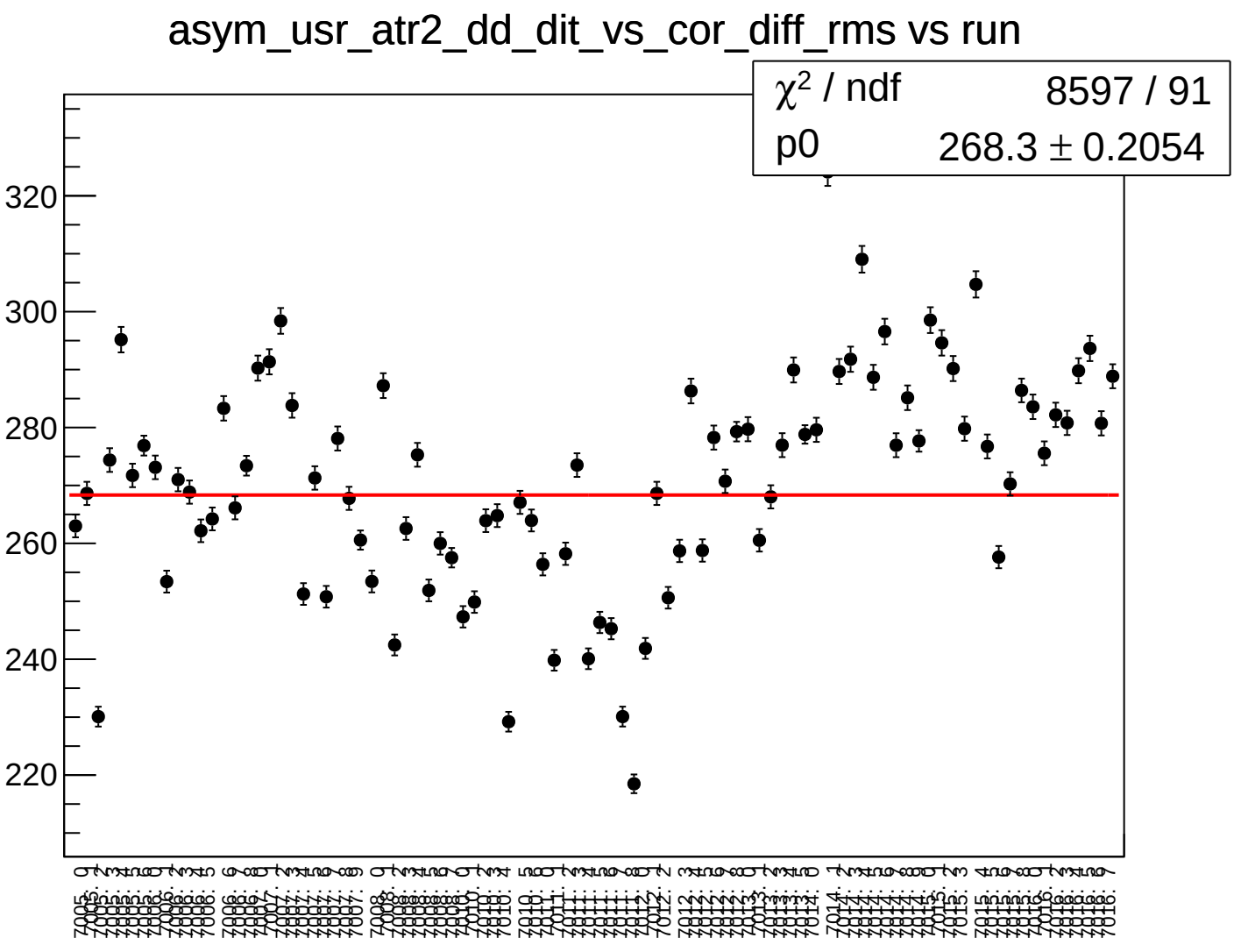

asym_usr_atr2_dd_rms vs run
χ² / ndf 8942 / 91
p0 3702 ± 2.834
4400
4200
4000
3800
3600
3400
3200

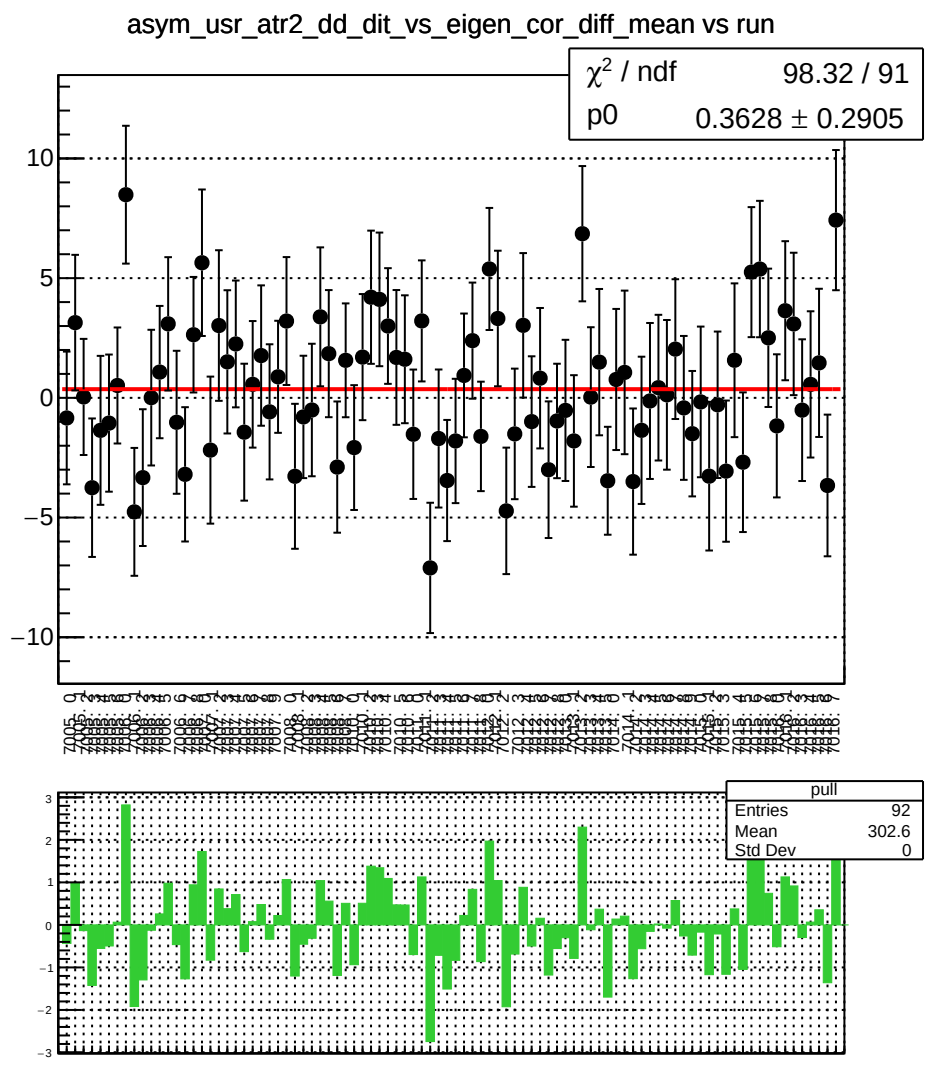

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 114.5 / 91
p0 −2.725e−13 ± 1.012e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 92
Mean −20.56
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.007417
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

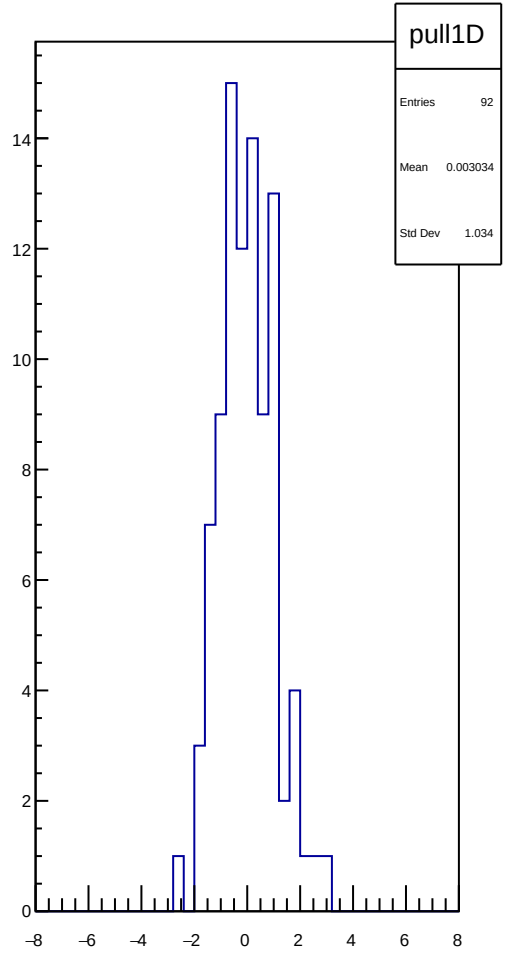

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.053e+06 / 91
p0 5.82e−11 ± 7.154e−14
1.2
1
0.8
0.6
0.4
0.2
0

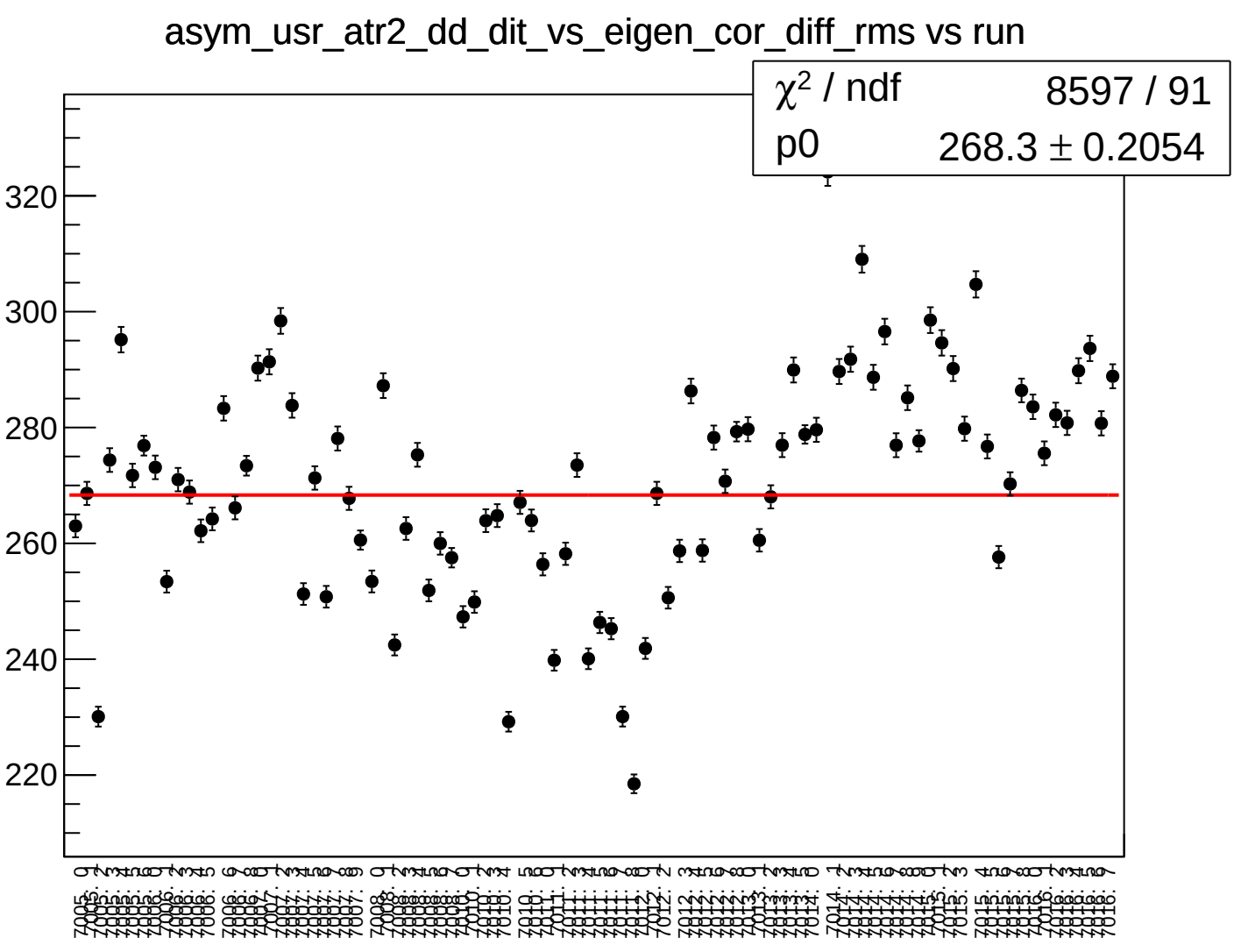

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.32 / 91
p0 0.3628 ± 0.2905
pull
Entries 92
Mean 302.6
Std Dev 0

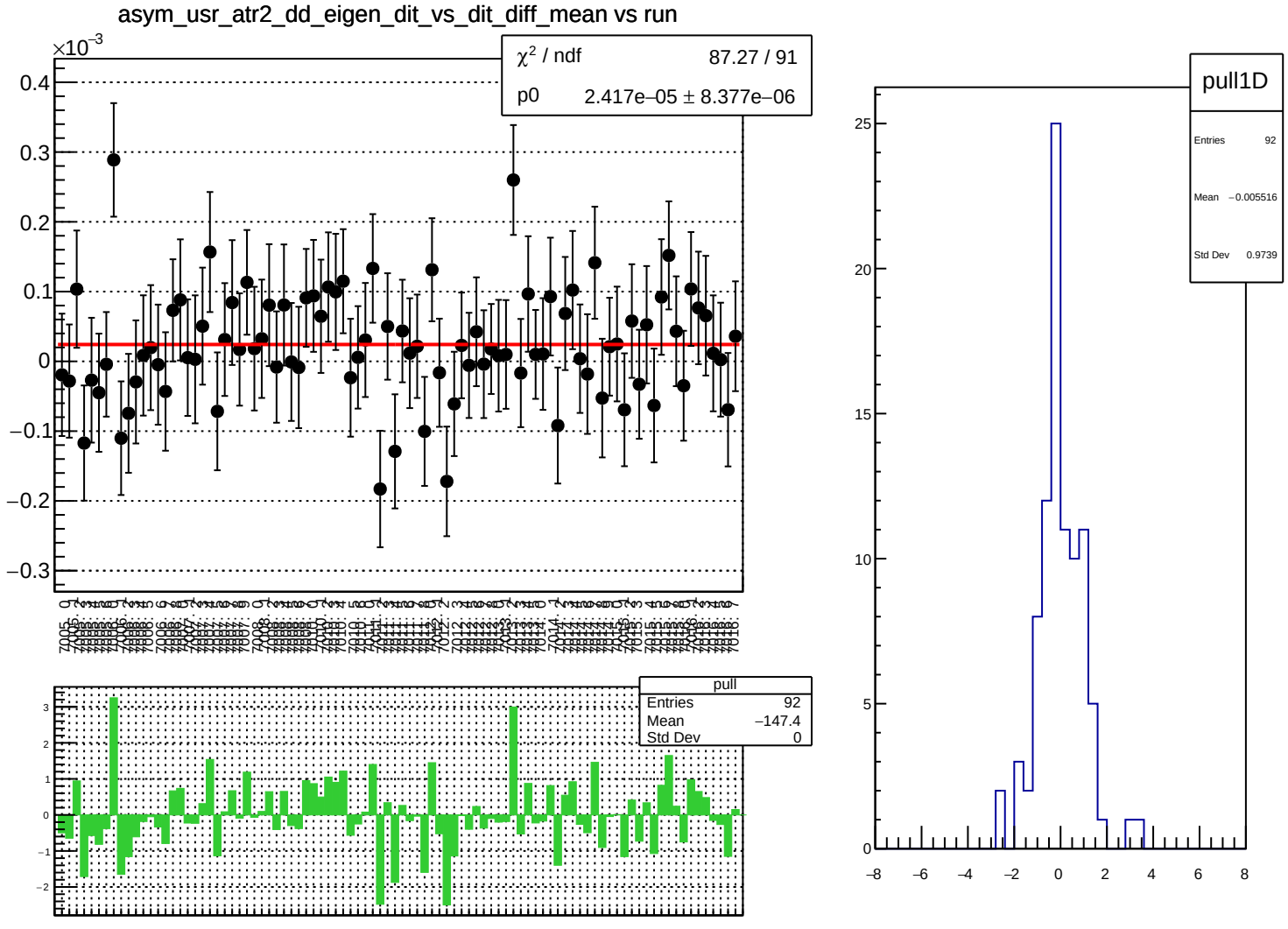

pull1D
Entries 92
Mean 0.003034
Std Dev 1.034

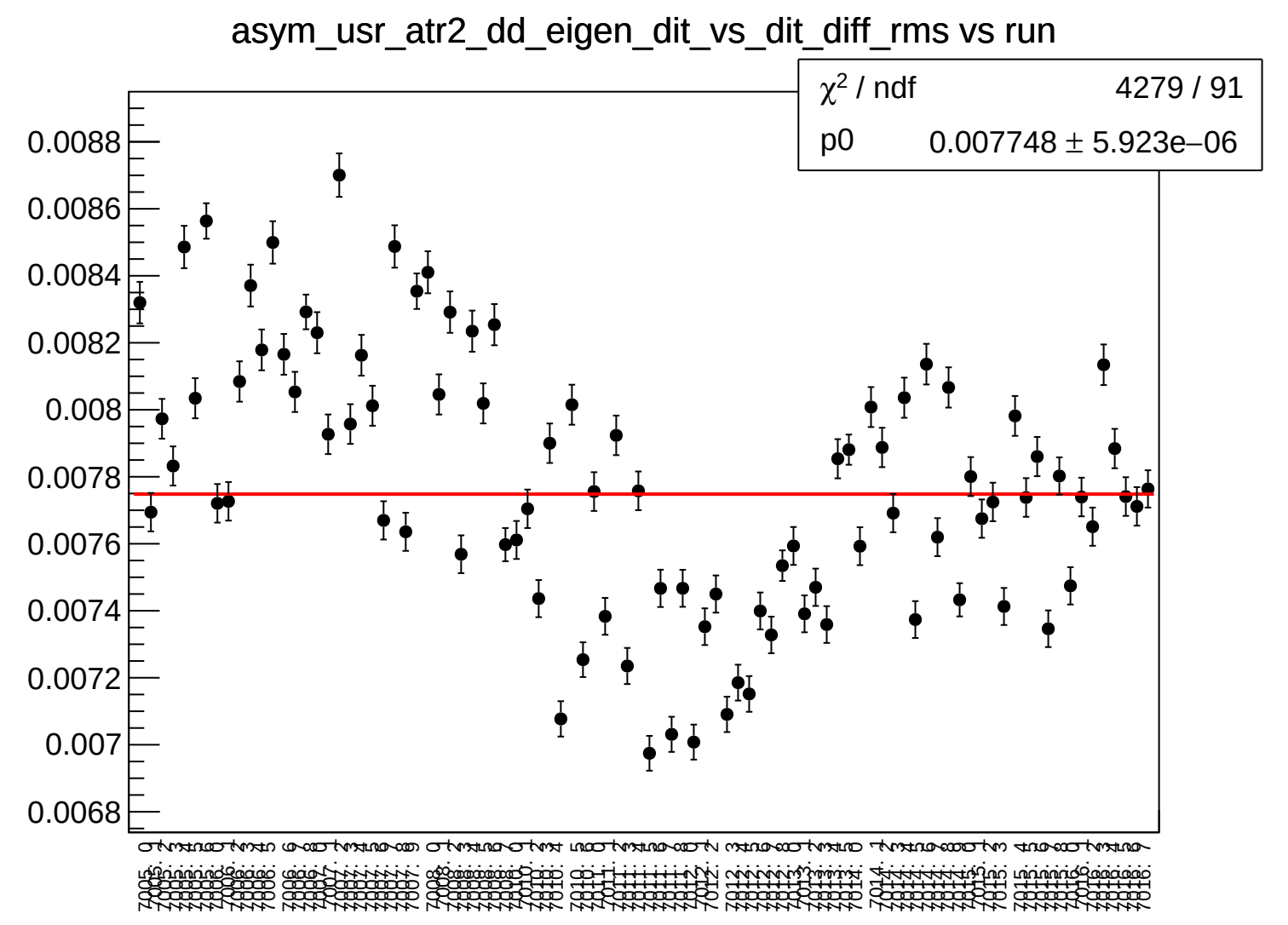

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8597 / 91
p0 268.3 ± 0.2054
320
300
280
260
240
220

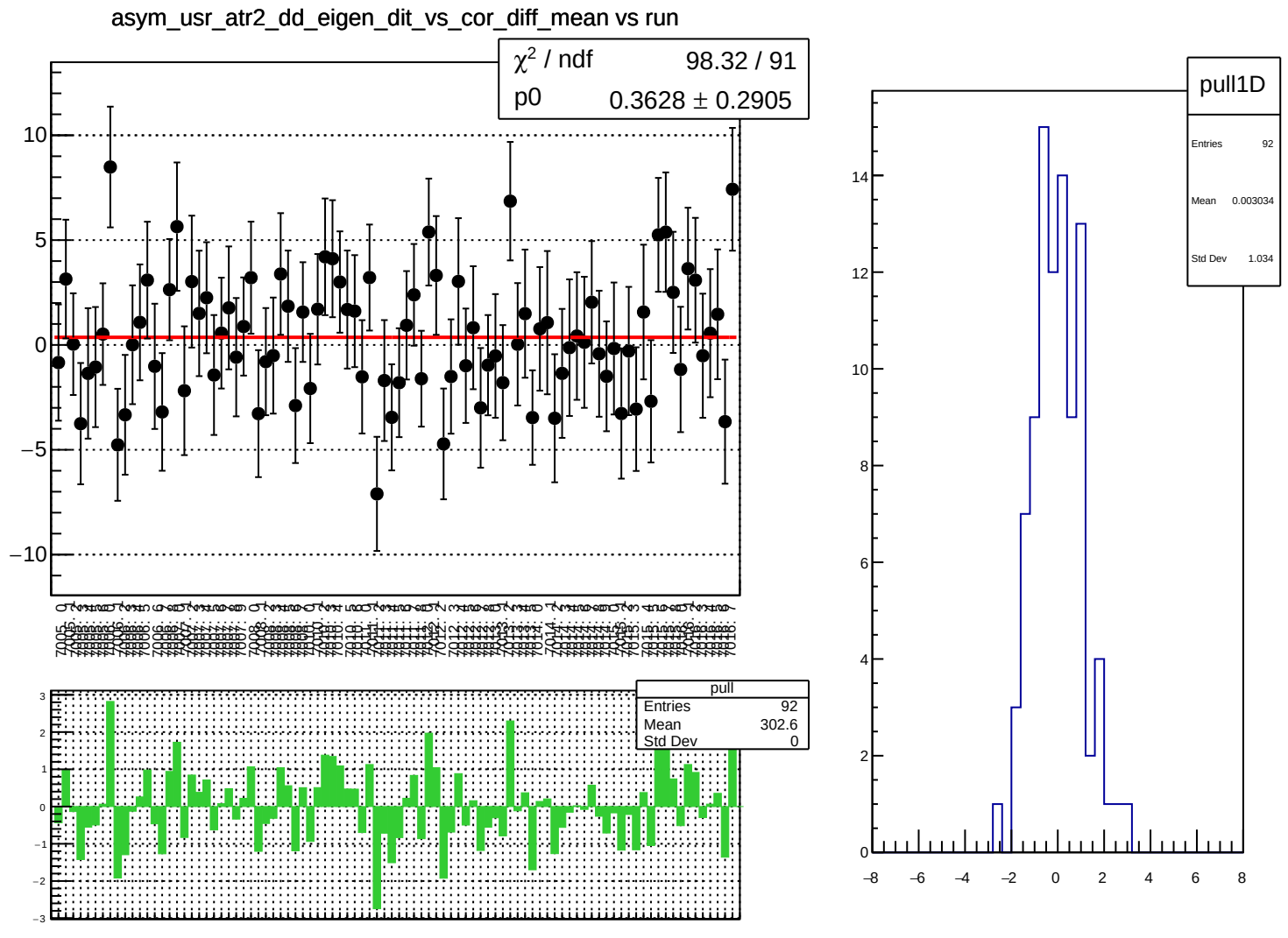

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.32 / 91
p0 0.3628 ± 0.2905
pull
Entries 92
Mean 302.6
Std Dev 0

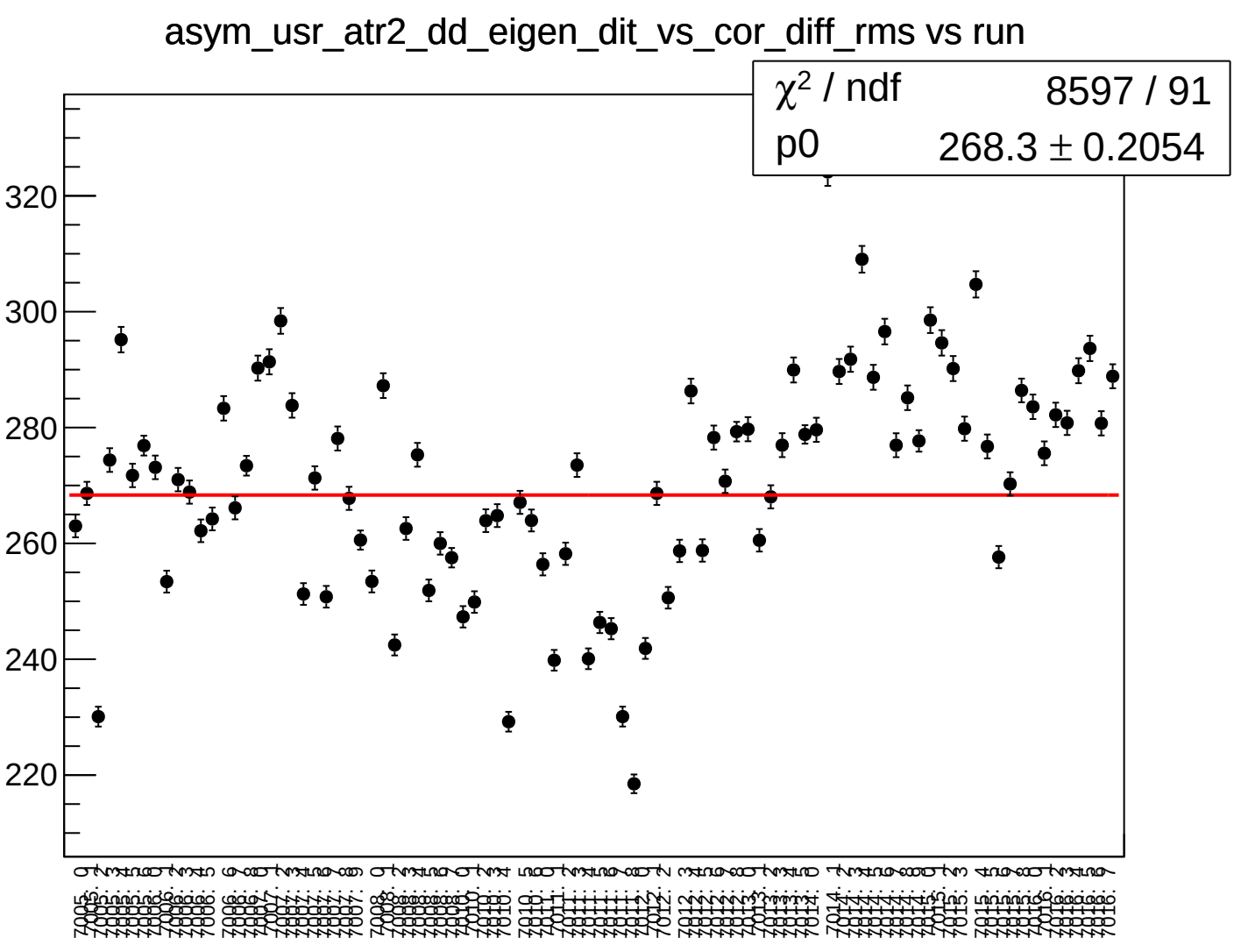

pull1D
Entries 92
Mean 0.003034
Std Dev 1.034

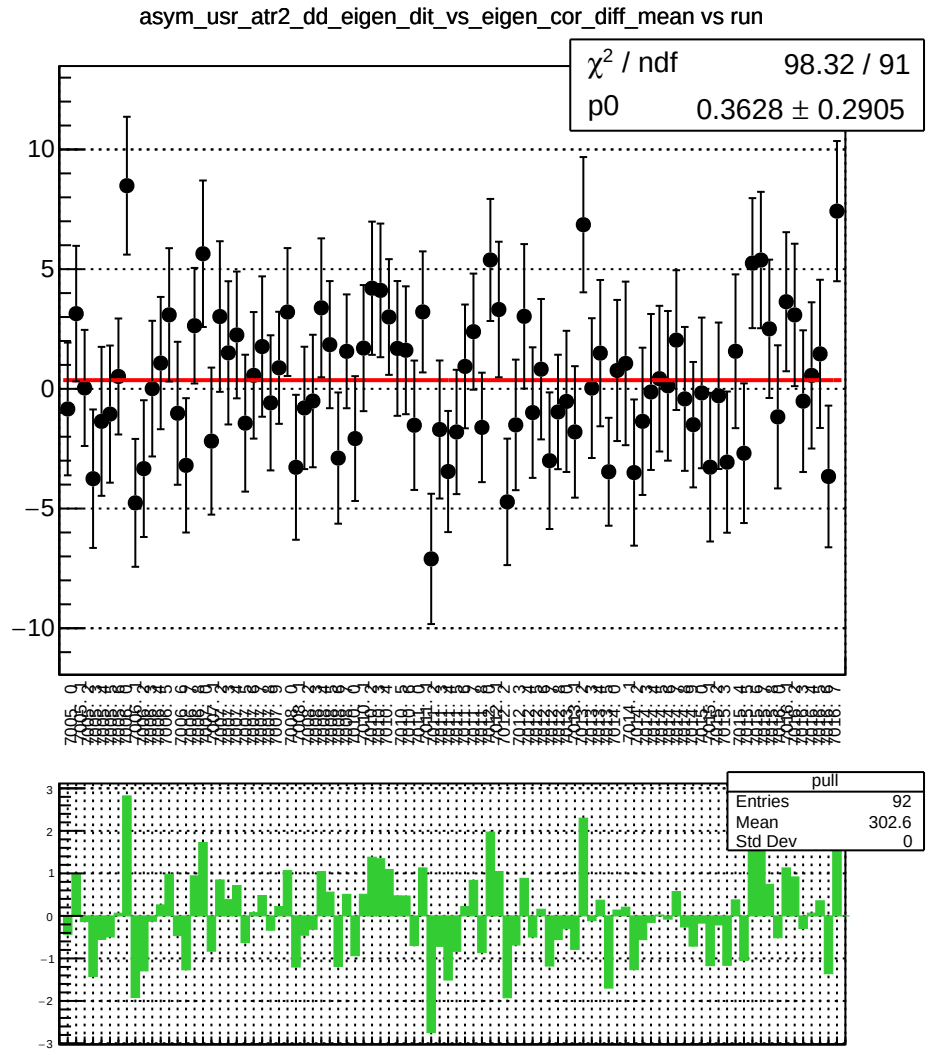

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8597 / 91
p0 268.3 ± 0.2054
320
300
280
260
240
220

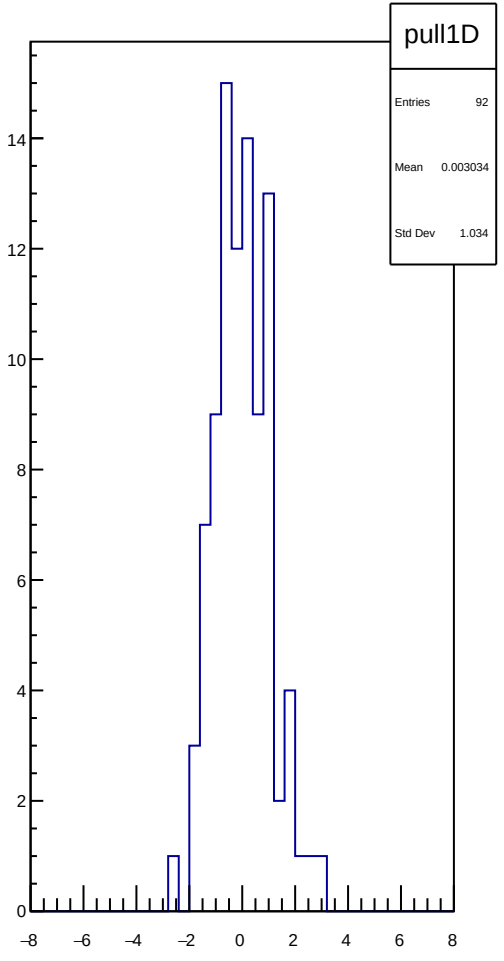

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.27 / 91
p0 2.417e−05 ± 8.377e−06
pull
Entries 92
Mean −147.4
Std Dev 0
pull1D
Entries 92
Mean −0.005516
Std Dev 0.9739

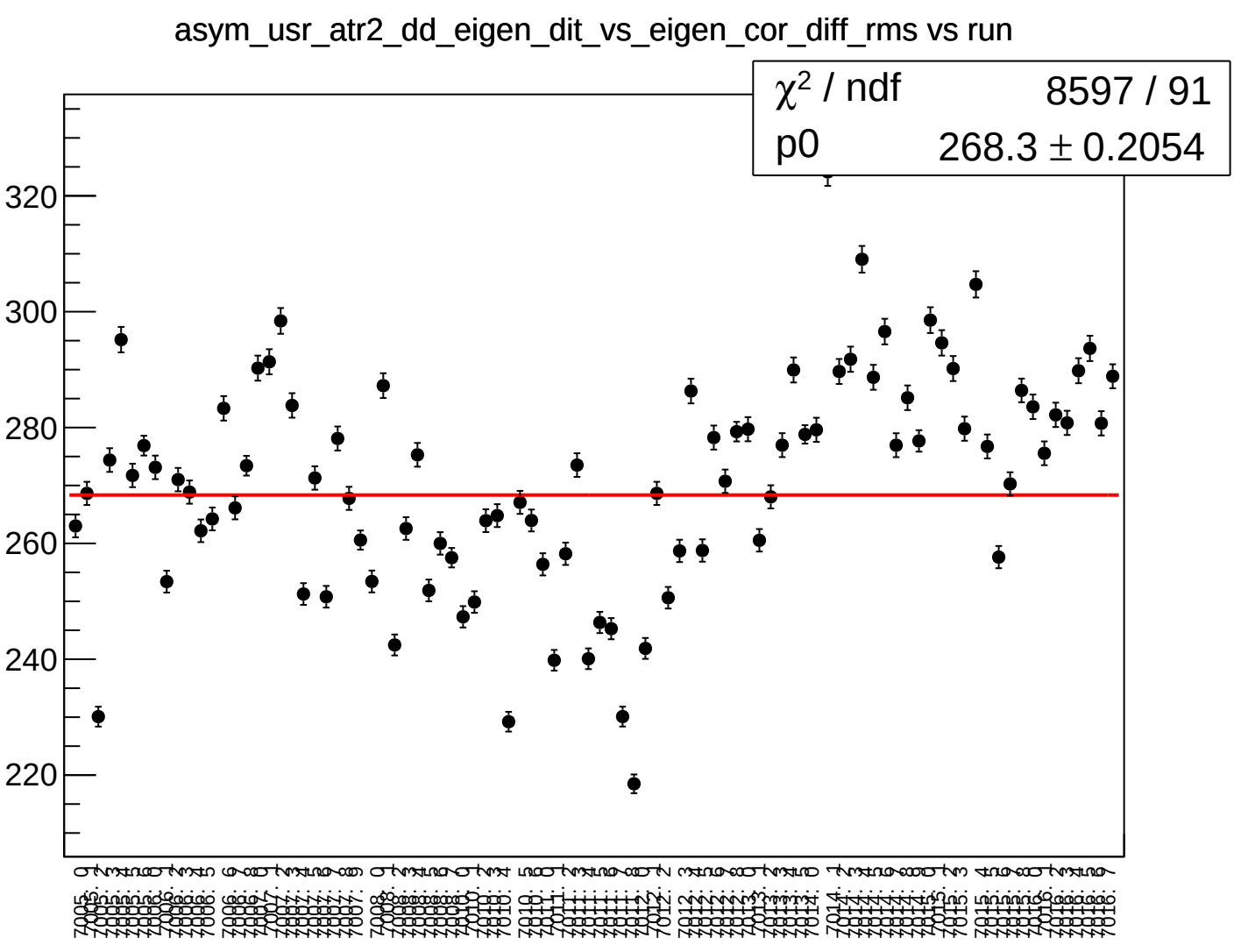

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4279 / 91
p0 0.007748 ± 5.923e−06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068

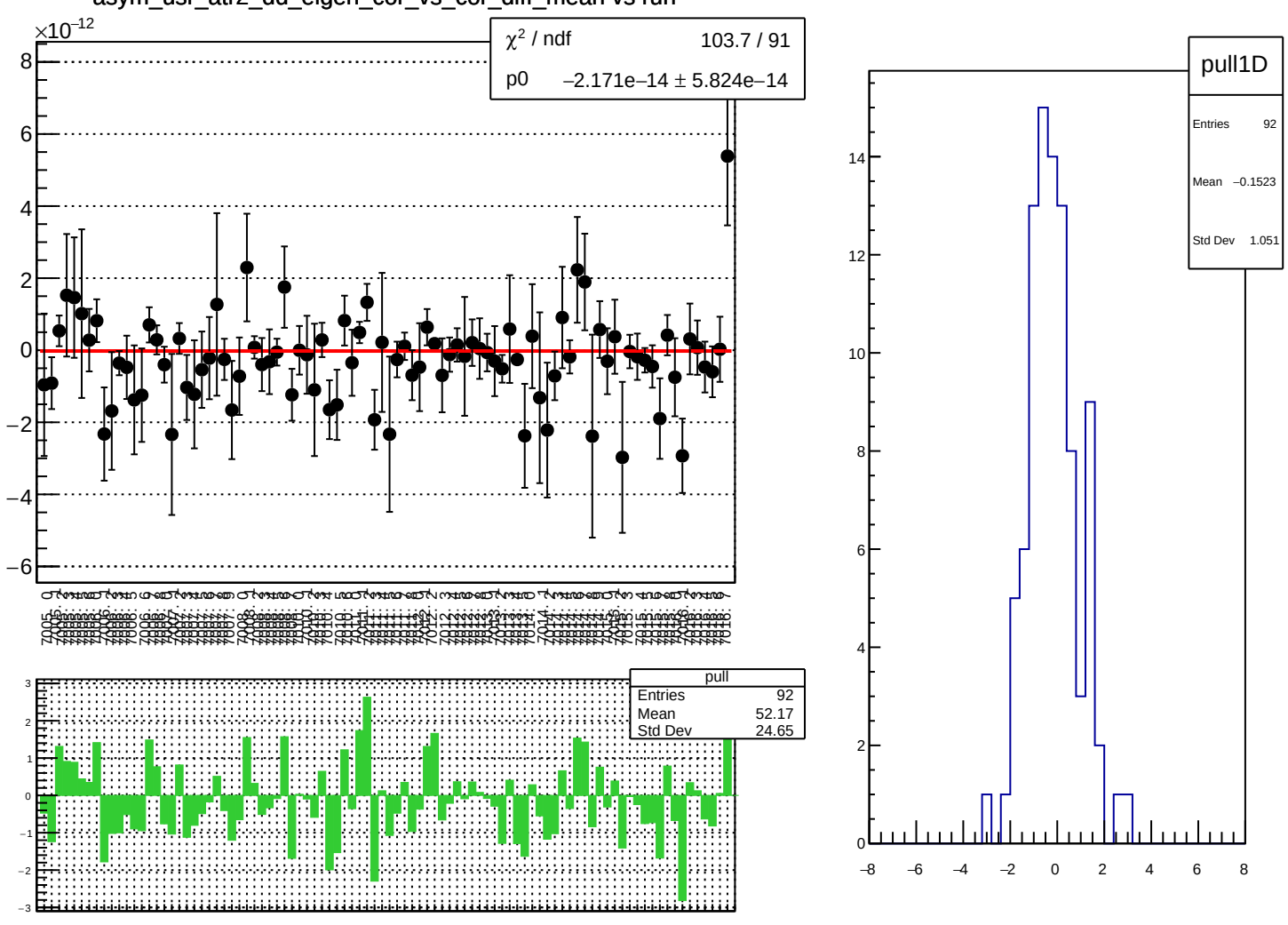

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.32 / 91
p0 0.3628 ± 0.2905
pull
Entries 92
Mean 302.6
Std Dev 0
pull1D
Entries 92
Mean 0.003034
Std Dev 1.034

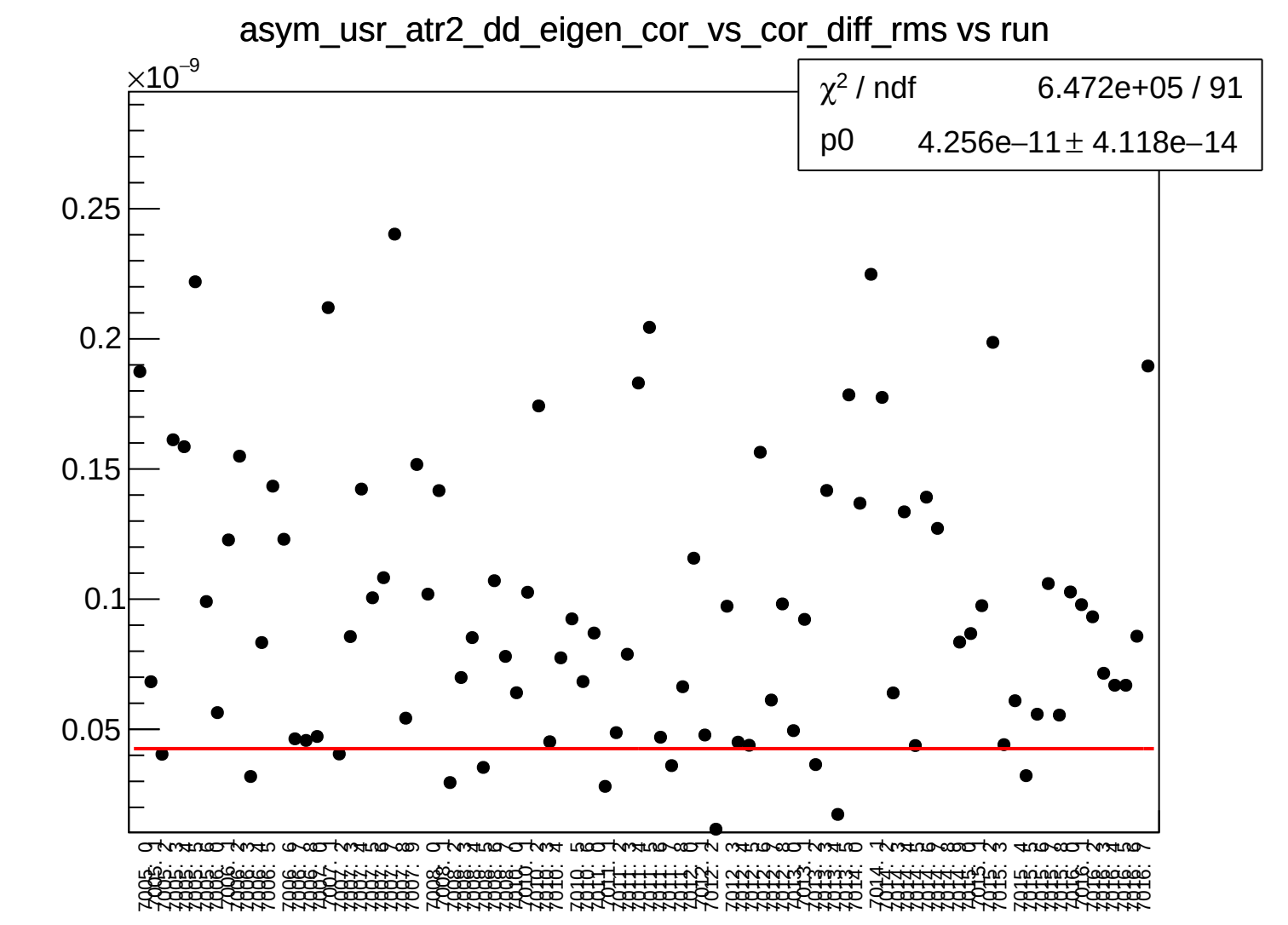

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8597 / 91
p0 268.3 ± 0.2054
320
300
280
260
240
220

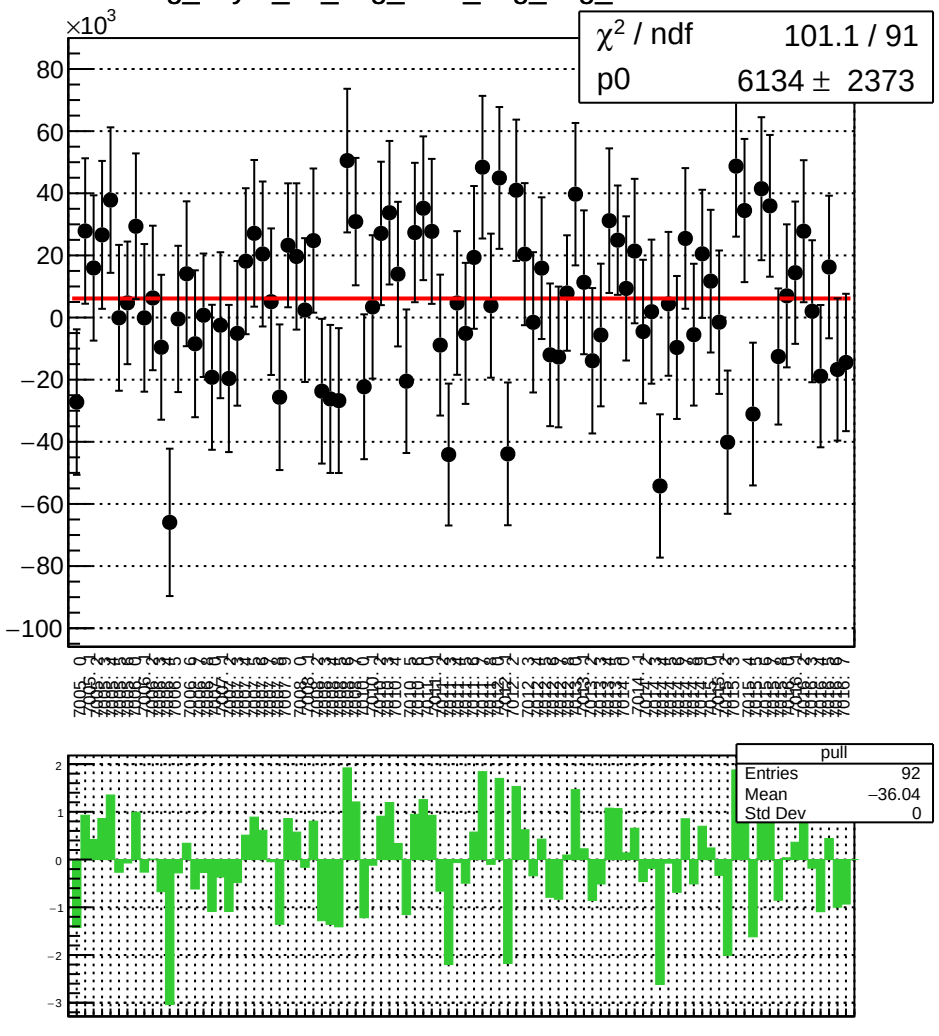

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.32 / 91
p0 0.3628 ± 0.2905
pull
Entries 92
Mean 302.6
Std Dev 0

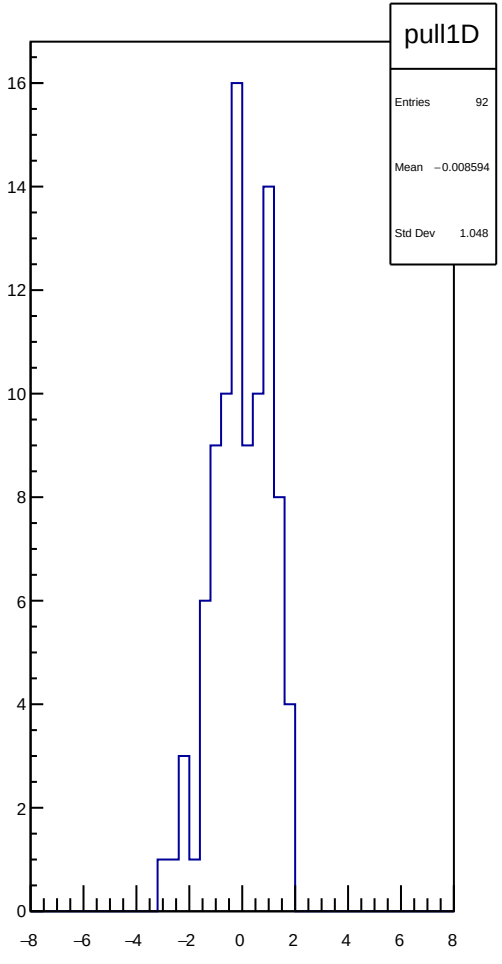

pull1D
Entries 92
Mean 0.003034
Std Dev 1.034

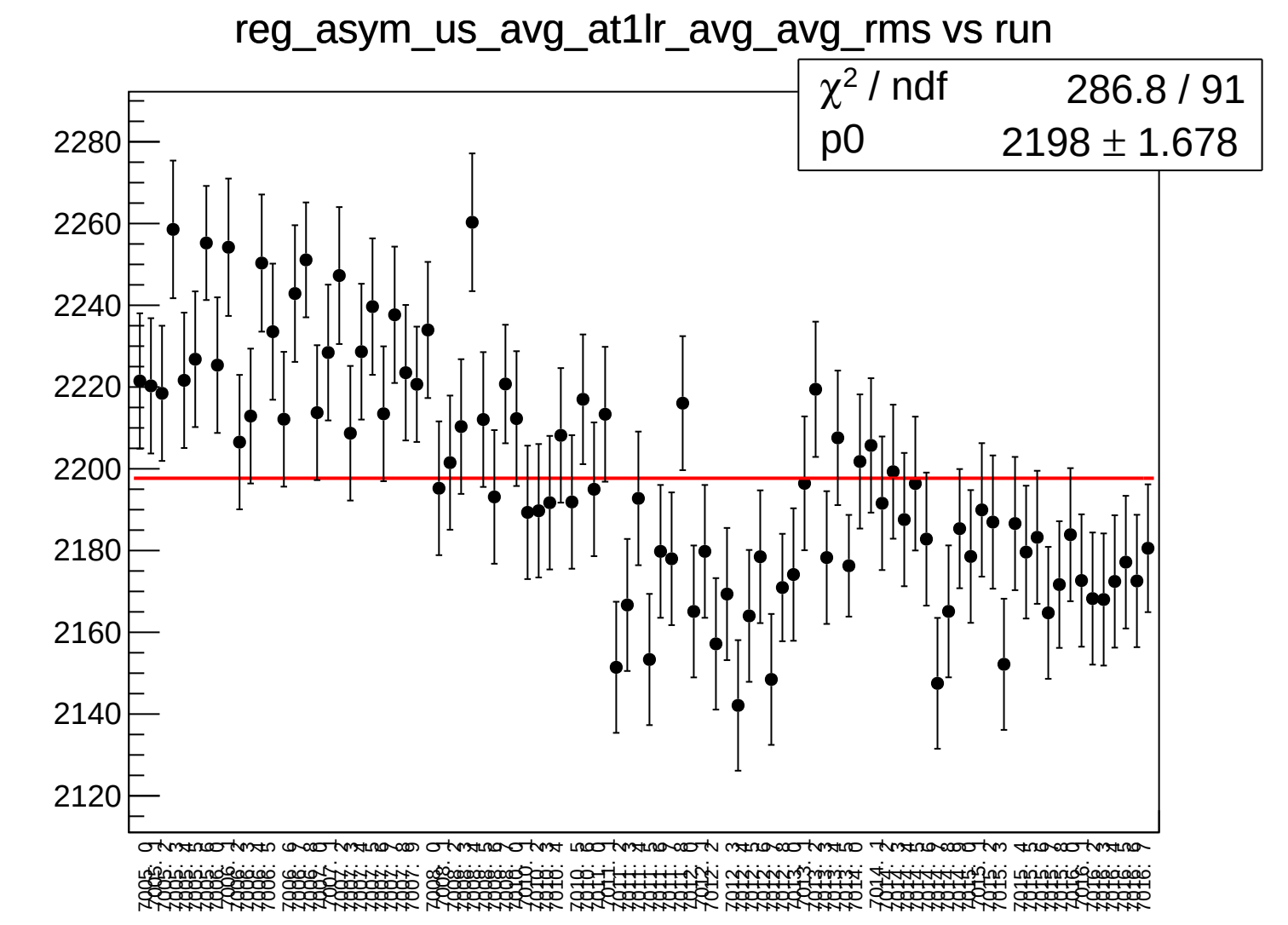

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8597 / 91
p0 268.3 ± 0.2054
320
300
280
260
240
220

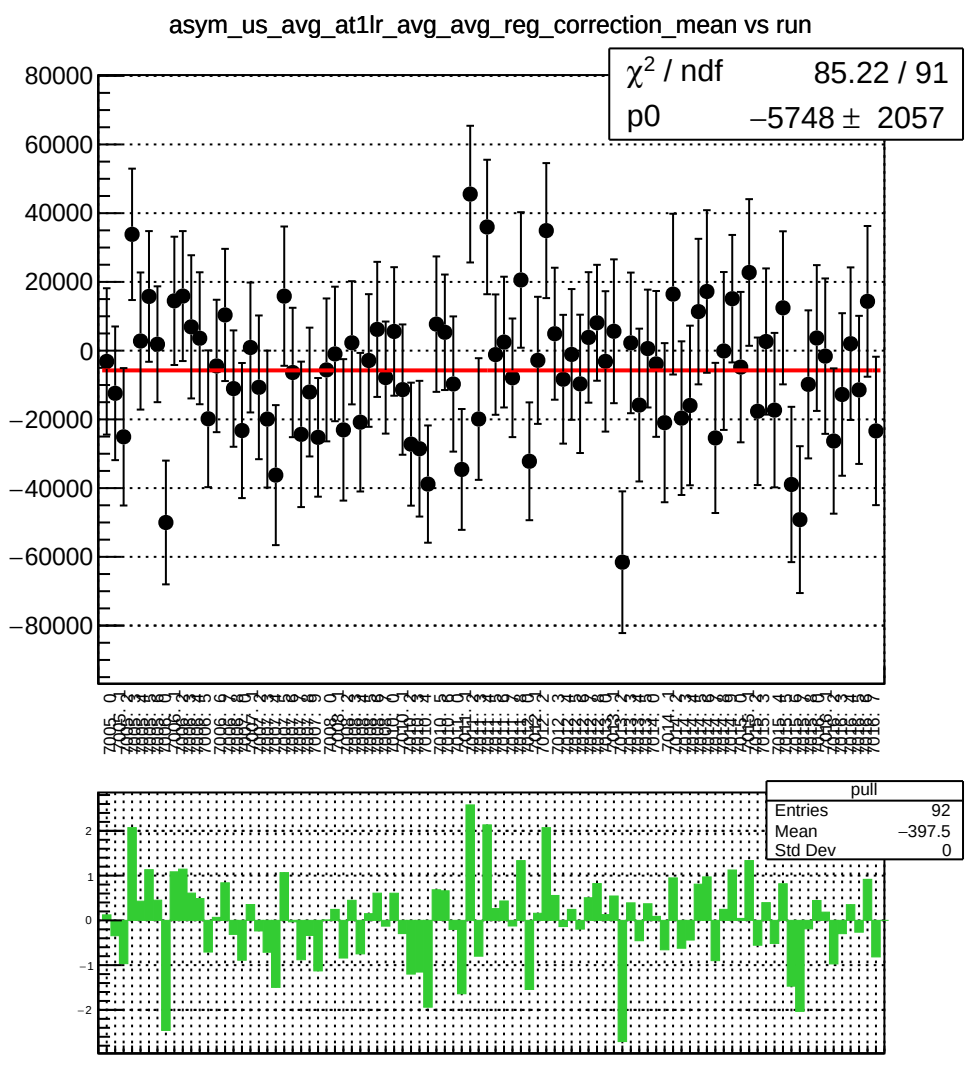

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.7 / 91
p0 −2.171e−14 ± 5.824e−14
pull
Entries 92
Mean 52.17
Std Dev 24.65
pull1D
Entries 92
Mean −0.1523
Std Dev 1.051

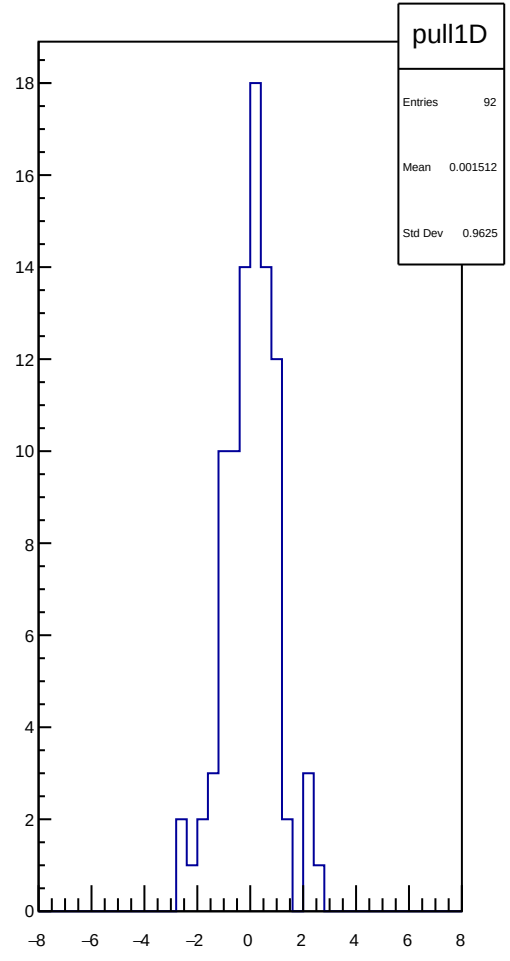

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.472e+05 / 91
p0 4.256e−11 ± 4.118e−14
0.25
0.2
0.15
0.1
0.05

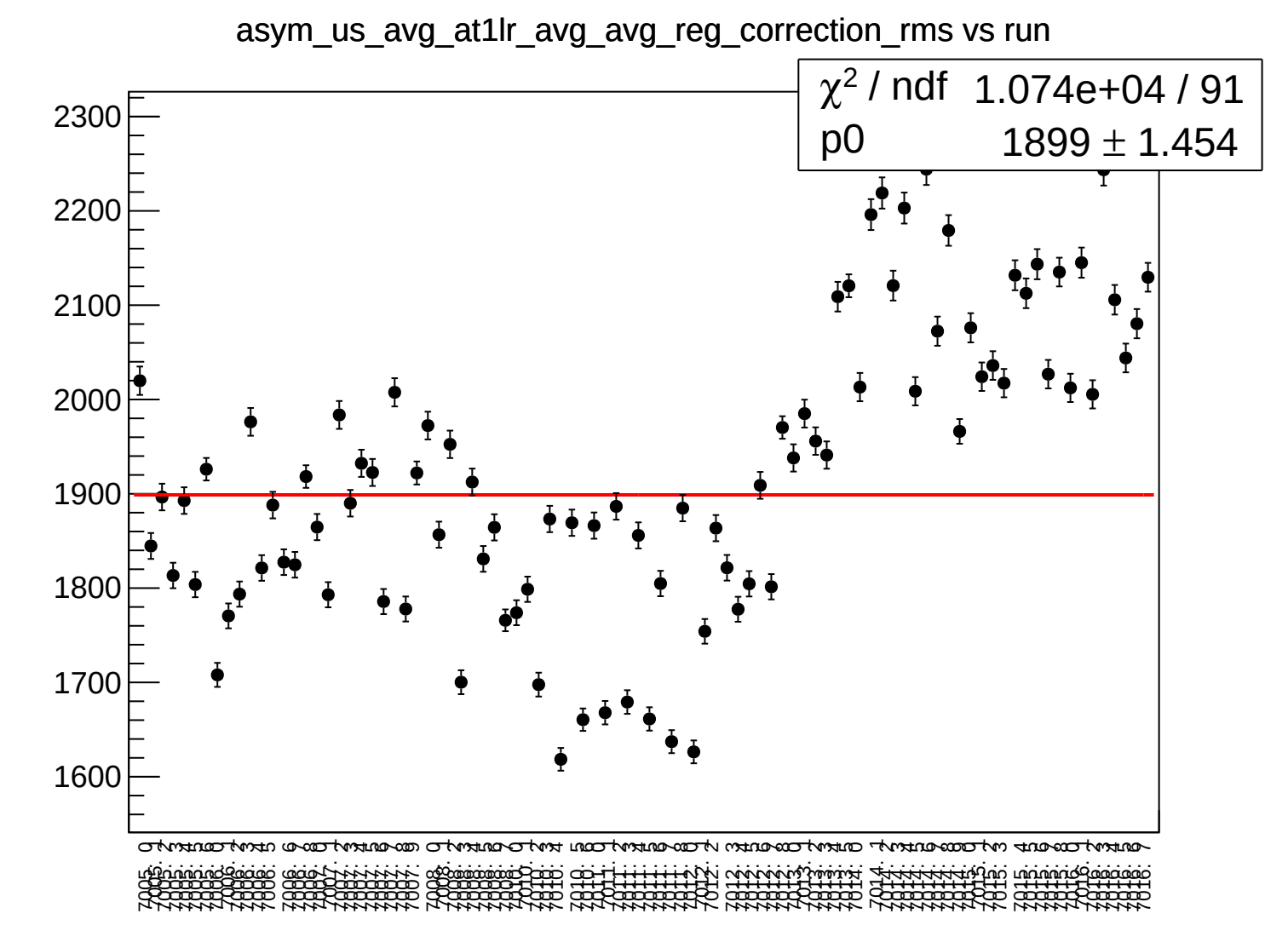

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 101.1 / 91
p0 6134 ± 2373
pull
Entries 92
Mean −36.04
Std Dev 0

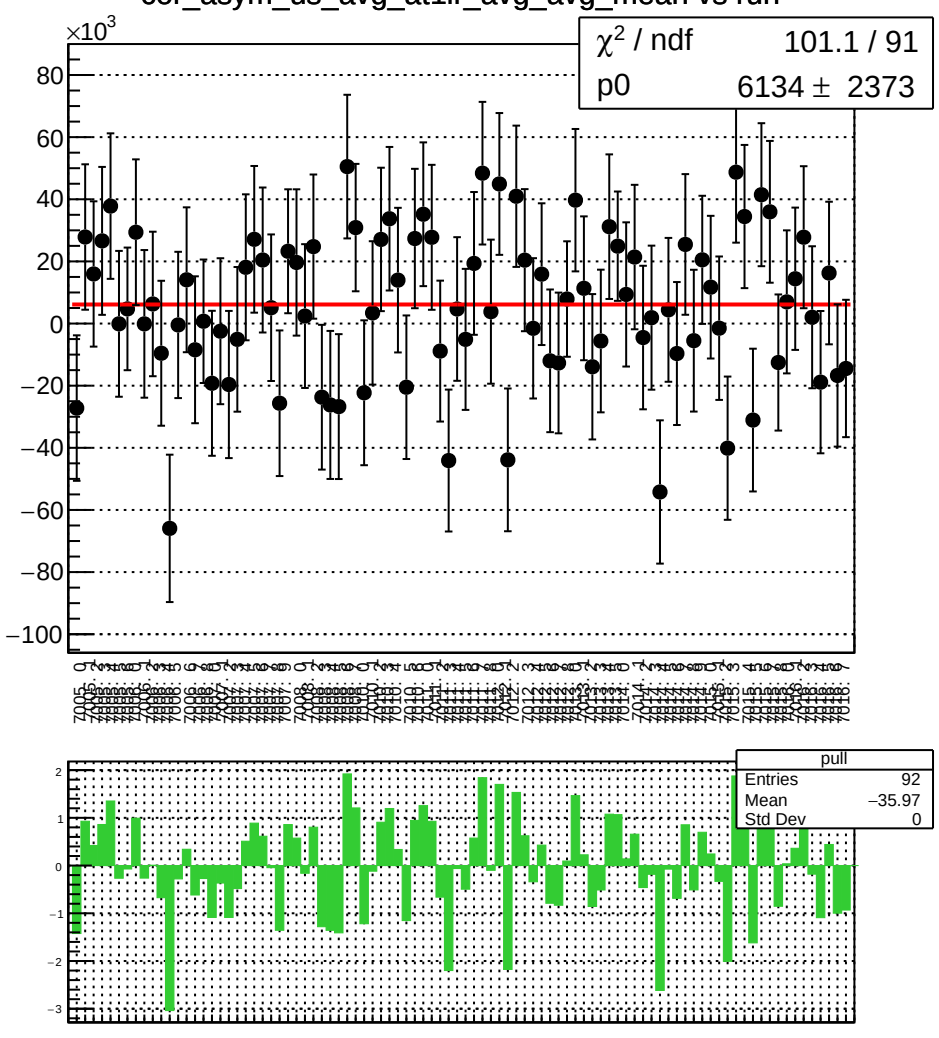

pull1D
Entries 92
Mean −0.008594
Std Dev 1.048

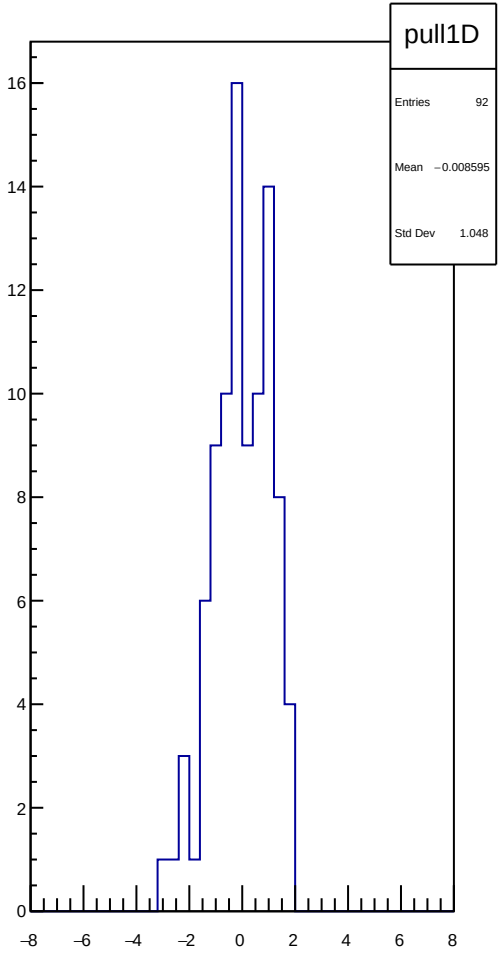

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 286.8 / 91
p0 2198 ± 1.678
2280
2260
2240
2220
2200
2180
2160
2140
2120

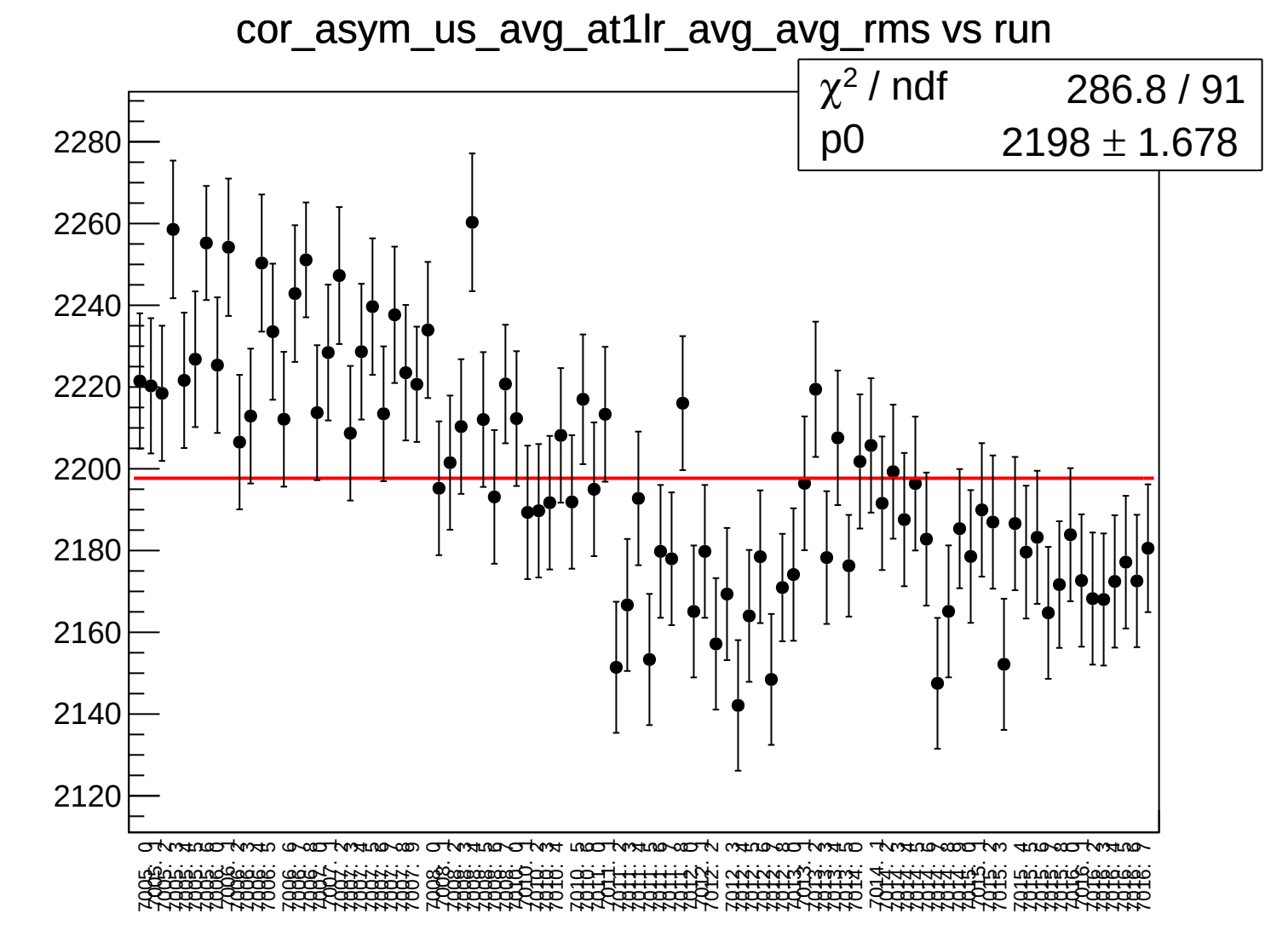

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 85.22 / 91
p0 −5748 ± 2057
pull
Entries 92
Mean −397.5
Std Dev 0

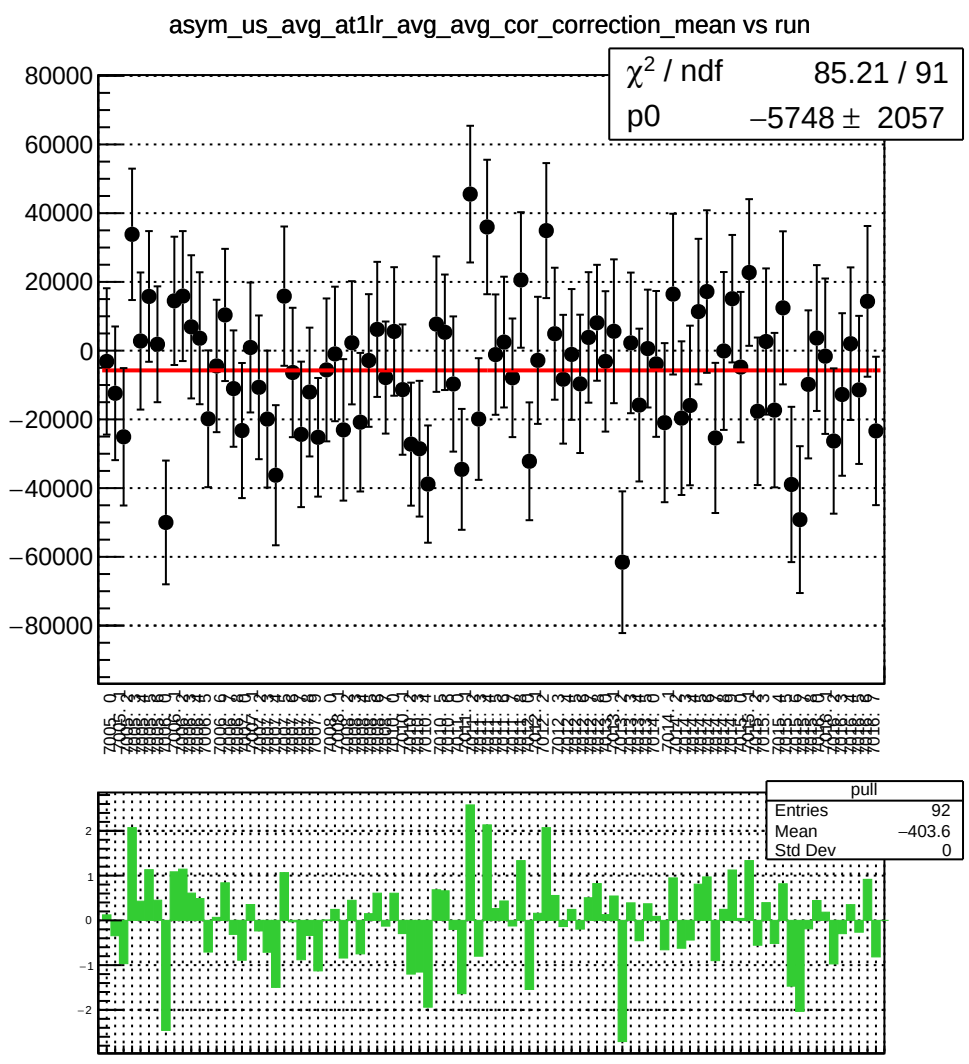

pull1D
Entries 92
Mean 0.001512
Std Dev 0.9625

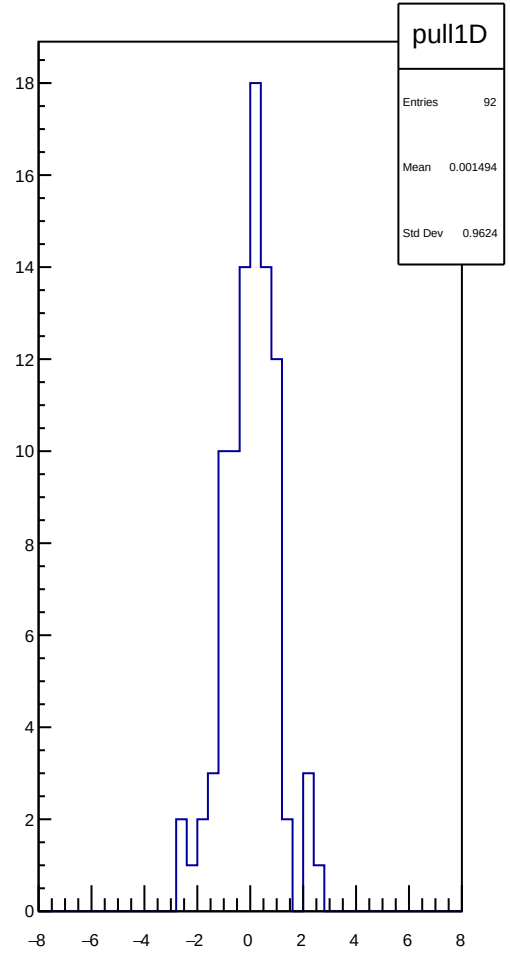

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.074e+04 / 91
p0 1899 ± 1.454
2300
2200
2100
2000
1900
1800
1700
1600

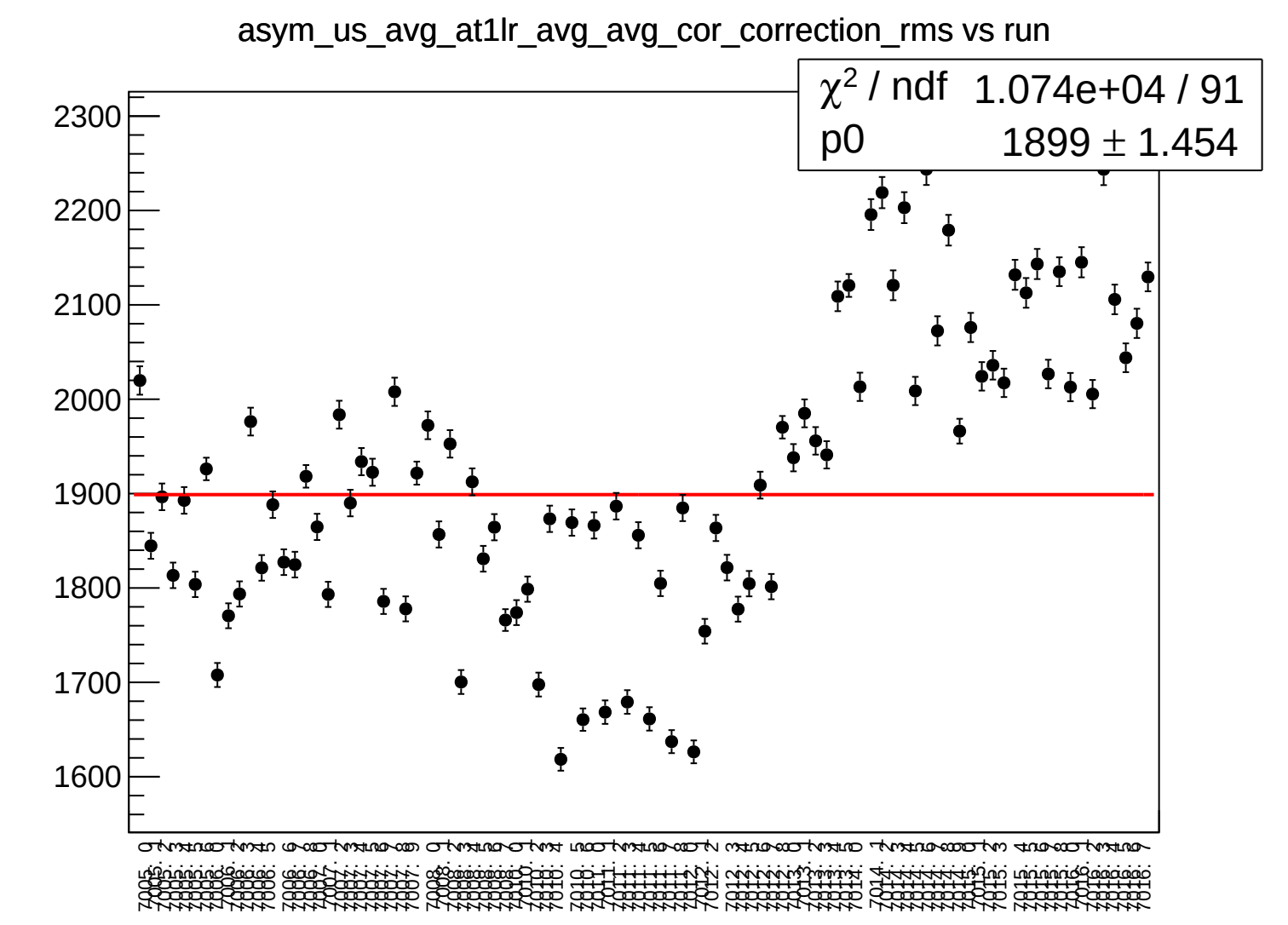

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 101.1 / 91
p0 6134 ± 2373
pull
Entries 92
Mean −35.97
Std Dev 0

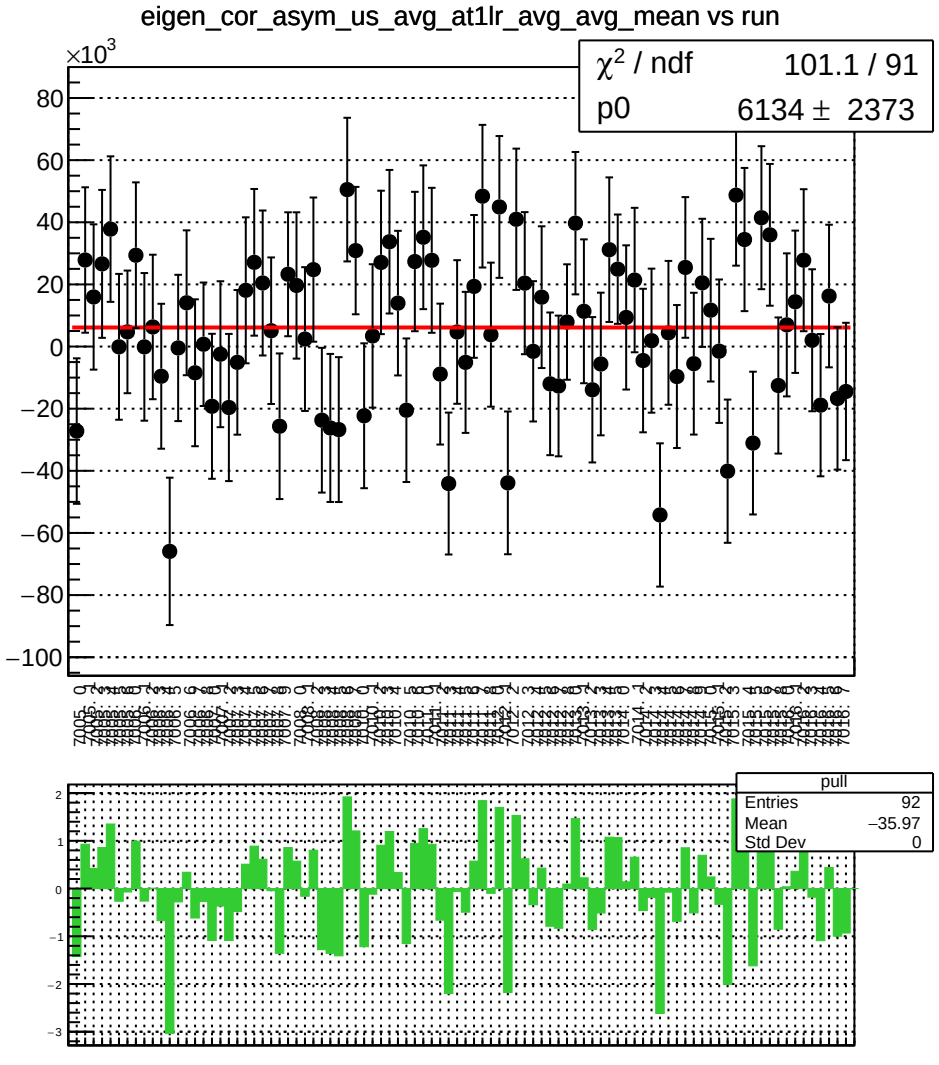

pull1D
Entries 92
Mean −0.008595
Std Dev 1.048

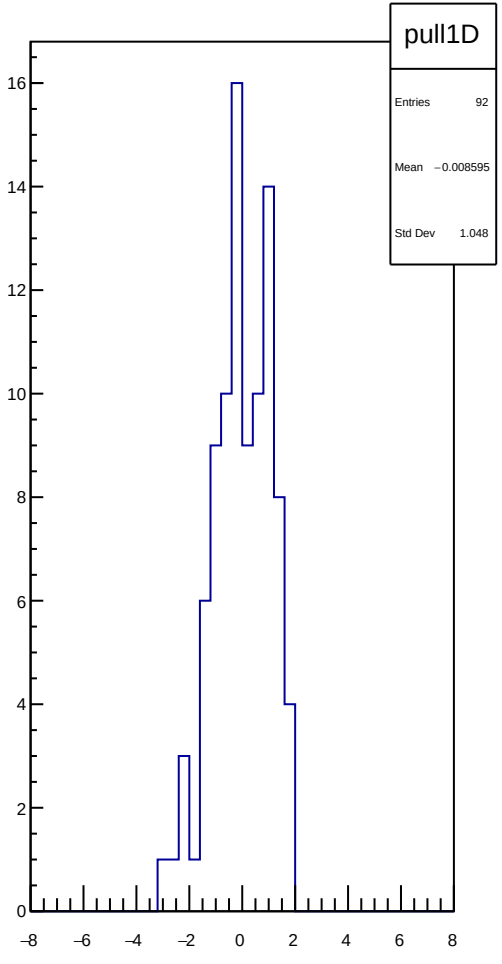

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 286.8 / 91
p0 2198 ± 1.678
2280
2260
2240
2220
2200
2180
2160
2140
2120

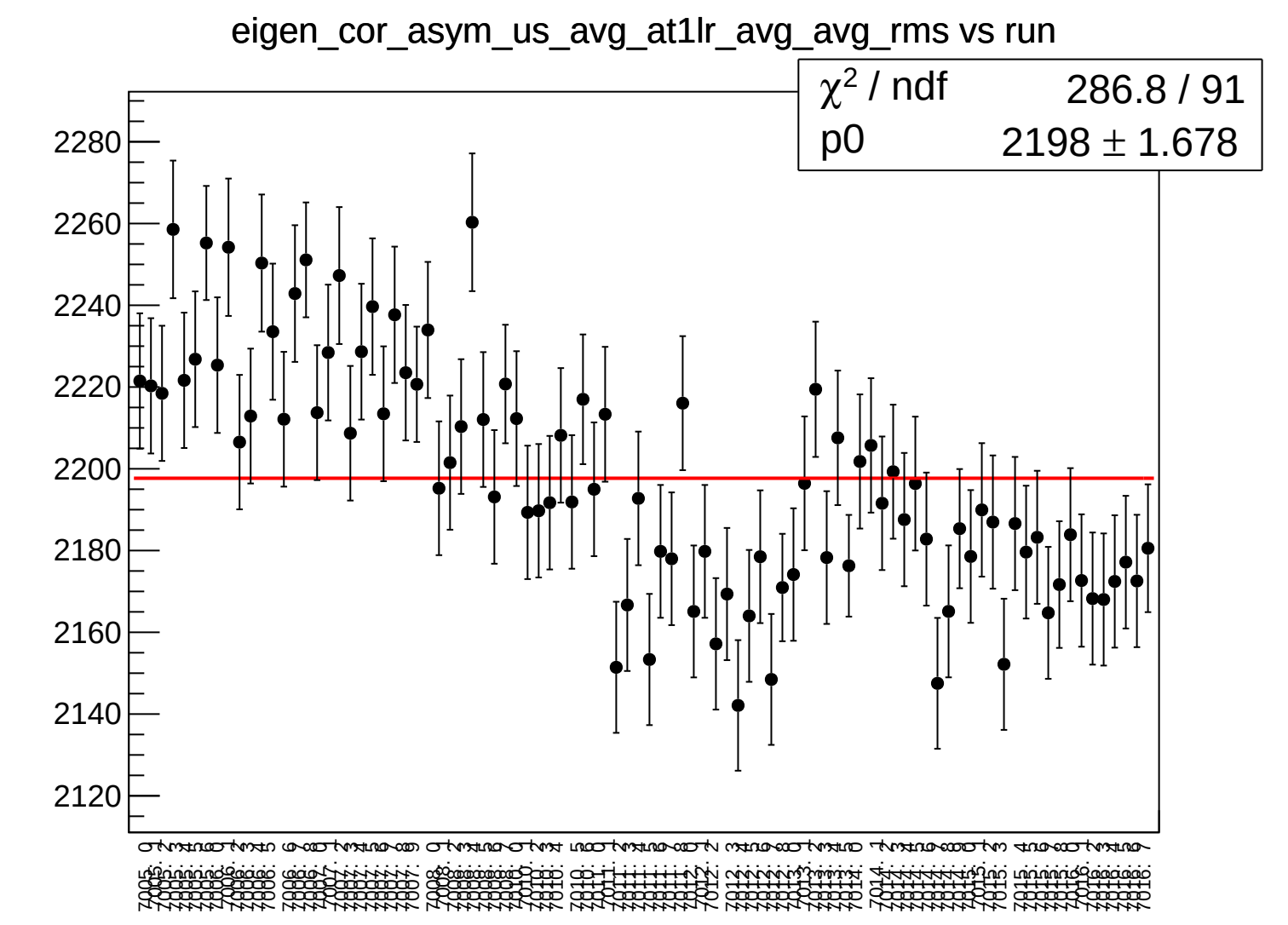

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 85.21 / 91
p0 −5748 ± 2057
pull
Entries 92
Mean −403.6
Std Dev 0

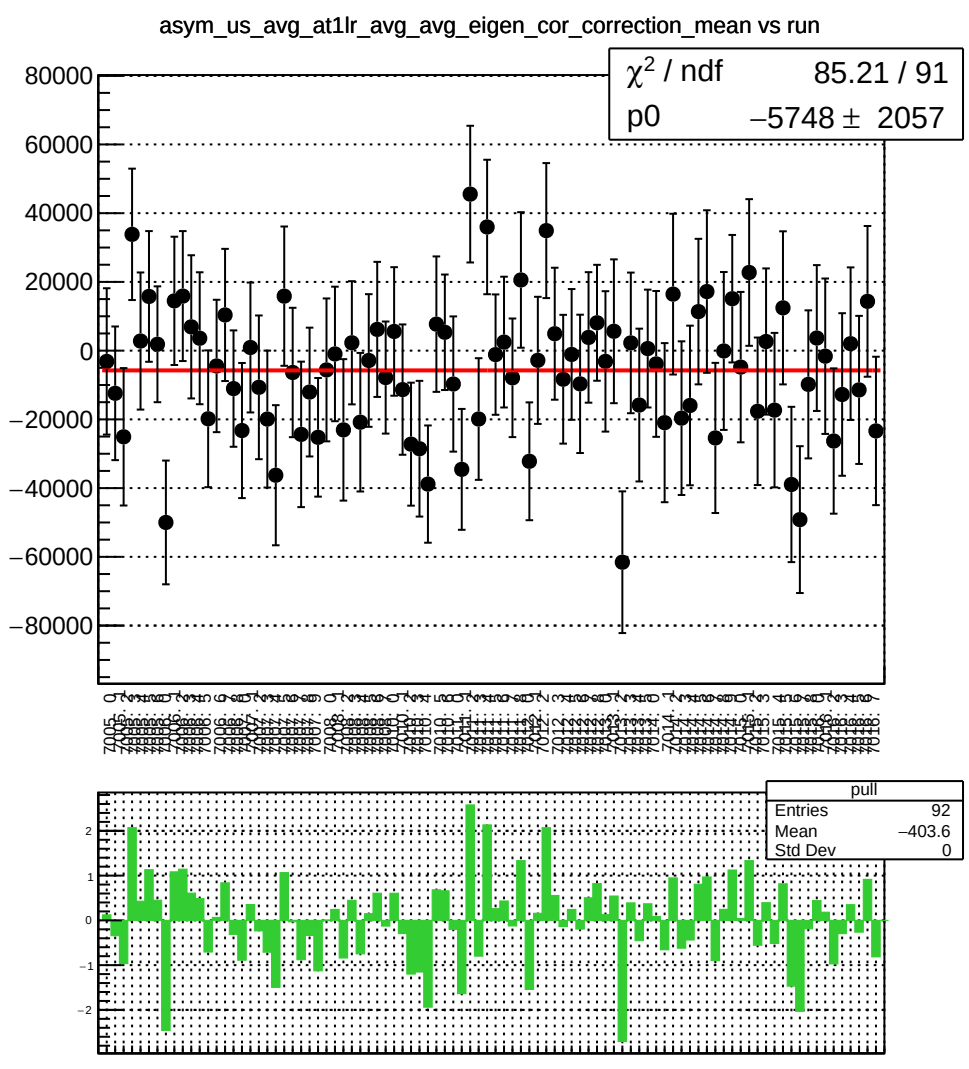

pull1D
Entries 92
Mean 0.001494
Std Dev 0.9624

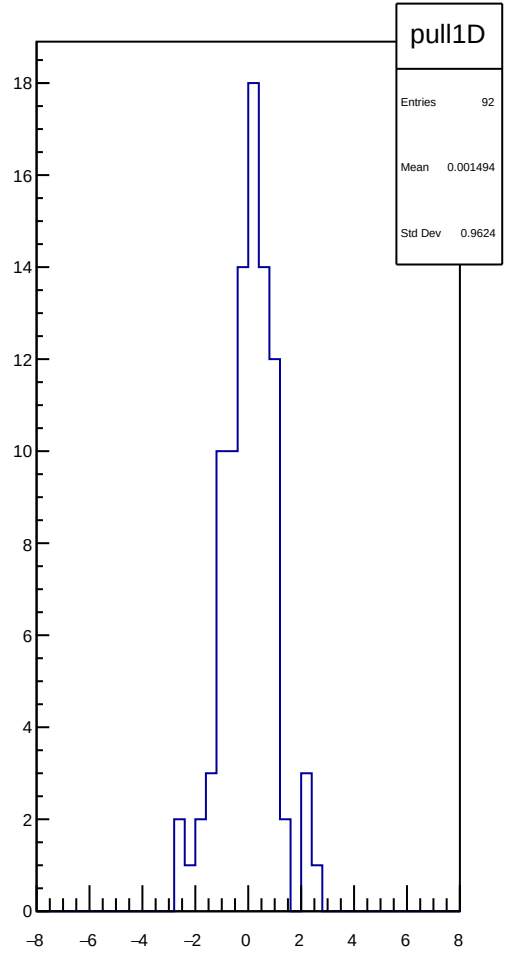

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.074e+04 / 91
p0 1899 ± 1.454
2300
2200
2100
2000
1900
1800
1700
1600

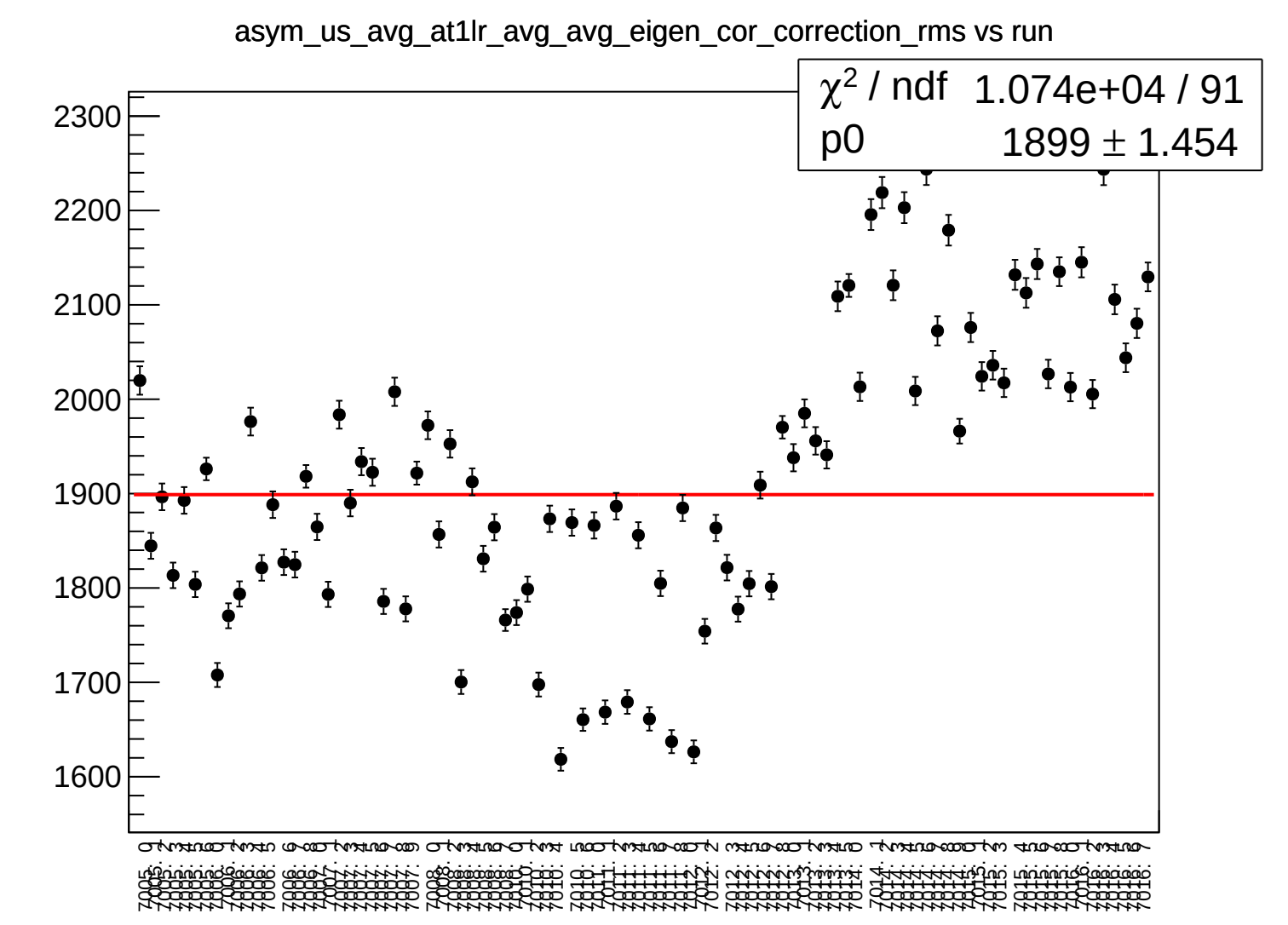

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 101.1 / 91
p0 6134 ± 2373
pull
Entries 92
Mean −35.97
Std Dev 0

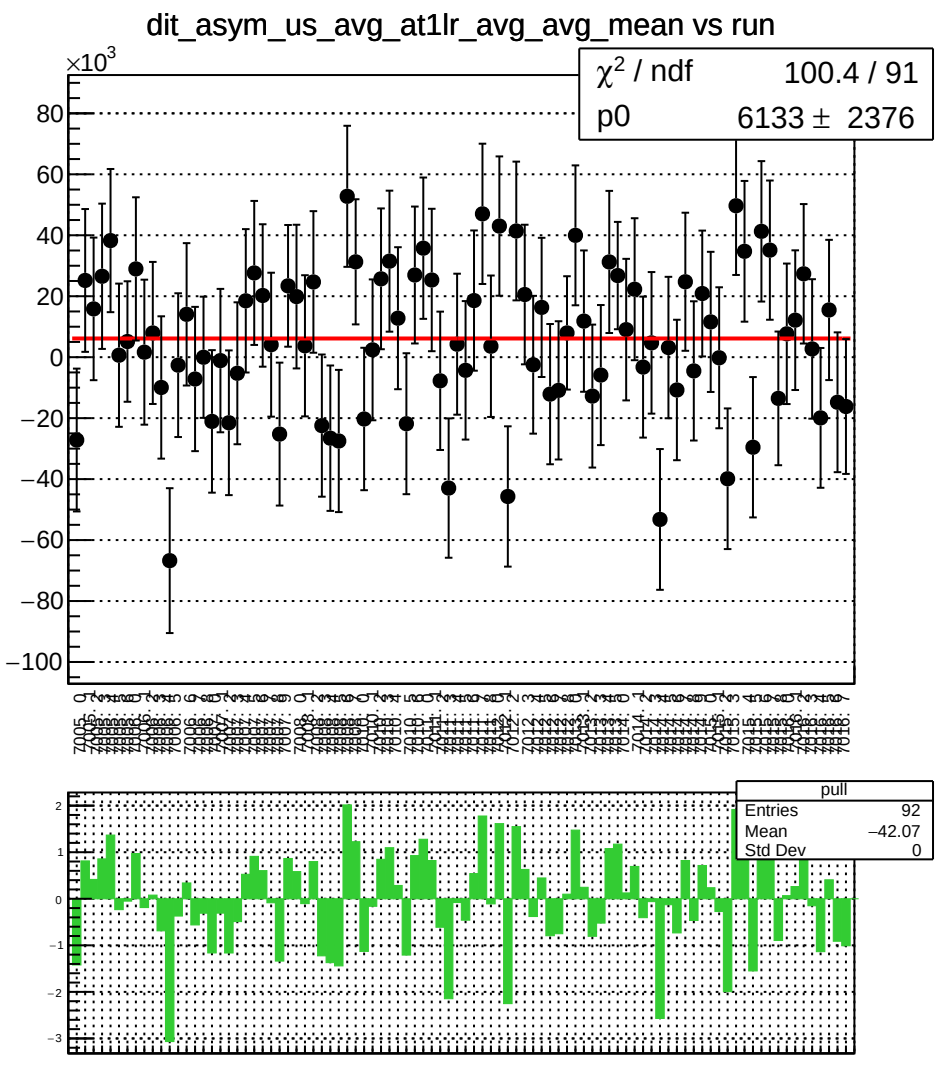

pull1D
Entries 92
Mean −0.008595
Std Dev 1.048

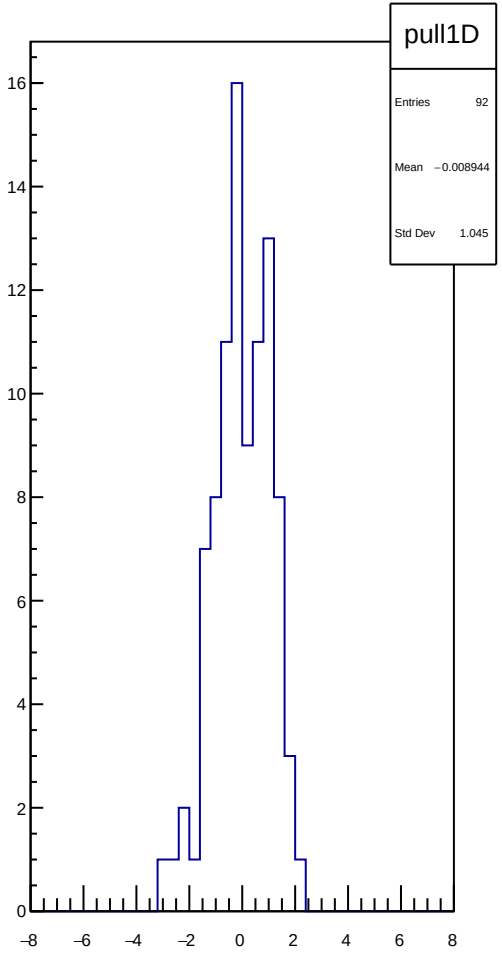

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 286.8 / 91
p0 2198 ± 1.678
2280
2260
2240
2220
2200
2180
2160
2140
2120

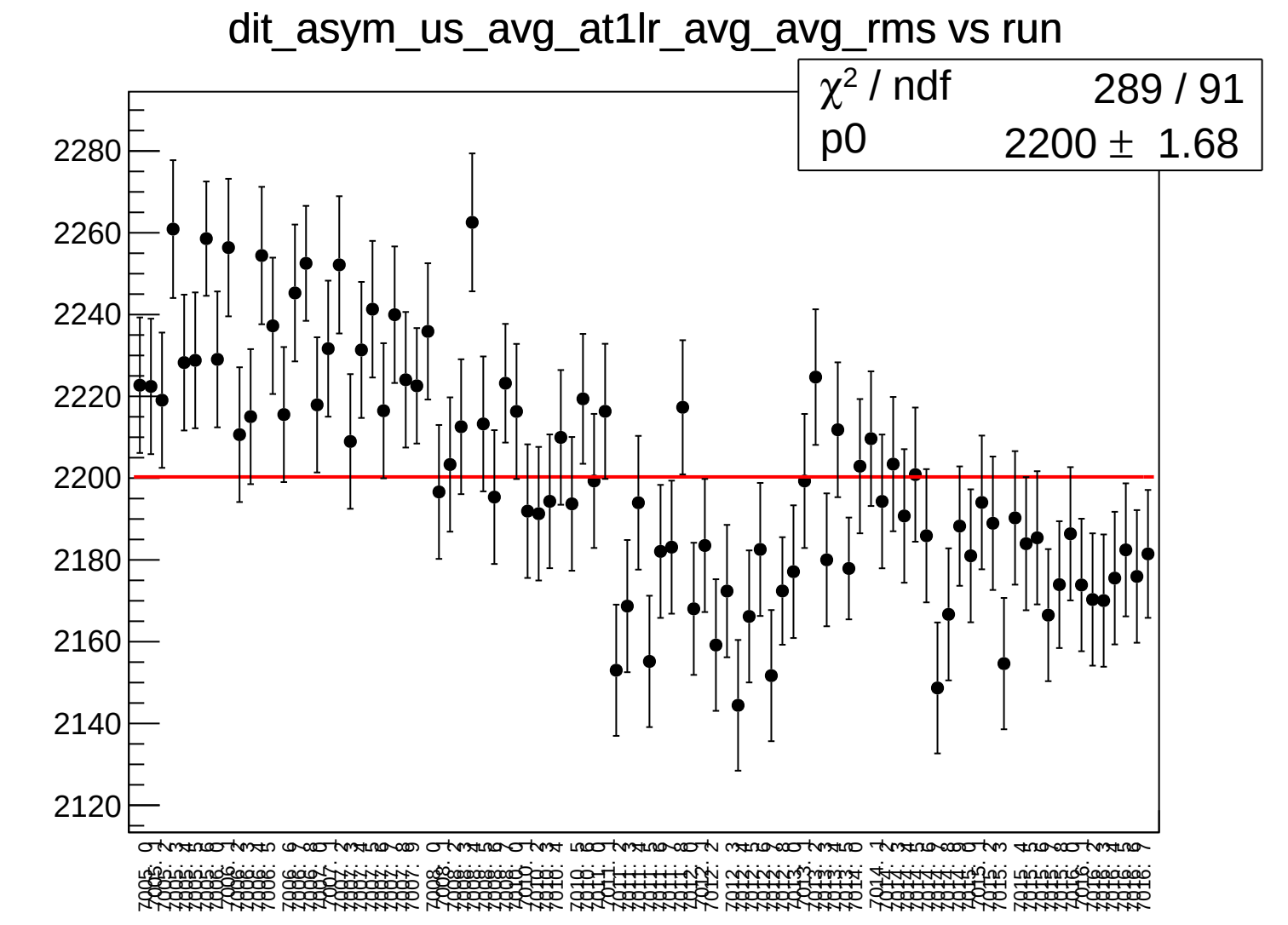

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.21 / 91
p0 −5748 ± 2057
pull
Entries 92
Mean −403.6
Std Dev 0

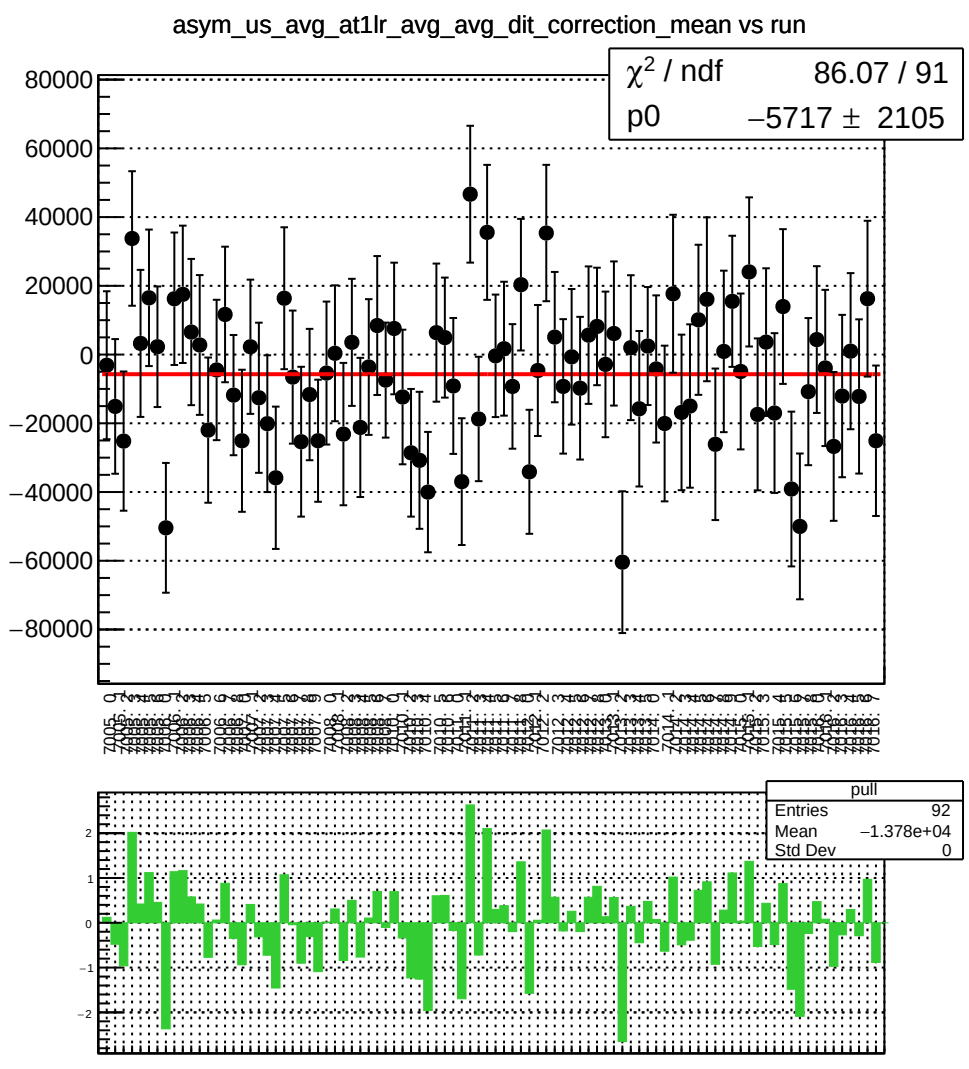

pull1D
Entries 92
Mean 0.001494
Std Dev 0.9624

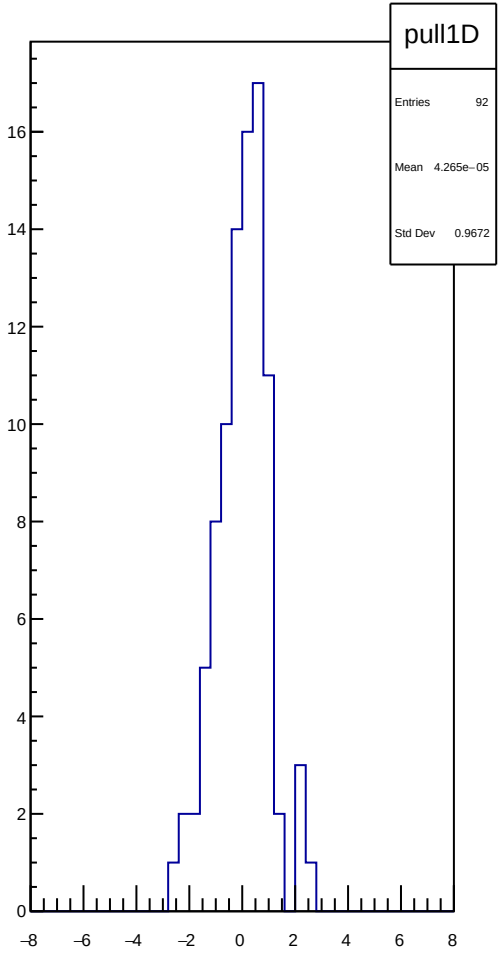

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.074e+04 / 91
p0 1899 ± 1.454
2300
2200
2100
2000
1900
1800
1700
1600

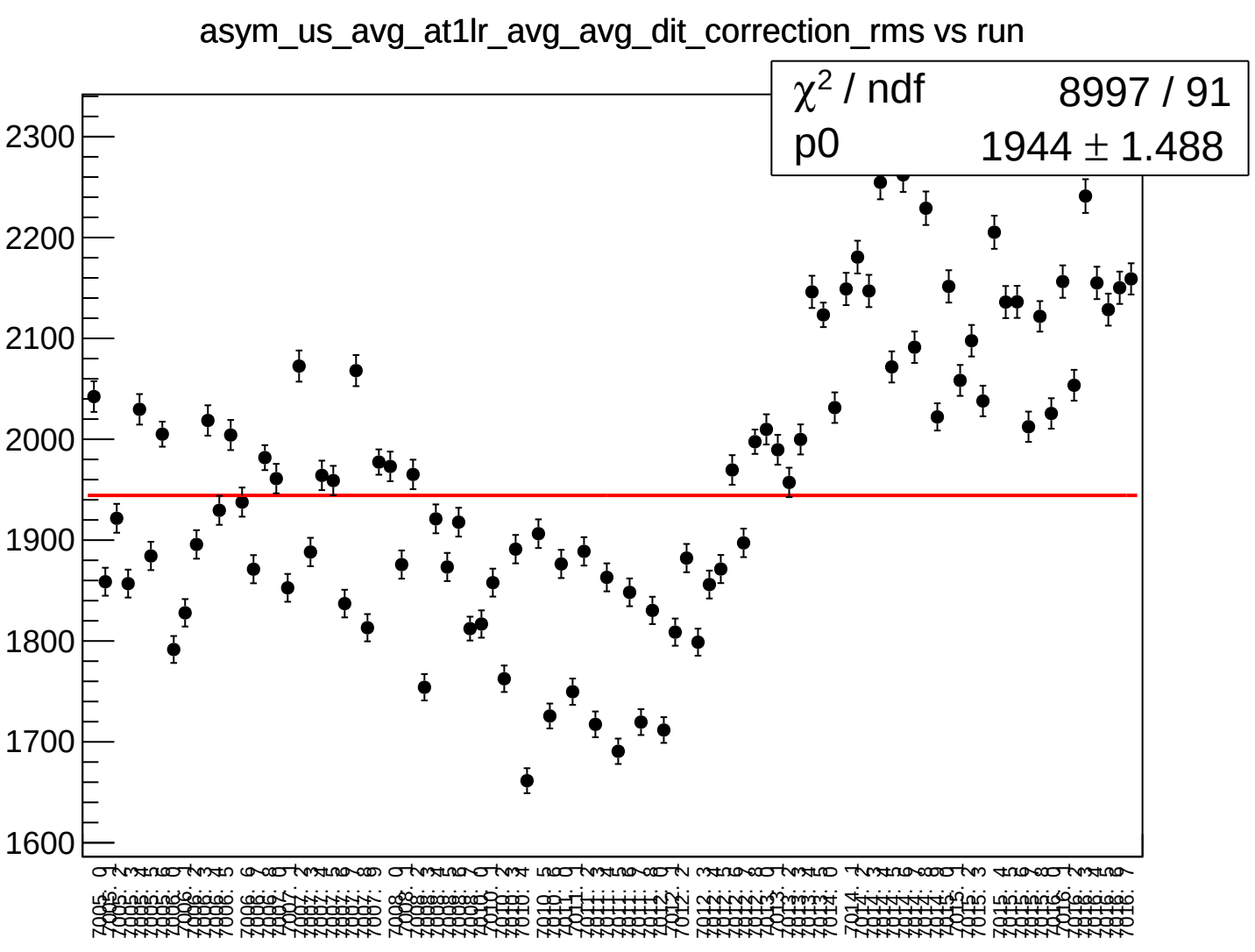

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 100.4 / 91
p0 6133 ± 2376
pull
Entries 92
Mean −42.07
Std Dev 0

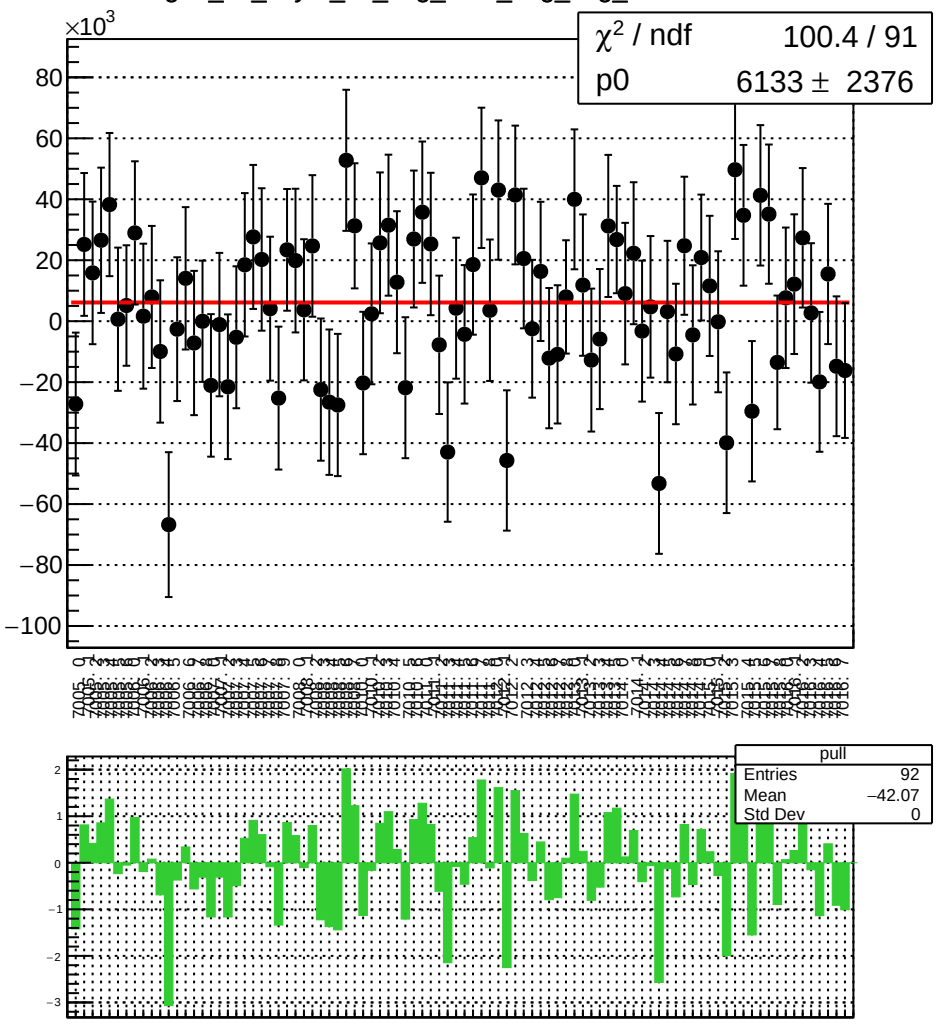

pull1D
Entries 92
Mean −0.008944
Std Dev 1.045

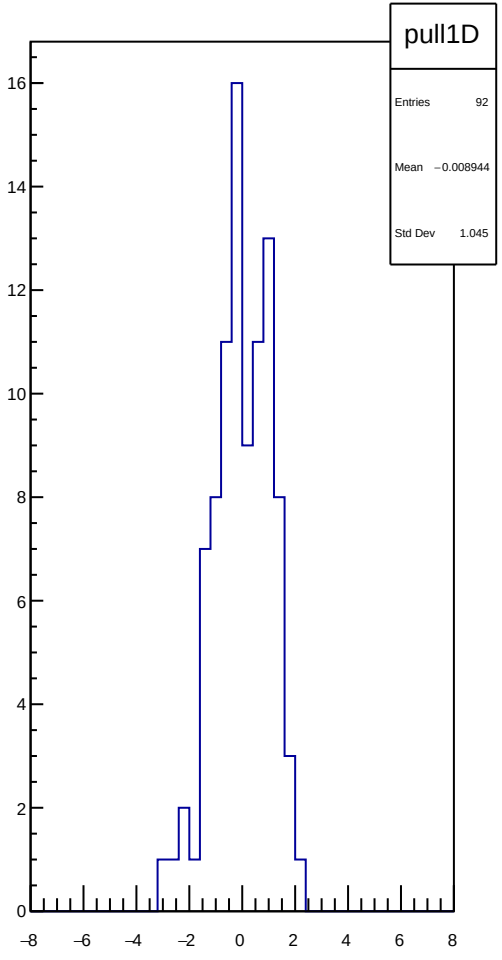

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 289 / 91
p0 2200 ± 1.68
2280
2260
2240
2220
2200
2180
2160
2140
2120

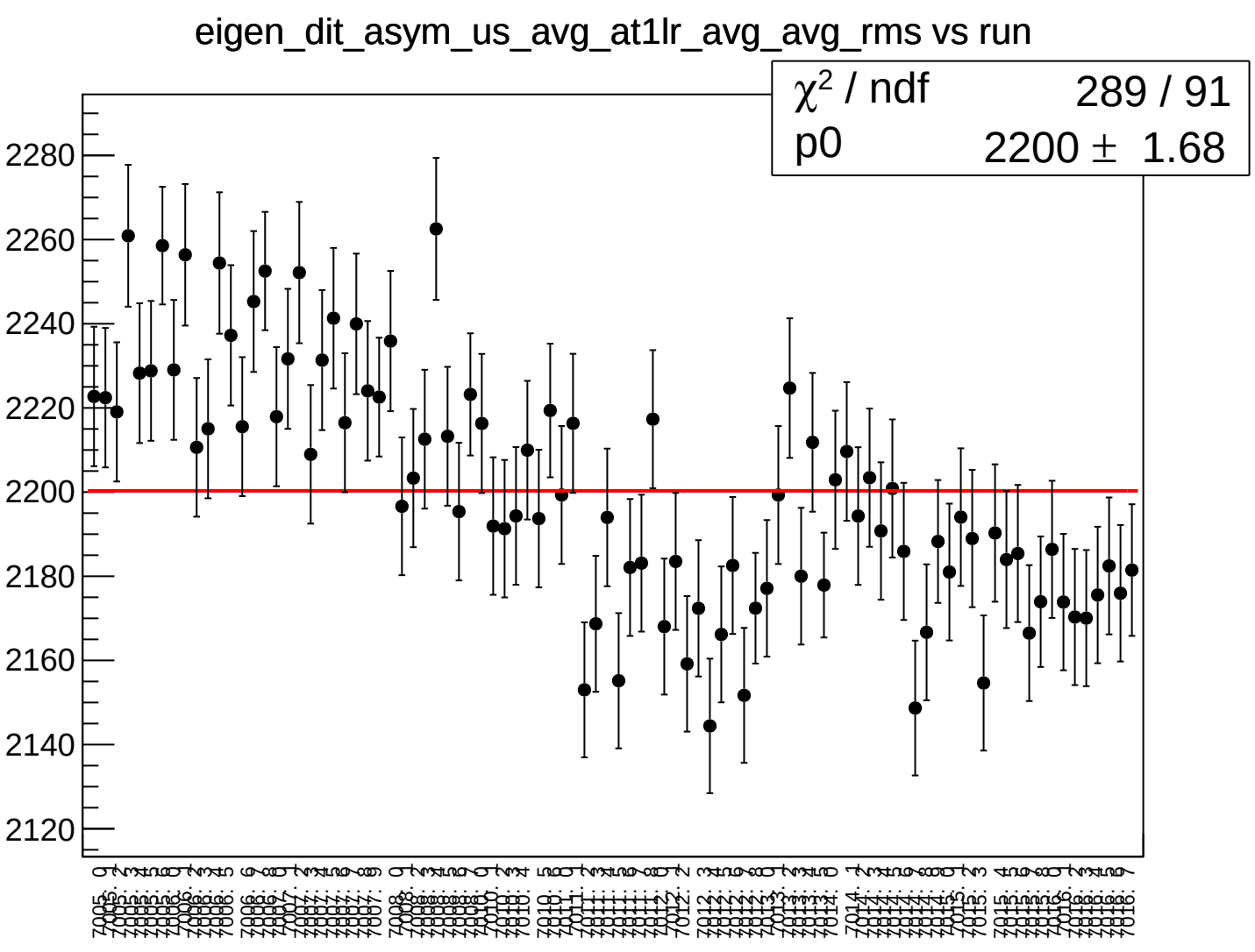

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 86.07 / 91
p0 −5717 ± 2105
pull
Entries 92
Mean −1.378e+04
Std Dev 0

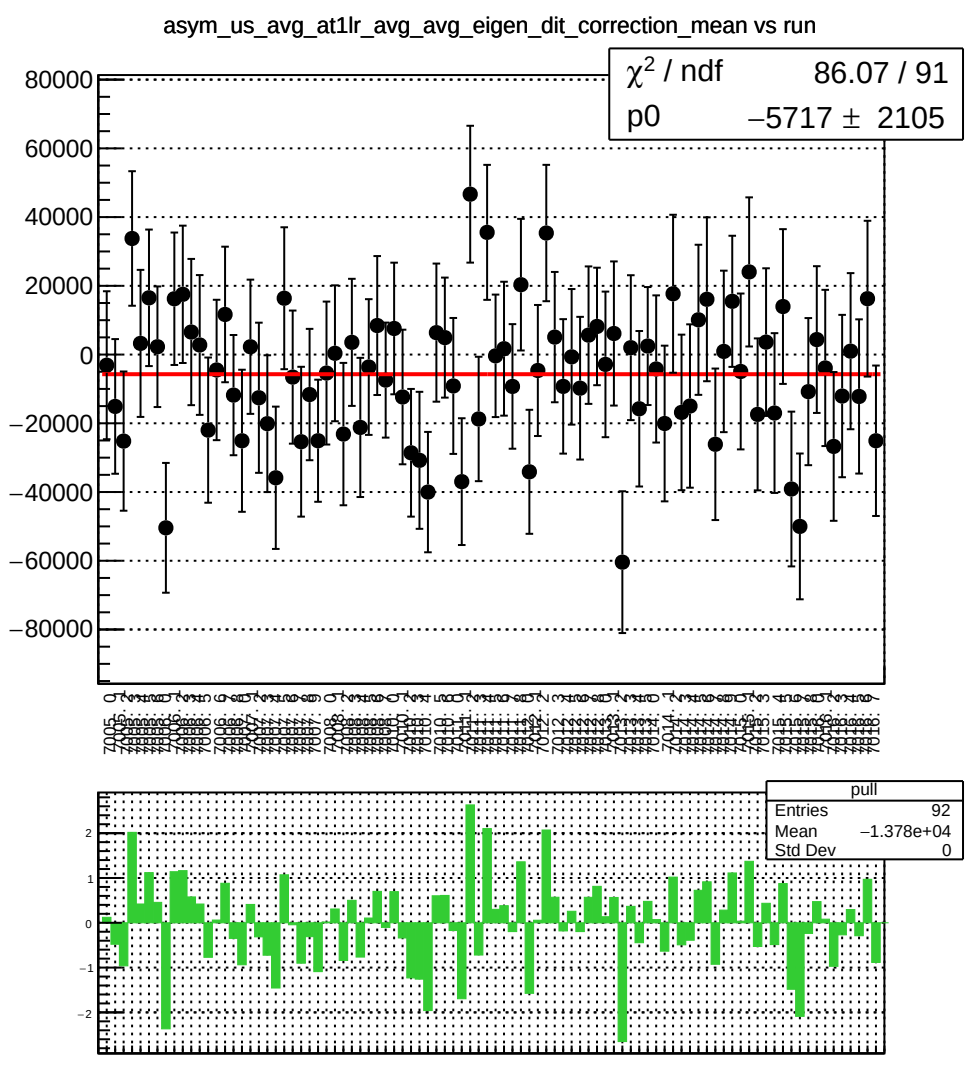

pull1D
Entries 92
Mean 4.265e−05
Std Dev 0.9672

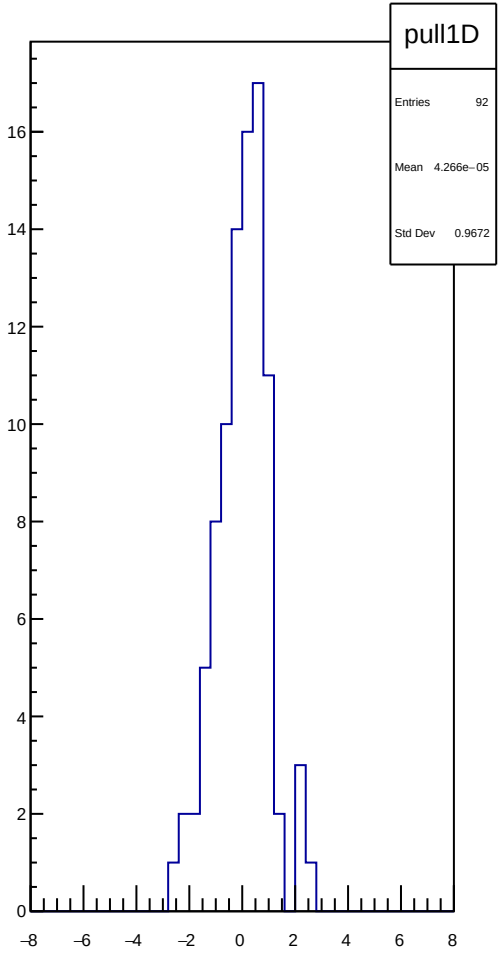

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 8997 / 91
p0 1944 ± 1.488
2300
2200
2100
2000
1900
1800
1700
1600

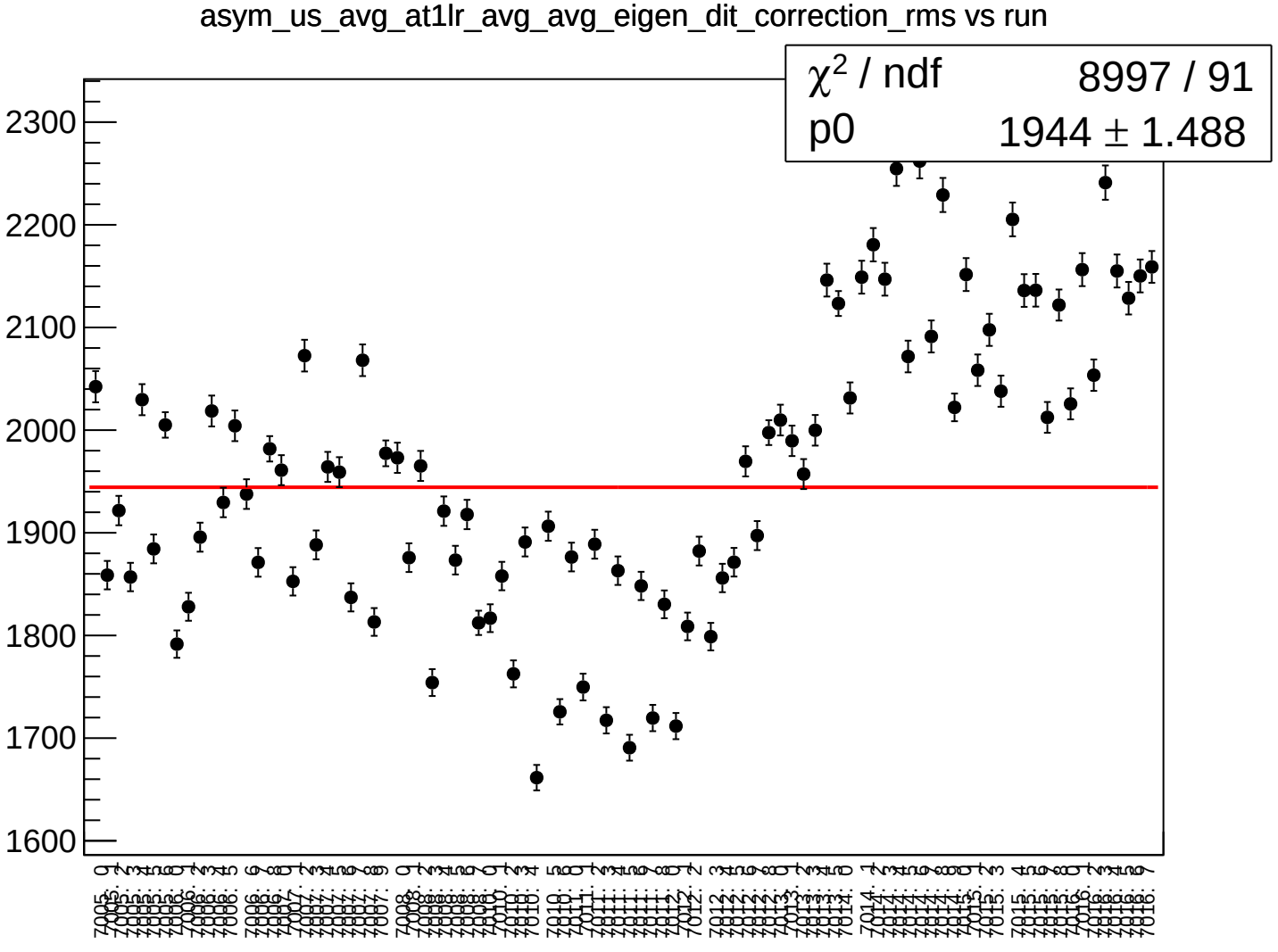

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 100.4 / 91
p0 6133 ± 2376
pull
Entries 92
Mean −42.07
Std Dev 0

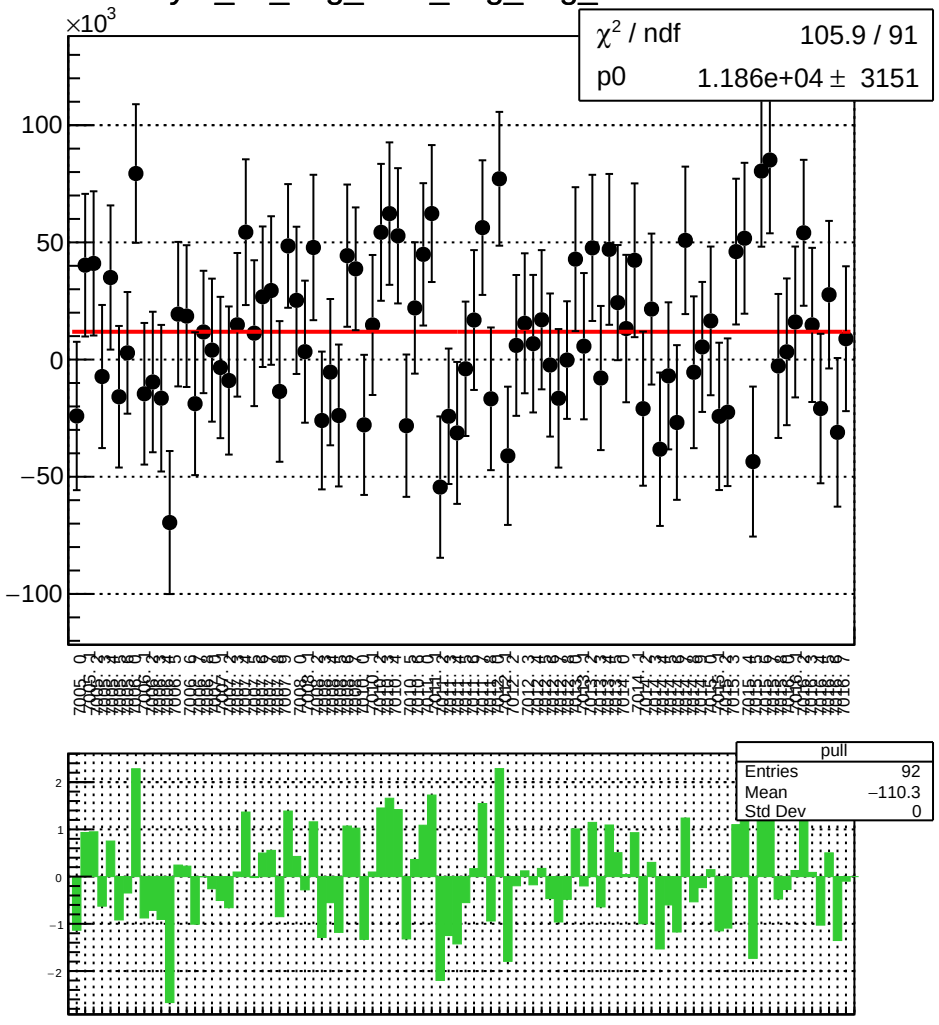

pull1D
Entries 92
Mean −0.008944
Std Dev 1.045

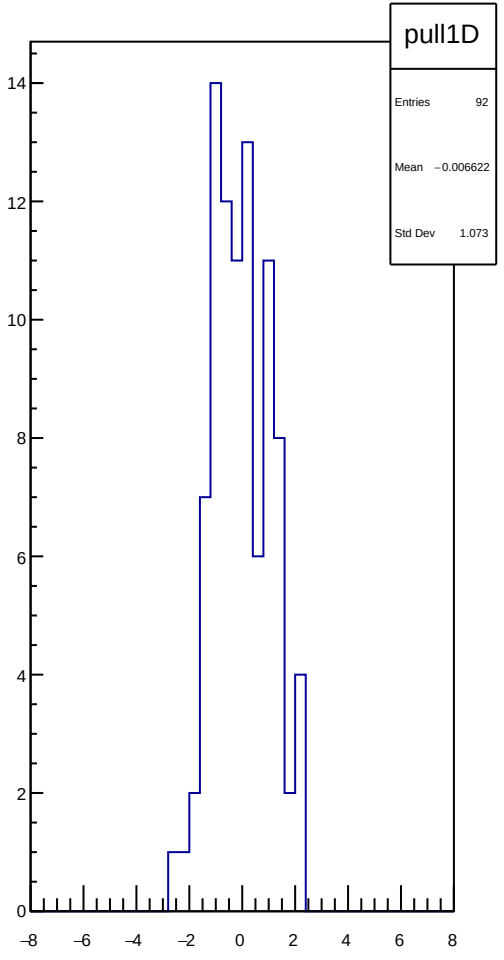

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 289 / 91
p0 2200 ± 1.68
2280
2260
2240
2220
2200
2180
2160
2140
2120

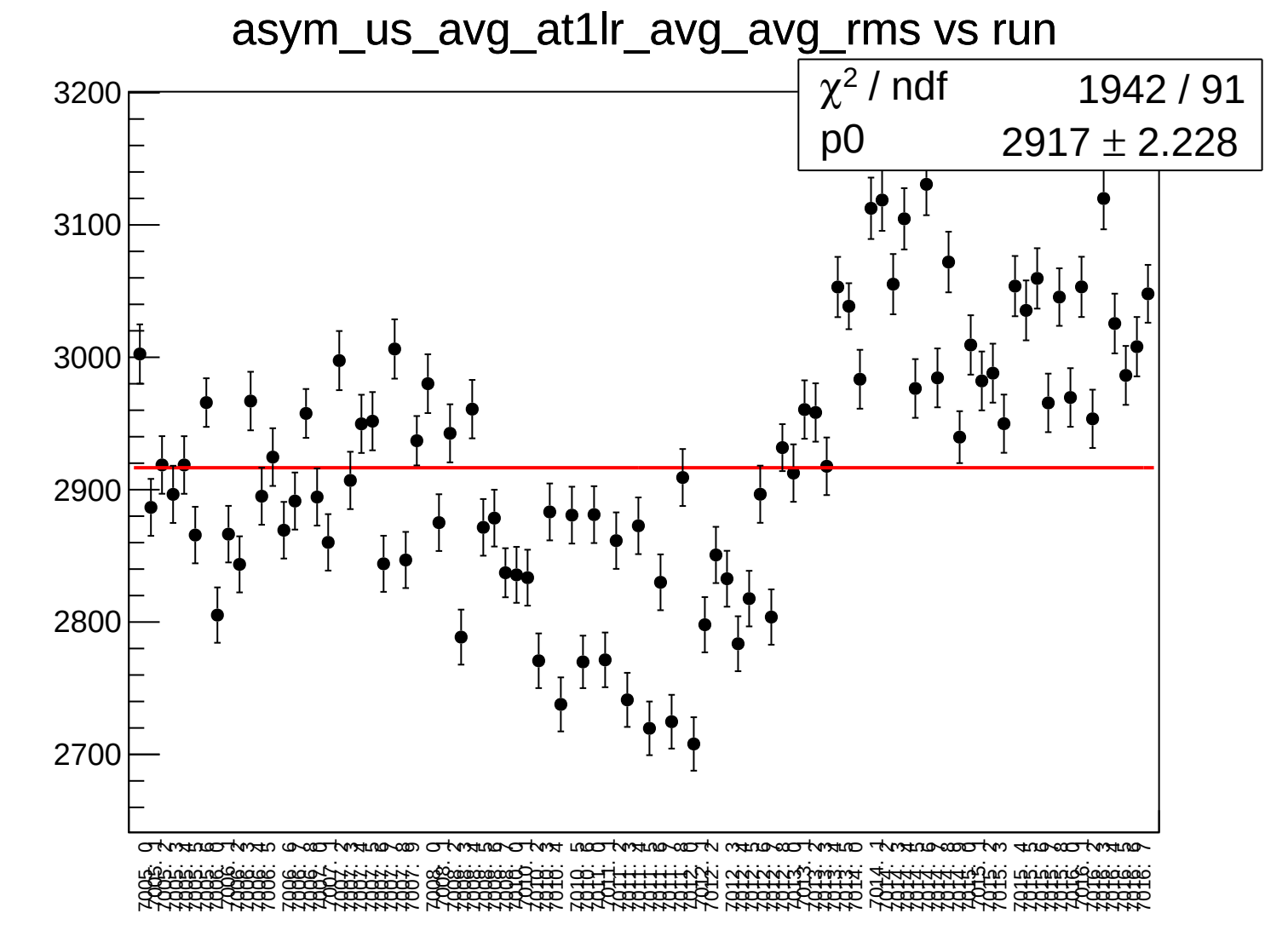

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.07 / 91
p0 −5717 ± 2105
pull
Entries 92
Mean −1.378e+04
Std Dev 0

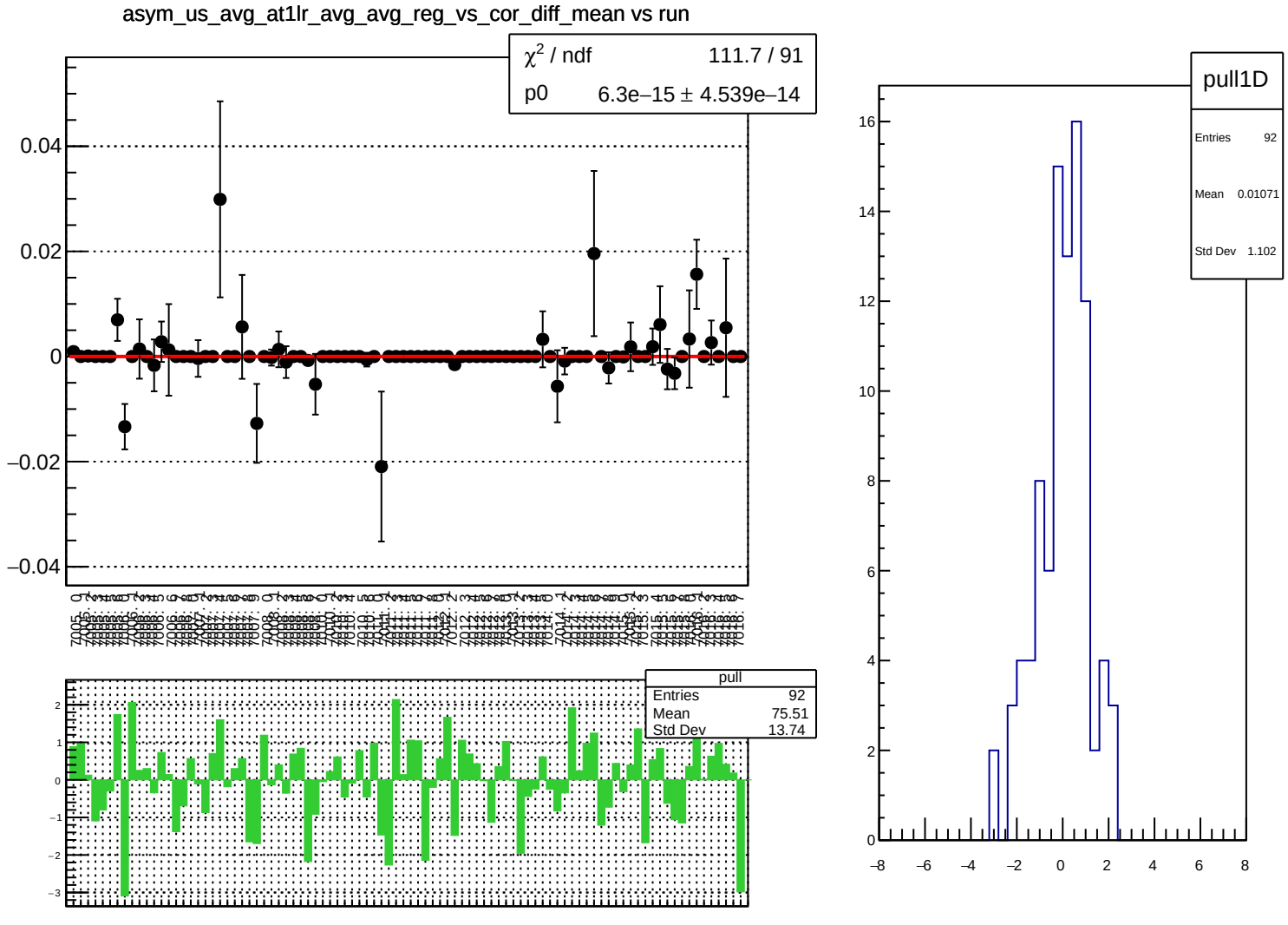

pull1D
Entries 92
Mean 4.266e−05
Std Dev 0.9672

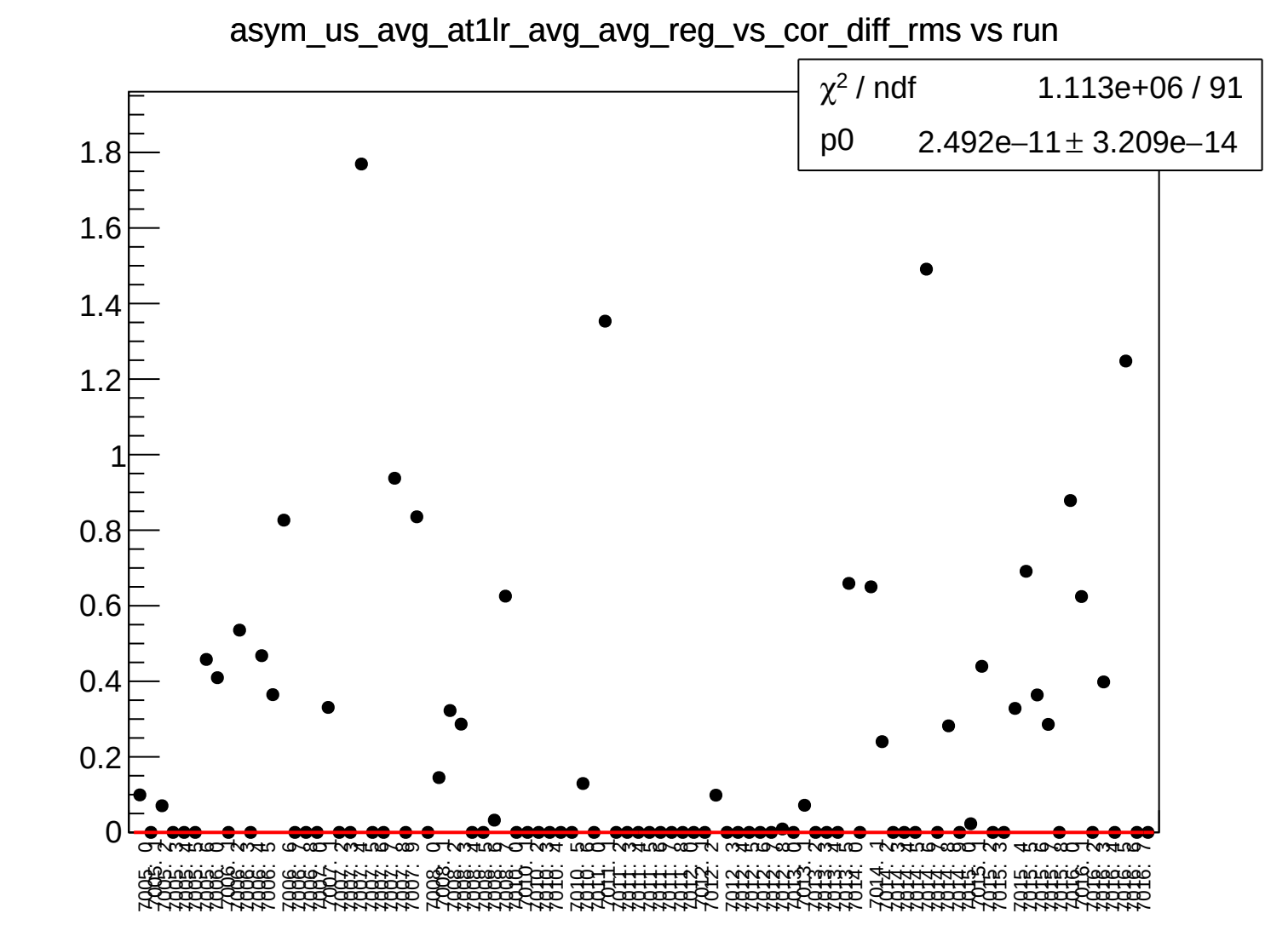

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 8997 / 91
p0 1944 ± 1.488
2300
2200
2100
2000
1900
1800
1700
1600

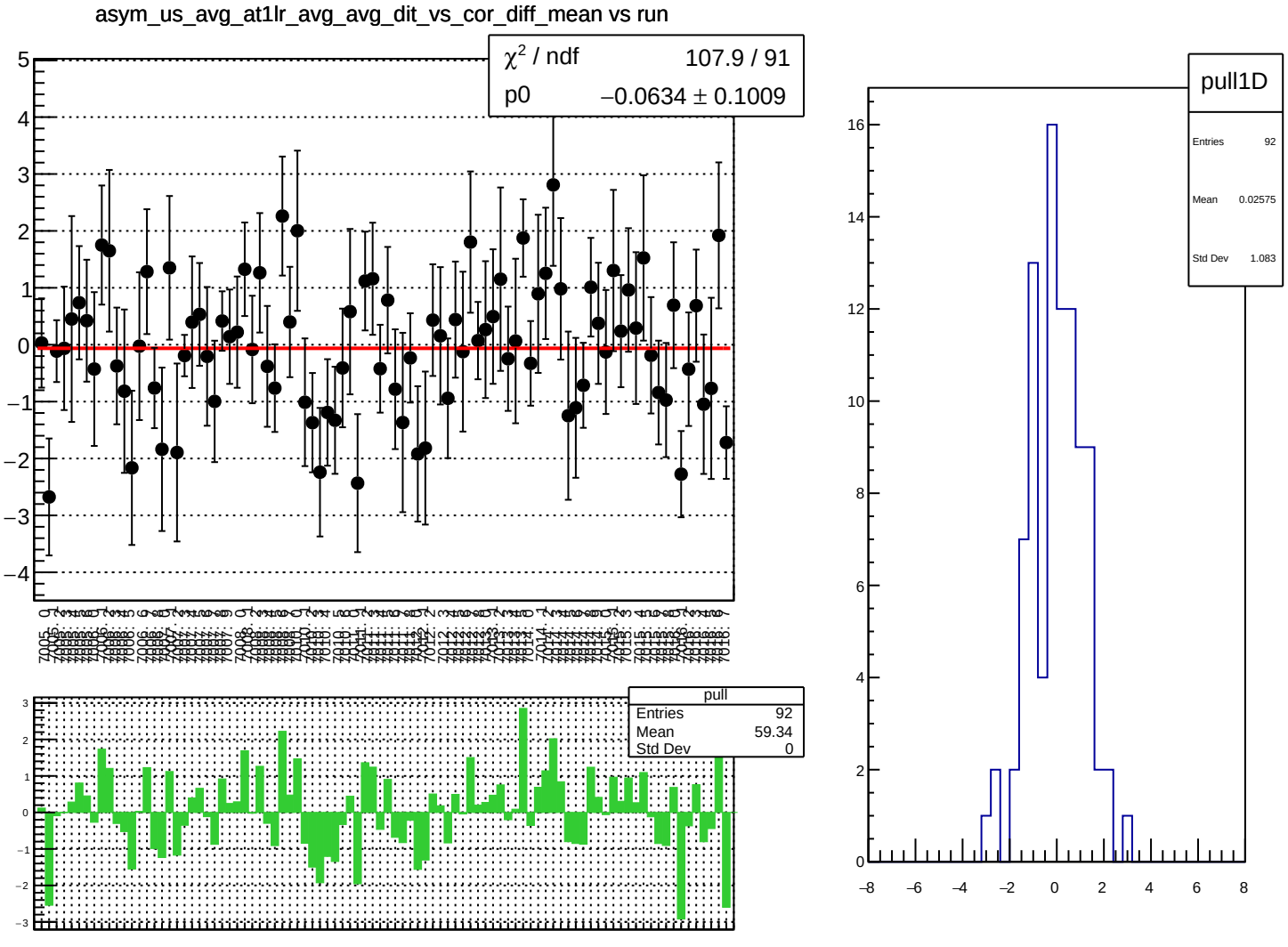

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 105.9 / 91
p0 1.186e+04 ± 3151
100
50
0
−50
−100
pull
Entries 92
Mean −110.3
Std Dev 0
2
1
0
−1
−2

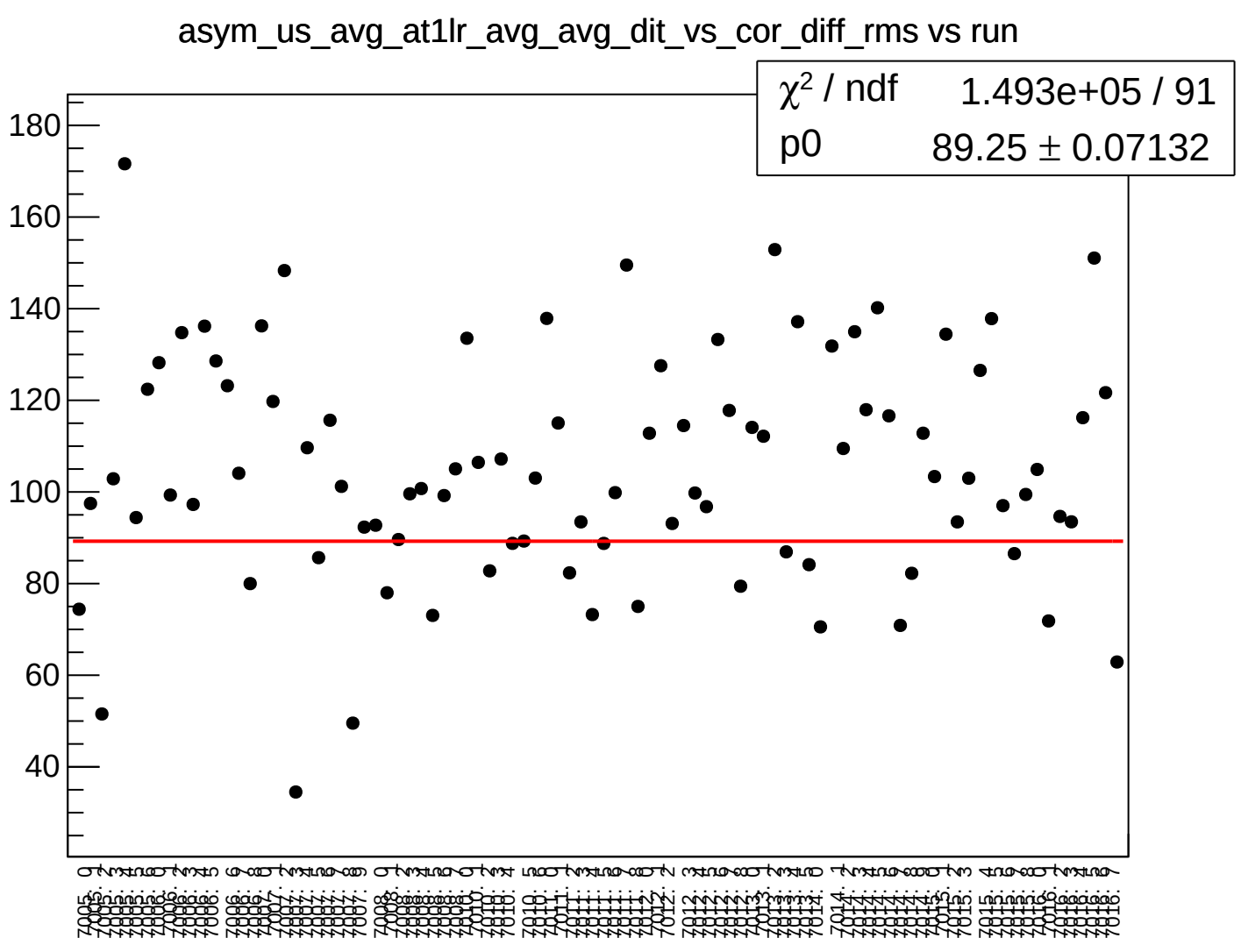

pull1D
Entries 92
Mean −0.006622
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

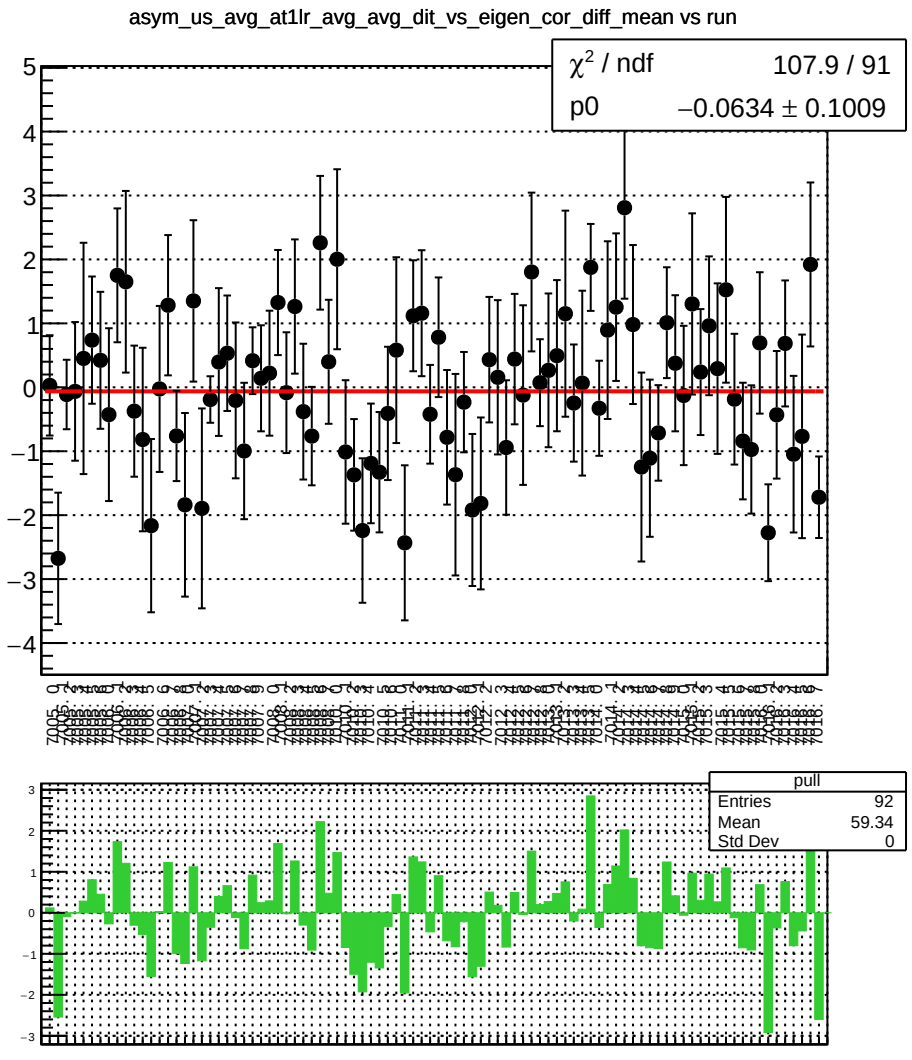

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1942 / 91
p0 2917 ± 2.228
3200
3100
3000
2900
2800
2700

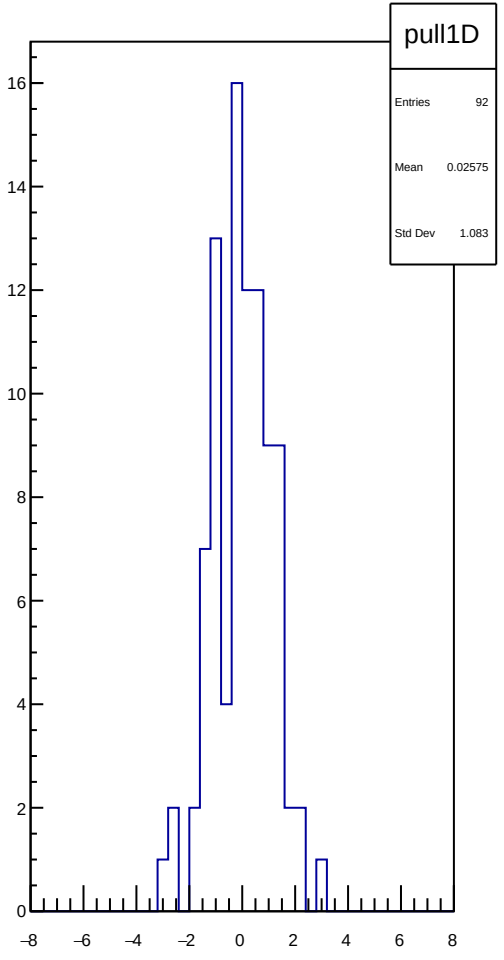

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 111.7 / 91
p0 6.3e−15 ± 4.539e−14
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean 75.51
Std Dev 13.74
pull1D
Entries 92
Mean 0.01071
Std Dev 1.102

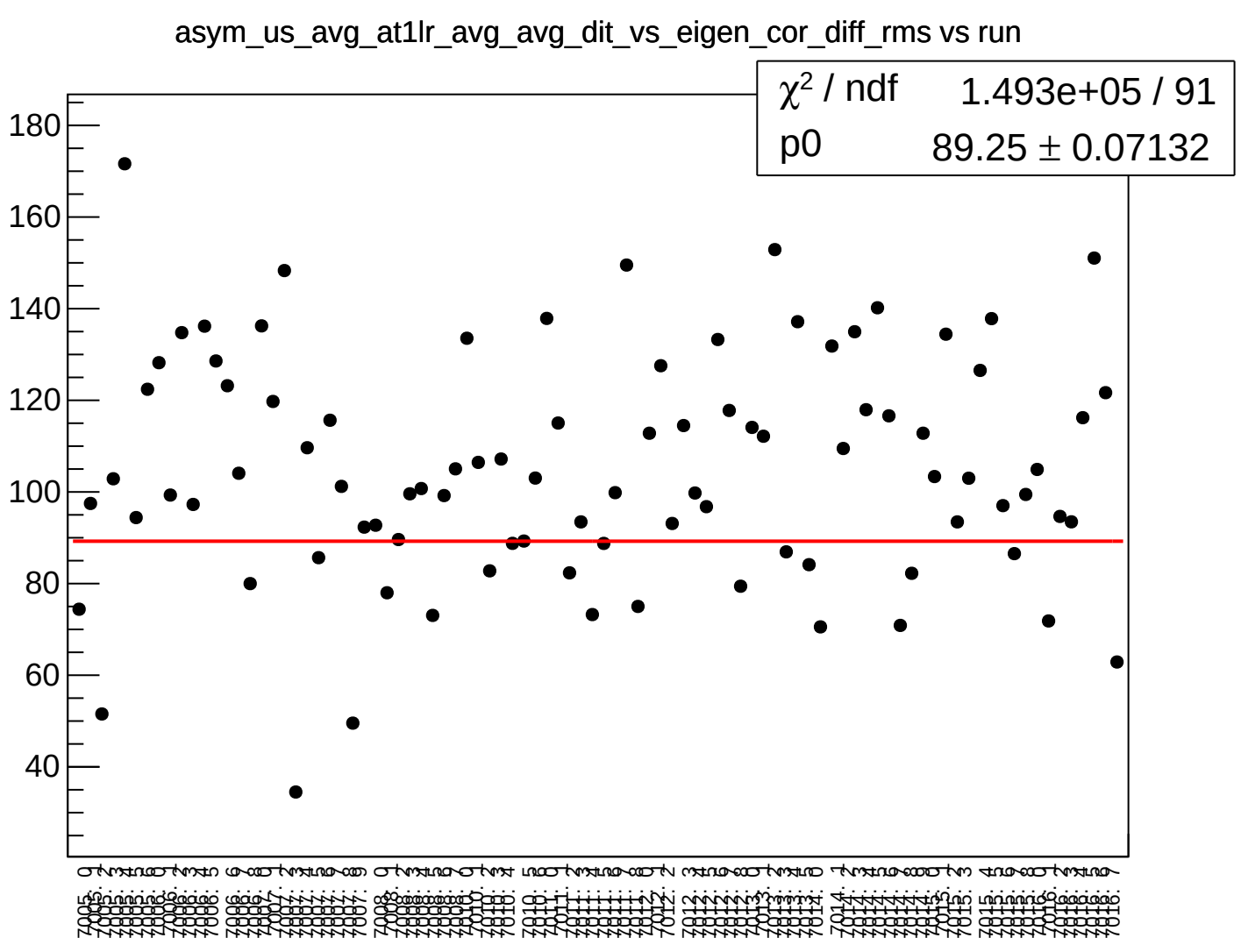

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.113e+06 / 91
p0 2.492e−11 ± 3.209e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

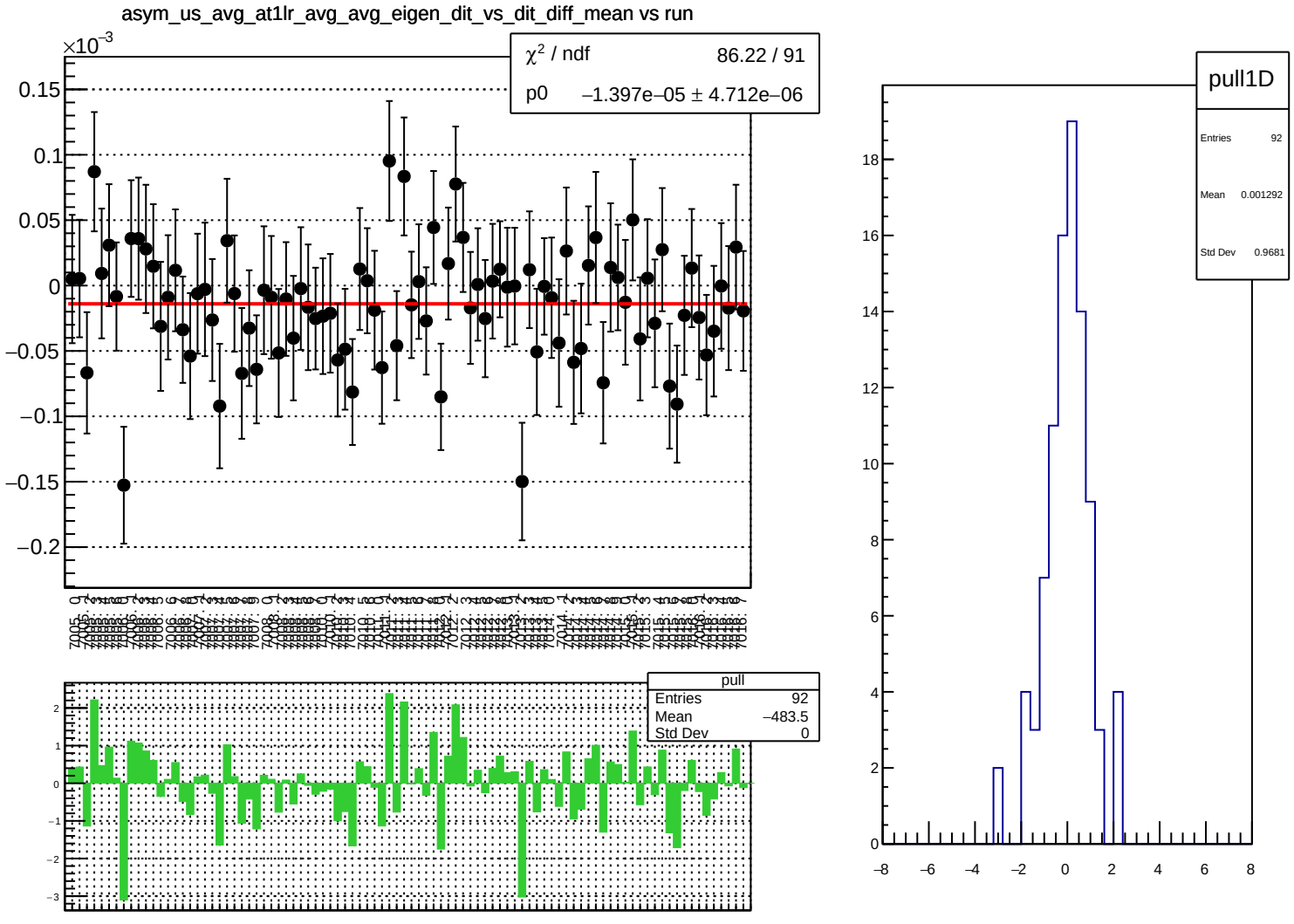

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 91
p0 −0.0634 ± 0.1009
pull
Entries 92
Mean 59.34
Std Dev 0
pull1D
Entries 92
Mean 0.02575
Std Dev 1.083

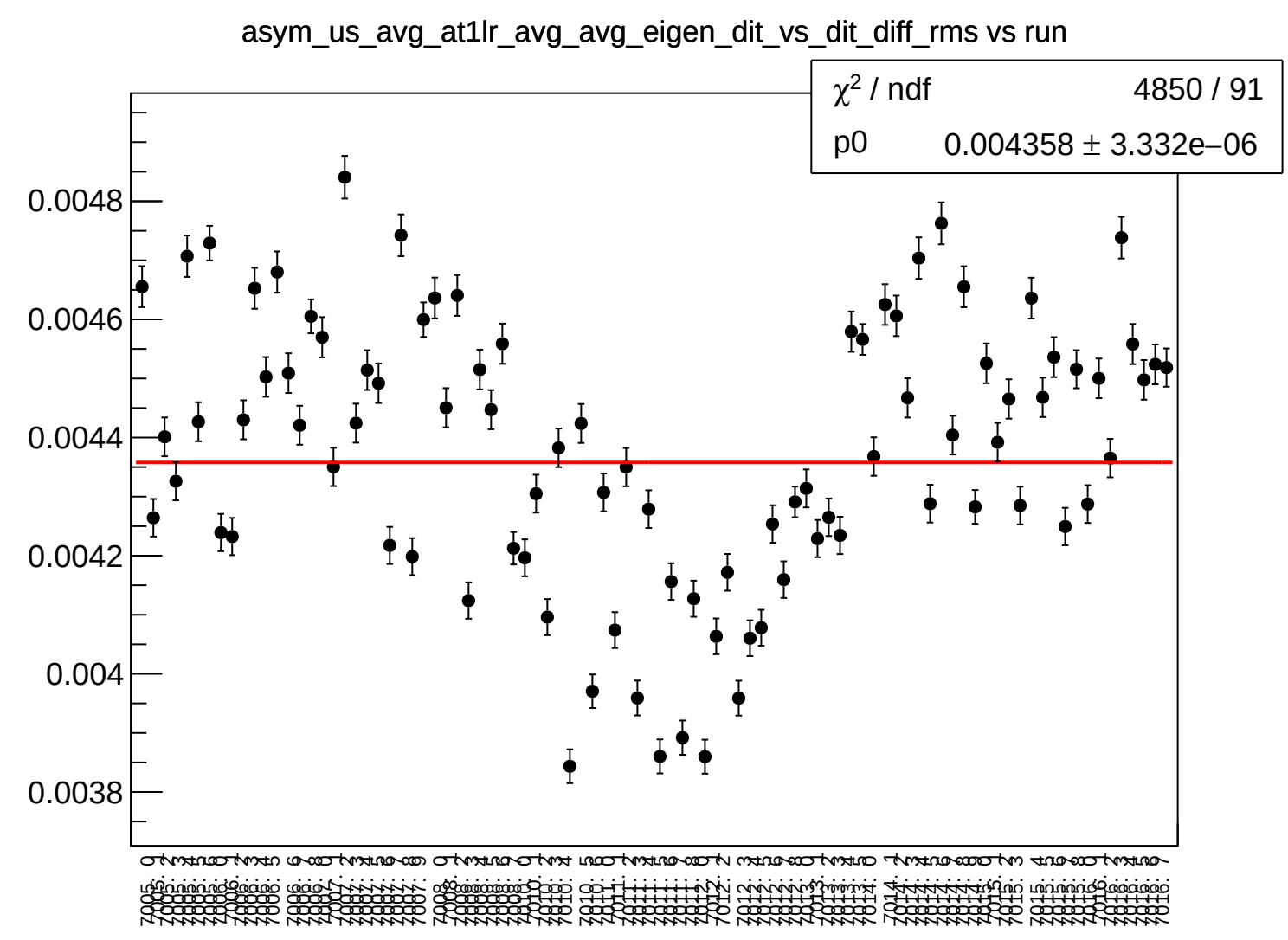

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.493e+05 / 91
p0 89.25 ± 0.07132
180
160
140
120
100
80
60
40

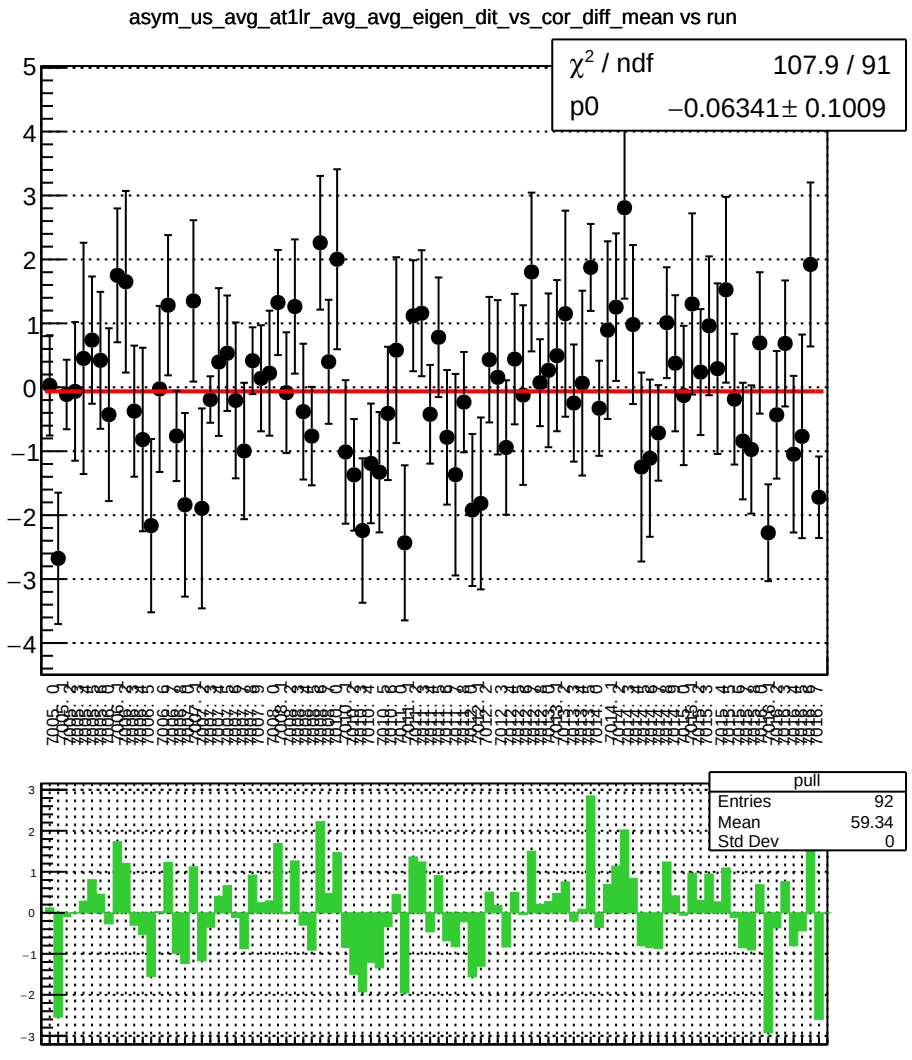

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 91
p0 −0.0634 ± 0.1009
pull
Entries 92
Mean 59.34
Std Dev 0

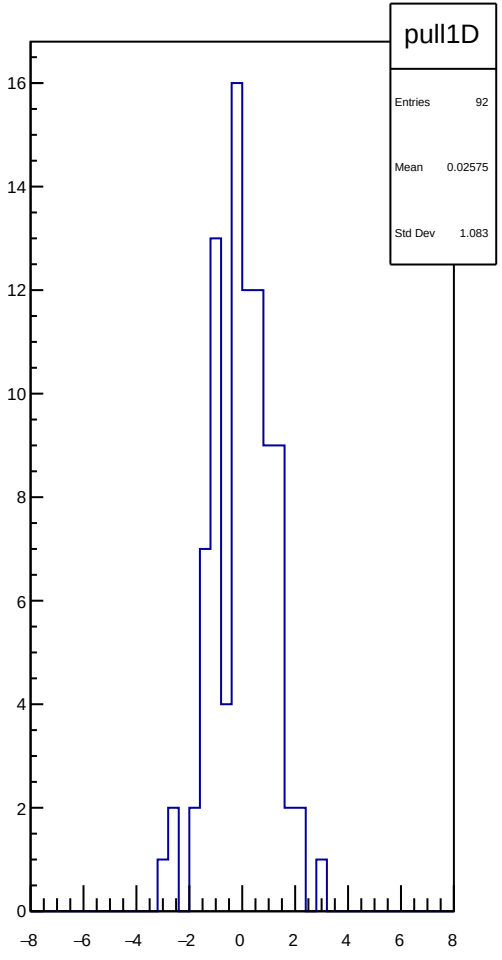

pull1D
Entries 92
Mean 0.02575
Std Dev 1.083

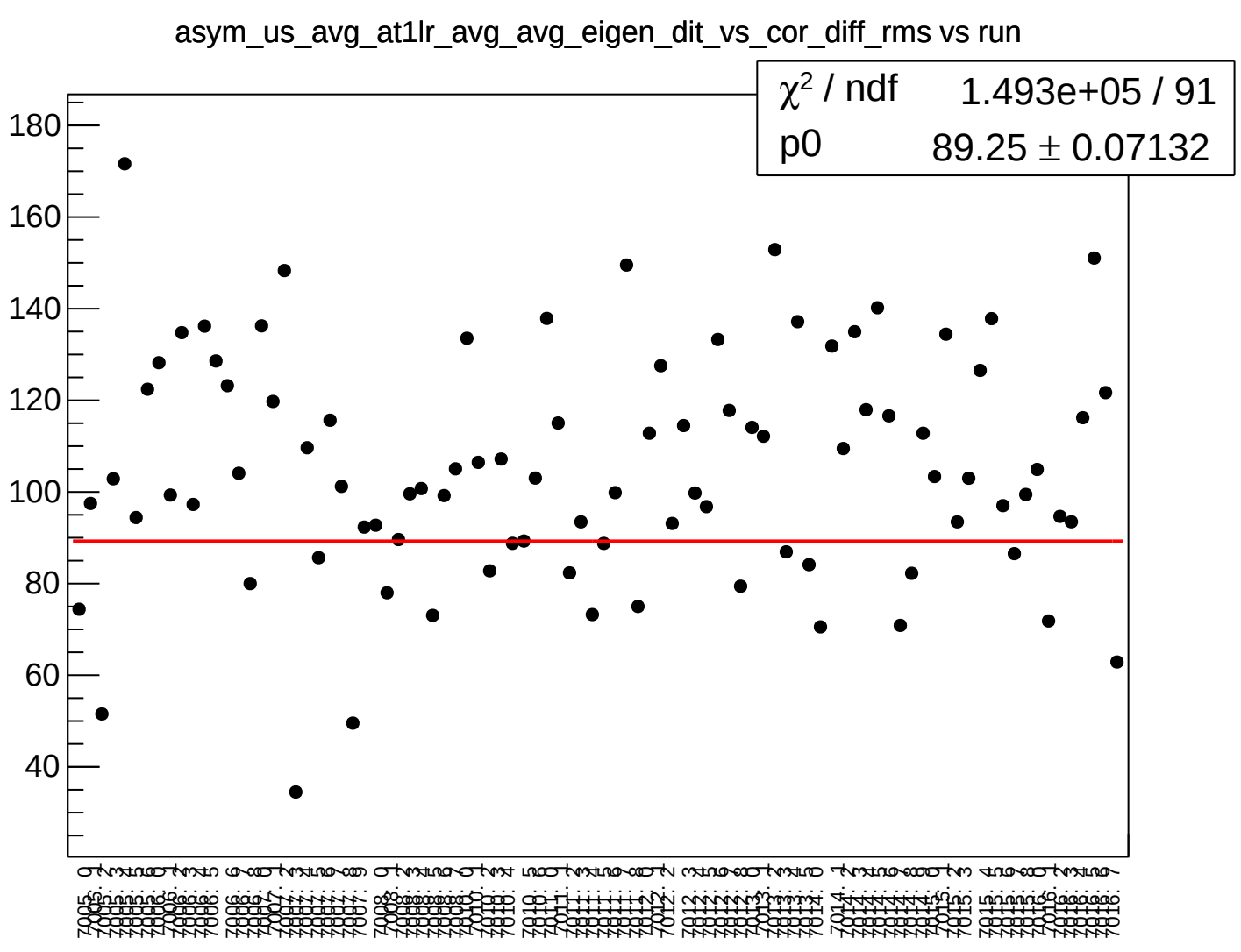

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.493e+05 / 91
p0 89.25 ± 0.07132
180
160
140
120
100
80
60
40

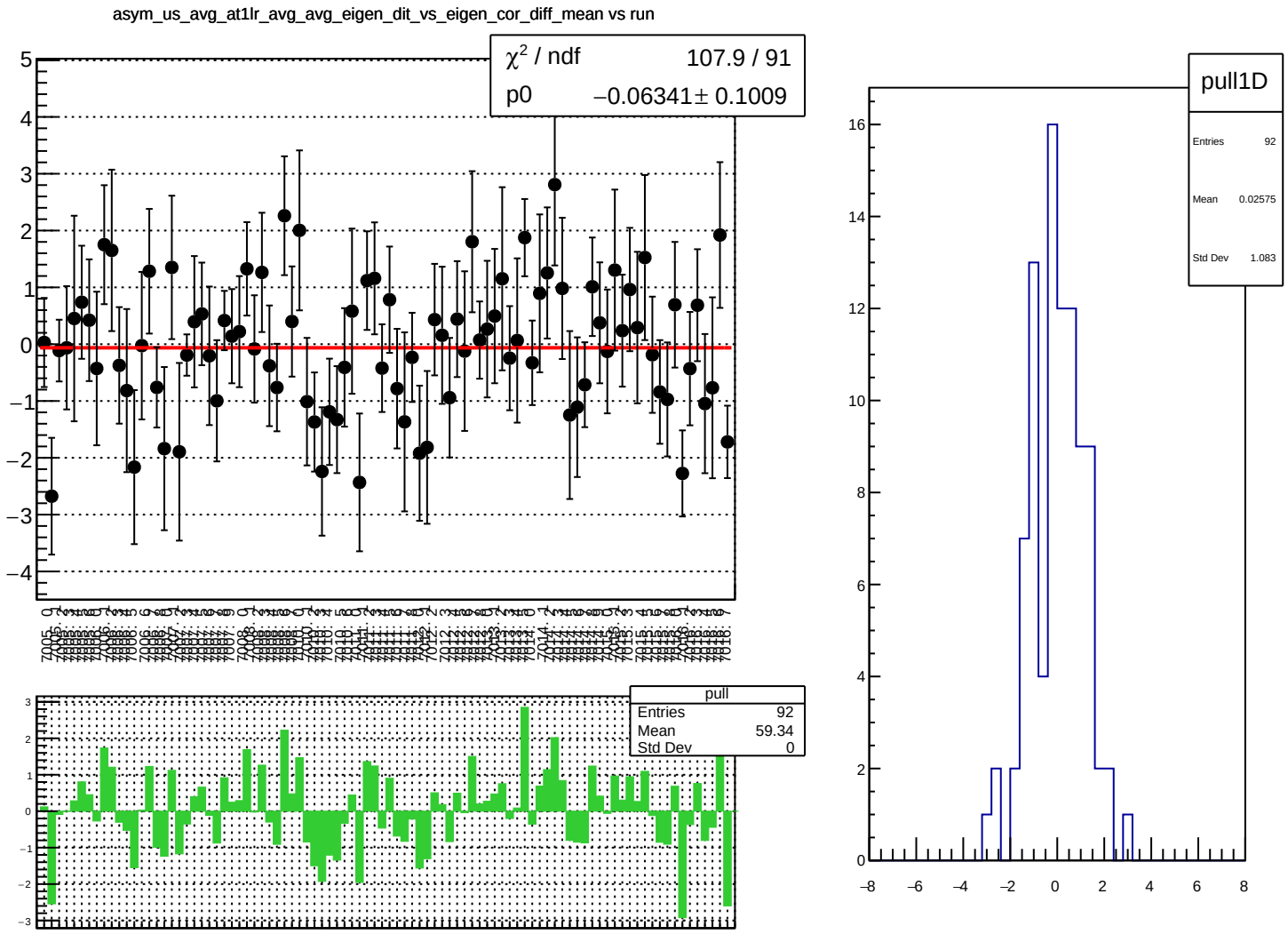

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.22 / 91
p0 −1.397e−05 ± 4.712e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 92
Mean −483.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.001292
Std Dev 0.9681
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

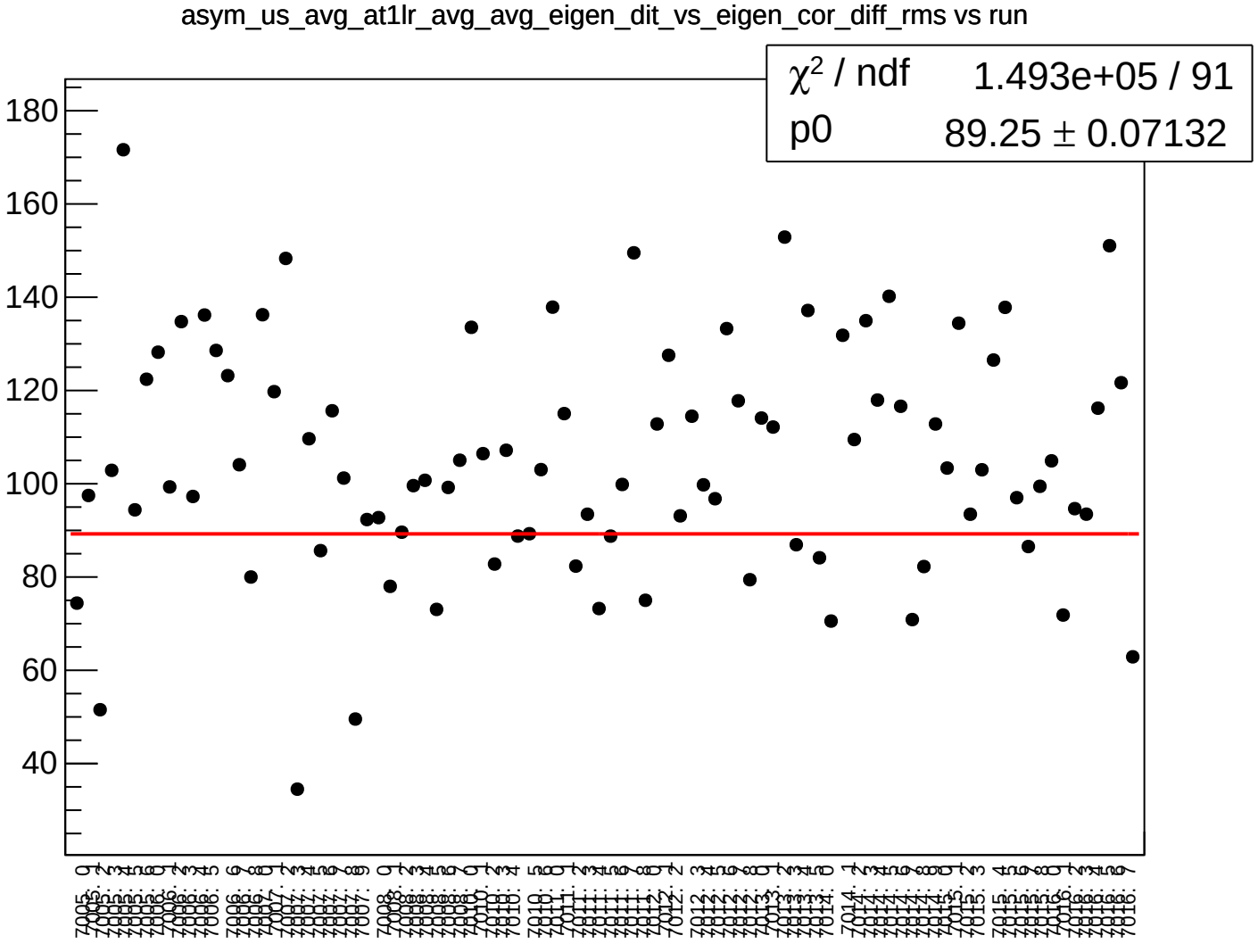

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4850 / 91
p0 0.004358 ± 3.332e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

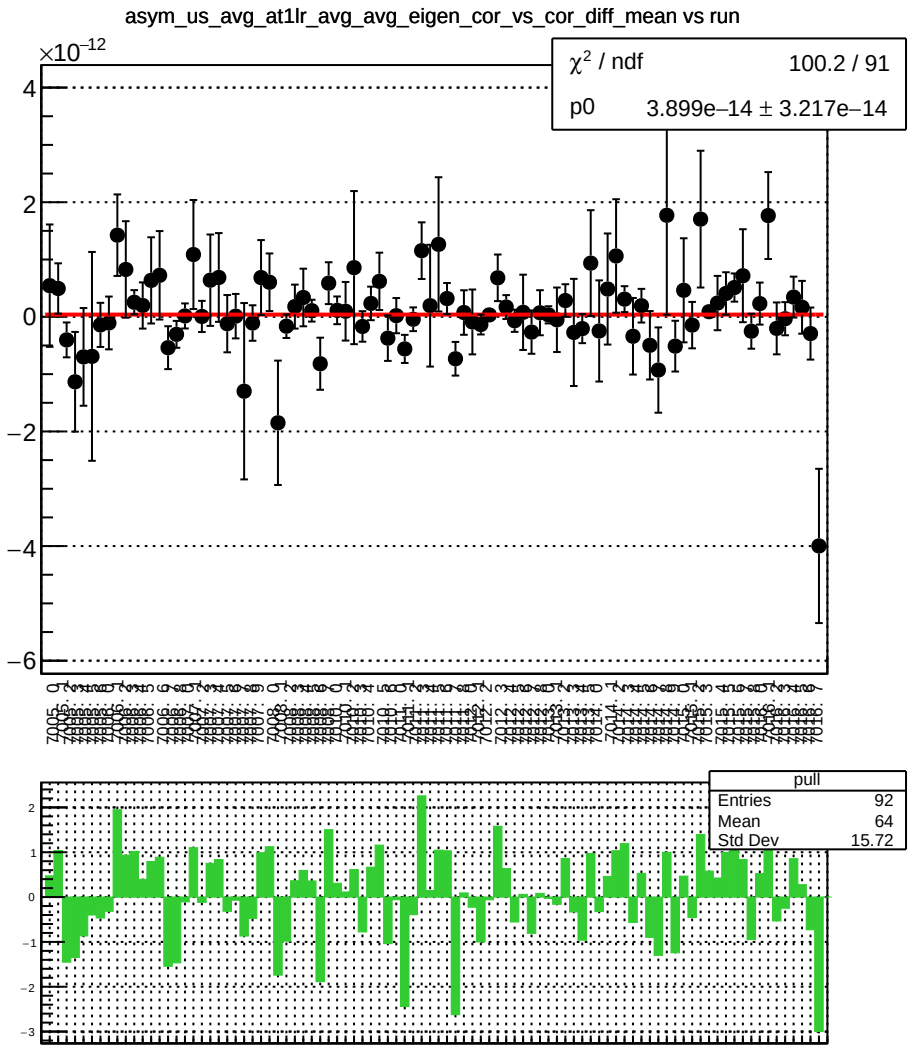

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 91
p0 −0.06341 ± 0.1009
pull
Entries 92
Mean 59.34
Std Dev 0

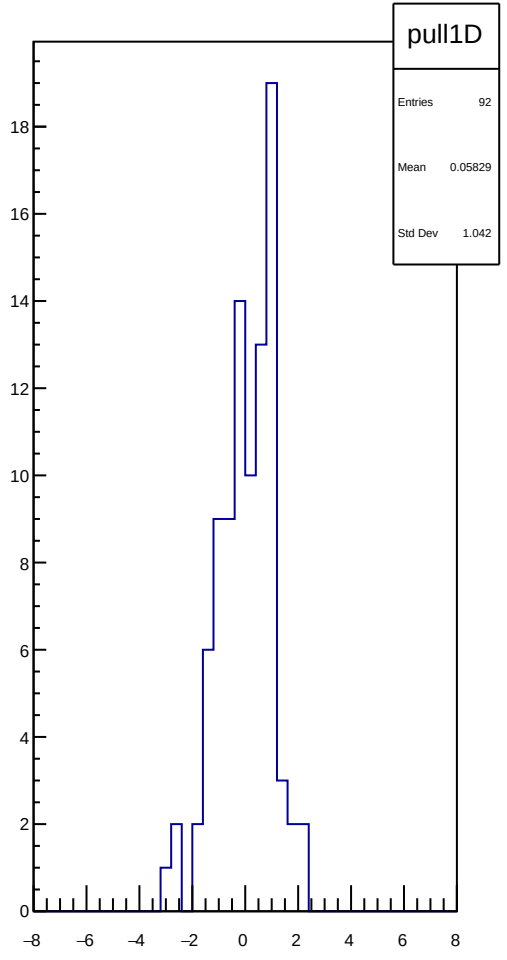

pull1D
Entries 92
Mean 0.02575
Std Dev 1.083

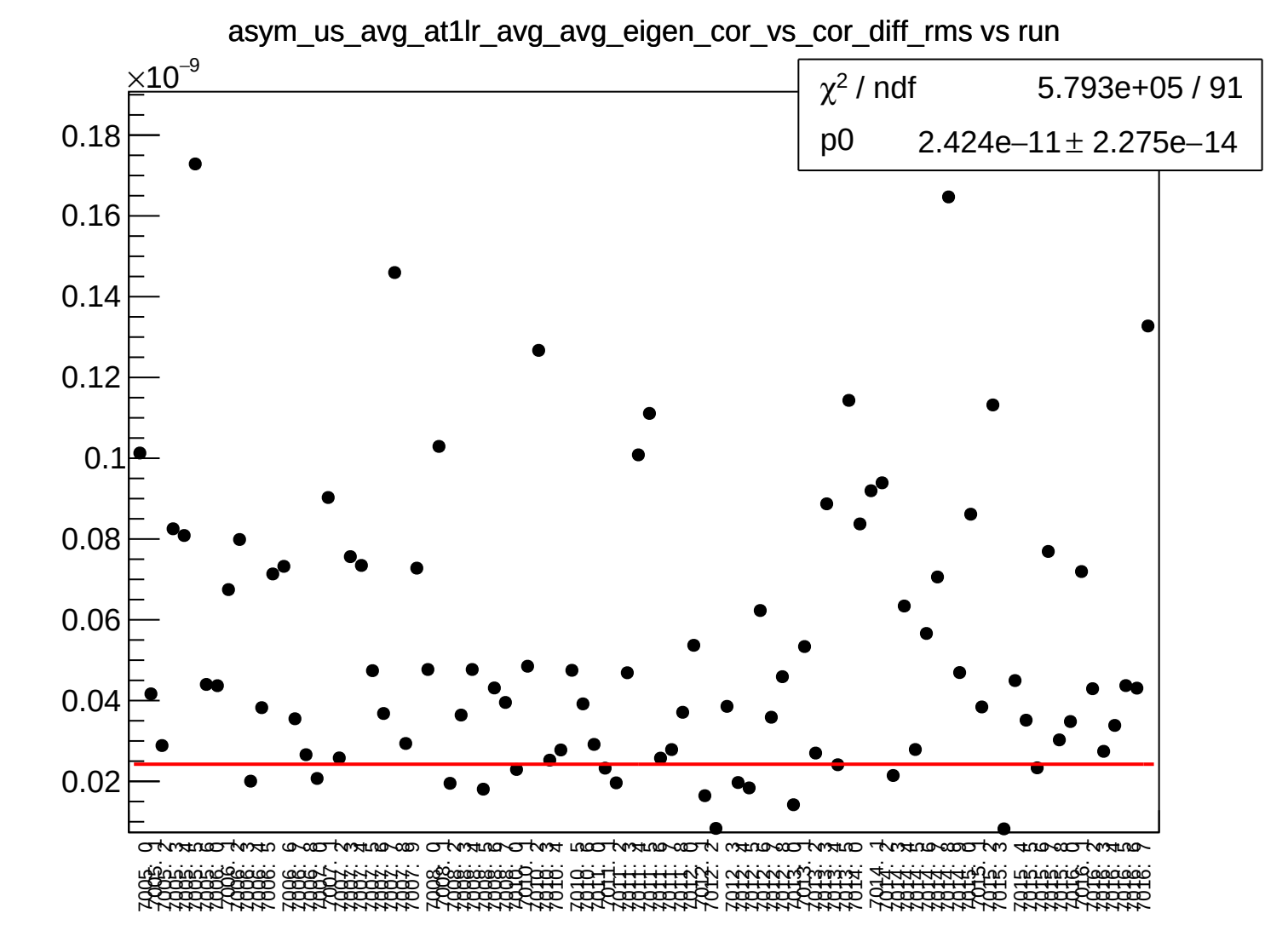

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.493e+05 / 91
p0 89.25 ± 0.07132
180
160
140
120
100
80
60
40

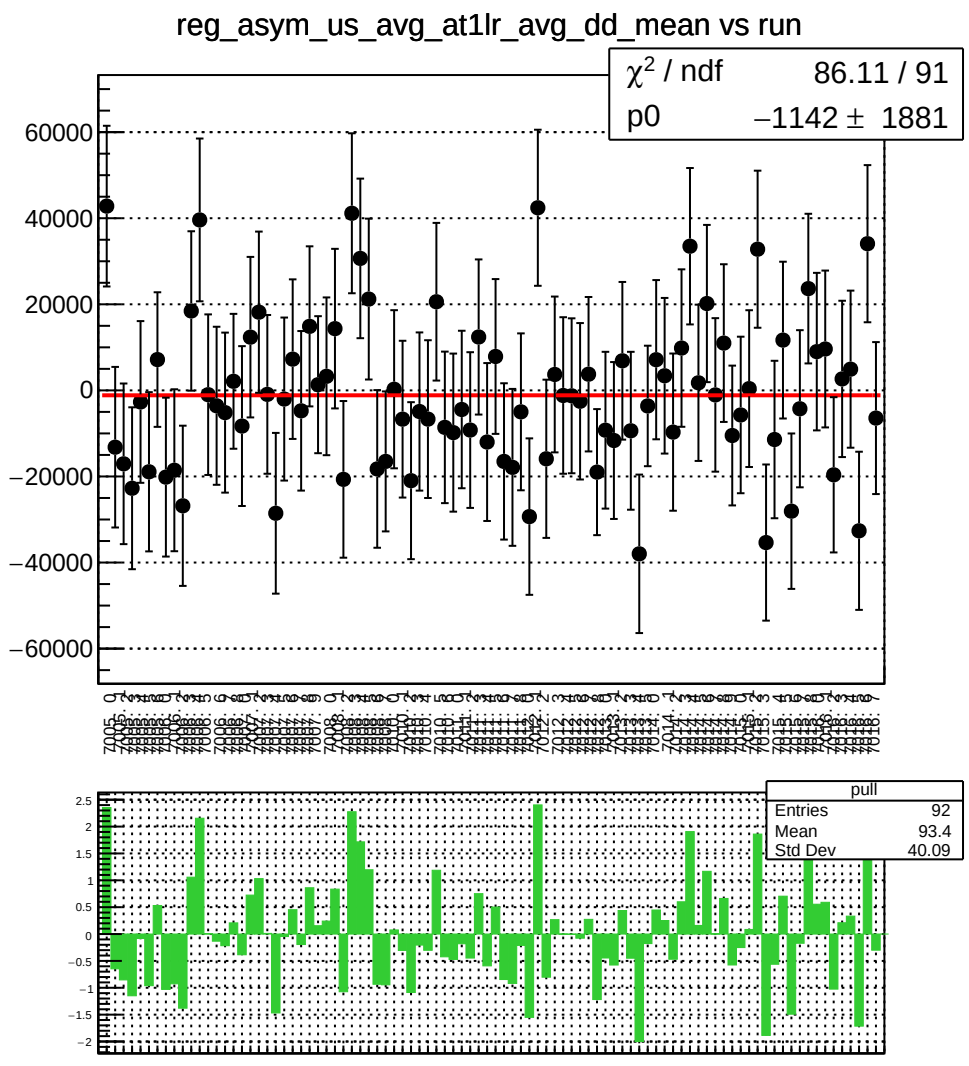

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.9 / 91
p0 −0.06341 ± 0.1009
pull
Entries 92
Mean 59.34
Std Dev 0
pull1D
Entries 92
Mean 0.02575
Std Dev 1.083

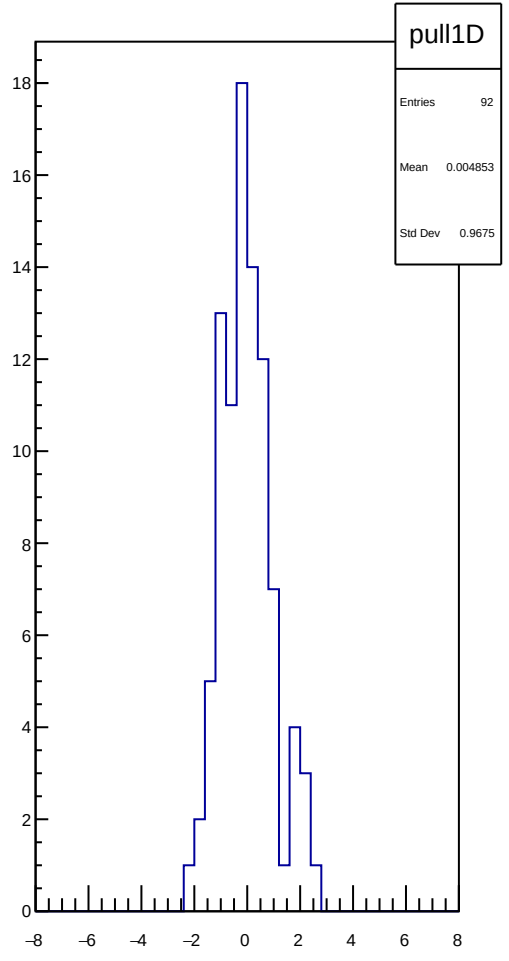

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.493e+05 / 91
p0 89.25 ± 0.07132
180
160
140
120
100
80
60
40

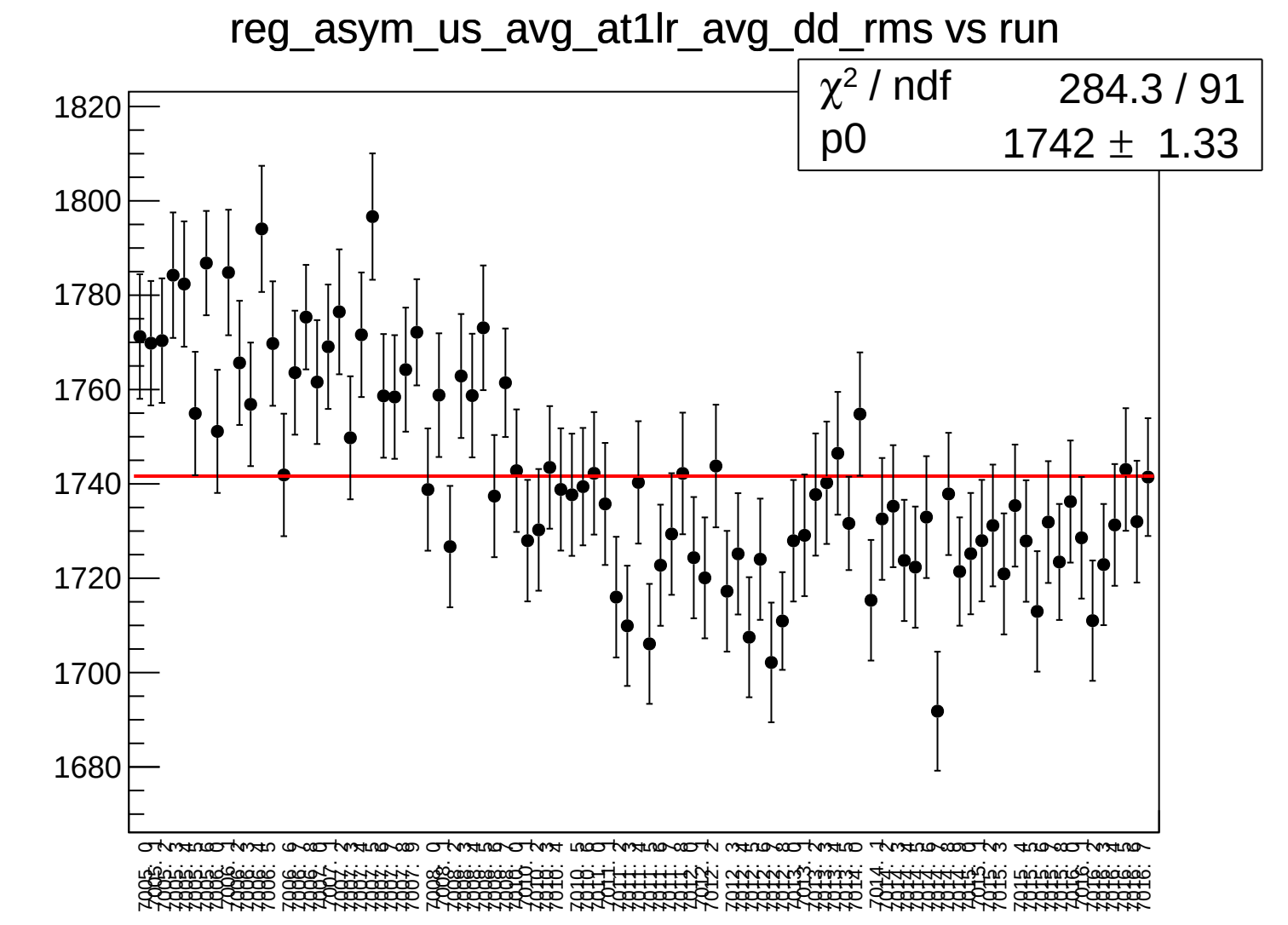

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.2 / 91
p0 3.899e−14 ± 3.217e−14
pull
Entries 92
Mean 64
Std Dev 15.72

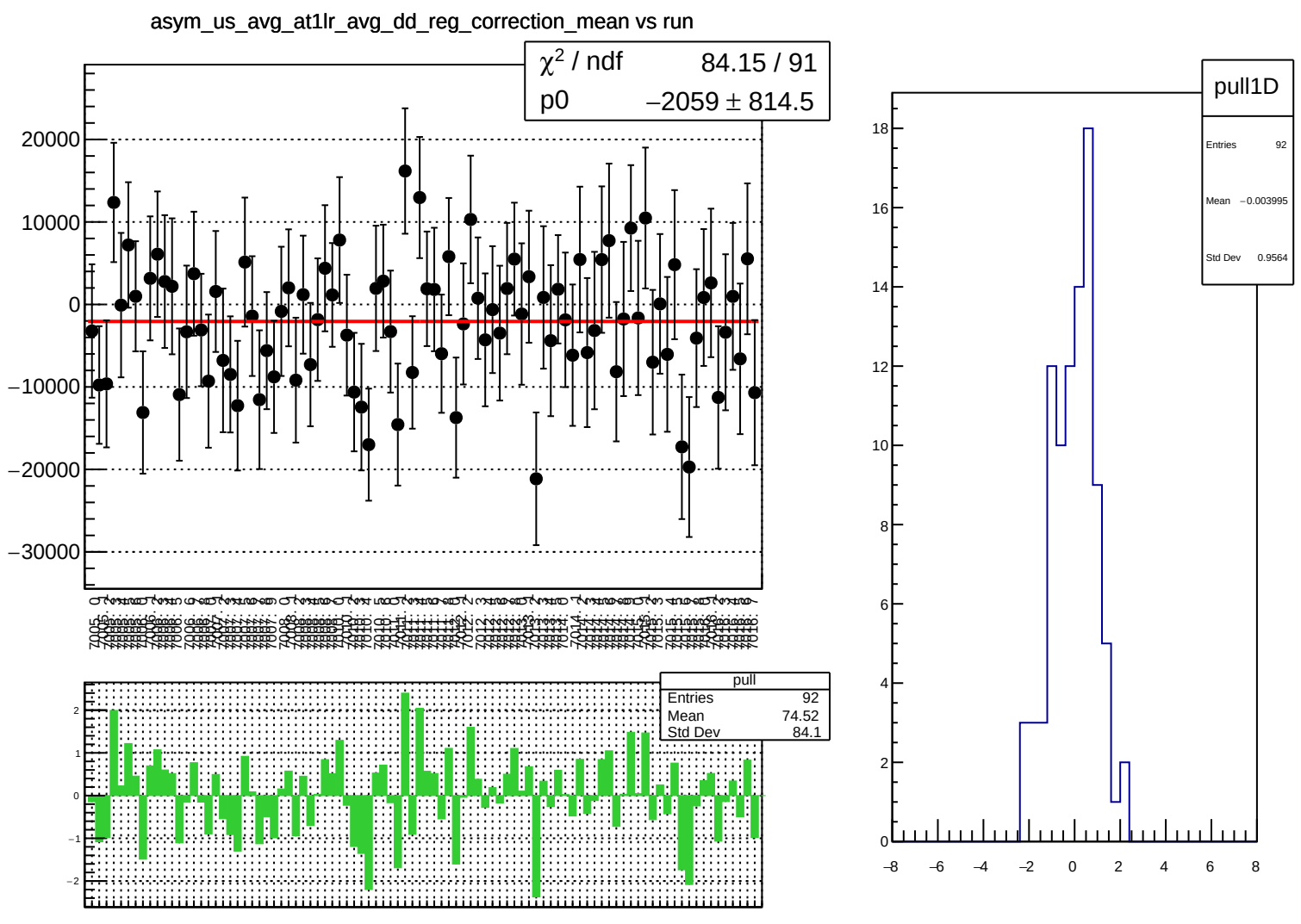

pull1D
Entries 92
Mean 0.05829
Std Dev 1.042

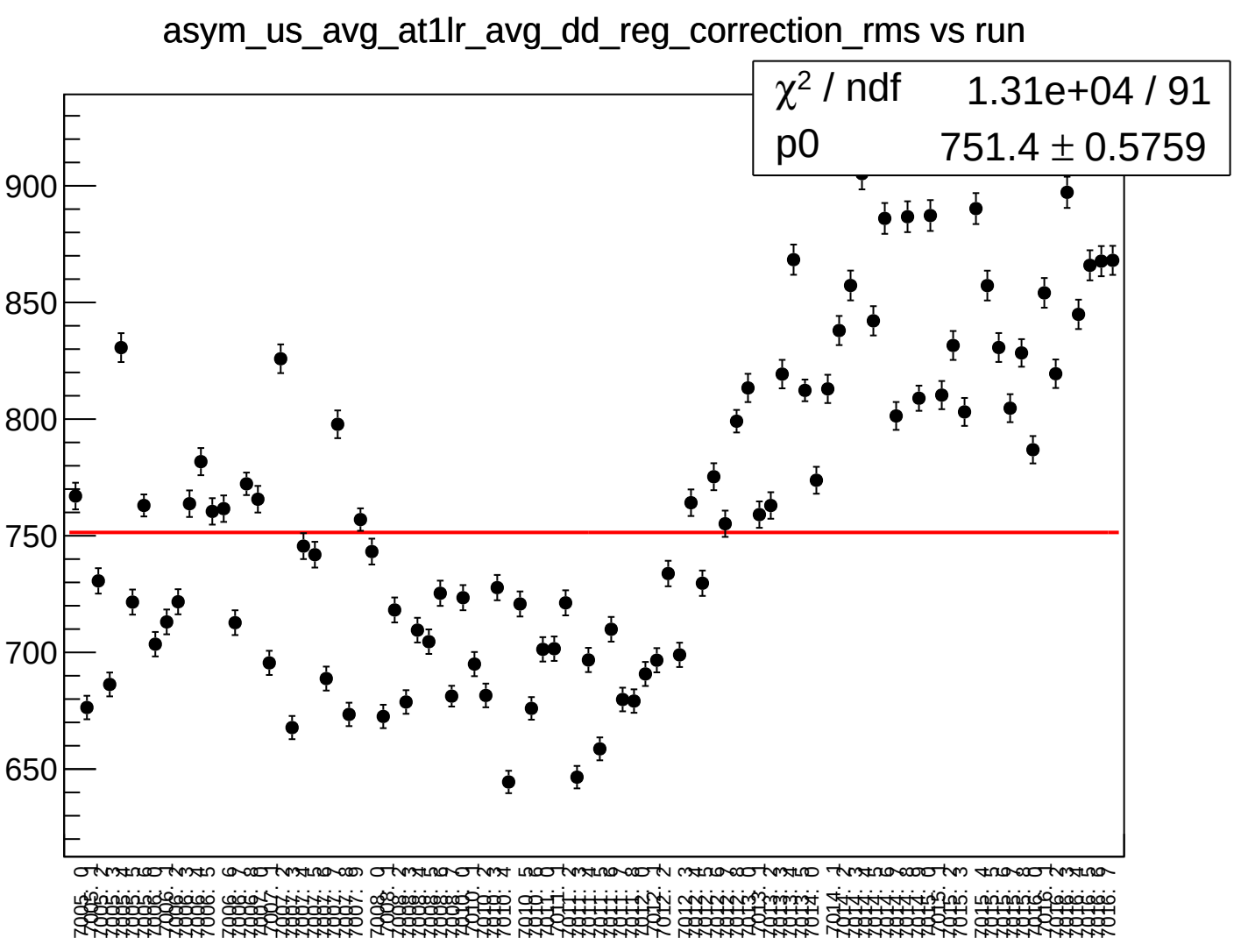

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.793e+05 / 91
p0 2.424e−11 ± 2.275e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

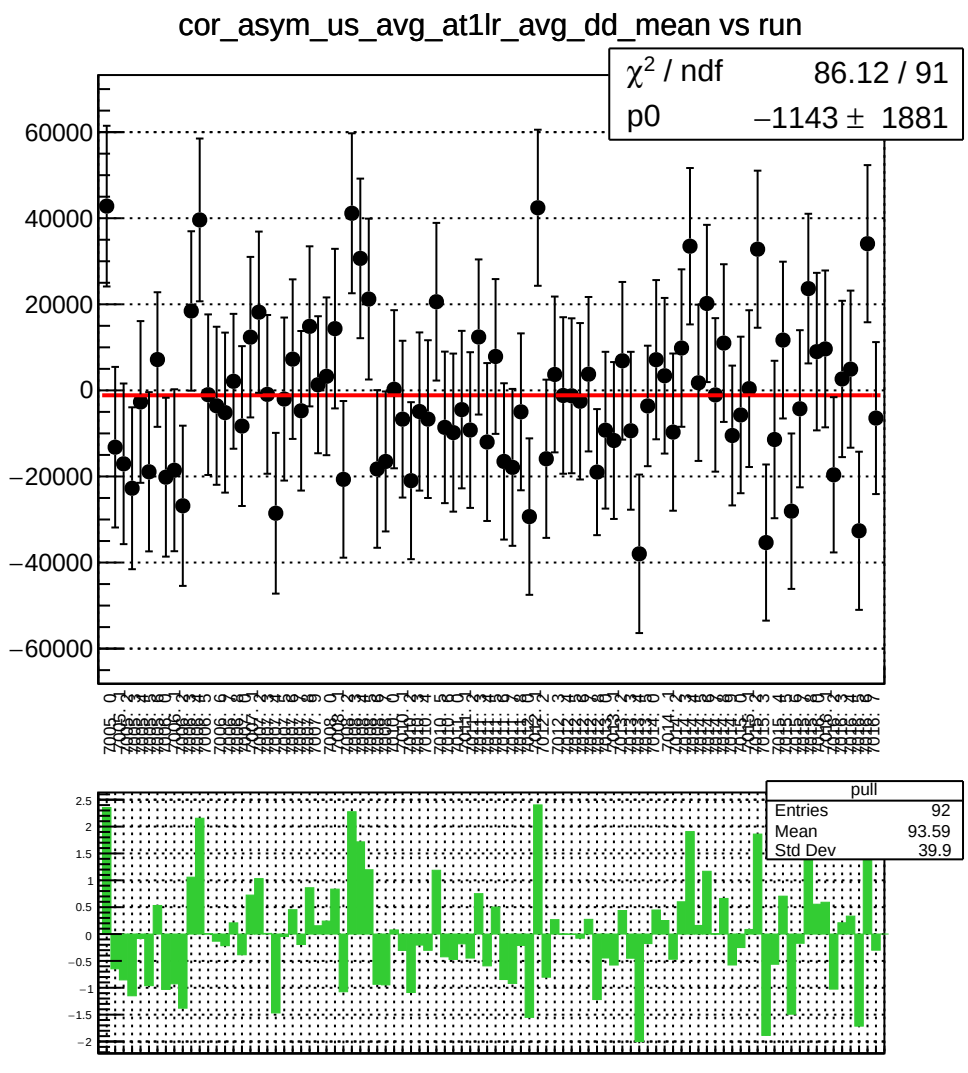

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.11 / 91
p0 −1142 ± 1881
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 93.4
Std Dev 40.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

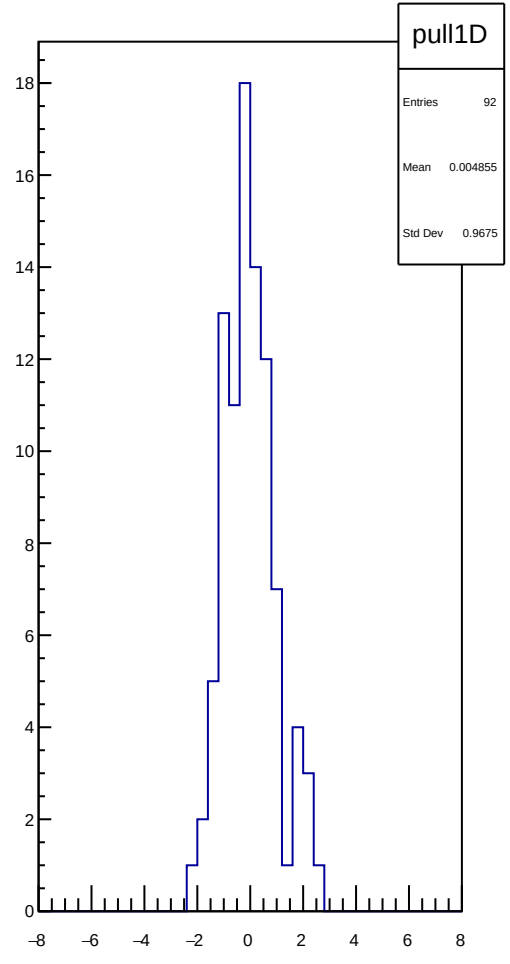

pull1D
Entries 92
Mean 0.004853
Std Dev 0.9675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

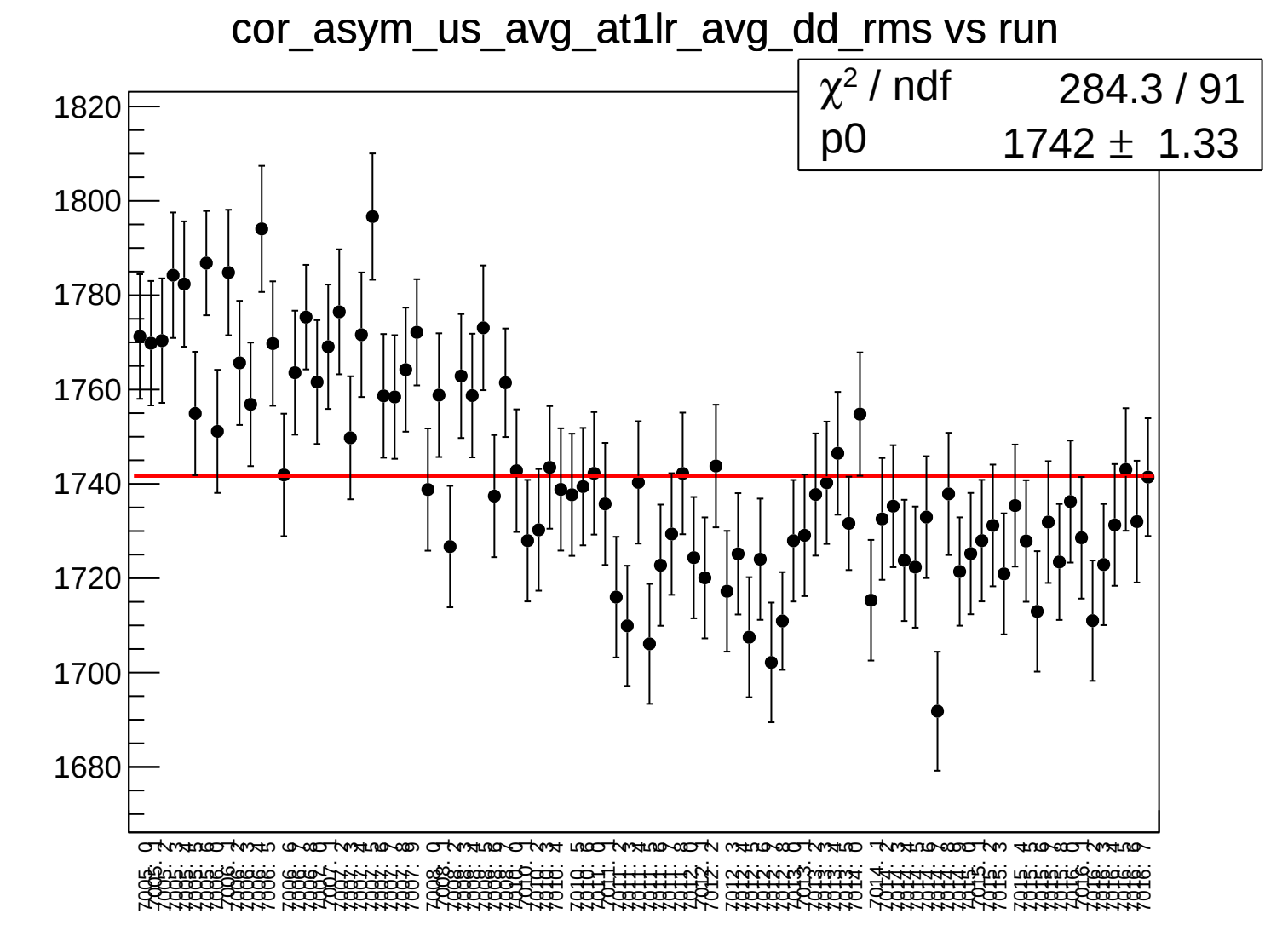

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 284.3 / 91
p0 1742 ± 1.33
1820
1800
1780
1760
1740
1720
1700
1680

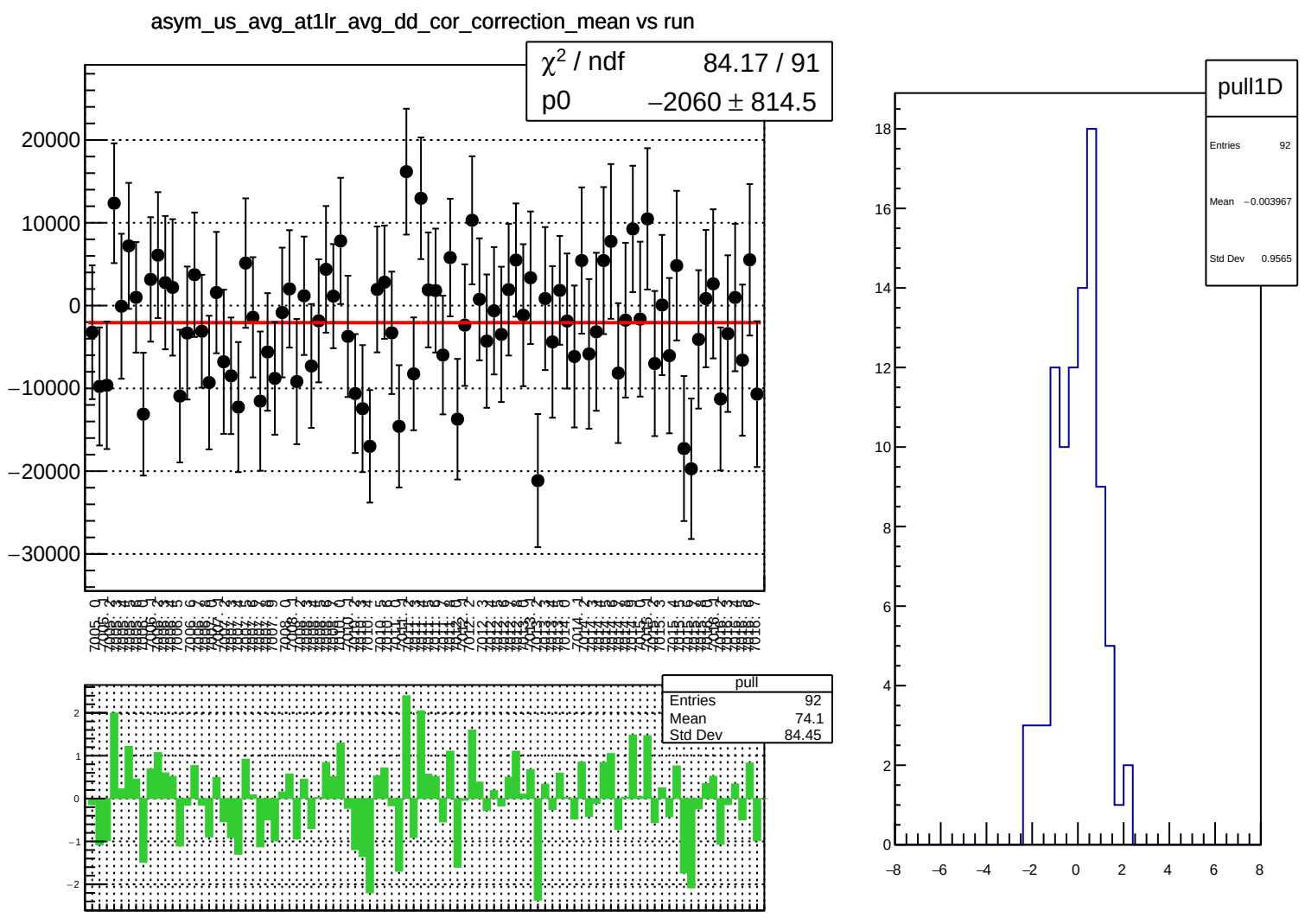

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 84.15 / 91
p0 −2059 ± 814.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 74.52
Std Dev 84.1
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003995
Std Dev 0.9564
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

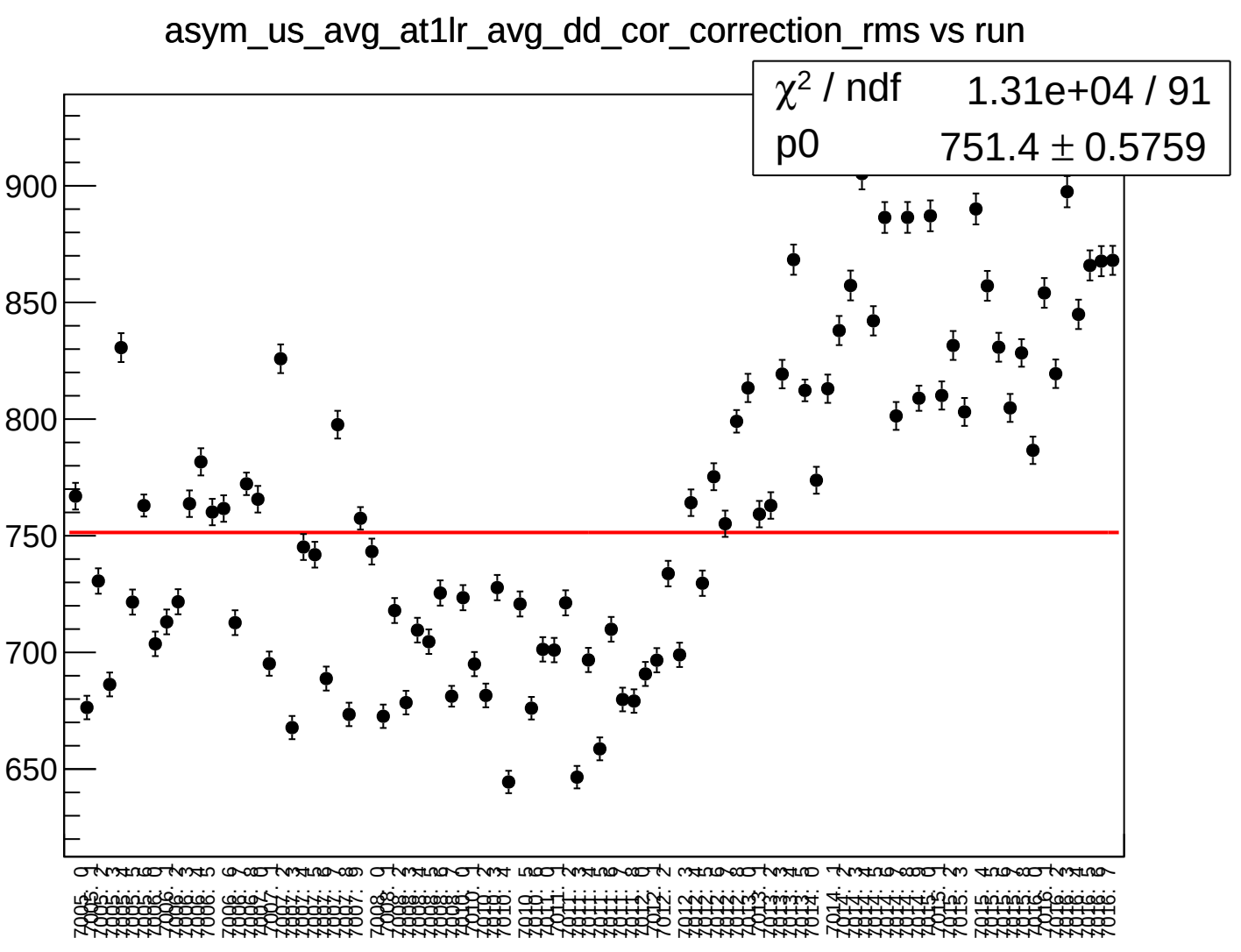

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.31e+04 / 91
p0 751.4 ± 0.5759
900
850
800
750
700
650

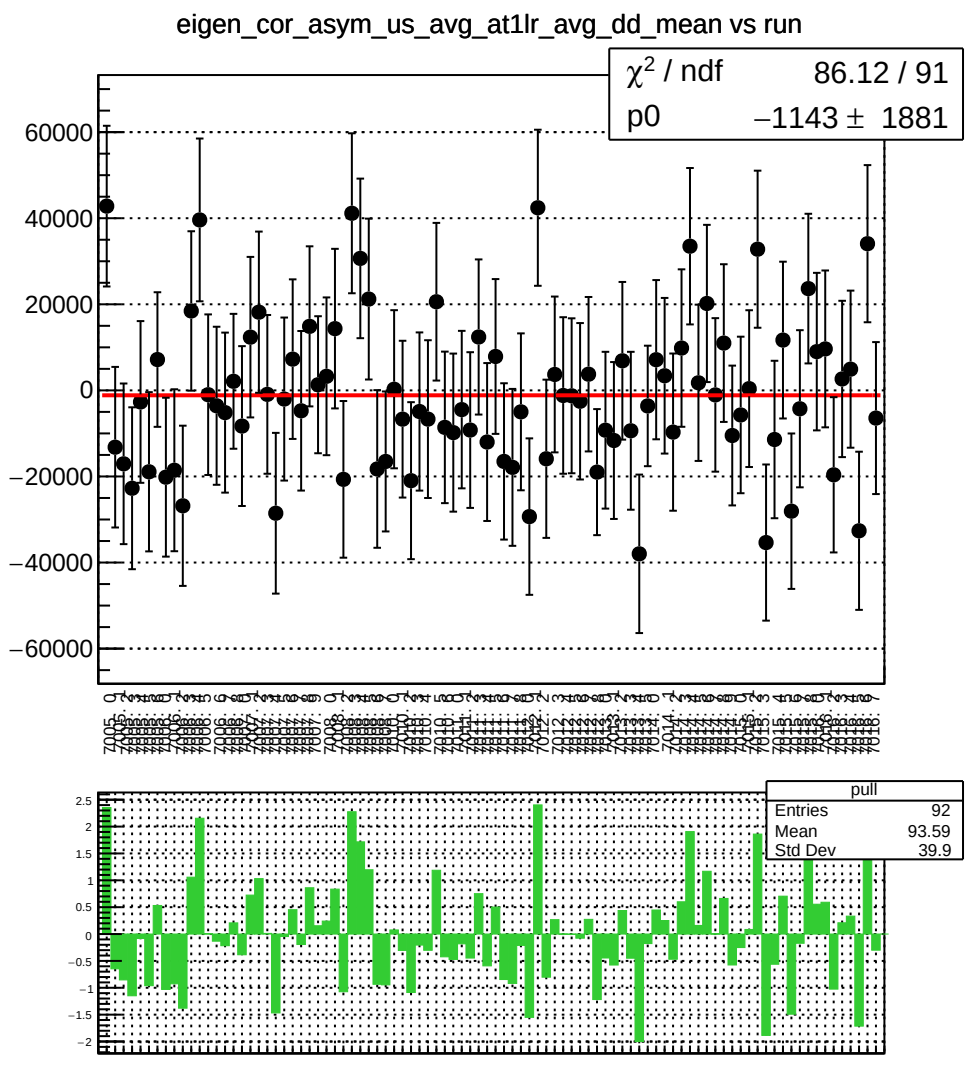

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.12 / 91
p0 −1143 ± 1881
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 93.59
Std Dev 39.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

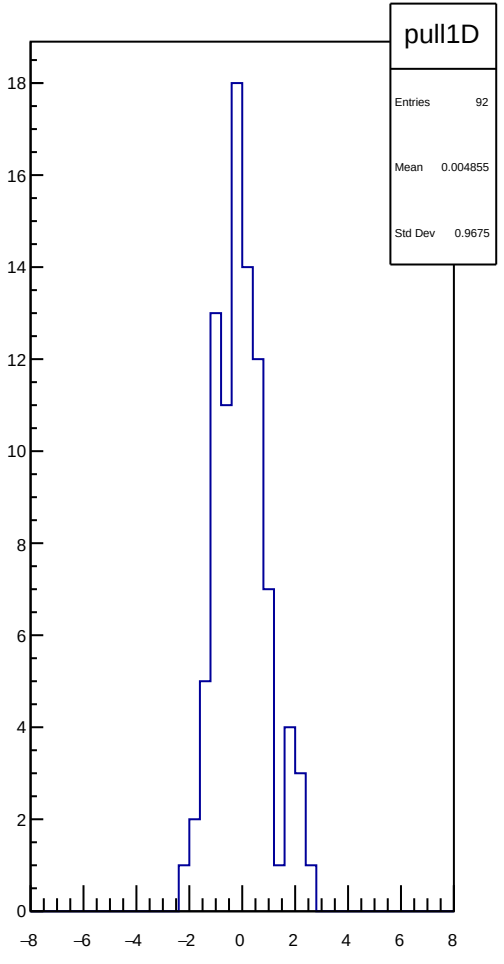

pull1D
Entries 92
Mean 0.004855
Std Dev 0.9675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

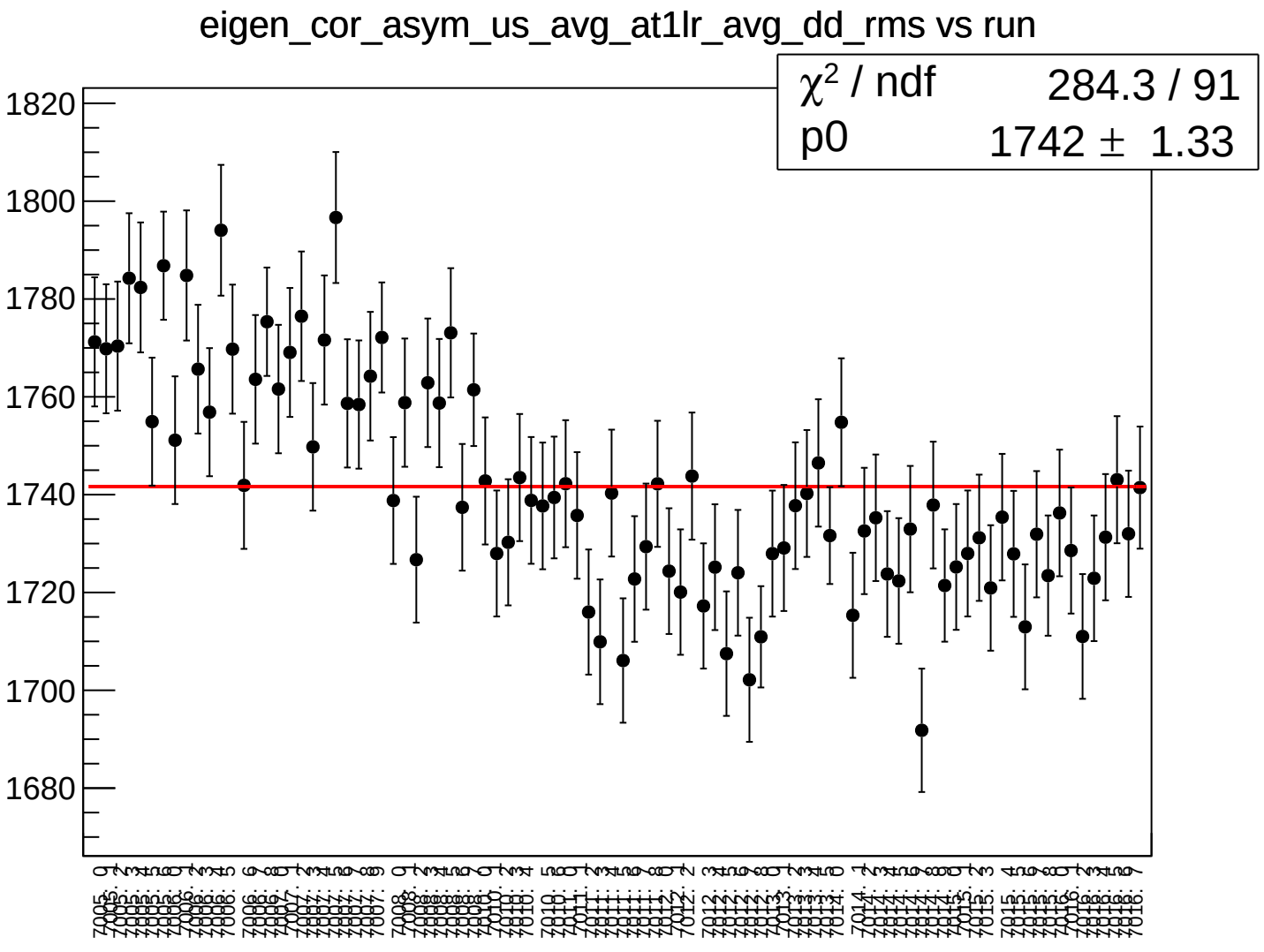

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 284.3 / 91
p0 1742 ± 1.33
1820
1800
1780
1760
1740
1720
1700
1680

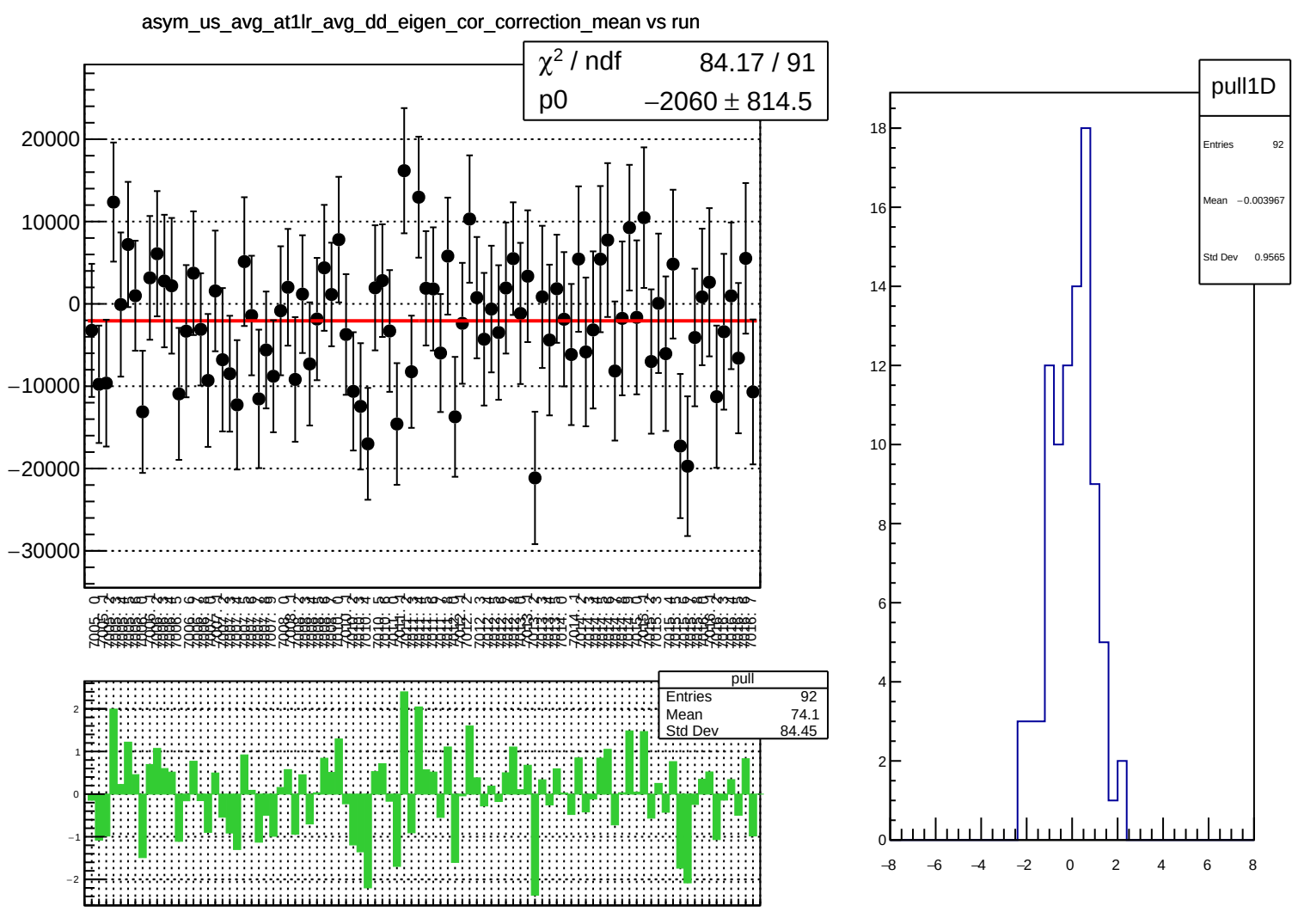

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 84.17 / 91
p0 −2060 ± 814.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 74.1
Std Dev 84.45
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003967
Std Dev 0.9565
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

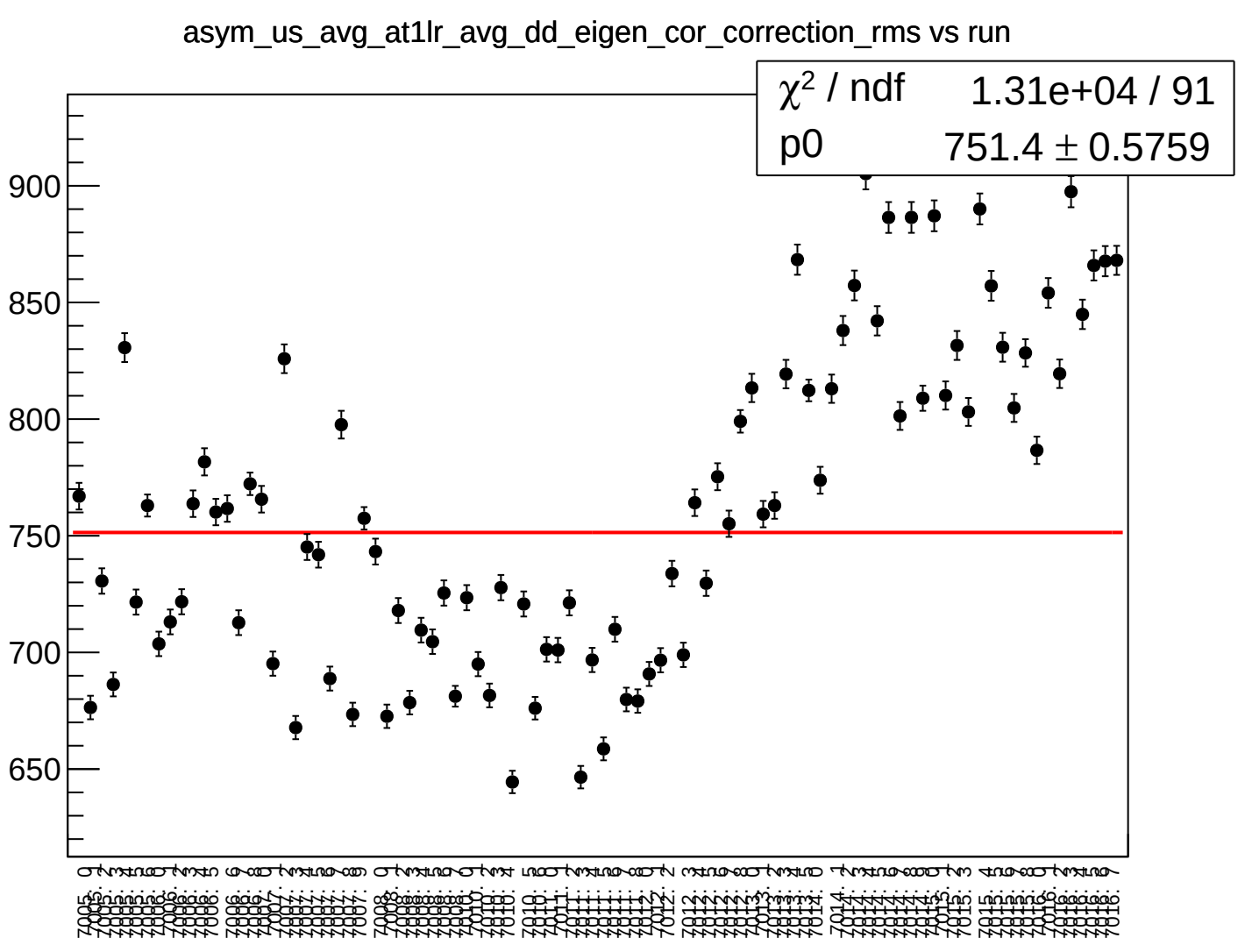

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.31e+04 / 91
p0 751.4 ± 0.5759
900
850
800
750
700
650

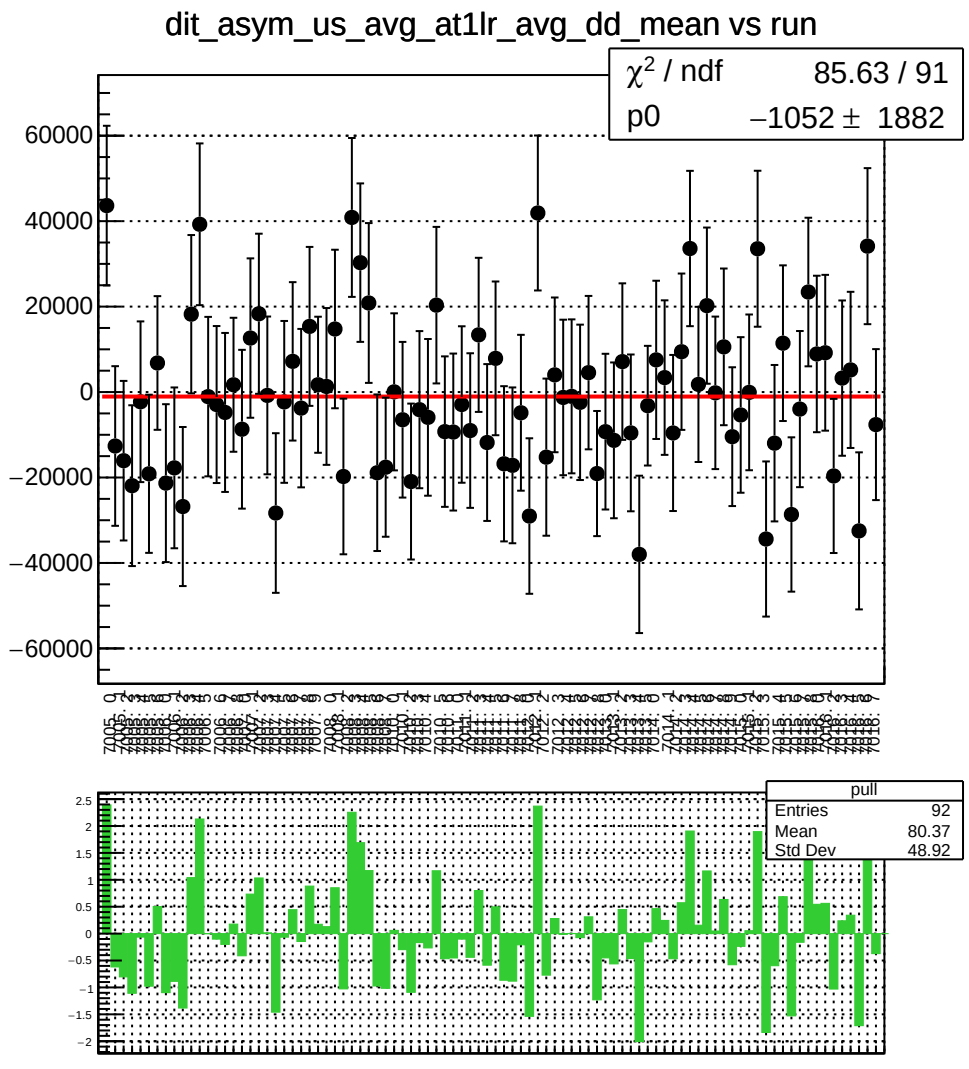

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 86.12 / 91
p0 −1143 ± 1881
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 93.59
Std Dev 39.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

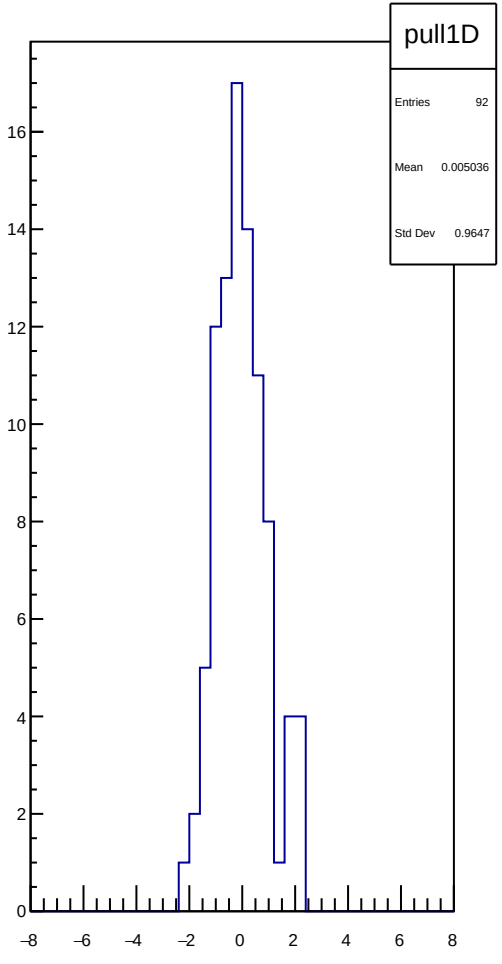

pull1D
Entries 92
Mean 0.004855
Std Dev 0.9675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

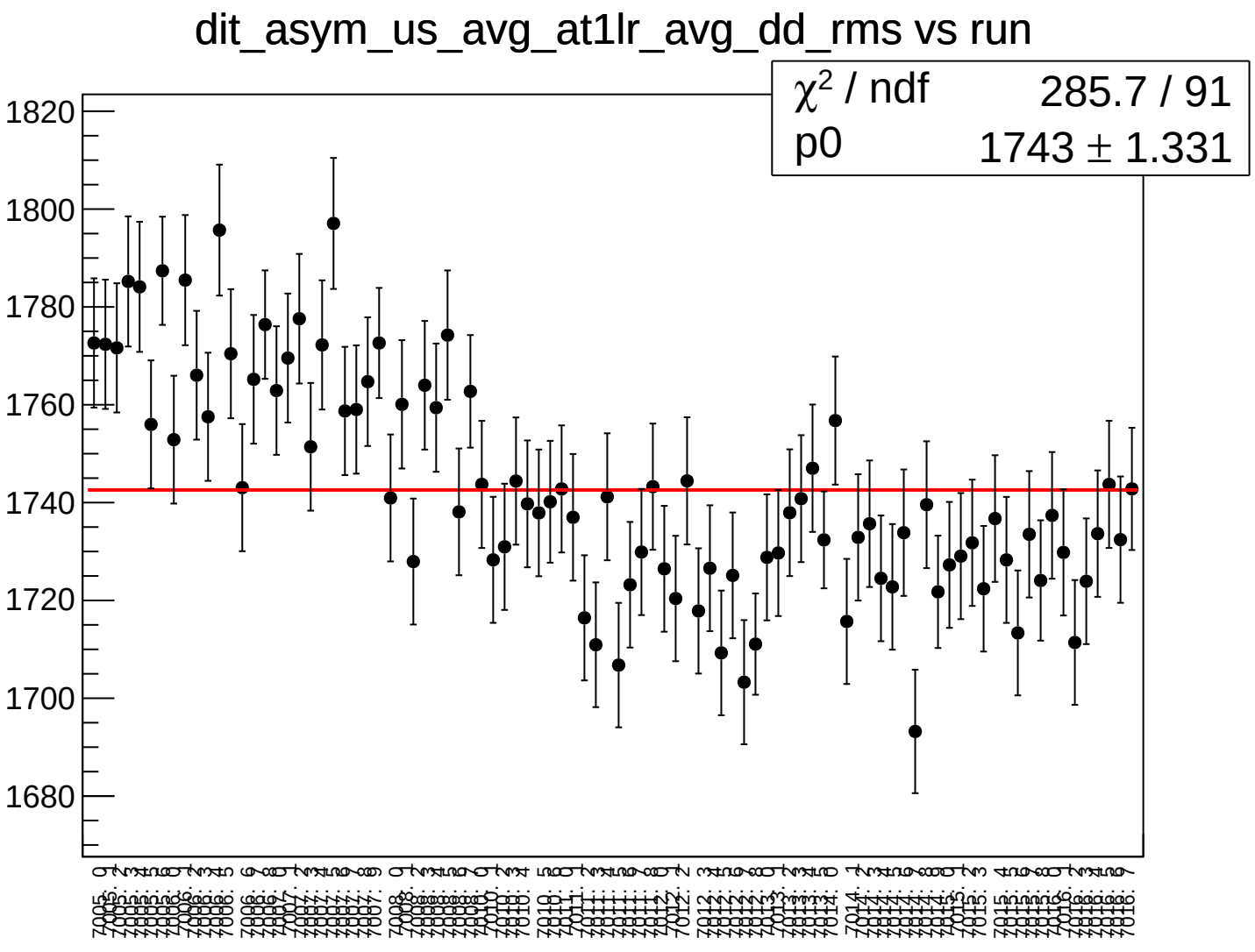

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 284.3 / 91
p0 1742 ± 1.33
1820
1800
1780
1760
1740
1720
1700
1680

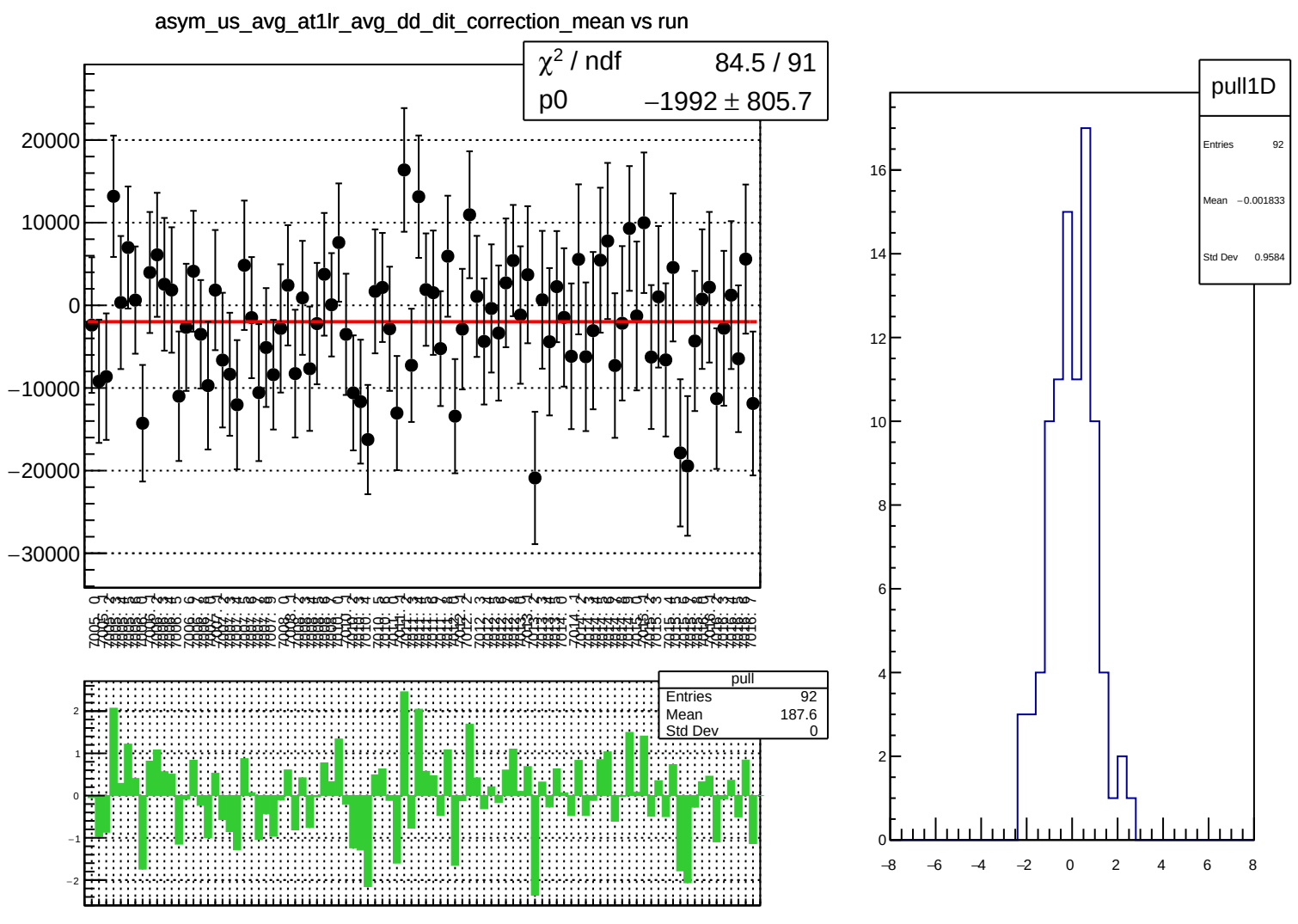

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.17 / 91
p0 −2060 ± 814.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 74.1
Std Dev 84.45
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003967
Std Dev 0.9565
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

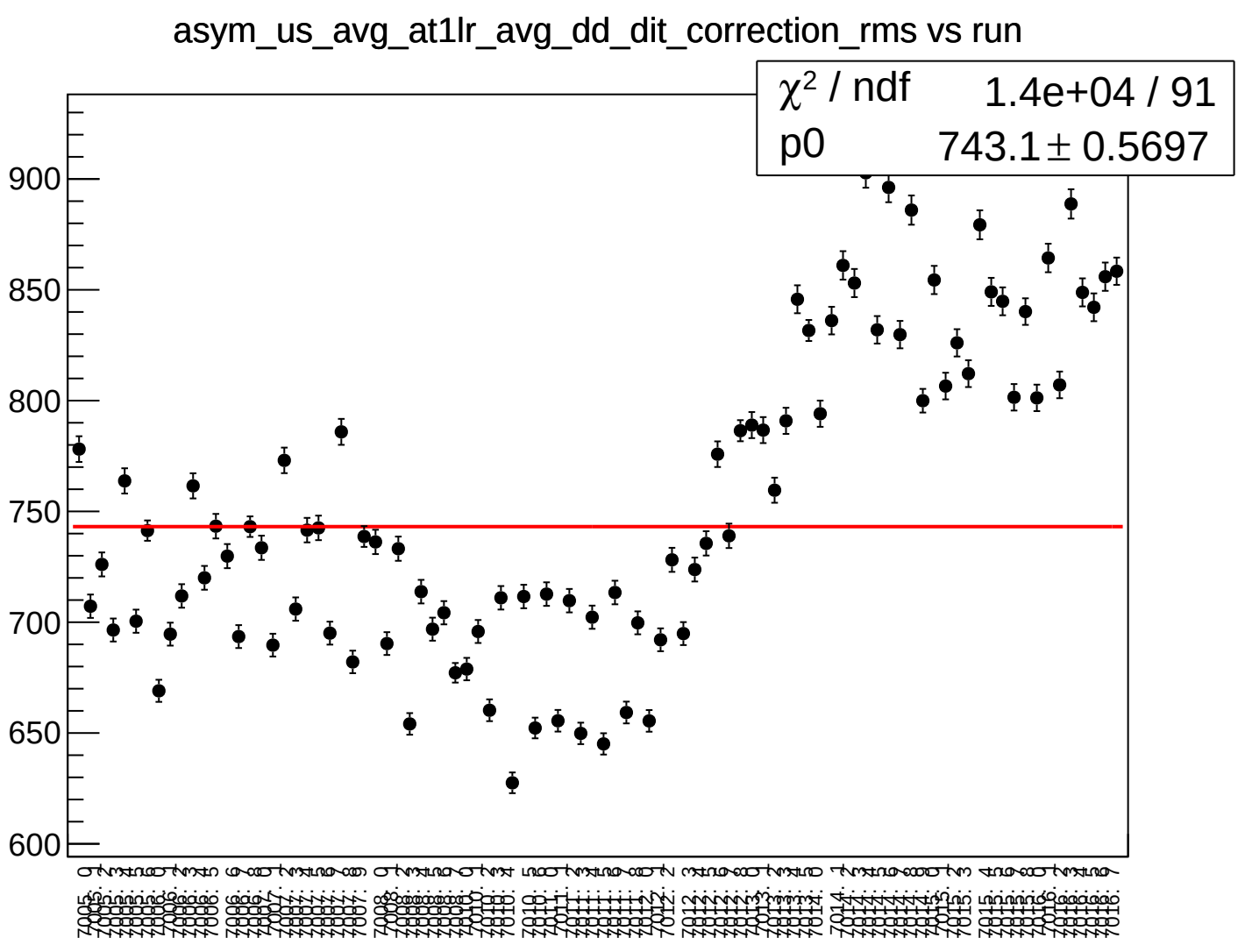

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.31e+04 / 91
p0 751.4 ± 0.5759
900
850
800
750
700
650

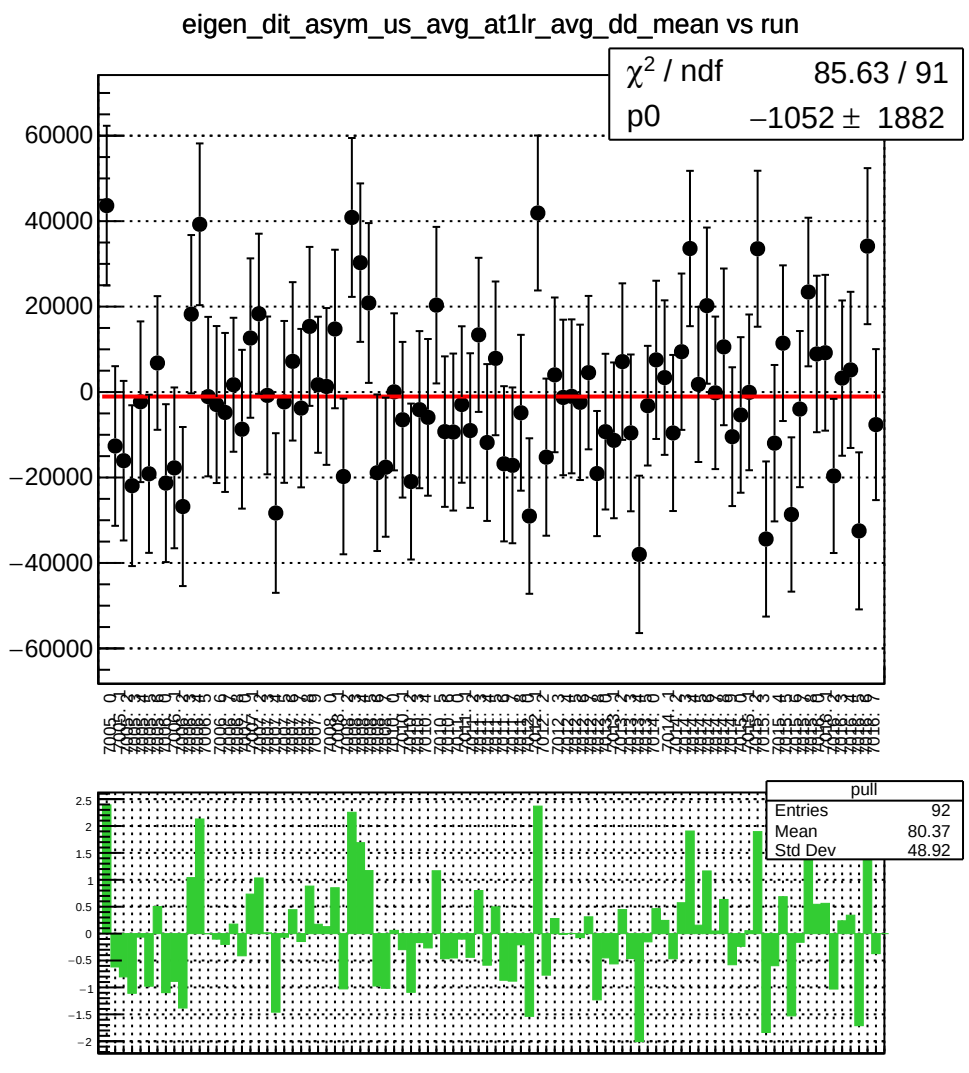

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.63 / 91
p0 −1052 ± 1882
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 80.37
Std Dev 48.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

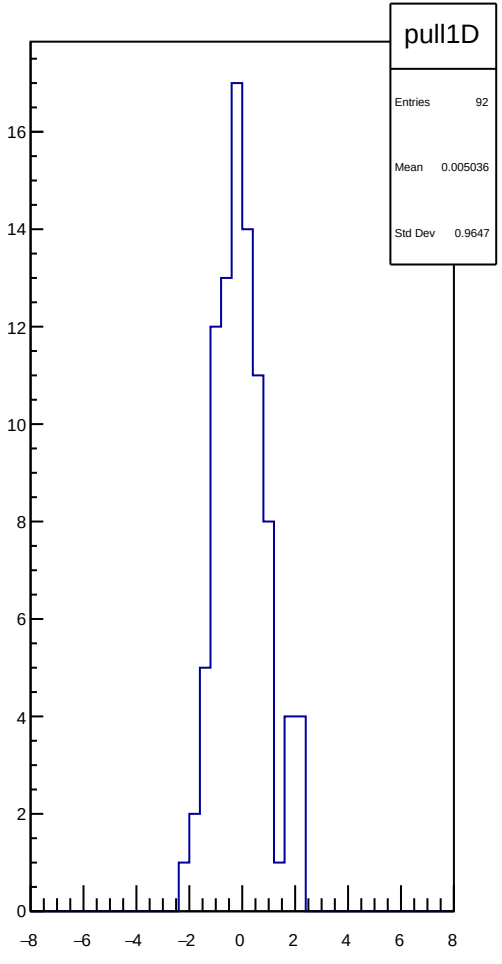

pull1D
Entries 92
Mean 0.005036
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

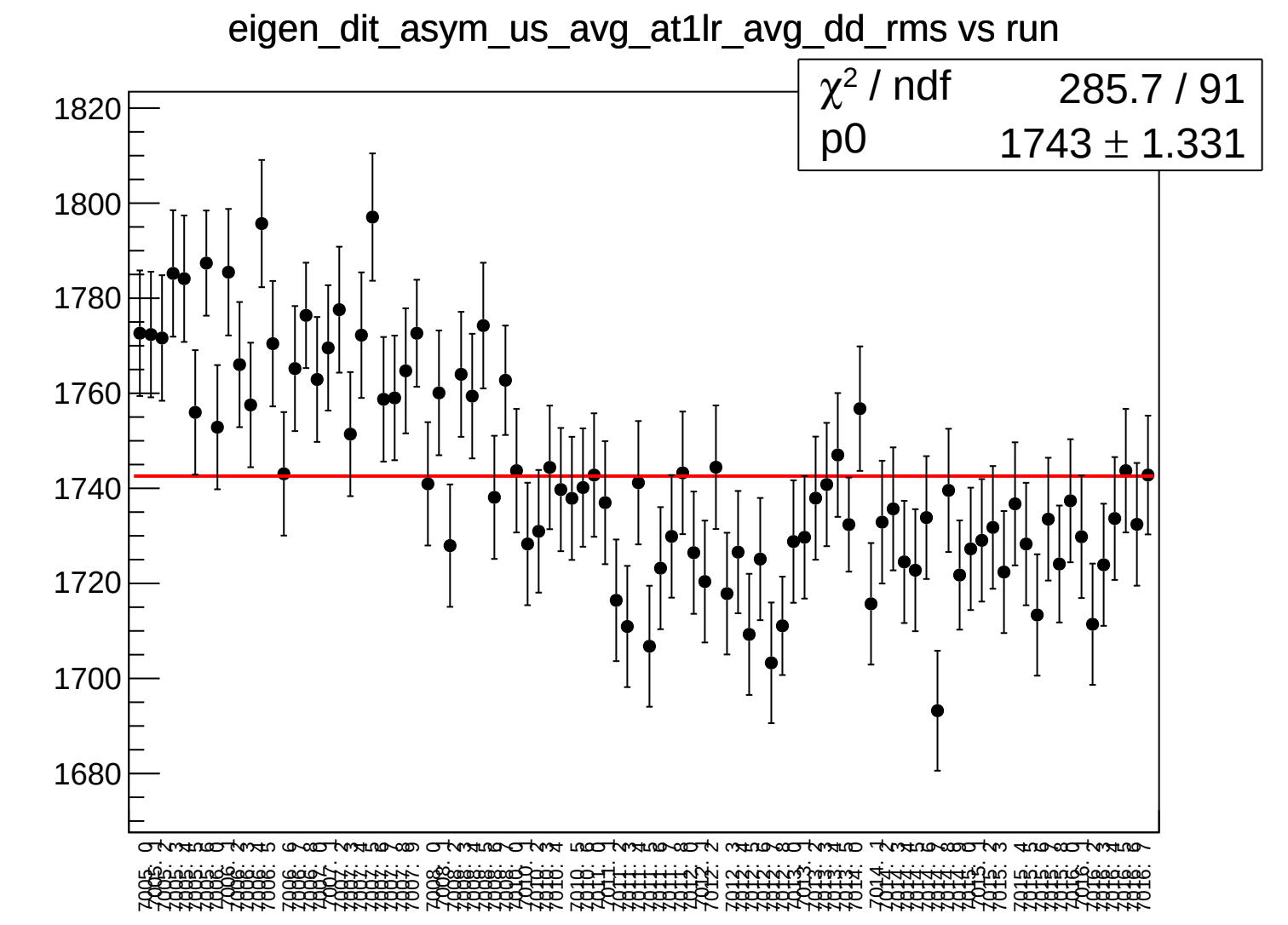

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 285.7 / 91
p0 1743 ± 1.331
1820
1800
1780
1760
1740
1720
1700
1680

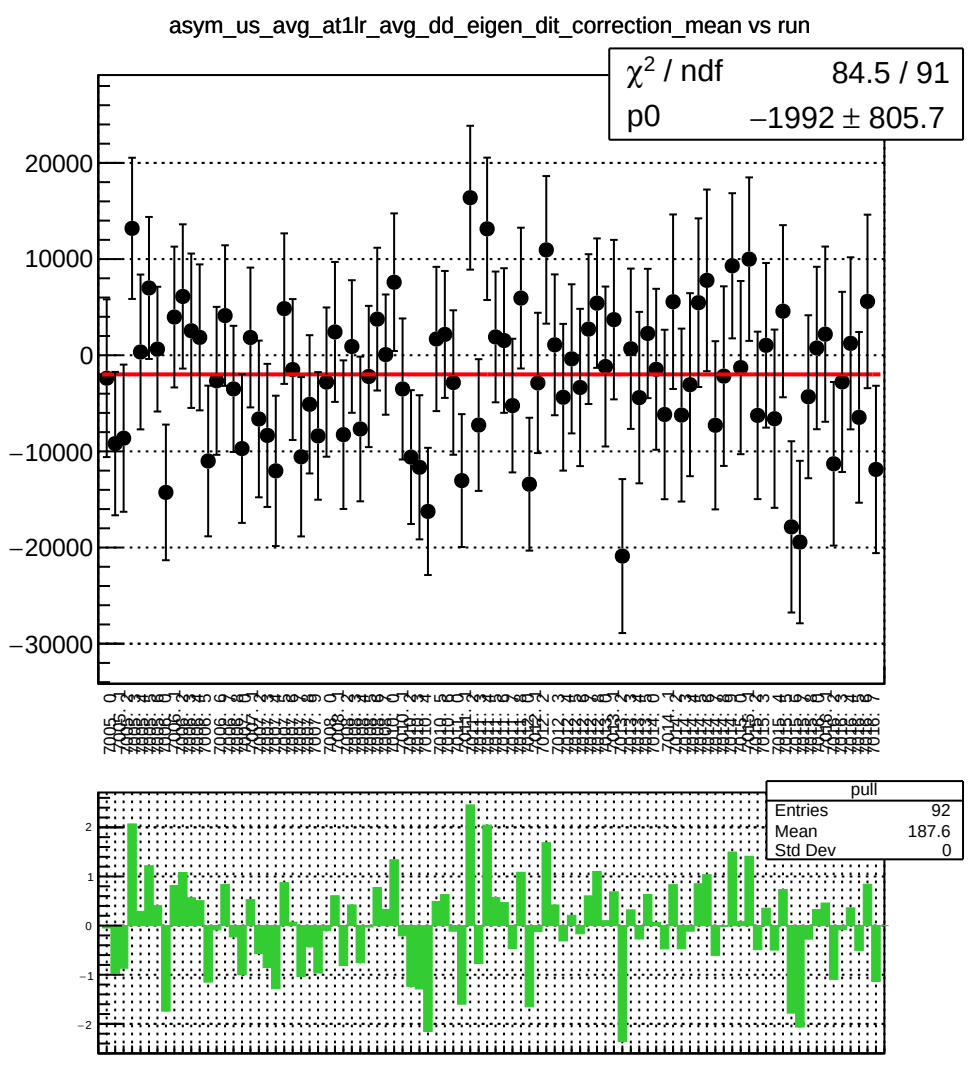

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 84.5 / 91
p0 −1992 ± 805.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 187.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.001833
Std Dev 0.9584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

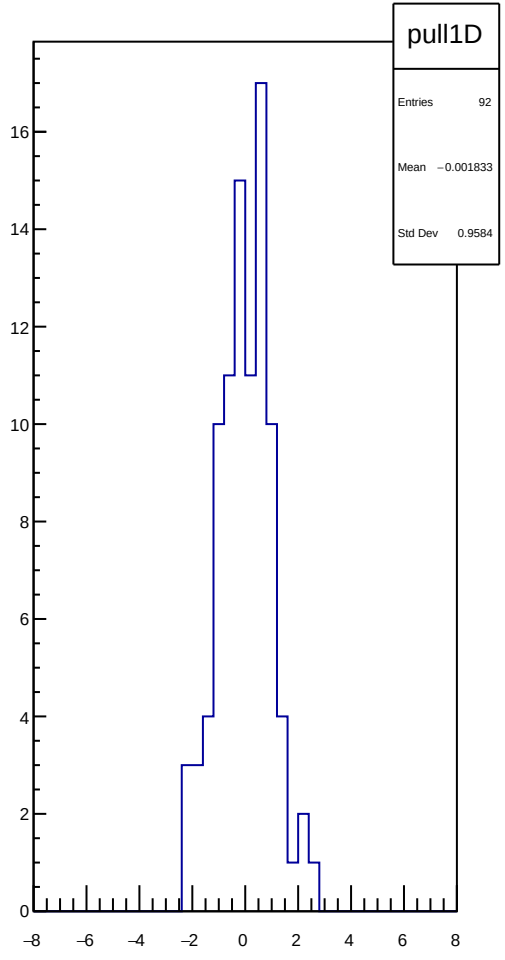

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.4e+04 / 91
p0 743.1 ± 0.5697
900
850
800
750
700
650
600

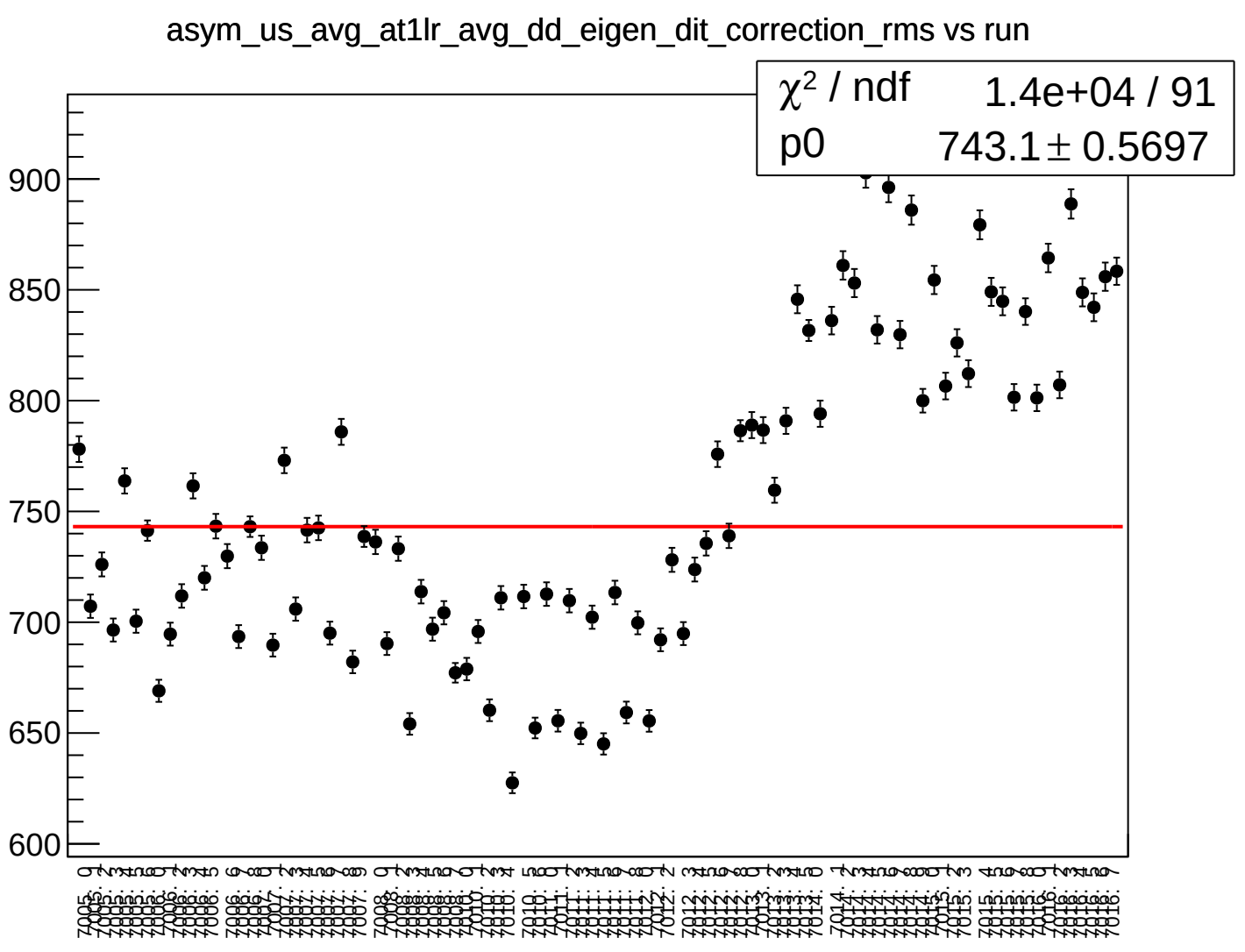

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.63 / 91
p0 −1052 ± 1882
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 80.37
Std Dev 48.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

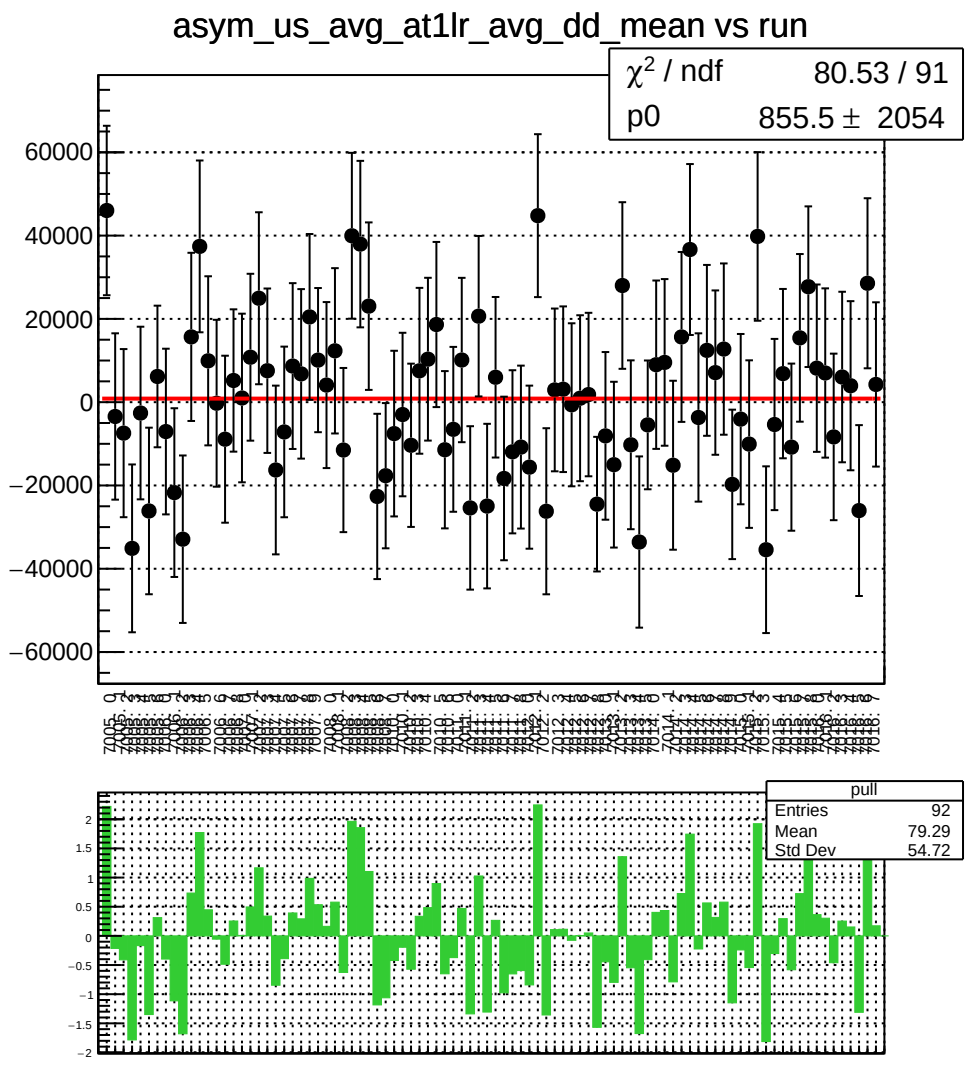

pull1D
Entries 92
Mean 0.005036
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

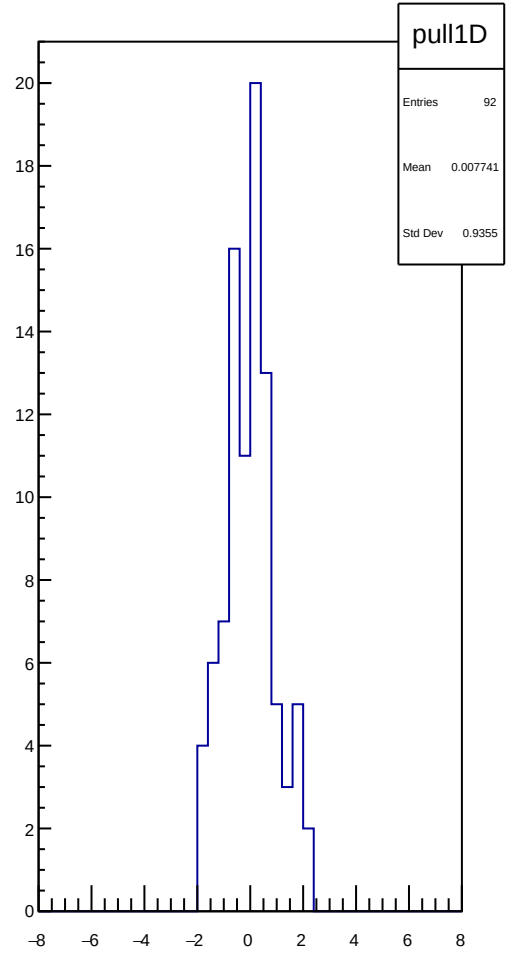

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 285.7 / 91
p0 1743 ± 1.331
1820
1800
1780
1760
1740
1720
1700
1680

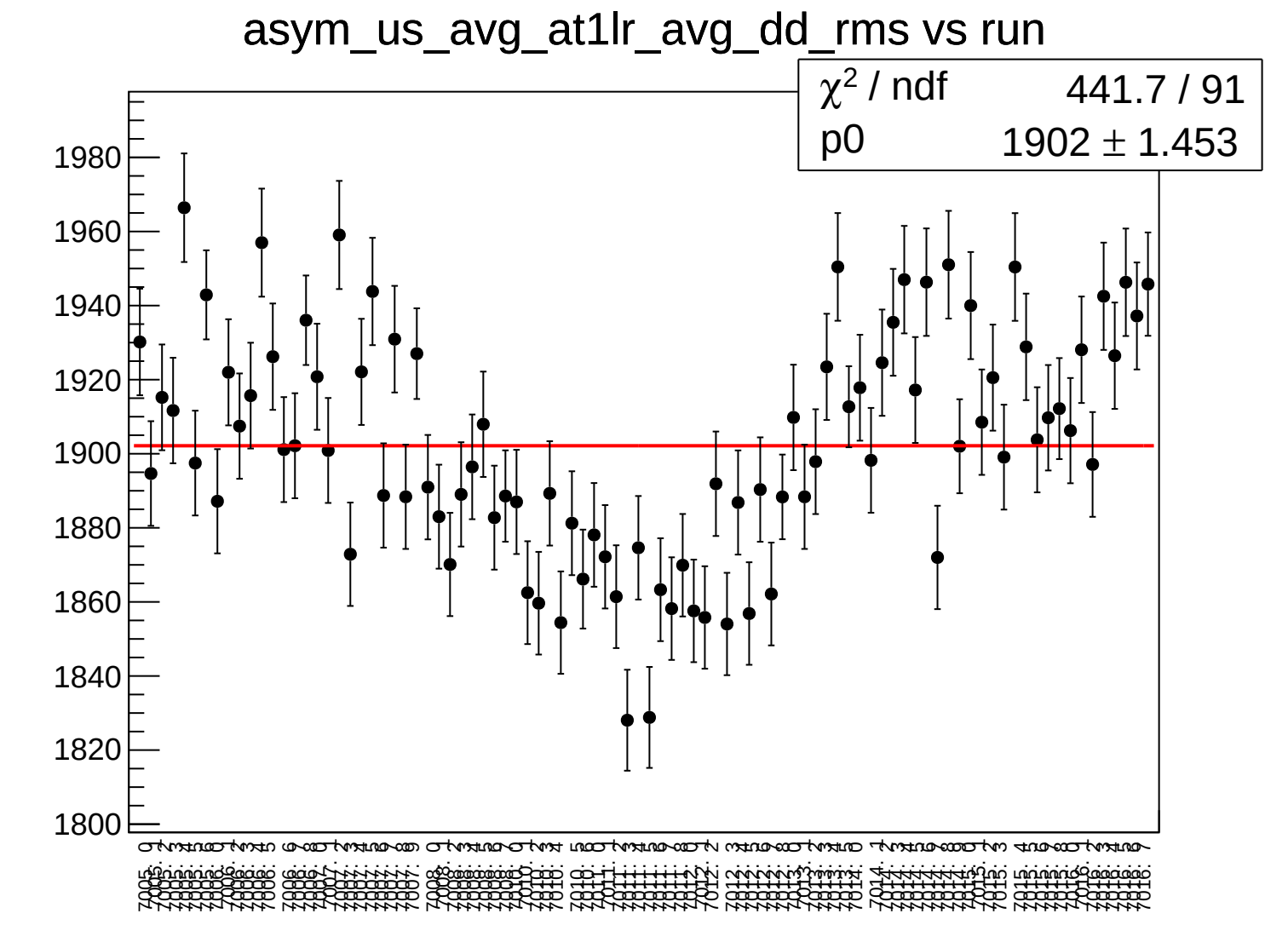

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.5 / 91
p0 −1992 ± 805.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 187.6
Std Dev 0
2
1
0
−1
−2

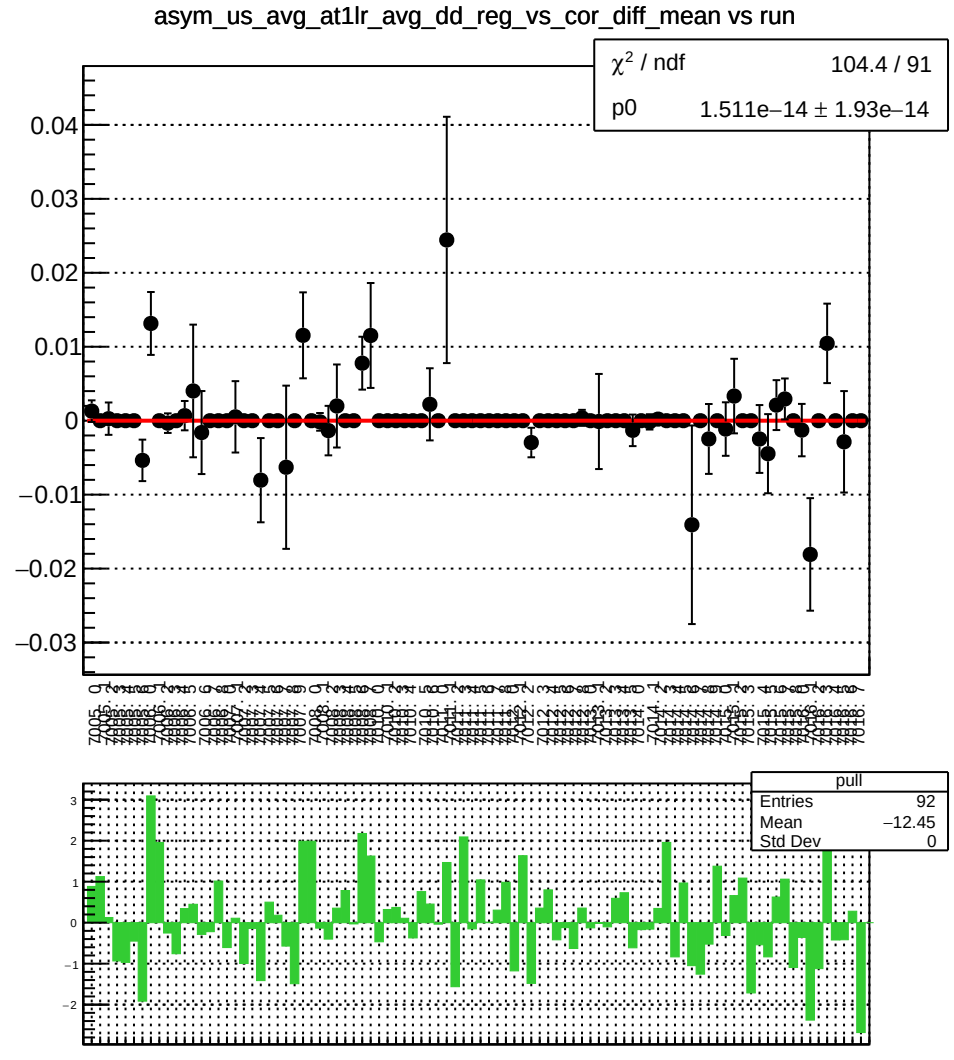

pull1D
Entries 92
Mean −0.001833
Std Dev 0.9584
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

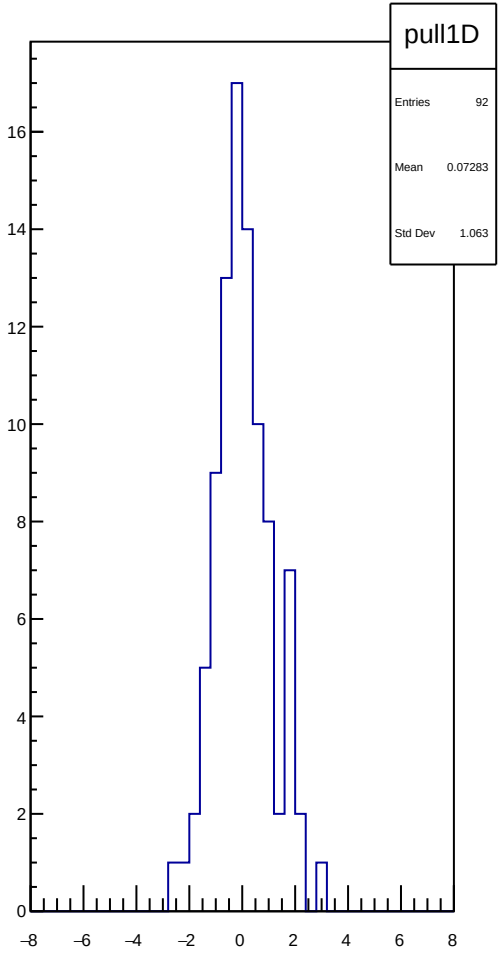

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.4e+04 / 91
p0 743.1 ± 0.5697
900
850
800
750
700
650
600

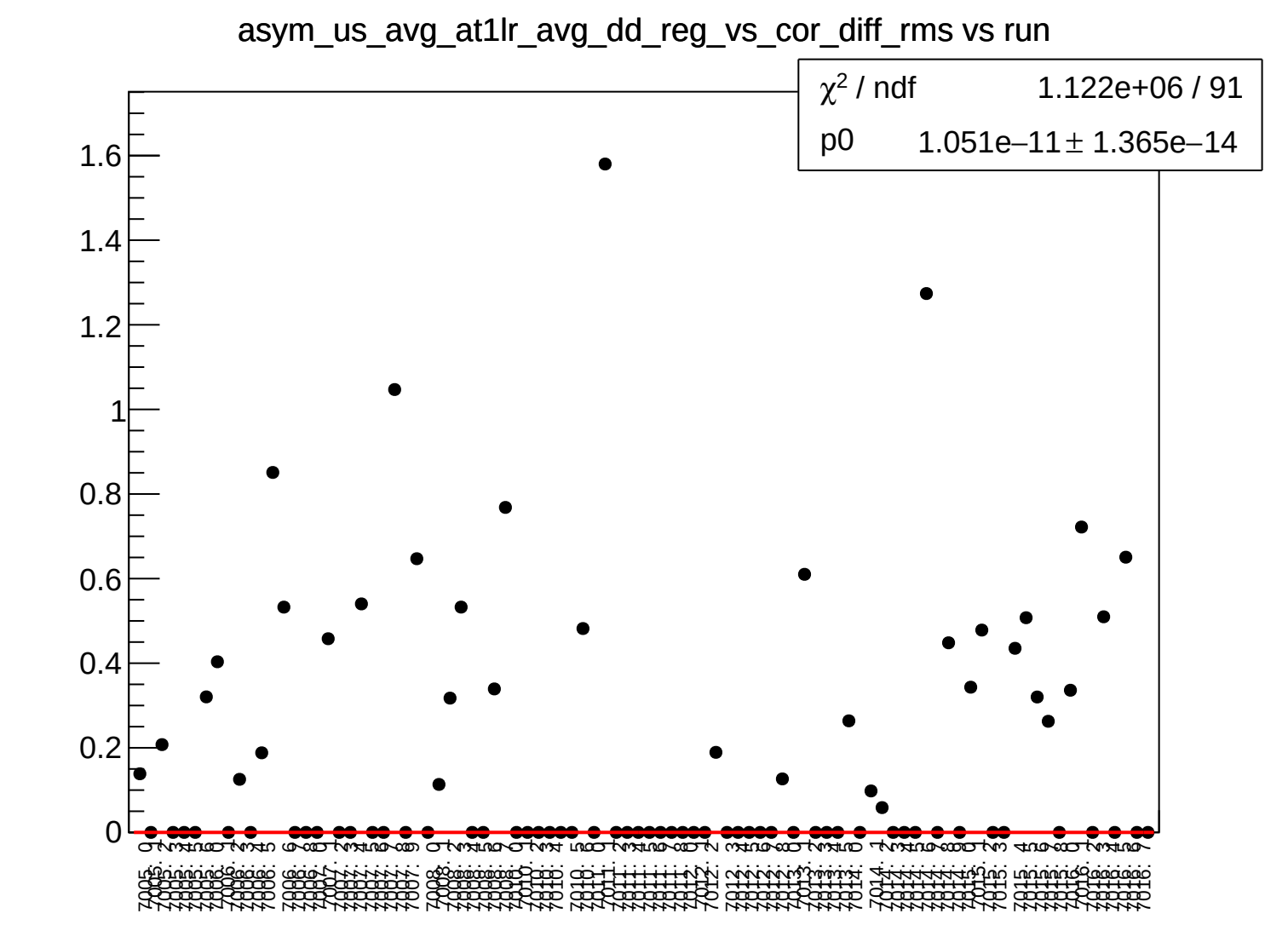

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.53 / 91
p0 855.5 ± 2054
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 79.29
Std Dev 54.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

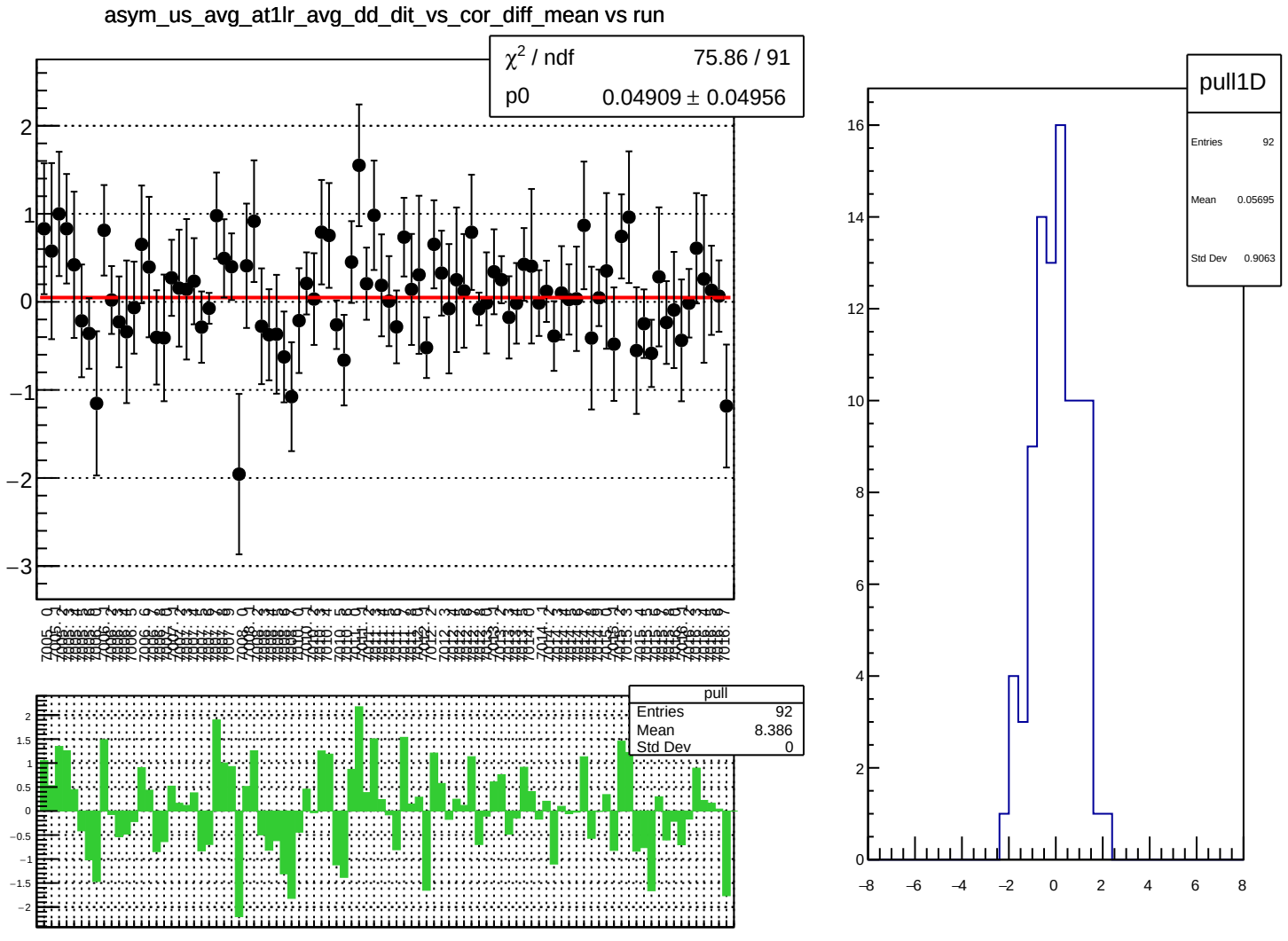

pull1D
Entries 92
Mean 0.007741
Std Dev 0.9355
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

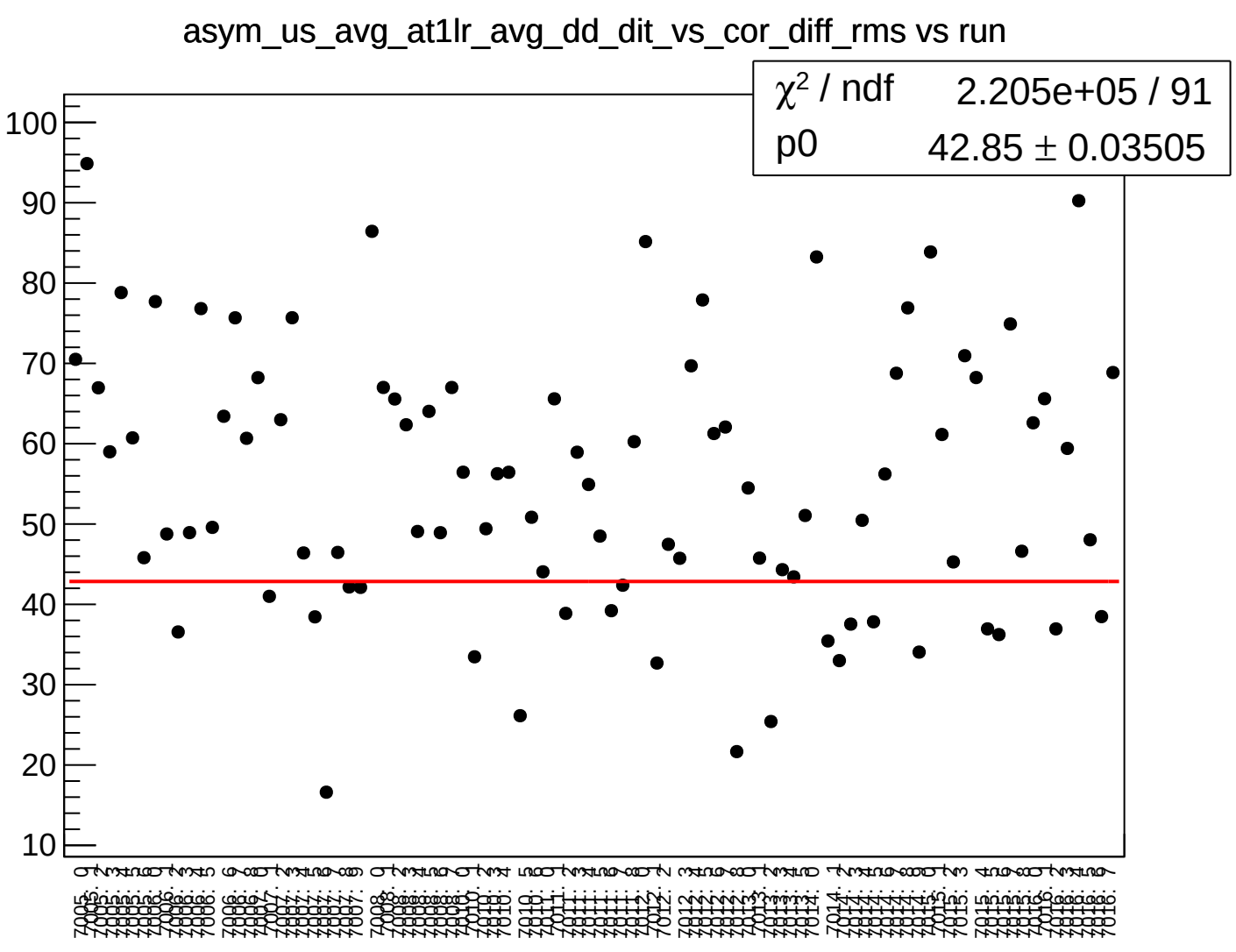

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 441.7 / 91
p0 1902 ± 1.453
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800

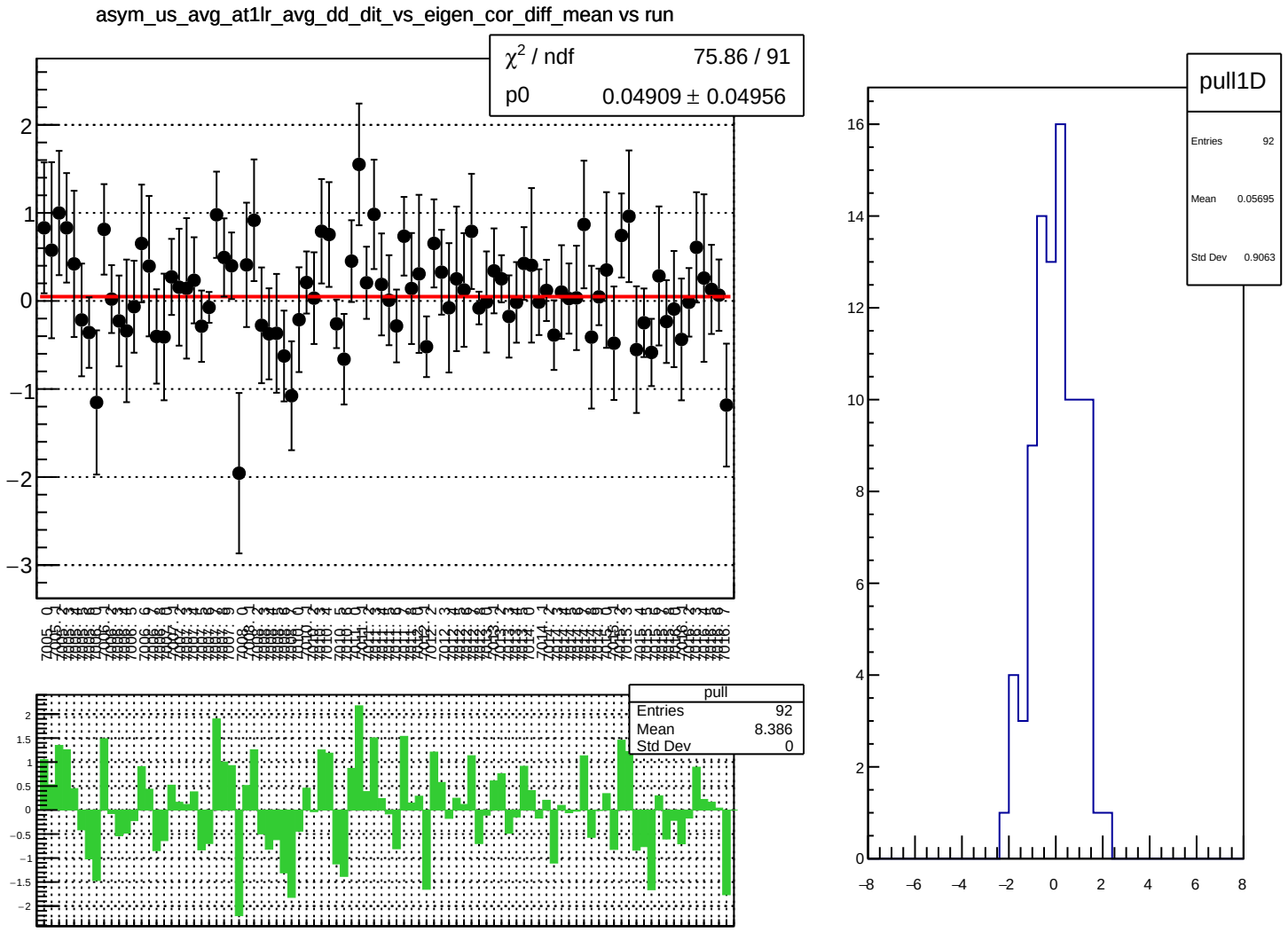

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.4 / 91
p0 1.511e−14 ± 1.93e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean −12.45
Std Dev 0
3
2
1
0
−1
−2

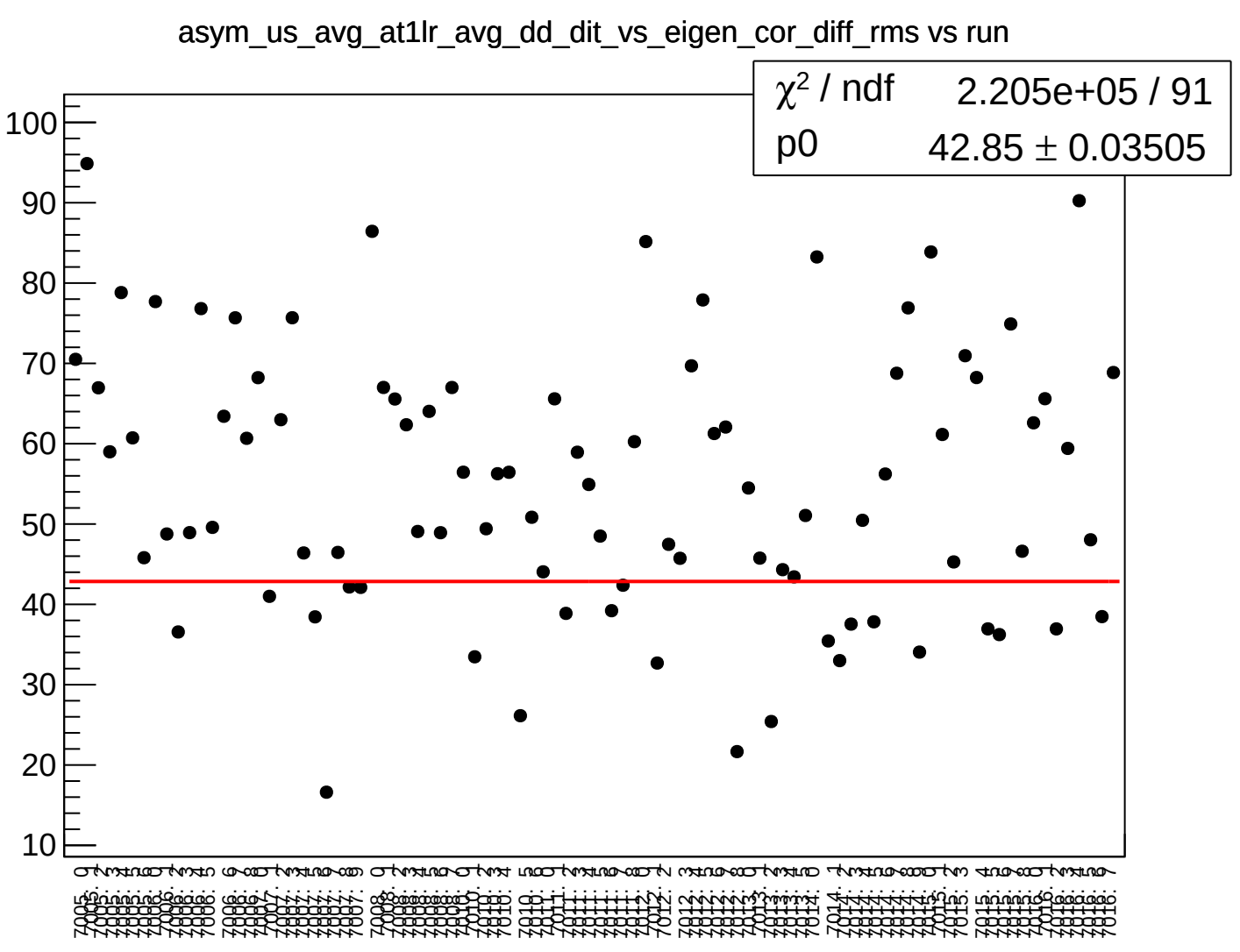

pull1D
Entries 92
Mean 0.07283
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

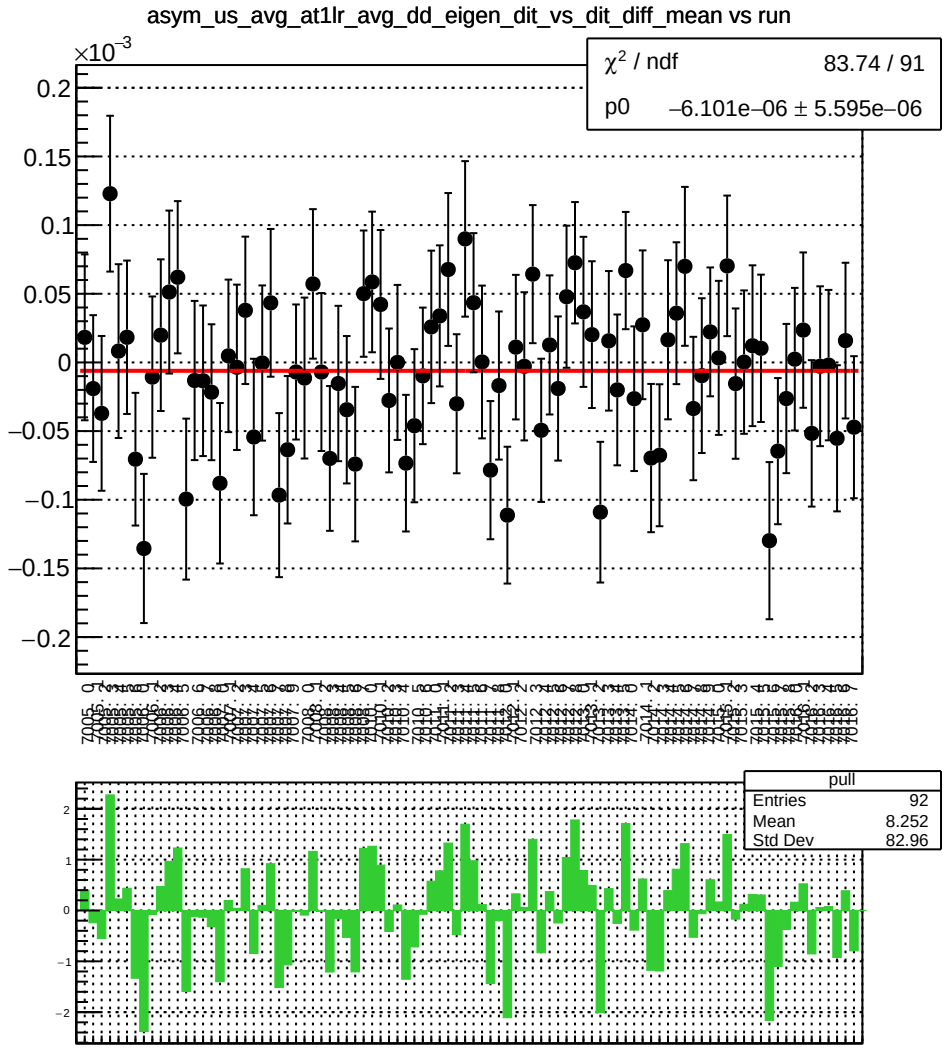

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.122e+06 / 91
p0 1.051e−11 ± 1.365e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

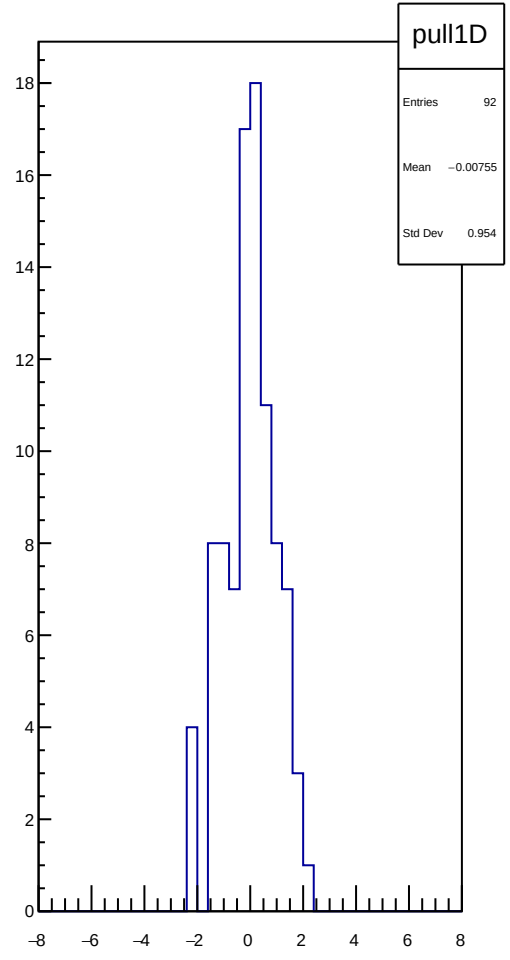

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.86 / 91
p0 0.04909 ± 0.04956
pull
Entries 92
Mean 8.386
Std Dev 0
pull1D
Entries 92
Mean 0.05695
Std Dev 0.9063

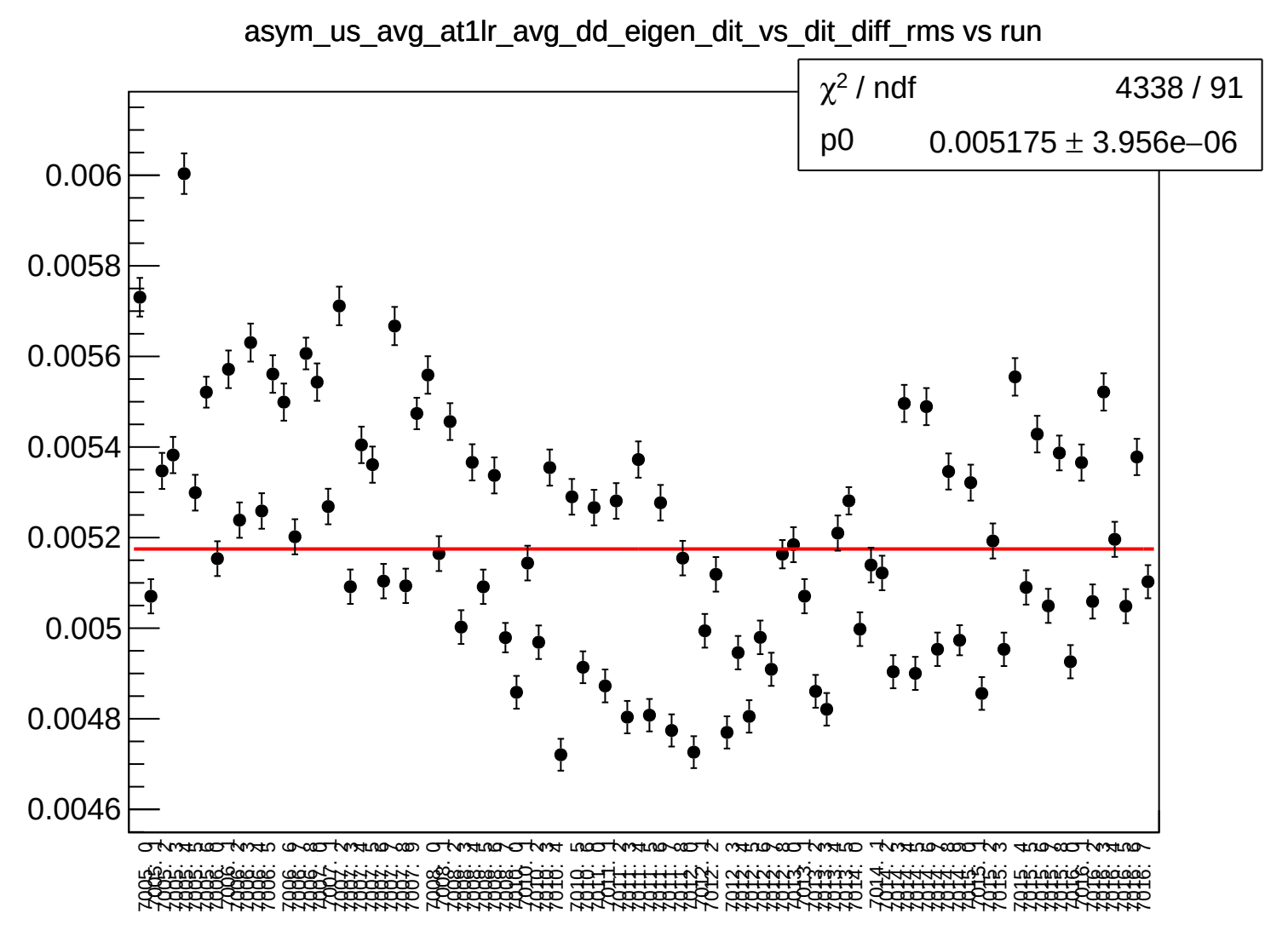

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.205e+05 / 91
p0 42.85 ± 0.03505
100
90
80
70
60
50
40
30
20
10

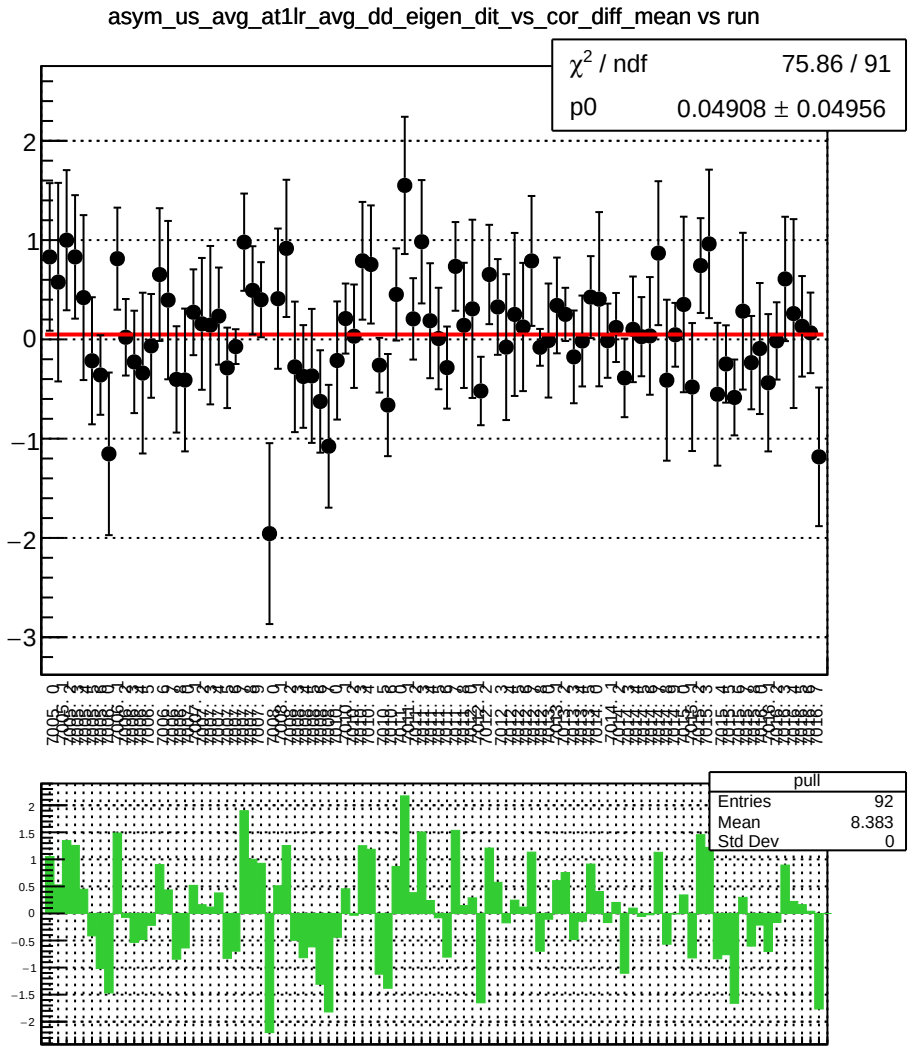

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.86 / 91
p0 0.04909 ± 0.04956
pull
Entries 92
Mean 8.386
Std Dev 0
pull1D
Entries 92
Mean 0.05695
Std Dev 0.9063

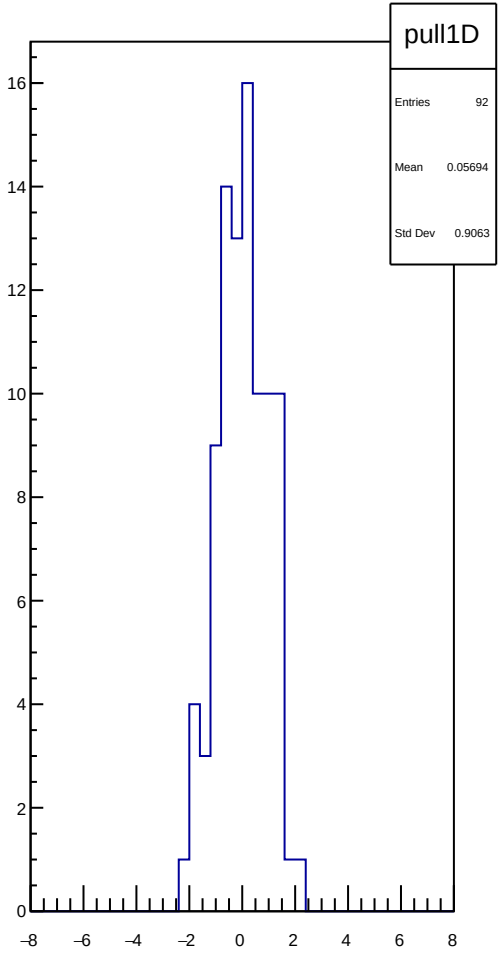

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.205e+05 / 91
p0 42.85 ± 0.03505
100
90
80
70
60
50
40
30
20
10

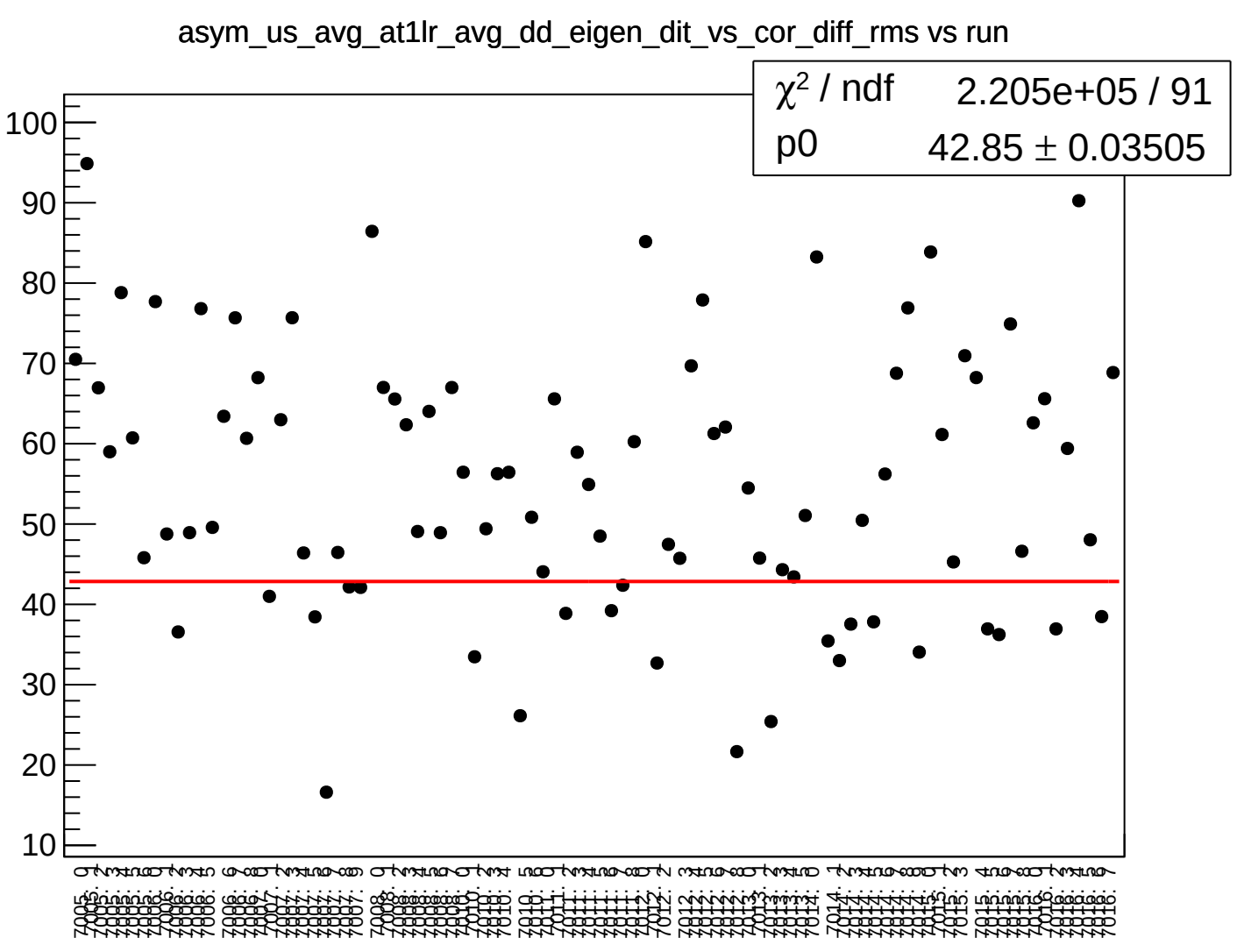

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.74 / 91
p0 −6.101e−06 ± 5.595e−06
pull
Entries 92
Mean 8.252
Std Dev 82.96

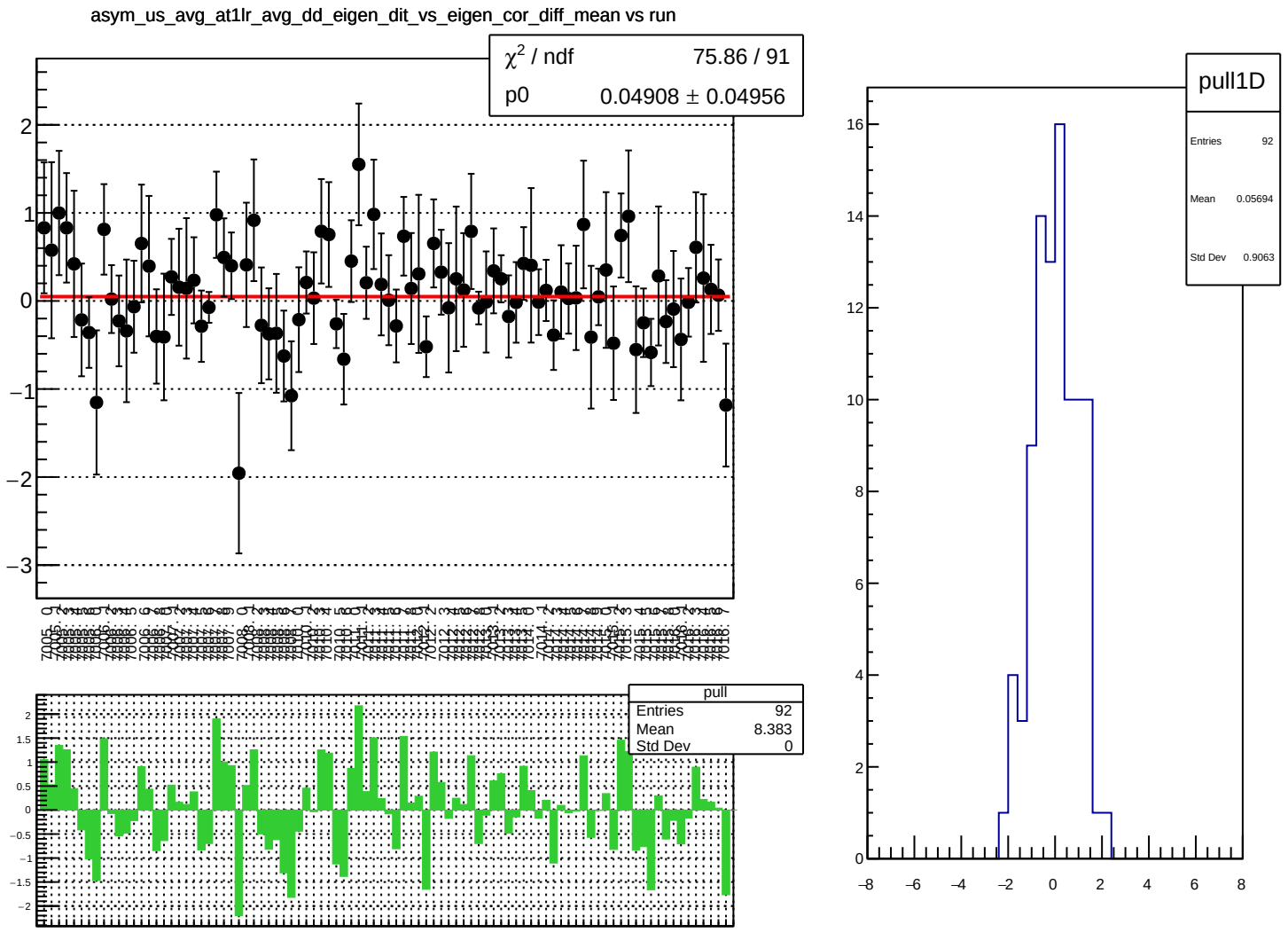

pull1D
Entries 92
Mean −0.00755
Std Dev 0.954

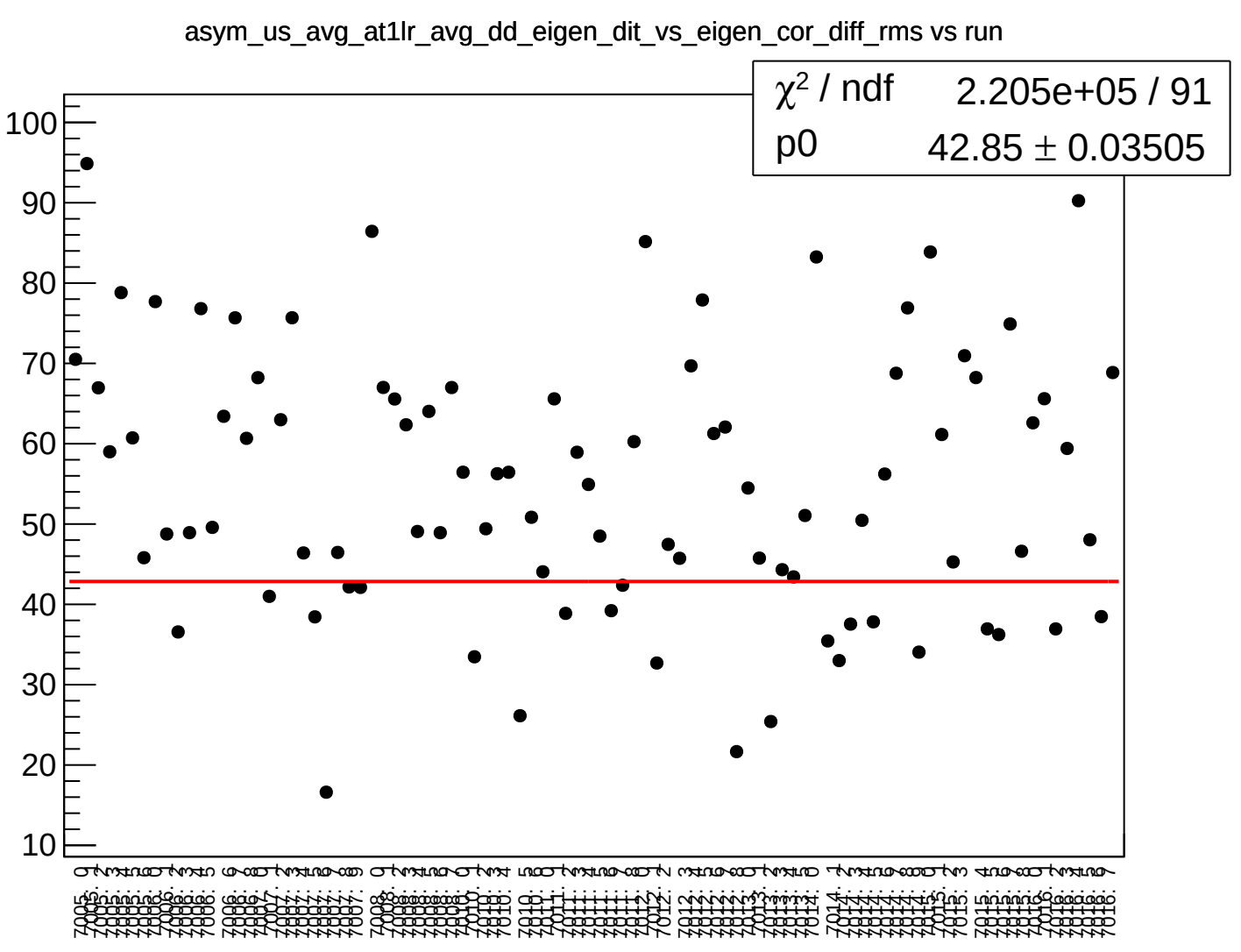

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4338 / 91
p0 0.005175 ± 3.956e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046

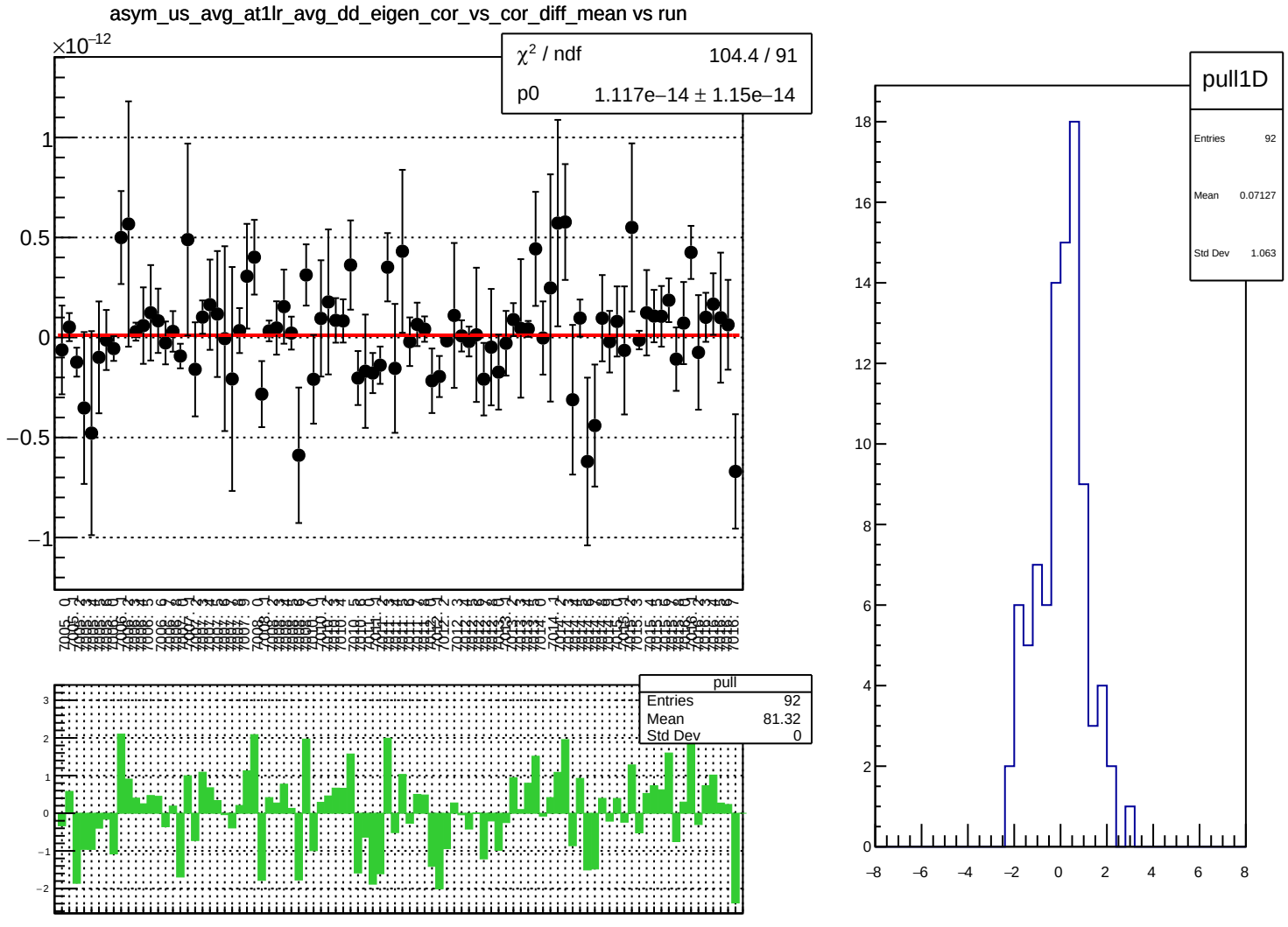

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.86 / 91
p0 0.04908 ± 0.04956
pull
Entries 92
Mean 8.383
Std Dev 0

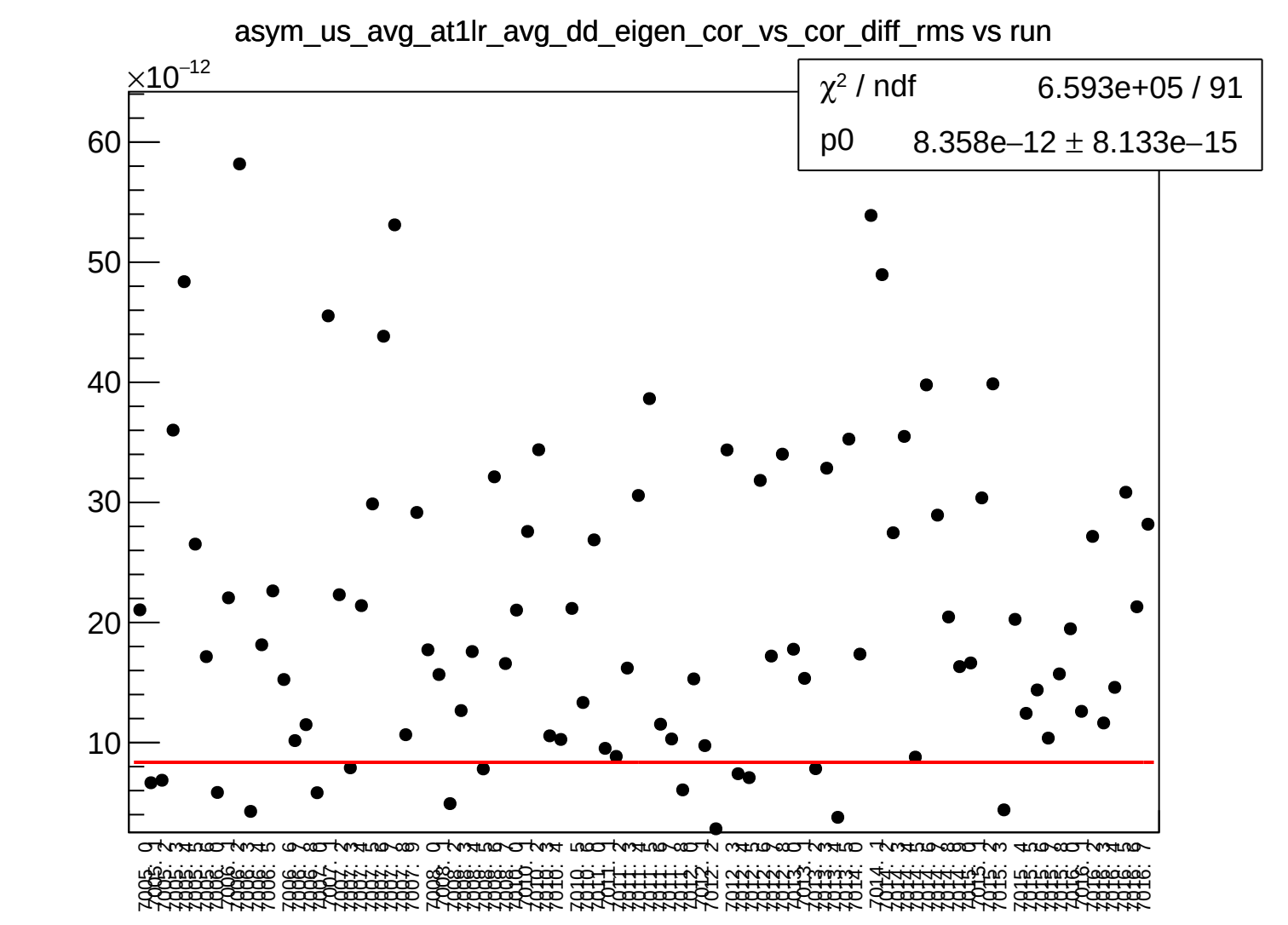

pull1D
Entries 92
Mean 0.05694
Std Dev 0.9063

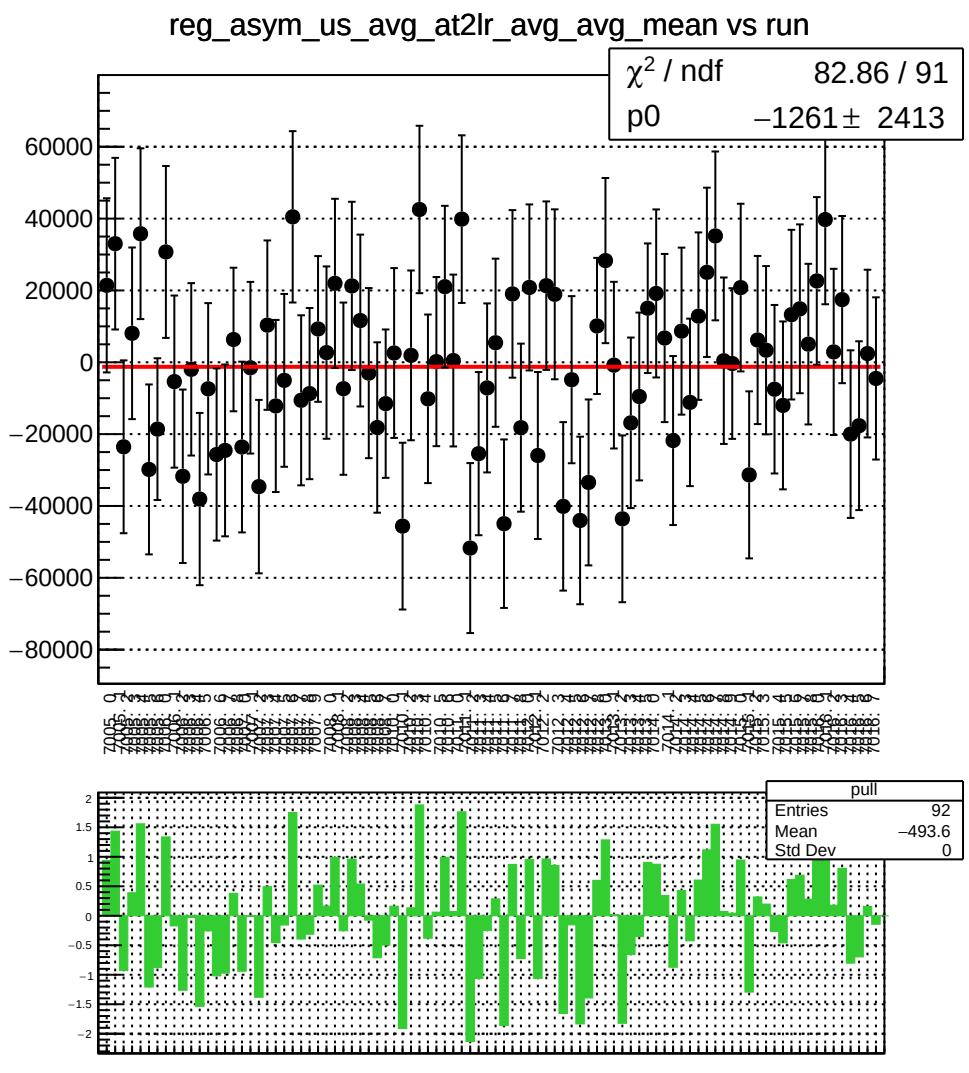

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.205e+05 / 91
p0 42.85 ± 0.03505
100
90
80
70
60
50
40
30
20
10

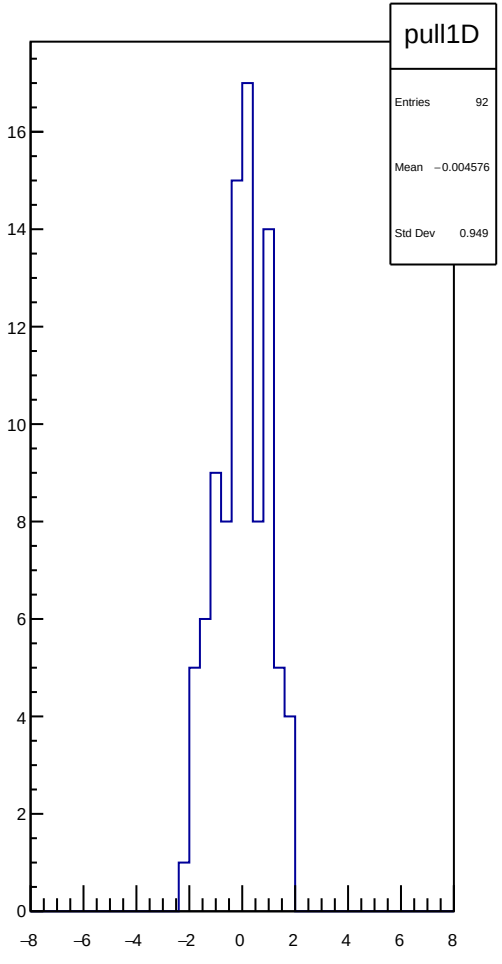

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.86 / 91
p0 0.04908 ± 0.04956
pull
Entries 92
Mean 8.383
Std Dev 0
pull1D
Entries 92
Mean 0.05694
Std Dev 0.9063

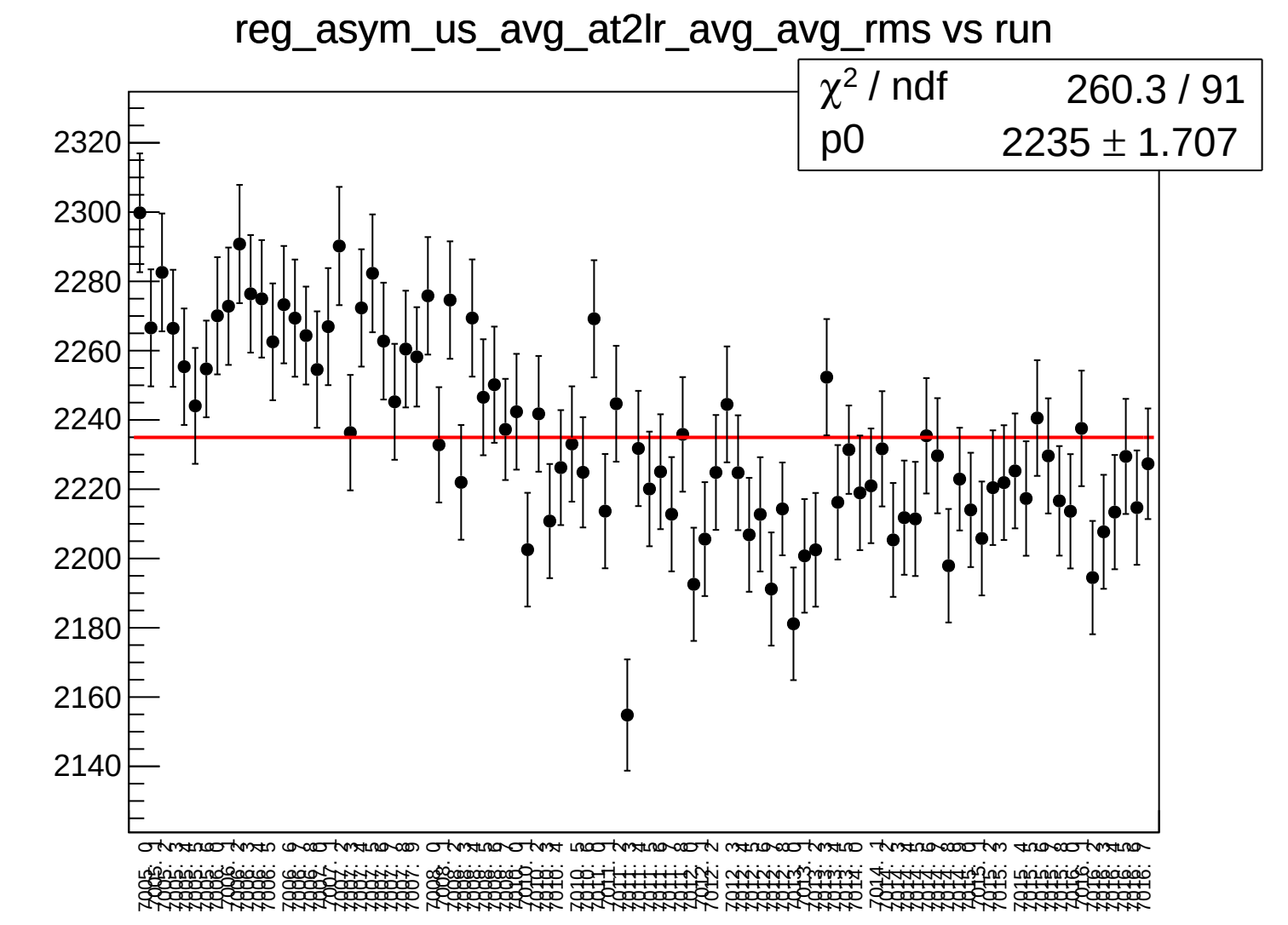

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.205e+05 / 91
p0 42.85 ± 0.03505
100
90
80
70
60
50
40
30
20
10

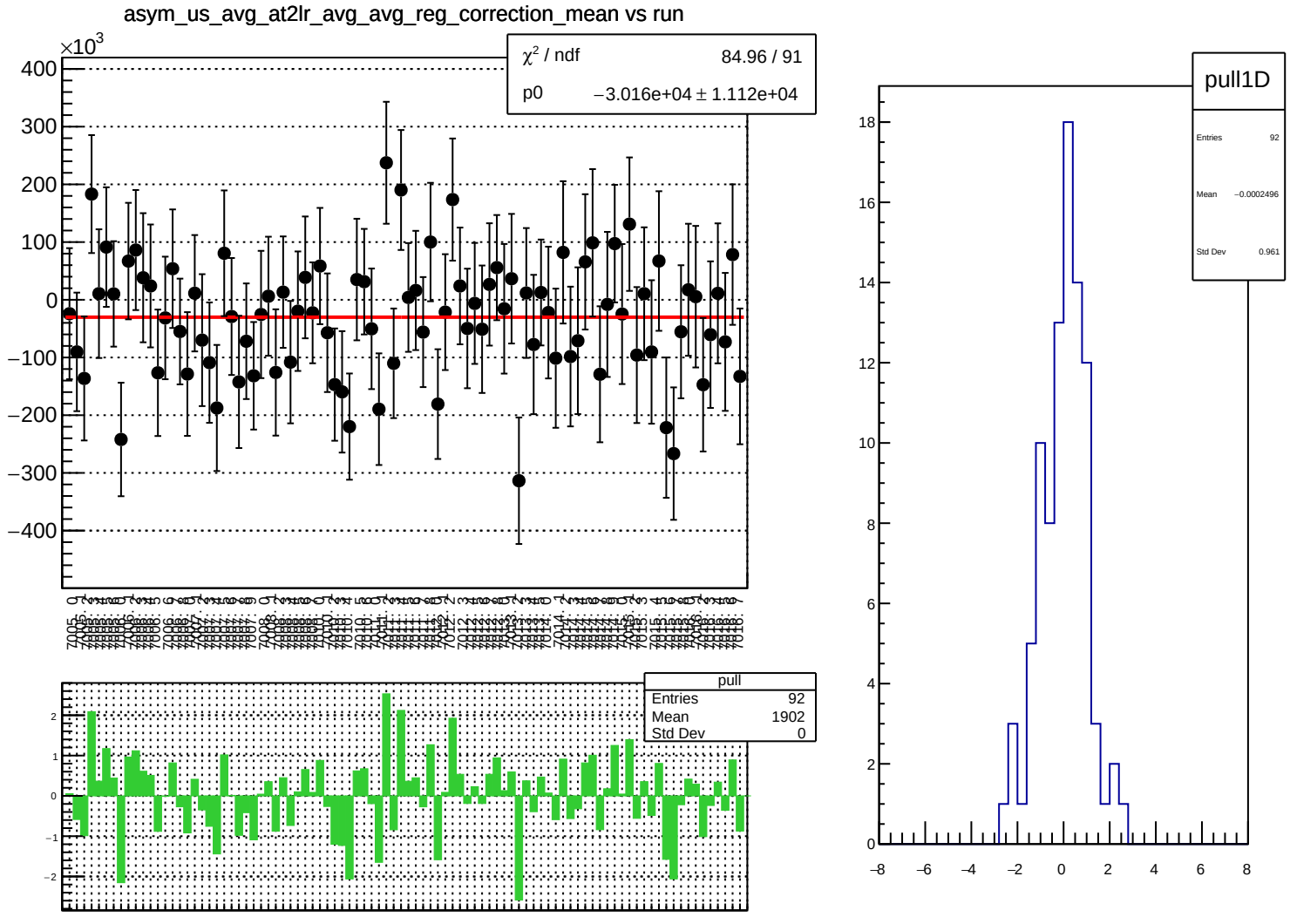

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.4 / 91
p0 1.117e−14 ± 1.15e−14
1
0.5
0
−0.5
−1
pull
Entries 92
Mean 81.32
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.07127
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

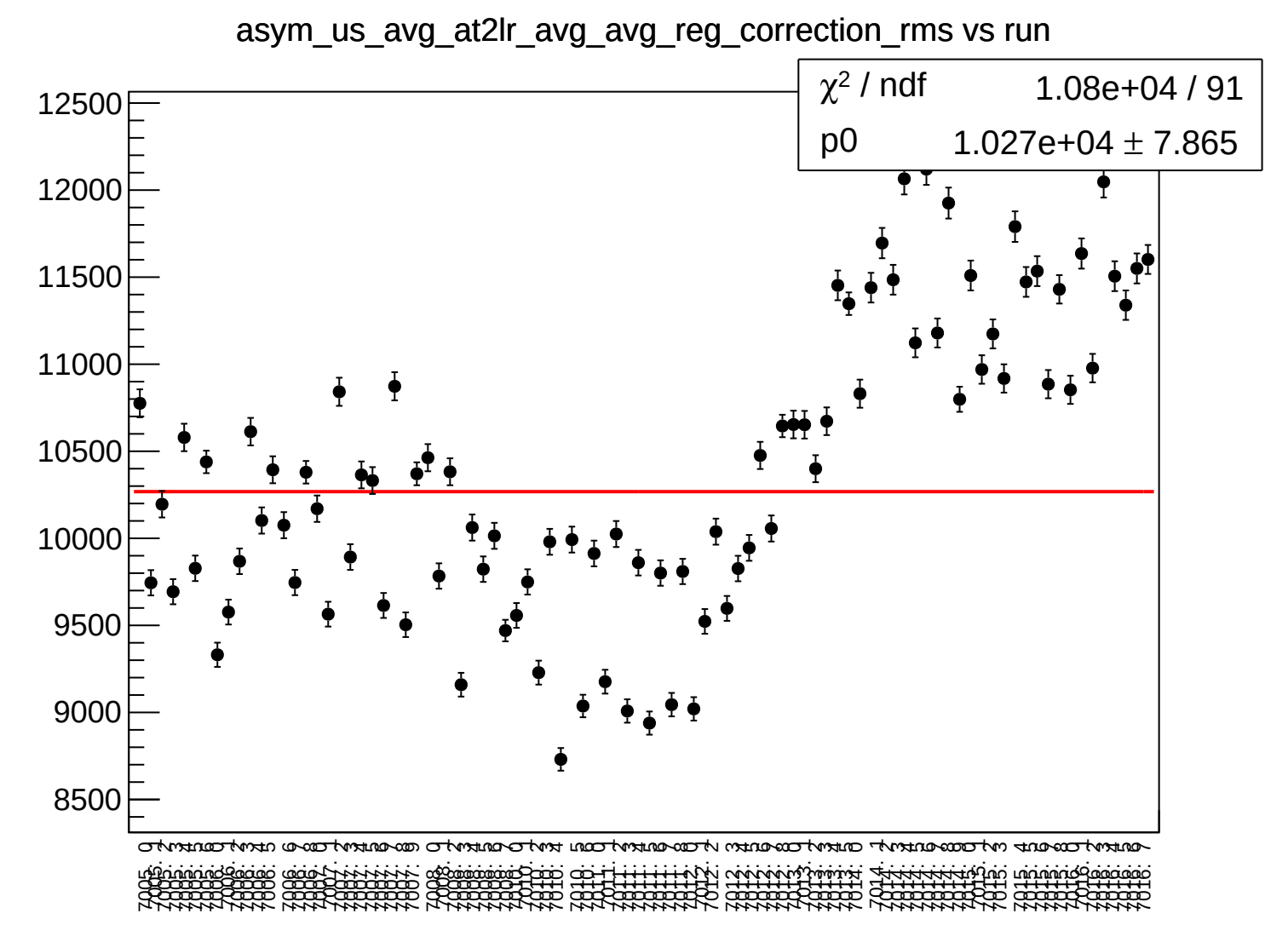

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.593e+05 / 91
p0 8.358e−12 ± 8.133e−15
60
50
40
30
20
10

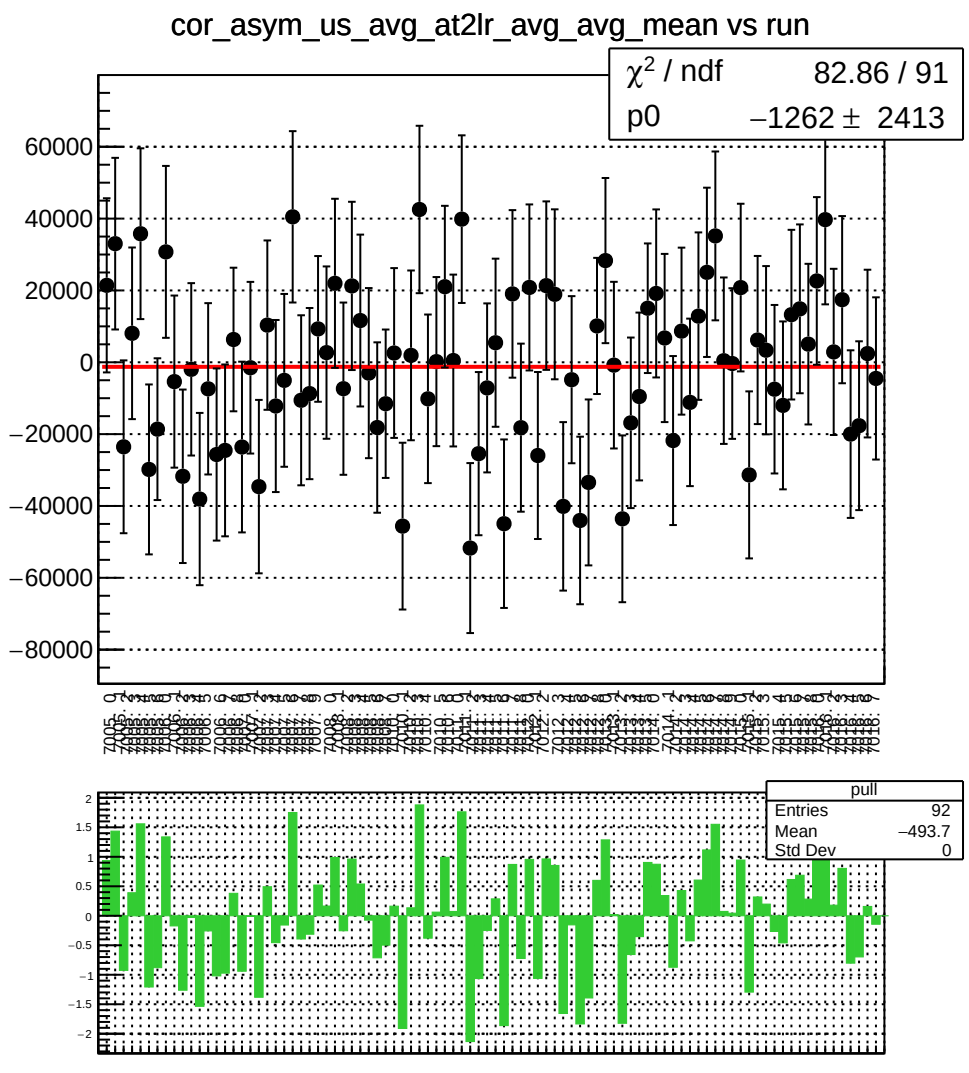

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 82.86 / 91
p0 −1261 ± 2413
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −493.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

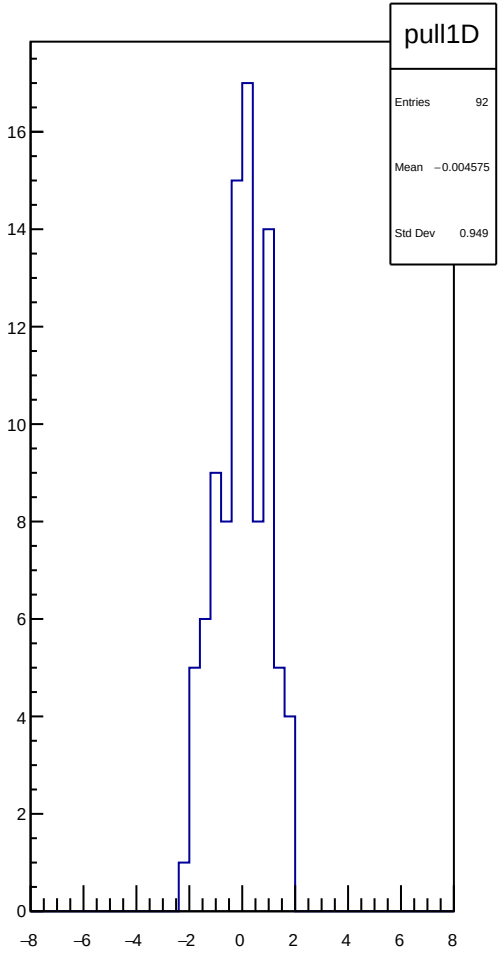

pull1D
Entries 92
Mean −0.004576
Std Dev 0.949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

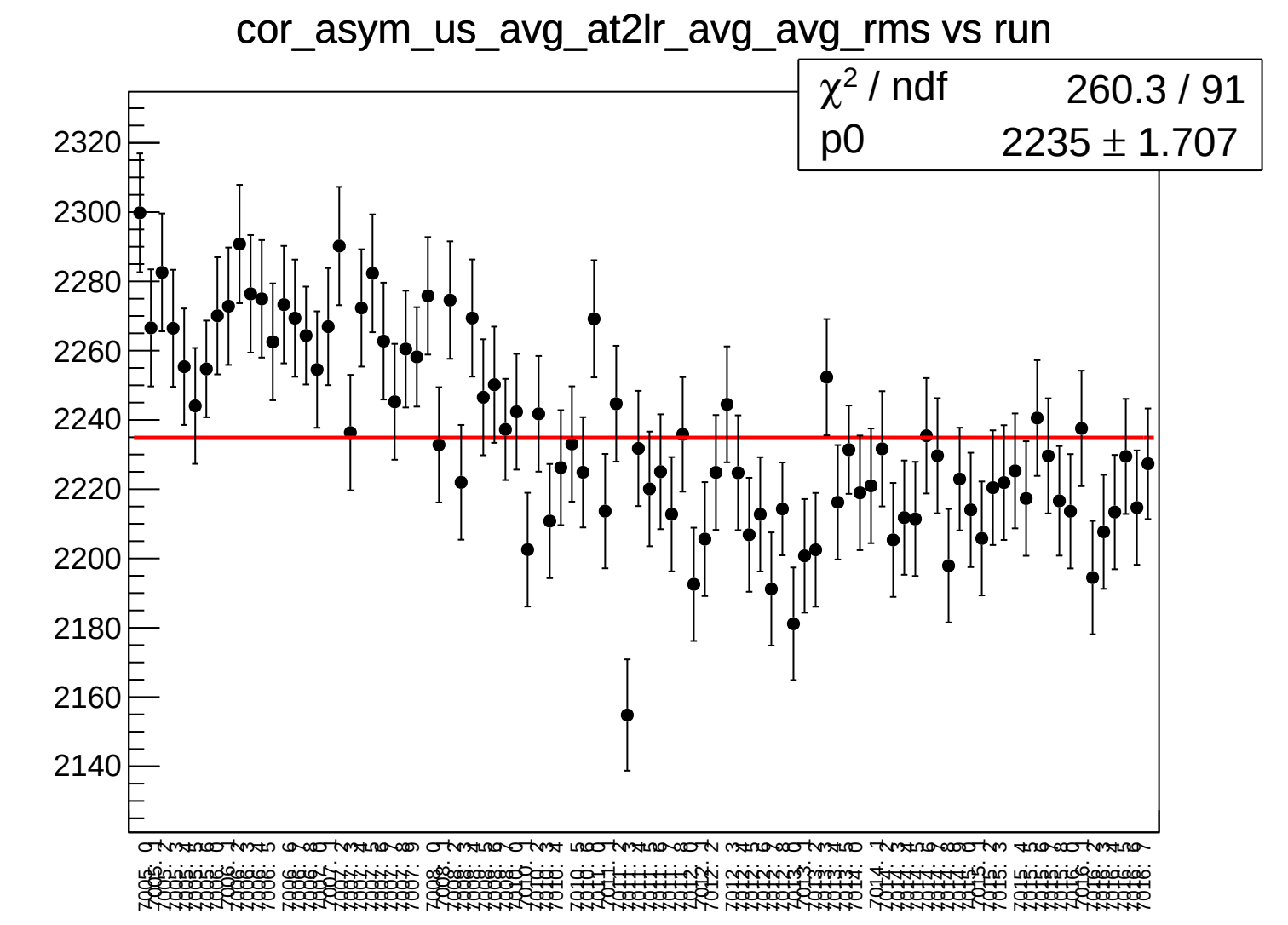

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 260.3 / 91
p0 2235 ± 1.707
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

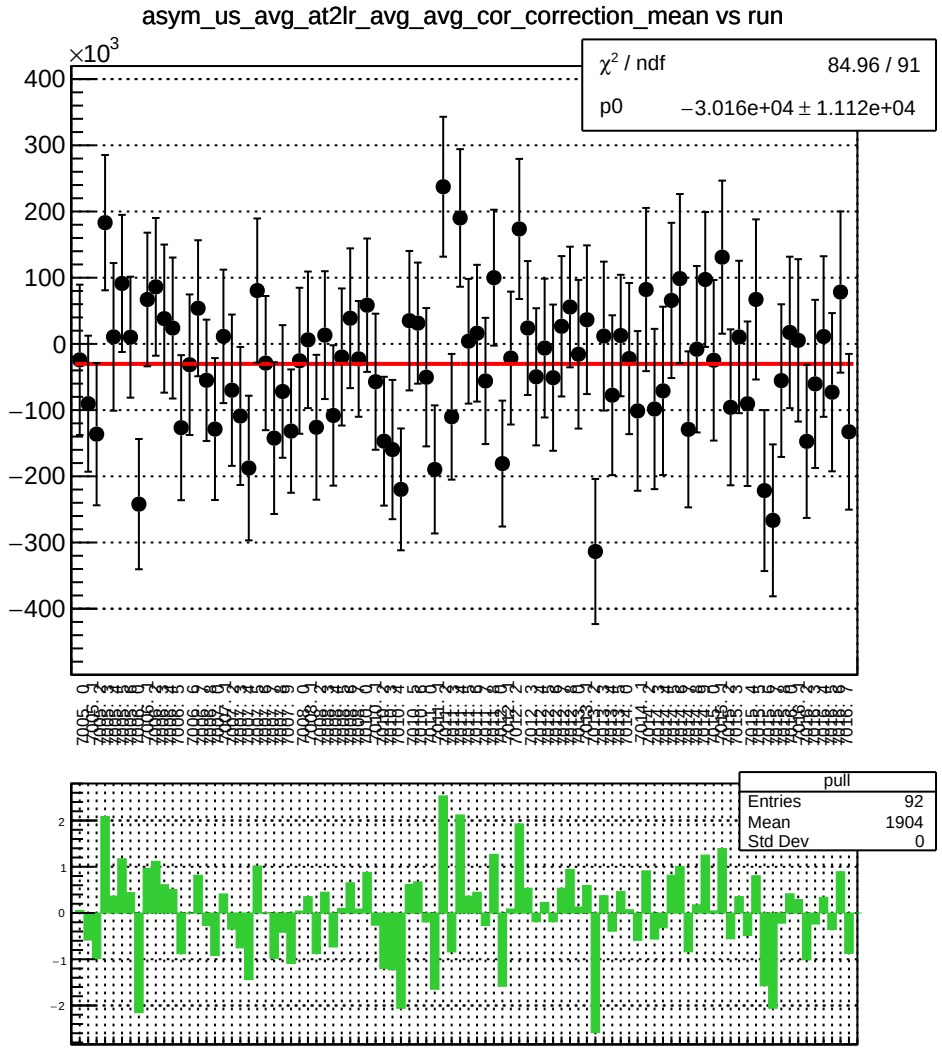

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
χ² / ndf 84.96 / 91
p0 −3.016e+04 ± 1.112e+04
pull
Entries 92
Mean 1902
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0002496
Std Dev 0.961
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

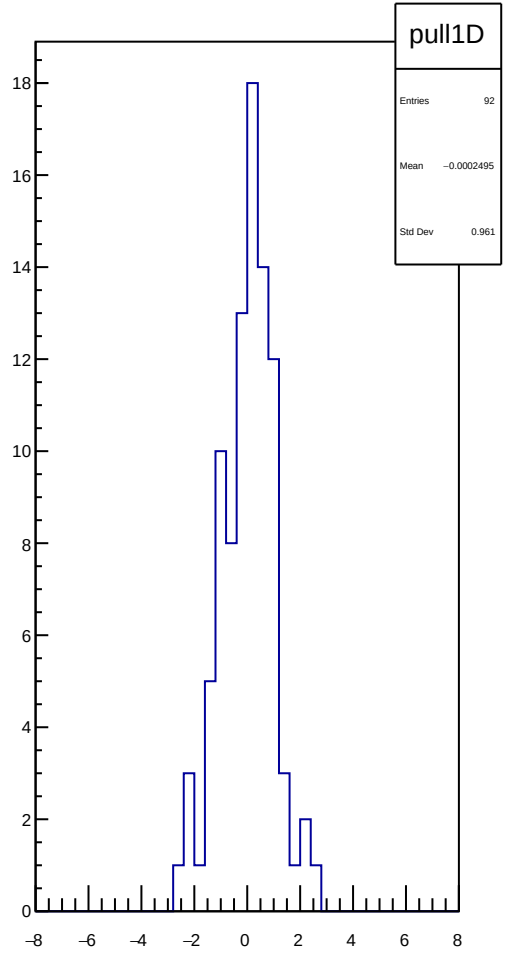

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.08e+04 / 91
p0 1.027e+04 ± 7.865
12500
12000
11500
11000
10500
10000
9500
9000
8500

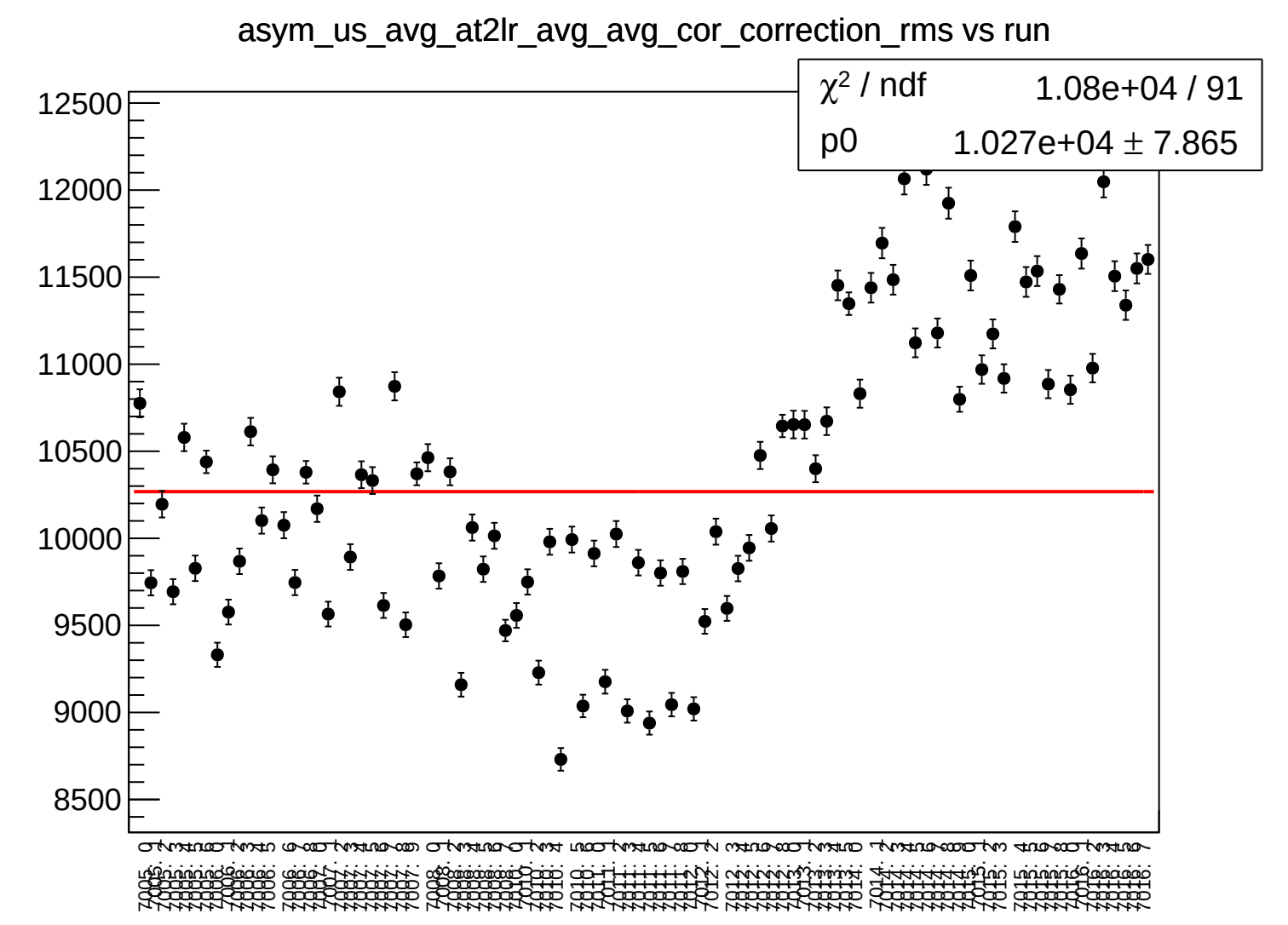

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 82.86 / 91
p0 −1262 ± 2413
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −493.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

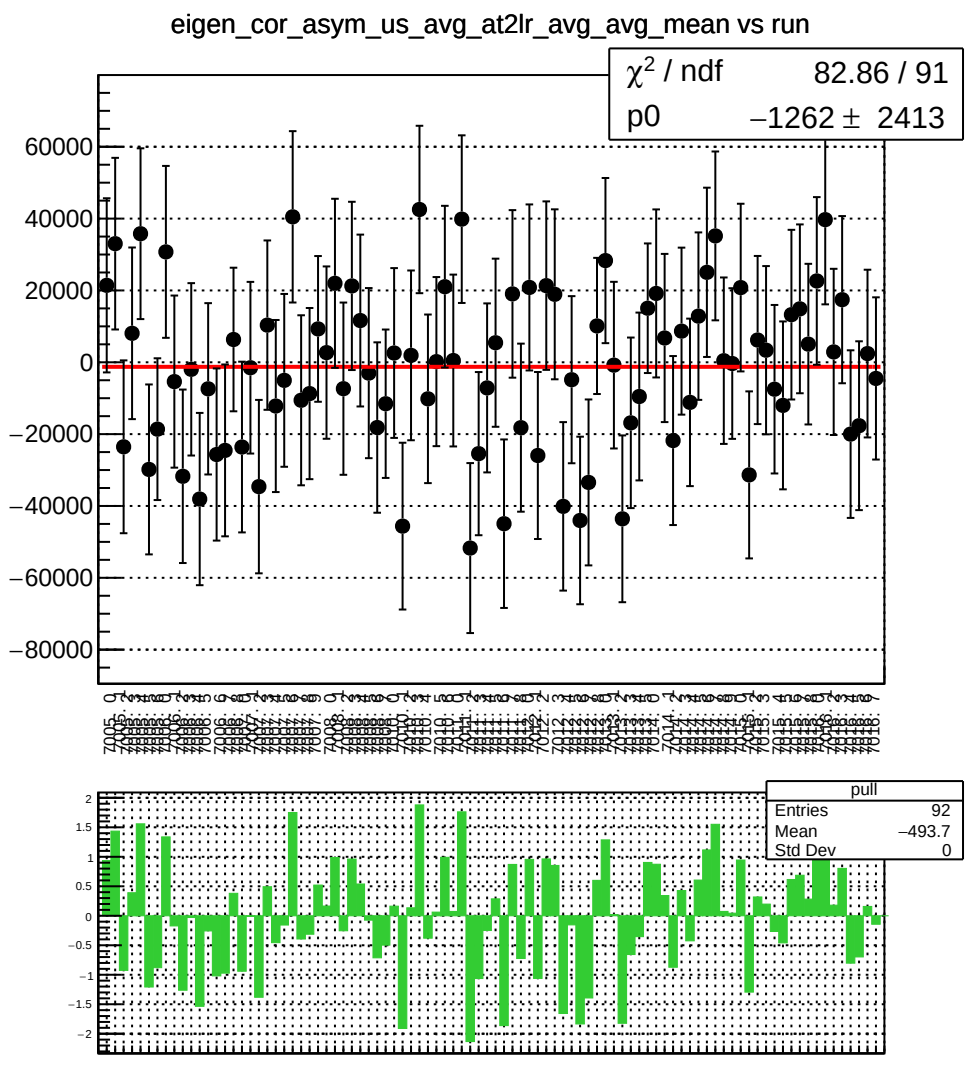

pull1D
Entries 92
Mean −0.004575
Std Dev 0.949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

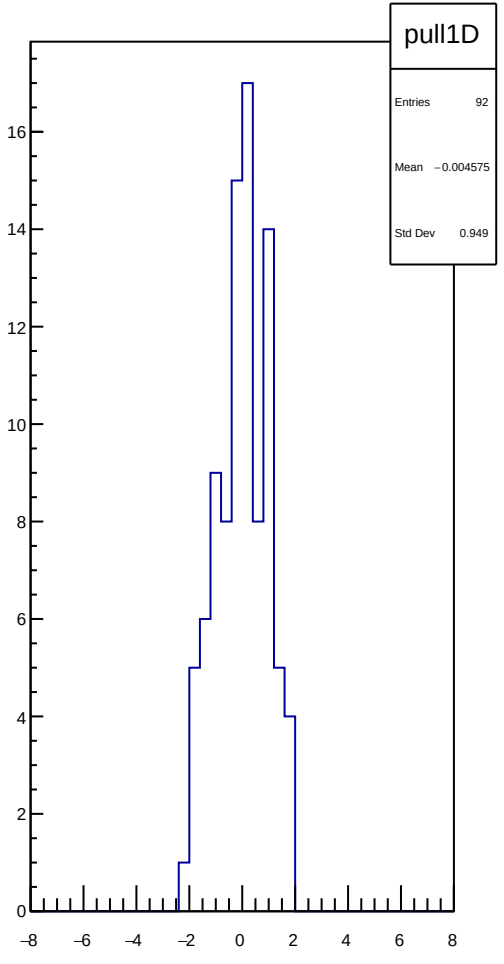

cor_asym_us_avg_at2lr_avg_avg_rms vs run
$\chi^2$ / ndf 260.3 / 91
p0 2235 ± 1.707
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

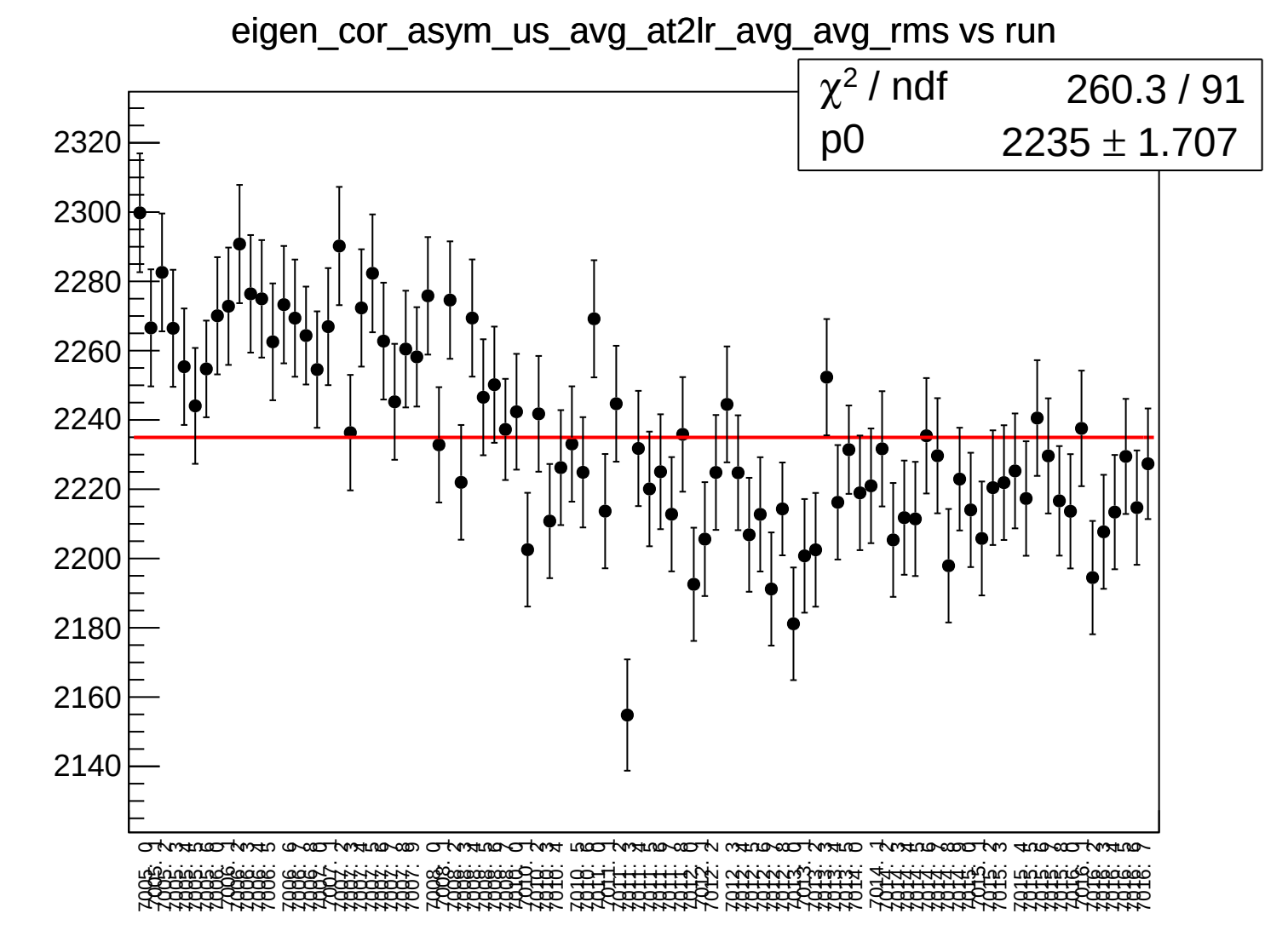

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.96 / 91
p0 −3.016e+04 ± 1.112e+04
pull
Entries 92
Mean 1904
Std Dev 0

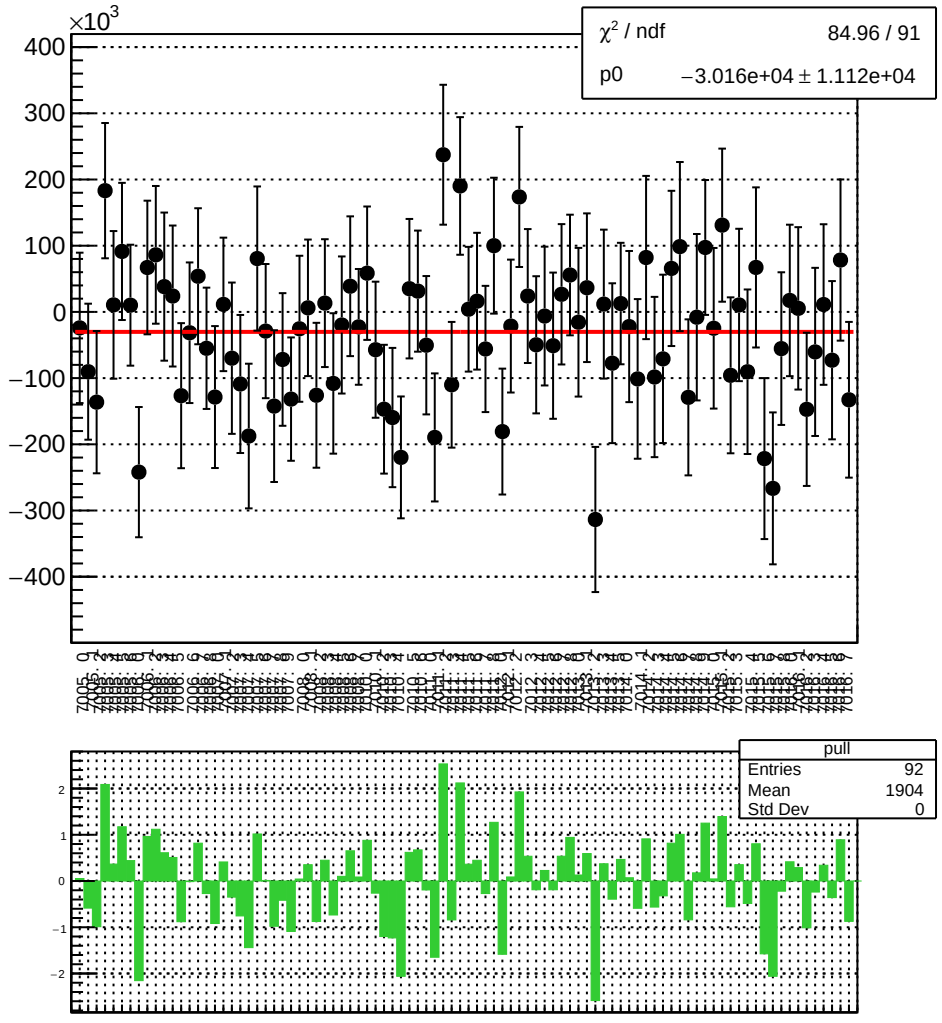

pull1D
Entries 92
Mean −0.0002495
Std Dev 0.961

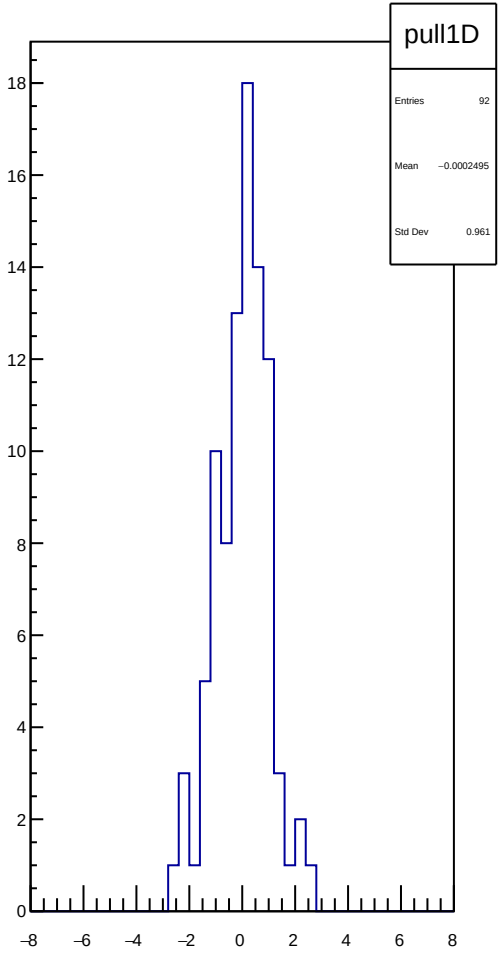

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.08e+04 / 91
p0 1.027e+04 ± 7.865
12500
12000
11500
11000
10500
10000
9500
9000
8500

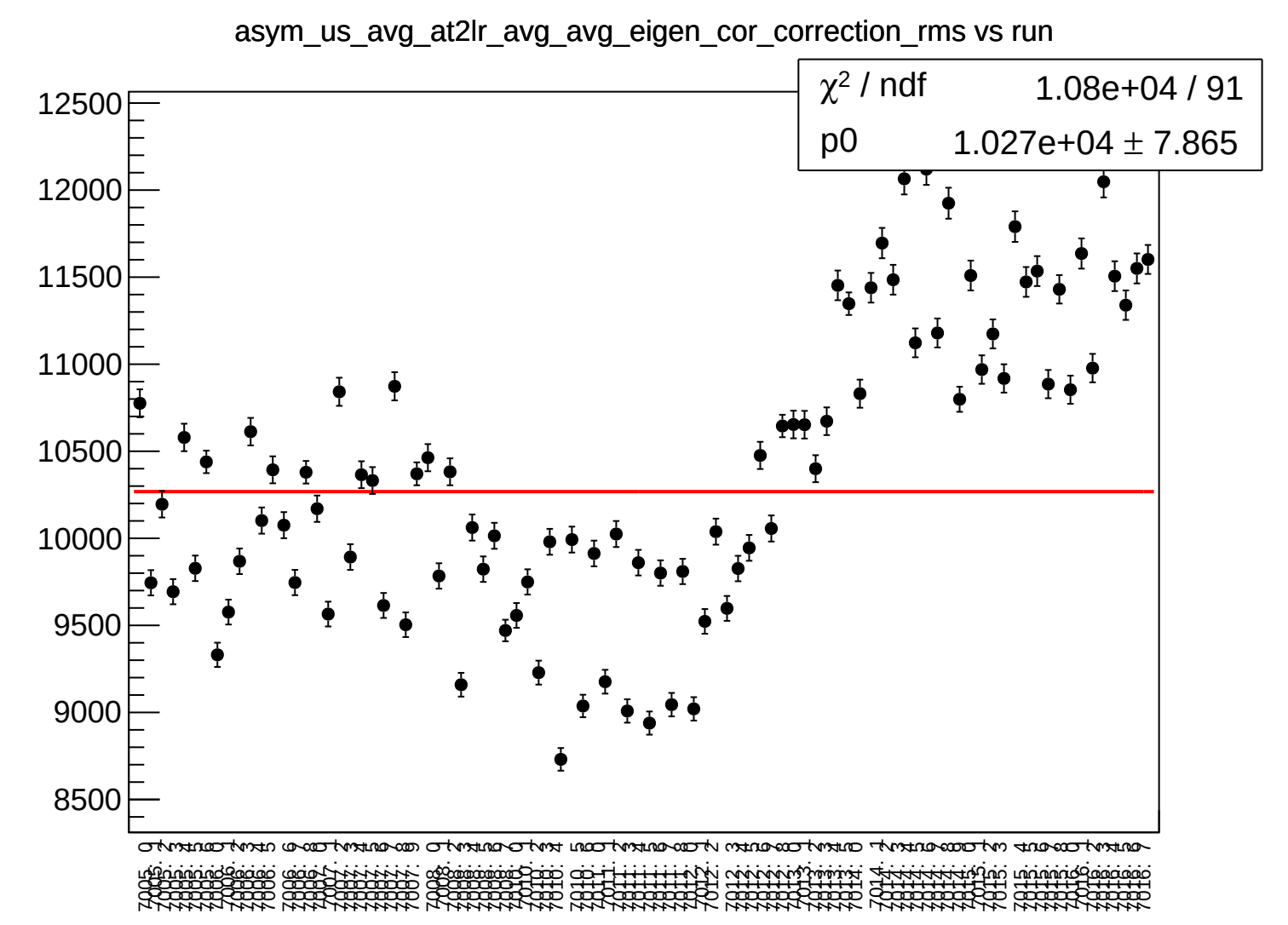

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 82.86 / 91
p0 −1262 ± 2413
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −493.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

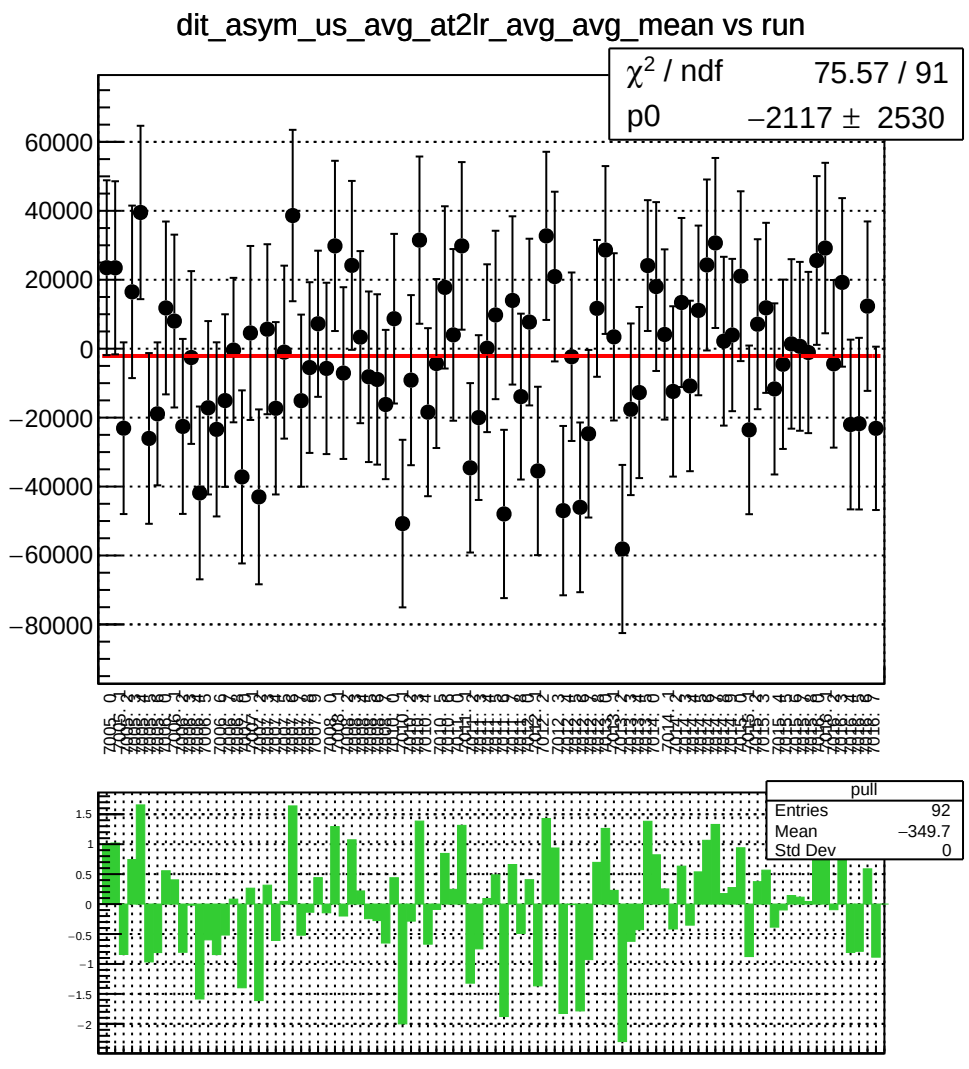

pull1D
Entries 92
Mean −0.004575
Std Dev 0.949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

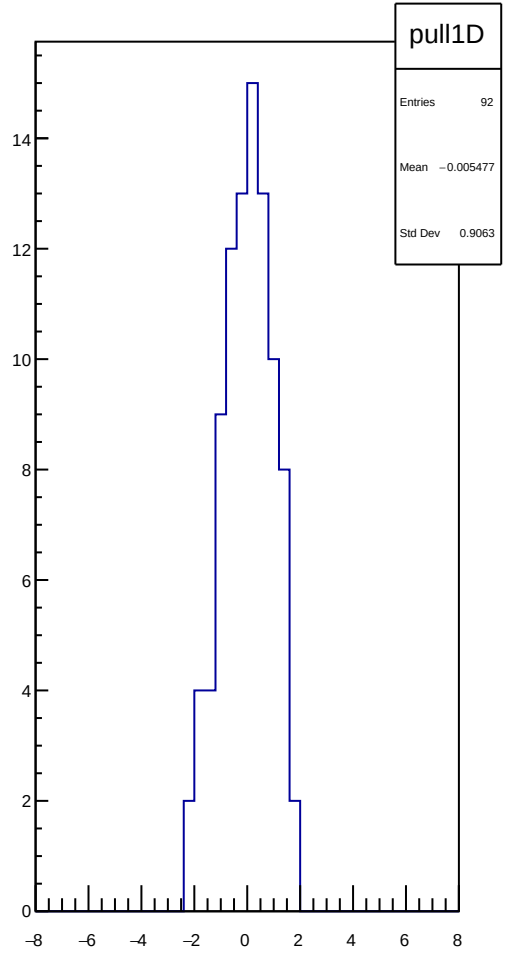

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 260.3 / 91
p0 2235 ± 1.707
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140

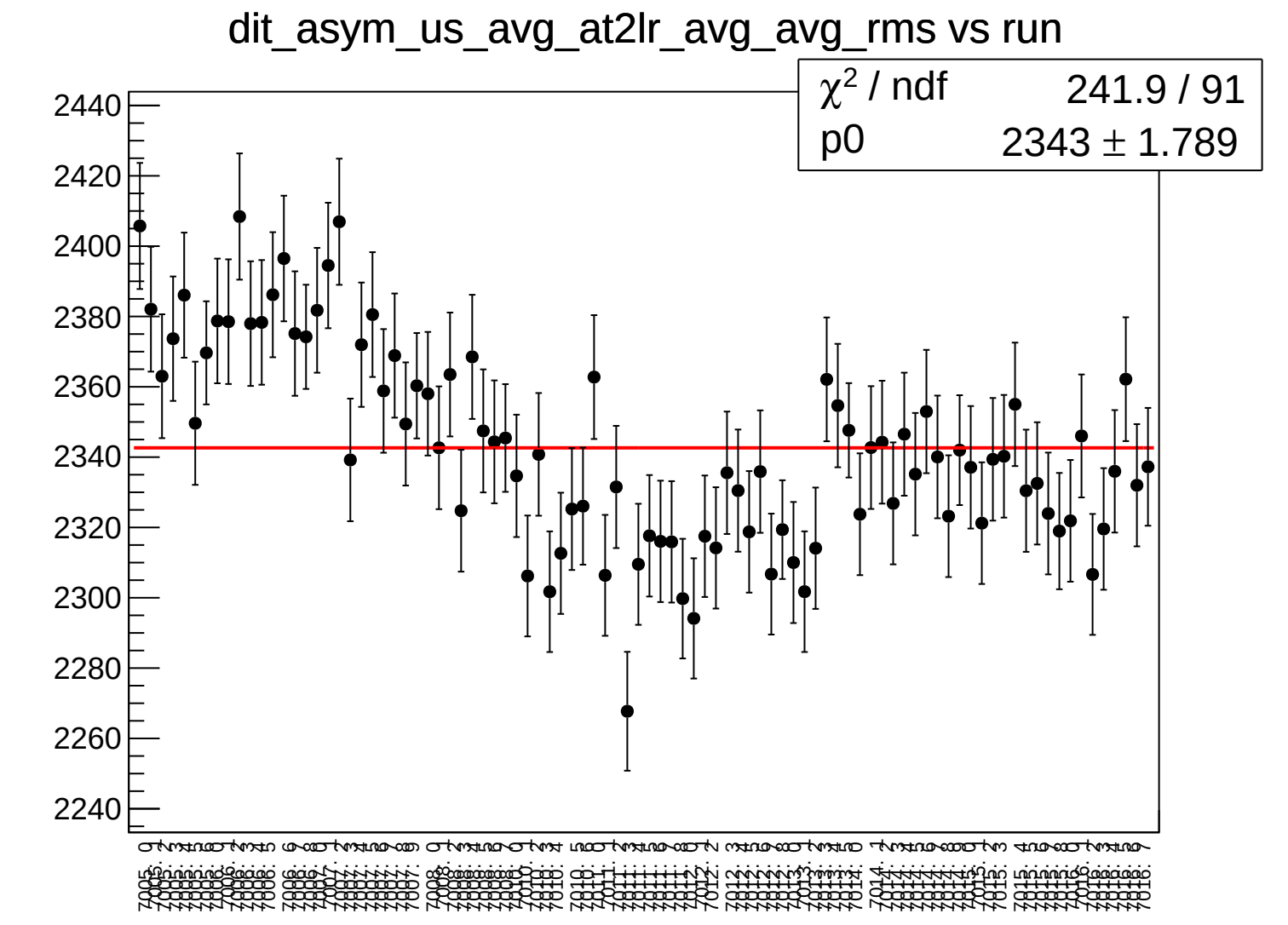

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.96 / 91
p0 −3.016e+04 ± 1.112e+04
pull
Entries 92
Mean 1904
Std Dev 0

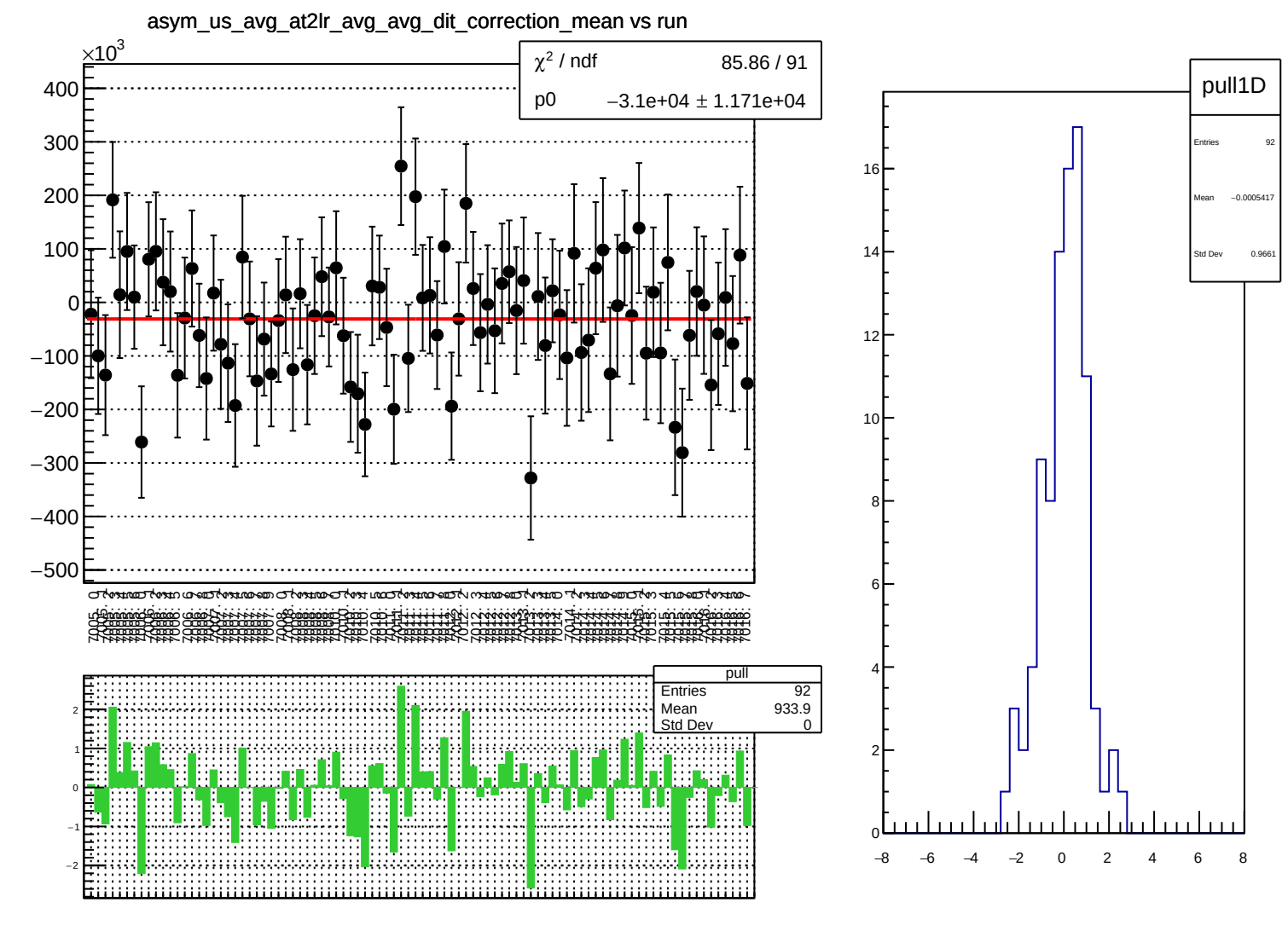

pull1D
Entries 92
Mean −0.0002495
Std Dev 0.961

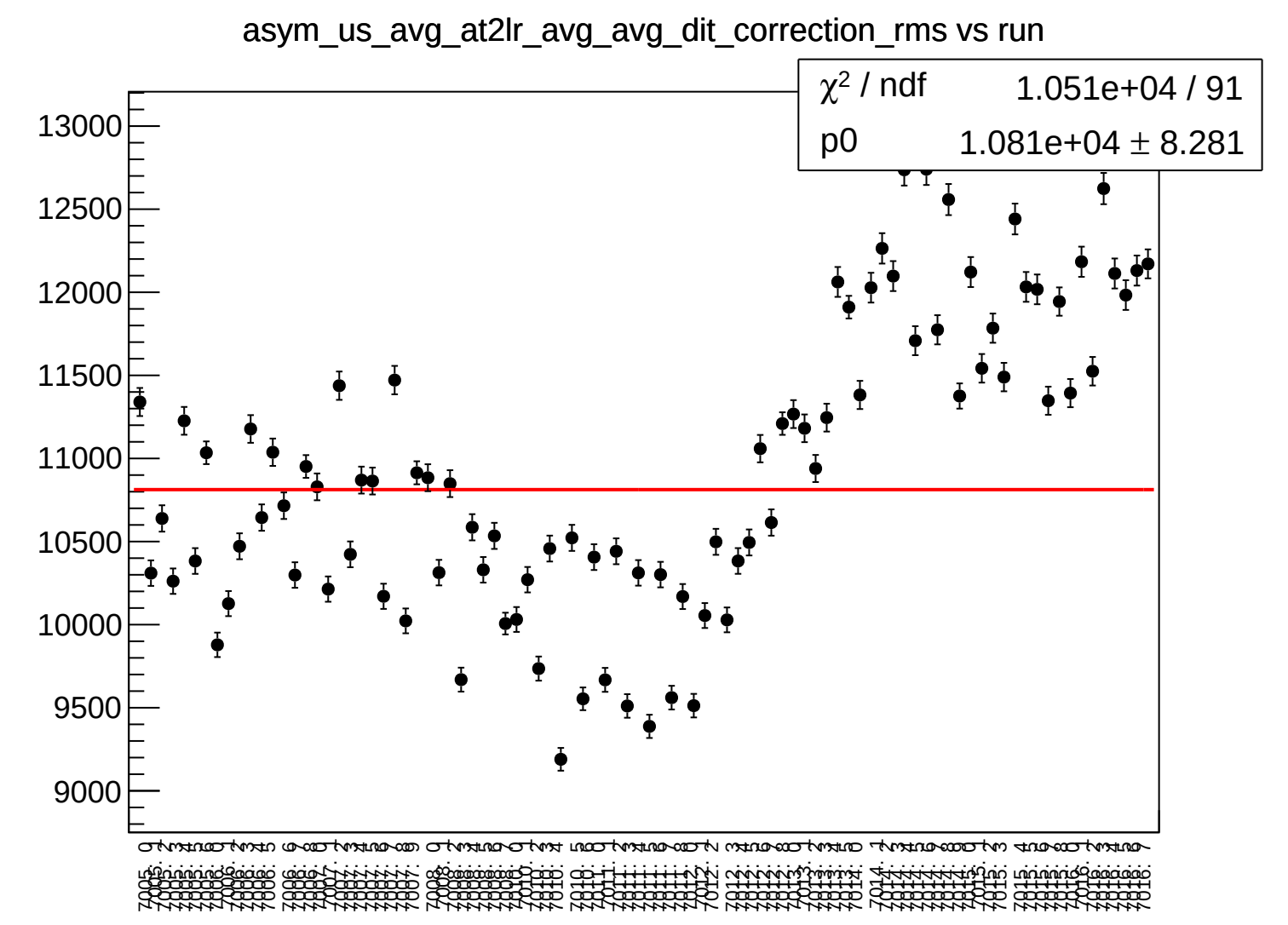

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.08e+04 / 91
p0 1.027e+04 ± 7.865
12500
12000
11500
11000
10500
10000
9500
9000
8500

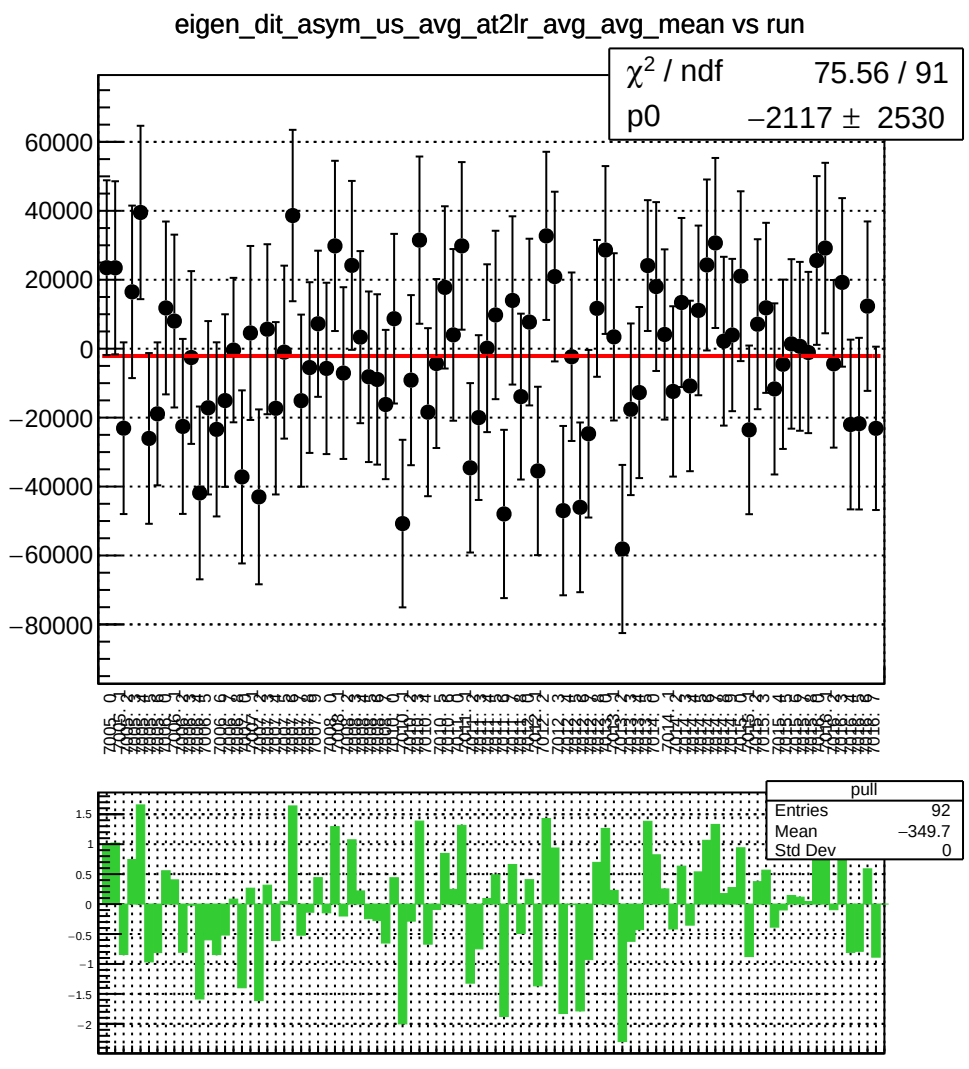

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 75.57 / 91
p0 −2117 ± 2530
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −349.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

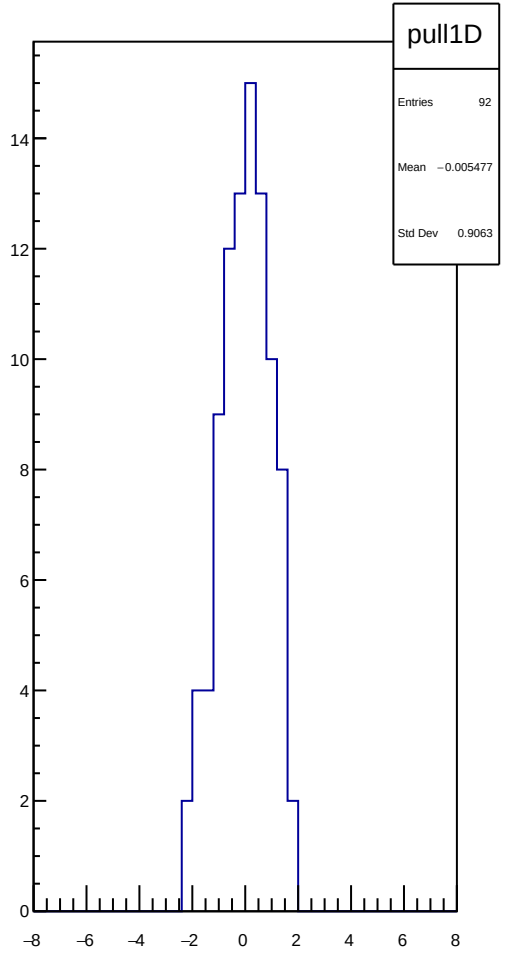

pull1D
Entries 92
Mean −0.005477
Std Dev 0.9063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

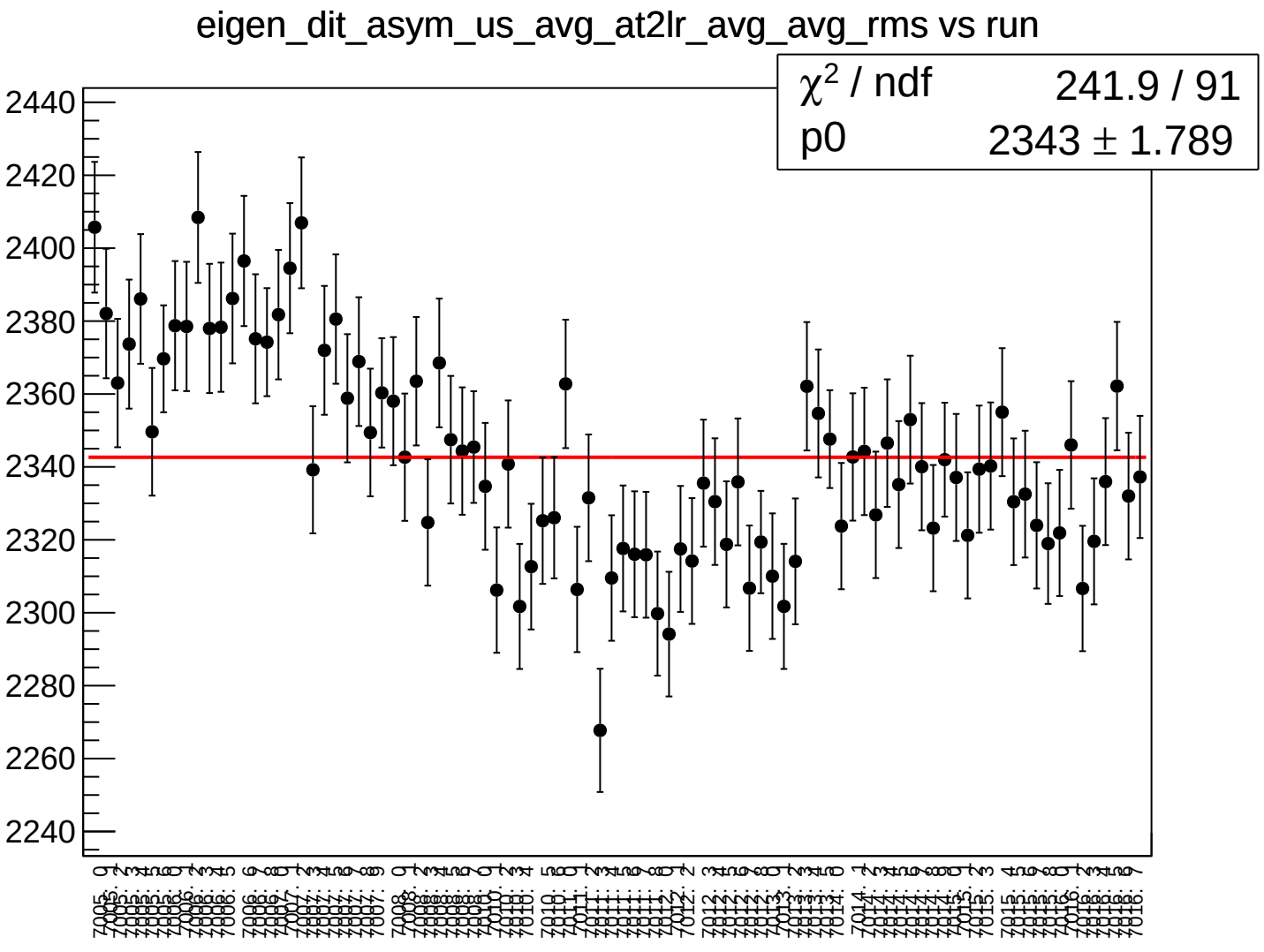

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 241.9 / 91
p0 2343 ± 1.789
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240

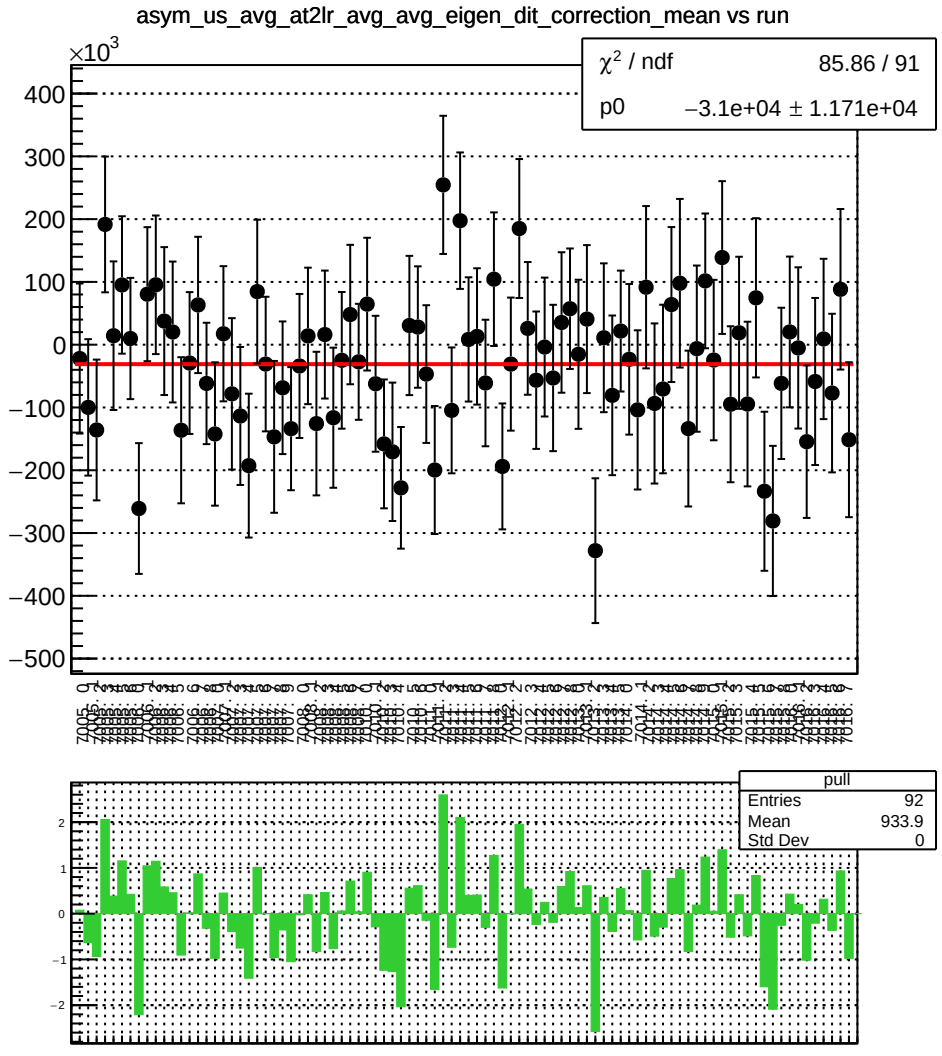

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.86 / 91
p0 −3.1e+04 ± 1.171e+04
pull
Entries 92
Mean 933.9
Std Dev 0
pull1D
Entries 92
Mean −0.0005417
Std Dev 0.9661

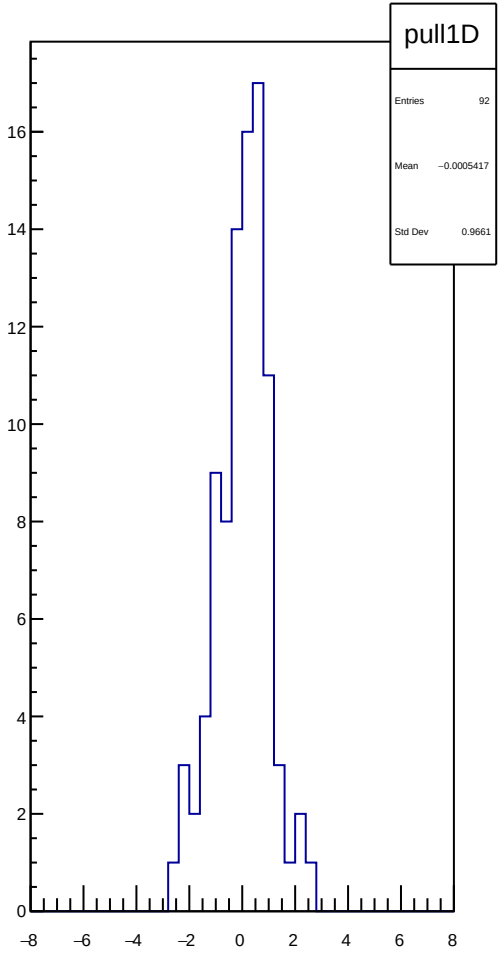

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.051e+04 / 91
p0 1.081e+04 ± 8.281
13000
12500
12000
11500
11000
10500
10000
9500
9000

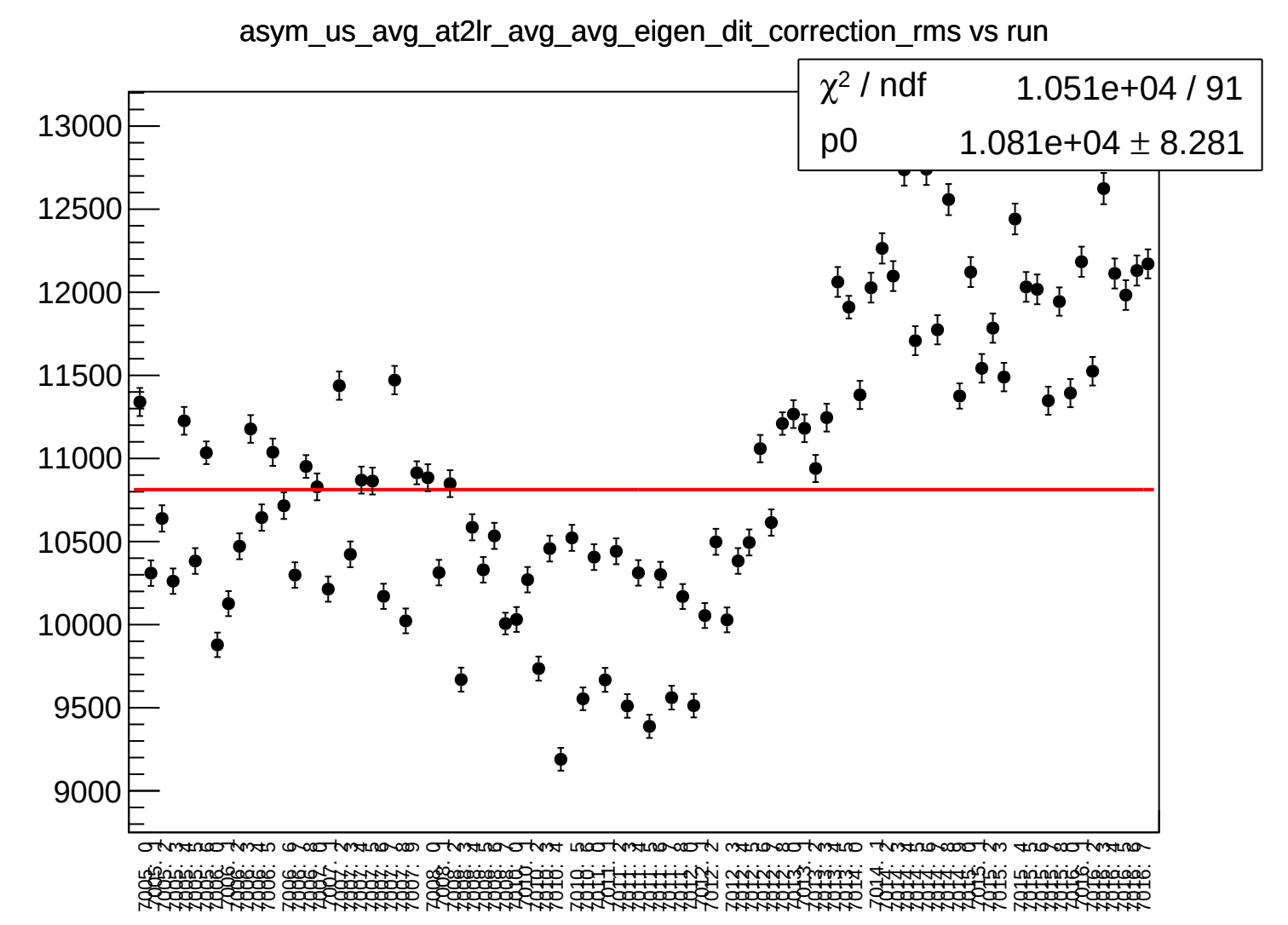

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 75.56 / 91
p0 −2117 ± 2530
pull
Entries 92
Mean −349.7
Std Dev 0

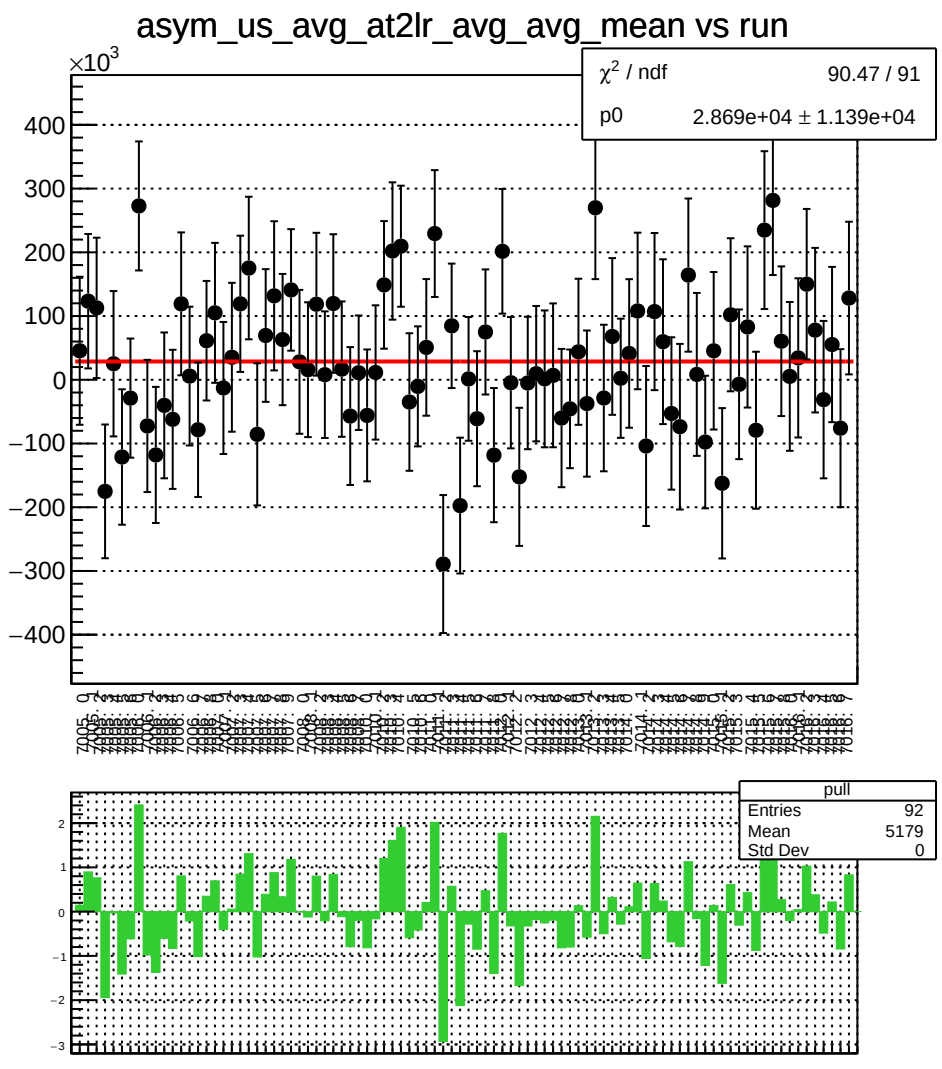

pull1D
Entries 92
Mean −0.005477
Std Dev 0.9063

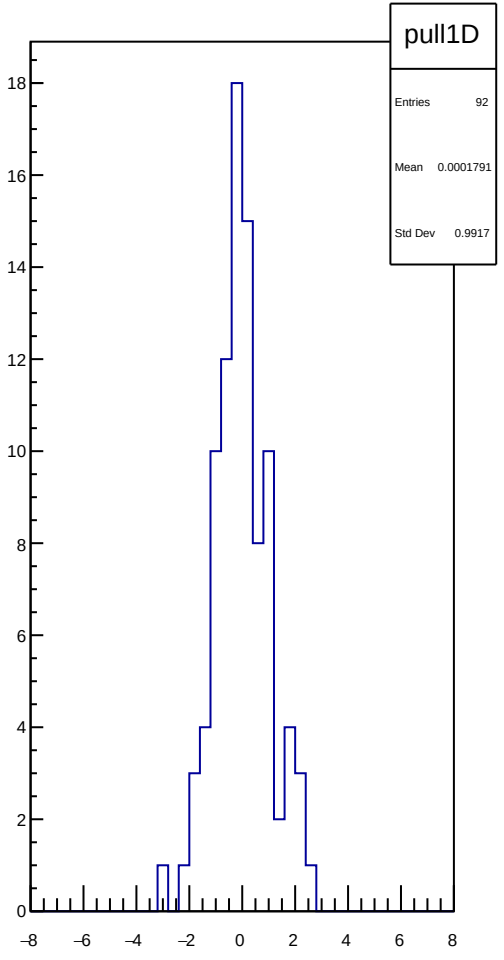

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 241.9 / 91
p0 2343 ± 1.789
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240

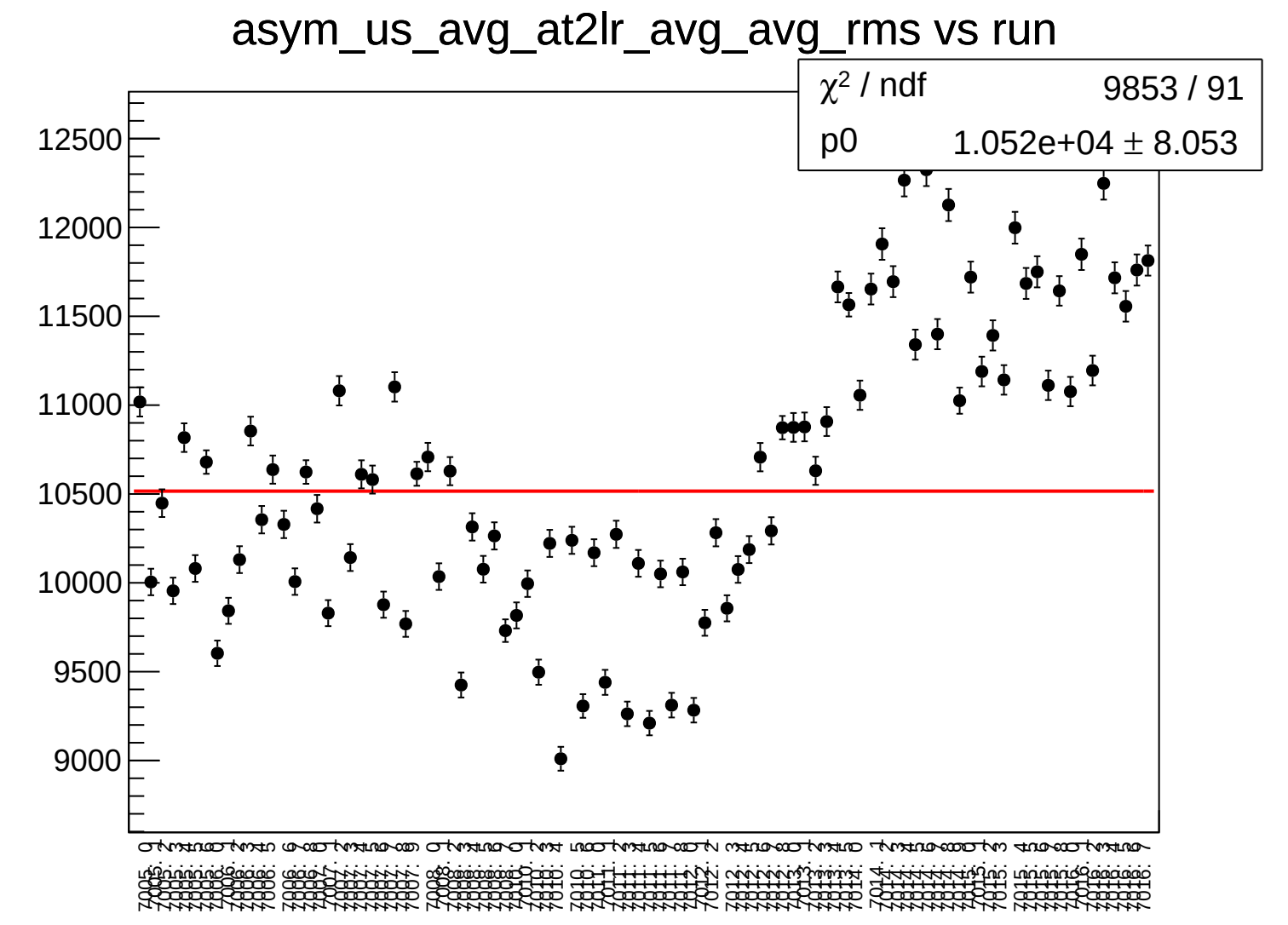

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.86 / 91
p0 −3.1e+04 ± 1.171e+04
pull
Entries 92
Mean 933.9
Std Dev 0

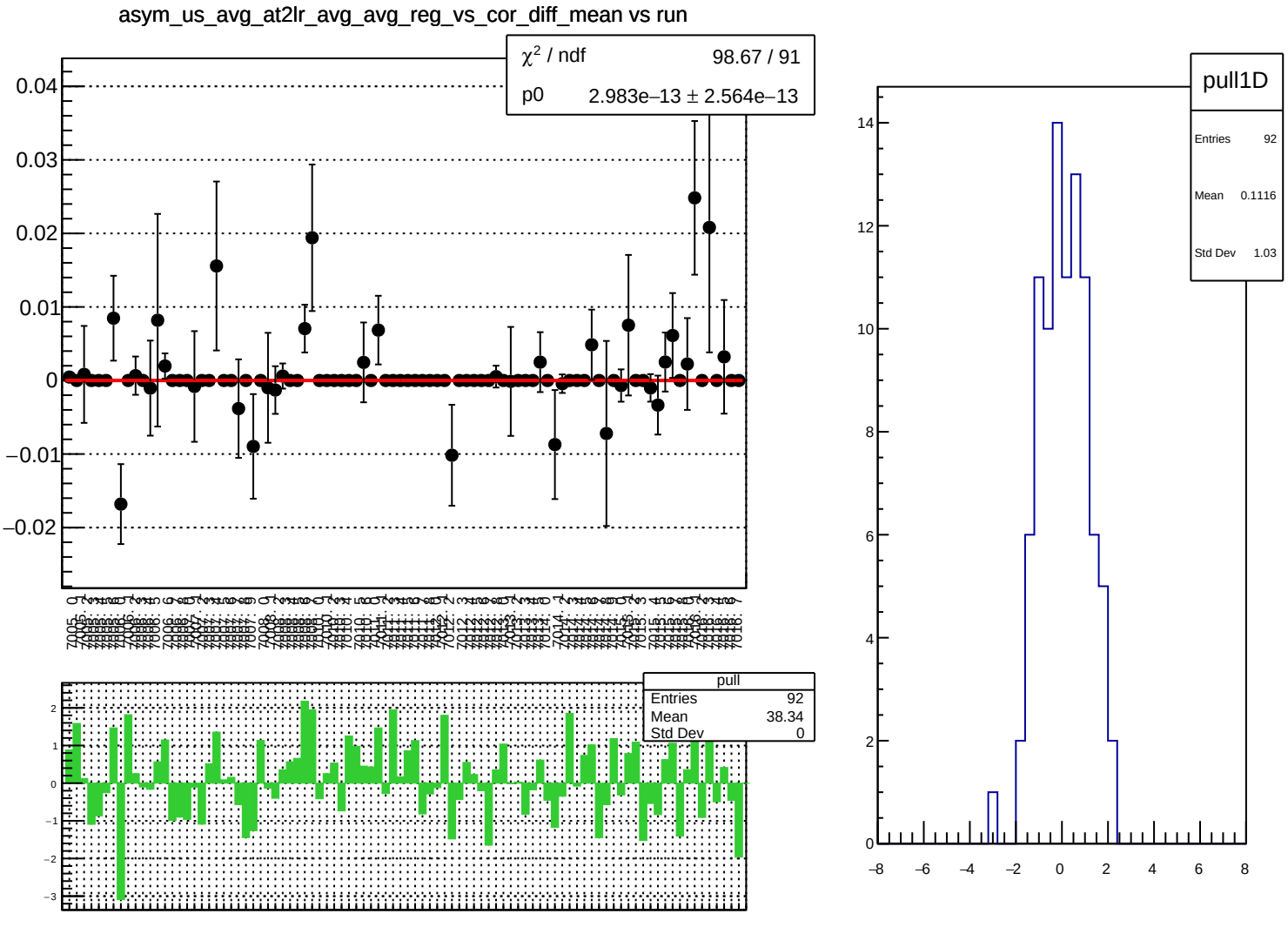

pull1D
Entries 92
Mean −0.0005417
Std Dev 0.9661

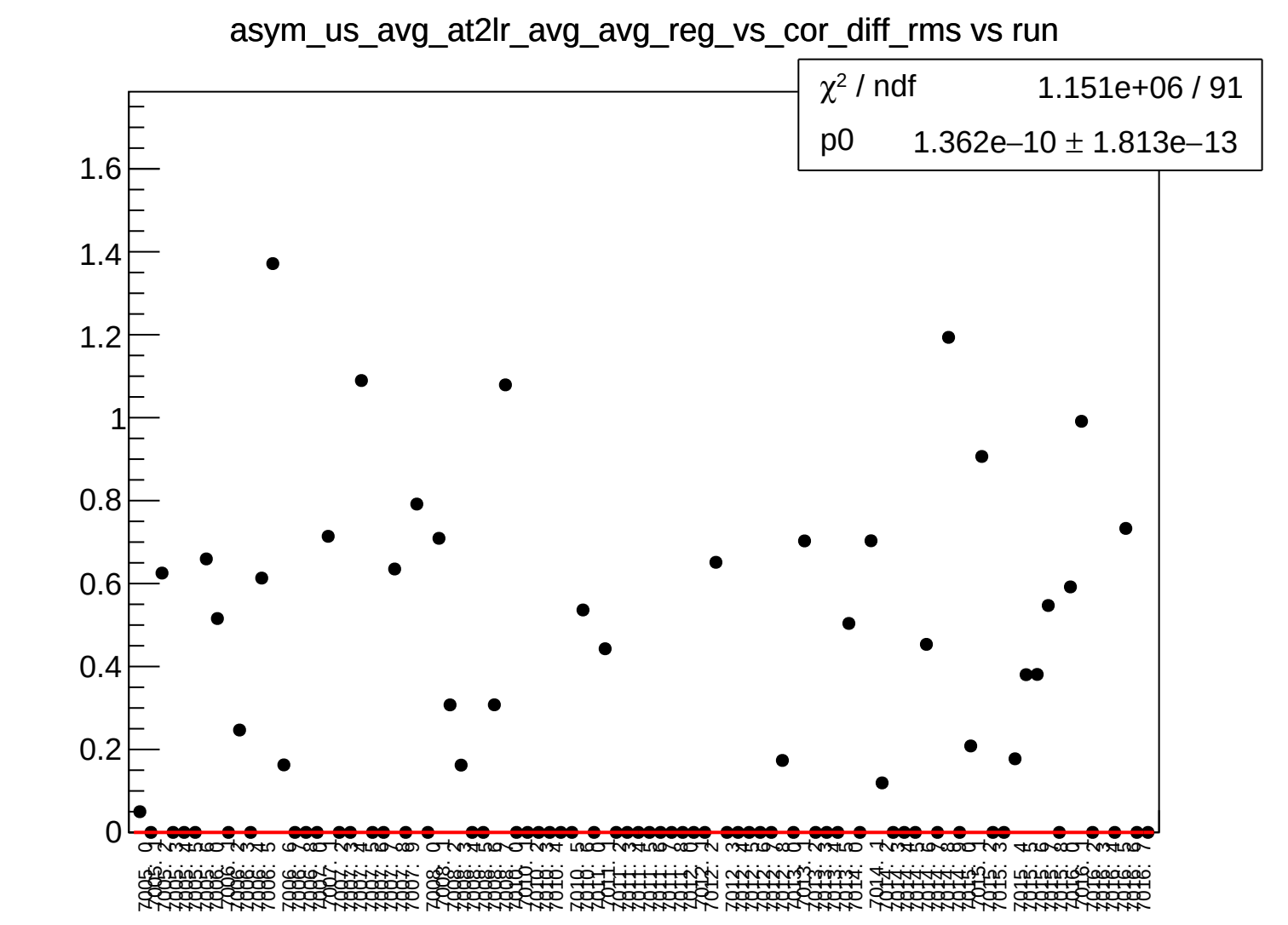

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.051e+04 / 91
p0 1.081e+04 ± 8.281
13000
12500
12000
11500
11000
10500
10000
9500
9000

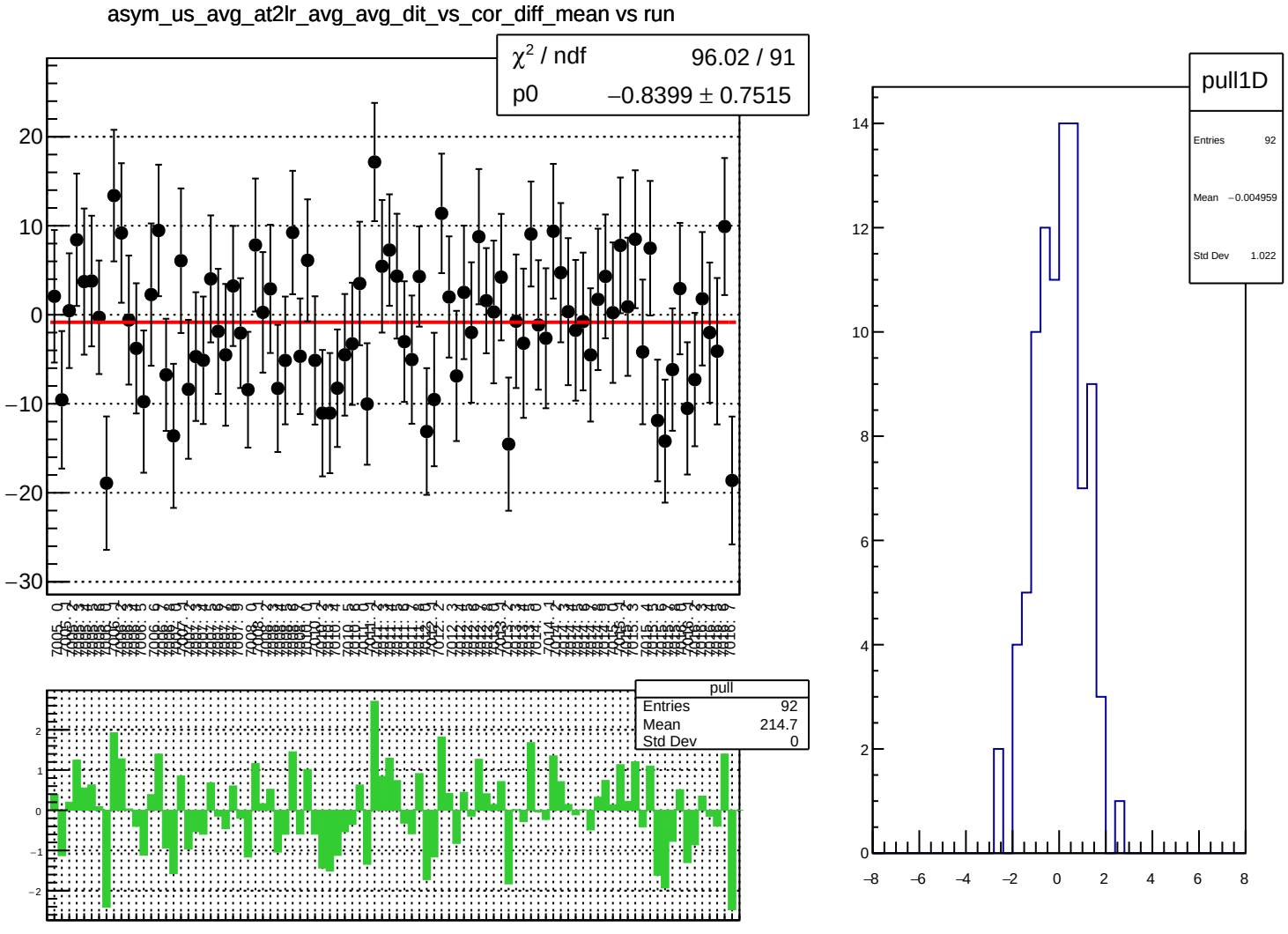

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 90.47 / 91
p0 2.869e+04 ± 1.139e+04
pull
Entries 92
Mean 5179
Std Dev 0

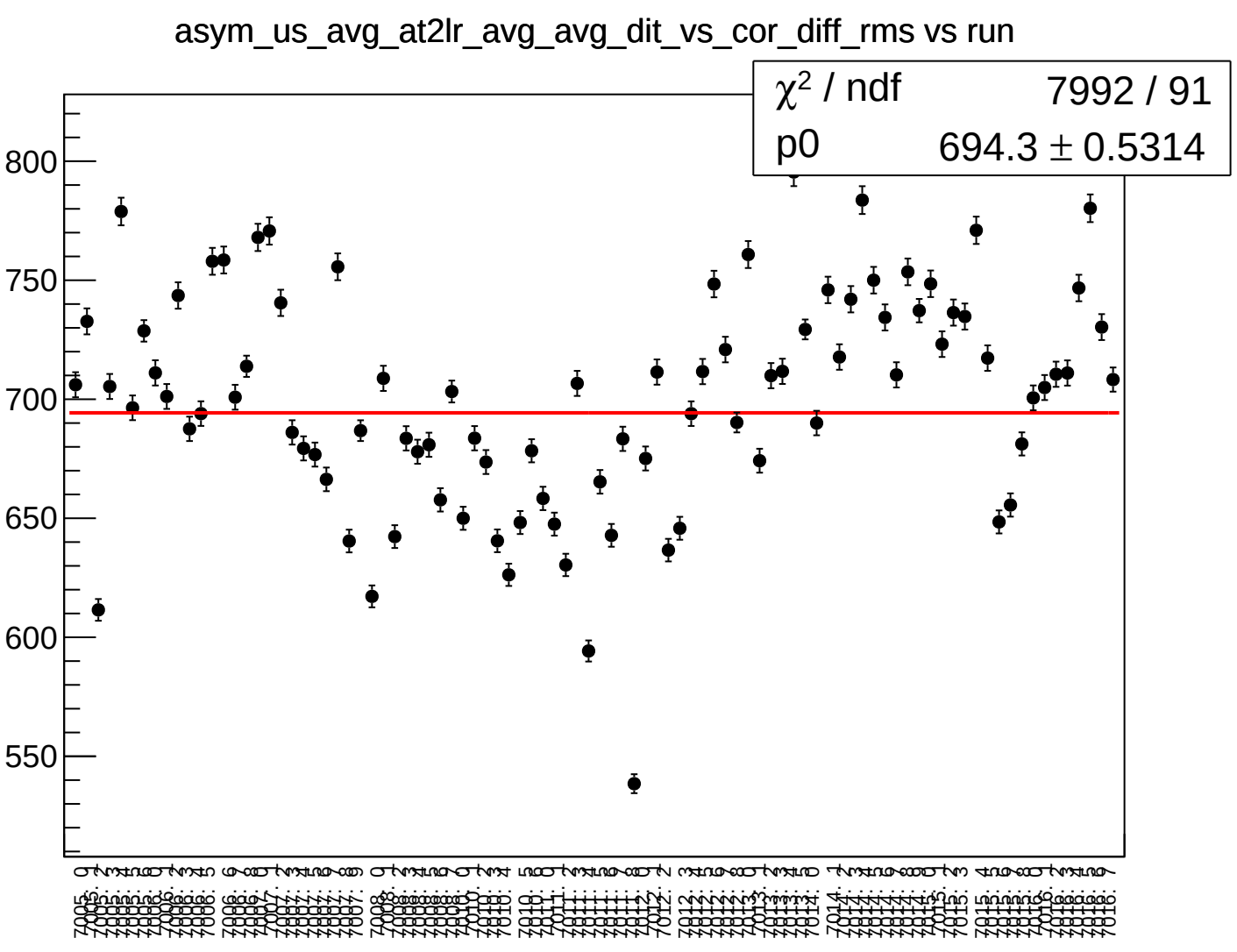

pull1D
Entries 92
Mean 0.0001791
Std Dev 0.9917

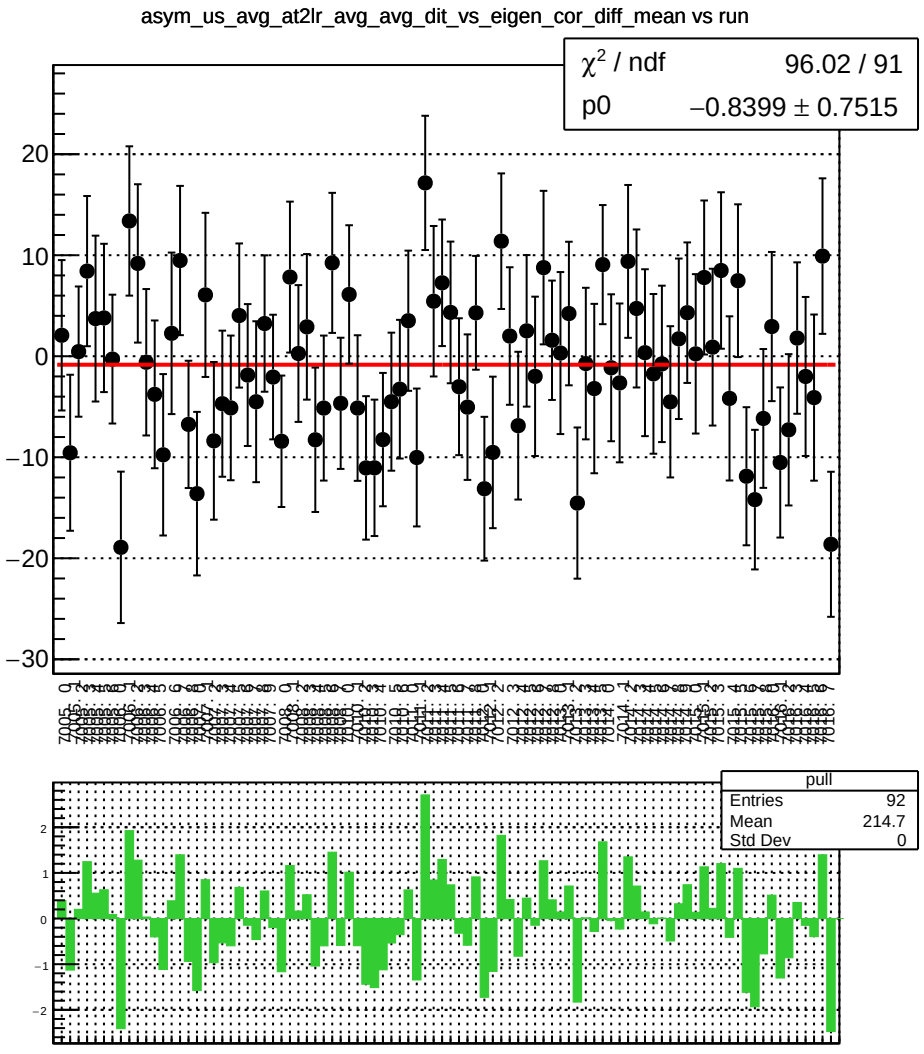

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 9853 / 91
p0 1.052e+04 ± 8.053
12500
12000
11500
11000
10500
10000
9500
9000

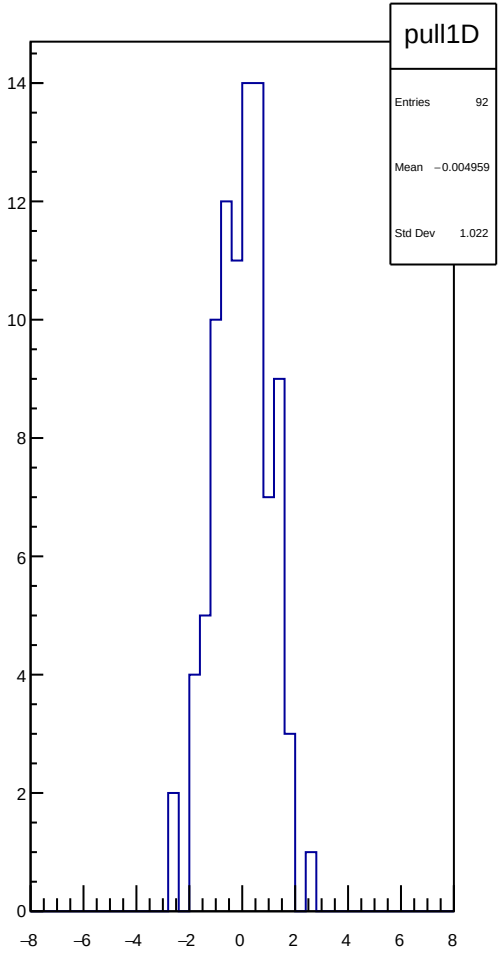

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 98.67 / 91
p0 2.983e−13 ± 2.564e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean 38.34
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.1116
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

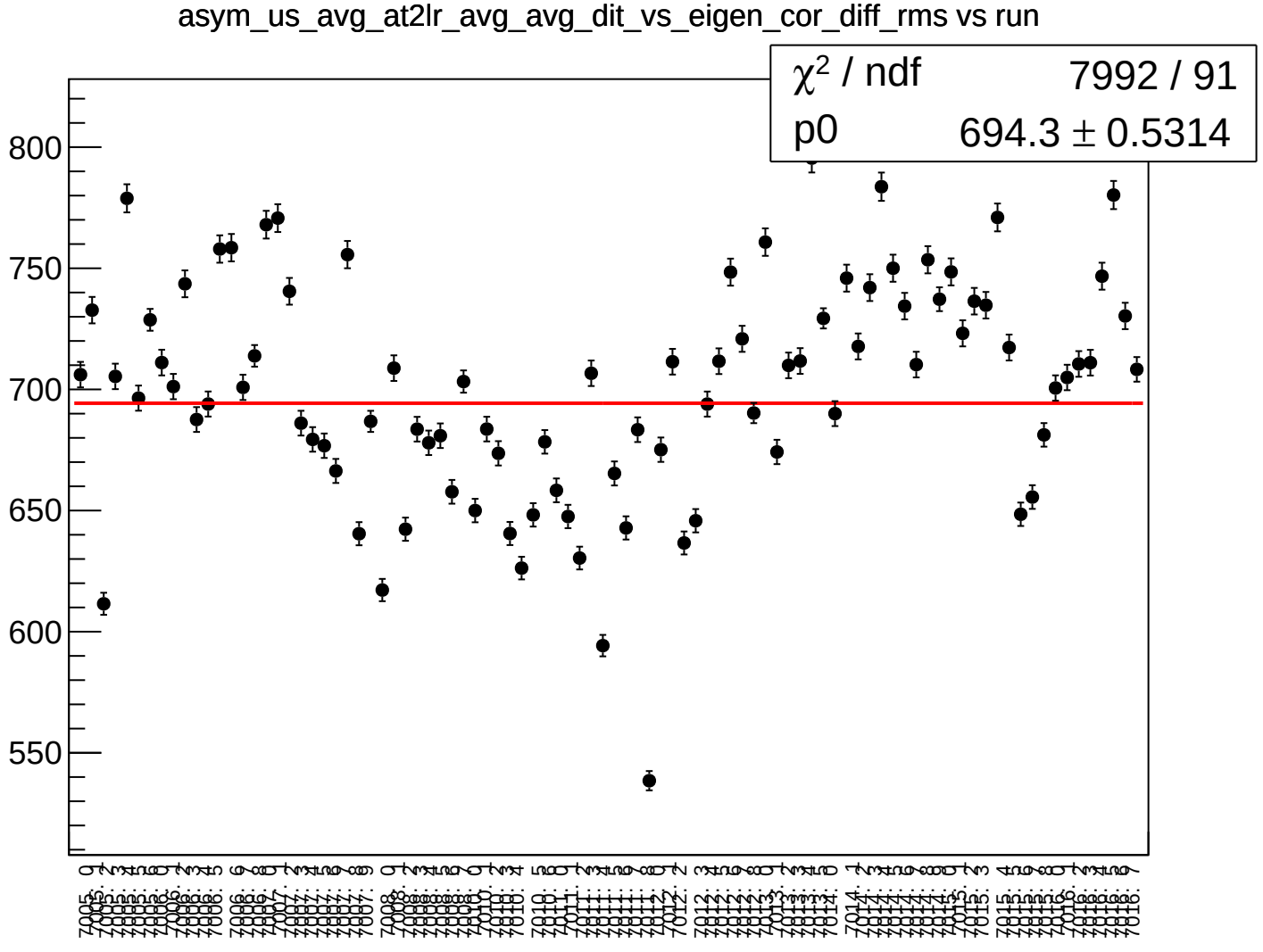

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.151e+06 / 91
p0 1.362e−10 ± 1.813e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

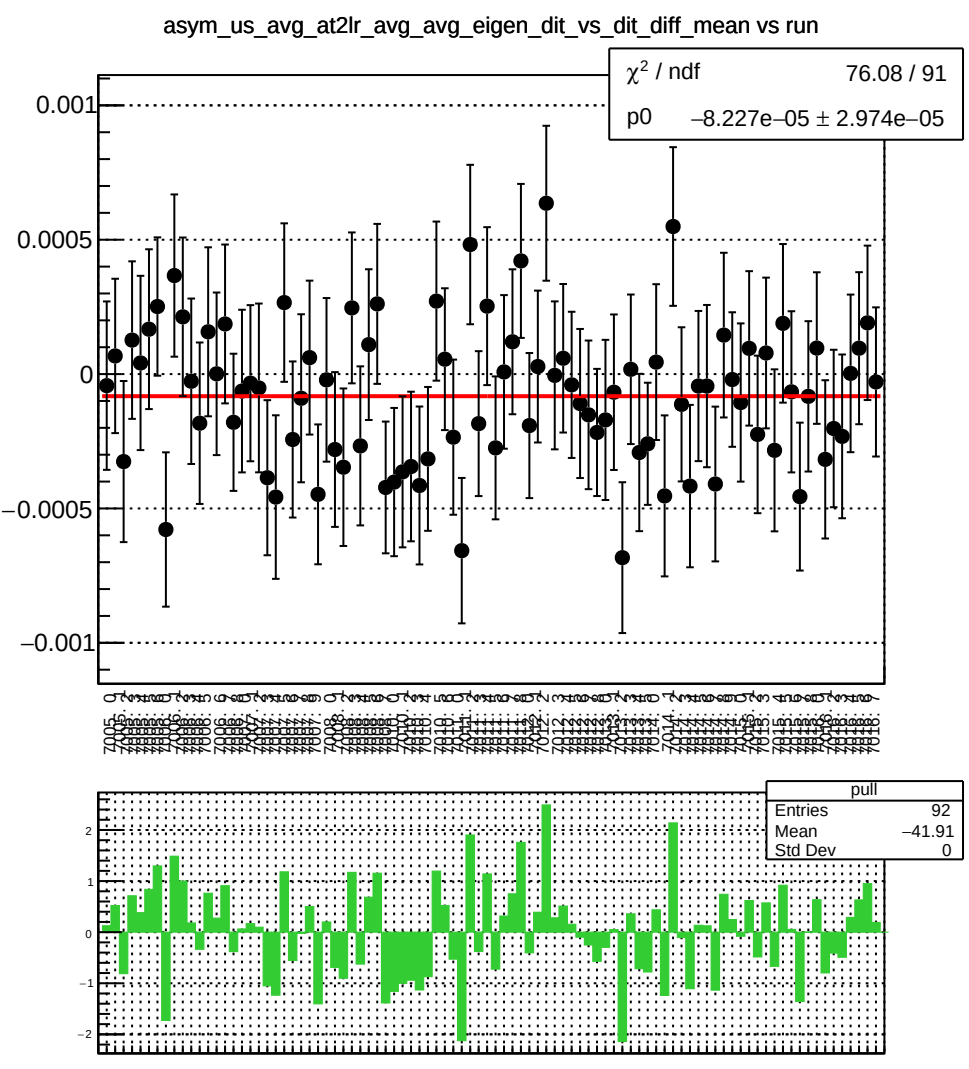

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 96.02 / 91
p0 −0.8399 ± 0.7515
pull
Entries 92
Mean 214.7
Std Dev 0
pull1D
Entries 92
Mean −0.004959
Std Dev 1.022

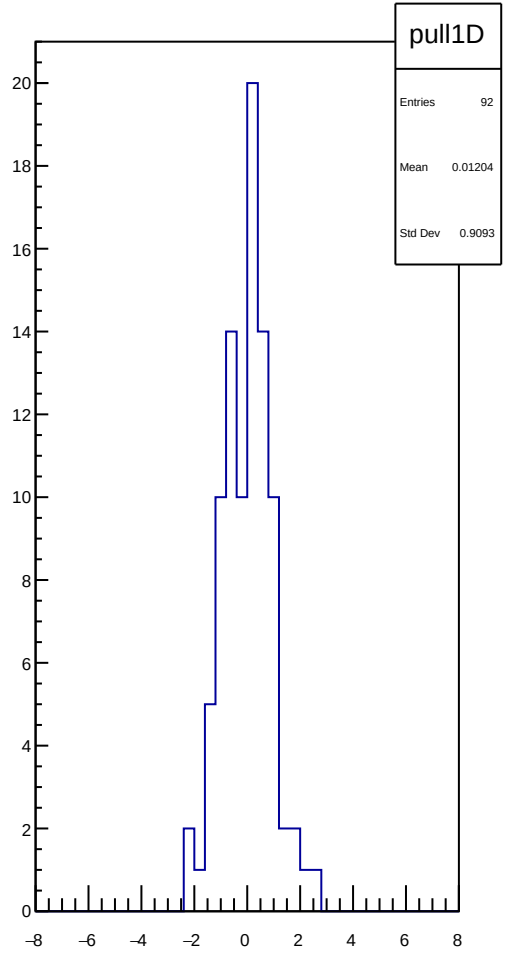

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7992 / 91
p0 694.3 ± 0.5314
800
750
700
650
600
550

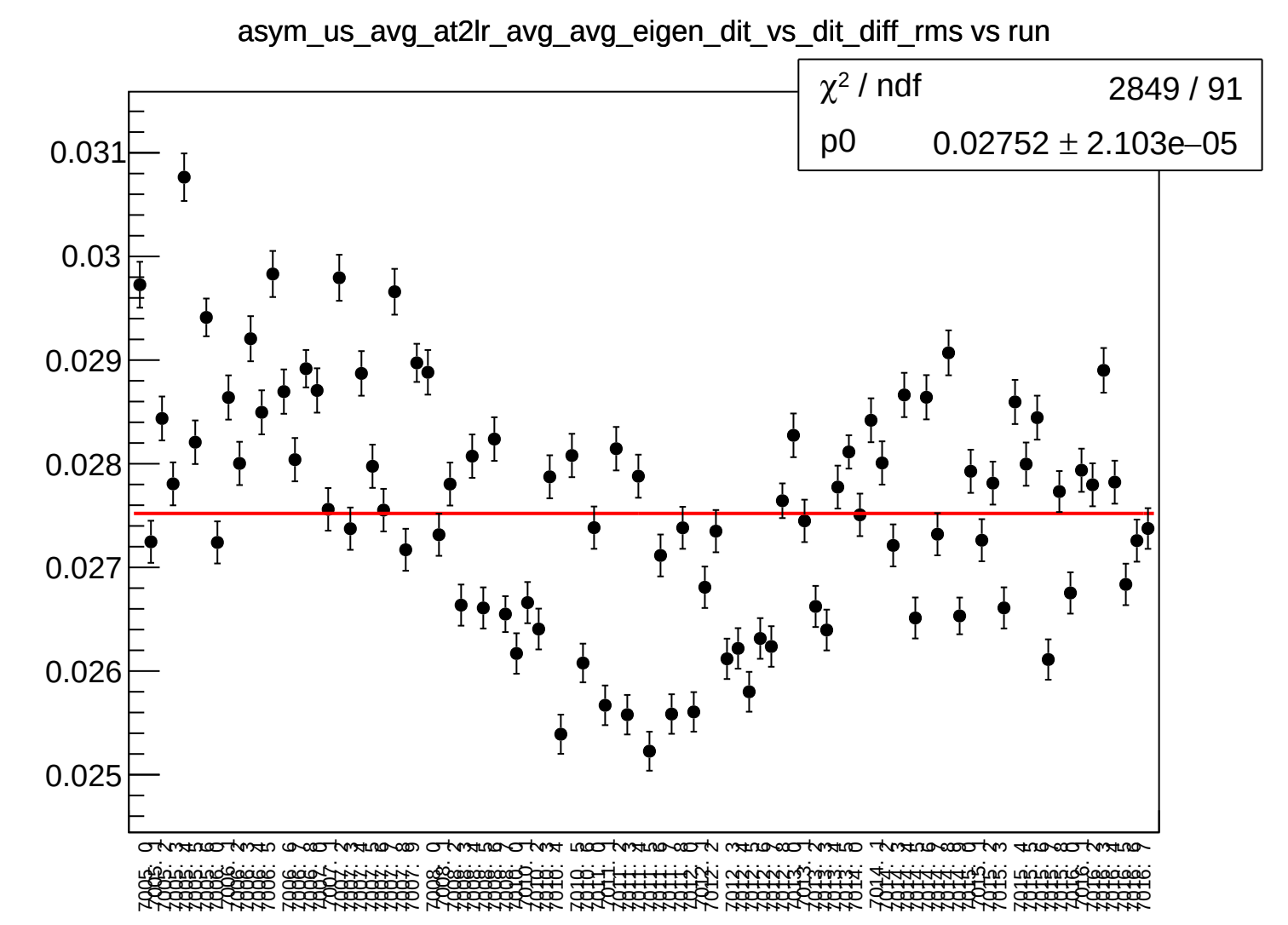

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.02 / 91
p0 −0.8399 ± 0.7515
pull
Entries 92
Mean 214.7
Std Dev 0

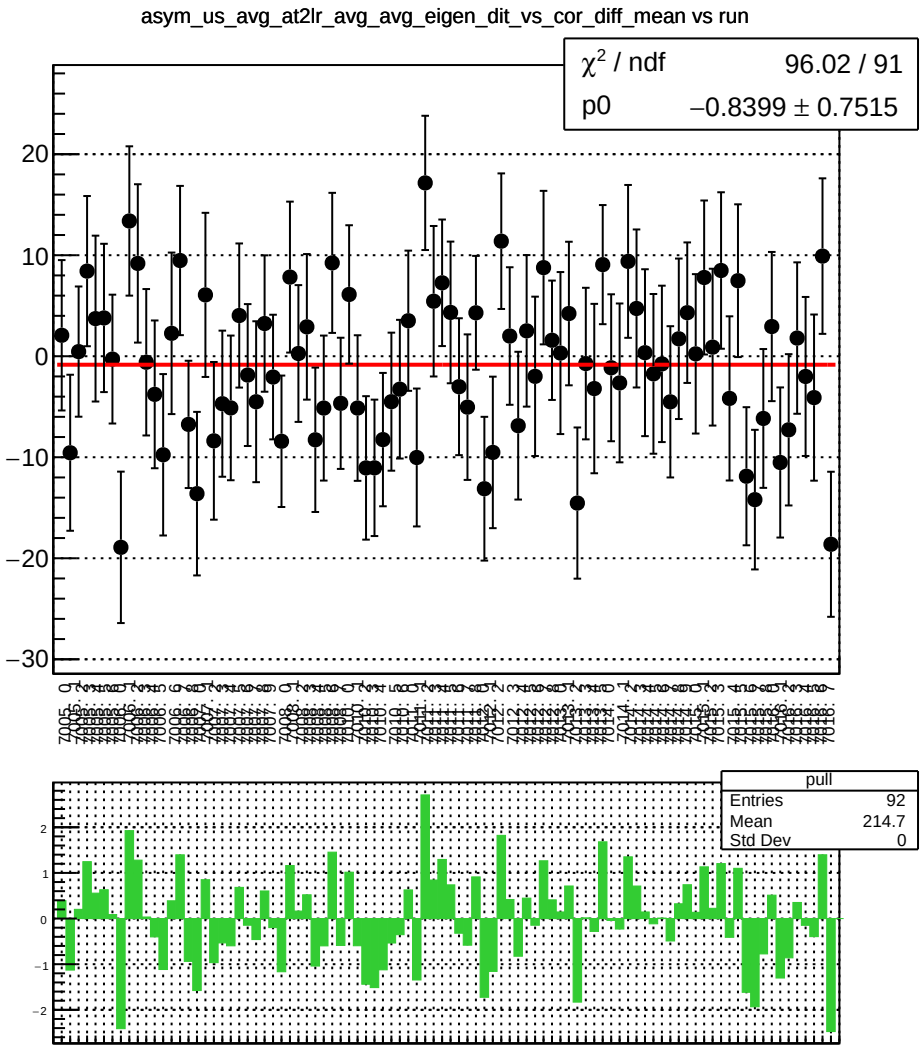

pull1D
Entries 92
Mean −0.004959
Std Dev 1.022

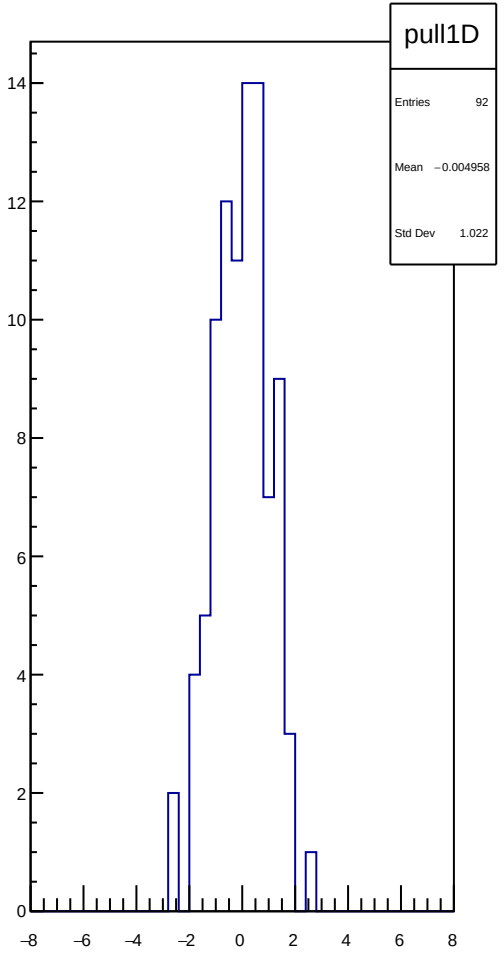

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7992 / 91
p0 694.3 ± 0.5314
800
750
700
650
600
550

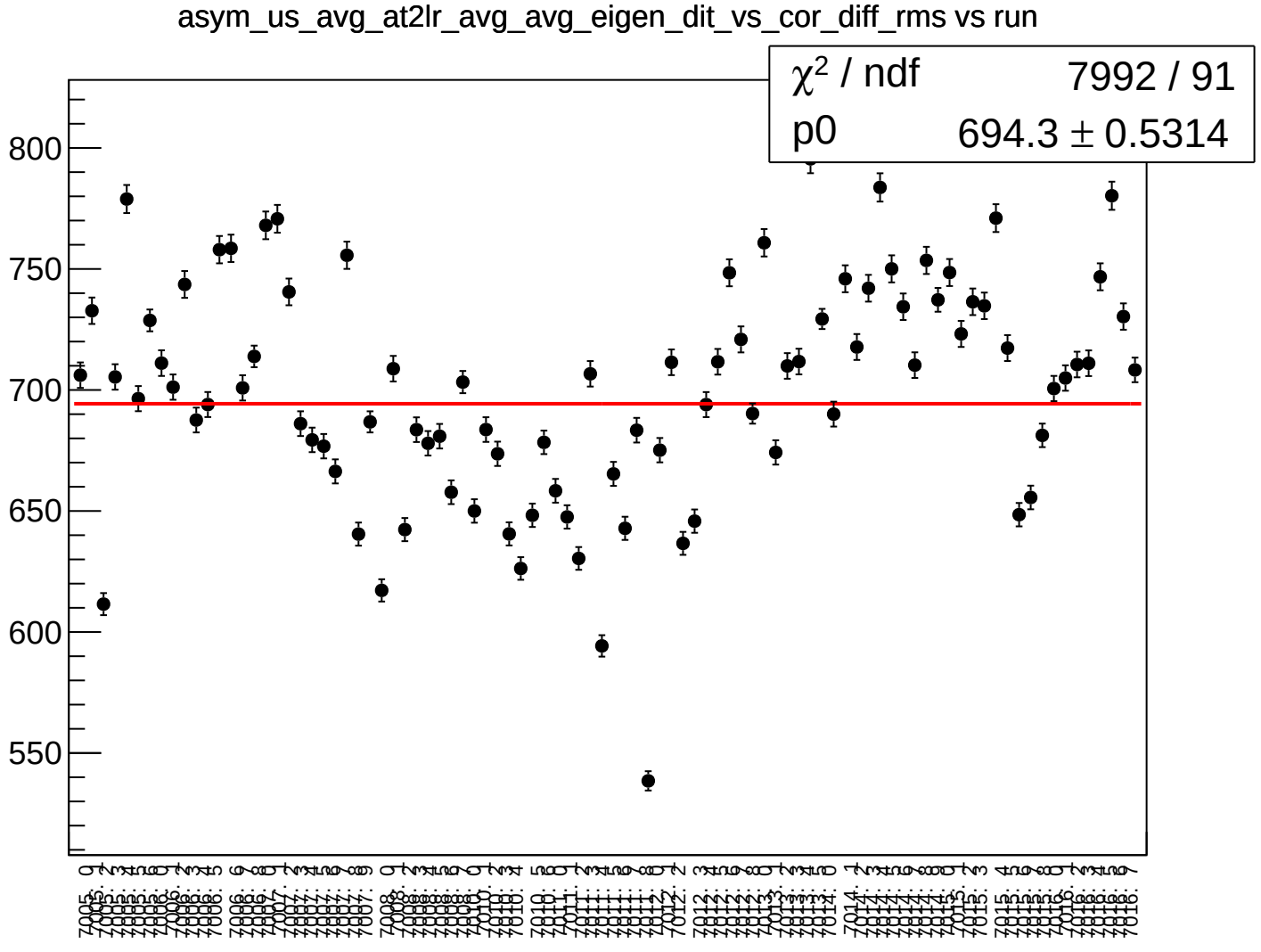

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.08 / 91
p0 −8.227e−05 ± 2.974e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −41.91
Std Dev 0
2
1
0
−1
−2

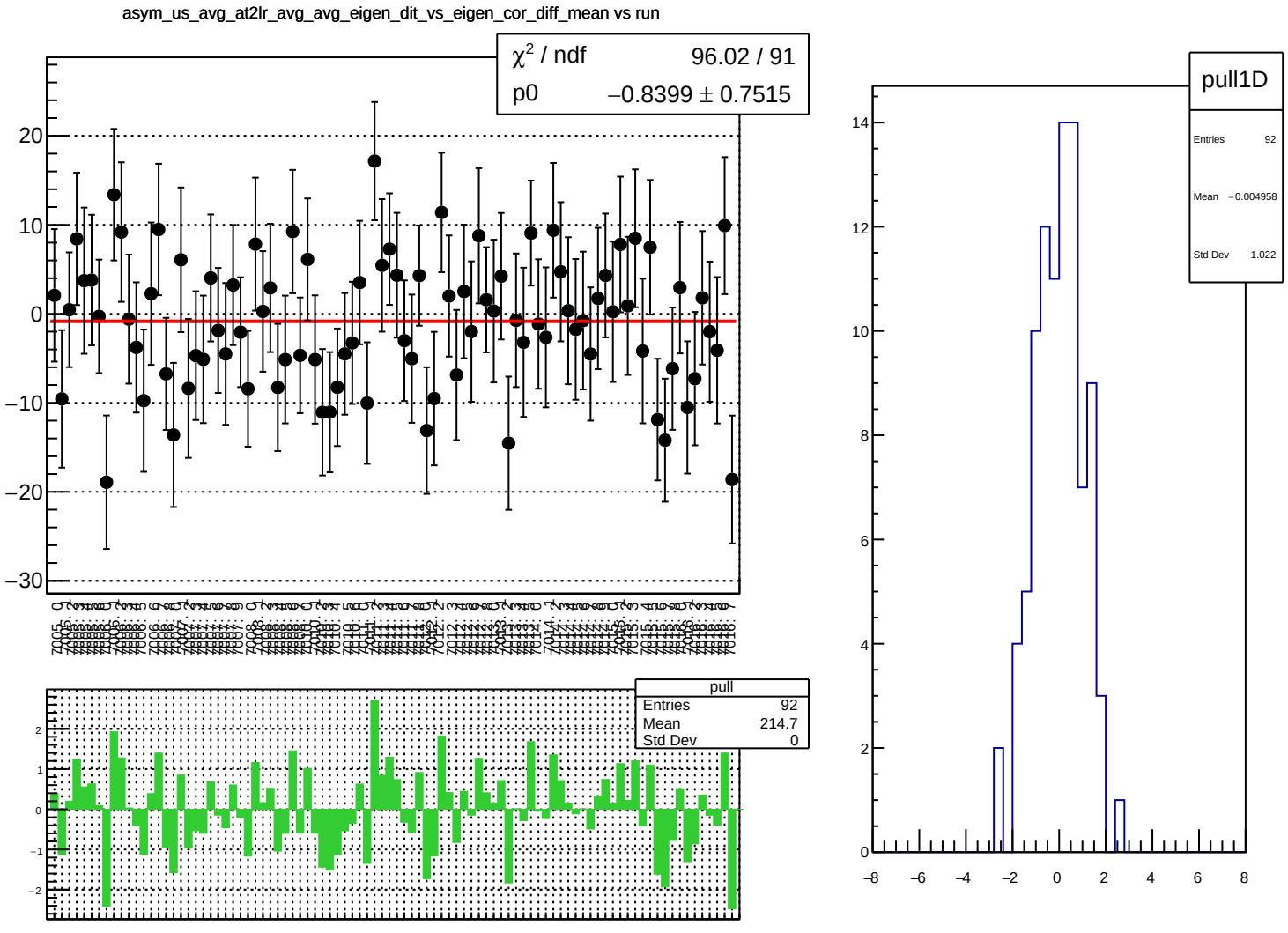

pull1D
Entries 92
Mean 0.01204
Std Dev 0.9093
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

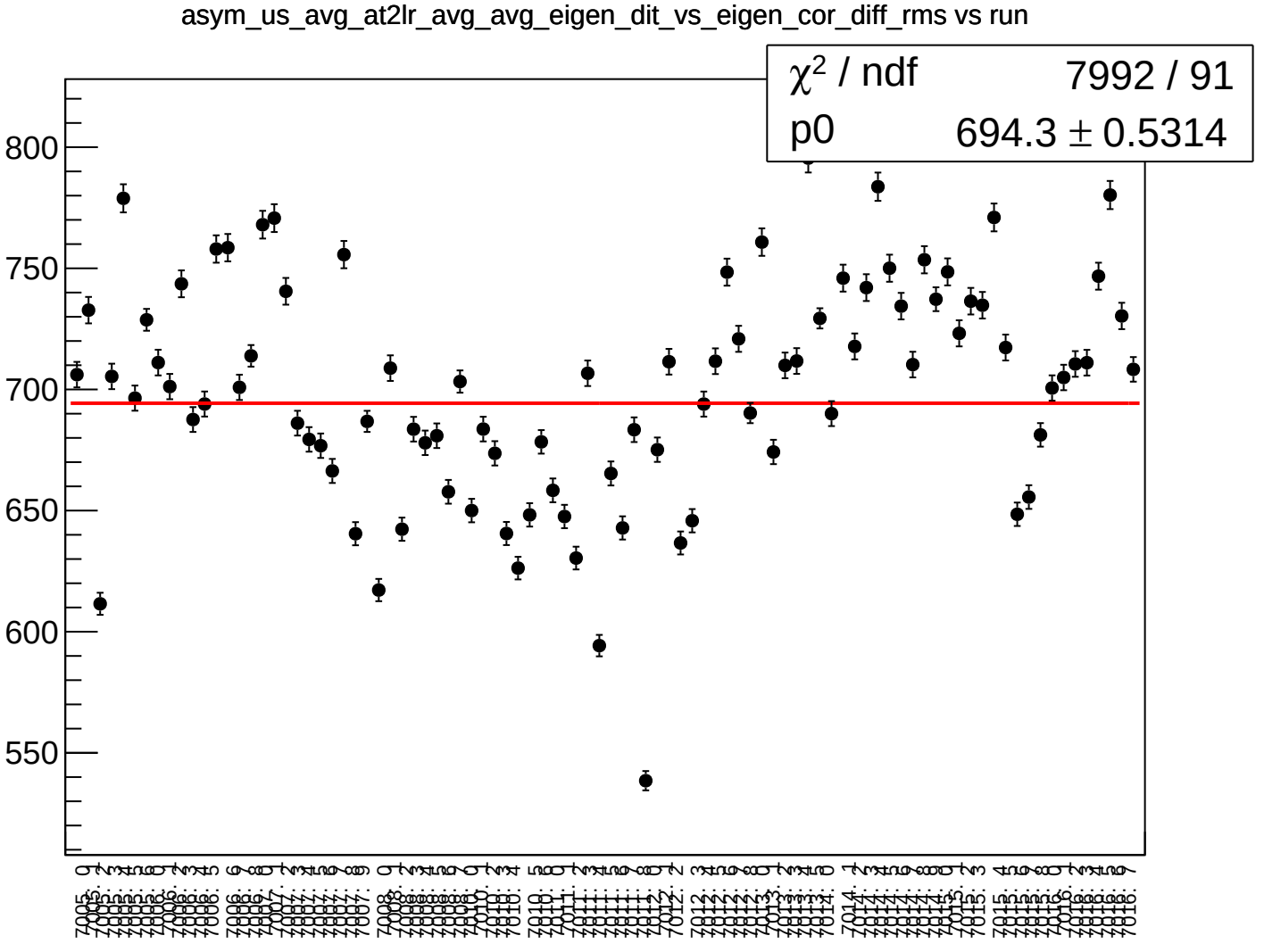

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2849 / 91
p0 0.02752 ± 2.103e−05
0.031
0.03
0.029
0.028
0.027
0.026
0.025

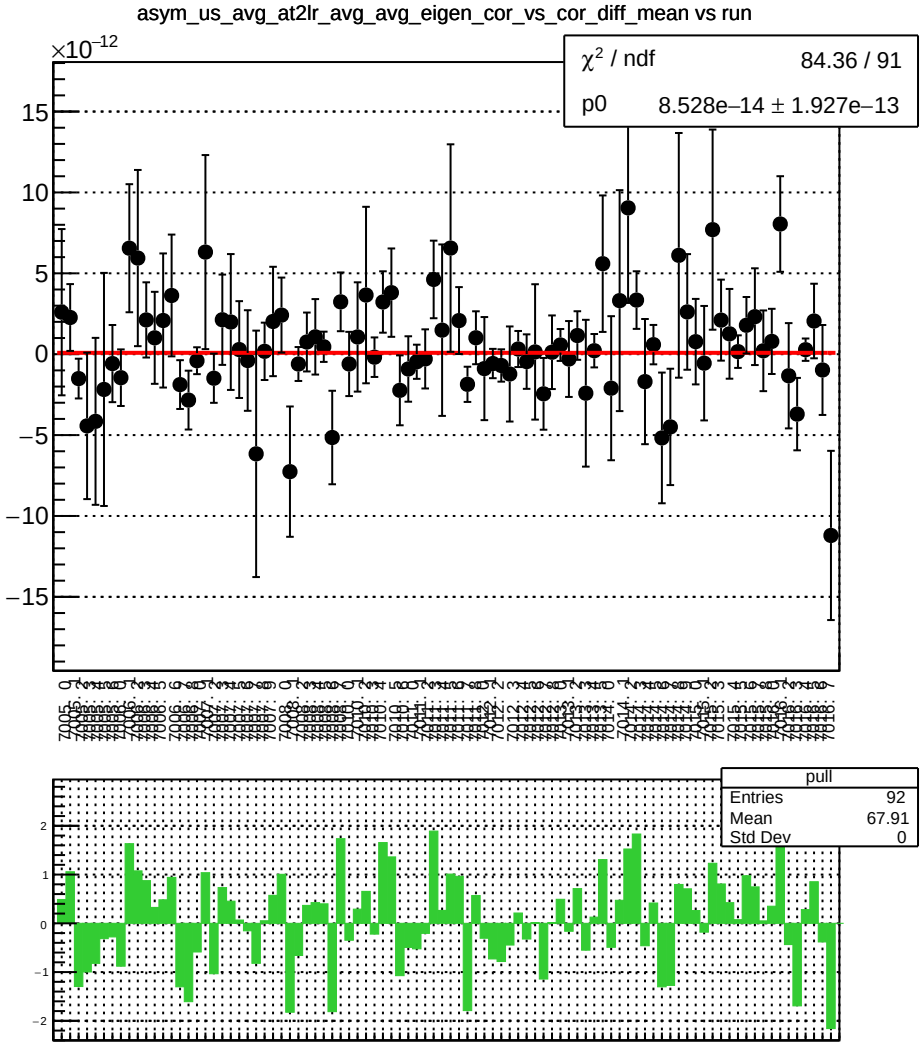

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.02 / 91
p0 −0.8399 ± 0.7515
pull
Entries 92
Mean 214.7
Std Dev 0

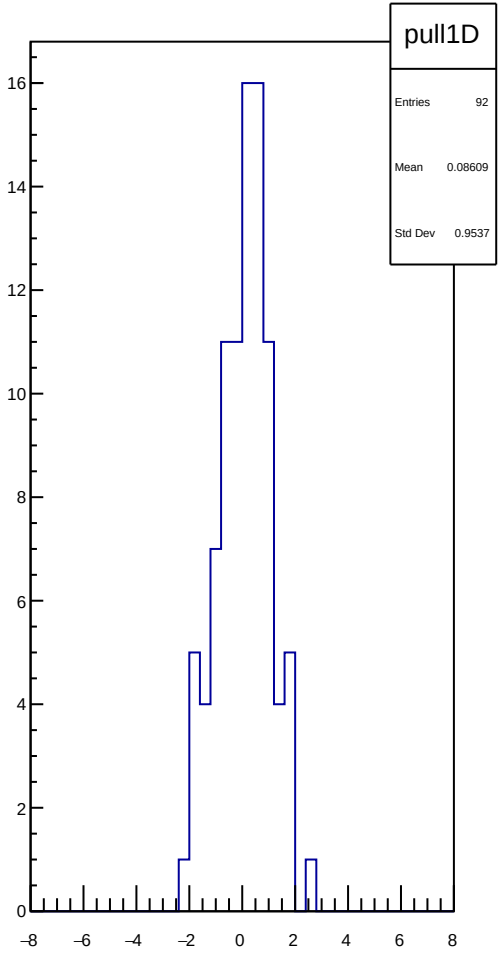

pull1D
Entries 92
Mean −0.004958
Std Dev 1.022

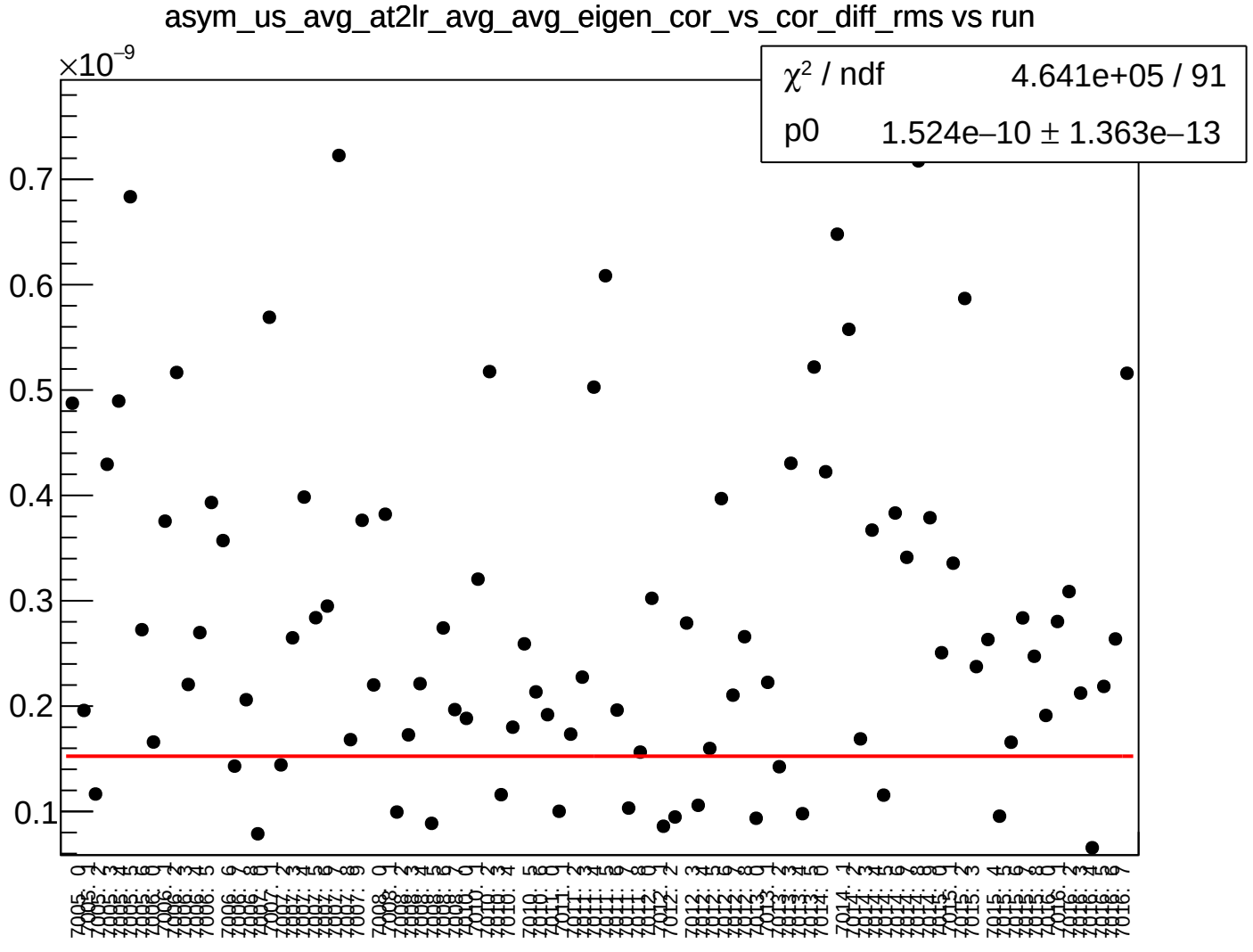

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7992 / 91
p0 694.3 ± 0.5314
800
750
700
650
600
550

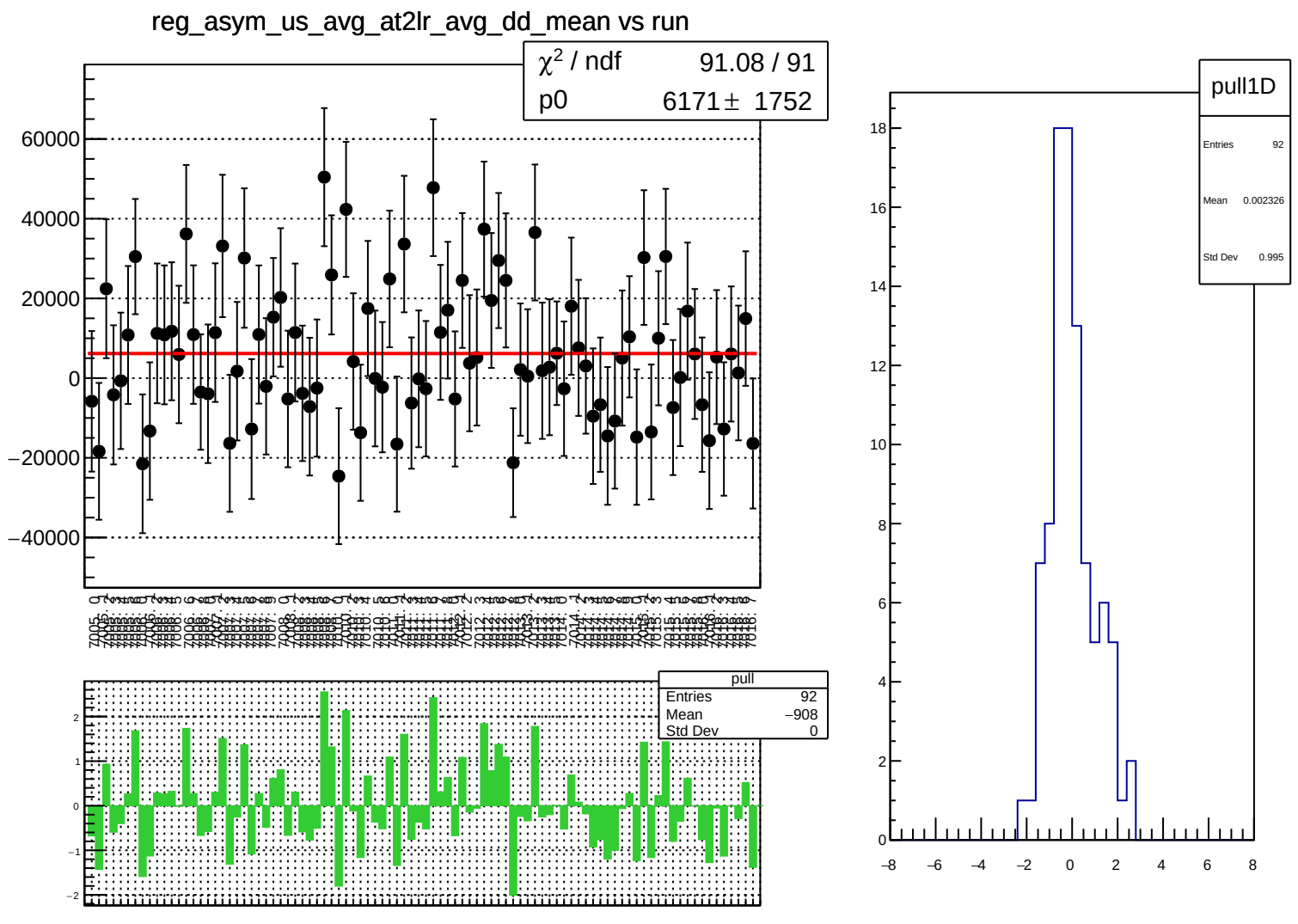

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.02 / 91
p0 −0.8399 ± 0.7515
pull
Entries 92
Mean 214.7
Std Dev 0
pull1D
Entries 92
Mean −0.004958
Std Dev 1.022

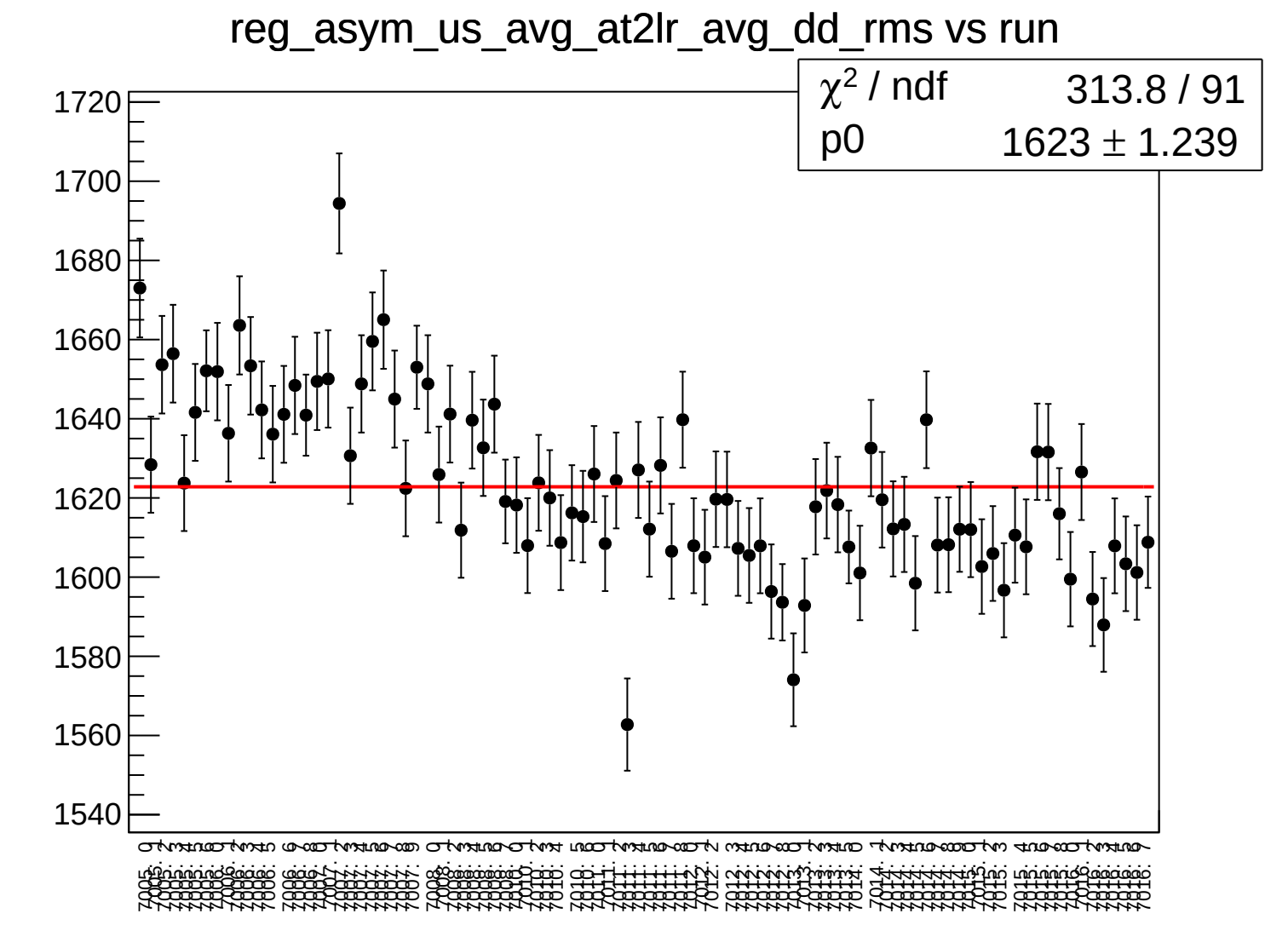

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7992 / 91
p0 694.3 ± 0.5314
800
750
700
650
600
550

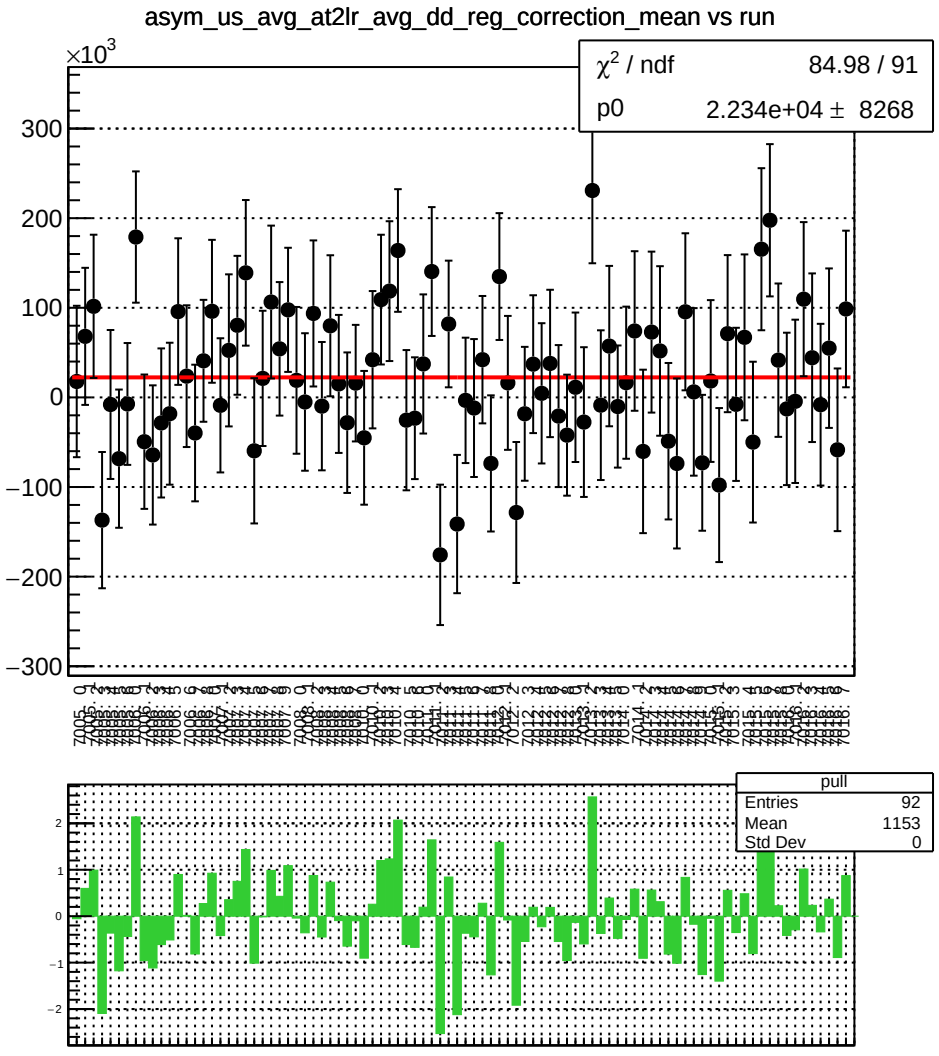

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.36 / 91
p0 8.528e−14 ± 1.927e−13
pull
Entries 92
Mean 67.91
Std Dev 0

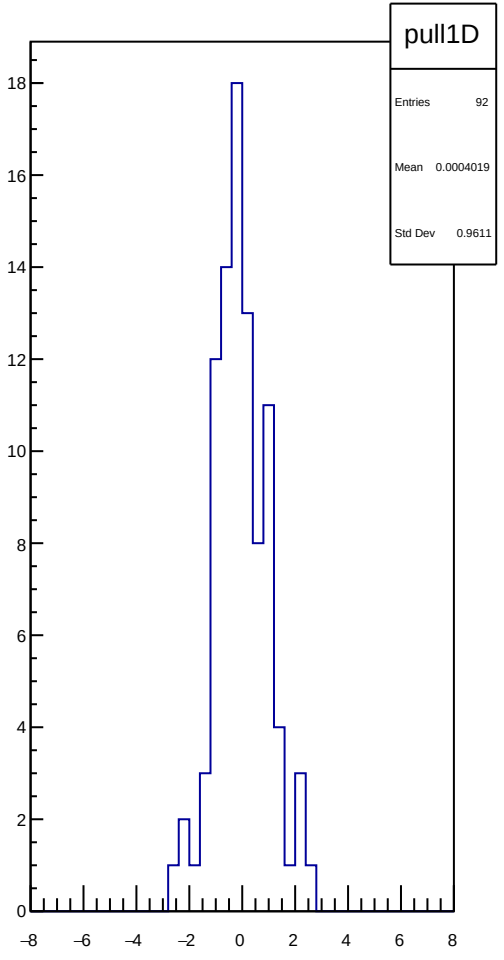

pull1D
Entries 92
Mean 0.08609
Std Dev 0.9537

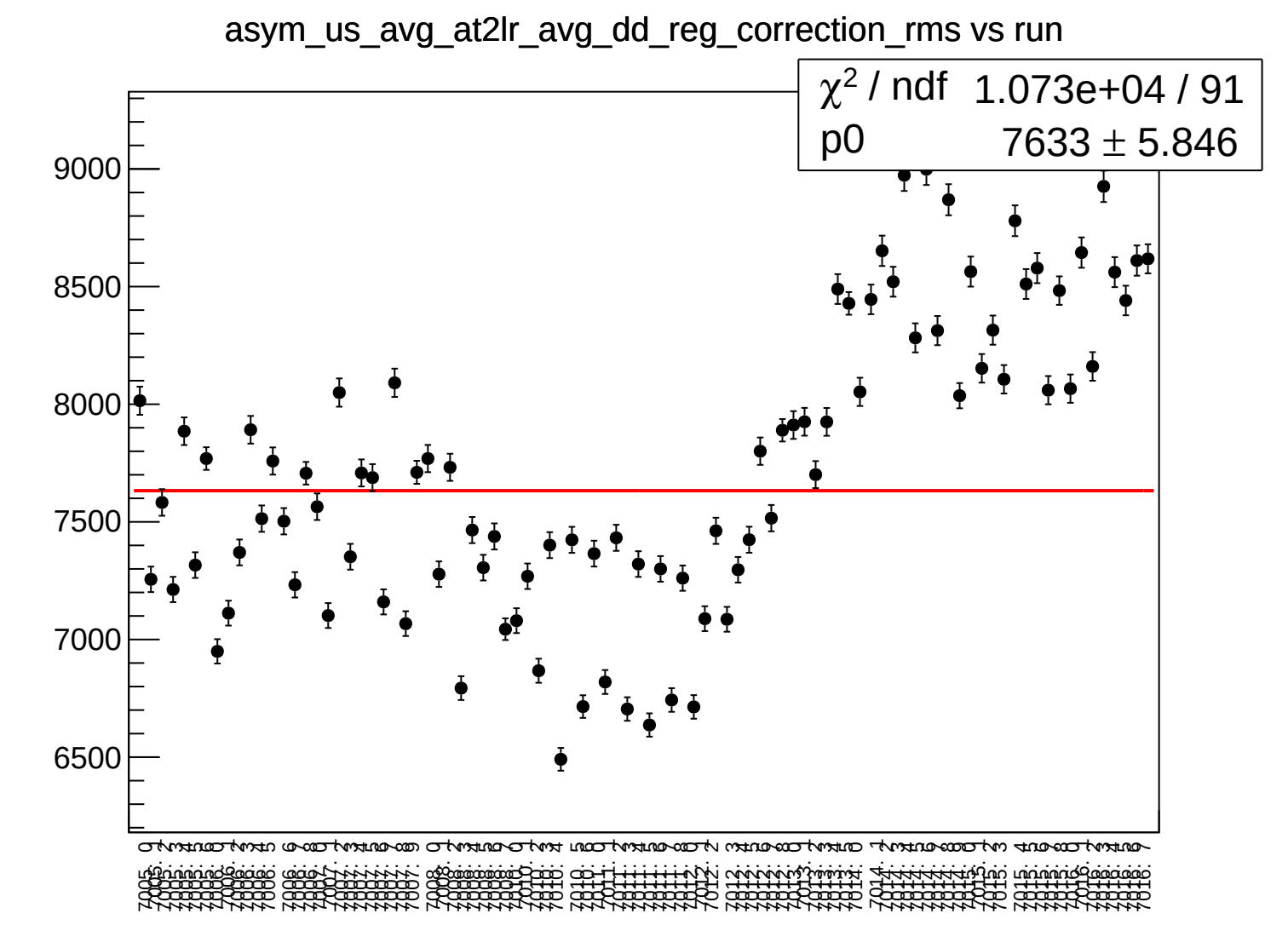

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.641e+05 / 91
p0 1.524e−10 ± 1.363e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

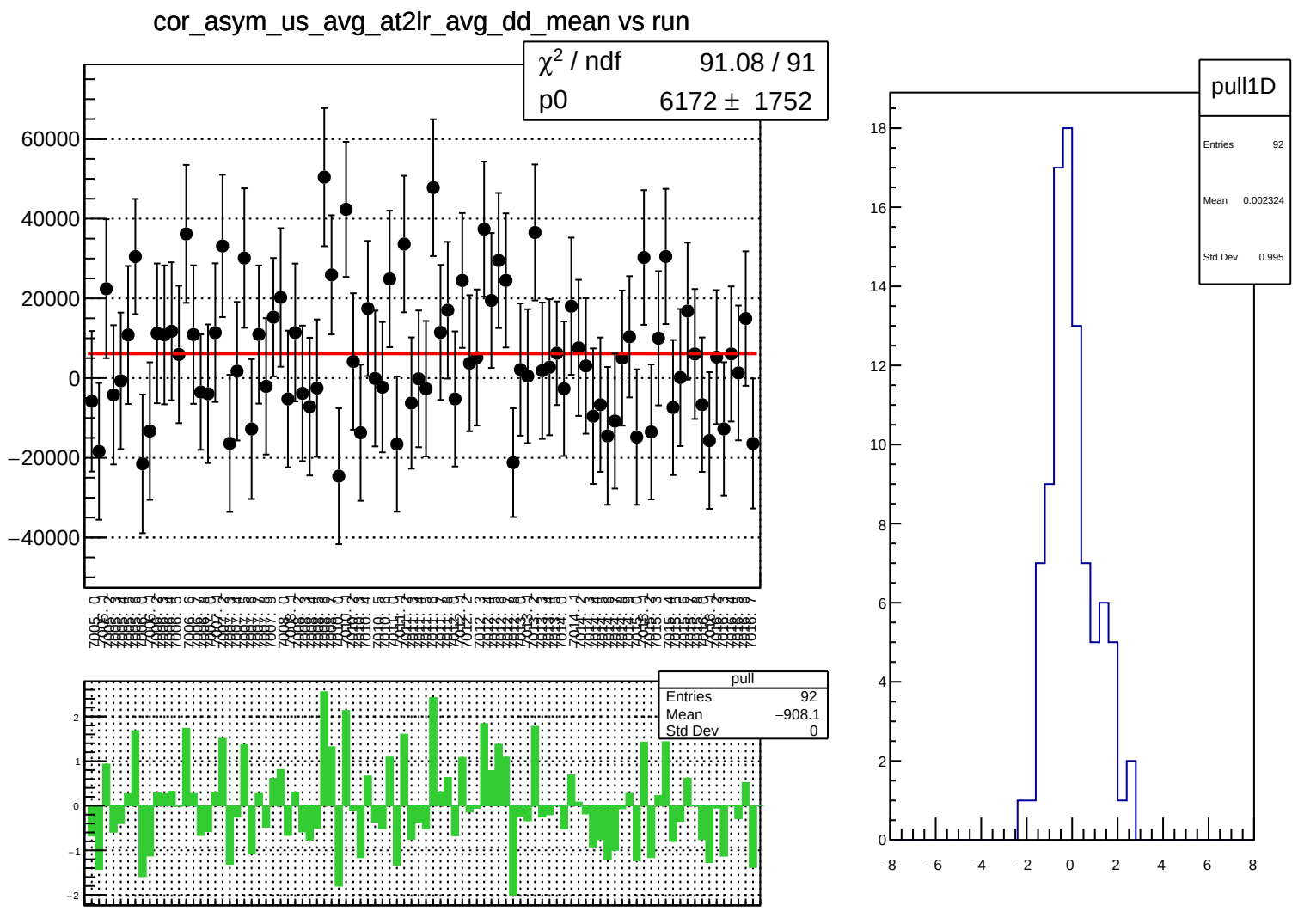

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 91.08 / 91
p0 6171 ± 1752
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −908
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002326
Std Dev 0.995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

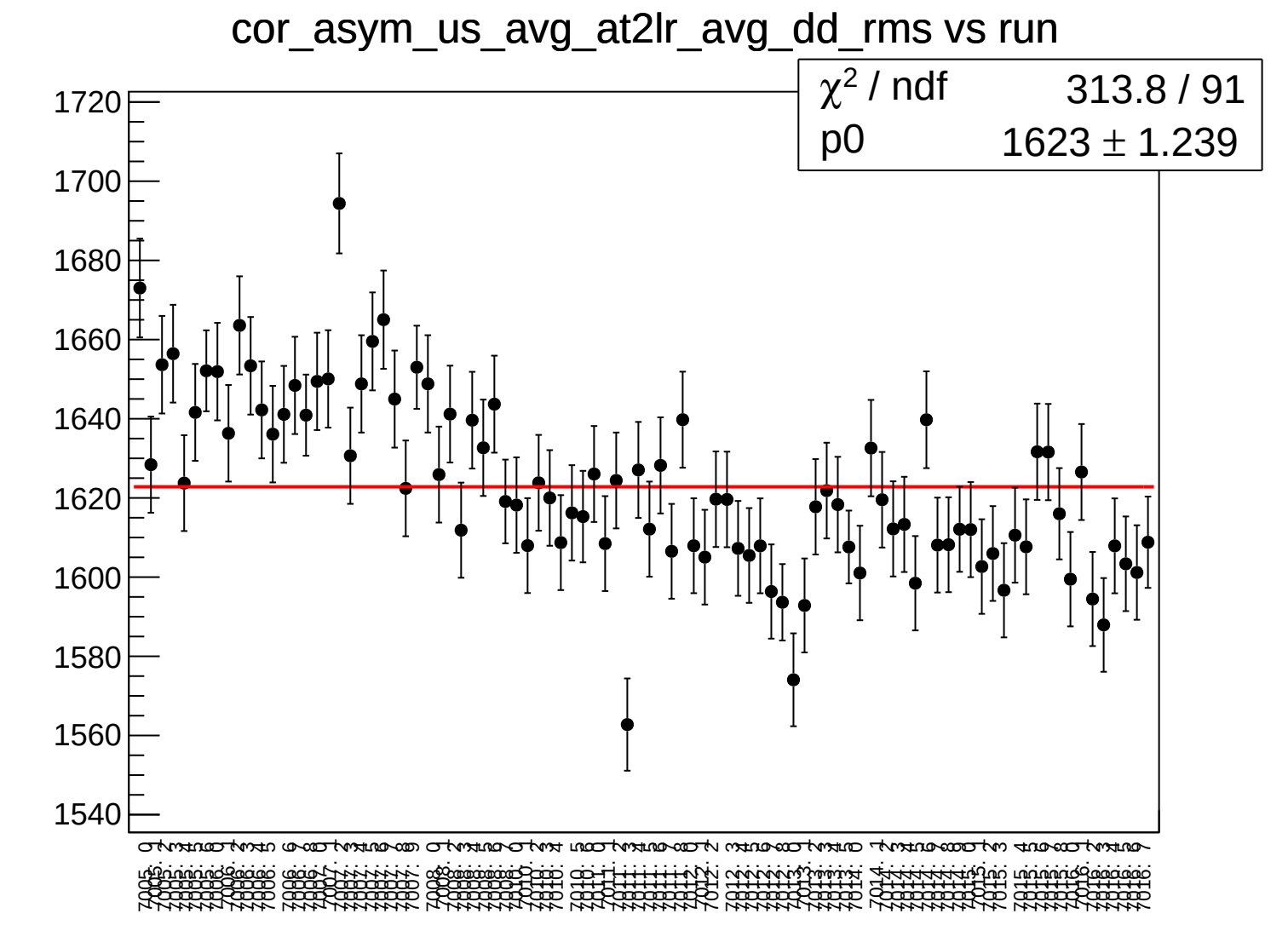

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 313.8 / 91
p0 1623 ± 1.239
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

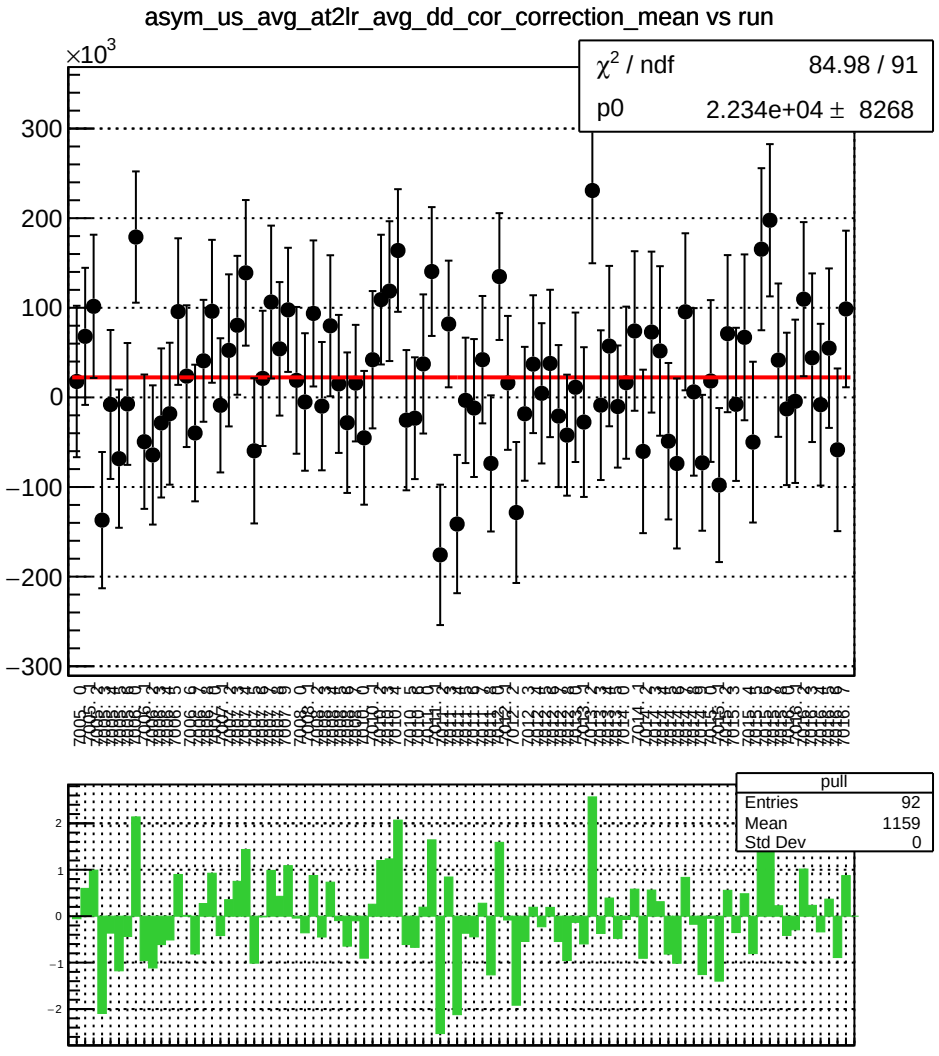

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 84.98 / 91
p0 2.234e+04 ± 8268
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean 1153
Std Dev 0
2
1
0
−1
−2

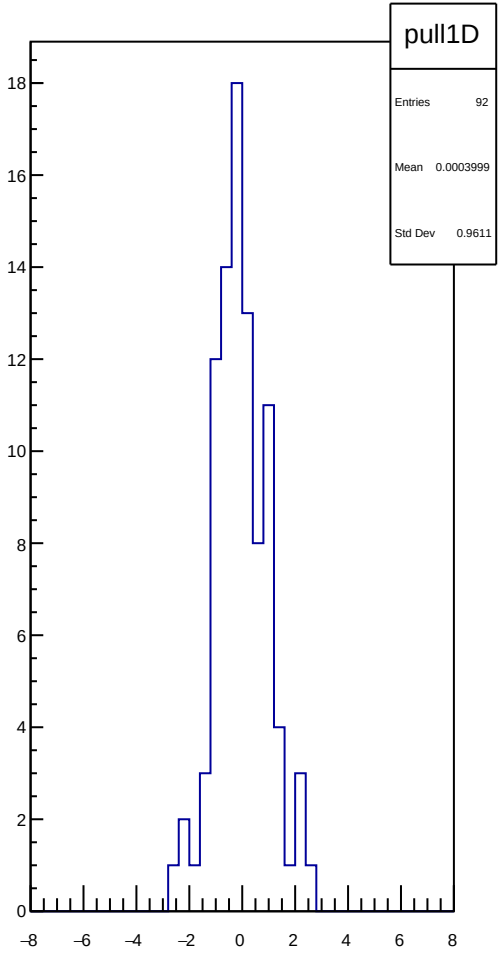

pull1D
Entries 92
Mean 0.0004019
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

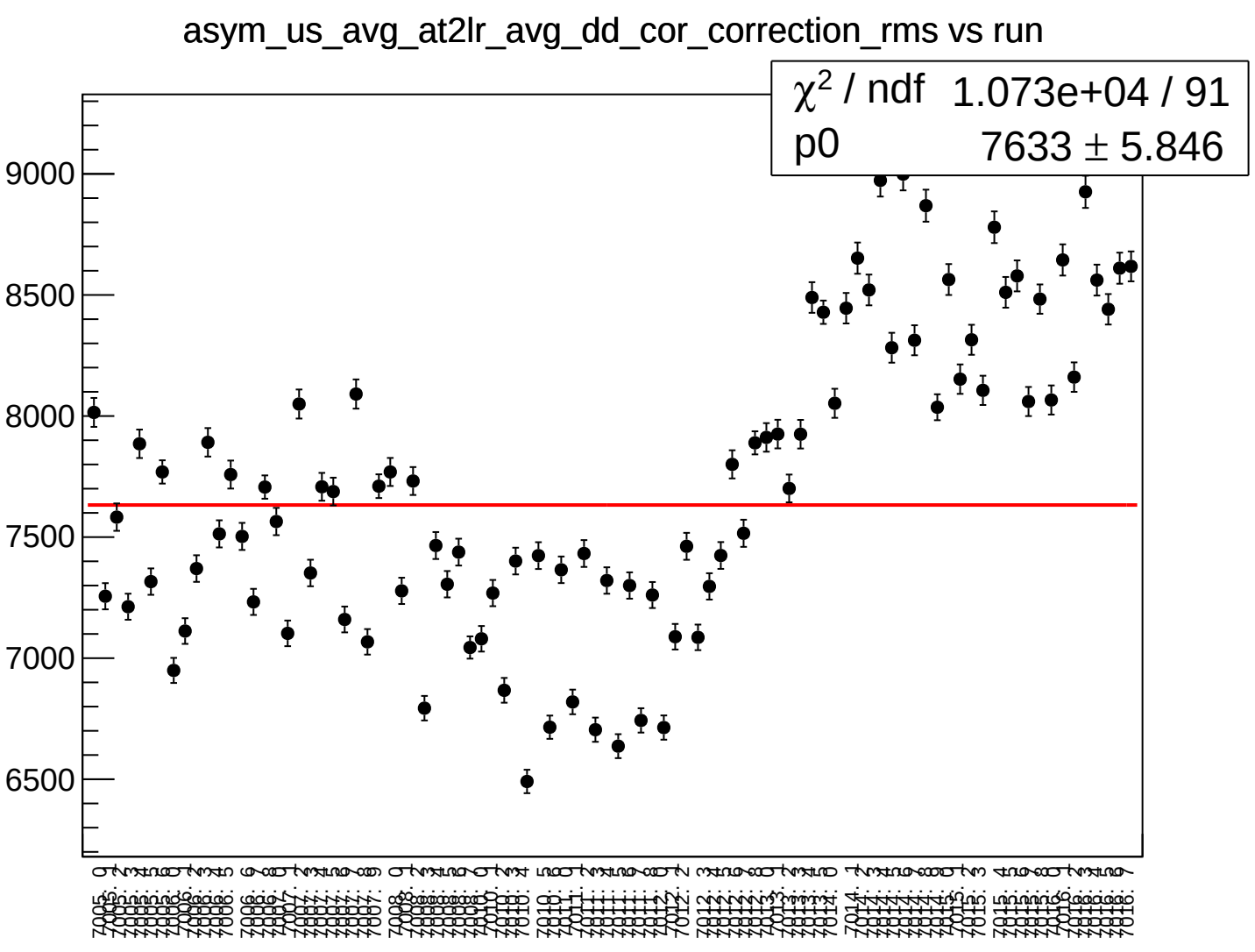

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.073e+04 / 91
p0 7633 ± 5.846
9000
8500
8000
7500
7000
6500

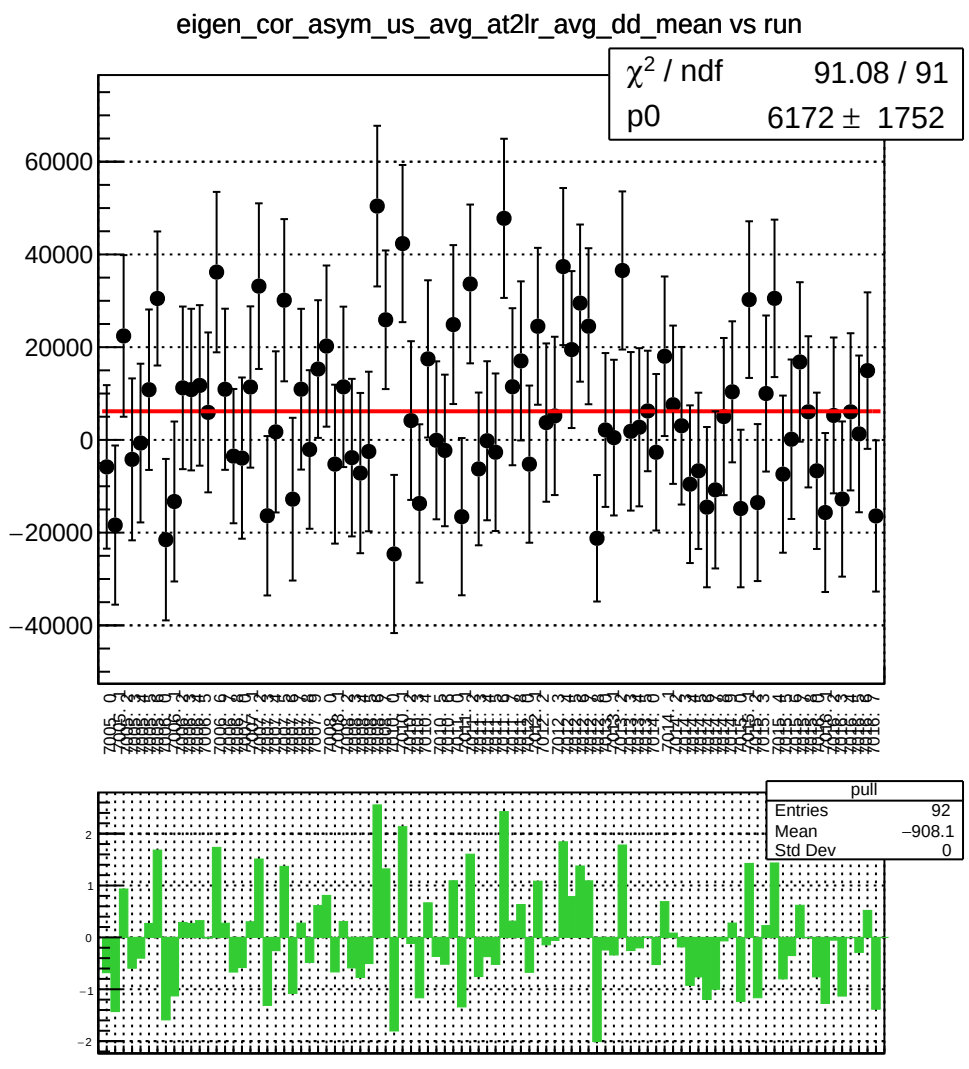

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 91.08 / 91
p0 6172 ± 1752
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −908.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002324
Std Dev 0.995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

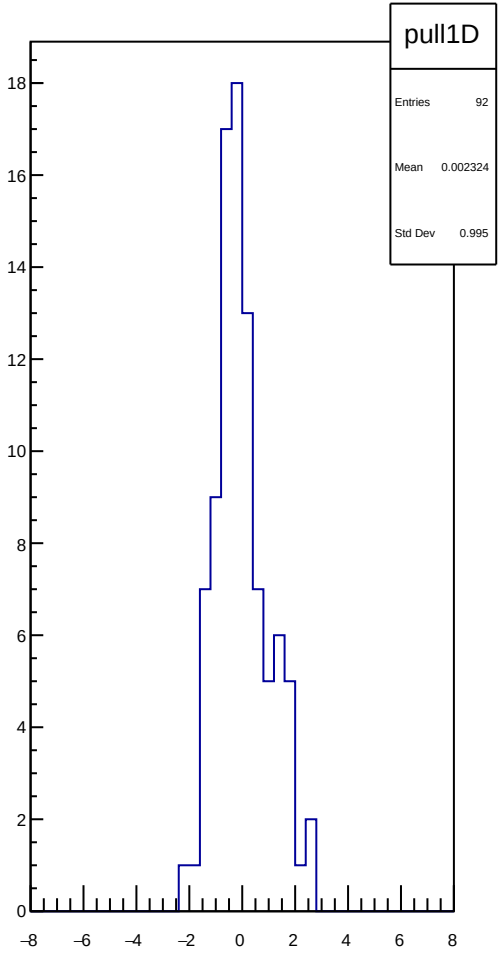

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 313.8 / 91
p0 1623 ± 1.239
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

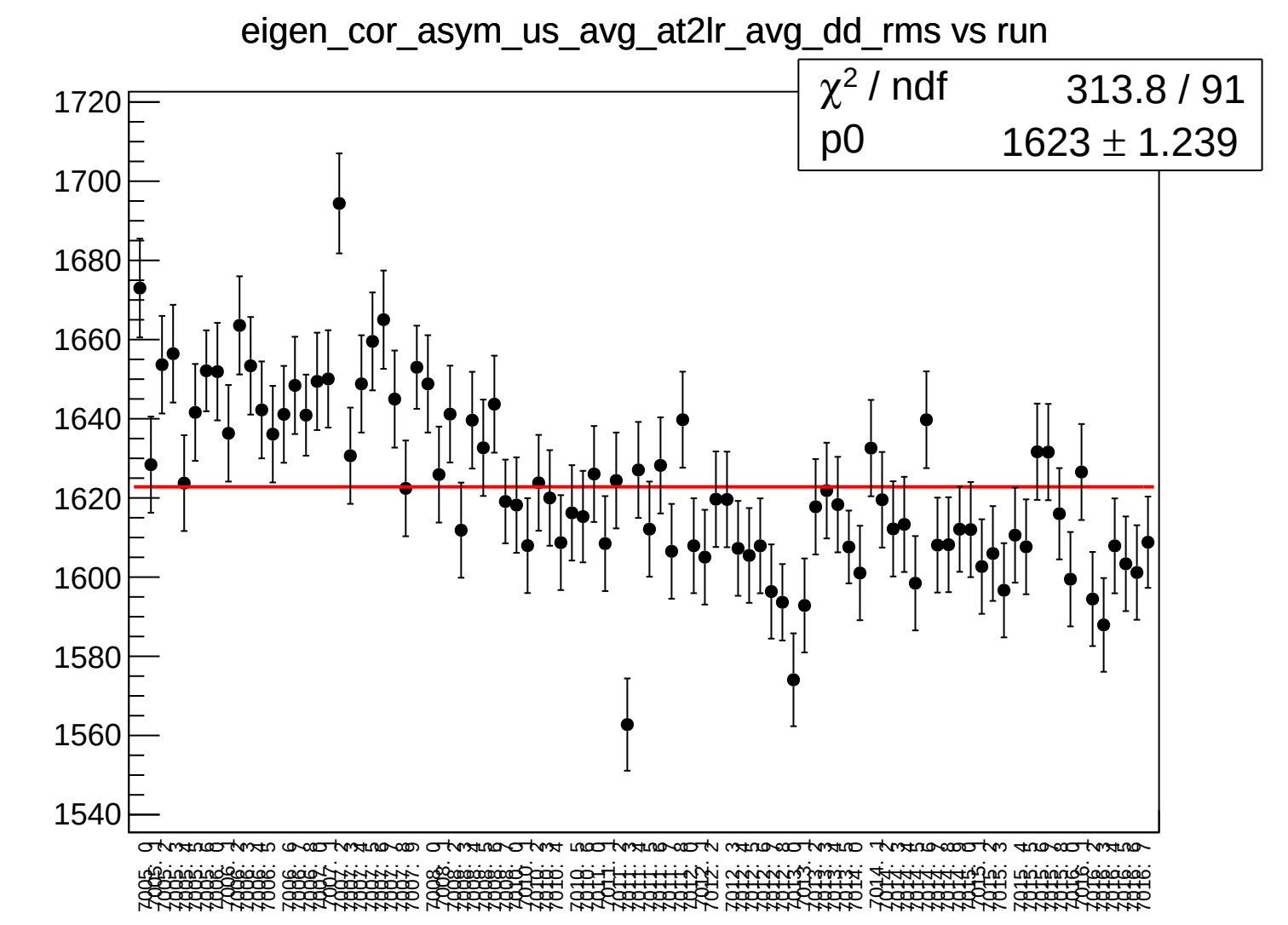

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 84.98 / 91
p0 2.234e+04 ± 8268
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean 1159
Std Dev 0
2
1
0
−1
−2

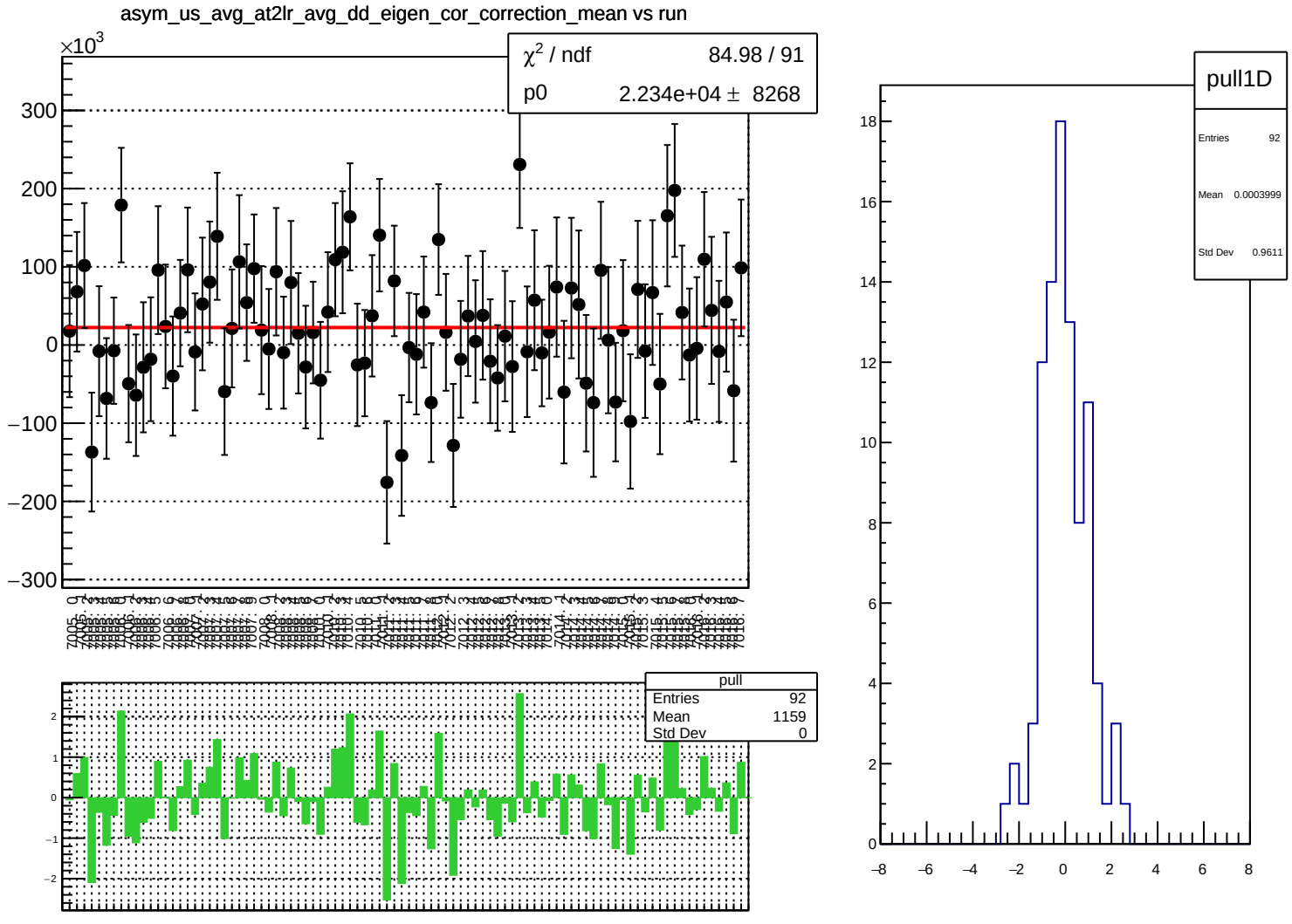

pull1D
Entries 92
Mean 0.0003999
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

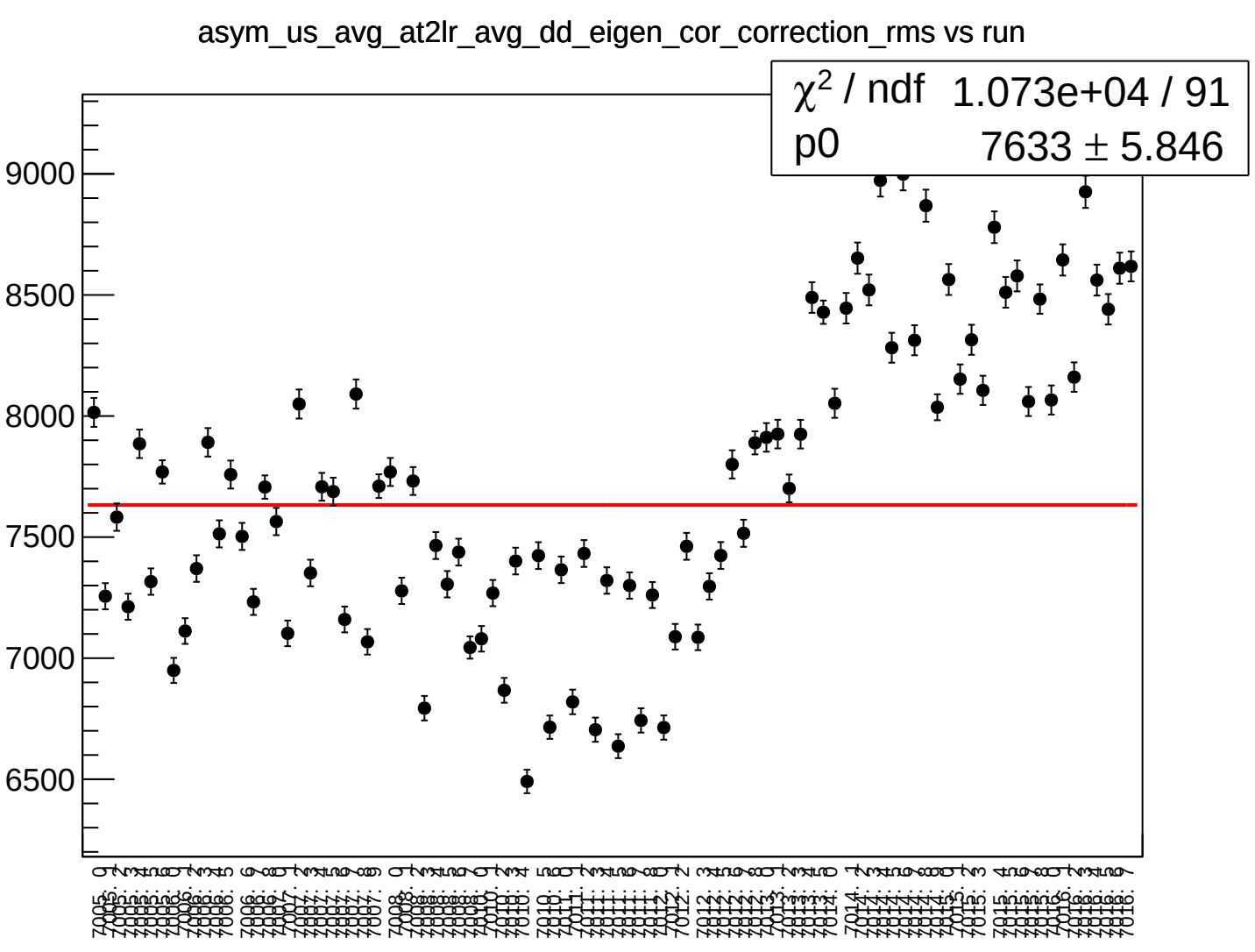

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.073e+04 / 91
p0 7633 ± 5.846
9000
8500
8000
7500
7000
6500

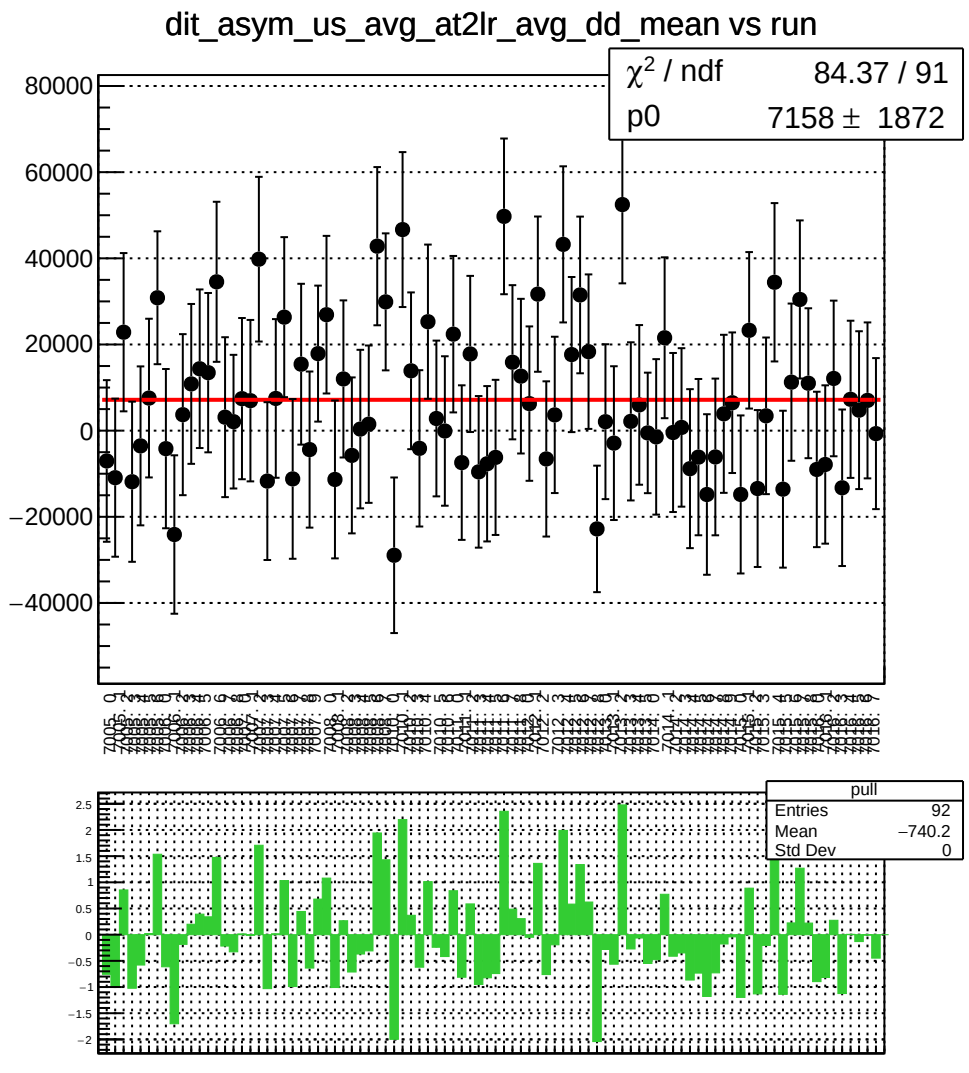

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 91.08 / 91
p0 6172 ± 1752
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −908.1
Std Dev 0
2
1
0
−1
−2

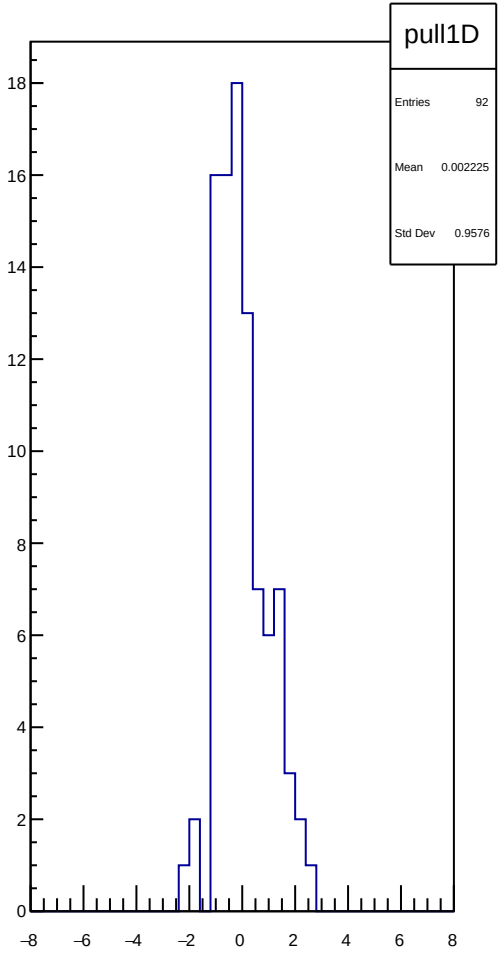

pull1D
Entries 92
Mean 0.002324
Std Dev 0.995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

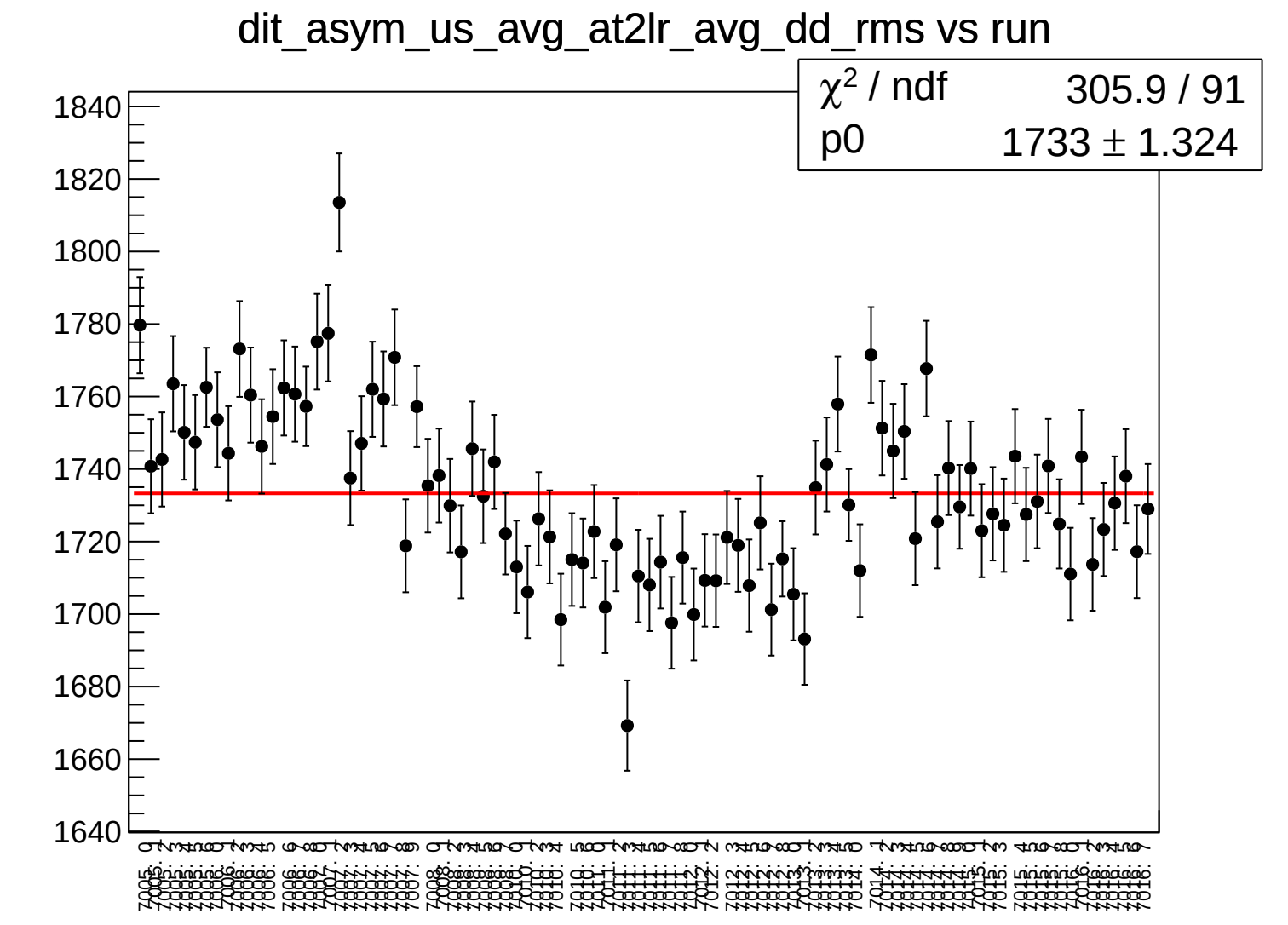

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 313.8 / 91
p0 1623 ± 1.239
1720
1700
1680
1660
1640
1620
1600
1580
1560
1540

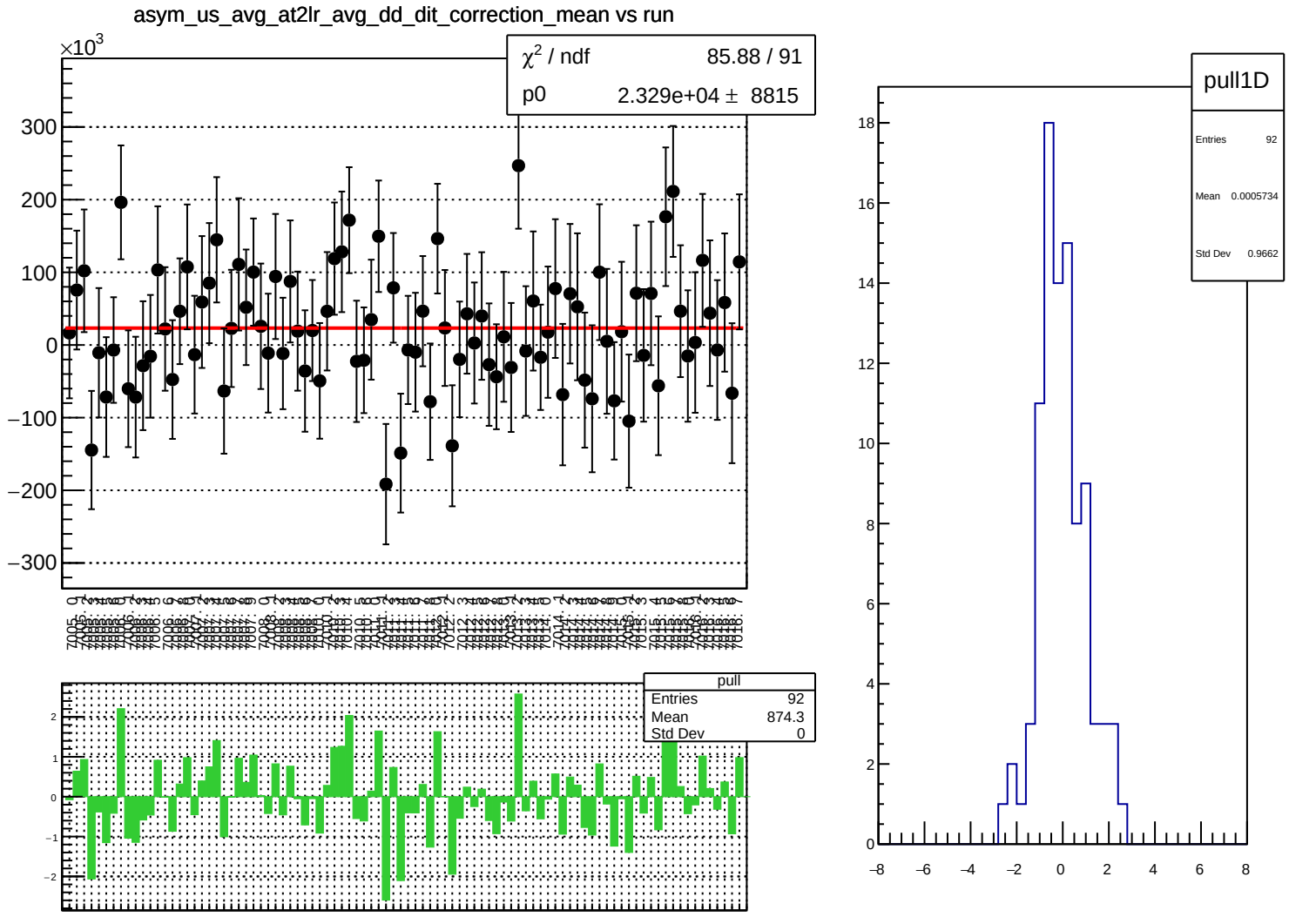

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.98 / 91
p0 2.234e+04 ± 8268
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean 1159
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0003999
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

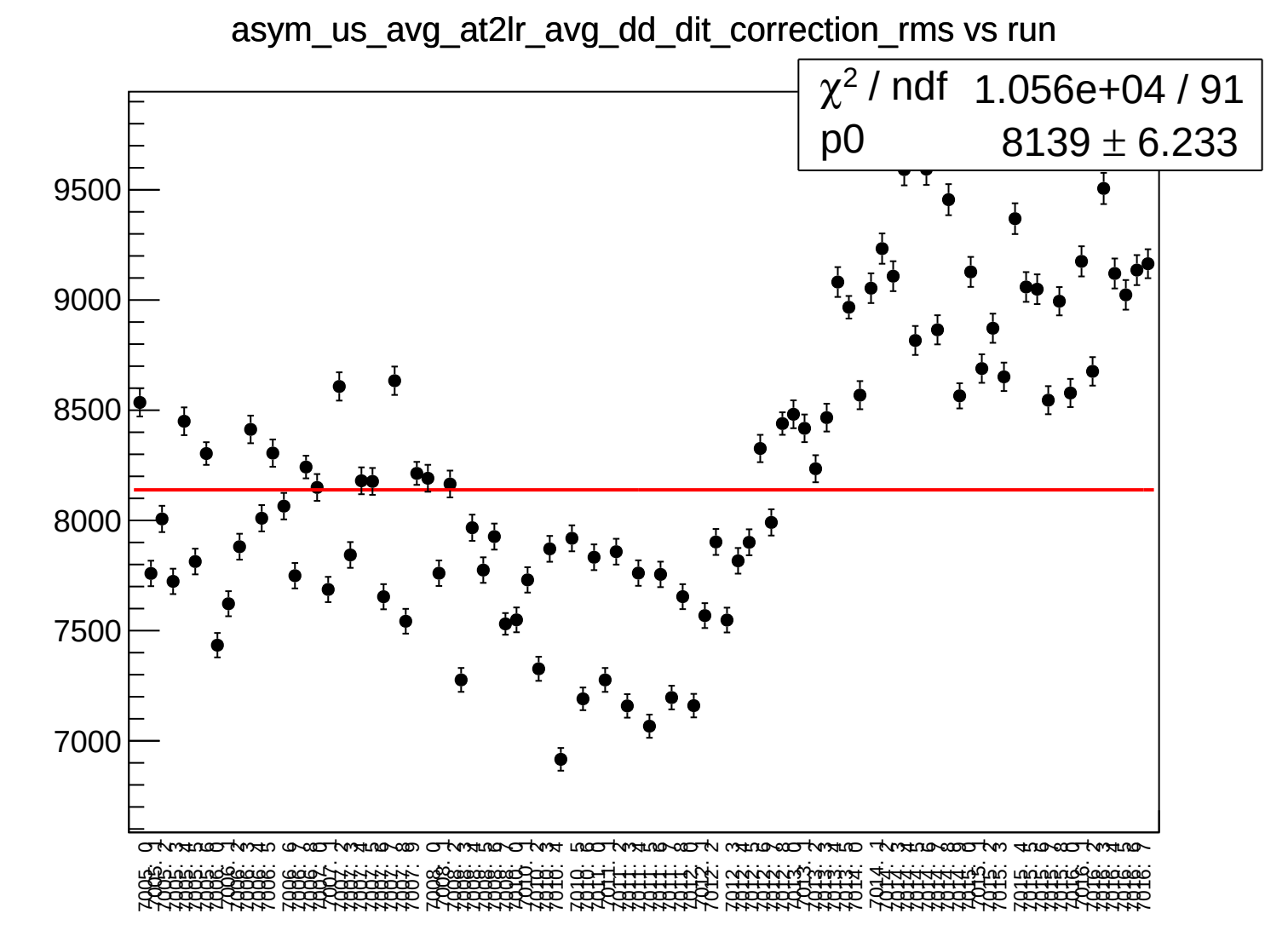

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.073e+04 / 91
p0 7633 ± 5.846
9000
8500
8000
7500
7000
6500

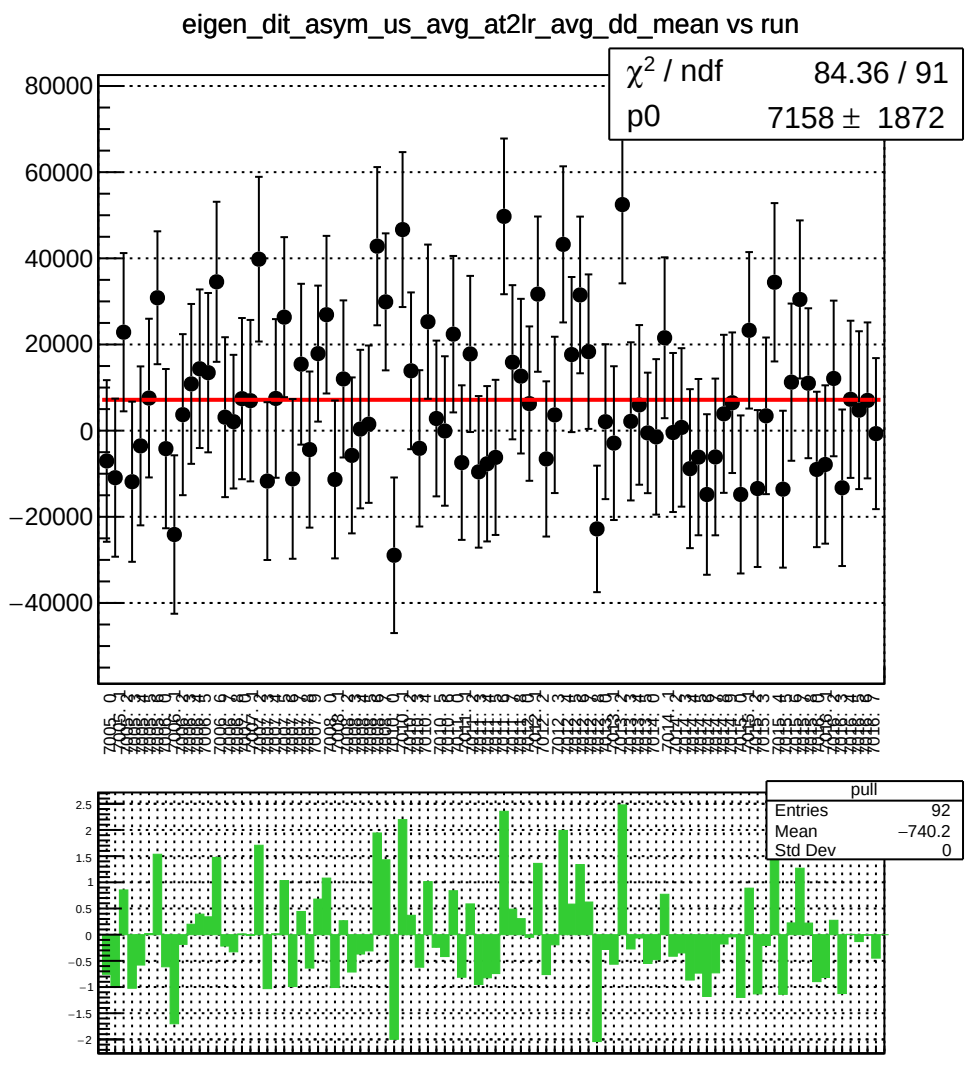

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 84.37 / 91
p0 7158 ± 1872
pull
Entries 92
Mean −740.2
Std Dev 0

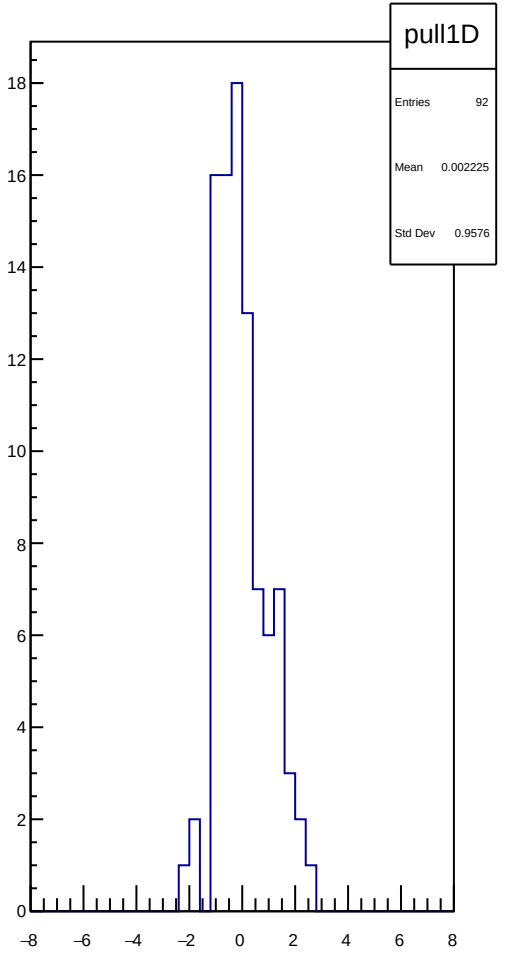

pull1D
Entries 92
Mean 0.002225
Std Dev 0.9576

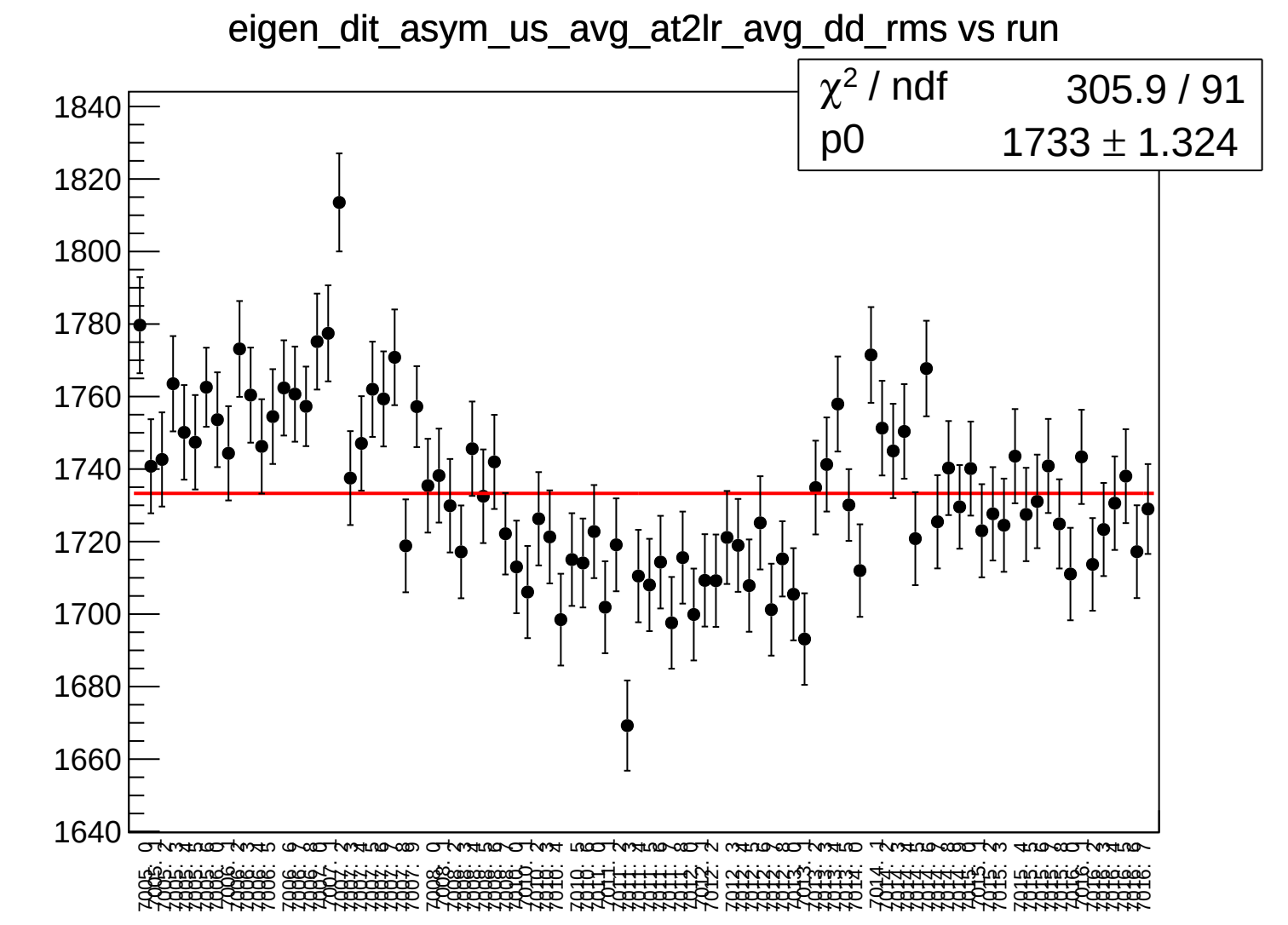

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 305.9 / 91
p0 1733 ± 1.324
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

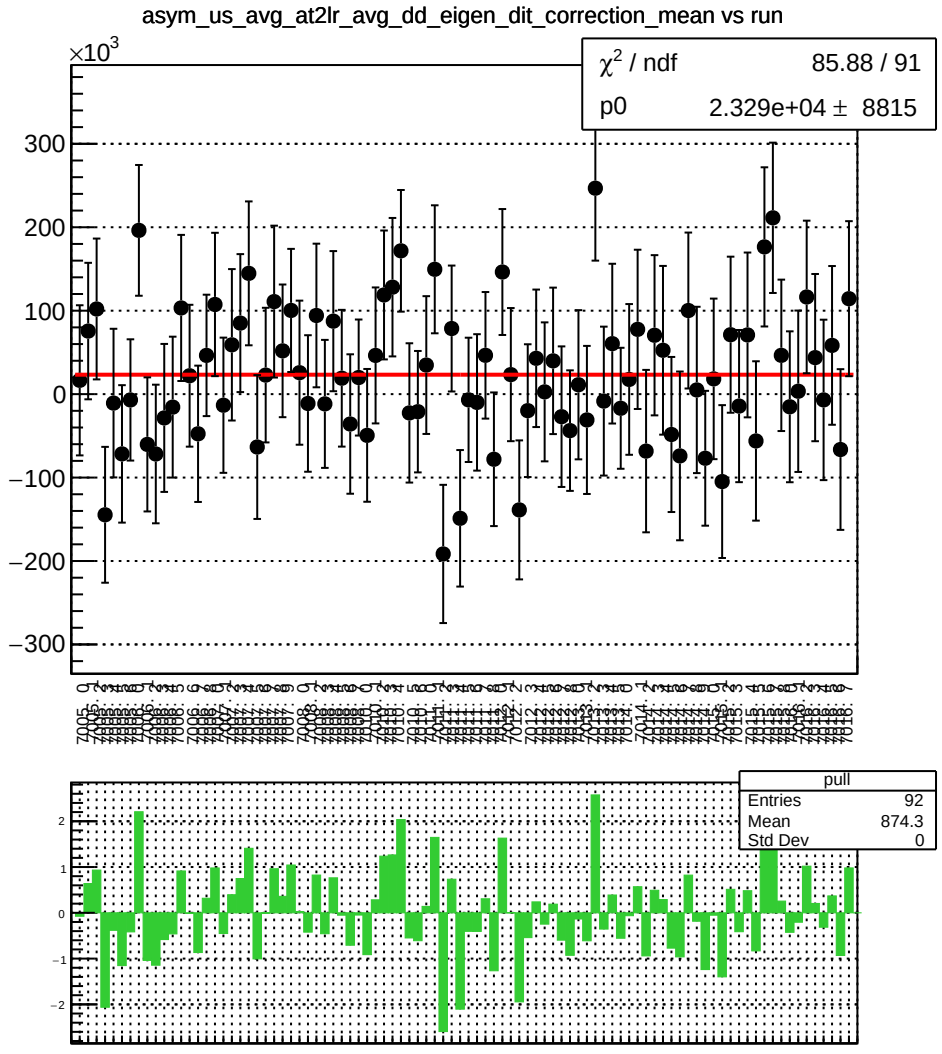

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
χ² / ndf 85.88 / 91
p0 2.329e+04 ± 8815
pull
Entries 92
Mean 874.3
Std Dev 0
pull1D
Entries 92
Mean 0.0005734
Std Dev 0.9662

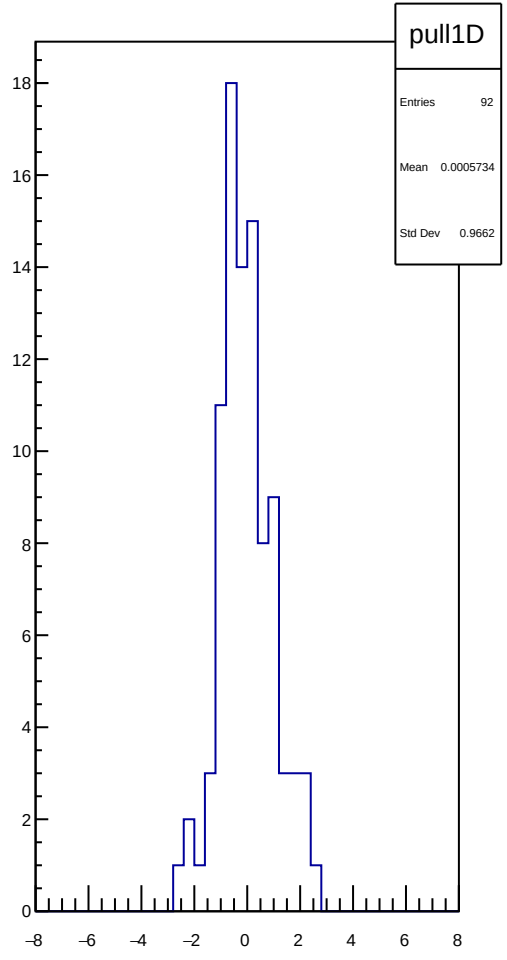

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.056e+04 / 91
p0 8139 ± 6.233
9500
9000
8500
8000
7500
7000

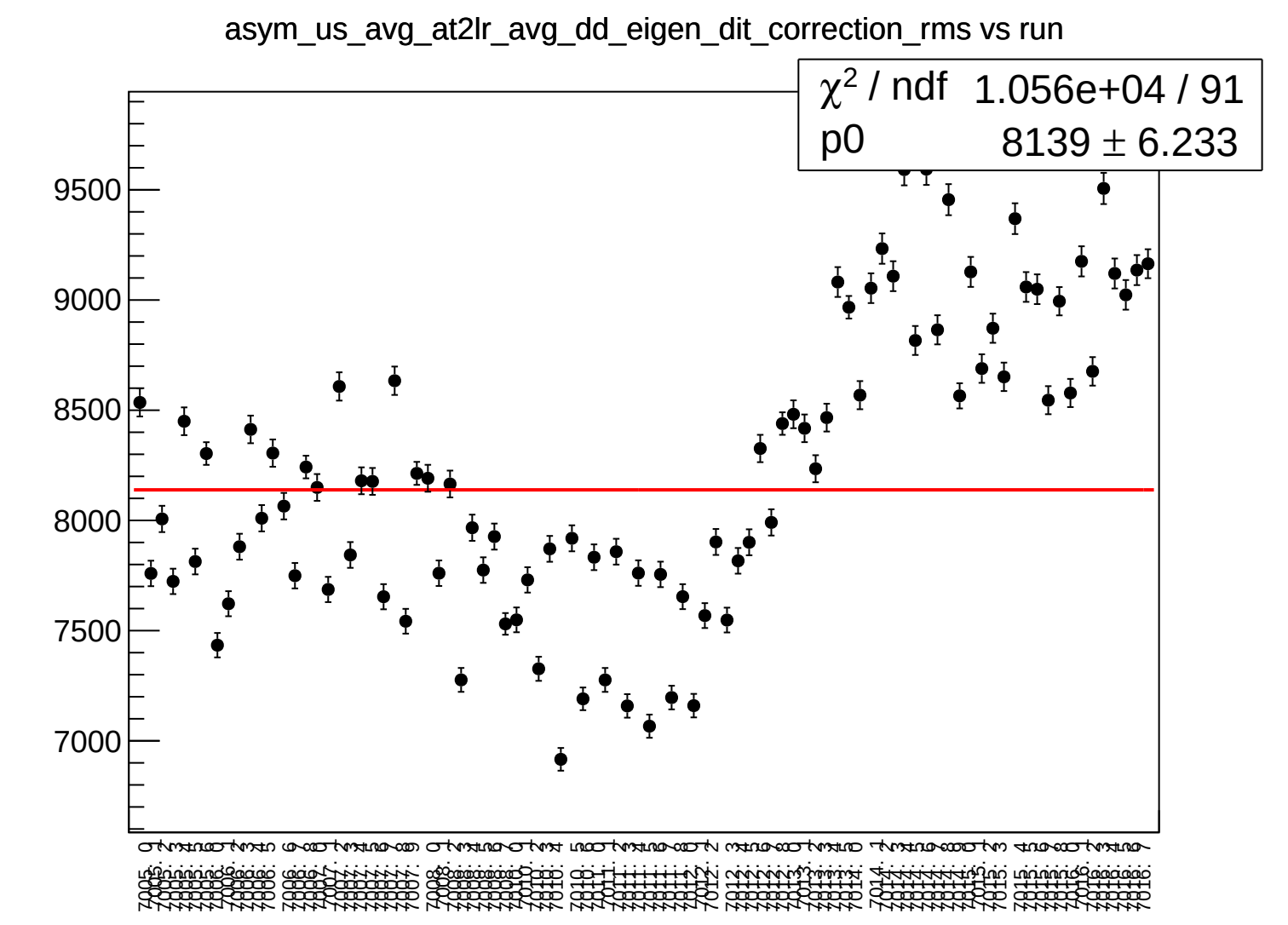

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 84.36 / 91
p0 7158 ± 1872
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −740.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

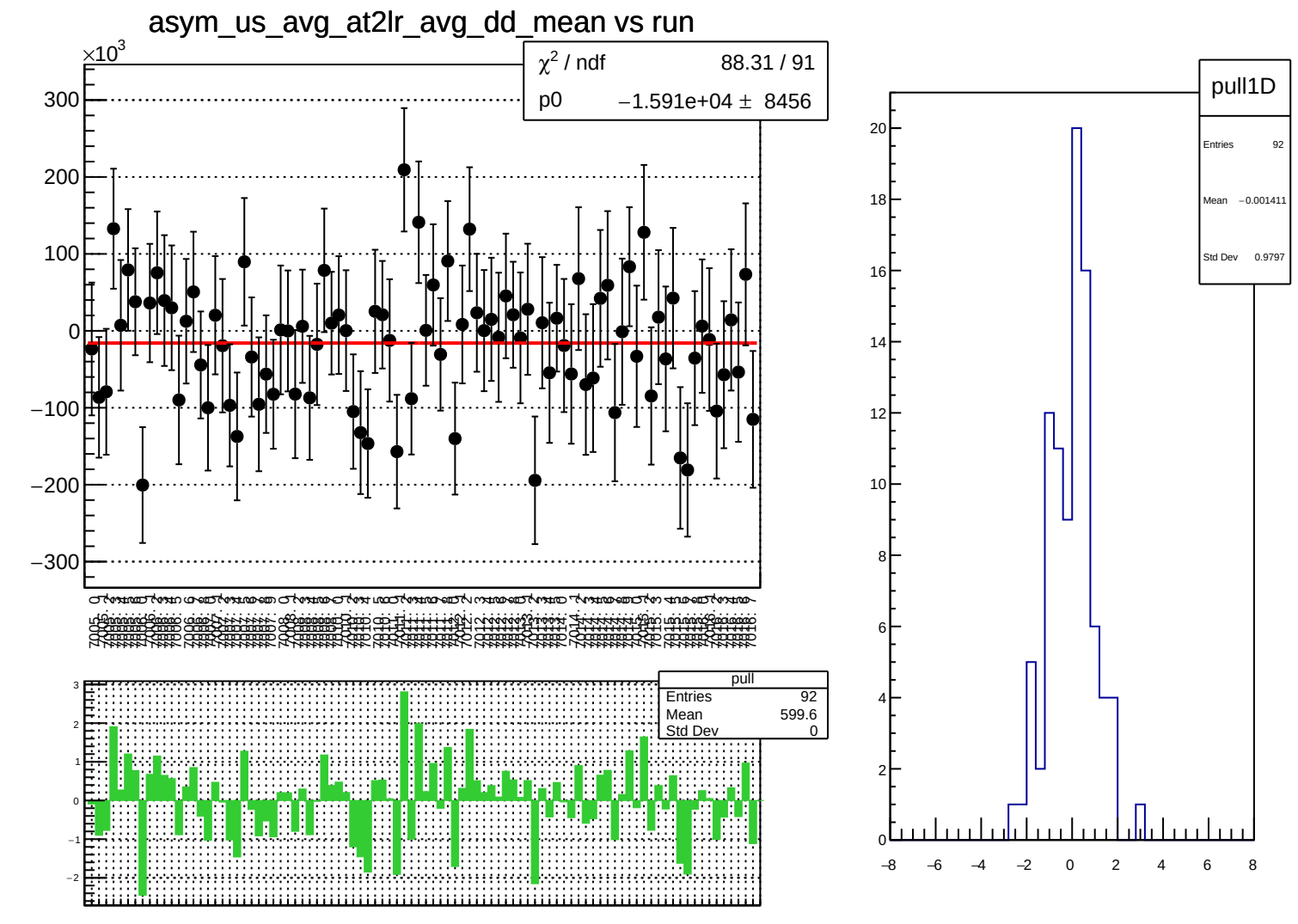

pull1D
Entries 92
Mean 0.002225
Std Dev 0.9576
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

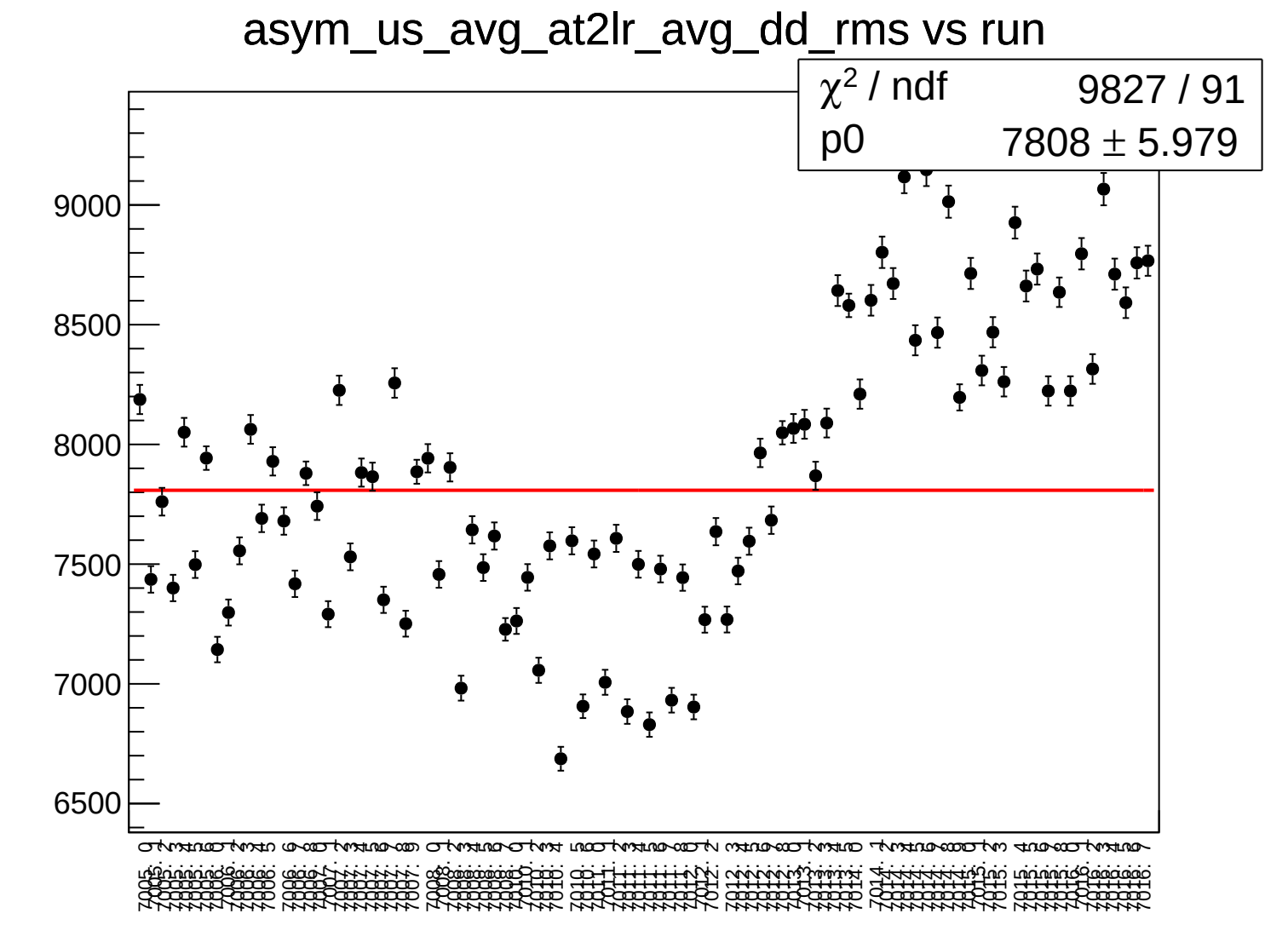

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 305.9 / 91
p0 1733 ± 1.324
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

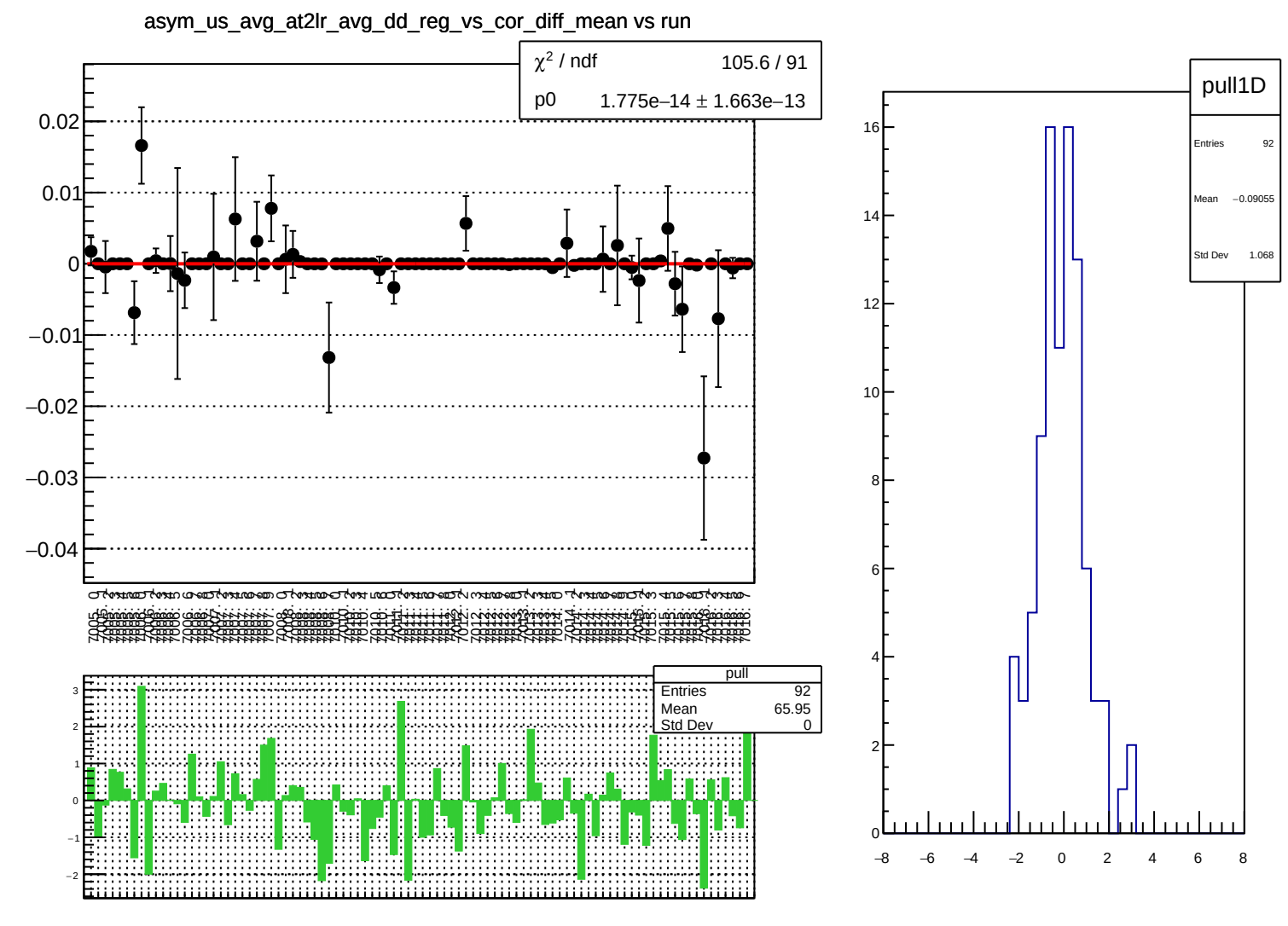

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.88 / 91
p0 2.329e+04 ± 8815
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean 874.3
Std Dev 0
2
1
0
−1
−2

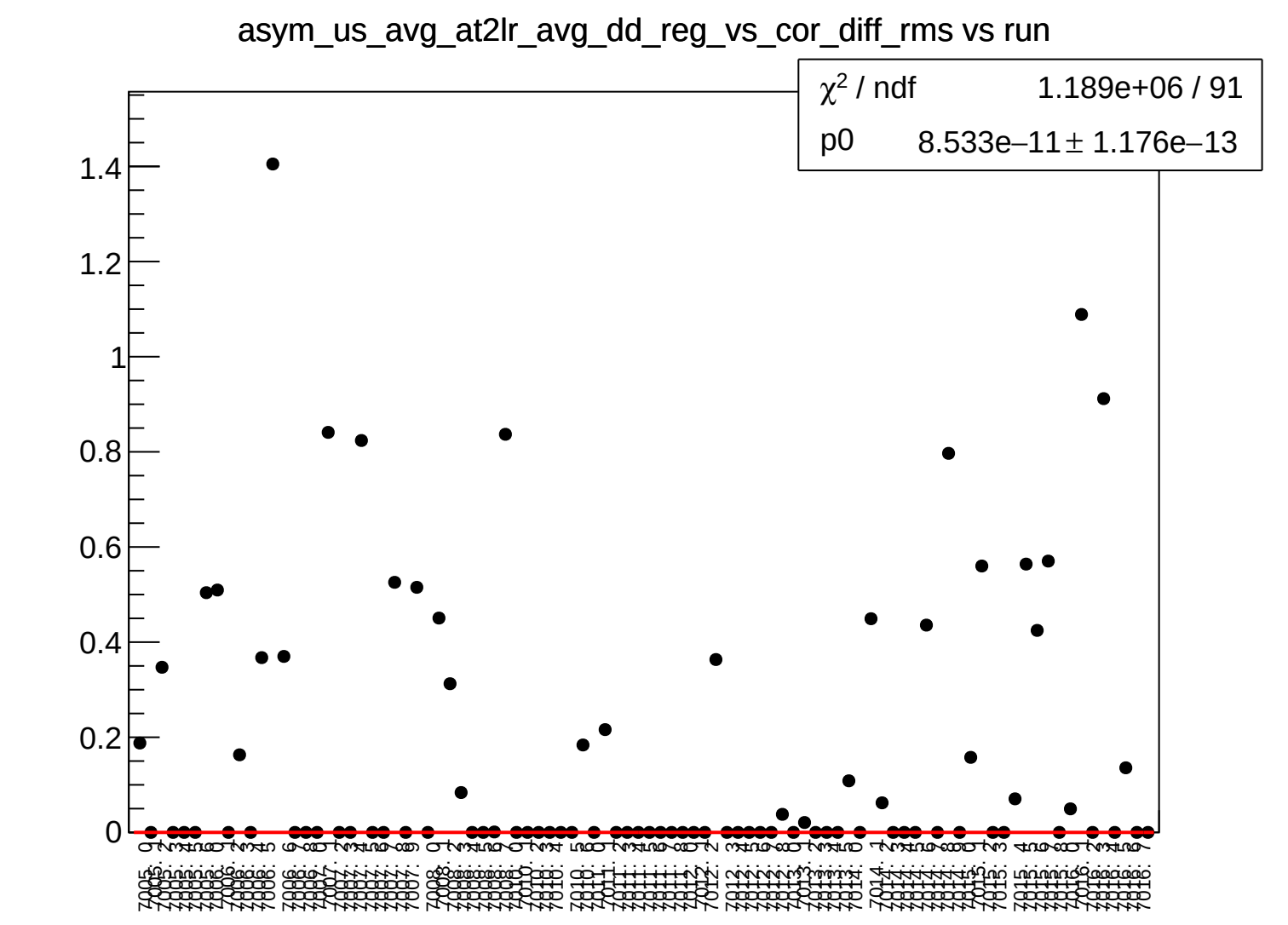

pull1D
Entries 92
Mean 0.0005734
Std Dev 0.9662
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

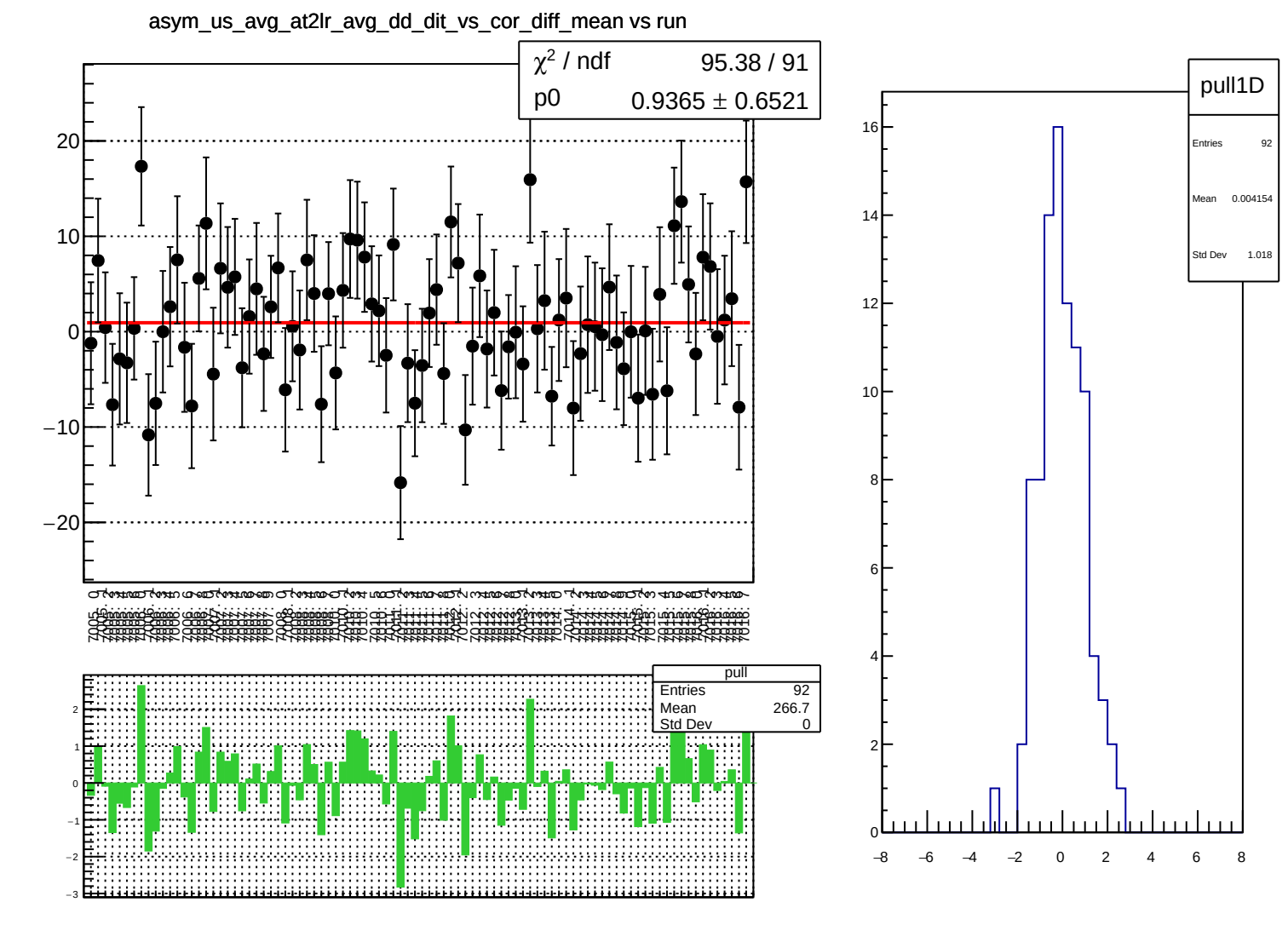

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.056e+04 / 91
p0 8139 ± 6.233
9500
9000
8500
8000
7500
7000

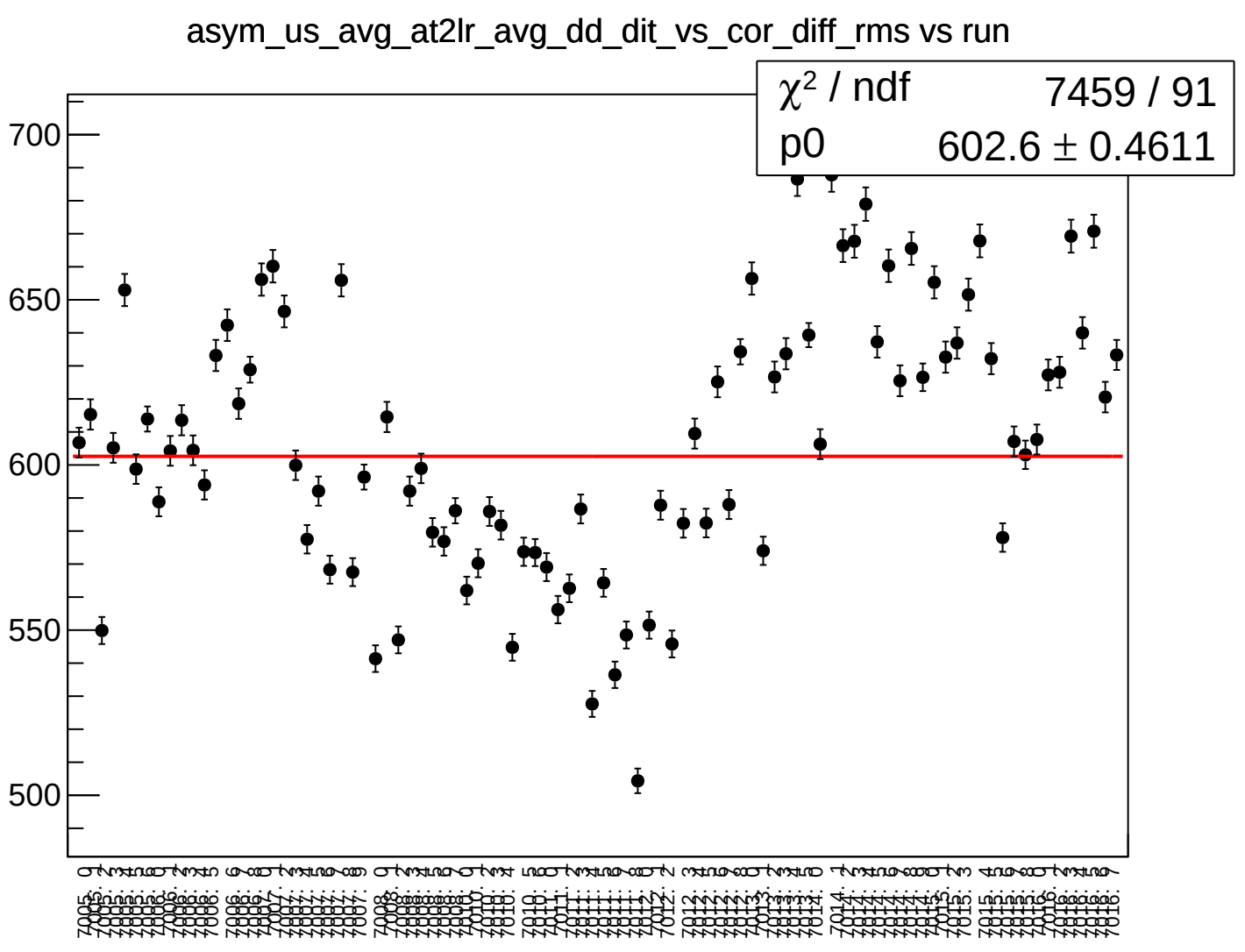

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 88.31 / 91
p0 −1.591e+04 ± 8456
pull
Entries 92
Mean 599.6
Std Dev 0
pull1D
Entries 92
Mean −0.001411
Std Dev 0.9797

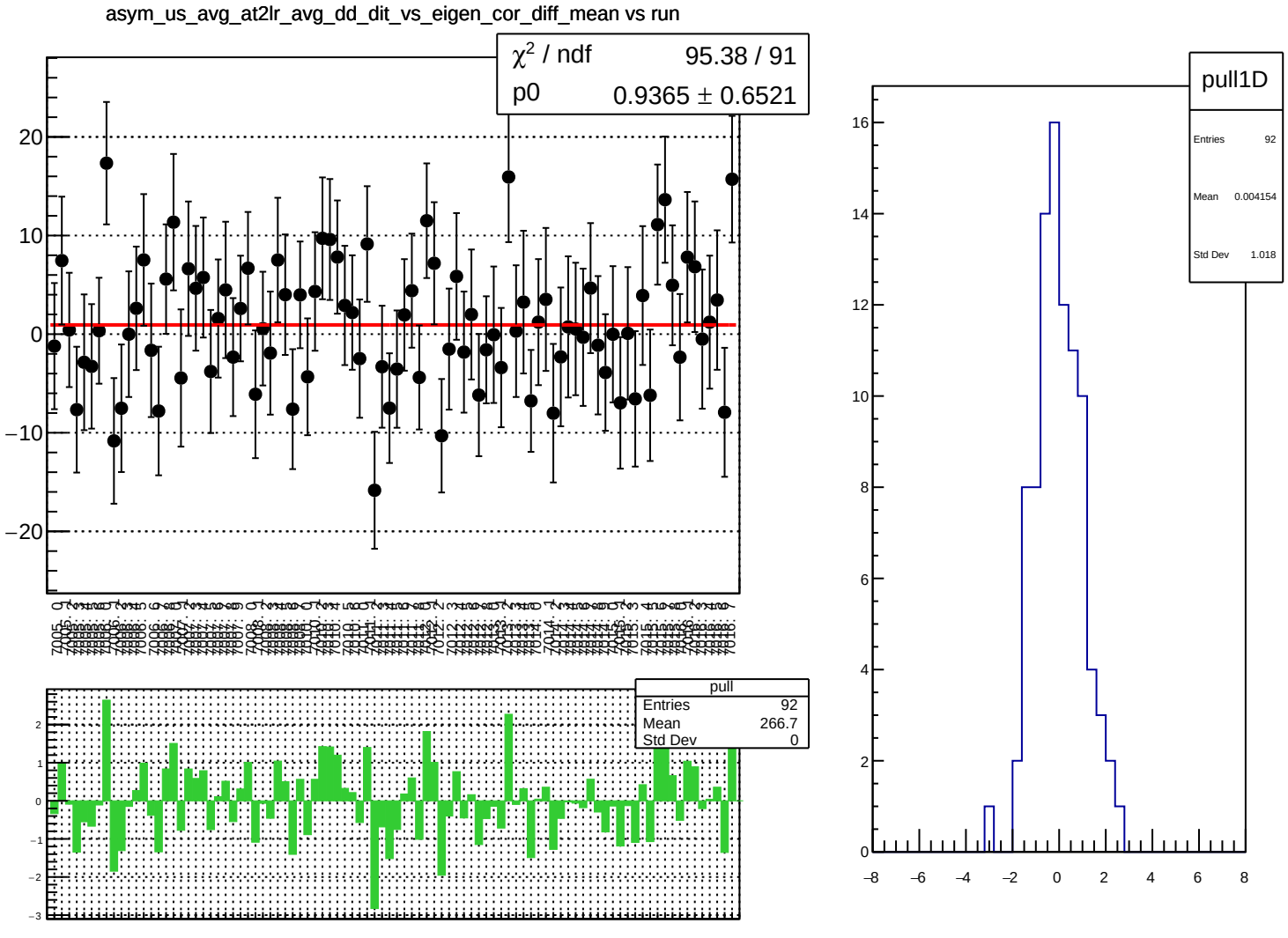

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 9827 / 91
p0 7808 ± 5.979
9000
8500
8000
7500
7000
6500

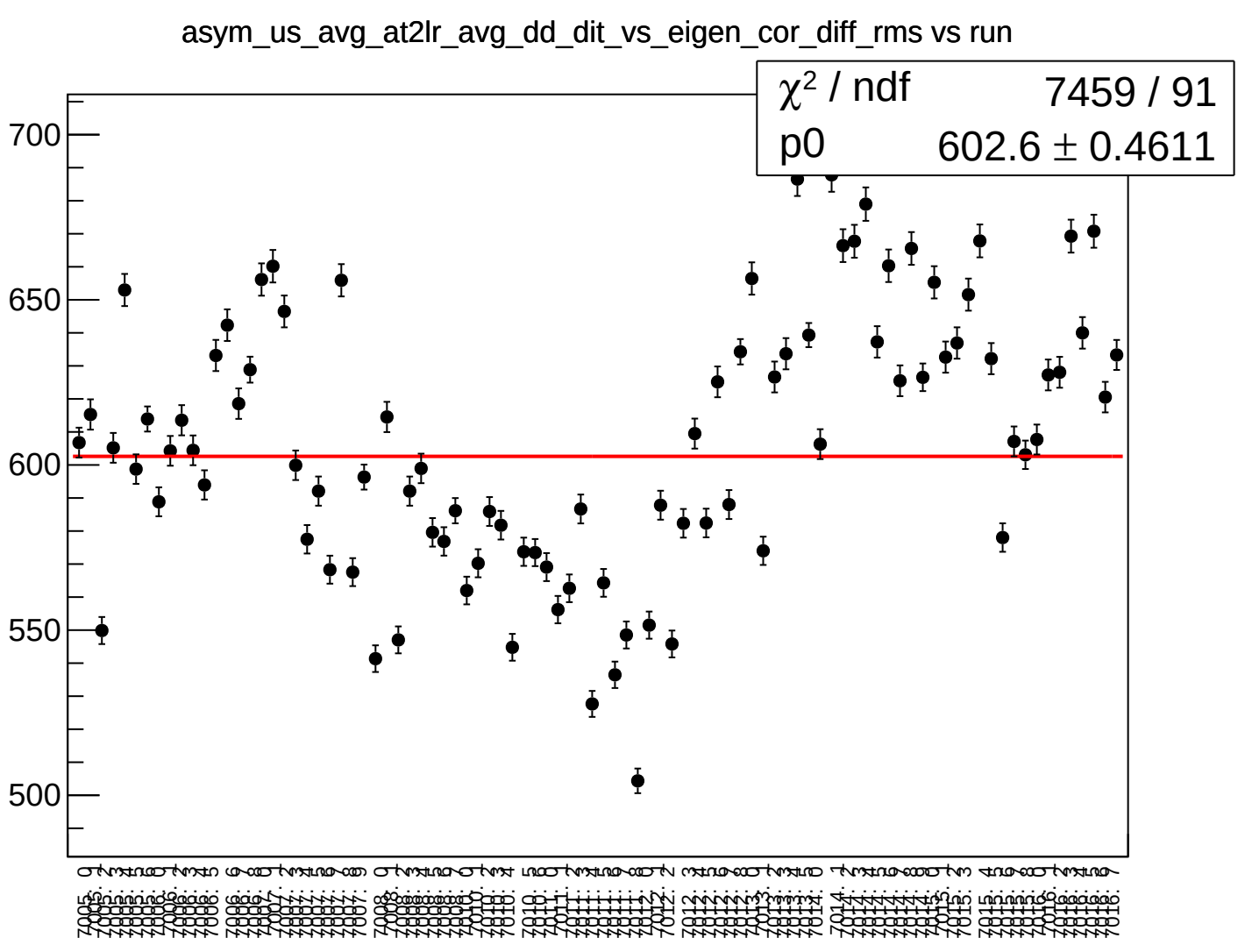

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 91
p0 1.775e−14 ± 1.663e−13
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 92
Mean 65.95
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.09055
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

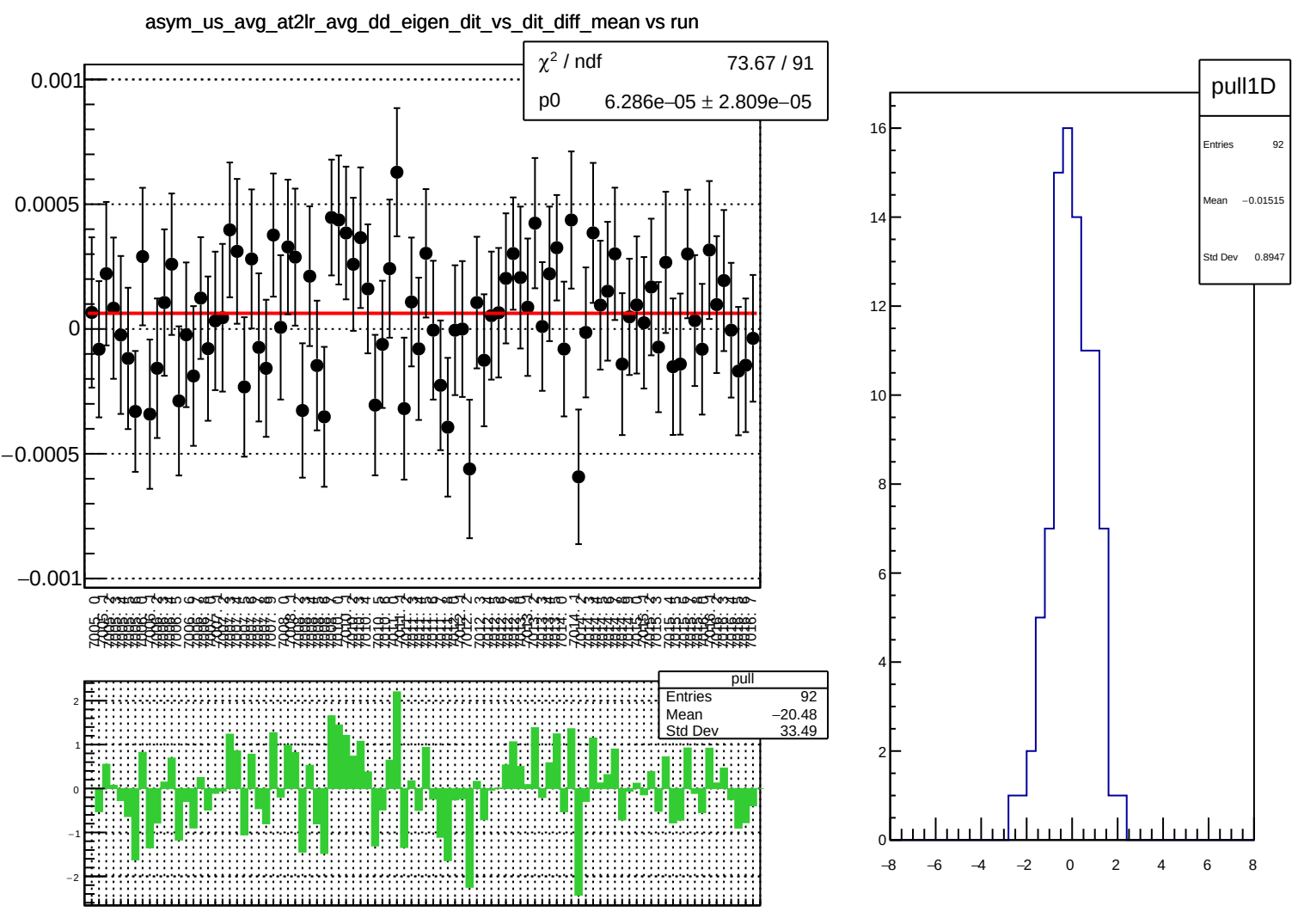

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.189e+06 / 91
p0 8.533e−11 ± 1.176e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

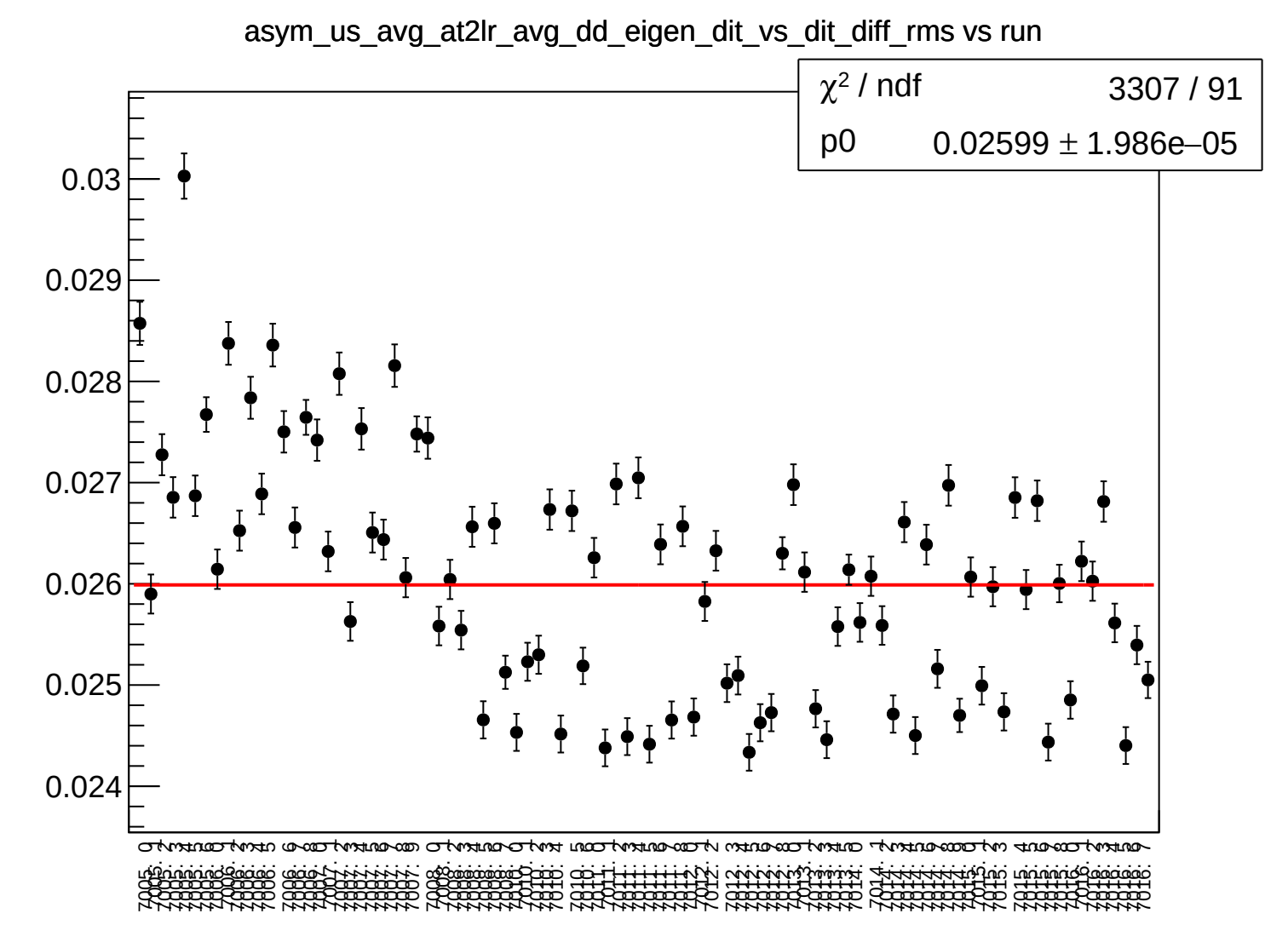

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.38 / 91
p0 0.9365 ± 0.6521
pull
Entries 92
Mean 266.7
Std Dev 0
pull1D
Entries 92
Mean 0.004154
Std Dev 1.018

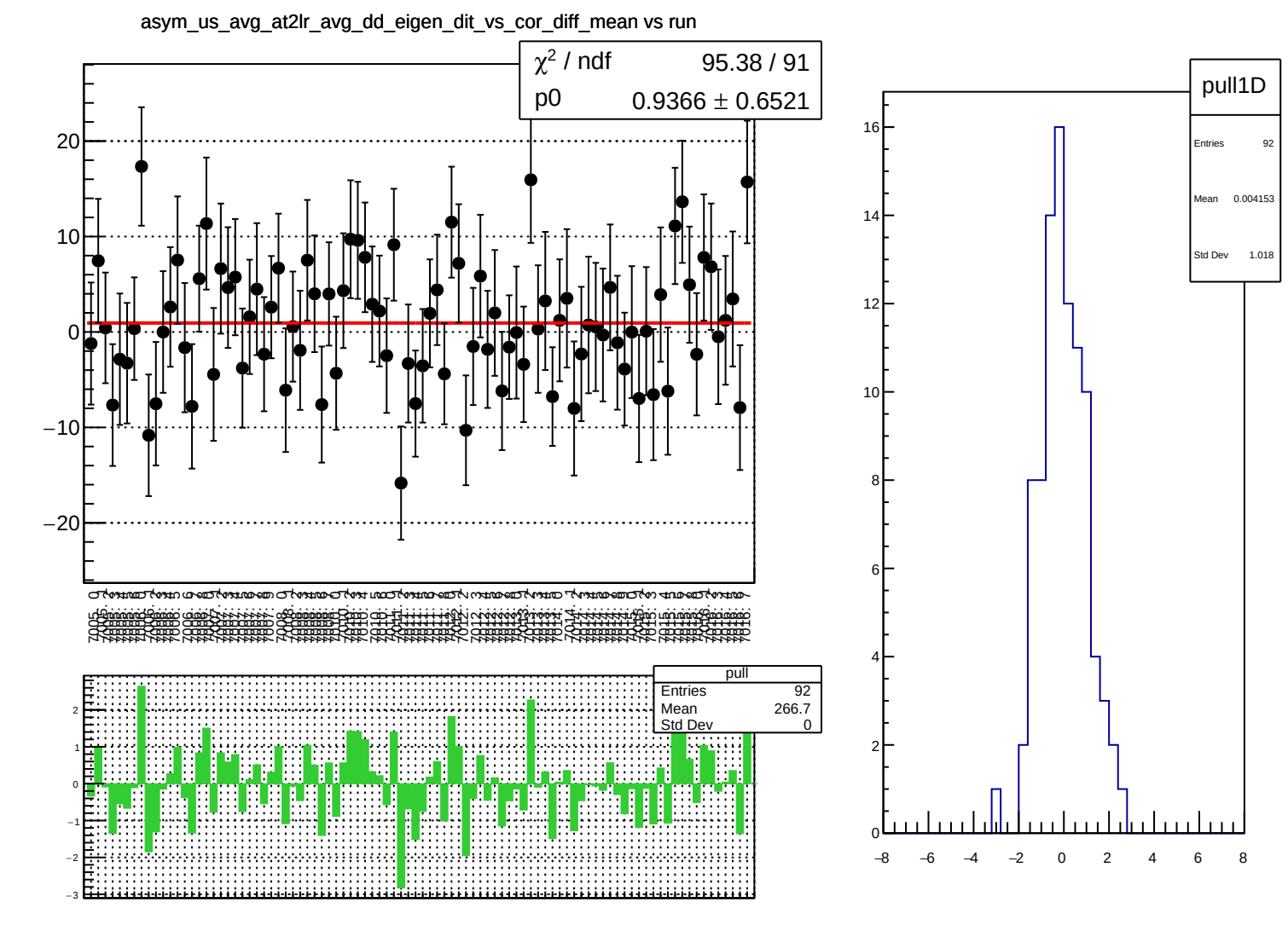

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7459 / 91
p0 602.6 ± 0.4611
700
650
600
550
500

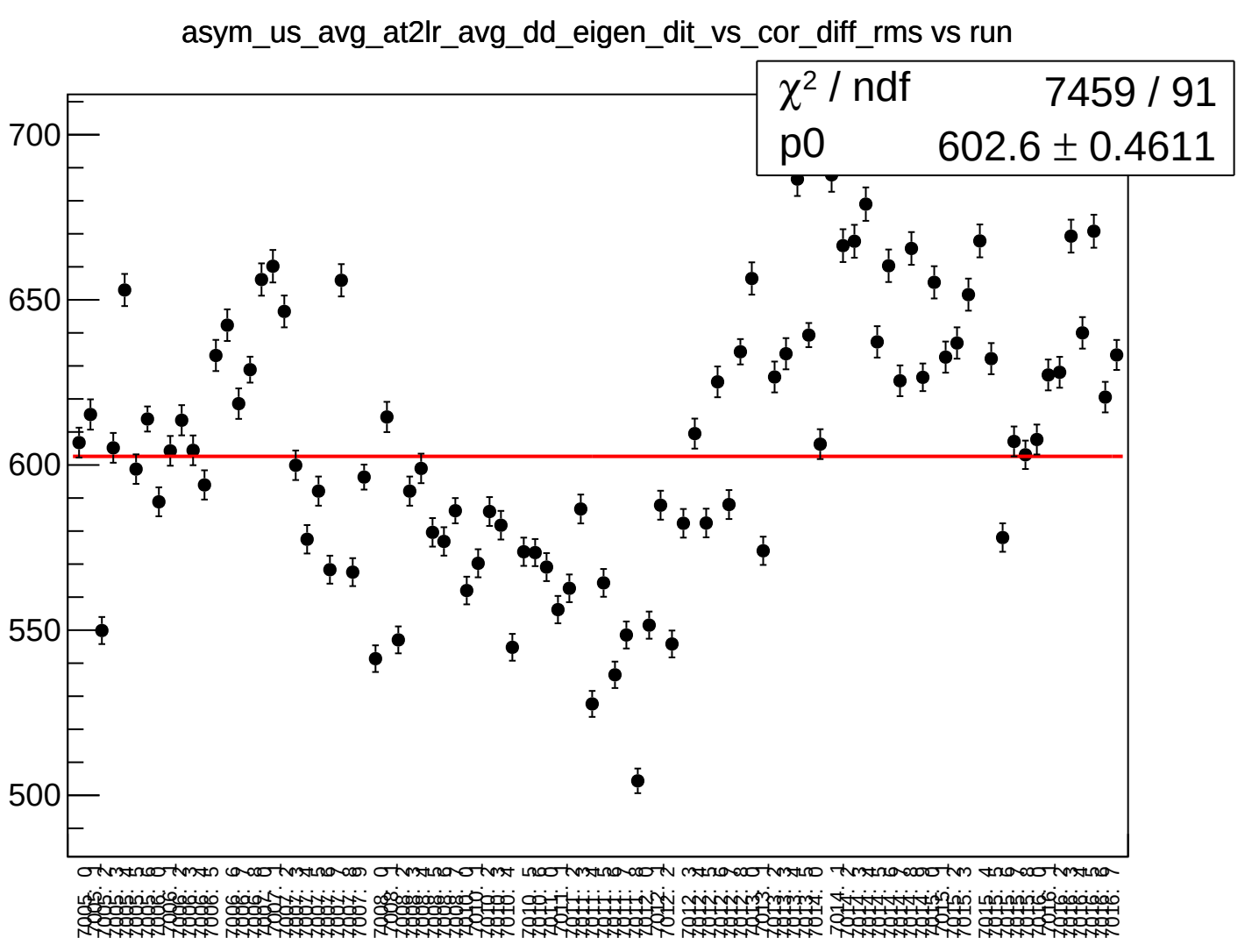

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.38 / 91
p0 0.9365 ± 0.6521
pull
Entries 92
Mean 266.7
Std Dev 0
pull1D
Entries 92
Mean 0.004154
Std Dev 1.018

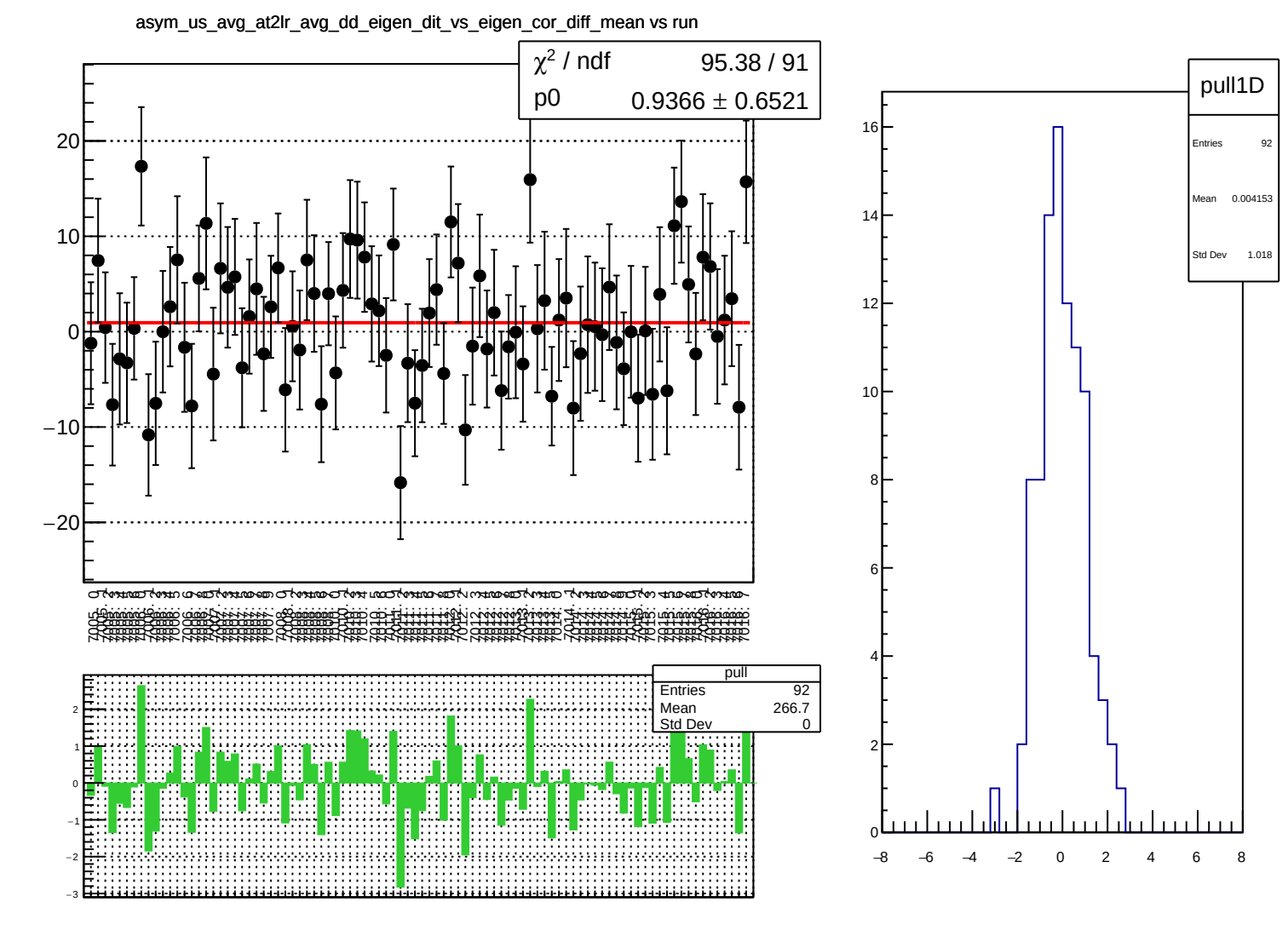

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7459 / 91
p0 602.6 ± 0.4611
700
650
600
550
500

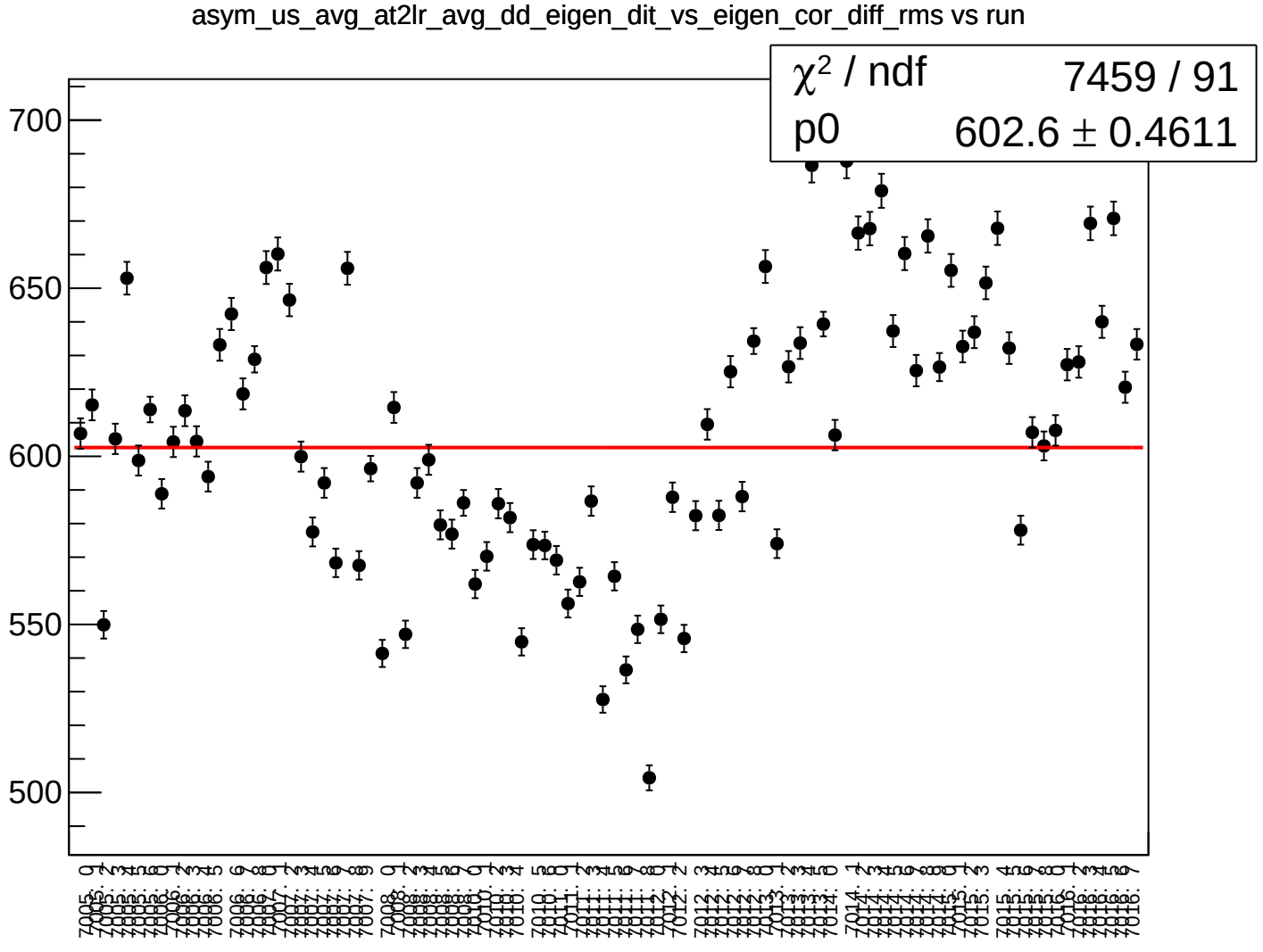

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 73.67 / 91
p0 6.286e−05 ± 2.809e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −20.48
Std Dev 33.49
pull1D
Entries 92
Mean −0.01515
Std Dev 0.8947

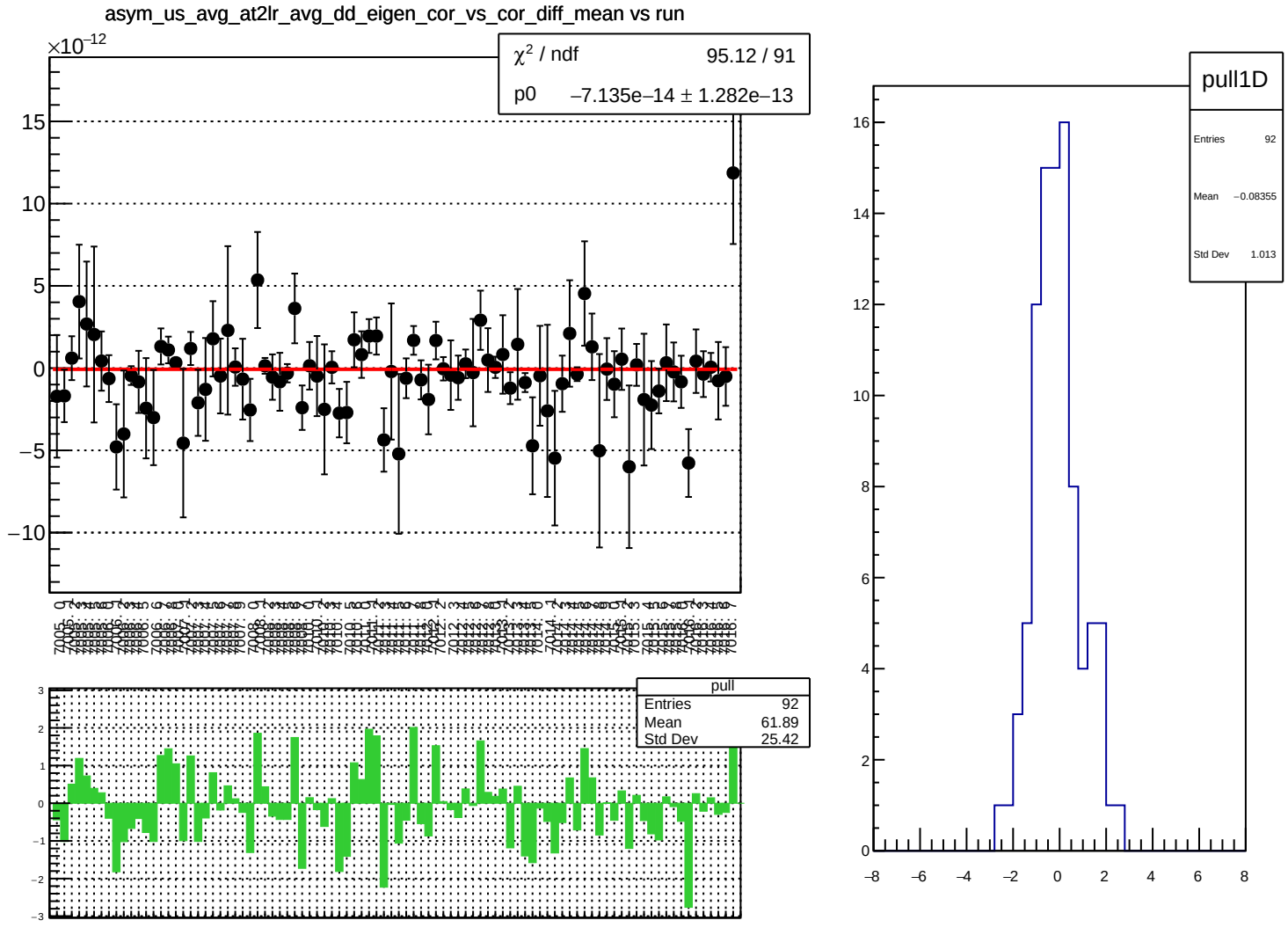

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3307 / 91
p0 0.02599 ± 1.986e−05
0.03
0.029
0.028
0.027
0.026
0.025
0.024

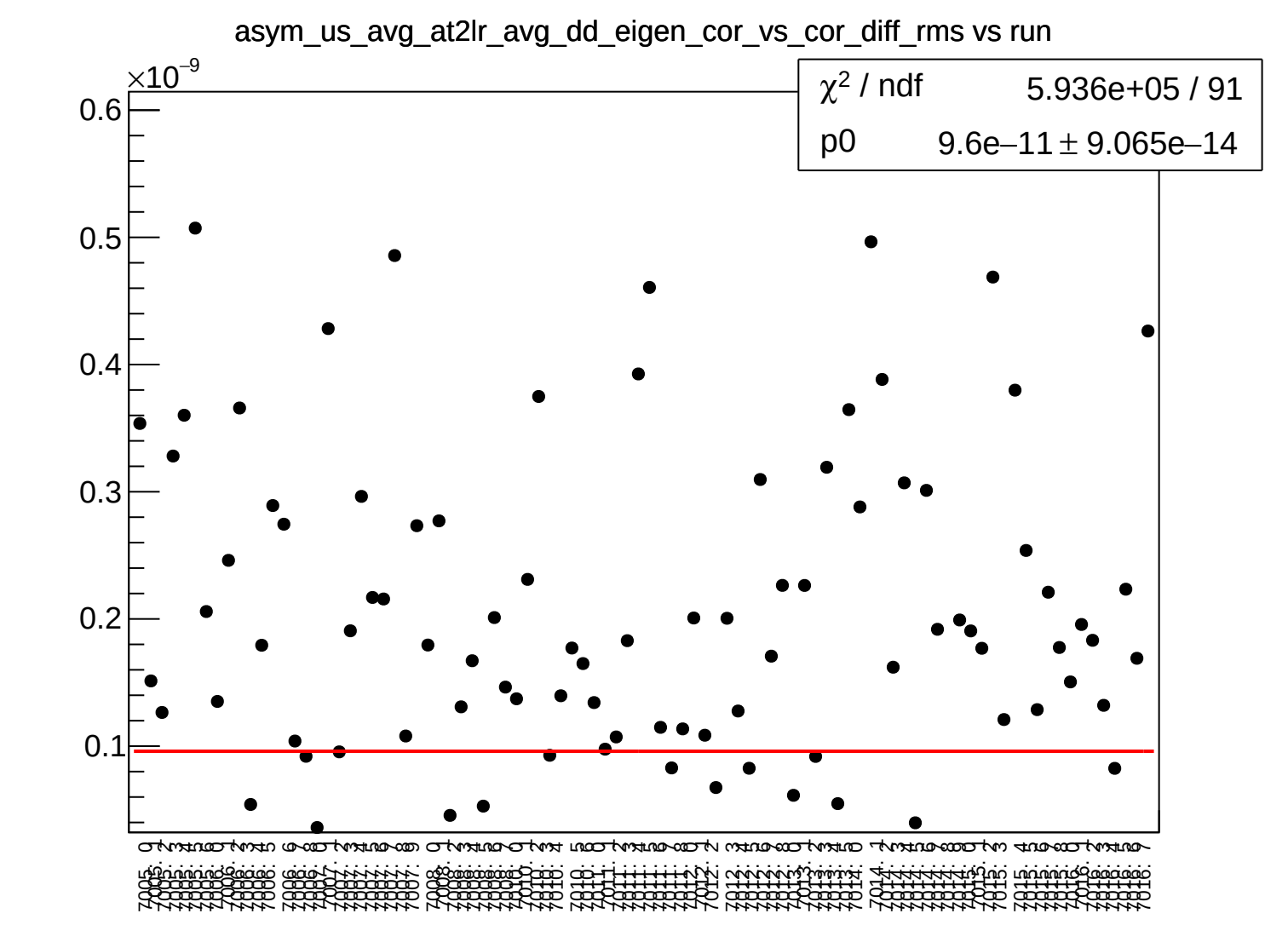

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.38 / 91
p0 0.9366 ± 0.6521
pull
Entries 92
Mean 266.7
Std Dev 0
pull1D
Entries 92
Mean 0.004153
Std Dev 1.018

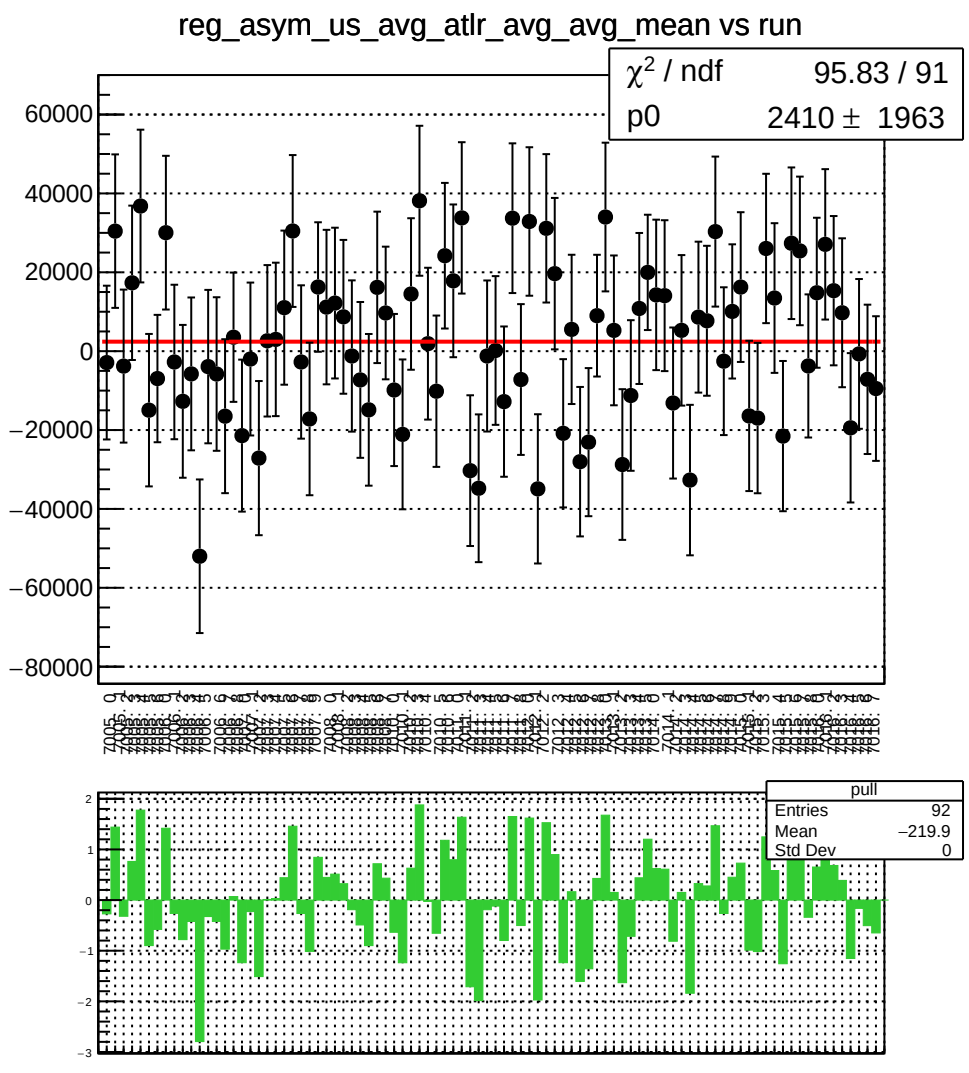

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7459 / 91
p0 602.6 ± 0.4611
700
650
600
550
500

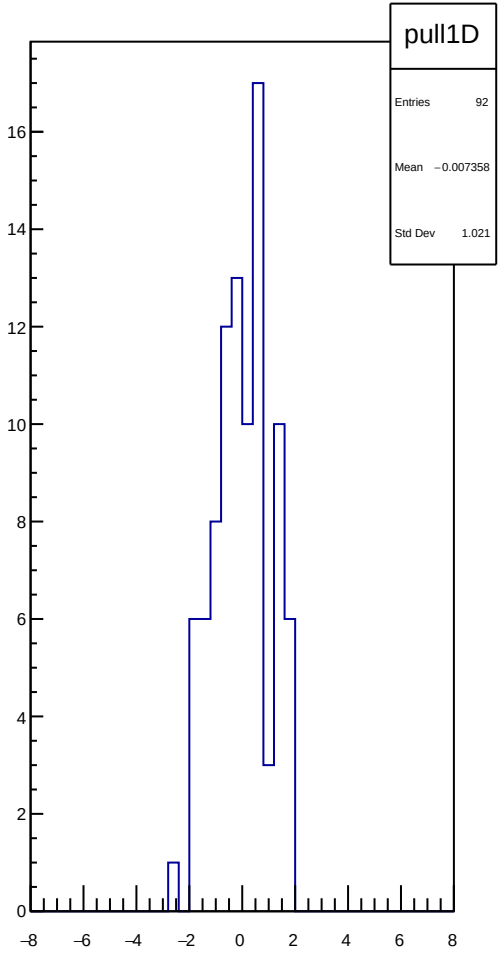

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.38 / 91
p0 0.9366 ± 0.6521
pull
Entries 92
Mean 266.7
Std Dev 0
pull1D
Entries 92
Mean 0.004153
Std Dev 1.018

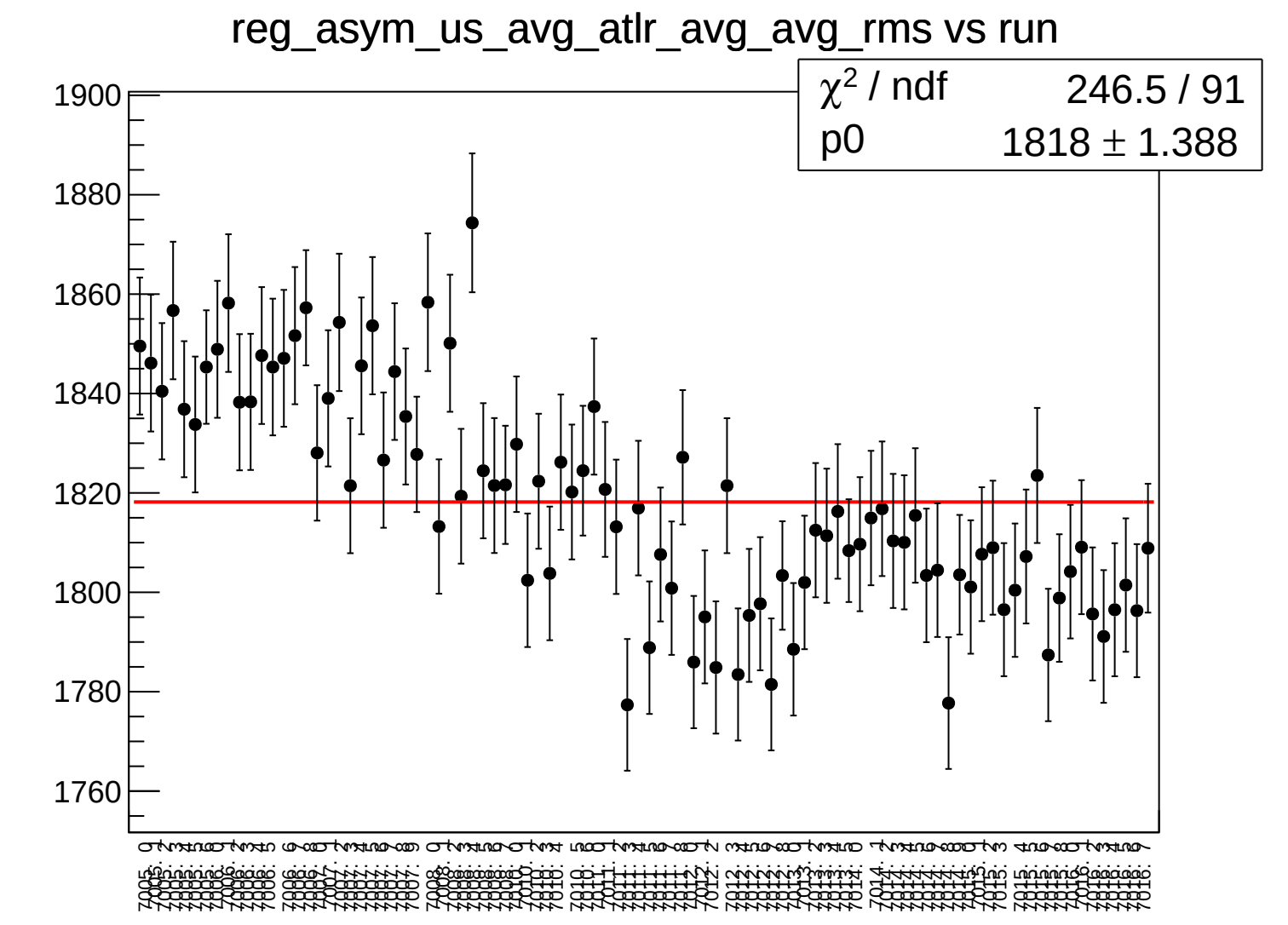

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7459 / 91
p0 602.6 ± 0.4611
700
650
600
550
500

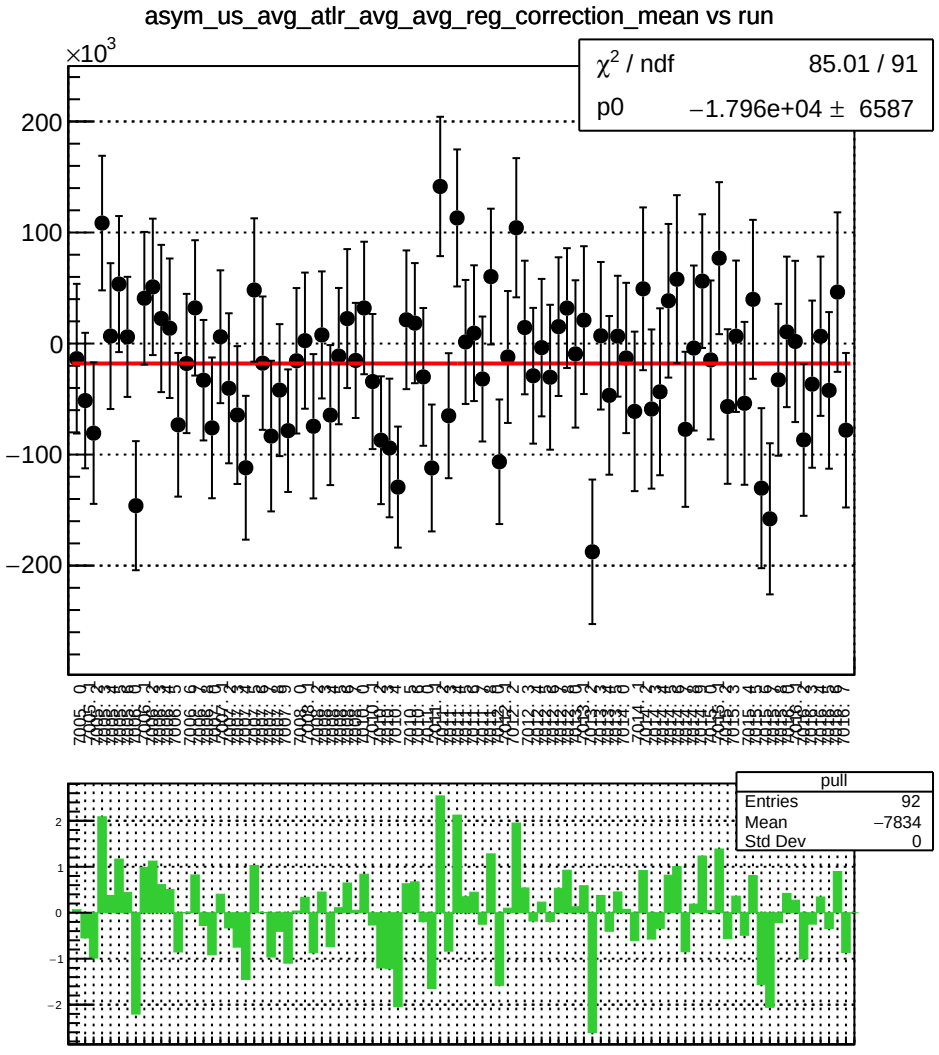

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.12 / 91
p0 −7.135e−14 ± 1.282e−13
pull
Entries 92
Mean 61.89
Std Dev 25.42
pull1D
Entries 92
Mean −0.08355
Std Dev 1.013

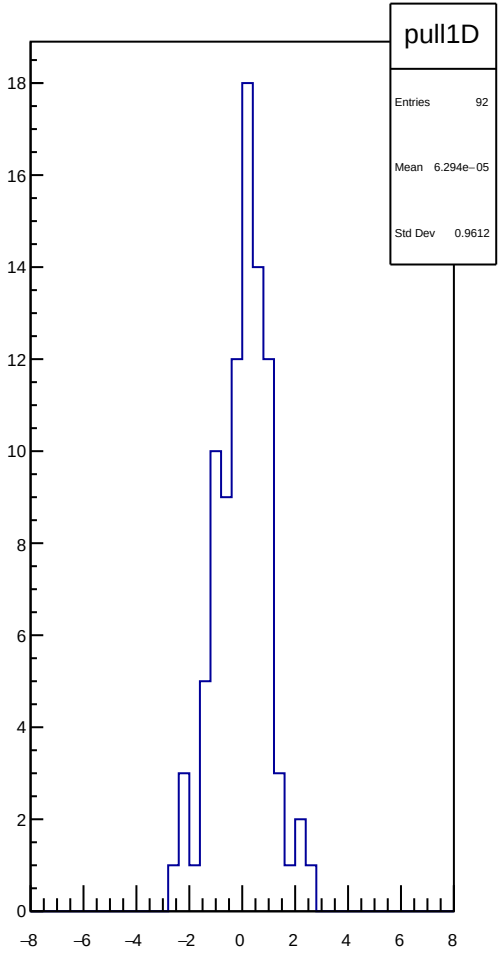

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.936e+05 / 91
p0 9.6e−11 ± 9.065e−14

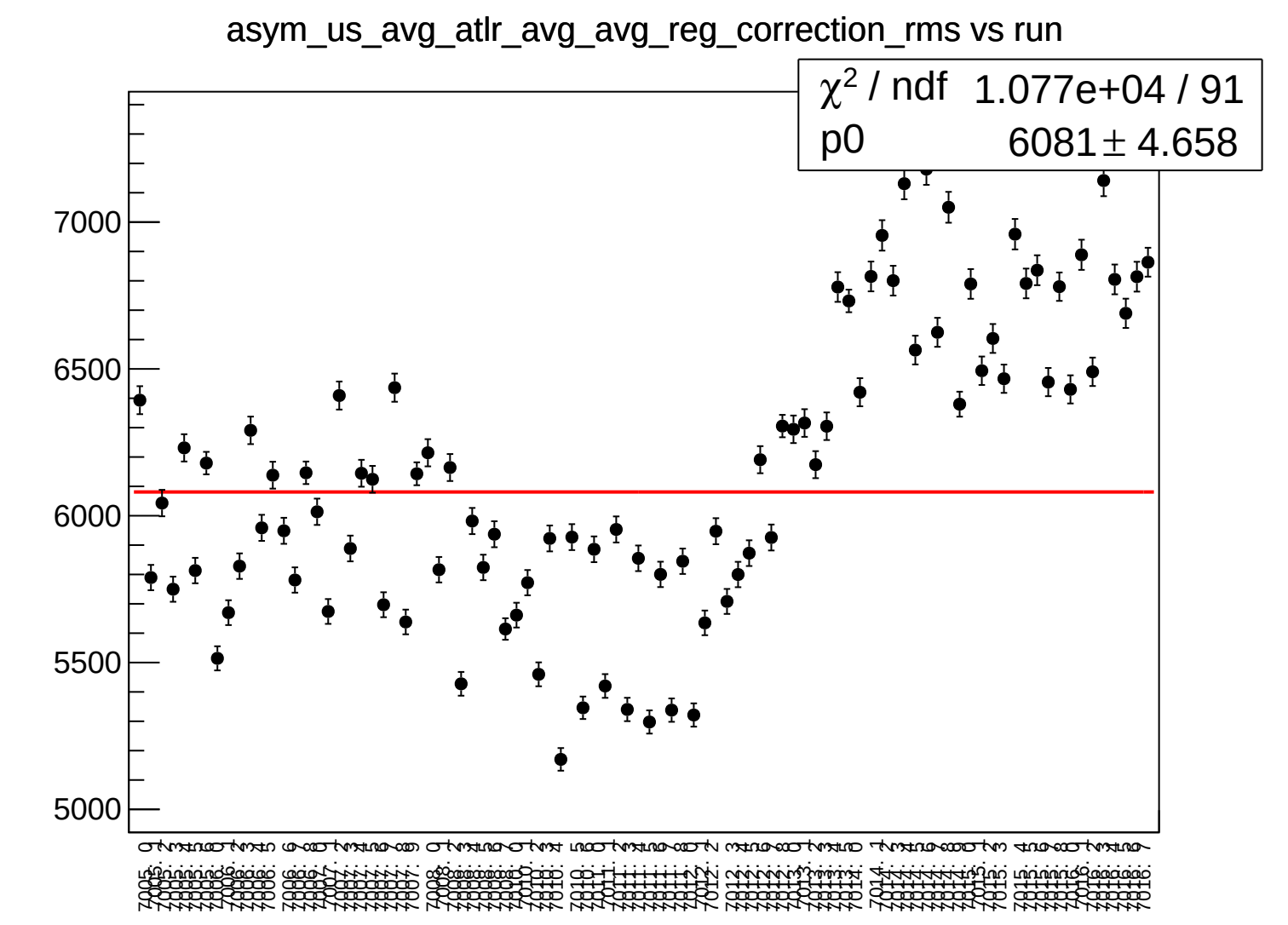

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 95.83 / 91
p0 2410 ± 1963
pull
Entries 92
Mean −219.9
Std Dev 0

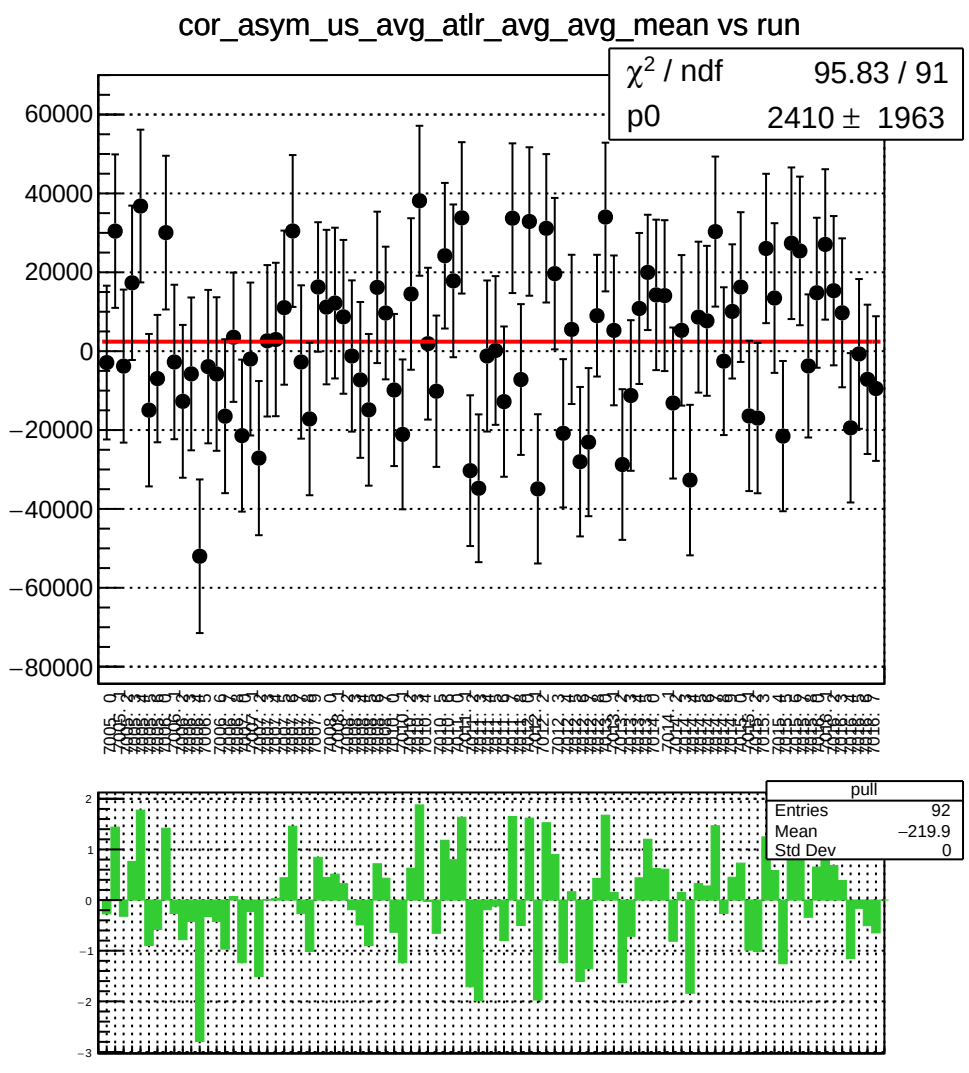

pull1D
Entries 92
Mean −0.007358
Std Dev 1.021

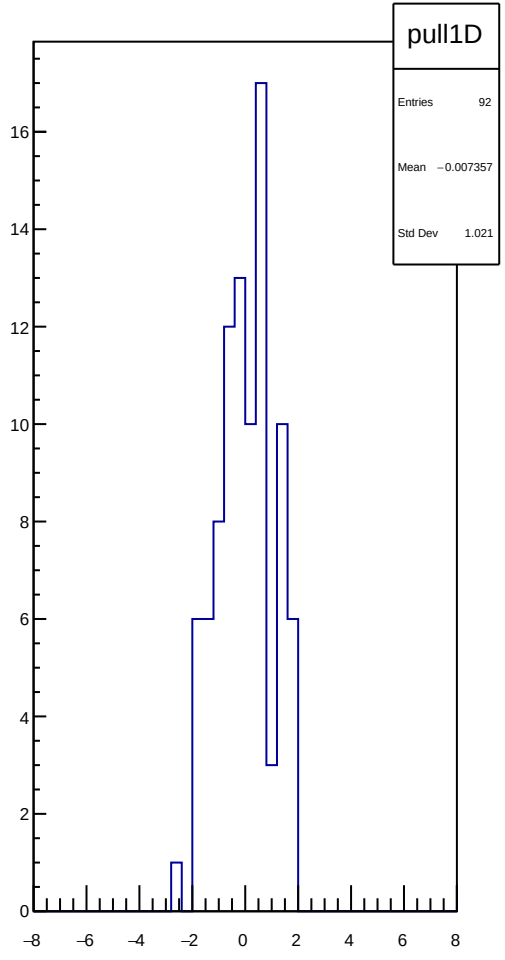

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 246.5 / 91
p0 1818 ± 1.388
1900
1880
1860
1840
1820
1800
1780
1760

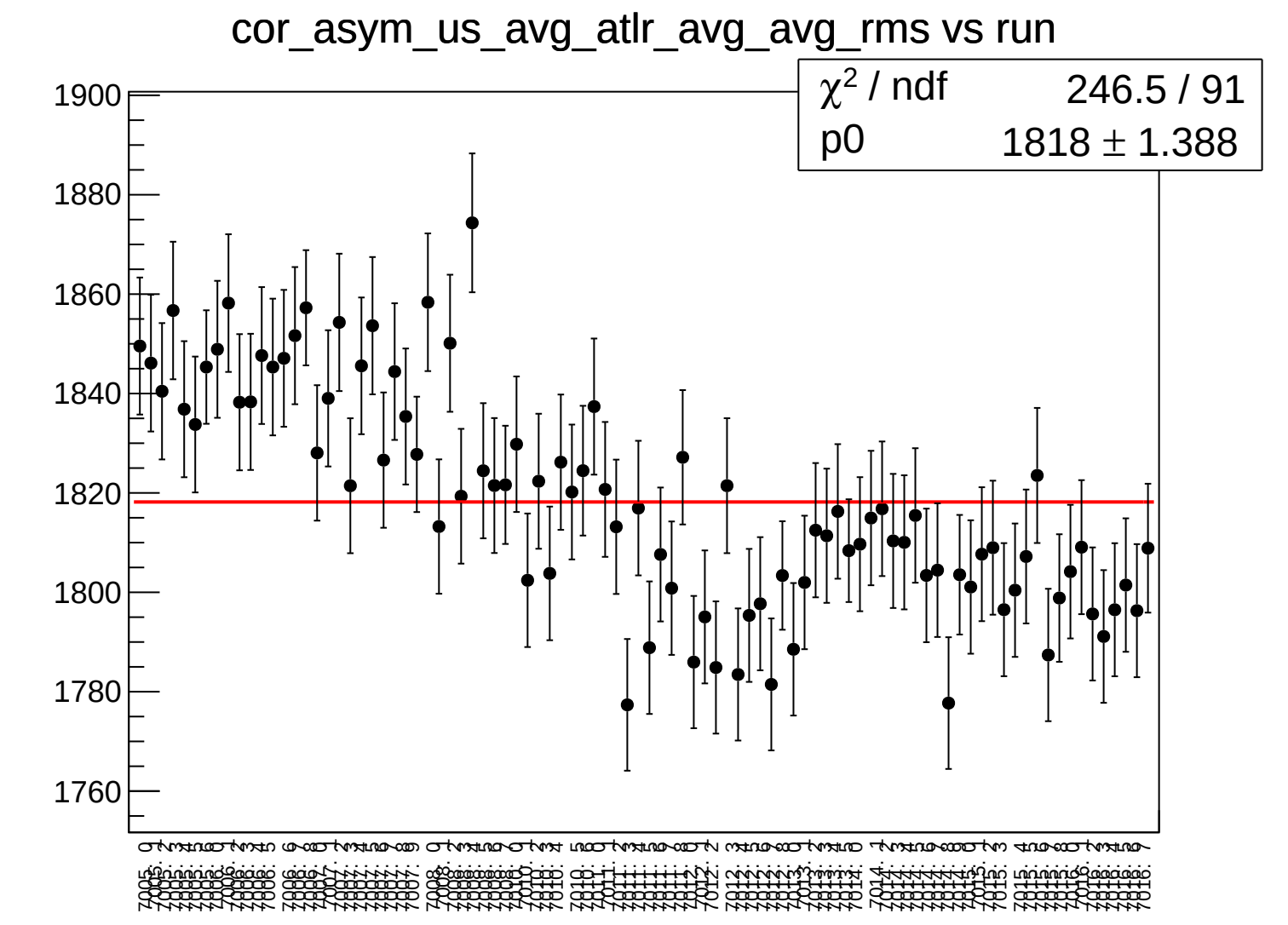

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.01 / 91
p0 −1.796e+04 ± 6587
200
100
0
−100
−200
pull
Entries 92
Mean −7834
Std Dev 0
2
1
0
−1
−2

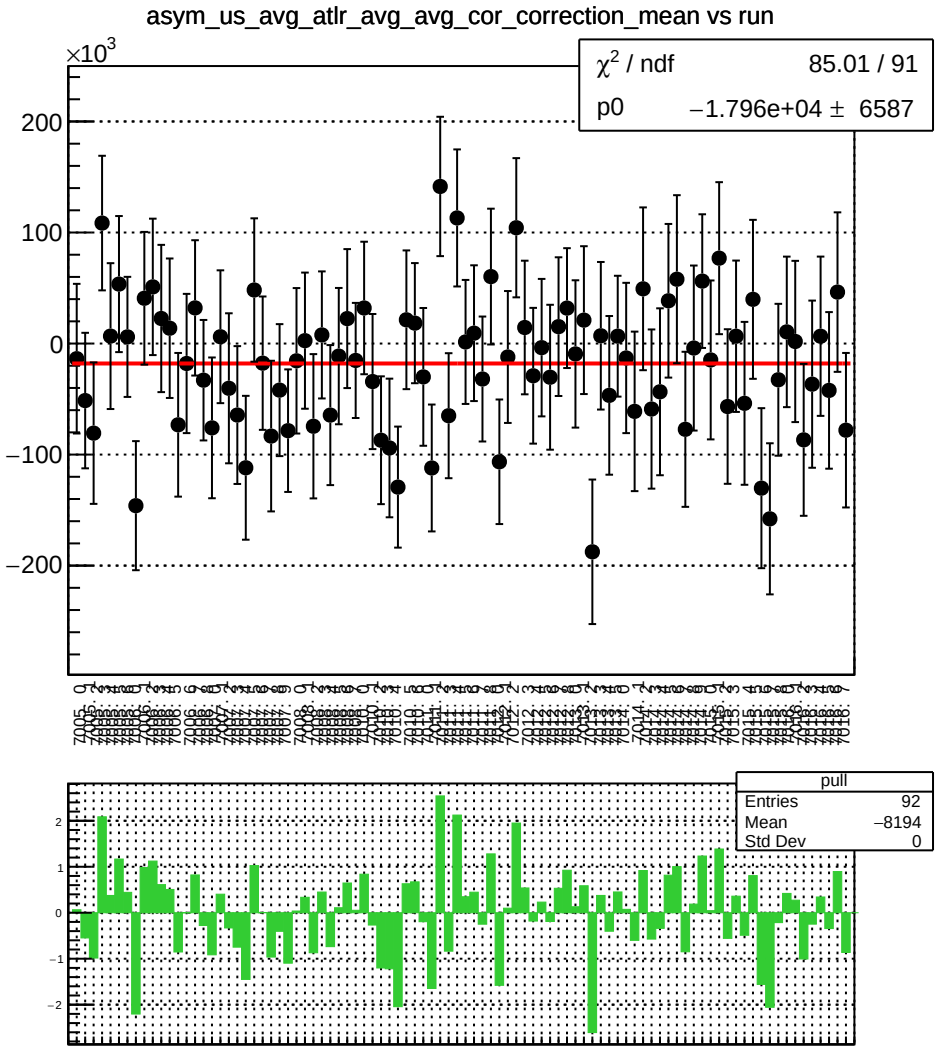

pull1D
Entries 92
Mean 6.294e−05
Std Dev 0.9612
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

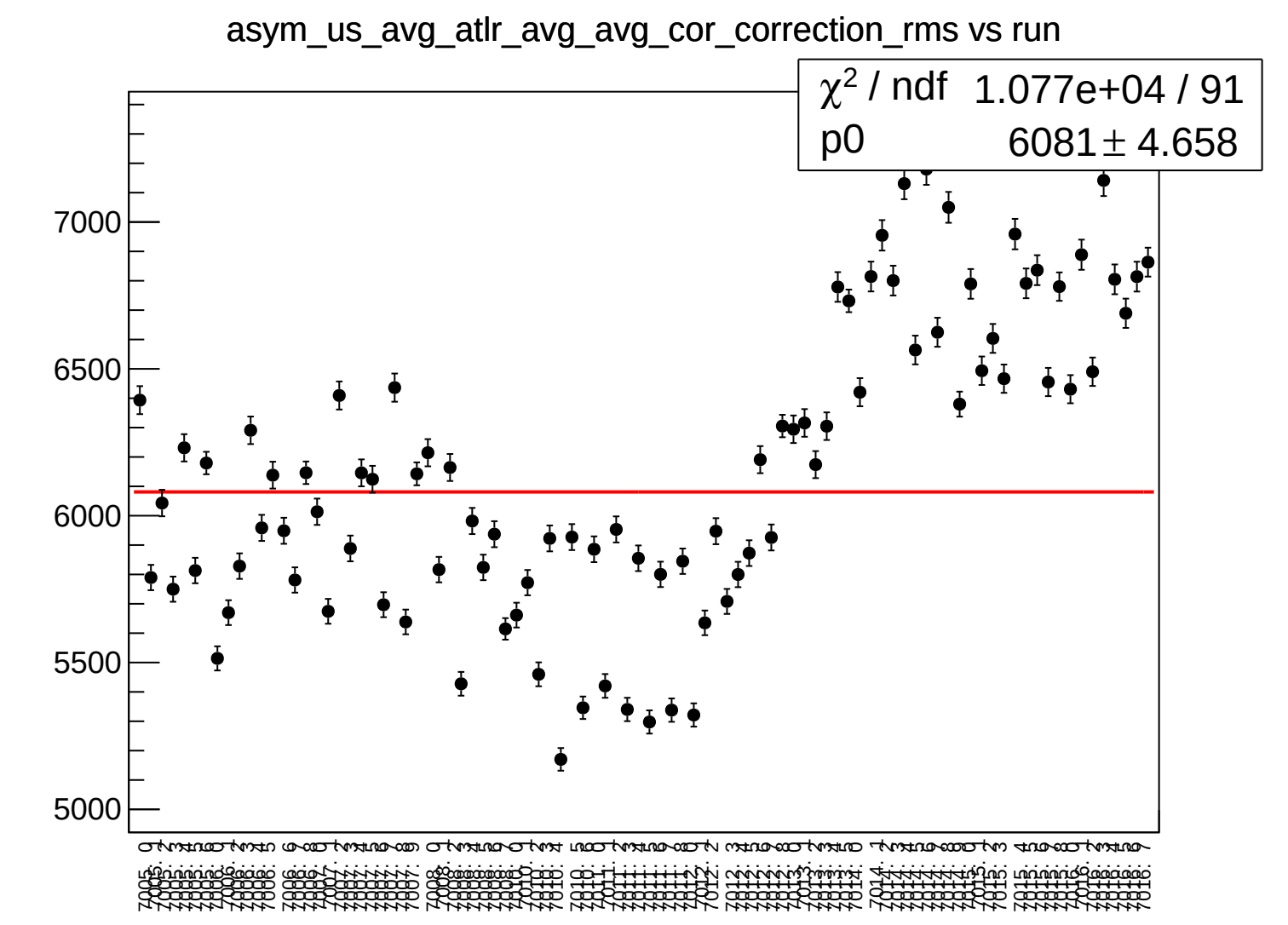

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.077e+04 / 91
p0 6081 ± 4.658
7000
6500
6000
5500
5000

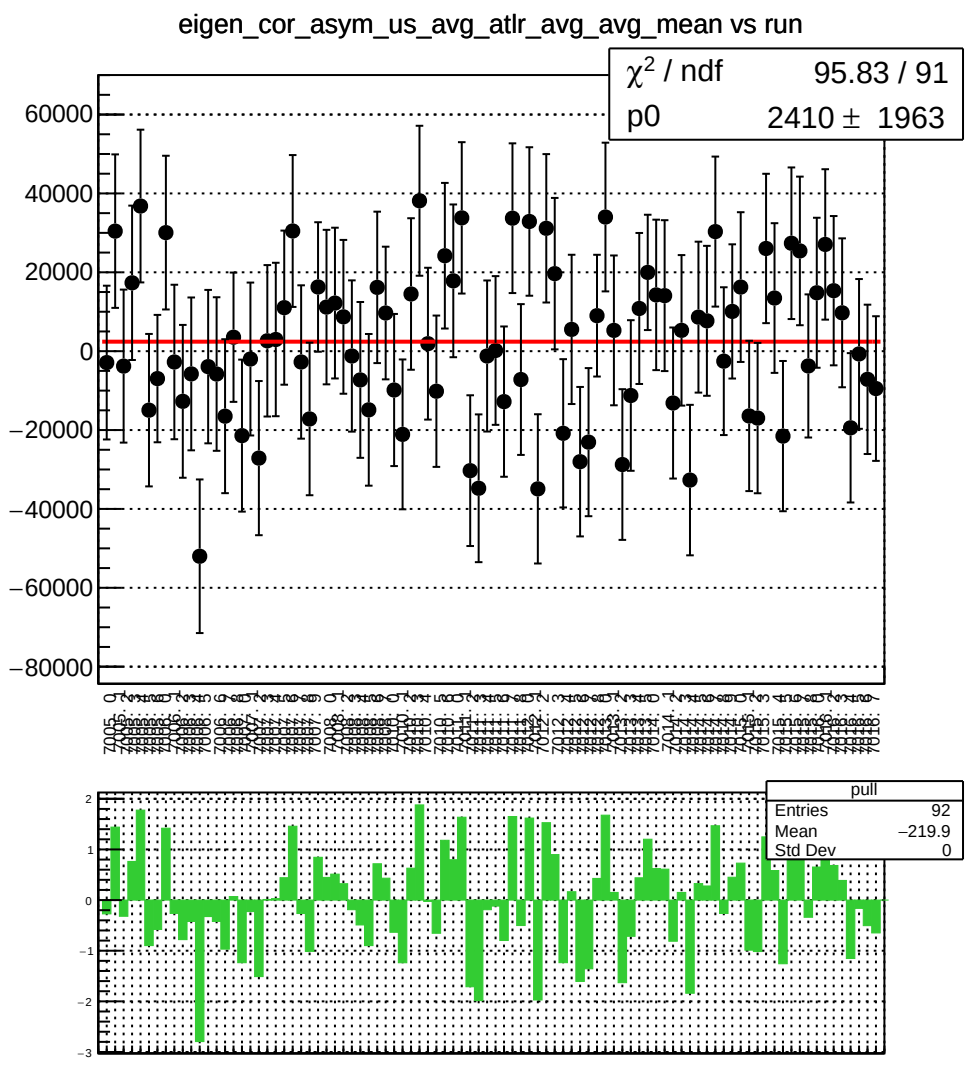

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 95.83 / 91
p0 2410 ± 1963
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −219.9
Std Dev 0
2
1
0
−1
−2
−3

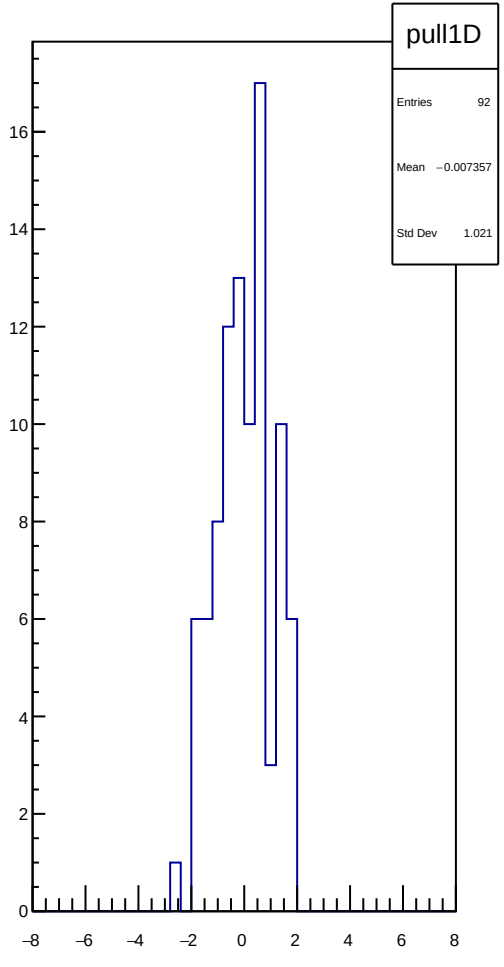

pull1D
Entries 92
Mean −0.007357
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

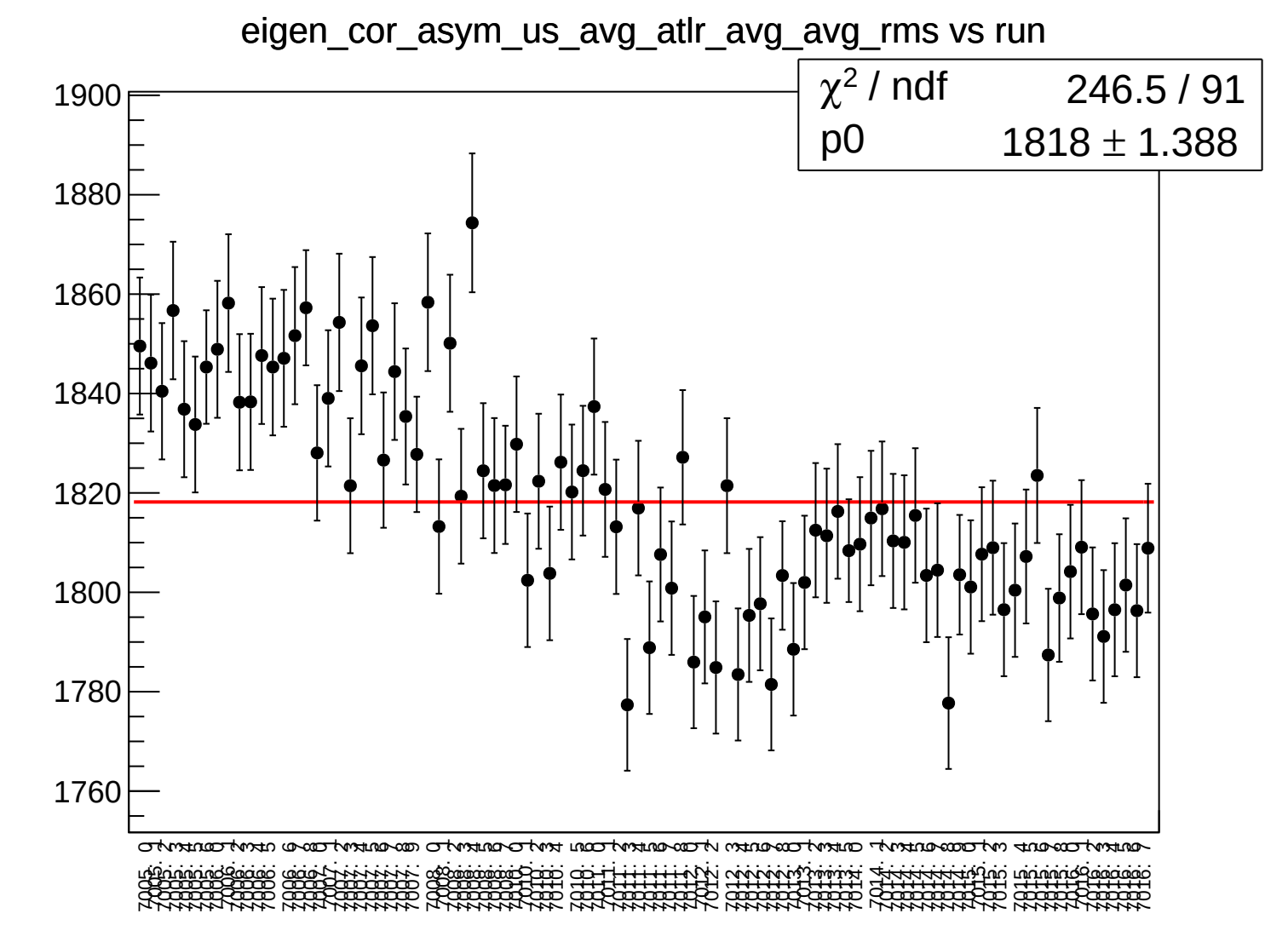

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 246.5 / 91
p0 1818 ± 1.388
1900
1880
1860
1840
1820
1800
1780
1760

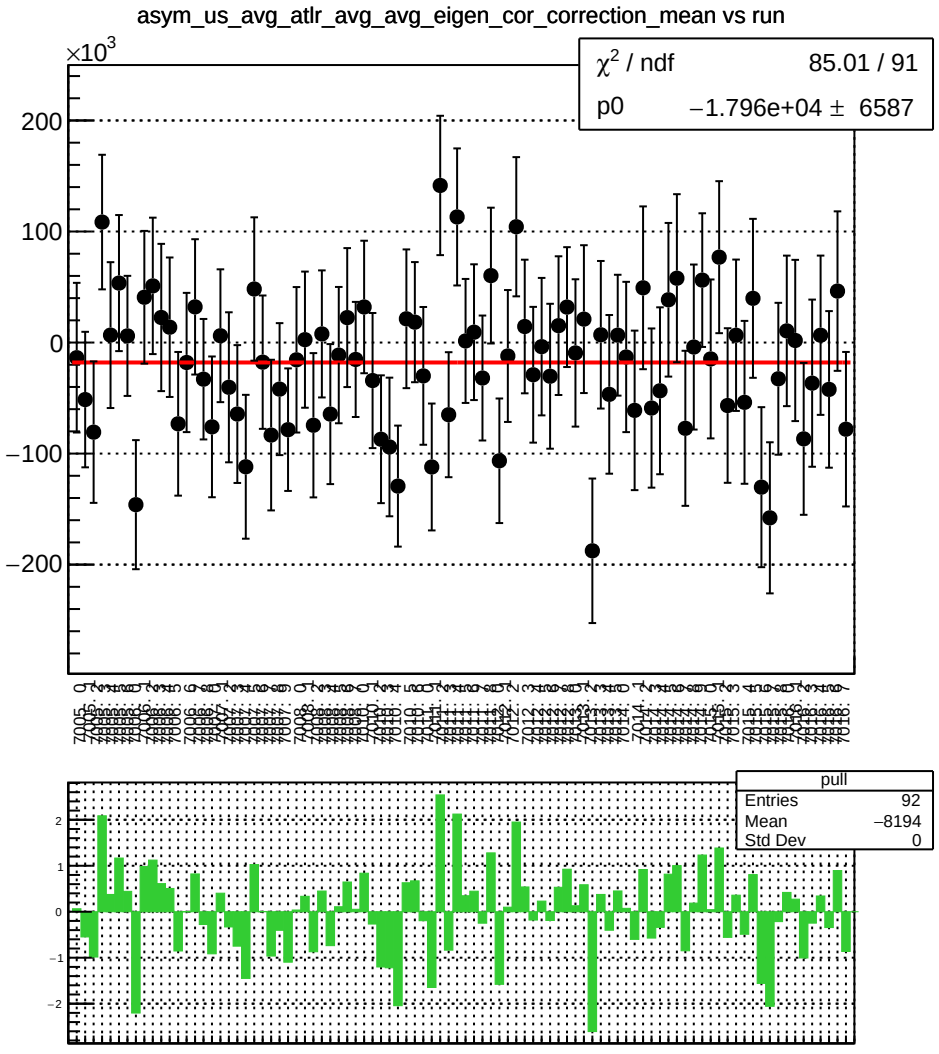

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.01 / 91
p0 −1.796e+04 ± 6587
pull
Entries 92
Mean −8194
Std Dev 0
pull1D
Entries 92
Mean 6.021e−05
Std Dev 0.9612

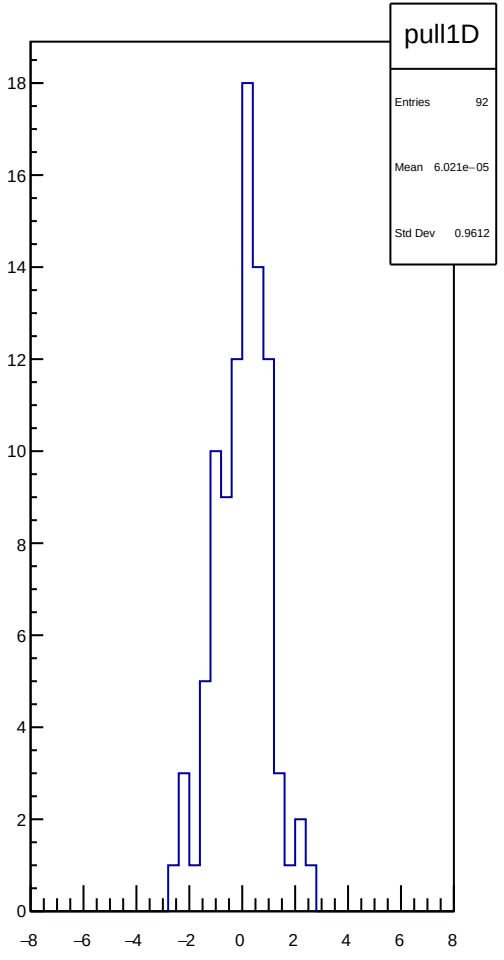

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.077e+04 / 91
p0 6081 ± 4.658
7000
6500
6000
5500
5000

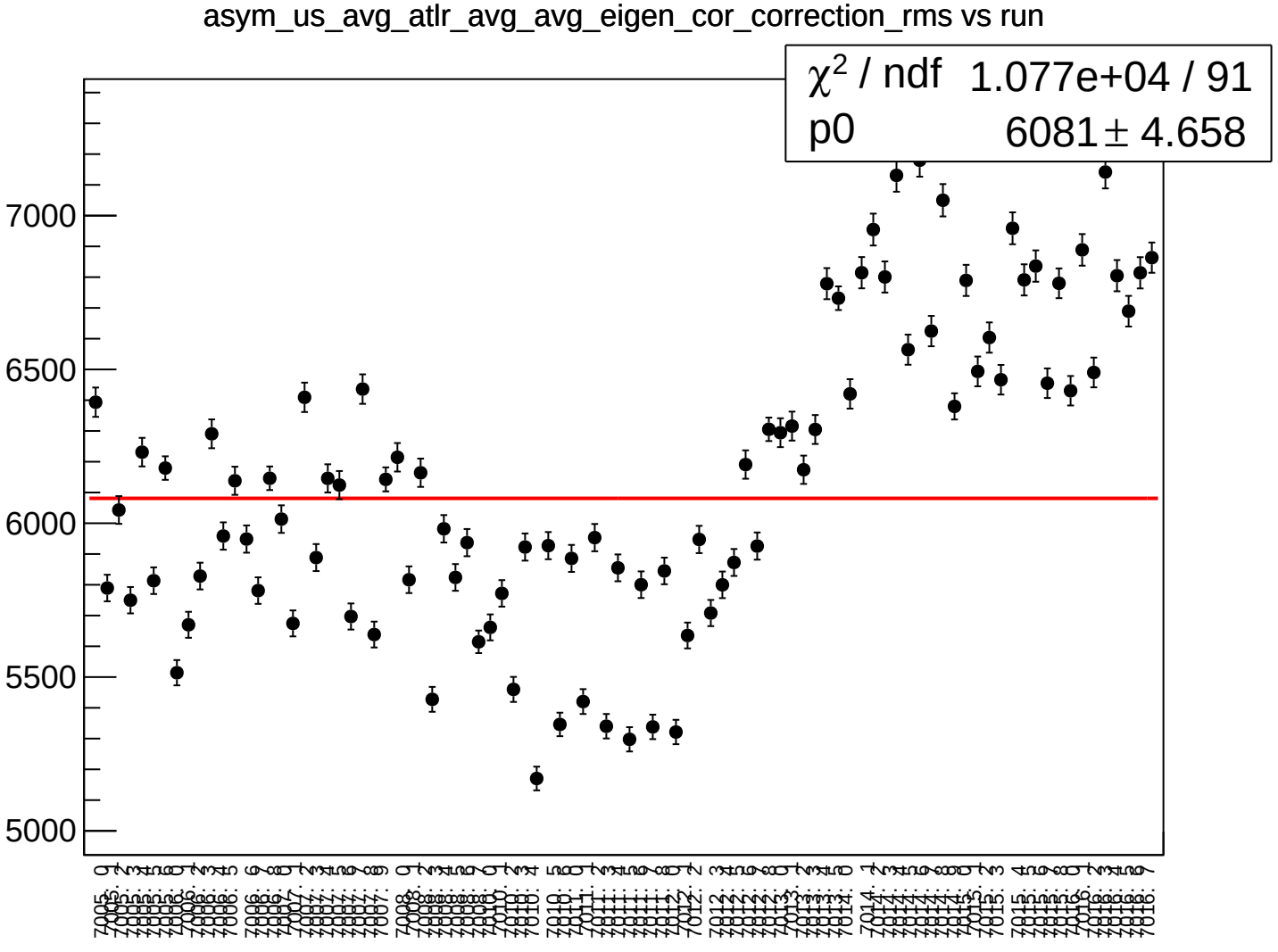

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 95.83 / 91
p0 2410 ± 1963
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −219.9
Std Dev 0
2
1
0
−1
−2
−3

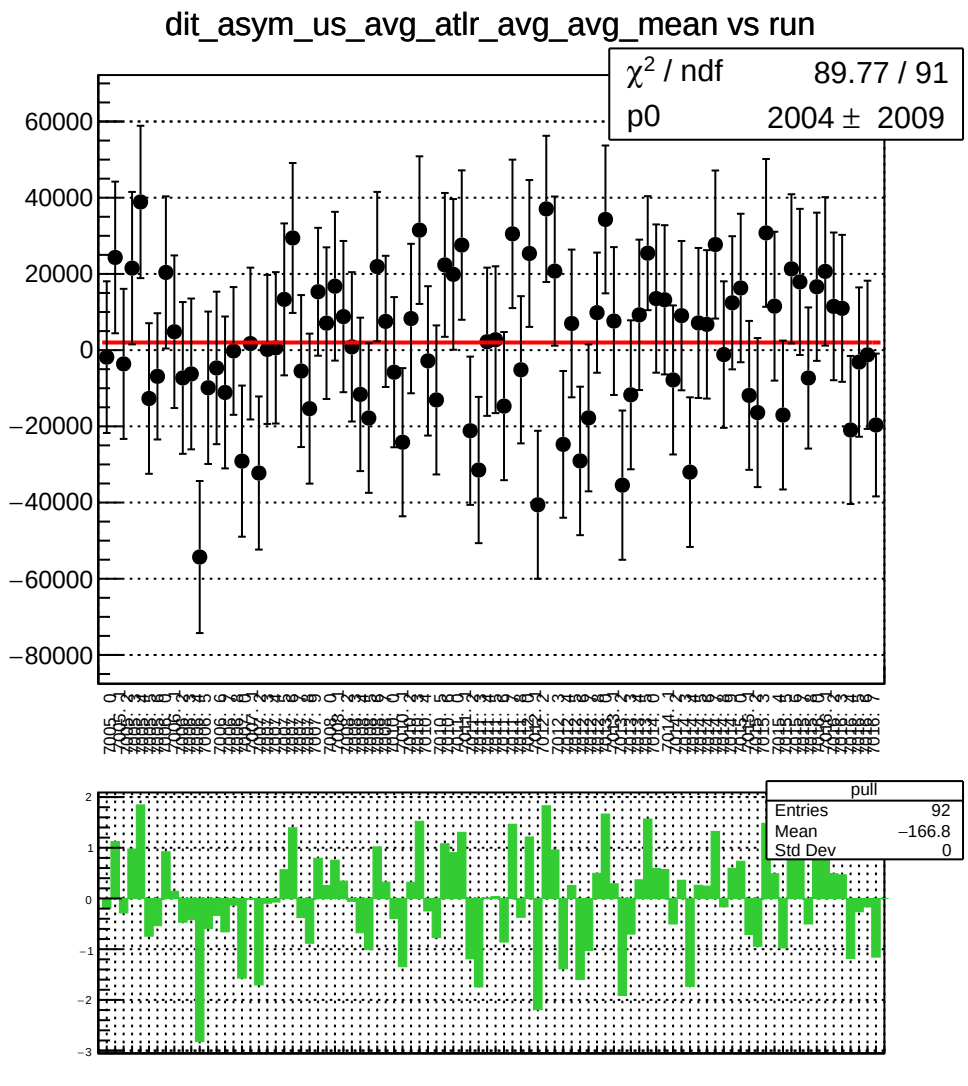

pull1D
Entries 92
Mean −0.007357
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

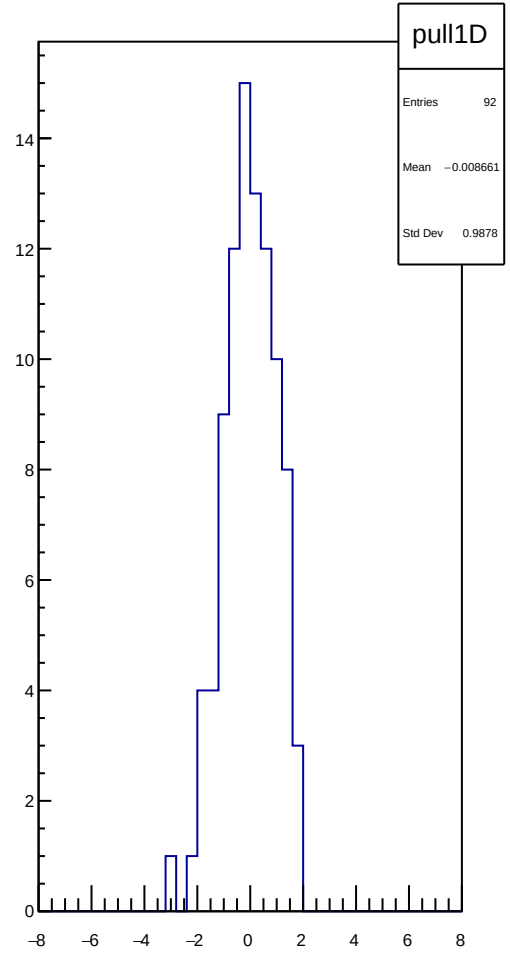

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 246.5 / 91
p0 1818 ± 1.388
1900
1880
1860
1840
1820
1800
1780
1760

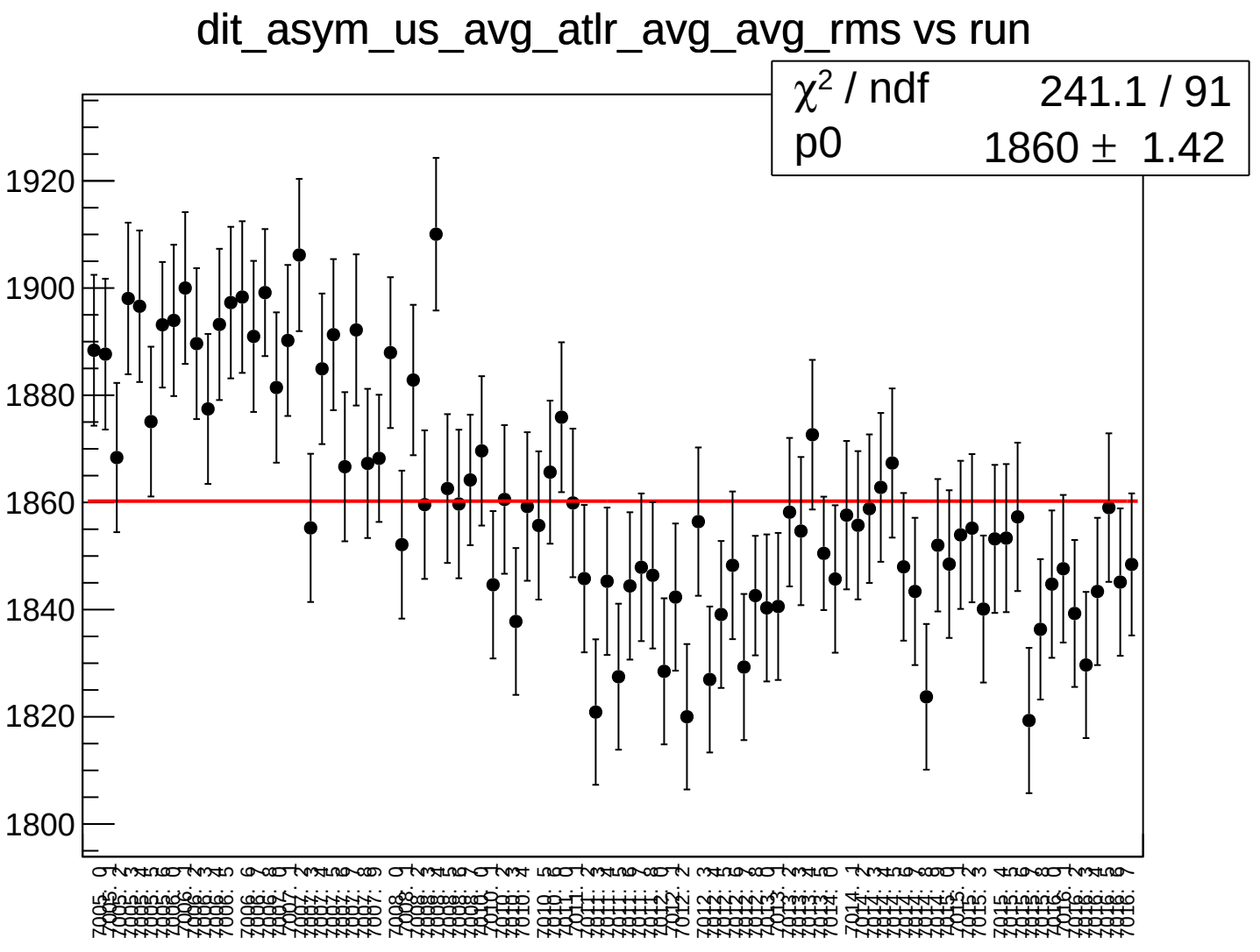

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.01 / 91
p0 −1.796e+04 ± 6587
200
100
0
−100
−200
pull
Entries 92
Mean −8194
Std Dev 0
2
1
0
−1
−2

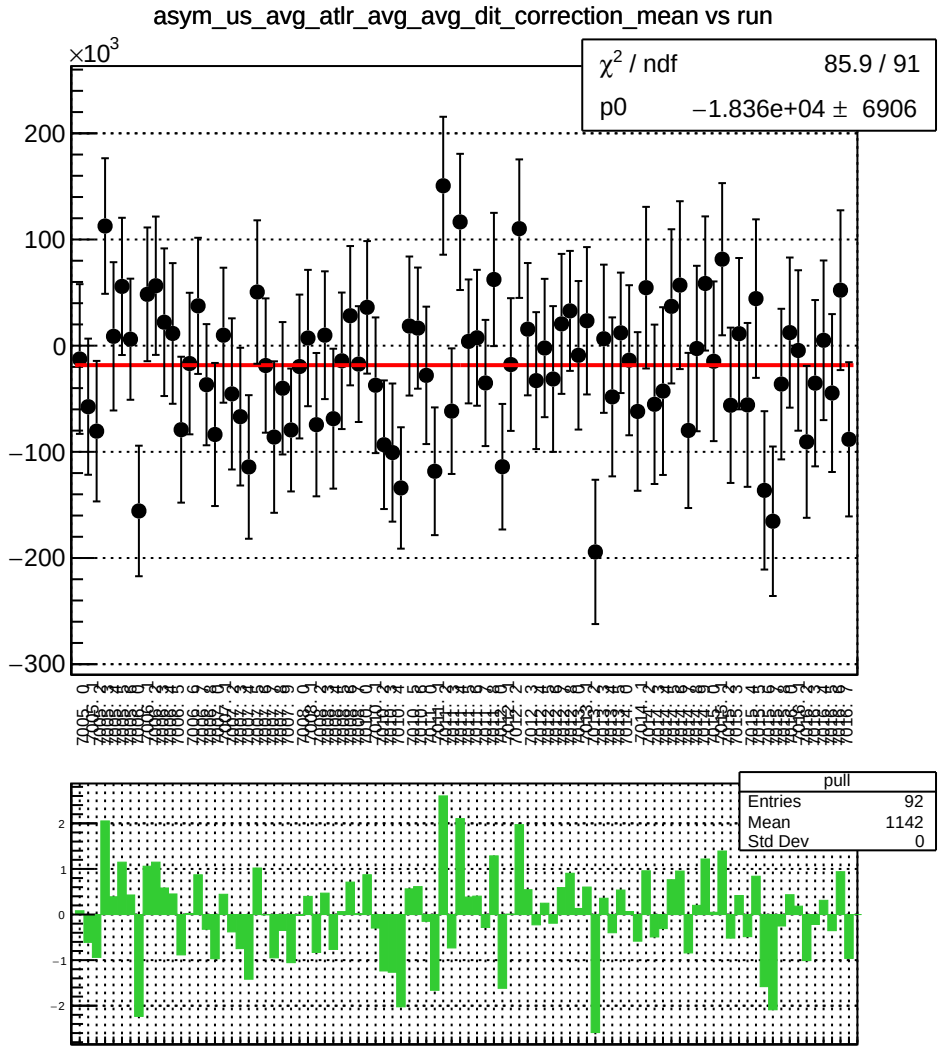

pull1D
Entries 92
Mean 6.021e−05
Std Dev 0.9612
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

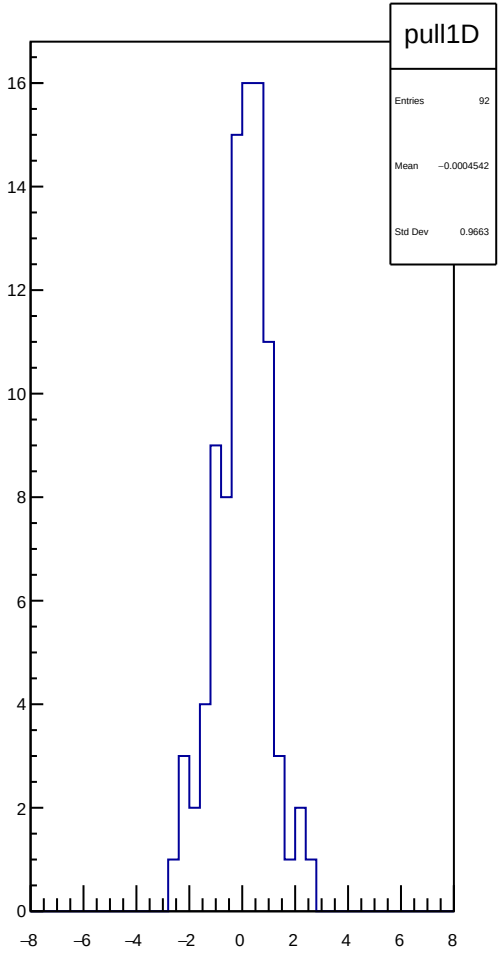

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.077e+04 / 91
p0 6081 ± 4.658
7000
6500
6000
5500
5000

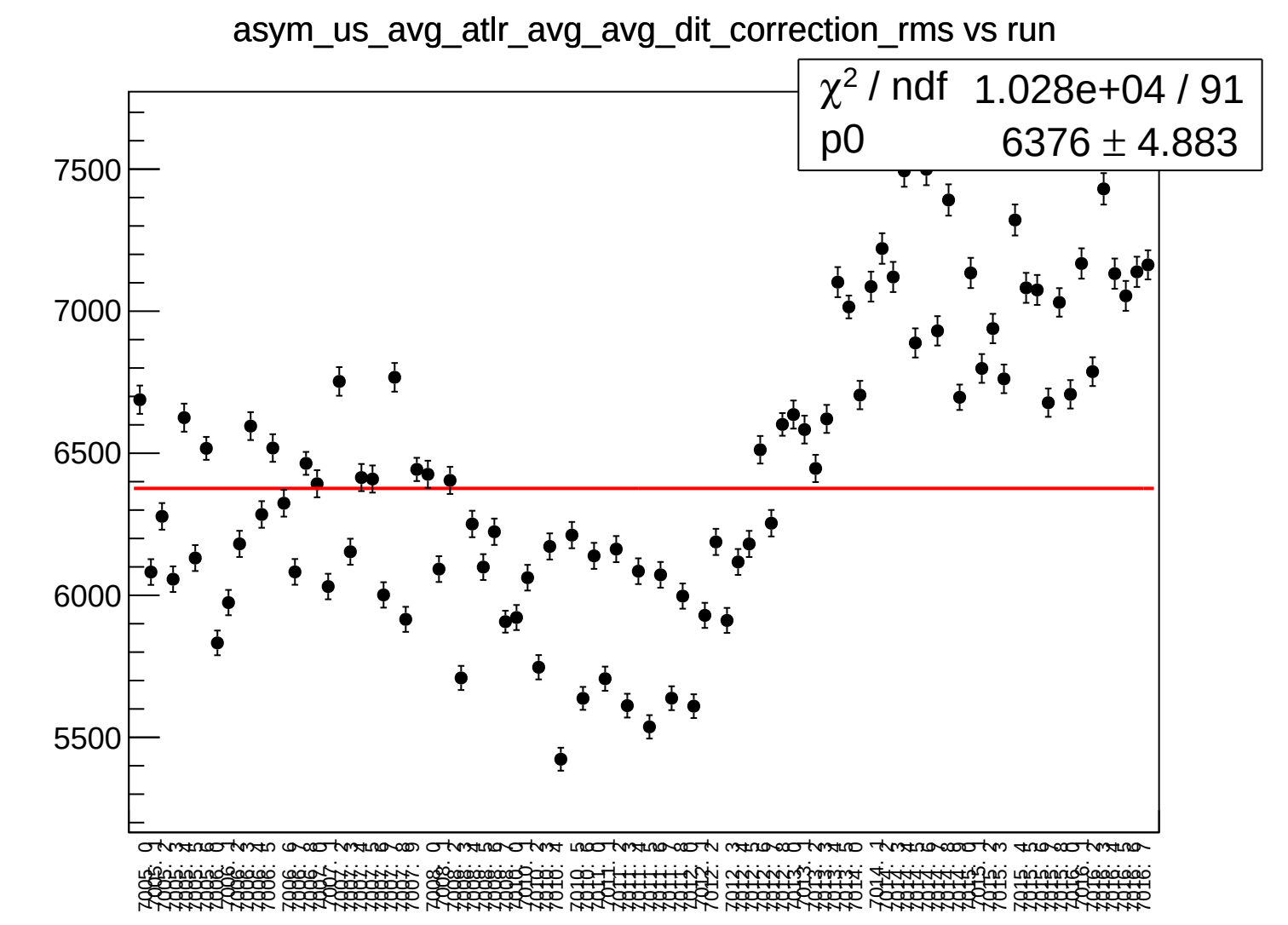

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 89.77 / 91
p0 2004 ± 2009
pull
Entries 92
Mean −166.8
Std Dev 0

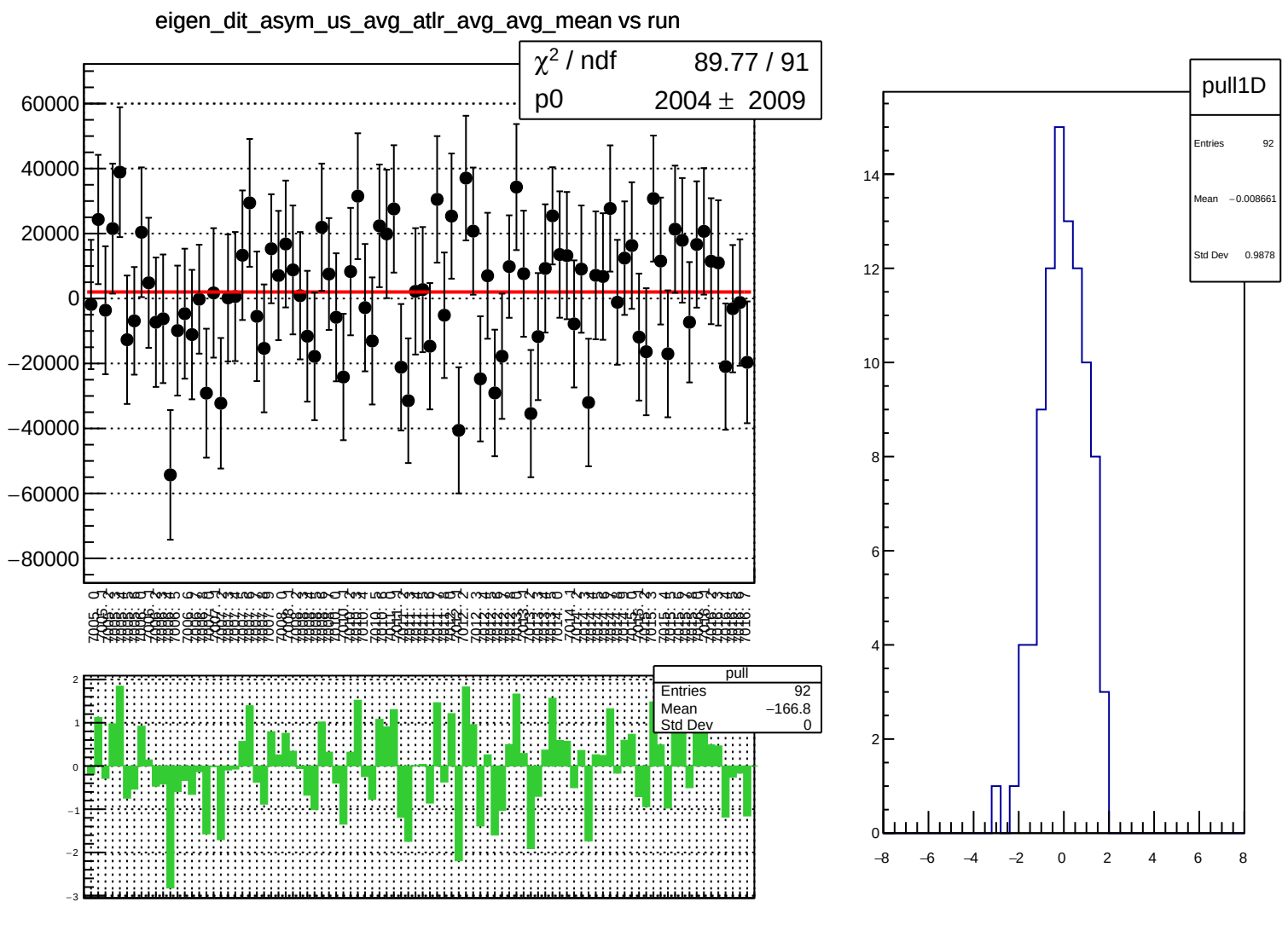

pull1D
Entries 92
Mean −0.008661
Std Dev 0.9878

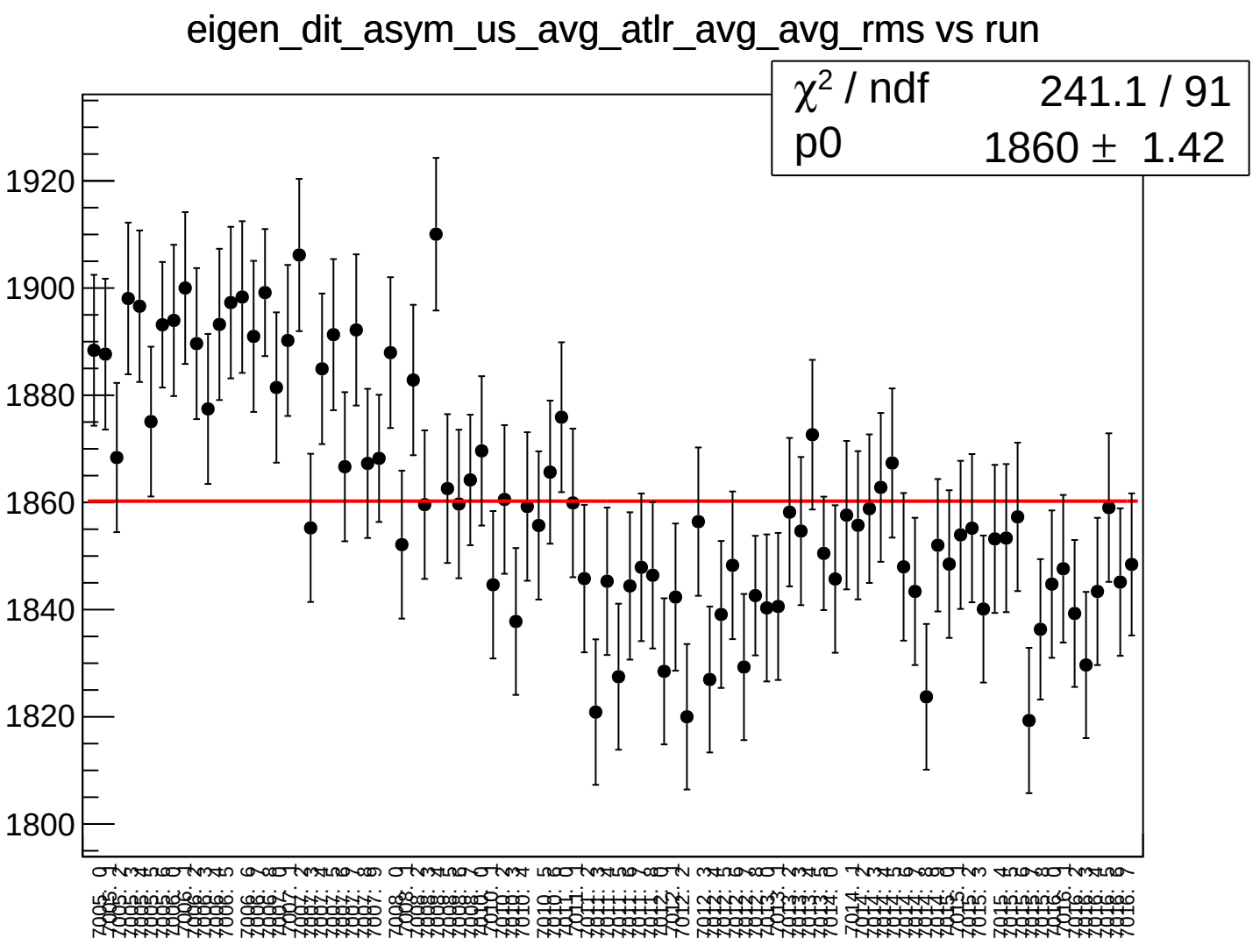

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 241.1 / 91
p0 1860 ± 1.42
1920
1900
1880
1860
1840
1820
1800

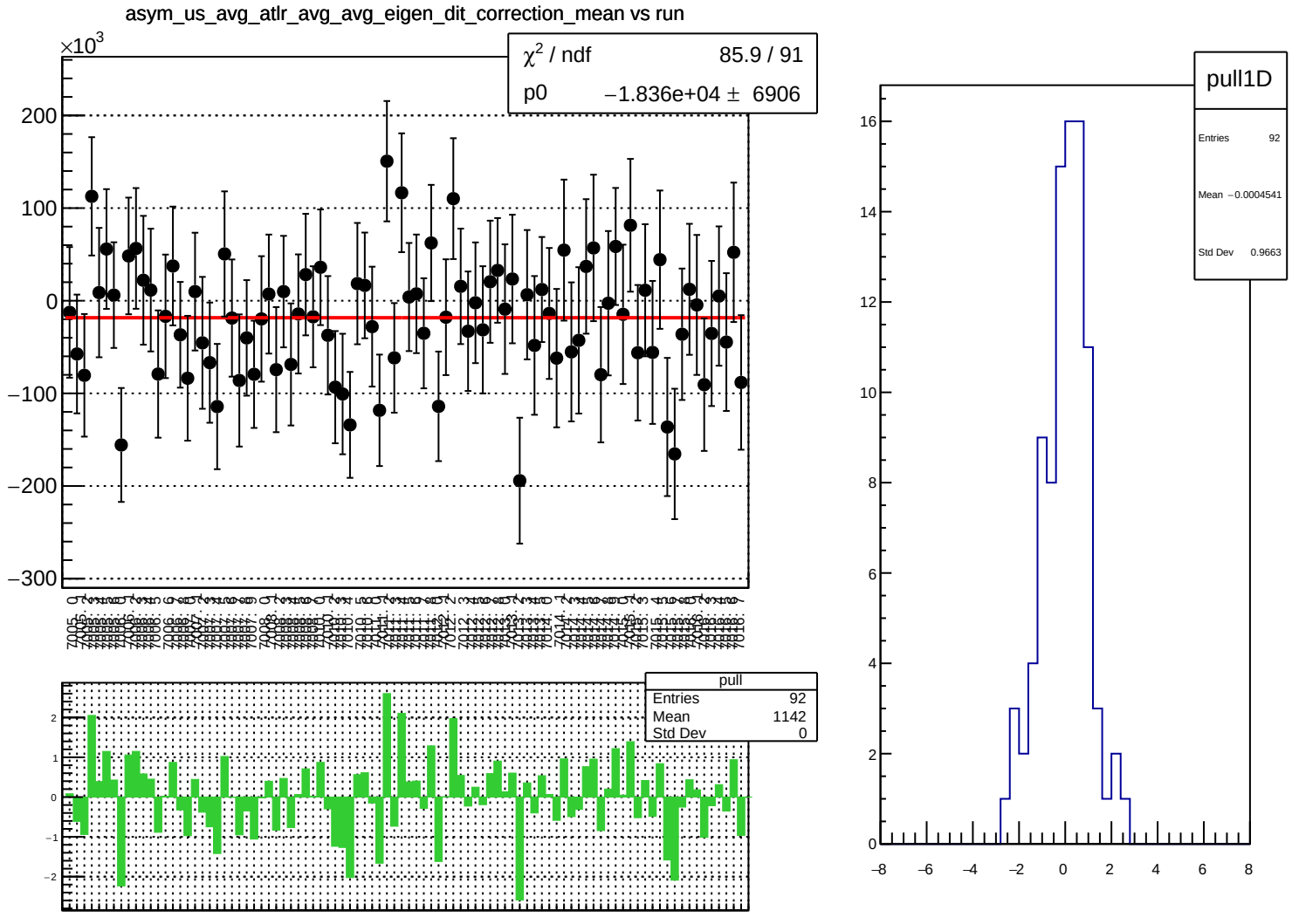

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.9 / 91
p0 −1.836e+04 ± 6906
200
100
0
−100
−200
−300
pull
Entries 92
Mean 1142
Std Dev 0
2
1
0
−1
−2

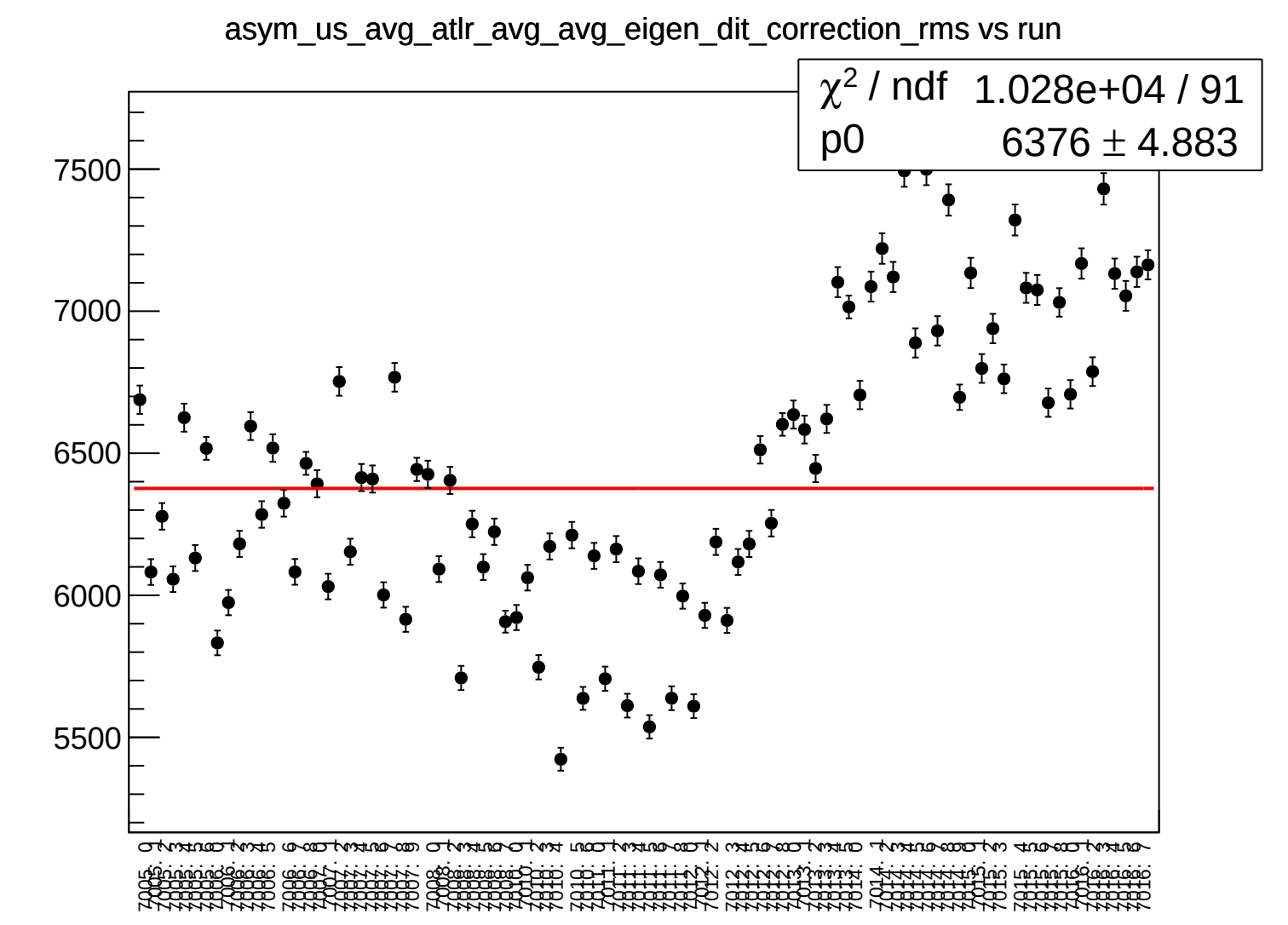

pull1D
Entries 92
Mean −0.0004542
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

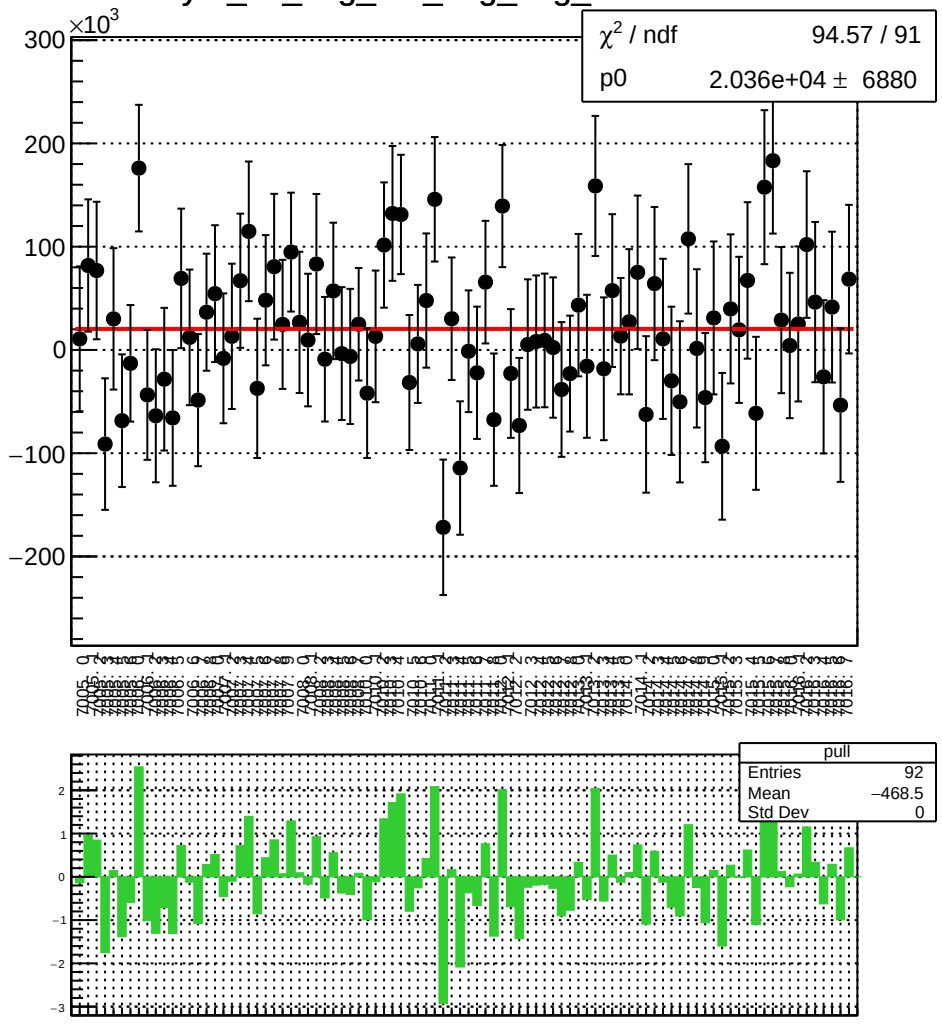

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.028e+04 / 91
p0 6376 ± 4.883
7500
7000
6500
6000
5500

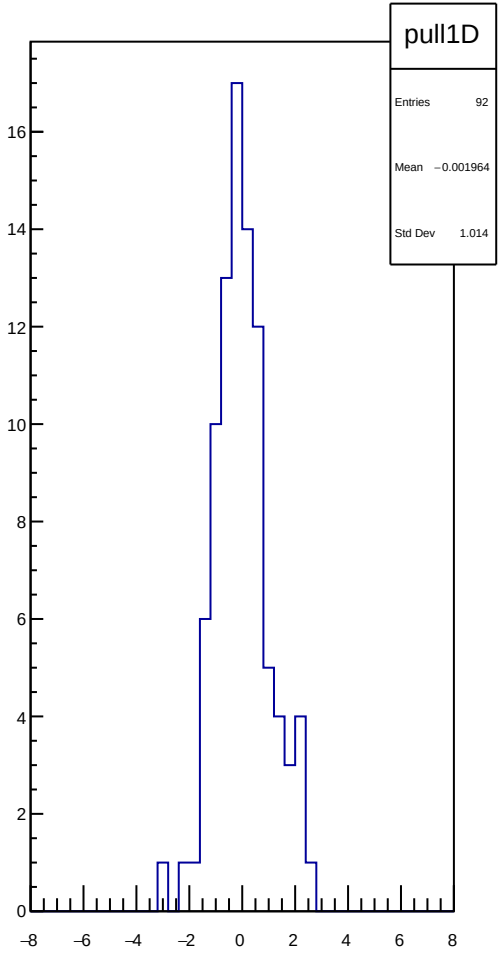

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 89.77 / 91
p0 2004 ± 2009
pull
Entries 92
Mean −166.8
Std Dev 0
pull1D
Entries 92
Mean −0.008661
Std Dev 0.9878

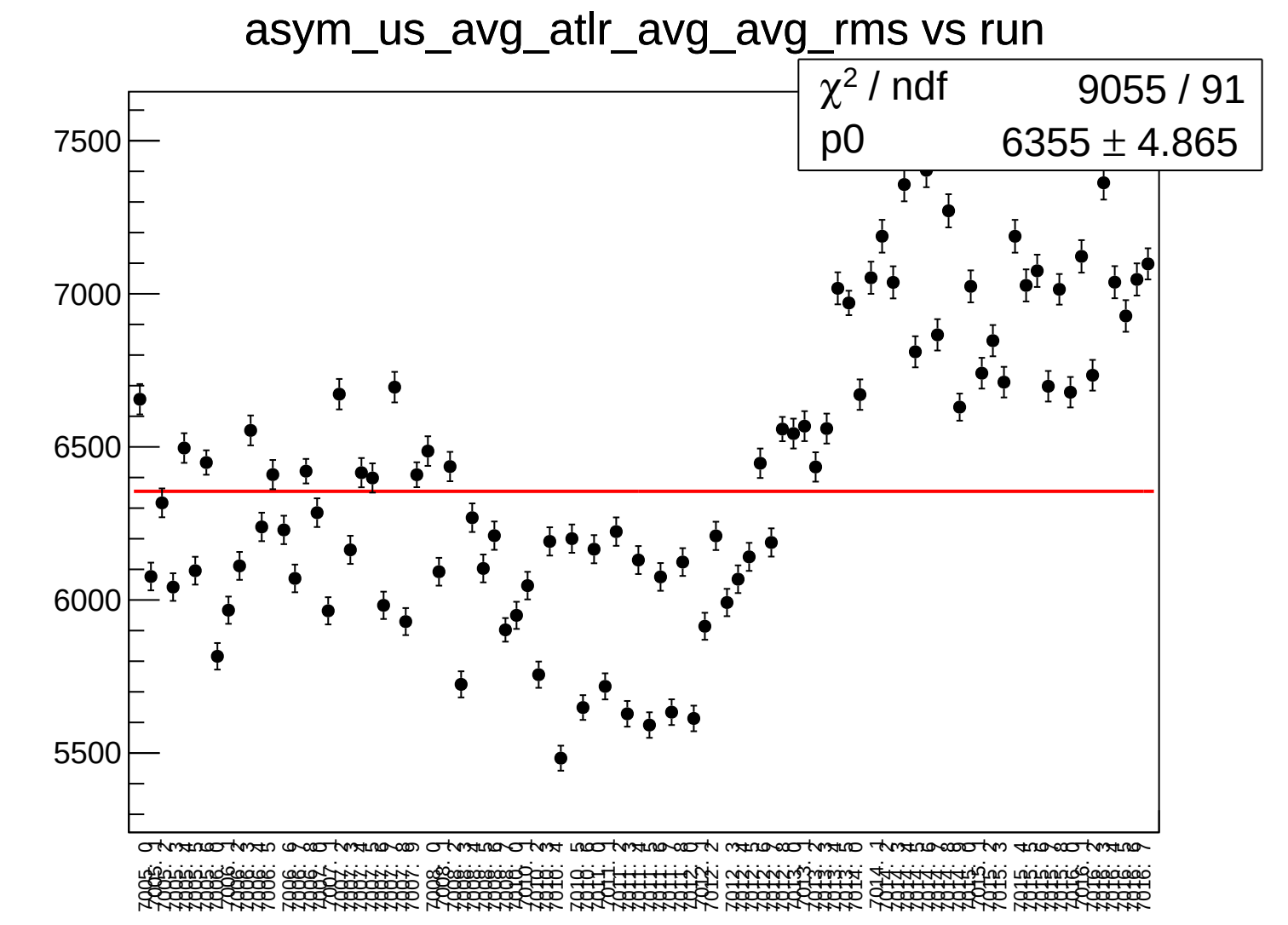

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 241.1 / 91
p0 1860 ± 1.42
1920
1900
1880
1860
1840
1820
1800

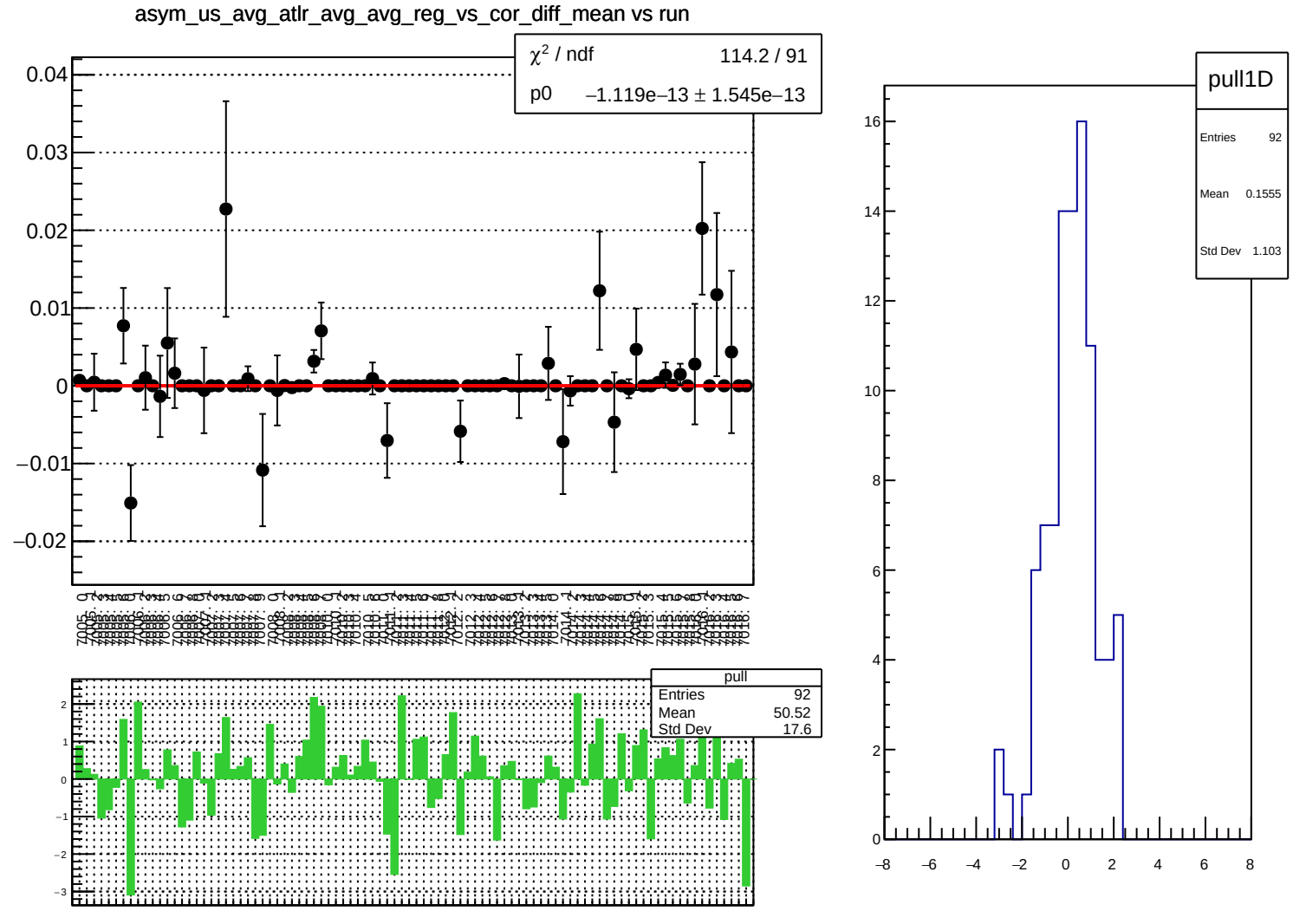

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.9 / 91
p0 −1.836e+04 ± 6906
200
100
0
−100
−200
−300
pull
Entries 92
Mean 1142
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0004541
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

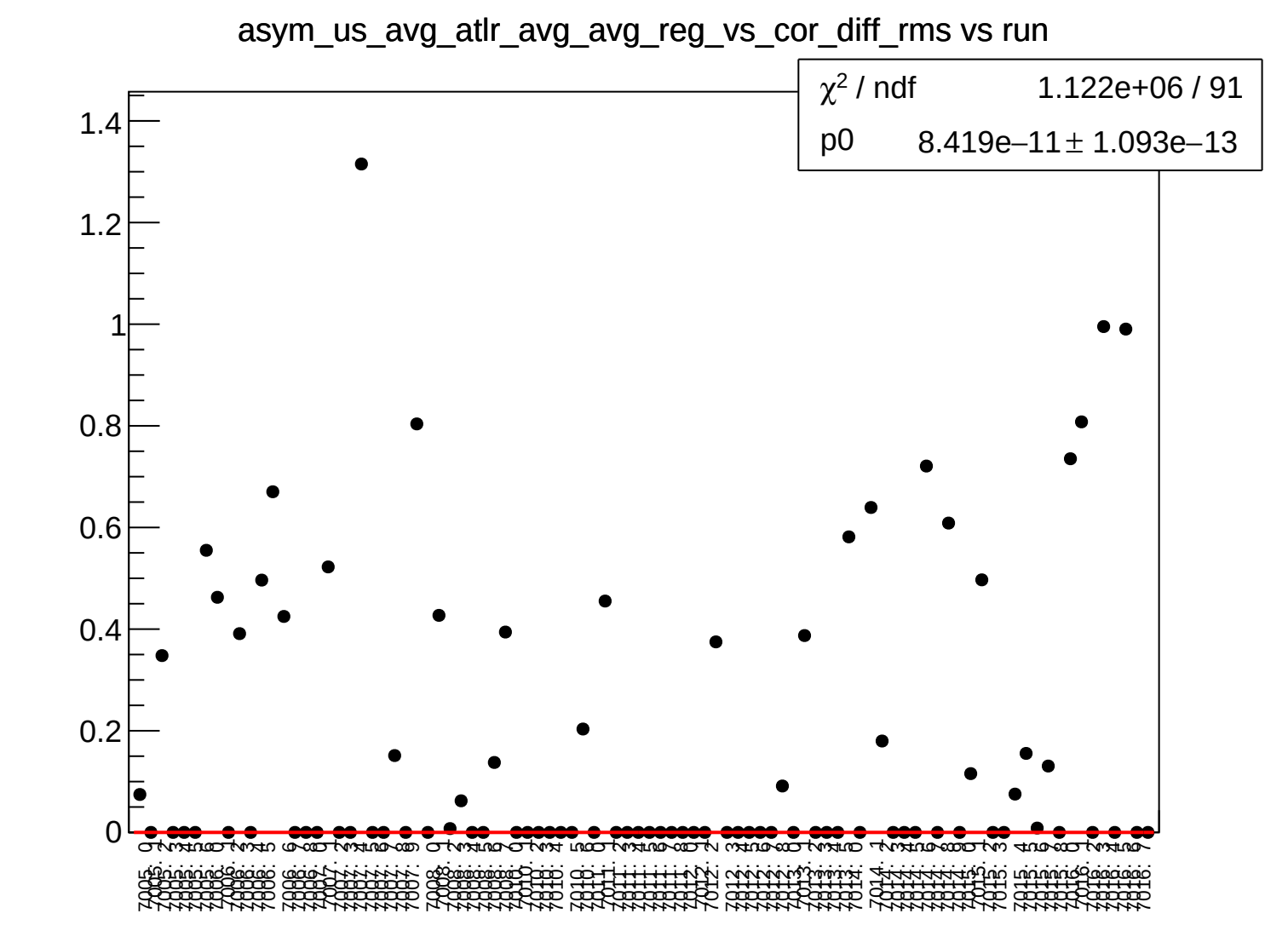

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.028e+04 / 91
p0 6376 ± 4.883
7500
7000
6500
6000
5500

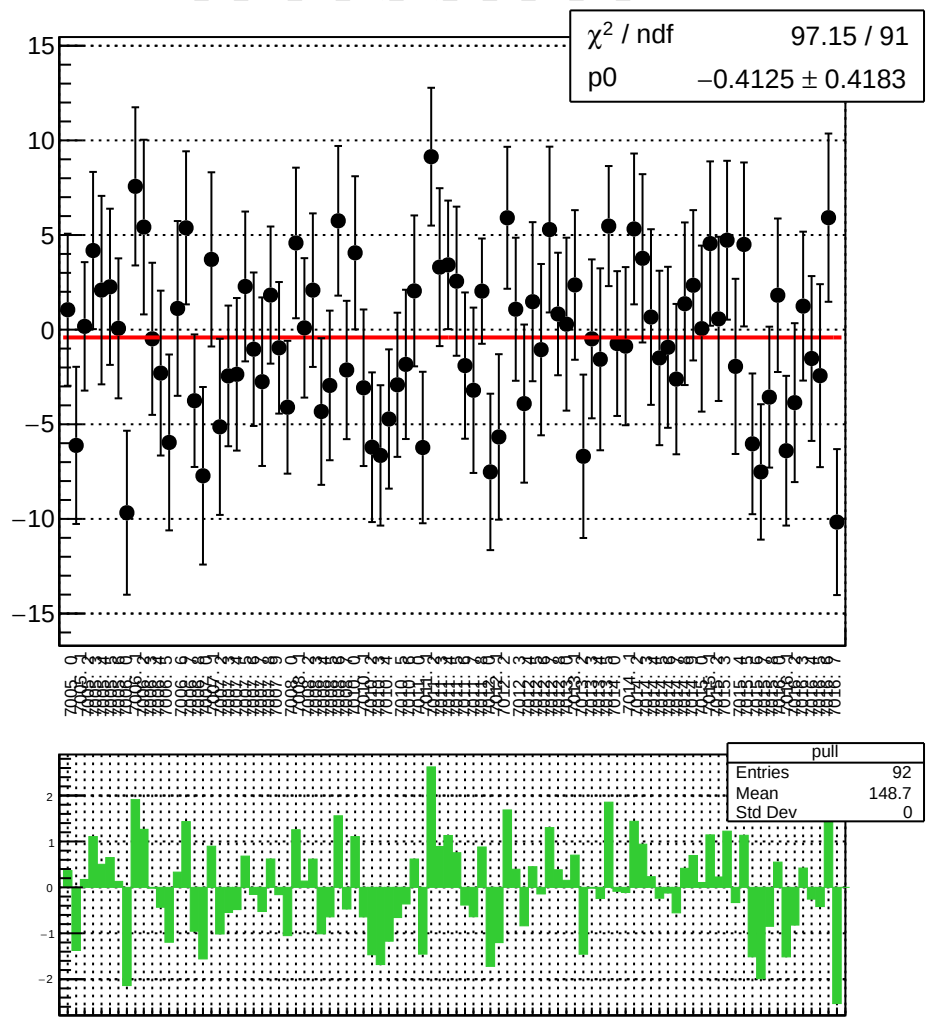

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 94.57 / 91
p0 2.036e+04 ± 6880
pull
Entries 92
Mean −468.5
Std Dev 0

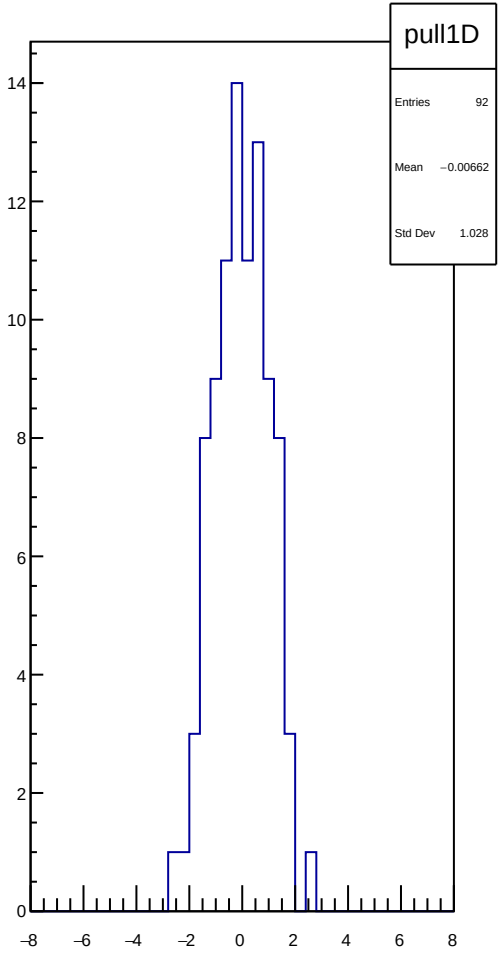

pull1D
Entries 92
Mean −0.001964
Std Dev 1.014

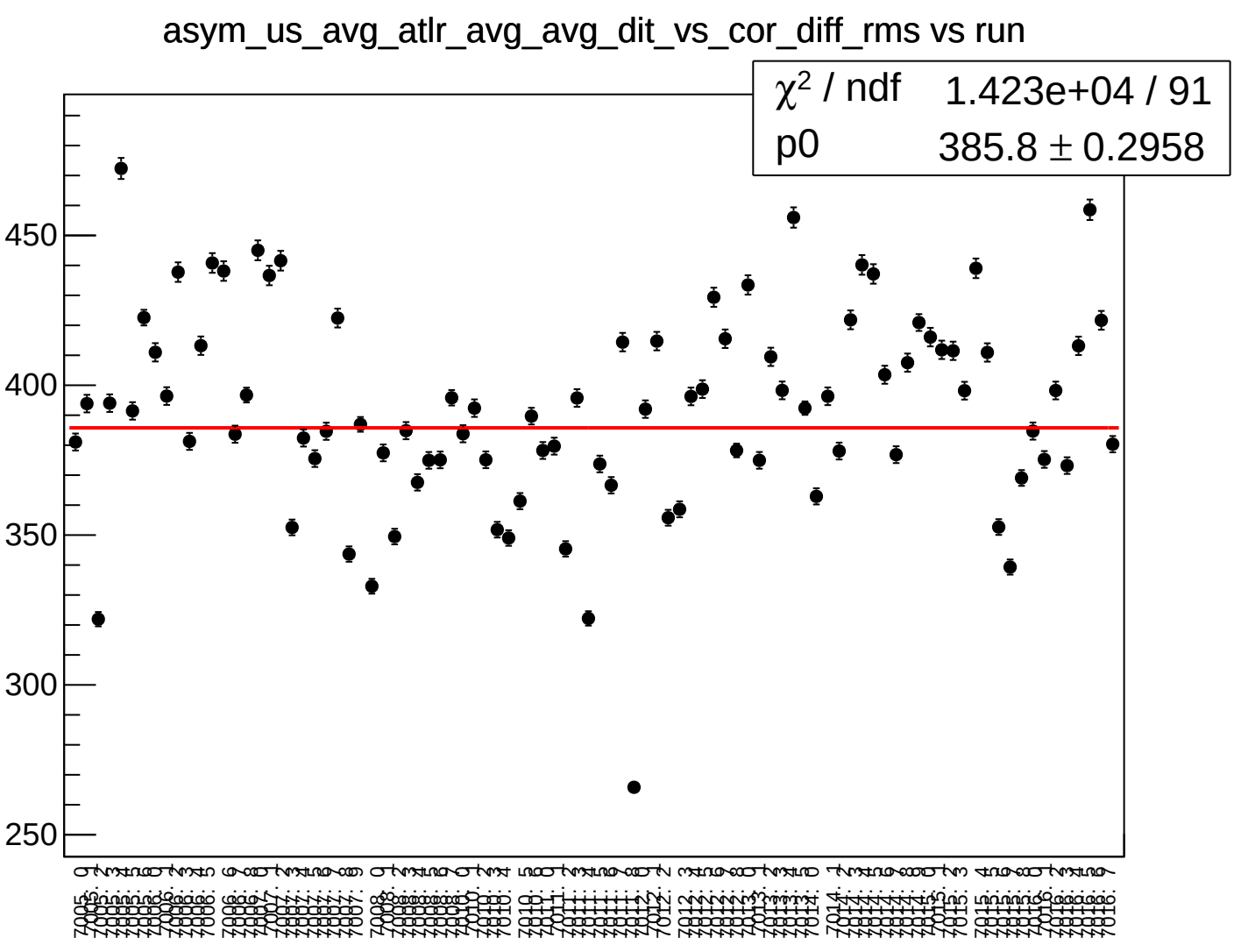

asym_us_avg_atlr_avg_avg_rms vs run
$\chi^2$ / ndf 9055 / 91
p0 6355 ± 4.865
7500
7000
6500
6000
5500

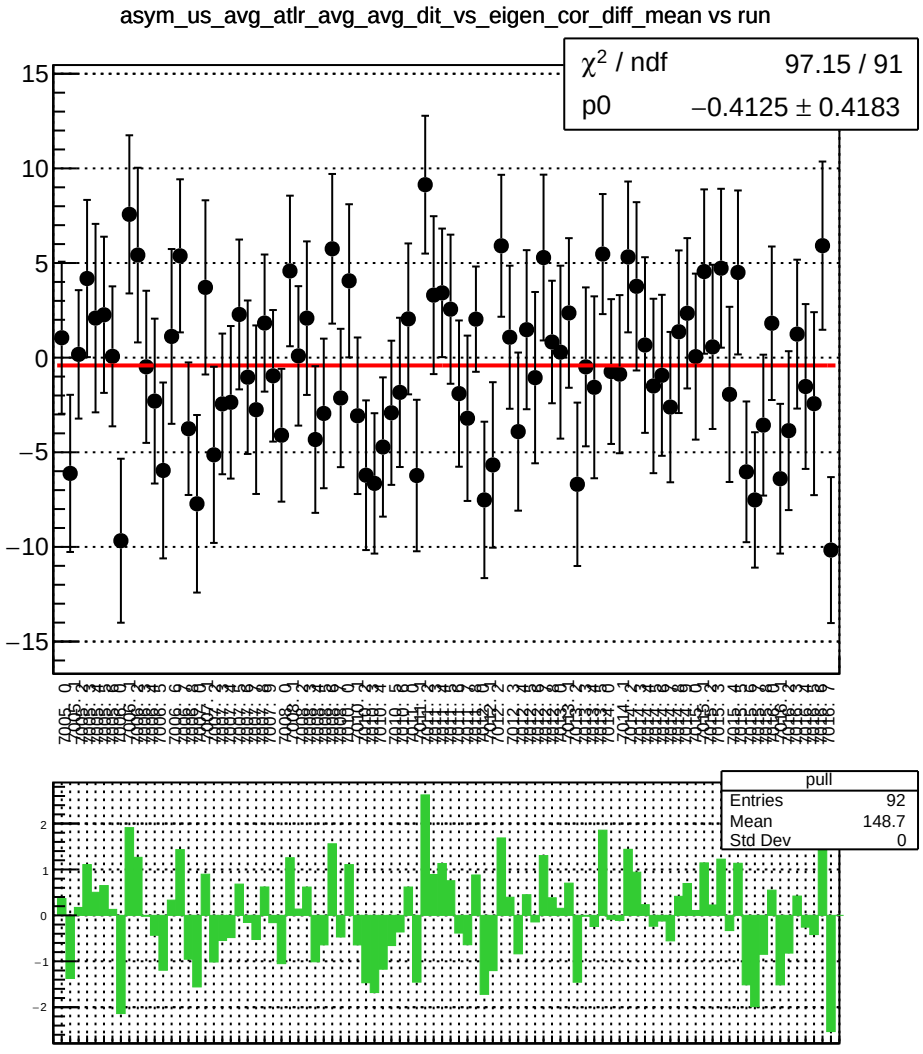

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114.2 / 91
p0 −1.119e−13 ± 1.545e−13
pull
Entries 92
Mean 50.52
Std Dev 17.6
pull1D
Entries 92
Mean 0.1555
Std Dev 1.103

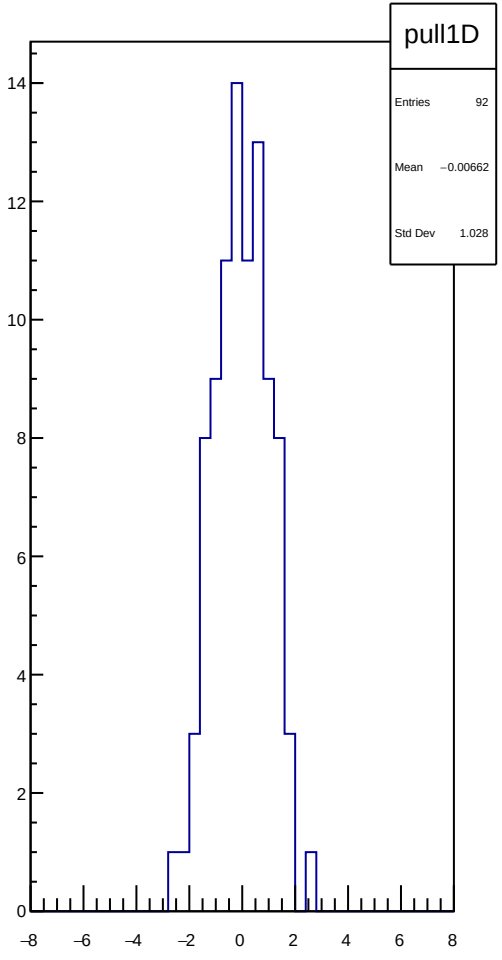

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.122e+06 / 91
p0 8.419e−11 ± 1.093e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

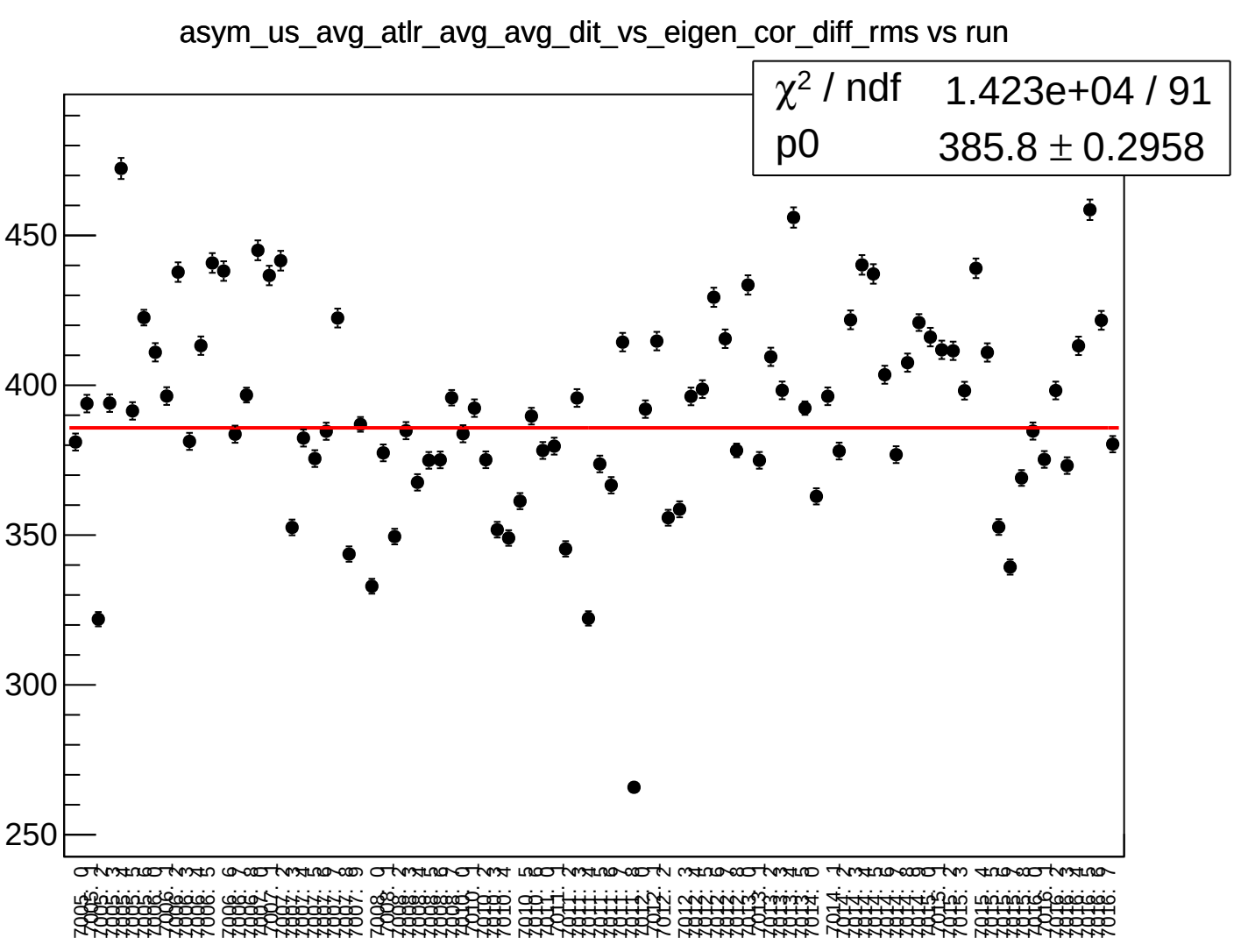

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.15 / 91
p0 −0.4125 ± 0.4183
pull
Entries 92
Mean 148.7
Std Dev 0

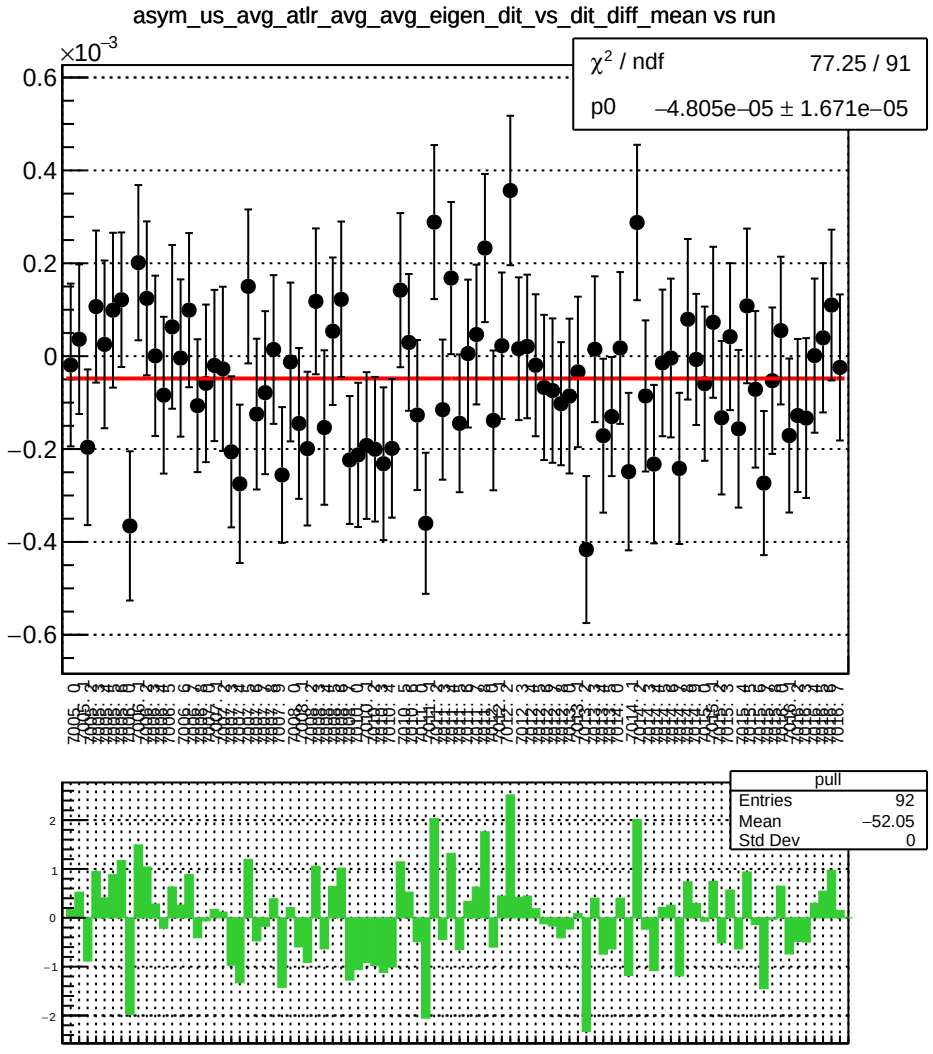

pull1D
Entries 92
Mean −0.00662
Std Dev 1.028

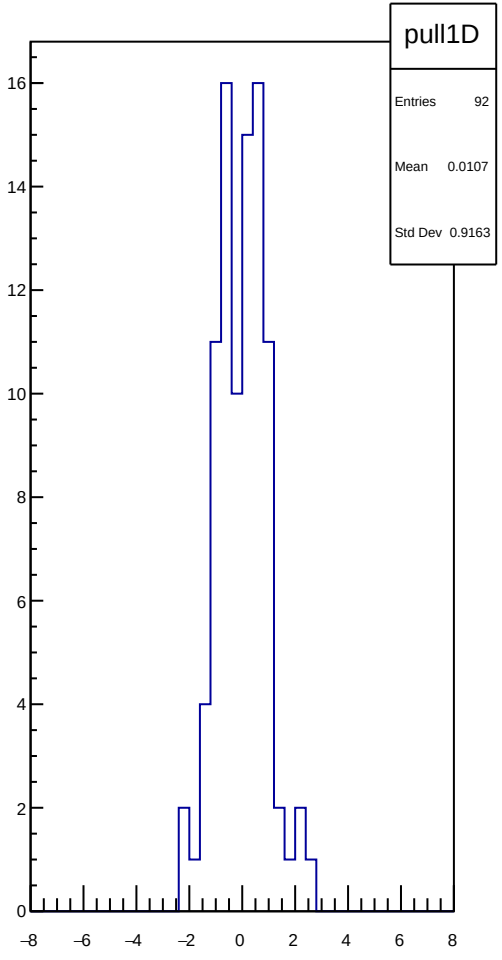

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.423e+04 / 91
p0 385.8 ± 0.2958
450
400
350
300
250

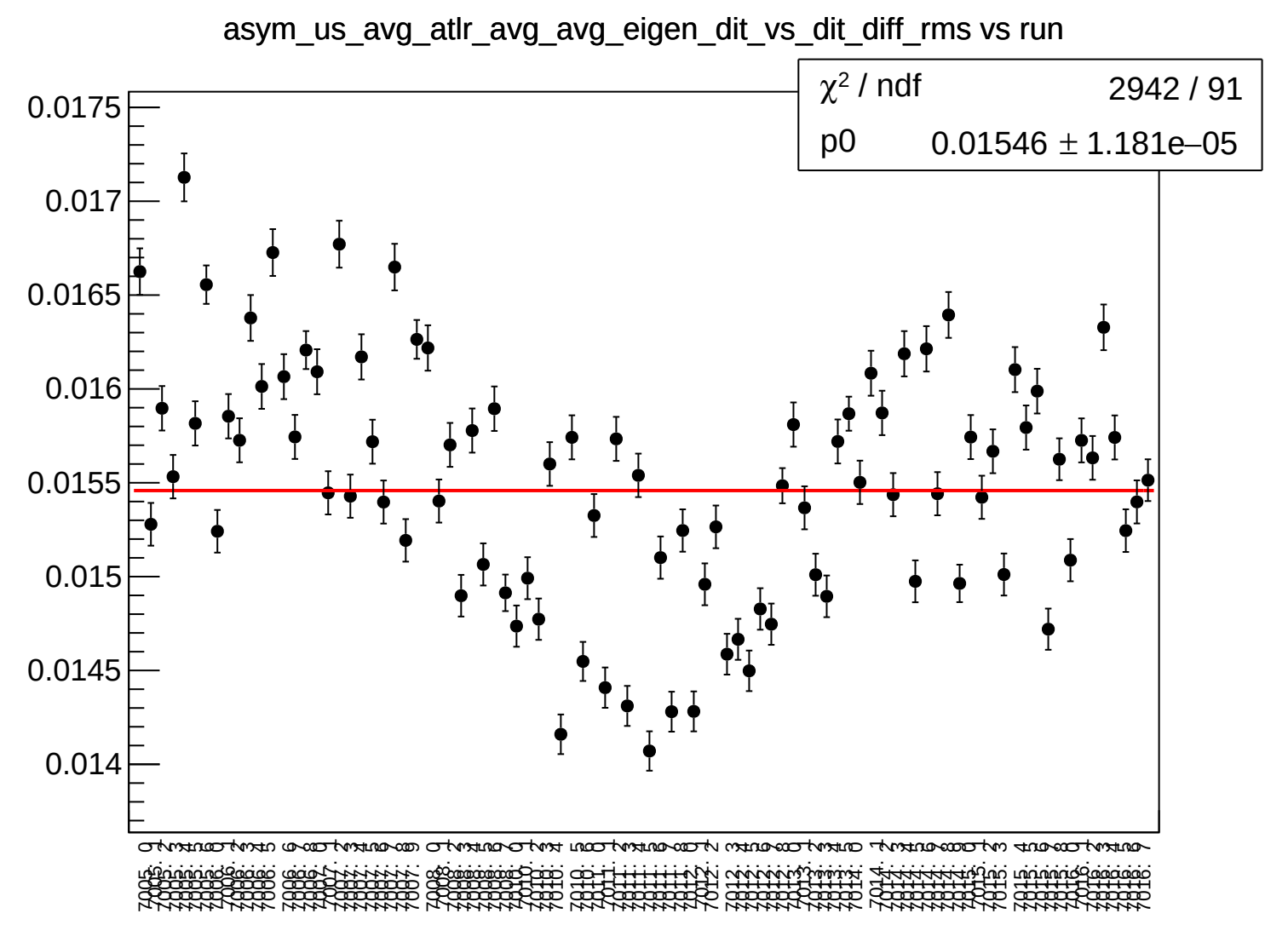

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.15 / 91
p0 −0.4125 ± 0.4183
pull
Entries 92
Mean 148.7
Std Dev 0

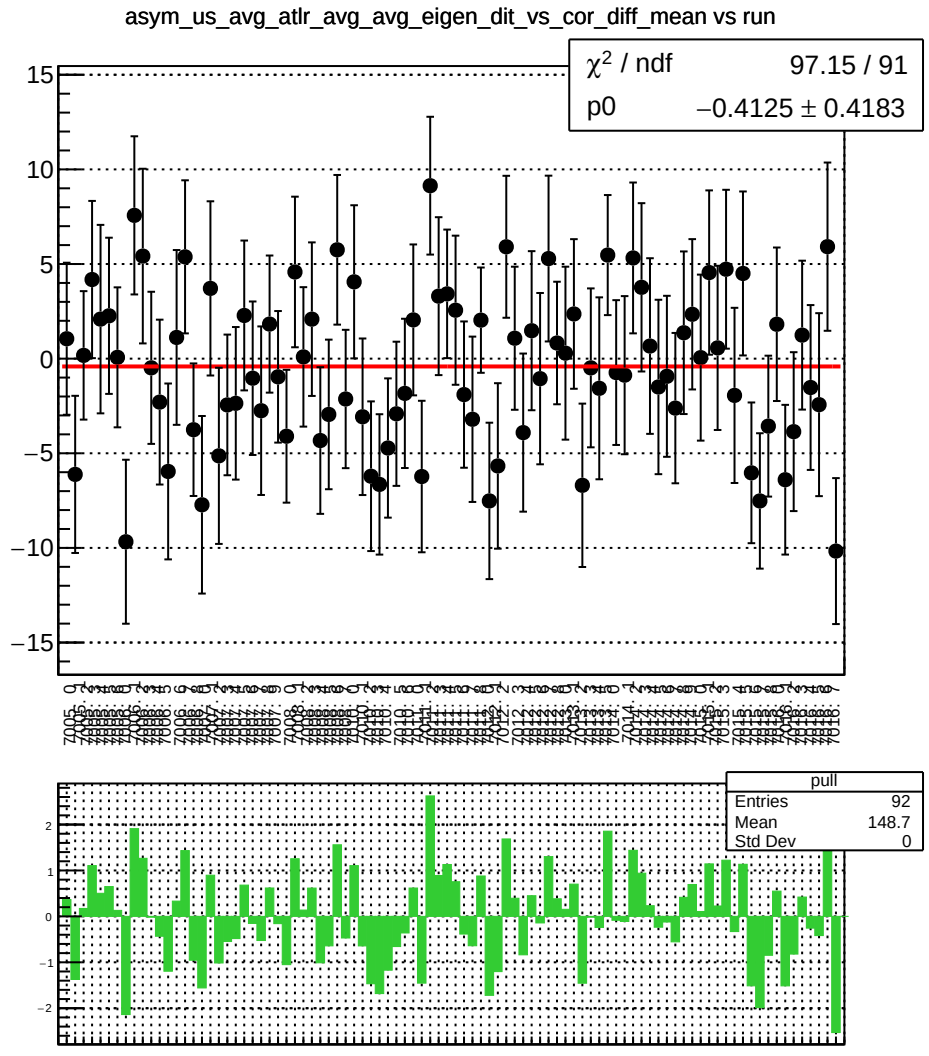

pull1D
Entries 92
Mean −0.00662
Std Dev 1.028

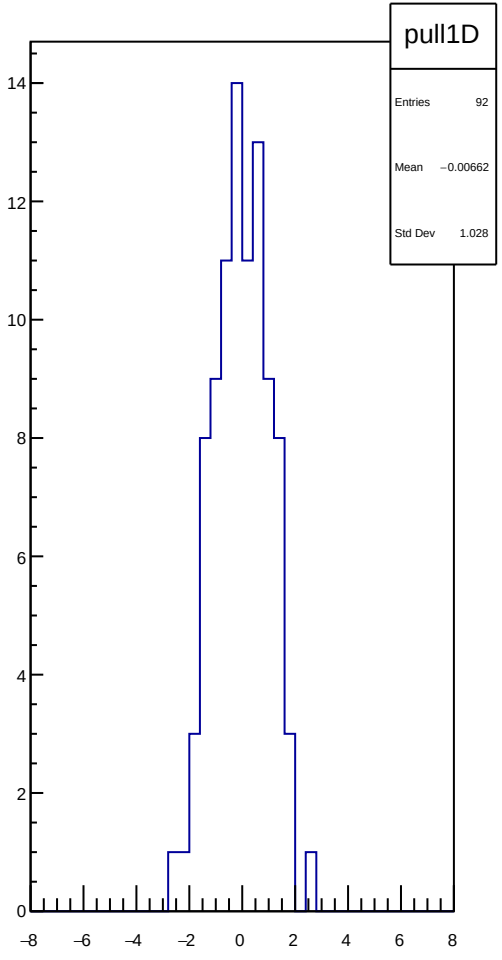

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.423e+04 / 91
p0 385.8 ± 0.2958
450
400
350
300
250

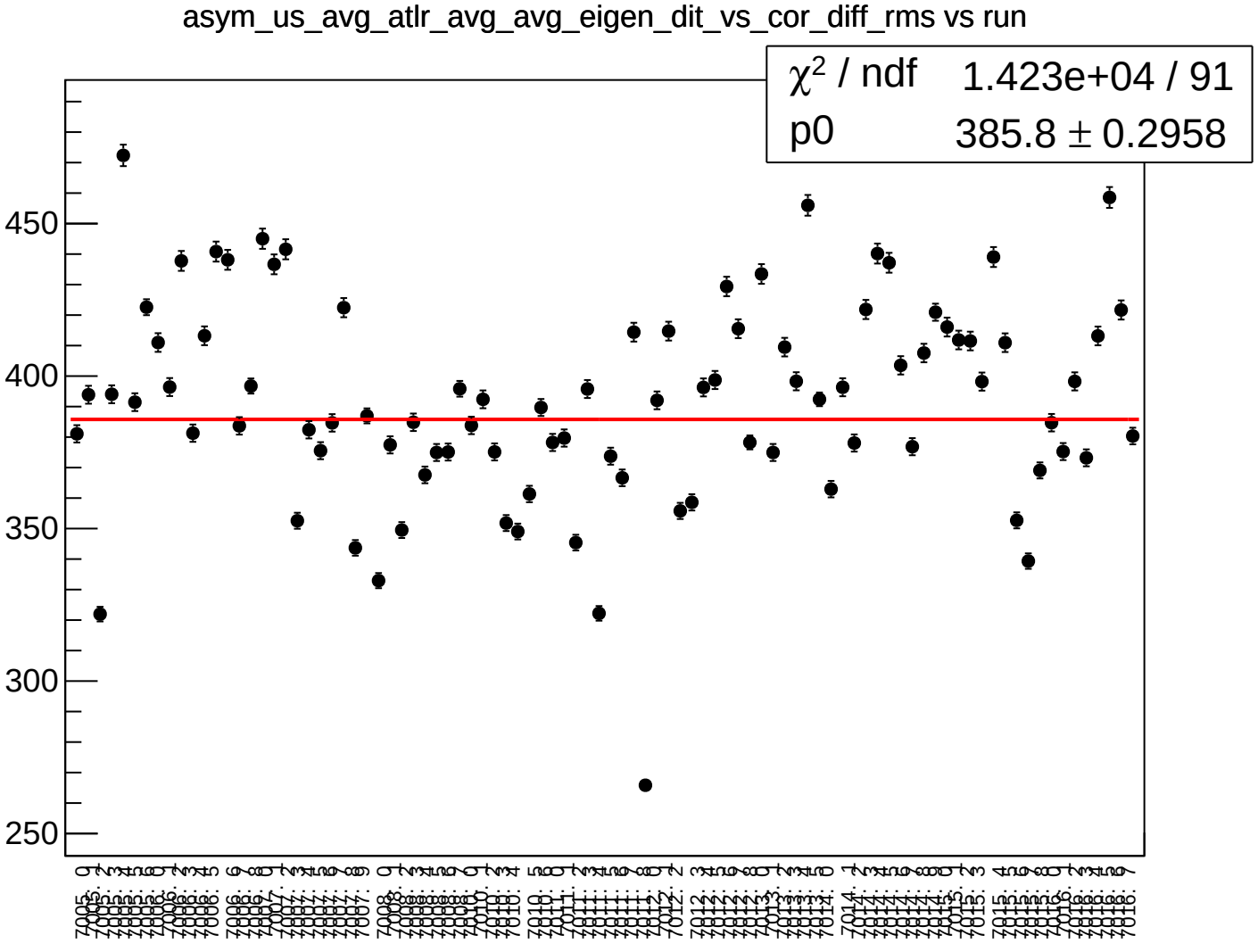

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.25 / 91
p0 −4.805e−05 ± 1.671e−05
pull
Entries 92
Mean −52.05
Std Dev 0

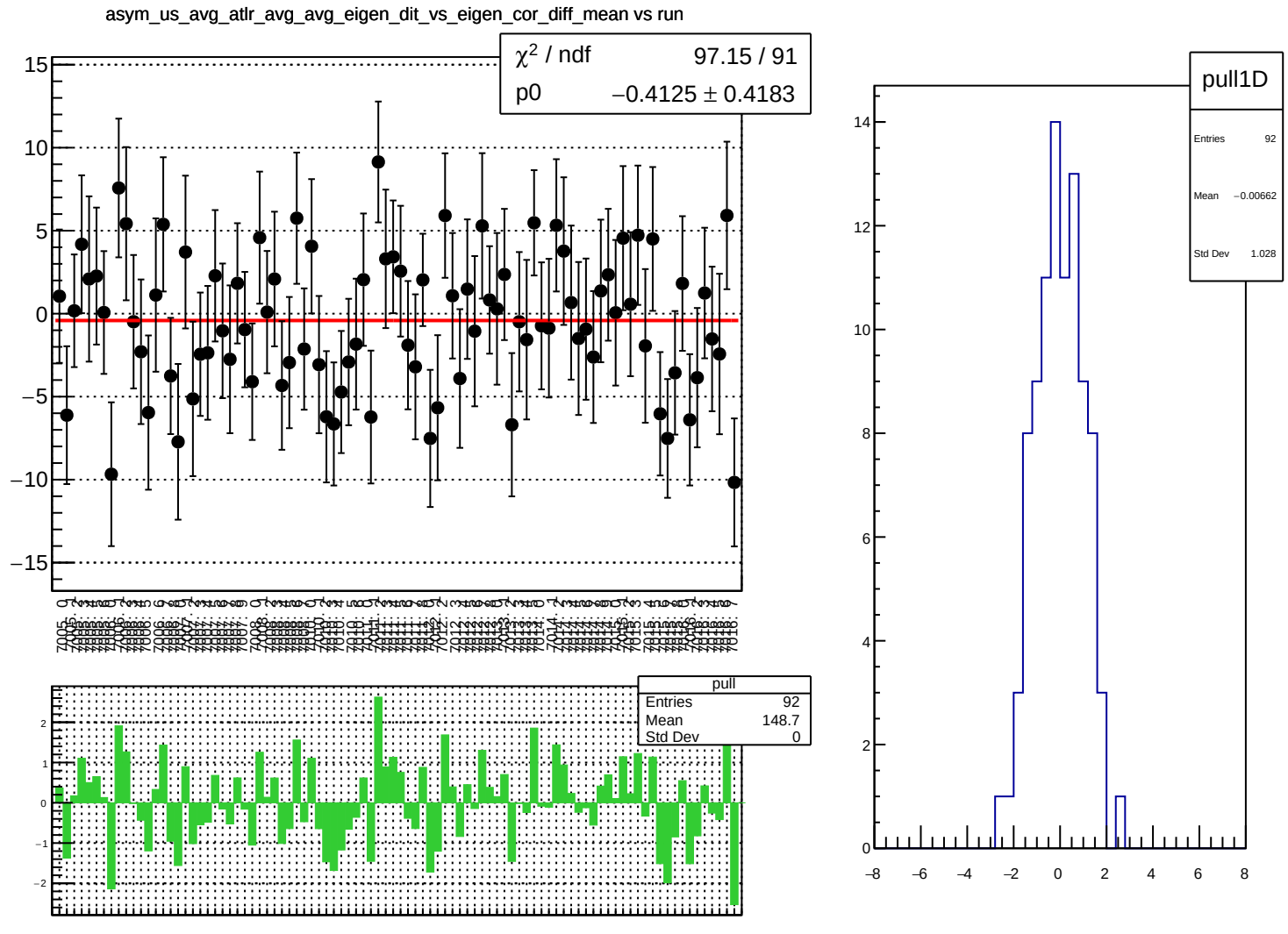

pull1D
Entries 92
Mean 0.0107
Std Dev 0.9163

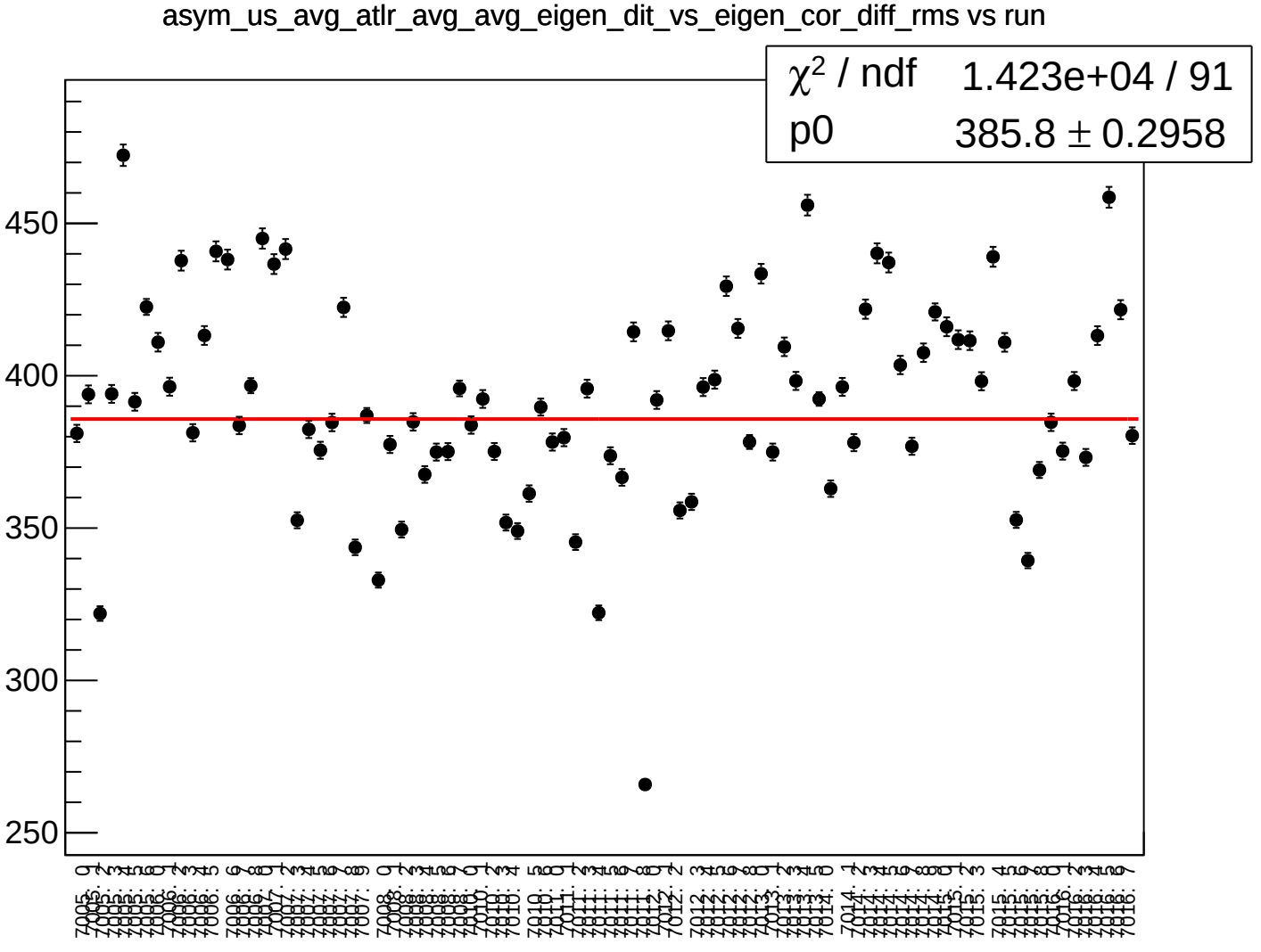

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2942 / 91
p0 0.01546 ± 1.181e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014

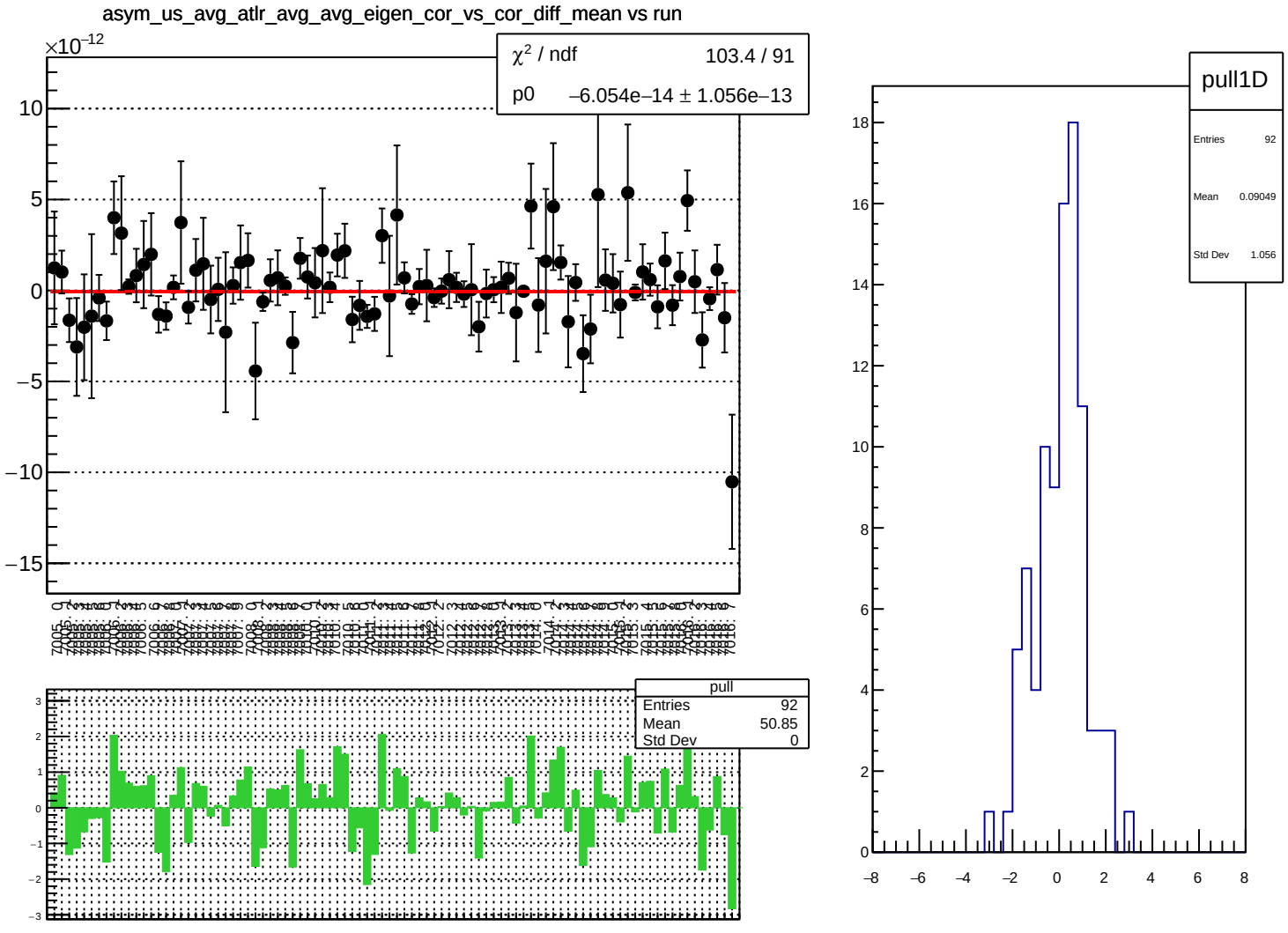

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.15 / 91
p0 −0.4125 ± 0.4183
pull
Entries 92
Mean 148.7
Std Dev 0

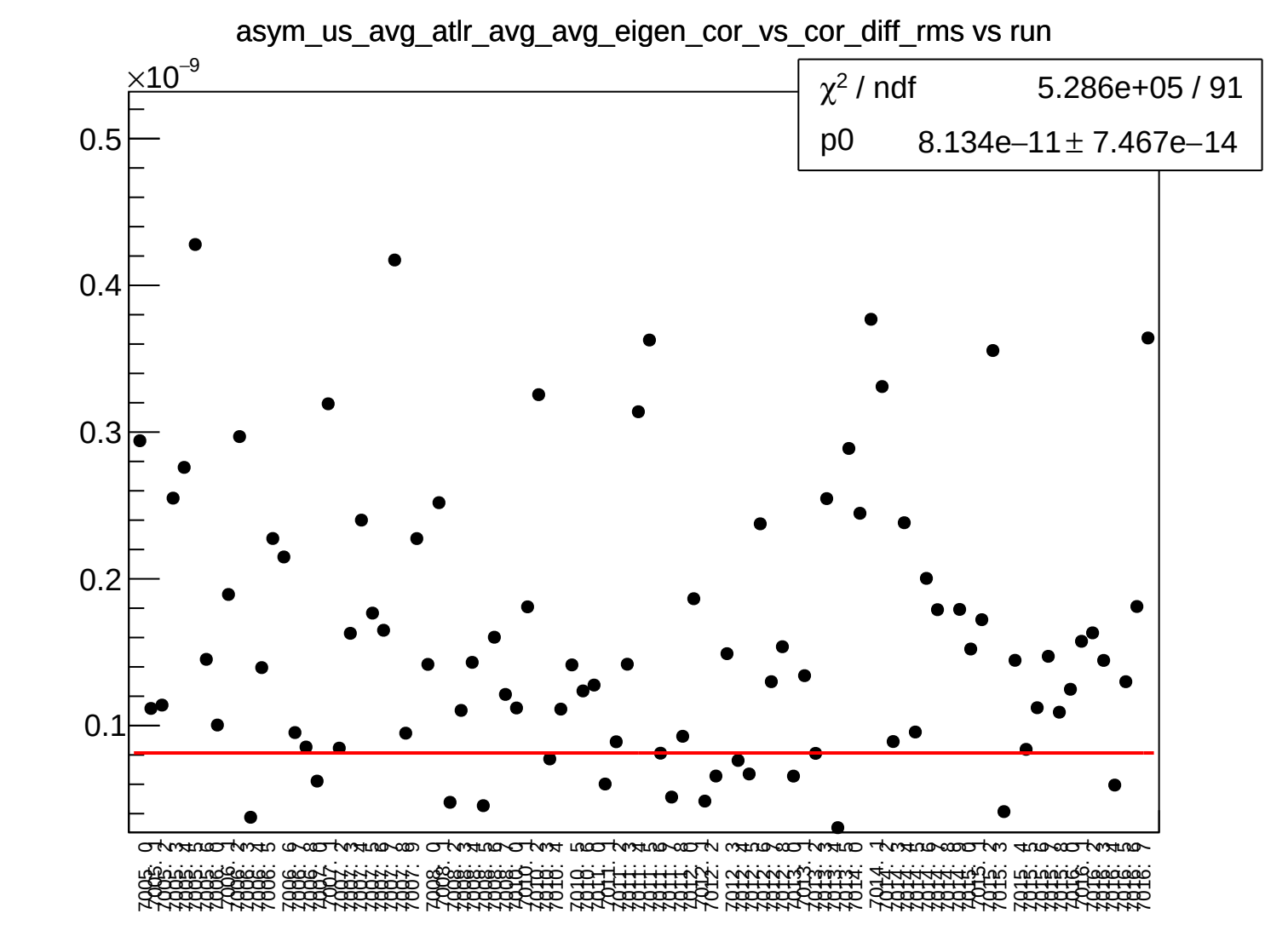

pull1D
Entries 92
Mean −0.00662
Std Dev 1.028

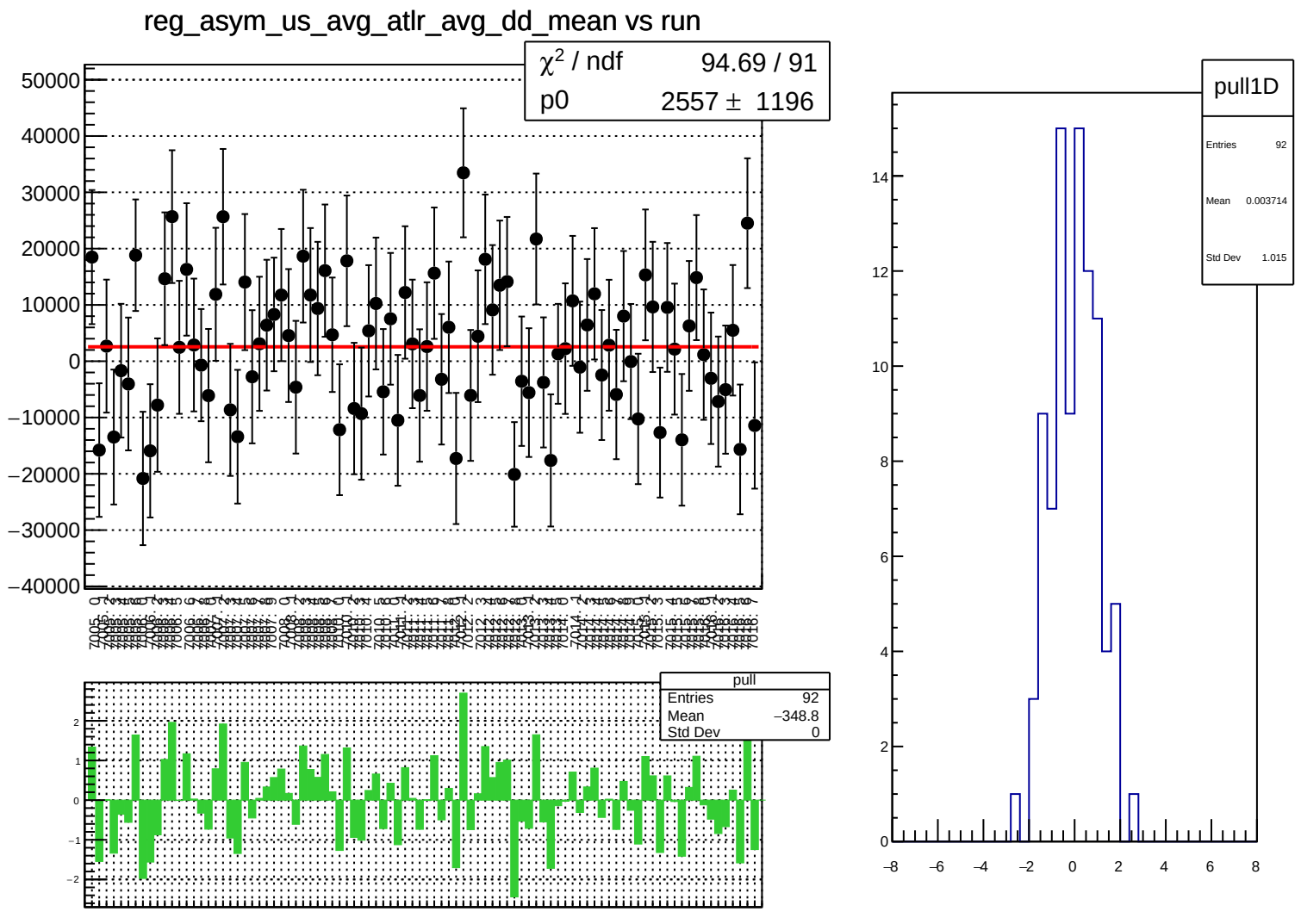

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.423e+04 / 91
p0 385.8 ± 0.2958
450
400
350
300
250

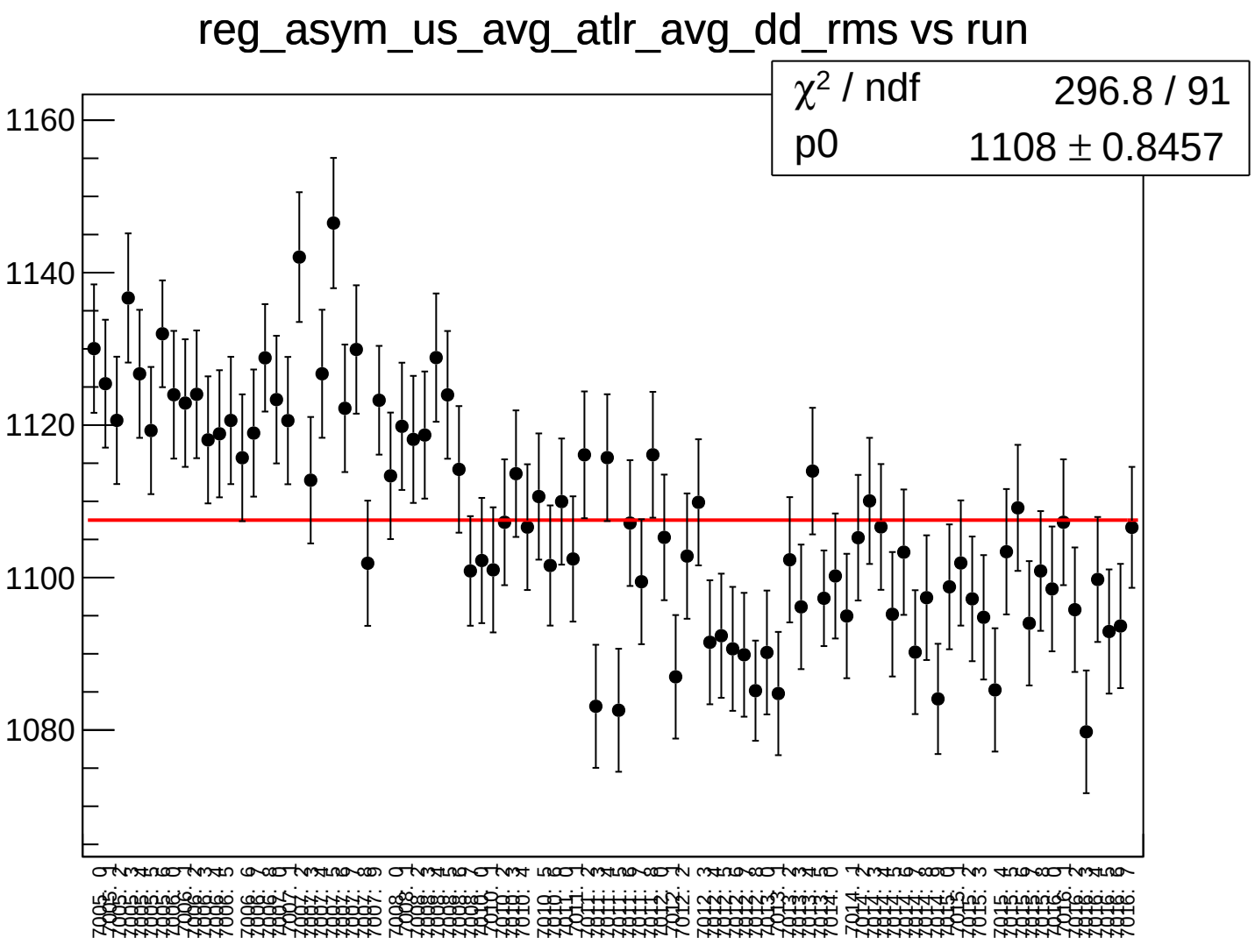

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.15 / 91
p0 −0.4125 ± 0.4183
pull
Entries 92
Mean 148.7
Std Dev 0
pull1D
Entries 92
Mean −0.00662
Std Dev 1.028

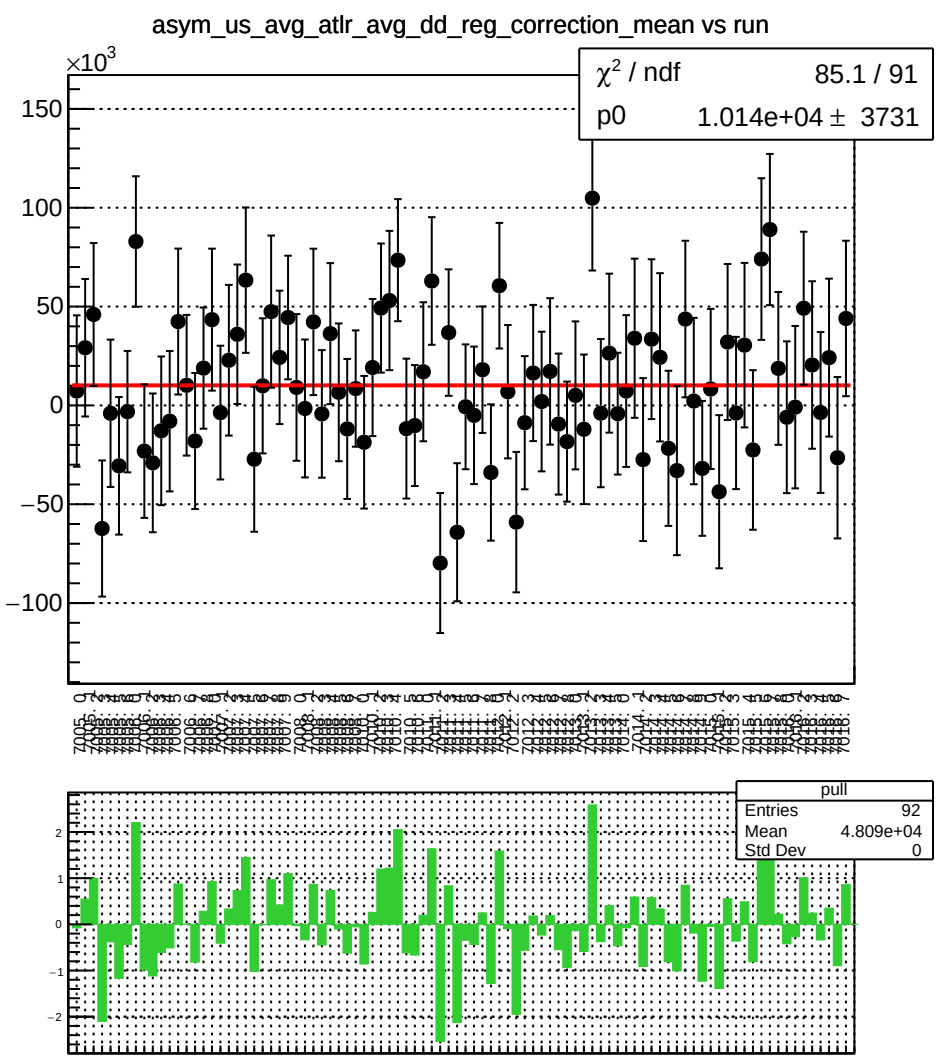

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.423e+04 / 91
p0 385.8 ± 0.2958
450
400
350
300
250

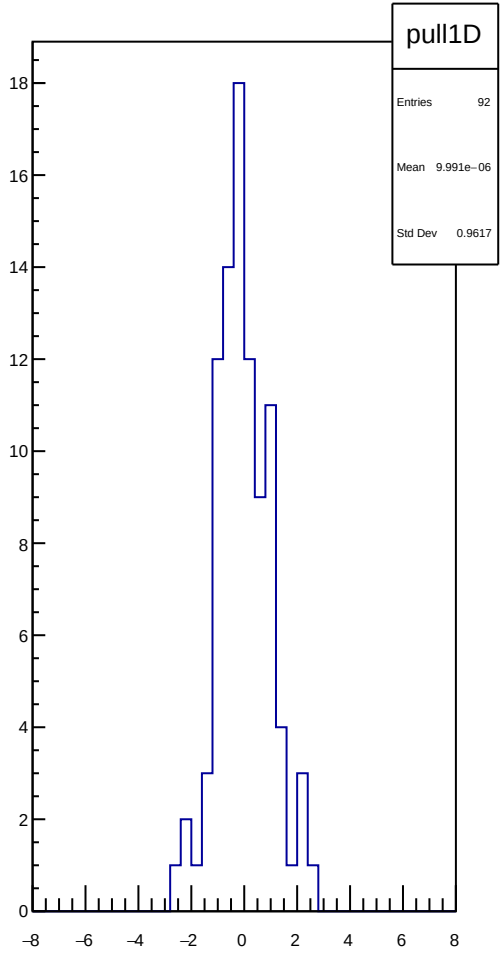

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.4 / 91
p0 −6.054e−14 ± 1.056e−13
pull
Entries 92
Mean 50.85
Std Dev 0
pull1D
Entries 92
Mean 0.09049
Std Dev 1.056

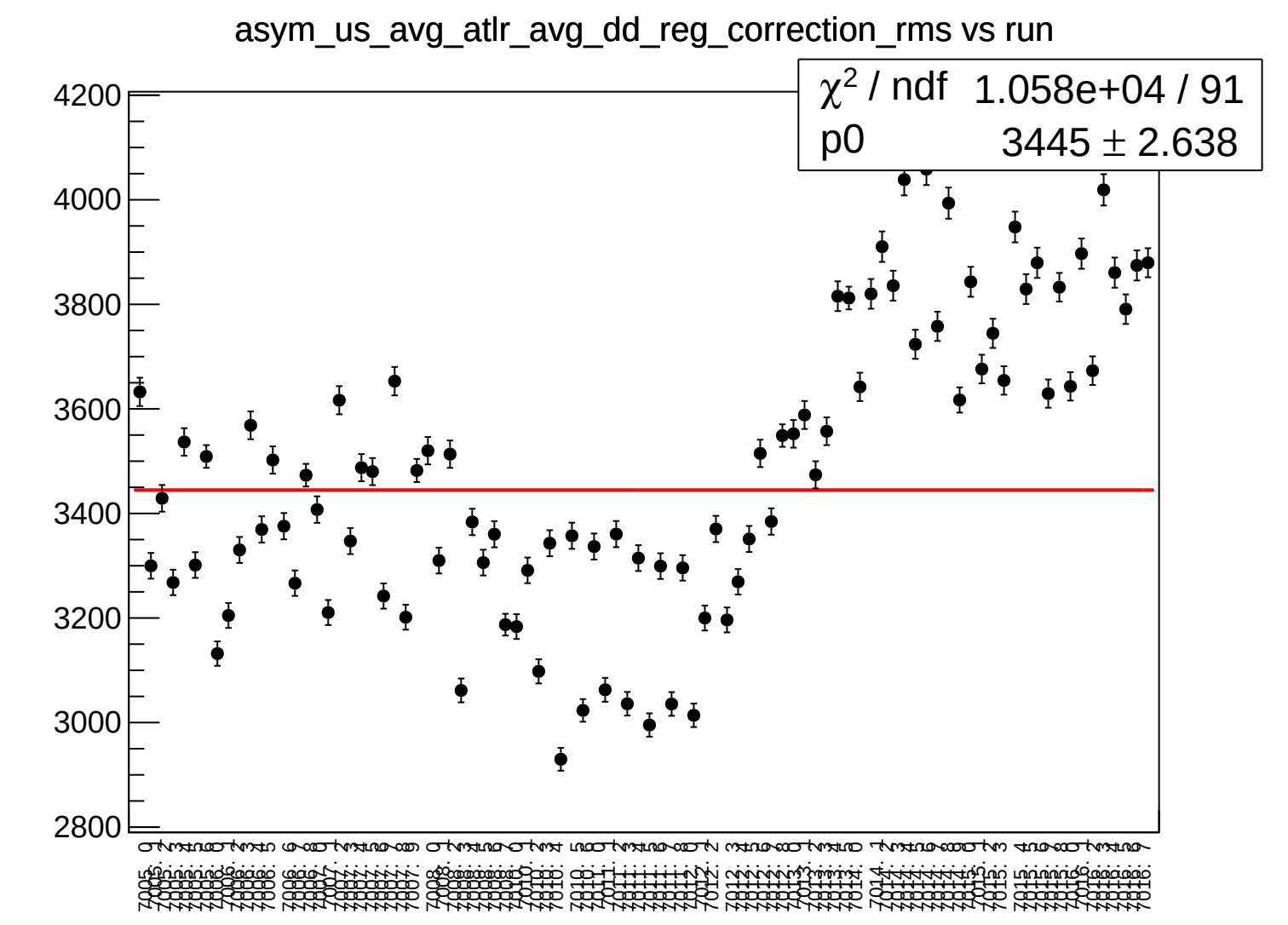

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.286e+05 / 91
p0 8.134e−11 ± 7.467e−14

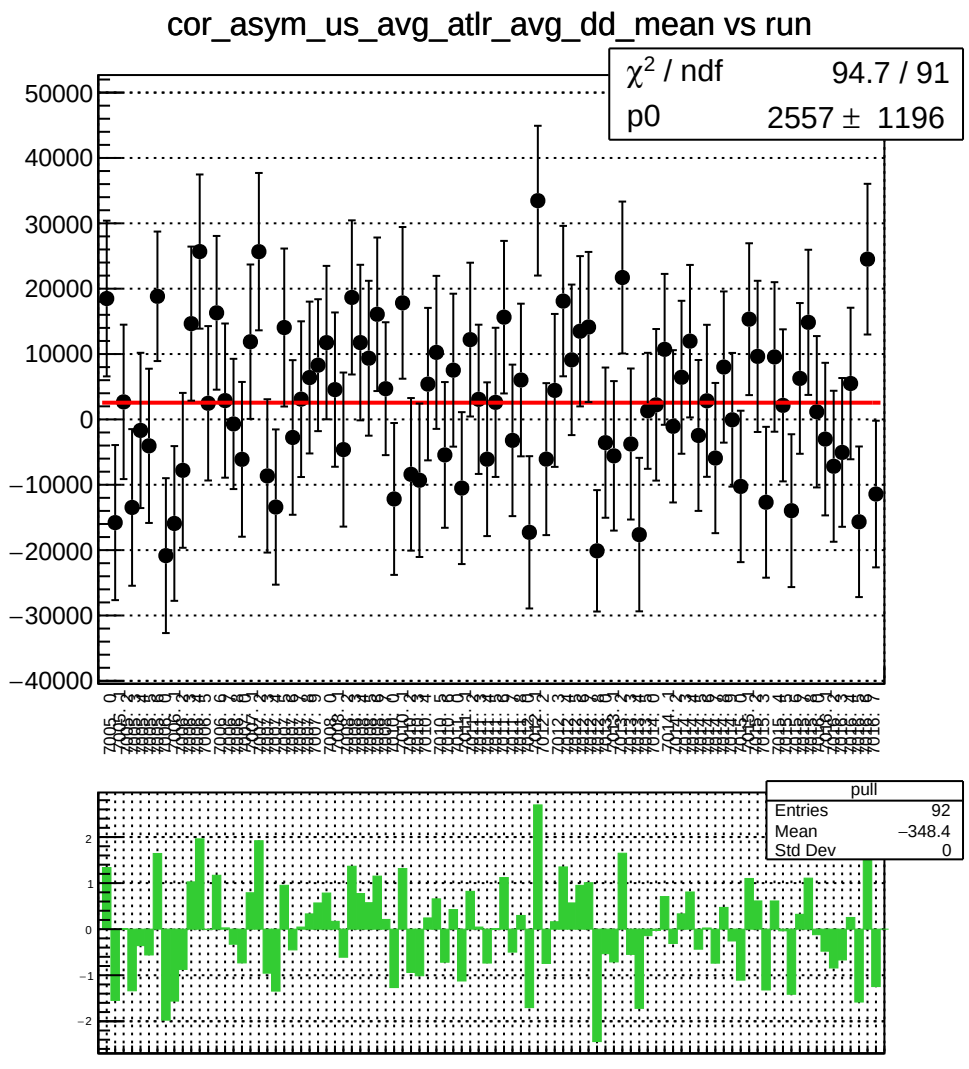

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.69 / 91
p0 2557 ± 1196
pull
Entries 92
Mean −348.8
Std Dev 0
pull1D
Entries 92
Mean 0.003714
Std Dev 1.015

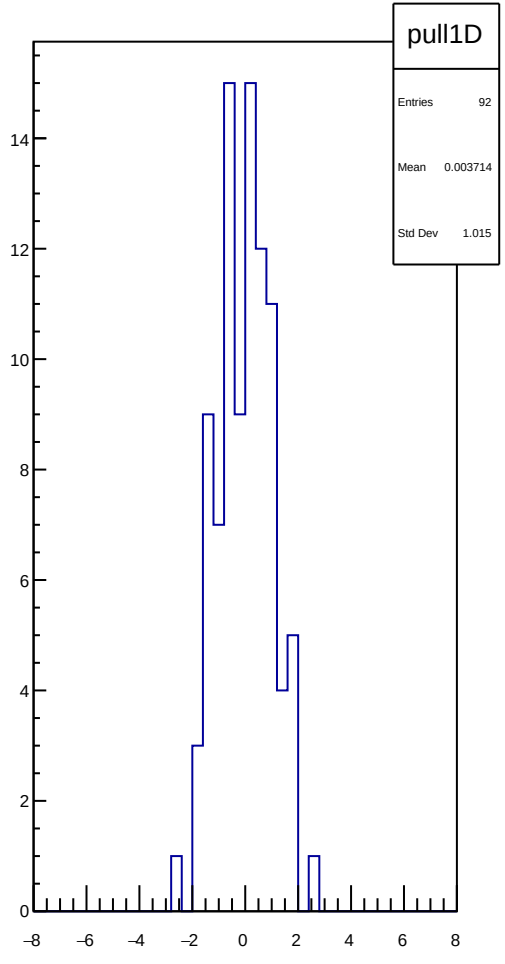

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 296.8 / 91
p0 1108 ± 0.8457
1160
1140
1120
1100
1080

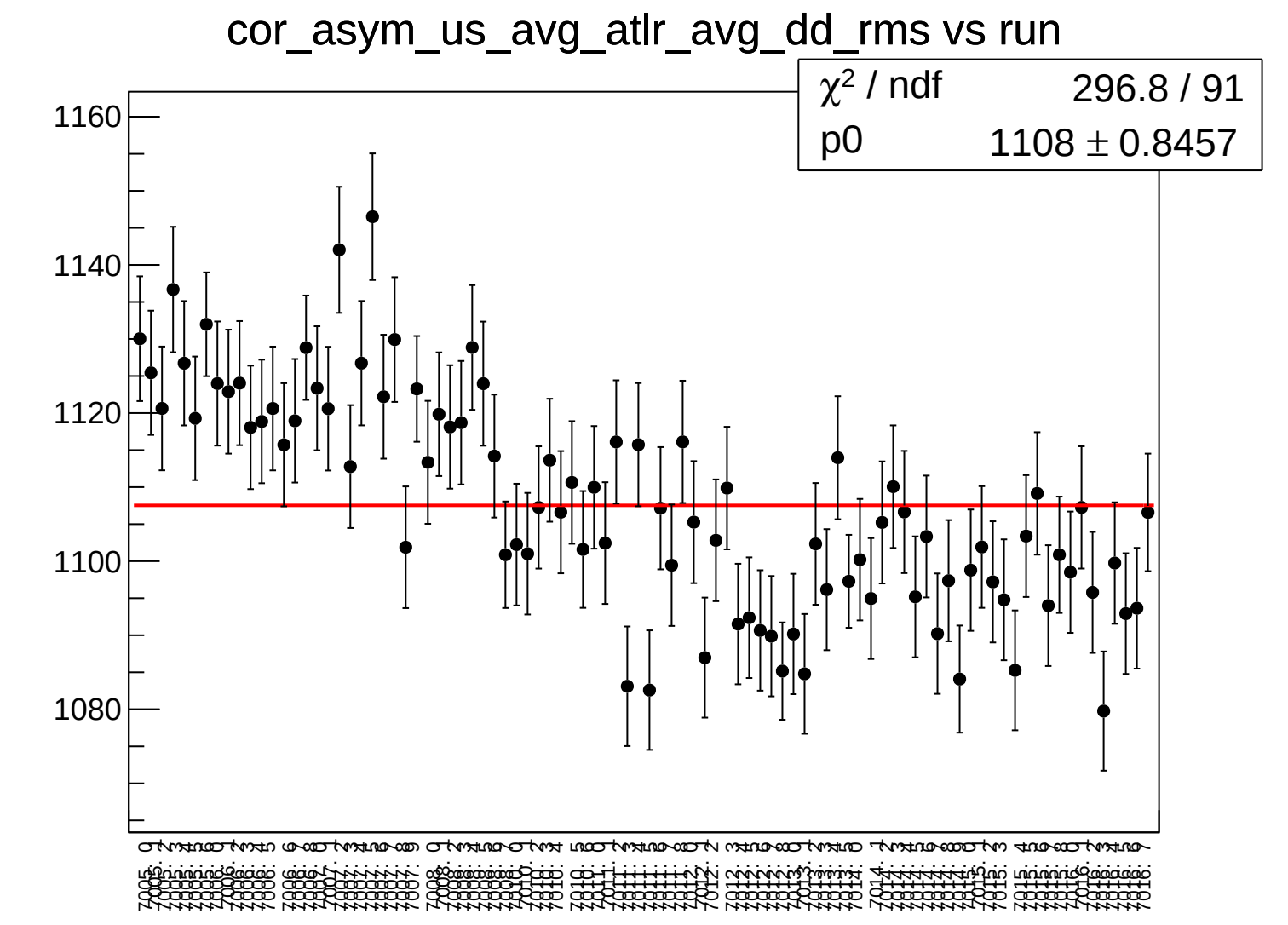

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.1 / 91
p0 1.014e+04 ± 3731
150
100
50
0
−50
−100
pull
Entries 92
Mean 4.809e+04
Std Dev 0
2
1
0
−1
−2

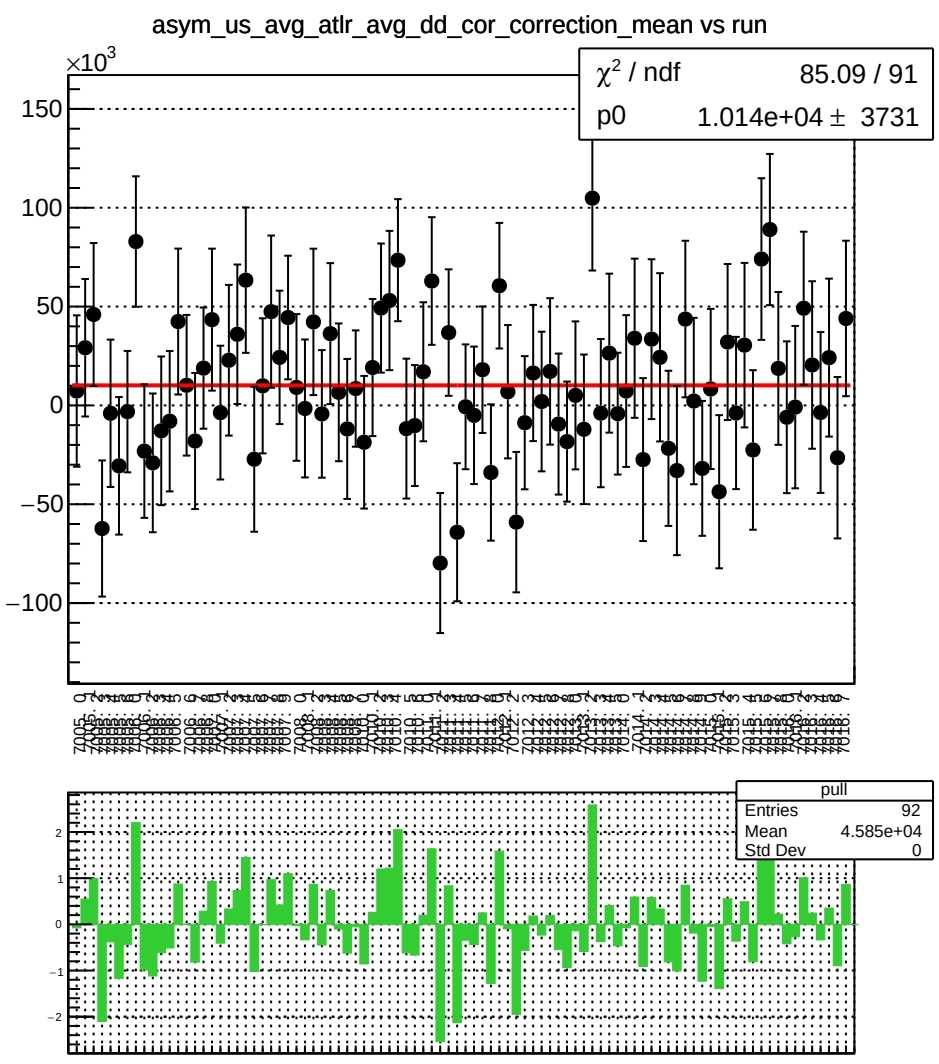

pull1D
Entries 92
Mean 9.991e−06
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

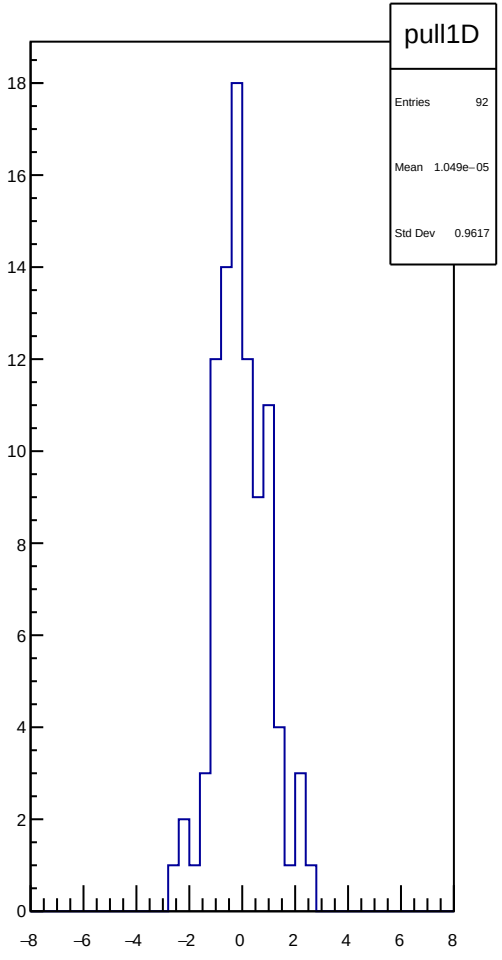

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 1.058e+04 / 91
p0 3445 ± 2.638
4200
4000
3800
3600
3400
3200
3000
2800

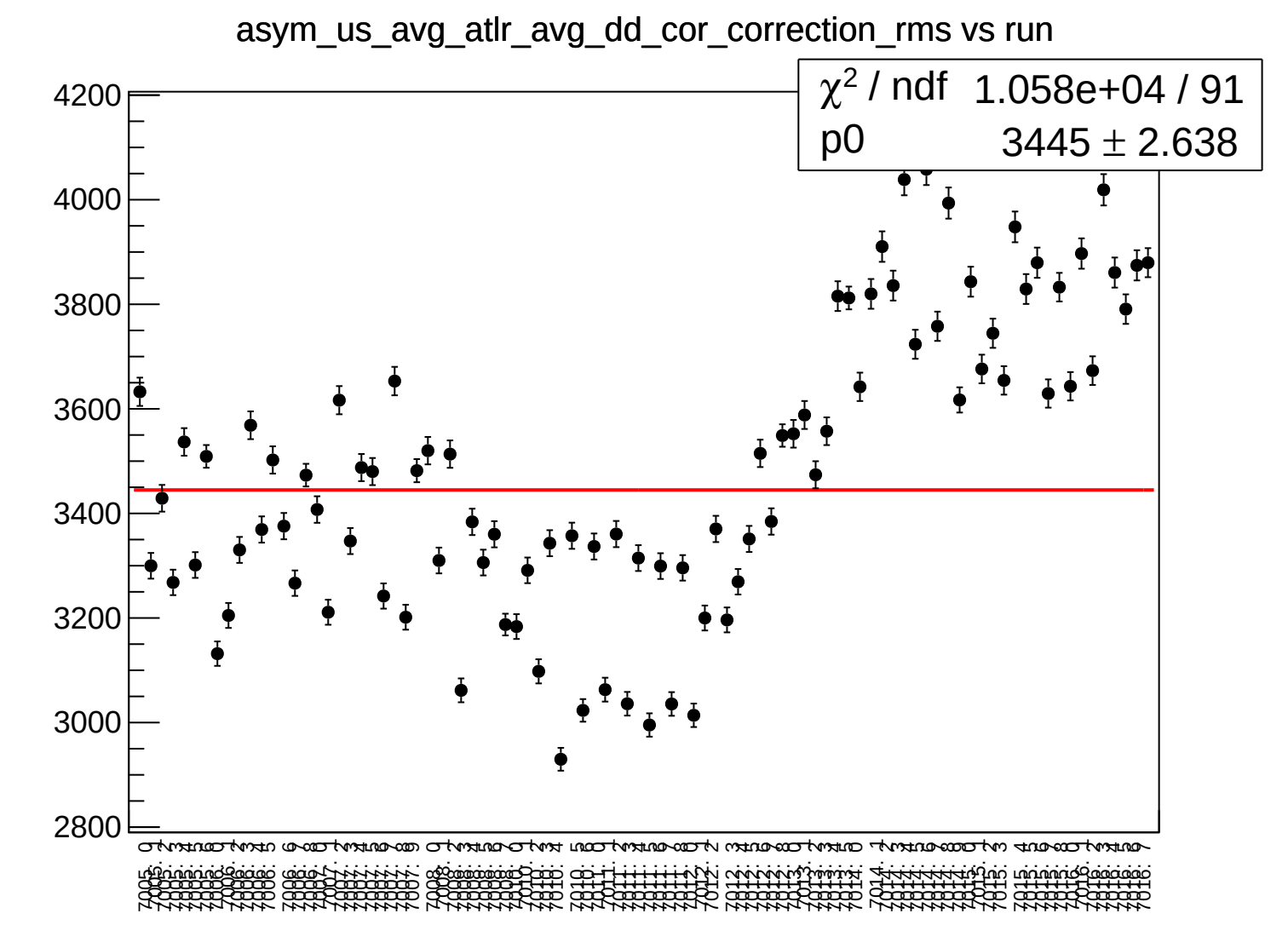

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.7 / 91
p0 2557 ± 1196
pull
Entries 92
Mean −348.4
Std Dev 0

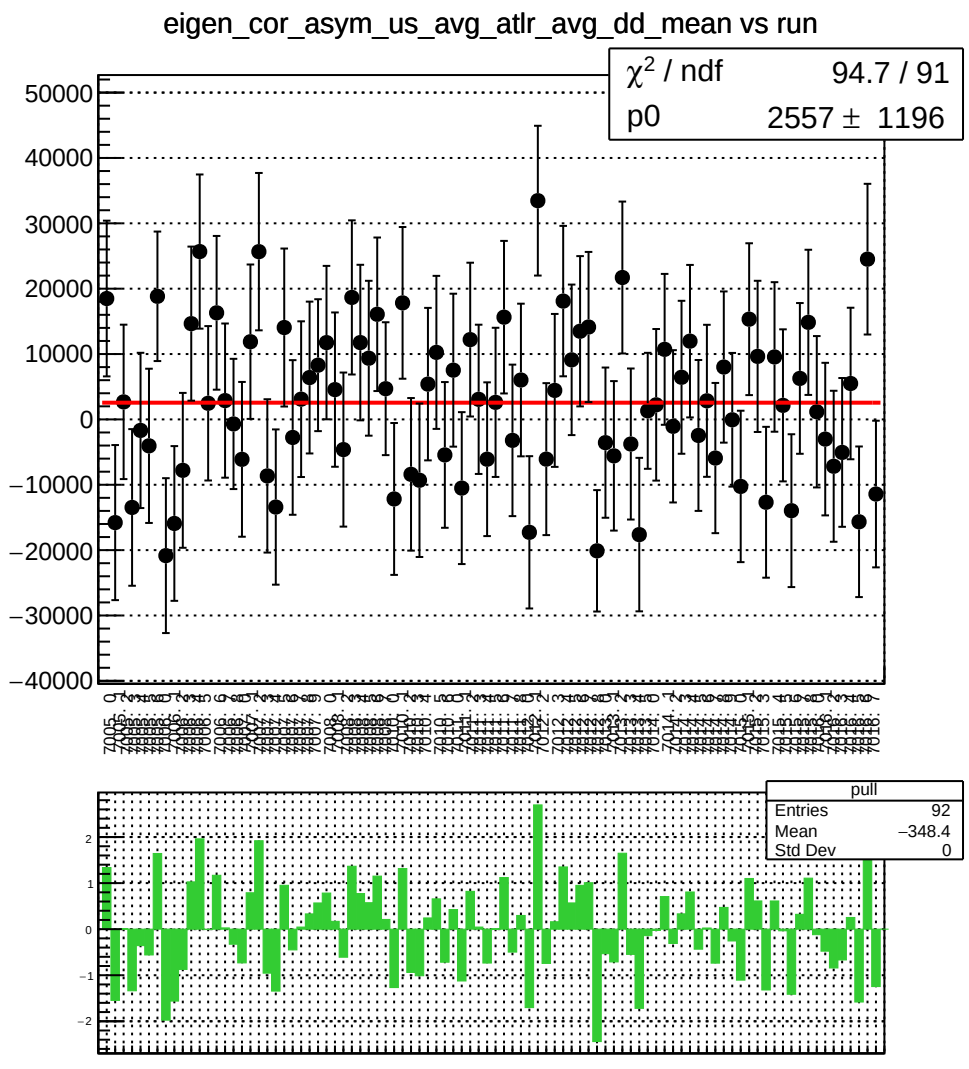

pull1D
Entries 92
Mean 0.003714
Std Dev 1.015

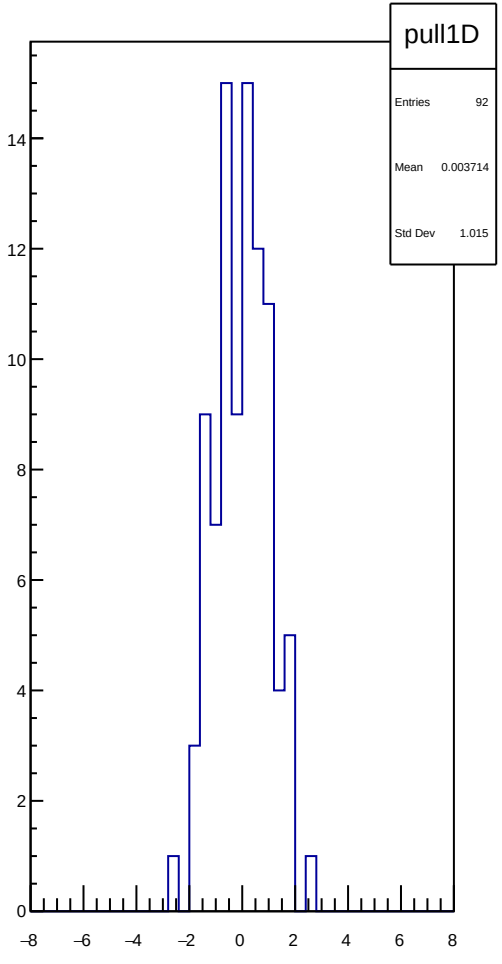

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 296.8 / 91
p0 1108 ± 0.8457
1160
1140
1120
1100
1080

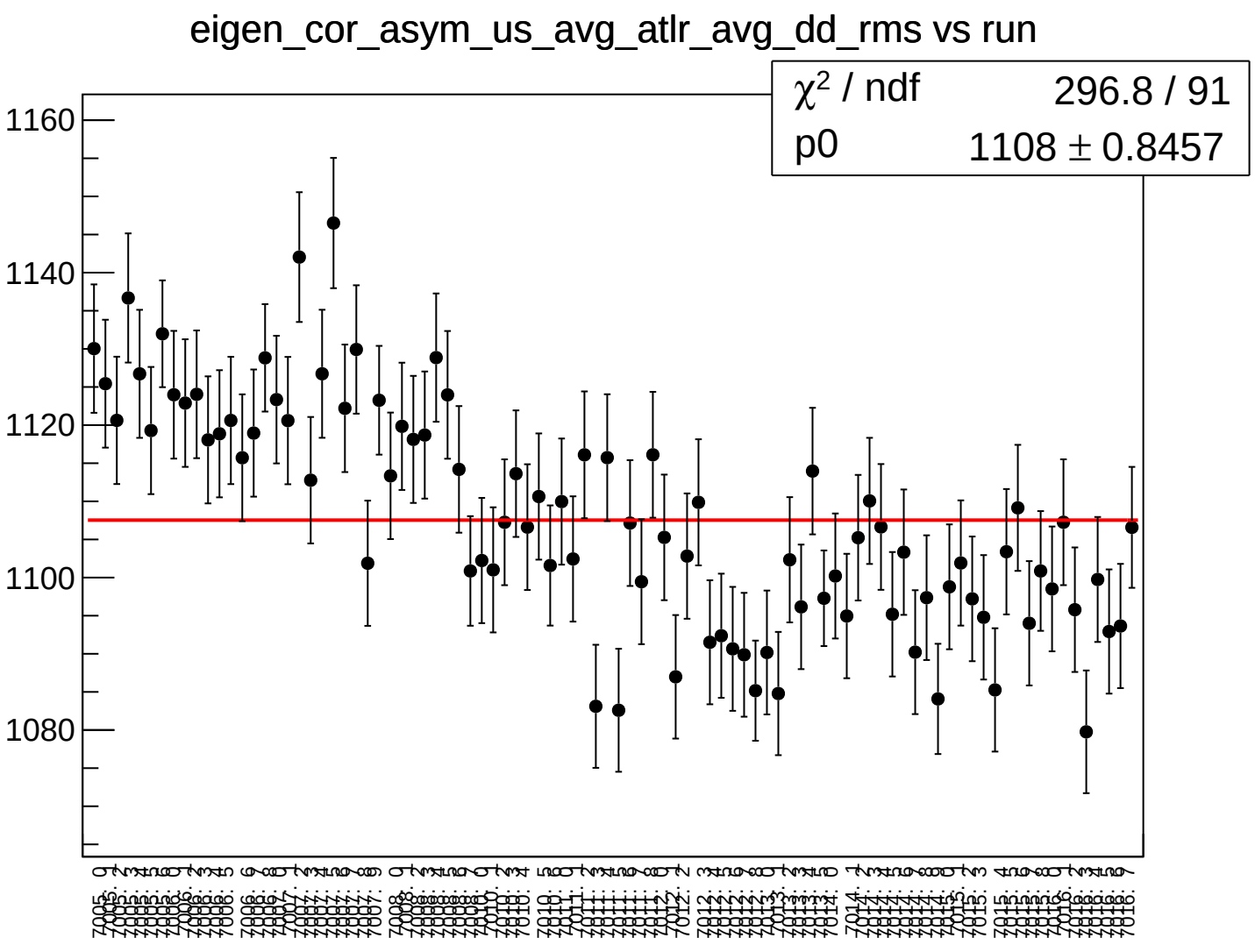

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.09 / 91
p0 1.014e+04 ± 3731
150
100
50
0
−50
−100
pull
Entries 92
Mean 4.585e+04
Std Dev 0
2
1
0
−1
−2

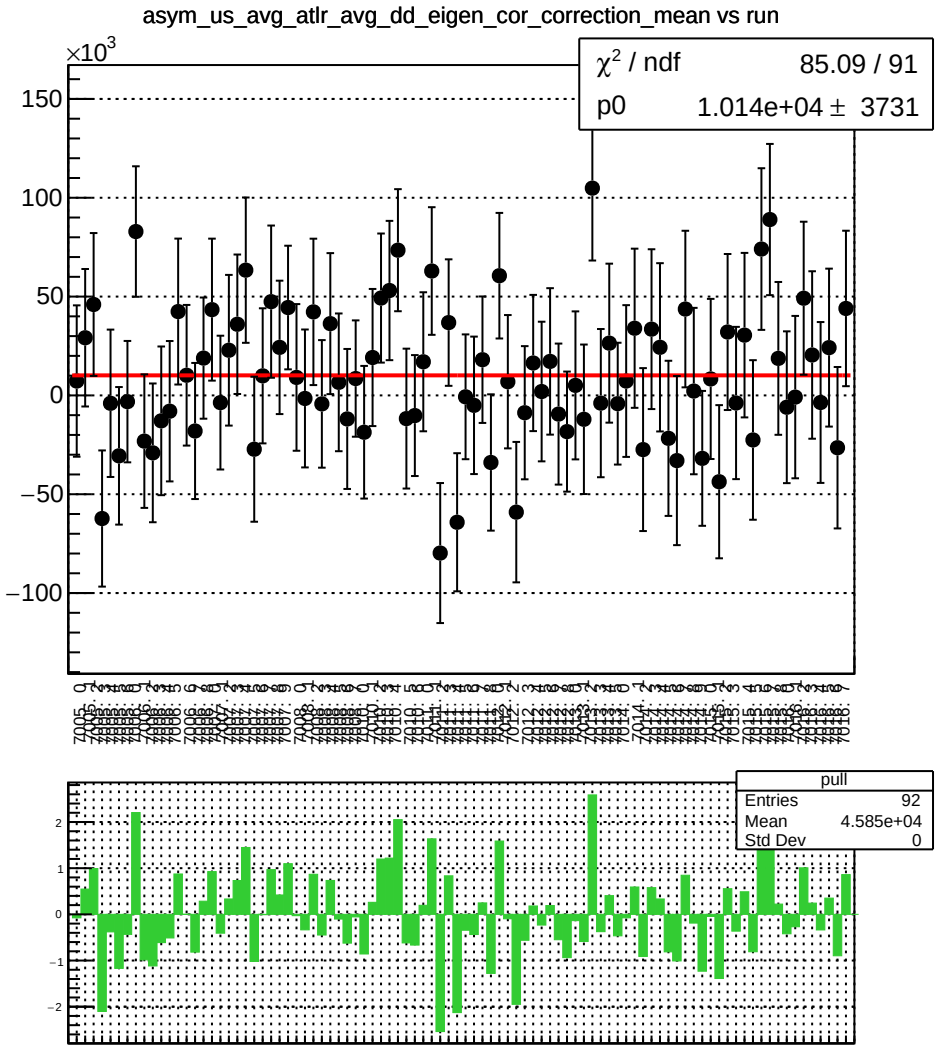

pull1D
Entries 92
Mean 1.049e−05
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

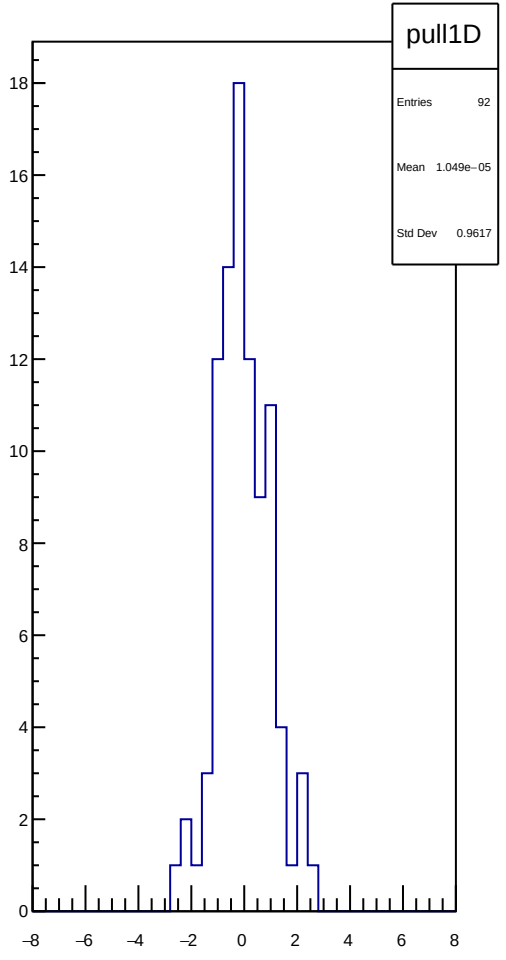

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 1.058e+04 / 91
p0 3445 ± 2.638
4200
4000
3800
3600
3400
3200
3000
2800

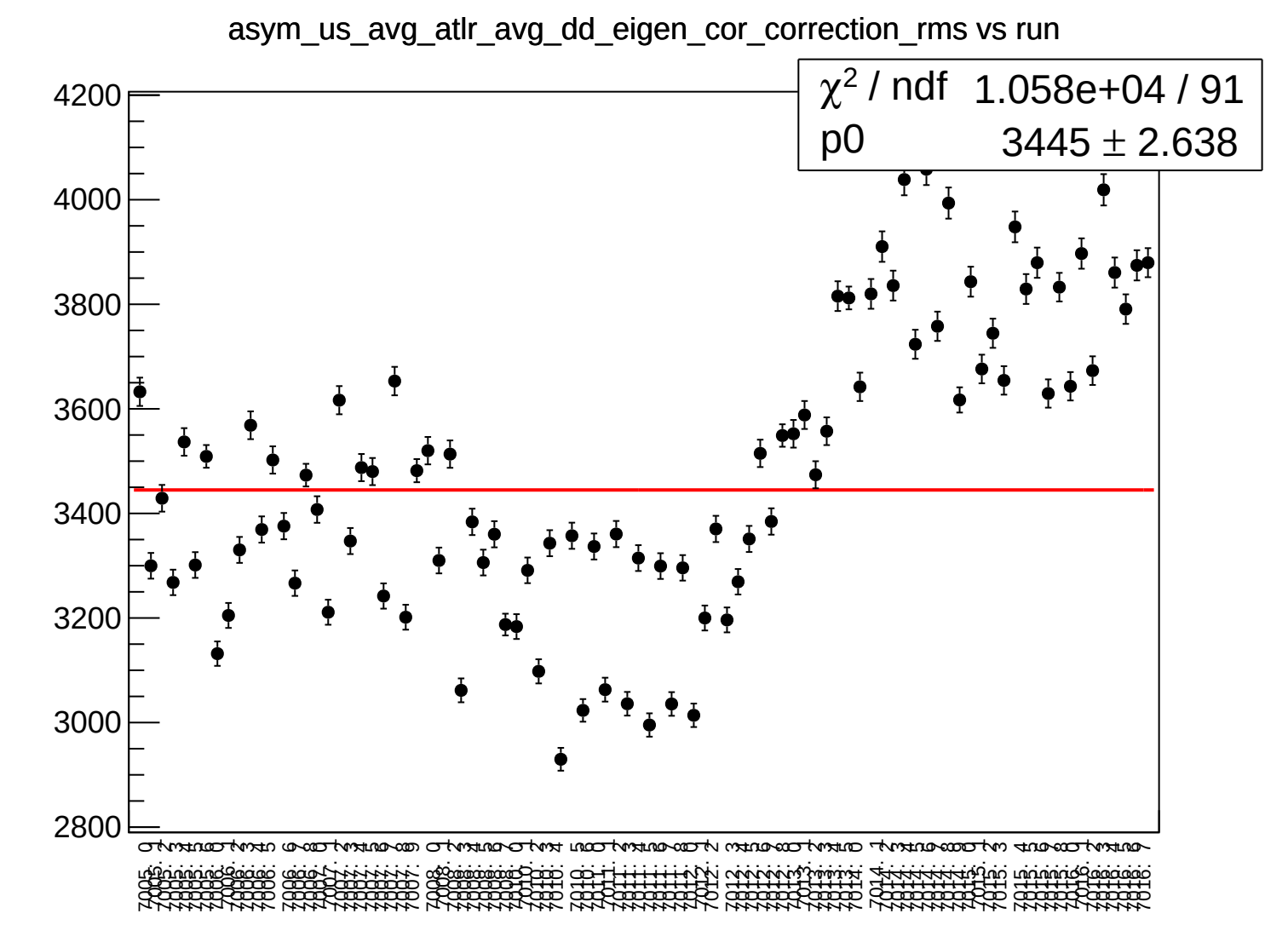

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.7 / 91
p0 2557 ± 1196
pull
Entries 92
Mean −348.4
Std Dev 0

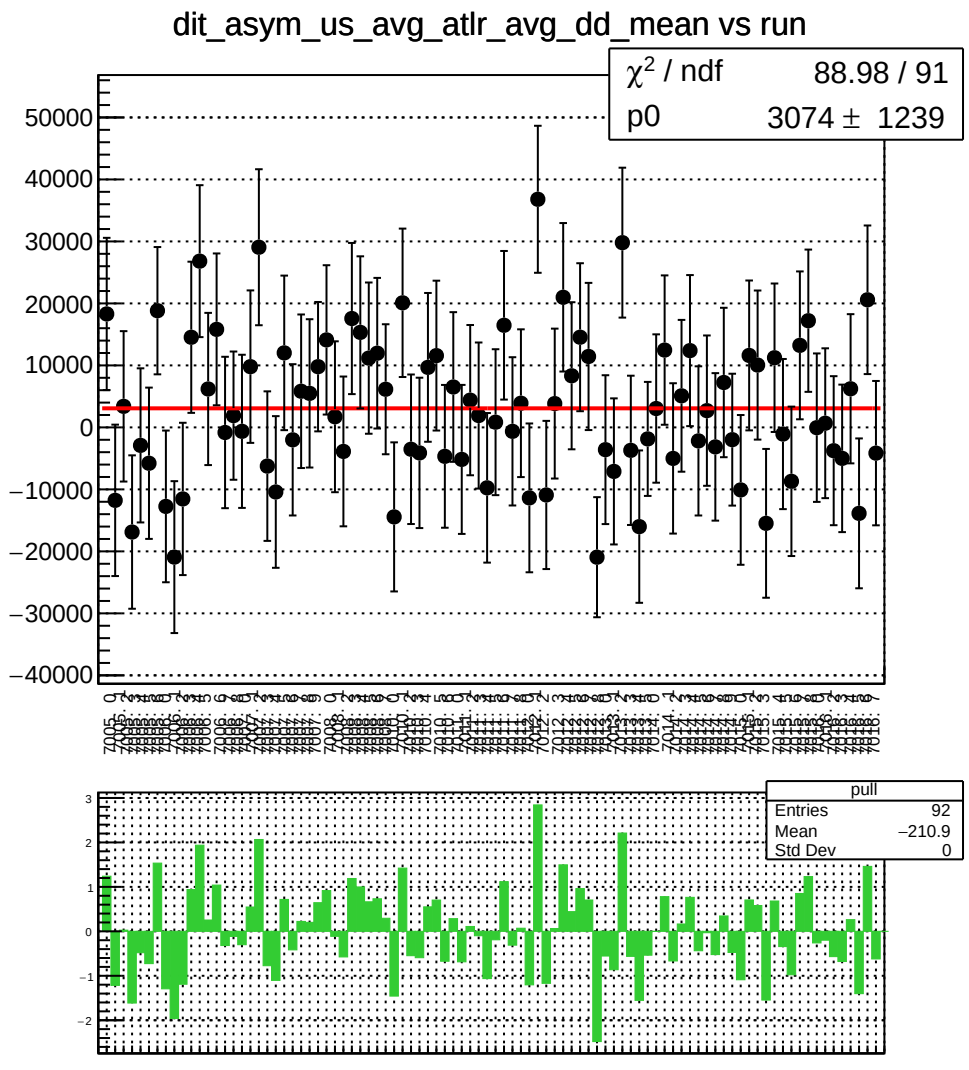

pull1D
Entries 92
Mean 0.003714
Std Dev 1.015

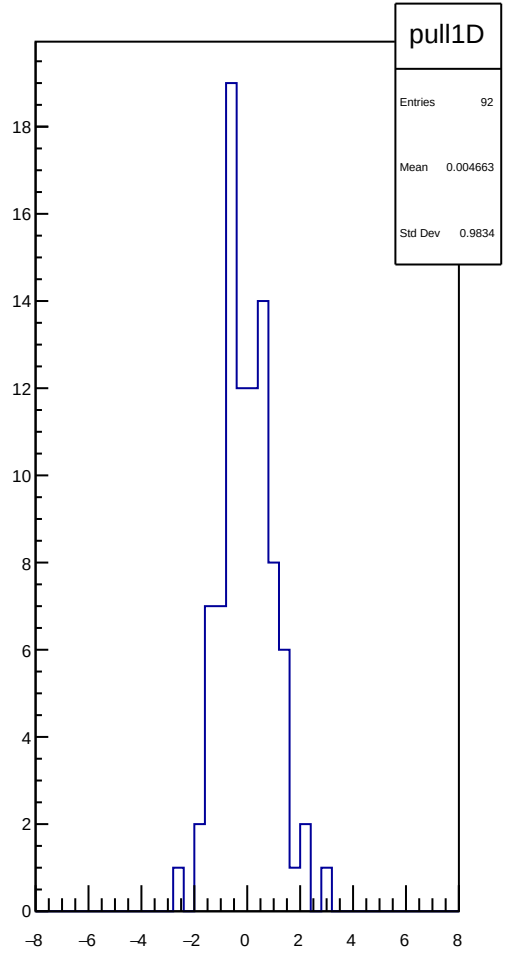

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 296.8 / 91
p0 1108 ± 0.8457
1160
1140
1120
1100
1080

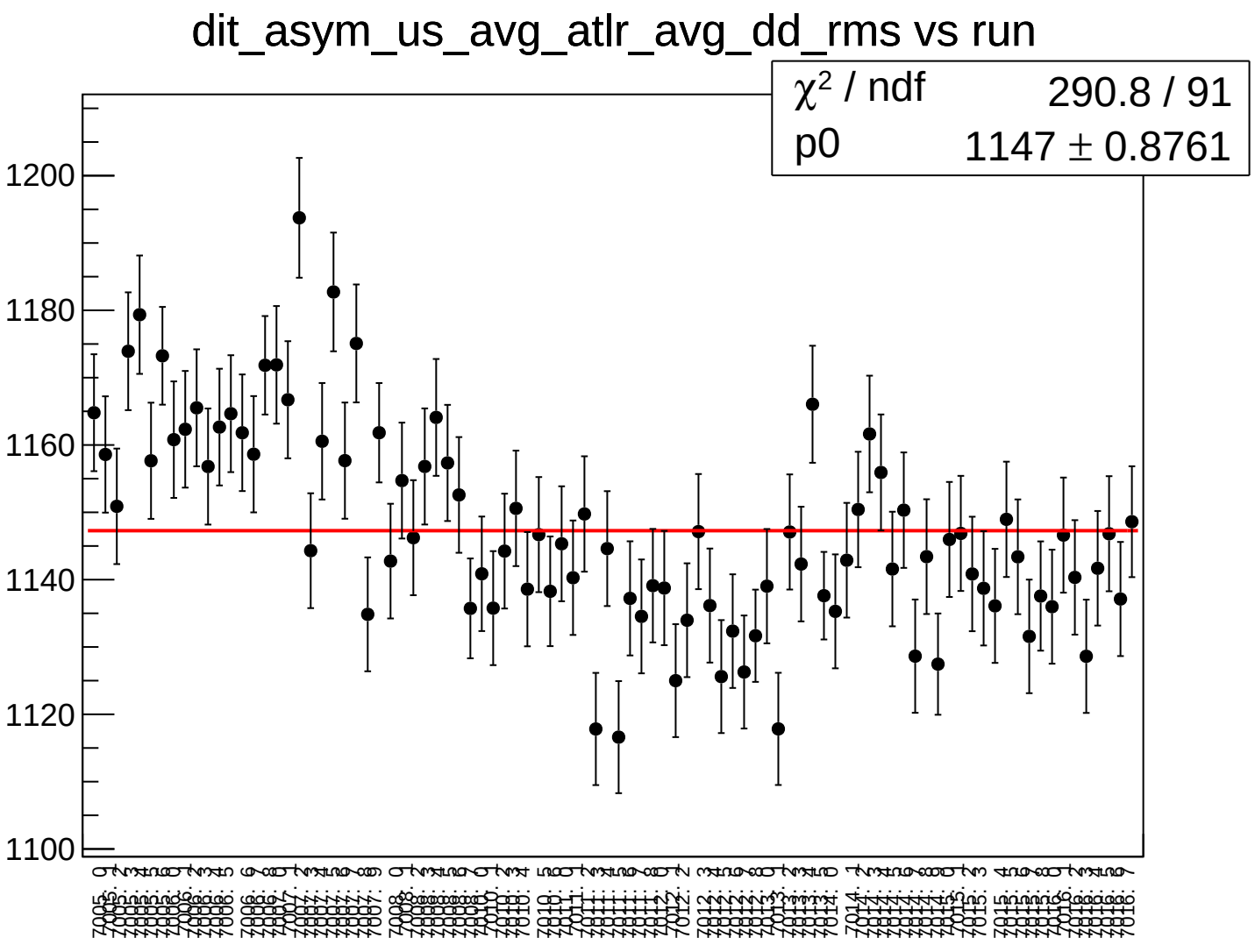

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.09 / 91
p0 1.014e+04 ± 3731
150
100
50
0
−50
−100
pull
Entries 92
Mean 4.585e+04
Std Dev 0
2
1
0
−1
−2

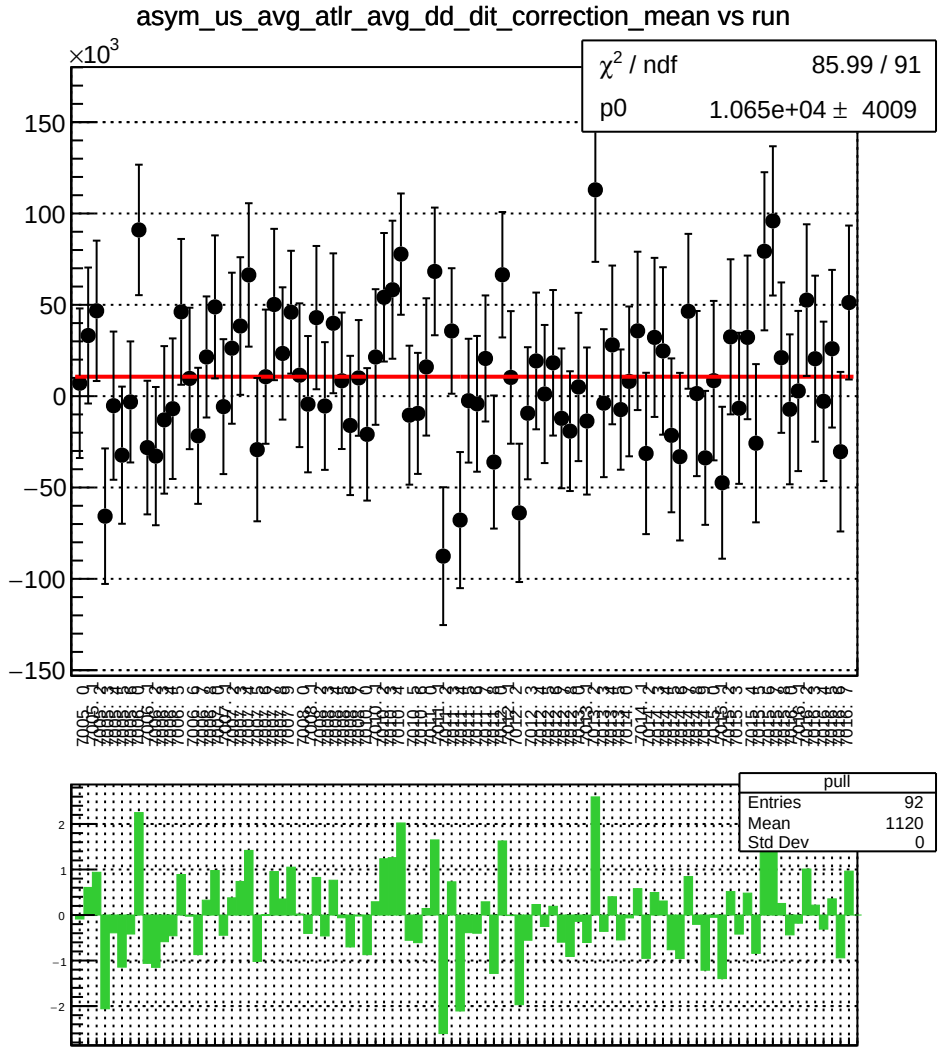

pull1D
Entries 92
Mean 1.049e−05
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

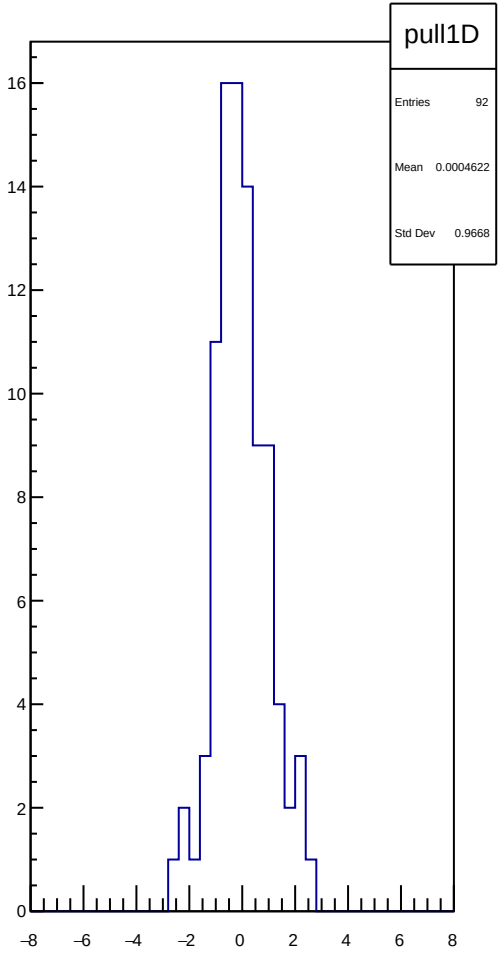

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.058e+04 / 91
p0 3445 ± 2.638
4200
4000
3800
3600
3400
3200
3000
2800

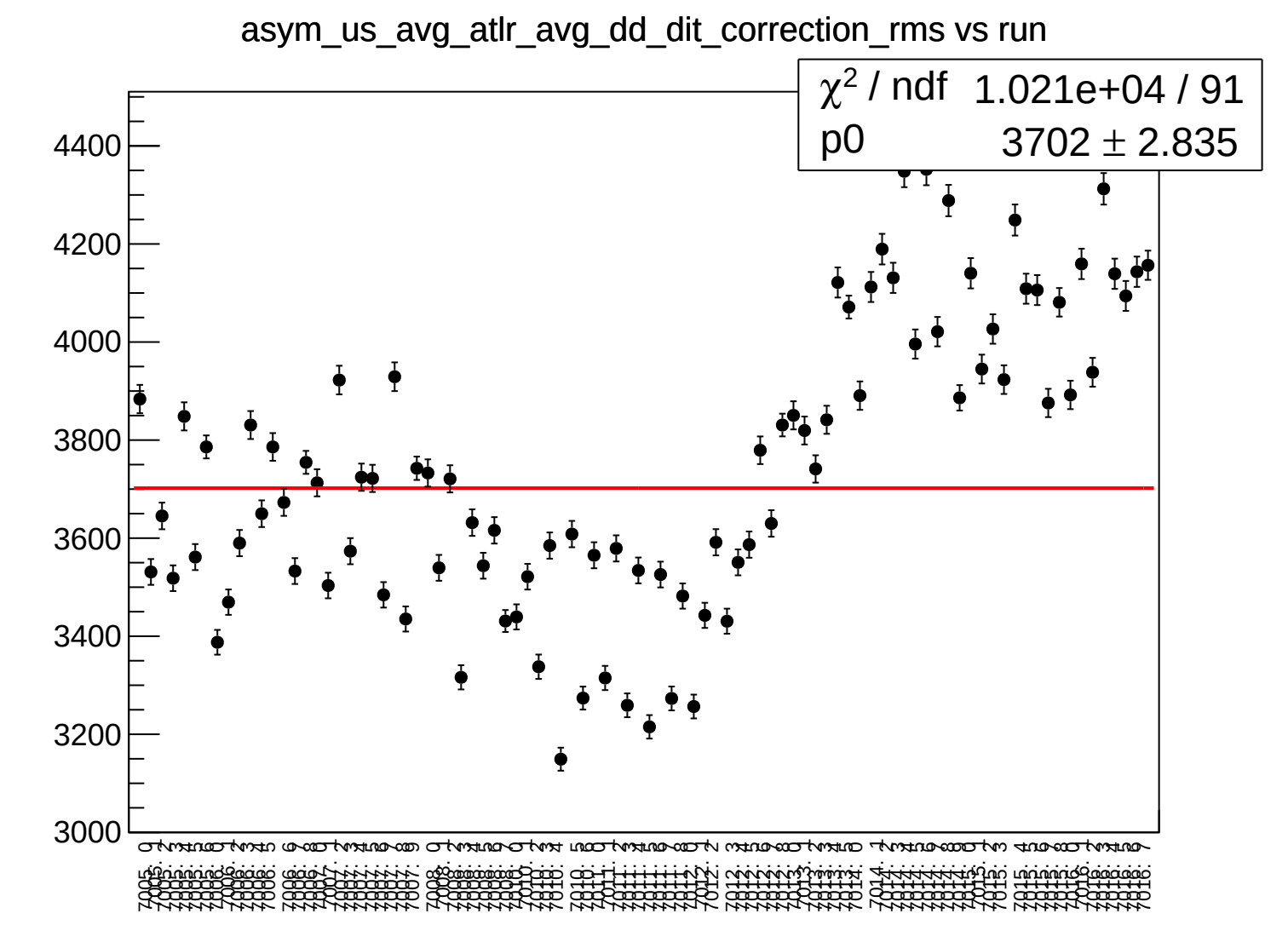

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.98 / 91
p0 3074 ± 1239
pull
Entries 92
Mean −210.9
Std Dev 0

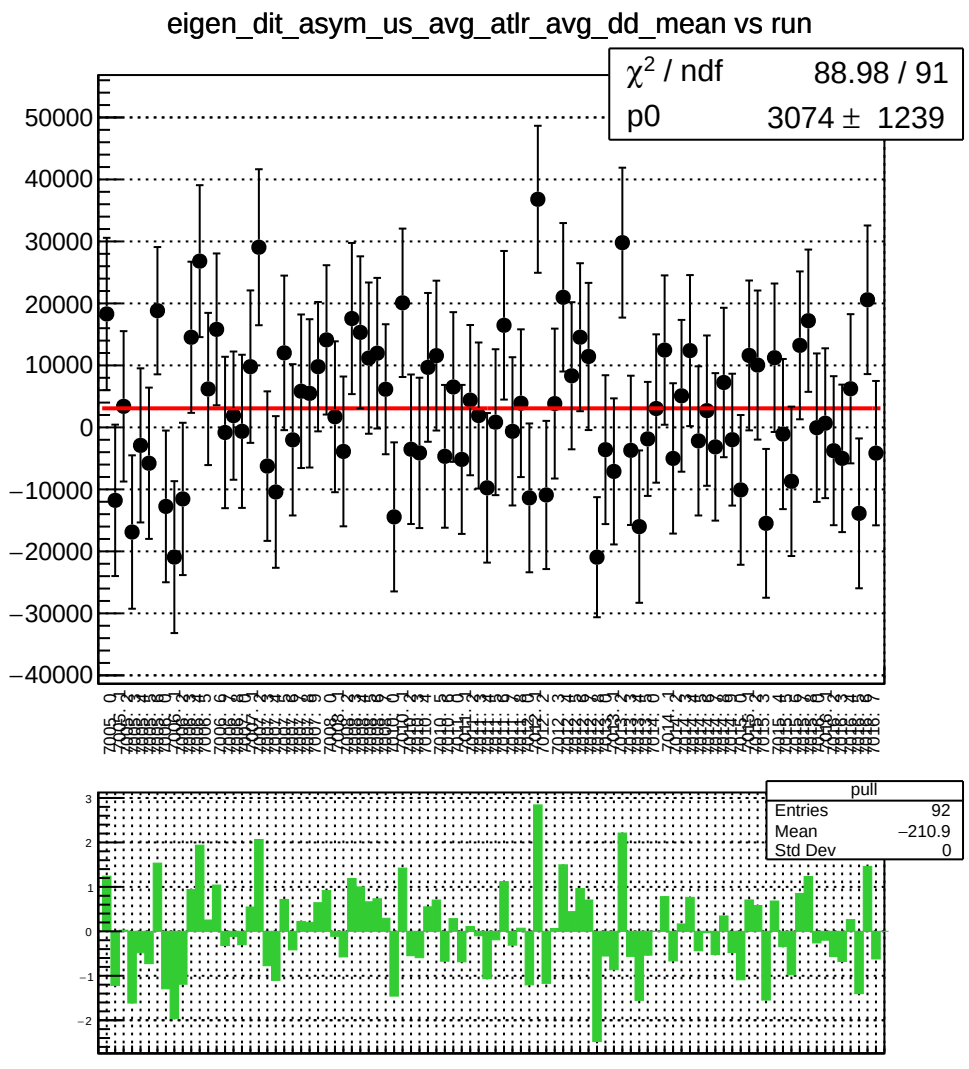

pull1D
Entries 92
Mean 0.004663
Std Dev 0.9834

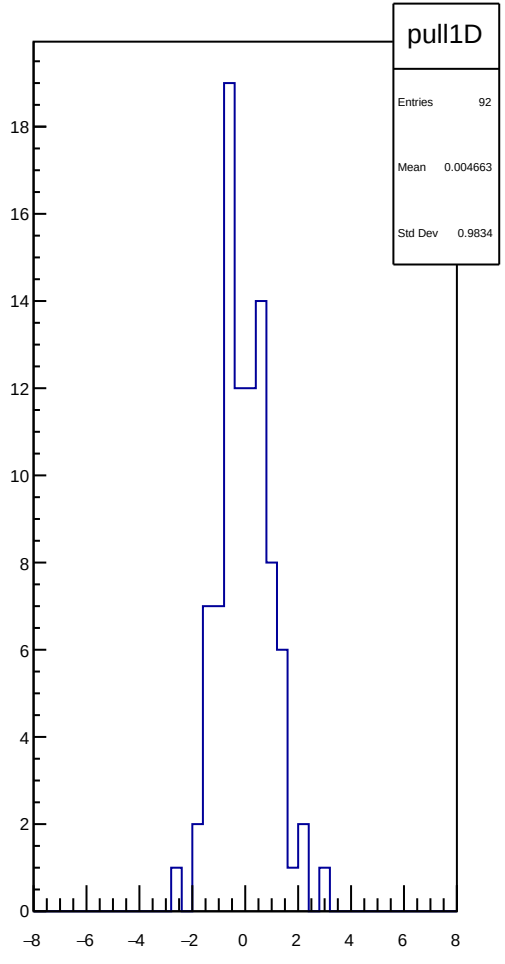

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 290.8 / 91
p0 1147 ± 0.8761
1200
1180
1160
1140
1120
1100

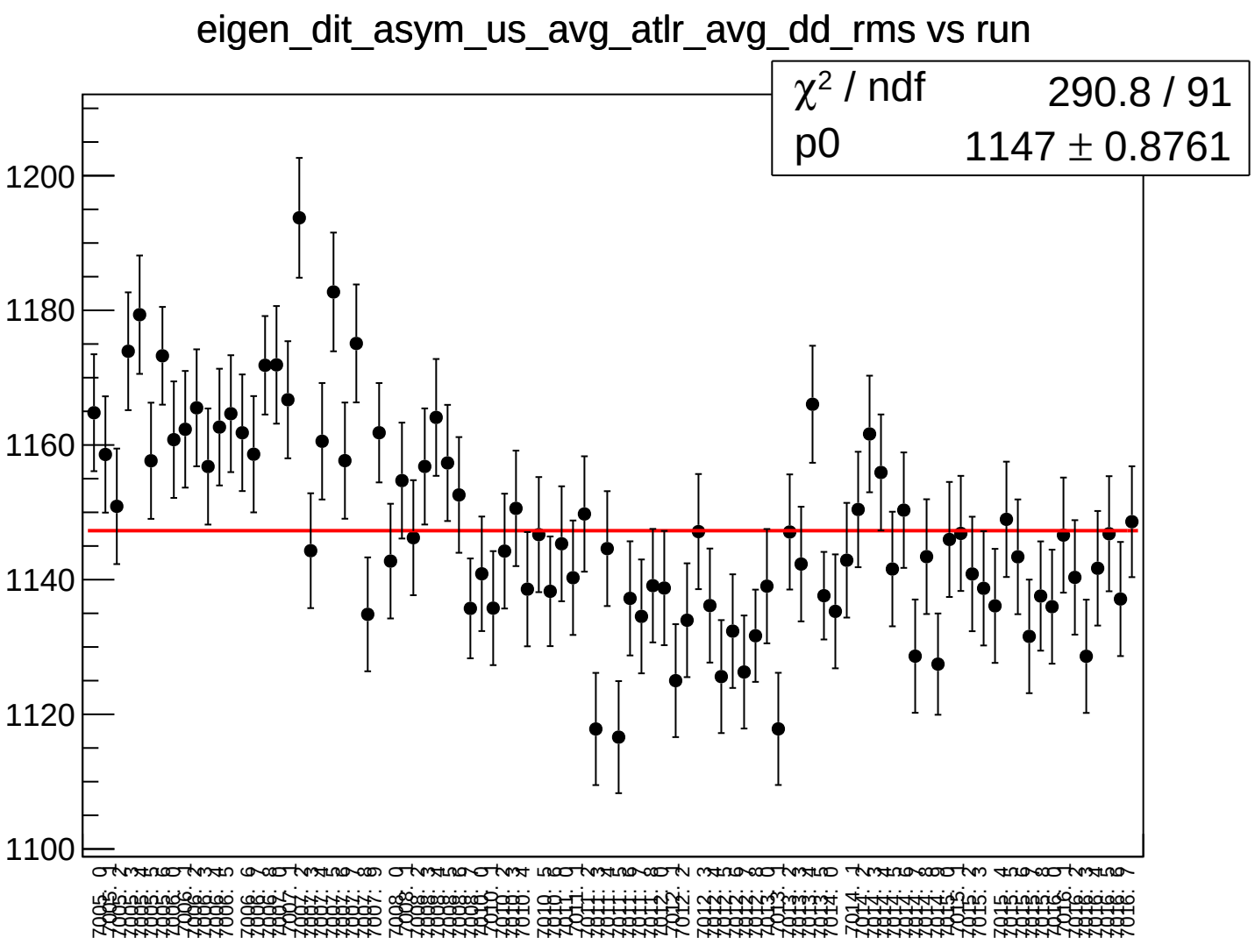

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.99 / 91
p0 1.065e+04 ± 4009
pull
Entries 92
Mean 1120
Std Dev 0

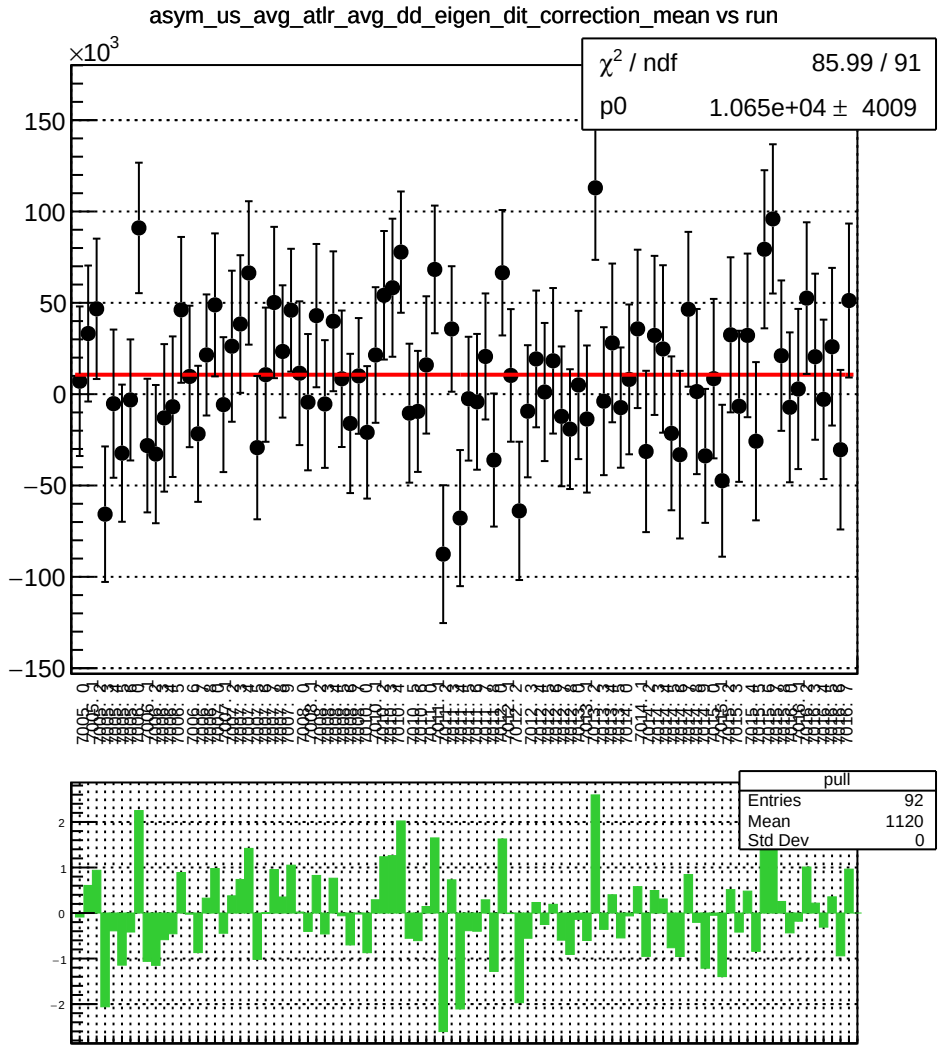

pull1D
Entries 92
Mean 0.0004622
Std Dev 0.9668

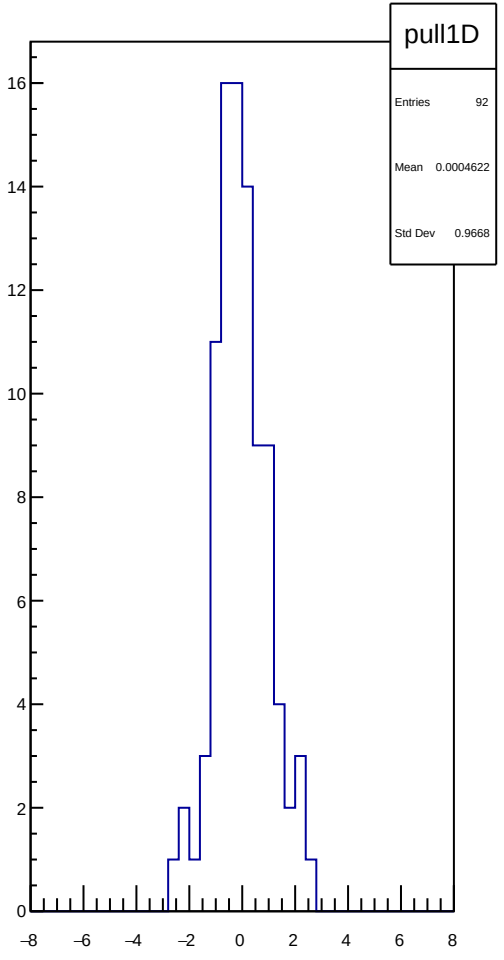

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.021e+04 / 91
p0 3702 ± 2.835
4400
4200
4000
3800
3600
3400
3200
3000

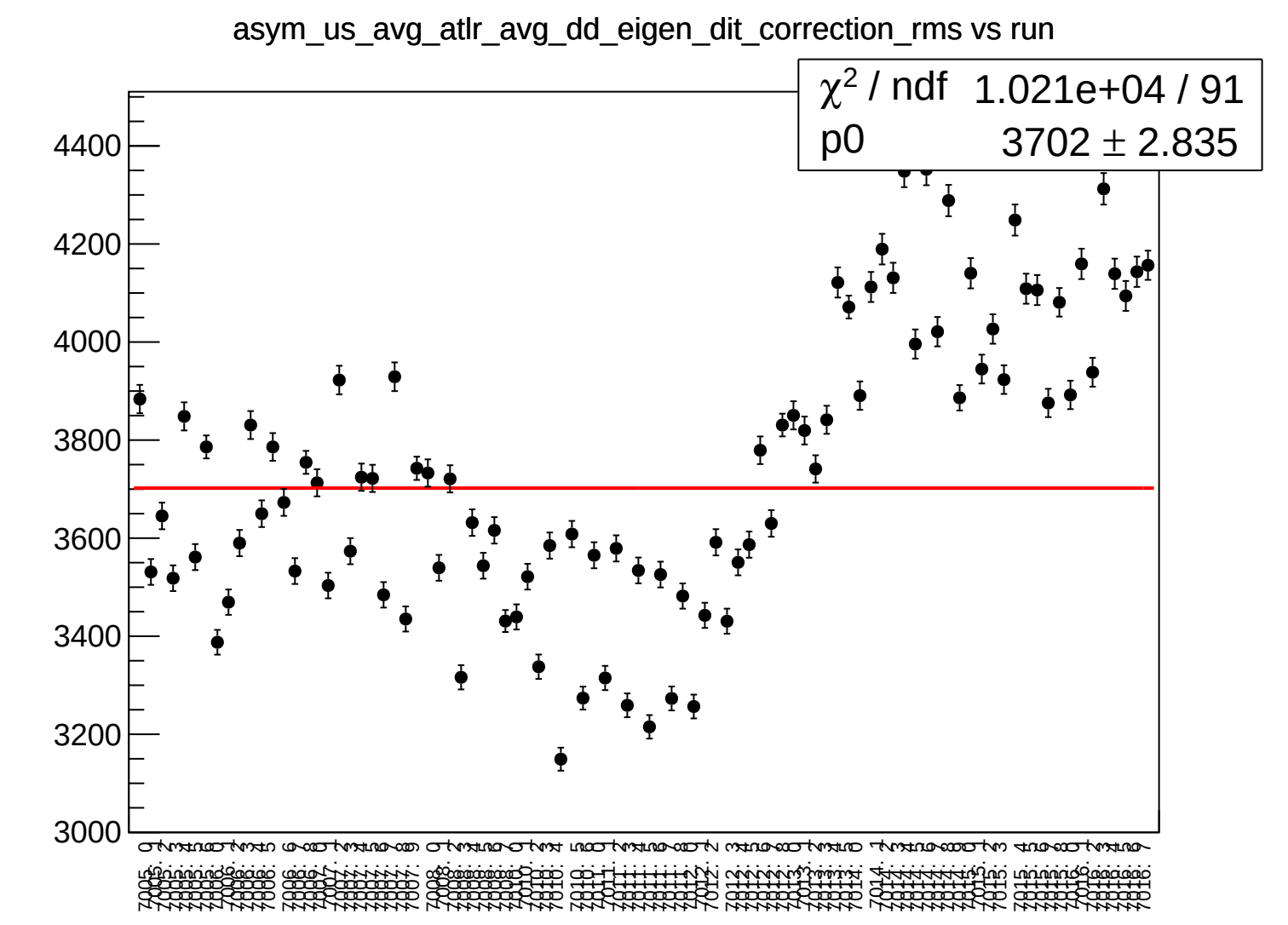

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 88.98 / 91
p0 3074 ± 1239
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −210.9
Std Dev 0
3
2
1
0
−1
−2

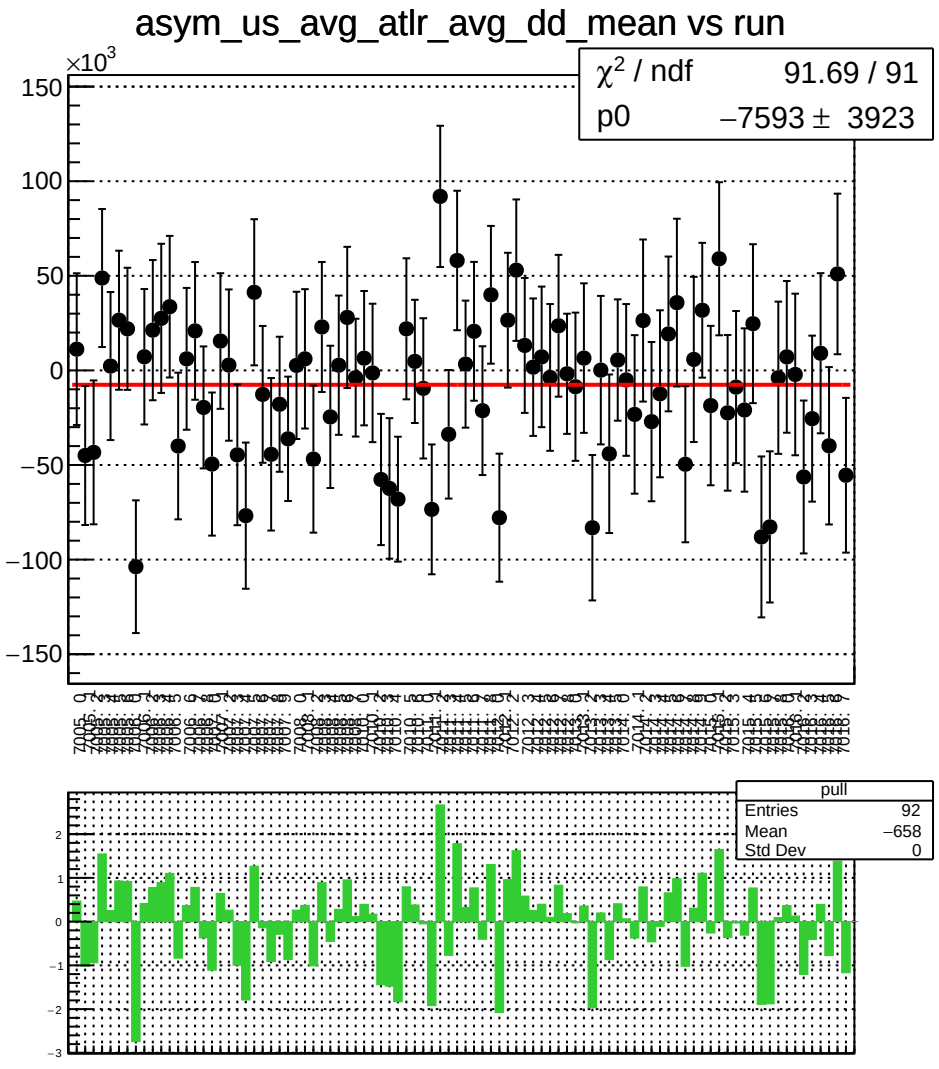

pull1D
Entries 92
Mean 0.004663
Std Dev 0.9834
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

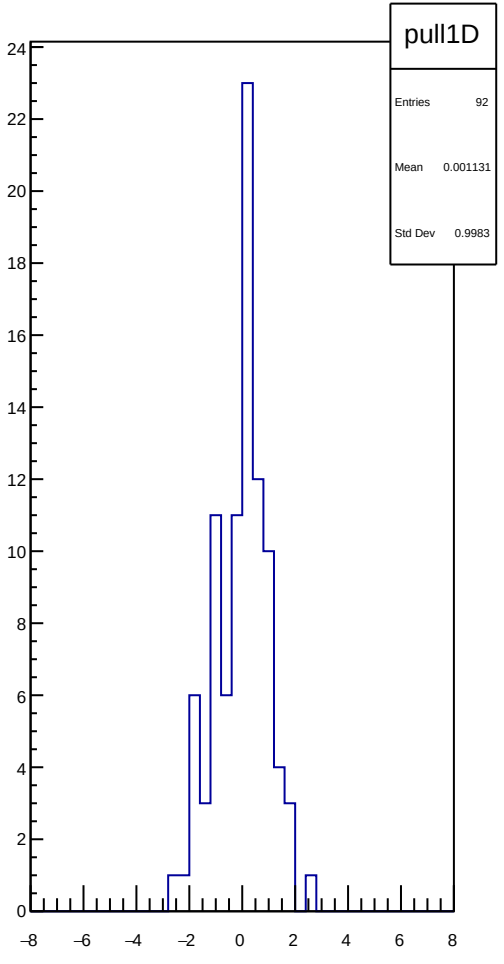

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 290.8 / 91
p0 1147 ± 0.8761
1200
1180
1160
1140
1120
1100

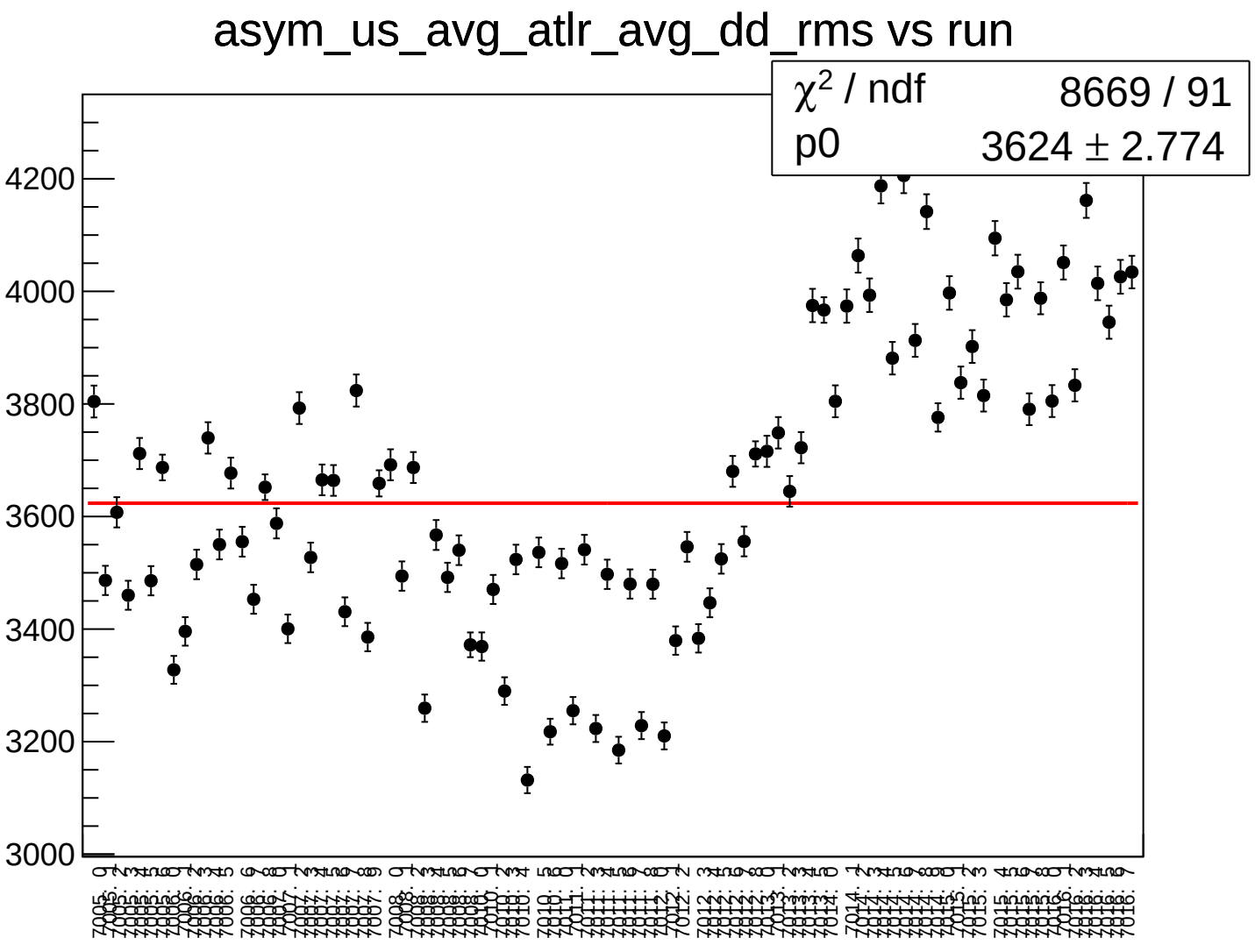

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.99 / 91
p0 1.065e+04 ± 4009
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 1120
Std Dev 0
2
1
0
−1
−2

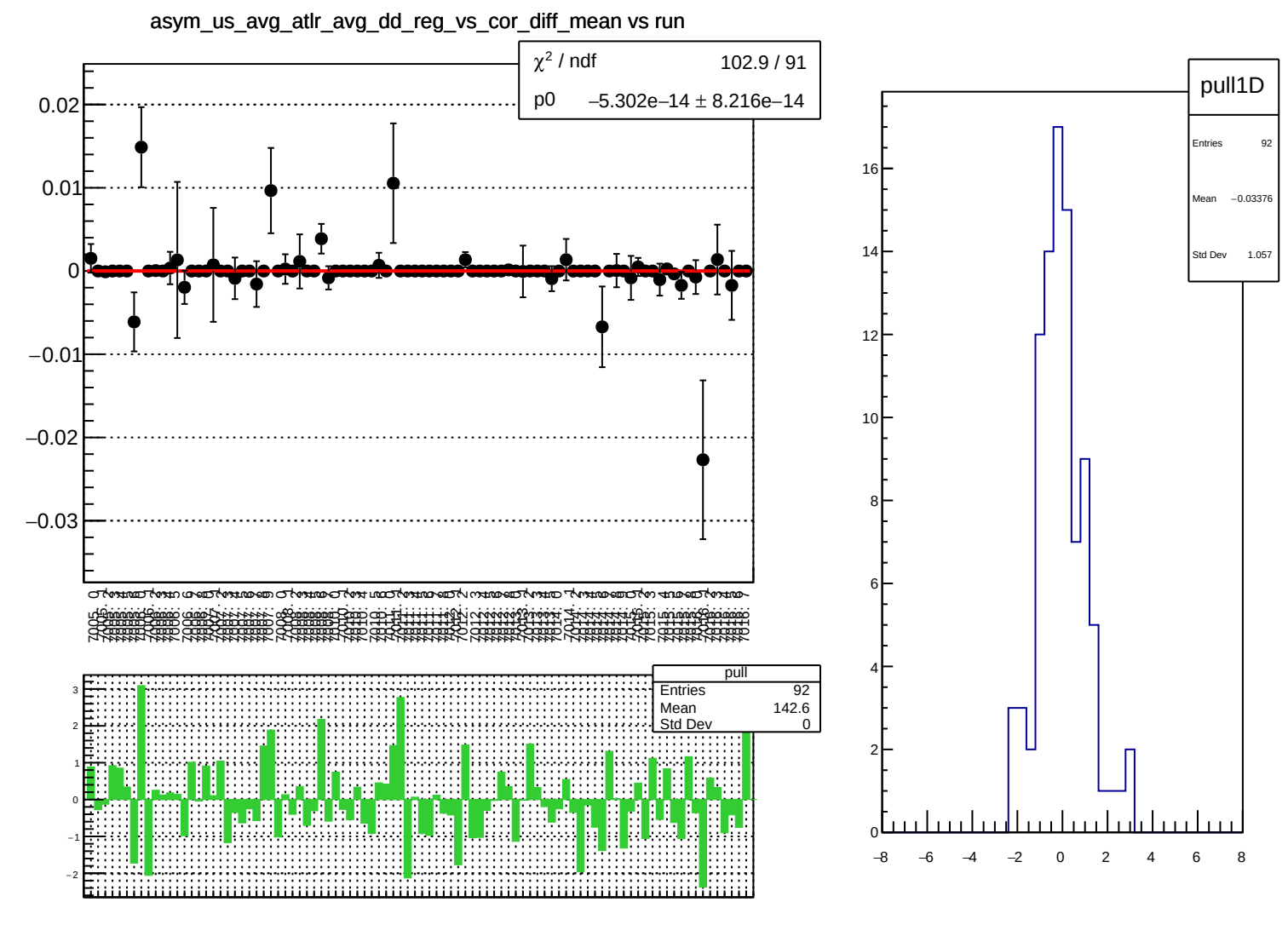

pull1D
Entries 92
Mean 0.0004622
Std Dev 0.9668
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

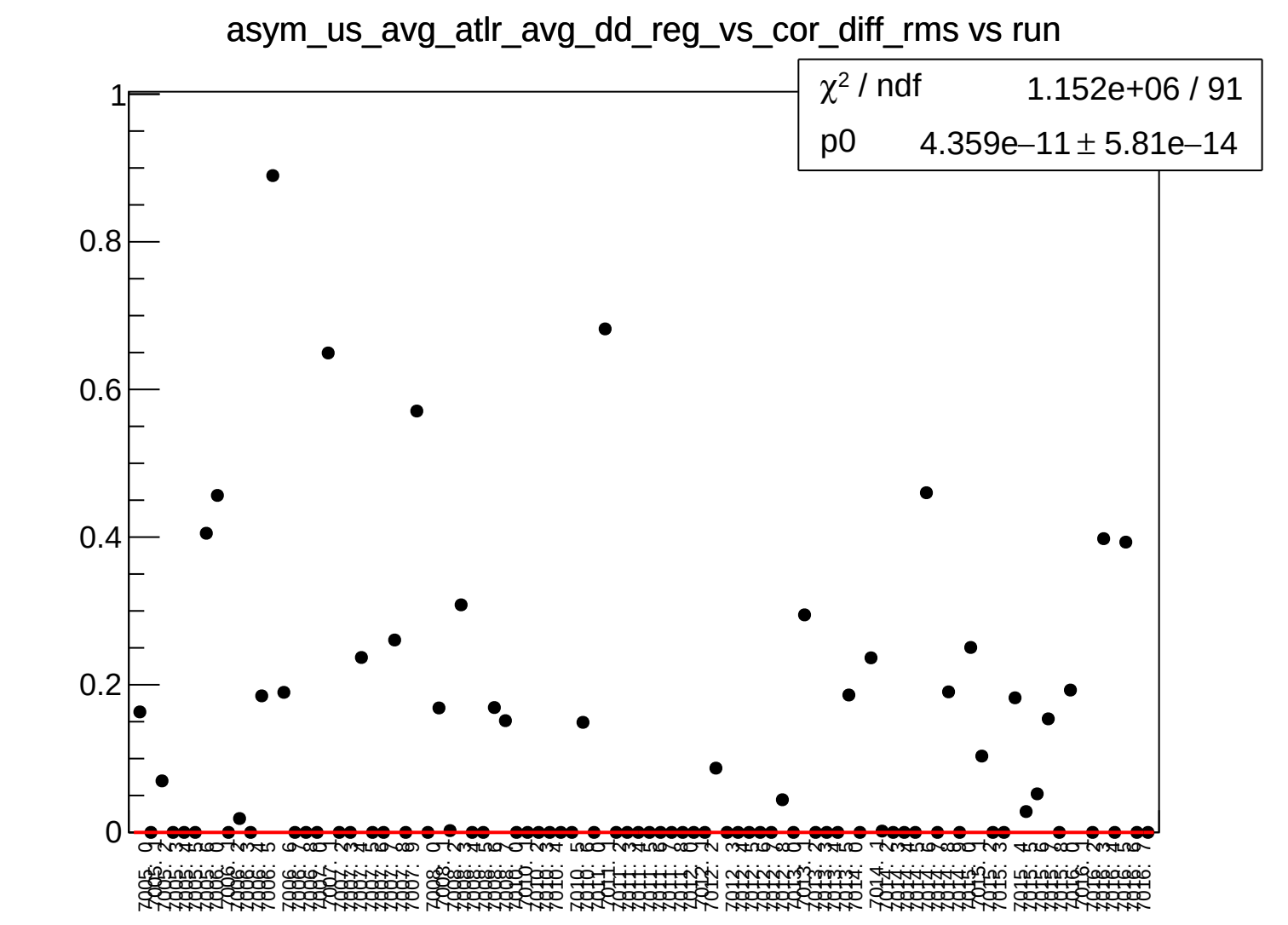

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.021e+04 / 91
p0 3702 ± 2.835
4400
4200
4000
3800
3600
3400
3200
3000

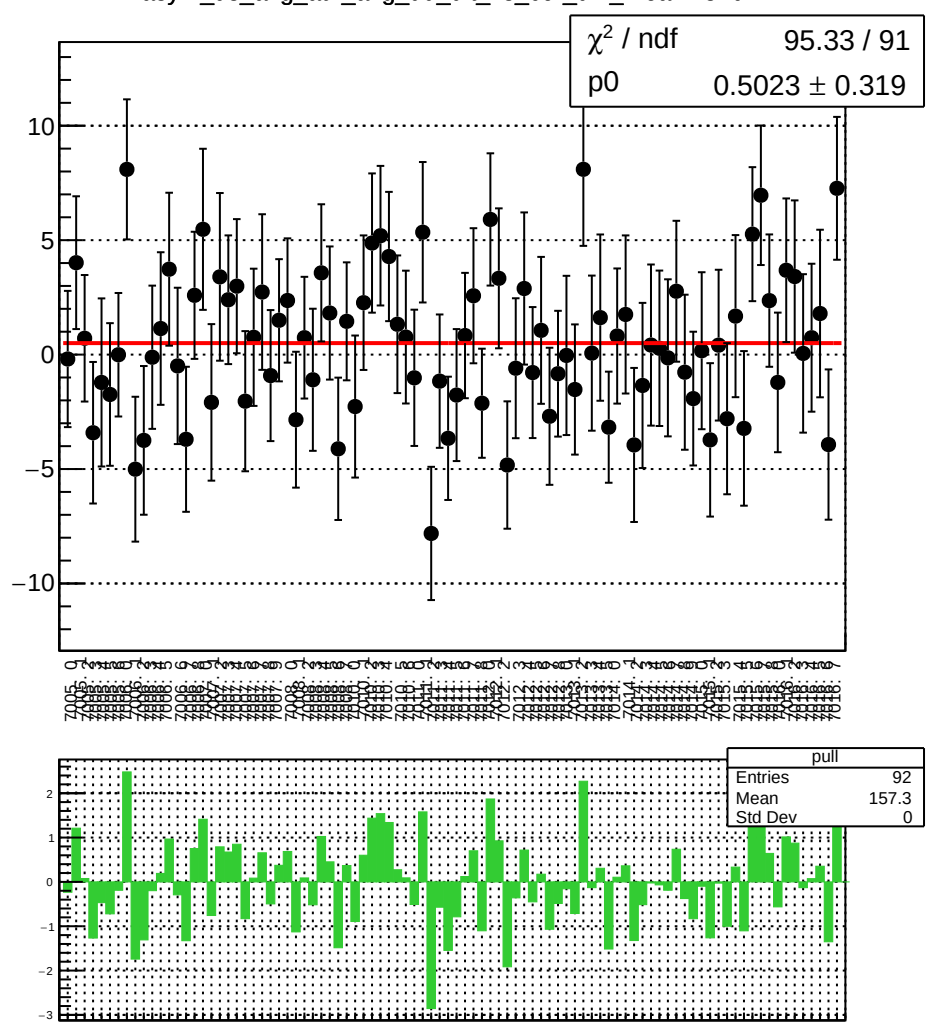

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 91.69 / 91
p0 −7593 ± 3923
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −658
Std Dev 0
2
1
0
−1
−2
−3

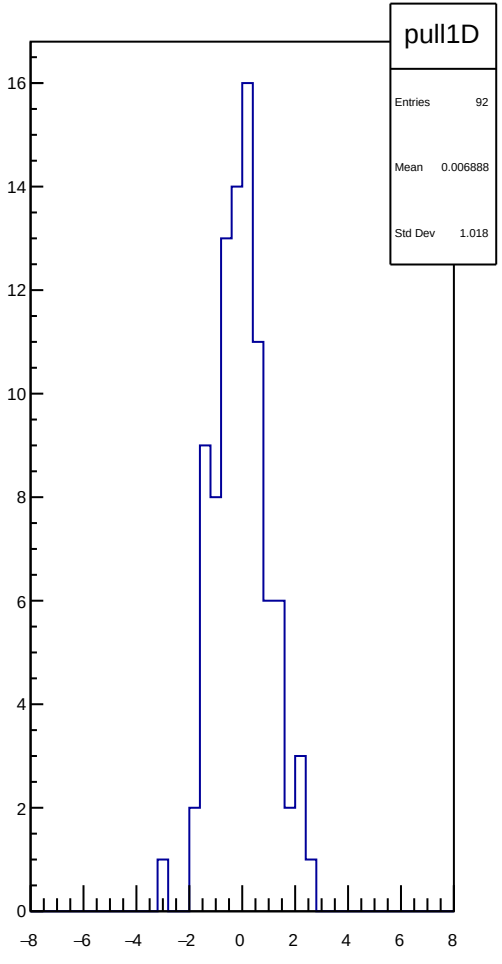

pull1D
Entries 92
Mean 0.001131
Std Dev 0.9983
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

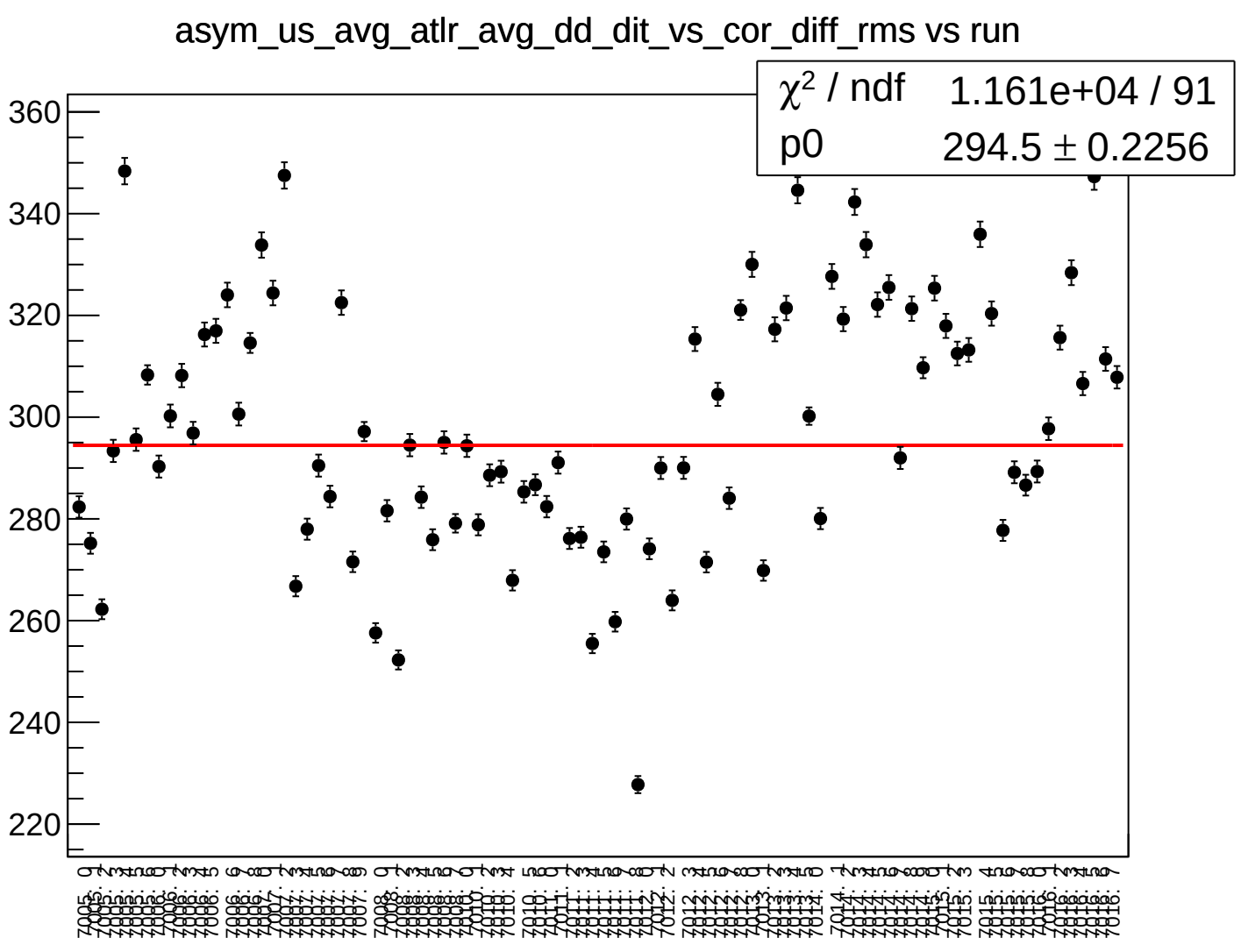

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 8669 / 91
p0 3624 ± 2.774
4200
4000
3800
3600
3400
3200
3000

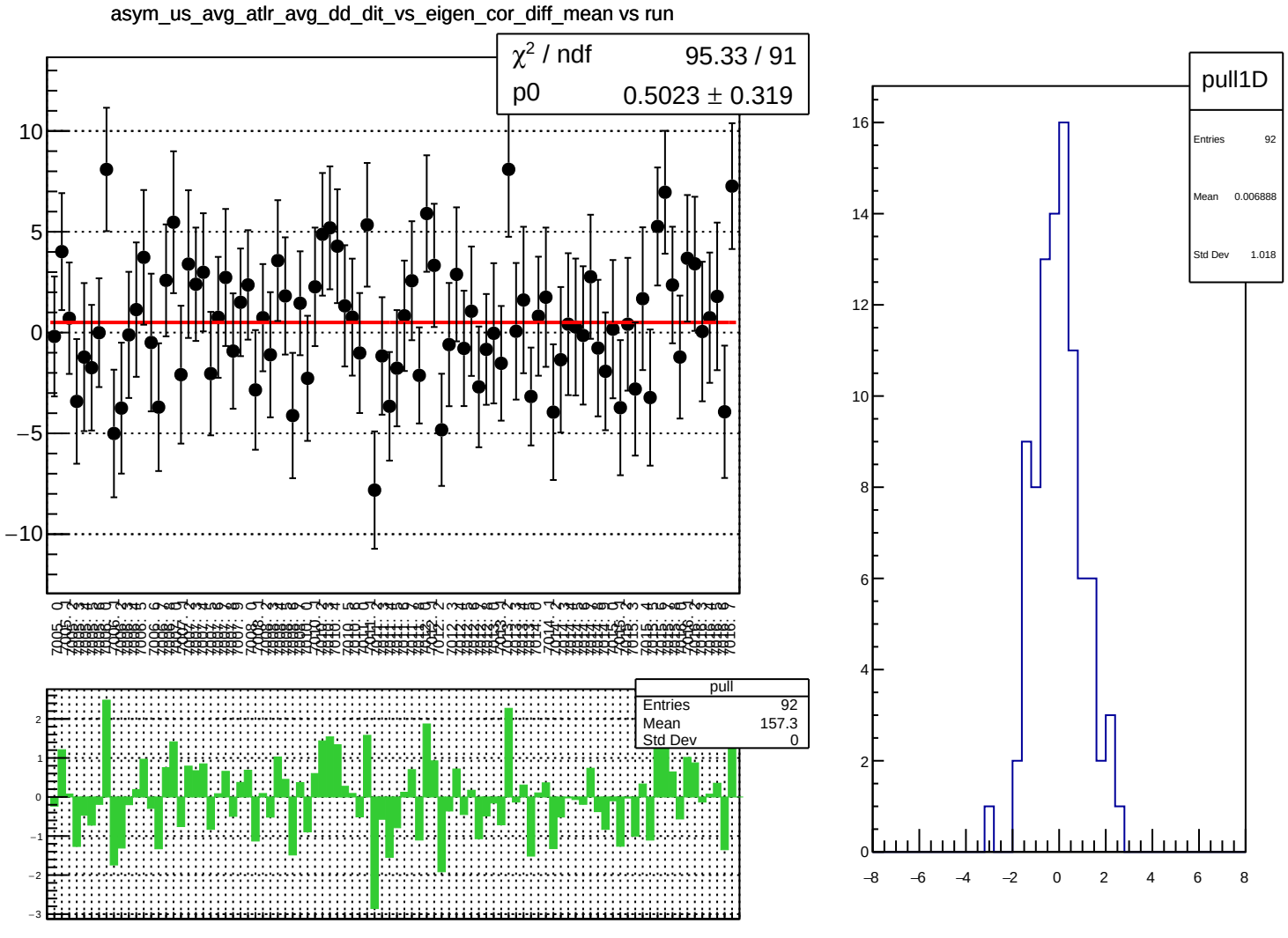

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 91
p0 −5.302e−14 ± 8.216e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean 142.6
Std Dev 0
pull1D
Entries 92
Mean −0.03376
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

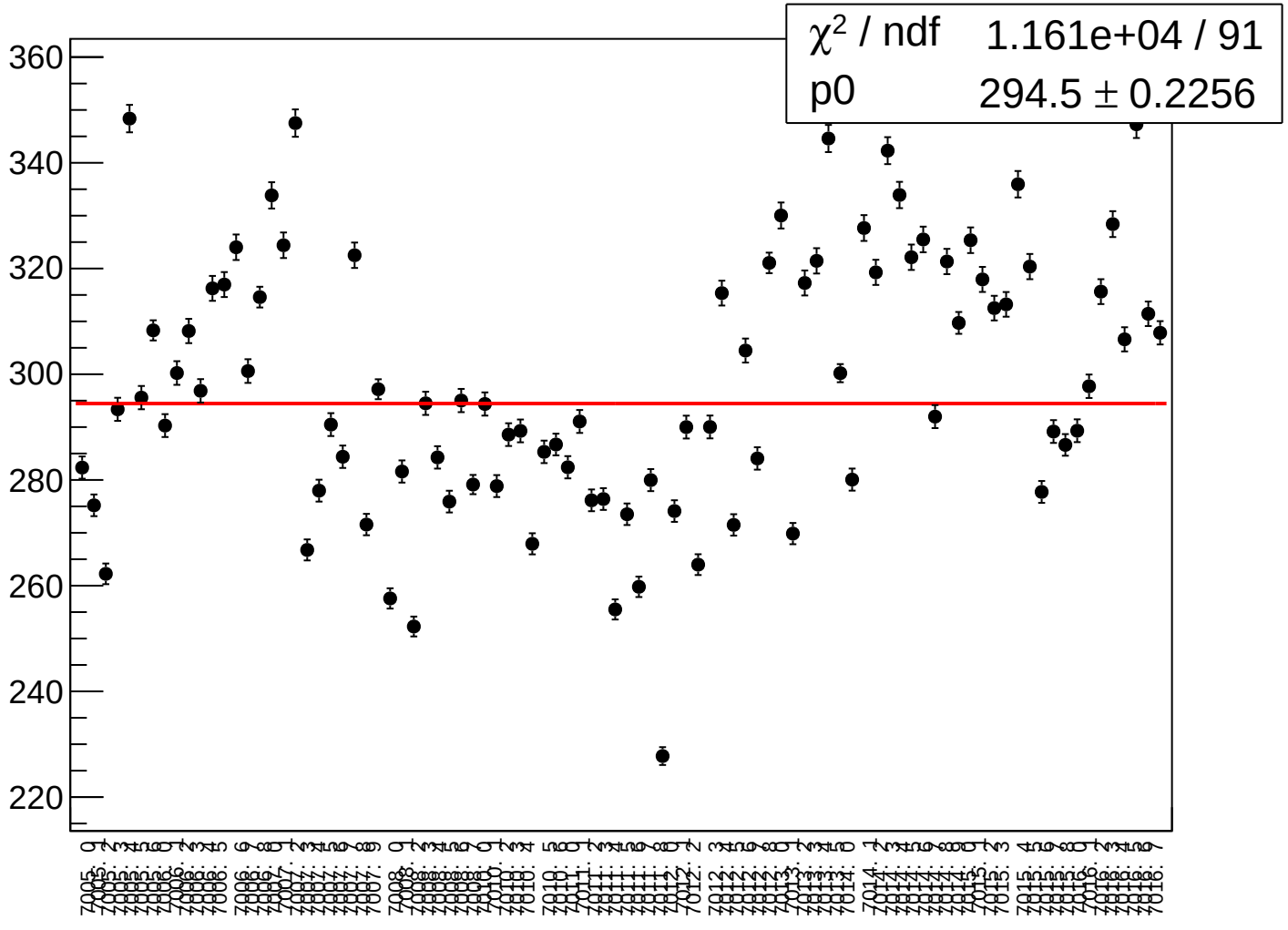

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.152e+06 / 91
p0 4.359e−11 ± 5.81e−14
1
0.8
0.6
0.4
0.2
0

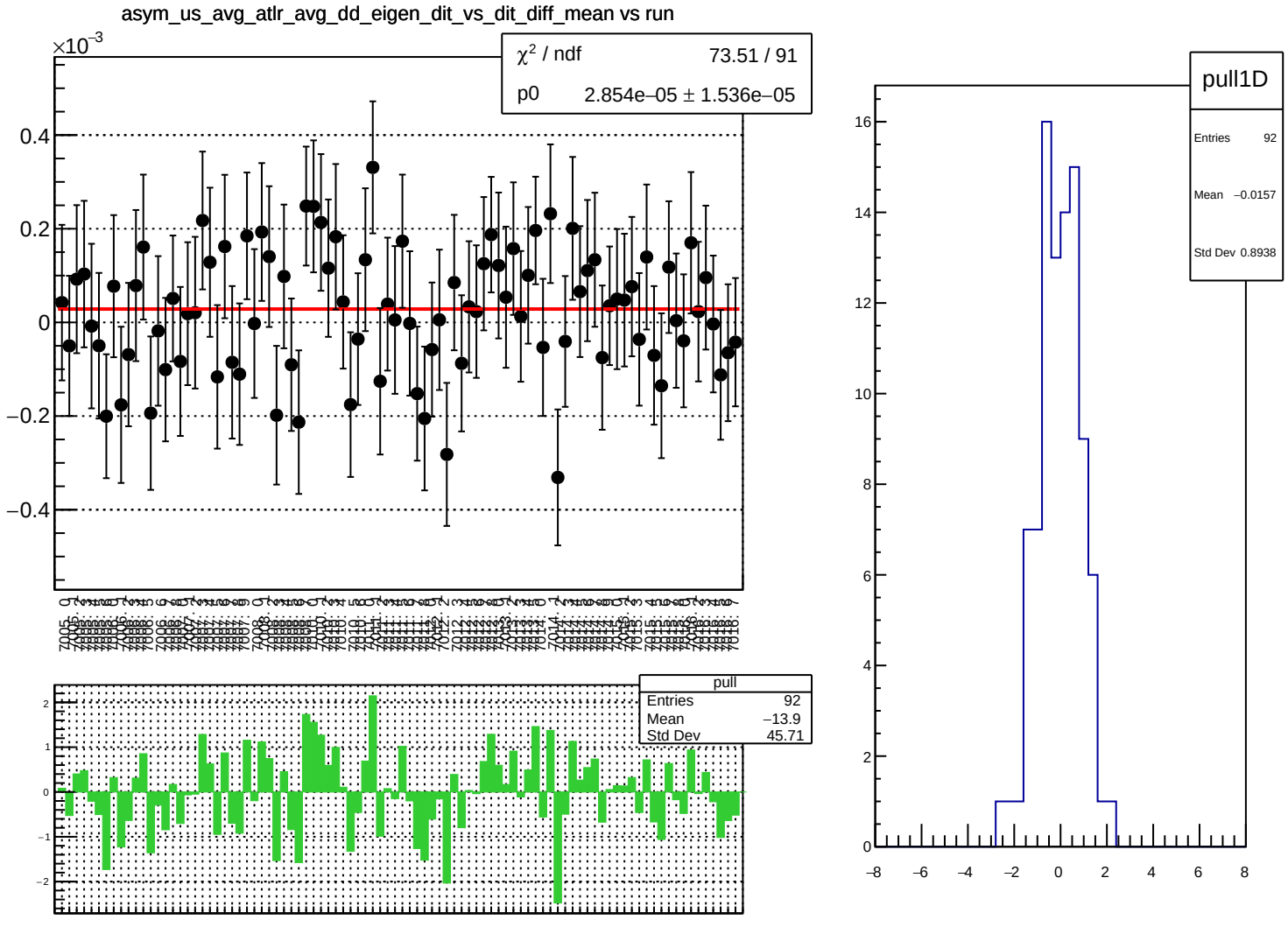

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.33 / 91
p0 0.5023 ± 0.319
pull
Entries 92
Mean 157.3
Std Dev 0

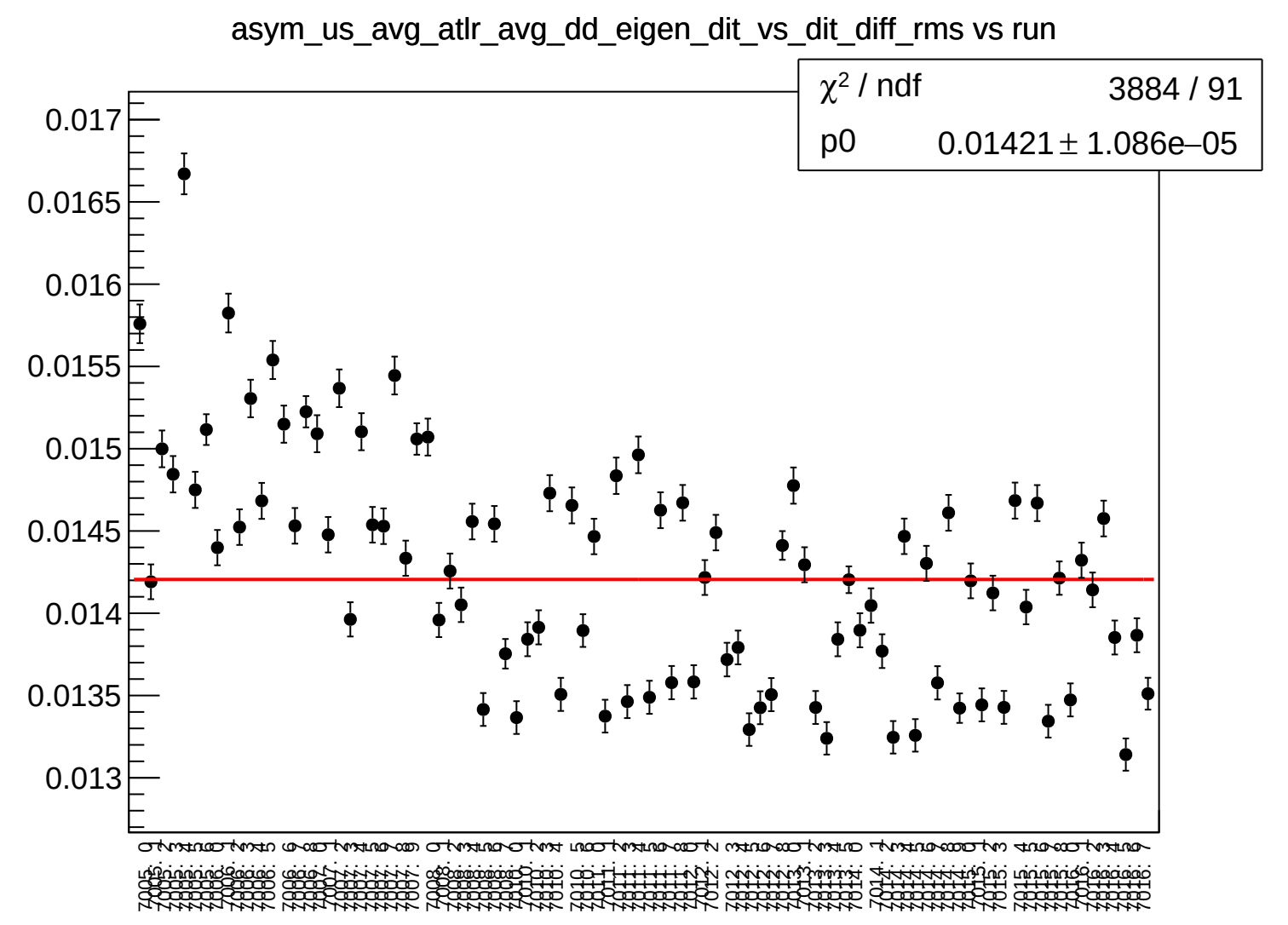

pull1D
Entries 92
Mean 0.006888
Std Dev 1.018

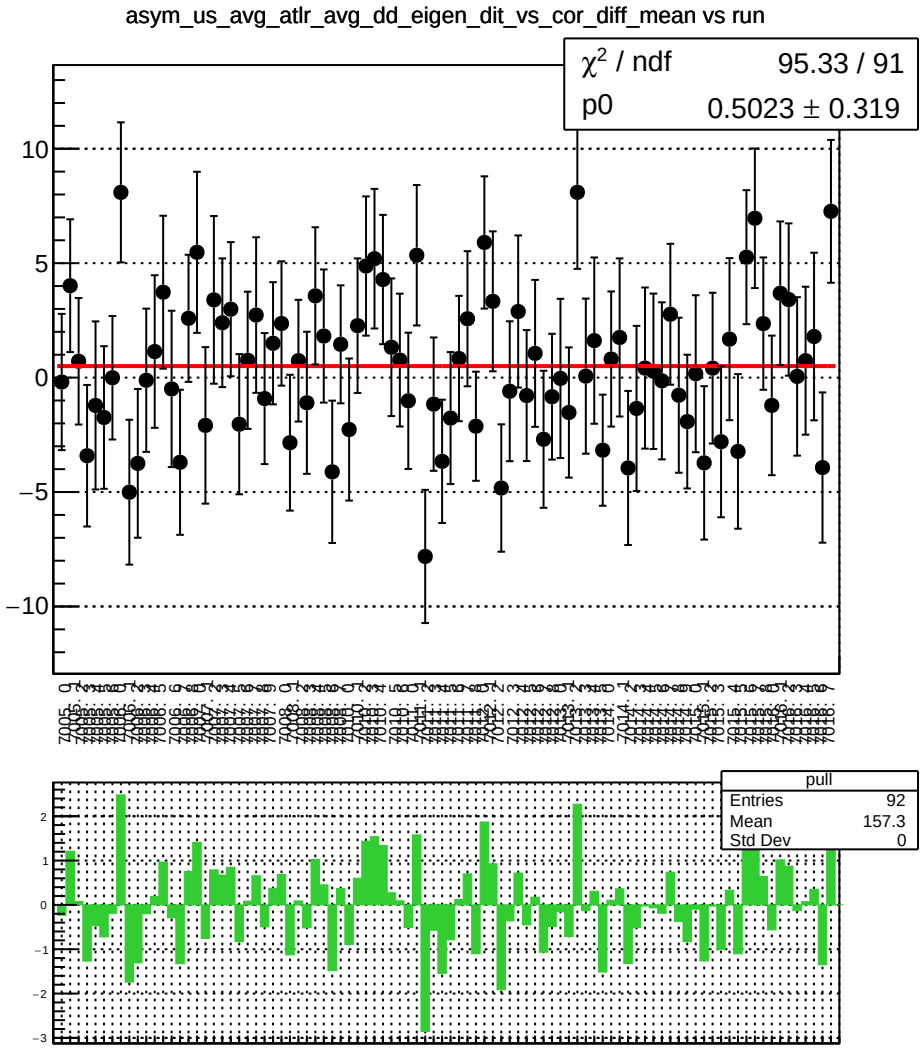

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.161e+04 / 91
p0 294.5 ± 0.2256
360
340
320
300
280
260
240
220

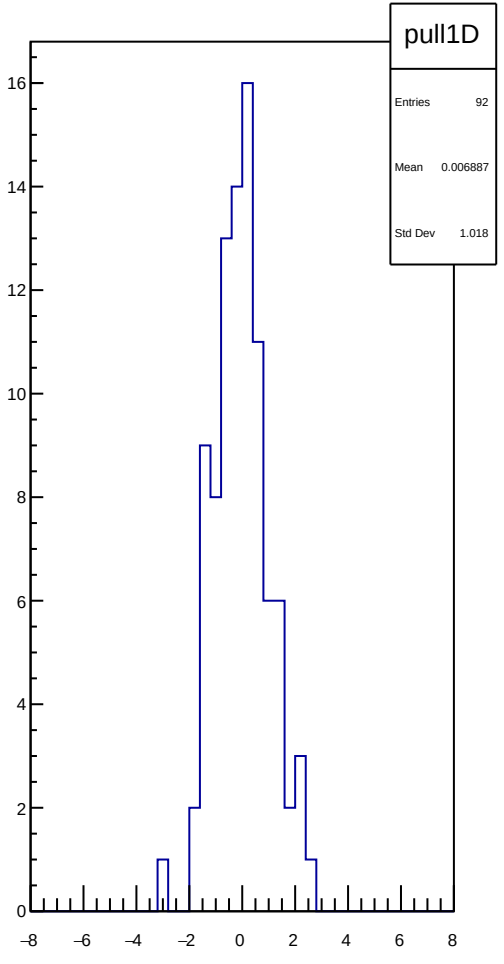

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.33 / 91
p0 0.5023 ± 0.319
pull
Entries 92
Mean 157.3
Std Dev 0
pull1D
Entries 92
Mean 0.006888
Std Dev 1.018

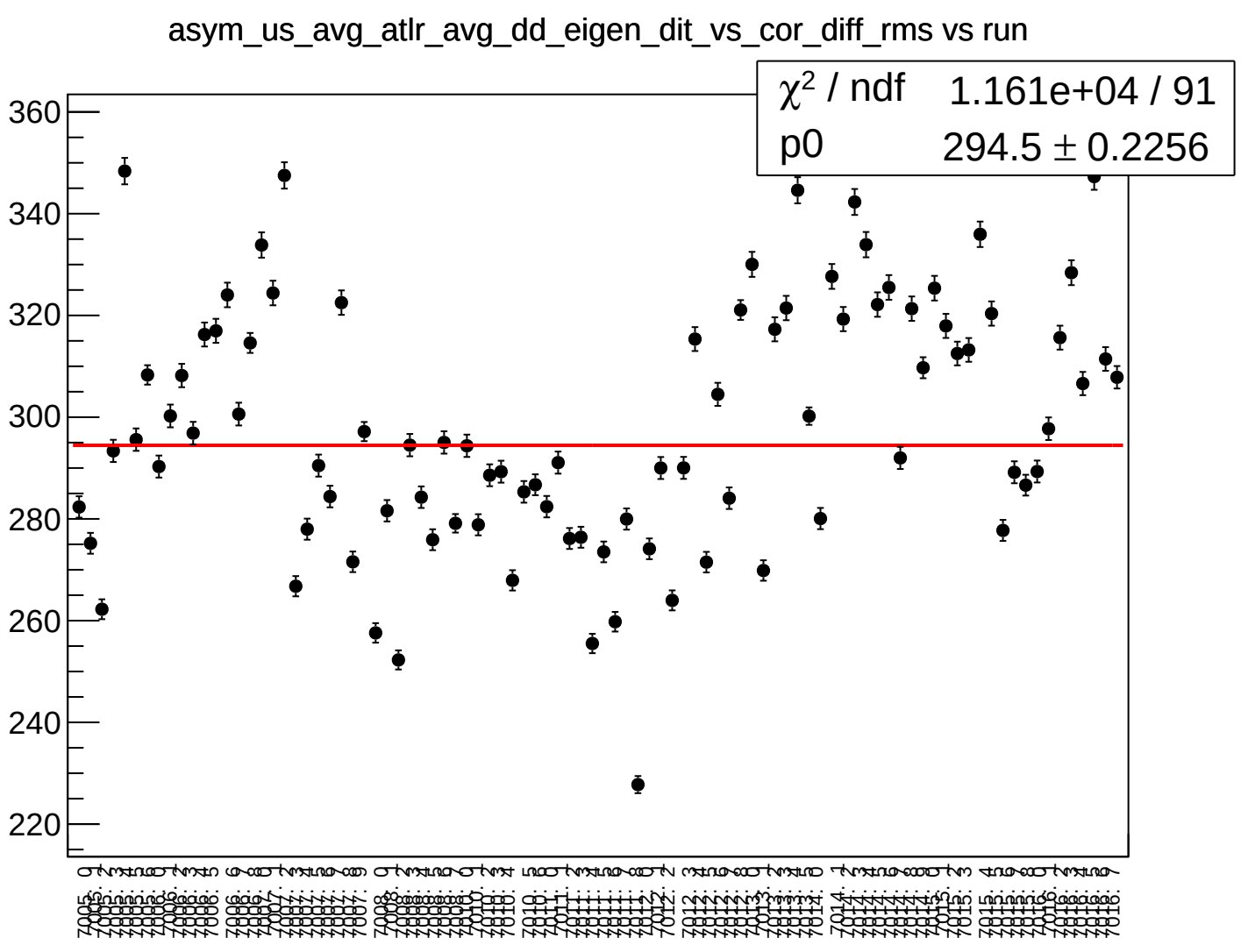

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.161e+04 / 91
p0 294.5 ± 0.2256
360
340
320
300
280
260
240
220

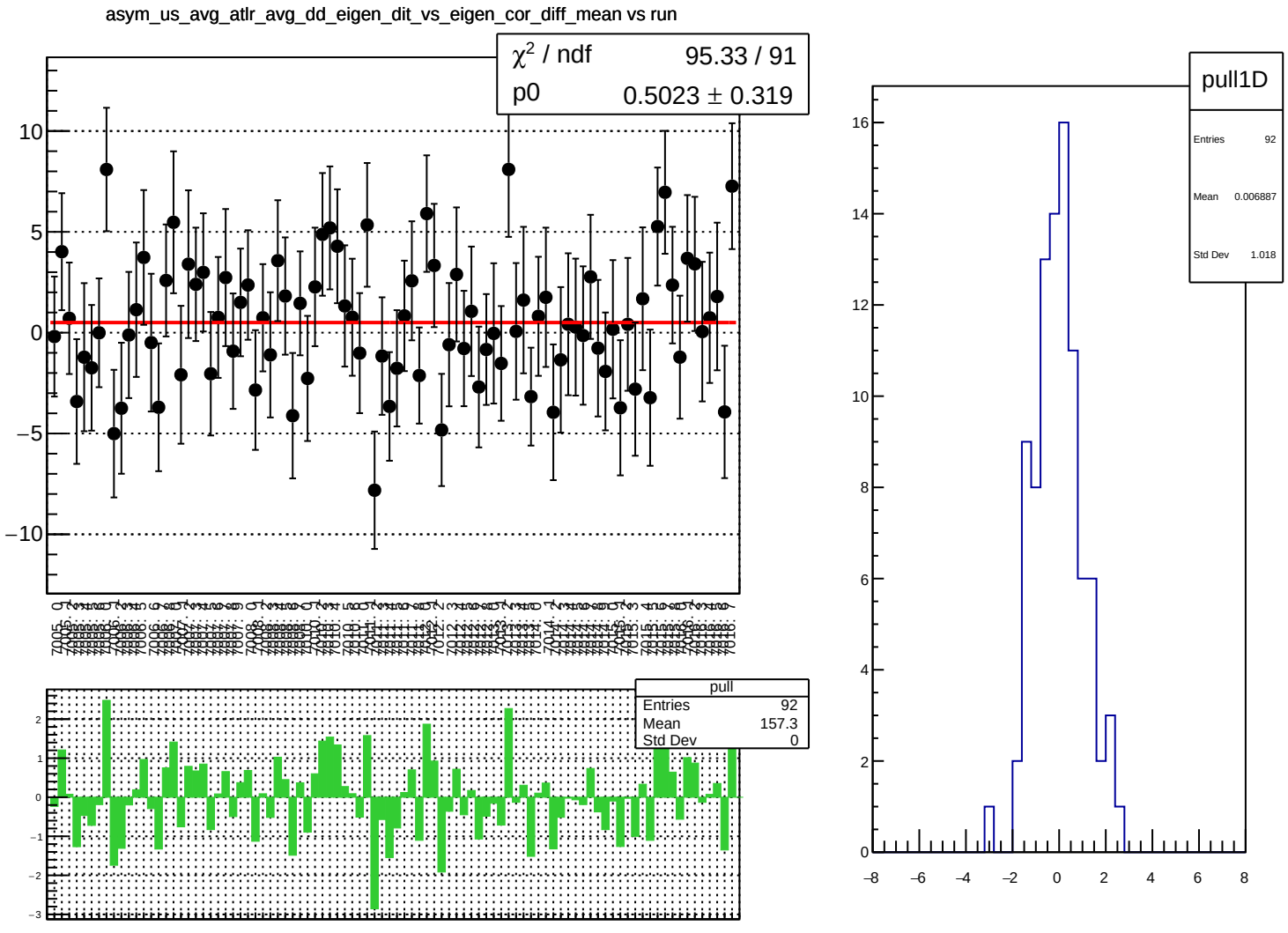

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.51 / 91
p0 2.854e−05 ± 1.536e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean −13.9
Std Dev 45.71
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0157
Std Dev 0.8938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

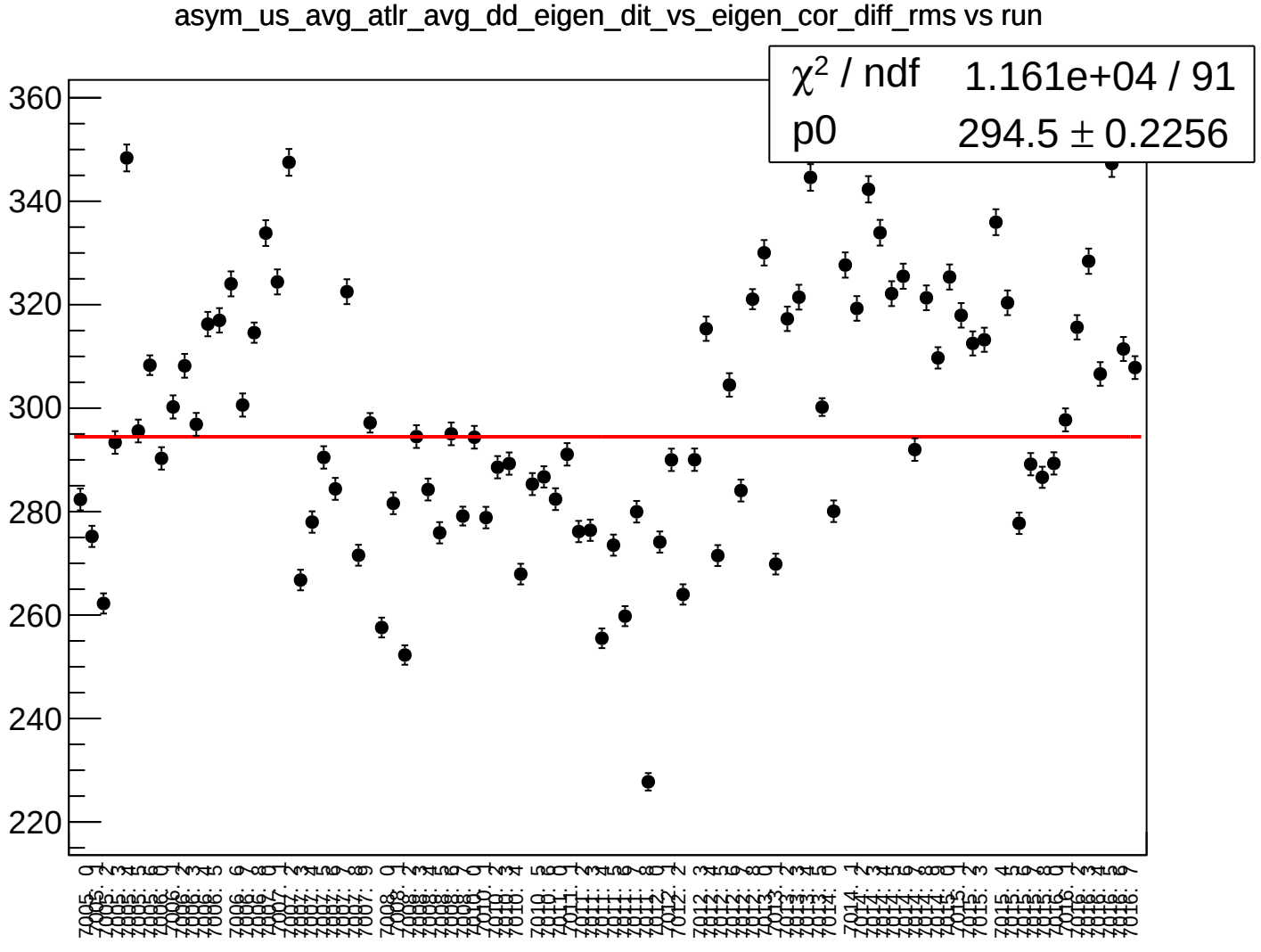

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3884 / 91
p0 0.01421 ± 1.086e–05
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013

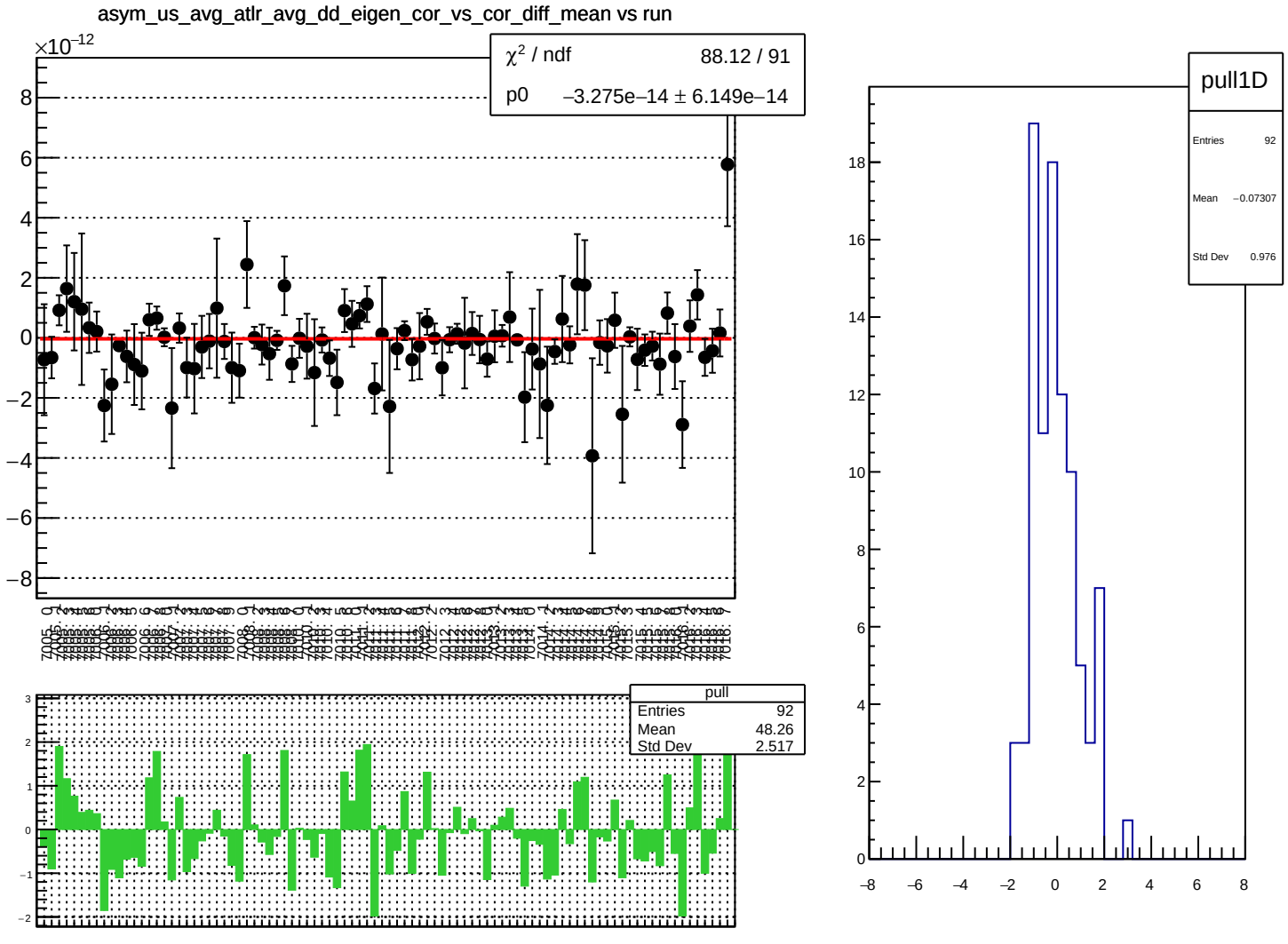

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.33 / 91
p0 0.5023 ± 0.319
pull
Entries 92
Mean 157.3
Std Dev 0

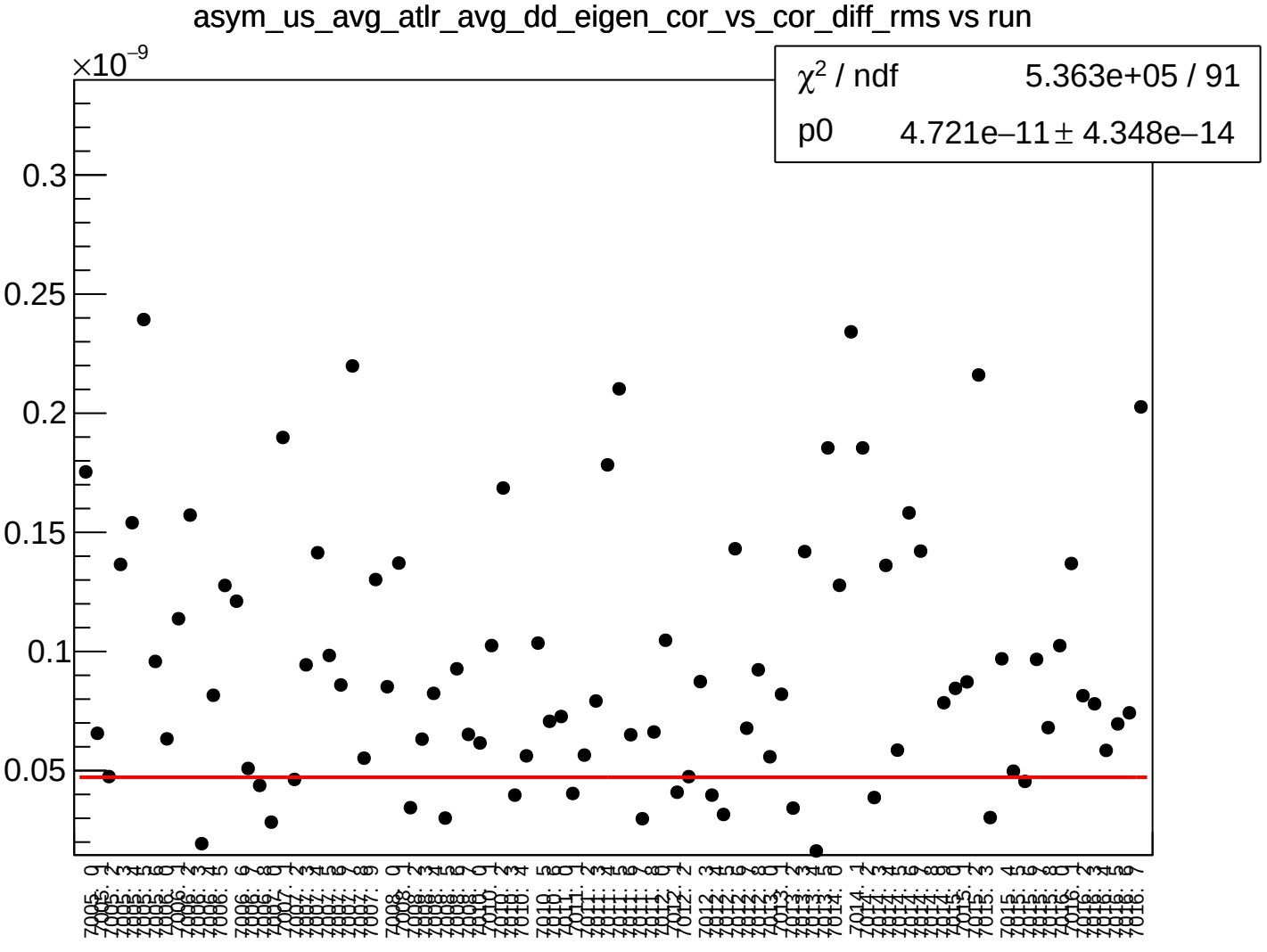

pull1D
Entries 92
Mean 0.006887
Std Dev 1.018

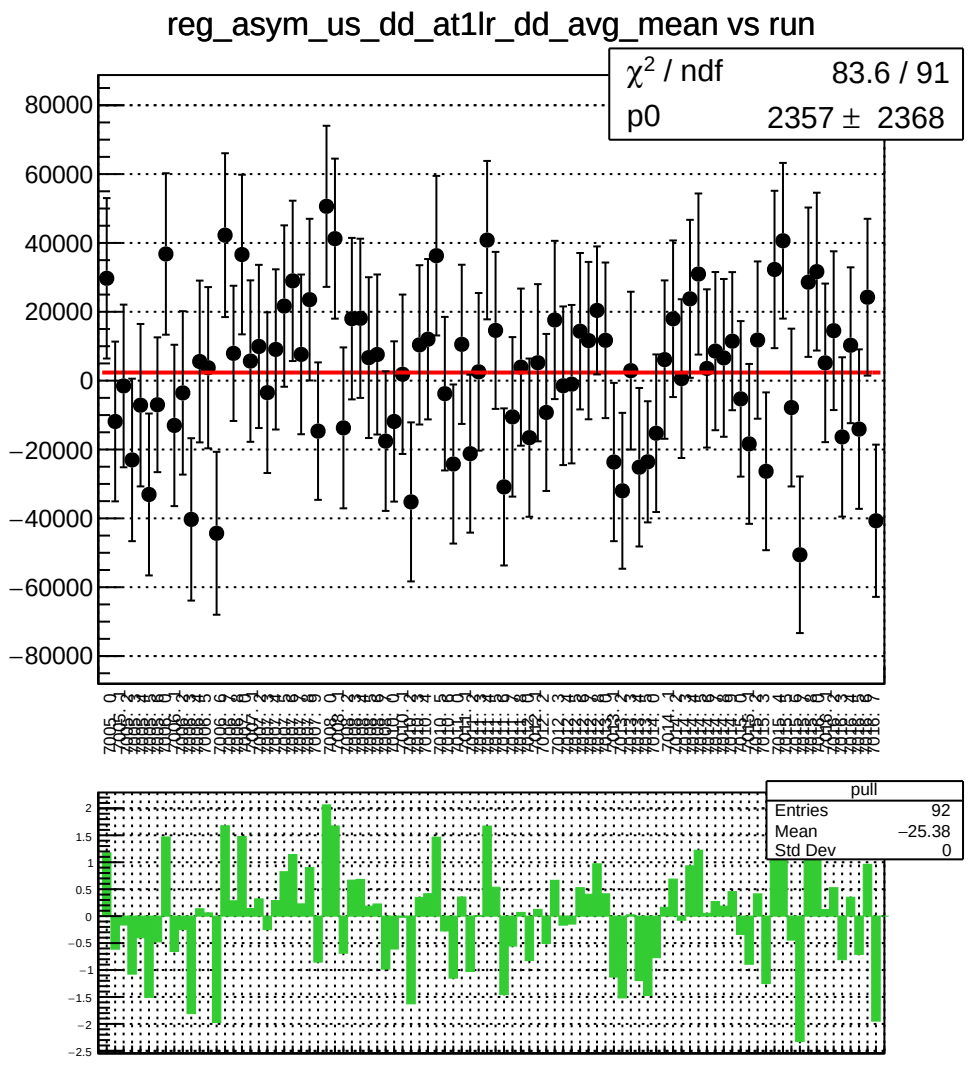

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.161e+04 / 91
p0 294.5 ± 0.2256
360
340
320
300
280
260
240
220

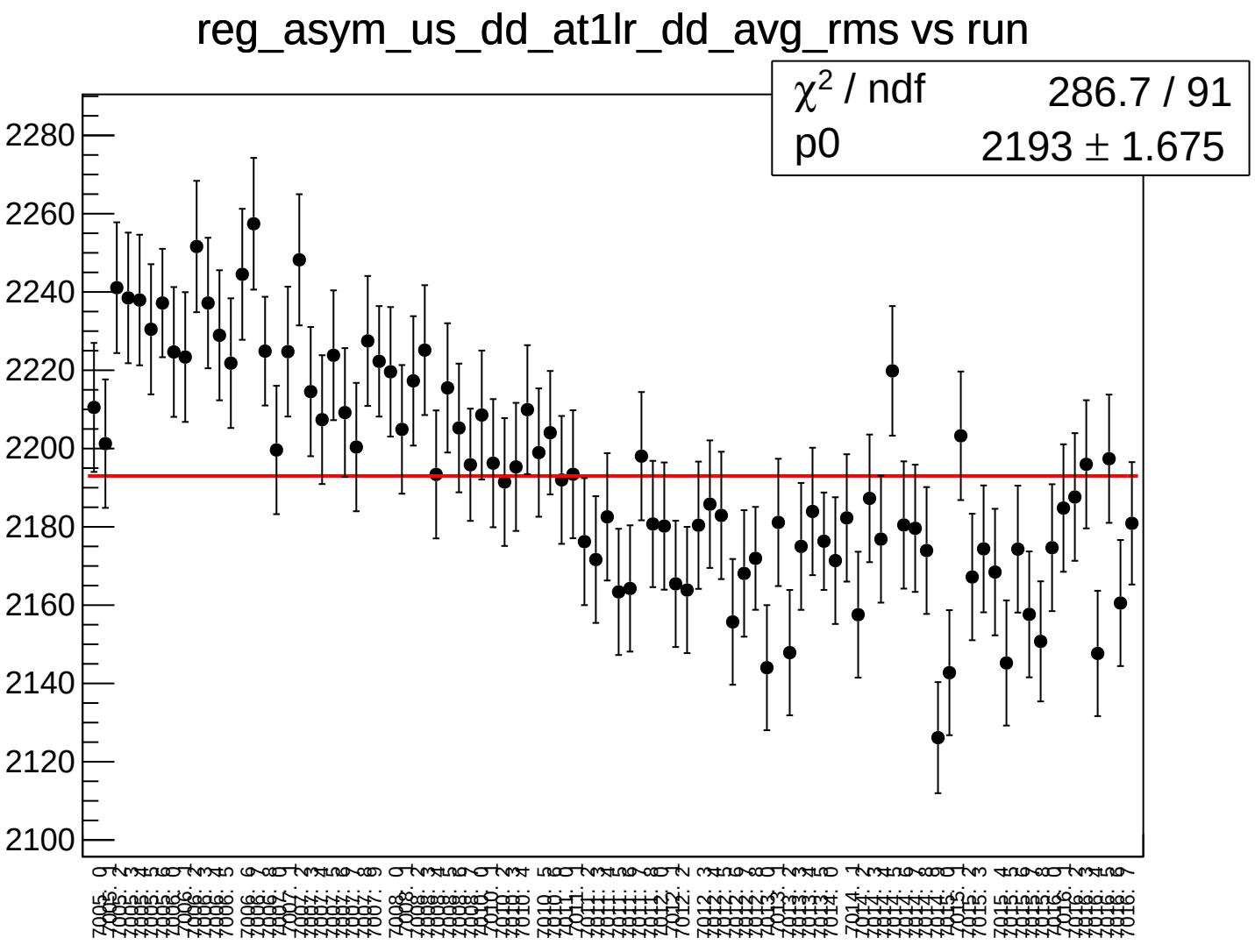

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.33 / 91
p0 0.5023 ± 0.319
pull
Entries 92
Mean 157.3
Std Dev 0
pull1D
Entries 92
Mean 0.006887
Std Dev 1.018

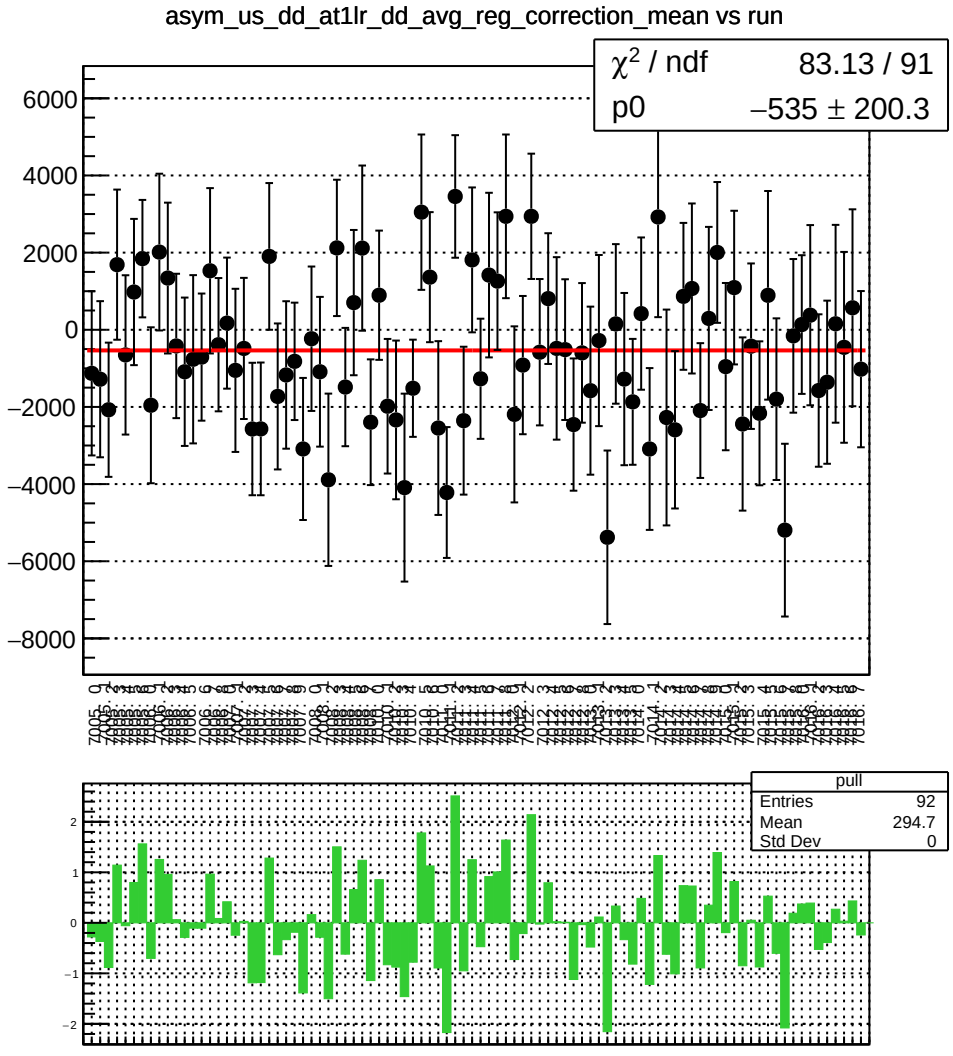

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.161e+04 / 91
p0 294.5 ± 0.2256
360
340
320
300
280
260
240
220

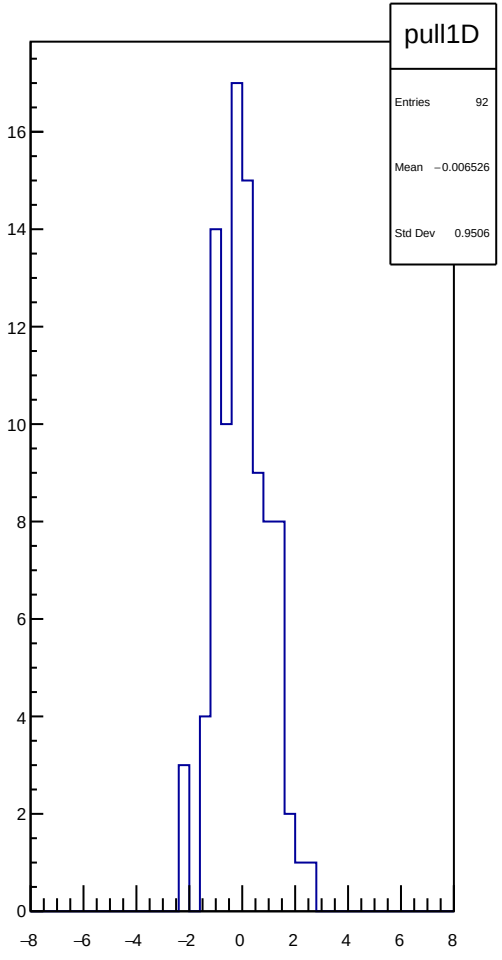

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.12 / 91
p0 −3.275e−14 ± 6.149e−14
pull
Entries 92
Mean 48.26
Std Dev 2.517
pull1D
Entries 92
Mean −0.07307
Std Dev 0.976

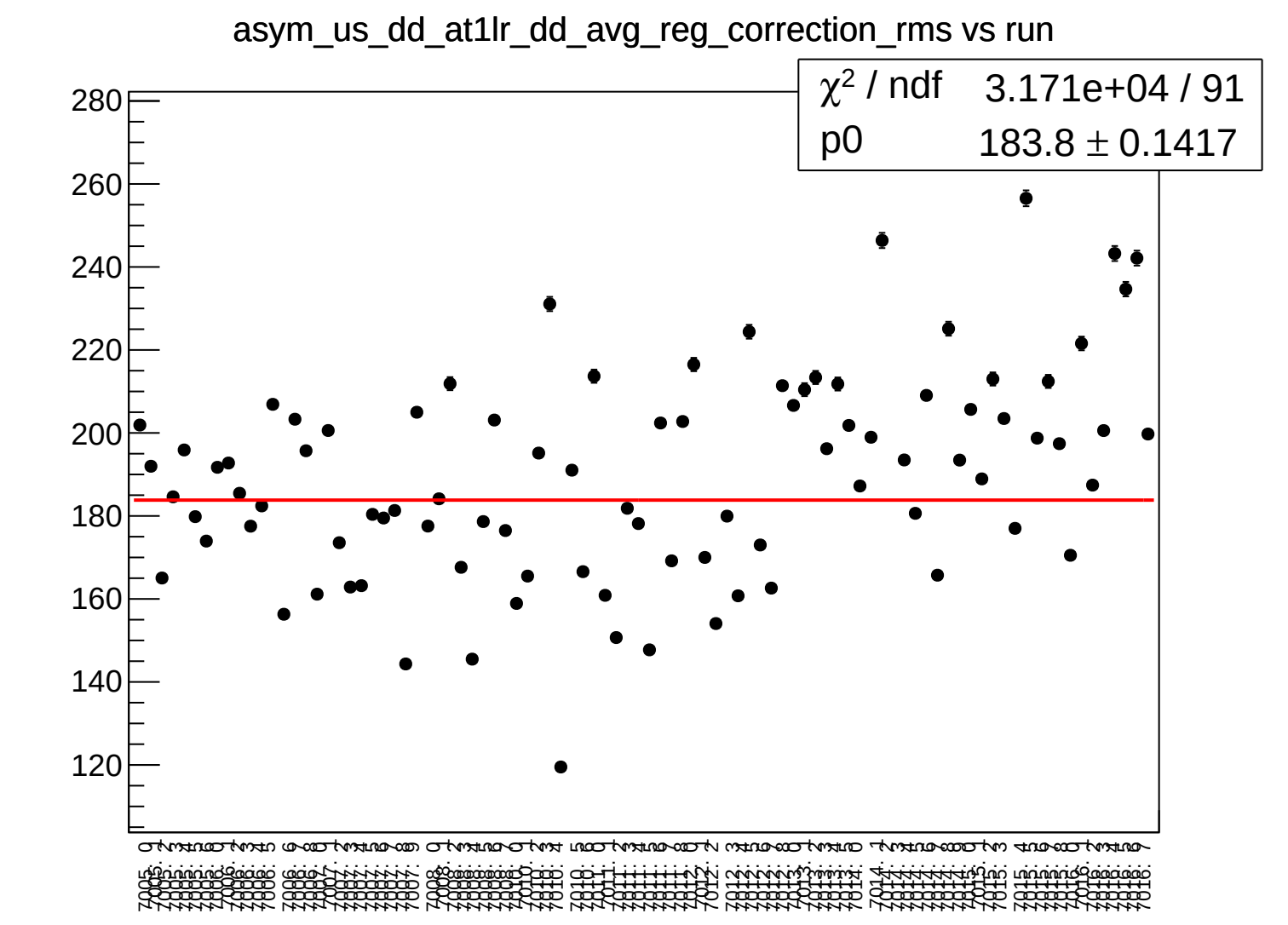

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.363e+05 / 91
p0 4.721e−11 ± 4.348e−14
0.3
0.25
0.2
0.15
0.1
0.05

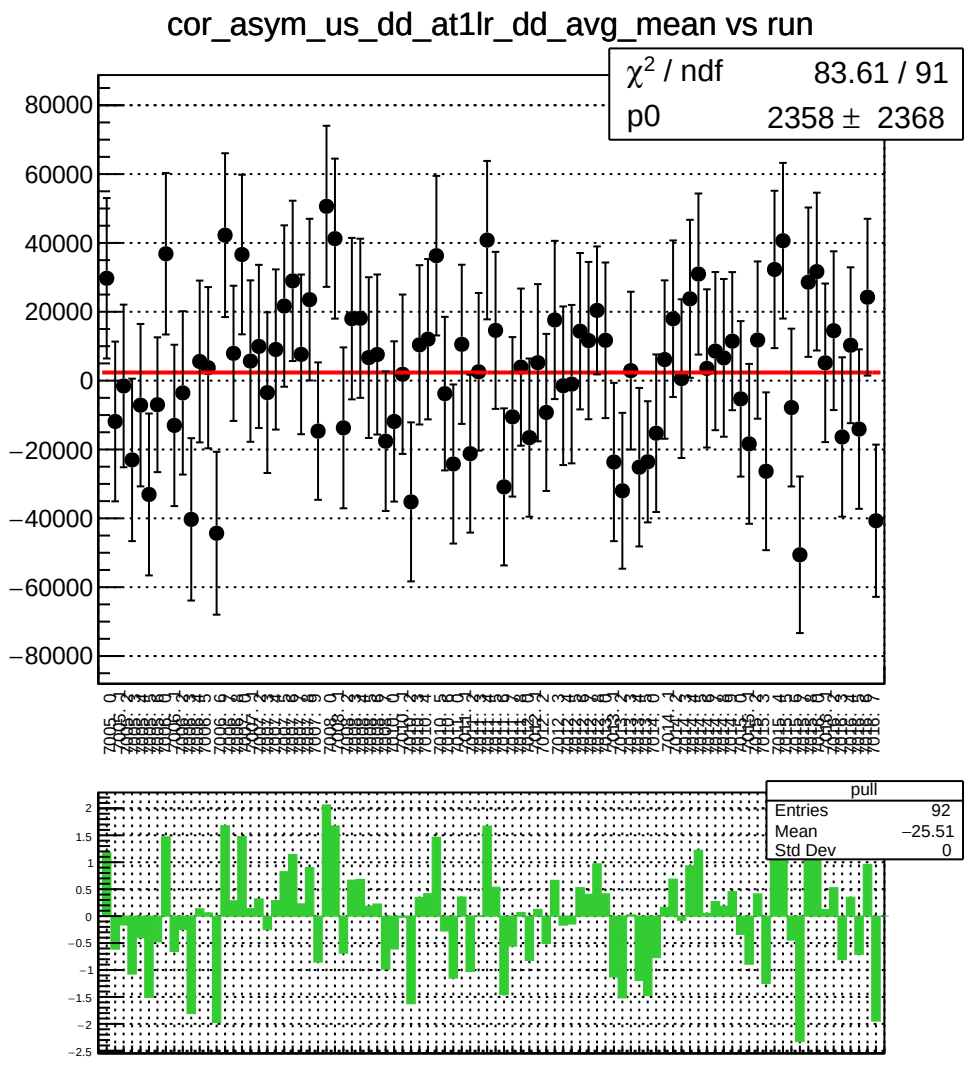

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 83.6 / 91
p0 2357 ± 2368
pull
Entries 92
Mean −25.38
Std Dev 0
pull1D
Entries 92
Mean 0.005432
Std Dev 0.9532

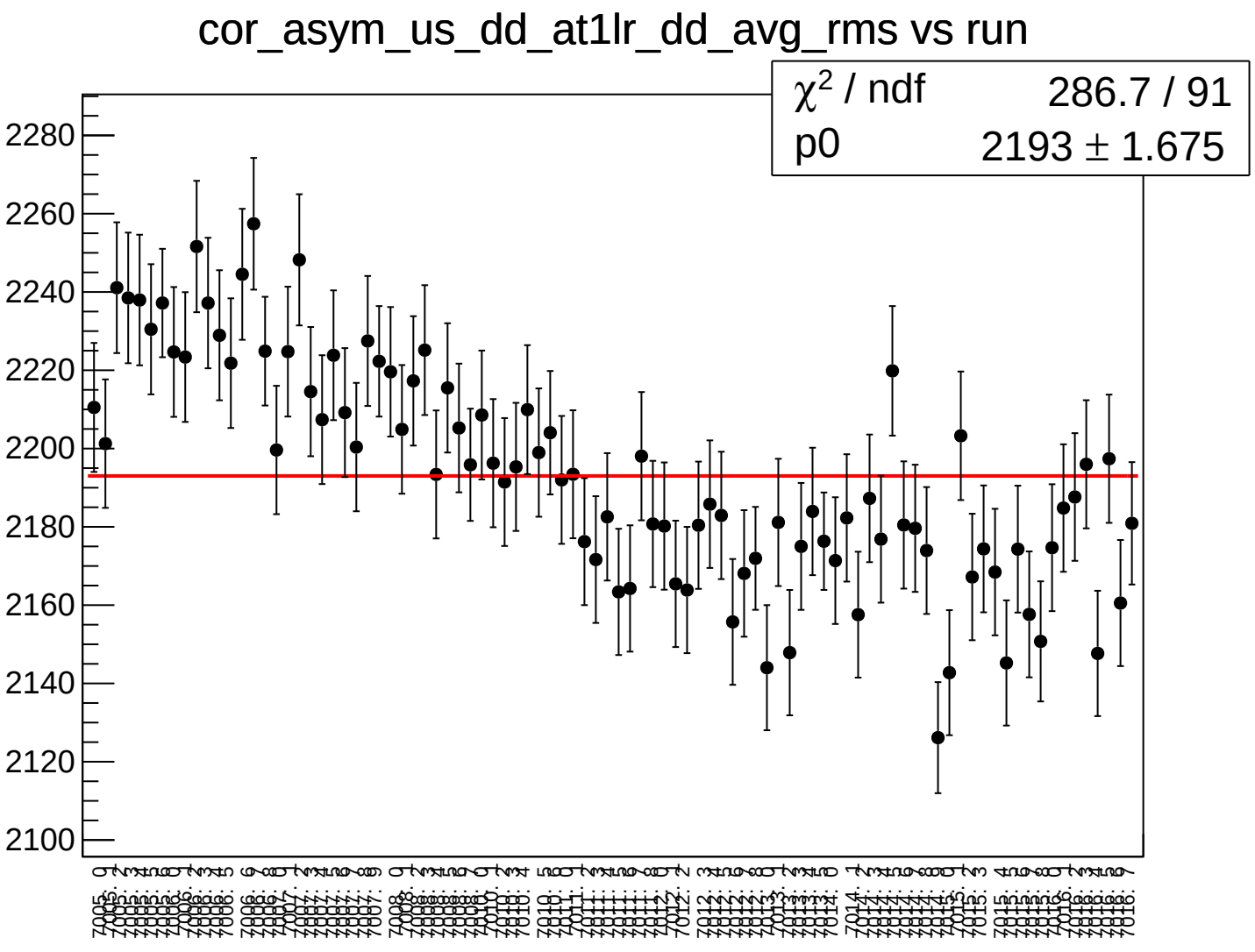

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 286.7 / 91
p0 2193 ± 1.675
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

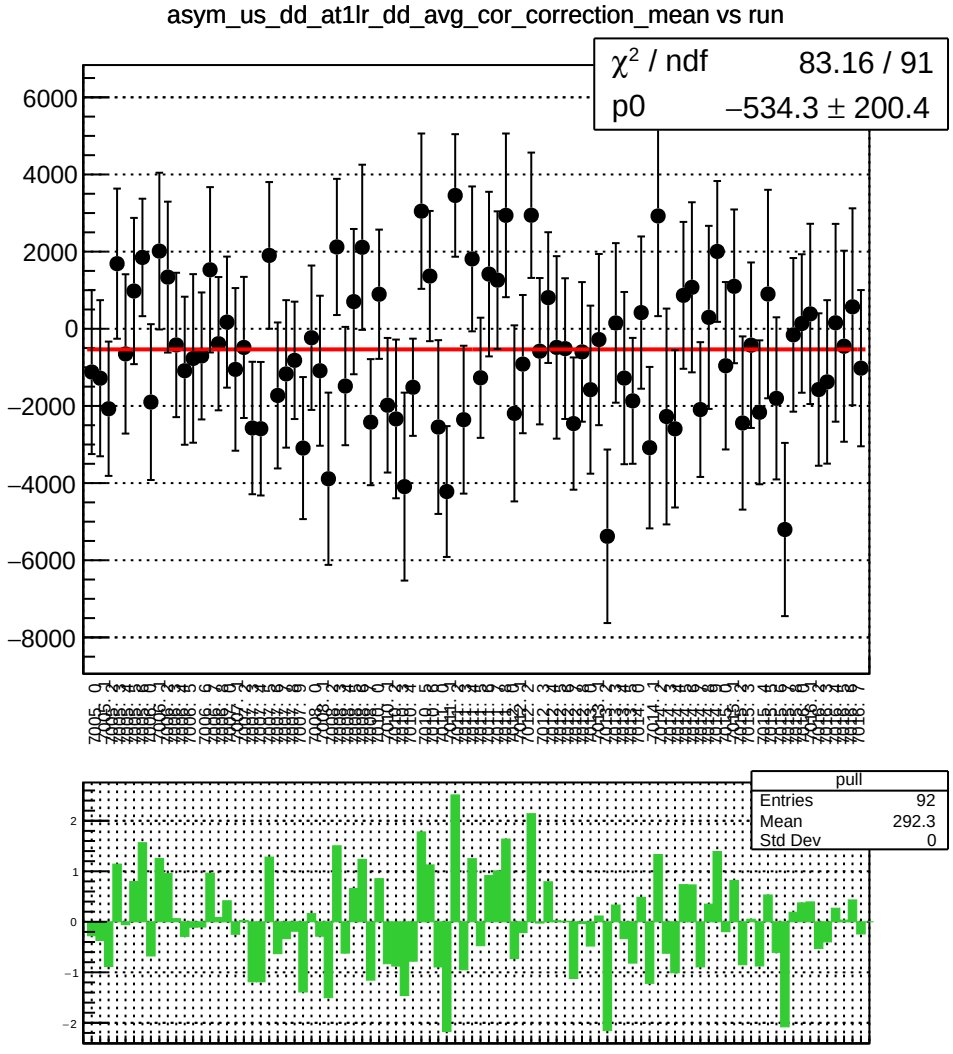

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 83.13 / 91
p0 −535 ± 200.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean 294.7
Std Dev 0
2
1
0
−1
−2

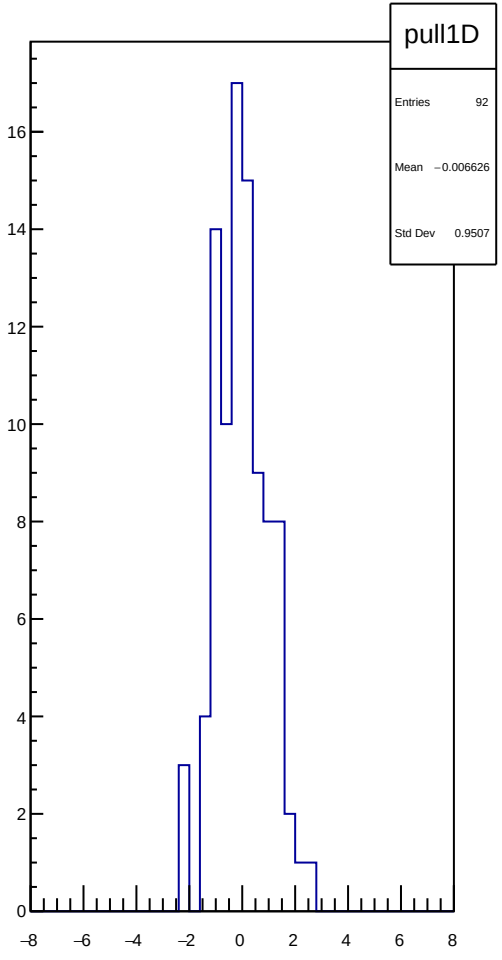

pull1D
Entries 92
Mean −0.006526
Std Dev 0.9506
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

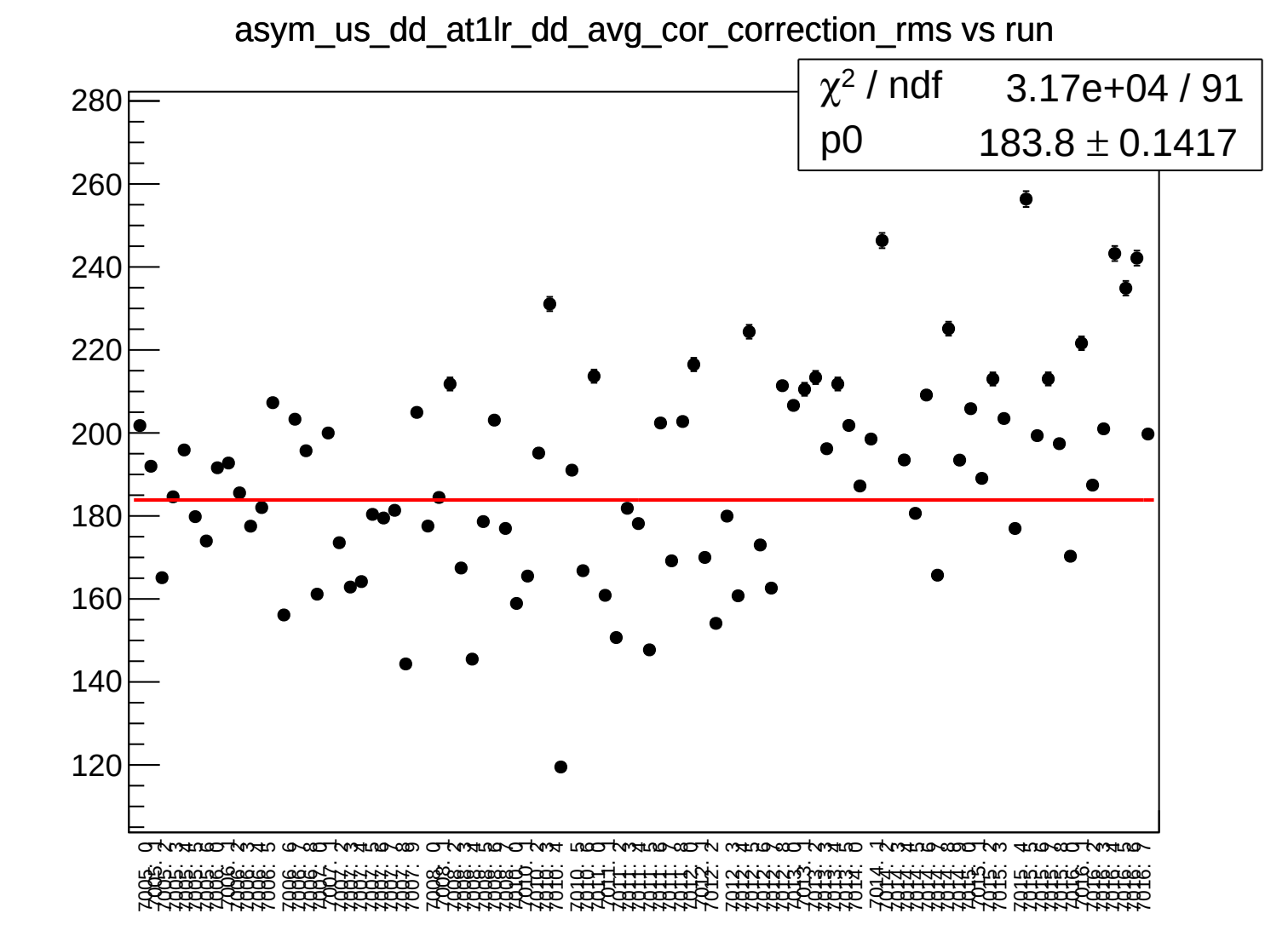

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.171e+04 / 91
p0 183.8 ± 0.1417
280
260
240
220
200
180
160
140
120

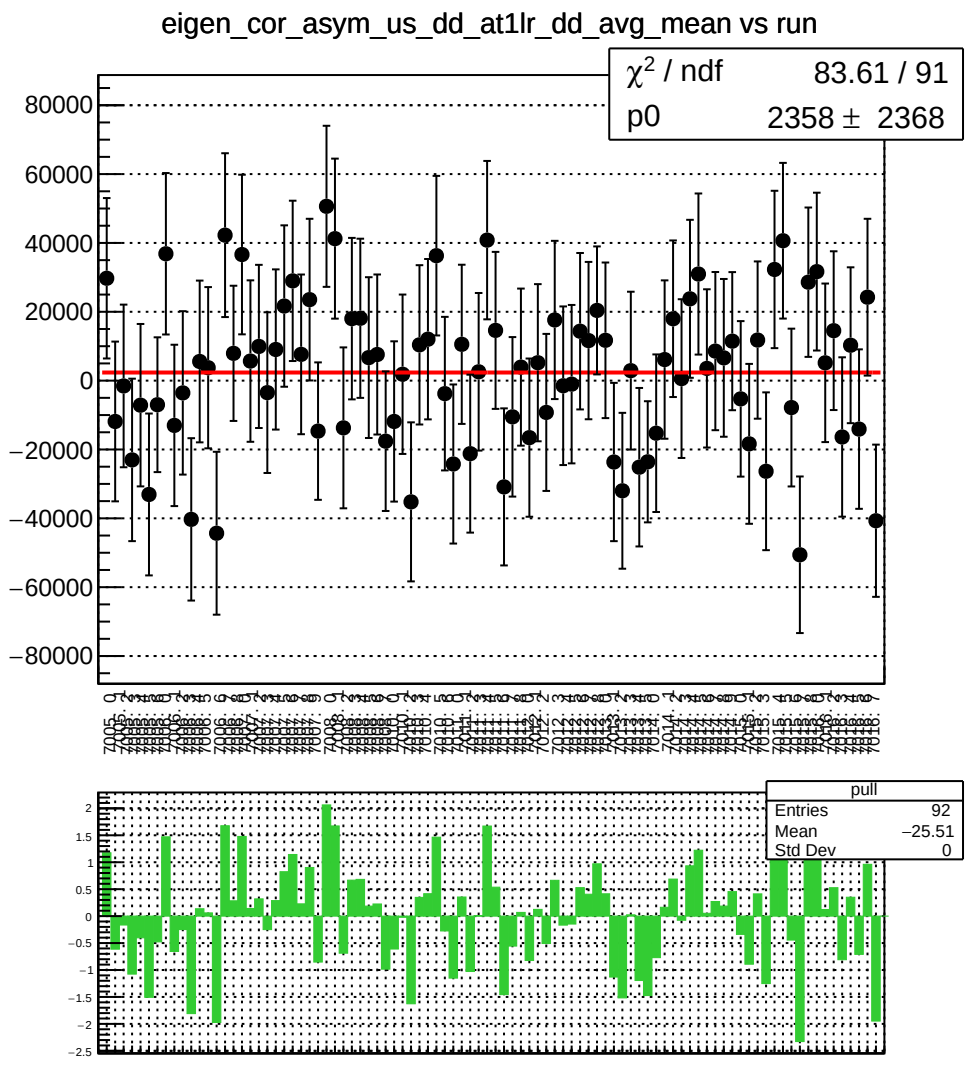

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 83.61 / 91
p0 2358 ± 2368
pull
Entries 92
Mean −25.51
Std Dev 0
pull1D
Entries 92
Mean 0.005434
Std Dev 0.9533

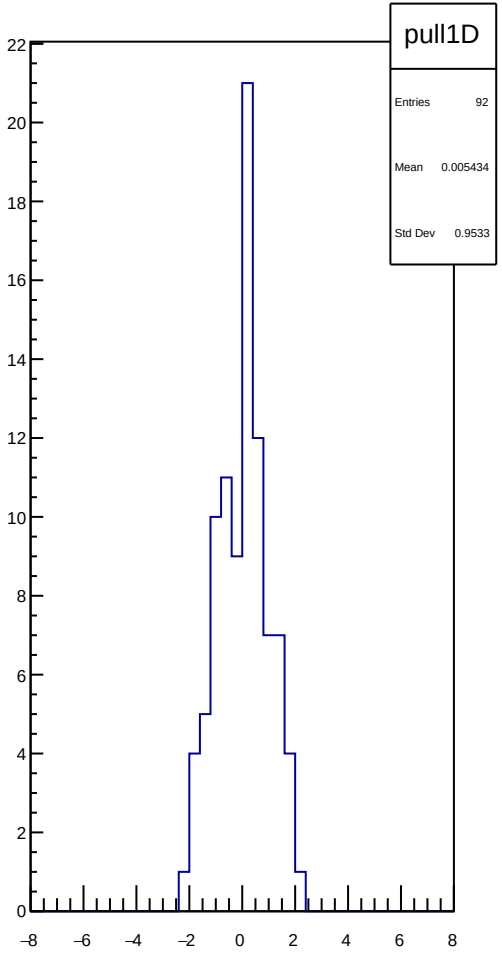

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 286.7 / 91
p0 2193 ± 1.675
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

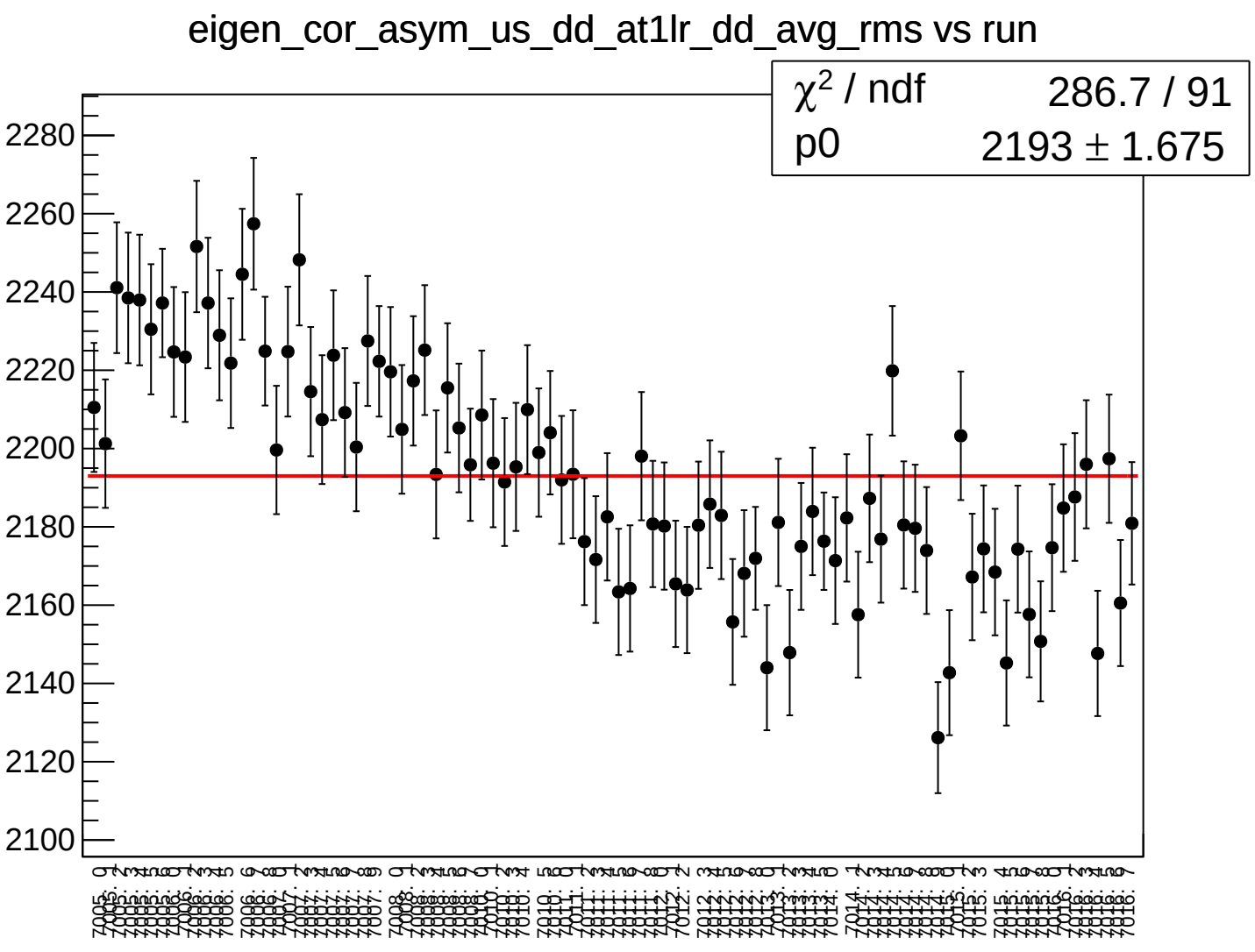

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 83.16 / 91
p0 −534.3 ± 200.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean 292.3
Std Dev 0
2
1
0
−1
−2

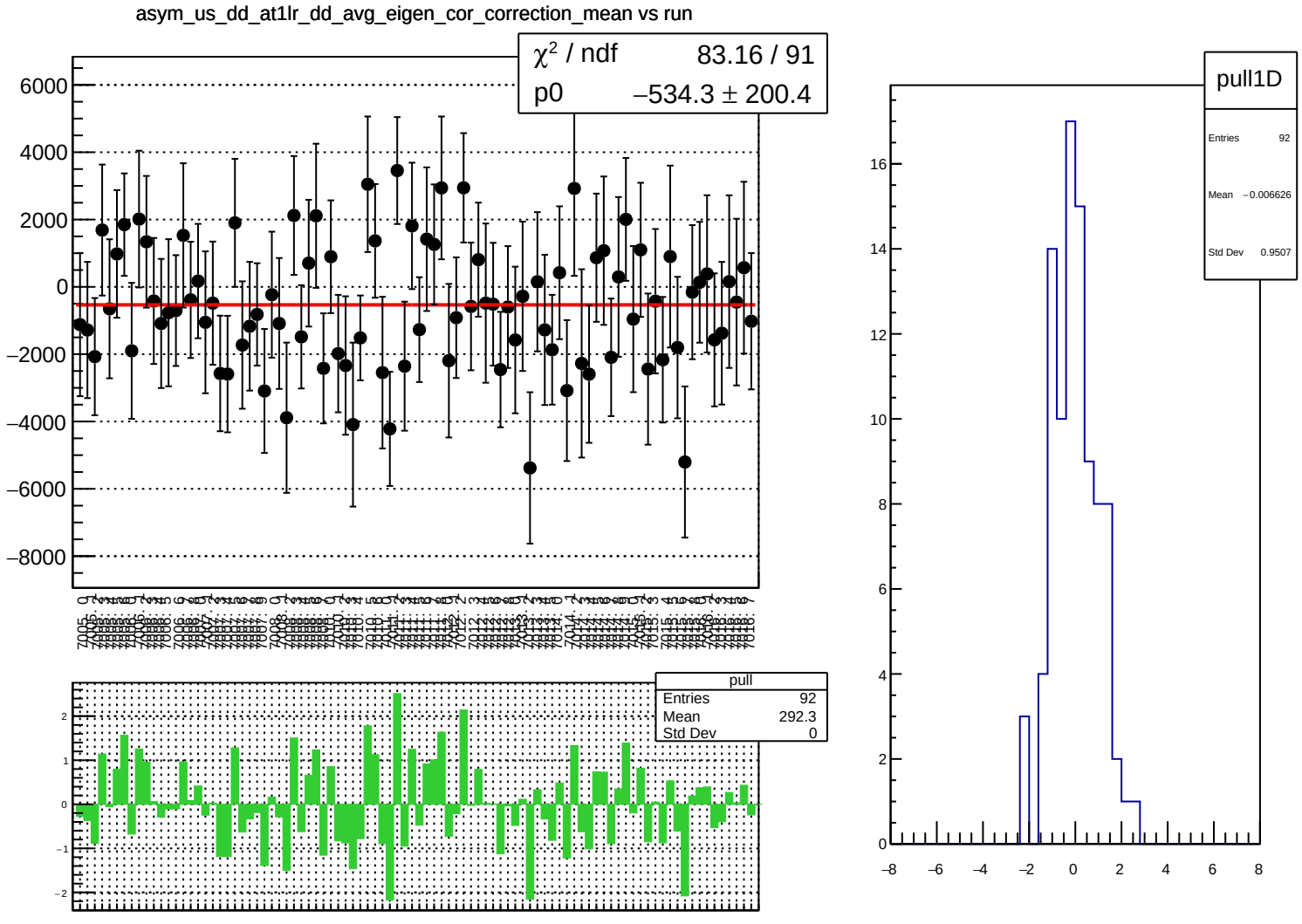

pull1D
Entries 92
Mean −0.006626
Std Dev 0.9507
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

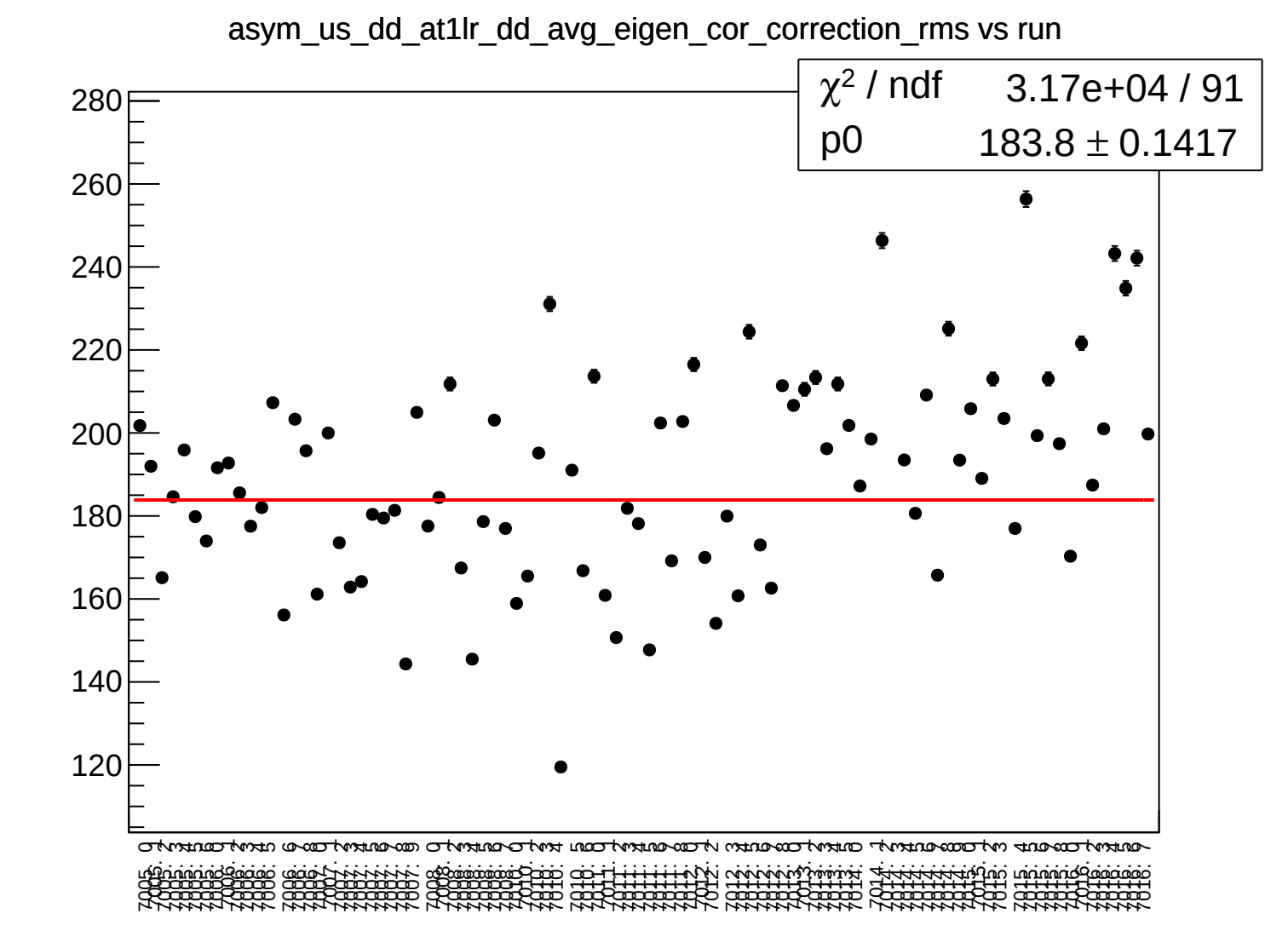

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3.17e+04 / 91
p0 183.8 ± 0.1417
280
260
240
220
200
180
160
140
120

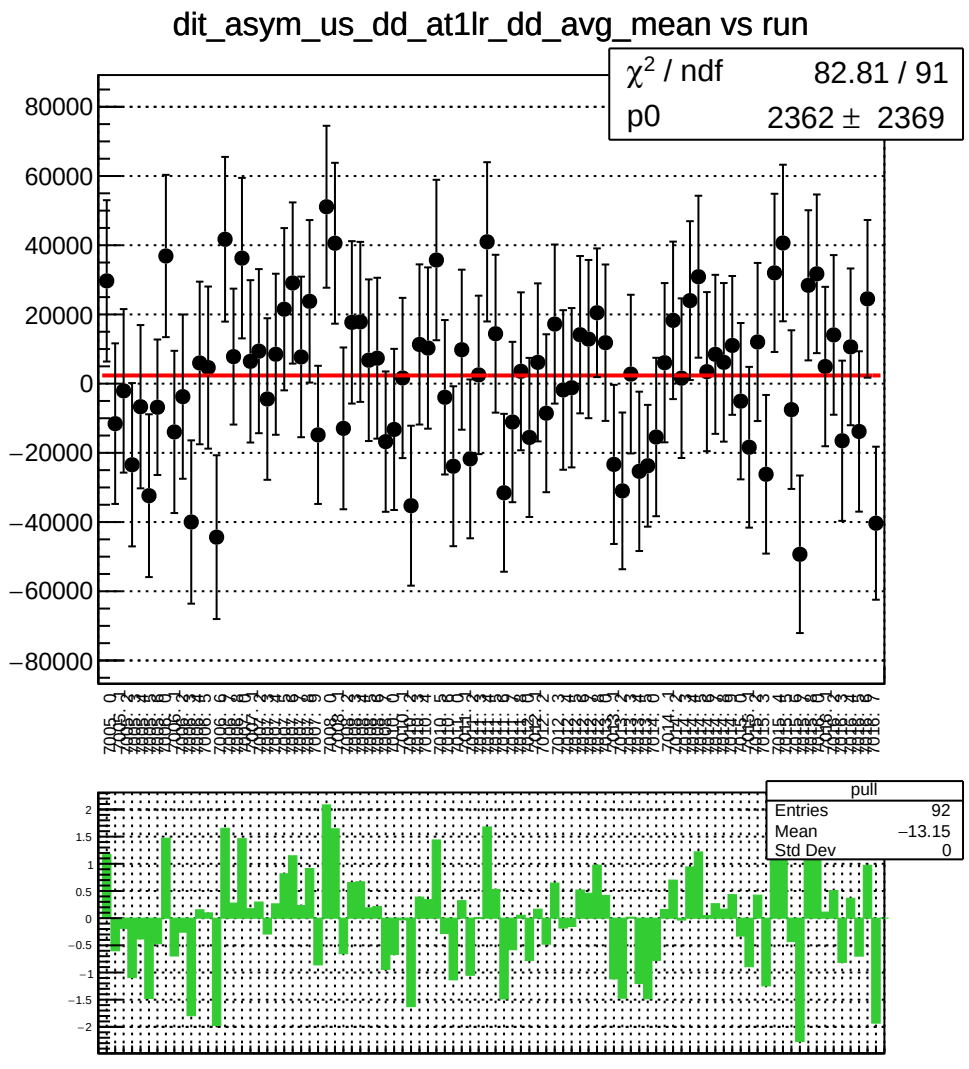

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 83.61 / 91
p0 2358 ± 2368
pull
Entries 92
Mean −25.51
Std Dev 0

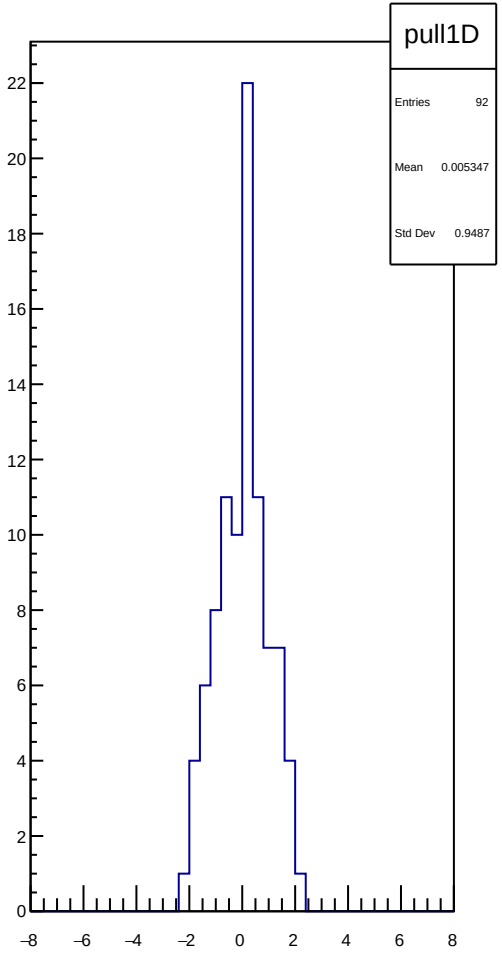

pull1D
Entries 92
Mean 0.005434
Std Dev 0.9533

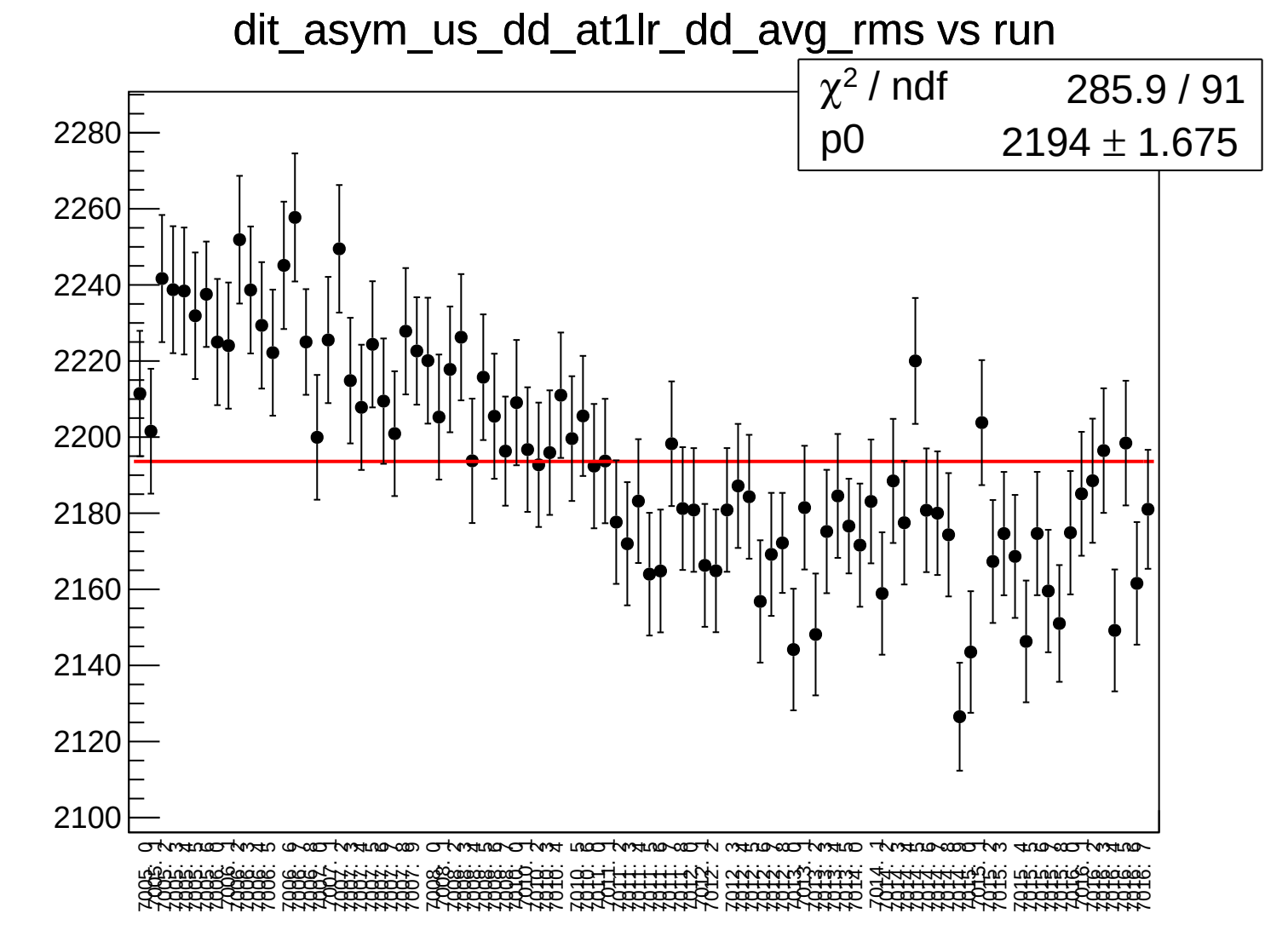

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 286.7 / 91
p0 2193 ± 1.675
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

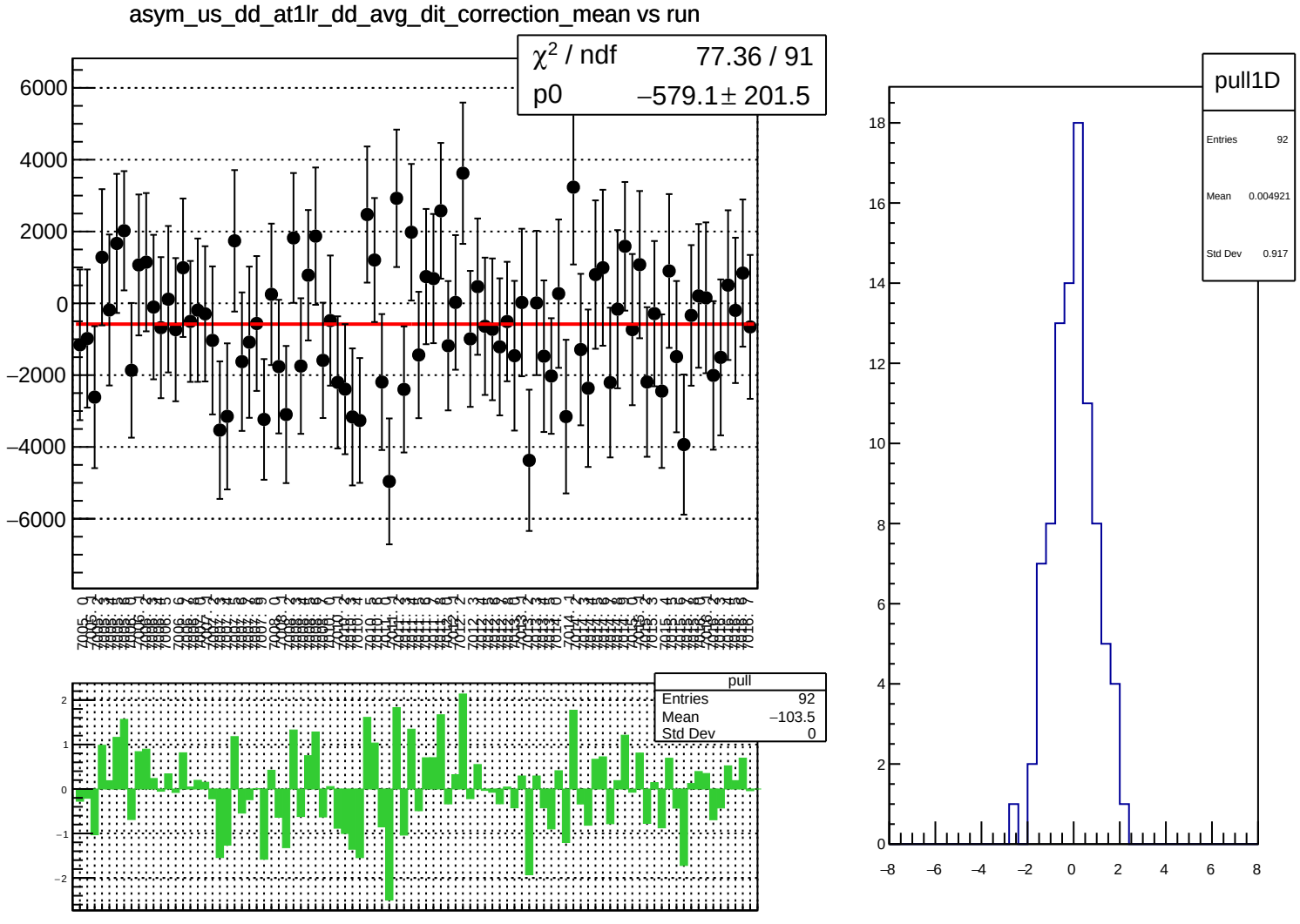

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.16 / 91
p0 −534.3 ± 200.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean 292.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006626
Std Dev 0.9507
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

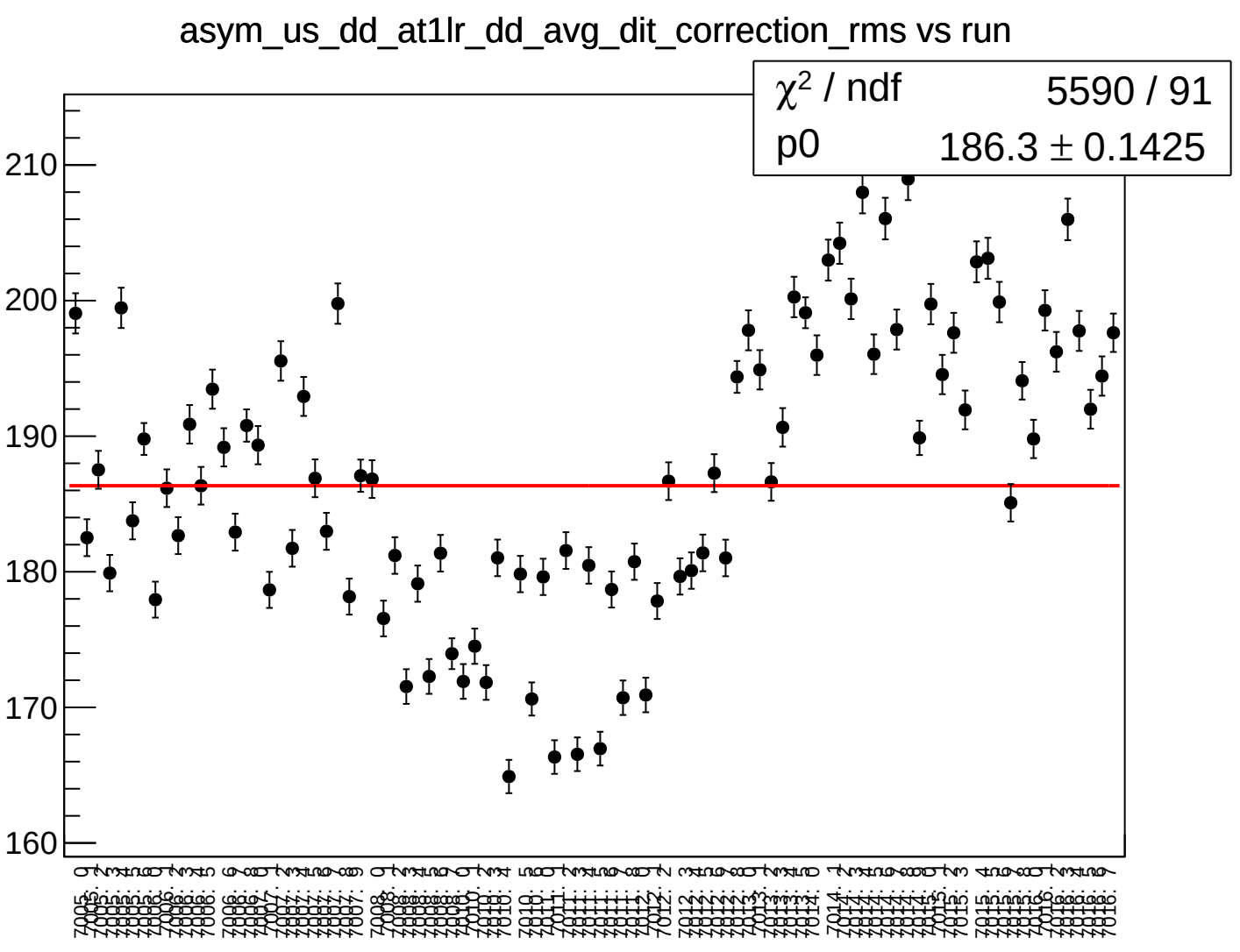

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.17e+04 / 91
p0 183.8 ± 0.1417
280
260
240
220
200
180
160
140
120

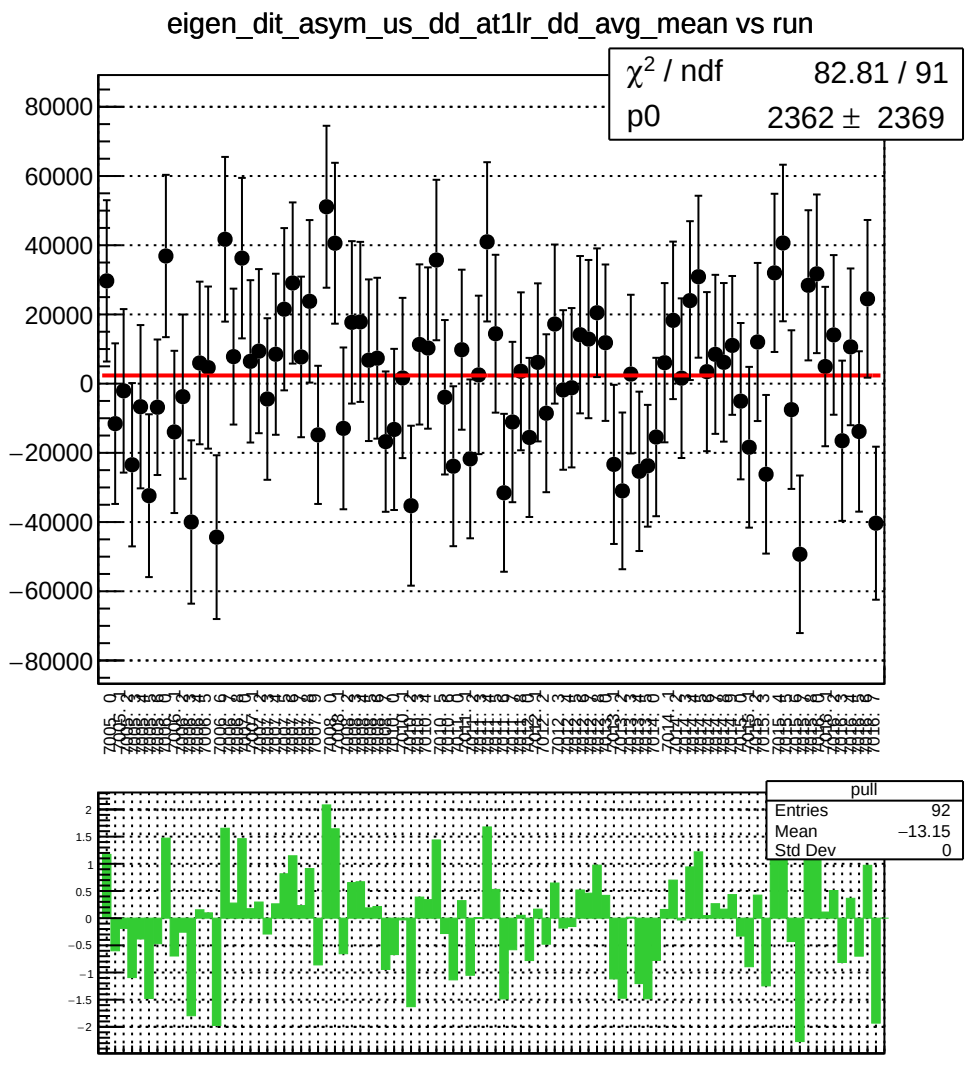

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 82.81 / 91
p0 2362 ± 2369
pull
Entries 92
Mean −13.15
Std Dev 0

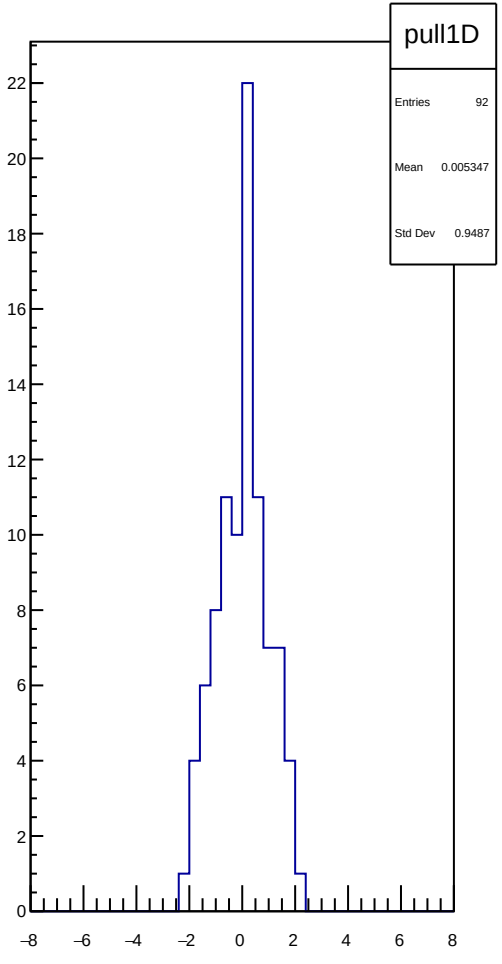

pull1D
Entries 92
Mean 0.005347
Std Dev 0.9487

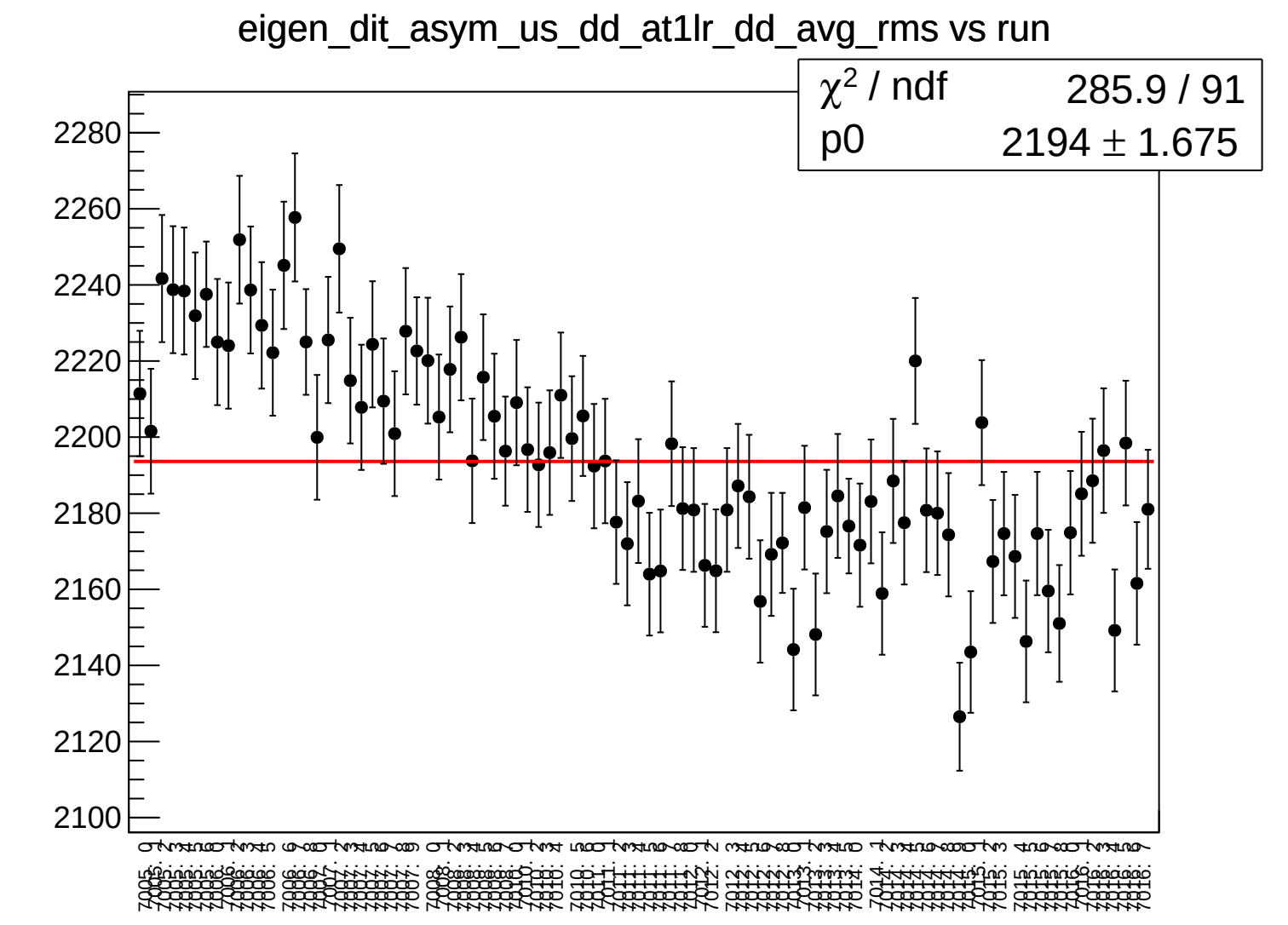

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 285.9 / 91
p0 2194 ± 1.675
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

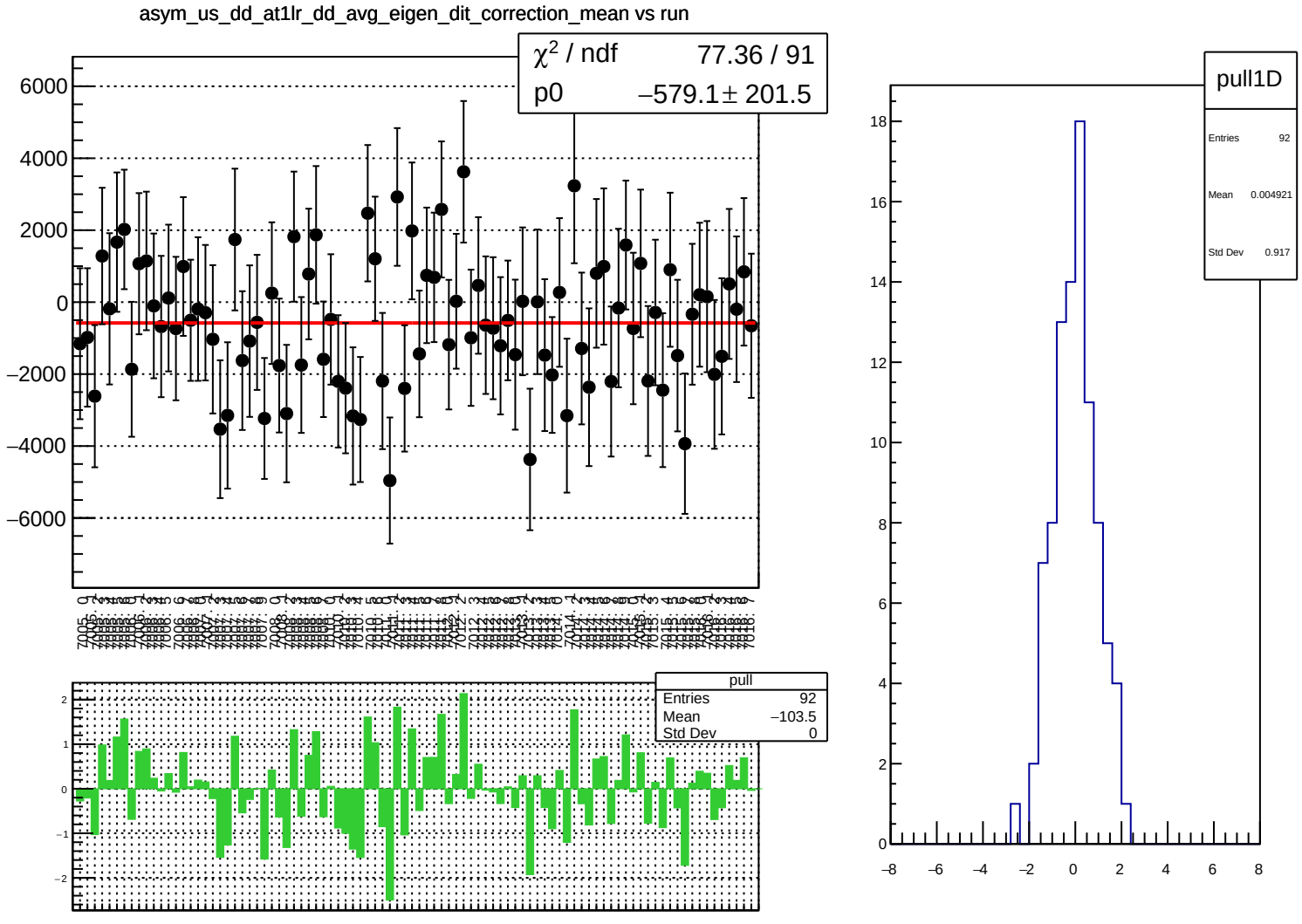

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 77.36 / 91
p0 −579.1± 201.5
pull
Entries 92
Mean −103.5
Std Dev 0
pull1D
Entries 92
Mean 0.004921
Std Dev 0.917

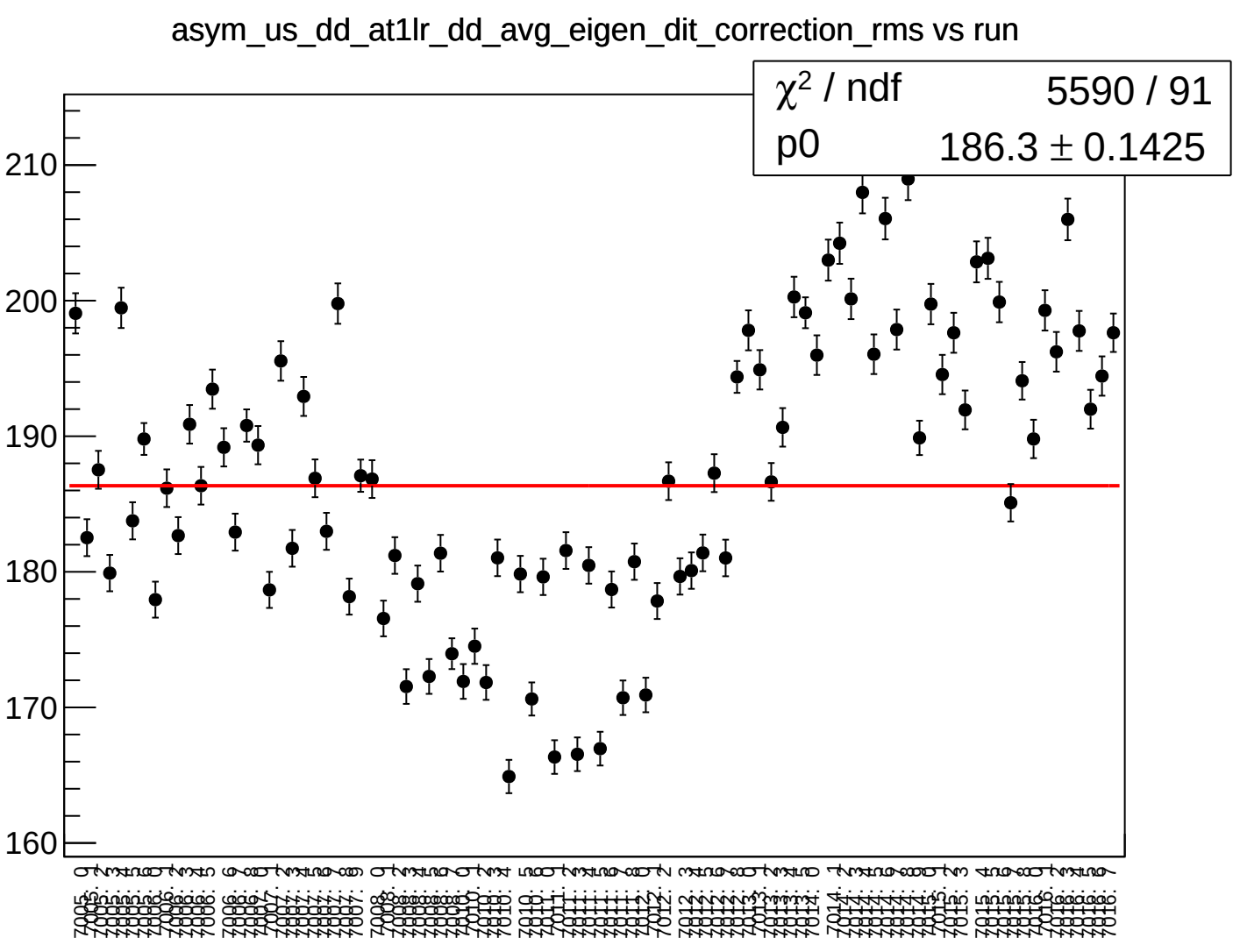

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5590 / 91
p0 186.3 ± 0.1425
210
200
190
180
170
160

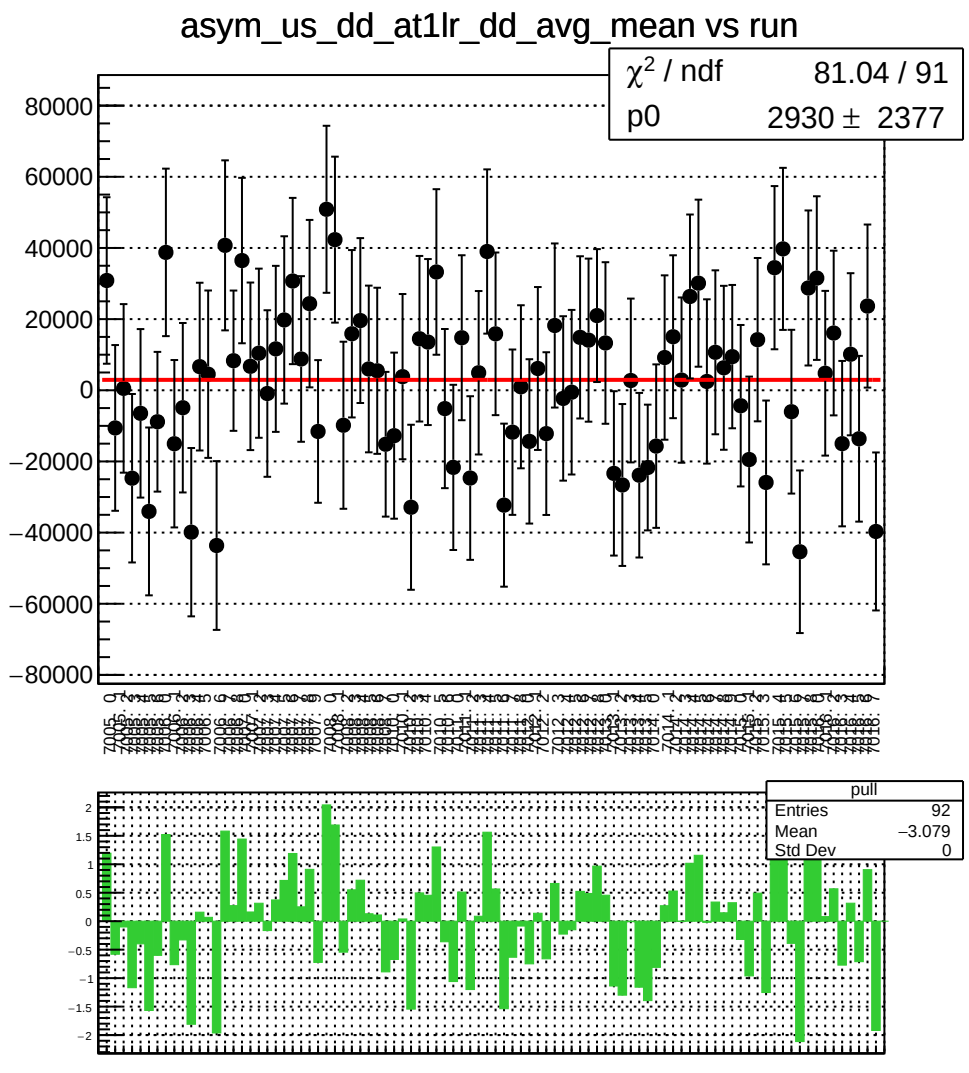

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 82.81 / 91
p0 2362 ± 2369
pull
Entries 92
Mean −13.15
Std Dev 0

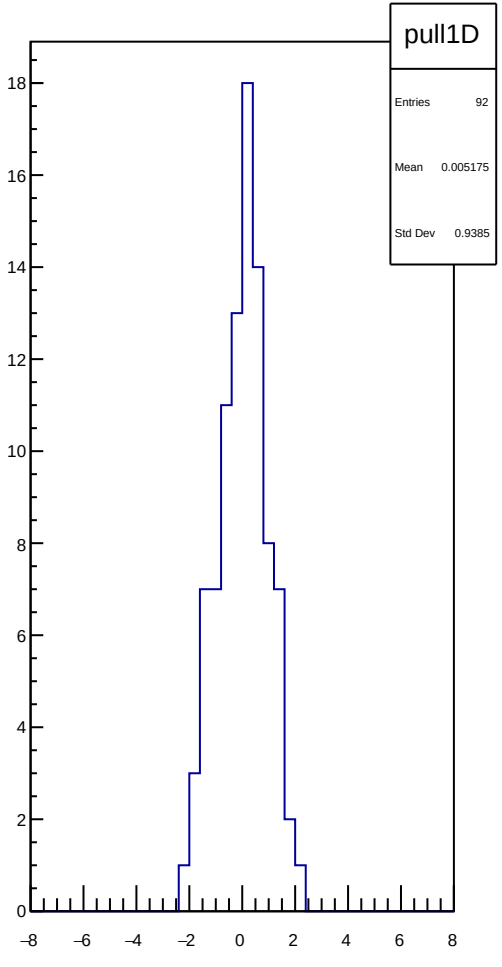

pull1D
Entries 92
Mean 0.005347
Std Dev 0.9487

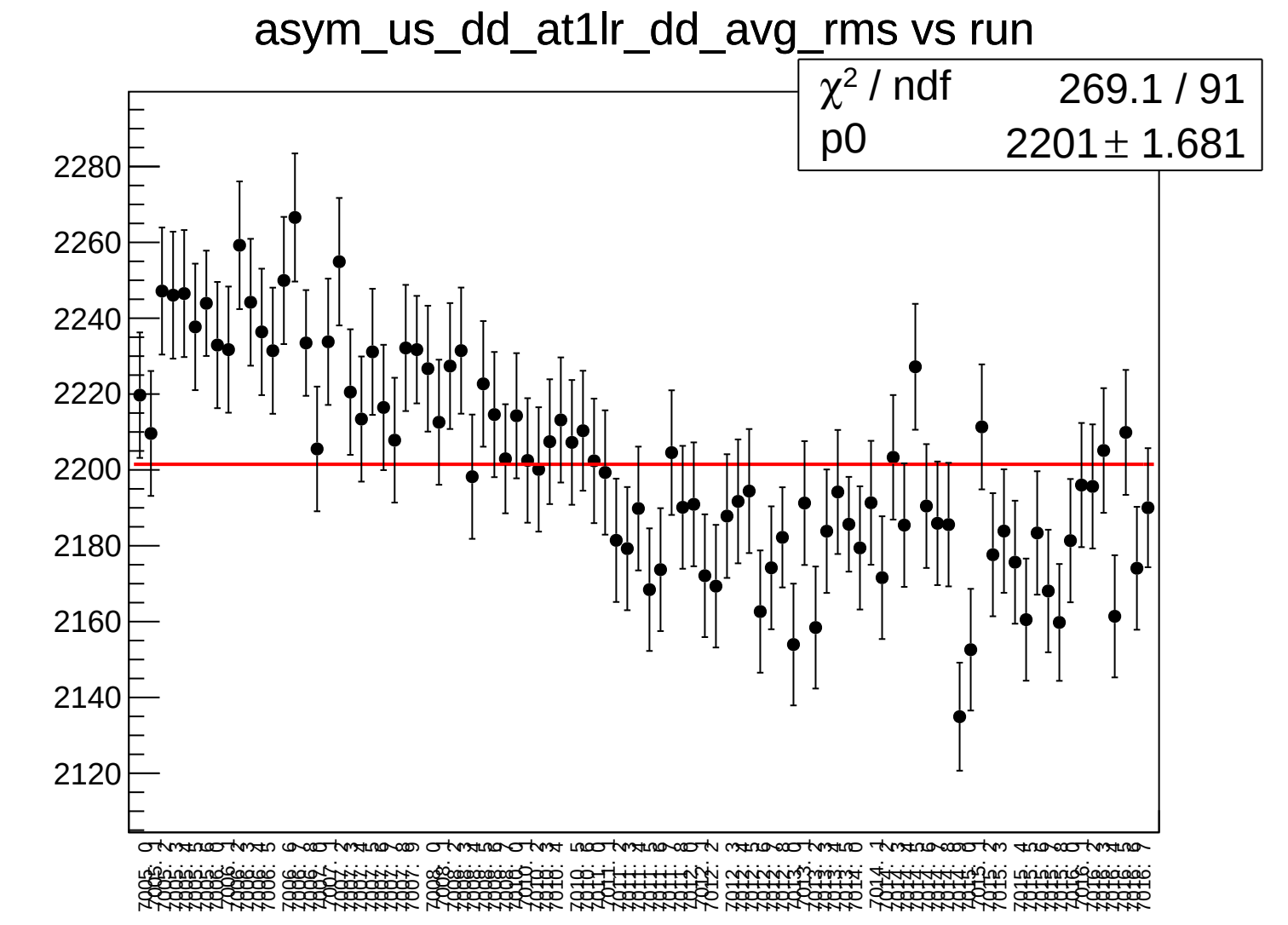

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
$\chi^2$ / ndf 285.9 / 91
p0 2194 ± 1.675
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100

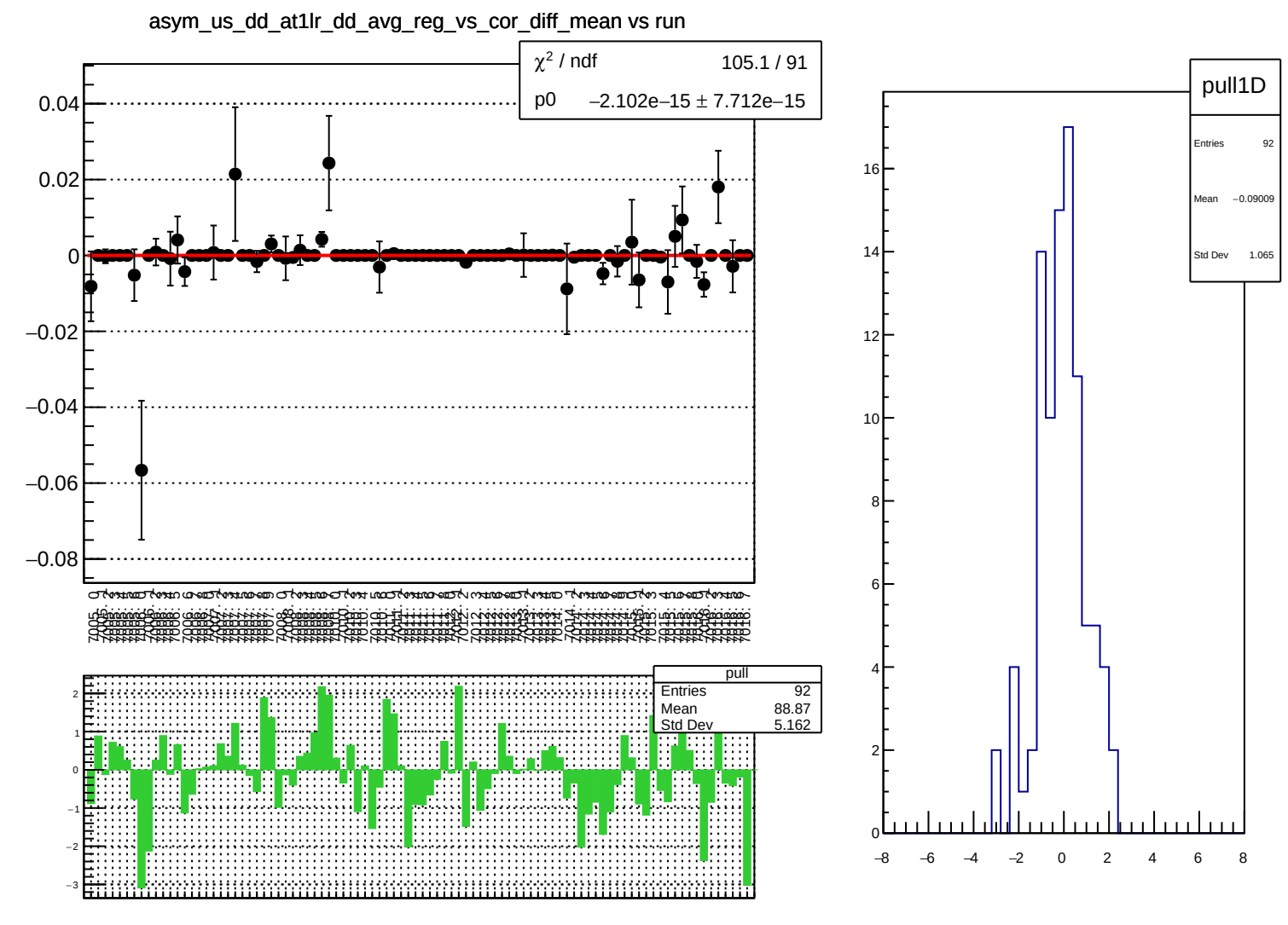

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.36 / 91
p0 −579.1± 201.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −103.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.004921
Std Dev 0.917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

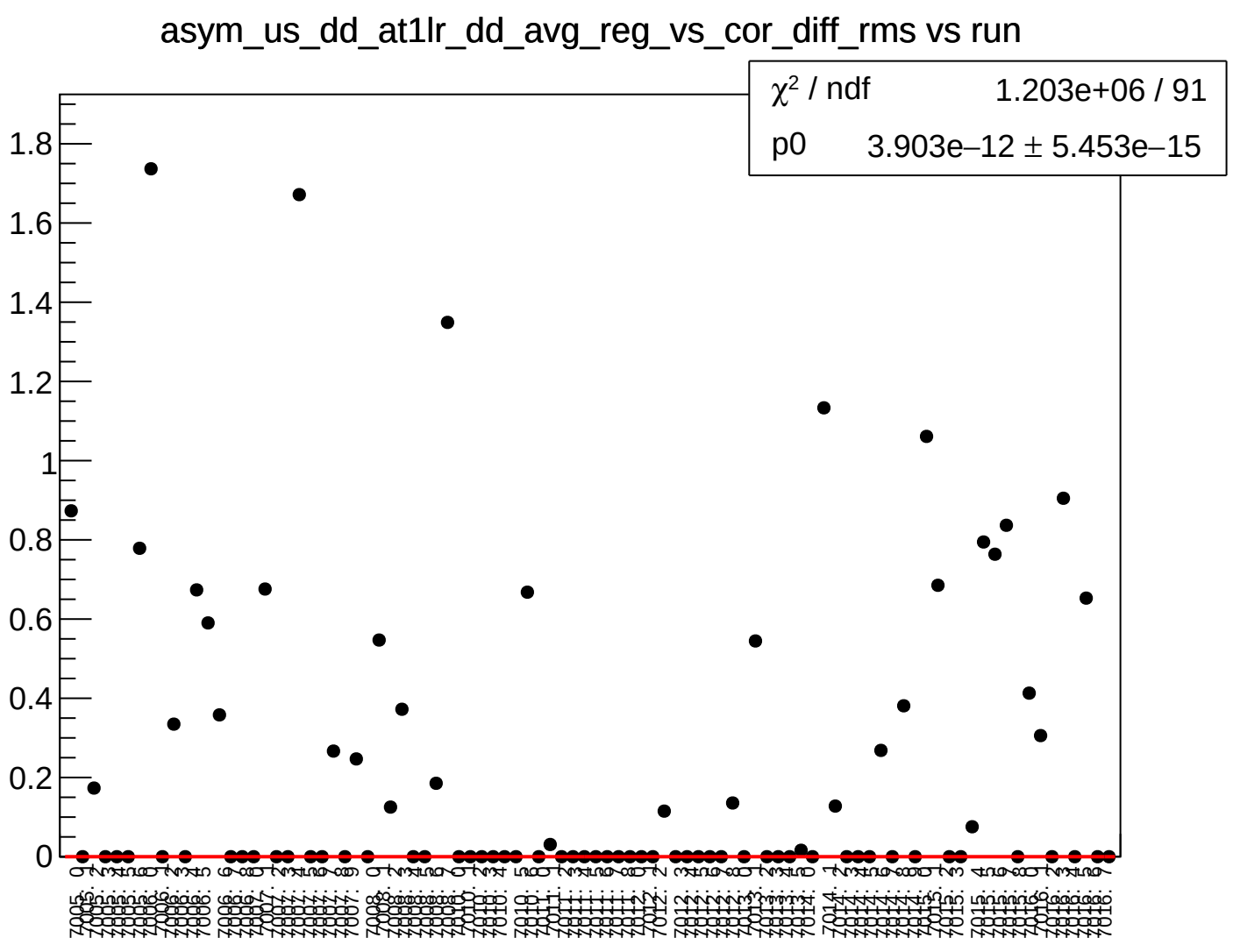

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5590 / 91
p0 186.3 ± 0.1425
210
200
190
180
170
160

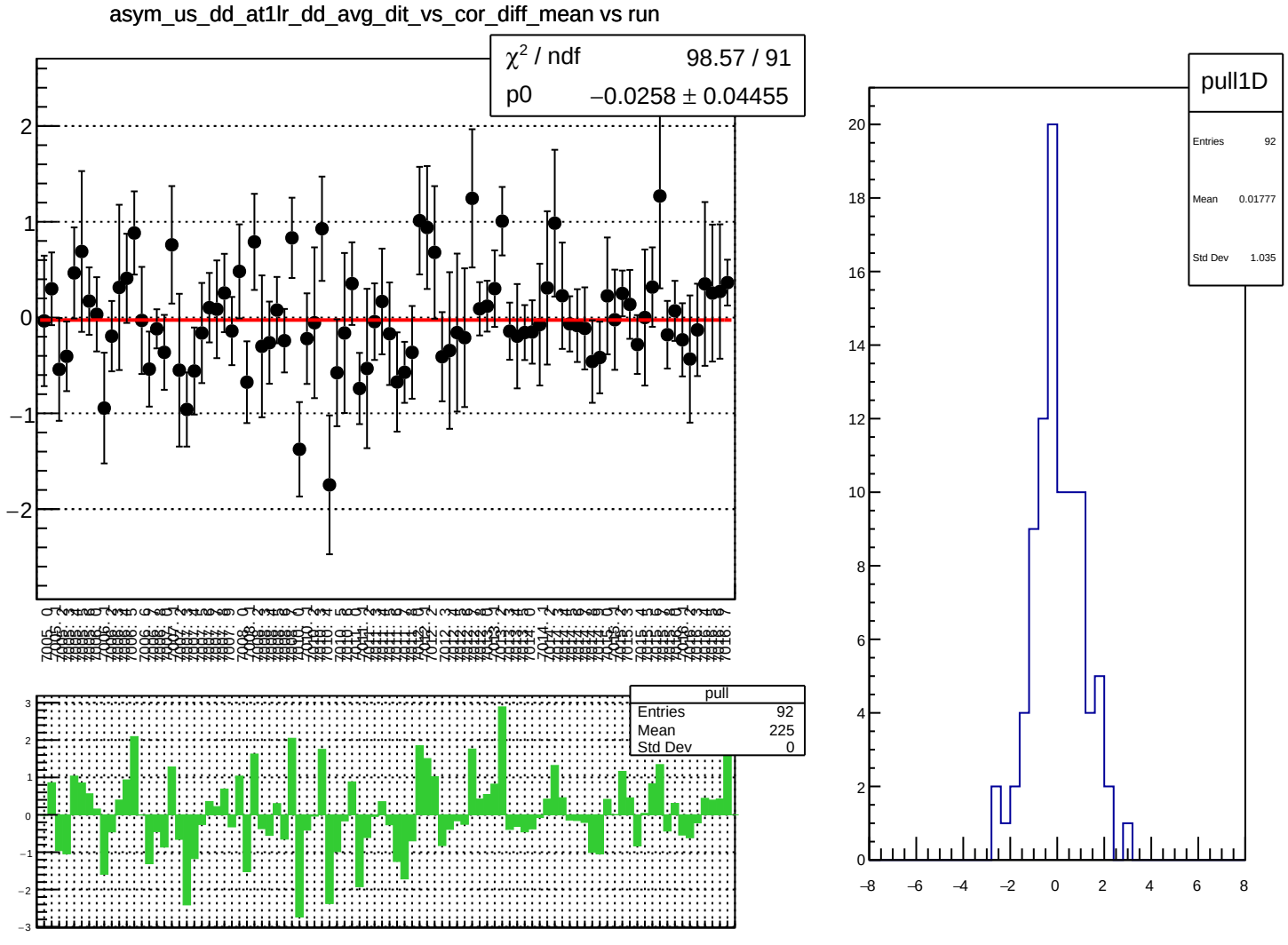

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 81.04 / 91
p0 2930 ± 2377
pull
Entries 92
Mean −3.079
Std Dev 0

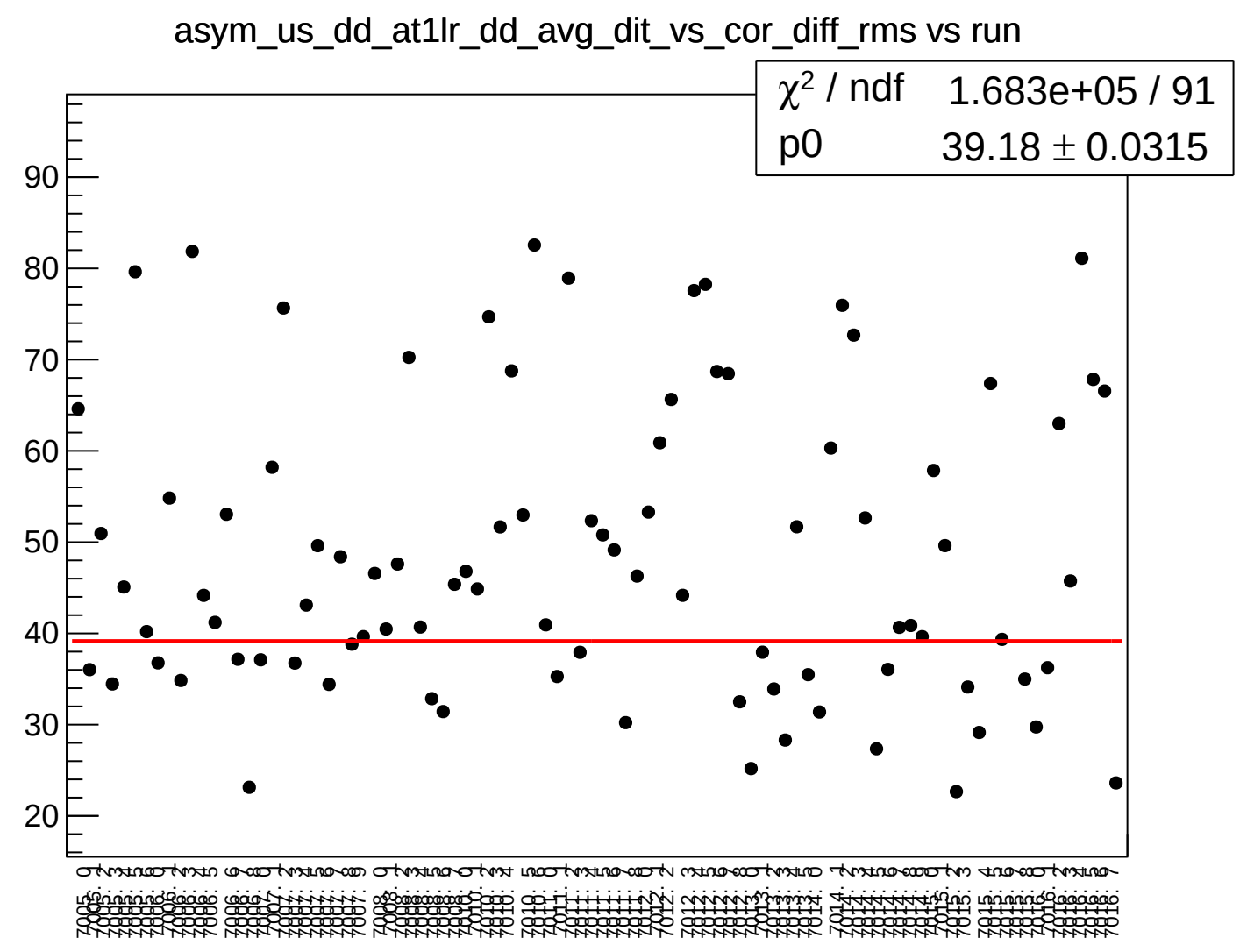

pull1D
Entries 92
Mean 0.005175
Std Dev 0.9385

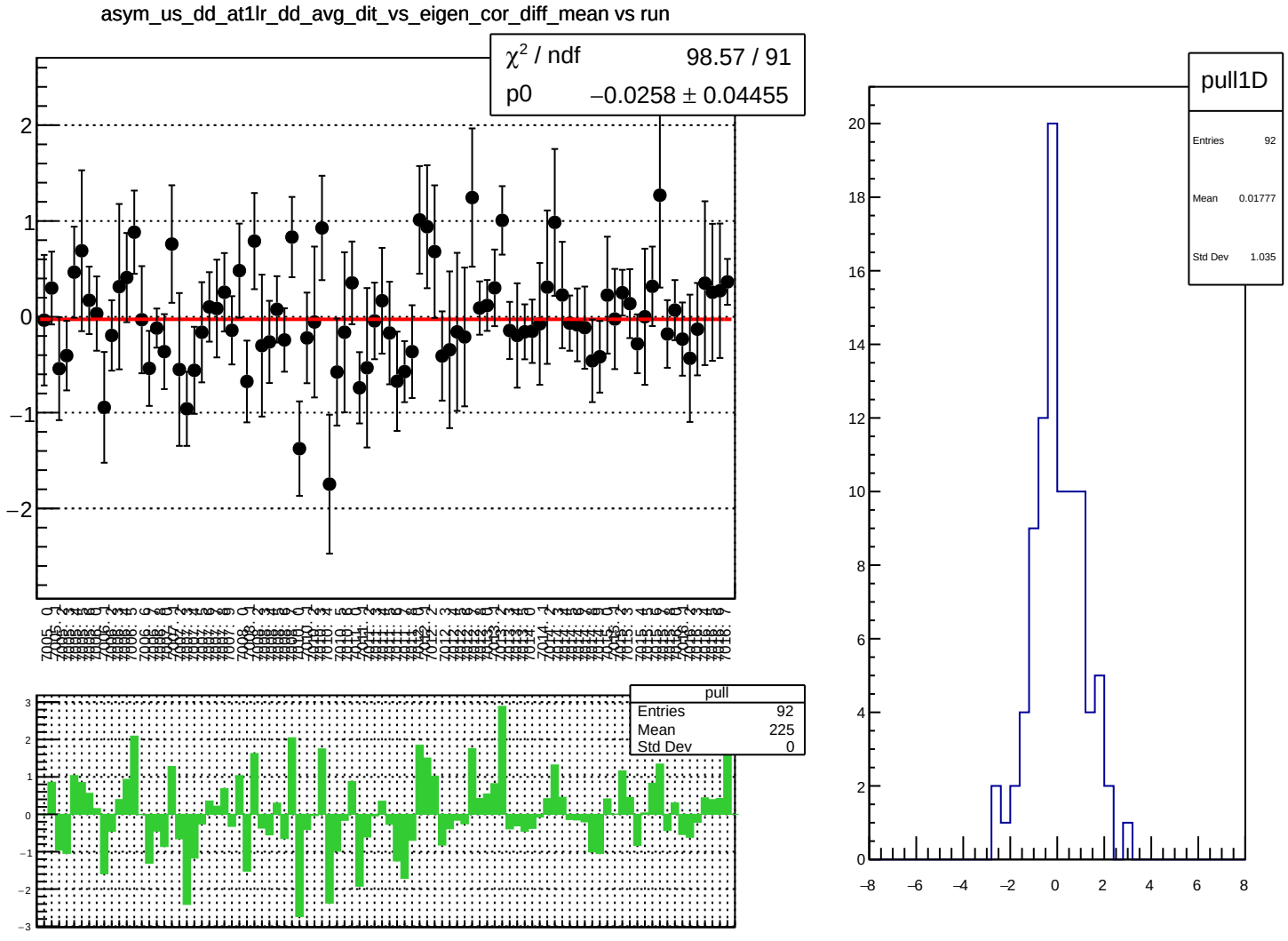

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 269.1 / 91
p0 2201 ± 1.681
2280
2260
2240
2220
2200
2180
2160
2140
2120

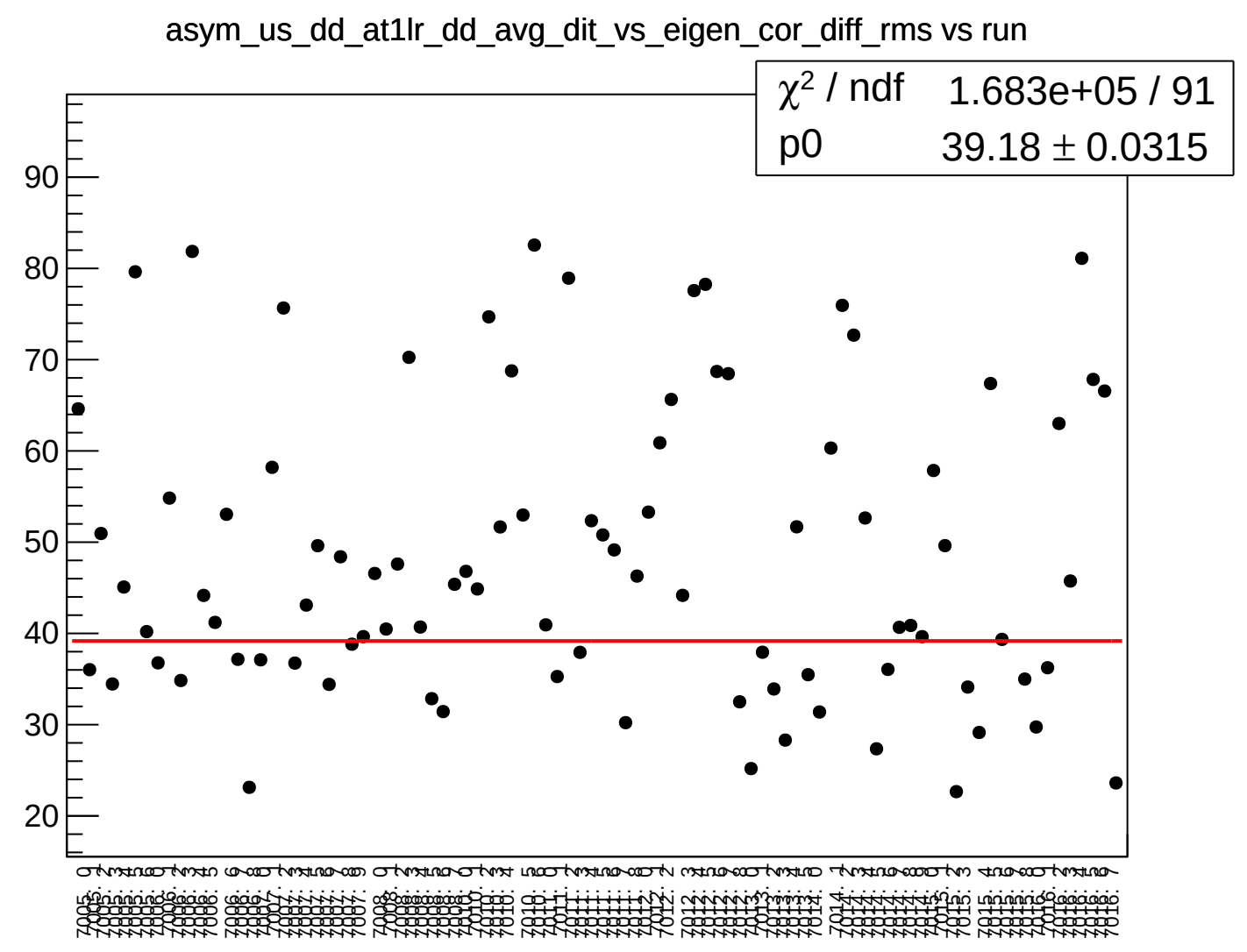

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 91
p0 −2.102e−15 ± 7.712e−15
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean 88.87
Std Dev 5.162
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.09009
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

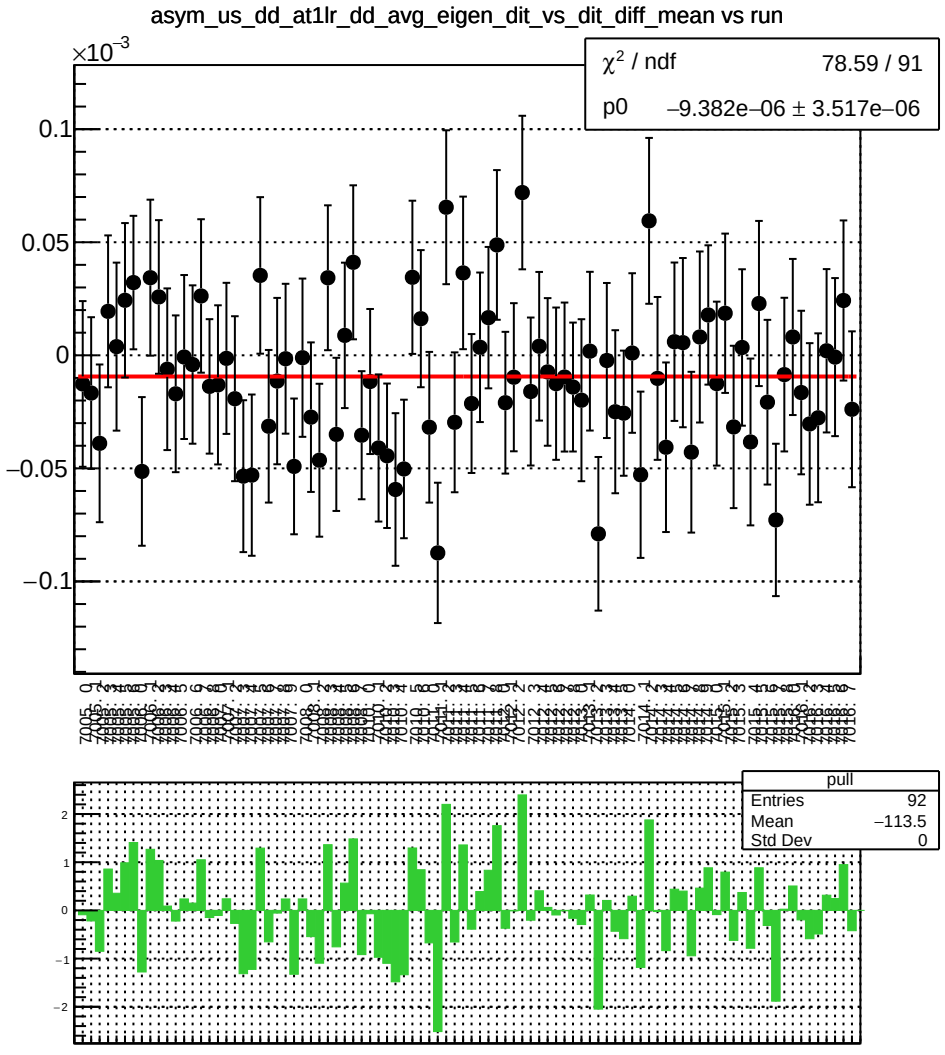

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.203e+06 / 91
p0 3.903e−12 ± 5.453e−15
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

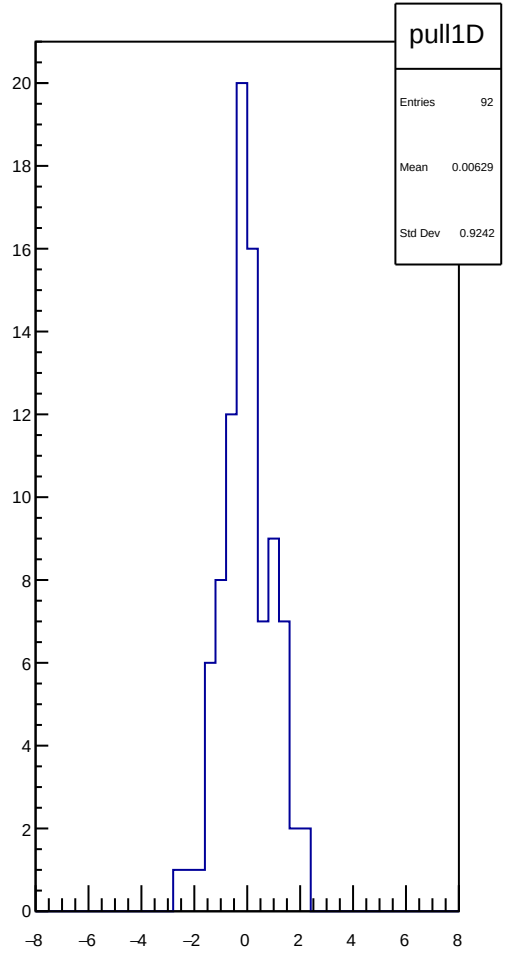

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.57 / 91
p0 −0.0258 ± 0.04455
pull
Entries 92
Mean 225
Std Dev 0
pull1D
Entries 92
Mean 0.01777
Std Dev 1.035

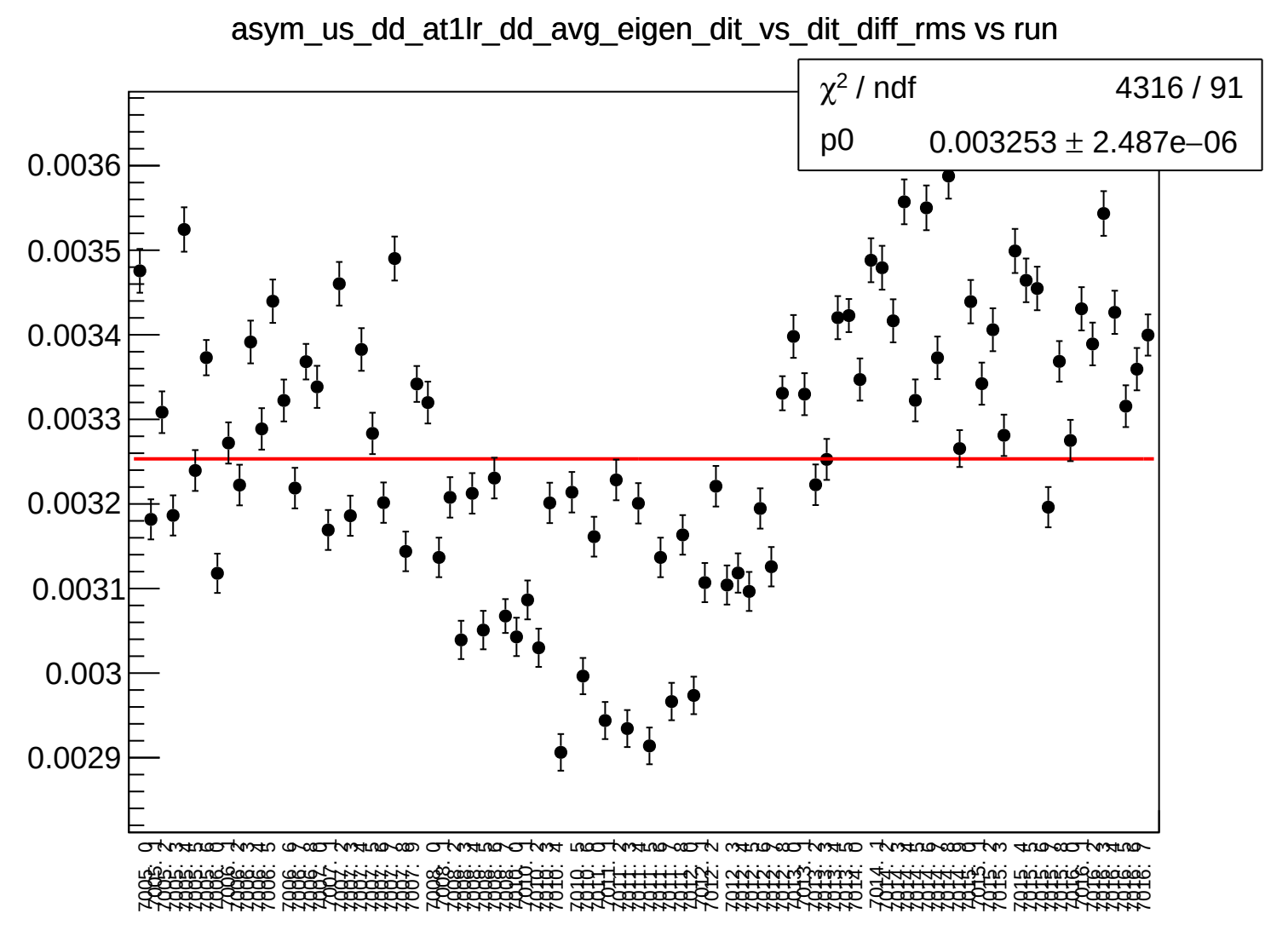

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 91
p0 39.18 ± 0.0315
90
80
70
60
50
40
30
20

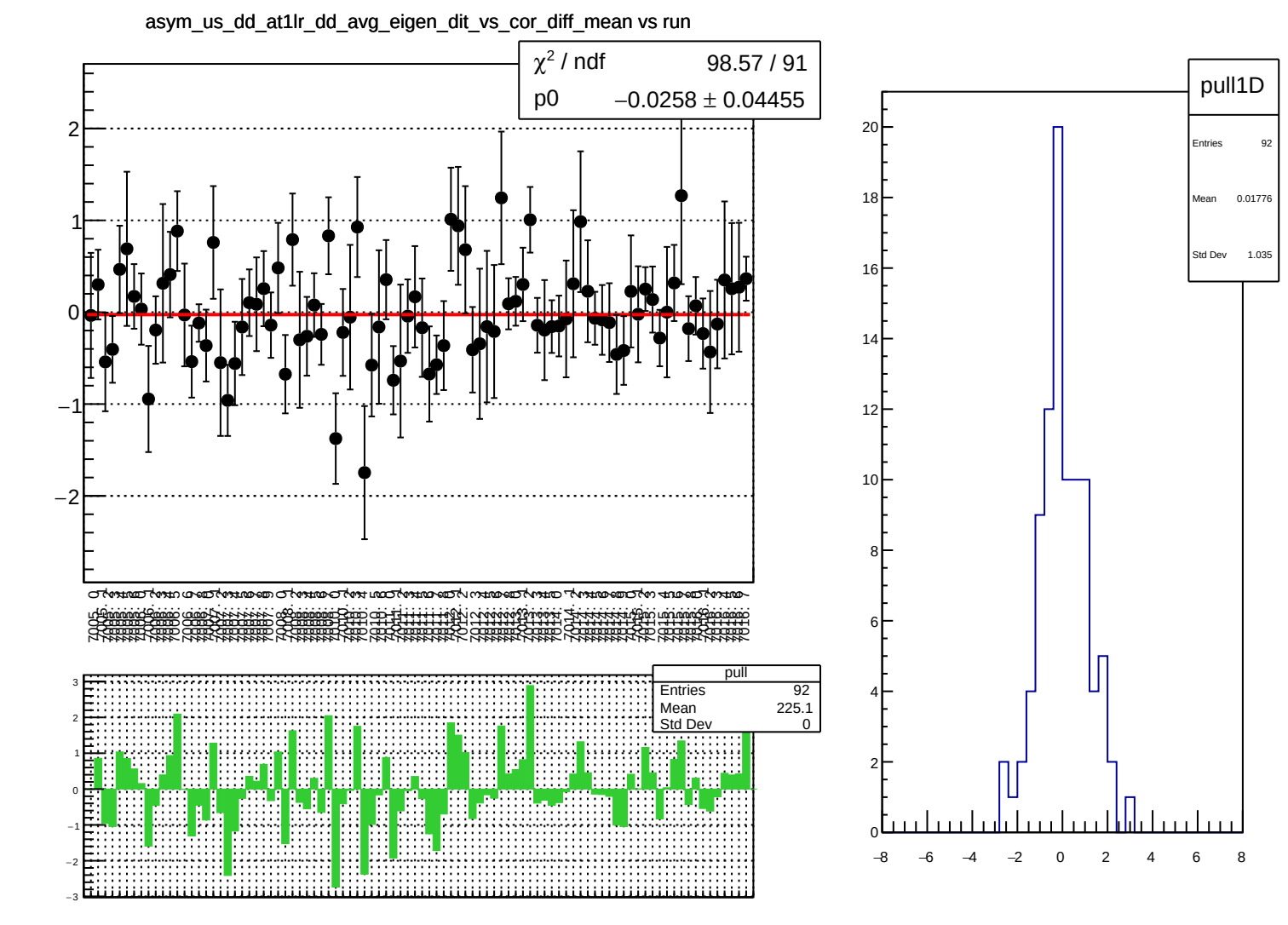

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.57 / 91
p0 −0.0258 ± 0.04455
pull
Entries 92
Mean 225
Std Dev 0
pull1D
Entries 92
Mean 0.01777
Std Dev 1.035

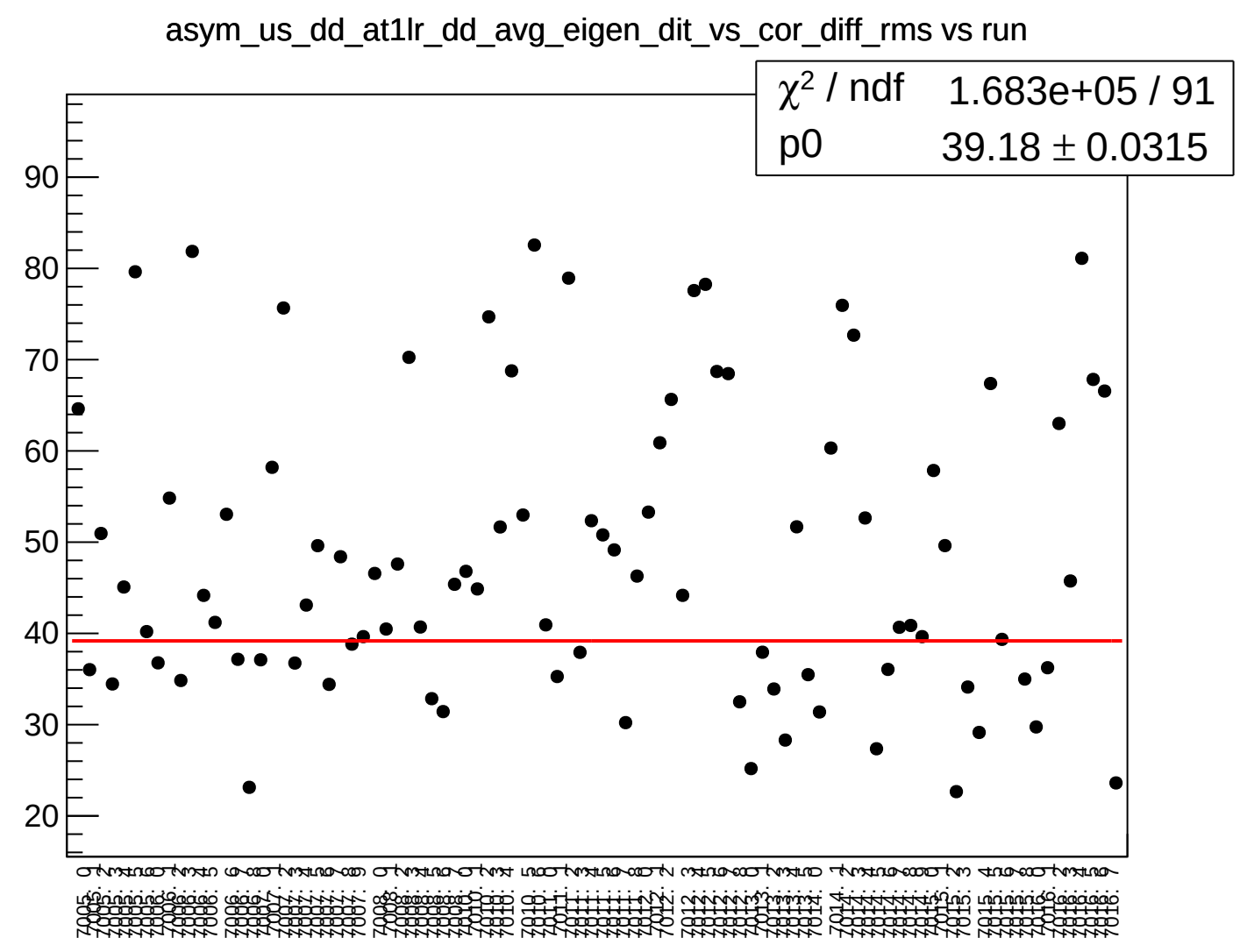

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 91
p0 39.18 ± 0.0315
90
80
70
60
50
40
30
20

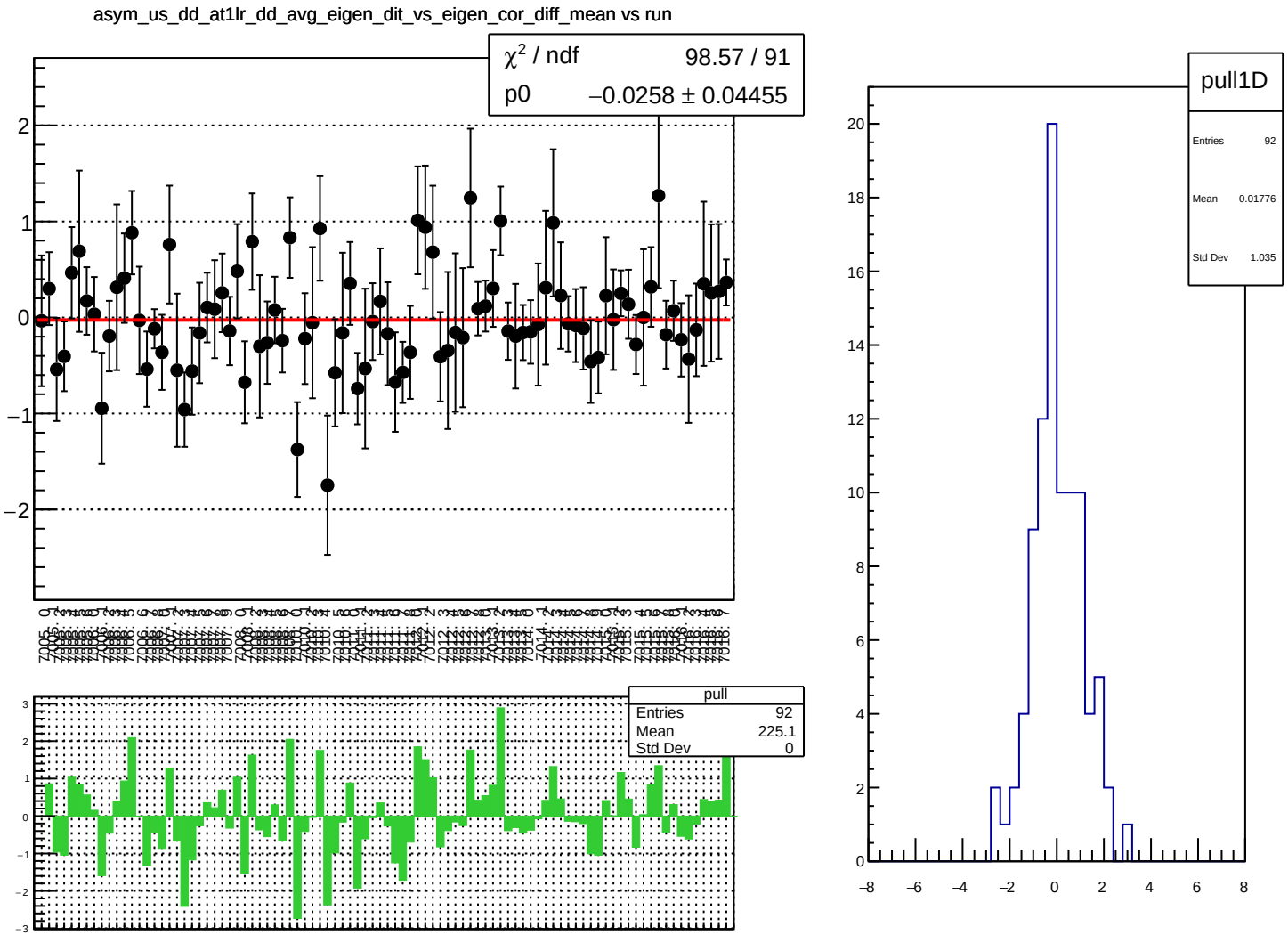

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.59 / 91
p0 −9.382e−06 ± 3.517e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −113.5
Std Dev 0
2
1
0
−1
−2

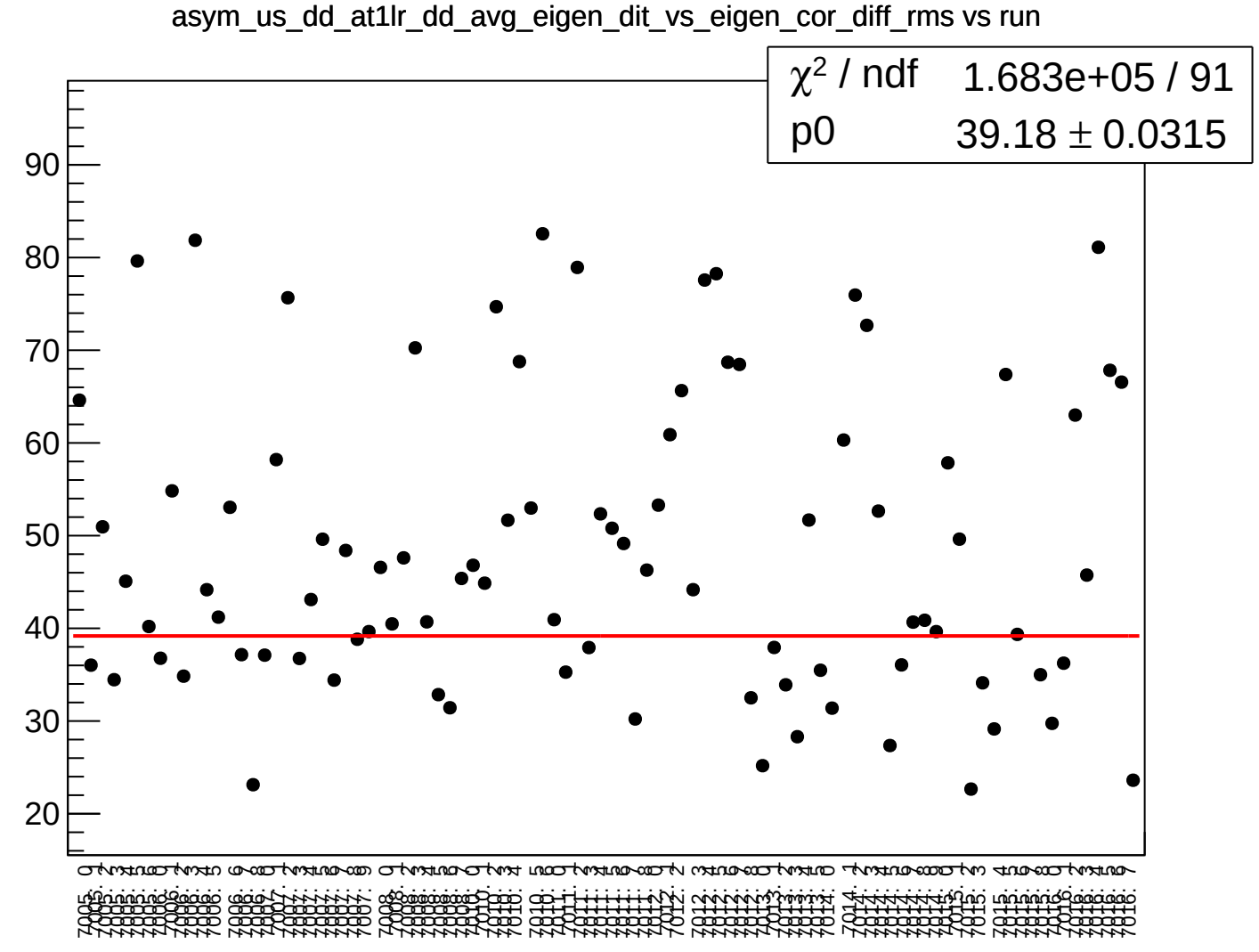

pull1D
Entries 92
Mean 0.00629
Std Dev 0.9242
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

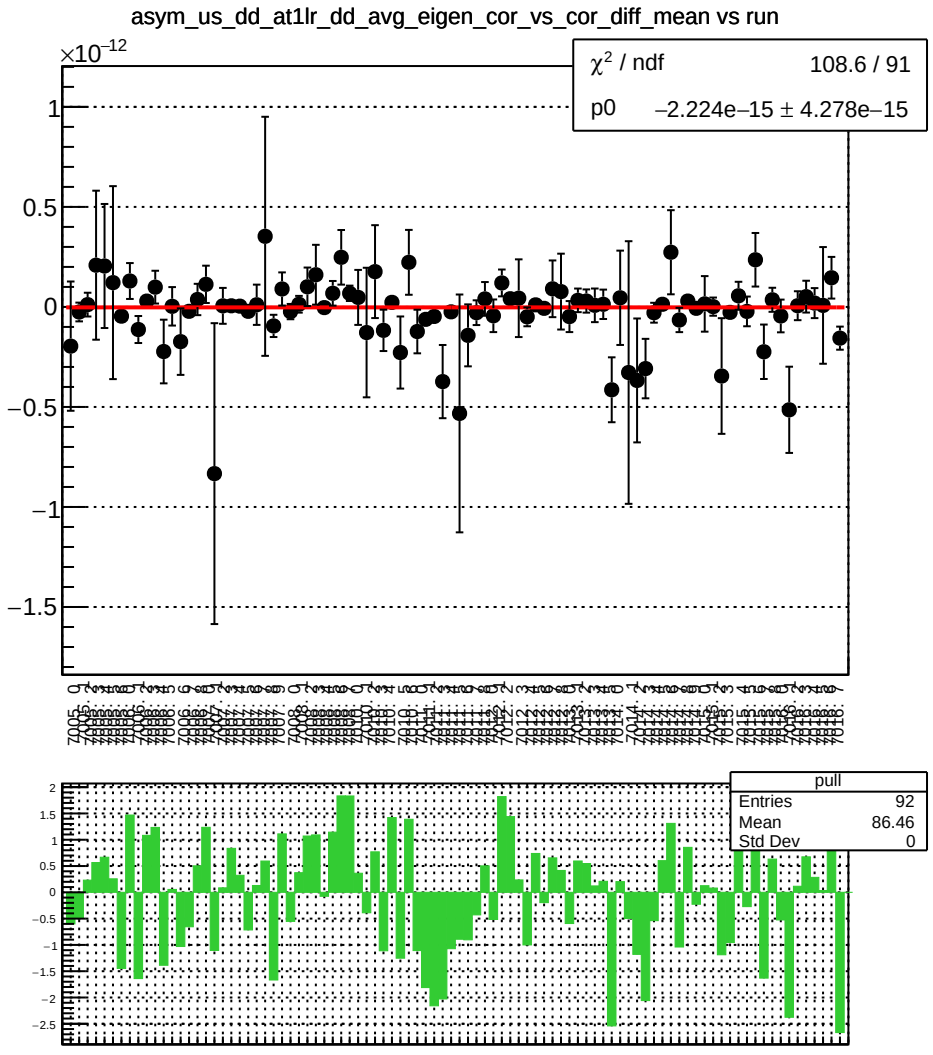

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4316 / 91
p0 0.003253 ± 2.487e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029

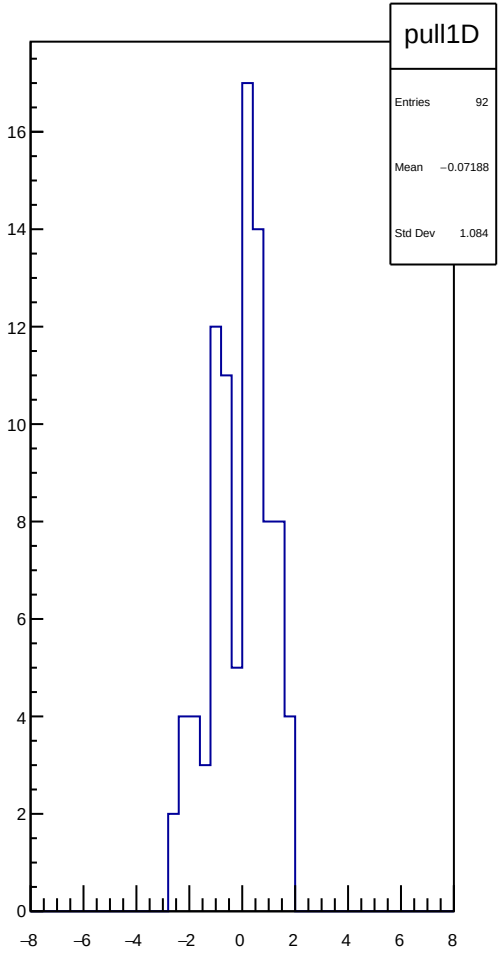

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.57 / 91
p0 −0.0258 ± 0.04455
pull
Entries 92
Mean 225.1
Std Dev 0
pull1D
Entries 92
Mean 0.01776
Std Dev 1.035

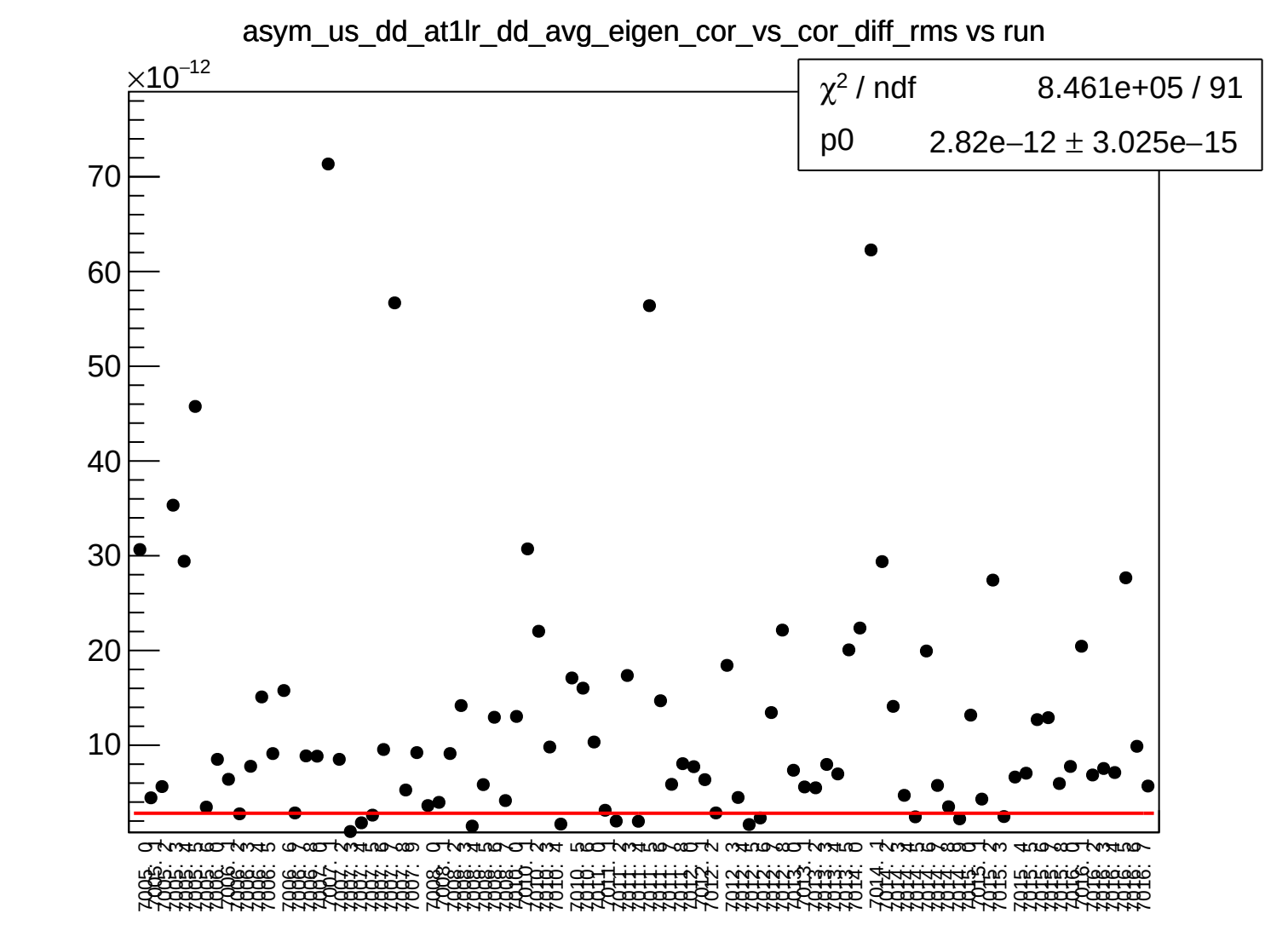

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 91
p0 39.18 ± 0.0315
90
80
70
60
50
40
30
20

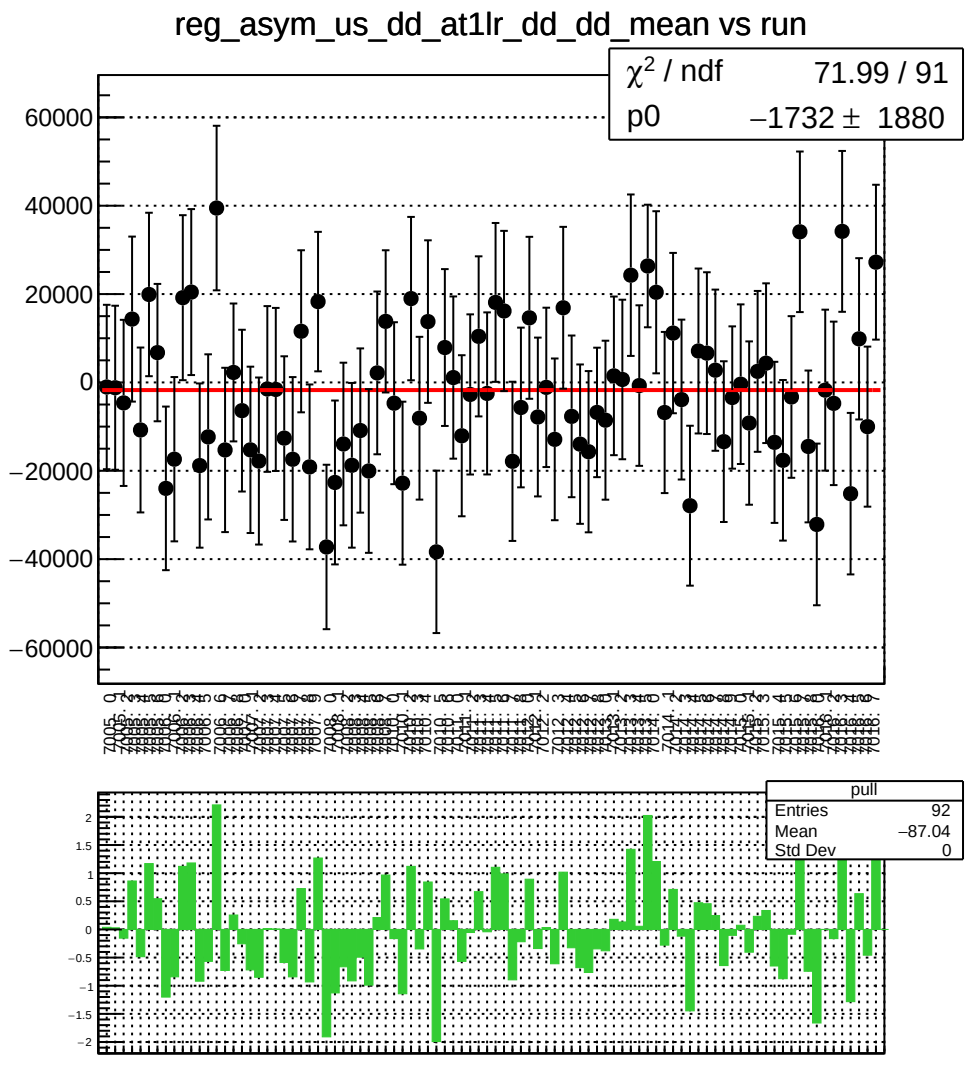

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.57 / 91
p0 −0.0258 ± 0.04455
pull
Entries 92
Mean 225.1
Std Dev 0
pull1D
Entries 92
Mean 0.01776
Std Dev 1.035

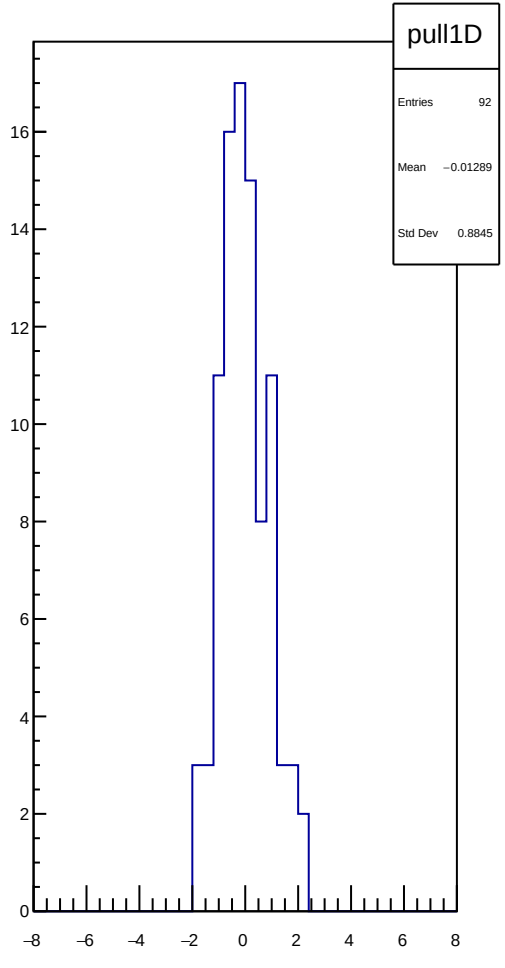

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.683e+05 / 91
p0 39.18 ± 0.0315
90
80
70
60
50
40
30
20

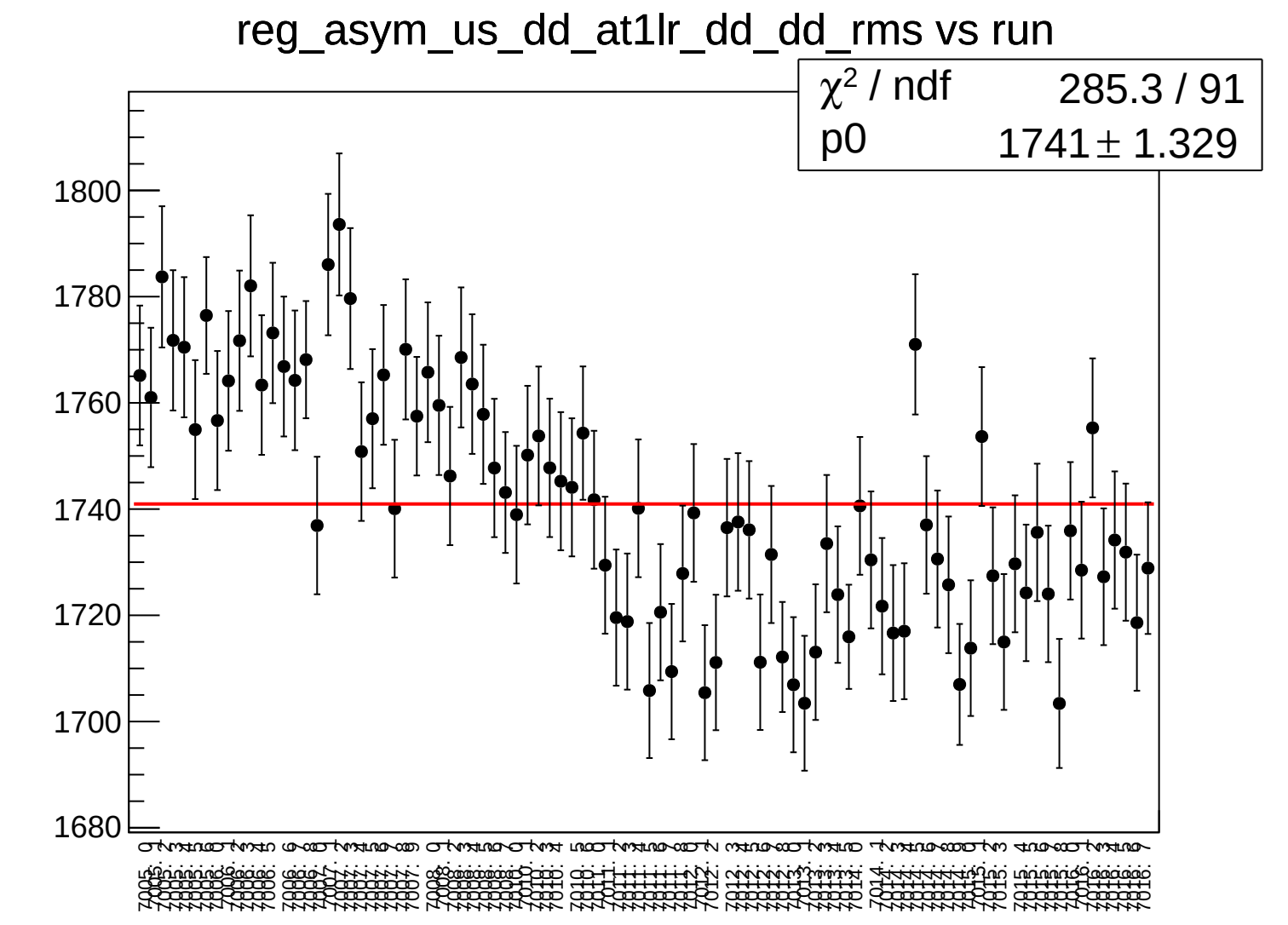

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.6 / 91
p0 −2.224e−15 ± 4.278e−15
pull
Entries 92
Mean 86.46
Std Dev 0

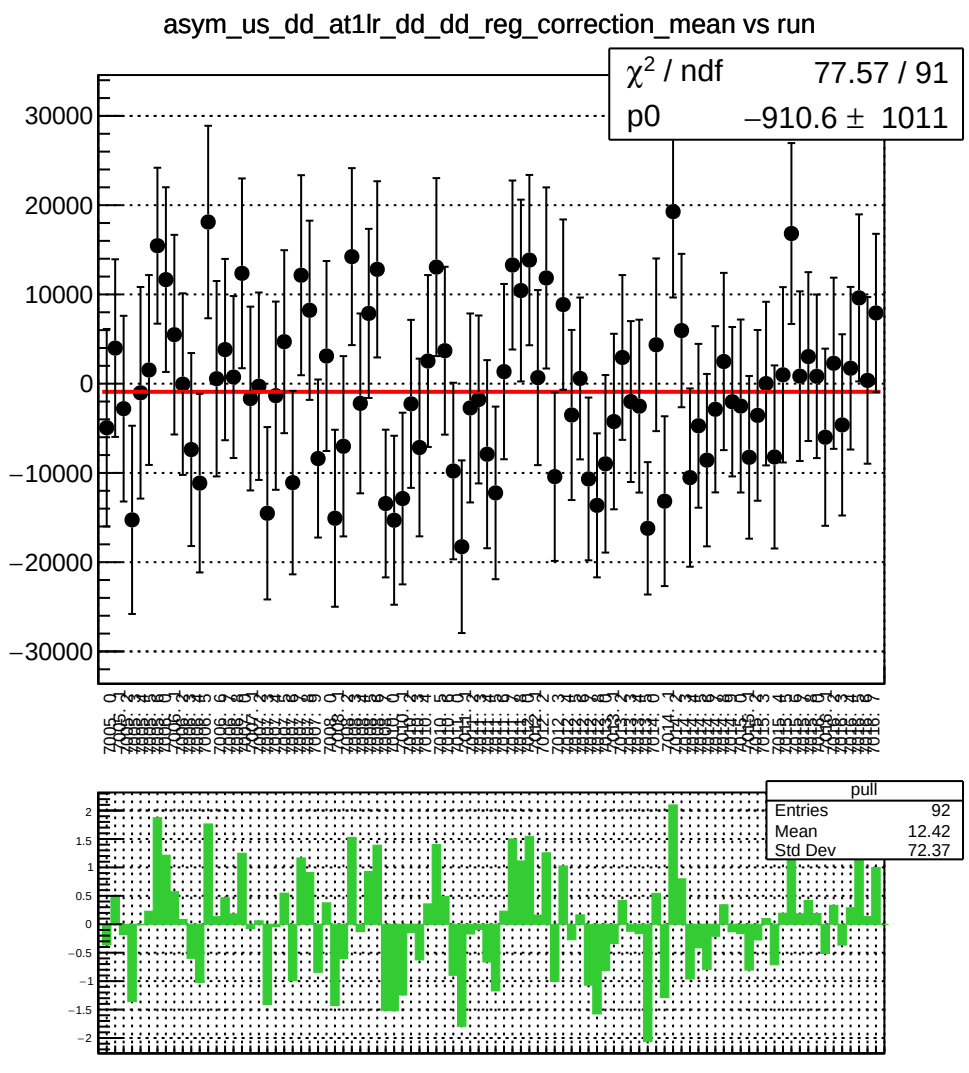

pull1D
Entries 92
Mean −0.07188
Std Dev 1.084

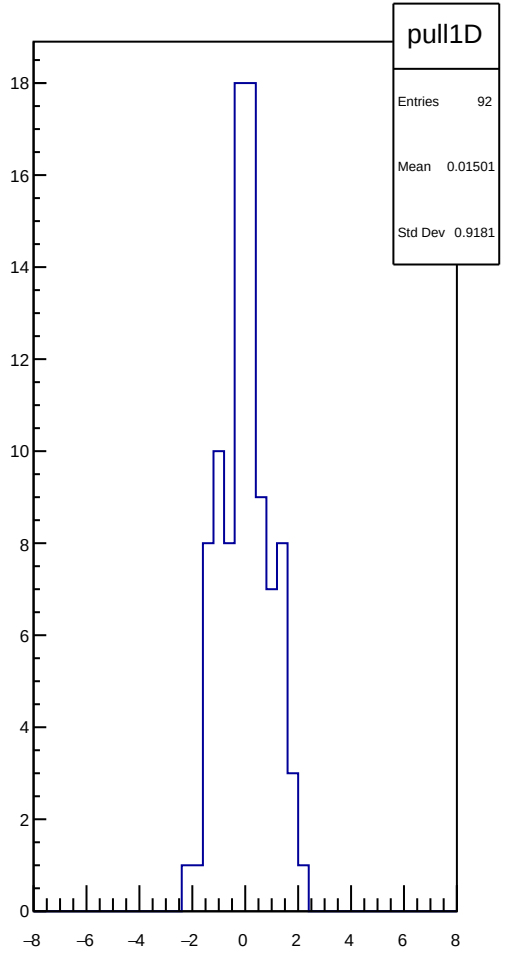

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.461e+05 / 91
p0 2.82e−12 ± 3.025e−15
70
60
50
40
30
20
10

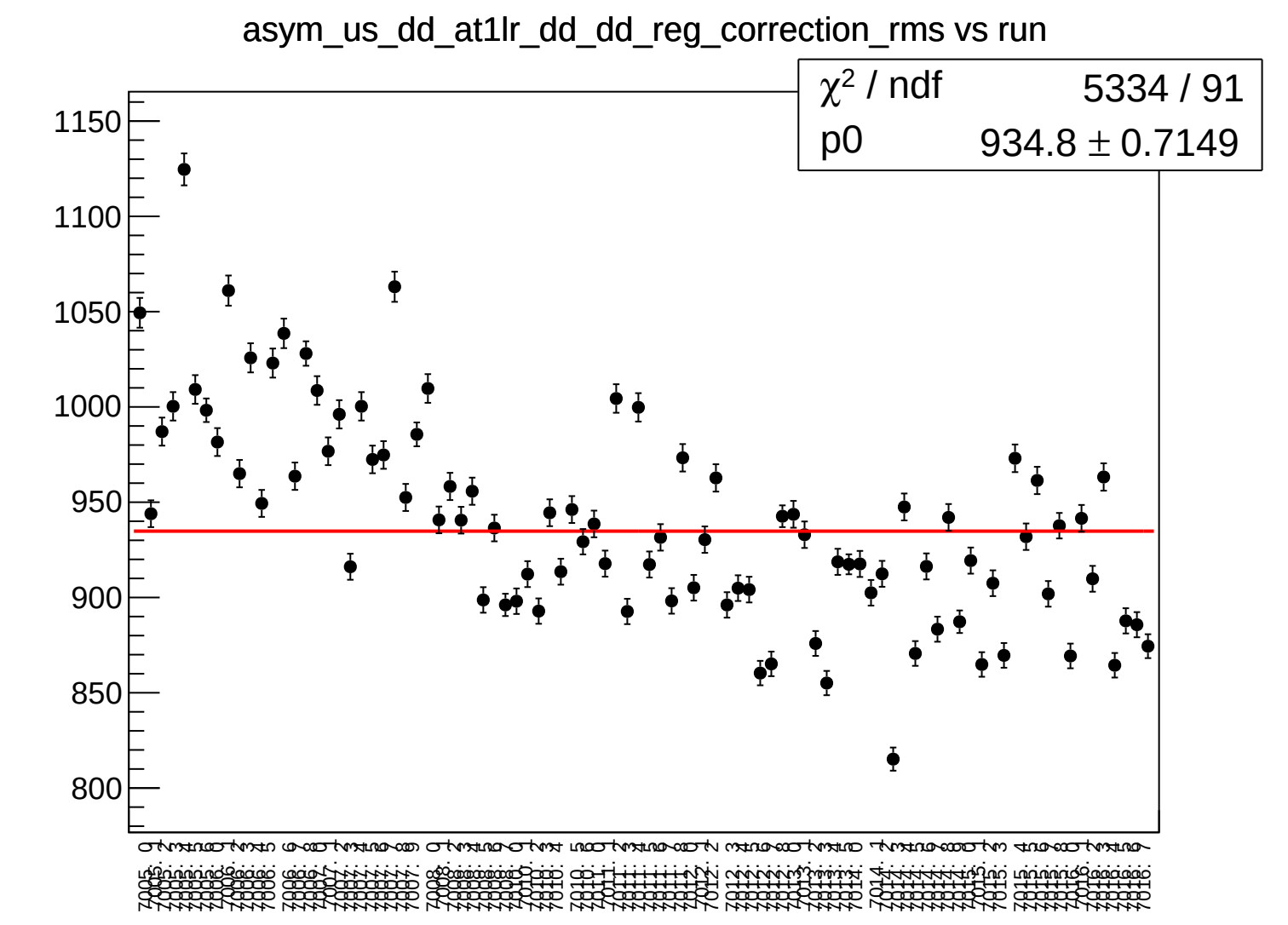

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.99 / 91
p0 −1732 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −87.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

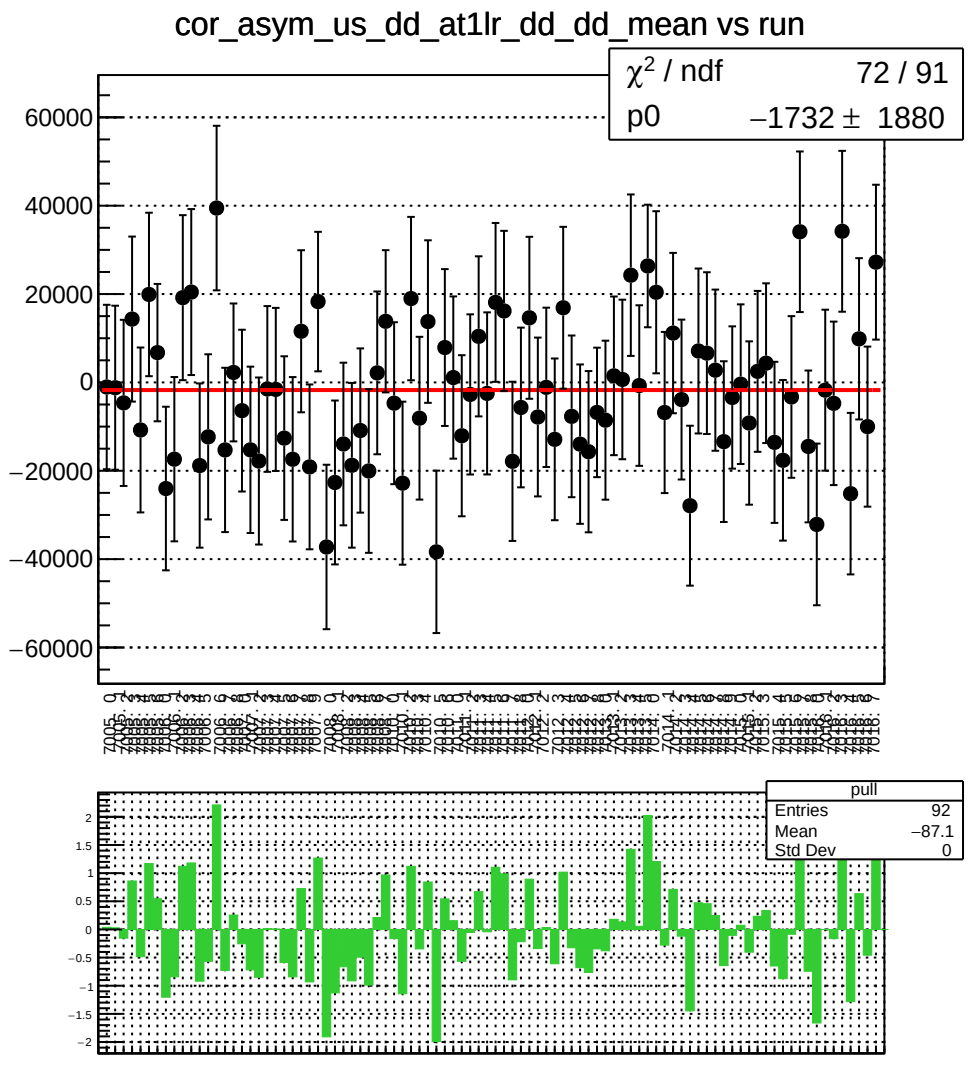

pull1D
Entries 92
Mean −0.01289
Std Dev 0.8845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

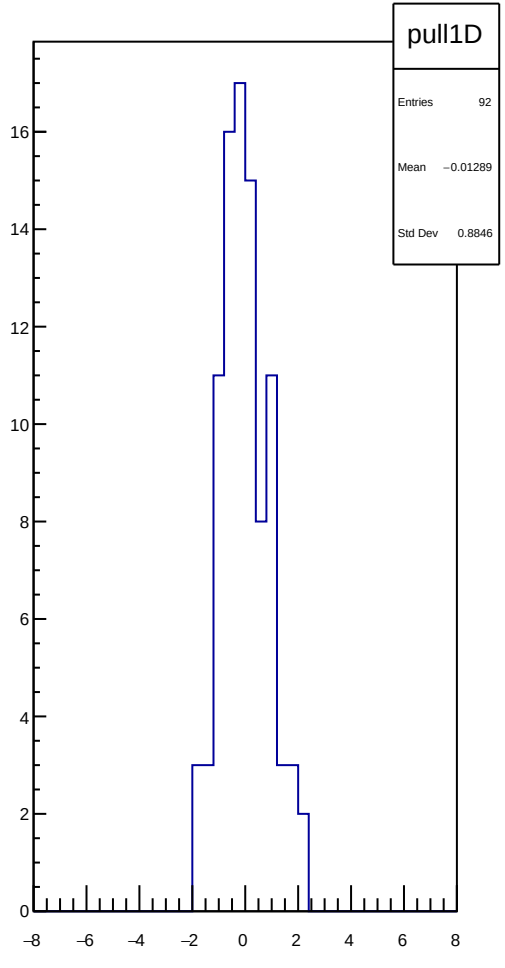

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 285.3 / 91
p0 1741 ± 1.329
1800
1780
1760
1740
1720
1700
1680

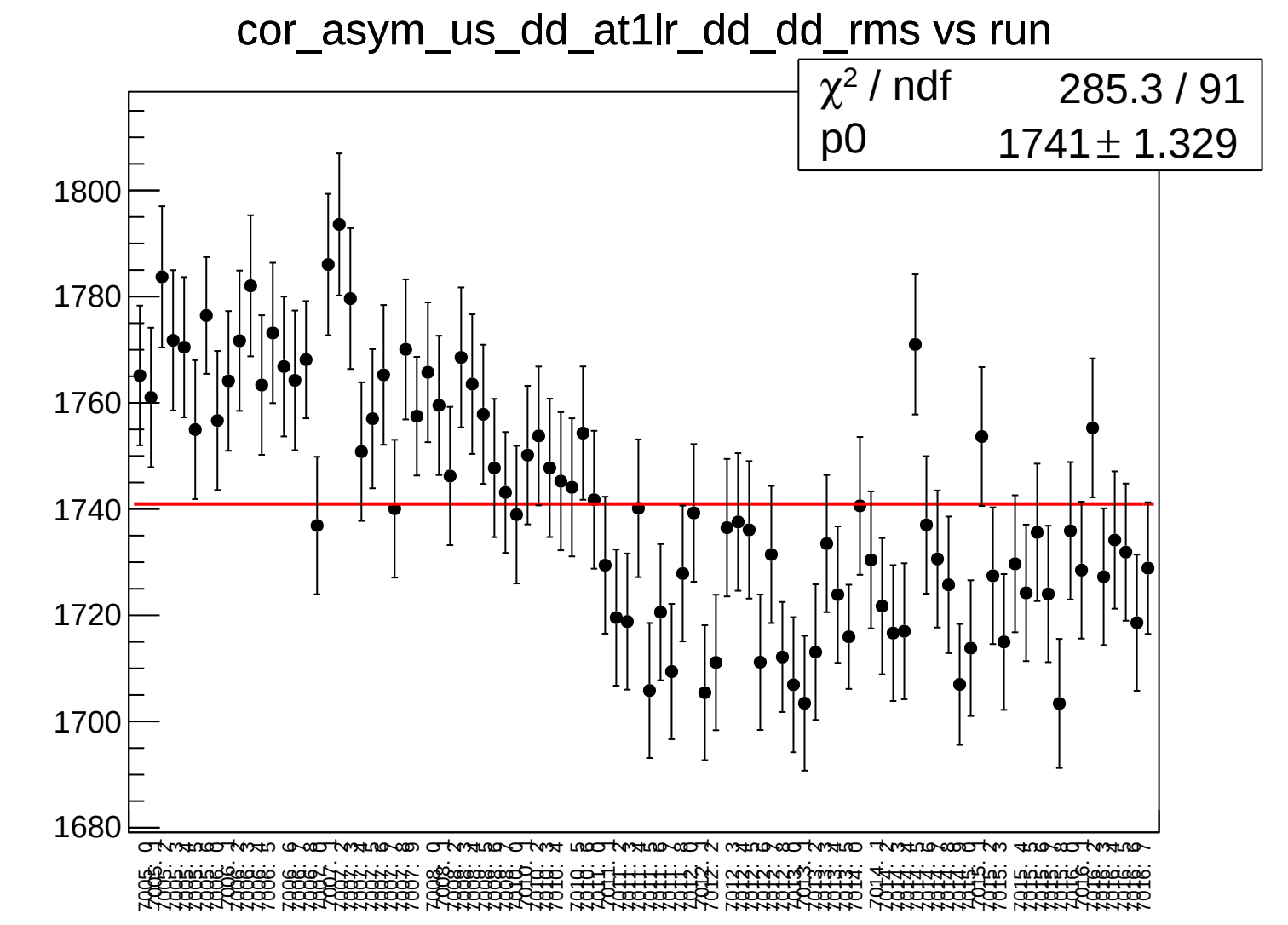

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 77.57 / 91
p0 −910.6 ± 1011
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 12.42
Std Dev 72.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

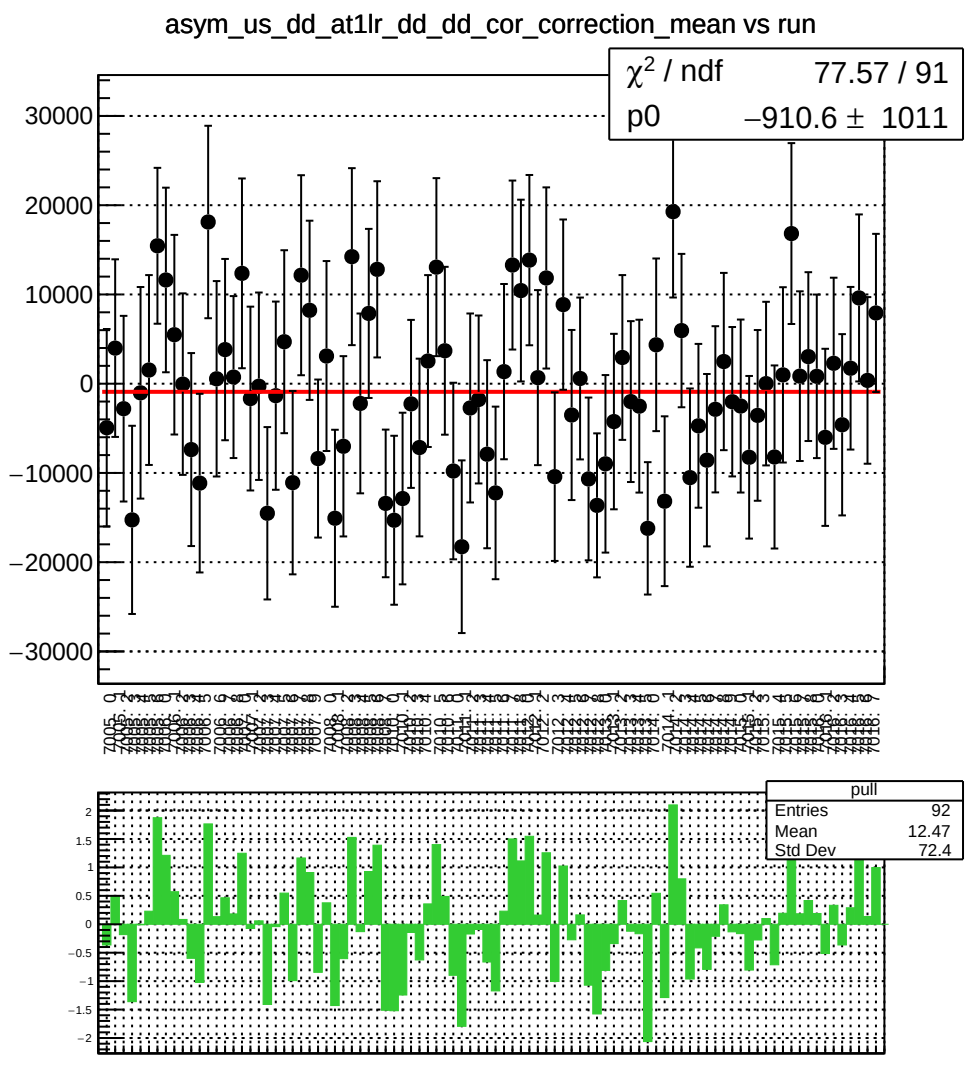

pull1D
Entries 92
Mean 0.01501
Std Dev 0.9181
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

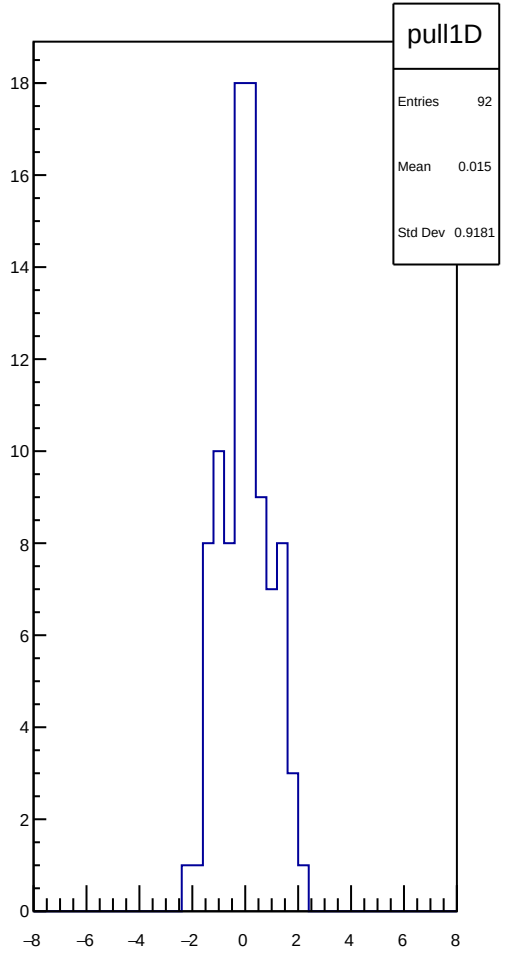

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5334 / 91
p0 934.8 ± 0.7149
1150
1100
1050
1000
950
900
850
800

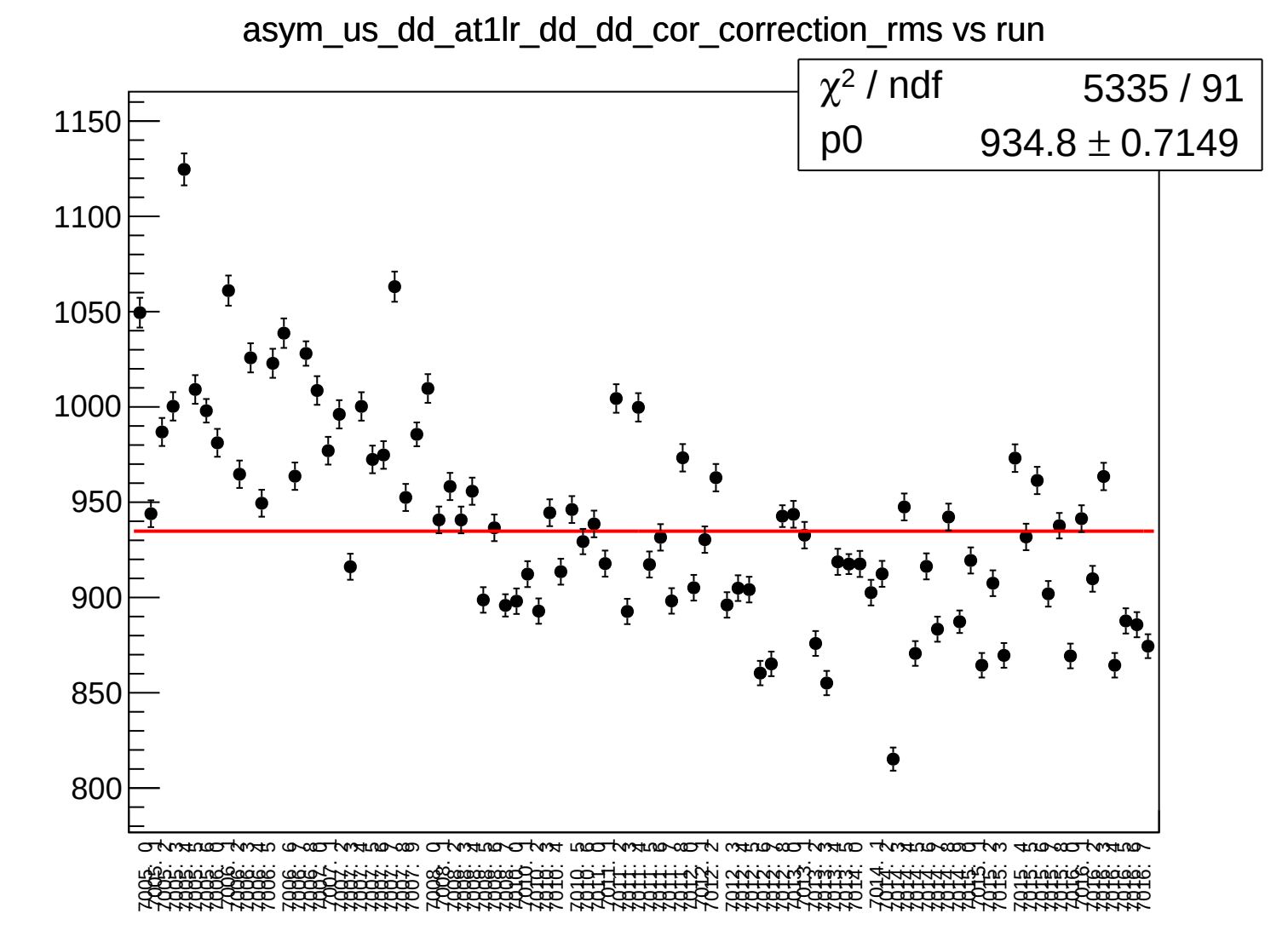

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 72 / 91
p0 −1732 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −87.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

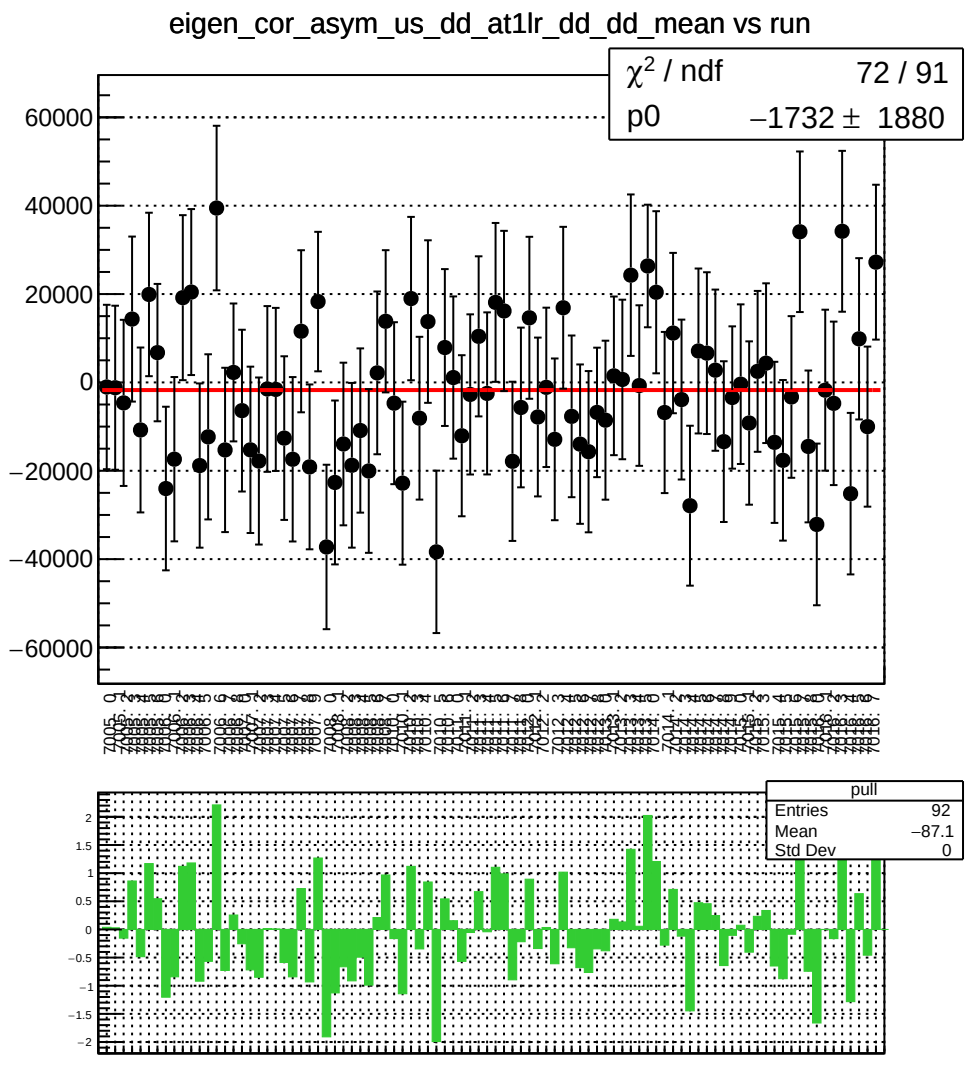

pull1D
Entries 92
Mean −0.01289
Std Dev 0.8846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

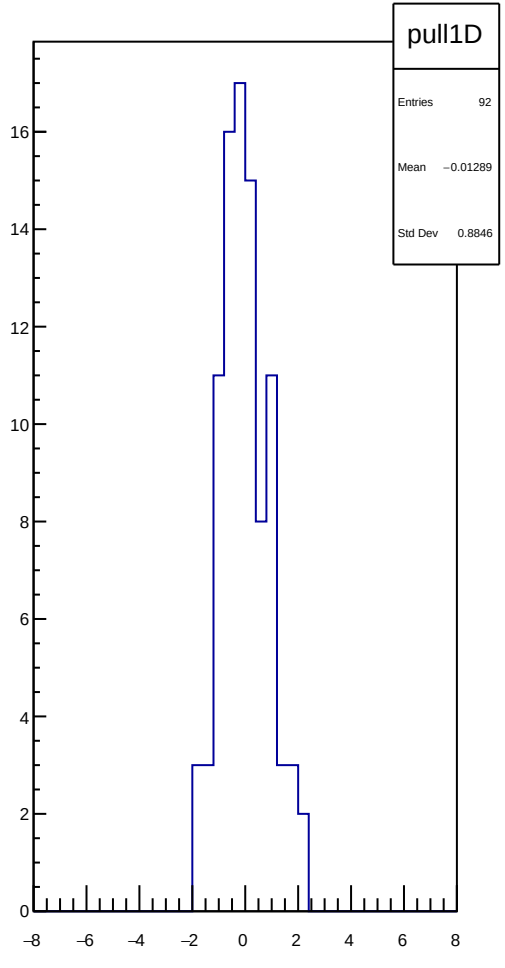

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 285.3 / 91
p0 1741 ± 1.329
1800
1780
1760
1740
1720
1700
1680

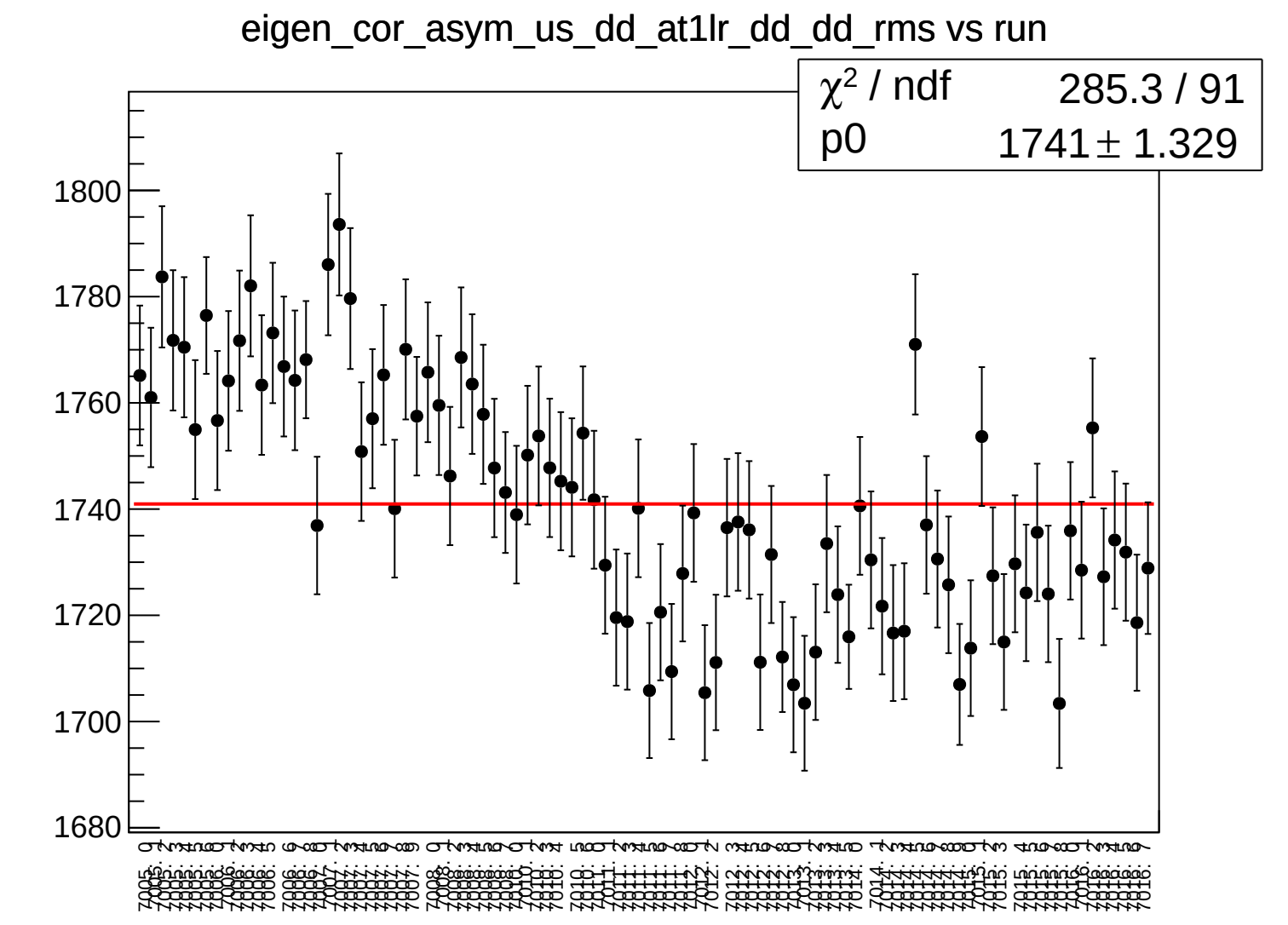

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 77.57 / 91
p0 −910.6 ± 1011
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 12.47
Std Dev 72.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

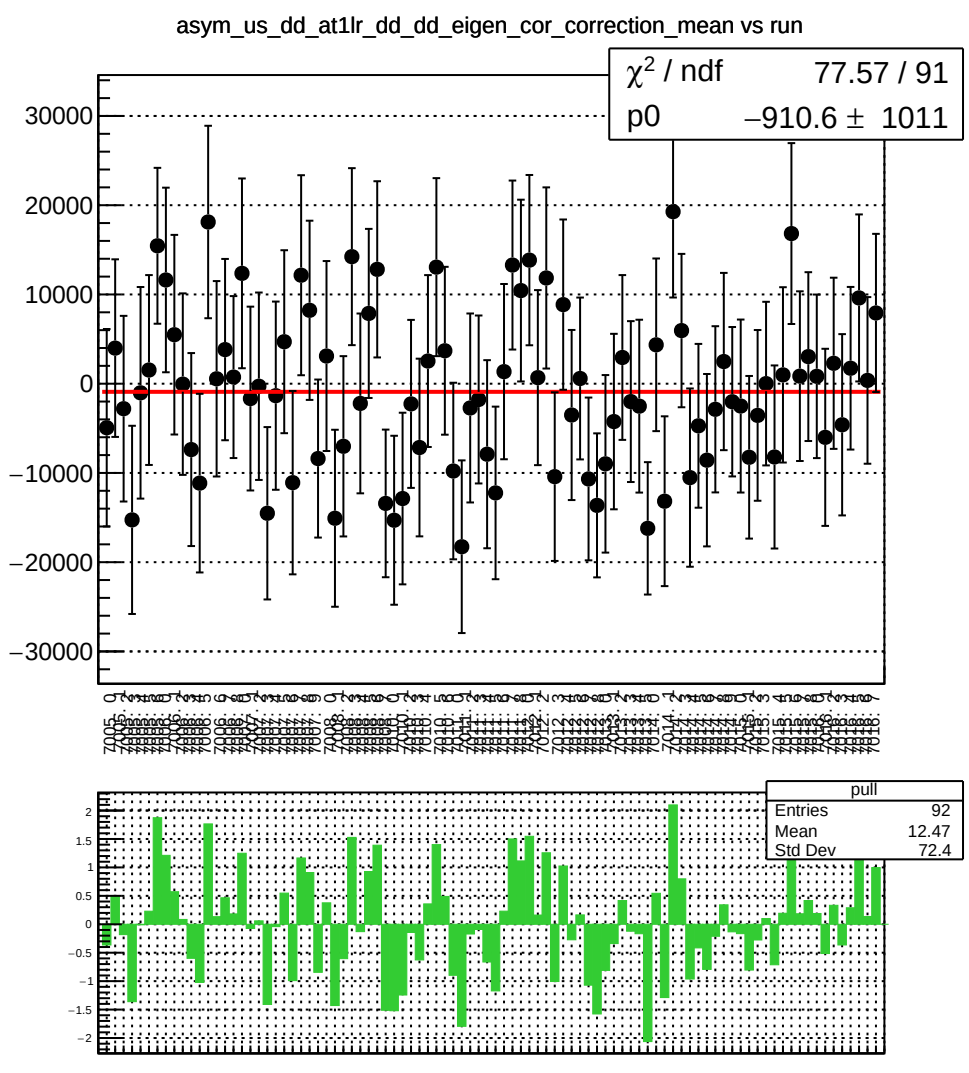

pull1D
Entries 92
Mean 0.015
Std Dev 0.9181
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

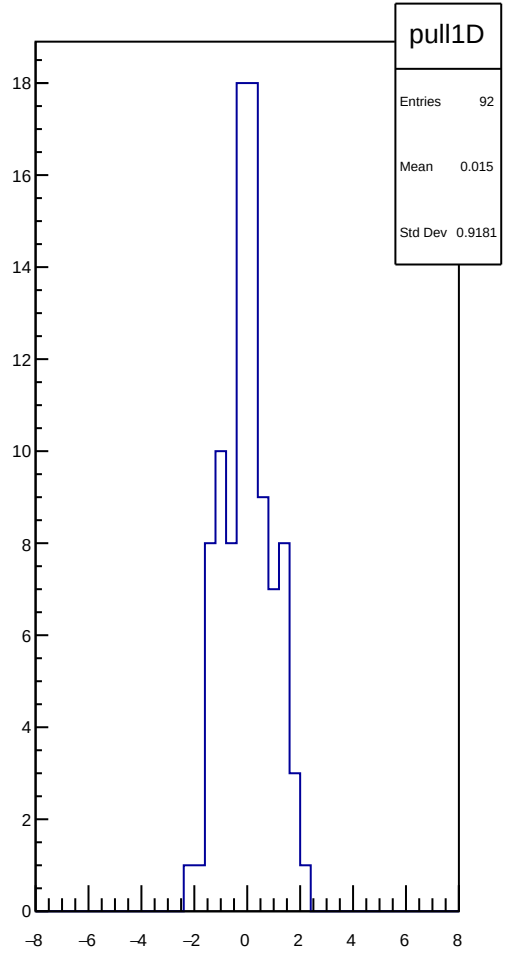

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5335 / 91
p0 934.8 ± 0.7149
1150
1100
1050
1000
950
900
850
800

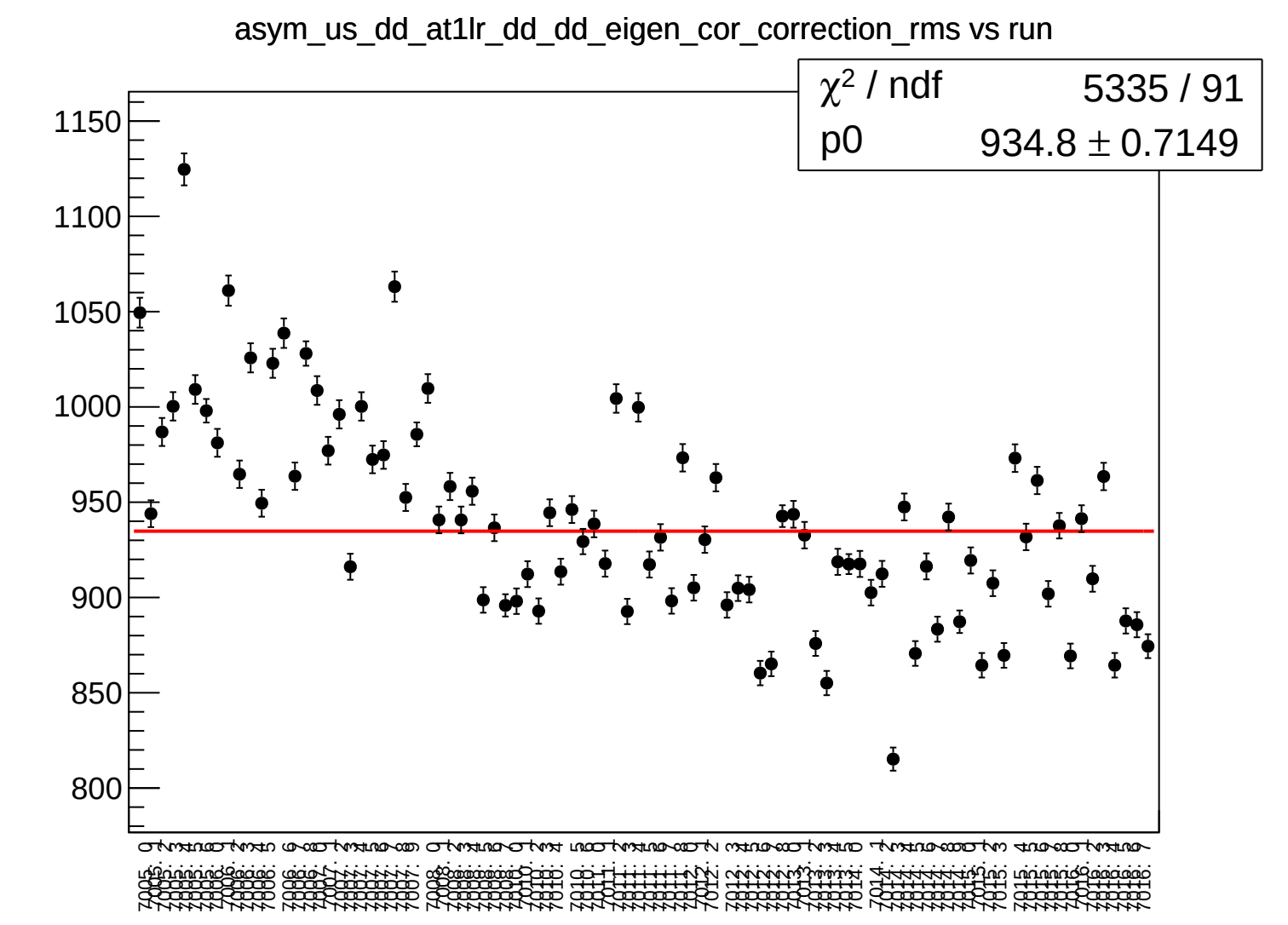

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 72 / 91
p0 −1732 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −87.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

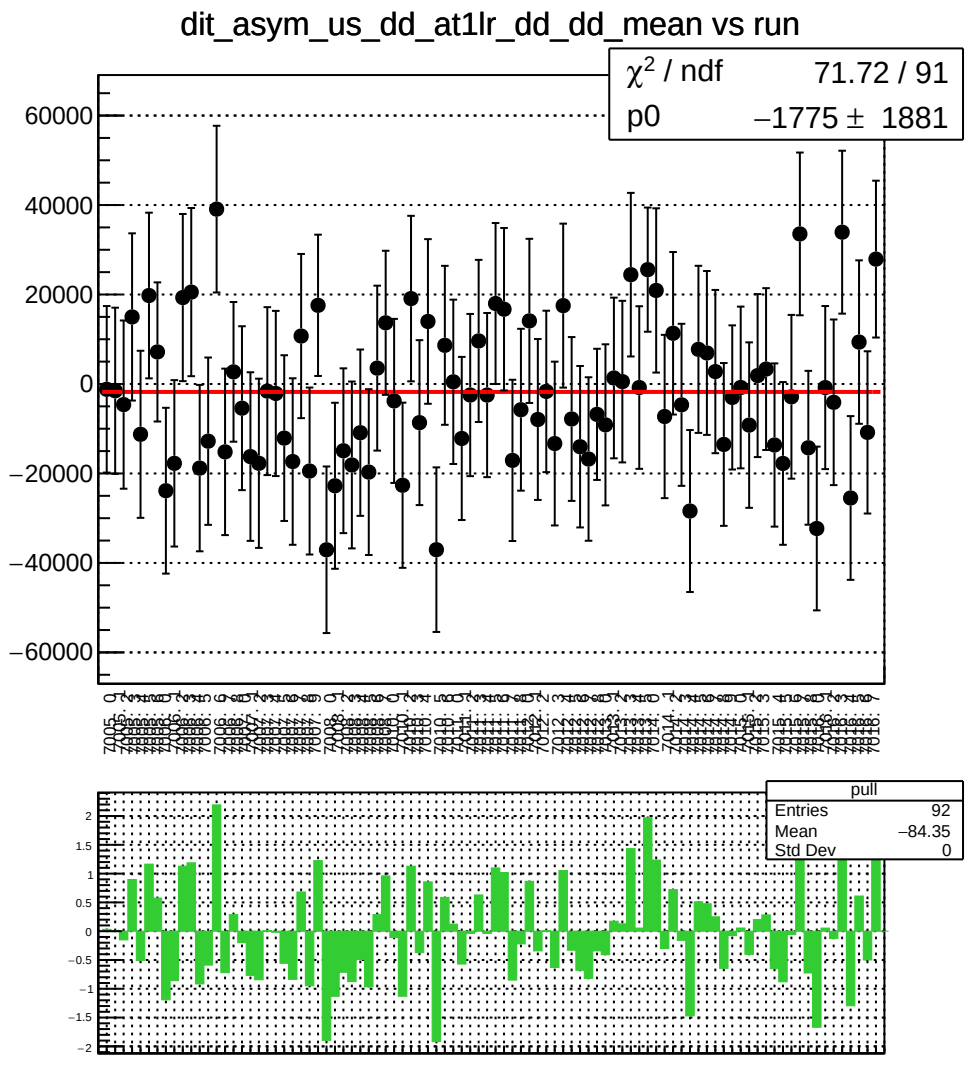

pull1D
Entries 92
Mean −0.01289
Std Dev 0.8846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

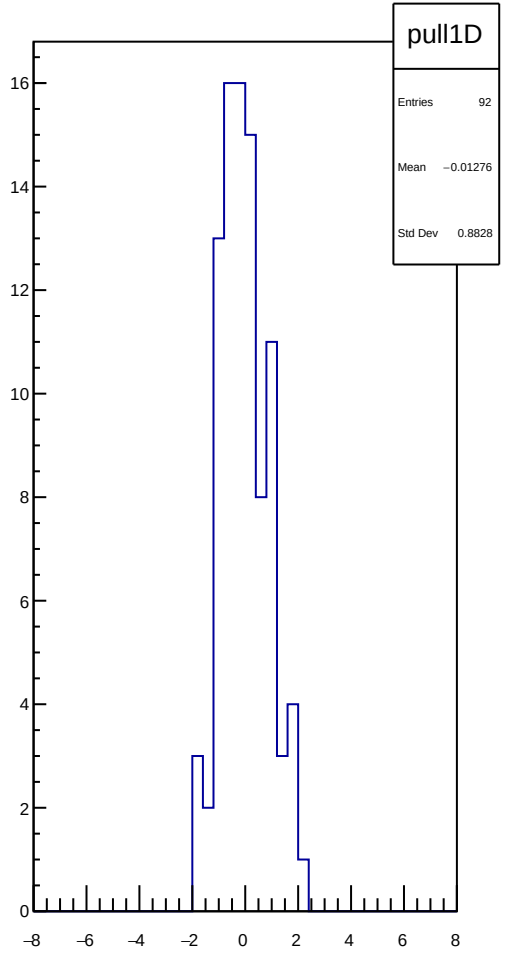

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 285.3 / 91
p0 1741 ± 1.329
1800
1780
1760
1740
1720
1700
1680

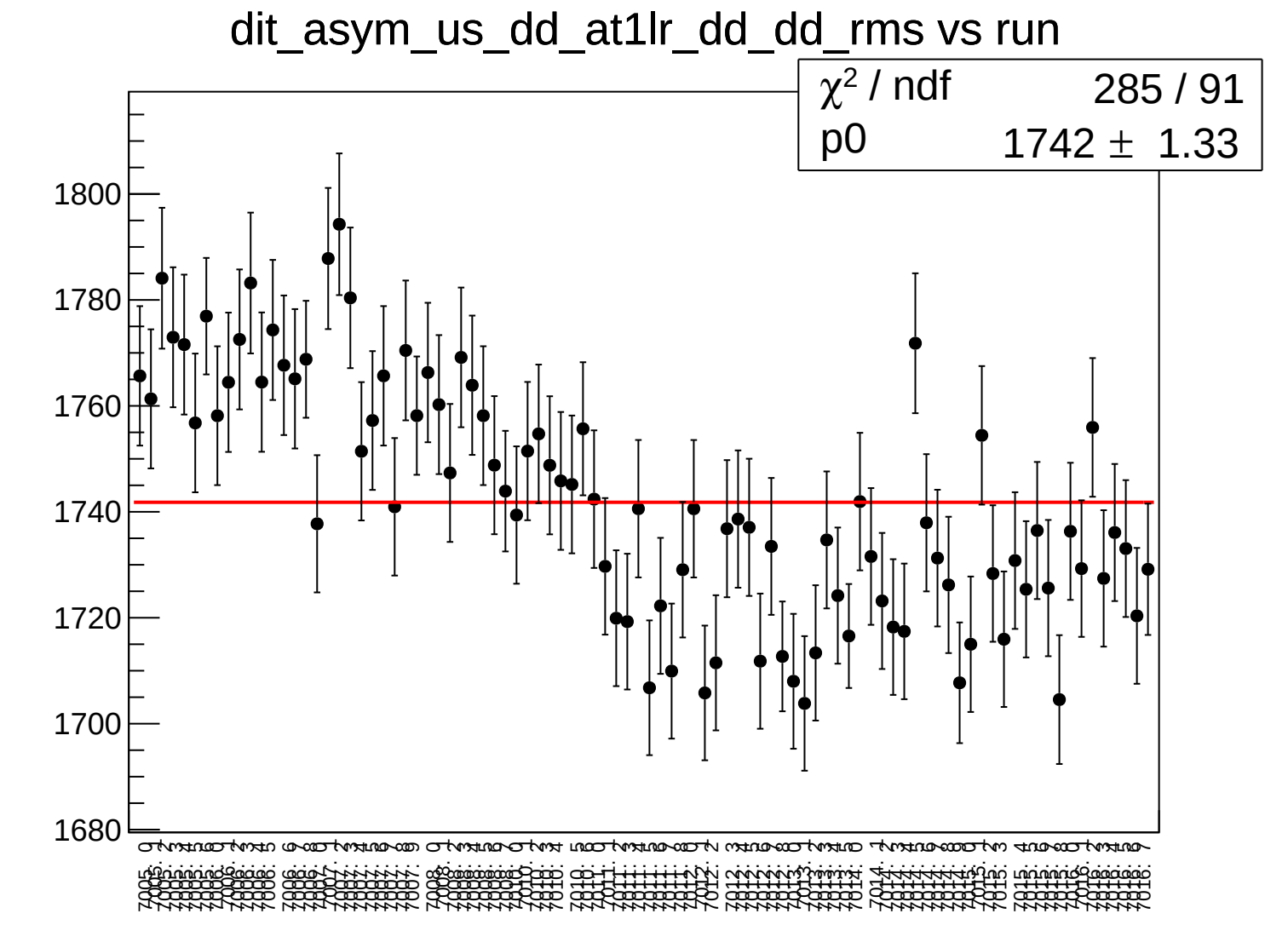

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.57 / 91
p0 −910.6 ± 1011
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 12.47
Std Dev 72.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

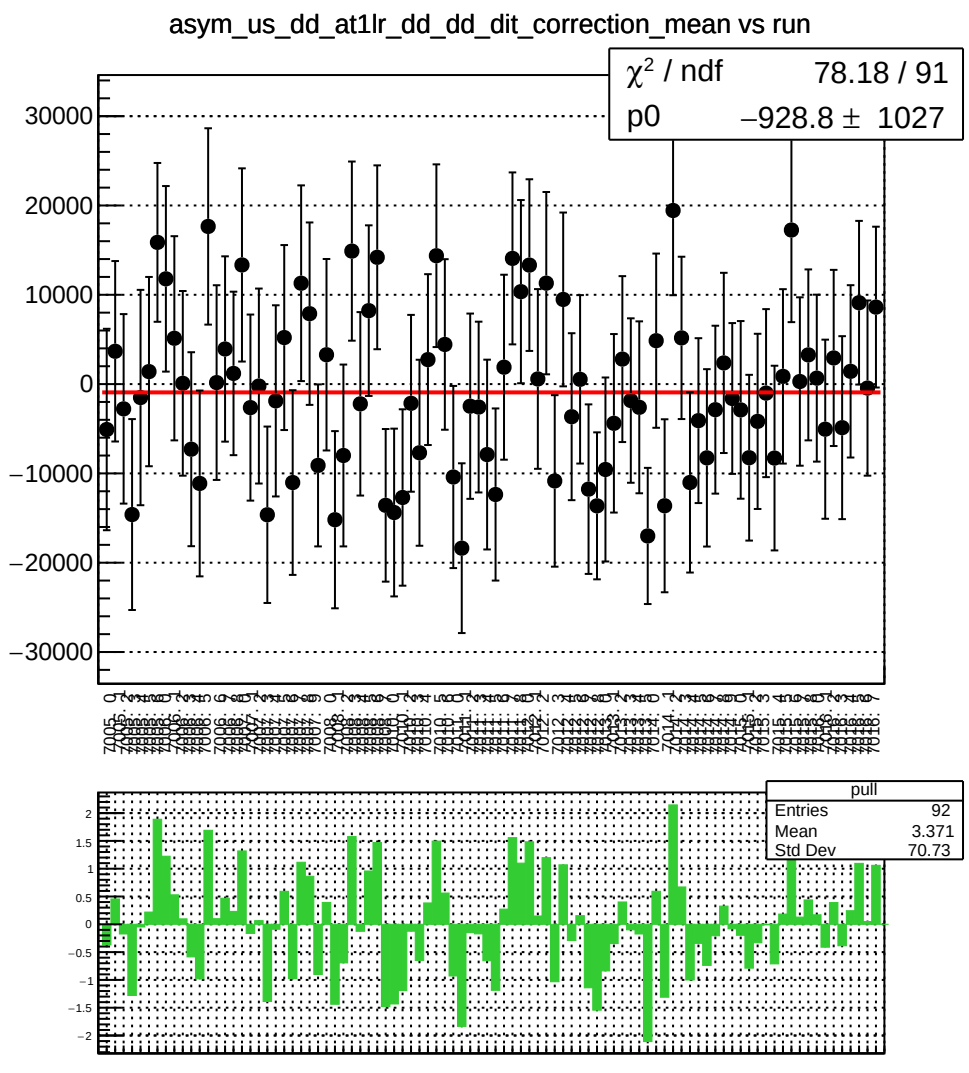

pull1D
Entries 92
Mean 0.015
Std Dev 0.9181
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

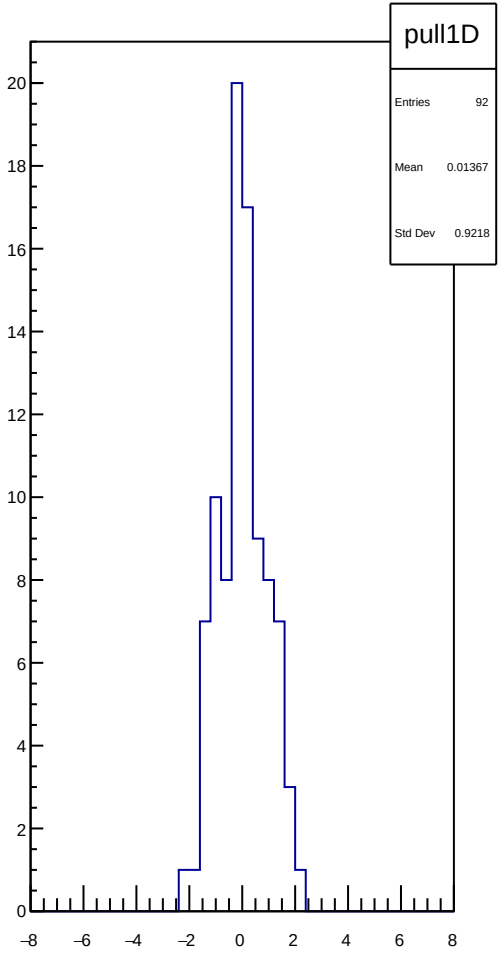

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5335 / 91
p0 934.8 ± 0.7149
1150
1100
1050
1000
950
900
850
800

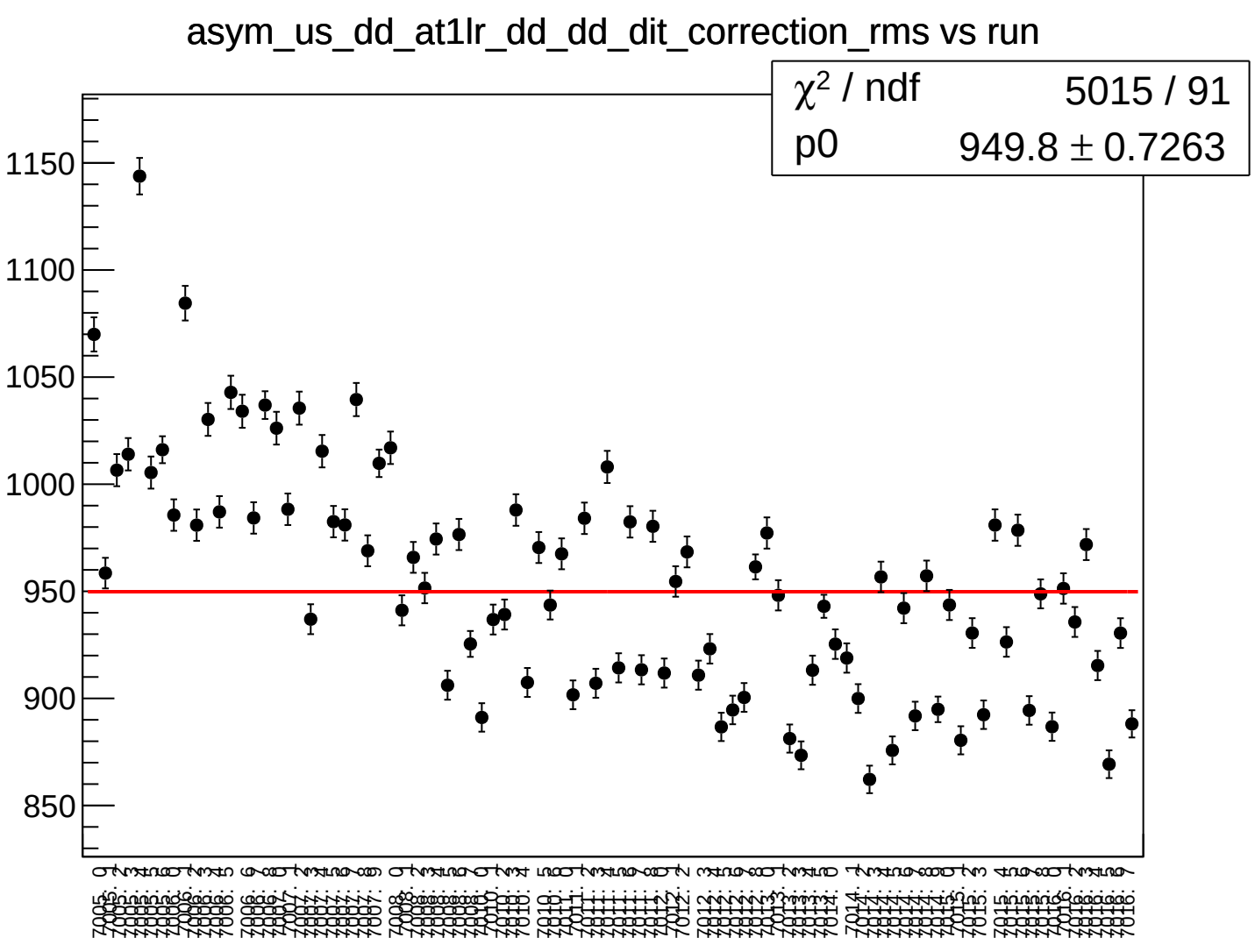

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.72 / 91
p0 −1775 ± 1881
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −84.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

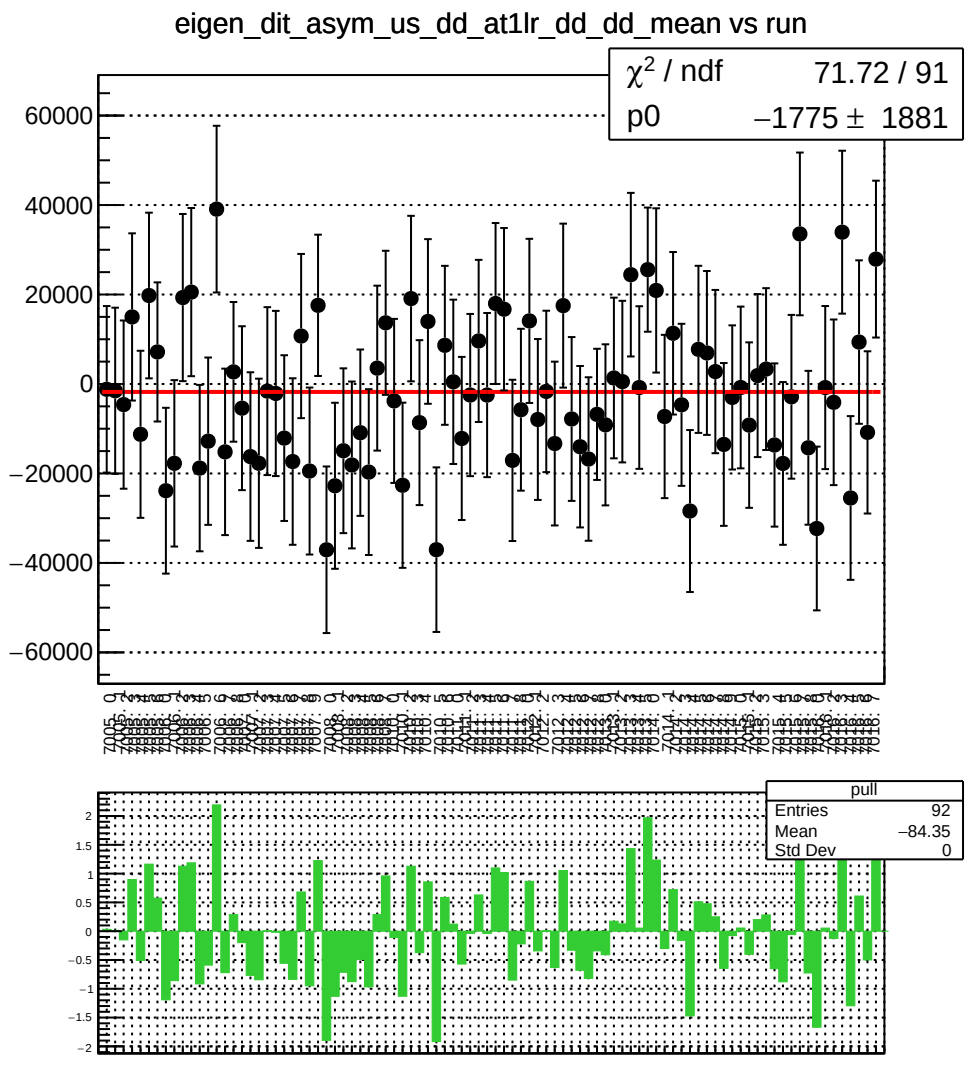

pull1D
Entries 92
Mean −0.01276
Std Dev 0.8828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

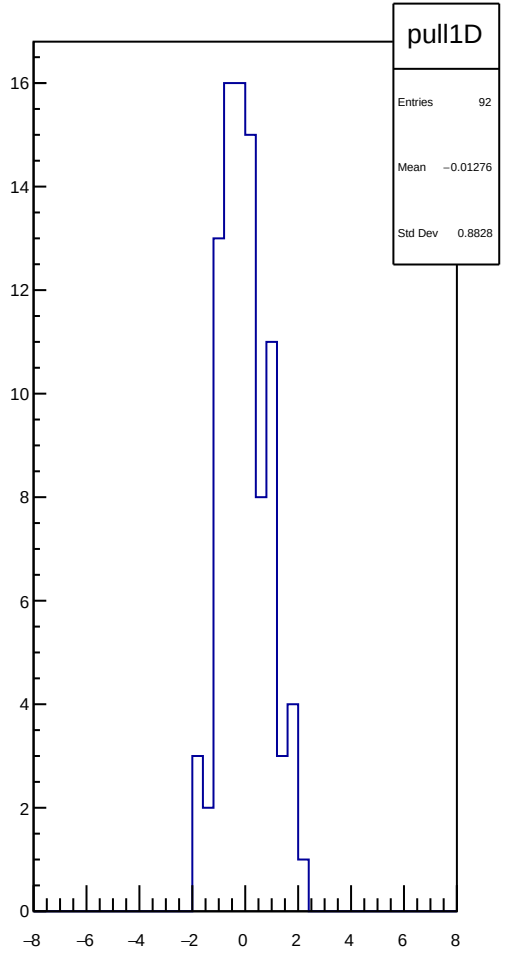

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 285 / 91
p0 1742 ± 1.33
1800
1780
1760
1740
1720
1700
1680

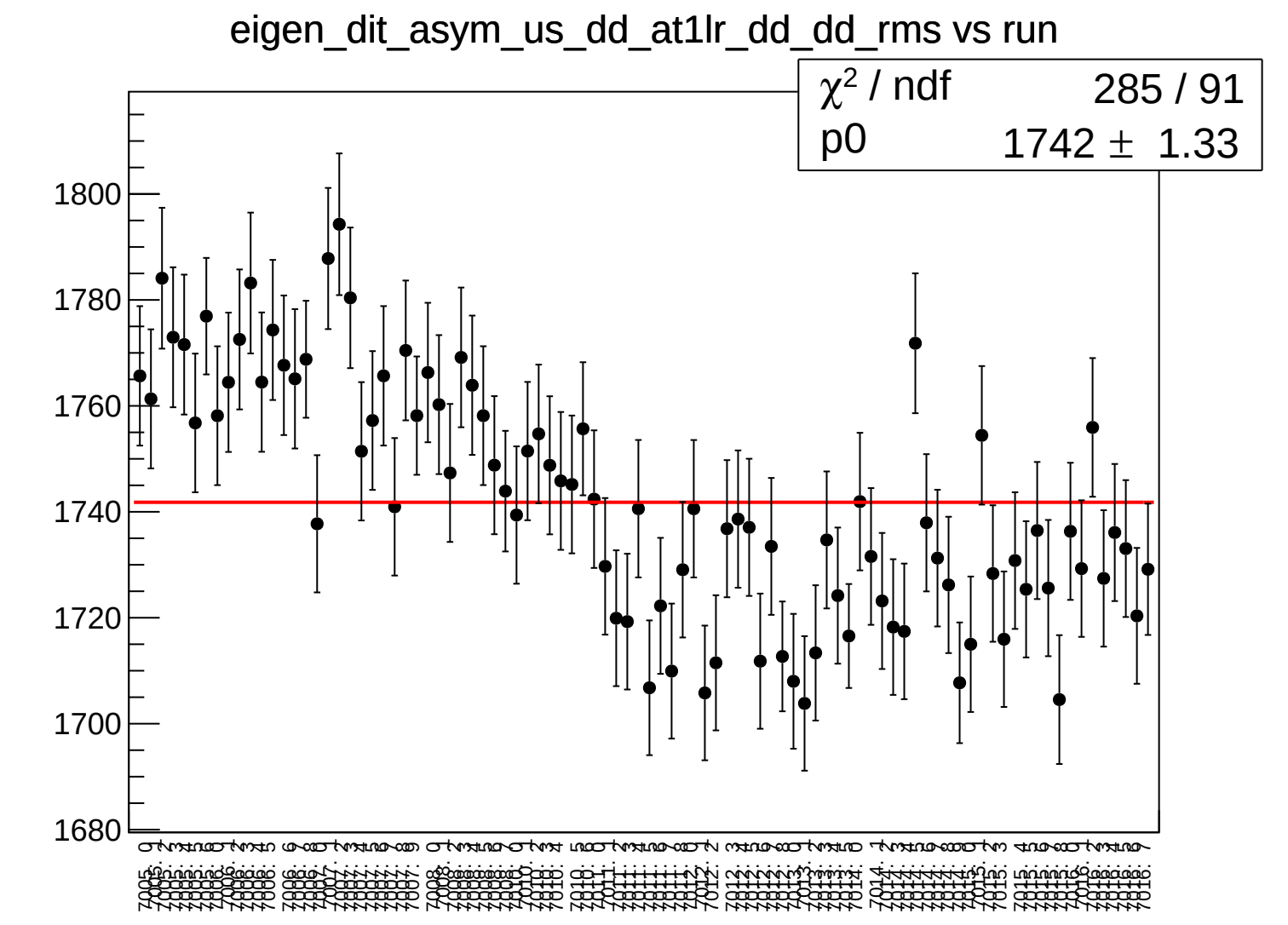

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 78.18 / 91
p0 −928.8 ± 1027
pull
Entries 92
Mean 3.371
Std Dev 70.73

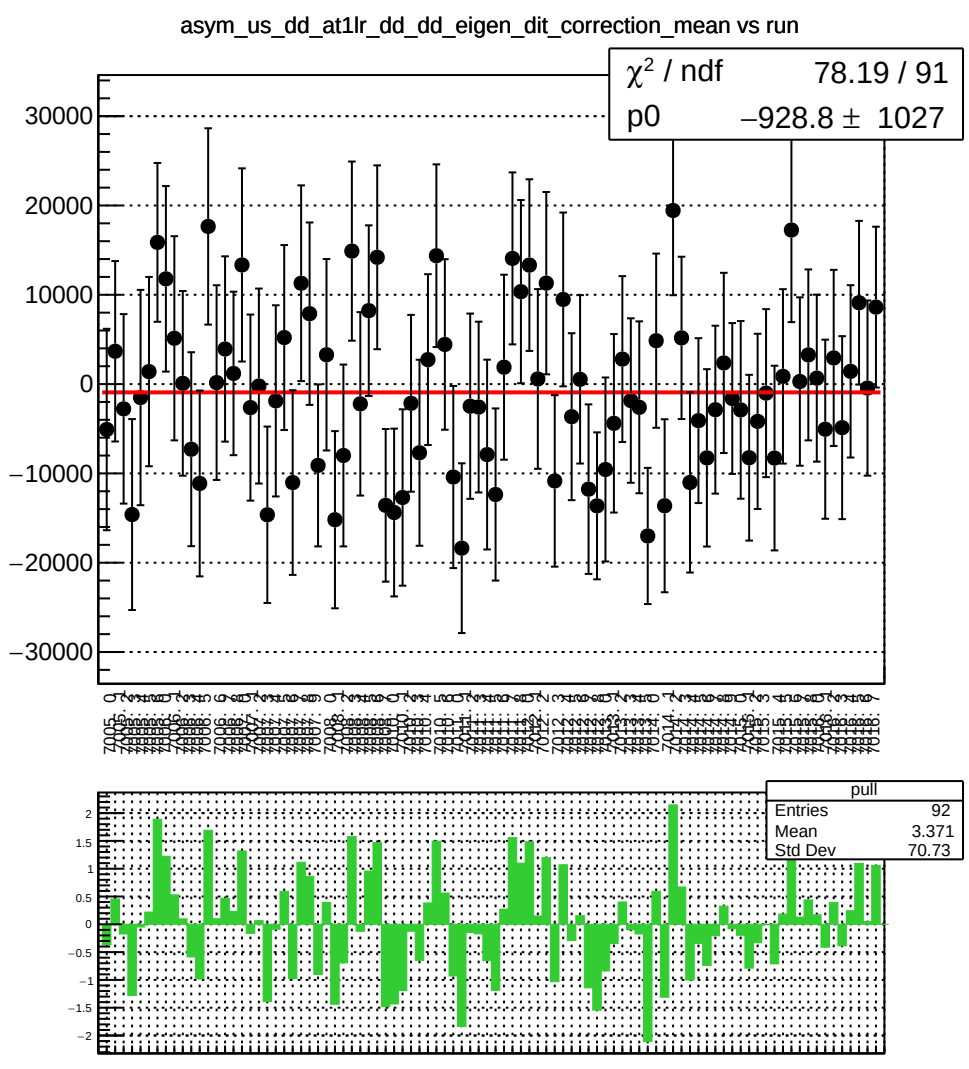

pull1D
Entries 92
Mean 0.01367
Std Dev 0.9218

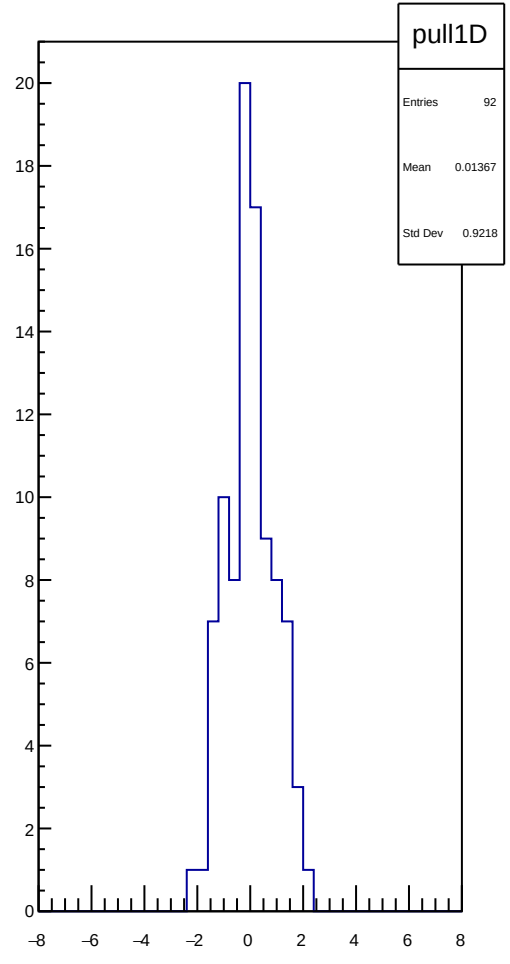

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5015 / 91
p0 949.8 ± 0.7263
1150
1100
1050
1000
950
900
850

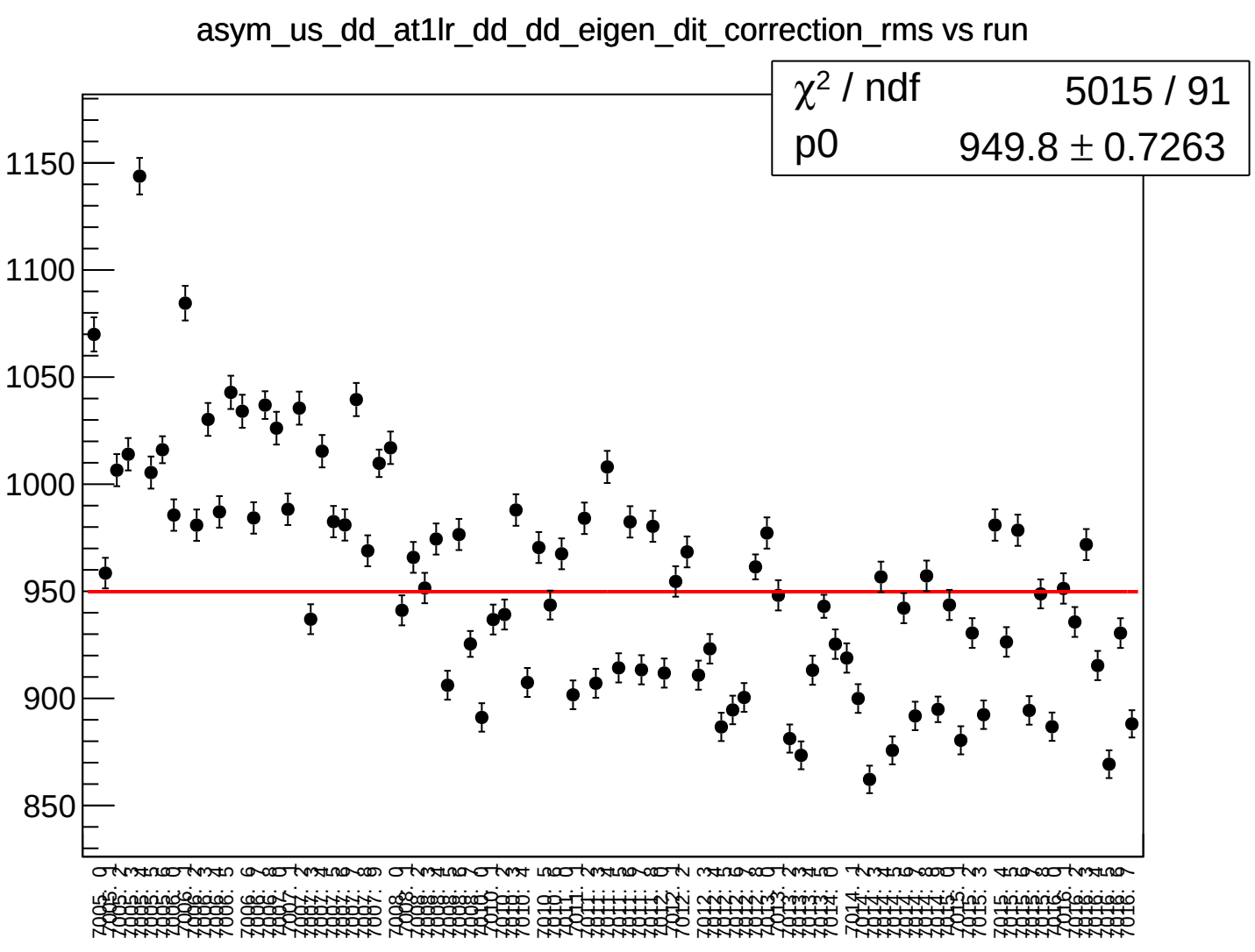

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.72 / 91
p0 −1775 ± 1881
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −84.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

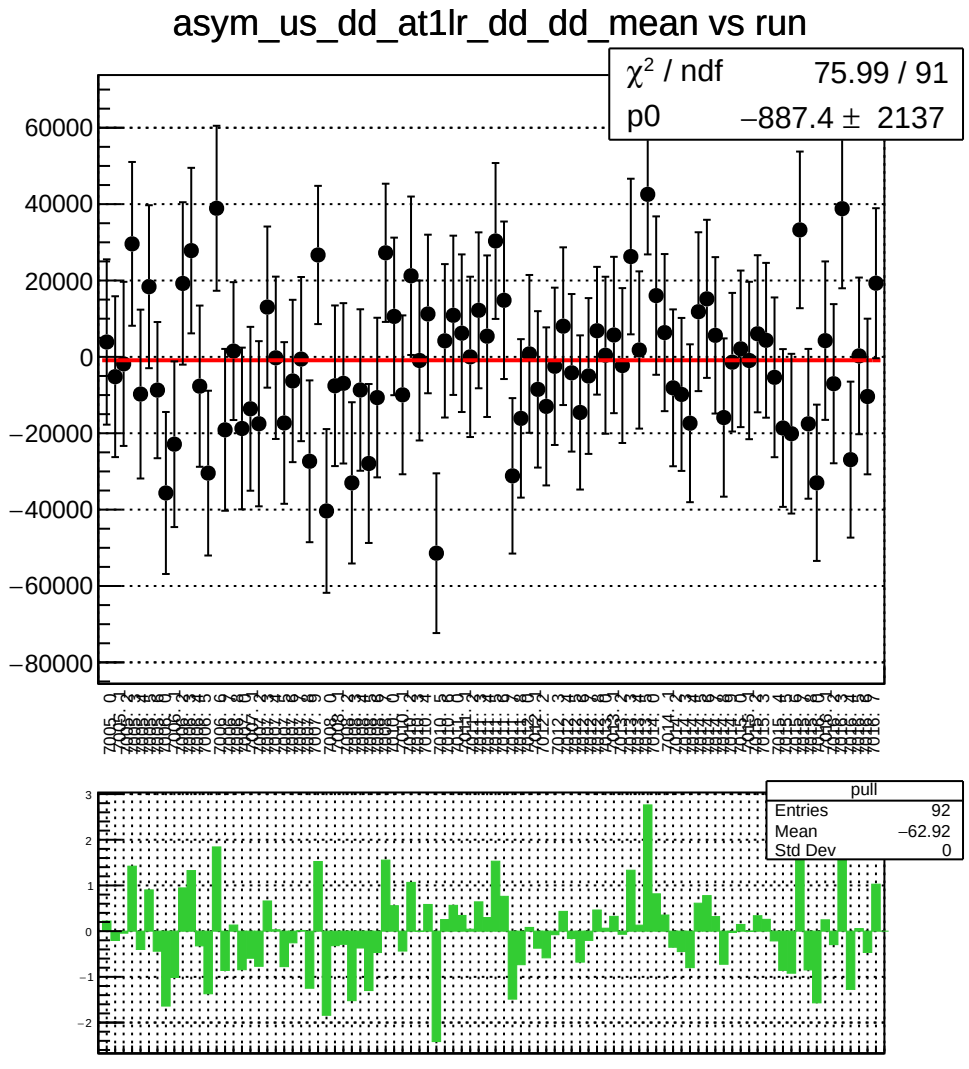

pull1D
Entries 92
Mean −0.01276
Std Dev 0.8828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

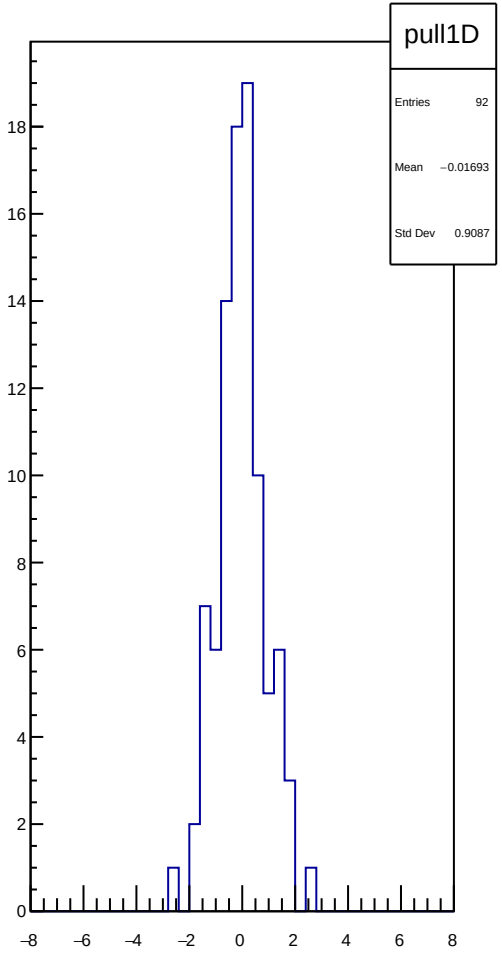

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 285 / 91
p0 1742 ± 1.33
1800
1780
1760
1740
1720
1700
1680

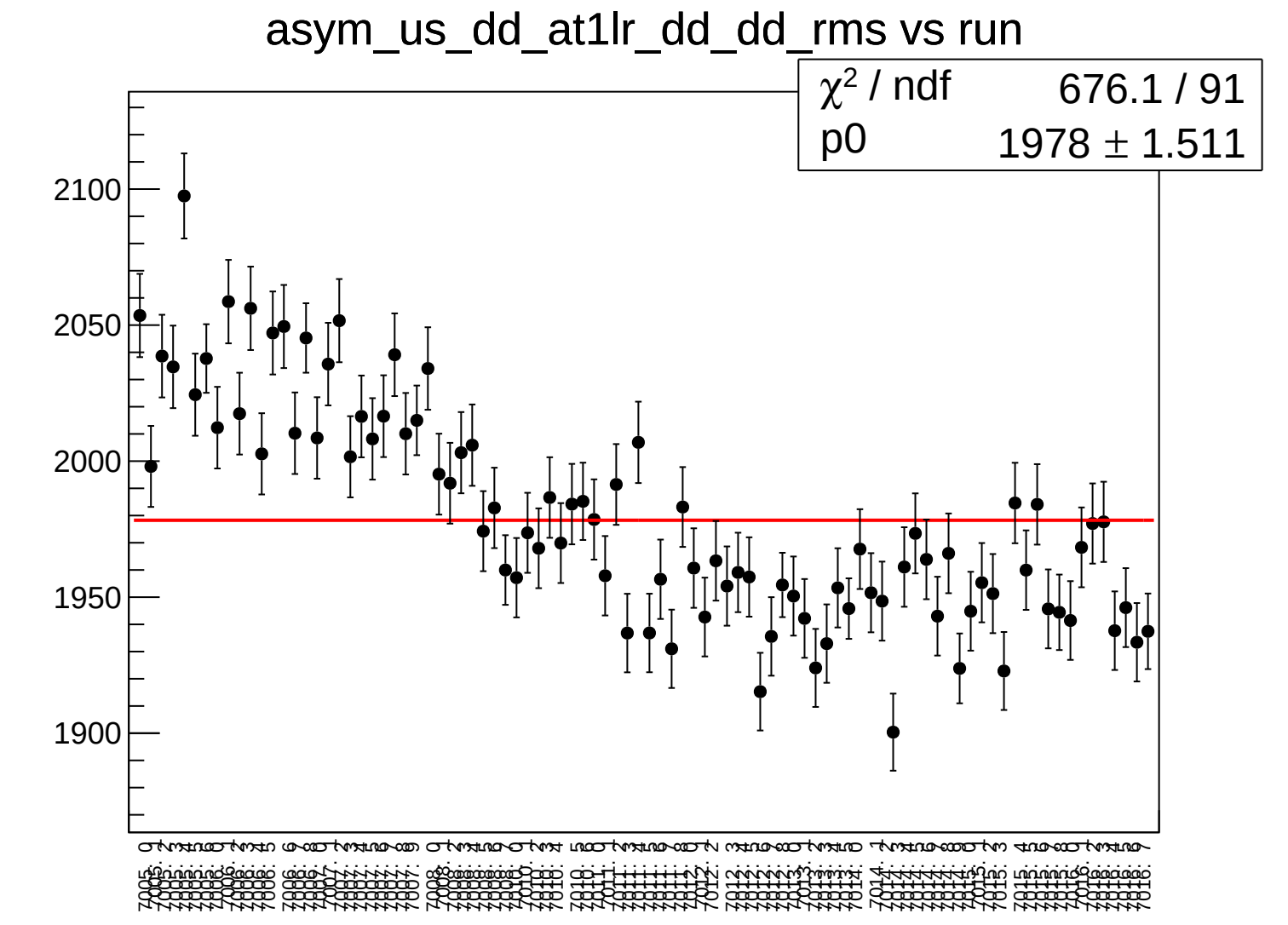

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.19 / 91
p0 −928.8 ± 1027
pull
Entries 92
Mean 3.371
Std Dev 70.73

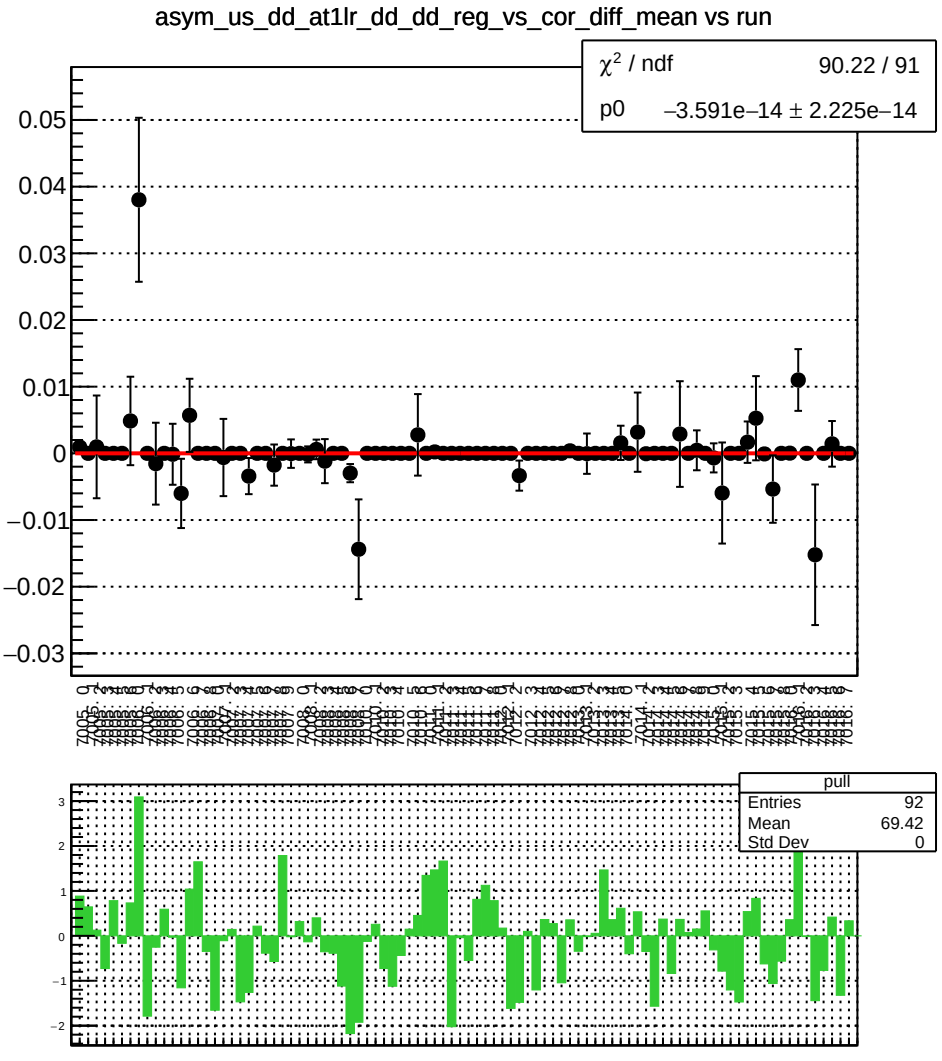

pull1D
Entries 92
Mean 0.01367
Std Dev 0.9218

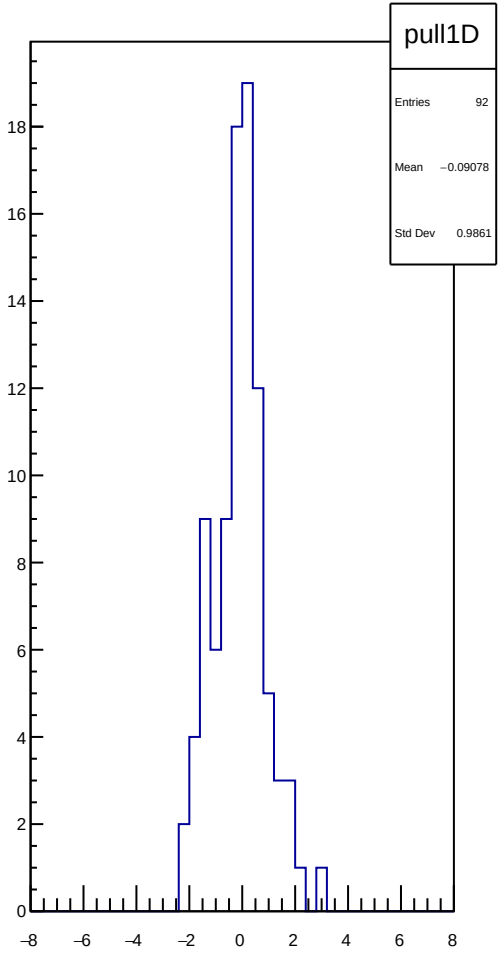

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5015 / 91
p0 949.8 ± 0.7263
1150
1100
1050
1000
950
900
850

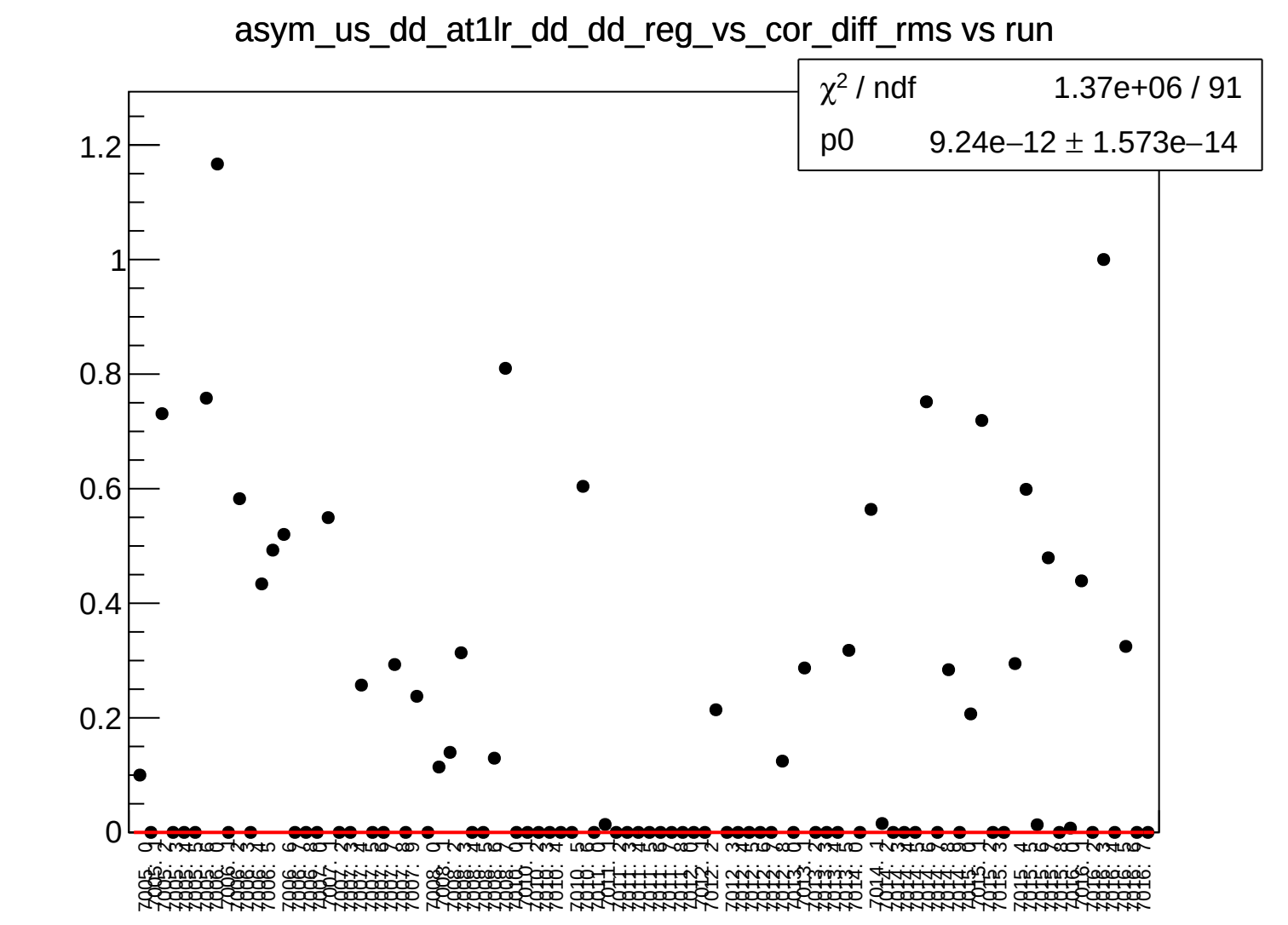

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 75.99 / 91
p0 −887.4 ± 2137
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −62.92
Std Dev 0
3
2
1
0
−1
−2

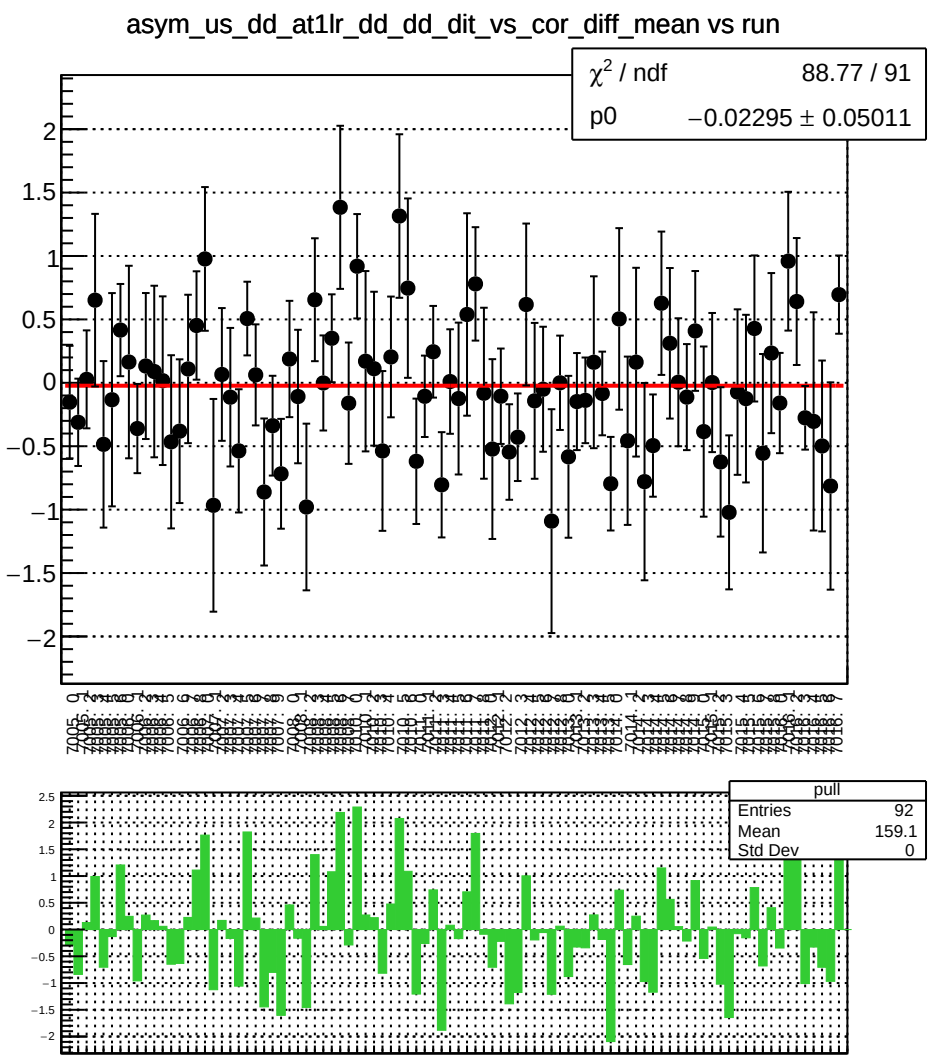

pull1D
Entries 92
Mean −0.01693
Std Dev 0.9087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

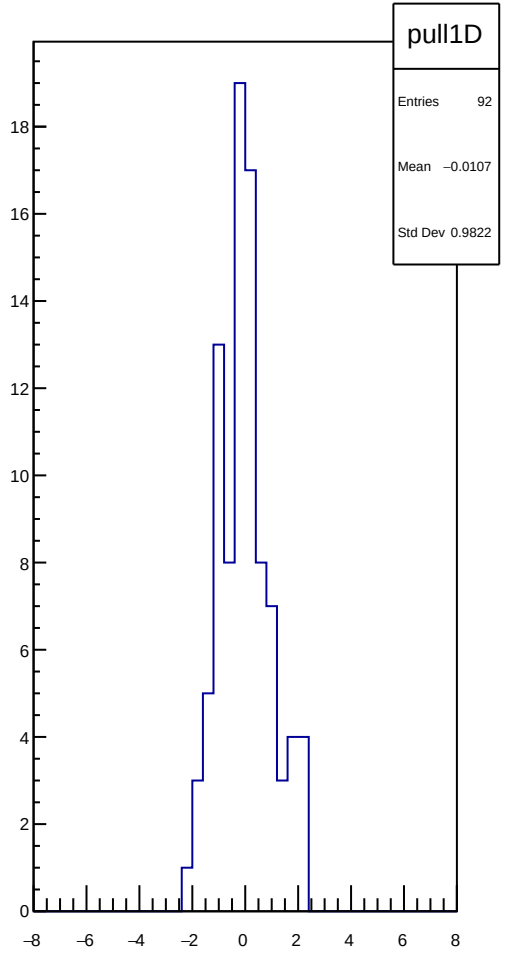

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 676.1 / 91
p0 1978 ± 1.511
2100
2050
2000
1950
1900

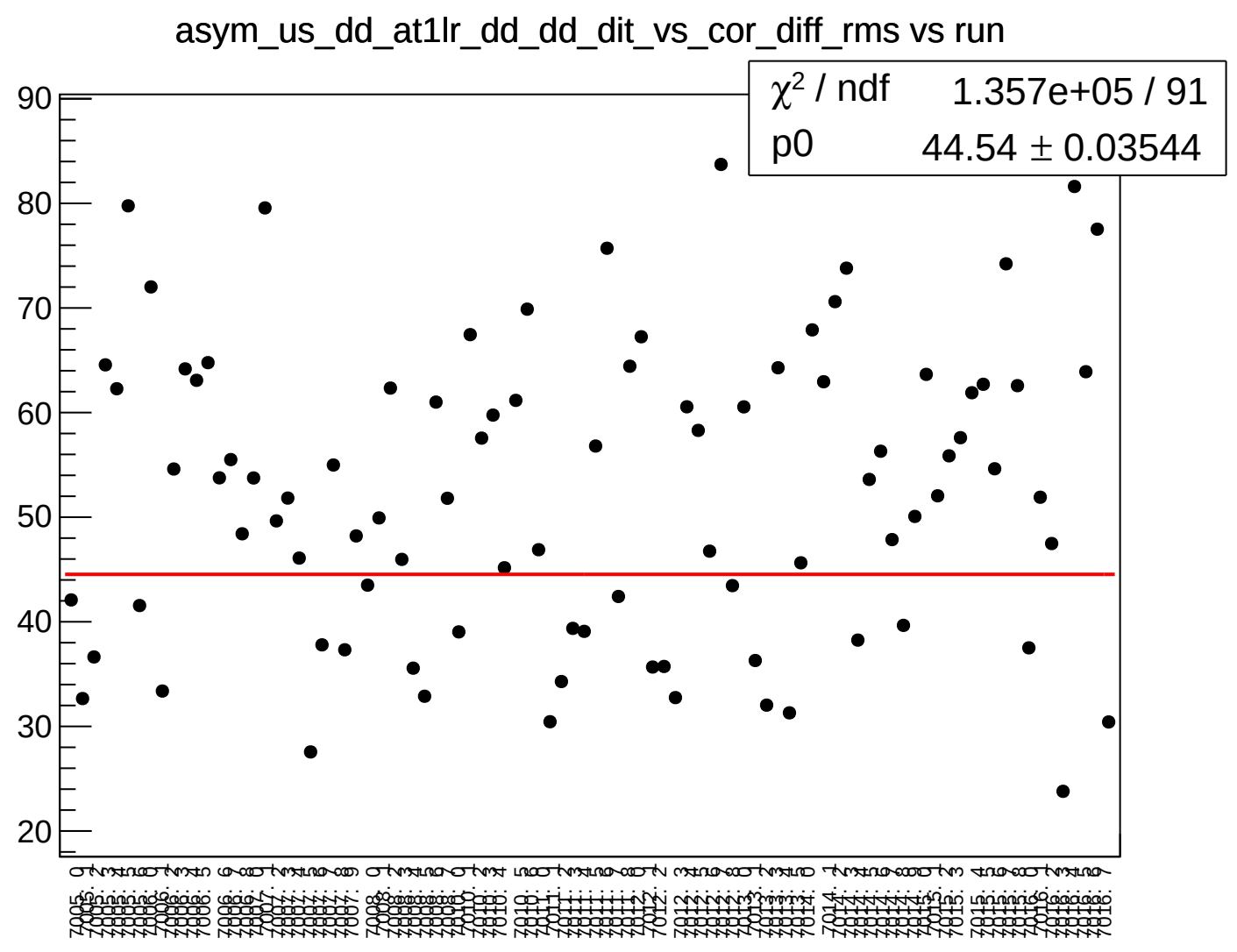

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.22 / 91
p0 −3.591e−14 ± 2.225e−14
pull
Entries 92
Mean 69.42
Std Dev 0

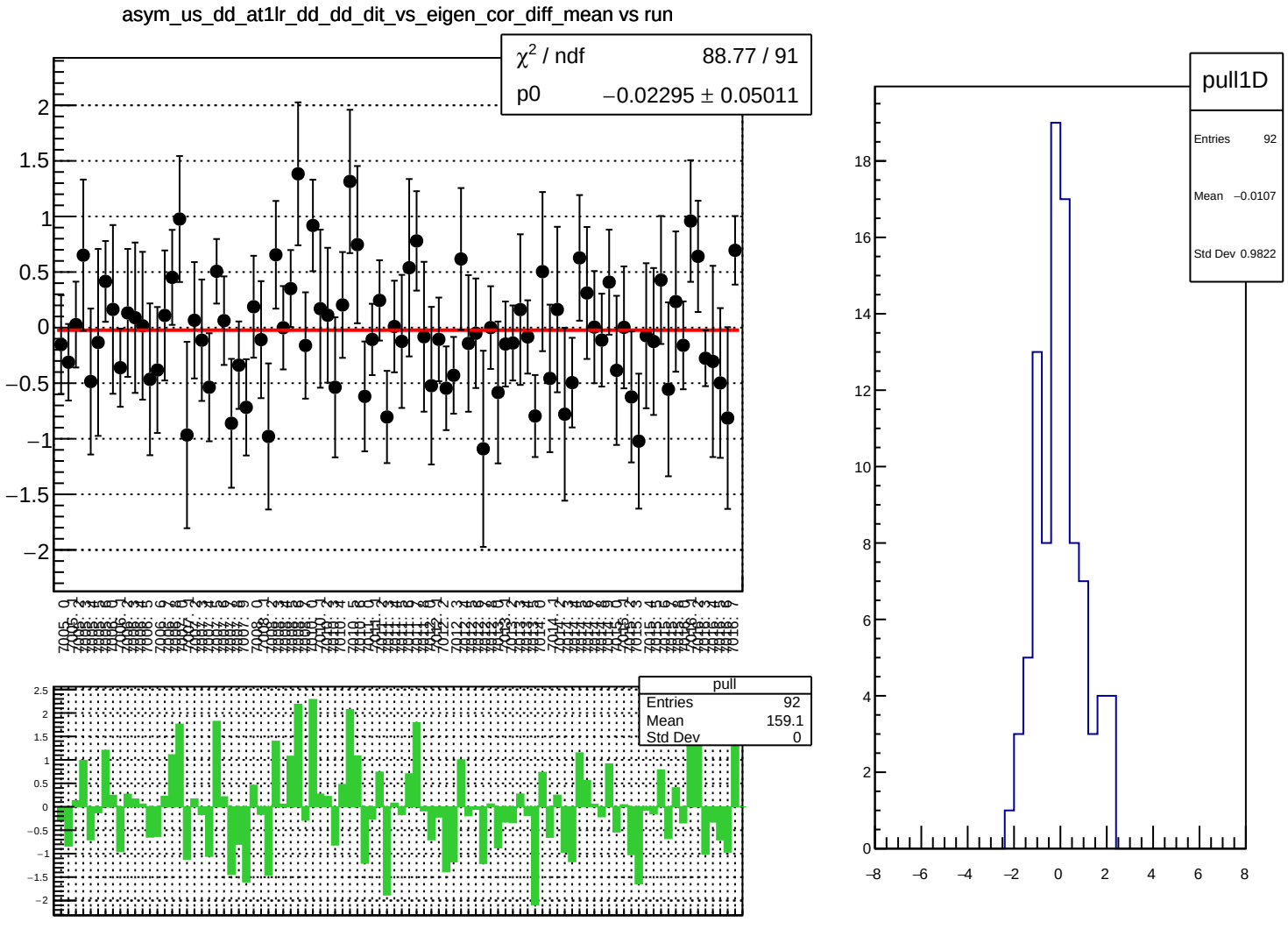

pull1D
Entries 92
Mean −0.09078
Std Dev 0.9861

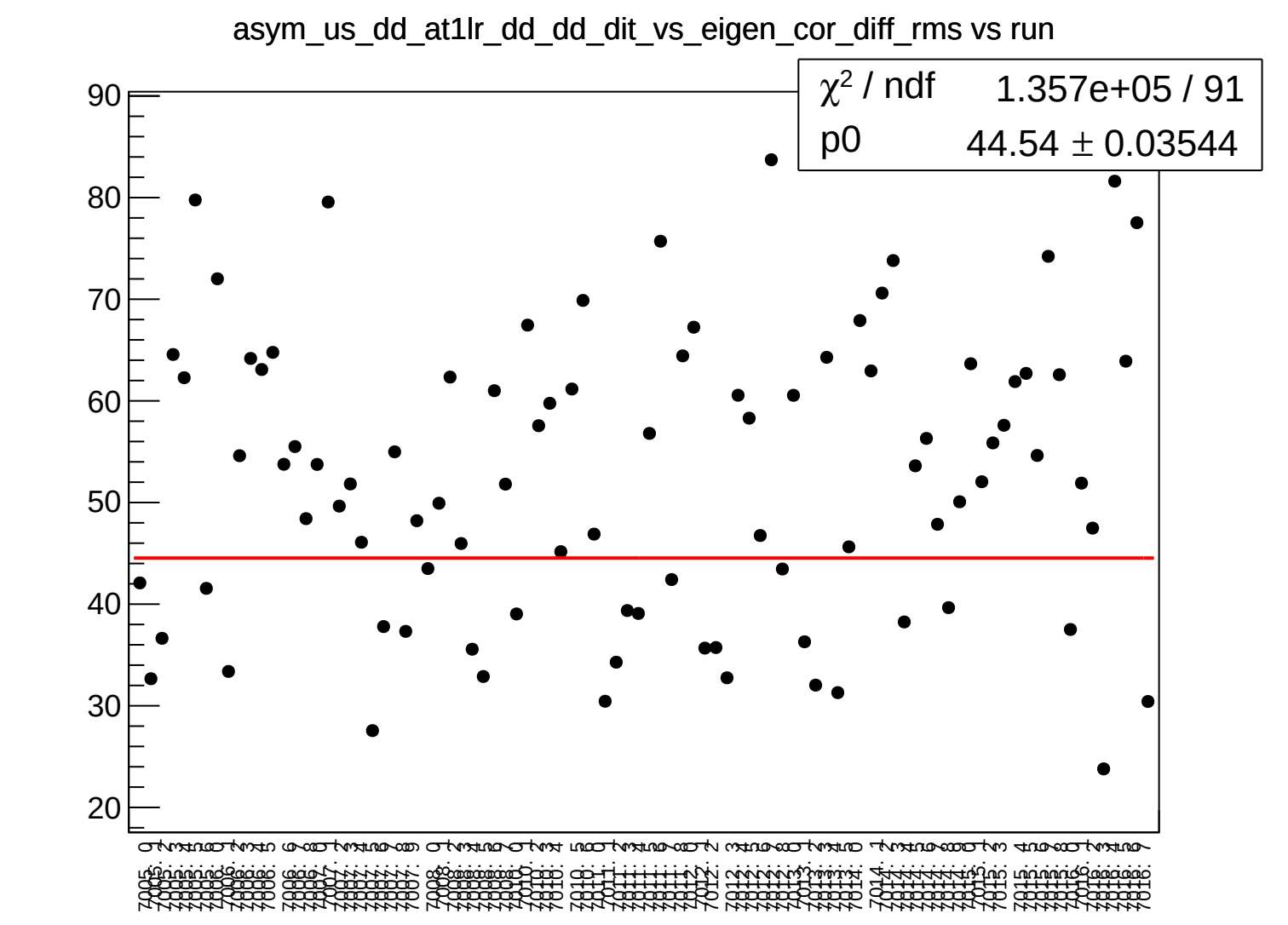

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.37e+06 / 91
p0 9.24e−12 ± 1.573e−14
1.2
1
0.8
0.6
0.4
0.2
0

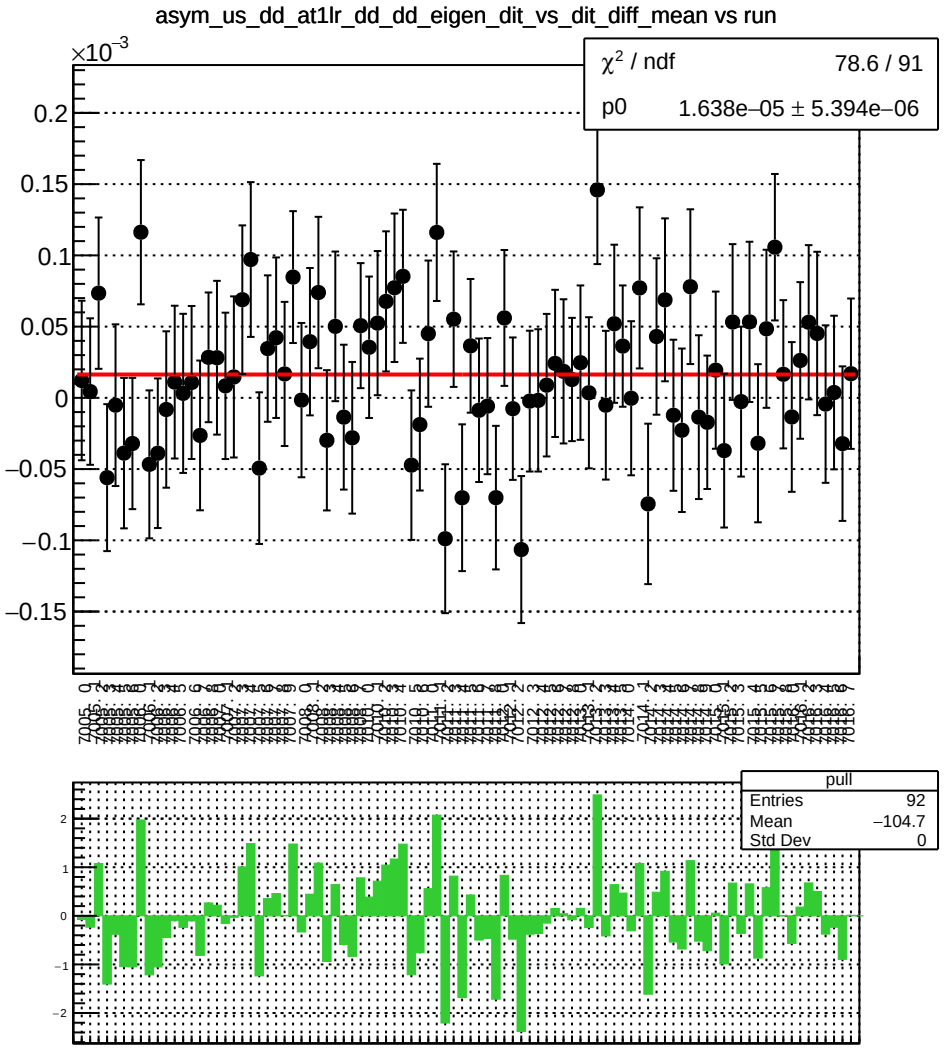

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.77 / 91
p0 −0.02295 ± 0.05011
pull
Entries 92
Mean 159.1
Std Dev 0

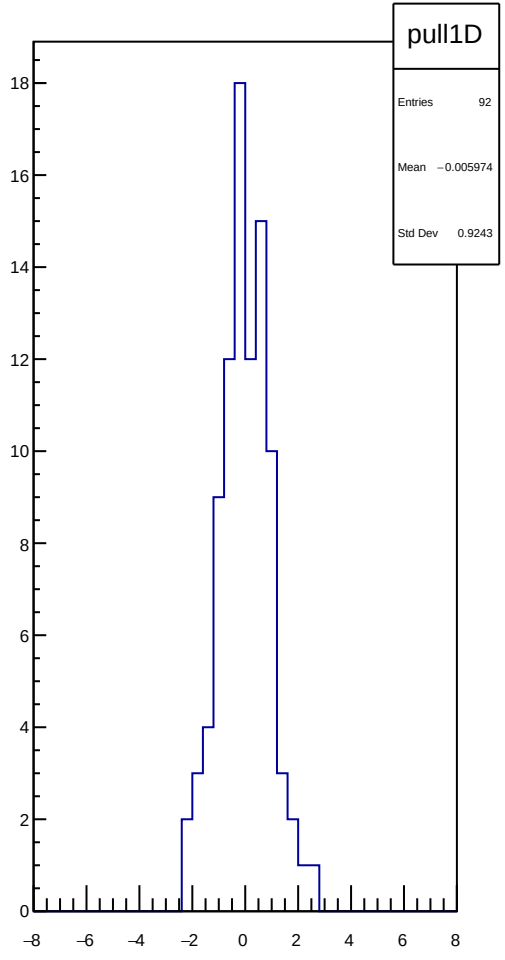

pull1D
Entries 92
Mean −0.0107
Std Dev 0.9822

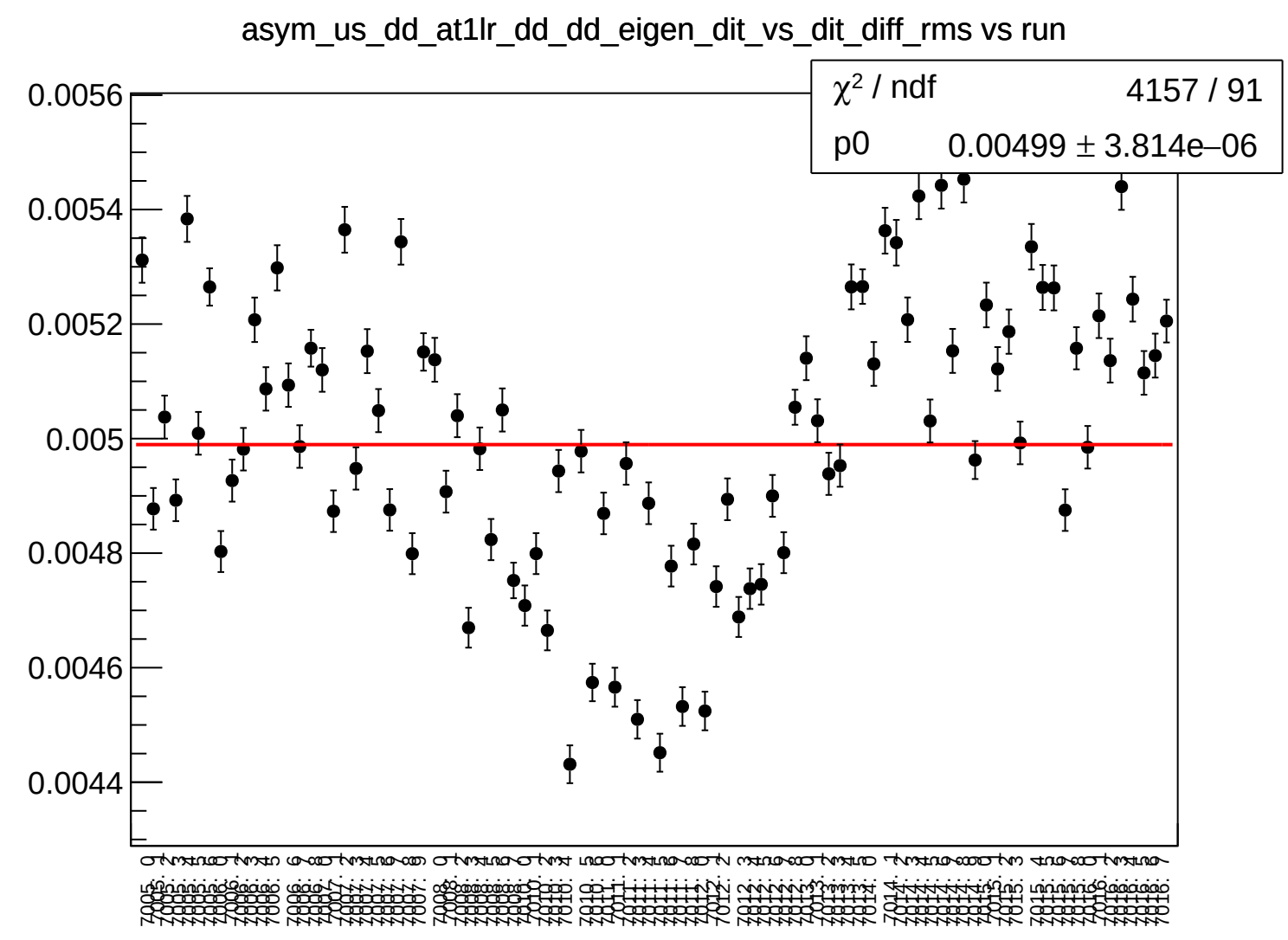

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 91
p0 44.54 ± 0.03544
90
80
70
60
50
40
30
20

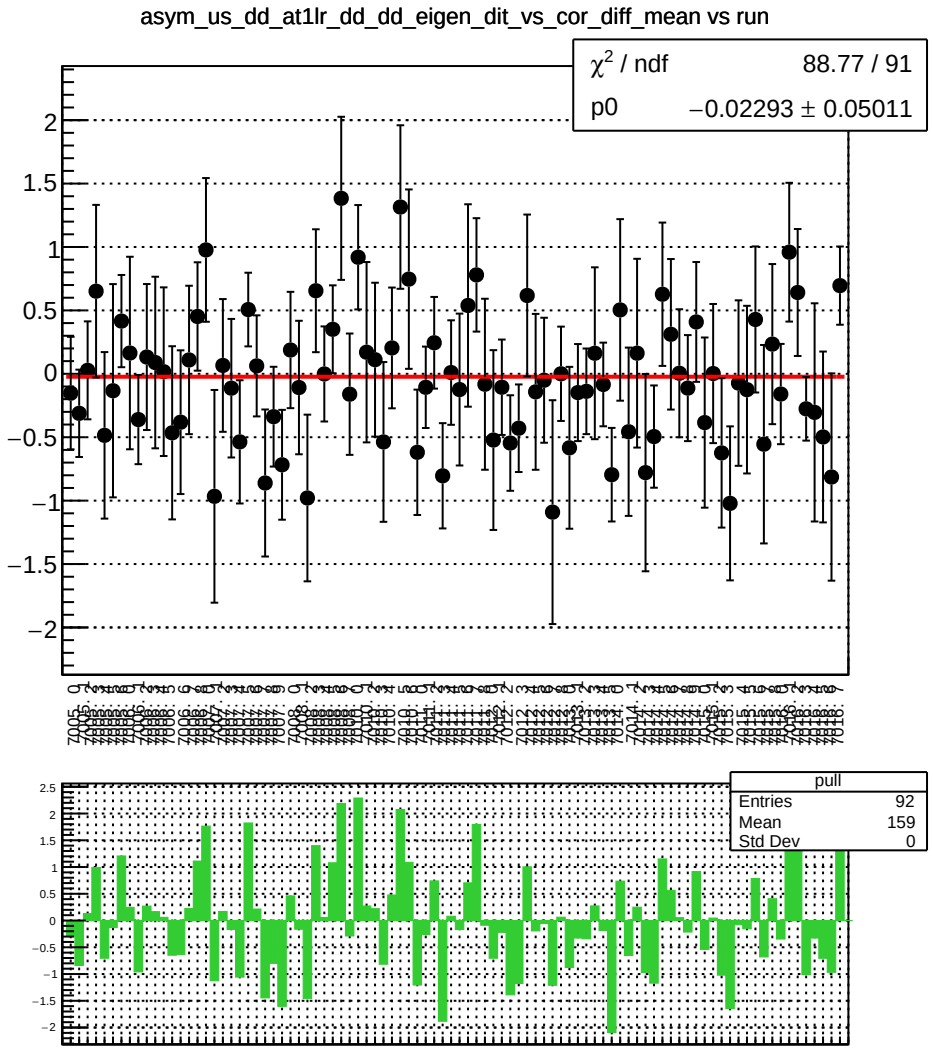

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.77 / 91
p0 −0.02295 ± 0.05011
pull
Entries 92
Mean 159.1
Std Dev 0
pull1D
Entries 92
Mean −0.0107
Std Dev 0.9822

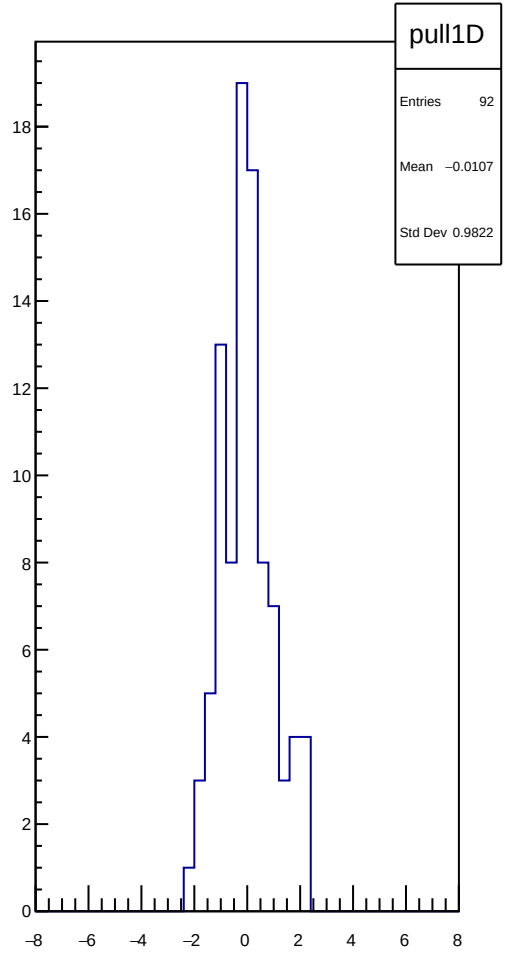

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 91
p0 44.54 ± 0.03544
90
80
70
60
50
40
30
20

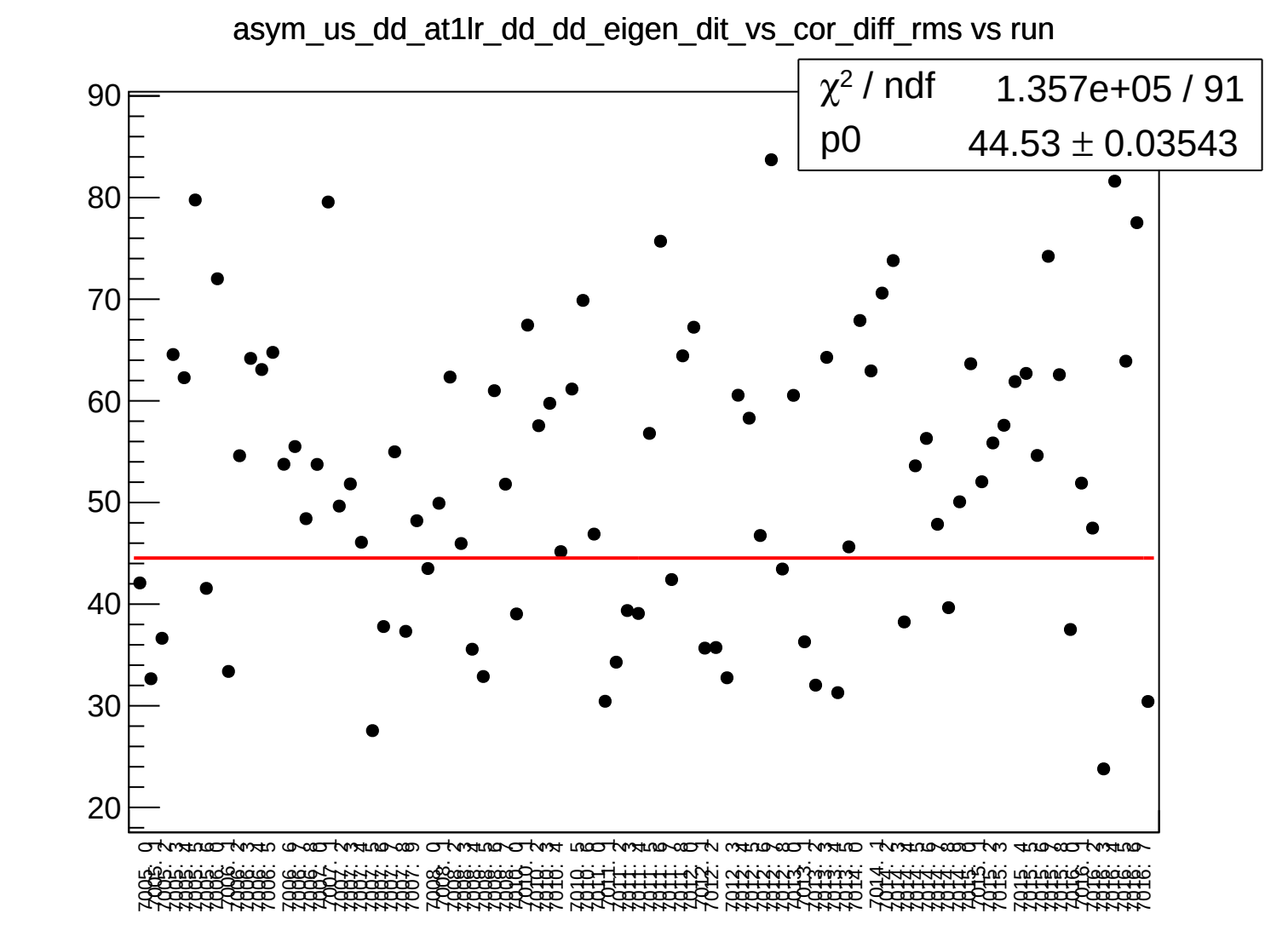

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.6 / 91
p0 1.638e−05 ± 5.394e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −104.7
Std Dev 0
2
1
0
−1
−2

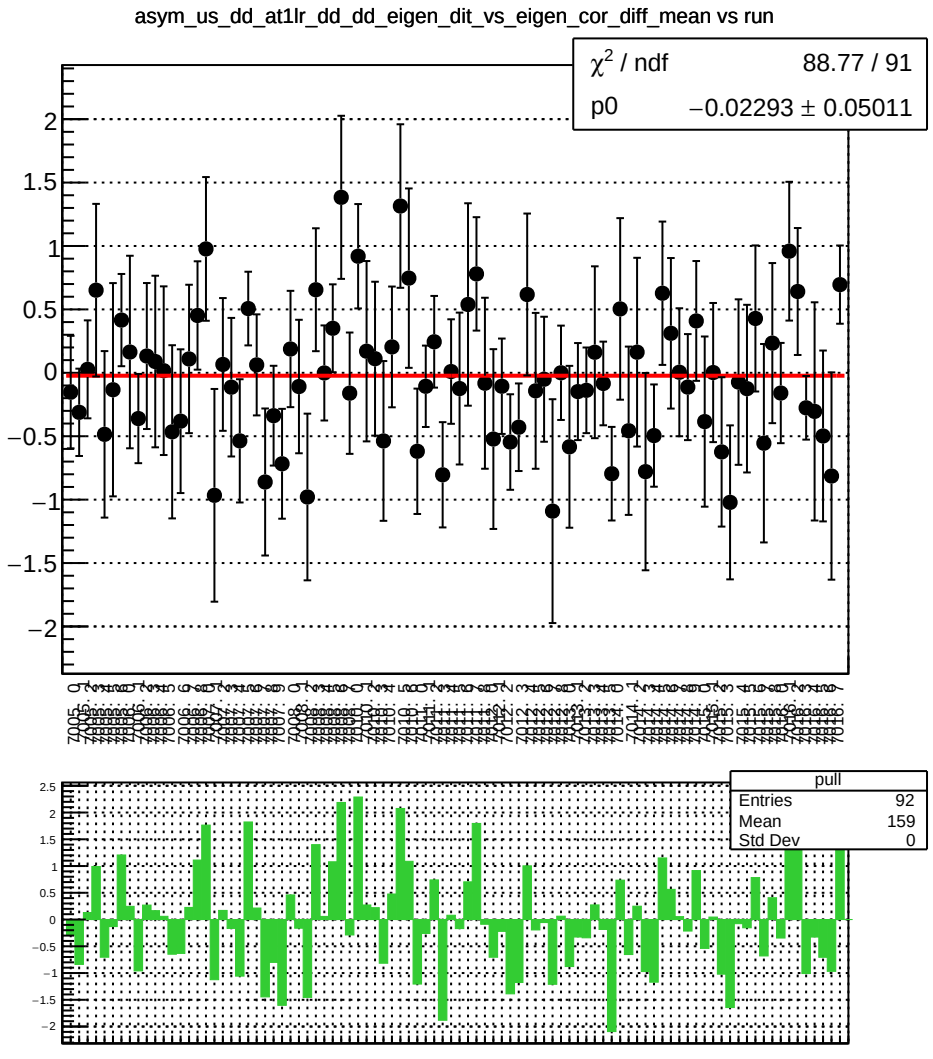

pull1D
Entries 92
Mean −0.005974
Std Dev 0.9243
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

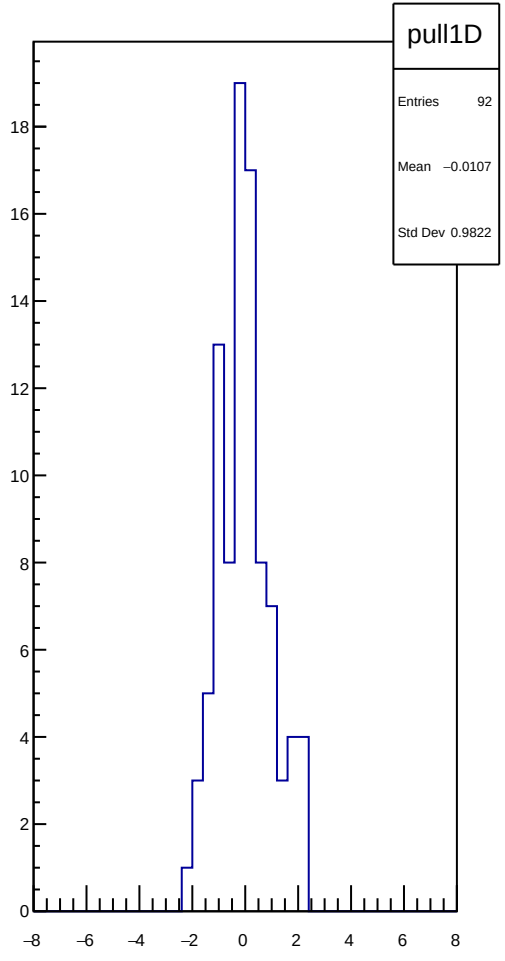

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4157 / 91
p0 0.00499 ± 3.814e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

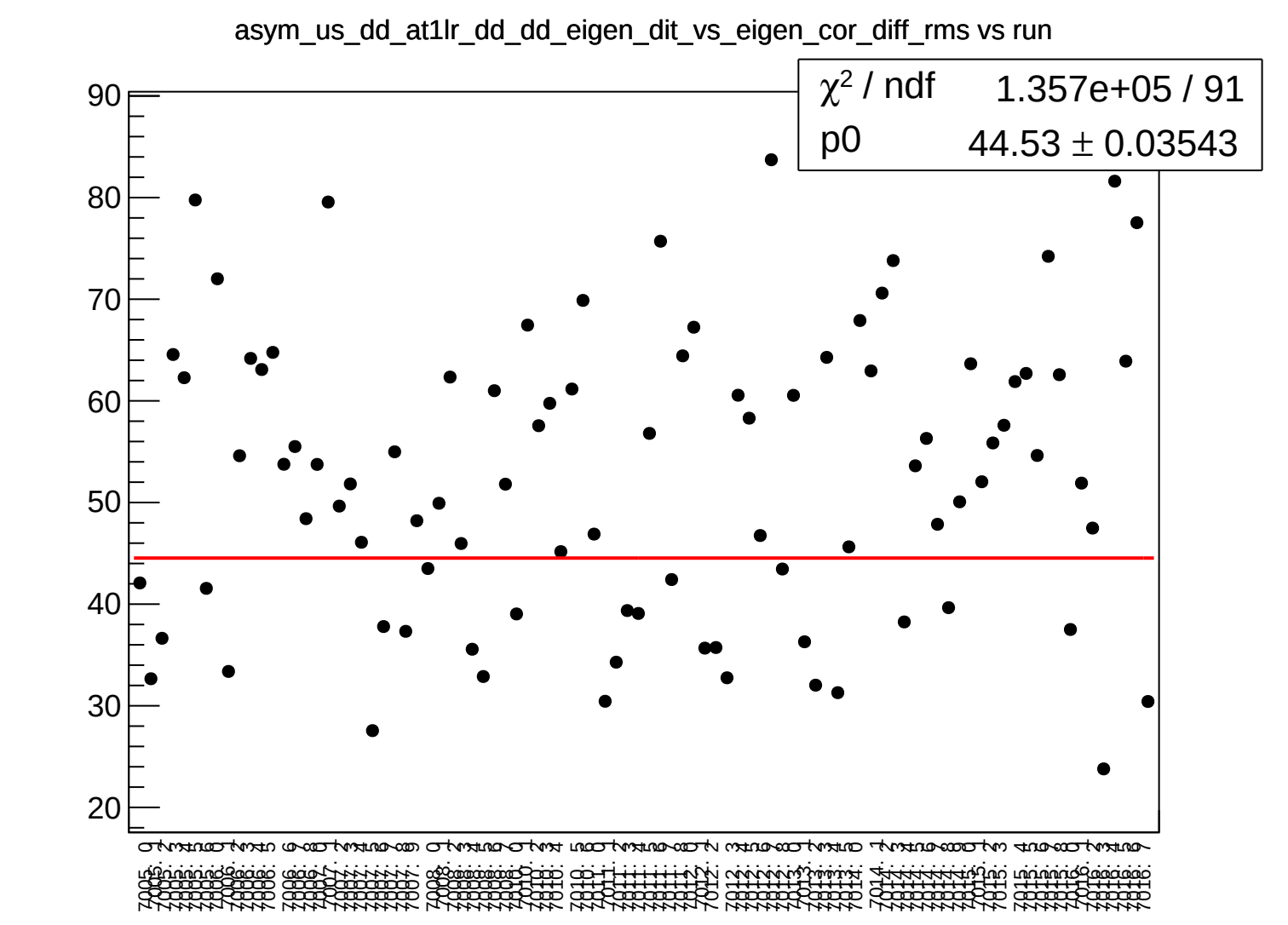

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
$\chi^2$ / ndf 88.77 / 91
p0 −0.02293 ± 0.05011
pull
Entries 92
Mean 159
Std Dev 0

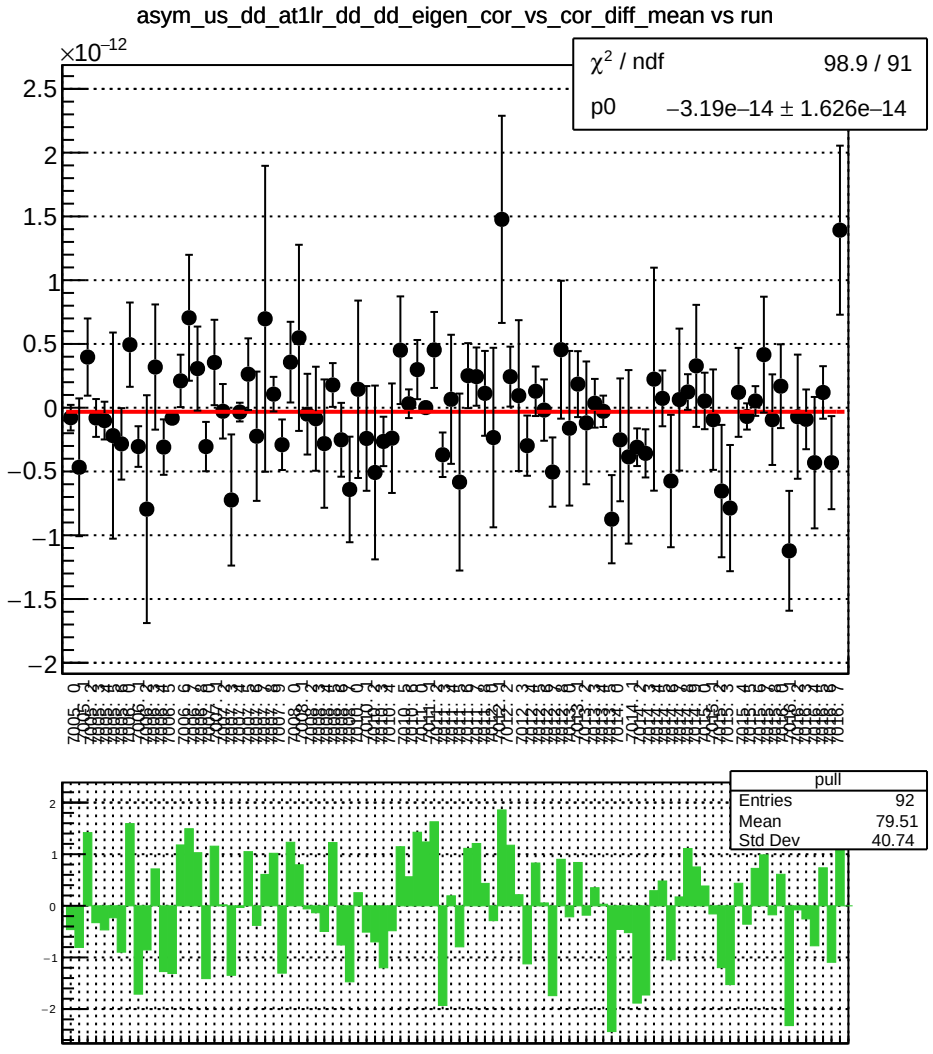

pull1D
Entries 92
Mean −0.0107
Std Dev 0.9822

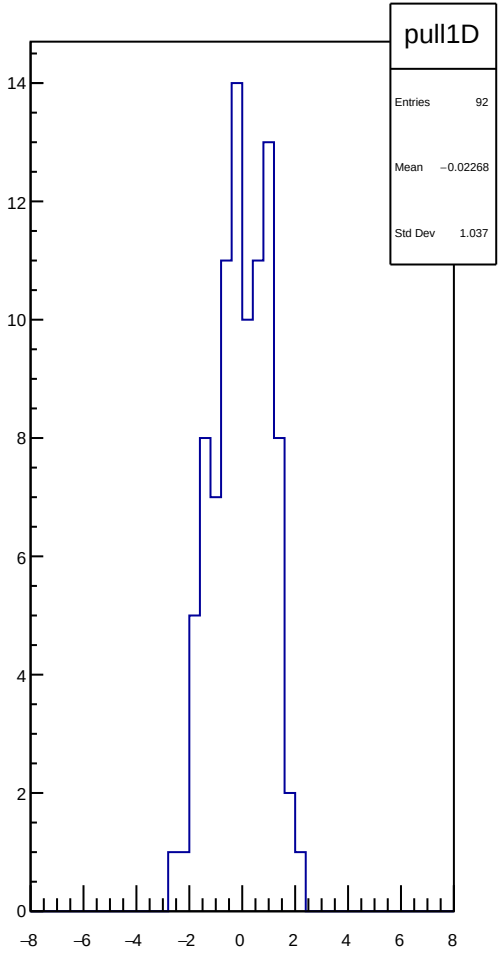

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 91
p0 44.53 ± 0.03543
90
80
70
60
50
40
30
20

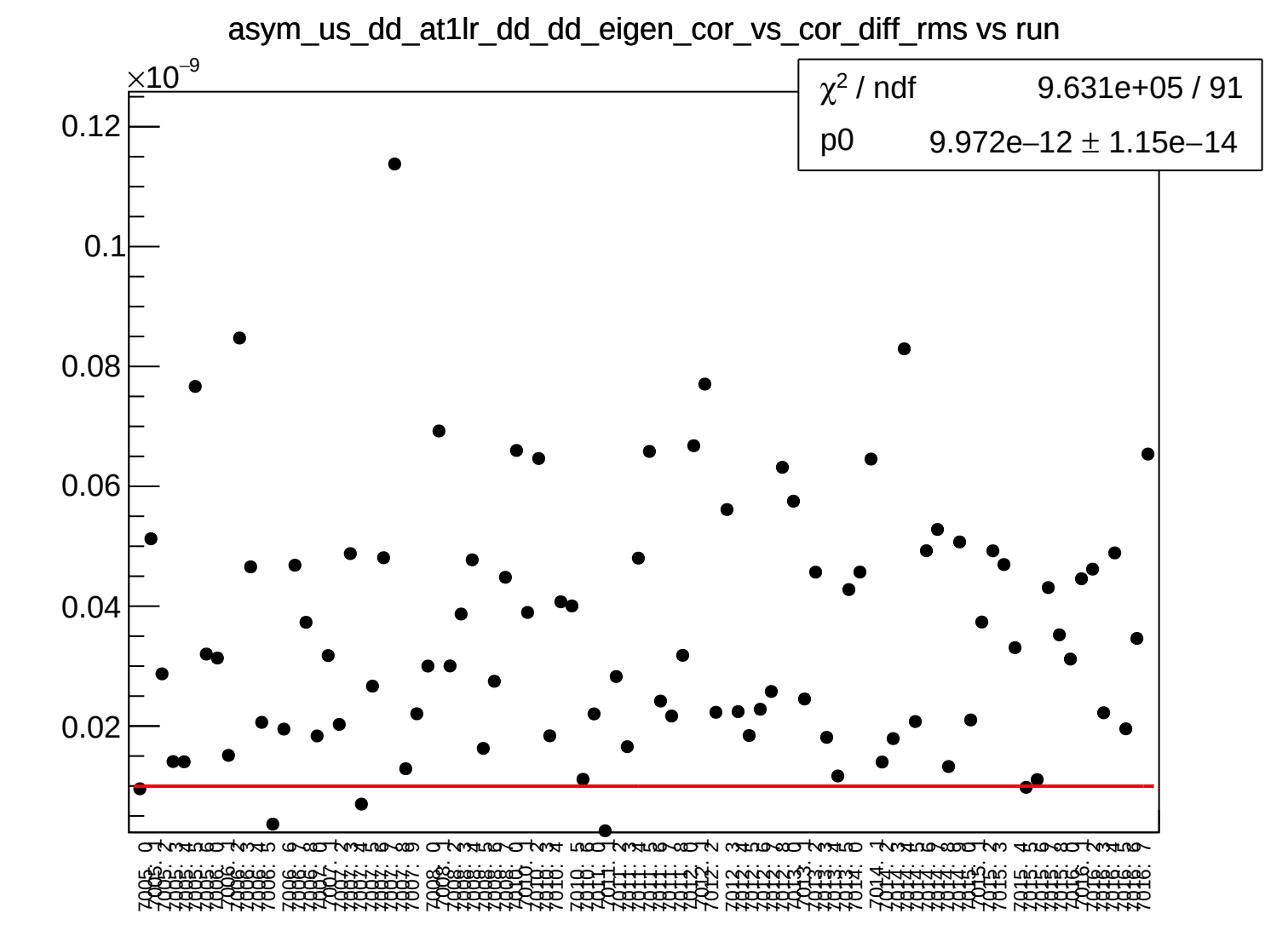

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.77 / 91
p0 −0.02293 ± 0.05011
pull
Entries 92
Mean 159
Std Dev 0

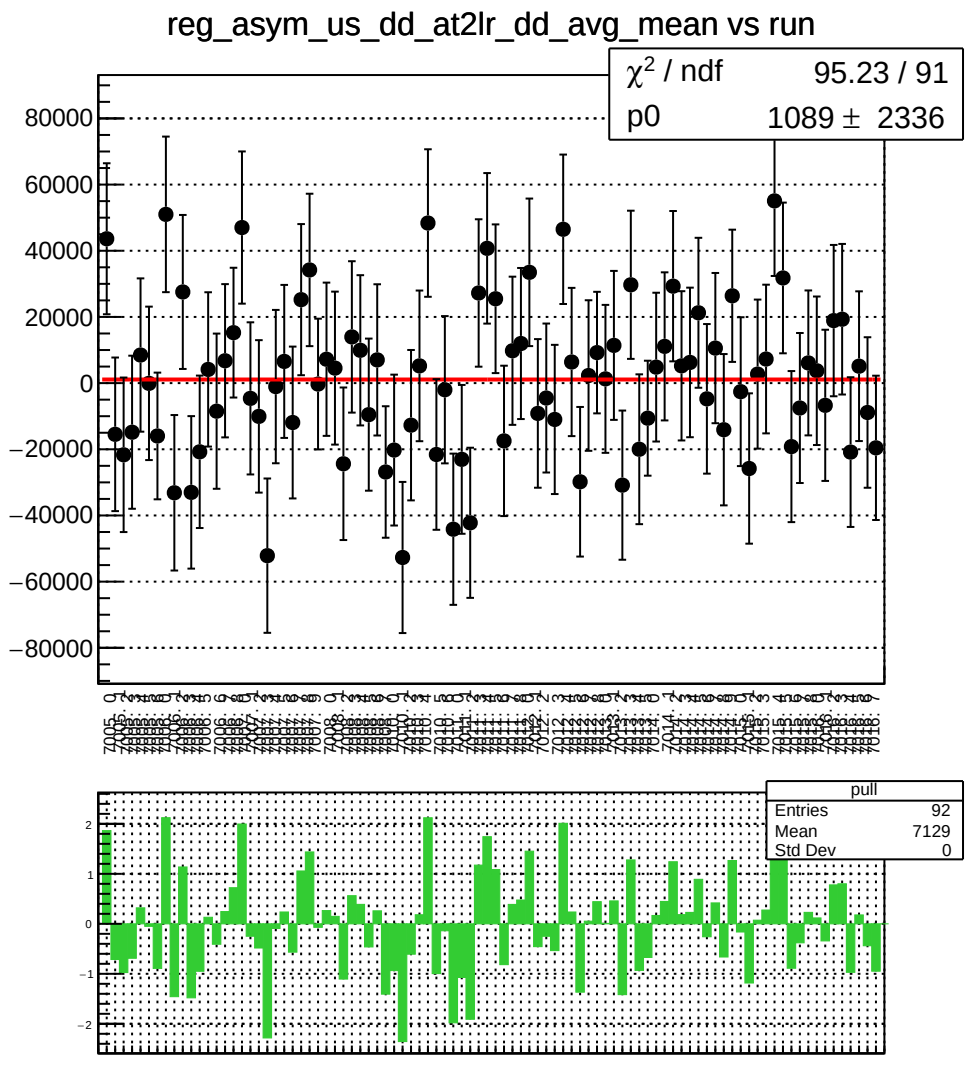

pull1D
Entries 92
Mean −0.0107
Std Dev 0.9822

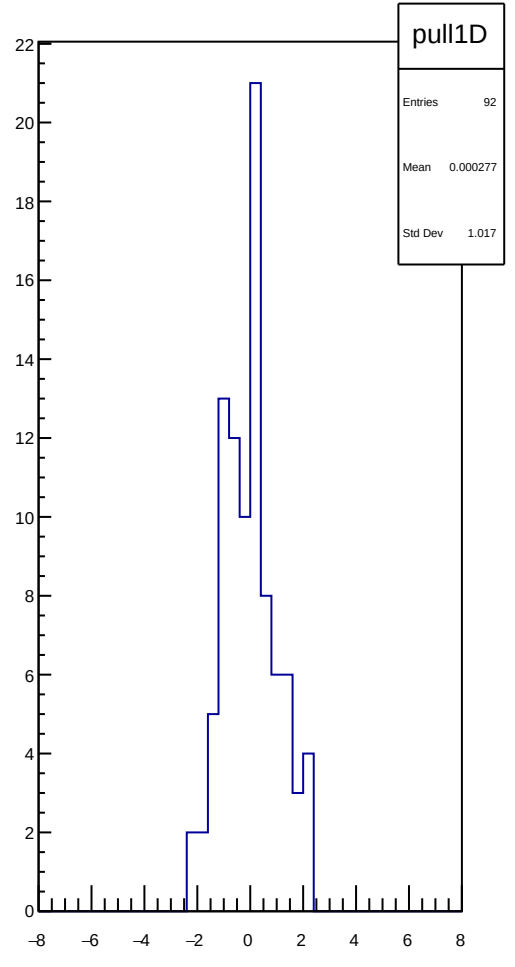

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.357e+05 / 91
p0 44.53 ± 0.03543
90
80
70
60
50
40
30
20

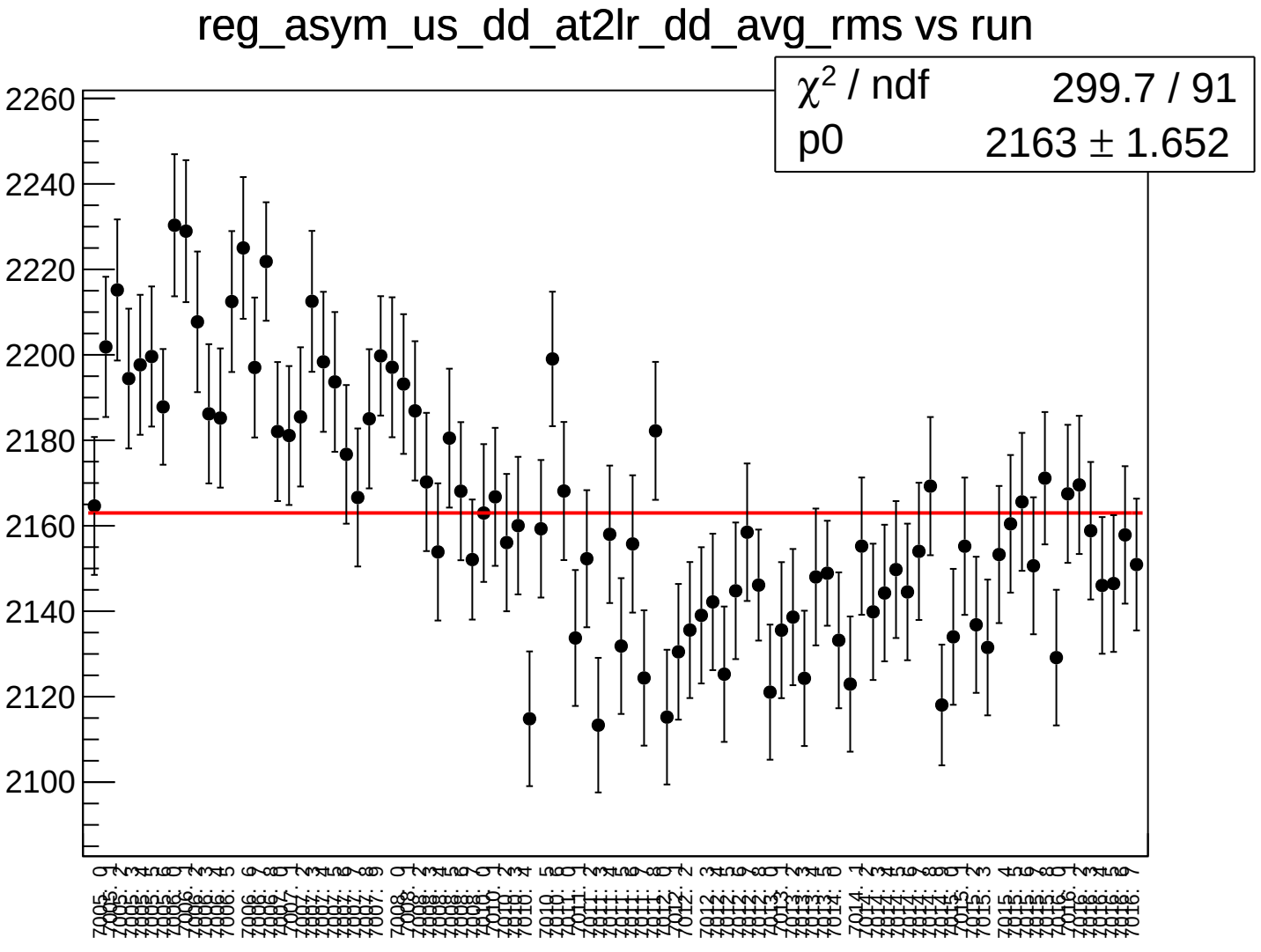

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.9 / 91
p0 −3.19e−14 ± 1.626e−14
pull
Entries 92
Mean 79.51
Std Dev 40.74

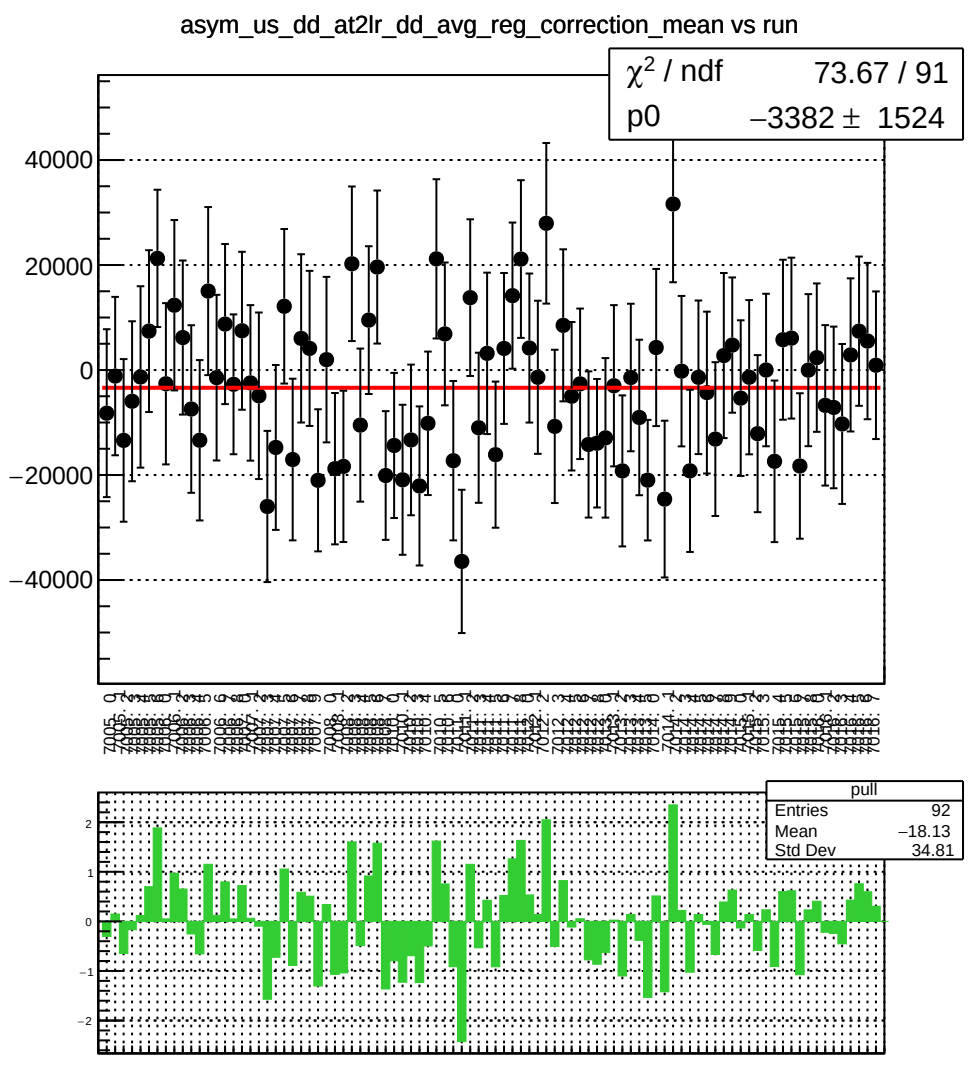

pull1D
Entries 92
Mean −0.02268
Std Dev 1.037

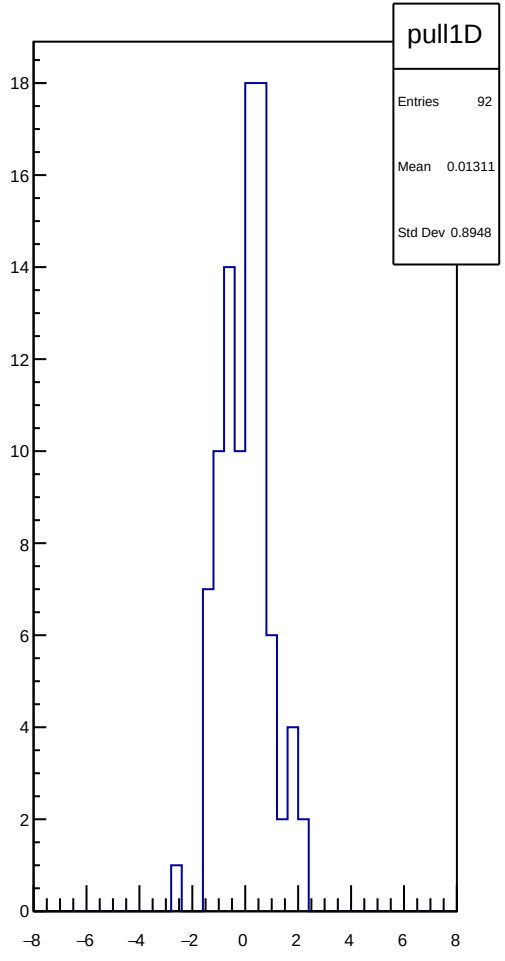

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 9.631e+05 / 91
p0 9.972e−12 ± 1.15e−14

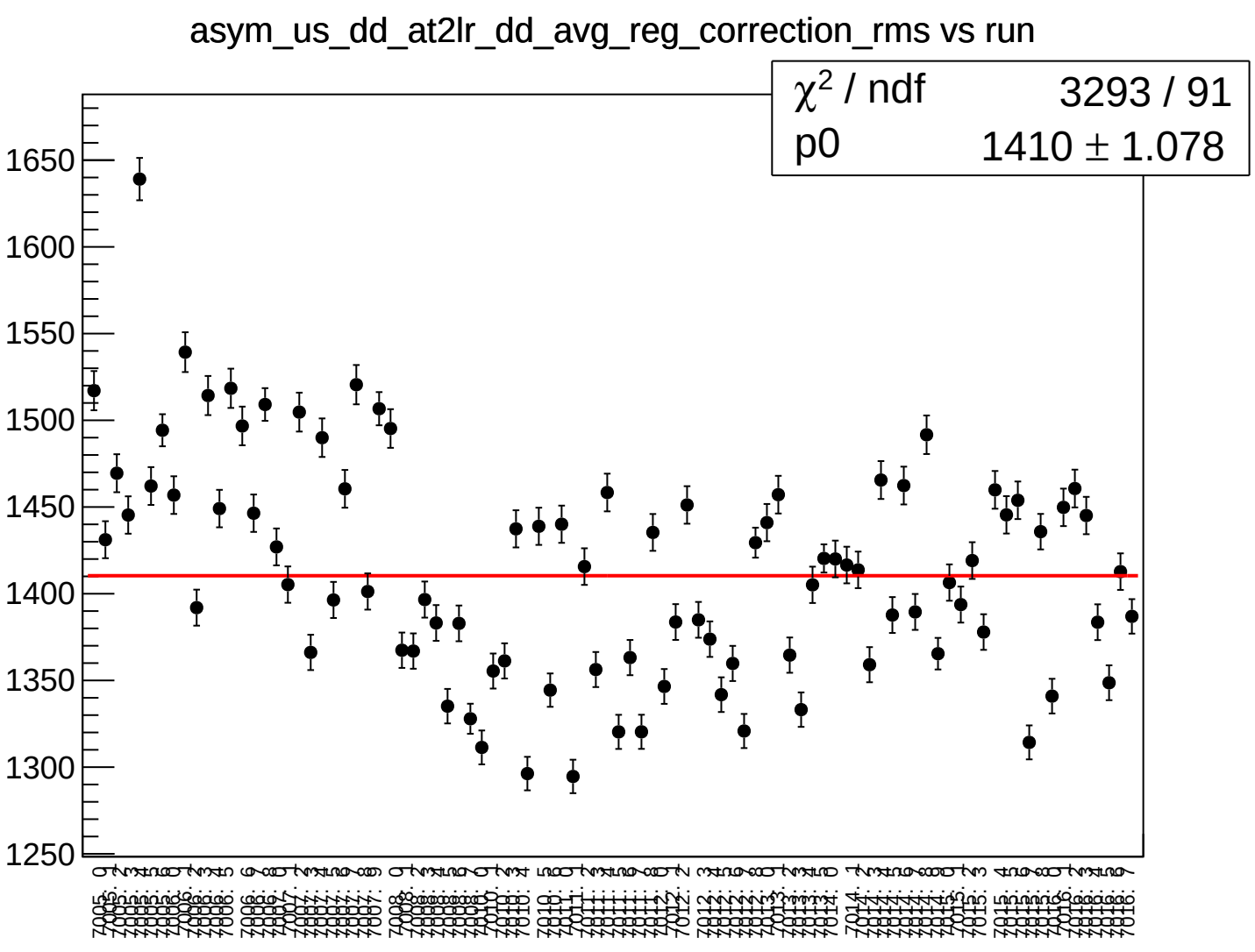

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 95.23 / 91
p0 1089 ± 2336
pull
Entries 92
Mean 7129
Std Dev 0

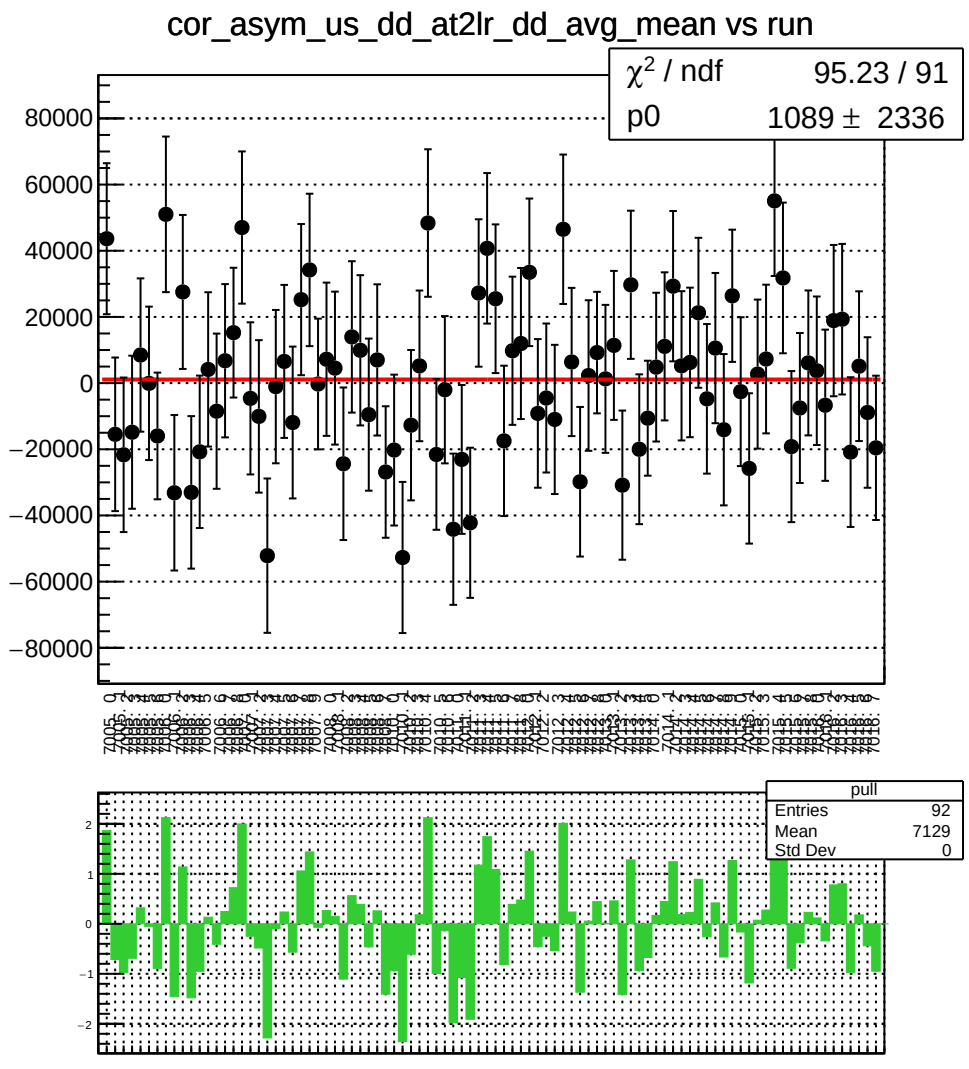

pull1D
Entries 92
Mean 0.000277
Std Dev 1.017

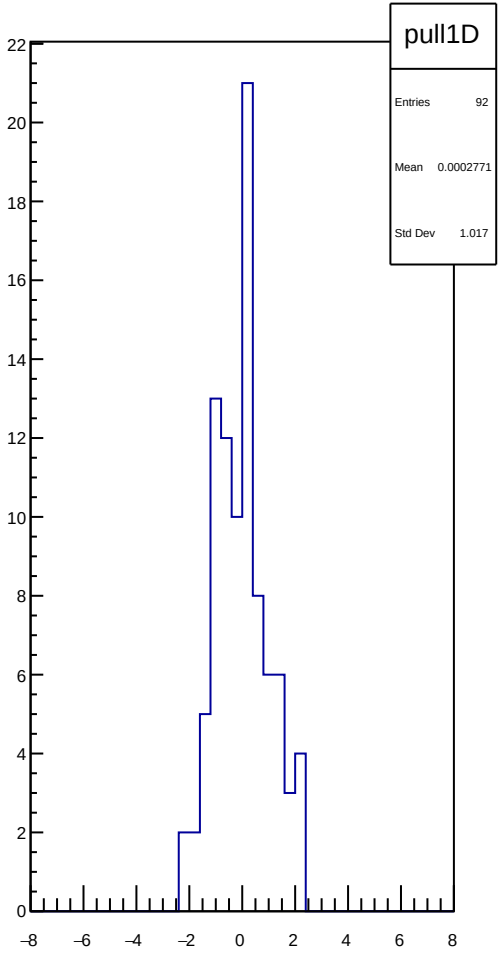

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 299.7 / 91
p0 2163 ± 1.652
2260
2240
2220
2200
2180
2160
2140
2120
2100

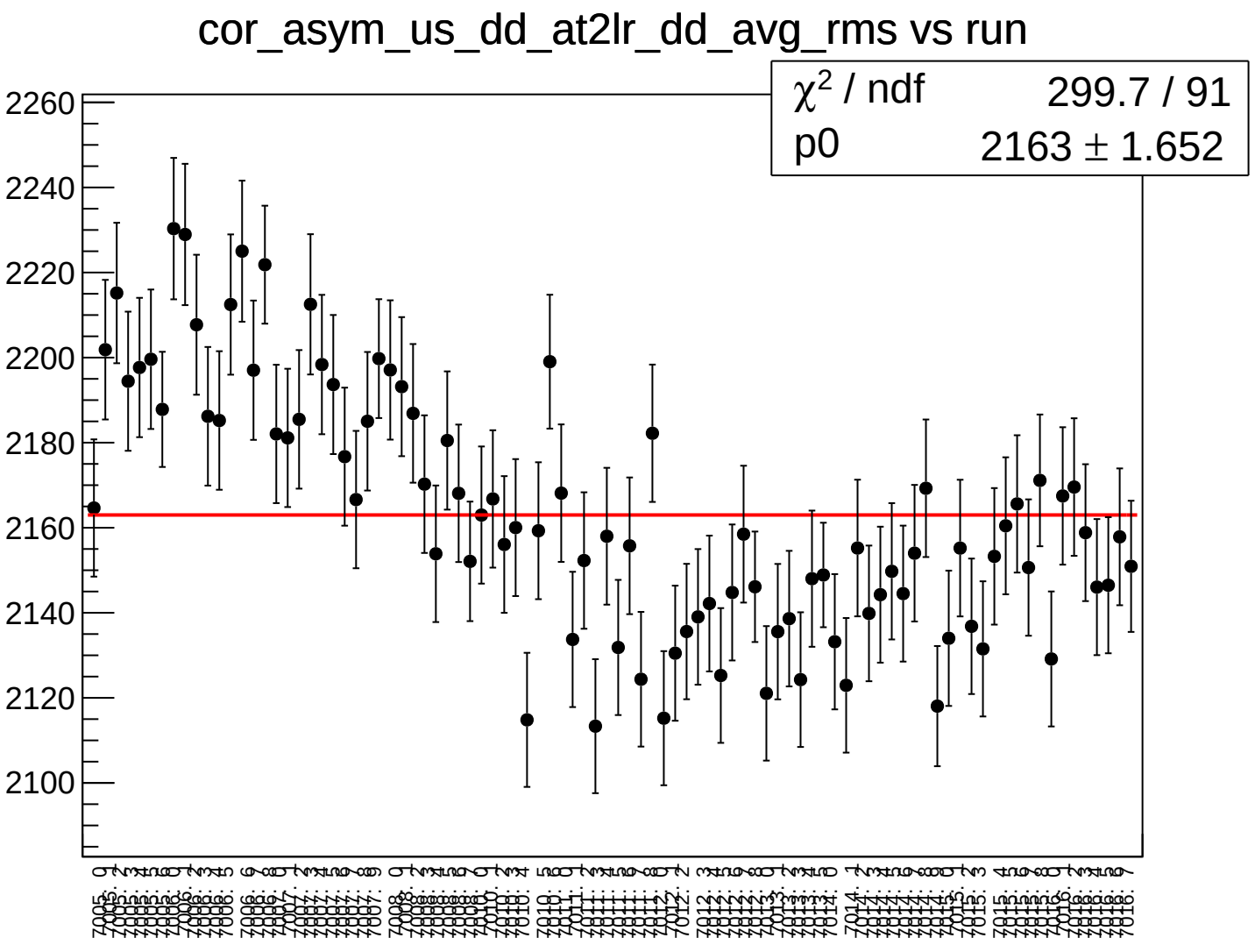

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 73.67 / 91
p0 −3382 ± 1524
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −18.13
Std Dev 34.81
2
1
0
−1
−2

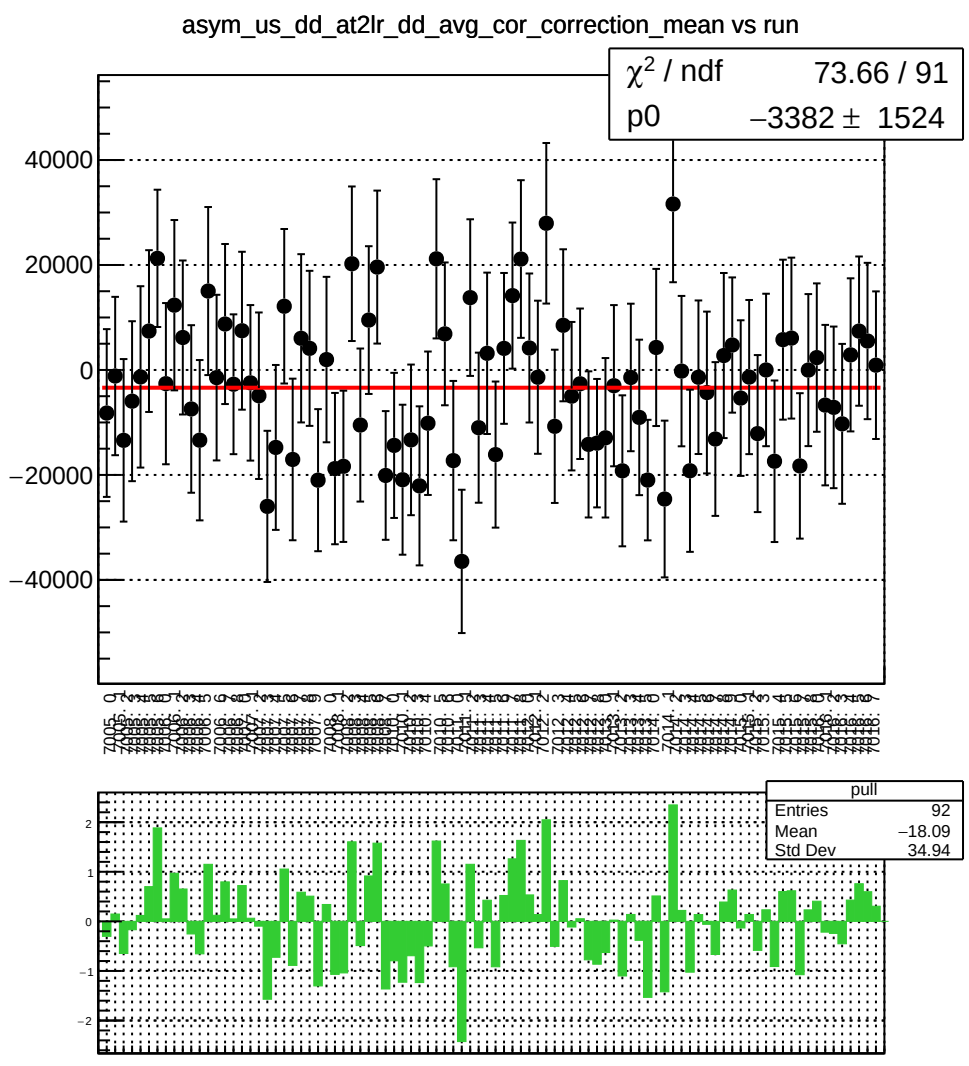

pull1D
Entries 92
Mean 0.01311
Std Dev 0.8948
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

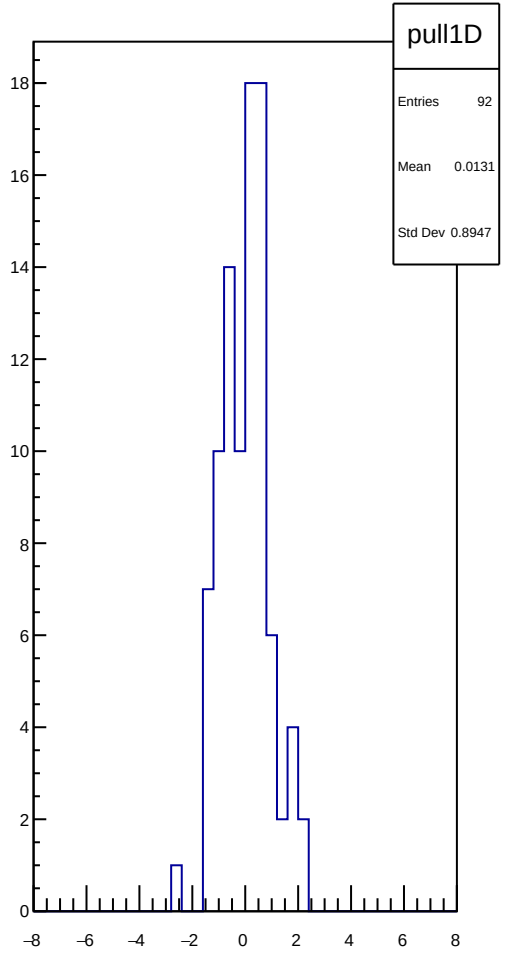

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3293 / 91
p0 1410 ± 1.078
1650
1600
1550
1500
1450
1400
1350
1300
1250

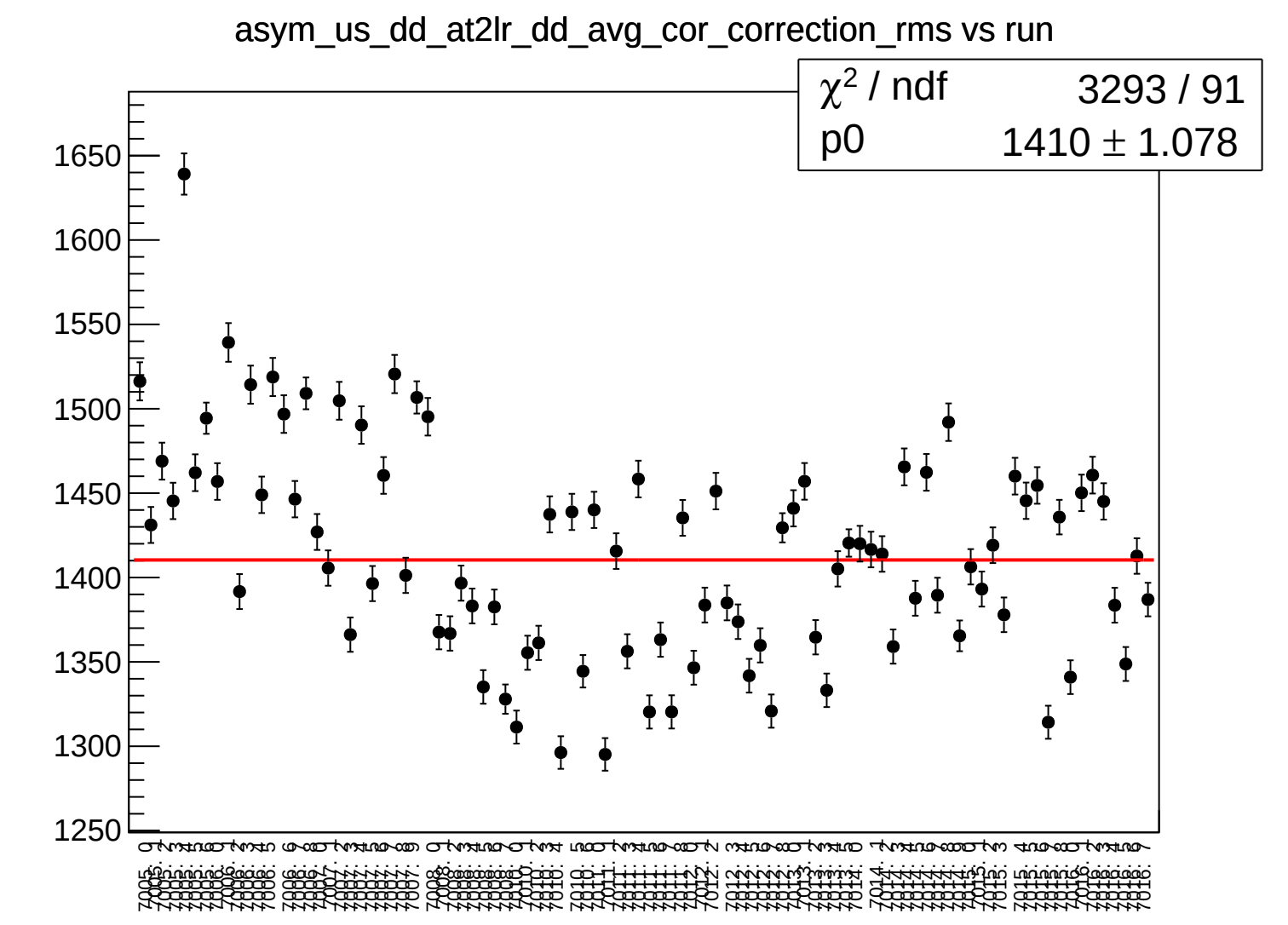

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 95.23 / 91
p0 1089 ± 2336
pull
Entries 92
Mean 7129
Std Dev 0

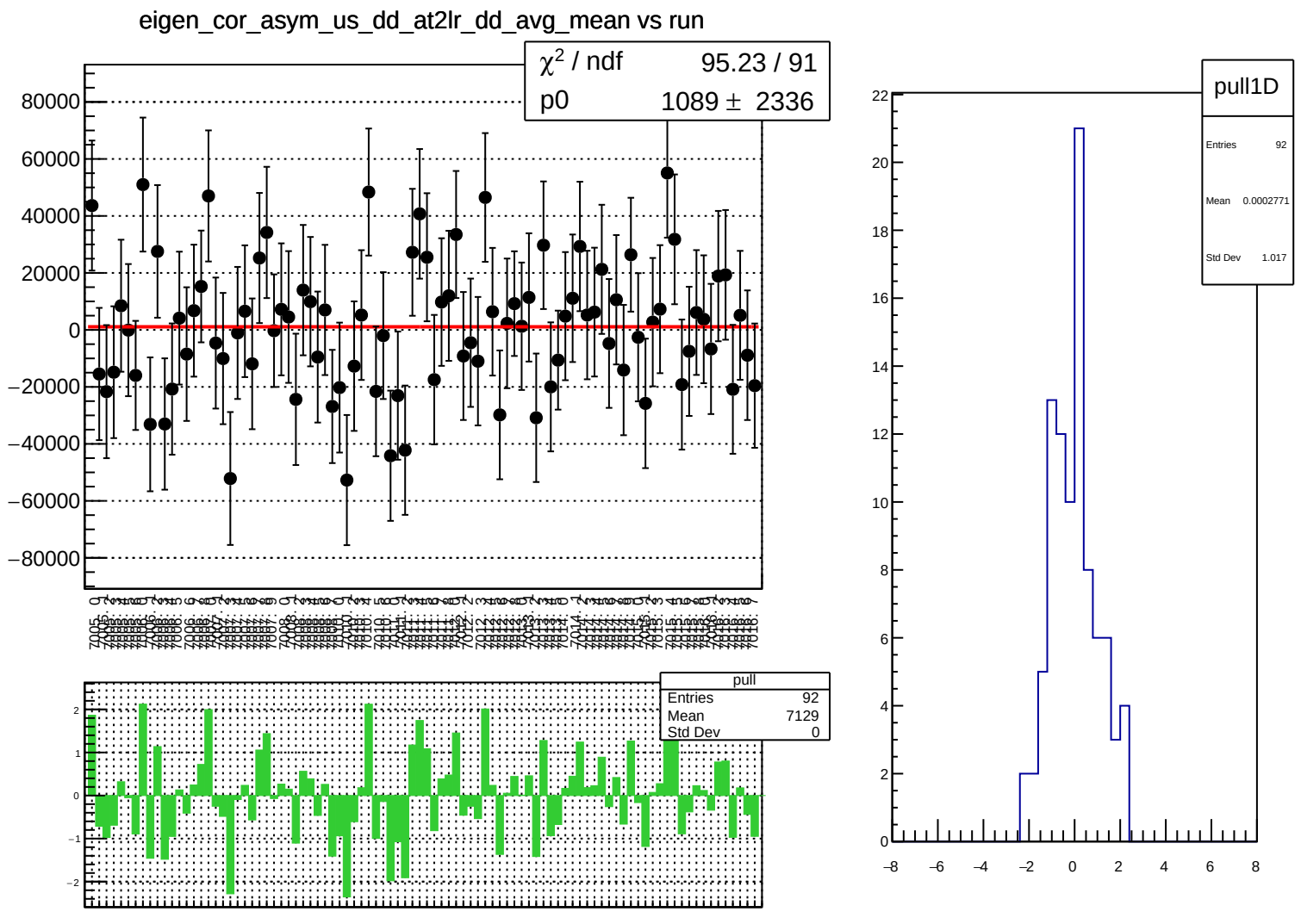

pull1D
Entries 92
Mean 0.0002771
Std Dev 1.017

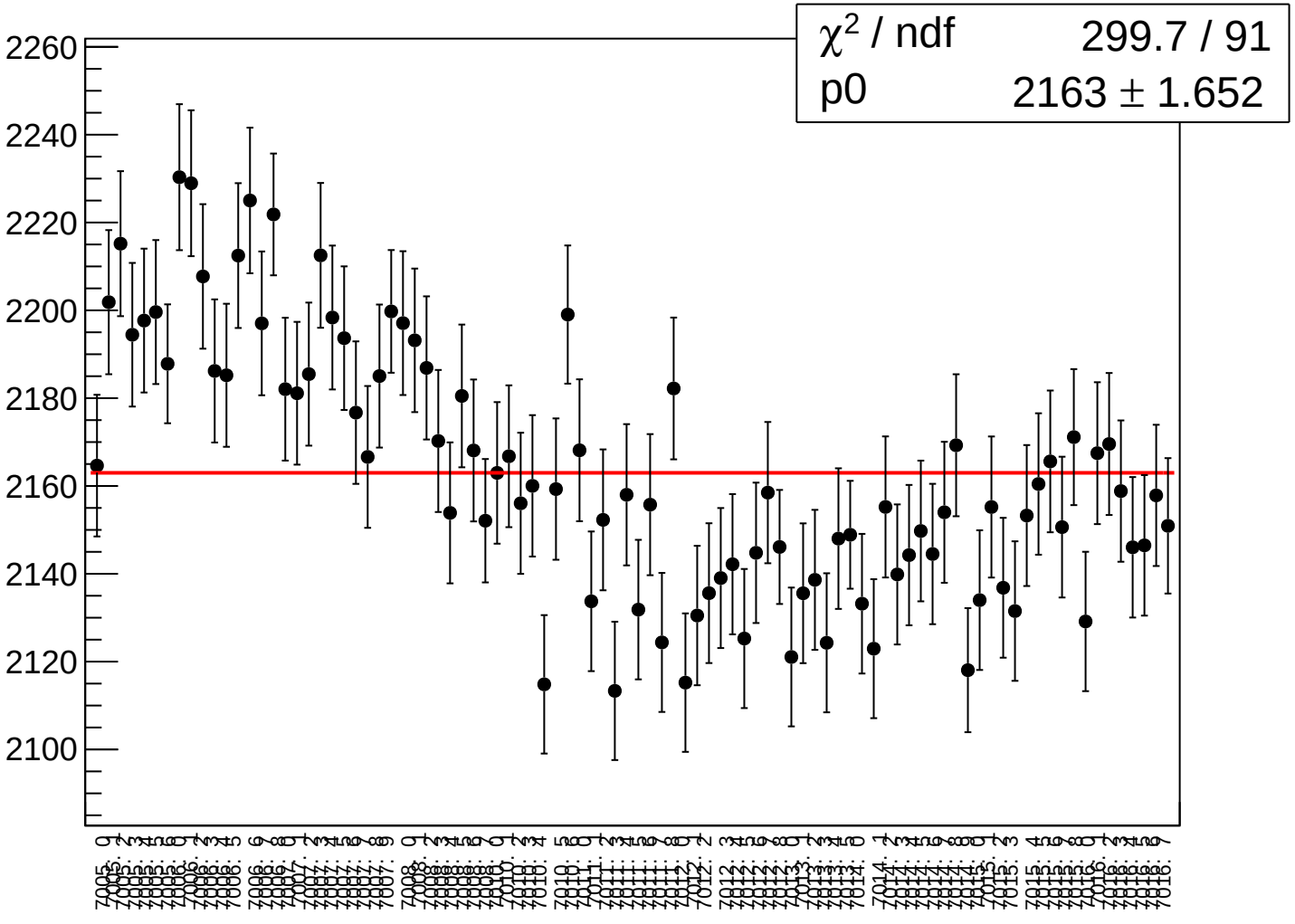

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 299.7 / 91
p0 2163 ± 1.652
2260
2240
2220
2200
2180
2160
2140
2120
2100

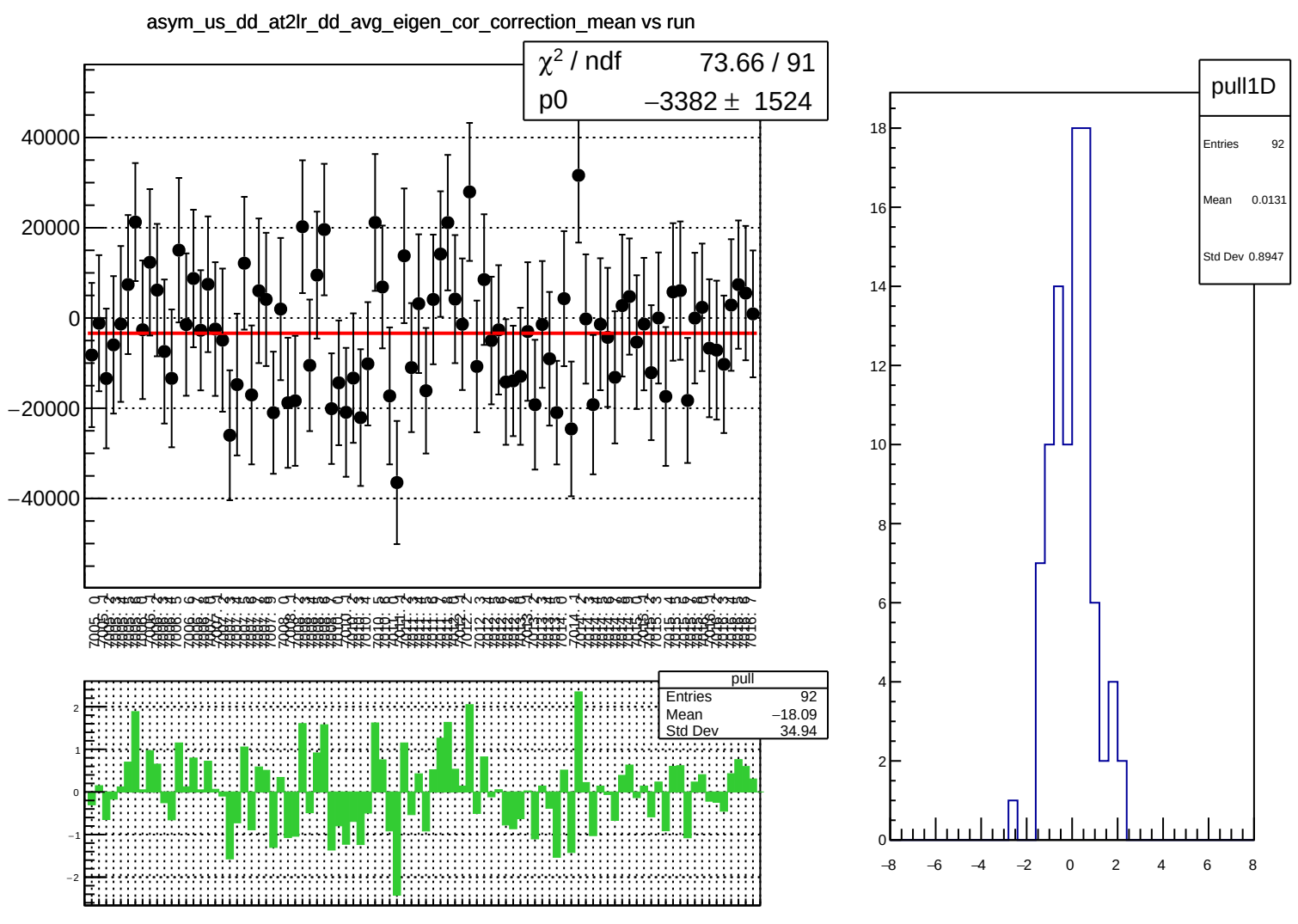

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 73.66 / 91
p0 −3382 ± 1524
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −18.09
Std Dev 34.94
2
1
0
−1
−2

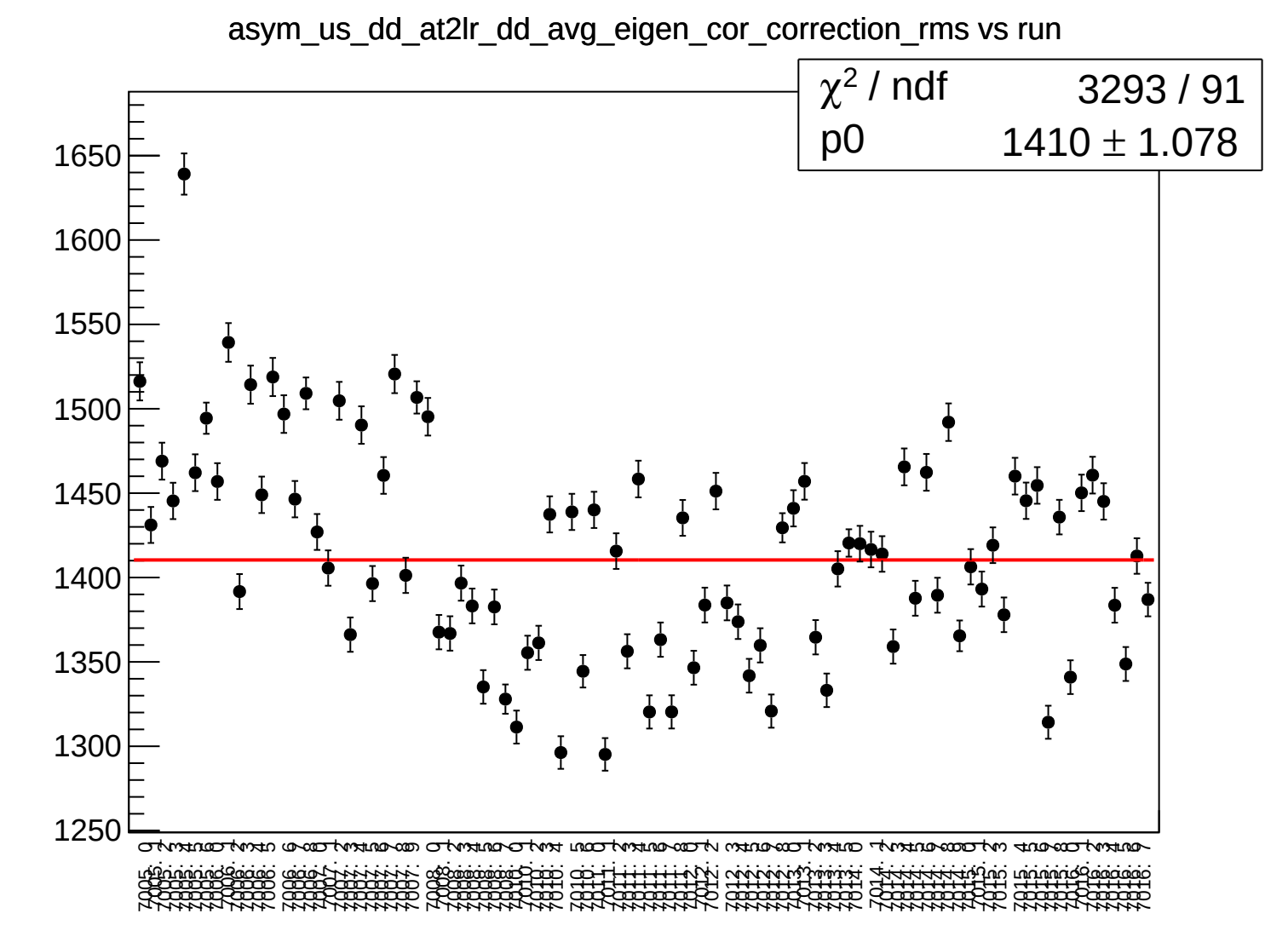

pull1D
Entries 92
Mean 0.0131
Std Dev 0.8947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

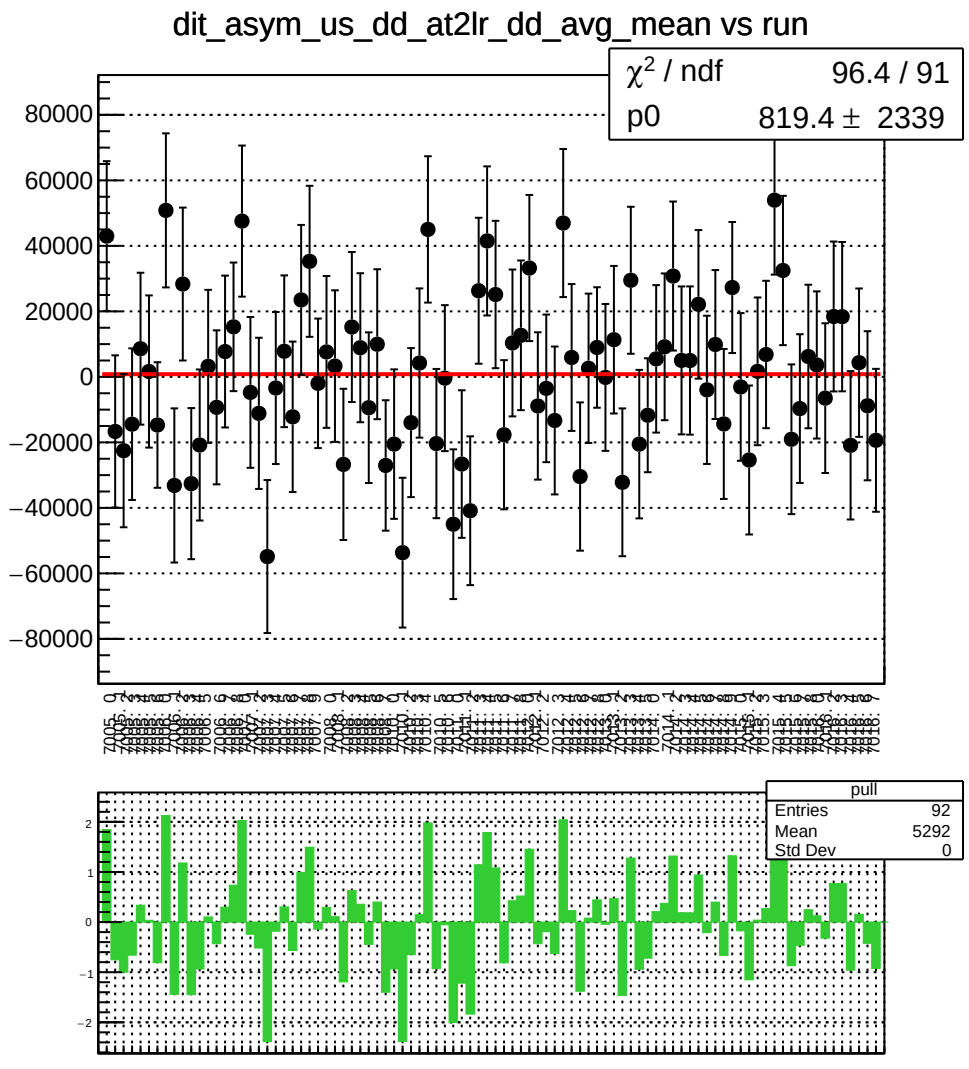

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3293 / 91
p0 1410 ± 1.078
1650
1600
1550
1500
1450
1400
1350
1300
1250

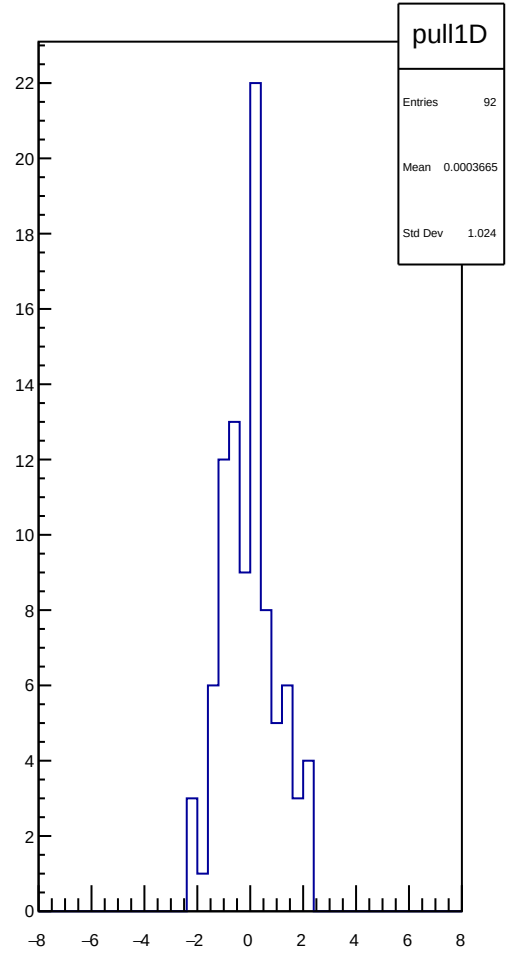

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 95.23 / 91
p0 1089 ± 2336
pull
Entries 92
Mean 7129
Std Dev 0
pull1D
Entries 92
Mean 0.0002771
Std Dev 1.017

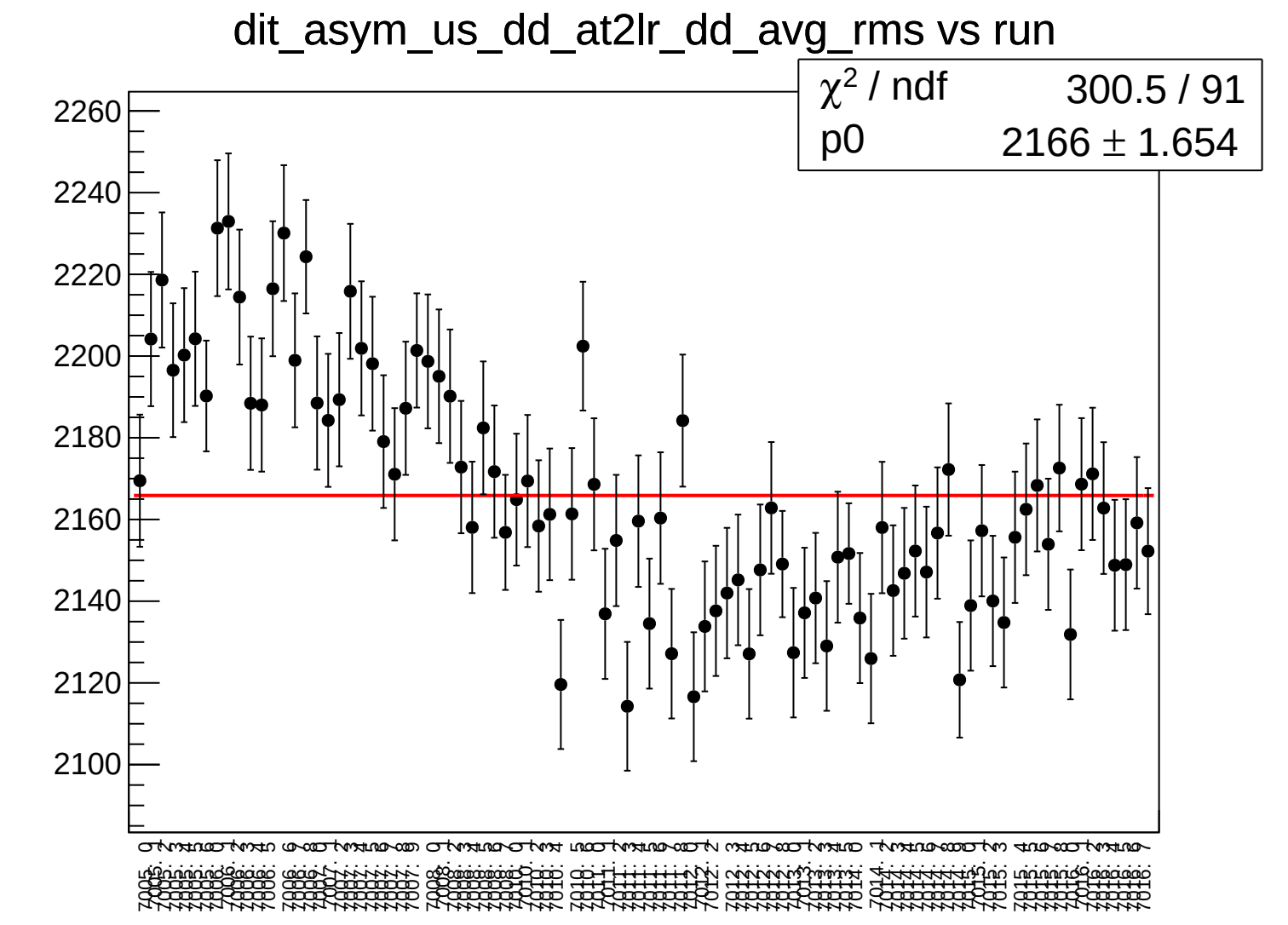

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 299.7 / 91
p0 2163 ± 1.652
2260
2240
2220
2200
2180
2160
2140
2120
2100

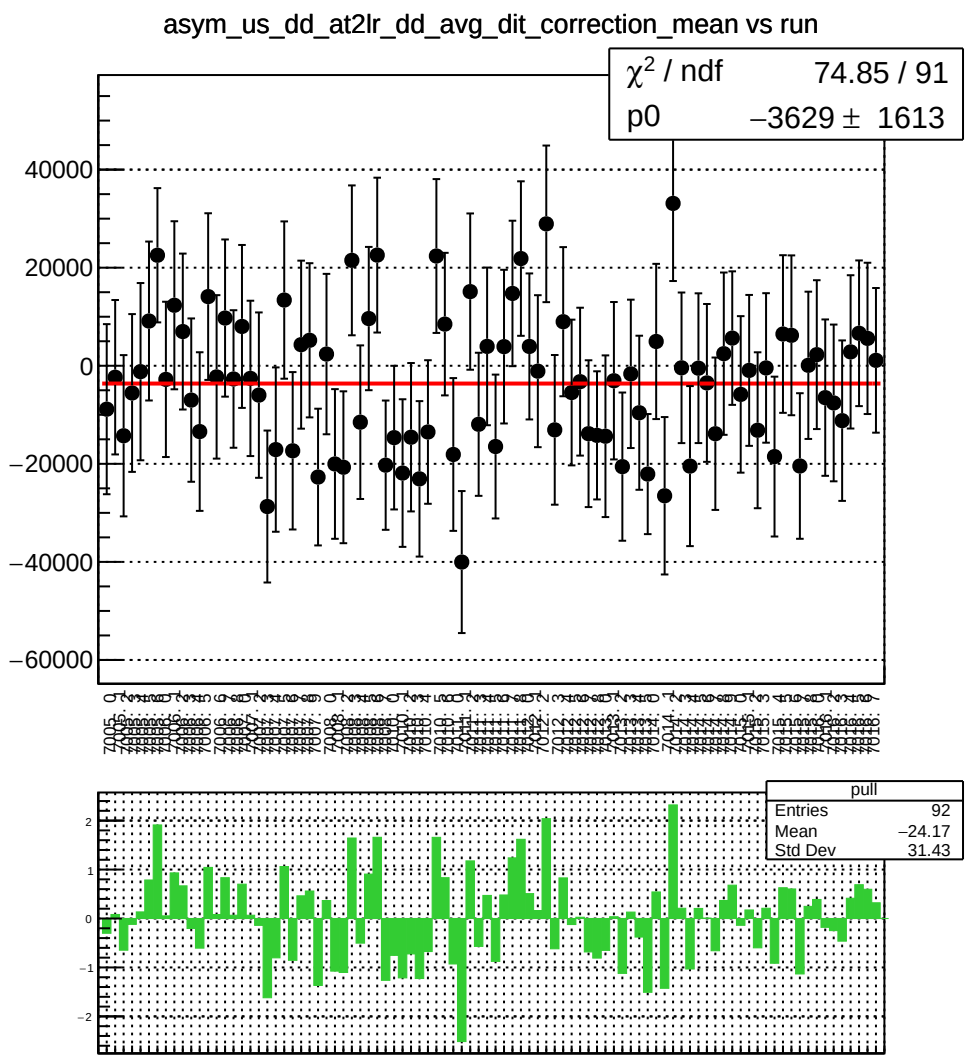

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.66 / 91
p0 −3382 ± 1524
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −18.09
Std Dev 34.94
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0131
Std Dev 0.8947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

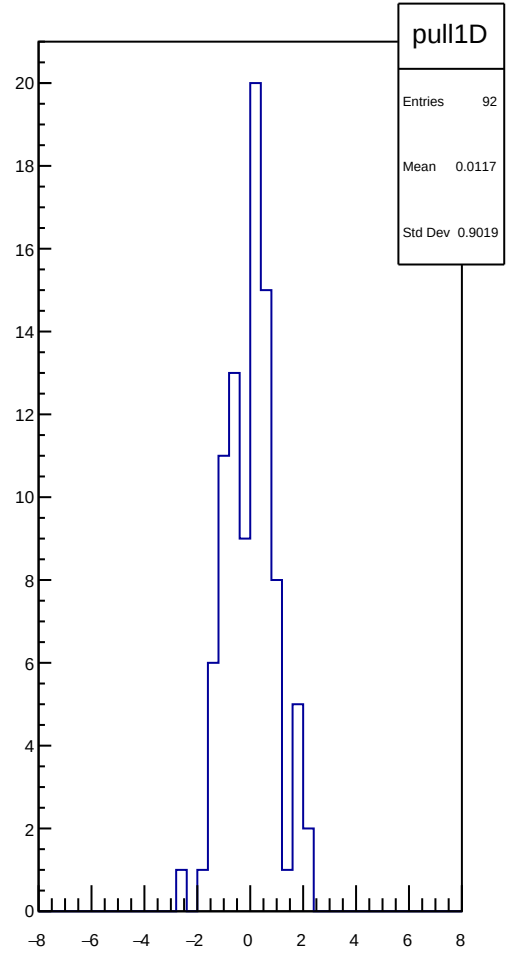

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3293 / 91
p0 1410 ± 1.078
1650
1600
1550
1500
1450
1400
1350
1300
1250

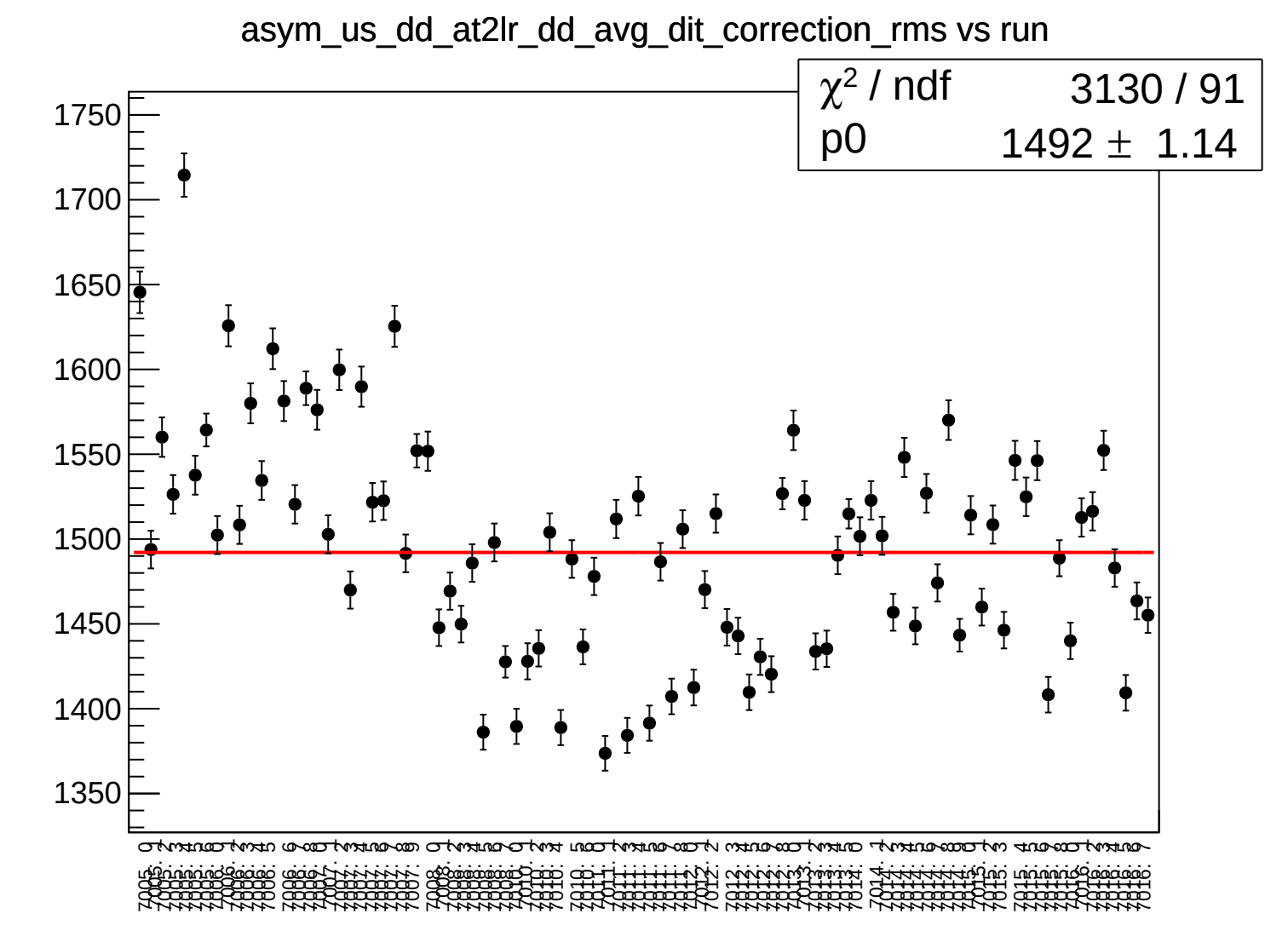

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 96.4 / 91
p0 819.4 ± 2339
pull
Entries 92
Mean 5292
Std Dev 0

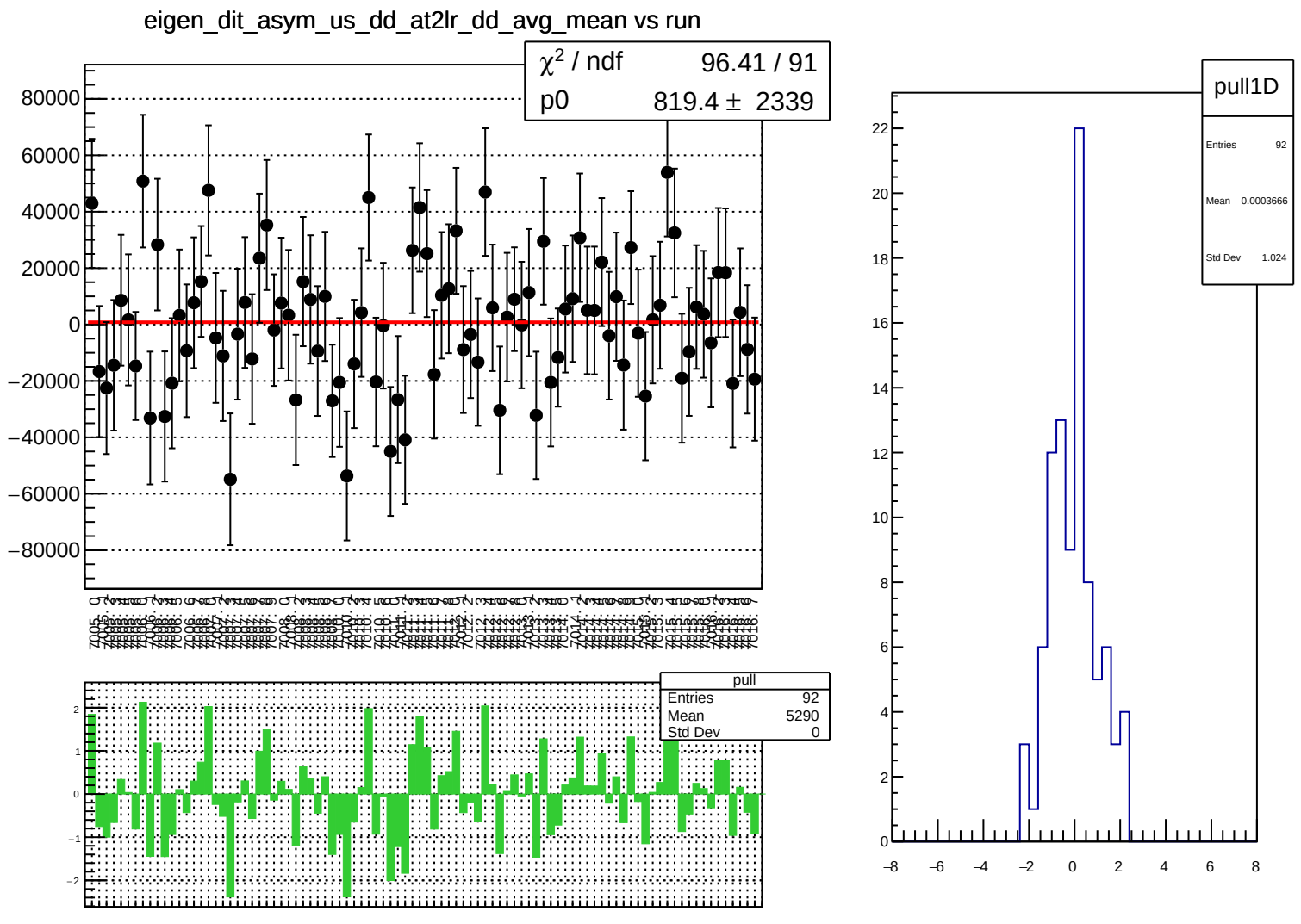

pull1D
Entries 92
Mean 0.0003665
Std Dev 1.024

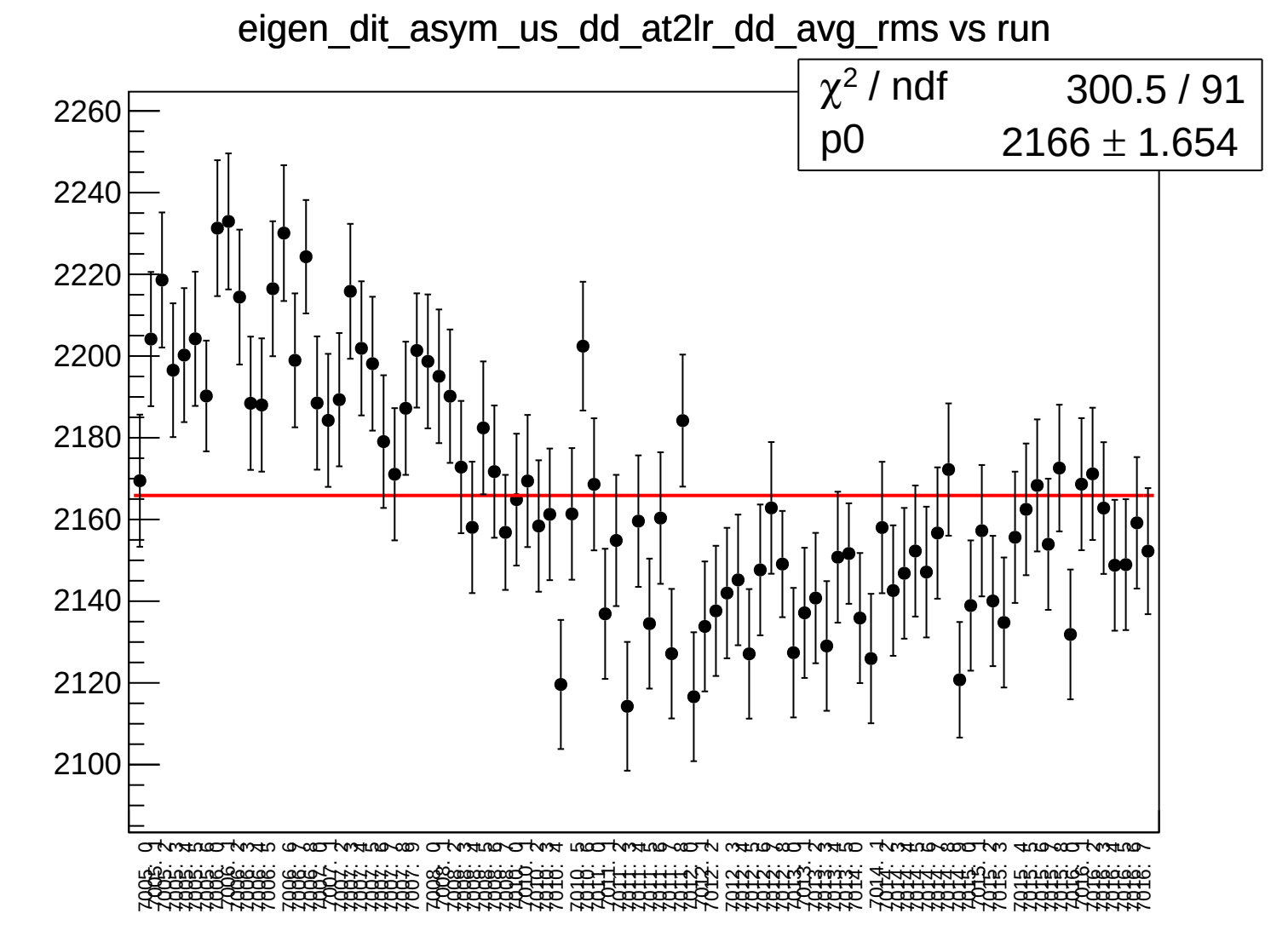

dit_asym_us_dd_at2lr_dd_avg_rms vs run
$\chi^2$ / ndf 300.5 / 91
p0 2166 ± 1.654
2260
2240
2220
2200
2180
2160
2140
2120
2100

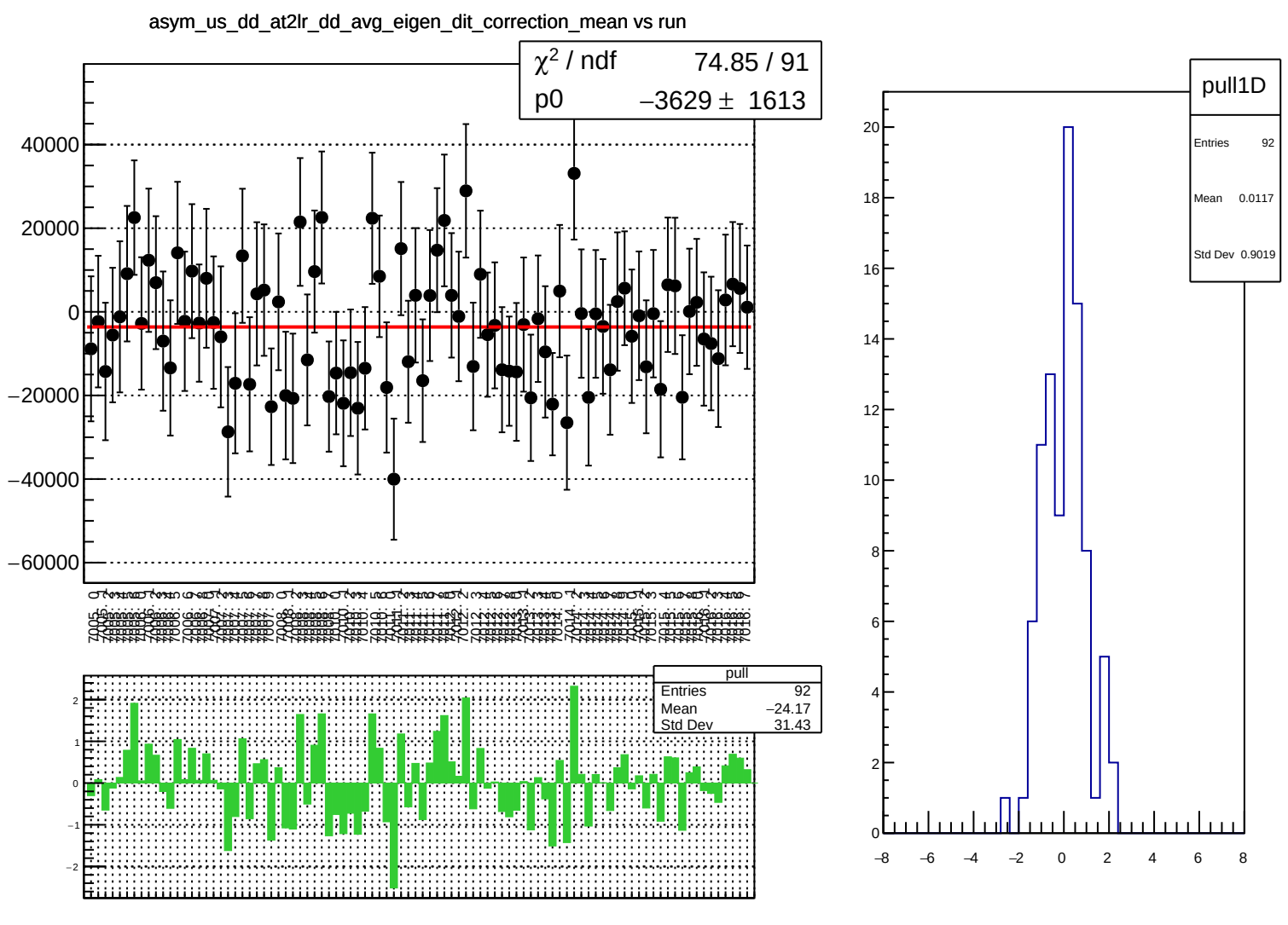

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 74.85 / 91
p0 −3629 ± 1613
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −24.17
Std Dev 31.43
2
1
0
−1
−2

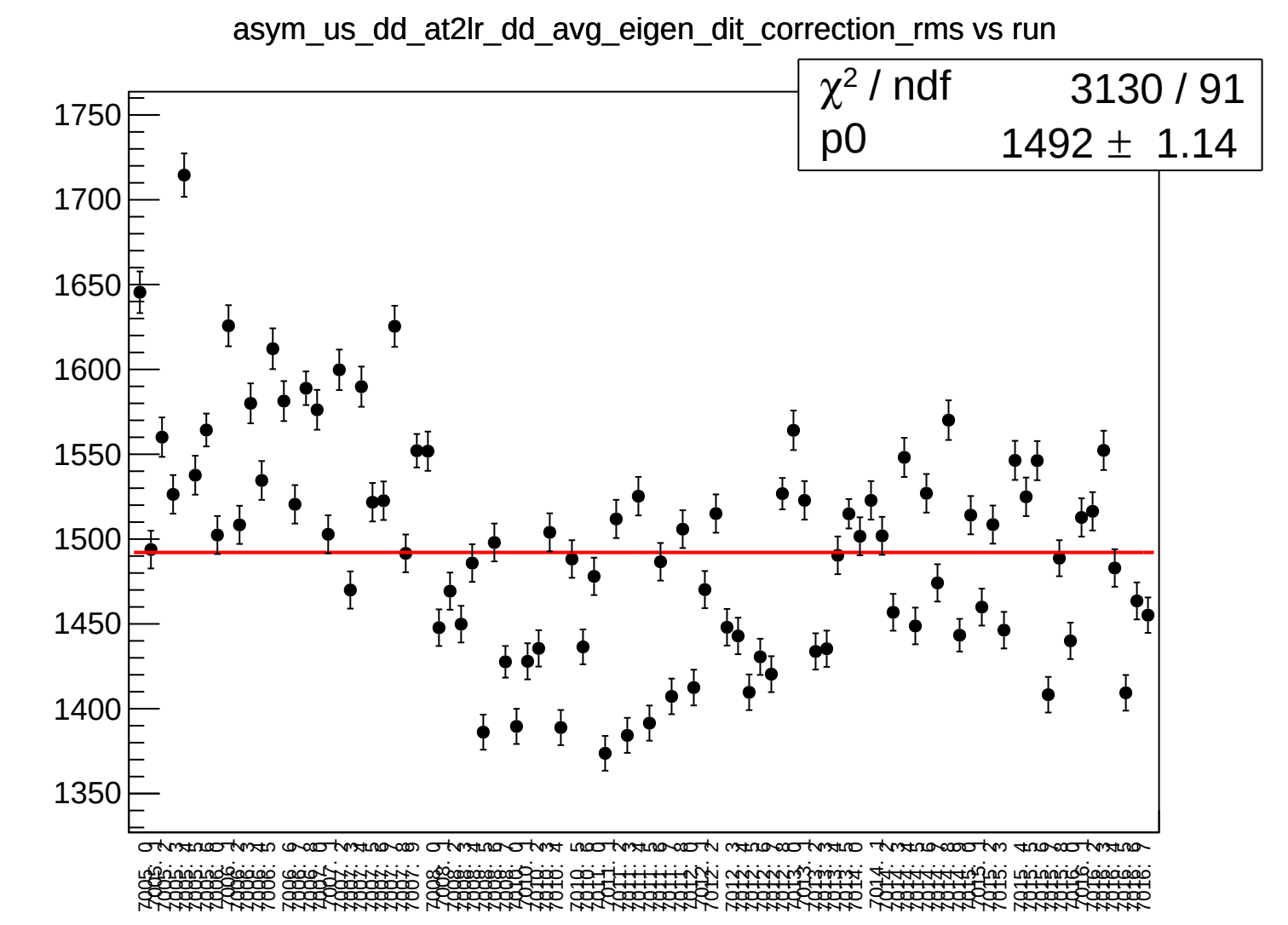

pull1D
Entries 92
Mean 0.0117
Std Dev 0.9019
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

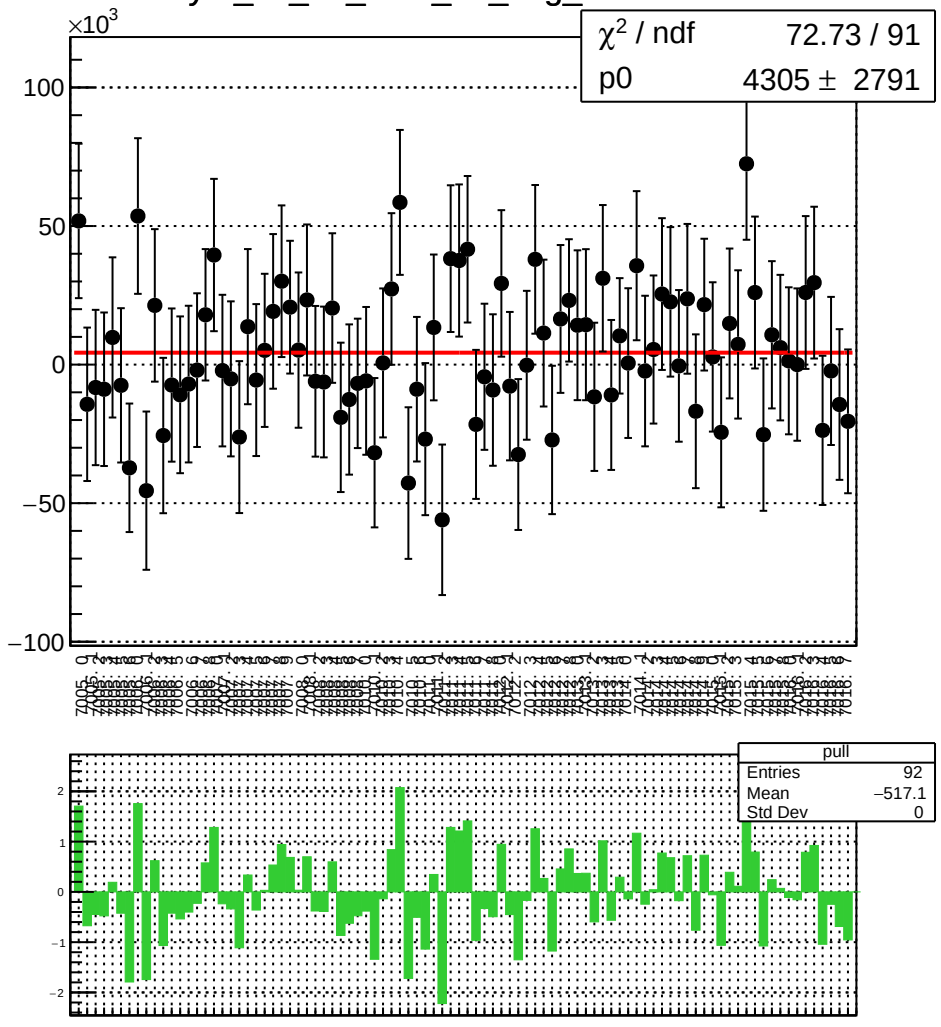

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3130 / 91
p0 1492 ± 1.14
1750
1700
1650
1600
1550
1500
1450
1400
1350

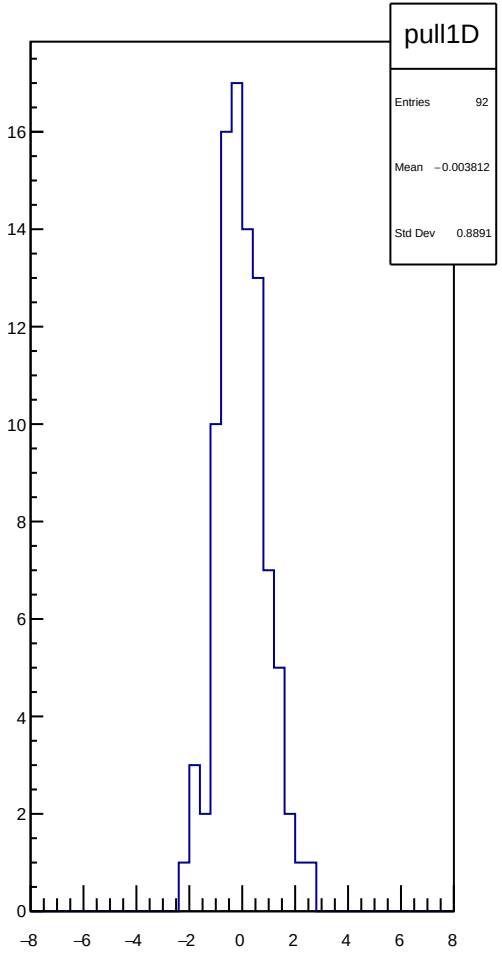

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 96.41 / 91
p0 819.4 ± 2339
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 5290
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0003666
Std Dev 1.024
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

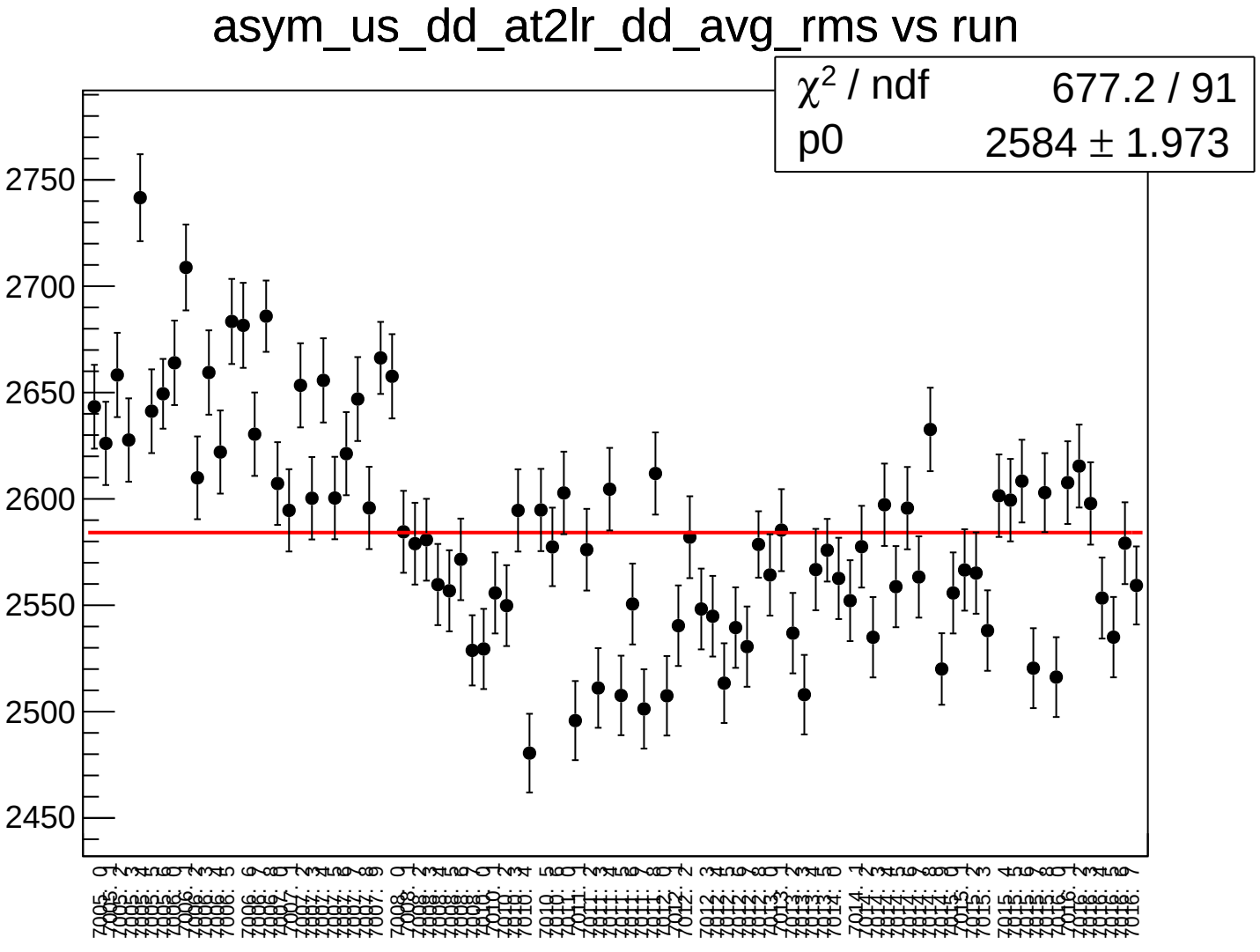

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 300.5 / 91
p0 2166 ± 1.654
2260
2240
2220
2200
2180
2160
2140
2120
2100

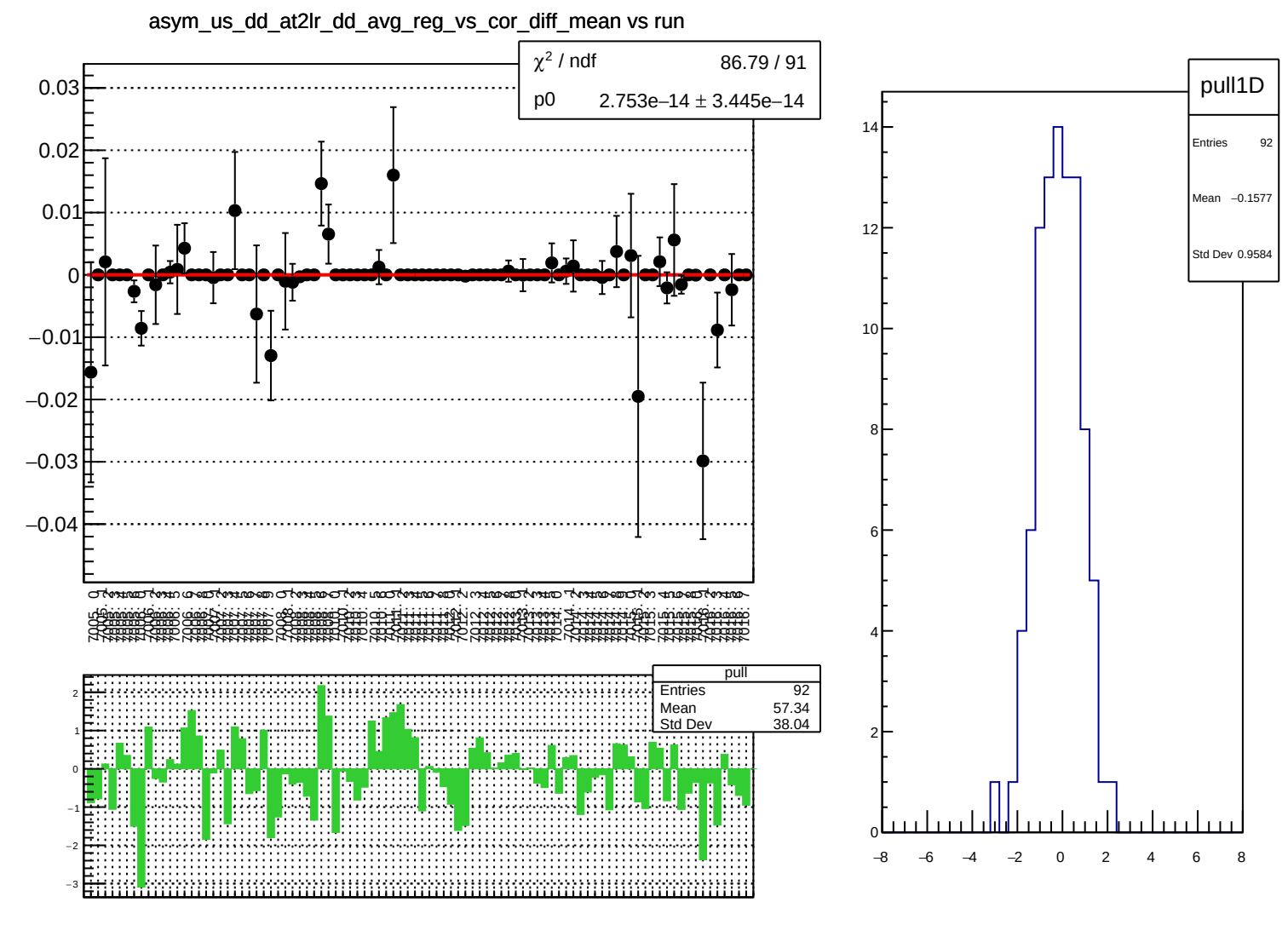

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.85 / 91
p0 −3629 ± 1613
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −24.17
Std Dev 31.43
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0117
Std Dev 0.9019
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

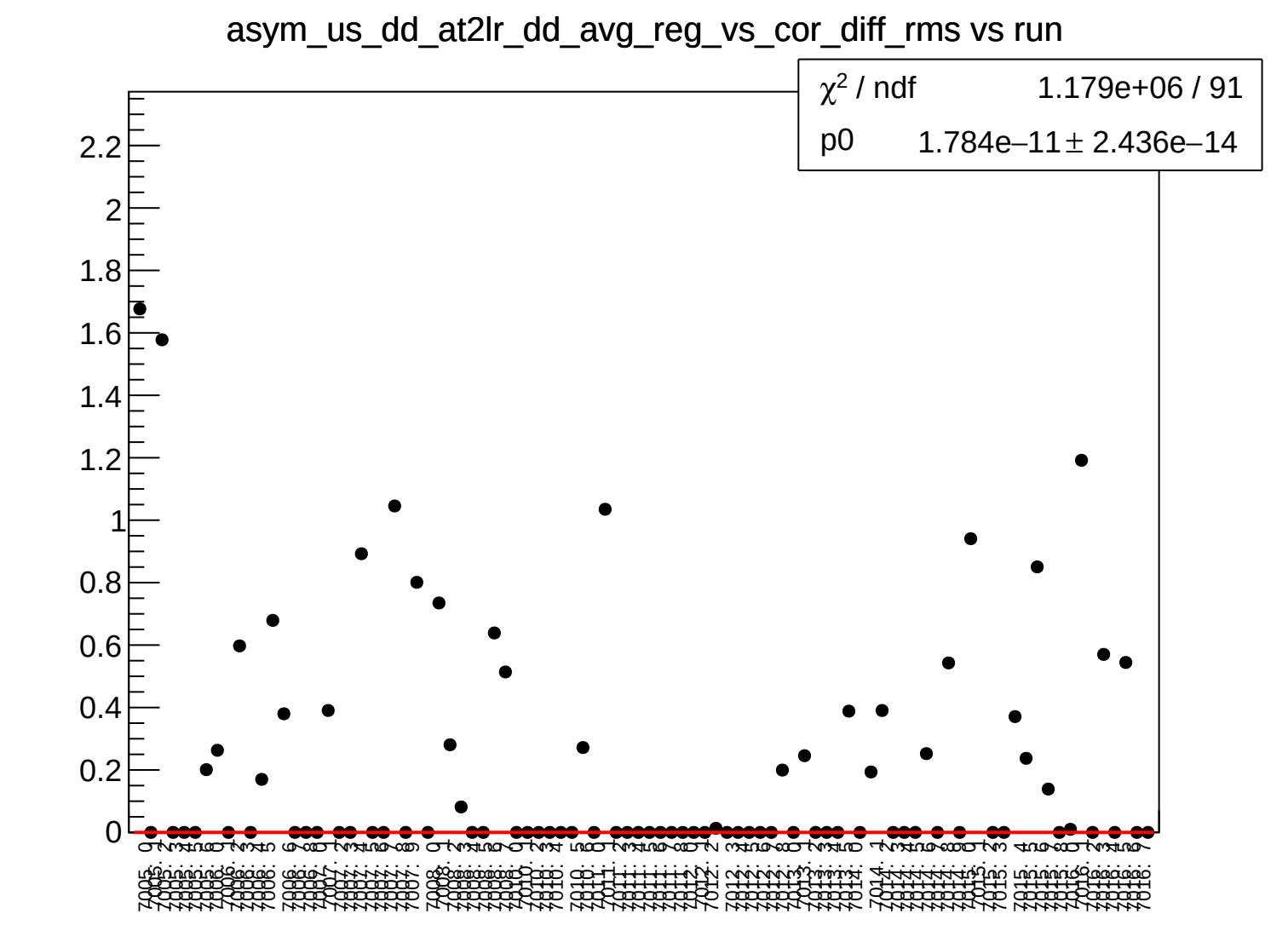

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3130 / 91
p0 1492 ± 1.14
1750
1700
1650
1600
1550
1500
1450
1400
1350

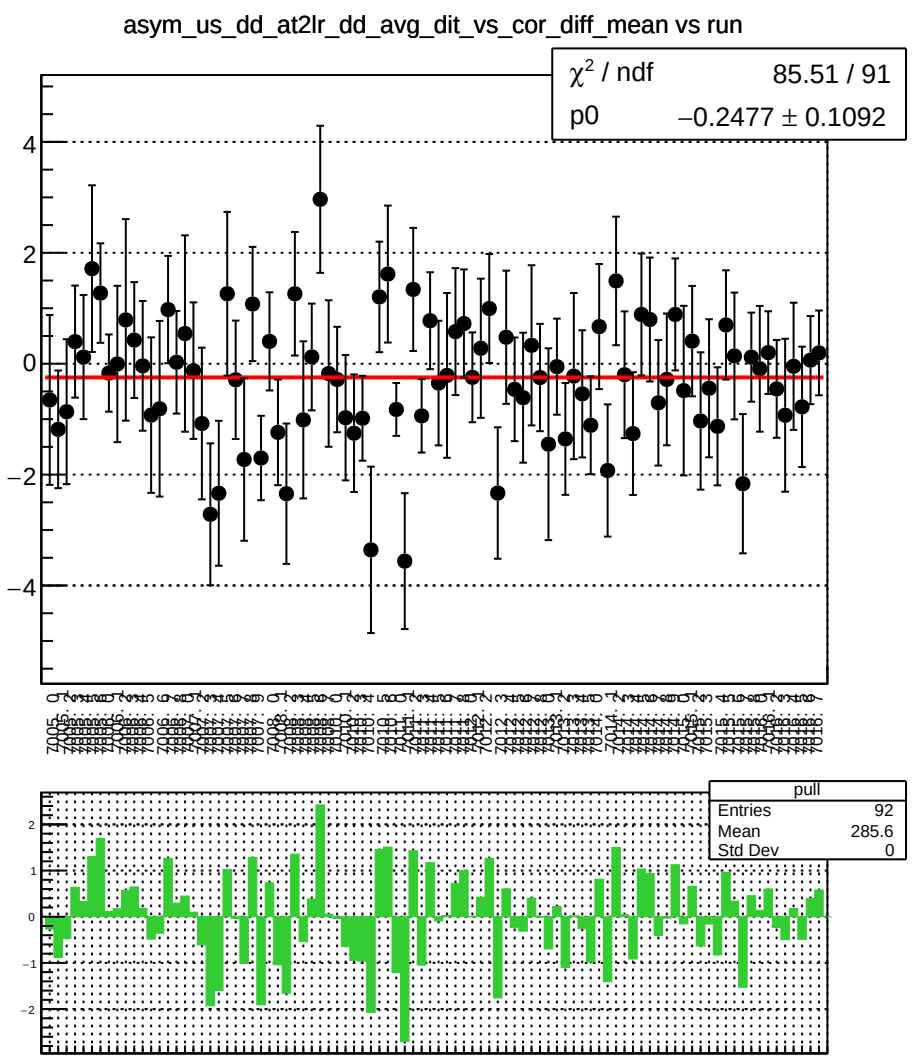

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 72.73 / 91
p0 4305 ± 2791
100
50
0
−50
−100
pull
Entries 92
Mean −517.1
Std Dev 0
2
1
0
−1
−2

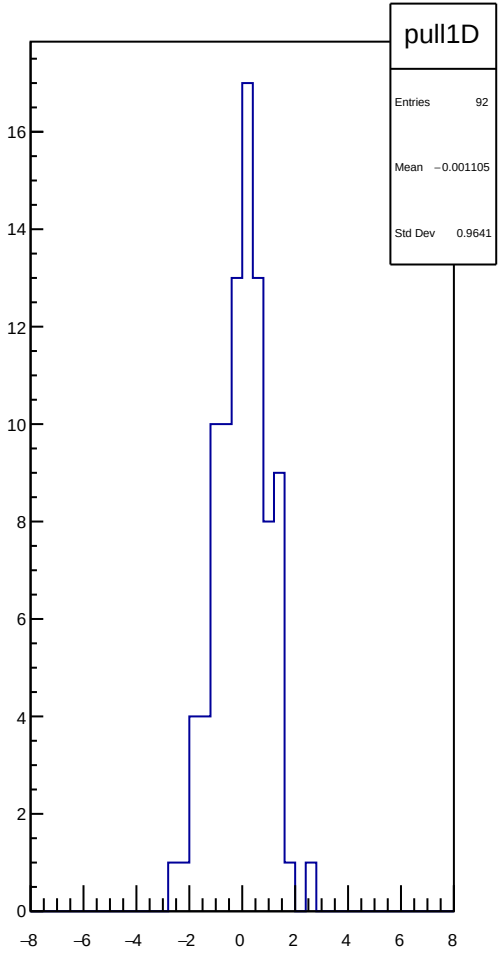

pull1D
Entries 92
Mean −0.003812
Std Dev 0.8891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

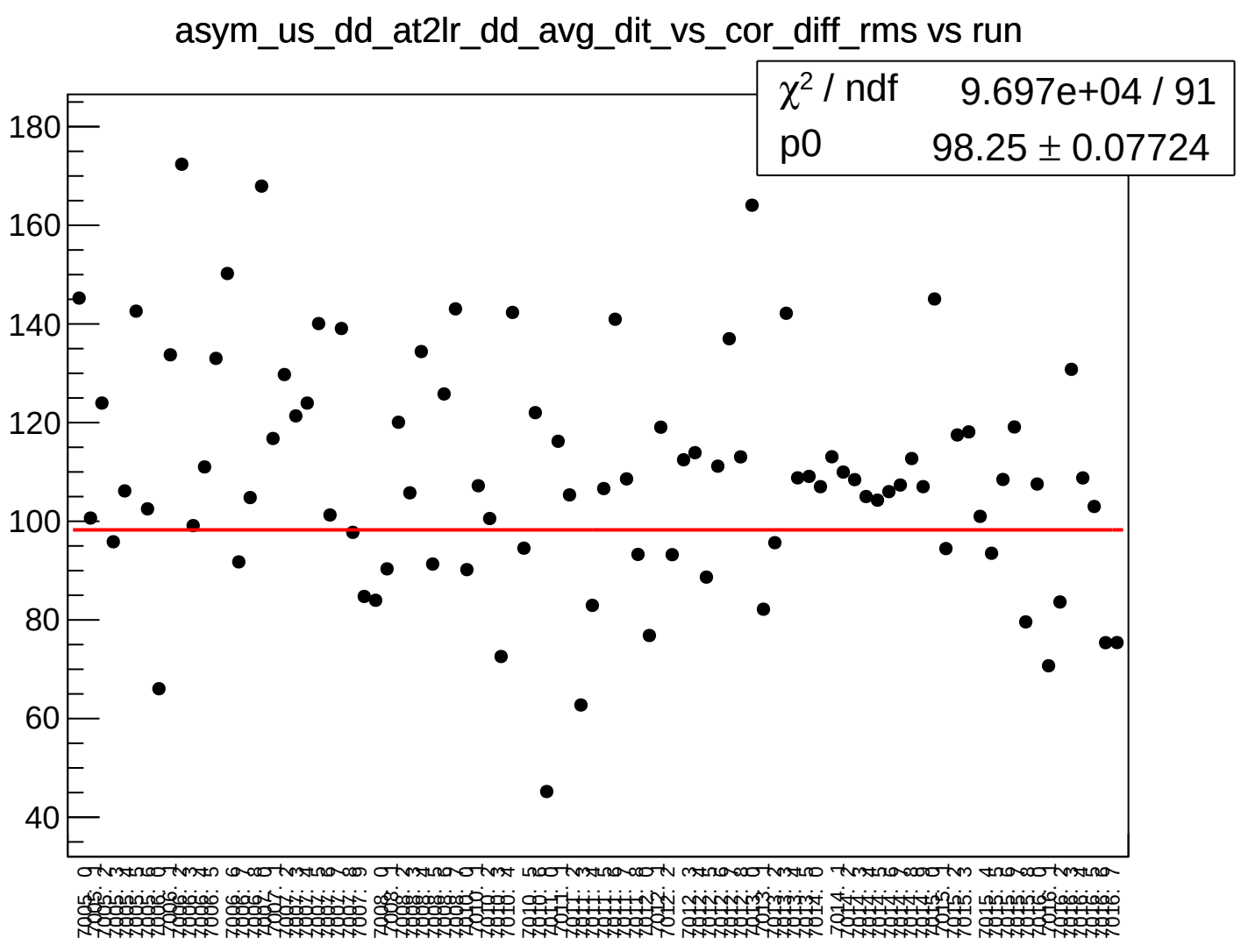

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 677.2 / 91
p0 2584 ± 1.973
2750
2700
2650
2600
2550
2500
2450

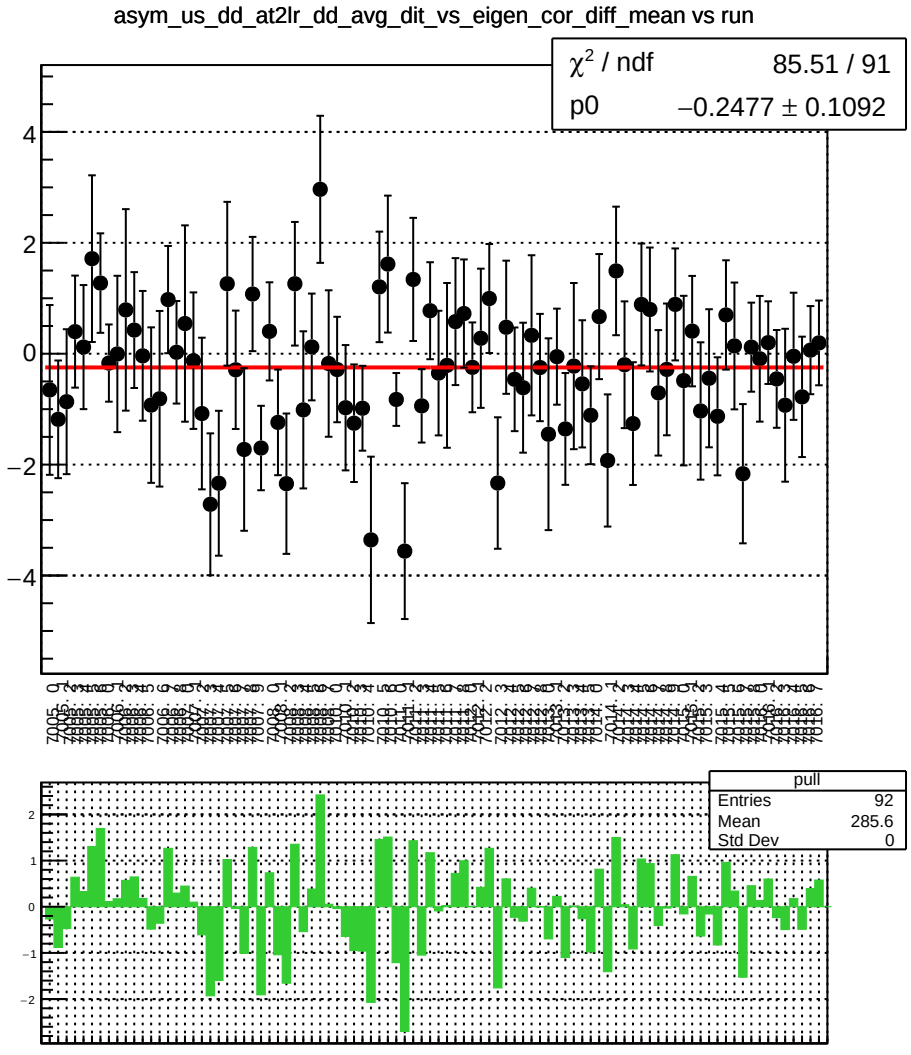

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.79 / 91
p0 2.753e−14 ± 3.445e−14
pull
Entries 92
Mean 57.34
Std Dev 38.04
pull1D
Entries 92
Mean −0.1577
Std Dev 0.9584

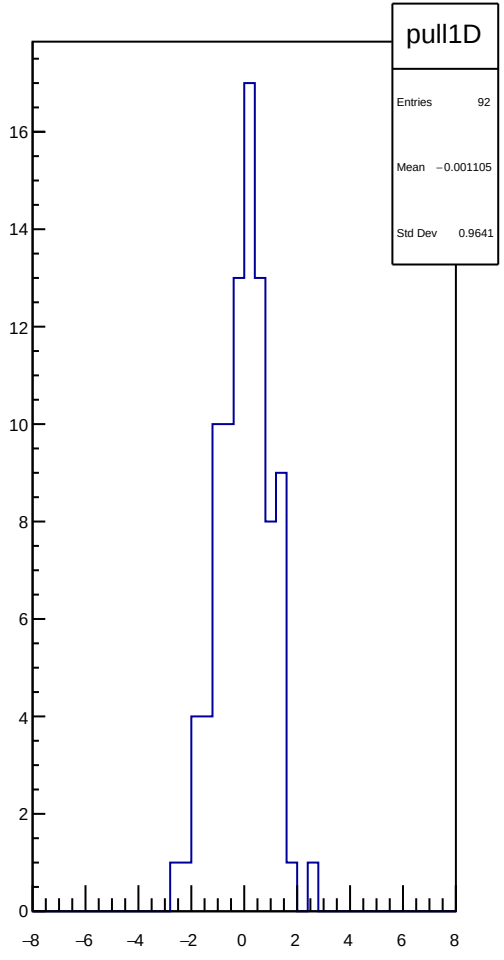

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.179e+06 / 91
p0 1.784e−11 ± 2.436e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

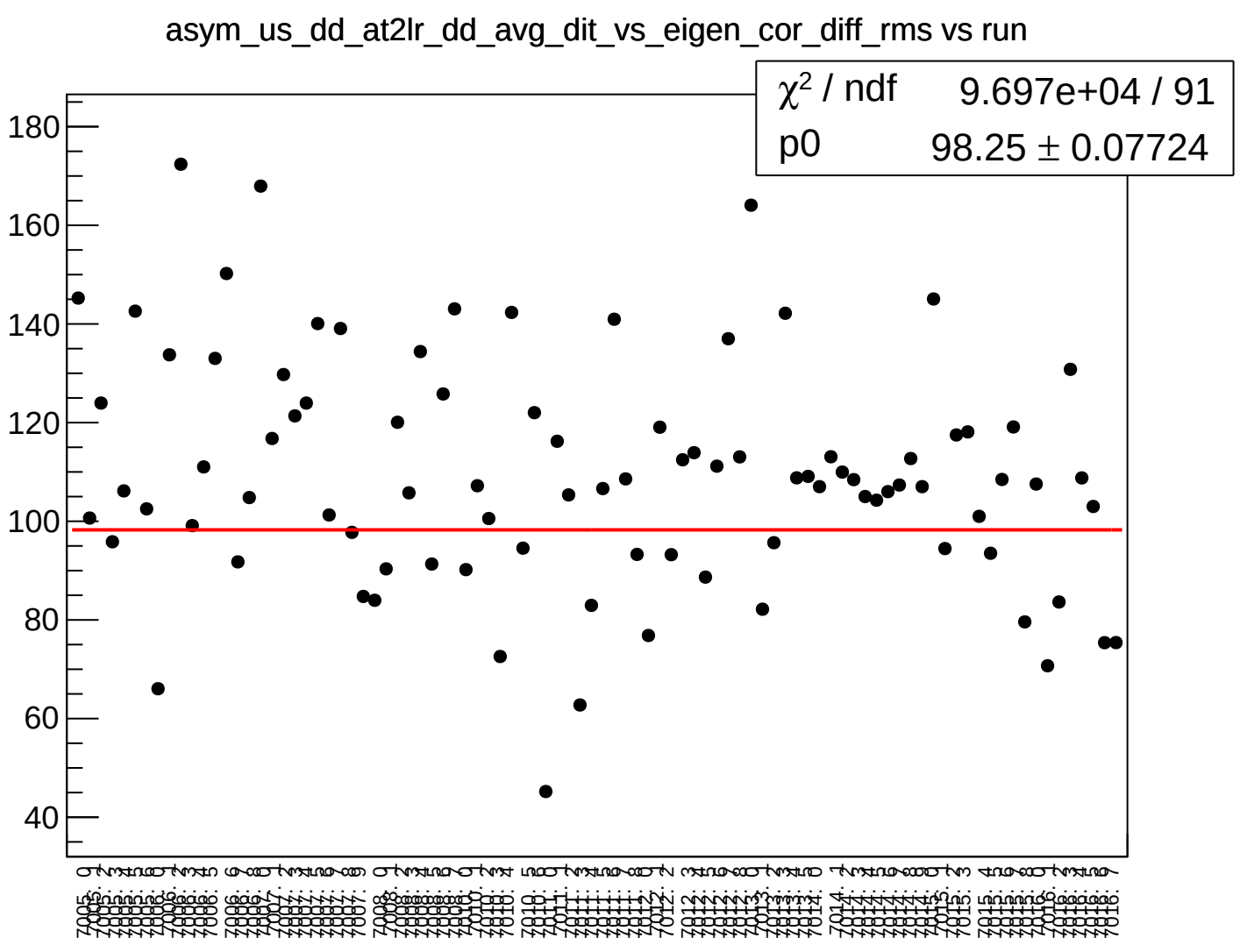

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.51 / 91
p0 −0.2477 ± 0.1092
pull
Entries 92
Mean 285.6
Std Dev 0

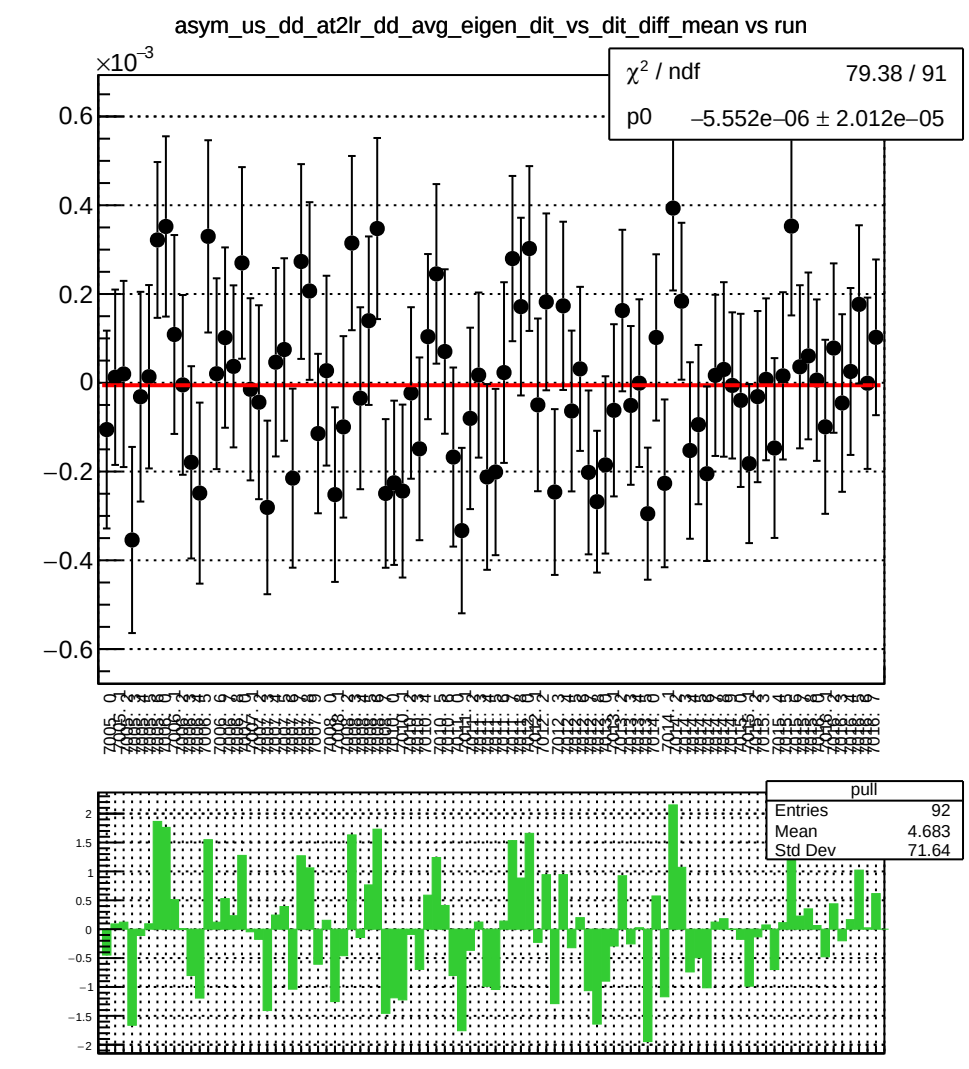

pull1D
Entries 92
Mean −0.001105
Std Dev 0.9641

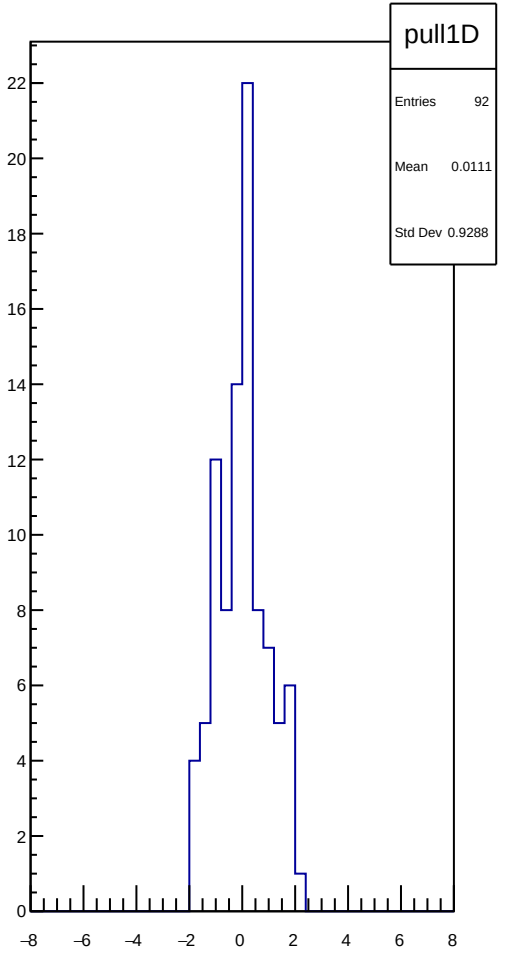

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.697e+04 / 91
p0 98.25 ± 0.07724
180
160
140
120
100
80
60
40

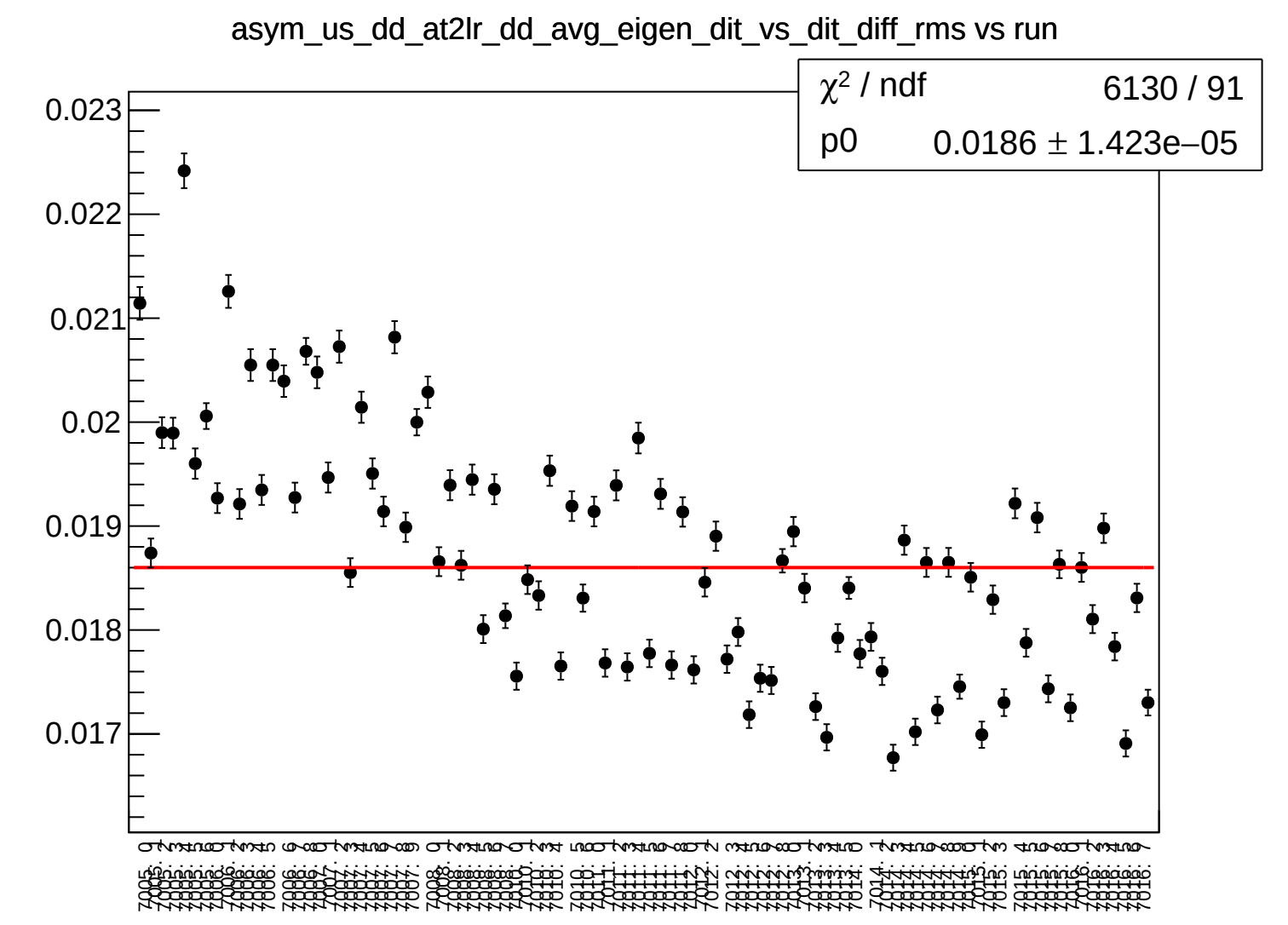

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.51 / 91
p0 −0.2477 ± 0.1092
pull
Entries 92
Mean 285.6
Std Dev 0

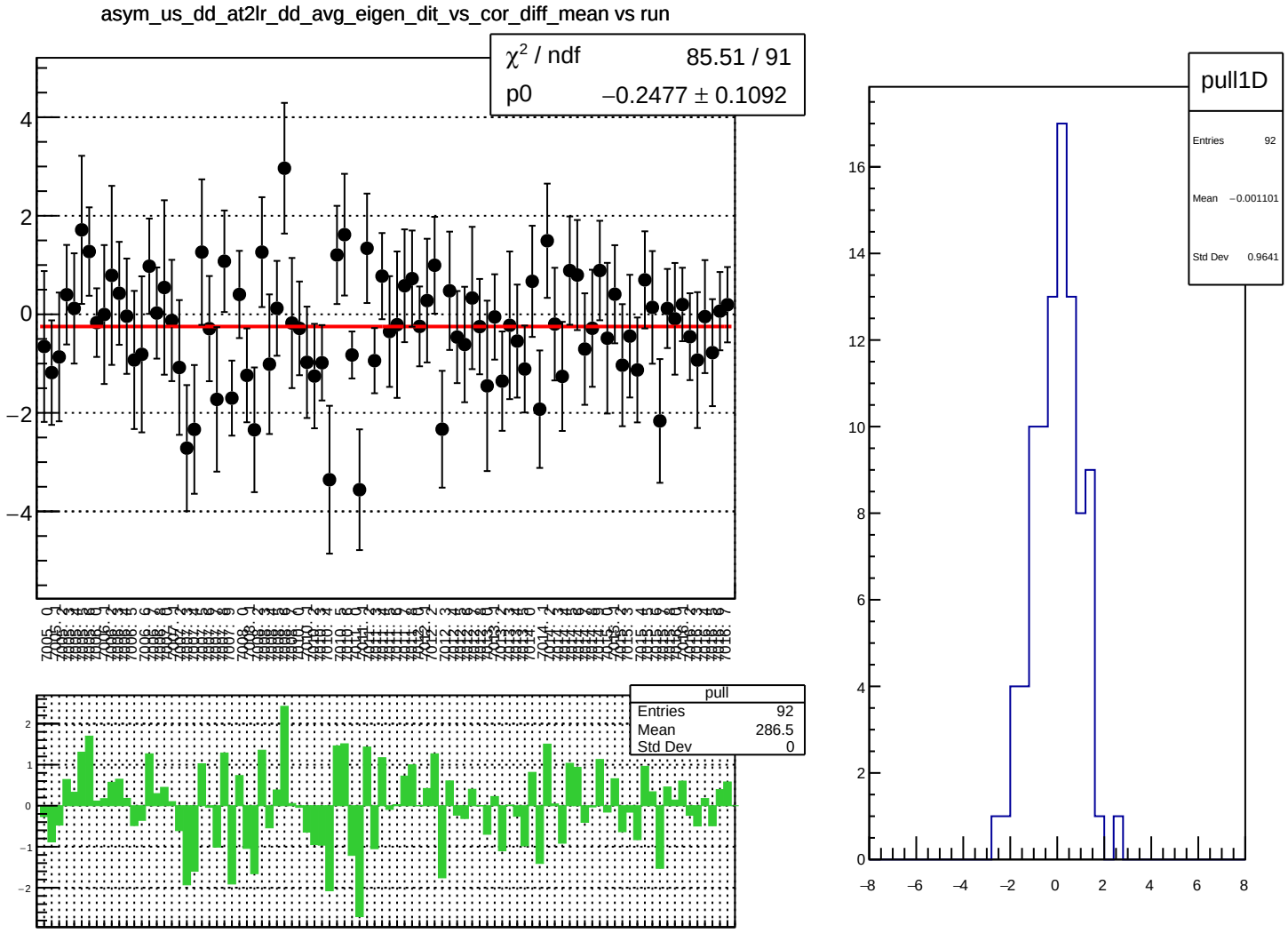

pull1D
Entries 92
Mean −0.001105
Std Dev 0.9641

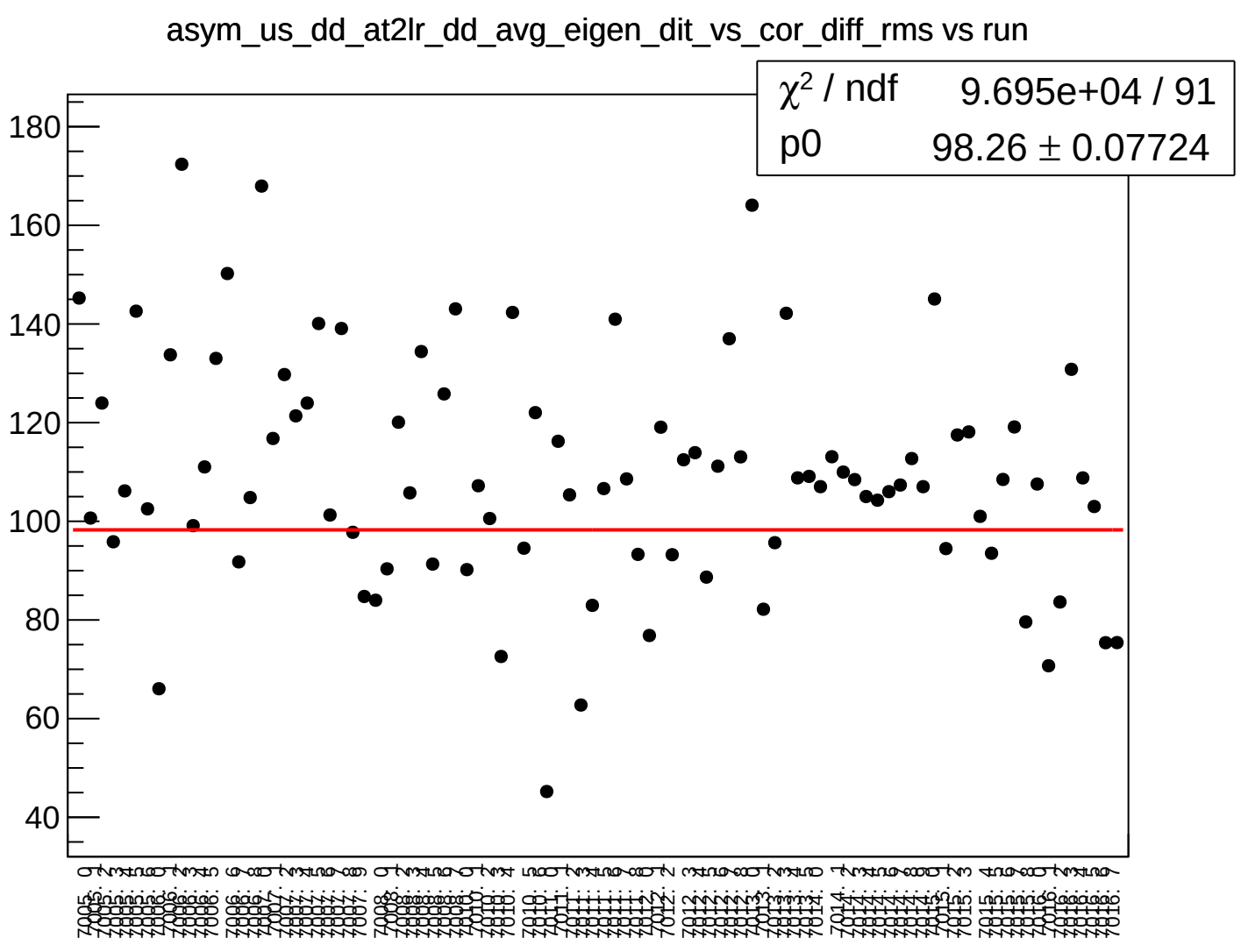

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.697e+04 / 91
p0 98.25 ± 0.07724
180
160
140
120
100
80
60
40

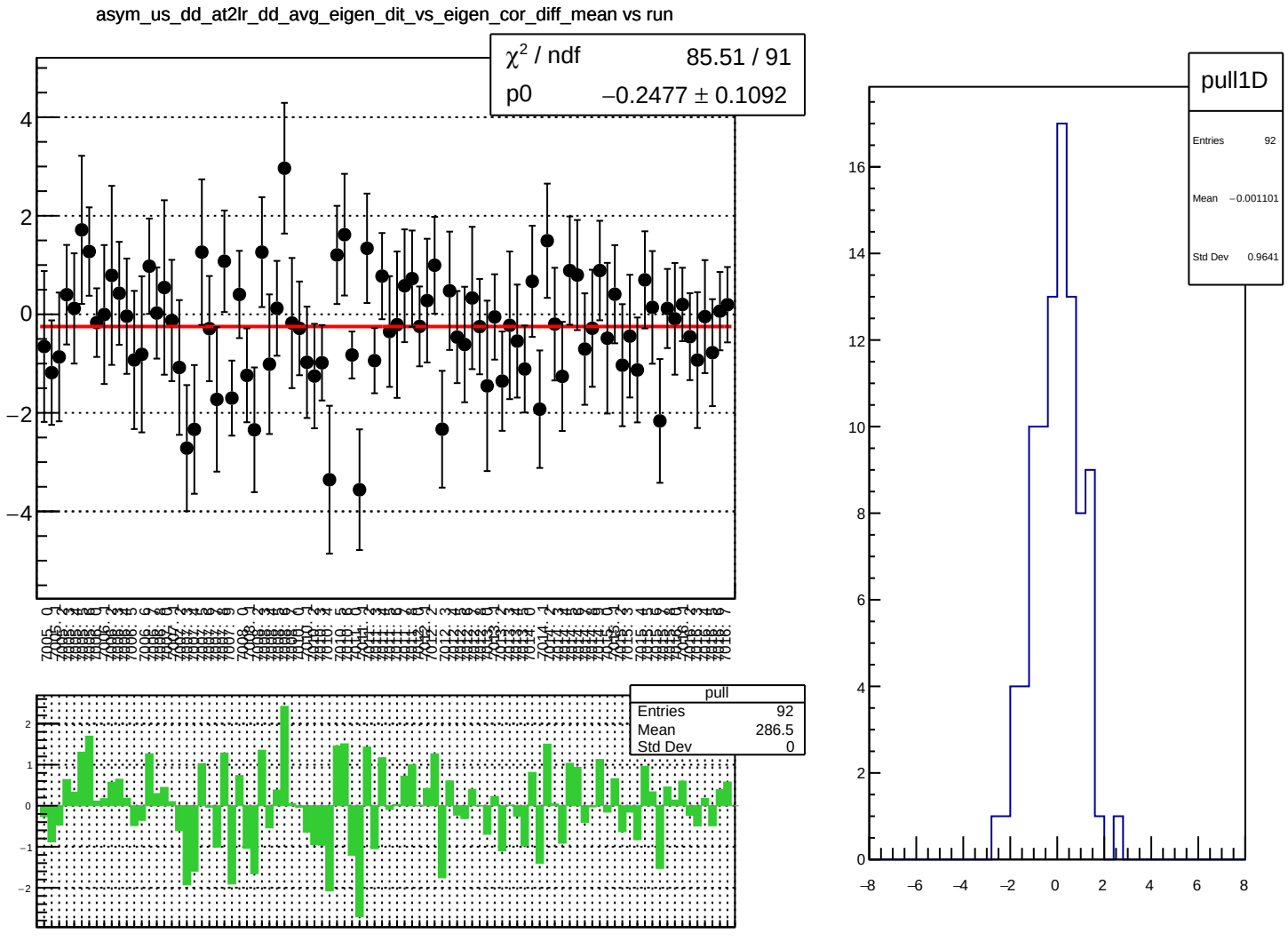

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.38 / 91
p0 −5.552e−06 ± 2.012e−05
pull
Entries 92
Mean 4.683
Std Dev 71.64

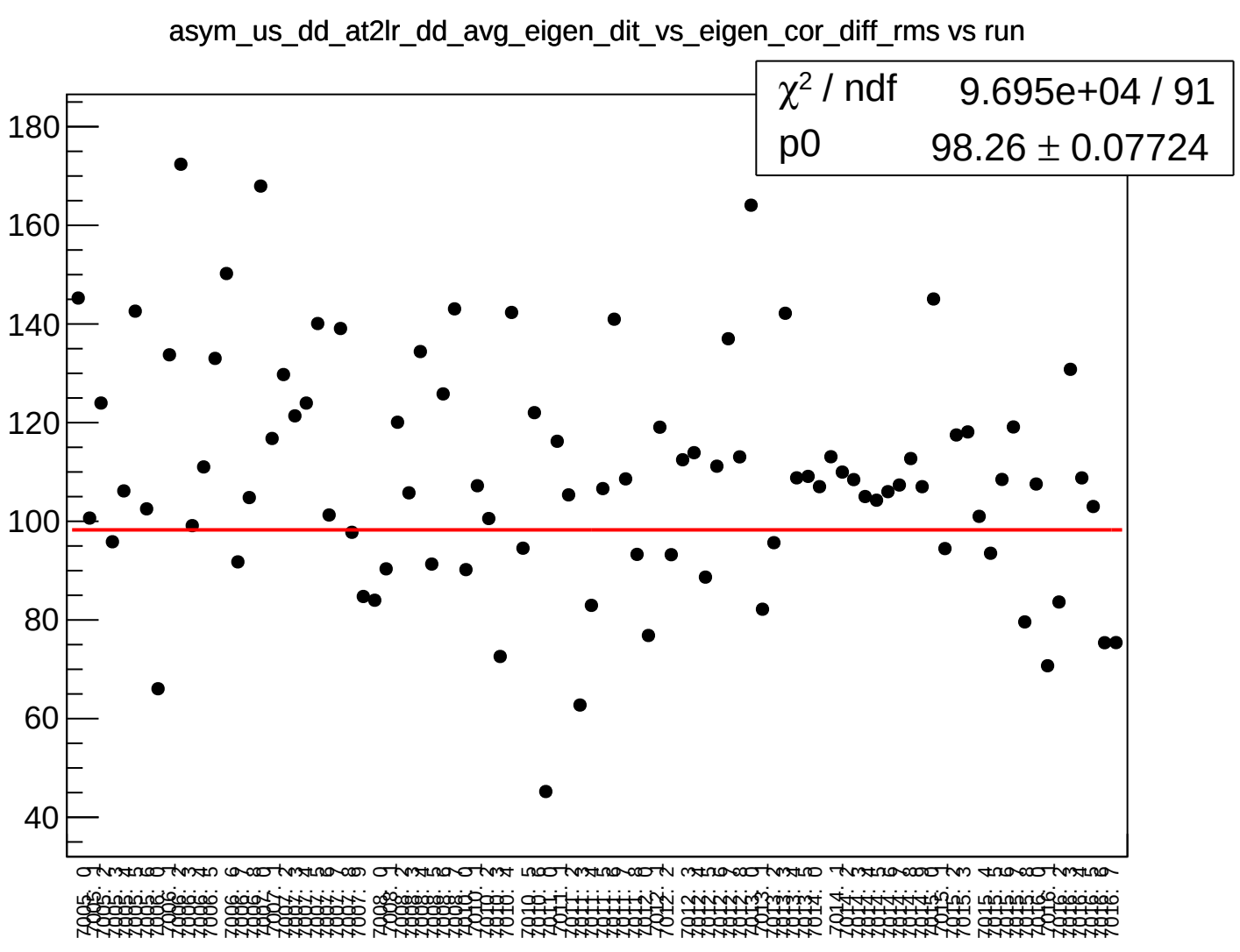

pull1D
Entries 92
Mean 0.0111
Std Dev 0.9288

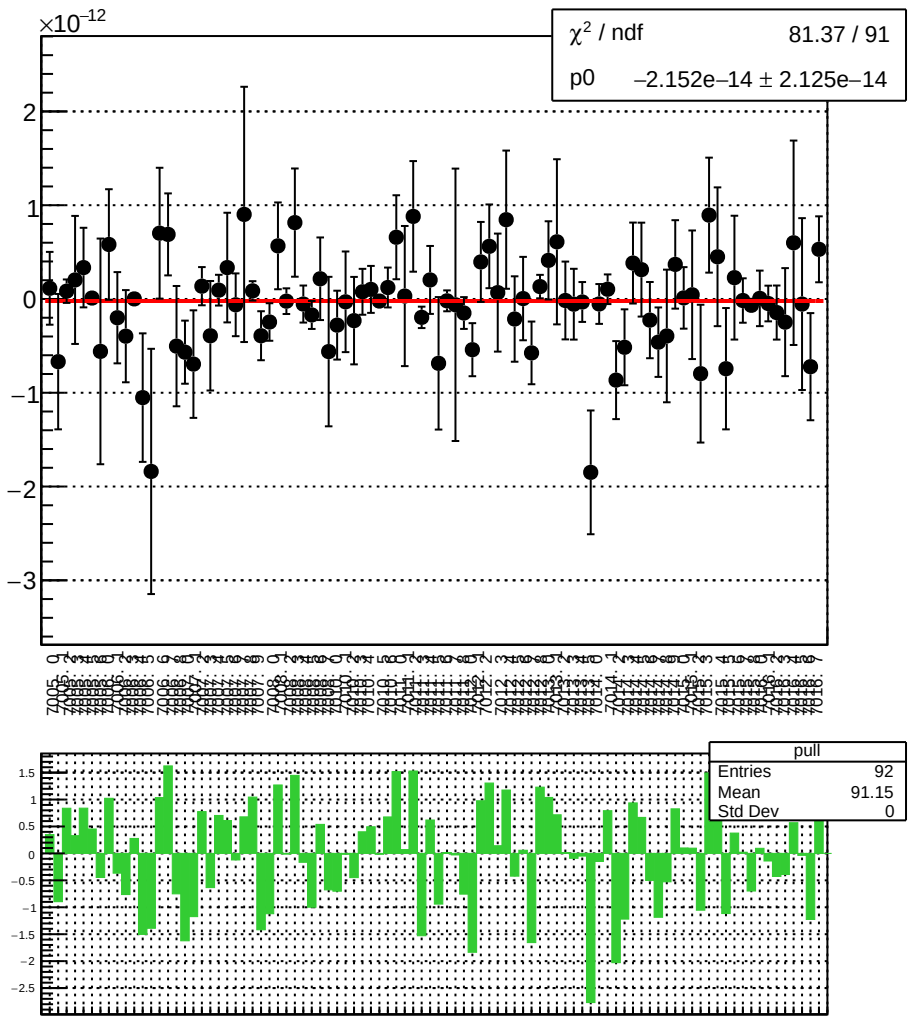

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6130 / 91
p0 0.0186 ± 1.423e−05
0.023
0.022
0.021
0.02
0.019
0.018
0.017

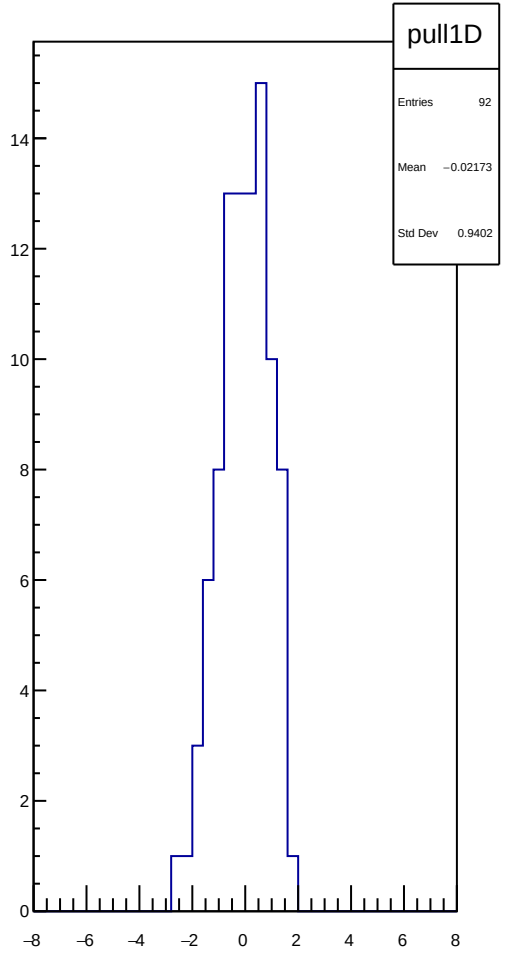

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.51 / 91
p0 −0.2477 ± 0.1092
pull
Entries 92
Mean 286.5
Std Dev 0
pull1D
Entries 92
Mean −0.001101
Std Dev 0.9641

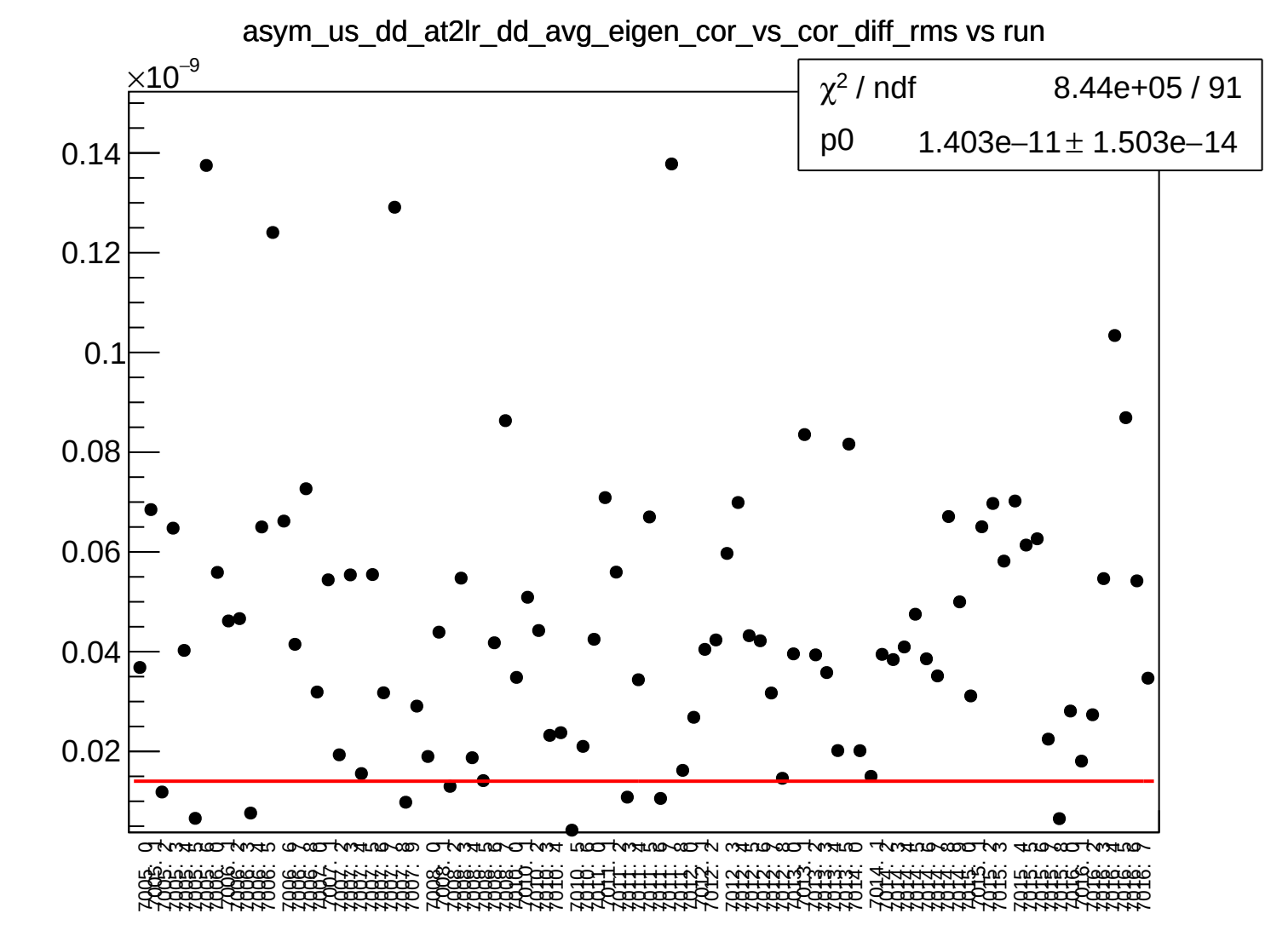

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.695e+04 / 91
p0 98.26 ± 0.07724
180
160
140
120
100
80
60
40

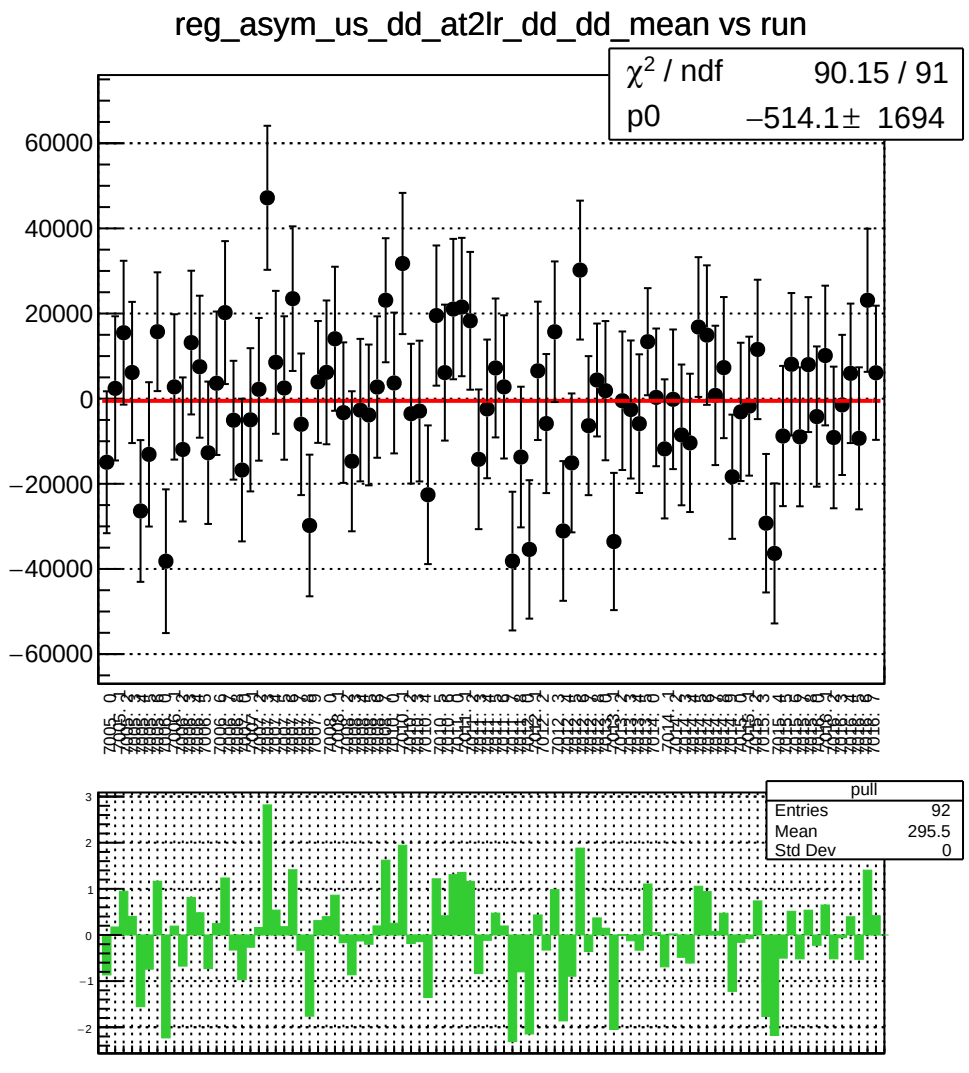

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.51 / 91
p0 −0.2477 ± 0.1092
pull
Entries 92
Mean 286.5
Std Dev 0
pull1D
Entries 92
Mean −0.001101
Std Dev 0.9641

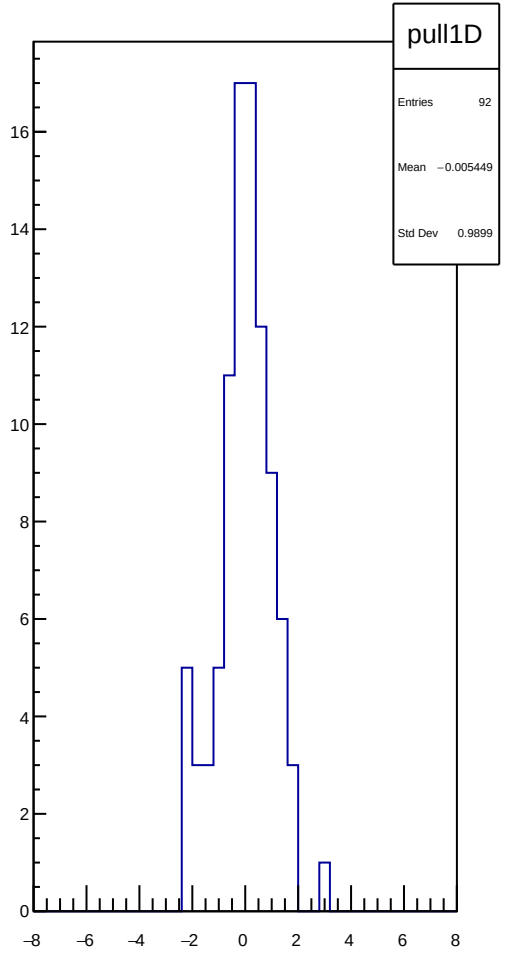

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.695e+04 / 91
p0 98.26 ± 0.07724
180
160
140
120
100
80
60
40

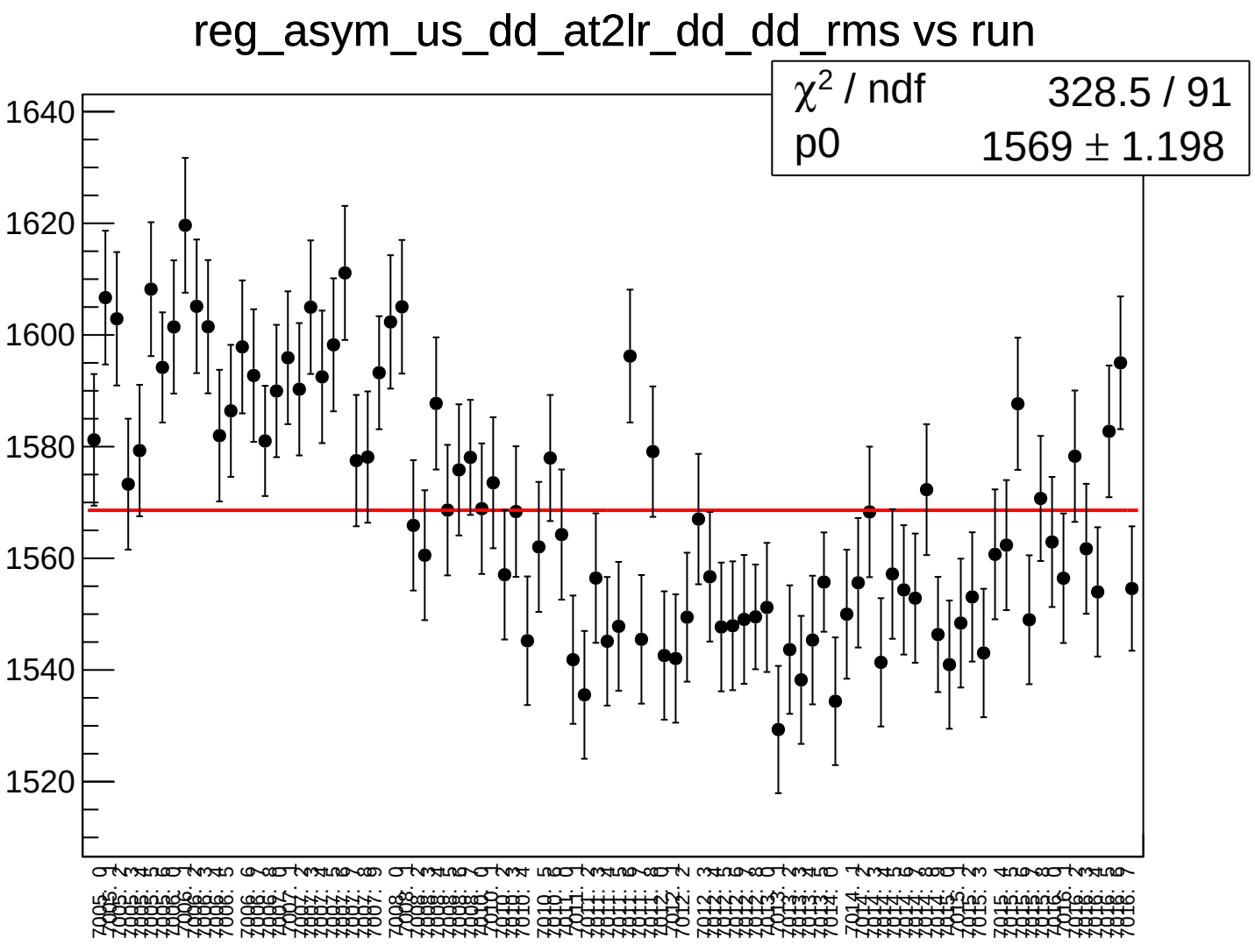

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.37 / 91
p0 −2.152e−14 ± 2.125e−14
pull
Entries 92
Mean 91.15
Std Dev 0

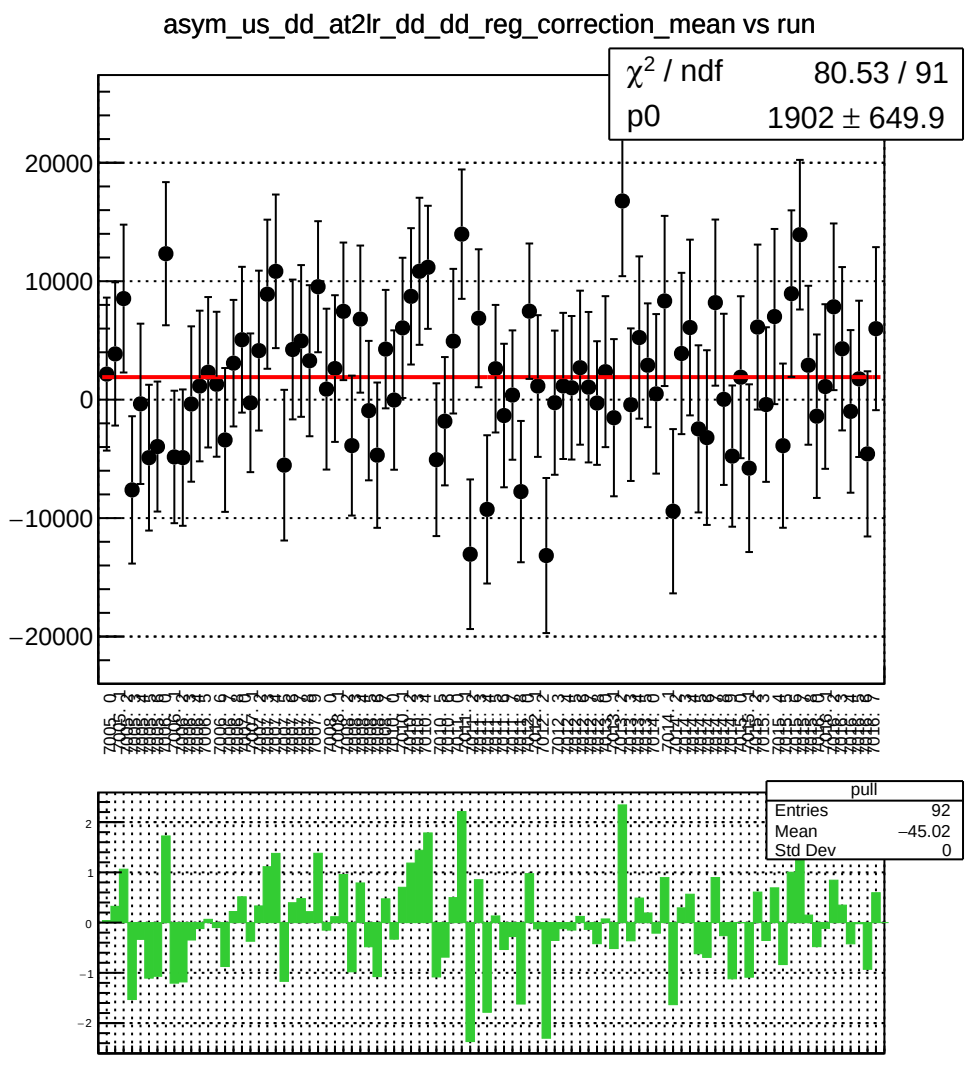

pull1D
Entries 92
Mean −0.02173
Std Dev 0.9402

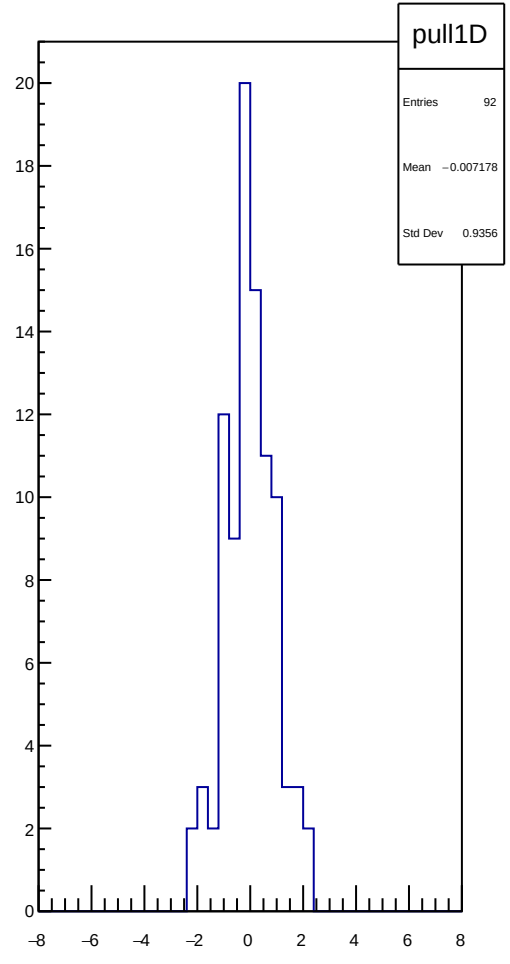

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.44e+05 / 91
p0 1.403e−11 ± 1.503e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

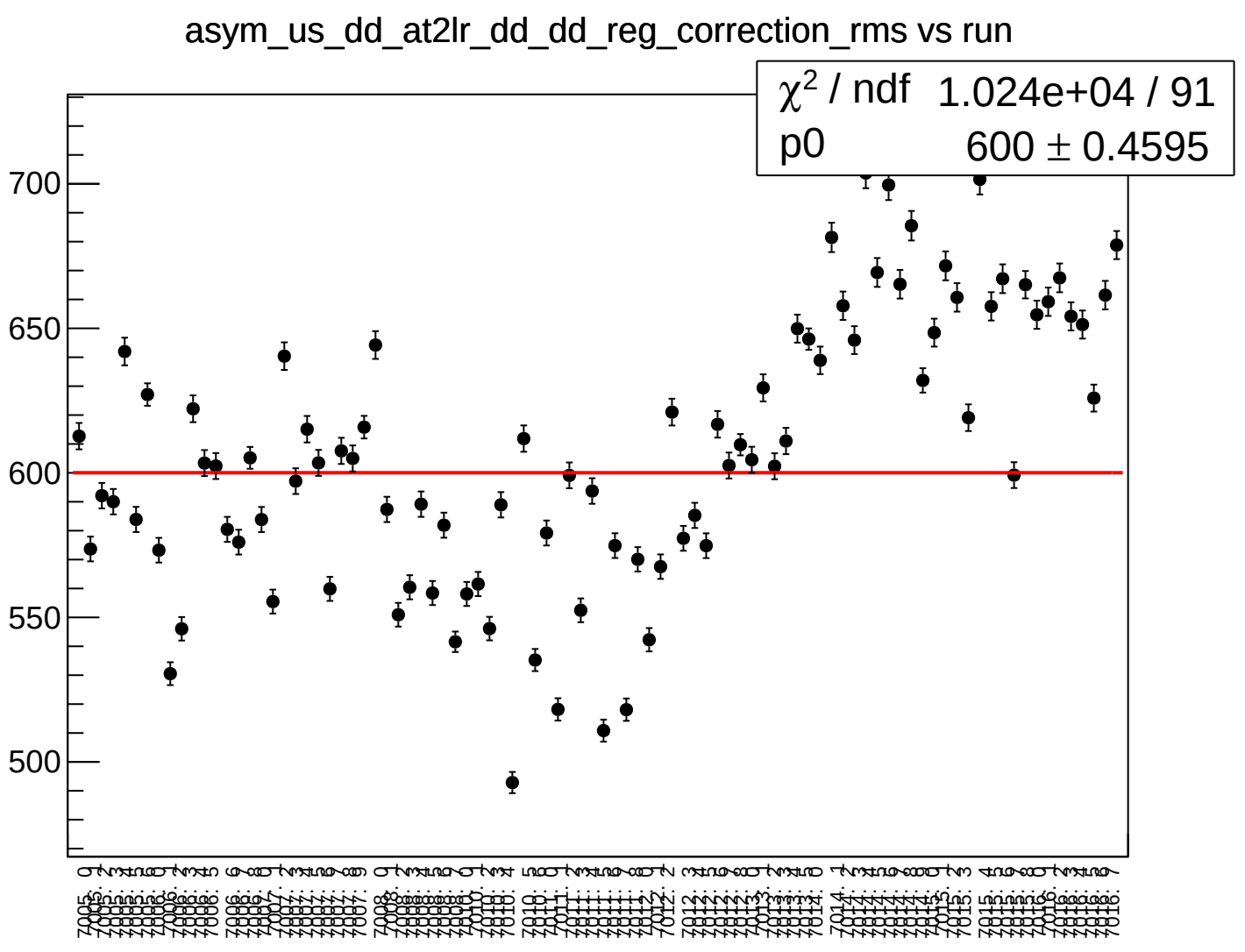

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.15 / 91
p0 −514.1± 1694
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 295.5
Std Dev 0
3
2
1
0
−1
−2

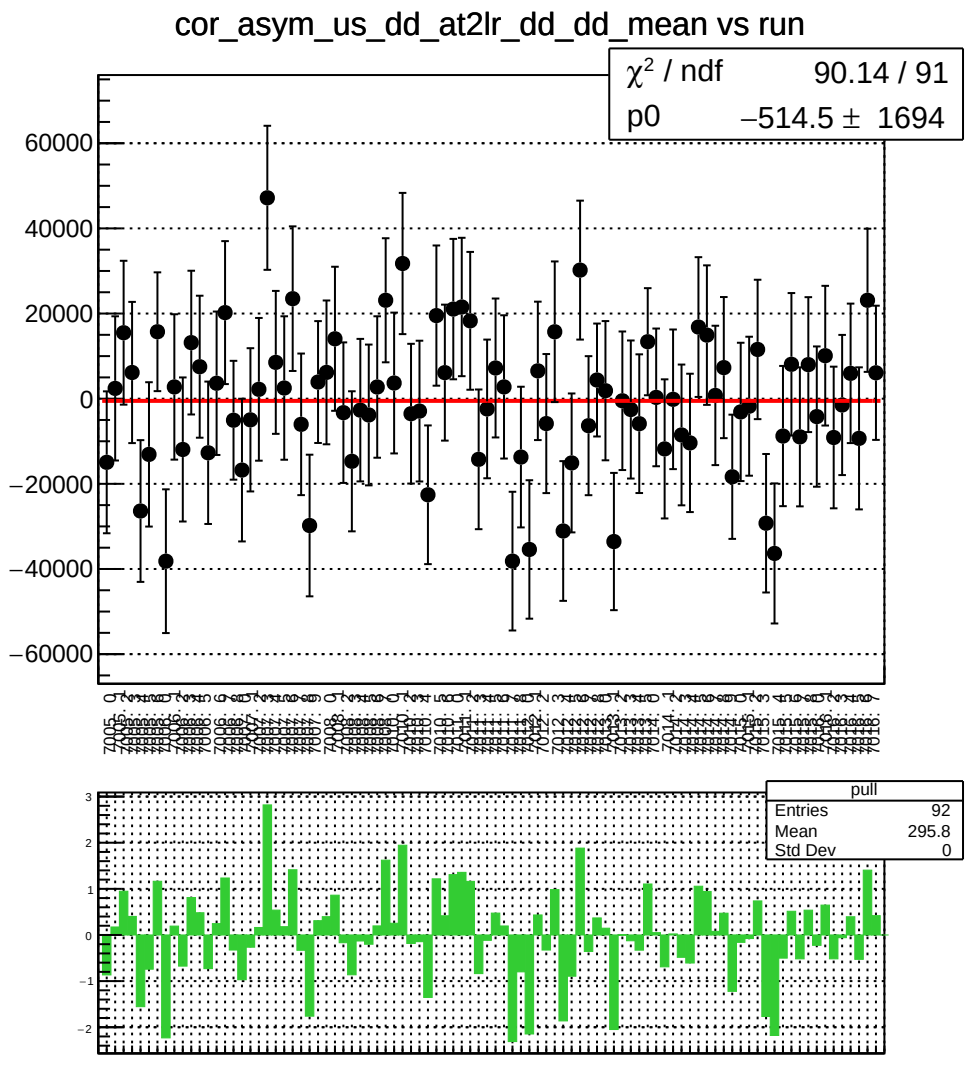

pull1D
Entries 92
Mean −0.005449
Std Dev 0.9899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

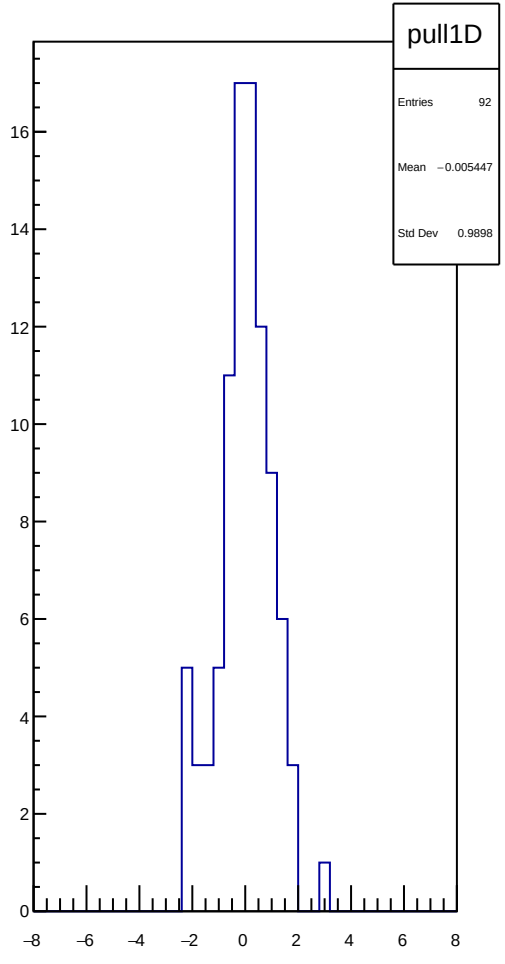

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 328.5 / 91
p0 1569 ± 1.198
1640
1620
1600
1580
1560
1540
1520

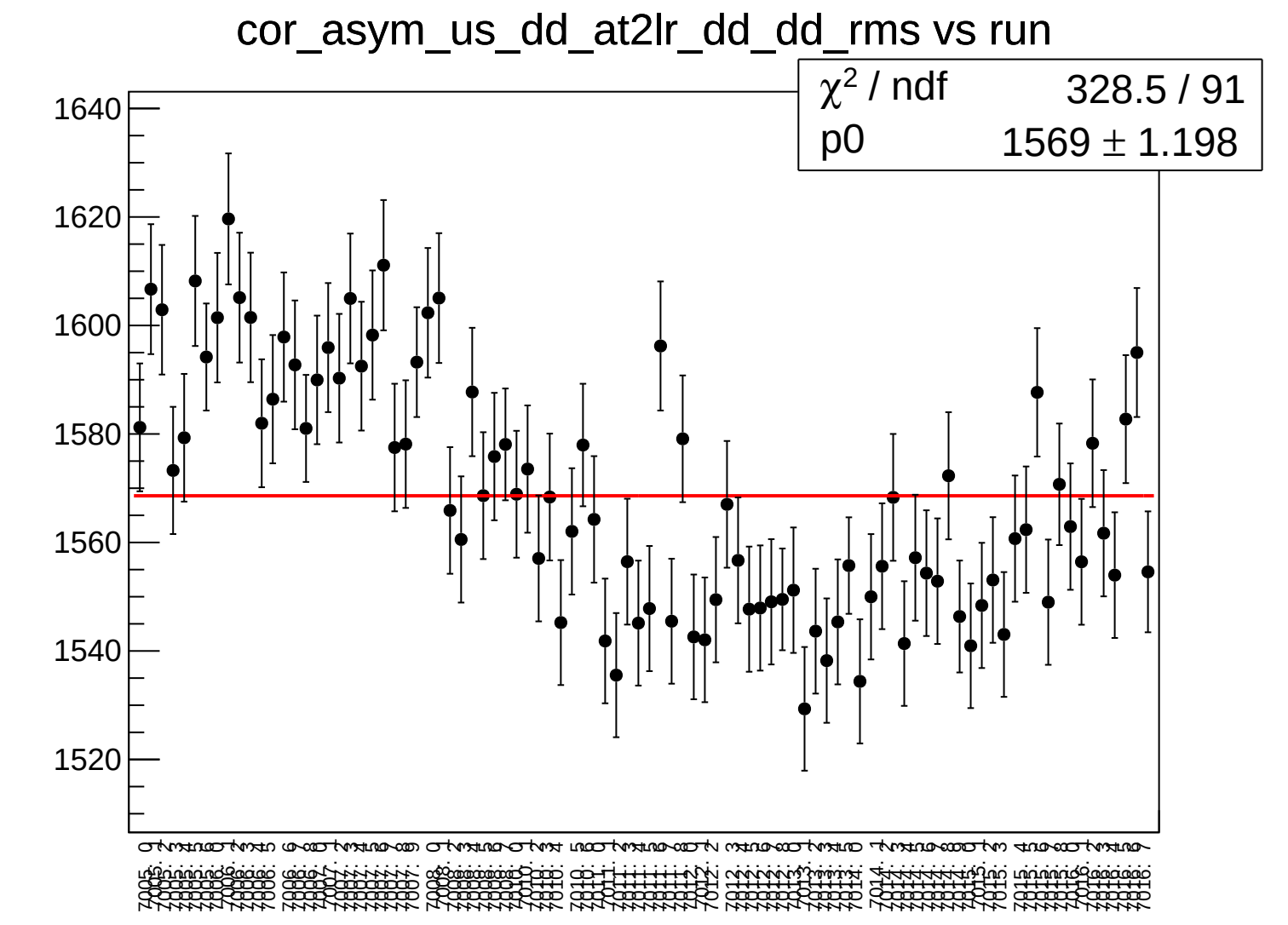

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 80.53 / 91
p0 1902 ± 649.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −45.02
Std Dev 0
2
1
0
−1
−2

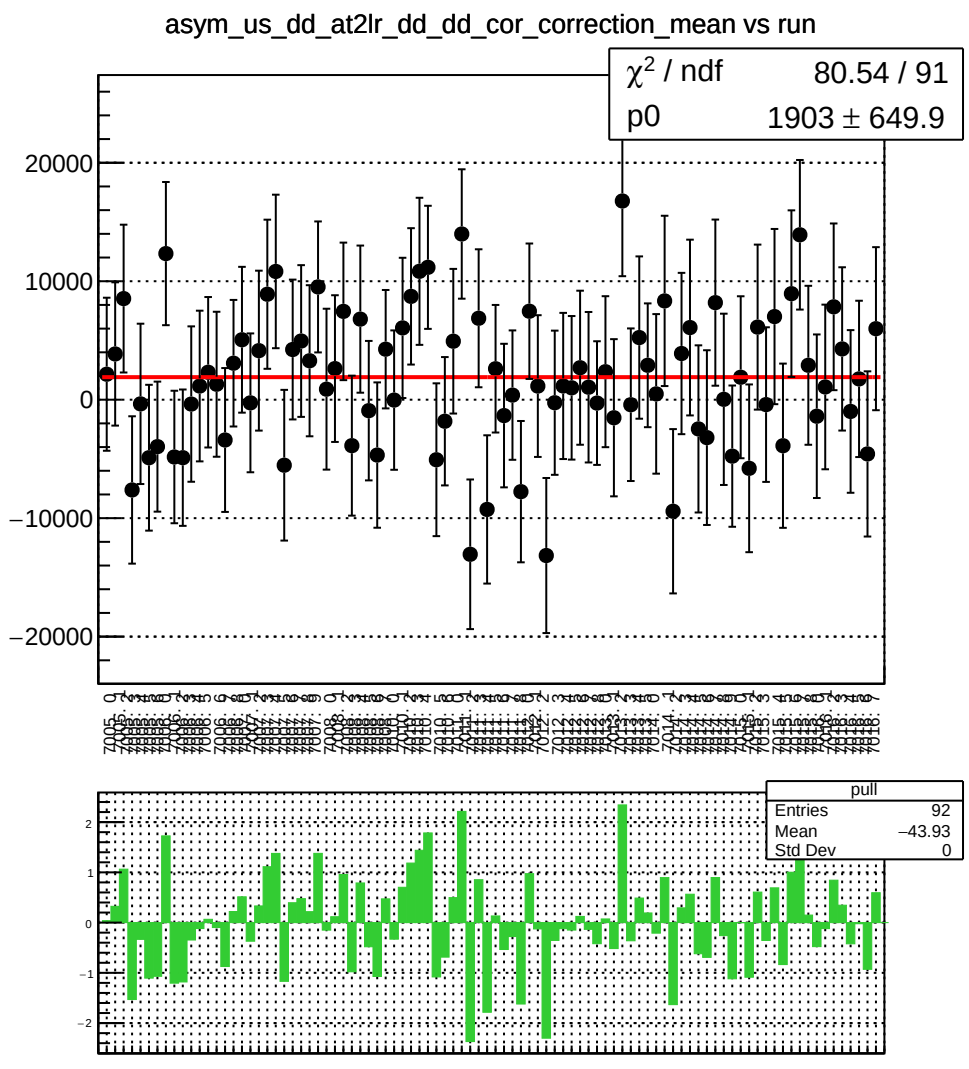

pull1D
Entries 92
Mean −0.007178
Std Dev 0.9356
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

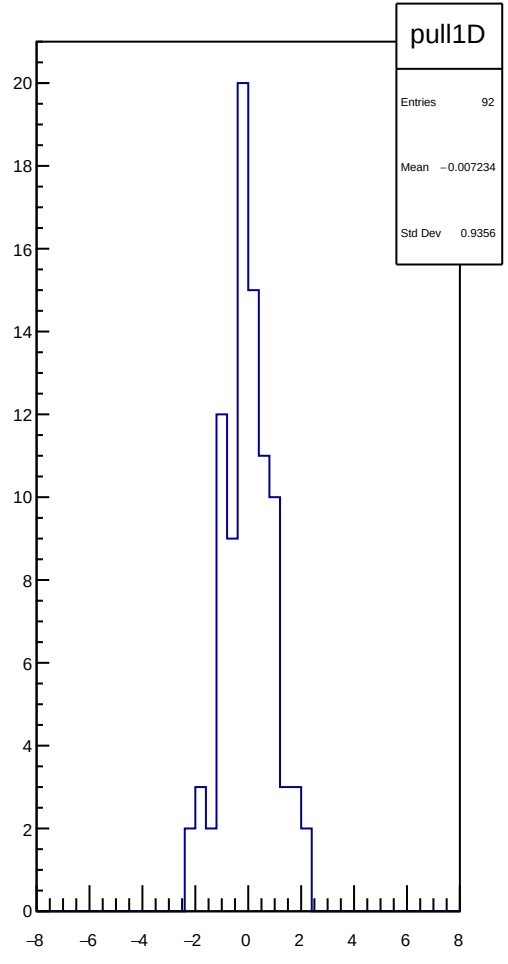

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.024e+04 / 91
p0 600 ± 0.4595
700
650
600
550
500

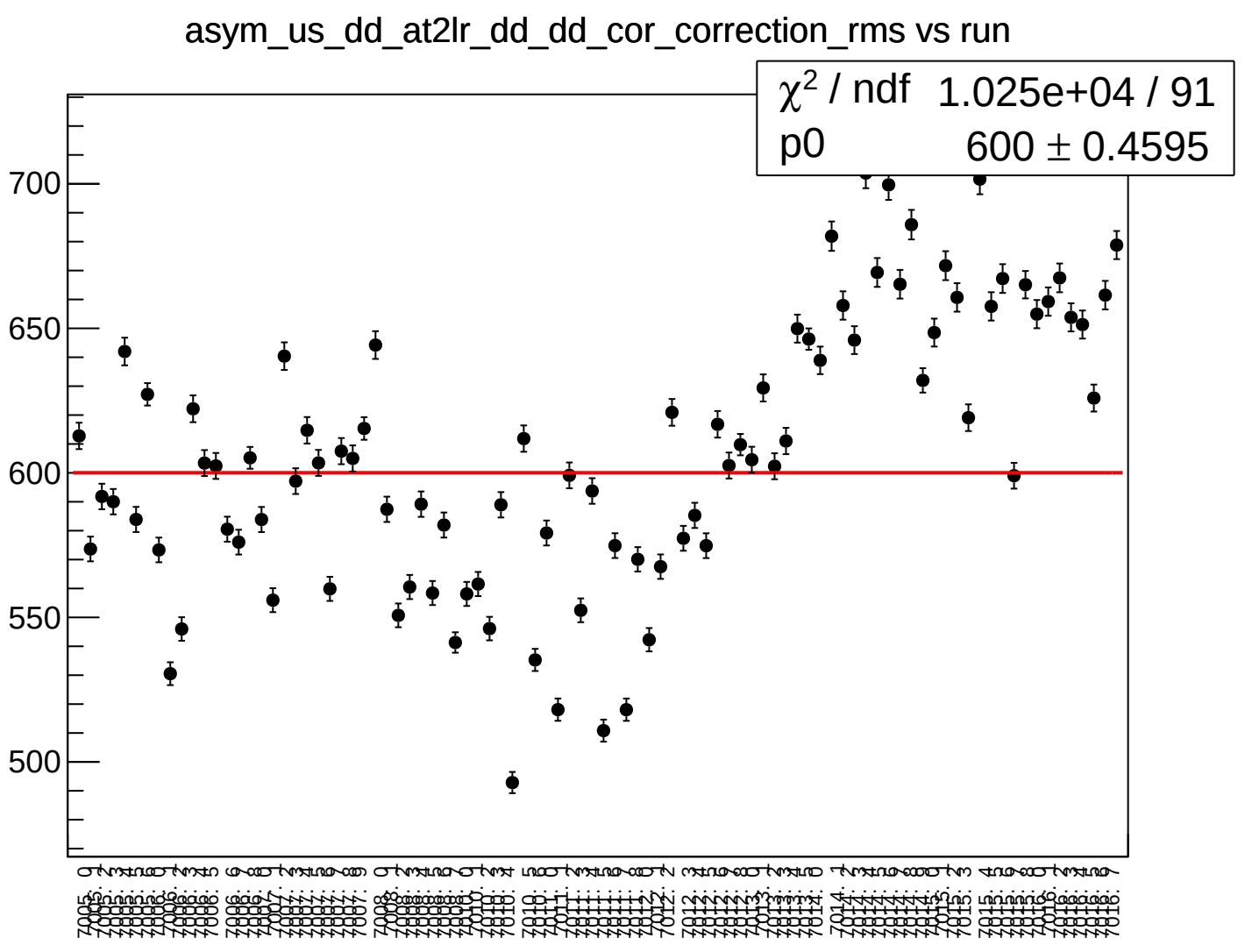

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.14 / 91
p0 −514.5 ± 1694
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 295.8
Std Dev 0
3
2
1
0
−1
−2

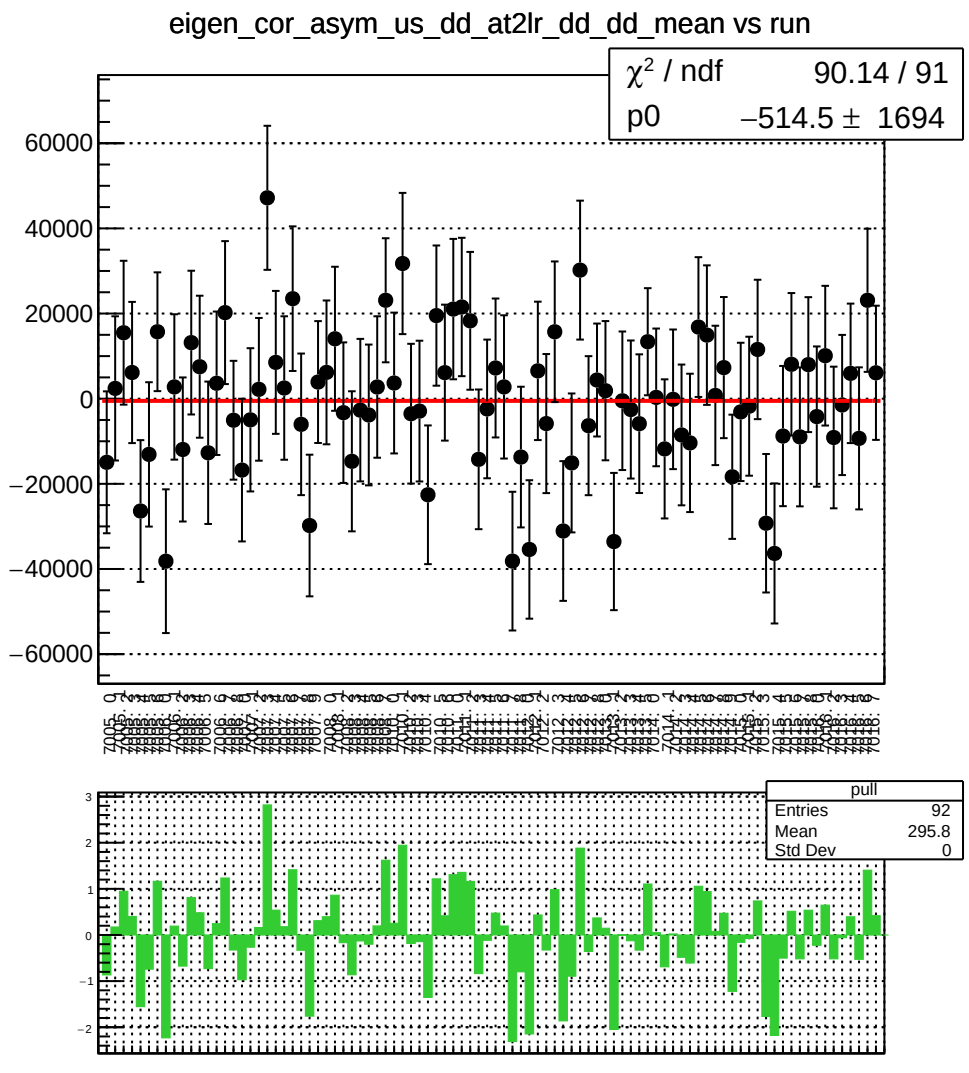

pull1D
Entries 92
Mean −0.005447
Std Dev 0.9898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

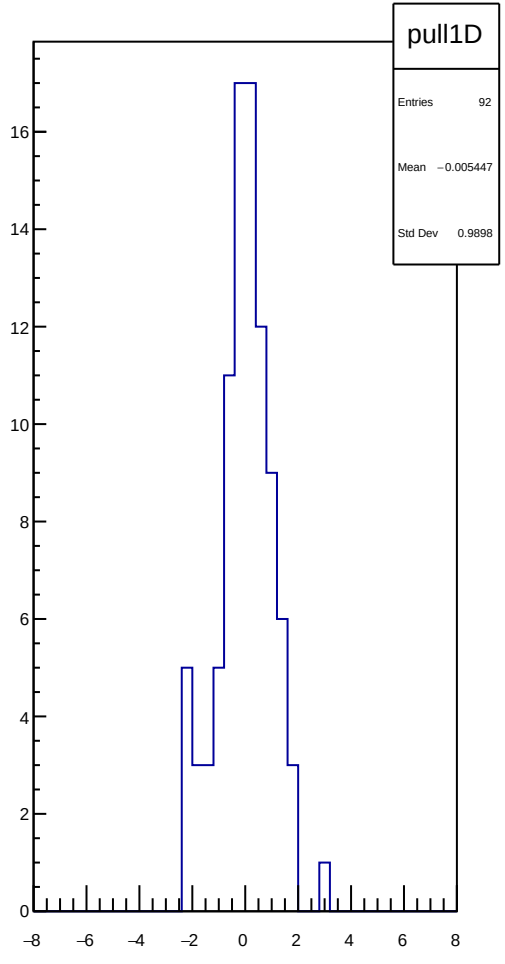

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 328.5 / 91
p0 1569 ± 1.198
1640
1620
1600
1580
1560
1540
1520

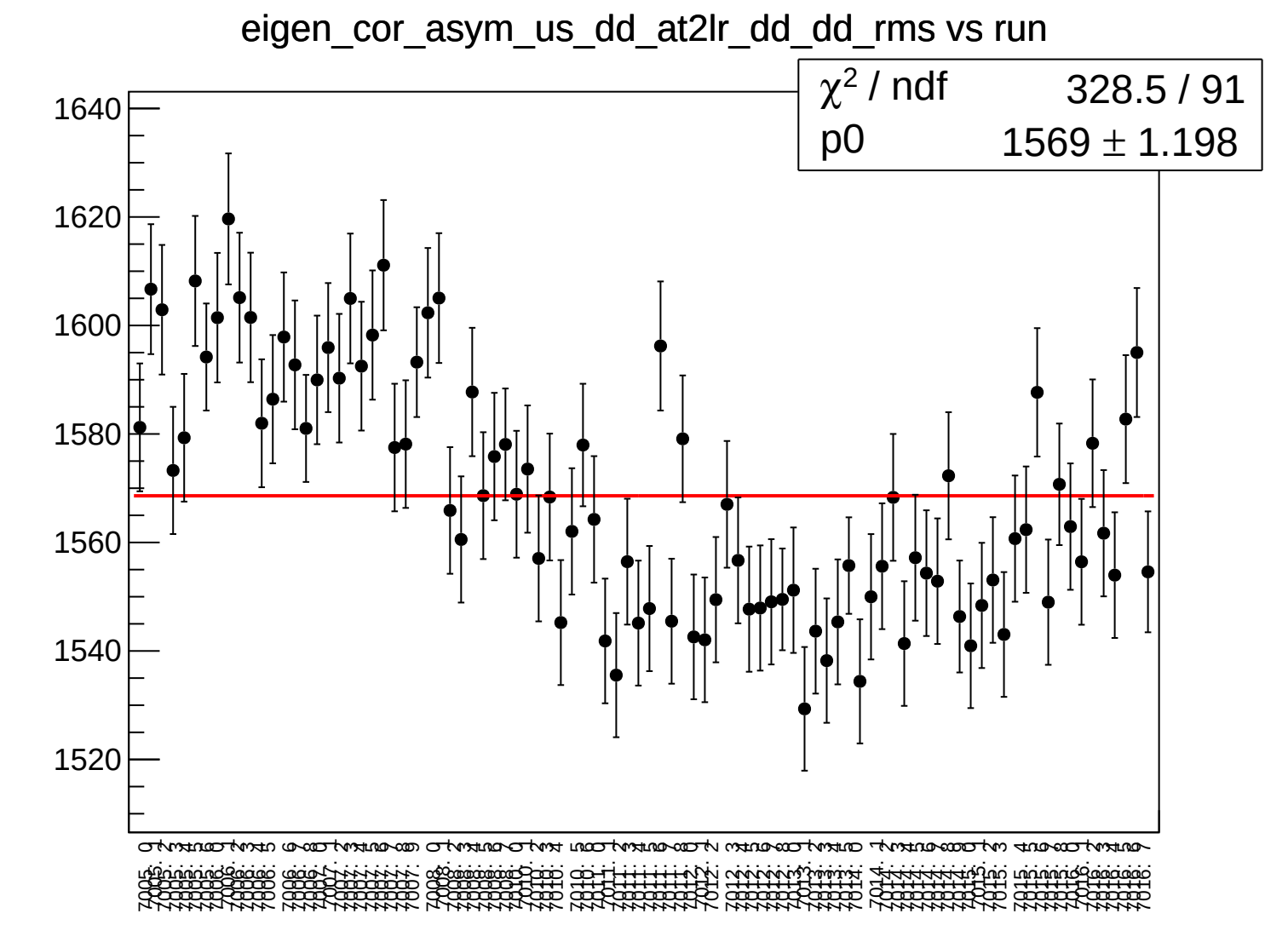

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 80.54 / 91
p0 1903 ± 649.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −43.93
Std Dev 0
2
1
0
−1
−2

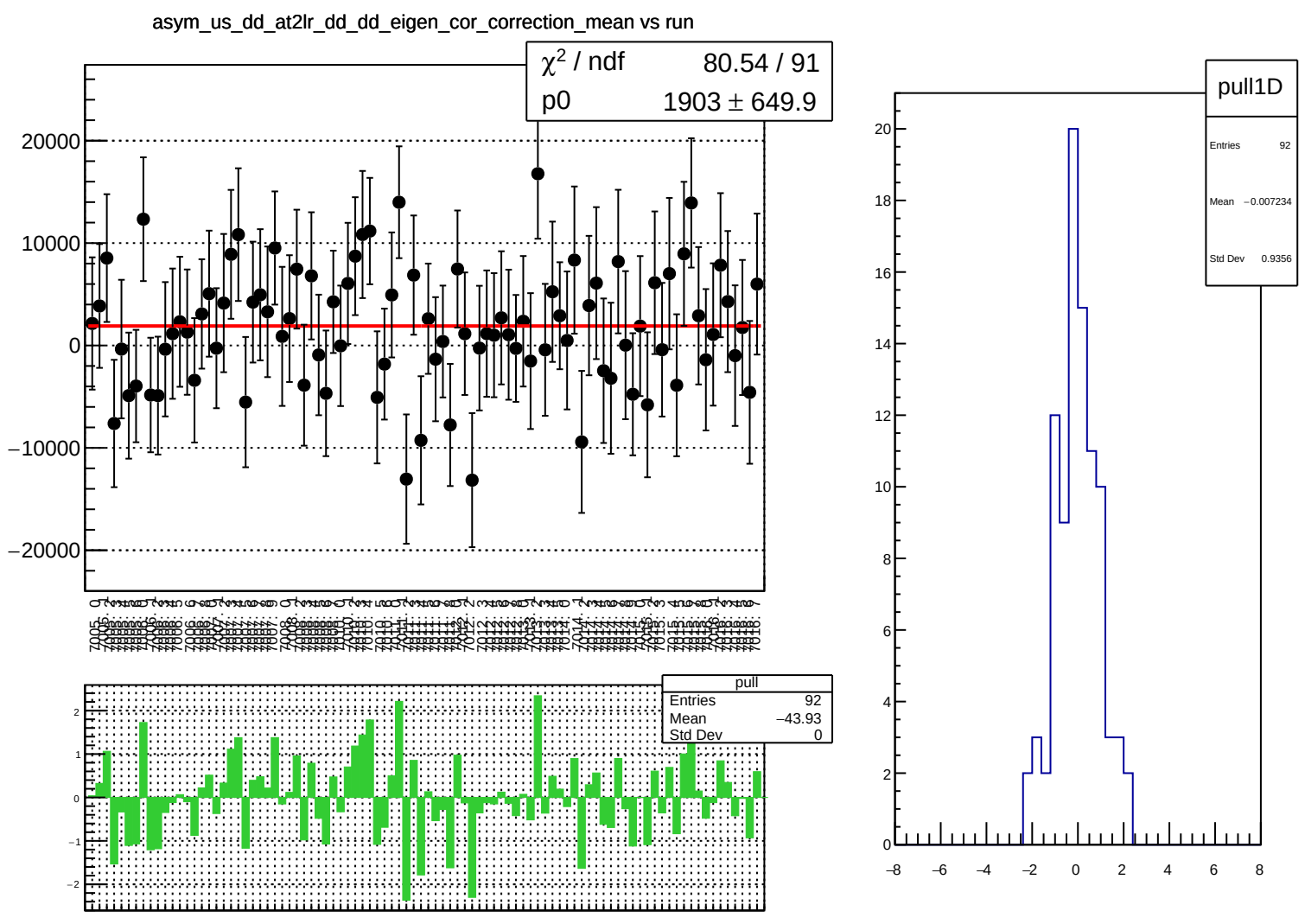

pull1D
Entries 92
Mean −0.007234
Std Dev 0.9356
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

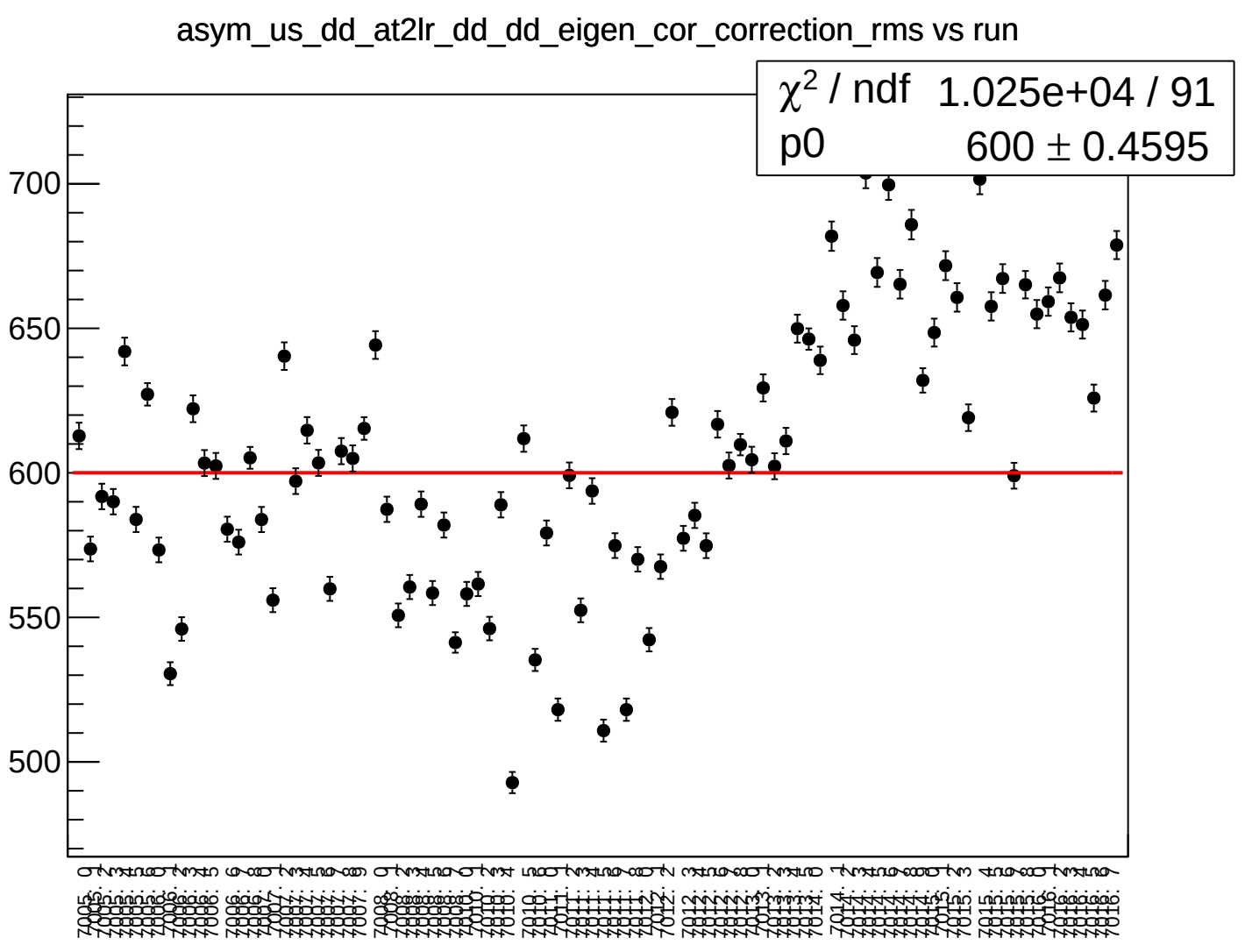

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.025e+04 / 91
p0 600 ± 0.4595
700
650
600
550
500

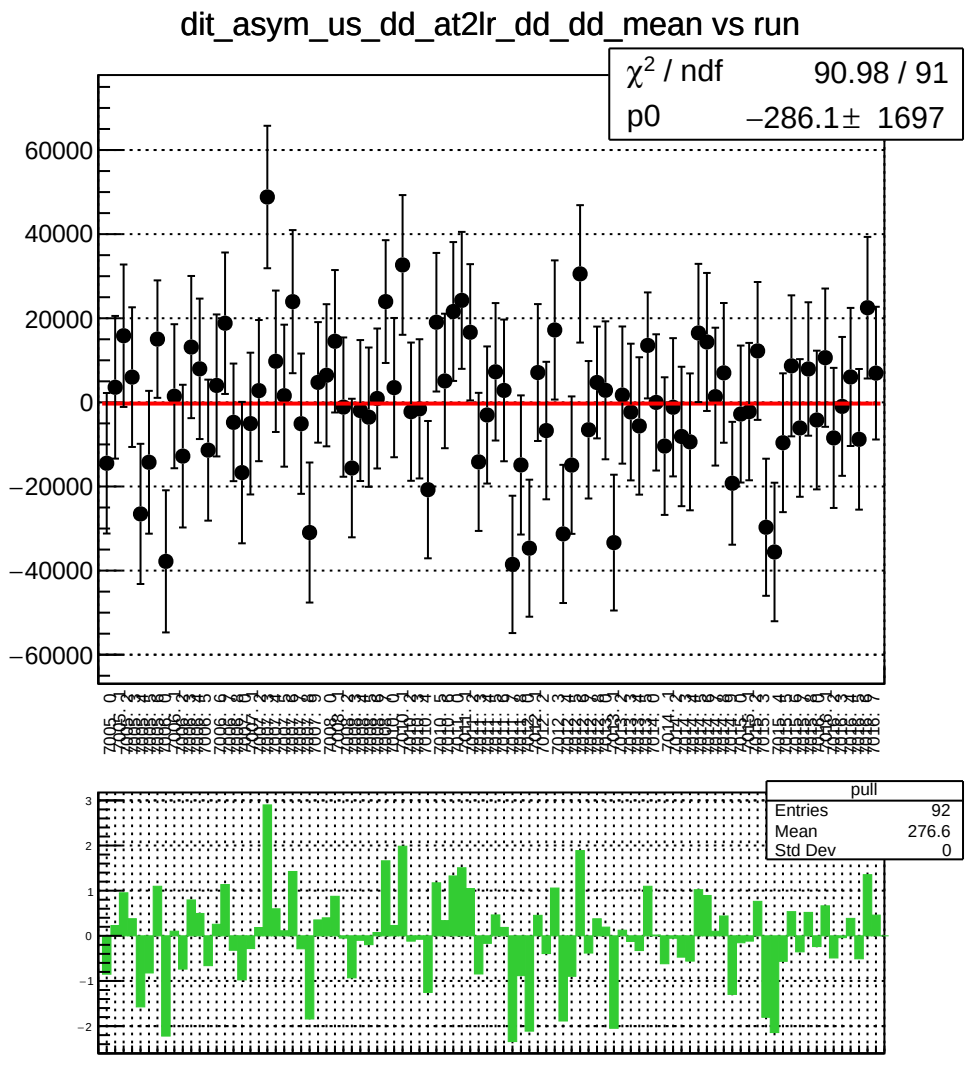

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.14 / 91
p0 −514.5 ± 1694
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 295.8
Std Dev 0
3
2
1
0
−1
−2

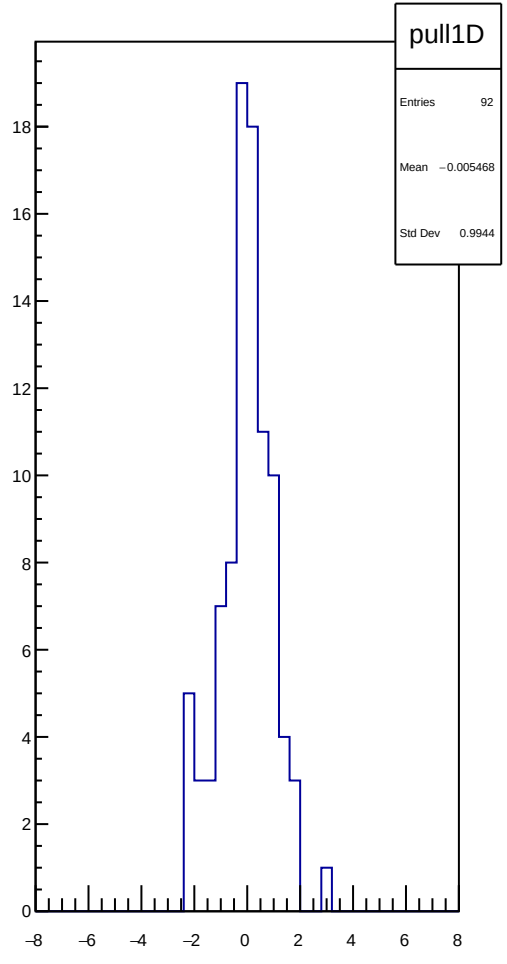

pull1D
Entries 92
Mean −0.005447
Std Dev 0.9898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

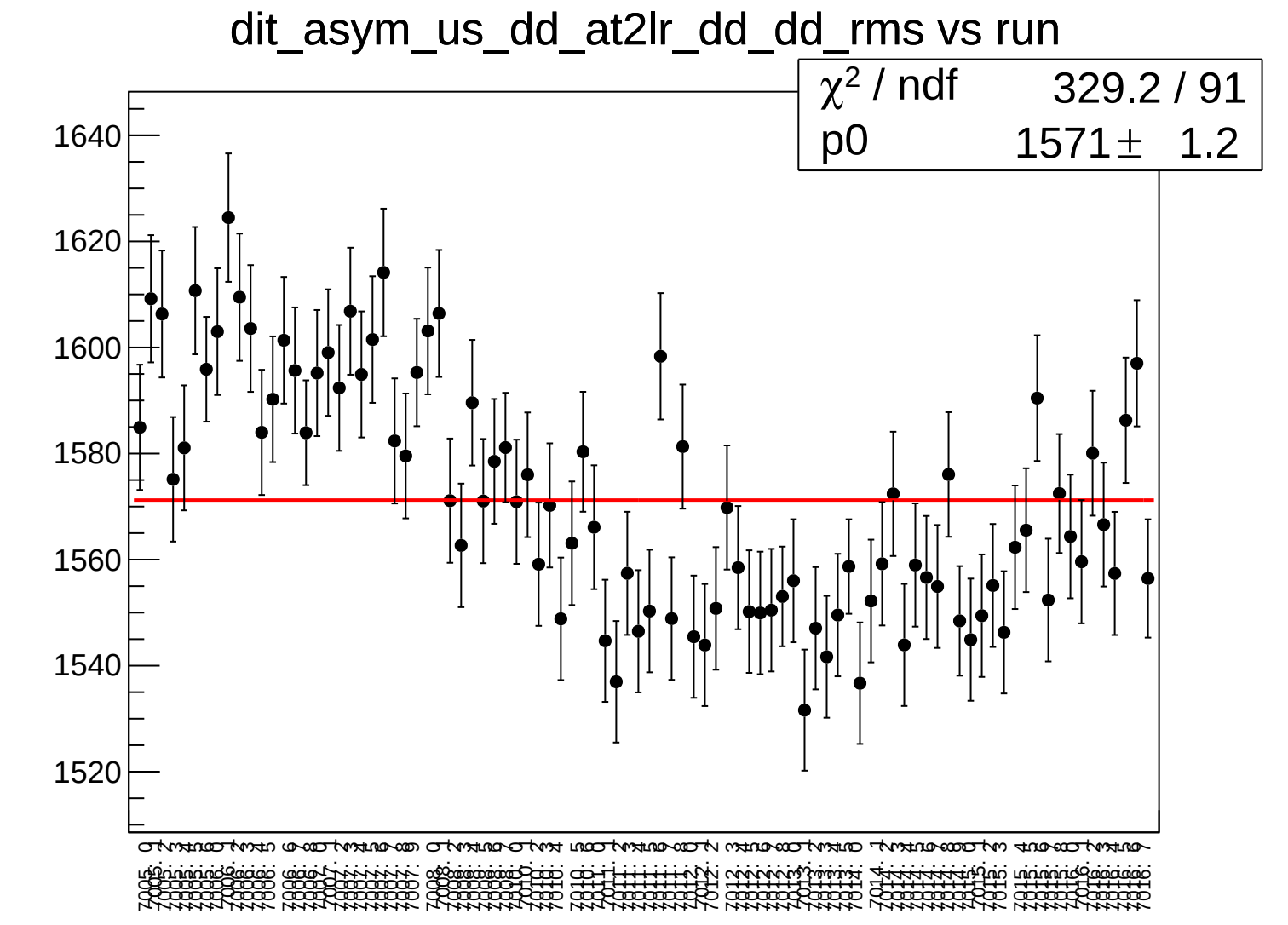

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 328.5 / 91
p0 1569 ± 1.198
1640
1620
1600
1580
1560
1540
1520

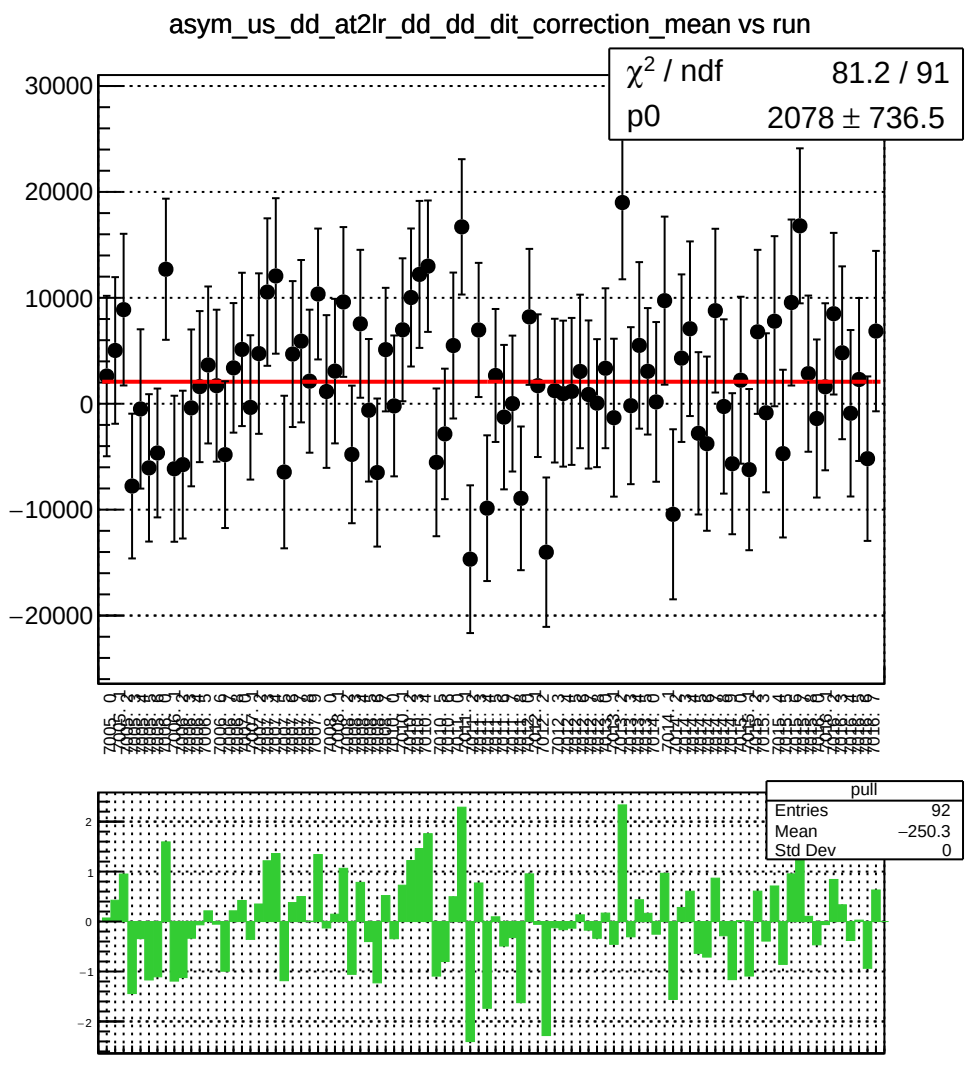

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.54 / 91
p0 1903 ± 649.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −43.93
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.007234
Std Dev 0.9356
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

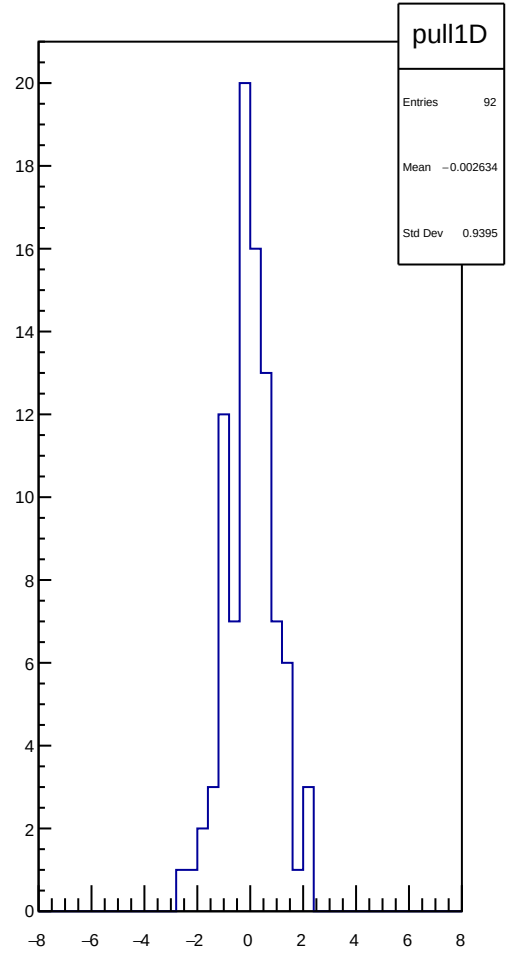

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.025e+04 / 91
p0 600 ± 0.4595
700
650
600
550
500

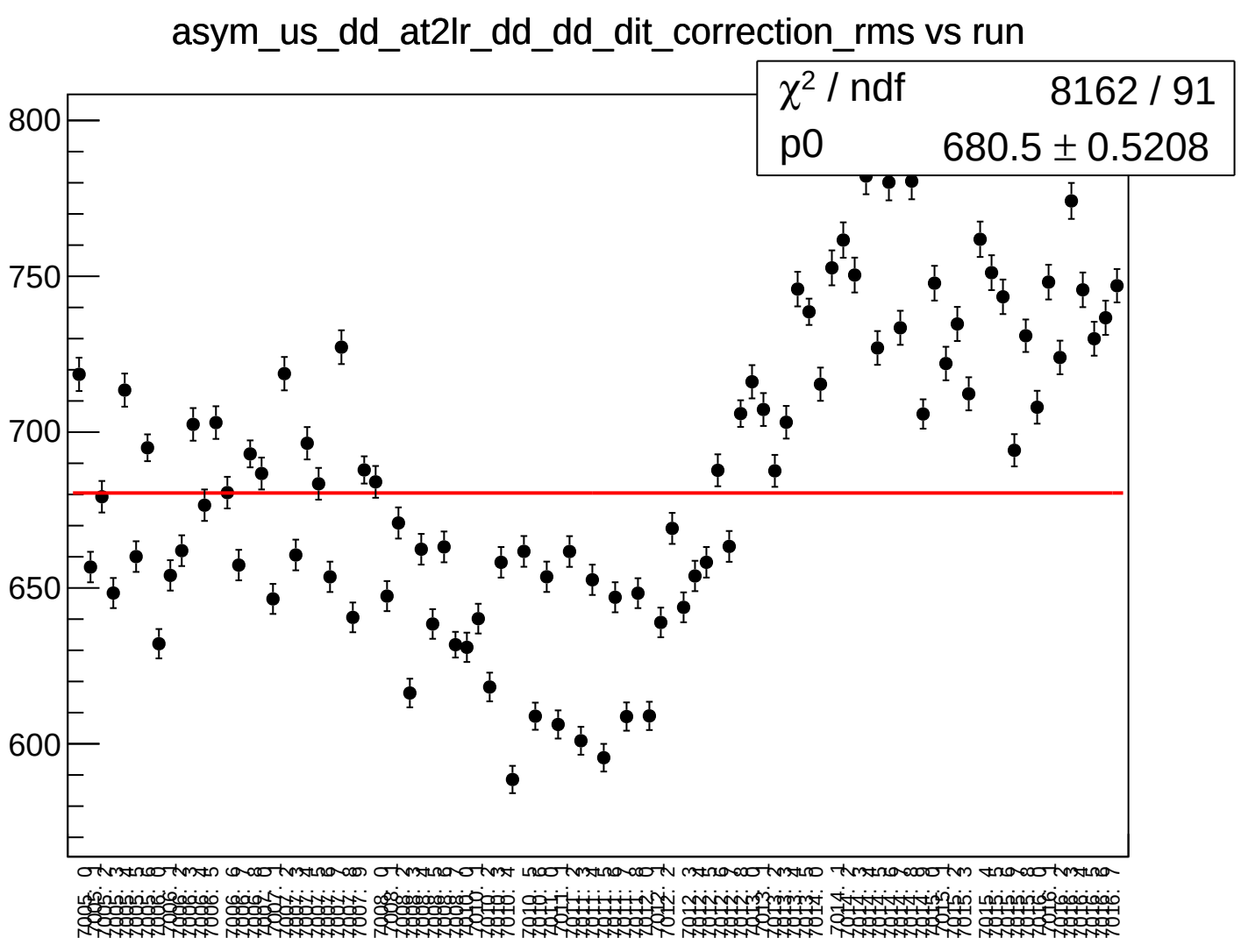

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.98 / 91
p0 −286.1± 1697
pull
Entries 92
Mean 276.6
Std Dev 0

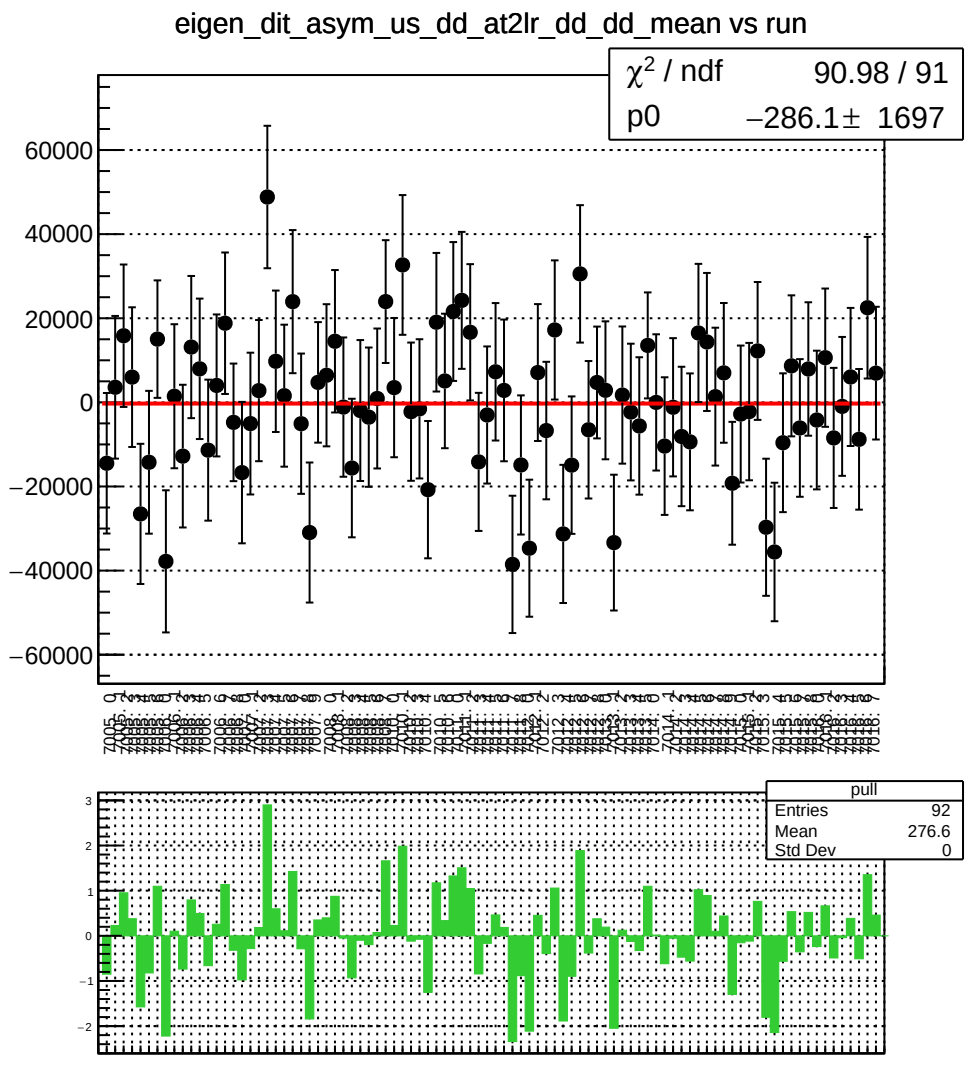

pull1D
Entries 92
Mean −0.005468
Std Dev 0.9944

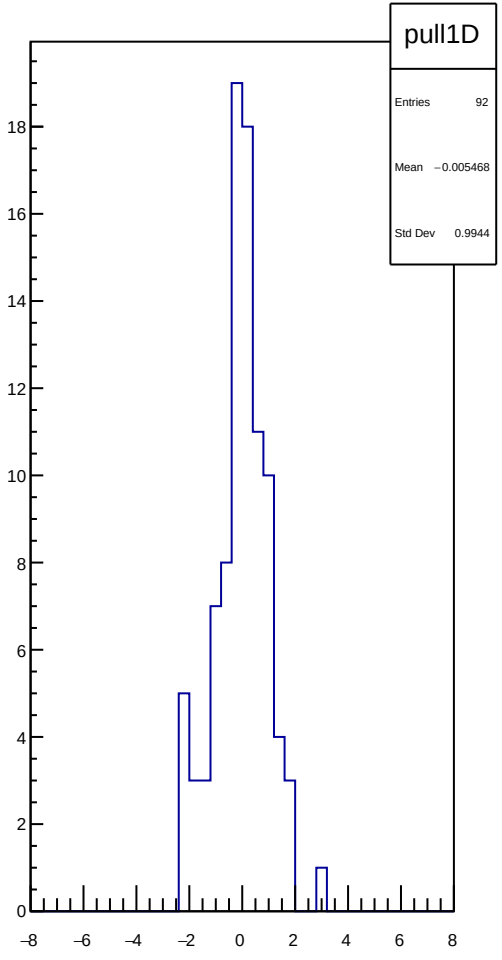

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 329.2 / 91
p0 1571 ± 1.2
1640
1620
1600
1580
1560
1540
1520

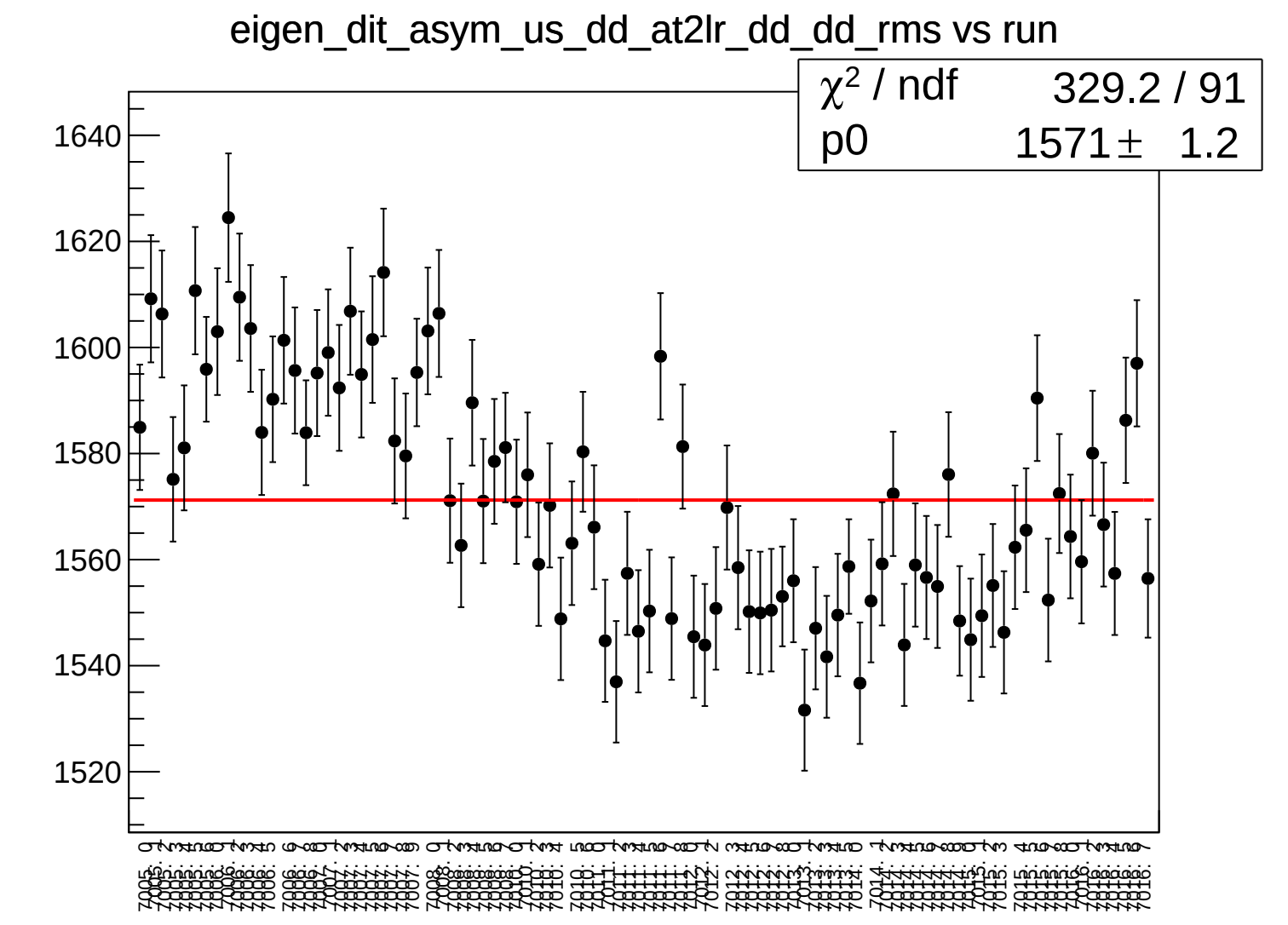

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 81.2 / 91
p0 2078 ± 736.5
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −250.3
Std Dev 0
2
1
0
−1
−2

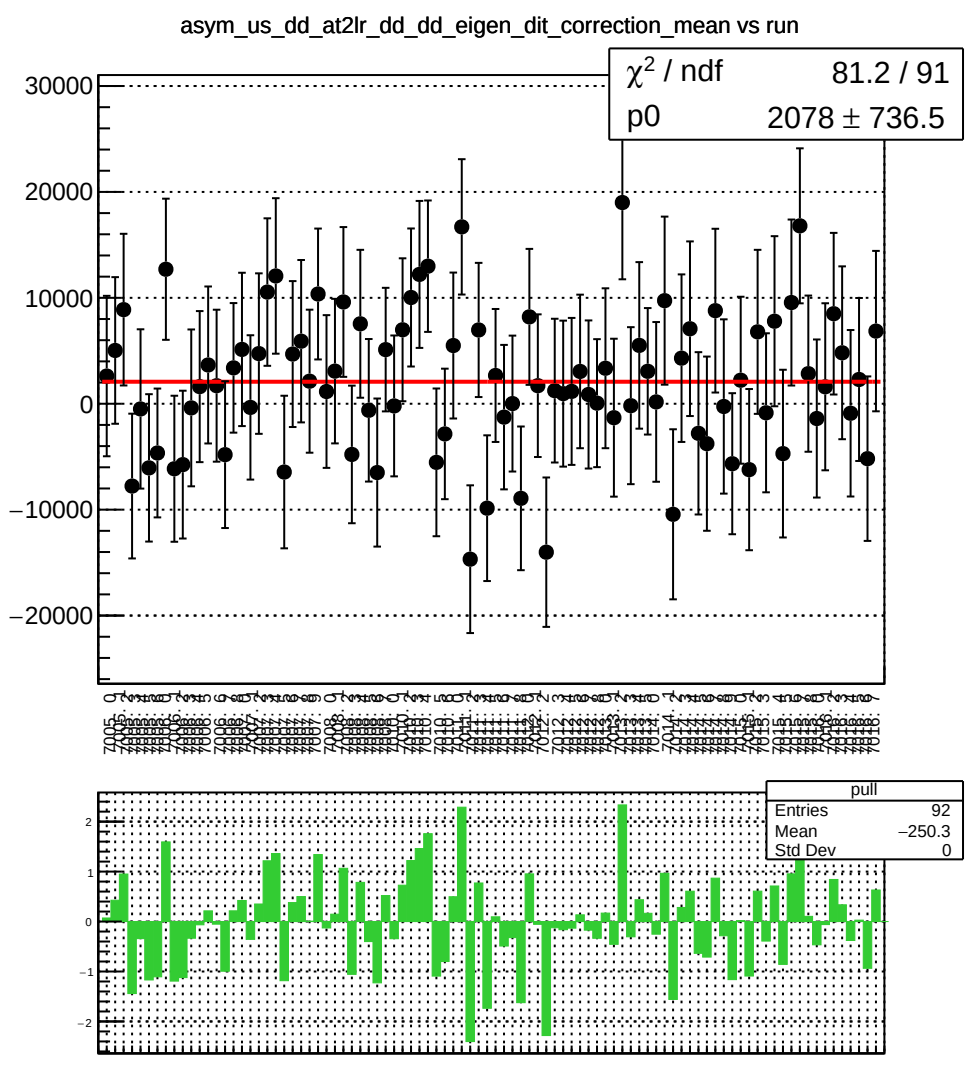

pull1D
Entries 92
Mean −0.002634
Std Dev 0.9395
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

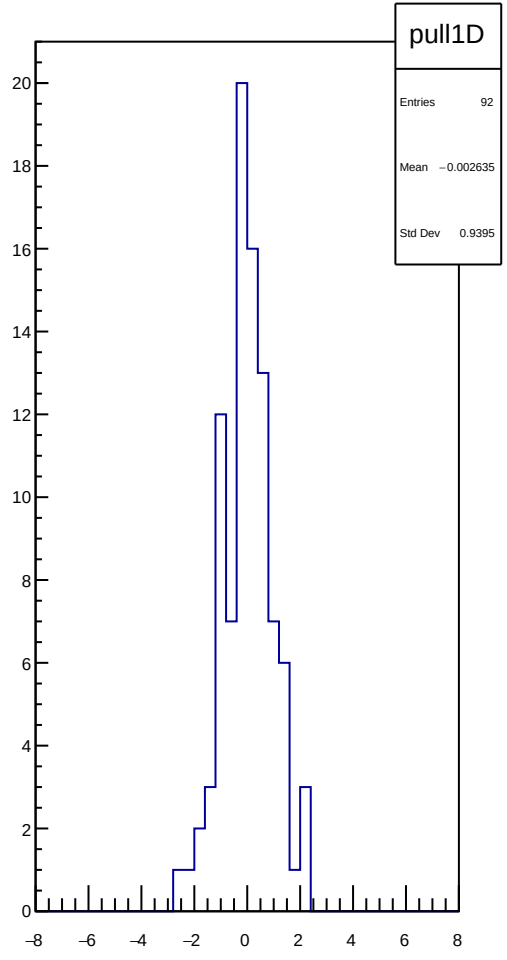

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 8162 / 91
p0 680.5 ± 0.5208
800
750
700
650
600

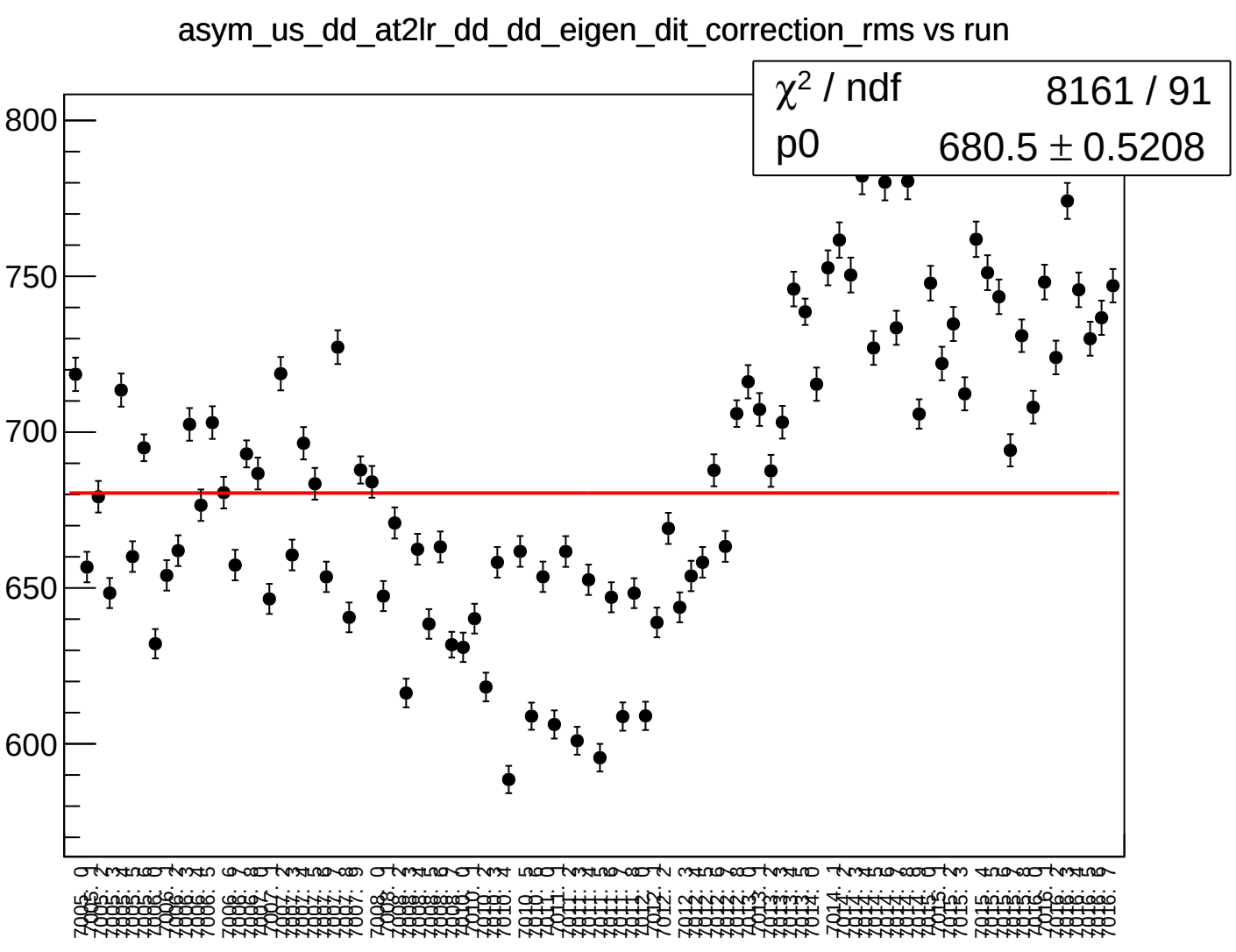

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 90.98 / 91
p0 −286.1± 1697
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 276.6
Std Dev 0
3
2
1
0
−1
−2

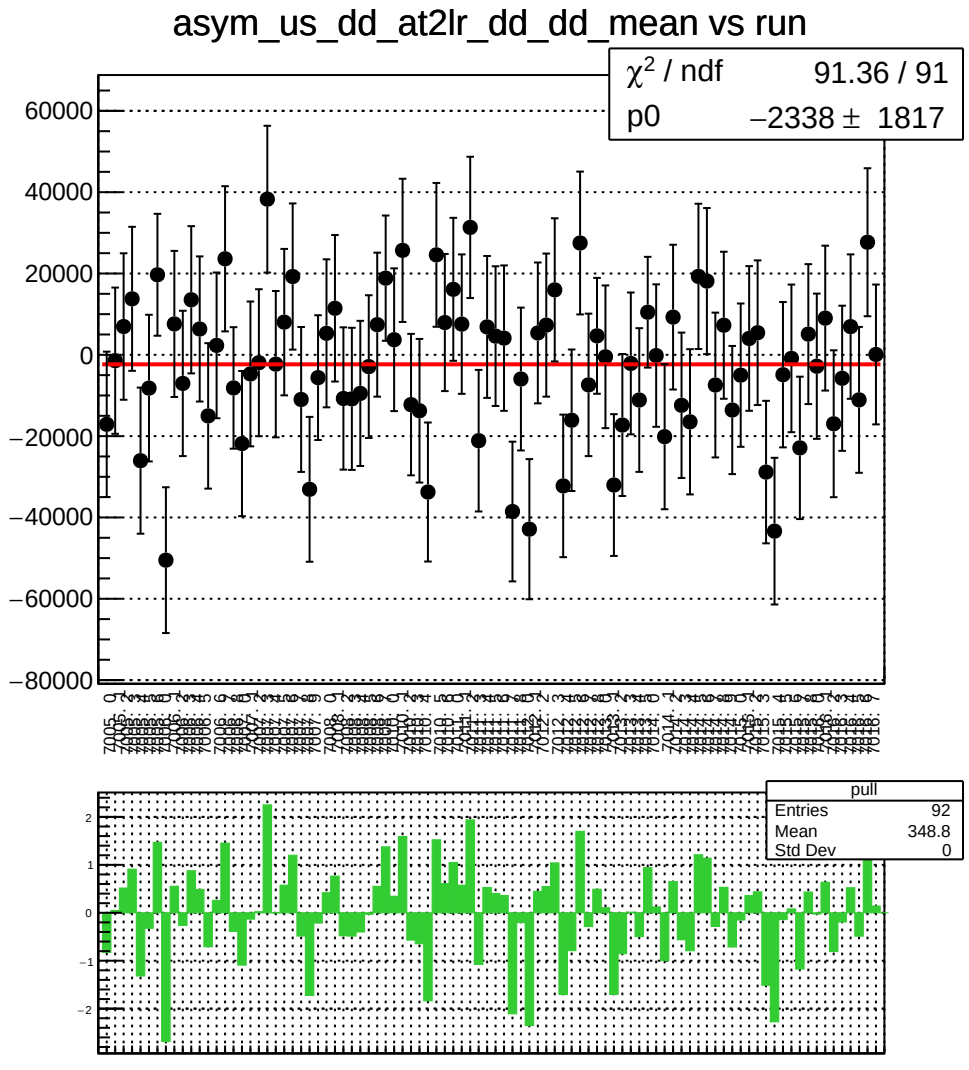

pull1D
Entries 92
Mean −0.005468
Std Dev 0.9944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

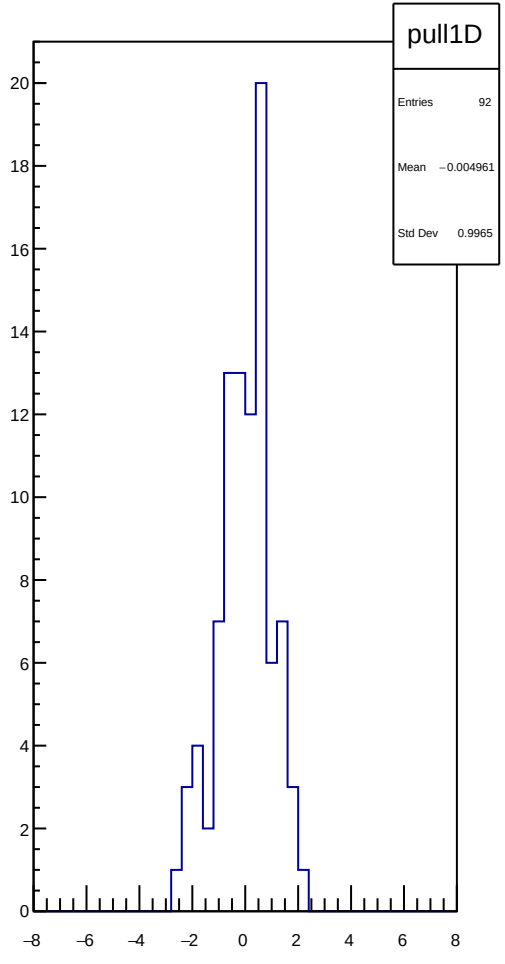

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 329.2 / 91
p0 1571 ± 1.2
1640
1620
1600
1580
1560
1540
1520

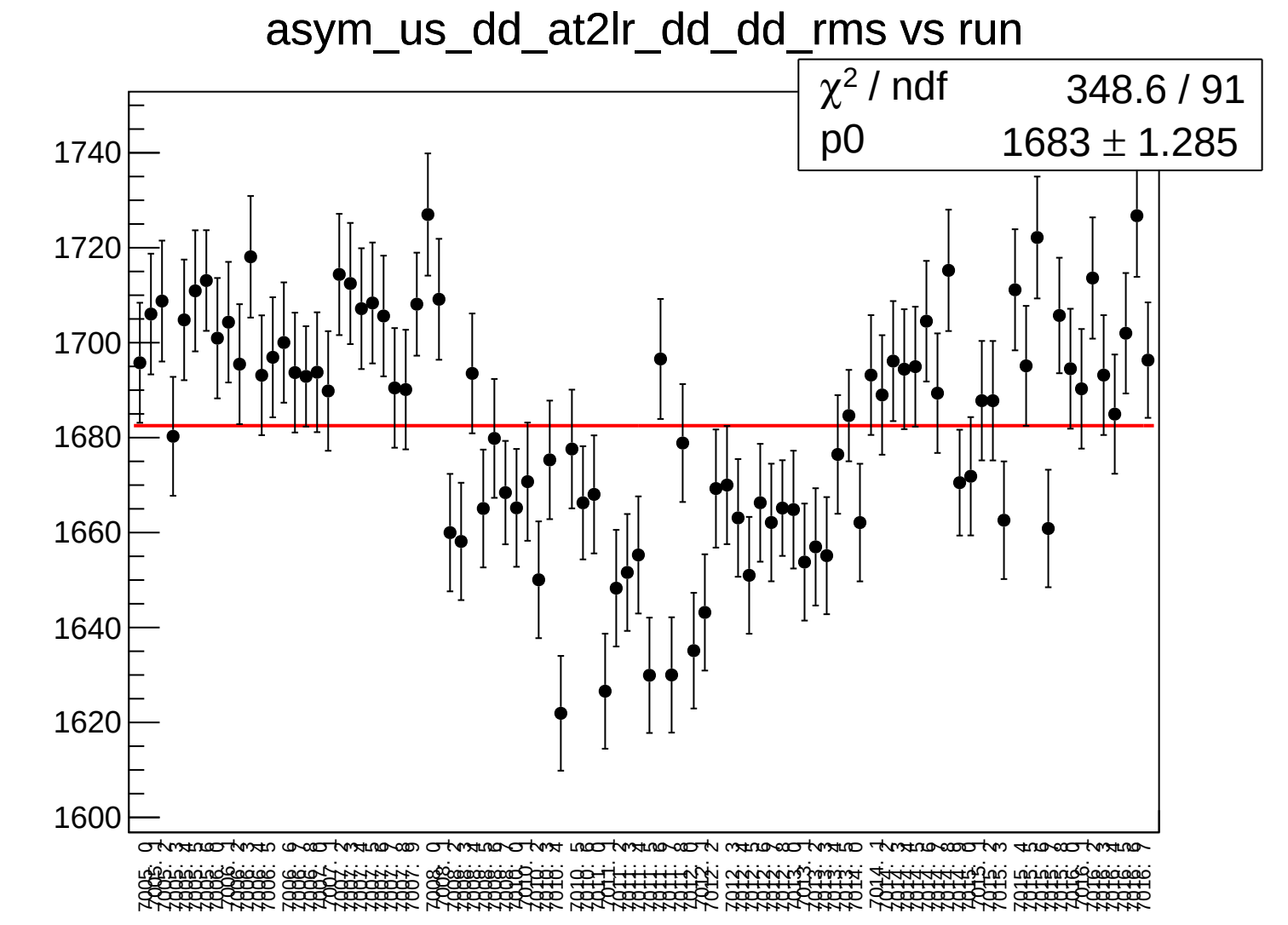

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.2 / 91
p0 2078 ± 736.5
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −250.3
Std Dev 0
2
1
0
−1
−2

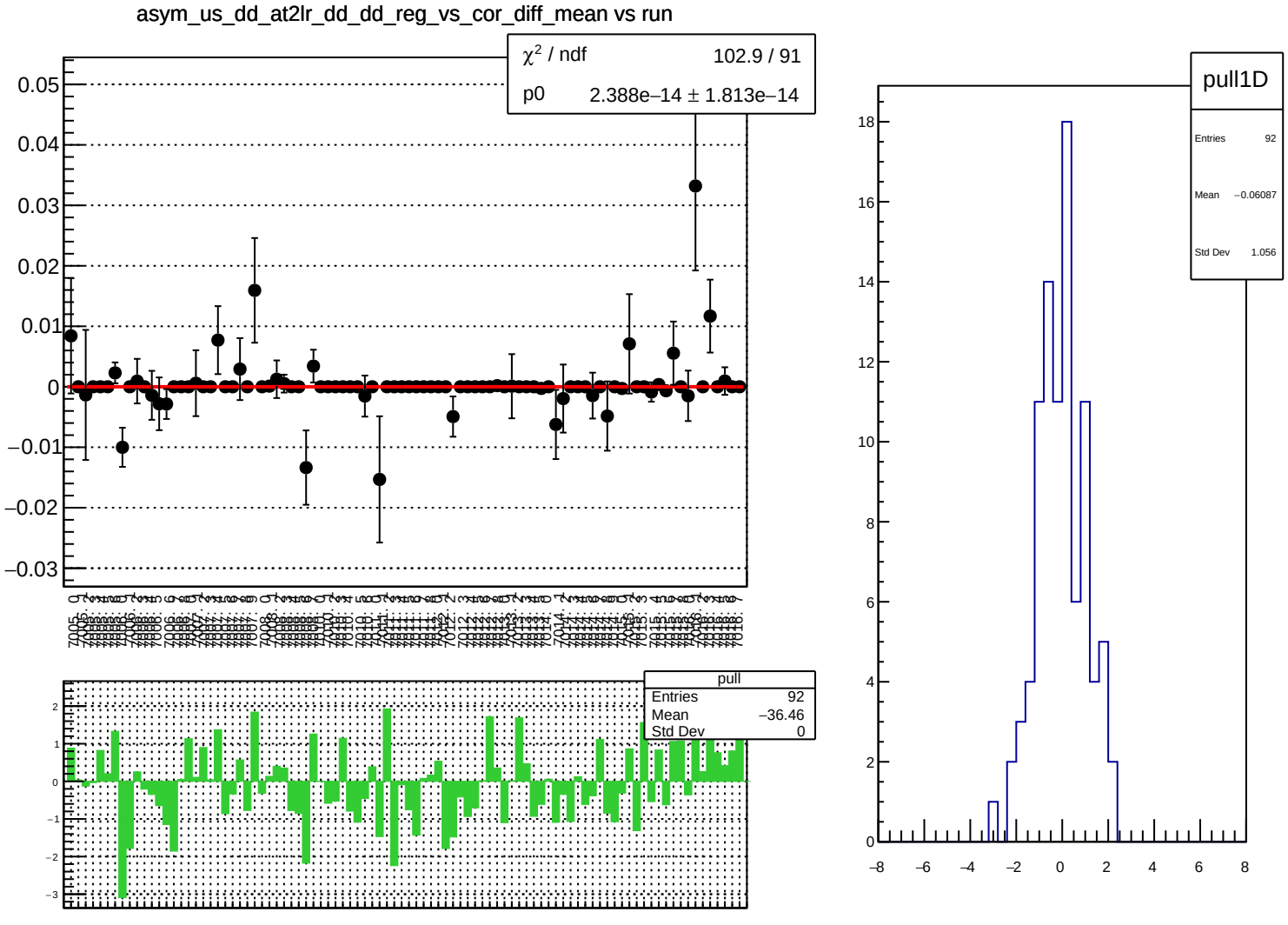

pull1D
Entries 92
Mean −0.002635
Std Dev 0.9395
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

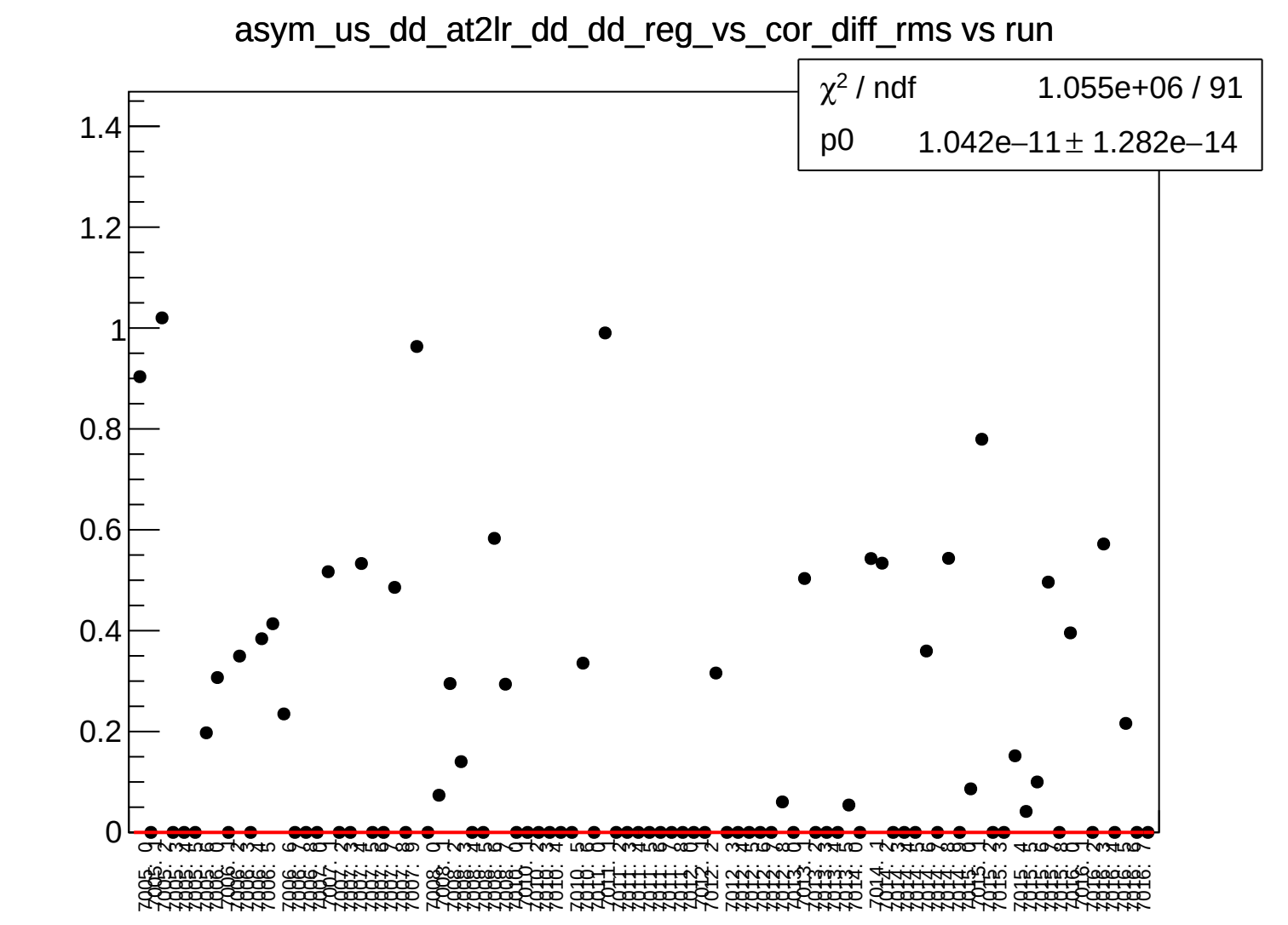

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8161 / 91
p0 680.5 ± 0.5208
800
750
700
650
600

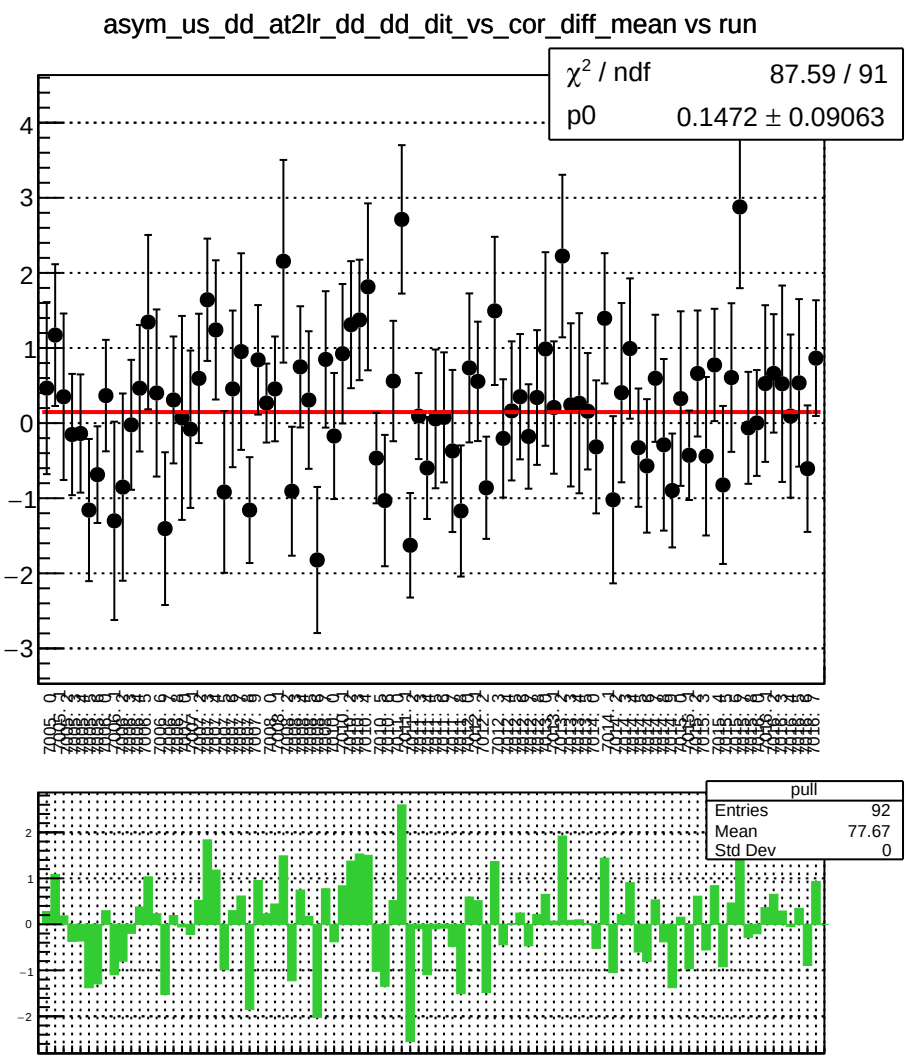

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 91.36 / 91
p0 −2338 ± 1817
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 348.8
Std Dev 0
2
1
0
−1
−2

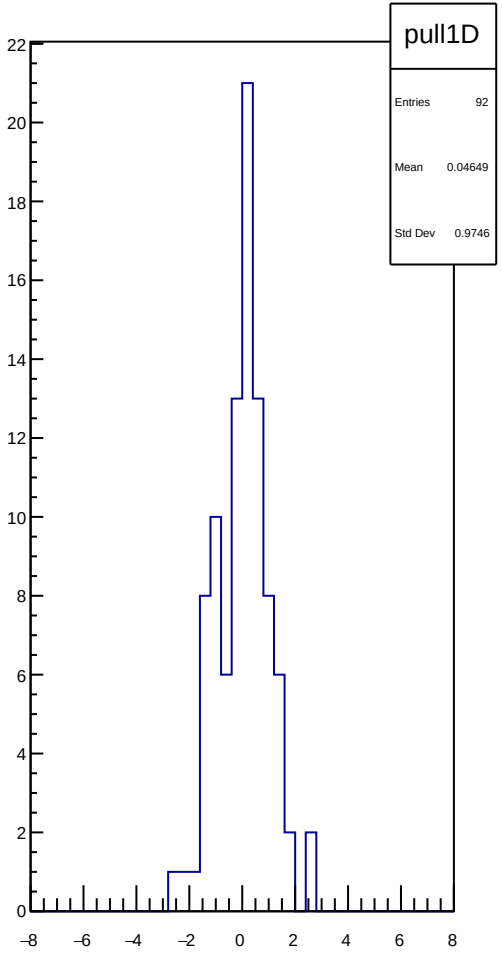

pull1D
Entries 92
Mean −0.004961
Std Dev 0.9965
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

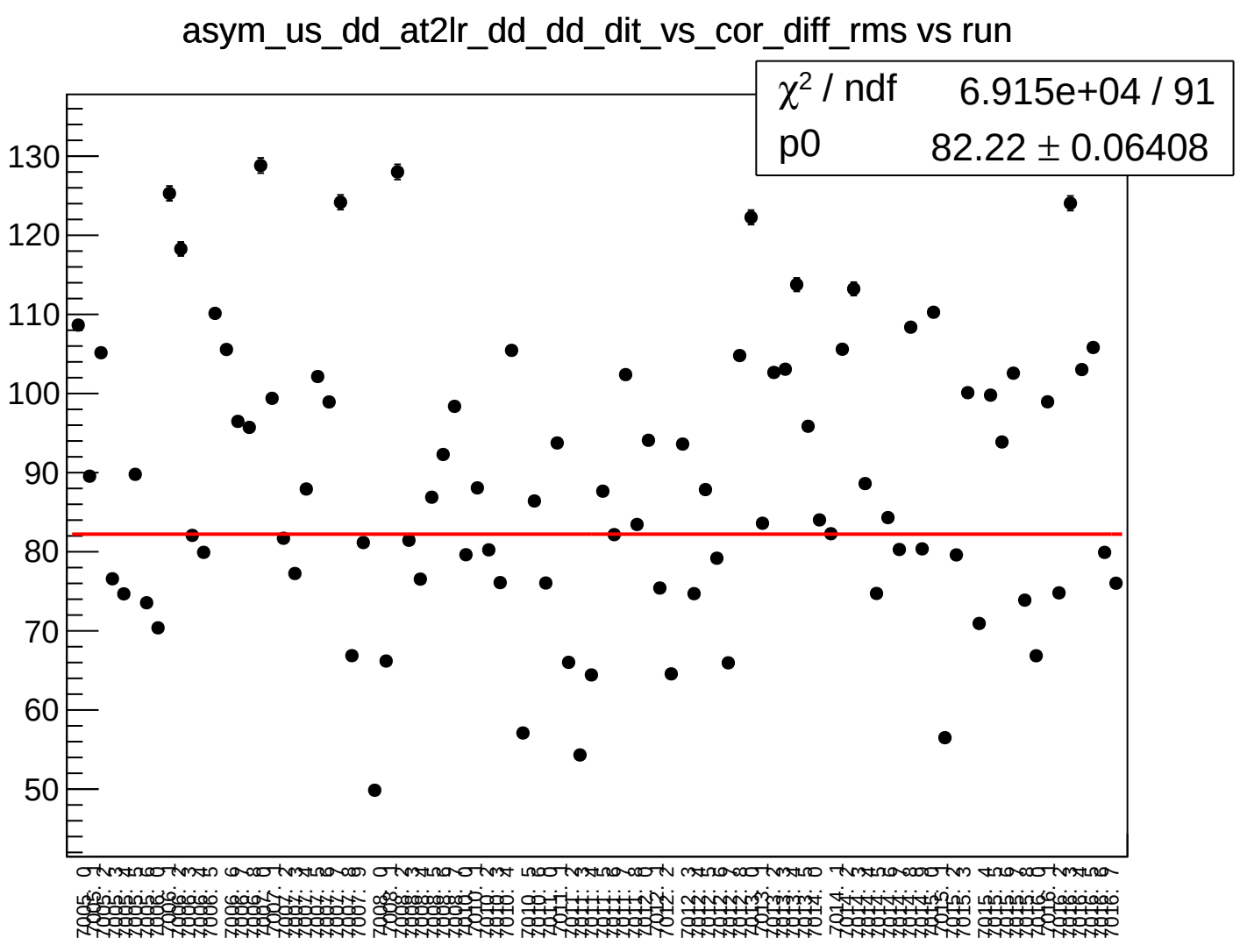

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 348.6 / 91
p0 1683 ± 1.285
1740
1720
1700
1680
1660
1640
1620
1600

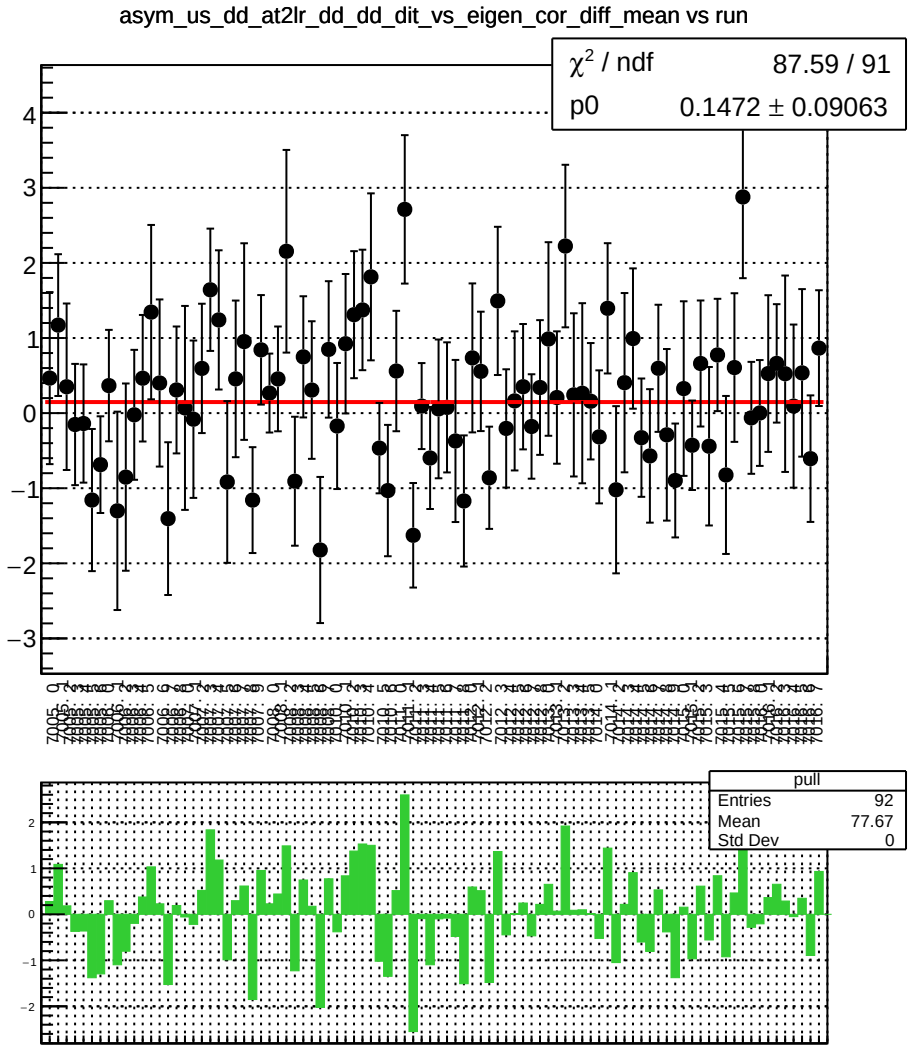

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.9 / 91
p0 2.388e−14 ± 1.813e−14
pull
Entries 92
Mean −36.46
Std Dev 0
pull1D
Entries 92
Mean −0.06087
Std Dev 1.056

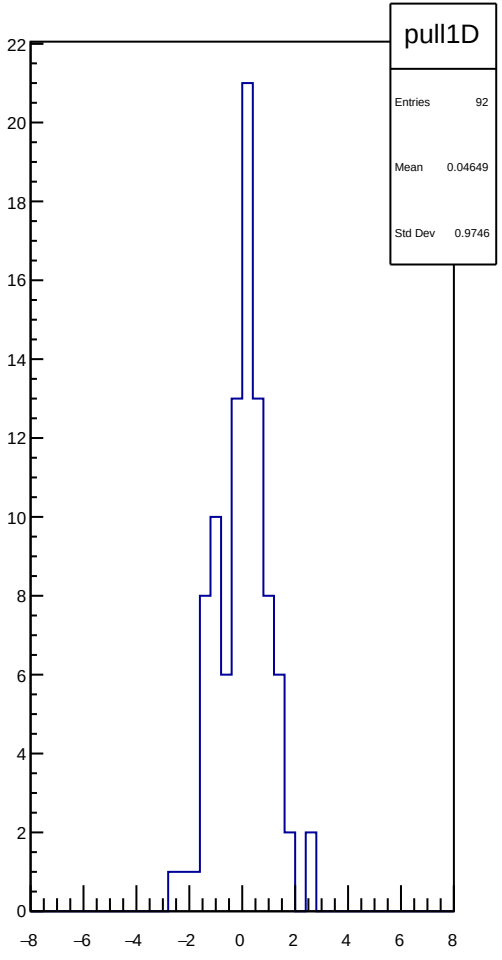

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 91
p0 1.042e−11 ± 1.282e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

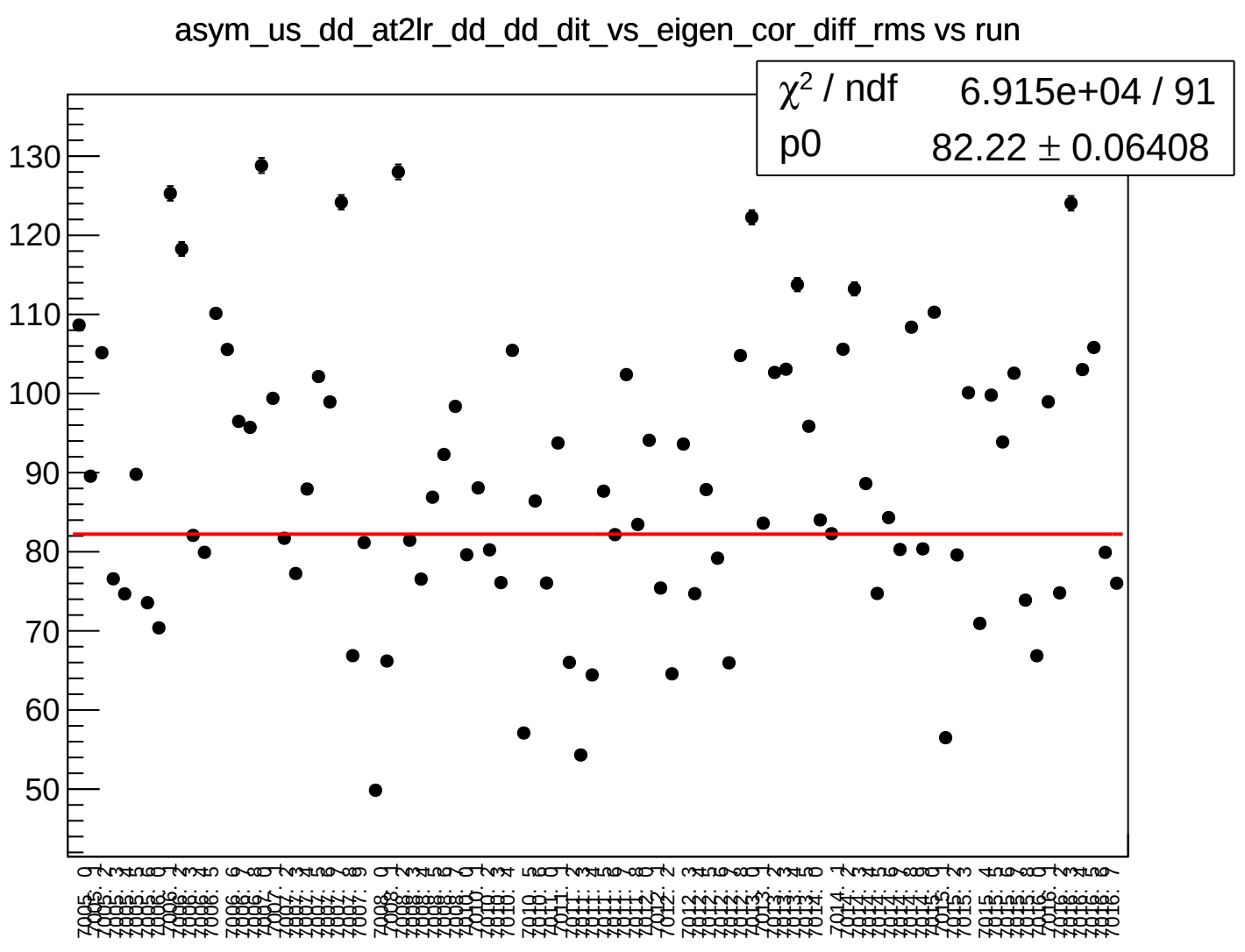

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.59 / 91
p0 0.1472 ± 0.09063
pull
Entries 92
Mean 77.67
Std Dev 0

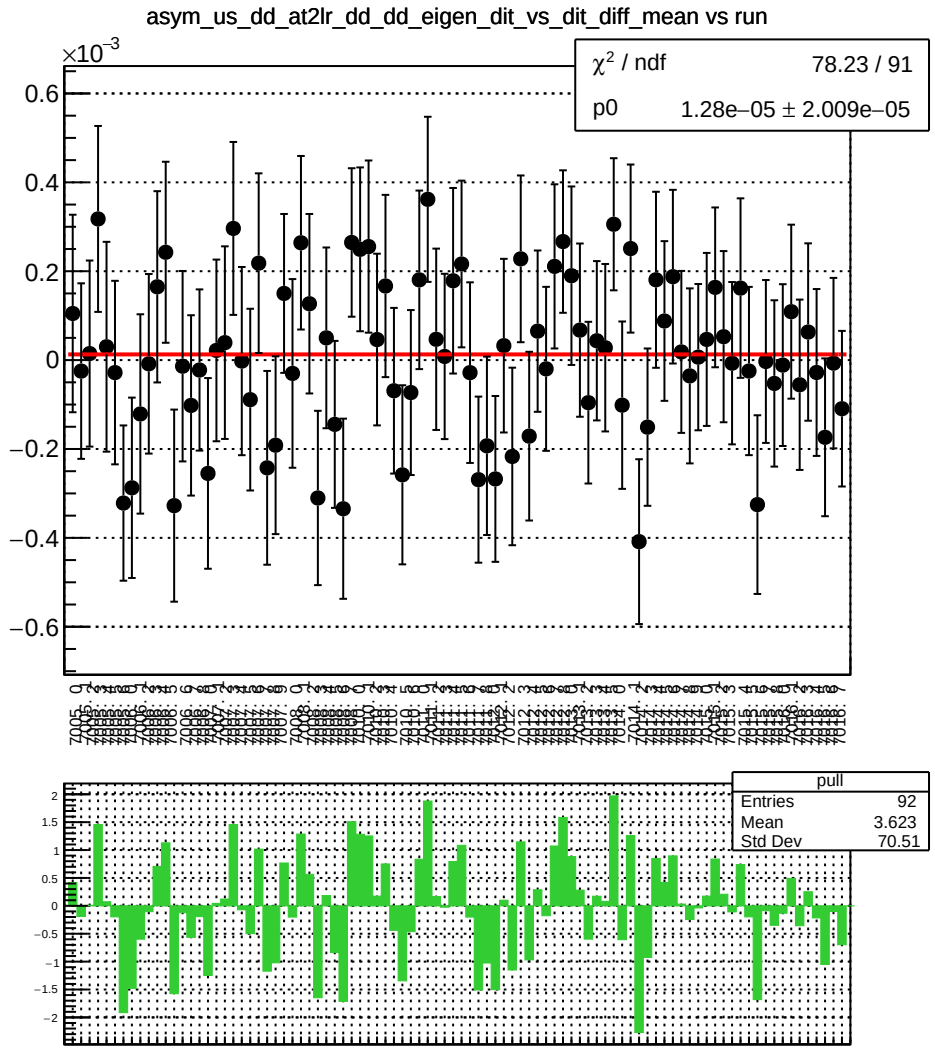

pull1D
Entries 92
Mean 0.04649
Std Dev 0.9746

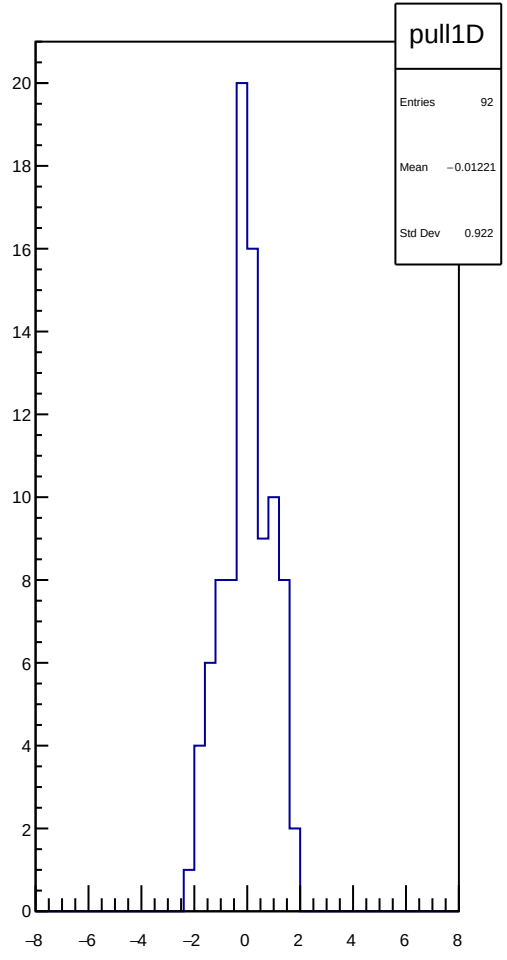

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.915e+04 / 91
p0 82.22 ± 0.06408
130
120
110
100
90
80
70
60
50

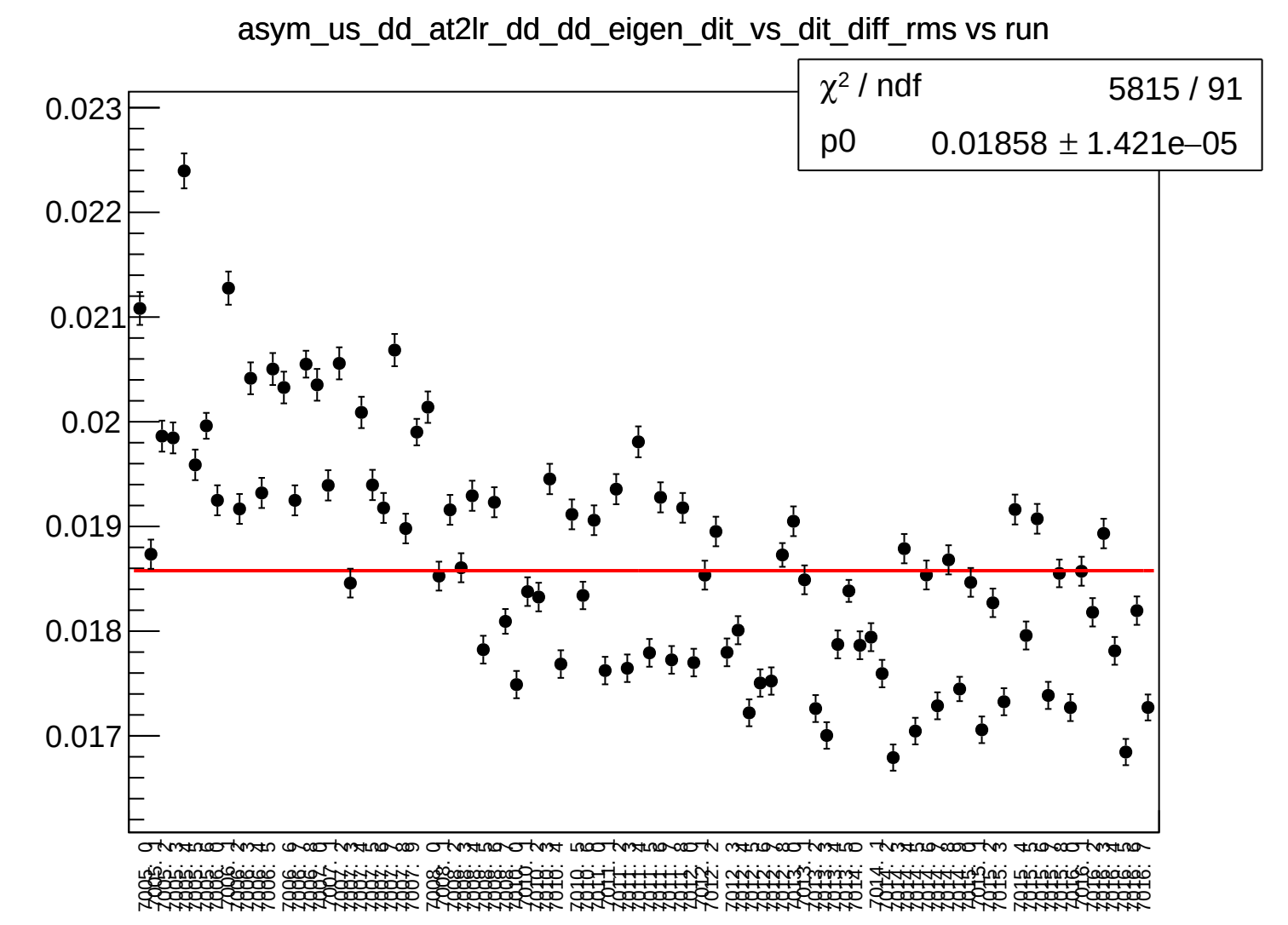

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.59 / 91
p0 0.1472 ± 0.09063
pull
Entries 92
Mean 77.67
Std Dev 0

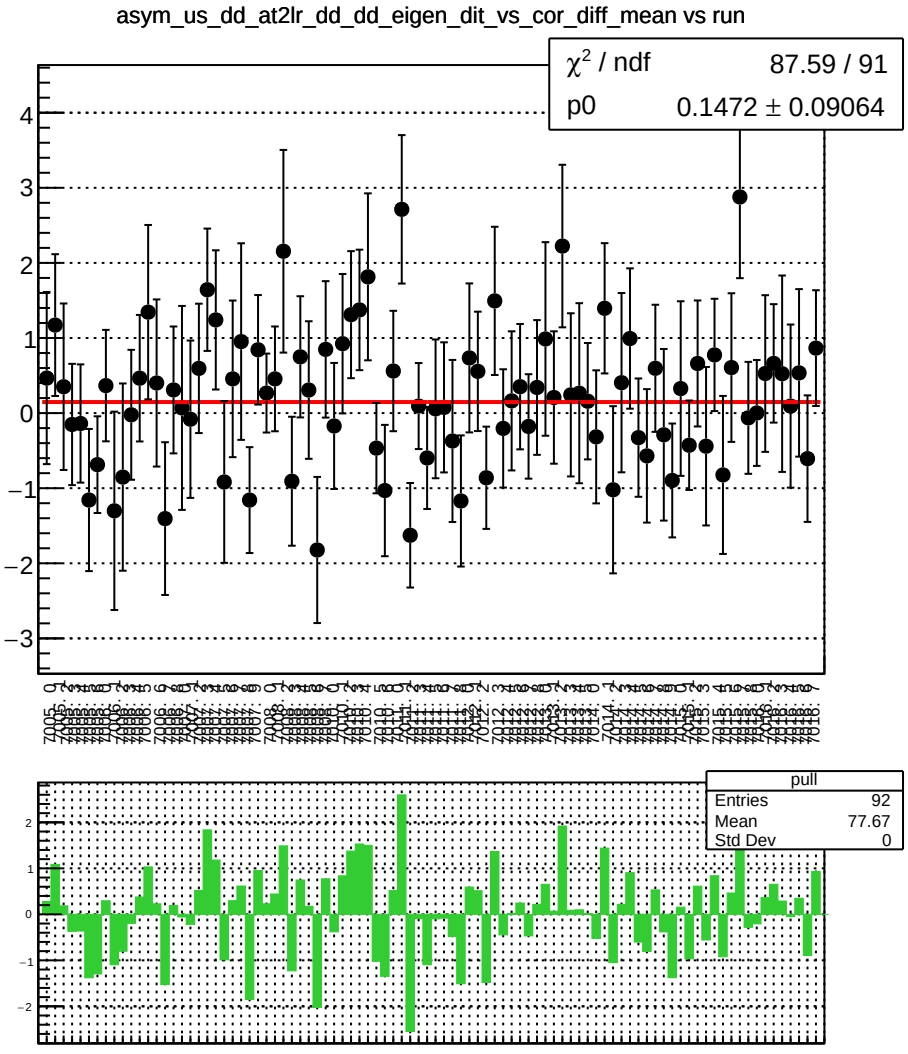

pull1D
Entries 92
Mean 0.04649
Std Dev 0.9746

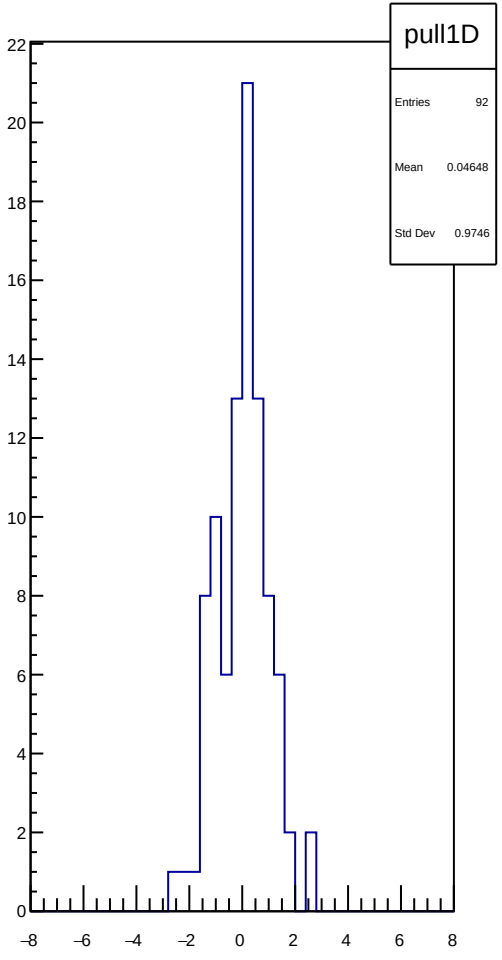

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.915e+04 / 91
p0 82.22 ± 0.06408
130
120
110
100
90
80
70
60
50

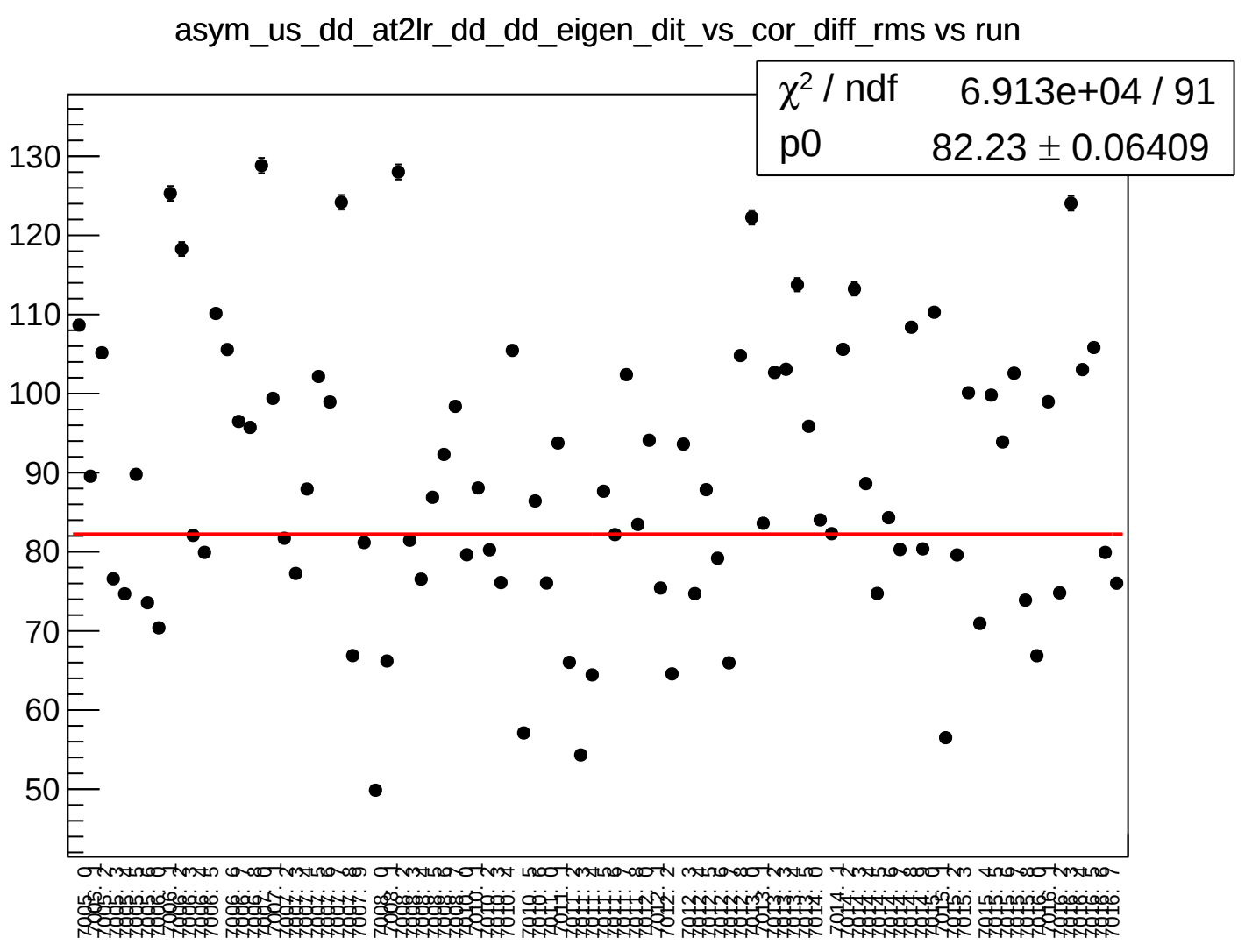

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.23 / 91
p0 1.28e−05 ± 2.009e−05
pull
Entries 92
Mean 3.623
Std Dev 70.51

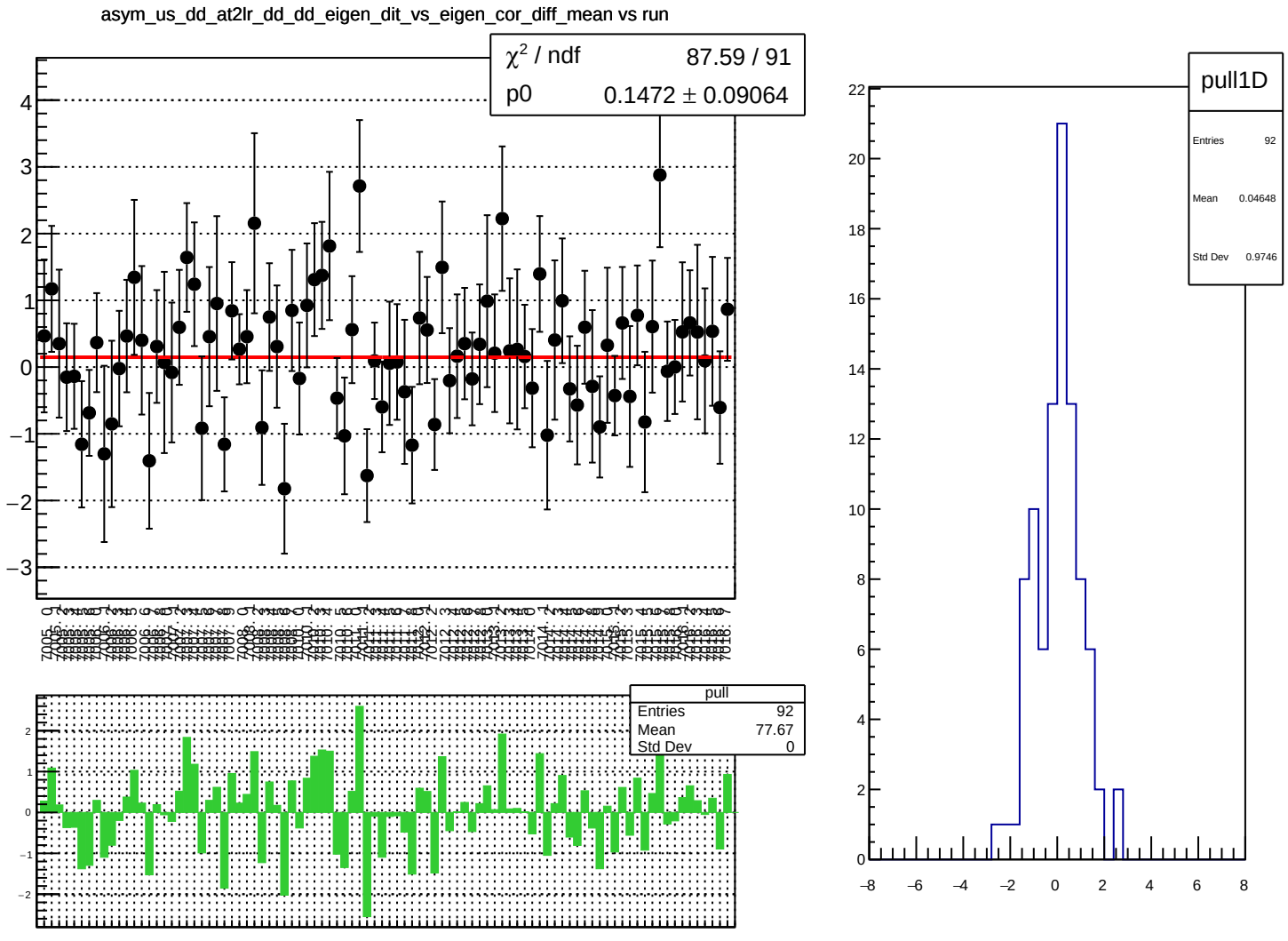

pull1D
Entries 92
Mean −0.01221
Std Dev 0.922

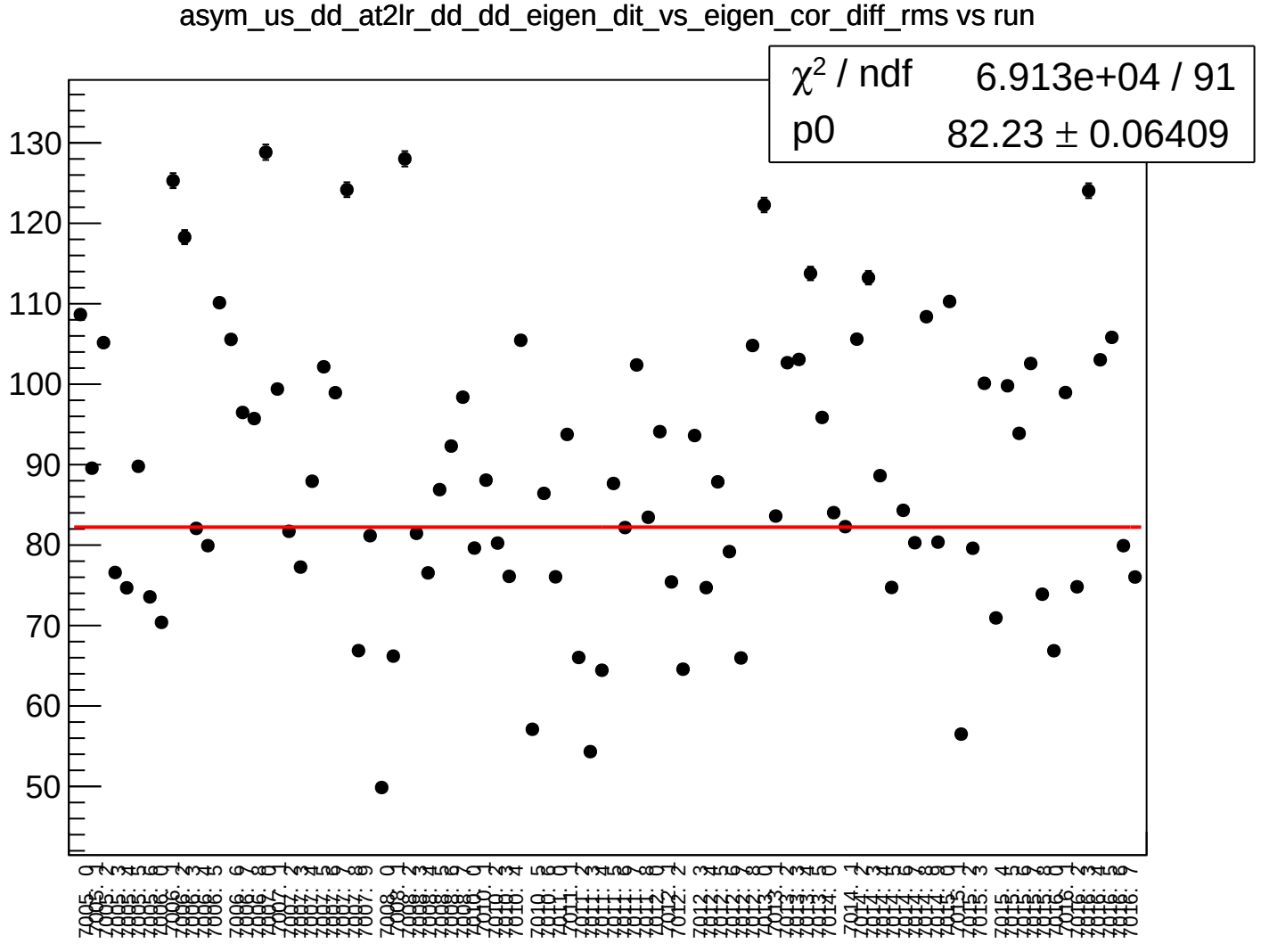

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5815 / 91
p0 0.01858 ± 1.421e−05
0.023
0.022
0.021
0.02
0.019
0.018
0.017

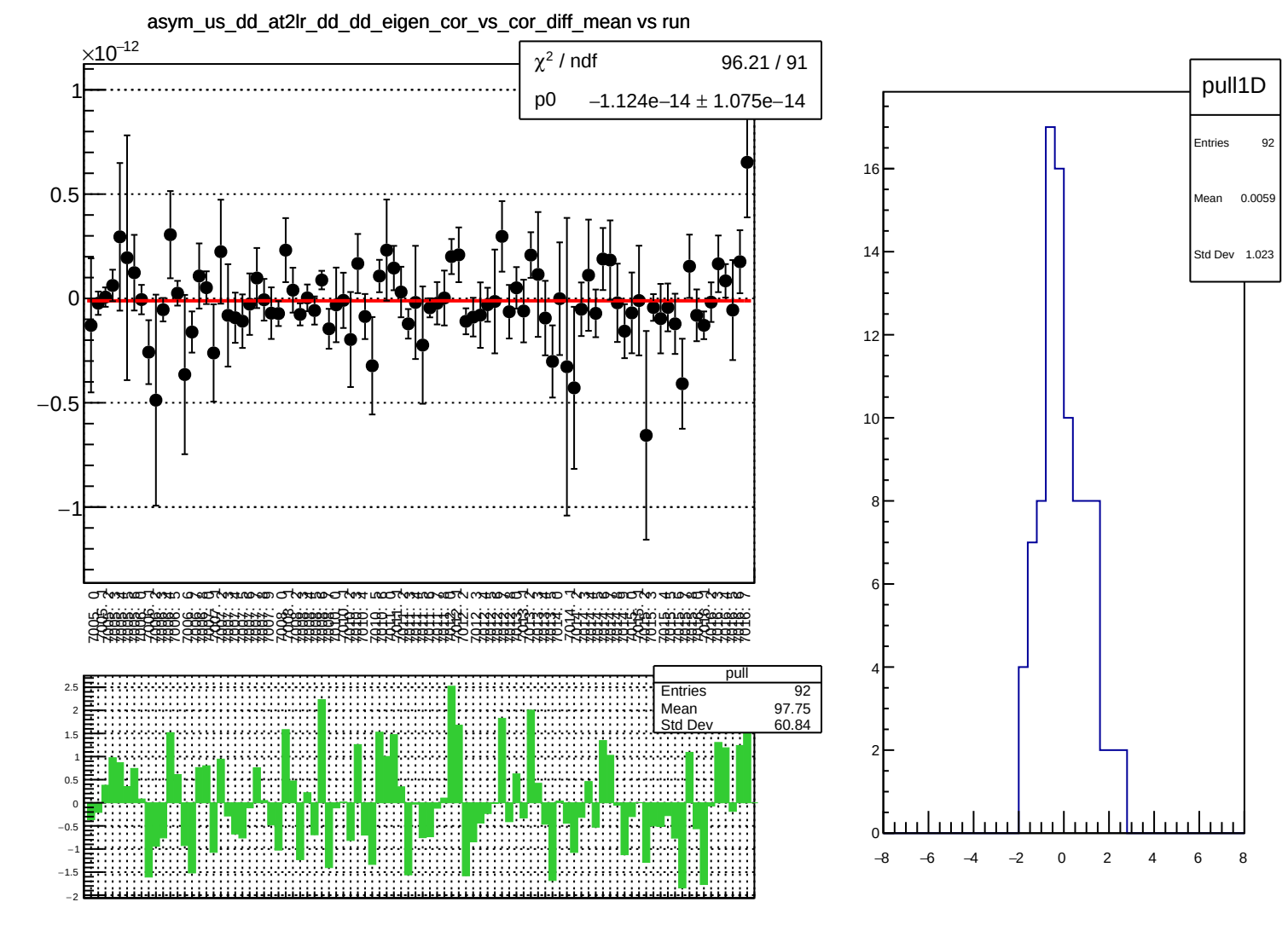

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.59 / 91
p0 0.1472 ± 0.09064
pull
Entries 92
Mean 77.67
Std Dev 0

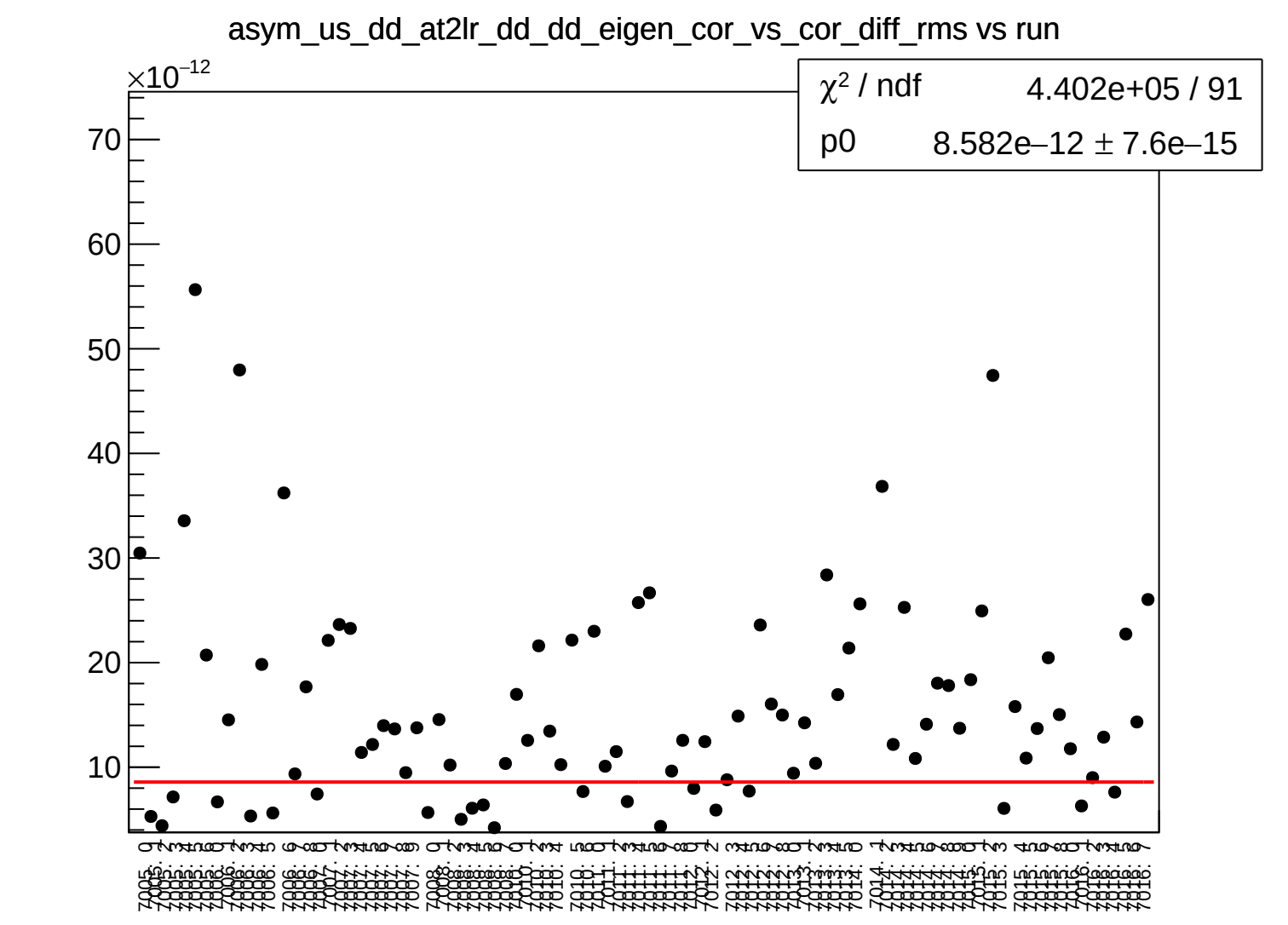

pull1D
Entries 92
Mean 0.04648
Std Dev 0.9746

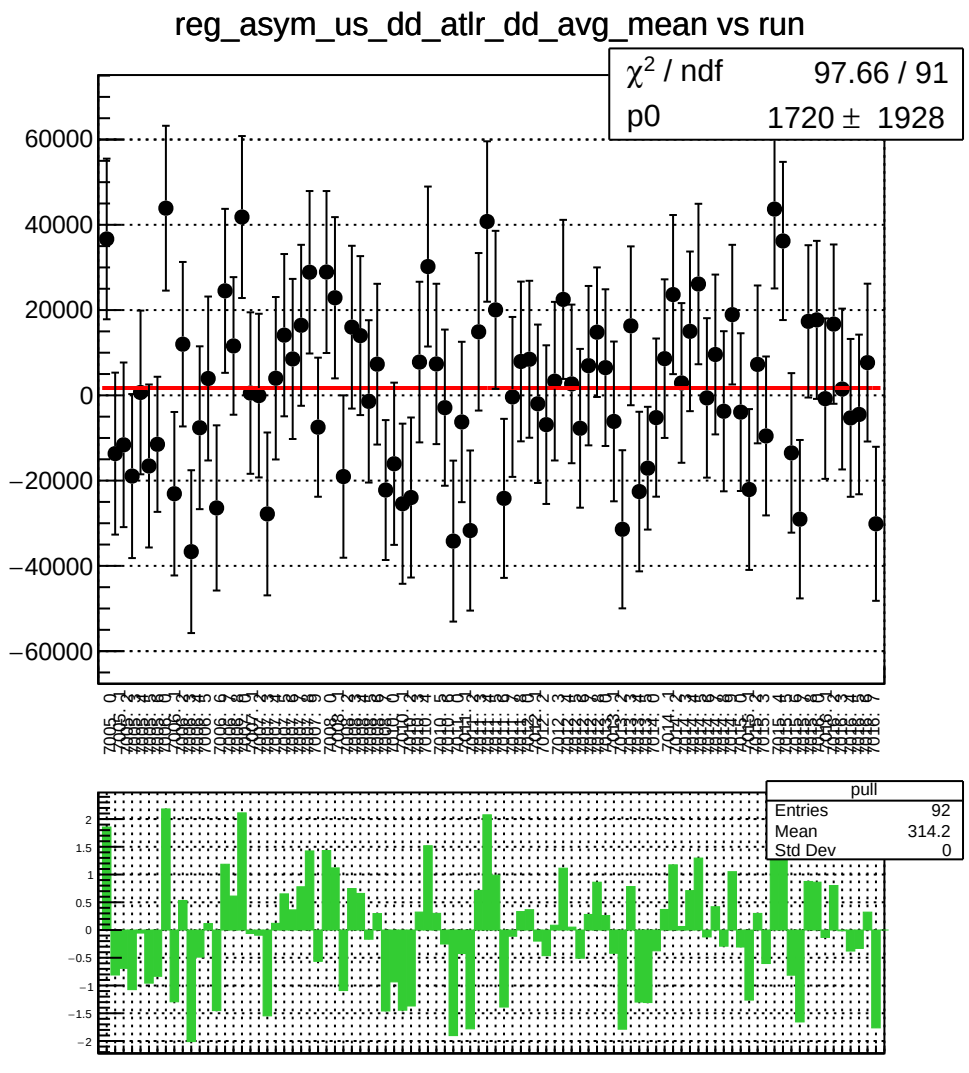

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.913e+04 / 91
p0 82.23 ± 0.06409
130
120
110
100
90
80
70
60
50

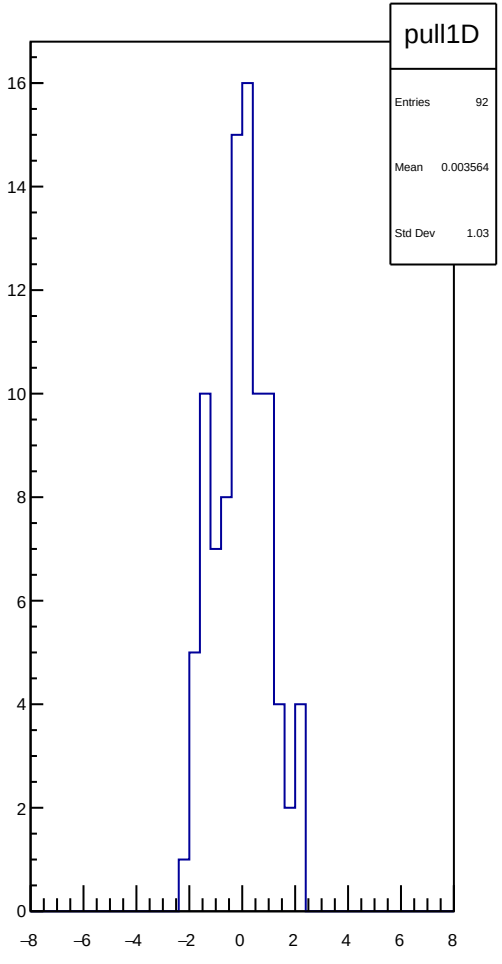

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.59 / 91
p0 0.1472 ± 0.09064
pull
Entries 92
Mean 77.67
Std Dev 0
pull1D
Entries 92
Mean 0.04648
Std Dev 0.9746

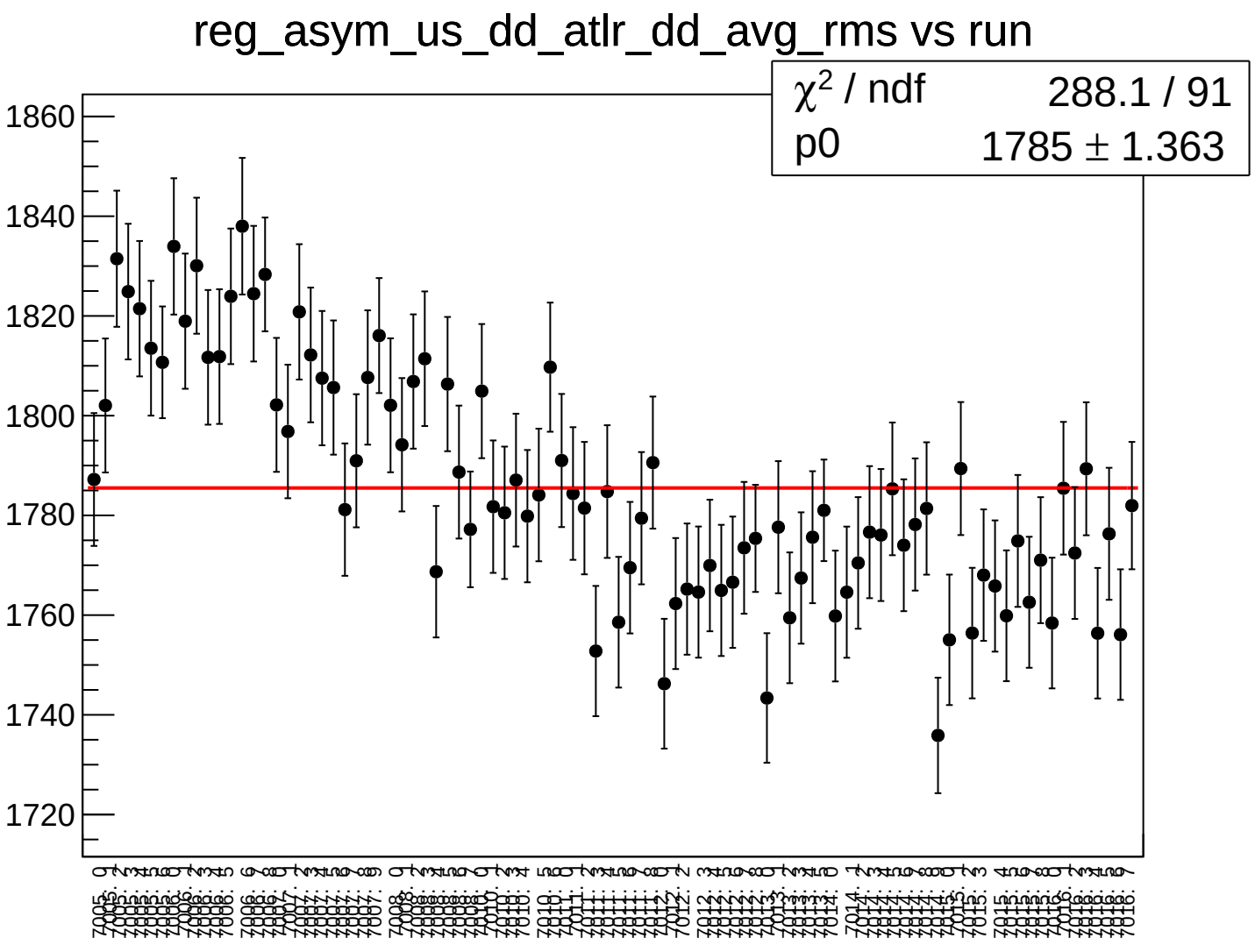

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.913e+04 / 91
p0 82.23 ± 0.06409
130
120
110
100
90
80
70
60
50

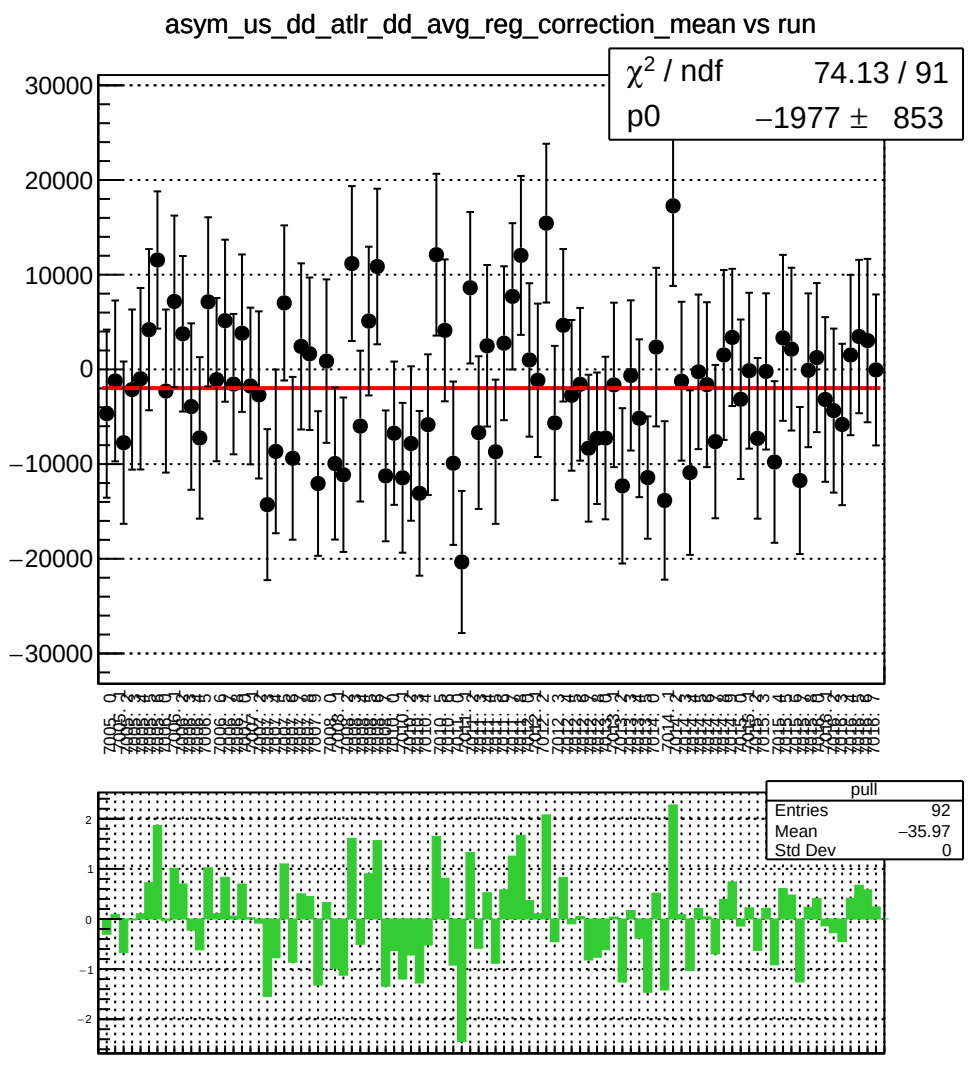

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.21 / 91
p0 −1.124e−14 ± 1.075e−14
pull
Entries 92
Mean 97.75
Std Dev 60.84
pull1D
Entries 92
Mean 0.0059
Std Dev 1.023

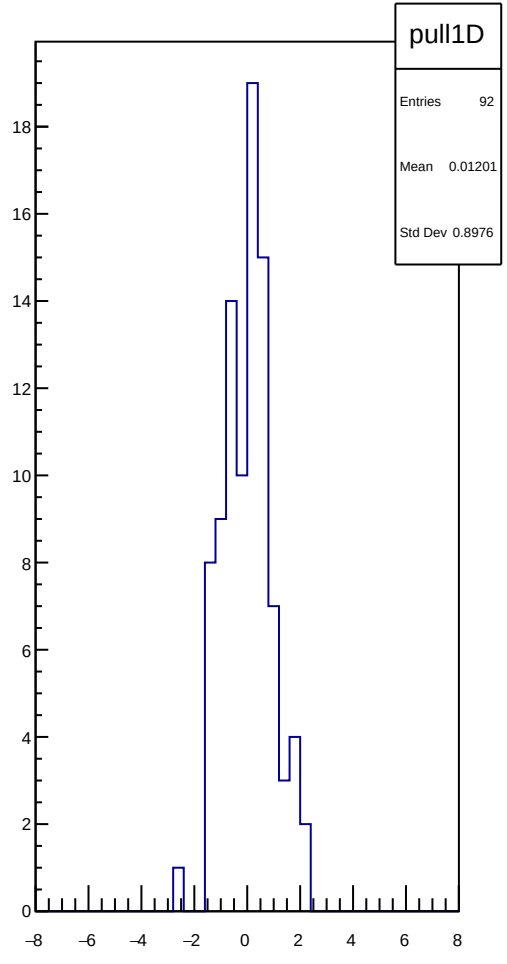

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.402e+05 / 91
p0 8.582e−12 ± 7.6e−15
70
60
50
40
30
20
10

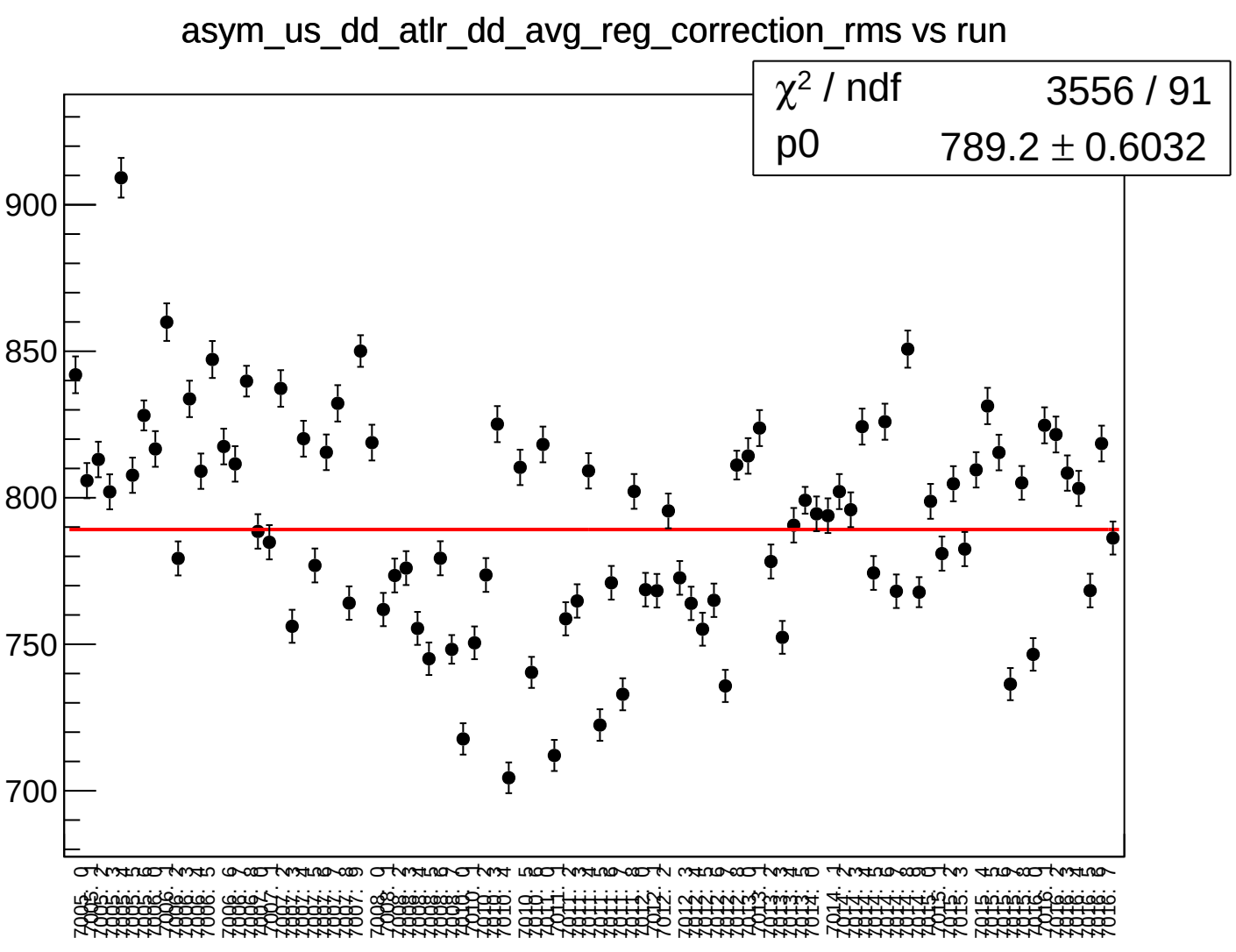

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 97.66 / 91
p0 1720 ± 1928
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 314.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

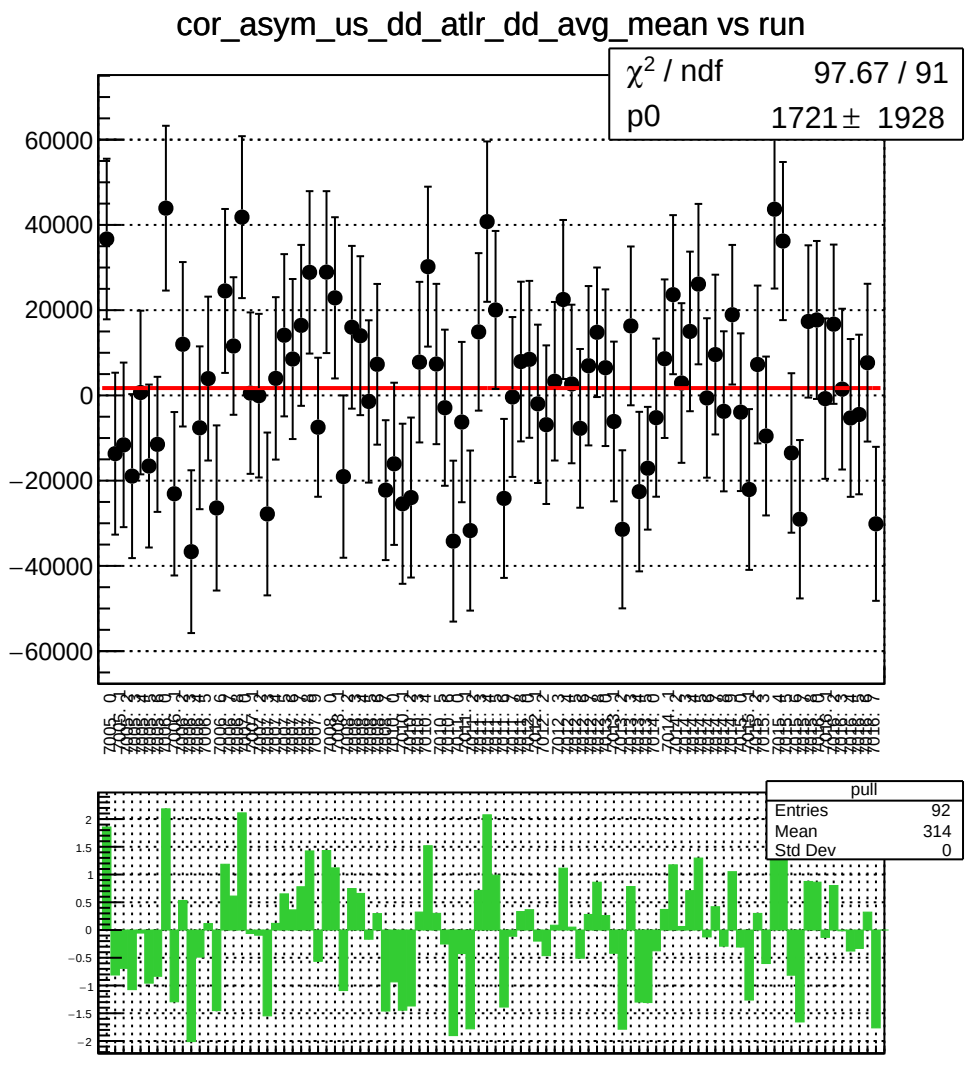

pull1D
Entries 92
Mean 0.003564
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

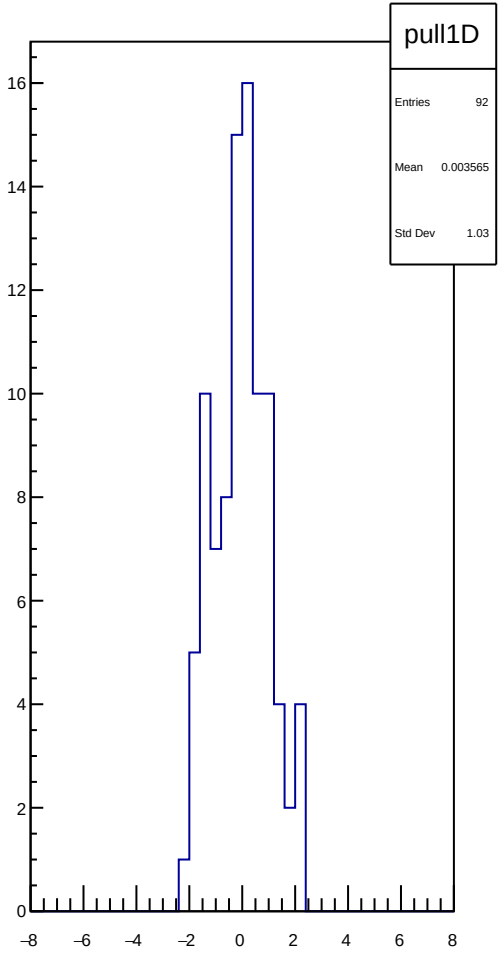

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 288.1 / 91
p0 1785 ± 1.363
1860
1840
1820
1800
1780
1760
1740
1720

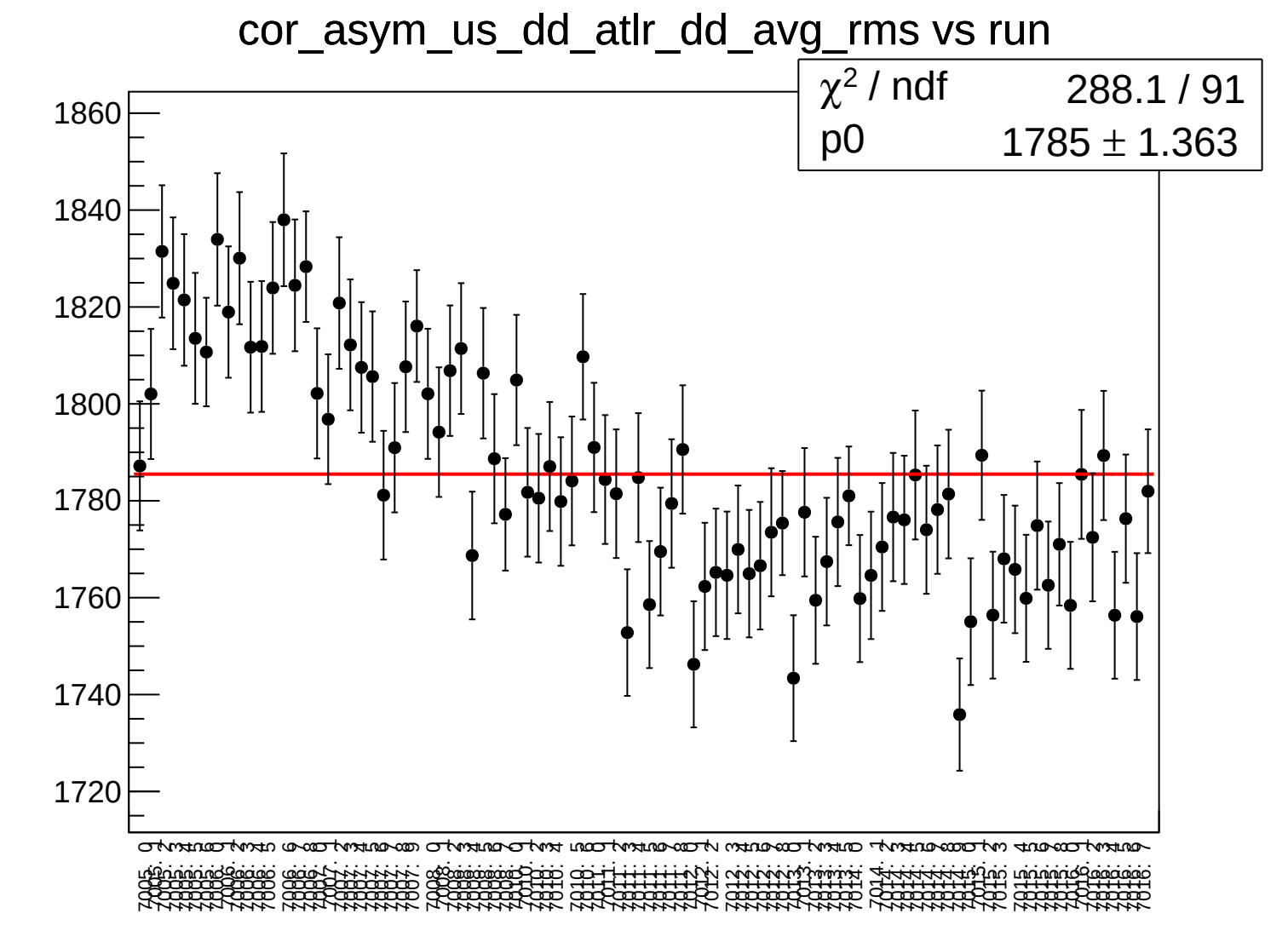

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 74.13 / 91
p0 −1977 ± 853
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −35.97
Std Dev 0
2
1
0
−1
−2

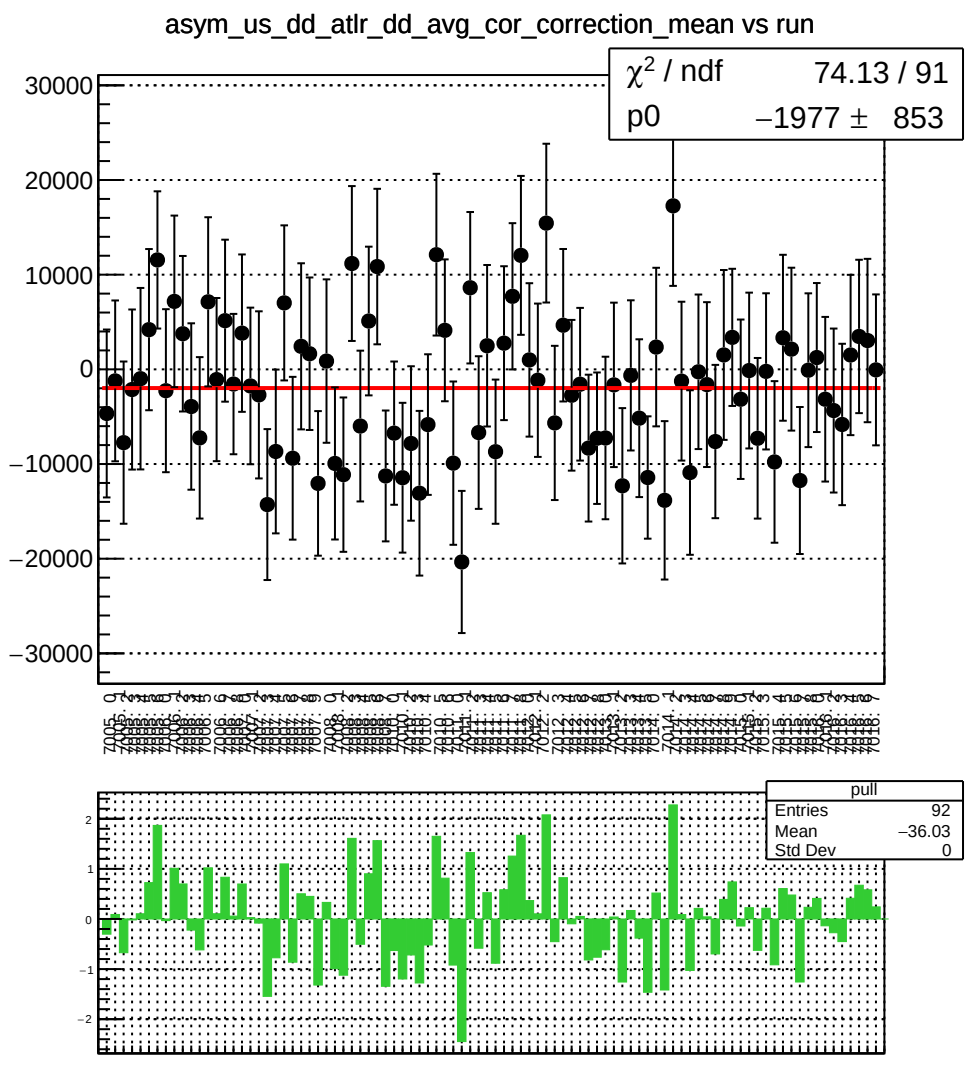

pull1D
Entries 92
Mean 0.01201
Std Dev 0.8976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

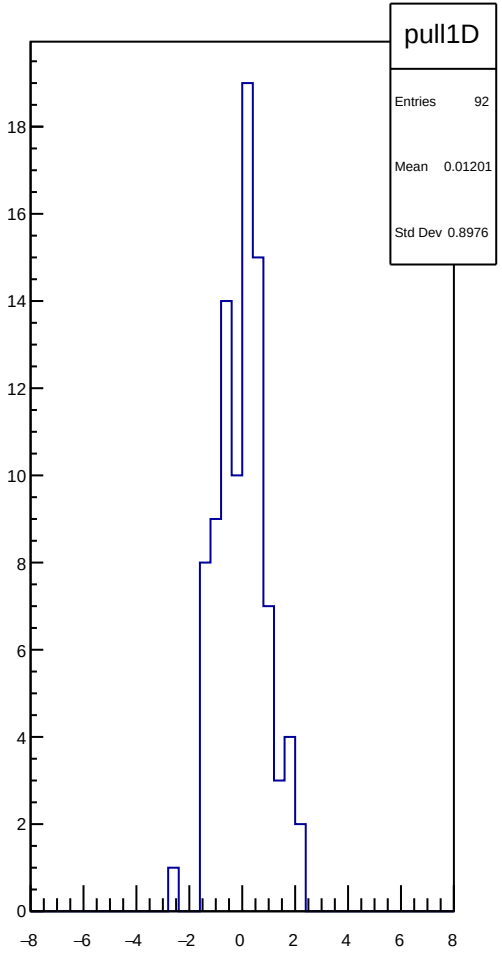

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 3556 / 91
p0 789.2 ± 0.6032
900
850
800
750
700

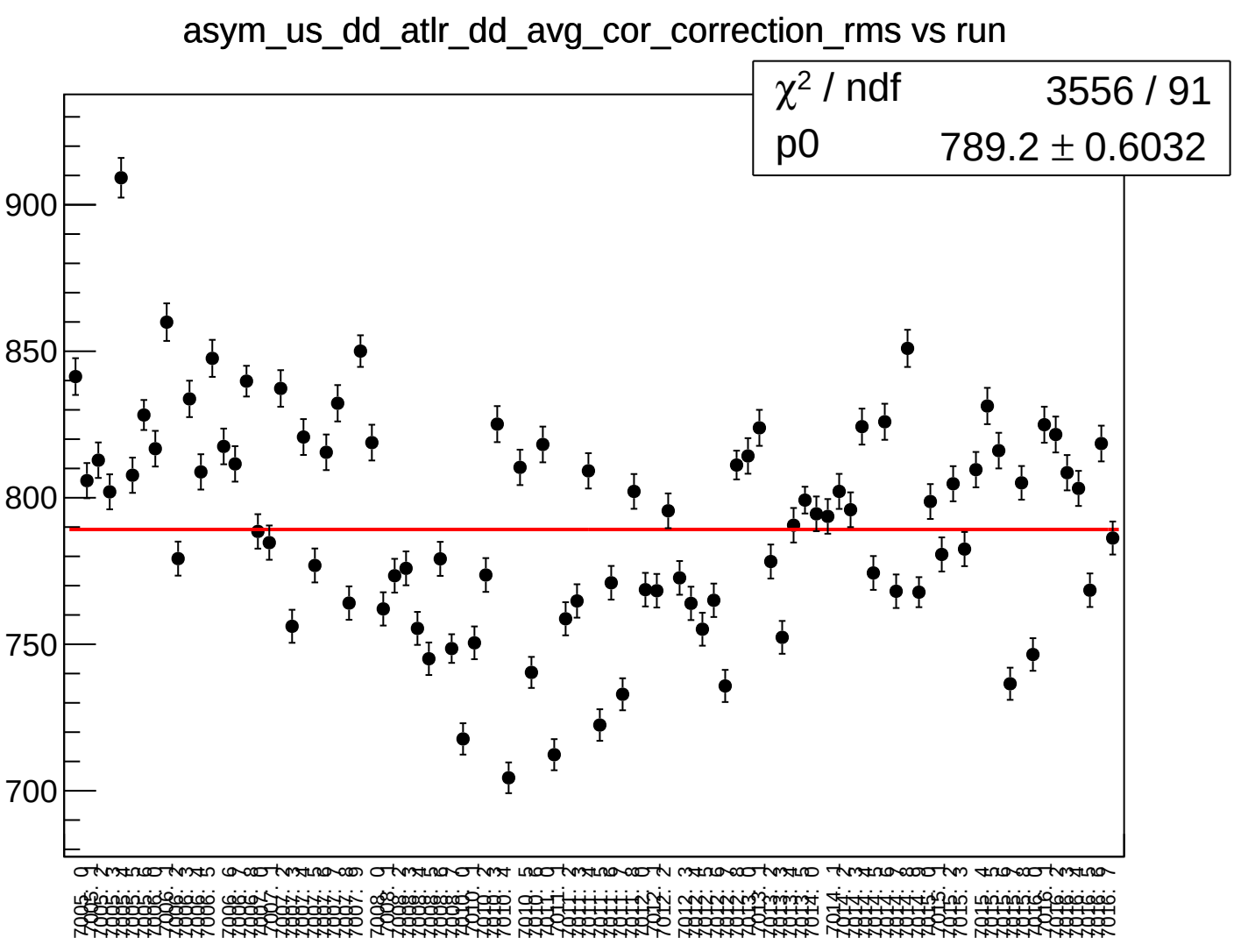

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 97.67 / 91
p0 1721 ± 1928
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 314
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

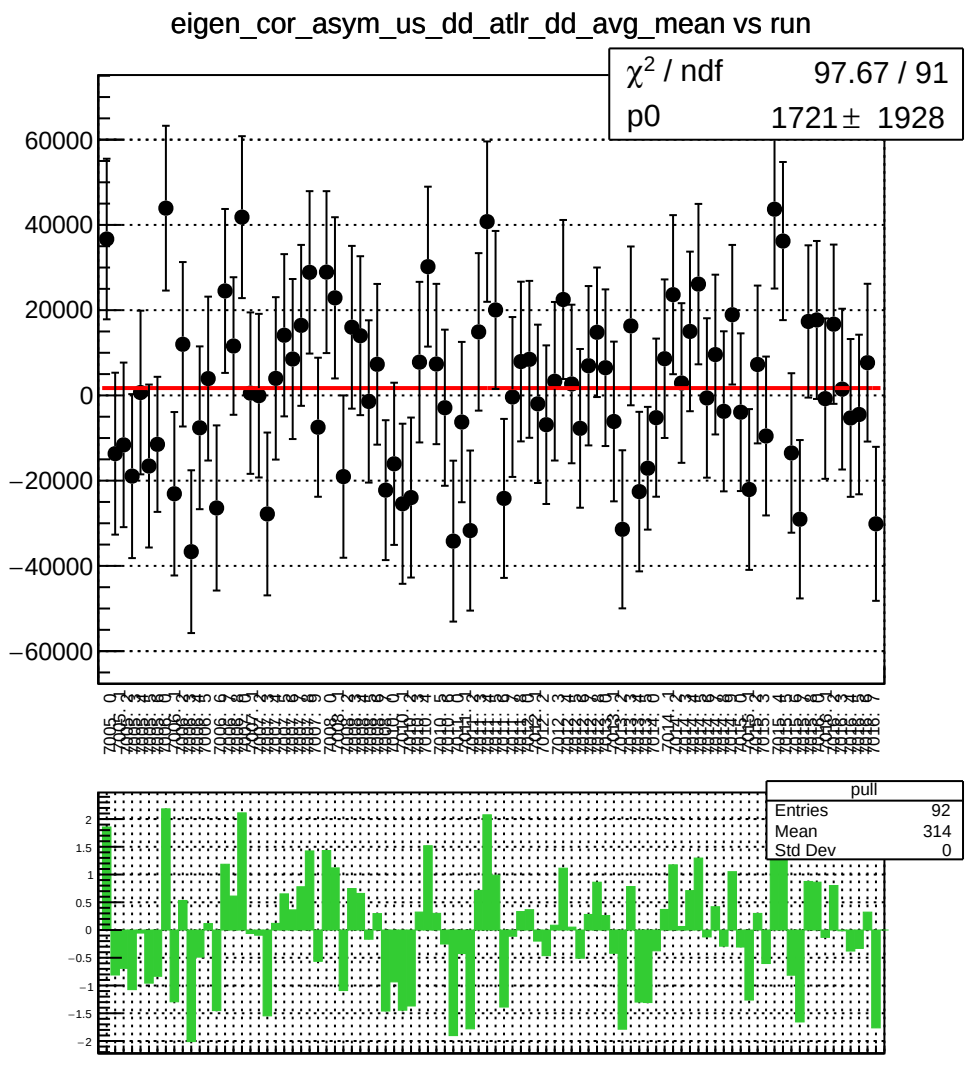

pull1D
Entries 92
Mean 0.003565
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

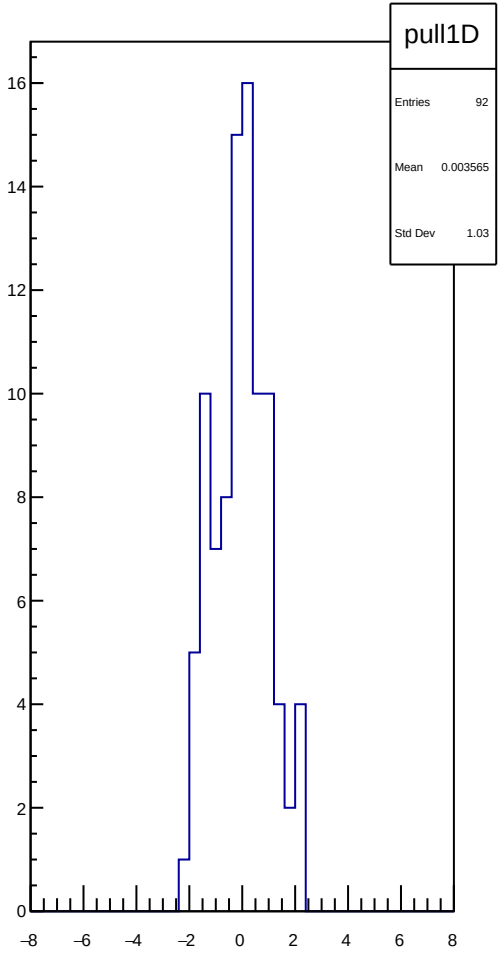

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 288.1 / 91
p0 1785 ± 1.363
1860
1840
1820
1800
1780
1760
1740
1720

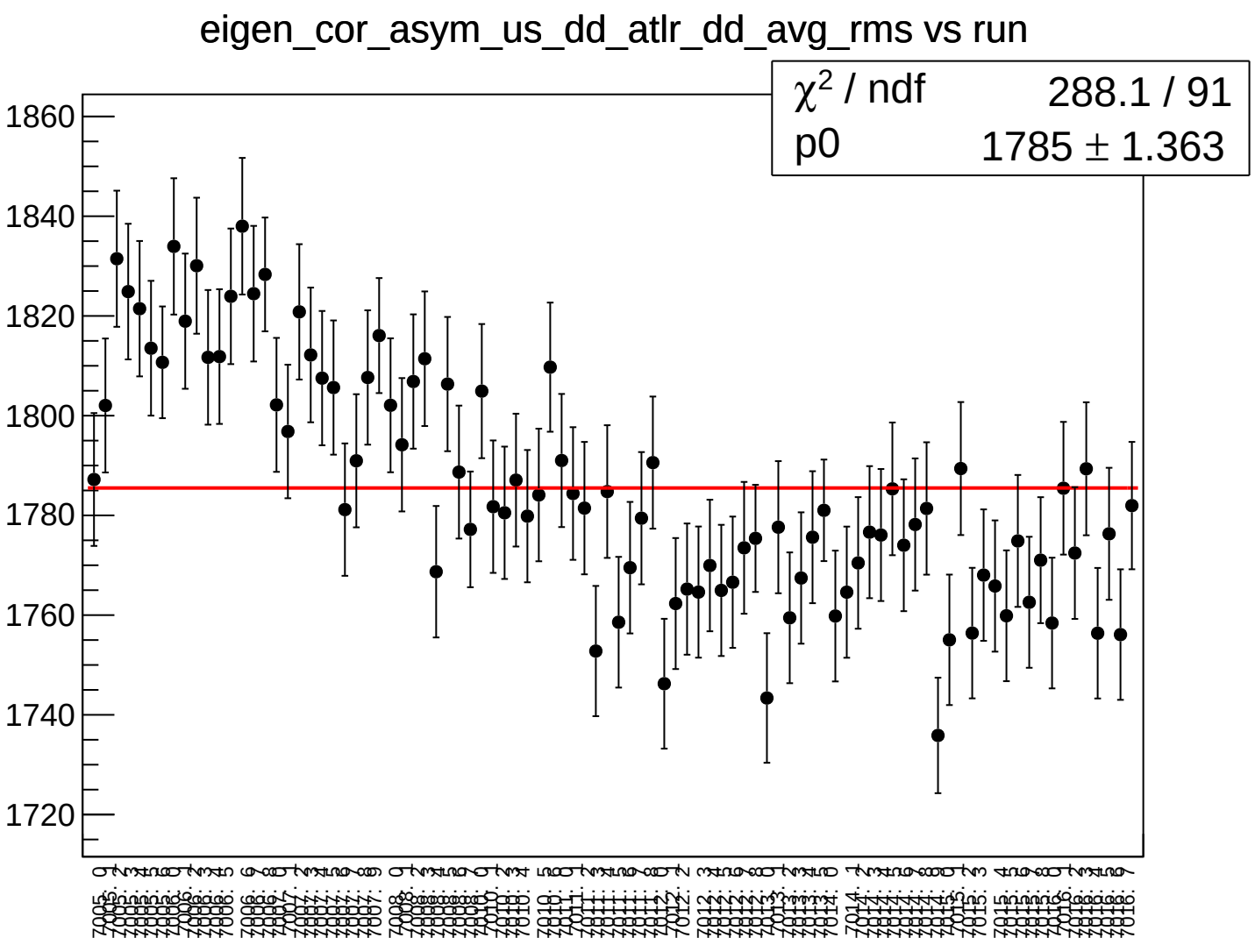

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 74.13 / 91
p0 −1977 ± 853
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −36.03
Std Dev 0
2
1
0
−1
−2

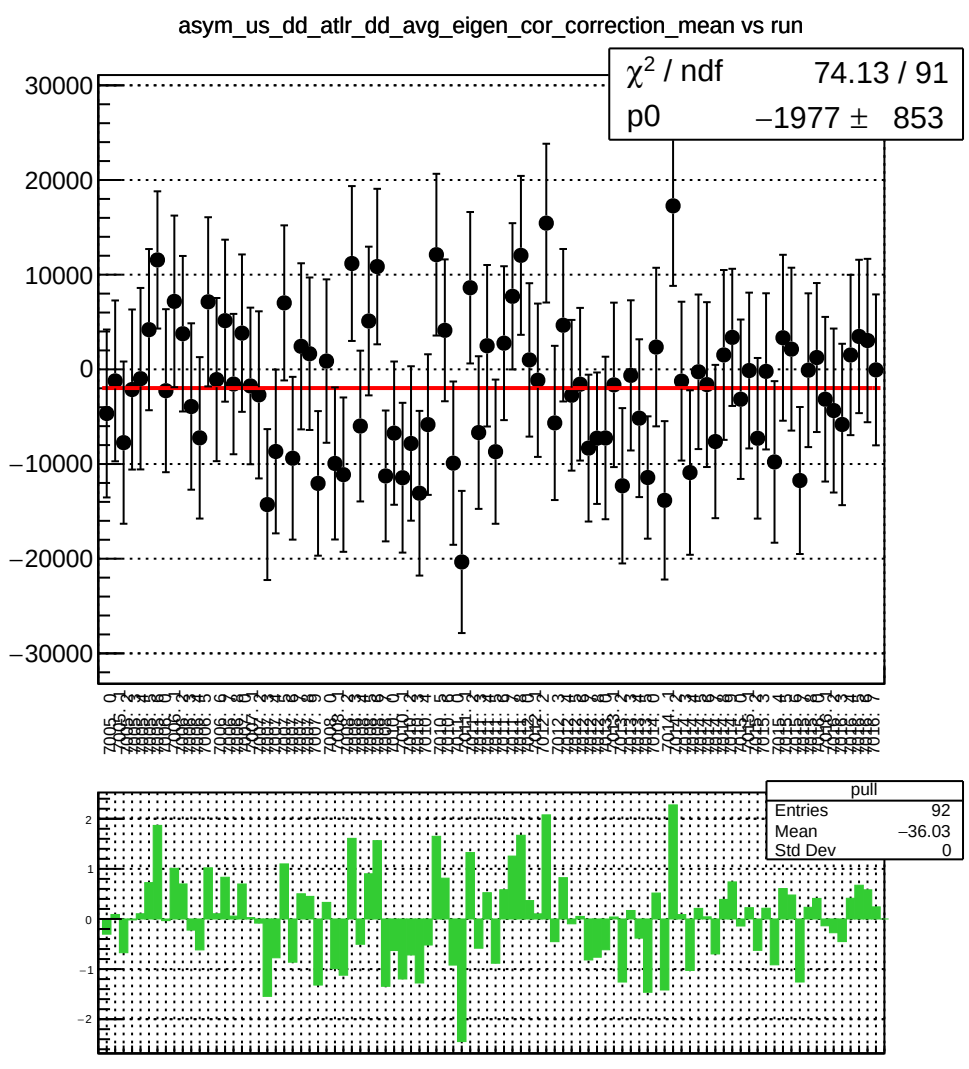

pull1D
Entries 92
Mean 0.01201
Std Dev 0.8976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

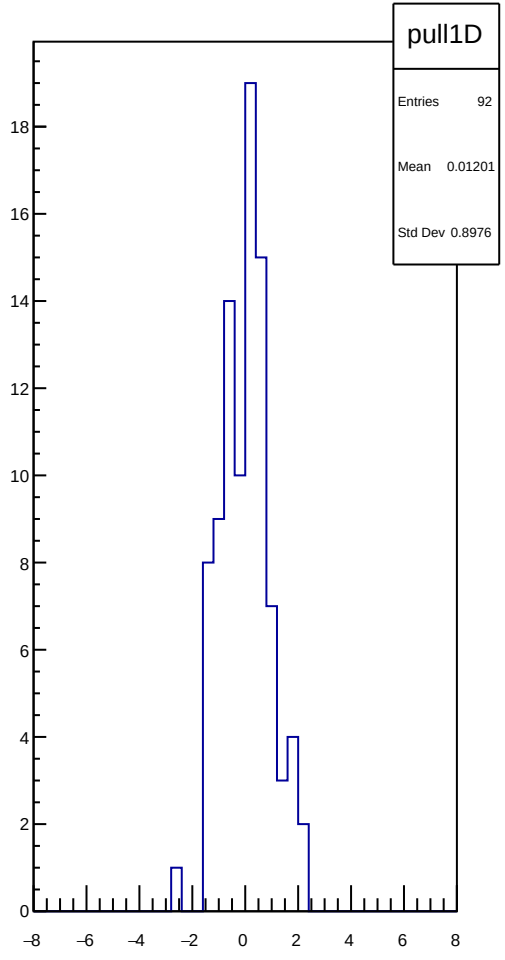

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 3556 / 91
p0 789.2 ± 0.6032
900
850
800
750
700

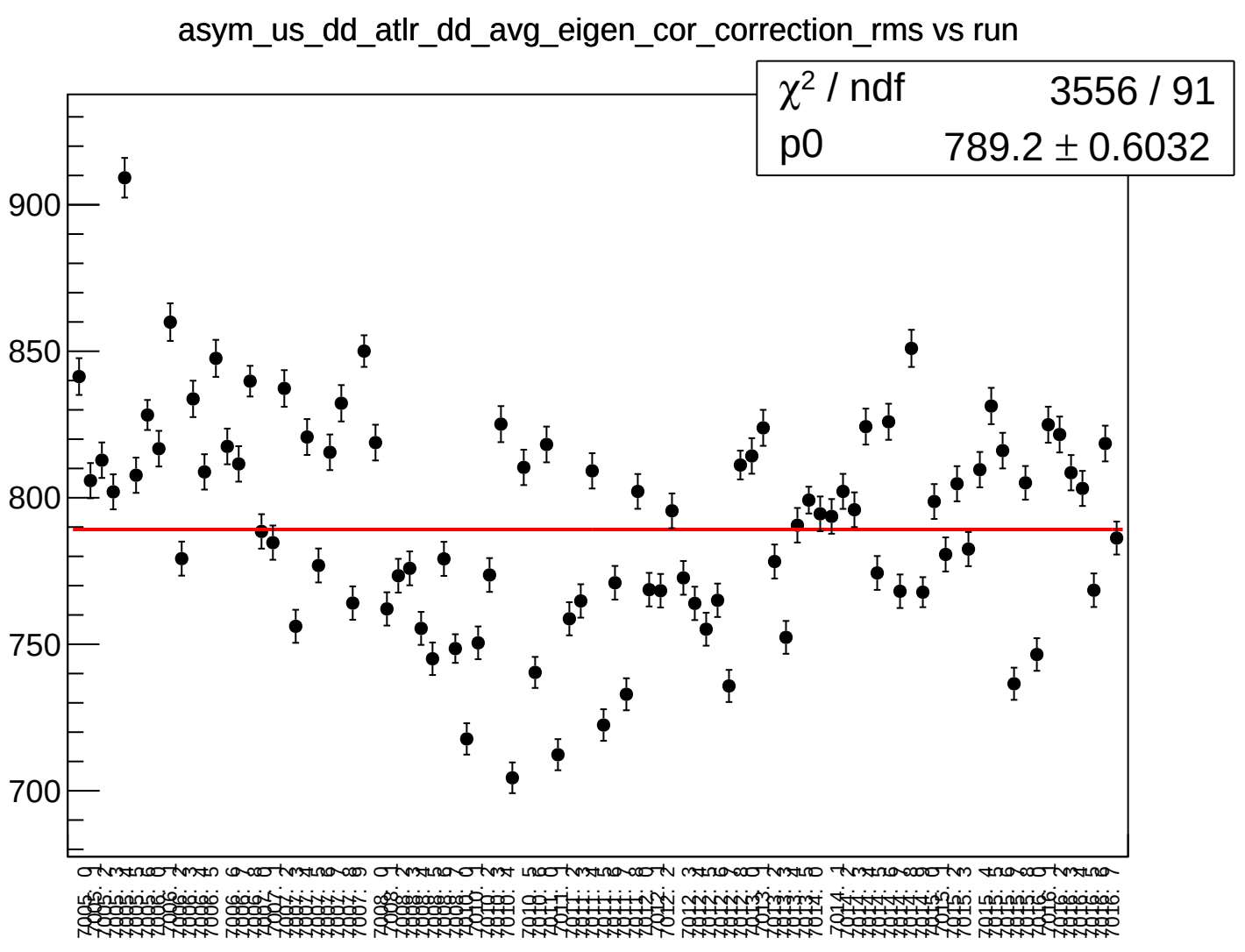

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 97.67 / 91
p0 1721 ± 1928
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 314
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

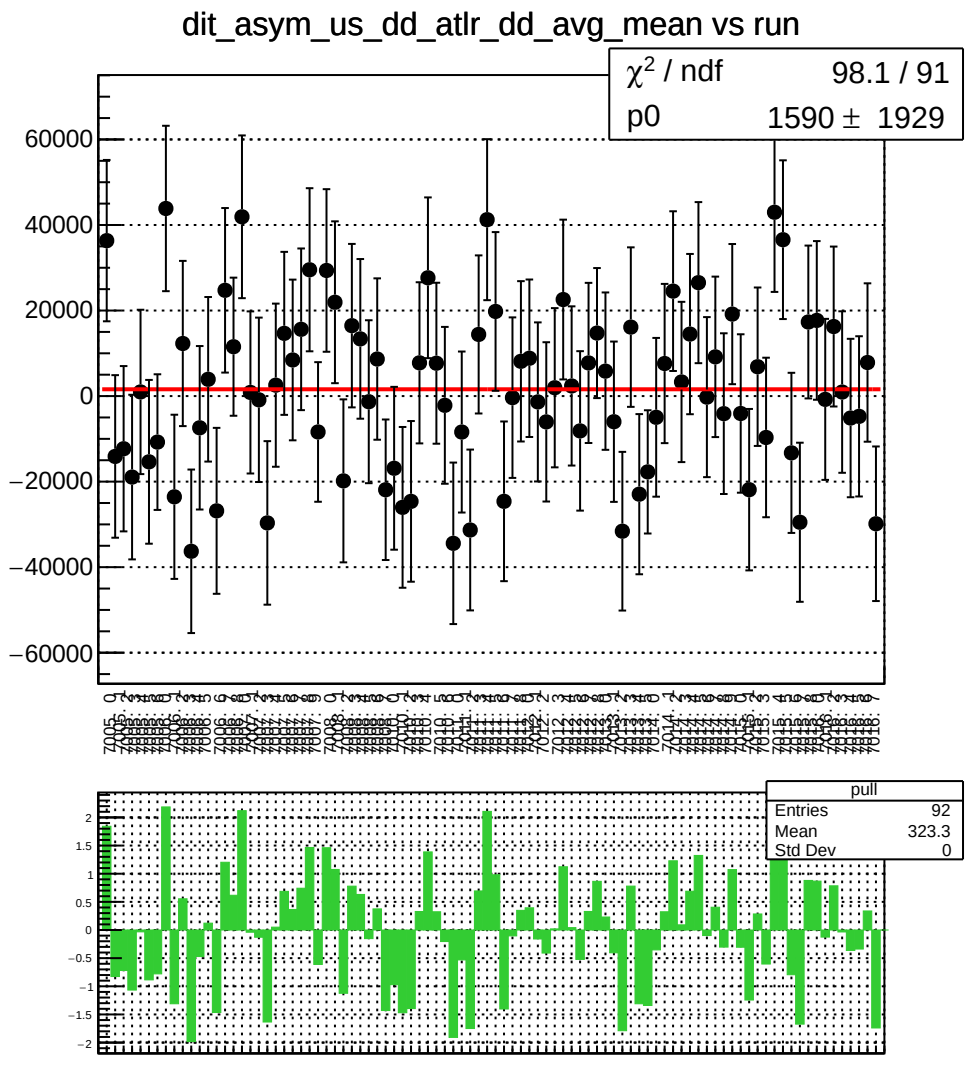

pull1D
Entries 92
Mean 0.003565
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

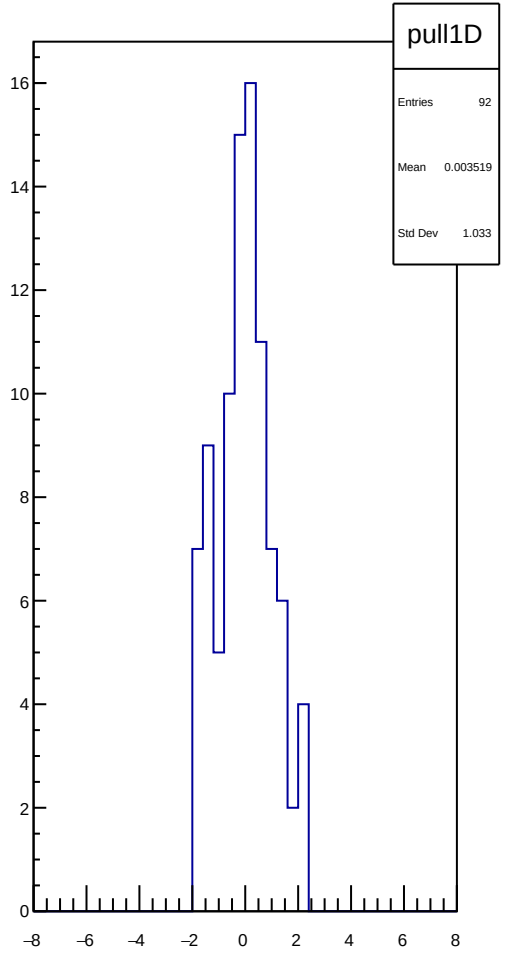

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 288.1 / 91
p0 1785 ± 1.363
1860
1840
1820
1800
1780
1760
1740
1720

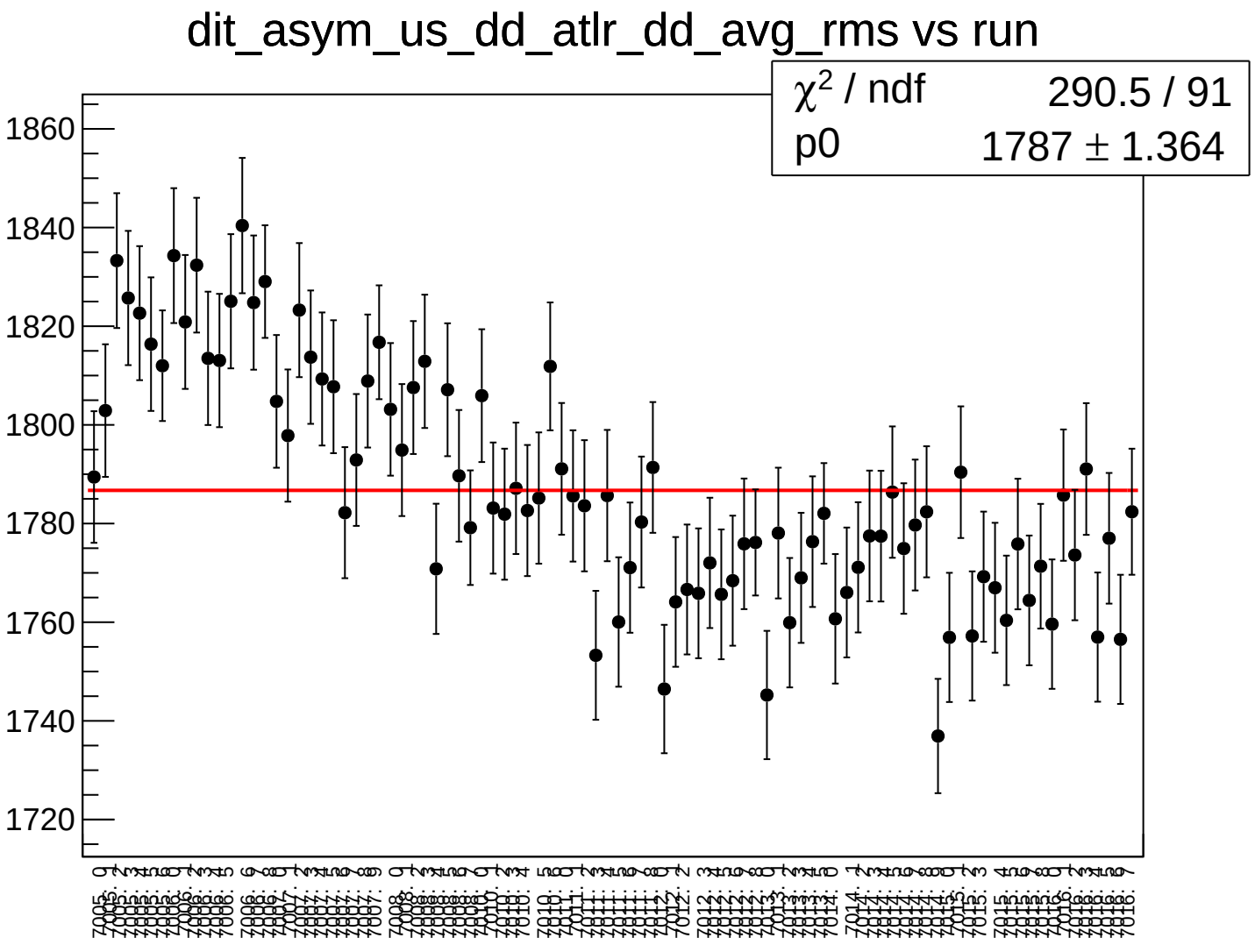

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.13 / 91
p0 −1977 ± 853
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −36.03
Std Dev 0
2
1
0
−1
−2

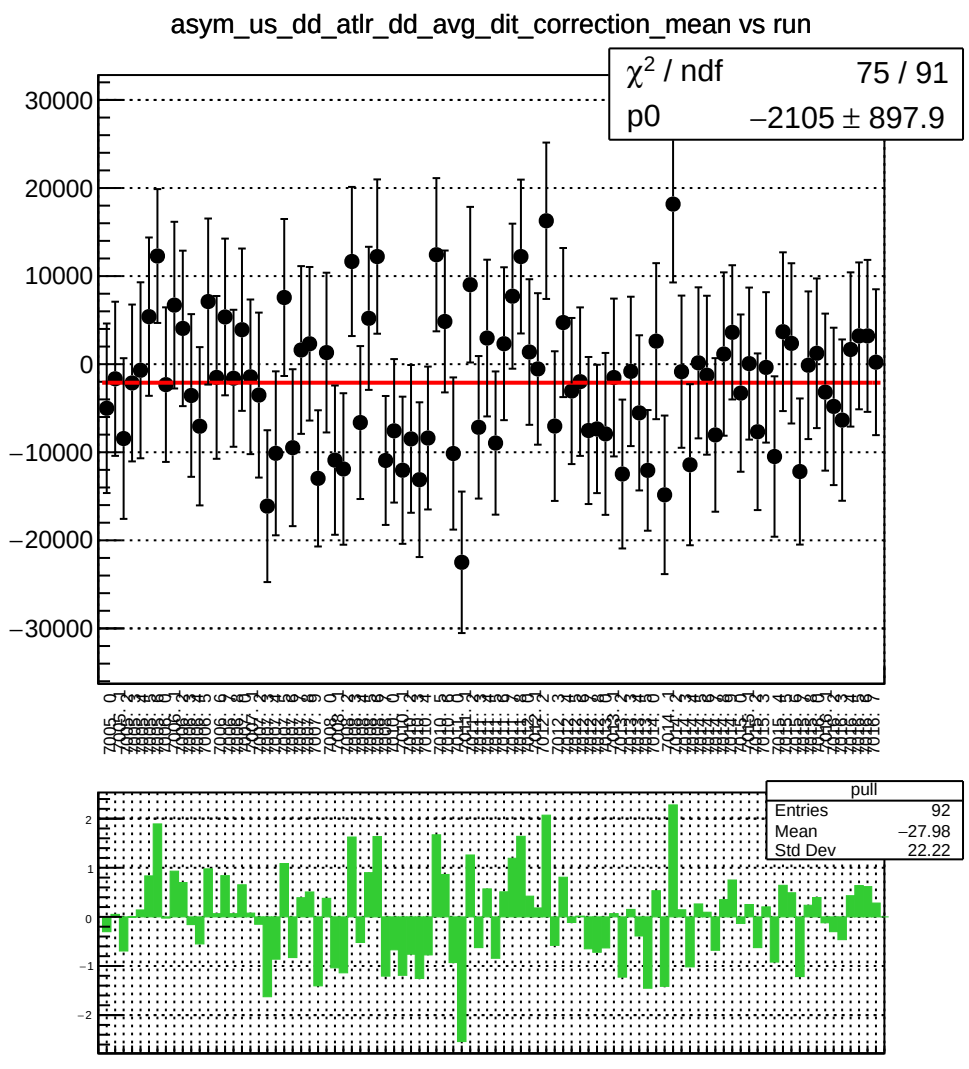

pull1D
Entries 92
Mean 0.01201
Std Dev 0.8976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

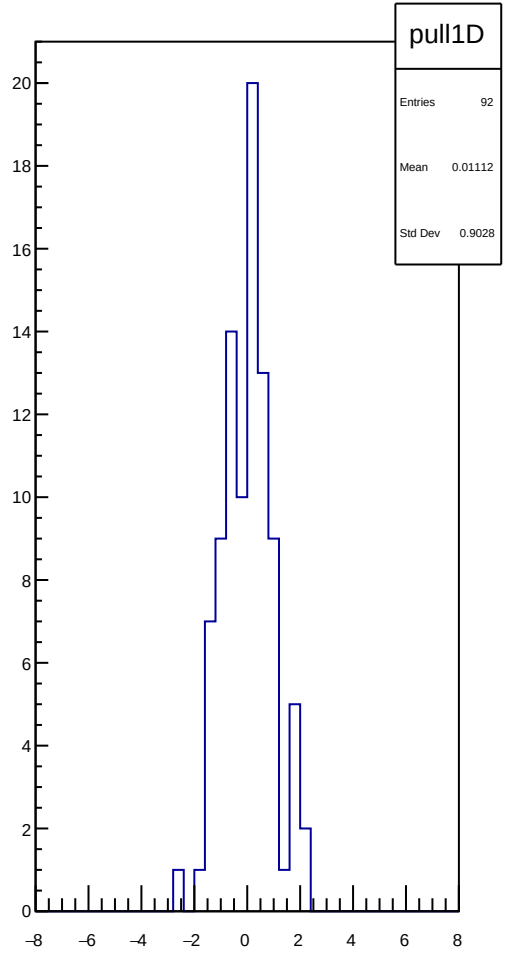

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3556 / 91
p0 789.2 ± 0.6032
900
850
800
750
700

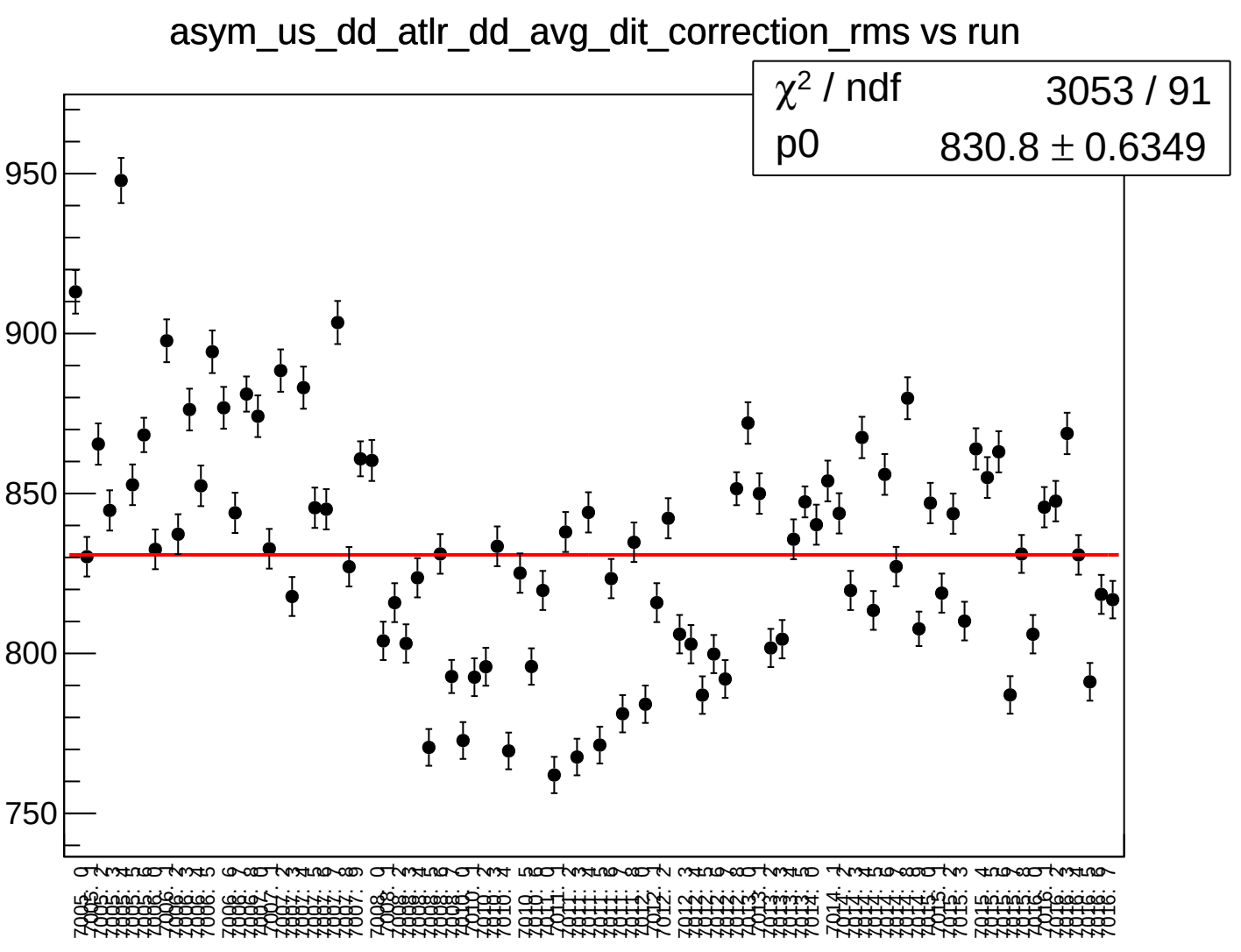

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 98.1 / 91
p0 1590 ± 1929
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 323.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

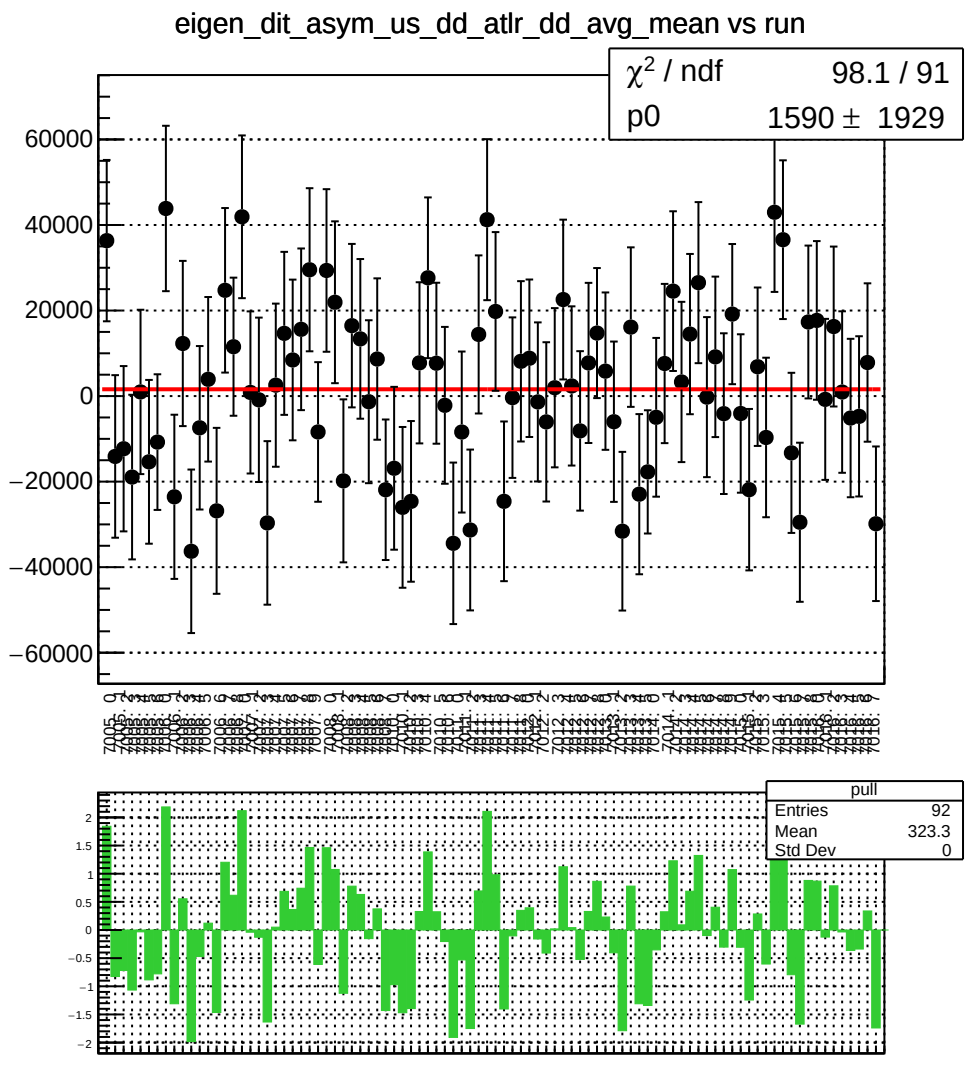

pull1D
Entries 92
Mean 0.003519
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

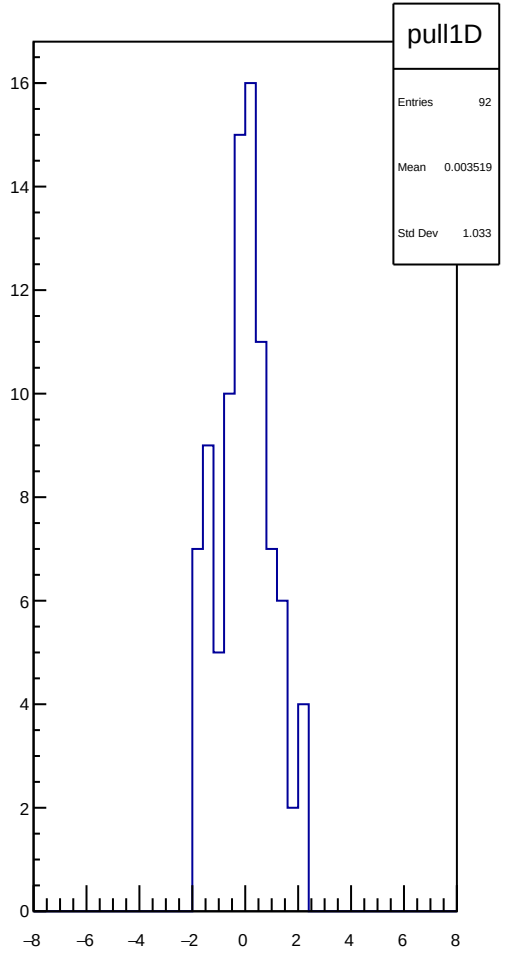

dit_asym_us_dd_atlr_dd_avg_rms vs run
$\chi^2$ / ndf 290.5 / 91
p0 1787 ± 1.364
1860
1840
1820
1800
1780
1760
1740
1720

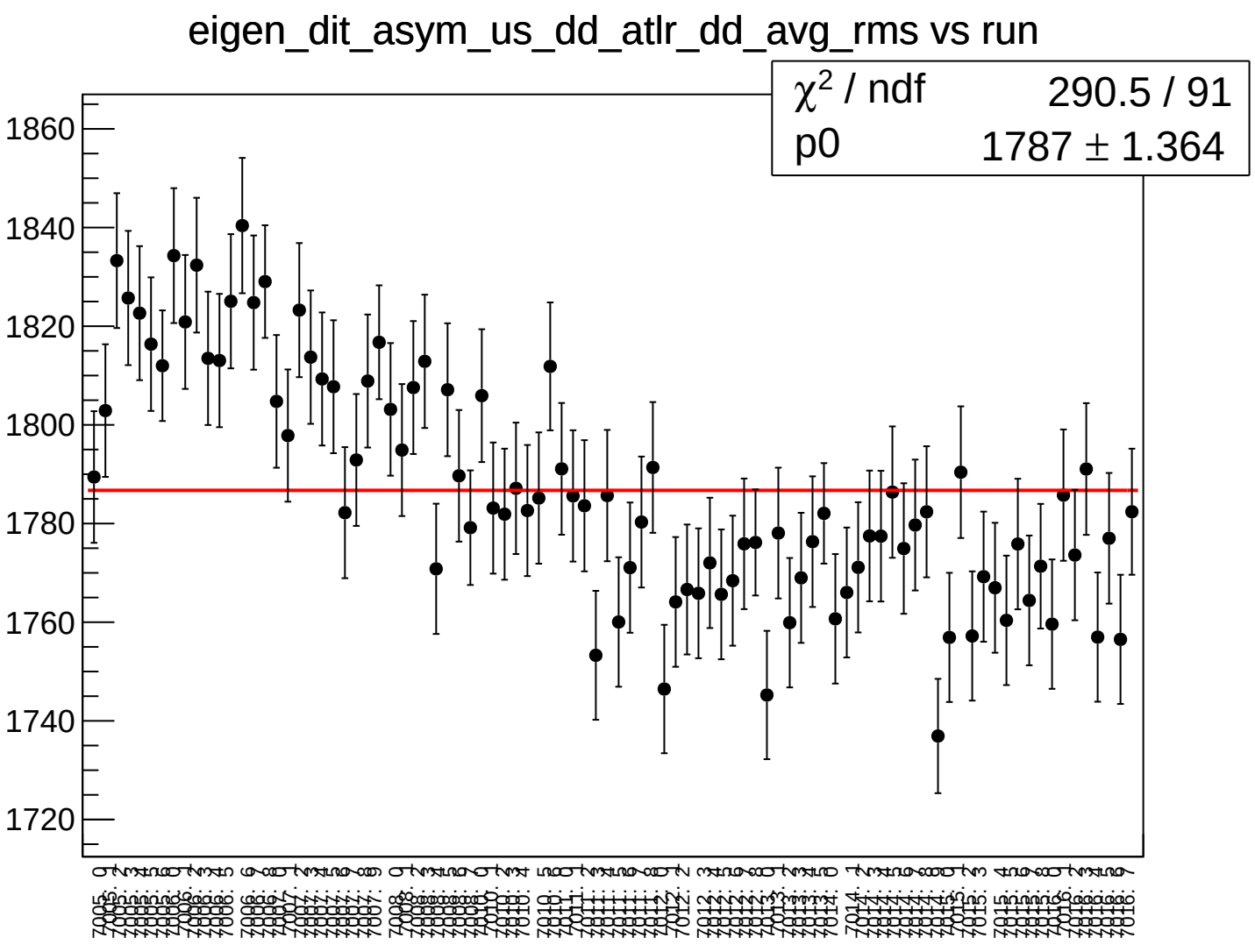

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 75 / 91
p0 −2105 ± 897.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −27.98
Std Dev 22.22
2
1
0
−1
−2

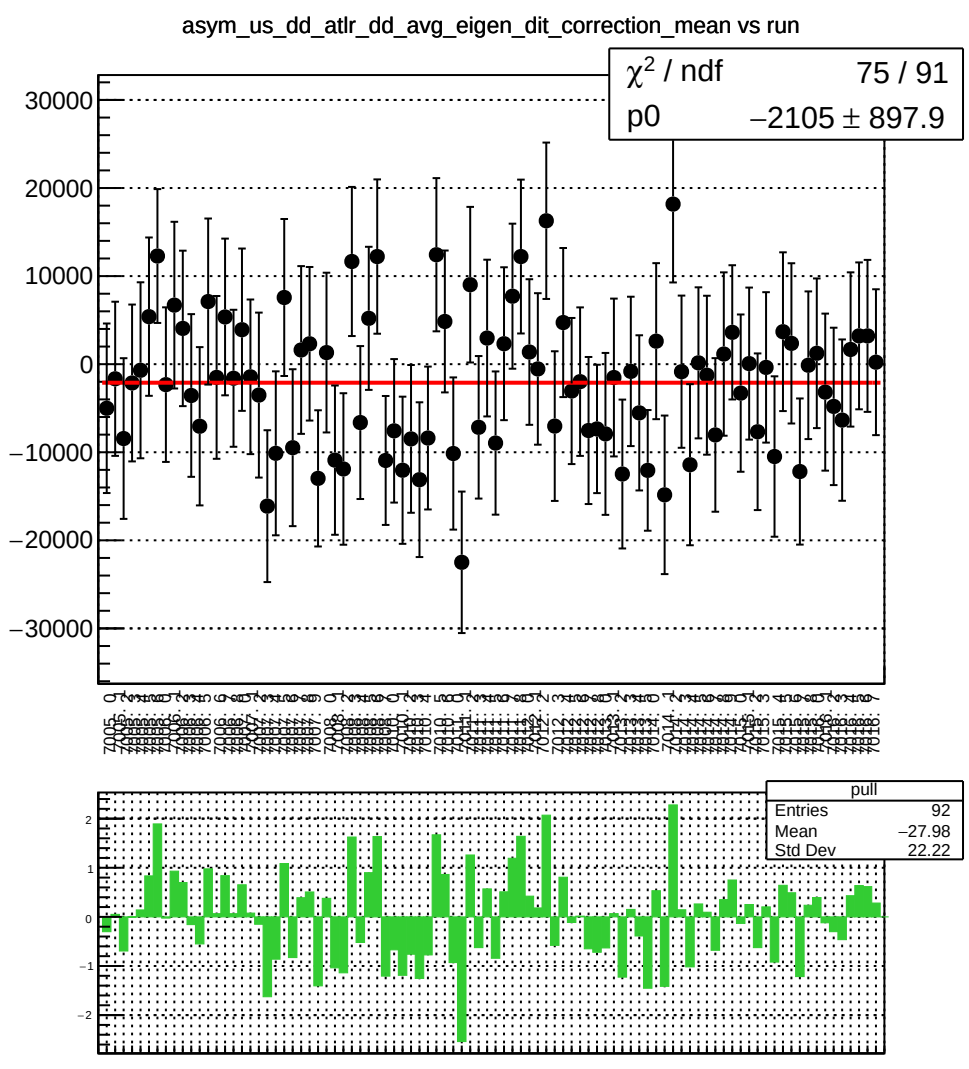

pull1D
Entries 92
Mean 0.01112
Std Dev 0.9028
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

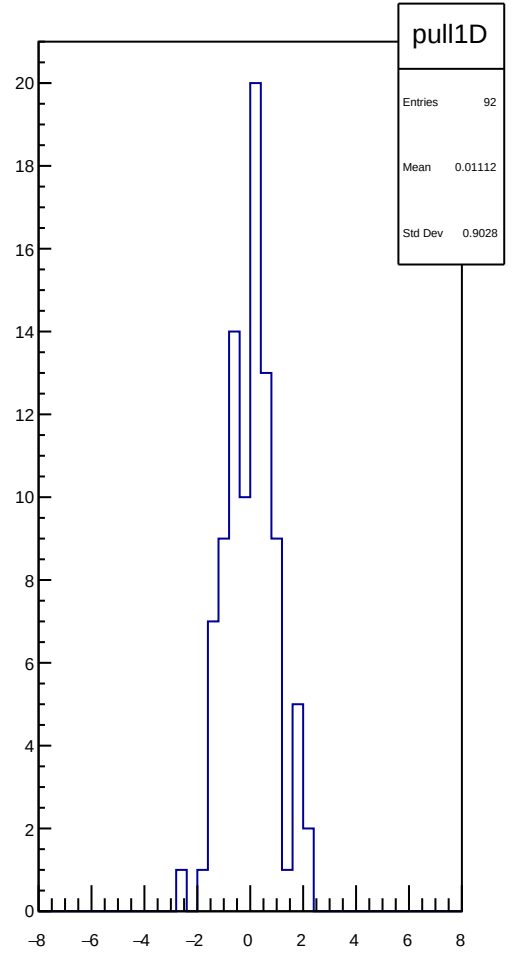

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3053 / 91
p0 830.8 ± 0.6349
950
900
850
800
750

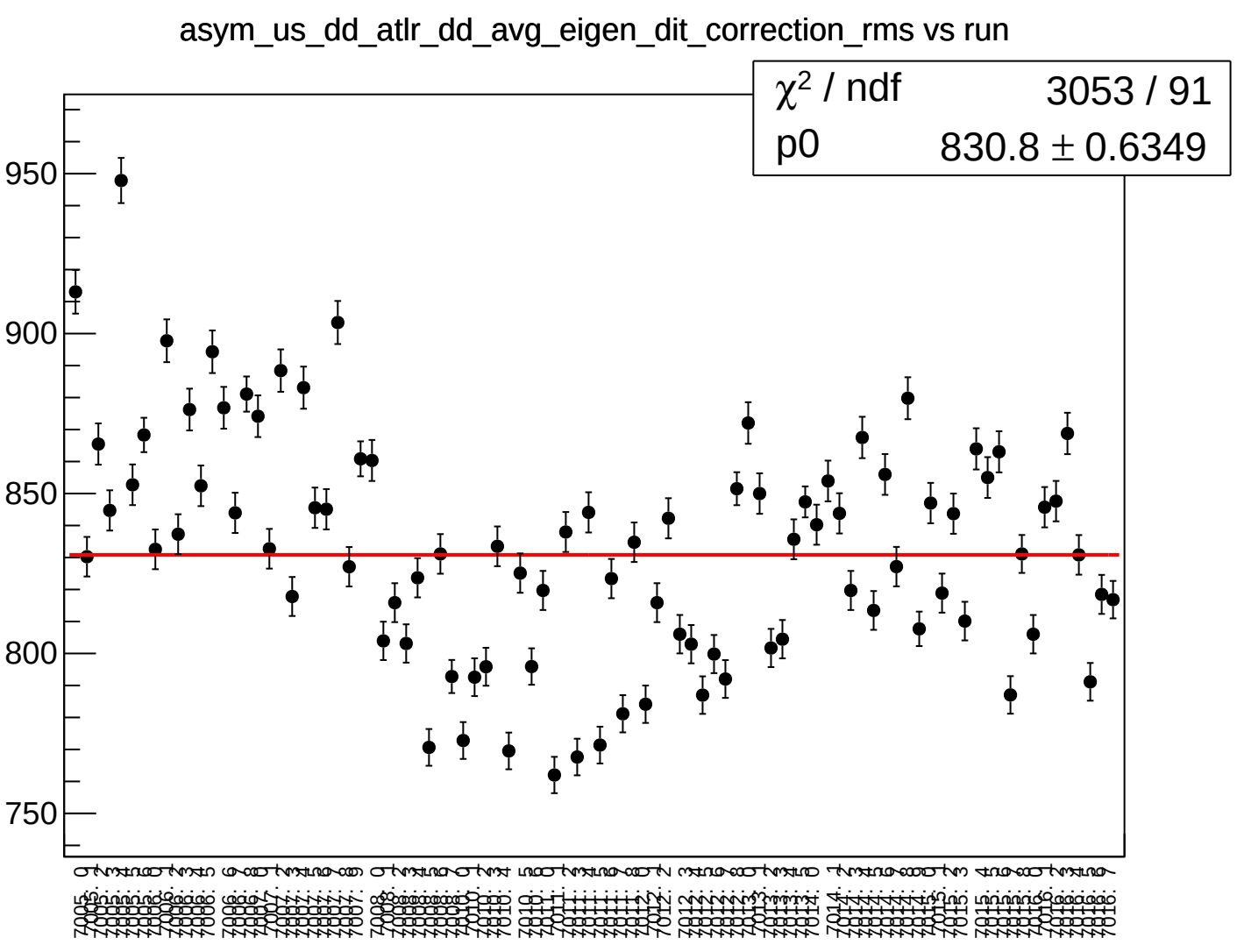

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 98.1 / 91
p0 1590 ± 1929
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 323.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

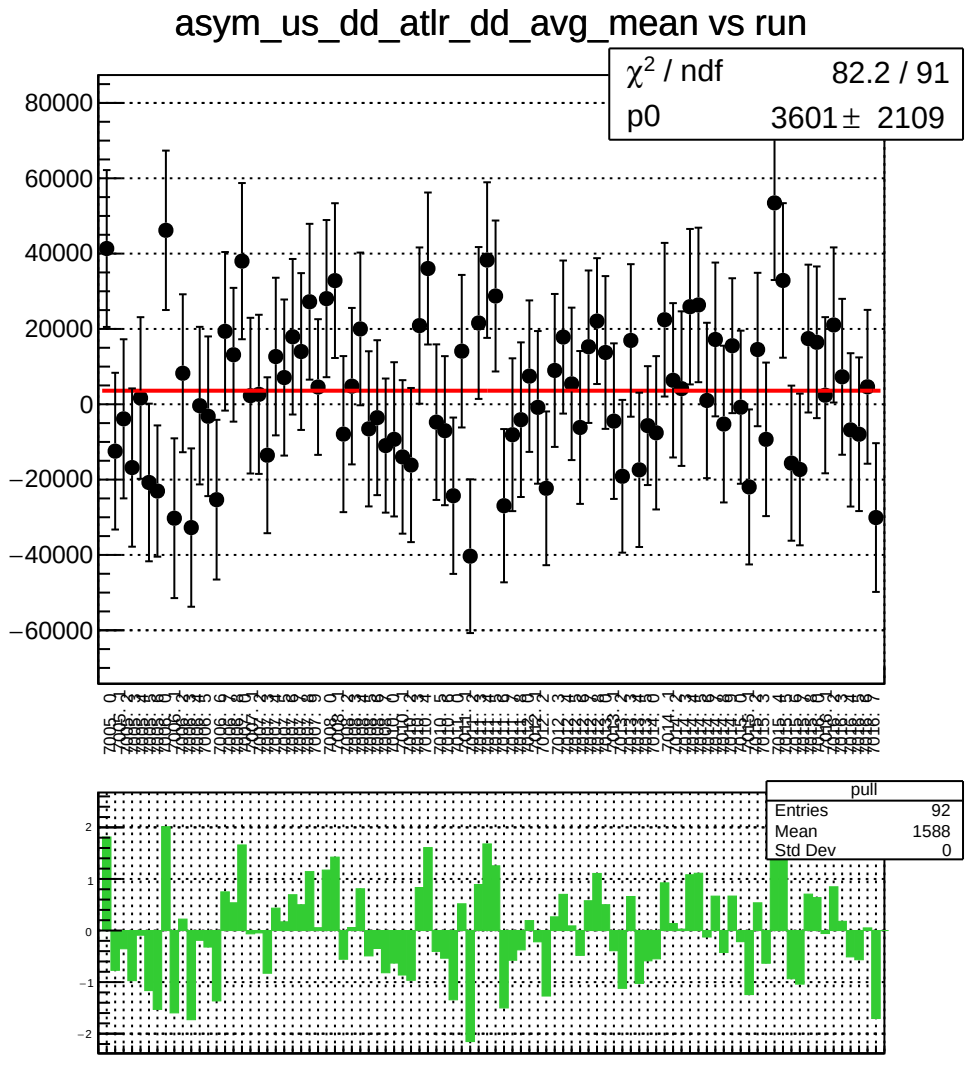

pull1D
Entries 92
Mean 0.003519
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

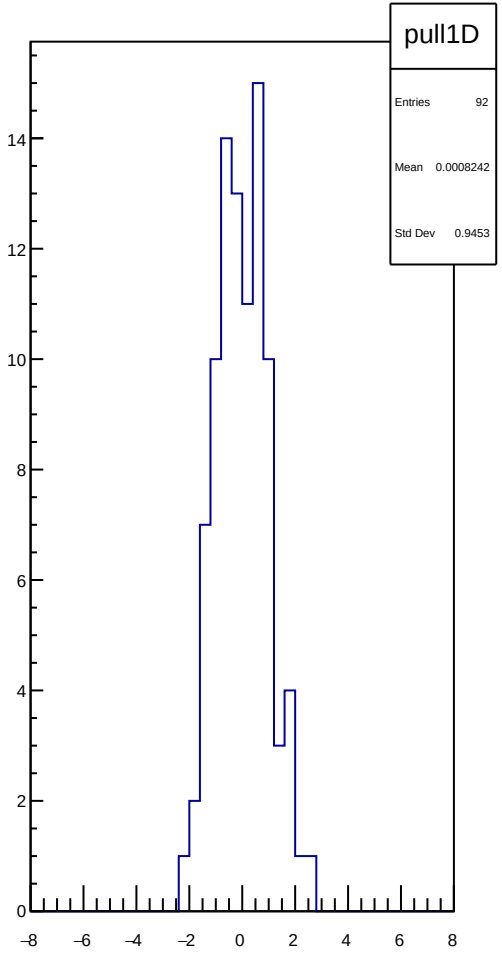

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 290.5 / 91
p0 1787 ± 1.364
1860
1840
1820
1800
1780
1760
1740
1720

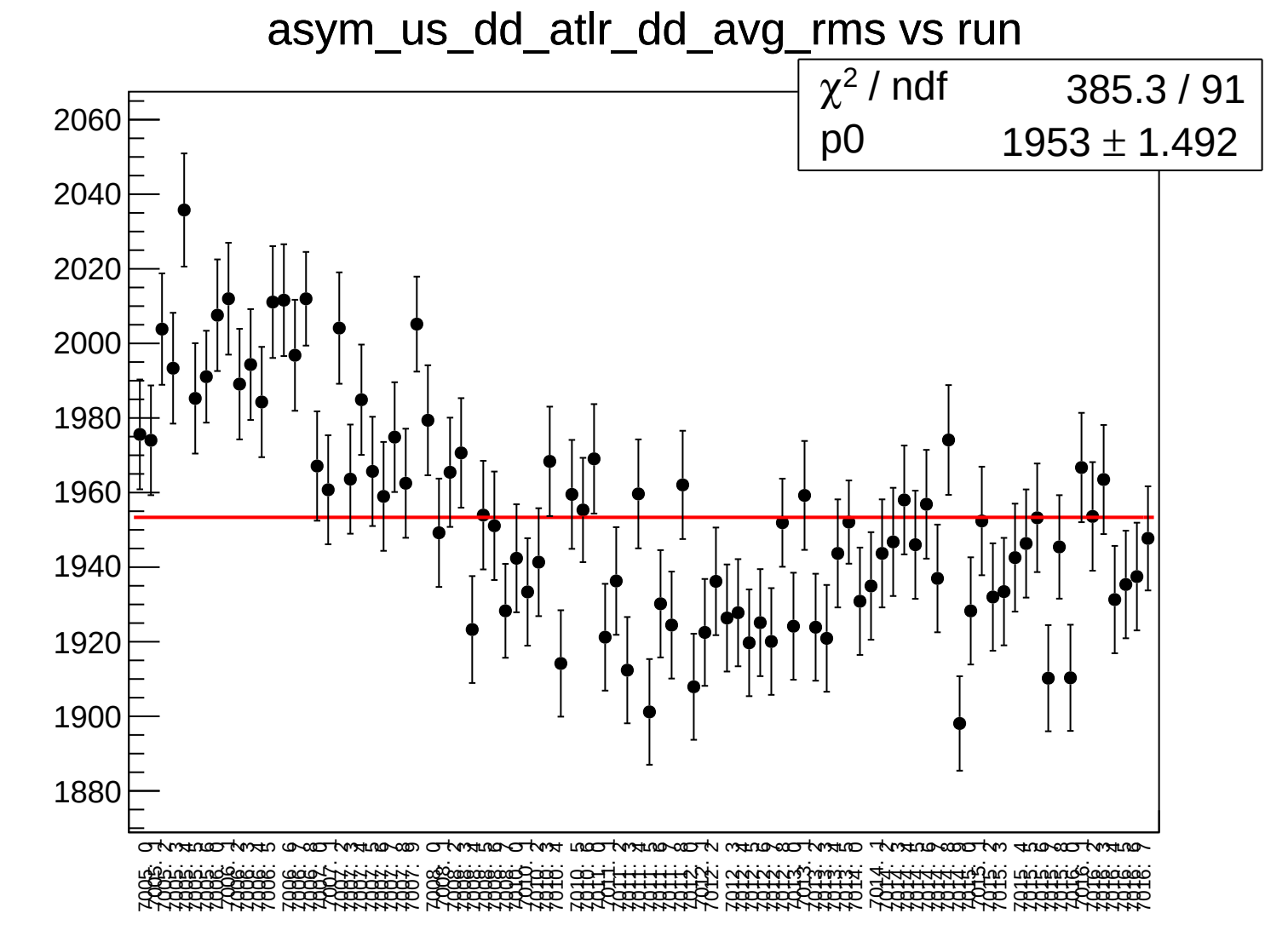

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 75 / 91
p0 −2105 ± 897.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −27.98
Std Dev 22.22
2
1
0
−1
−2

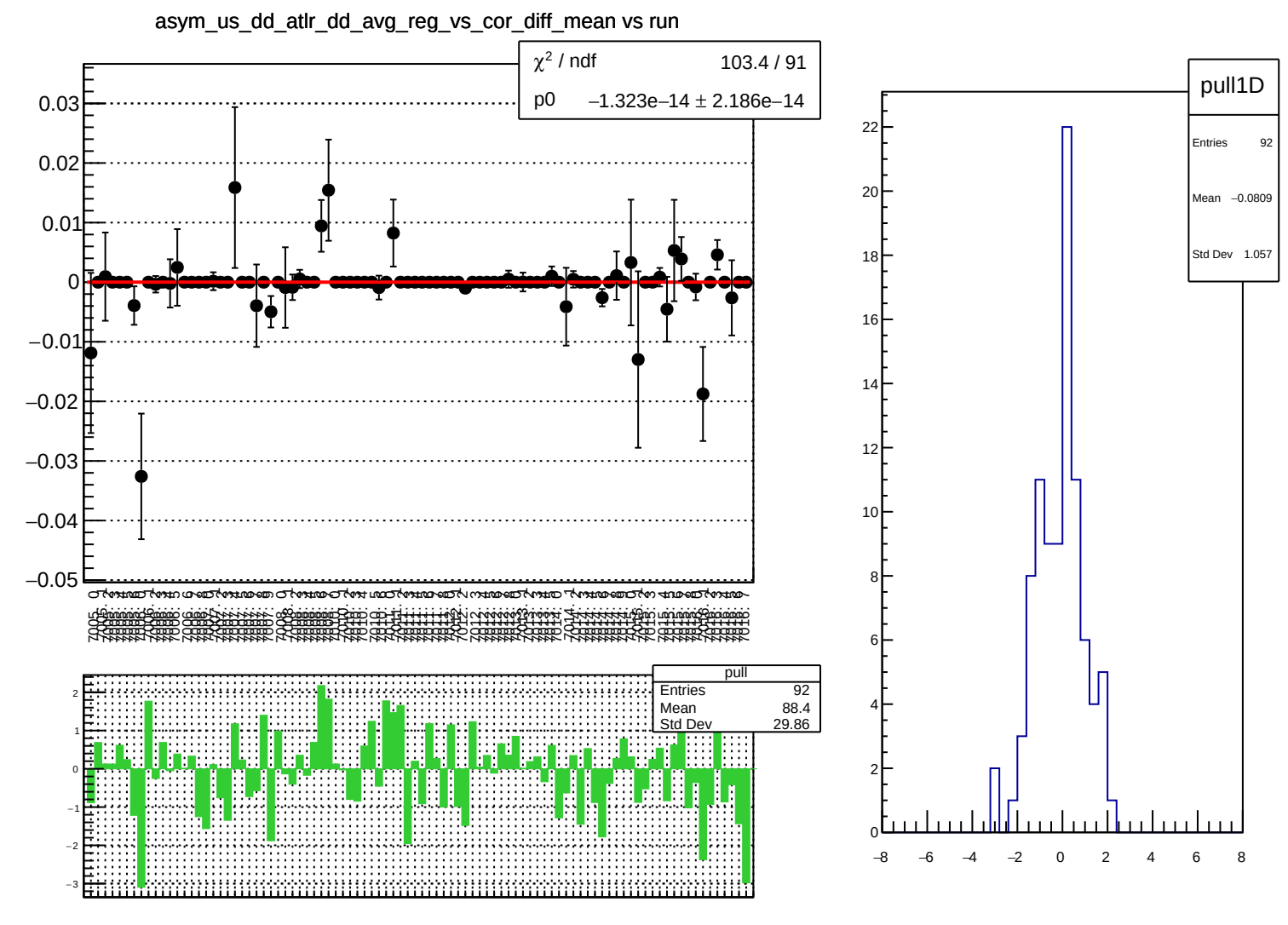

pull1D
Entries 92
Mean 0.01112
Std Dev 0.9028
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

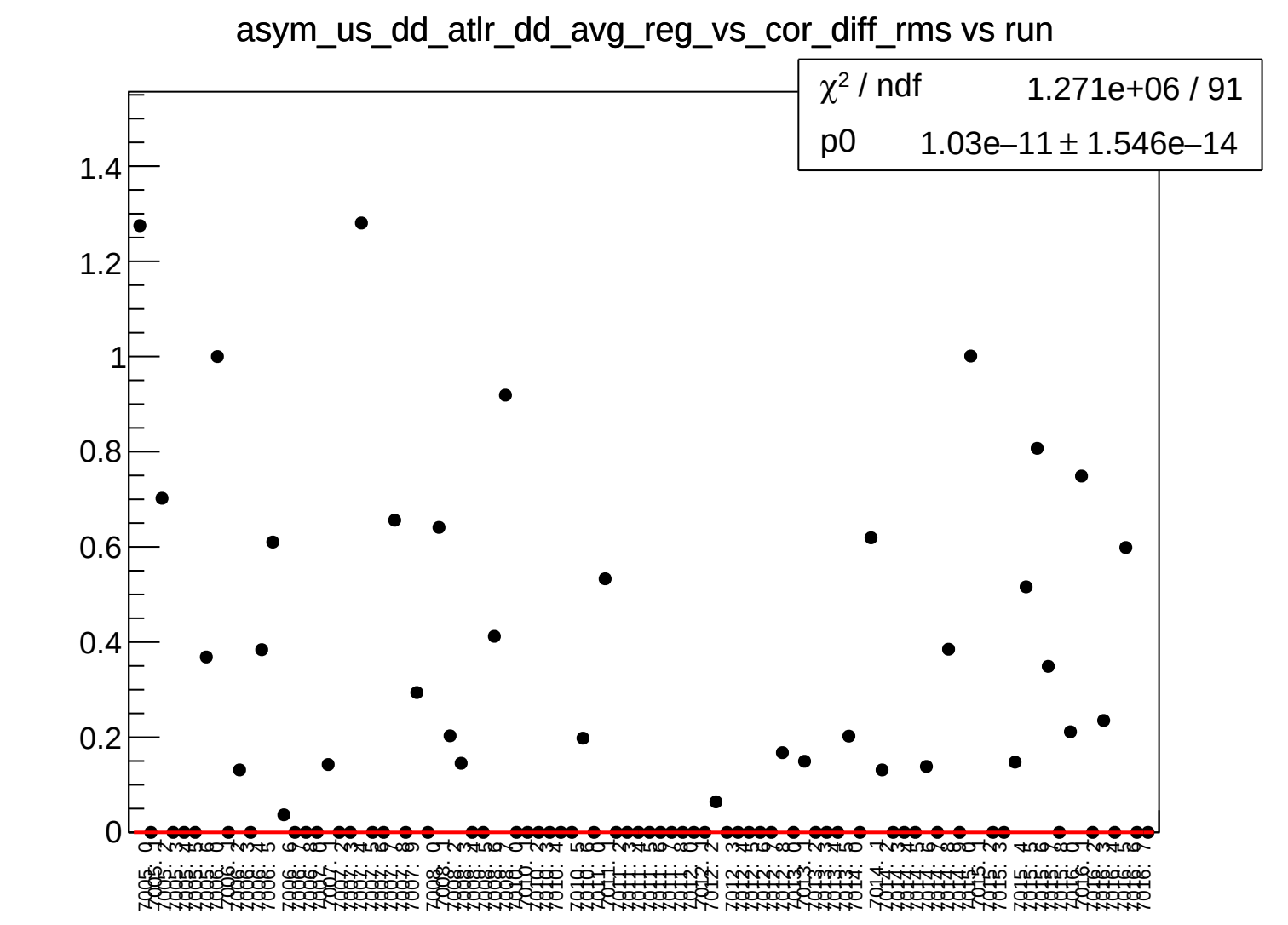

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3053 / 91
p0 830.8 ± 0.6349
950
900
850
800
750

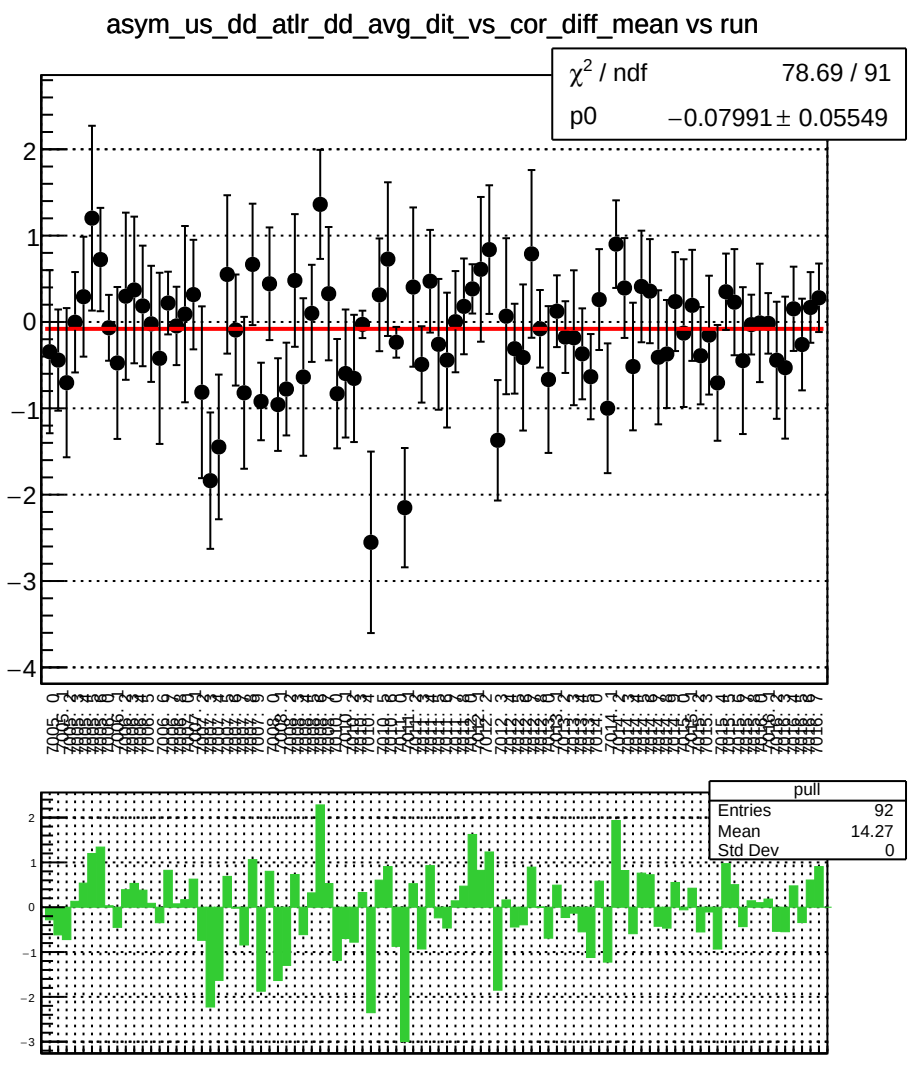

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 82.2 / 91
p0 3601 ± 2109
pull
Entries 92
Mean 1588
Std Dev 0

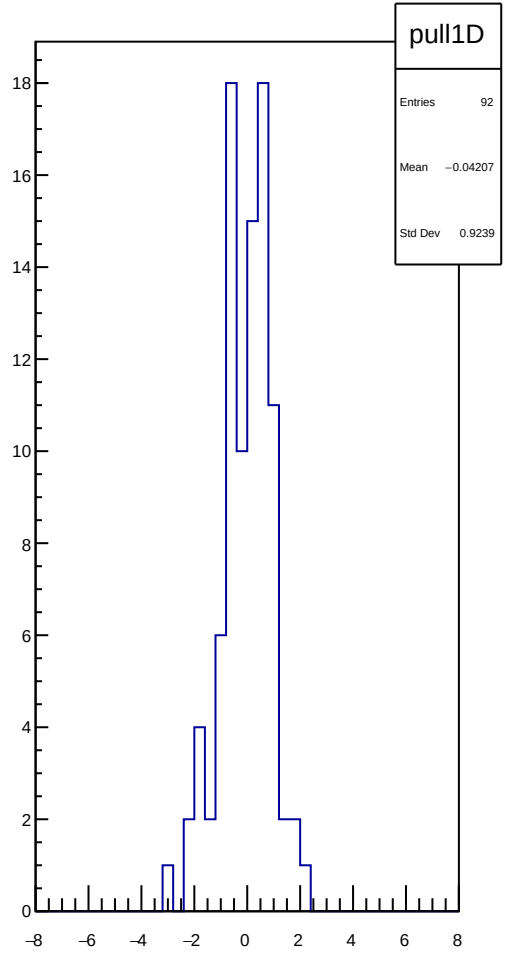

pull1D
Entries 92
Mean 0.0008242
Std Dev 0.9453

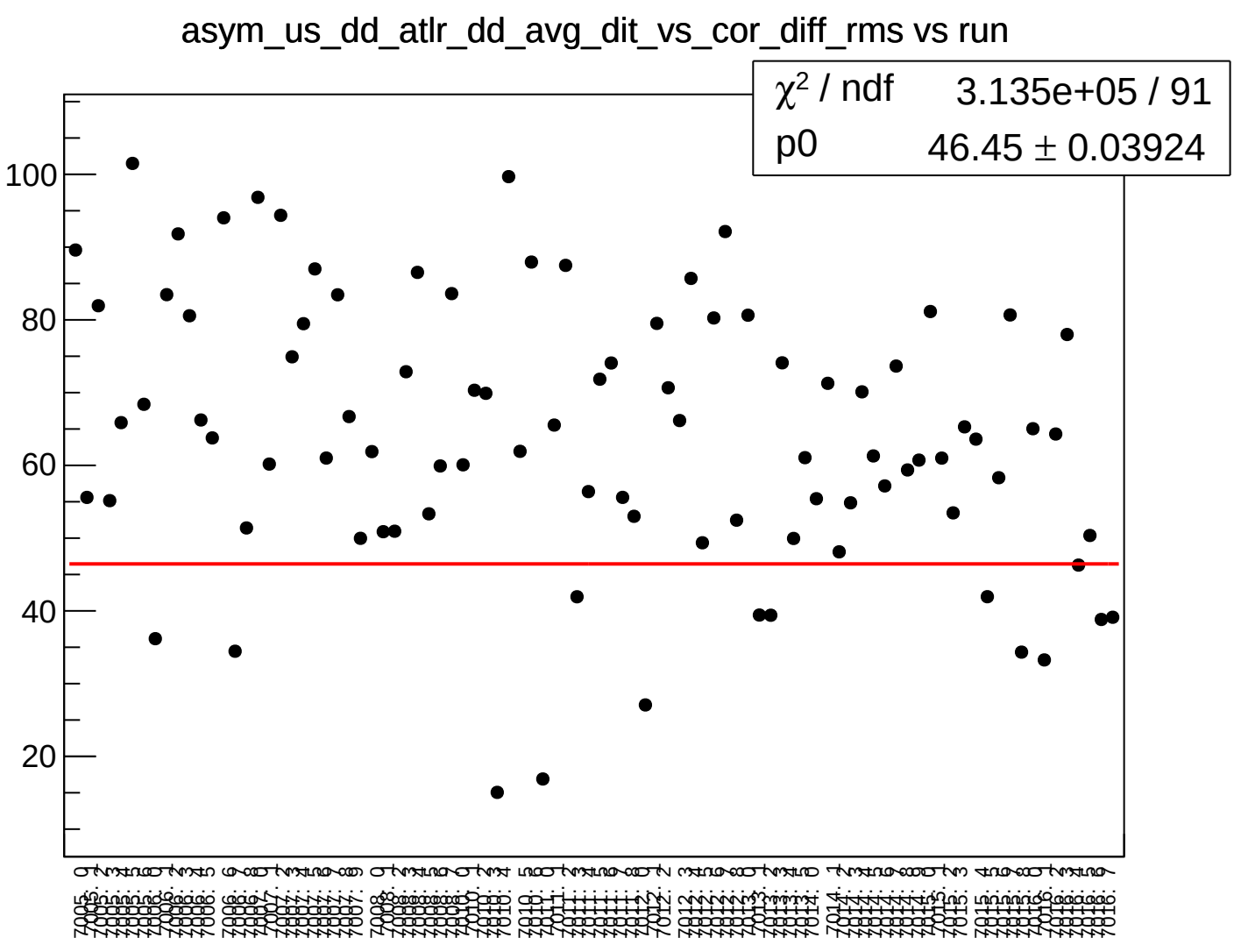

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 385.3 / 91
p0 1953 ± 1.492
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

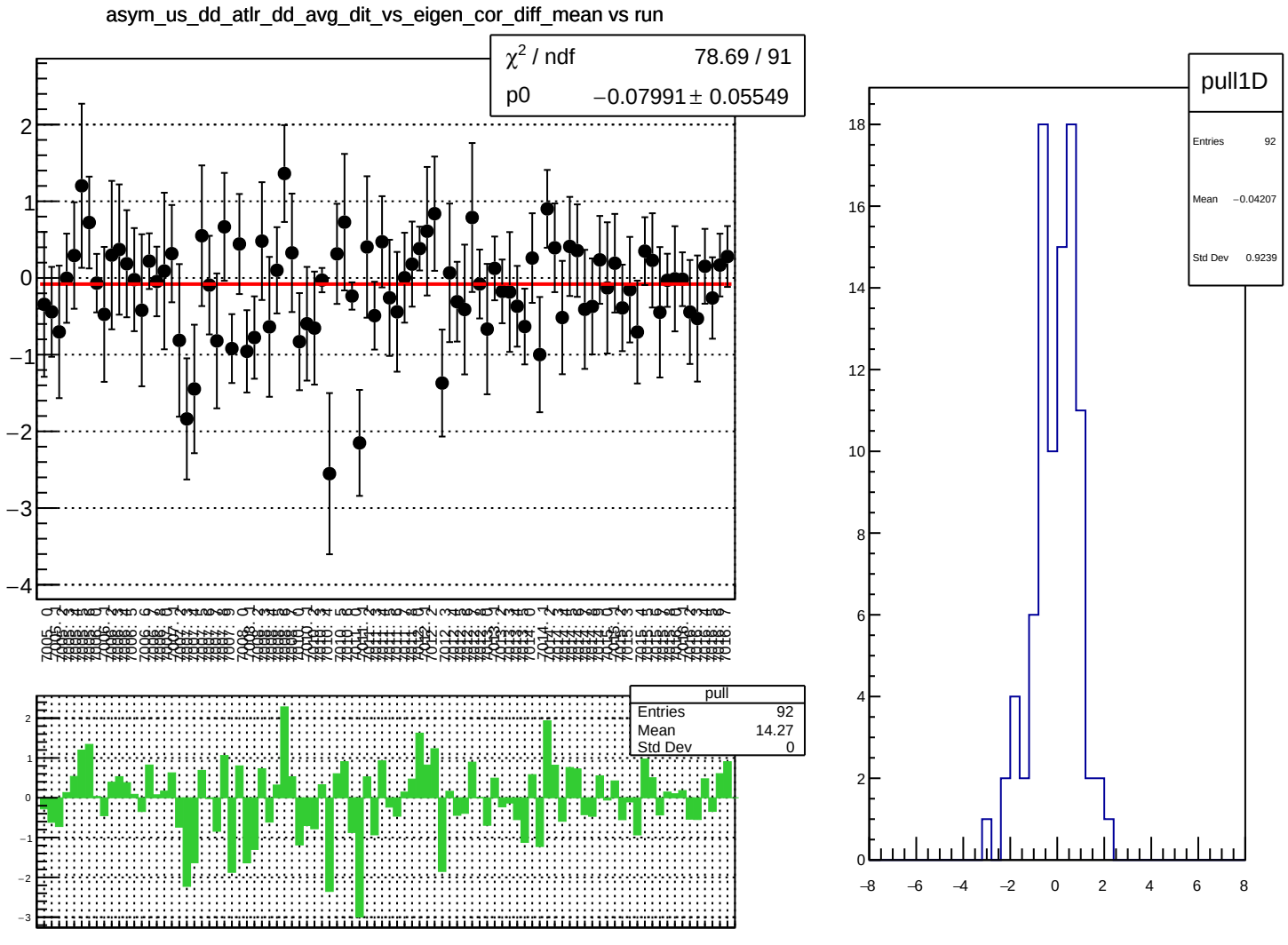

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.4 / 91
p0 −1.323e−14 ± 2.186e−14
pull
Entries 92
Mean 88.4
Std Dev 29.86
pull1D
Entries 92
Mean −0.0809
Std Dev 1.057

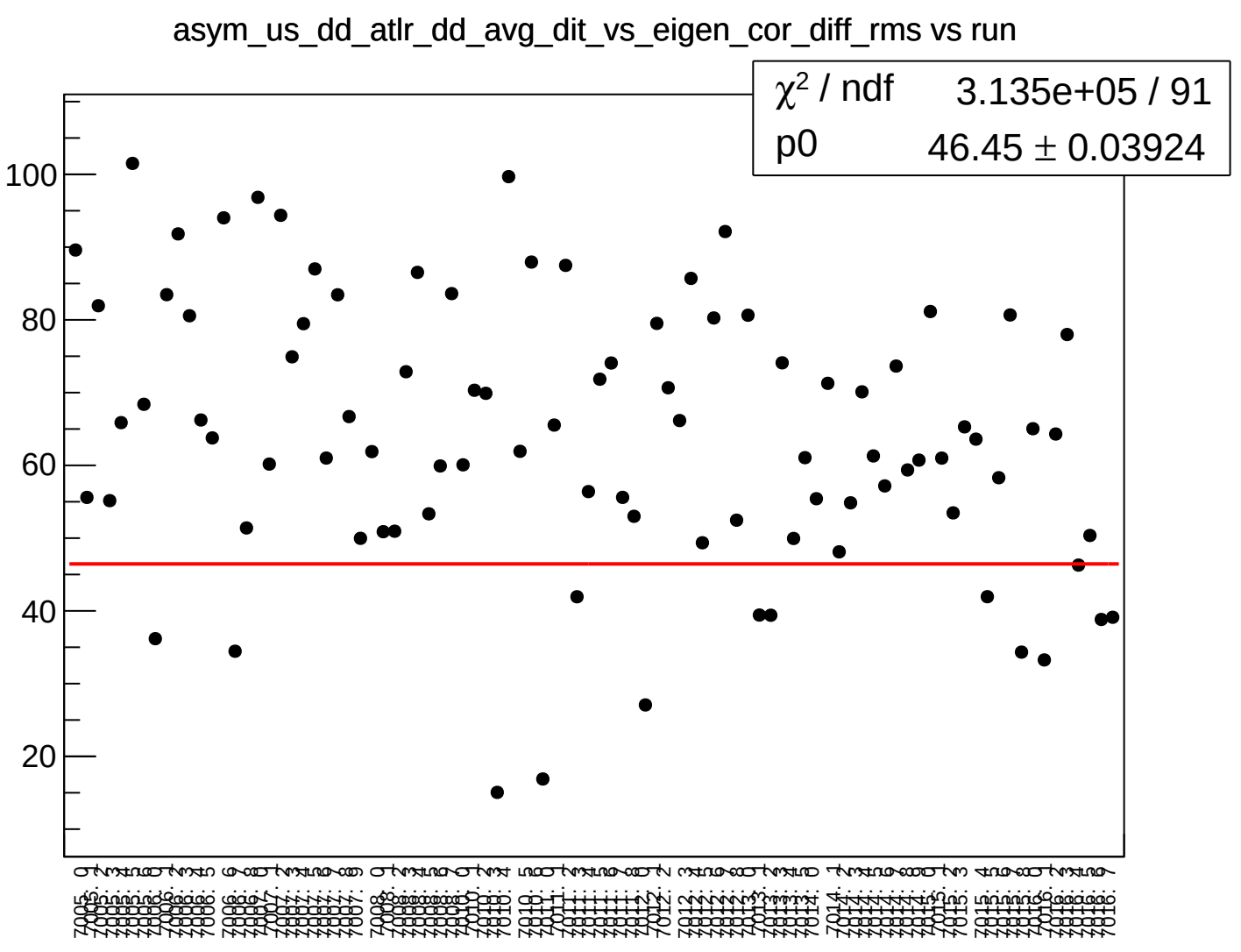

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.271e+06 / 91
p0 1.03e−11 ± 1.546e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

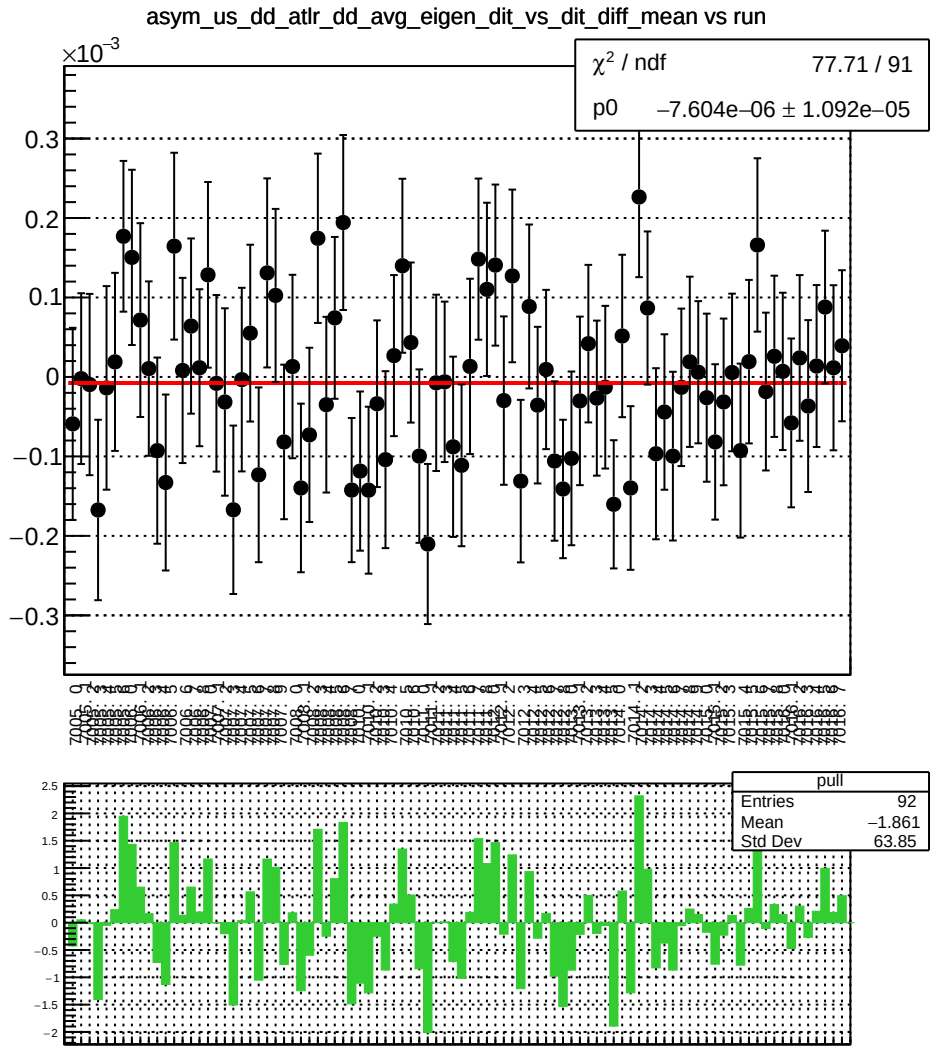

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.69 / 91
p0 −0.07991 ± 0.05549
pull
Entries 92
Mean 14.27
Std Dev 0

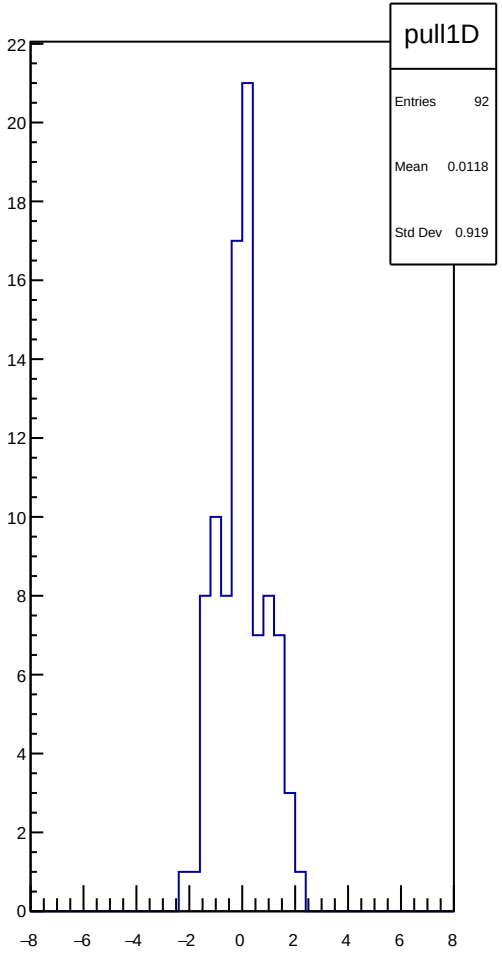

pull1D
Entries 92
Mean −0.04207
Std Dev 0.9239

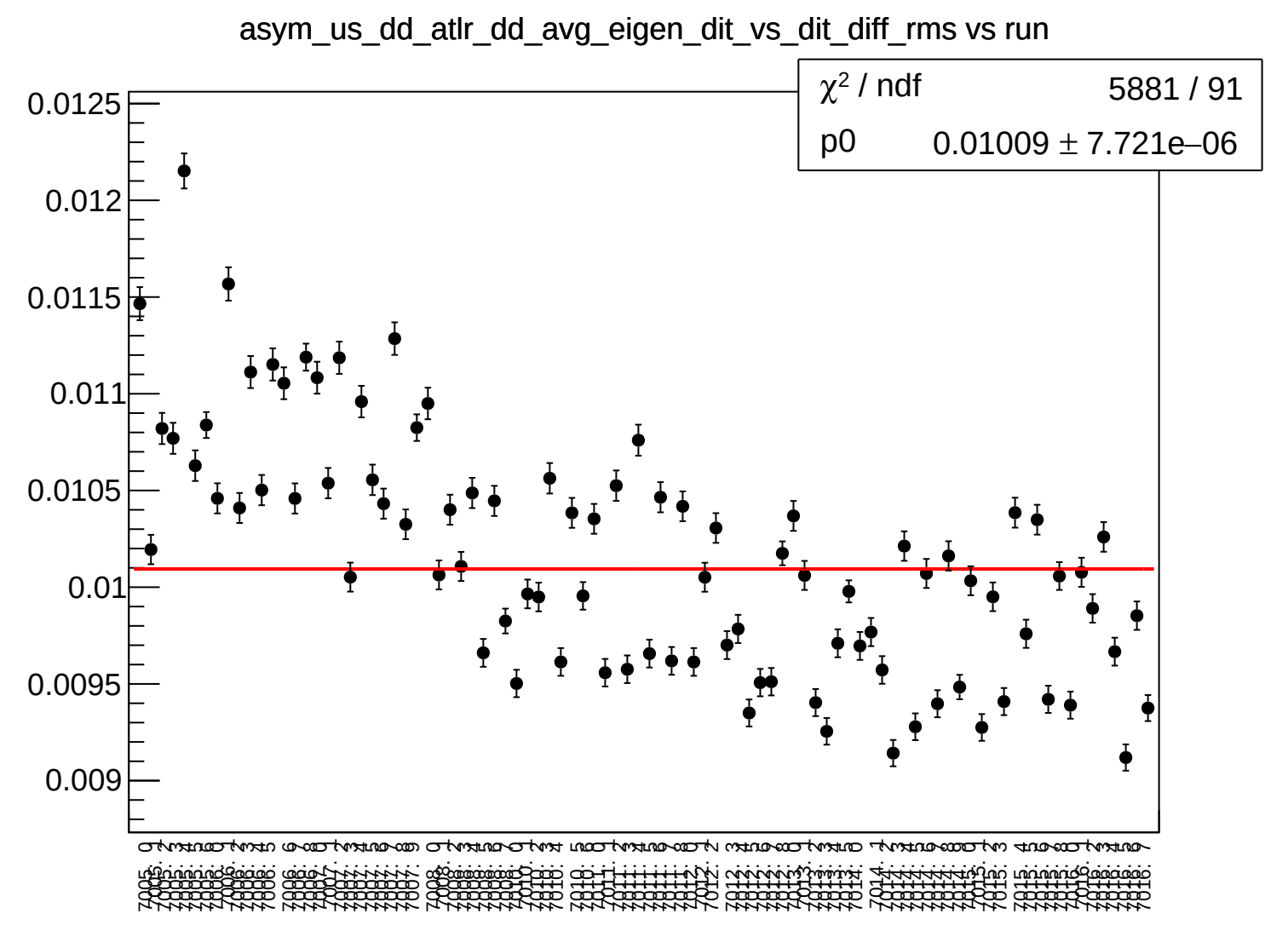

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.135e+05 / 91
p0 46.45 ± 0.03924
100
80
60
40
20

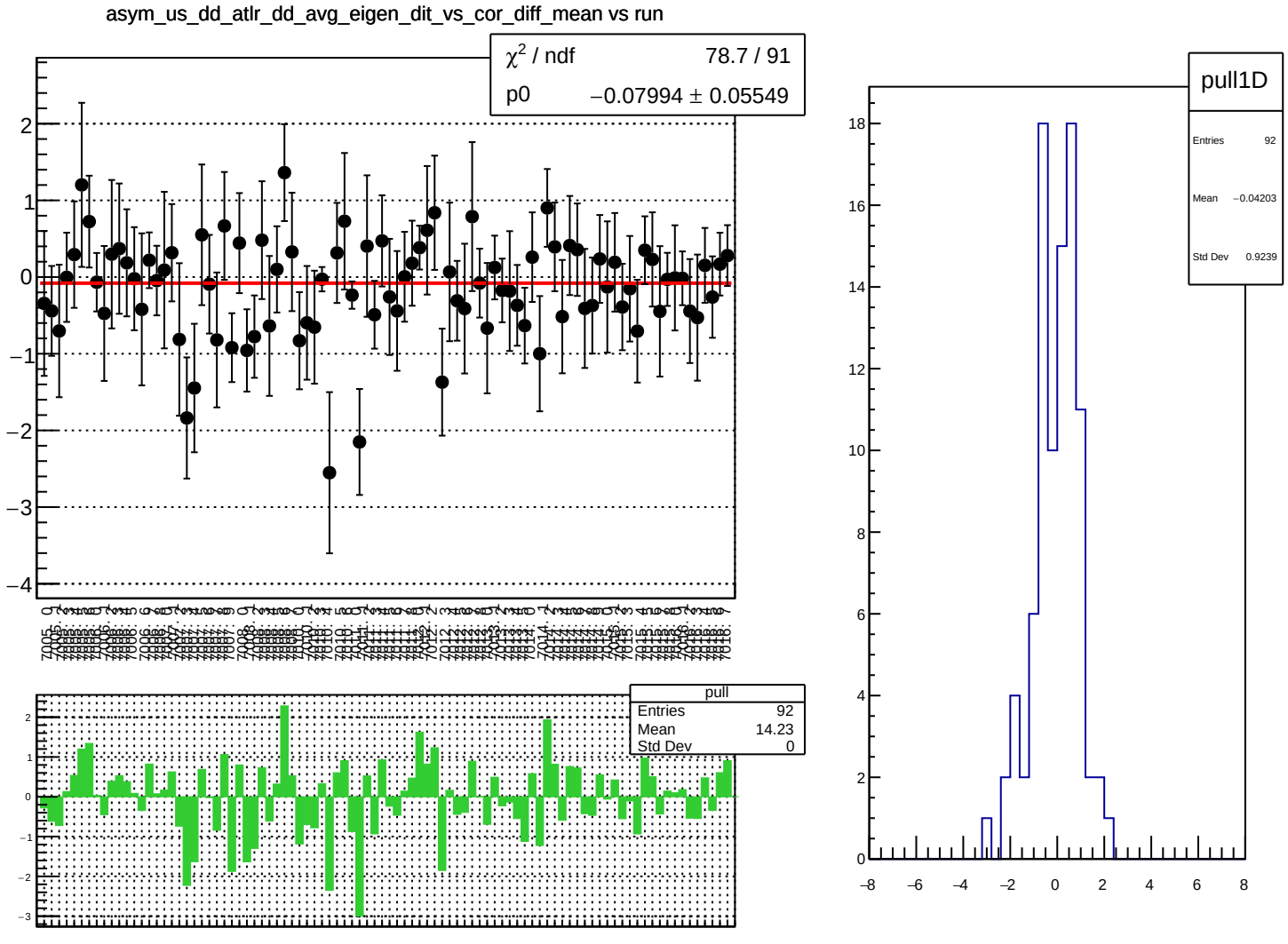

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.69 / 91
p0 −0.07991 ± 0.05549
pull
Entries 92
Mean 14.27
Std Dev 0
pull1D
Entries 92
Mean −0.04207
Std Dev 0.9239

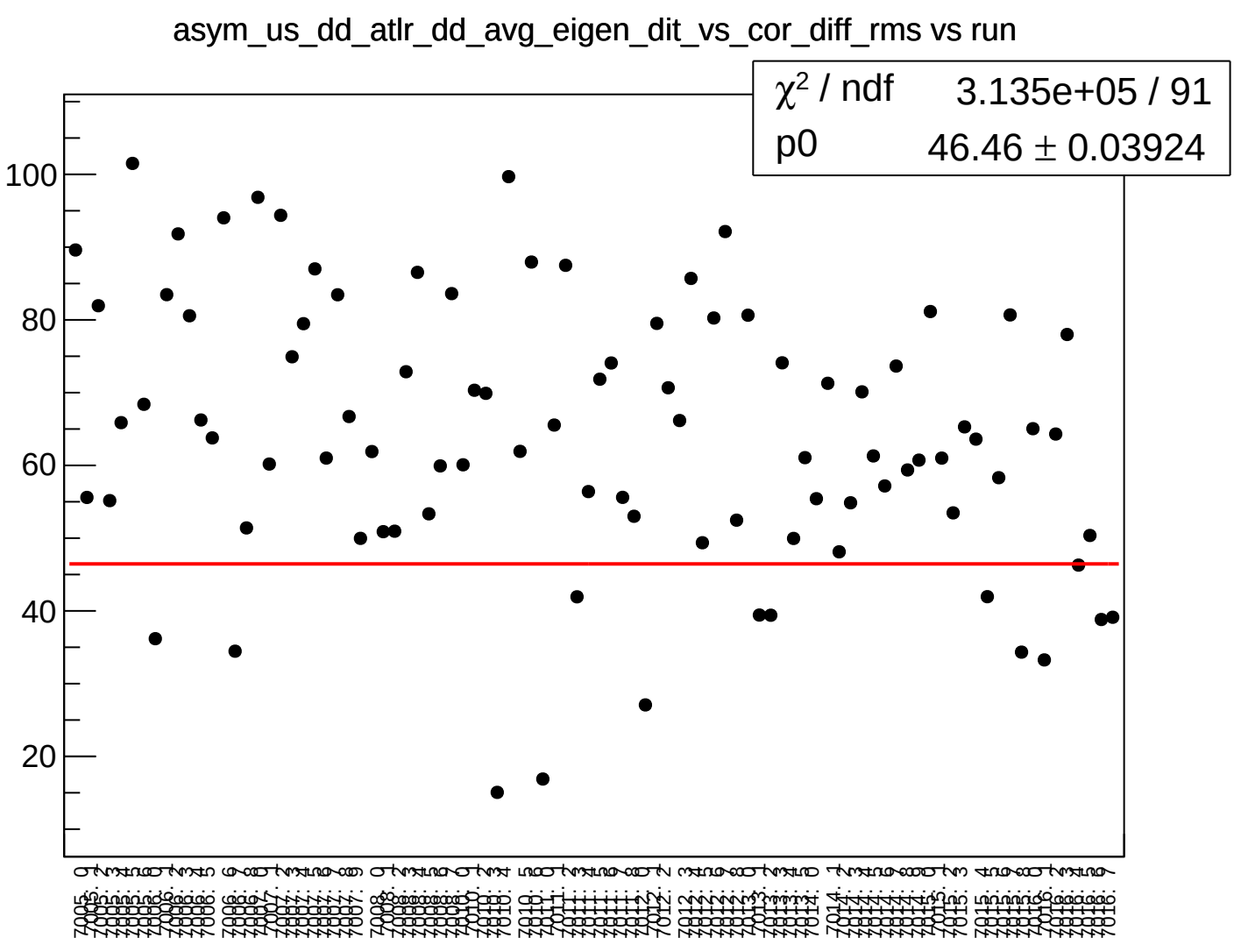

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.135e+05 / 91
p0 46.45 ± 0.03924
100
80
60
40
20

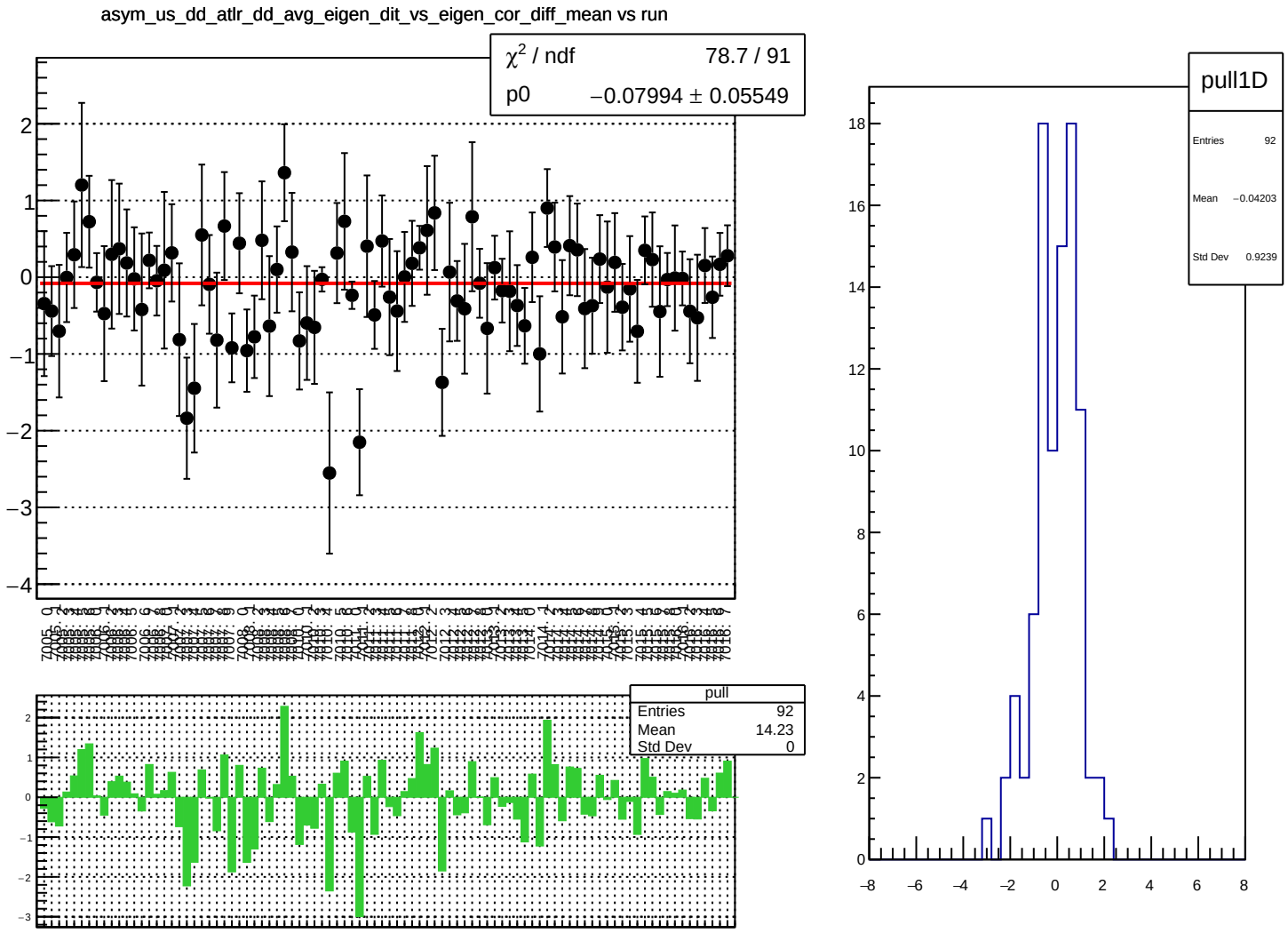

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.71 / 91
p0 −7.604e−06 ± 1.092e−05
pull
Entries 92
Mean −1.861
Std Dev 63.85

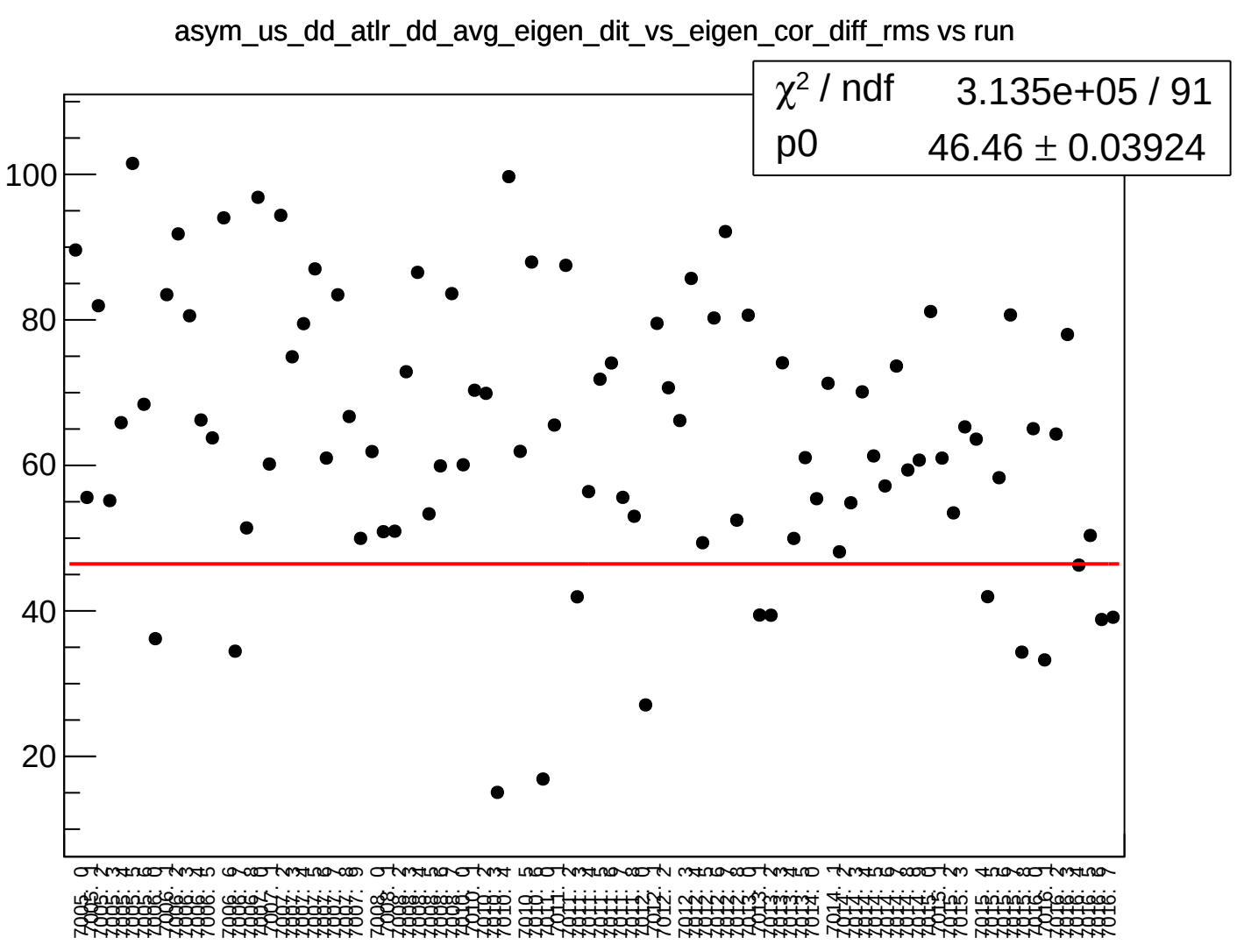

pull1D
Entries 92
Mean 0.0118
Std Dev 0.919

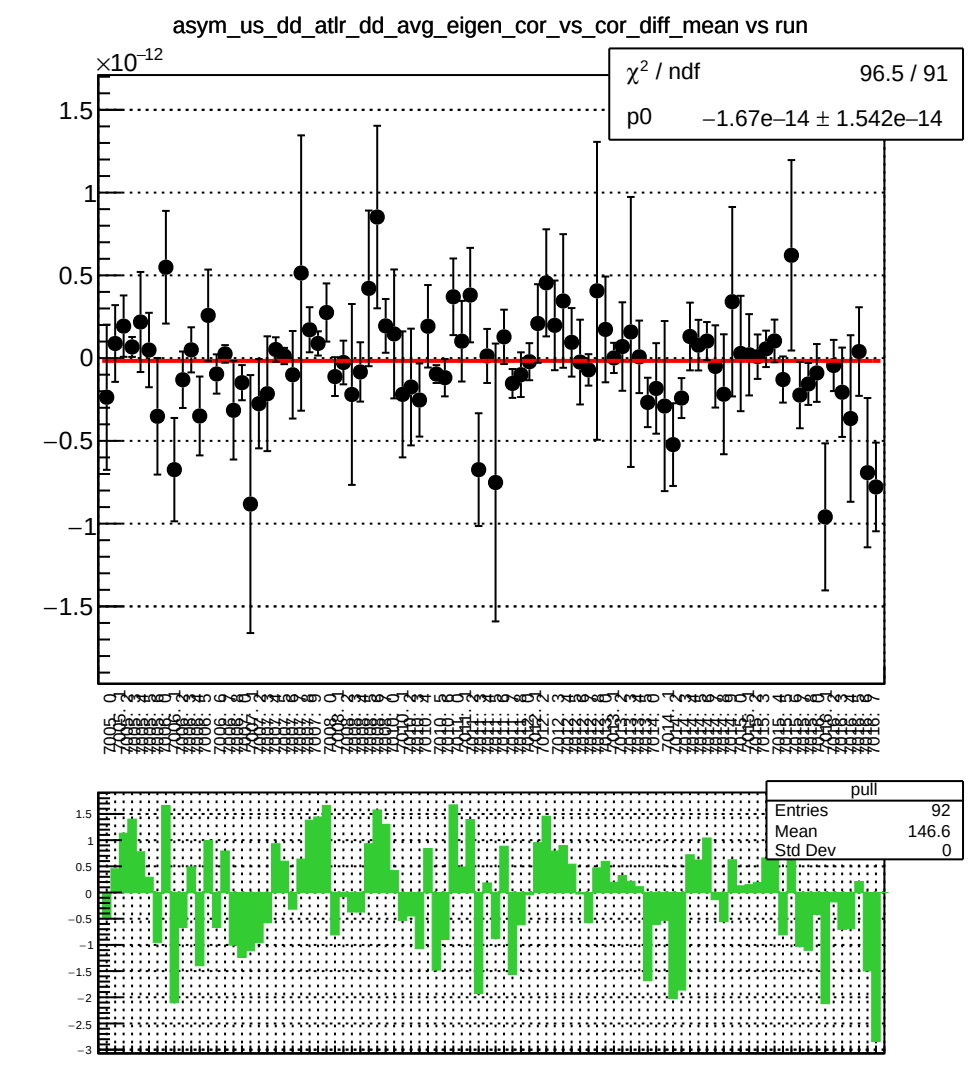

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5881 / 91
p0 0.01009 ± 7.721e–06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

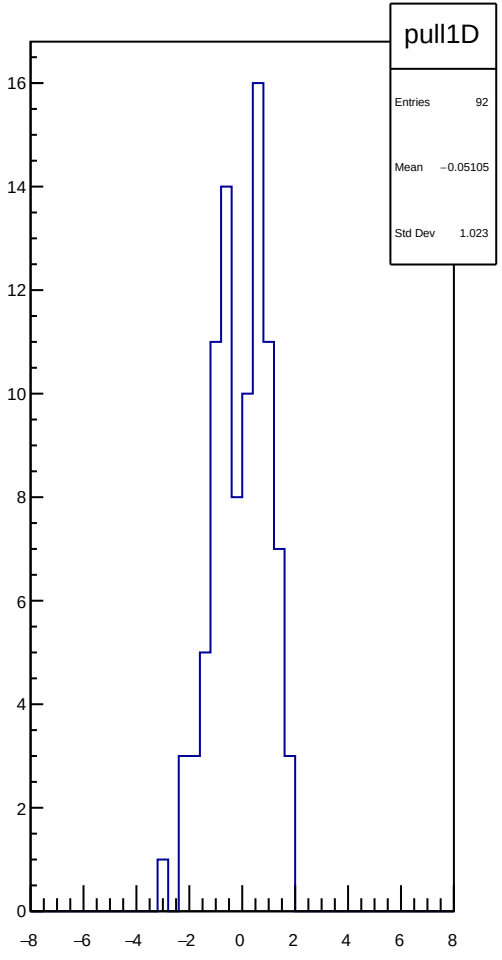

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.7 / 91
p0 −0.07994 ± 0.05549
pull
Entries 92
Mean 14.23
Std Dev 0
pull1D
Entries 92
Mean −0.04203
Std Dev 0.9239

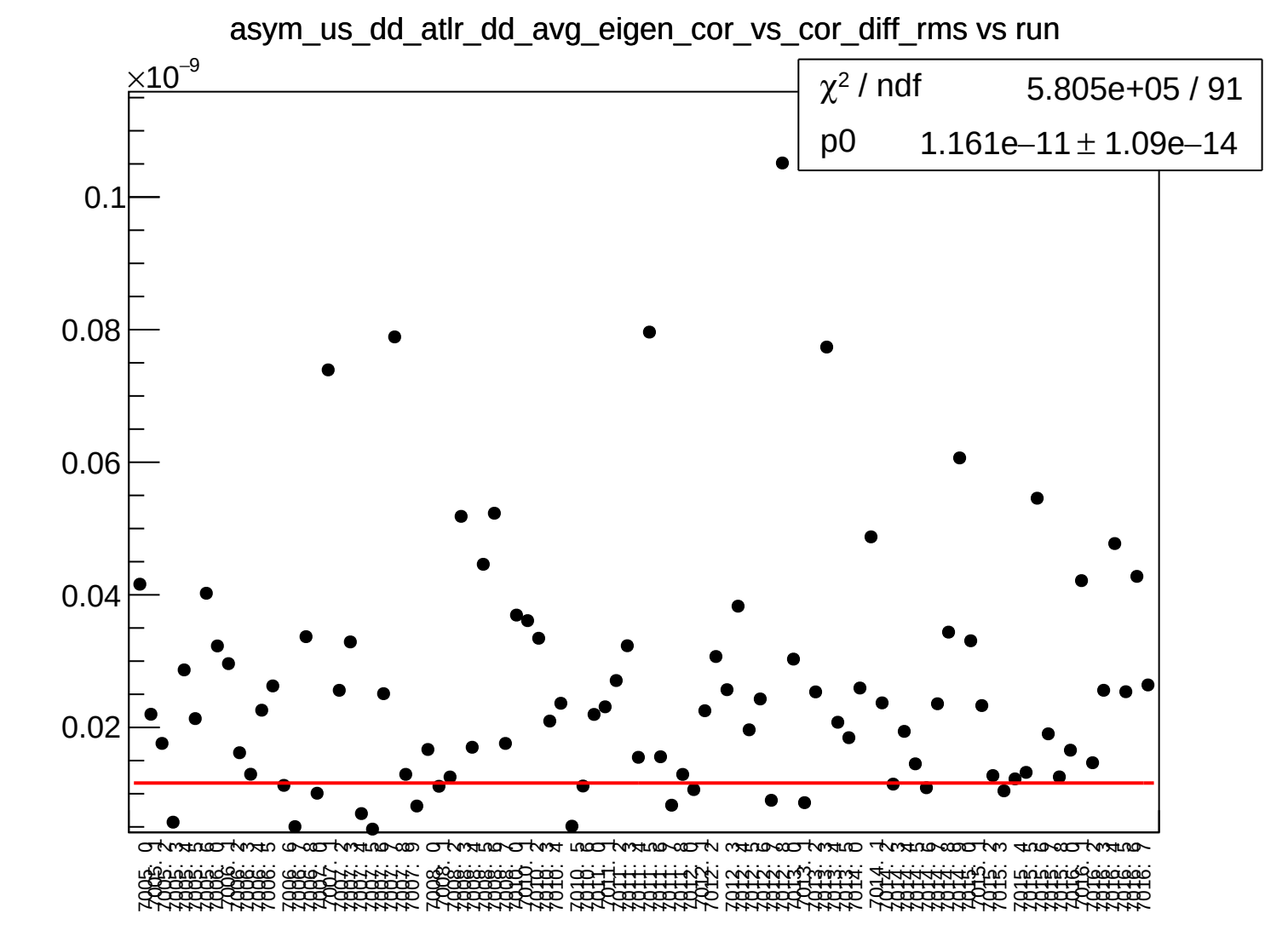

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.135e+05 / 91
p0 46.46 ± 0.03924
100
80
60
40
20

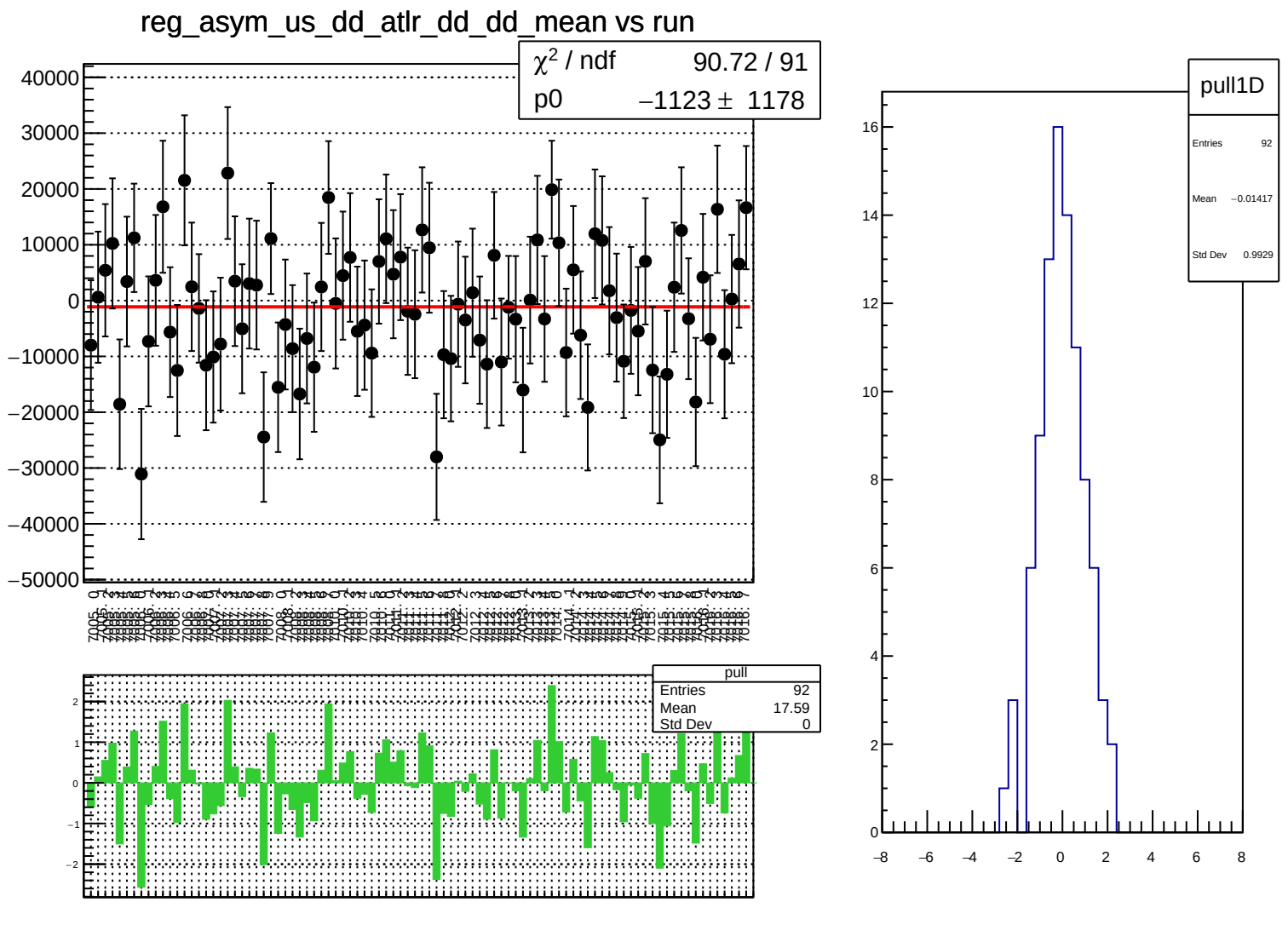

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.7 / 91
p0 −0.07994 ± 0.05549
pull
Entries 92
Mean 14.23
Std Dev 0
pull1D
Entries 92
Mean −0.04203
Std Dev 0.9239

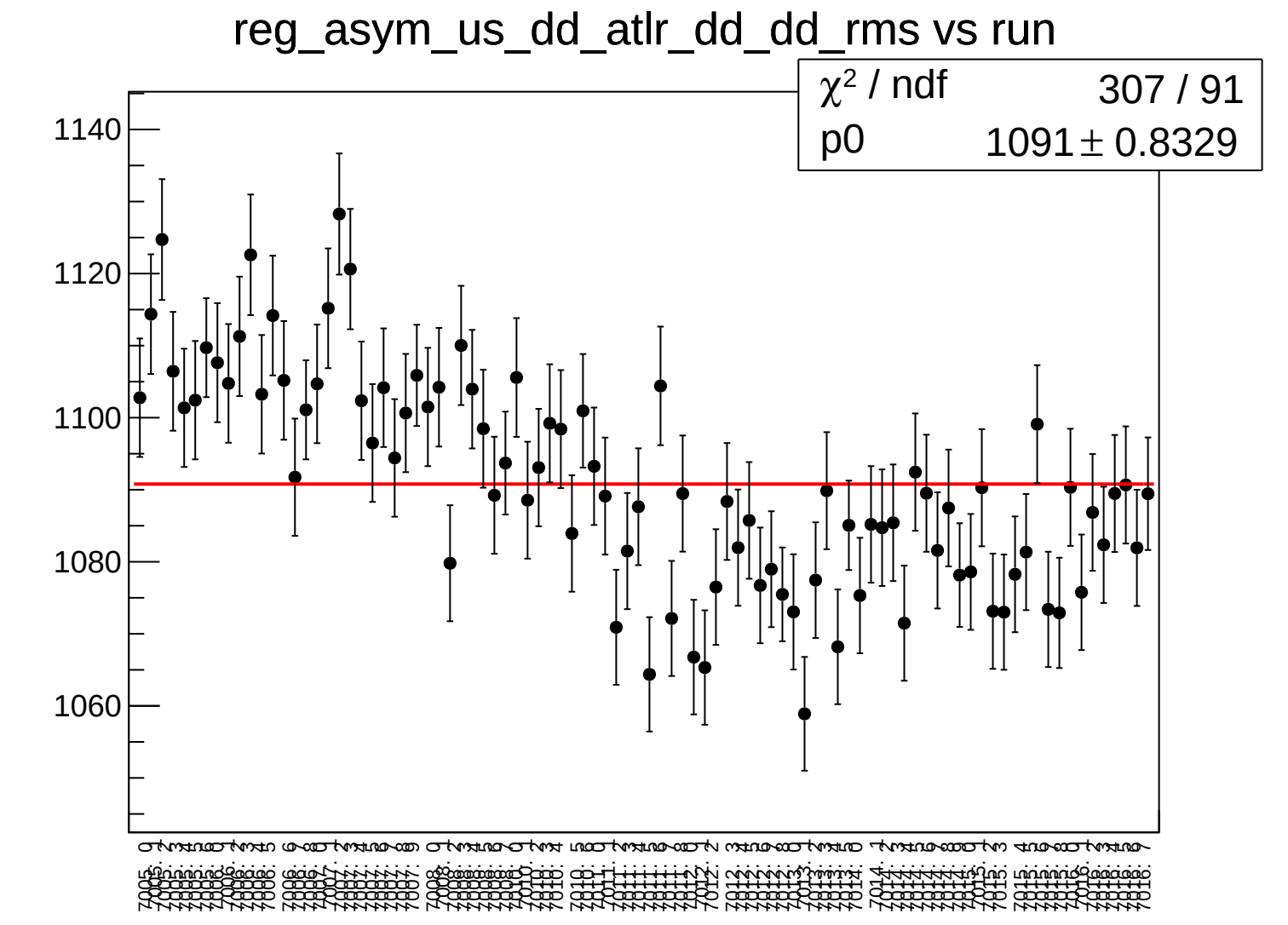

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.135e+05 / 91
p0 46.46 ± 0.03924
100
80
60
40
20

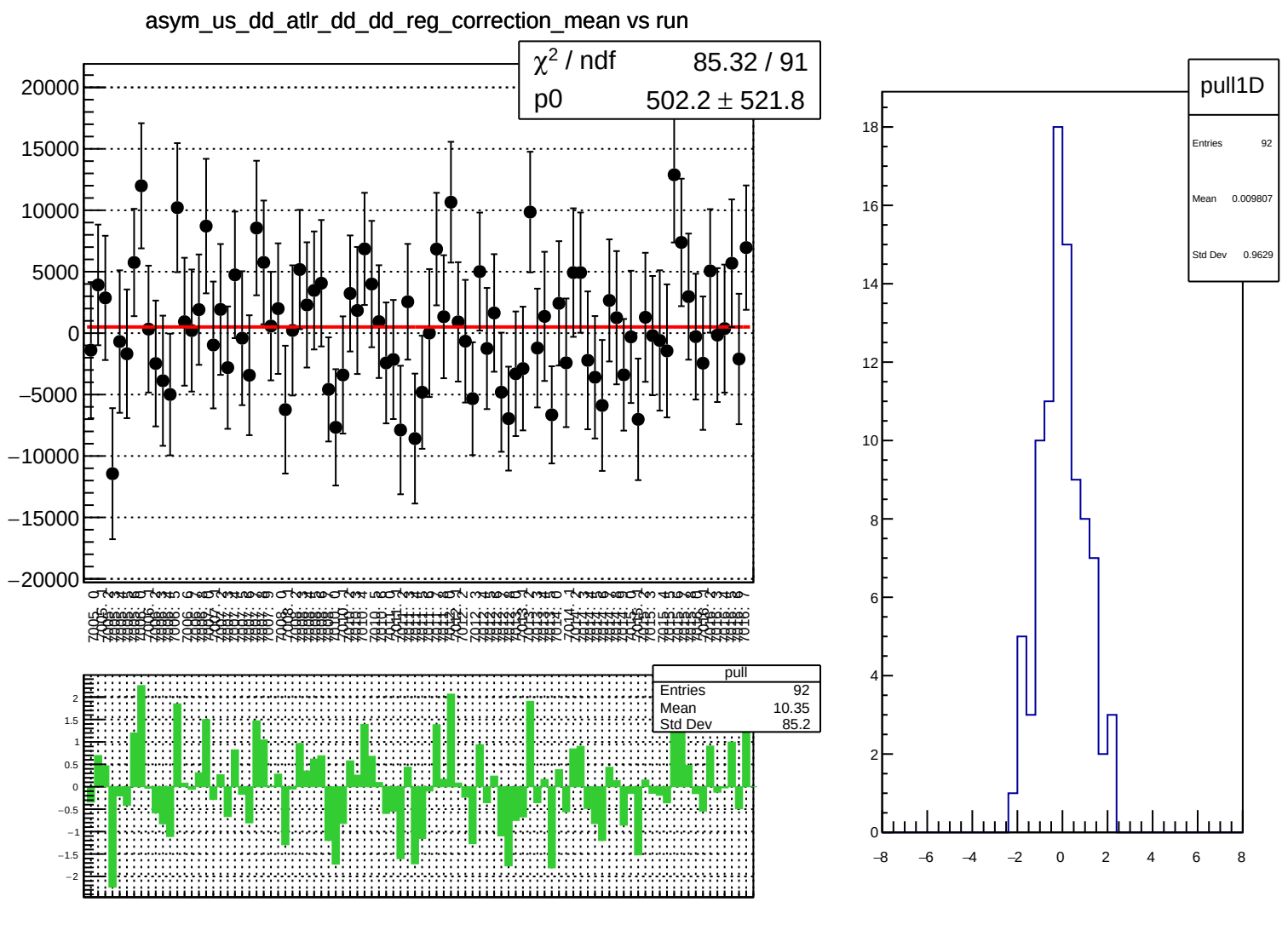

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 96.5 / 91
p0 −1.67e−14 ± 1.542e−14
pull
Entries 92
Mean 146.6
Std Dev 0

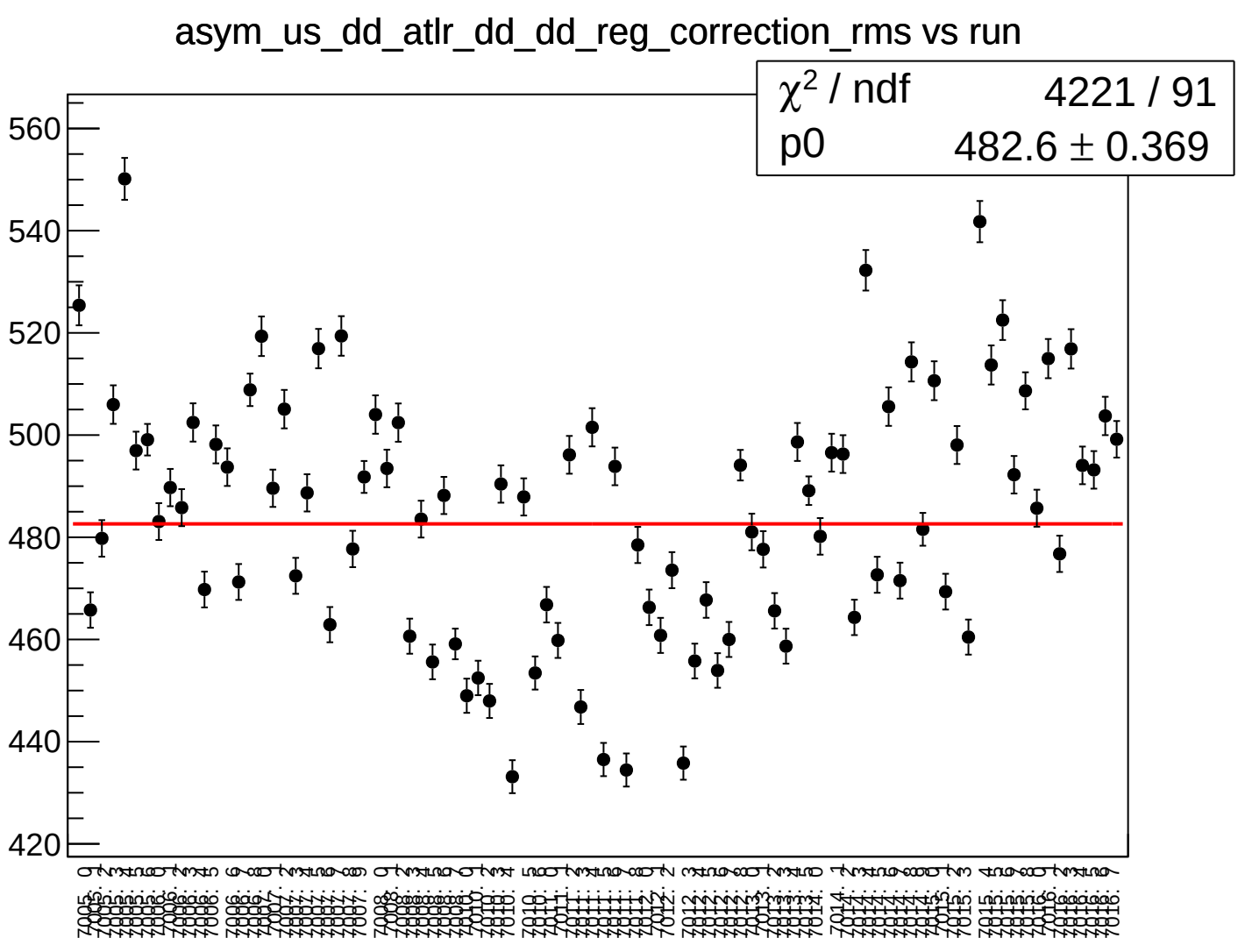

pull1D
Entries 92
Mean −0.05105
Std Dev 1.023

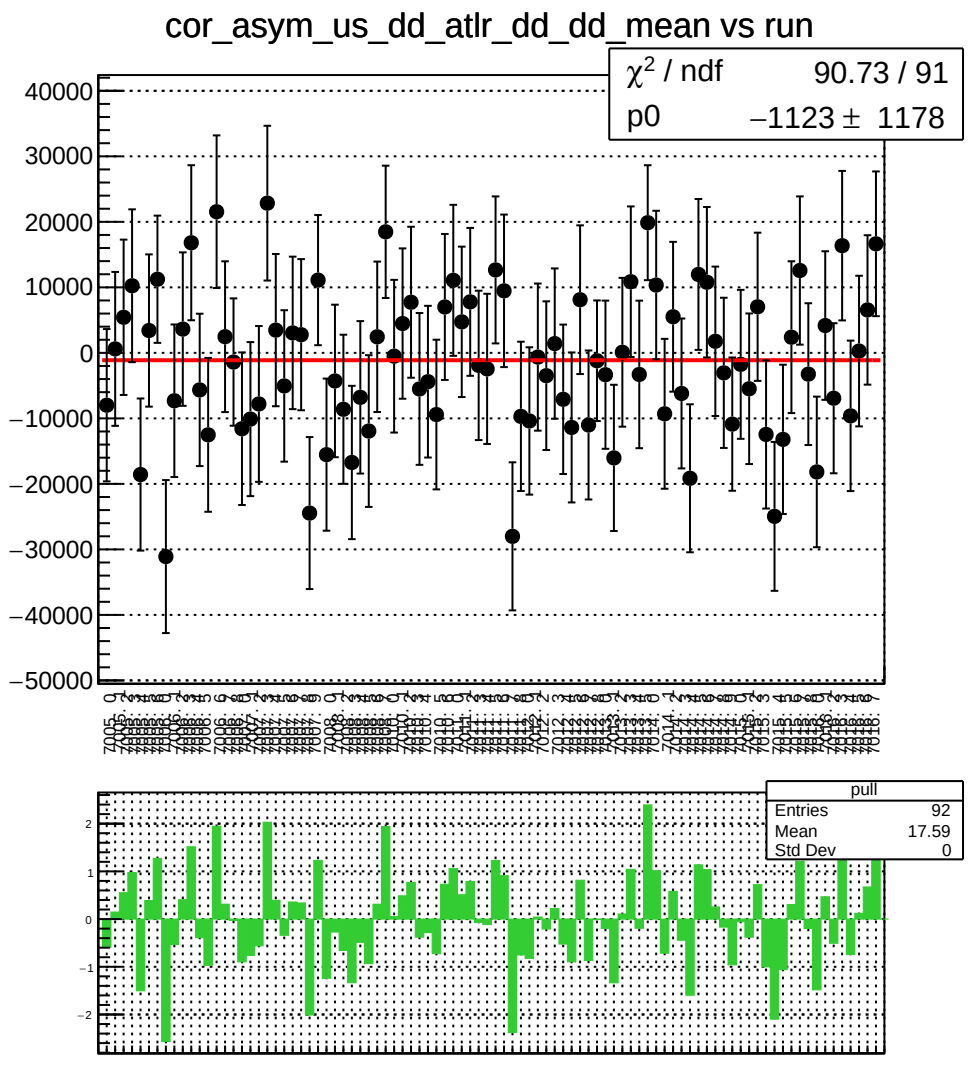

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.805e+05 / 91
p0 1.161e−11 ± 1.09e−14
0.1
0.08
0.06
0.04
0.02

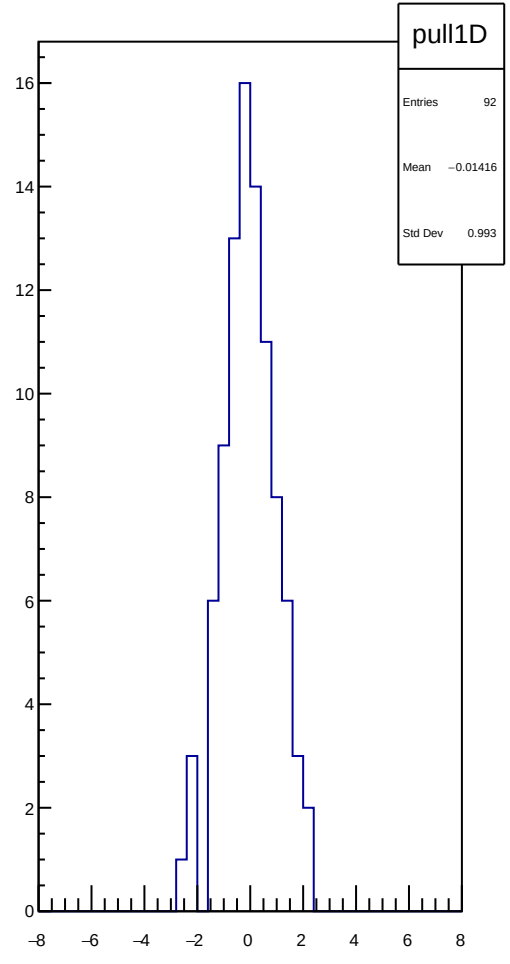

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.72 / 91
p0 −1123 ± 1178
pull
Entries 92
Mean 17.59
Std Dev 0
pull1D
Entries 92
Mean −0.01417
Std Dev 0.9929

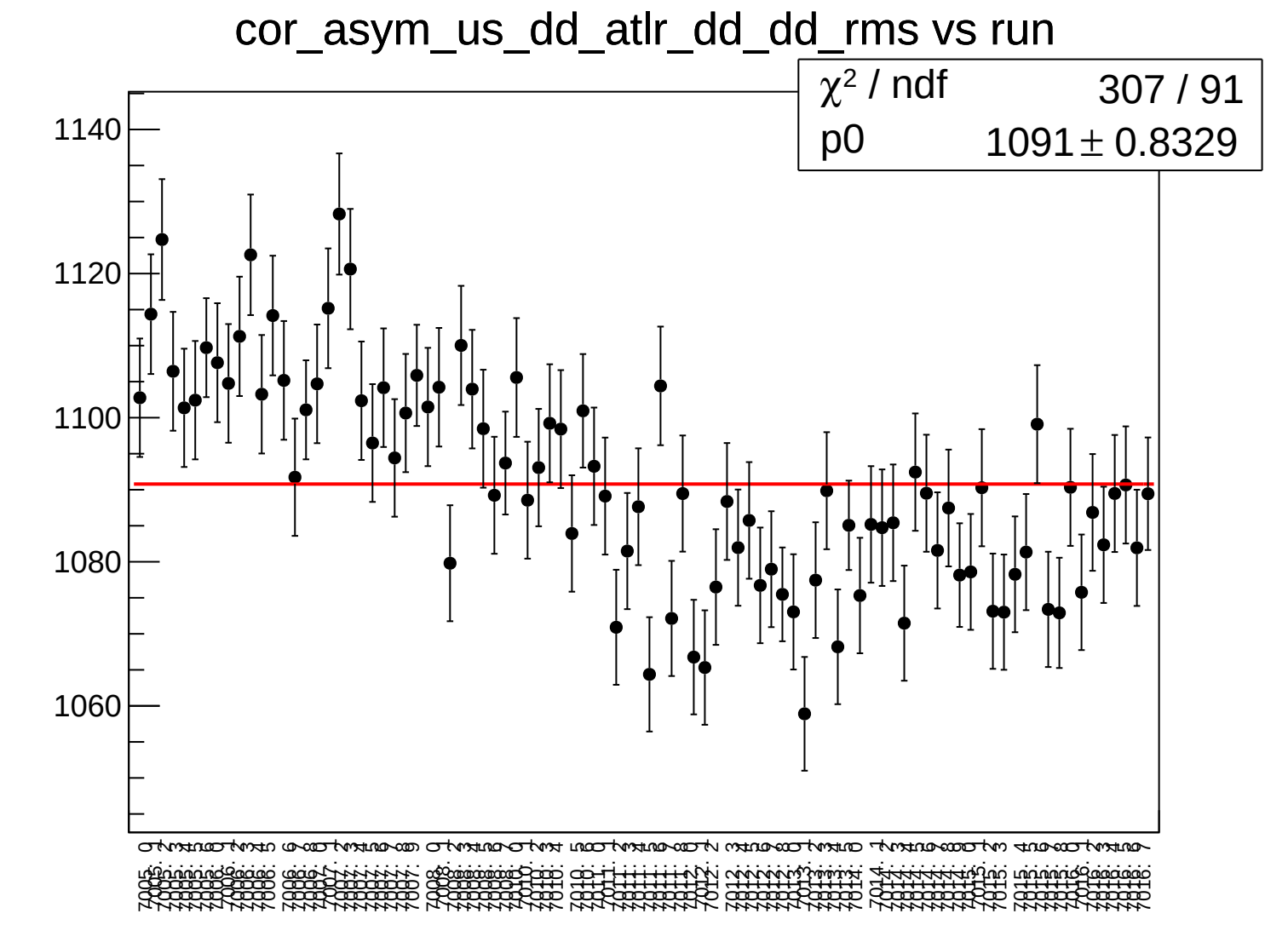

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 307 / 91
p0 1091 ± 0.8329
1140
1120
1100
1080
1060

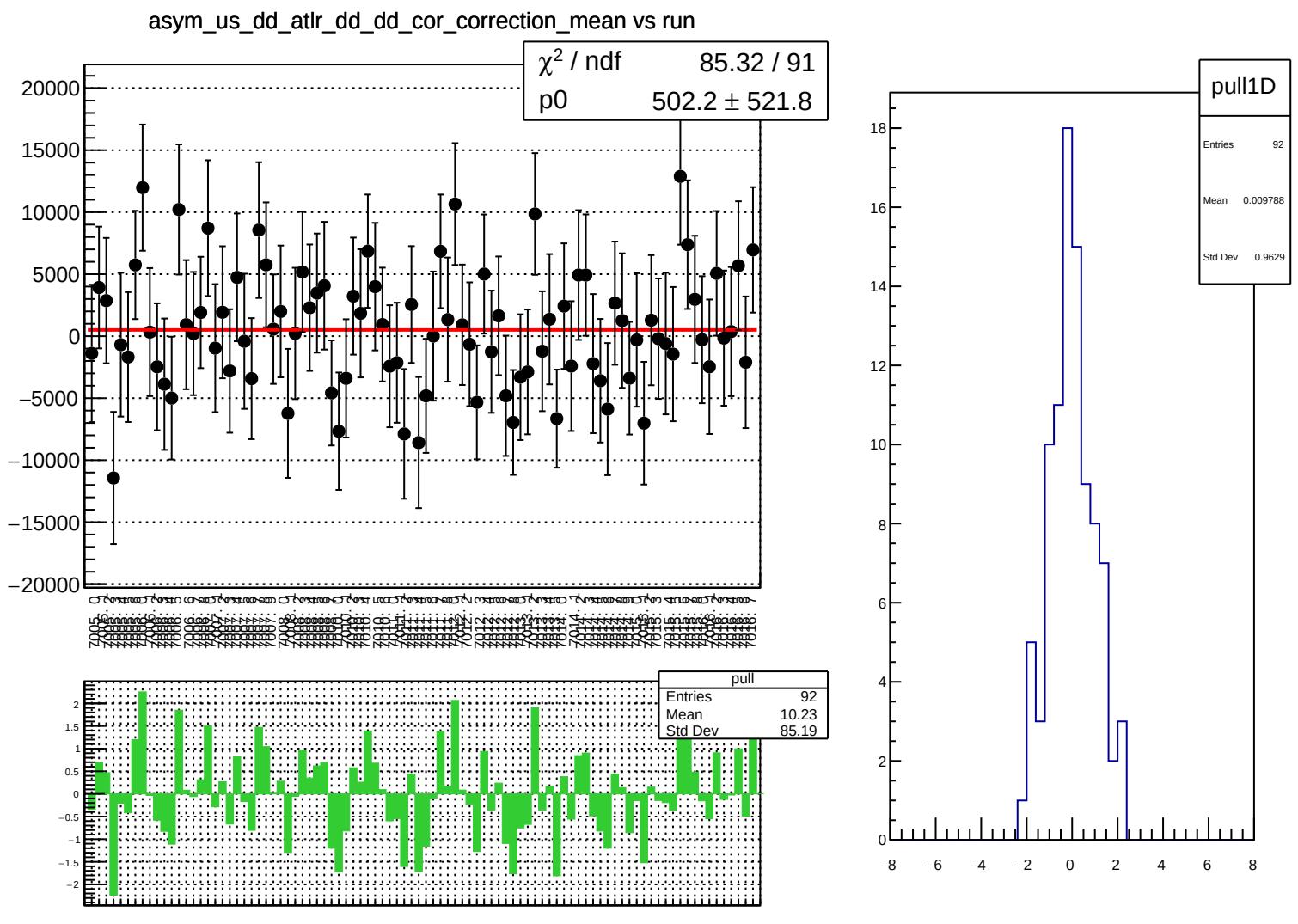

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 85.32 / 91
p0 502.2 ± 521.8
pull
Entries 92
Mean 10.35
Std Dev 85.2
pull1D
Entries 92
Mean 0.009807
Std Dev 0.9629

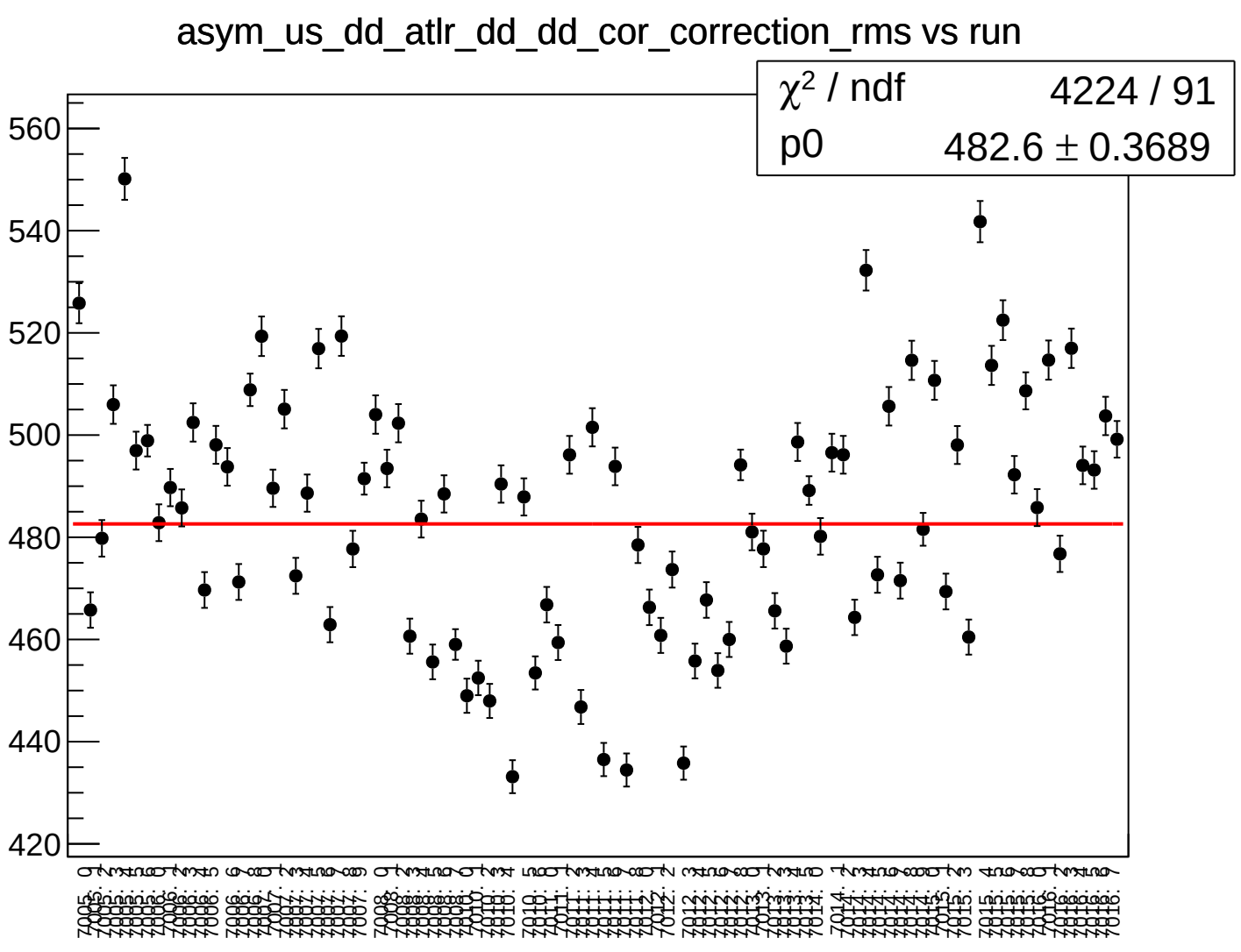

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 4221 / 91
p0 482.6 ± 0.369
560
540
520
500
480
460
440
420

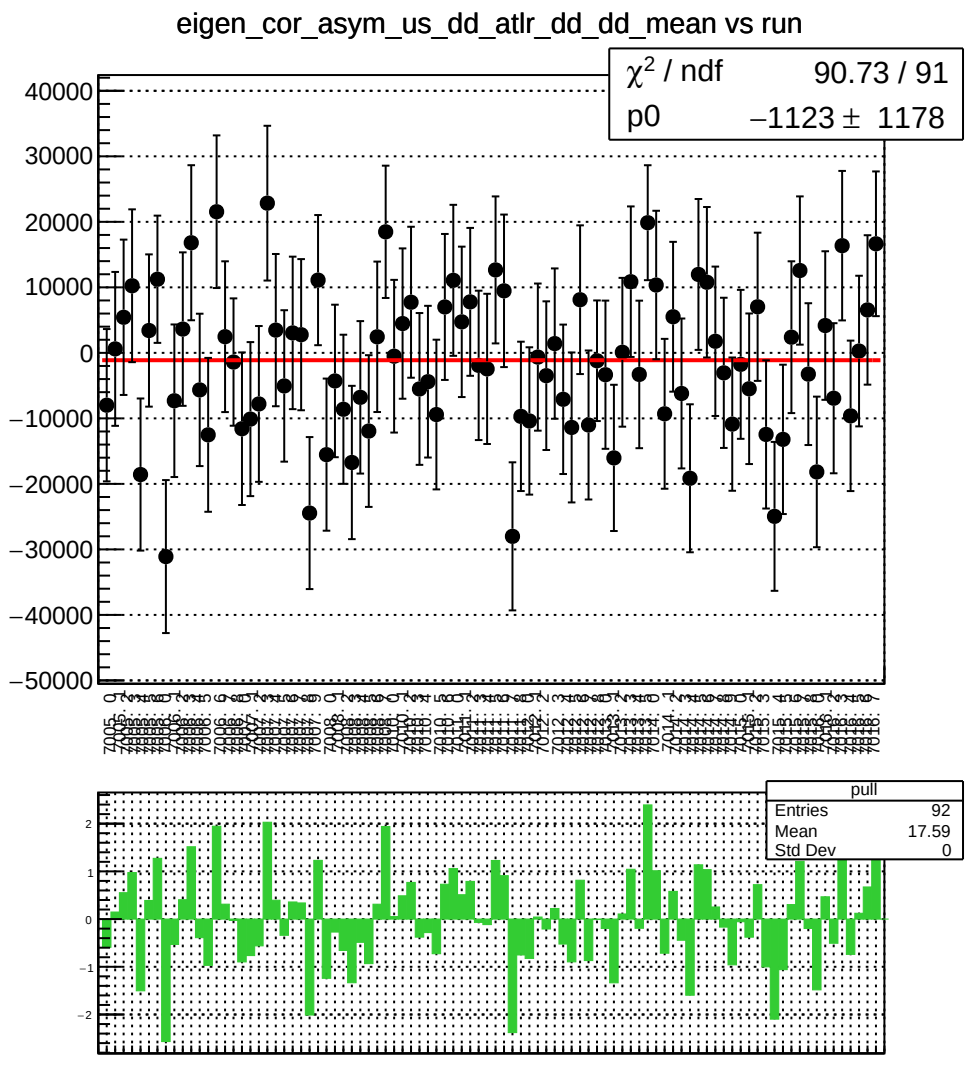

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.73 / 91
p0 −1123 ± 1178
pull
Entries 92
Mean 17.59
Std Dev 0

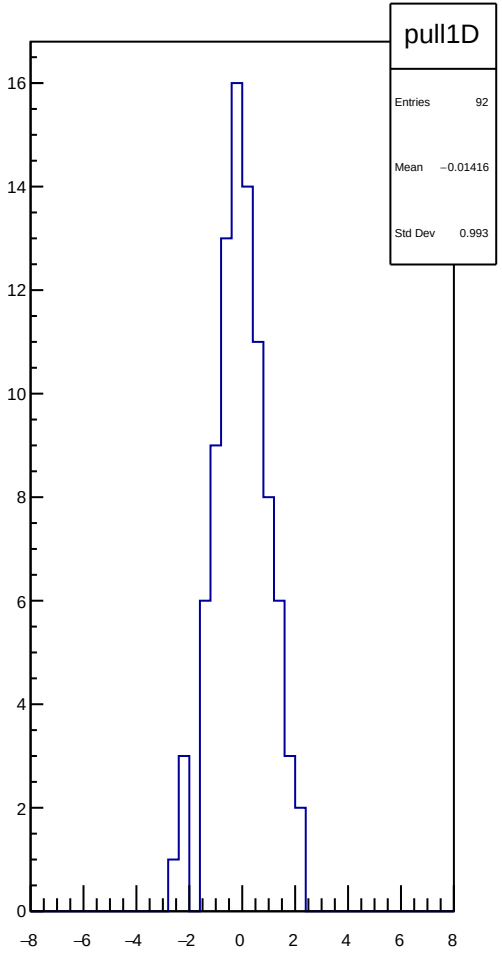

pull1D
Entries 92
Mean −0.01416
Std Dev 0.993

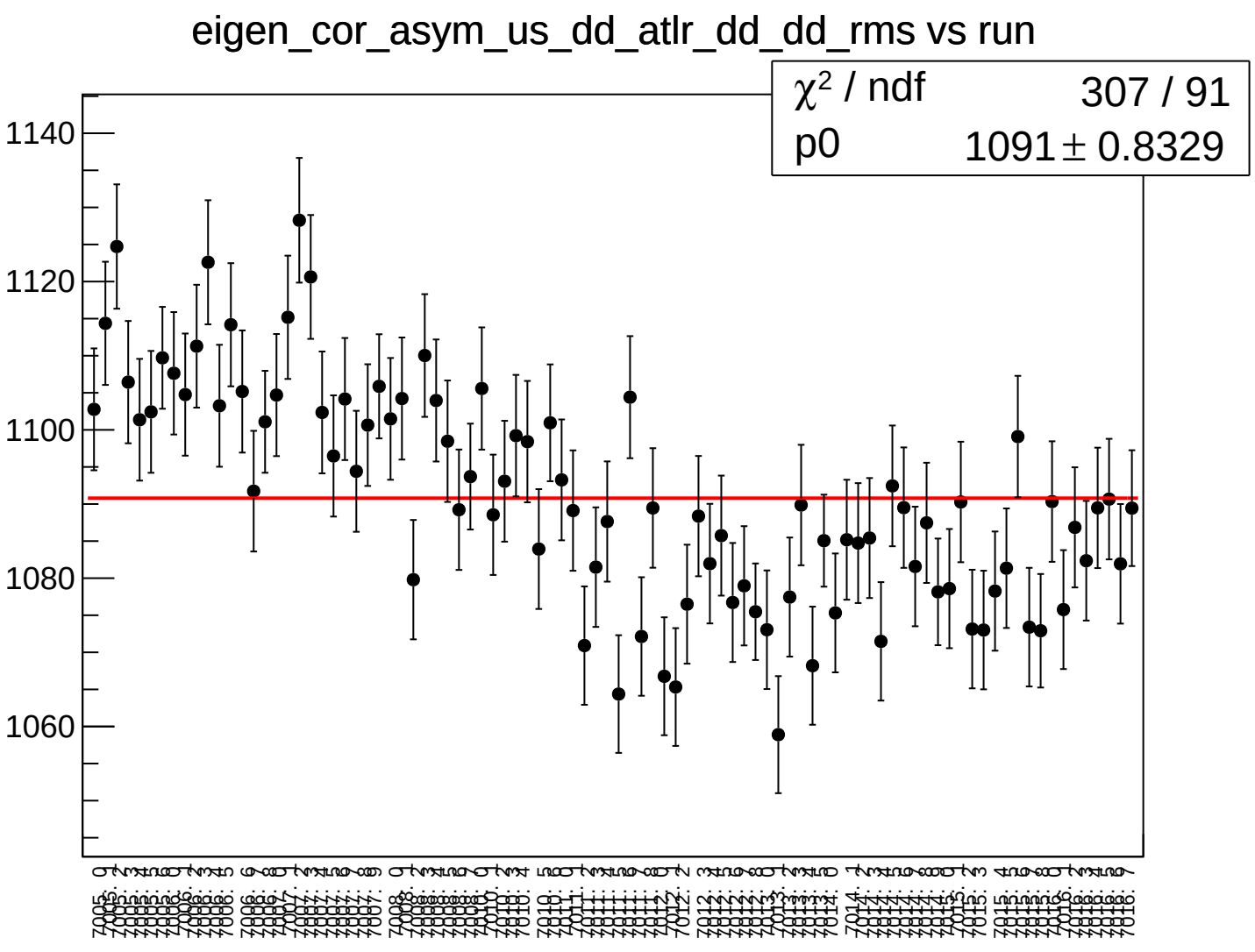

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 307 / 91
p0 1091 ± 0.8329
1140
1120
1100
1080
1060

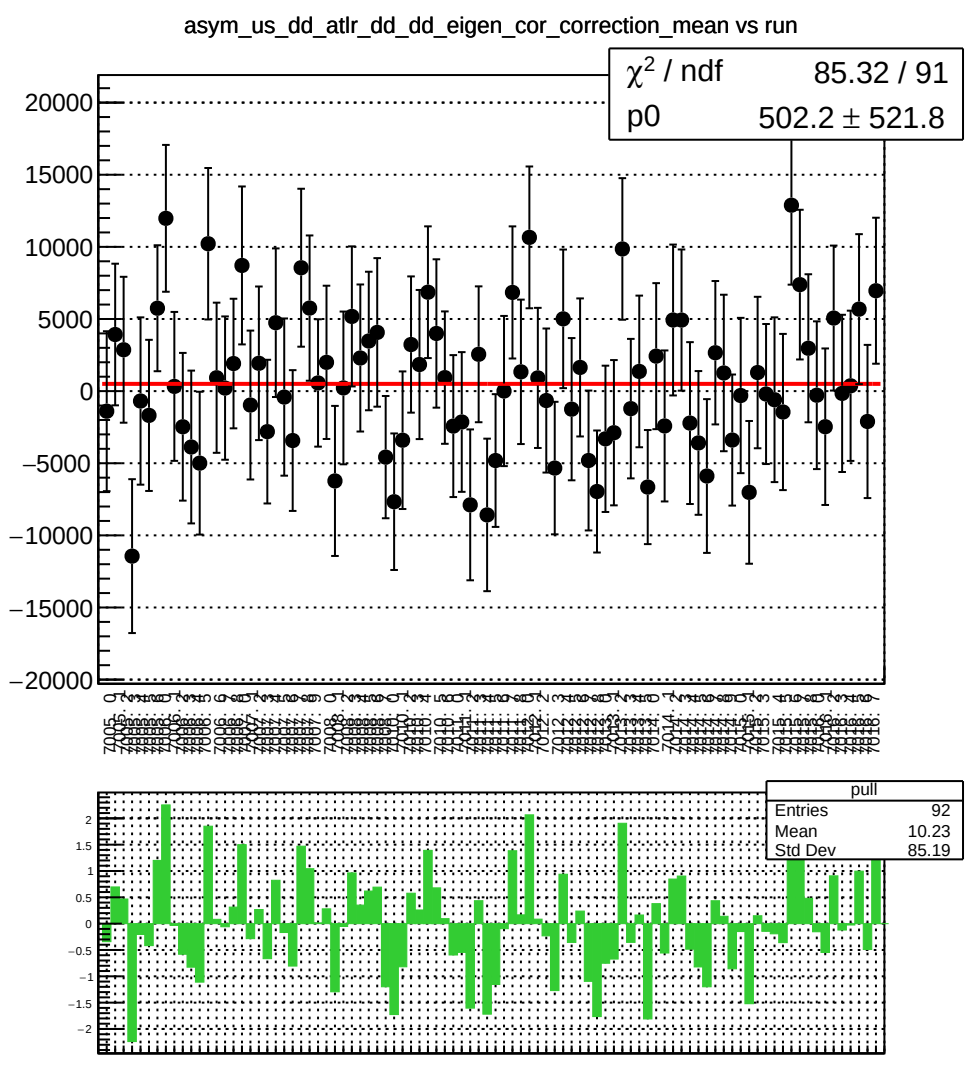

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 85.32 / 91
p0 502.2 ± 521.8
pull
Entries 92
Mean 10.23
Std Dev 85.19
pull1D
Entries 92
Mean 0.009788
Std Dev 0.9629

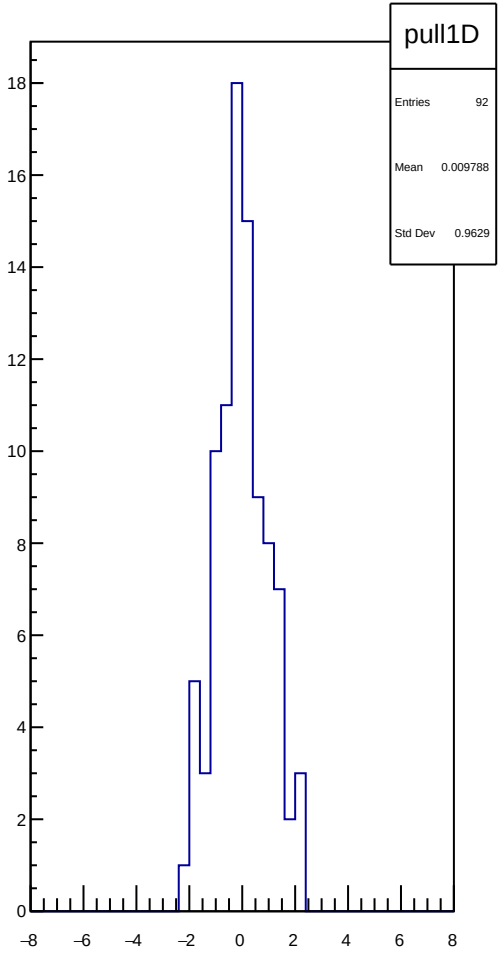

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 4224 / 91
p0 482.6 ± 0.3689
560
540
520
500
480
460
440
420

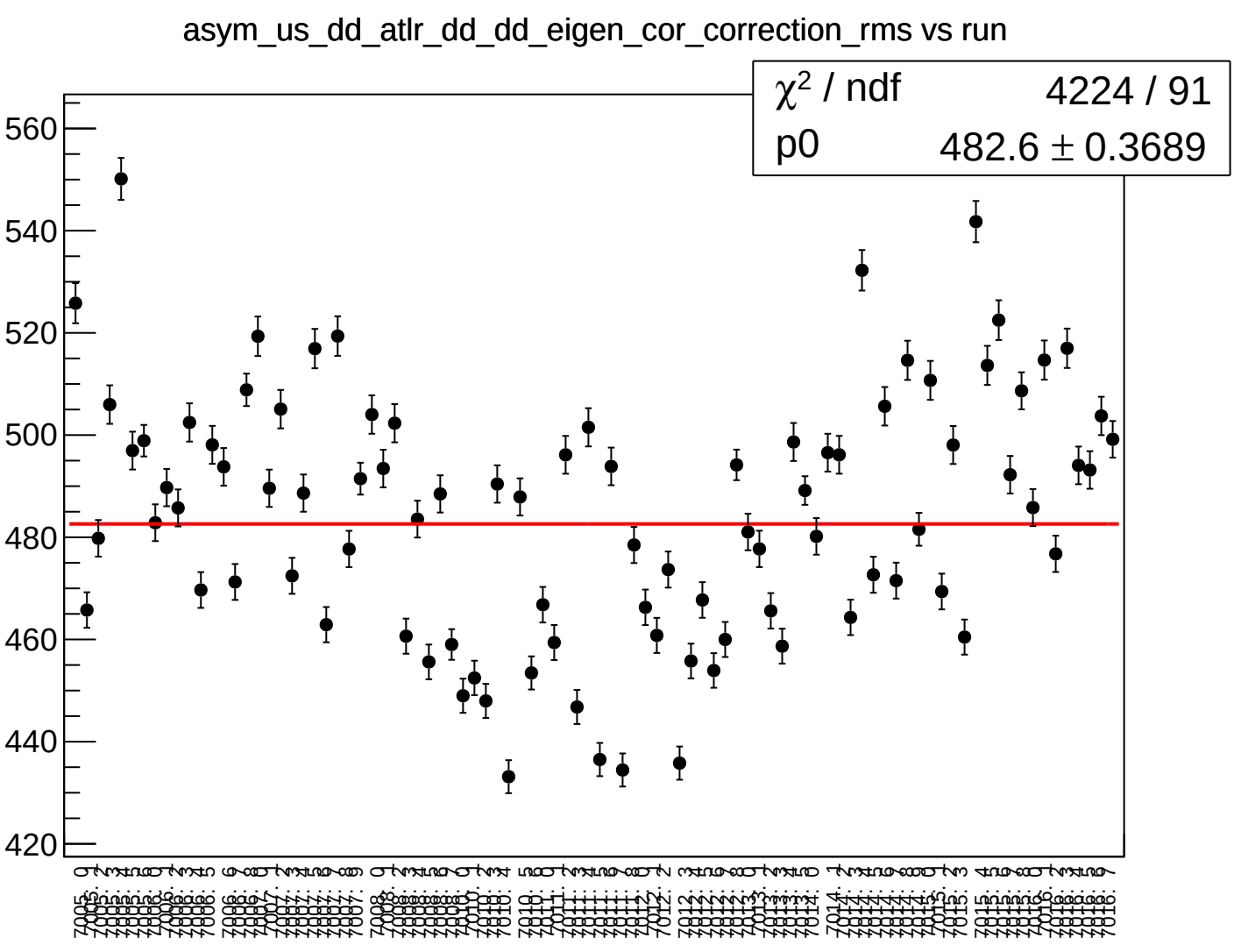

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.73 / 91
p0 −1123 ± 1178
pull
Entries 92
Mean 17.59
Std Dev 0

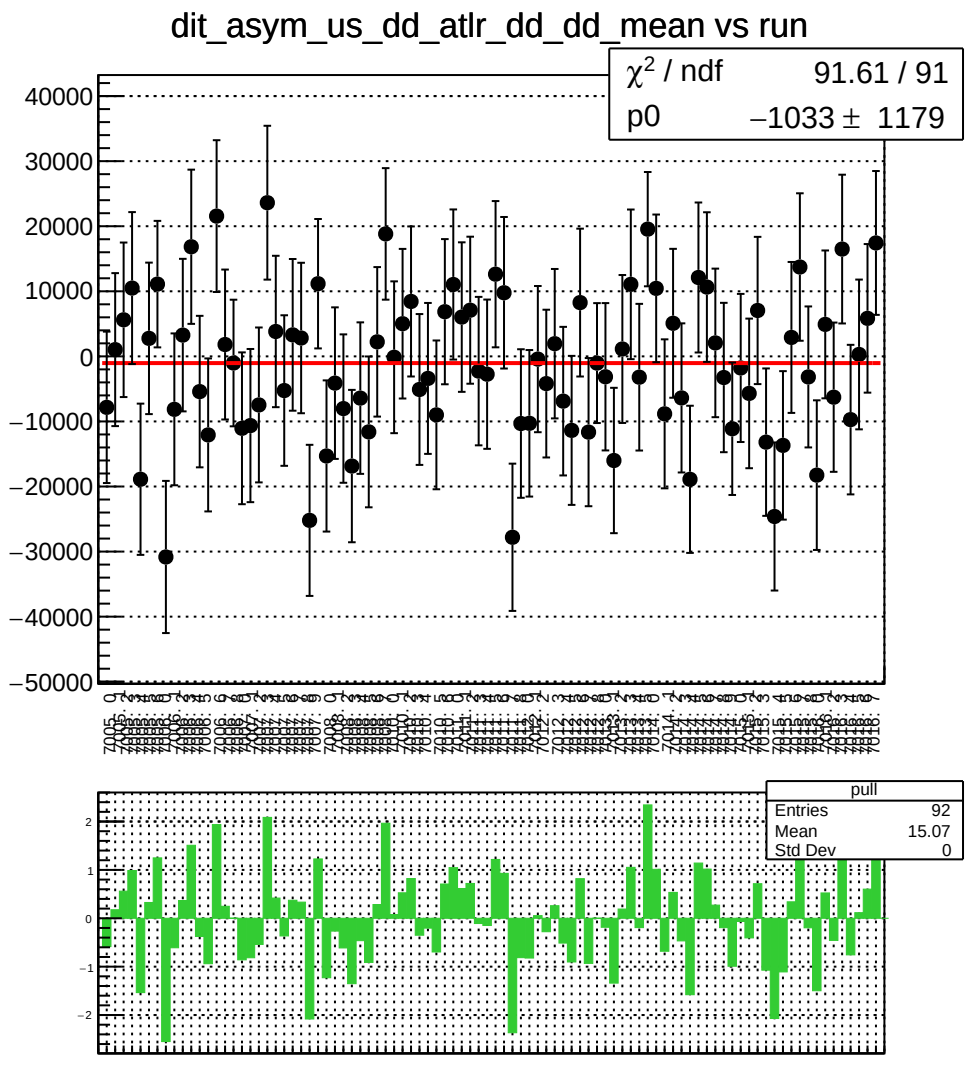

pull1D
Entries 92
Mean −0.01416
Std Dev 0.993

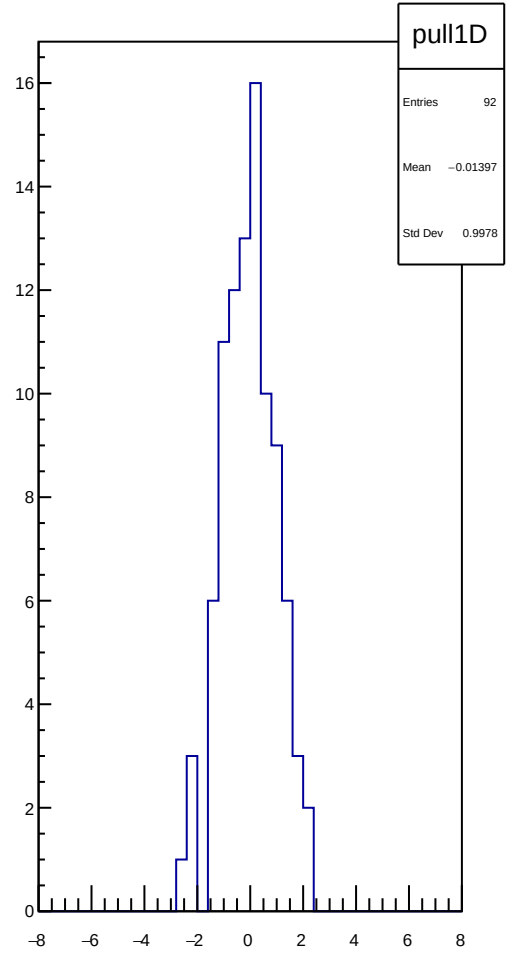

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 307 / 91
p0 1091 ± 0.8329
1140
1120
1100
1080
1060

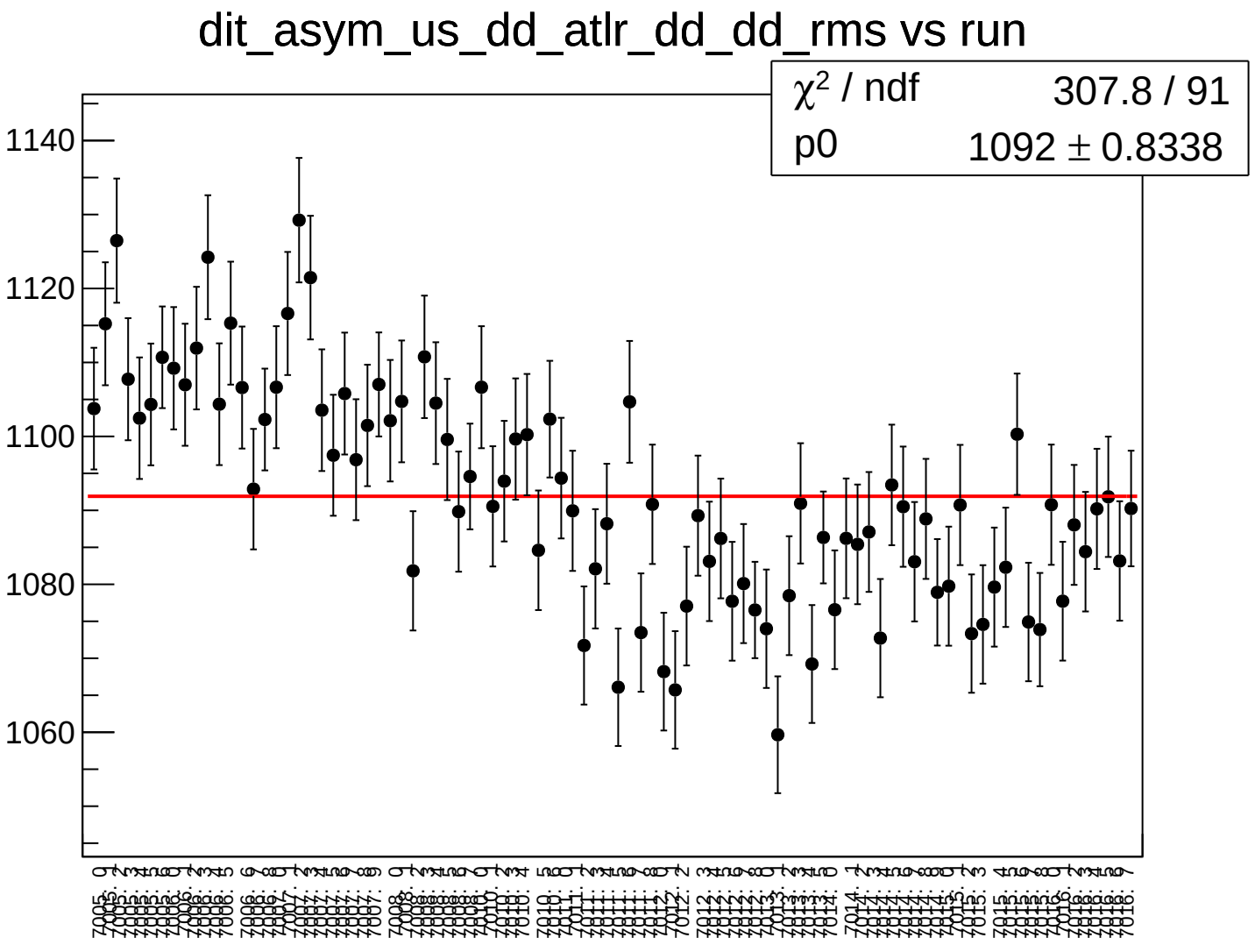

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.32 / 91
p0 502.2 ± 521.8
pull
Entries 92
Mean 10.23
Std Dev 85.19

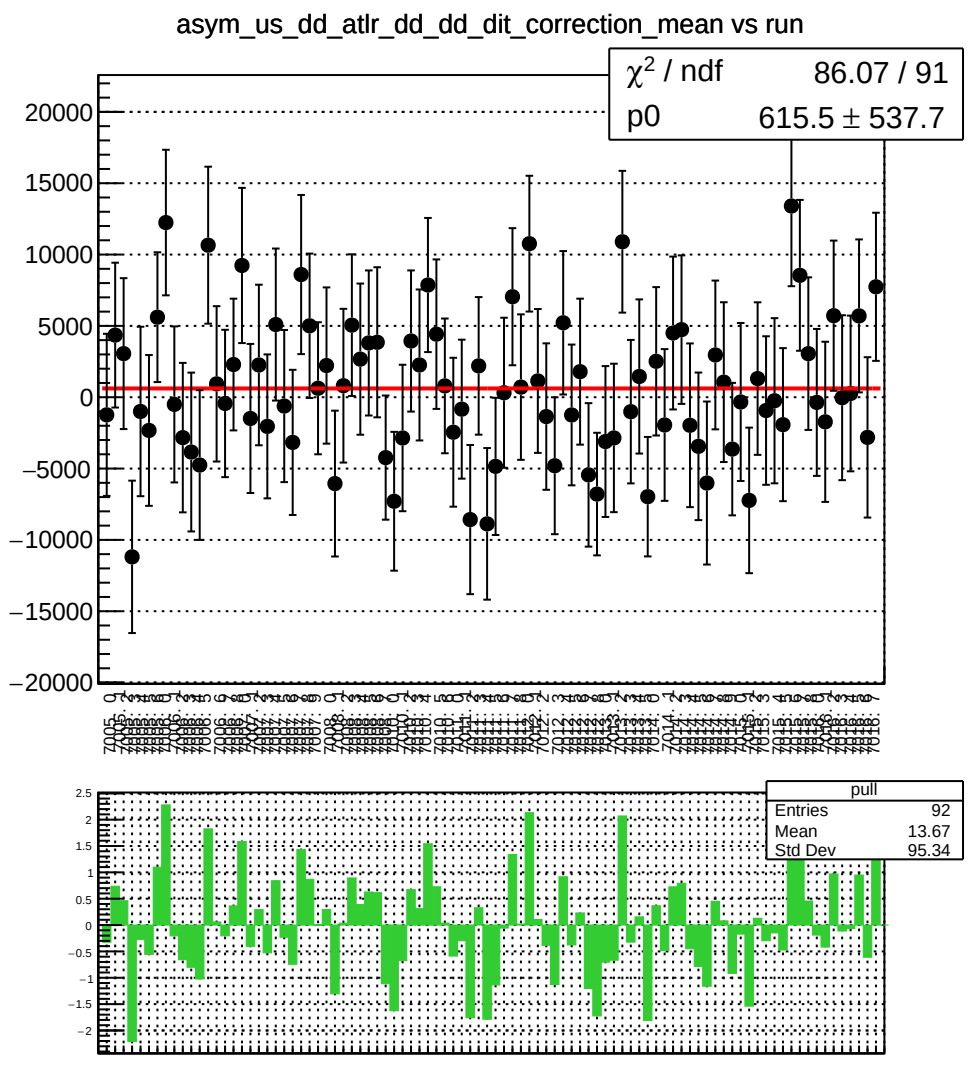

pull1D
Entries 92
Mean 0.009788
Std Dev 0.9629

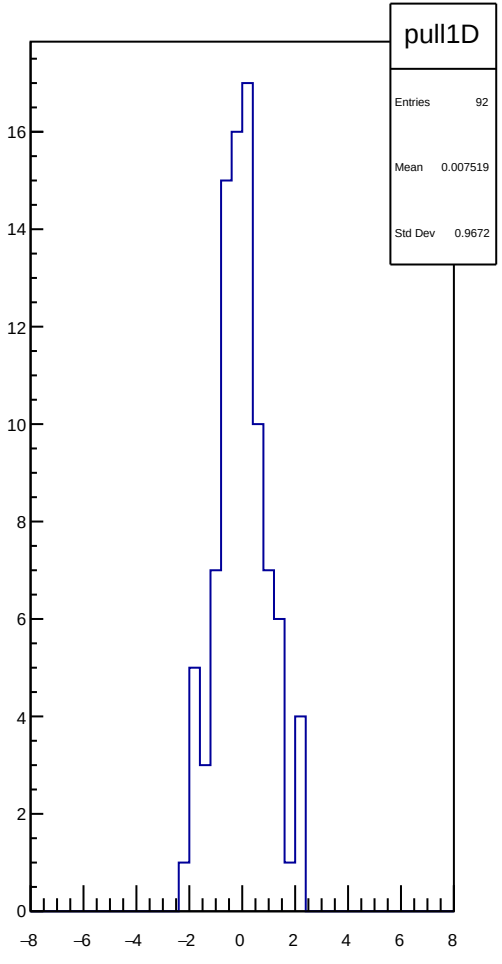

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4224 / 91
p0 482.6 ± 0.3689
560
540
520
500
480
460
440
420

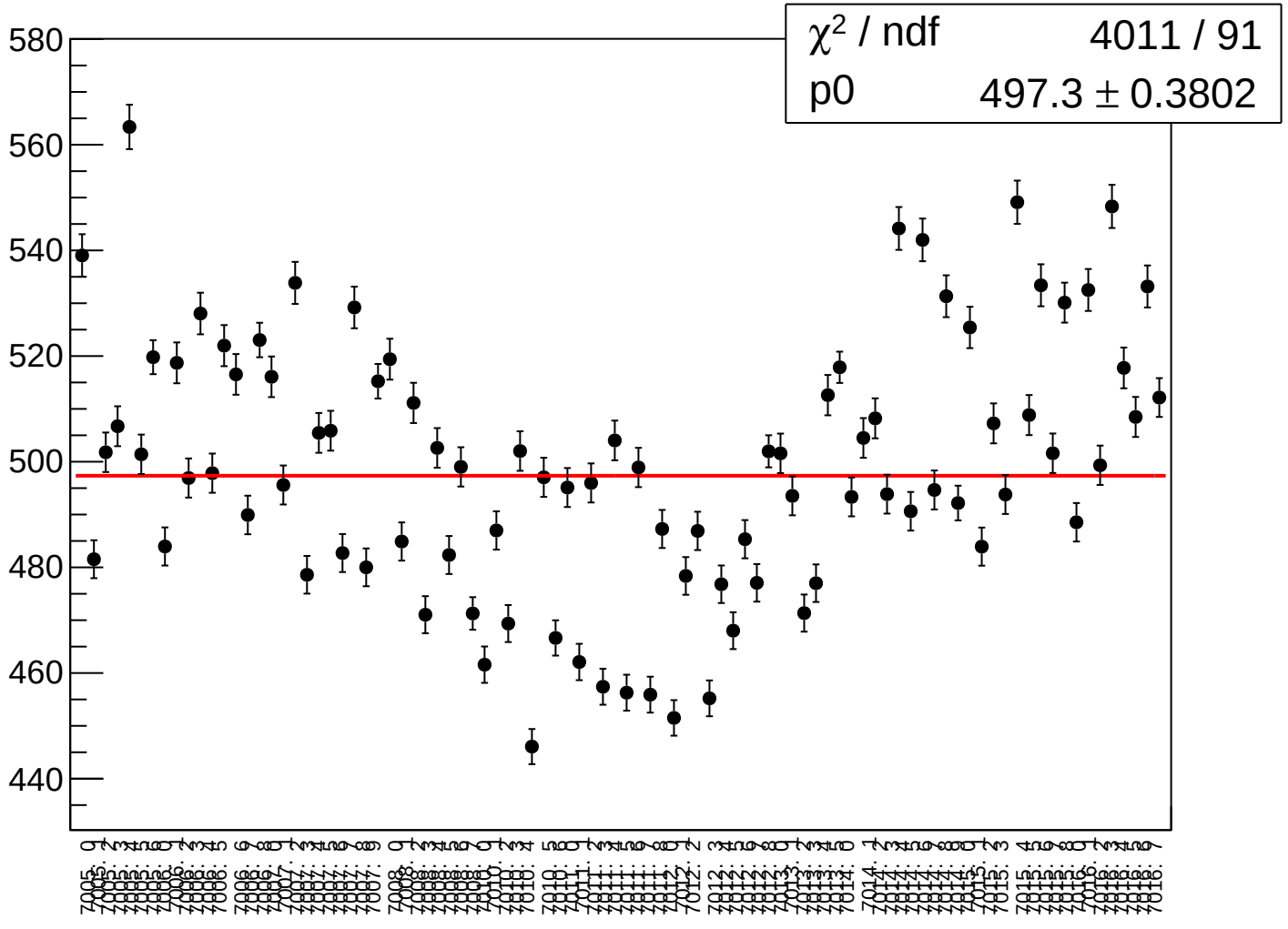

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 91.61 / 91
p0 −1033 ± 1179
pull
Entries 92
Mean 15.07
Std Dev 0

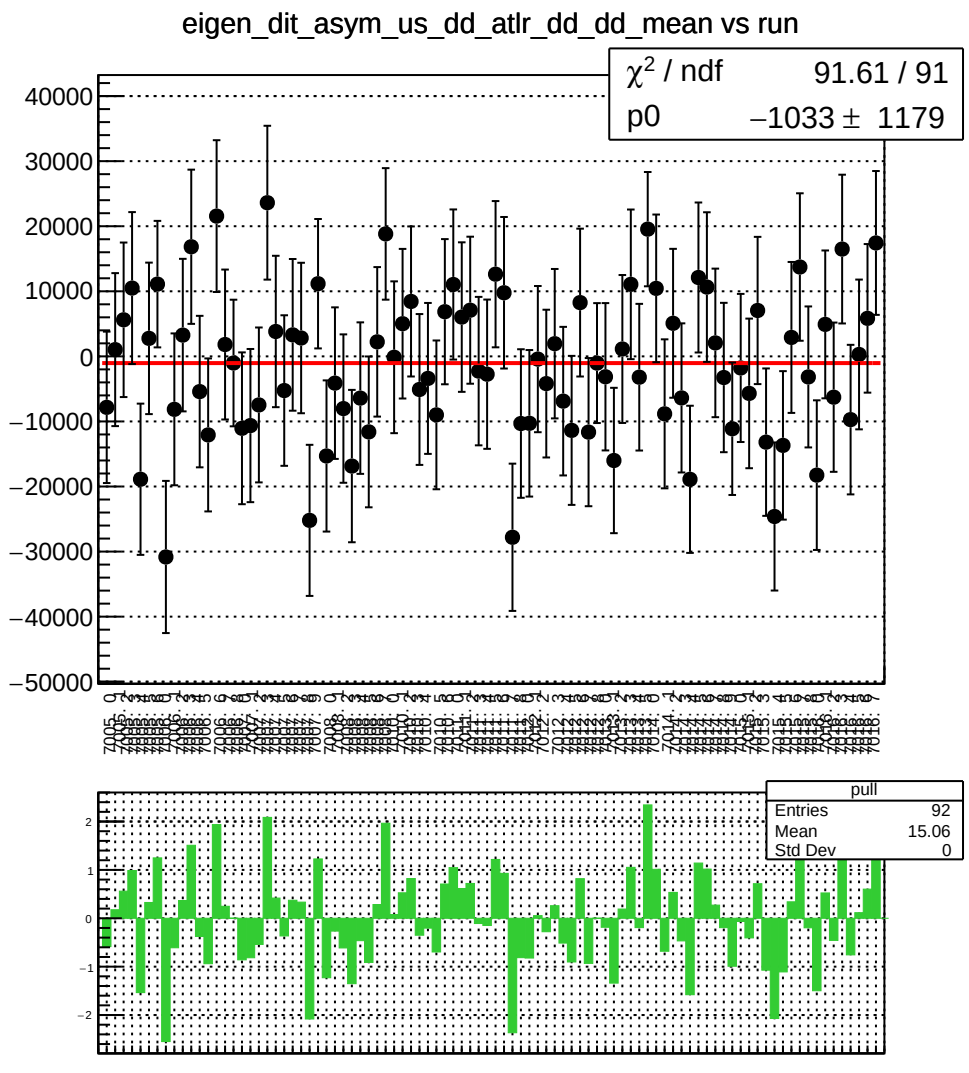

pull1D
Entries 92
Mean −0.01397
Std Dev 0.9978

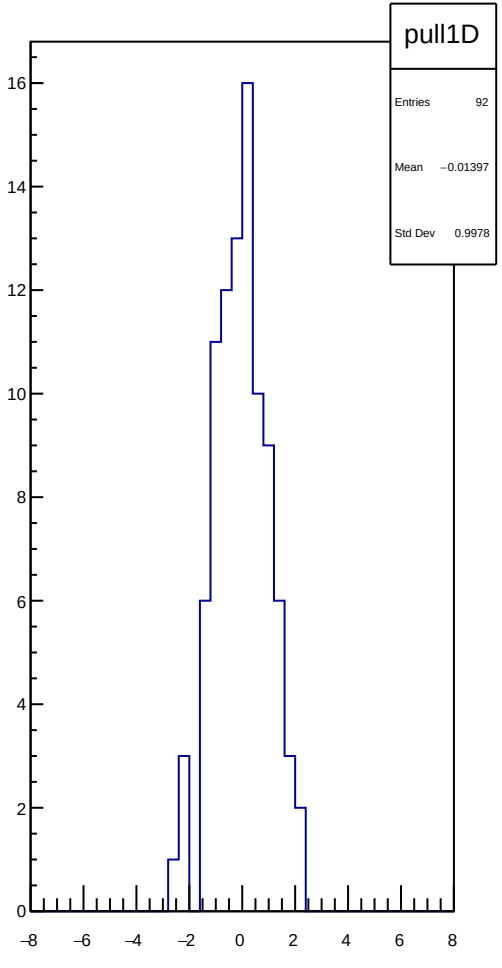

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 307.8 / 91
p0 1092 ± 0.8338
1140
1120
1100
1080
1060

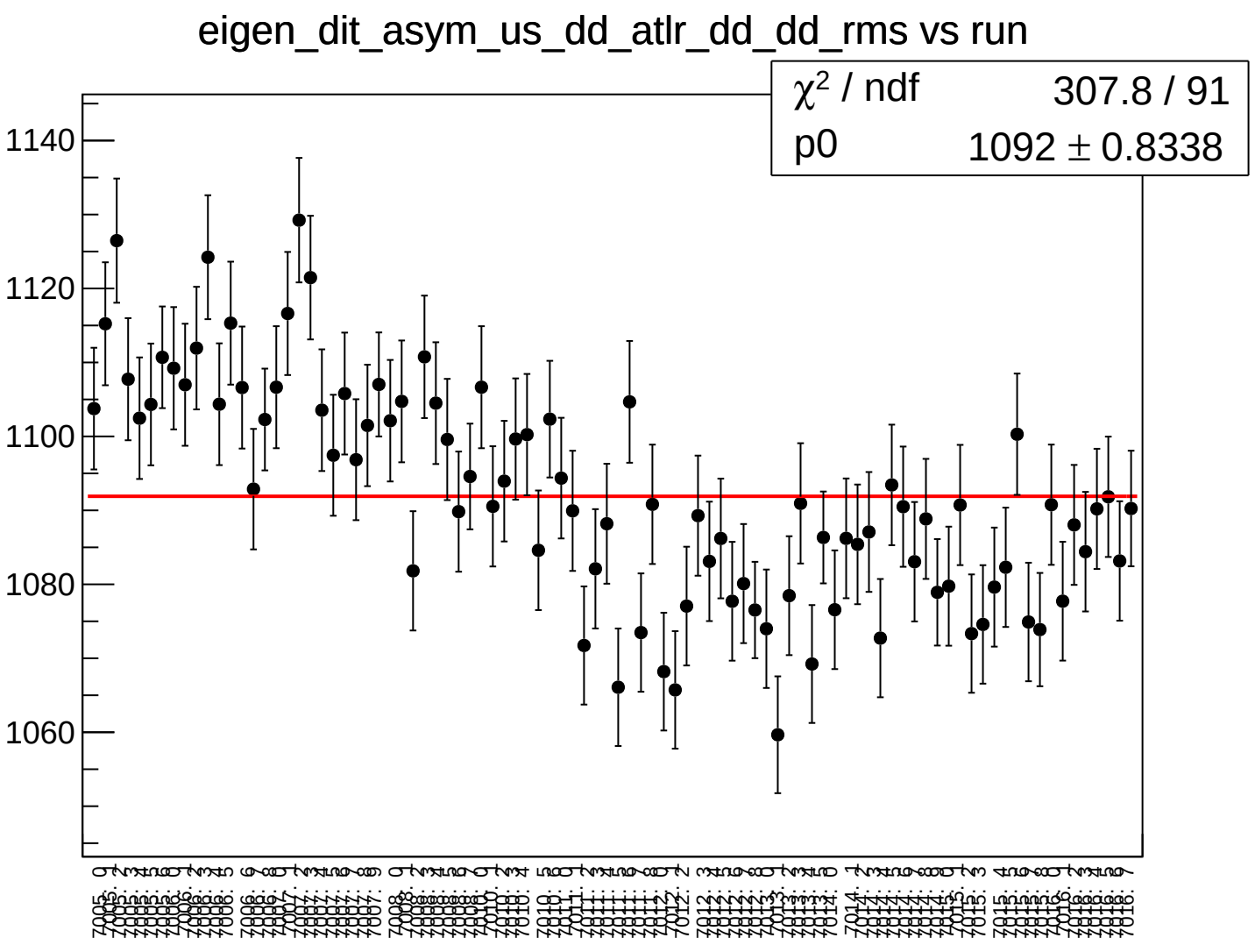

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 86.07 / 91
p0 615.5 ± 537.7
pull
Entries 92
Mean 13.67
Std Dev 95.34

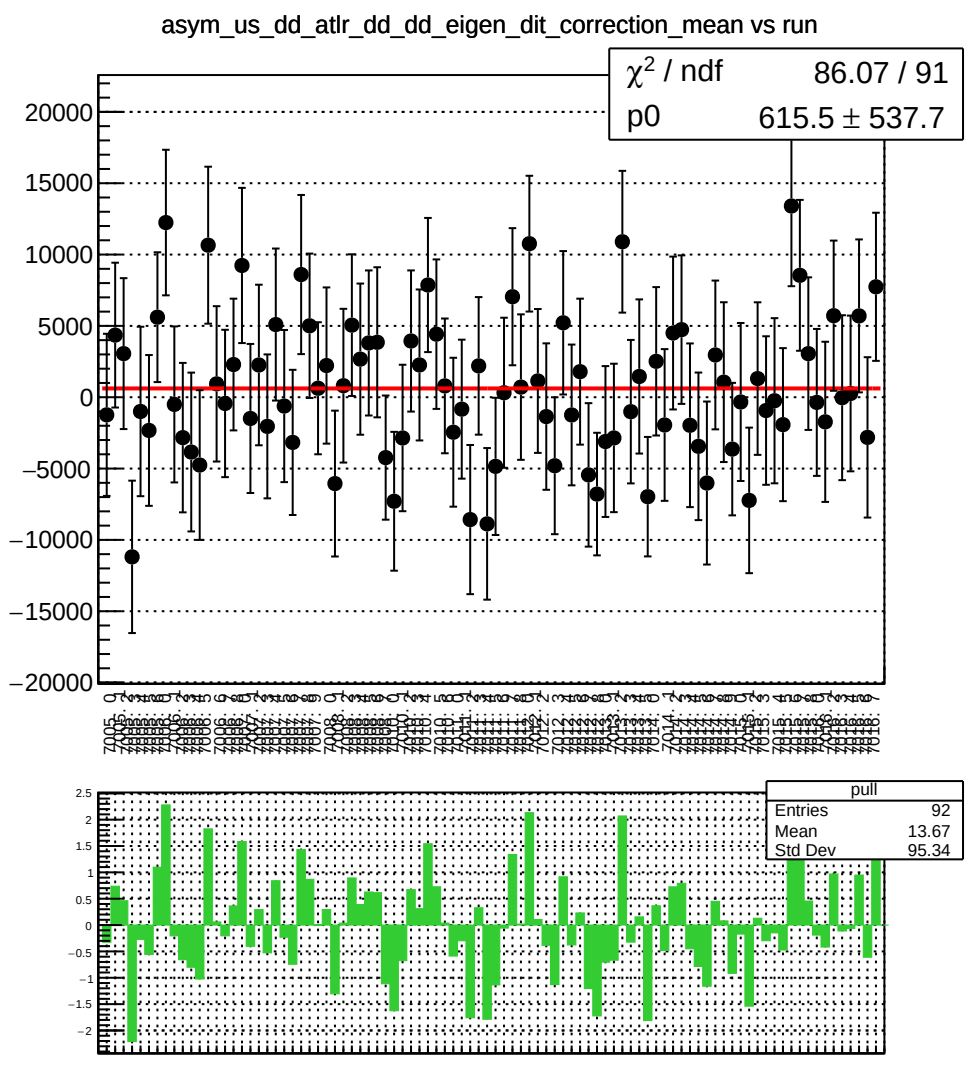

pull1D
Entries 92
Mean 0.007519
Std Dev 0.9672

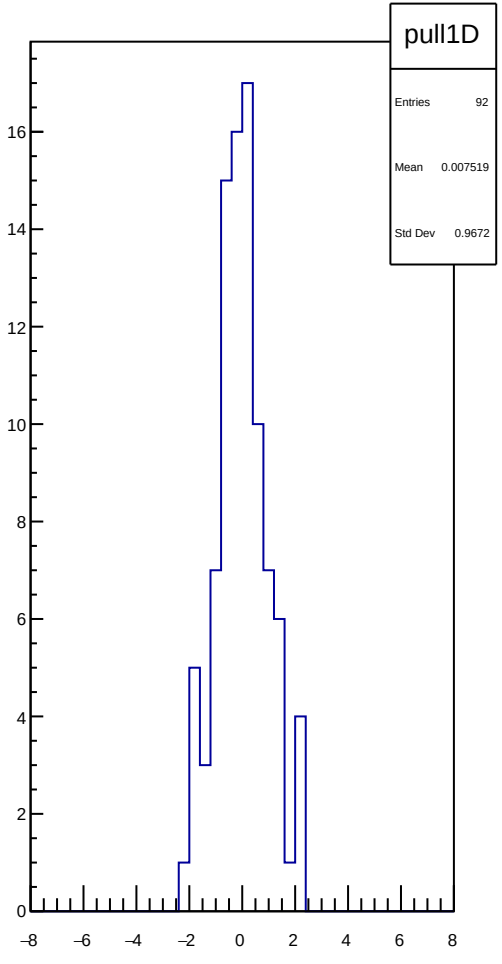

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 4011 / 91
p0 497.3 ± 0.3802
580
560
540
520
500
480
460
440

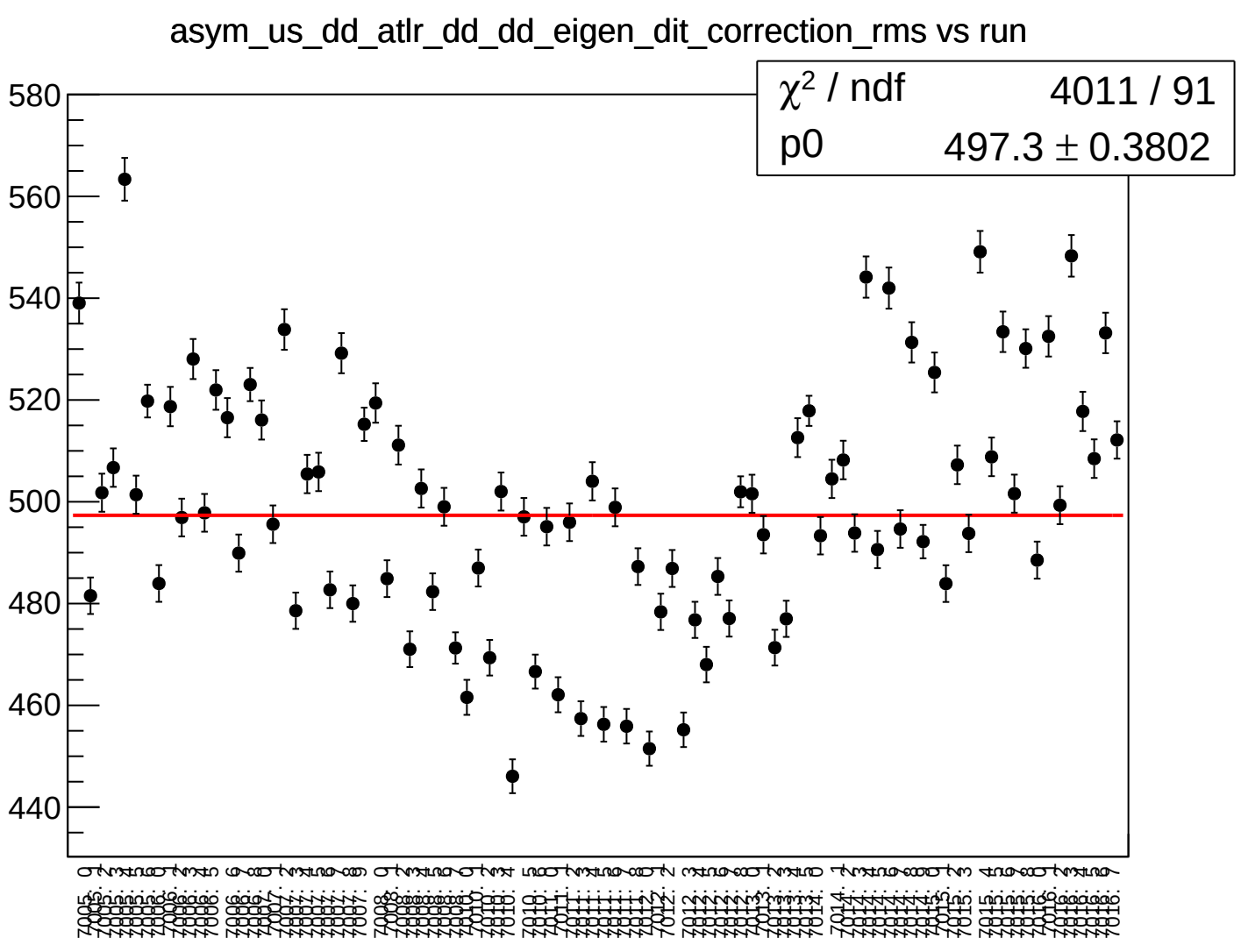

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 91.61 / 91
p0 −1033 ± 1179
pull
Entries 92
Mean 15.06
Std Dev 0

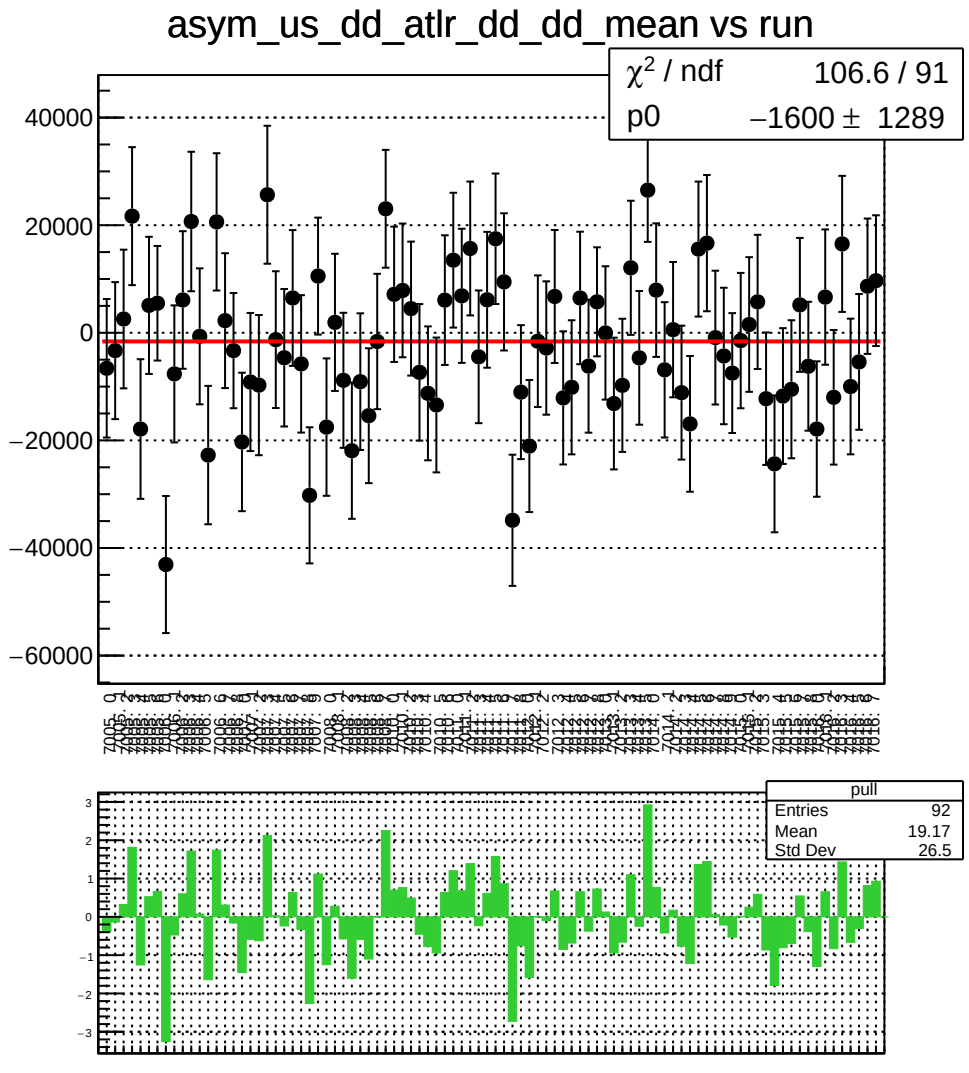

pull1D
Entries 92
Mean −0.01397
Std Dev 0.9978

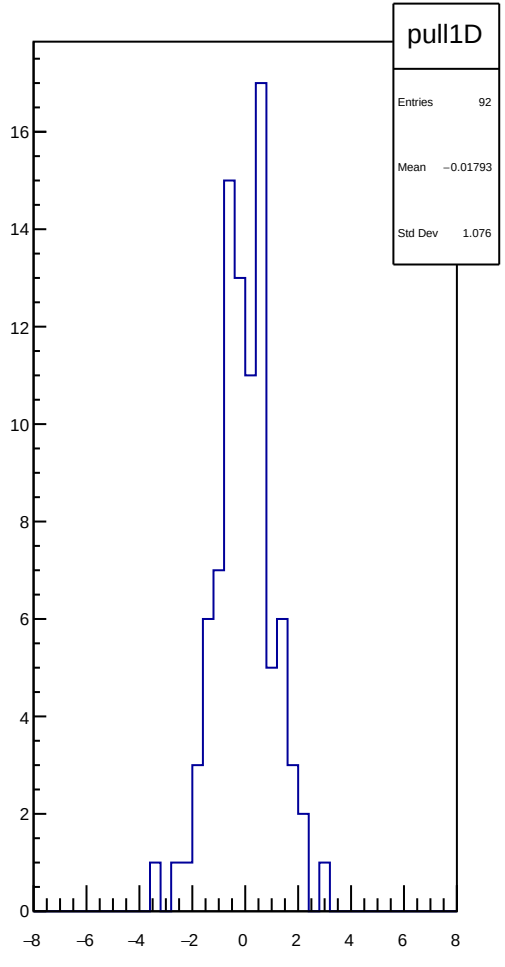

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 307.8 / 91
p0 1092 ± 0.8338
1140
1120
1100
1080
1060

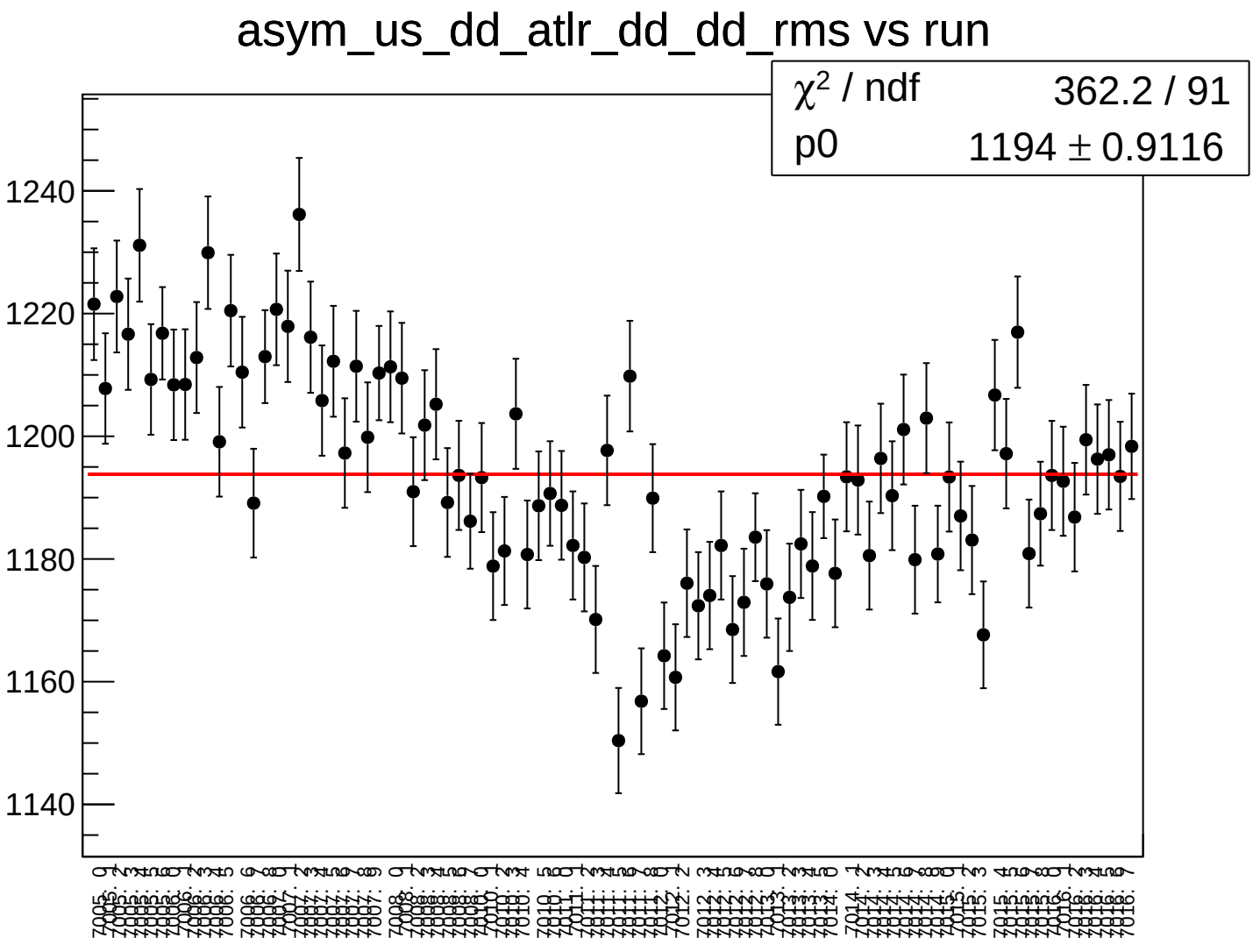

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.07 / 91
p0 615.5 ± 537.7
pull
Entries 92
Mean 13.67
Std Dev 95.34

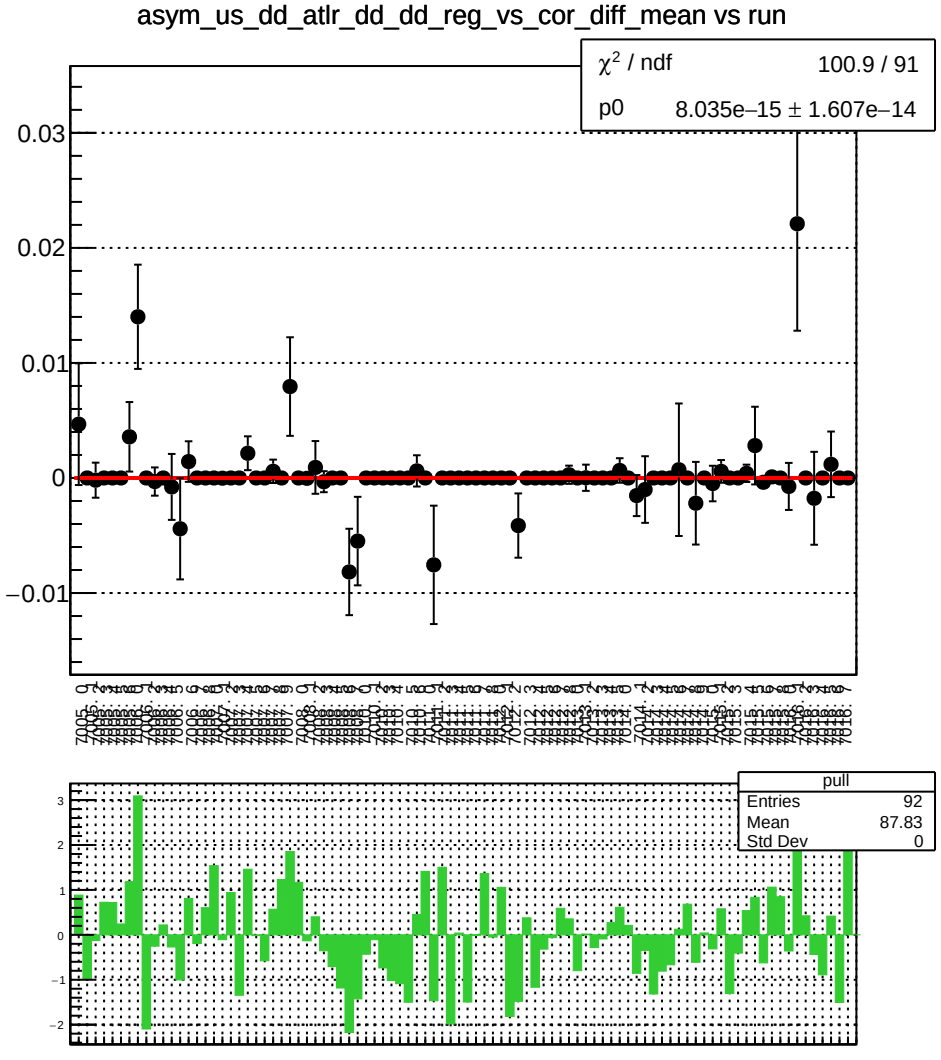

pull1D
Entries 92
Mean 0.007519
Std Dev 0.9672

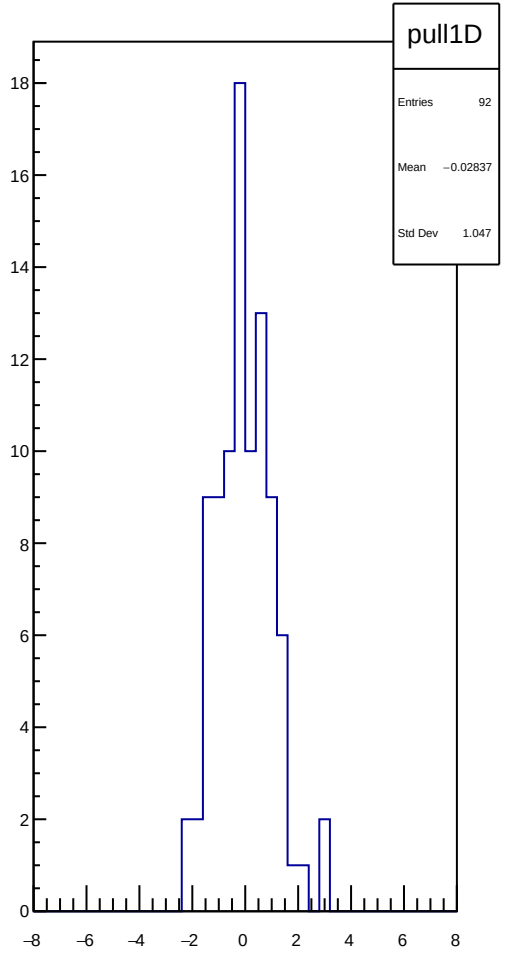

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4011 / 91
p0 497.3 ± 0.3802
580
560
540
520
500
480
460
440

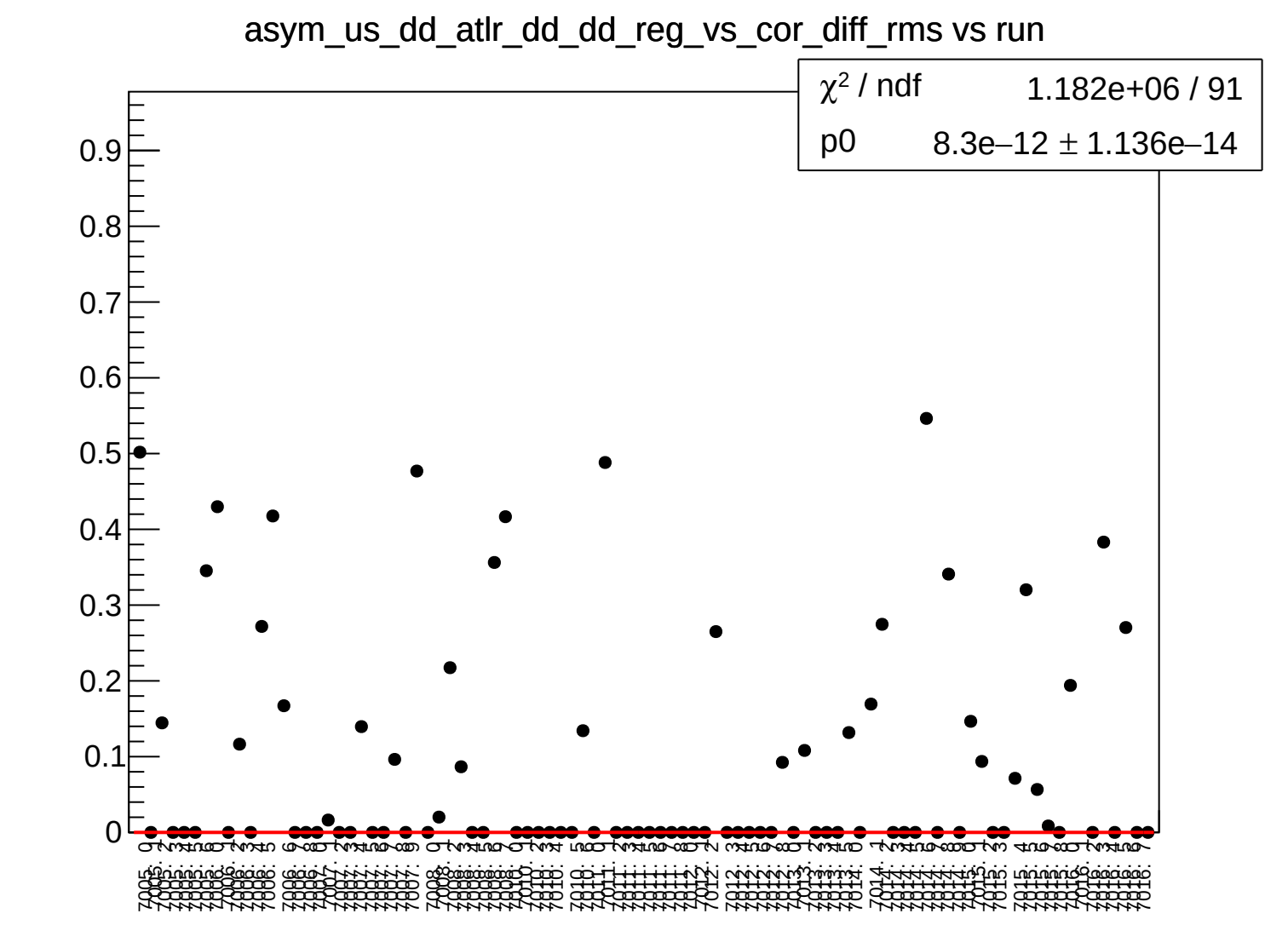

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 106.6 / 91
p0 −1600 ± 1289
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 19.17
Std Dev 26.5
3
2
1
0
−1
−2
−3

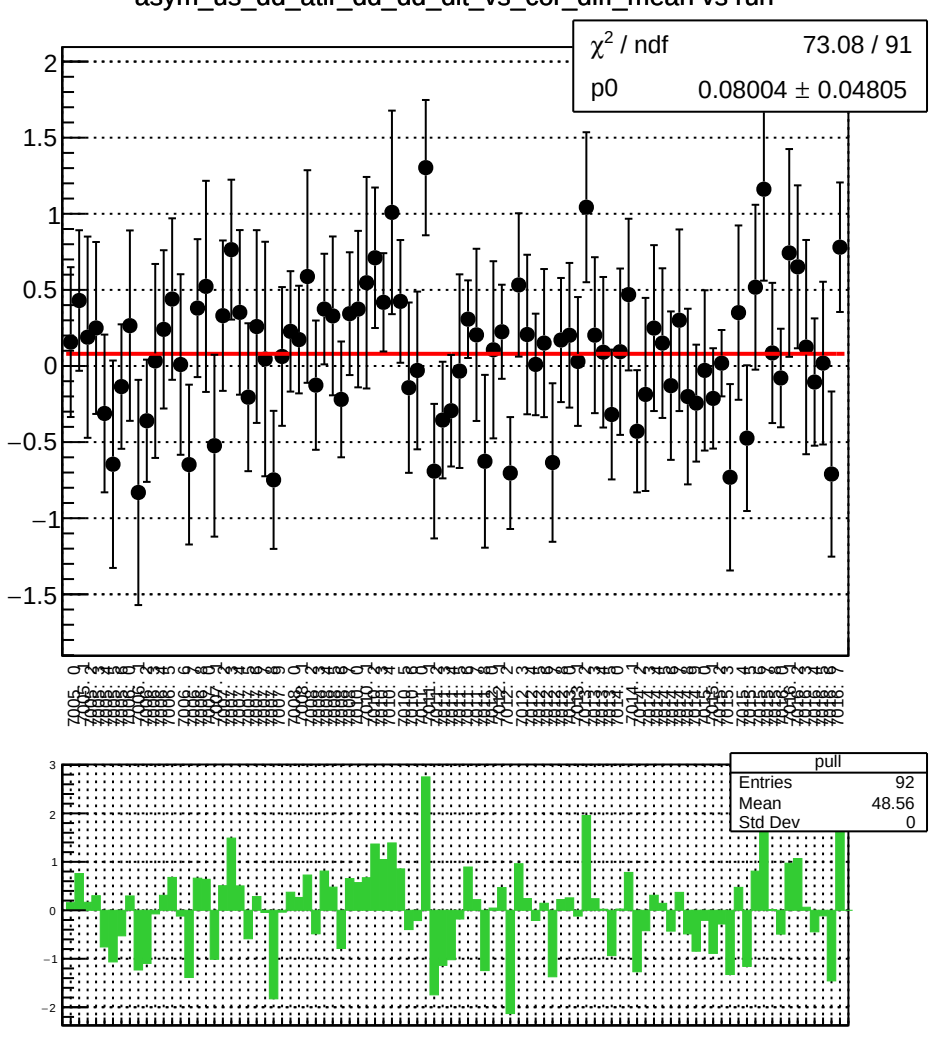

pull1D
Entries 92
Mean −0.01793
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

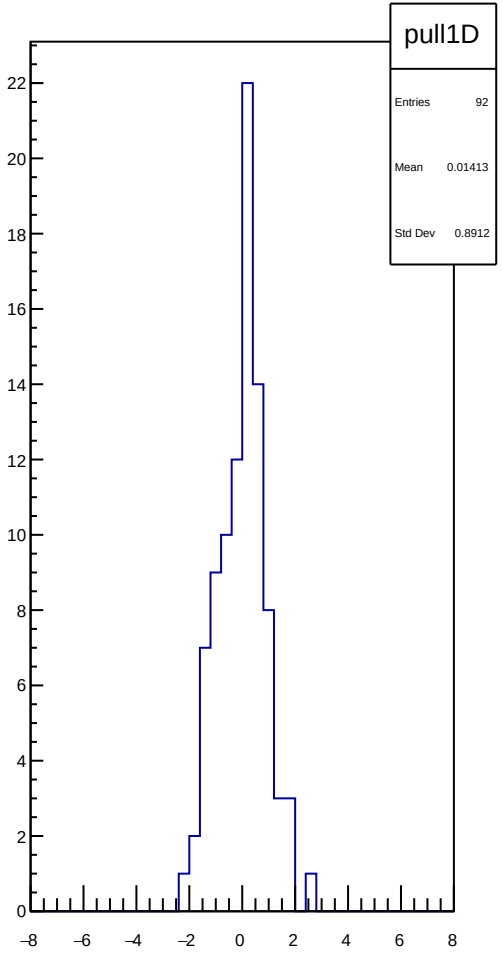

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 362.2 / 91
p0 1194 ± 0.9116
1240
1220
1200
1180
1160
1140

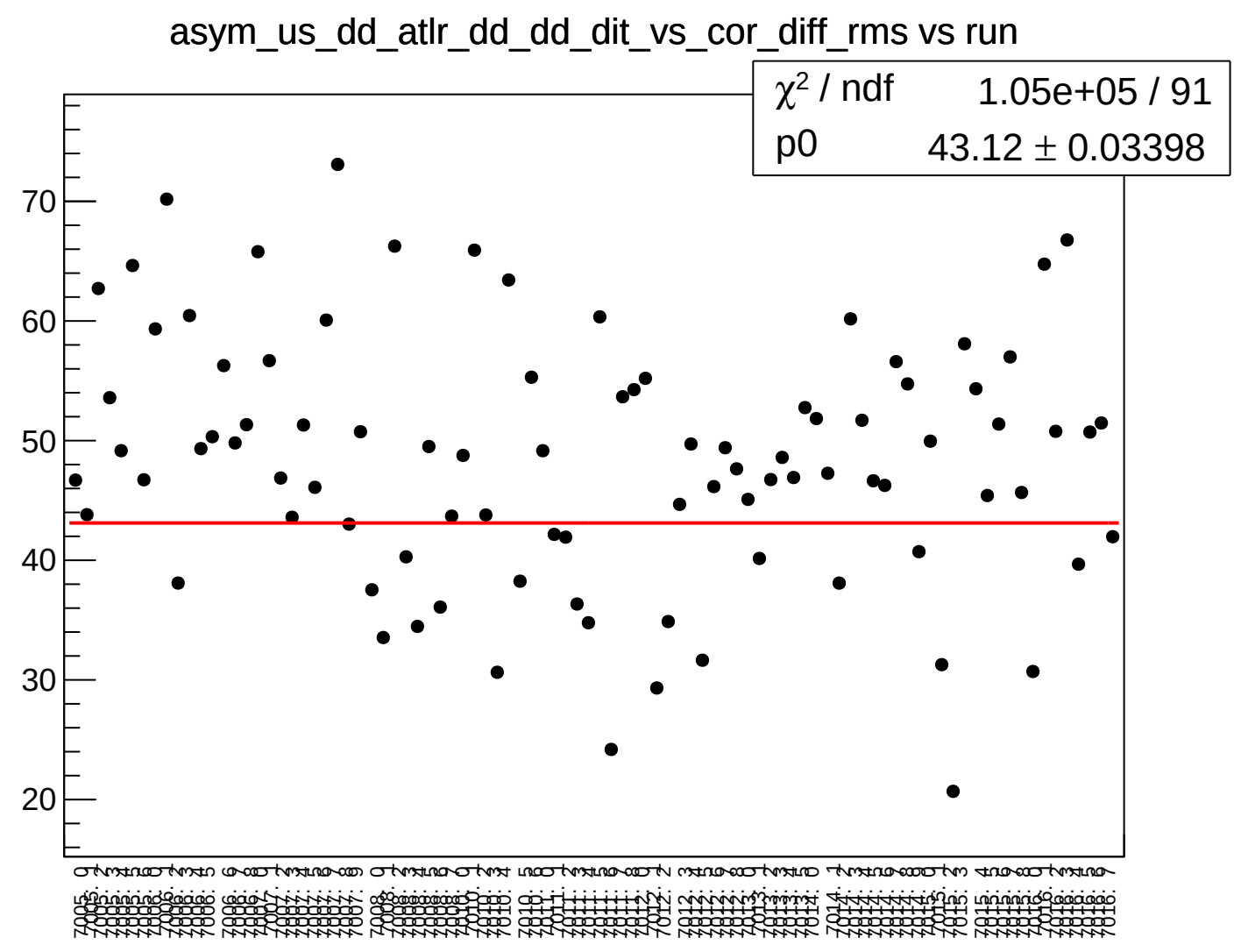

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 91
p0 8.035e−15 ± 1.607e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 92
Mean 87.83
Std Dev 0
3
2
1
0
−1
−2

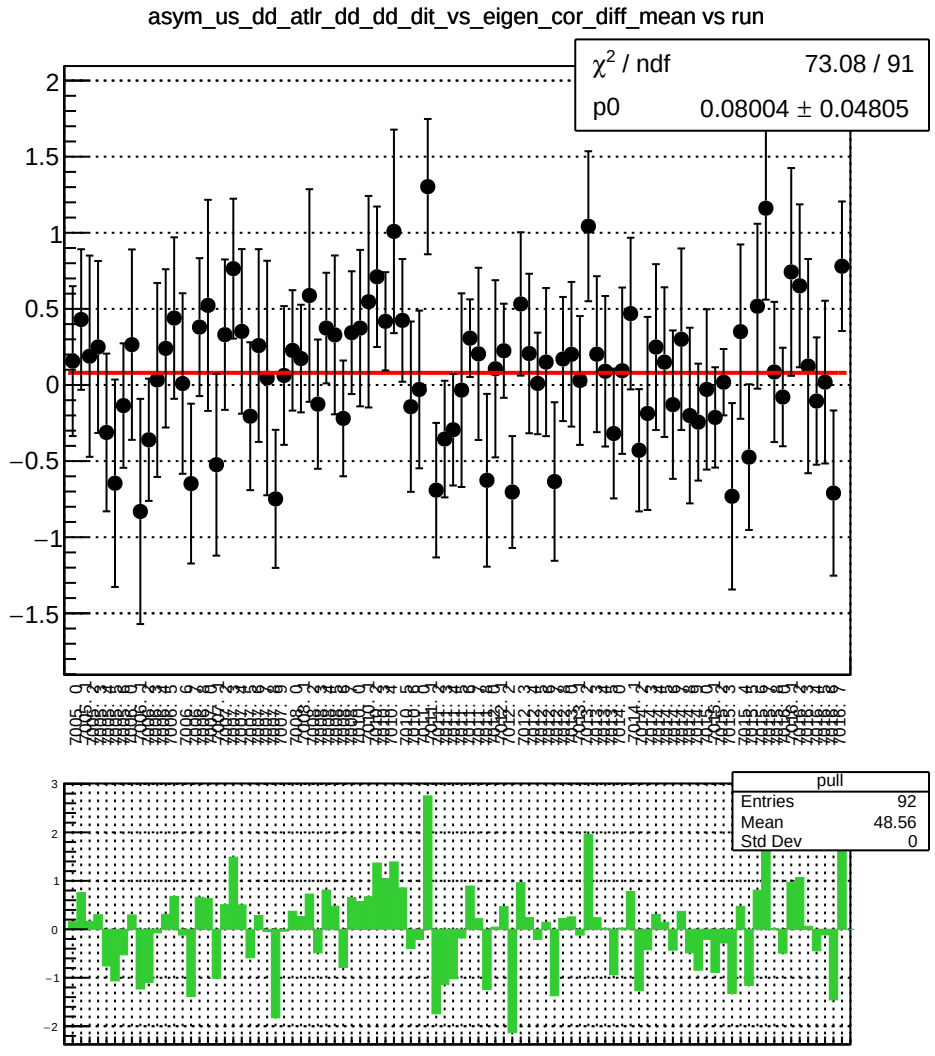

pull1D
Entries 92
Mean −0.02837
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

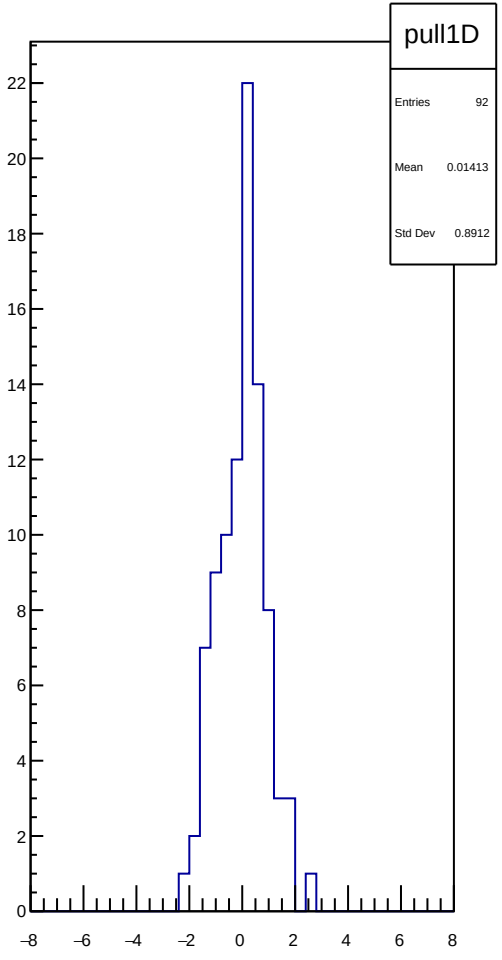

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.182e+06 / 91
p0 8.3e−12 ± 1.136e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

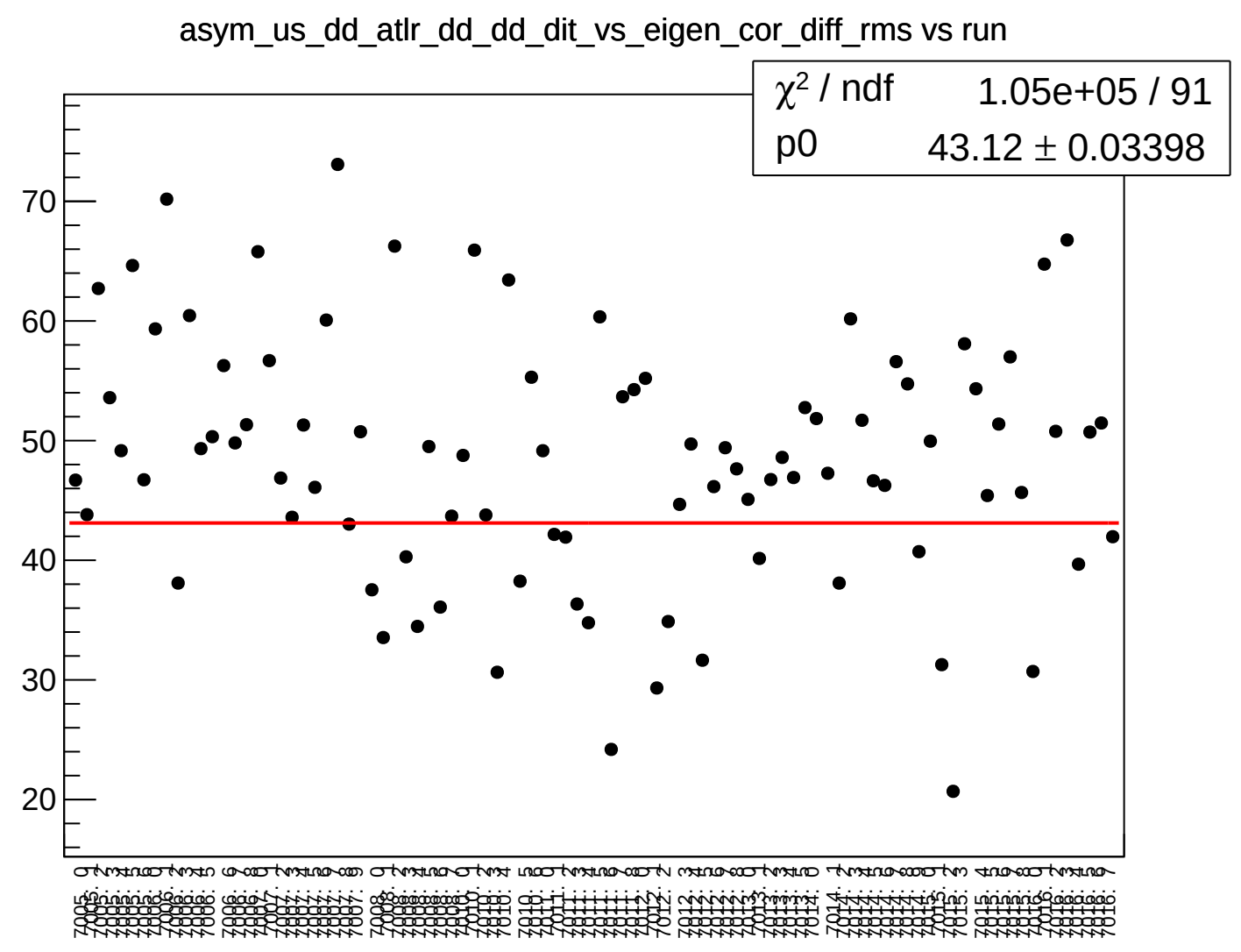

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.08 / 91
p0 0.08004 ± 0.04805
pull
Entries 92
Mean 48.56
Std Dev 0

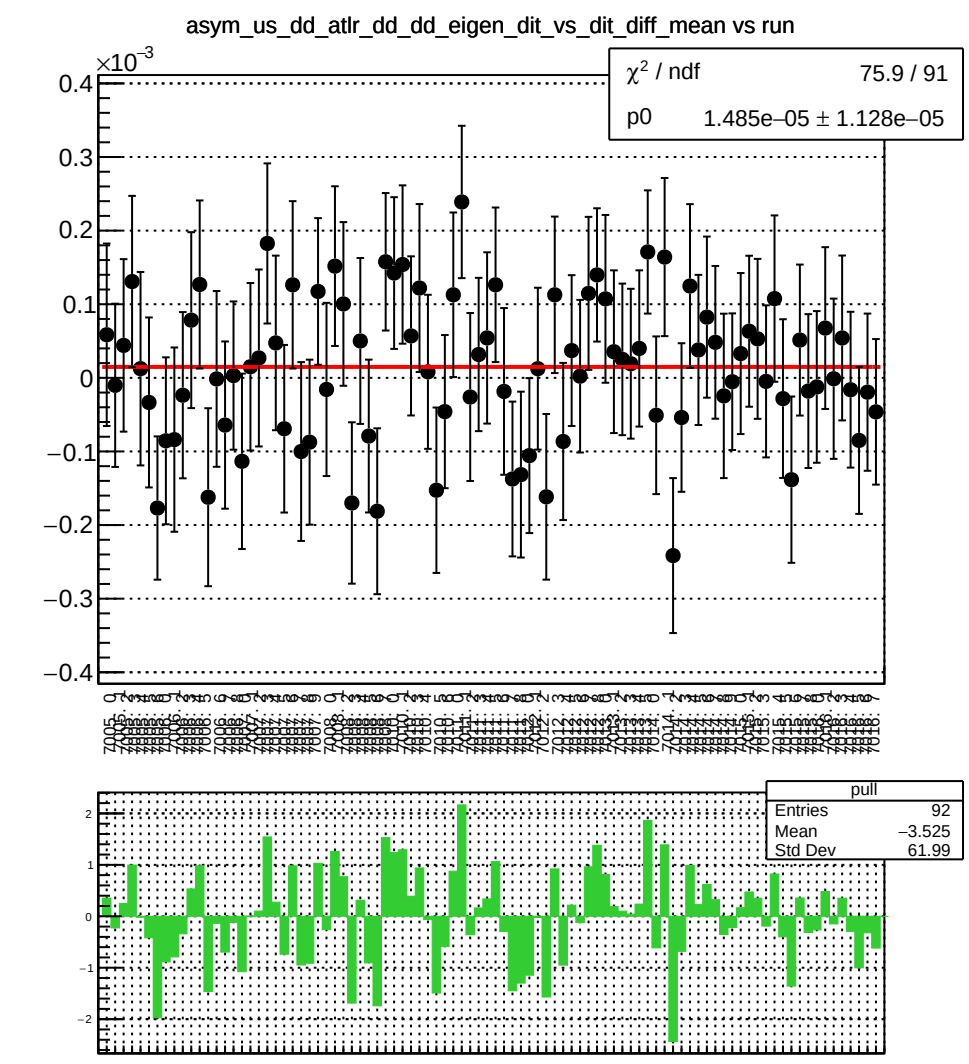

pull1D
Entries 92
Mean 0.01413
Std Dev 0.8912

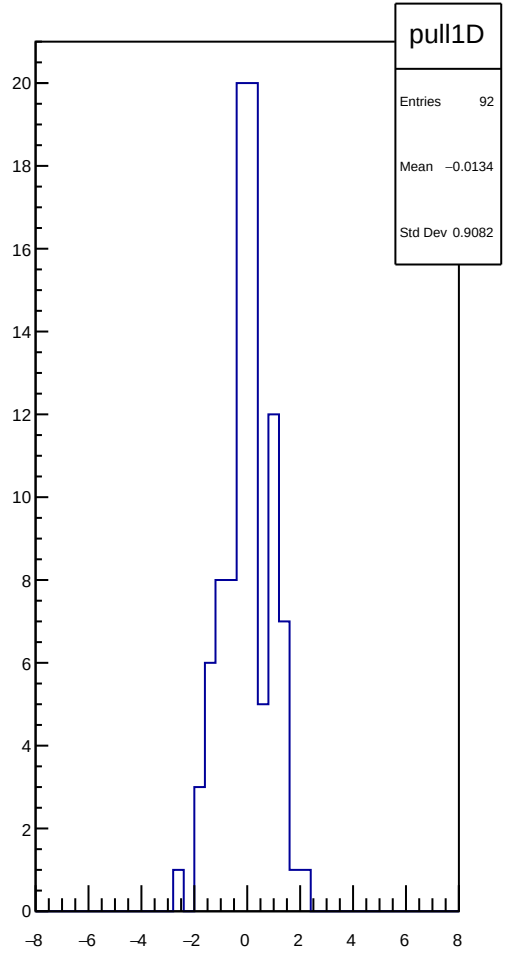

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.05e+05 / 91
p0 43.12 ± 0.03398
70
60
50
40
30
20

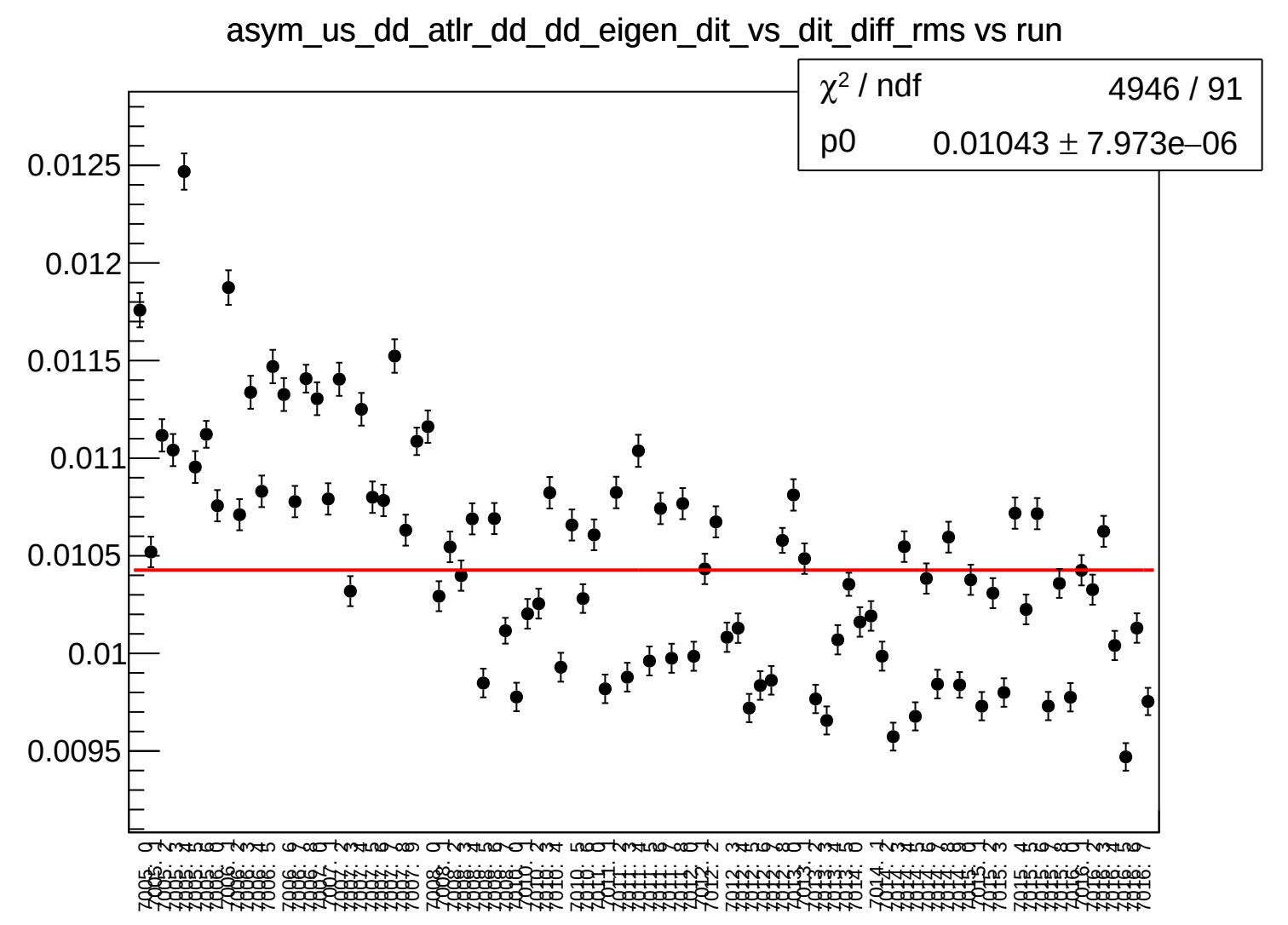

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.08 / 91
p0 0.08004 ± 0.04805
pull
Entries 92
Mean 48.56
Std Dev 0

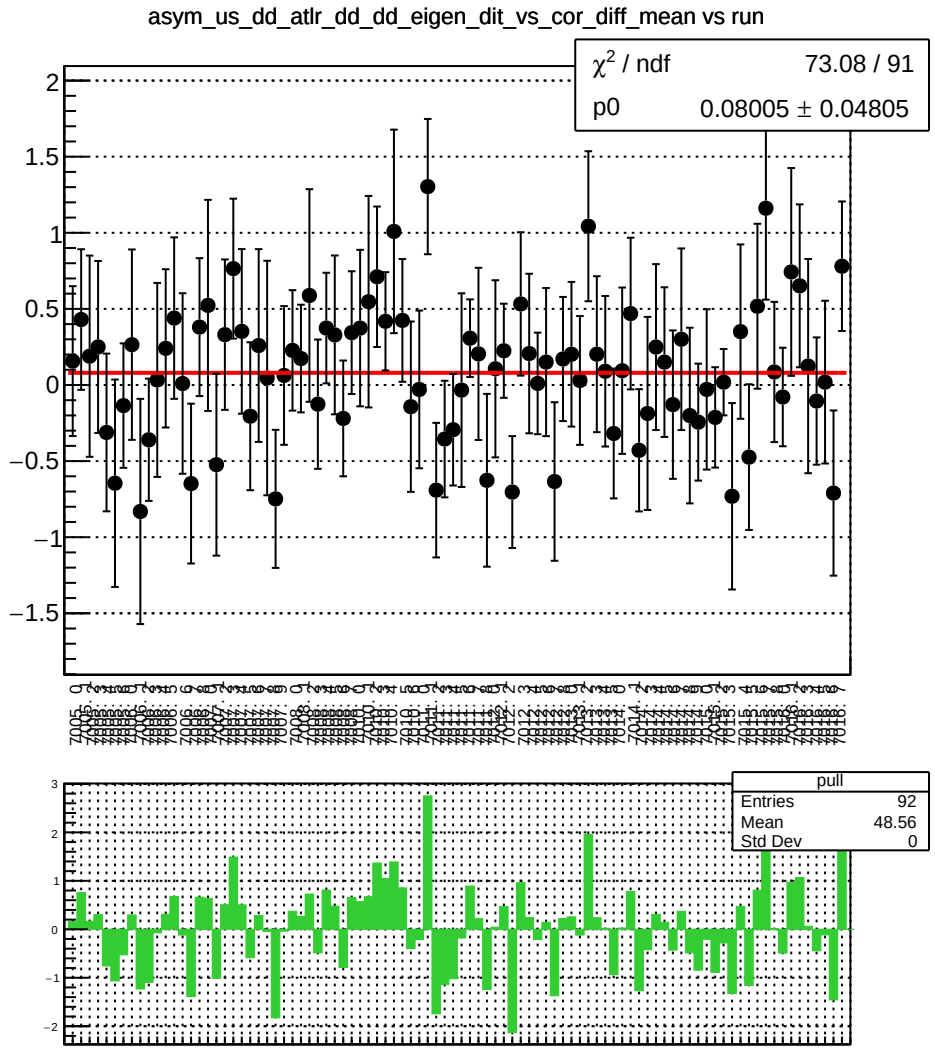

pull1D
Entries 92
Mean 0.01413
Std Dev 0.8912

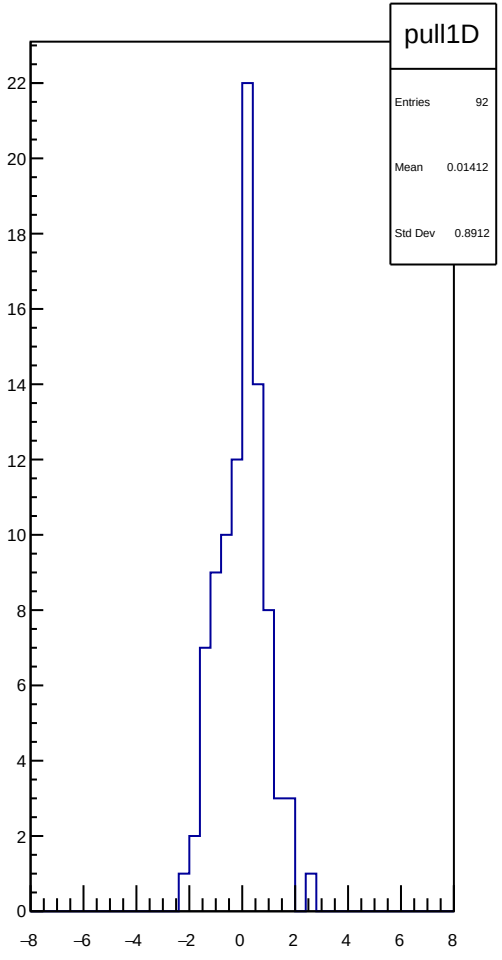

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.05e+05 / 91
p0 43.12 ± 0.03398
70
60
50
40
30
20

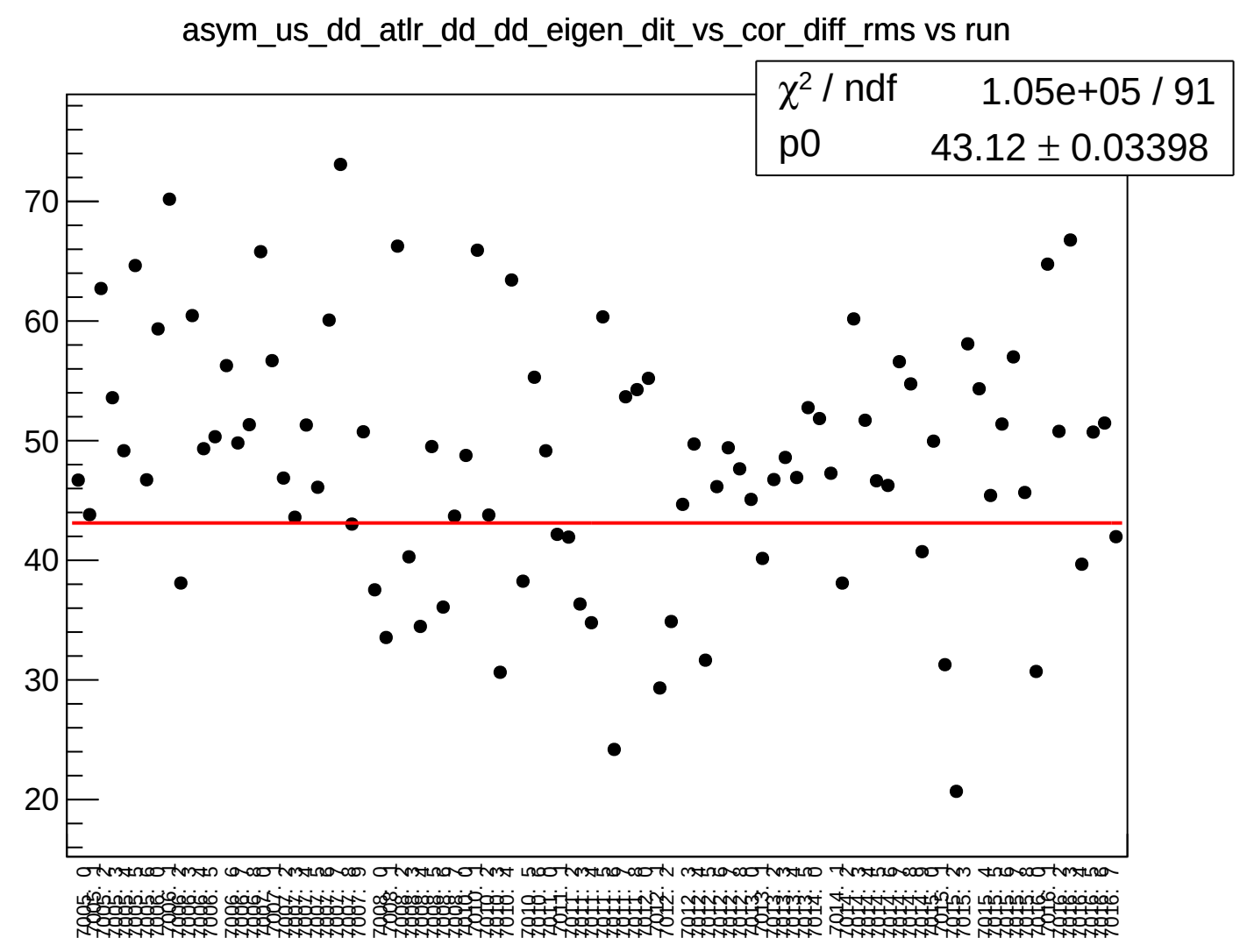

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.9 / 91
p0 1.485e−05 ± 1.128e−05
pull
Entries 92
Mean −3.525
Std Dev 61.99

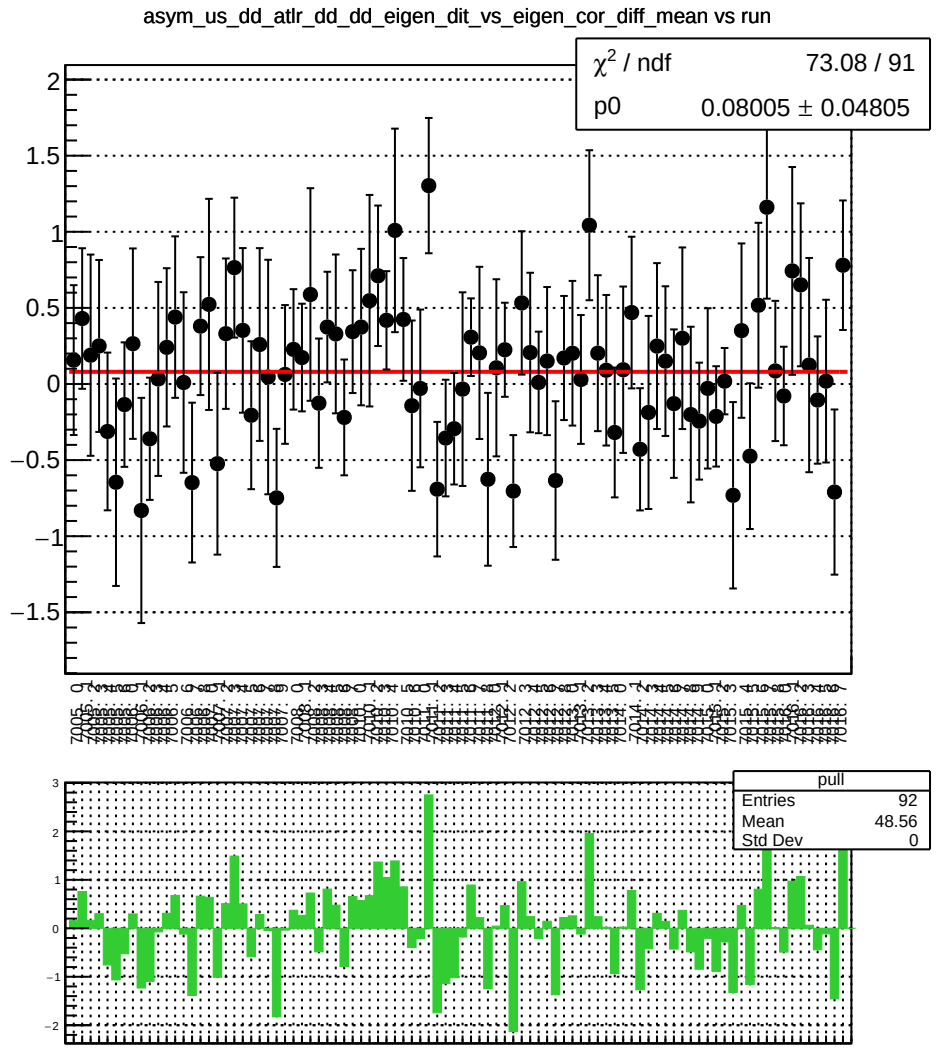

pull1D
Entries 92
Mean −0.0134
Std Dev 0.9082

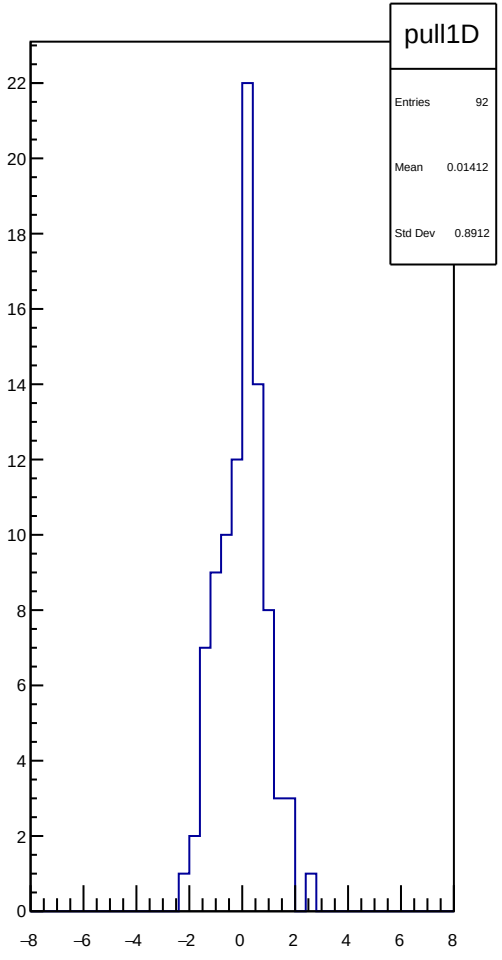

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4946 / 91
p0 0.01043 ± 7.973e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

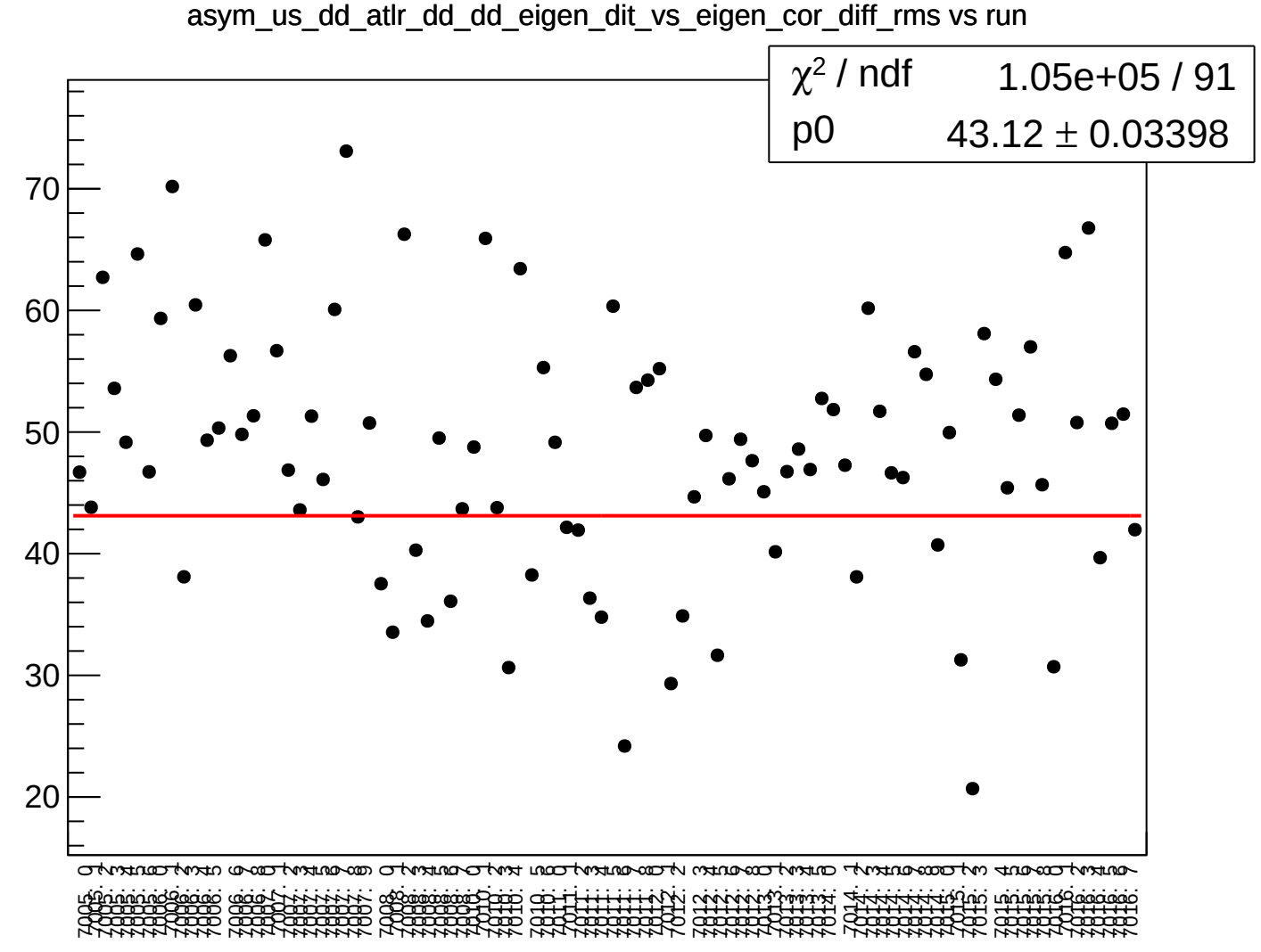

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.08 / 91
p0 0.08005 ± 0.04805
pull
Entries 92
Mean 48.56
Std Dev 0

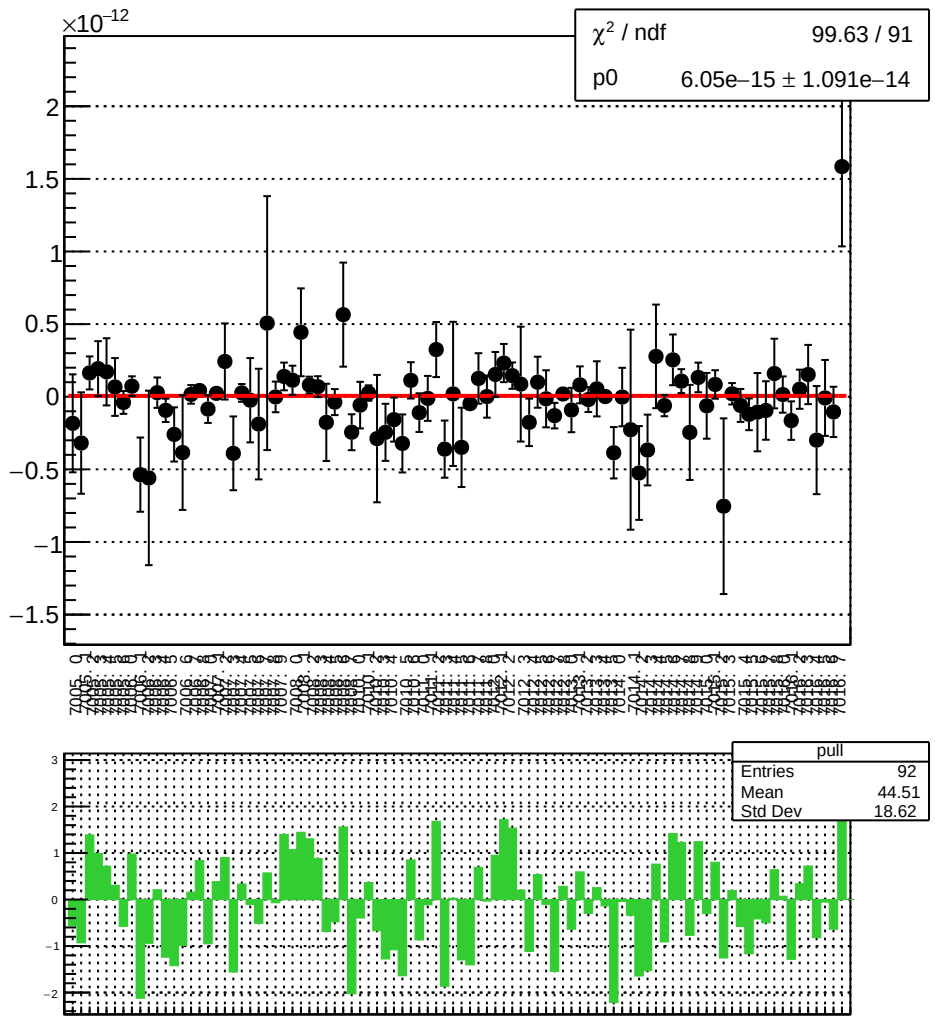

pull1D
Entries 92
Mean 0.01412
Std Dev 0.8912

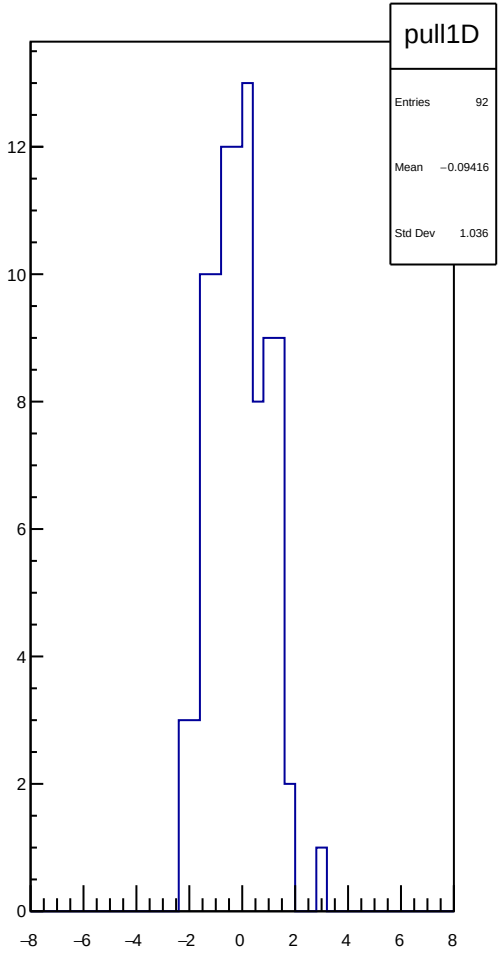

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.05e+05 / 91
p0 43.12 ± 0.03398
70
60
50
40
30
20

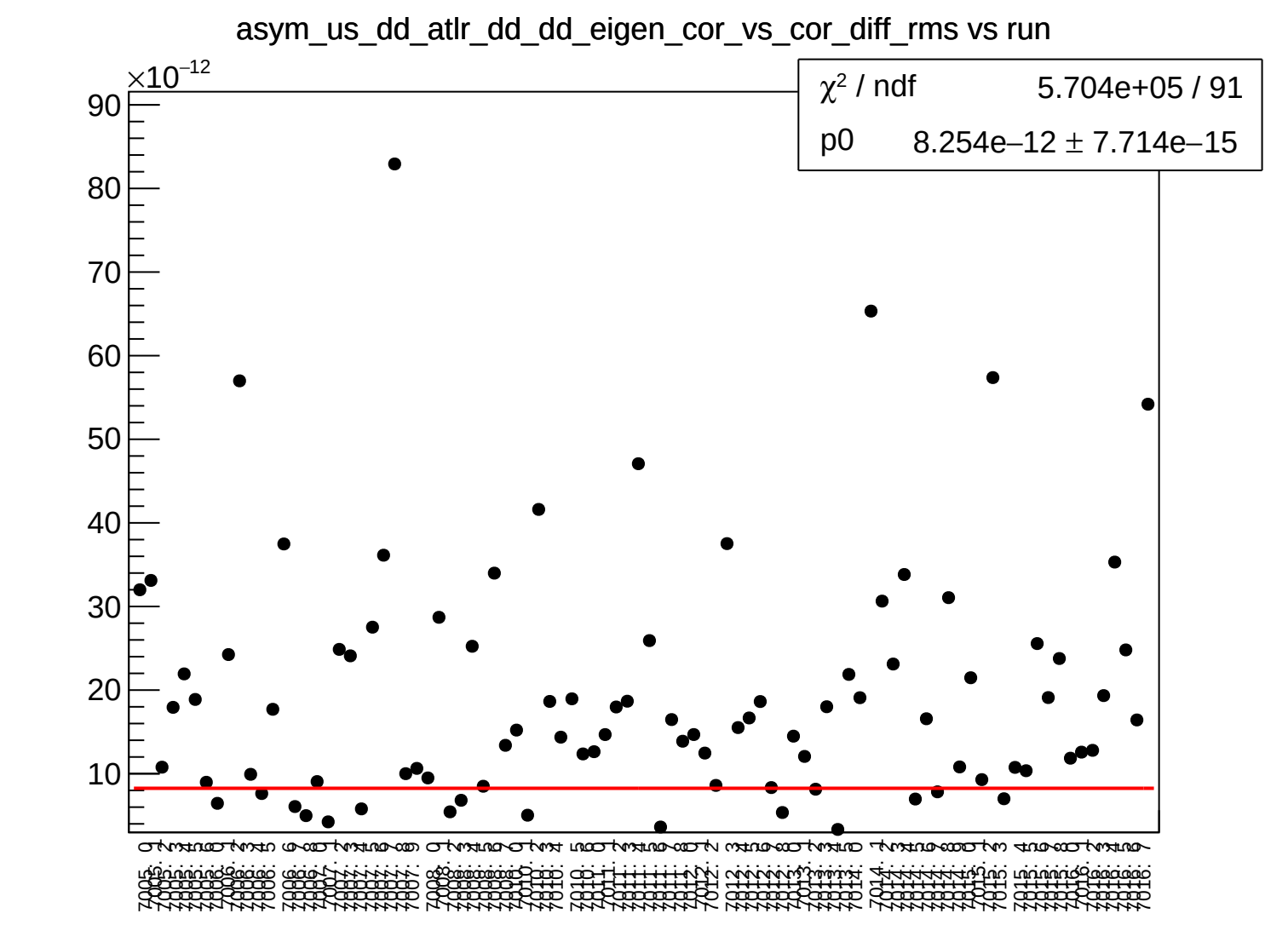

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.08 / 91
p0 0.08005 ± 0.04805
pull
Entries 92
Mean 48.56
Std Dev 0

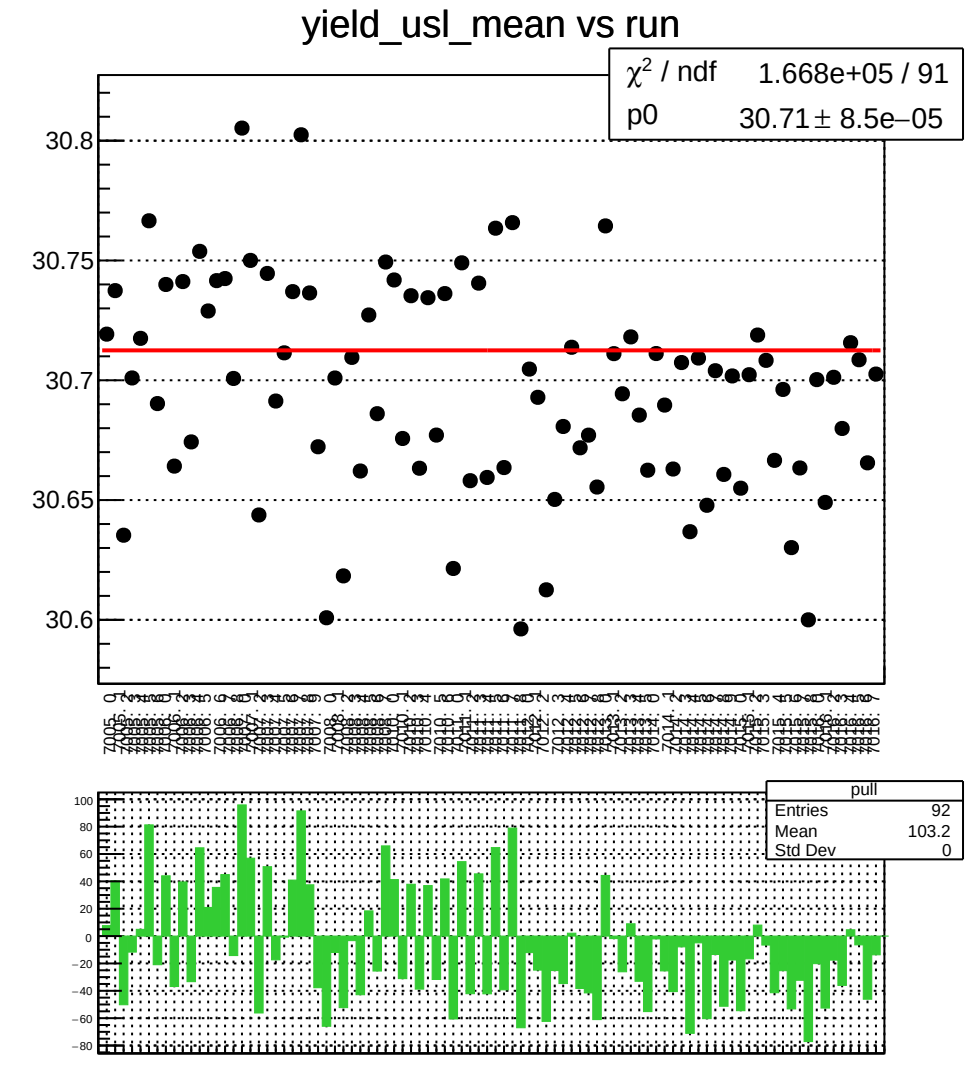

pull1D
Entries 92
Mean 0.01412
Std Dev 0.8912

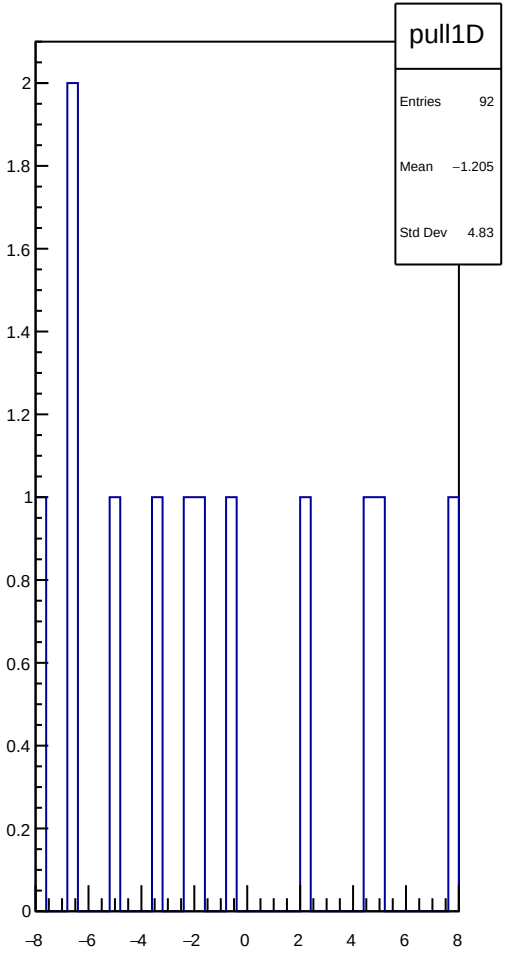

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.05e+05 / 91
p0 43.12 ± 0.03398
70
60
50
40
30
20

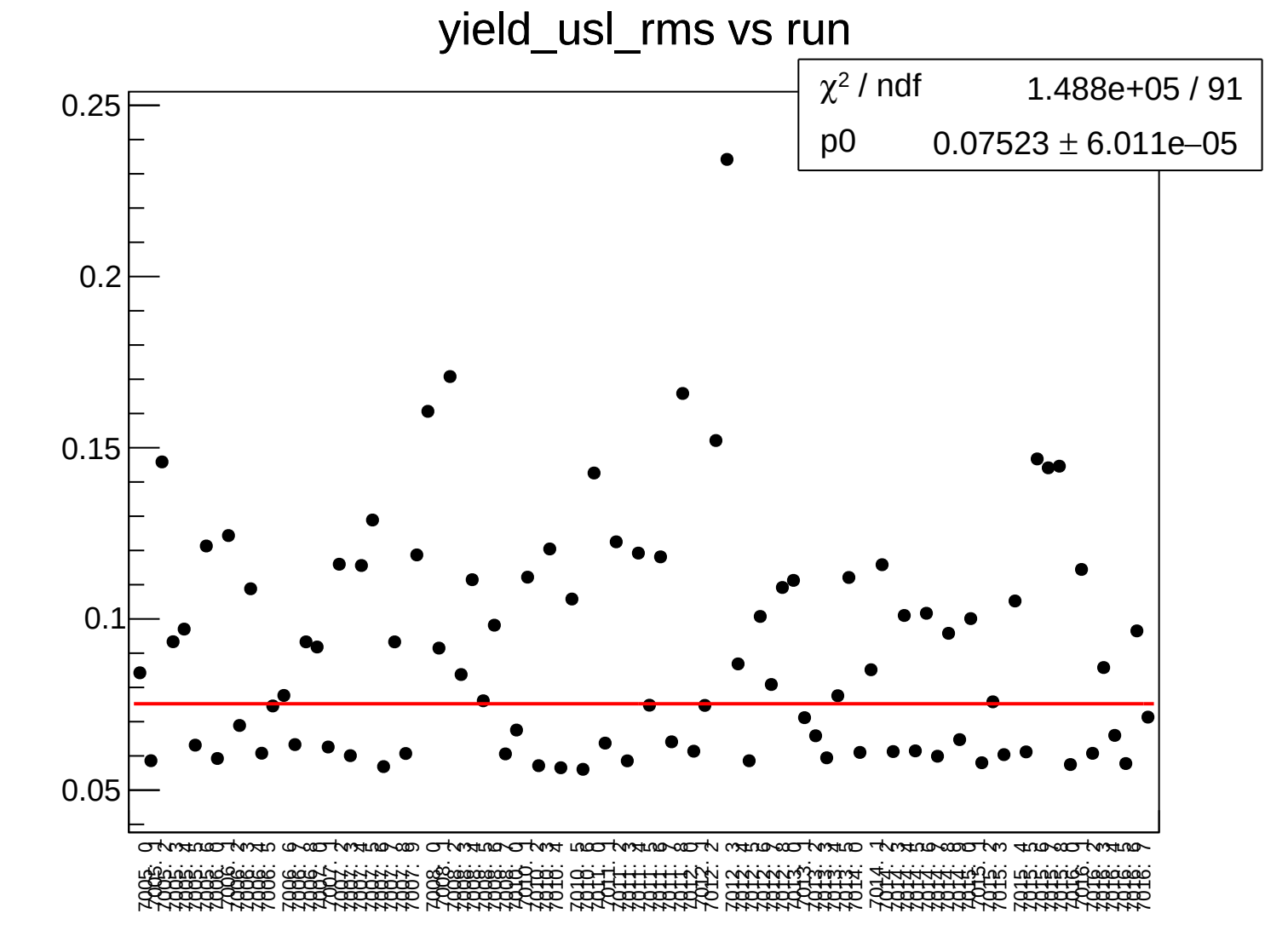

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.63 / 91
p0 6.05e−15 ± 1.091e−14
pull
Entries 92
Mean 44.51
Std Dev 18.62

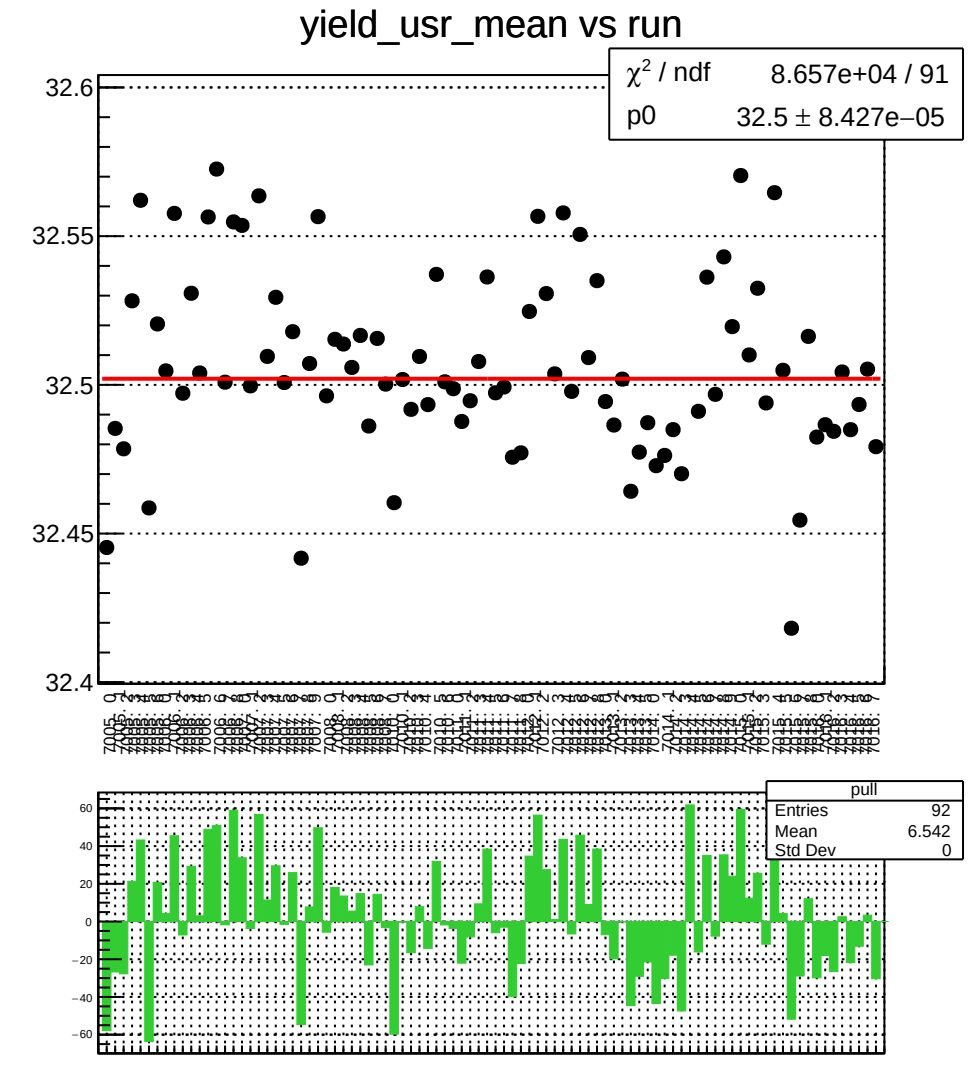

pull1D
Entries 92
Mean −0.09416
Std Dev 1.036

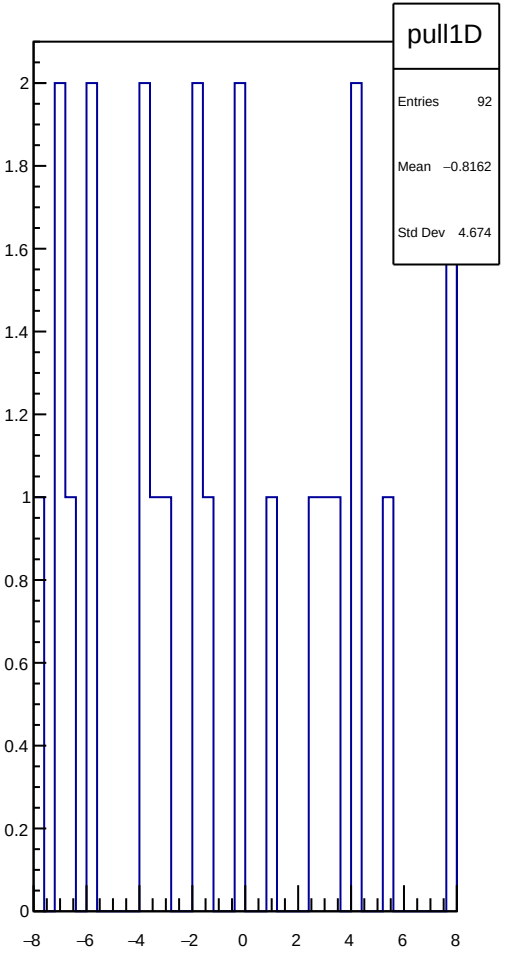

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.704e+05 / 91
p0 8.254e−12 ± 7.714e−15
90
80
70
60
50
40
30
20
10

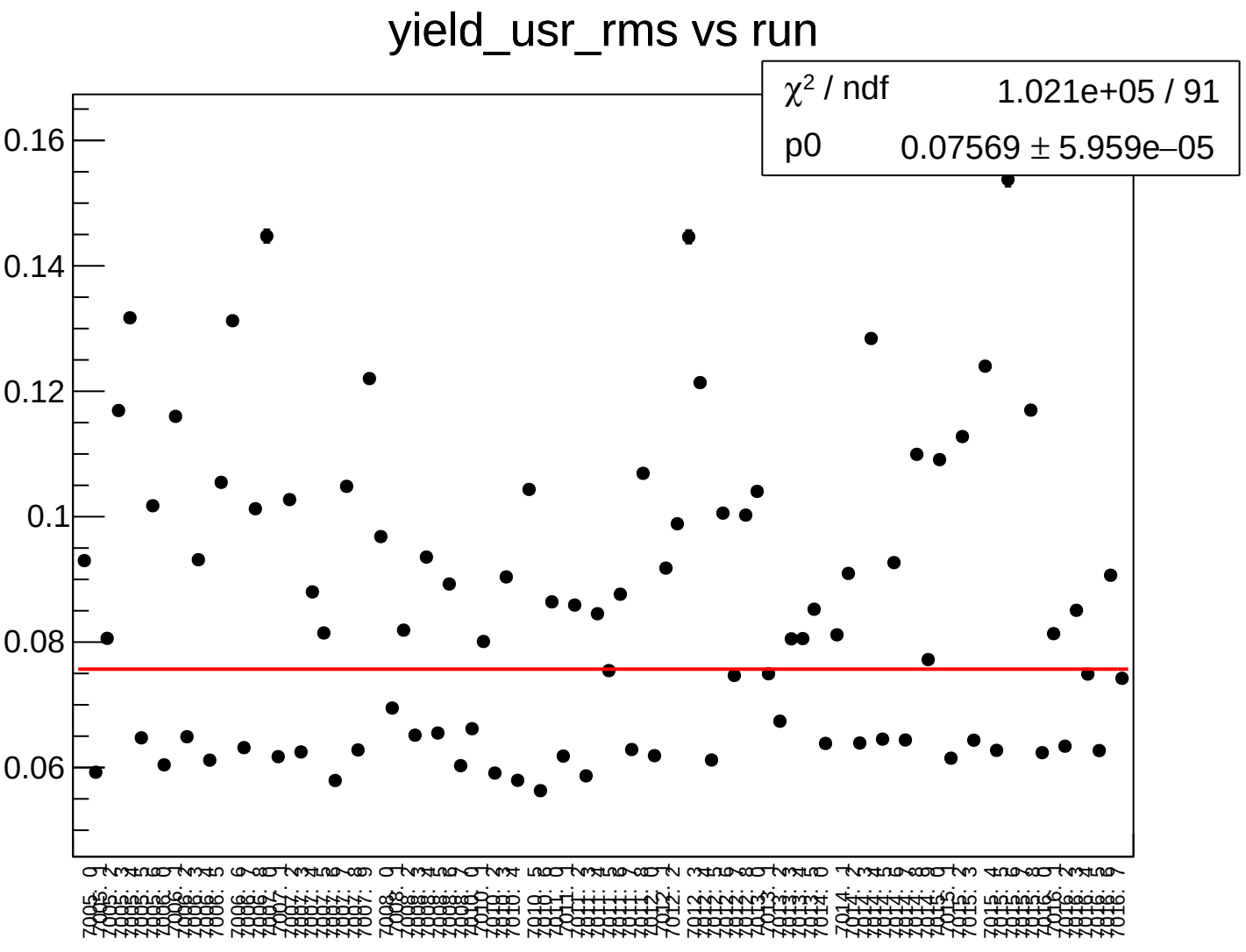

yield_usl_mean vs run
χ² / ndf 1.668e+05 / 91
p0 30.71 ± 8.5e−05
30.8
30.75
30.7
30.65
30.6
pull
Entries 92
Mean 103.2
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

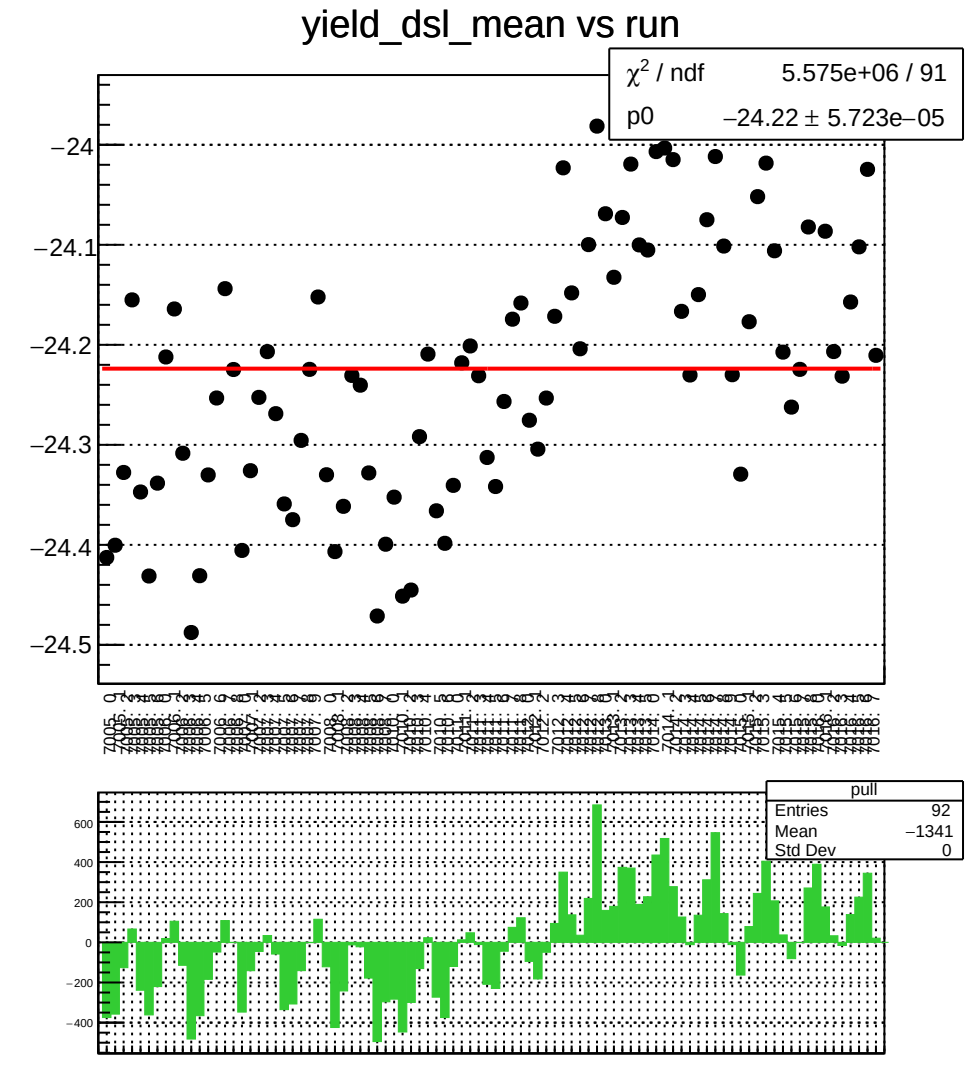

pull1D
Entries 92
Mean −1.205
Std Dev 4.83
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

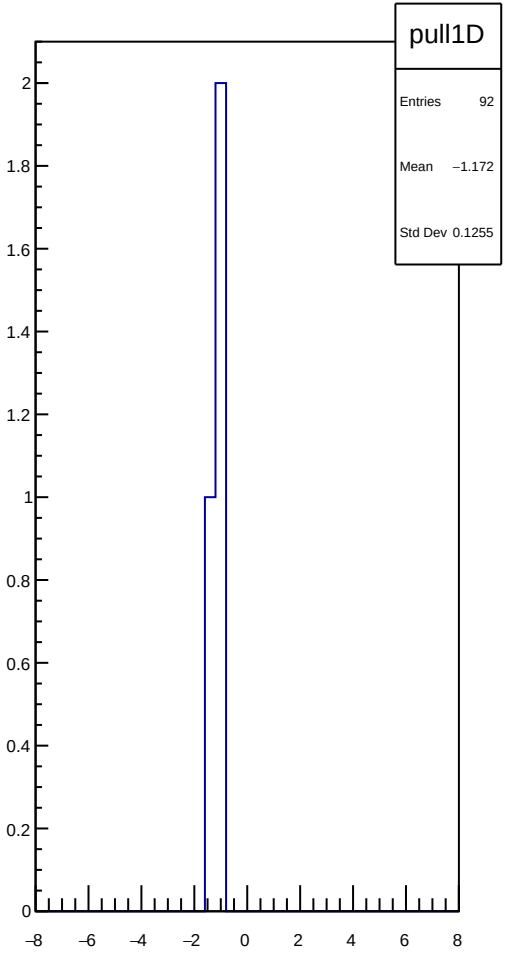

yield_usl_rms vs run
χ² / ndf 1.488e+05 / 91
p0 0.07523 ± 6.011e–05
0.25
0.2
0.15
0.1
0.05

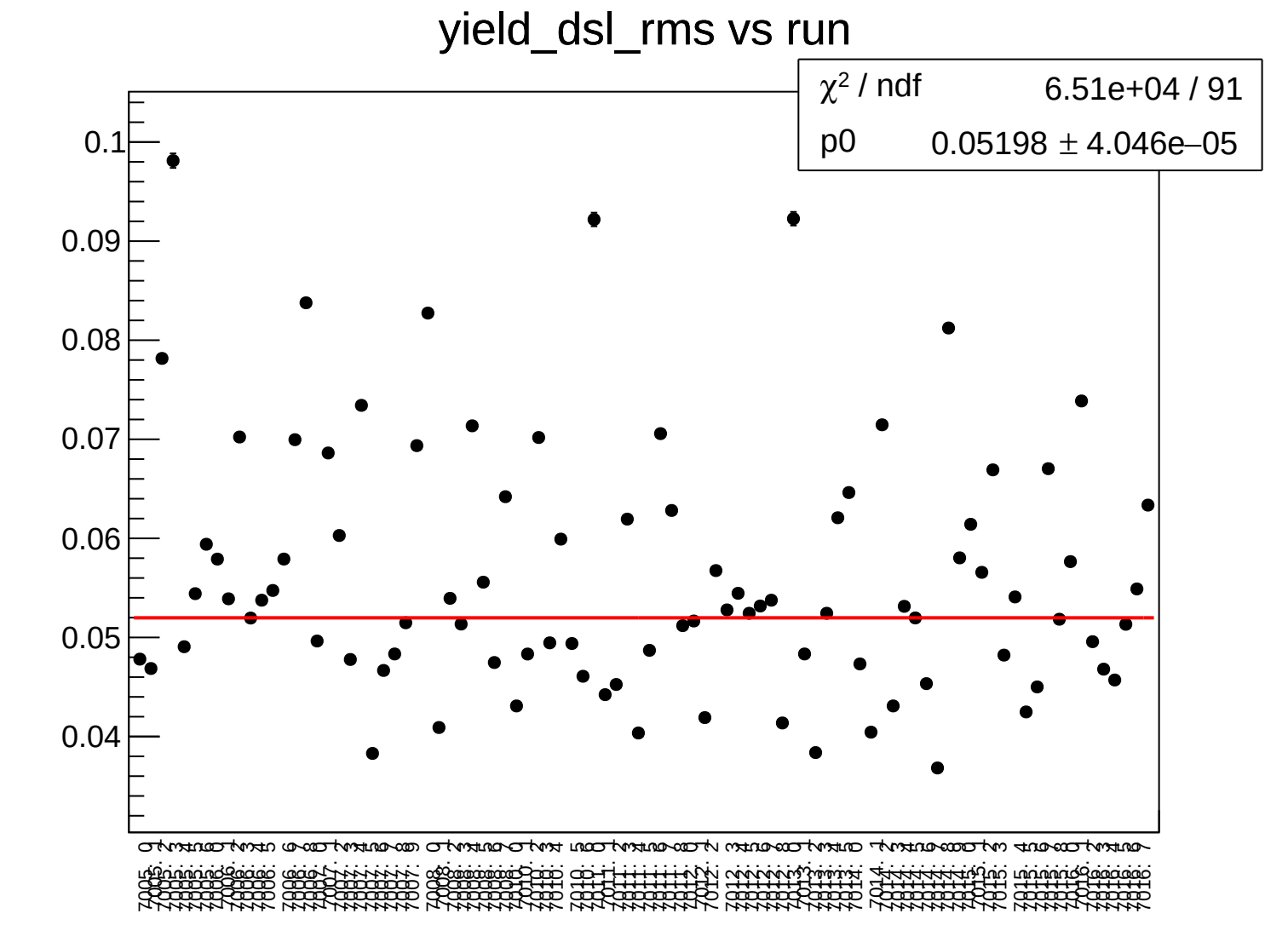

yield_usr_mean vs run
χ² / ndf 8.657e+04 / 91
p0 32.5 ± 8.427e−05
32.6
32.55
32.5
32.45
32.4
pull
Entries 92
Mean 6.542
Std Dev 0
60
40
20
0
−20
−40
−60

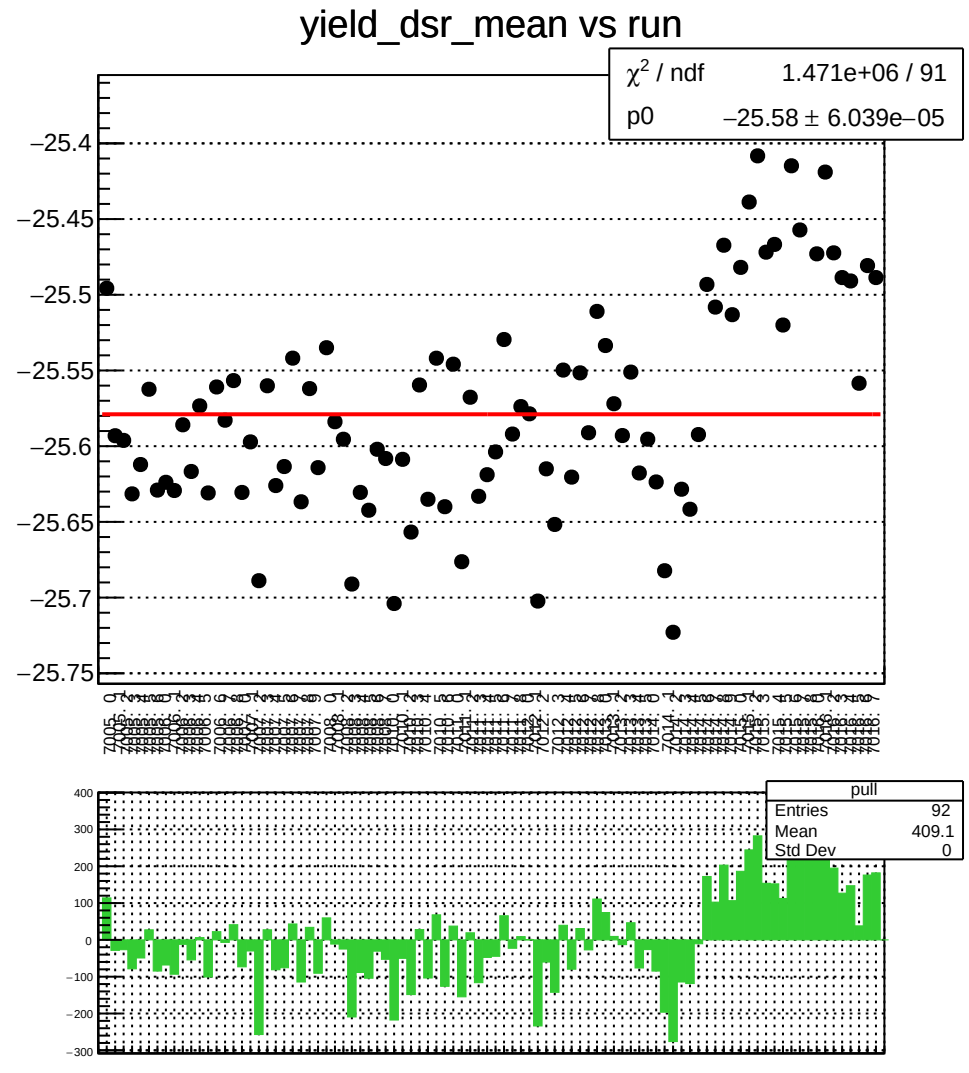

pull1D
Entries 92
Mean −0.8162
Std Dev 4.674
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

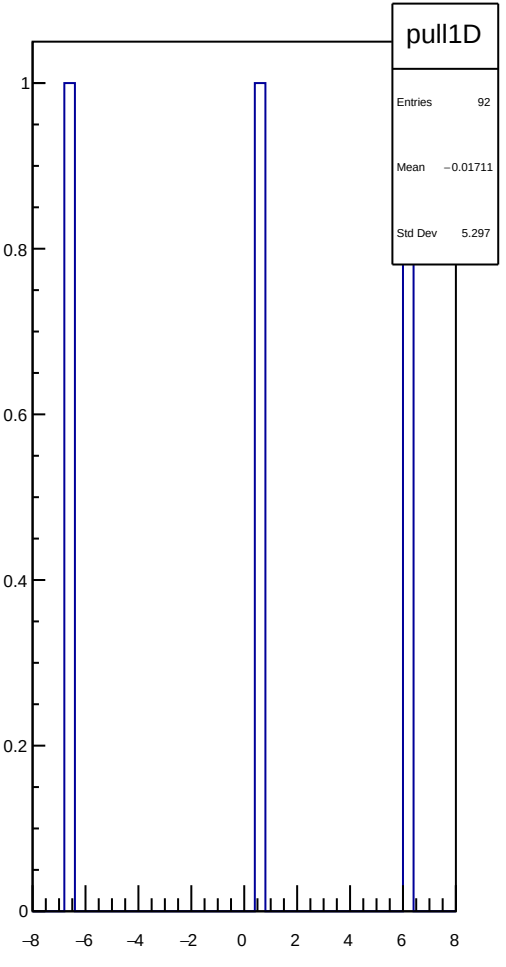

yield_usr_rms vs run
χ² / ndf 1.021e+05 / 91
p0 0.07569 ± 5.959e−05
0.16
0.14
0.12
0.1
0.08
0.06

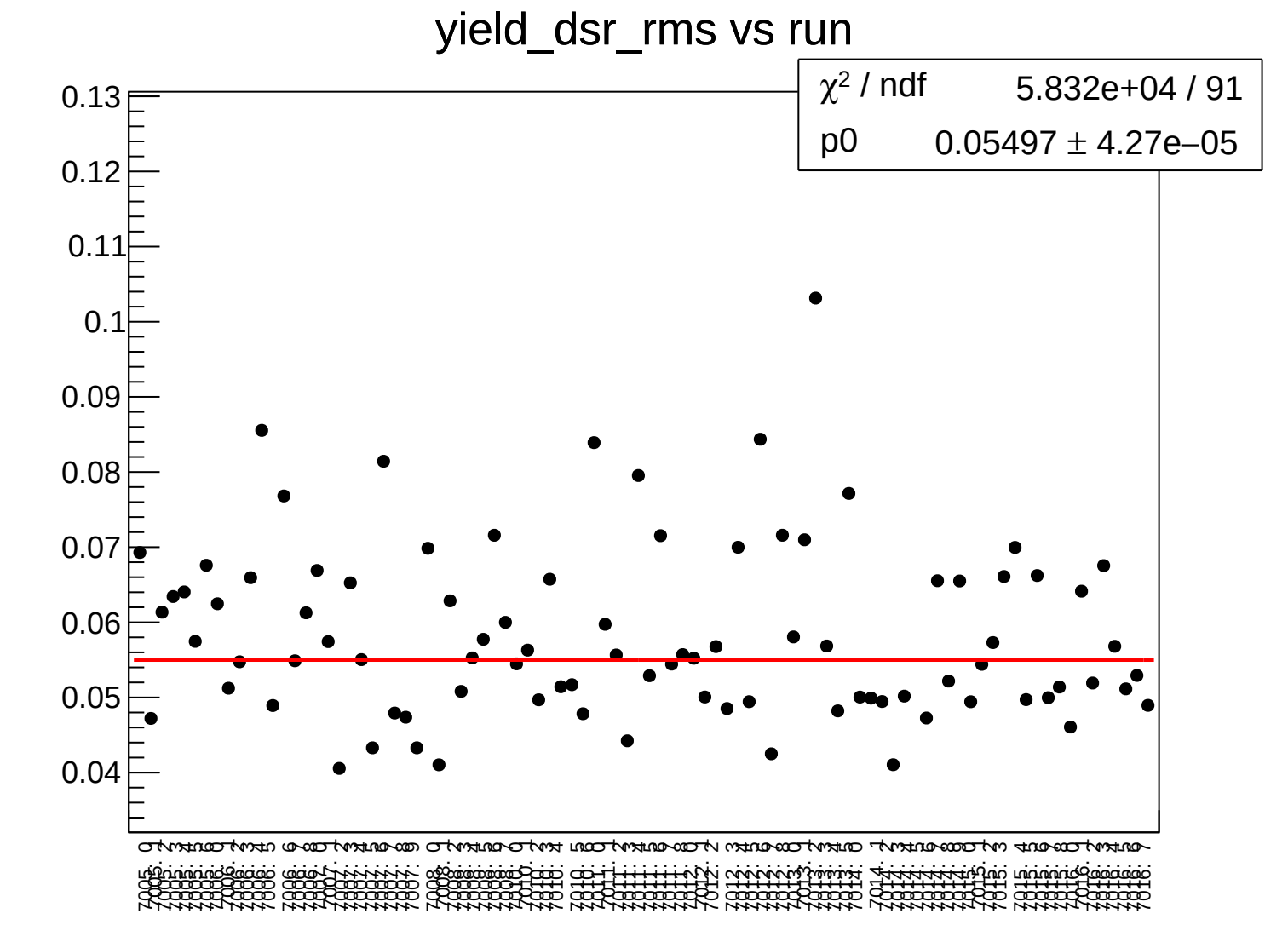

yield_dsl_mean vs run
χ² / ndf 5.575e+06 / 91
p0 −24.22 ± 5.723e−05
−24
−24.1
−24.2
−24.3
−24.4
−24.5
pull
Entries 92
Mean −1341
Std Dev 0
600
400
200
0
−200
−400

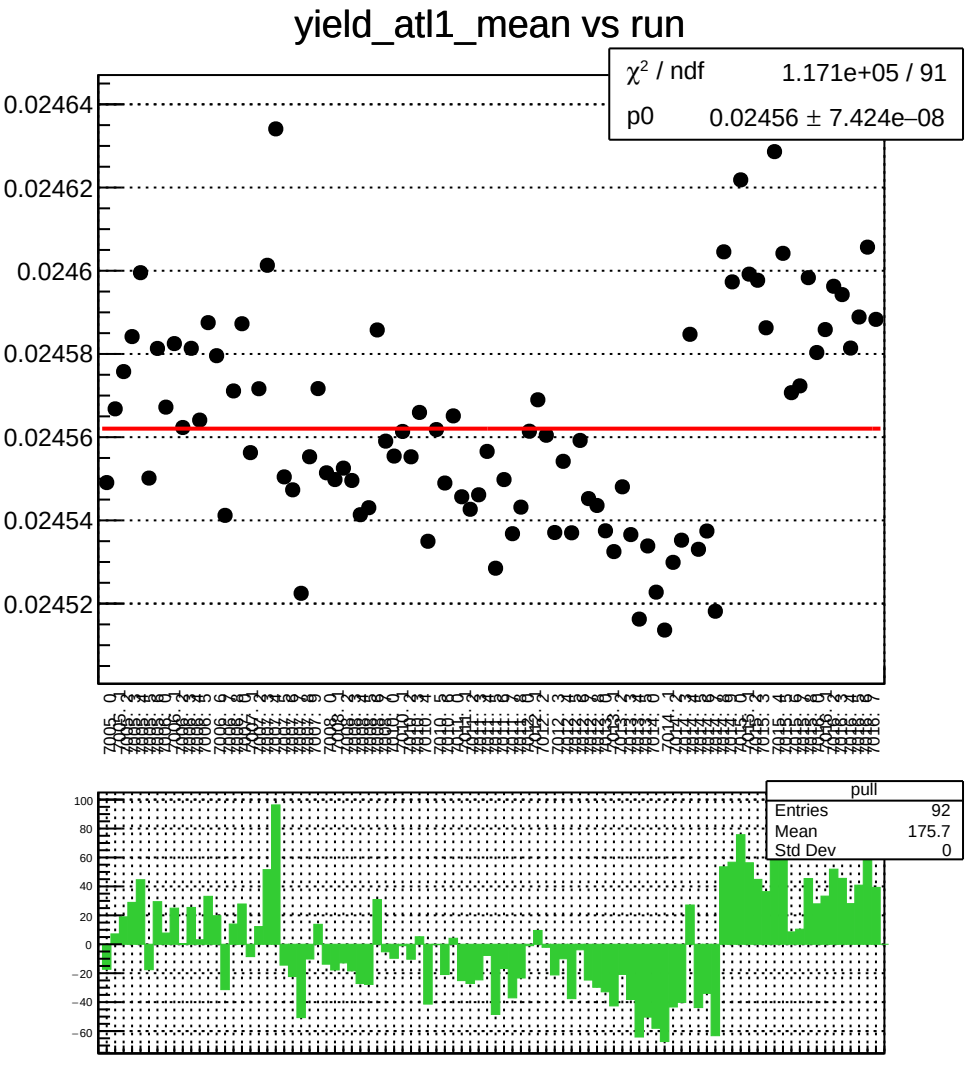

pull1D
Entries 92
Mean −1.172
Std Dev 0.1255
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

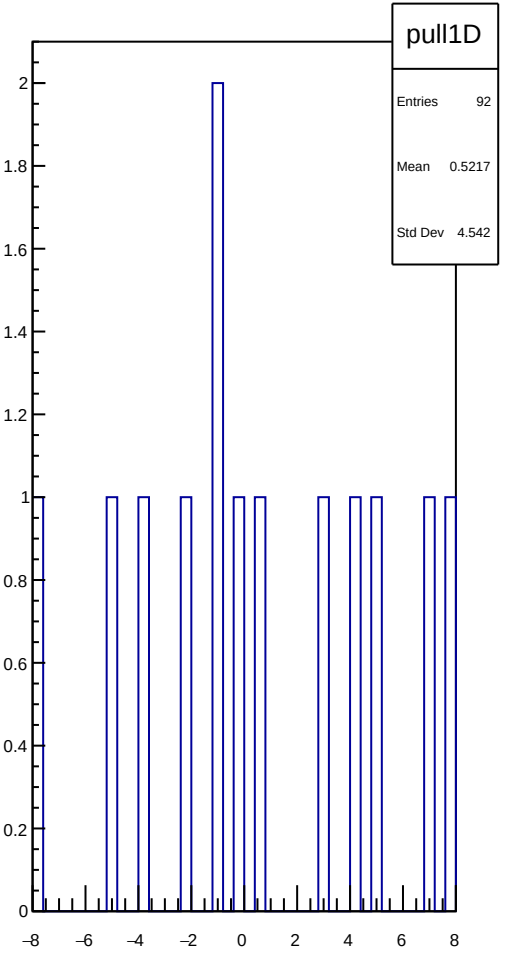

yield_dsl_rms vs run
χ² / ndf 6.51e+04 / 91
p0 0.05198 ± 4.046e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

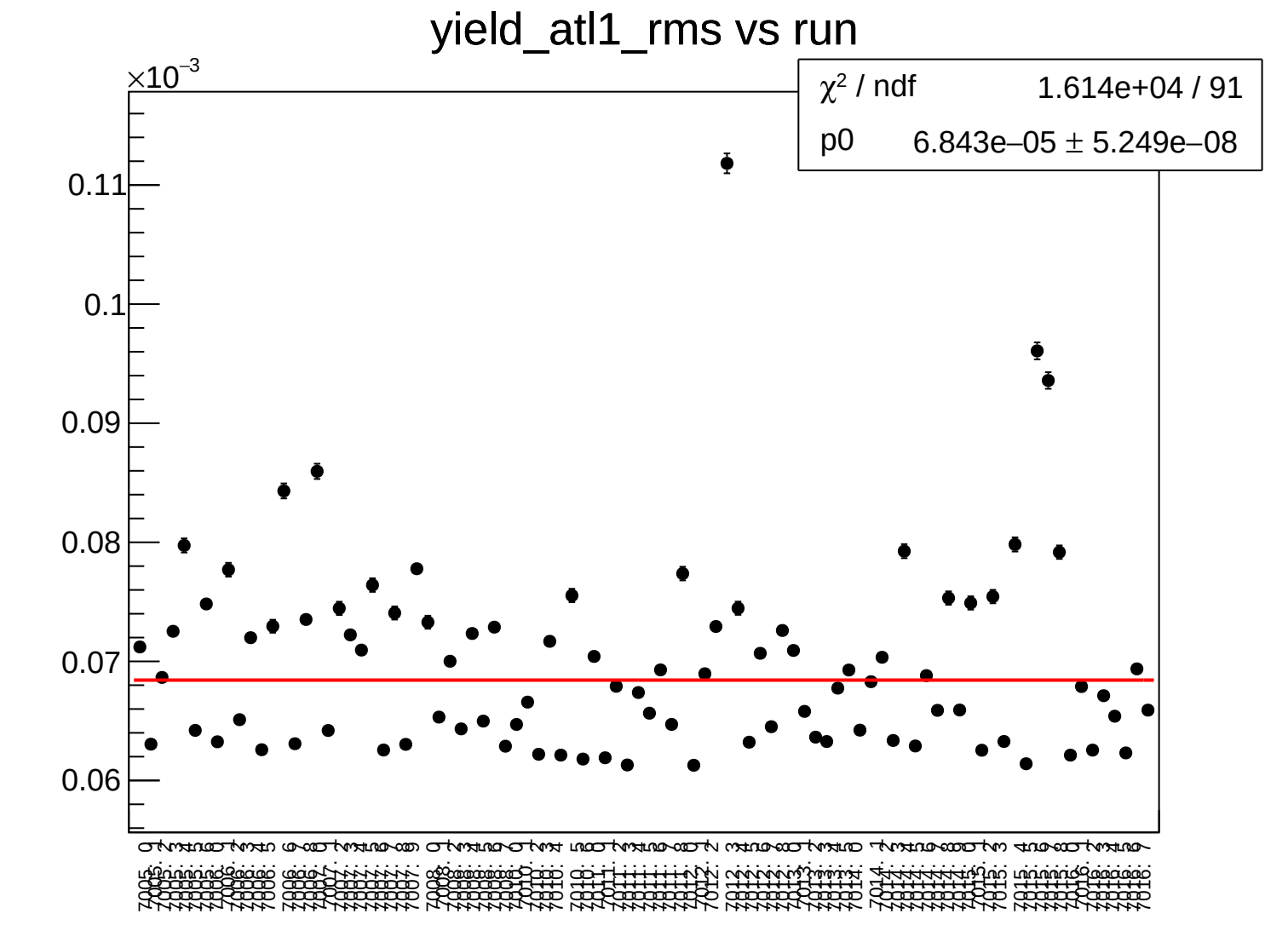

yield_dsr_mean vs run
χ² / ndf 1.471e+06 / 91
p0 −25.58 ± 6.039e−05
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
−25.7
−25.75
pull
Entries 92
Mean 409.1
Std Dev 0
400
300
200
100
0
−100
−200
−300

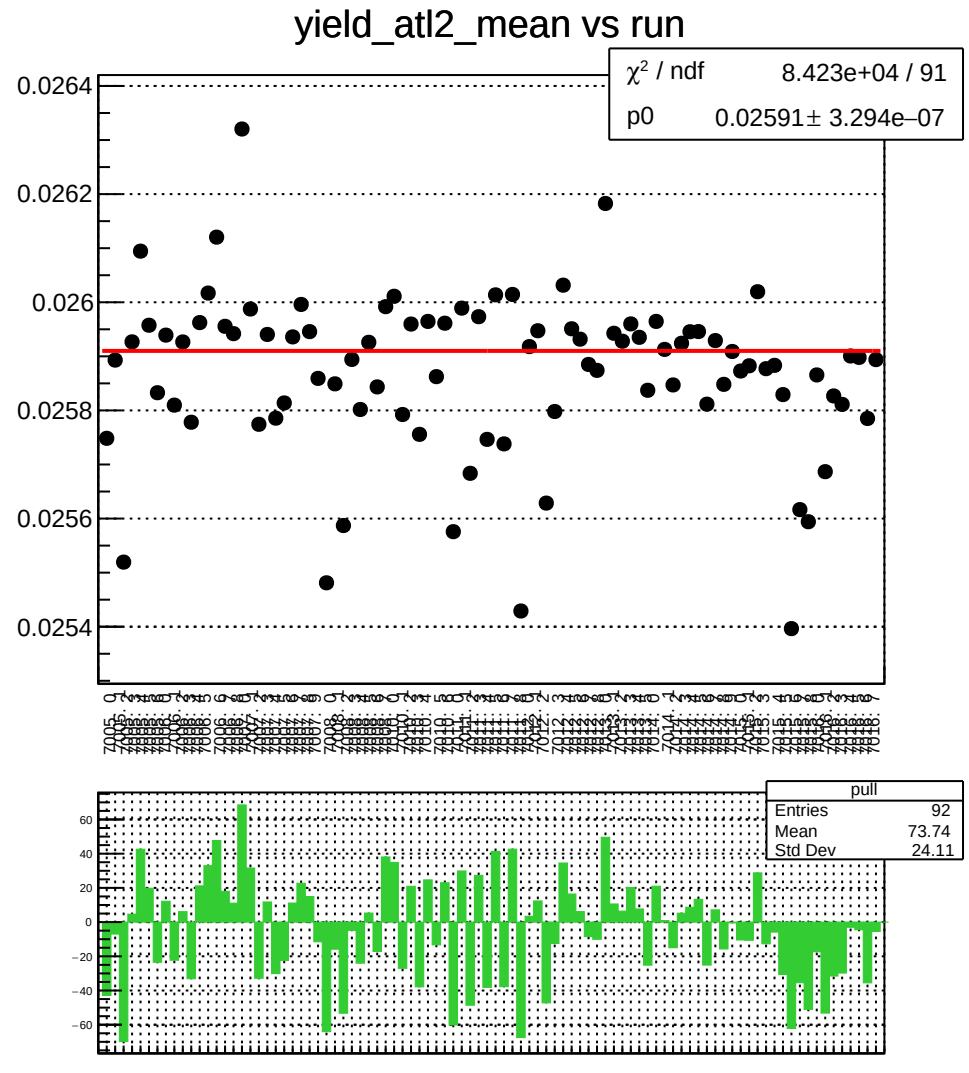

pull1D
Entries 92
Mean −0.01711
Std Dev 5.297
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

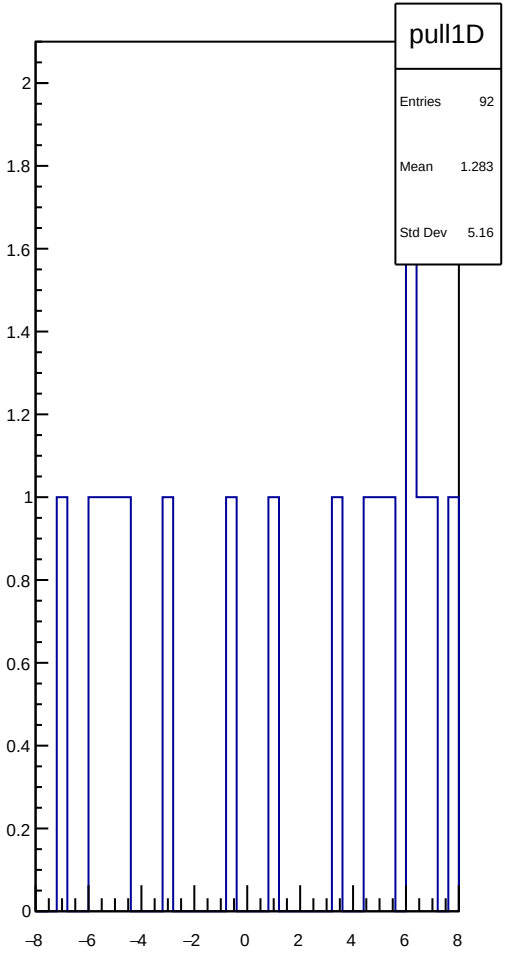

yield_dsr_rms vs run
χ² / ndf 5.832e+04 / 91
p0 0.05497 ± 4.27e−05
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

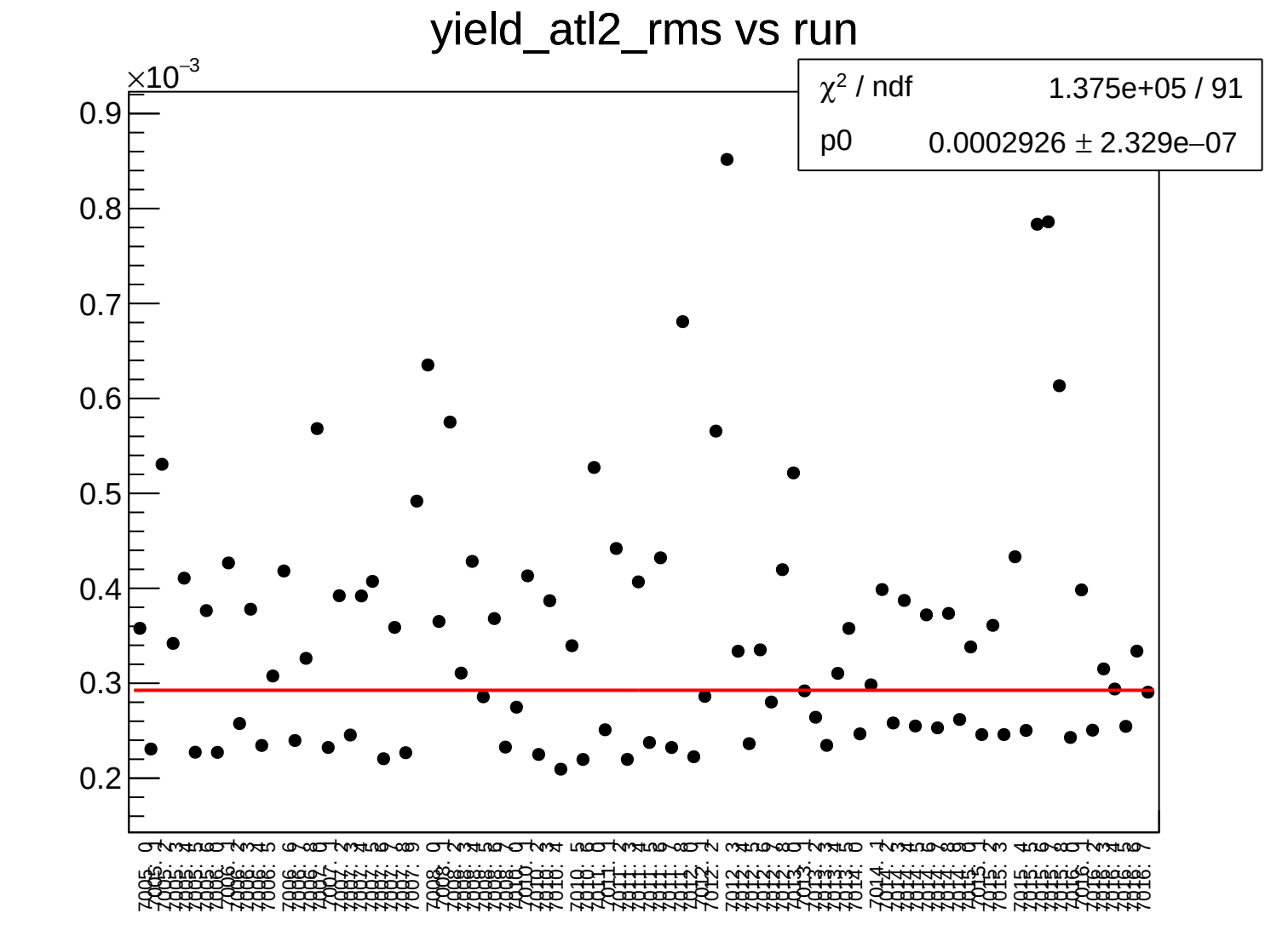

yield_atl1_mean vs run
χ² / ndf 1.171e+05 / 91
p0 0.02456 ± 7.424e−08
0.02464
0.02462
0.0246
0.02458
0.02456
0.02454
0.02452
pull
Entries 92
Mean 175.7
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

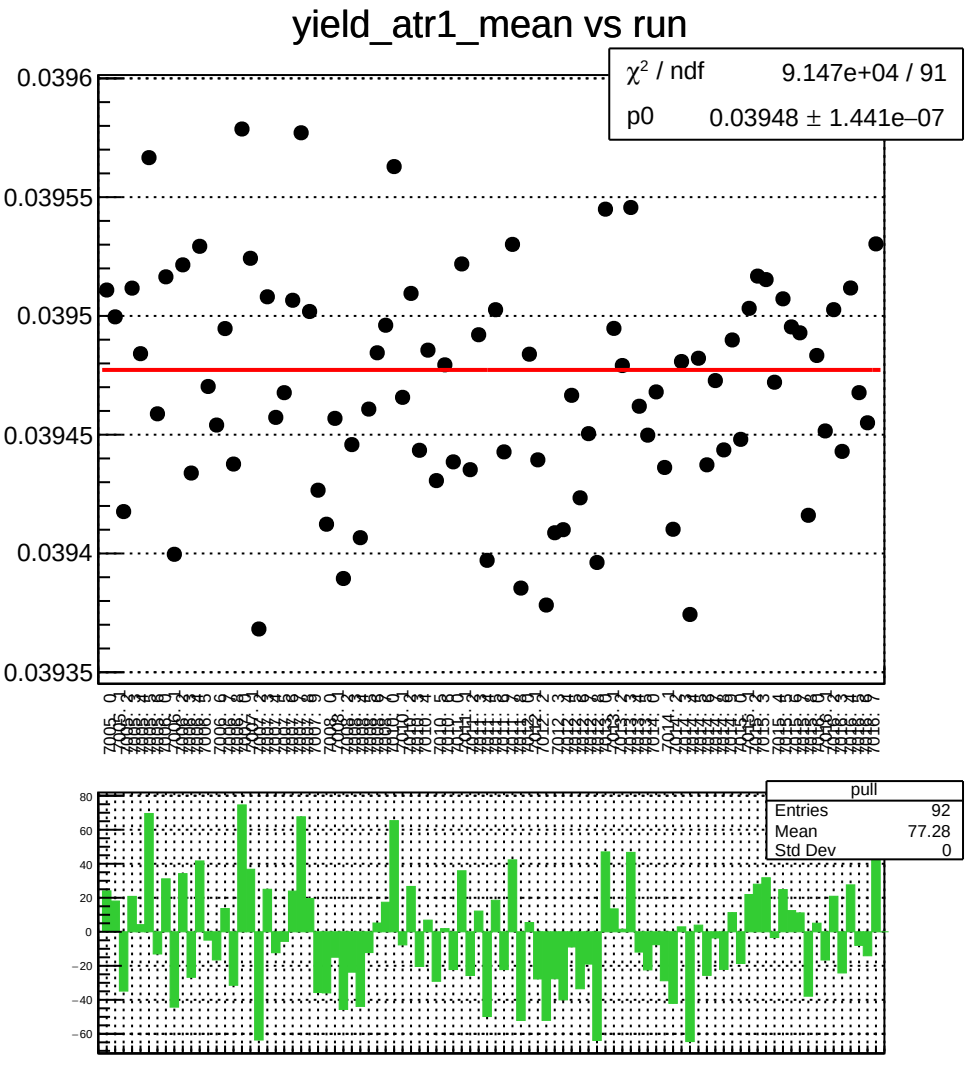

pull1D
Entries 92
Mean 0.5217
Std Dev 4.542
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

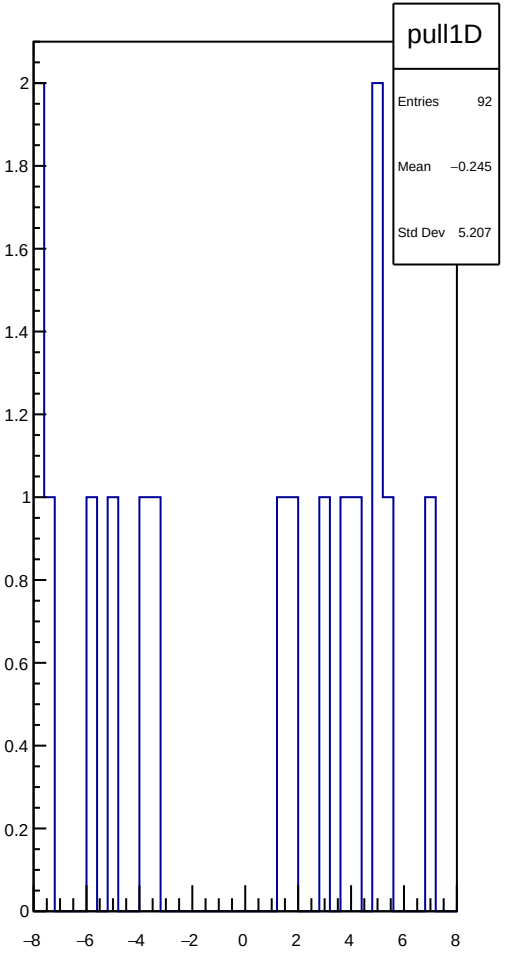

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.614e+04 / 91
p0 6.843e−05 ± 5.249e−08
0.11
0.1
0.09
0.08
0.07
0.06

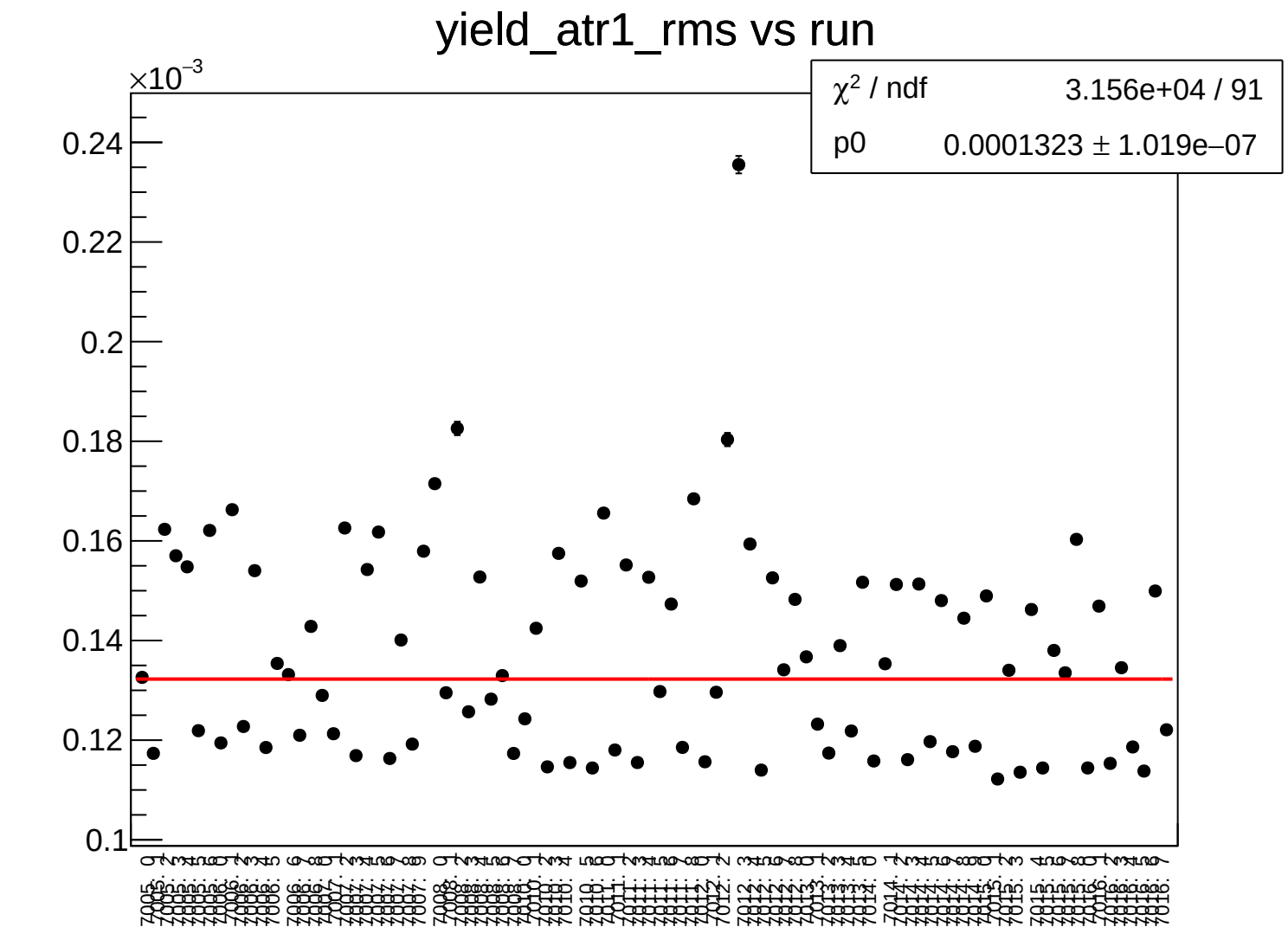

yield_atl2_mean vs run
χ² / ndf 8.423e+04 / 91
p0 0.02591± 3.294e−07
0.0264
0.0262
0.026
0.0258
0.0256
0.0254
pull
Entries 92
Mean 73.74
Std Dev 24.11
60
40
20
0
−20
−40
−60

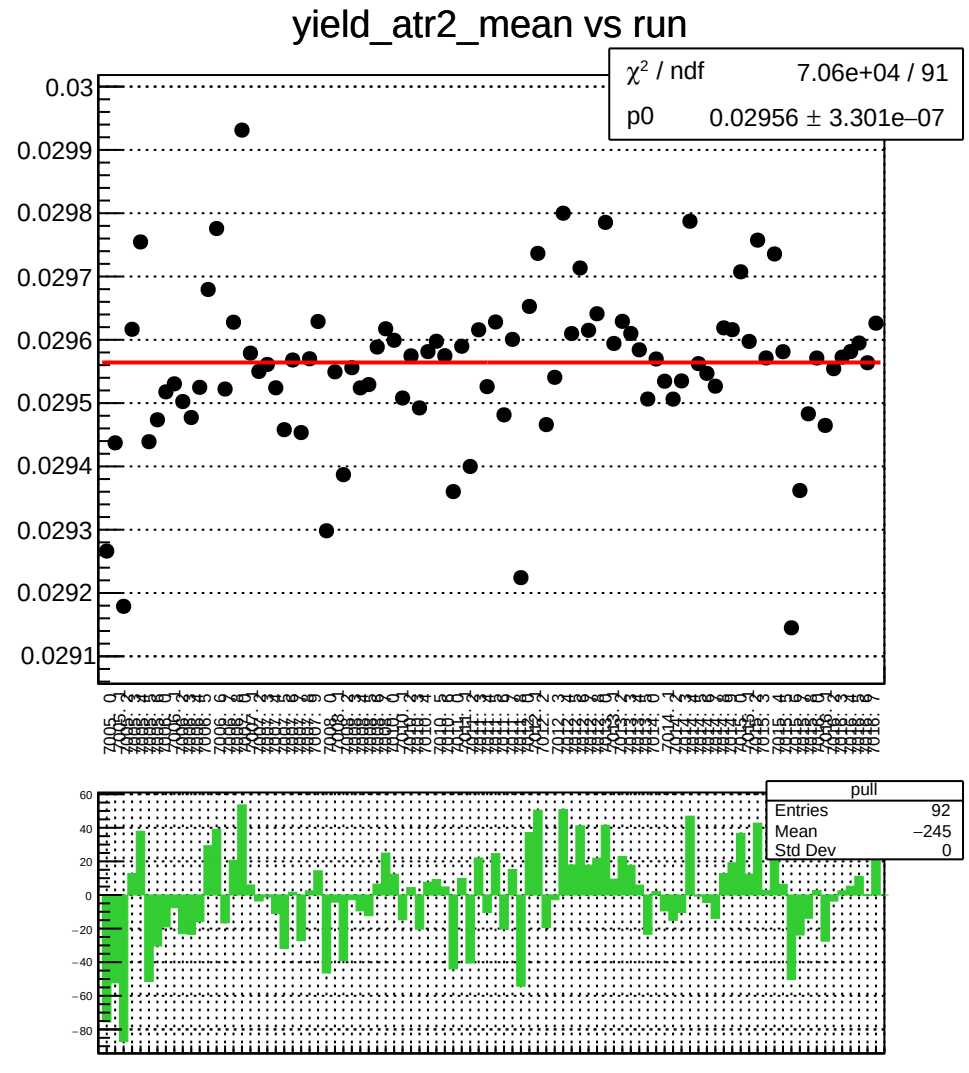

pull1D
Entries 92
Mean 1.283
Std Dev 5.16
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

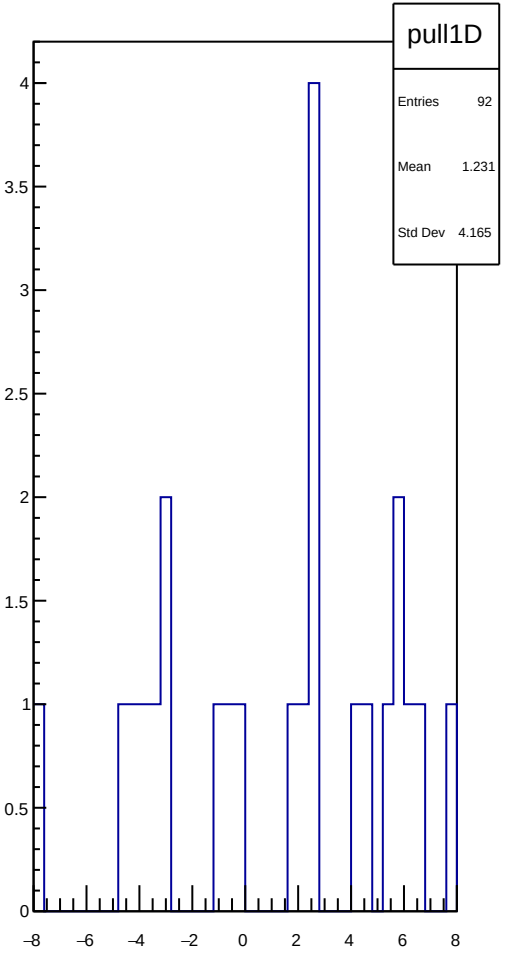

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.375e+05 / 91
p0 0.0002926 ± 2.329e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

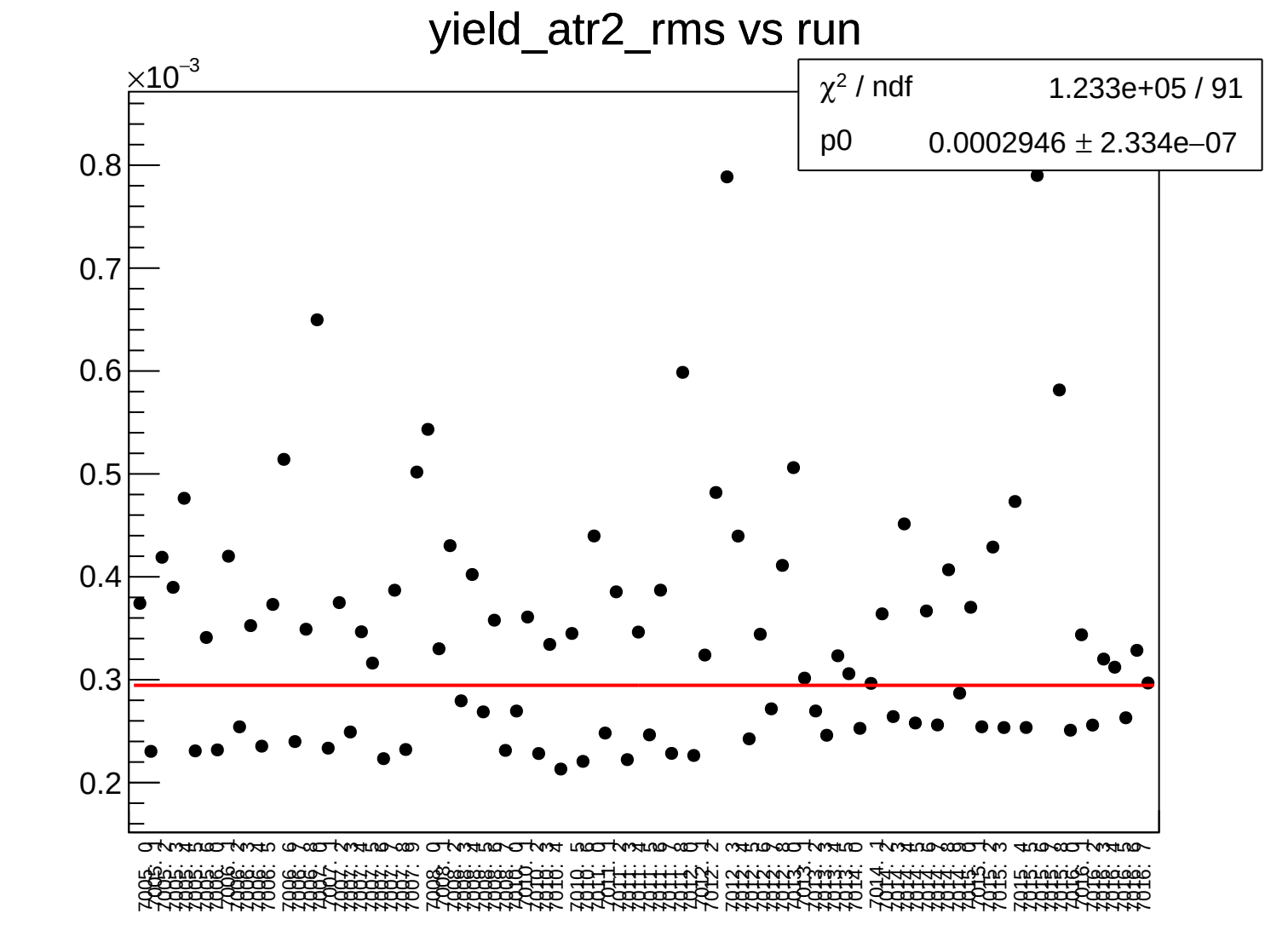

yield_atr1_mean vs run
χ² / ndf 9.147e+04 / 91
p0 0.03948 ± 1.441e−07
0.0396
0.03955
0.0395
0.03945
0.0394
0.03935
pull
Entries 92
Mean 77.28
Std Dev 0
80
60
40
20
0
−20
−40
−60

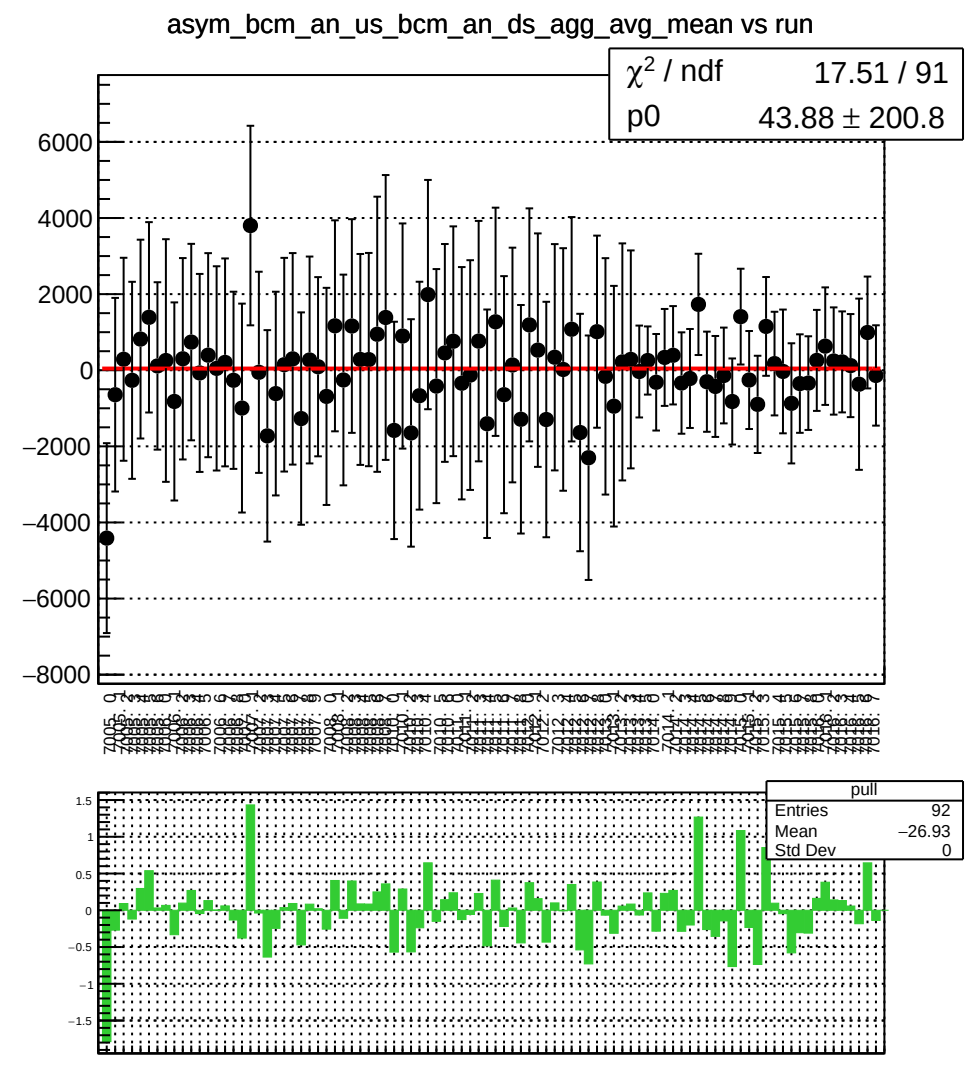

pull1D
Entries 92
Mean −0.245
Std Dev 5.207
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

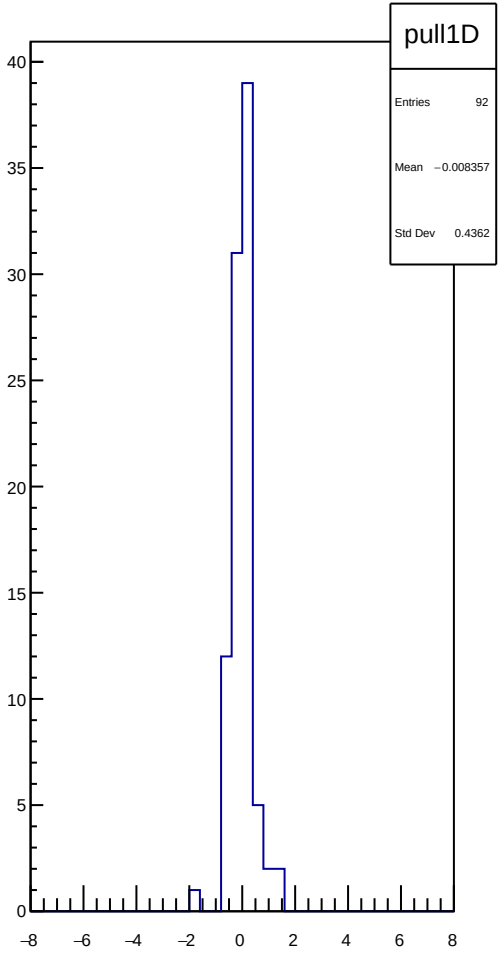

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.156e+04 / 91
p0 0.0001323 ± 1.019e−07
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1

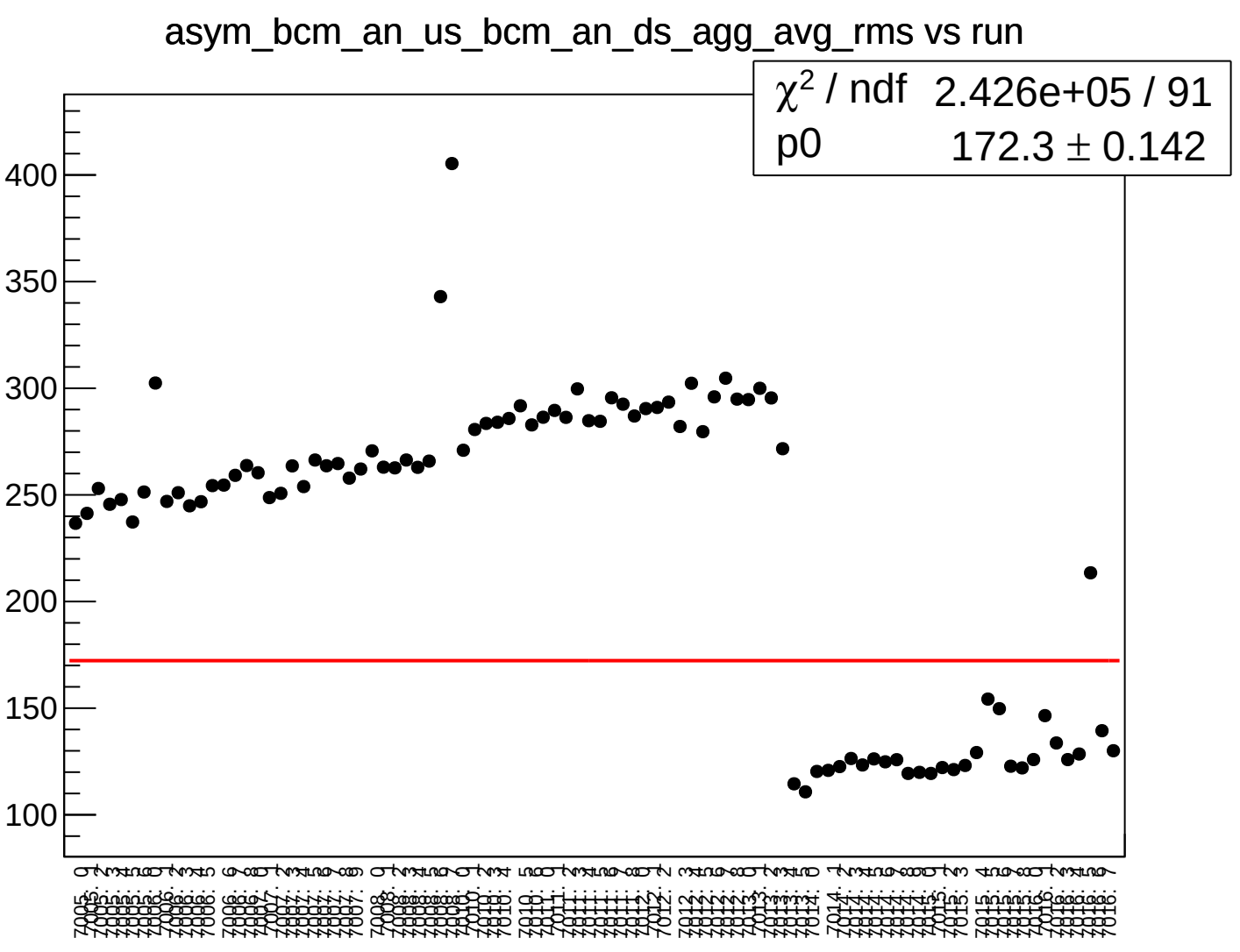

yield_atr2_mean vs run
χ² / ndf 7.06e+04 / 91
p0 0.02956 ± 3.301e−07
0.03
0.0299
0.0298
0.0297
0.0296
0.0295
0.0294
0.0293
0.0292
0.0291
pull
Entries 92
Mean −245
Std Dev 0
60
40
20
0
−20
−40
−60
−80

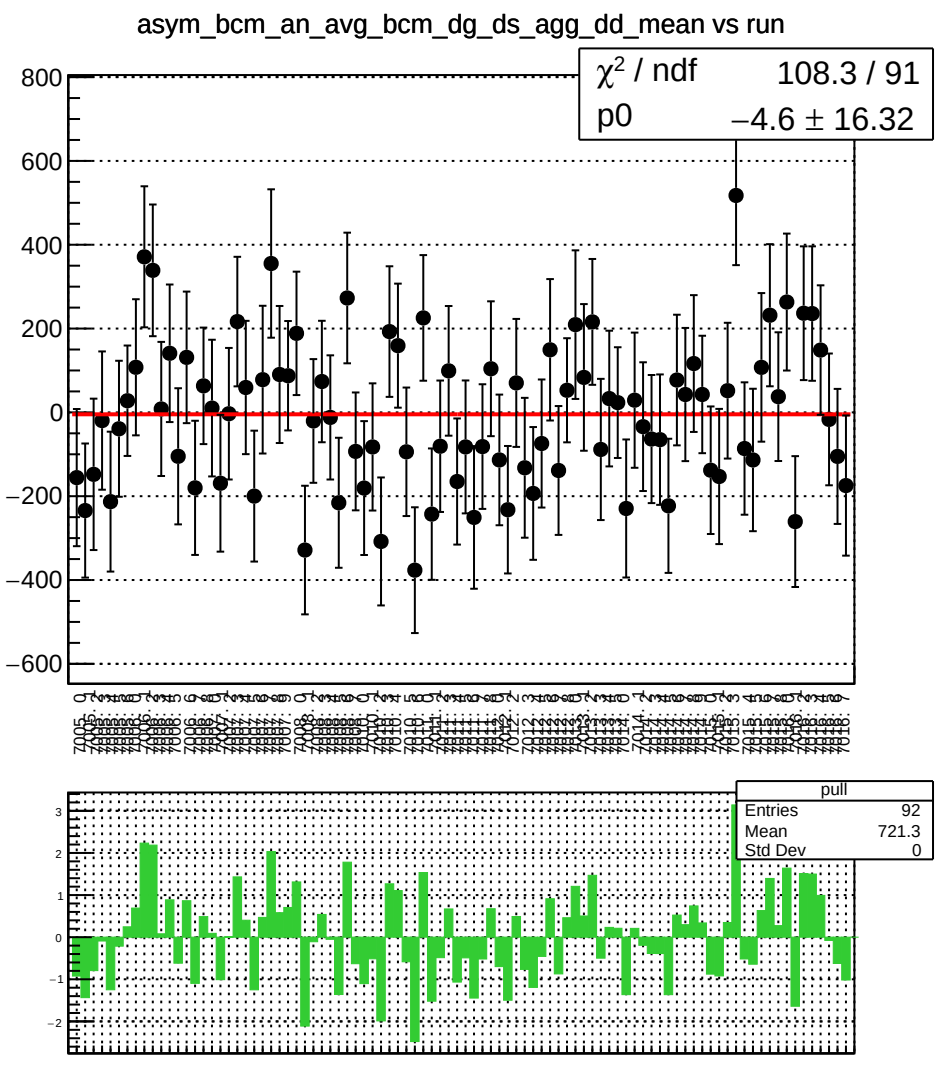

pull1D
Entries 92
Mean 1.231
Std Dev 4.165
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

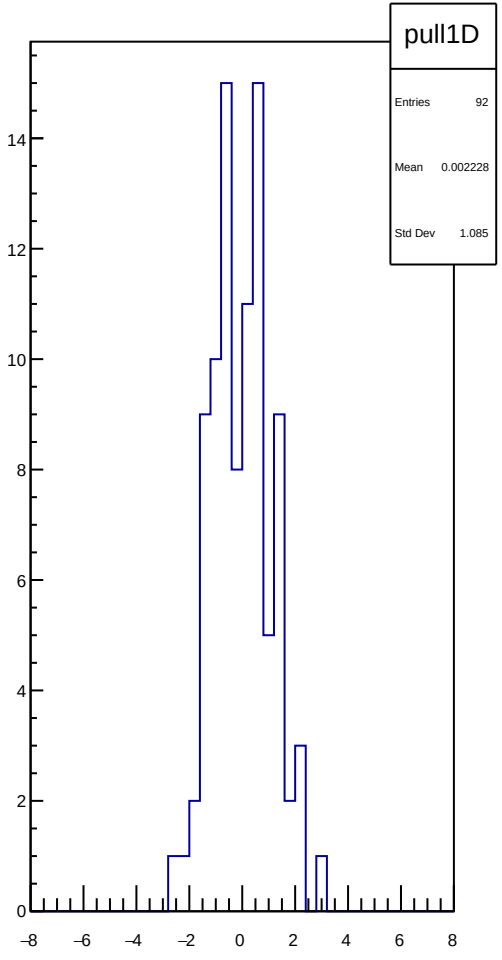

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.233e+05 / 91
p0 0.0002946 ± 2.334e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

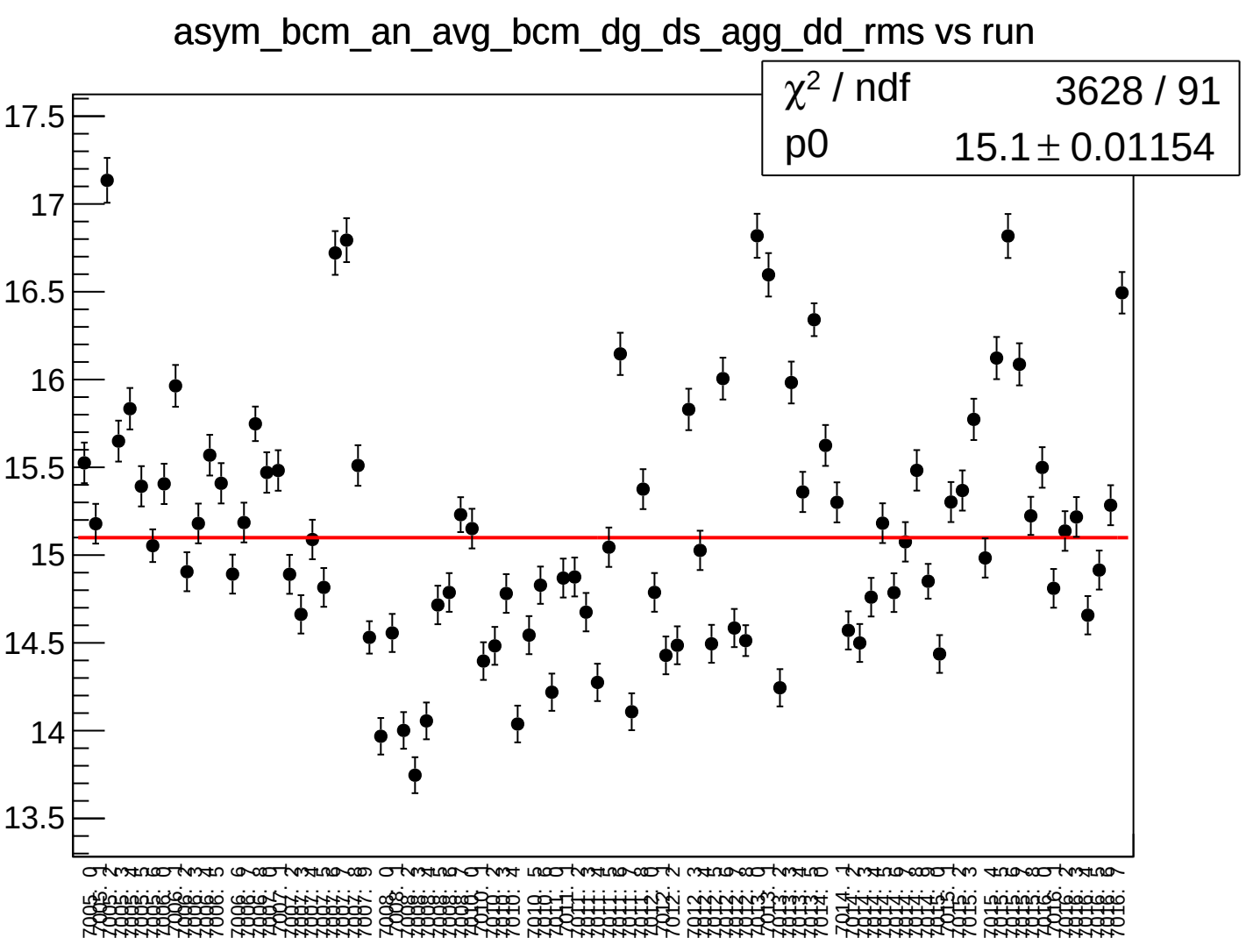

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.51 / 91
p0 43.88 ± 200.8
pull
Entries 92
Mean −26.93
Std Dev 0

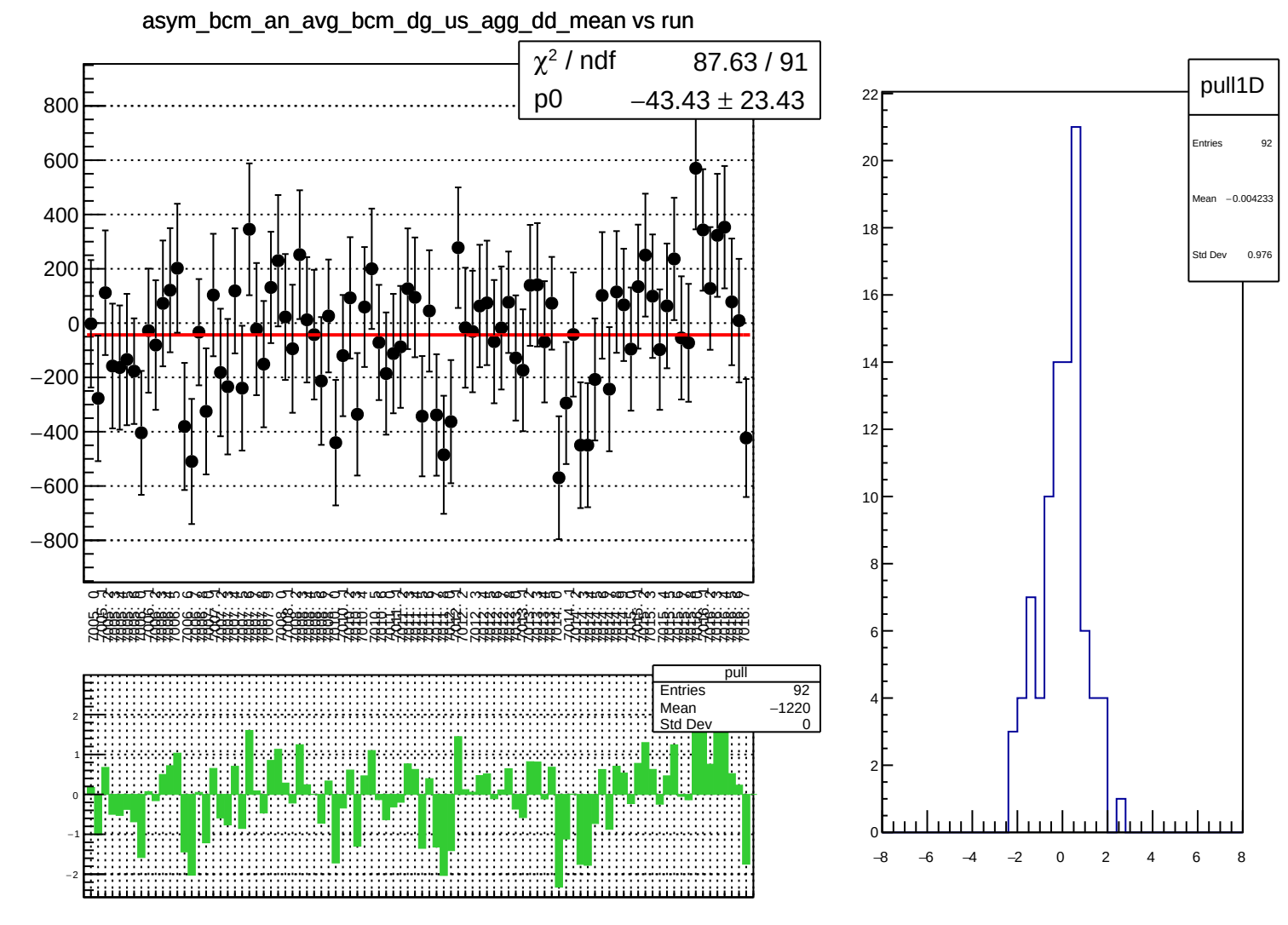

pull1D
Entries 92
Mean −0.008357
Std Dev 0.4362

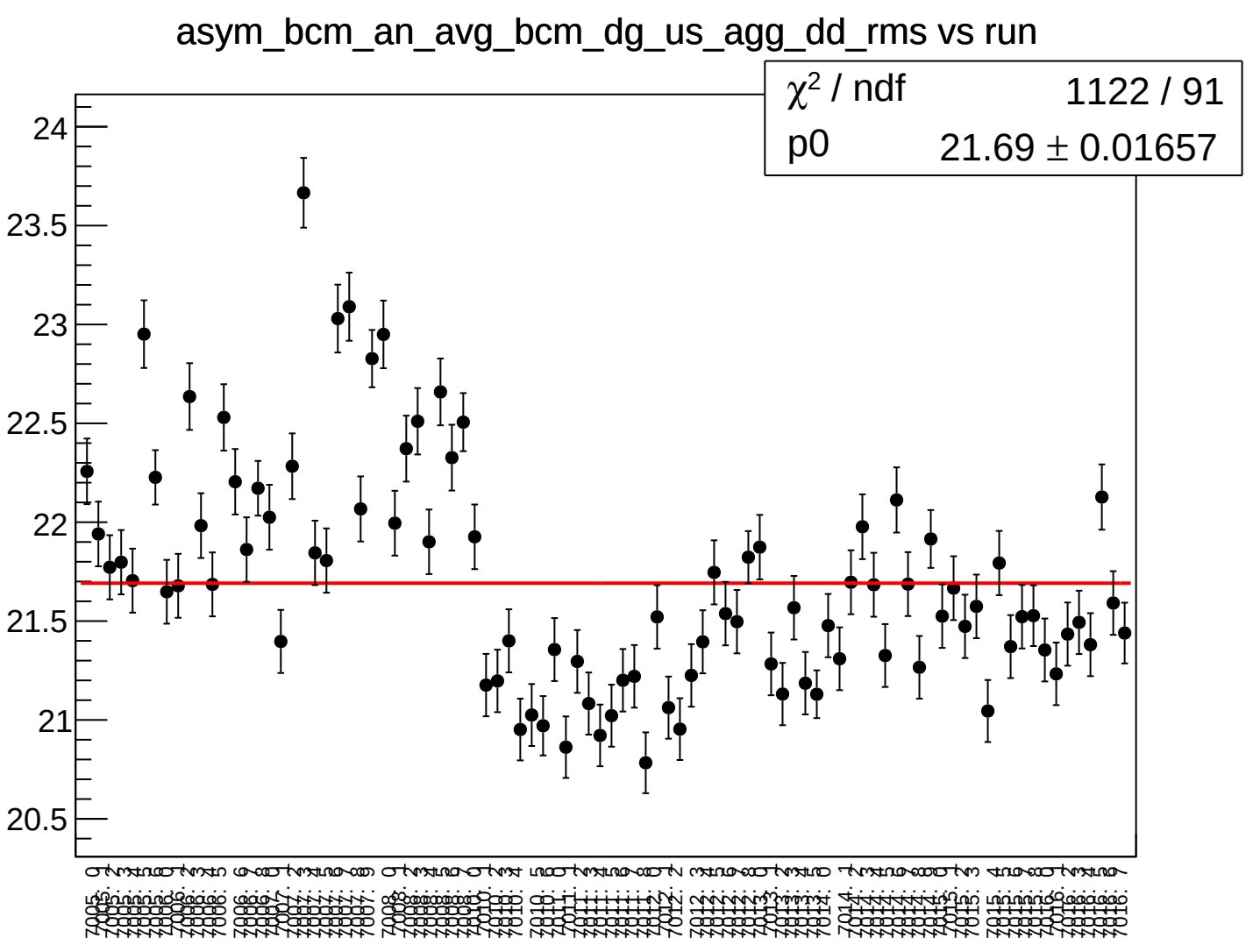

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.426e+05 / 91
p0 172.3 ± 0.142
400
350
300
250
200
150
100

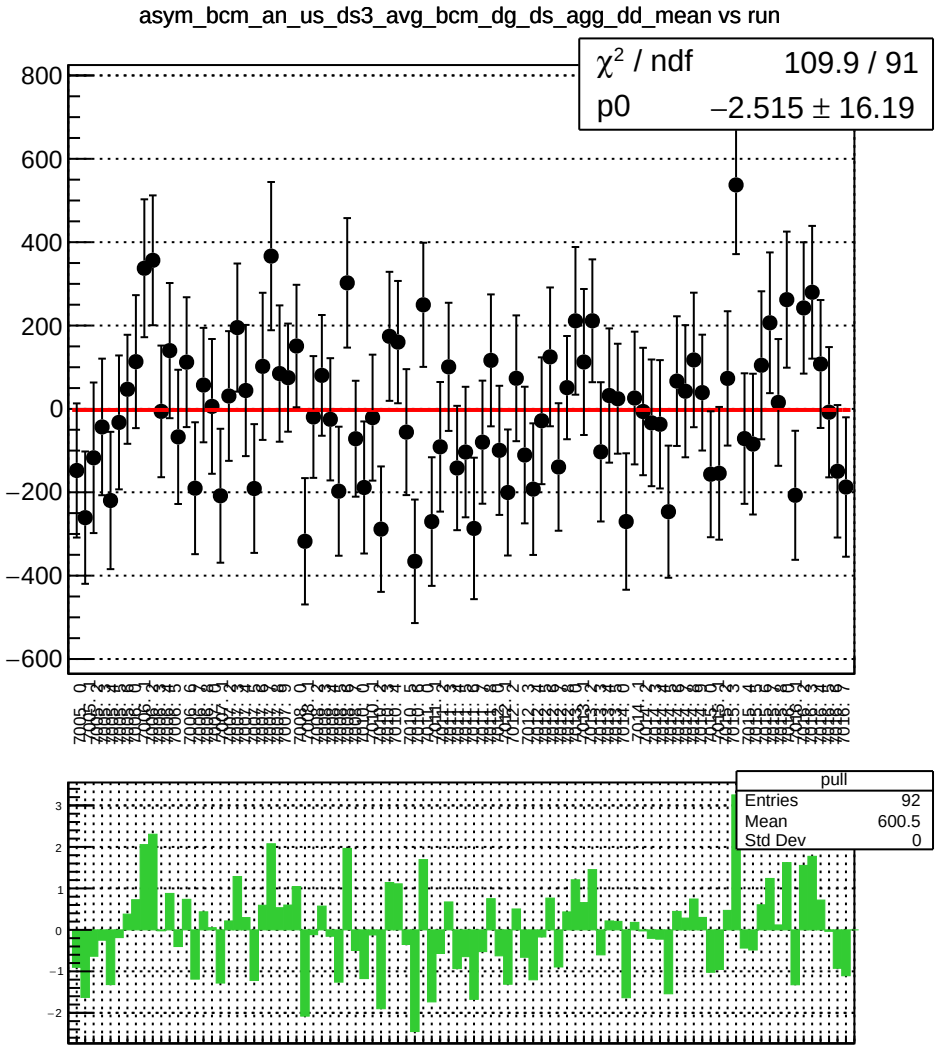

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 108.3 / 91
p0 −4.6 ± 16.32
pull
Entries 92
Mean 721.3
Std Dev 0

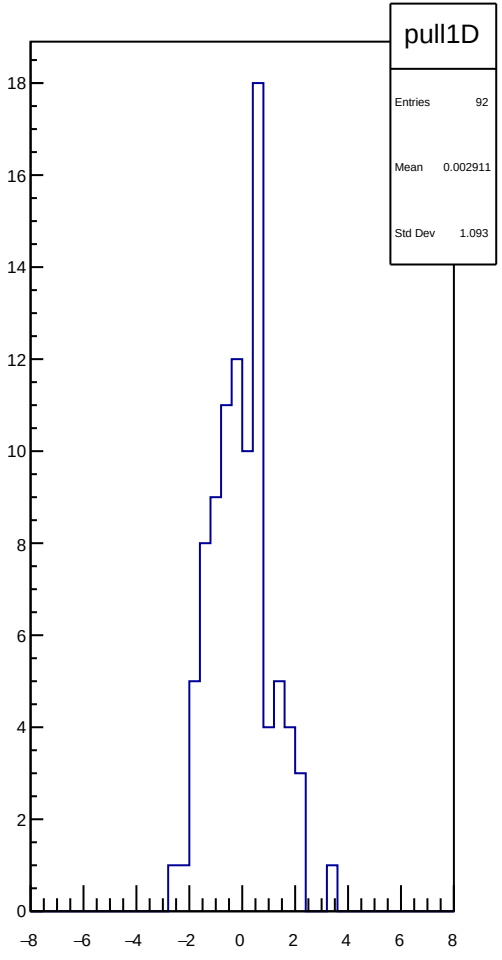

pull1D
Entries 92
Mean 0.002228
Std Dev 1.085

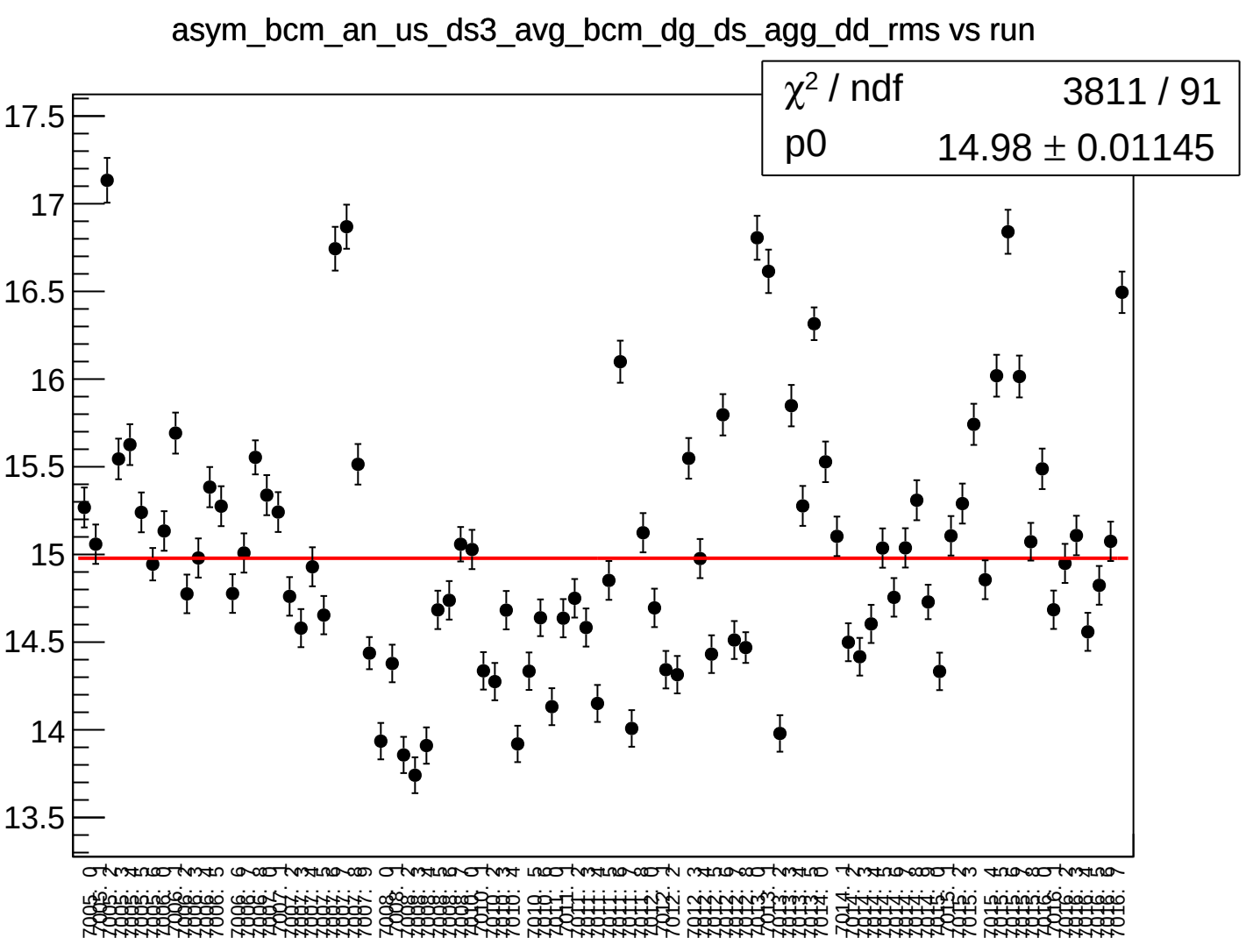

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3628 / 91
p0 15.1 ± 0.01154
17.5
17
16.5
16
15.5
15
14.5
14
13.5

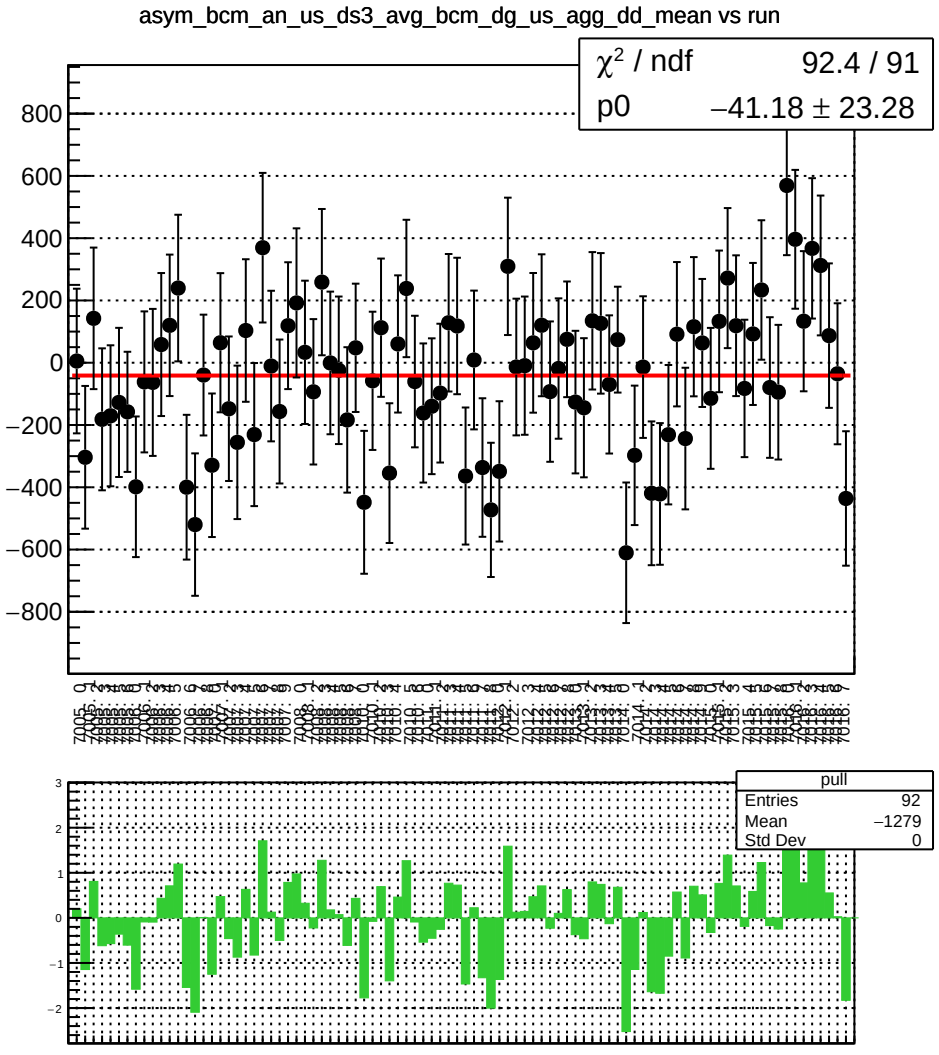

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 87.63 / 91
p0 −43.43 ± 23.43
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 92
Mean −1220
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004233
Std Dev 0.976
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

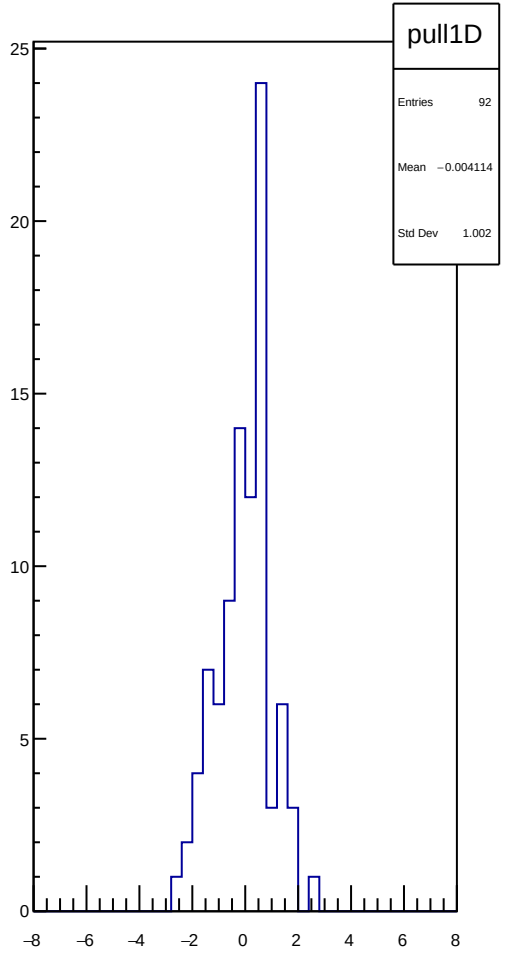

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1122 / 91
p0 21.69 ± 0.01657
24
23.5
23
22.5
22
21.5
21
20.5

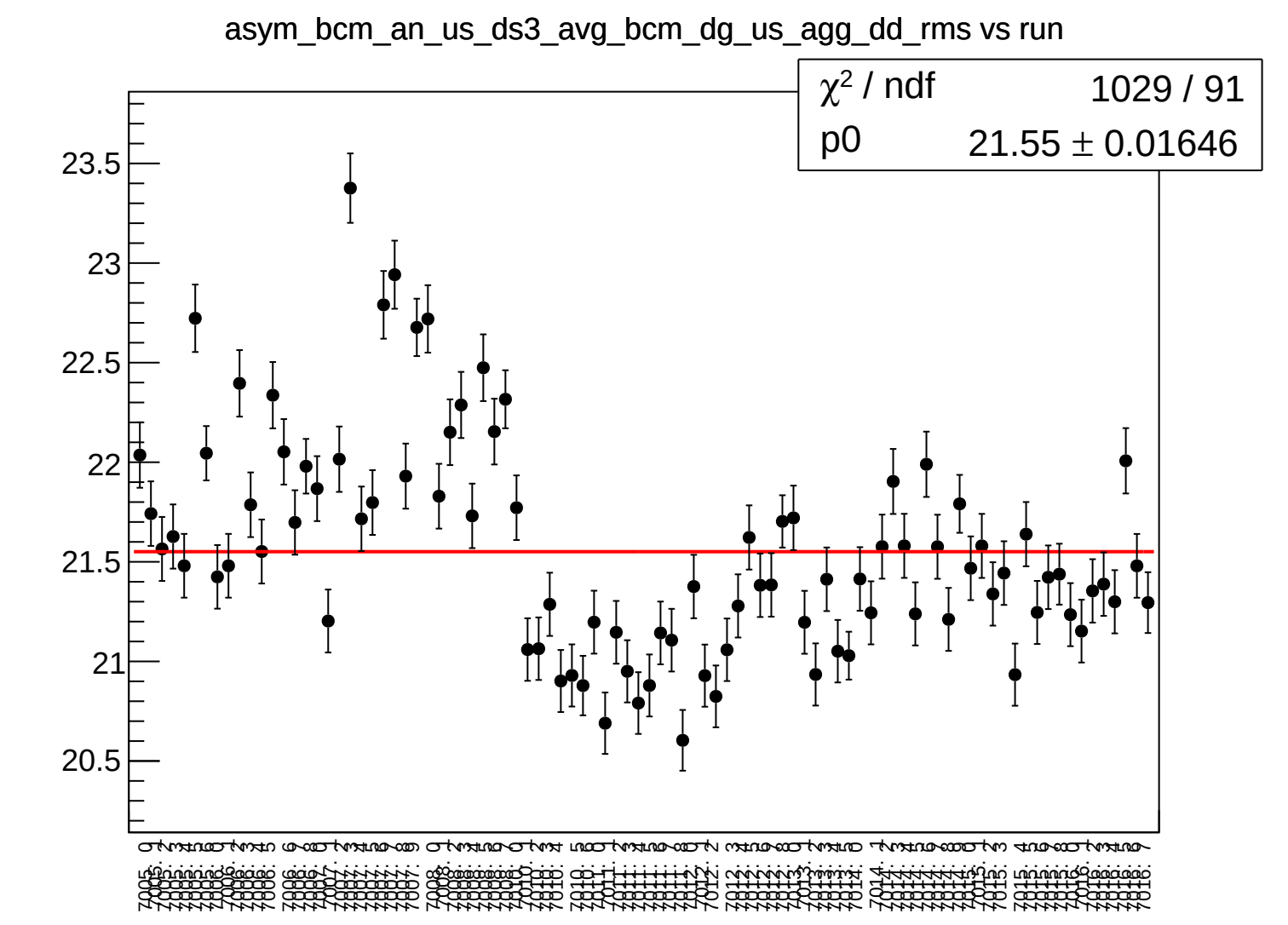

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 109.9 / 91
p0 −2.515 ± 16.19
pull
Entries 92
Mean 600.5
Std Dev 0

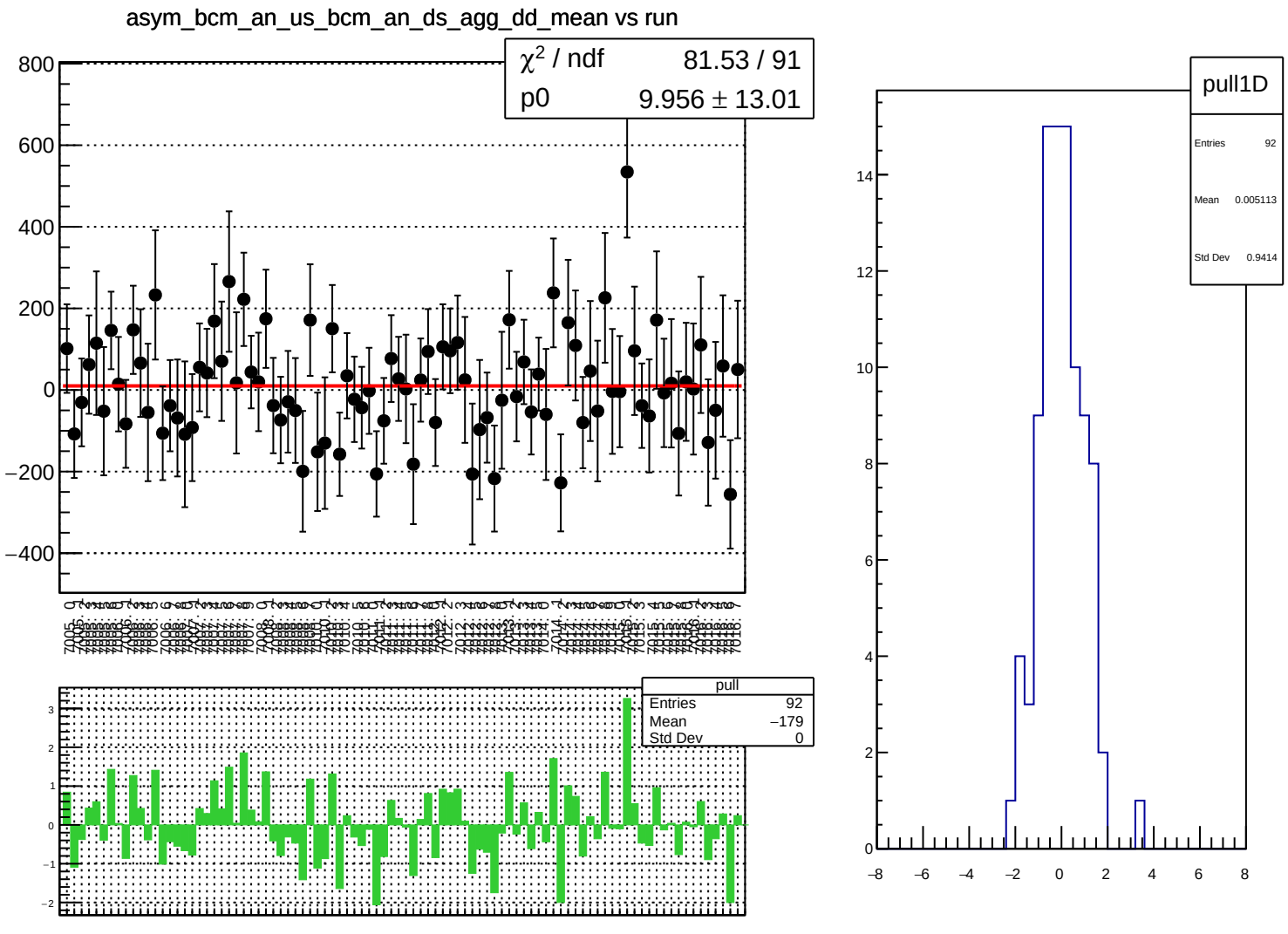

pull1D
Entries 92
Mean 0.002911
Std Dev 1.093

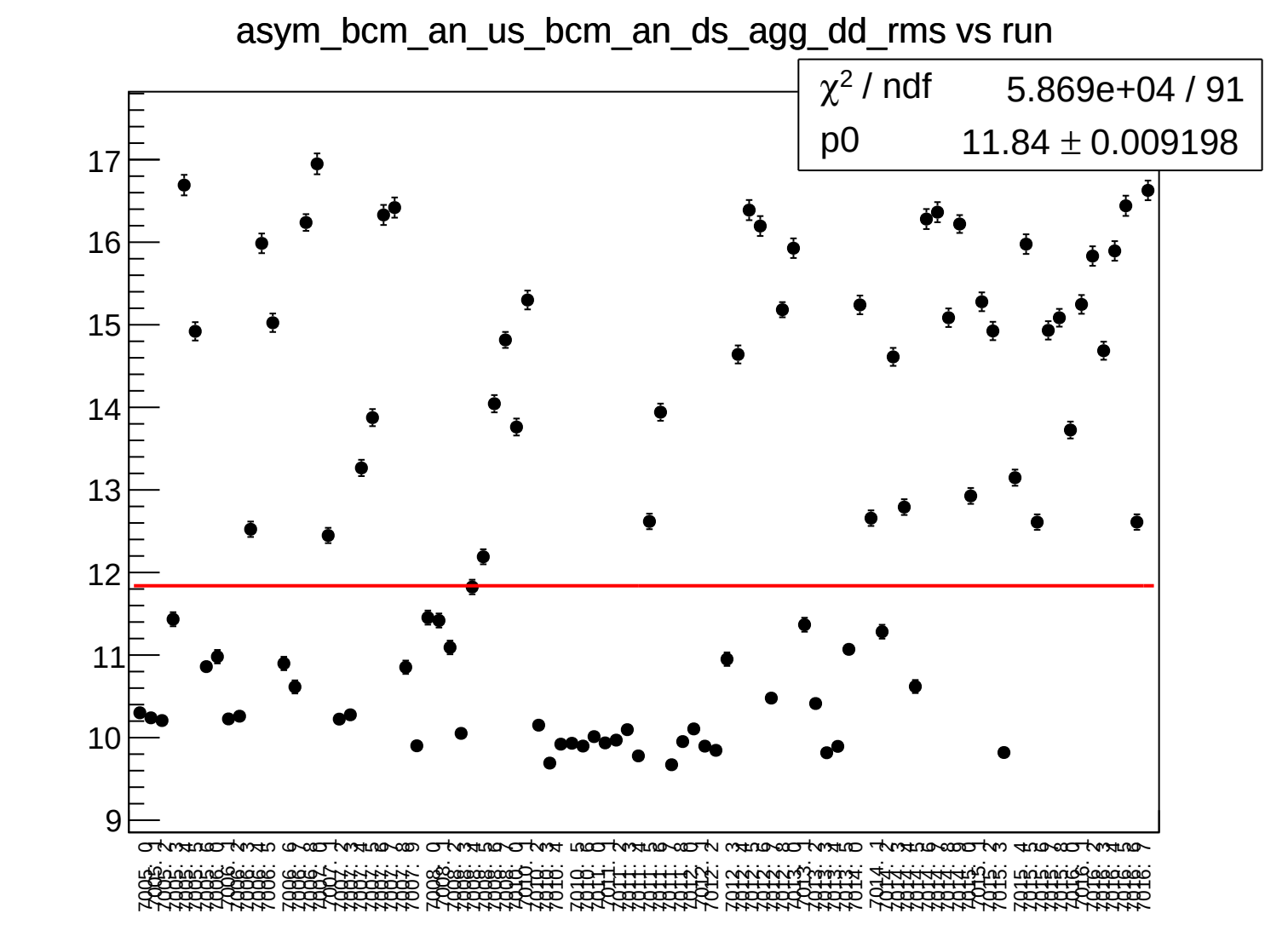

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3811 / 91
p0 14.98 ± 0.01145
17.5
17
16.5
16
15.5
15
14.5
14
13.5

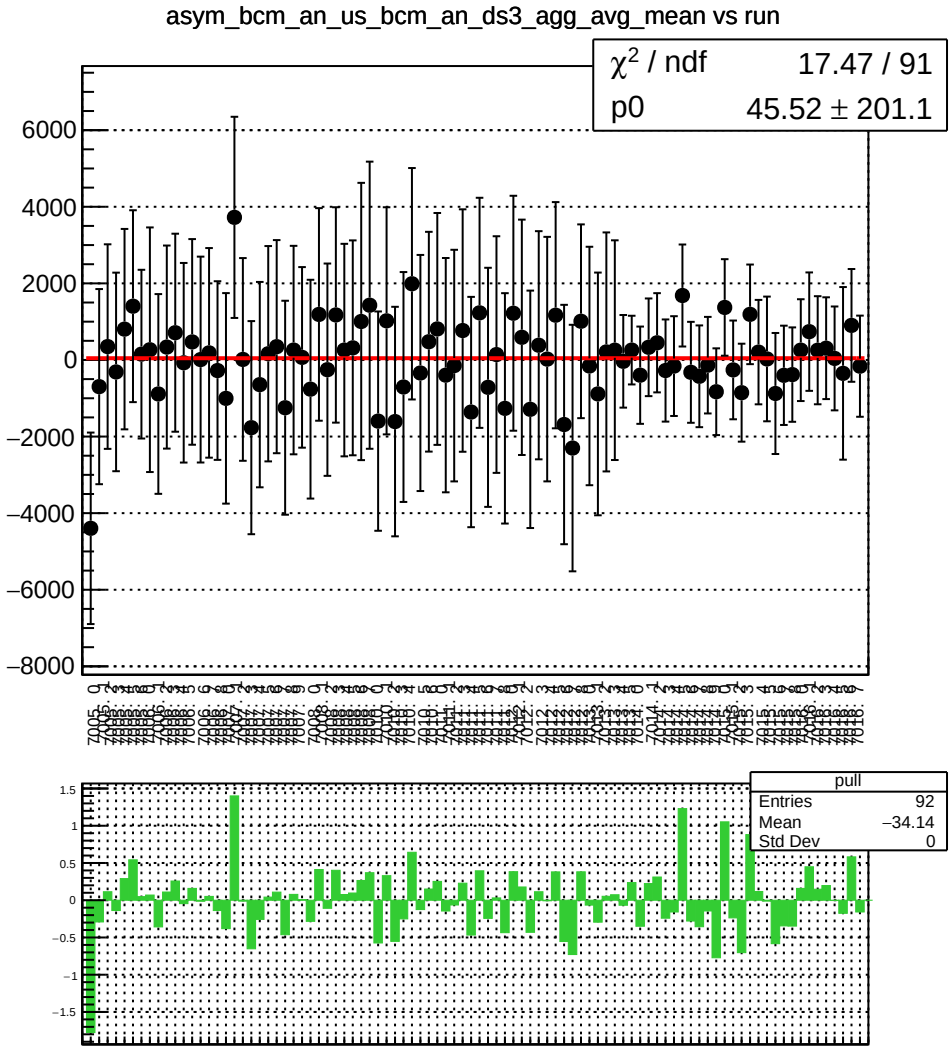

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 92.4 / 91
p0 −41.18 ± 23.28
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 92
Mean −1279
Std Dev 0
3
2
1
0
−1
−2

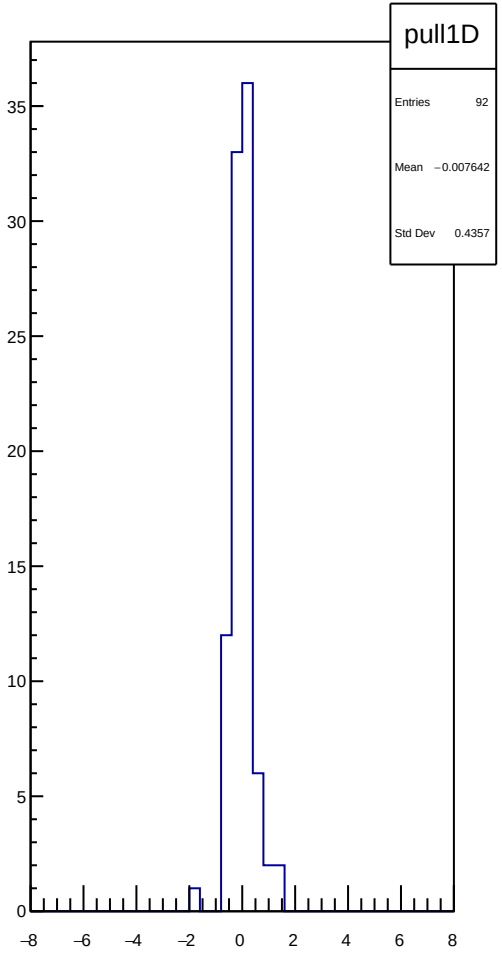

pull1D
Entries 92
Mean −0.004114
Std Dev 1.002
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

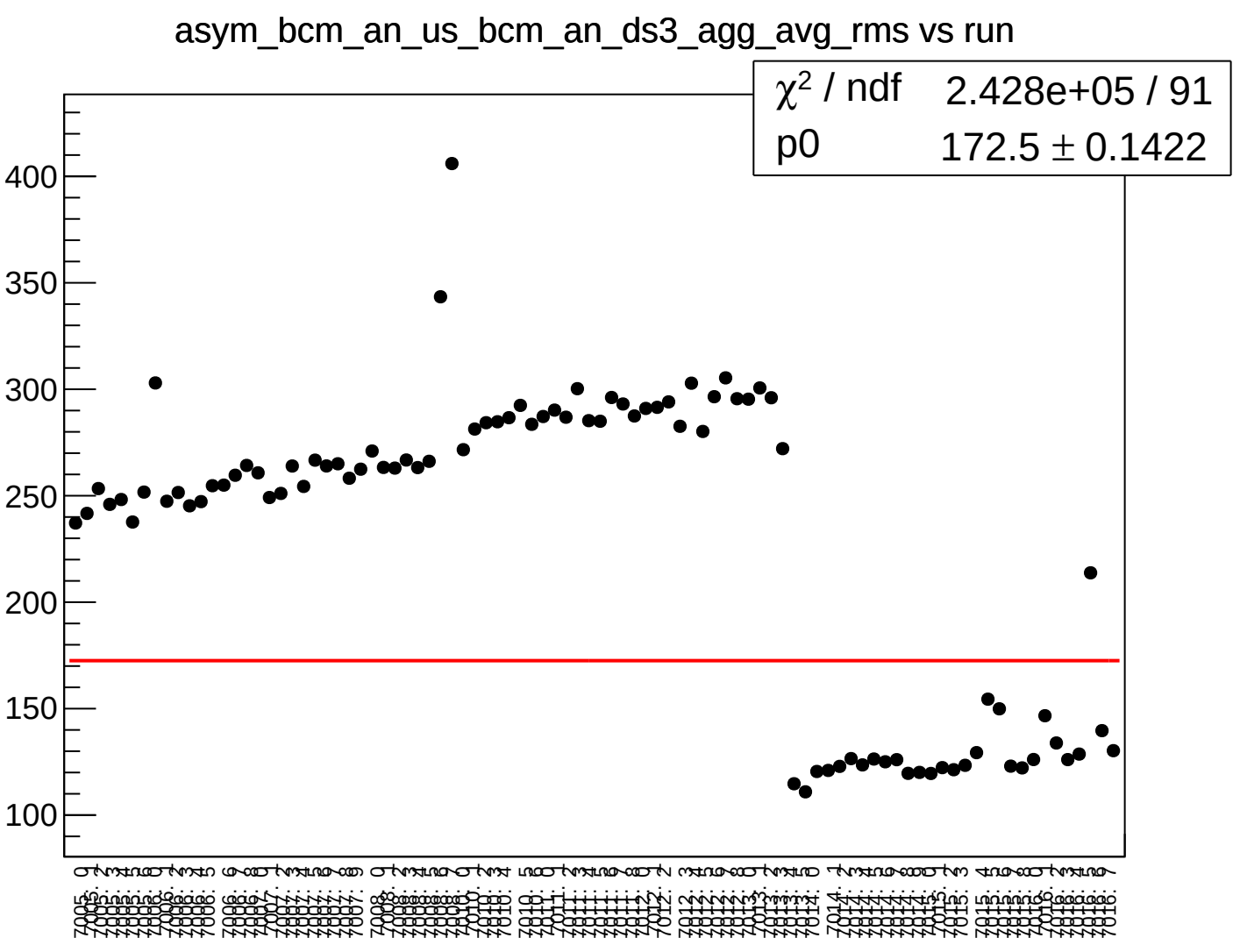

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1029 / 91
p0 21.55 ± 0.01646
23.5
23
22.5
22
21.5
21
20.5

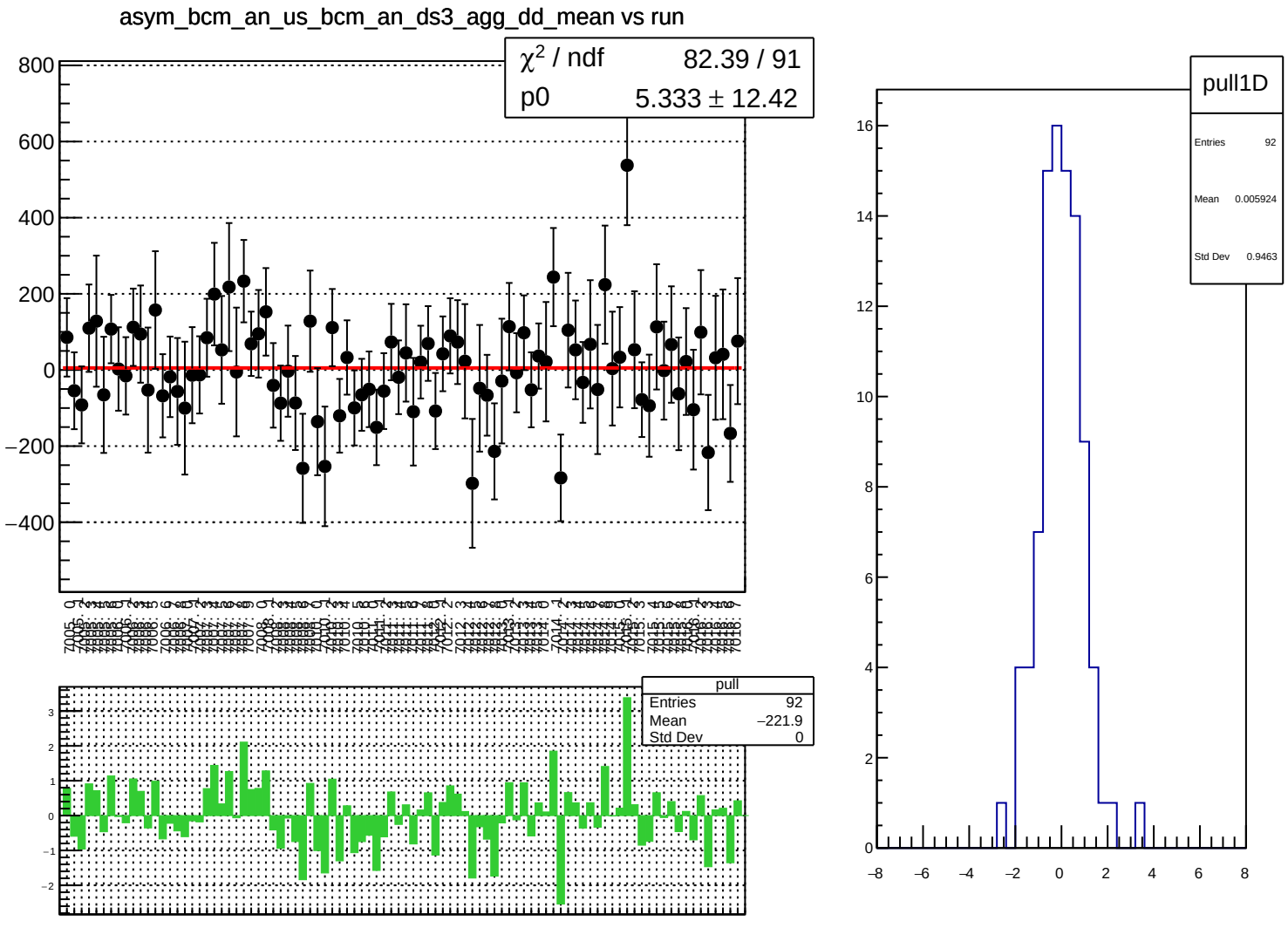

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 81.53 / 91
p0 9.956 ± 13.01
pull
Entries 92
Mean −179
Std Dev 0
pull1D
Entries 92
Mean 0.005113
Std Dev 0.9414

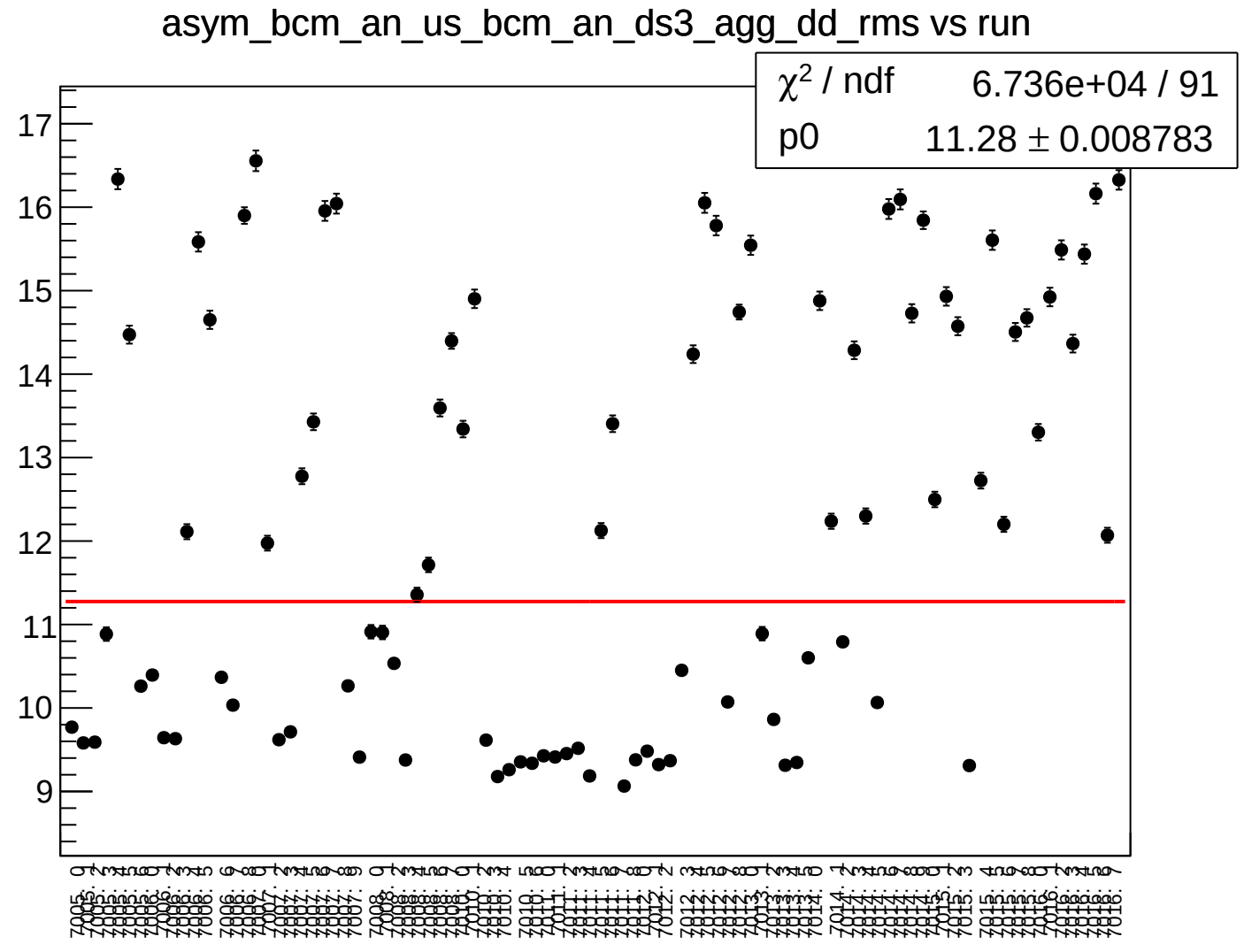

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5.869e+04 / 91
p0 11.84 ± 0.009198
17
16
15
14
13
12
11
10
9

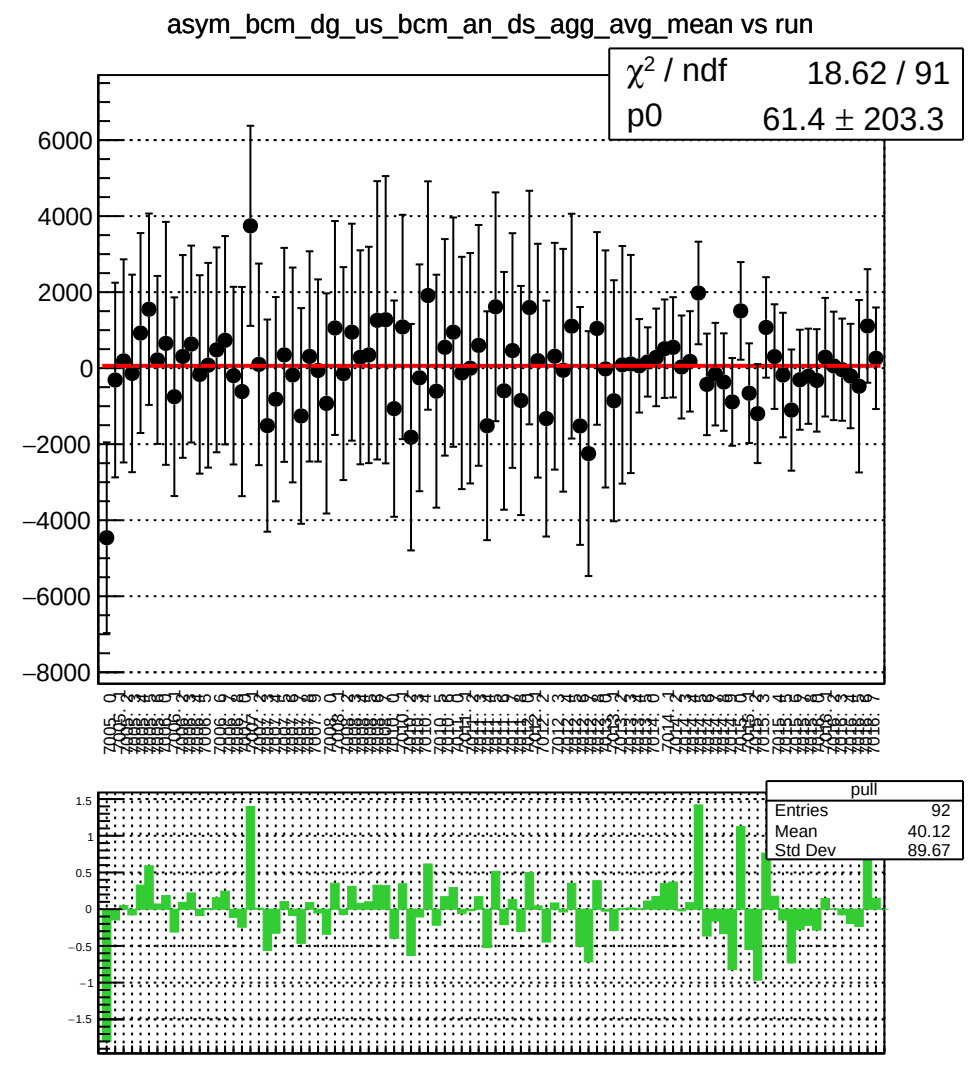

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 17.47 / 91
p0 45.52 ± 201.1
pull
Entries 92
Mean −34.14
Std Dev 0

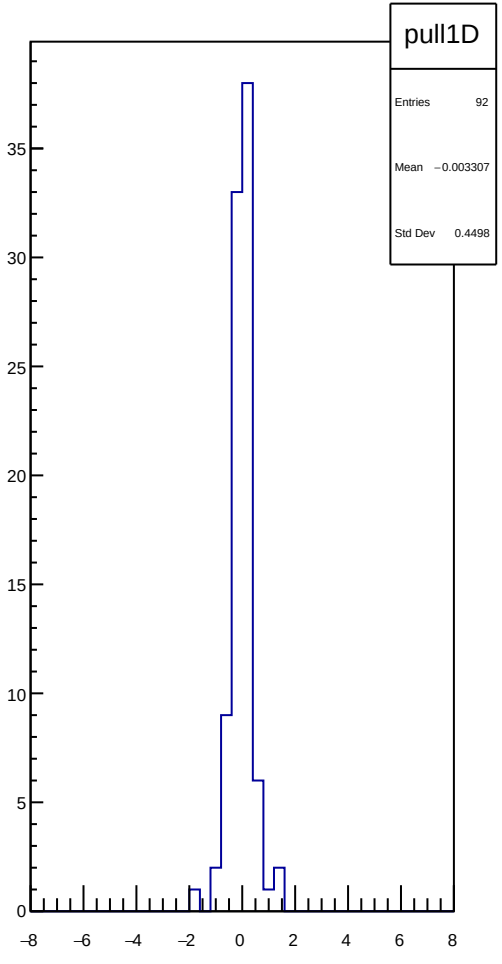

pull1D
Entries 92
Mean −0.007642
Std Dev 0.4357

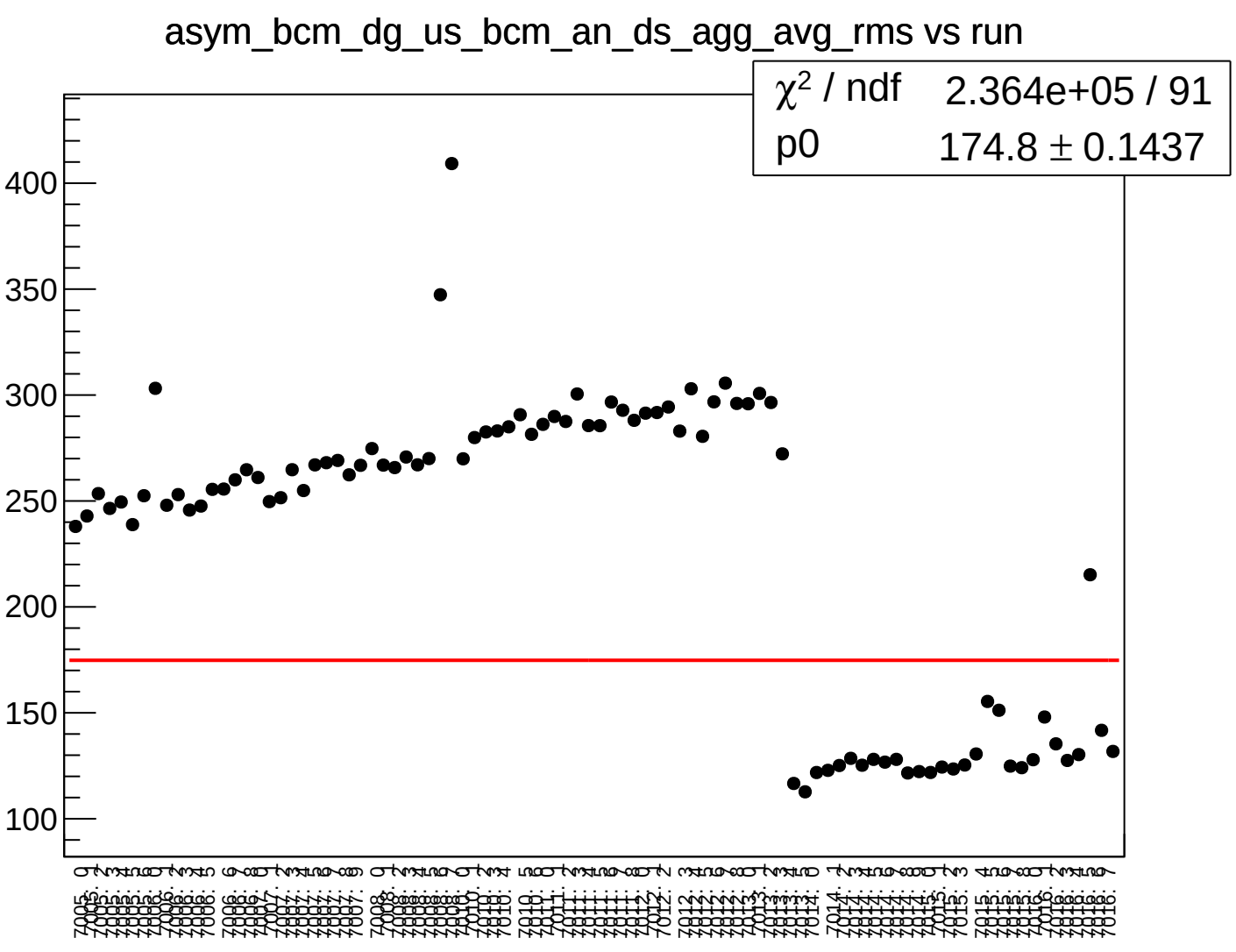

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.428e+05 / 91
p0 172.5 ± 0.1422
400
350
300
250
200
150
100

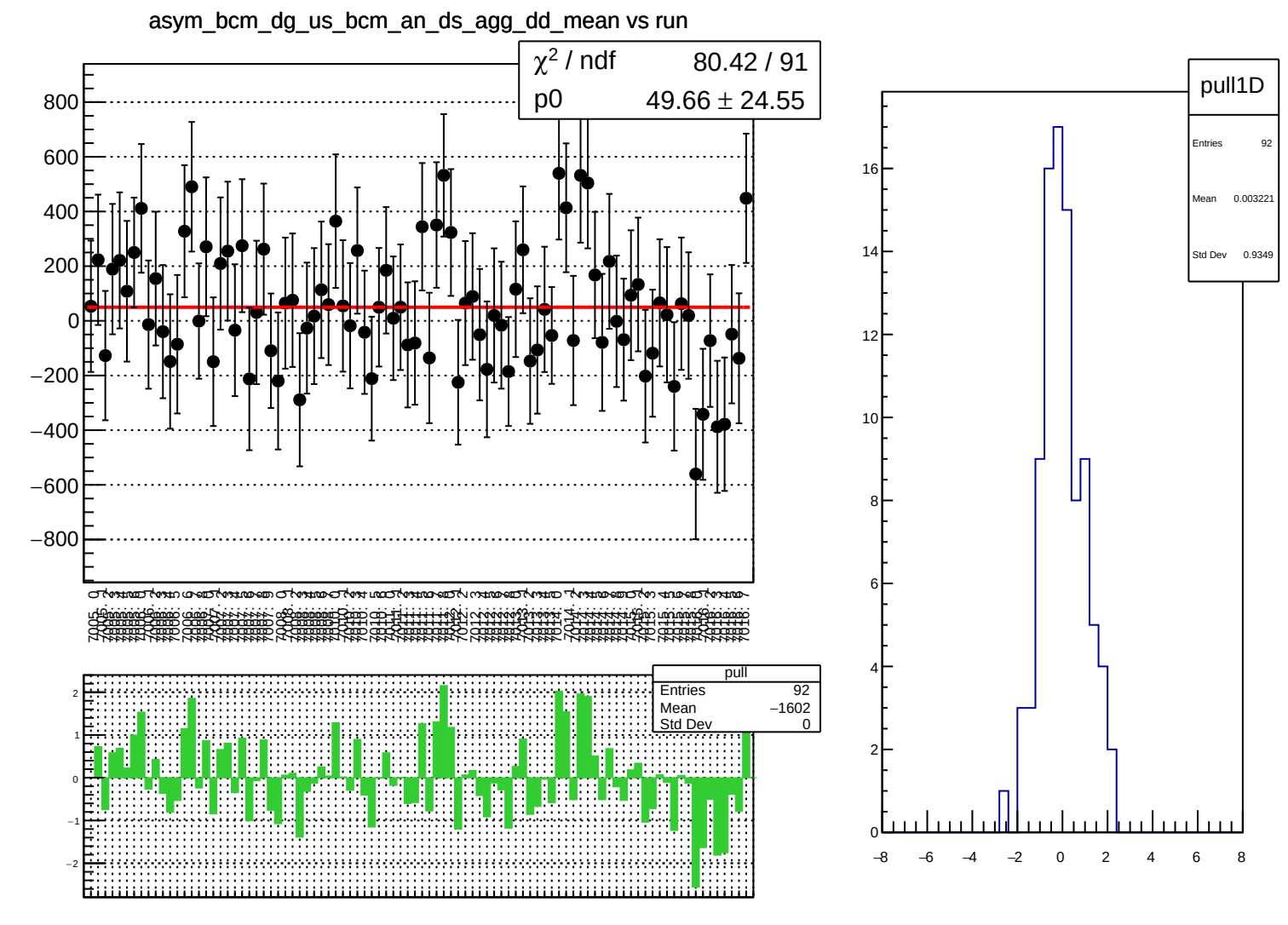

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 82.39 / 91
p0 5.333 ± 12.42
800
600
400
200
0
−200
−400
pull
Entries 92
Mean −221.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.005924
Std Dev 0.9463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

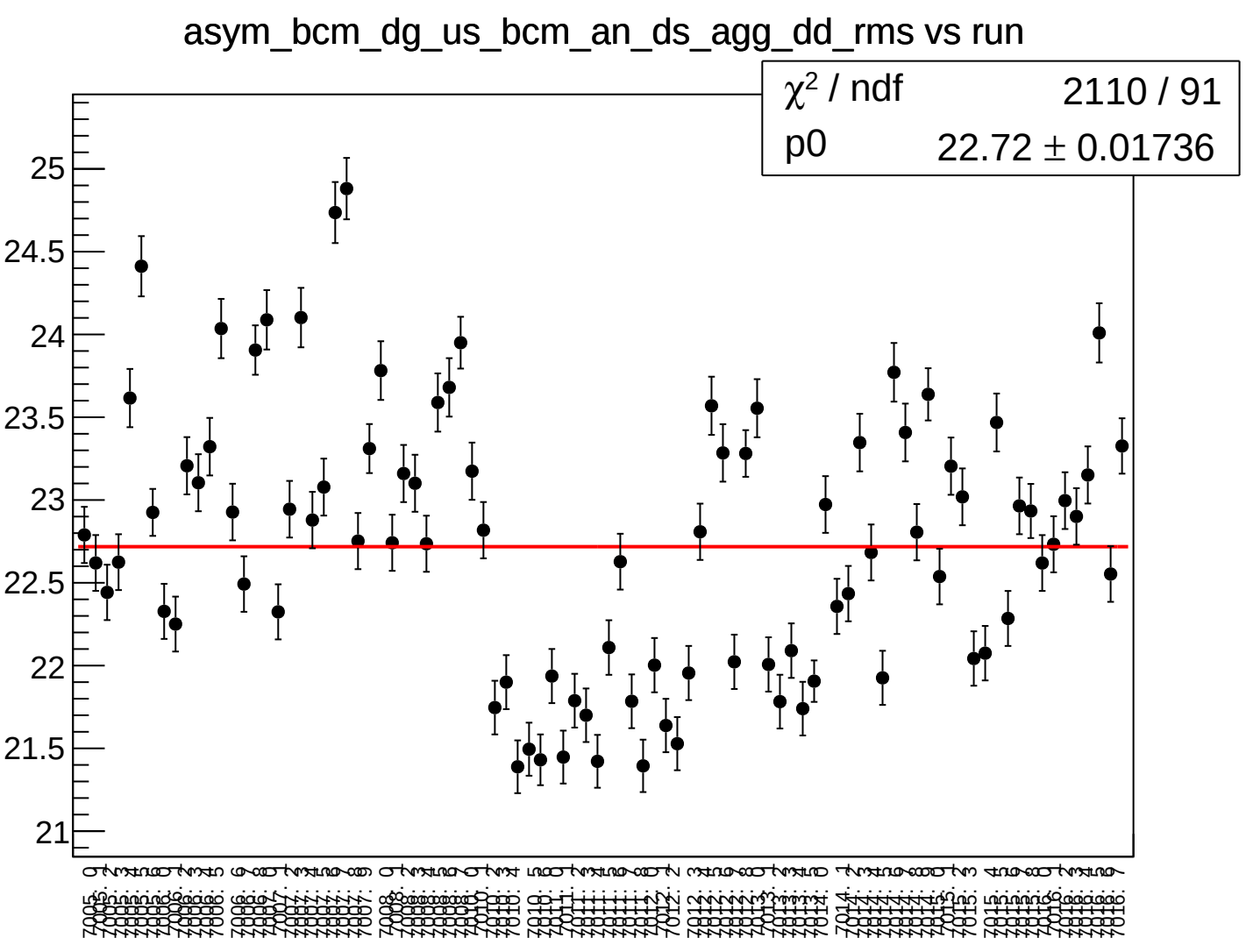

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 6.736e+04 / 91
p0 11.28 ± 0.008783
17
16
15
14
13
12
11
10
9

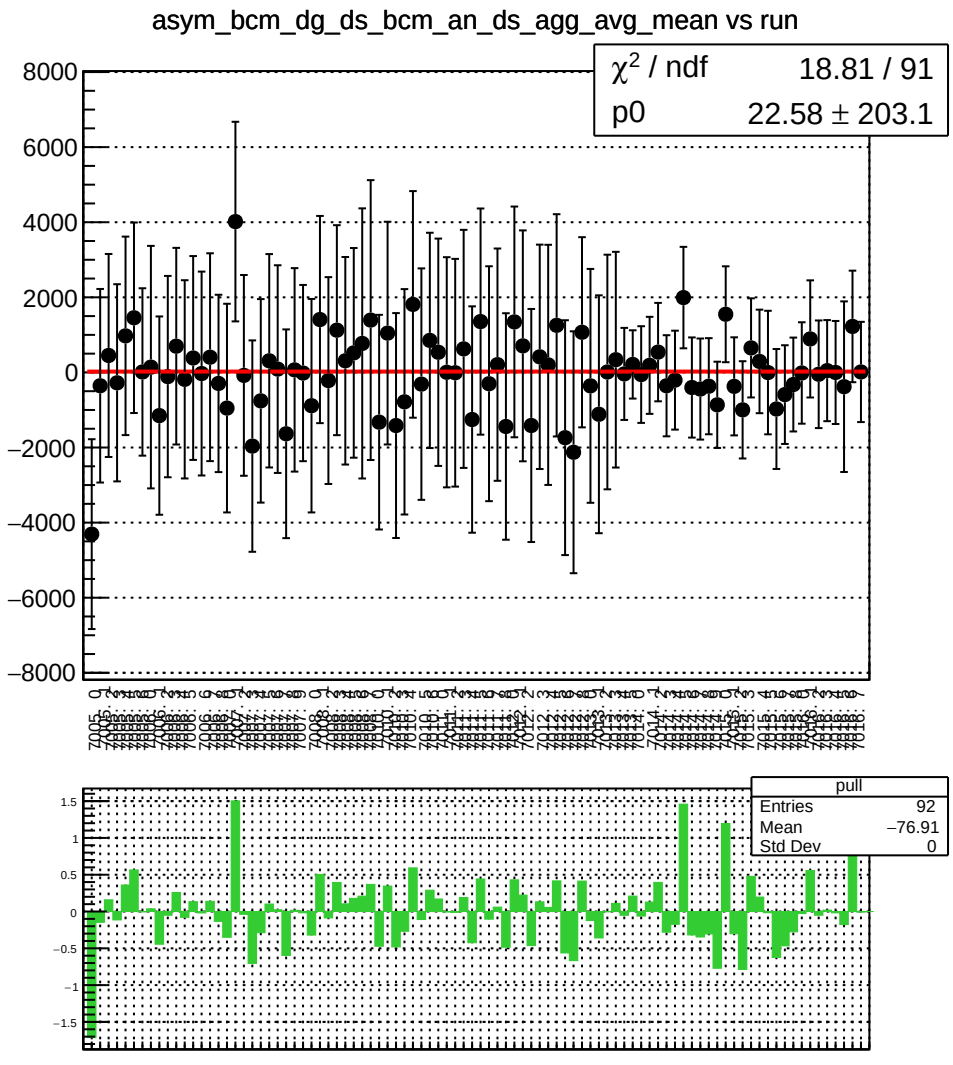

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.62 / 91
p0 61.4 ± 203.3
pull
Entries 92
Mean 40.12
Std Dev 89.67

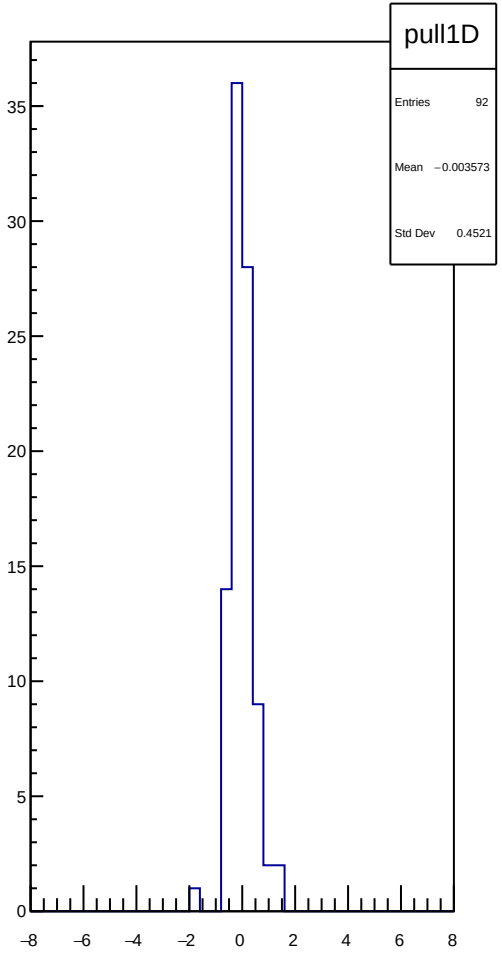

pull1D
Entries 92
Mean −0.003307
Std Dev 0.4498

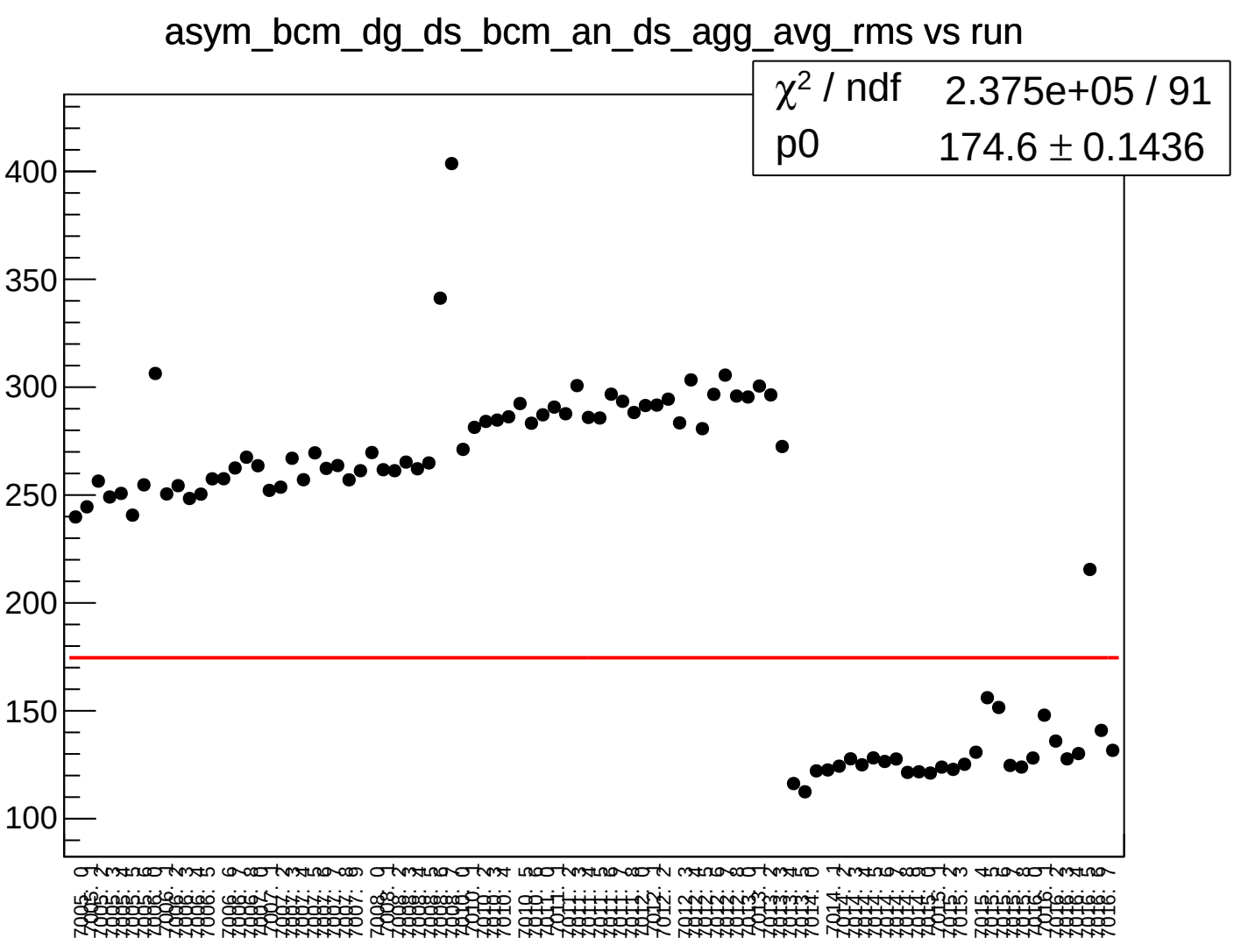

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.364e+05 / 91
p0 174.8 ± 0.1437
400
350
300
250
200
150
100

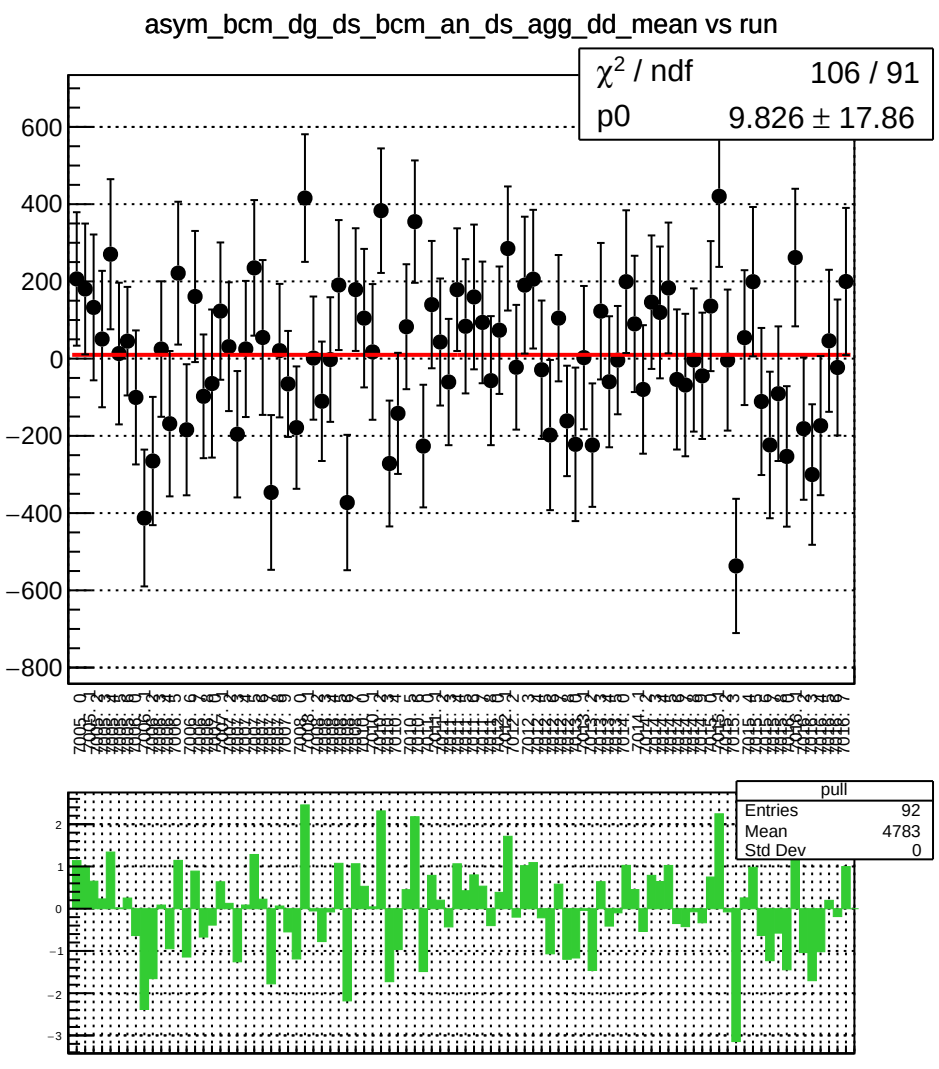

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 80.42 / 91
p0 49.66 ± 24.55
pull
Entries 92
Mean −1602
Std Dev 0
pull1D
Entries 92
Mean 0.003221
Std Dev 0.9349

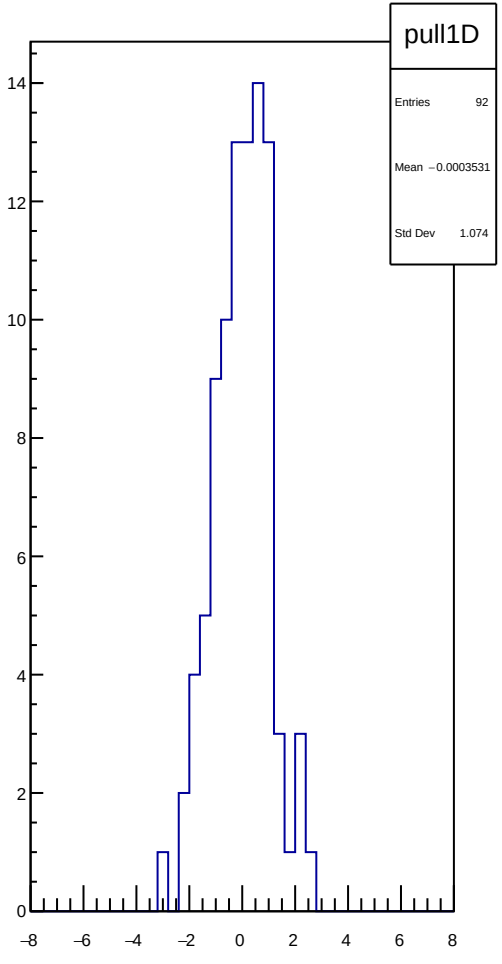

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2110 / 91
p0 22.72 ± 0.01736
25
24.5
24
23.5
23
22.5
22
21.5
21

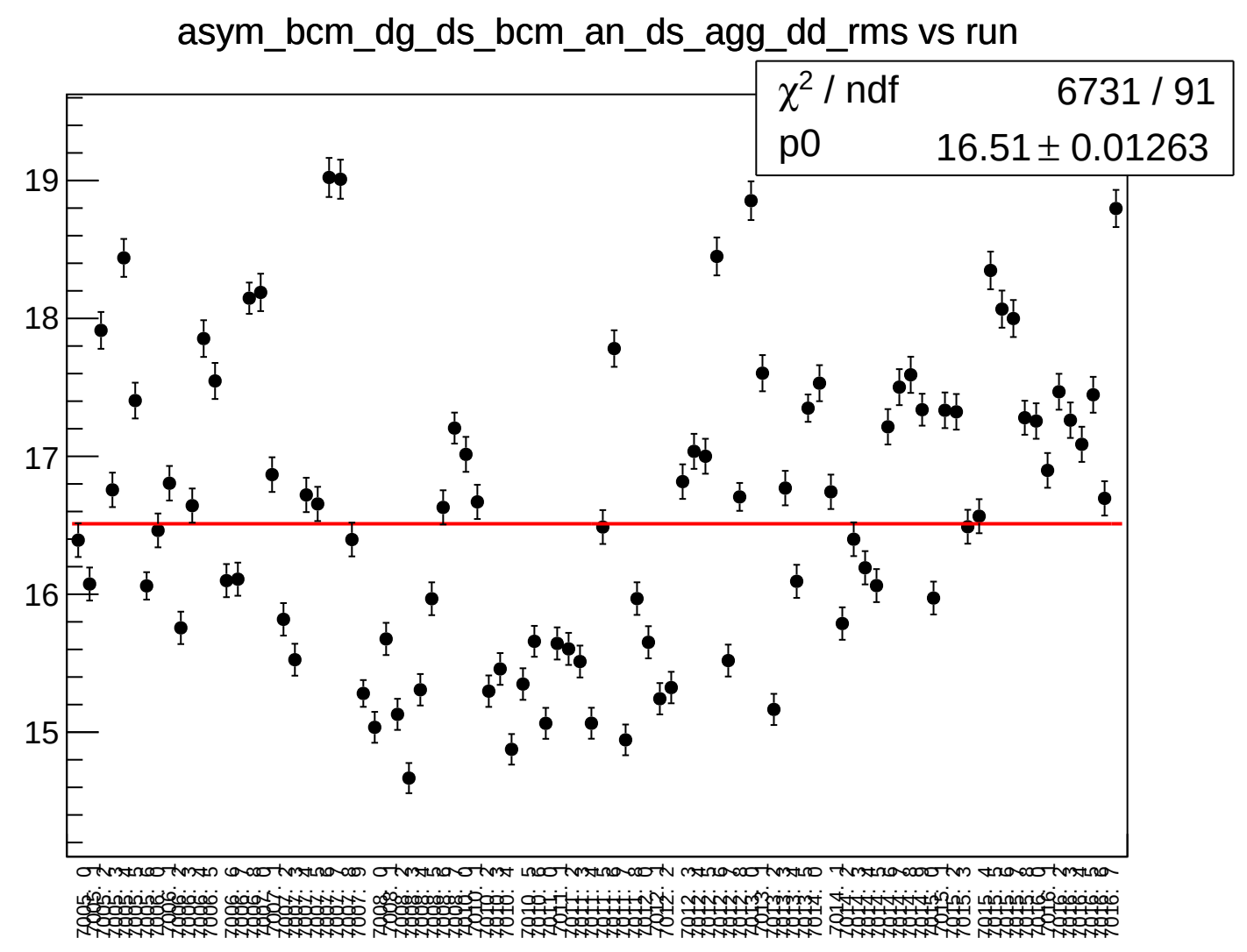

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.81 / 91
p0 22.58 ± 203.1
pull
Entries 92
Mean −76.91
Std Dev 0

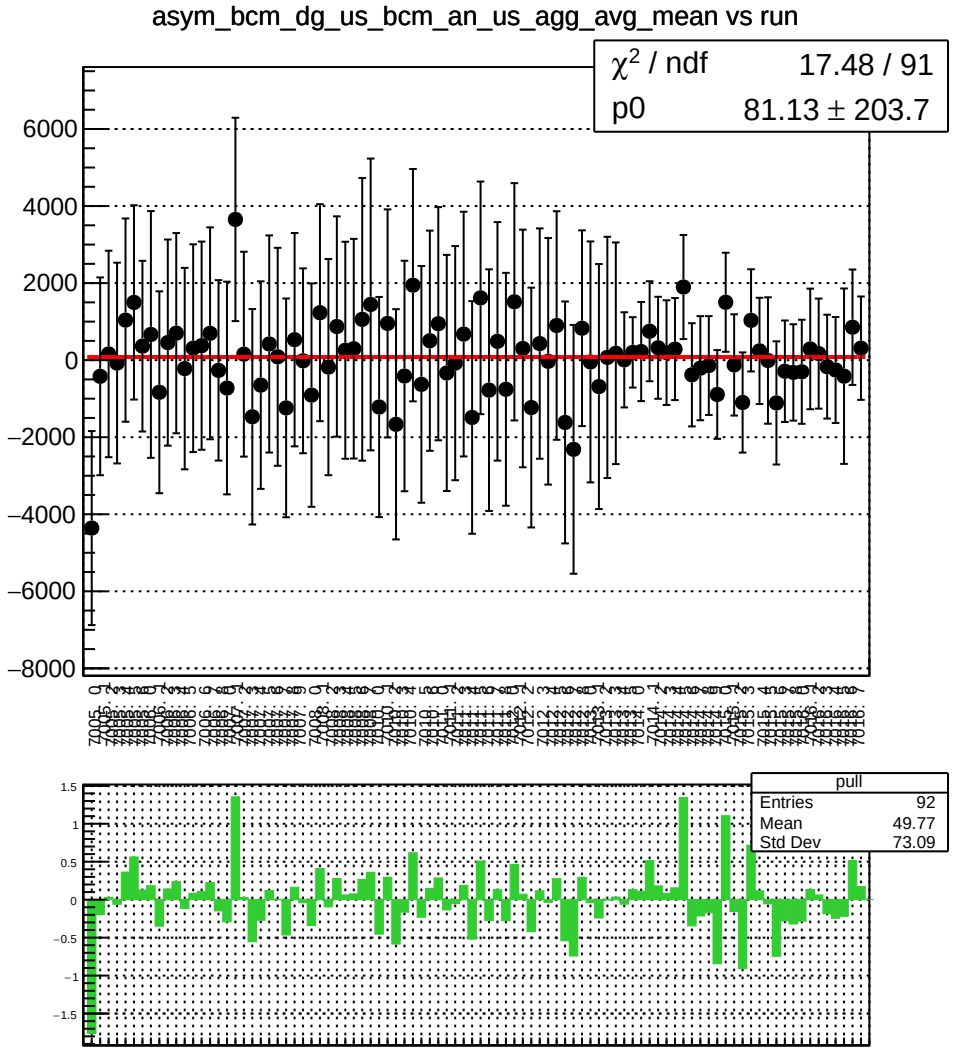

pull1D
Entries 92
Mean −0.003573
Std Dev 0.4521

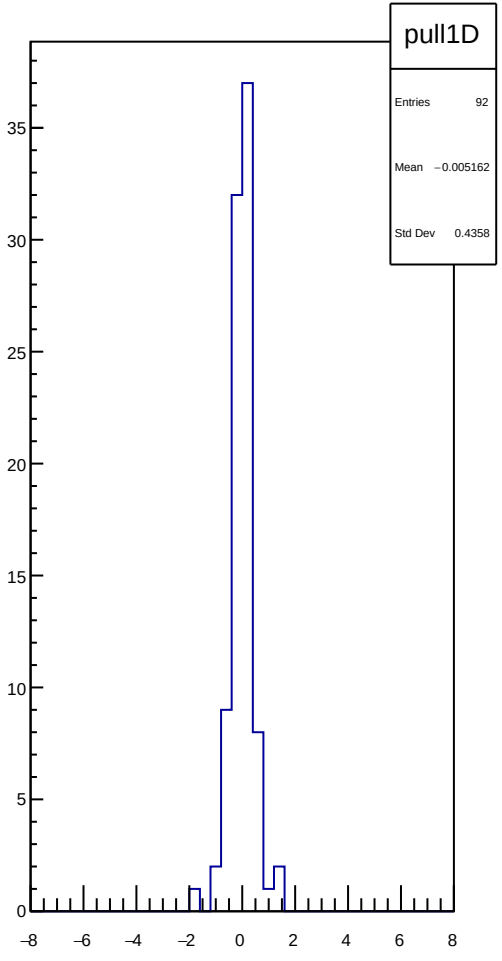

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.375e+05 / 91
p0 174.6 ± 0.1436
400
350
300
250
200
150
100

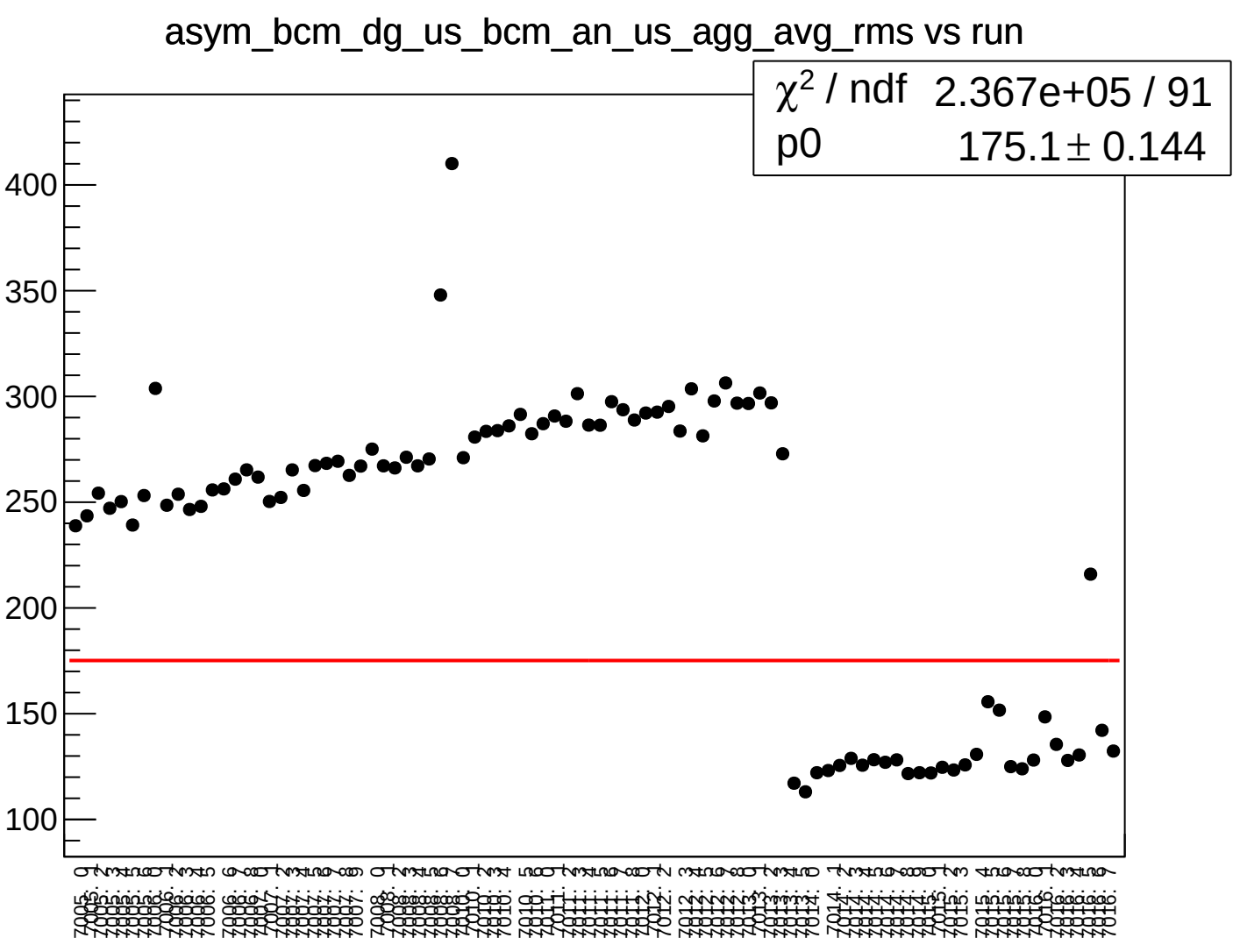

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 106 / 91
p0 9.826 ± 17.86
pull
Entries 92
Mean 4783
Std Dev 0

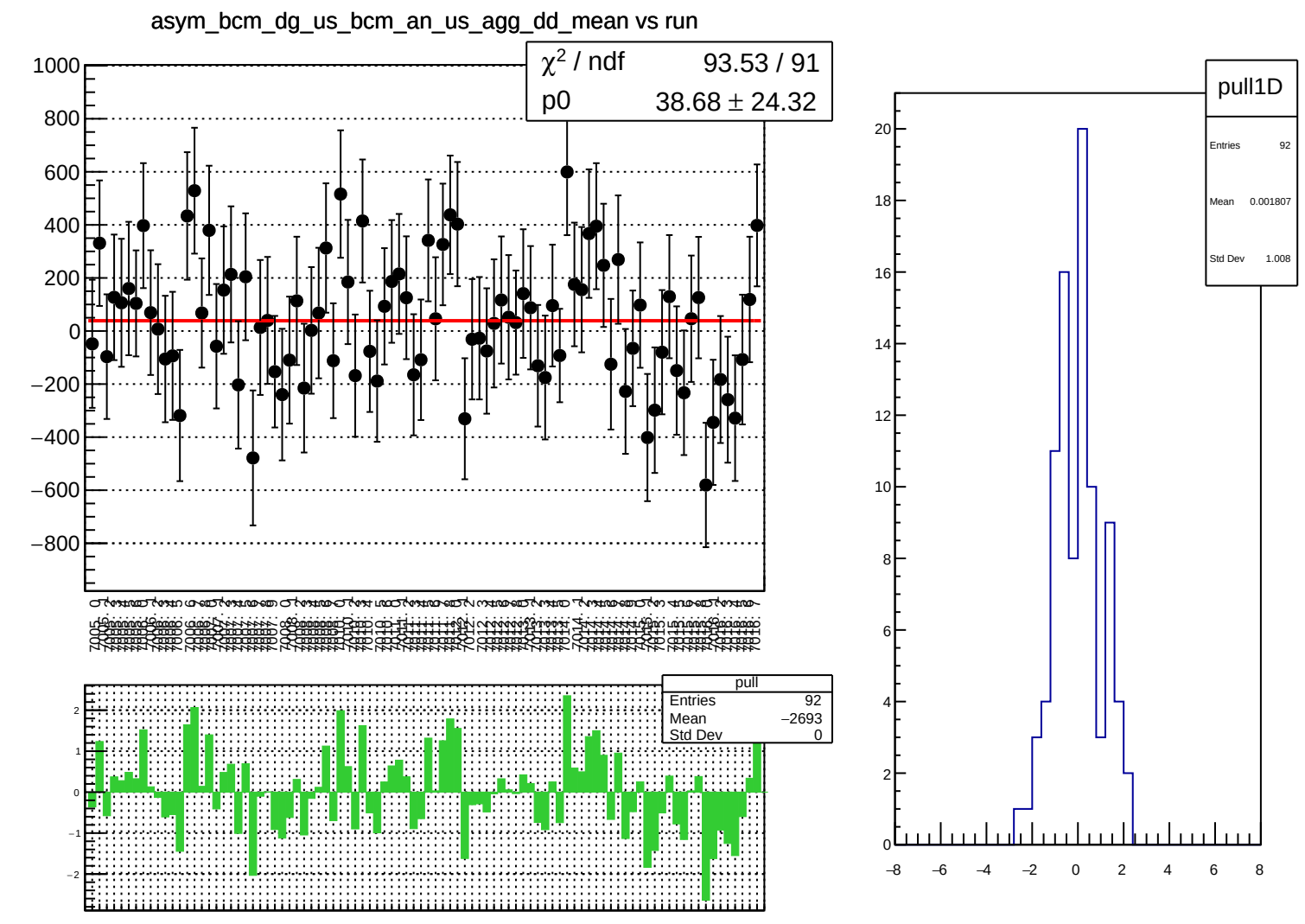

pull1D
Entries 92
Mean −0.0003531
Std Dev 1.074

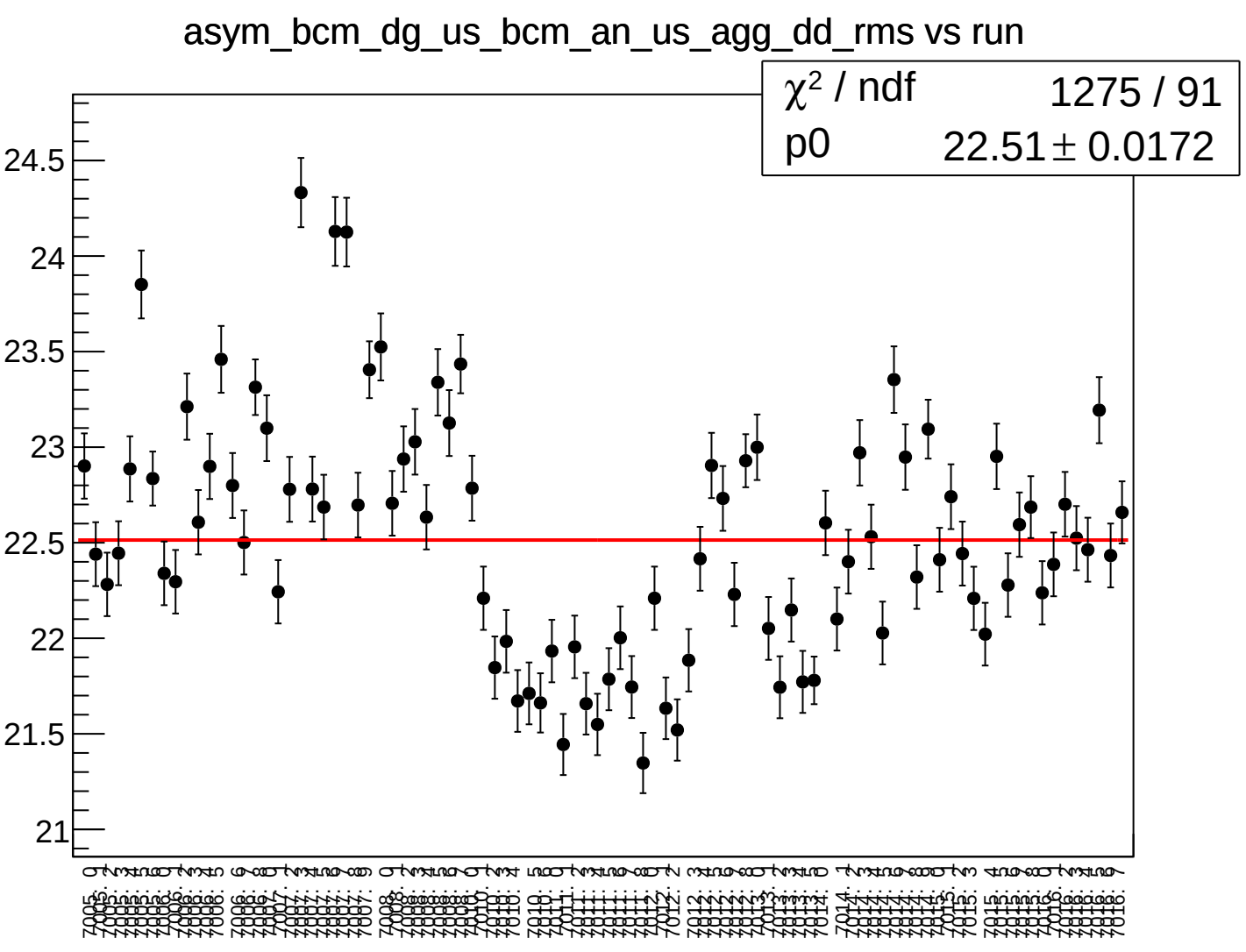

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
$\chi^2$ / ndf 6731 / 91
p0 16.51 ± 0.01263
19
18
17
16
15

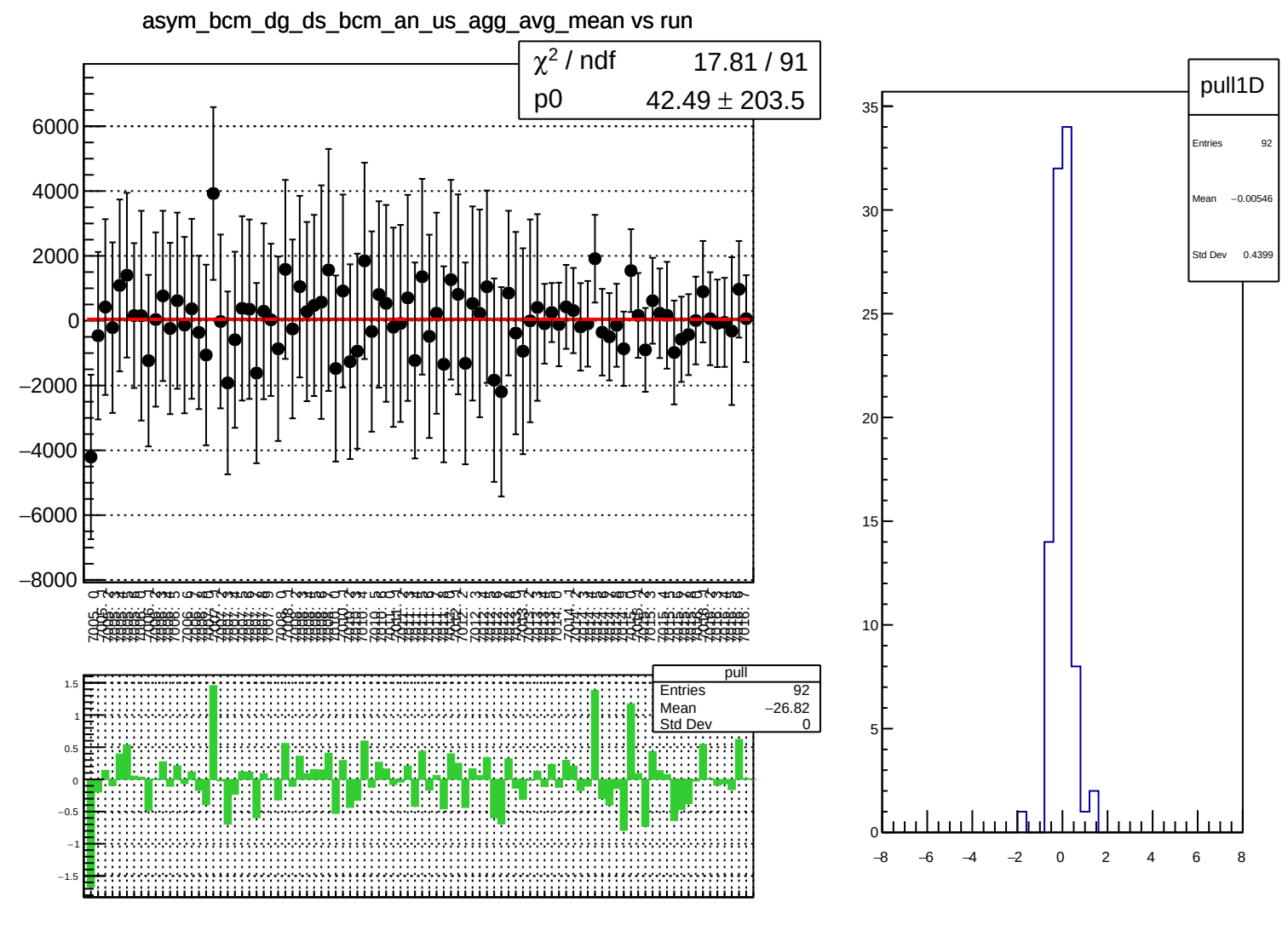

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.48 / 91
p0 81.13 ± 203.7
pull
Entries 92
Mean 49.77
Std Dev 73.09

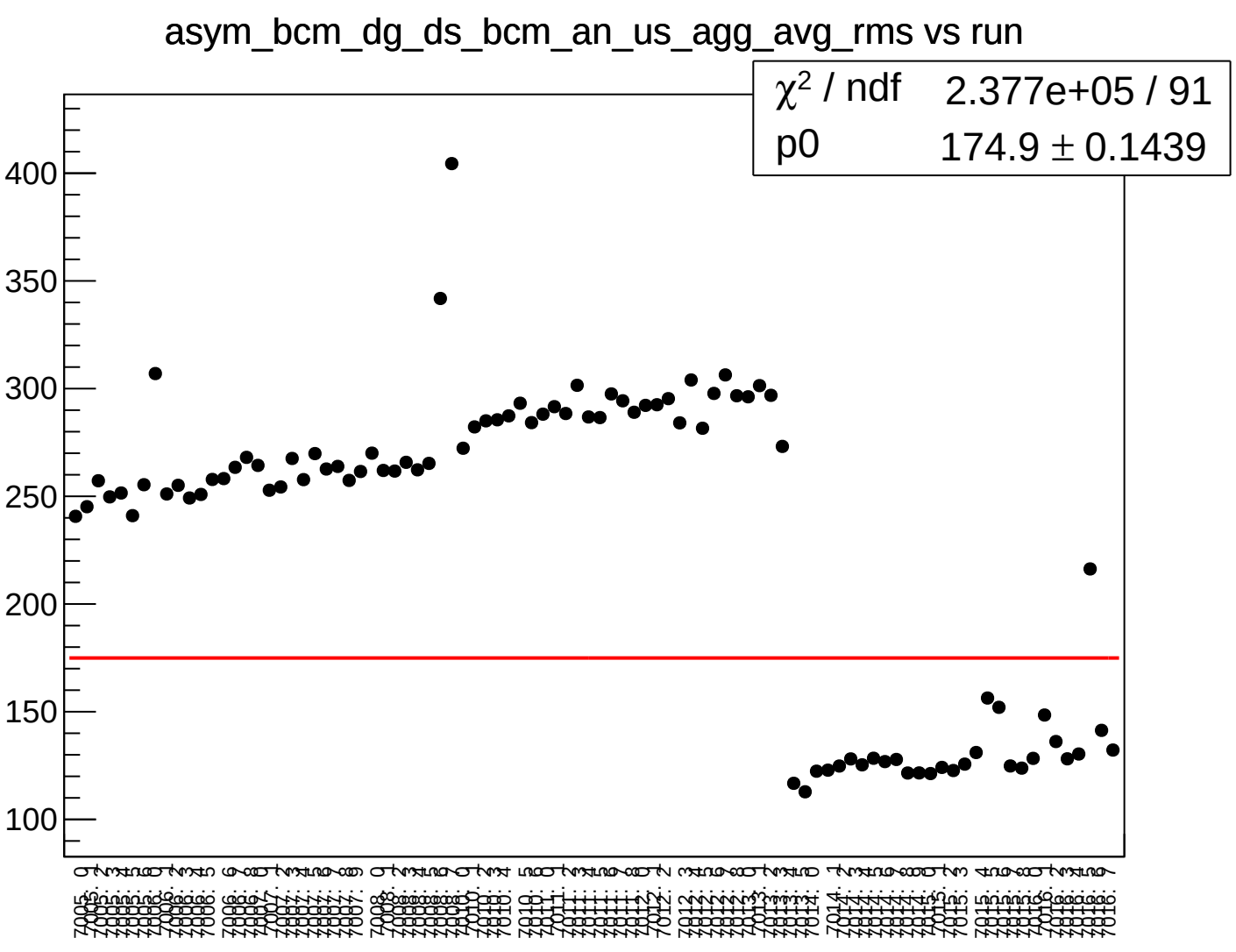

pull1D
Entries 92
Mean −0.005162
Std Dev 0.4358

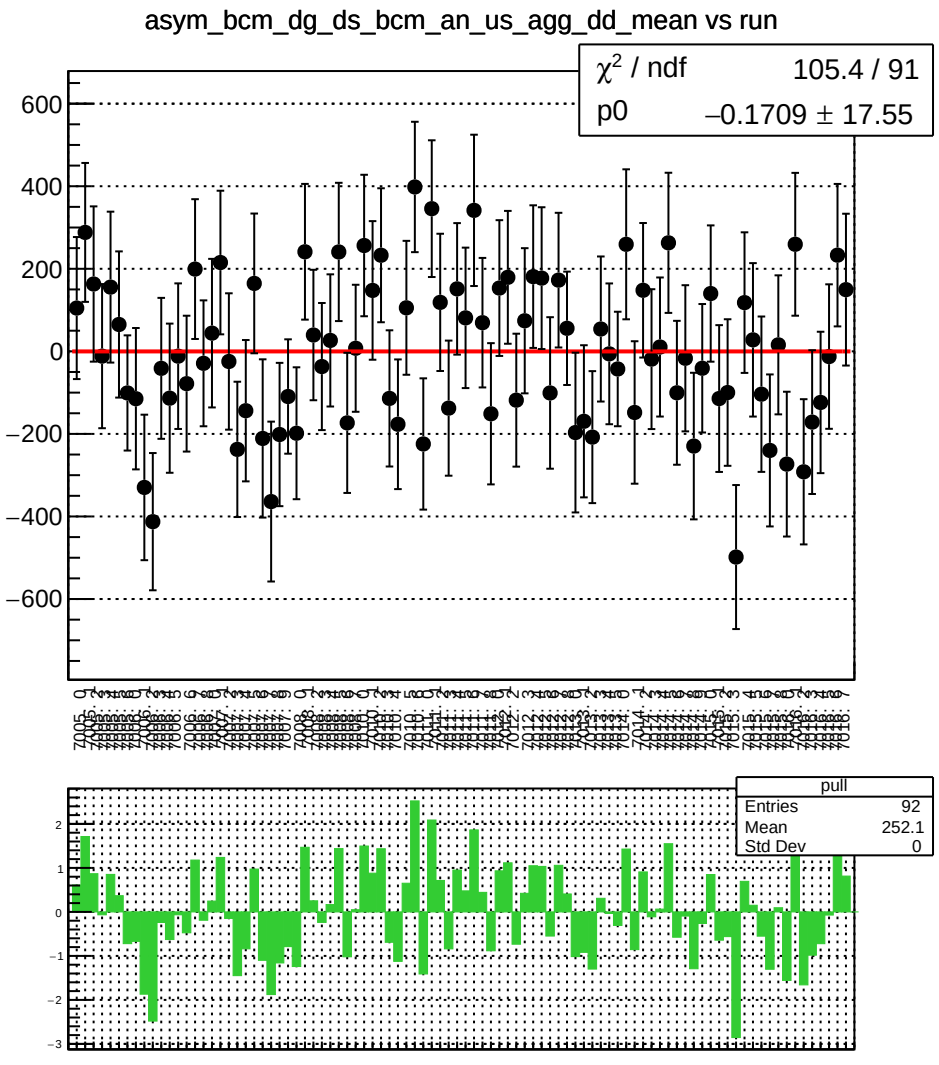

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.367e+05 / 91
p0 175.1 ± 0.144
400
350
300
250
200
150
100

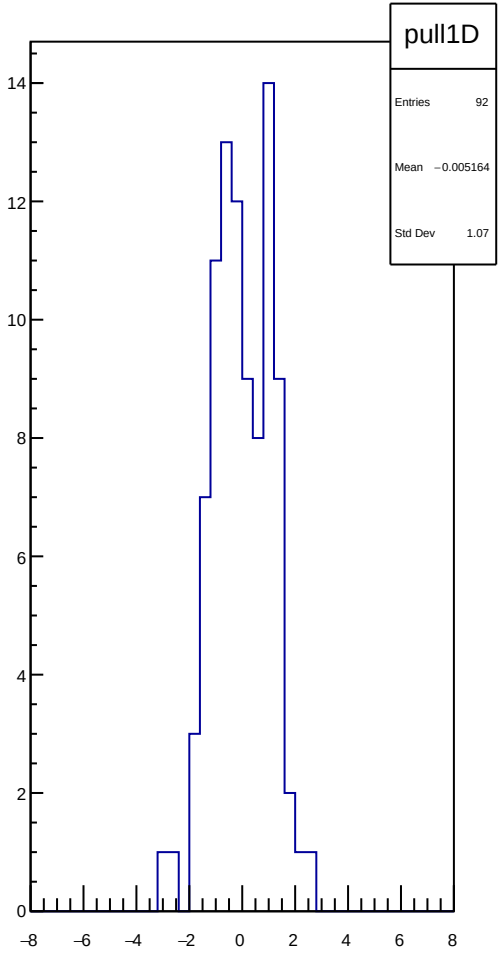

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 93.53 / 91
p0 38.68 ± 24.32
pull
Entries 92
Mean −2693
Std Dev 0
pull1D
Entries 92
Mean 0.001807
Std Dev 1.008

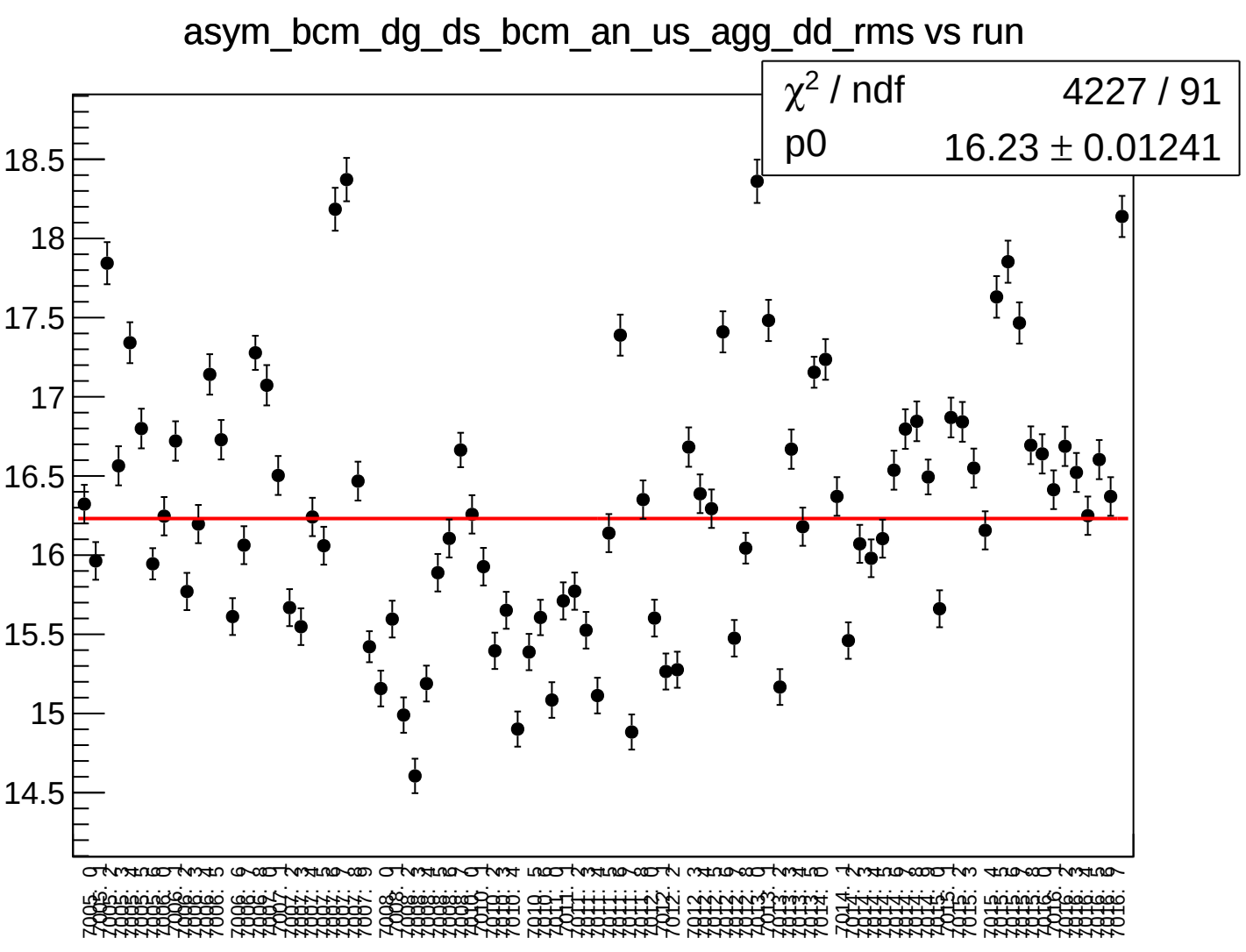

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1275 / 91
p0 22.51 ± 0.0172
24.5
24
23.5
23
22.5
22
21.5
21

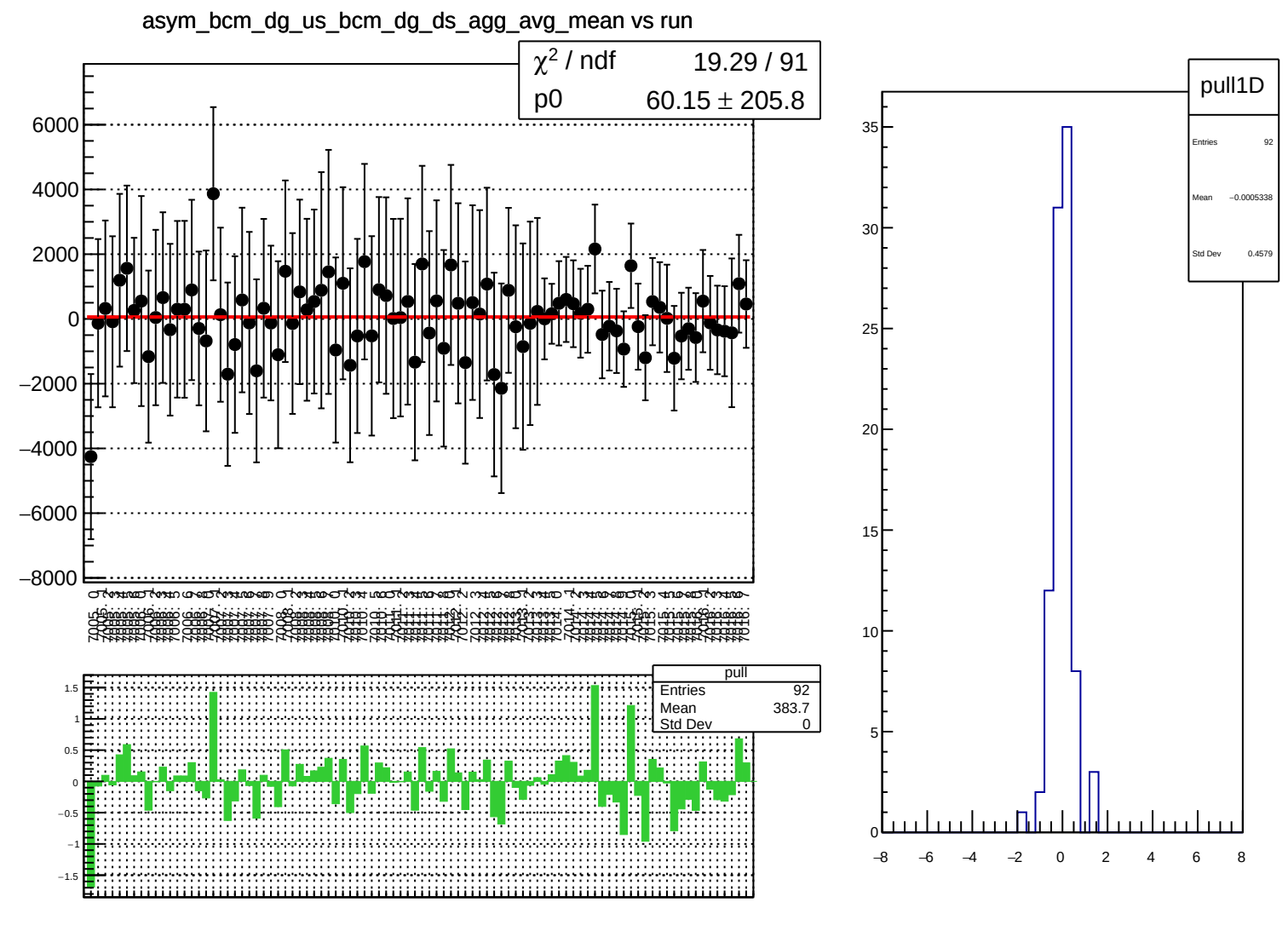

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.81 / 91
p0 42.49 ± 203.5
pull
Entries 92
Mean −26.82
Std Dev 0
pull1D
Entries 92
Mean −0.00546
Std Dev 0.4399

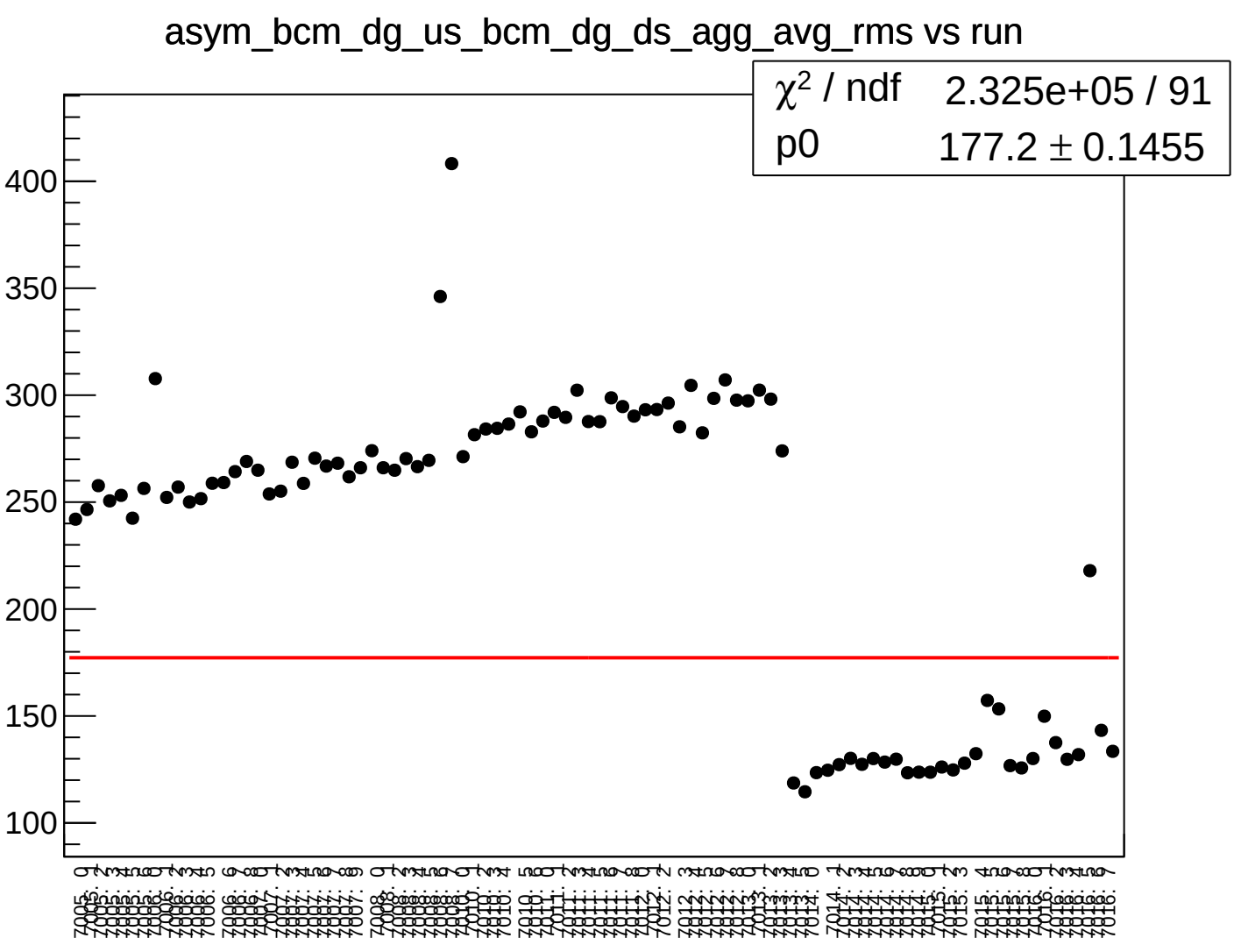

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.377e+05 / 91
p0 174.9 ± 0.1439
400
350
300
250
200
150
100

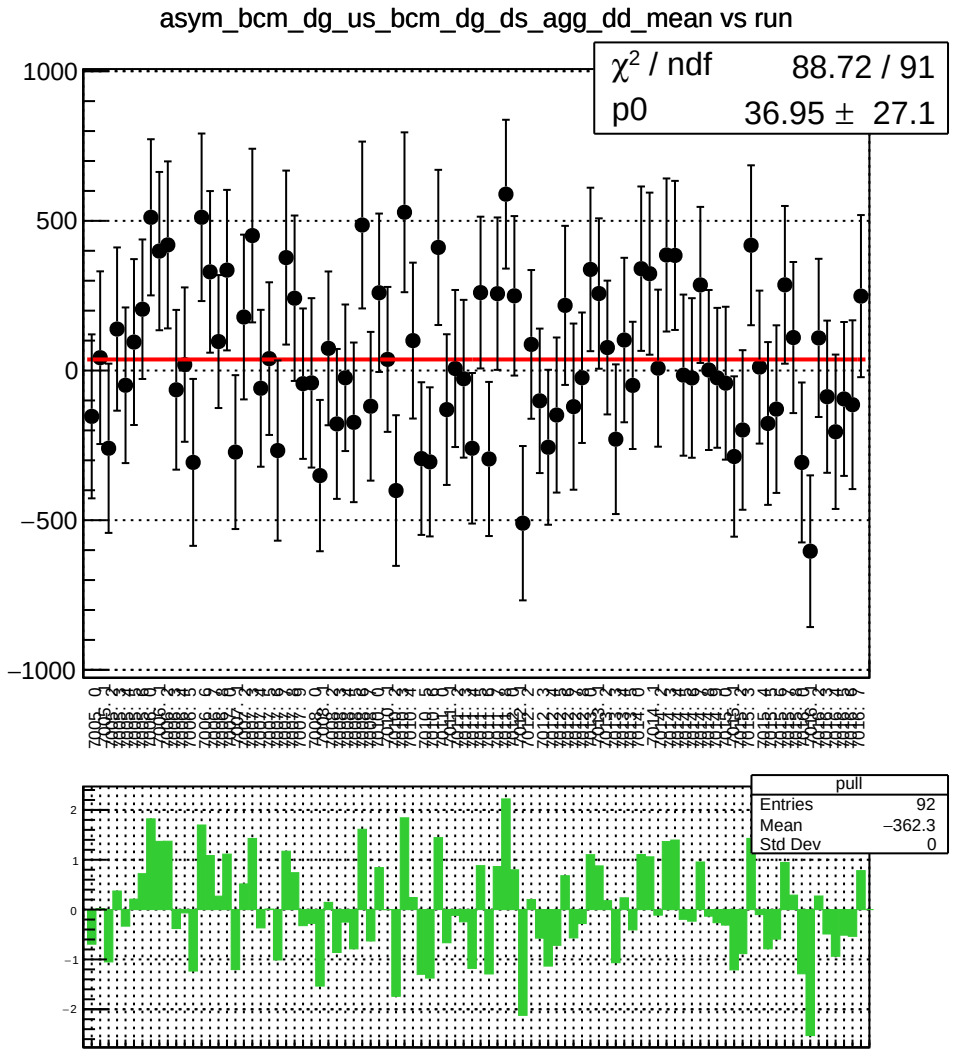

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 105.4 / 91
p0 −0.1709 ± 17.55
pull
Entries 92
Mean 252.1
Std Dev 0

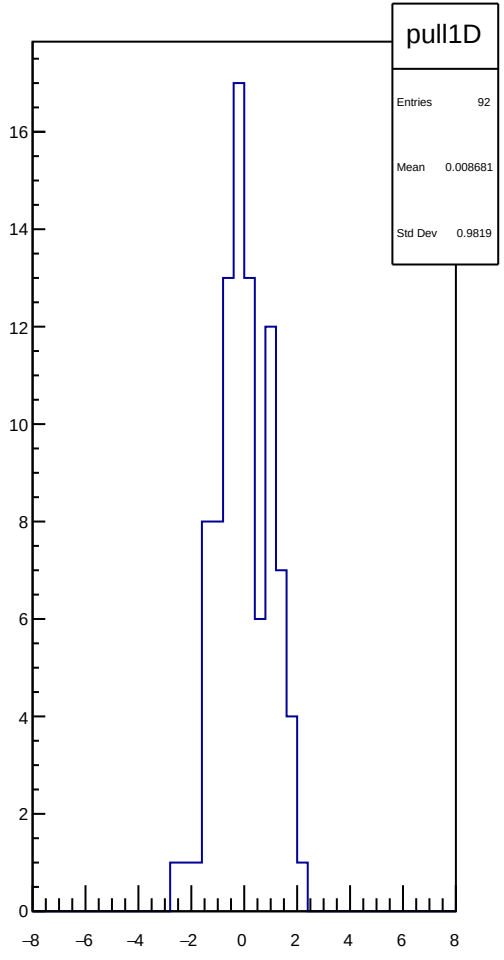

pull1D
Entries 92
Mean −0.005164
Std Dev 1.07

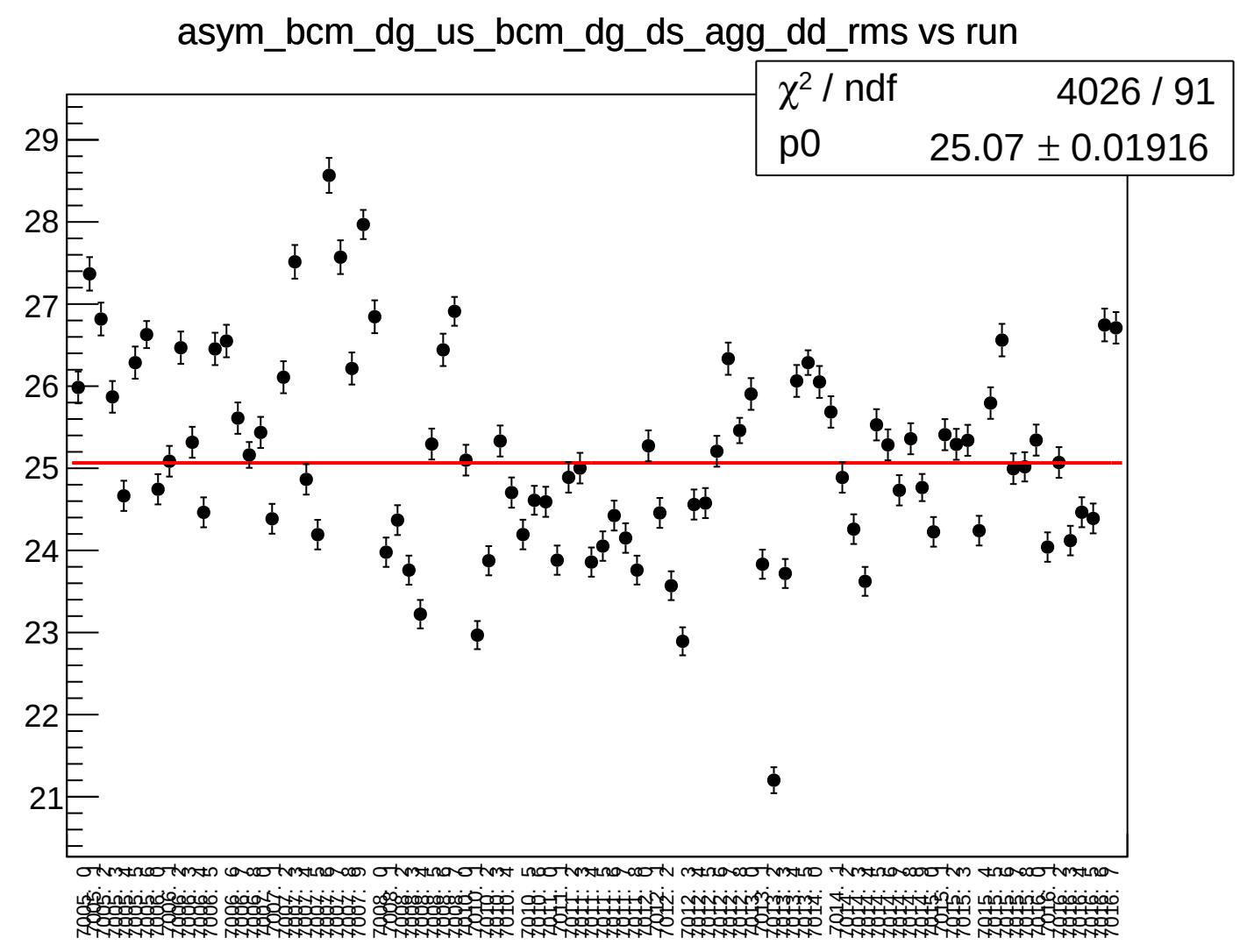

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4227 / 91
p0 16.23 ± 0.01241
18.5
18
17.5
17
16.5
16
15.5
15
14.5

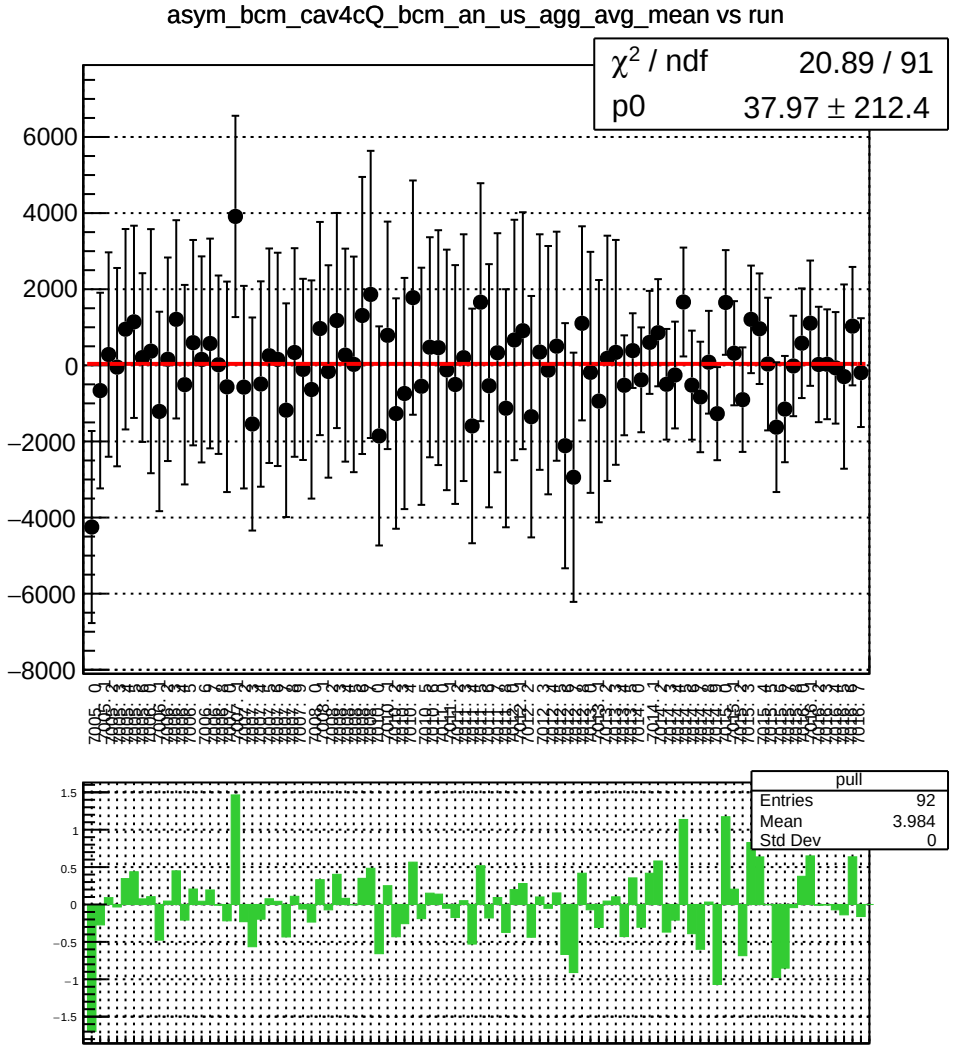

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.29 / 91
p0 60.15 ± 205.8
pull
Entries 92
Mean 383.7
Std Dev 0
pull1D
Entries 92
Mean −0.0005338
Std Dev 0.4579

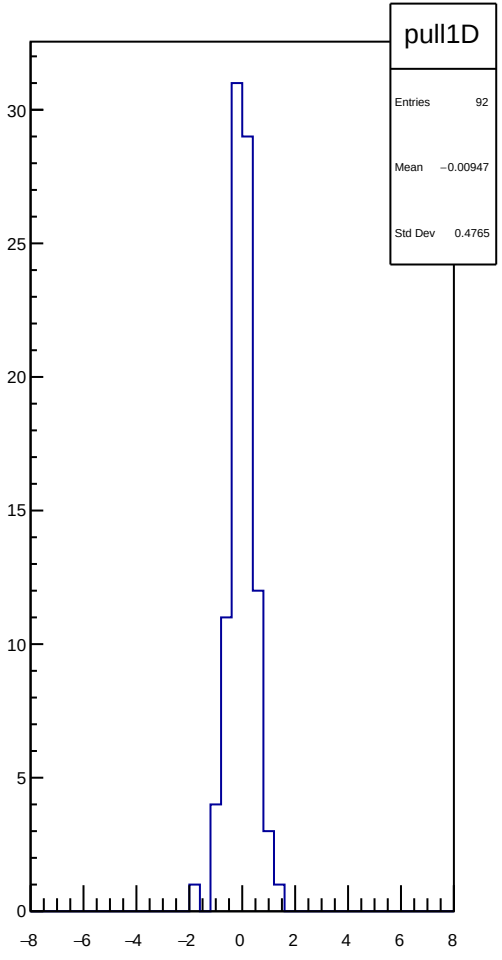

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.325e+05 / 91
p0 177.2 ± 0.1455
400
350
300
250
200
150
100

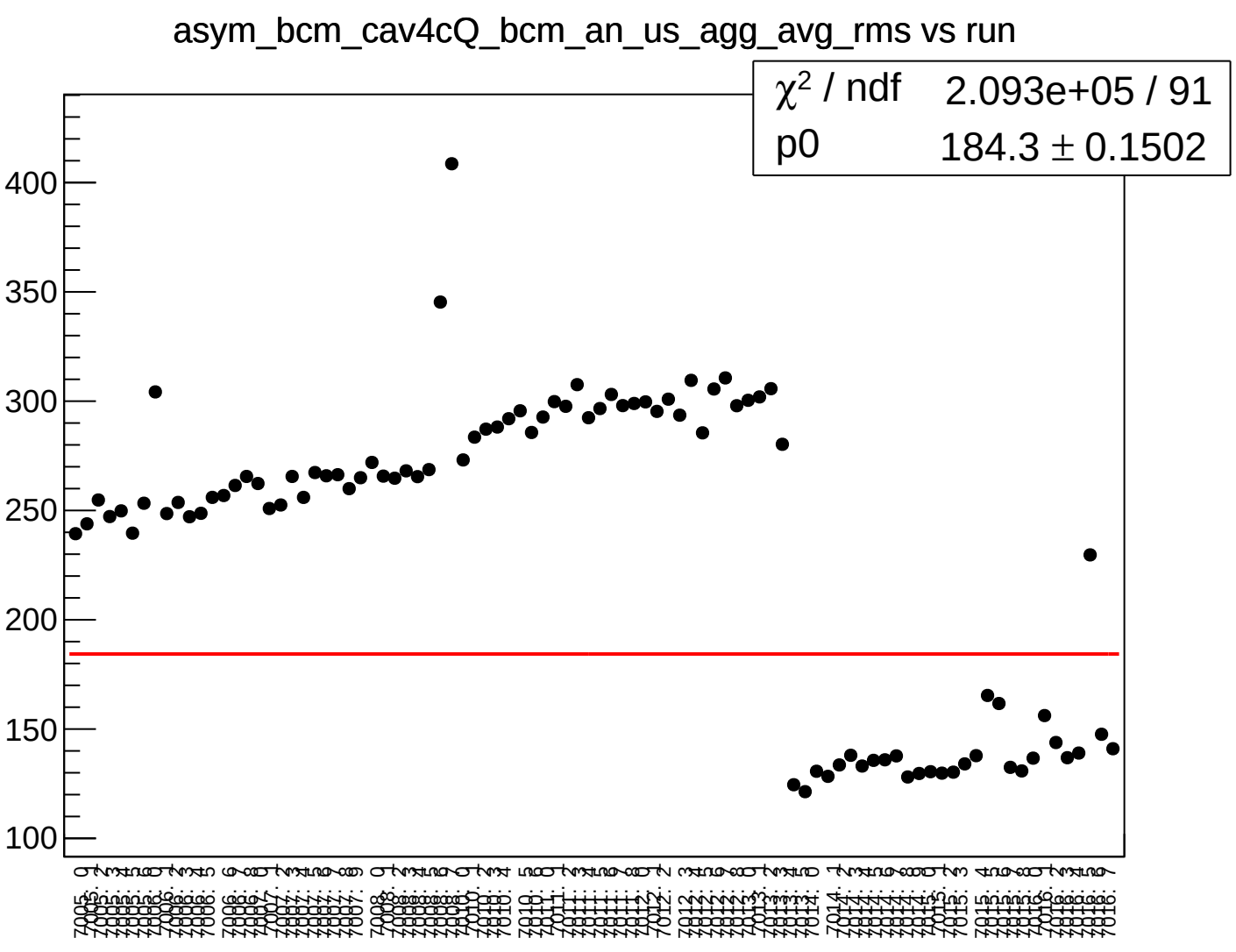

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 88.72 / 91
p0 36.95 ± 27.1
1000
500
0
−500
−1000
pull
Entries 92
Mean −362.3
Std Dev 0
2
1
0
−1
−2

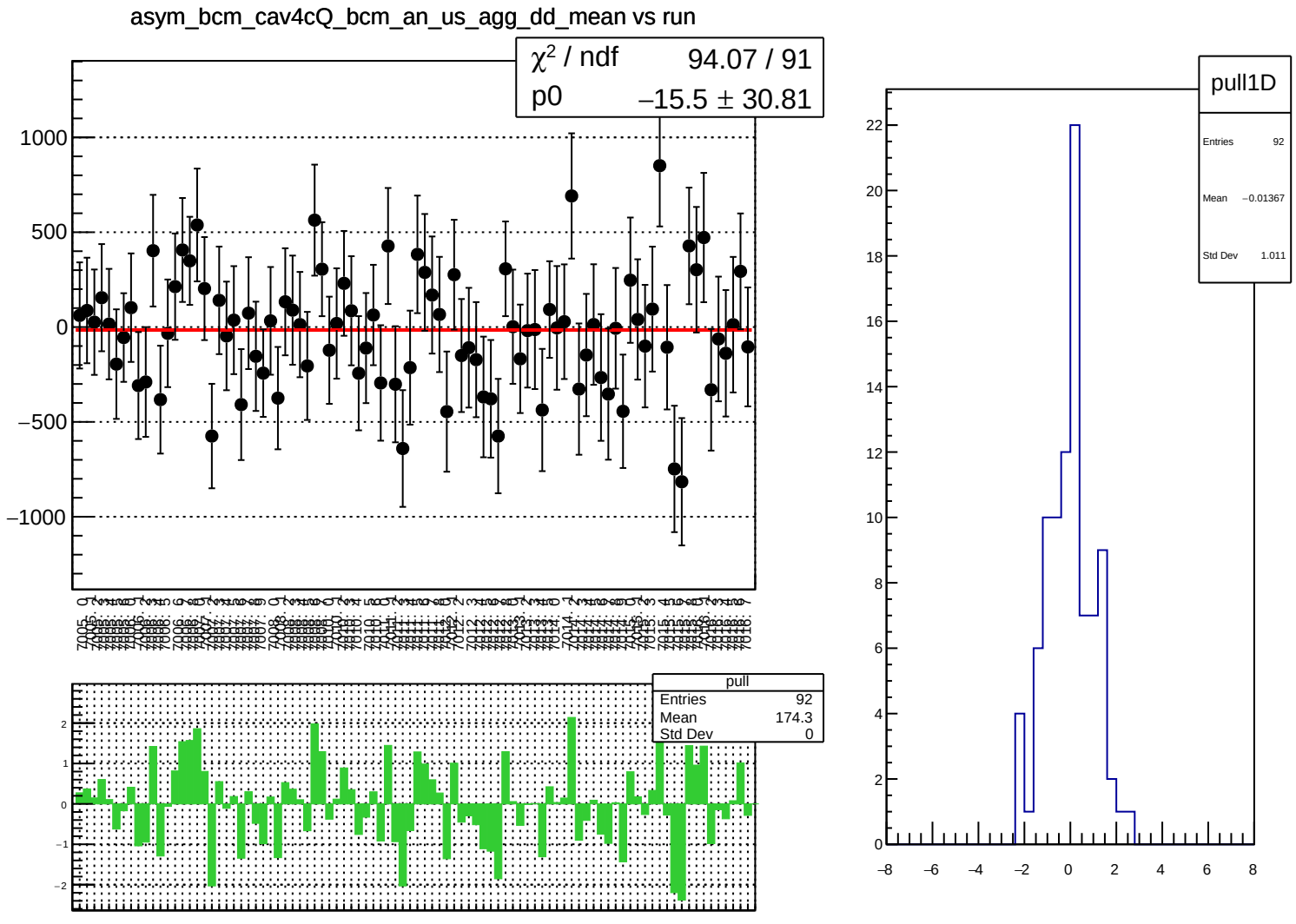

pull1D
Entries 92
Mean 0.008681
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

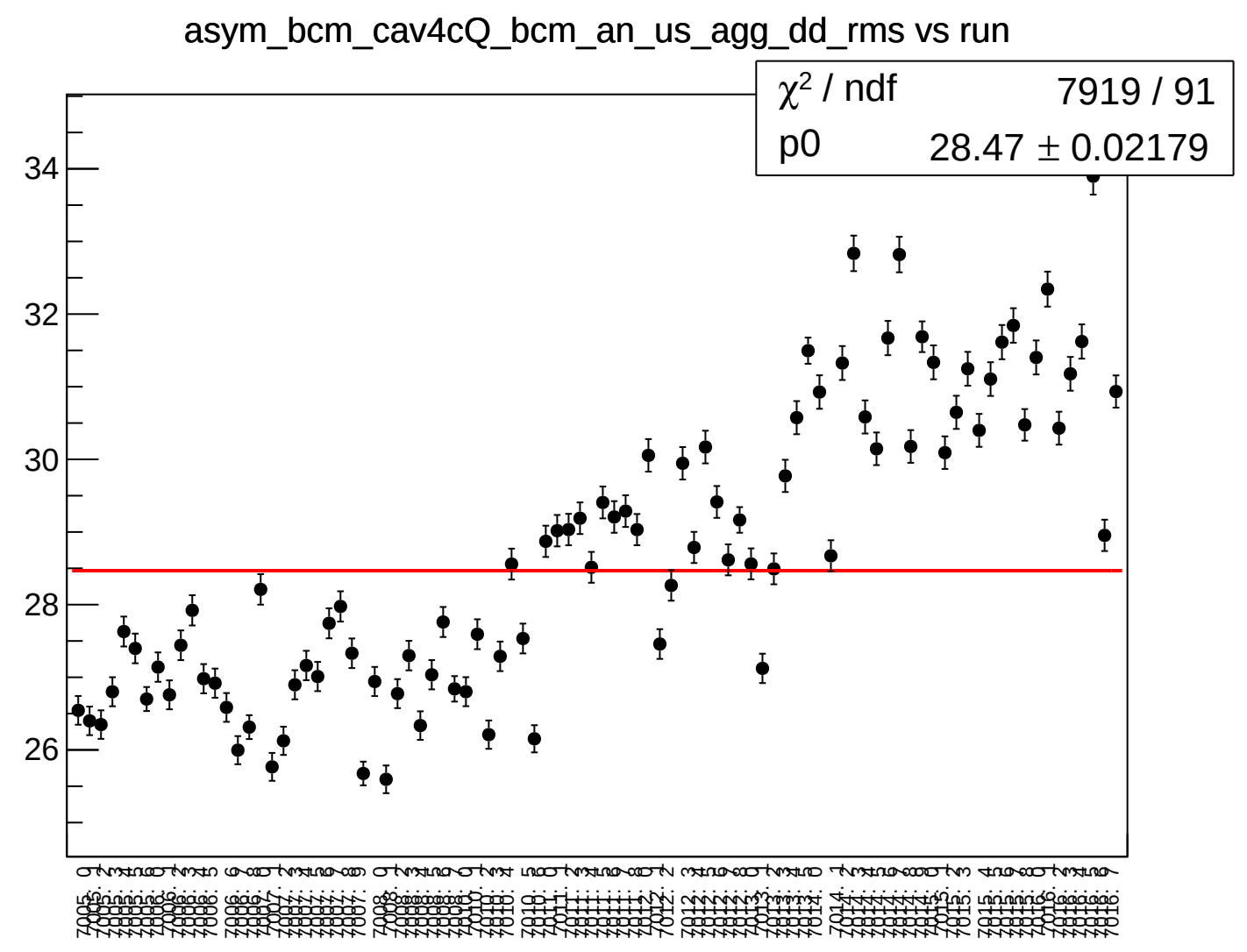

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4026 / 91
p0 25.07 ± 0.01916
29
28
27
26
25
24
23
22
21

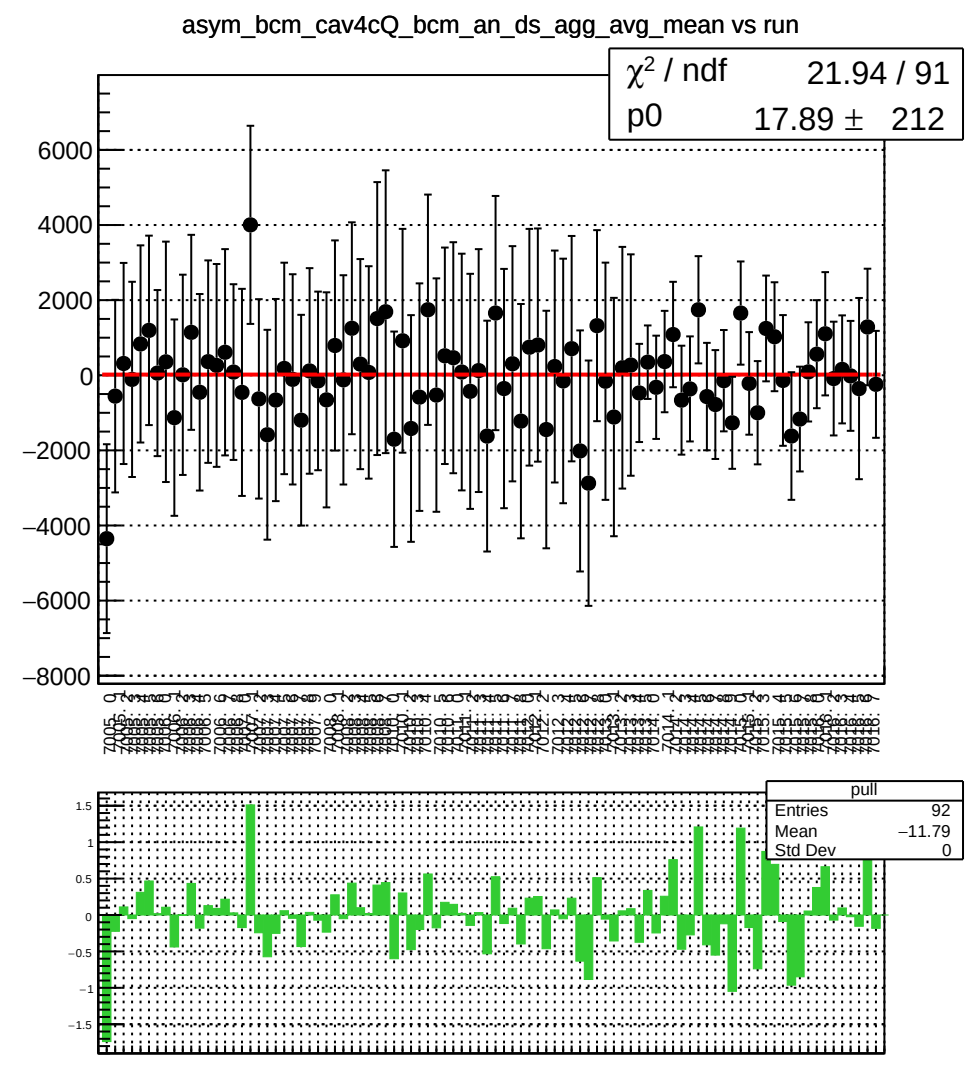

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.89 / 91
p0 37.97 ± 212.4
pull
Entries 92
Mean 3.984
Std Dev 0

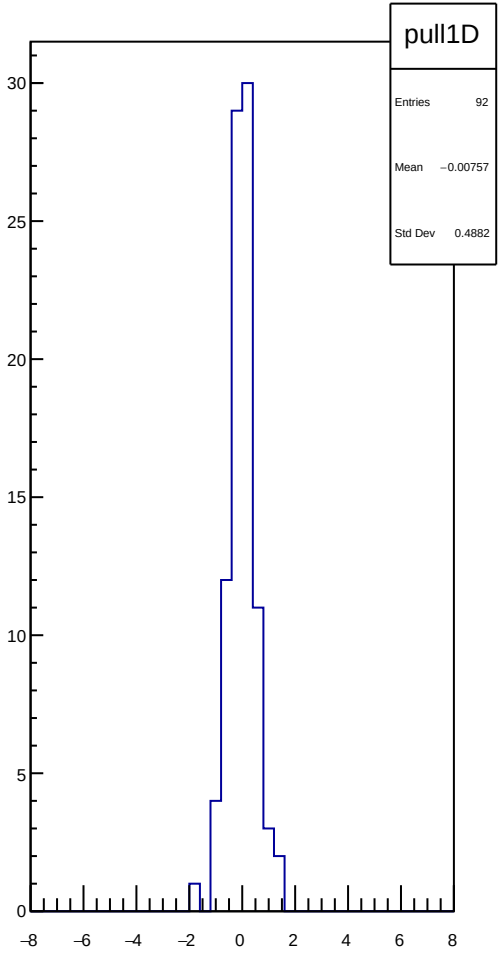

pull1D
Entries 92
Mean −0.00947
Std Dev 0.4765

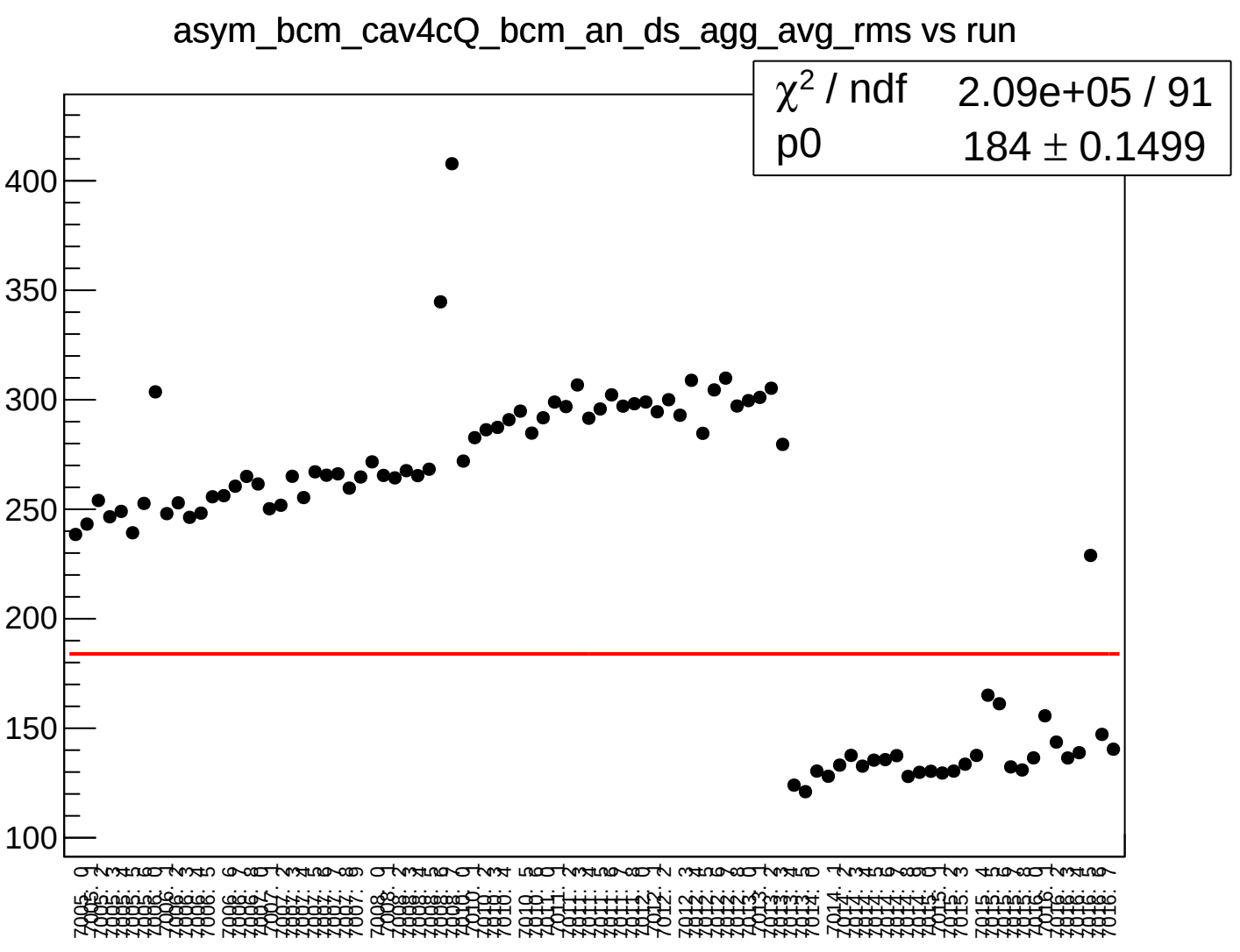

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.093e+05 / 91
p0 184.3 ± 0.1502
400
350
300
250
200
150
100

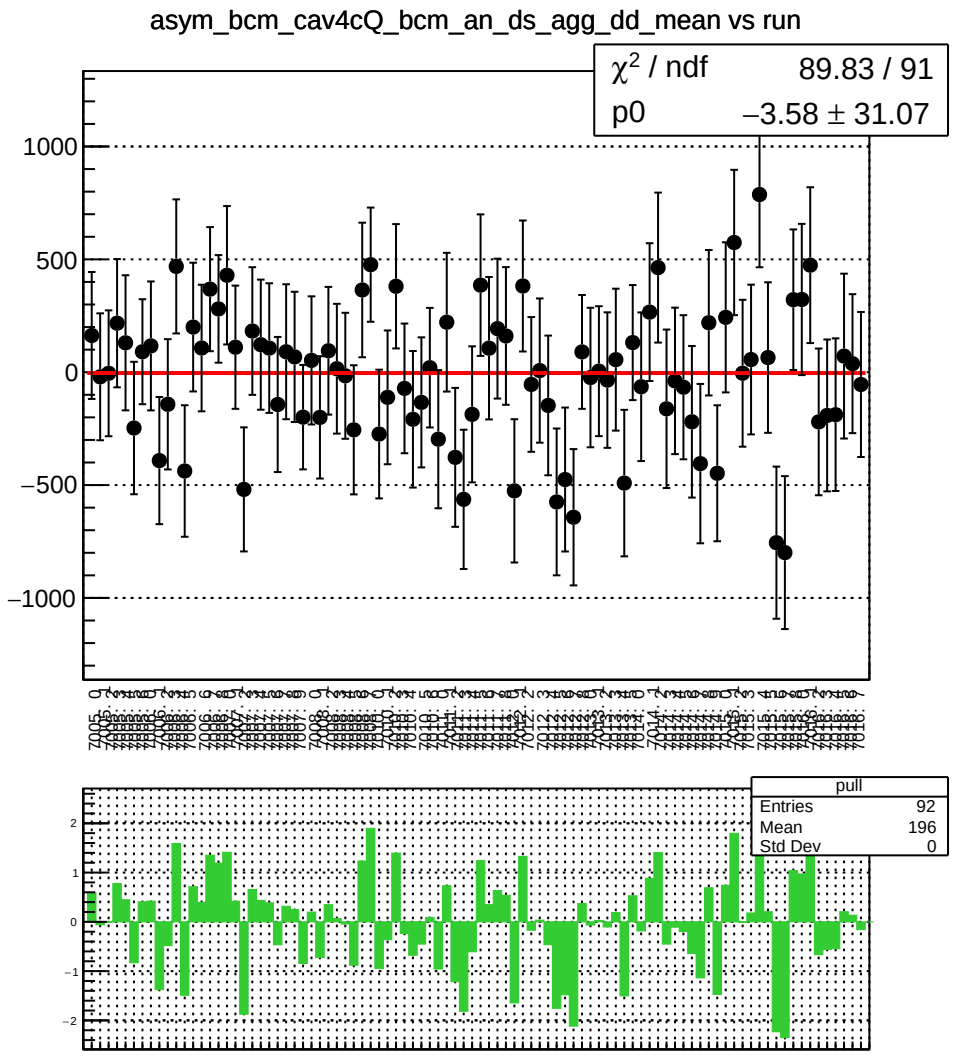

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 94.07 / 91
p0 −15.5 ± 30.81
1000
500
0
−500
−1000
pull
Entries 92
Mean 174.3
Std Dev 0
pull1D
Entries 92
Mean −0.01367
Std Dev 1.011
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

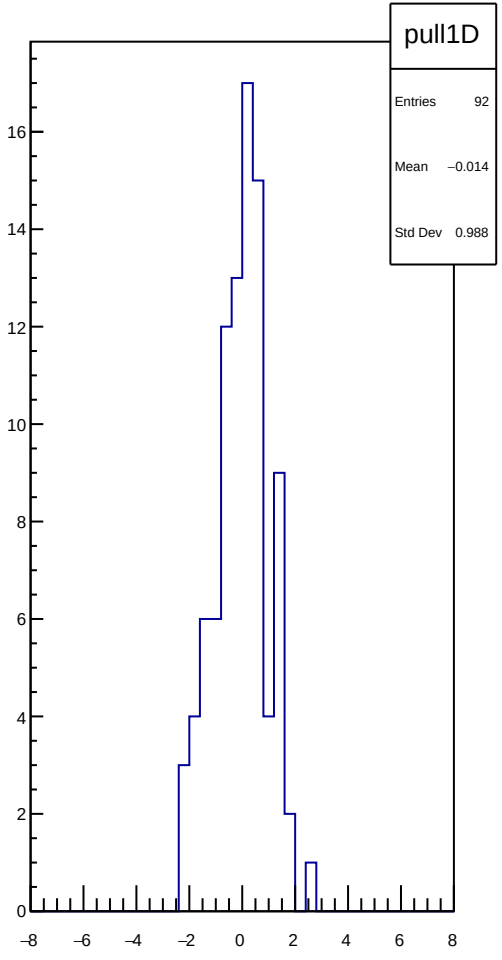

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 7919 / 91
p0 28.47 ± 0.02179
34
32
30
28
26

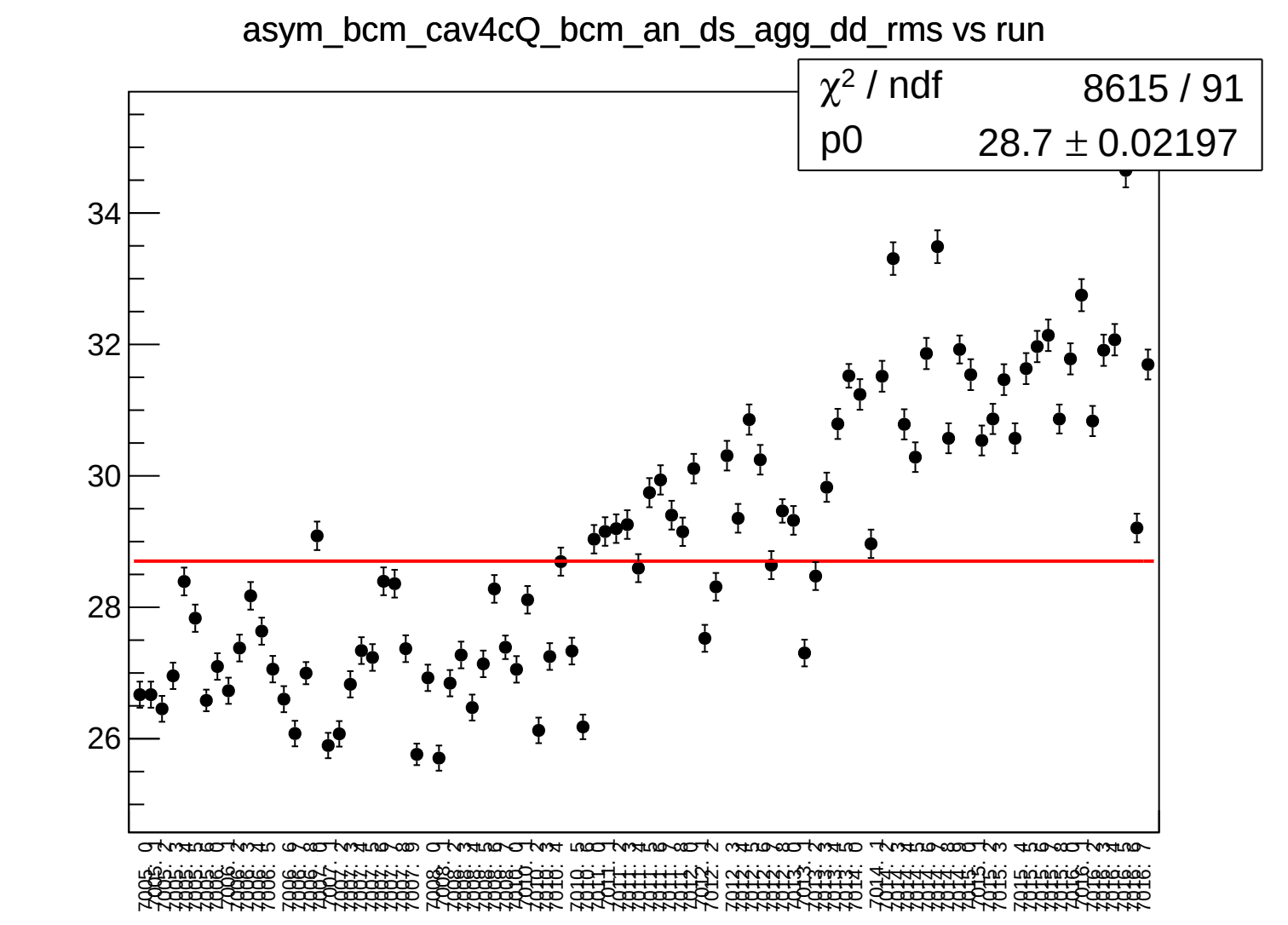

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 21.94 / 91
p0 17.89 ± 212
pull
Entries 92
Mean −11.79
Std Dev 0

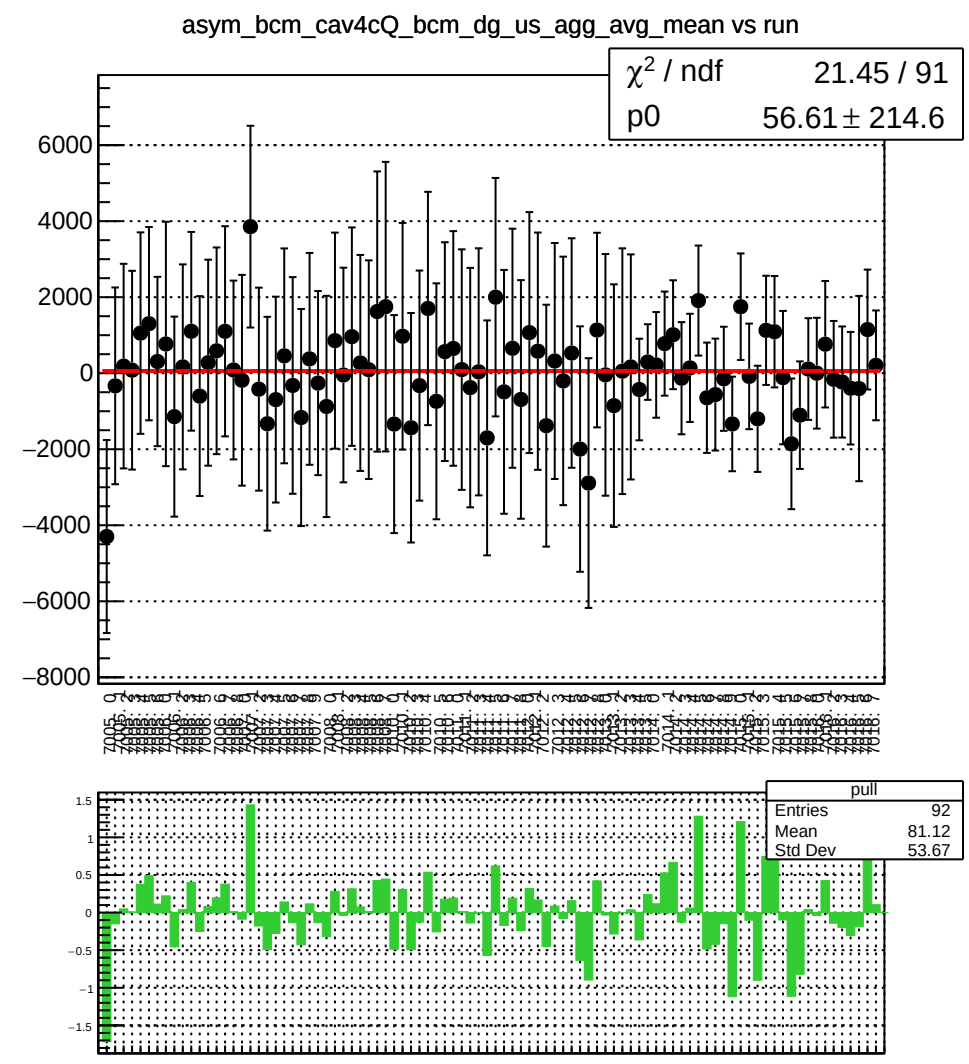

pull1D
Entries 92
Mean −0.00757
Std Dev 0.4882

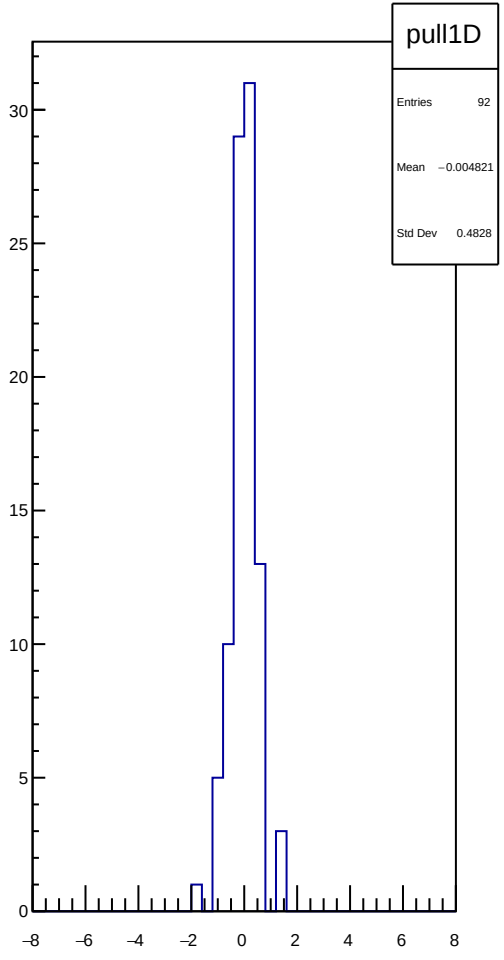

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.09e+05 / 91
p0 184 ± 0.1499
400
350
300
250
200
150
100

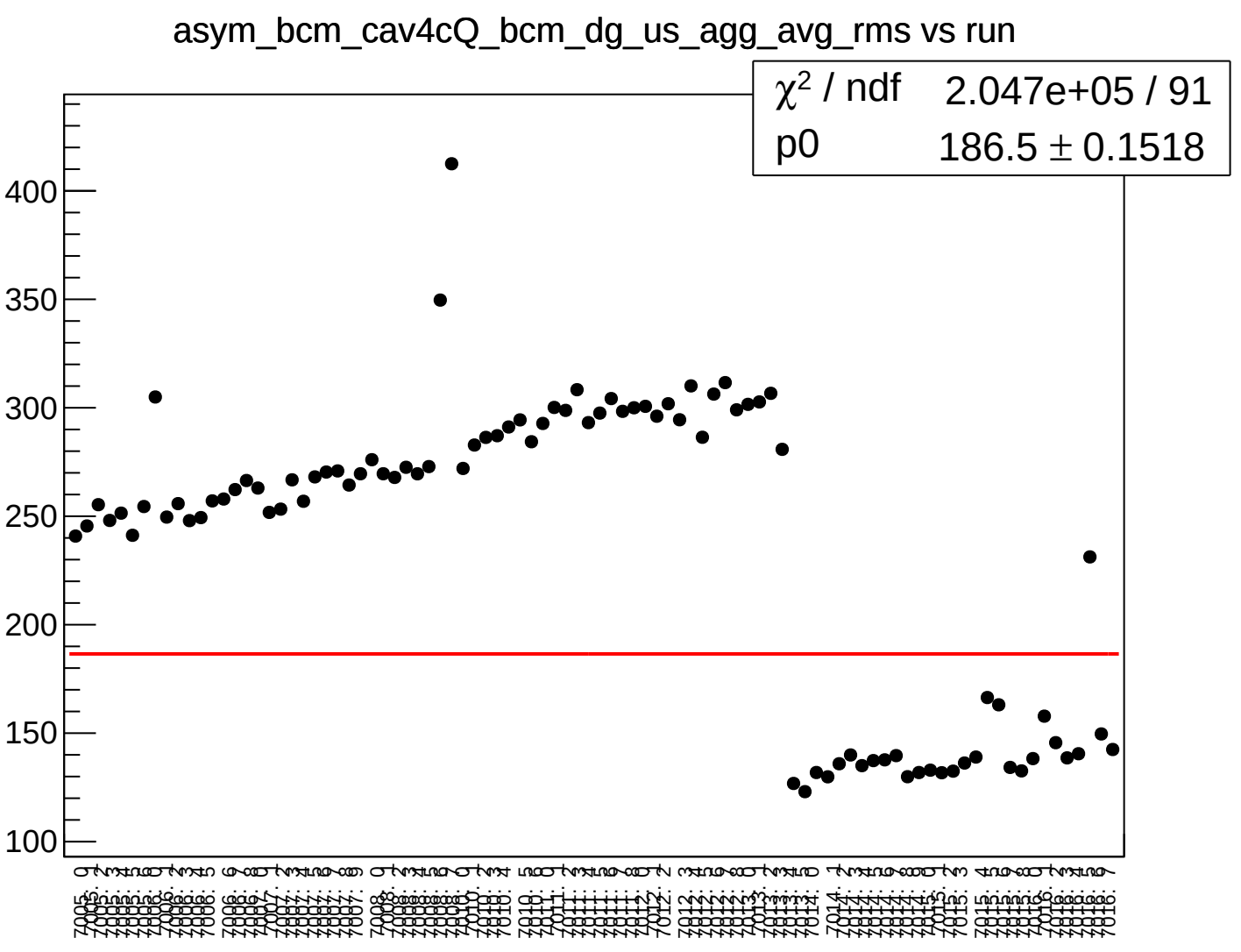

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 89.83 / 91
p0 −3.58 ± 31.07
1000
500
0
−500
−1000
pull
Entries 92
Mean 196
Std Dev 0
2
1
0
−1
−2

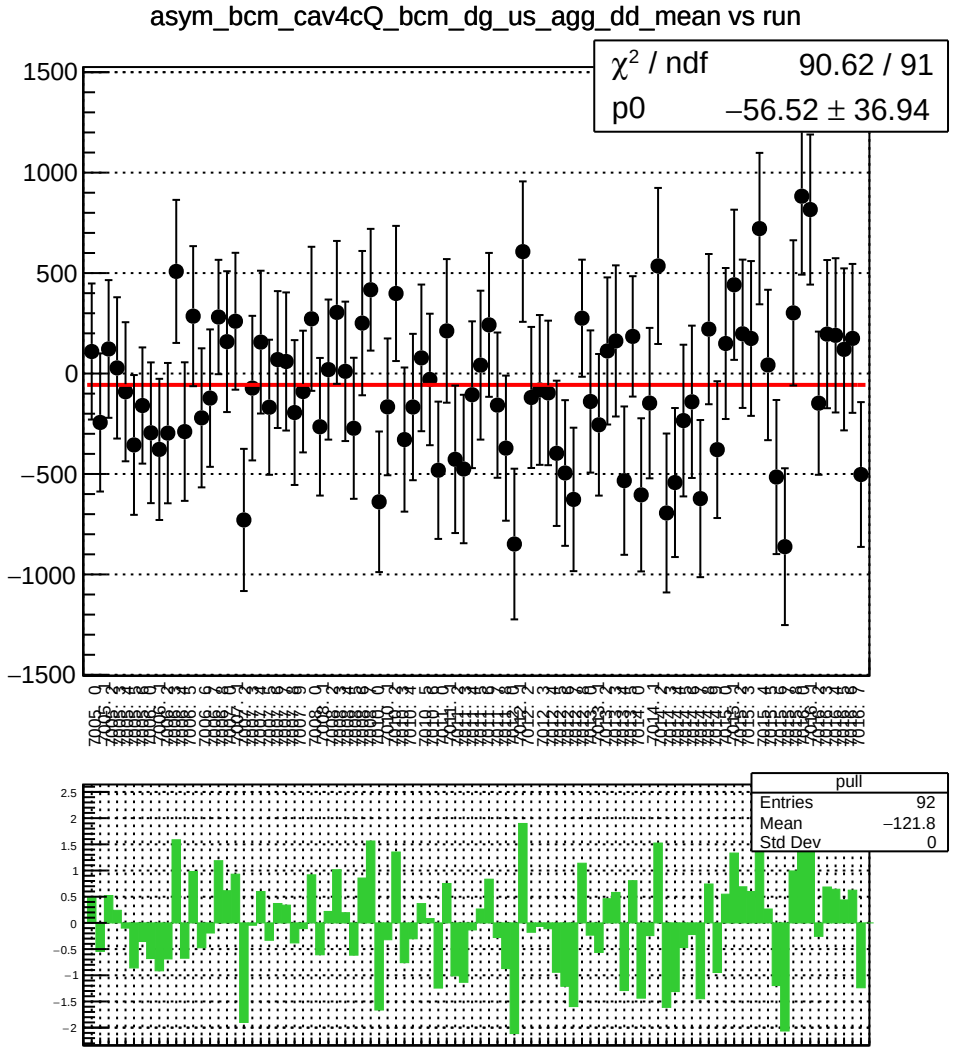

pull1D
Entries 92
Mean −0.014
Std Dev 0.988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

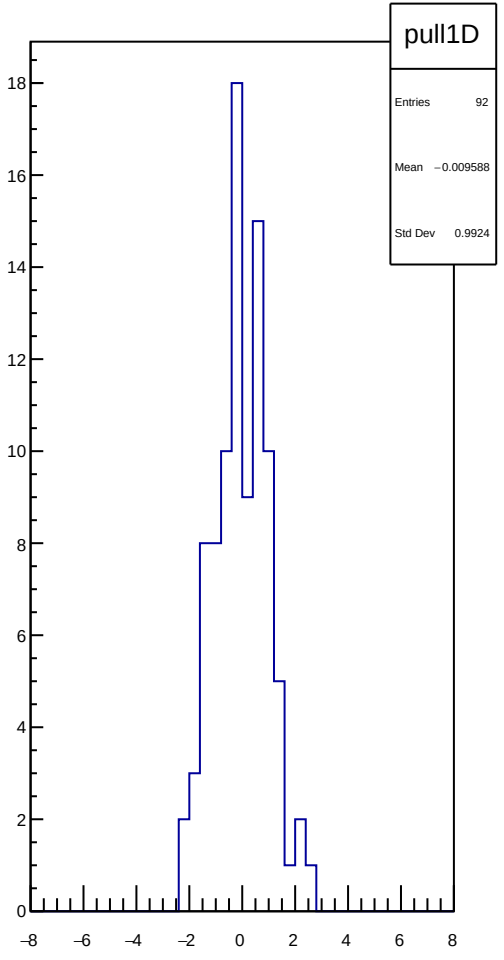

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 8615 / 91
p0 28.7 ± 0.02197
34
32
30
28
26

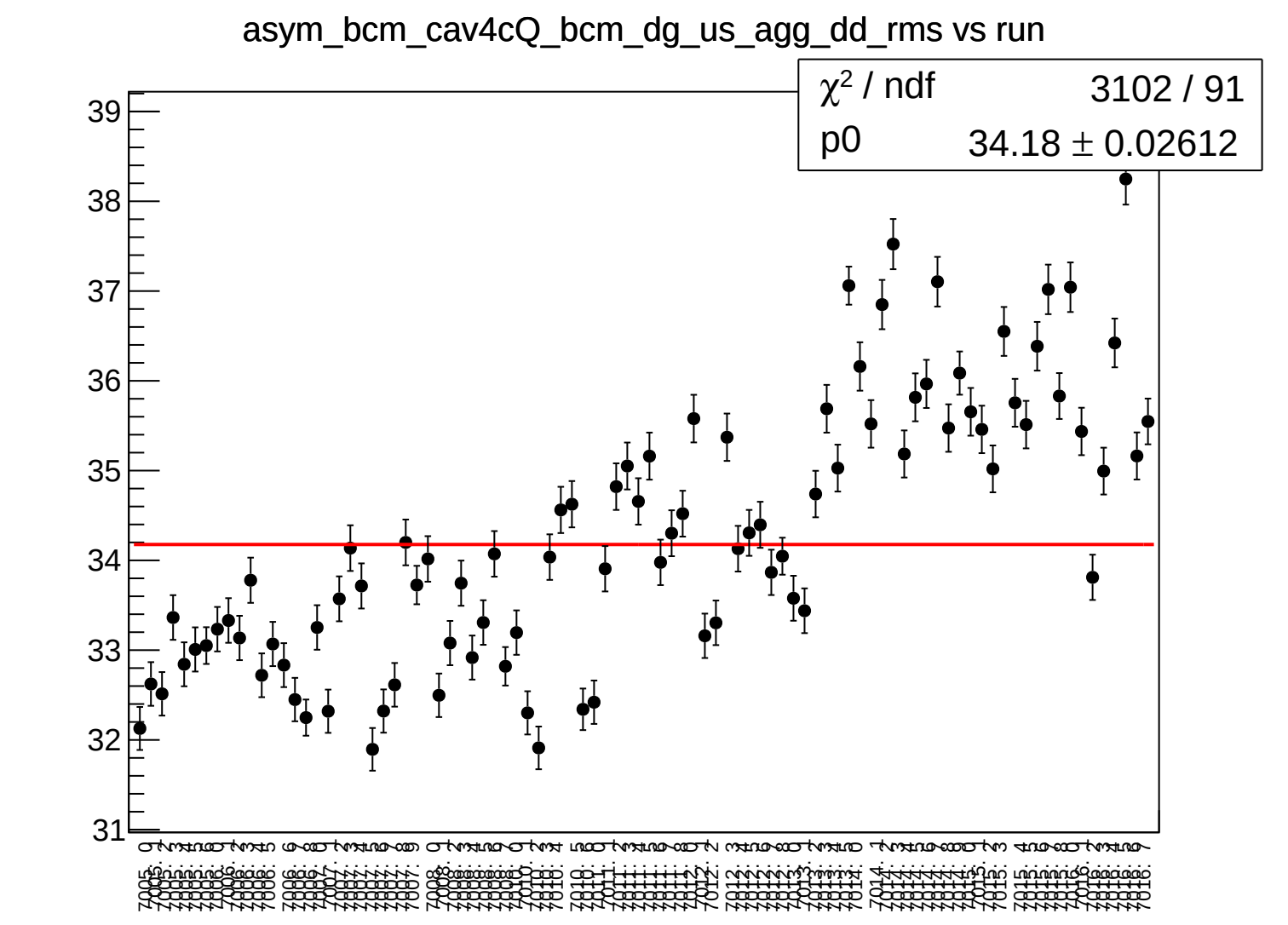

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 21.45 / 91
p0 56.61 ± 214.6
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean 81.12
Std Dev 53.67
1.5
1
0.5
0
−0.5
−1
−1.5

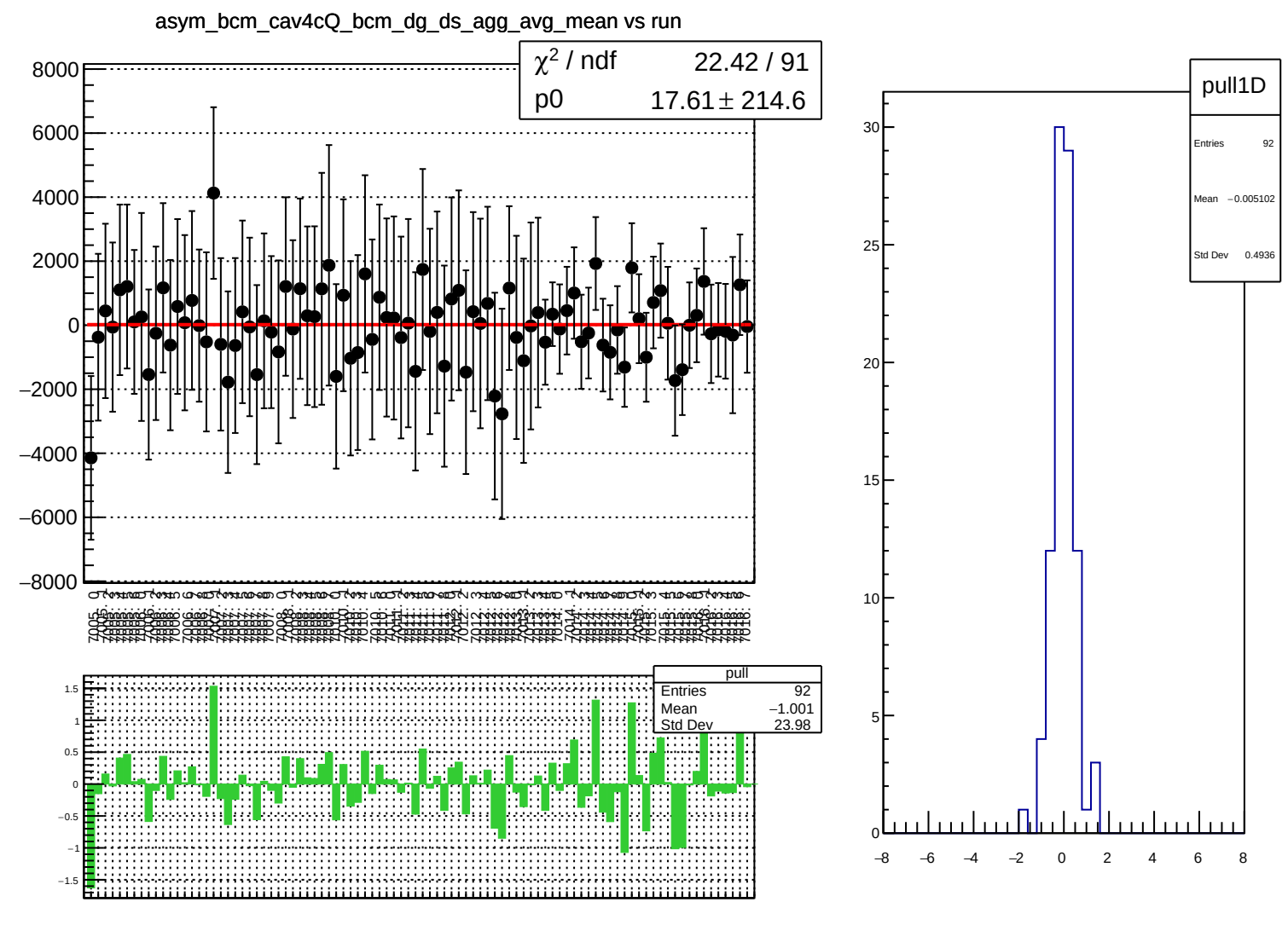

pull1D
Entries 92
Mean −0.004821
Std Dev 0.4828
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

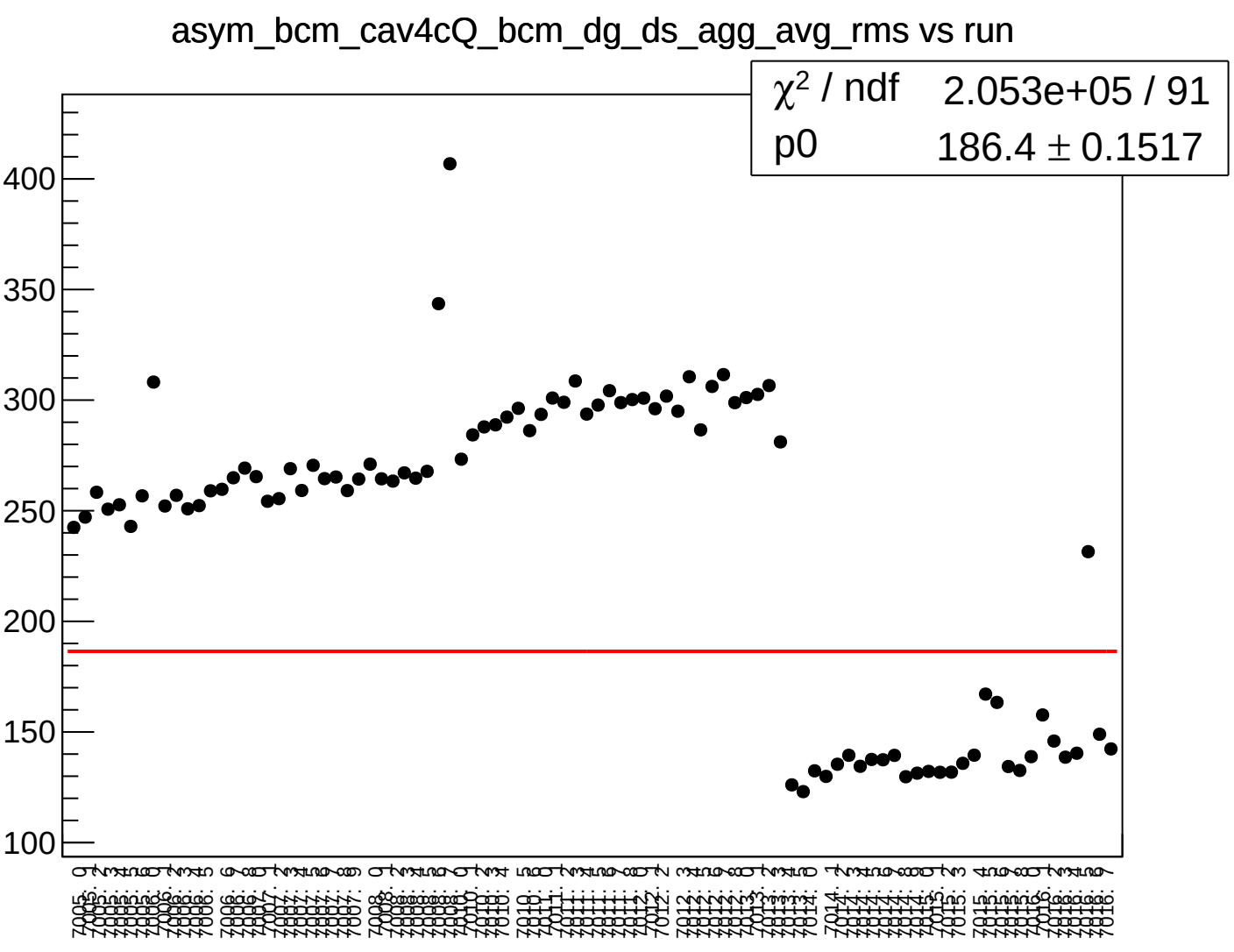

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.047e+05 / 91
p0 186.5 ± 0.1518
400
350
300
250
200
150
100

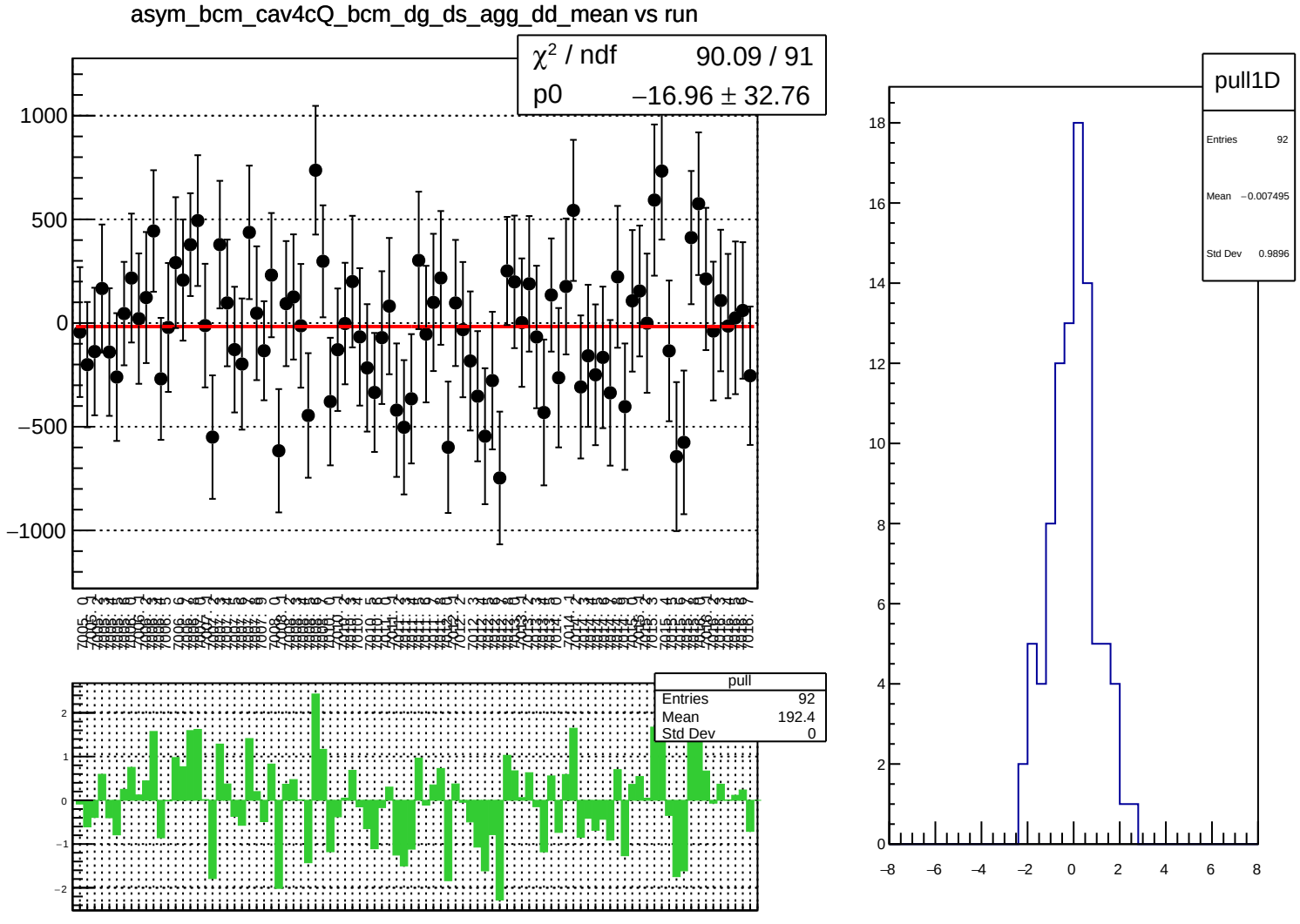

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 90.62 / 91
p0 −56.52 ± 36.94
pull
Entries 92
Mean −121.8
Std Dev 0

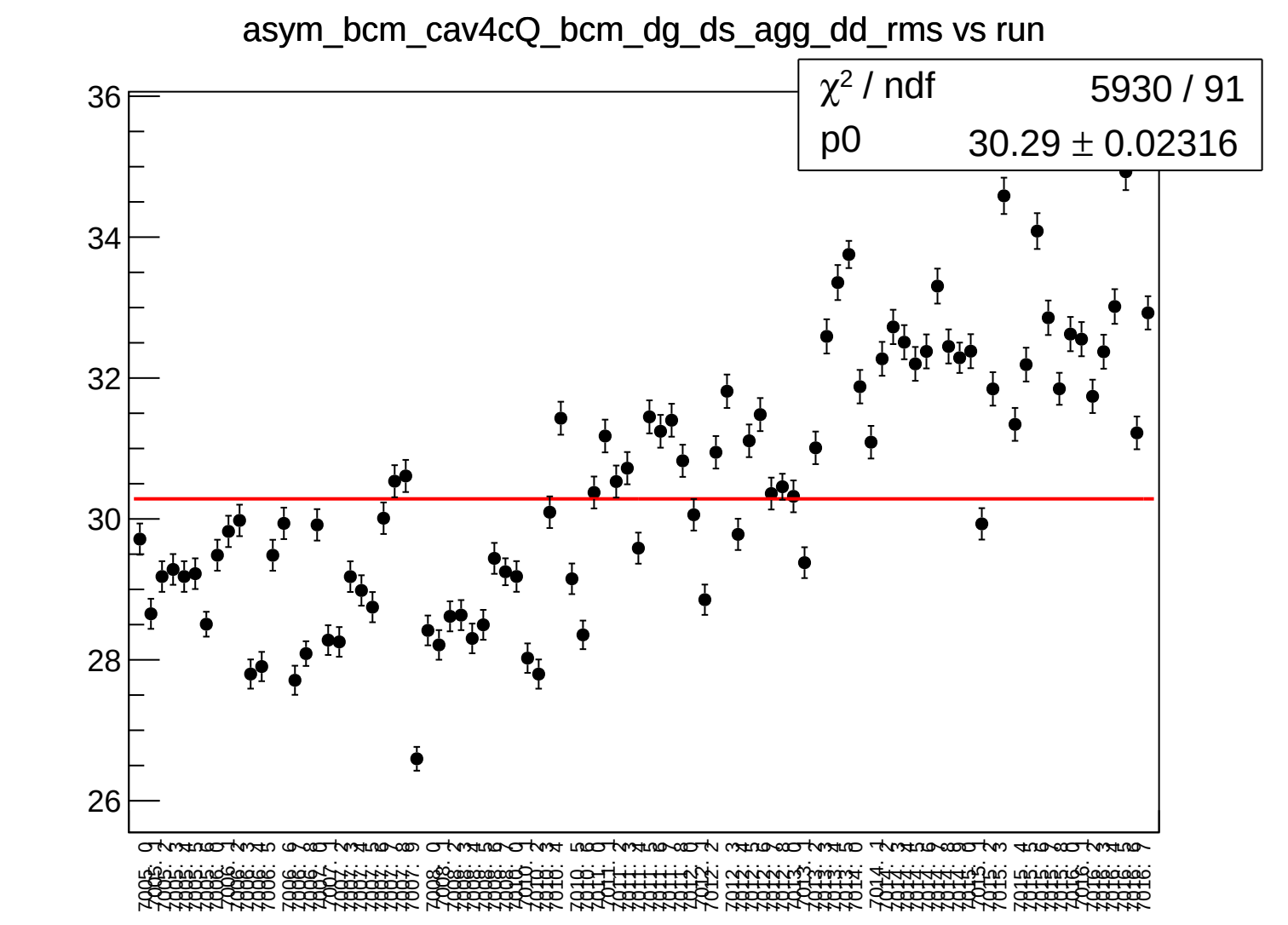

pull1D
Entries 92
Mean −0.009588
Std Dev 0.9924

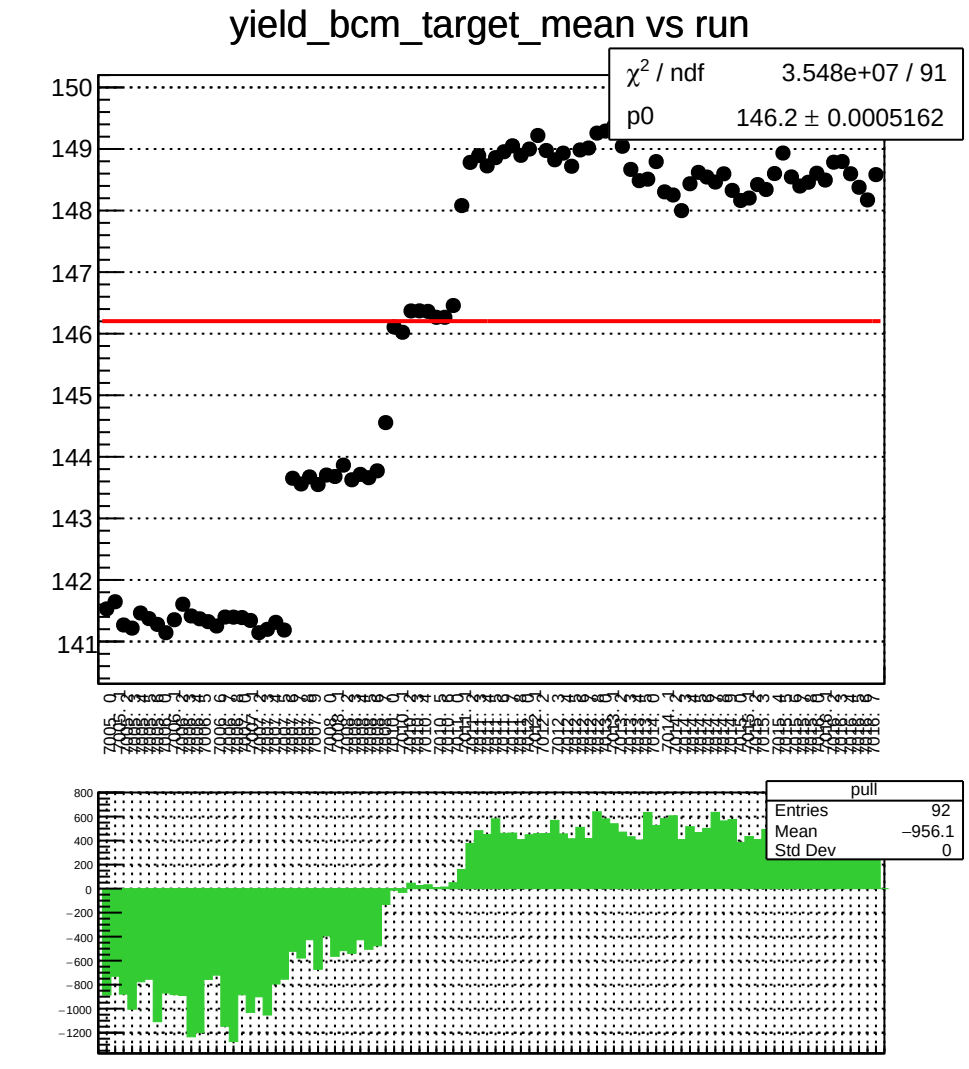

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3102 / 91
p0 34.18 ± 0.02612
39
38
37
36
35
34
33
32
31

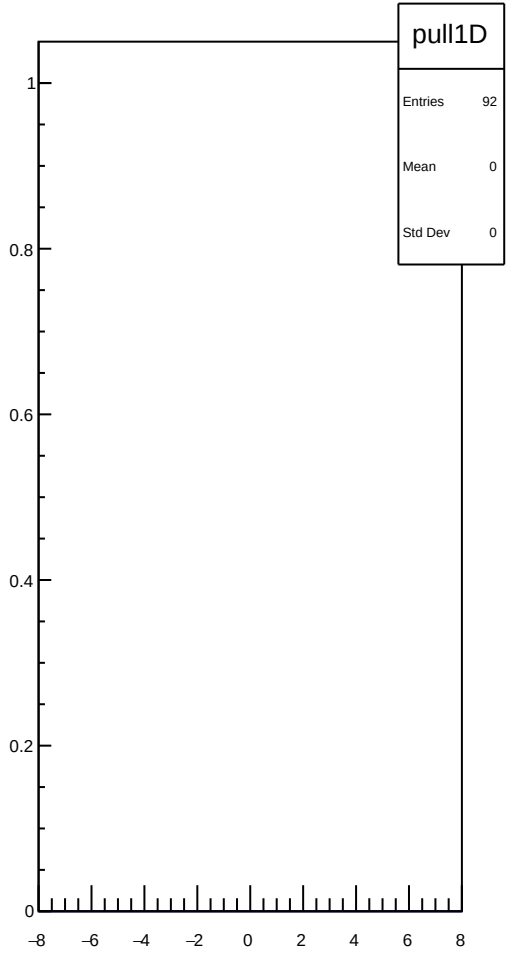

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 22.42 / 91
p0 17.61 ± 214.6
pull
Entries 92
Mean −1.001
Std Dev 23.98
pull1D
Entries 92
Mean −0.005102
Std Dev 0.4936

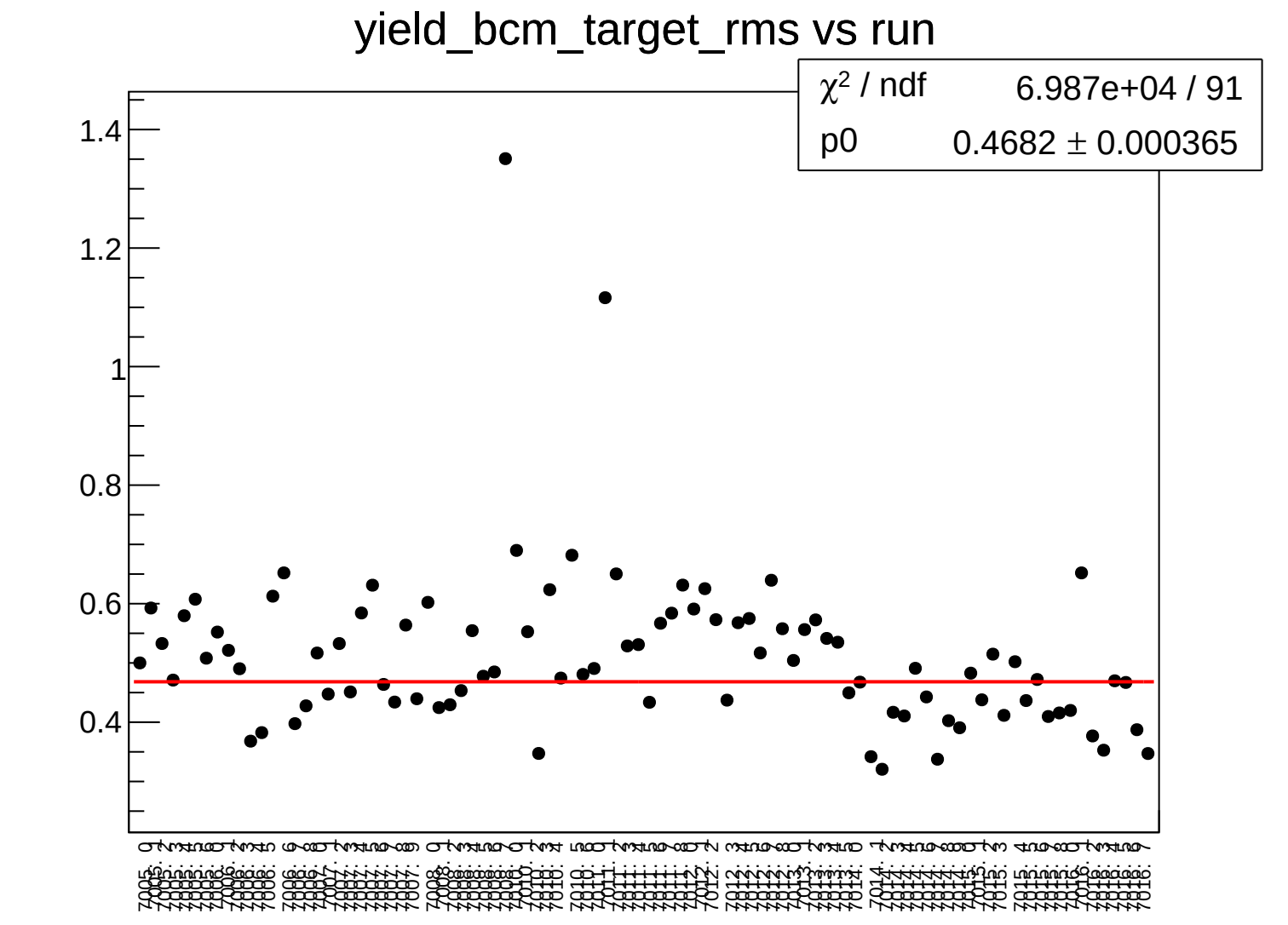

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.053e+05 / 91
p0 186.4 ± 0.1517
400
350
300
250
200
150
100

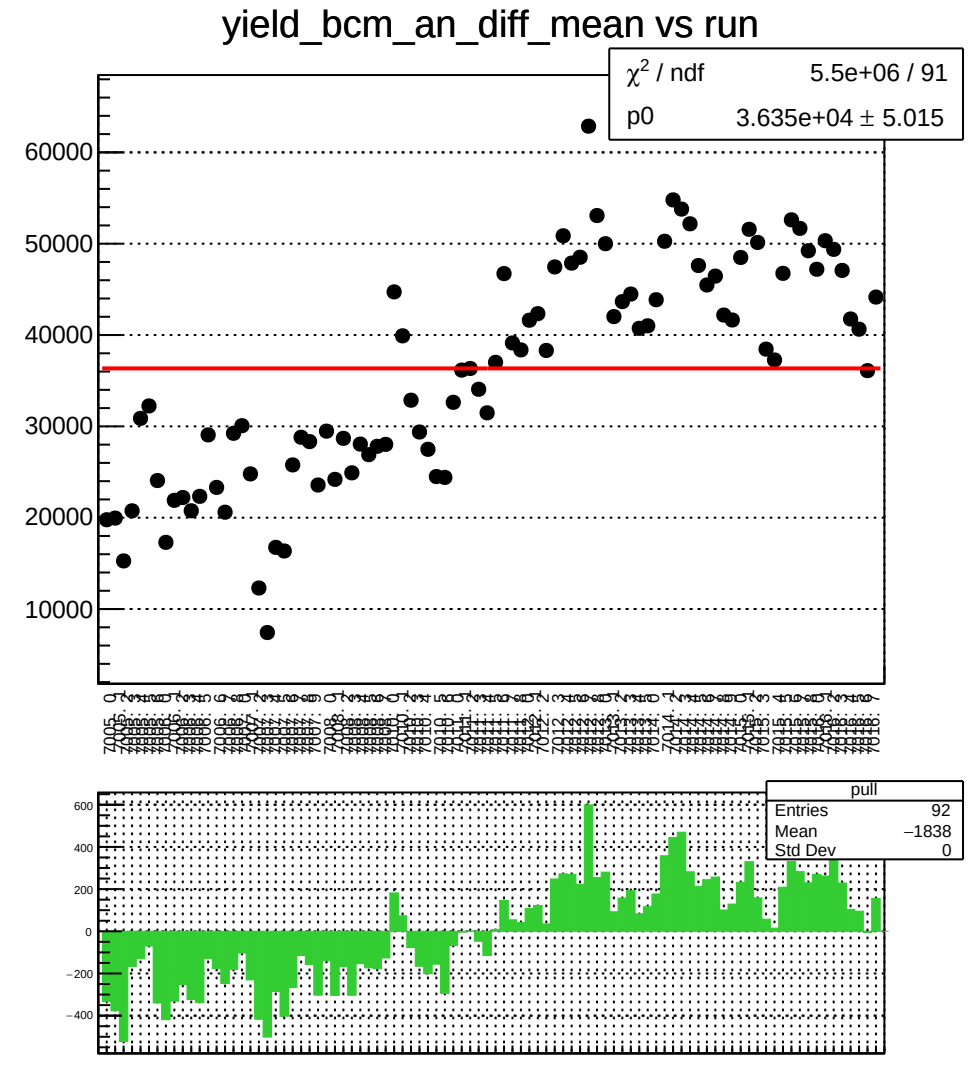

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 90.09 / 91
p0 −16.96 ± 32.76
1000
500
0
−500
−1000
pull
Entries 92
Mean 192.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.007495
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

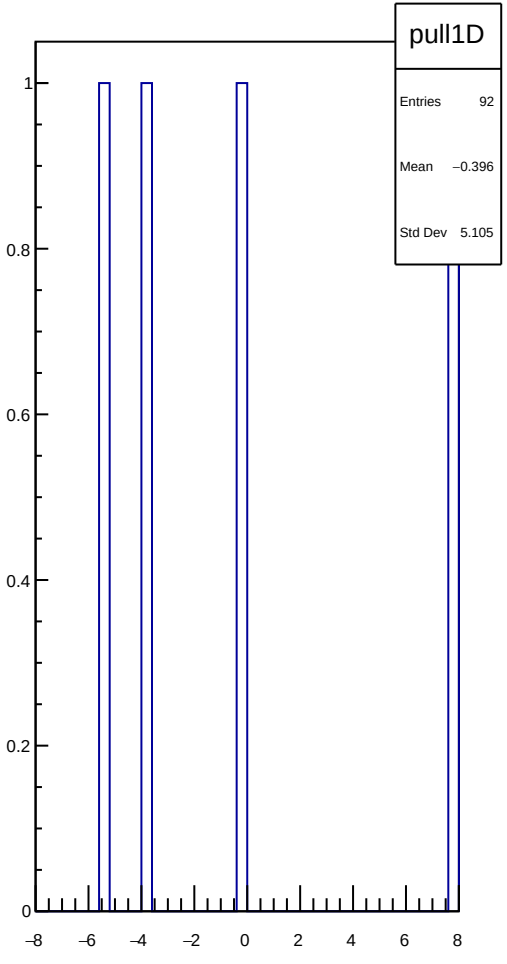

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5930 / 91
p0 30.29 ± 0.02316
36
34
32
30
28
26

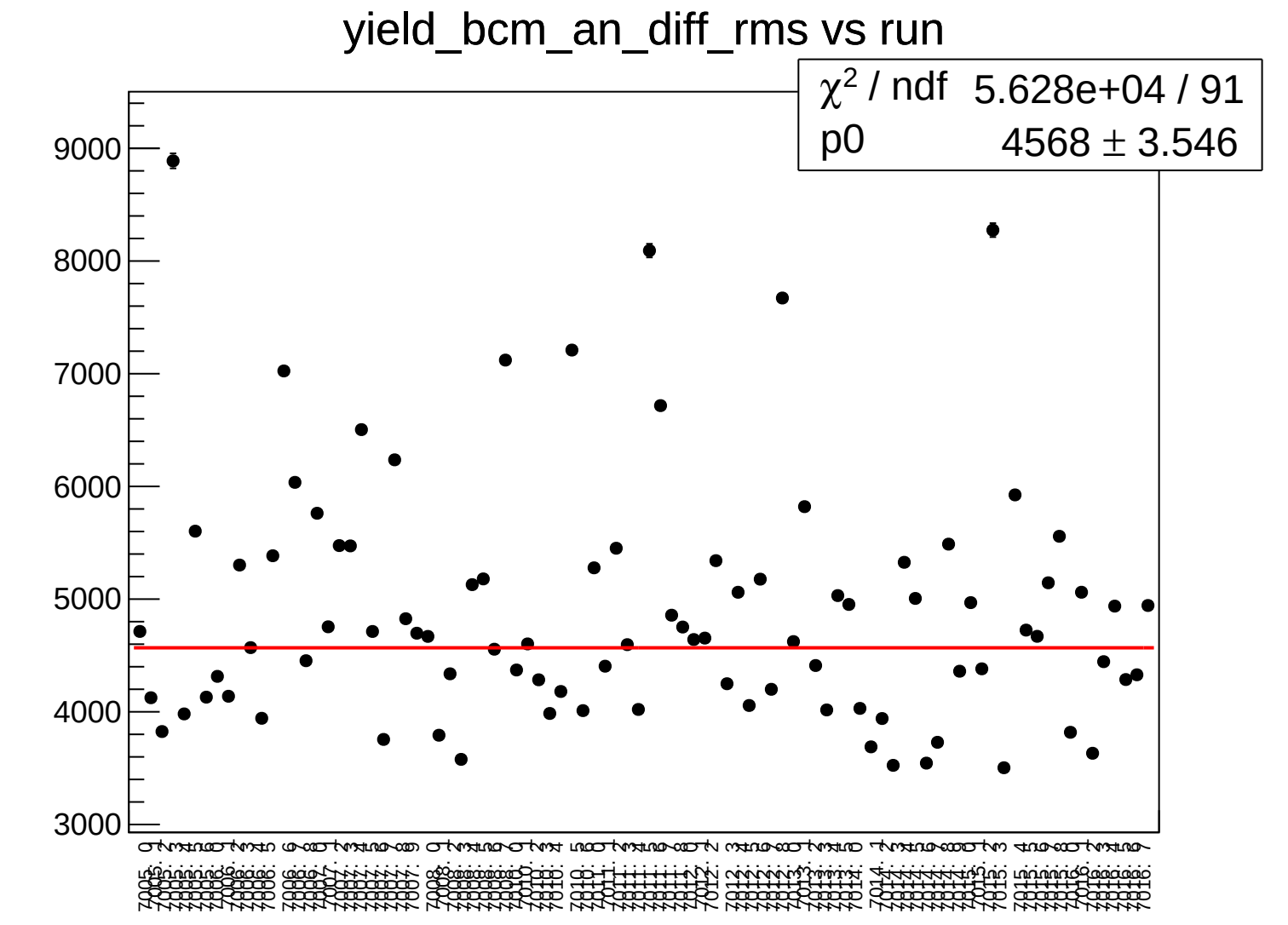

yield_bcm_target_mean vs run
χ² / ndf 3.548e+07 / 91
p0 146.2 ± 0.0005162
150
149
148
147
146
145
144
143
142
141
pull
Entries 92
Mean −956.1
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

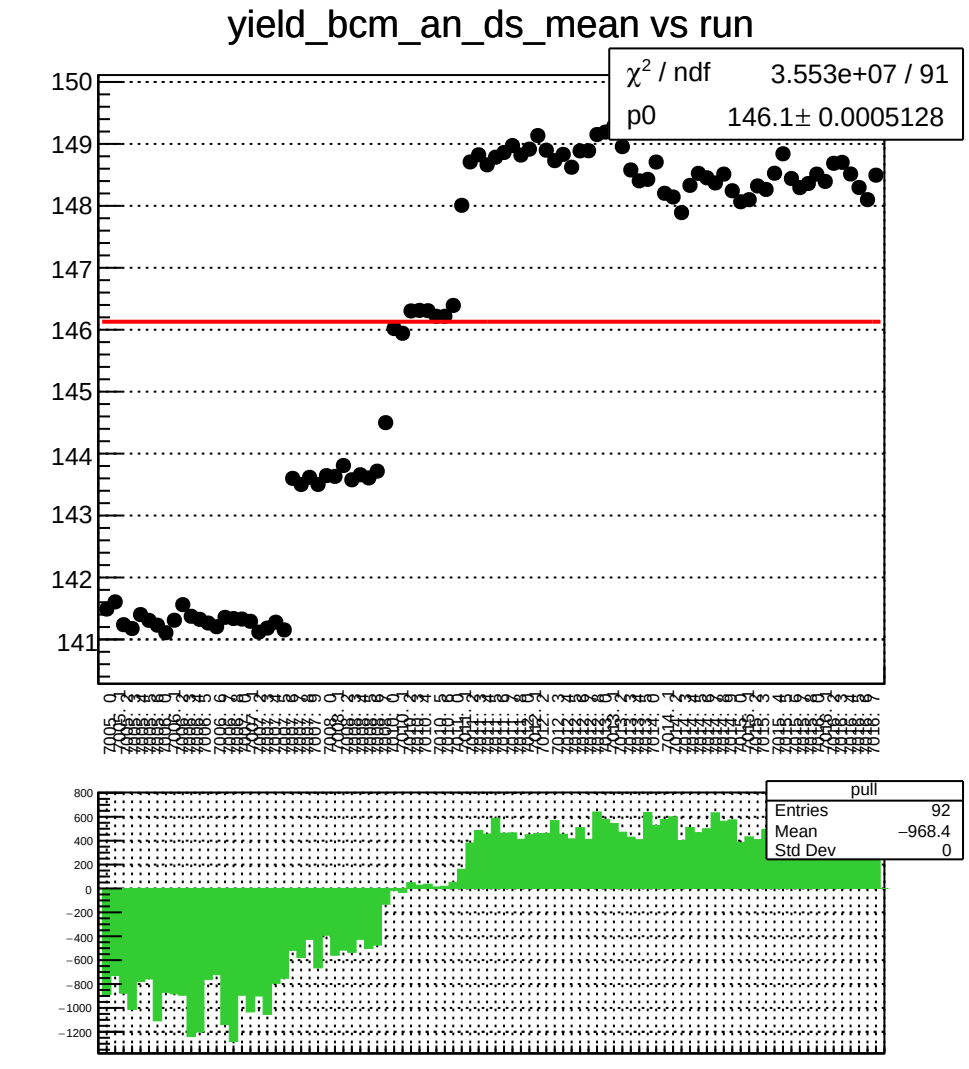

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

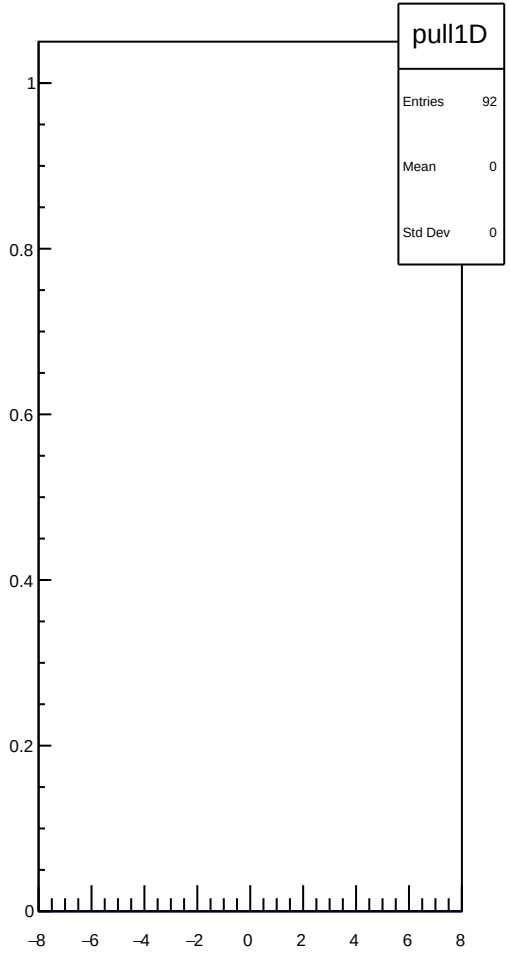

yield_bcm_target_rms vs run
χ² / ndf 6.987e+04 / 91
p0 0.4682 ± 0.000365
1.4
1.2
1
0.8
0.6
0.4

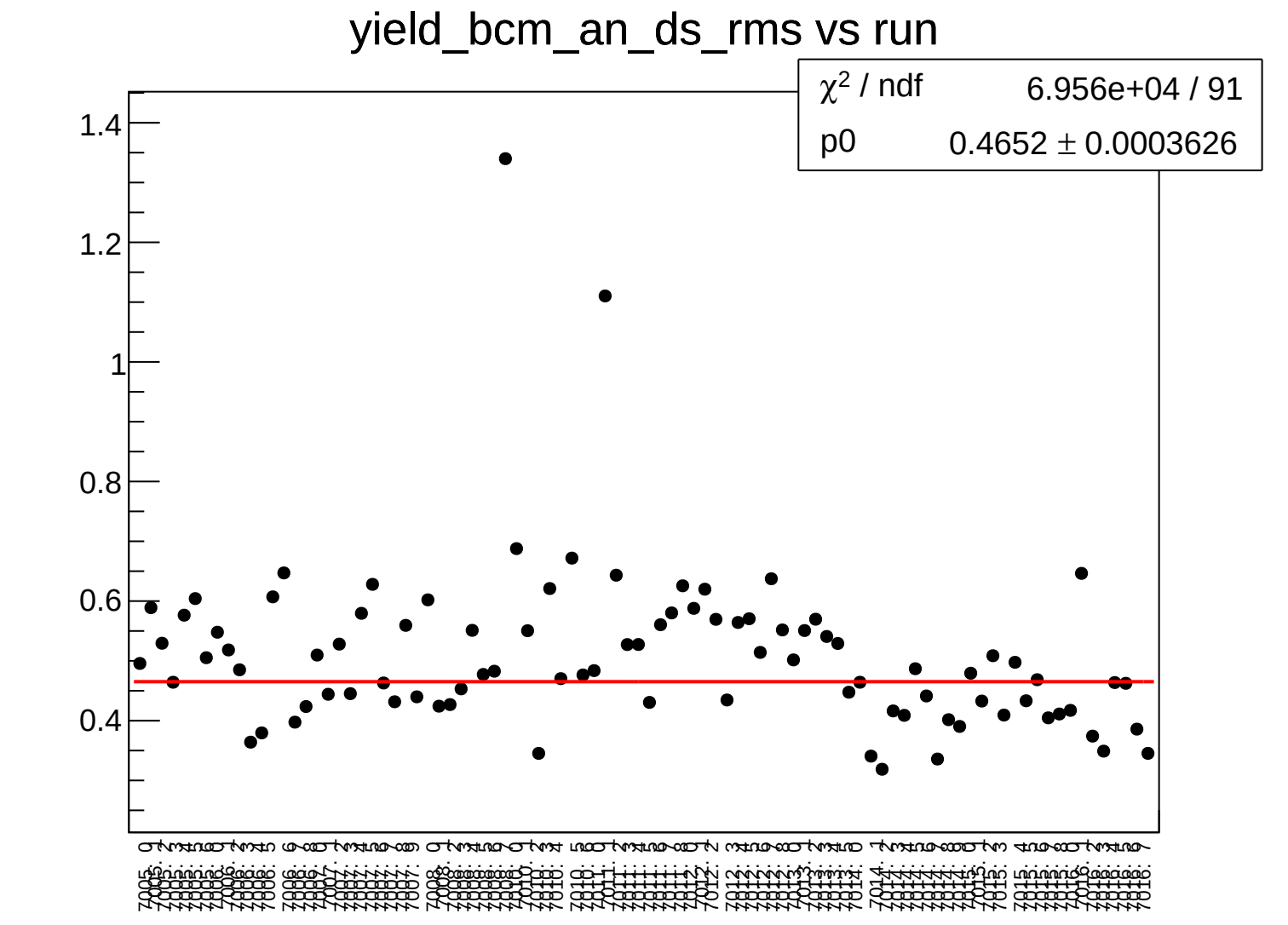

yield_bcm_an_diff_mean vs run
χ² / ndf 5.5e+06 / 91
p0 3.635e+04 ± 5.015
60000
50000
40000
30000
20000
10000
pull
Entries 92
Mean −1838
Std Dev 0
600
400
200
0
−200
−400

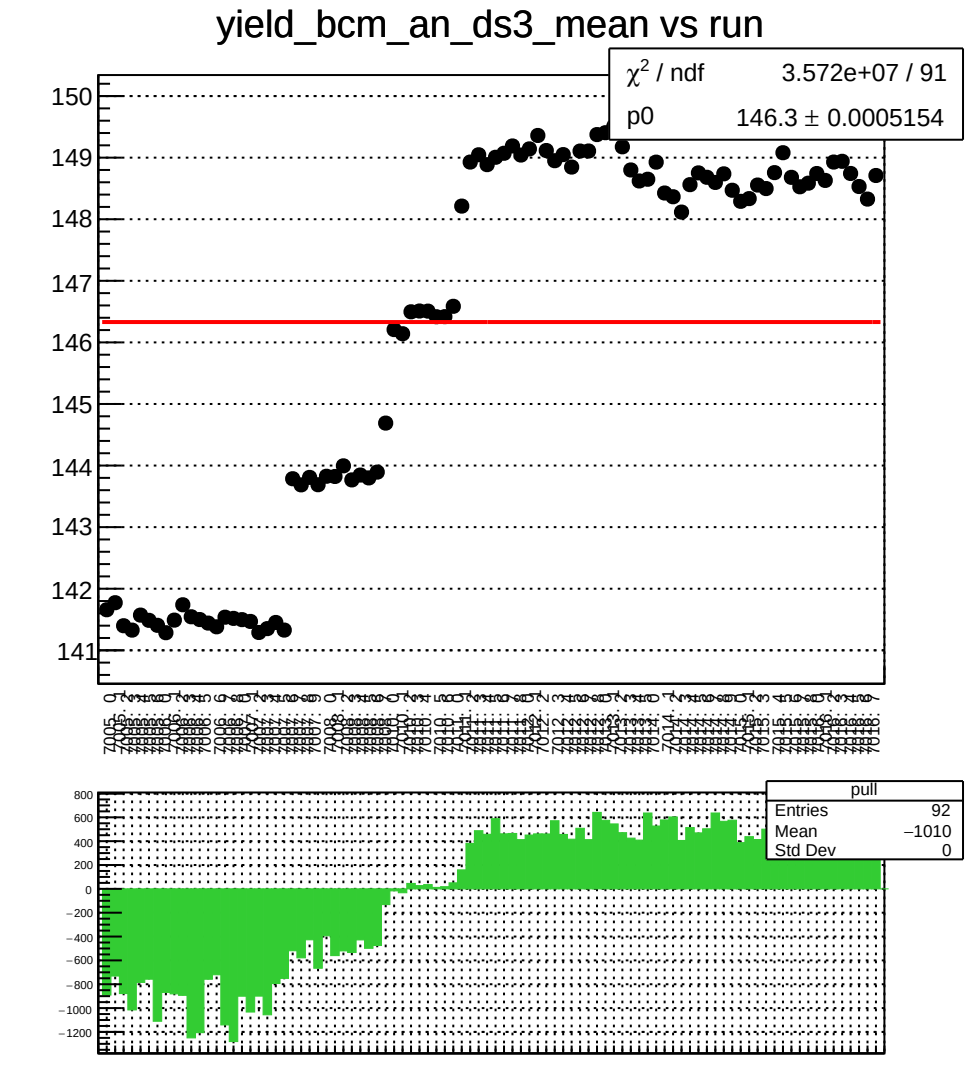

pull1D
Entries 92
Mean −0.396
Std Dev 5.105
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

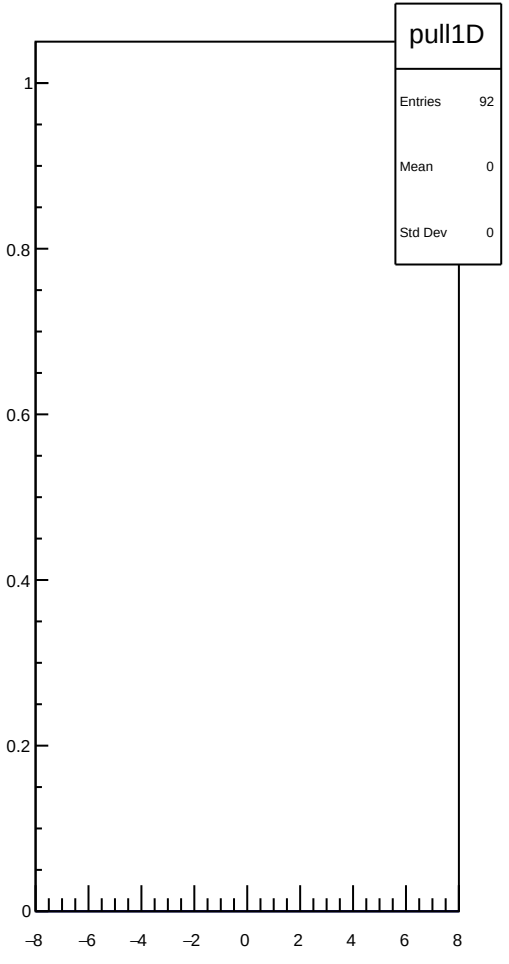

yield_bcm_an_diff_rms vs run
$\chi^2$ / ndf 5.628e+04 / 91
p0 4568 ± 3.546
9000
8000
7000
6000
5000
4000
3000

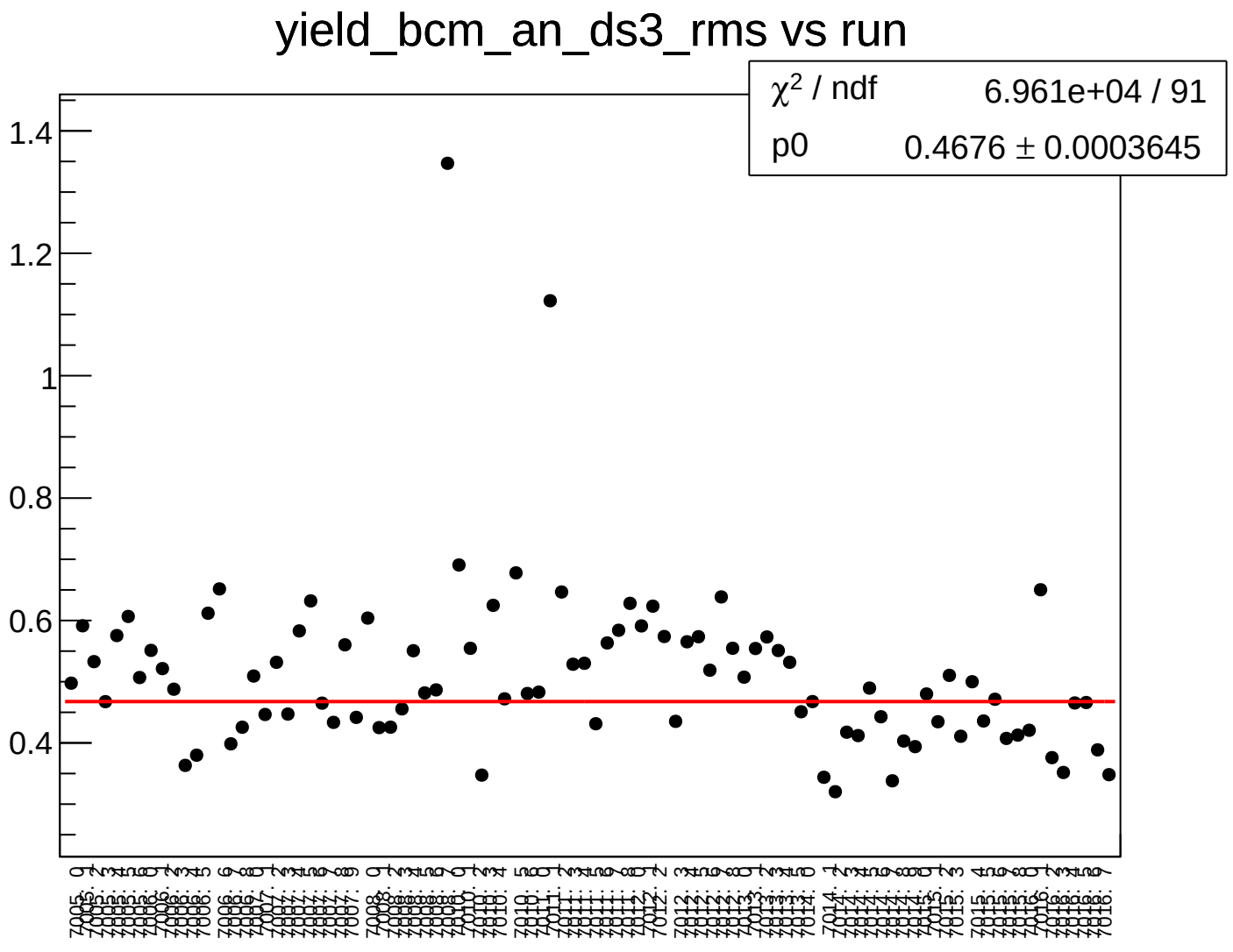

yield_bcm_an_ds_mean vs run
χ² / ndf 3.553e+07 / 91
p0 146.1± 0.0005128
150
149
148
147
146
145
144
143
142
141
pull
Entries 92
Mean −968.4
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

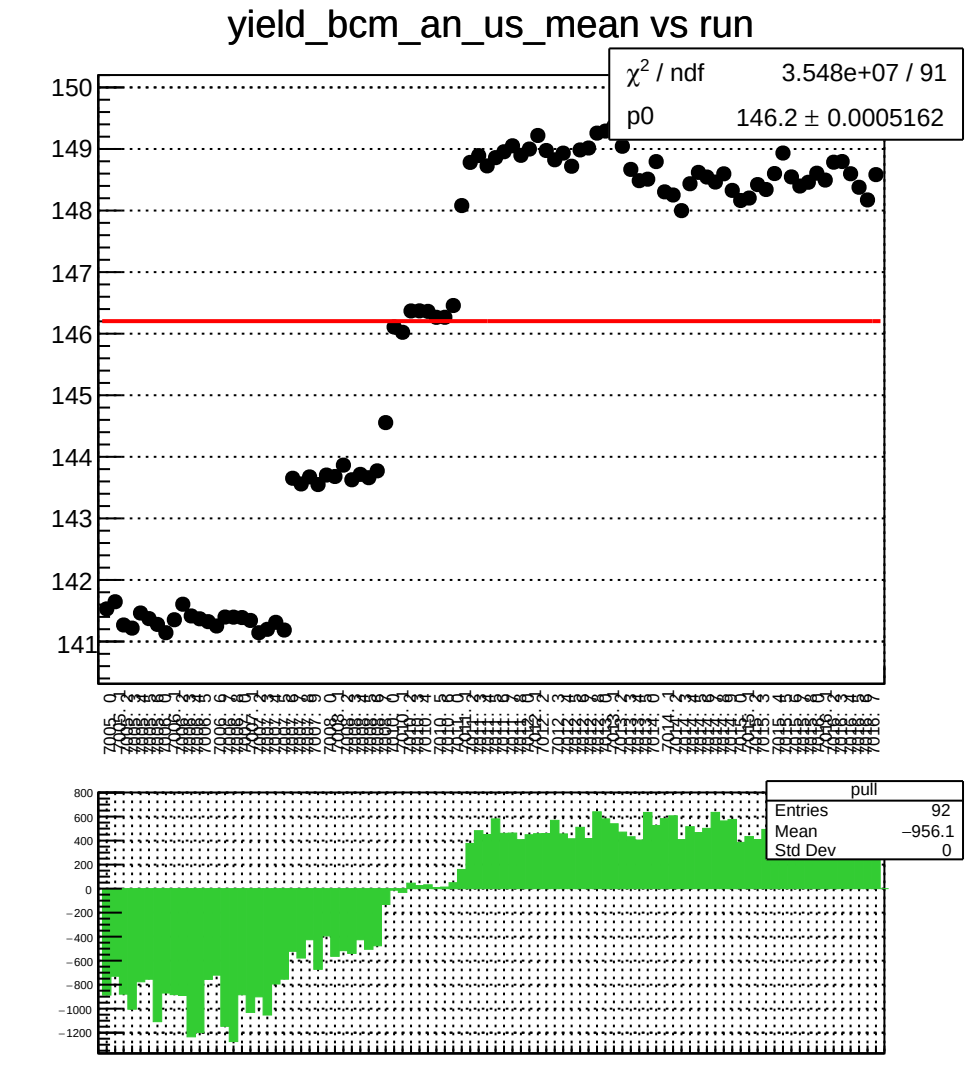

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

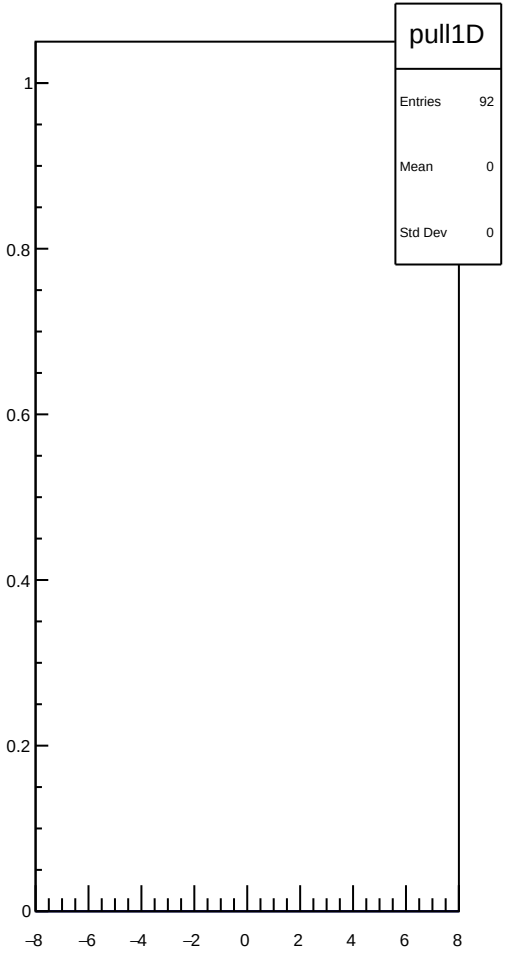

yield_bcm_an_ds_rms vs run
$\chi^2$ / ndf 6.956e+04 / 91
p0 0.4652 ± 0.0003626
1.4
1.2
1
0.8
0.6
0.4

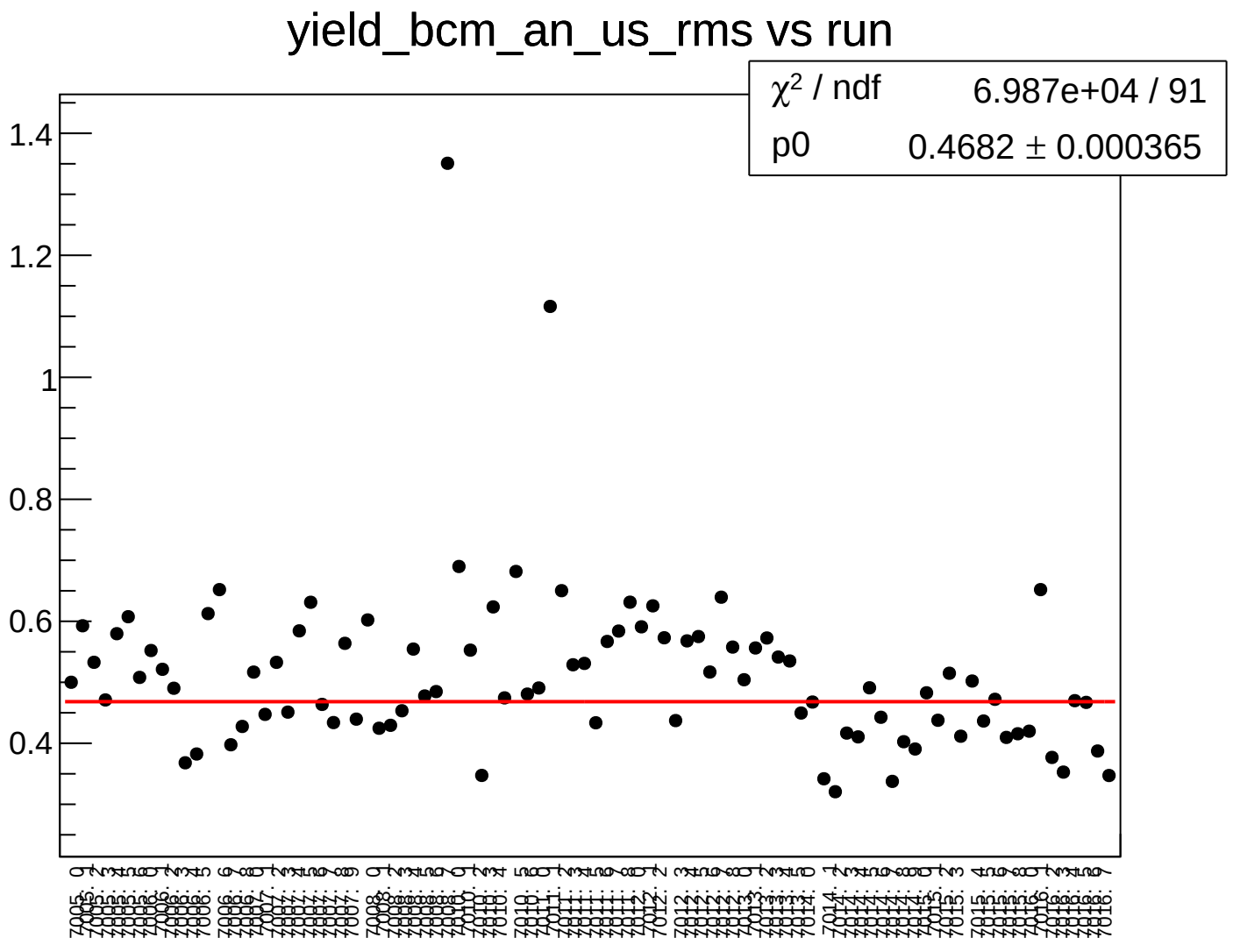

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.572e+07 / 91
p0 146.3 ± 0.0005154
150
149
148
147
146
145
144
143
142
141
pull
Entries 92
Mean −1010
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

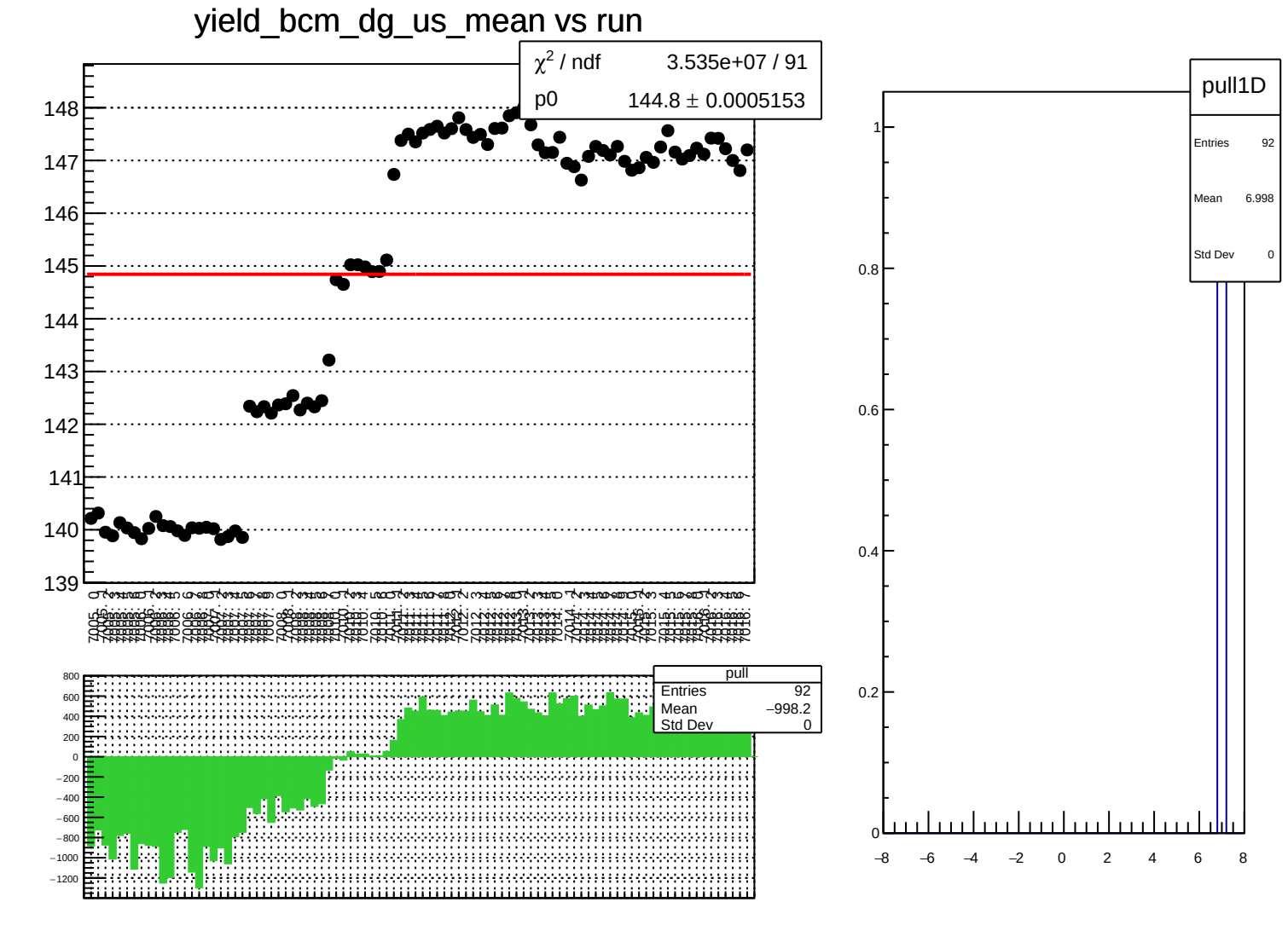

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

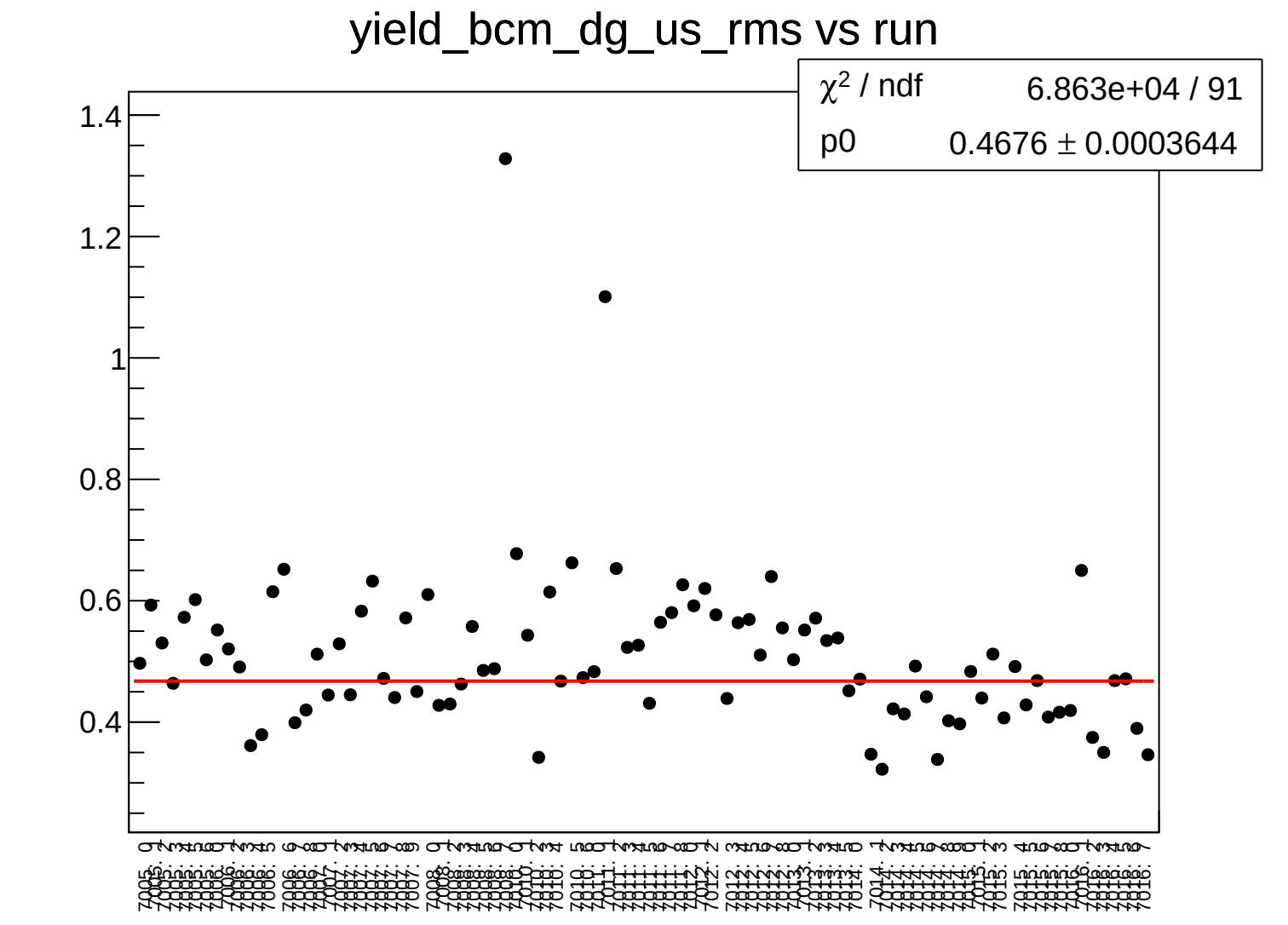

yield_bcm_an_ds3_rms vs run
χ² / ndf 6.961e+04 / 91
p0 0.4676 ± 0.0003645
1.4
1.2
1
0.8
0.6
0.4

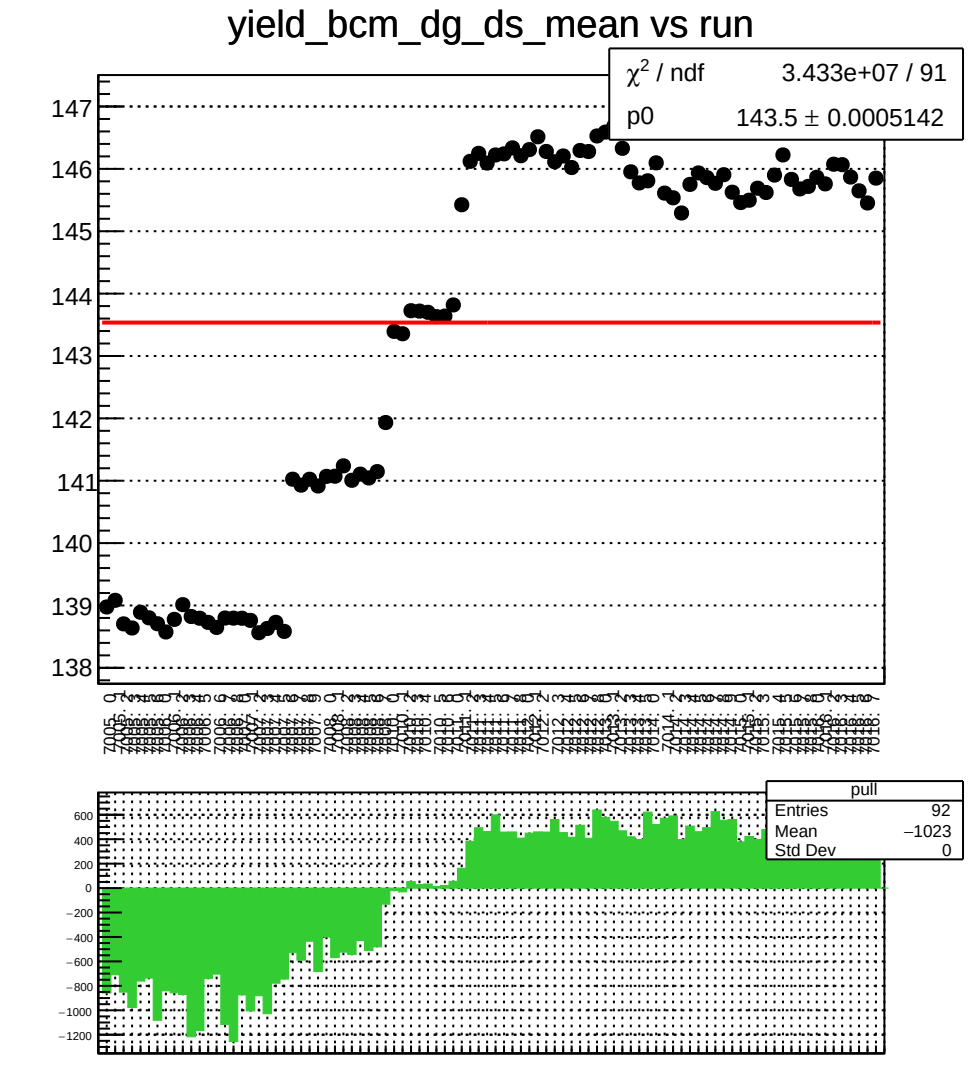

yield_bcm_an_us_mean vs run
χ² / ndf 3.548e+07 / 91
p0 146.2 ± 0.0005162
150
149
148
147
146
145
144
143
142
141
pull
Entries 92
Mean −956.1
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

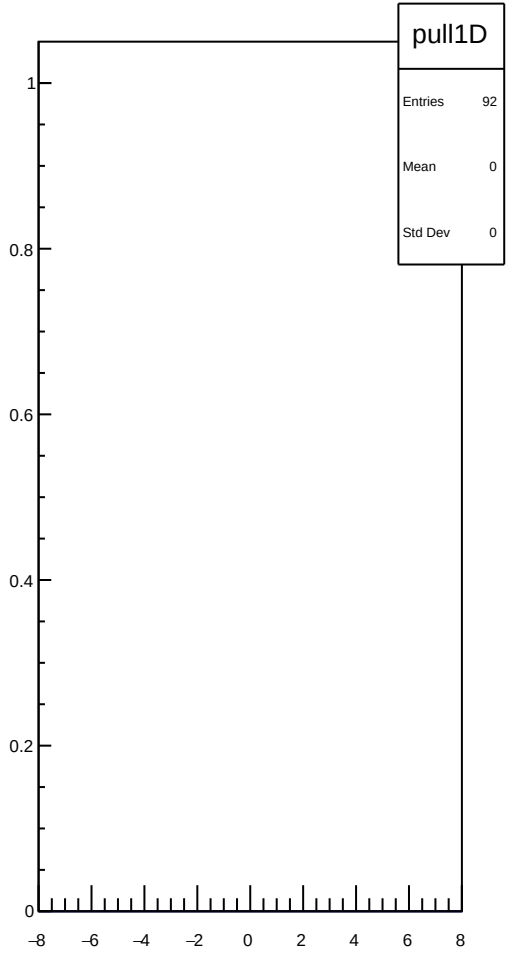

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

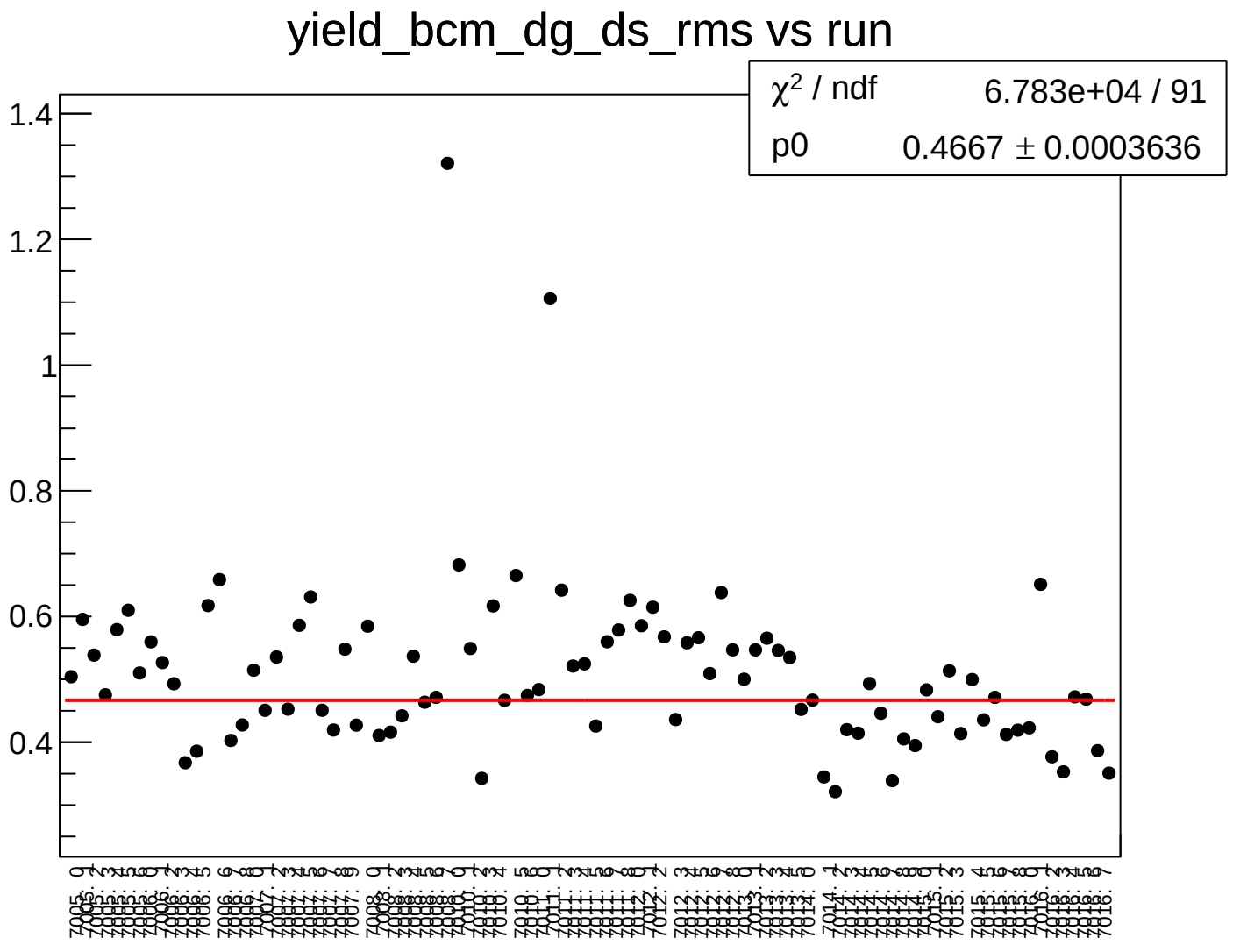

yield_bcm_an_us_rms vs run
χ² / ndf 6.987e+04 / 91
p0 0.4682 ± 0.000365
1.4
1.2
1
0.8
0.6
0.4

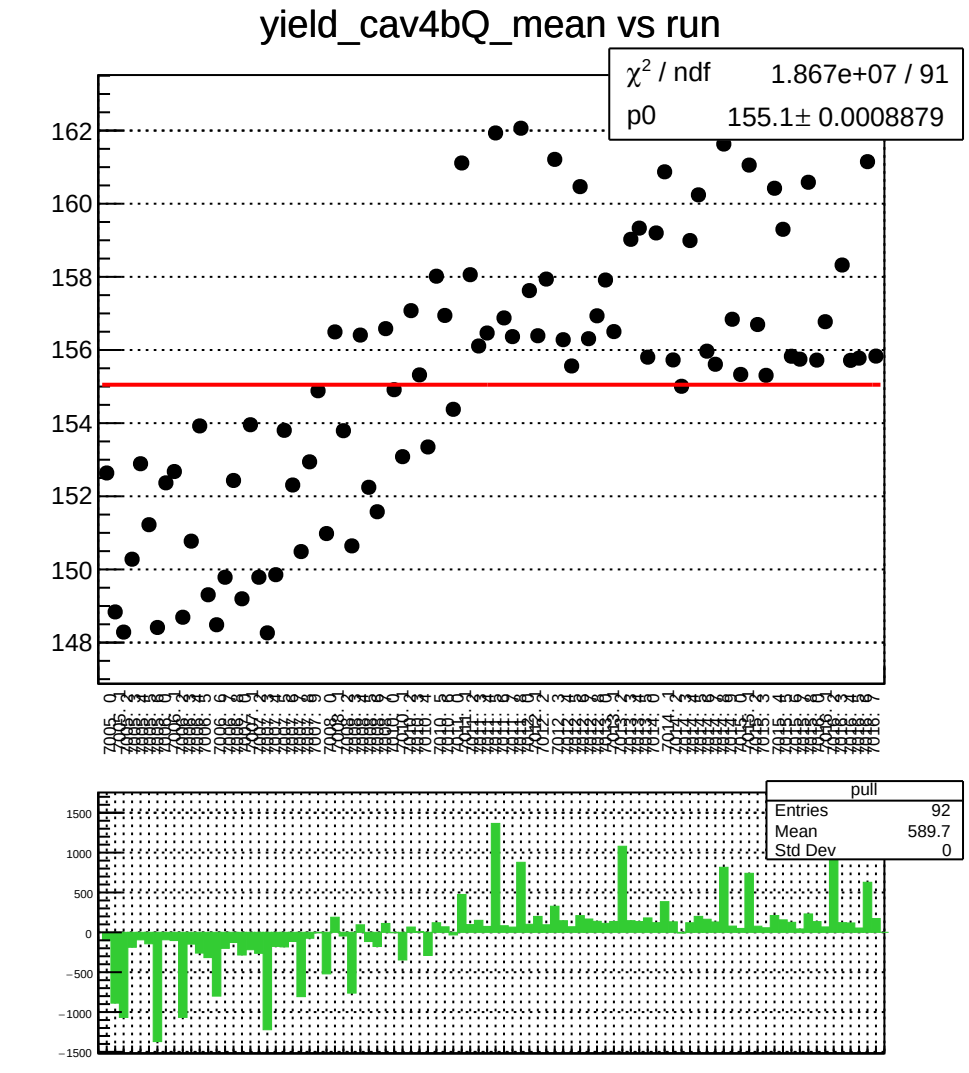

yield_bcm_dg_us_mean vs run
χ² / ndf 3.535e+07 / 91
p0 144.8 ± 0.0005153
148
147
146
145
144
143
142
141
140
139
pull
Entries 92
Mean −998.2
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 92
Mean 6.998
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

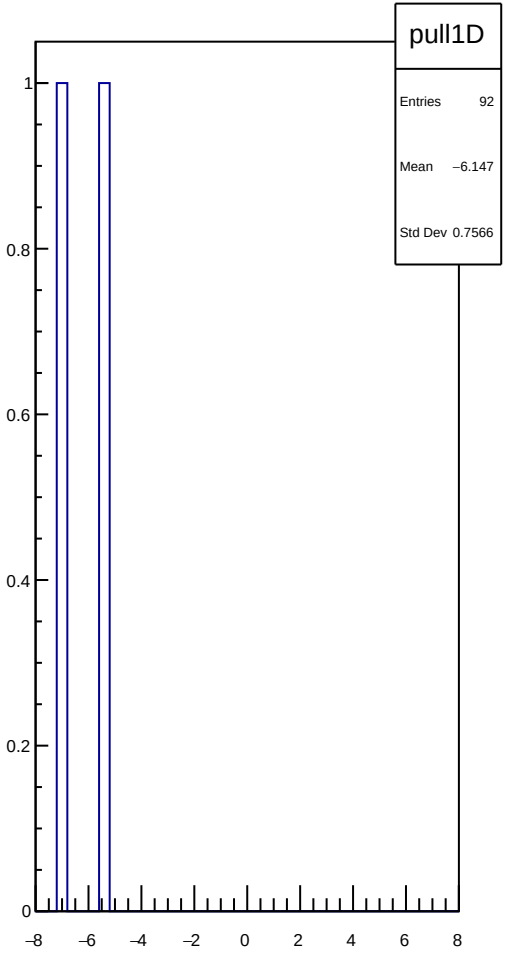

yield_bcm_dg_us_rms vs run
χ² / ndf 6.863e+04 / 91
p0 0.4676 ± 0.0003644
1.4
1.2
1
0.8
0.6
0.4

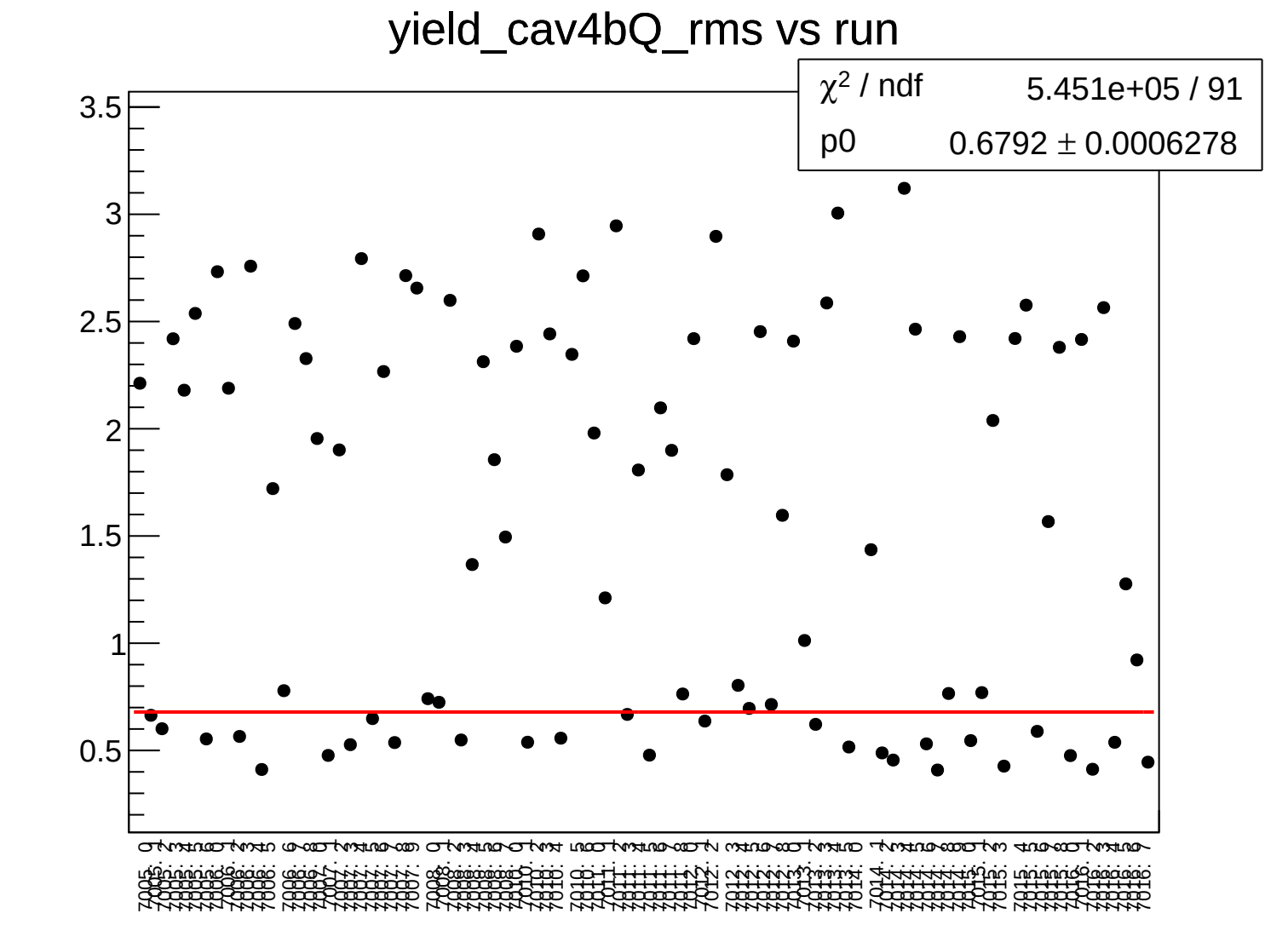

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.433e+07 / 91
p0 143.5 ± 0.0005142
147
146
145
144
143
142
141
140
139
138
pull
Entries 92
Mean −1023
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

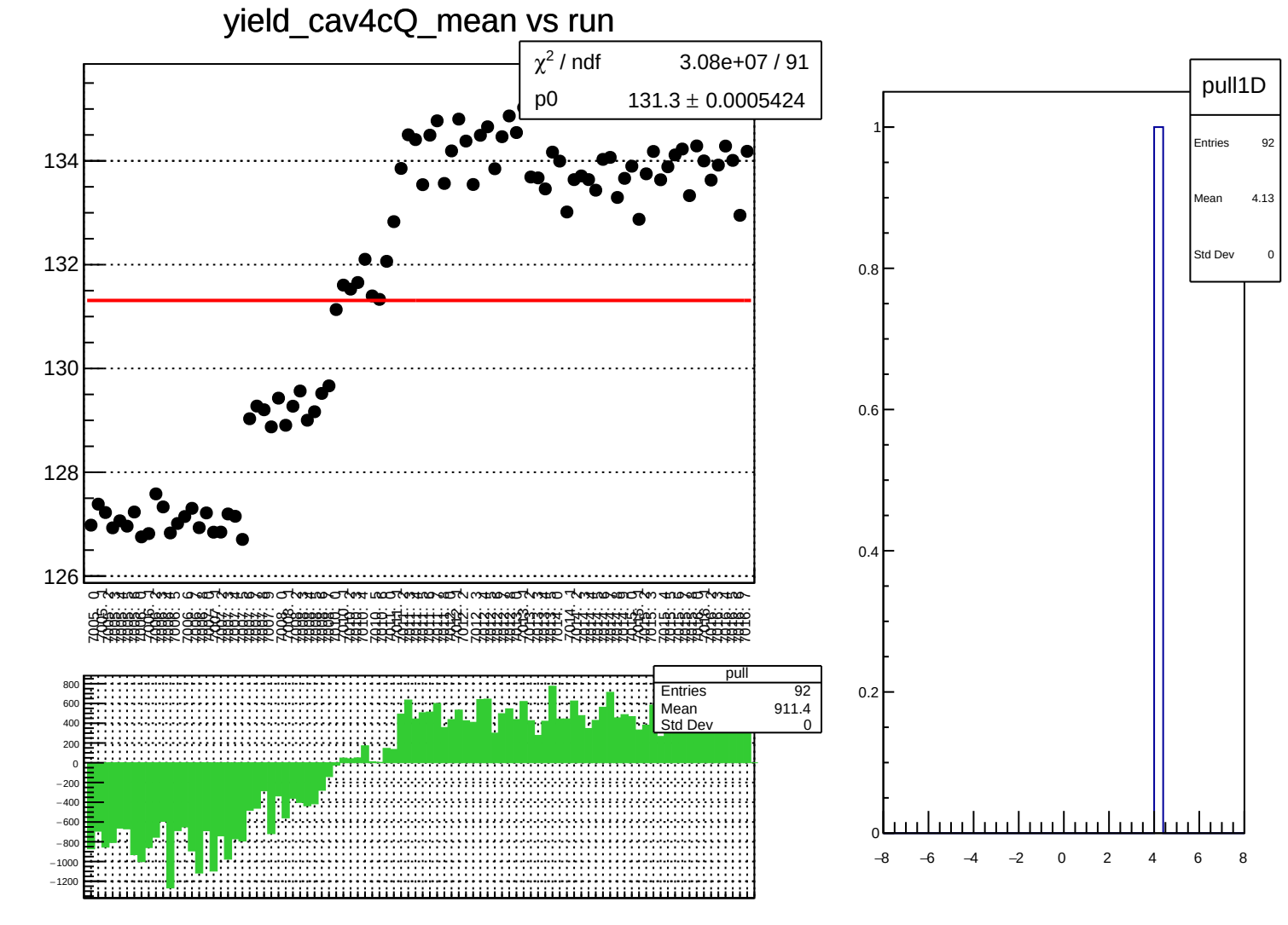

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

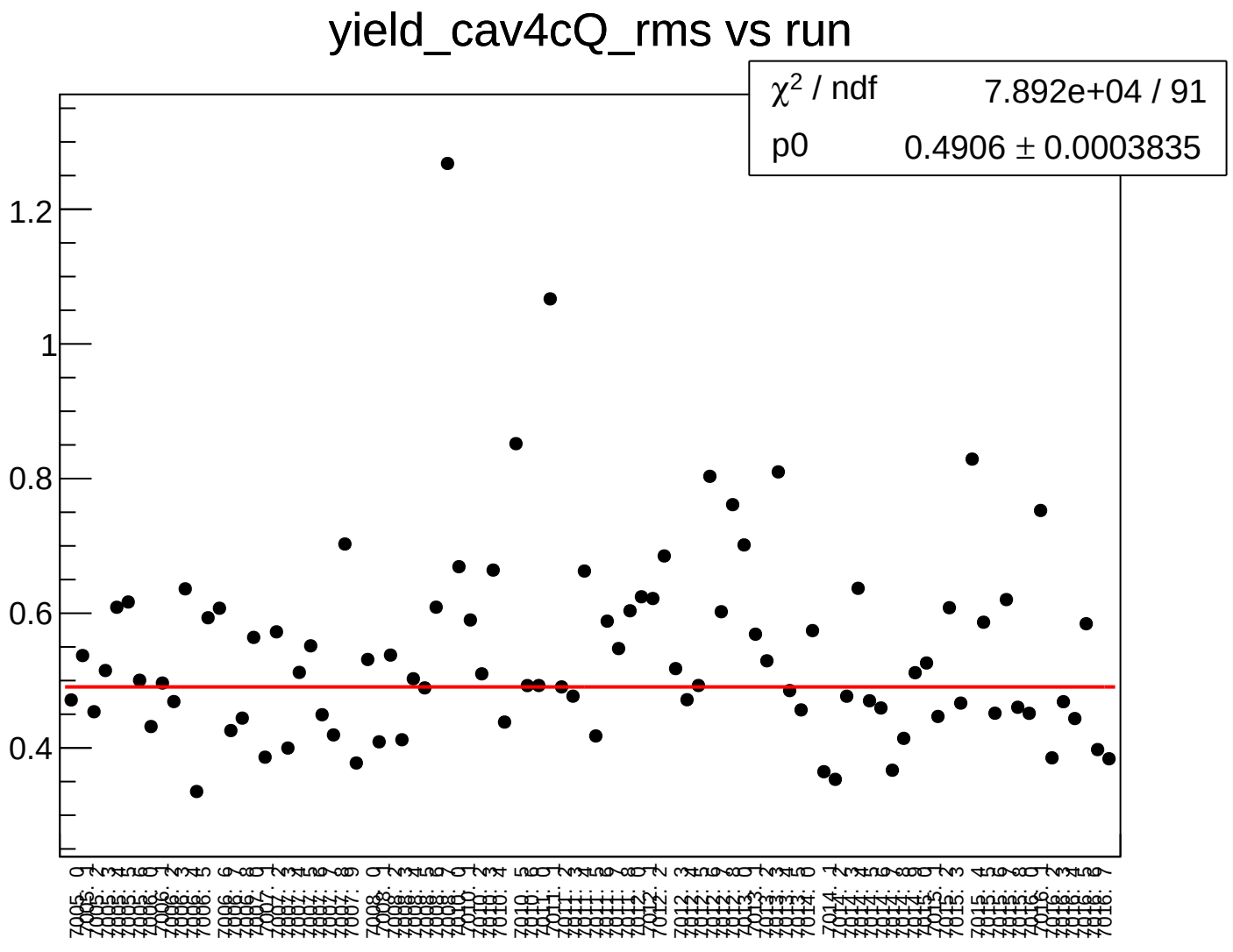

yield_bcm_dg_ds_rms vs run
χ² / ndf 6.783e+04 / 91
p0 0.4667 ± 0.0003636
1.4
1.2
1
0.8
0.6
0.4

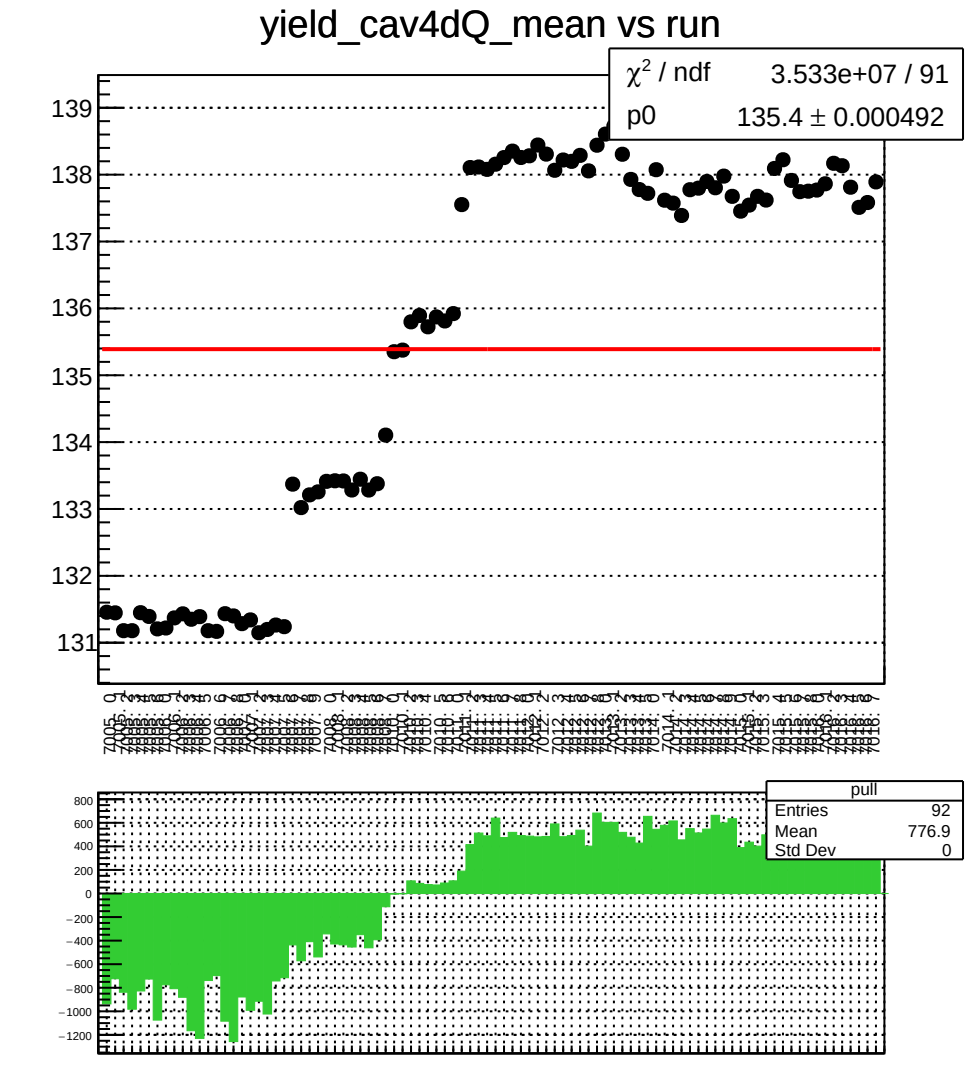

yield_cav4bQ_mean vs run
χ² / ndf 1.867e+07 / 91
p0 155.1± 0.0008879
pull
Entries 92
Mean 589.7
Std Dev 0

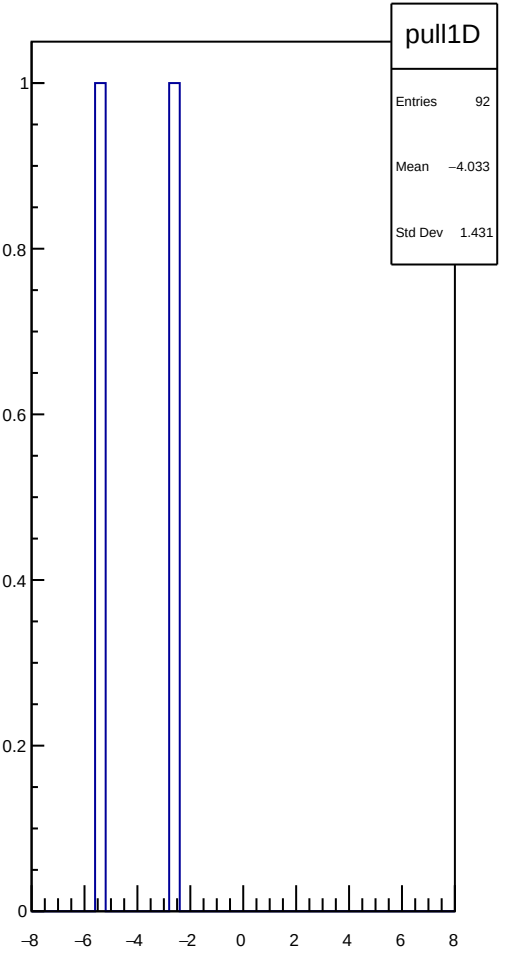

pull1D
Entries 92
Mean −6.147
Std Dev 0.7566

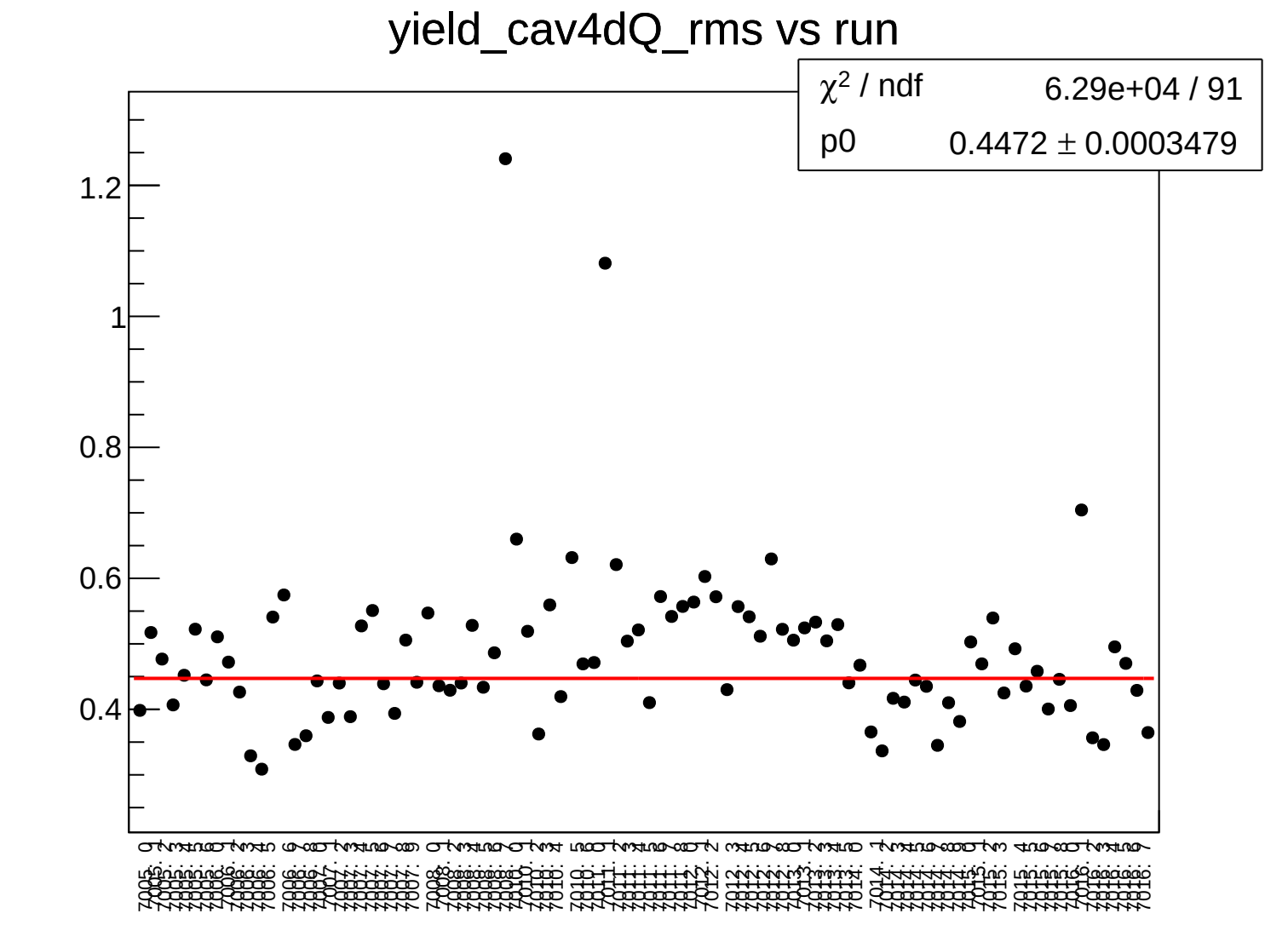

yield_cav4bQ_rms vs run
χ2 / ndf 5.451e+05 / 91
p0 0.6792 ± 0.0006278
3.5
3
2.5
2
1.5
1
0.5

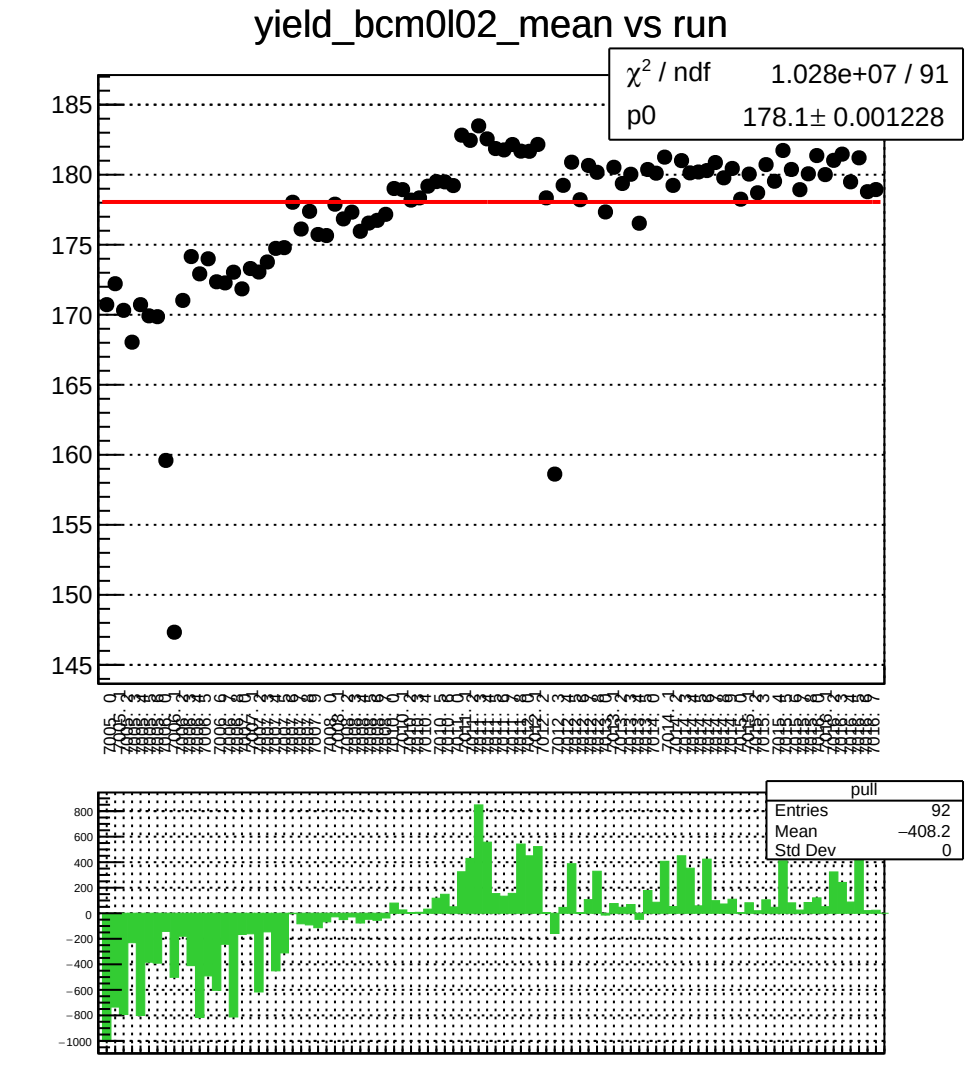

yield_cav4cQ_mean vs run
χ² / ndf 3.08e+07 / 91
p0 131.3 ± 0.0005424
134
132
130
128
126
pull
Entries 92
Mean 911.4
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 92
Mean 4.13
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

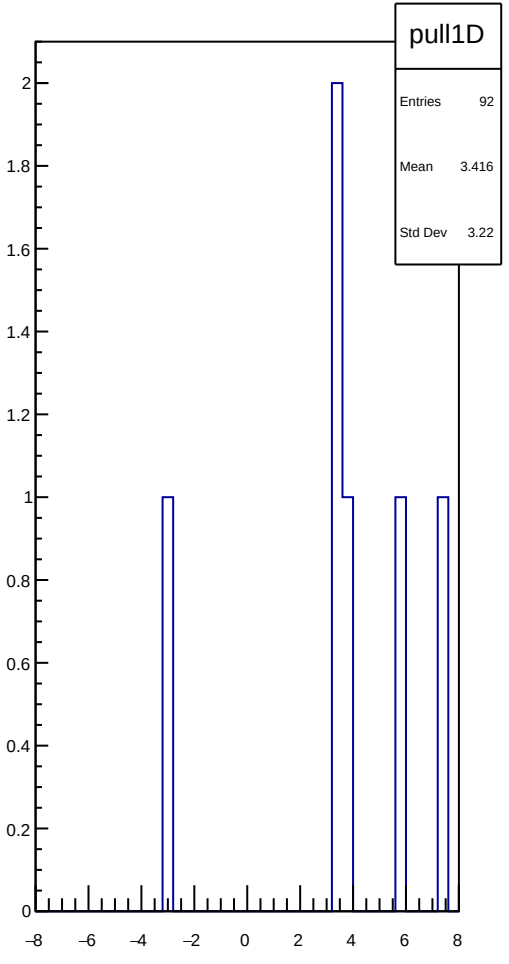

yield_cav4cQ_rms vs run
χ² / ndf 7.892e+04 / 91
p0 0.4906 ± 0.0003835
1.2
1
0.8
0.6
0.4

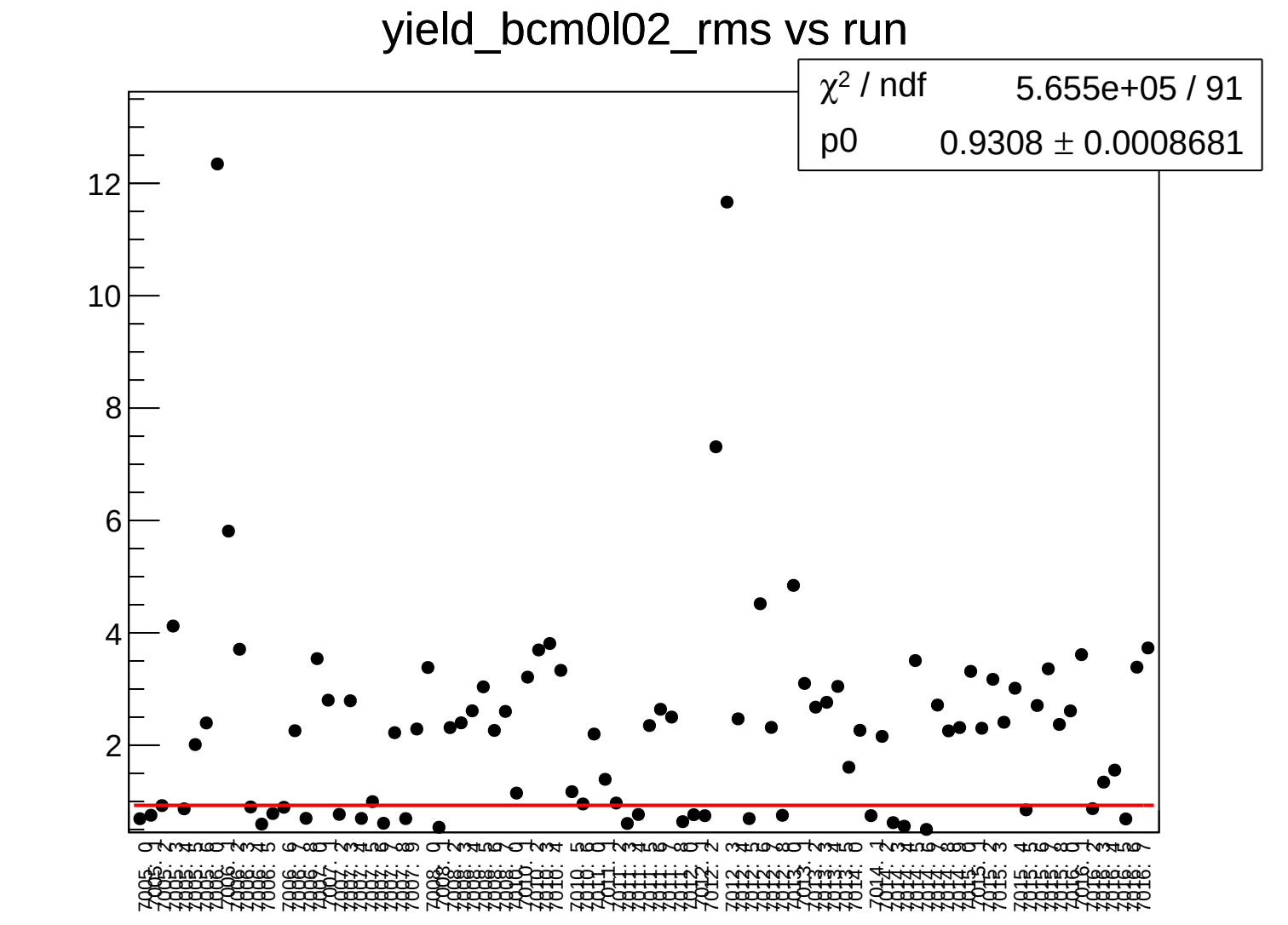

yield_cav4dQ_mean vs run
χ² / ndf 3.533e+07 / 91
p0 135.4 ± 0.000492
pull
Entries 92
Mean 776.9
Std Dev 0

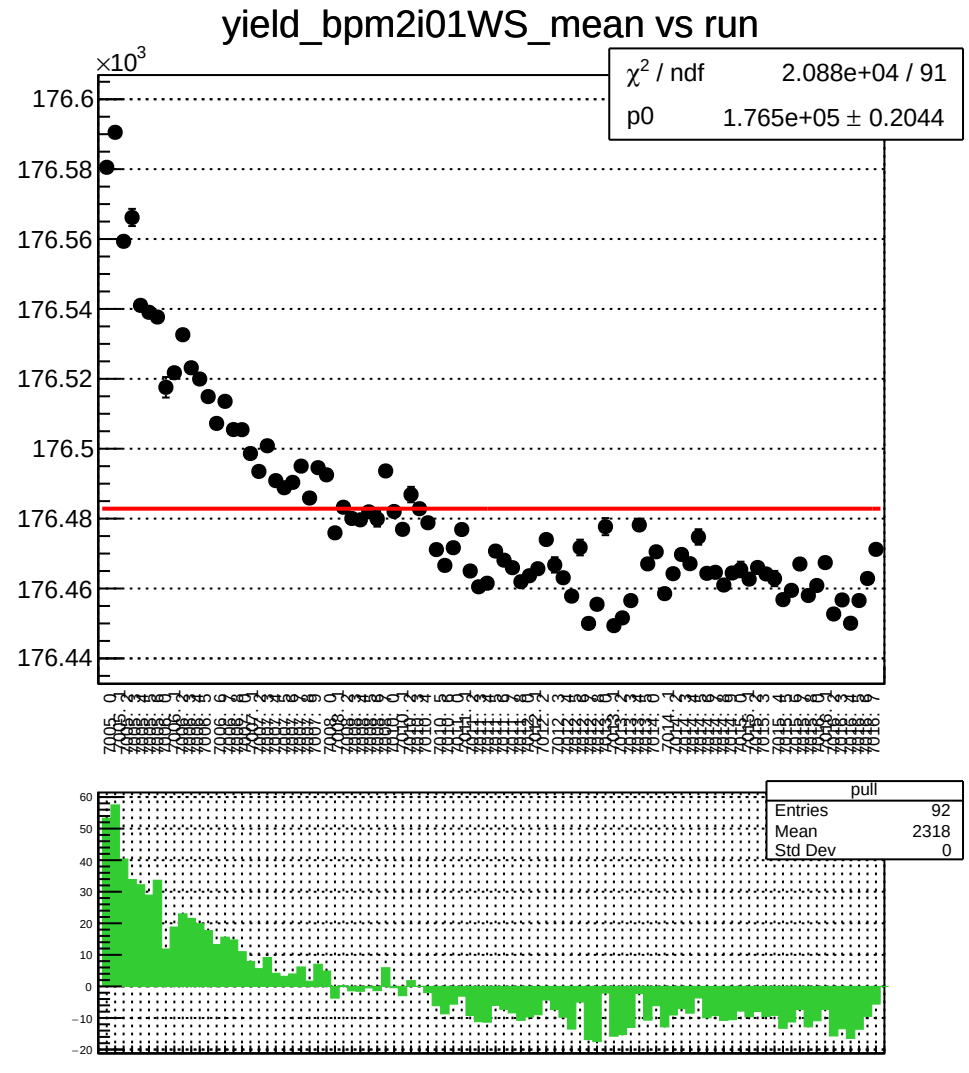

pull1D
Entries 92
Mean −4.033
Std Dev 1.431

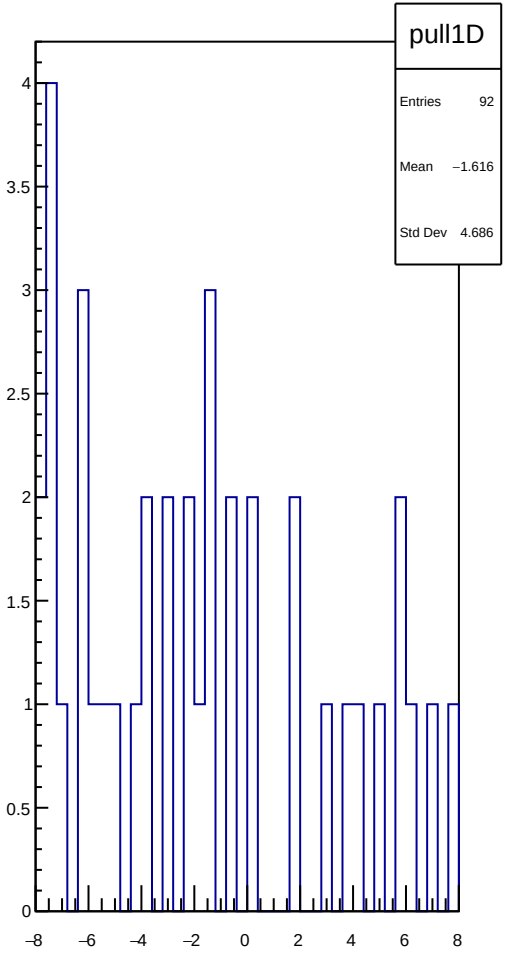

yield_cav4dQ_rms vs run
χ² / ndf 6.29e+04 / 91
p0 0.4472 ± 0.0003479
1.2
1
0.8
0.6
0.4

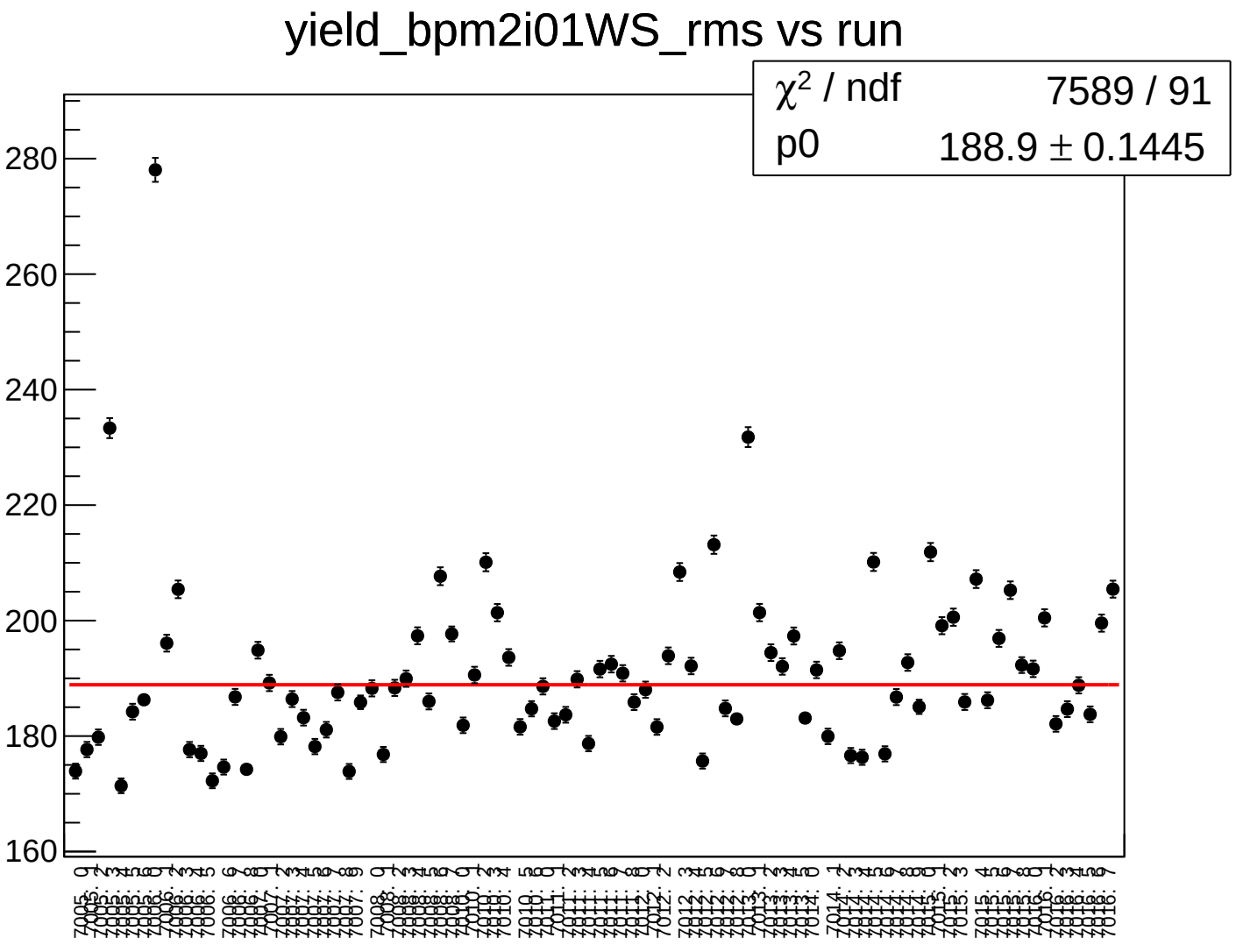

yield_bcm0l02_mean vs run
χ² / ndf 1.028e+07 / 91
p0 178.1± 0.001228
185
180
175
170
165
160
155
150
145
pull
Entries 92
Mean −408.2
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

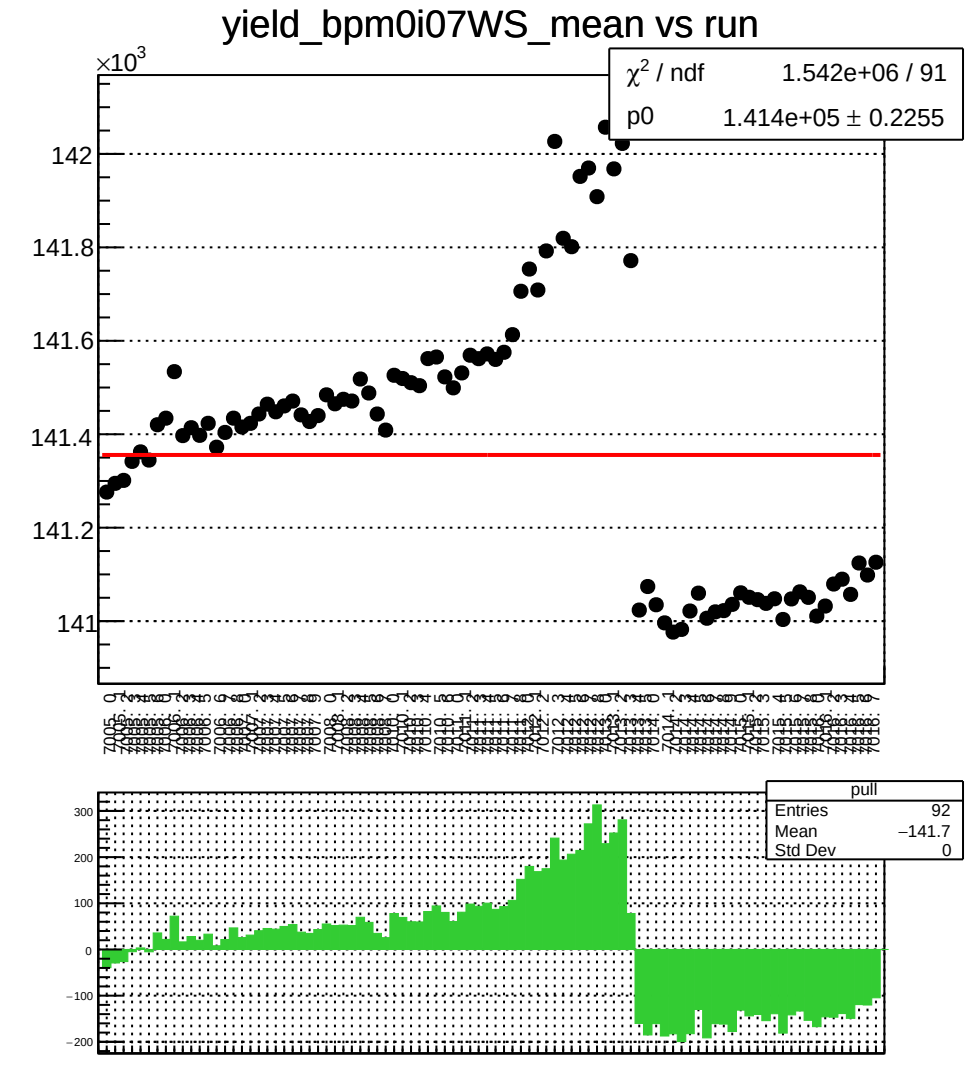

pull1D
Entries 92
Mean 3.416
Std Dev 3.22
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

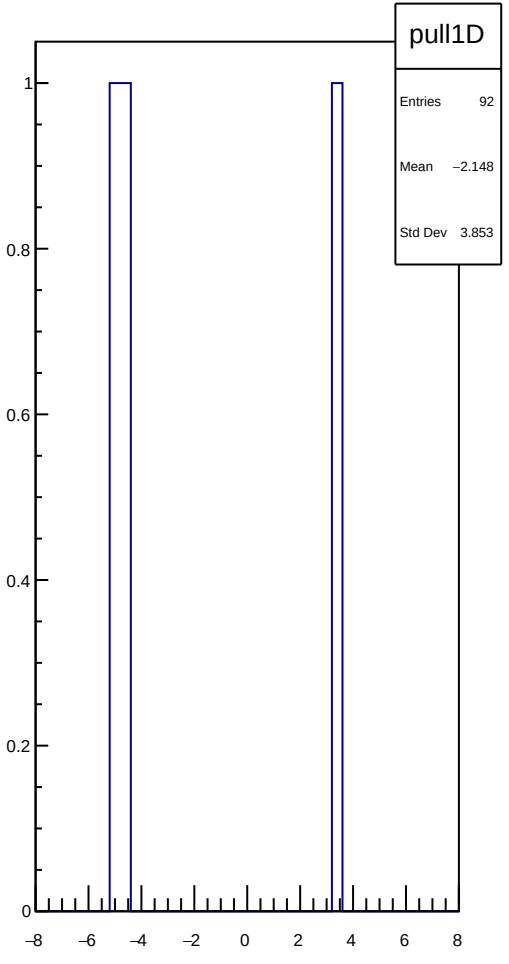

yield_bcm0l02_rms vs run
χ² / ndf 5.655e+05 / 91
p0 0.9308 ± 0.0008681
12
10
8
6
4
2

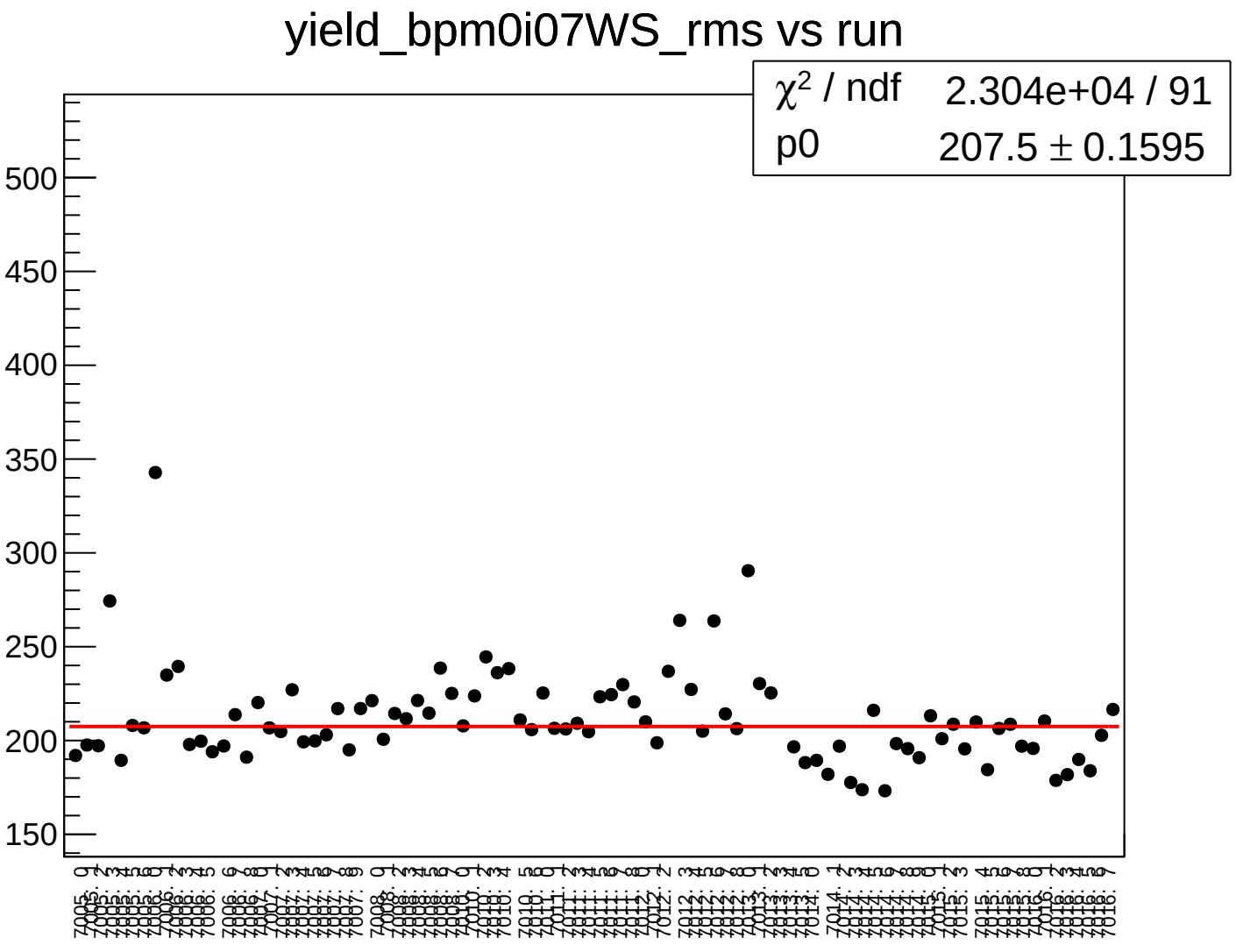

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.088e+04 / 91
p0 1.765e+05 ± 0.2044
176.6
176.58
176.56
176.54
176.52
176.5
176.48
176.46
176.44
pull
Entries 92
Mean 2318
Std Dev 0
60
50
40
30
20
10
0
−10
−20

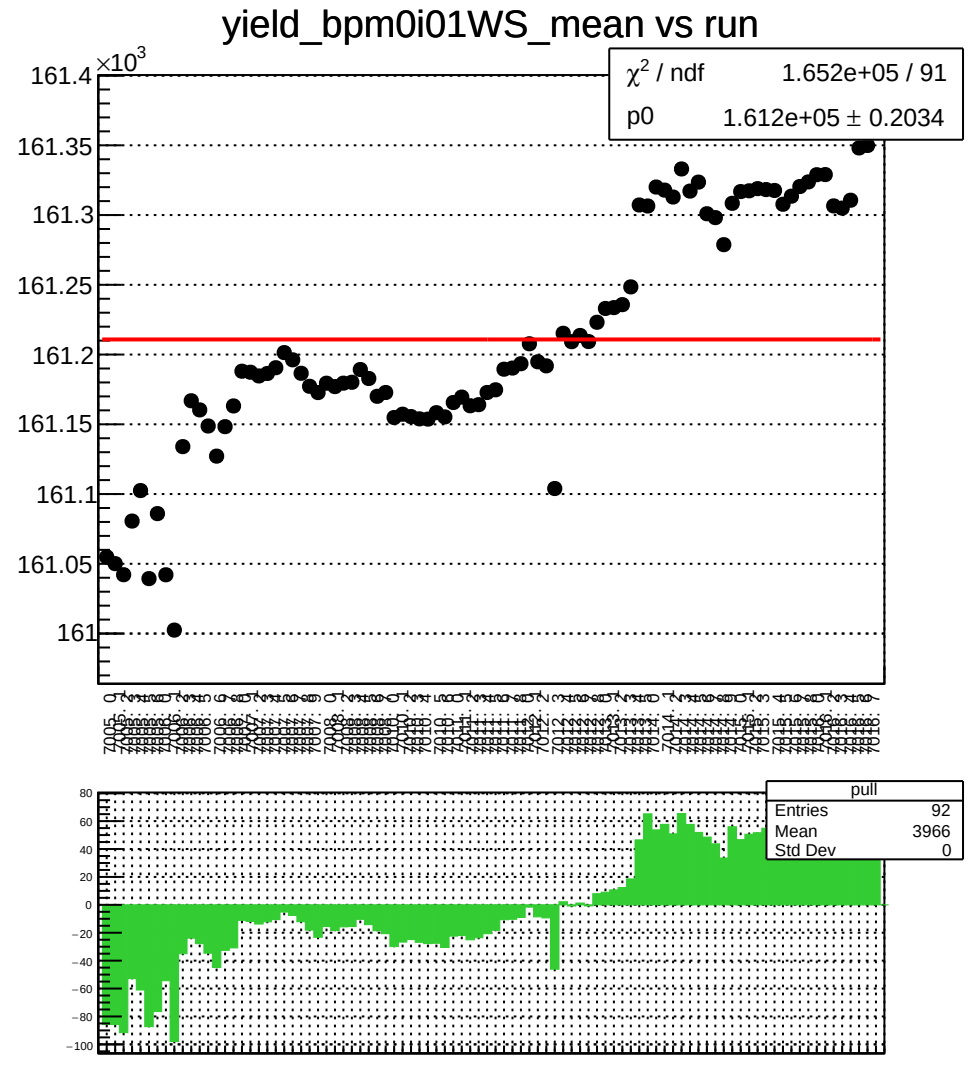

pull1D
Entries 92
Mean −1.616
Std Dev 4.686
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

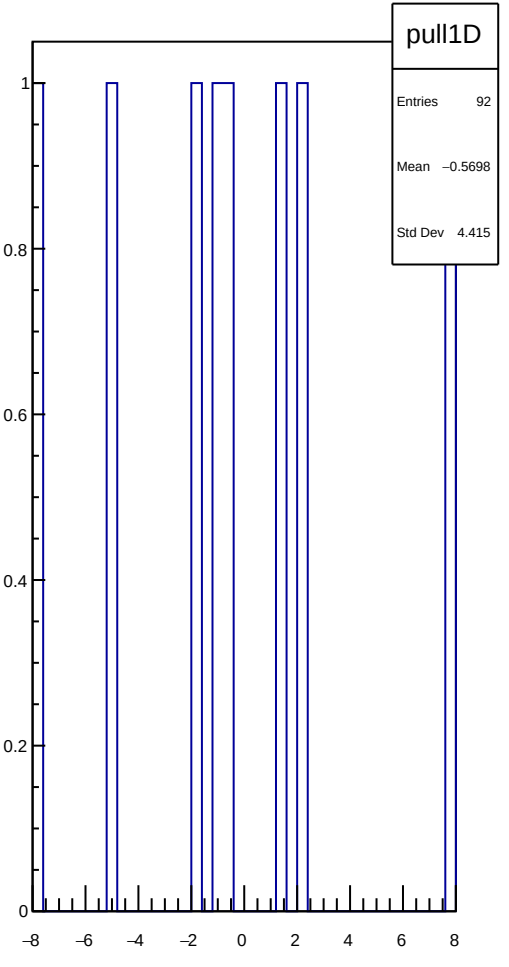

yield_bpm2i01WS_rms vs run
χ² / ndf 7589 / 91
p0 188.9 ± 0.1445
280
260
240
220
200
180
160

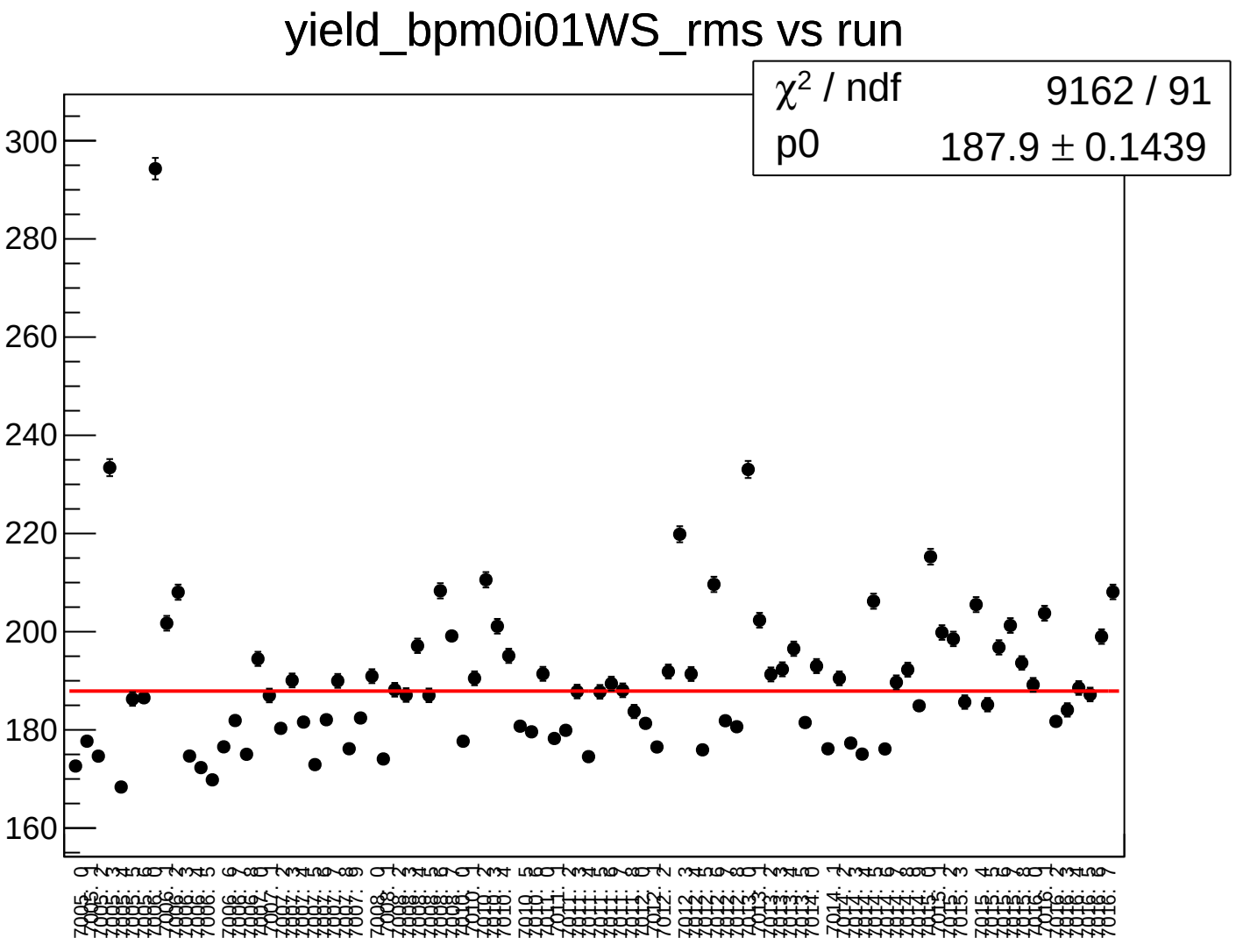

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.542e+06 / 91
p0 1.414e+05 ± 0.2255
142
141.8
141.6
141.4
141.2
141
pull
Entries 92
Mean −141.7
Std Dev 0
300
200
100
0
−100
−200

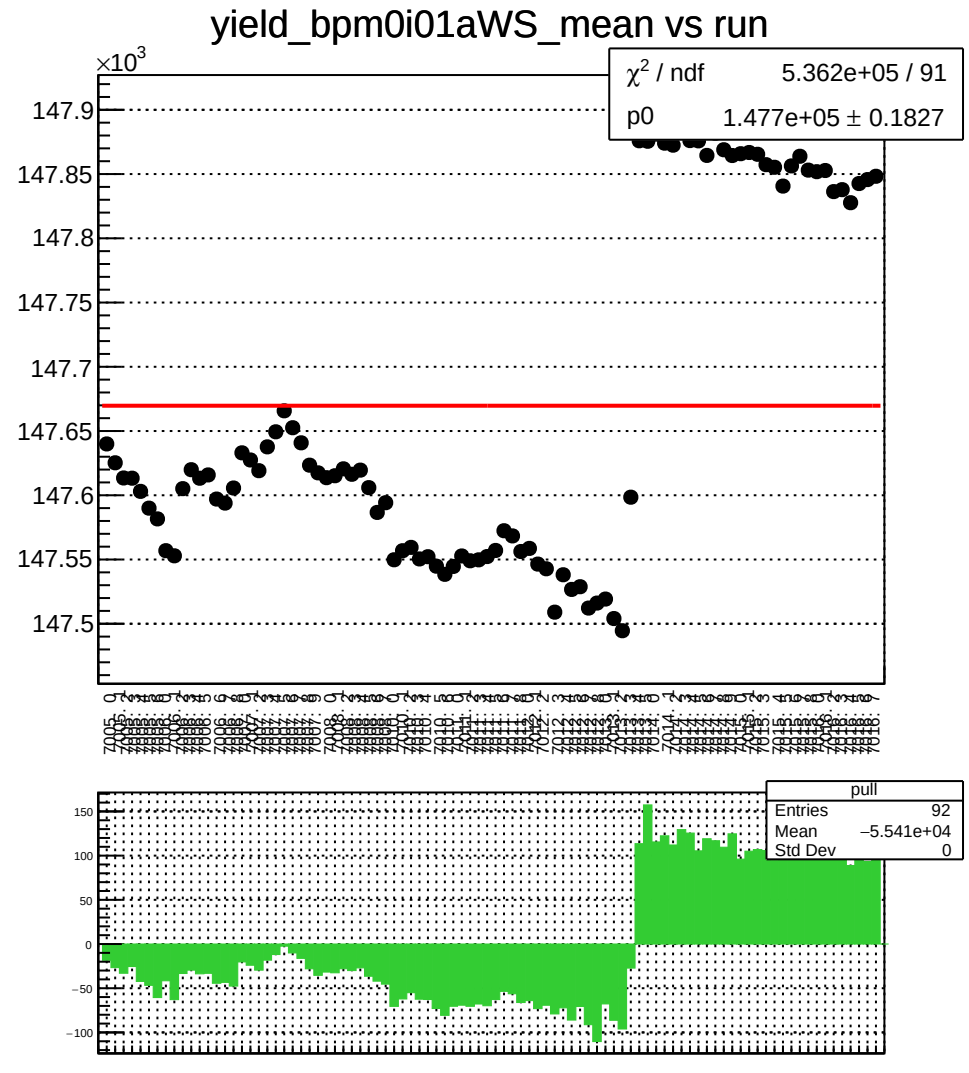

pull1D
Entries 92
Mean −2.148
Std Dev 3.853
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

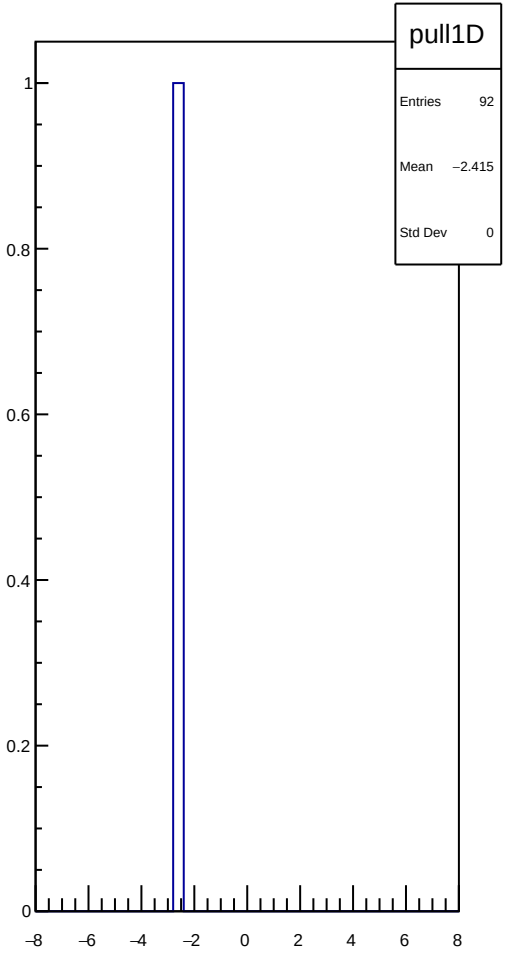

yield_bpm0i07WS_rms vs run
χ² / ndf 2.304e+04 / 91
p0 207.5 ± 0.1595
500
450
400
350
300
250
200
150

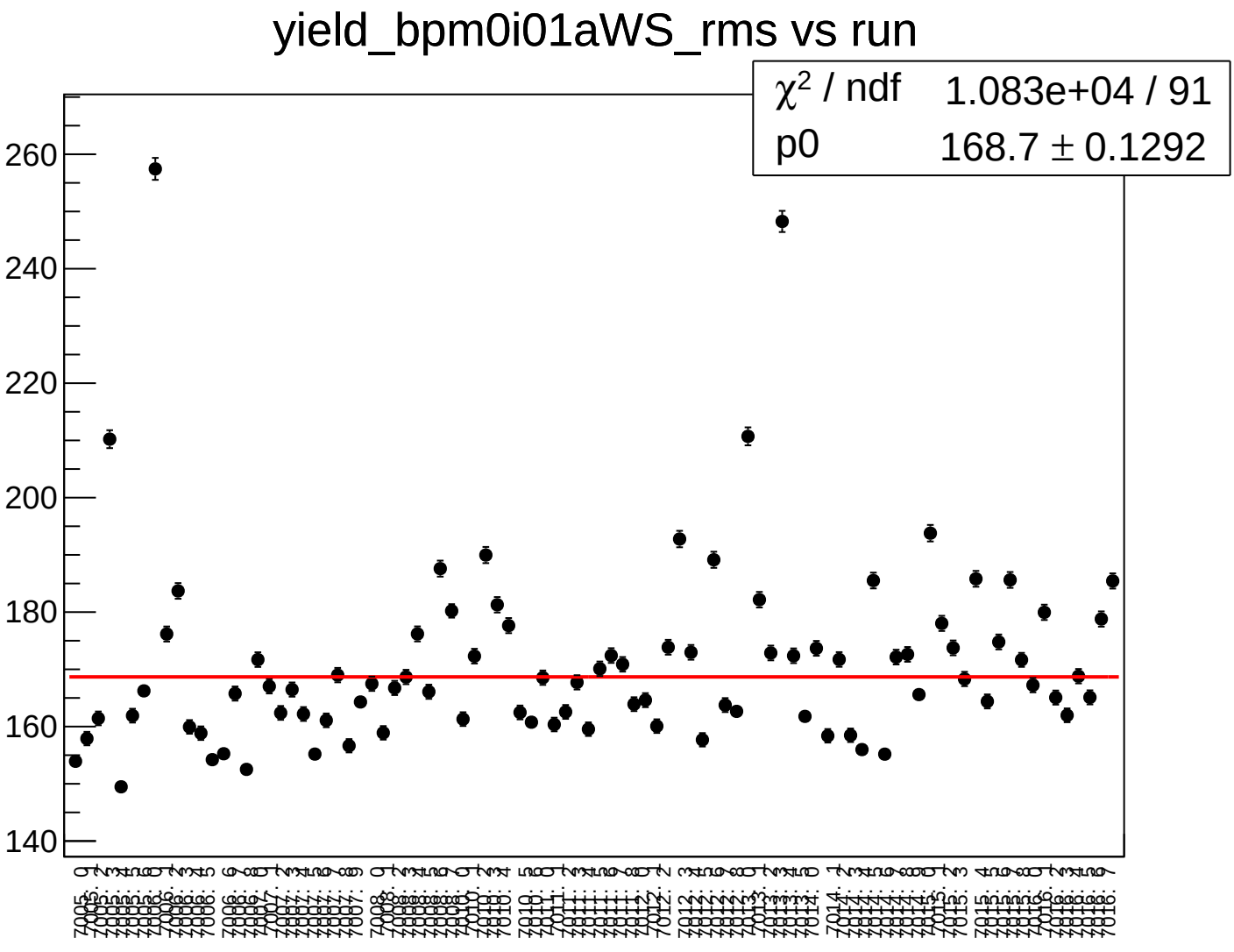

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.652e+05 / 91
p0 1.612e+05 ± 0.2034
161.4
161.35
161.3
161.25
161.2
161.15
161.1
161.05
161
pull
Entries 92
Mean 3966
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

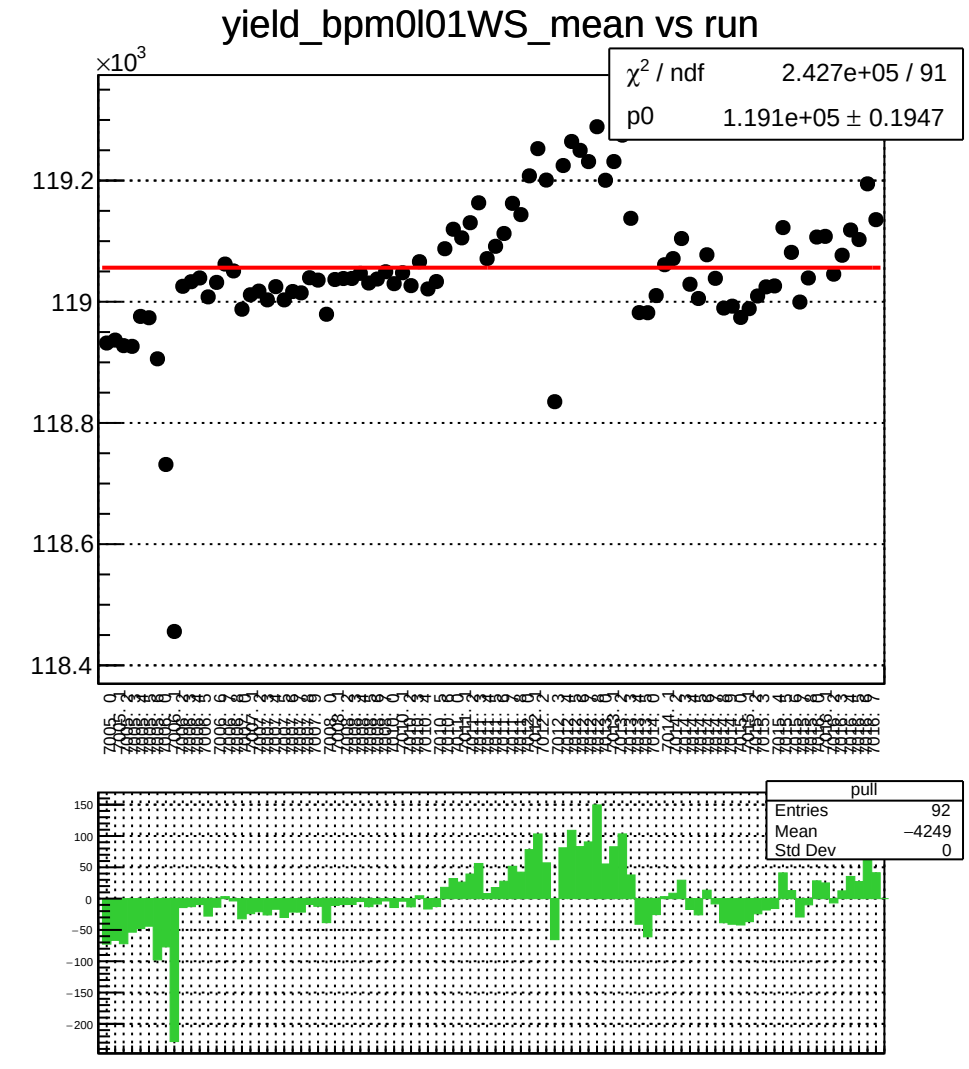

pull1D
Entries 92
Mean −0.5698
Std Dev 4.415
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

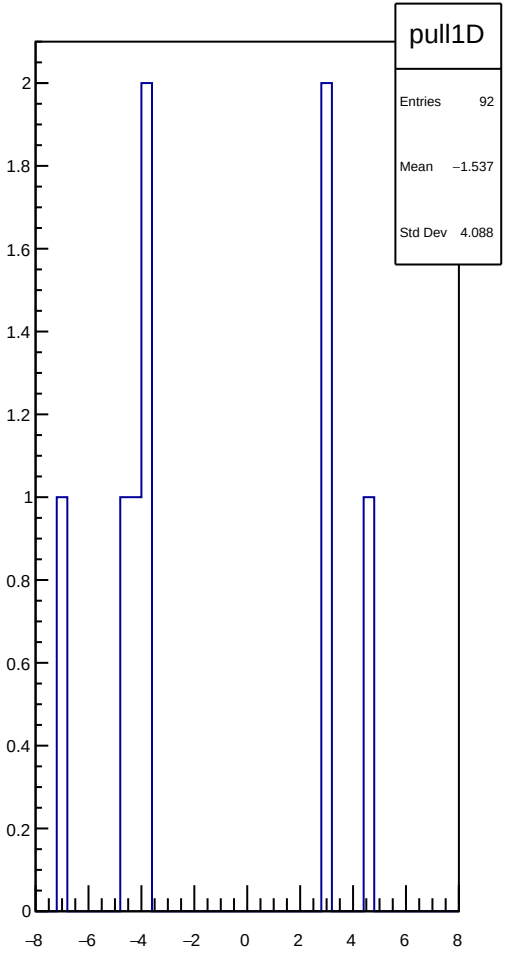

yield_bpm0i01WS_rms vs run
χ² / ndf 9162 / 91
p0 187.9 ± 0.1439
300
280
260
240
220
200
180
160

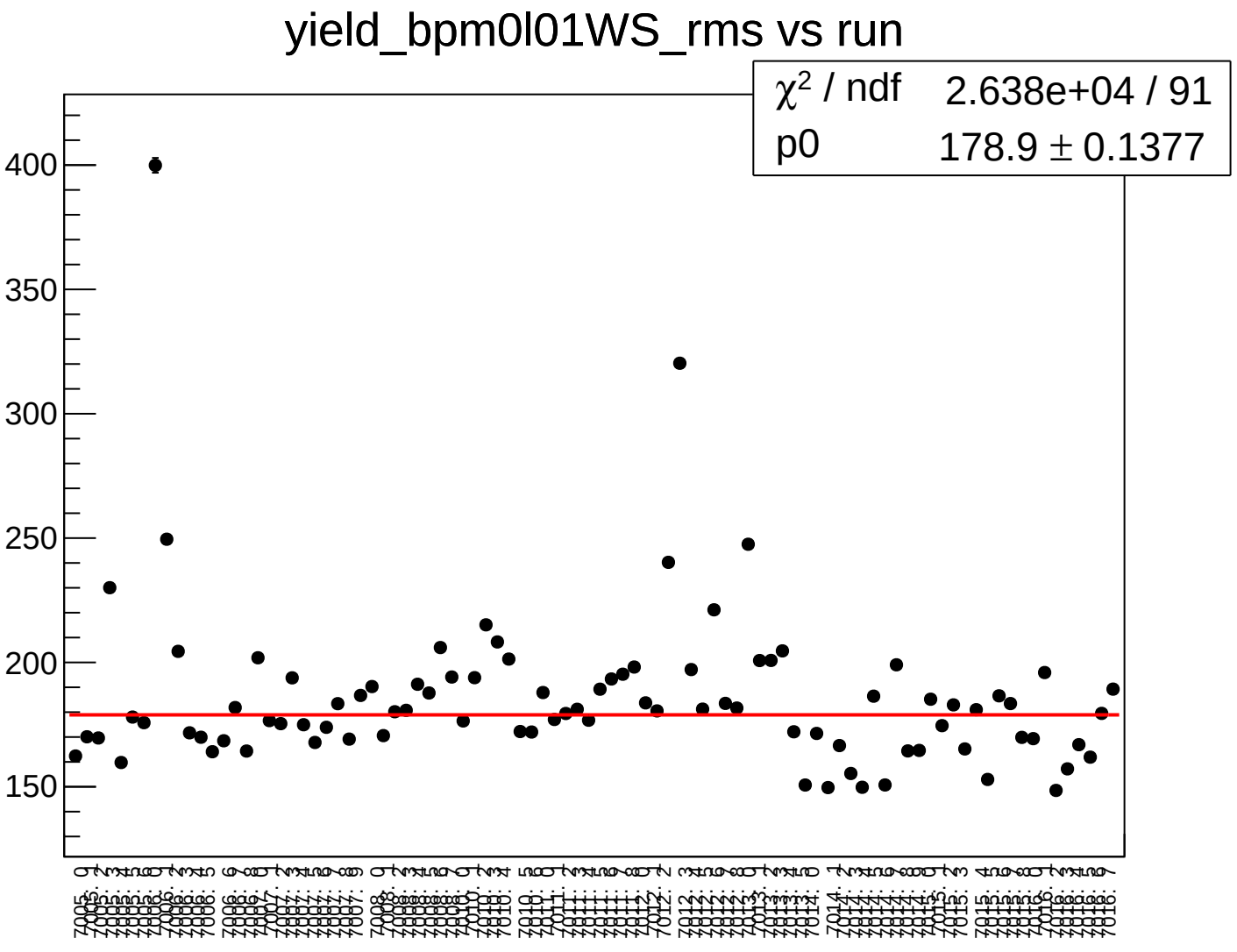

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 5.362e+05 / 91
p0 1.477e+05 ± 0.1827
147.9
147.85
147.8
147.75
147.7
147.65
147.6
147.55
147.5
pull
Entries 92
Mean −5.541e+04
Std Dev 0
150
100
50
0
−50
−100

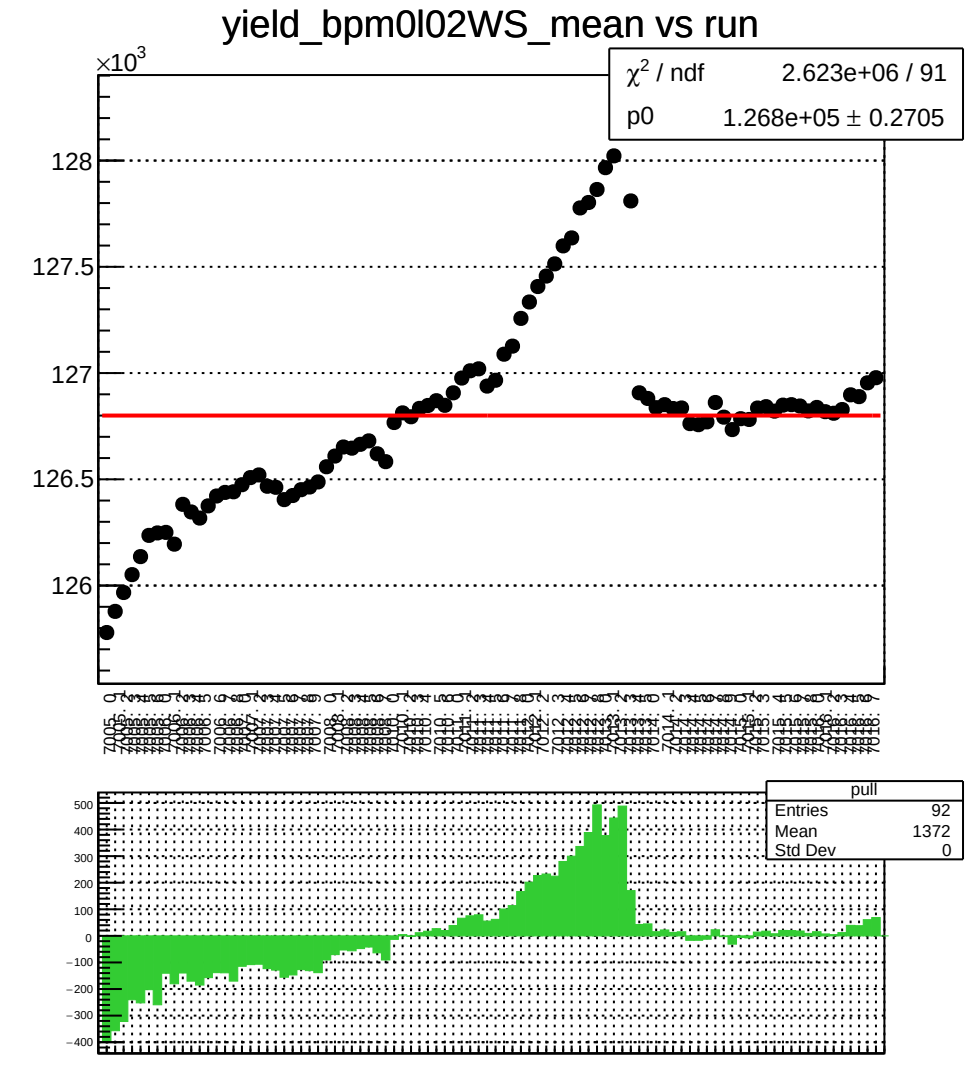

pull1D
Entries 92
Mean −2.415
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

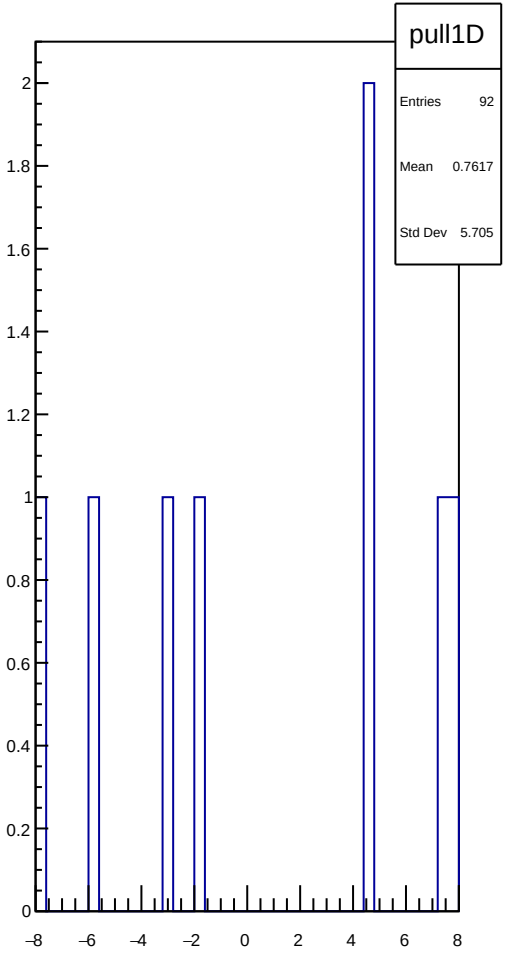

yield_bpm0i01aWS_rms vs run
χ² / ndf 1.083e+04 / 91
p0 168.7 ± 0.1292
260
240
220
200
180
160
140

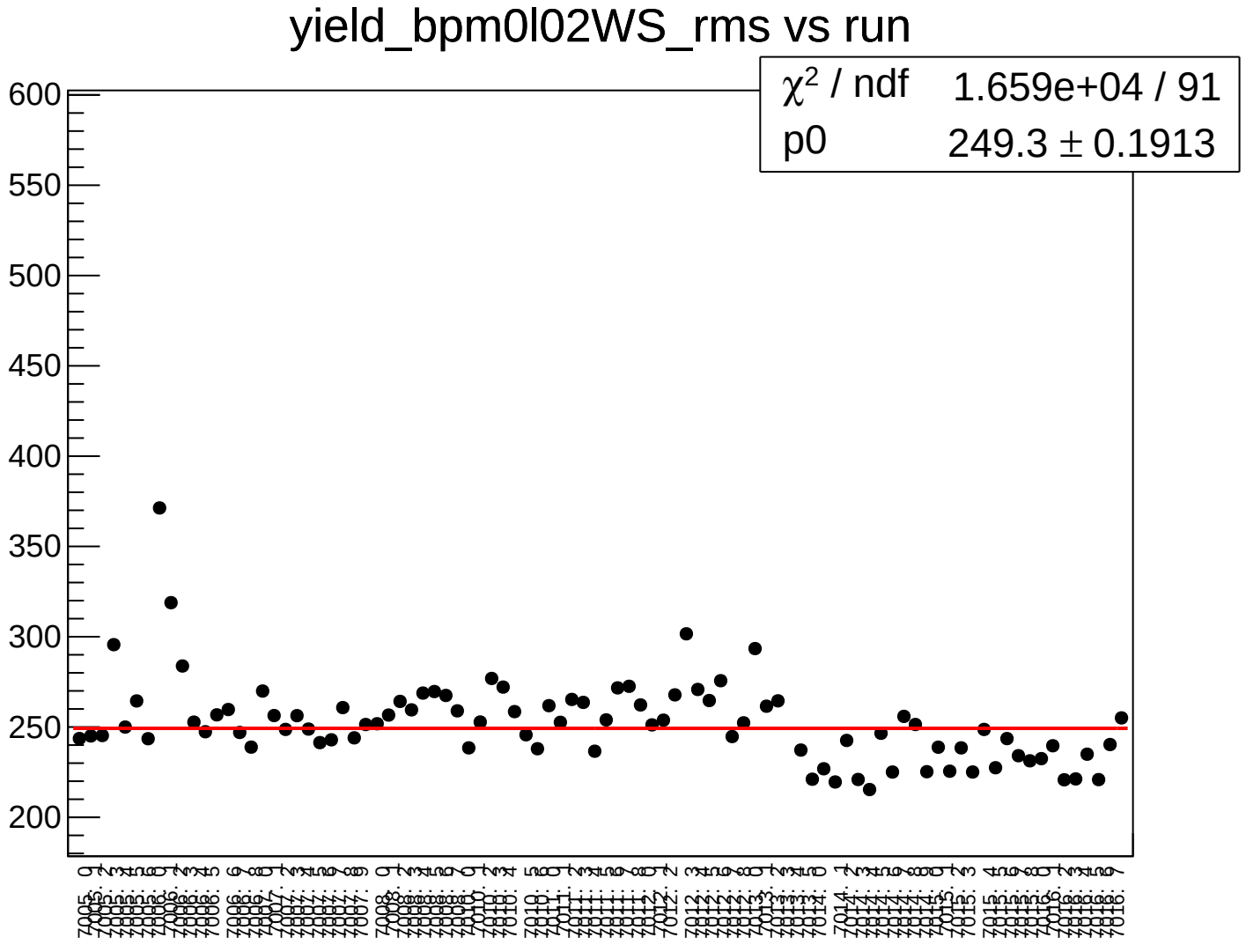

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.427e+05 / 91
p0 1.191e+05 ± 0.1947
119.2
119
118.8
118.6
118.4
pull
Entries 92
Mean −4249
Std Dev 0
150
100
50
0
−50
−100
−150
−200

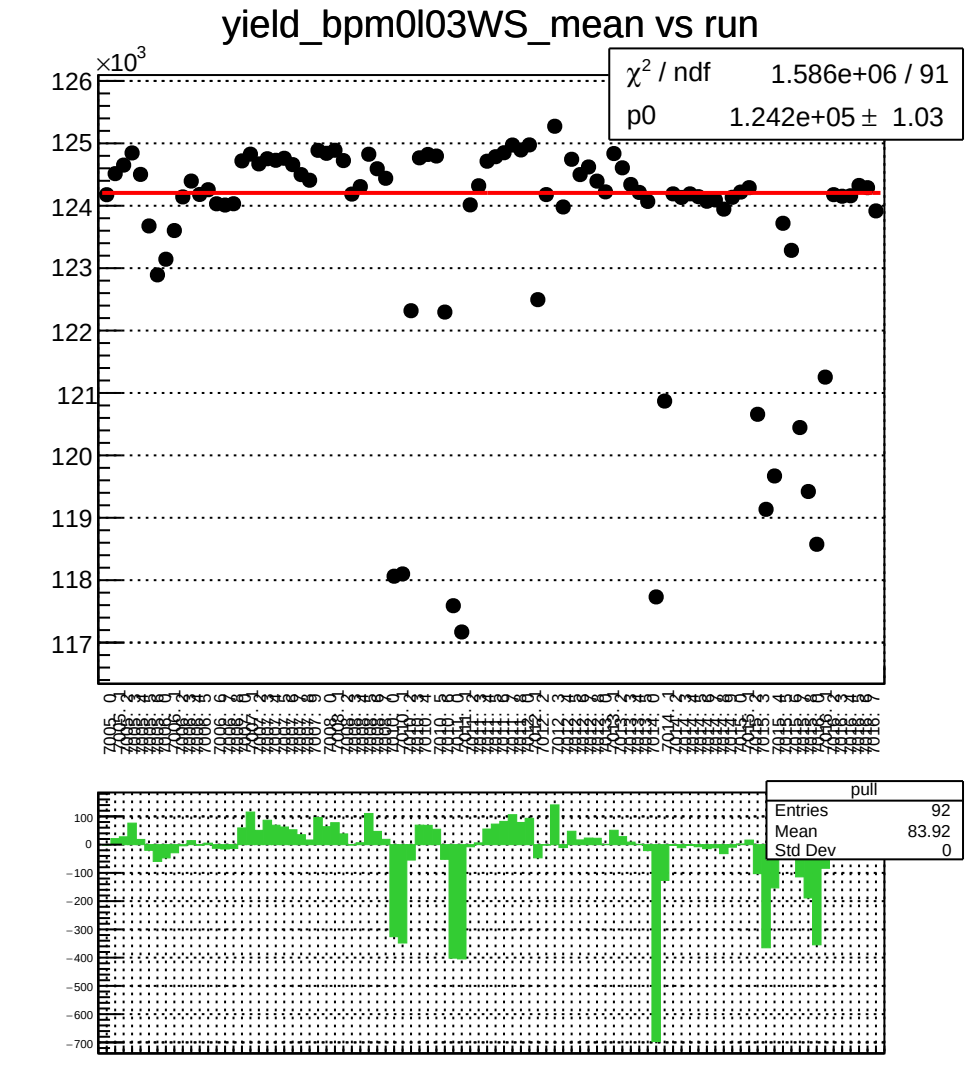

pull1D
Entries 92
Mean −1.537
Std Dev 4.088
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

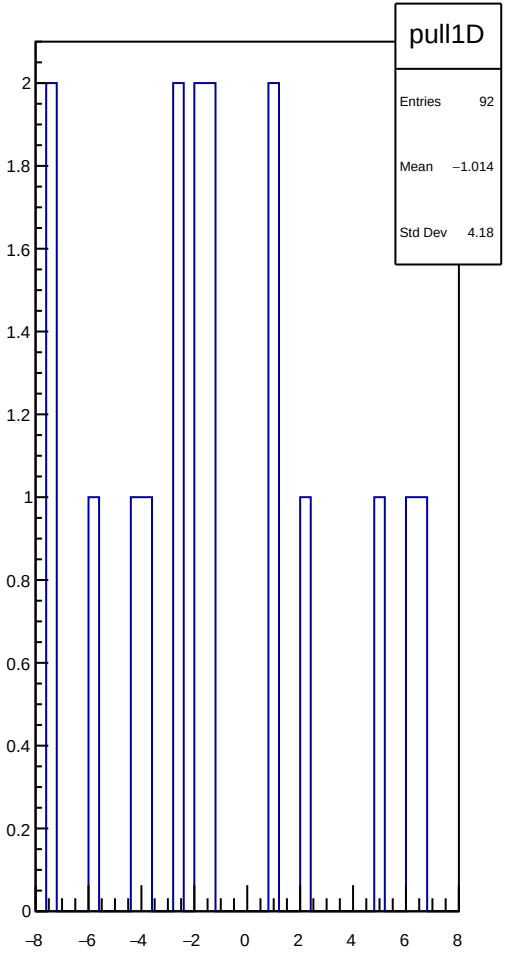

yield_bpm0l01WS_rms vs run
χ² / ndf 2.638e+04 / 91
p0 178.9 ± 0.1377
400
350
300
250
200
150

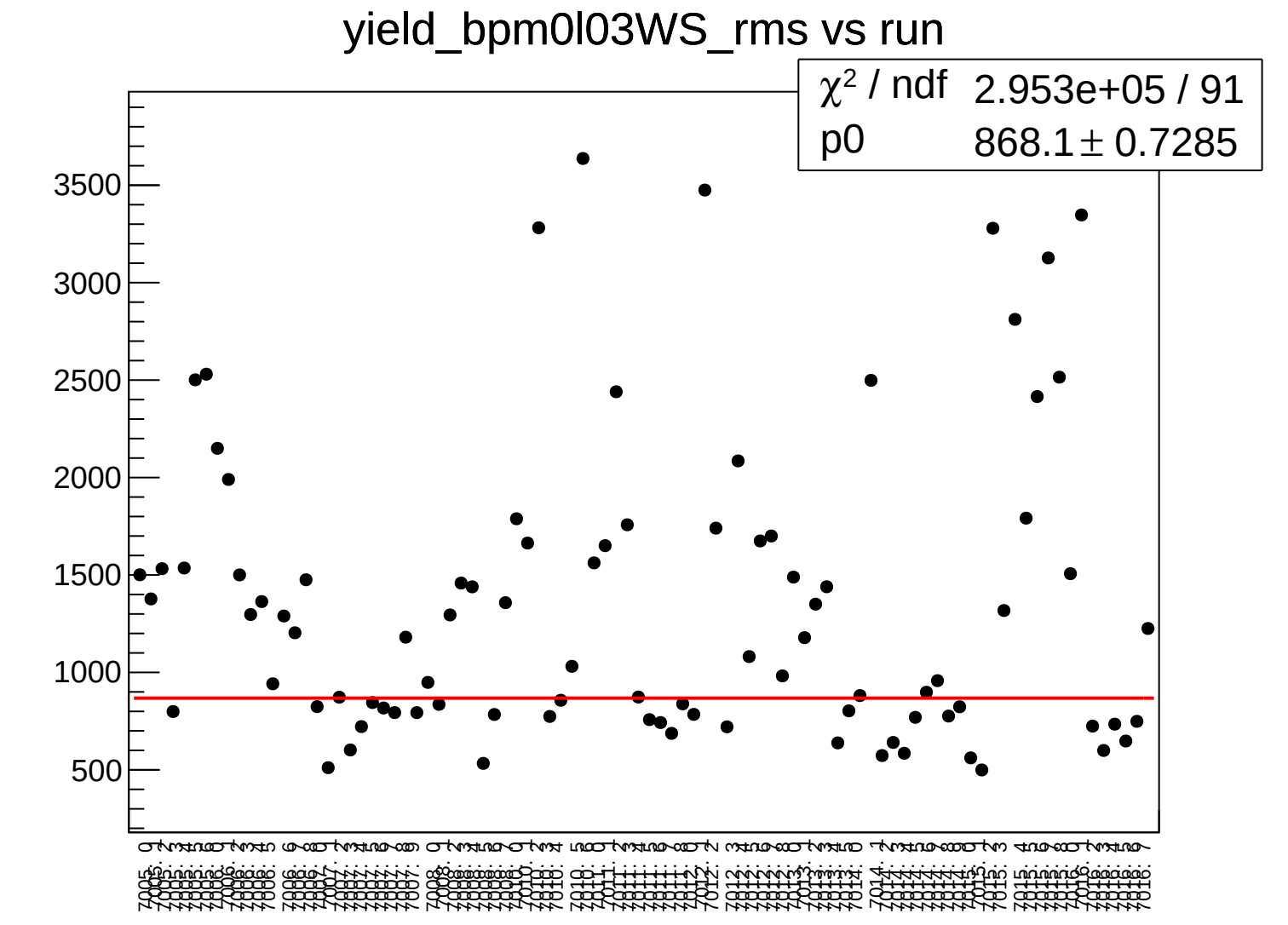

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.623e+06 / 91
p0 1.268e+05 ± 0.2705
128
127.5
127
126.5
126
pull
Entries 92
Mean 1372
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

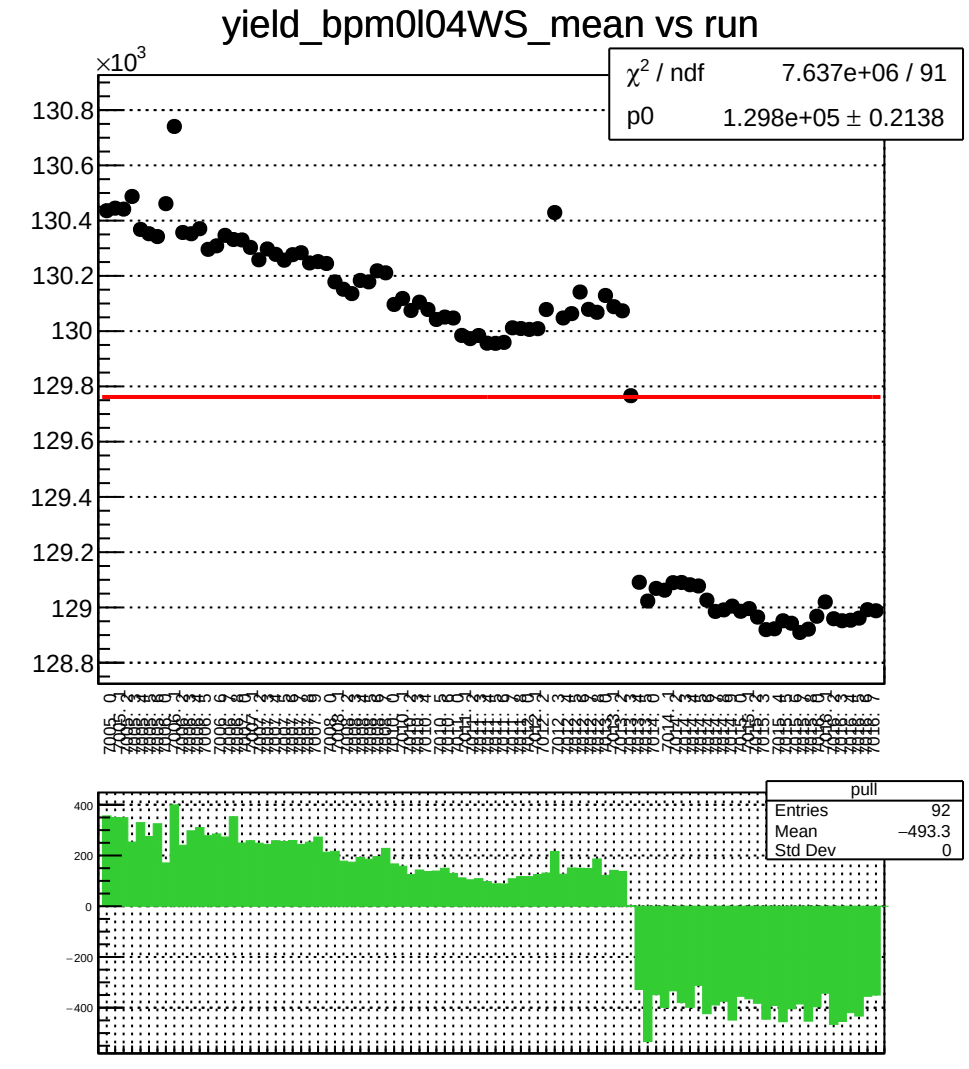

pull1D
Entries 92
Mean 0.7617
Std Dev 5.705
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

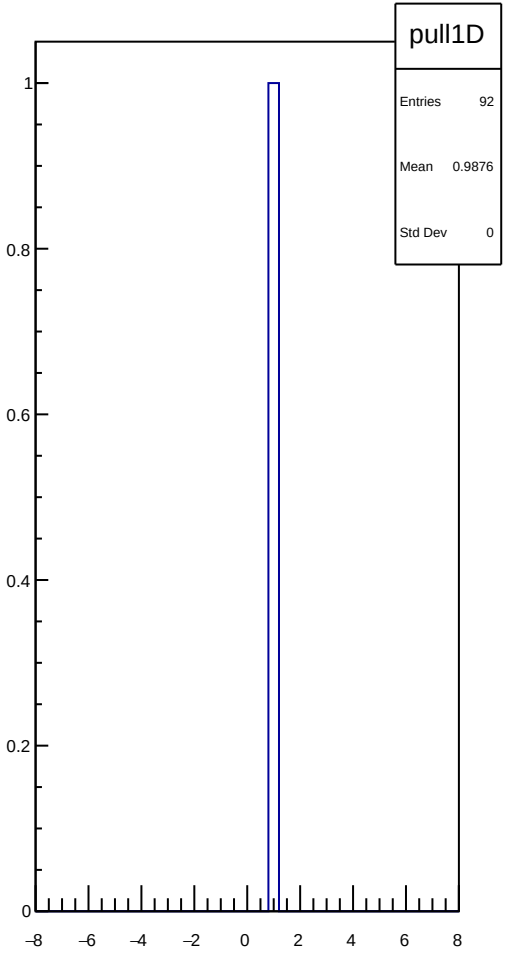

yield_bpm0l02WS_rms vs run
χ² / ndf 1.659e+04 / 91
p0 249.3 ± 0.1913
600
550
500
450
400
350
300
250
200

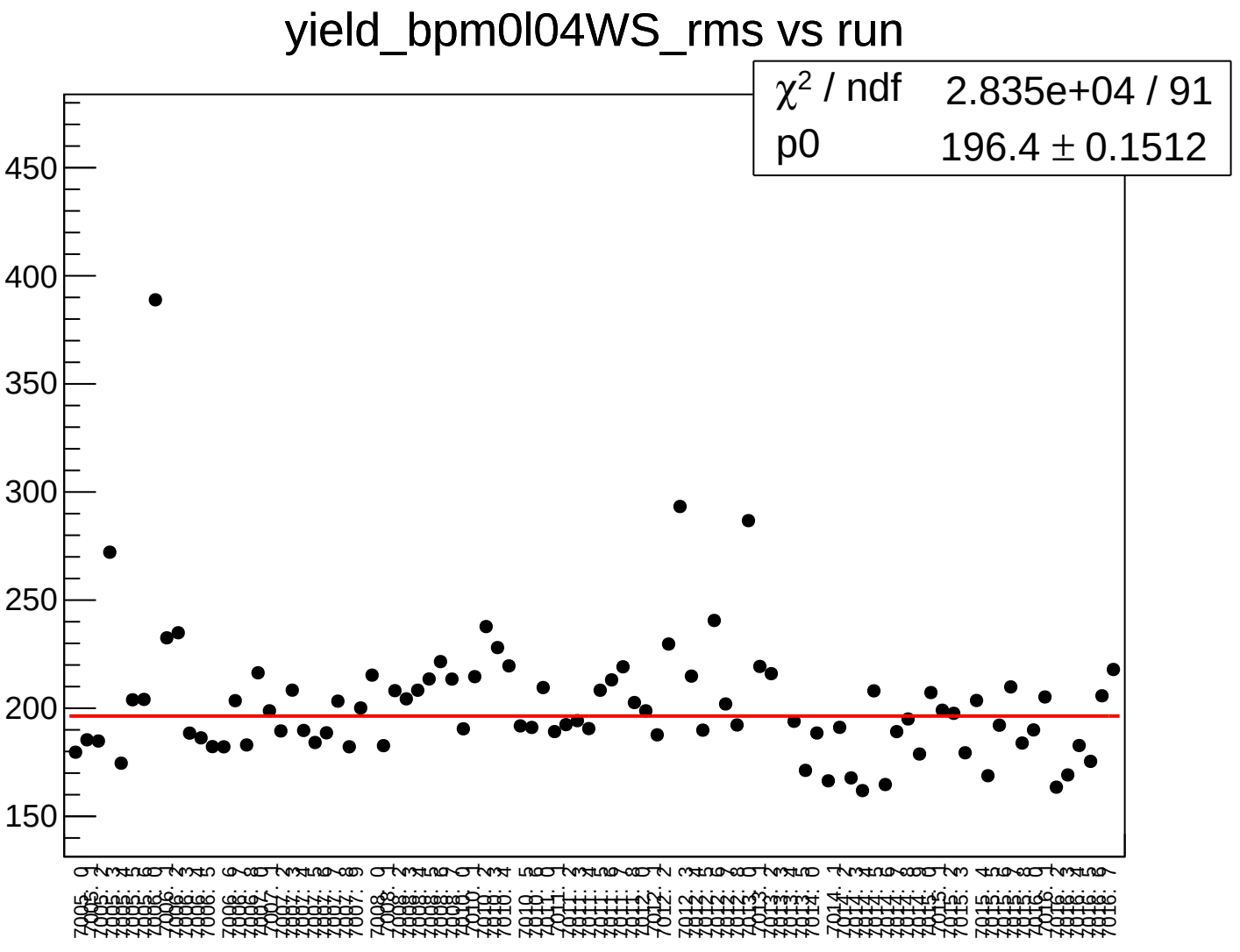

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.586e+06 / 91
p0 1.242e+05 ± 1.03
126
125
124
123
122
121
120
119
118
117
pull
Entries 92
Mean 83.92
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600
−700

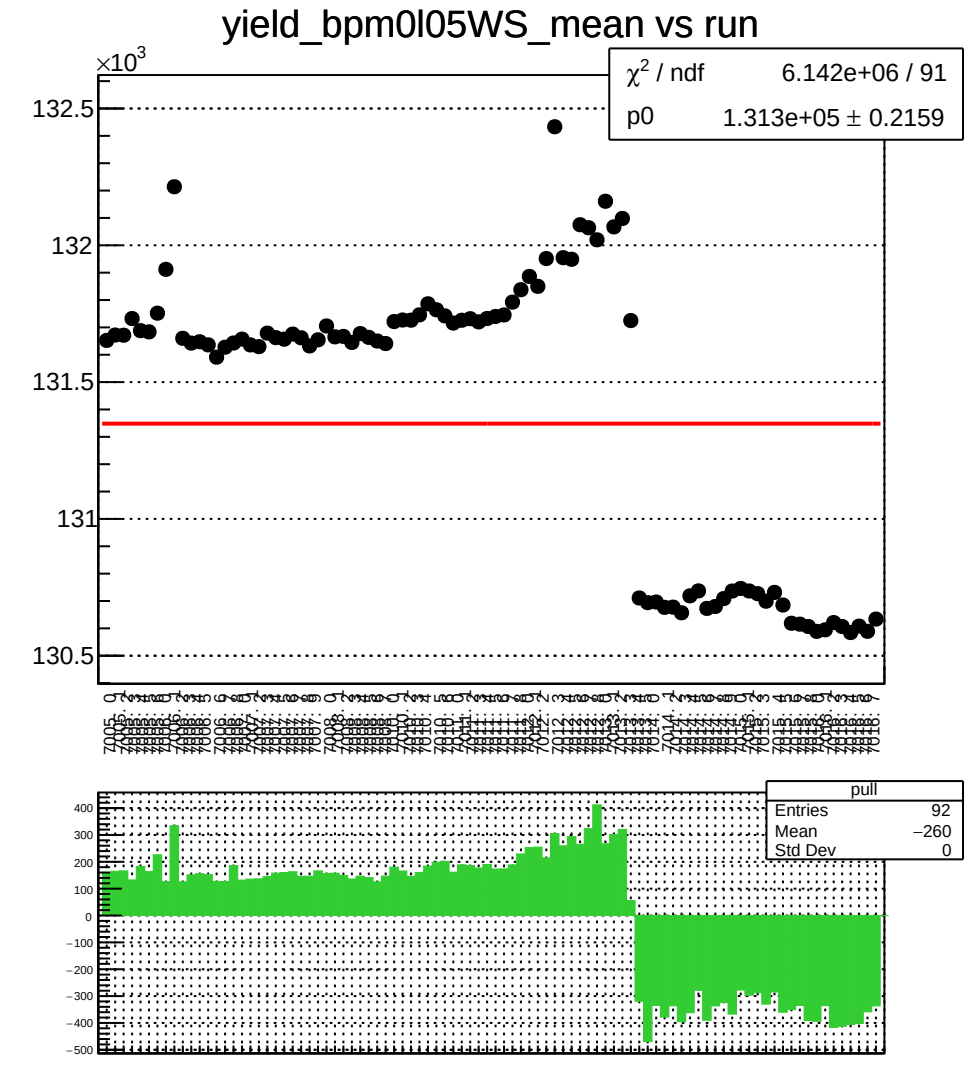

pull1D
Entries 92
Mean −1.014
Std Dev 4.18
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

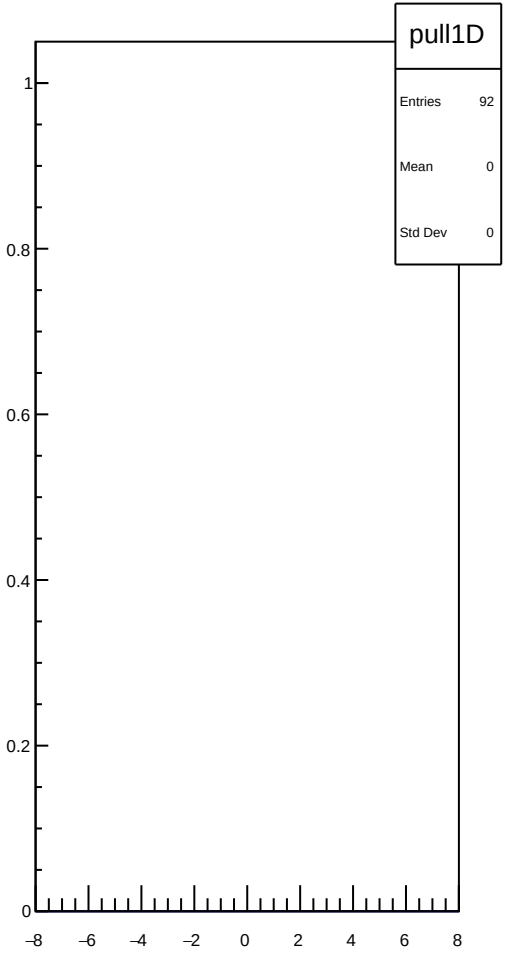

yield_bpm0l03WS_rms vs run
χ² / ndf 2.953e+05 / 91
p0 868.1 ± 0.7285
3500
3000
2500
2000
1500
1000
500

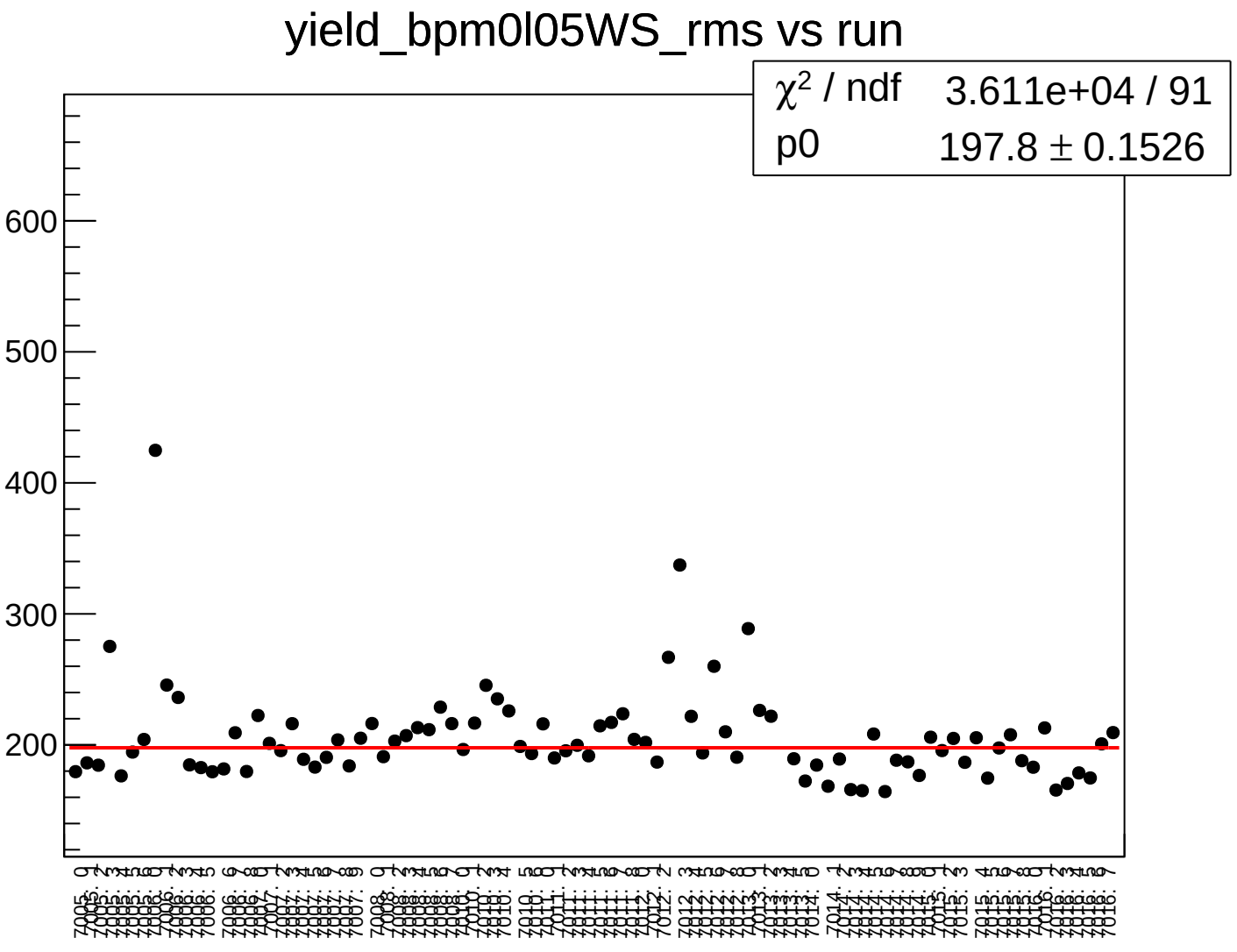

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 7.637e+06 / 91
p0 1.298e+05 ± 0.2138
130.8
130.6
130.4
130.2
130
129.8
129.6
129.4
129.2
129
128.8
pull
Entries 92
Mean −493.3
Std Dev 0
400
200
0
−200
−400

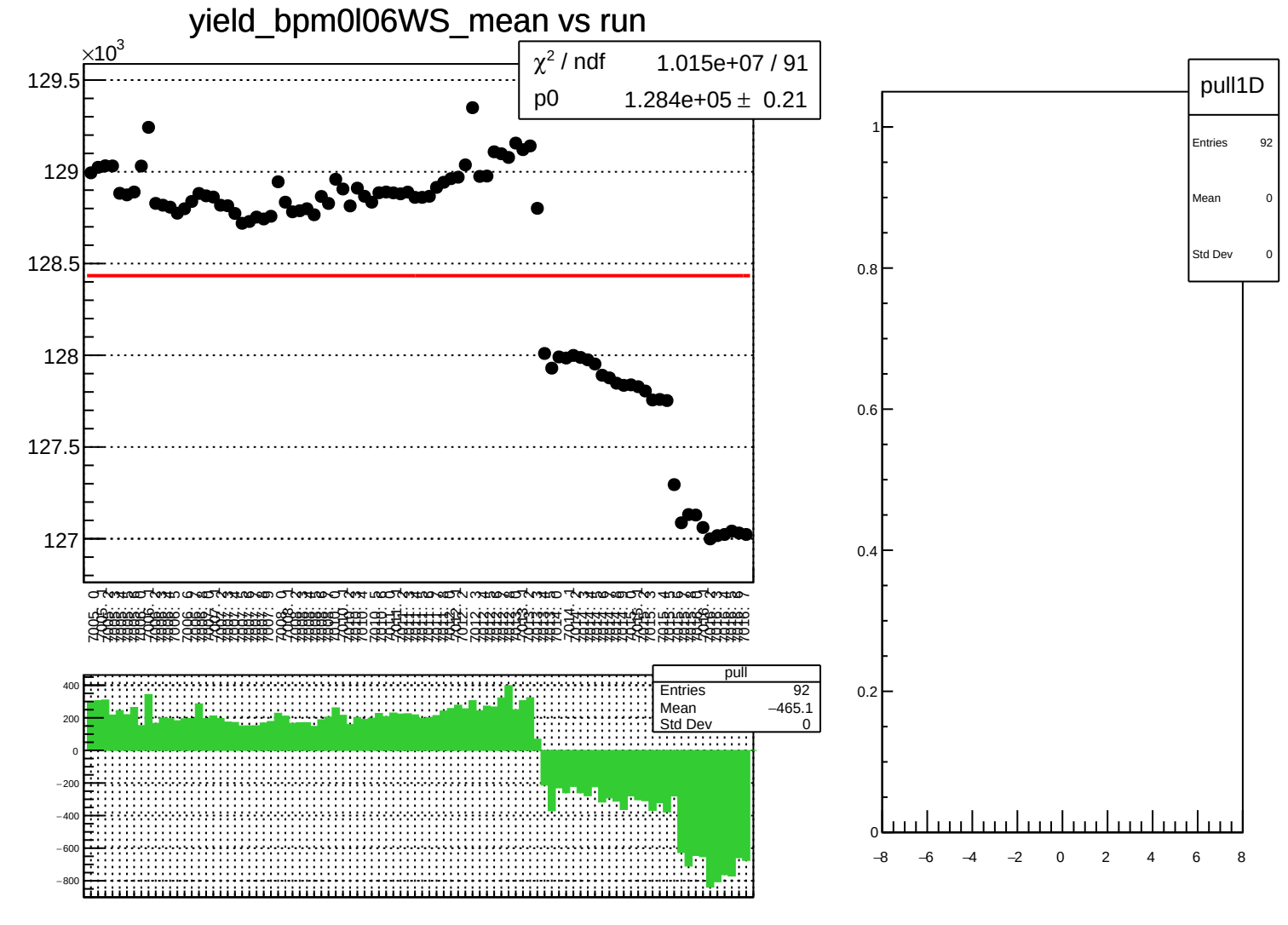

pull1D
Entries 92
Mean 0.9876
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

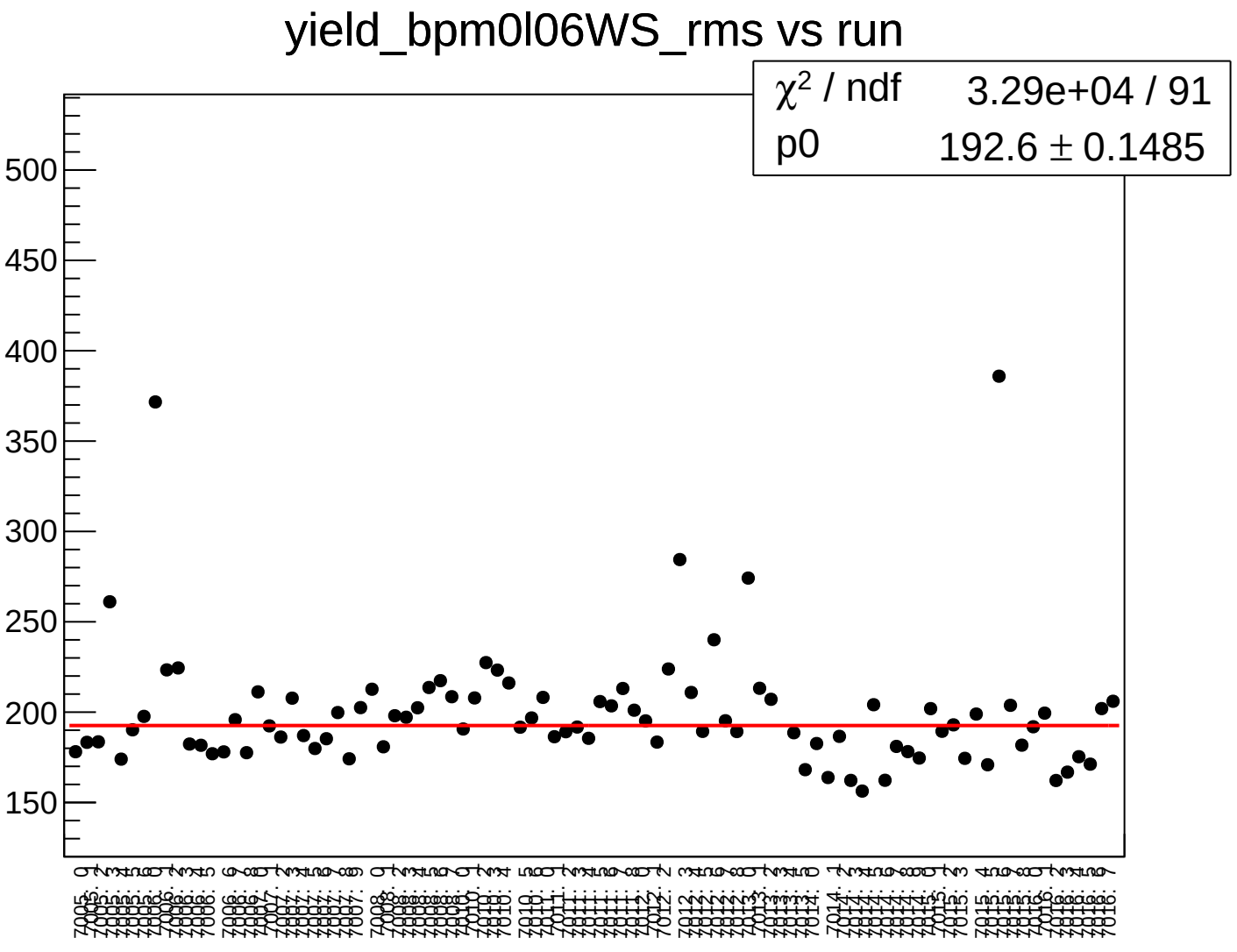

yield_bpm0l04WS_rms vs run
χ² / ndf 2.835e+04 / 91
p0 196.4 ± 0.1512
450
400
350
300
250
200
150

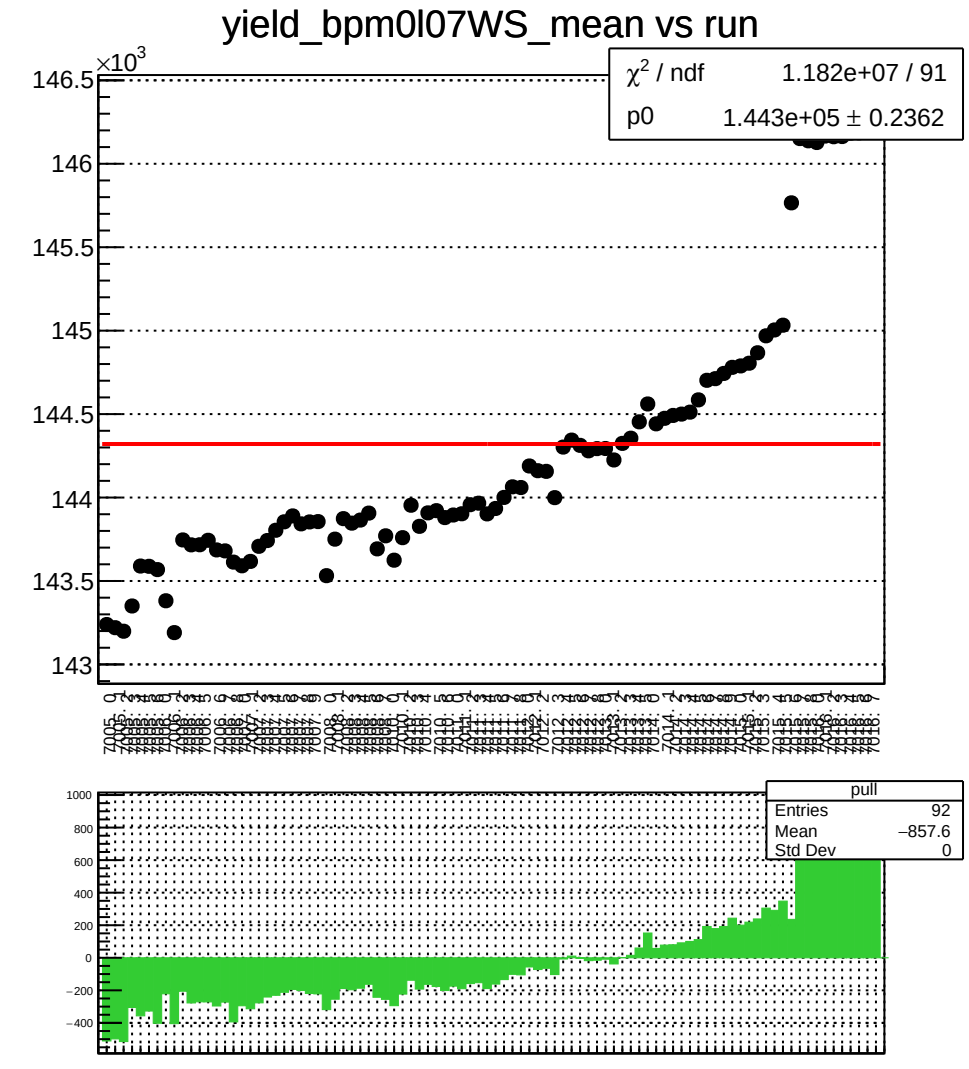

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 6.142e+06 / 91
p0 1.313e+05 ± 0.2159
132.5
132
131.5
131
130.5
pull
Entries 92
Mean −260
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

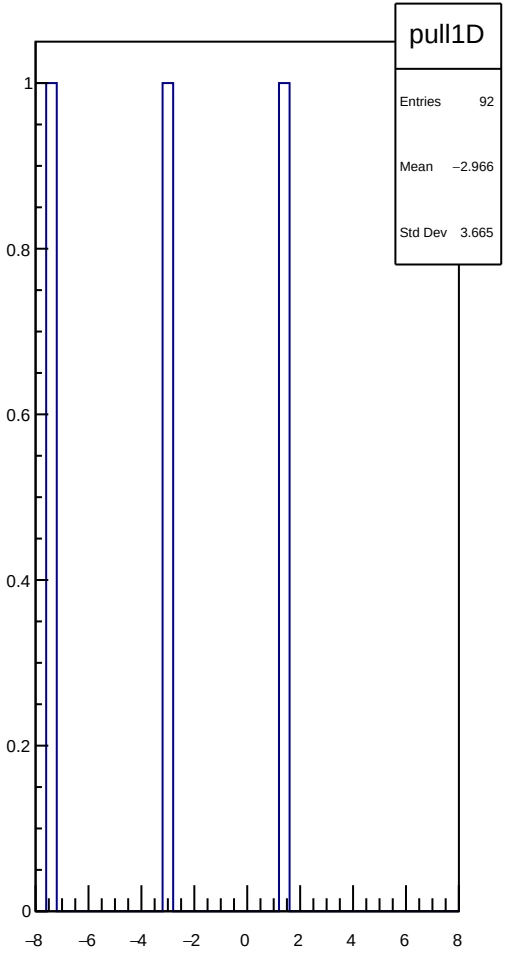

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

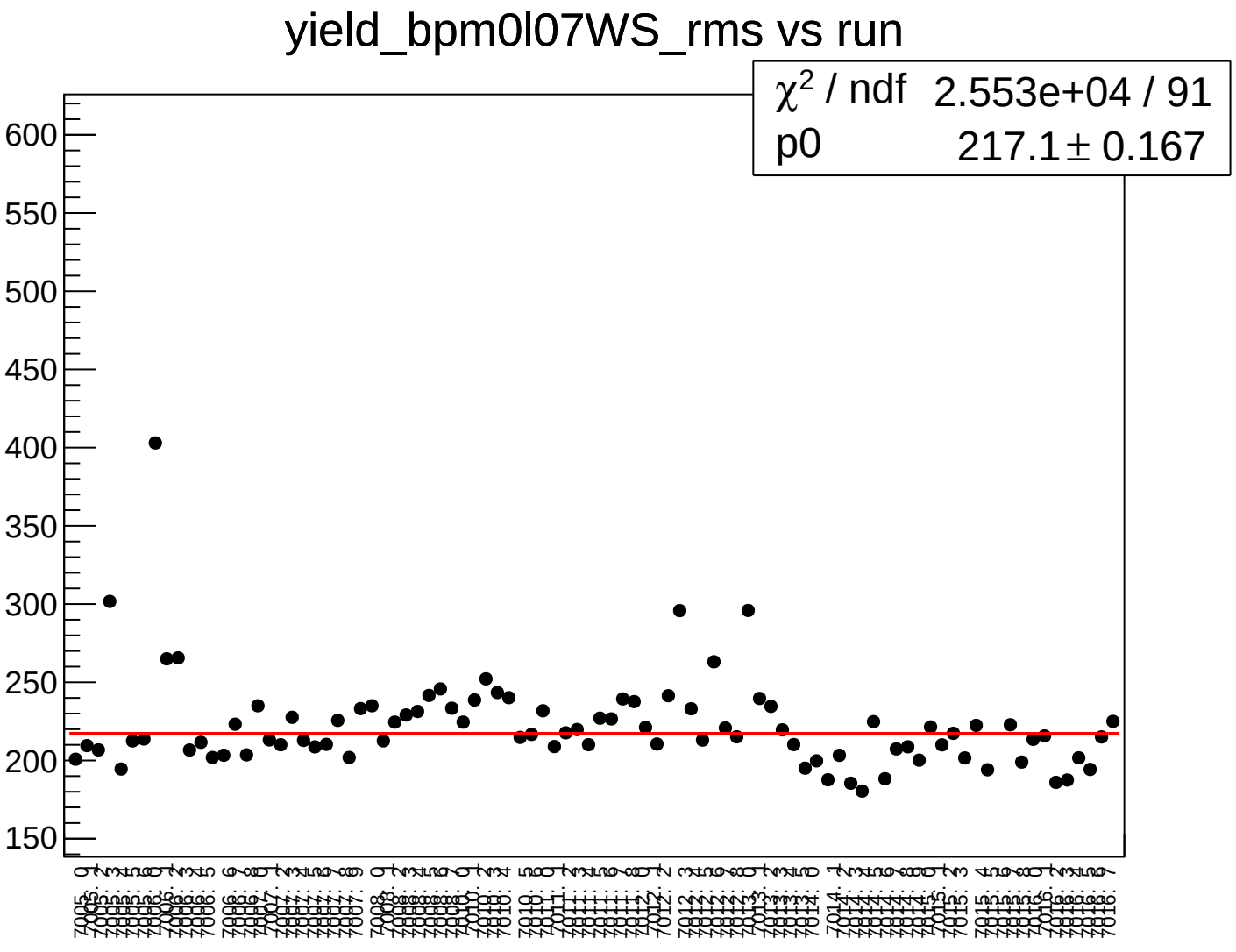

yield_bpm0l05WS_rms vs run
χ² / ndf 3.611e+04 / 91
p0 197.8 ± 0.1526
600
500
400
300
200

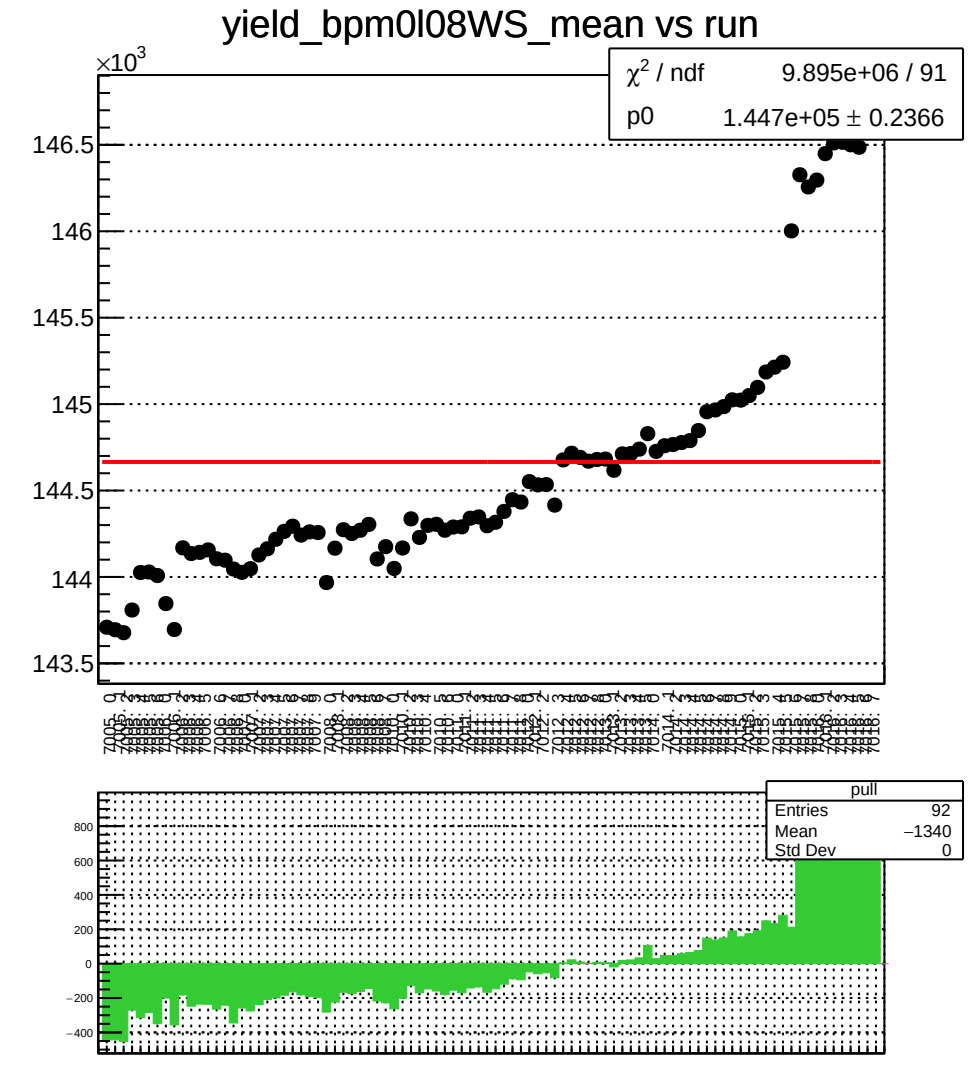

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.015e+07 / 91
p0 1.284e+05 ± 0.21
129.5
129
128.5
128
127.5
127
pull
Entries 92
Mean −465.1
Std Dev 0
400
200
0
−200
−400
−600
−800
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

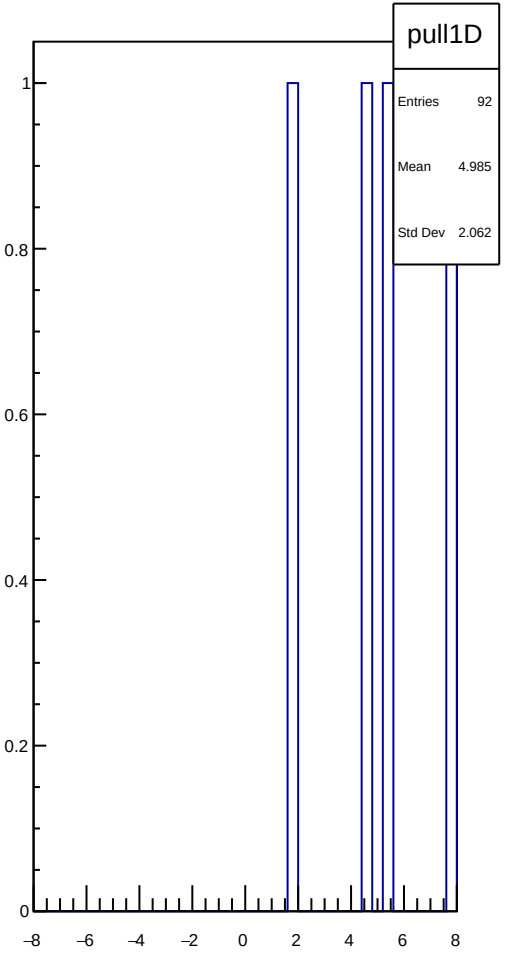

yield_bpm0l06WS_rms vs run
χ² / ndf 3.29e+04 / 91
p0 192.6 ± 0.1485
500
450
400
350
300
250
200
150

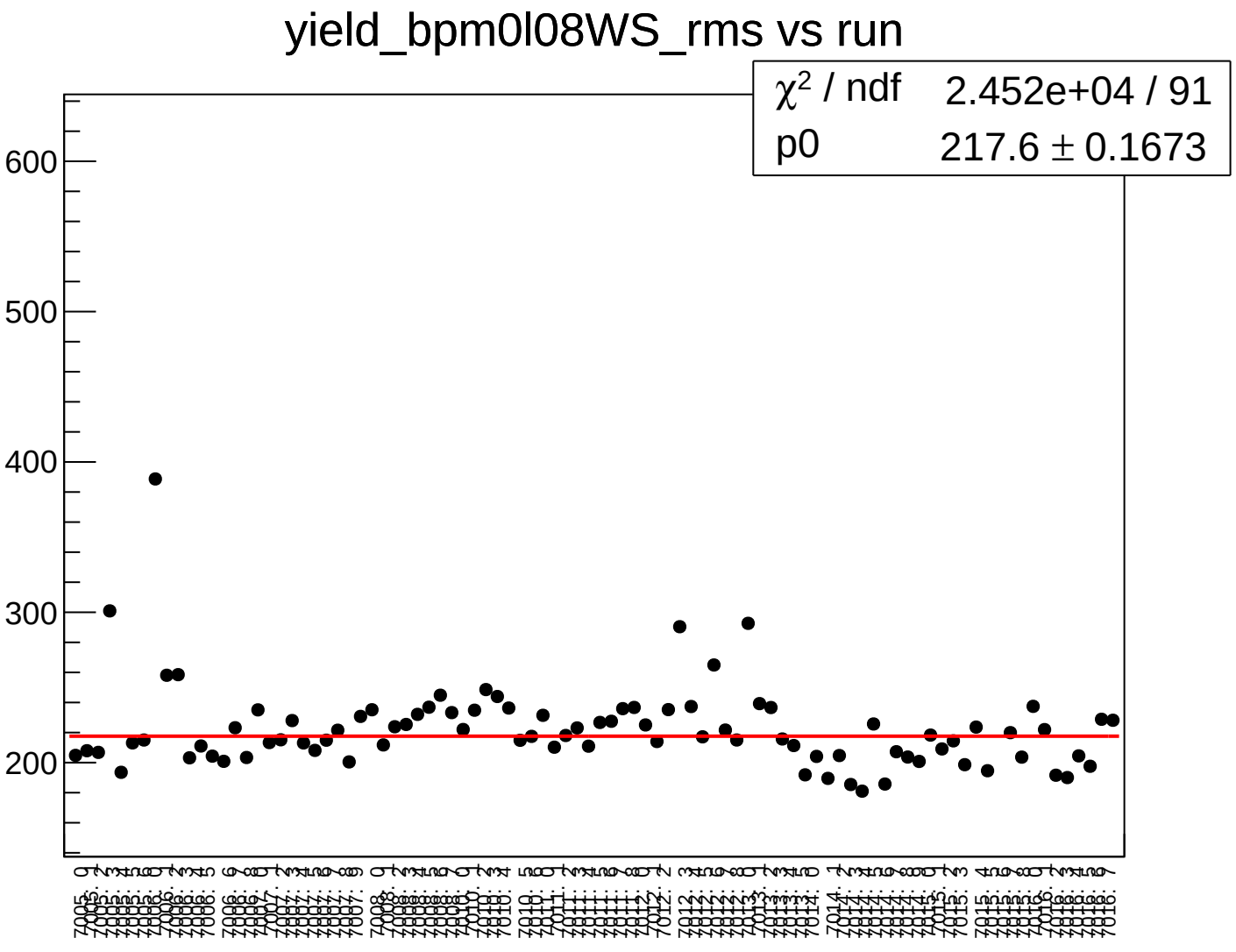

yield_bpm0l07WS_mean vs run
×10^3
146.5
146
145.5
145
144.5
144
143.5
143
χ² / ndf 1.182e+07 / 91
p0 1.443e+05 ± 0.2362
pull
Entries 92
Mean −857.6
Std Dev 0
1000
800
600
400
200
0
−200
−400

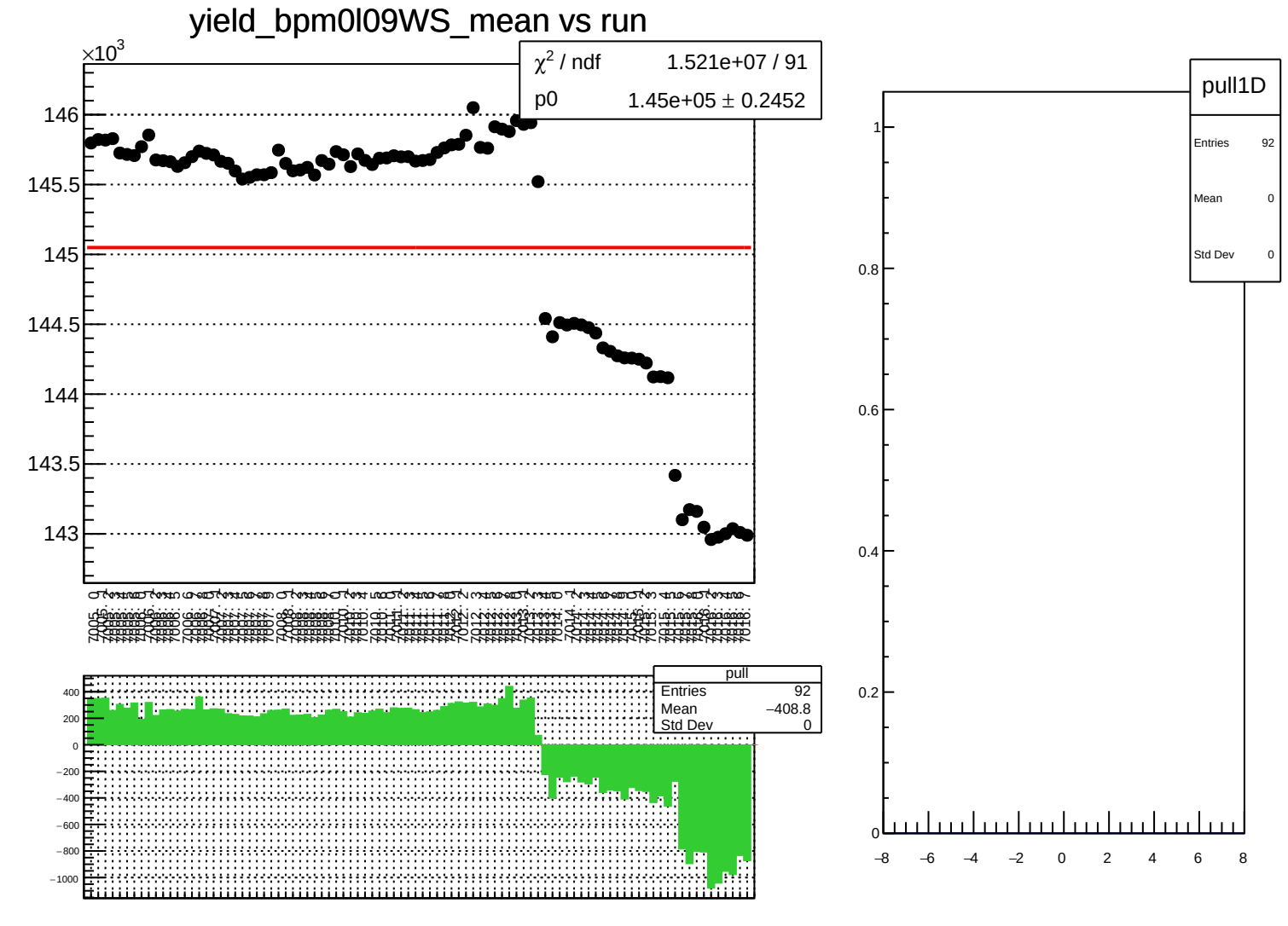

pull1D
Entries 92
Mean −2.966
Std Dev 3.665
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

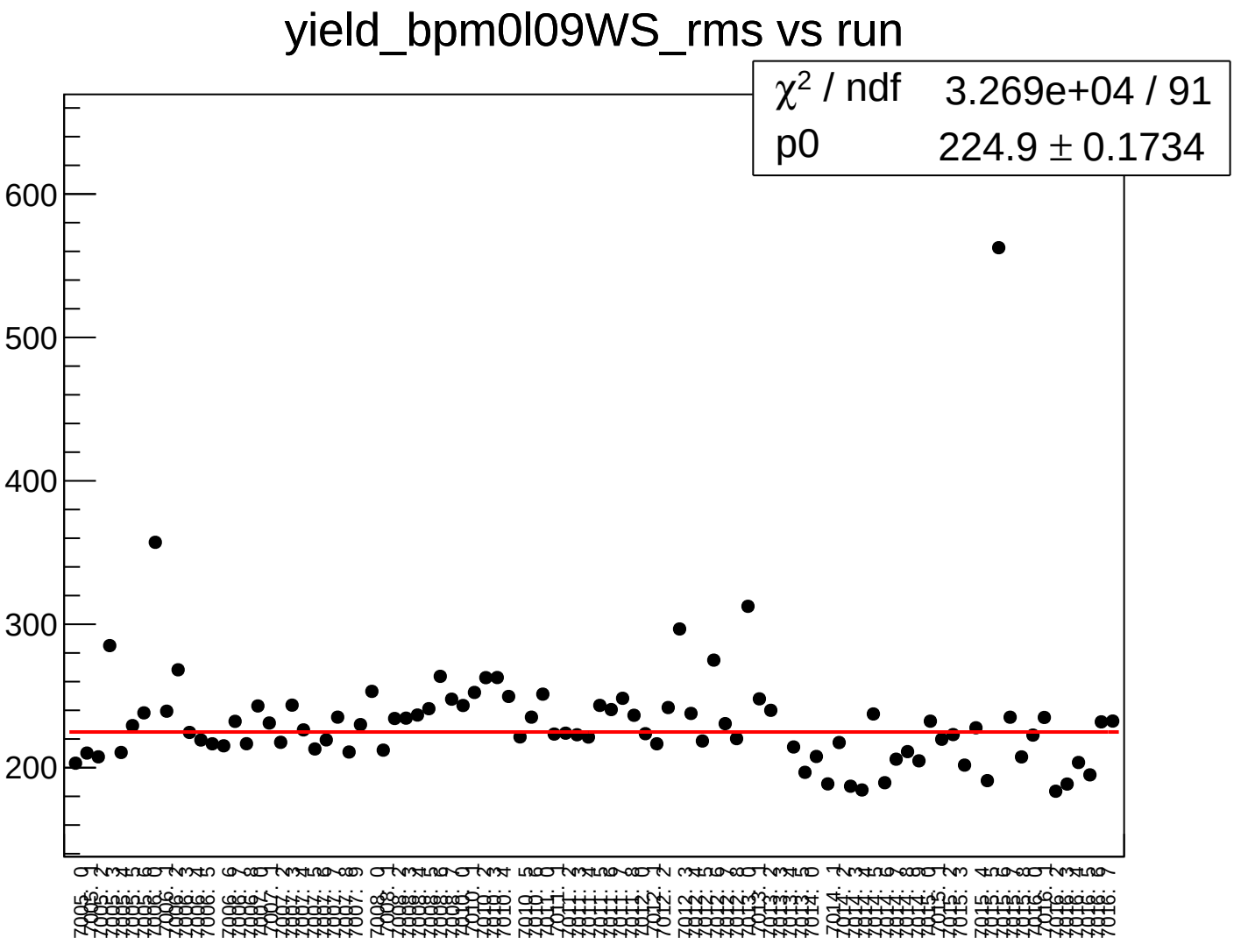

yield_bpm0l07WS_rms vs run
$\chi^2$ / ndf 2.553e+04 / 91
p0 217.1 ± 0.167
600
550
500
450
400
350
300
250
200
150

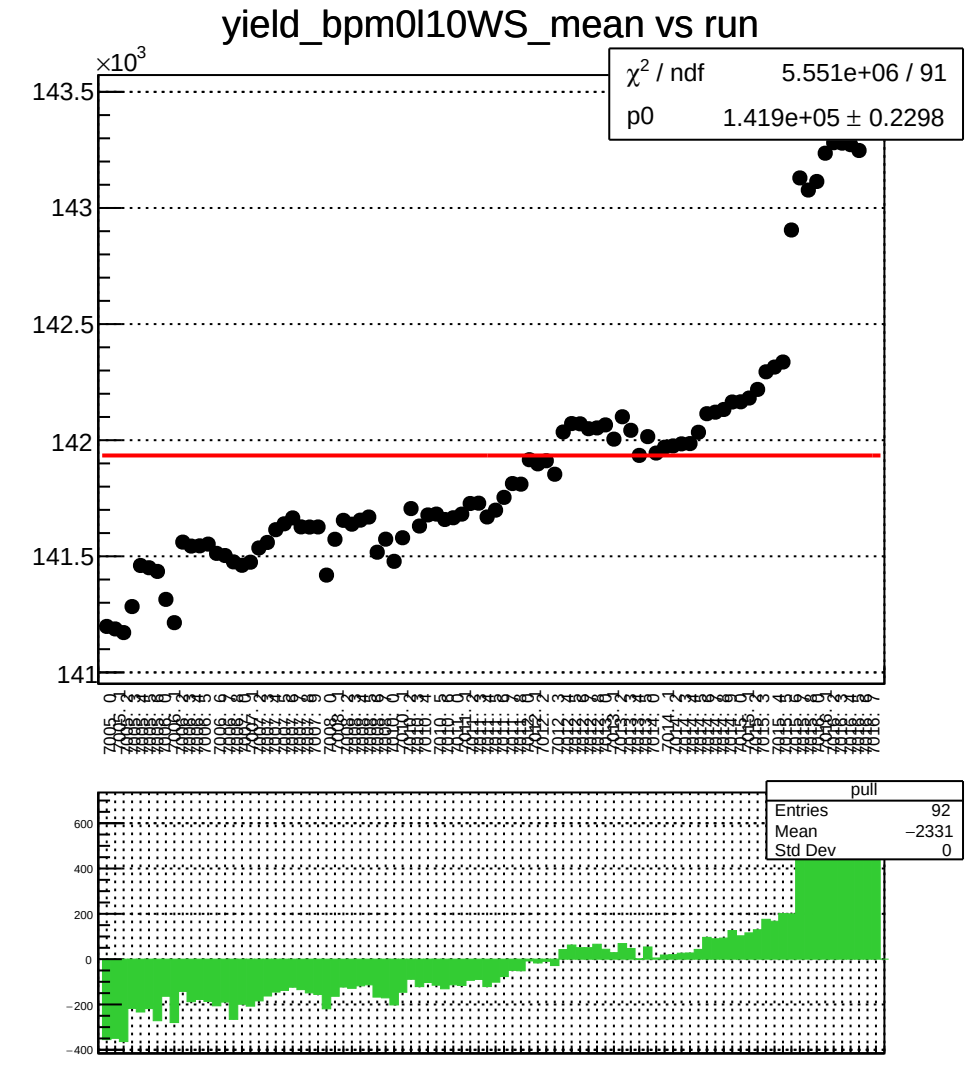

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 9.895e+06 / 91
p0 1.447e+05 ± 0.2366
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 92
Mean −1340
Std Dev 0
800
600
400
200
0
−200
−400

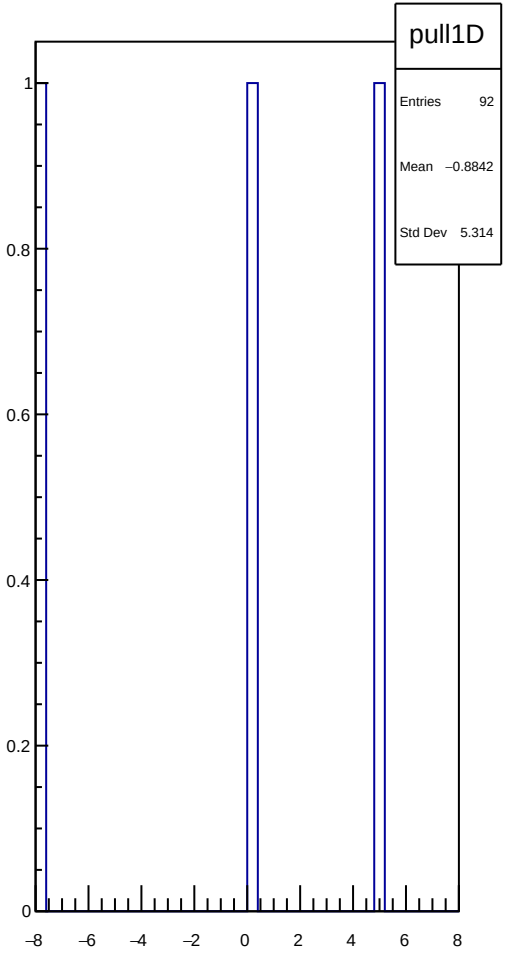

pull1D
Entries 92
Mean 4.985
Std Dev 2.062
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

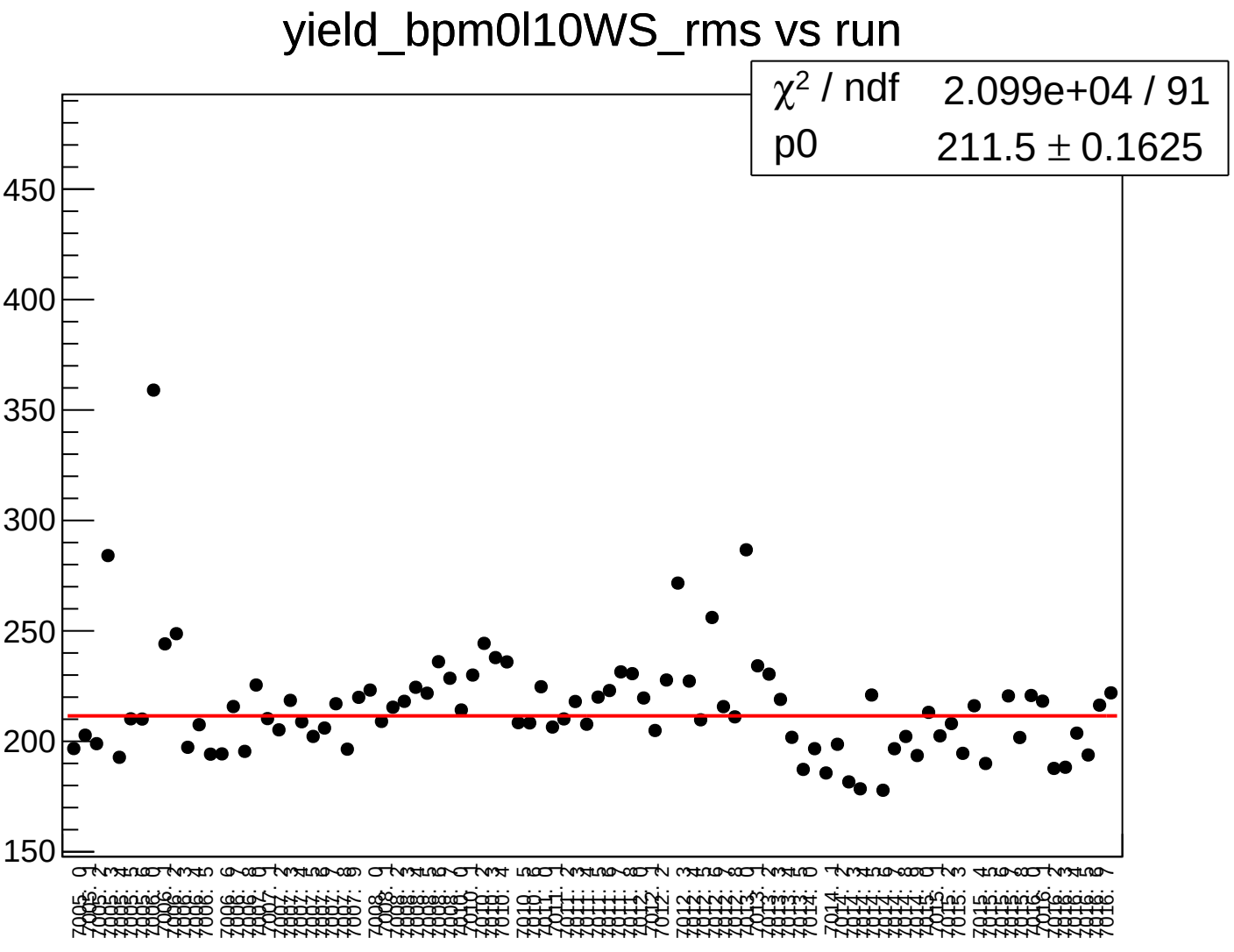

yield_bpm0l08WS_rms vs run
χ² / ndf 2.452e+04 / 91
p0 217.6 ± 0.1673
600
500
400
300
200

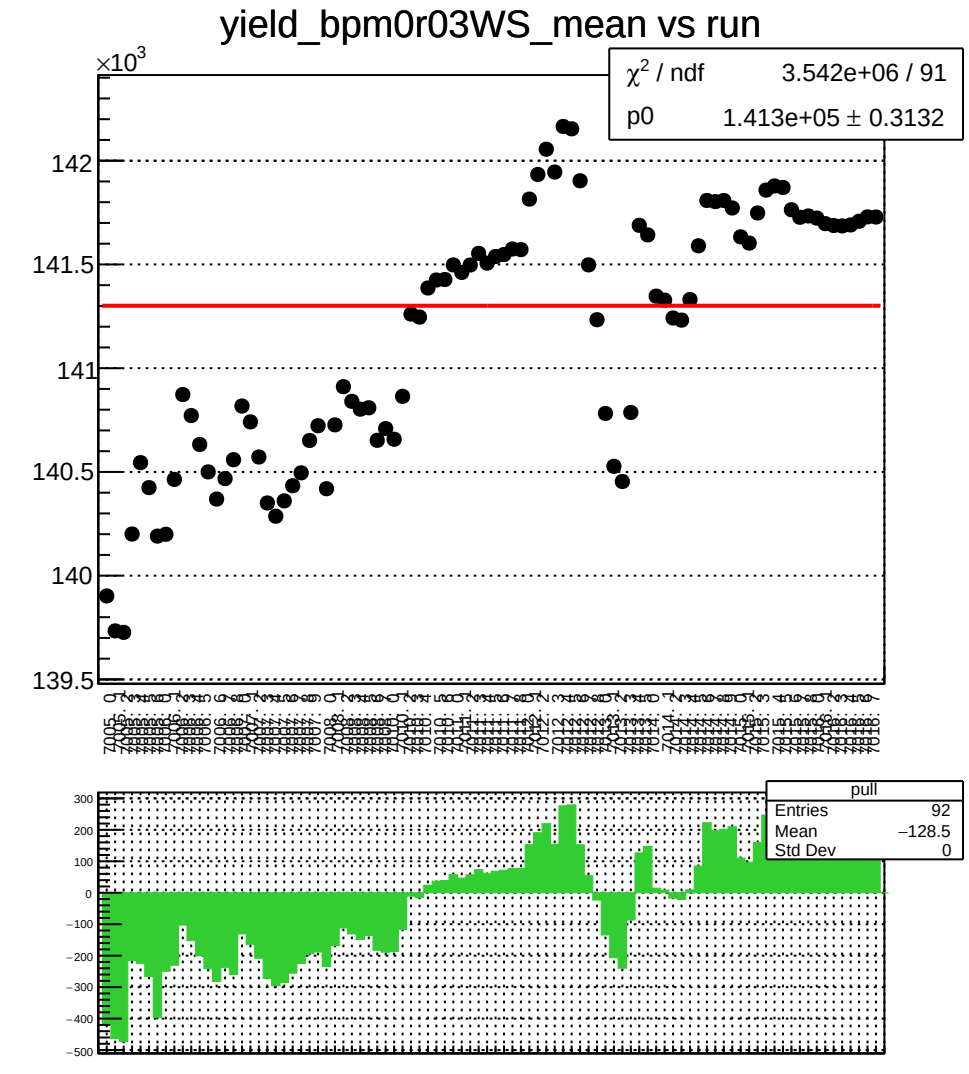

yield_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 1.521e+07 / 91
p0 1.45e+05 ± 0.2452
146
145.5
145
144.5
144
143.5
143
pull
Entries 92
Mean −408.8
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

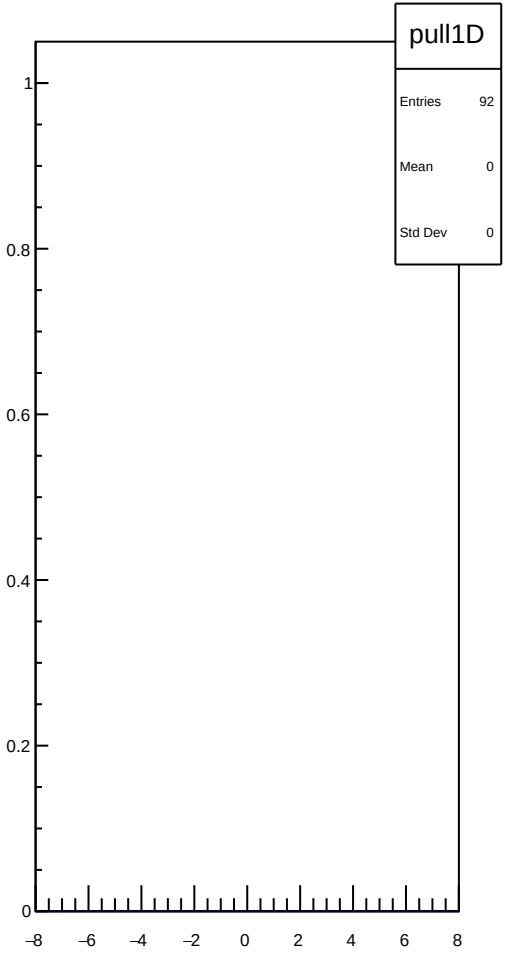

yield_bpm0l09WS_rms vs run
χ² / ndf 3.269e+04 / 91
p0 224.9 ± 0.1734
600
500
400
300
200

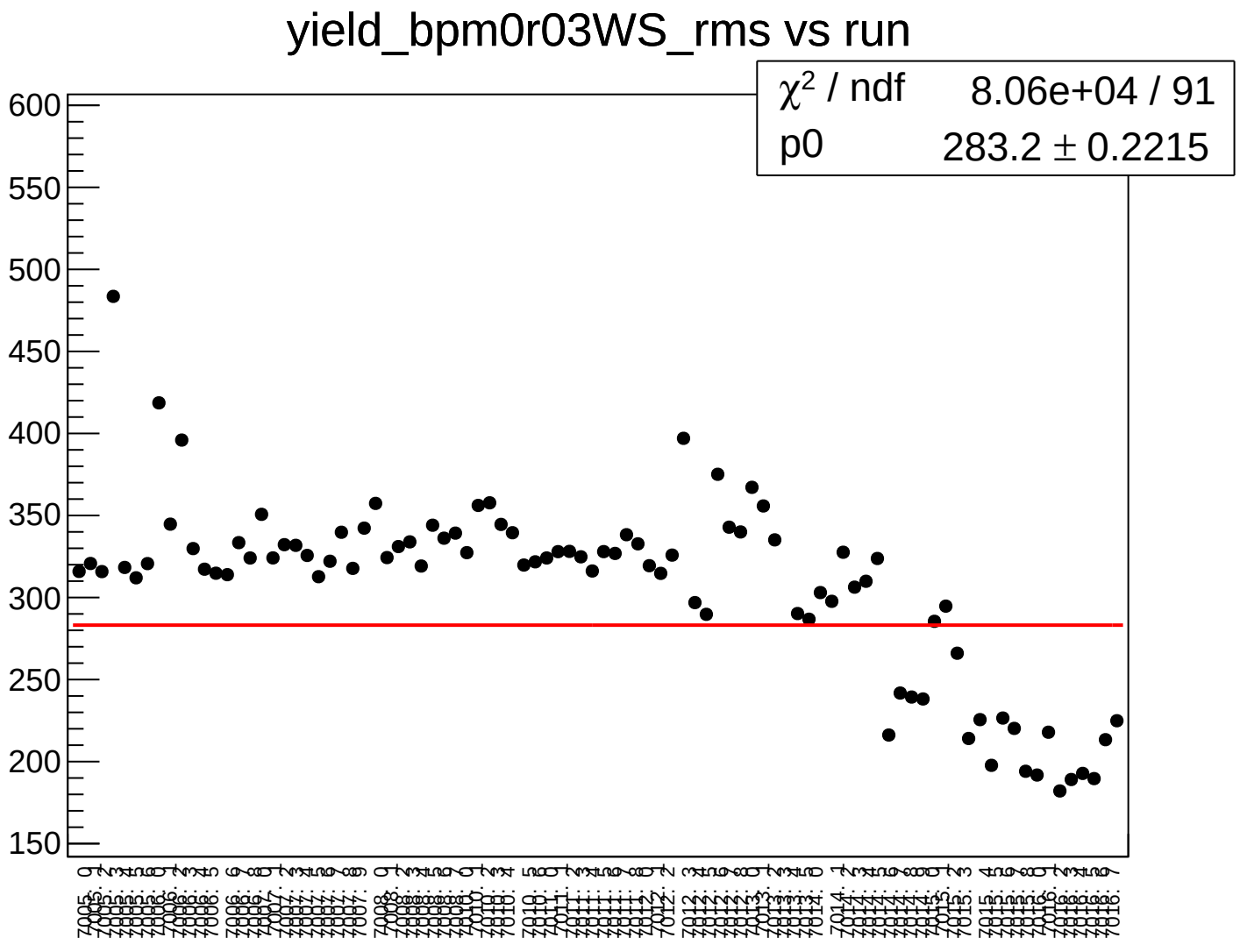

yield_bpm0l10WS_mean vs run
×10^3
143.5
143
142.5
142
141.5
141
χ² / ndf 5.551e+06 / 91
p0 1.419e+05 ± 0.2298
pull
Entries 92
Mean −2331
Std Dev 0
600
400
200
0
−200
−400

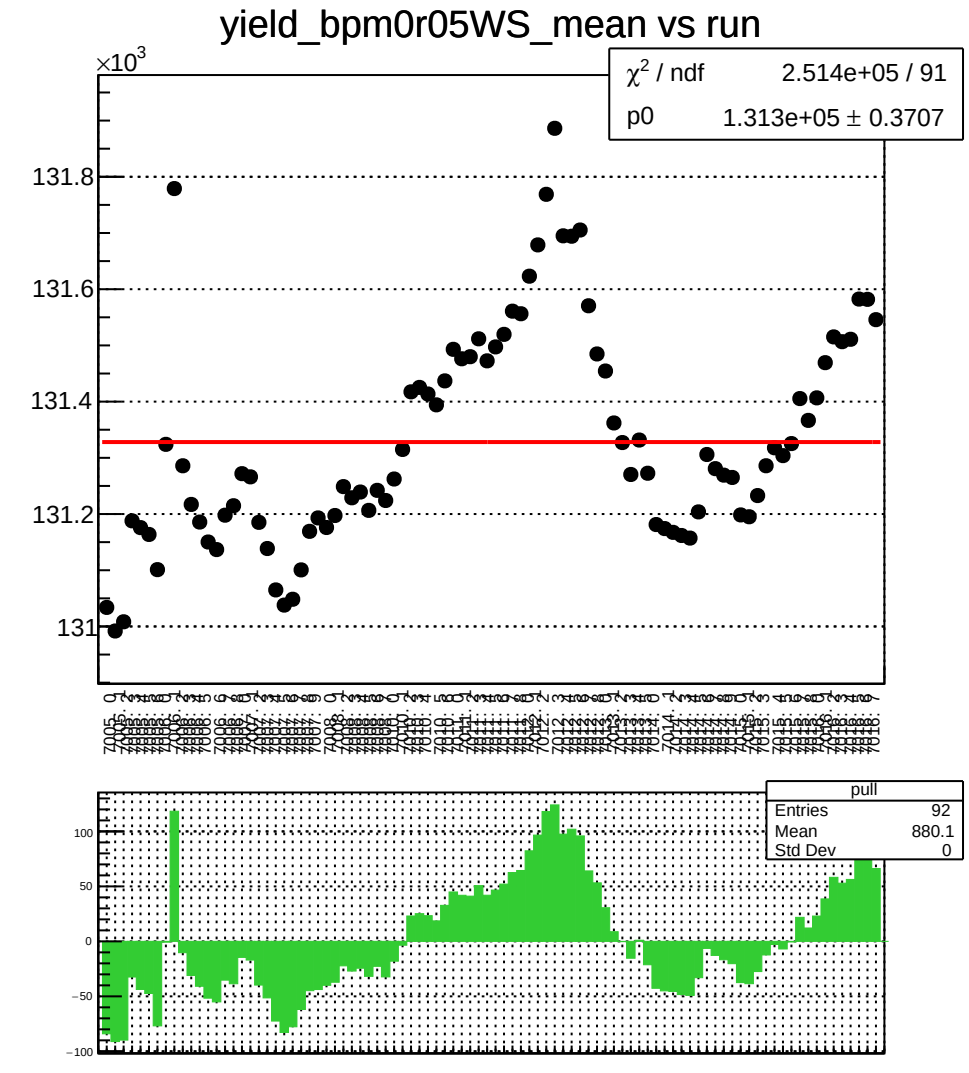

pull1D
Entries 92
Mean −0.8842
Std Dev 5.314
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

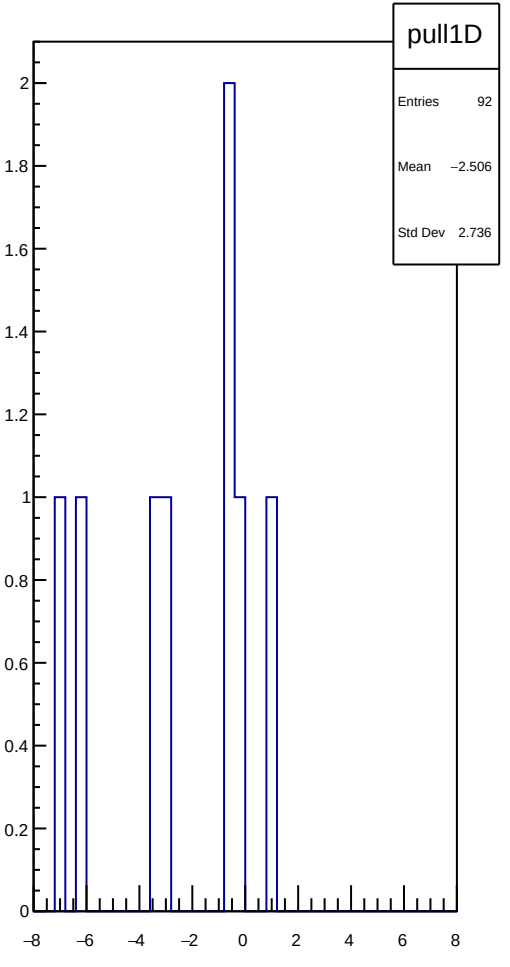

yield_bpm0l10WS_rms vs run
χ² / ndf 2.099e+04 / 91
p0 211.5 ± 0.1625
450
400
350
300
250
200
150

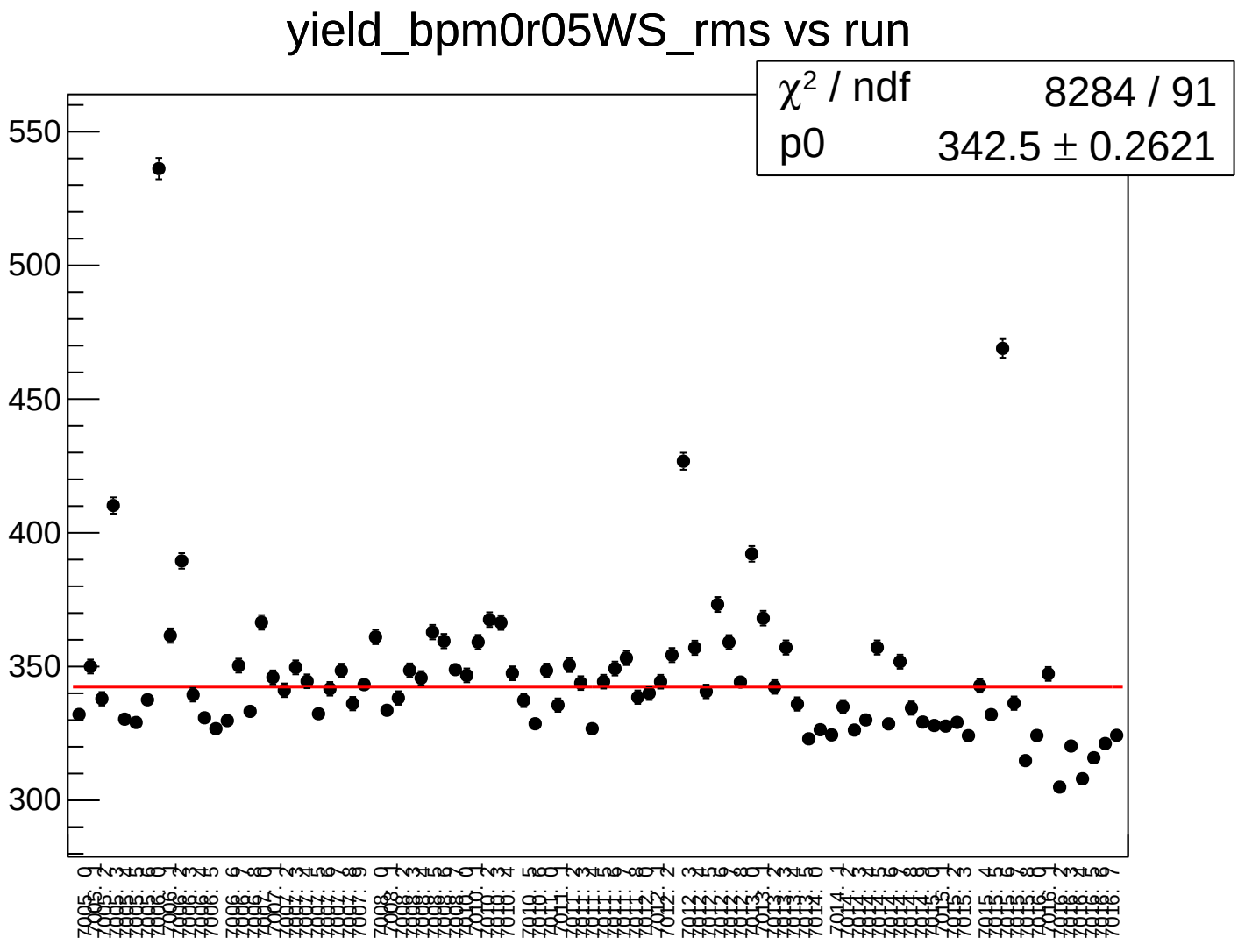

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 3.542e+06 / 91
p0 1.413e+05 ± 0.3132
142
141.5
141
140.5
140
139.5
pull
Entries 92
Mean −128.5
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

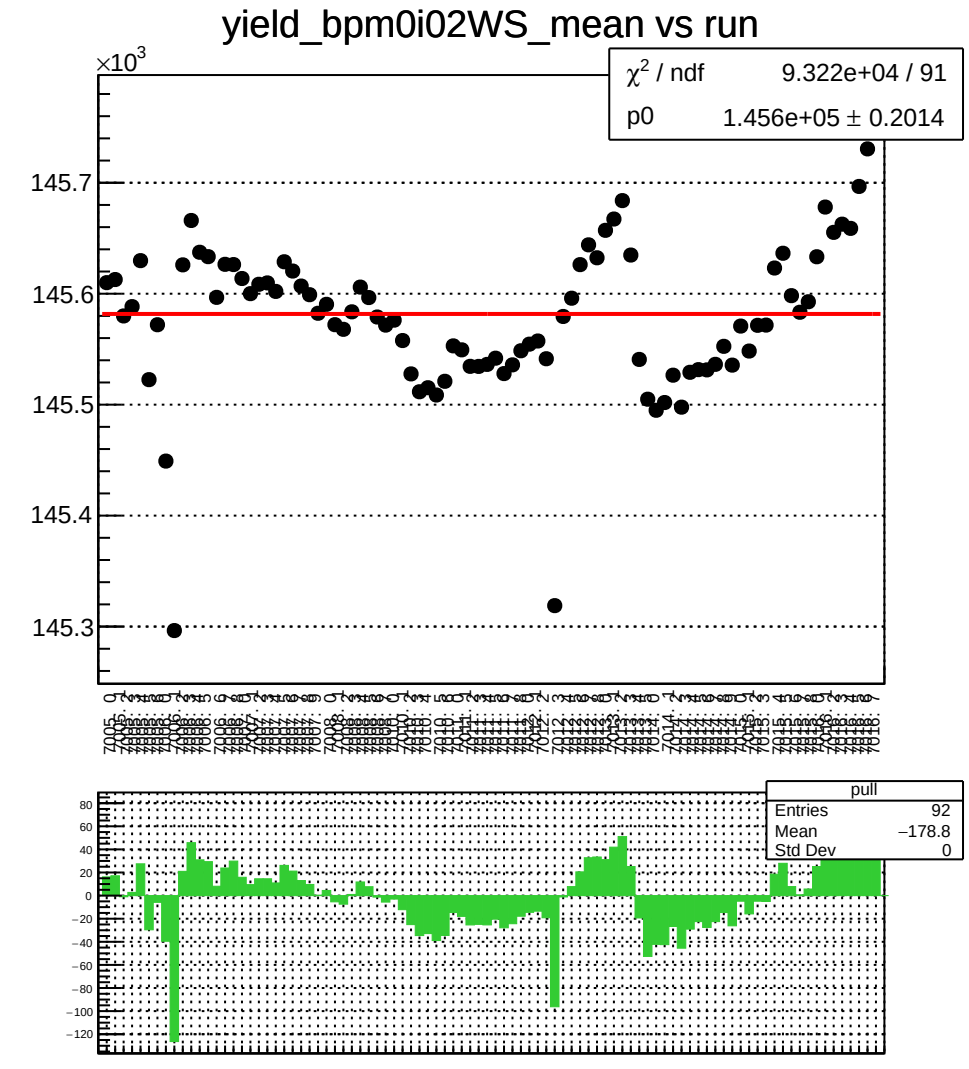

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

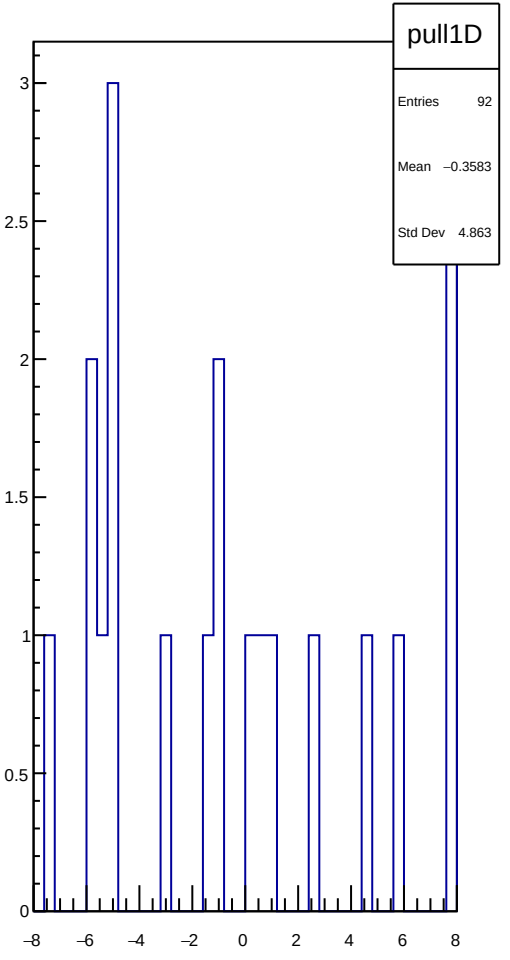

yield_bpm0r03WS_rms vs run
$\chi^2$ / ndf 8.06e+04 / 91
p0 283.2 ± 0.2215
600
550
500
450
400
350
300
250
200
150

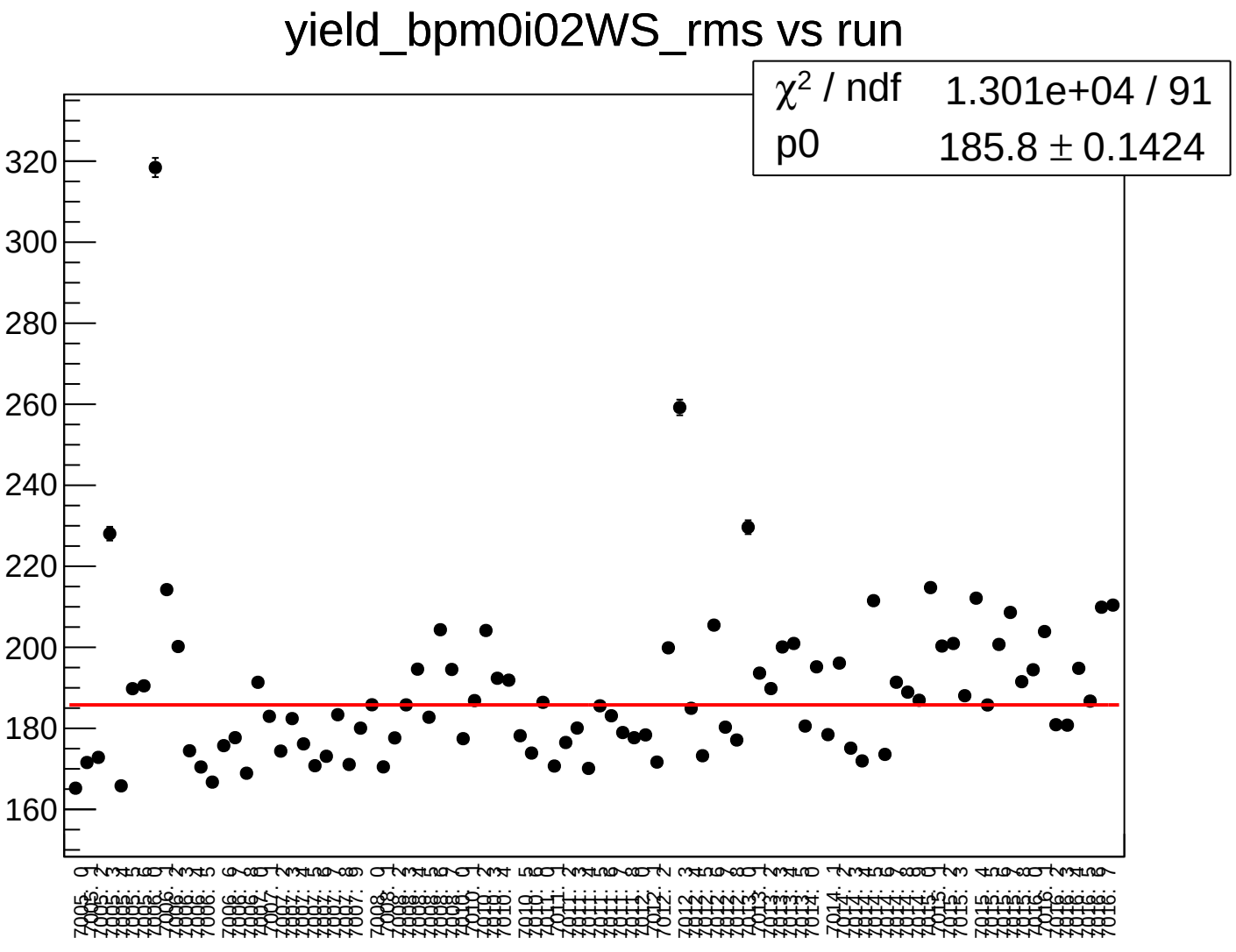

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 2.514e+05 / 91
p0 1.313e+05 ± 0.3707
131.8
131.6
131.4
131.2
131
pull
Entries 92
Mean 880.1
Std Dev 0
100
50
0
−50
−100

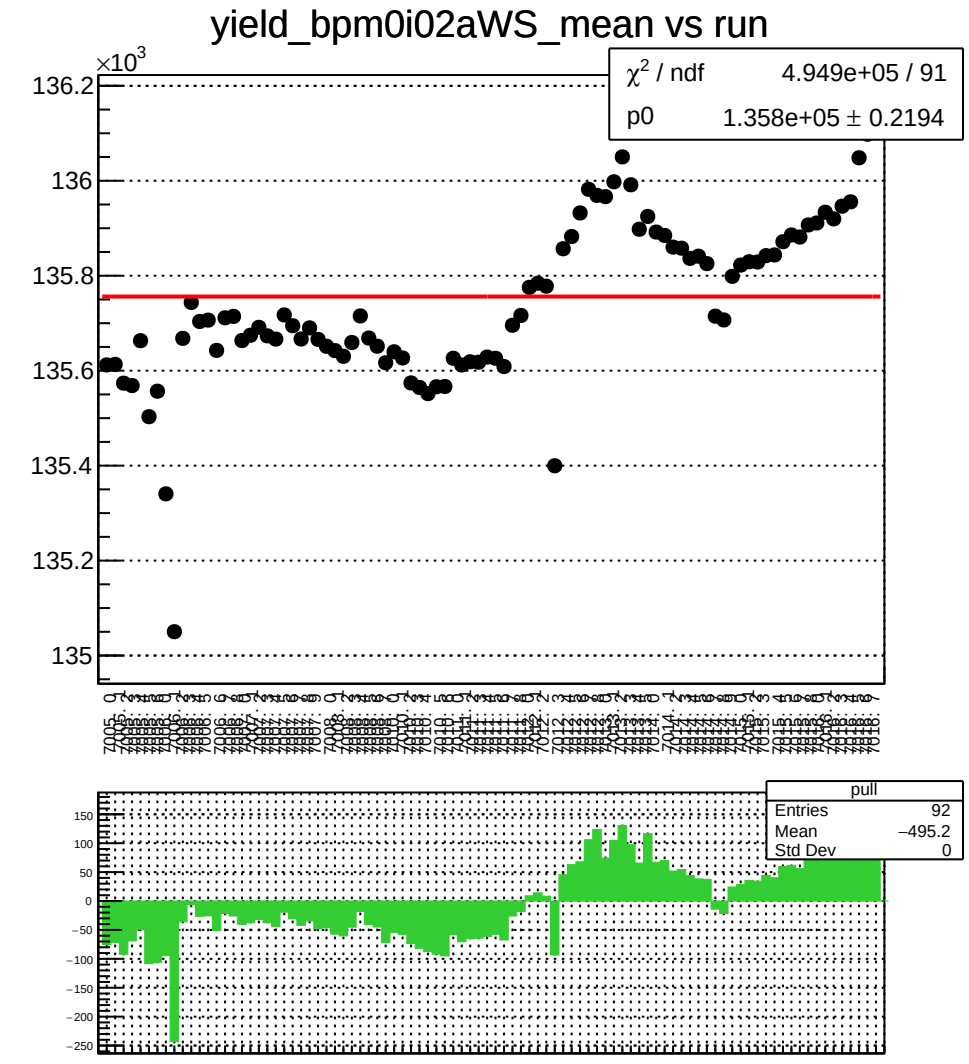

pull1D
Entries 92
Mean −2.506
Std Dev 2.736
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

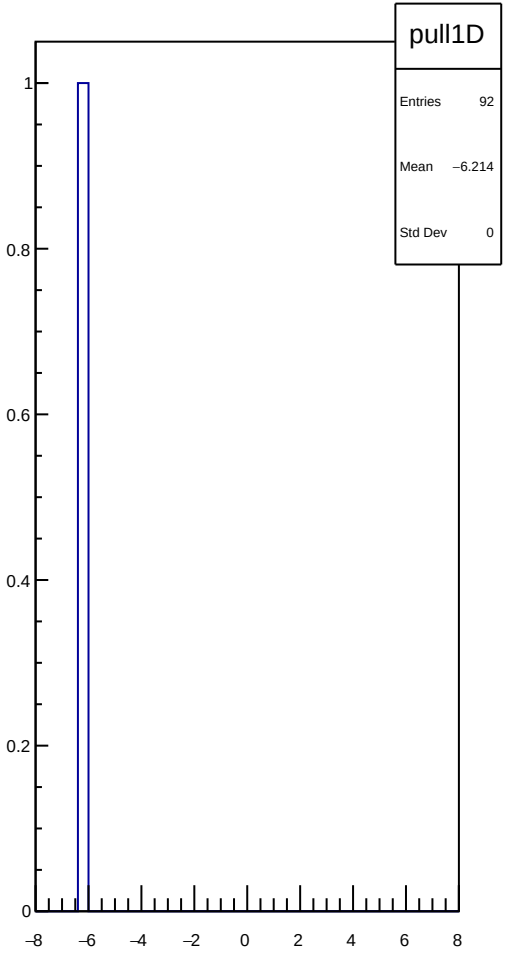

yield_bpm0r05WS_rms vs run
χ² / ndf 8284 / 91
p0 342.5 ± 0.2621
550
500
450
400
350
300

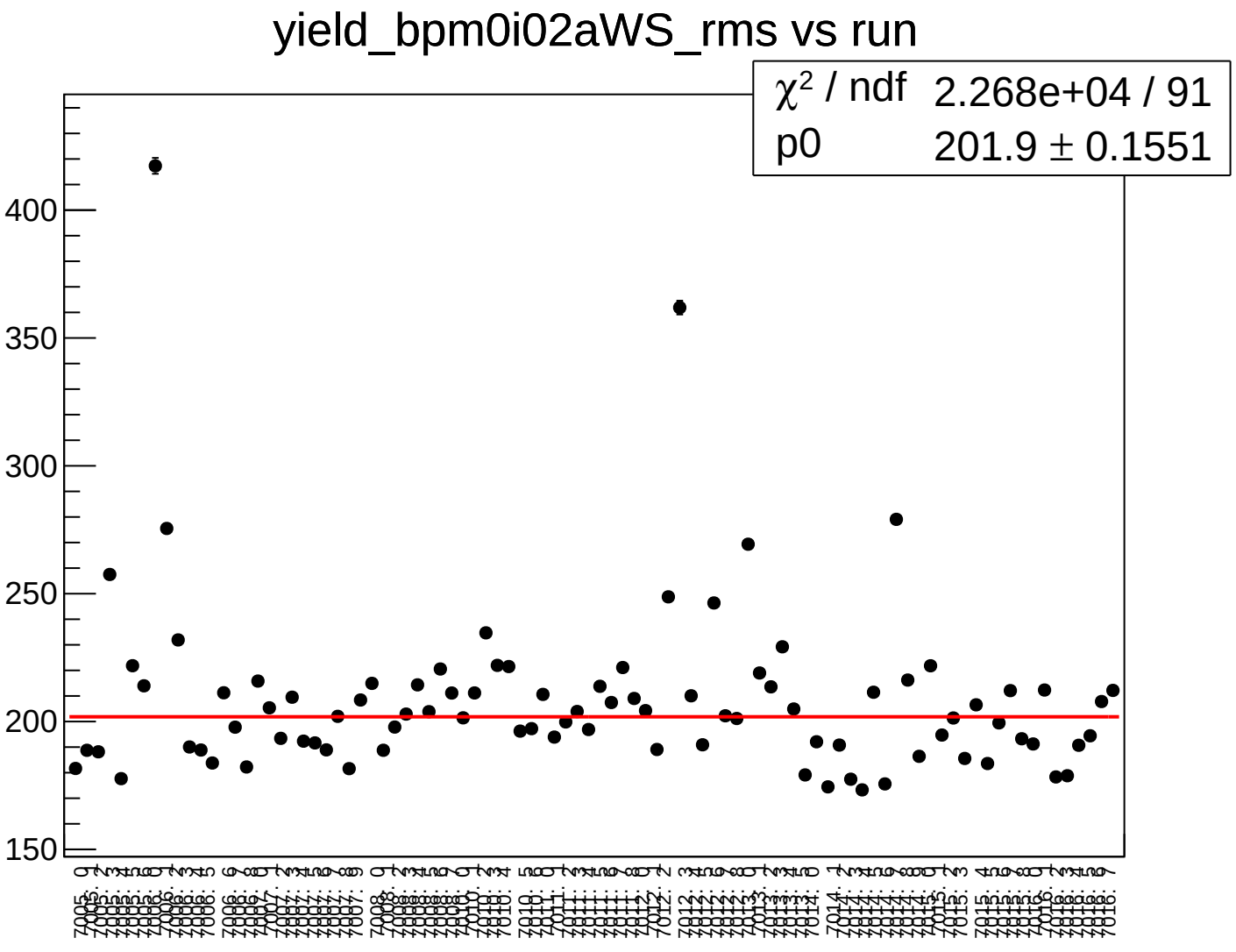

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 9.322e+04 / 91
p0 1.456e+05 ± 0.2014
145.7
145.6
145.5
145.4
145.3
pull
Entries 92
Mean −178.8
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

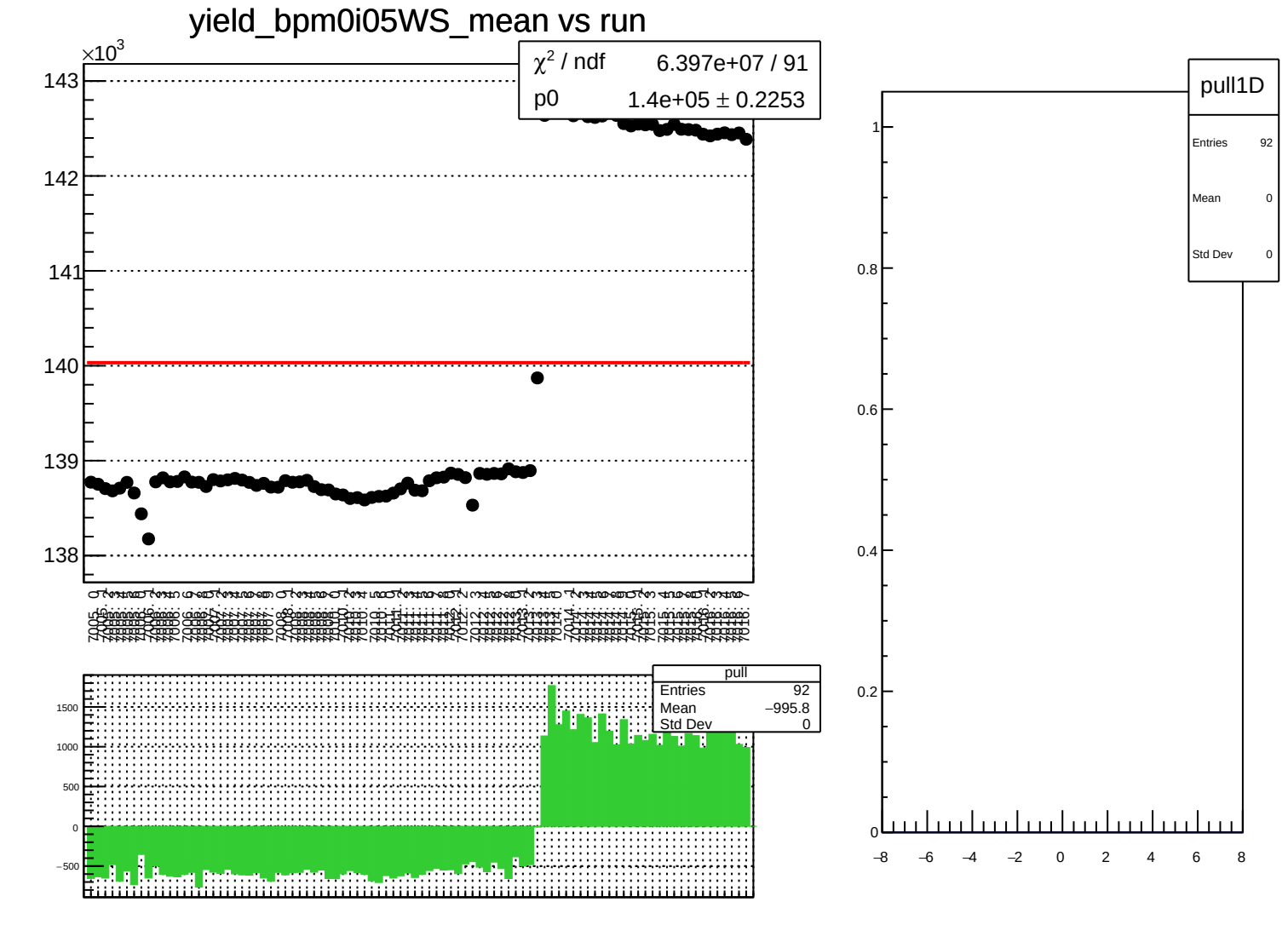

pull1D
Entries 92
Mean −0.3583
Std Dev 4.863
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

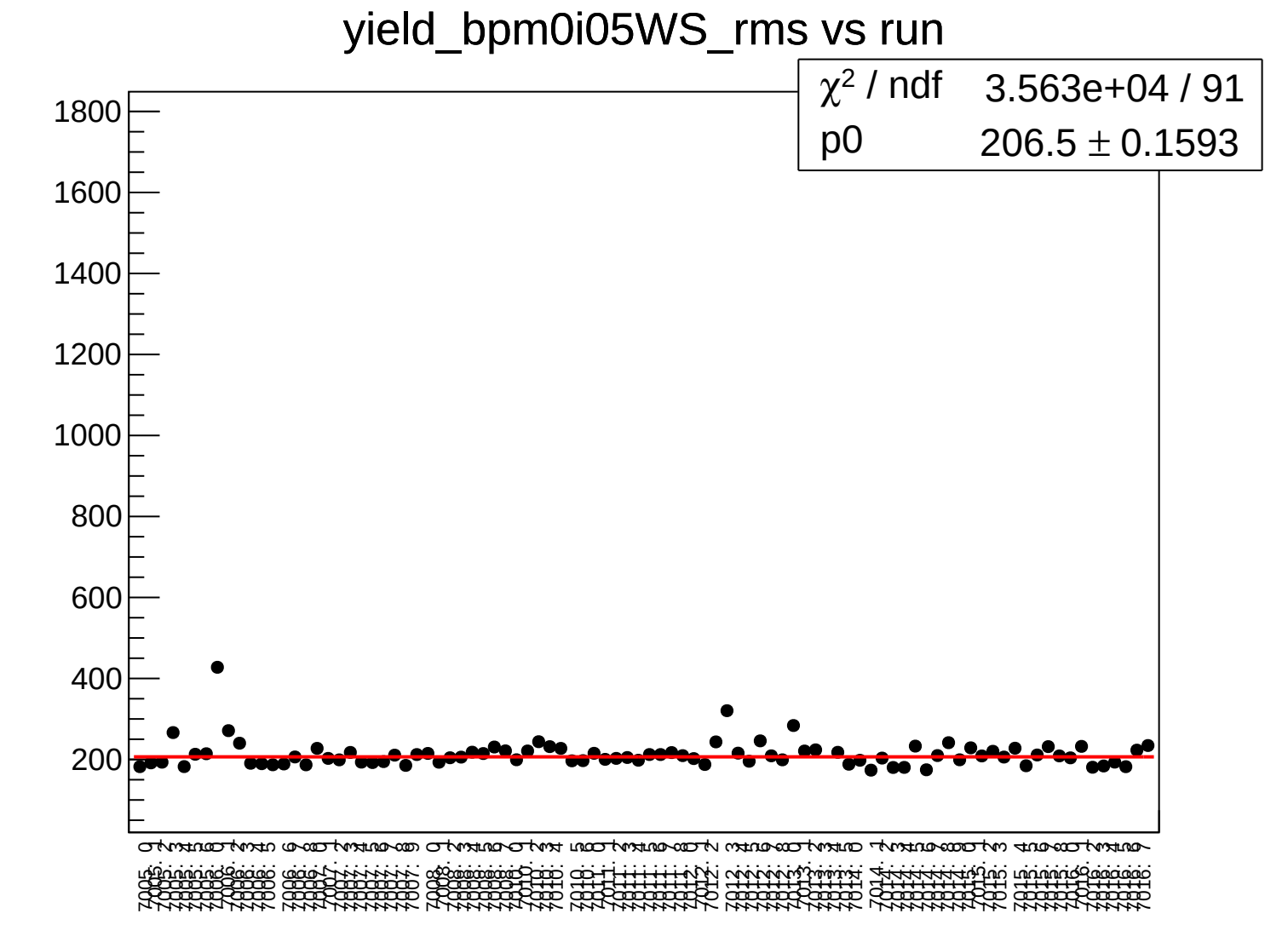

yield_bpm0i02WS_rms vs run
χ² / ndf 1.301e+04 / 91
p0 185.8 ± 0.1424
320
300
280
260
240
220
200
180
160

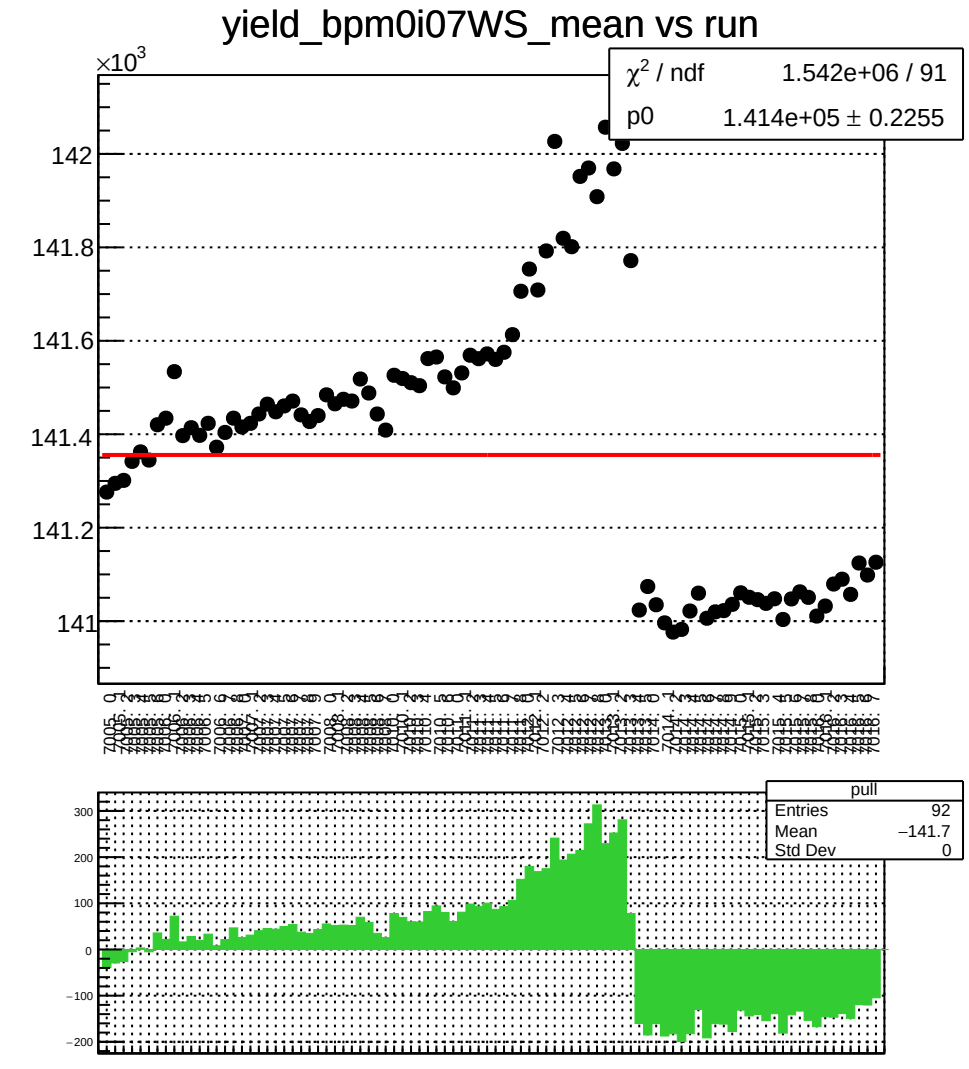

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 4.949e+05 / 91
p0 1.358e+05 ± 0.2194
136.2
136
135.8
135.6
135.4
135.2
135
pull
Entries 92
Mean −495.2
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

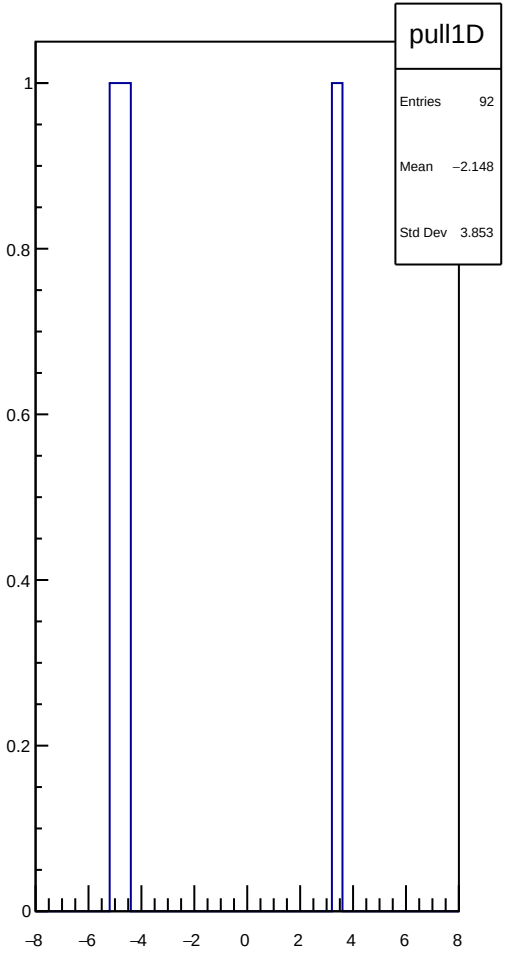

pull1D
Entries 92
Mean −6.214
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

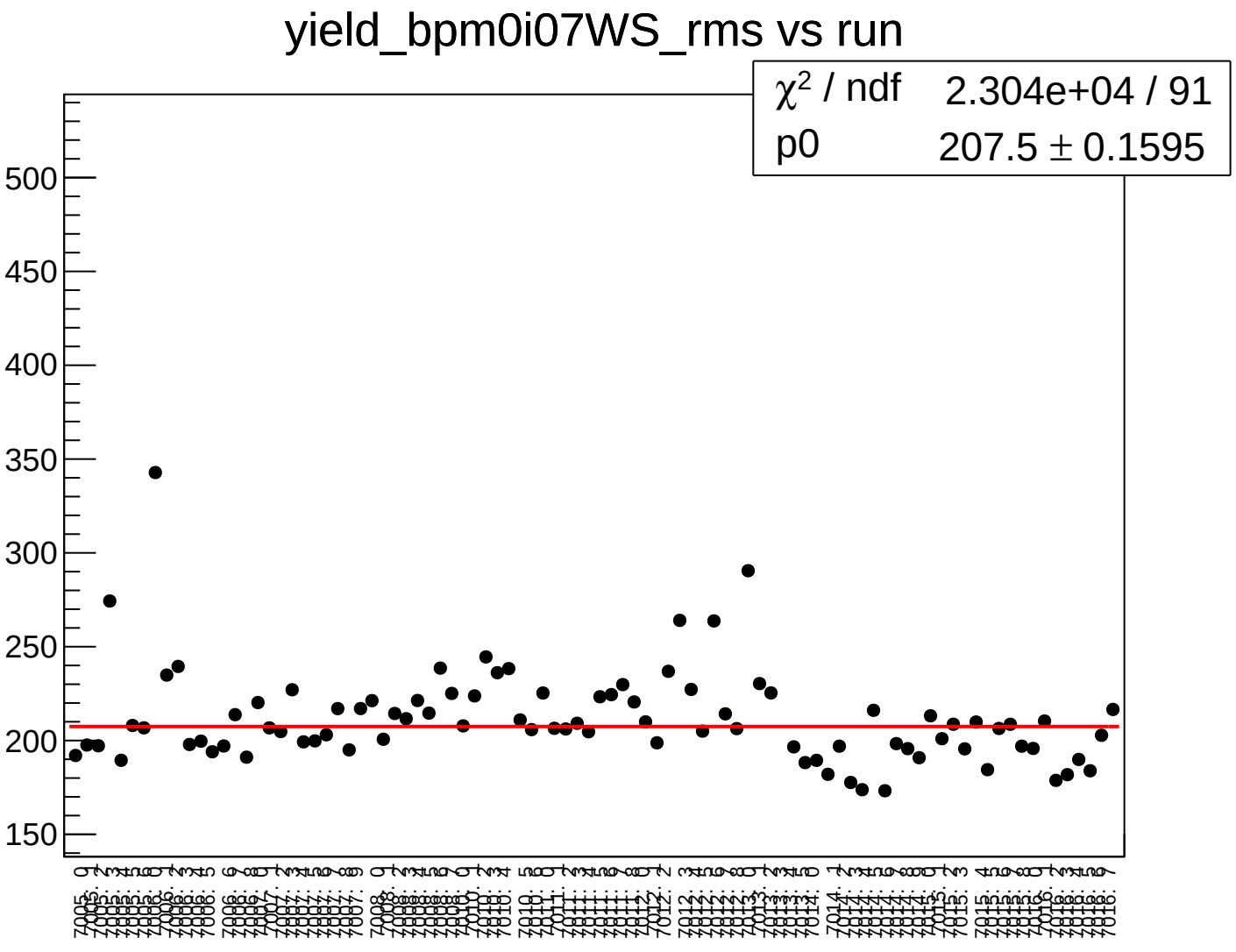

yield_bpm0i02aWS_rms vs run
χ² / ndf 2.268e+04 / 91
p0 201.9 ± 0.1551
400
350
300
250
200
150

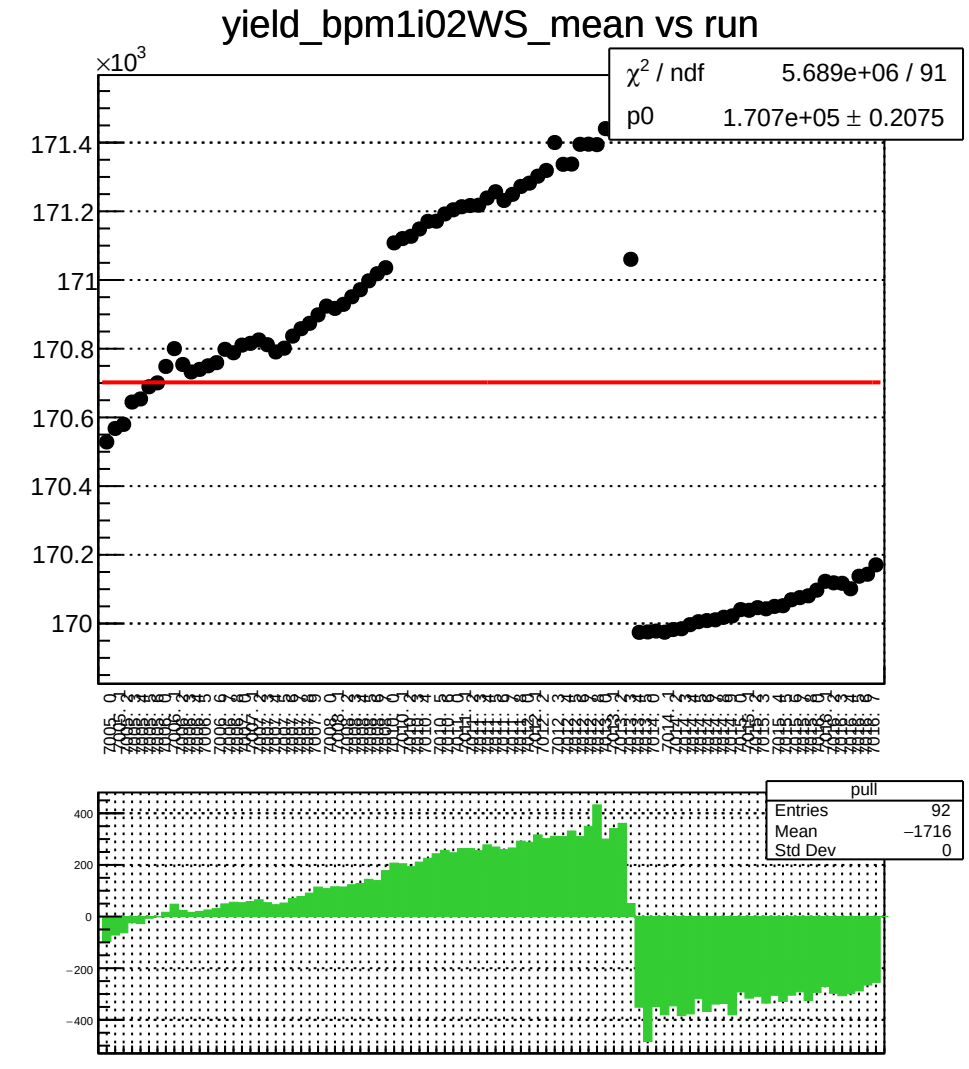

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 6.397e+07 / 91
p0 1.4e+05 ± 0.2253
143
142
141
140
139
138
pull
Entries 92
Mean −995.8
Std Dev 0
1500
1000
500
0
−500
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

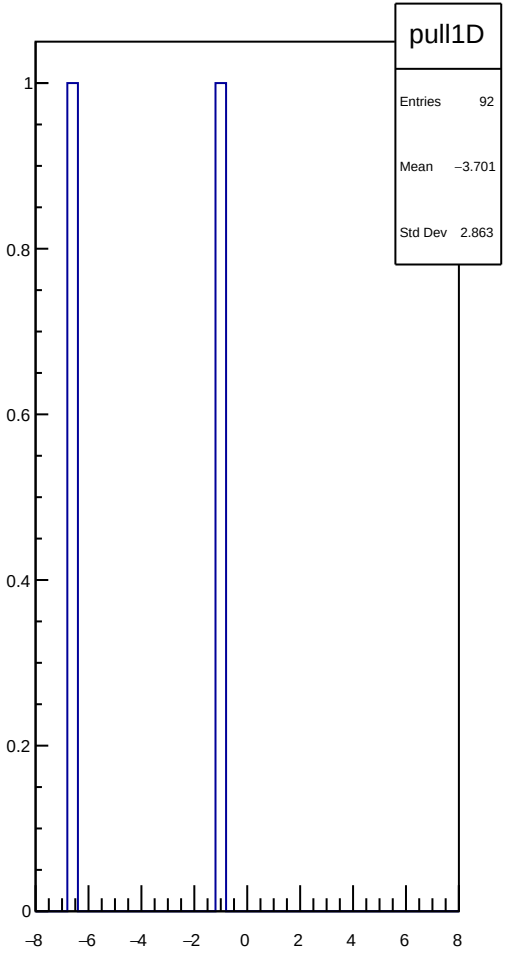

yield_bpm0i05WS_rms vs run
χ² / ndf 3.563e+04 / 91
p0 206.5 ± 0.1593
1800
1600
1400
1200
1000
800
600
400
200

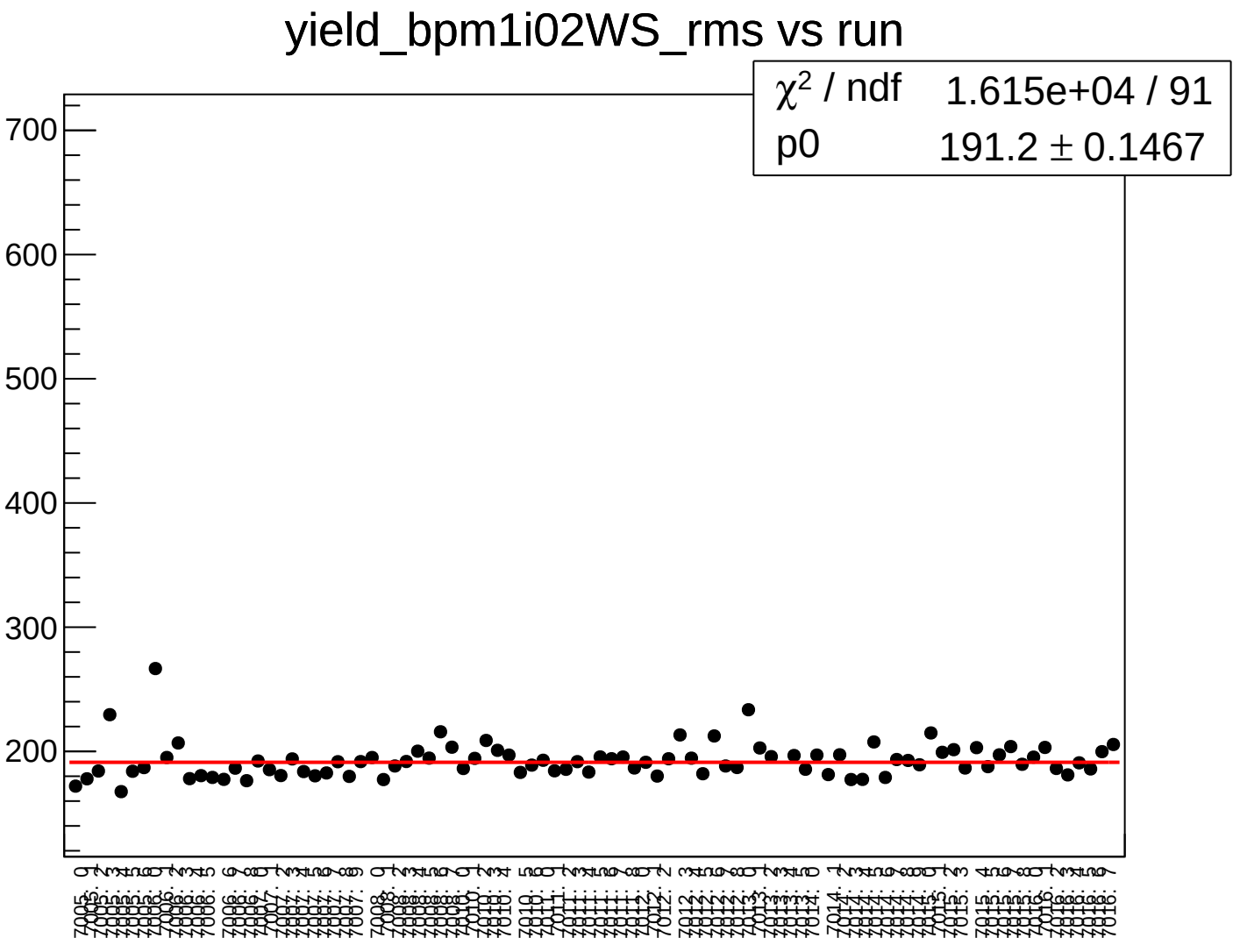

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.542e+06 / 91
p0 1.414e+05 ± 0.2255
142
141.8
141.6
141.4
141.2
141
pull
Entries 92
Mean −141.7
Std Dev 0
300
200
100
0
−100
−200

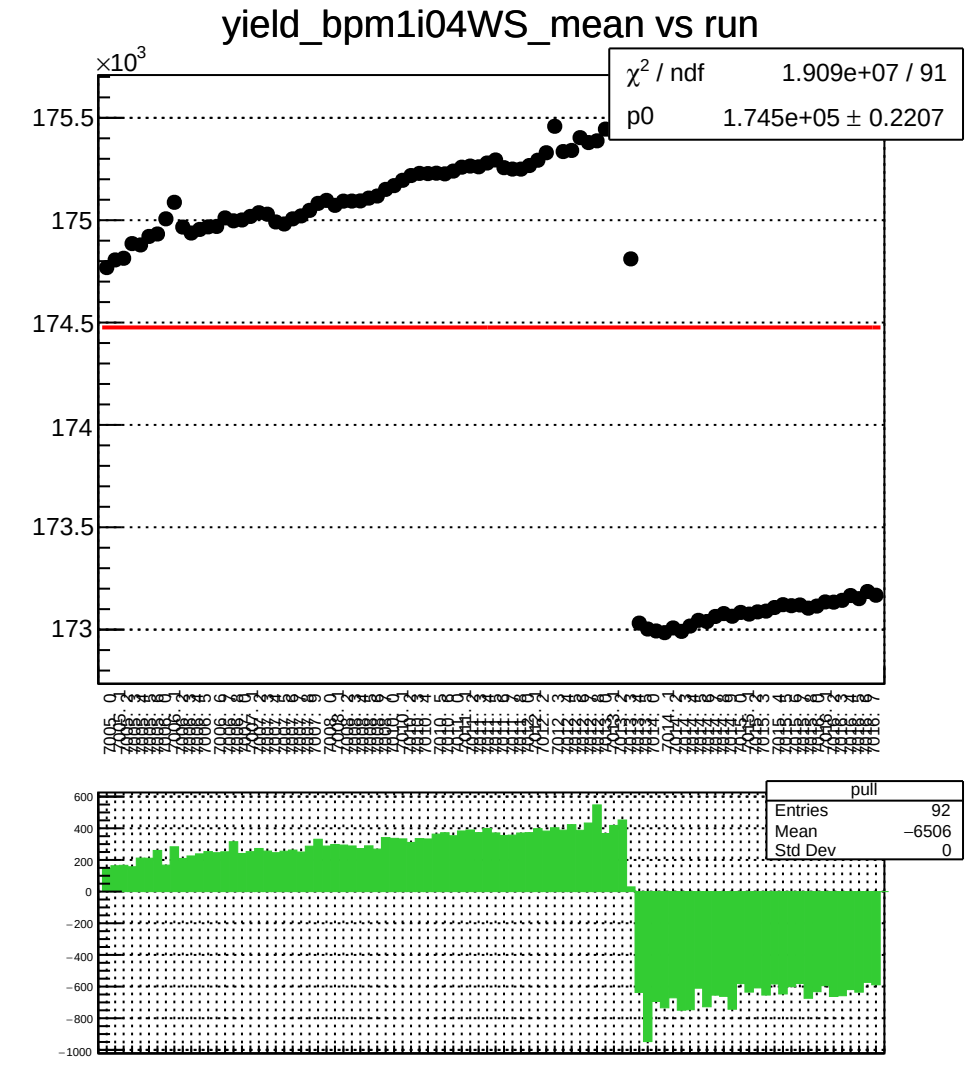

pull1D
Entries 92
Mean −2.148
Std Dev 3.853
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

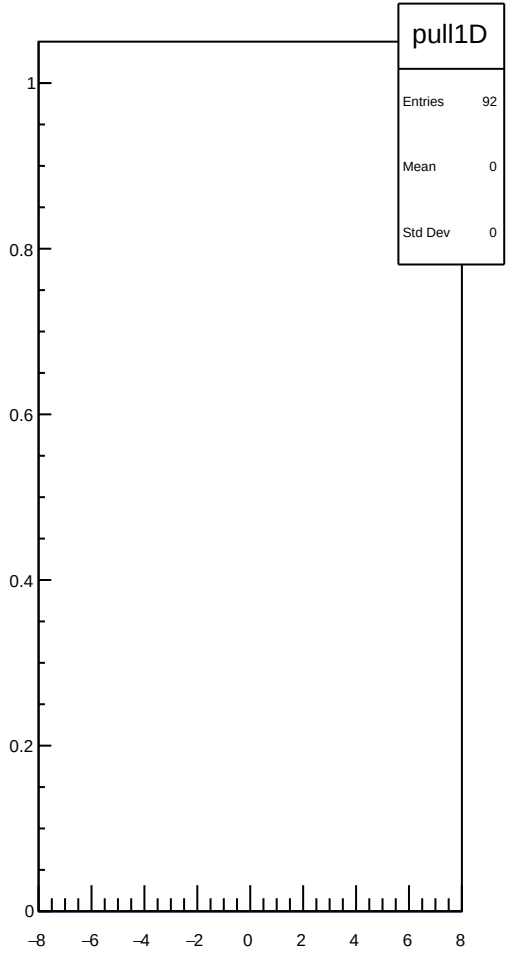

yield_bpm0i07WS_rms vs run
χ² / ndf 2.304e+04 / 91
p0 207.5 ± 0.1595
500
450
400
350
300
250
200
150

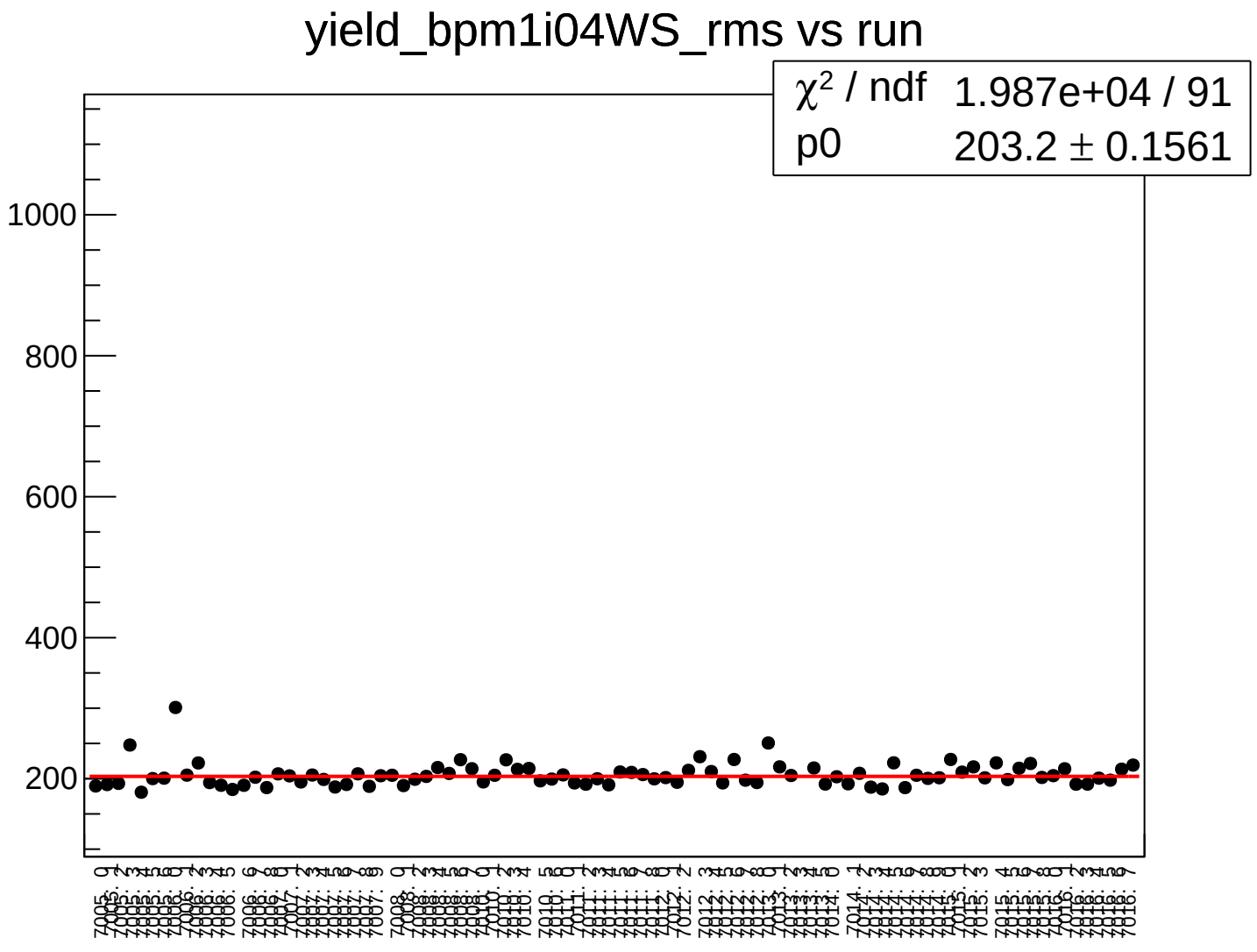

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 5.689e+06 / 91
p0 1.707e+05 ± 0.2075
171.4
171.2
171
170.8
170.6
170.4
170.2
170
pull
Entries 92
Mean −1716
Std Dev 0
400
200
0
−200
−400

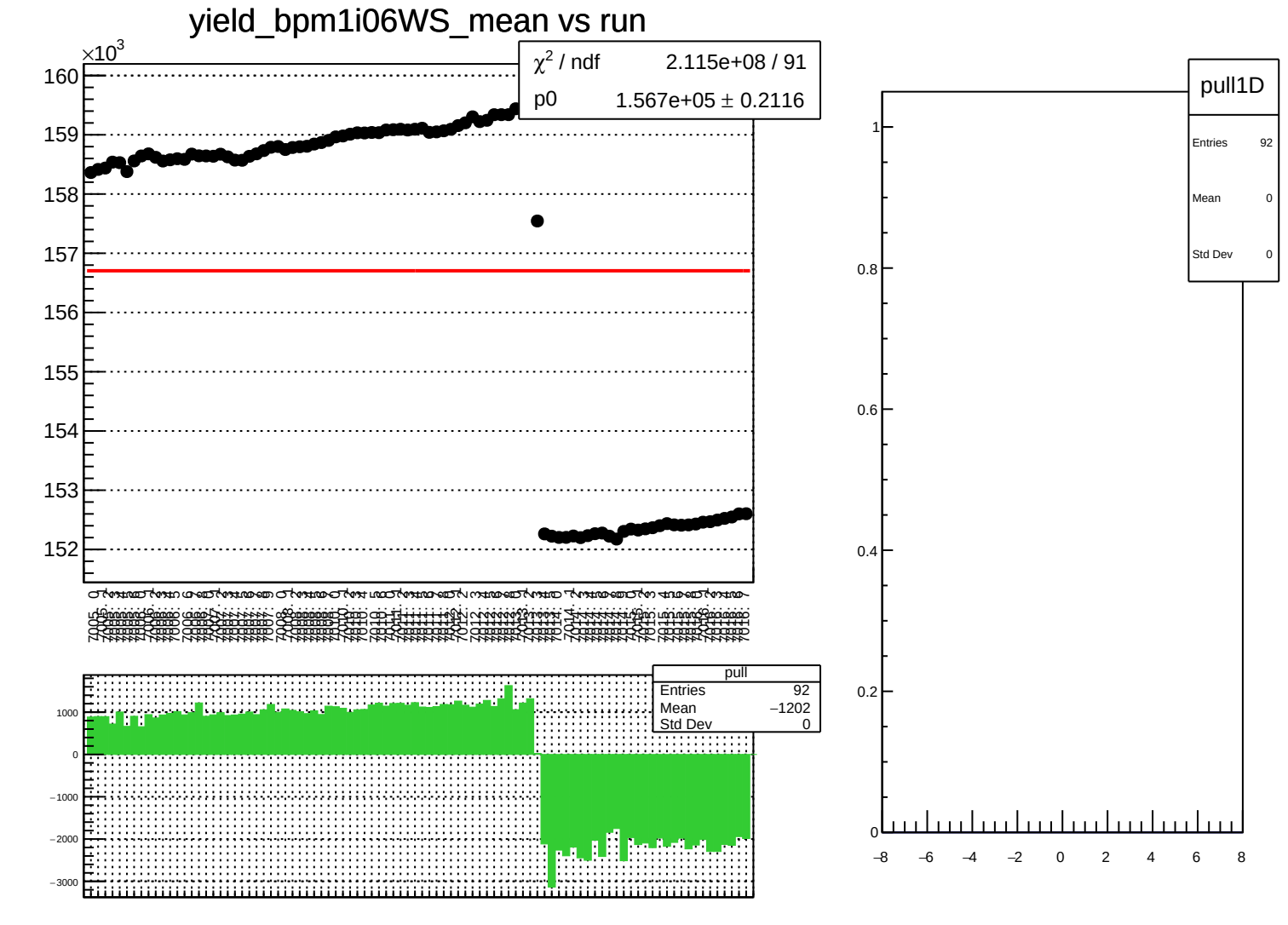

pull1D
Entries 92
Mean −3.701
Std Dev 2.863
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

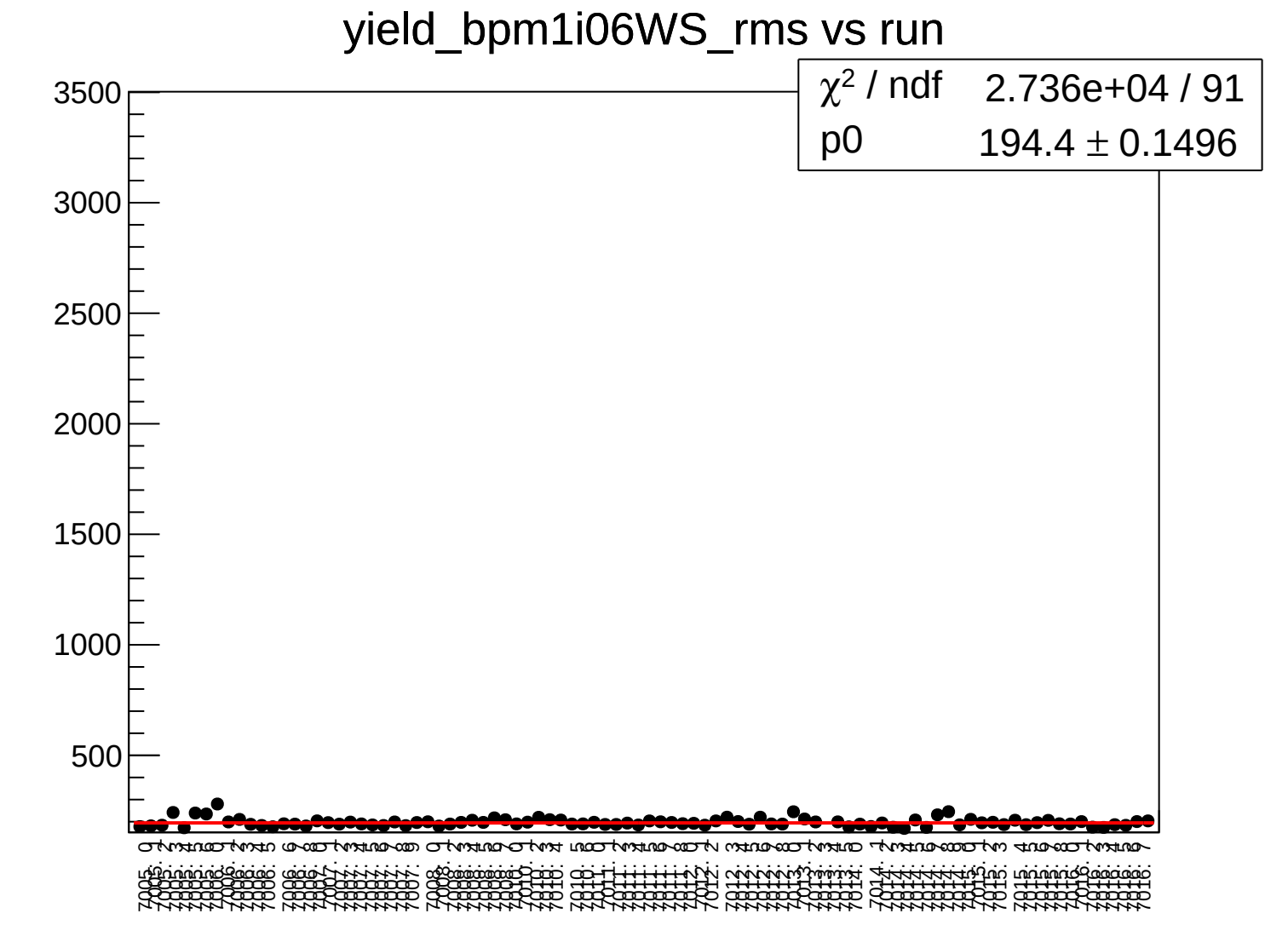

yield_bpm1i02WS_rms vs run
χ² / ndf 1.615e+04 / 91
p0 191.2 ± 0.1467
700
600
500
400
300
200

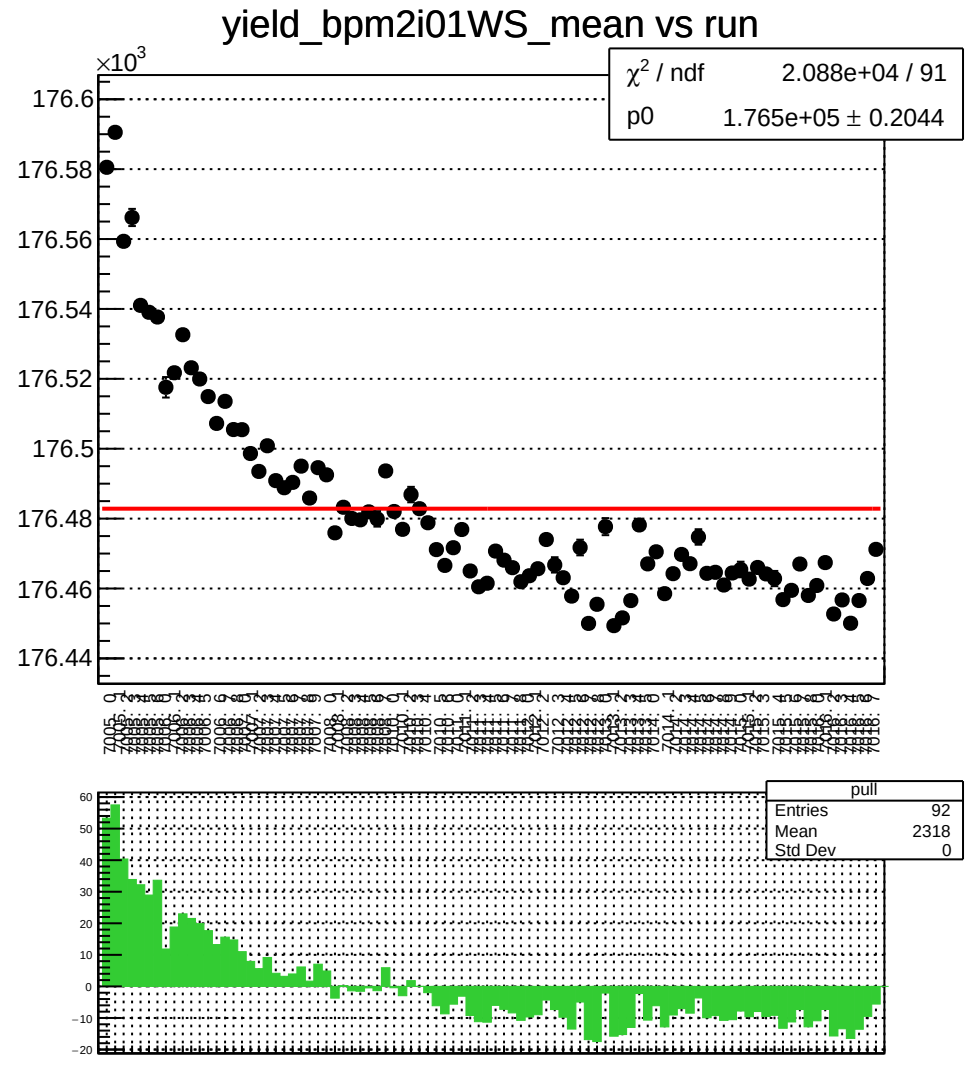

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.909e+07 / 91
p0 1.745e+05 ± 0.2207
175.5
175
174.5
174
173.5
173
pull
Entries 92
Mean −6506
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

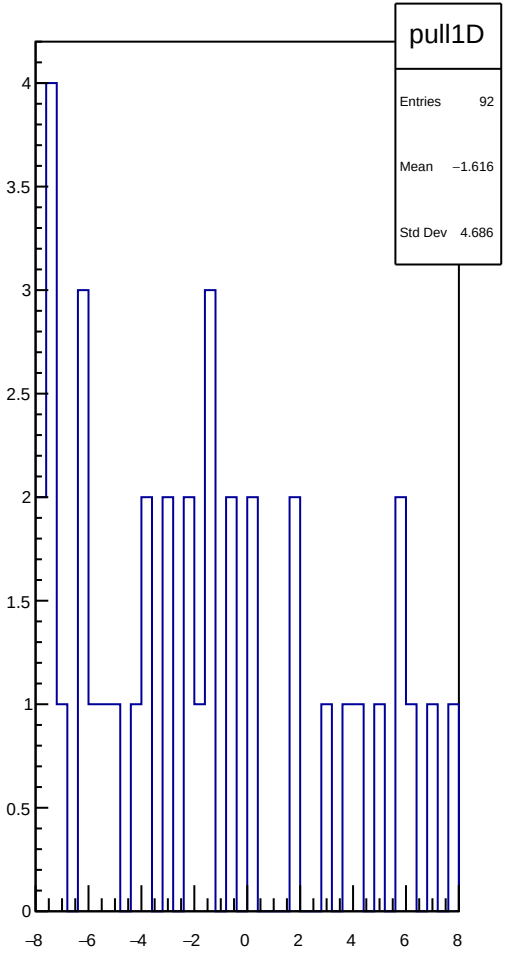

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

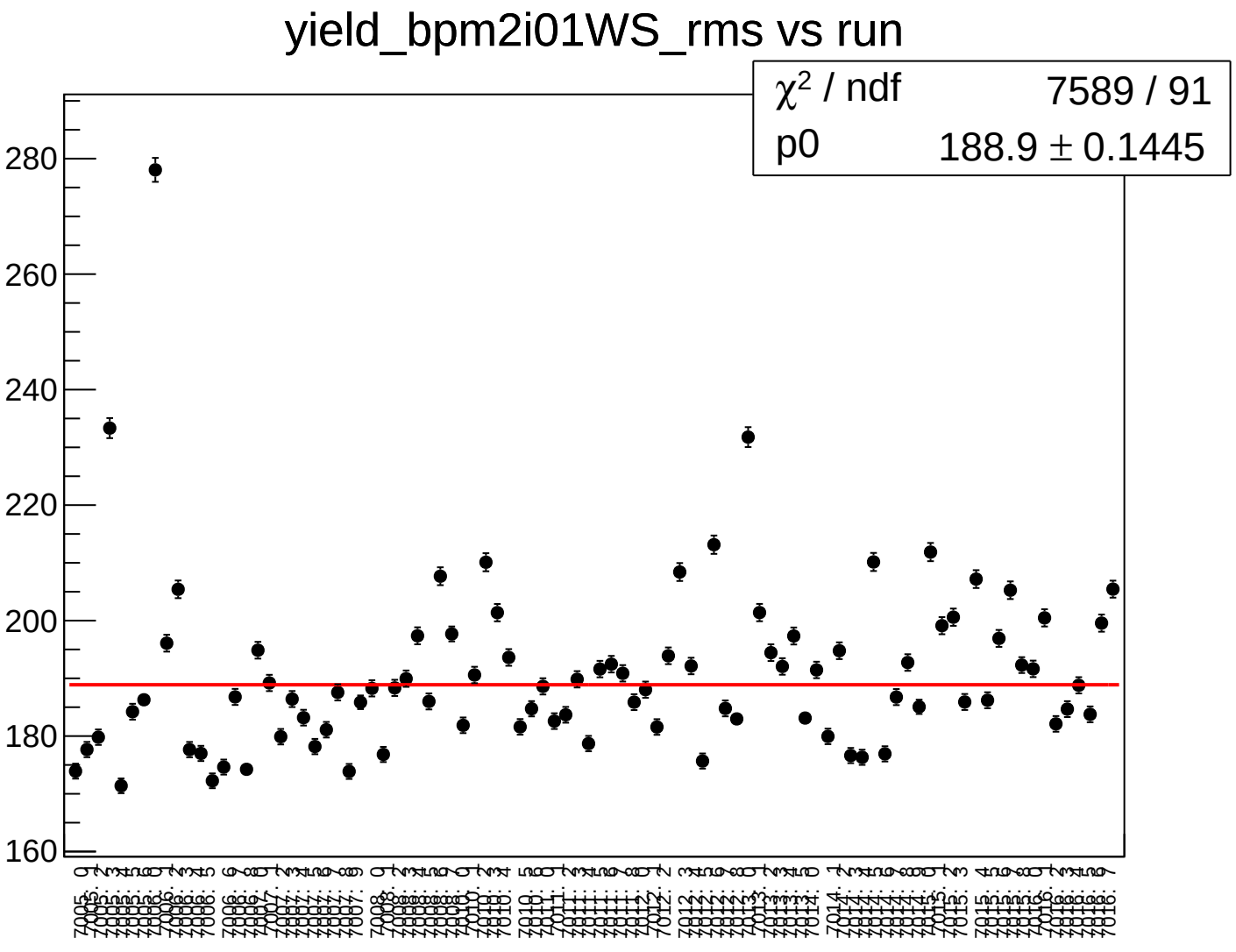

yield_bpm1i04WS_rms vs run
χ² / ndf 1.987e+04 / 91
p0 203.2 ± 0.1561
1000
800
600
400
200

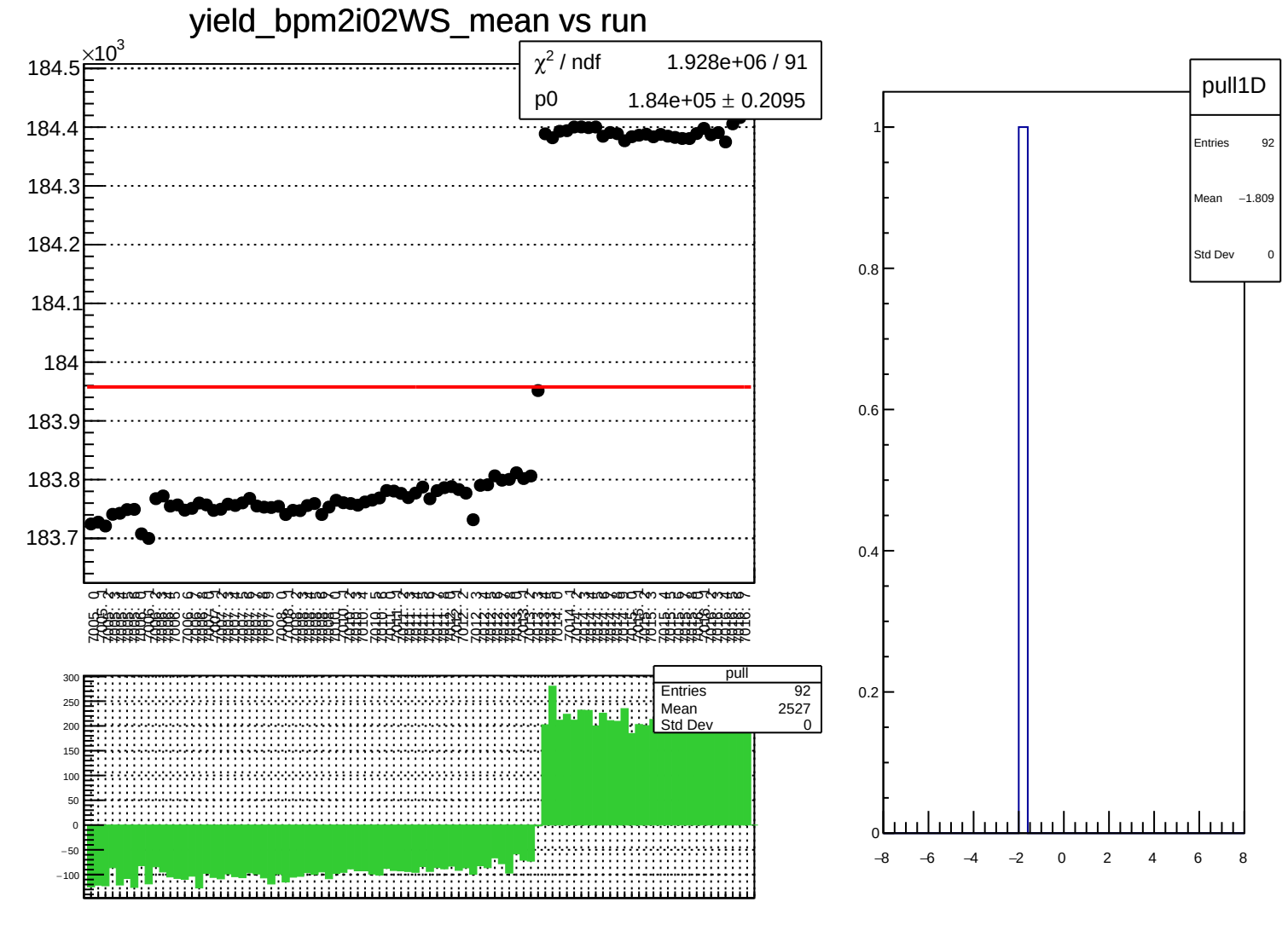

yield_bpm1i06WS_mean vs run
×10^3
160
159
158
157
156
155
154
153
152
χ² / ndf 2.115e+08 / 91
p0 1.567e+05 ± 0.2116
pull
Entries 92
Mean −1202
Std Dev 0
1000
0
−1000
−2000
−3000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

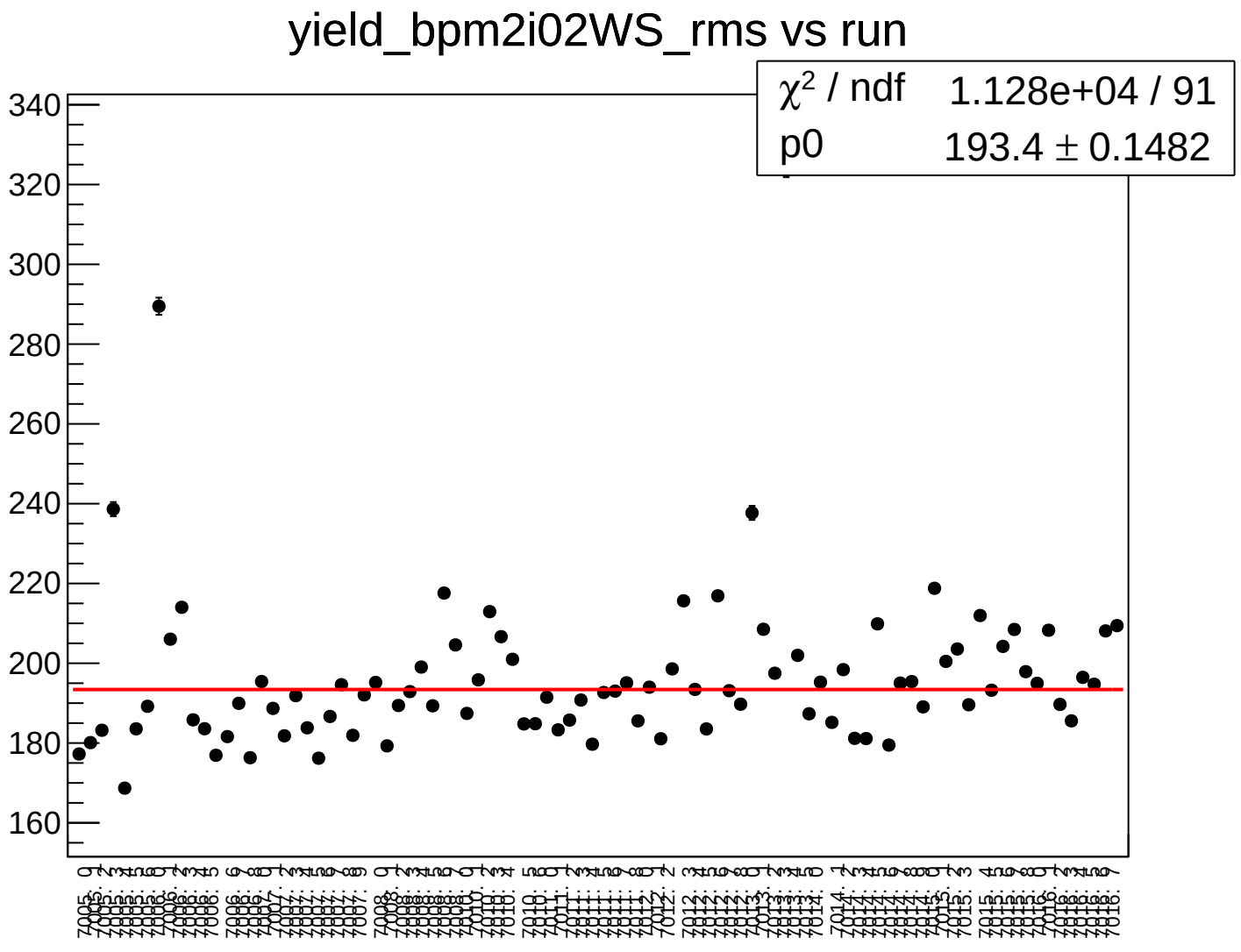

yield_bpm1i06WS_rms vs run
χ² / ndf 2.736e+04 / 91
p0 194.4 ± 0.1496
3500
3000
2500
2000
1500
1000
500

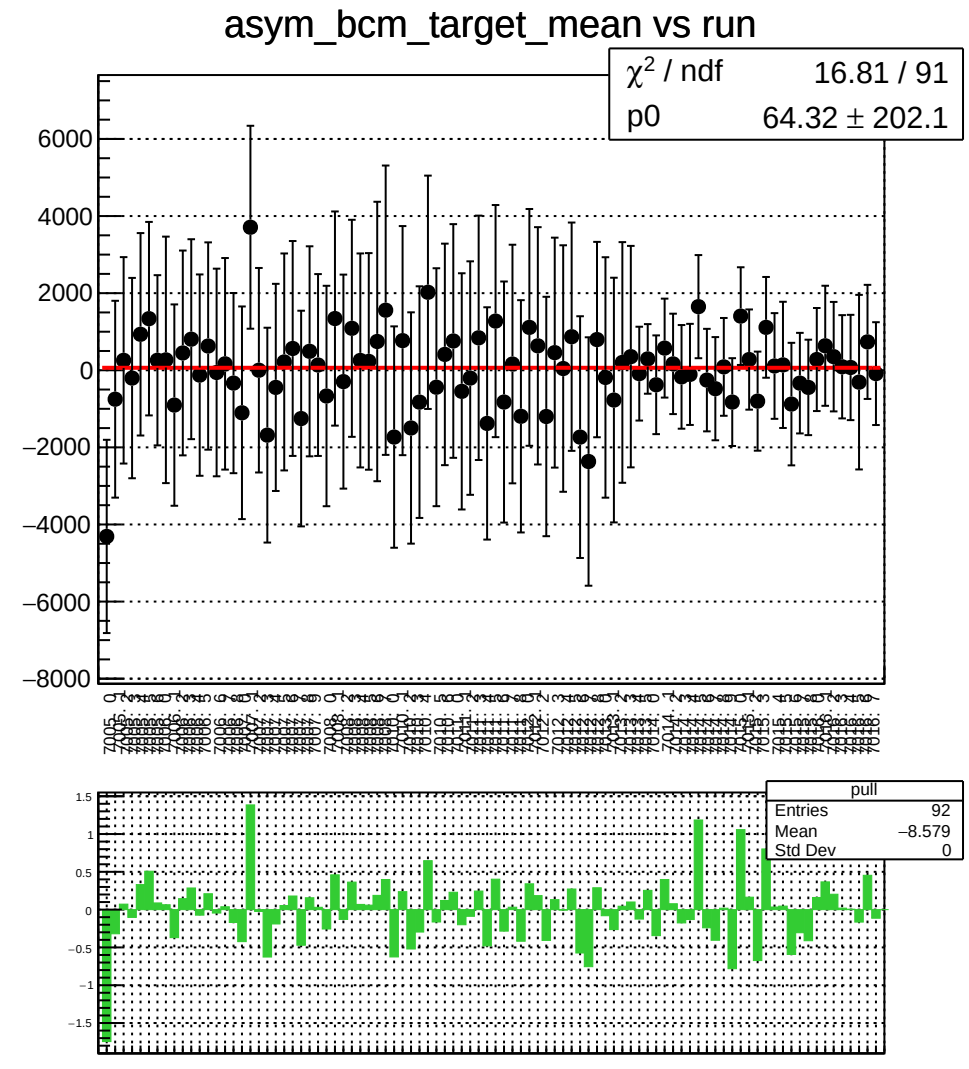

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.088e+04 / 91
p0 1.765e+05 ± 0.2044
176.6
176.58
176.56
176.54
176.52
176.5
176.48
176.46
176.44
pull
Entries 92
Mean 2318
Std Dev 0
60
50
40
30
20
10
0
−10
−20

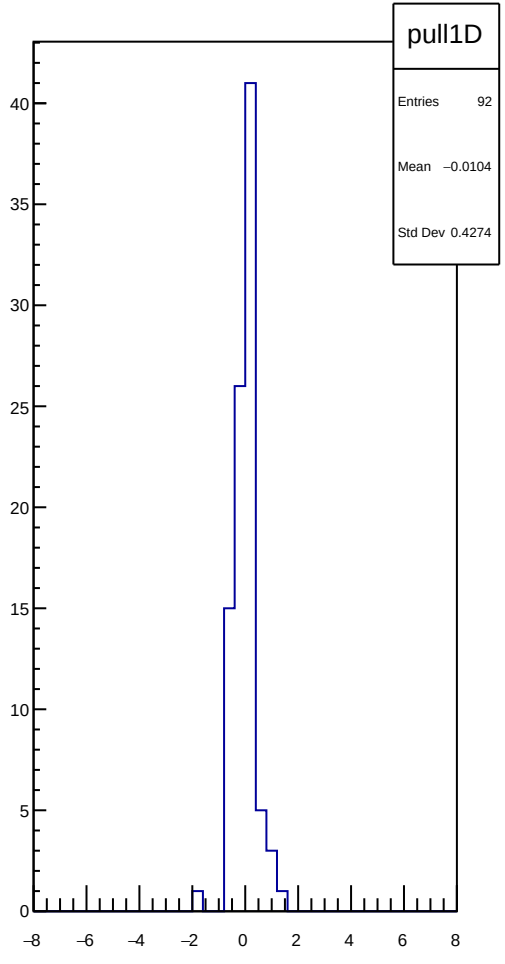

pull1D
Entries 92
Mean −1.616
Std Dev 4.686
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

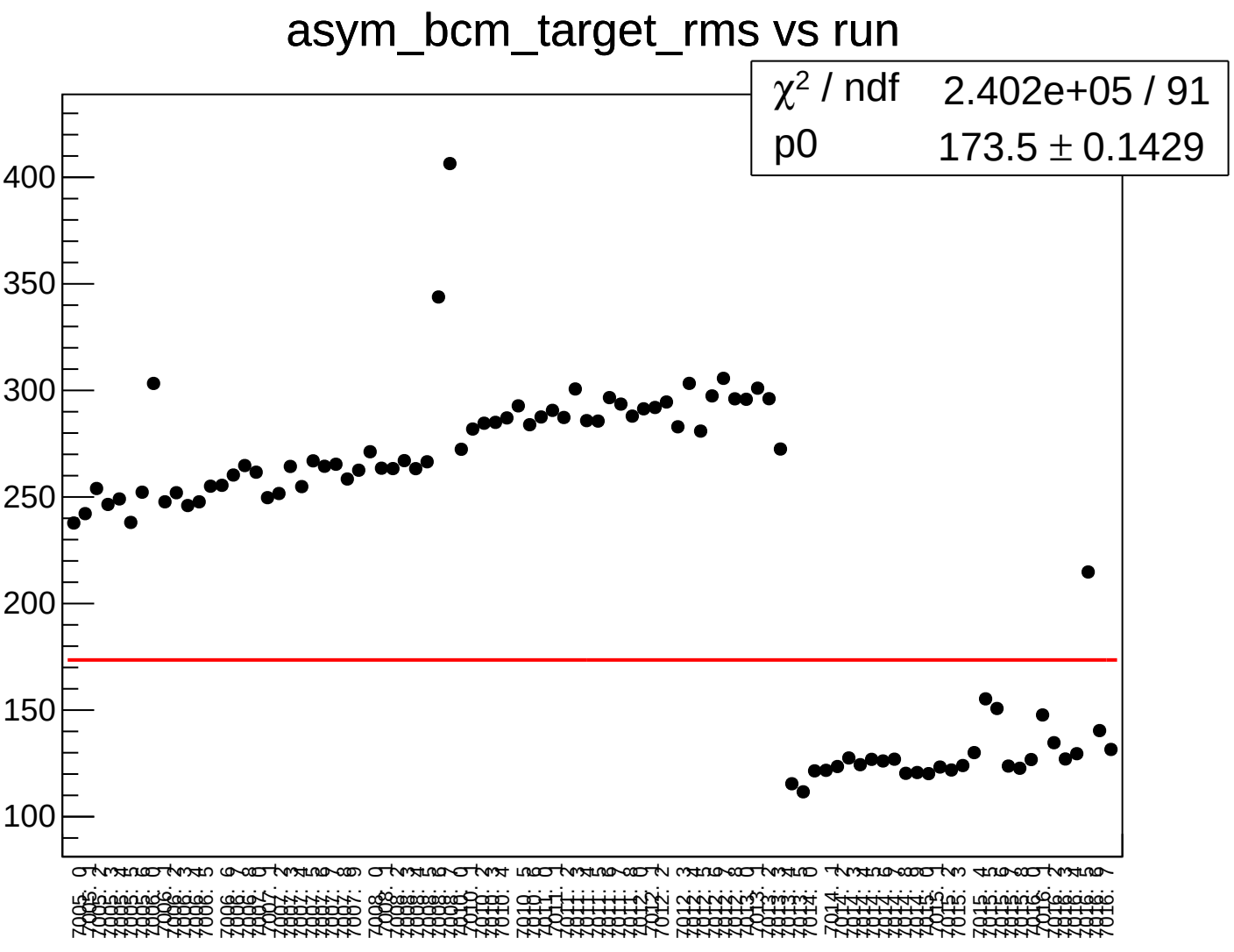

yield_bpm2i01WS_rms vs run
χ² / ndf 7589 / 91
p0 188.9 ± 0.1445
280
260
240
220
200
180
160

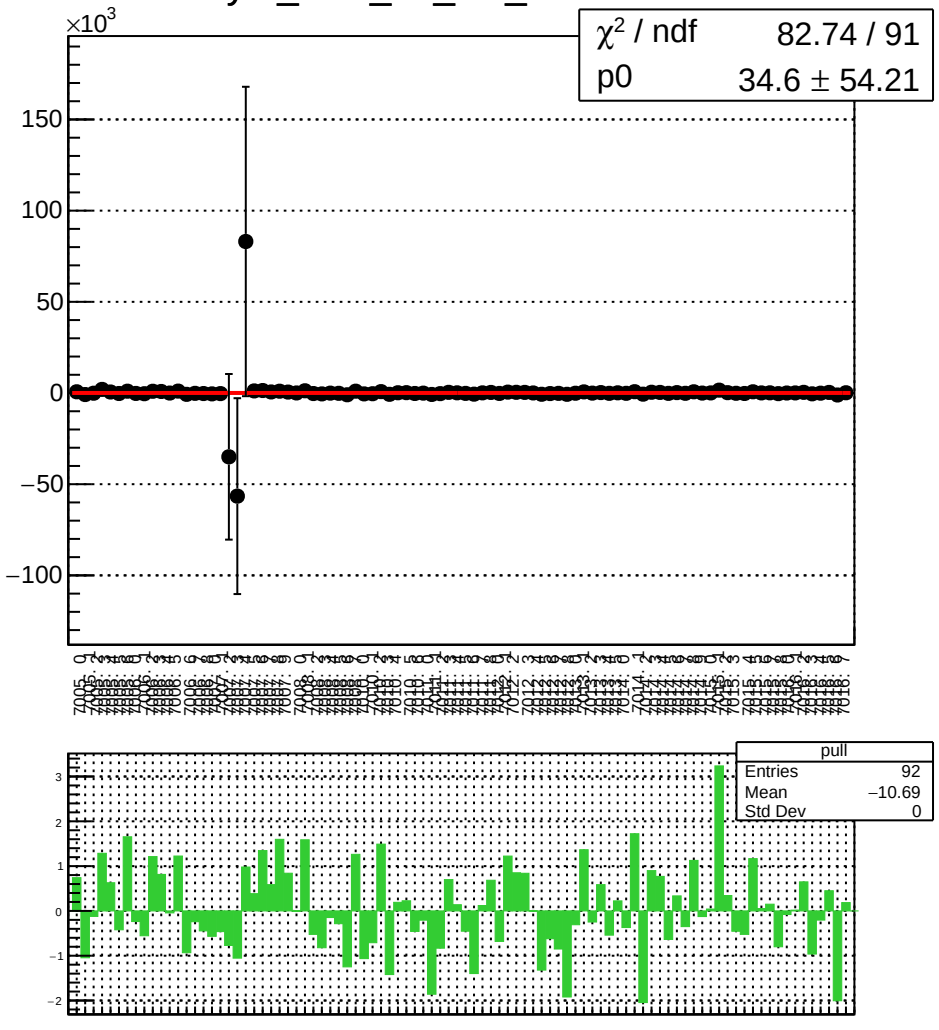

yield_bpm2i02WS_mean vs run
×10^3
184.5
184.4
184.3
184.2
184.1
184
183.9
183.8
183.7
χ² / ndf 1.928e+06 / 91
p0 1.84e+05 ± 0.2095
pull
Entries 92
Mean 2527
Std Dev 0
300
250
200
150
100
50
0
−50
−100
pull1D
Entries 92
Mean −1.809
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

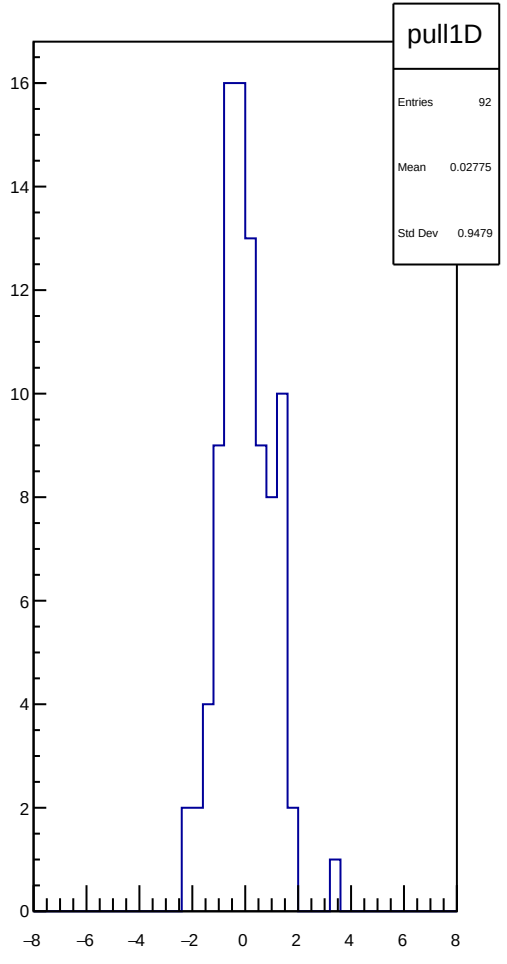

yield_bpm2i02WS_rms vs run
χ² / ndf 1.128e+04 / 91
p0 193.4 ± 0.1482
340
320
300
280
260
240
220
200
180
160

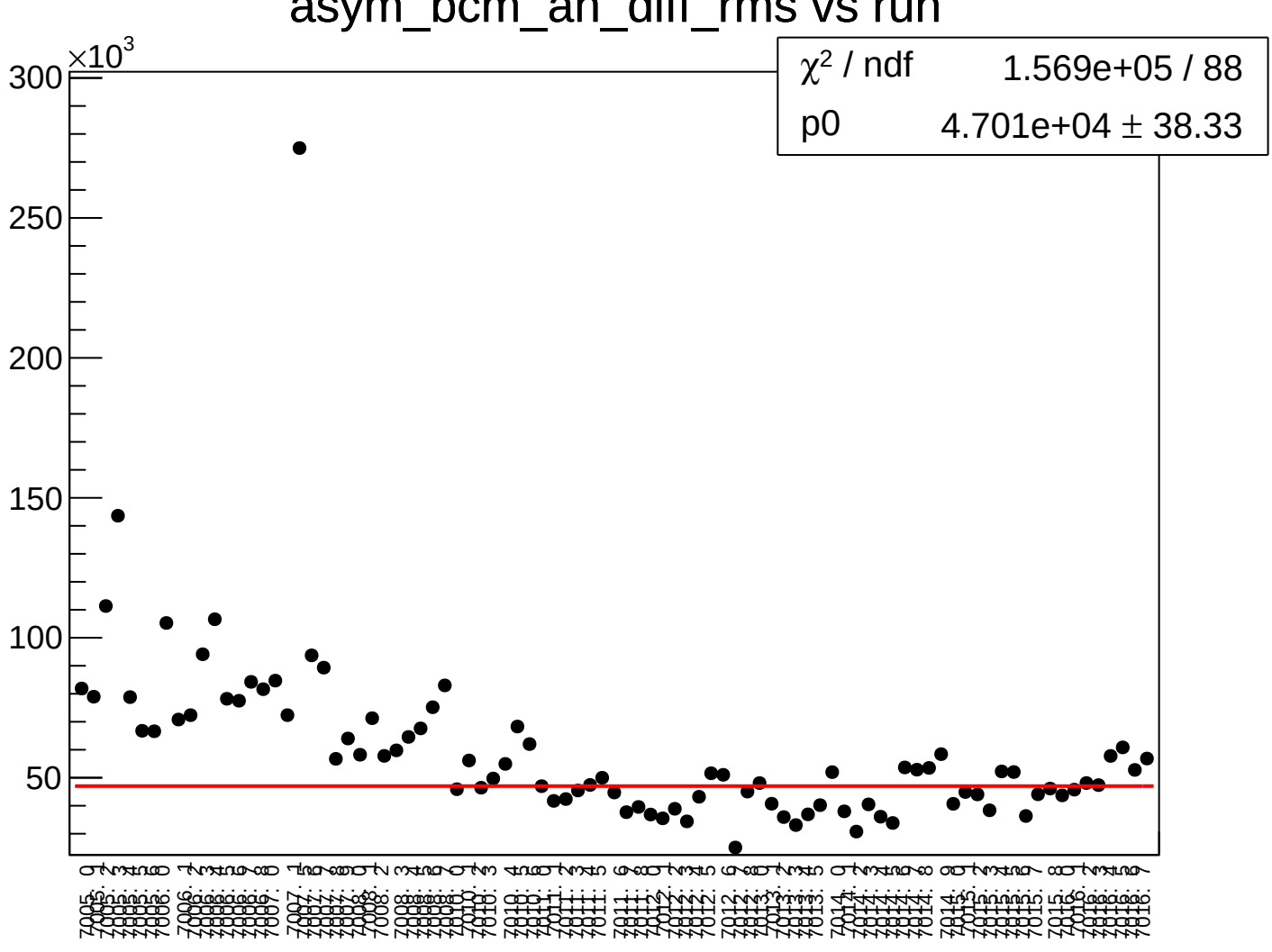

asym_bcm_target_mean vs run
χ² / ndf 16.81 / 91
p0 64.32 ± 202.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −8.579
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

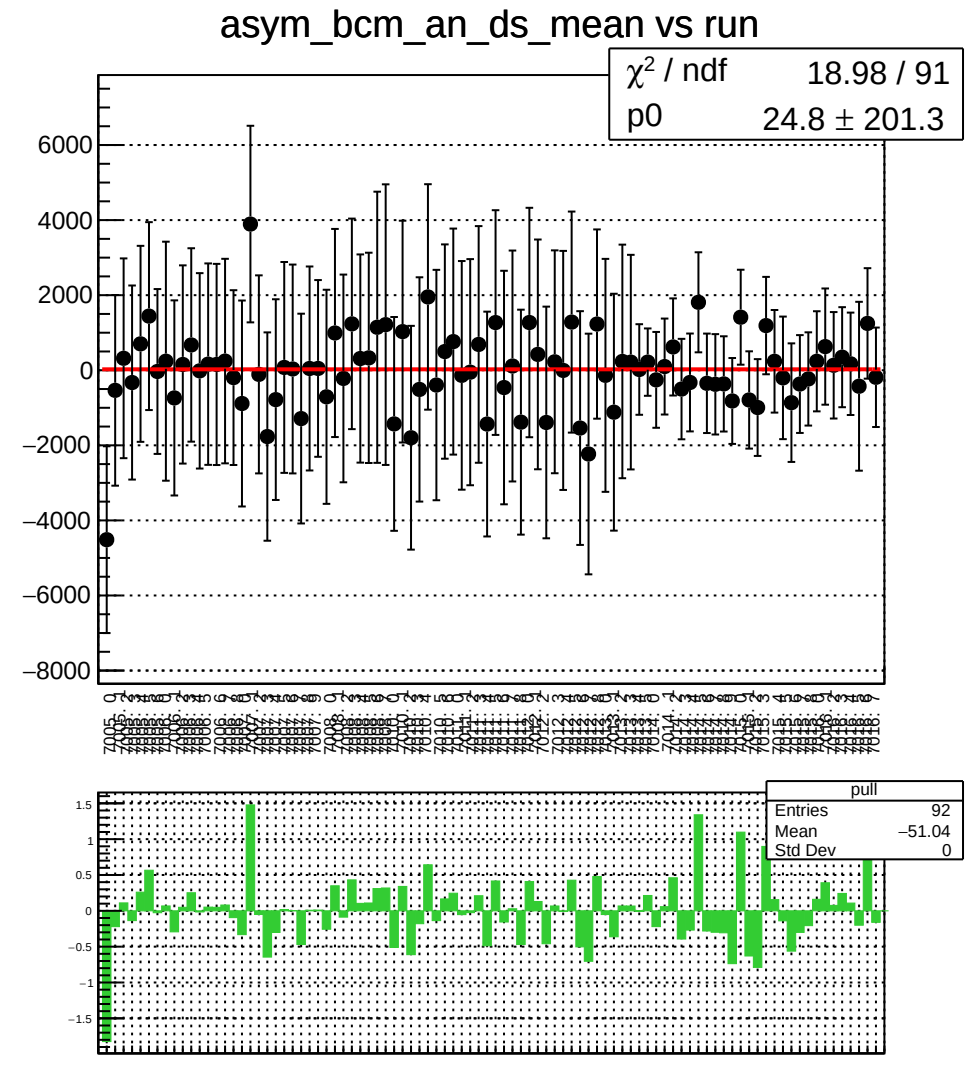

pull1D
Entries 92
Mean −0.0104
Std Dev 0.4274
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

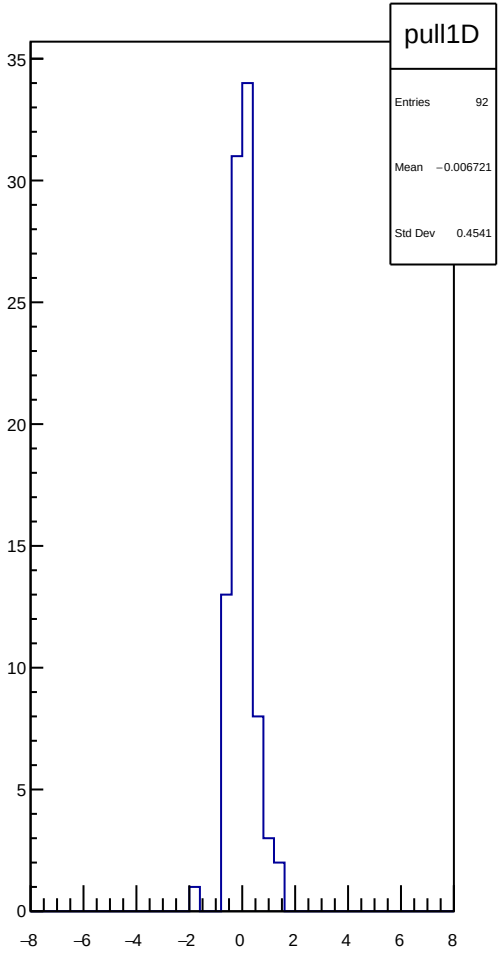

asym_bcm_target_rms vs run
χ² / ndf 2.402e+05 / 91
p0 173.5 ± 0.1429
400
350
300
250
200
150
100

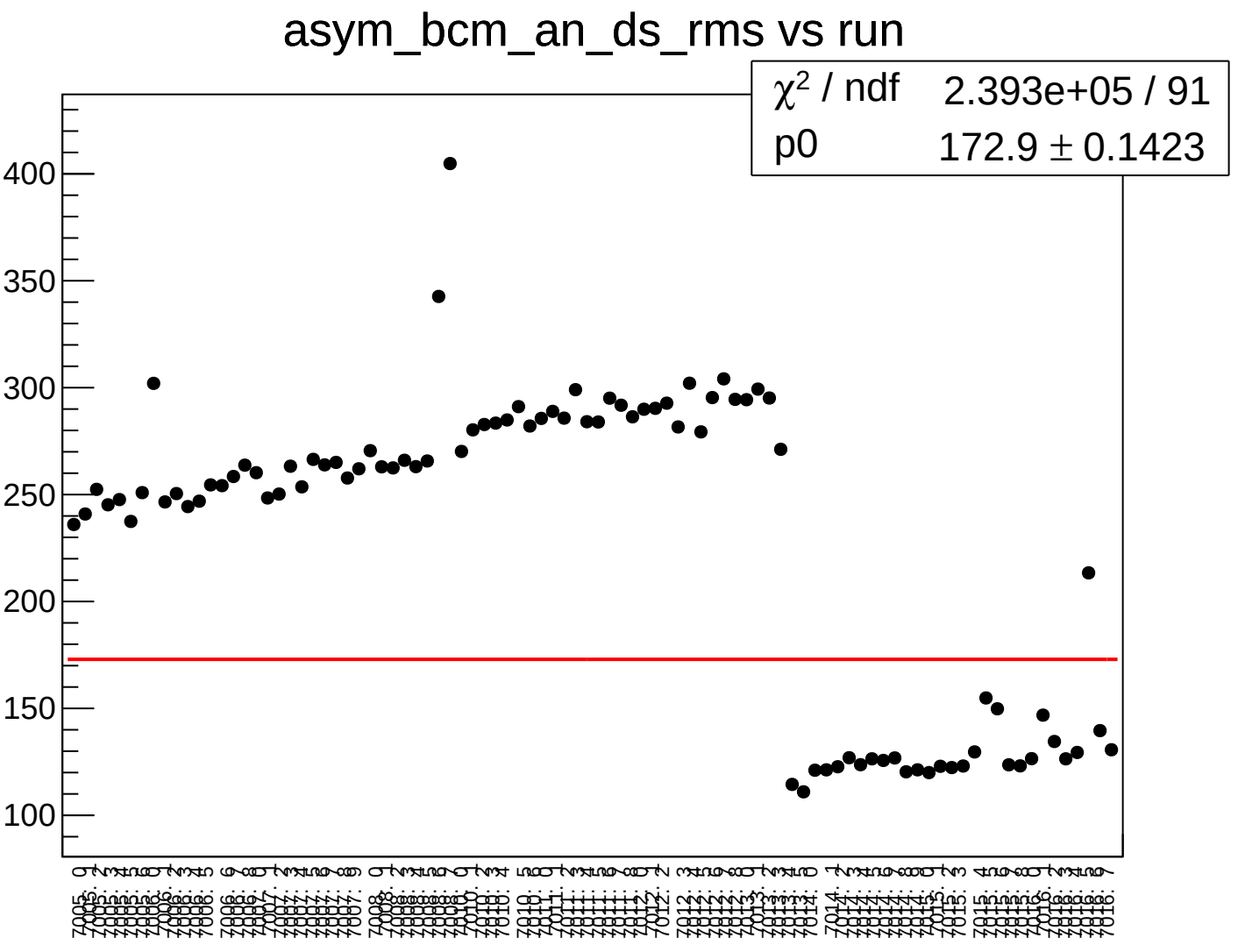

asym_bcm_an_diff_mean vs run
χ² / ndf 82.74 / 91
p0 34.6 ± 54.21
×10³
150
100
50
0
−50
−100
pull
Entries 92
Mean −10.69
Std Dev 0
3
2
1
0
−1
−2

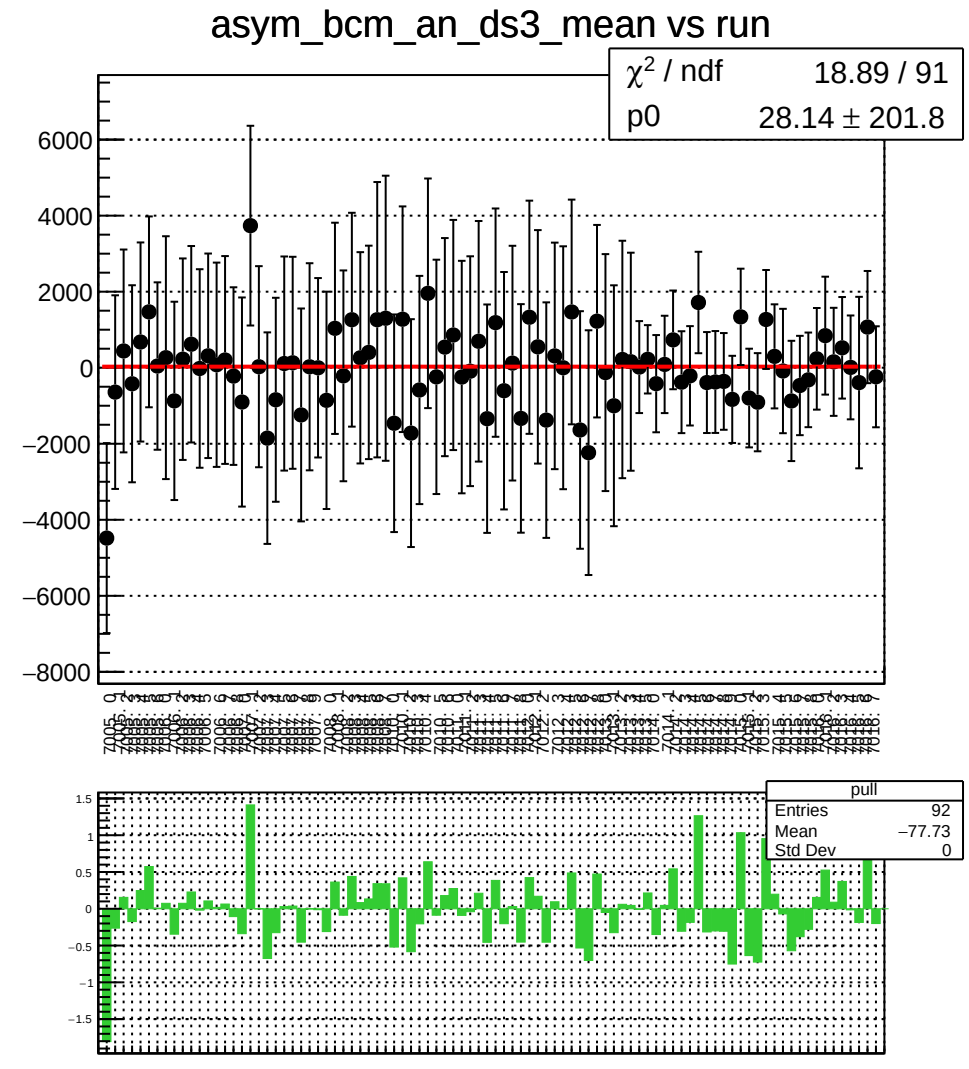

pull1D
Entries 92
Mean 0.02775
Std Dev 0.9479
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

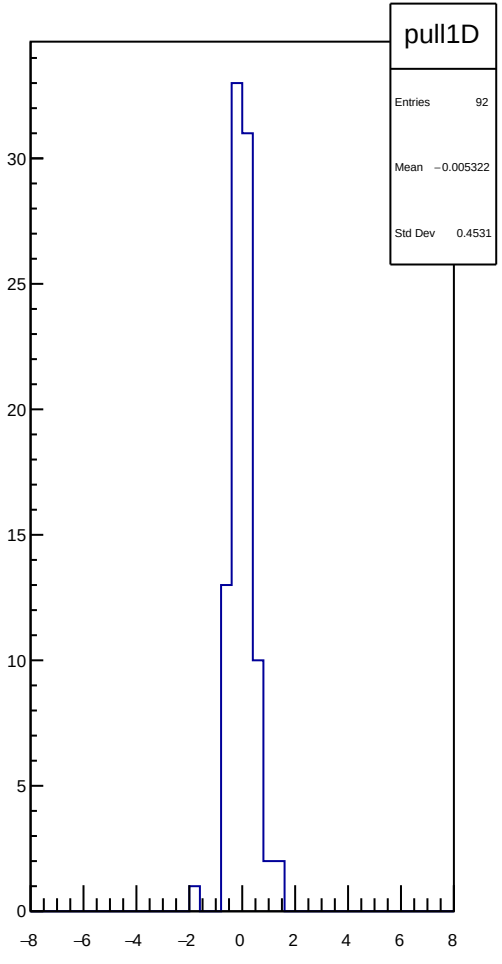

asym_bcm_an_diff_rms vs run
×10^3
300
250
200
150
100
50
χ² / ndf 1.569e+05 / 88
p0 4.701e+04 ± 38.33

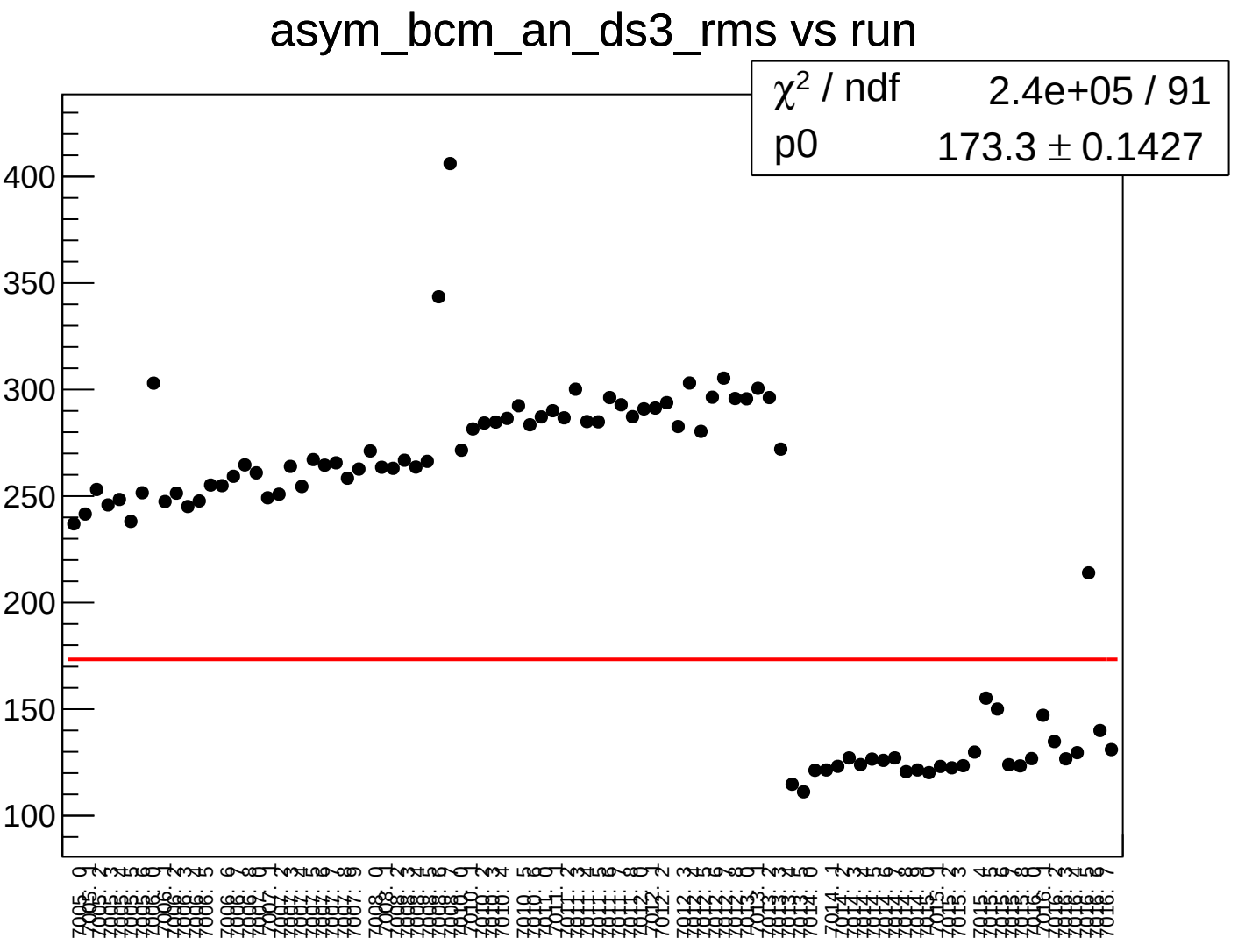

asym_bcm_an_ds_mean vs run
χ² / ndf 18.98 / 91
p0 24.8 ± 201.3
pull
Entries 92
Mean −51.04
Std Dev 0

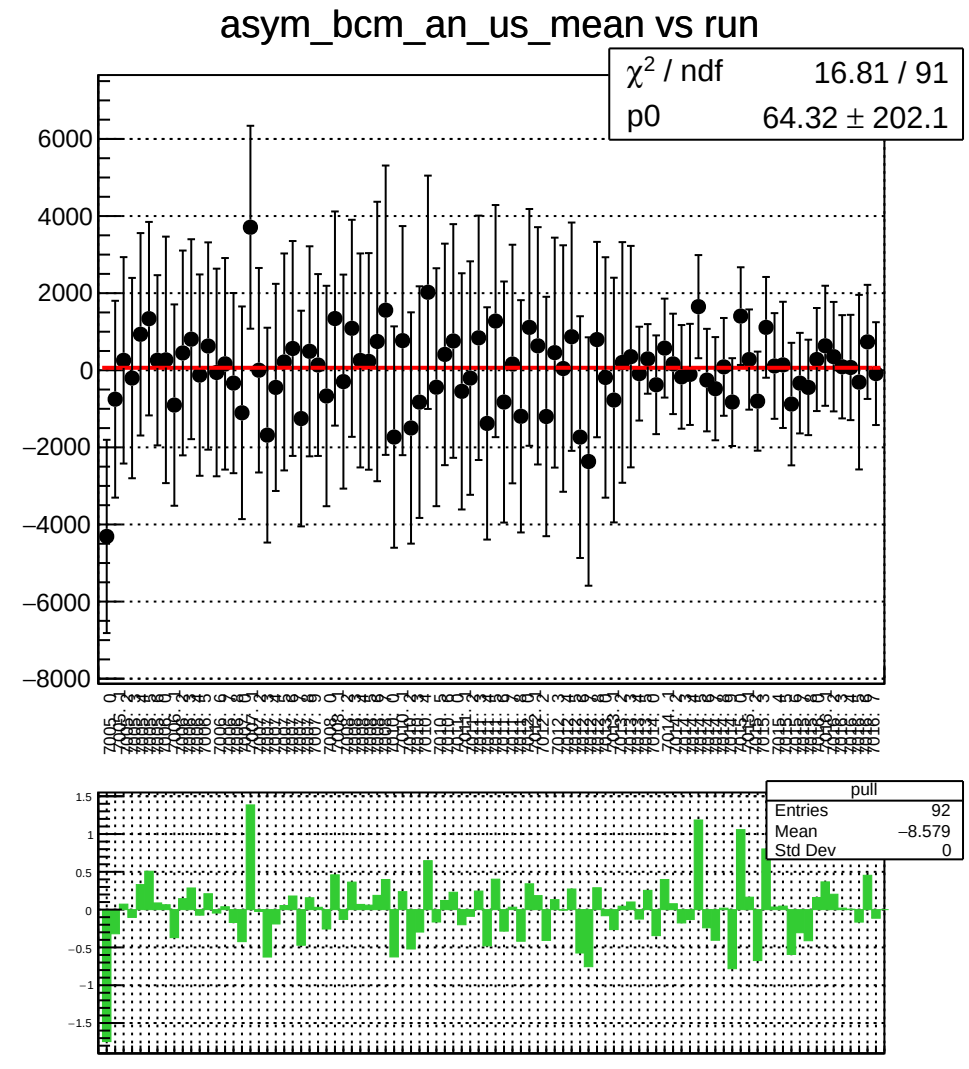

pull1D
Entries 92
Mean −0.006721
Std Dev 0.4541

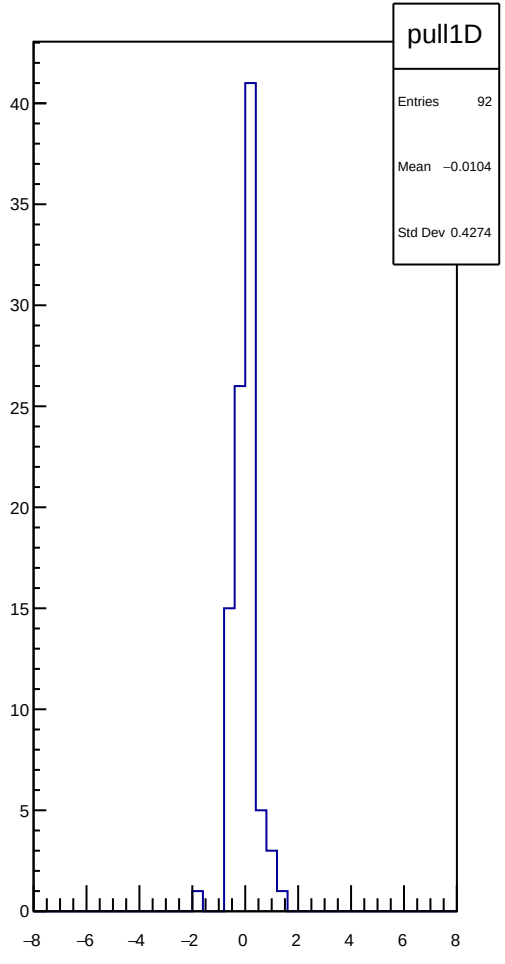

asym_bcm_an_ds_rms vs run
χ² / ndf 2.393e+05 / 91
p0 172.9 ± 0.1423
400
350
300
250
200
150
100

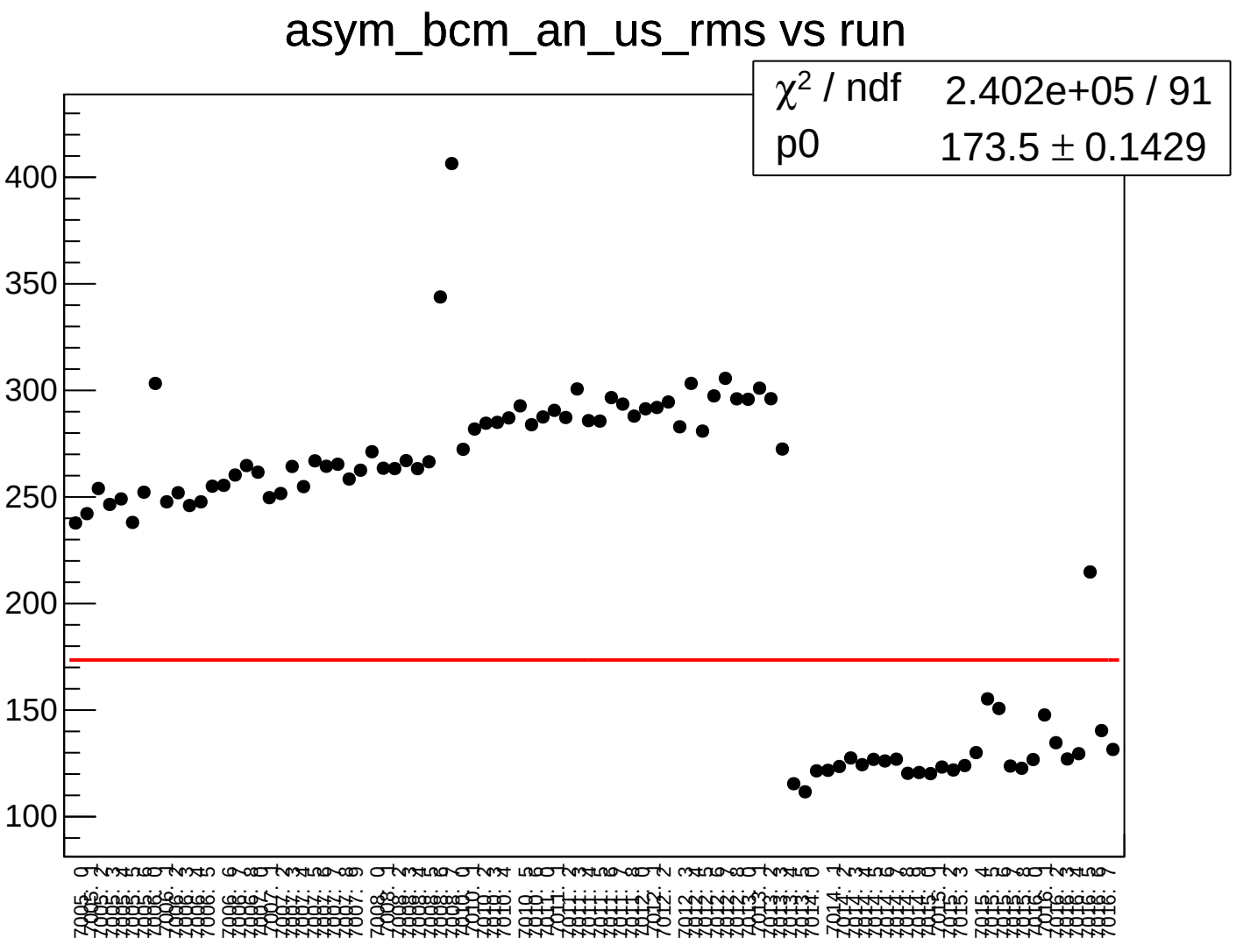

asym_bcm_an_ds3_mean vs run
χ² / ndf 18.89 / 91
p0 28.14 ± 201.8
pull
Entries 92
Mean −77.73
Std Dev 0

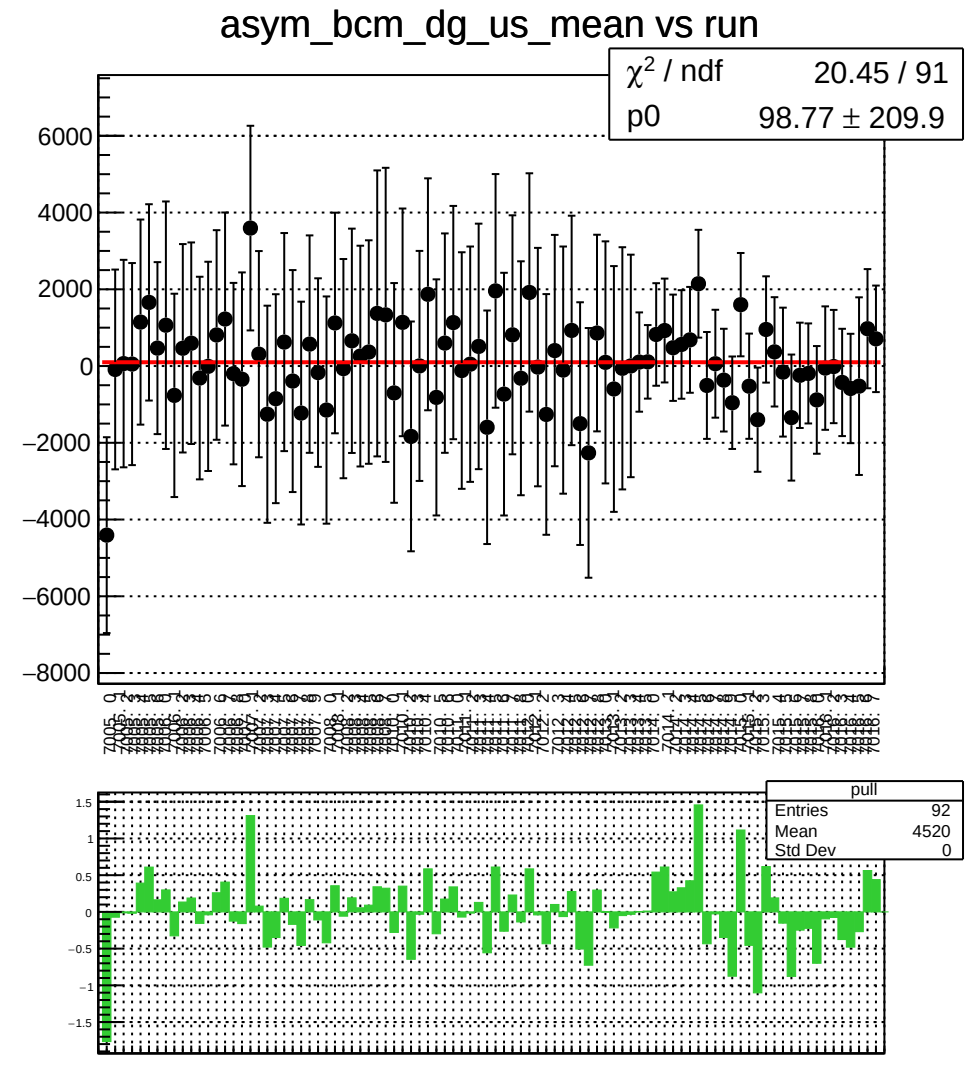

pull1D
Entries 92
Mean −0.005322
Std Dev 0.4531

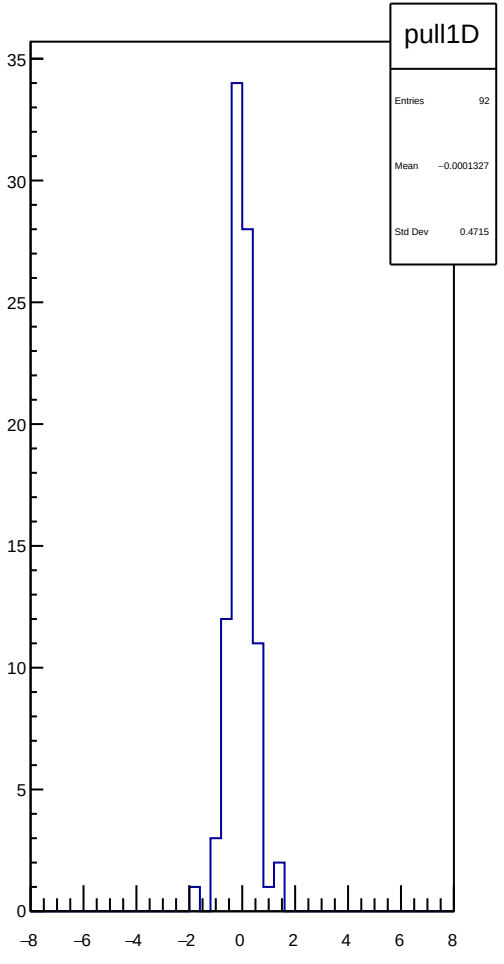

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.4e+05 / 91
p0 173.3 ± 0.1427
400
350
300
250
200
150
100

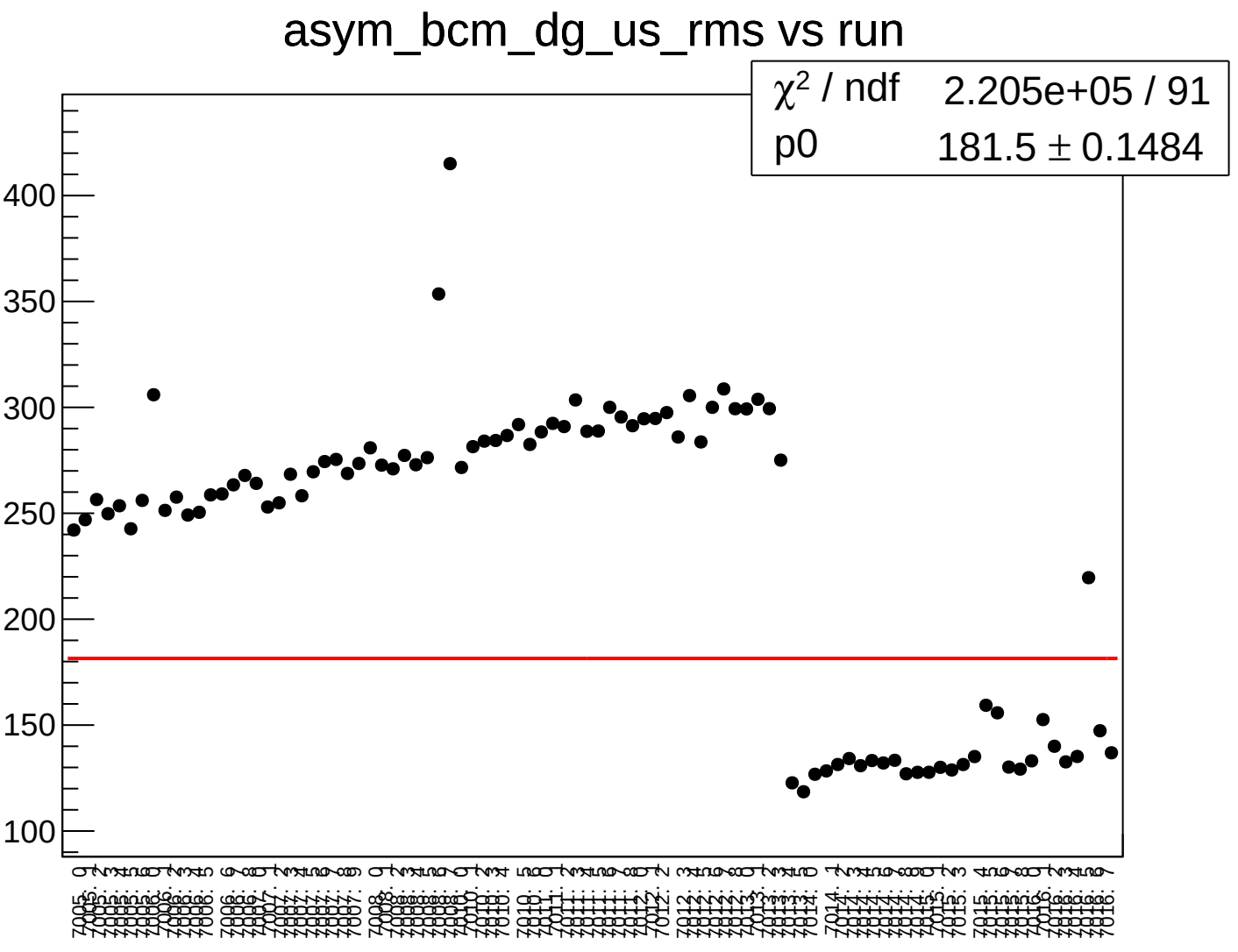

asym_bcm_an_us_mean vs run
χ² / ndf 16.81 / 91
p0 64.32 ± 202.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −8.579
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

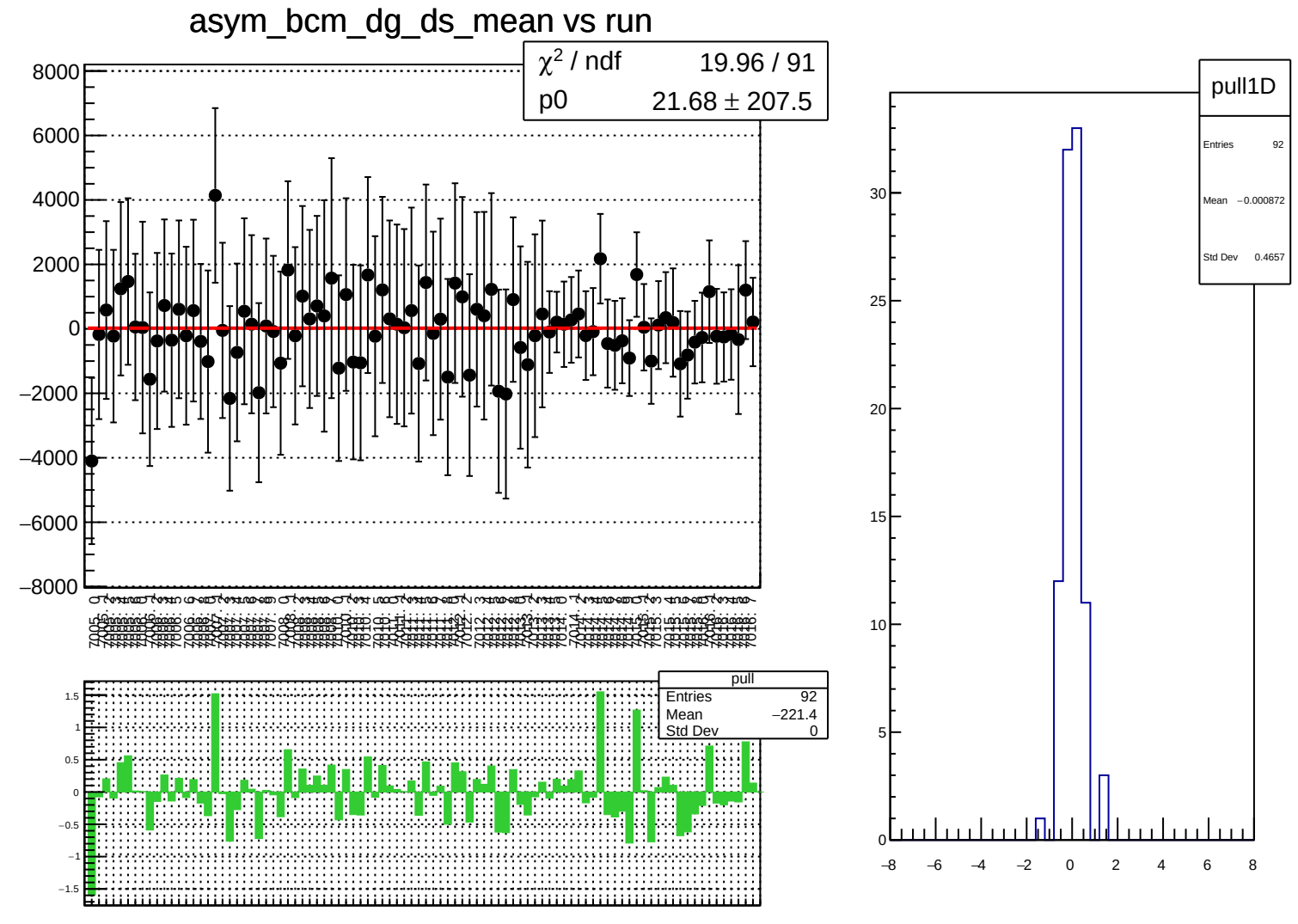

pull1D
Entries 92
Mean −0.0104
Std Dev 0.4274
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

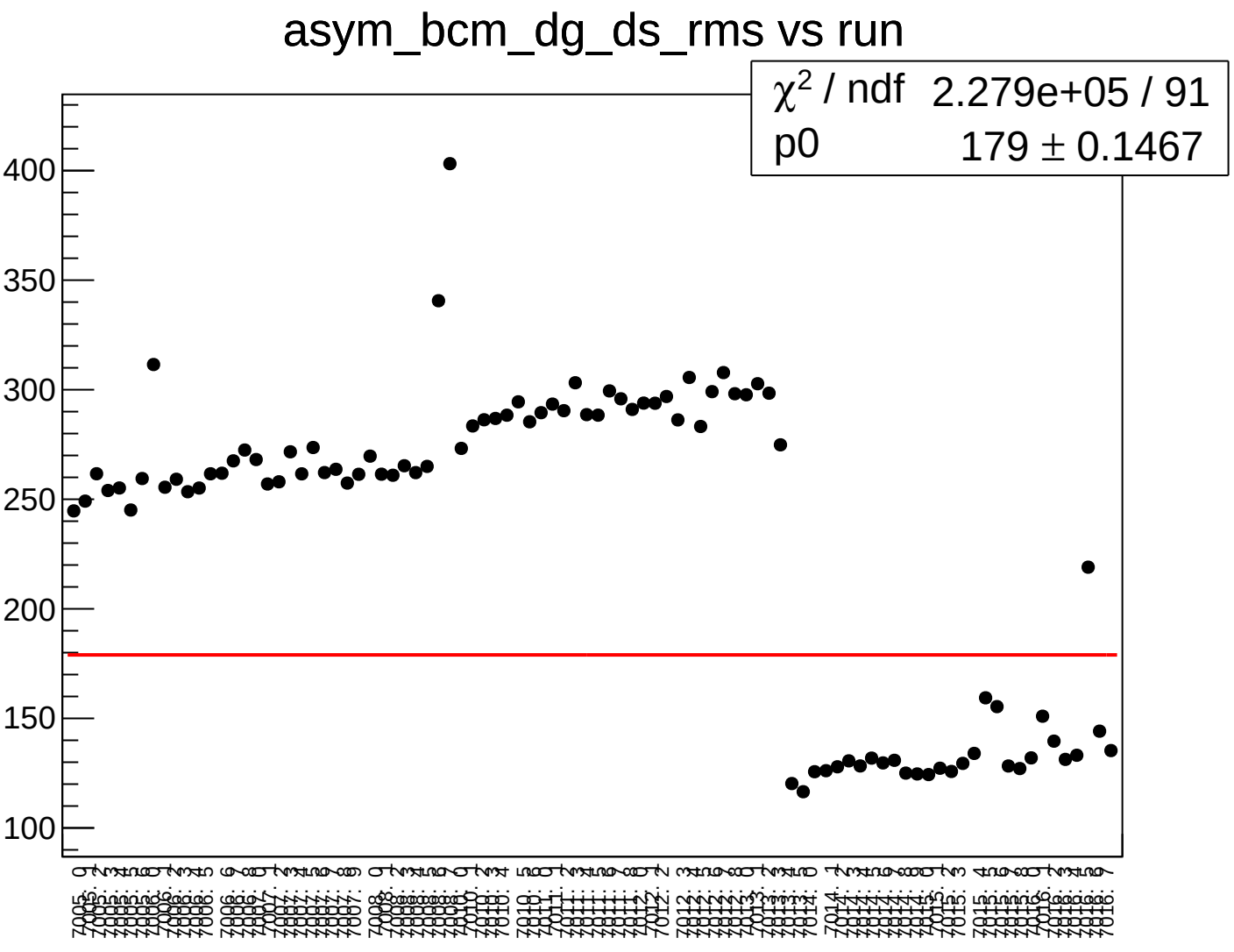

asym_bcm_an_us_rms vs run
χ² / ndf 2.402e+05 / 91
p0 173.5 ± 0.1429
400
350
300
250
200
150
100

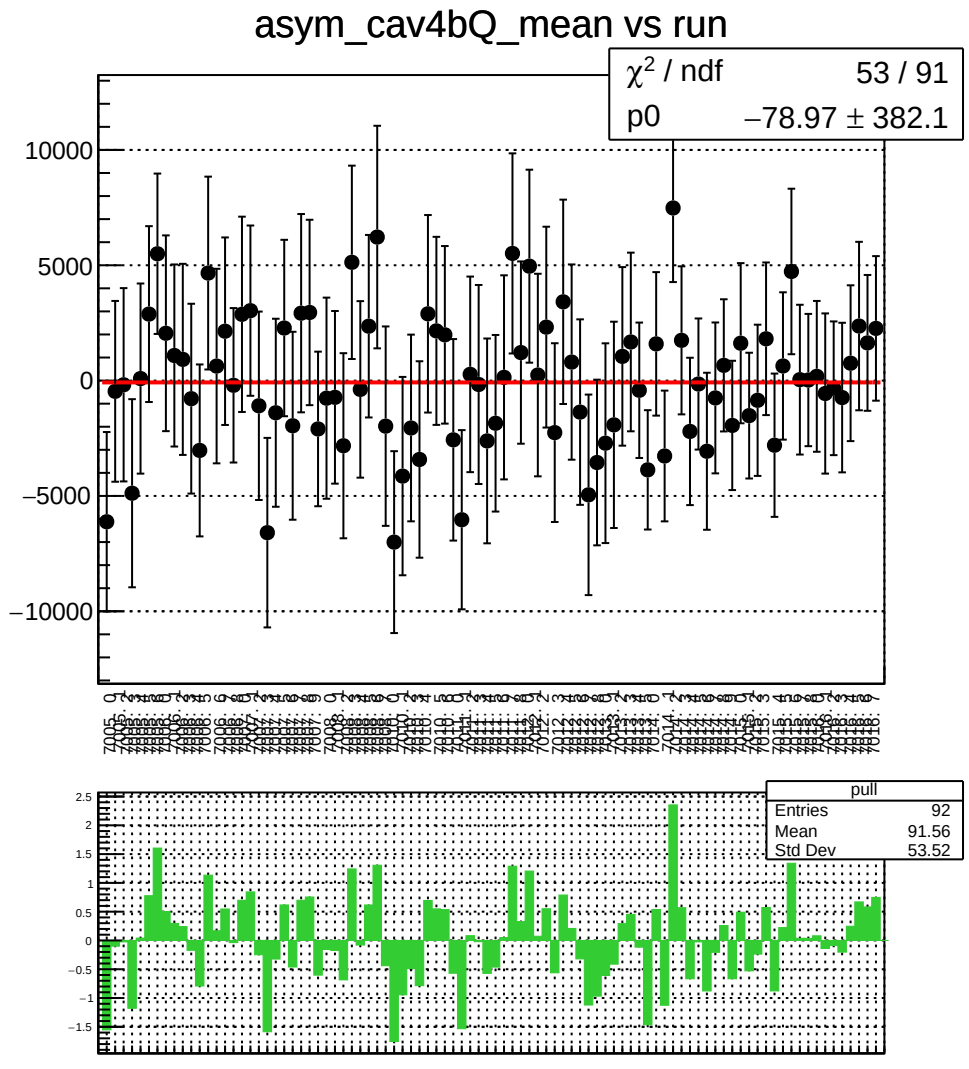

asym_bcm_dg_us_mean vs run
χ² / ndf 20.45 / 91
p0 98.77 ± 209.9
pull
Entries 92
Mean 4520
Std Dev 0

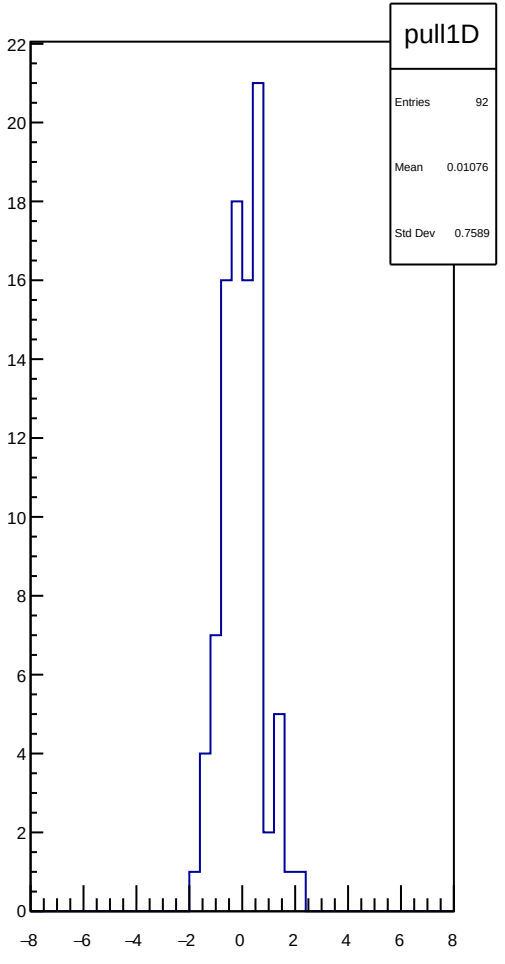

pull1D
Entries 92
Mean −0.0001327
Std Dev 0.4715

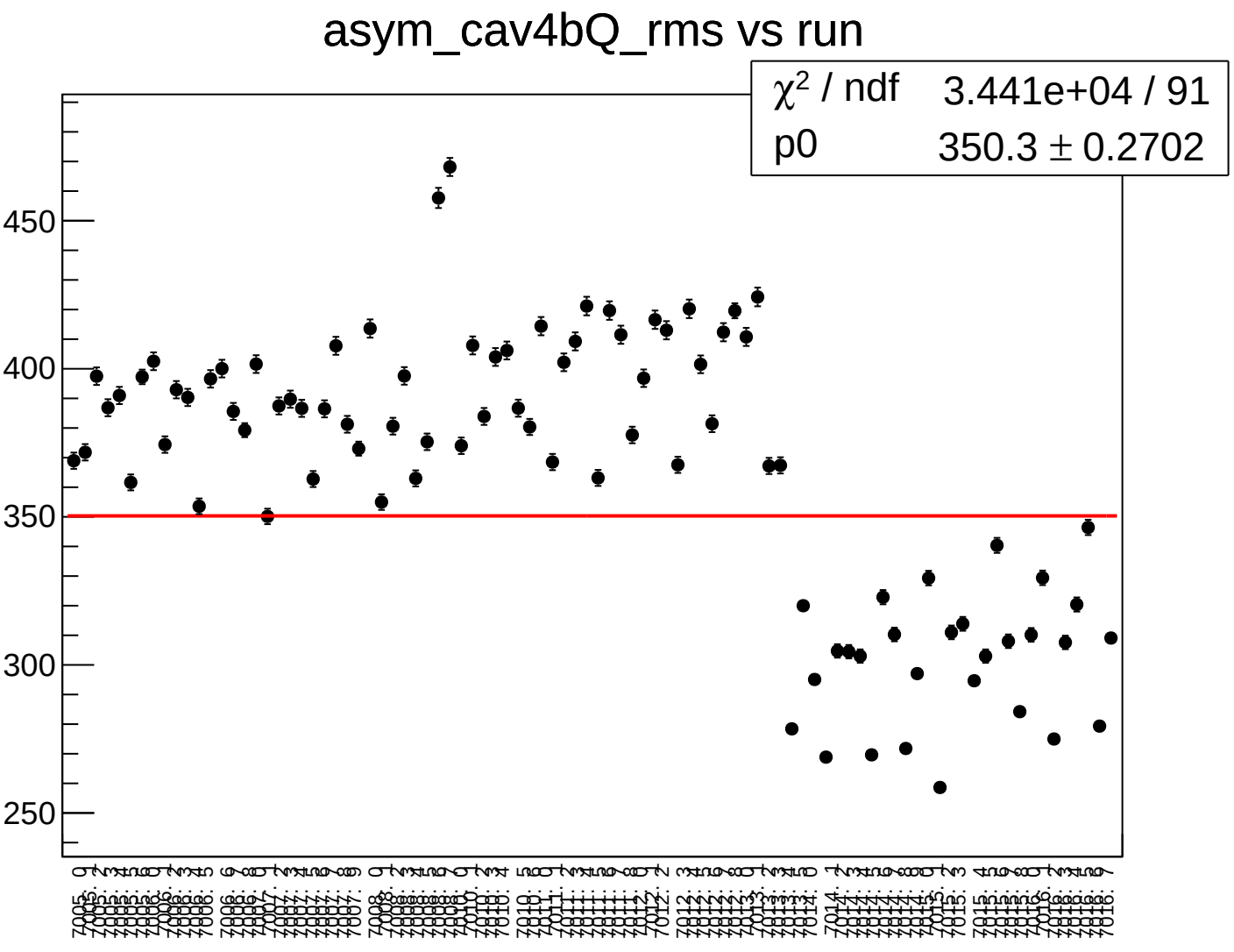

asym_bcm_dg_us_rms vs run
$\chi^2$ / ndf 2.205e+05 / 91
p0 181.5 ± 0.1484
400
350
300
250
200
150
100

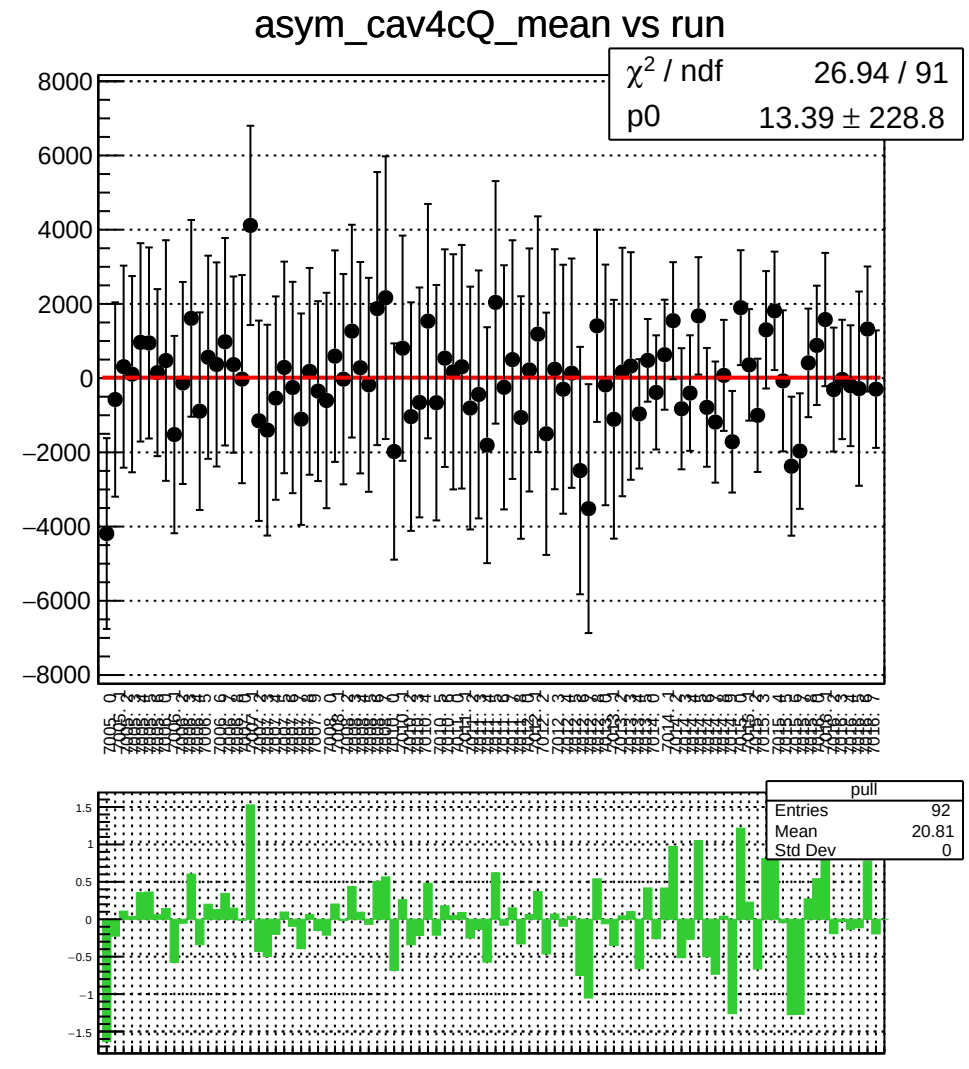

asym_bcm_dg_ds_mean vs run
χ² / ndf 19.96 / 91
p0 21.68 ± 207.5
pull
Entries 92
Mean −221.4
Std Dev 0
pull1D
Entries 92
Mean −0.000872
Std Dev 0.4657

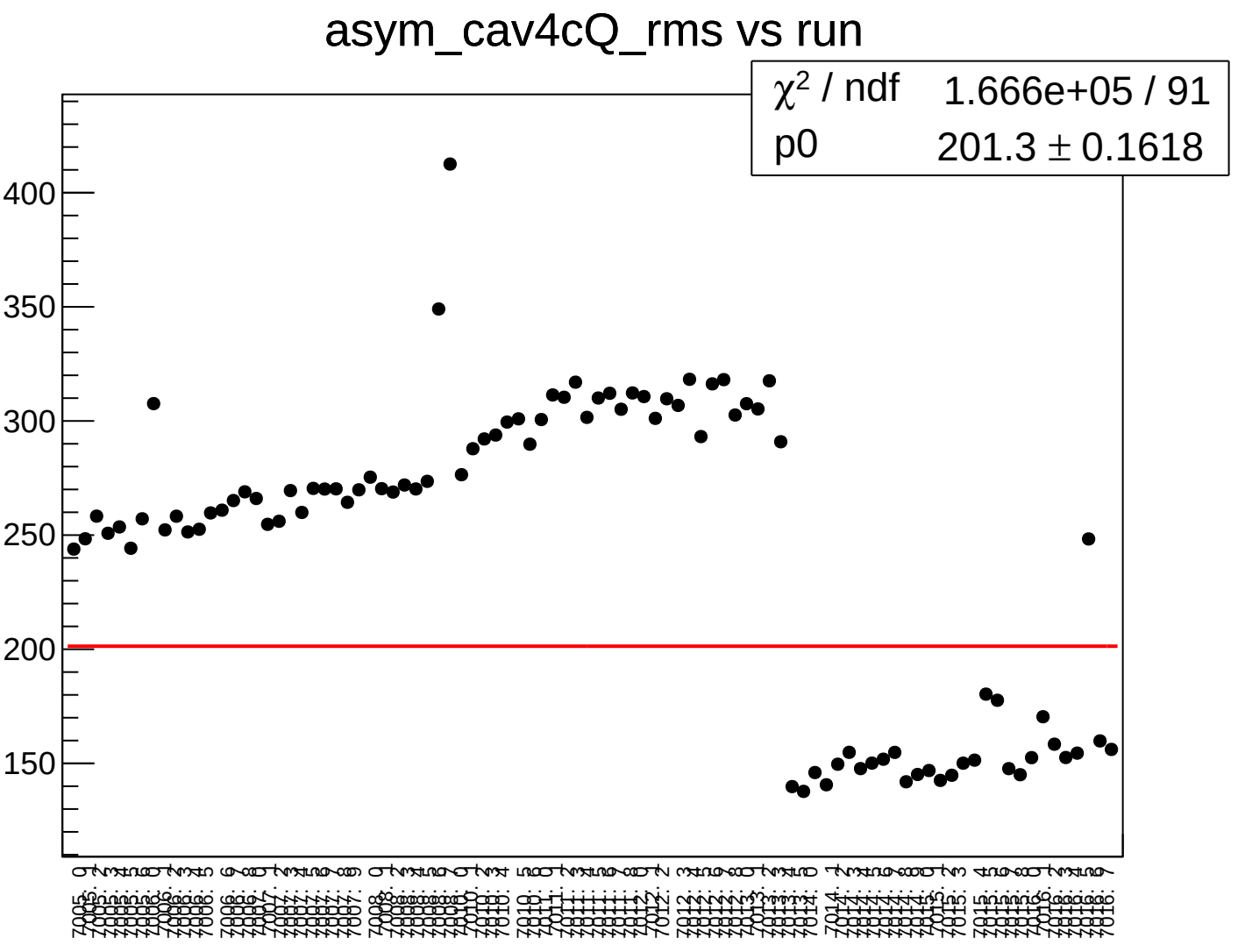

asym_bcm_dg_ds_rms vs run
$\chi^2$ / ndf 2.279e+05 / 91
p0 179 ± 0.1467
400
350
300
250
200
150
100

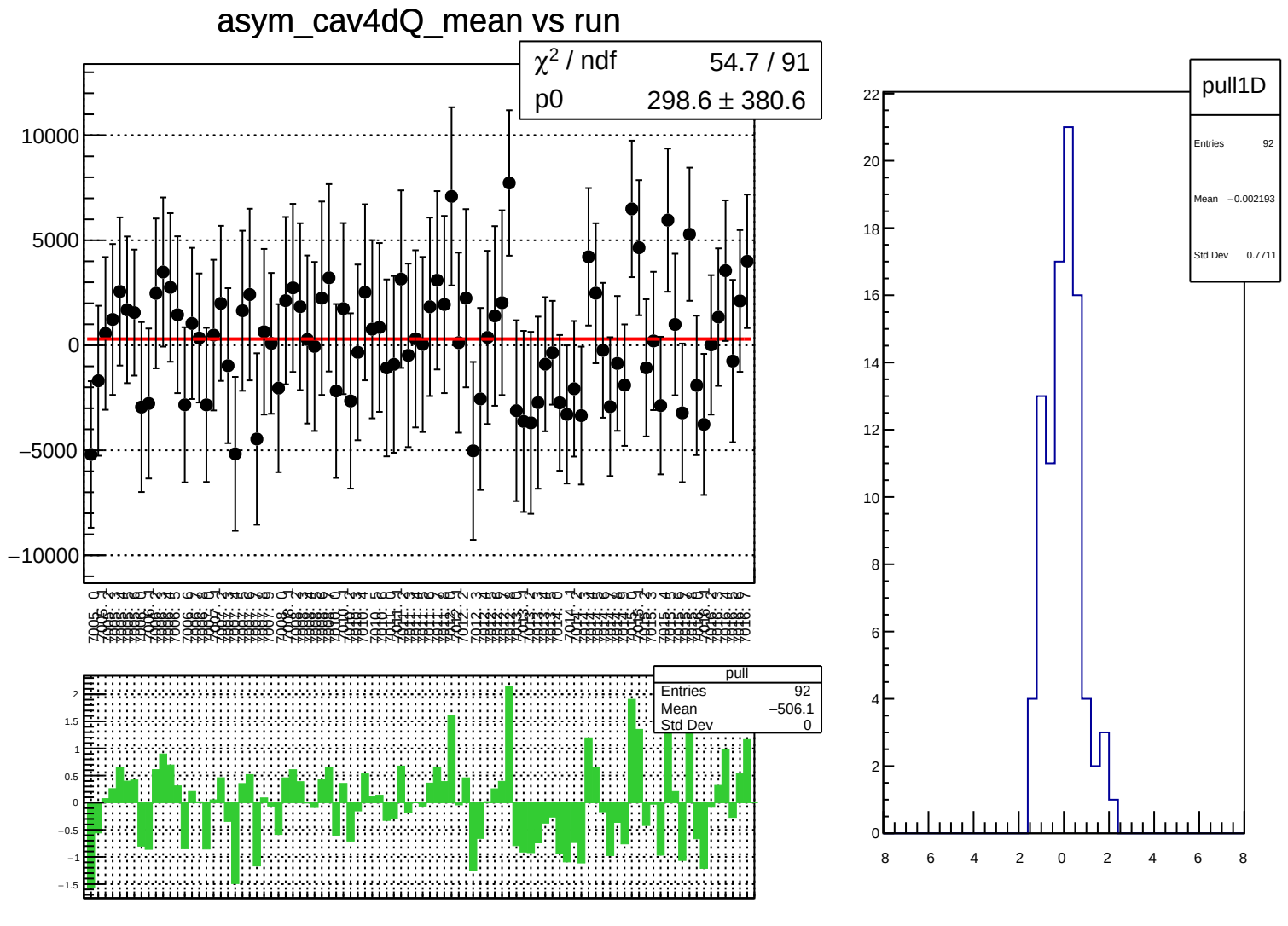

asym_cav4bQ_mean vs run
χ² / ndf 53 / 91
p0 −78.97 ± 382.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 91.56
Std Dev 53.52
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

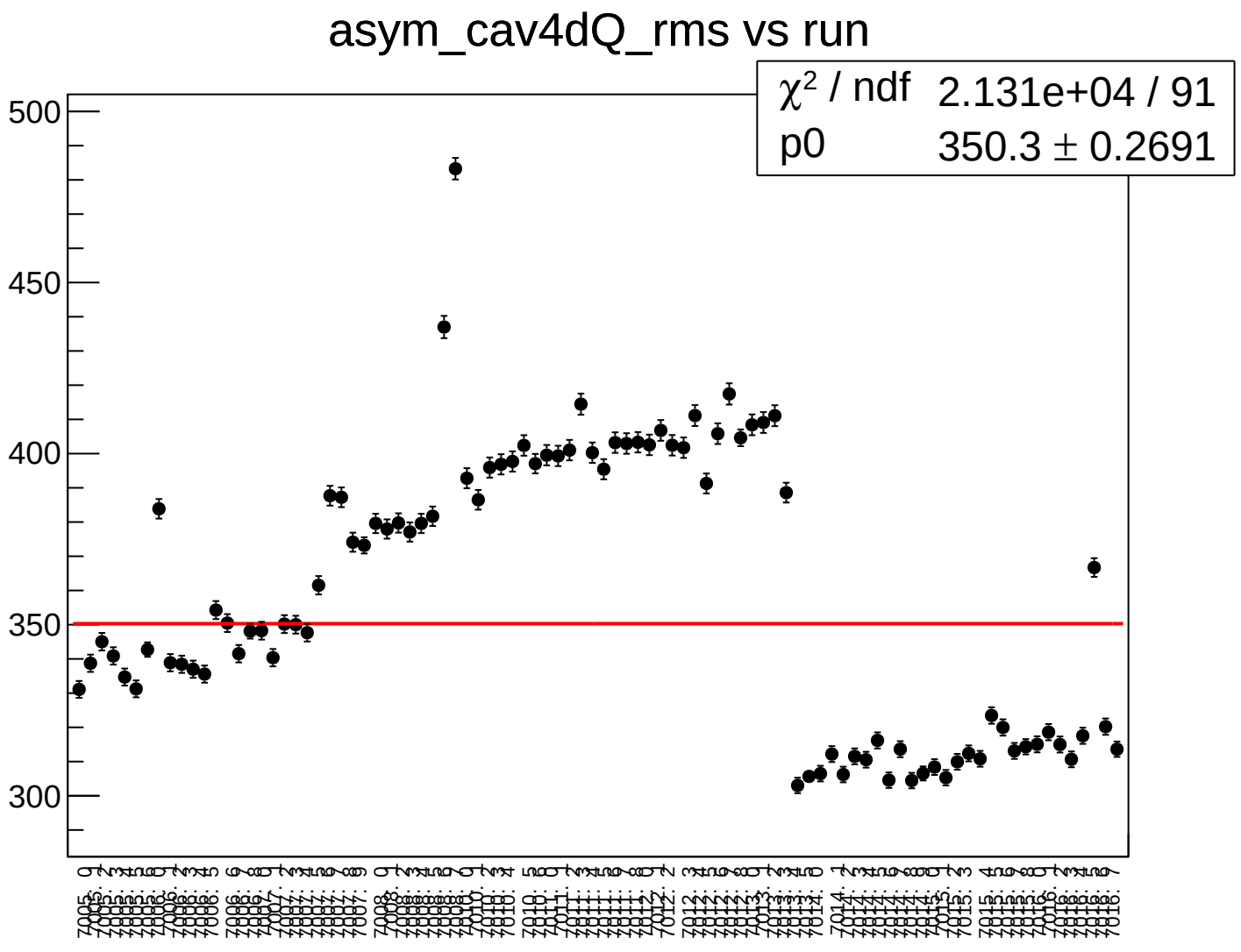

pull1D
Entries 92
Mean 0.01076
Std Dev 0.7589
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

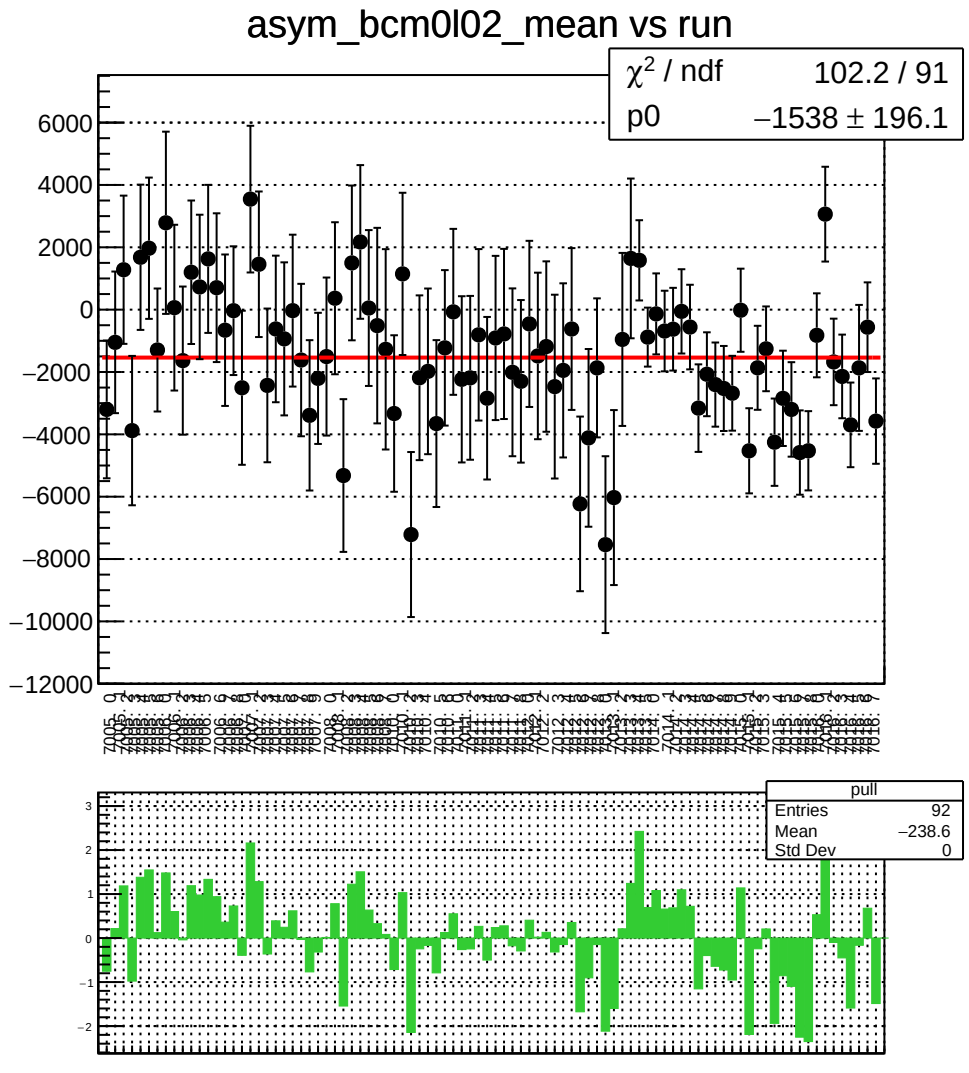

asym_cav4bQ_rms vs run
$\chi^2$ / ndf 3.441e+04 / 91
p0 350.3 ± 0.2702
450
400
350
300
250

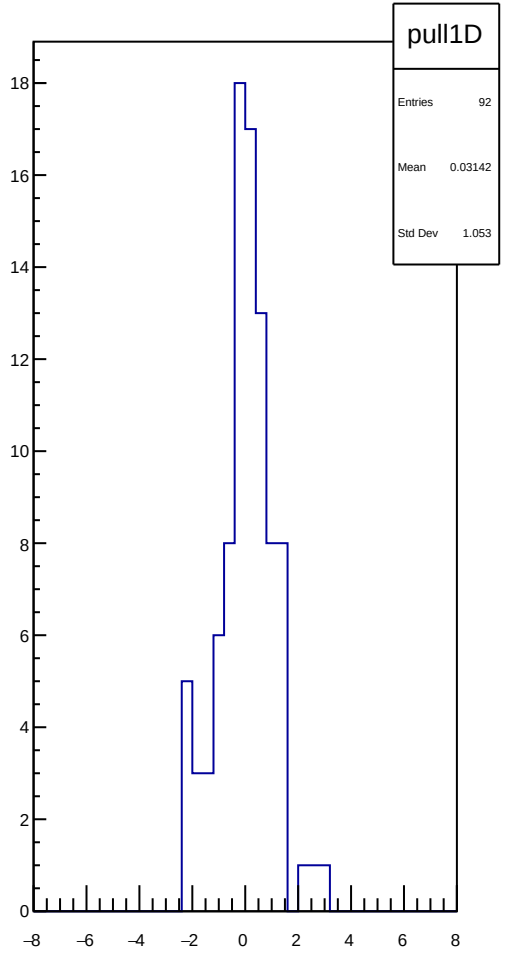

asym_cav4cQ_mean vs run
χ² / ndf 26.94 / 91
p0 13.39 ± 228.8
pull
Entries 92
Mean 20.81
Std Dev 0
pull1D
Entries 92
Mean −0.008827
Std Dev 0.5411

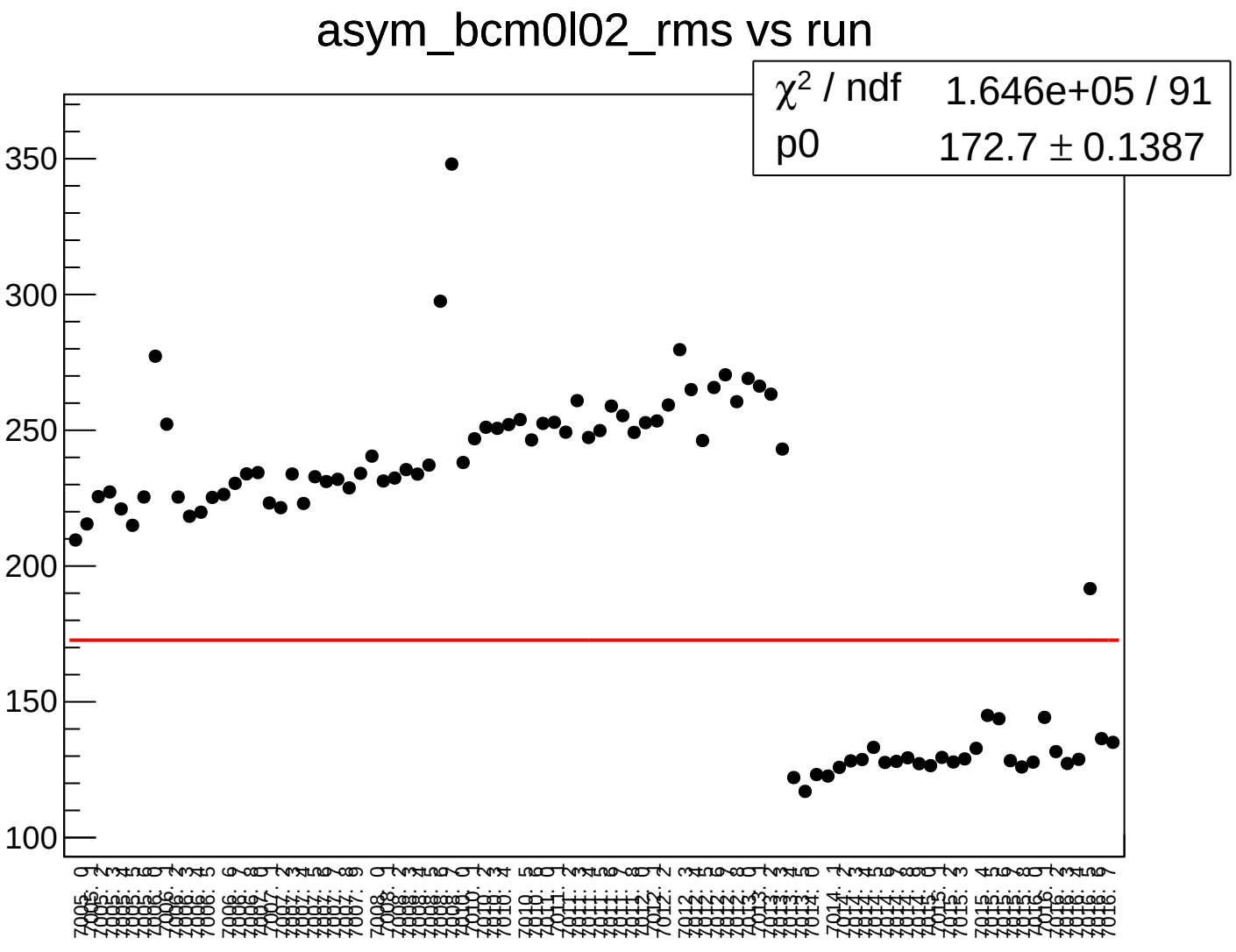

asym_cav4cQ_rms vs run
χ² / ndf 1.666e+05 / 91
p0 201.3 ± 0.1618
400
350
300
250
200
150

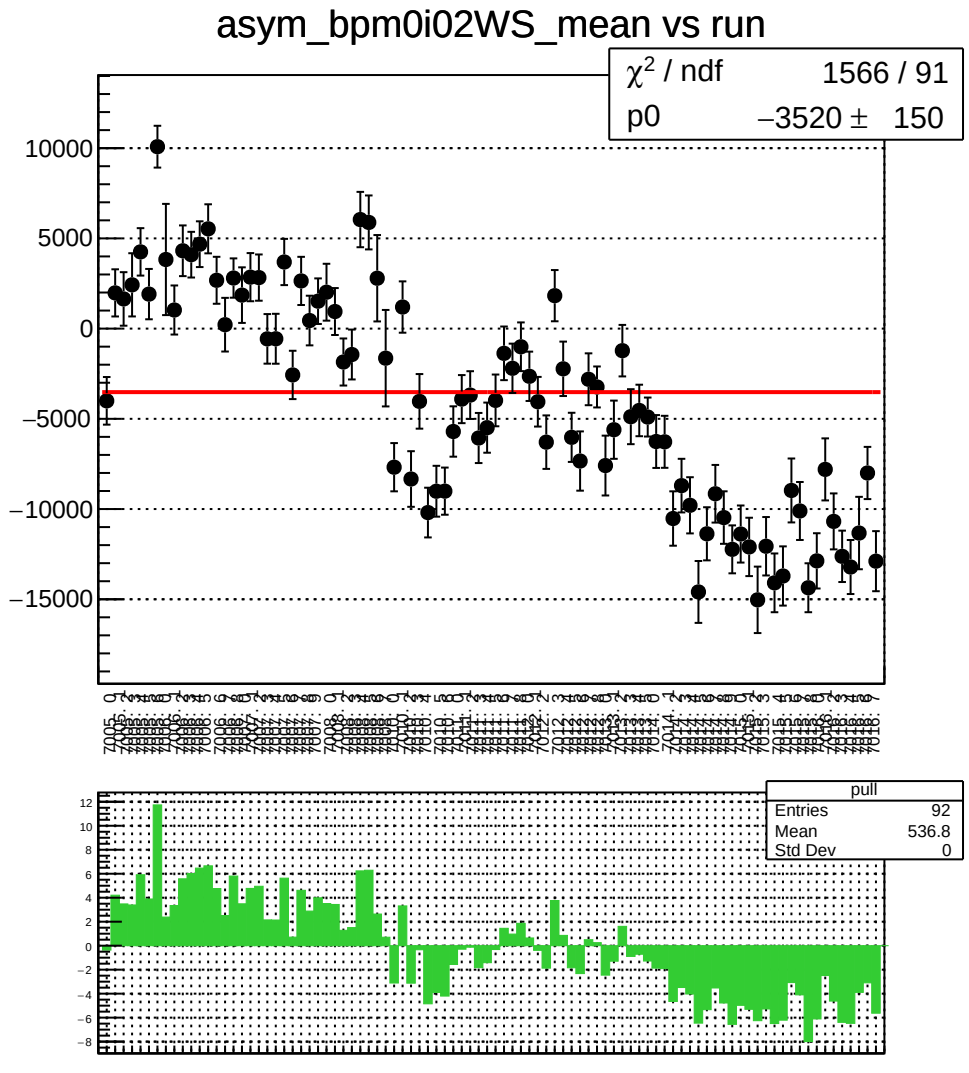

asym_cav4dQ_mean vs run
χ² / ndf 54.7 / 91
p0 298.6 ± 380.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −506.1
Std Dev 0
pull1D
Entries 92
Mean −0.002193
Std Dev 0.7711

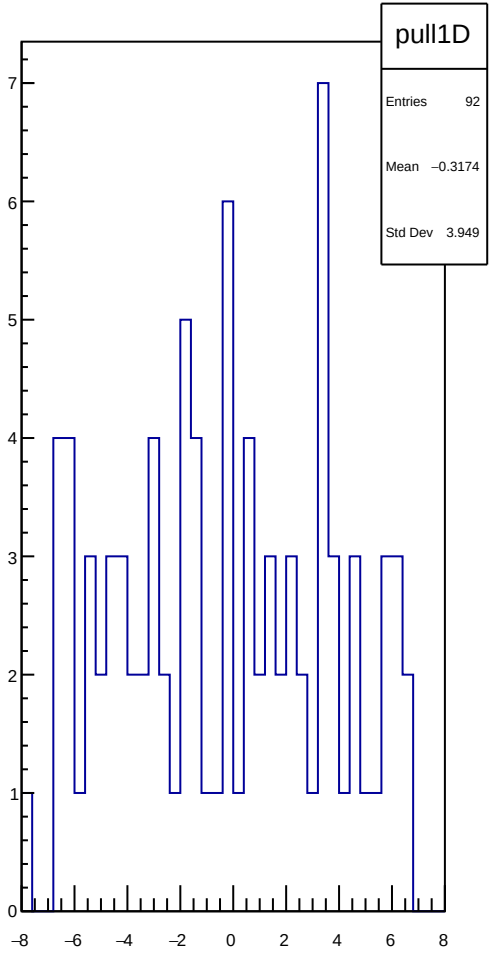

asym_cav4dQ_rms vs run
χ² / ndf 2.131e+04 / 91
p0 350.3 ± 0.2691
500
450
400
350
300

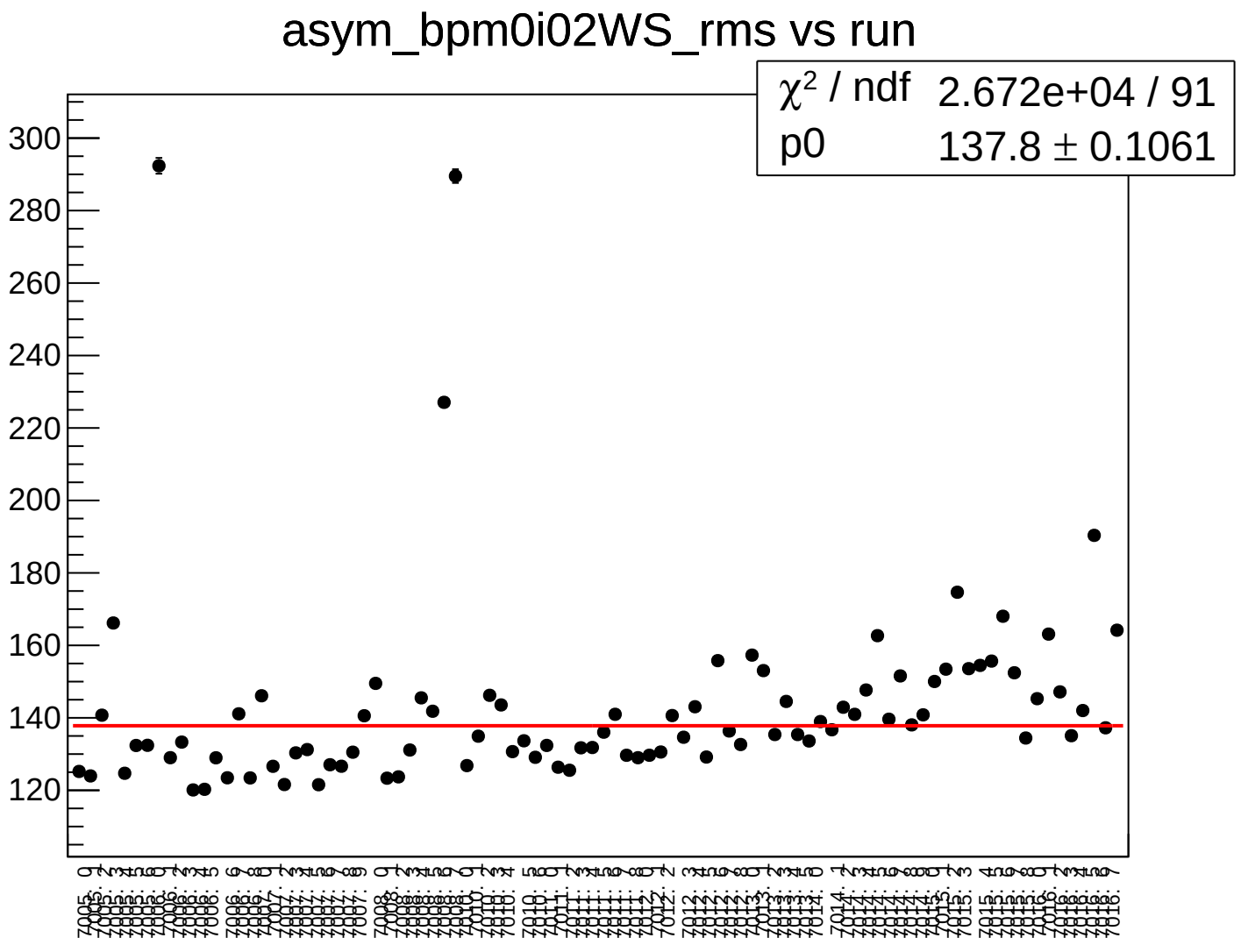

asym_bcm0l02_mean vs run
χ² / ndf 102.2 / 91
p0 −1538 ± 196.1
pull
Entries 92
Mean −238.6
Std Dev 0

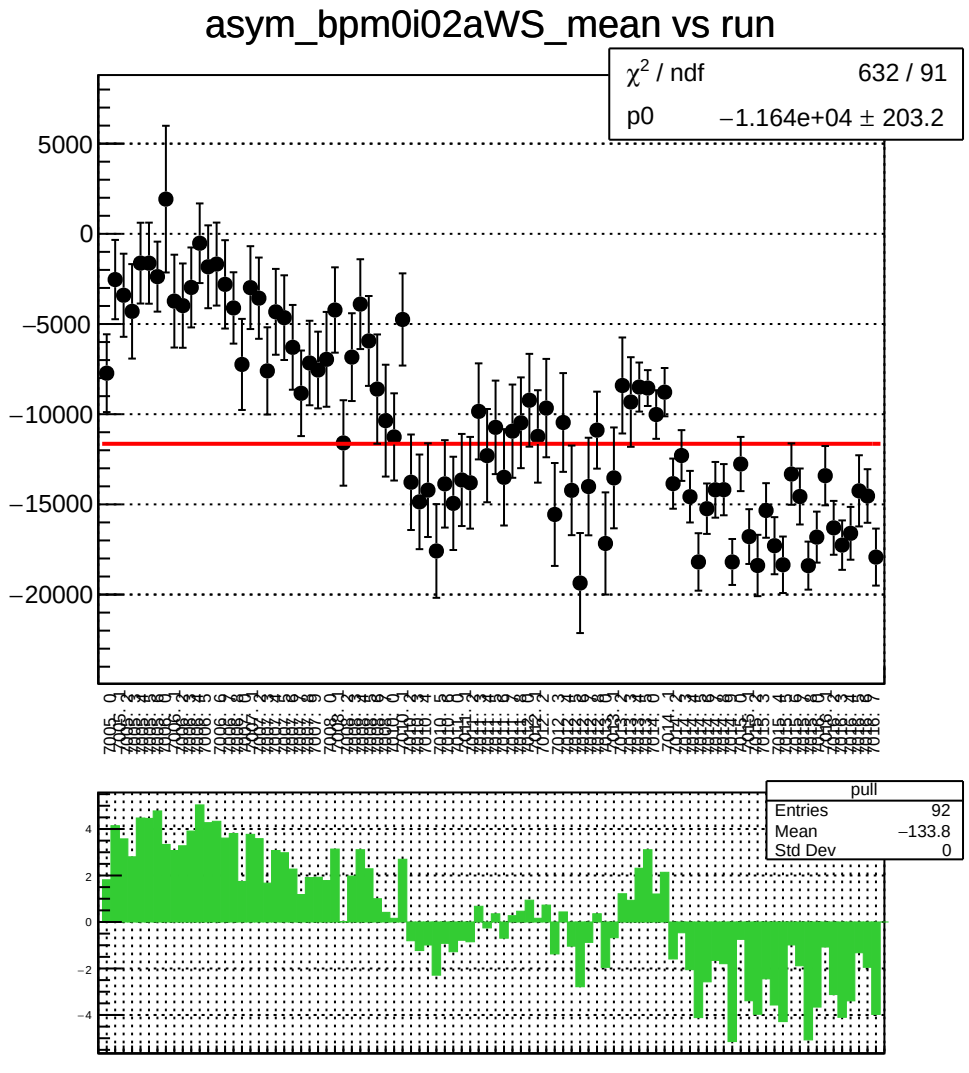

pull1D
Entries 92
Mean 0.03142
Std Dev 1.053

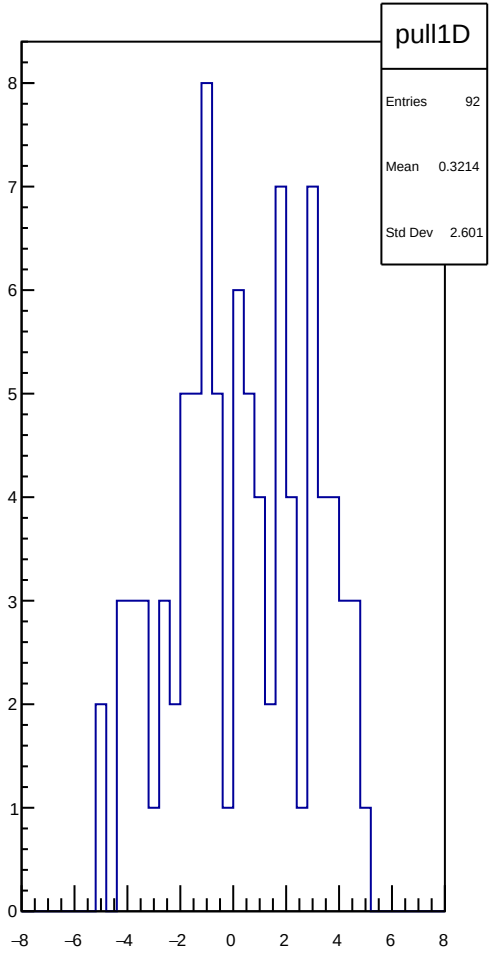

asym_bcm0l02_rms vs run
χ² / ndf 1.646e+05 / 91
p0 172.7 ± 0.1387
350
300
250
200
150
100

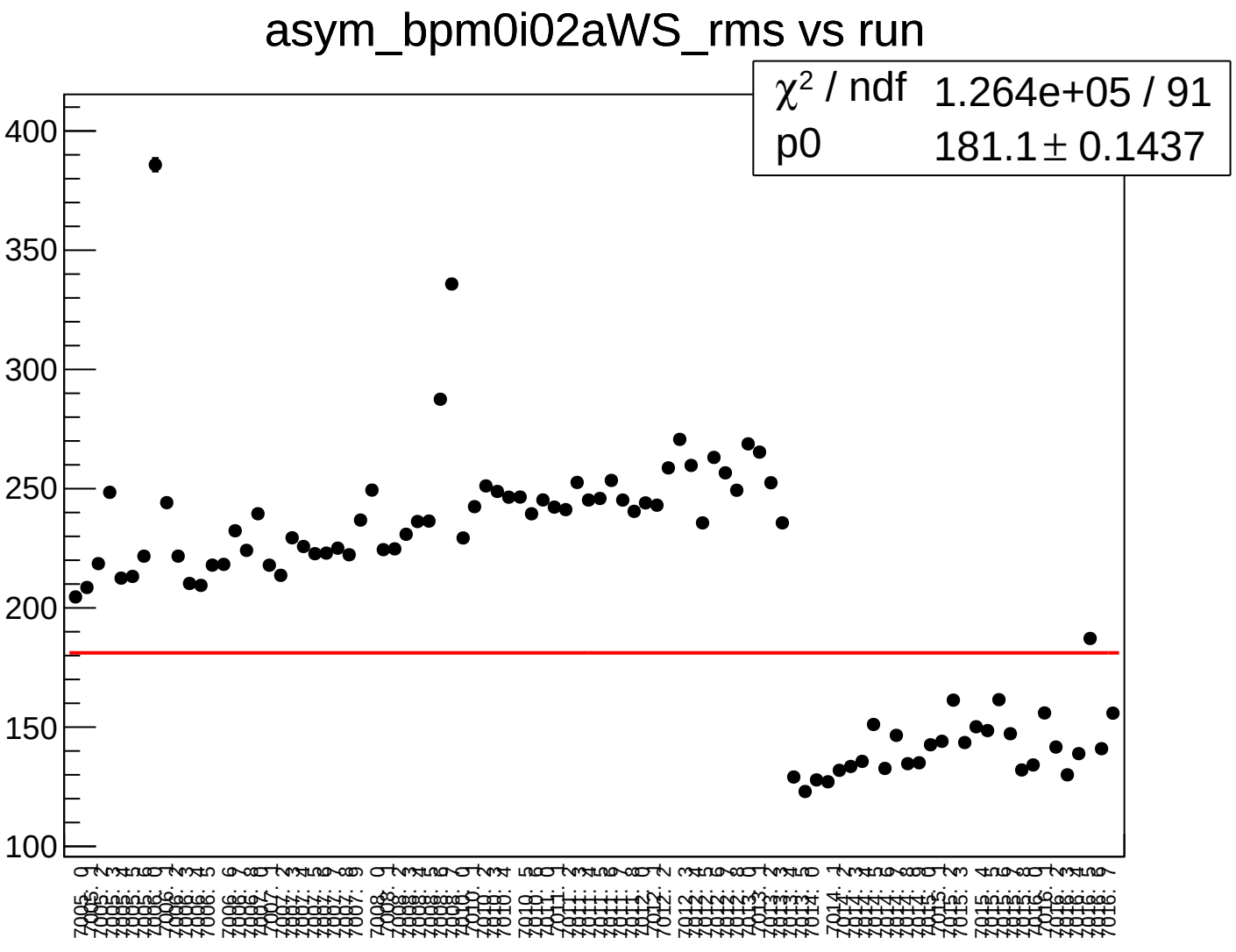

asym_bpm0i02WS_mean vs run
χ² / ndf 1566 / 91
p0 −3520 ± 150
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 536.8
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8

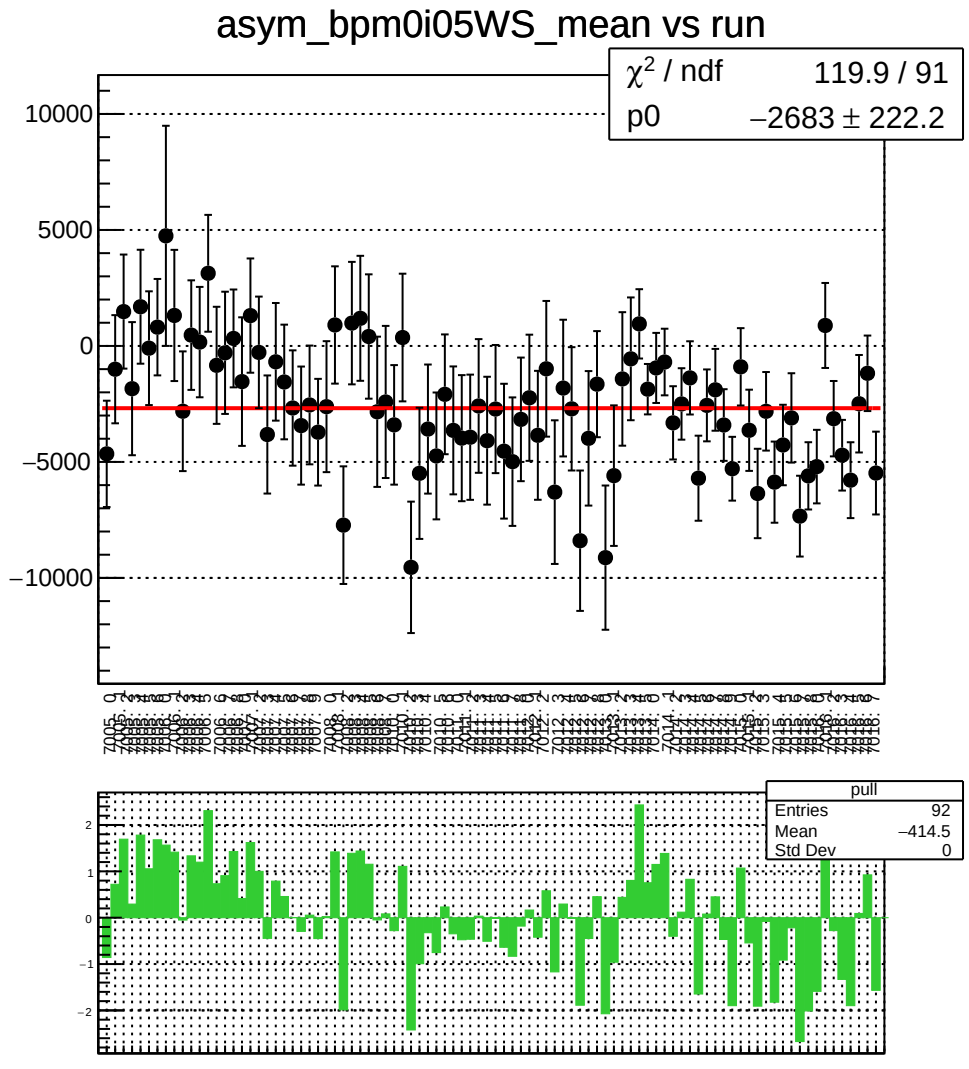

pull1D
Entries 92
Mean −0.3174
Std Dev 3.949
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

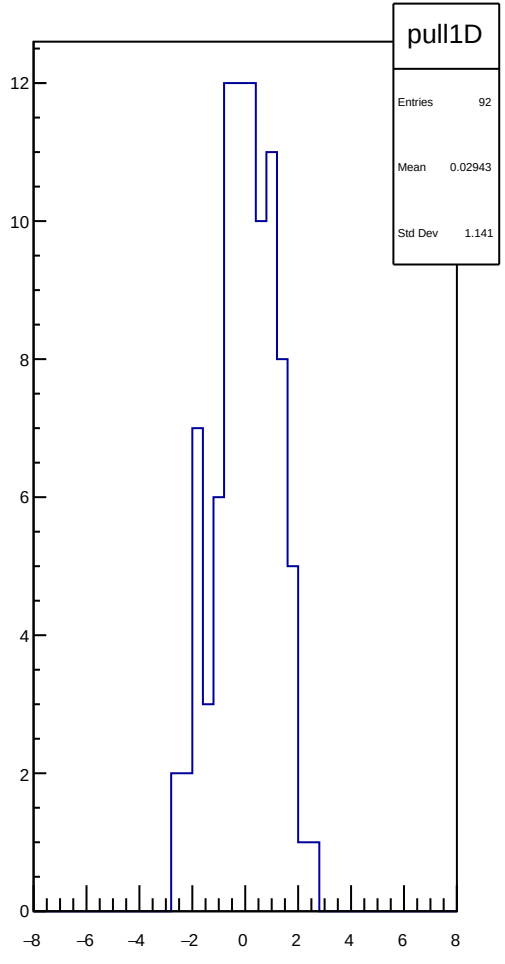

asym_bpm0i02WS_rms vs run
χ² / ndf 2.672e+04 / 91
p0 137.8 ± 0.1061
300
280
260
240
220
200
180
160
140
120

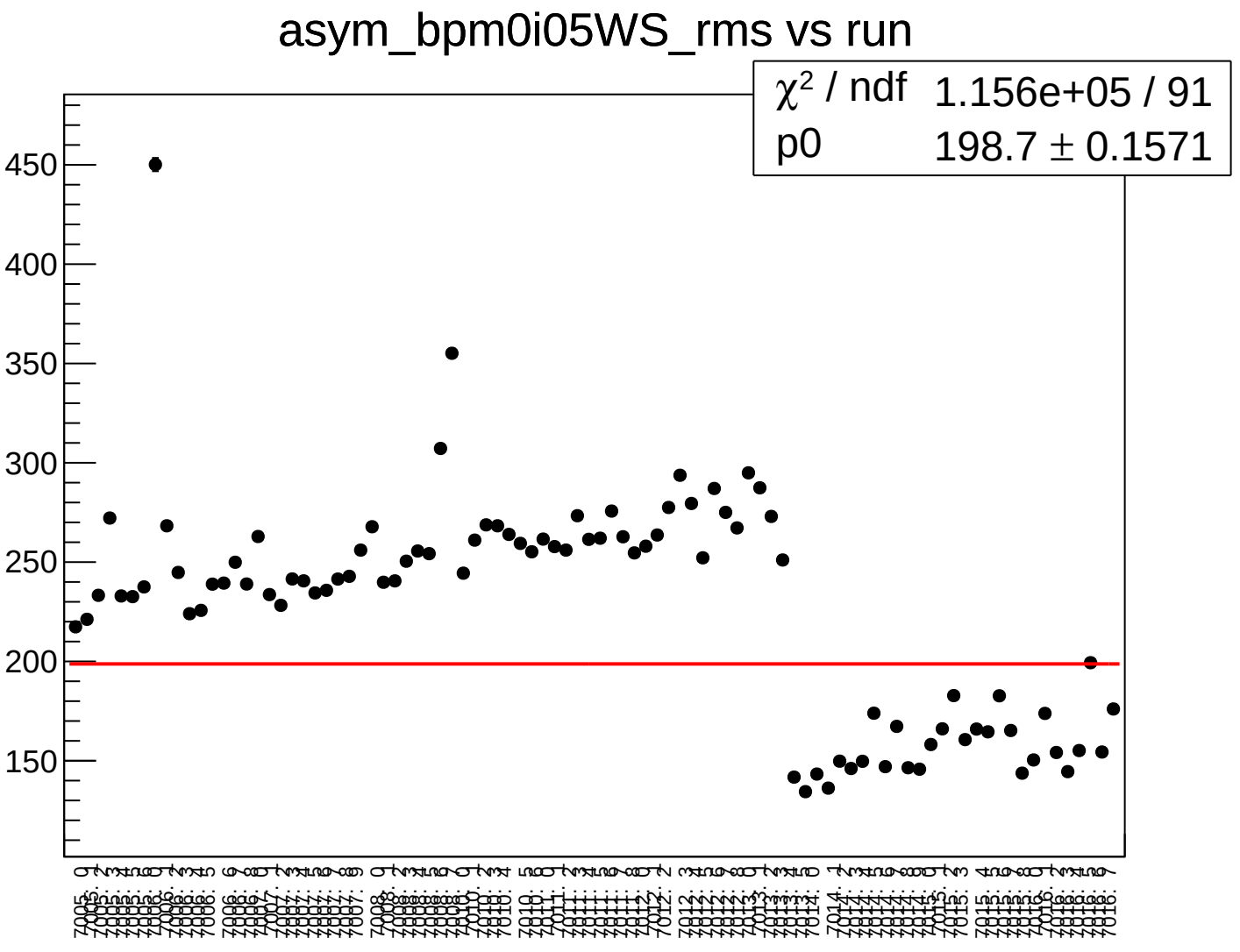

asym_bpm0i02aWS_mean vs run
χ² / ndf 632 / 91
p0 −1.164e+04 ± 203.2
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −133.8
Std Dev 0
4
2
0
−2
−4

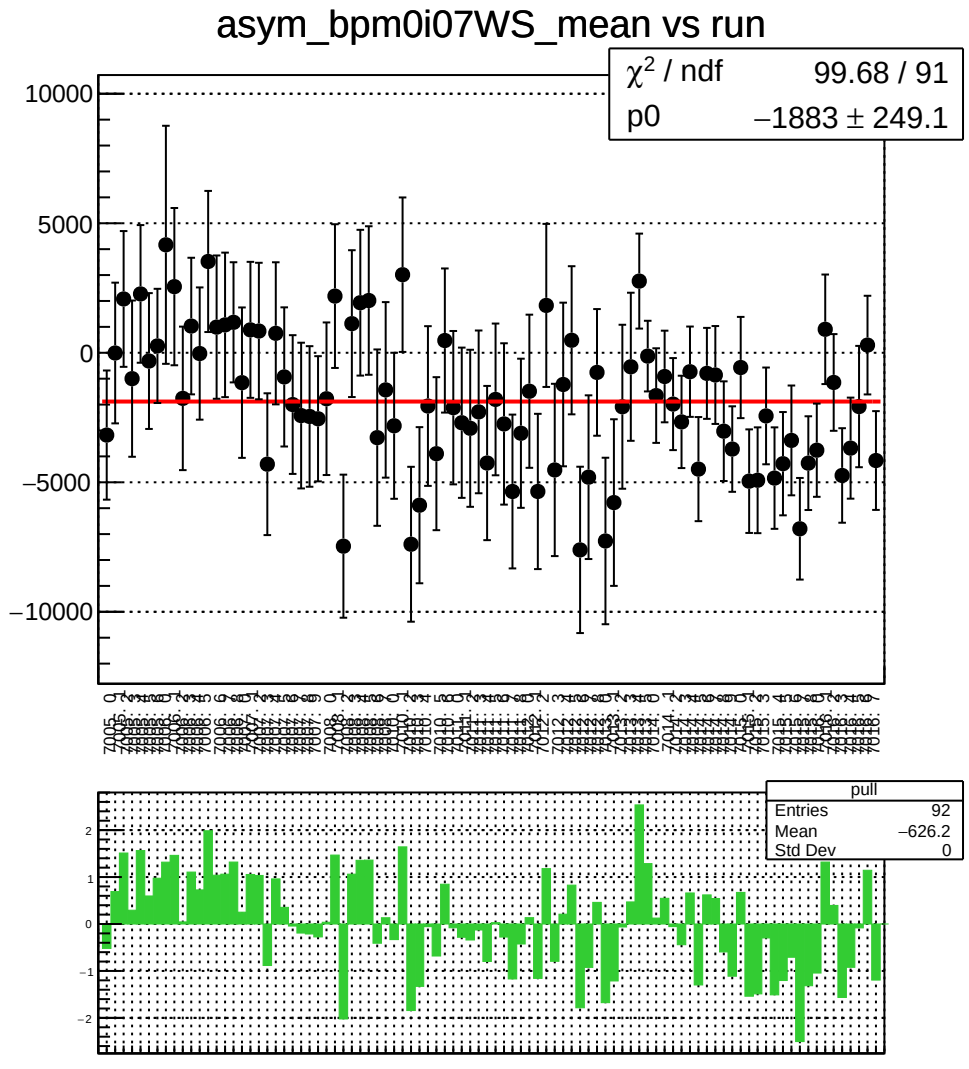

pull1D
Entries 92
Mean 0.3214
Std Dev 2.601
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

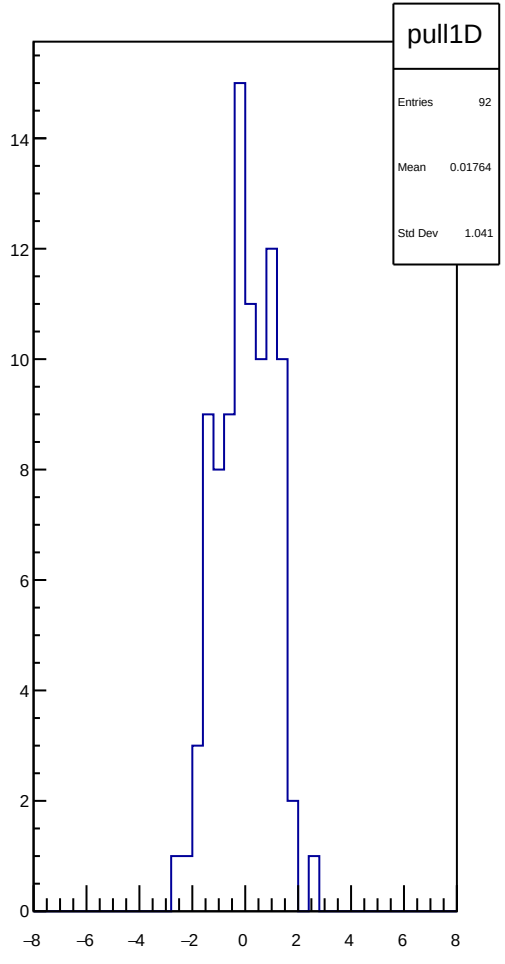

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.264e+05 / 91
p0 181.1 ± 0.1437
400
350
300
250
200
150
100

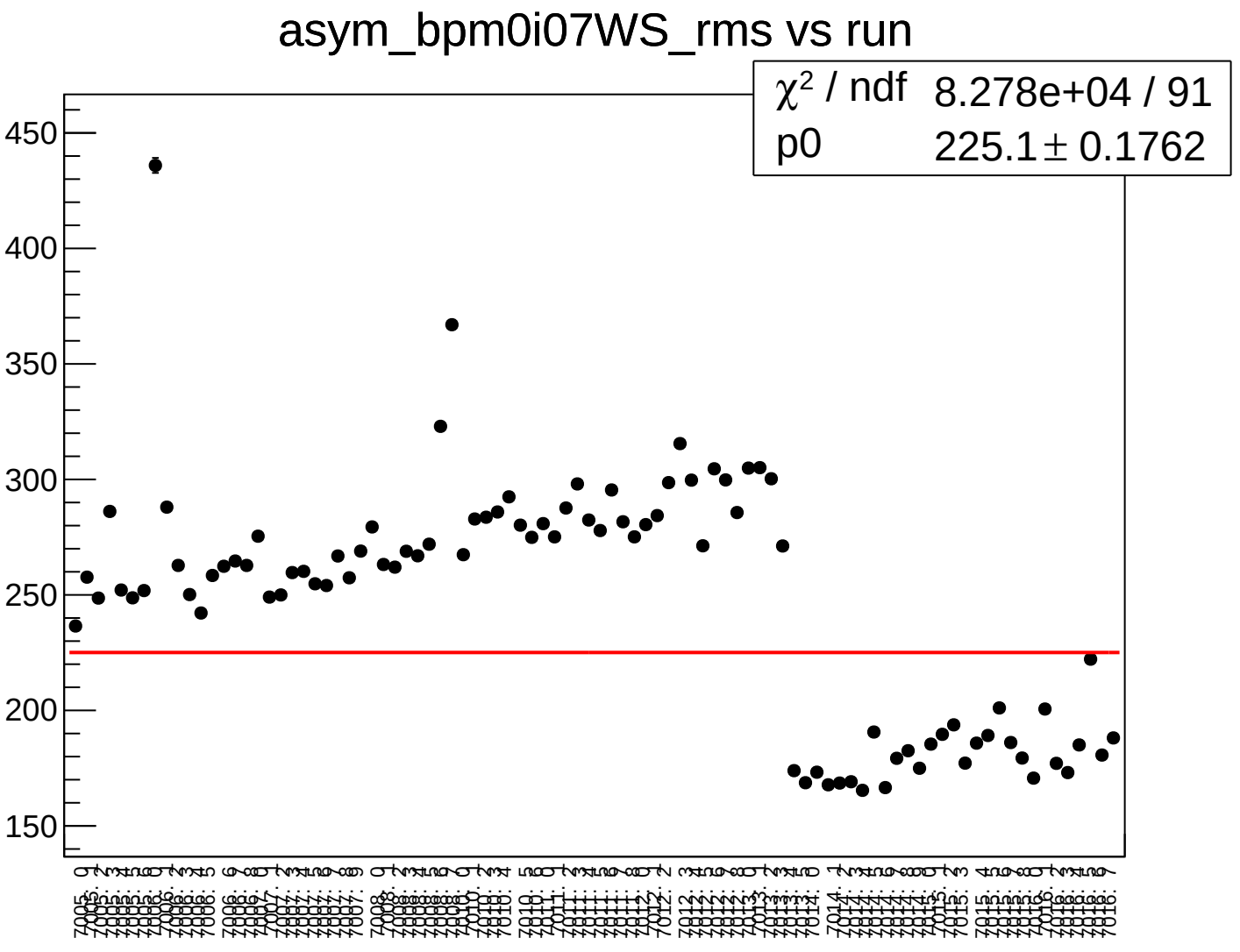

asym_bpm0i05WS_mean vs run
χ² / ndf 119.9 / 91
p0 −2683 ± 222.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −414.5
Std Dev 0
2
1
0
−1
−2

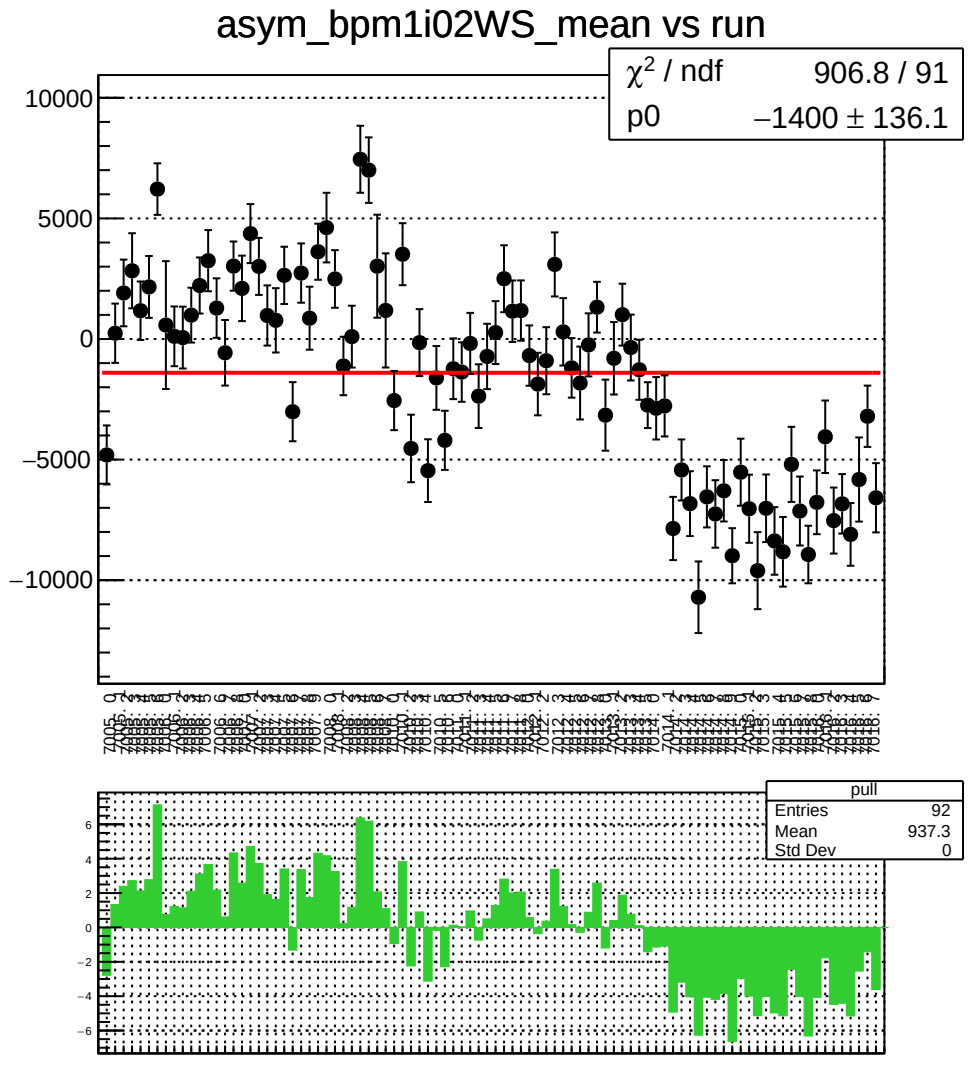

pull1D
Entries 92
Mean 0.02943
Std Dev 1.141
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

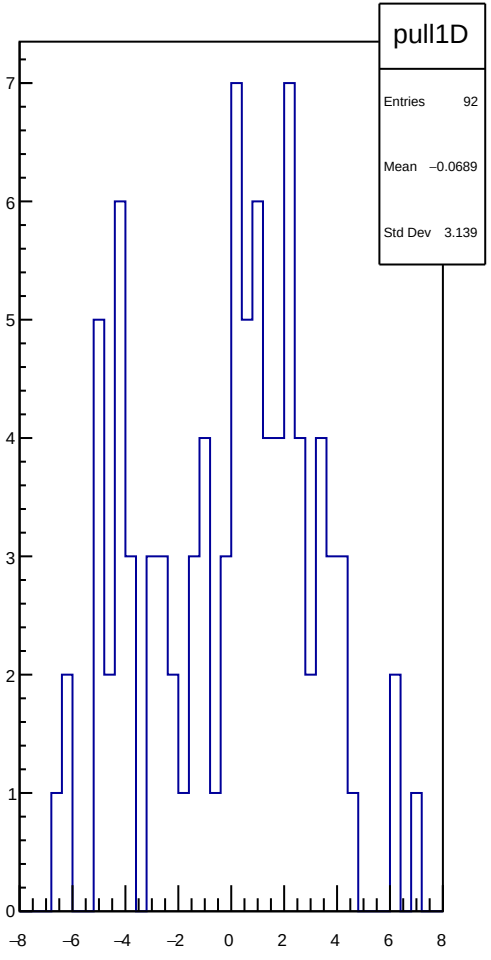

asym_bpm0i05WS_rms vs run
χ² / ndf 1.156e+05 / 91
p0 198.7 ± 0.1571
450
400
350
300
250
200
150

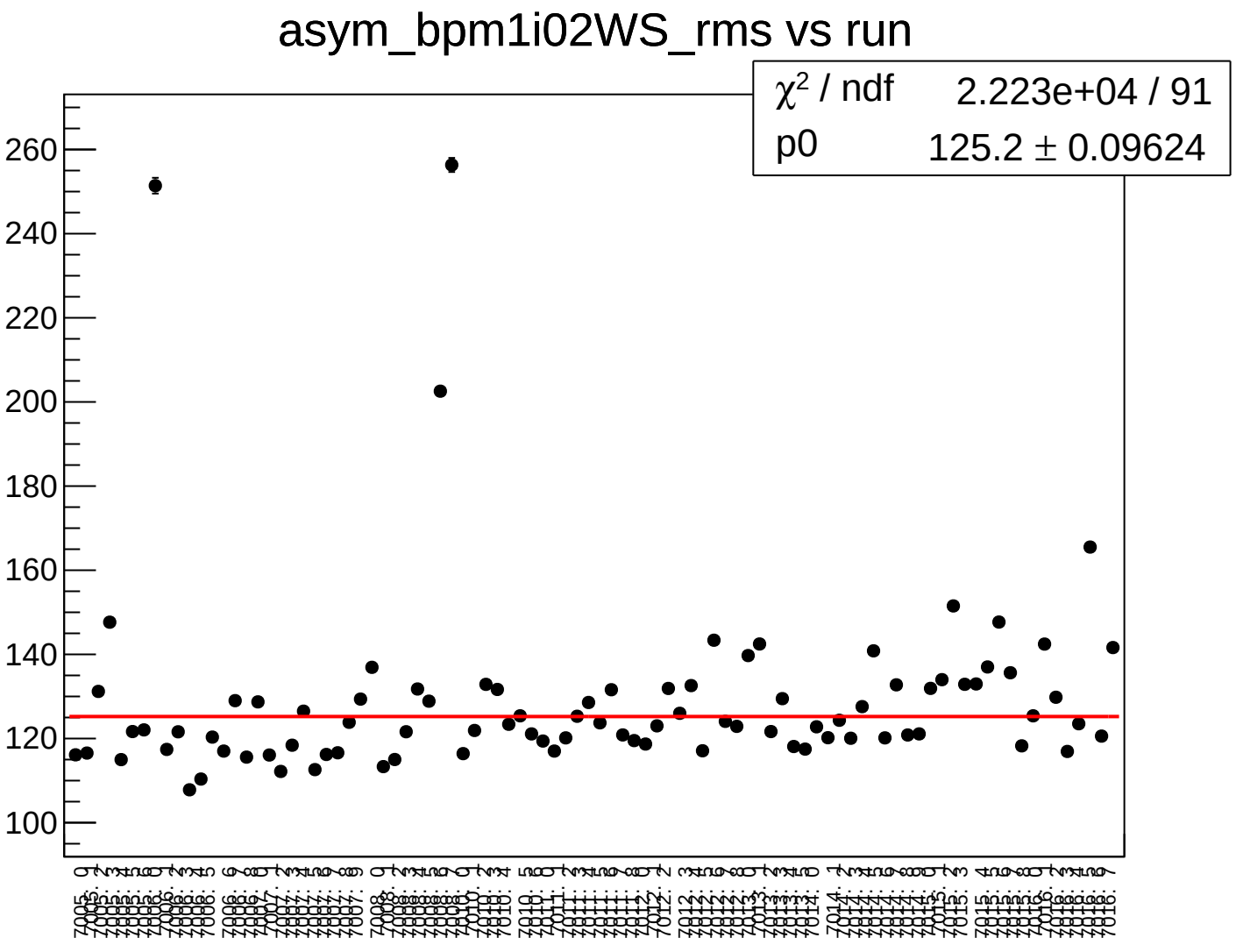

asym_bpm0i07WS_mean vs run
χ² / ndf 99.68 / 91
p0 −1883 ± 249.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −626.2
Std Dev 0
2
1
0
−1
−2

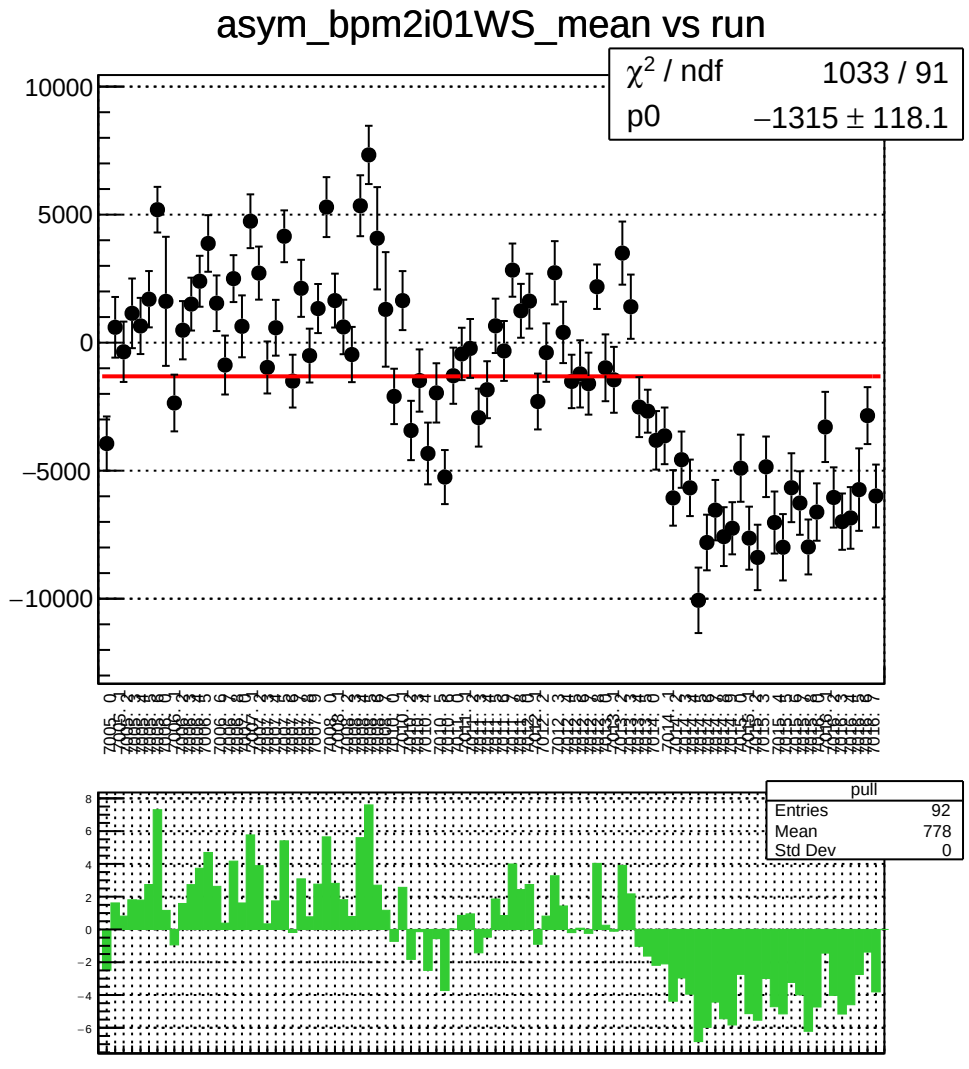

pull1D
Entries 92
Mean 0.01764
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

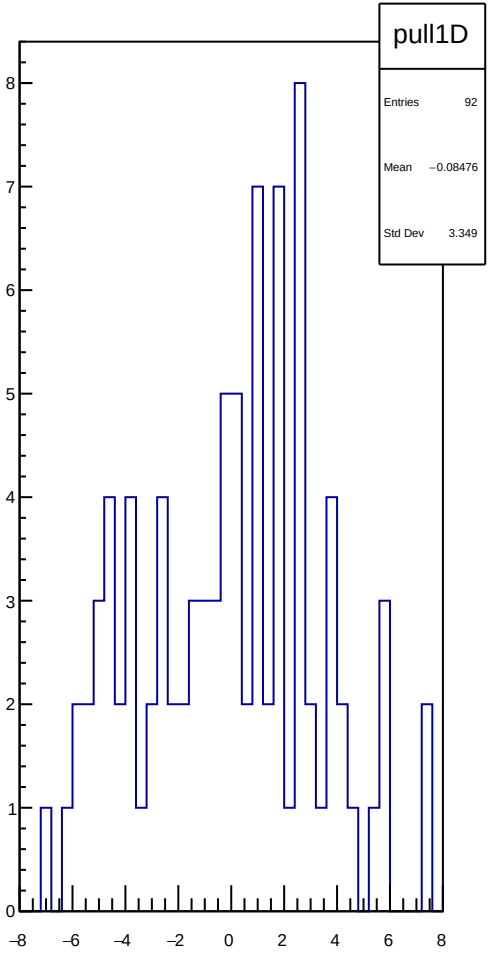

asym_bpm0i07WS_rms vs run
χ² / ndf 8.278e+04 / 91
p0 225.1 ± 0.1762
450
400
350
300
250
200
150

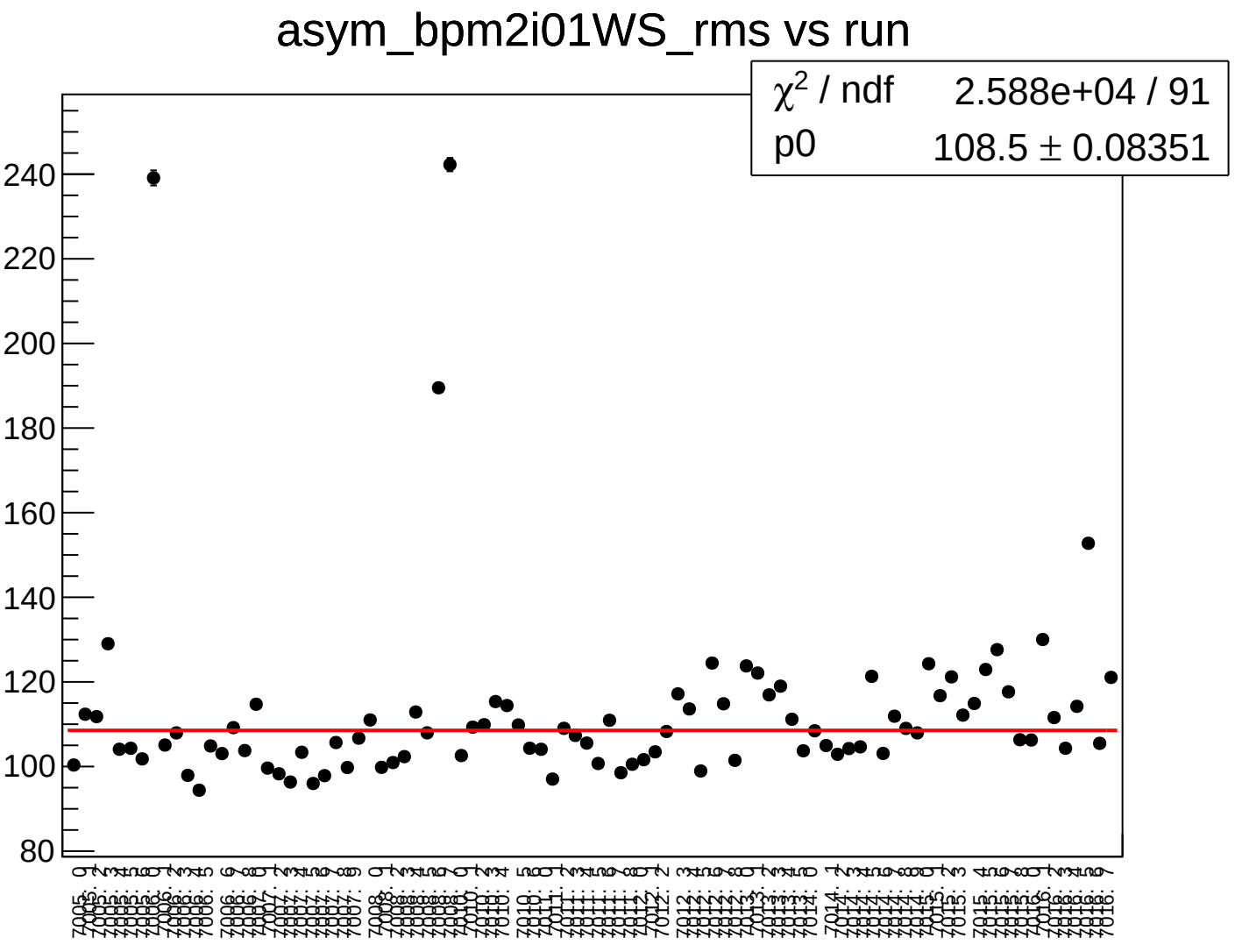

asym_bpm1i02WS_mean vs run
χ² / ndf 906.8 / 91
p0 −1400 ± 136.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 937.3
Std Dev 0
6
4
2
0
−2
−4
−6

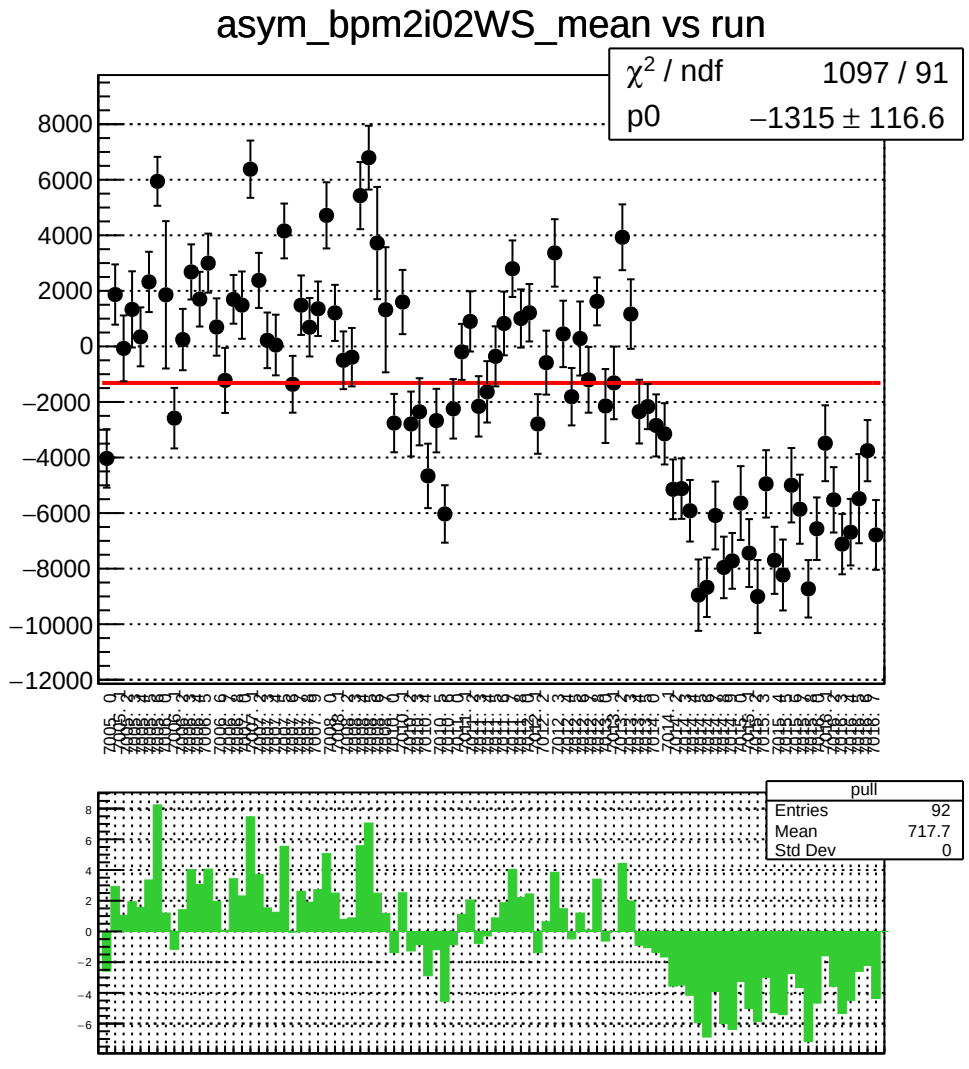

pull1D
Entries 92
Mean −0.0689
Std Dev 3.139
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

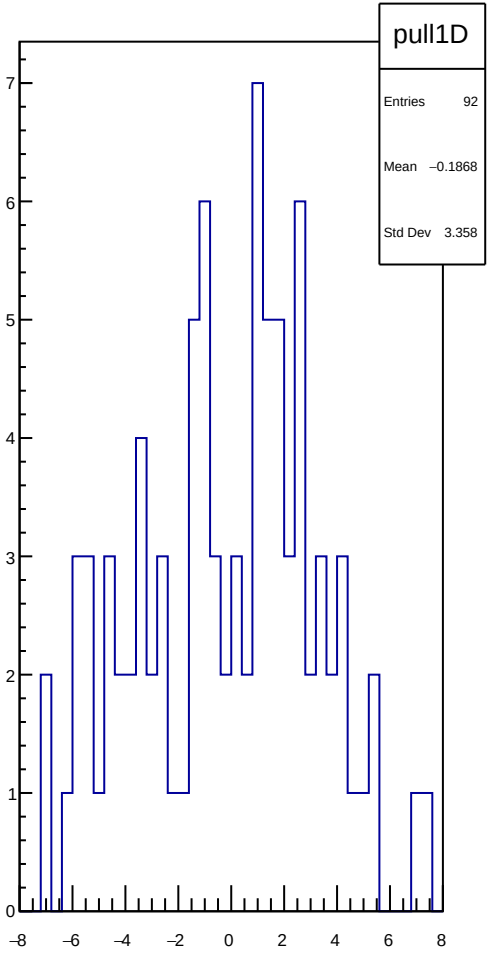

asym_bpm1i02WS_rms vs run
χ² / ndf 2.223e+04 / 91
p0 125.2 ± 0.09624
260
240
220
200
180
160
140
120
100

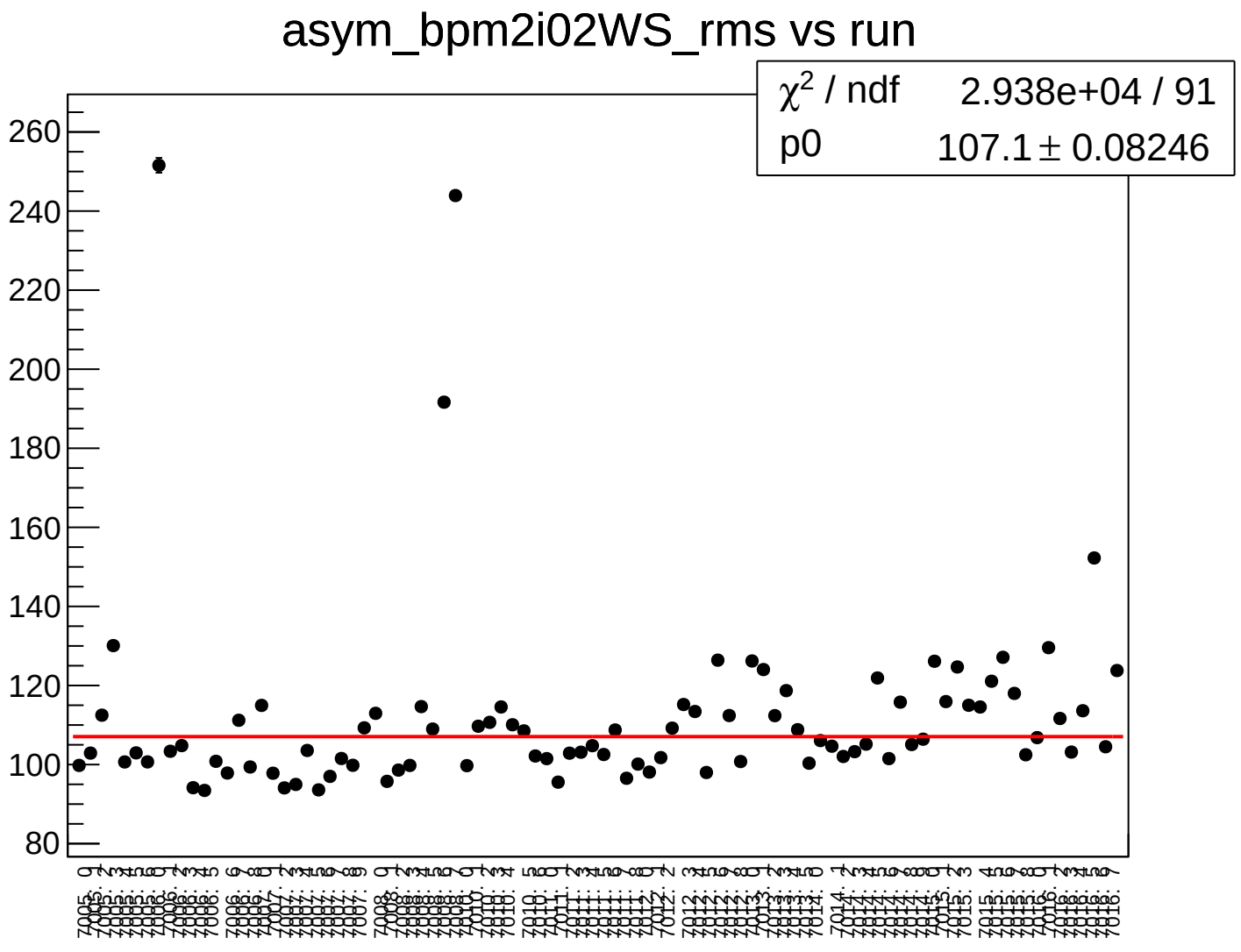

asym_bpm2i01WS_mean vs run
χ² / ndf 1033 / 91
p0 −1315 ± 118.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 778
Std Dev 0
8
6
4
2
0
−2
−4
−6

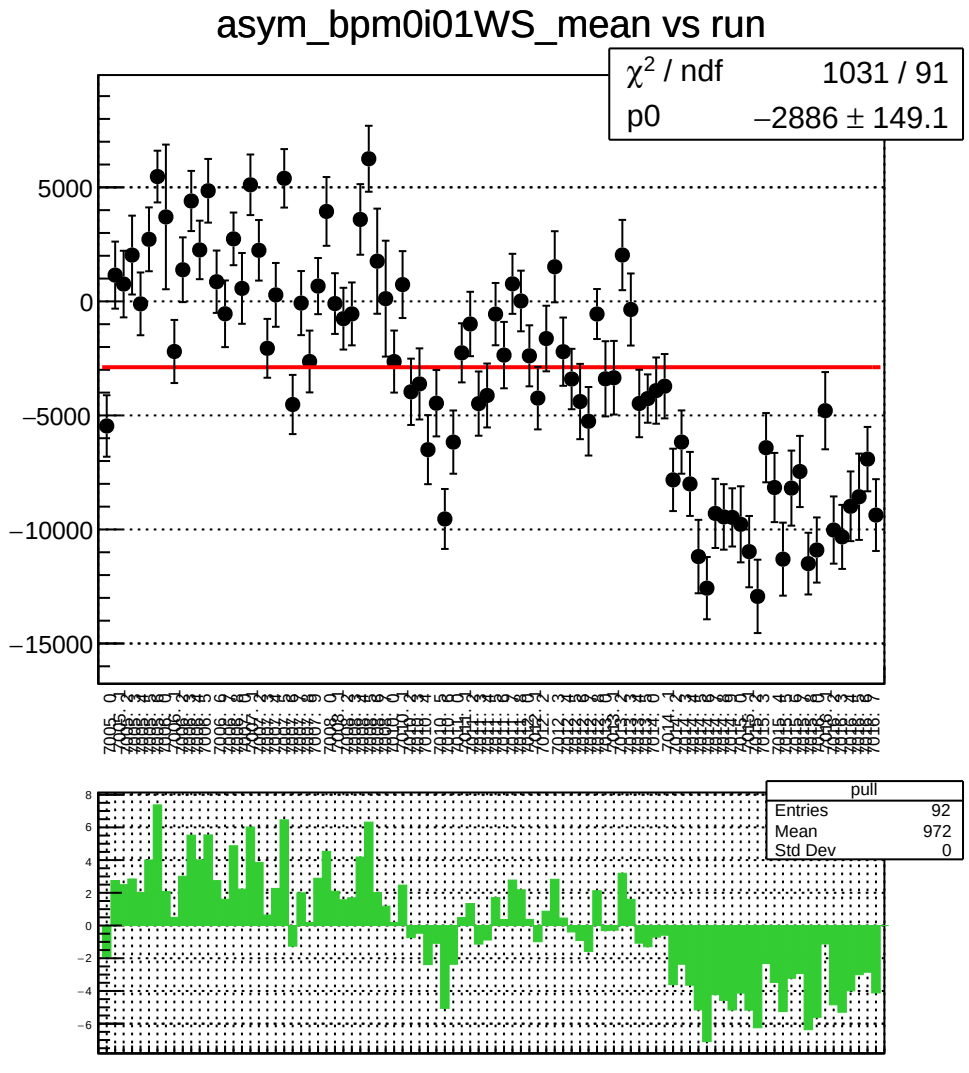

pull1D
Entries 92
Mean −0.08476
Std Dev 3.349
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

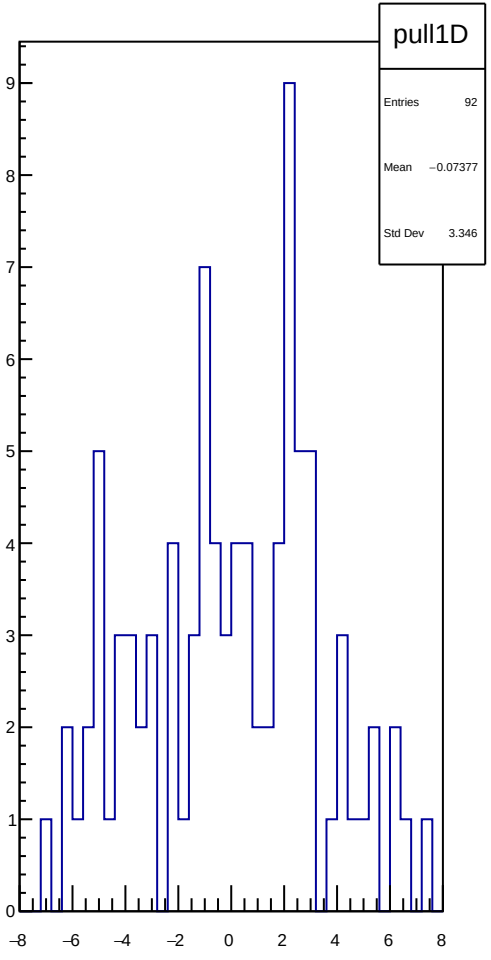

asym_bpm2i01WS_rms vs run
χ² / ndf 2.588e+04 / 91
p0 108.5 ± 0.08351
240
220
200
180
160
140
120
100
80

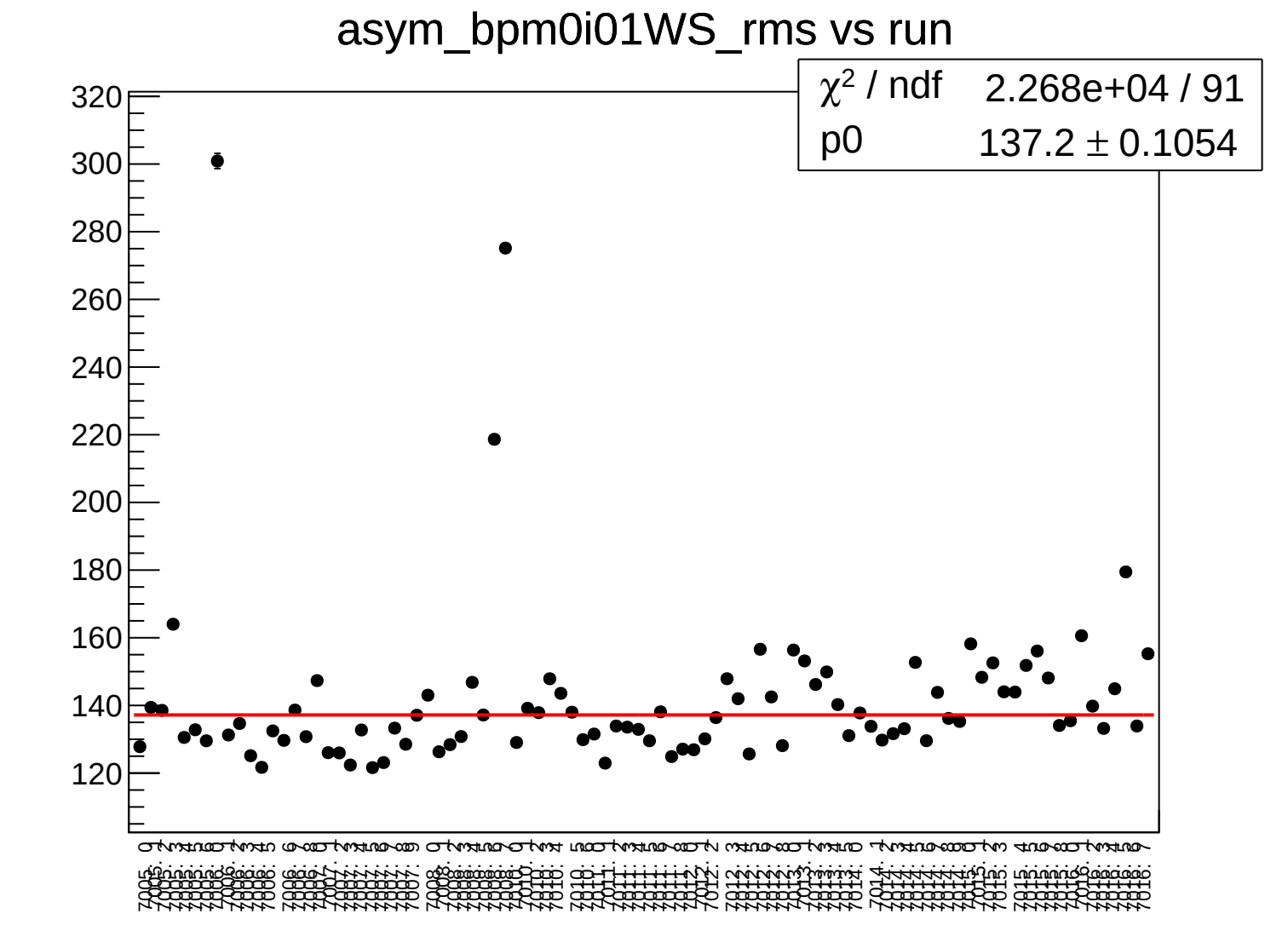

asym_bpm2i02WS_mean vs run
χ² / ndf 1097 / 91
p0 −1315 ± 116.6
pull
Entries 92
Mean 717.7
Std Dev 0

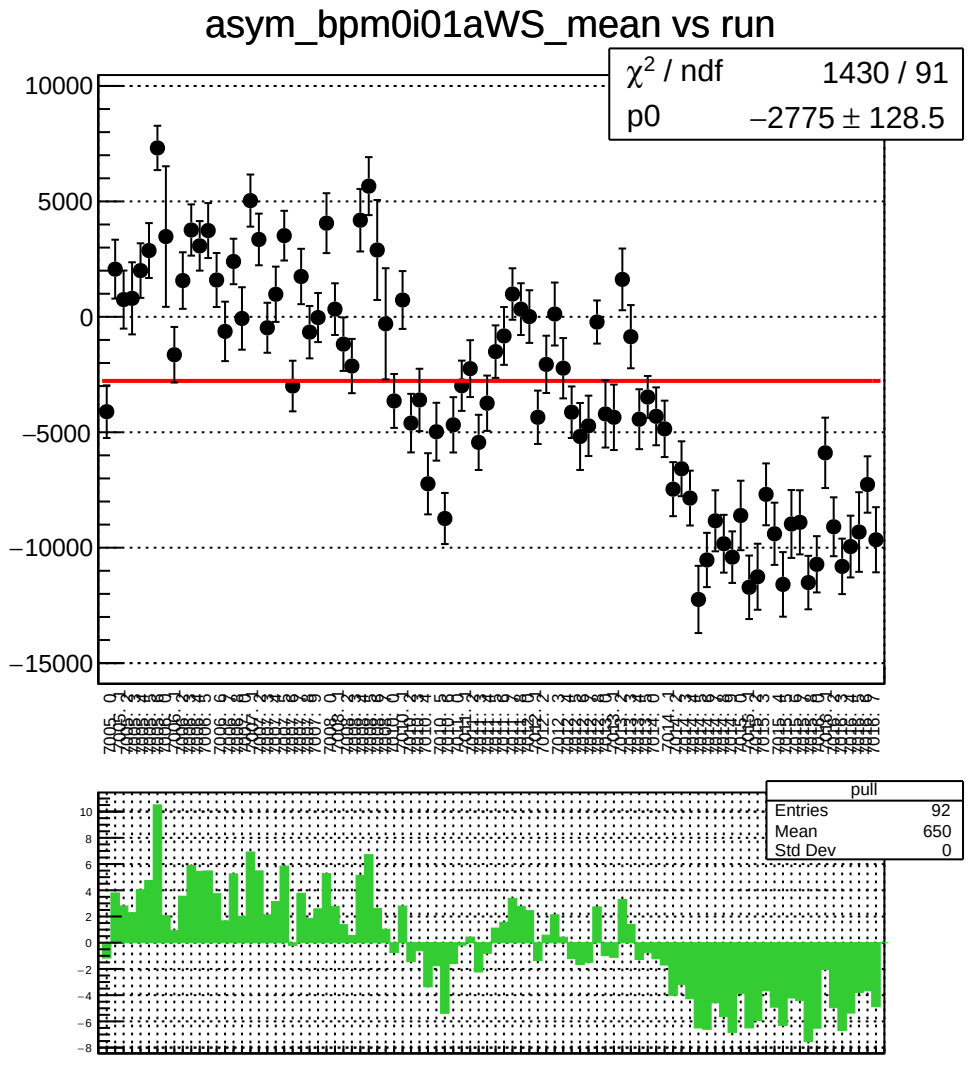

pull1D
Entries 92
Mean −0.1868
Std Dev 3.358

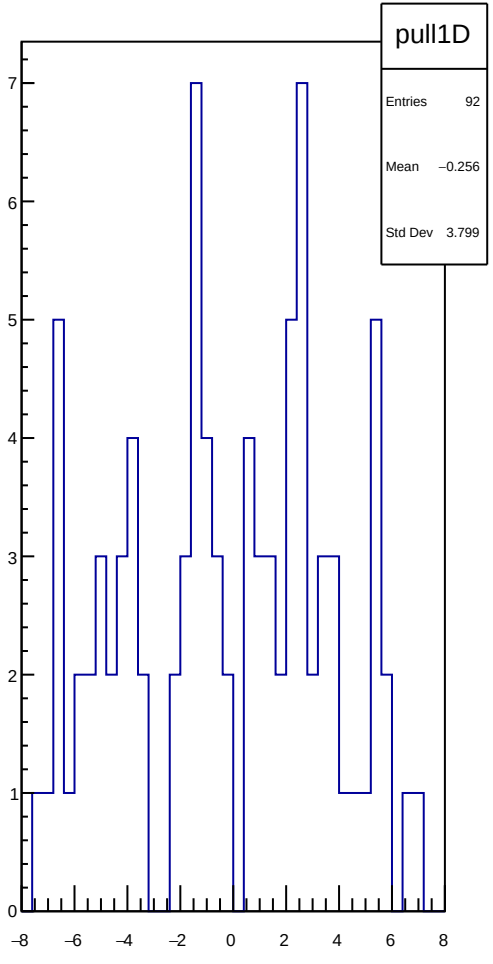

asym_bpm2i02WS_rms vs run
$\chi^2$ / ndf 2.938e+04 / 91
p0 107.1 ± 0.08246
260
240
220
200
180
160
140
120
100
80

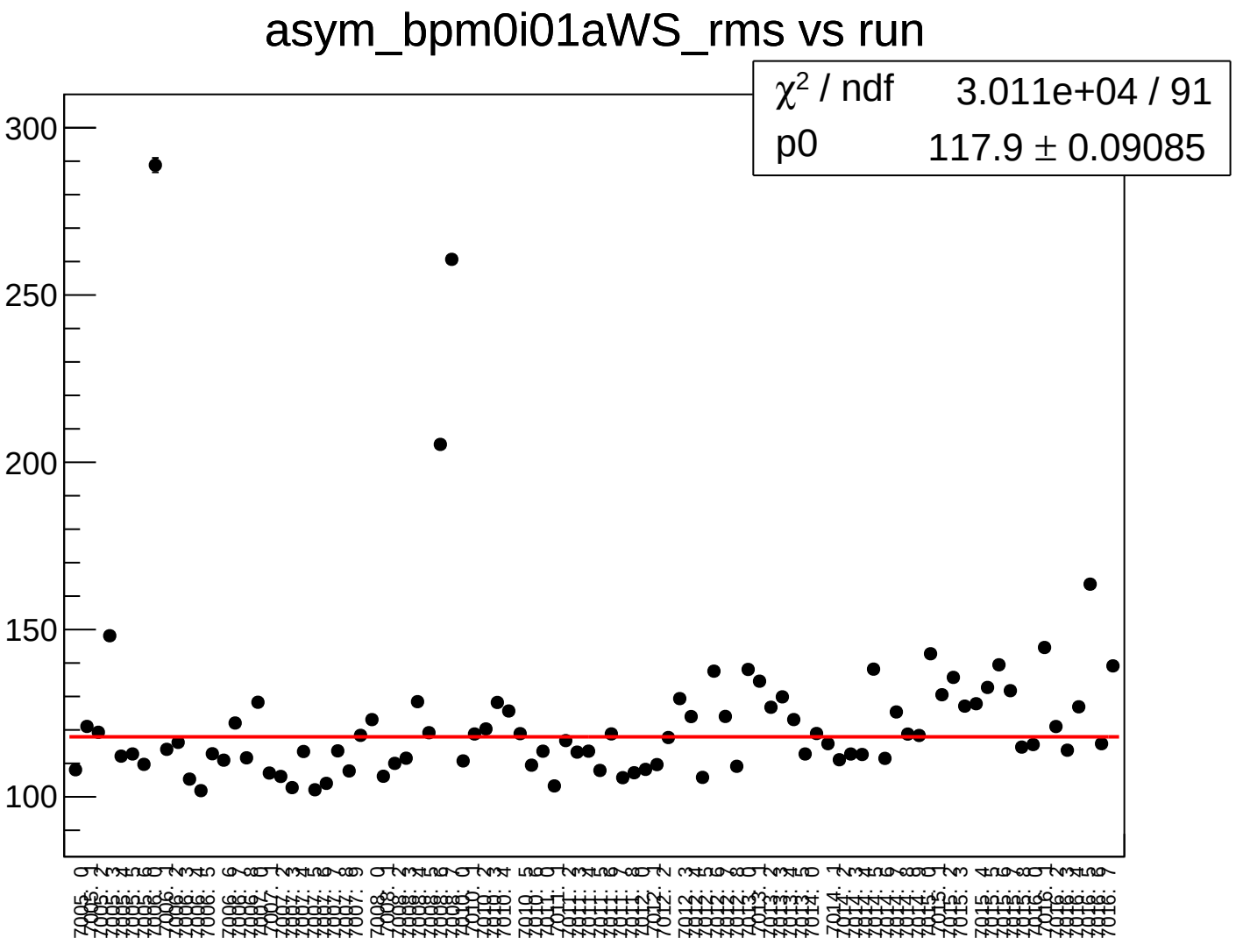

asym_bpm0i01WS_mean vs run
$\chi^2$ / ndf 1031 / 91
p0 −2886 ± 149.1
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 972
Std Dev 0
8
6
4
2
0
−2
−4
−6

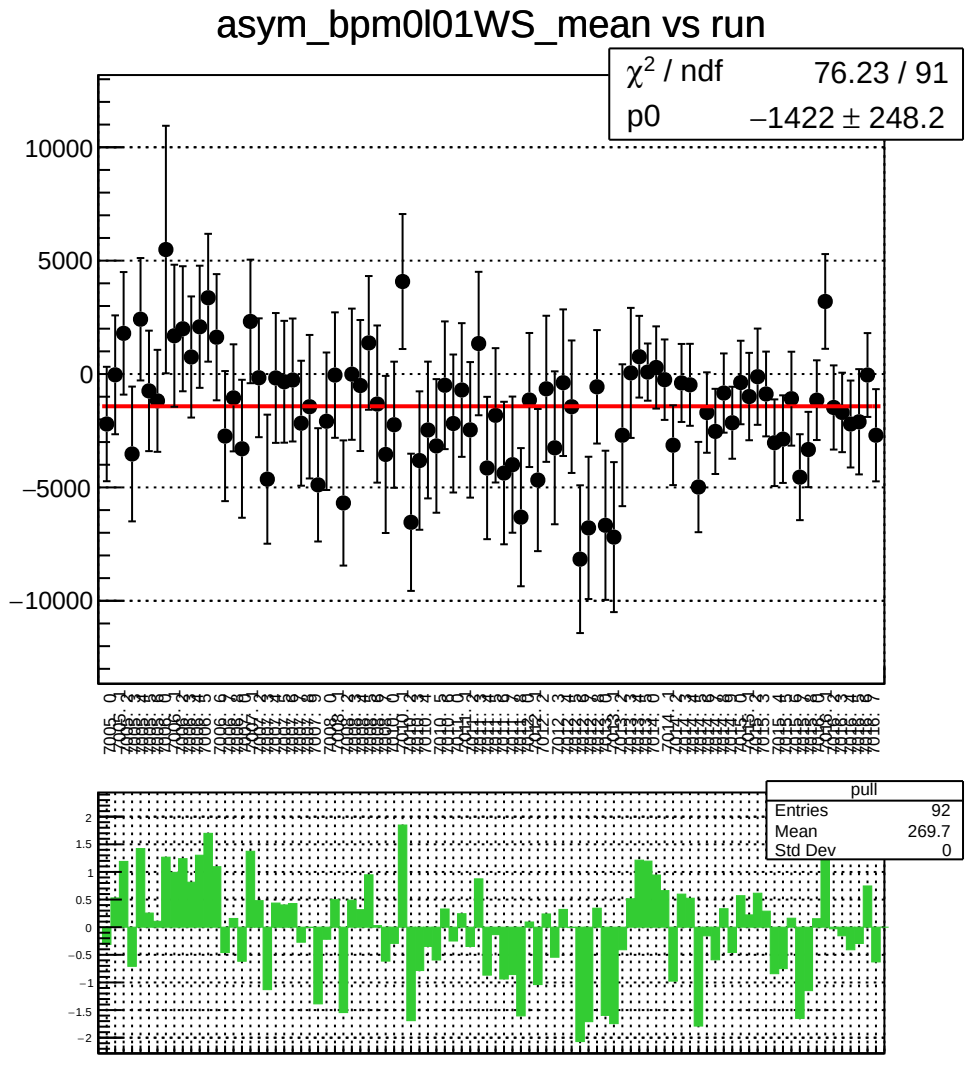

pull1D
Entries 92
Mean −0.07377
Std Dev 3.346
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

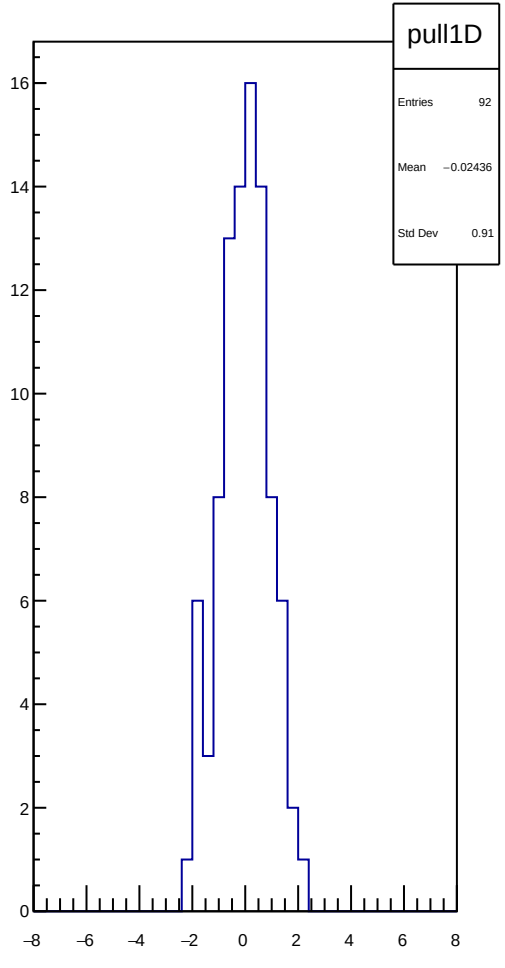

asym_bpm0i01WS_rms vs run
χ² / ndf 2.268e+04 / 91
p0 137.2 ± 0.1054
320
300
280
260
240
220
200
180
160
140
120

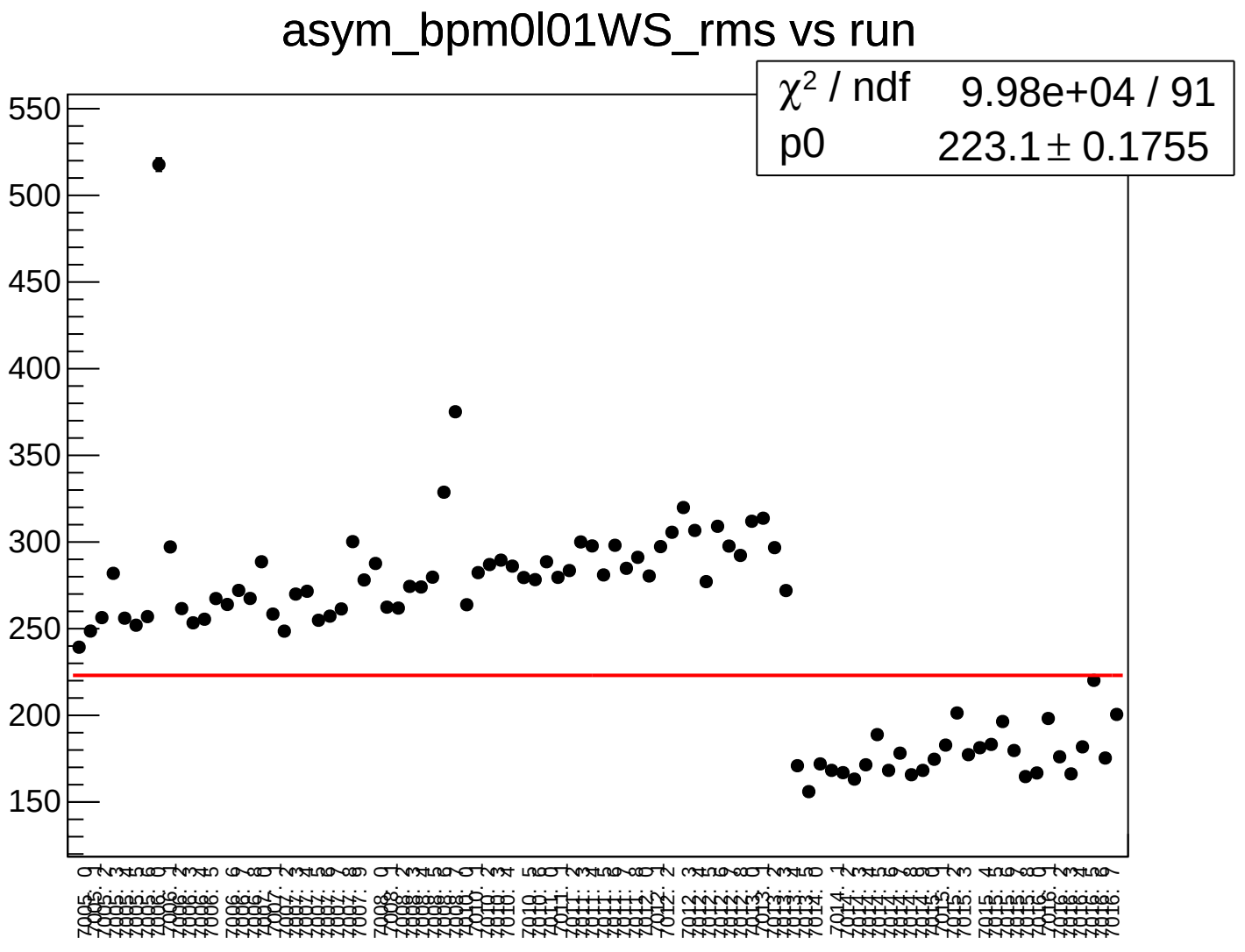

asym_bpm0i01aWS_mean vs run
χ² / ndf 1430 / 91
p0 −2775 ± 128.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 650
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

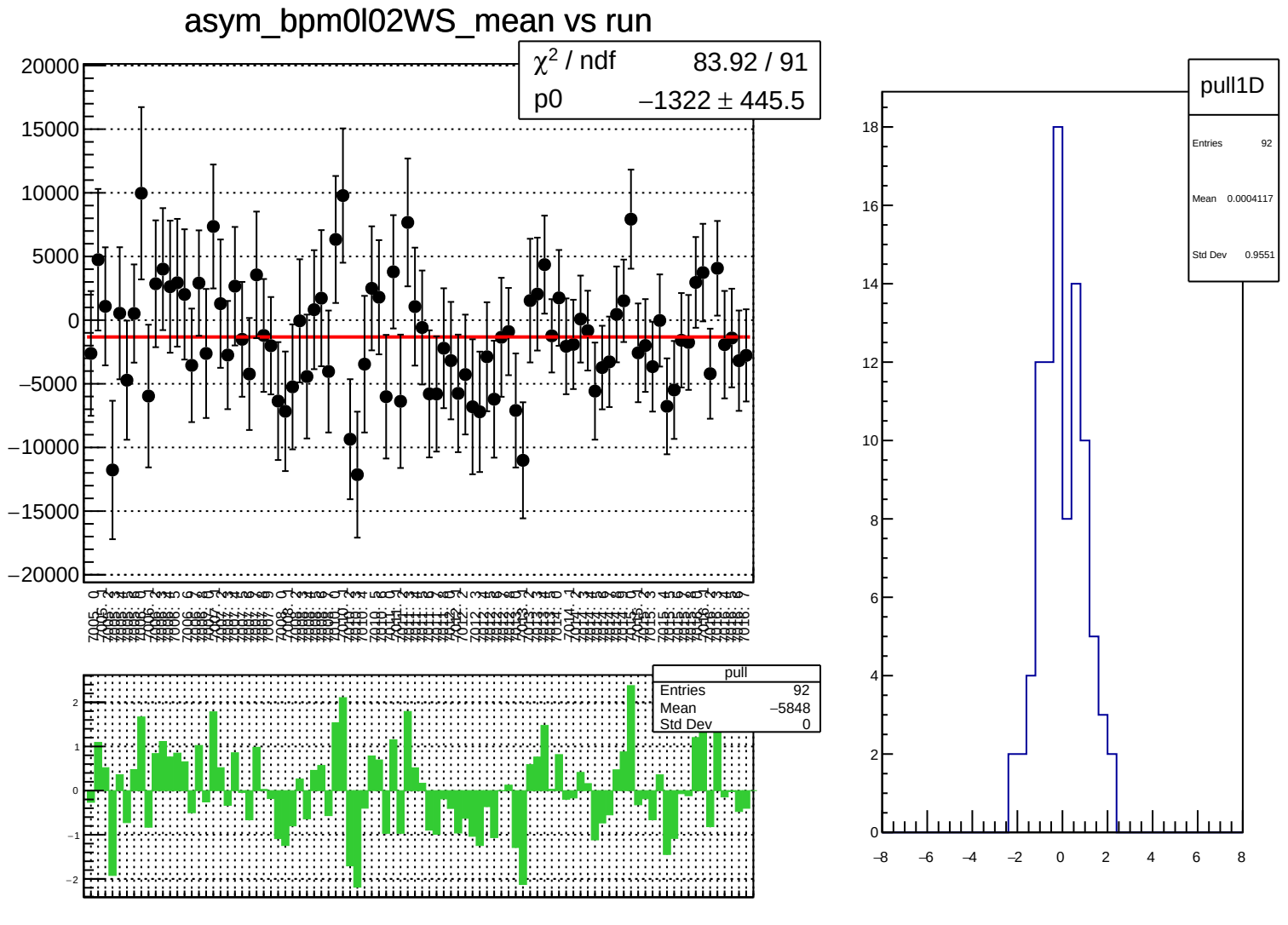

pull1D
Entries 92
Mean −0.256
Std Dev 3.799
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

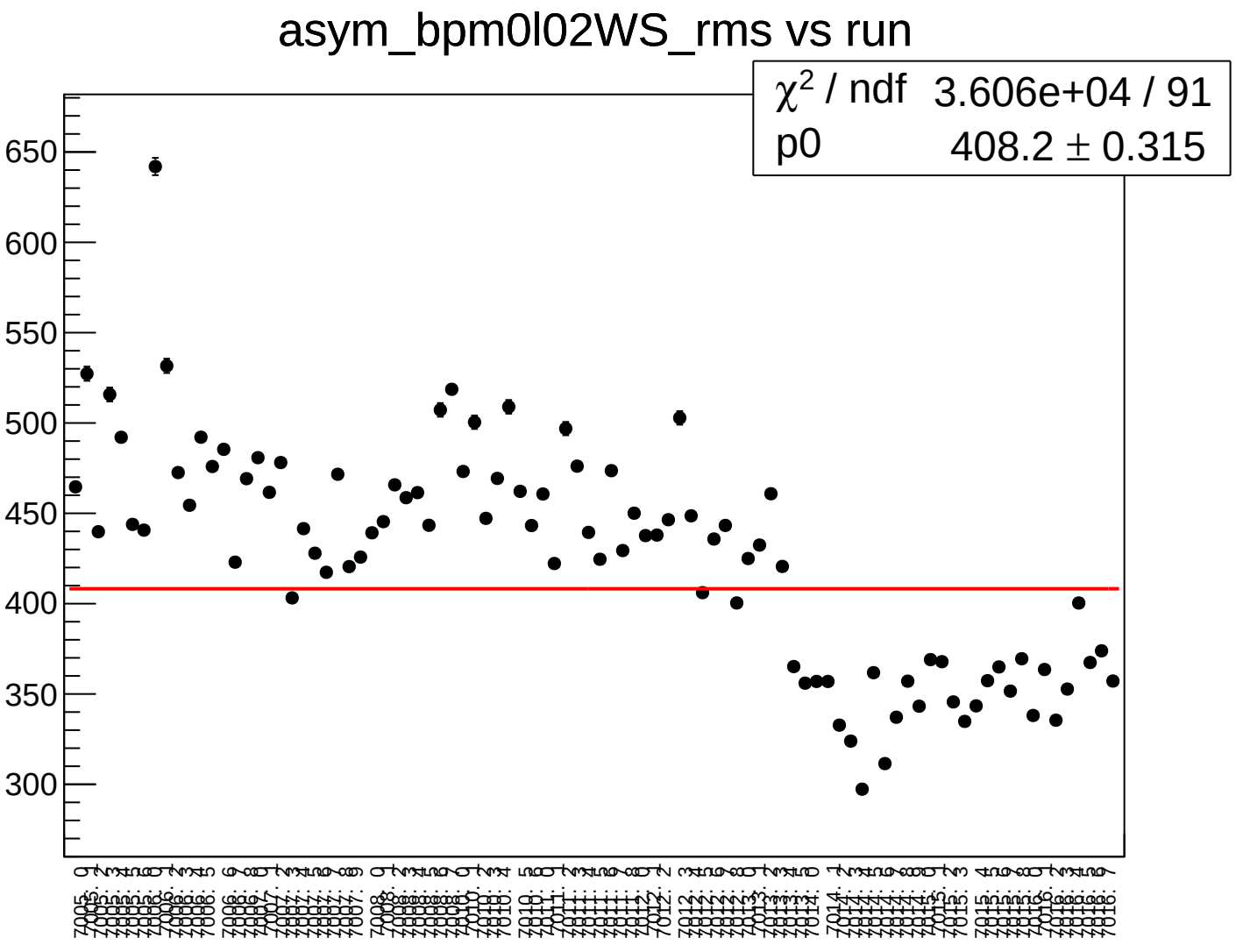

asym_bpm0i01aWS_rms vs run
χ² / ndf 3.011e+04 / 91
p0 117.9 ± 0.09085
300
250
200
150
100

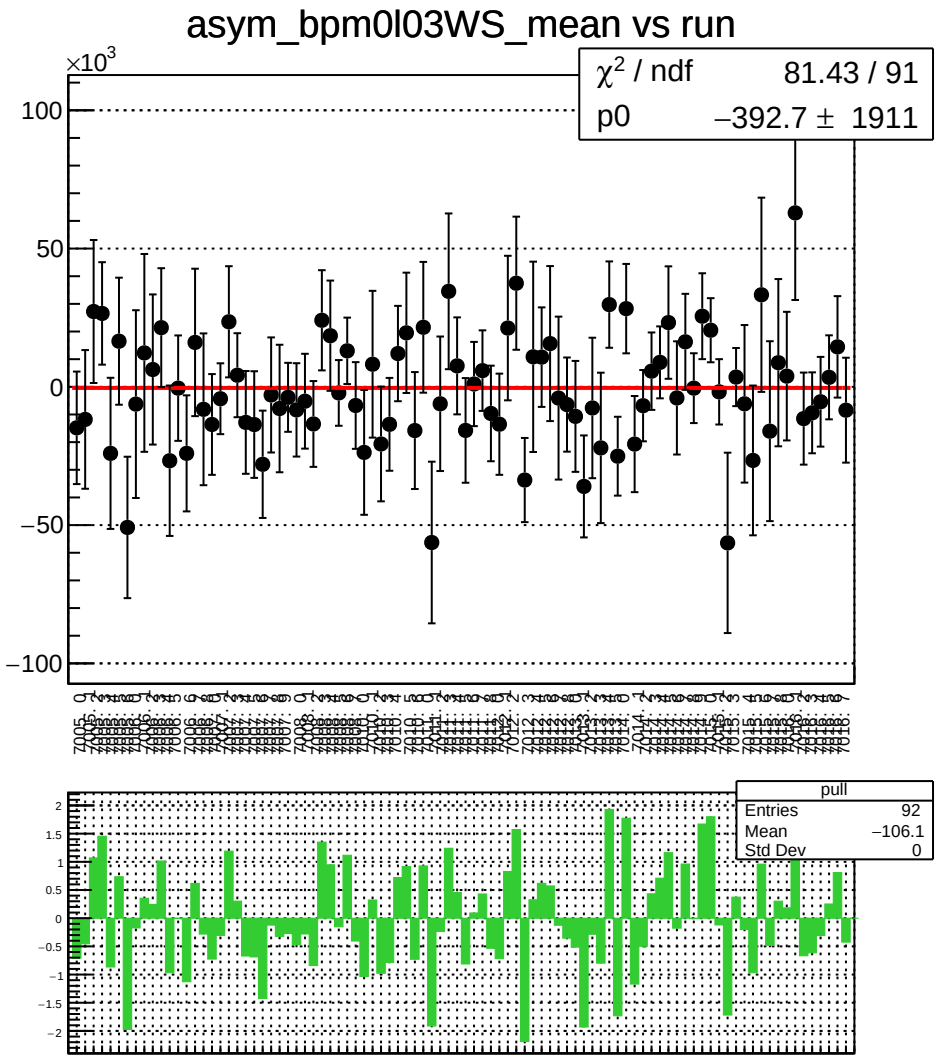

asym_bpm0l01WS_mean vs run
χ² / ndf 76.23 / 91
p0 −1422 ± 248.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 269.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

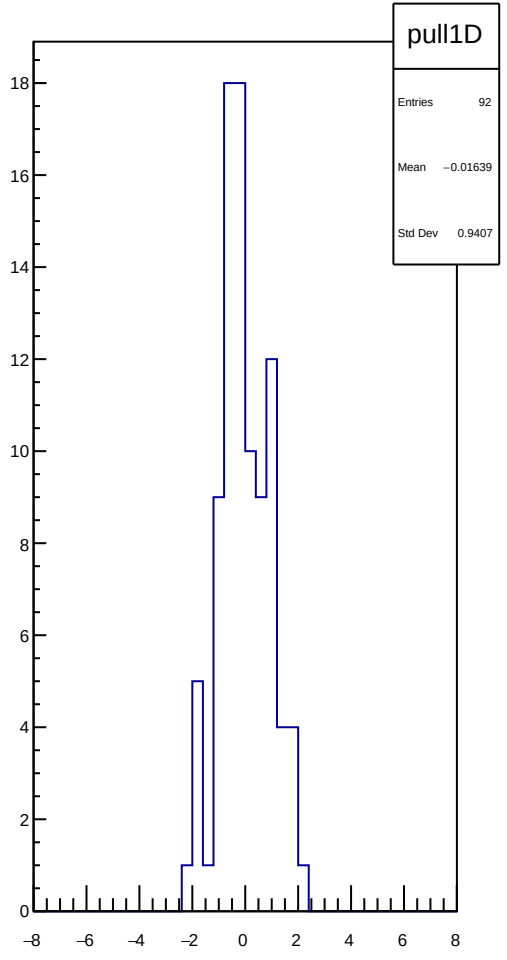

pull1D
Entries 92
Mean −0.02436
Std Dev 0.91
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

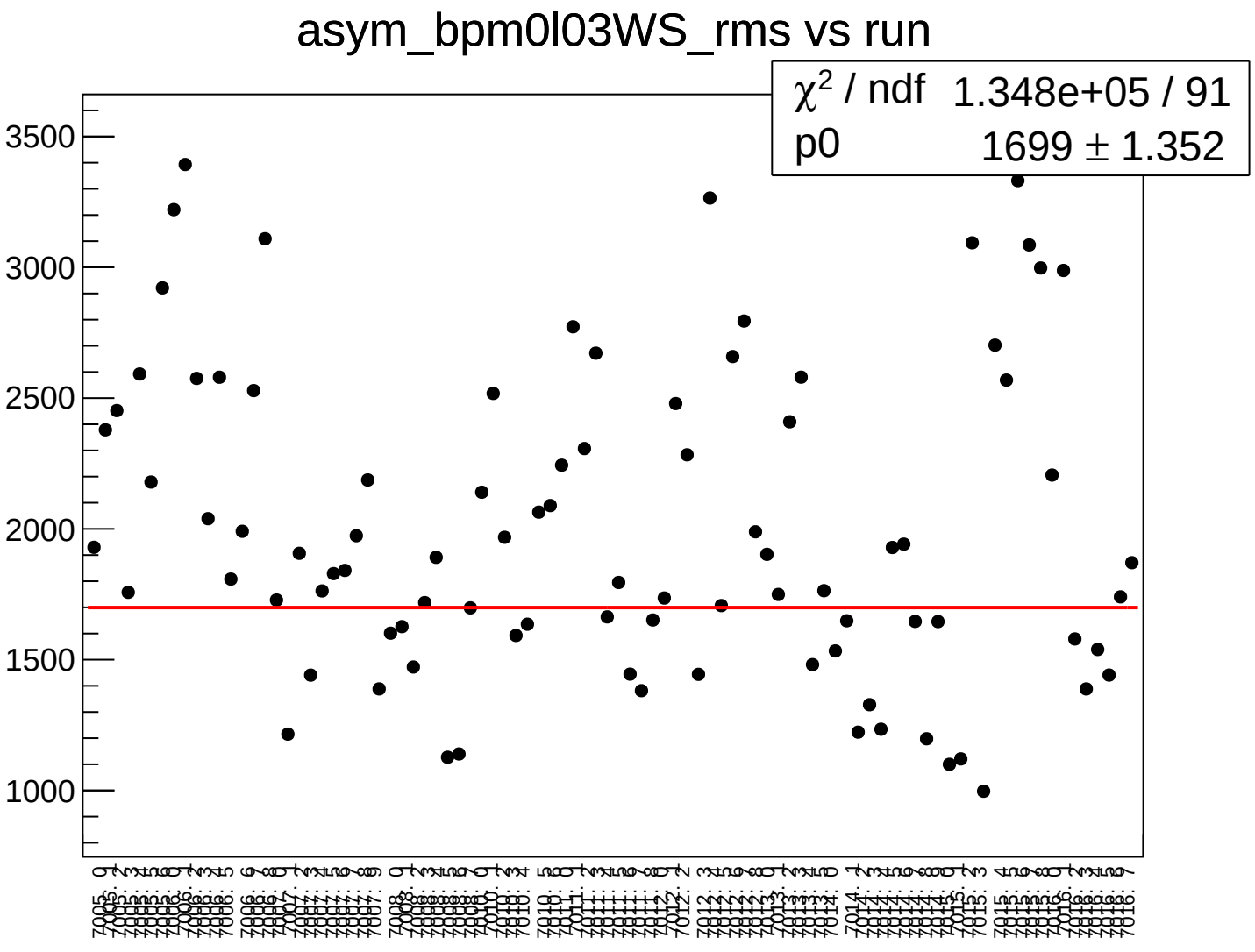

asym_bpm0l01WS_rms vs run
χ² / ndf 9.98e+04 / 91
p0 223.1 ± 0.1755
550
500
450
400
350
300
250
200
150

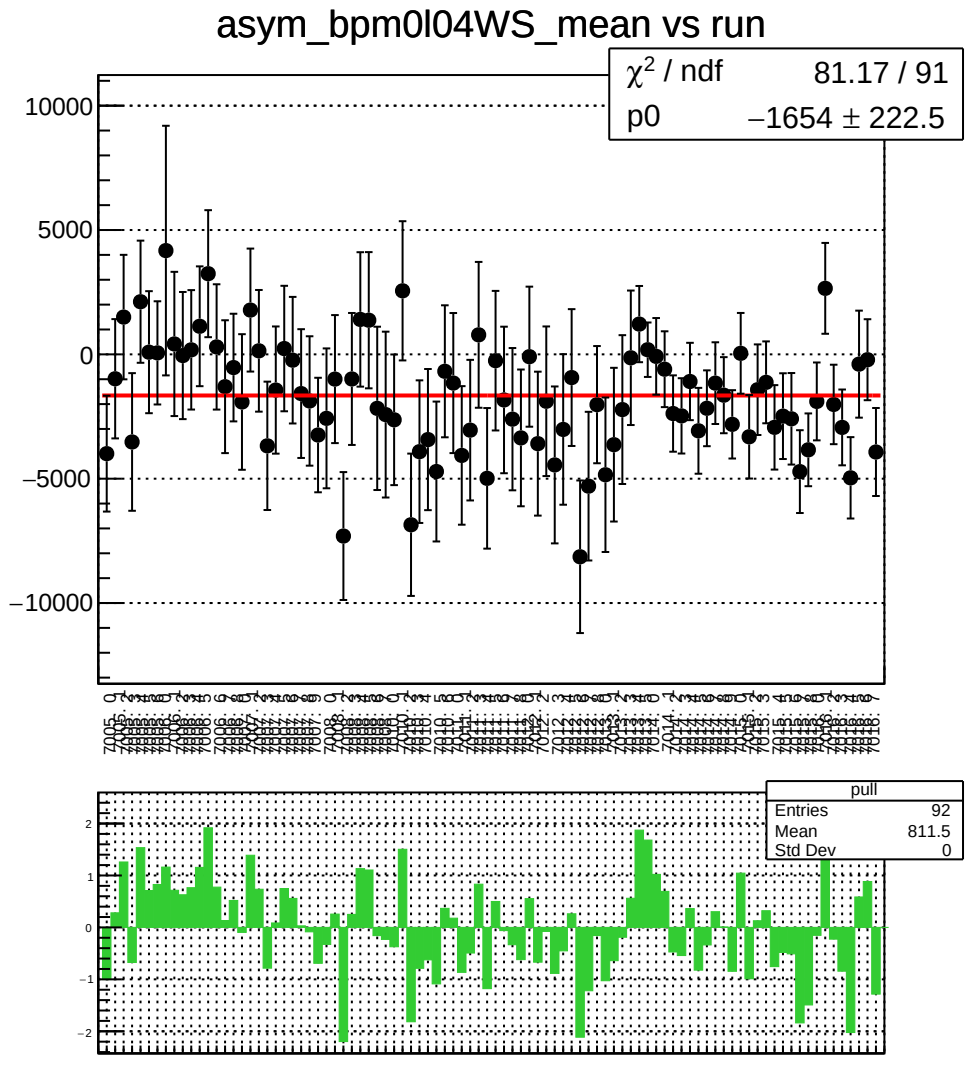

asym_bpm0l02WS_mean vs run
χ² / ndf 83.92 / 91
p0 −1322 ± 445.5
pull
Entries 92
Mean −5848
Std Dev 0
pull1D
Entries 92
Mean 0.0004117
Std Dev 0.9551

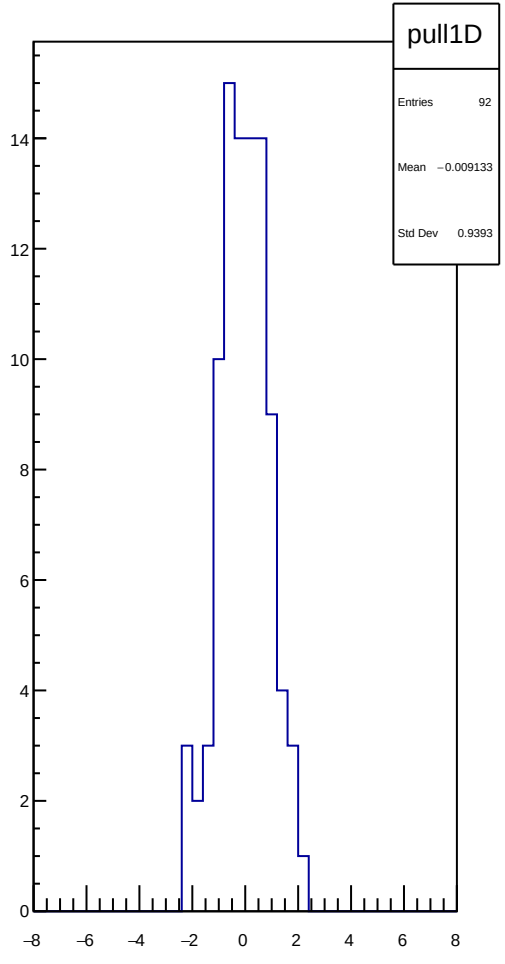

asym_bpm0l02WS_rms vs run
$\chi^2$ / ndf 3.606e+04 / 91
p0 408.2 ± 0.315
650
600
550
500
450
400
350
300

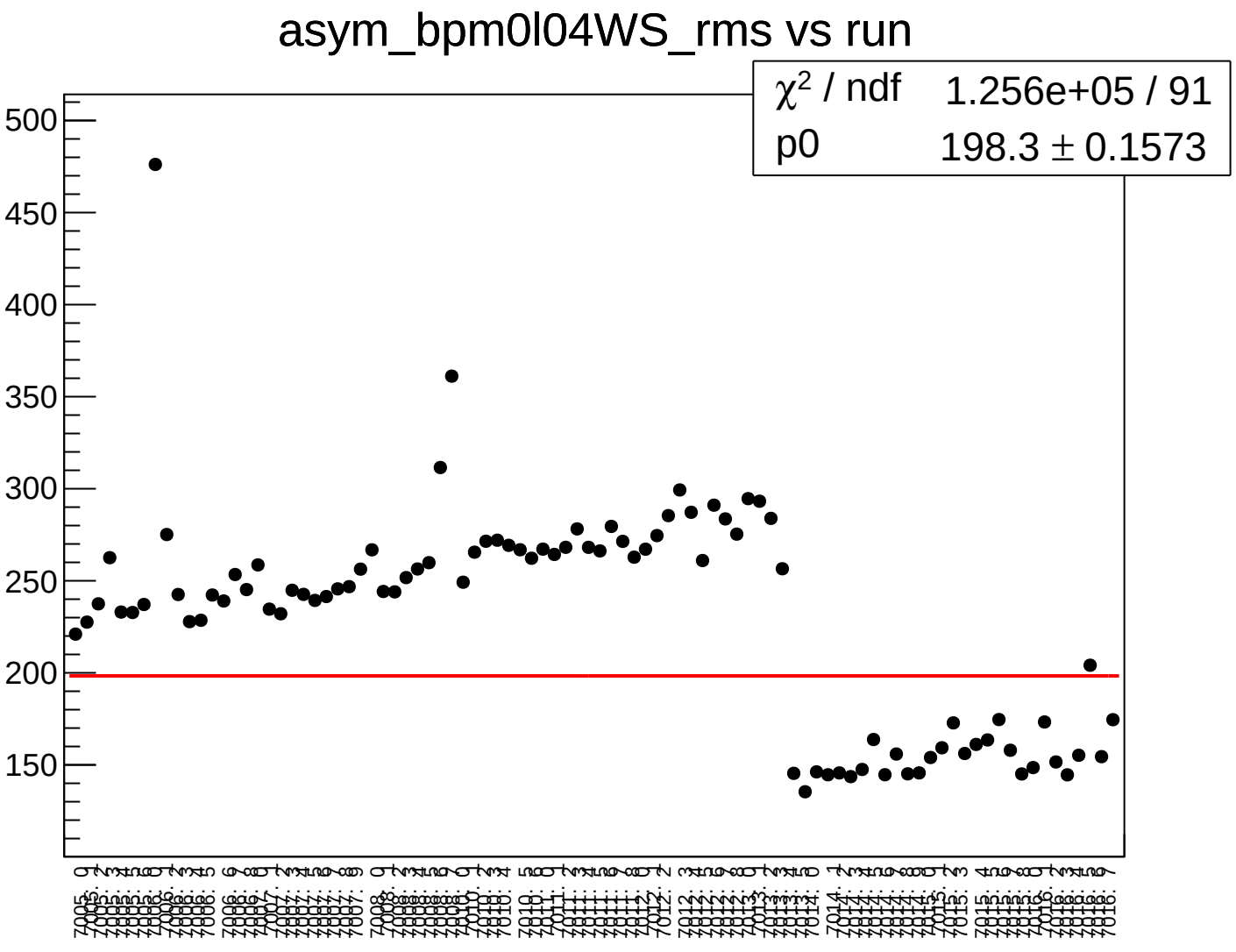

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 81.43 / 91
p0 −392.7 ± 1911
100
50
0
−50
−100
pull
Entries 92
Mean −106.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

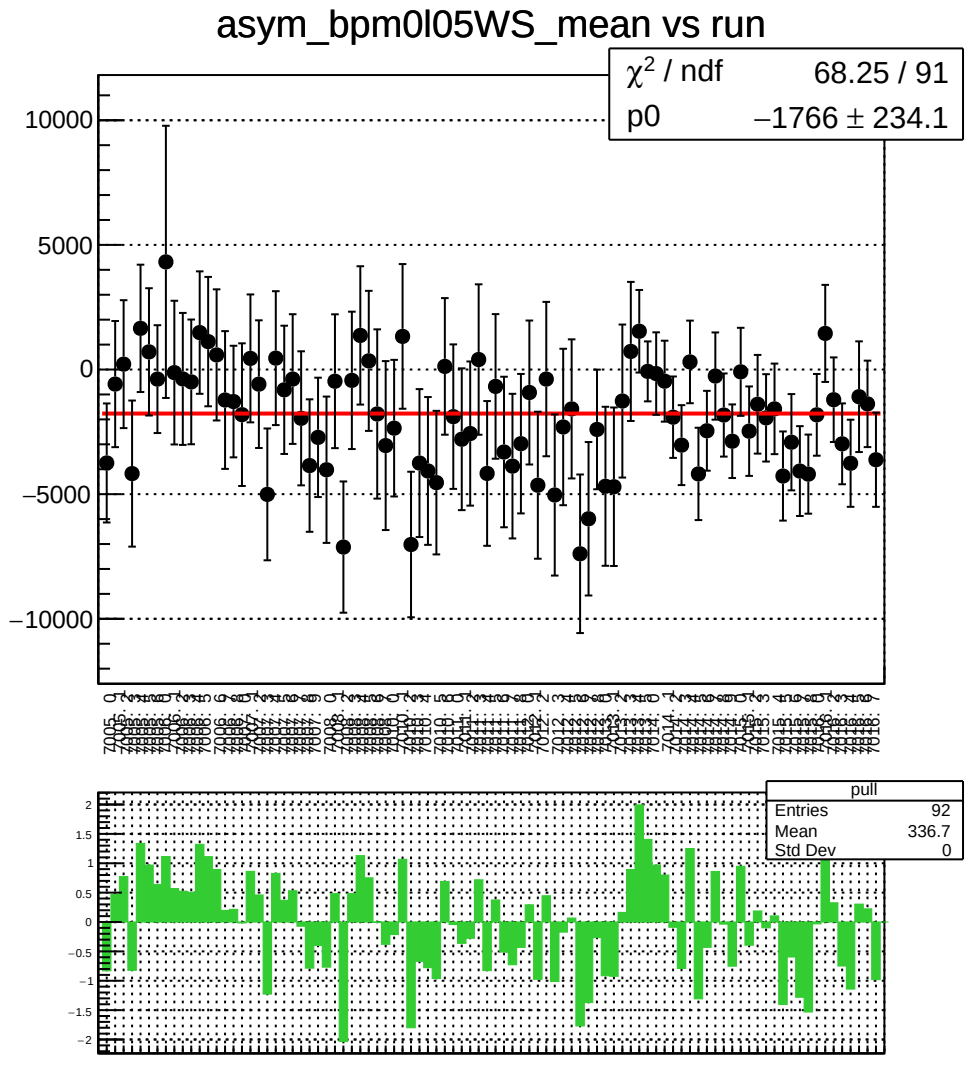

pull1D
Entries 92
Mean −0.01639
Std Dev 0.9407
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

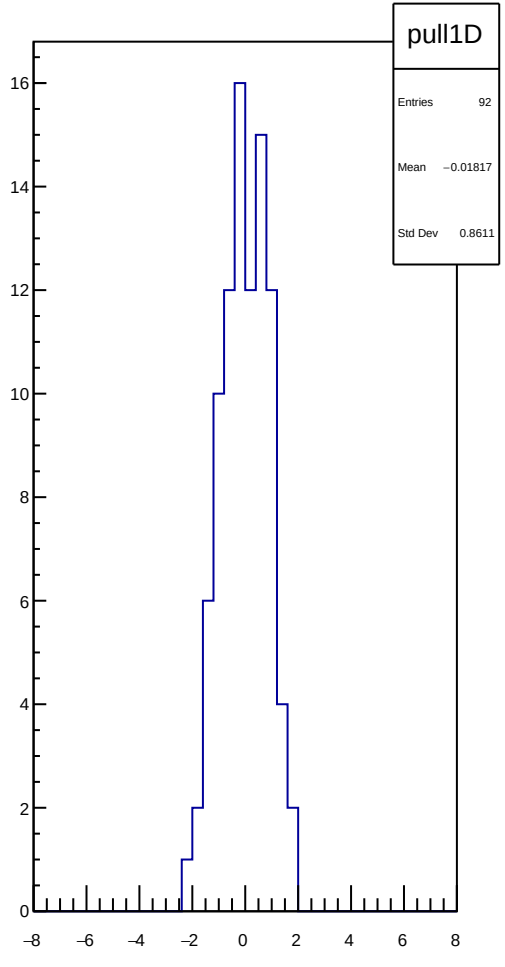

asym_bpm0l03WS_rms vs run
$\chi^2$ / ndf 1.348e+05 / 91
p0 1699 ± 1.352
3500
3000
2500
2000
1500
1000

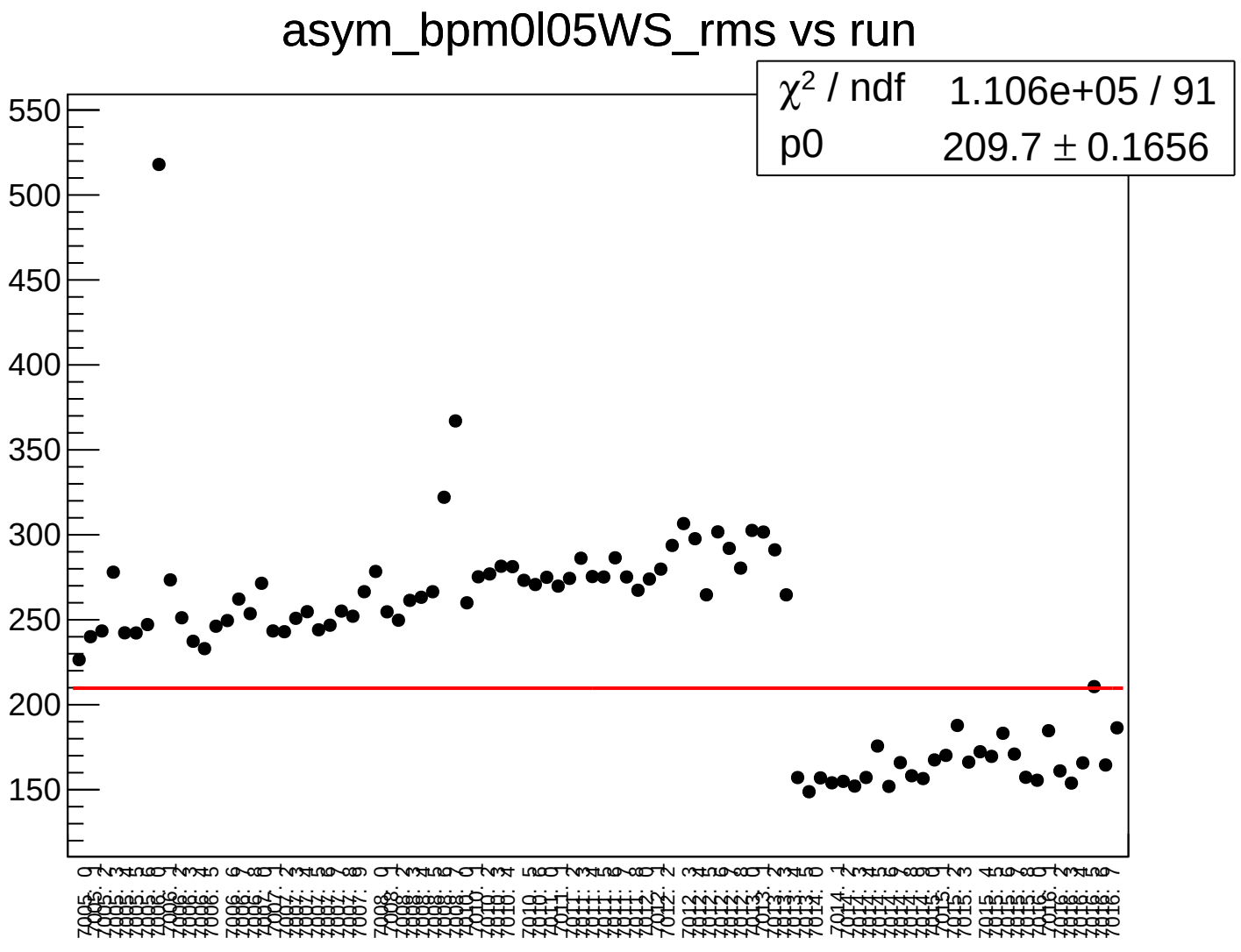

asym_bpm0l04WS_mean vs run
χ² / ndf 81.17 / 91
p0 −1654 ± 222.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 811.5
Std Dev 0
2
1
0
−1
−2

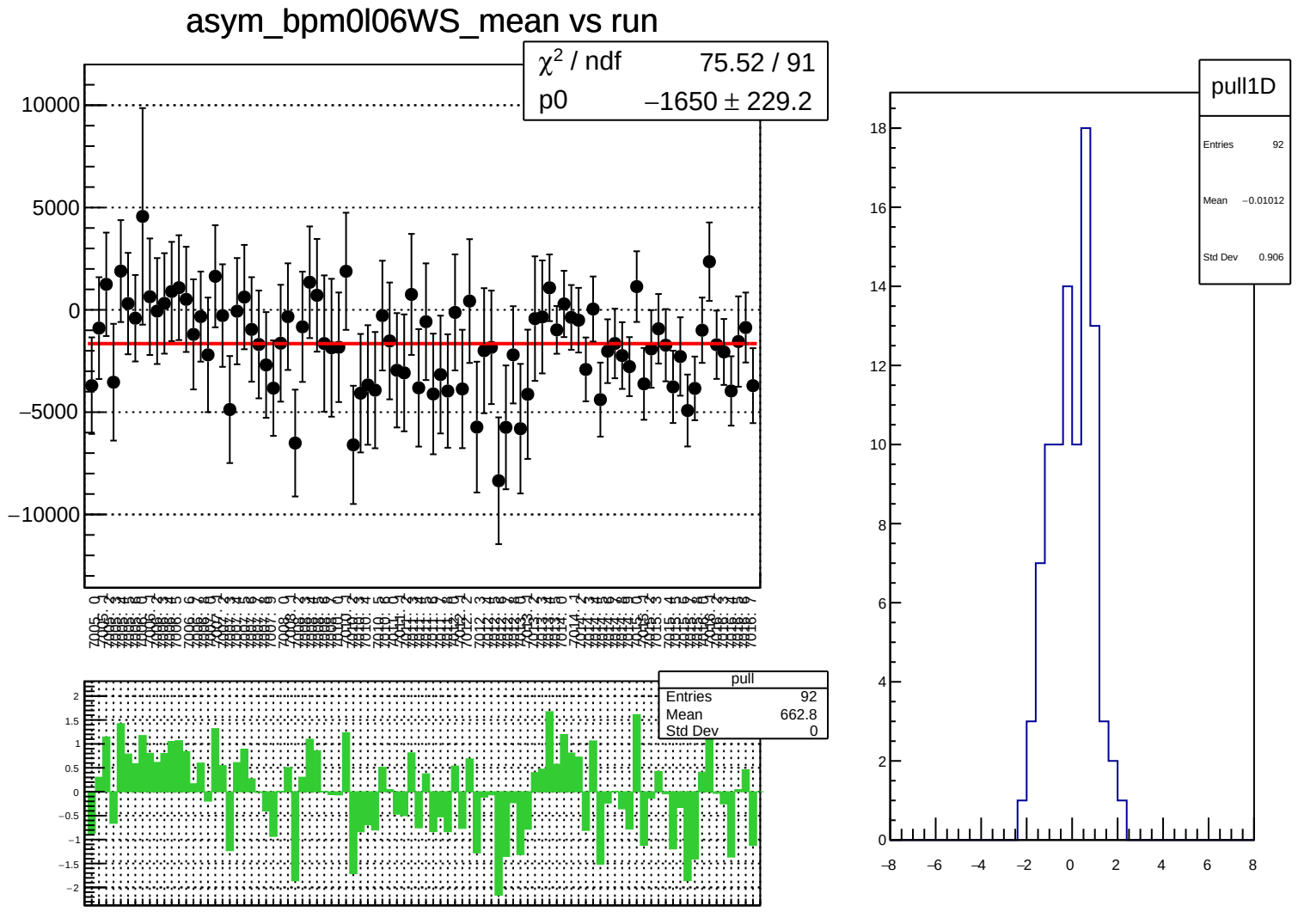

pull1D
Entries 92
Mean −0.009133
Std Dev 0.9393
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

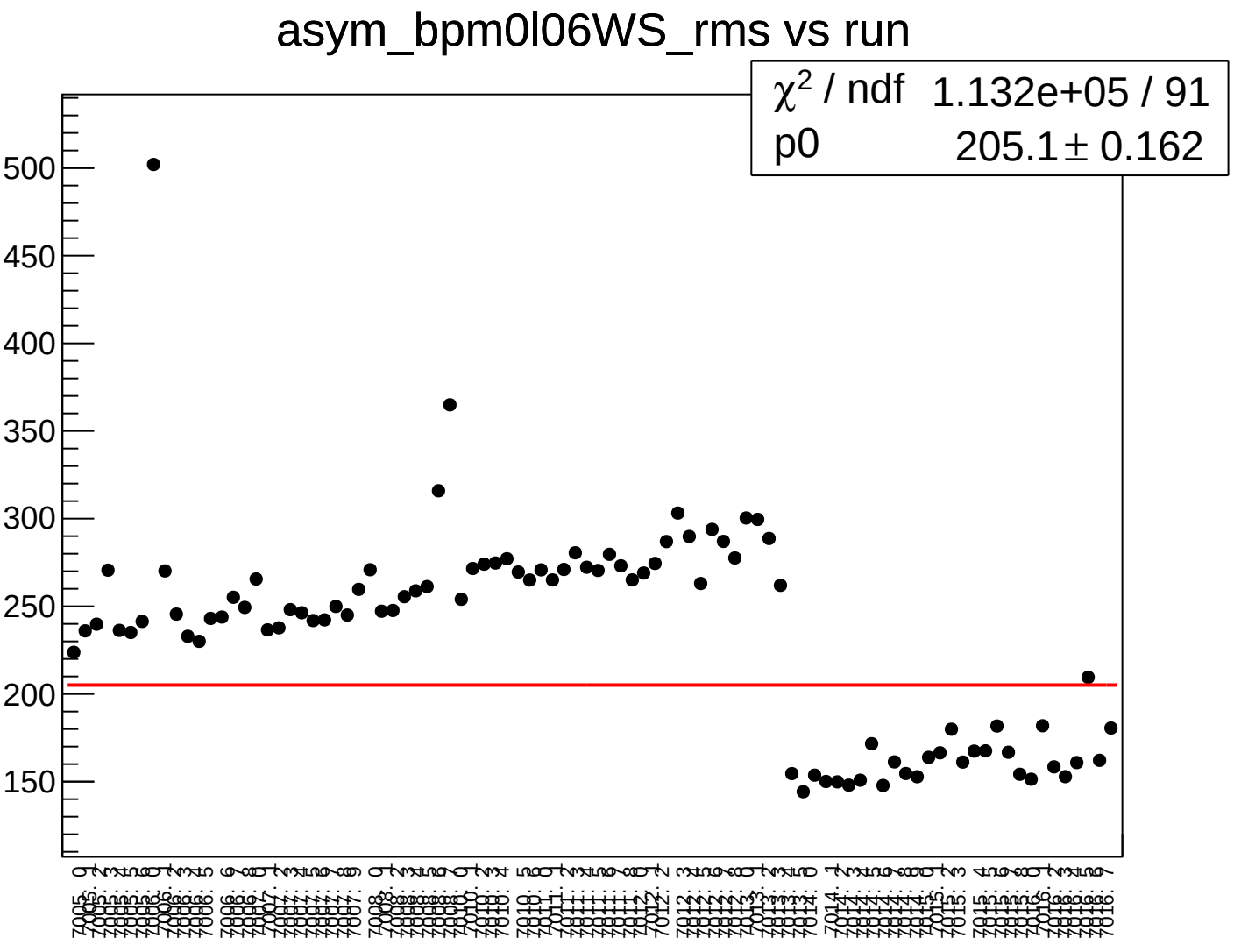

asym_bpm0l04WS_rms vs run
χ² / ndf 1.256e+05 / 91
p0 198.3 ± 0.1573
500
450
400
350
300
250
200
150

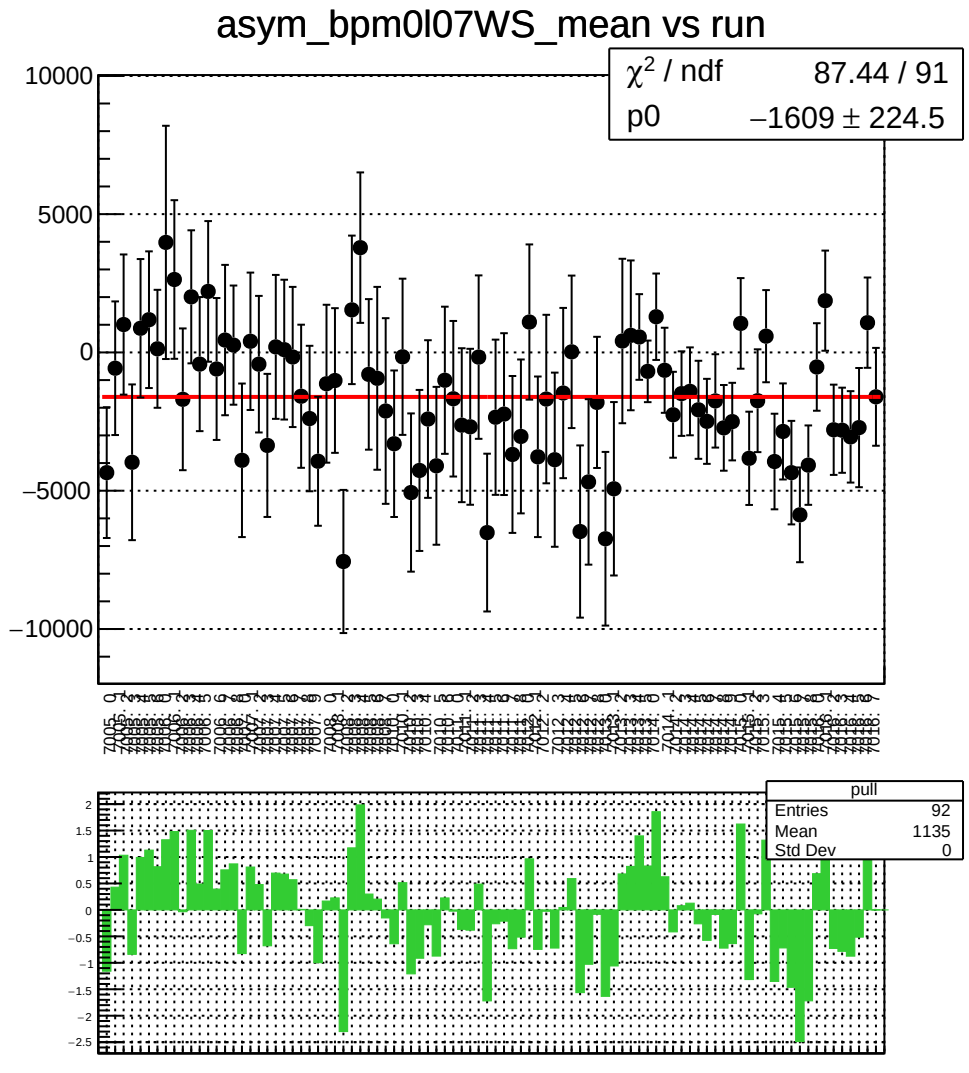

asym_bpm0l05WS_mean vs run
χ² / ndf 68.25 / 91
p0 −1766 ± 234.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 336.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

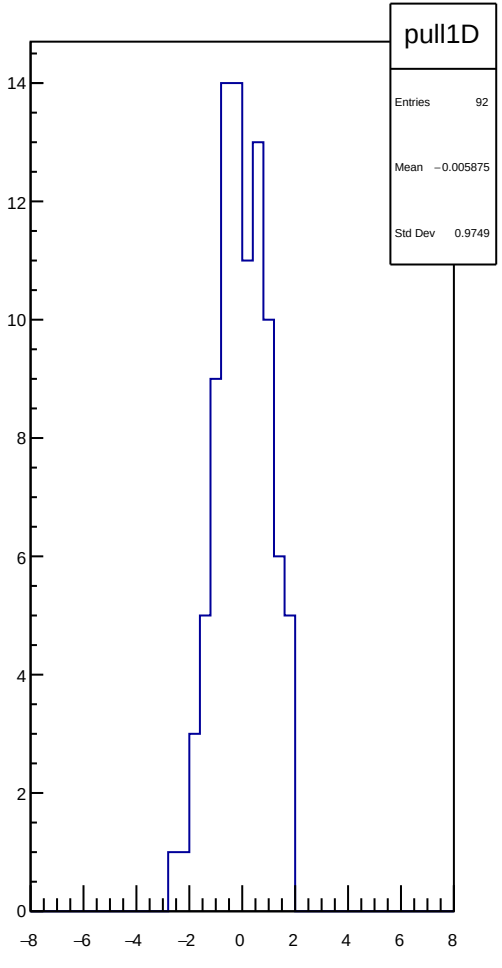

pull1D
Entries 92
Mean −0.01817
Std Dev 0.8611
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

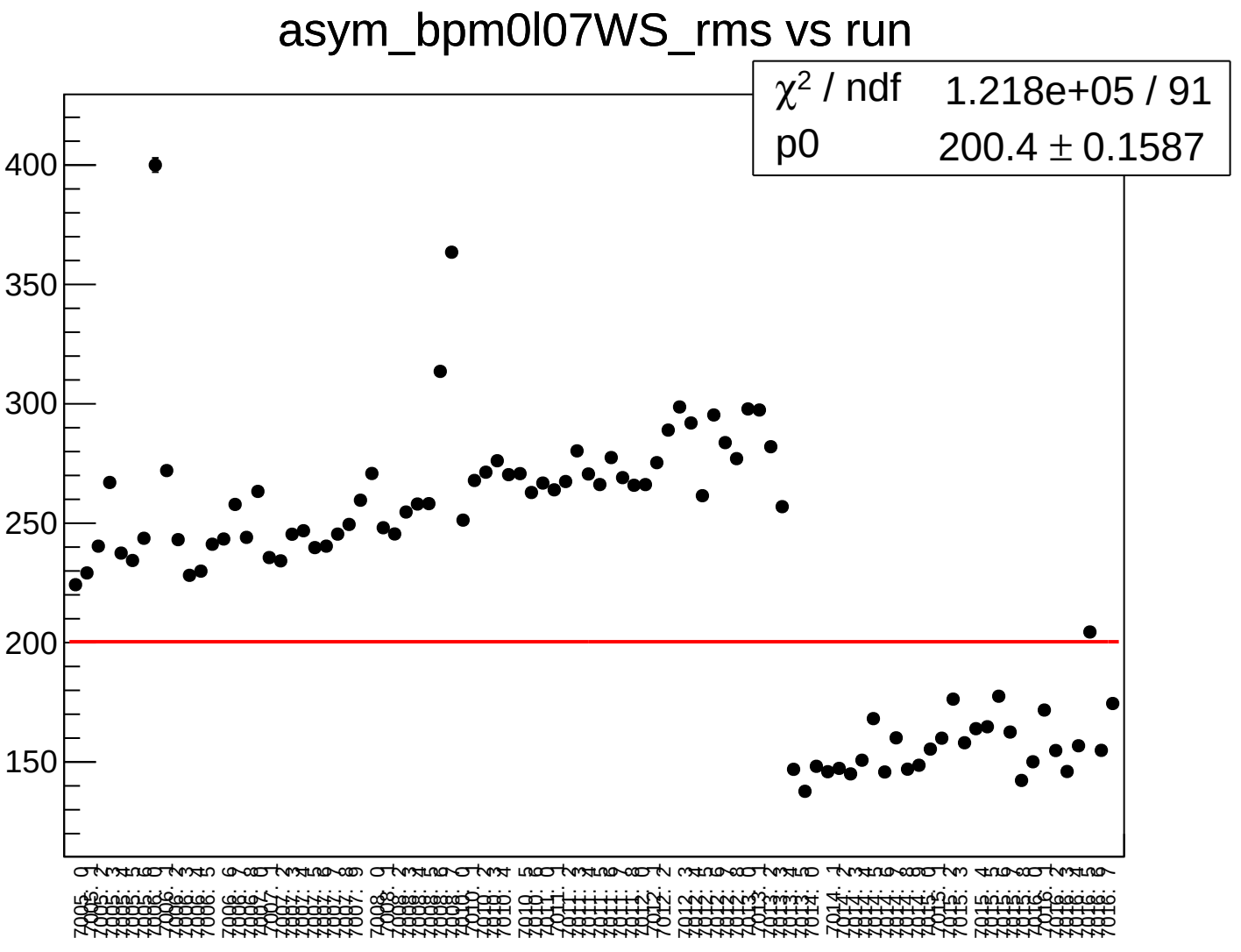

asym_bpm0l05WS_rms vs run
χ² / ndf 1.106e+05 / 91
p0 209.7 ± 0.1656
550
500
450
400
350
300
250
200
150

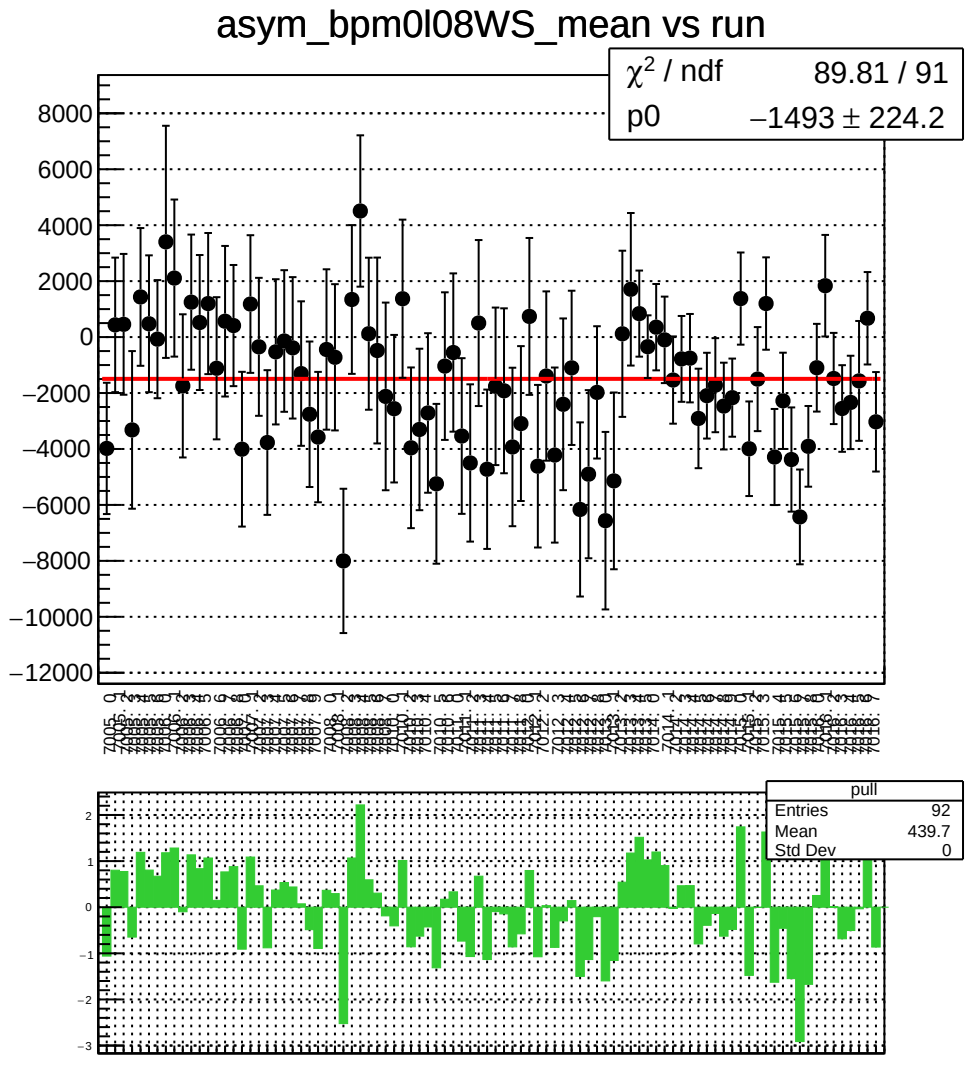

asym_bpm0l06WS_mean vs run
χ² / ndf 75.52 / 91
p0 −1650 ± 229.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 662.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.01012
Std Dev 0.906
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

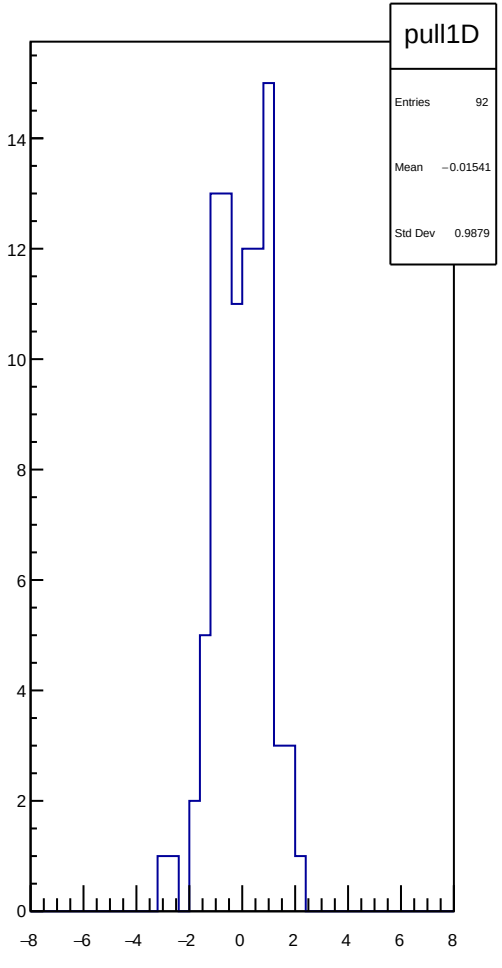

asym_bpm0l06WS_rms vs run
$\chi^2$ / ndf 1.132e+05 / 91
p0 205.1 ± 0.162
500
450
400
350
300
250
200
150

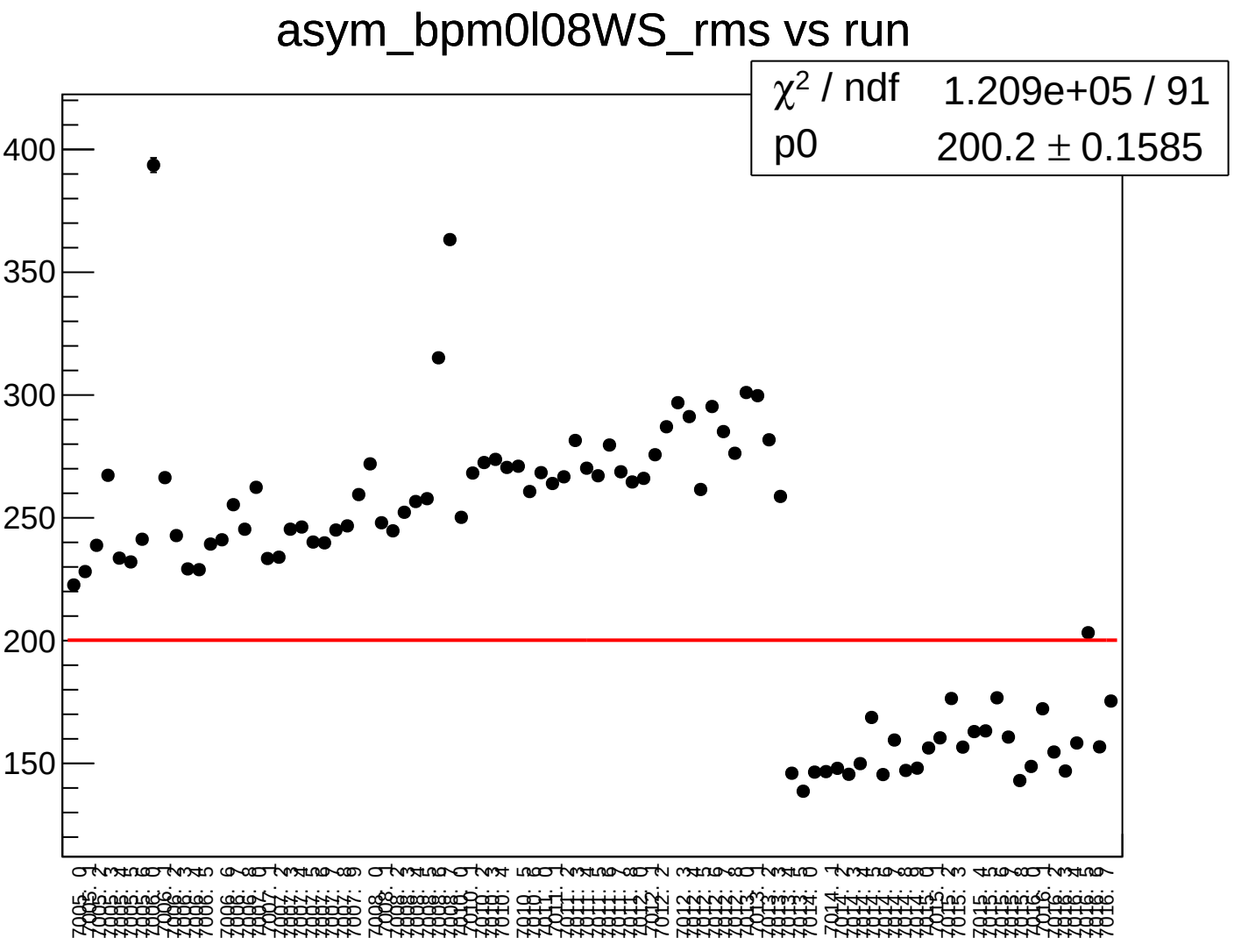

asym_bpm0l07WS_mean vs run
χ² / ndf 87.44 / 91
p0 −1609 ± 224.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 1135
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

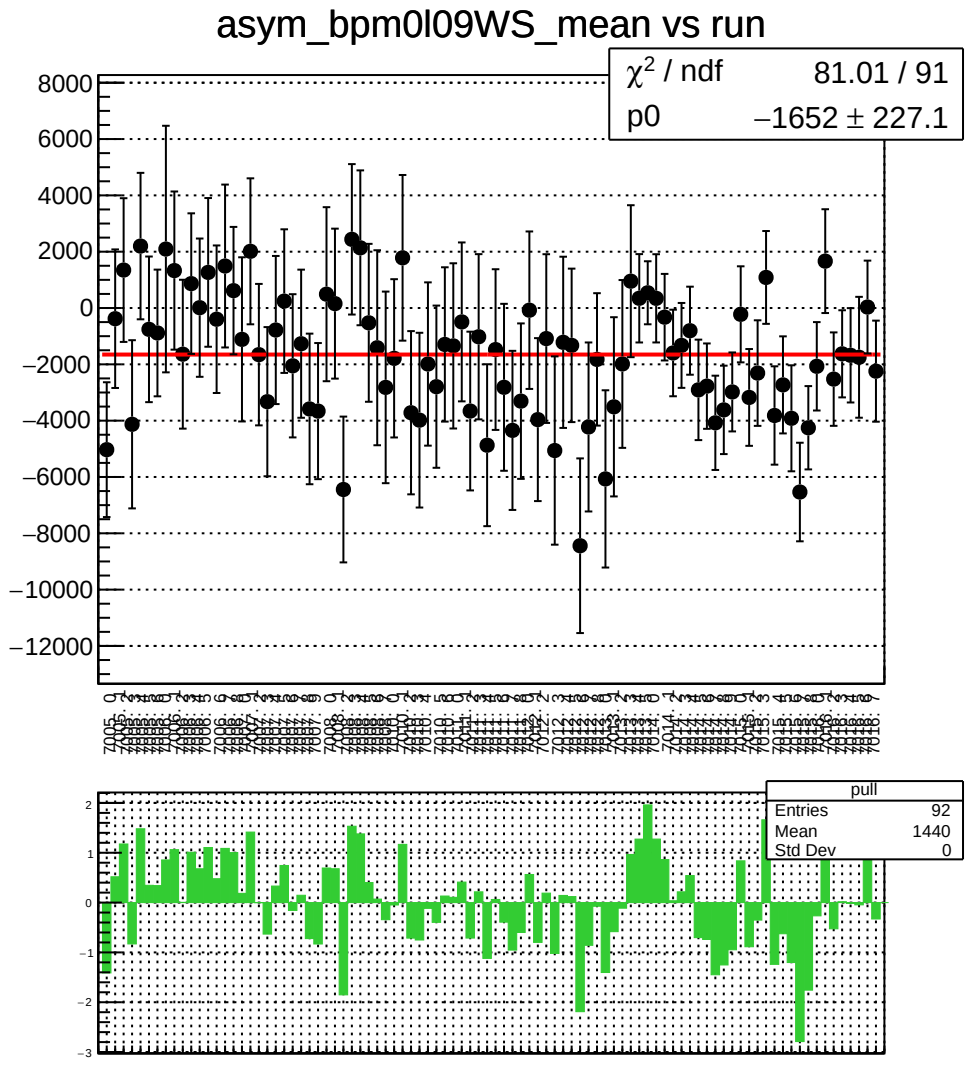

pull1D
Entries 92
Mean −0.005875
Std Dev 0.9749
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

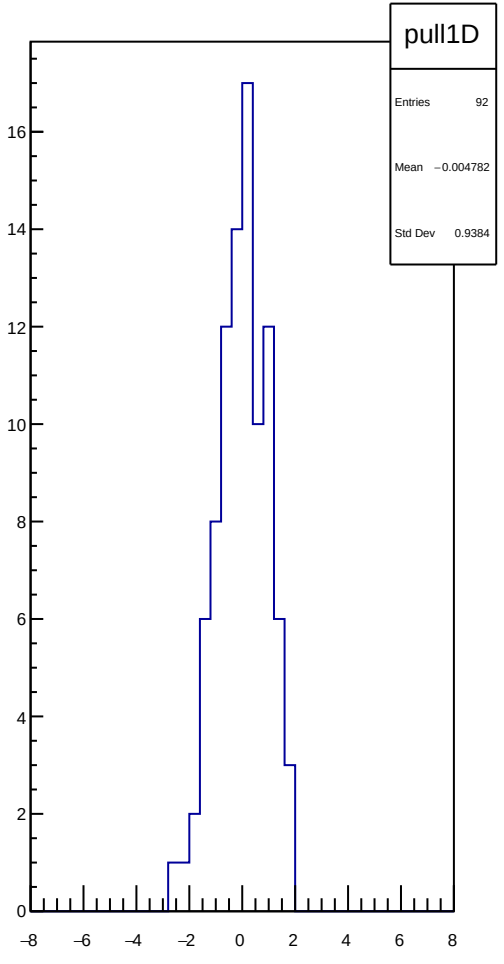

asym_bpm0l07WS_rms vs run
χ² / ndf 1.218e+05 / 91
p0 200.4 ± 0.1587
400
350
300
250
200
150

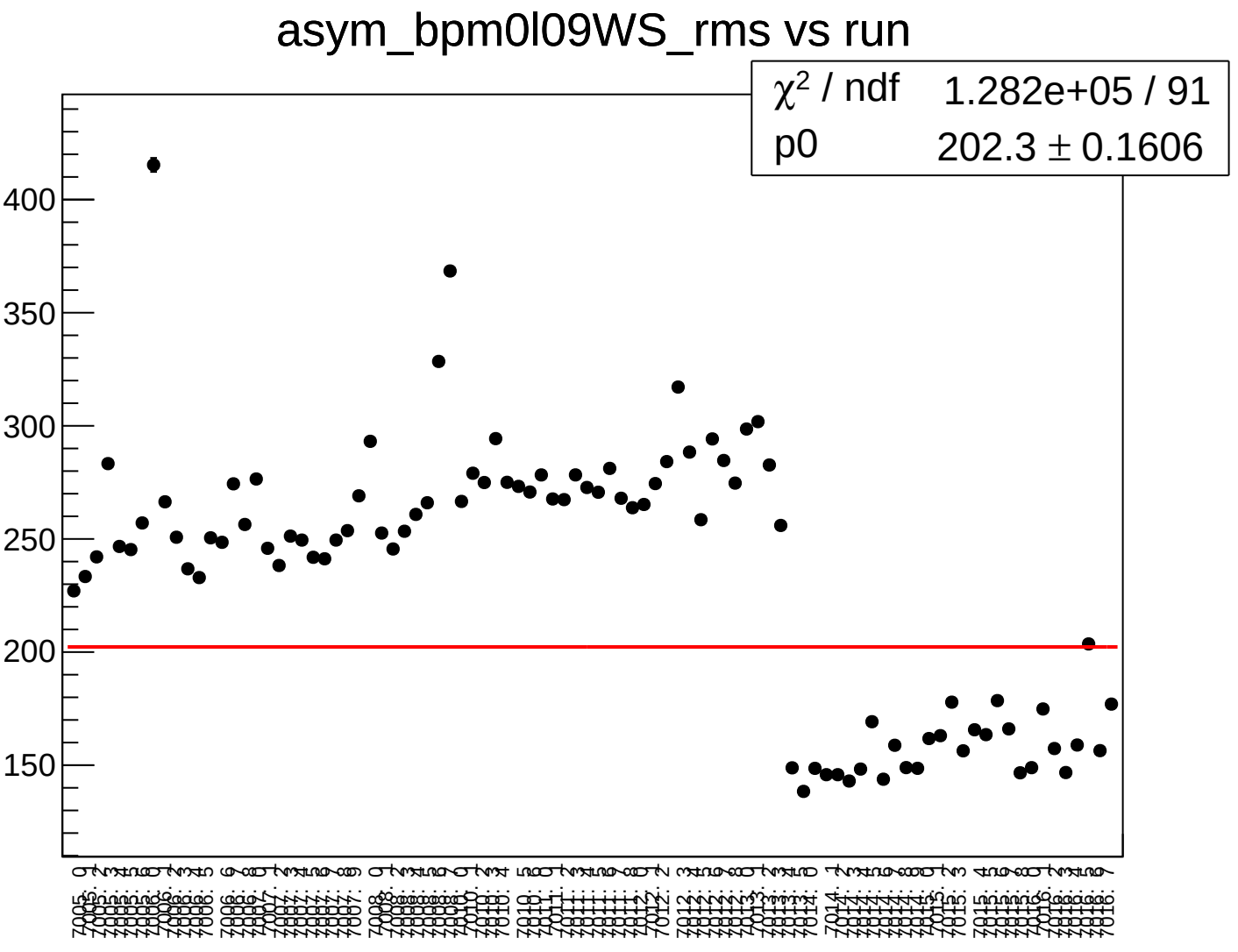

asym_bpm0l08WS_mean vs run
$\chi^2$ / ndf 89.81 / 91
p0 −1493 ± 224.2
pull
Entries 92
Mean 439.7
Std Dev 0

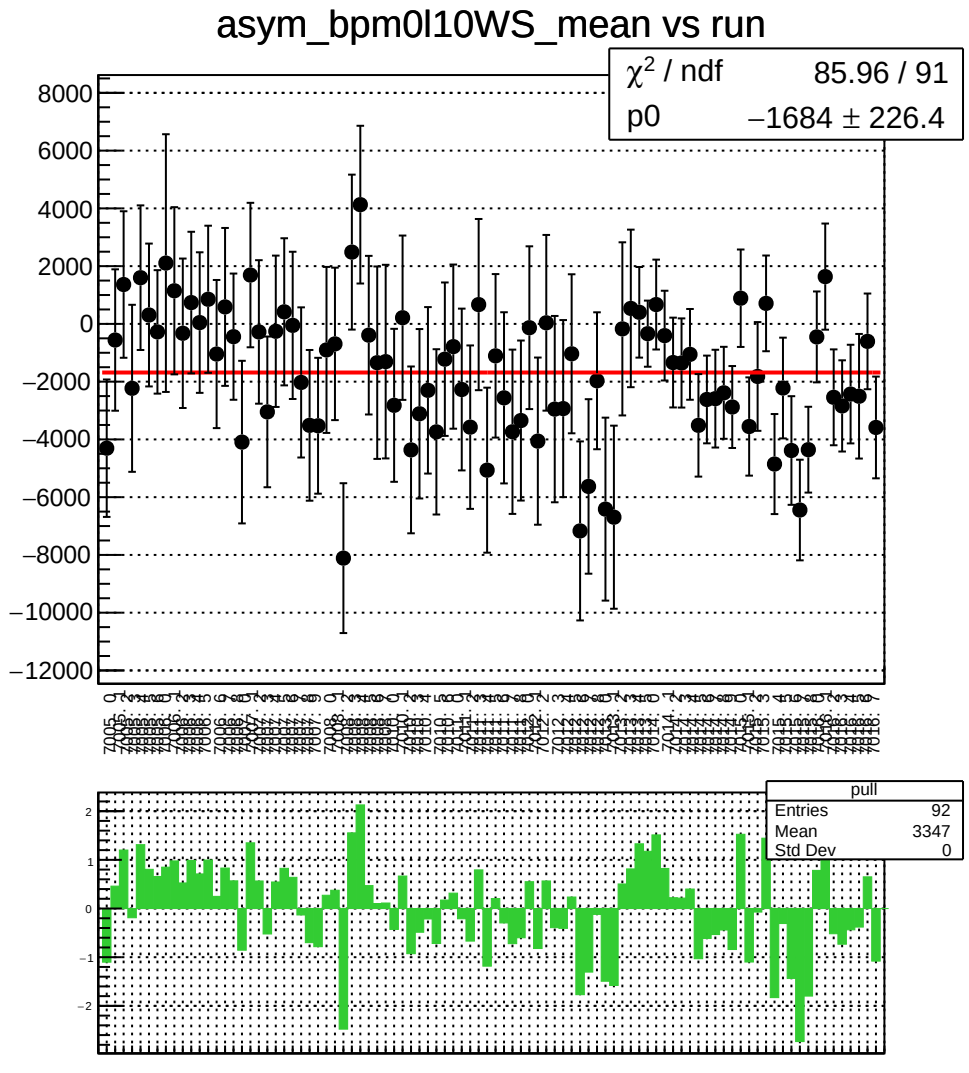

pull1D
Entries 92
Mean −0.01541
Std Dev 0.9879

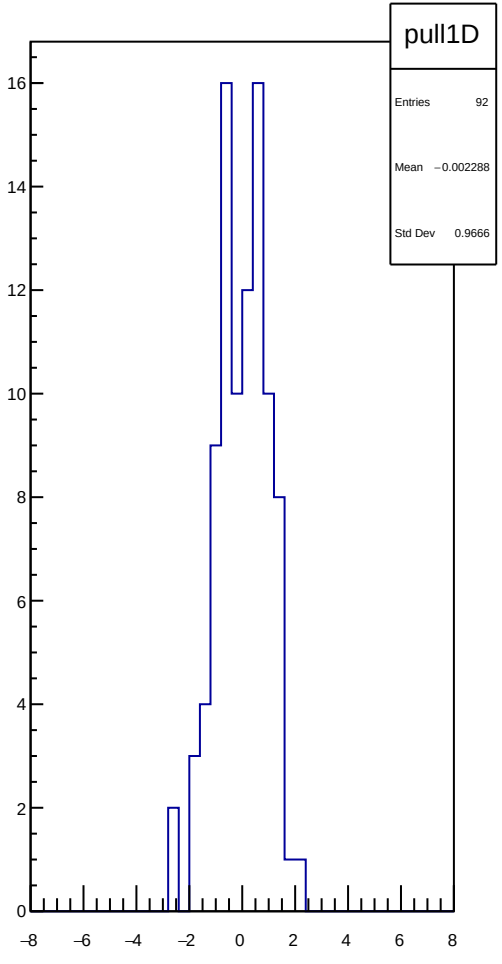

asym_bpm0l08WS_rms vs run
χ² / ndf 1.209e+05 / 91
p0 200.2 ± 0.1585
400
350
300
250
200
150

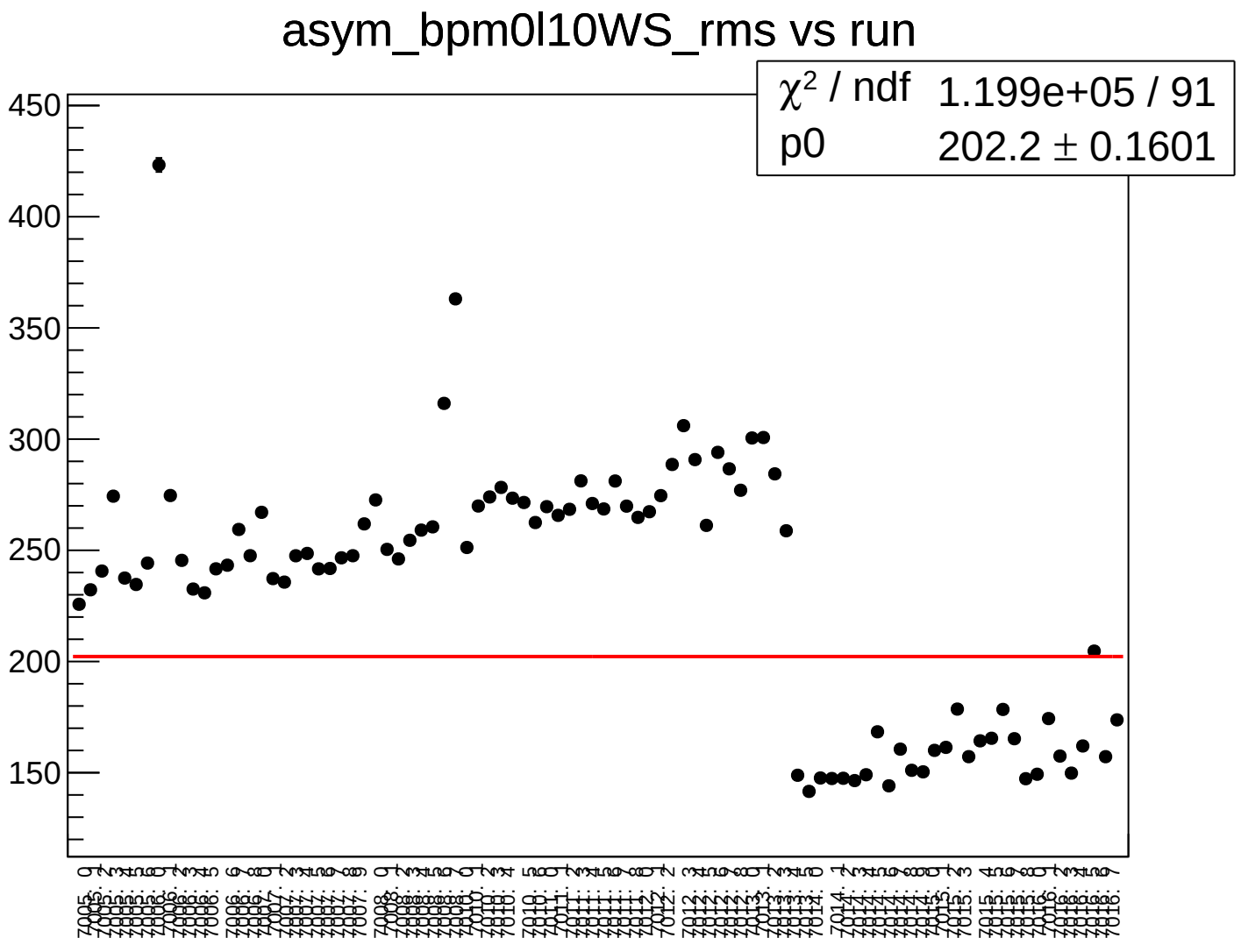

asym_bpm0l09WS_mean vs run
χ² / ndf 81.01 / 91
p0 −1652 ± 227.1
pull
Entries 92
Mean 1440
Std Dev 0

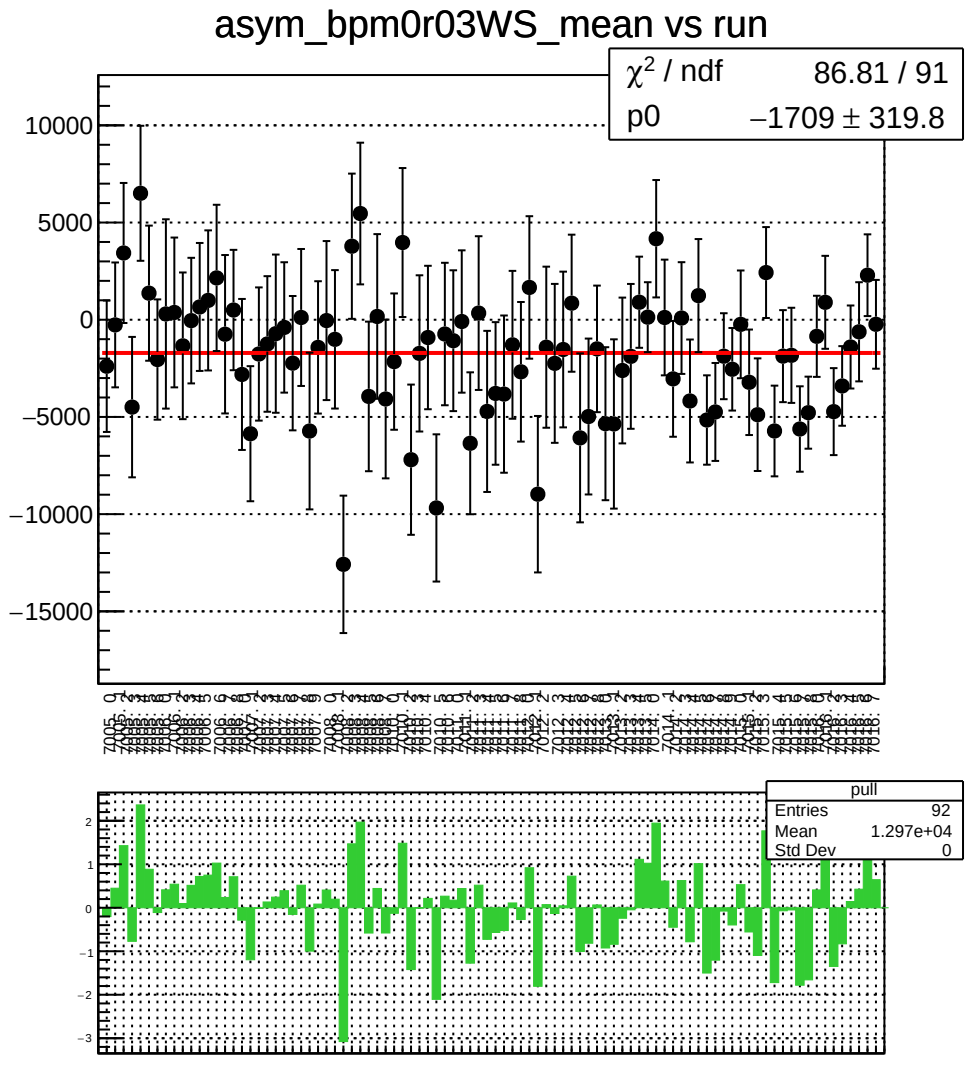

pull1D
Entries 92
Mean −0.004782
Std Dev 0.9384

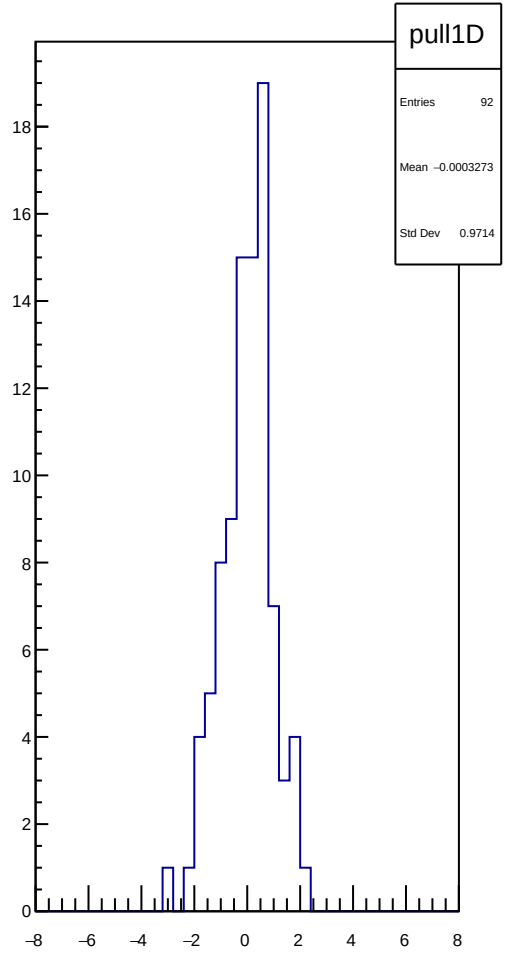

asym_bpm0l09WS_rms vs run
χ² / ndf 1.282e+05 / 91
p0 202.3 ± 0.1606
400
350
300
250
200
150

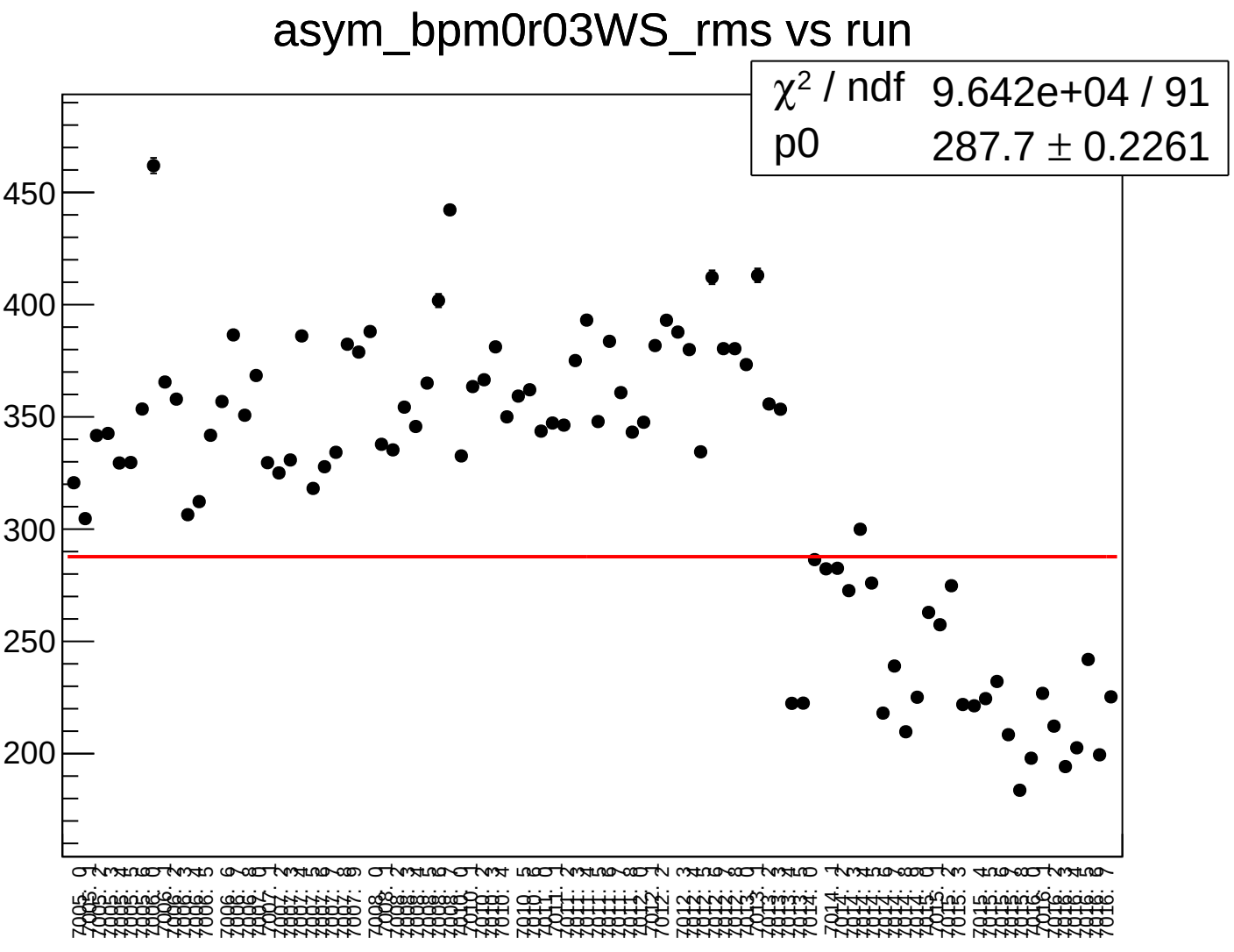

asym_bpm0l10WS_mean vs run
χ² / ndf 85.96 / 91
p0 −1684 ± 226.4
pull
Entries 92
Mean 3347
Std Dev 0

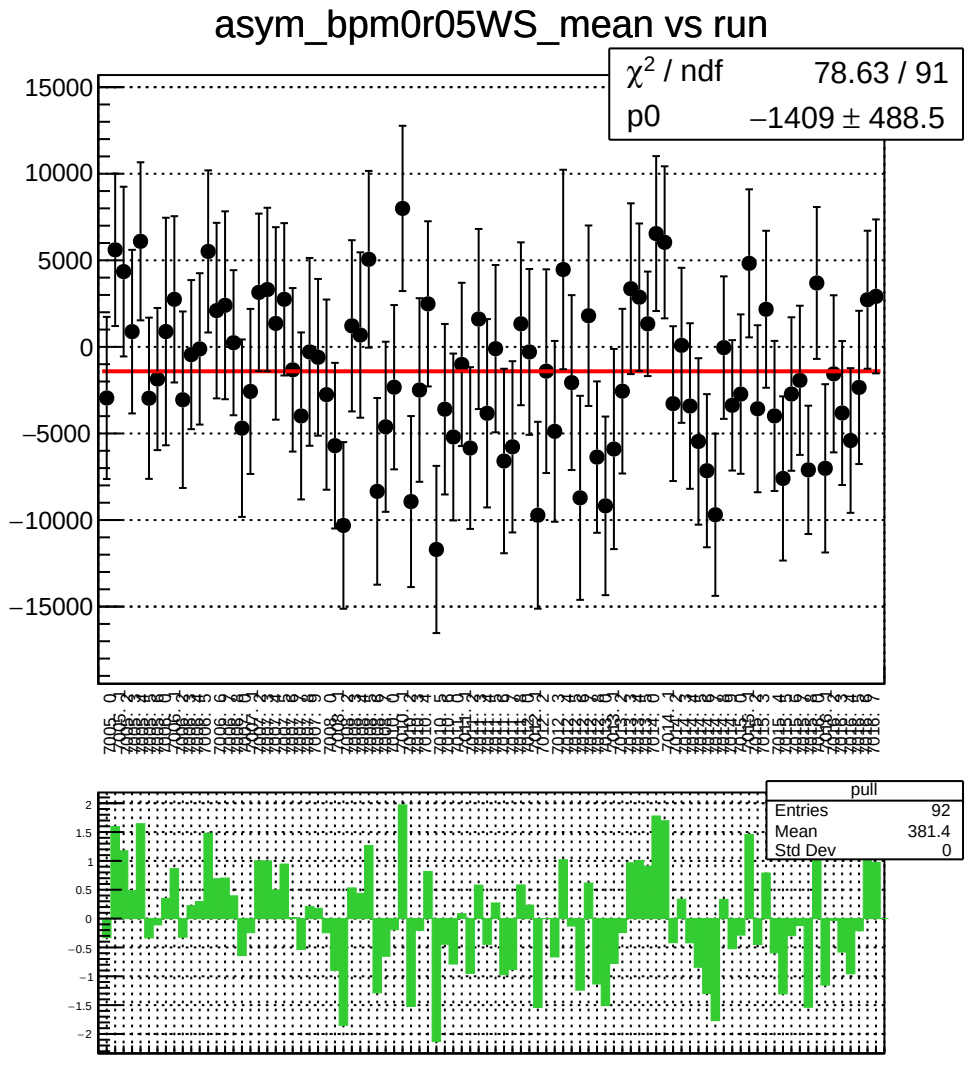

pull1D
Entries 92
Mean −0.002288
Std Dev 0.9666

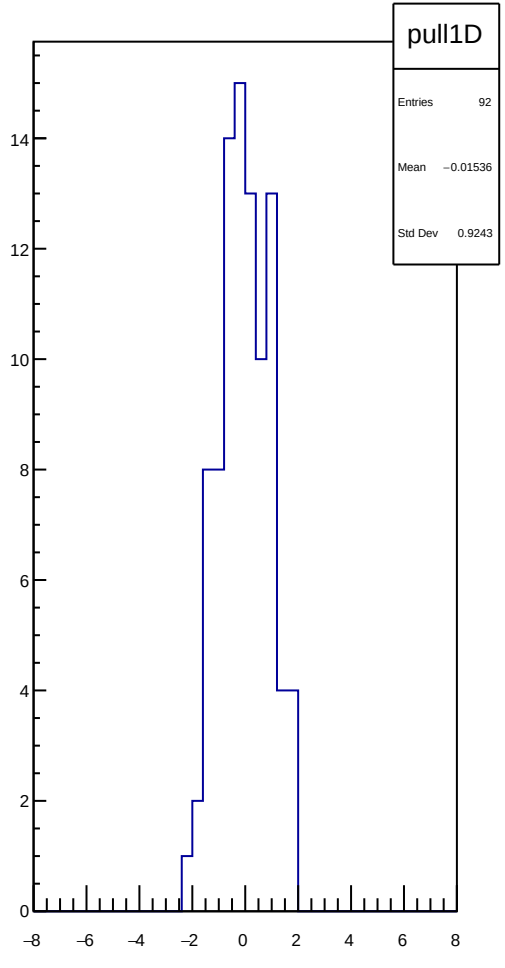

asym_bpm0l10WS_rms vs run
χ² / ndf 1.199e+05 / 91
p0 202.2 ± 0.1601
450
400
350
300
250
200
150

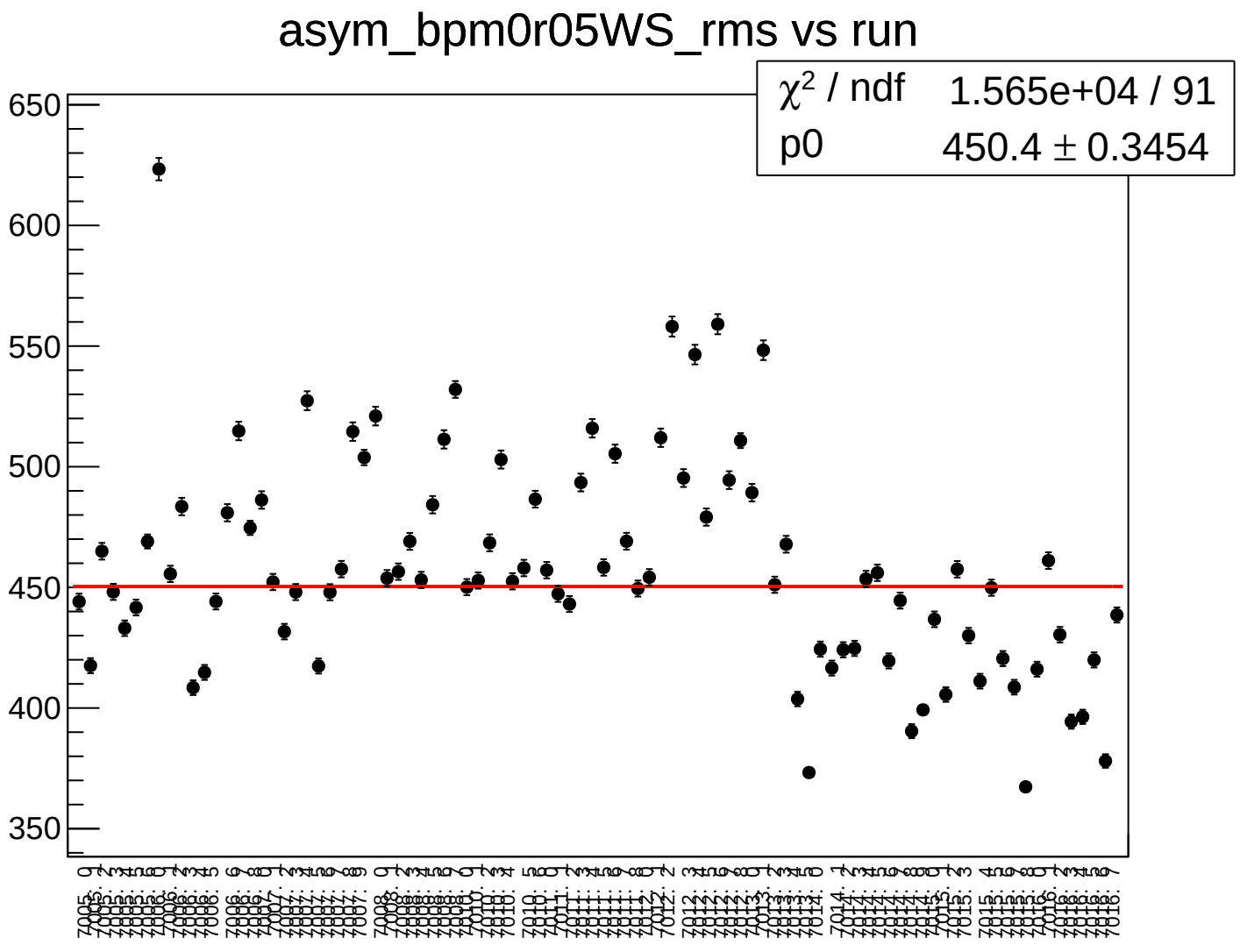

asym_bpm0r03WS_mean vs run
χ² / ndf 86.81 / 91
p0 −1709 ± 319.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1.297e+04
Std Dev 0
2
1
0
−1
−2
−3

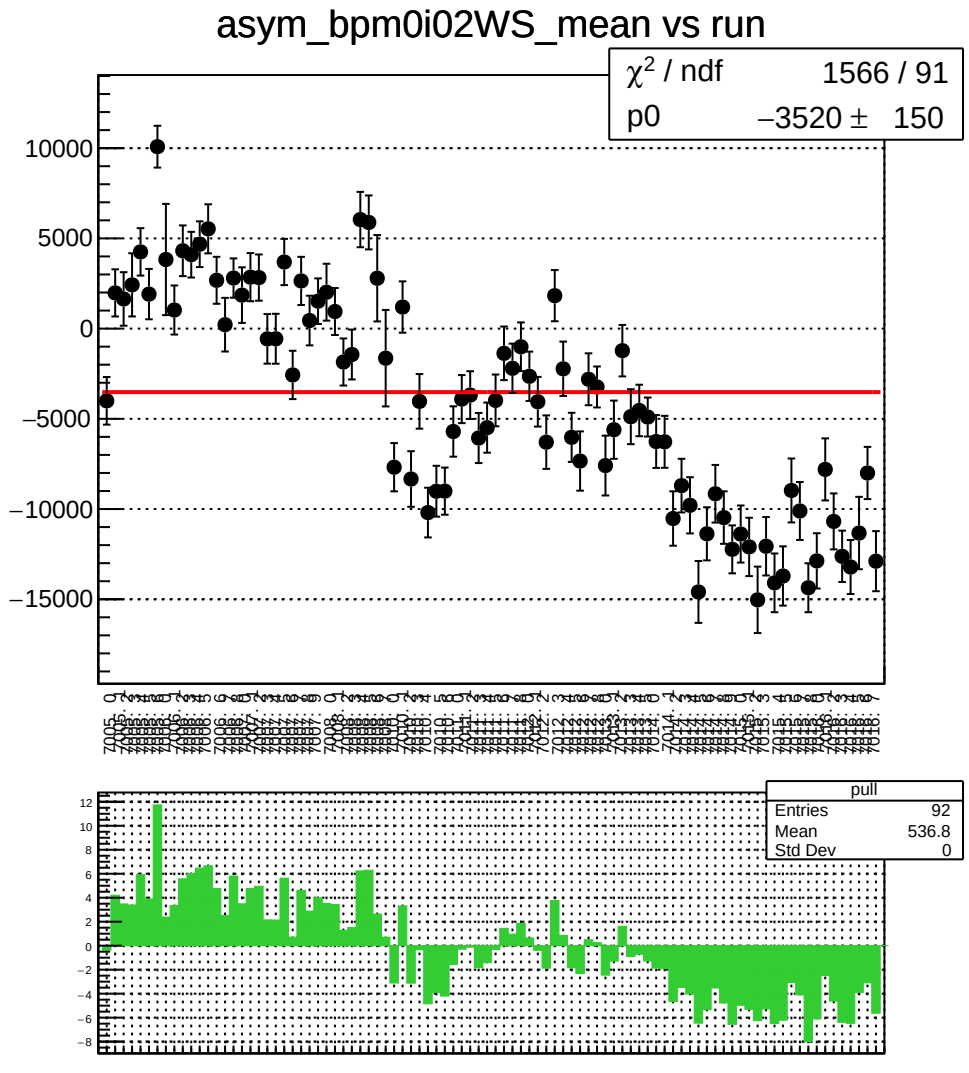

pull1D
Entries 92
Mean −0.0003273
Std Dev 0.9714
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

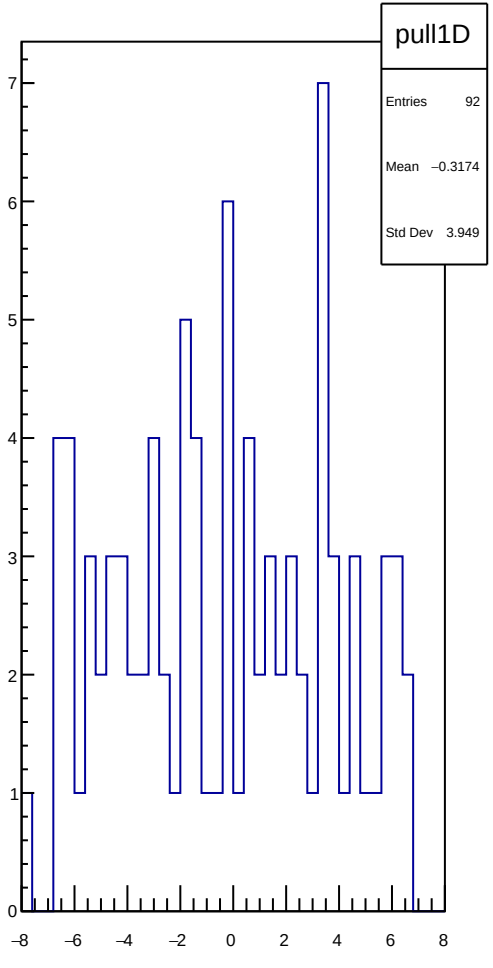

asym_bpm0r03WS_rms vs run
χ² / ndf 9.642e+04 / 91
p0 287.7 ± 0.2261
450
400
350
300
250
200

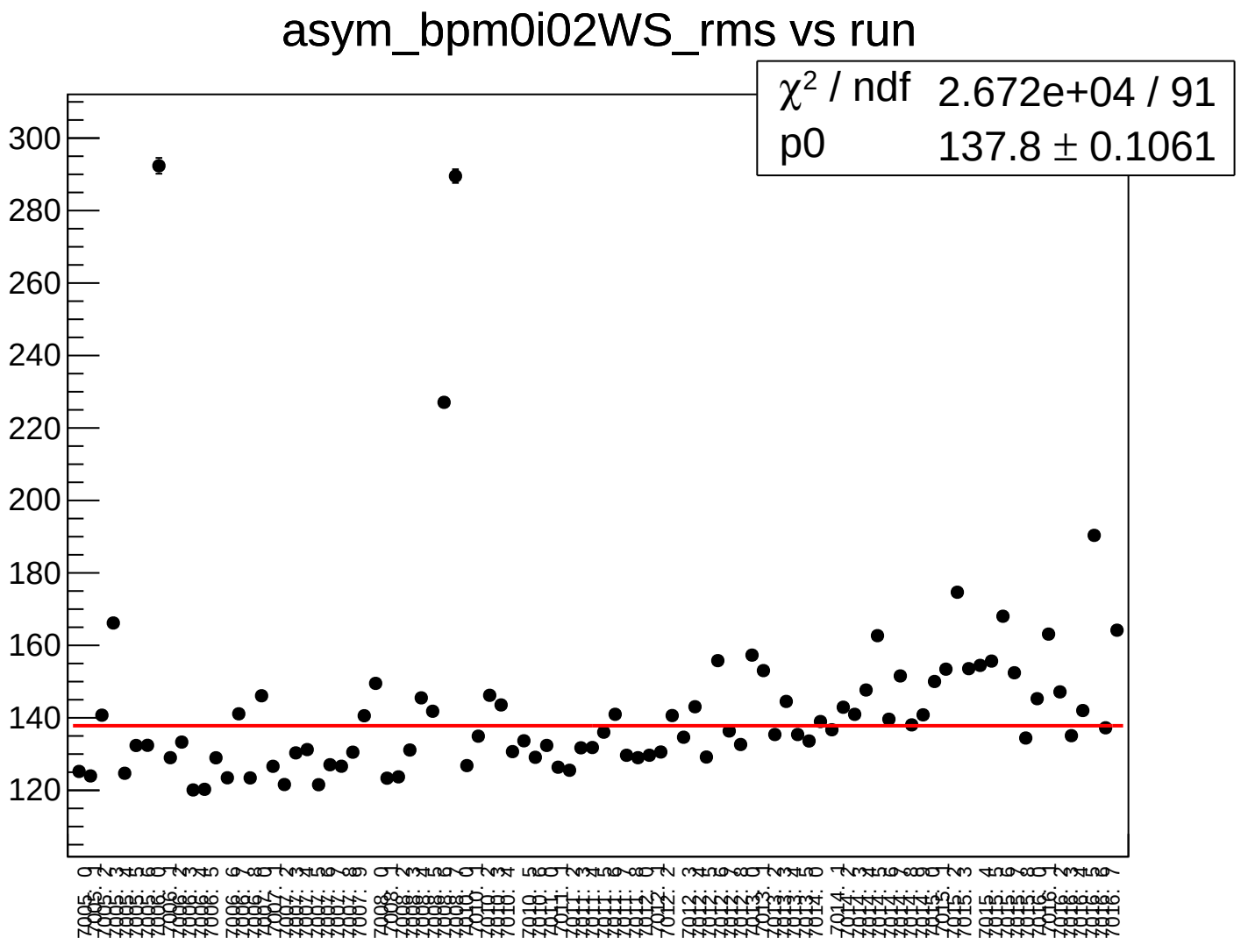

asym_bpm0r05WS_mean vs run
χ² / ndf 78.63 / 91
p0 −1409 ± 488.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 381.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

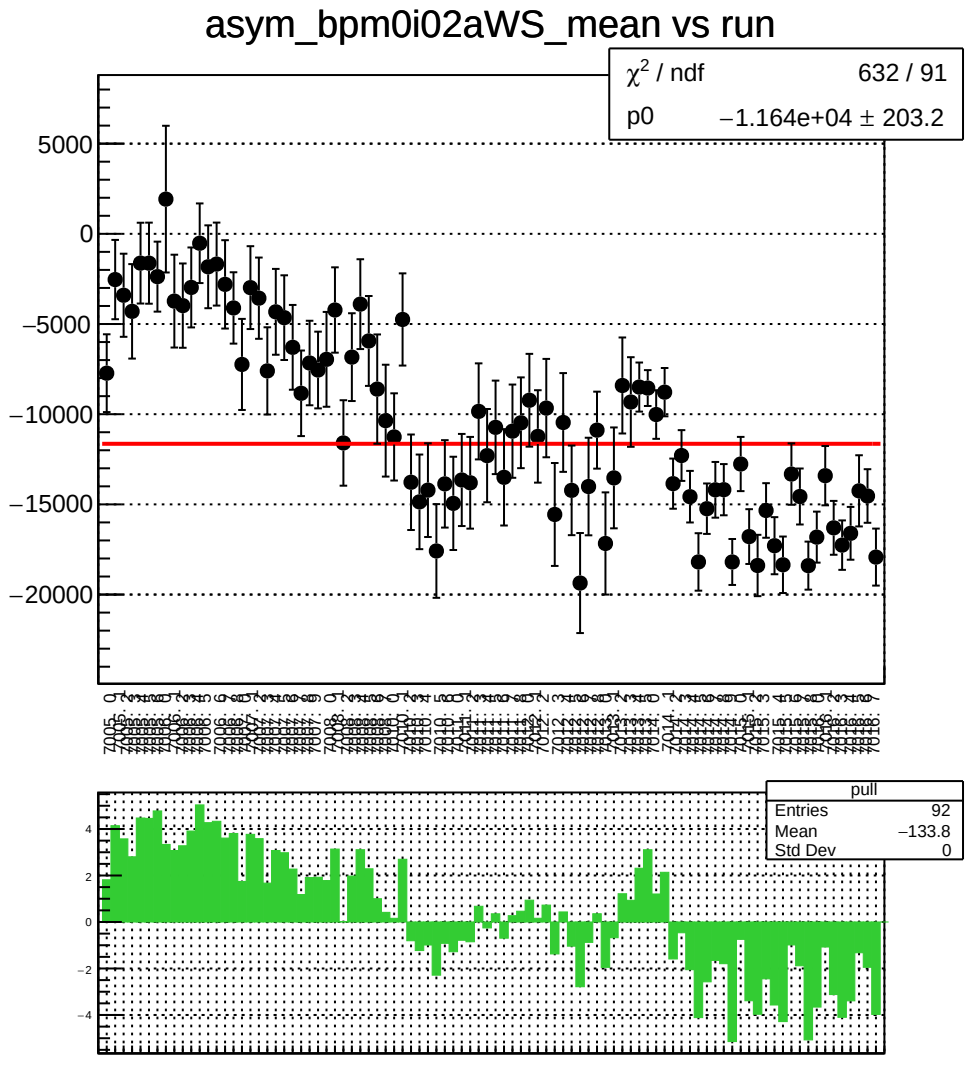

pull1D
Entries 92
Mean −0.01536
Std Dev 0.9243
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

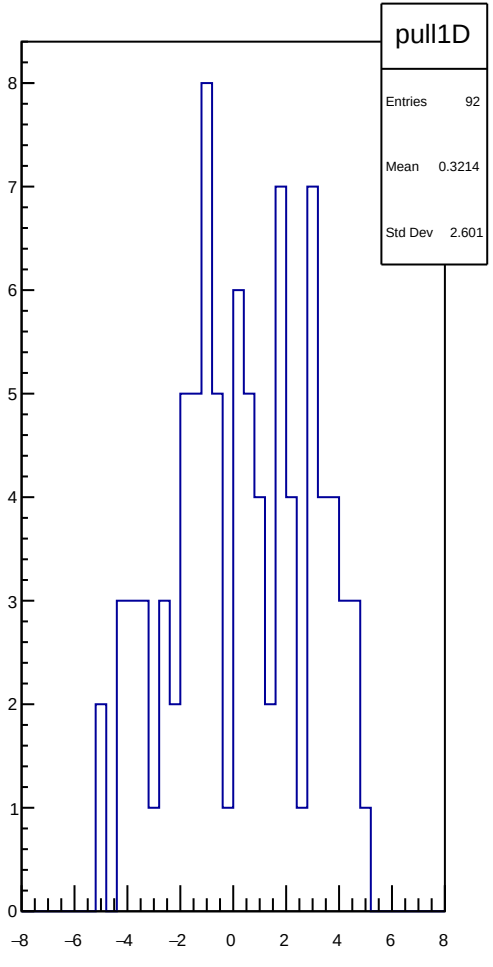

asym_bpm0r05WS_rms vs run
χ² / ndf 1.565e+04 / 91
p0 450.4 ± 0.3454
650
600
550
500
450
400
350

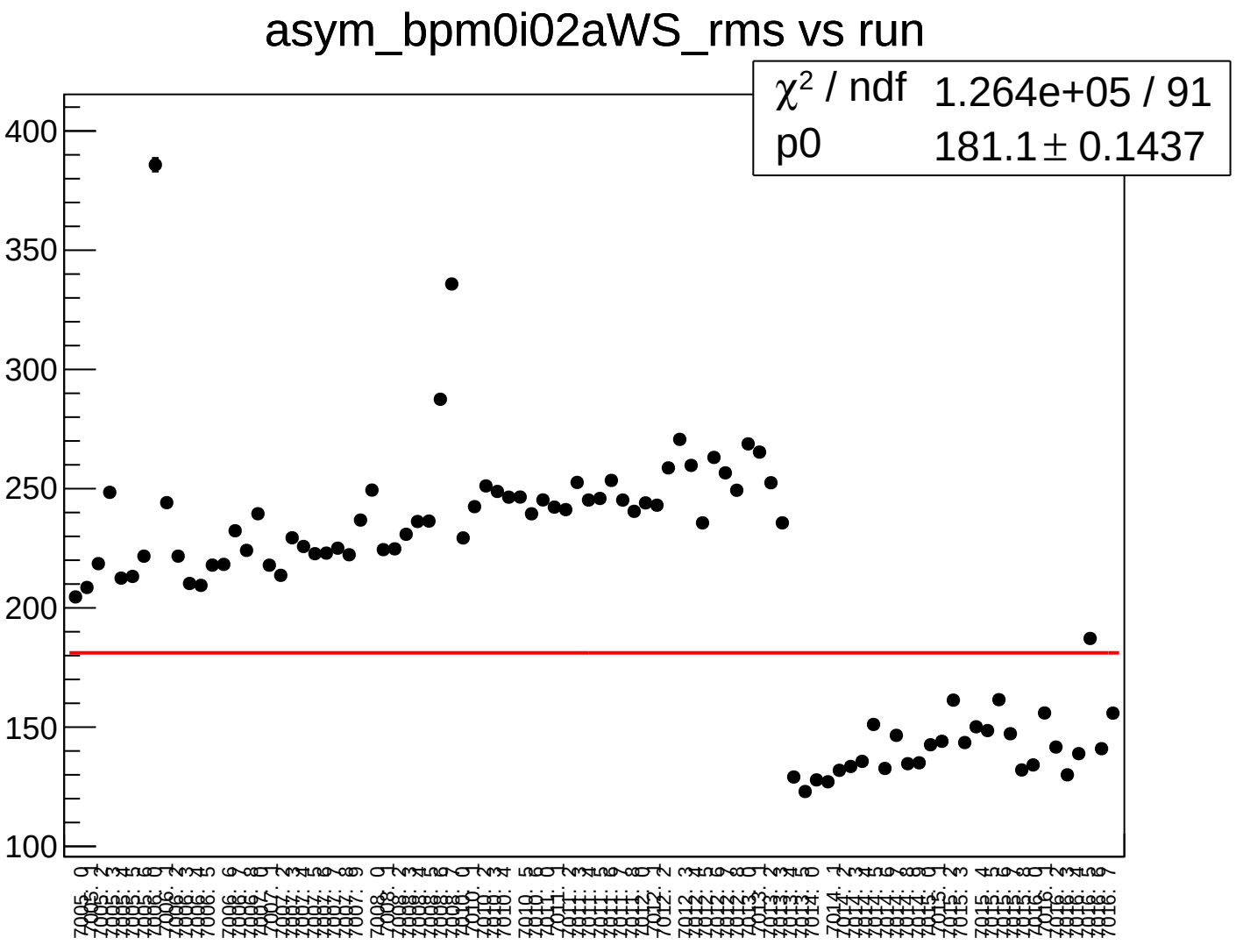

asym_bpm0i02WS_mean vs run
χ² / ndf 1566 / 91
p0 −3520 ± 150
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 536.8
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8

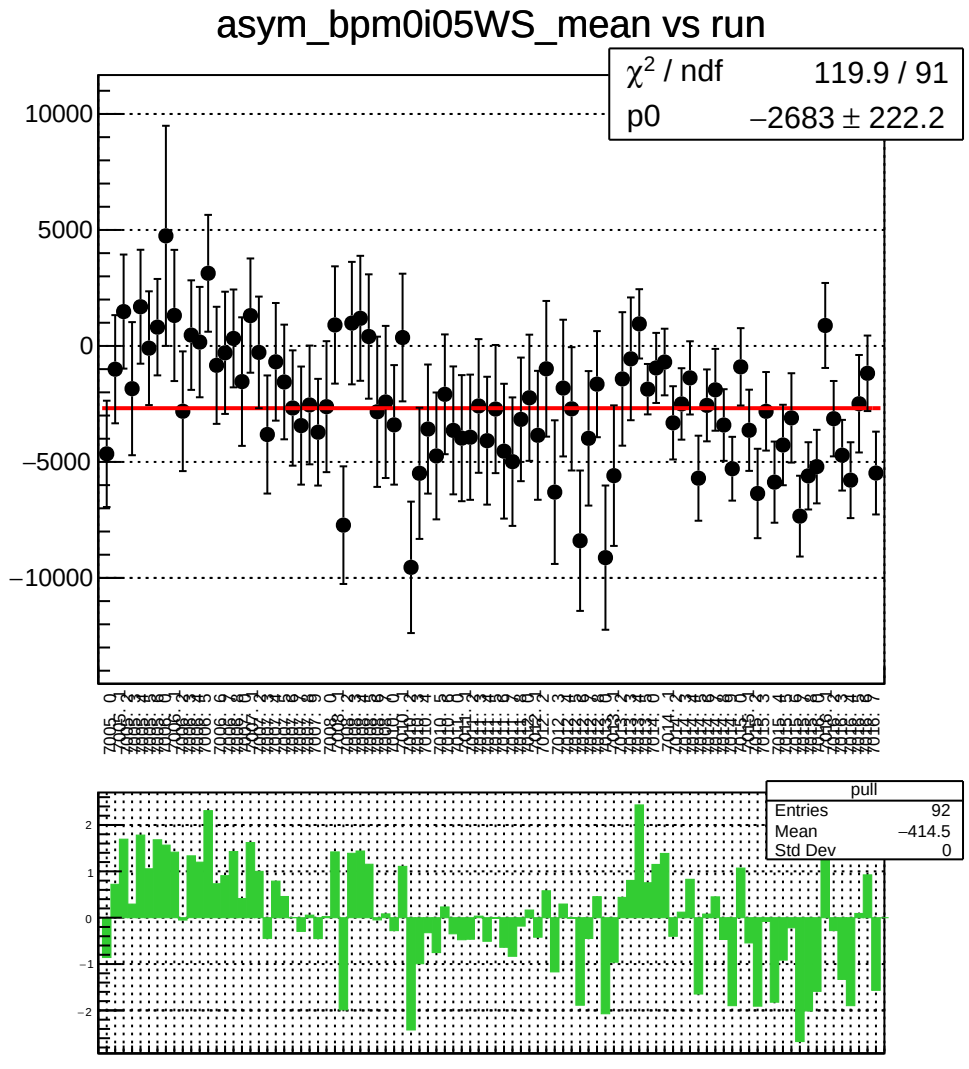

pull1D
Entries 92
Mean −0.3174
Std Dev 3.949
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

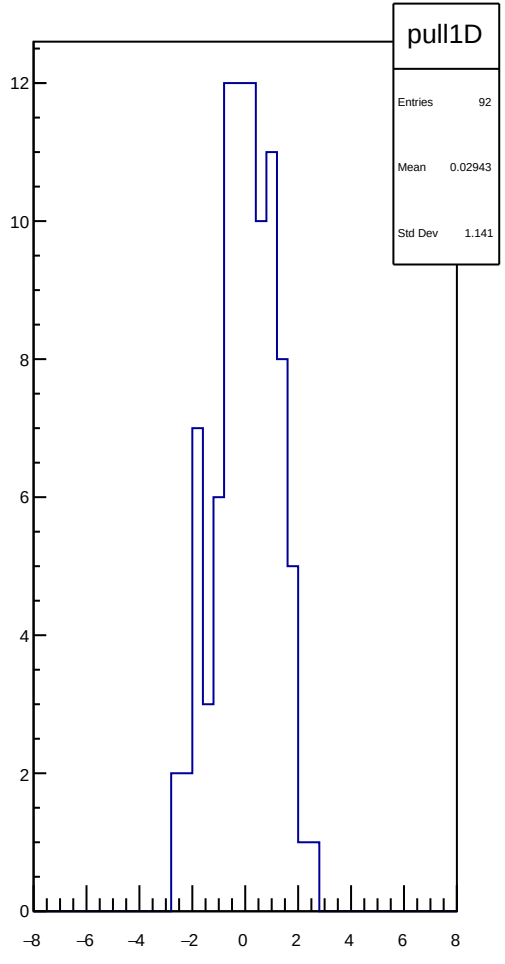

asym_bpm0i02WS_rms vs run
χ² / ndf 2.672e+04 / 91
p0 137.8 ± 0.1061
300
280
260
240
220
200
180
160
140
120

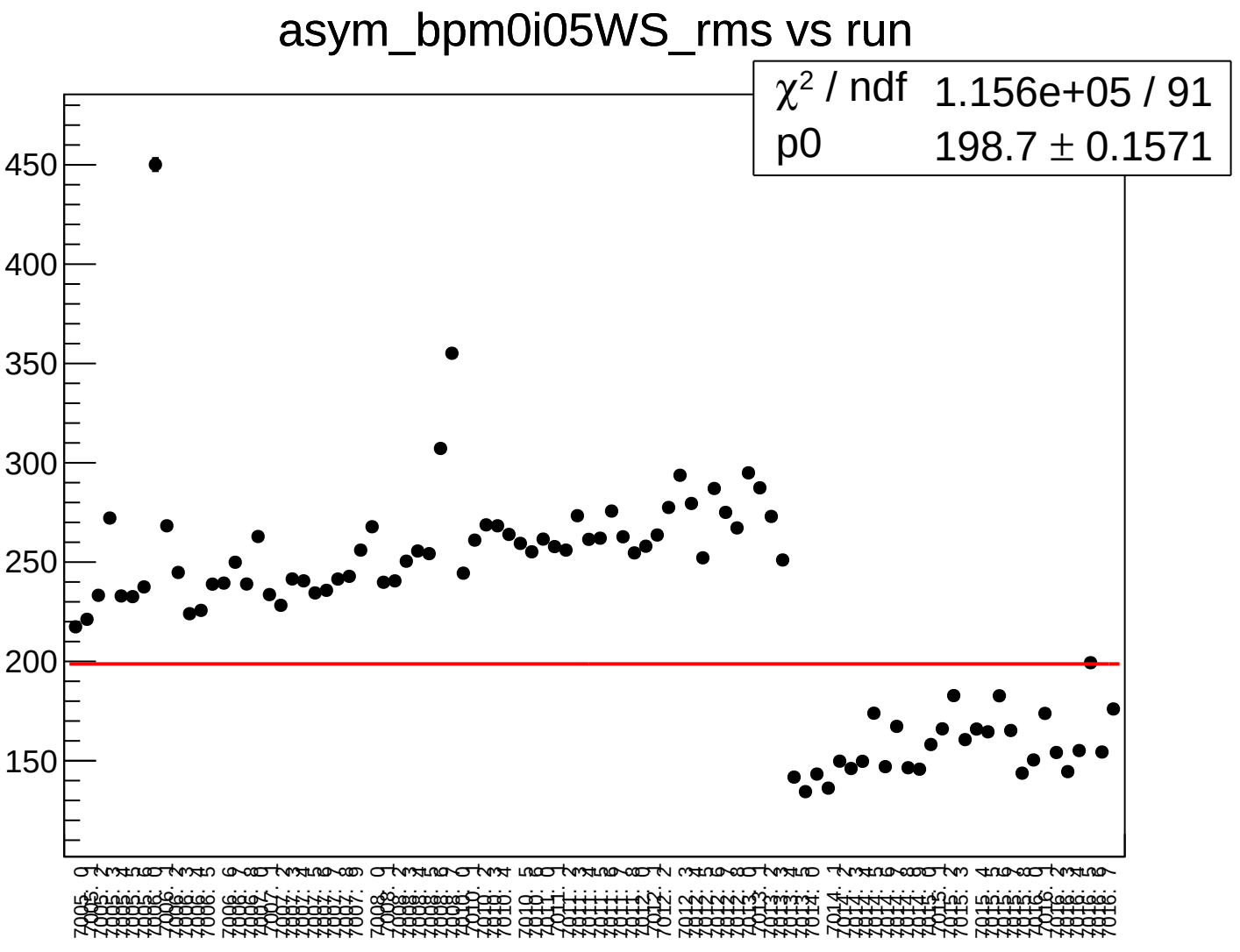

asym_bpm0i02aWS_mean vs run
χ² / ndf 632 / 91
p0 −1.164e+04 ± 203.2
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −133.8
Std Dev 0
4
2
0
−2
−4

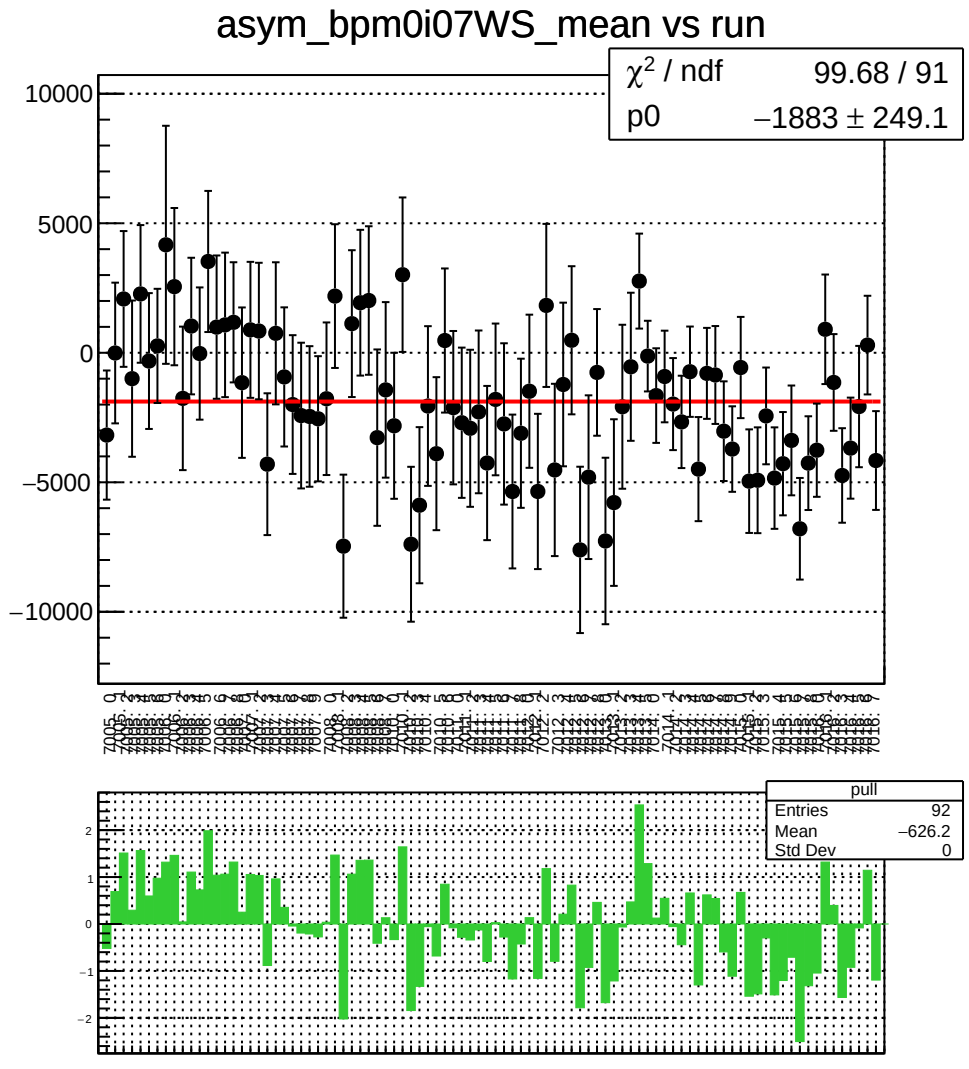

pull1D
Entries 92
Mean 0.3214
Std Dev 2.601
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

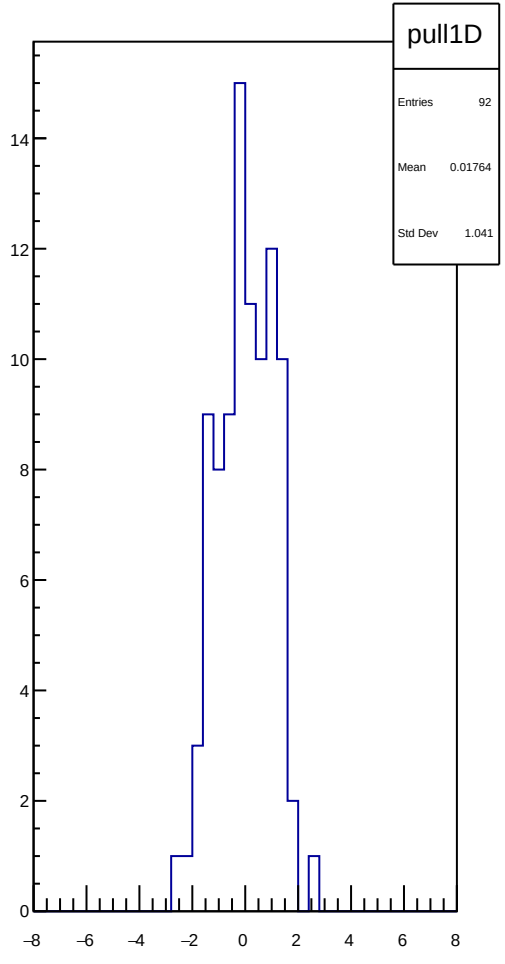

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.264e+05 / 91
p0 181.1 ± 0.1437
400
350
300
250
200
150
100

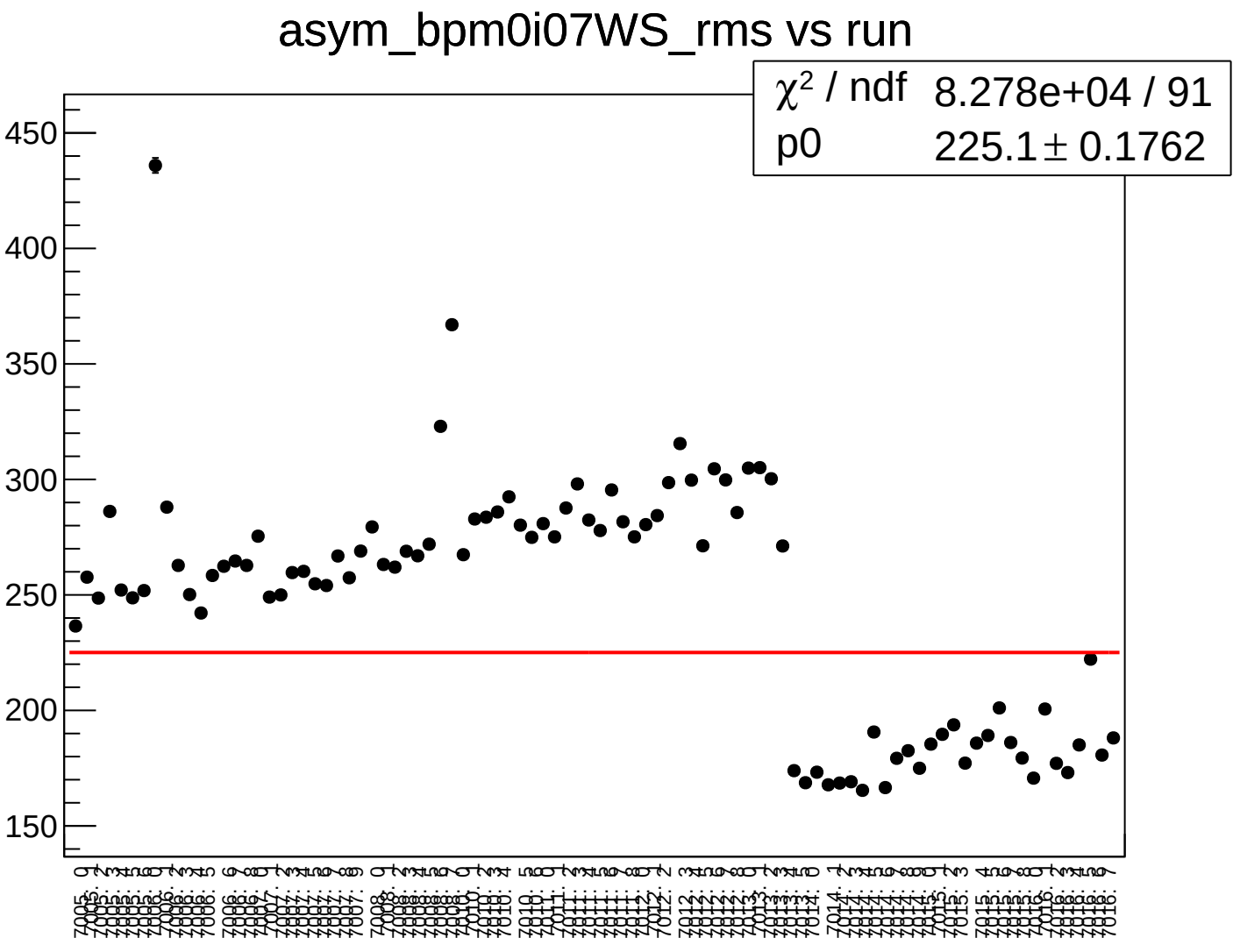

asym_bpm0i05WS_mean vs run
χ² / ndf 119.9 / 91
p0 −2683 ± 222.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −414.5
Std Dev 0
2
1
0
−1
−2

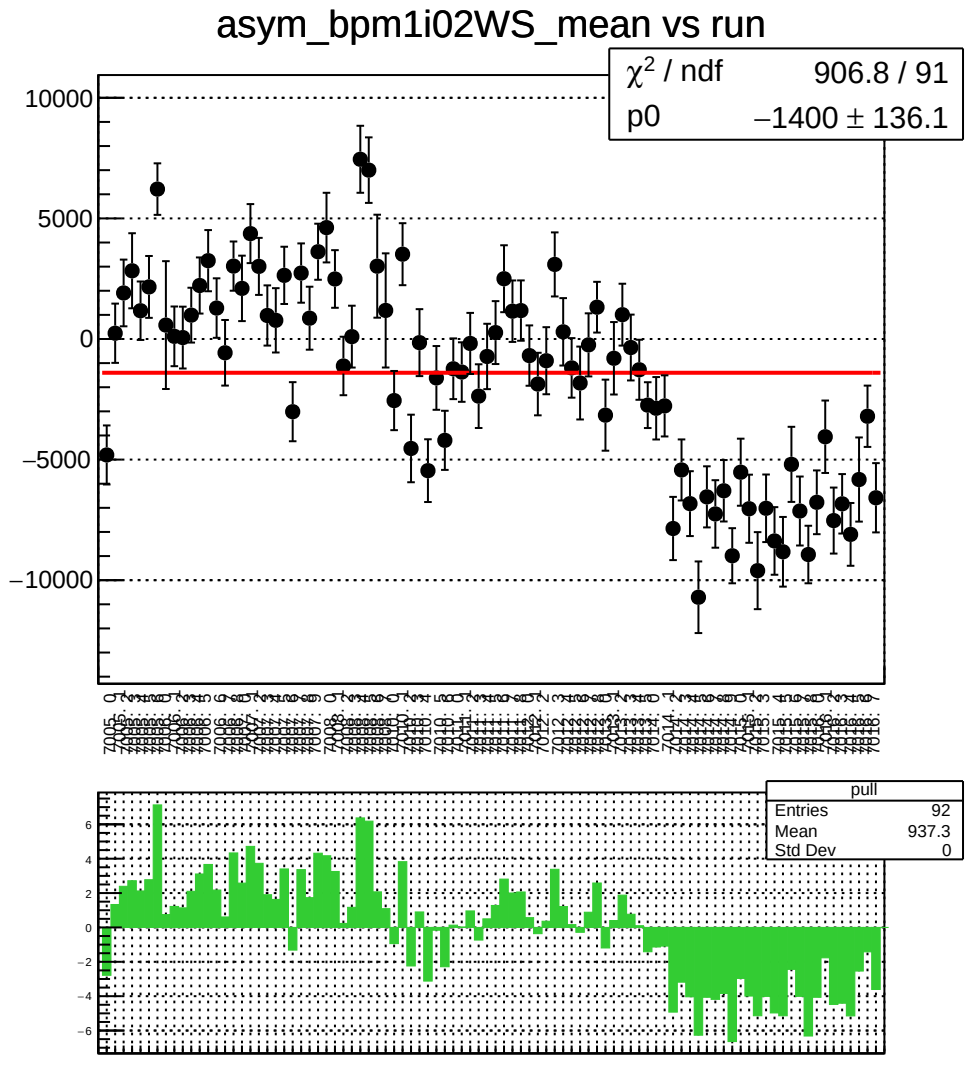

pull1D
Entries 92
Mean 0.02943
Std Dev 1.141
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

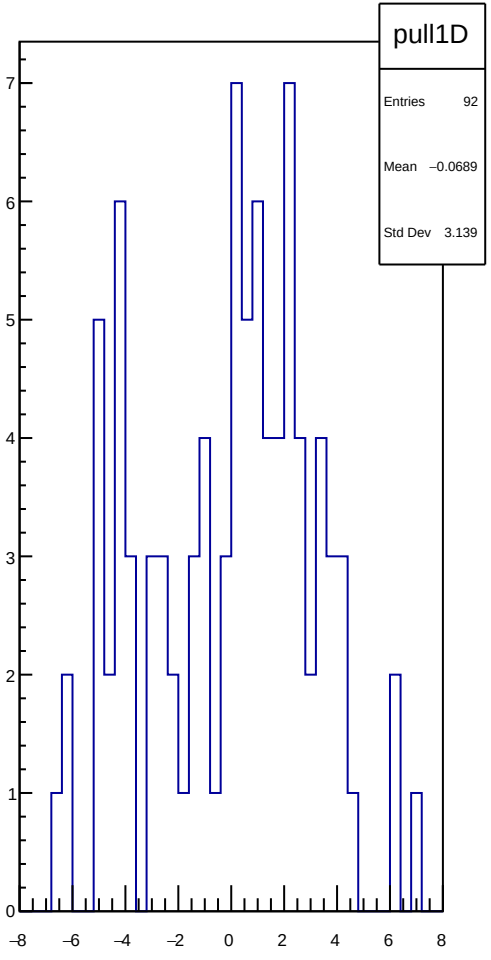

asym_bpm0i05WS_rms vs run
χ² / ndf 1.156e+05 / 91
p0 198.7 ± 0.1571
450
400
350
300
250
200
150

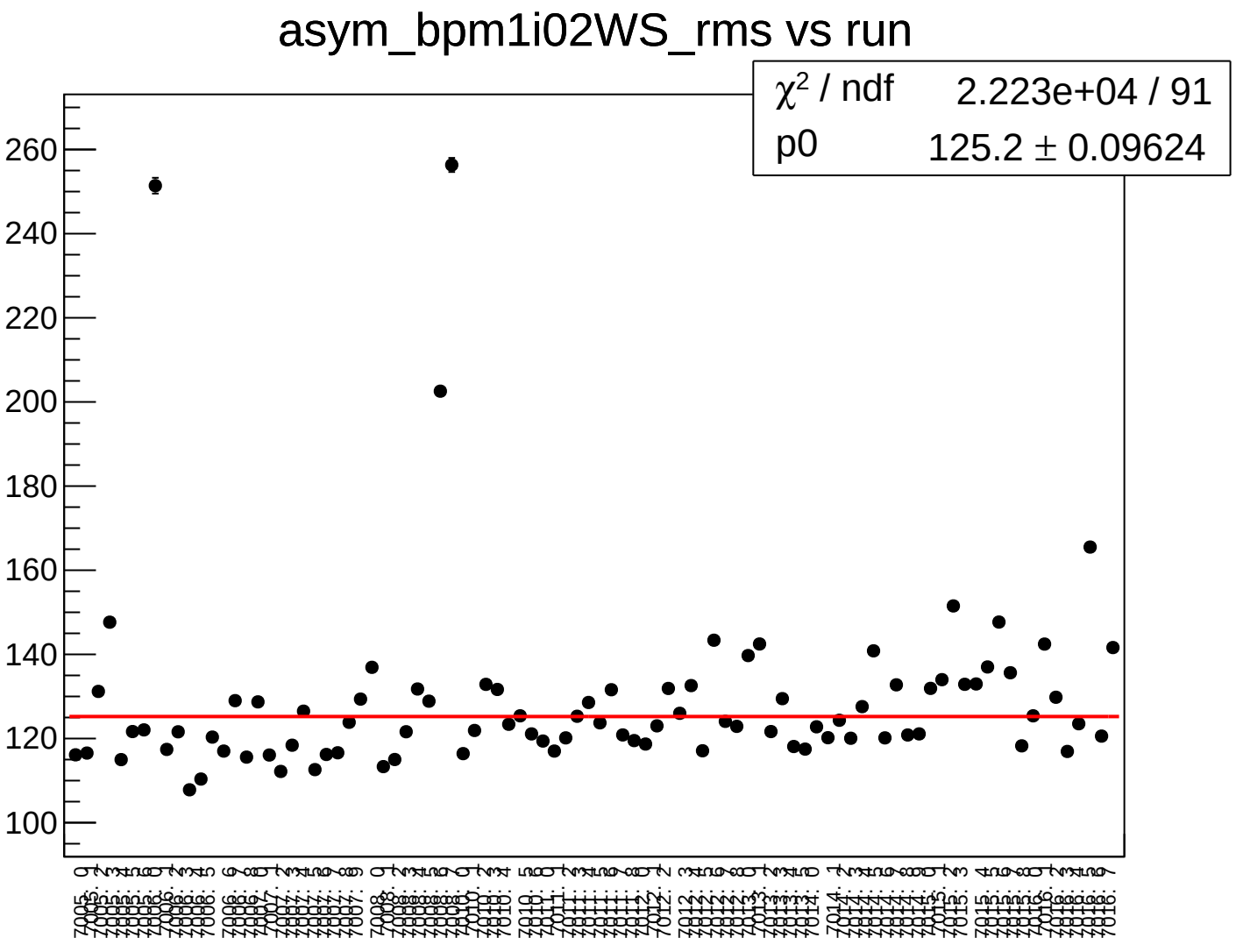

asym_bpm0i07WS_mean vs run
χ² / ndf 99.68 / 91
p0 −1883 ± 249.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −626.2
Std Dev 0
2
1
0
−1
−2

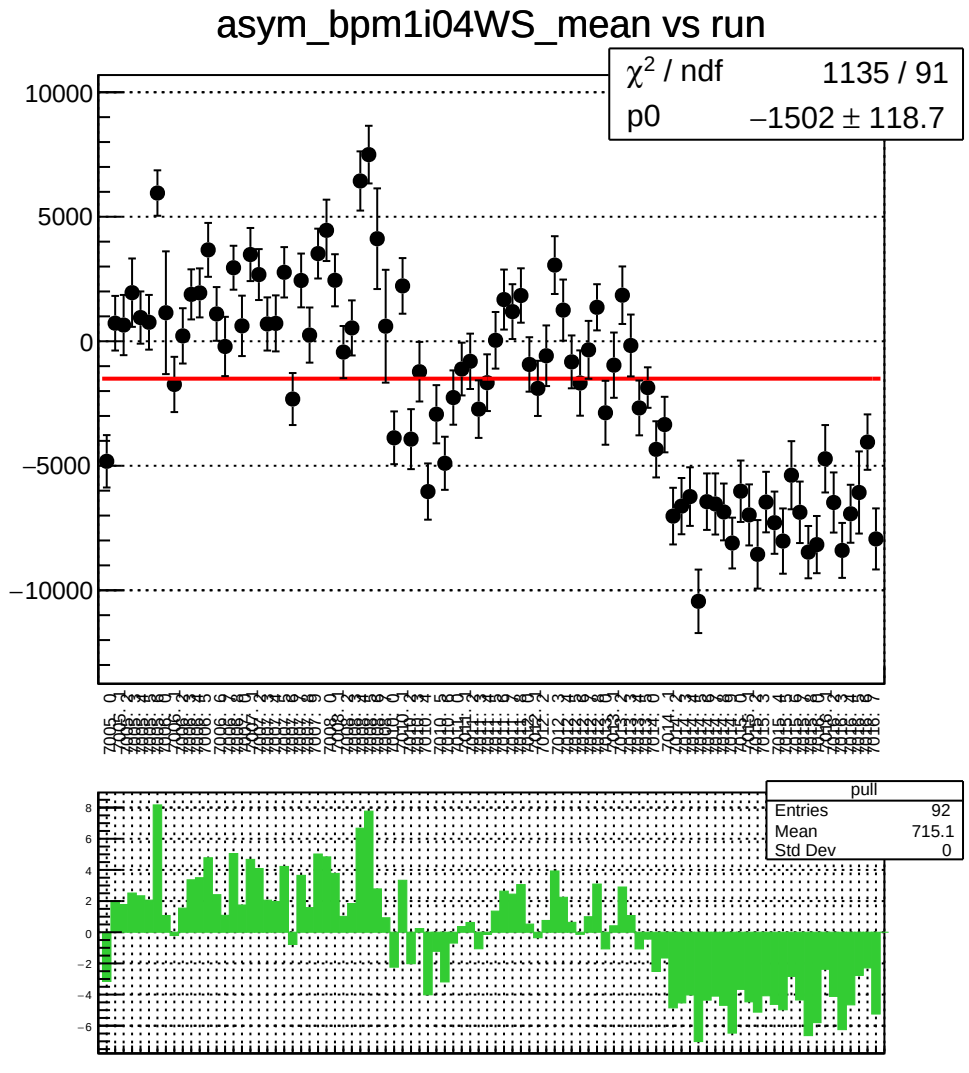

pull1D
Entries 92
Mean 0.01764
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

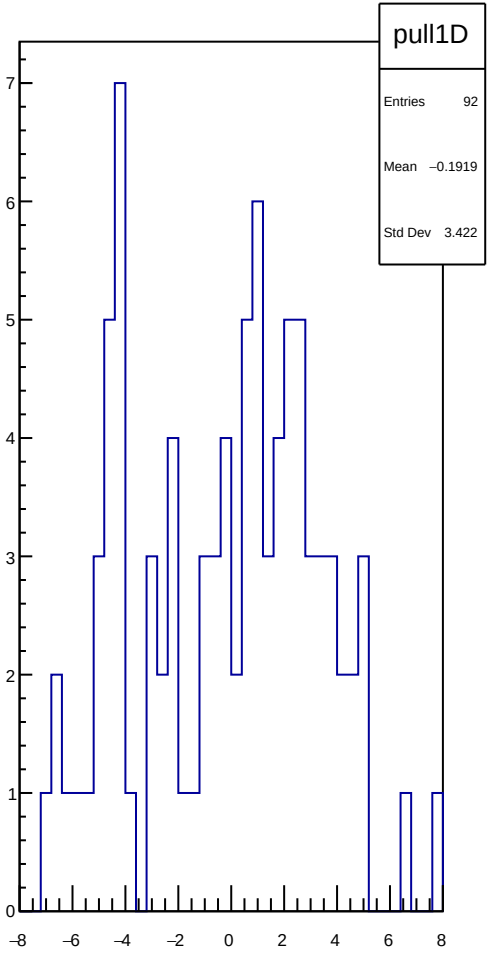

asym_bpm0i07WS_rms vs run
χ² / ndf 8.278e+04 / 91
p0 225.1 ± 0.1762
450
400
350
300
250
200
150

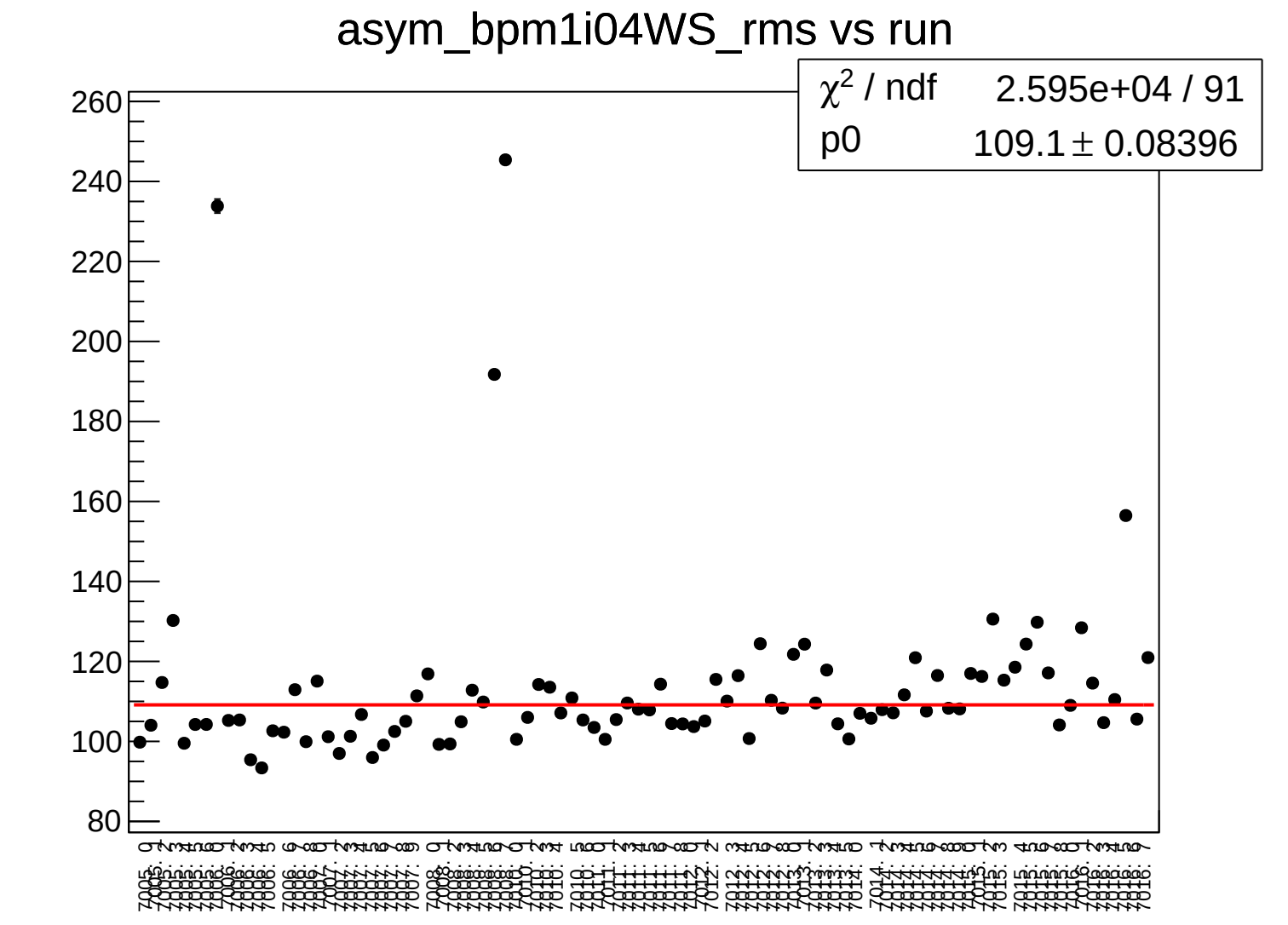

asym_bpm1i02WS_mean vs run
χ² / ndf 906.8 / 91
p0 −1400 ± 136.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 937.3
Std Dev 0
6
4
2
0
−2
−4
−6

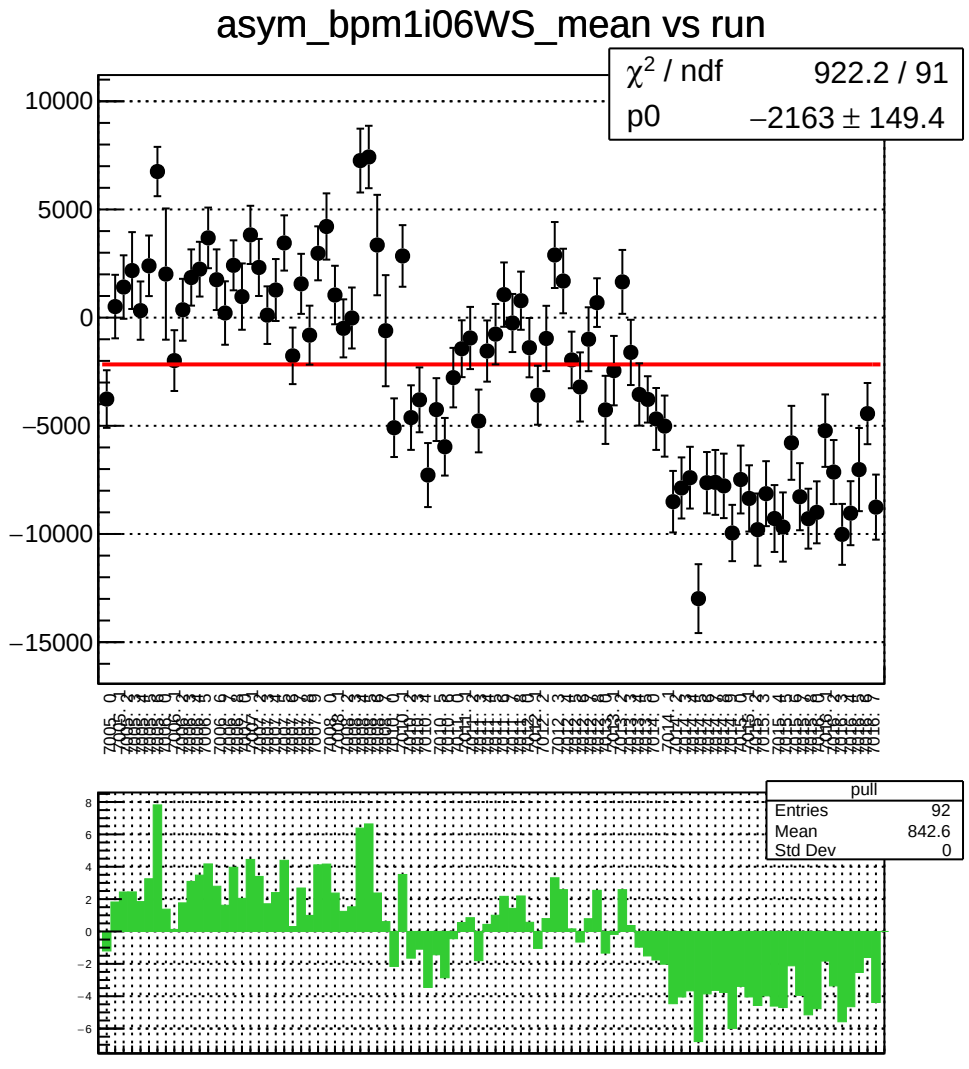

pull1D
Entries 92
Mean −0.0689
Std Dev 3.139
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

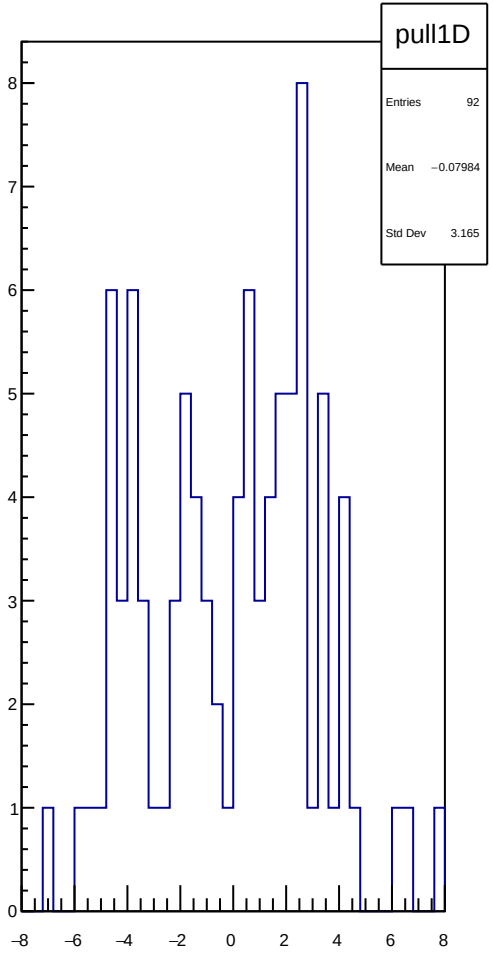

asym_bpm1i02WS_rms vs run
χ² / ndf 2.223e+04 / 91
p0 125.2 ± 0.09624
260
240
220
200
180
160
140
120
100

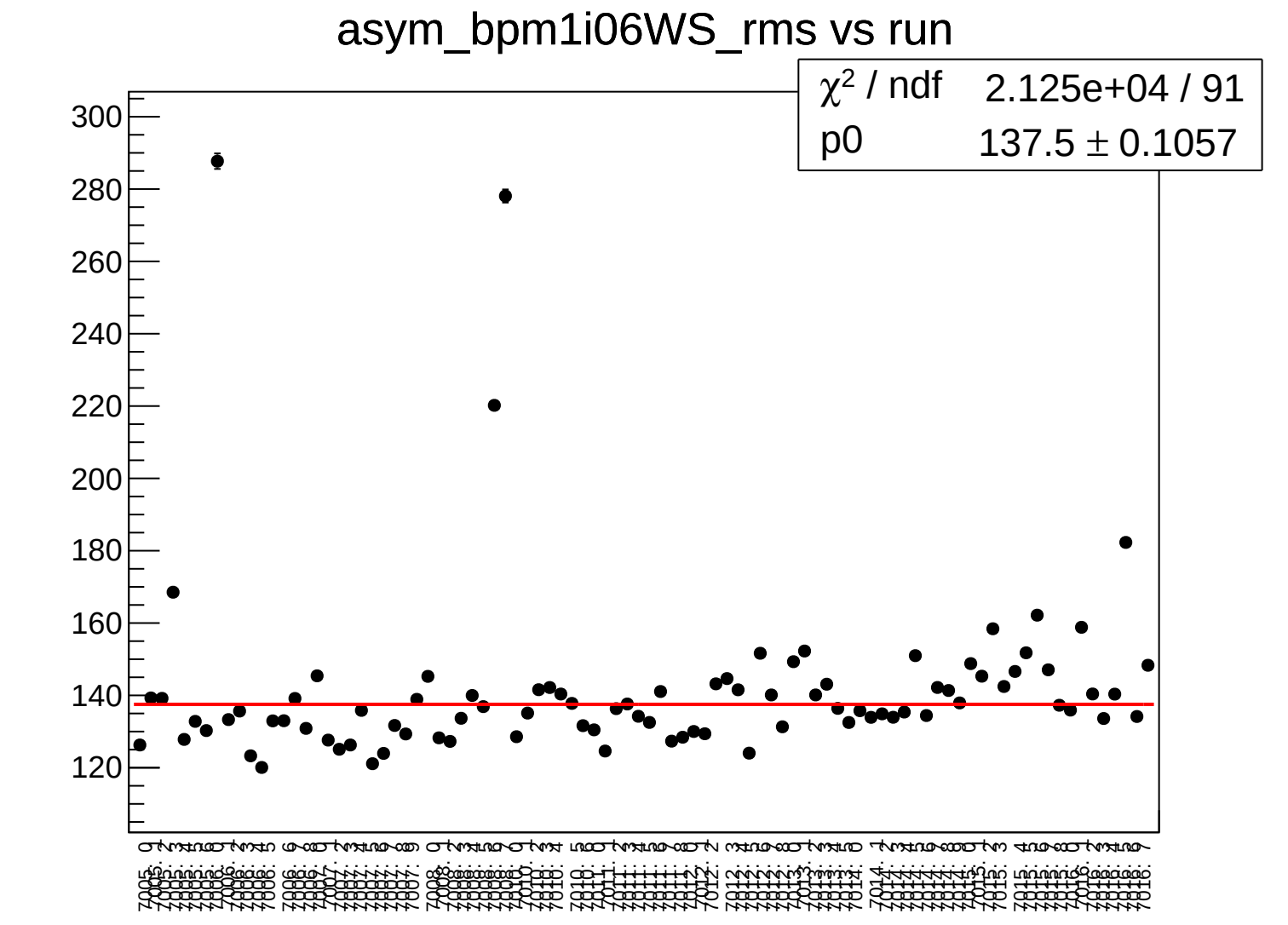

asym_bpm1i04WS_mean vs run
χ² / ndf 1135 / 91
p0 −1502 ± 118.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 715.1
Std Dev 0
8
6
4
2
0
−2
−4
−6

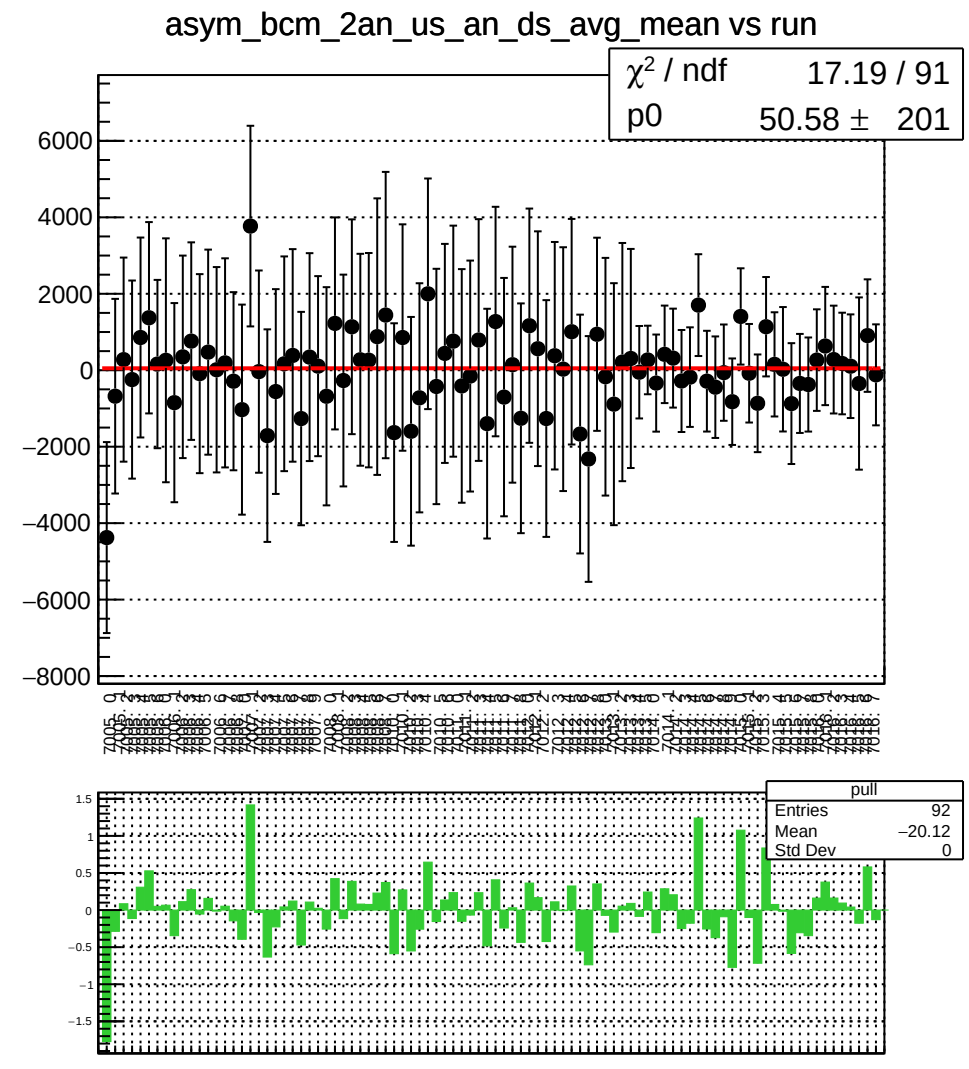

pull1D
Entries 92
Mean −0.1919
Std Dev 3.422
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

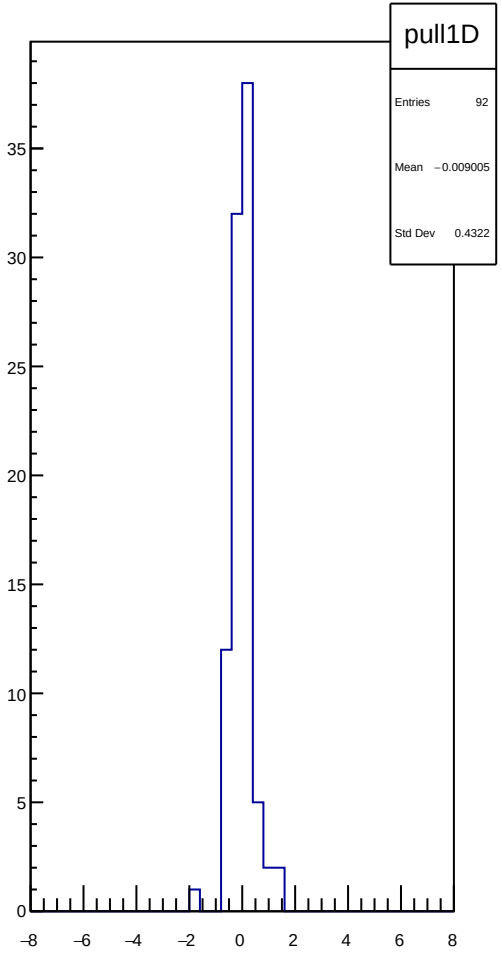

asym_bpm1i04WS_rms vs run
$\chi^2$ / ndf 2.595e+04 / 91
p0 109.1 ± 0.08396
260
240
220
200
180
160
140
120
100
80

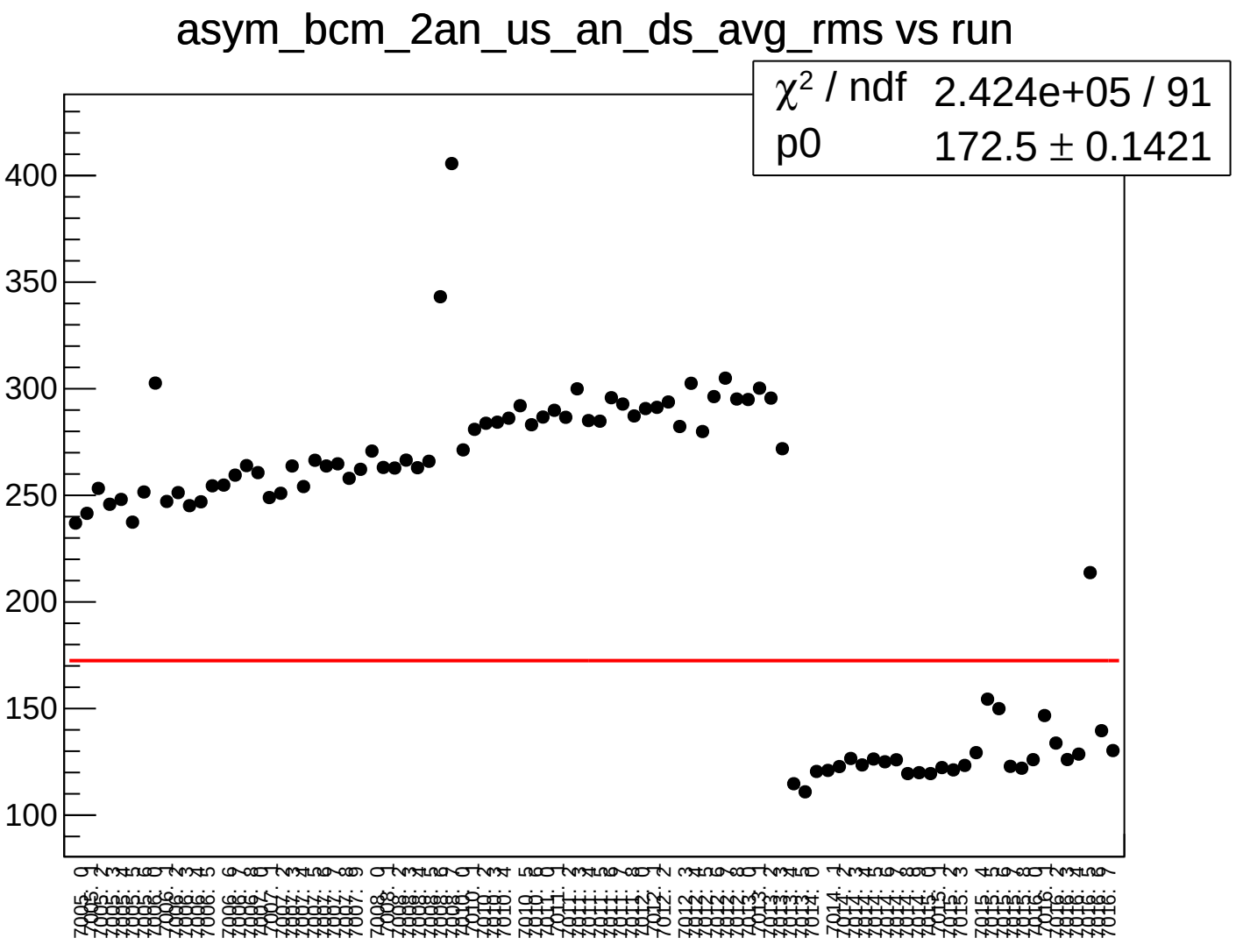

asym_bpm1i06WS_mean vs run
χ² / ndf 922.2 / 91
p0 −2163 ± 149.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 842.6
Std Dev 0
8
6
4
2
0
−2
−4
−6

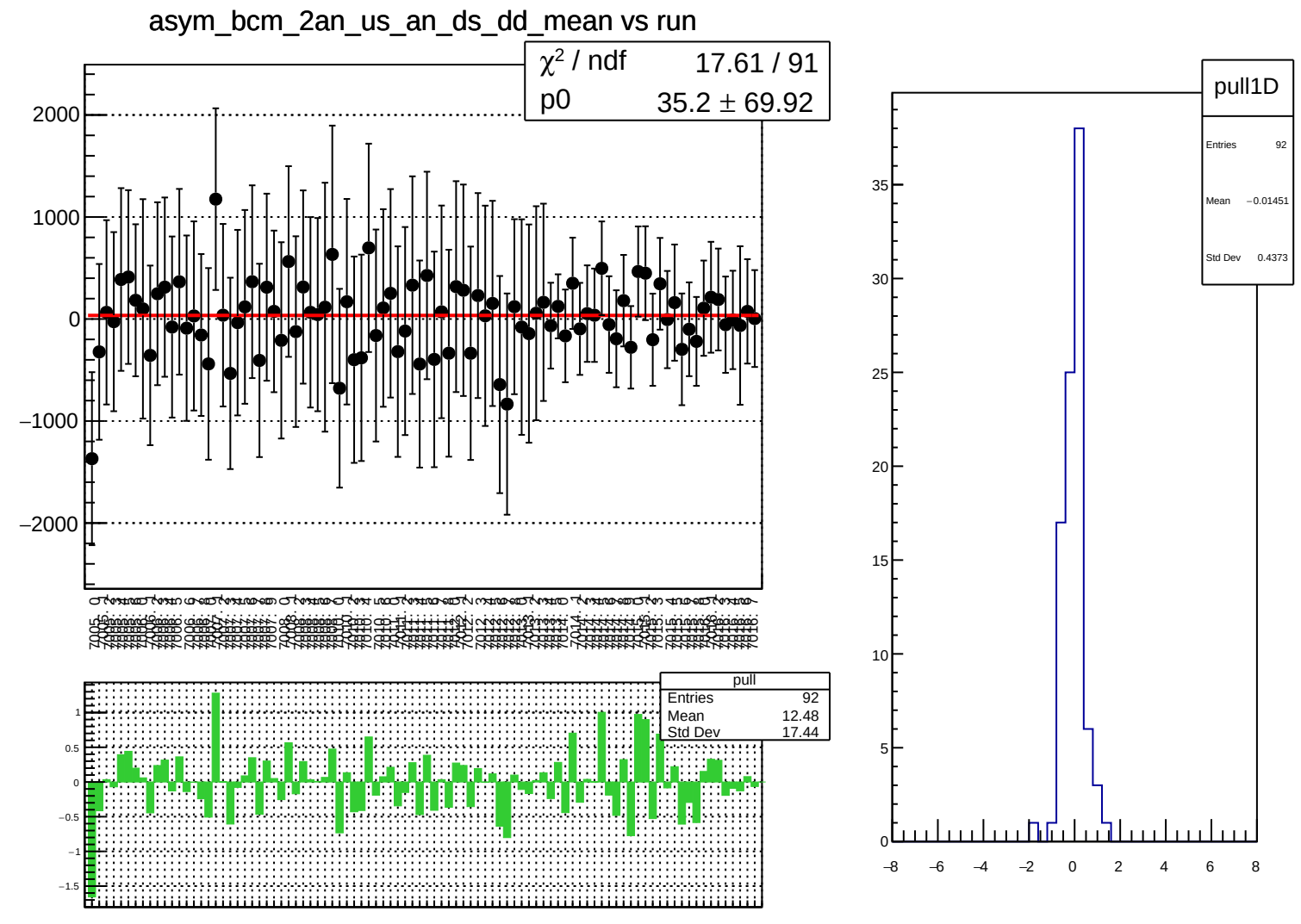

pull1D
Entries 92
Mean −0.07984
Std Dev 3.165
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

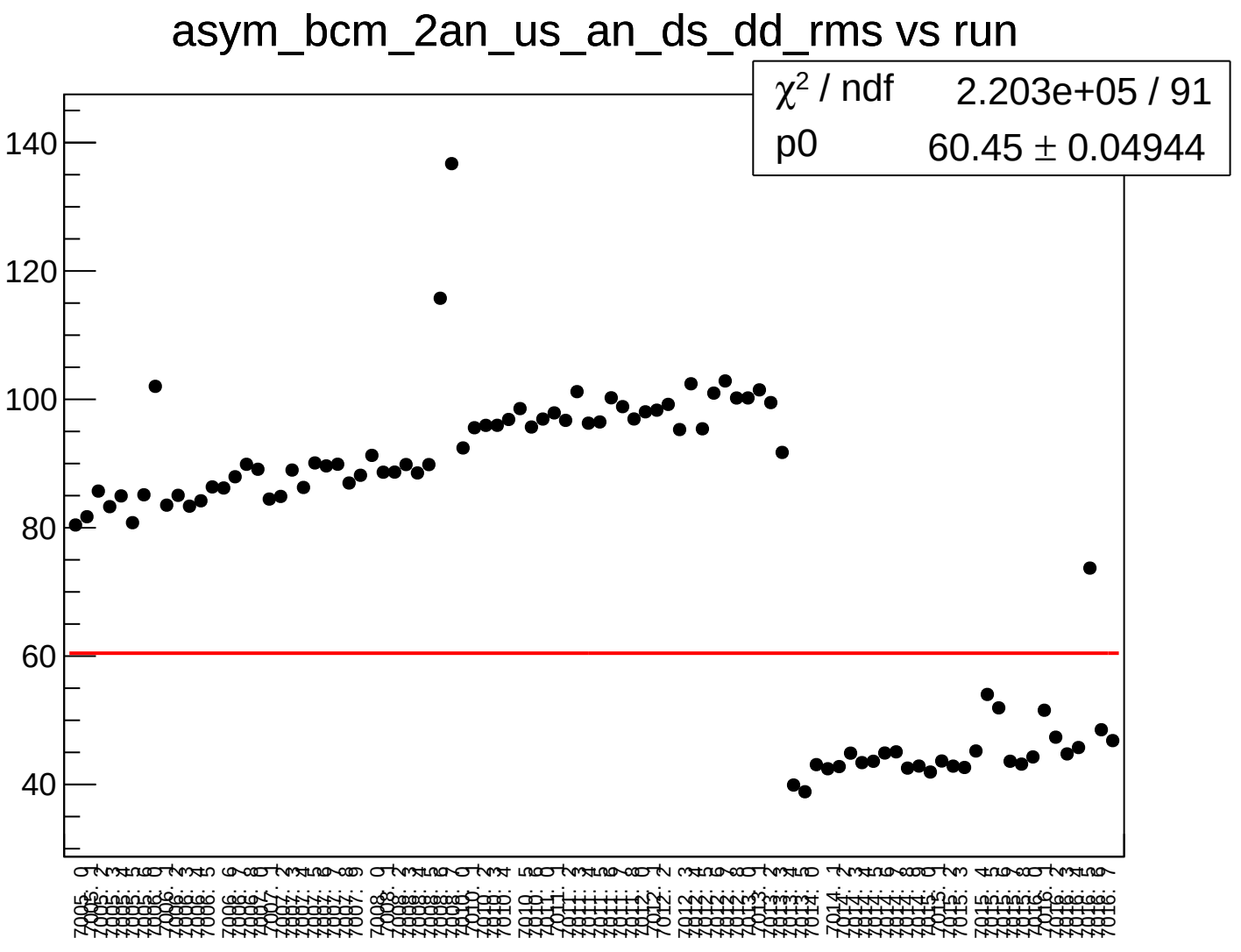

asym_bpm1i06WS_rms vs run
χ² / ndf 2.125e+04 / 91
p0 137.5 ± 0.1057
300
280
260
240
220
200
180
160
140
120

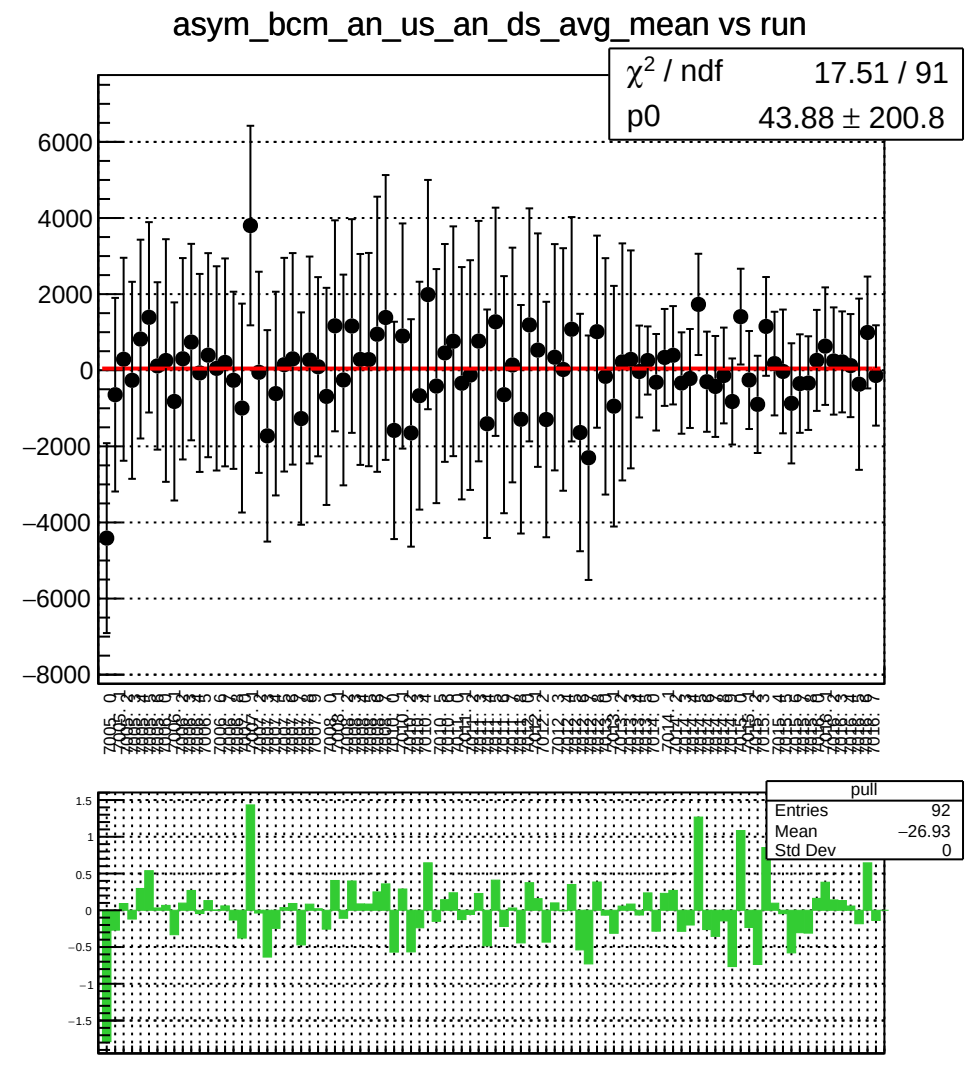

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 17.19 / 91
p0 50.58 ± 201
pull
Entries 92
Mean −20.12
Std Dev 0

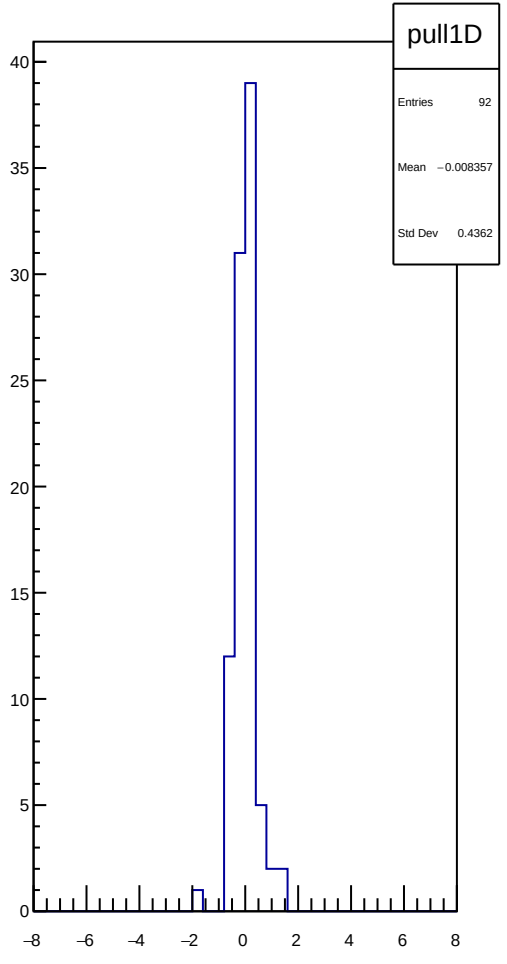

pull1D
Entries 92
Mean −0.009005
Std Dev 0.4322

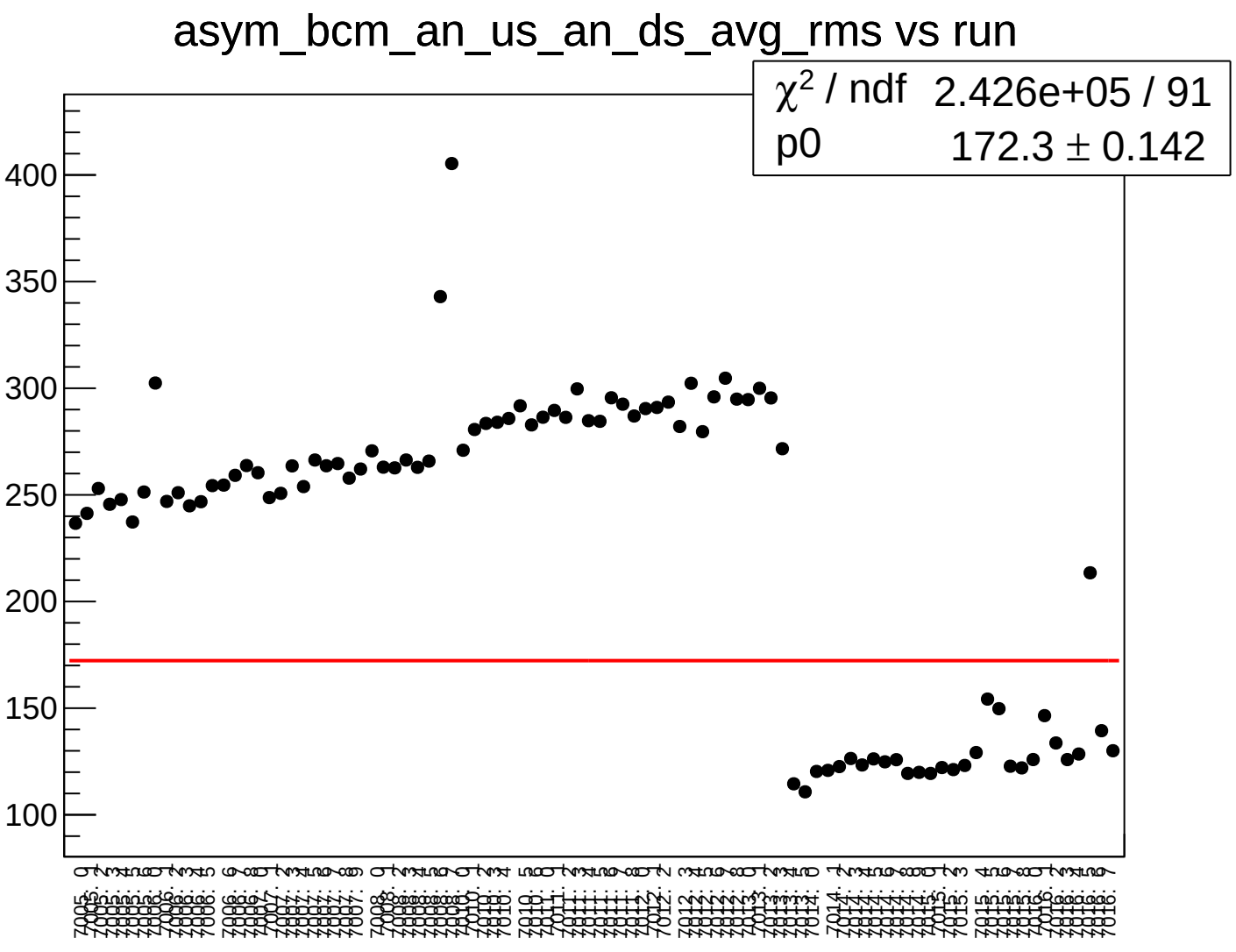

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 2.424e+05 / 91
p0 172.5 ± 0.1421
400
350
300
250
200
150
100

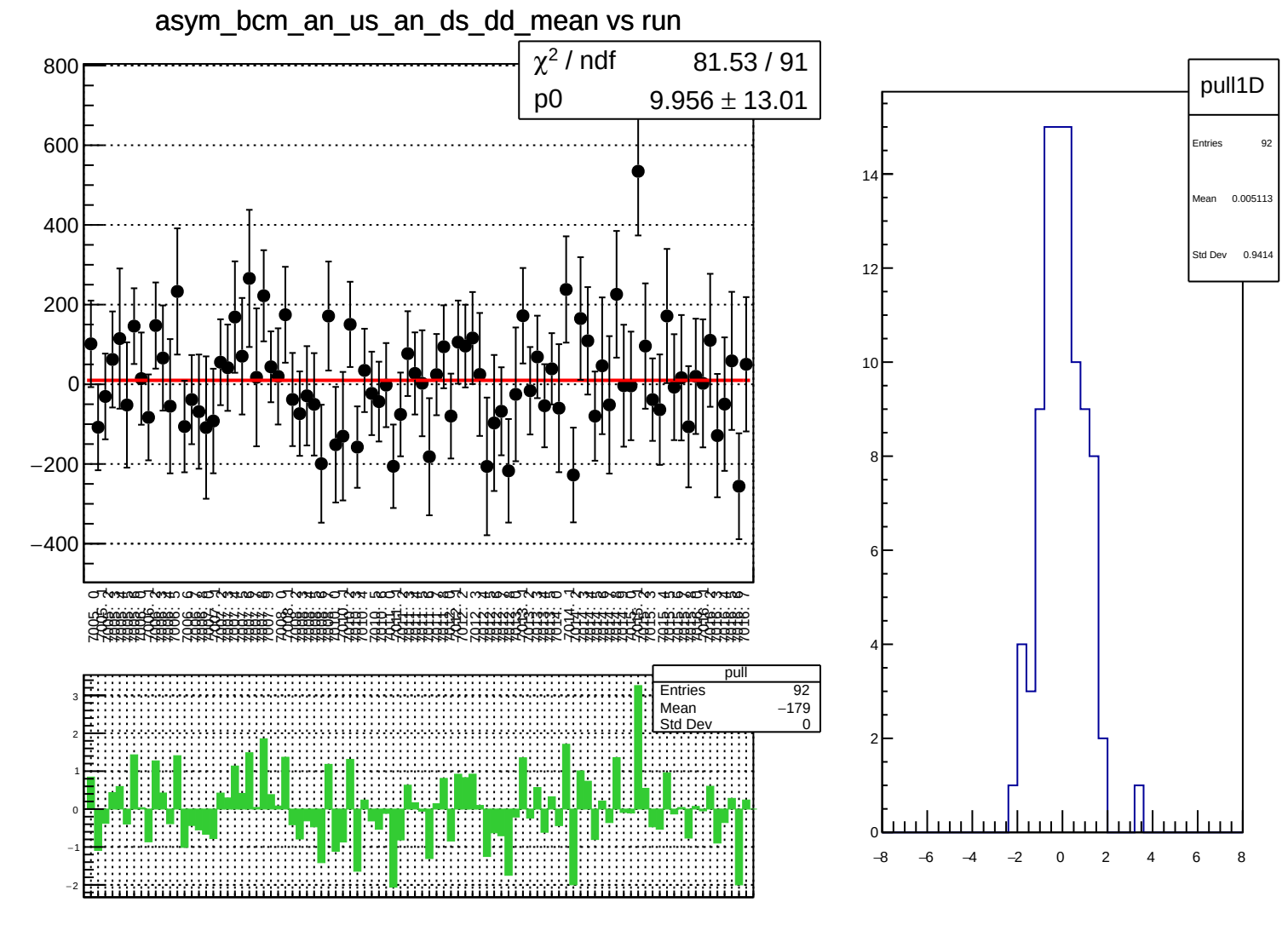

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 17.61 / 91
p0 35.2 ± 69.92
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 12.48
Std Dev 17.44
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.01451
Std Dev 0.4373
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

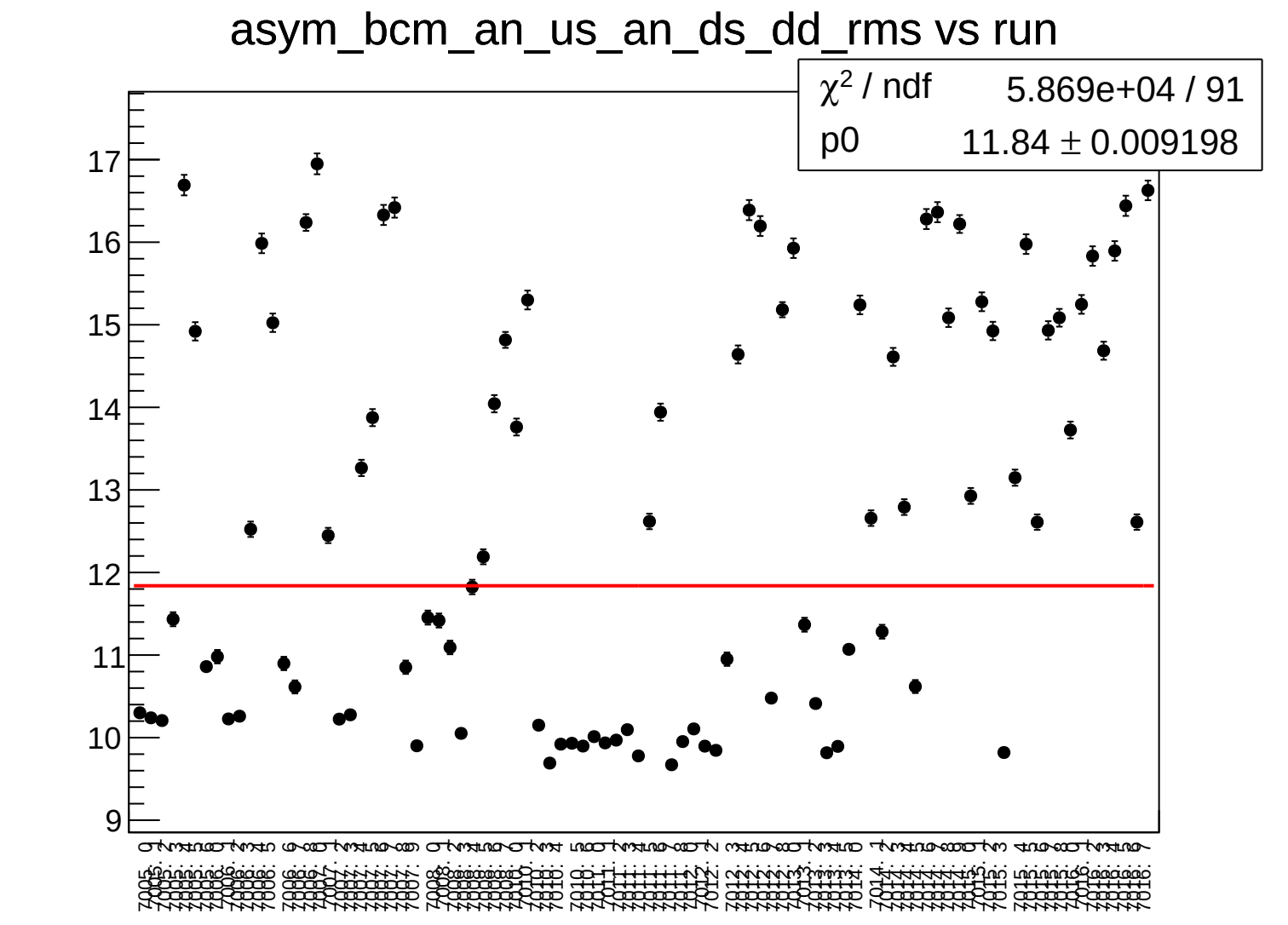

asym_bcm_2an_us_an_ds_dd_rms vs run
$\chi^2$ / ndf 2.203e+05 / 91
p0 60.45 ± 0.04944
140
120
100
80
60
40

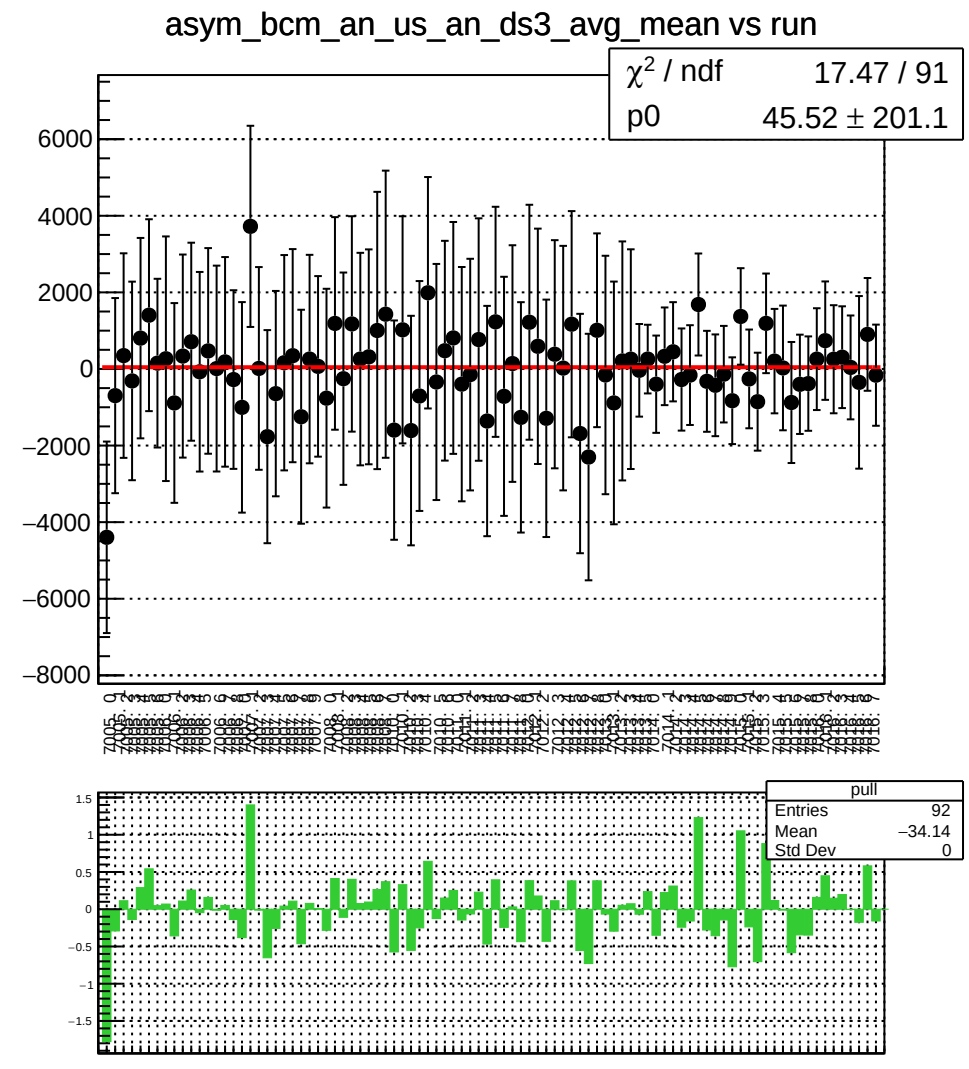

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 17.51 / 91
p0 43.88 ± 200.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −26.93
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

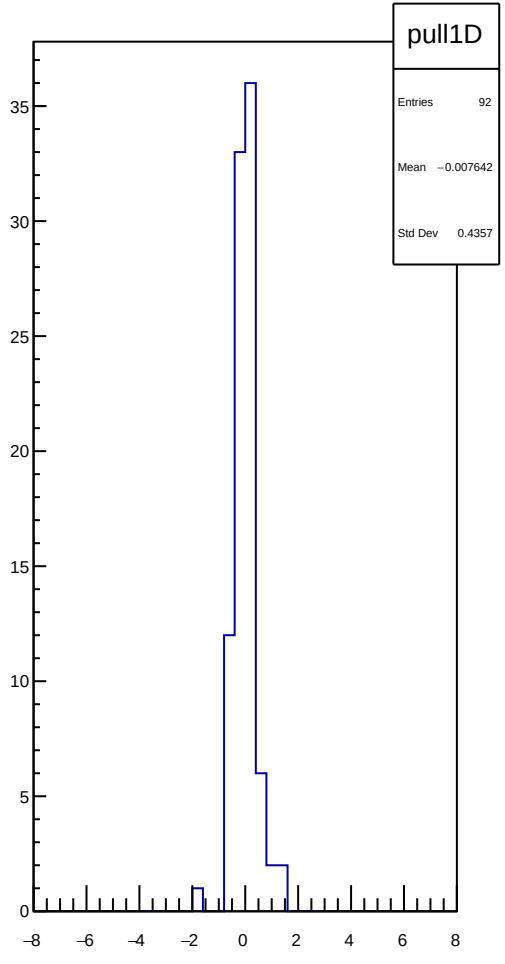

pull1D
Entries 92
Mean −0.008357
Std Dev 0.4362
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

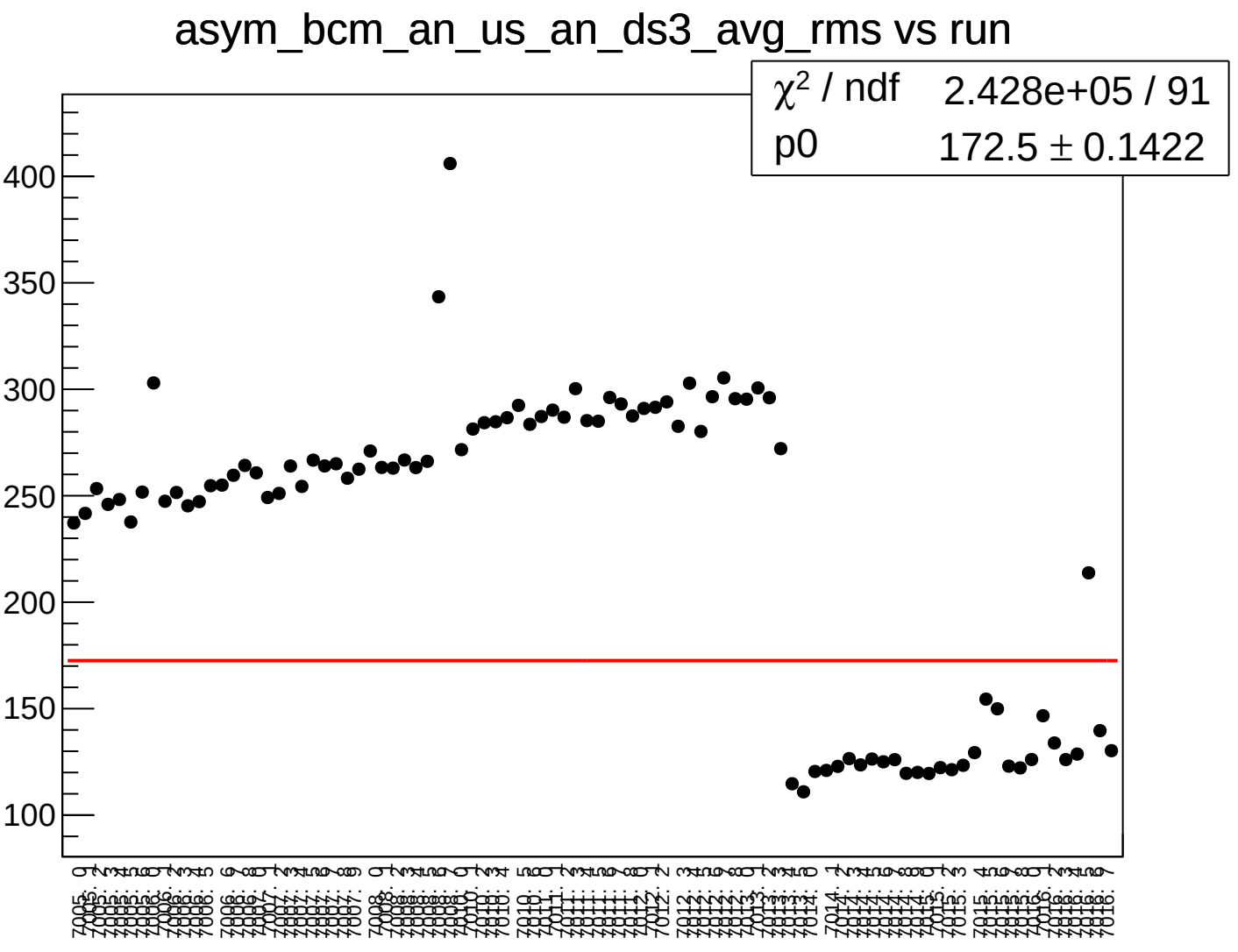

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 2.426e+05 / 91
p0 172.3 ± 0.142
400
350
300
250
200
150
100

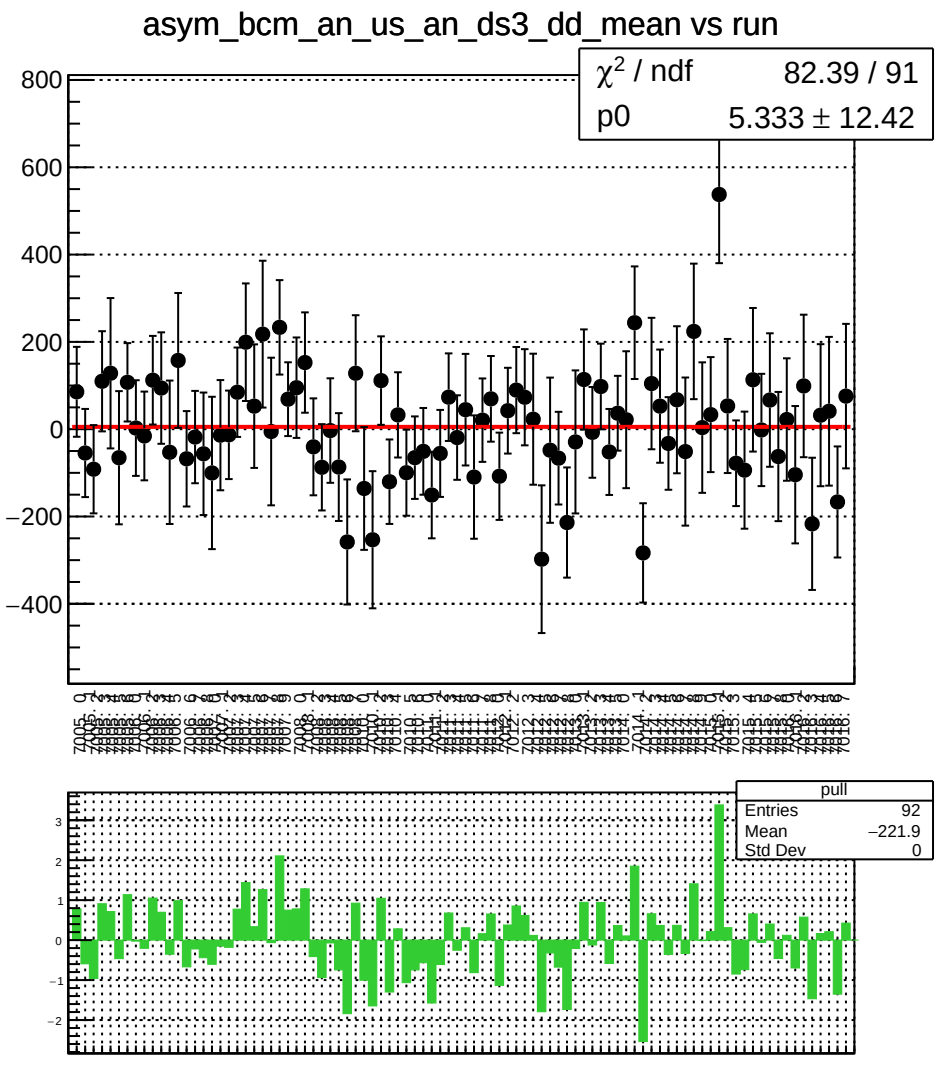

asym_bcm_an_us_an_ds_dd_mean vs run
$\chi^2$ / ndf 81.53 / 91
p0 9.956 ± 13.01
pull
Entries 92
Mean −179
Std Dev 0
pull1D
Entries 92
Mean 0.005113
Std Dev 0.9414

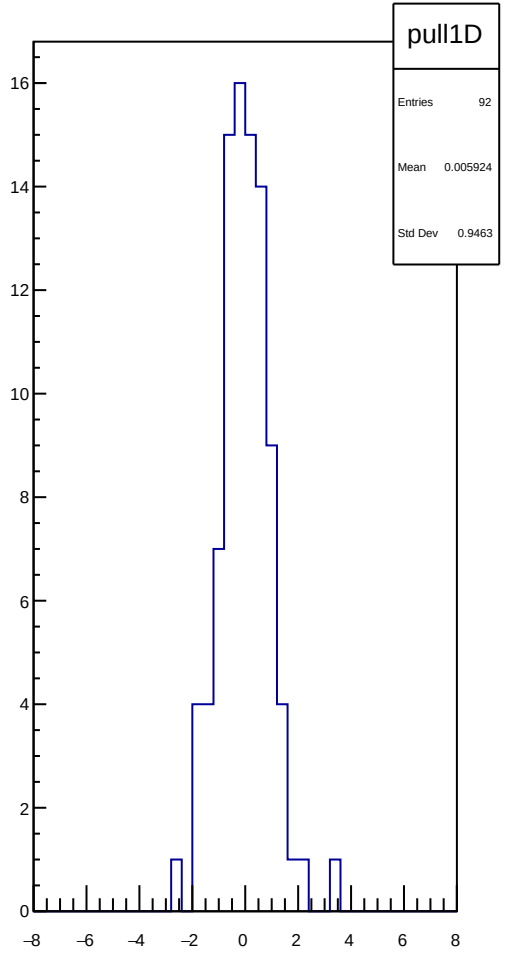

asym_bcm_an_us_an_ds_dd_rms vs run
$\chi^2$ / ndf 5.869e+04 / 91
p0 11.84 ± 0.009198
17
16
15
14
13
12
11
10
9

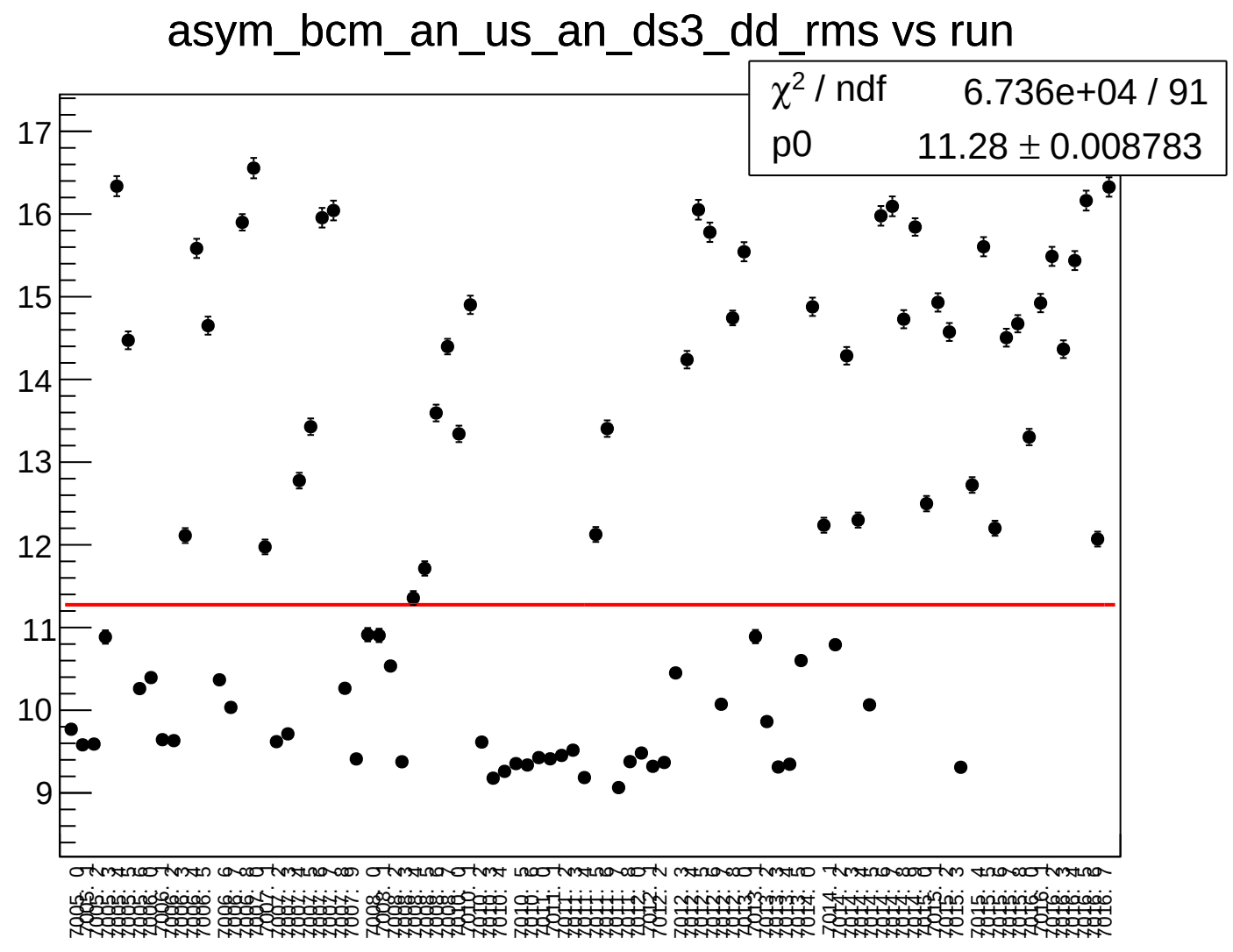

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 17.47 / 91
p0 45.52 ± 201.1
pull
Entries 92
Mean −34.14
Std Dev 0

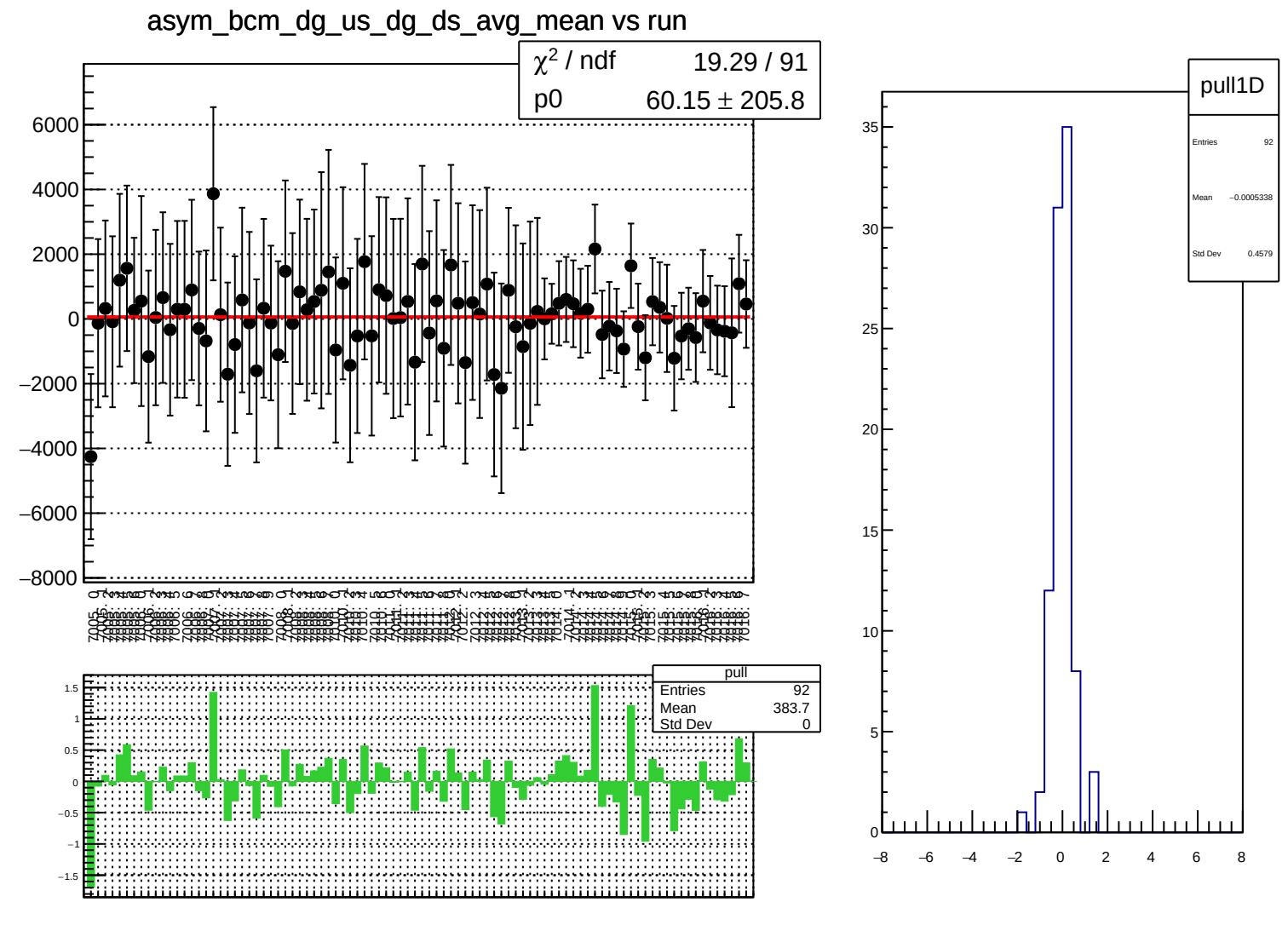

pull1D
Entries 92
Mean −0.007642
Std Dev 0.4357

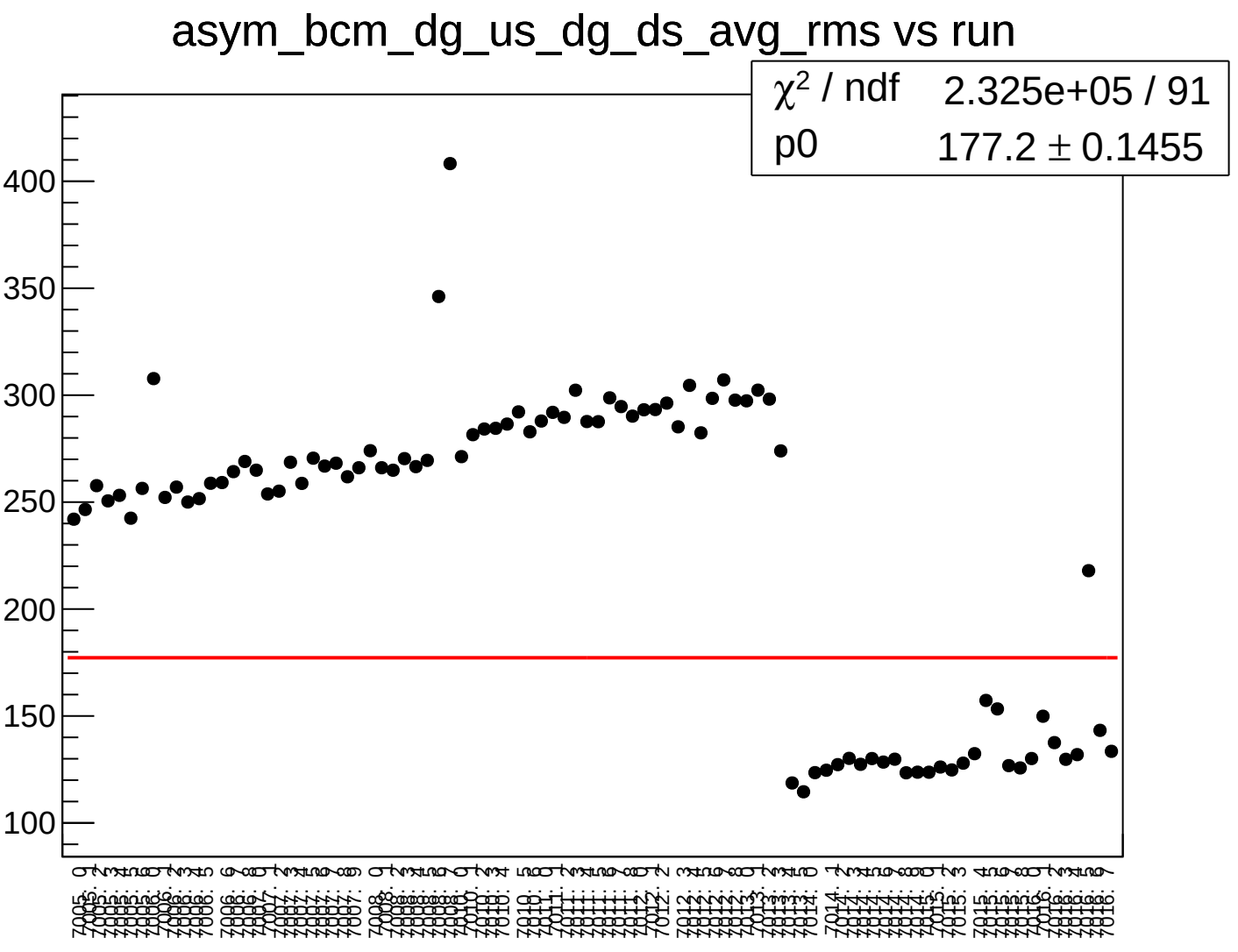

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 2.428e+05 / 91
p0 172.5 ± 0.1422
400
350
300
250
200
150
100

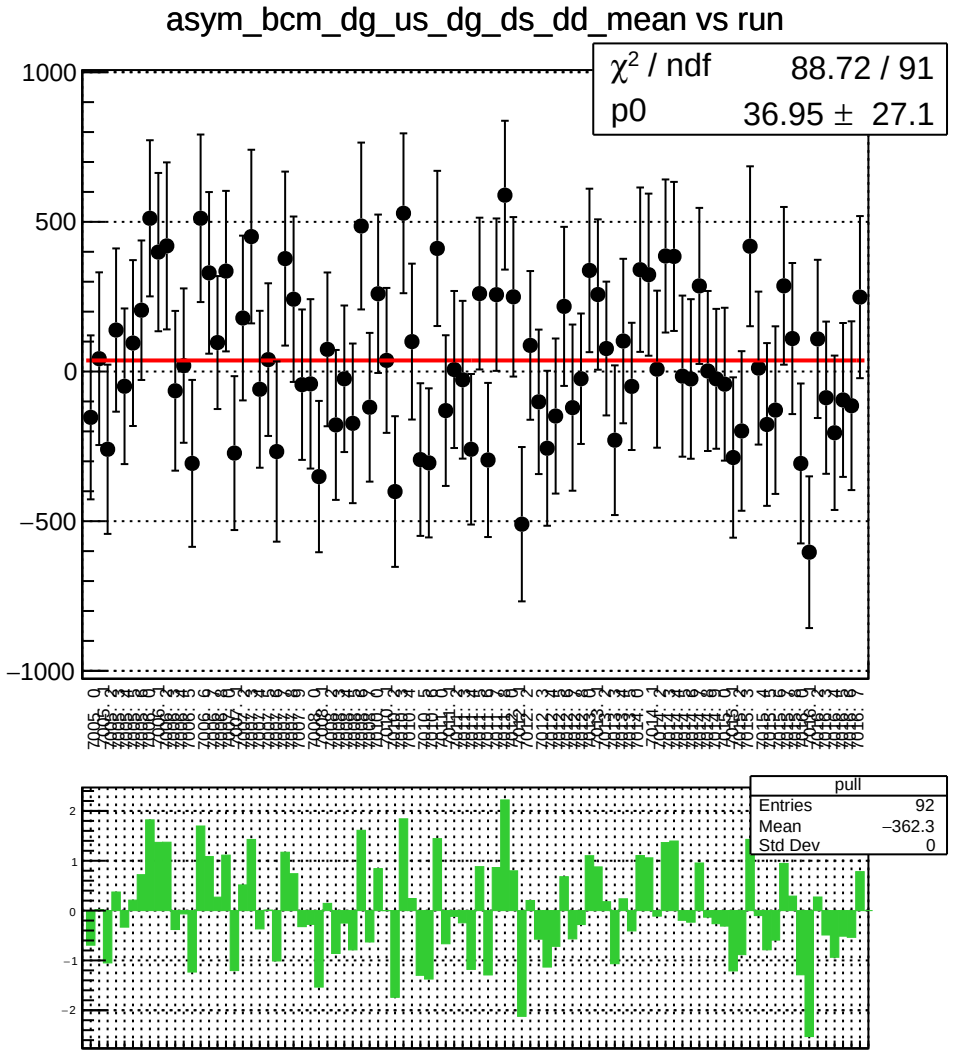

asym_bcm_an_us_an_ds3_dd_mean vs run
$\chi^2$ / ndf 82.39 / 91
p0 5.333 ± 12.42
800
600
400
200
0
−200
−400
pull
Entries 92
Mean −221.9
Std Dev 0
3
2
1
0
−1
−2

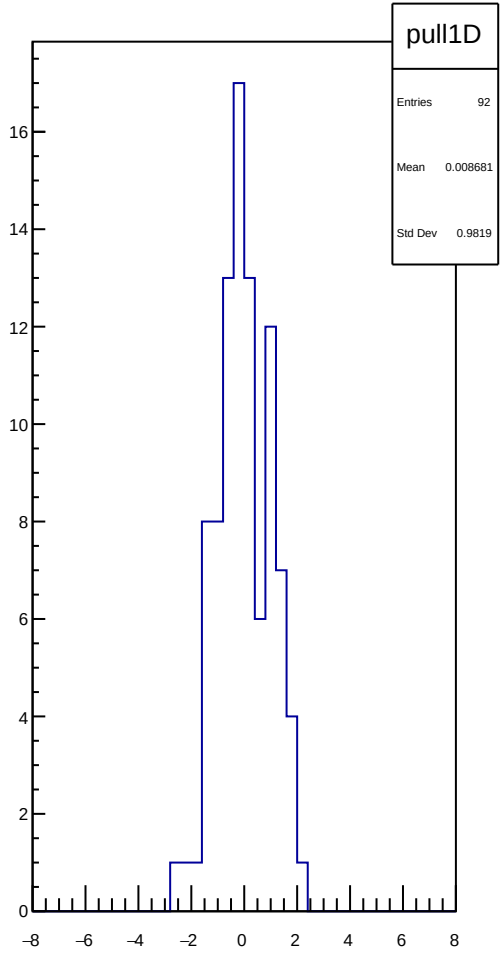

pull1D
Entries 92
Mean 0.005924
Std Dev 0.9463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

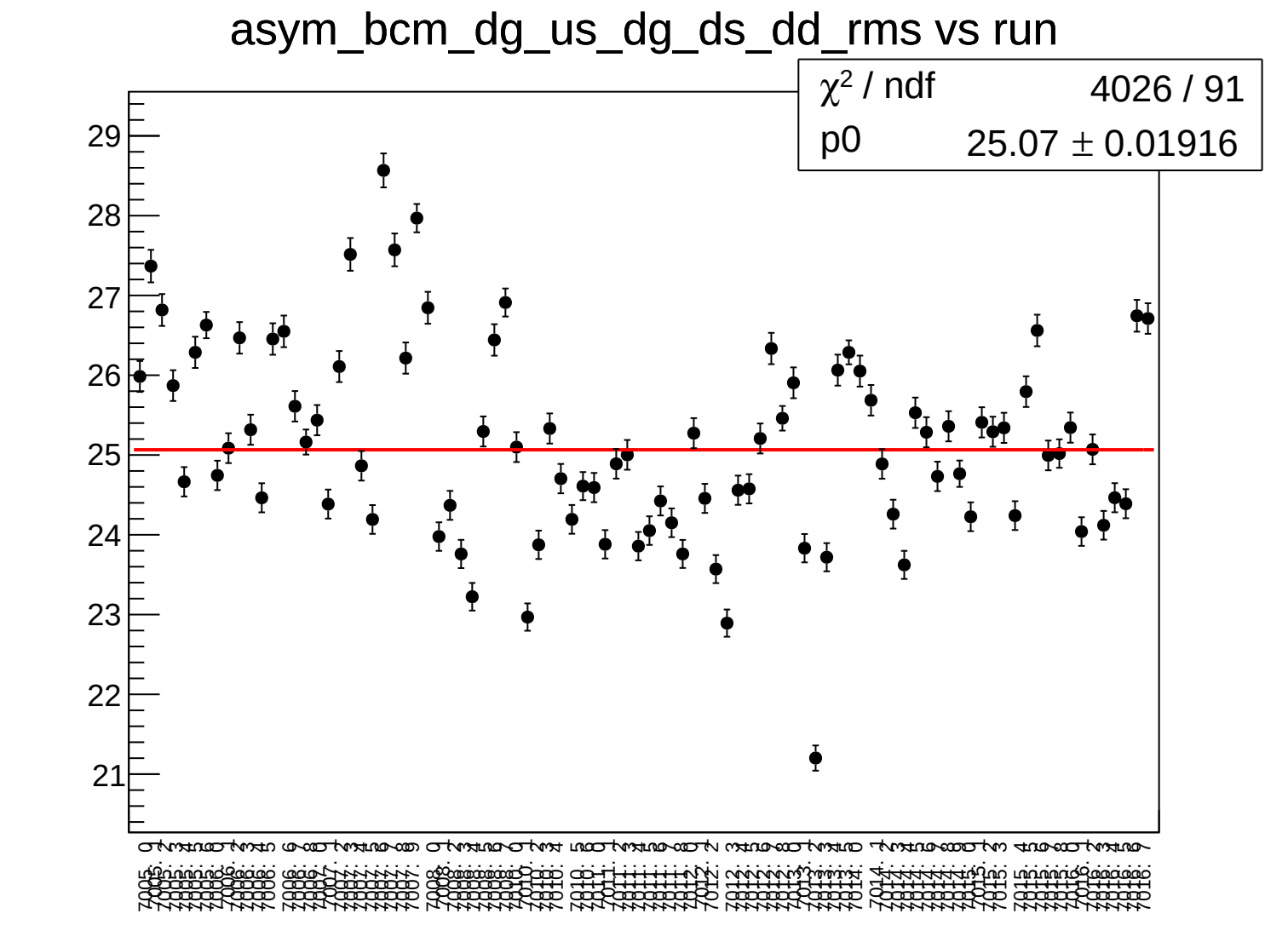

asym_bcm_an_us_an_ds3_dd_rms vs run
$\chi^2$ / ndf 6.736e+04 / 91
p0 11.28 ± 0.008783
17
16
15
14
13
12
11
10
9

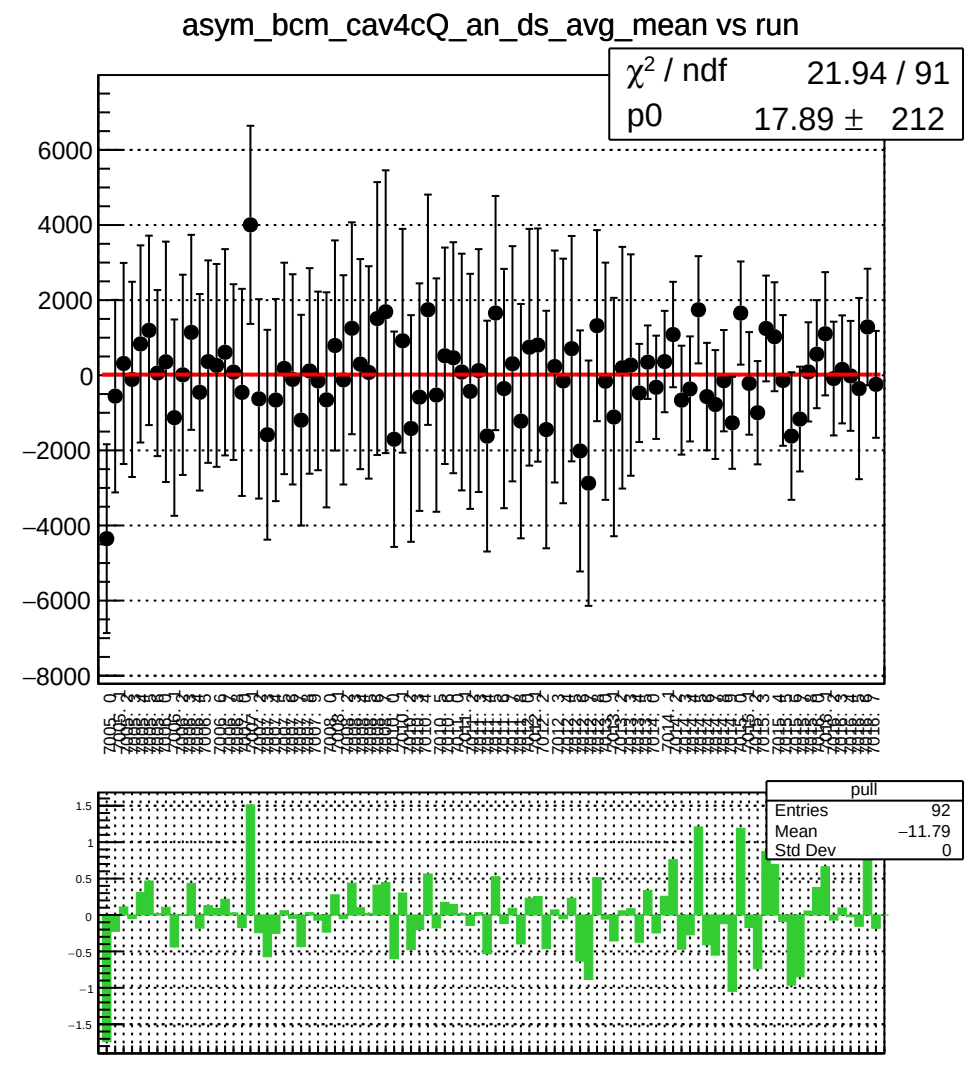

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 19.29 / 91
p0 60.15 ± 205.8
pull
Entries 92
Mean 383.7
Std Dev 0
pull1D
Entries 92
Mean −0.0005338
Std Dev 0.4579

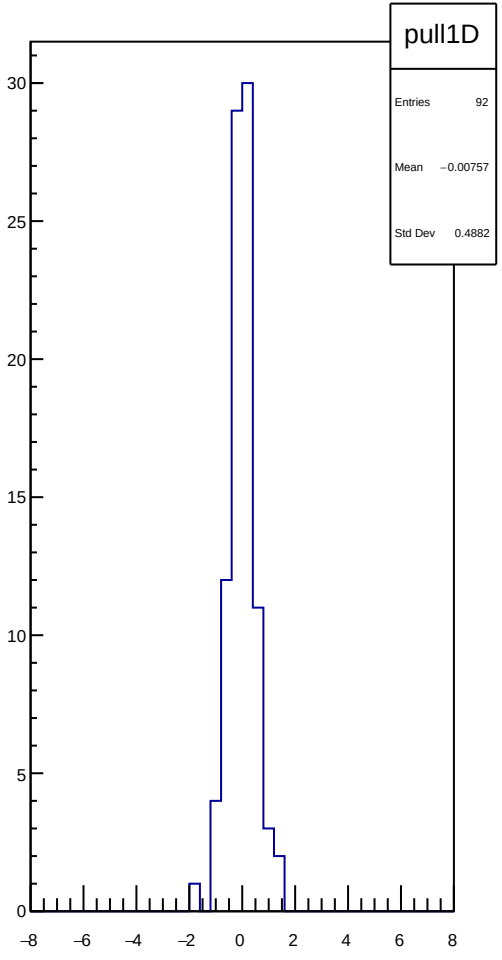

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 2.325e+05 / 91
p0 177.2 ± 0.1455
400
350
300
250
200
150
100

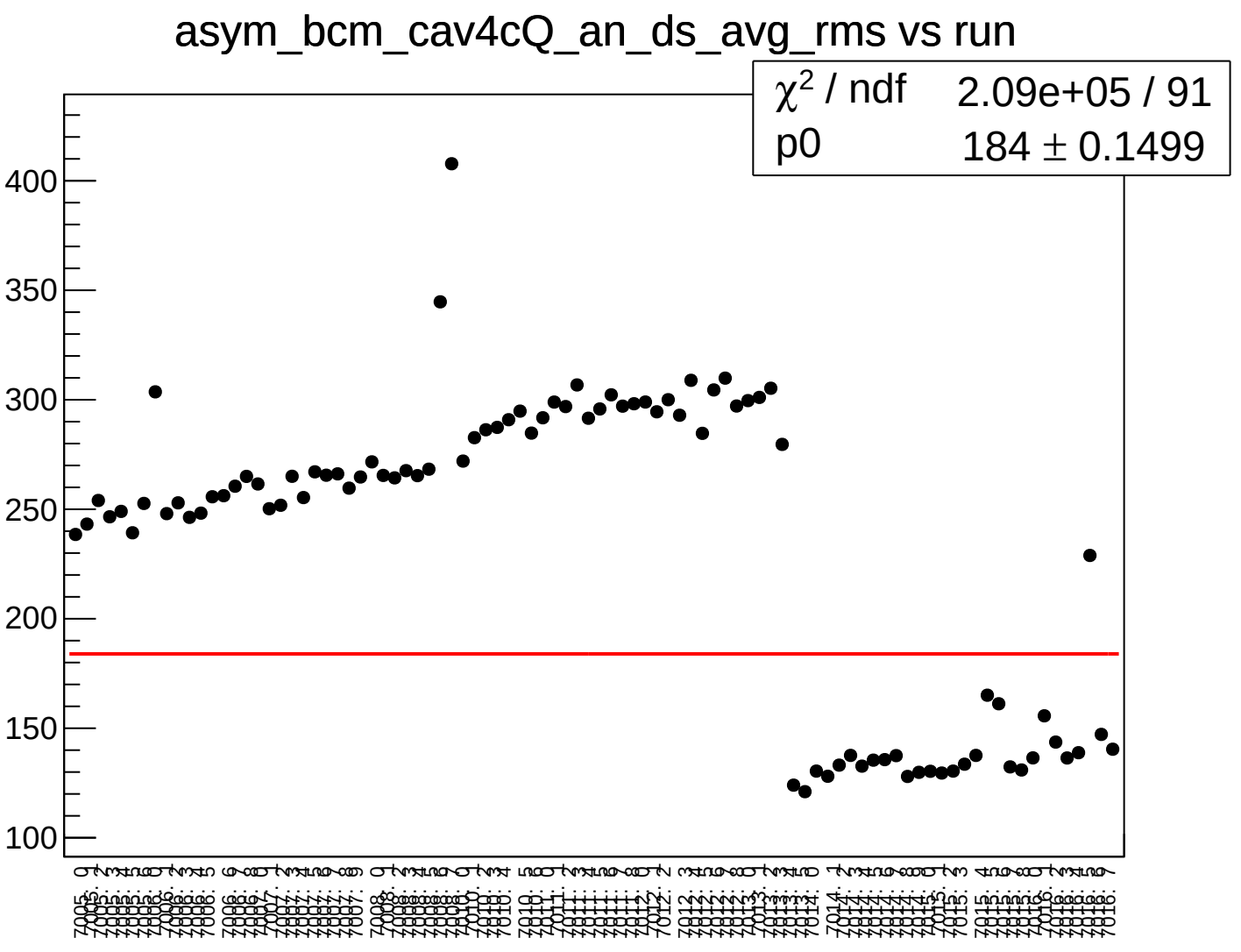

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 88.72 / 91
p0 36.95 ± 27.1
1000
500
0
−500
−1000
pull
Entries 92
Mean −362.3
Std Dev 0
2
1
0
−1
−2

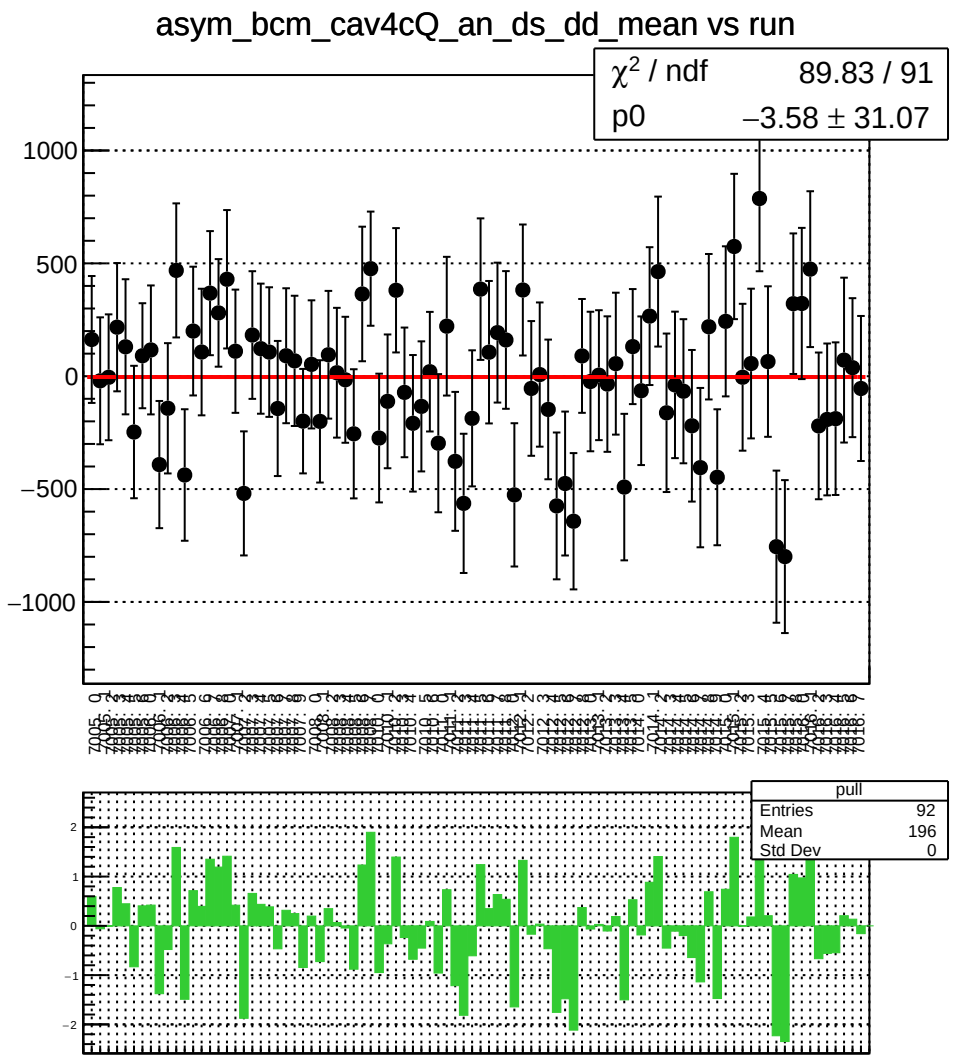

pull1D
Entries 92
Mean 0.008681
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

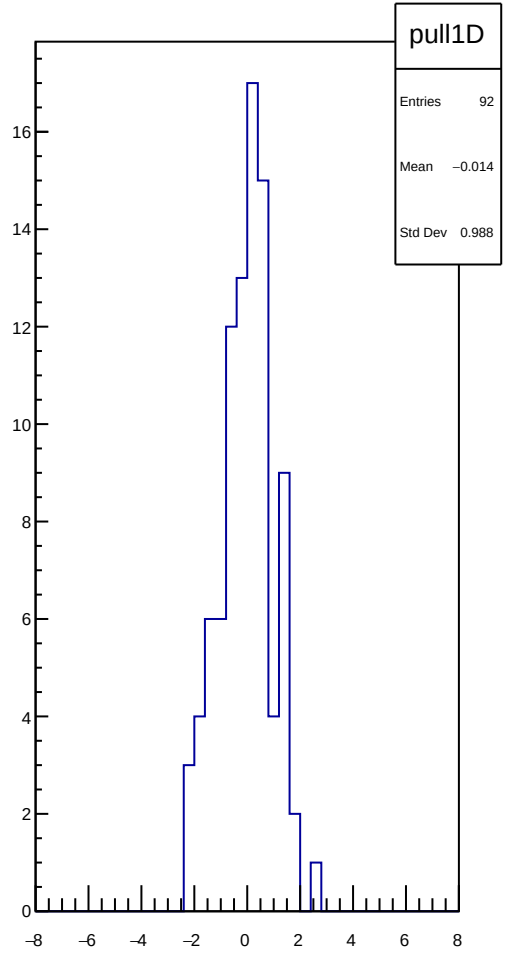

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 4026 / 91
p0 25.07 ± 0.01916
29
28
27
26
25
24
23
22
21

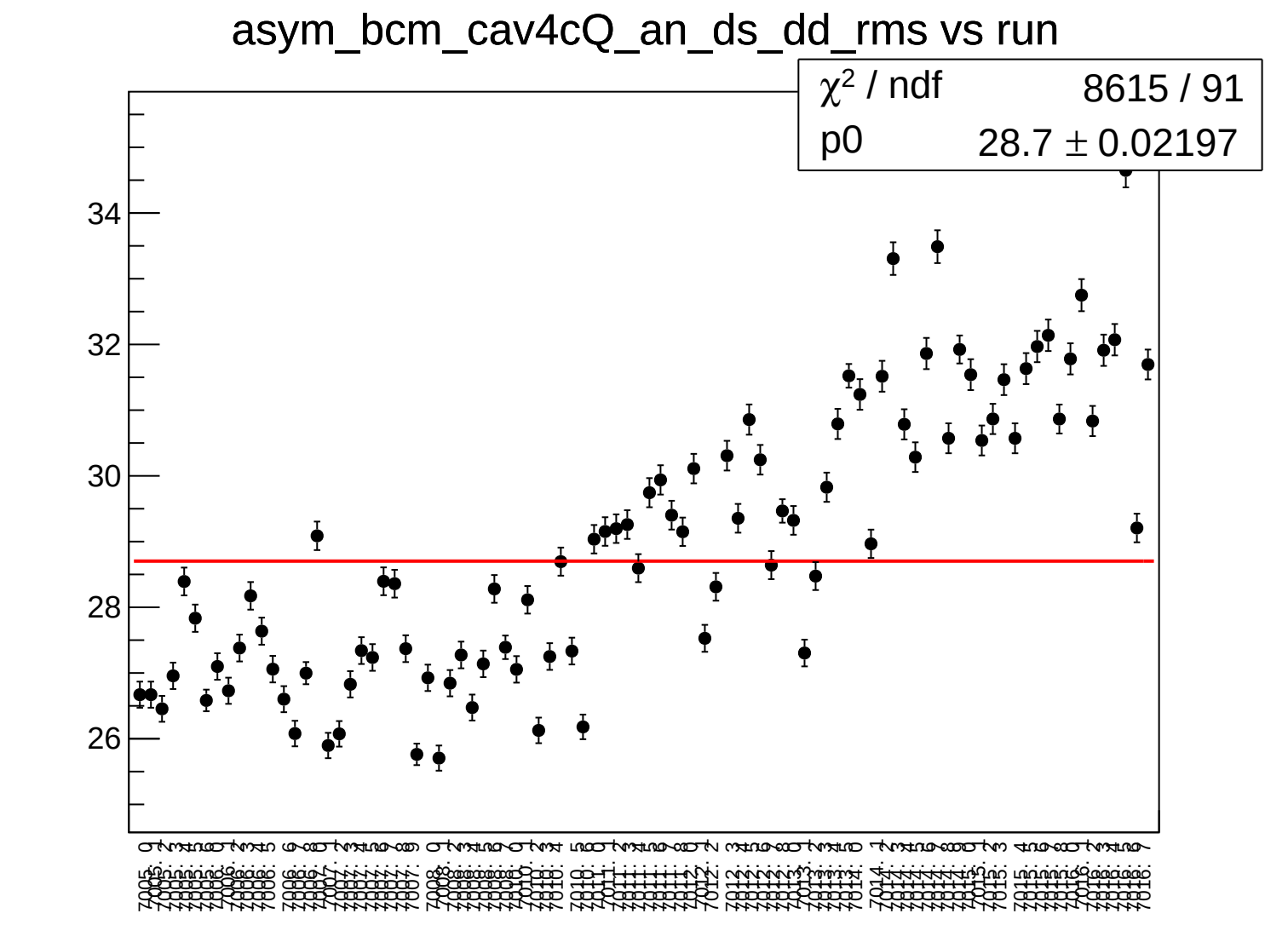

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 21.94 / 91
p0 17.89 ± 212
pull
Entries 92
Mean −11.79
Std Dev 0

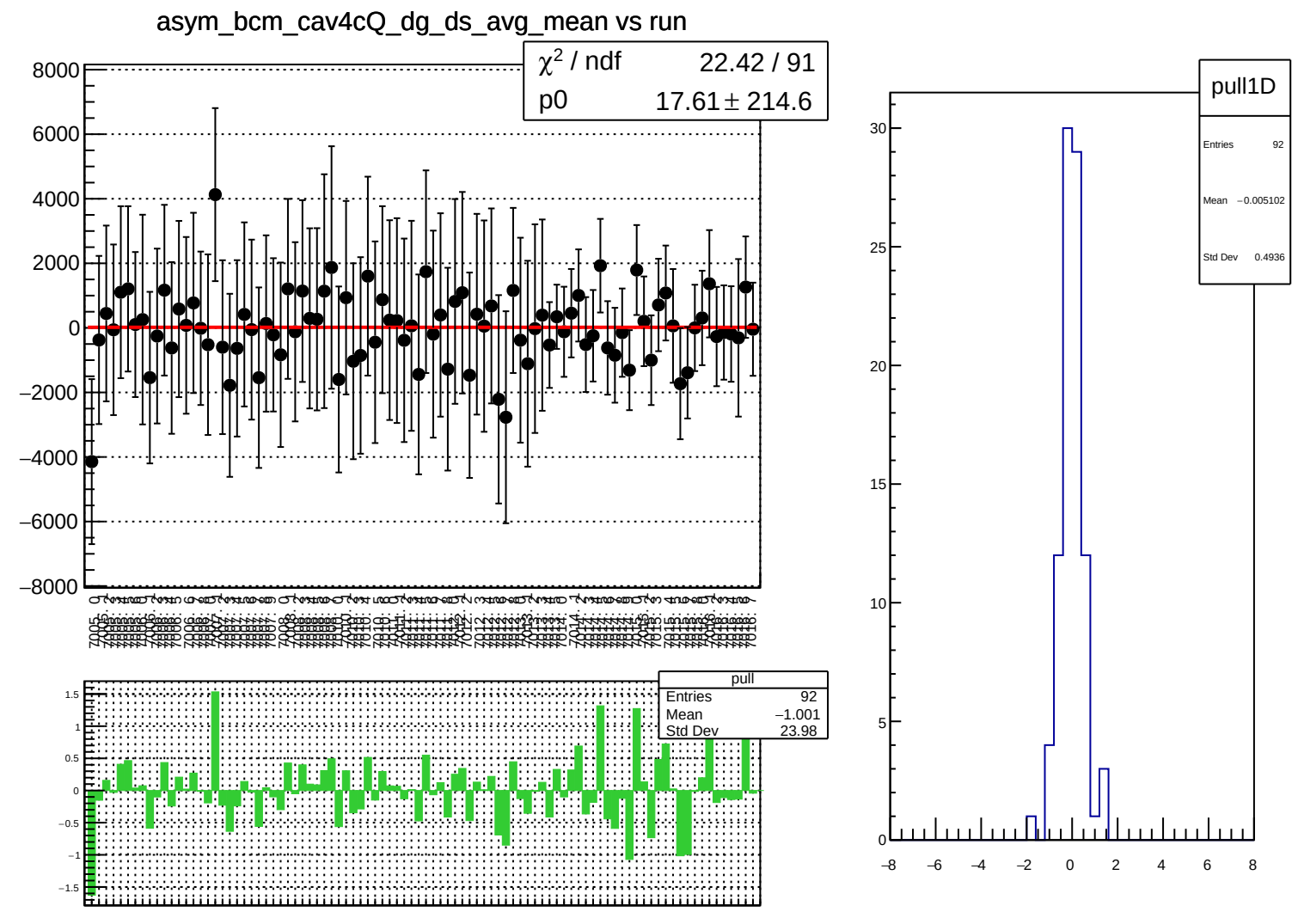

pull1D
Entries 92
Mean −0.00757
Std Dev 0.4882

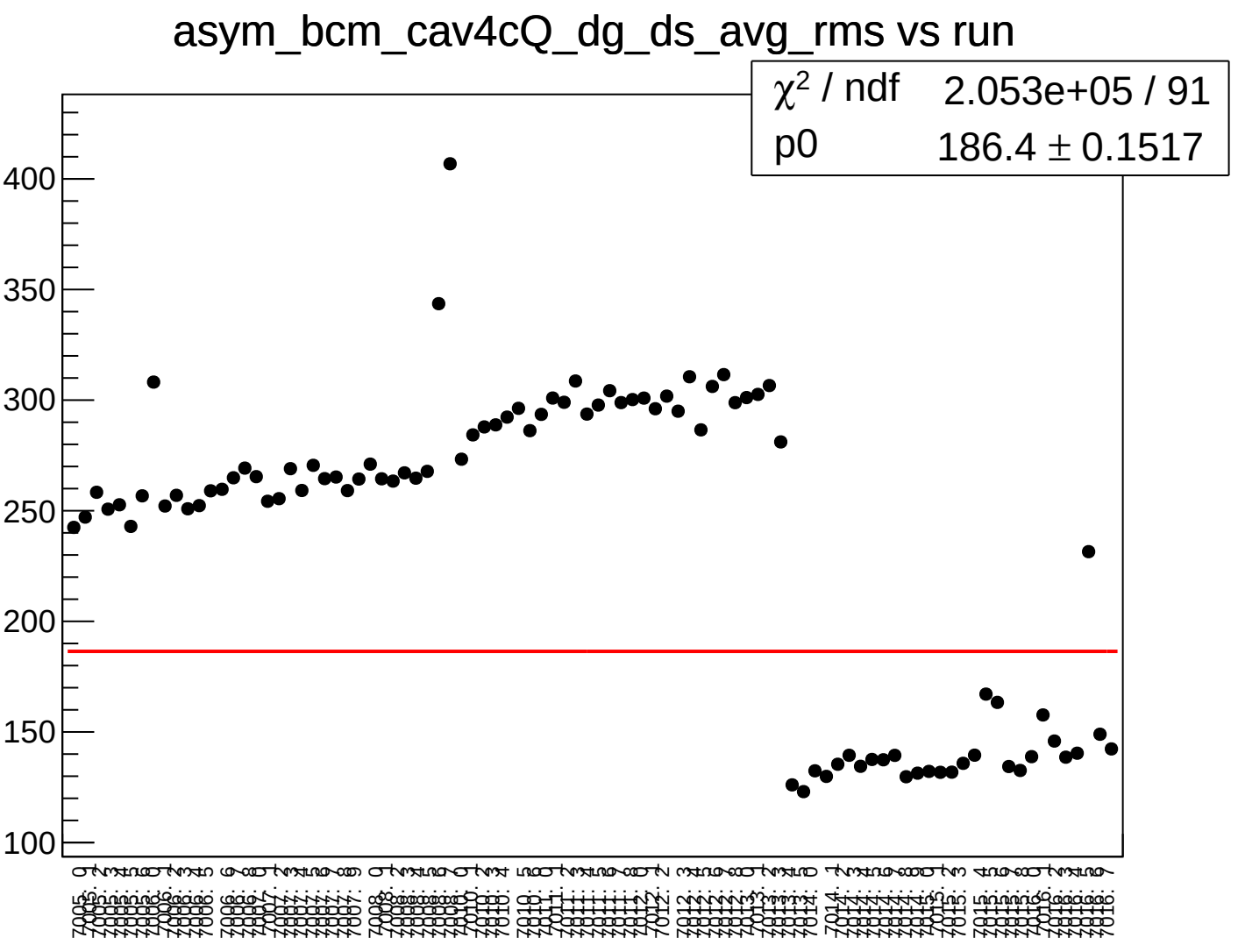

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 2.09e+05 / 91
p0 184 ± 0.1499
400
350
300
250
200
150
100

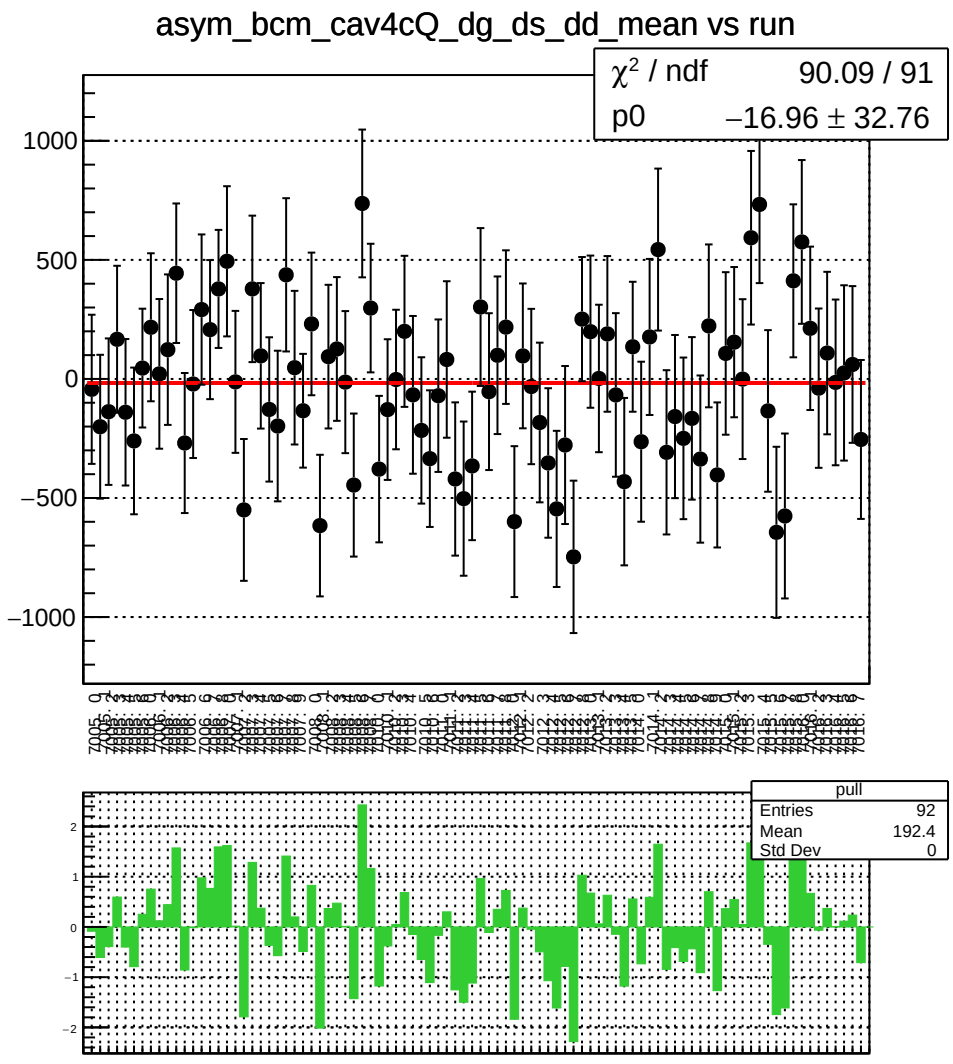

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 89.83 / 91
p0 −3.58 ± 31.07
1000
500
0
−500
−1000
pull
Entries 92
Mean 196
Std Dev 0
2
1
0
−1
−2

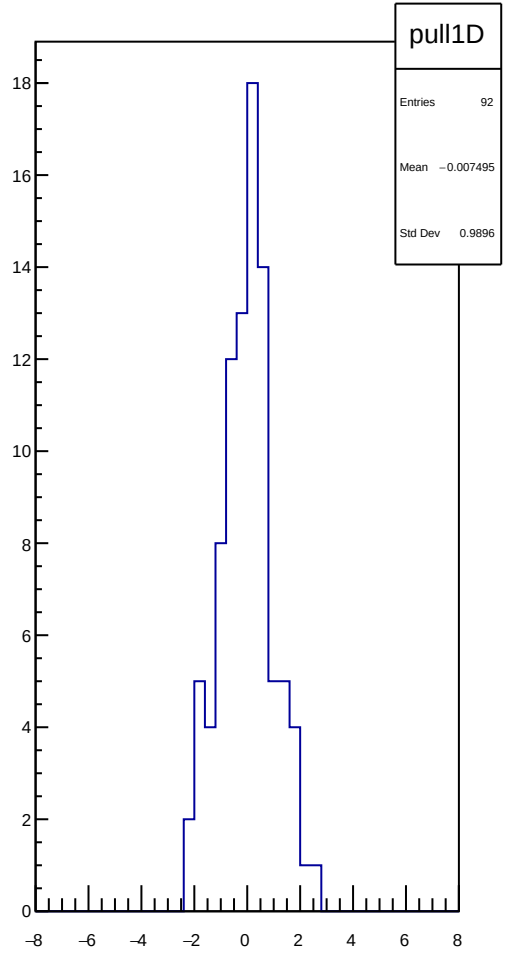

pull1D
Entries 92
Mean −0.014
Std Dev 0.988
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

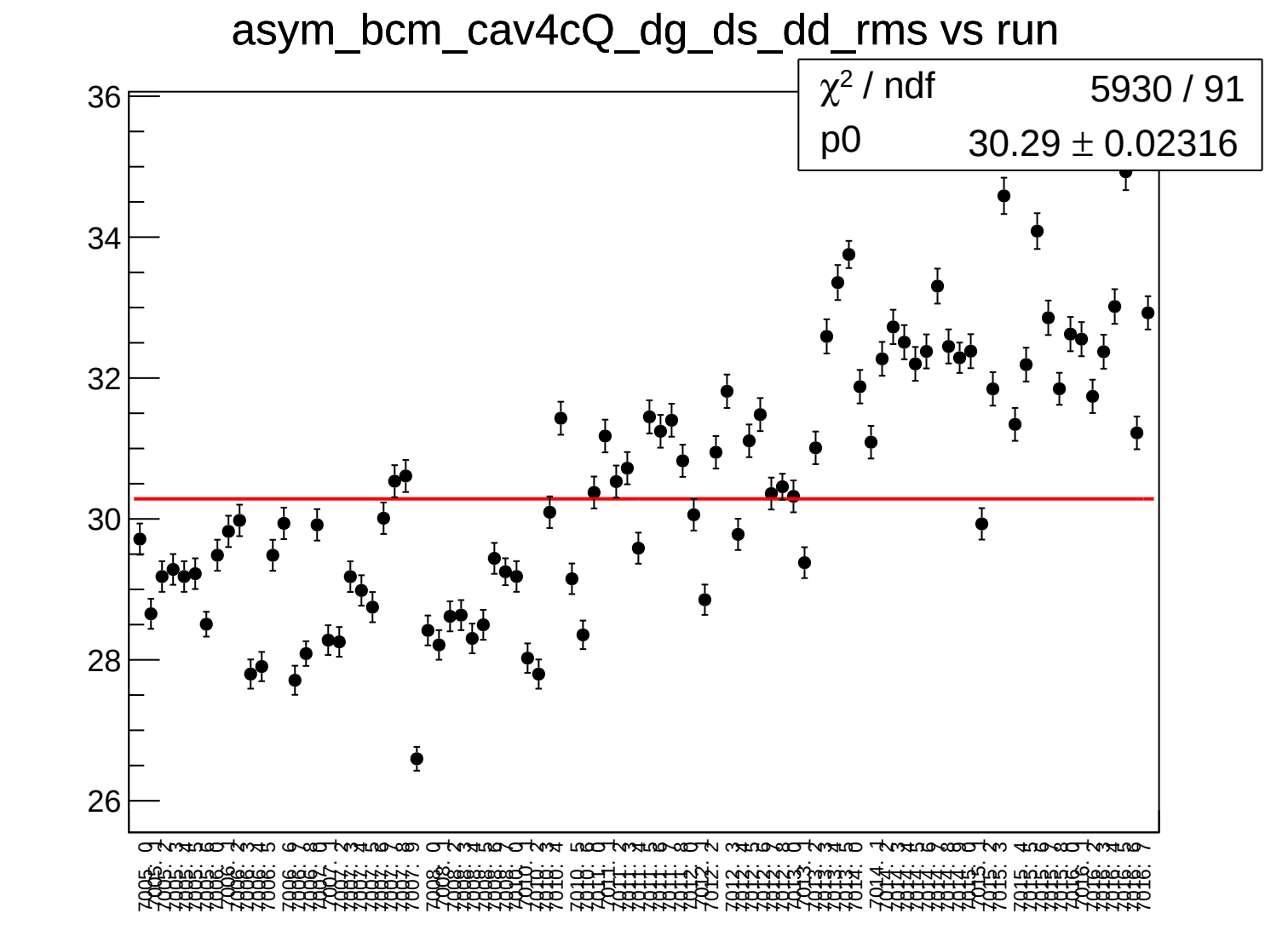

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 8615 / 91
p0 28.7 ± 0.02197
34
32
30
28
26

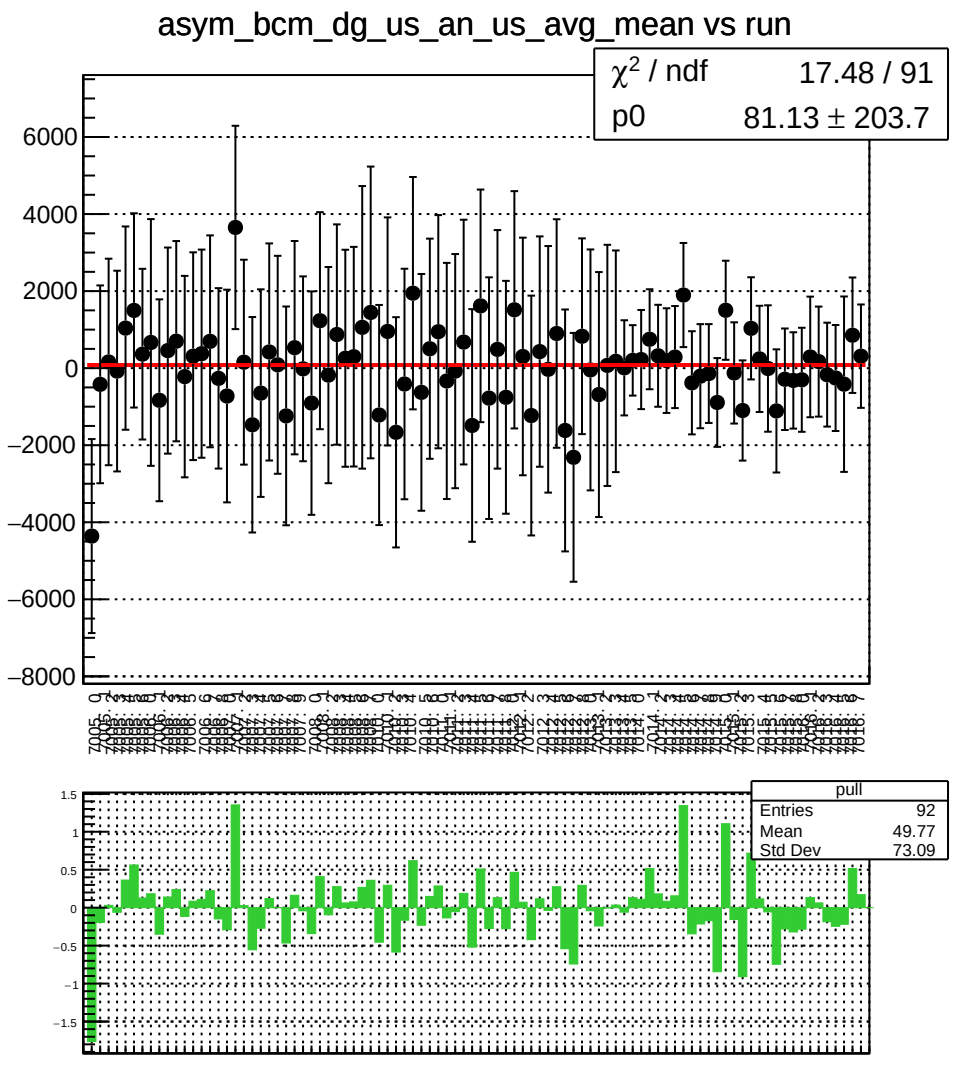

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 22.42 / 91
p0 17.61 ± 214.6
pull
Entries 92
Mean −1.001
Std Dev 23.98
pull1D
Entries 92
Mean −0.005102
Std Dev 0.4936

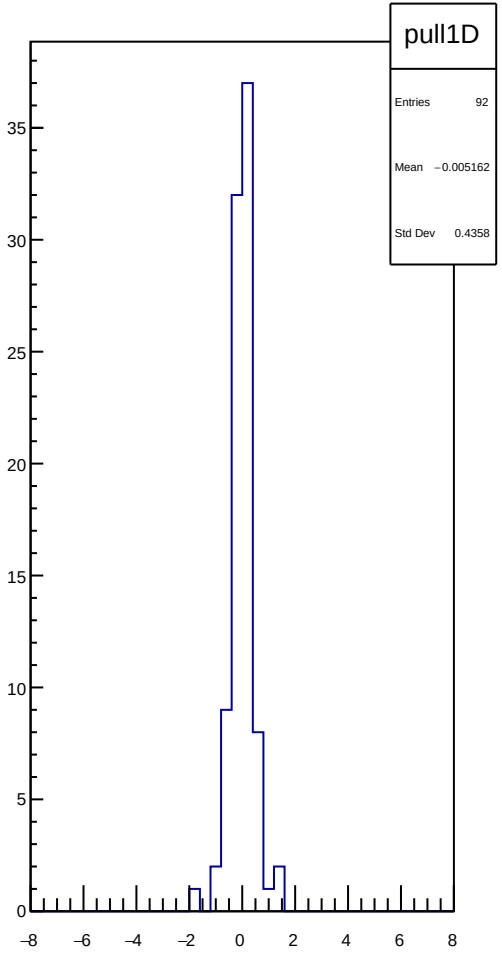

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 2.053e+05 / 91
p0 186.4 ± 0.1517
400
350
300
250
200
150
100

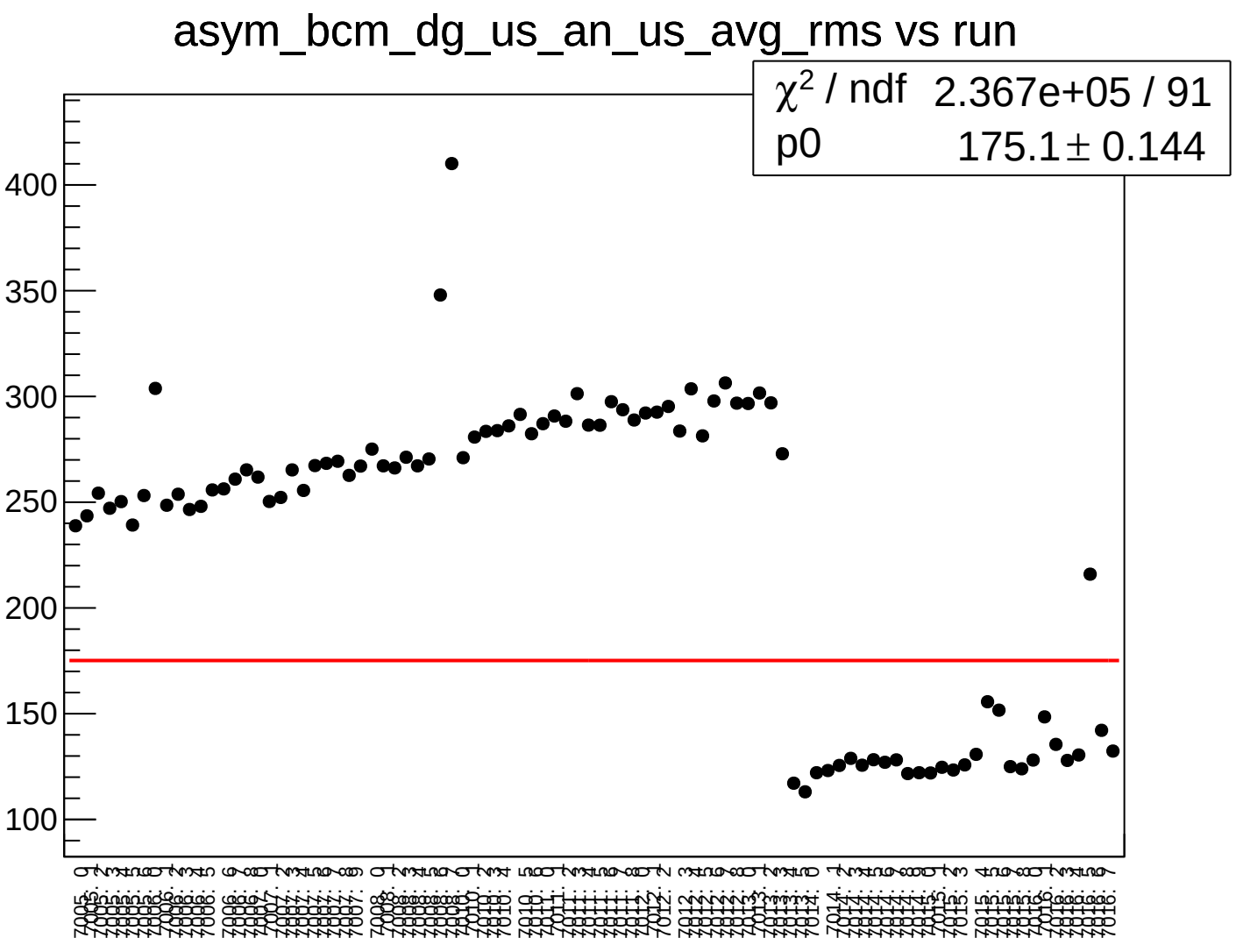

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 90.09 / 91
p0 −16.96 ± 32.76
1000
500
0
−500
−1000
pull
Entries 92
Mean 192.4
Std Dev 0
2
1
0
−1
−2

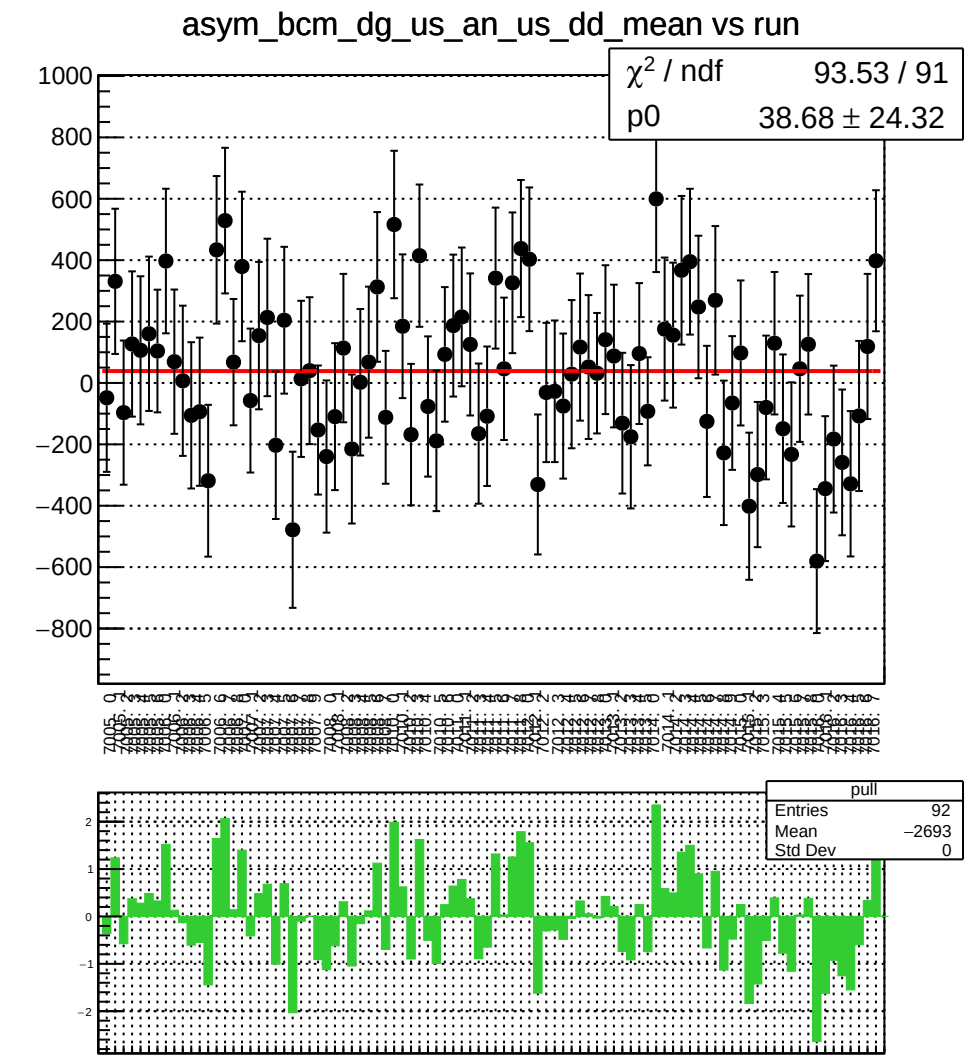

pull1D
Entries 92
Mean −0.007495
Std Dev 0.9896
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

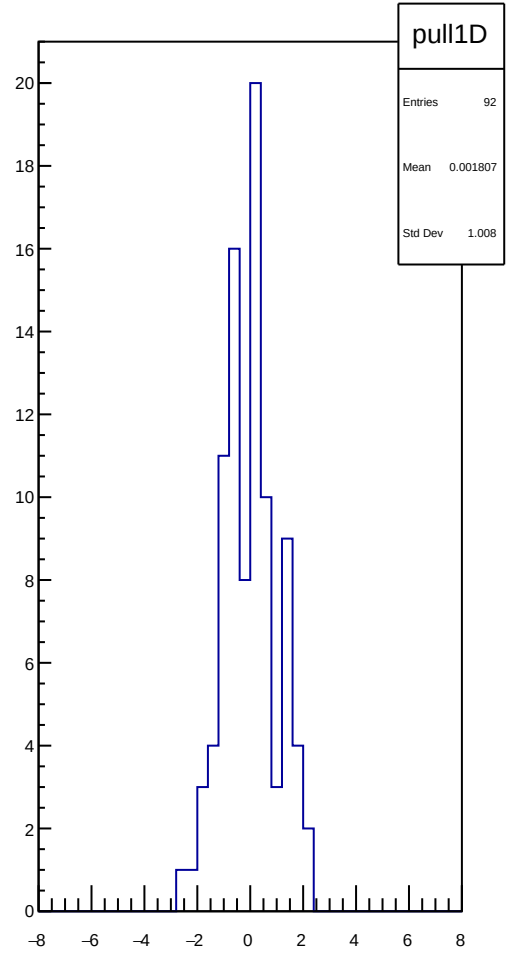

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 5930 / 91
p0 30.29 ± 0.02316
36
34
32
30
28
26

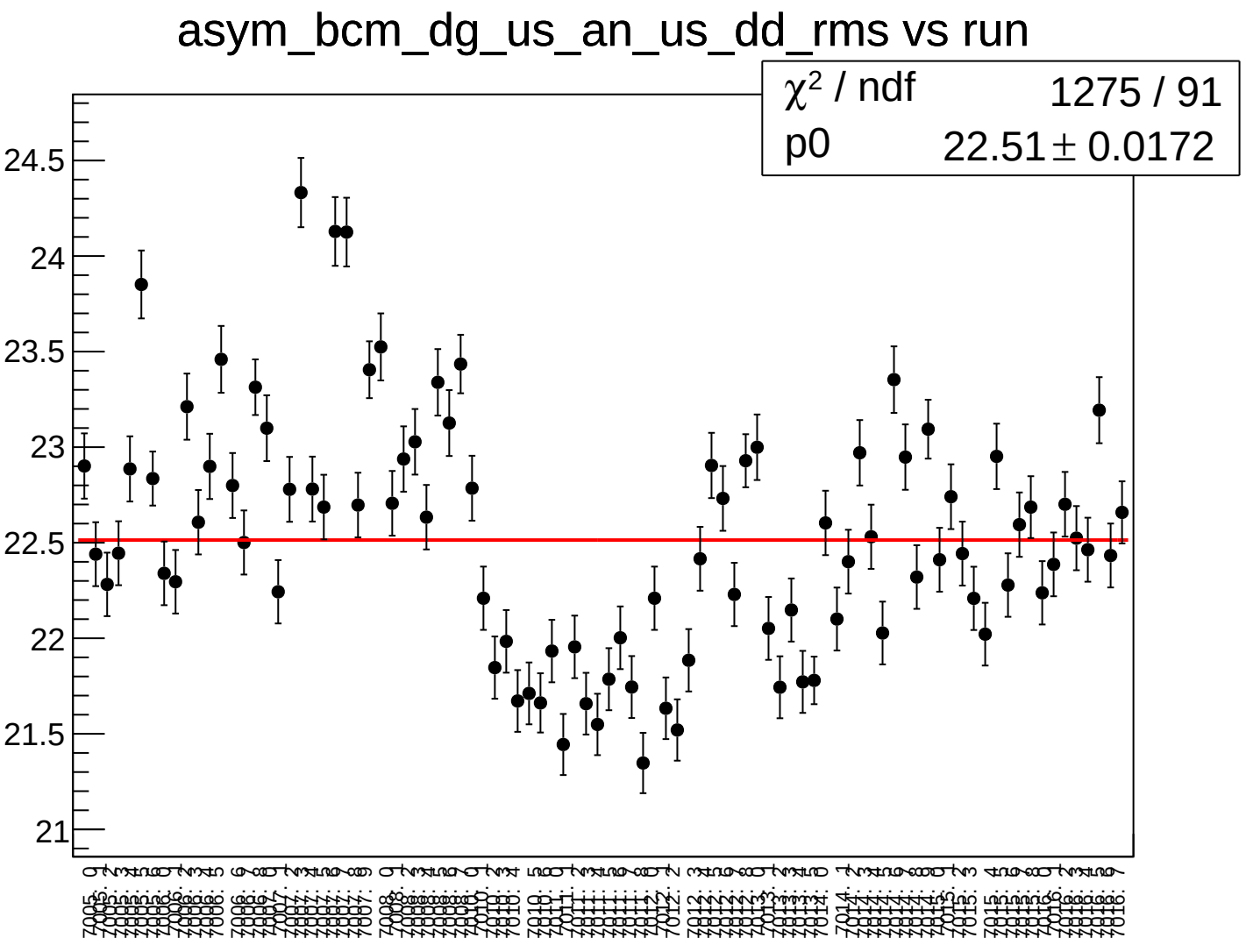

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 17.48 / 91
p0 81.13 ± 203.7
pull
Entries 92
Mean 49.77
Std Dev 73.09

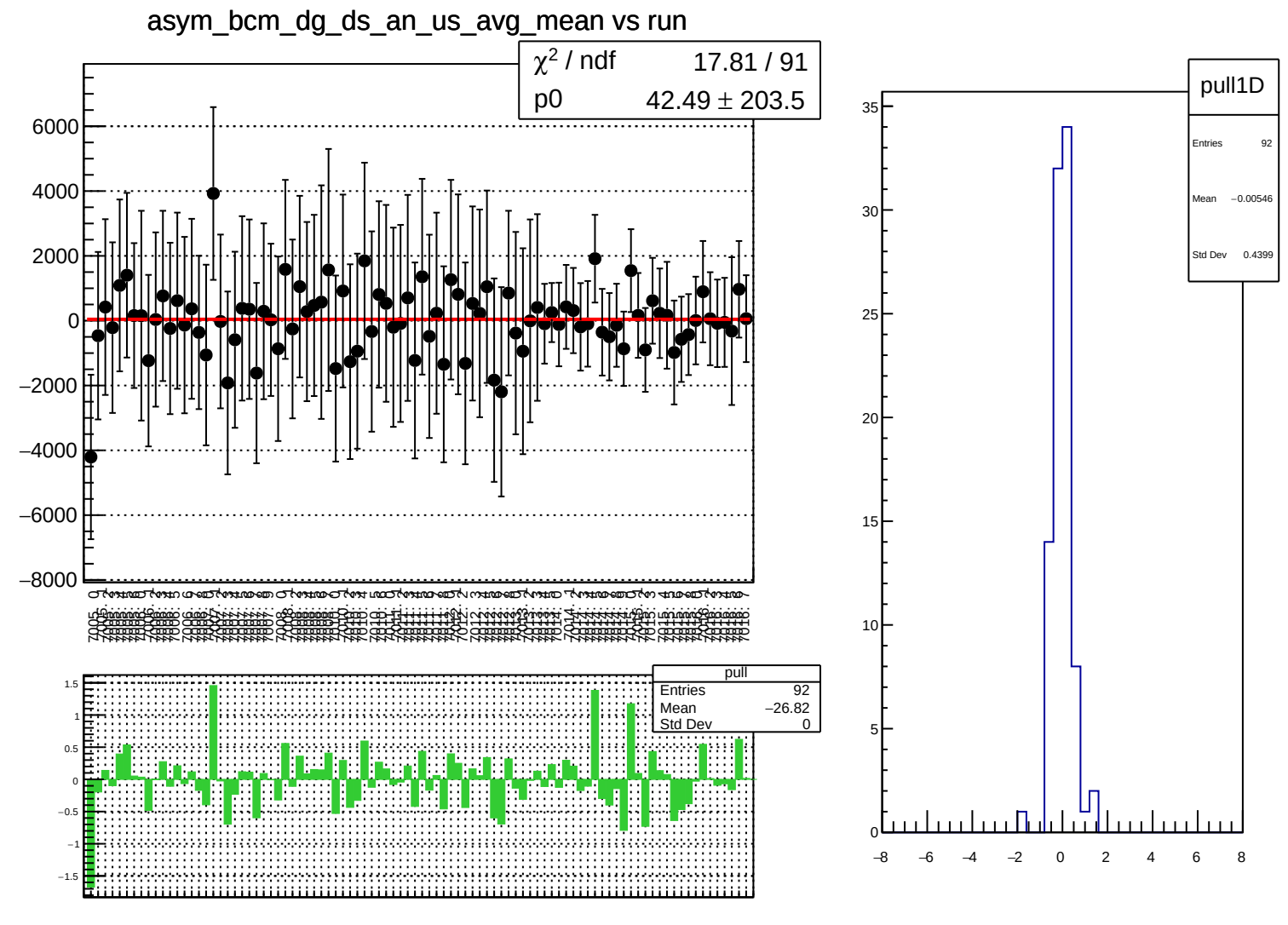

pull1D
Entries 92
Mean −0.005162
Std Dev 0.4358

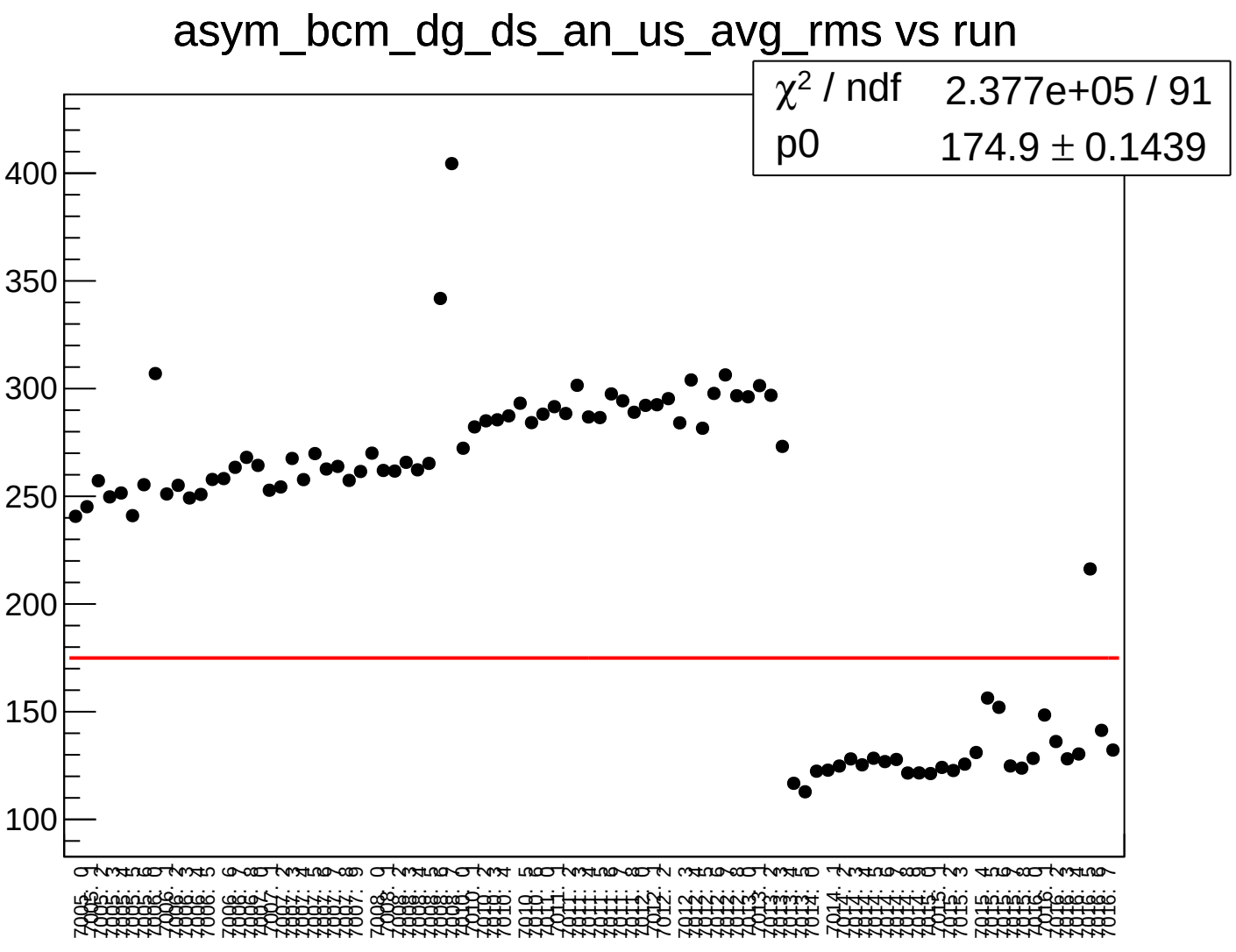

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 2.367e+05 / 91
p0 175.1 ± 0.144
400
350
300
250
200
150
100

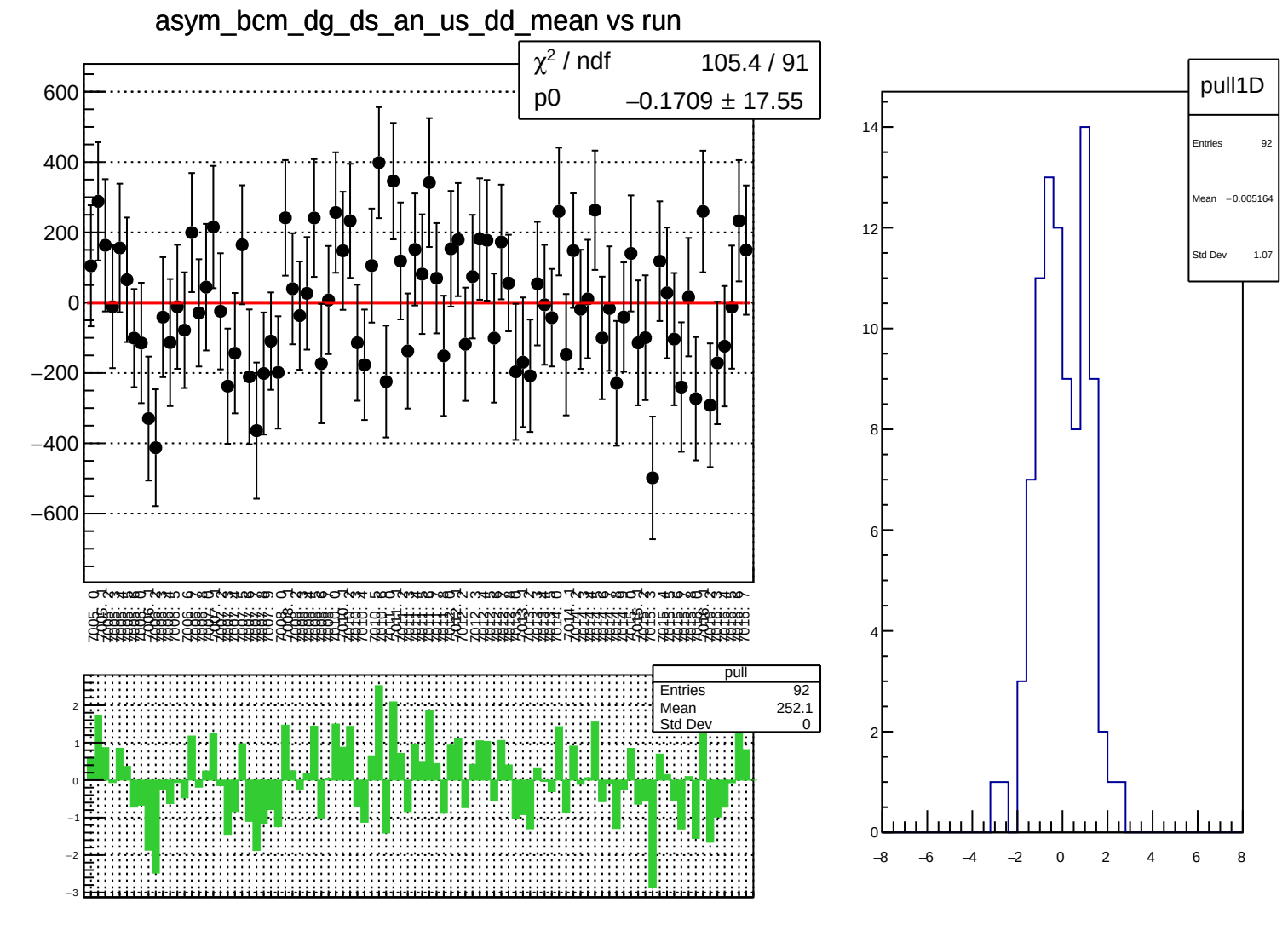

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 93.53 / 91
p0 38.68 ± 24.32
pull
Entries 92
Mean −2693
Std Dev 0

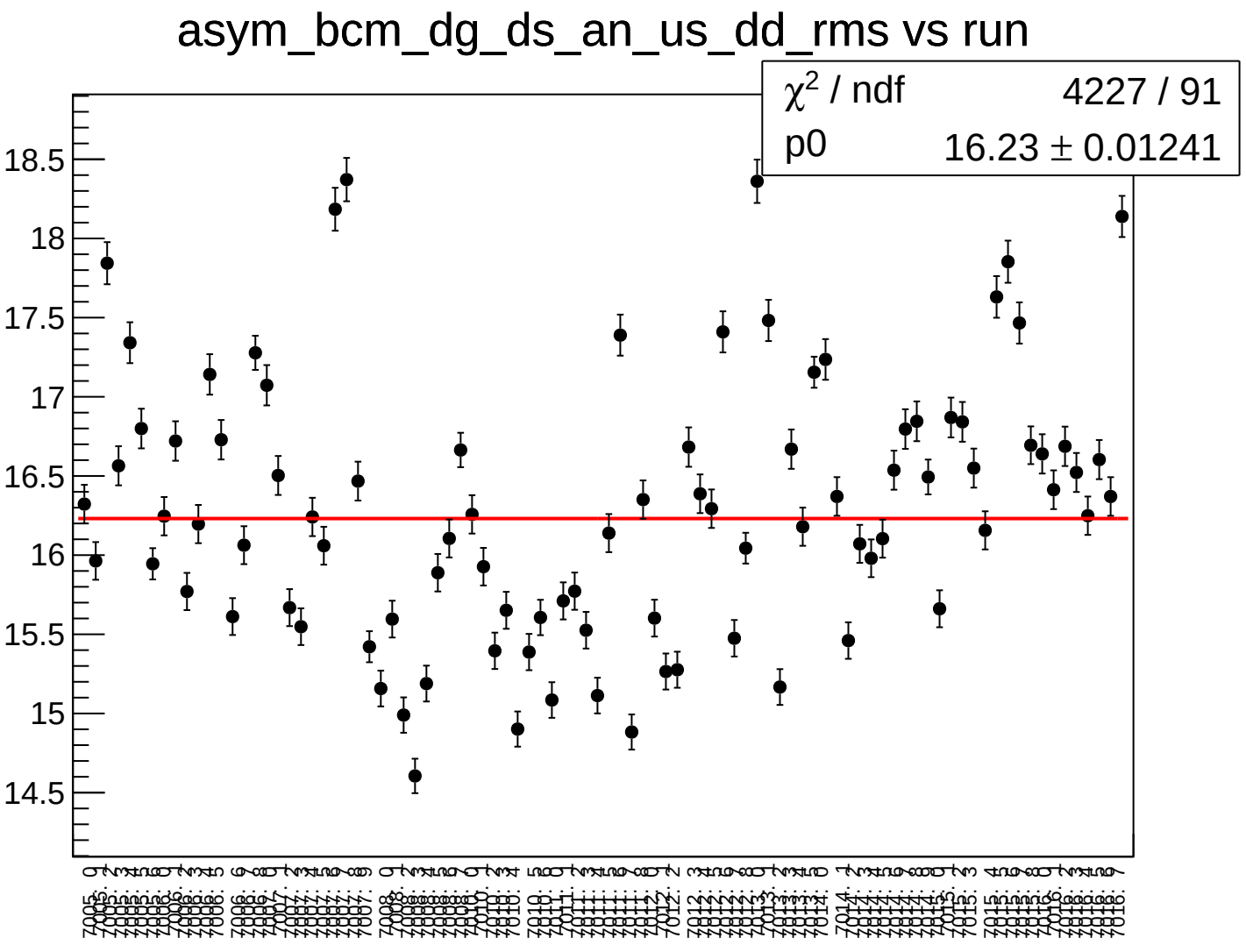

pull1D
Entries 92
Mean 0.001807
Std Dev 1.008

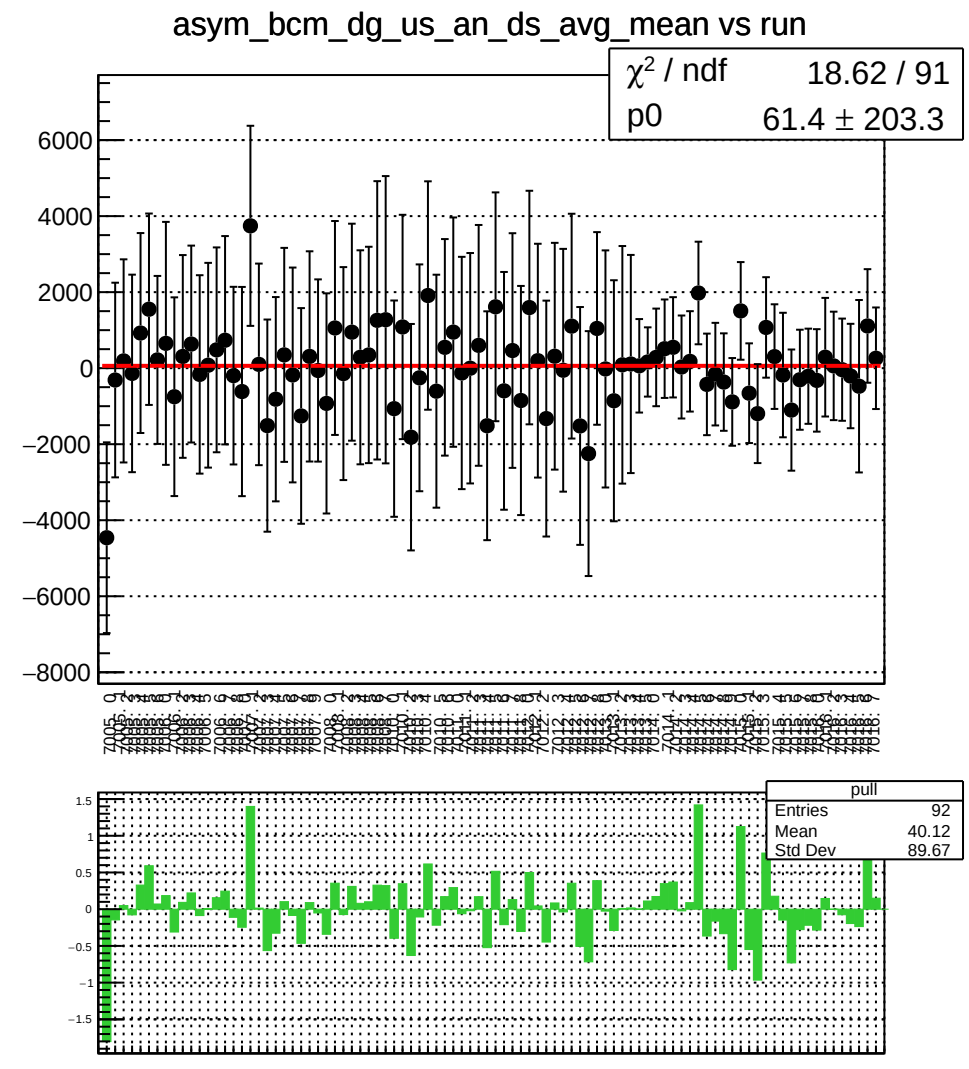

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1275 / 91
p0 22.51 ± 0.0172
24.5
24
23.5
23
22.5
22
21.5
21

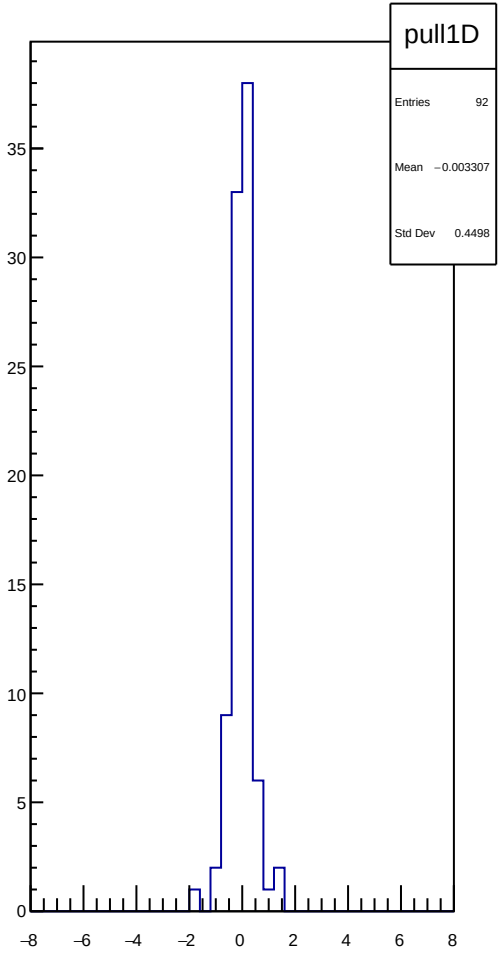

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 17.81 / 91
p0 42.49 ± 203.5
pull
Entries 92
Mean −26.82
Std Dev 0
pull1D
Entries 92
Mean −0.00546
Std Dev 0.4399

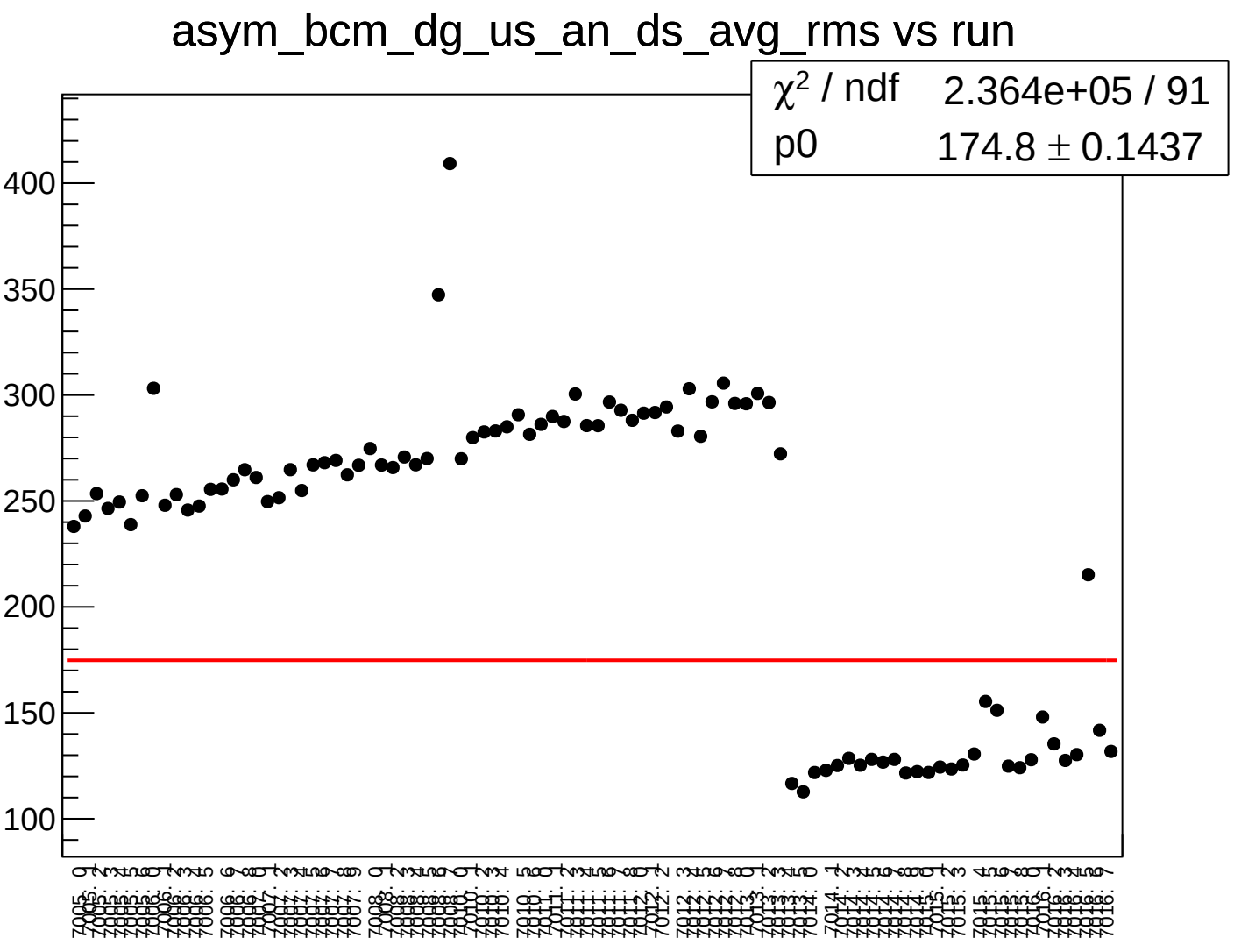

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 2.377e+05 / 91
p0 174.9 ± 0.1439
400
350
300
250
200
150
100

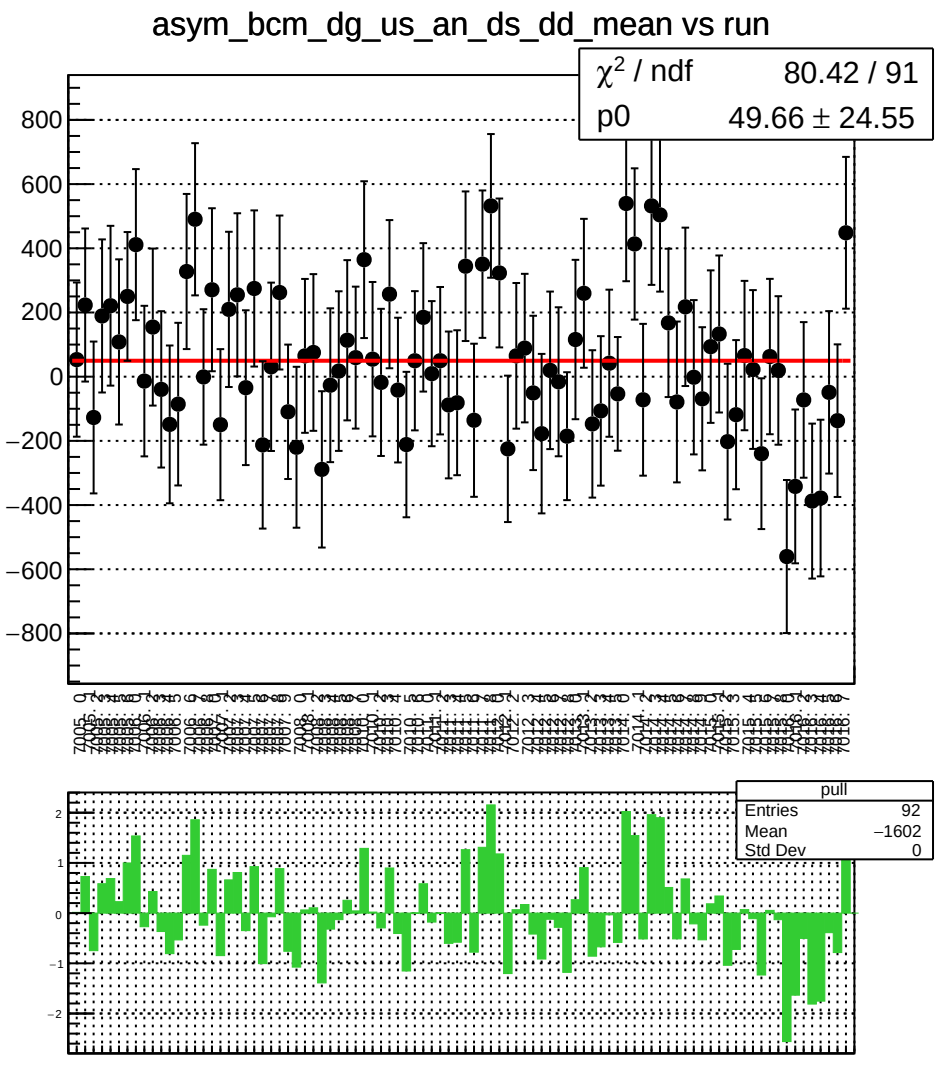

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 105.4 / 91
p0 −0.1709 ± 17.55
pull
Entries 92
Mean 252.1
Std Dev 0
pull1D
Entries 92
Mean −0.005164
Std Dev 1.07

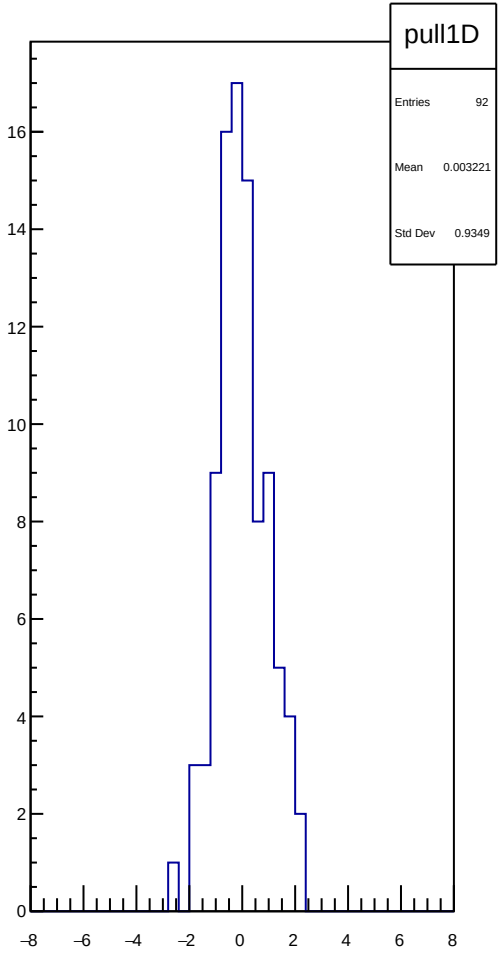

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 4227 / 91
p0 16.23 ± 0.01241
18.5
18
17.5
17
16.5
16
15.5
15
14.5

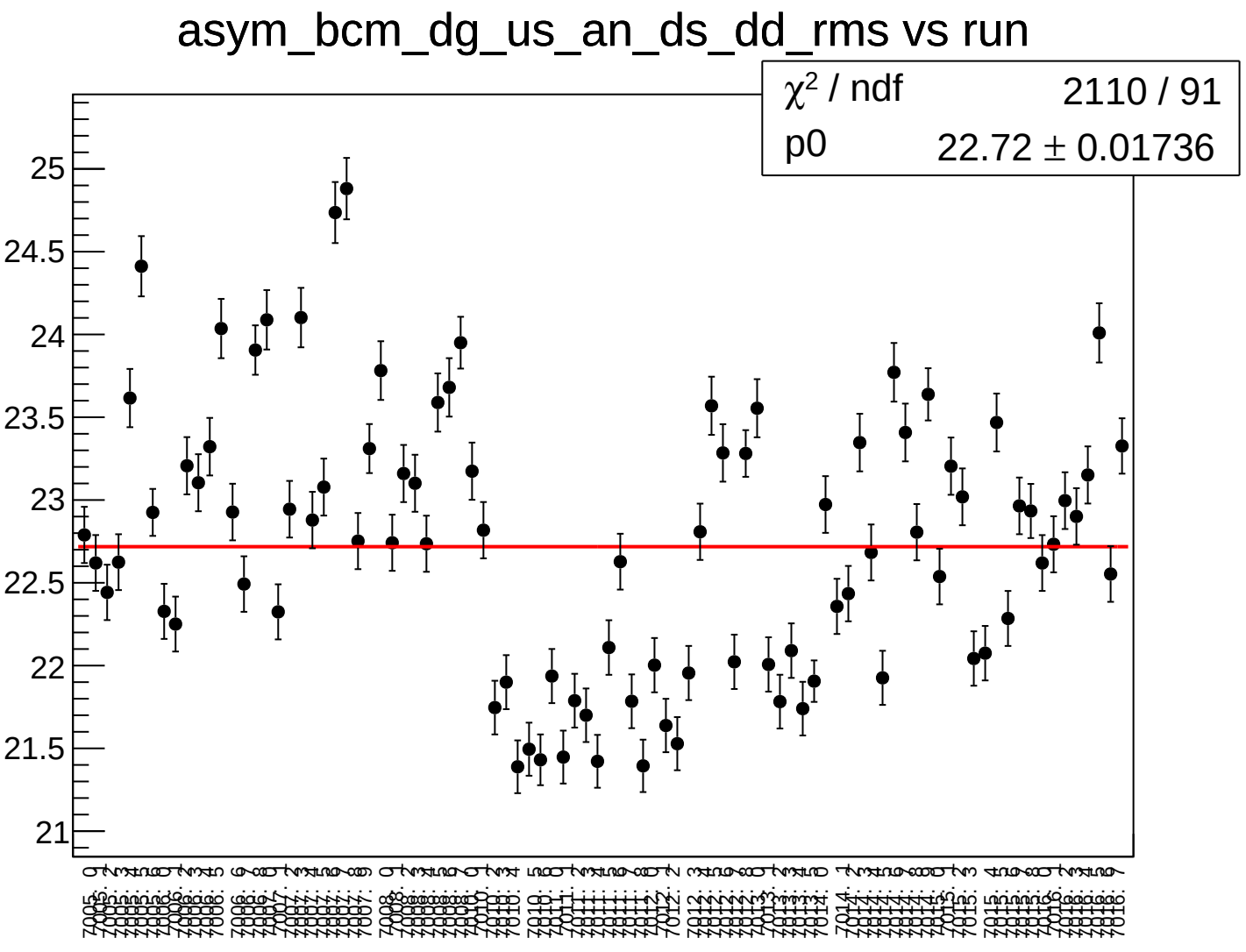

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 18.62 / 91
p0 61.4 ± 203.3
pull
Entries 92
Mean 40.12
Std Dev 89.67

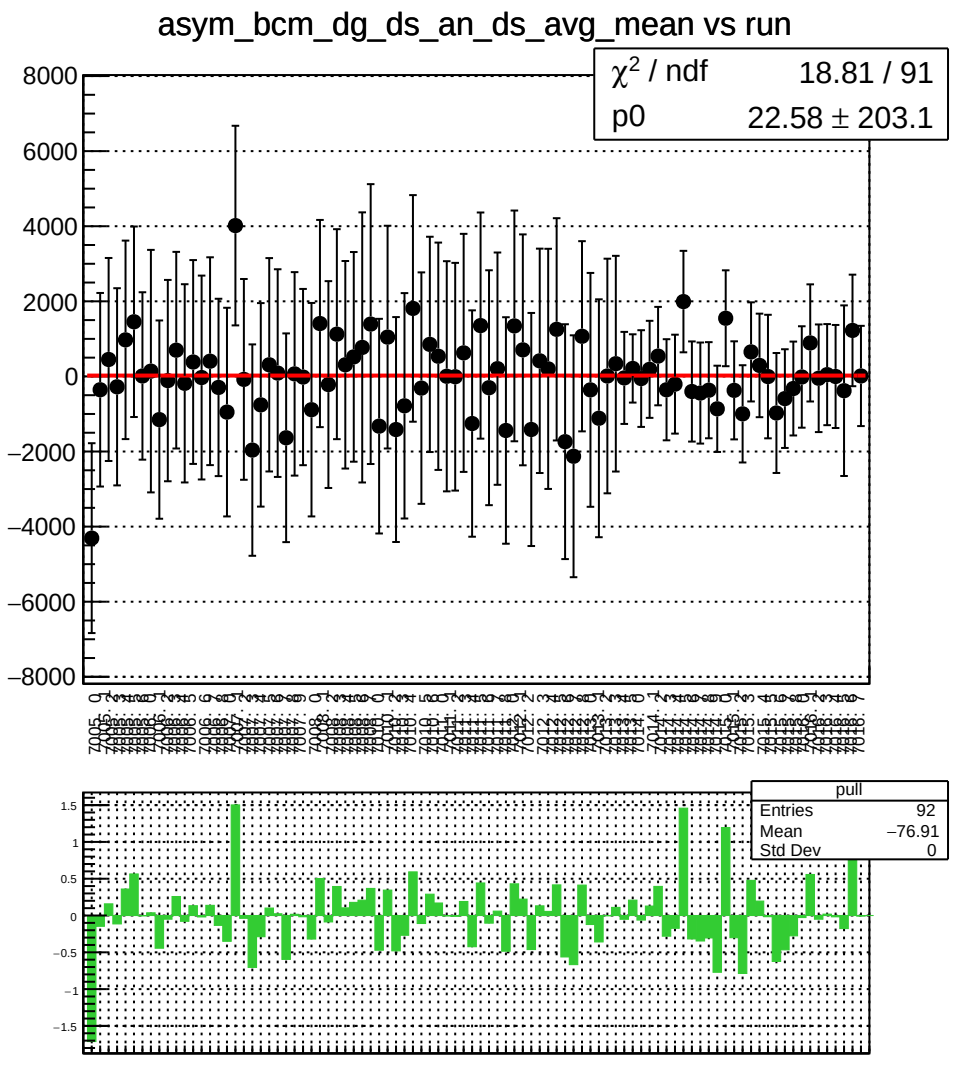

pull1D
Entries 92
Mean −0.003307
Std Dev 0.4498

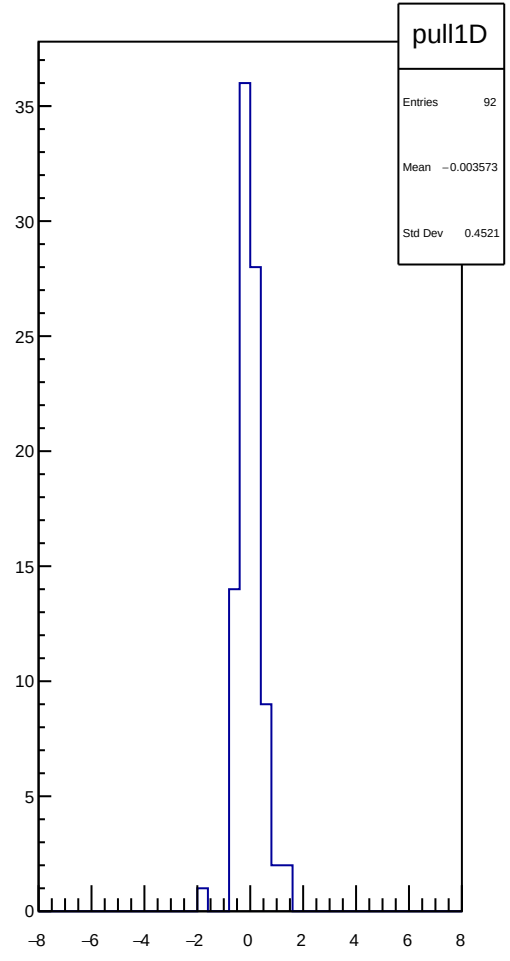

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 2.364e+05 / 91
p0 174.8 ± 0.1437
400
350
300
250
200
150
100

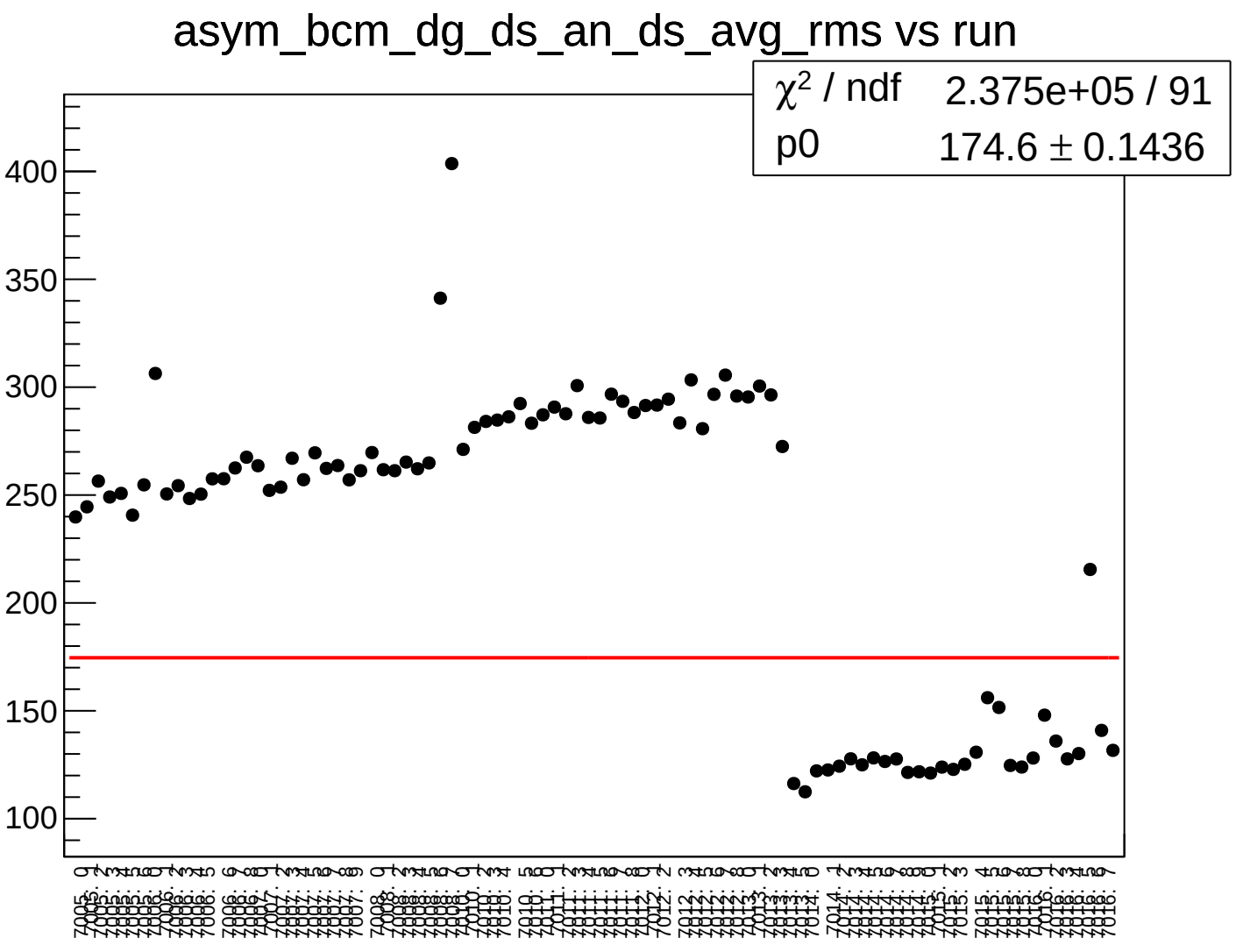

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 80.42 / 91
p0 49.66 ± 24.55
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 92
Mean −1602
Std Dev 0
2
1
0
−1
−2

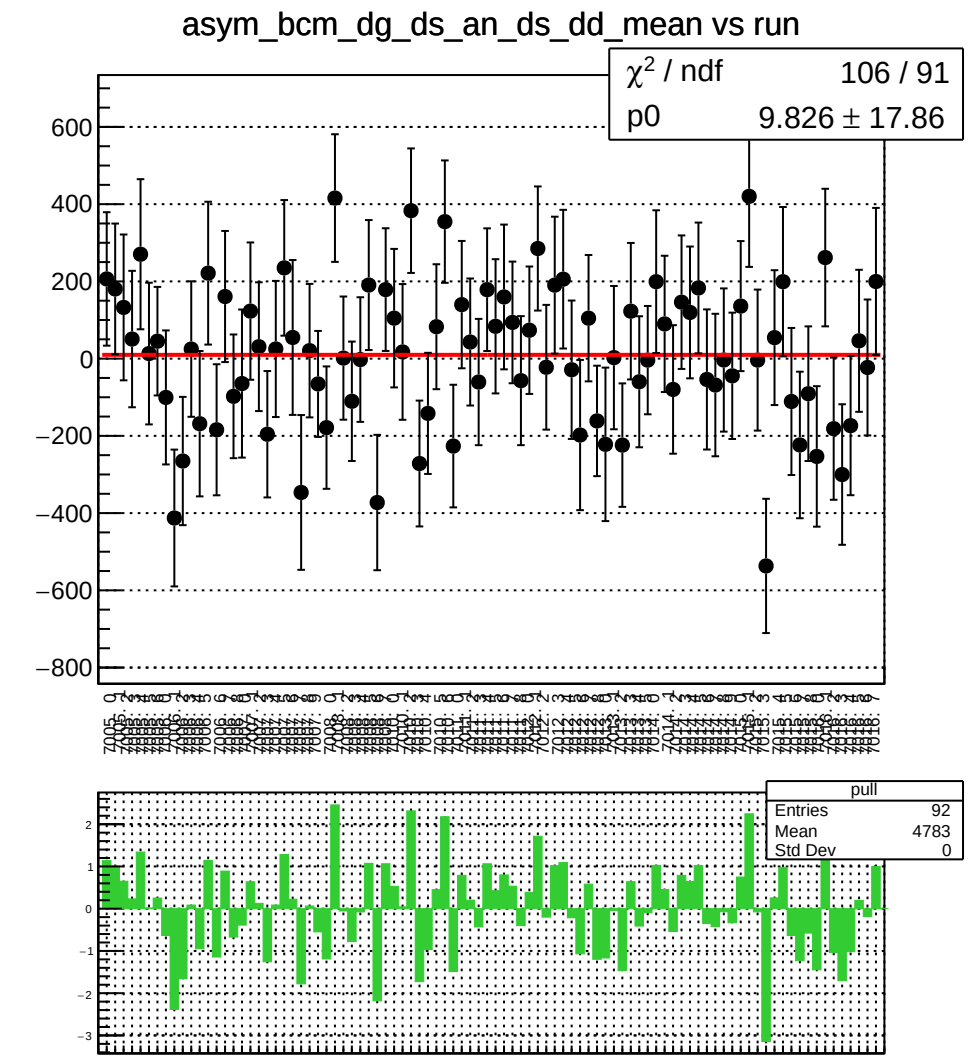

pull1D
Entries 92
Mean 0.003221
Std Dev 0.9349
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

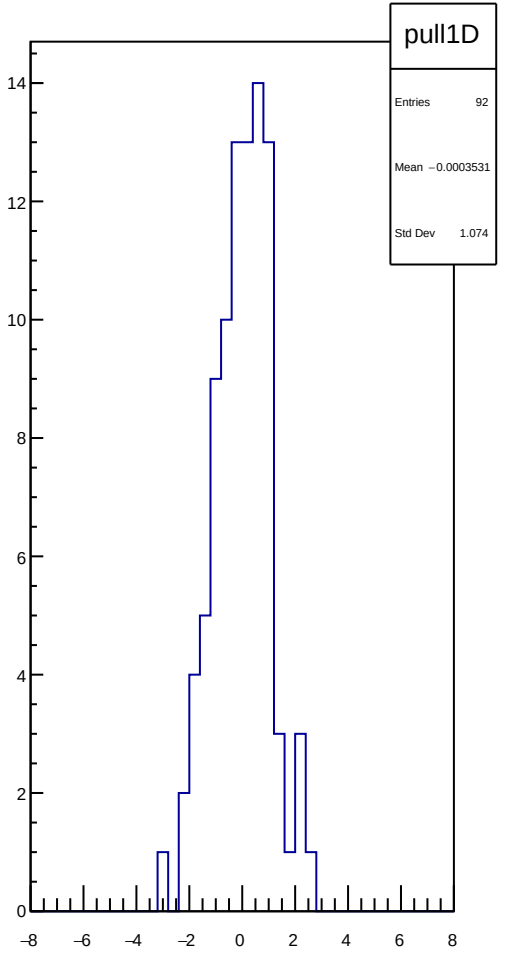

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 2110 / 91
p0 22.72 ± 0.01736
25
24.5
24
23.5
23
22.5
22
21.5
21

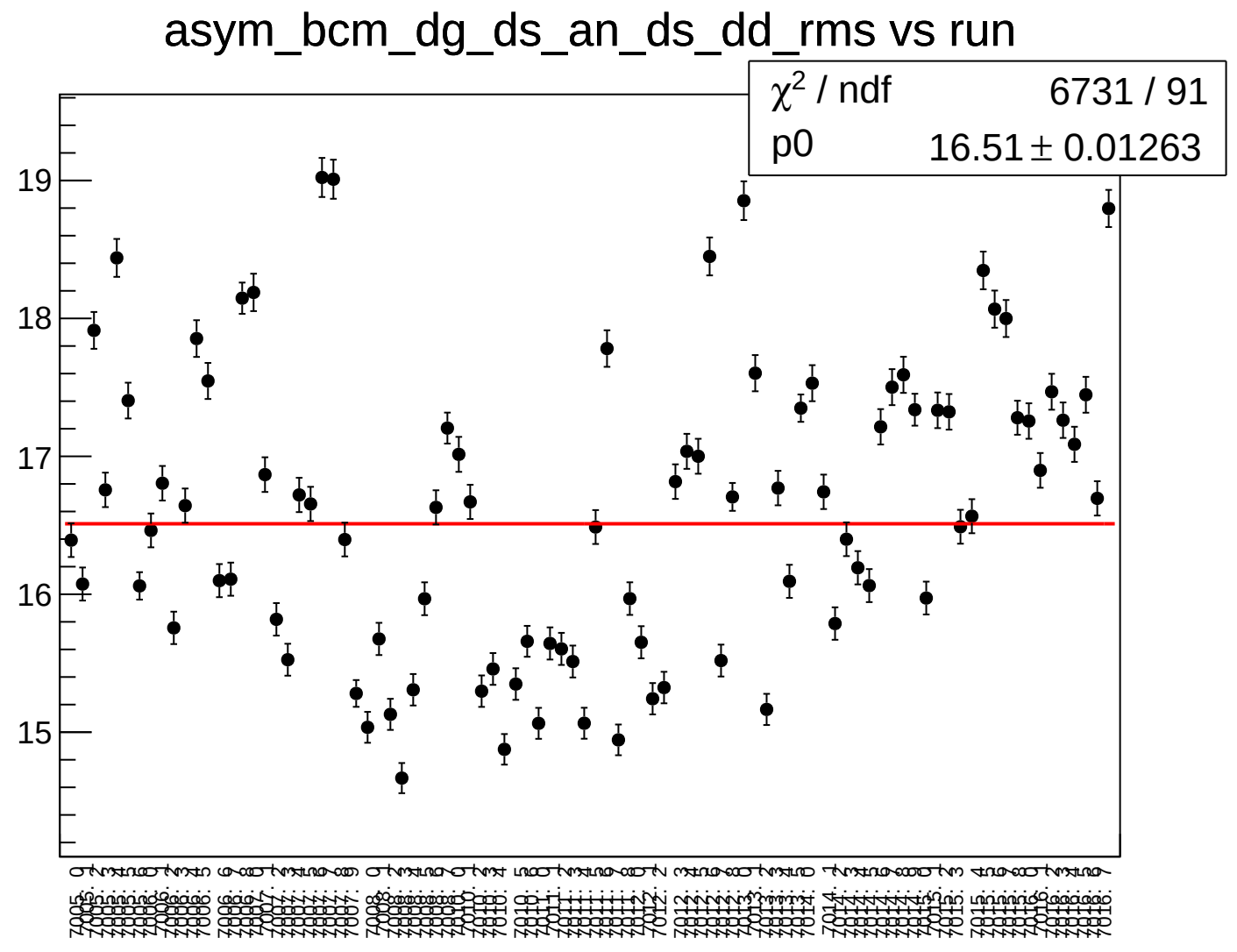

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 18.81 / 91
p0 22.58 ± 203.1
pull
Entries 92
Mean −76.91
Std Dev 0

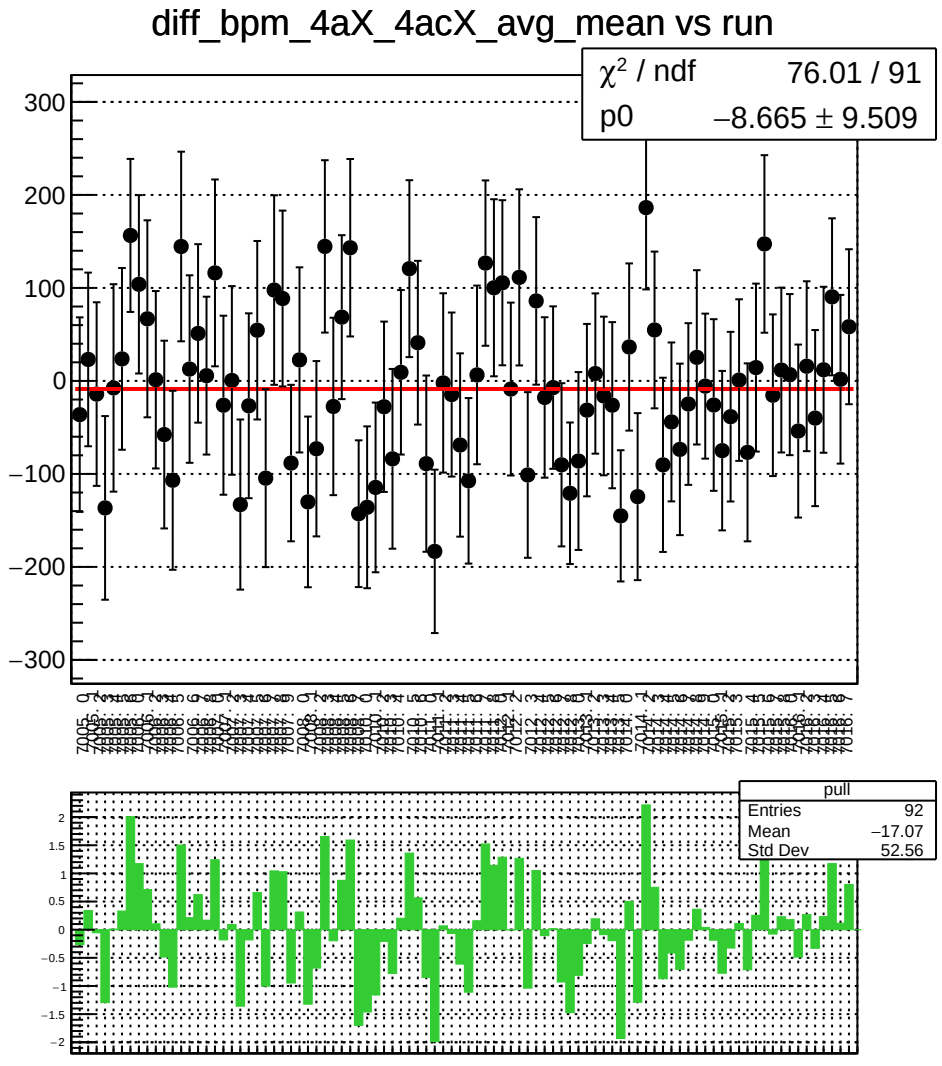

pull1D
Entries 92
Mean −0.003573
Std Dev 0.4521

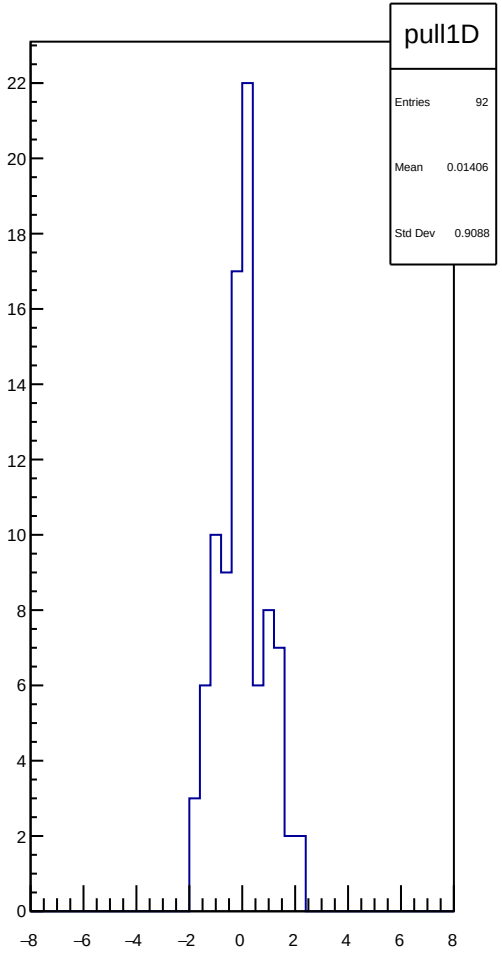

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 2.375e+05 / 91
p0 174.6 ± 0.1436
400
350
300
250
200
150
100

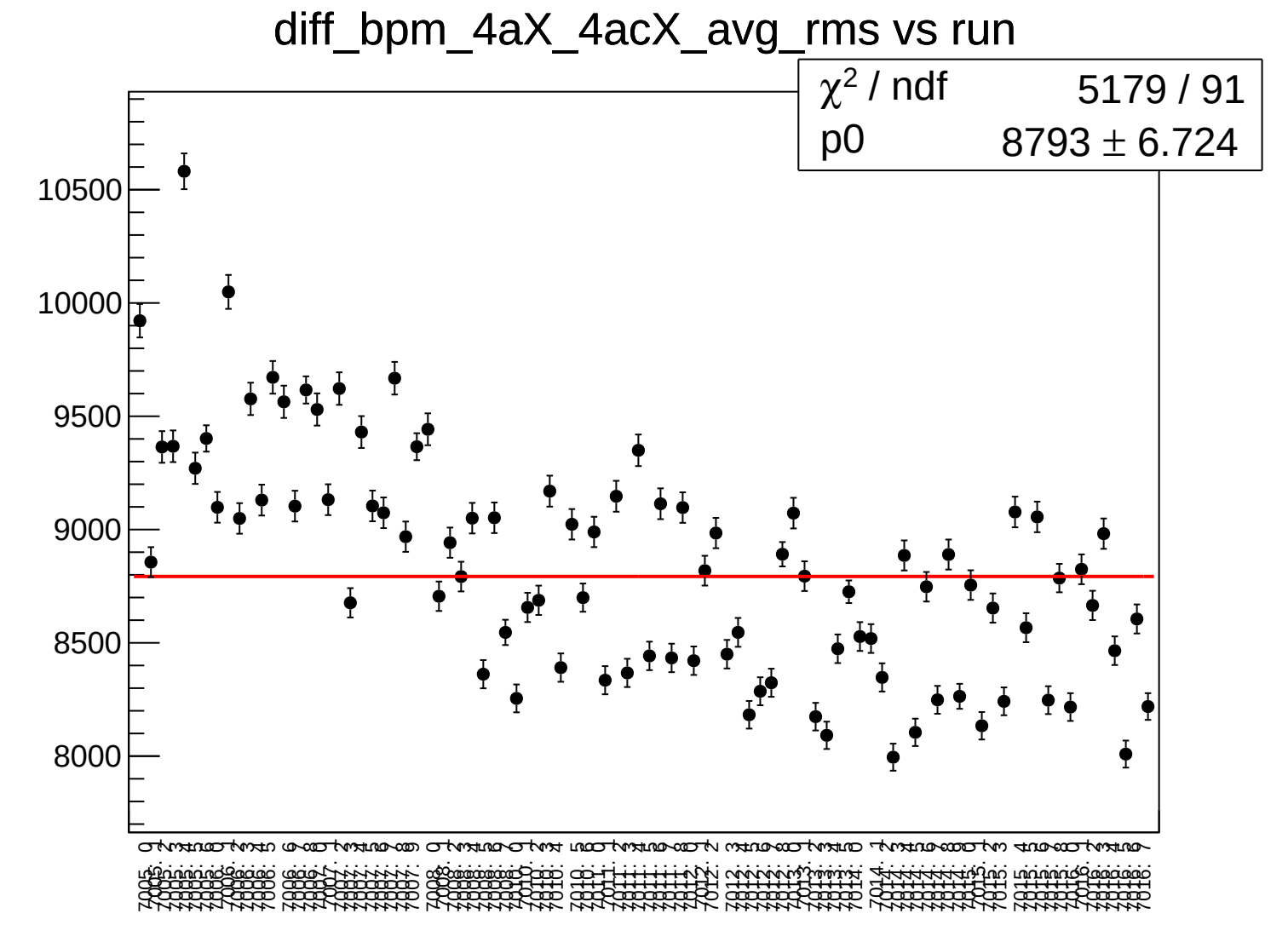

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 106 / 91
p0 9.826 ± 17.86
600
400
200
0
−200
−400
−600
−800
pull
Entries 92
Mean 4783
Std Dev 0
2
1
0
−1
−2
−3

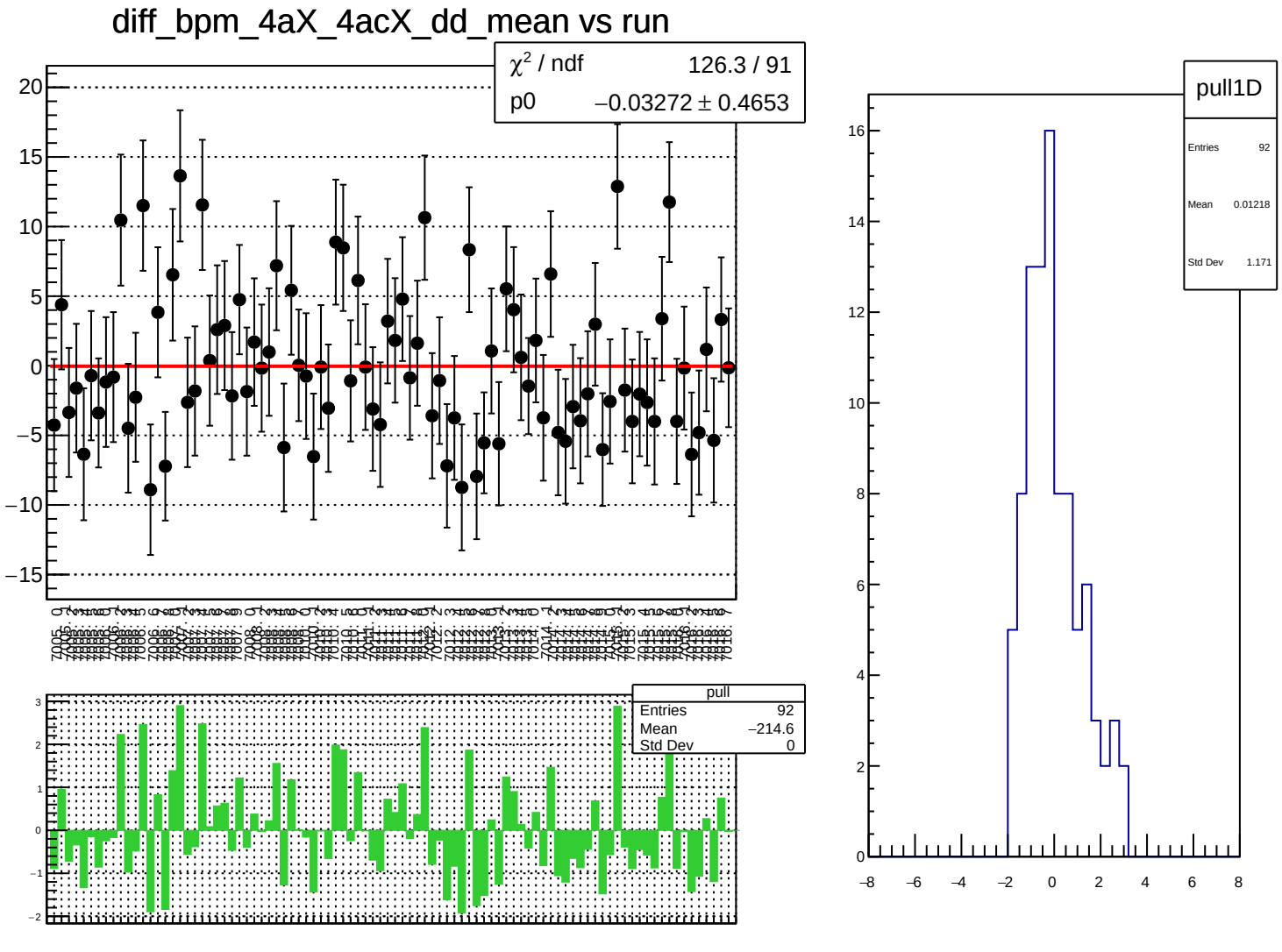

pull1D
Entries 92
Mean −0.0003531
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

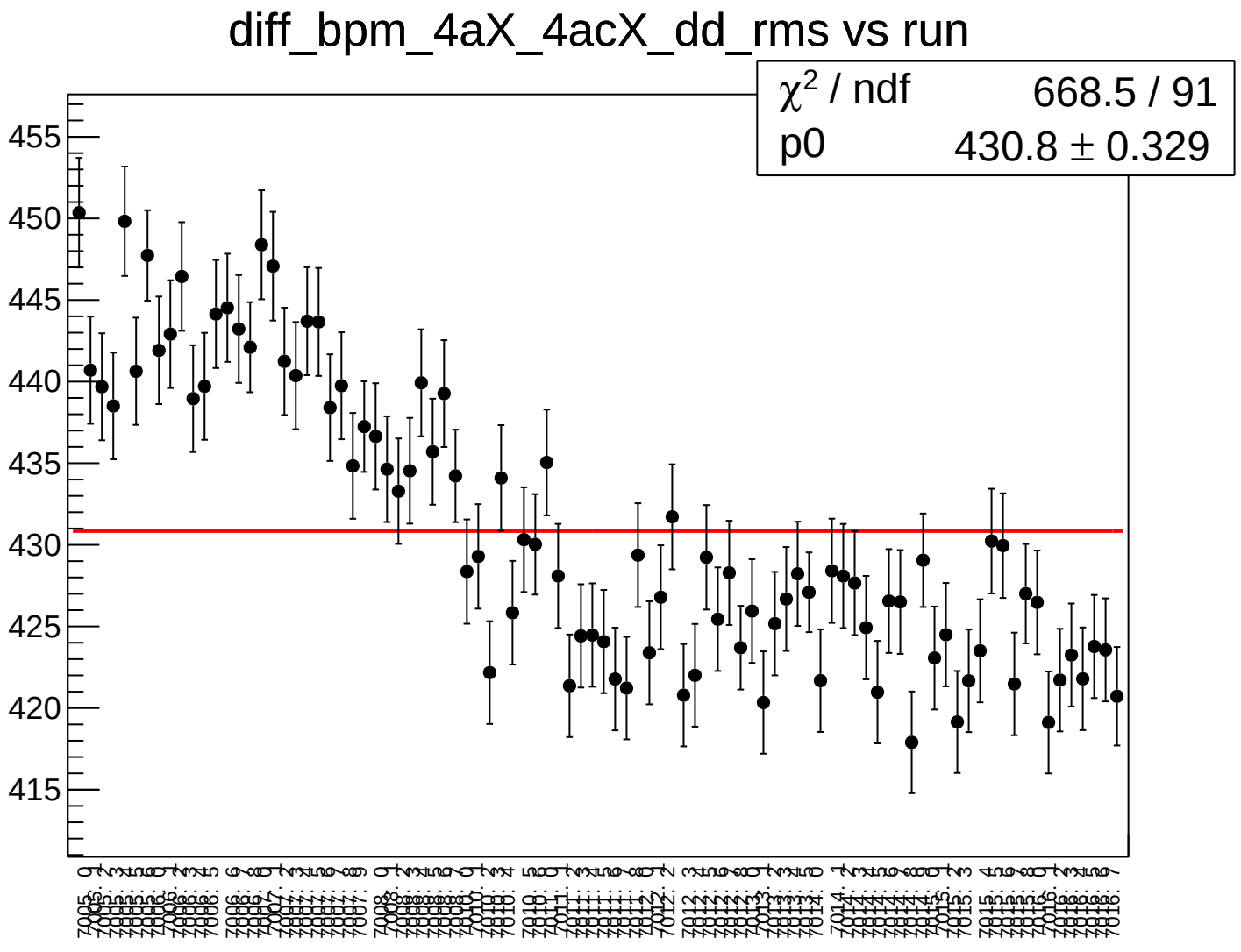

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 6731 / 91
p0 16.51 ± 0.01263
19
18
17
16
15

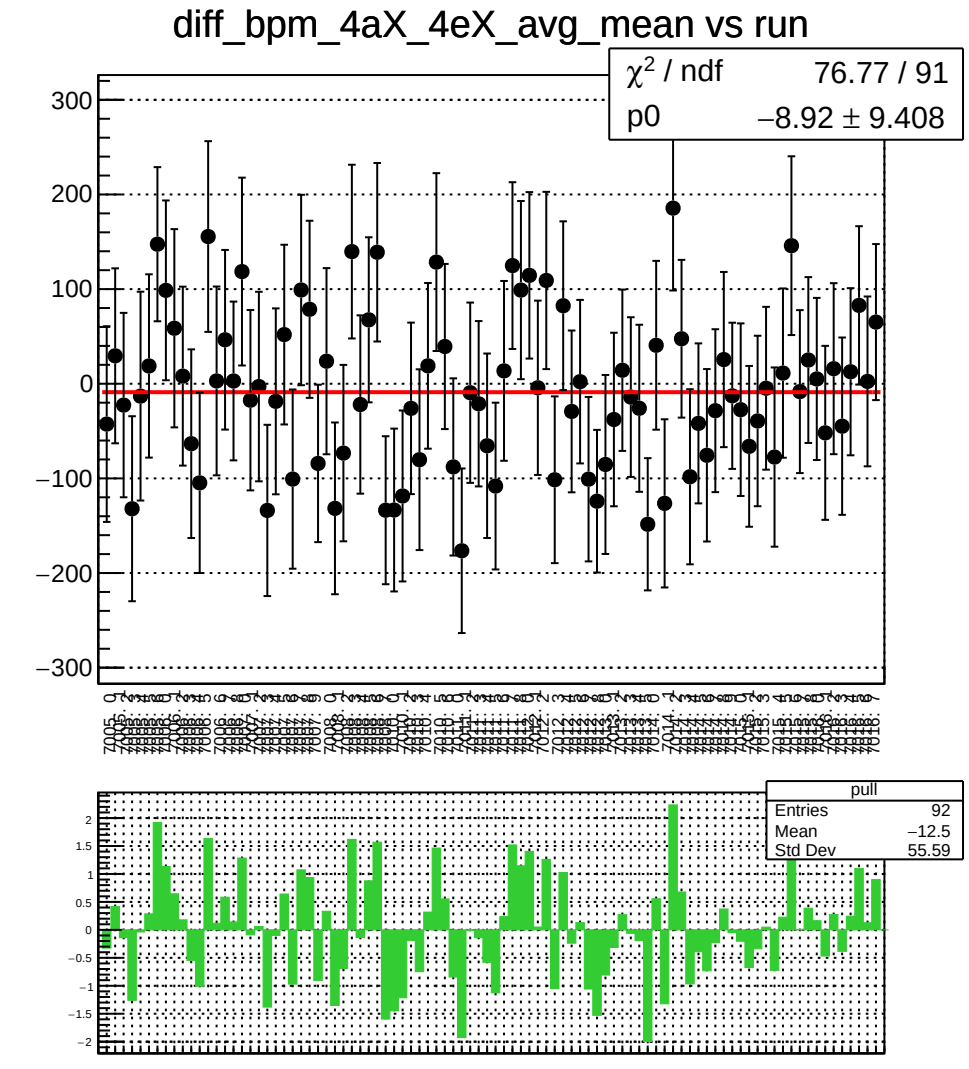

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 76.01 / 91
p0 −8.665 ± 9.509
pull
Entries 92
Mean −17.07
Std Dev 52.56

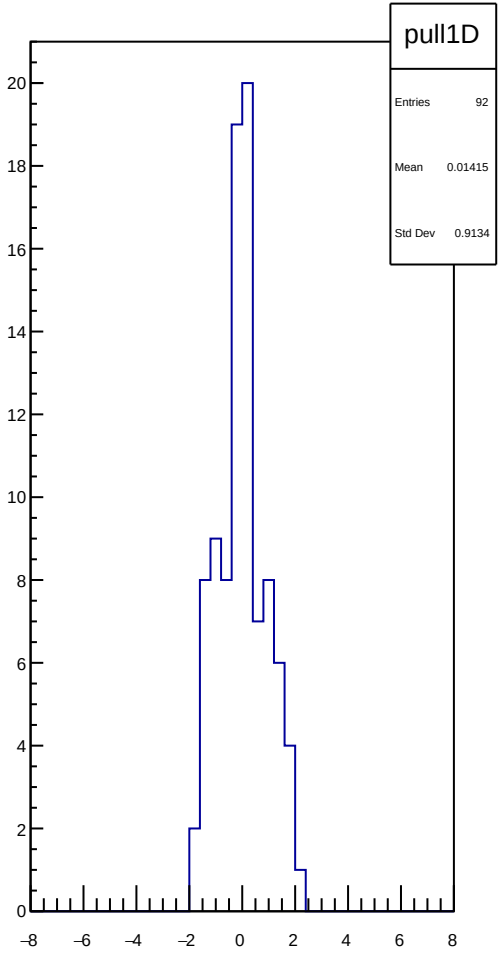

pull1D
Entries 92
Mean 0.01406
Std Dev 0.9088

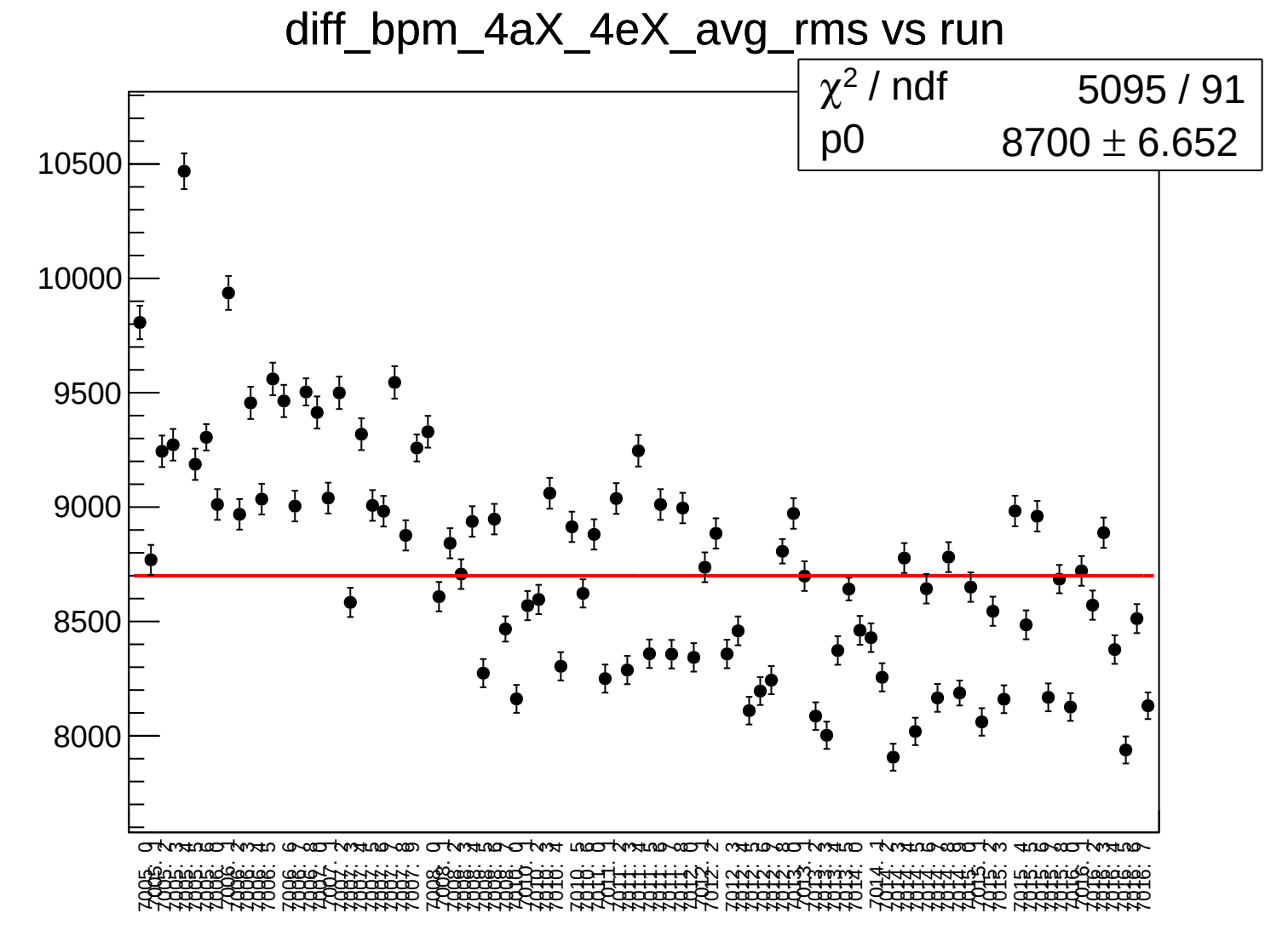

diff_bpm_4aX_4acX_avg_rms vs run
$\chi^2$ / ndf 5179 / 91
p0 8793 ± 6.724
10500
10000
9500
9000
8500
8000

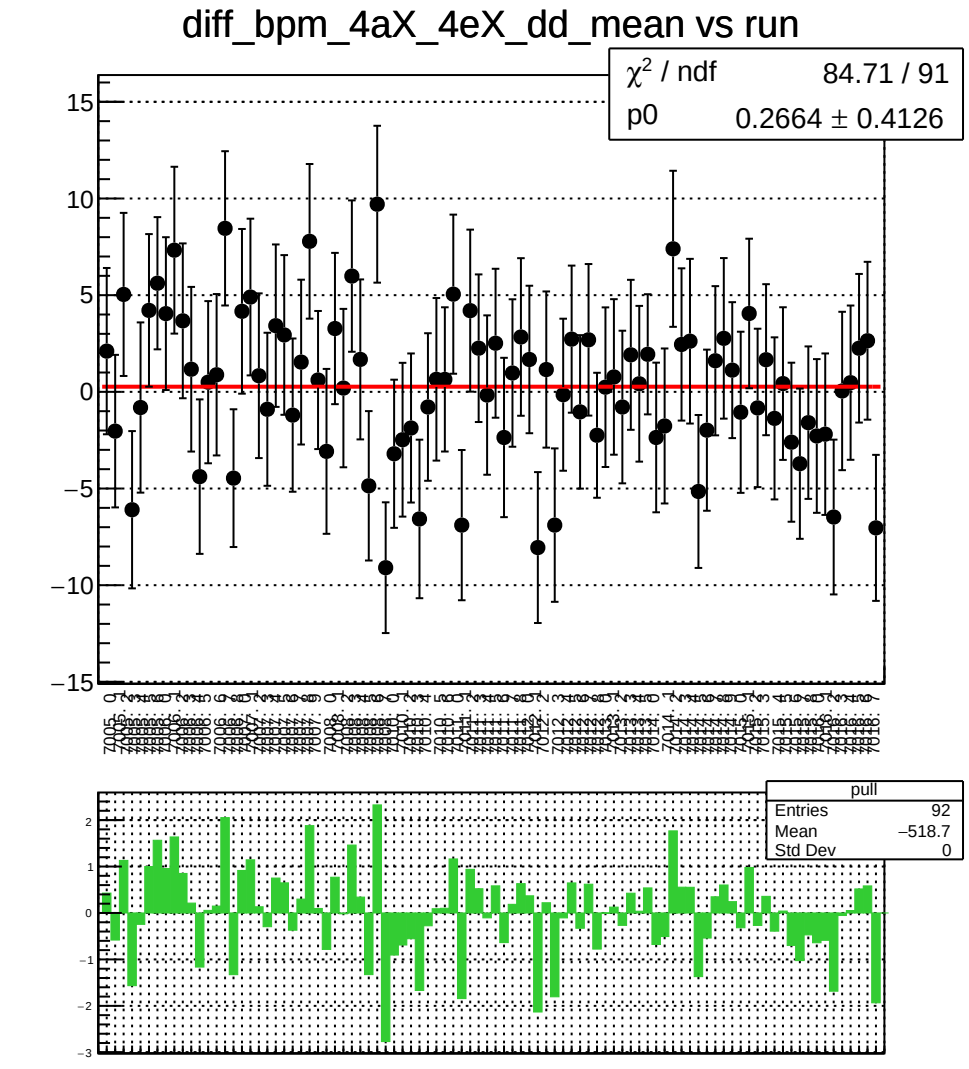

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 126.3 / 91
p0 −0.03272 ± 0.4653
pull
Entries 92
Mean −214.6
Std Dev 0
pull1D
Entries 92
Mean 0.01218
Std Dev 1.171

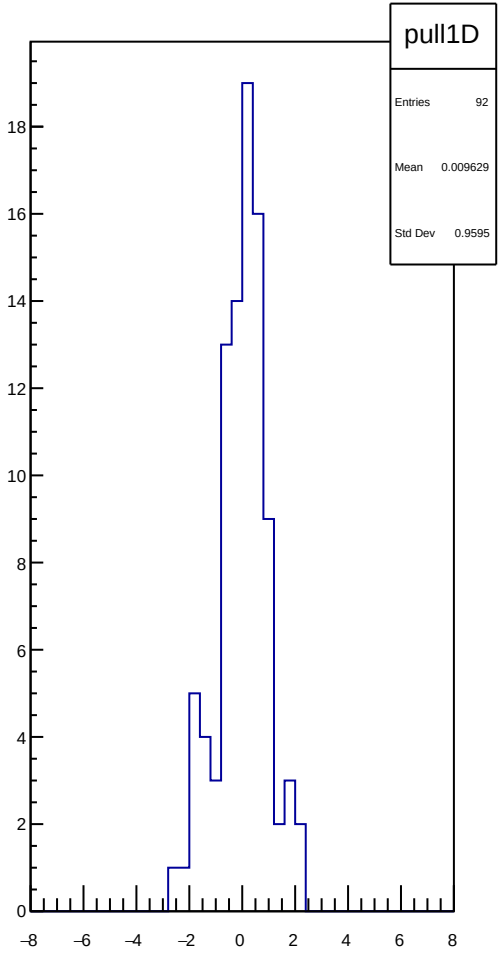

diff_bpm_4aX_4acX_dd_rms vs run
$\chi^2$ / ndf 668.5 / 91
p0 430.8 ± 0.329
455
450
445
440
435
430
425
420
415

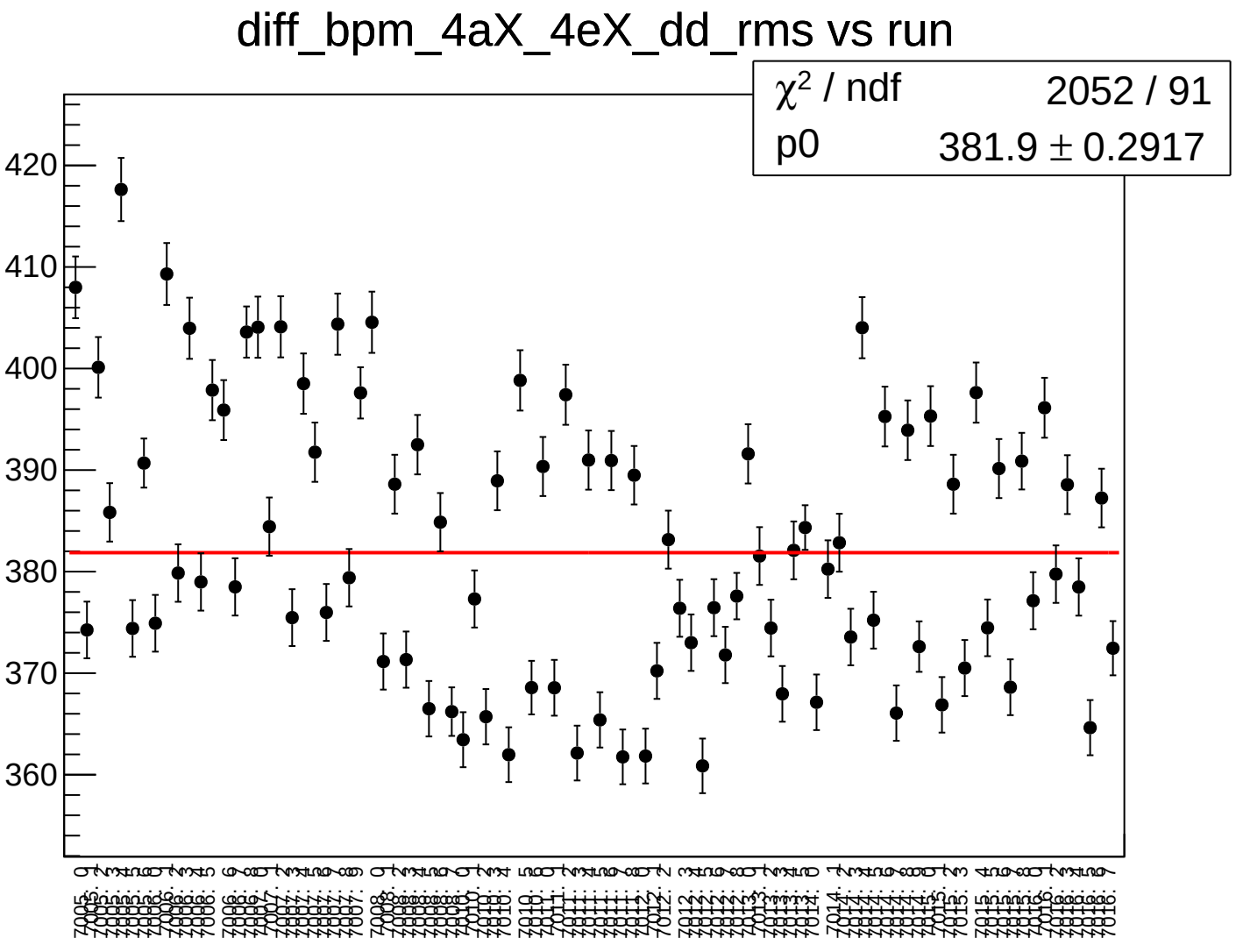

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 76.77 / 91
p0 −8.92 ± 9.408
pull
Entries 92
Mean −12.5
Std Dev 55.59

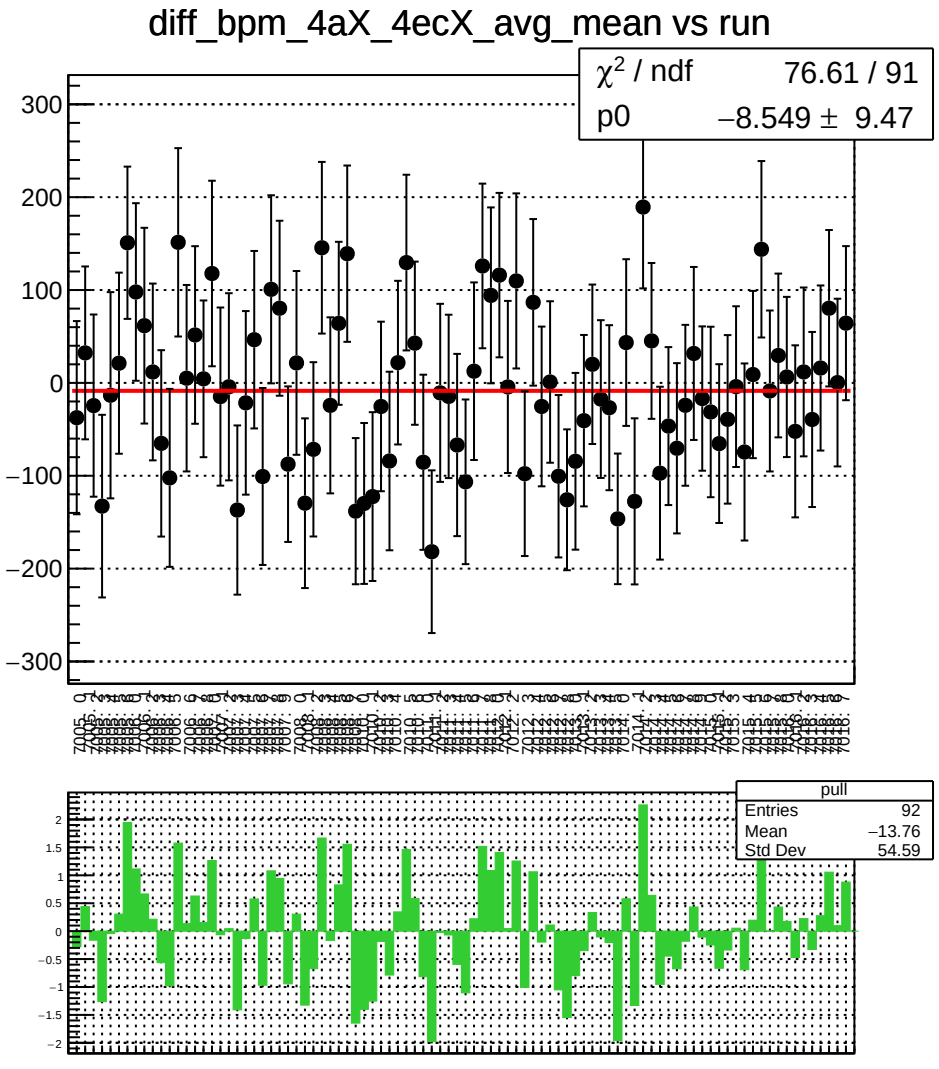

pull1D
Entries 92
Mean 0.01415
Std Dev 0.9134

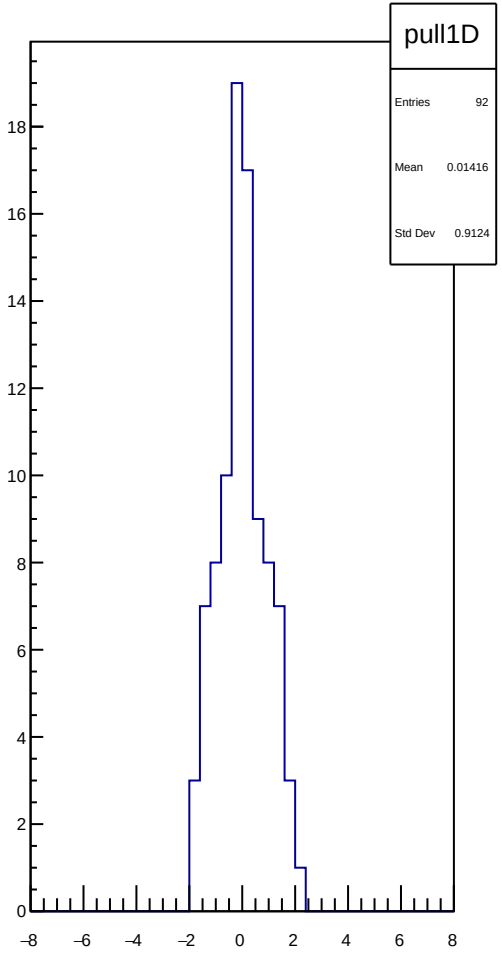

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 5095 / 91
p0 8700 ± 6.652
10500
10000
9500
9000
8500
8000

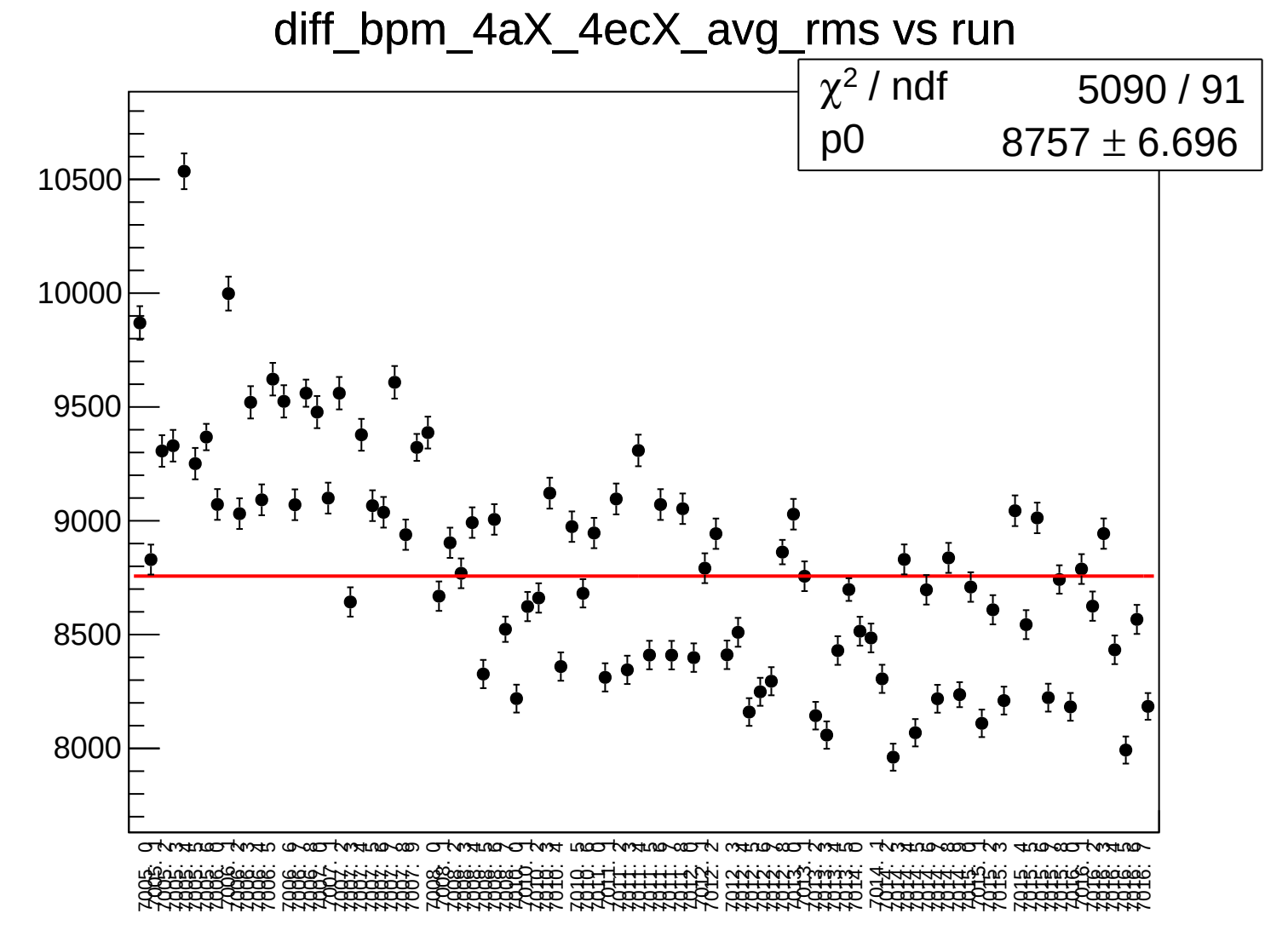

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 84.71 / 91
p0 0.2664 ± 0.4126
pull
Entries 92
Mean −518.7
Std Dev 0

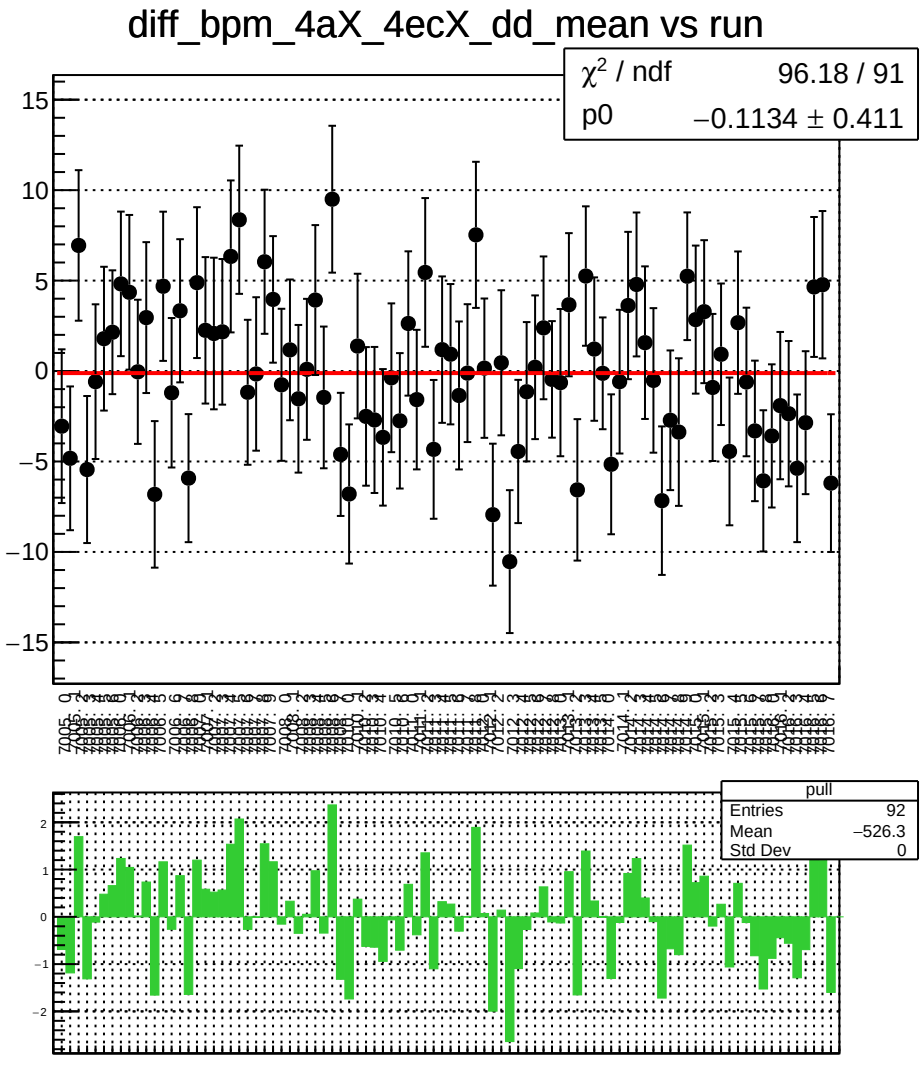

pull1D
Entries 92
Mean 0.009629
Std Dev 0.9595

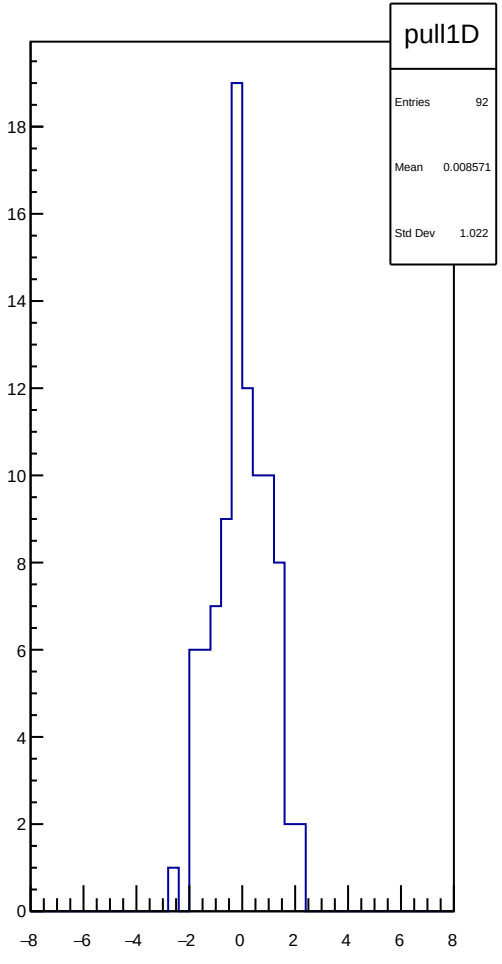

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 2052 / 91
p0 381.9 ± 0.2917
420
410
400
390
380
370
360

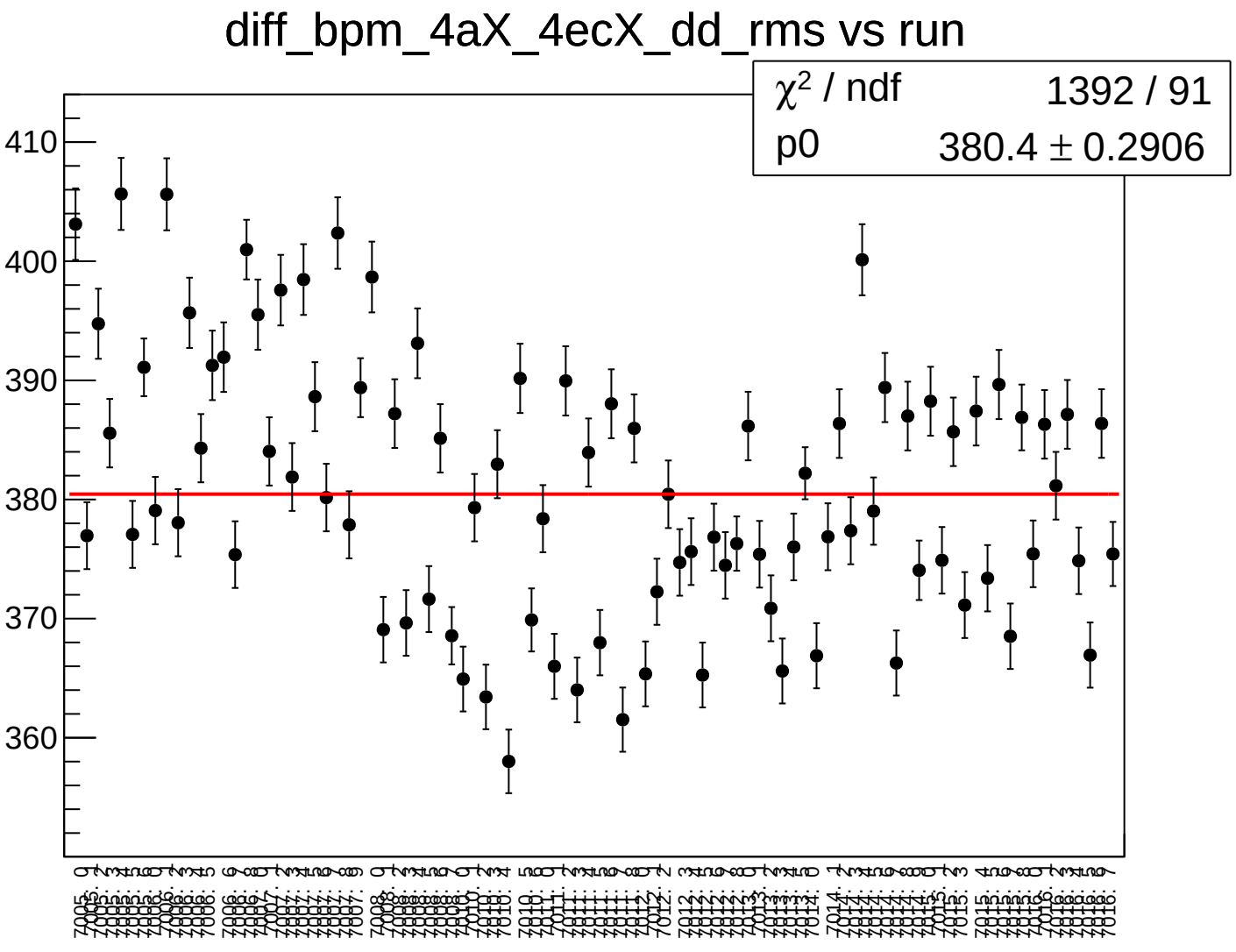

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 76.61 / 91
p0 −8.549 ± 9.47
pull
Entries 92
Mean −13.76
Std Dev 54.59

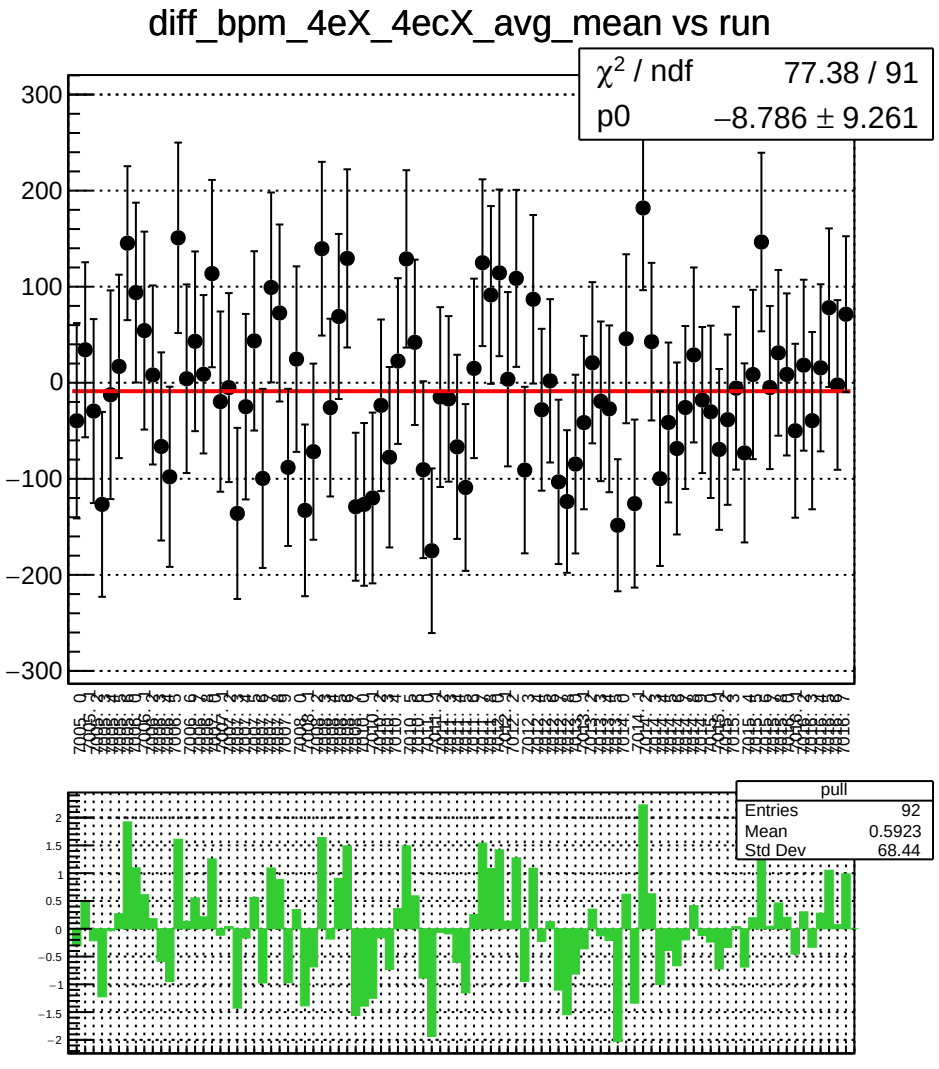

pull1D
Entries 92
Mean 0.01416
Std Dev 0.9124

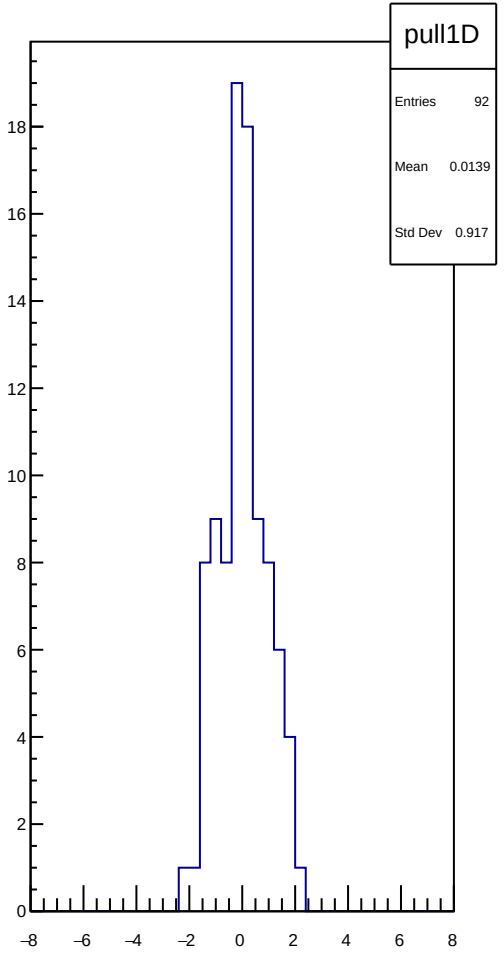

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 5090 / 91
p0 8757 ± 6.696
10500
10000
9500
9000
8500
8000

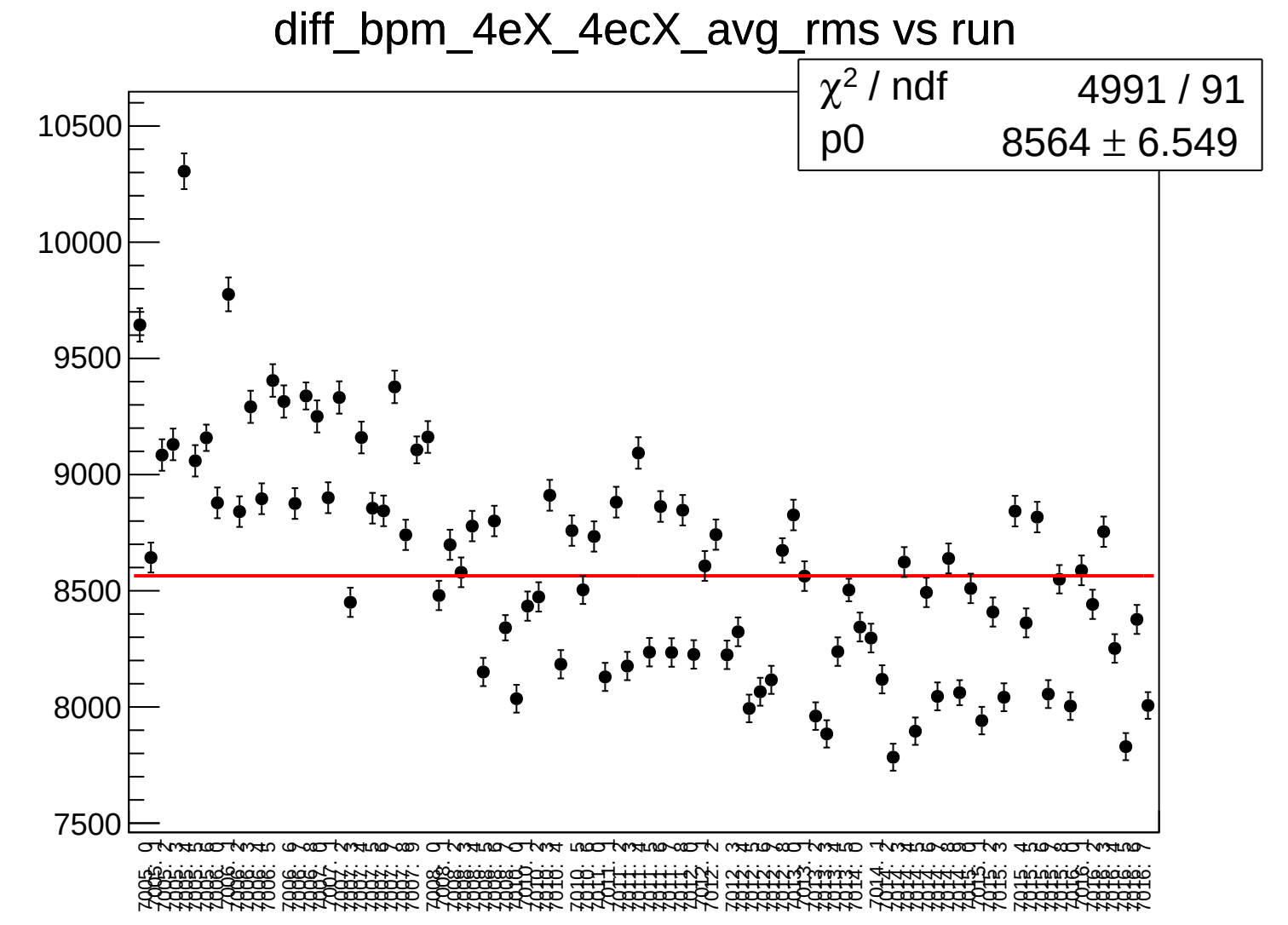

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 96.18 / 91
p0 −0.1134 ± 0.411
pull
Entries 92
Mean −526.3
Std Dev 0

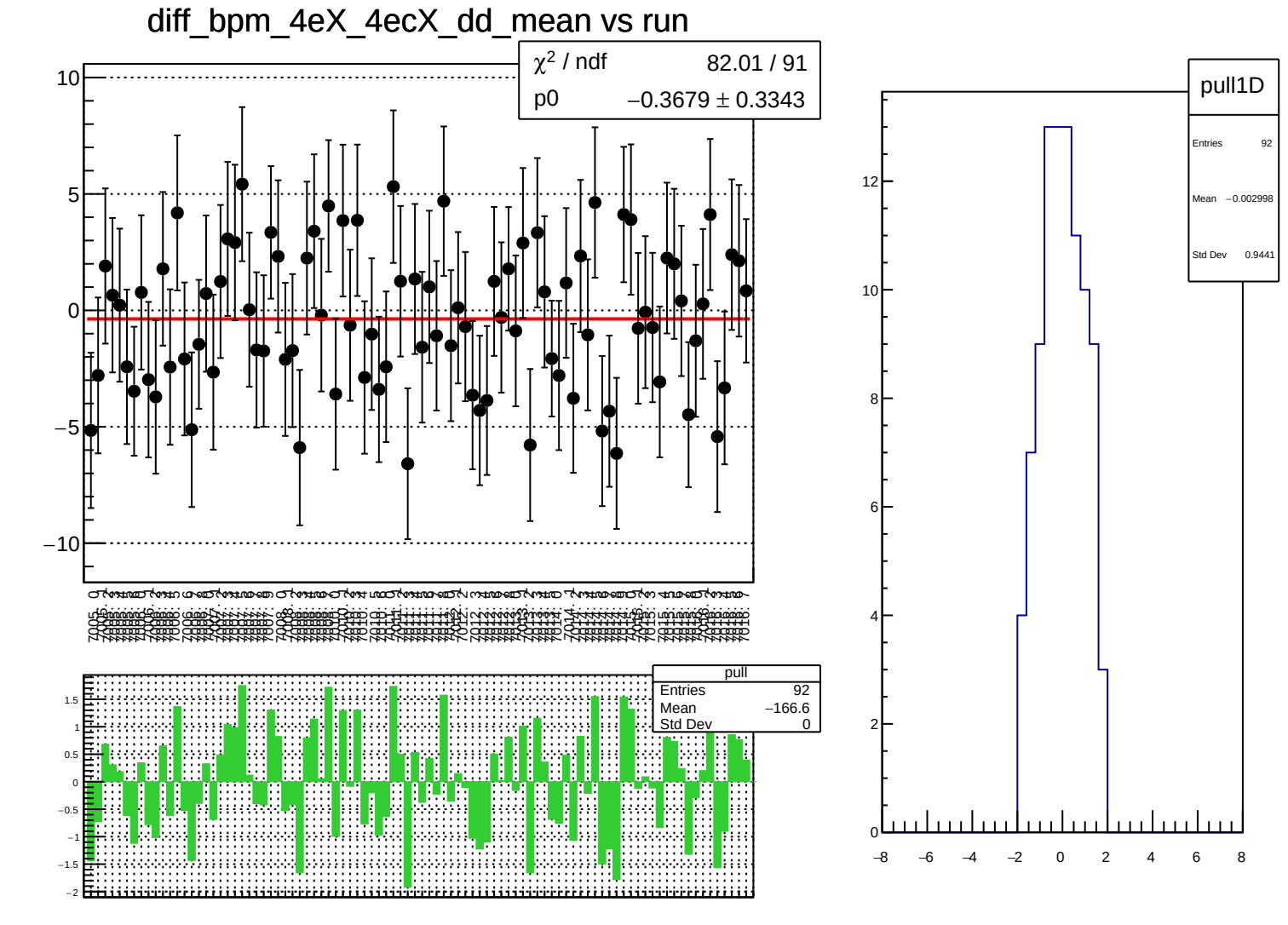

pull1D
Entries 92
Mean 0.008571
Std Dev 1.022

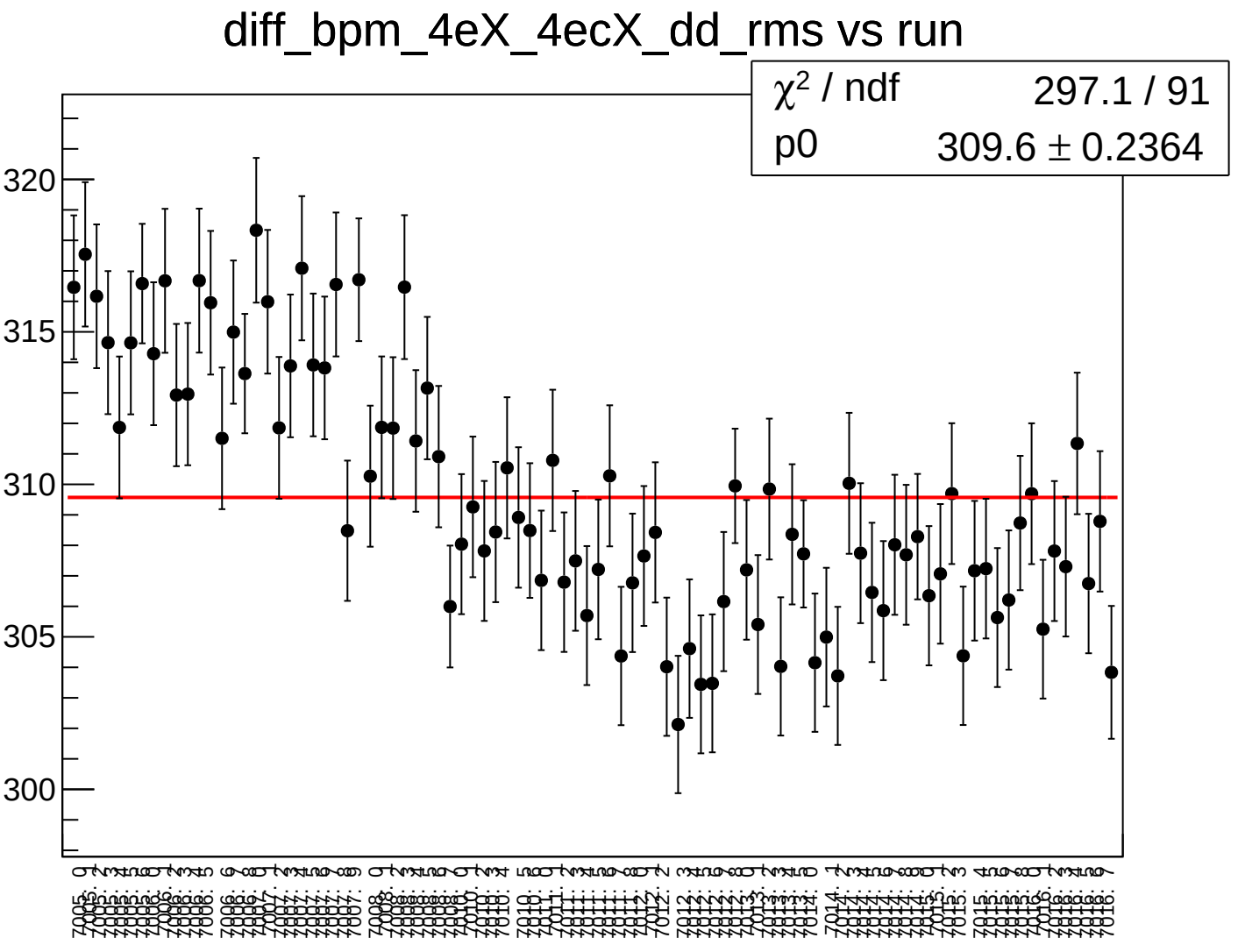

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1392 / 91
p0 380.4 ± 0.2906
410
400
390
380
370
360

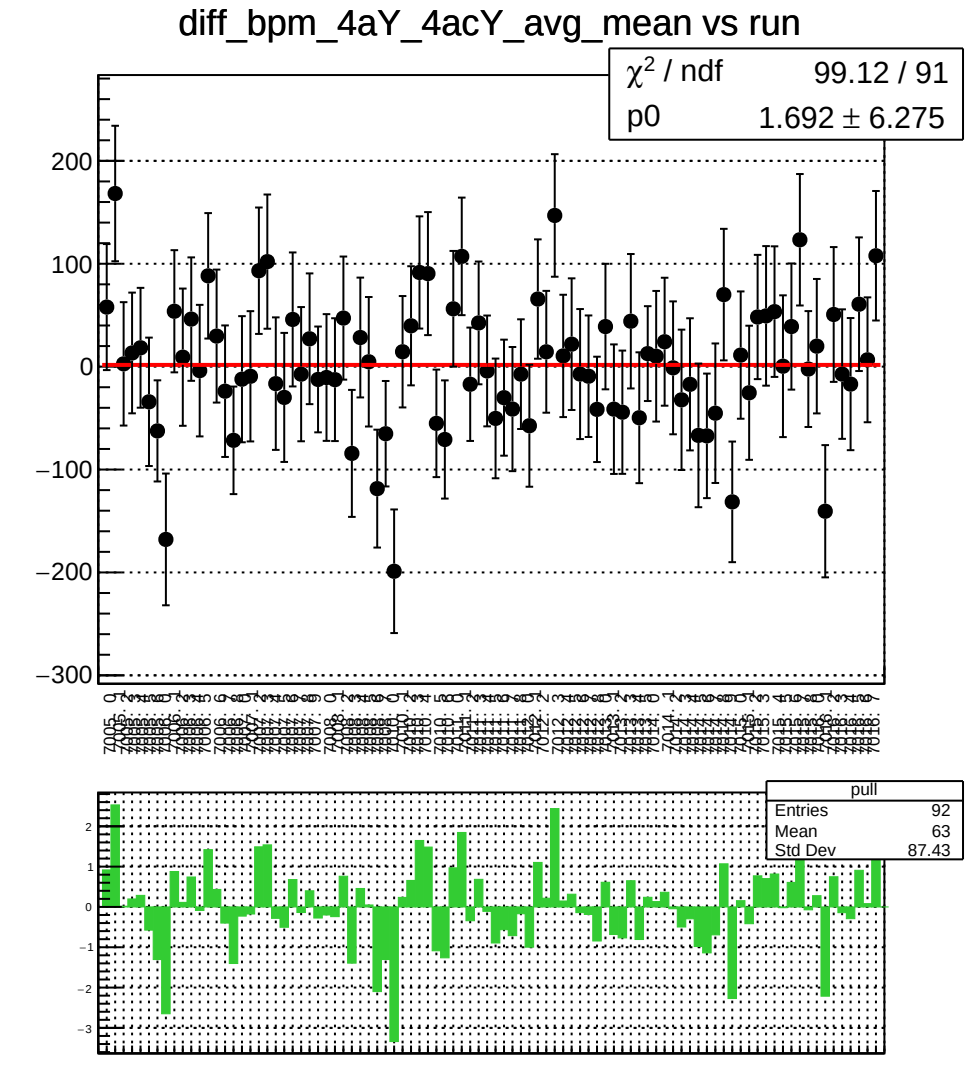

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 77.38 / 91
p0 −8.786 ± 9.261
pull
Entries 92
Mean 0.5923
Std Dev 68.44

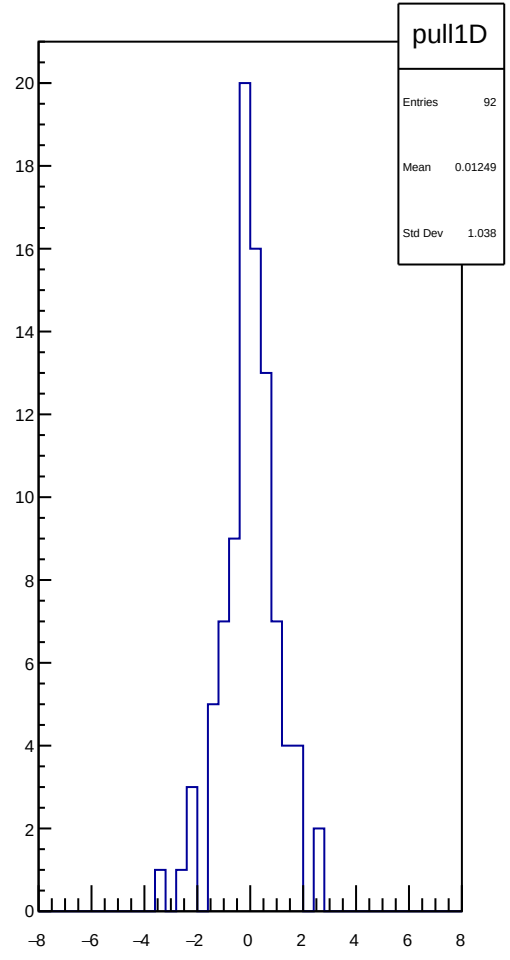

pull1D
Entries 92
Mean 0.0139
Std Dev 0.917

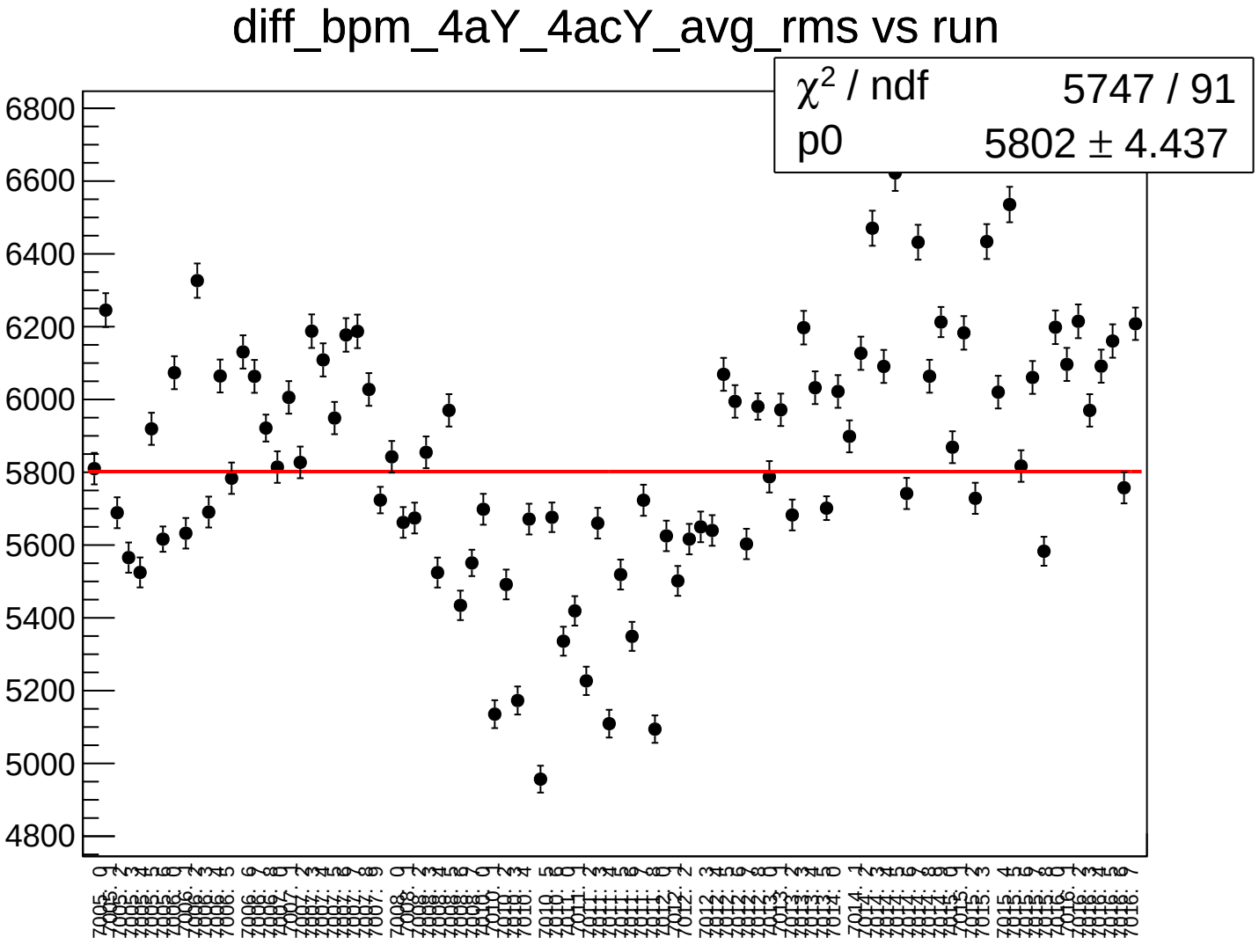

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 4991 / 91
p0 8564 ± 6.549
10500
10000
9500
9000
8500
8000
7500

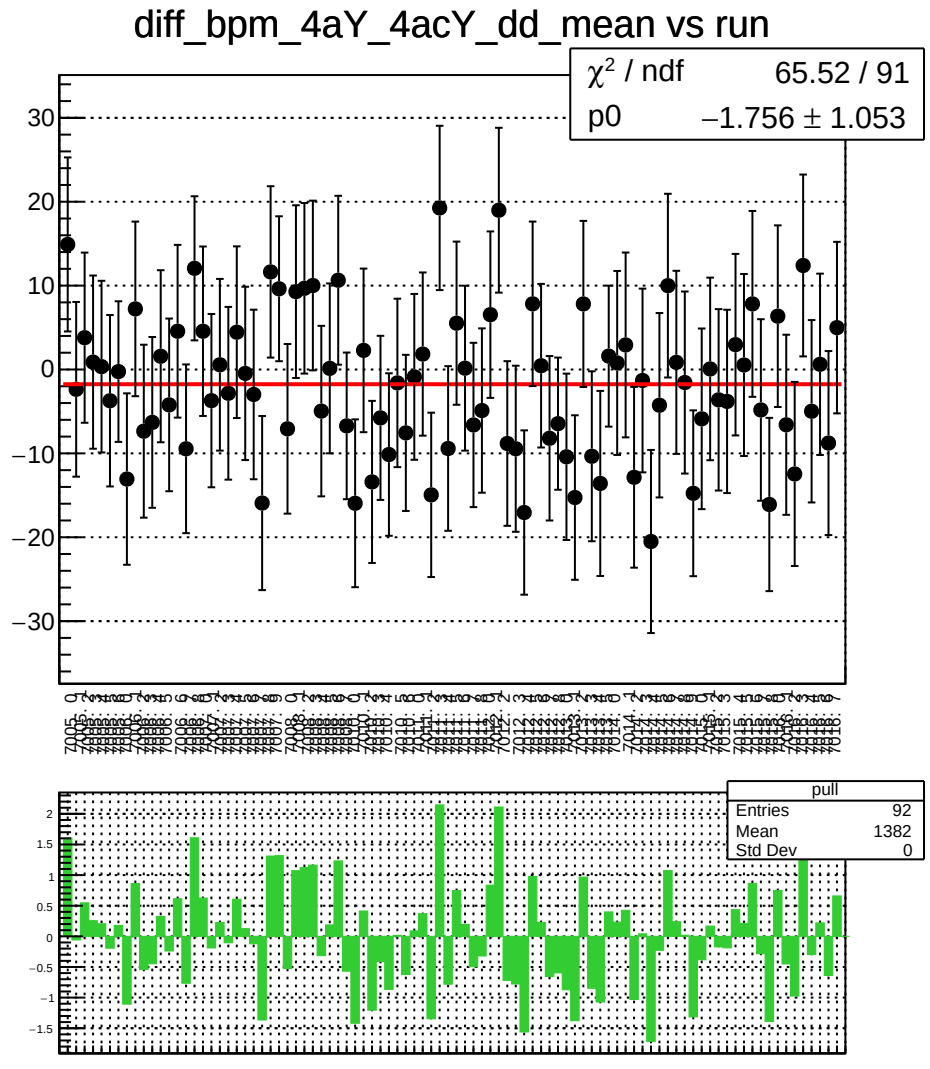

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 82.01 / 91
p0 −0.3679 ± 0.3343
pull
Entries 92
Mean −166.6
Std Dev 0
pull1D
Entries 92
Mean −0.002998
Std Dev 0.9441

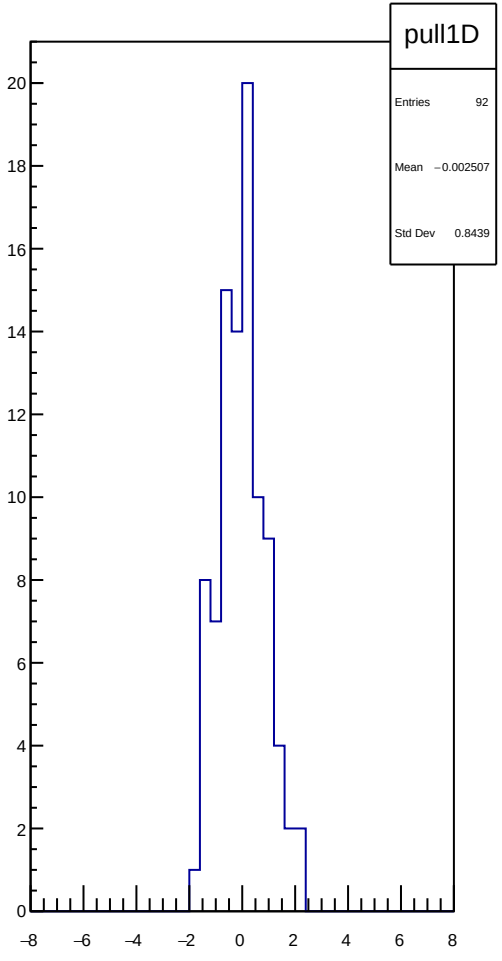

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 297.1 / 91
p0 309.6 ± 0.2364
320
315
310
305
300

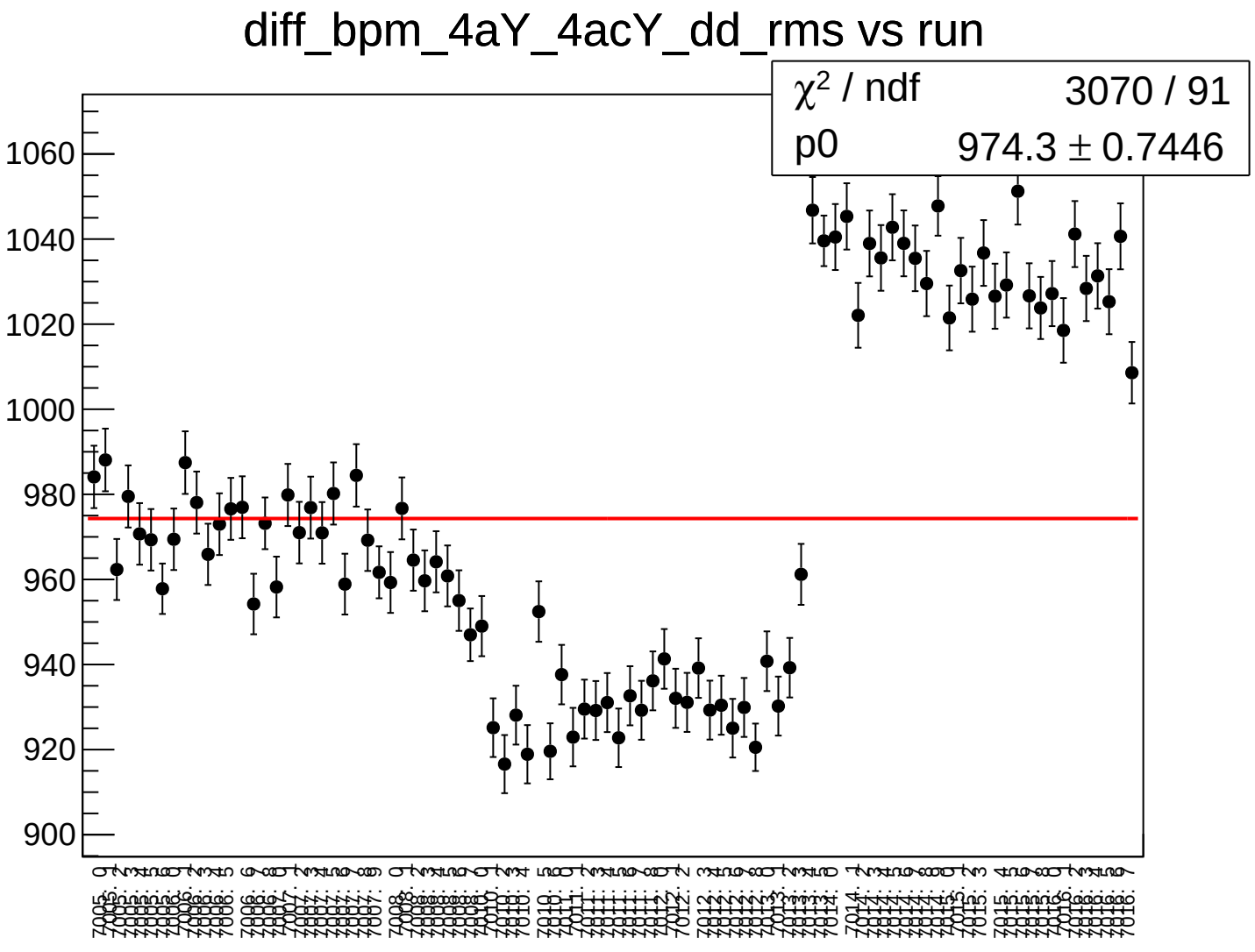

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 99.12 / 91
p0 1.692 ± 6.275
pull
Entries 92
Mean 63
Std Dev 87.43

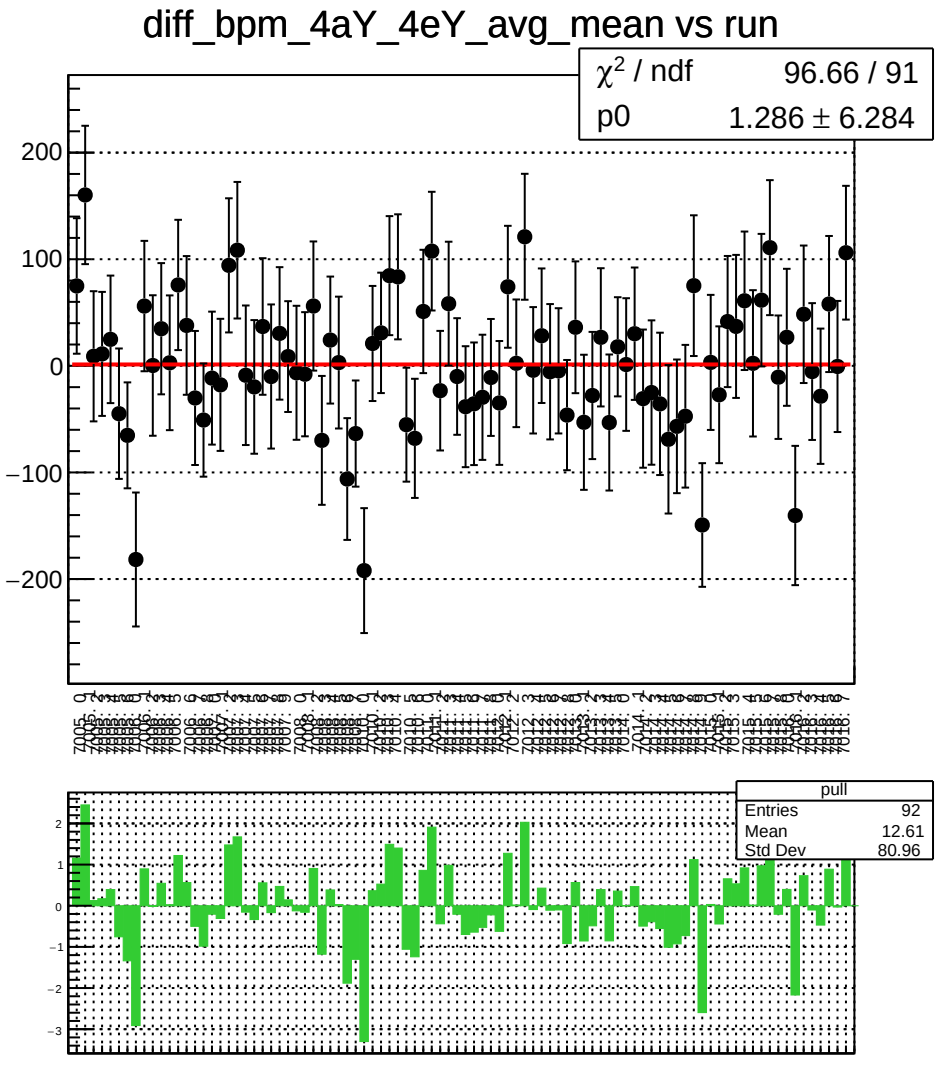

pull1D
Entries 92
Mean 0.01249
Std Dev 1.038

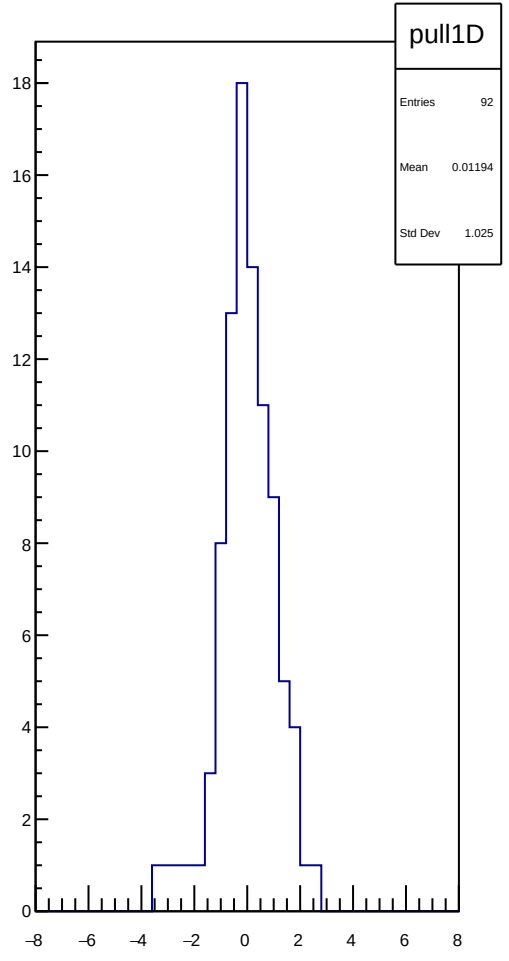

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 5747 / 91
p0 5802 ± 4.437
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

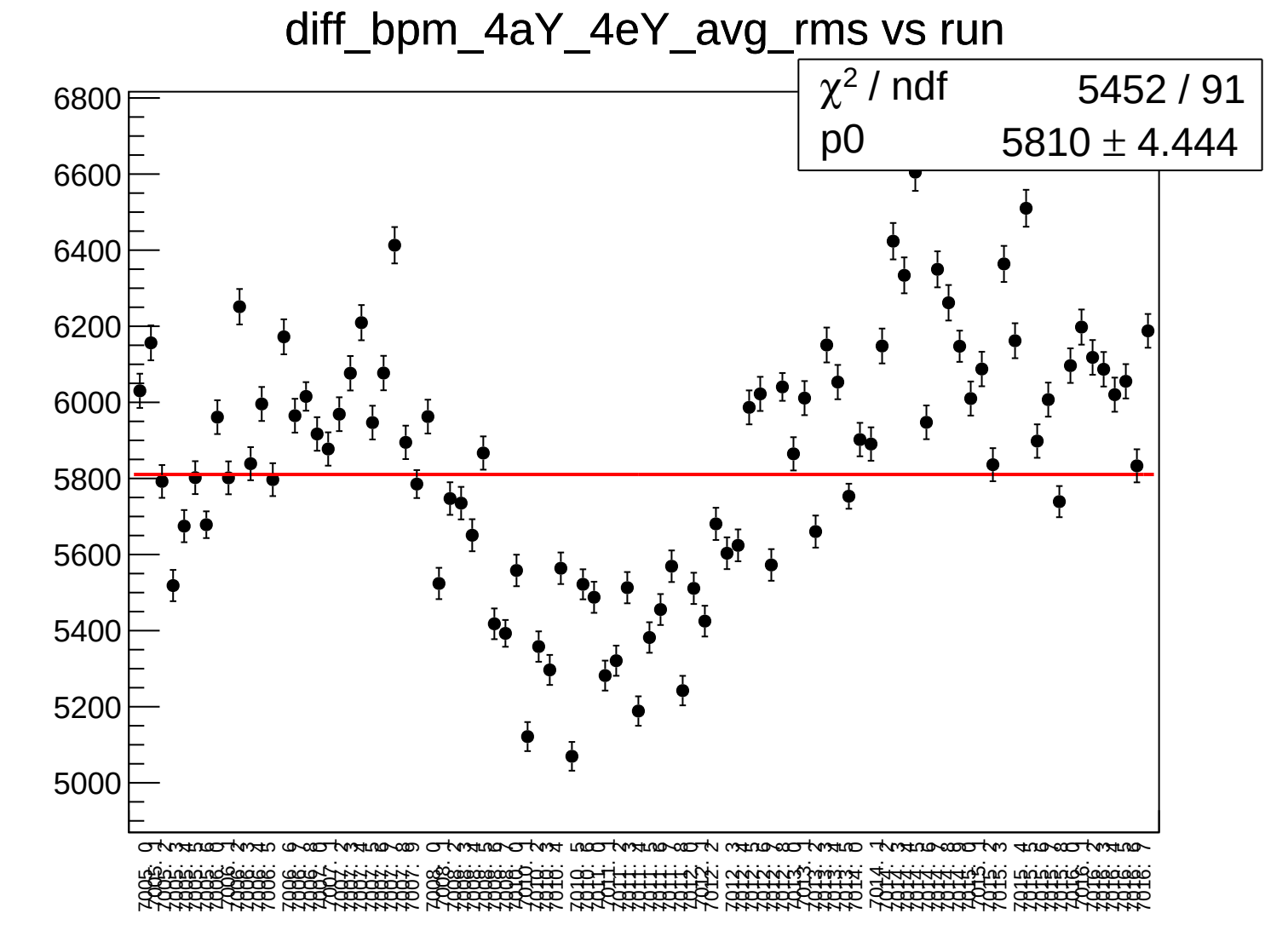

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 65.52 / 91
p0 −1.756 ± 1.053
pull
Entries 92
Mean 1382
Std Dev 0

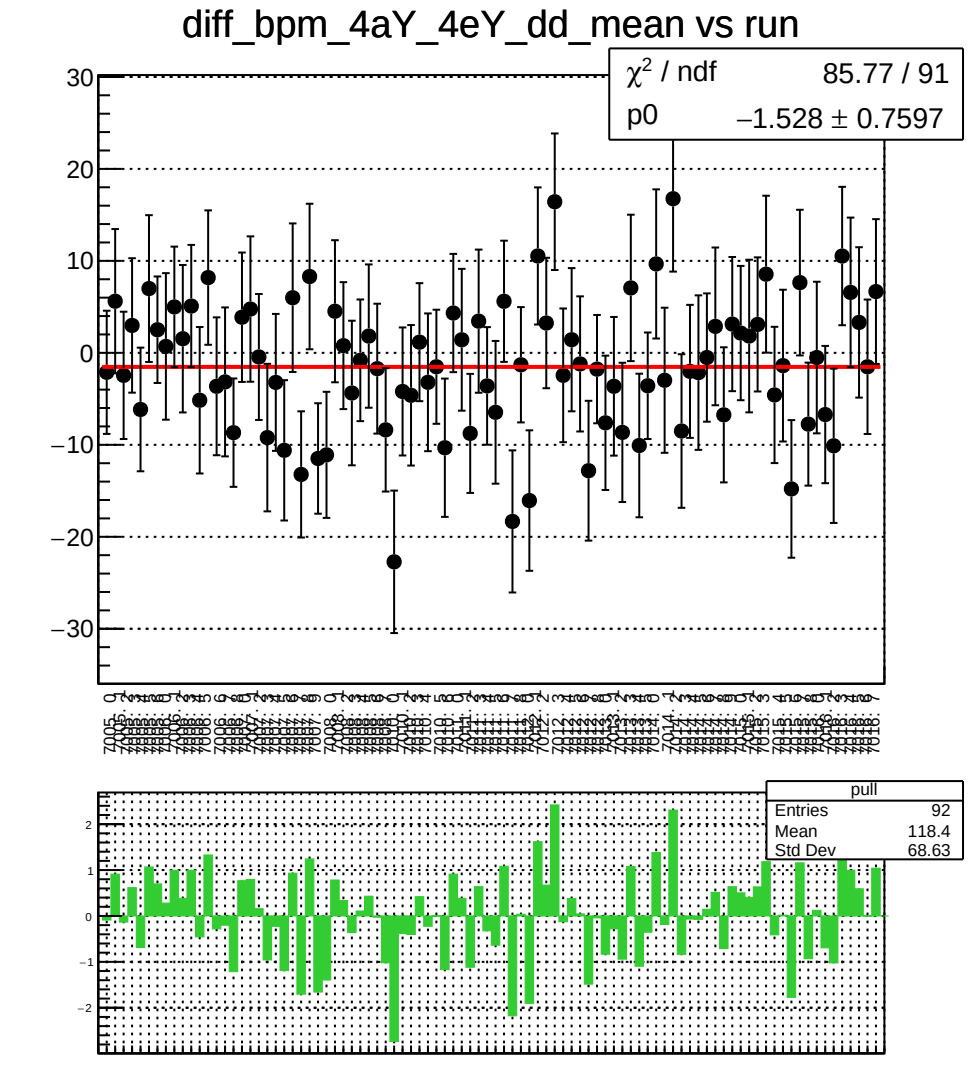

pull1D
Entries 92
Mean −0.002507
Std Dev 0.8439

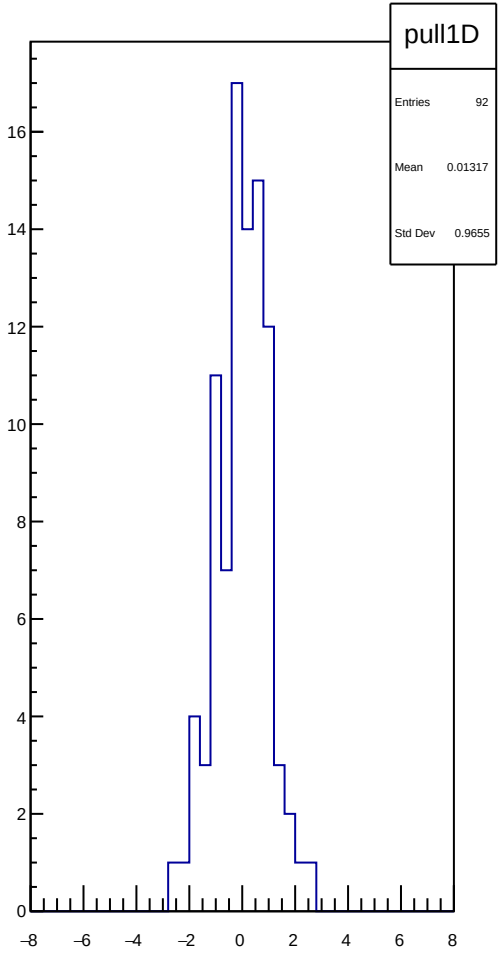

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 3070 / 91
p0 974.3 ± 0.7446
1060
1040
1020
1000
980
960
940
920
900

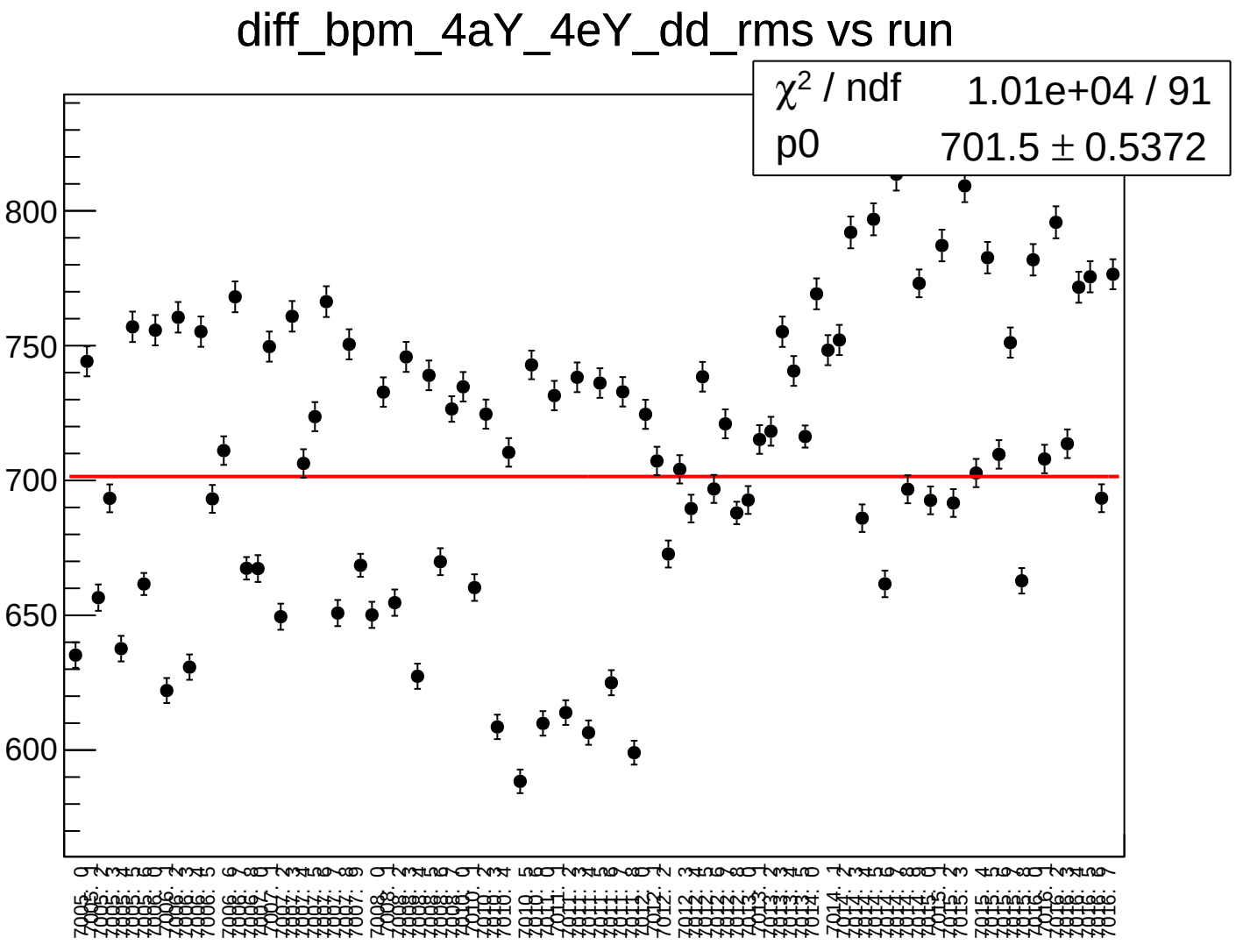

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 96.66 / 91
p0 1.286 ± 6.284
200
100
0
−100
−200
pull
Entries 92
Mean 12.61
Std Dev 80.96
2
1
0
−1
−2
−3

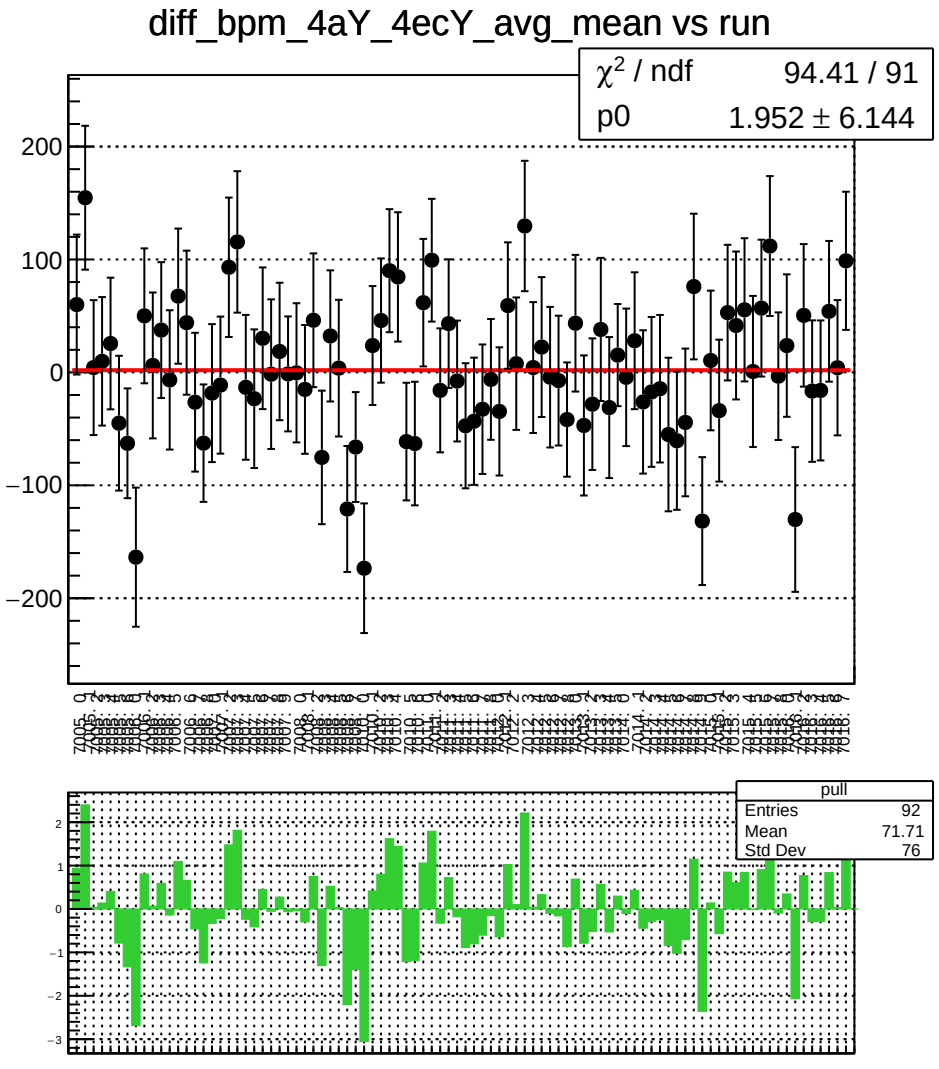

pull1D
Entries 92
Mean 0.01194
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

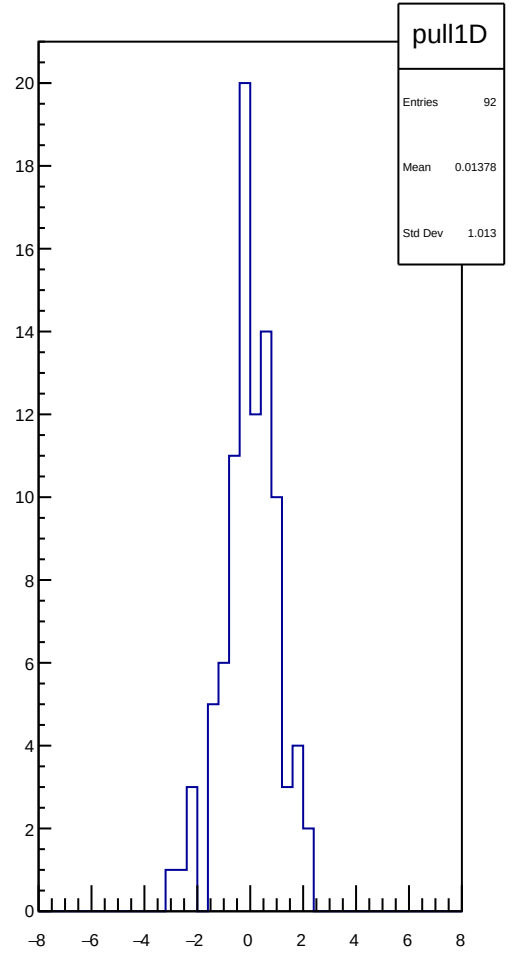

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 5452 / 91
p0 5810 ± 4.444
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

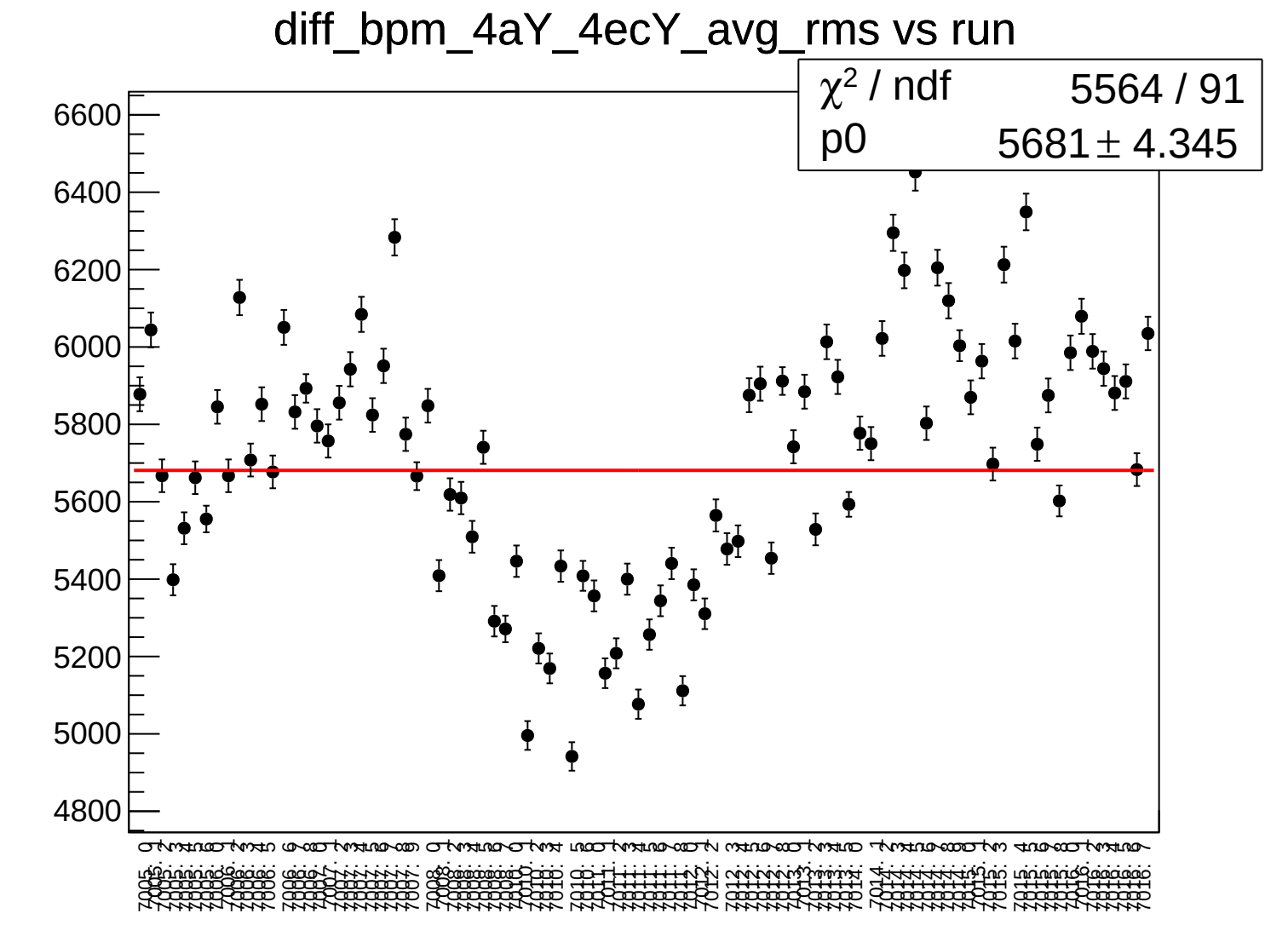

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 85.77 / 91
p0 −1.528 ± 0.7597
pull
Entries 92
Mean 118.4
Std Dev 68.63

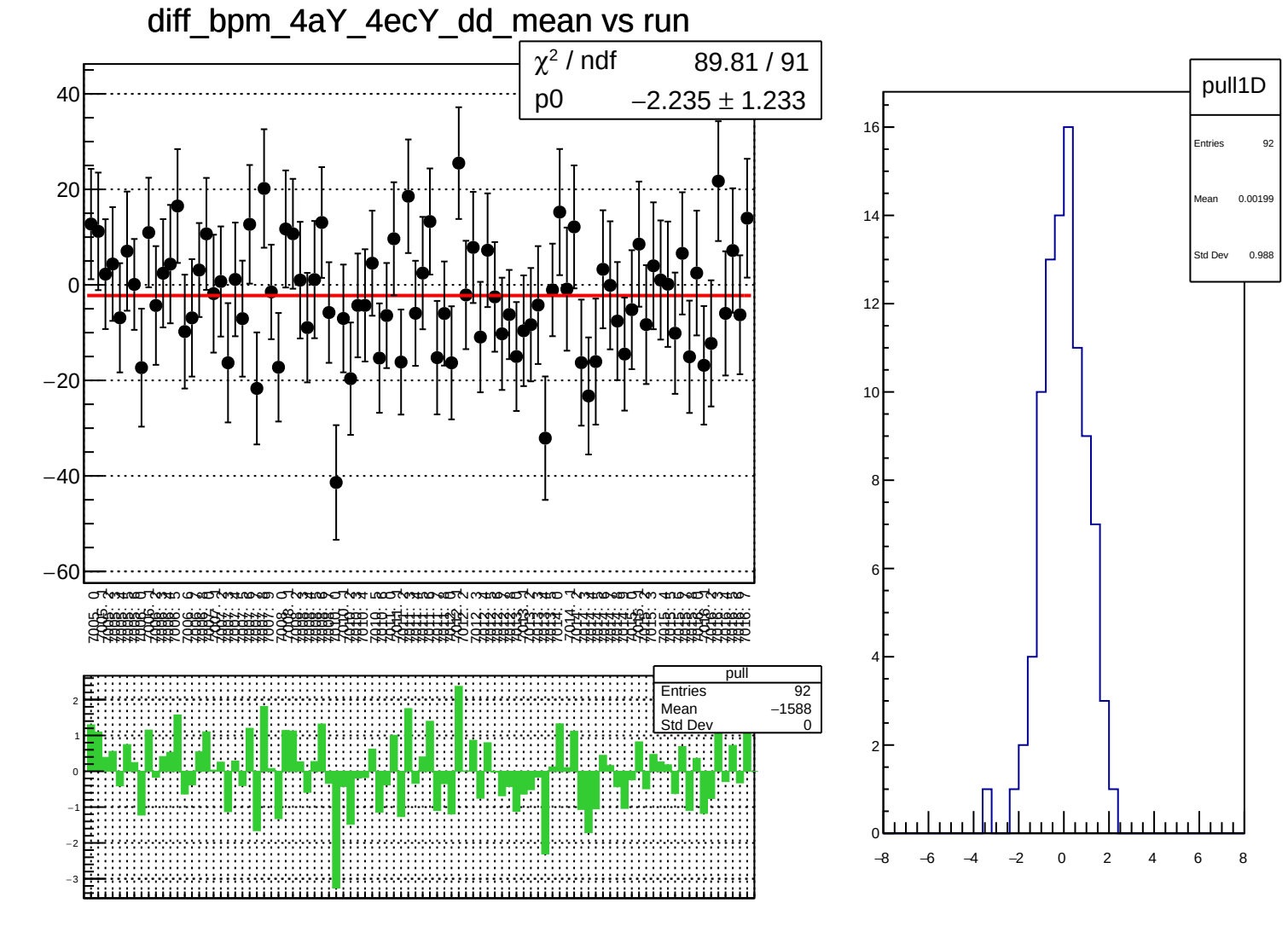

pull1D
Entries 92
Mean 0.01317
Std Dev 0.9655

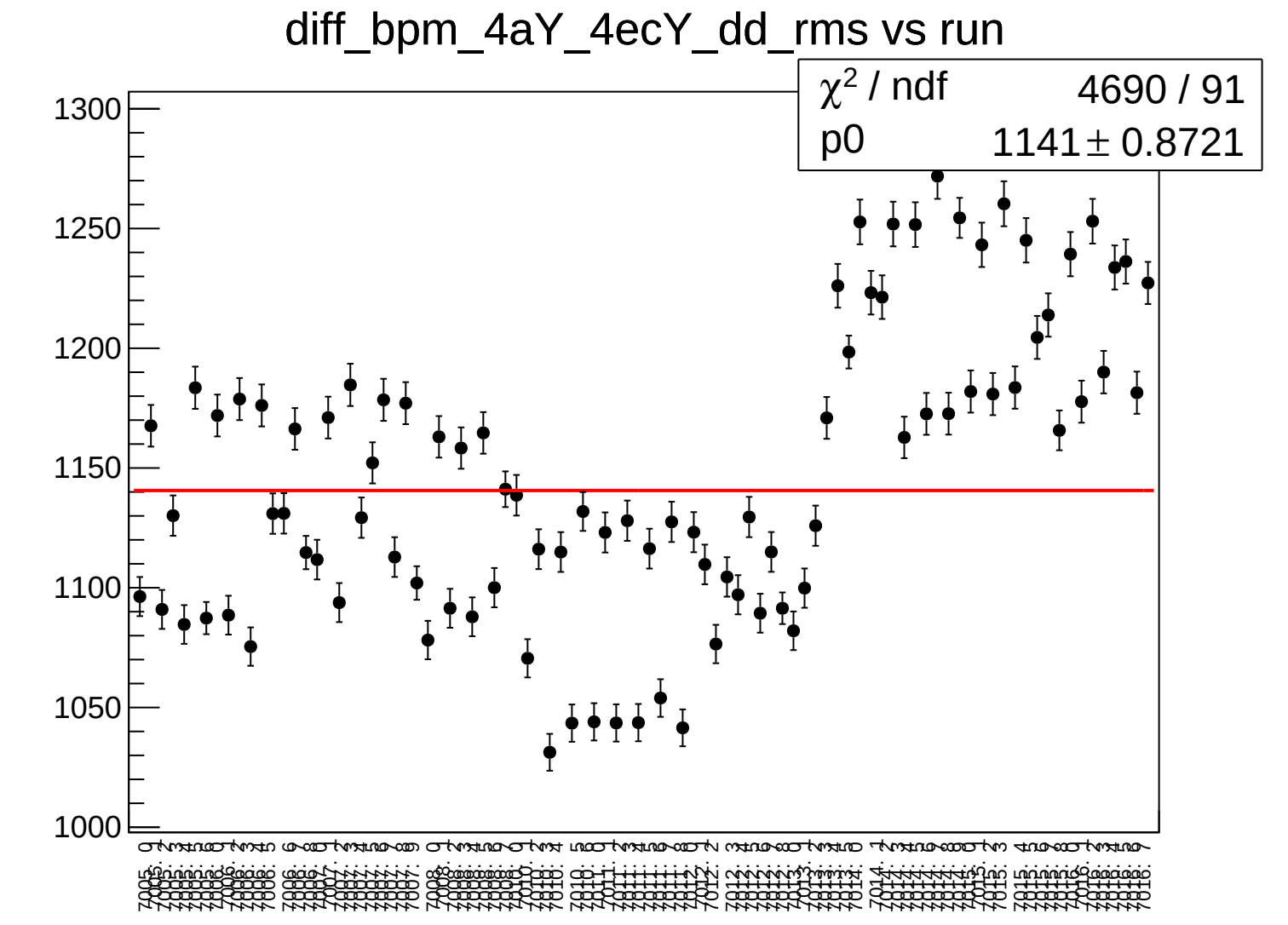

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.01e+04 / 91
p0 701.5 ± 0.5372
800
750
700
650
600

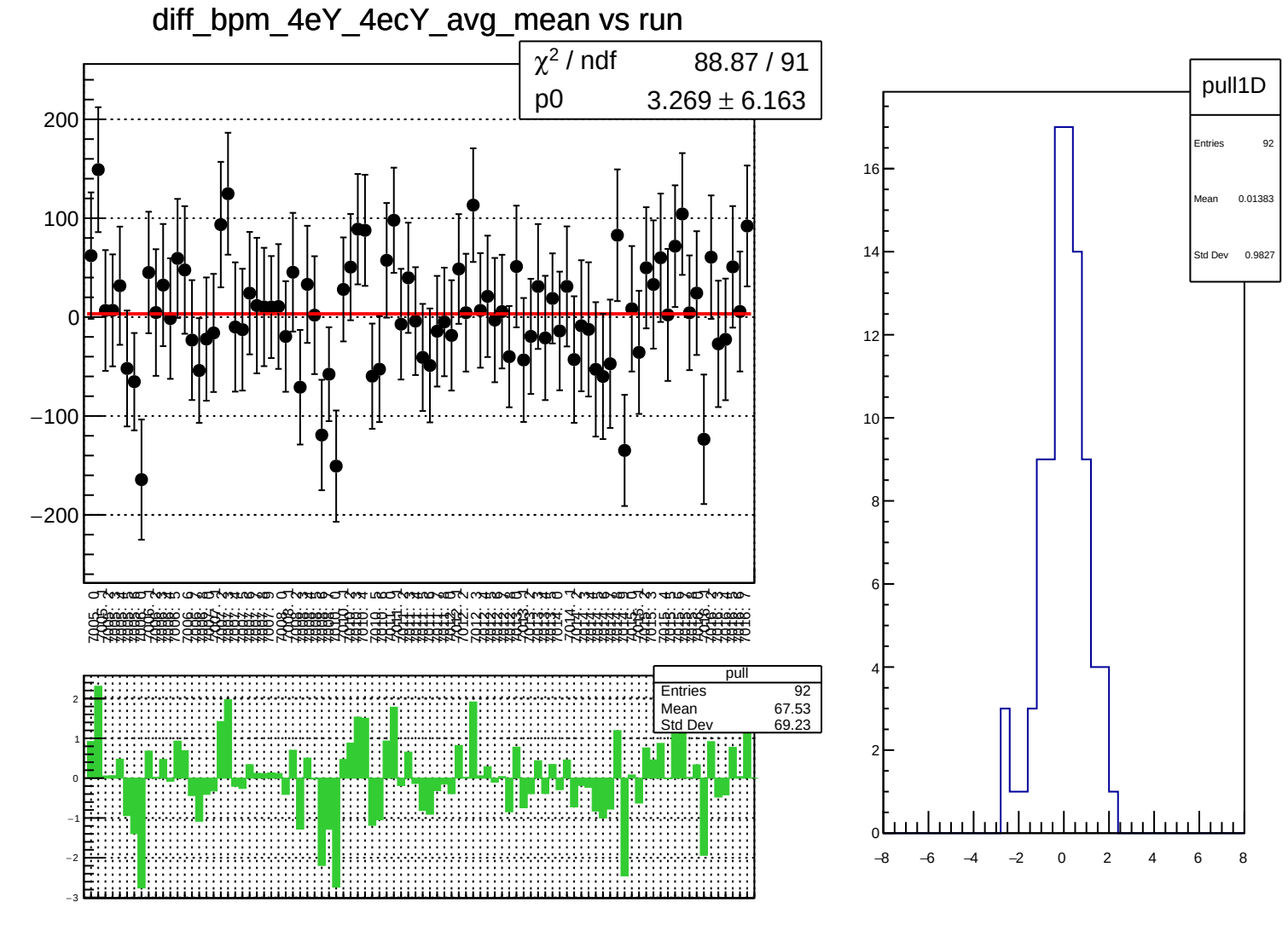

diff_bpm_4aY_4ecY_avg_mean vs run
$\chi^2$ / ndf 94.41 / 91
p0 1.952 ± 6.144
200
100
0
−100
−200
pull
Entries 92
Mean 71.71
Std Dev 76
2
1
0
−1
−2
−3

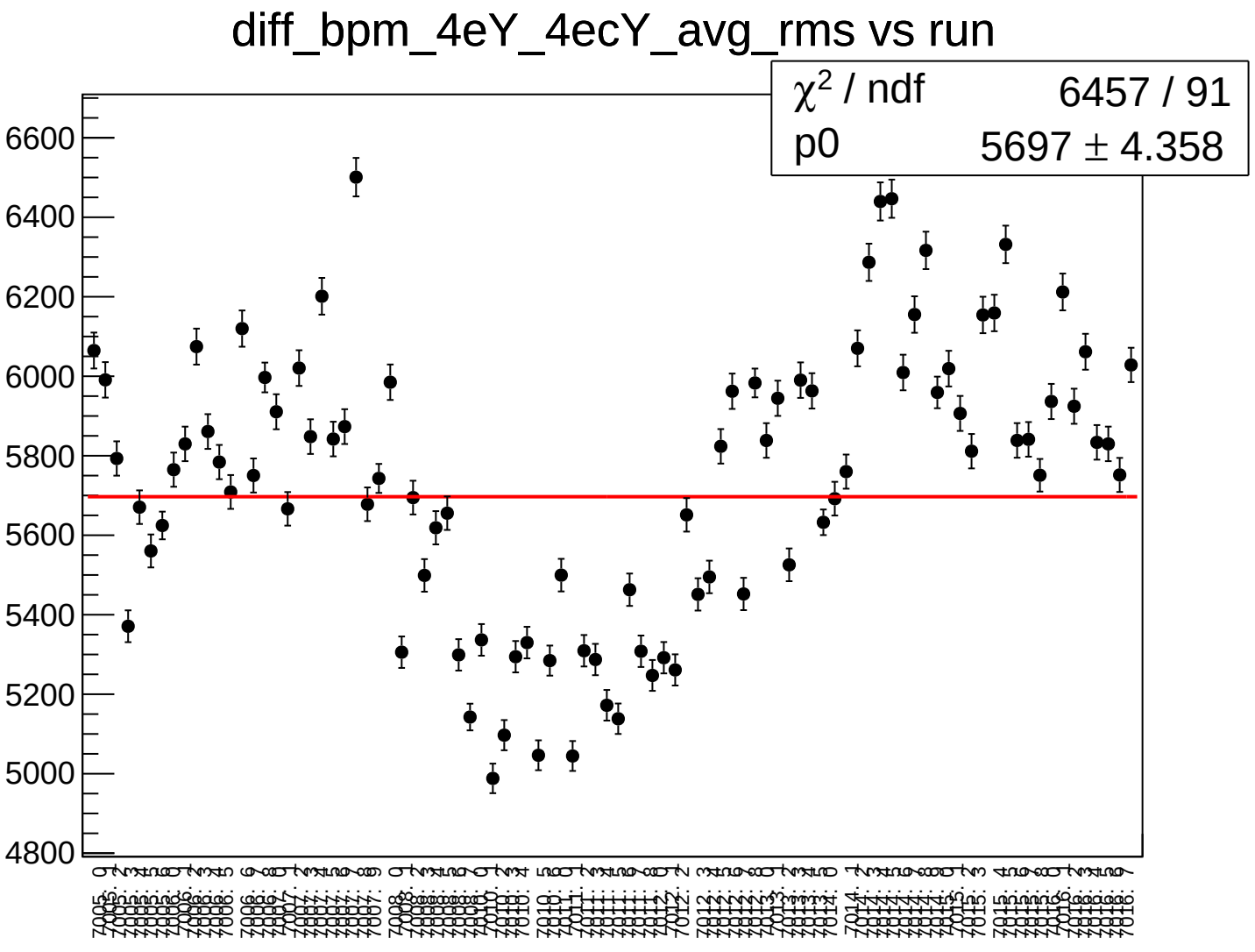

pull1D
Entries 92
Mean 0.01378
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

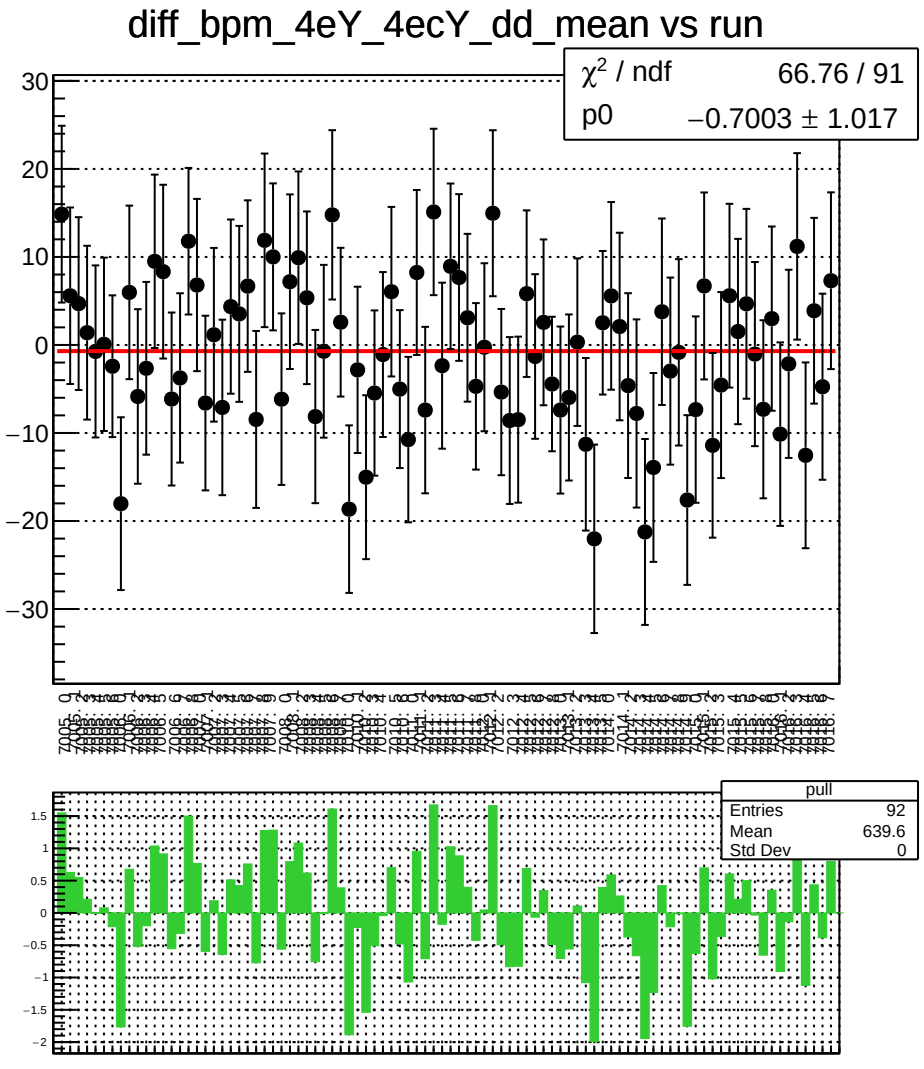

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 5564 / 91
p0 5681 ± 4.345
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

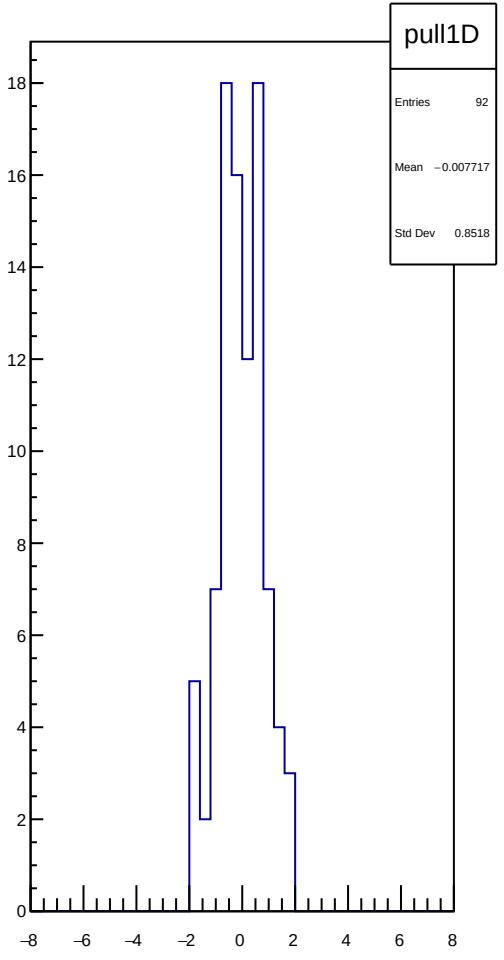

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 89.81 / 91
p0 −2.235 ± 1.233
pull
Entries 92
Mean −1588
Std Dev 0
pull1D
Entries 92
Mean 0.00199
Std Dev 0.988

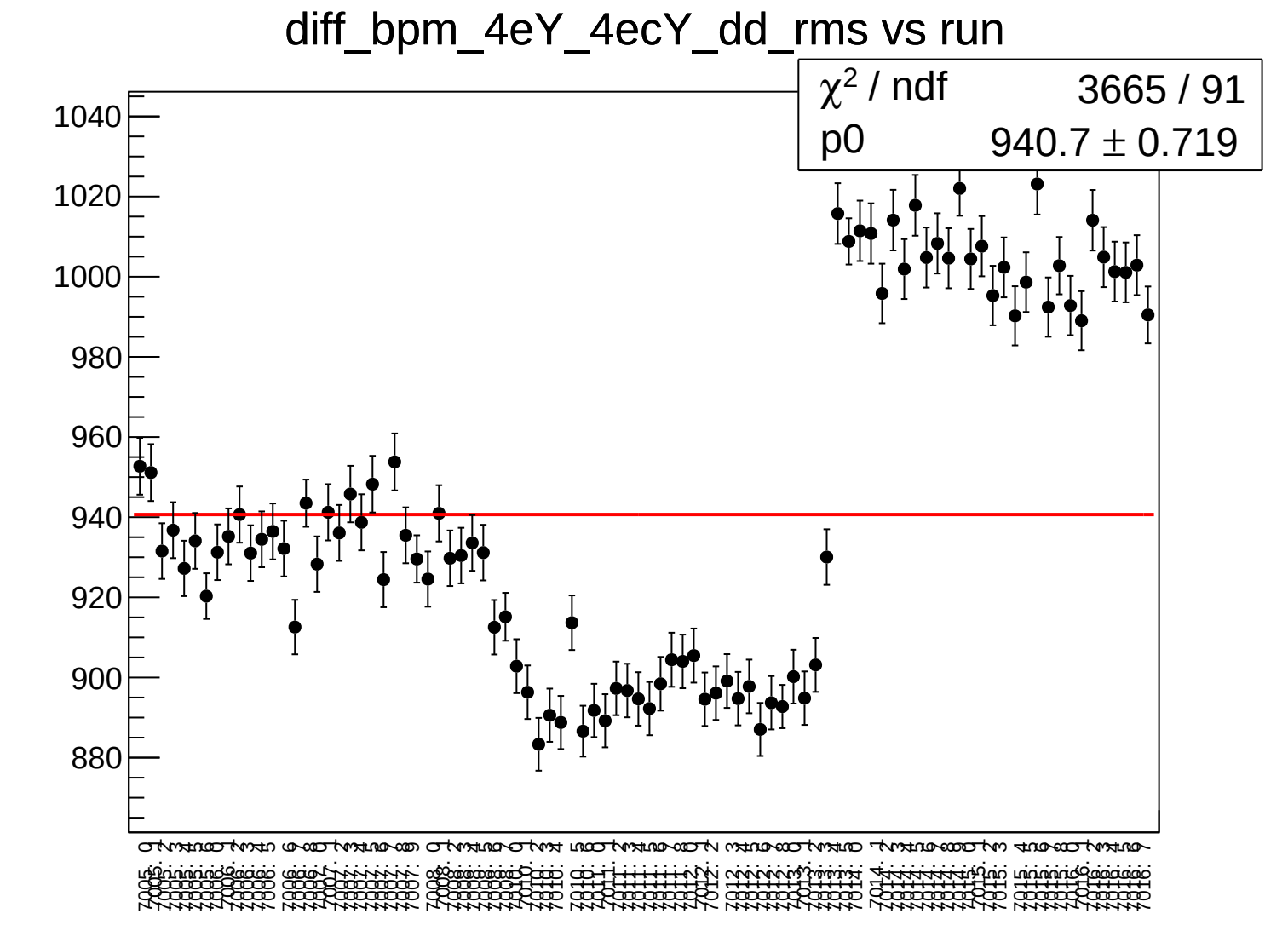

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 4690 / 91
p0 1141 ± 0.8721
1300
1250
1200
1150
1100
1050
1000

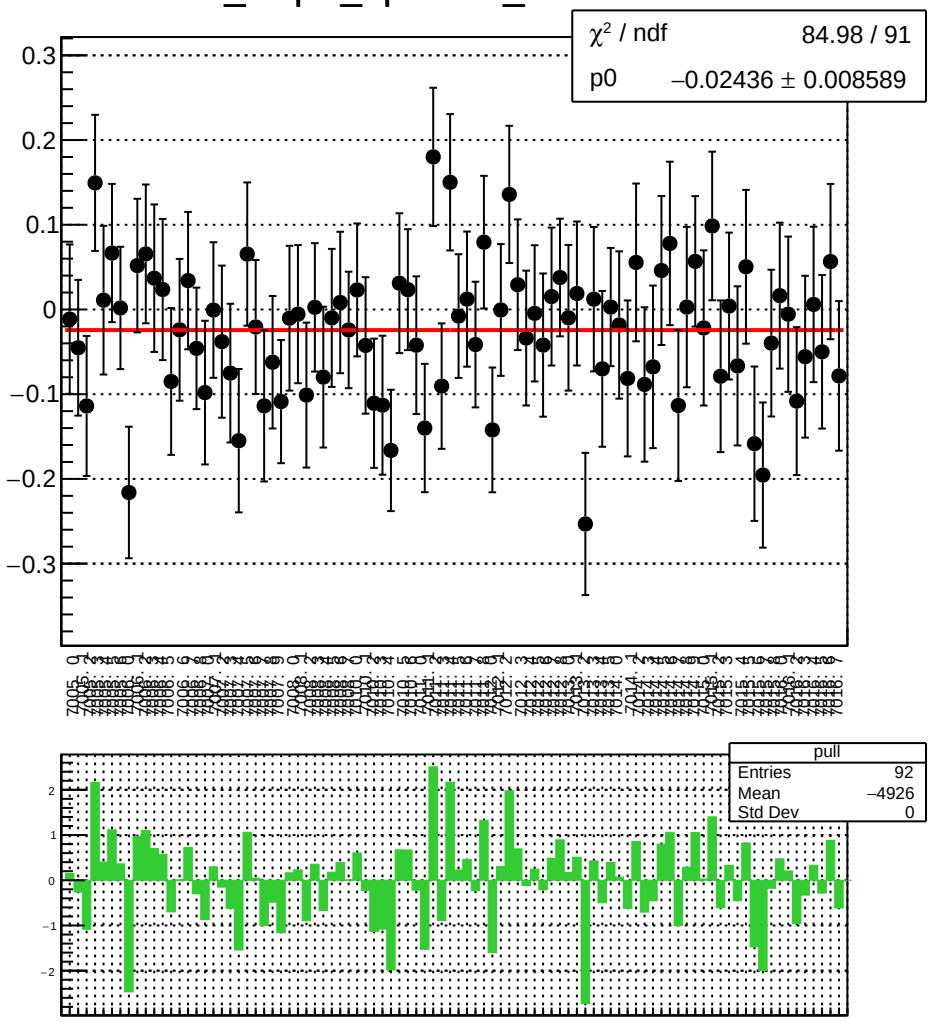

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 88.87 / 91
p0 3.269 ± 6.163
200
100
0
−100
−200
pull
Entries 92
Mean 67.53
Std Dev 69.23
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01383
Std Dev 0.9827
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

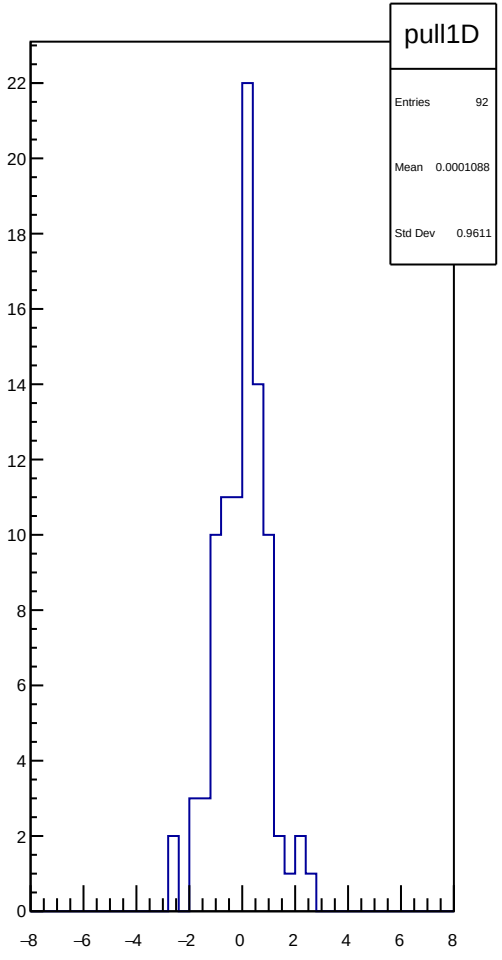

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 6457 / 91
p0 5697 ± 4.358
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

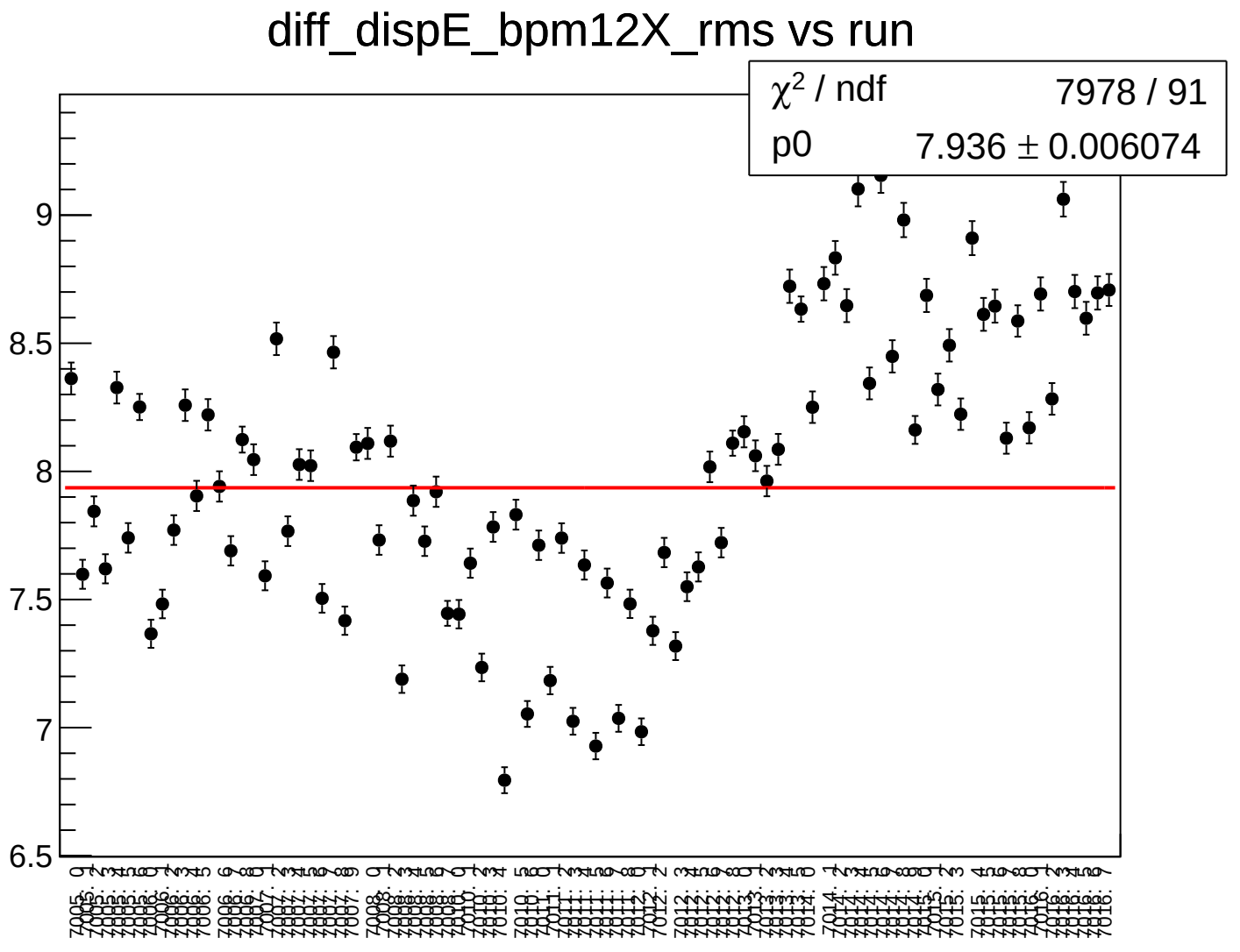

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 66.76 / 91
p0 −0.7003 ± 1.017
pull
Entries 92
Mean 639.6
Std Dev 0

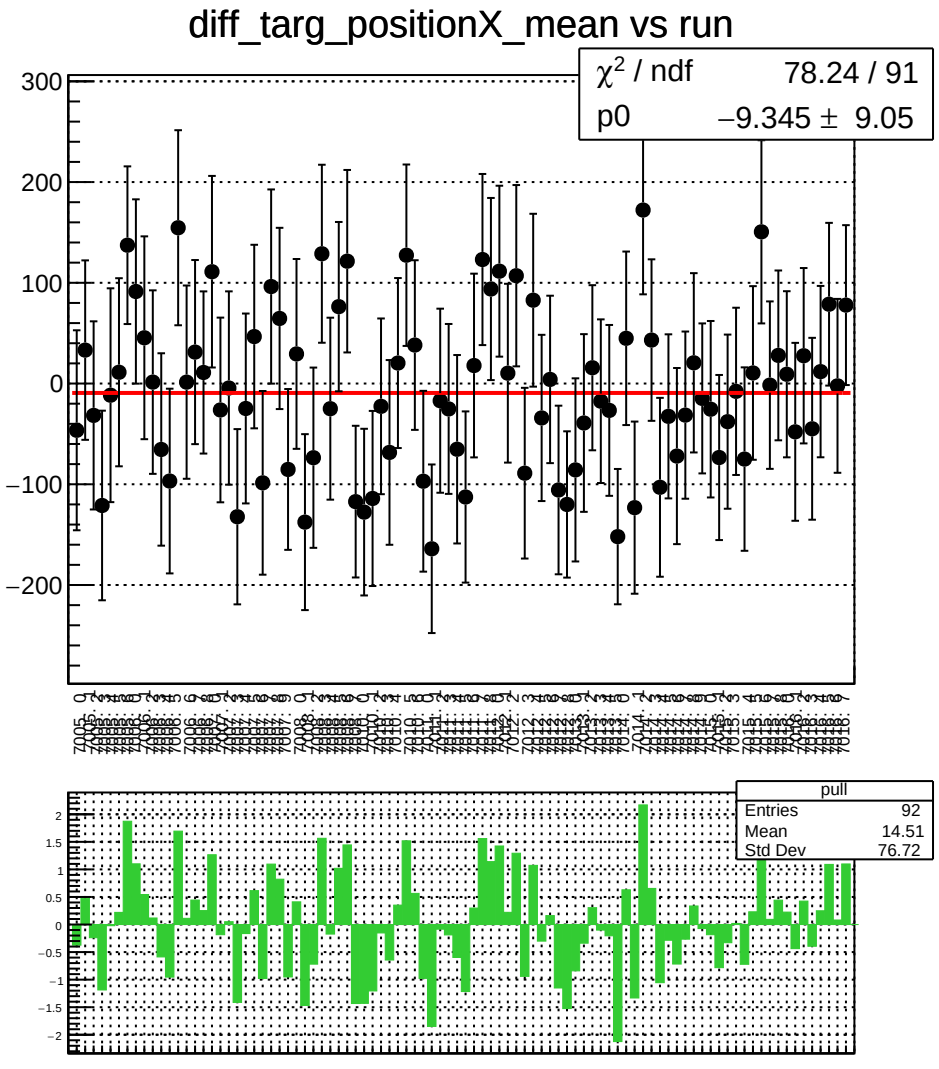

pull1D
Entries 92
Mean −0.007717
Std Dev 0.8518

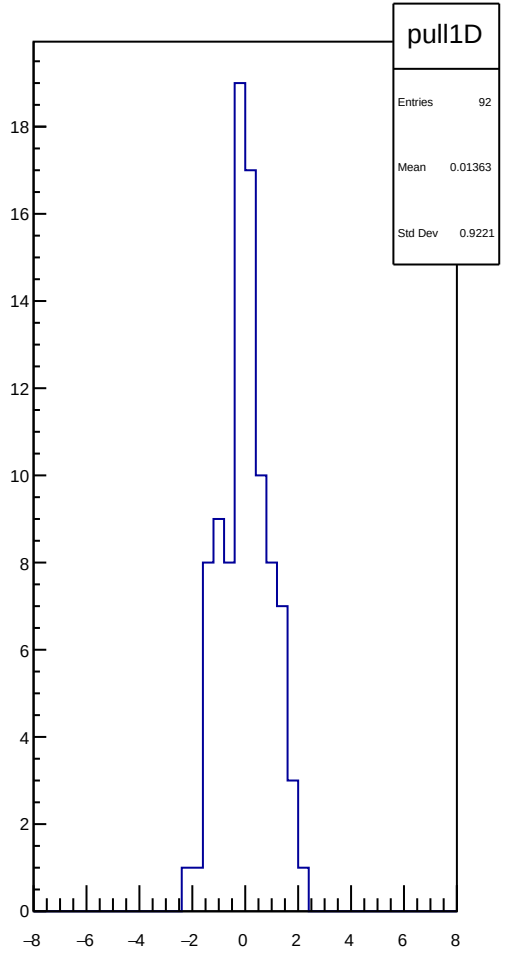

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 3665 / 91
p0 940.7 ± 0.719
1040
1020
1000
980
960
940
920
900
880

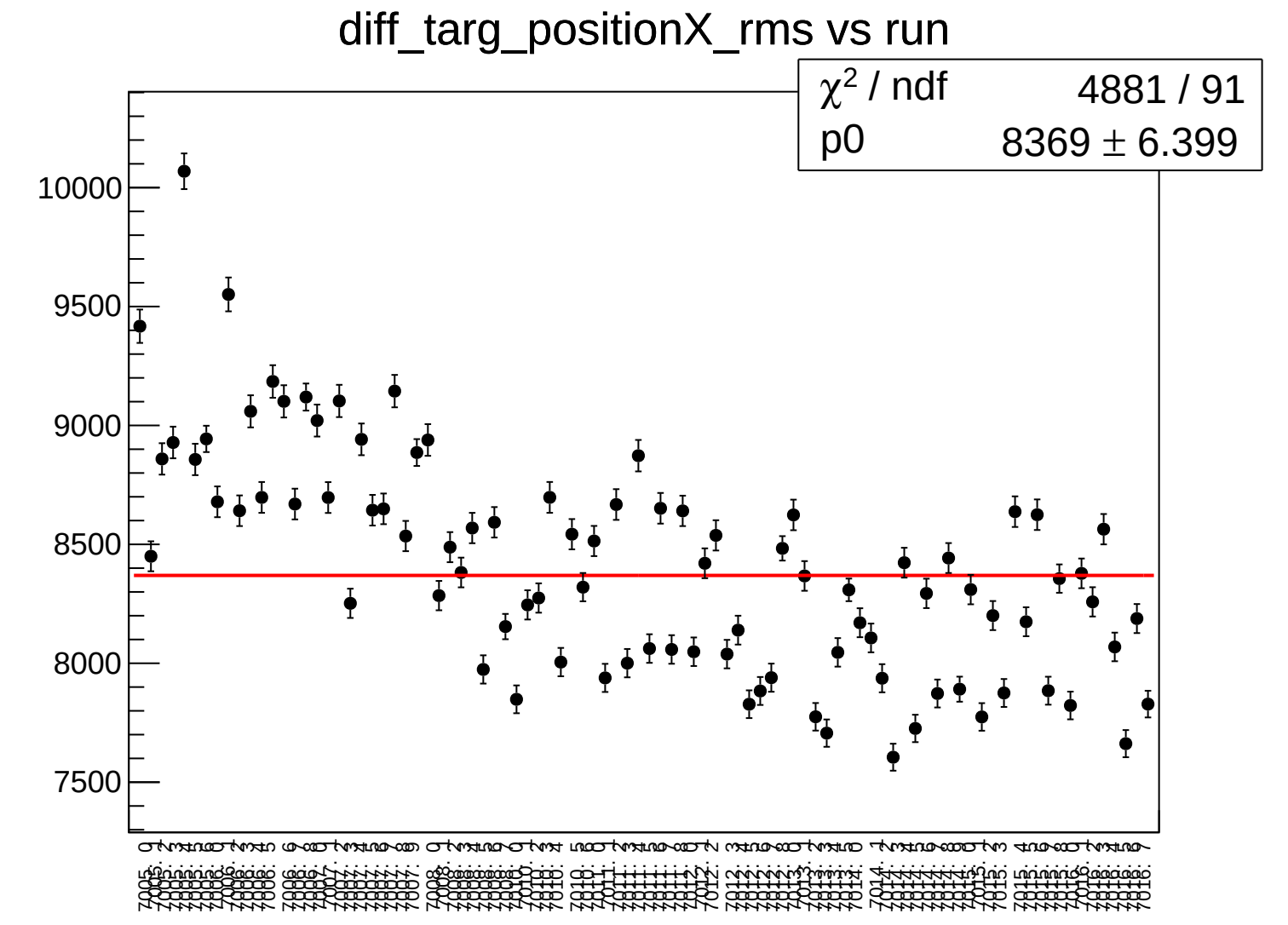

diff_dispE_bpm12X_mean vs run
χ² / ndf 84.98 / 91
p0 −0.02436 ± 0.008589
pull
Entries 92
Mean −4926
Std Dev 0

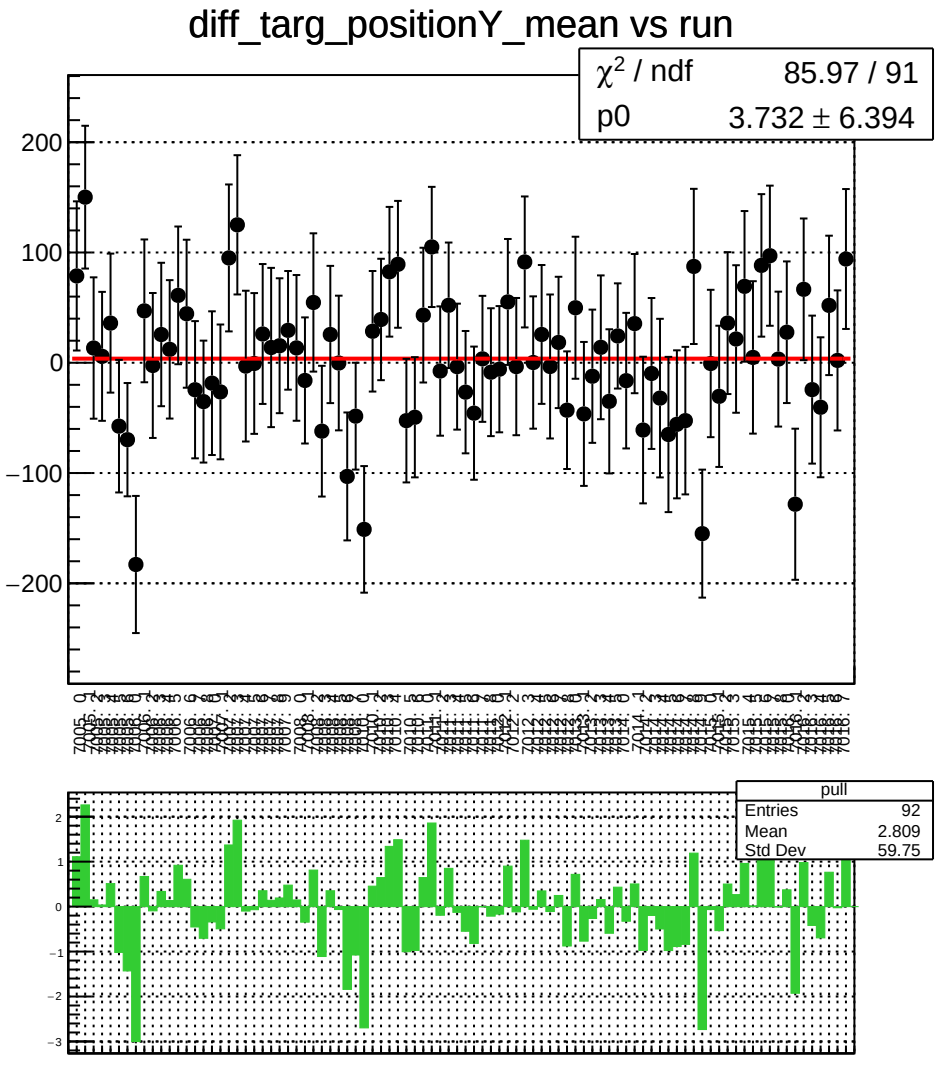

pull1D
Entries 92
Mean 0.0001088
Std Dev 0.9611

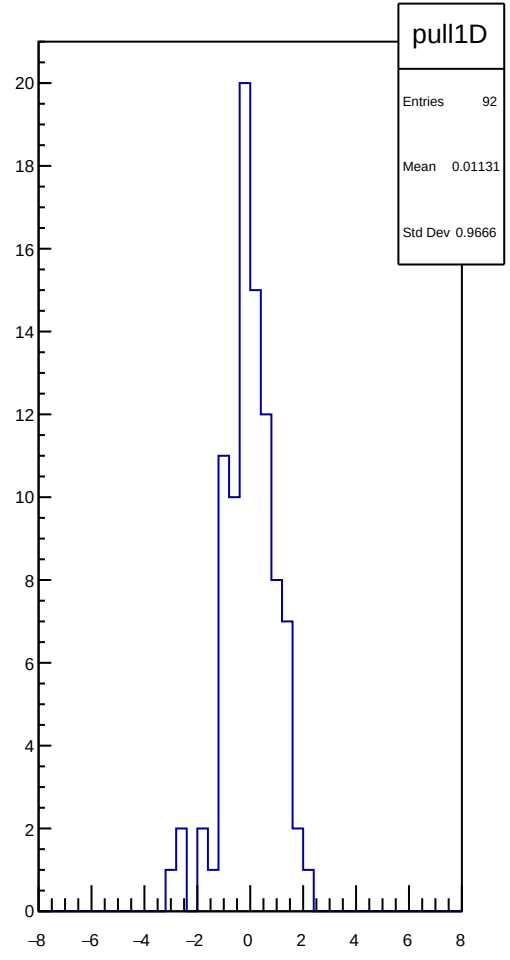

diff_dispE_bpm12X_rms vs run
χ² / ndf 7978 / 91
p0 7.936 ± 0.006074
9
8.5
8
7.5
7
6.5

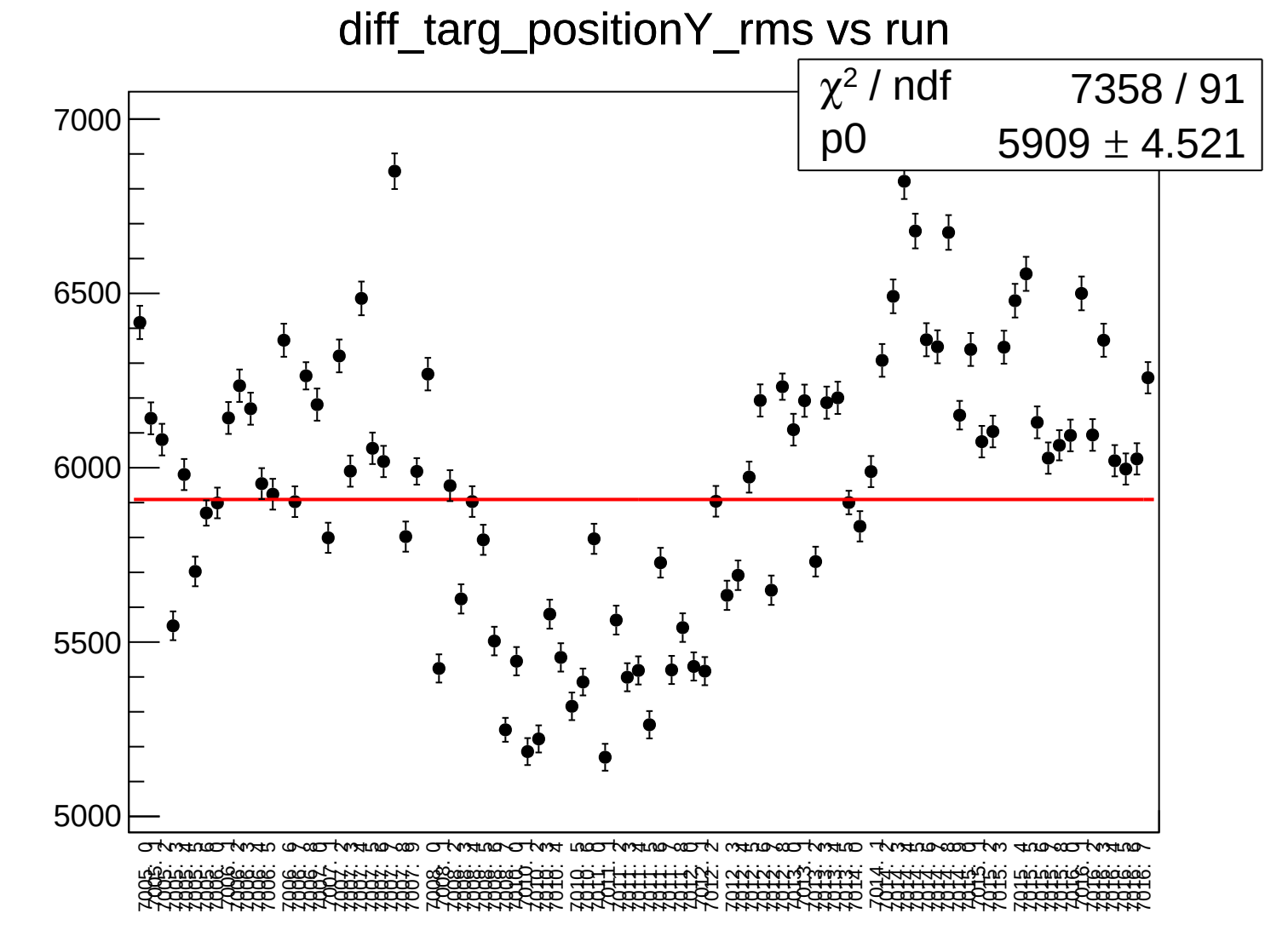

diff_targ_positionX_mean vs run
χ² / ndf 78.24 / 91
p0 −9.345 ± 9.05
300
200
100
0
−100
−200
pull
Entries 92
Mean 14.51
Std Dev 76.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

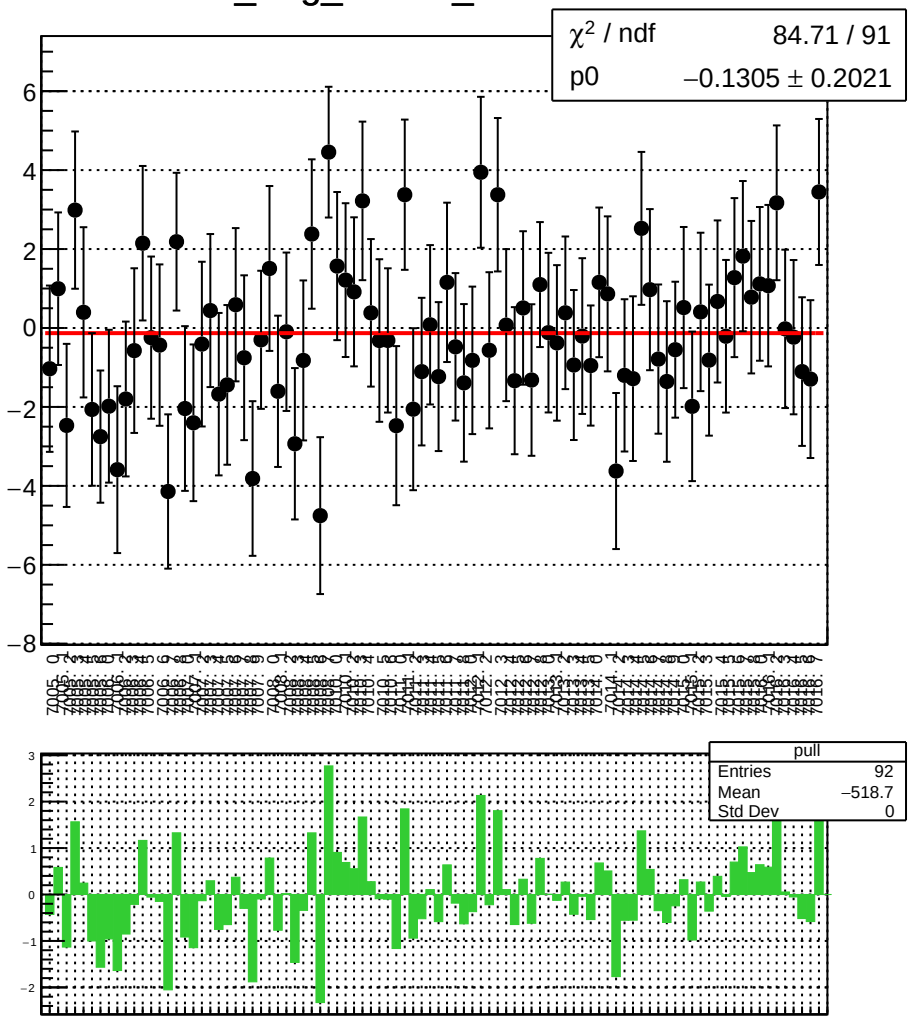

pull1D
Entries 92
Mean 0.01363
Std Dev 0.9221
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

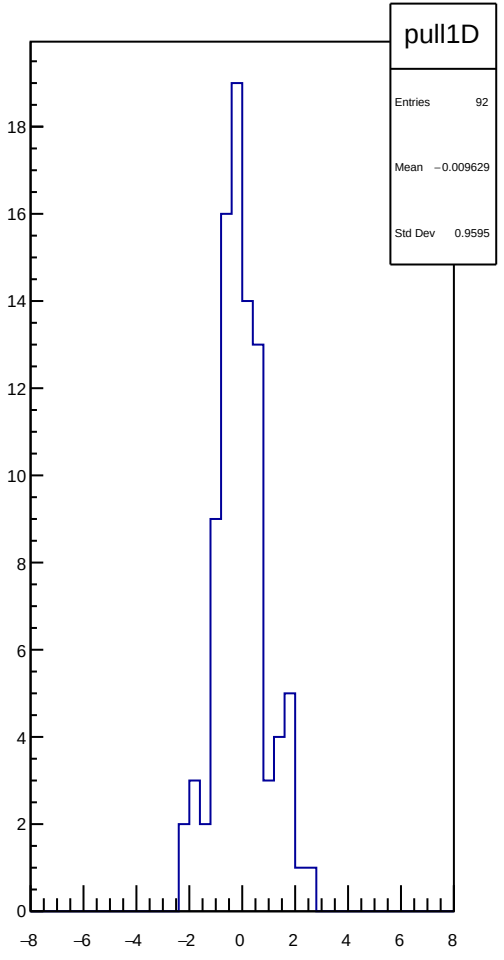

diff_targ_positionX_rms vs run
$\chi^2$ / ndf 4881 / 91
p0 8369 ± 6.399
10000
9500
9000
8500
8000
7500

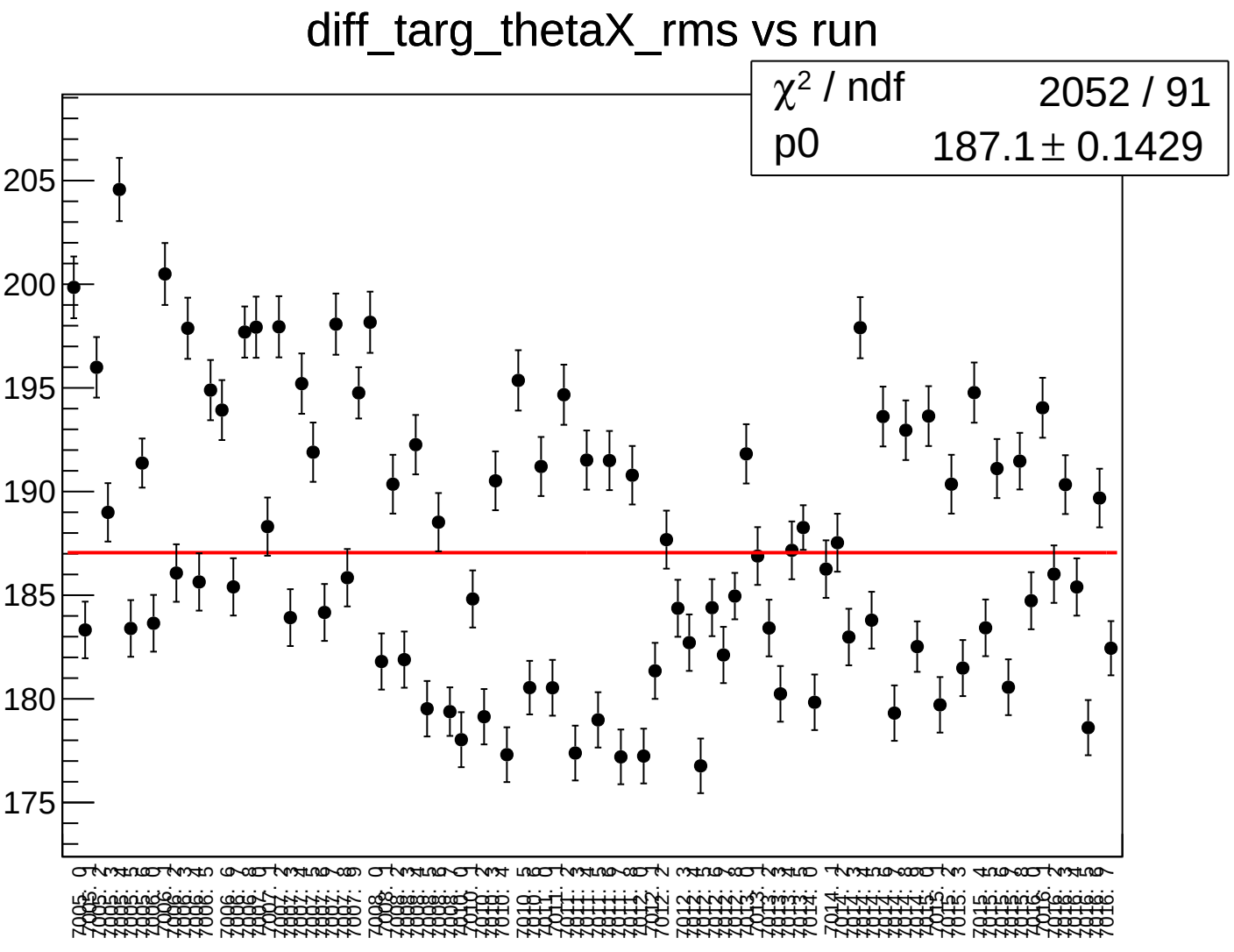

diff_targ_positionY_mean vs run
χ² / ndf 85.97 / 91
p0 3.732 ± 6.394
pull
Entries 92
Mean 2.809
Std Dev 59.75

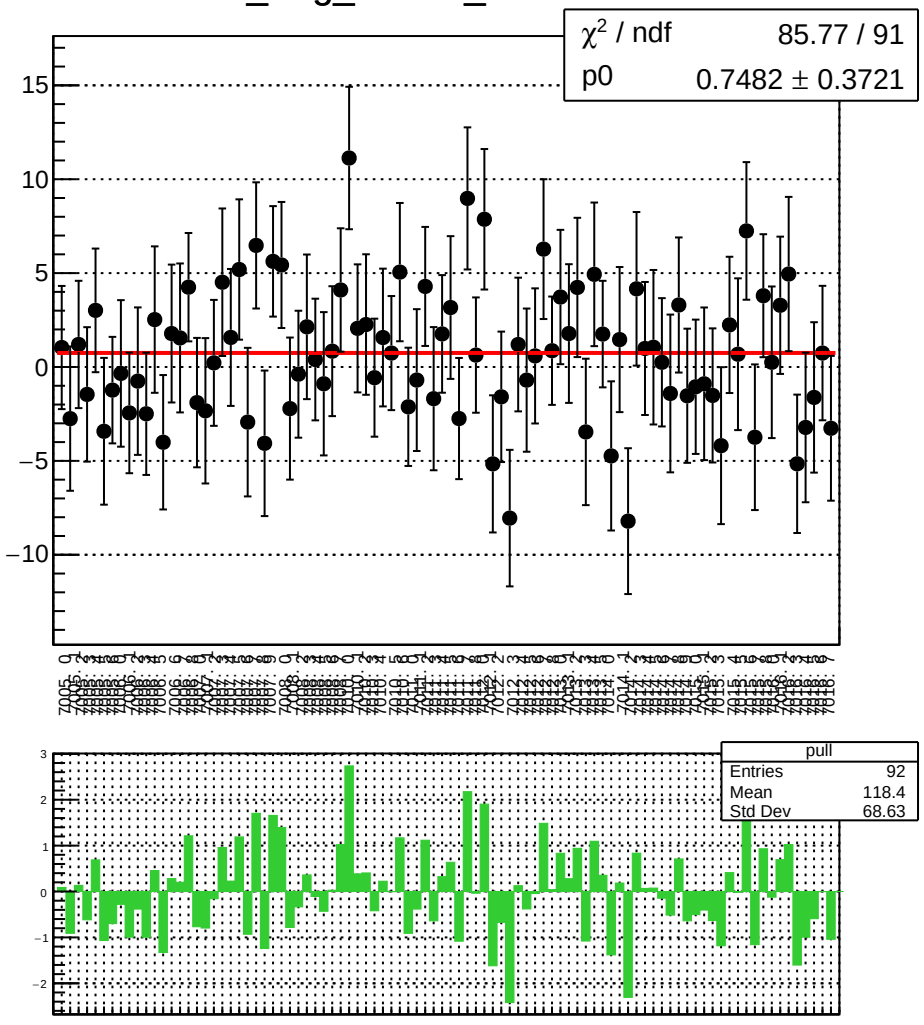

pull1D
Entries 92
Mean 0.01131
Std Dev 0.9666

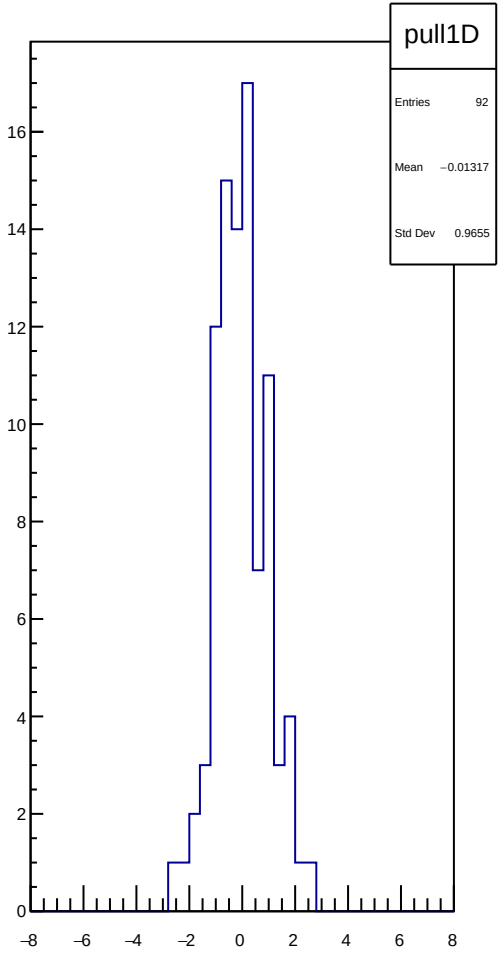

diff_targ_positionY_rms vs run
χ² / ndf 7358 / 91
p0 5909 ± 4.521
7000
6500
6000
5500
5000

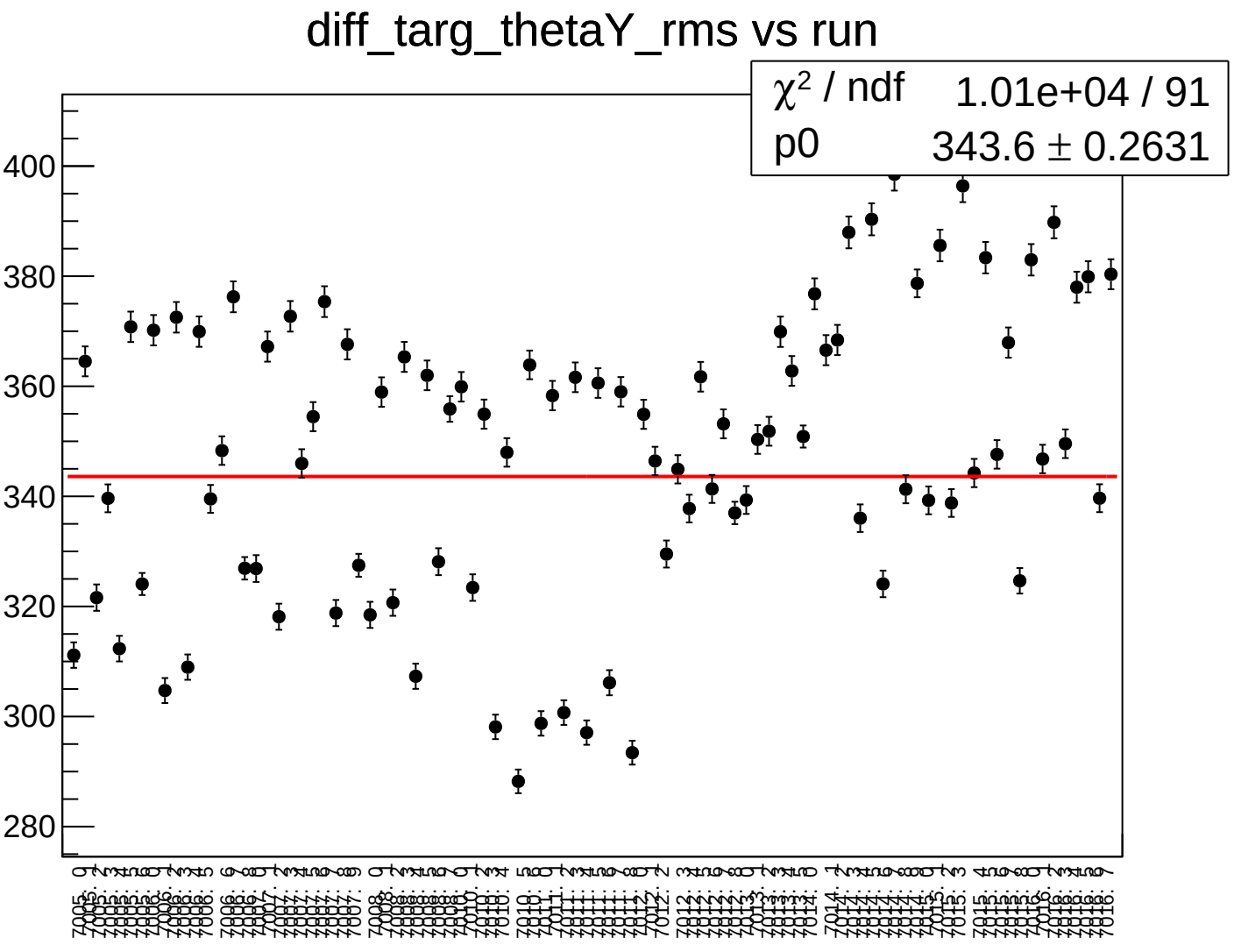

diff_targ_thetaX_mean vs run
χ² / ndf 84.71 / 91
p0 −0.1305 ± 0.2021
pull
Entries 92
Mean −518.7
Std Dev 0

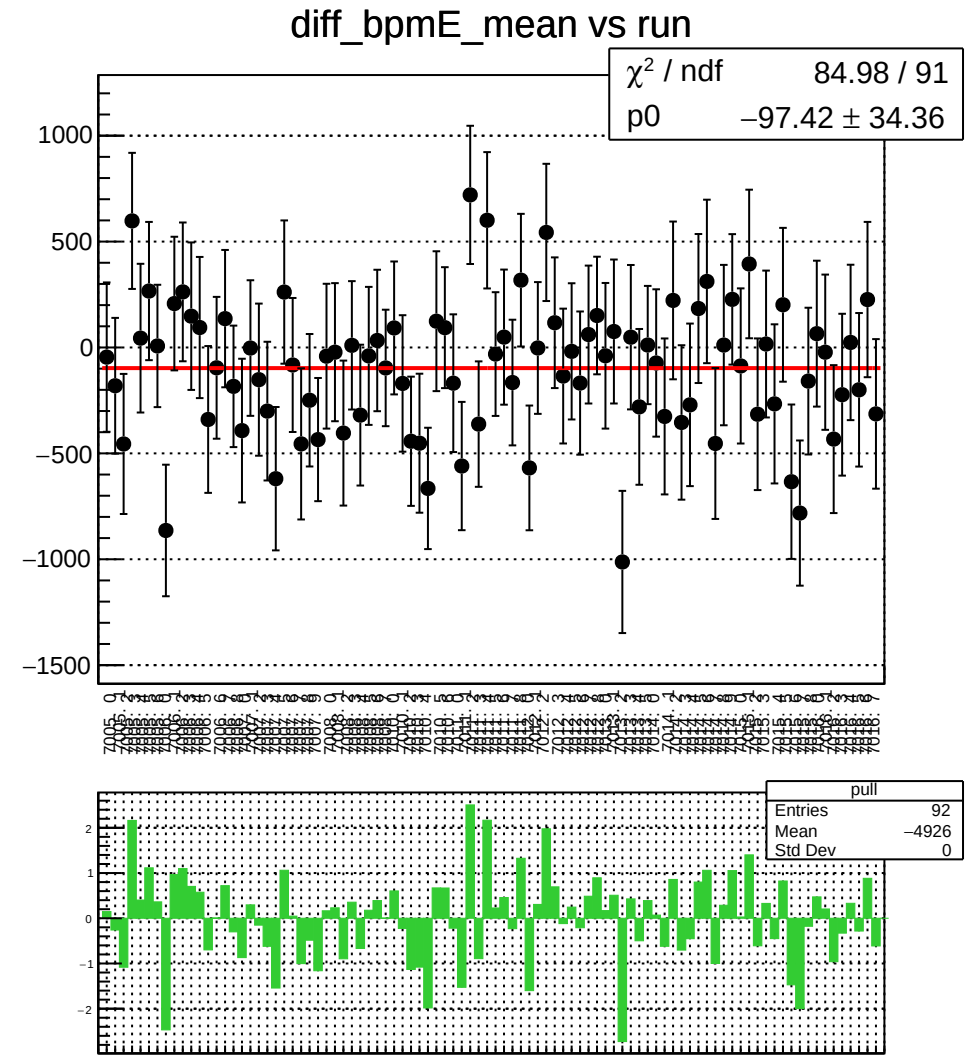

pull1D
Entries 92
Mean −0.009629
Std Dev 0.9595

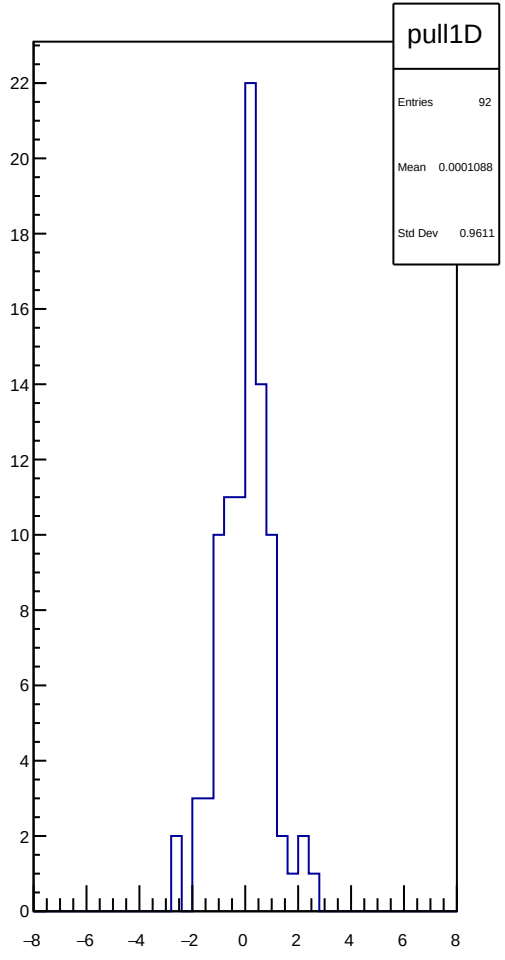

diff_targ_thetaX_rms vs run
χ² / ndf 2052 / 91
p0 187.1 ± 0.1429
205
200
195
190
185
180
175

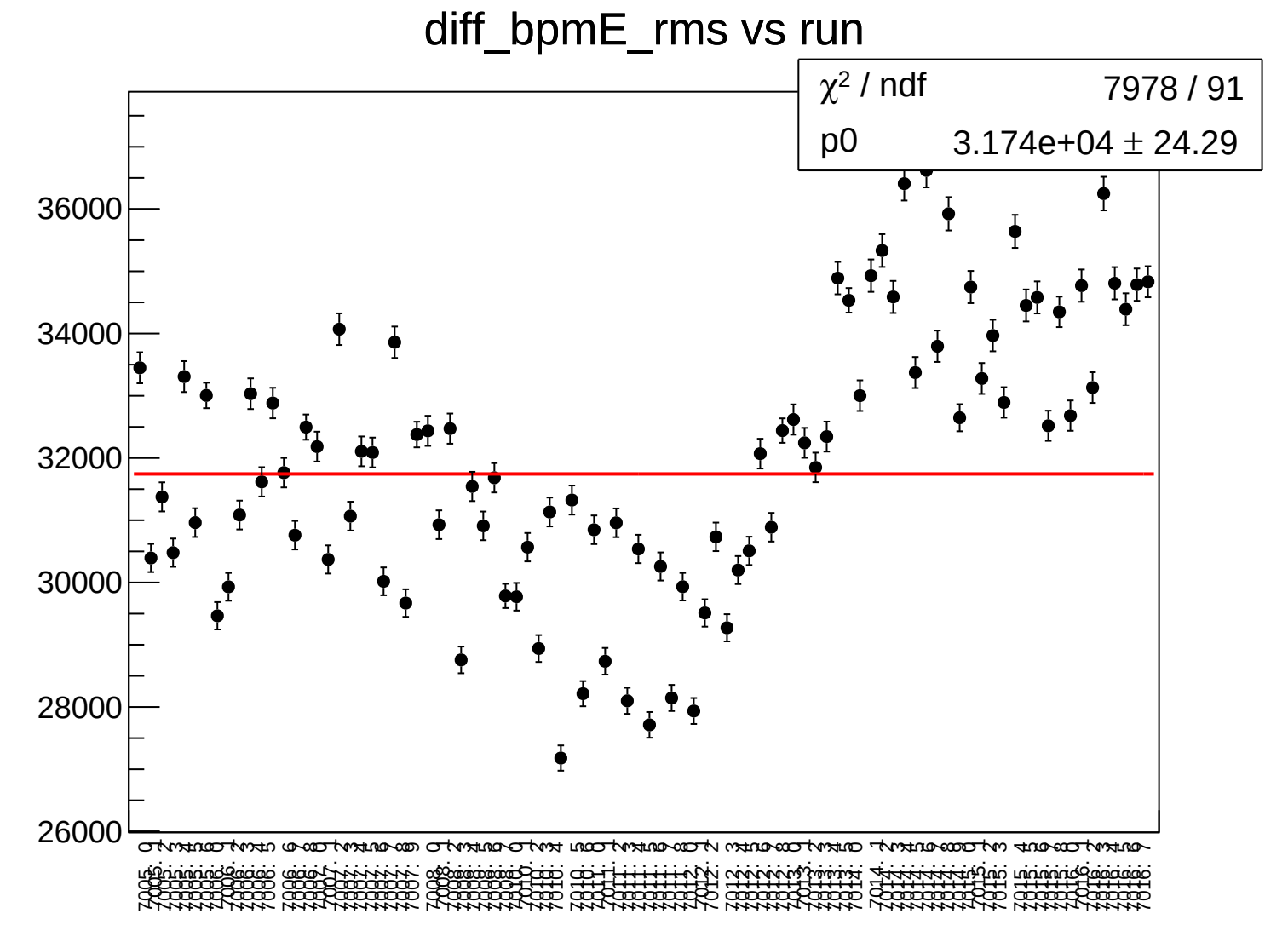

diff_targ_thetaY_mean vs run
χ² / ndf 85.77 / 91
p0 0.7482 ± 0.3721
pull
Entries 92
Mean 118.4
Std Dev 68.63

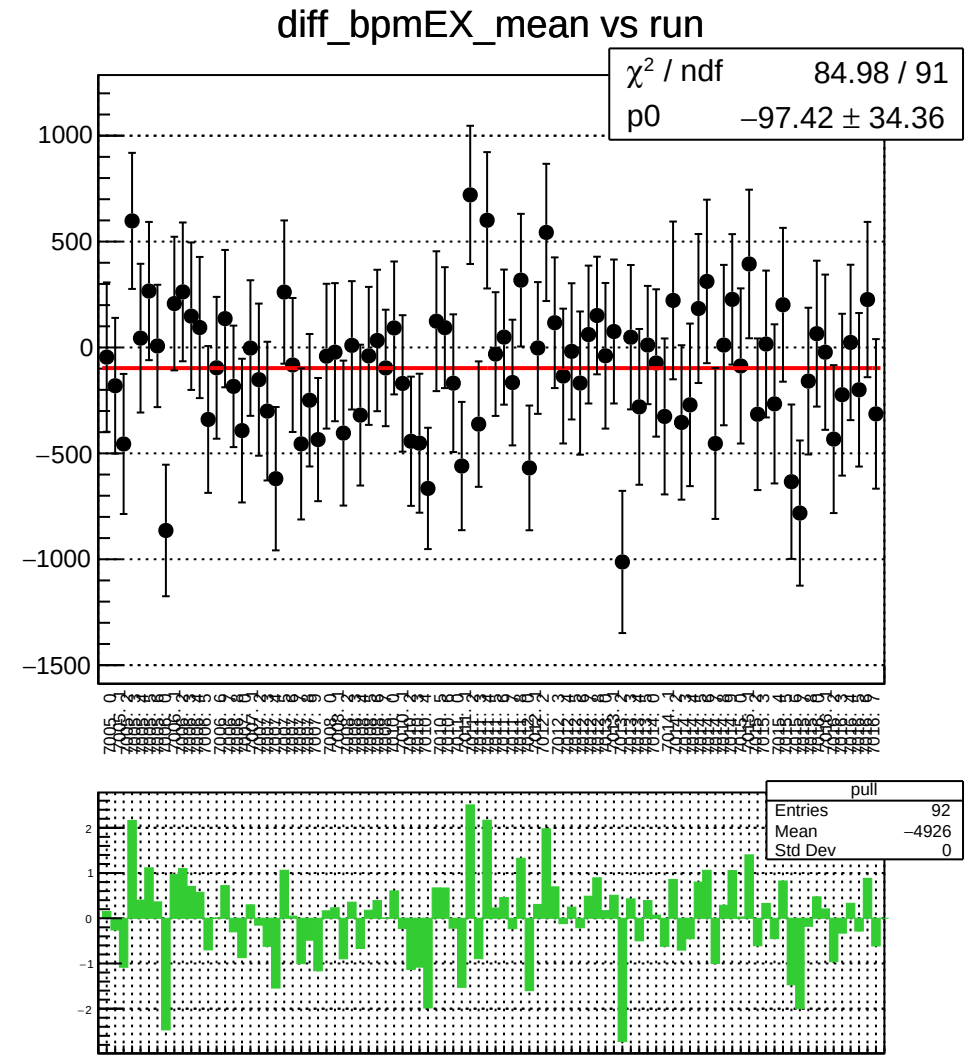

pull1D
Entries 92
Mean −0.01317
Std Dev 0.9655

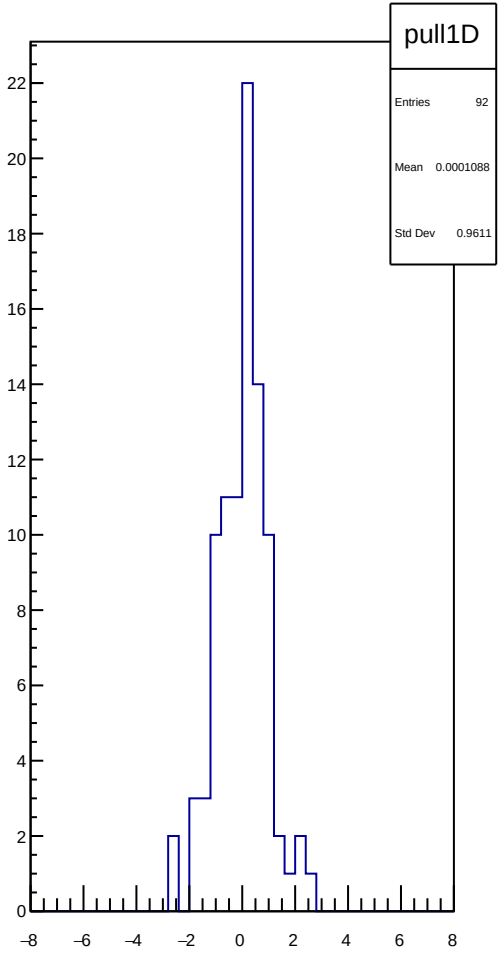

diff_targ_thetaY_rms vs run
χ² / ndf 1.01e+04 / 91
p0 343.6 ± 0.2631
400
380
360
340
320
300
280

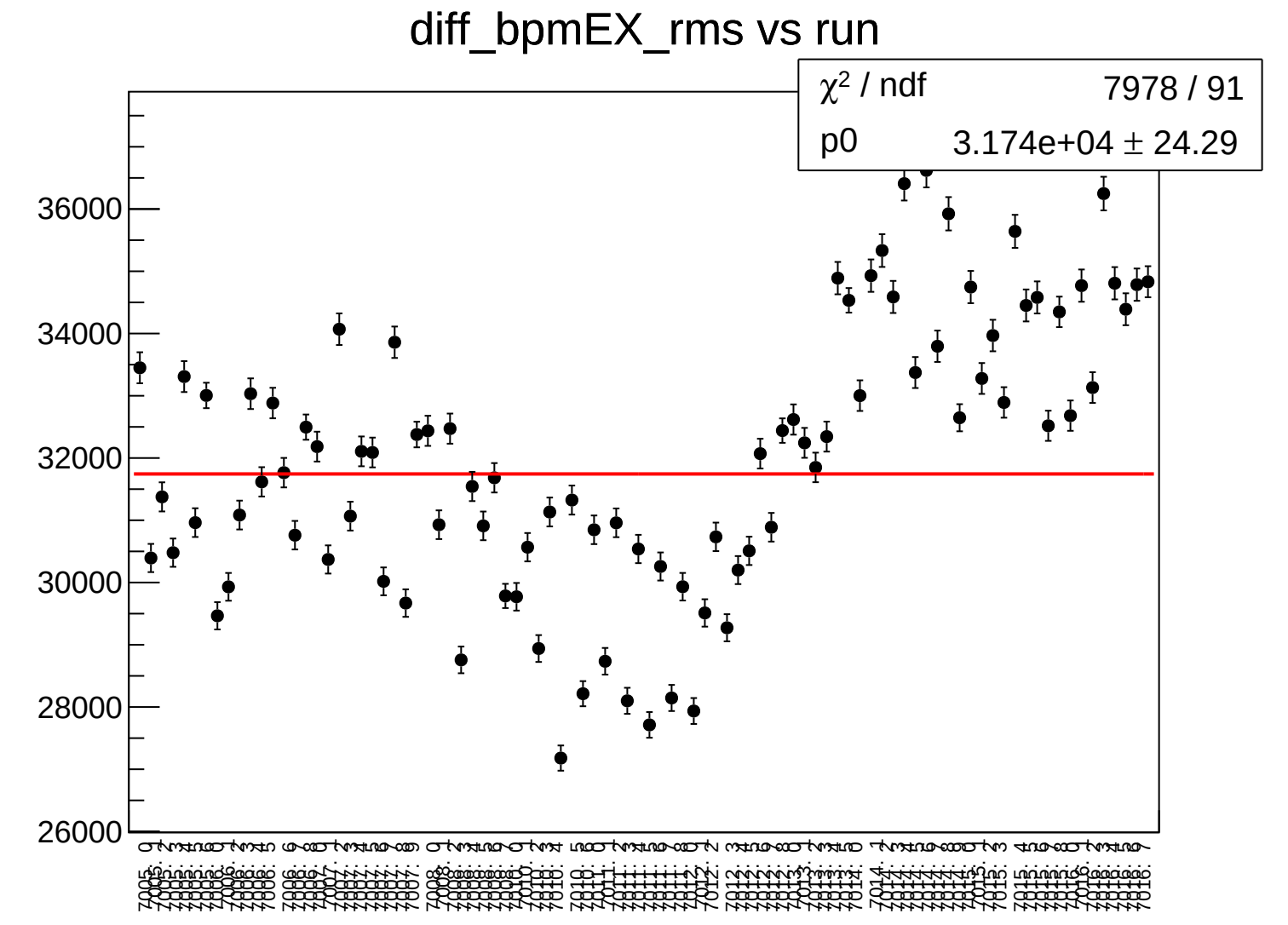

diff_bpmE_mean vs run
χ² / ndf 84.98 / 91
p0 −97.42 ± 34.36
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −4926
Std Dev 0
2
1
0
−1
−2

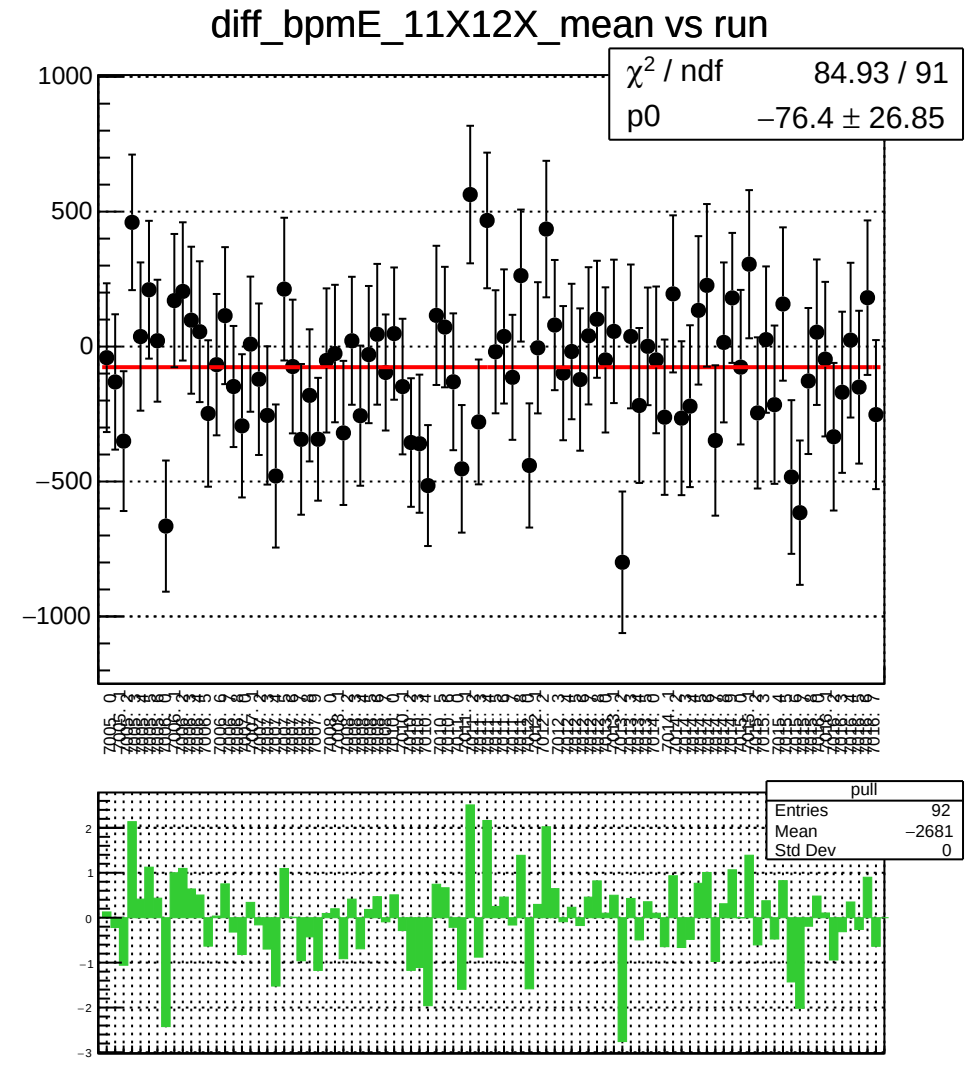

pull1D
Entries 92
Mean 0.0001088
Std Dev 0.9611
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

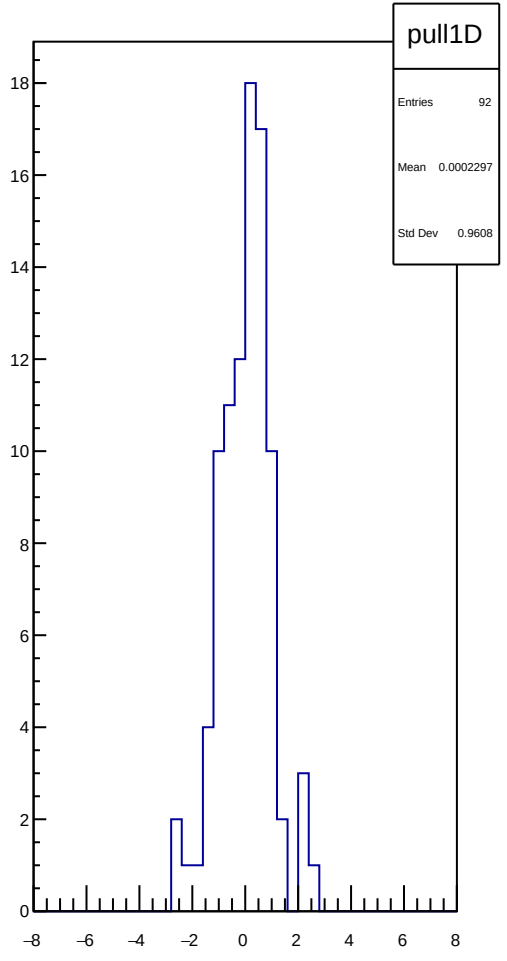

diff_bpmE_rms vs run
χ² / ndf 7978 / 91
p0 3.174e+04 ± 24.29
36000
34000
32000
30000
28000
26000

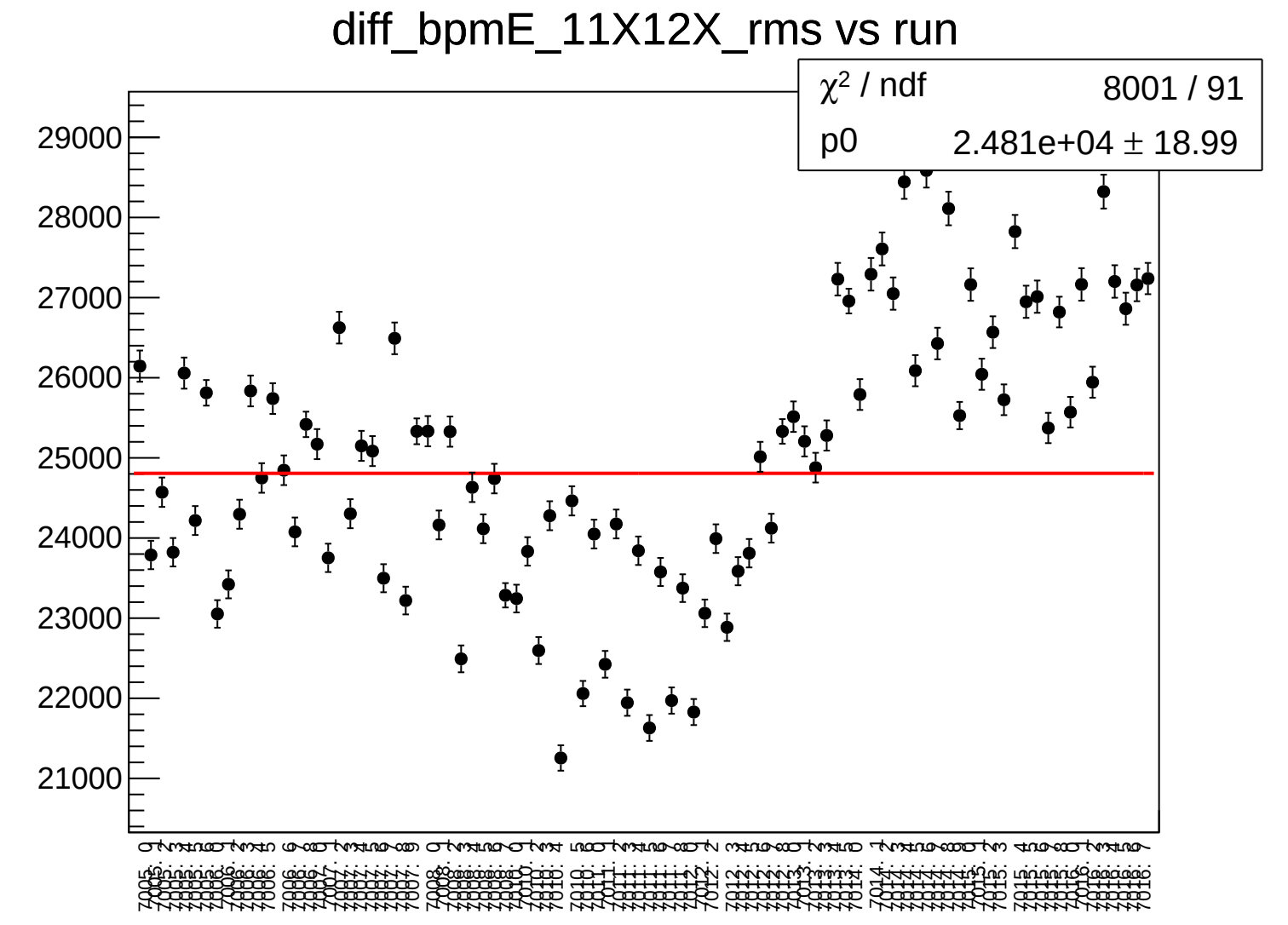

diff_bpmEX_mean vs run
χ² / ndf 84.98 / 91
p0 −97.42 ± 34.36
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −4926
Std Dev 0
2
1
0
−1
−2

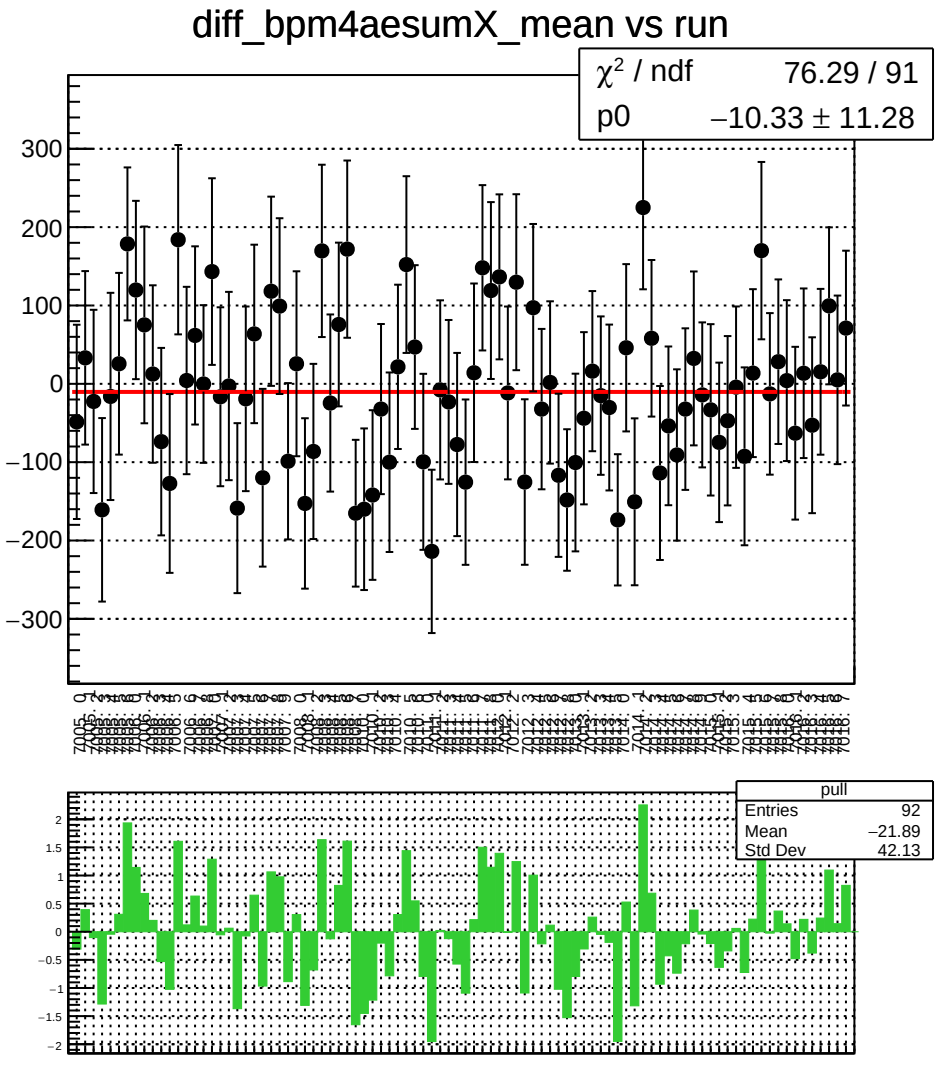

pull1D
Entries 92
Mean 0.0001088
Std Dev 0.9611
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

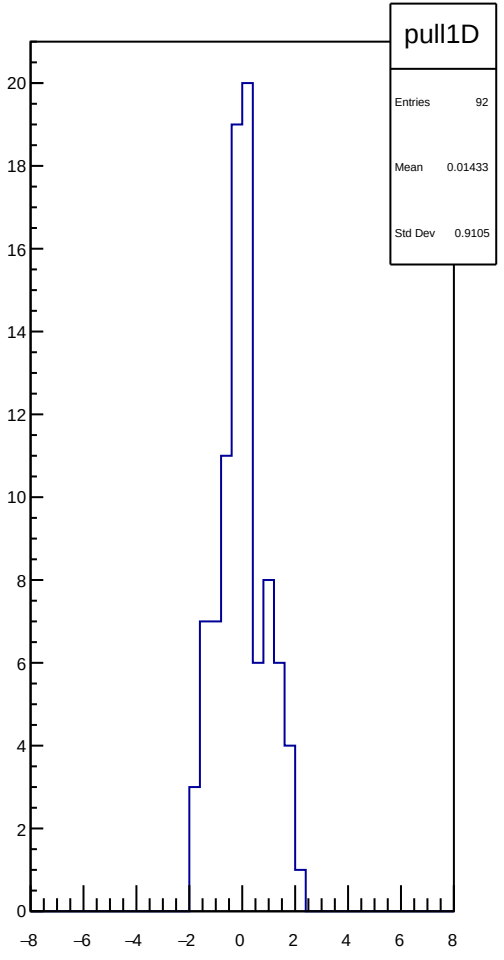

diff_bpmEX_rms vs run
χ² / ndf 7978 / 91
p0 3.174e+04 ± 24.29
36000
34000
32000
30000
28000
26000

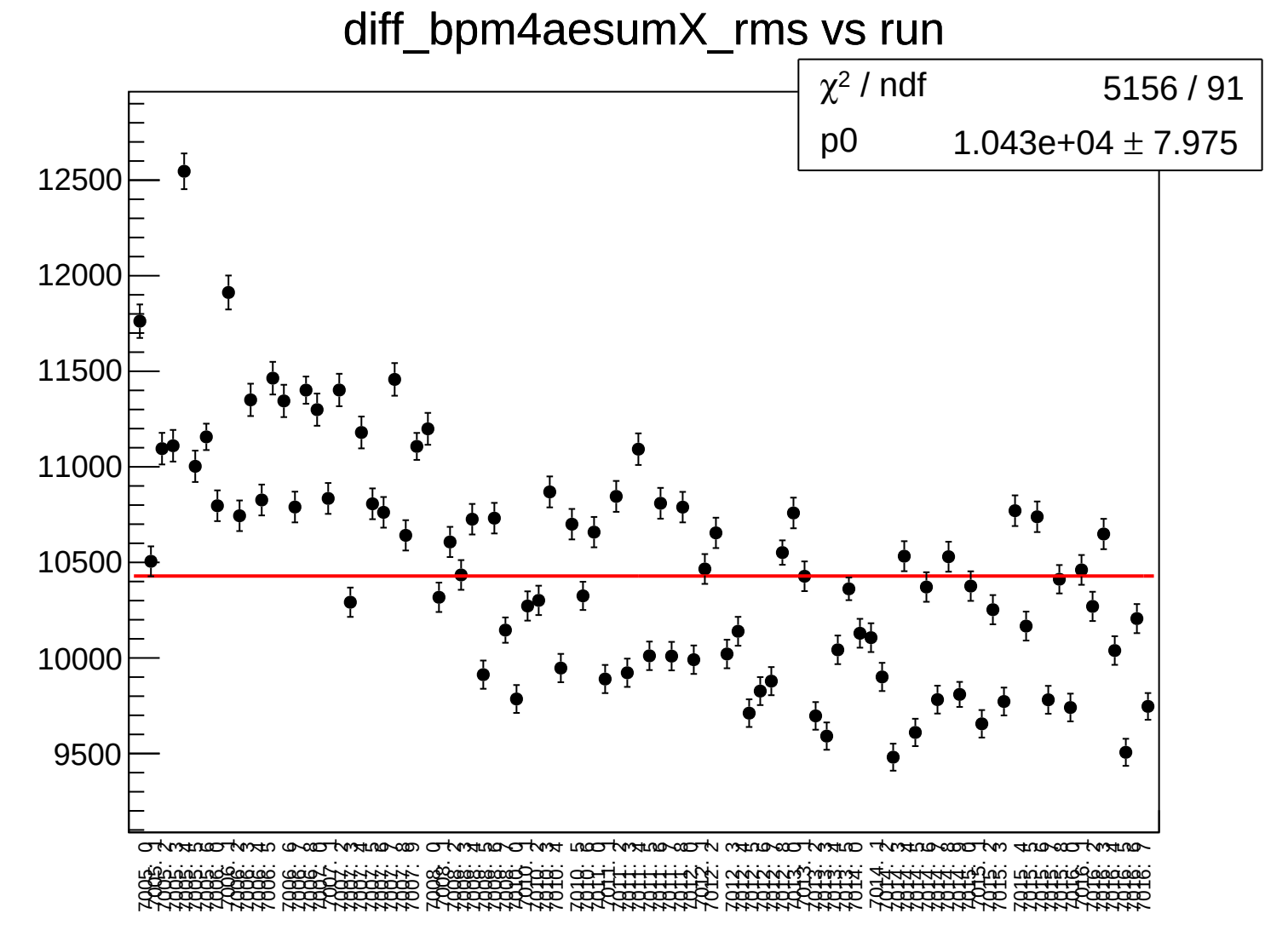

diff_bpmE_11X12X_mean vs run
χ² / ndf 84.93 / 91
p0 −76.4 ± 26.85
1000
500
0
−500
−1000
pull
Entries 92
Mean −2681
Std Dev 0
2
1
0
−1
−2
−3

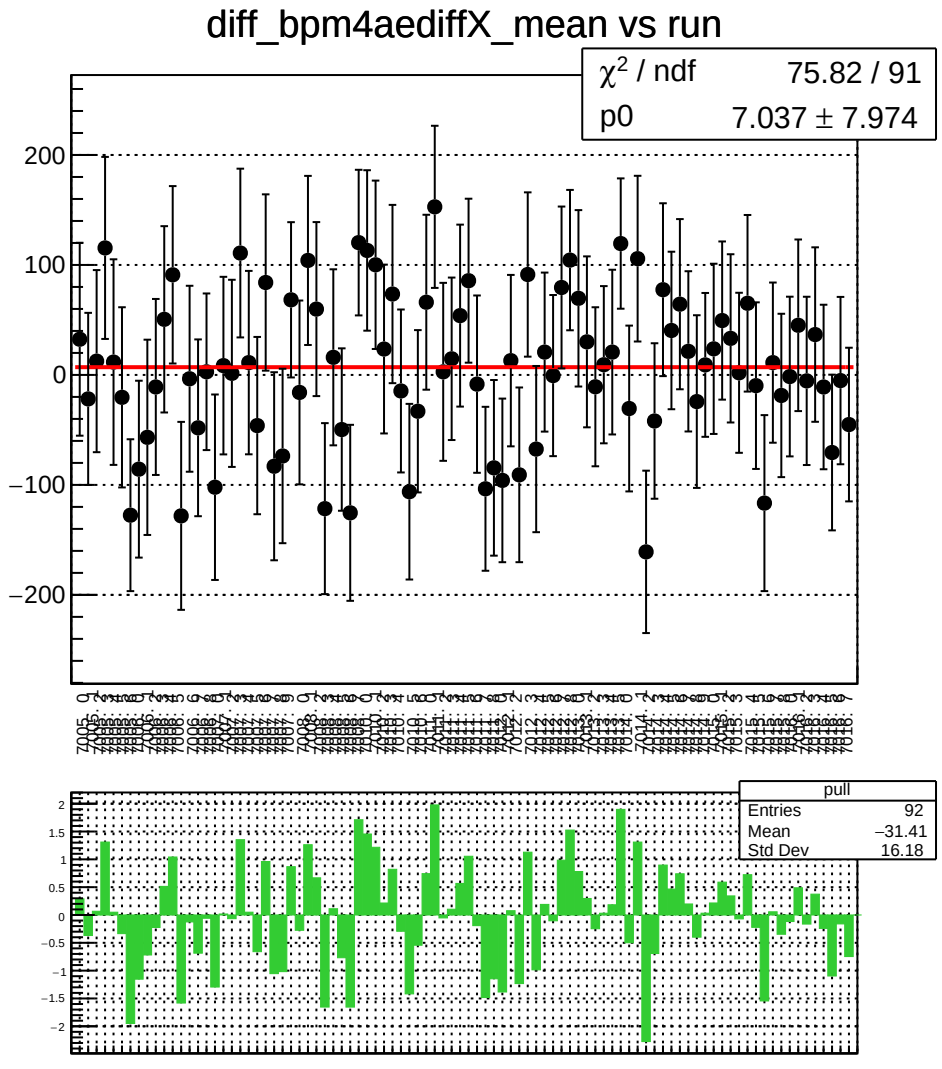

pull1D
Entries 92
Mean 0.0002297
Std Dev 0.9608
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

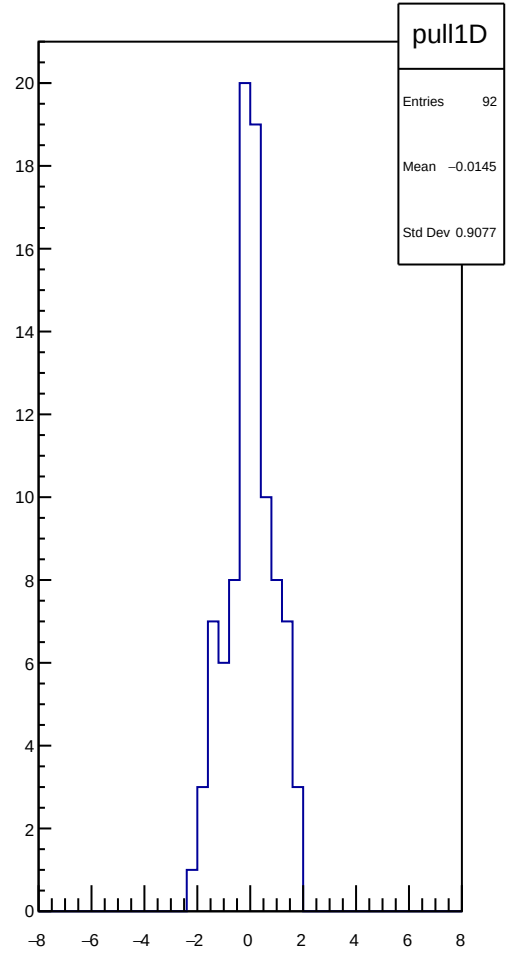

diff_bpmE_11X12X_rms vs run
χ² / ndf 8001 / 91
p0 2.481e+04 ± 18.99
29000
28000
27000
26000
25000
24000
23000
22000
21000

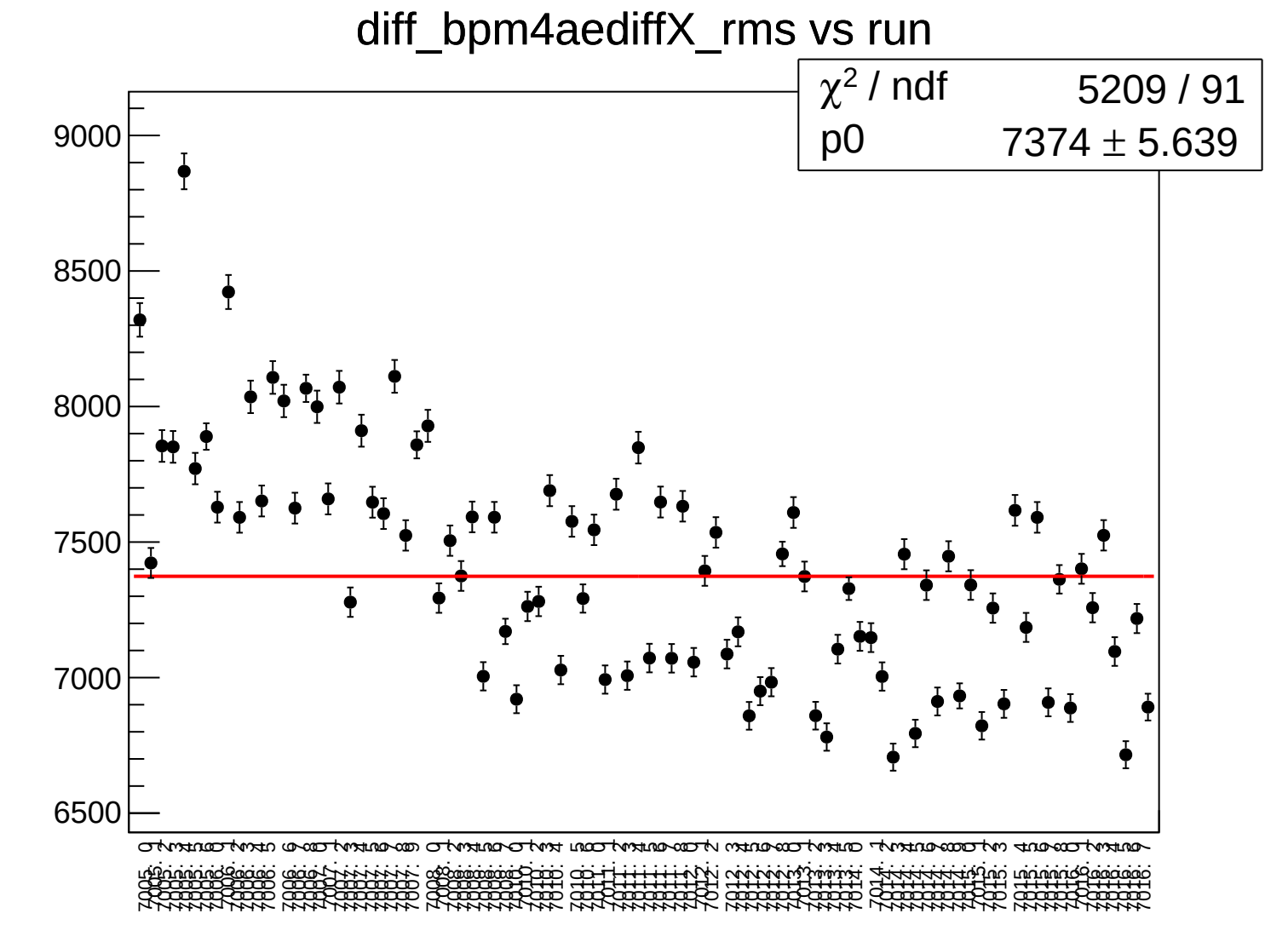

diff_bpm4aesumX_mean vs run
χ² / ndf 76.29 / 91
p0 −10.33 ± 11.28
pull
Entries 92
Mean −21.89
Std Dev 42.13

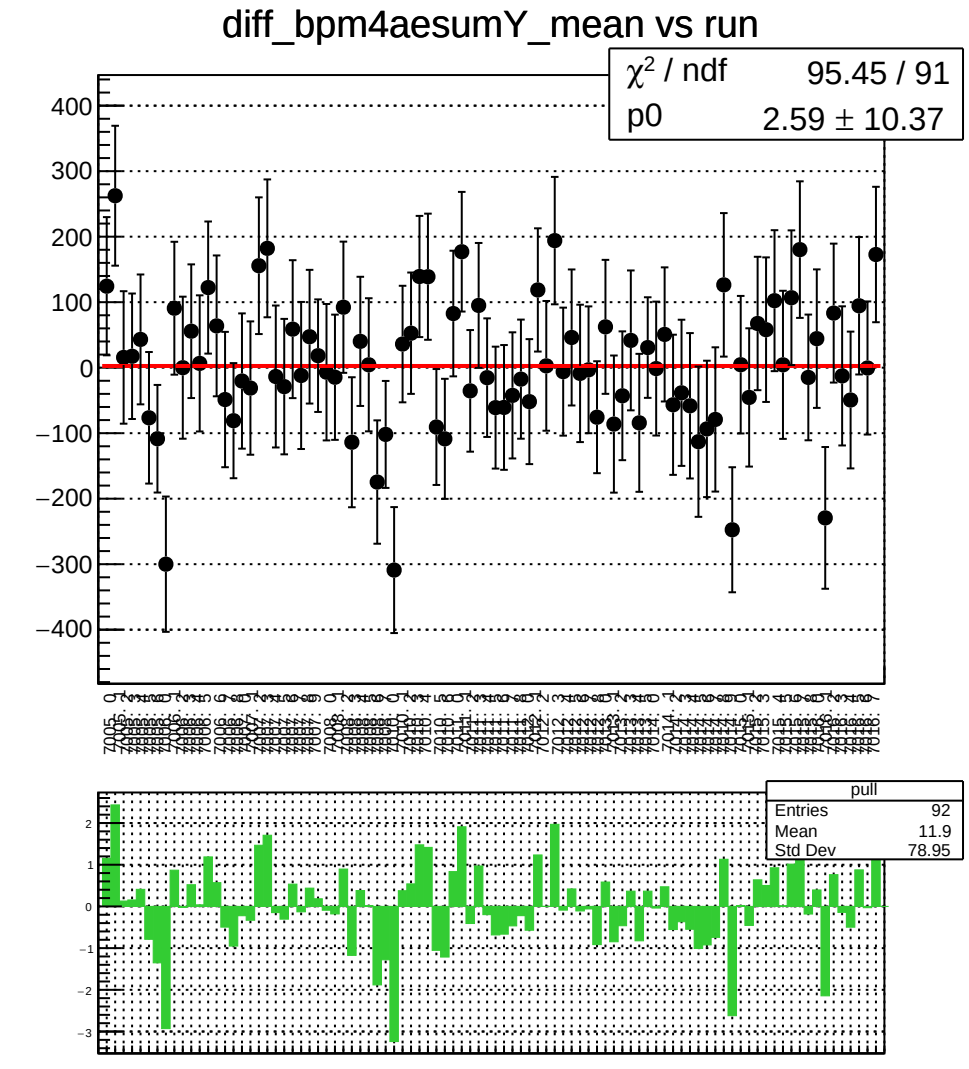

pull1D
Entries 92
Mean 0.01433
Std Dev 0.9105

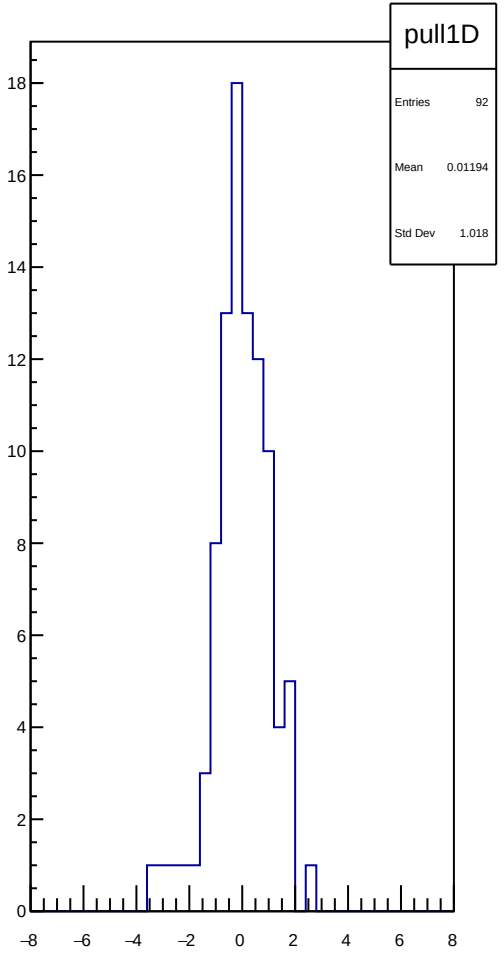

diff_bpm4aesumX_rms vs run
χ² / ndf 5156 / 91
p0 1.043e+04 ± 7.975
12500
12000
11500
11000
10500
10000
9500

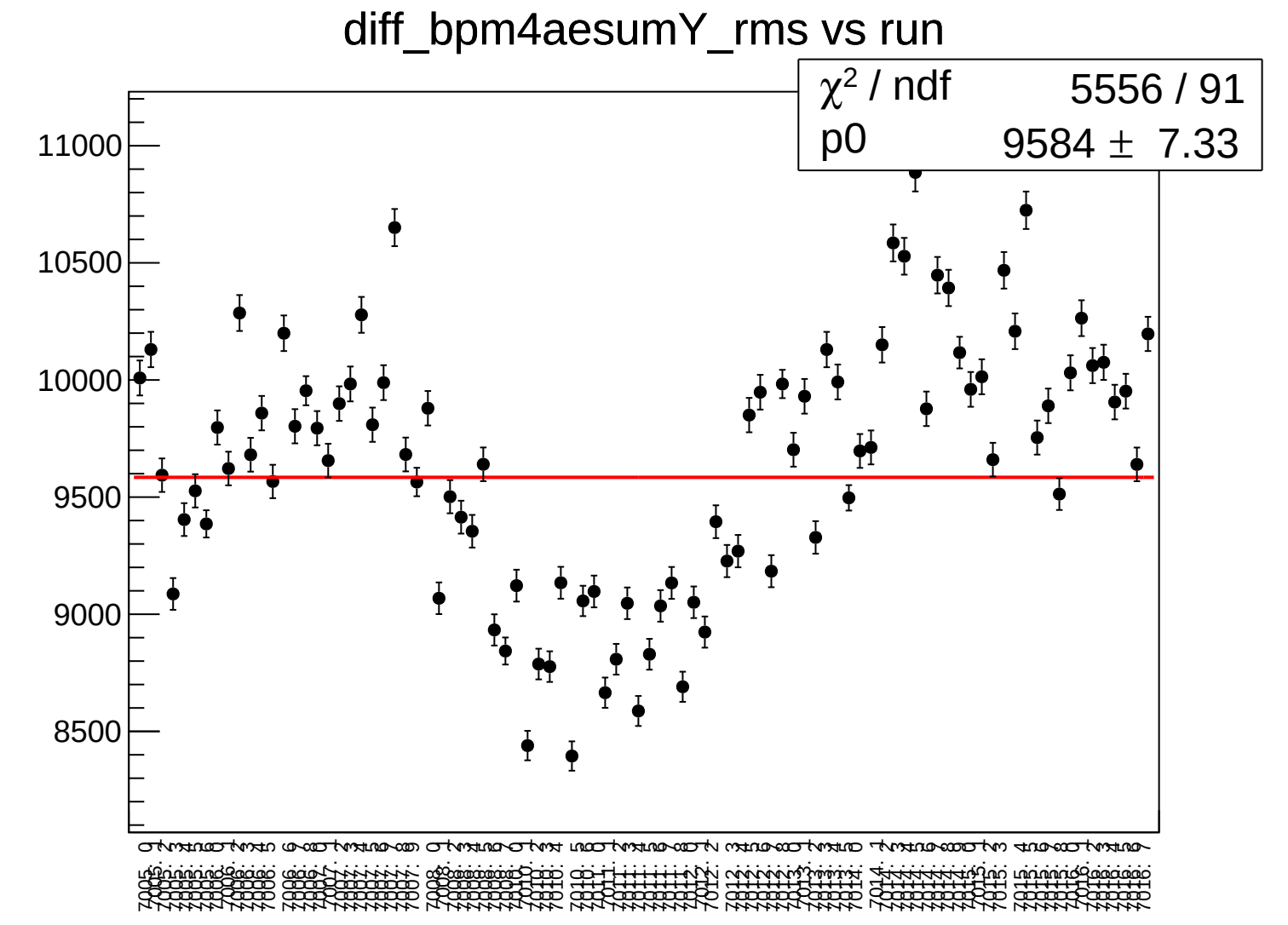

diff_bpm4aediffX_mean vs run
χ² / ndf 75.82 / 91
p0 7.037 ± 7.974
200
100
0
−100
−200
pull
Entries 92
Mean −31.41
Std Dev 16.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

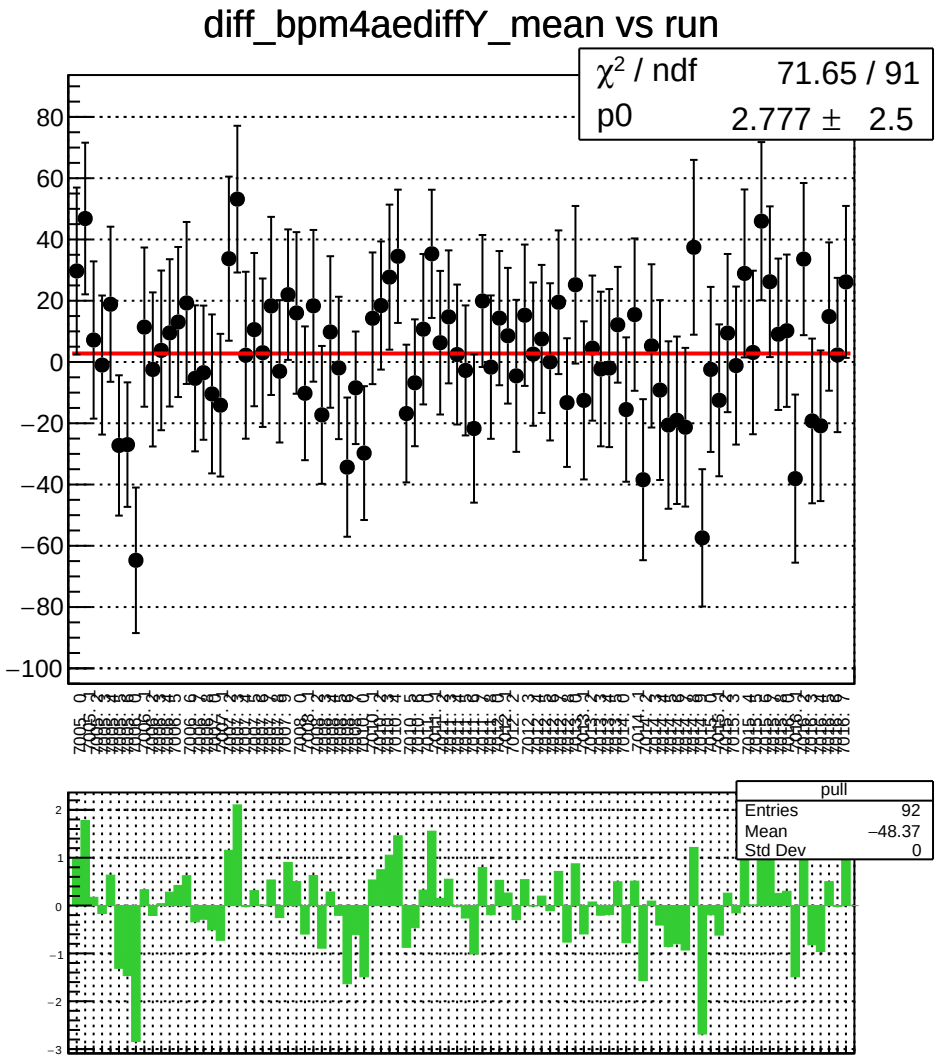

pull1D
Entries 92
Mean −0.0145
Std Dev 0.9077
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

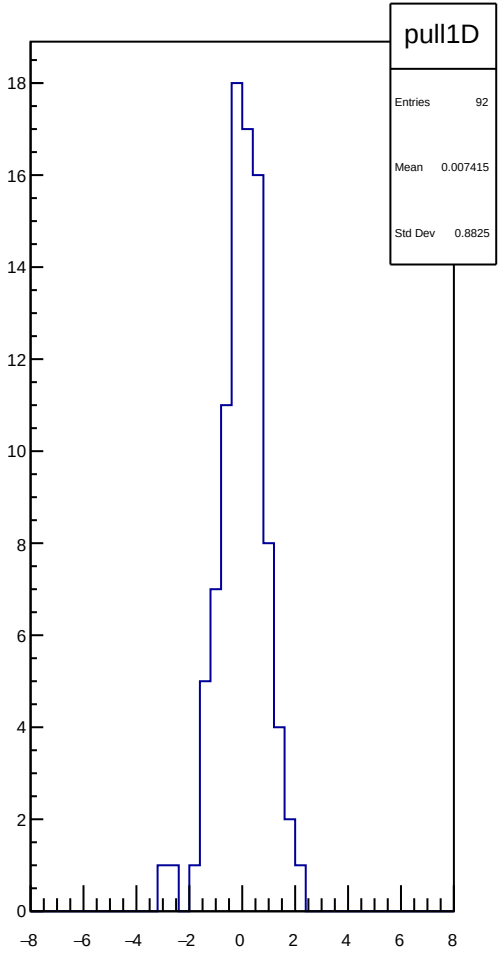

diff_bpm4aediffX_rms vs run
$\chi^2$ / ndf 5209 / 91
p0 7374 ± 5.639
9000
8500
8000
7500
7000
6500

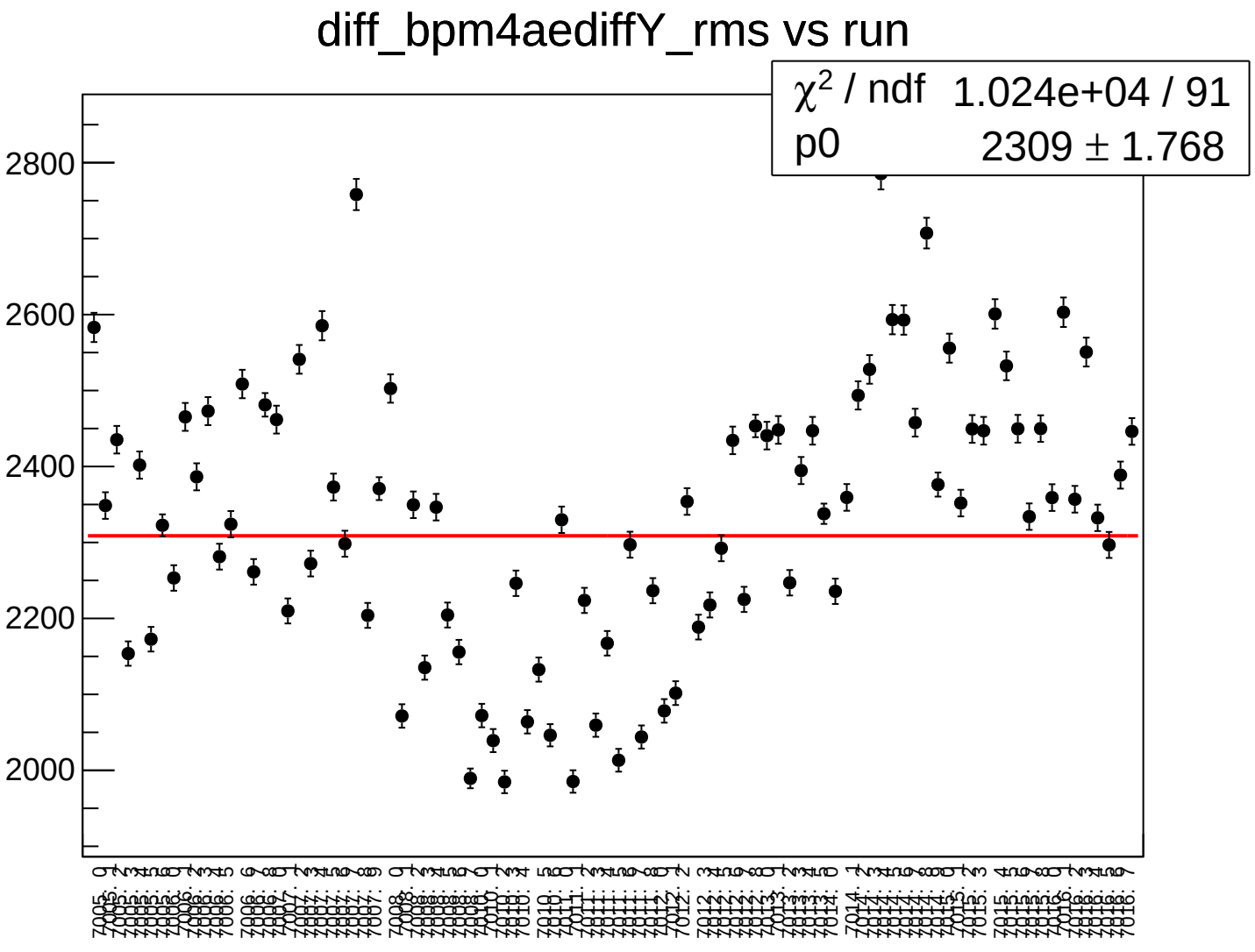

diff_bpm4aesumY_mean vs run
χ² / ndf 95.45 / 91
p0 2.59 ± 10.37
pull
Entries 92
Mean 11.9
Std Dev 78.95

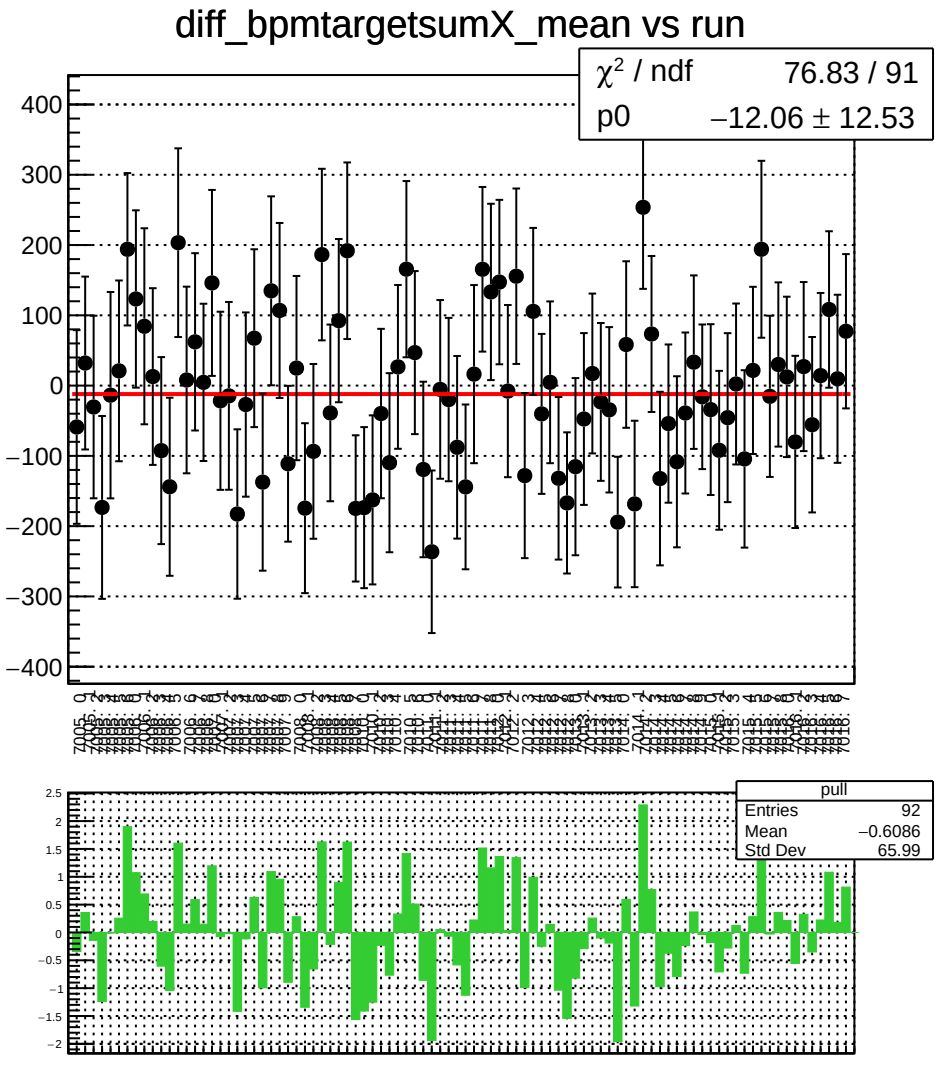

pull1D
Entries 92
Mean 0.01194
Std Dev 1.018

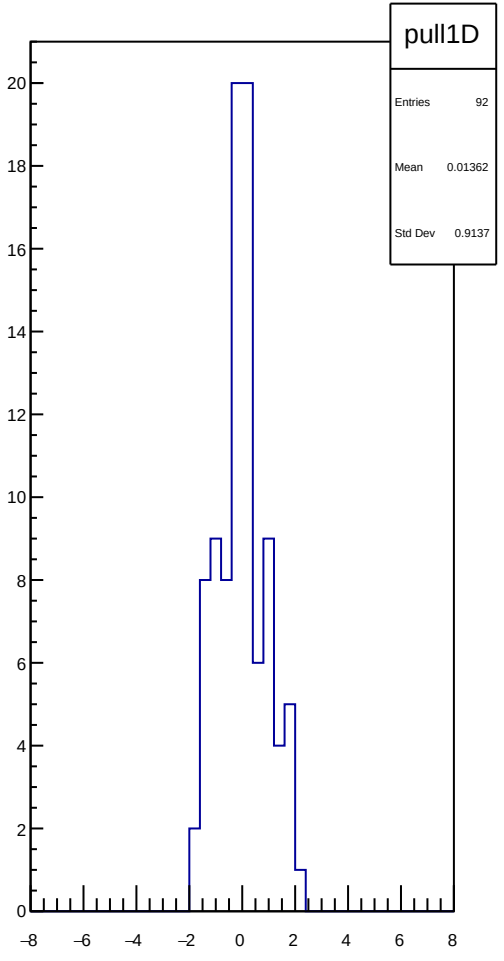

diff_bpm4aesumY_rms vs run
χ² / ndf 5556 / 91
p0 9584 ± 7.33
11000
10500
10000
9500
9000
8500

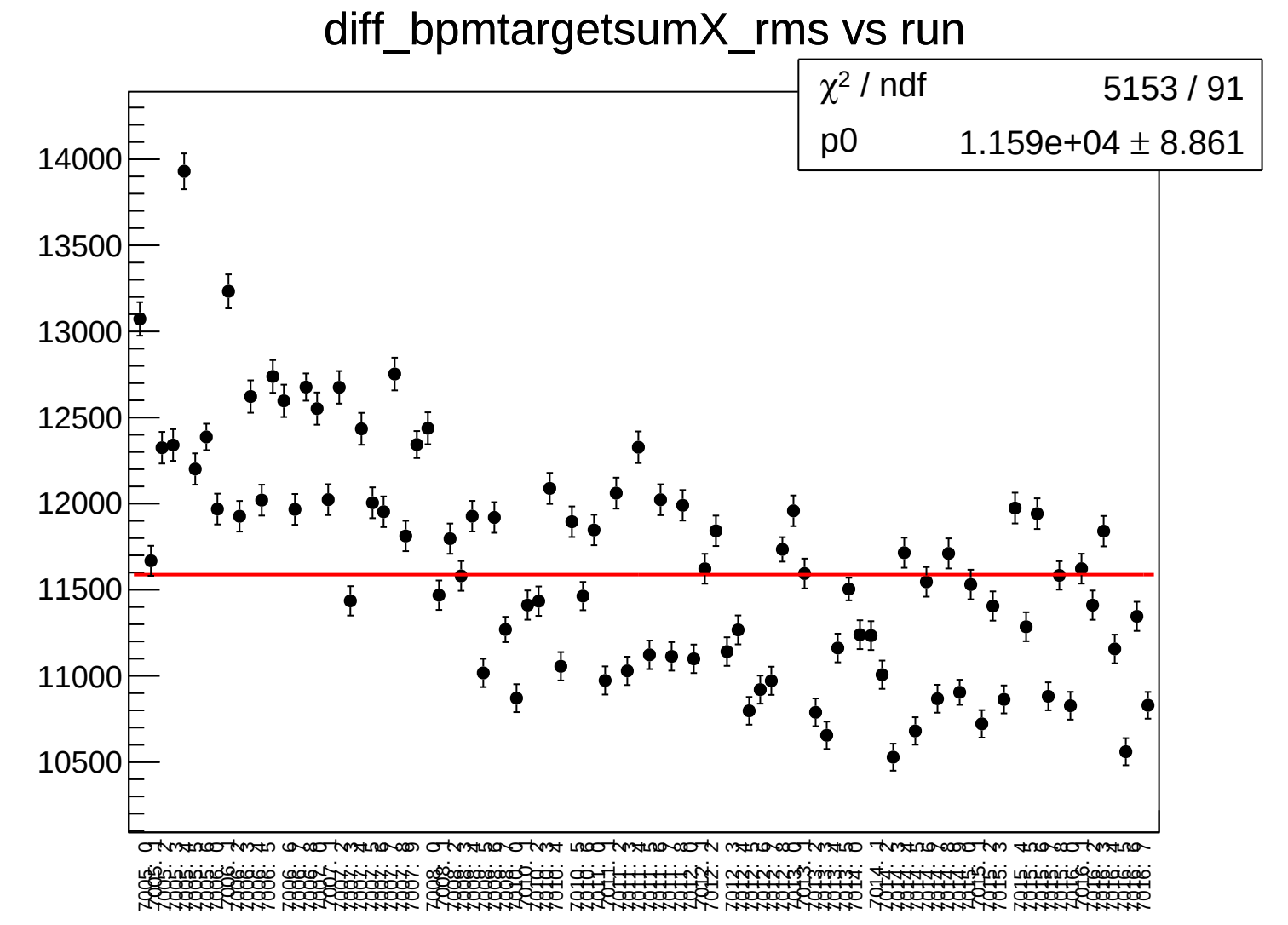

diff_bpm4aediffY_mean vs run
χ² / ndf 71.65 / 91
p0 2.777 ± 2.5
pull
Entries 92
Mean −48.37
Std Dev 0

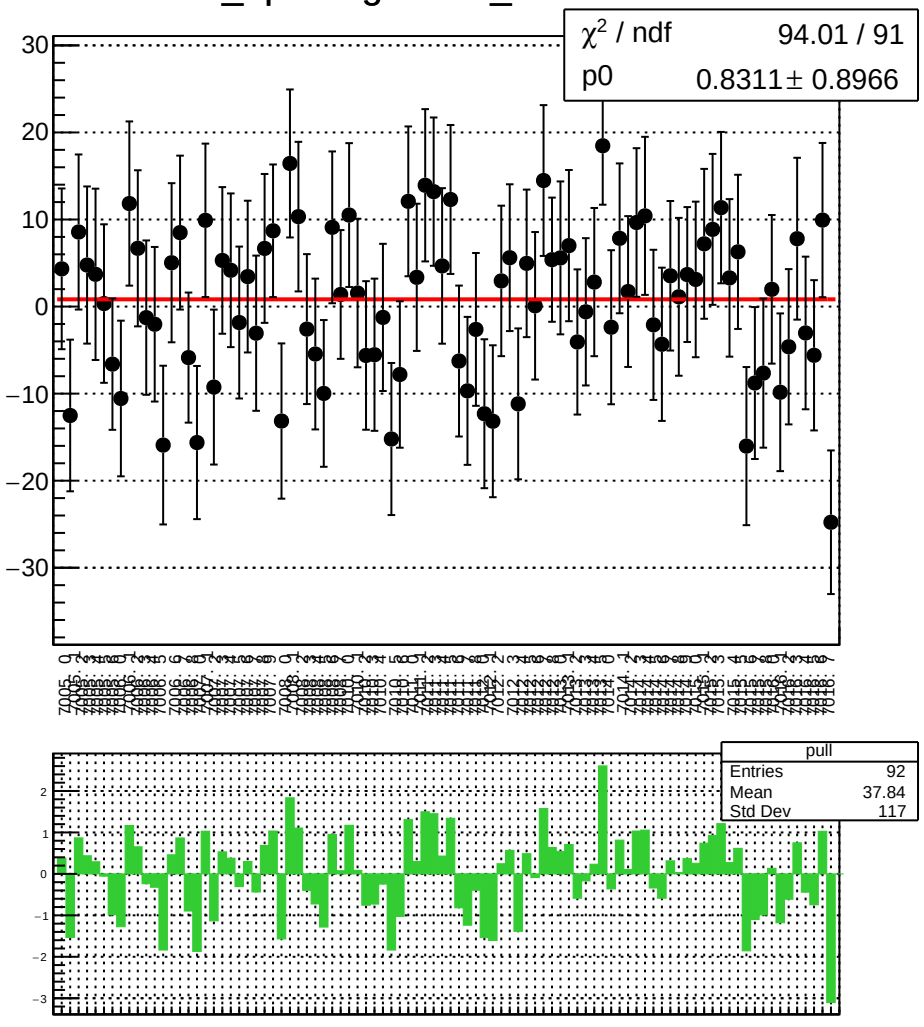

pull1D
Entries 92
Mean 0.007415
Std Dev 0.8825

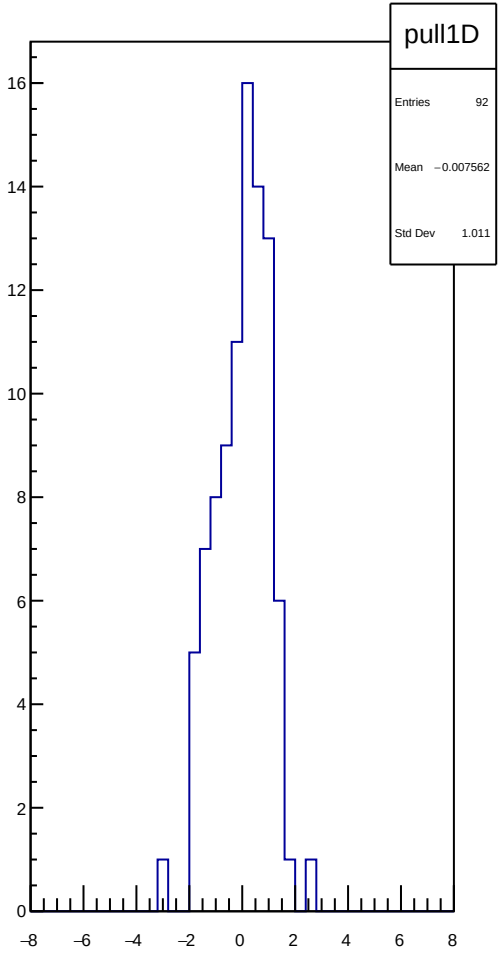

diff_bpm4aediffY_rms vs run
χ² / ndf 1.024e+04 / 91
p0 2309 ± 1.768
2800
2600
2400
2200
2000

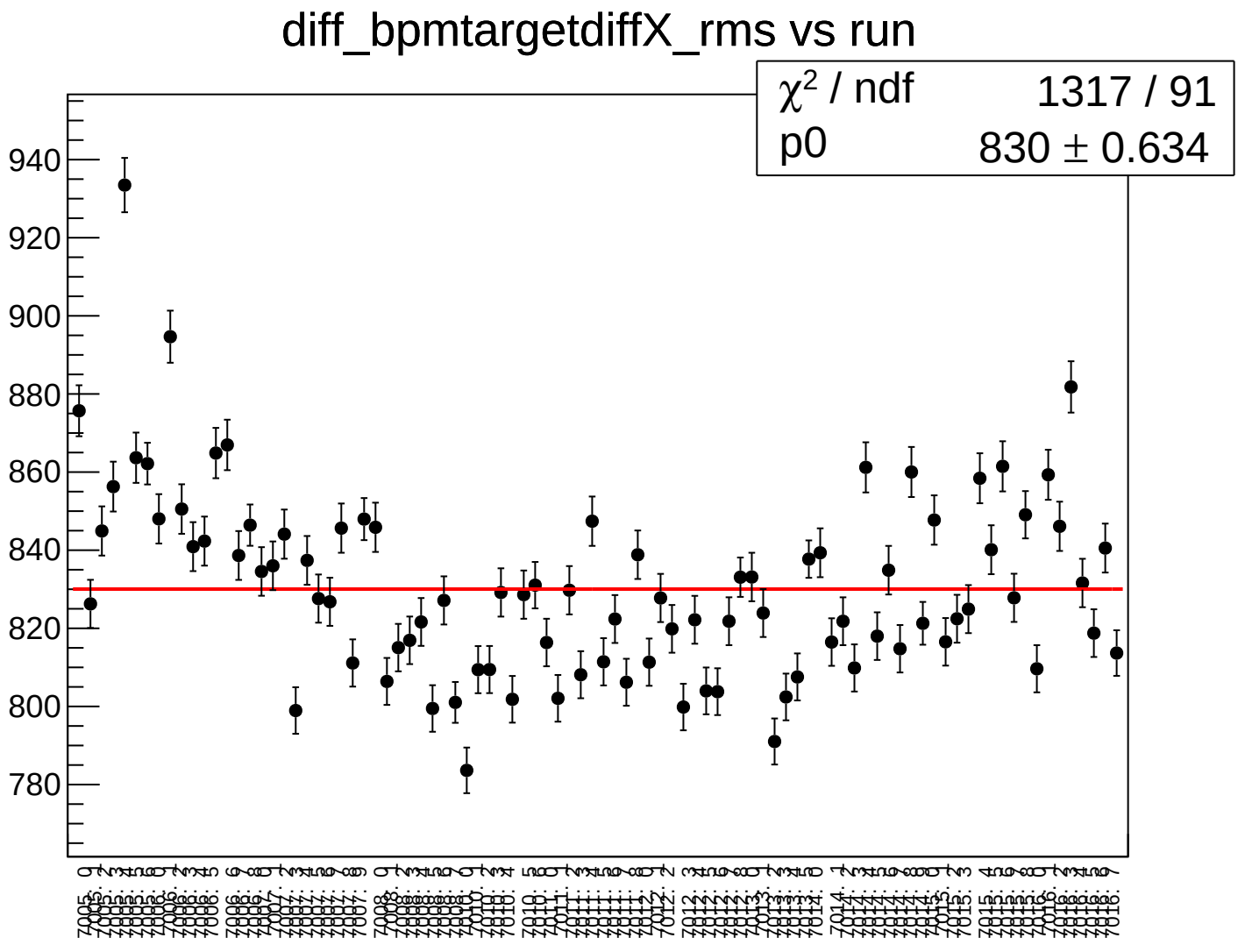

diff_bpmtargetsumX_mean vs run
χ² / ndf 76.83 / 91
p0 −12.06 ± 12.53
pull
Entries 92
Mean −0.6086
Std Dev 65.99

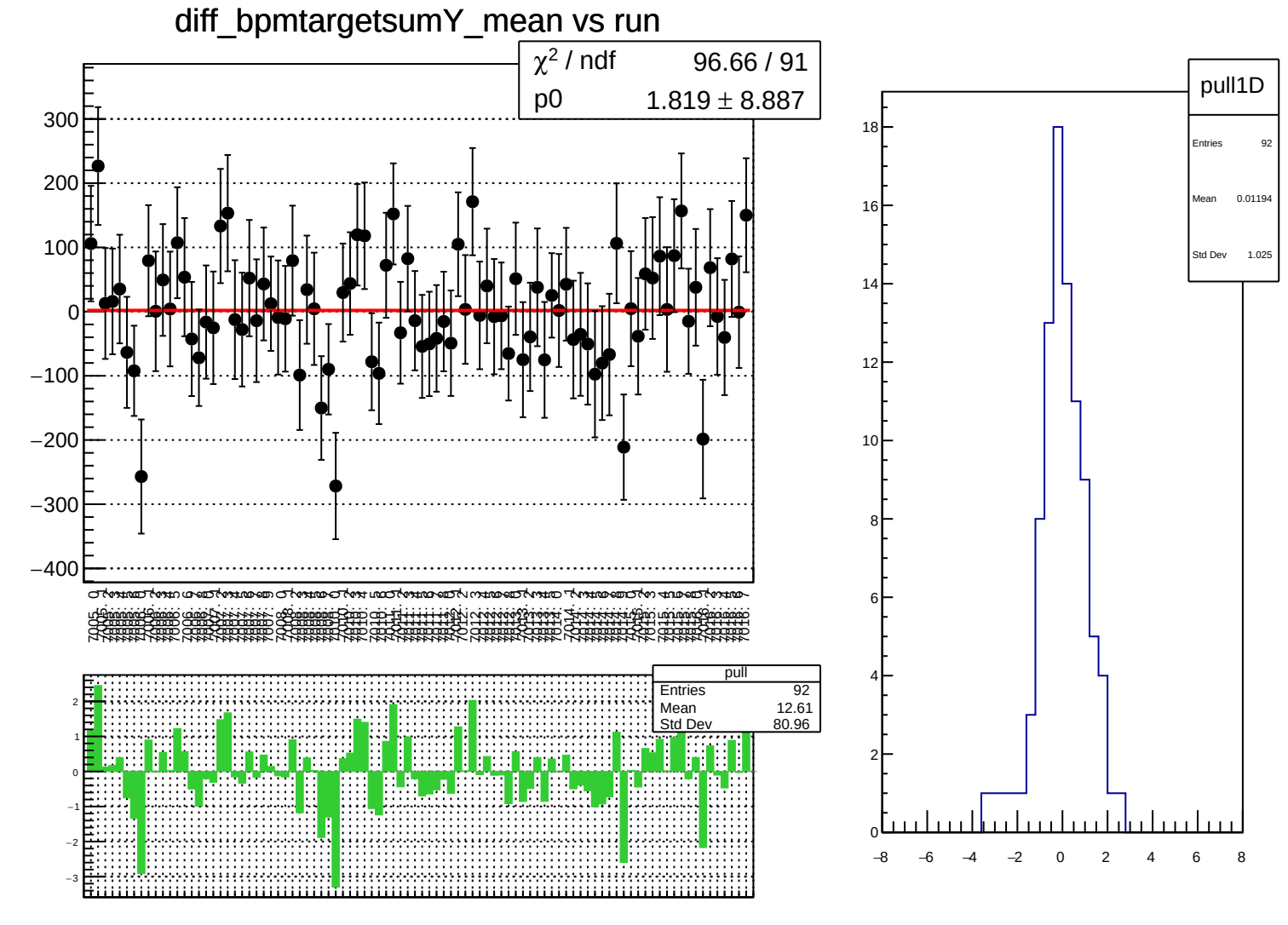

pull1D
Entries 92
Mean 0.01362
Std Dev 0.9137

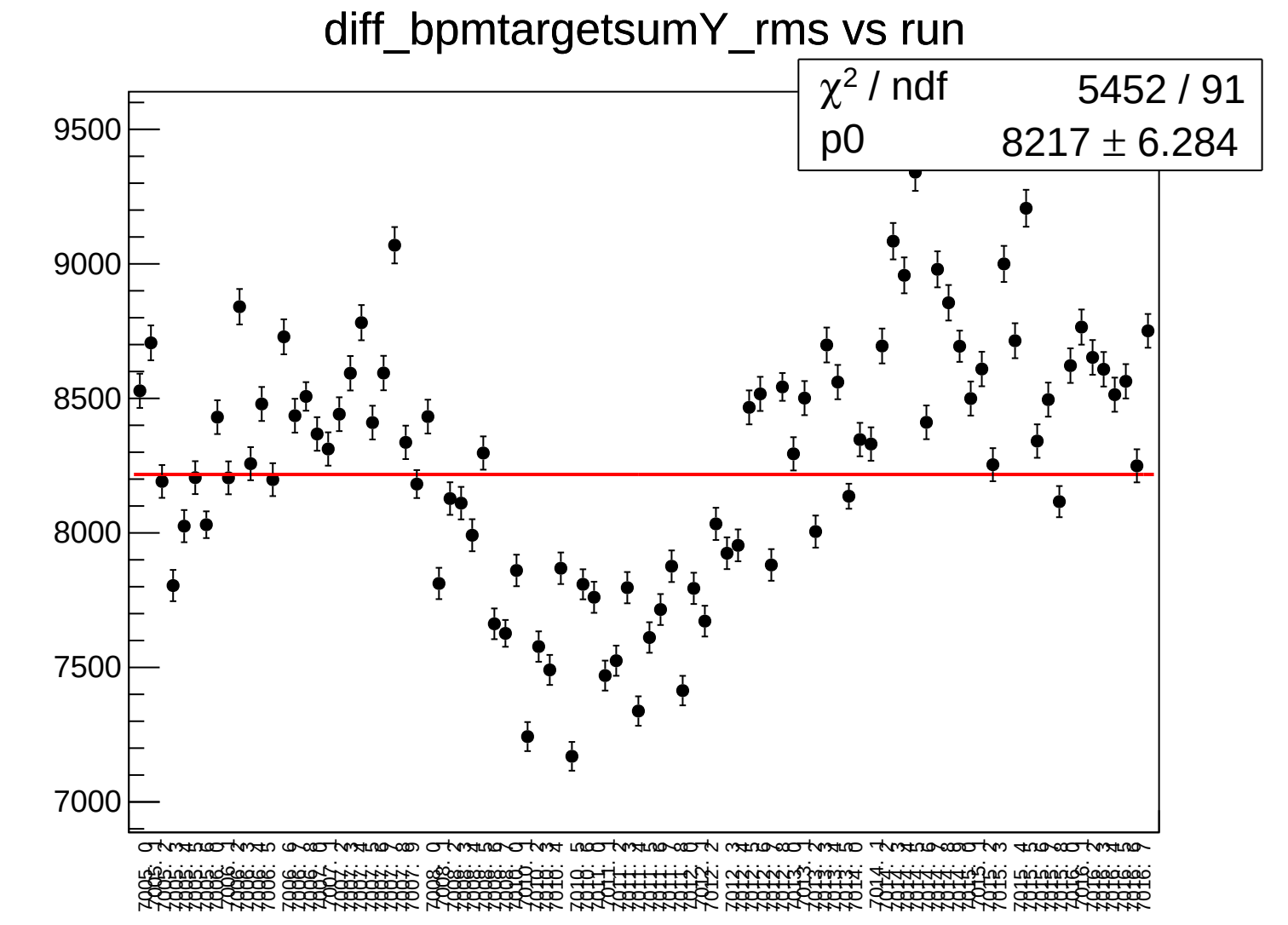

diff_bpmtargetsumX_rms vs run
χ² / ndf 5153 / 91
p0 1.159e+04 ± 8.861
14000
13500
13000
12500
12000
11500
11000
10500

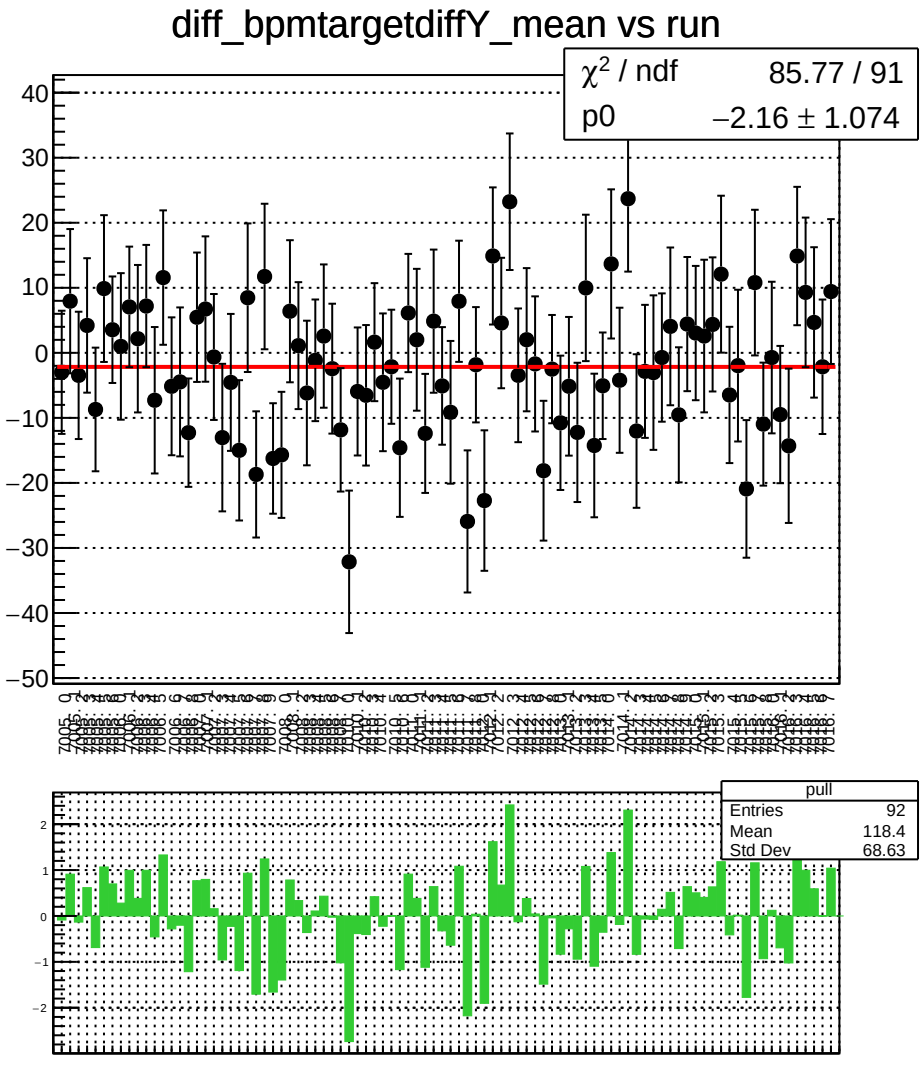

diff_bpmtargetdiffX_mean vs run
χ² / ndf 94.01 / 91
p0 0.8311 ± 0.8966
pull
Entries 92
Mean 37.84
Std Dev 117

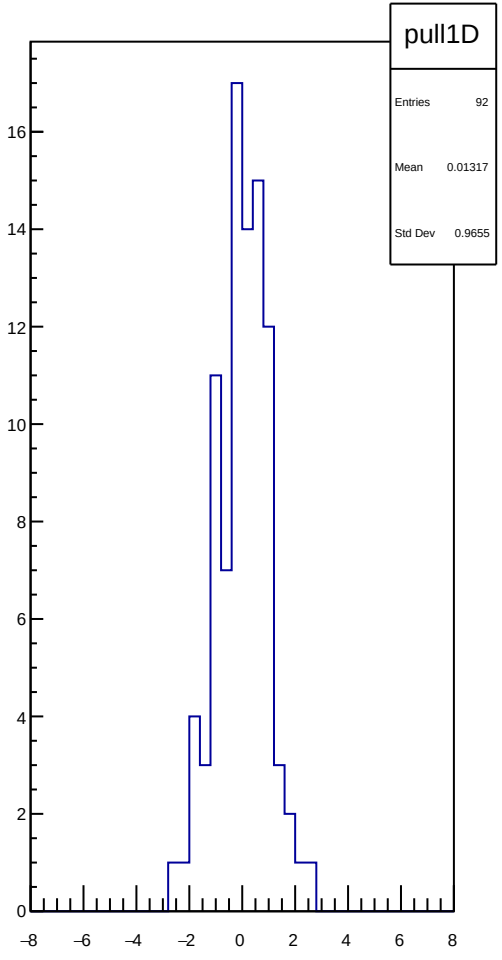

pull1D
Entries 92
Mean −0.007562
Std Dev 1.011

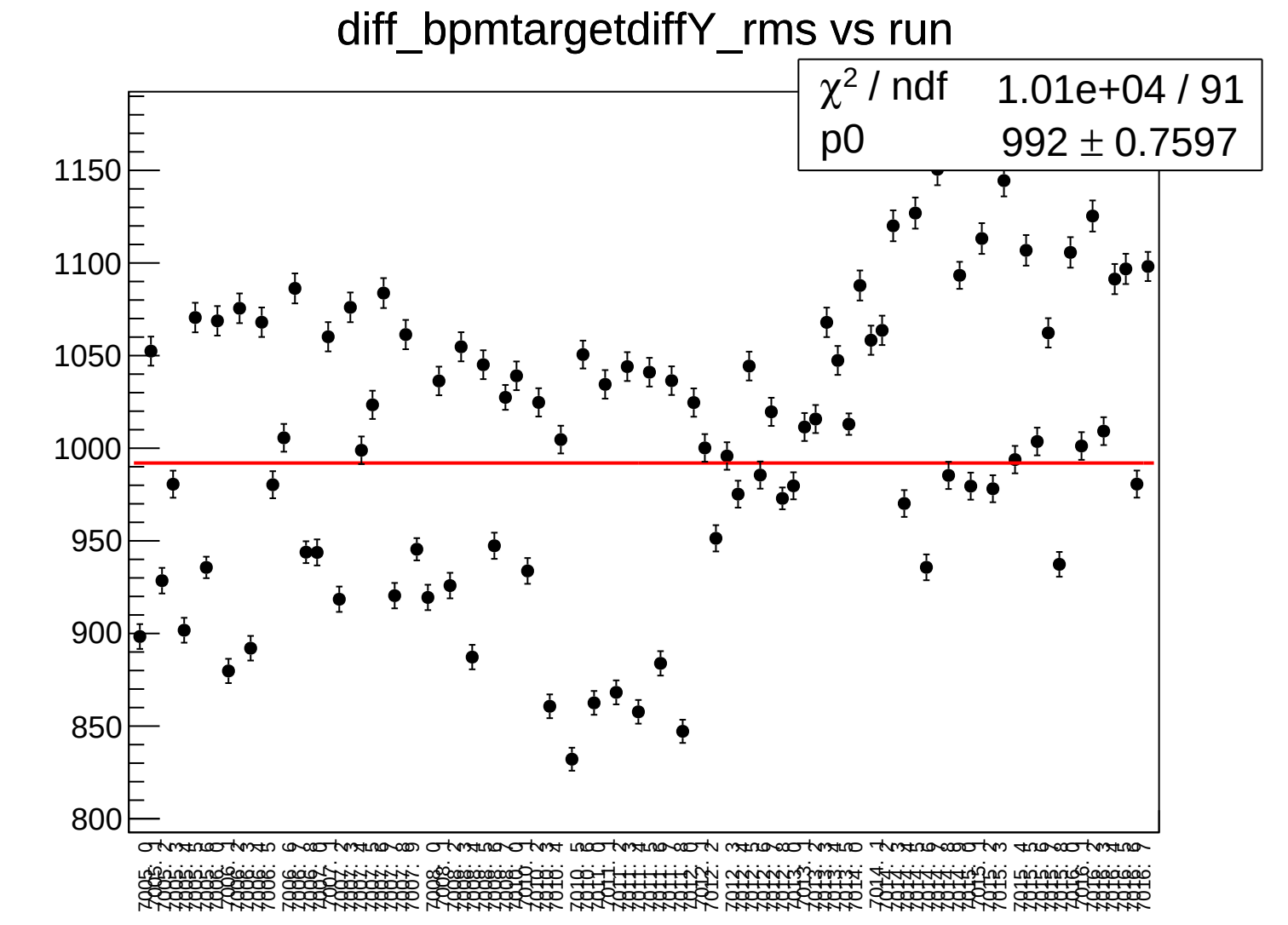

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1317 / 91
p0 830 ± 0.634
940
920
900
880
860
840
820
800
780

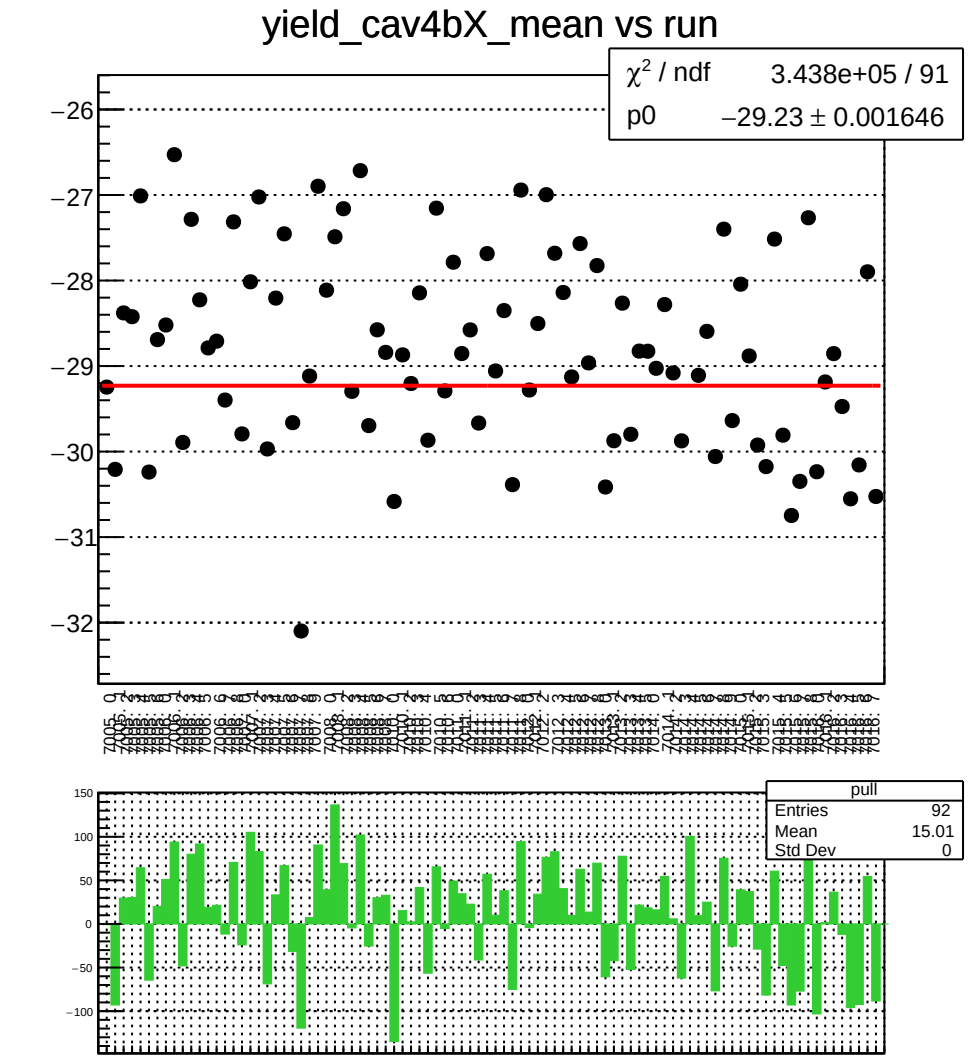

diff_bpmtargetsumY_mean vs run
$\chi^2$ / ndf 96.66 / 91
p0 1.819 ± 8.887
pull
Entries 92
Mean 12.61
Std Dev 80.96
pull1D
Entries 92
Mean 0.01194
Std Dev 1.025

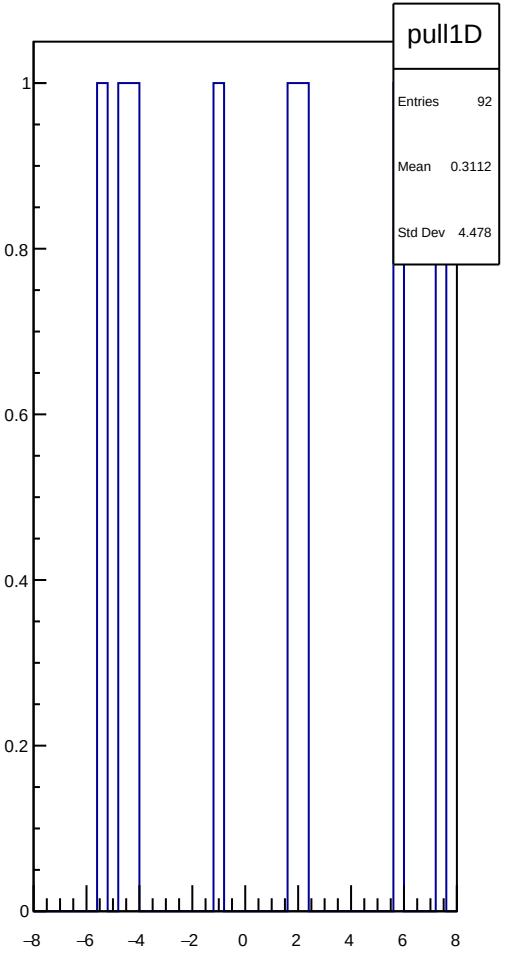

diff_bpmtargetsumY_rms vs run
χ² / ndf 5452 / 91
p0 8217 ± 6.284
9500
9000
8500
8000
7500
7000

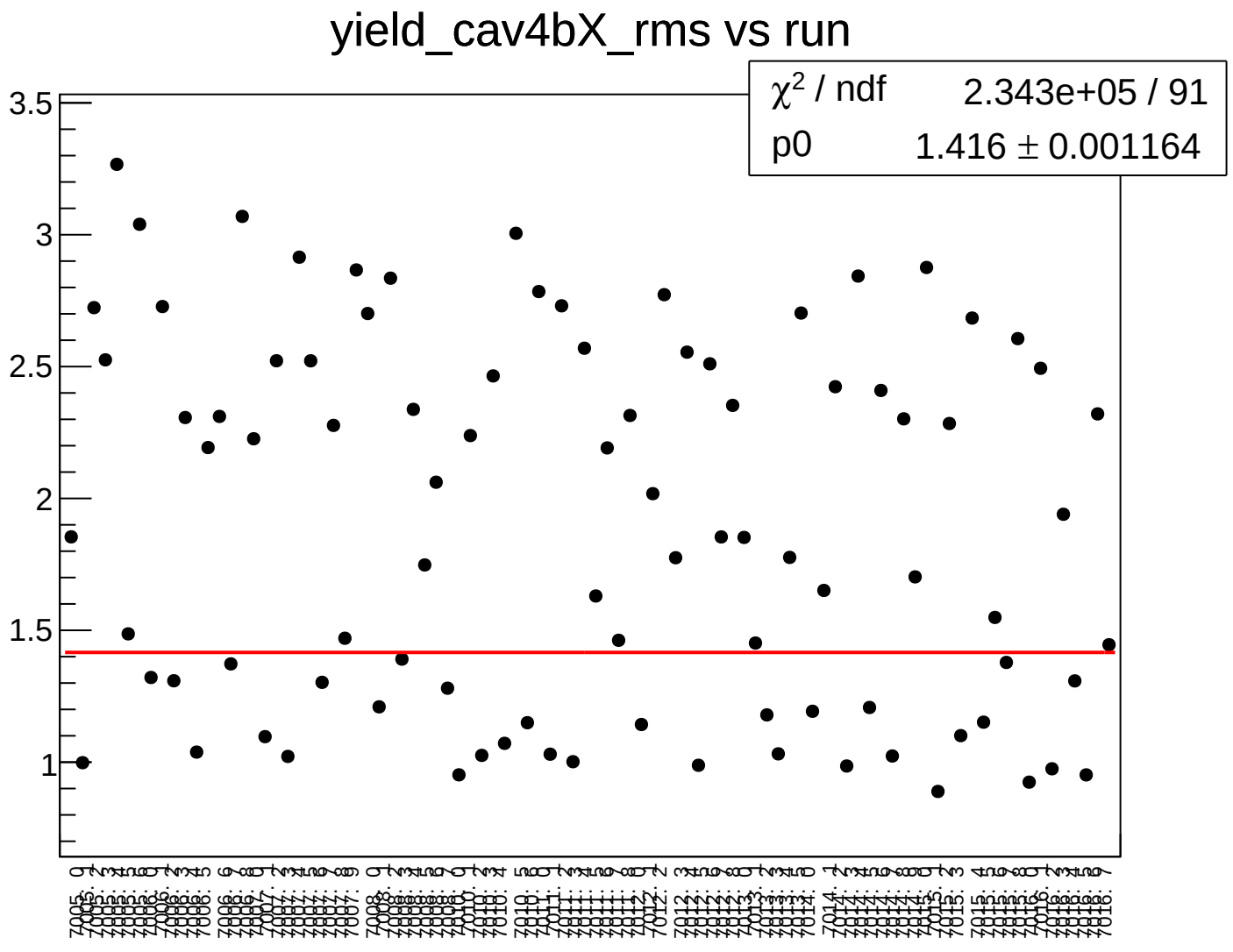

diff_bpmtargetdiffY_mean vs run
χ² / ndf 85.77 / 91
p0 −2.16 ± 1.074
pull
Entries 92
Mean 118.4
Std Dev 68.63

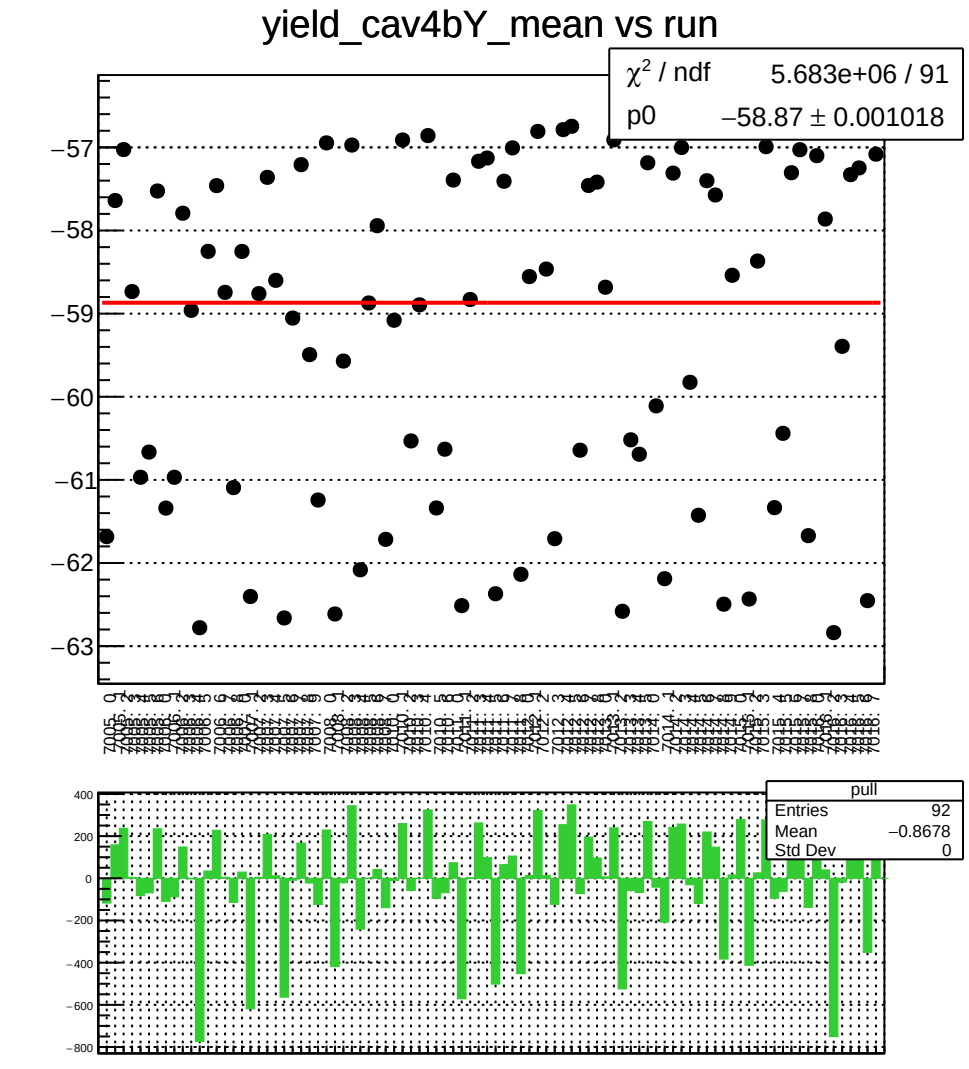

pull1D
Entries 92
Mean 0.01317
Std Dev 0.9655

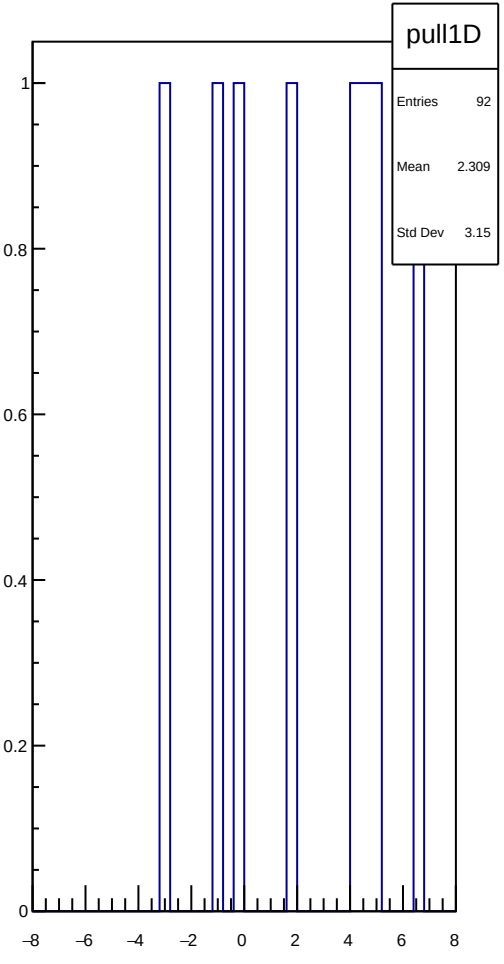

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.01e+04 / 91
p0 992 ± 0.7597
1150
1100
1050
1000
950
900
850
800

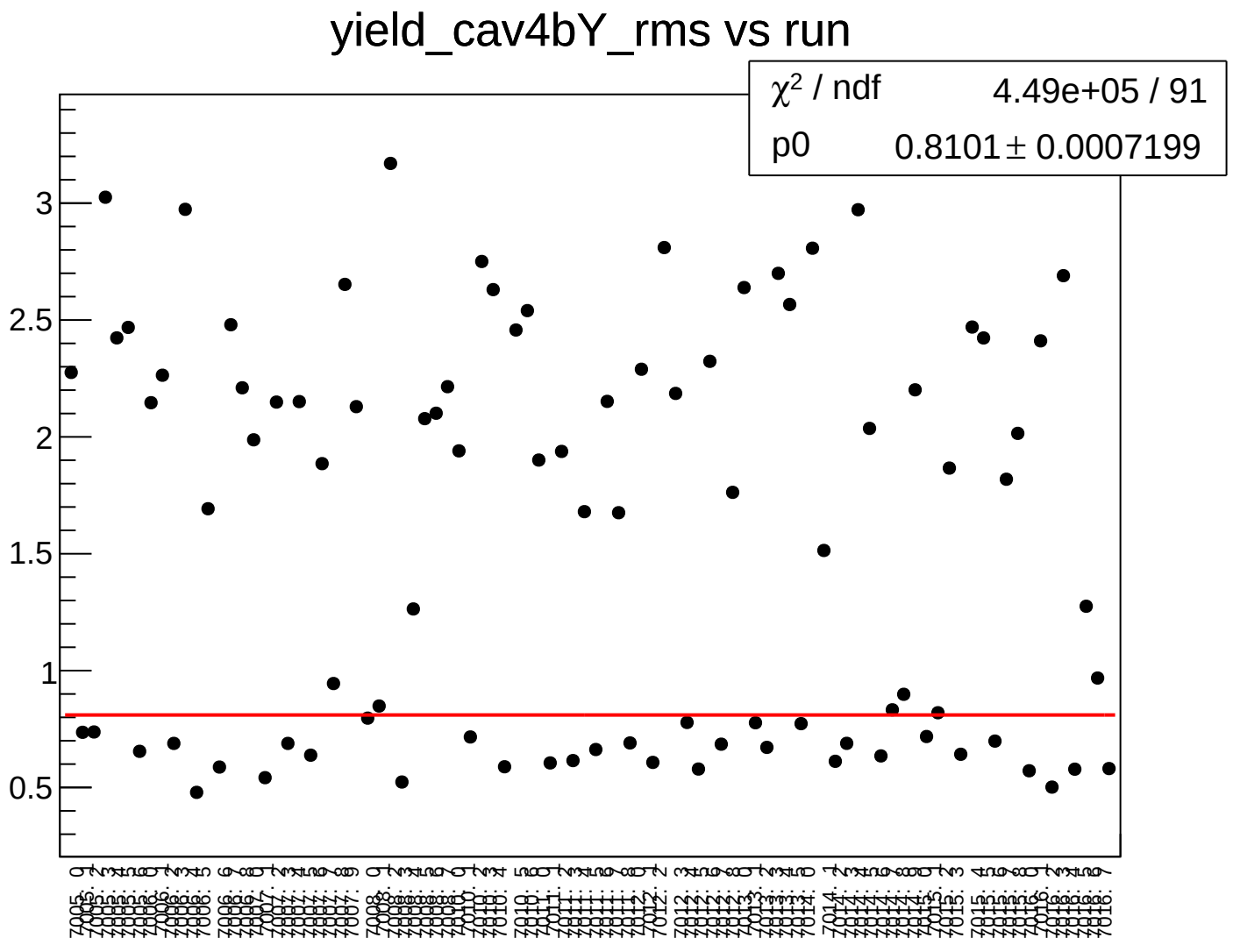

yield_cav4bX_mean vs run
χ² / ndf 3.438e+05 / 91
p0 −29.23 ± 0.001646
−26
−27
−28
−29
−30
−31
−32
pull
Entries 92
Mean 15.01
Std Dev 0
150
100
50
0
−50
−100

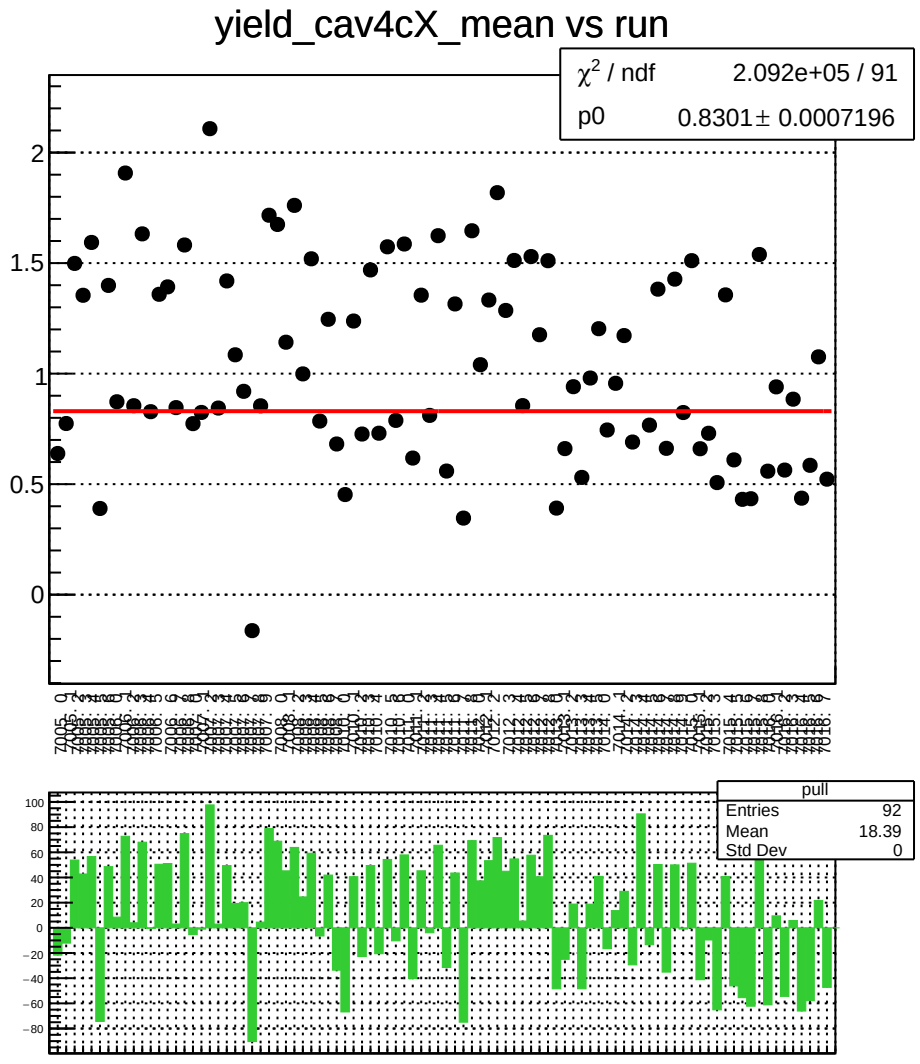

pull1D
Entries 92
Mean 0.3112
Std Dev 4.478
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

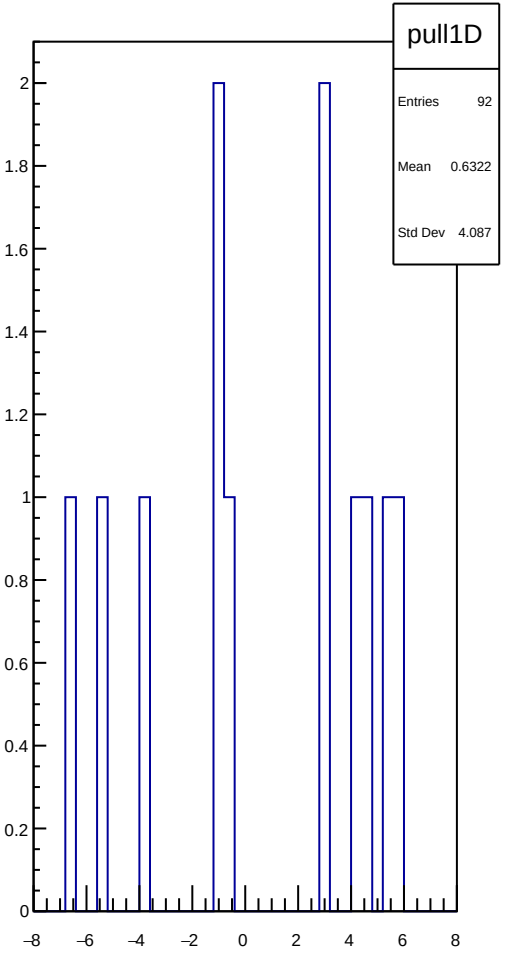

yield_cav4bX_rms vs run
χ² / ndf 2.343e+05 / 91
p0 1.416 ± 0.001164
3.5
3
2.5
2
1.5
1

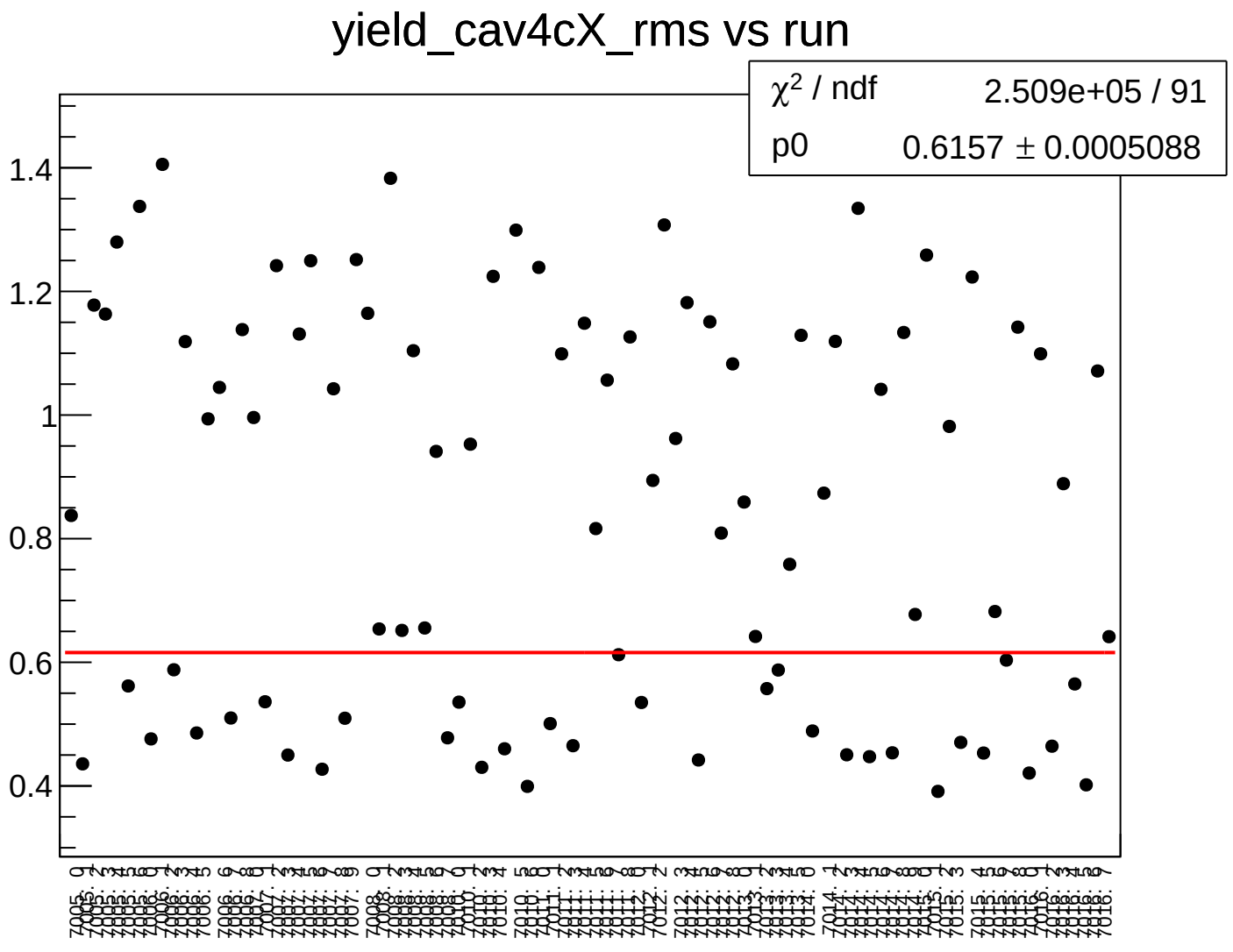

yield_cav4bY_mean vs run
χ² / ndf 5.683e+06 / 91
p0 −58.87 ± 0.001018
−57
−58
−59
−60
−61
−62
−63
pull
Entries 92
Mean −0.8678
Std Dev 0
400
200
0
−200
−400
−600
−800

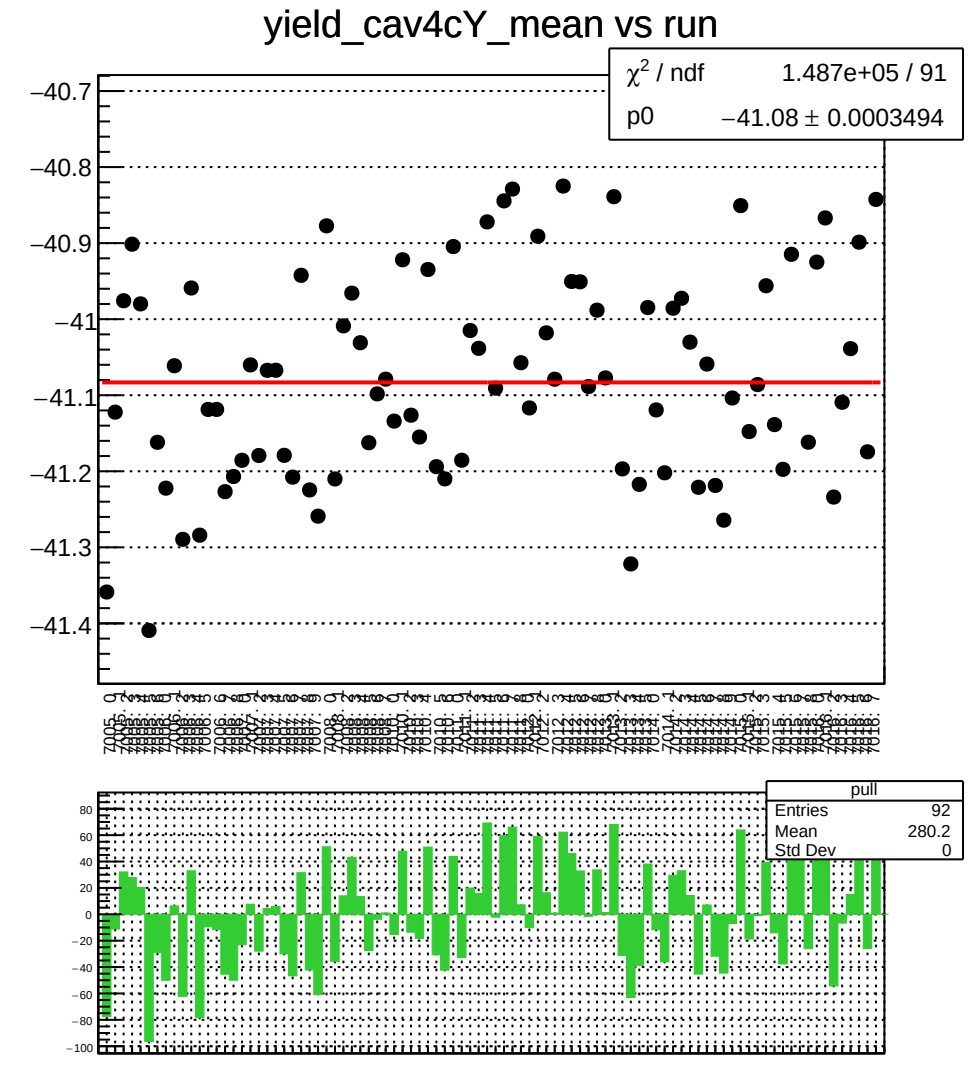

pull1D
Entries 92
Mean 2.309
Std Dev 3.15
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

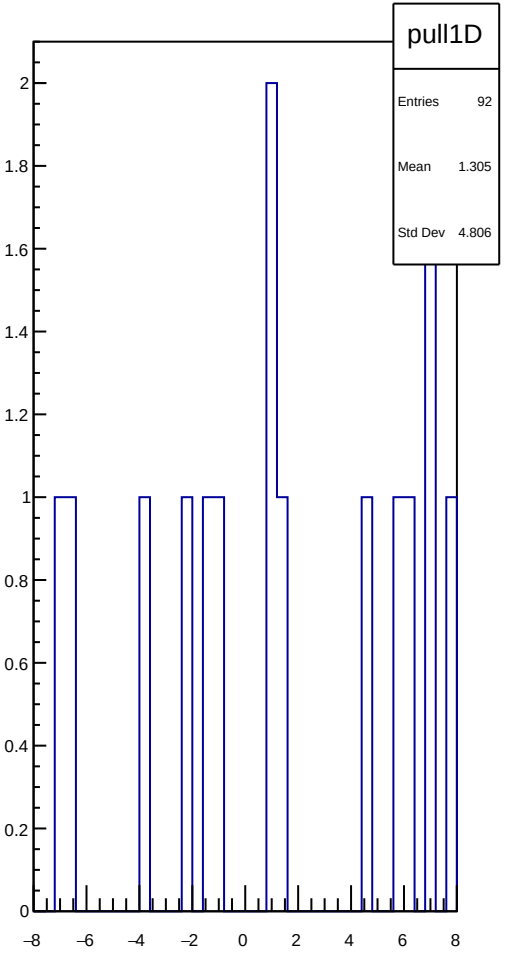

yield_cav4bY_rms vs run
χ² / ndf 4.49e+05 / 91
p0 0.8101 ± 0.0007199
3
2.5
2
1.5
1
0.5

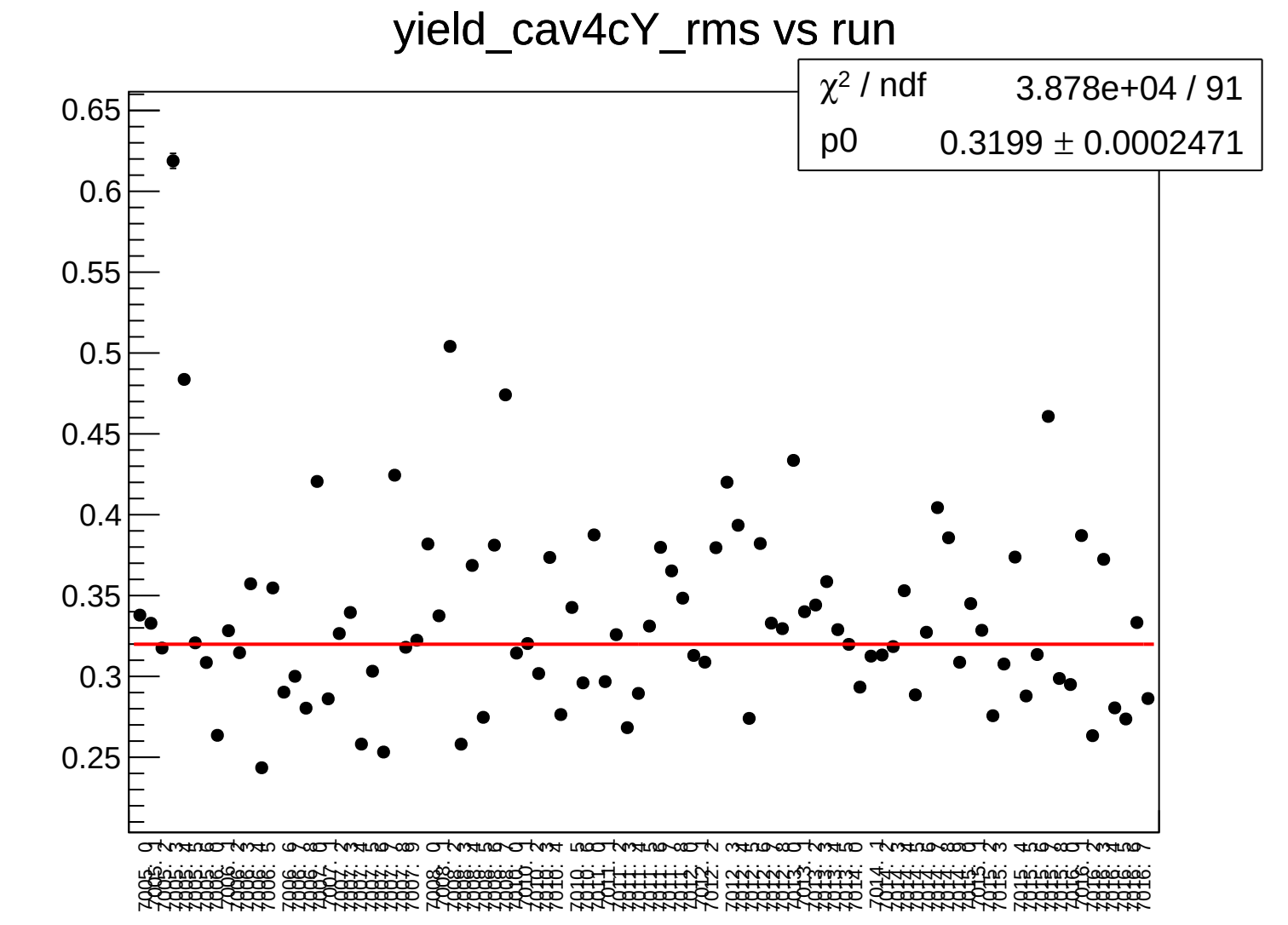

yield_cav4cX_mean vs run
χ² / ndf 2.092e+05 / 91
p0 0.8301 ± 0.0007196
pull
Entries 92
Mean 18.39
Std Dev 0

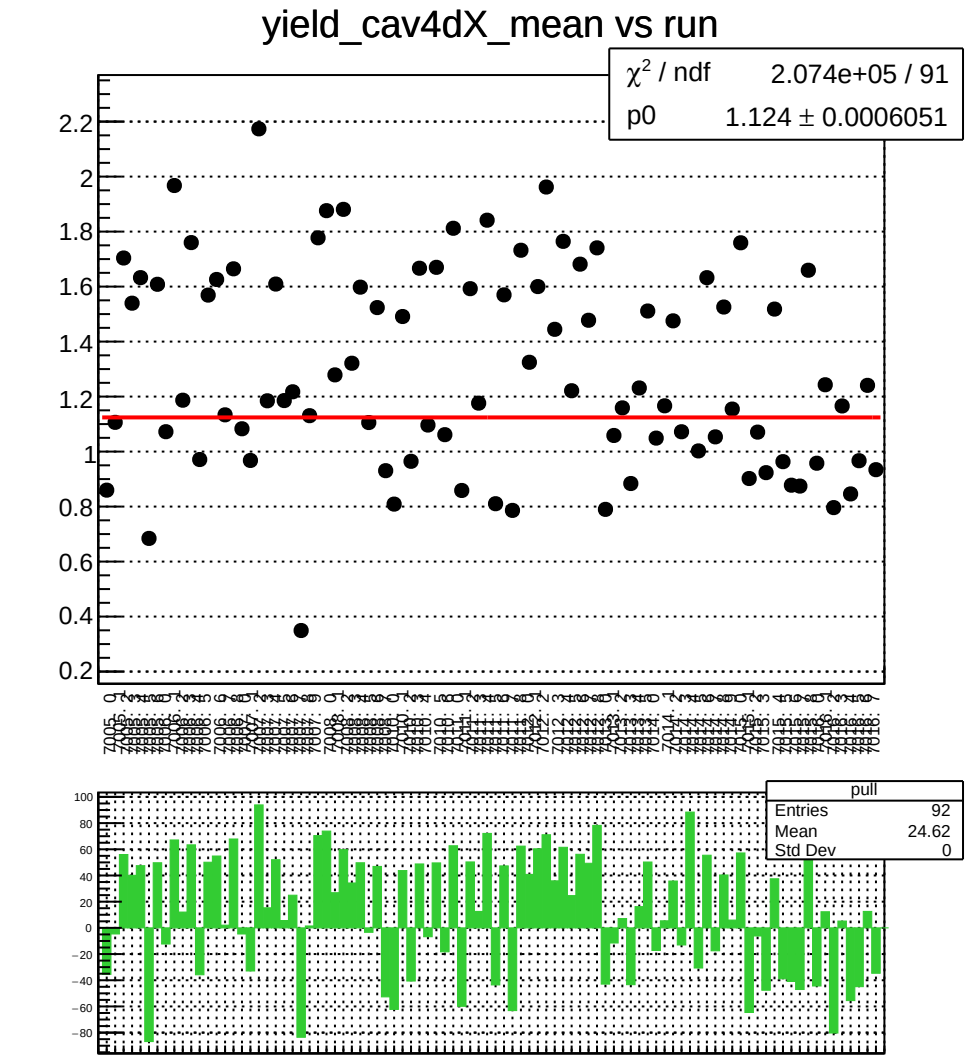

pull1D
Entries 92
Mean 0.6322
Std Dev 4.087

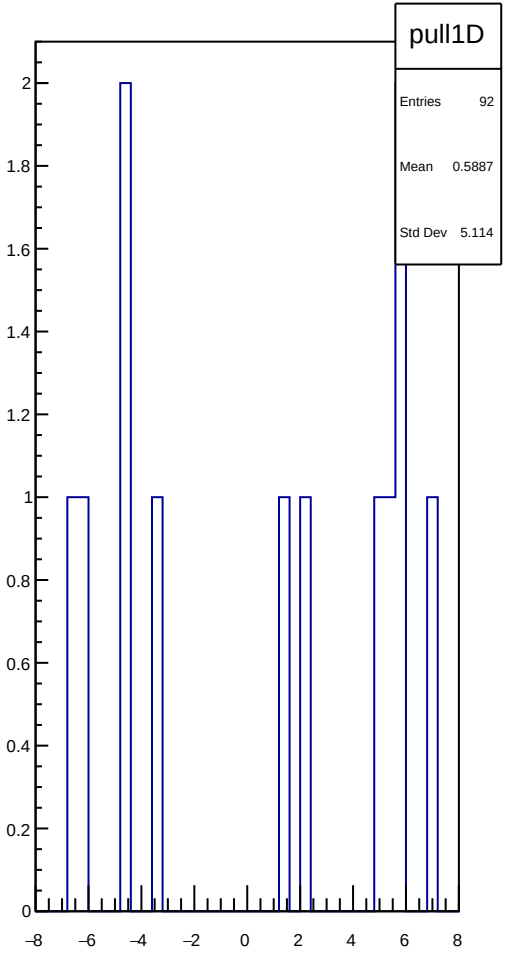

yield_cav4cX_rms vs run
χ² / ndf 2.509e+05 / 91
p0 0.6157 ± 0.0005088
1.4
1.2
1
0.8
0.6
0.4

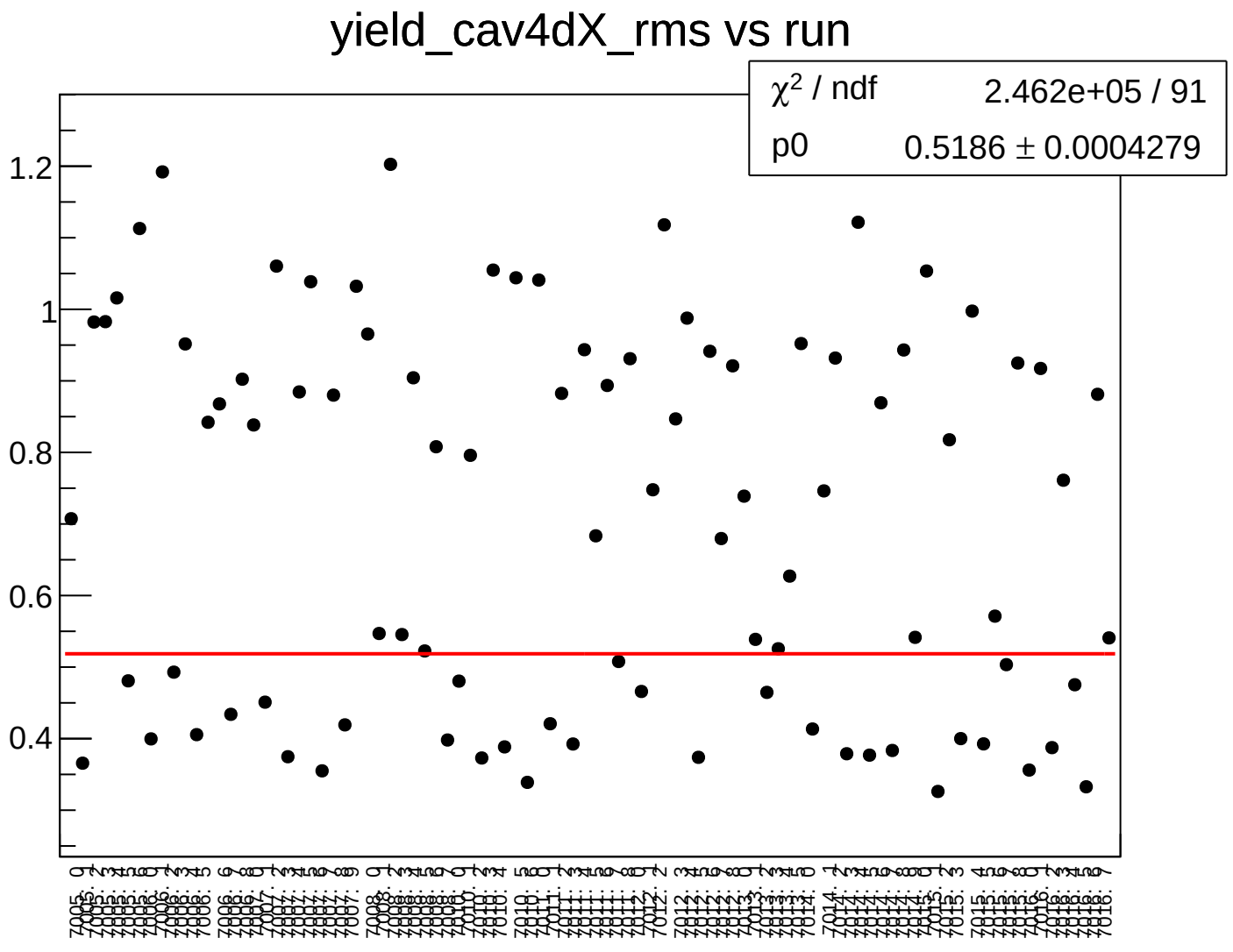

yield_cav4cY_mean vs run
χ² / ndf 1.487e+05 / 91
p0 −41.08 ± 0.0003494
−40.7
−40.8
−40.9
−41
−41.1
−41.2
−41.3
−41.4
pull
Entries 92
Mean 280.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

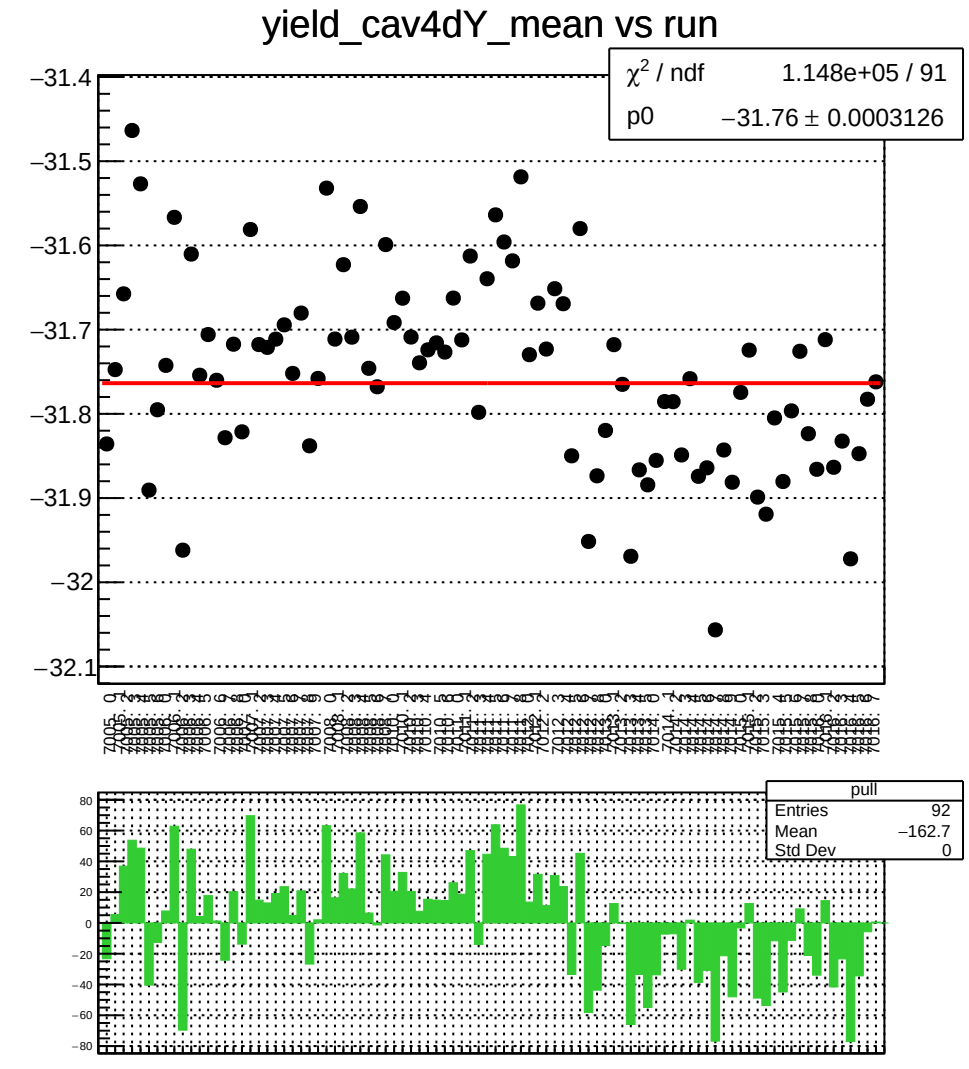

pull1D
Entries 92
Mean 1.305
Std Dev 4.806
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

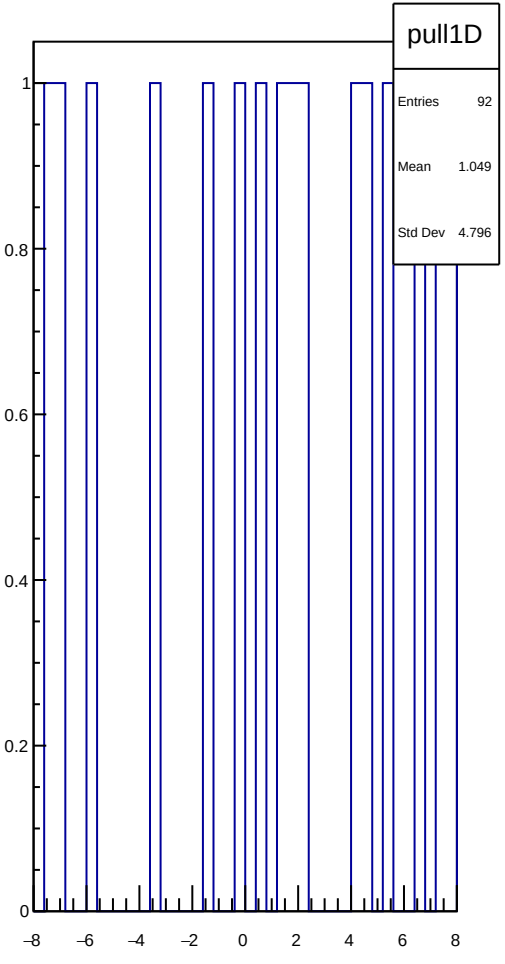

yield_cav4cY_rms vs run
χ² / ndf 3.878e+04 / 91
p0 0.3199 ± 0.0002471
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

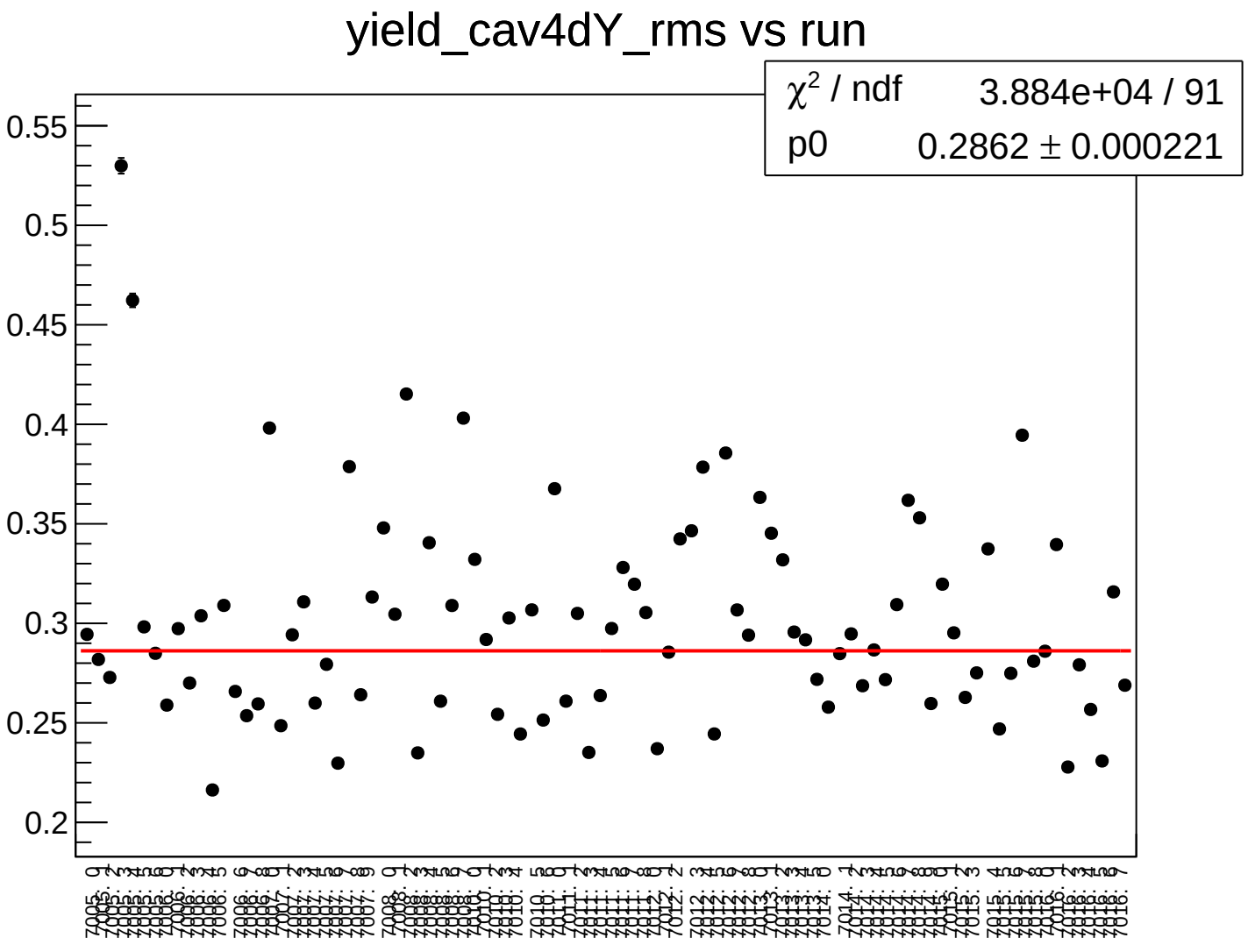

yield_cav4dX_mean vs run
χ² / ndf 2.074e+05 / 91
p0 1.124 ± 0.0006051
pull
Entries 92
Mean 24.62
Std Dev 0

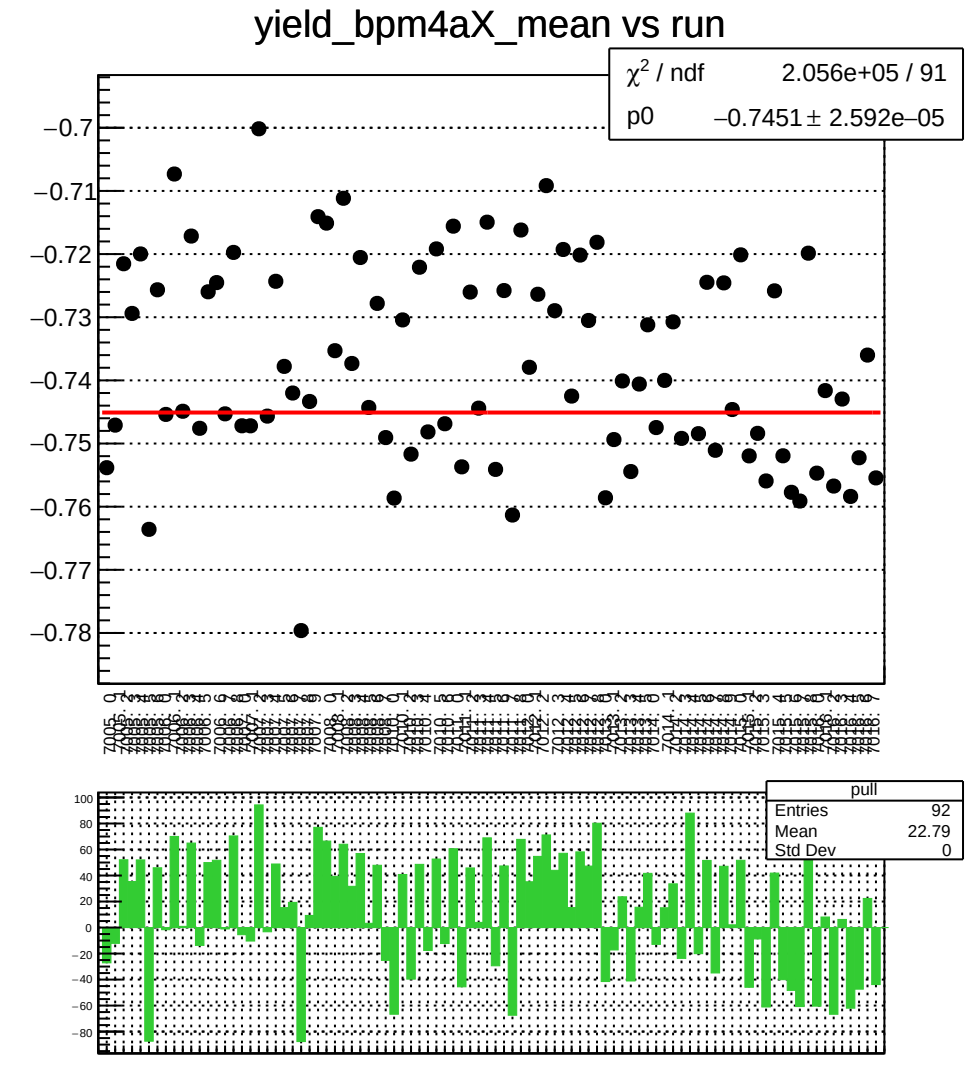

pull1D
Entries 92
Mean 0.5887
Std Dev 5.114

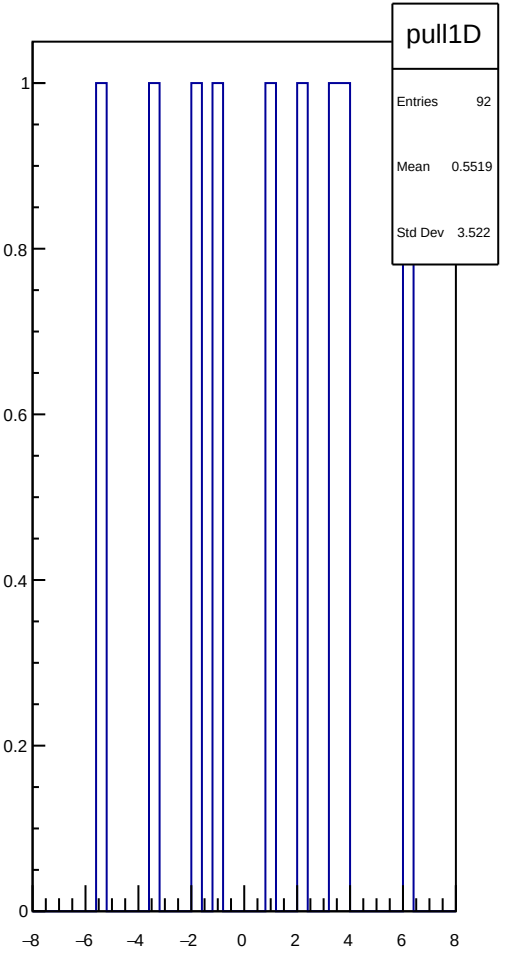

yield_cav4dX_rms vs run
χ² / ndf 2.462e+05 / 91
p0 0.5186 ± 0.0004279
1.2
1
0.8
0.6
0.4

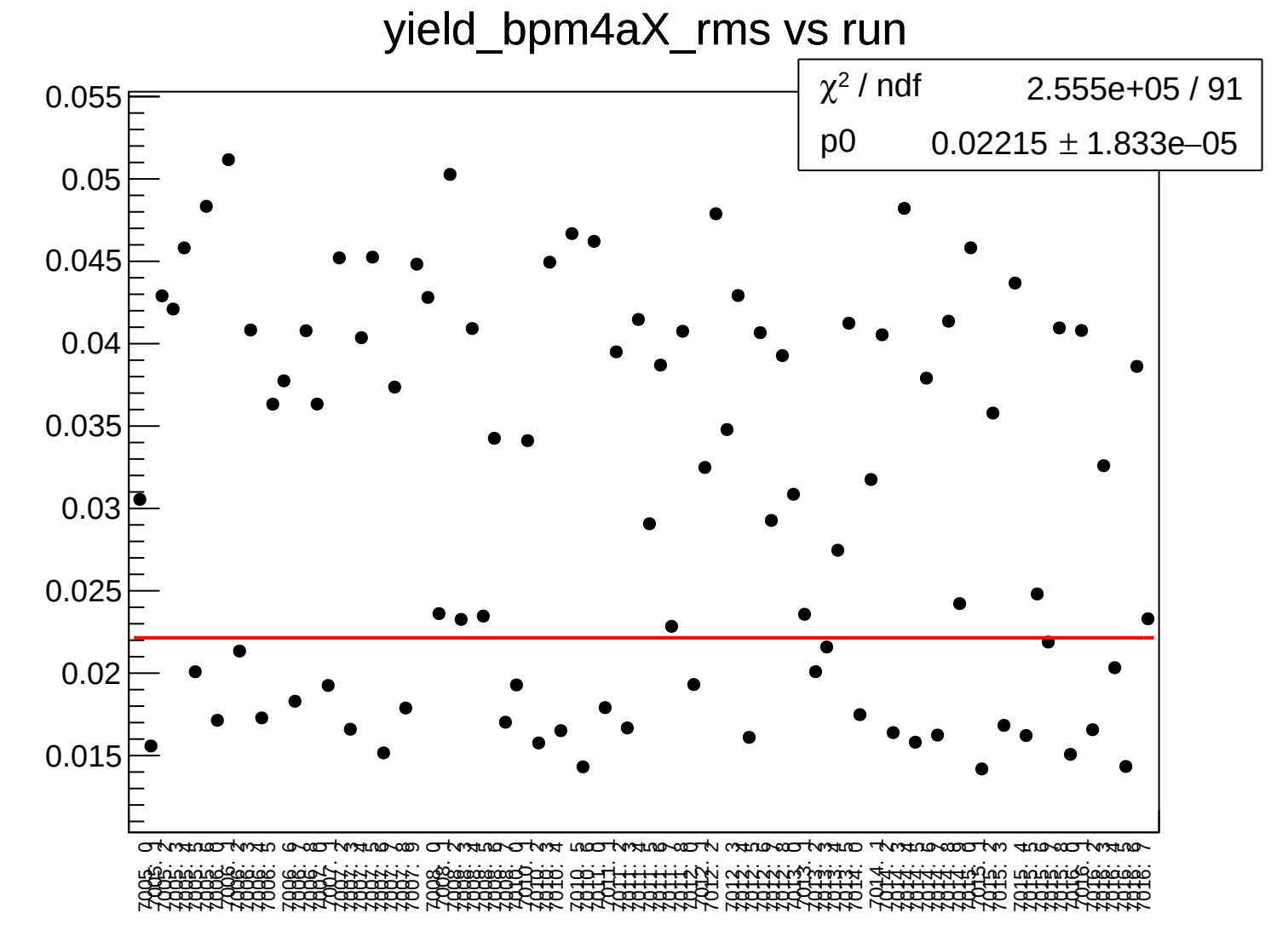

yield_cav4dY_mean vs run
χ² / ndf 1.148e+05 / 91
p0 −31.76 ± 0.0003126
−31.4
−31.5
−31.6
−31.7
−31.8
−31.9
−32
−32.1
pull
Entries 92
Mean −162.7
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

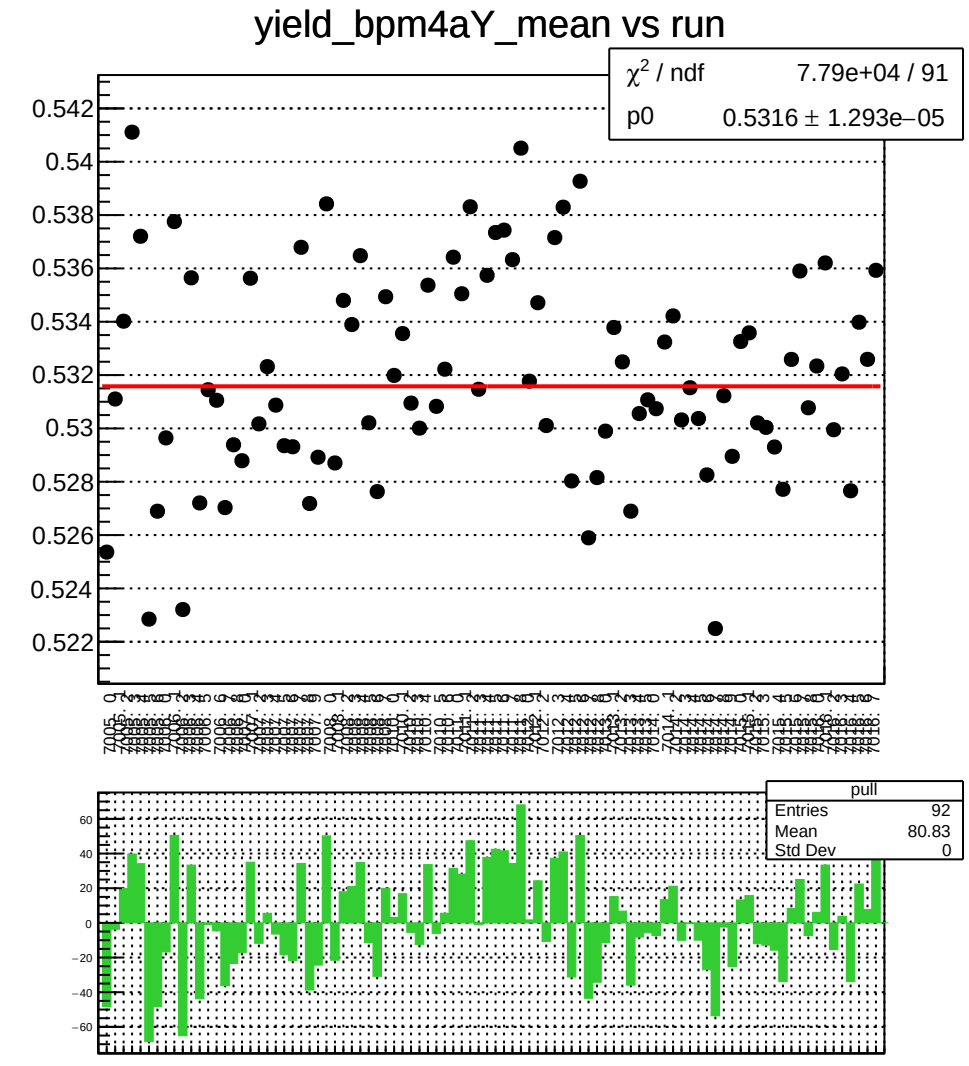

pull1D
Entries 92
Mean 1.049
Std Dev 4.796
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

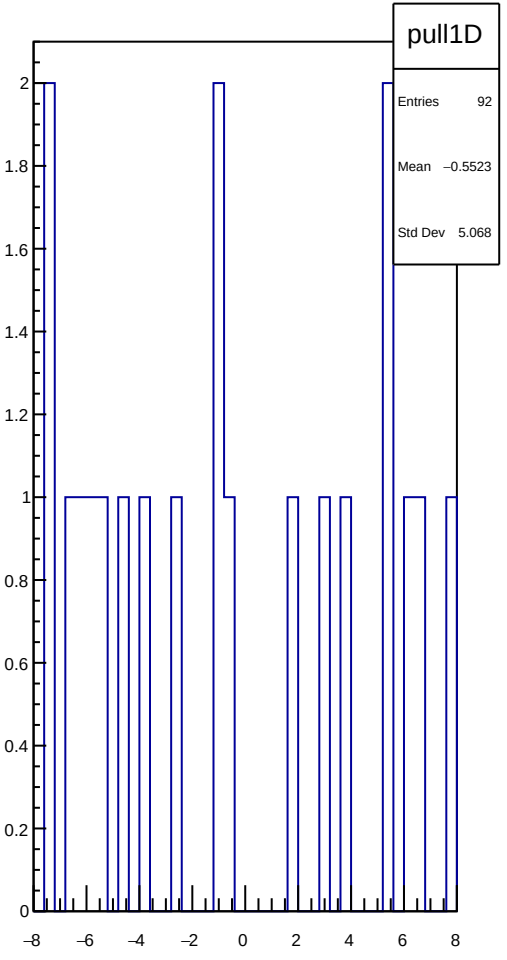

yield_cav4dY_rms vs run
χ² / ndf 3.884e+04 / 91
p0 0.2862 ± 0.000221
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2

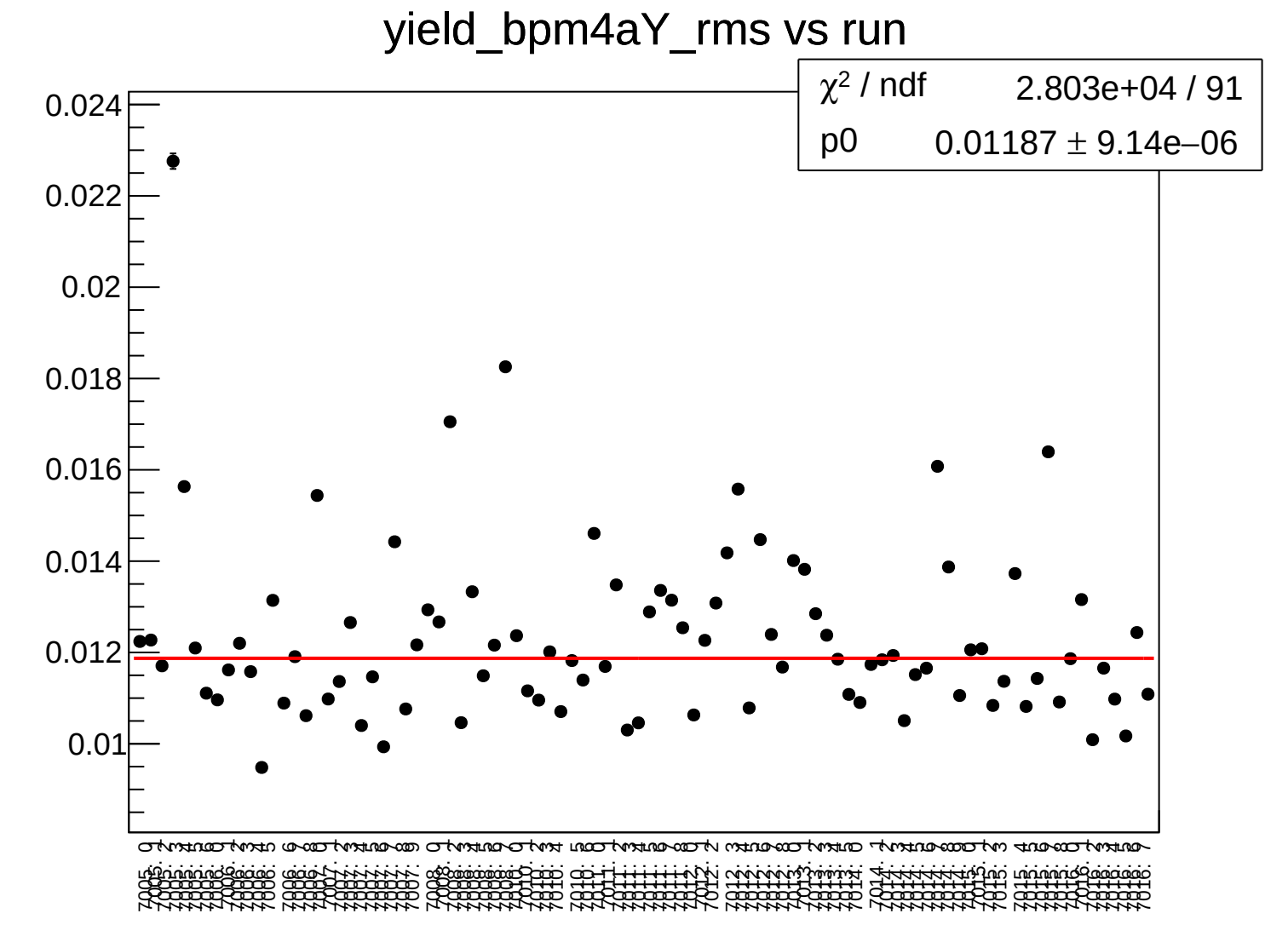

yield_bpm4aX_mean vs run
χ² / ndf 2.056e+05 / 91
p0 −0.7451 ± 2.592e−05
−0.7
−0.71
−0.72
−0.73
−0.74
−0.75
−0.76
−0.77
−0.78
pull
Entries 92
Mean 22.79
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

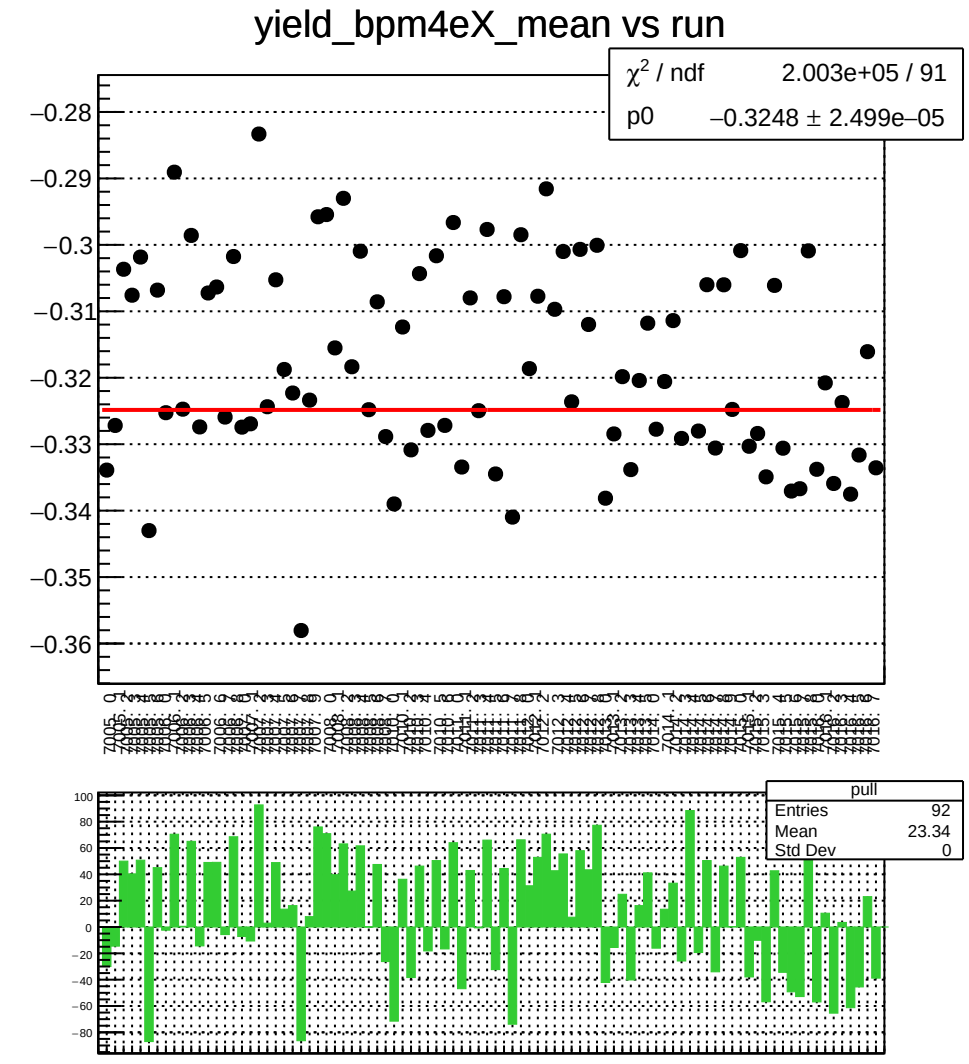

pull1D
Entries 92
Mean 0.5519
Std Dev 3.522
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

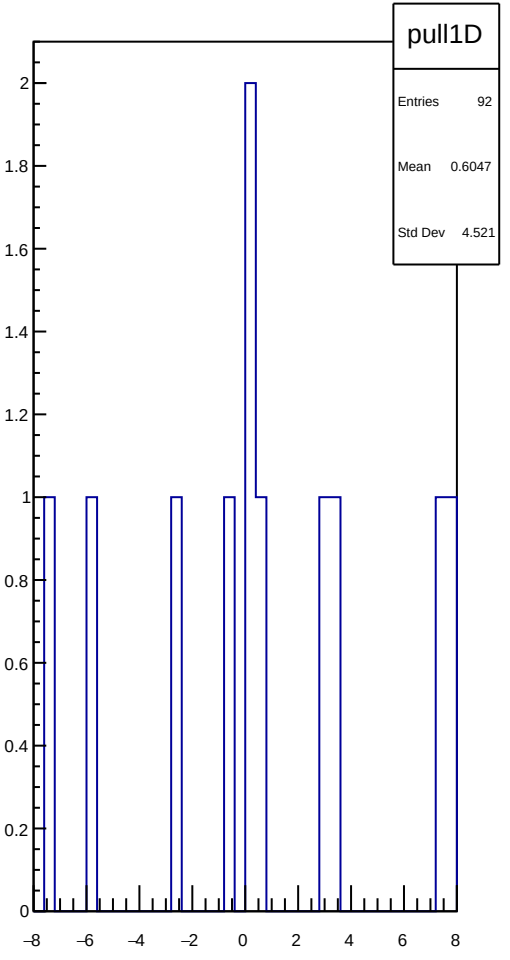

yield_bpm4aX_rms vs run
χ² / ndf 2.555e+05 / 91
p0 0.02215 ± 1.833e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

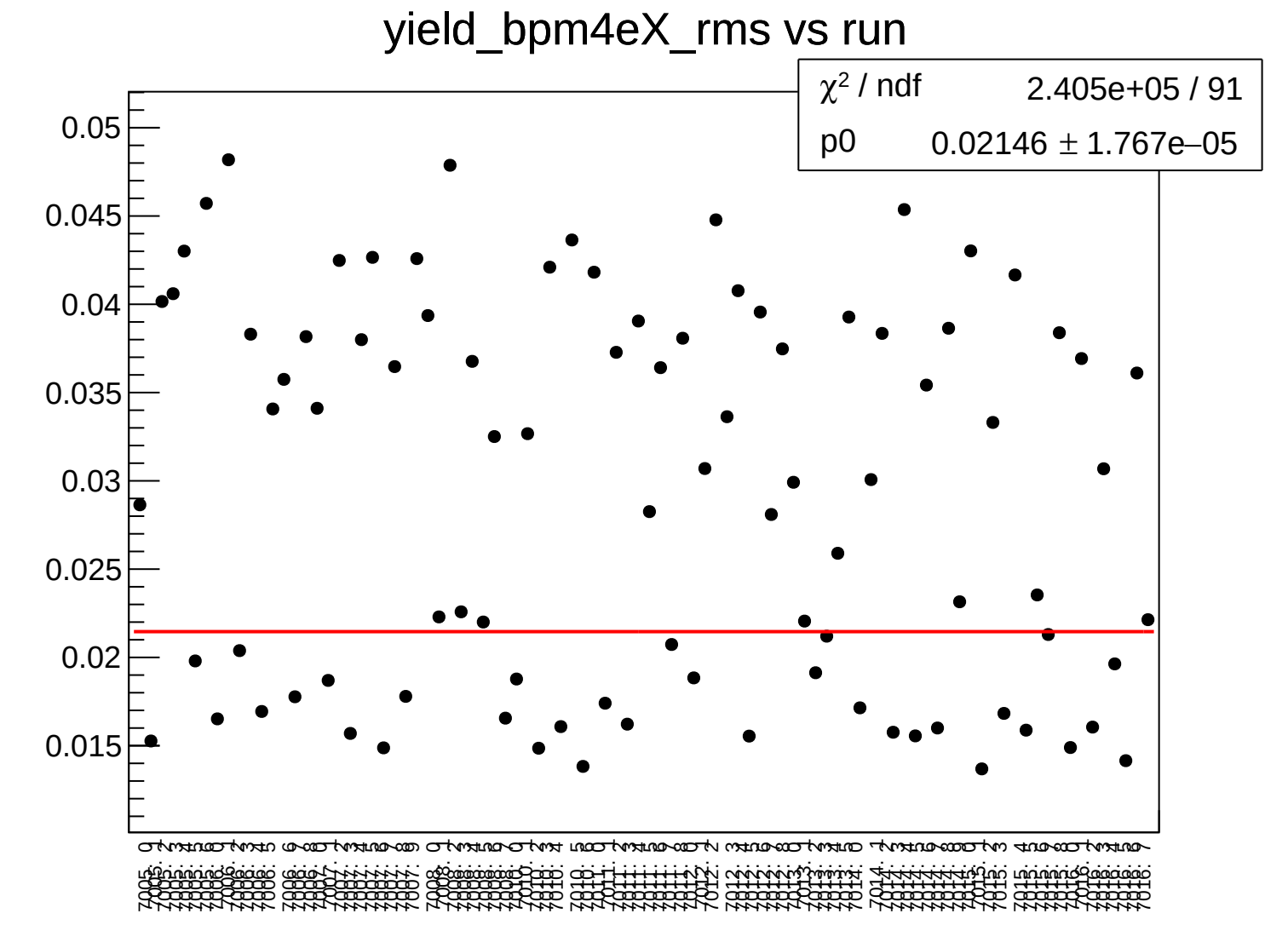

yield_bpm4aY_mean vs run
χ² / ndf 7.79e+04 / 91
p0 0.5316 ± 1.293e−05
0.542
0.54
0.538
0.536
0.534
0.532
0.53
0.528
0.526
0.524
0.522
pull
Entries 92
Mean 80.83
Std Dev 0
60
40
20
0
−20
−40
−60

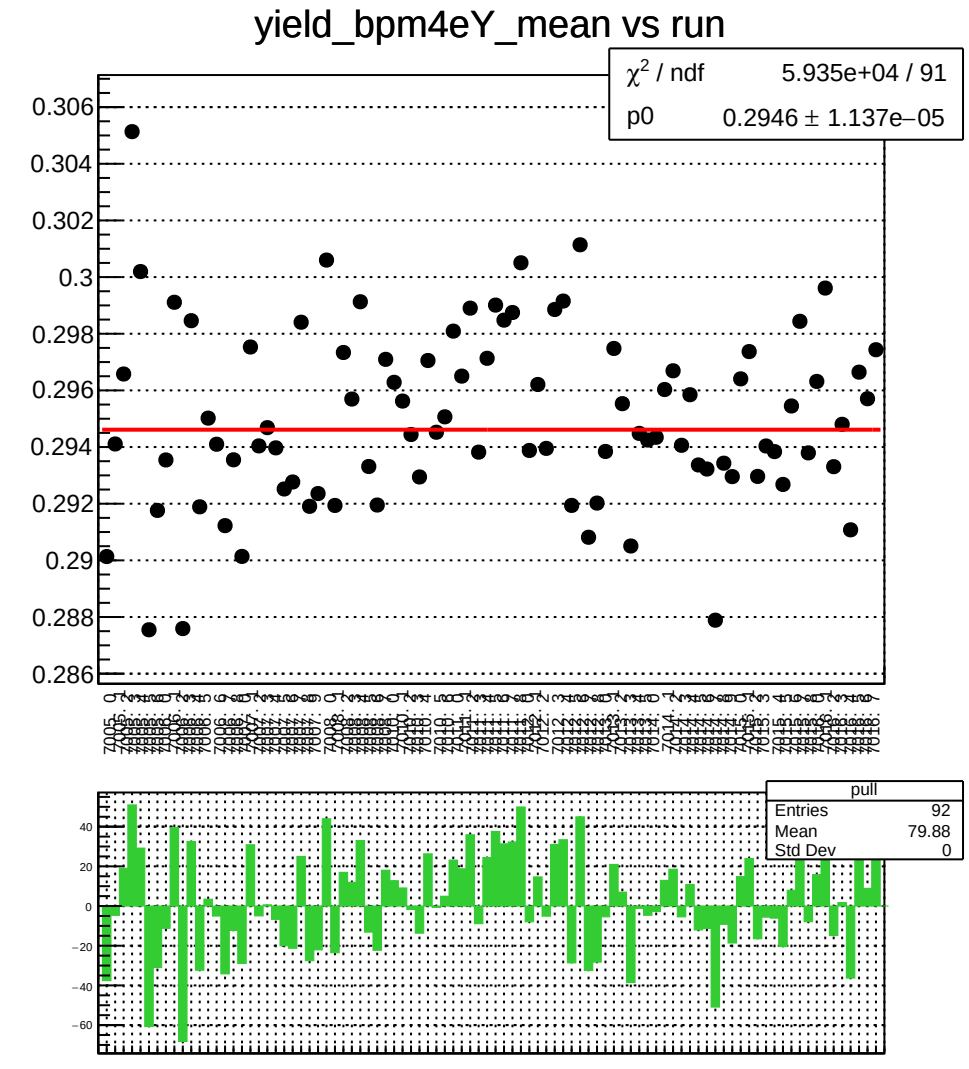

pull1D
Entries 92
Mean −0.5523
Std Dev 5.068
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

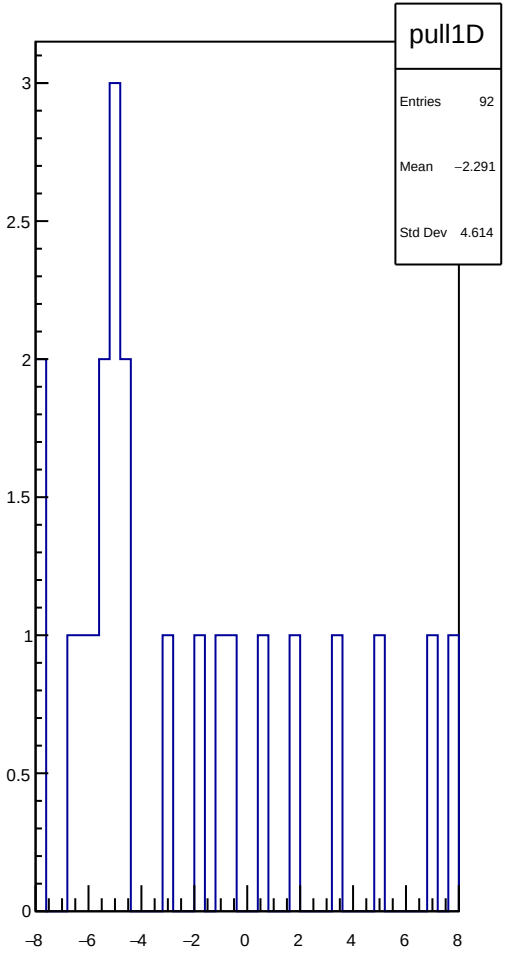

yield_bpm4aY_rms vs run
χ² / ndf 2.803e+04 / 91
p0 0.01187 ± 9.14e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

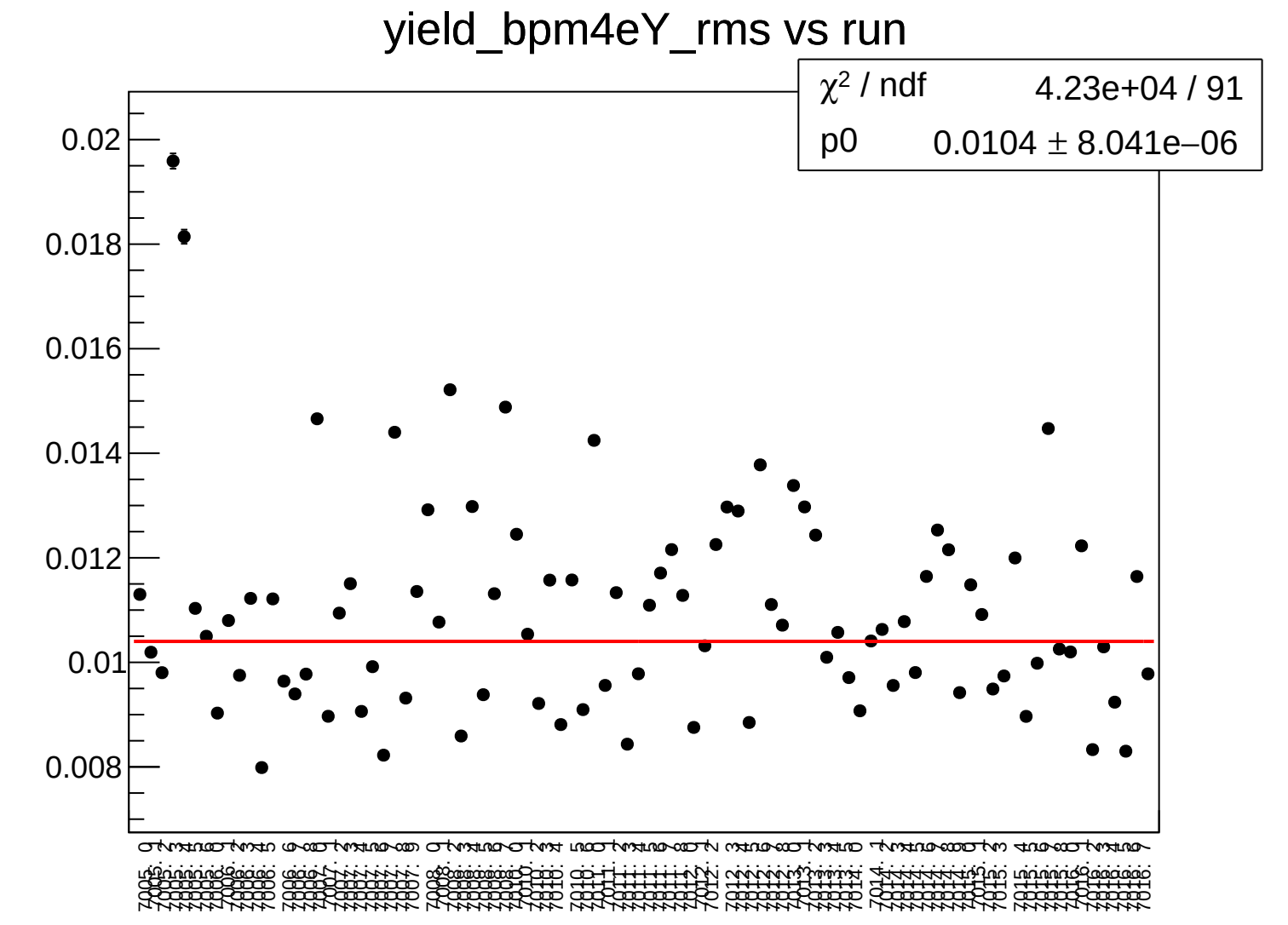

yield_bpm4eX_mean vs run
$\chi^2$ / ndf 2.003e+05 / 91
p0 −0.3248 ± 2.499e−05
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
−0.35
−0.36
pull
Entries 92
Mean 23.34
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

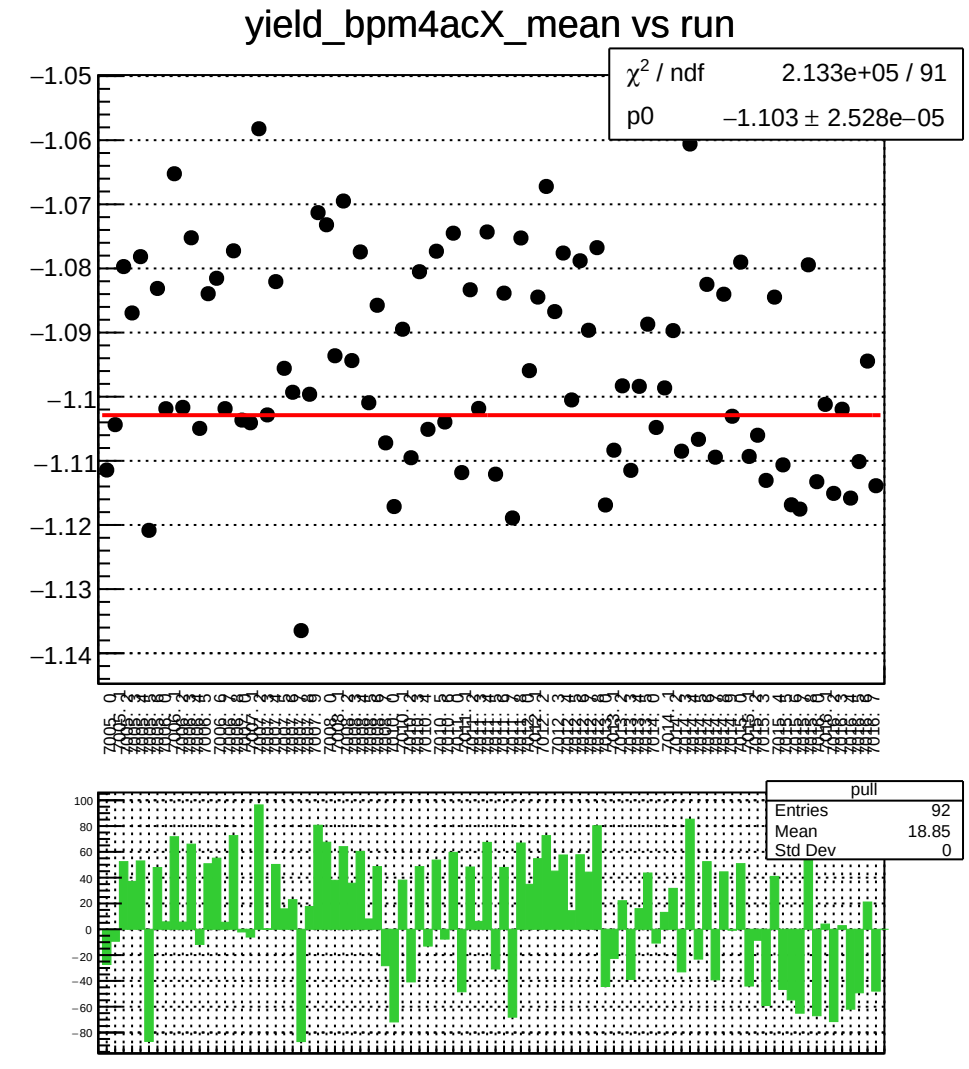

pull1D
Entries 92
Mean 0.6047
Std Dev 4.521
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

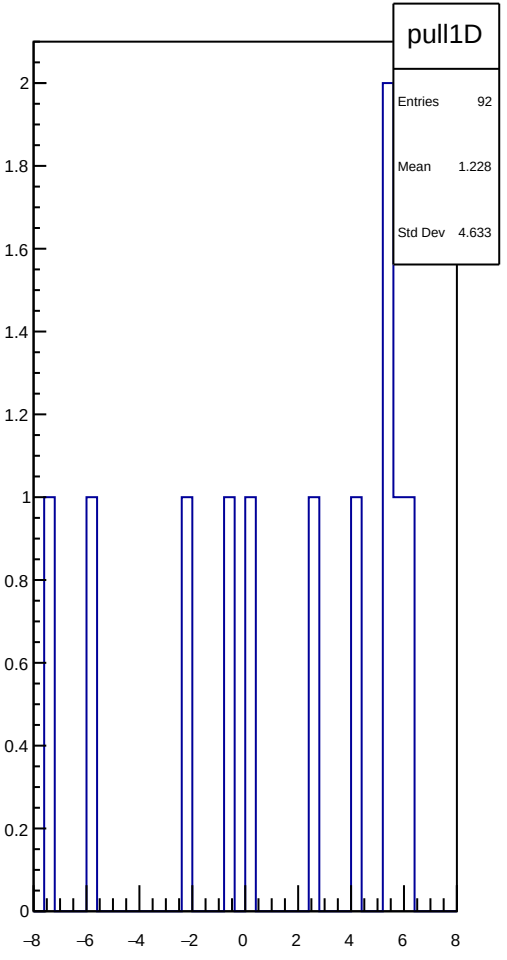

yield_bpm4eX_rms vs run
χ² / ndf 2.405e+05 / 91
p0 0.02146 ± 1.767e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

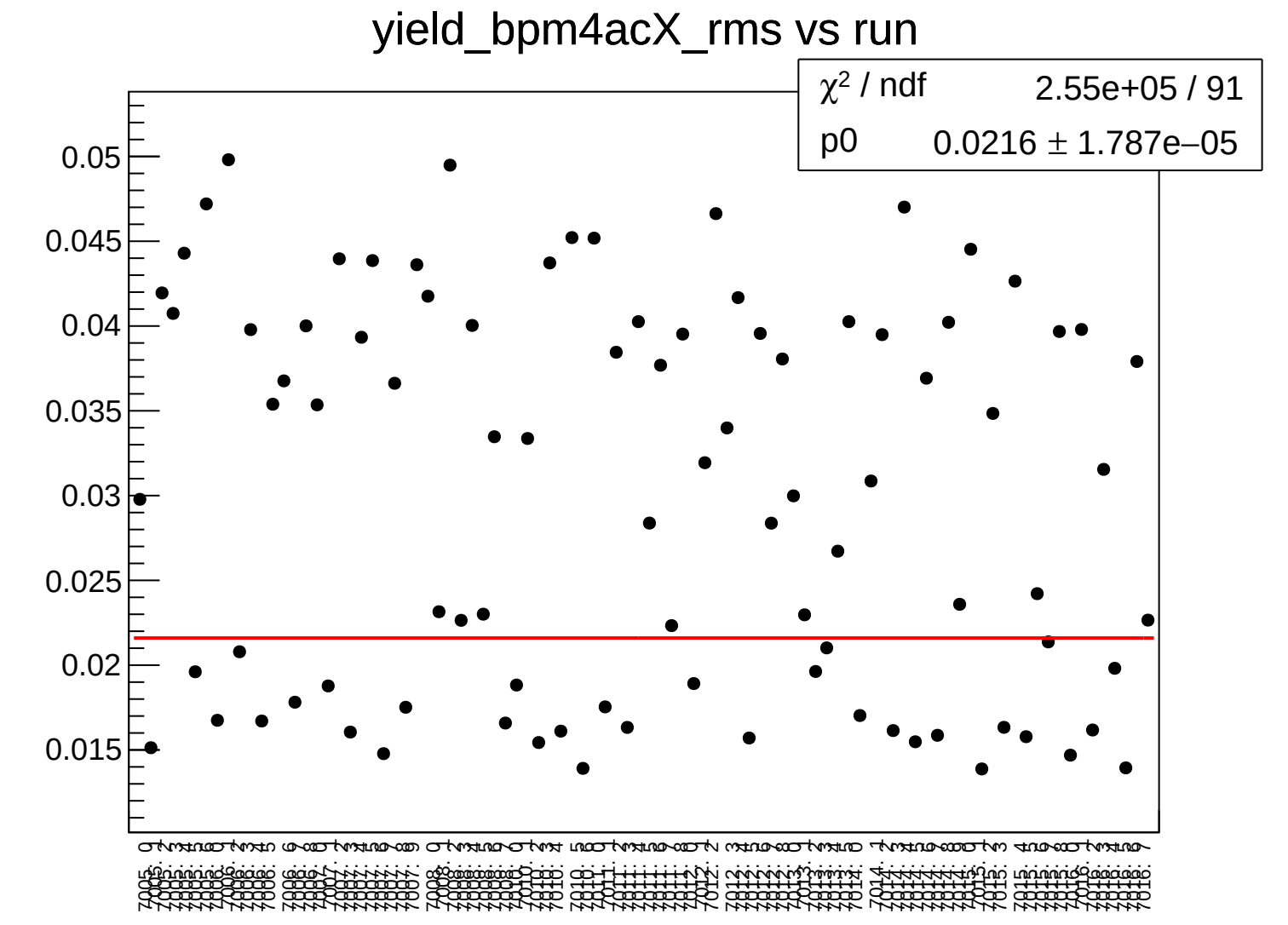

yield_bpm4eY_mean vs run
χ² / ndf 5.935e+04 / 91
p0 0.2946 ± 1.137e−05
0.306
0.304
0.302
0.3
0.298
0.296
0.294
0.292
0.29
0.288
0.286
pull
Entries 92
Mean 79.88
Std Dev 0
40
20
0
−20
−40
−60

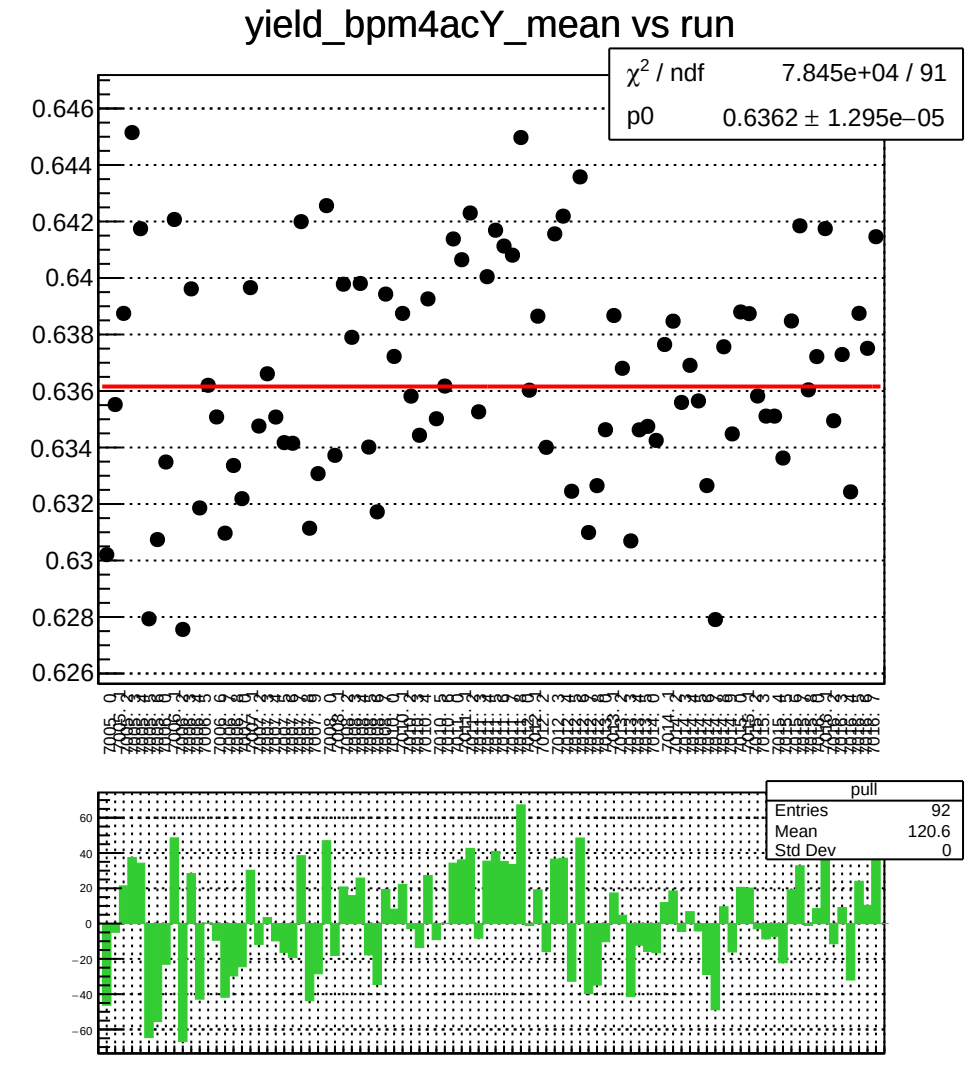

pull1D
Entries 92
Mean −2.291
Std Dev 4.614
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

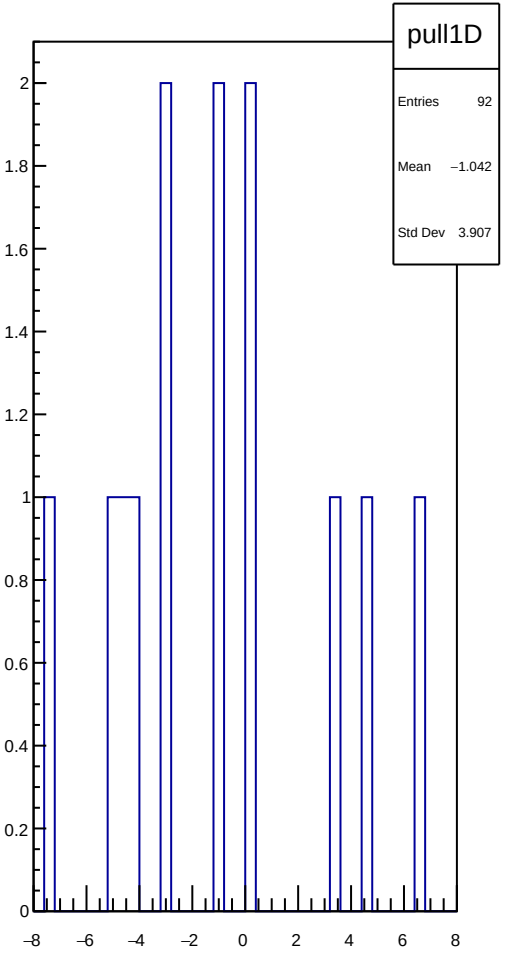

yield_bpm4eY_rms vs run
χ² / ndf 4.23e+04 / 91
p0 0.0104 ± 8.041e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

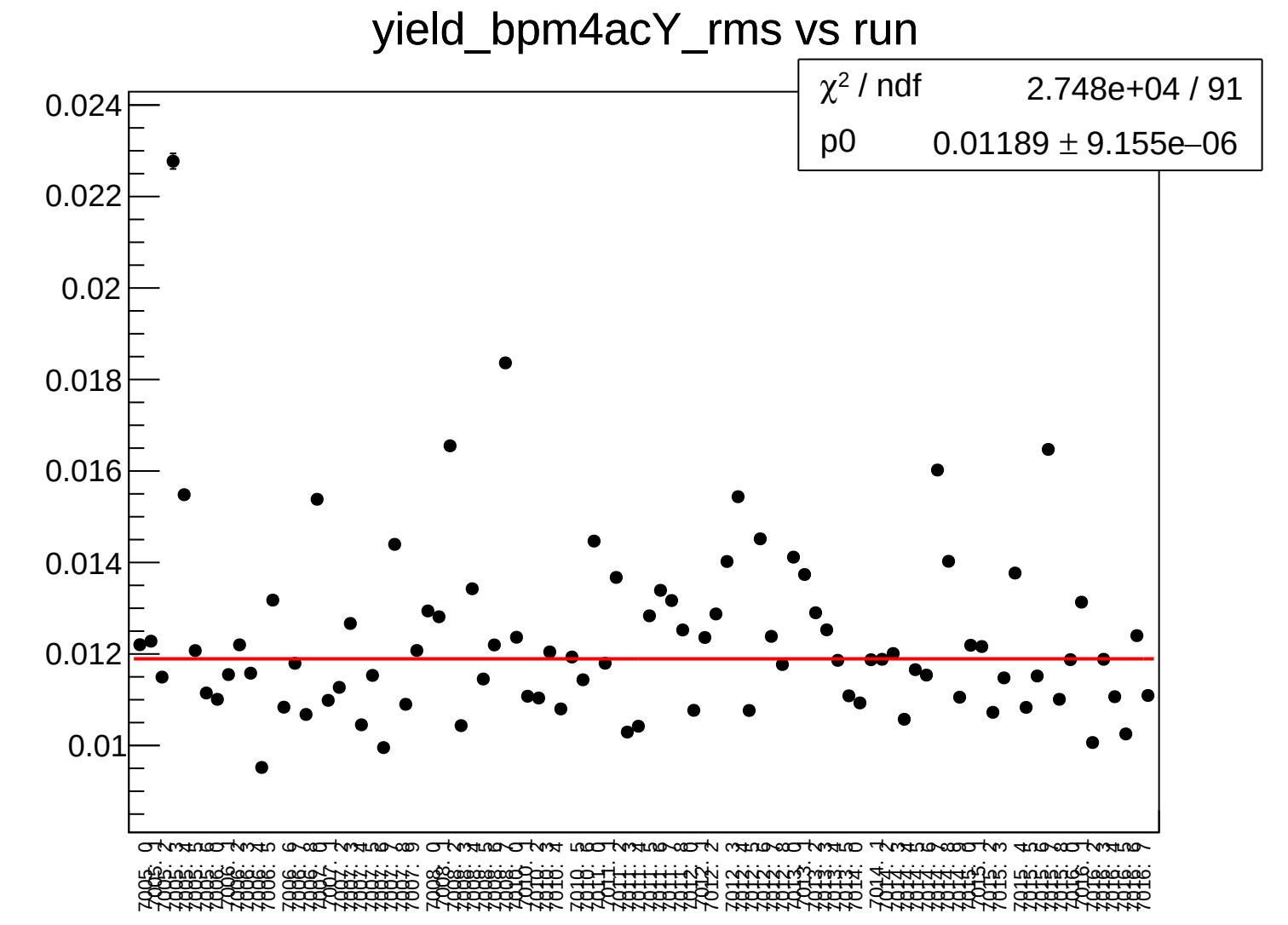

yield_bpm4acX_mean vs run
χ² / ndf 2.133e+05 / 91
p0 −1.103 ± 2.528e−05
pull
Entries 92
Mean 18.85
Std Dev 0

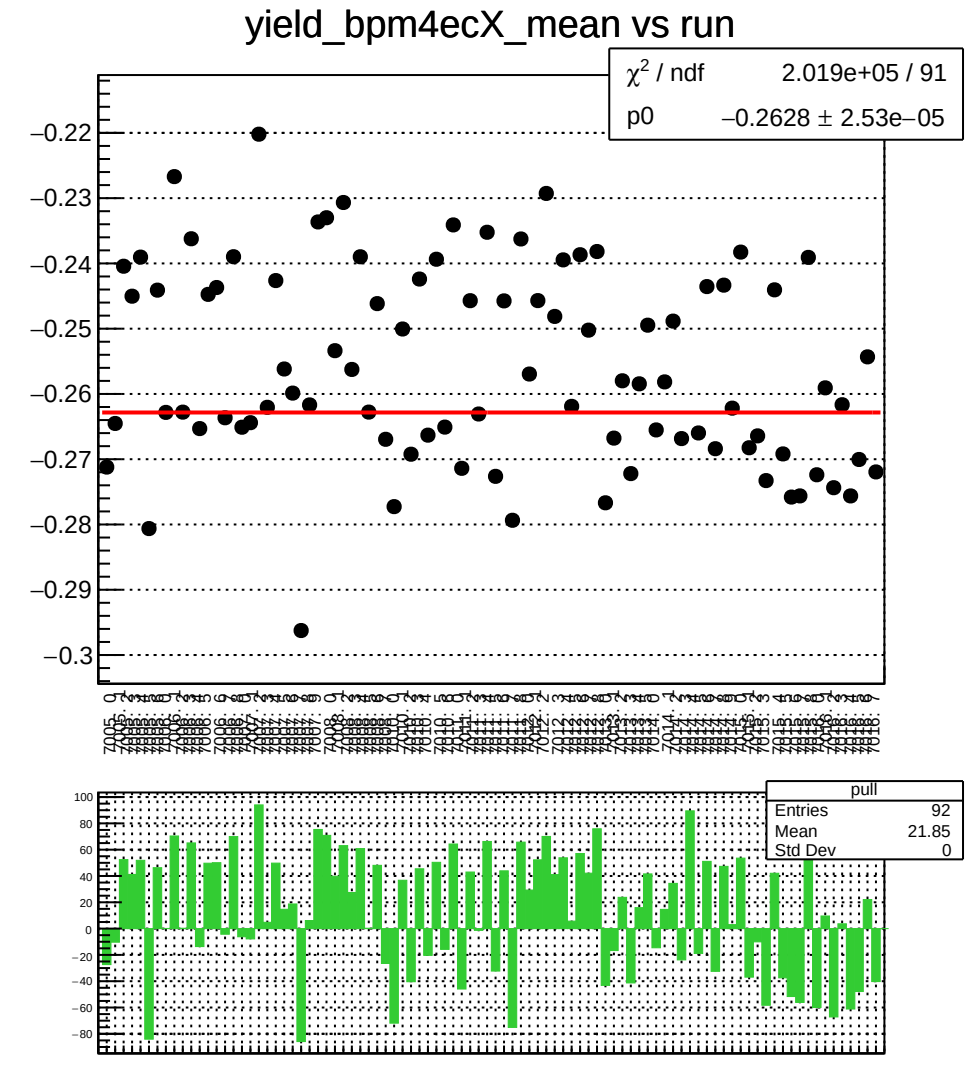

pull1D
Entries 92
Mean 1.228
Std Dev 4.633

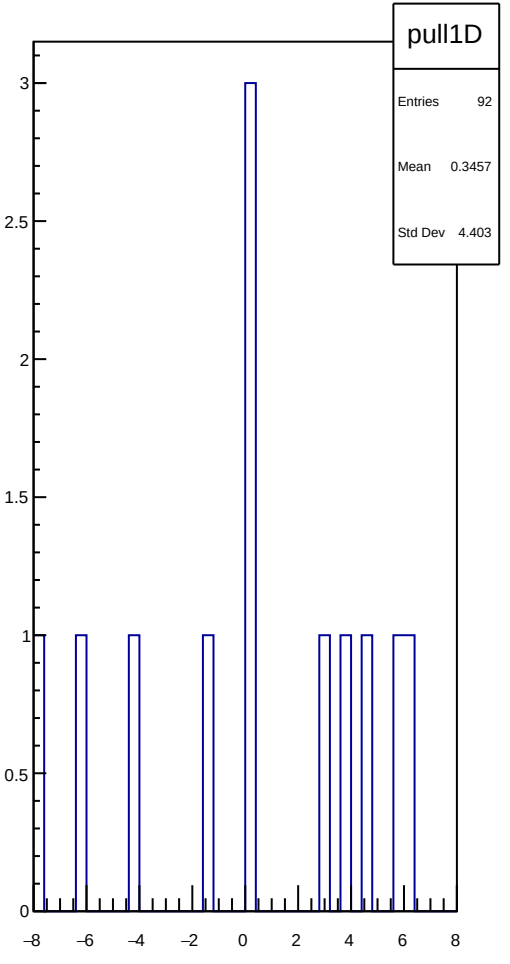

yield_bpm4acX_rms vs run
χ² / ndf 2.55e+05 / 91
p0 0.0216 ± 1.787e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

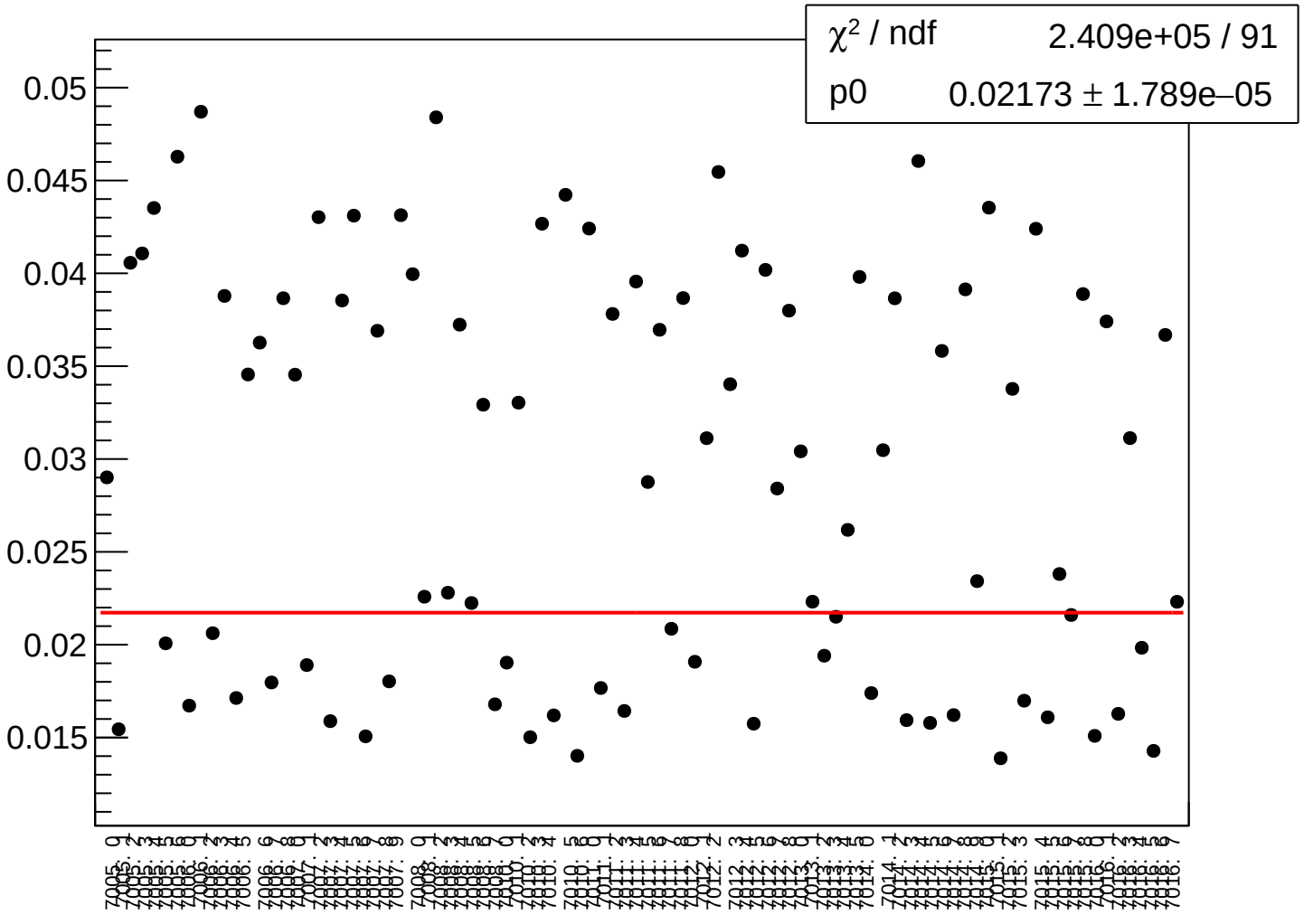

yield_bpm4acY_mean vs run
χ² / ndf 7.845e+04 / 91
p0 0.6362 ± 1.295e−05
0.646
0.644
0.642
0.64
0.638
0.636
0.634
0.632
0.63
0.628
0.626
pull
Entries 92
Mean 120.6
Std Dev 0
60
40
20
0
−20
−40
−60

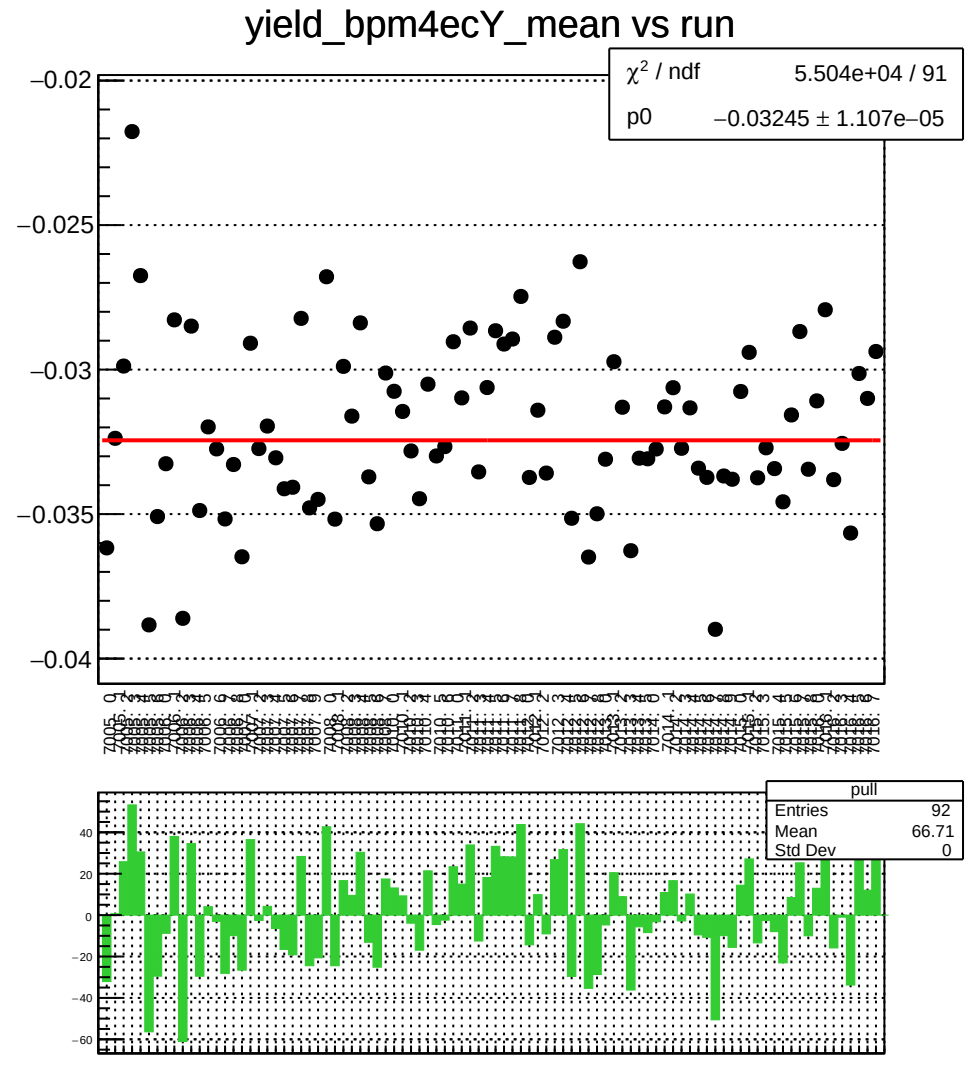

pull1D
Entries 92
Mean −1.042
Std Dev 3.907
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

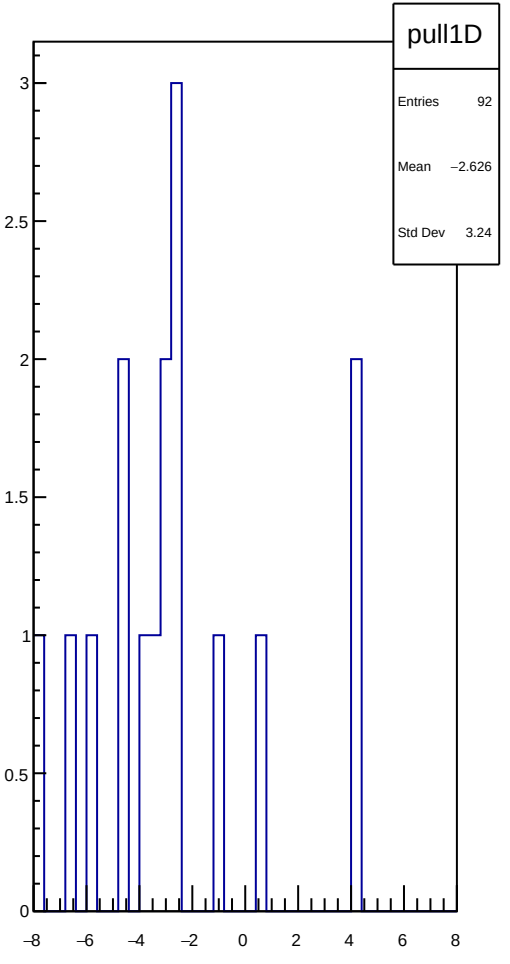

yield_bpm4acY_rms vs run
χ² / ndf 2.748e+04 / 91
p0 0.01189 ± 9.155e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

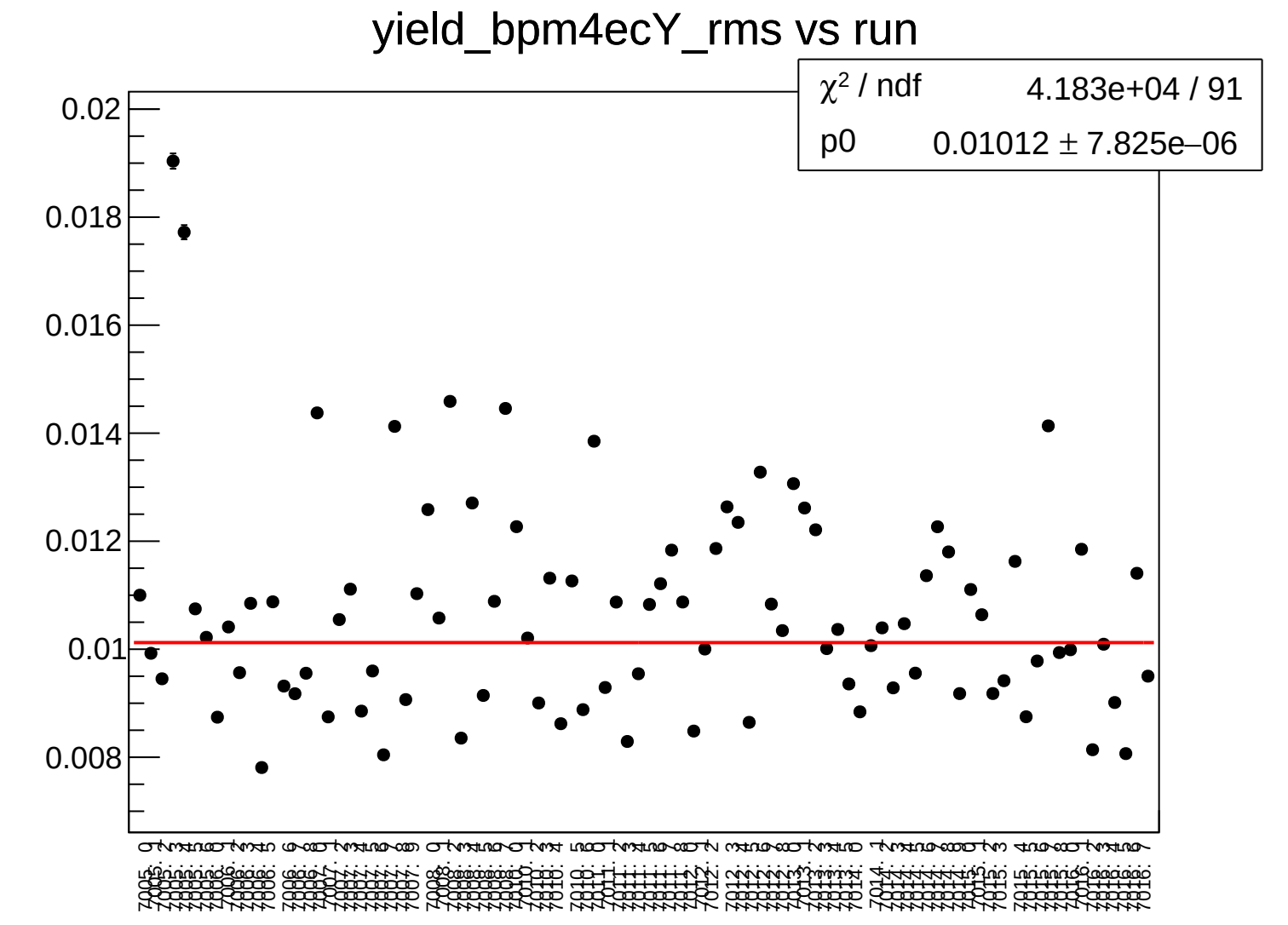

yield_bpm4ecX_mean vs run
χ² / ndf 2.019e+05 / 91
p0 −0.2628 ± 2.53e−05
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
pull
Entries 92
Mean 21.85
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

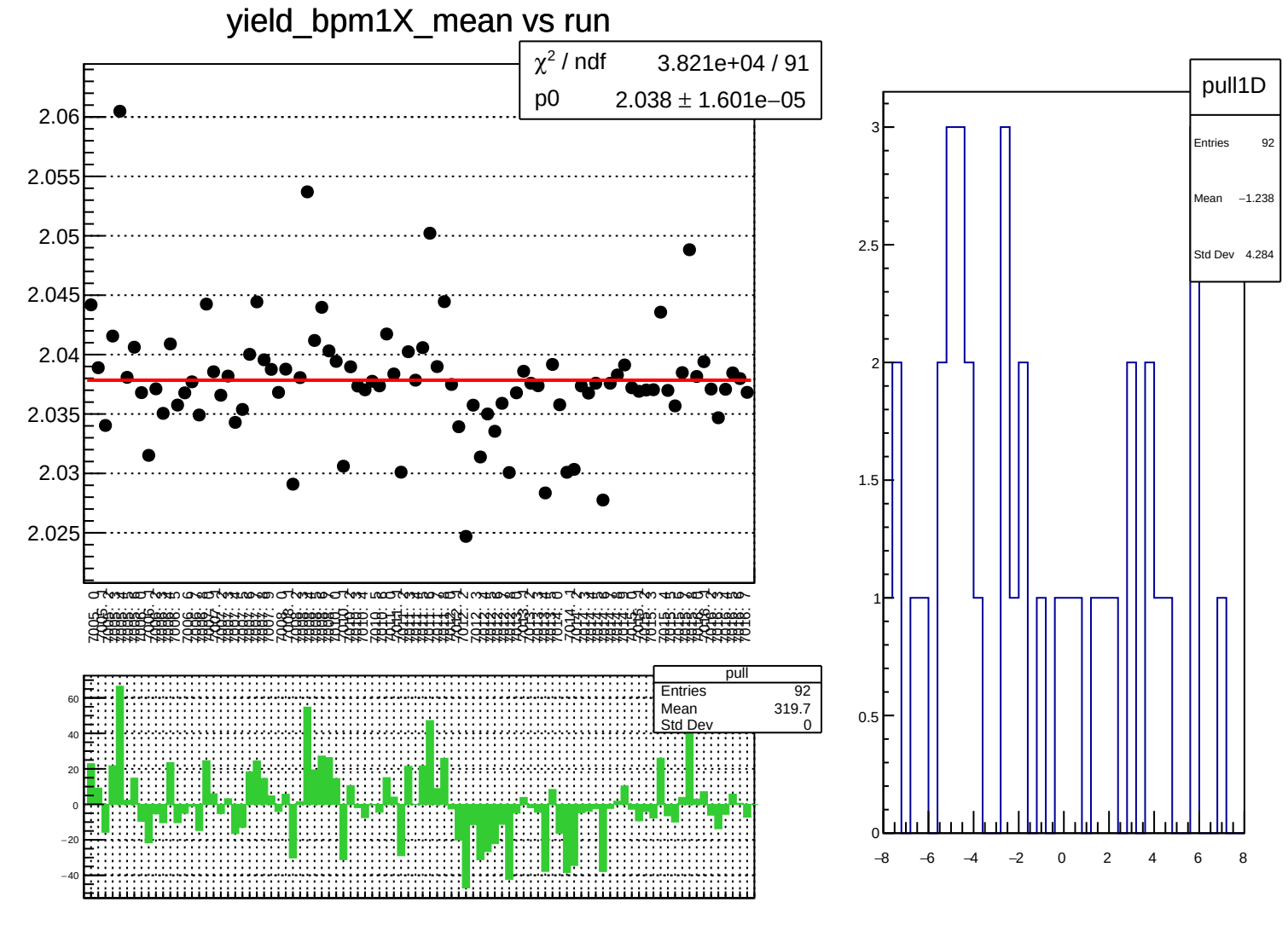

pull1D
Entries 92
Mean 0.3457
Std Dev 4.403
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

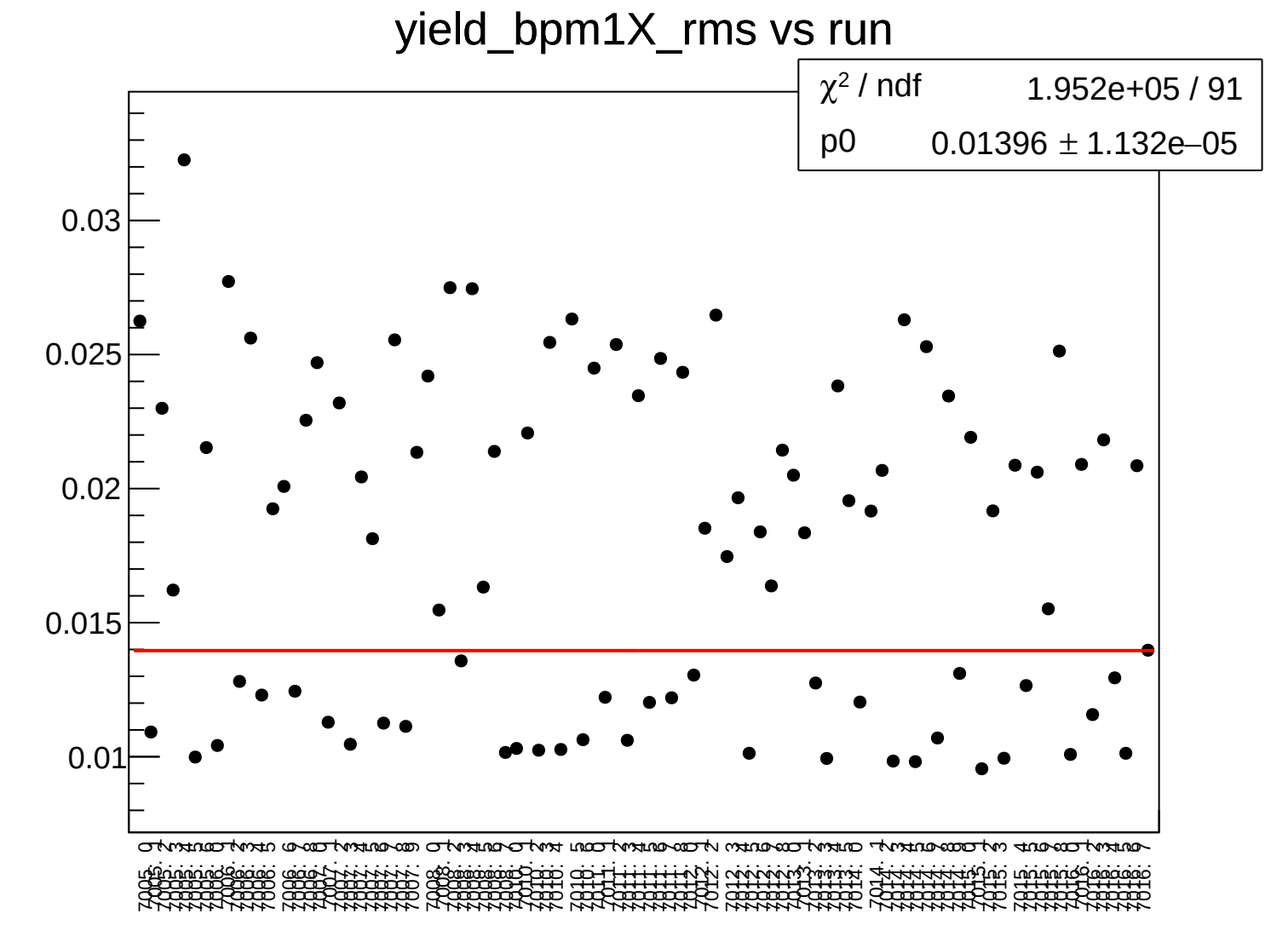

yield_bpm4ecX_rms vs run
χ² / ndf 2.409e+05 / 91
p0 0.02173 ± 1.789e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

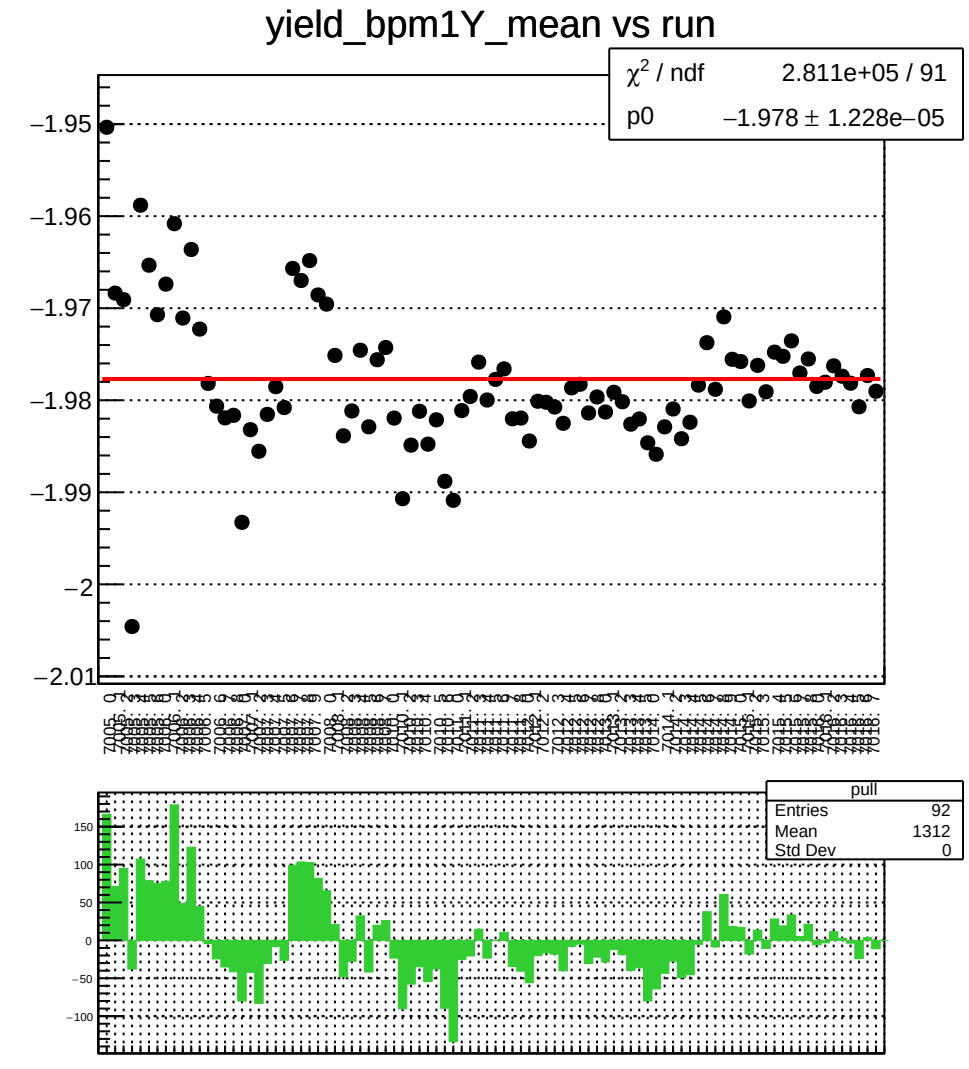

yield_bpm4ecY_mean vs run
χ² / ndf 5.504e+04 / 91
p0 −0.03245 ± 1.107e−05
−0.02
−0.025
−0.03
−0.035
−0.04
pull
Entries 92
Mean 66.71
Std Dev 0
40
20
0
−20
−40
−60

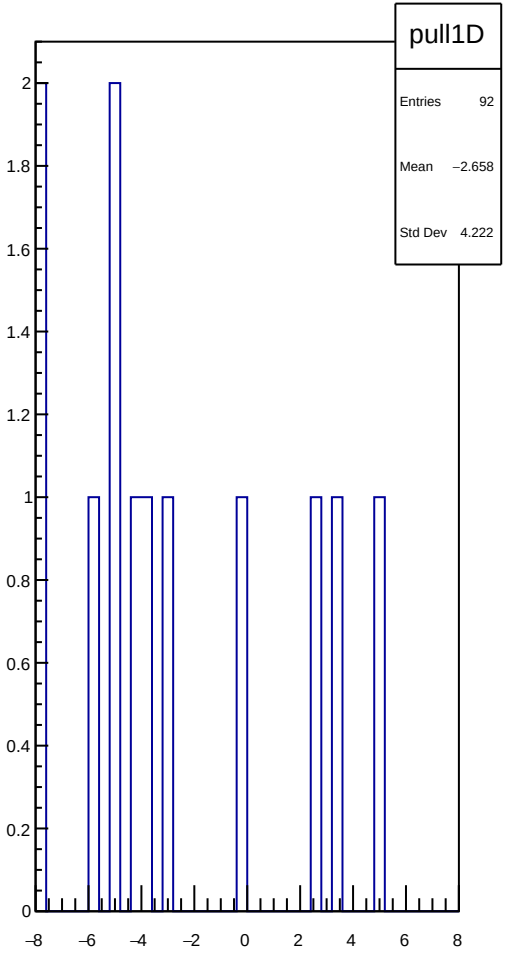

pull1D
Entries 92
Mean −2.626
Std Dev 3.24
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

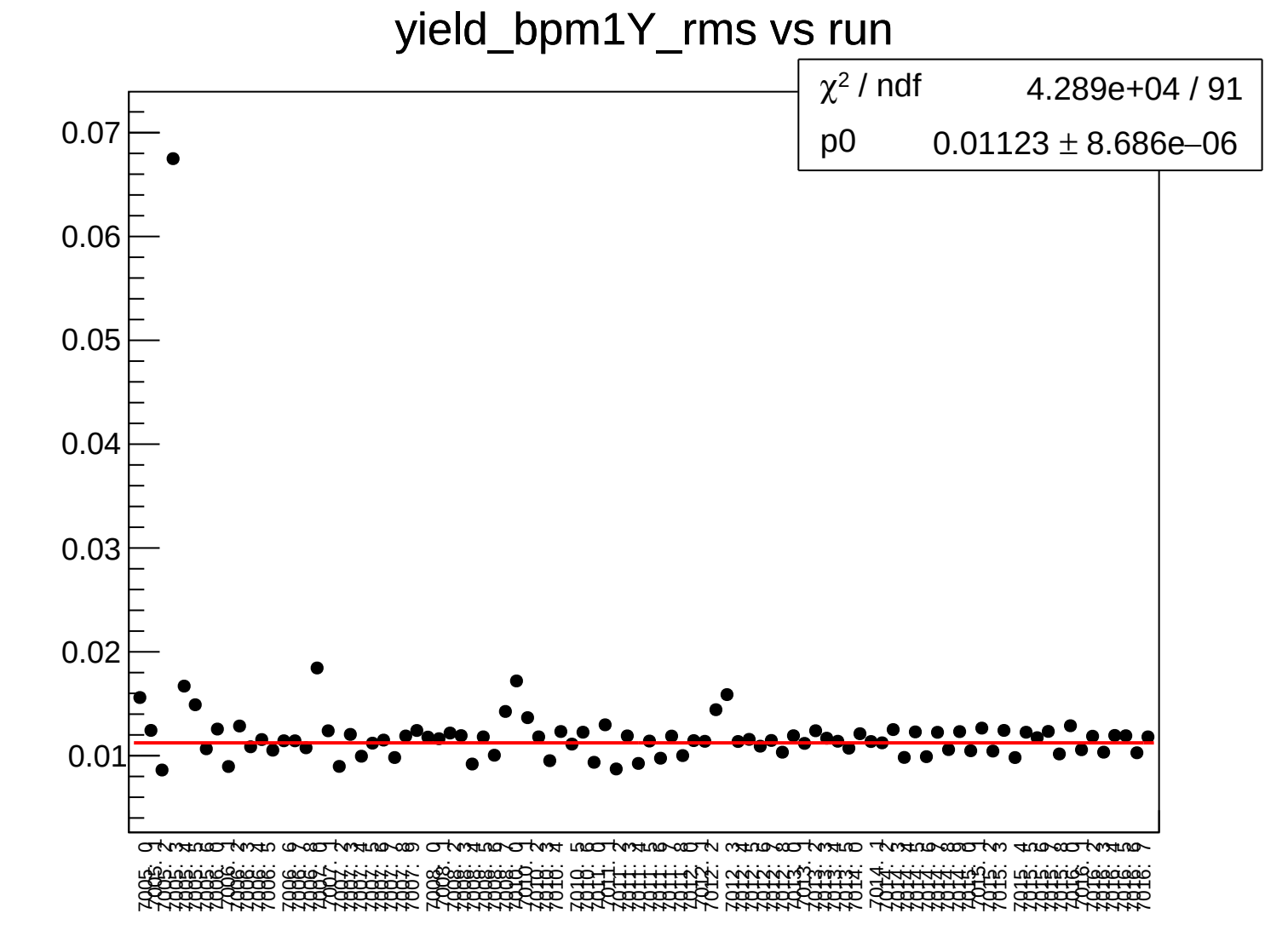

yield_bpm4ecY_rms vs run
χ² / ndf 4.183e+04 / 91
p0 0.01012 ± 7.825e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

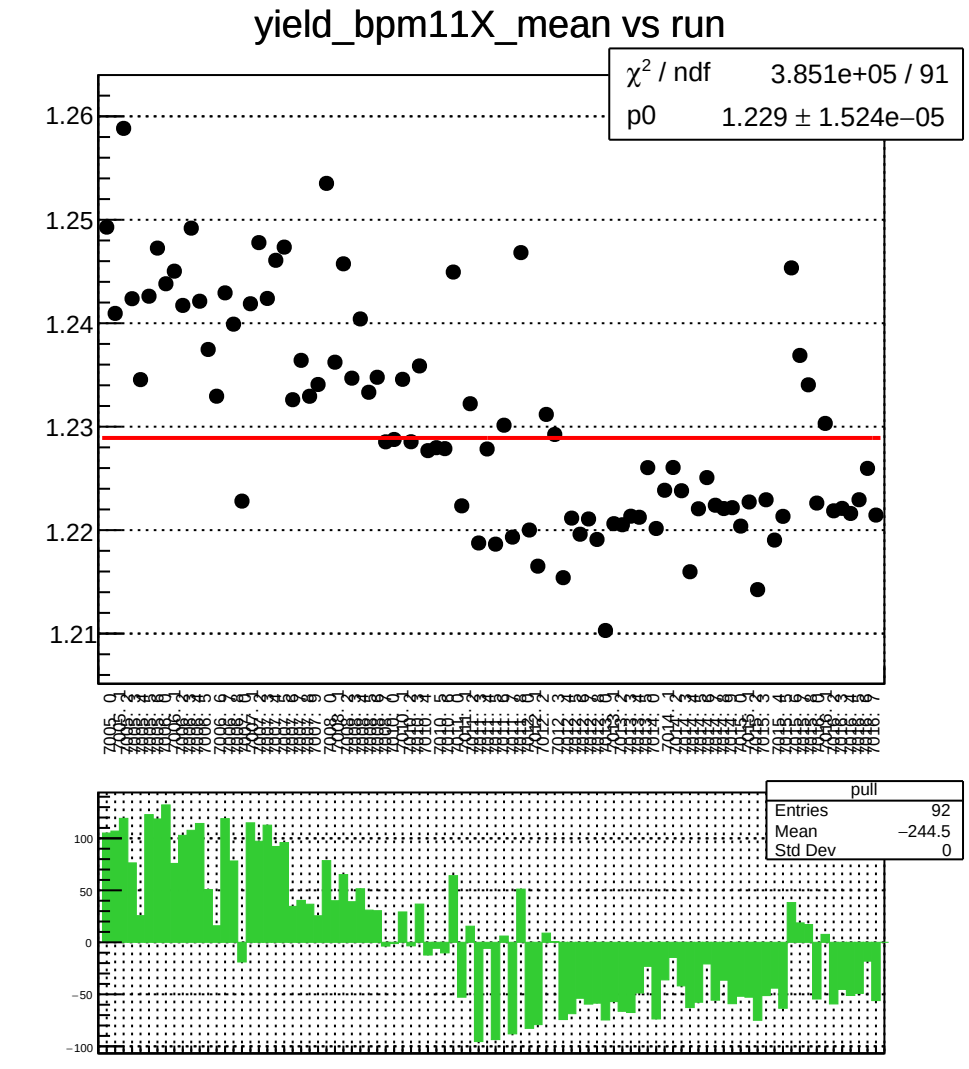

yield_bpm1X_mean vs run
χ² / ndf 3.821e+04 / 91
p0 2.038 ± 1.601e−05
2.06
2.055
2.05
2.045
2.04
2.035
2.03
2.025
pull
Entries 92
Mean 319.7
Std Dev 0
60
40
20
0
−20
−40
pull1D
Entries 92
Mean −1.238
Std Dev 4.284
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

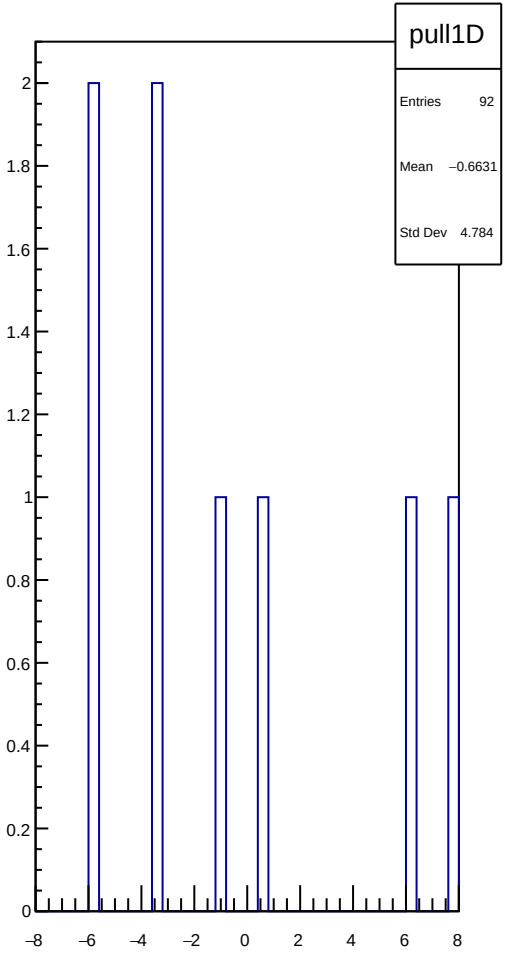

yield_bpm1X_rms vs run
χ² / ndf 1.952e+05 / 91
p0 0.01396 ± 1.132e–05
0.03
0.025
0.02
0.015
0.01

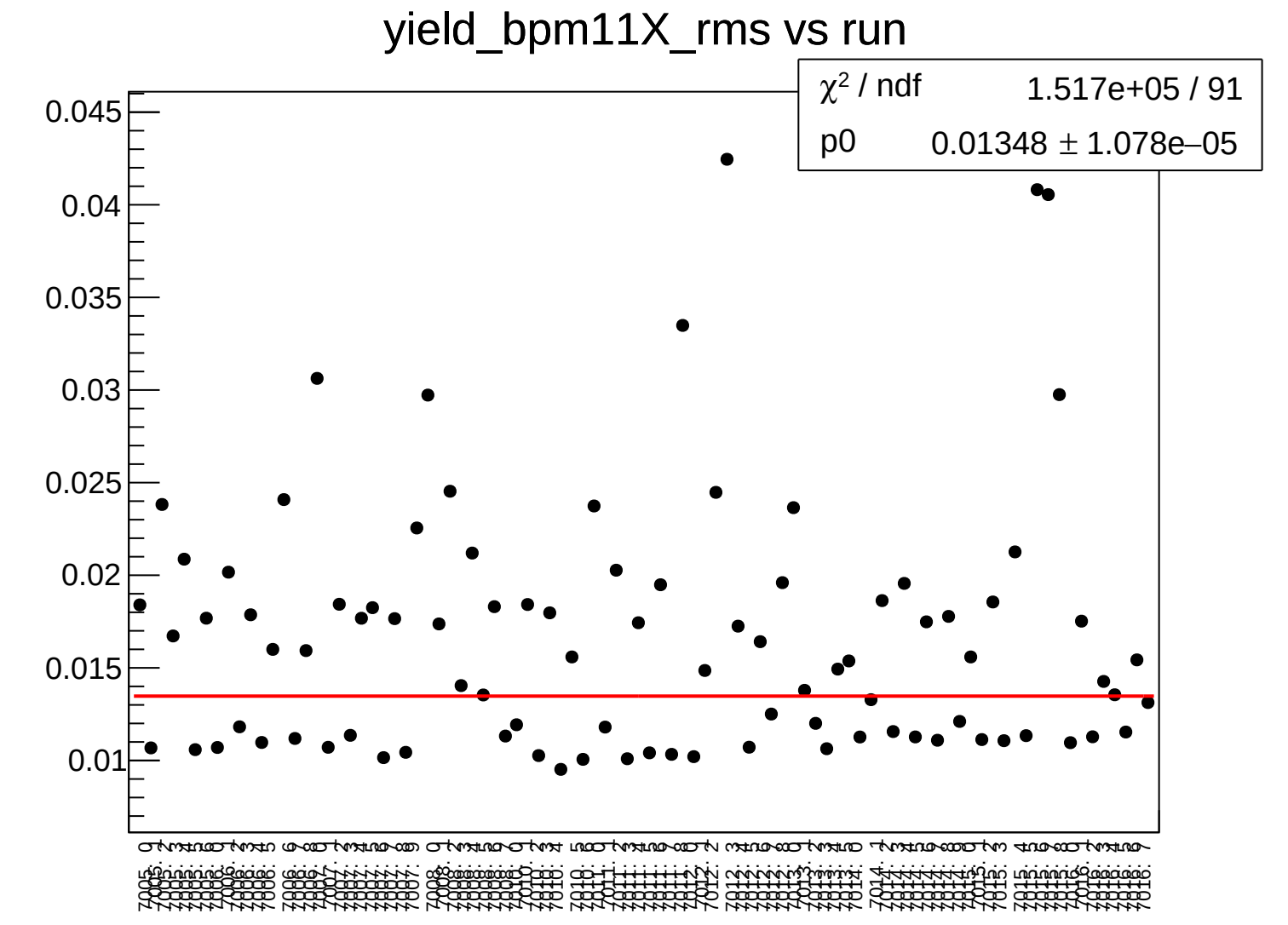

yield_bpm1Y_mean vs run
χ² / ndf 2.811e+05 / 91
p0 −1.978 ± 1.228e−05
−1.95
−1.96
−1.97
−1.98
−1.99
−2
−2.01
pull
Entries 92
Mean 1312
Std Dev 0
150
100
50
0
−50
−100

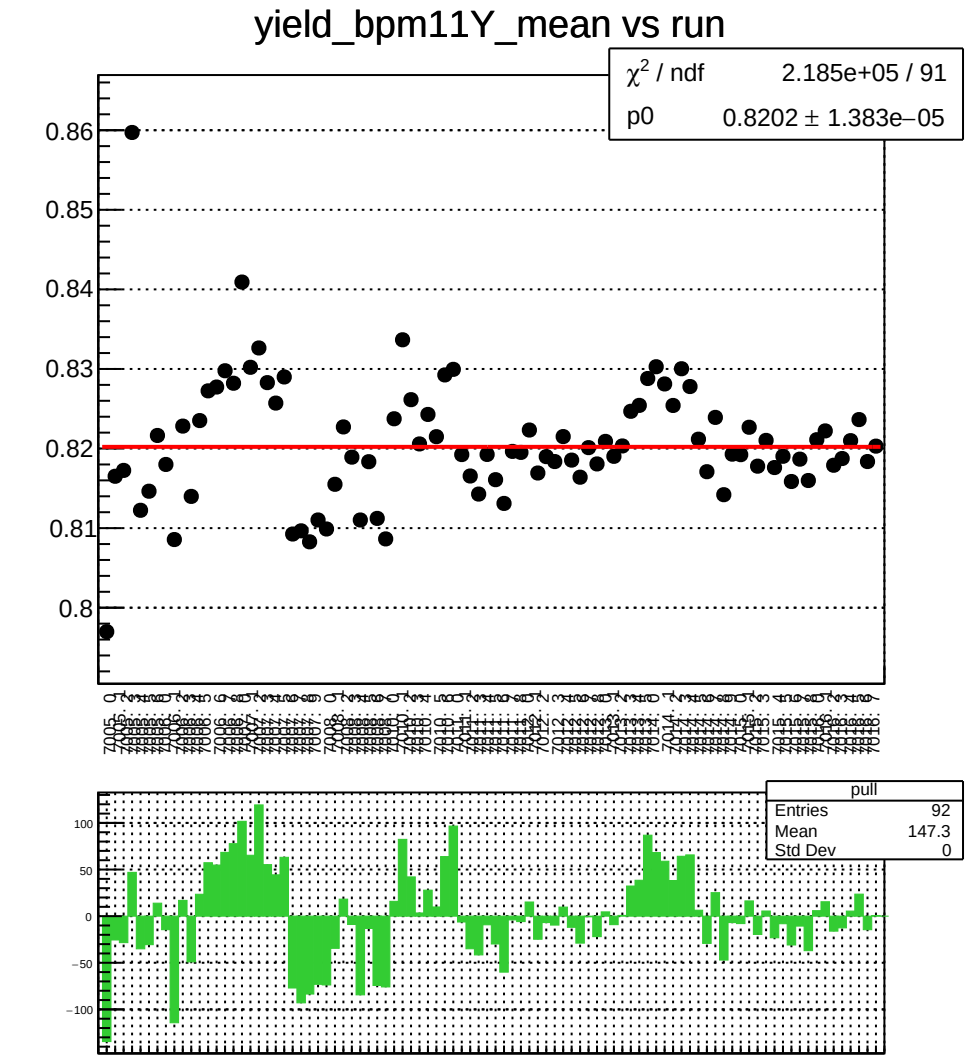

pull1D
Entries 92
Mean −2.658
Std Dev 4.222
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

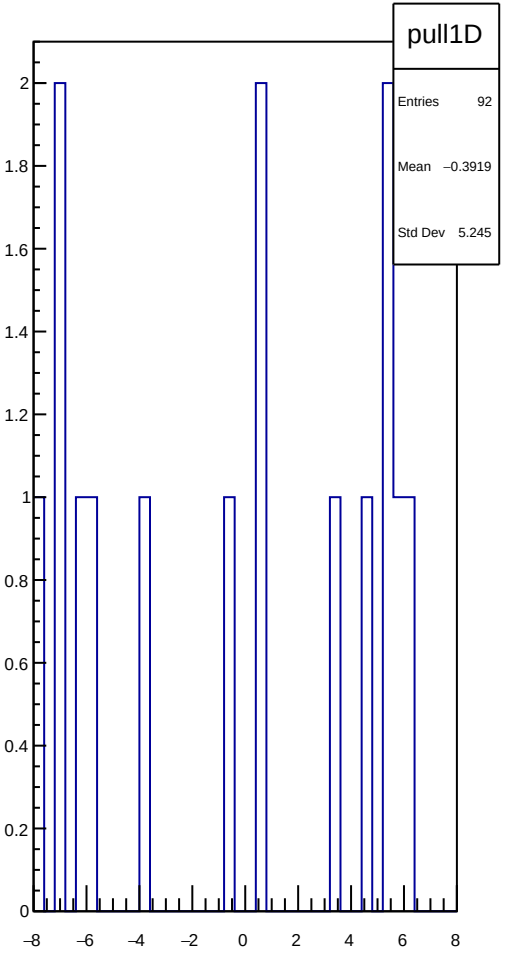

yield_bpm1Y_rms vs run
χ² / ndf 4.289e+04 / 91
p0 0.01123 ± 8.686e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

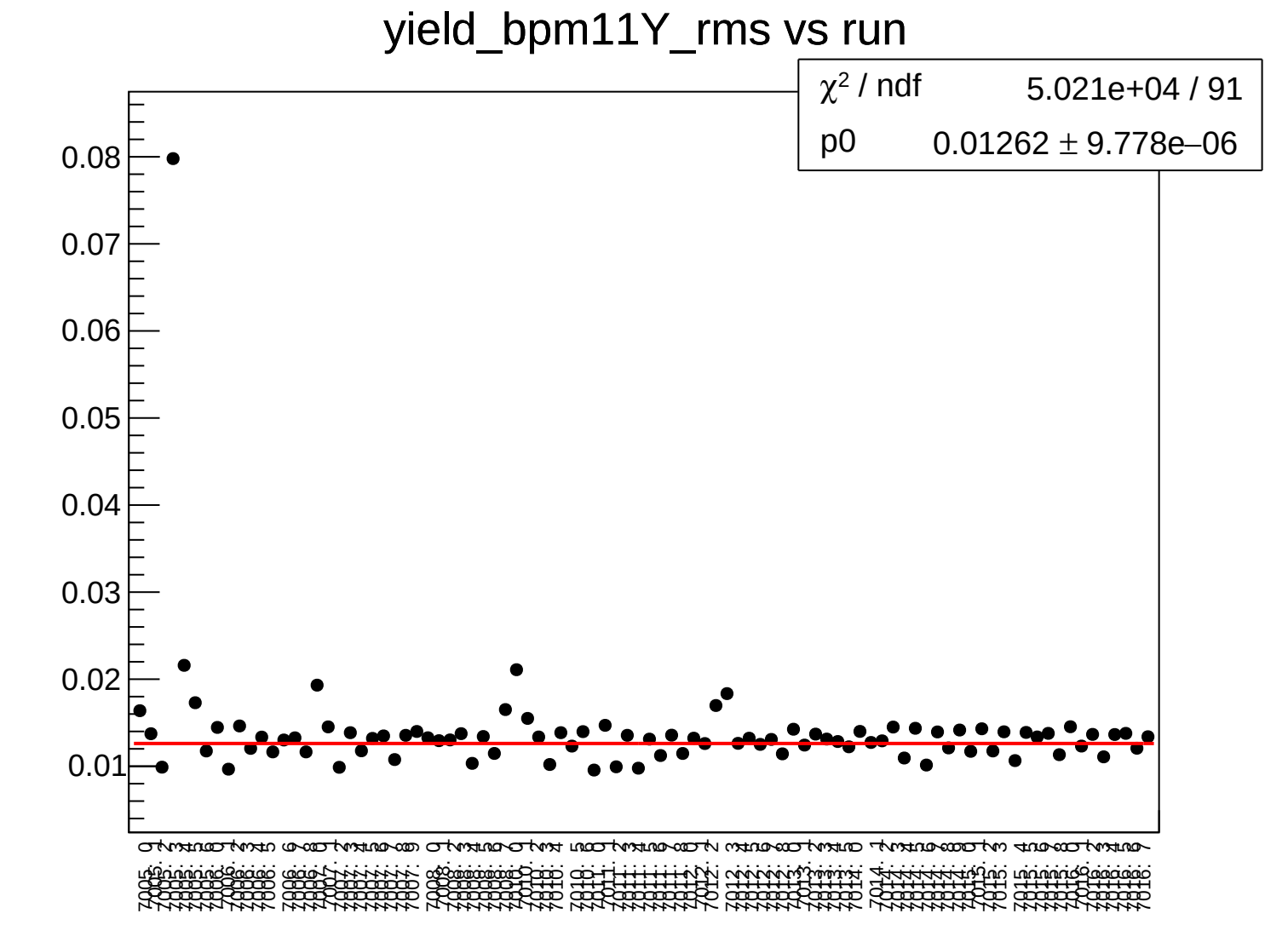

yield_bpm11X_mean vs run
χ² / ndf 3.851e+05 / 91
p0 1.229 ± 1.524e−05
1.26
1.25
1.24
1.23
1.22
1.21
pull
Entries 92
Mean −244.5
Std Dev 0
100
50
0
−50
−100

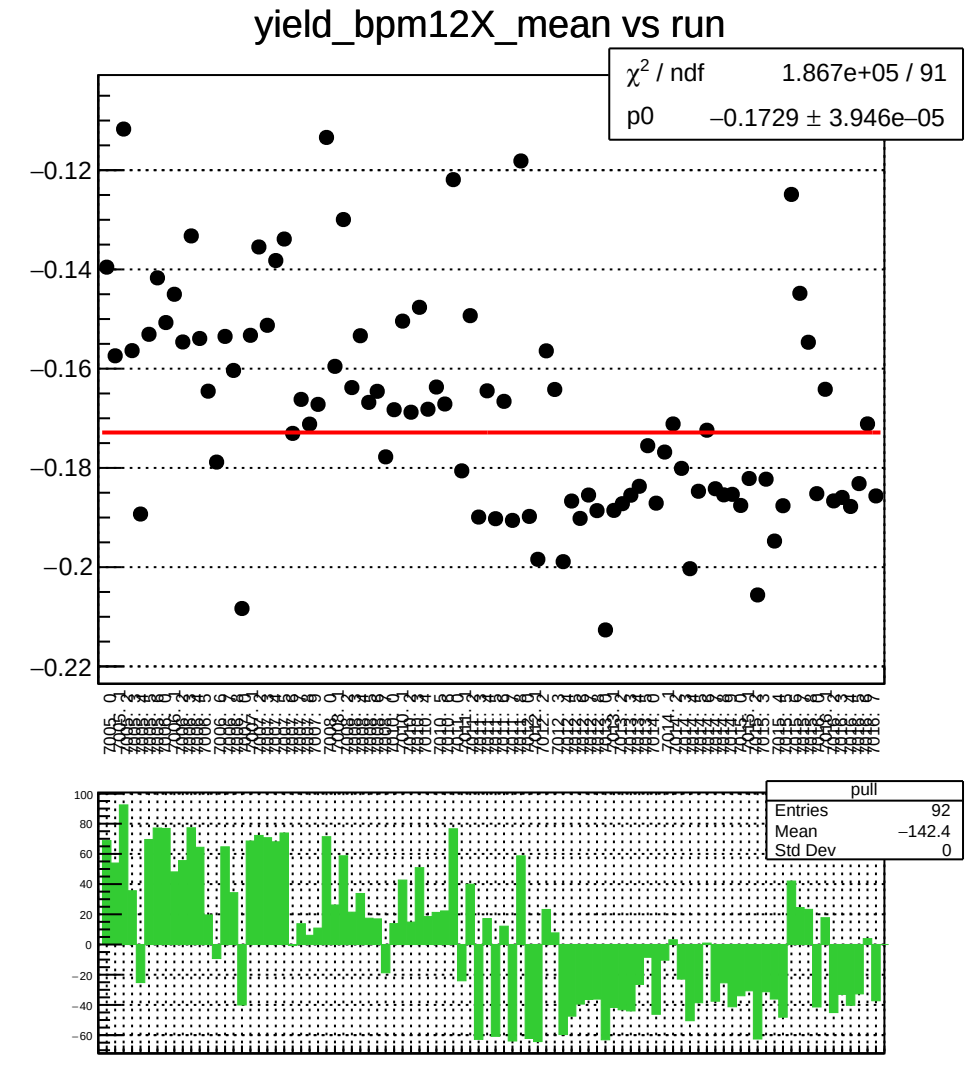

pull1D
Entries 92
Mean −0.6631
Std Dev 4.784
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

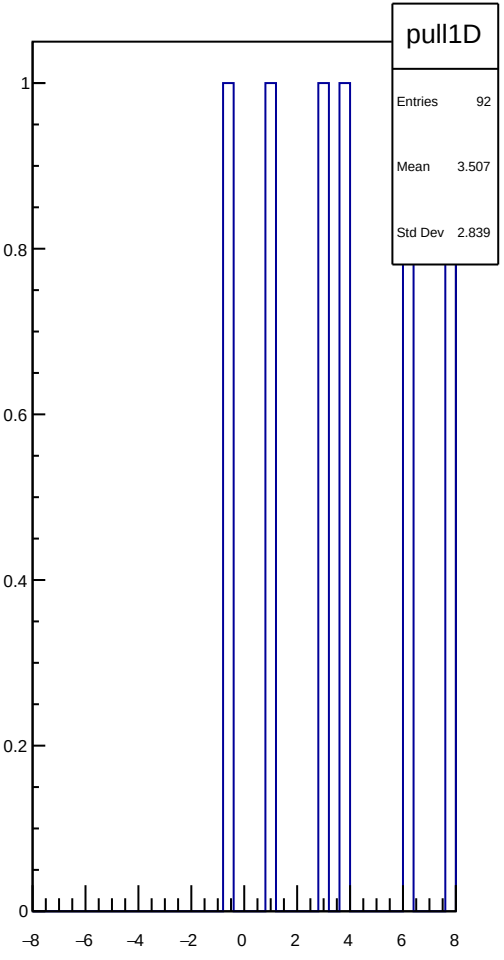

yield_bpm11X_rms vs run
χ² / ndf 1.517e+05 / 91
p0 0.01348 ± 1.078e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

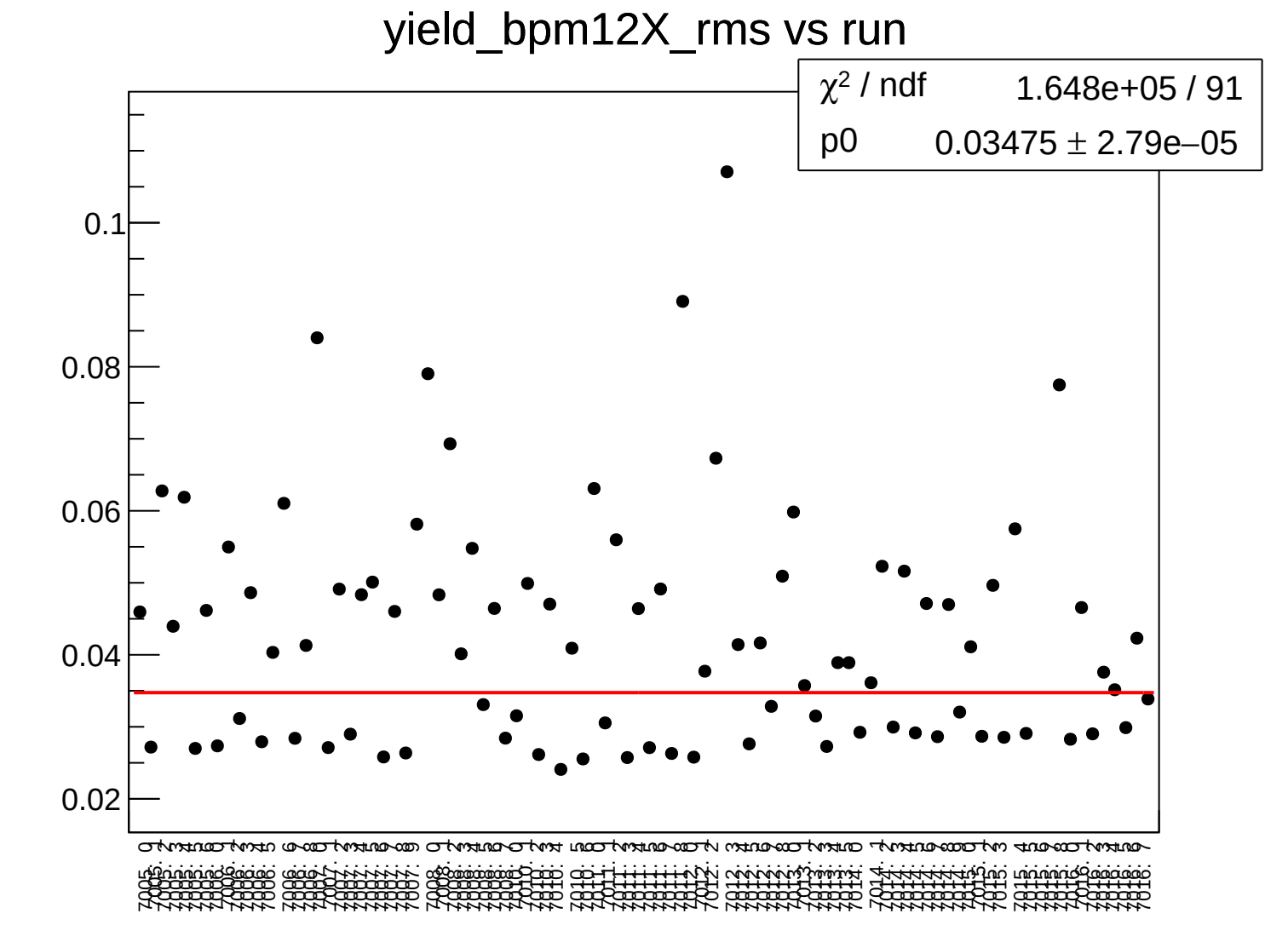

yield_bpm11Y_mean vs run
χ² / ndf 2.185e+05 / 91
p0 0.8202 ± 1.383e−05
0.86
0.85
0.84
0.83
0.82
0.81
0.8
pull
Entries 92
Mean 147.3
Std Dev 0
100
50
0
−50
−100

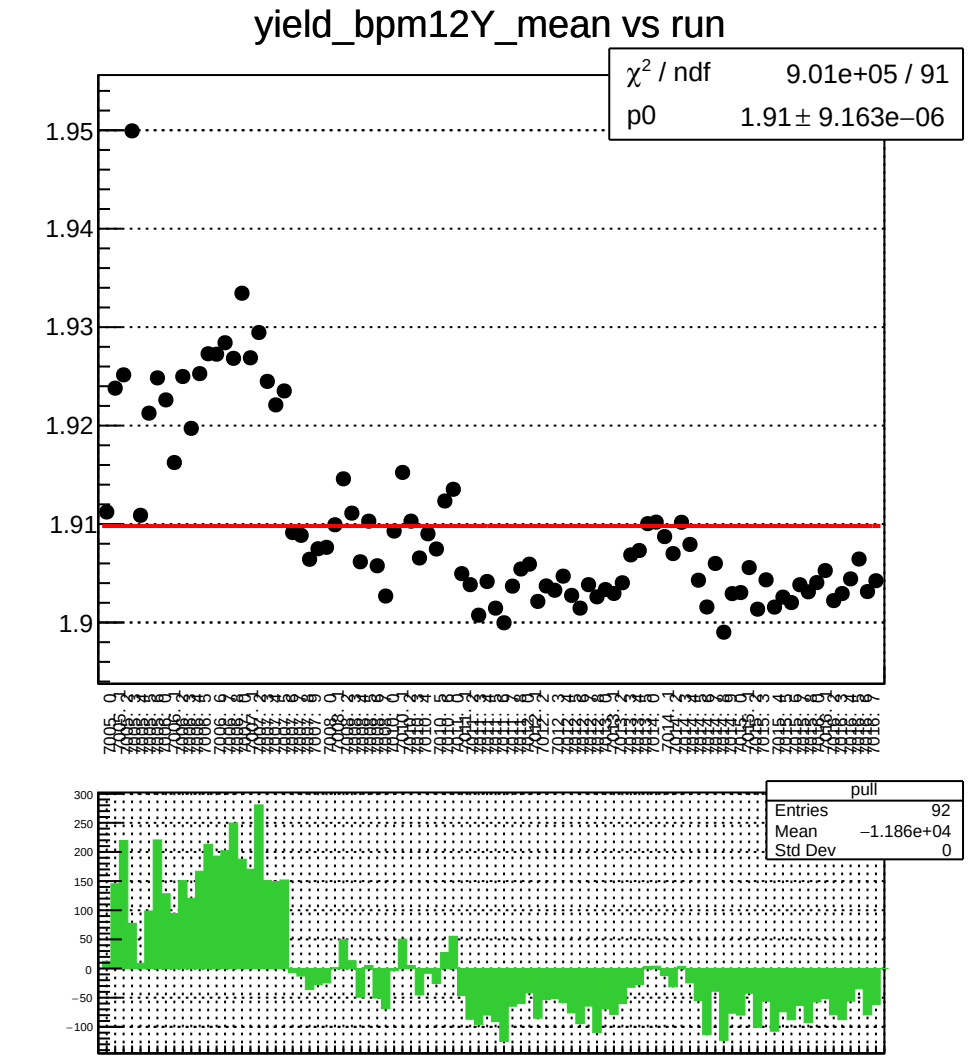

pull1D
Entries 92
Mean −0.3919
Std Dev 5.245
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

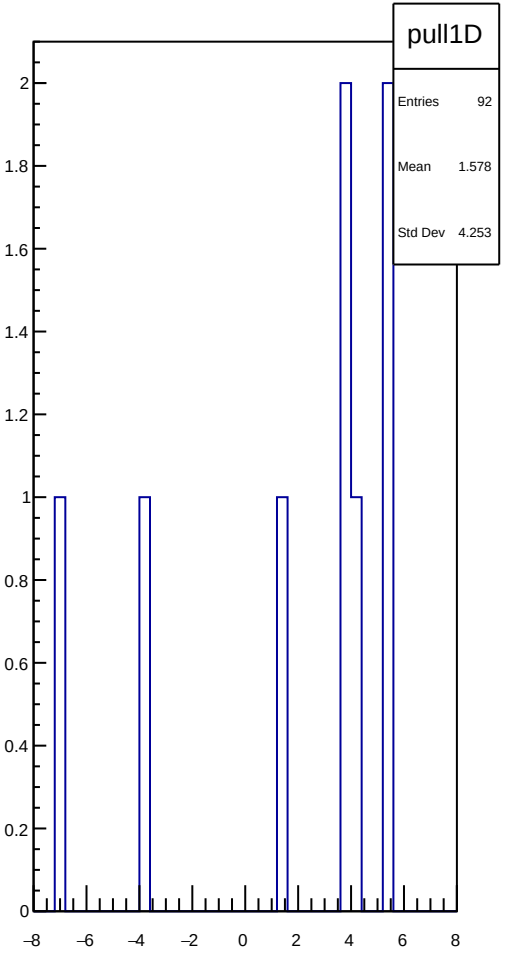

yield_bpm11Y_rms vs run
χ² / ndf 5.021e+04 / 91
p0 0.01262 ± 9.778e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

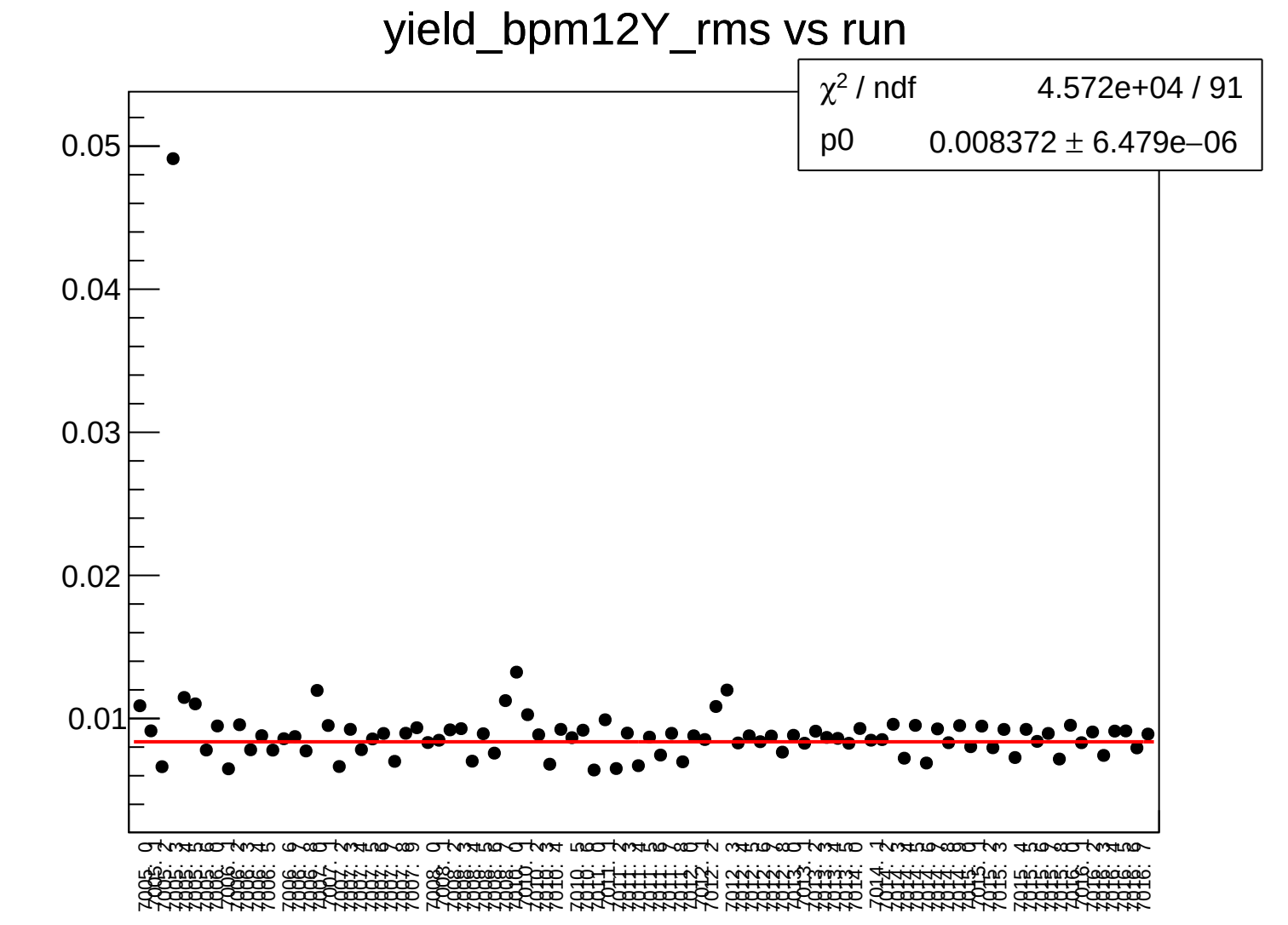

yield_bpm12X_mean vs run
χ² / ndf 1.867e+05 / 91
p0 −0.1729 ± 3.946e−05
−0.12
−0.14
−0.16
−0.18
−0.2
−0.22
pull
Entries 92
Mean −142.4
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

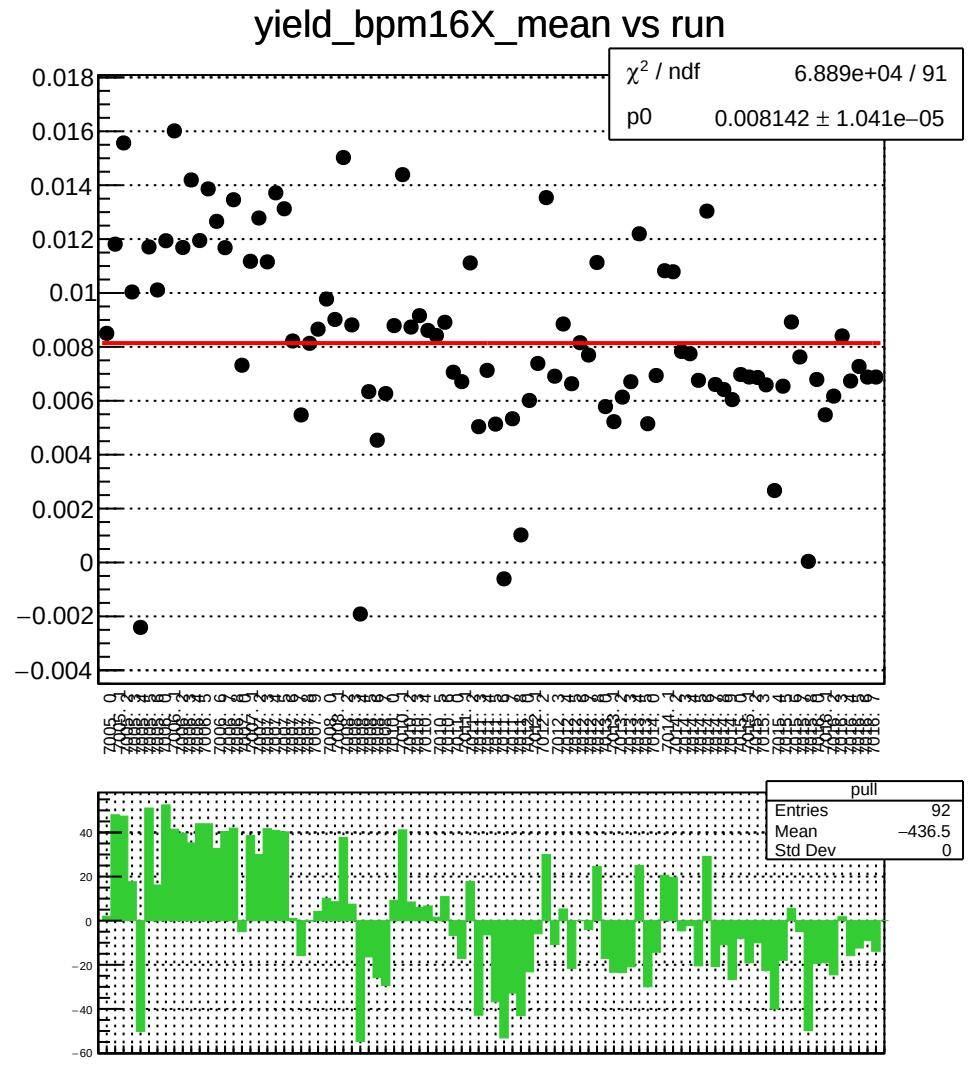

pull1D
Entries 92
Mean 3.507
Std Dev 2.839
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

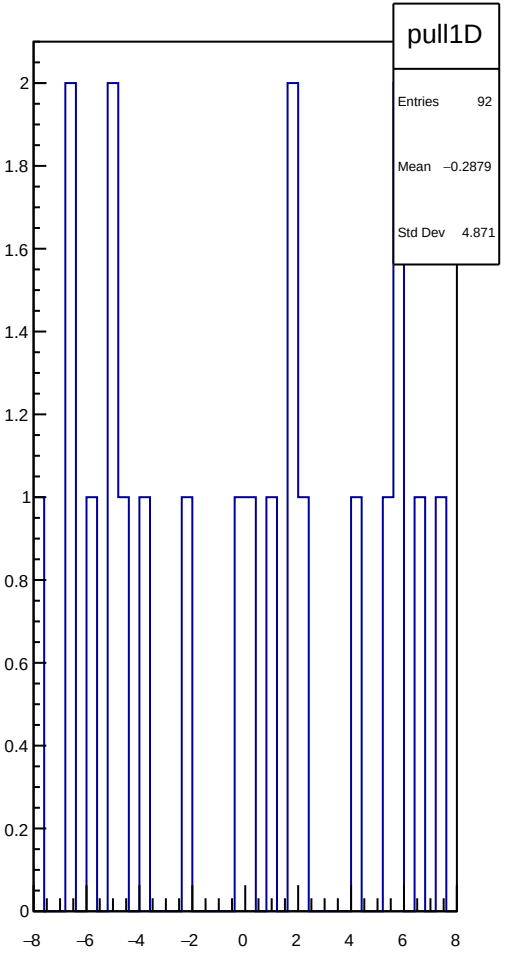

yield_bpm12X_rms vs run
χ² / ndf 1.648e+05 / 91
p0 0.03475 ± 2.79e−05
0.1
0.08
0.06
0.04
0.02

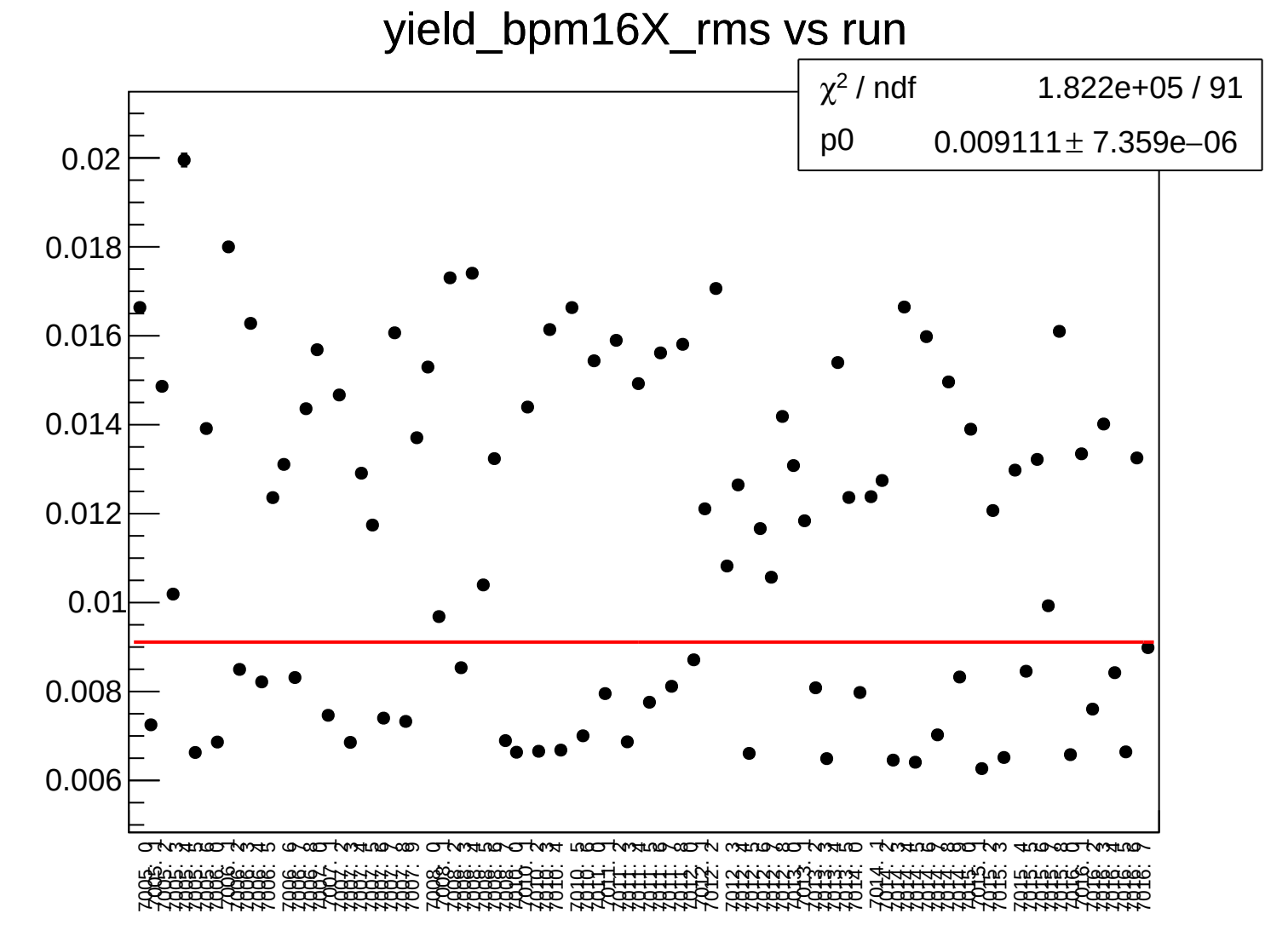

yield_bpm12Y_mean vs run
χ² / ndf 9.01e+05 / 91
p0 1.91 ± 9.163e−06
1.95
1.94
1.93
1.92
1.91
1.9
pull
Entries 92
Mean −1.186e+04
Std Dev 0
300
250
200
150
100
50
0
−50
−100

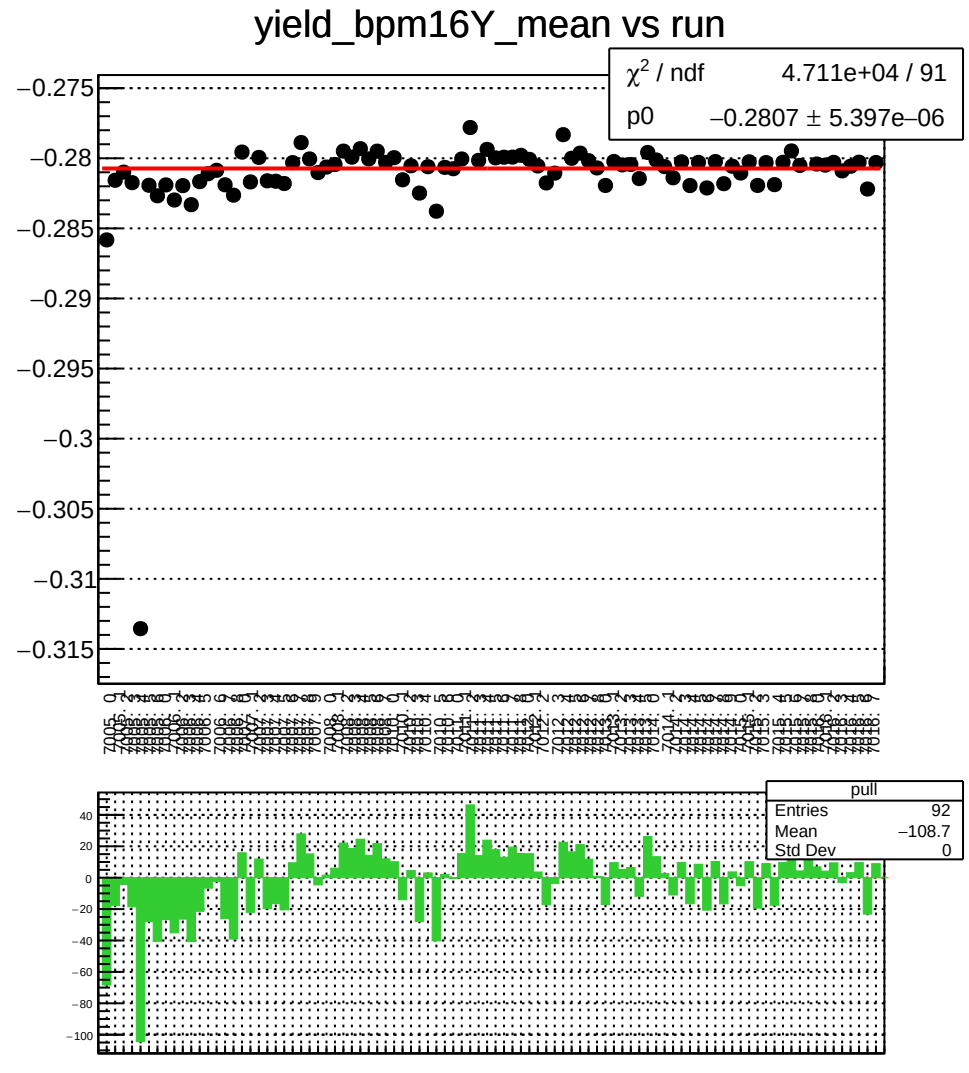

pull1D
Entries 92
Mean 1.578
Std Dev 4.253
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

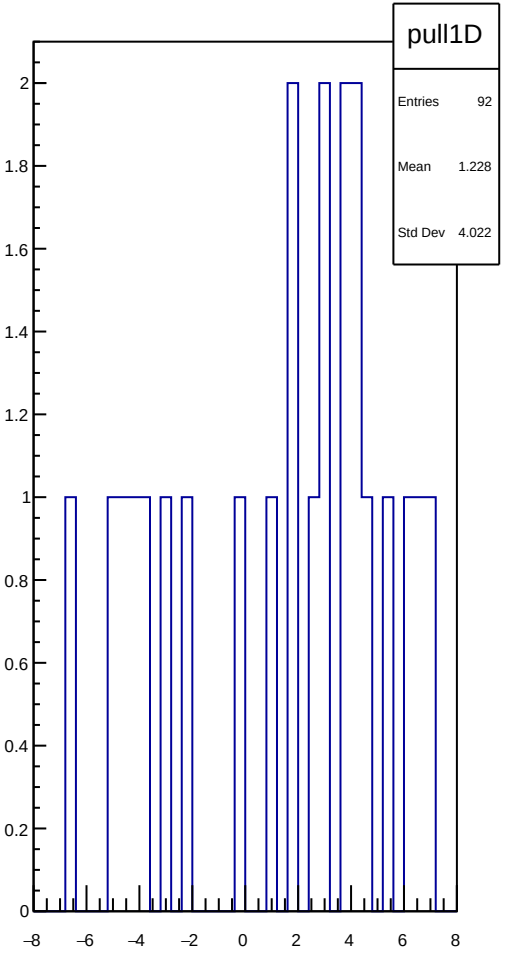

yield_bpm12Y_rms vs run
χ² / ndf 4.572e+04 / 91
p0 0.008372 ± 6.479e−06
0.05
0.04
0.03
0.02
0.01

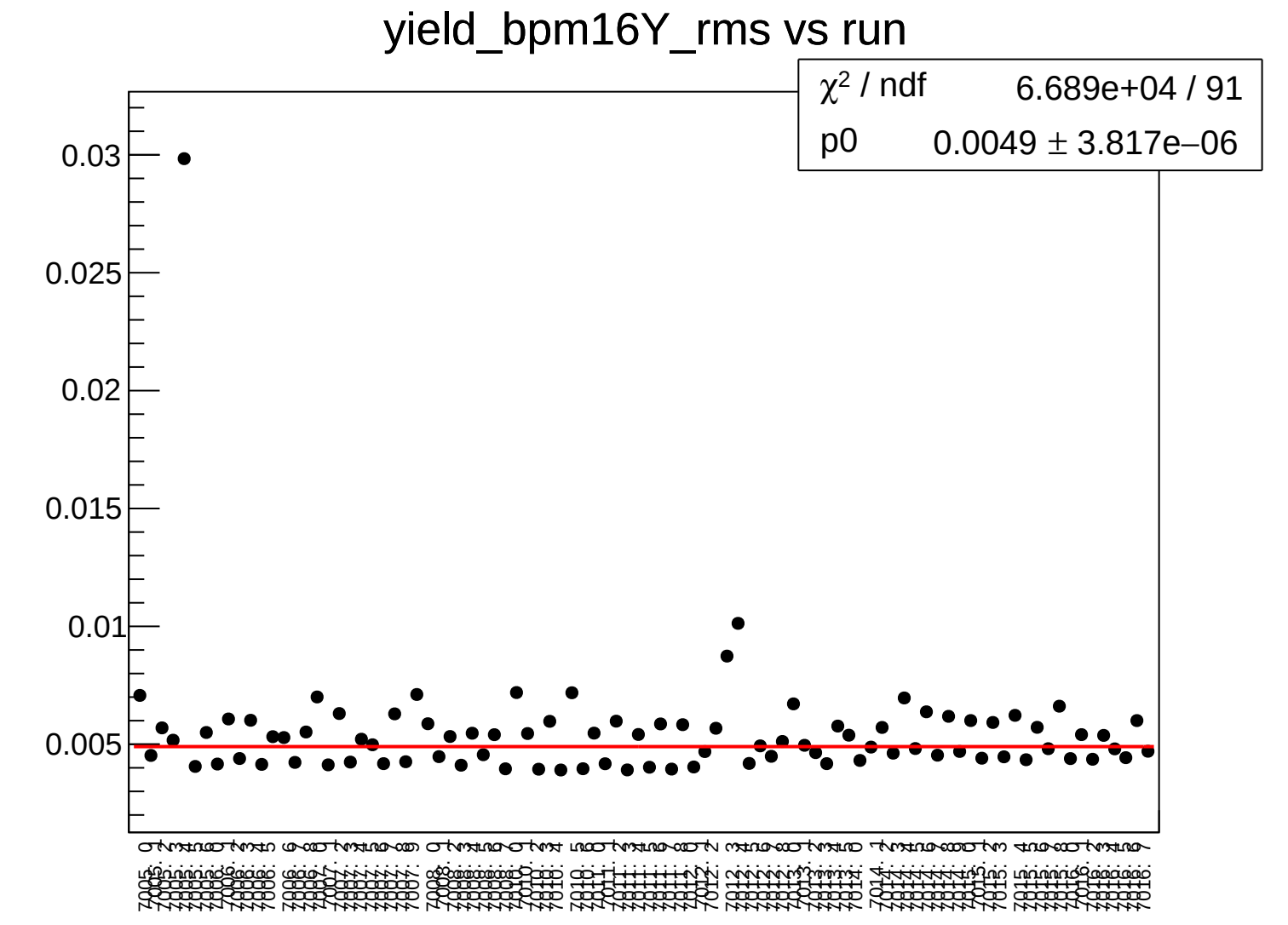

yield_bpm16X_mean vs run
χ² / ndf 6.889e+04 / 91
p0 0.008142 ± 1.041e−05
pull
Entries 92
Mean −436.5
Std Dev 0

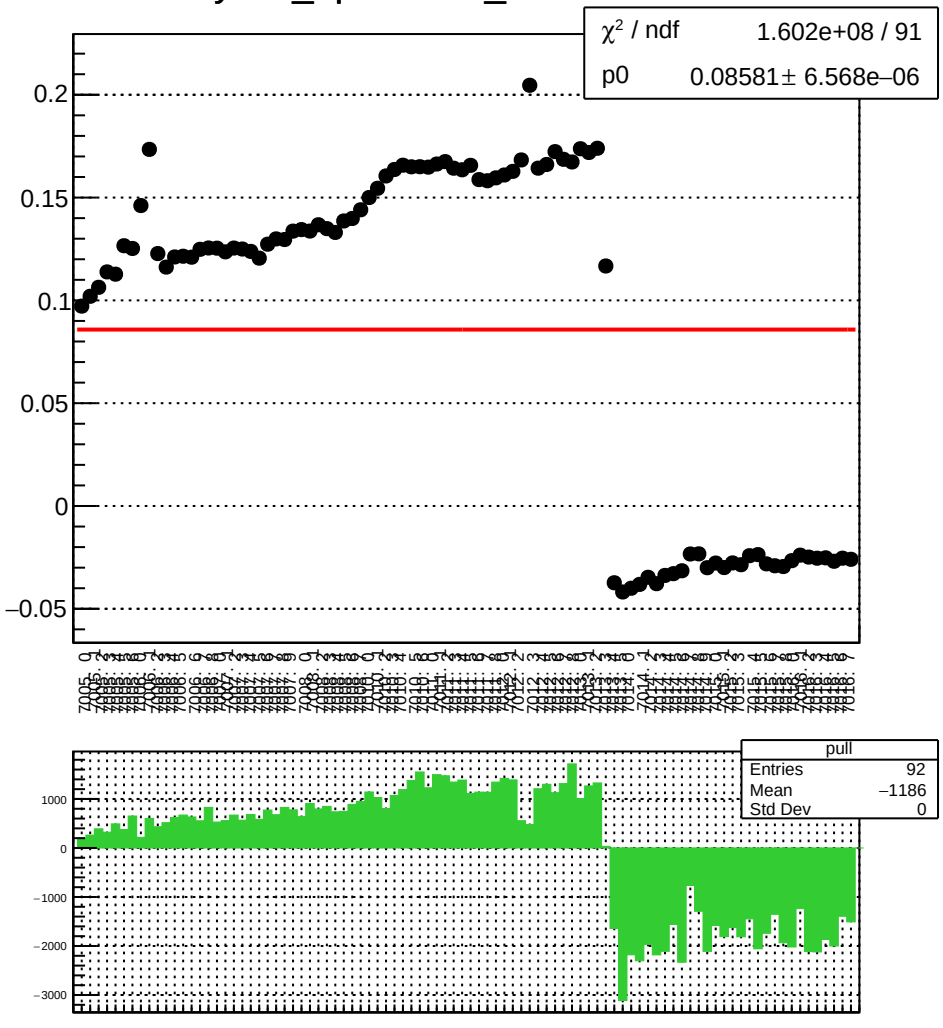

pull1D
Entries 92
Mean −0.2879
Std Dev 4.871

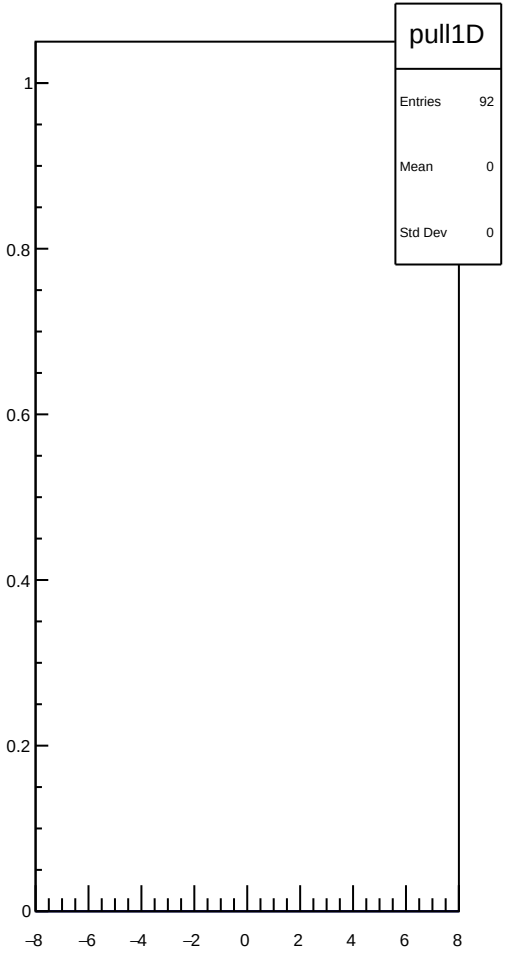

yield_bpm16X_rms vs run
χ² / ndf 1.822e+05 / 91
p0 0.009111 ± 7.359e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

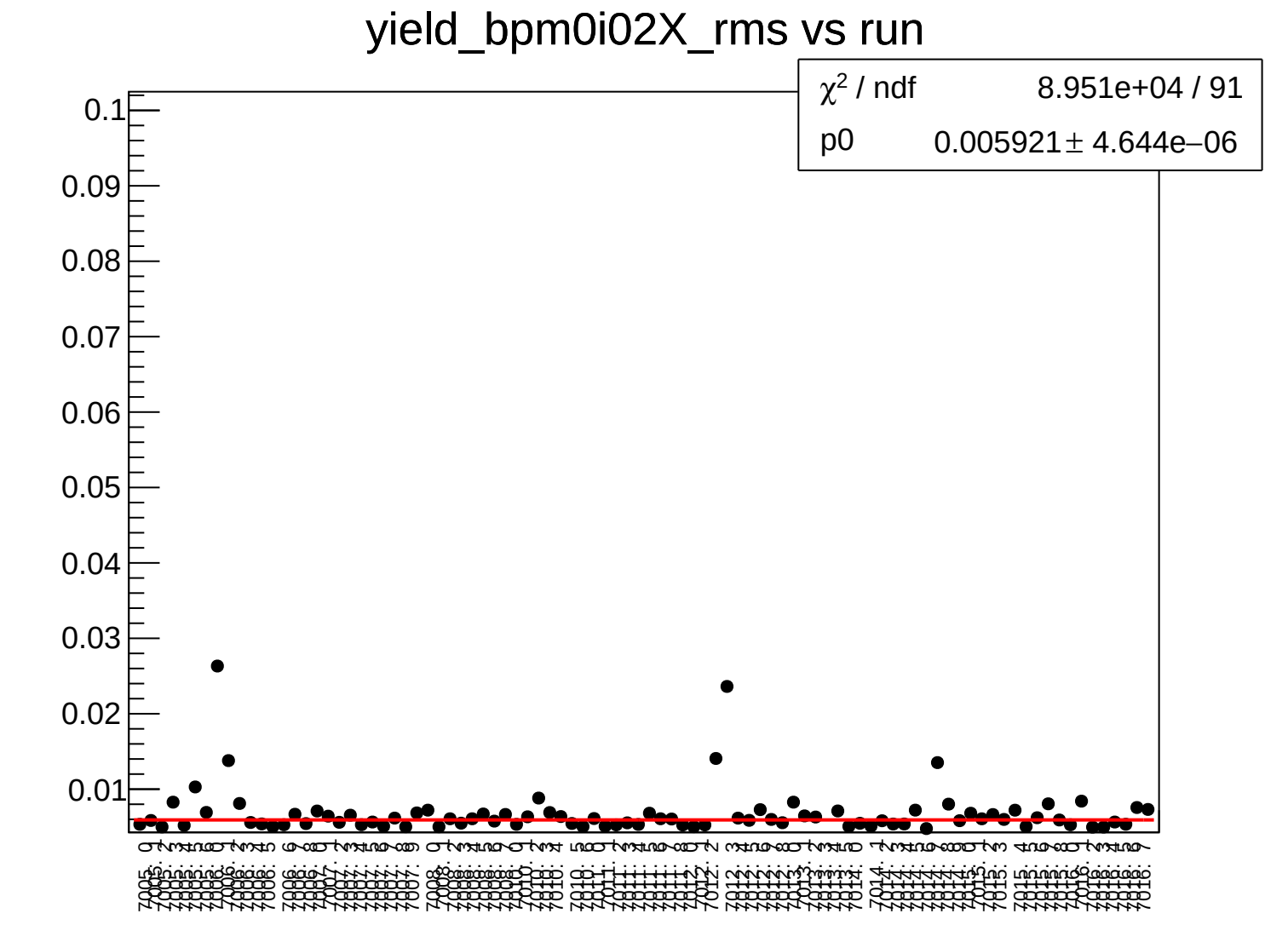

yield_bpm16Y_mean vs run
χ² / ndf 4.711e+04 / 91
p0 −0.2807 ± 5.397e−06
−0.275
−0.28
−0.285
−0.29
−0.295
−0.3
−0.305
−0.31
−0.315
pull
Entries 92
Mean −108.7
Std Dev 0
40
20
0
−20
−40
−60
−80
−100

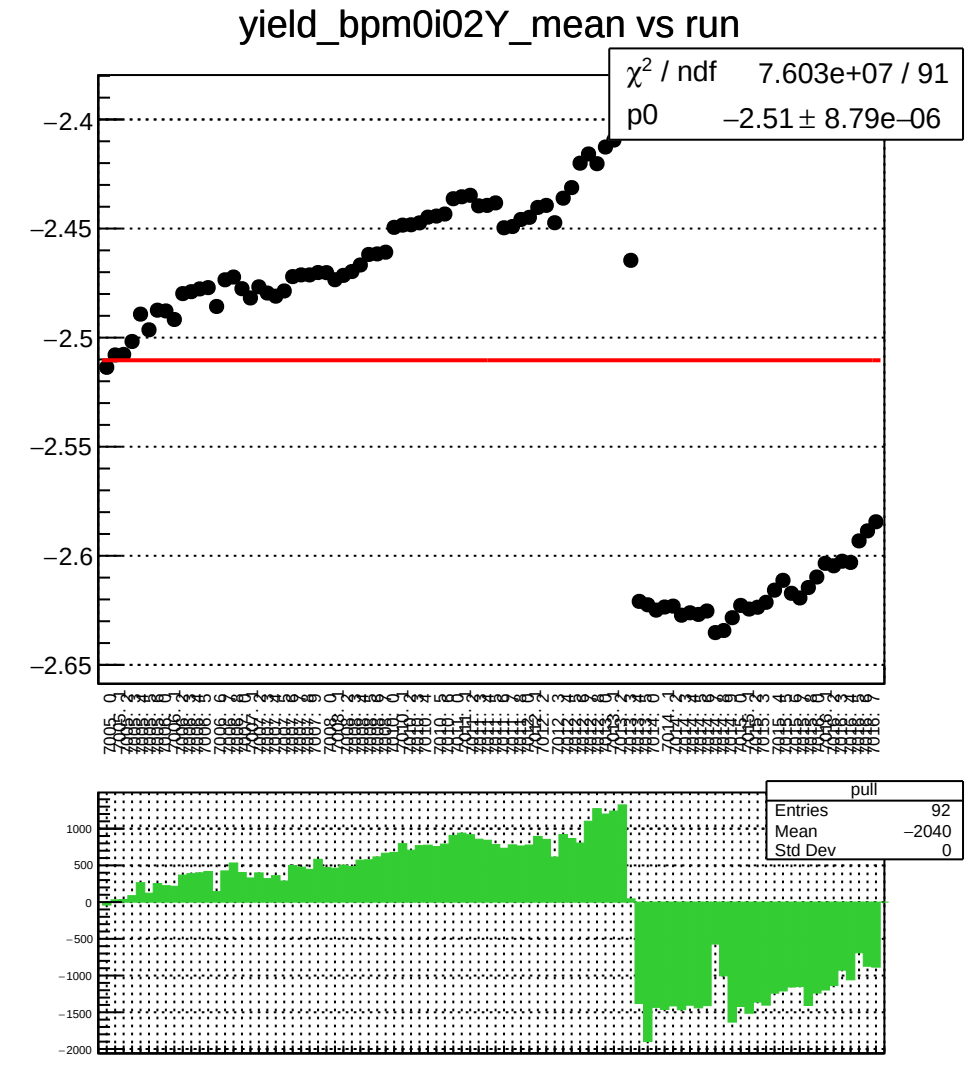

pull1D
Entries 92
Mean 1.228
Std Dev 4.022
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

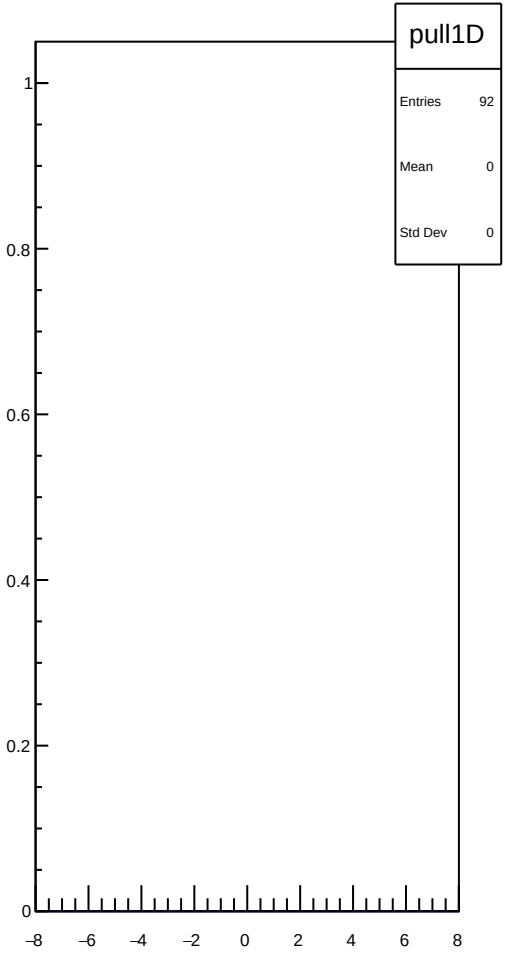

yield_bpm16Y_rms vs run
χ² / ndf 6.689e+04 / 91
p0 0.0049 ± 3.817e−06
0.03
0.025
0.02
0.015
0.01
0.005

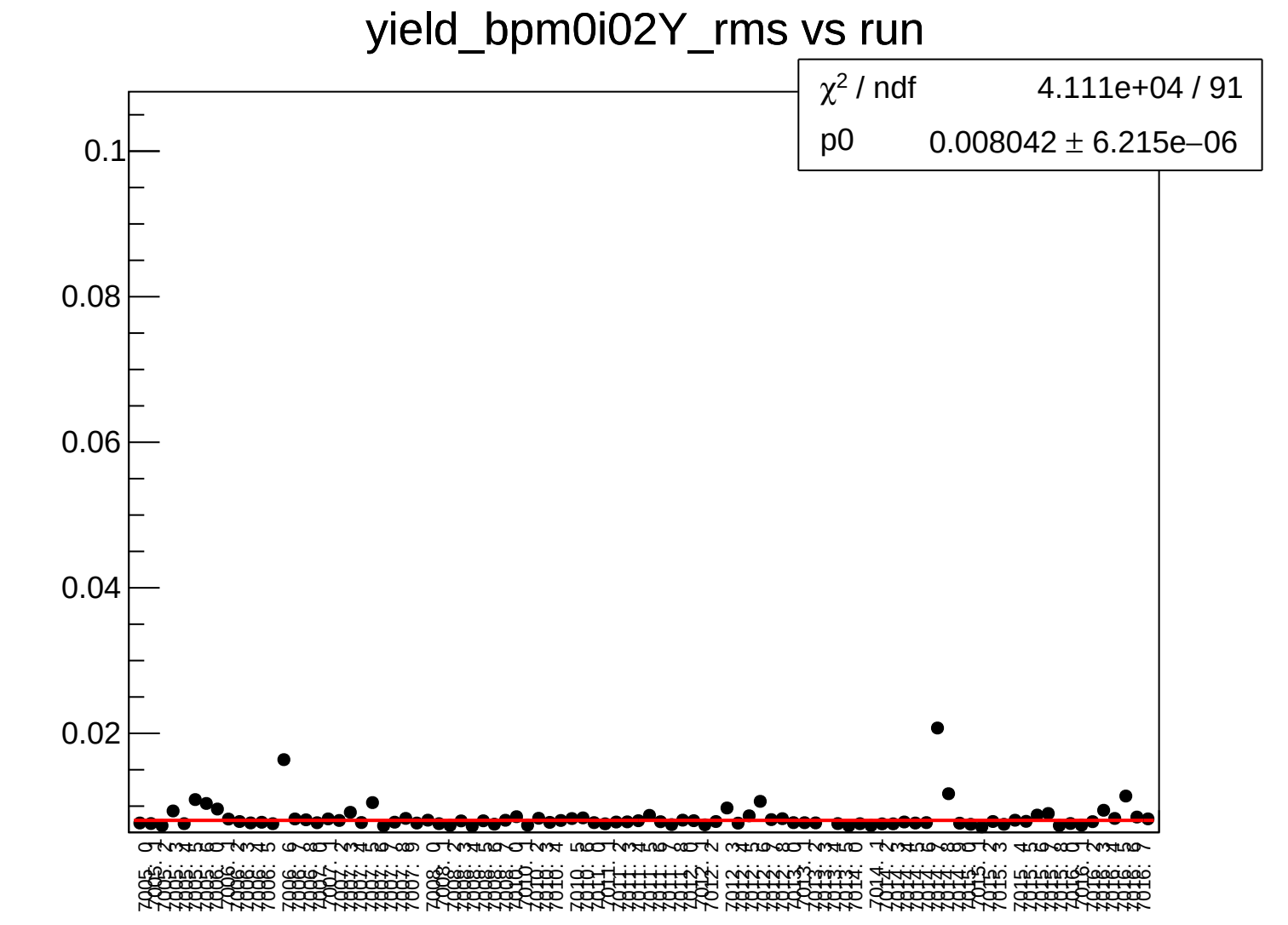

yield_bpm0i02X_mean vs run
χ² / ndf 1.602e+08 / 91
p0 0.08581± 6.568e–06
0.2
0.15
0.1
0.05
0
–0.05
pull
Entries 92
Mean –1186
Std Dev 0
1000
0
–1000
–2000
–3000

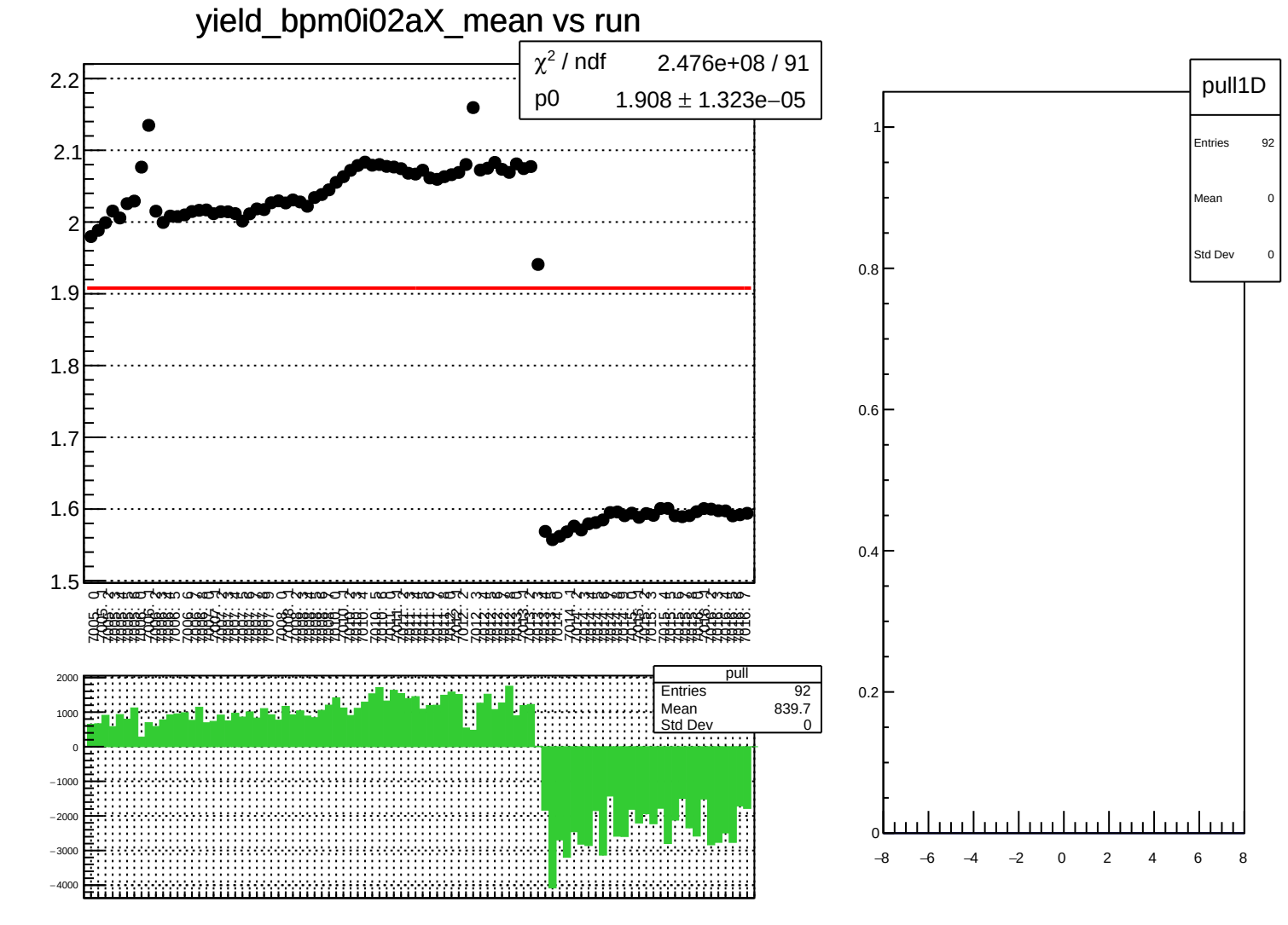

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

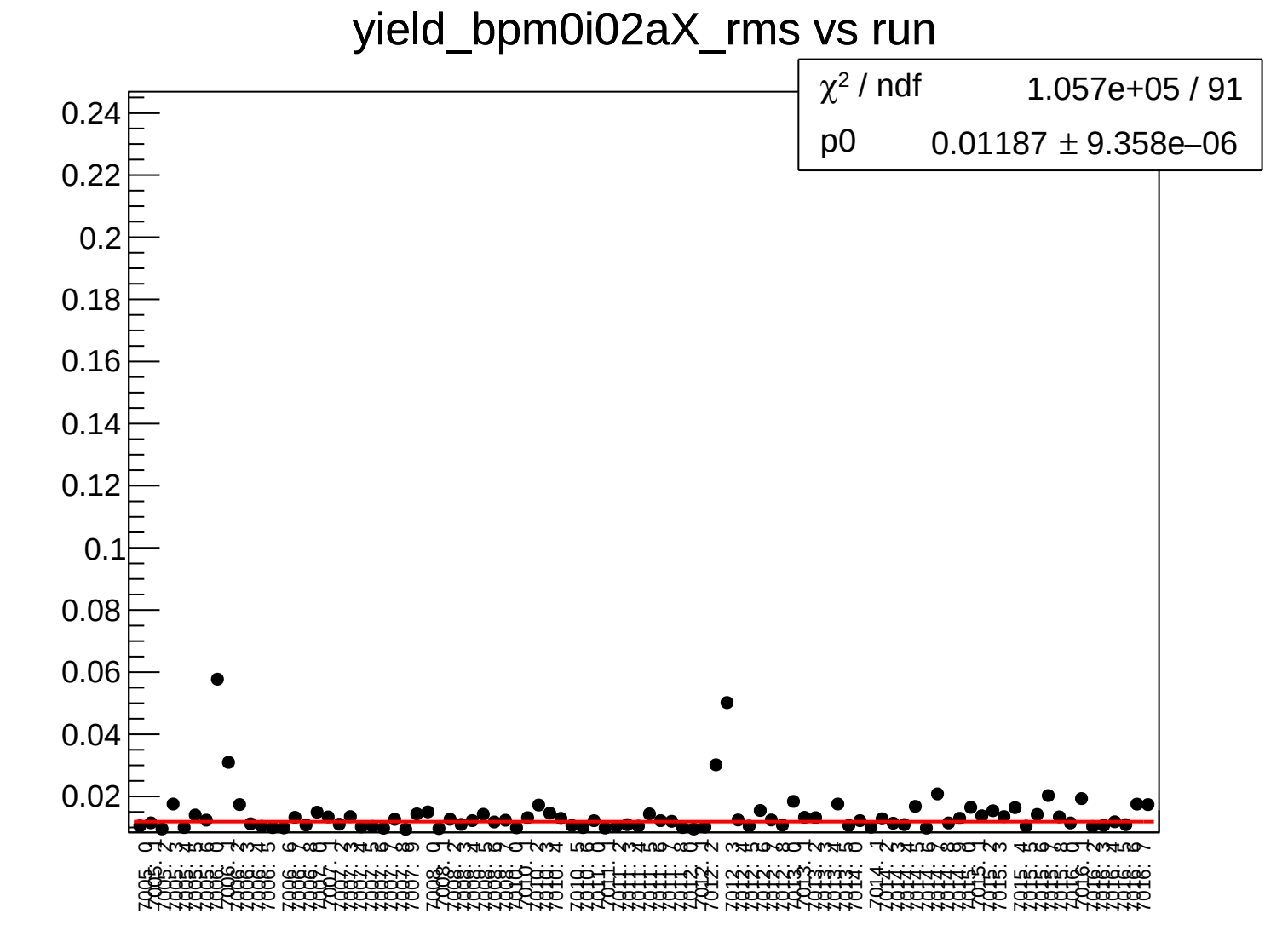

yield_bpm0i02X_rms vs run
χ² / ndf 8.951e+04 / 91
p0 0.005921 ± 4.644e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

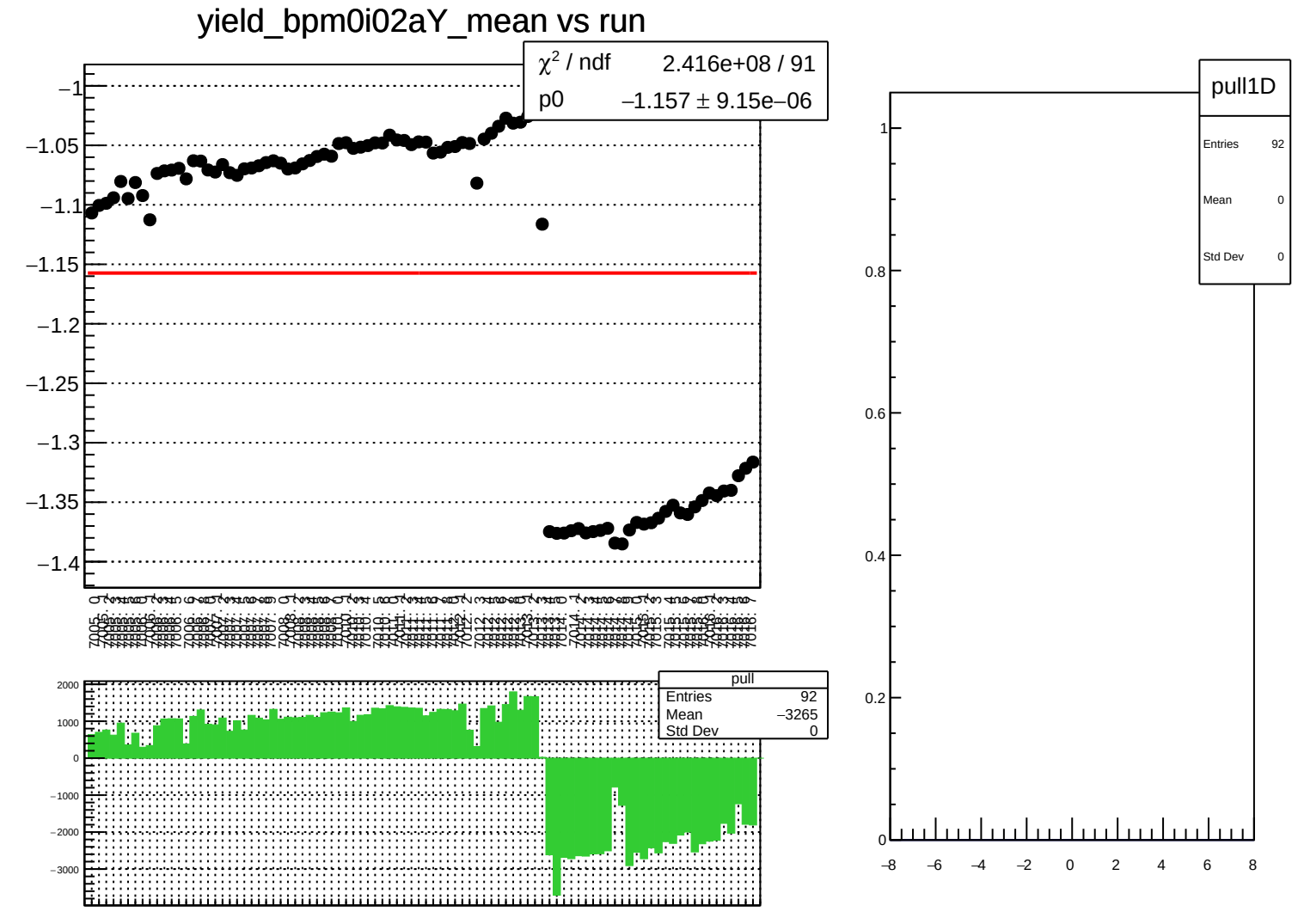

yield_bpm0i02Y_mean vs run
χ² / ndf 7.603e+07 / 91
p0 −2.51 ± 8.79e−06
−2.4
−2.45
−2.5
−2.55
−2.6
−2.65
pull
Entries 92
Mean −2040
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

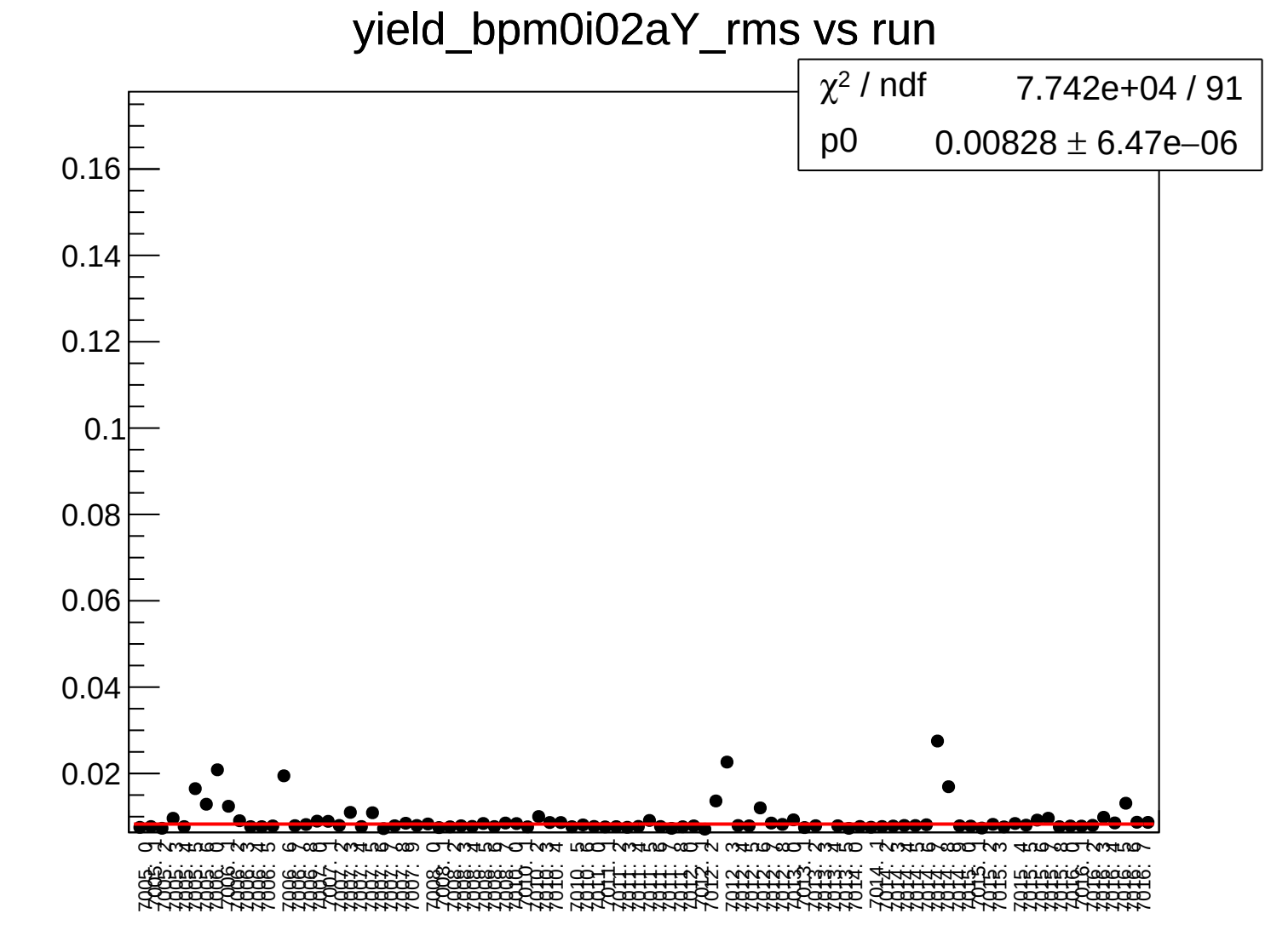

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

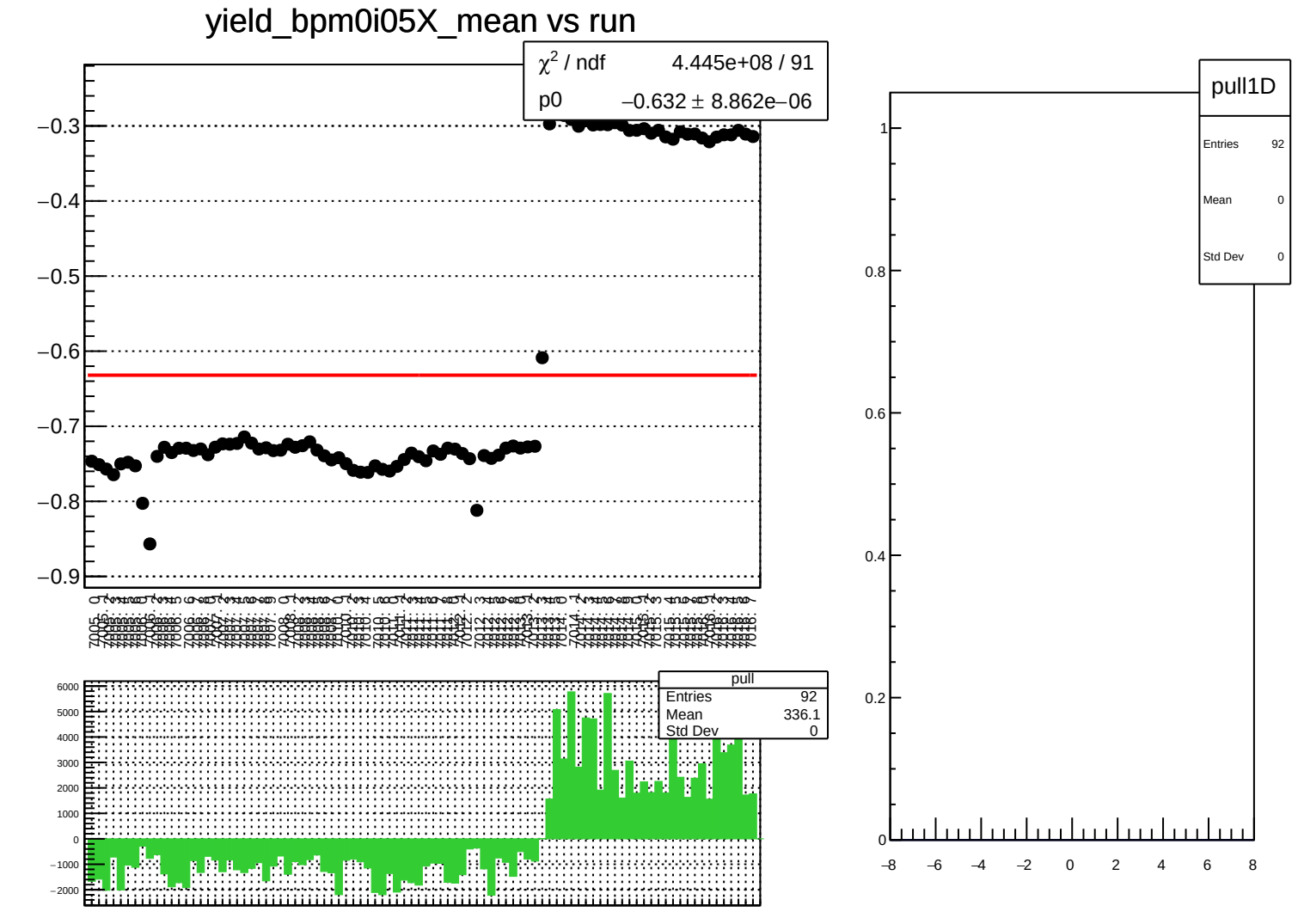

yield_bpm0i02Y_rms vs run
χ² / ndf 4.111e+04 / 91
p0 0.008042 ± 6.215e−06
0.1
0.08
0.06
0.04
0.02

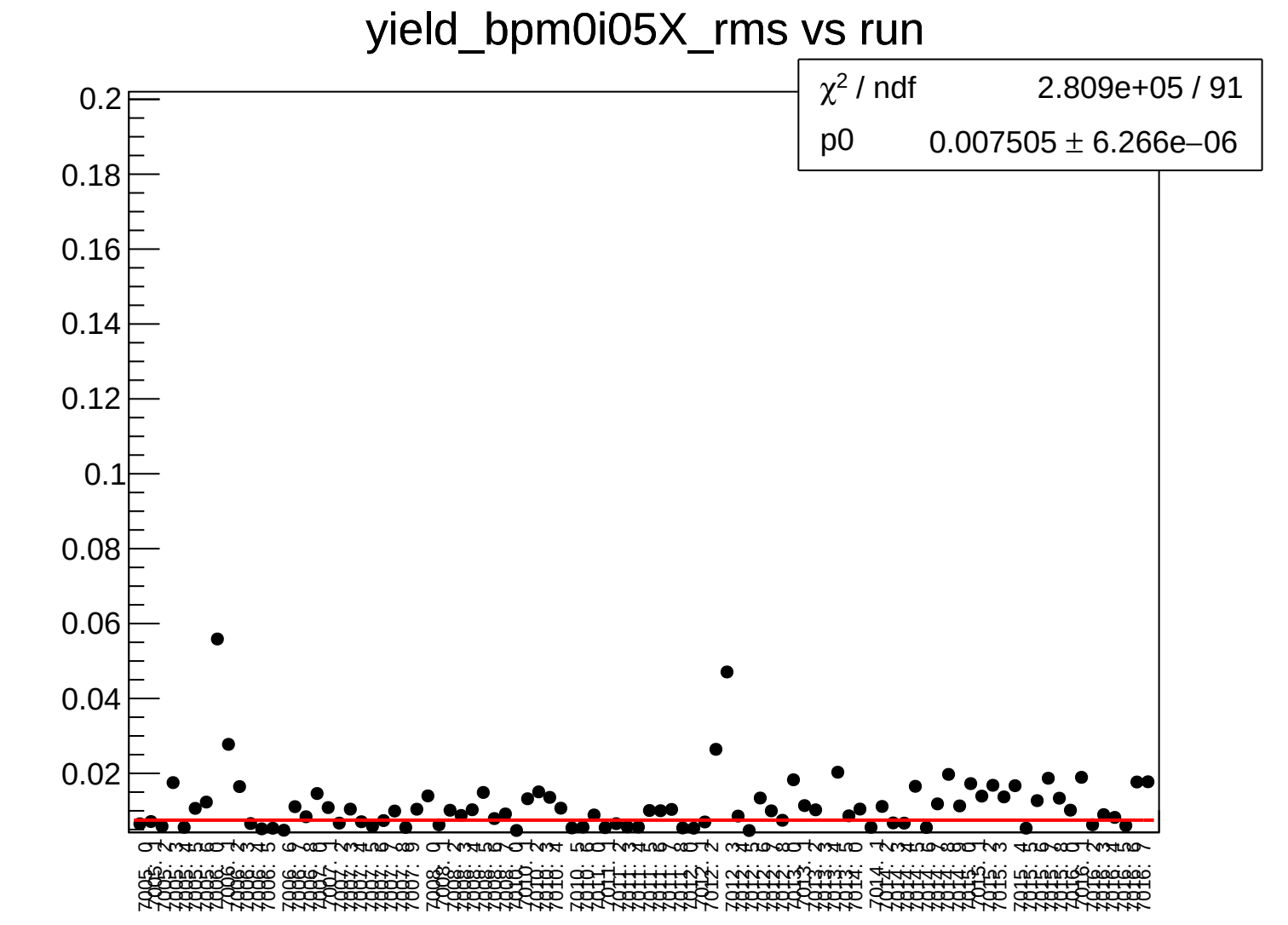

yield_bpm0i02aX_mean vs run
χ² / ndf 2.476e+08 / 91
p0 1.908 ± 1.323e−05
pull
Entries 92
Mean 839.7
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0

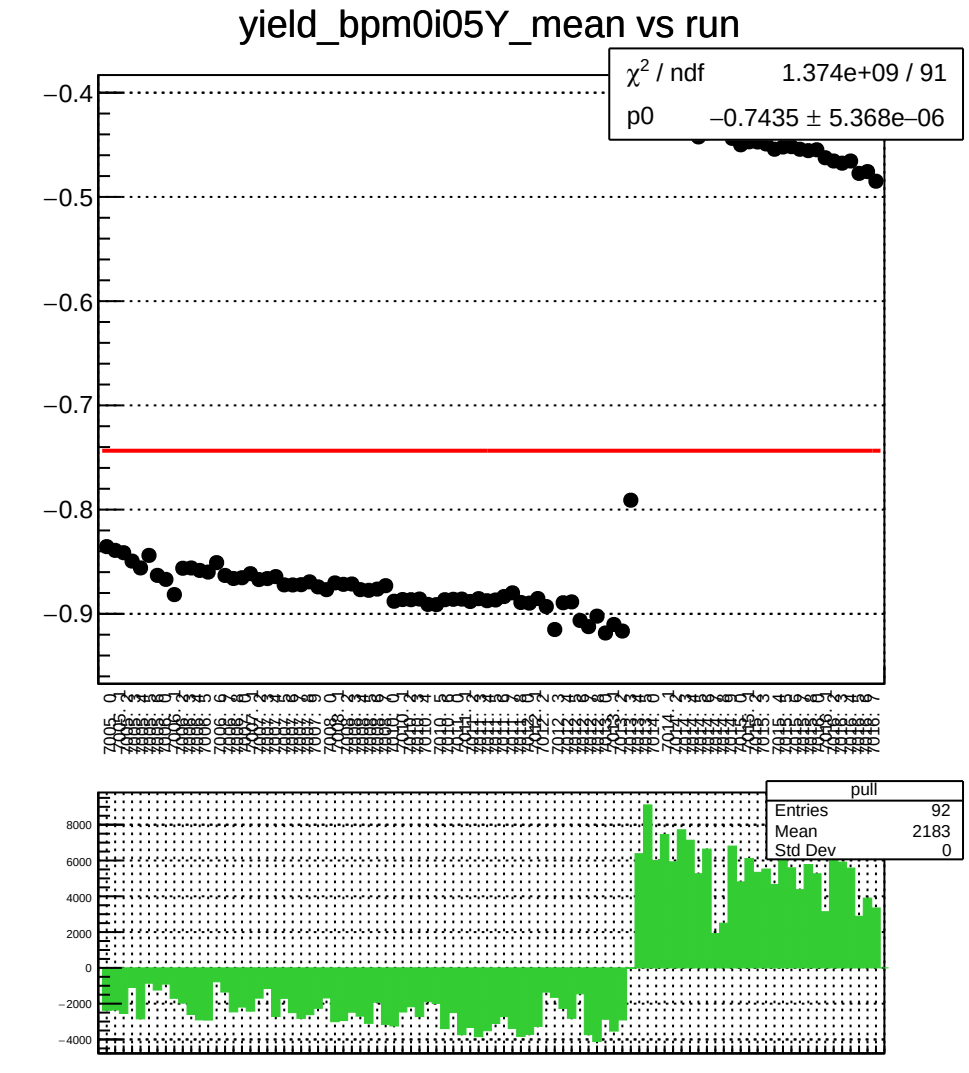

yield_bpm0i02aX_rms vs run
χ² / ndf 1.057e+05 / 91
p0 0.01187 ± 9.358e–06
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

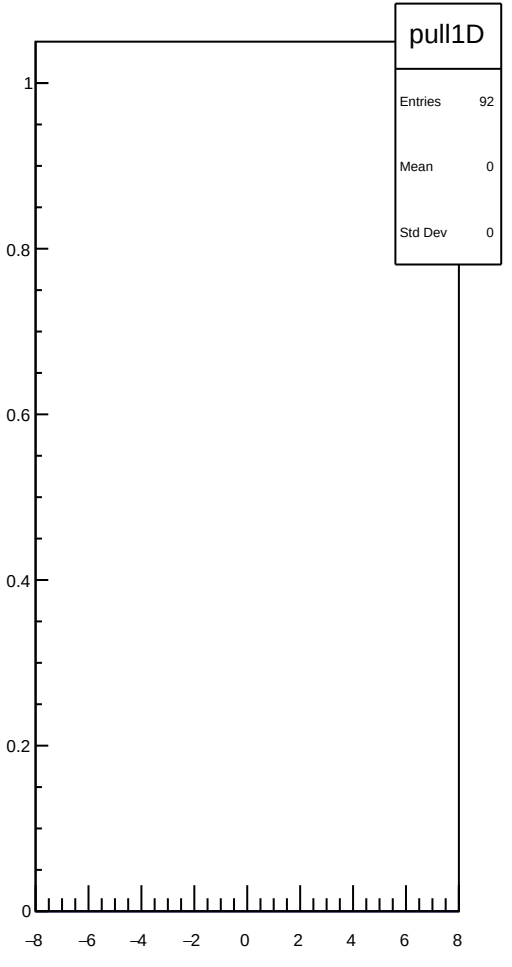

yield_bpm0i02aY_mean vs run
χ² / ndf 2.416e+08 / 91
p0 −1.157 ± 9.15e−06
−1
−1.05
−1.1
−1.15
−1.2
−1.25
−1.3
−1.35
−1.4
pull
Entries 92
Mean −3265
Std Dev 0
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

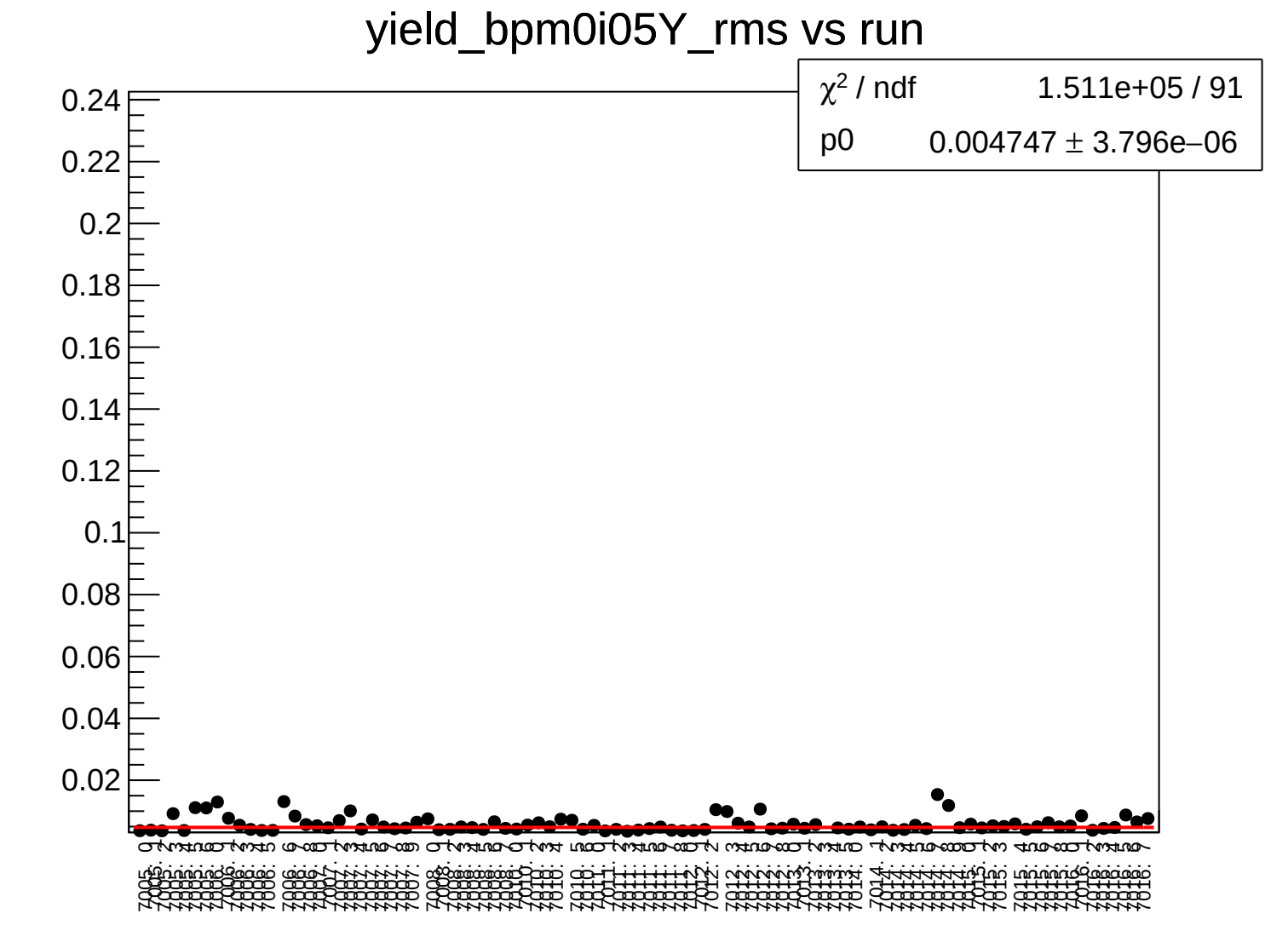

yield_bpm0i02aY_rms vs run
χ² / ndf 7.742e+04 / 91
p0 0.00828 ± 6.47e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

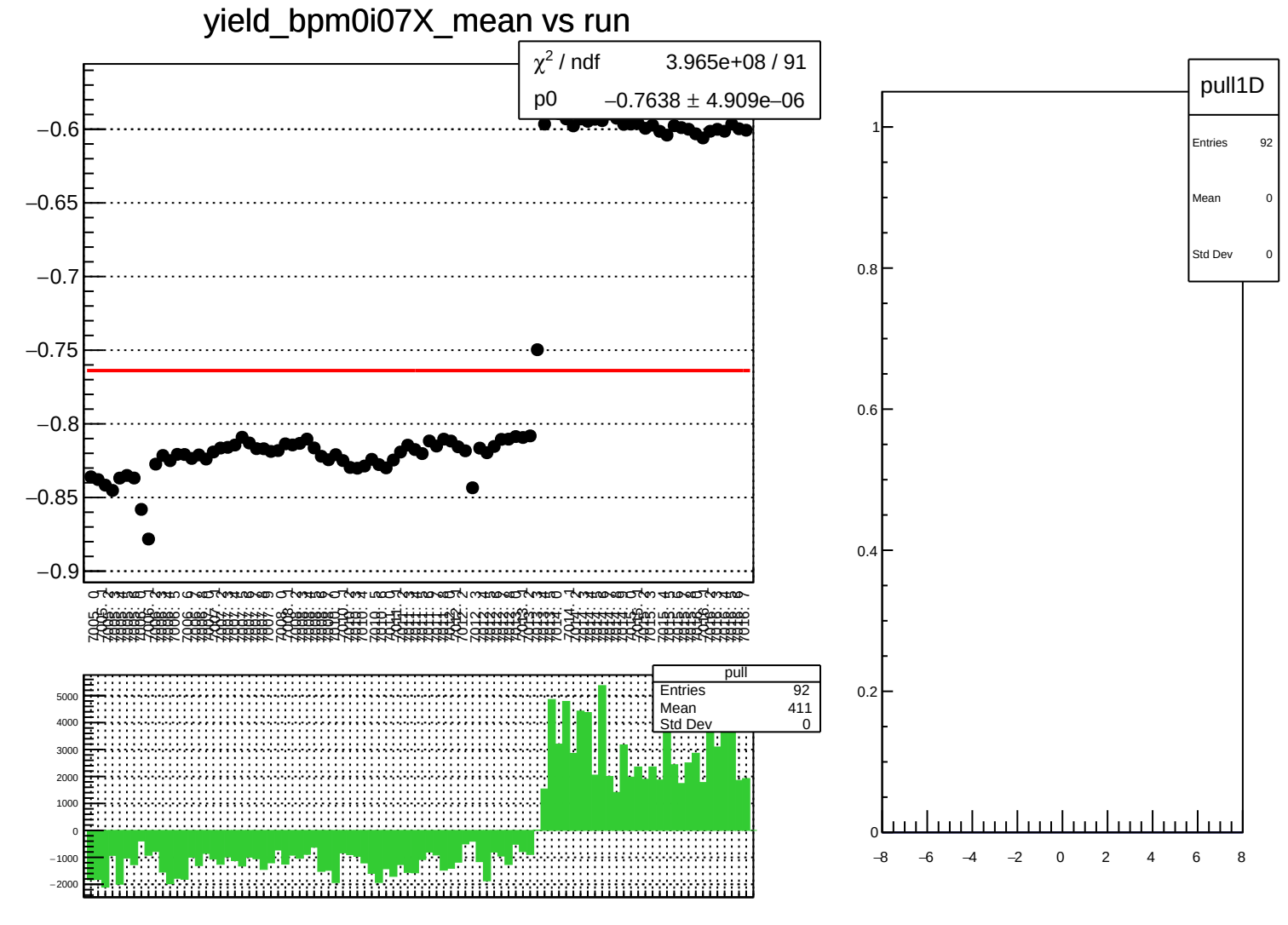

yield_bpm0i05X_mean vs run
χ² / ndf 4.445e+08 / 91
p0 −0.632 ± 8.862e−06
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 92
Mean 336.1
Std Dev 0
6000
5000
4000
3000
2000
1000
0
−1000
−2000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

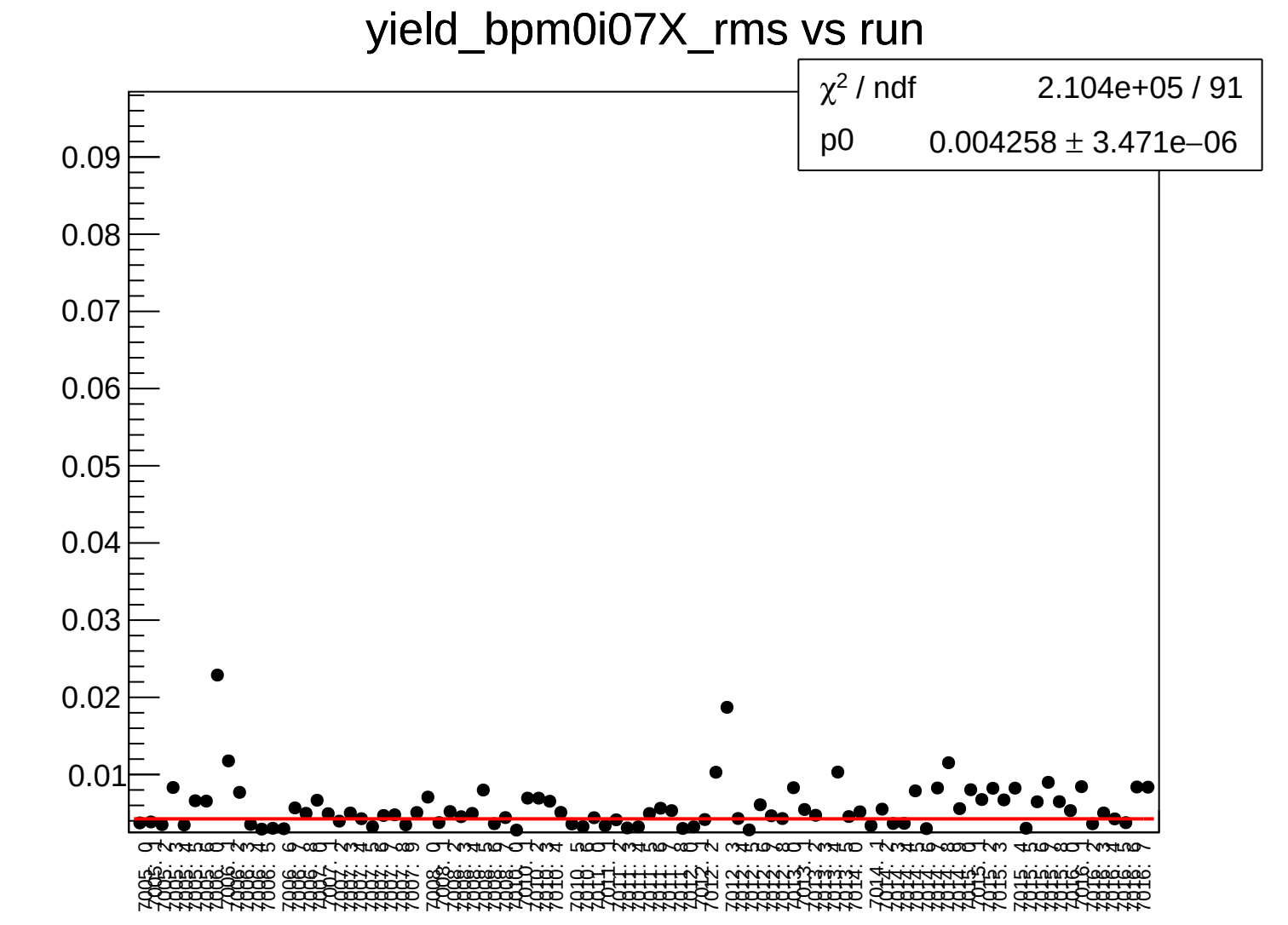

yield_bpm0i05X_rms vs run
χ² / ndf 2.809e+05 / 91
p0 0.007505 ± 6.266e−06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

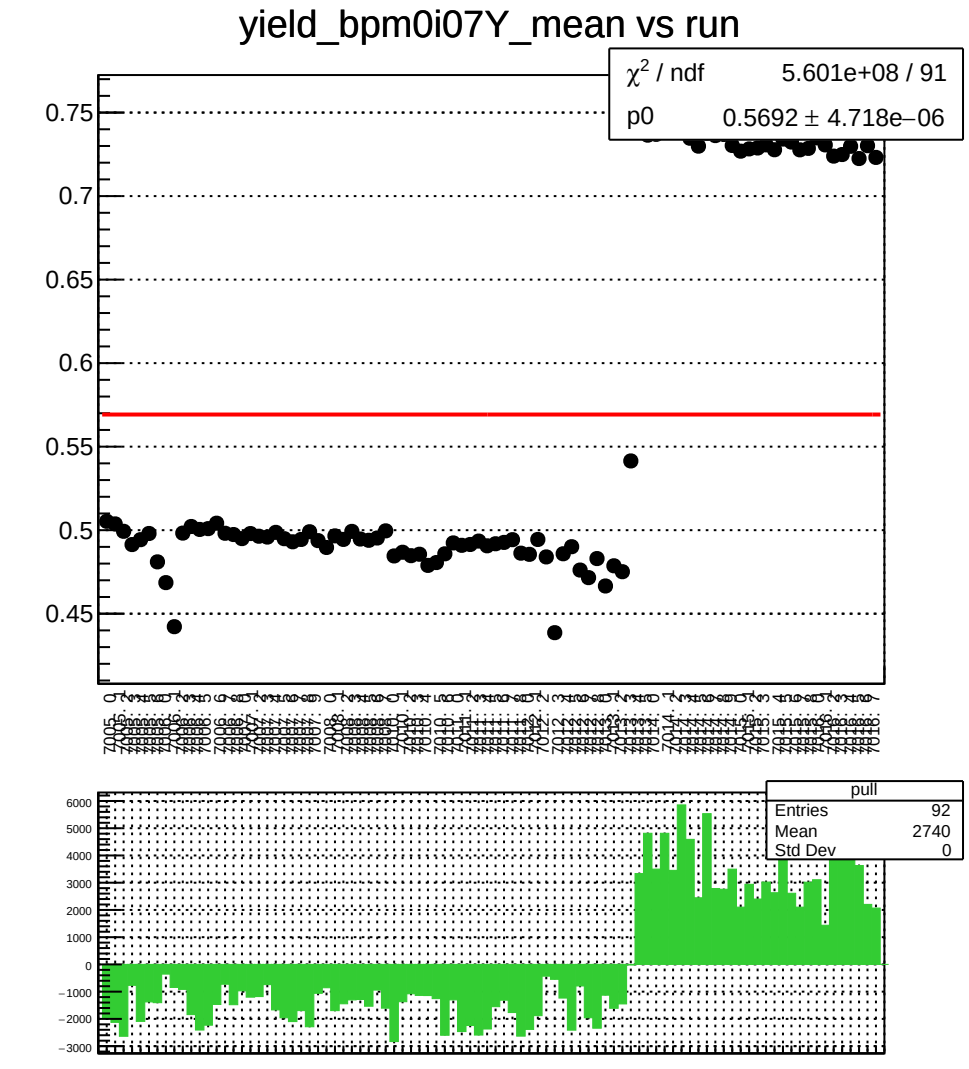

yield_bpm0i05Y_mean vs run
χ² / ndf 1.374e+09 / 91
p0 −0.7435 ± 5.368e−06
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 92
Mean 2183
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000

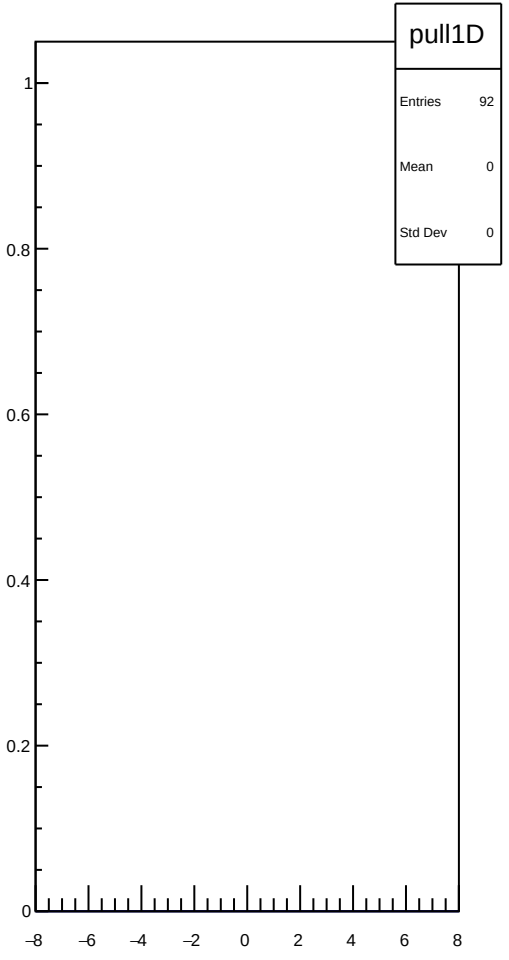

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

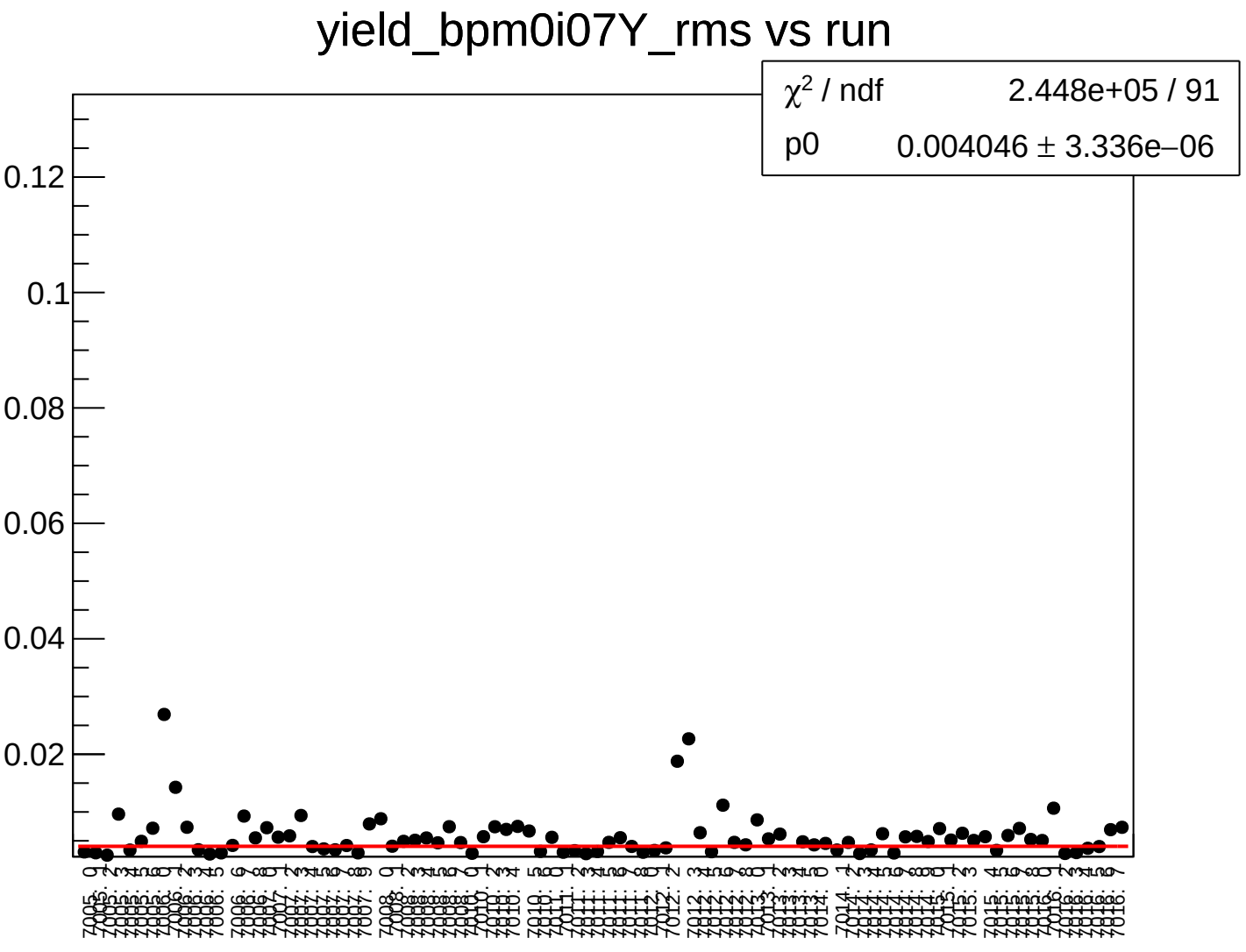

yield_bpm0i05Y_rms vs run
χ² / ndf 1.511e+05 / 91
p0 0.004747 ± 3.796e−06
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

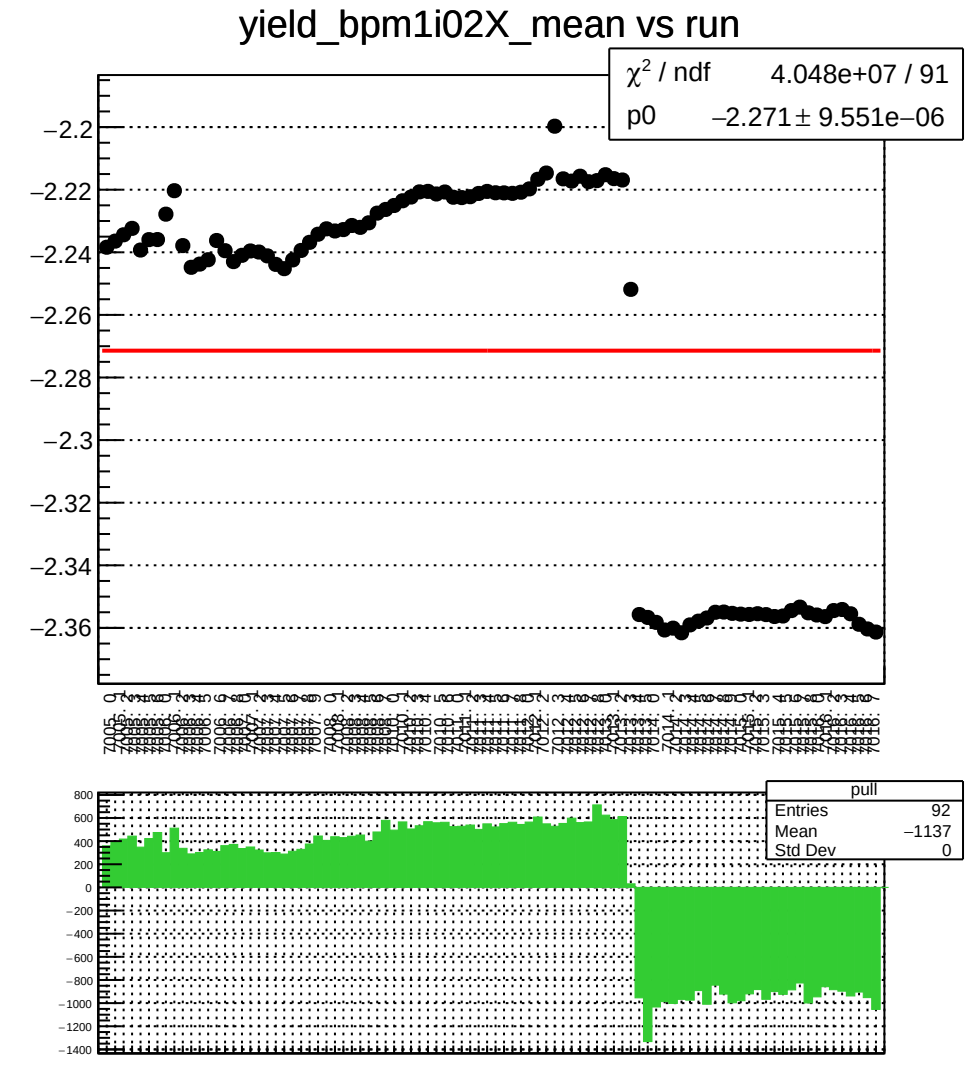

yield_bpm0i07X_mean vs run
χ² / ndf 3.965e+08 / 91
p0 −0.7638 ± 4.909e−06
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 92
Mean 411
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
−2000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

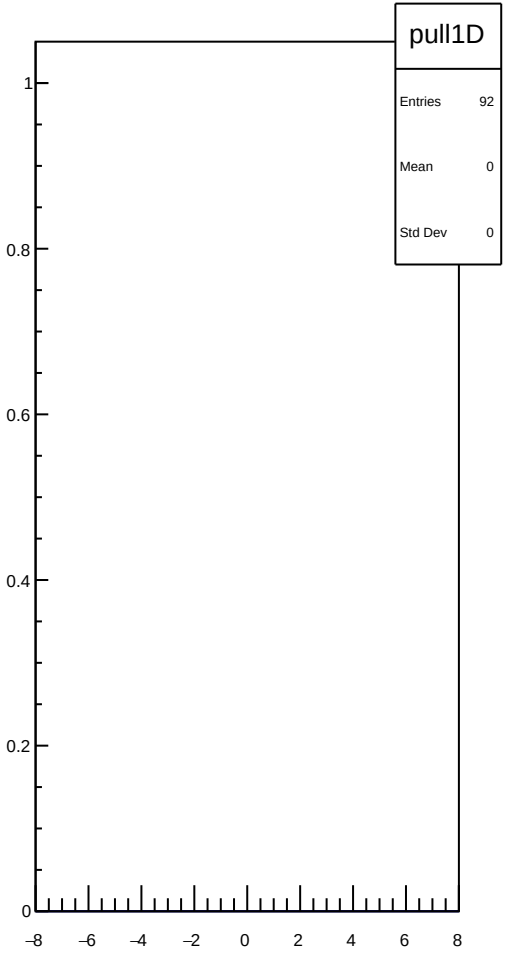

yield_bpm0i07X_rms vs run
$\chi^2$ / ndf 2.104e+05 / 91
p0 0.004258 ± 3.471e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

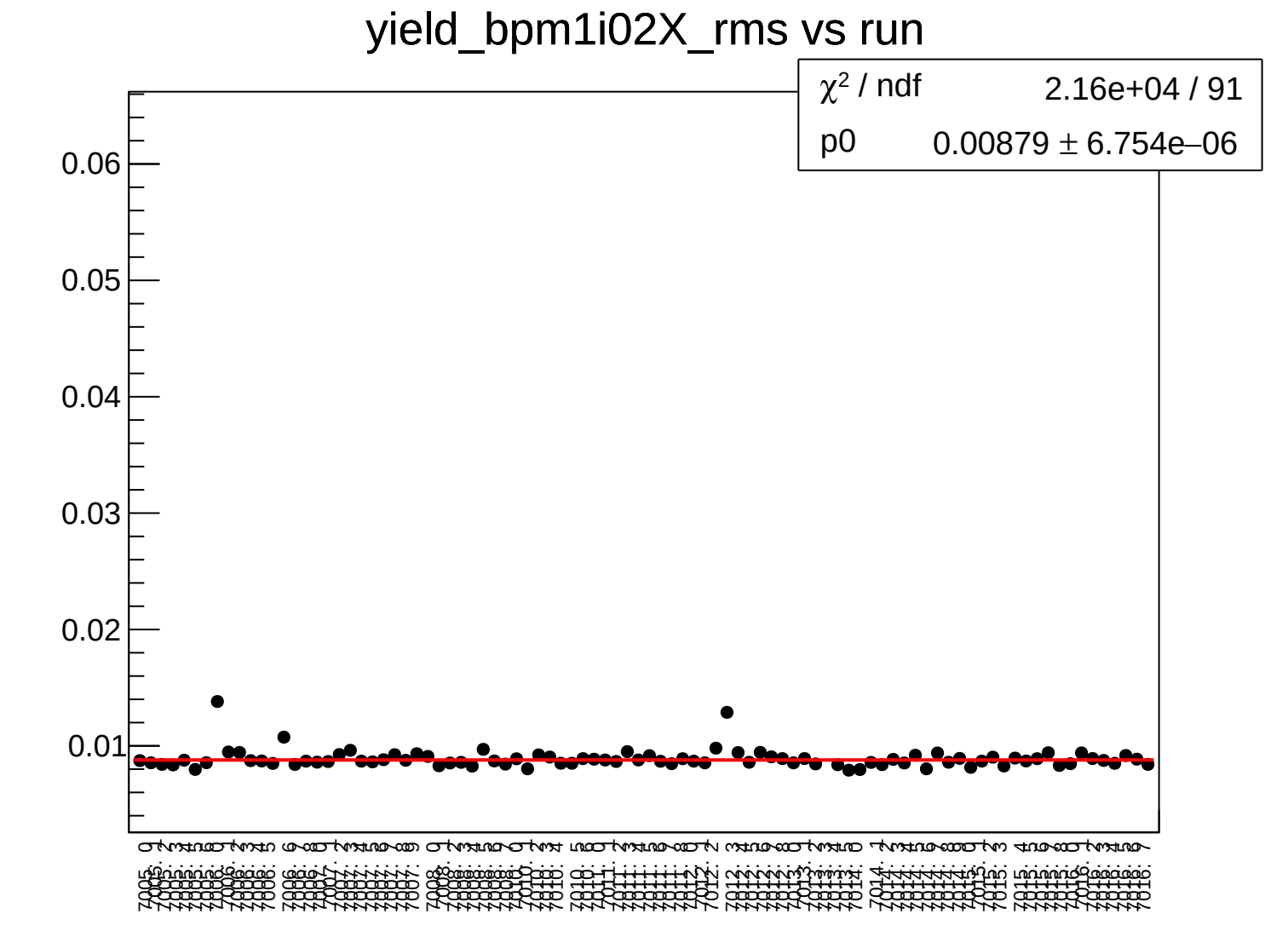

yield_bpm0i07Y_mean vs run
χ² / ndf 5.601e+08 / 91
p0 0.5692 ± 4.718e−06
0.75
0.7
0.65
0.6
0.55
0.5
0.45
pull
Entries 92
Mean 2740
Std Dev 0
6000
5000
4000
3000
2000
1000
0
−1000
−2000
−3000

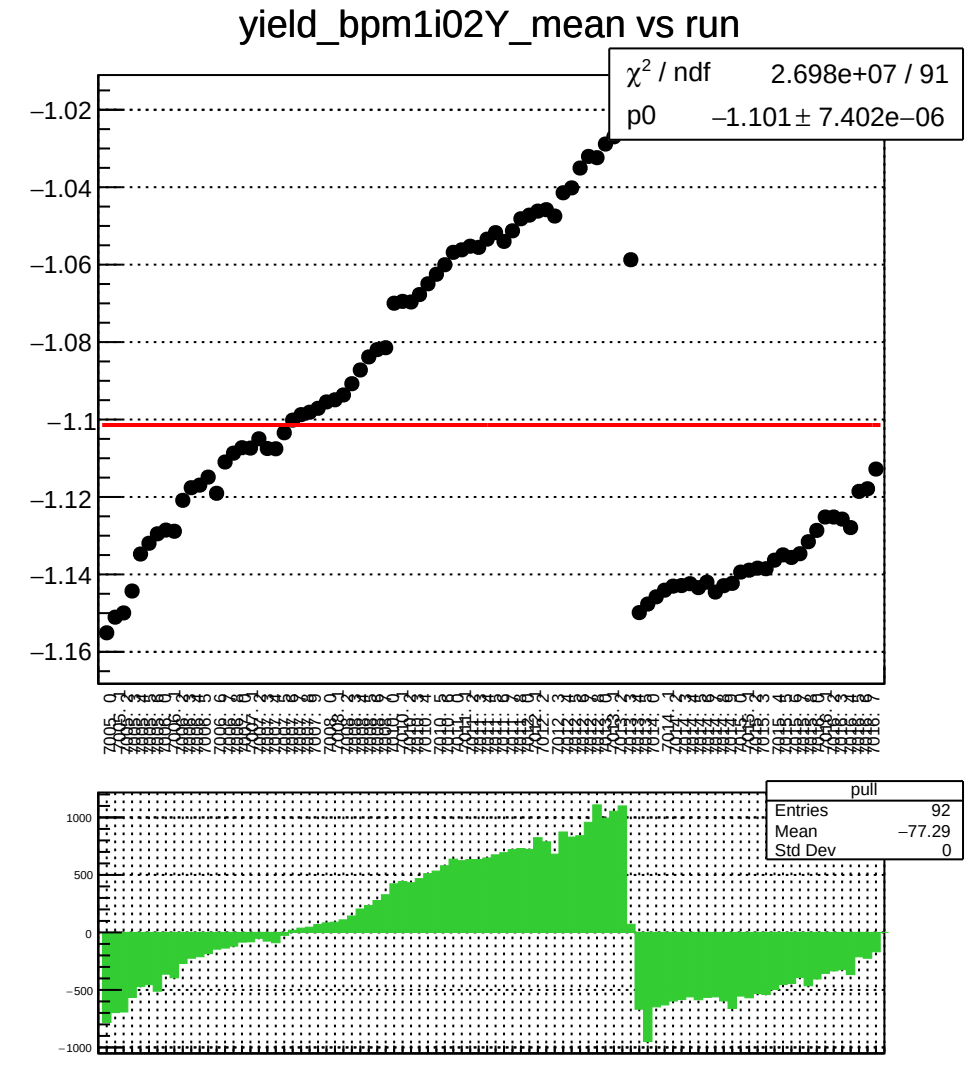

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

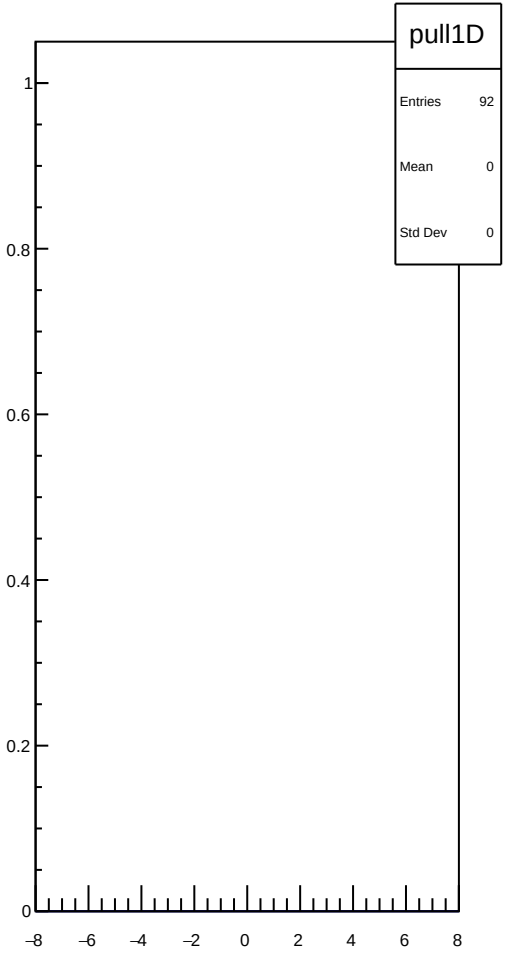

yield_bpm0i07Y_rms vs run
χ² / ndf 2.448e+05 / 91
p0 0.004046 ± 3.336e−06
0.12
0.1
0.08
0.06
0.04
0.02

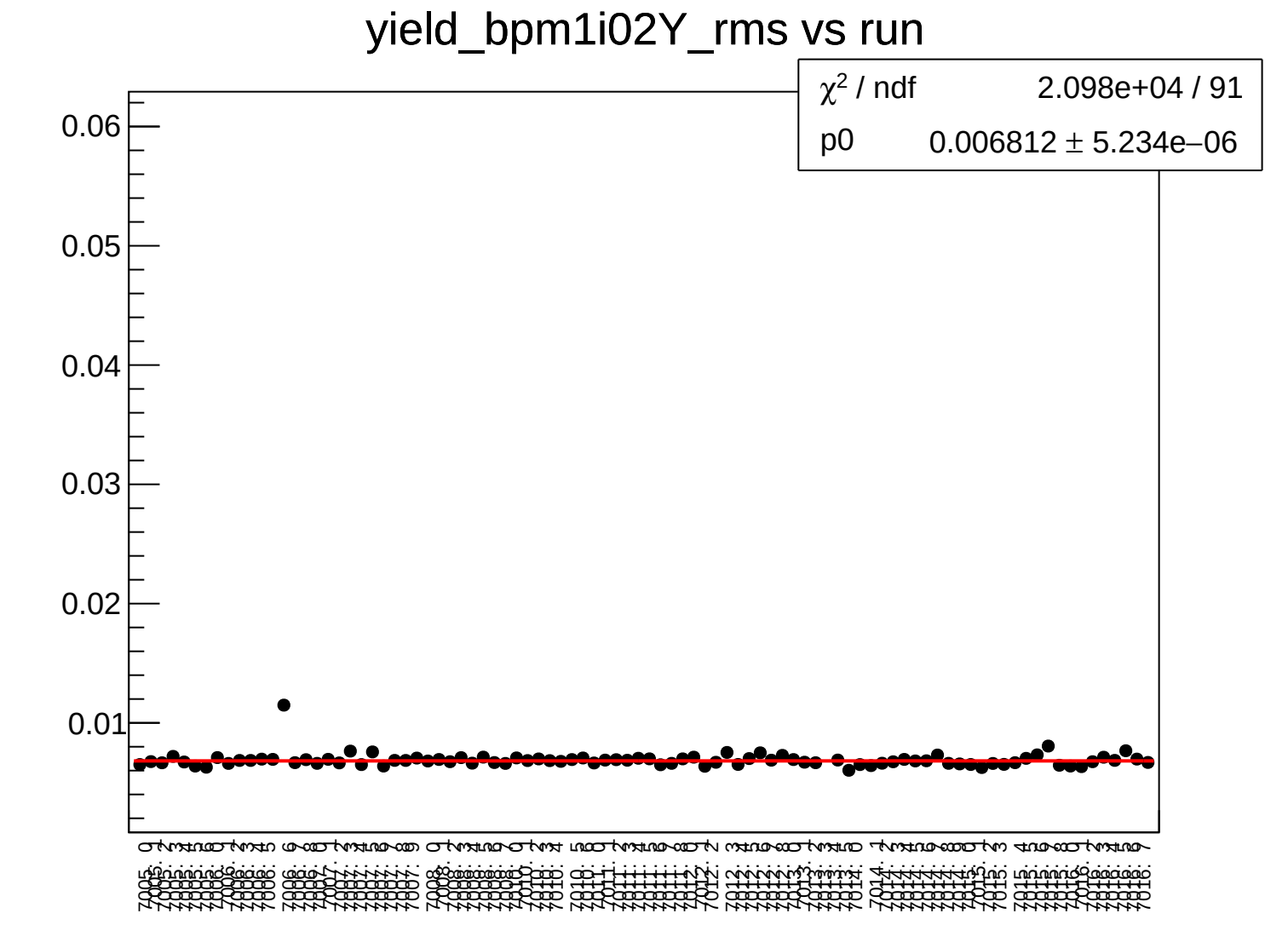

yield_bpm1i02X_mean vs run
χ² / ndf 4.048e+07 / 91
p0 −2.271 ± 9.551e−06
−2.2
−2.22
−2.24
−2.26
−2.28
−2.3
−2.32
−2.34
−2.36
pull
Entries 92
Mean −1137
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

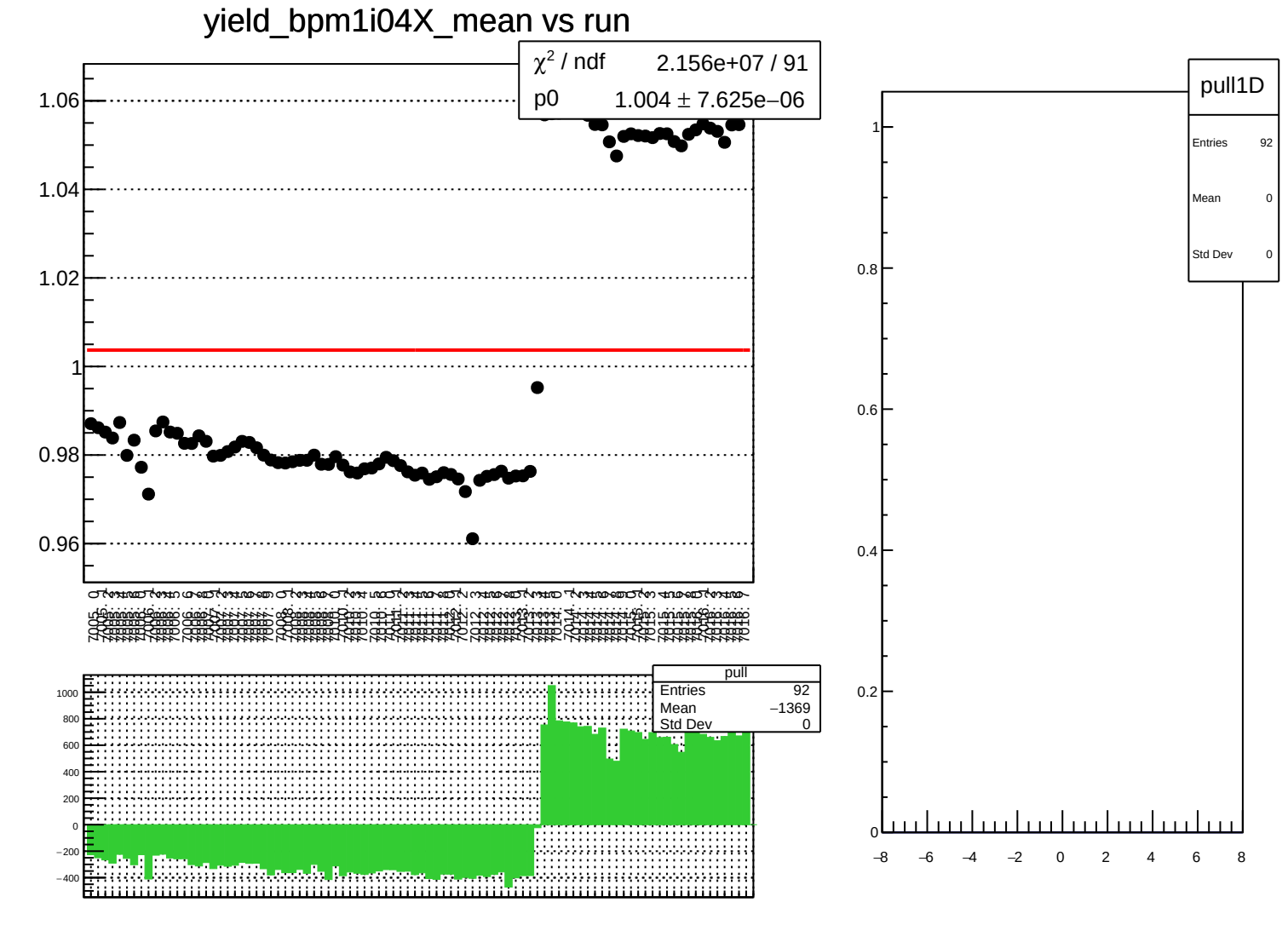

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

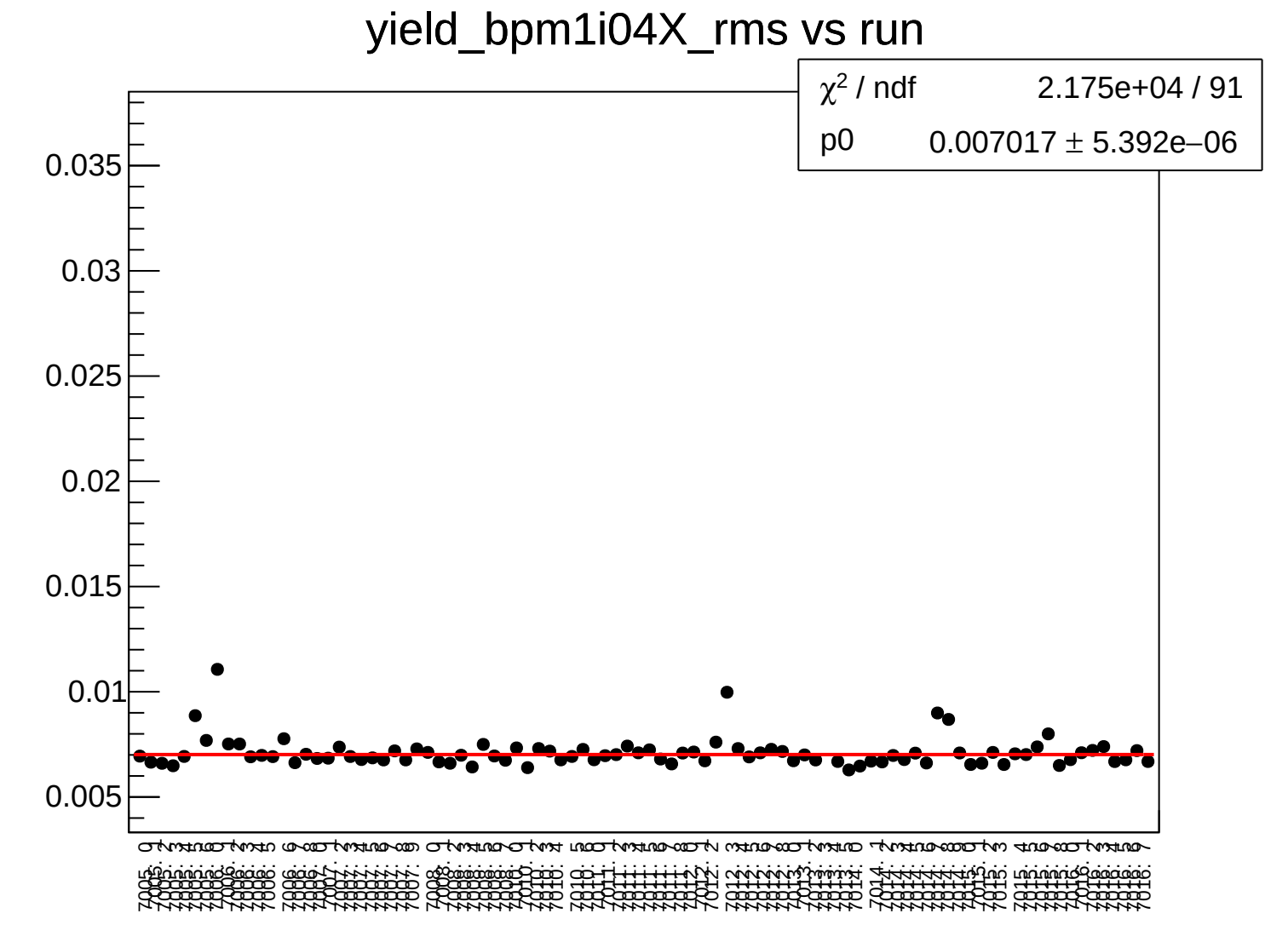

yield_bpm1i02X_rms vs run
χ² / ndf 2.16e+04 / 91
p0 0.00879 ± 6.754e–06
0.06
0.05
0.04
0.03
0.02
0.01

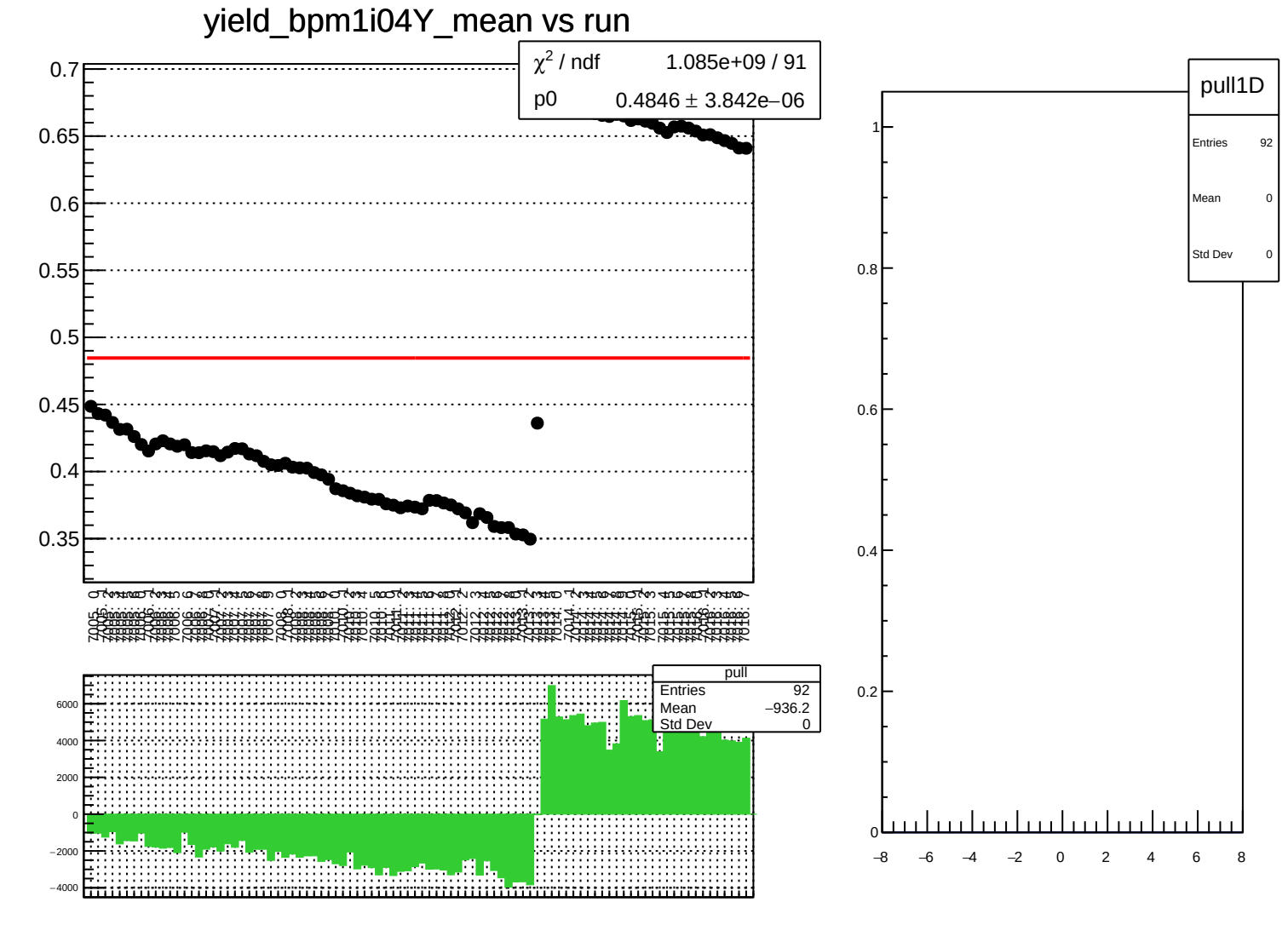

yield_bpm1i02Y_mean vs run
χ² / ndf 2.698e+07 / 91
p0 −1.101 ± 7.402e−06
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
pull
Entries 92
Mean −77.29
Std Dev 0
1000
500
0
−500
−1000

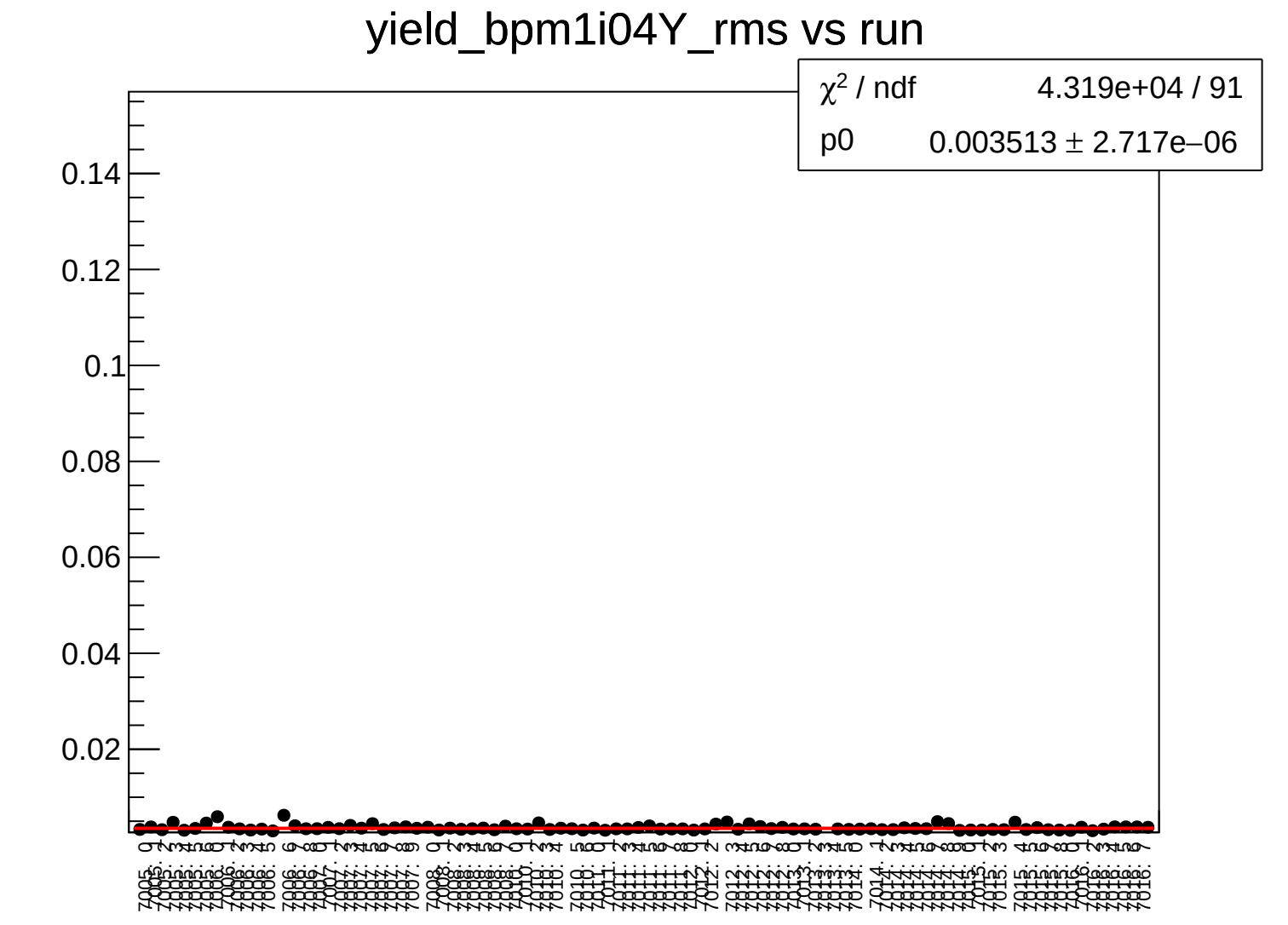

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

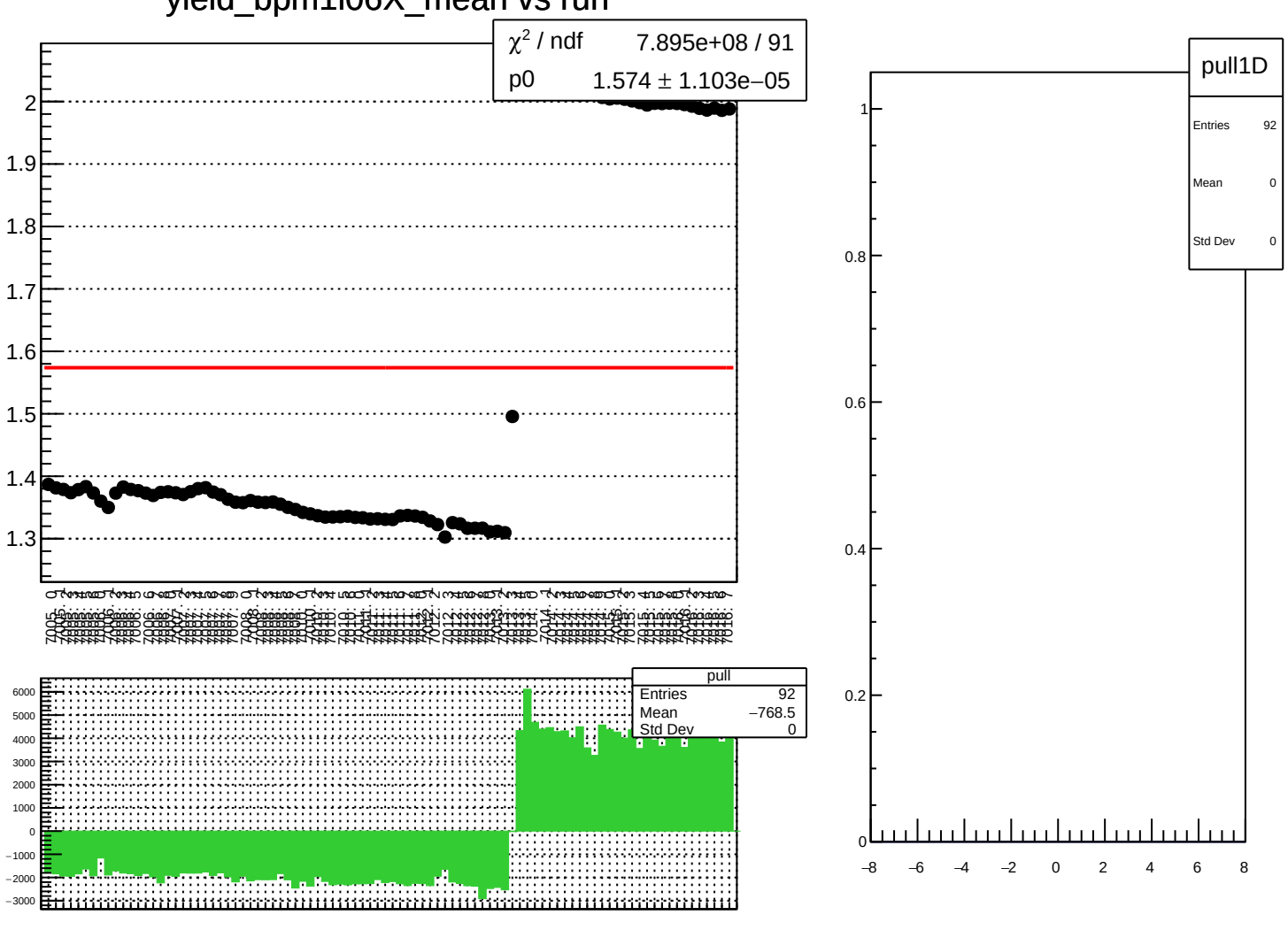

yield_bpm1i02Y_rms vs run
χ² / ndf 2.098e+04 / 91
p0 0.006812 ± 5.234e−06
0.06
0.05
0.04
0.03
0.02
0.01

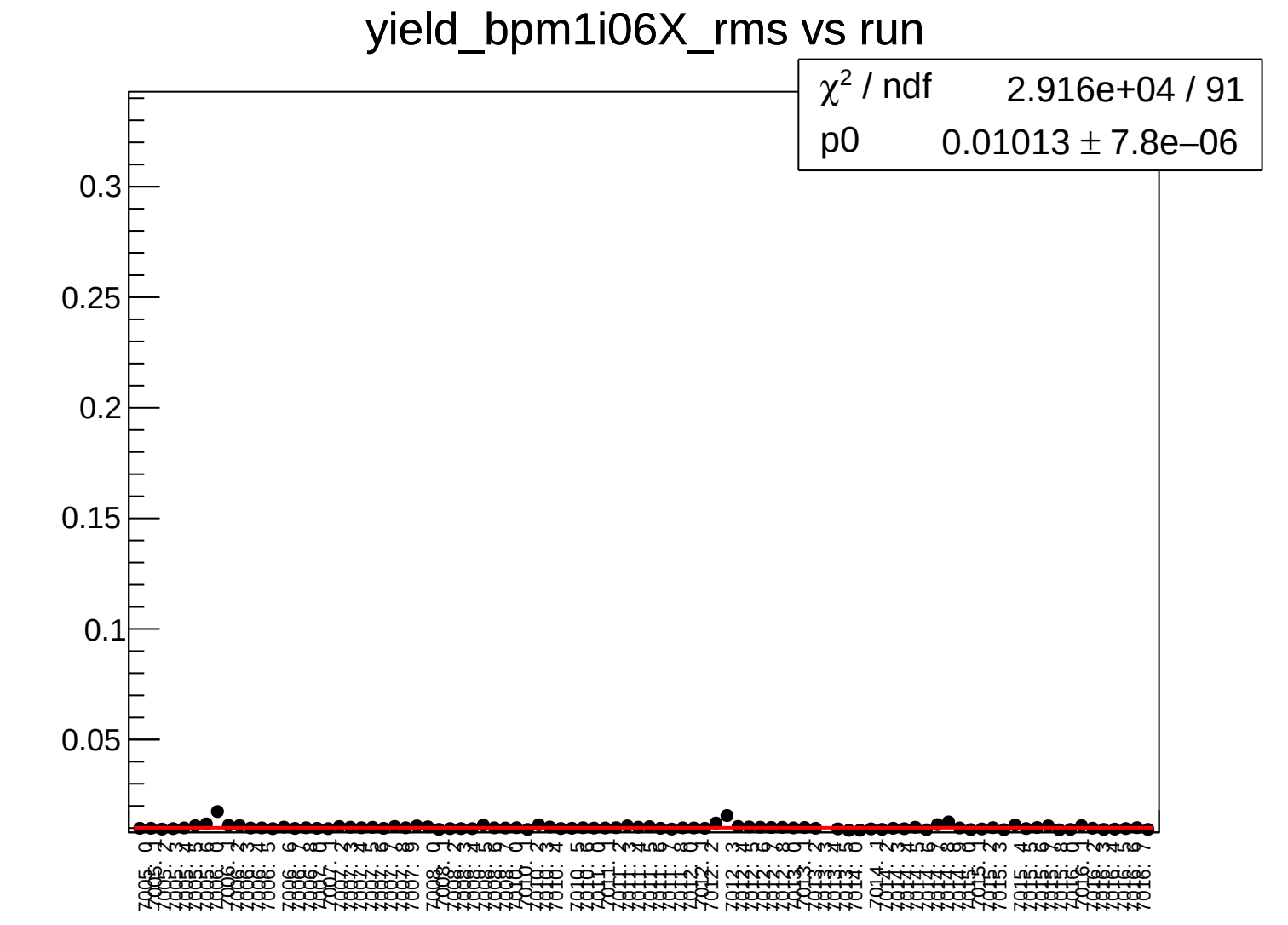

yield_bpm1i04X_mean vs run
χ² / ndf 2.156e+07 / 91
p0 1.004 ± 7.625e−06
1.06
1.04
1.02
1
0.98
0.96
pull
Entries 92
Mean −1369
Std Dev 0
1000
800
600
400
200
0
−200
−400
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

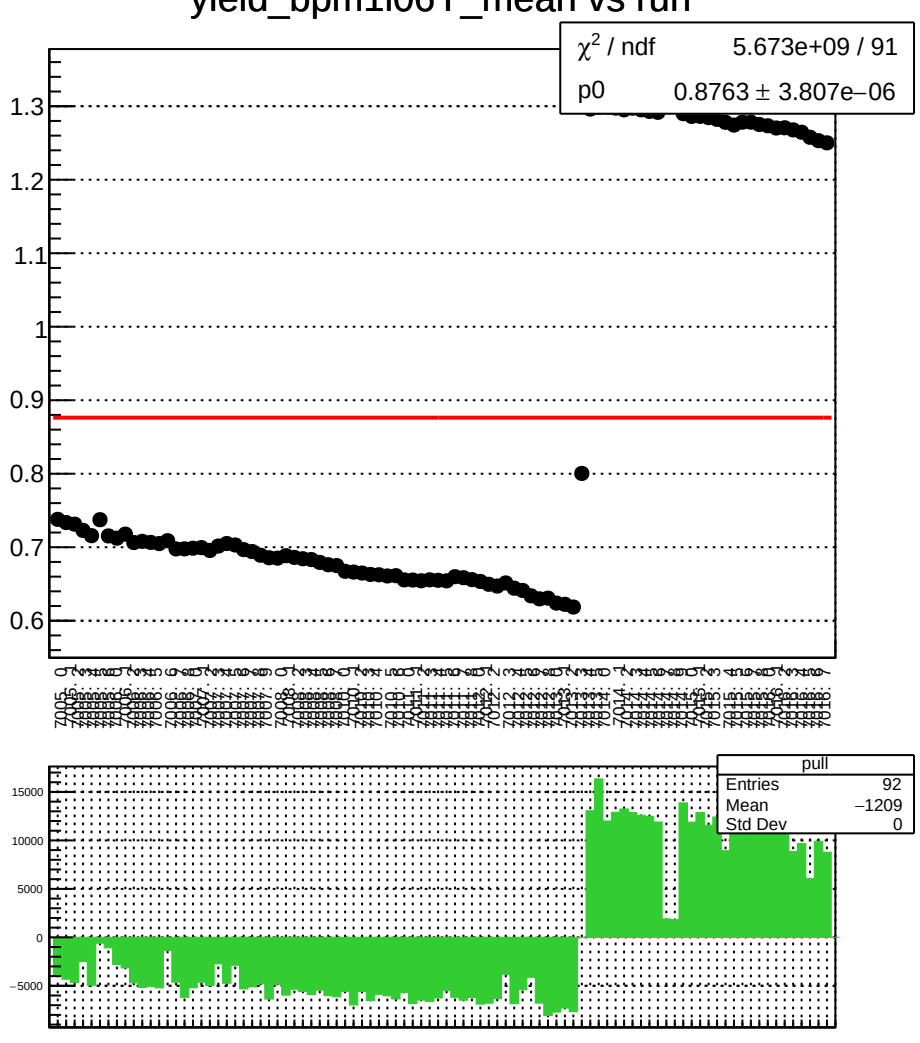

yield_bpm1i04X_rms vs run
χ² / ndf 2.175e+04 / 91
p0 0.007017 ± 5.392e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

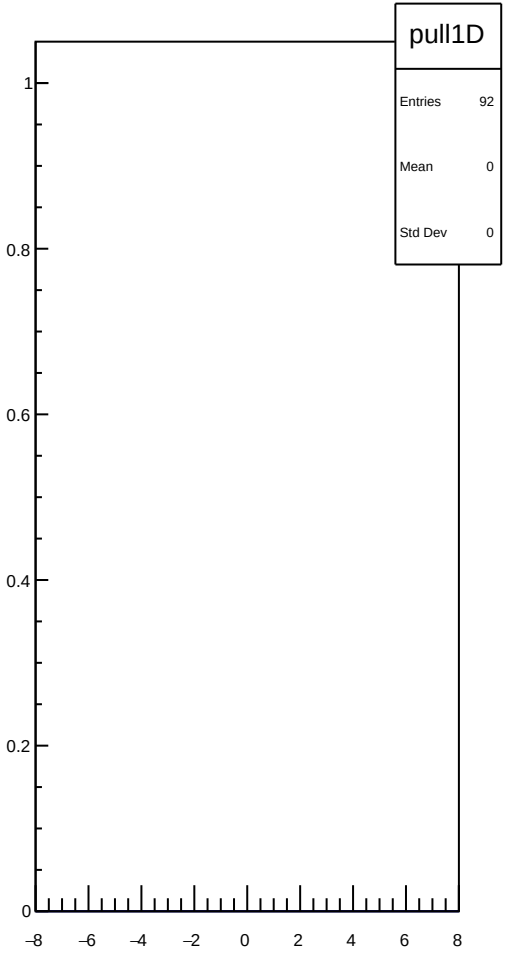

yield_bpm1i04Y_mean vs run
χ² / ndf 1.085e+09 / 91
p0 0.4846 ± 3.842e−06
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
pull
Entries 92
Mean −936.2
Std Dev 0
6000
4000
2000
0
−2000
−4000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

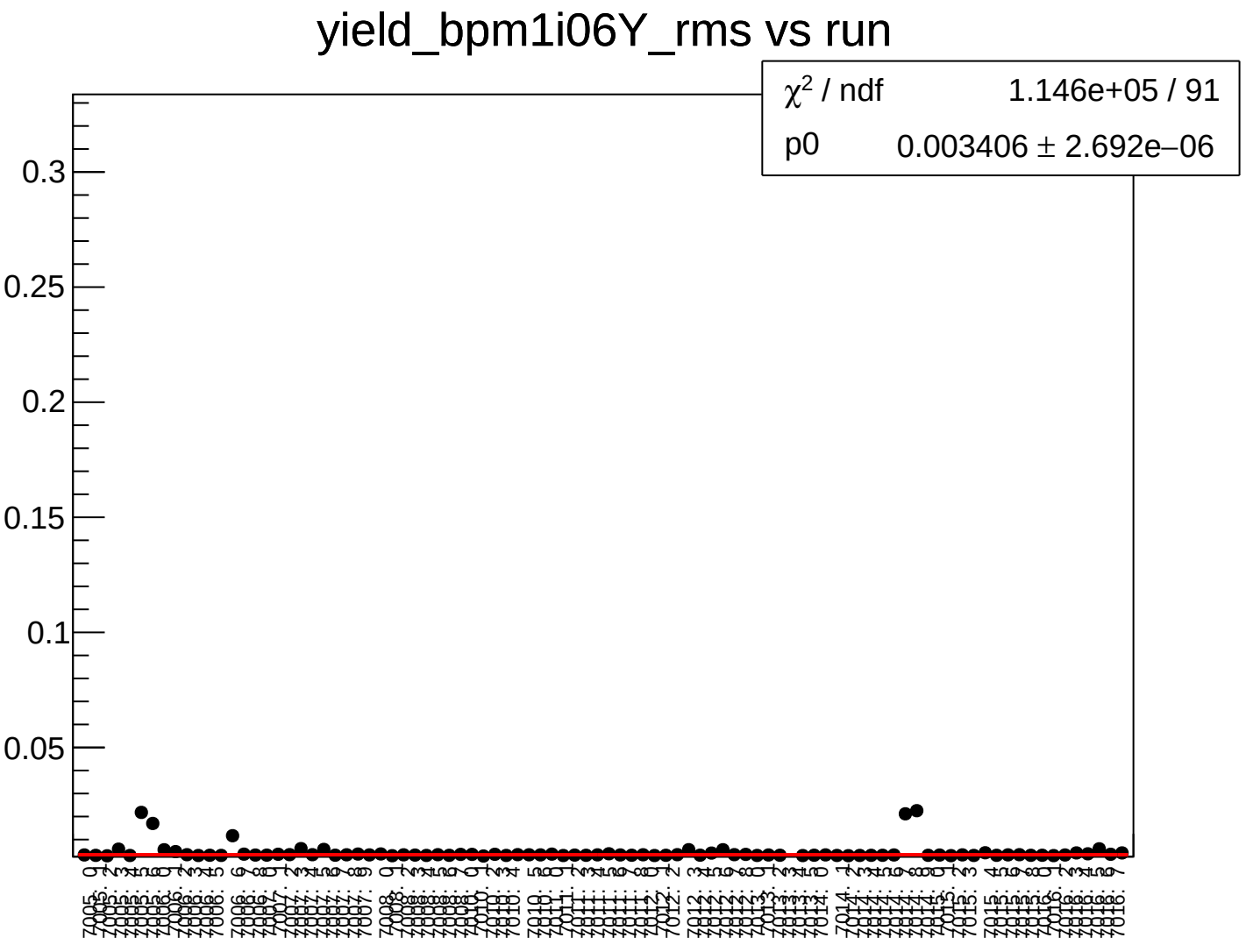

yield_bpm1i04Y_rms vs run
χ² / ndf 4.319e+04 / 91
p0 0.003513 ± 2.717e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

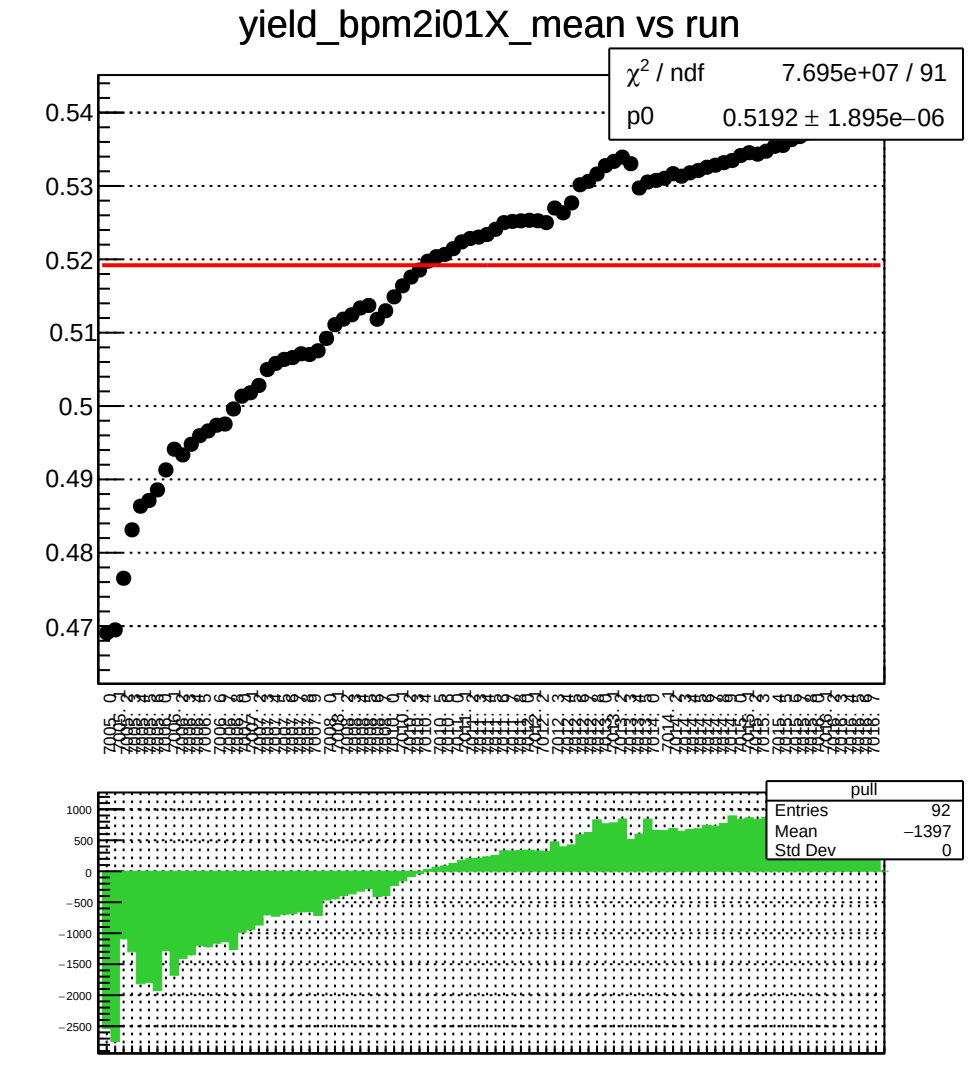

yield_bpm1i06X_mean vs run
χ² / ndf 7.895e+08 / 91
p0 1.574 ± 1.103e−05
pull
Entries 92
Mean −768.5
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0

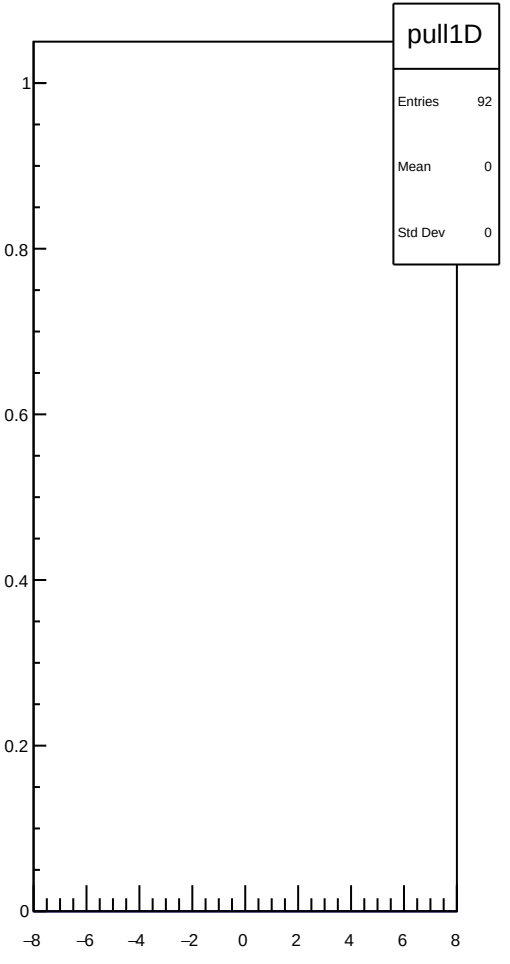

yield_bpm1i06X_rms vs run
χ² / ndf 2.916e+04 / 91
p0 0.01013 ± 7.8e−06
0.3
0.25
0.2
0.15
0.1
0.05

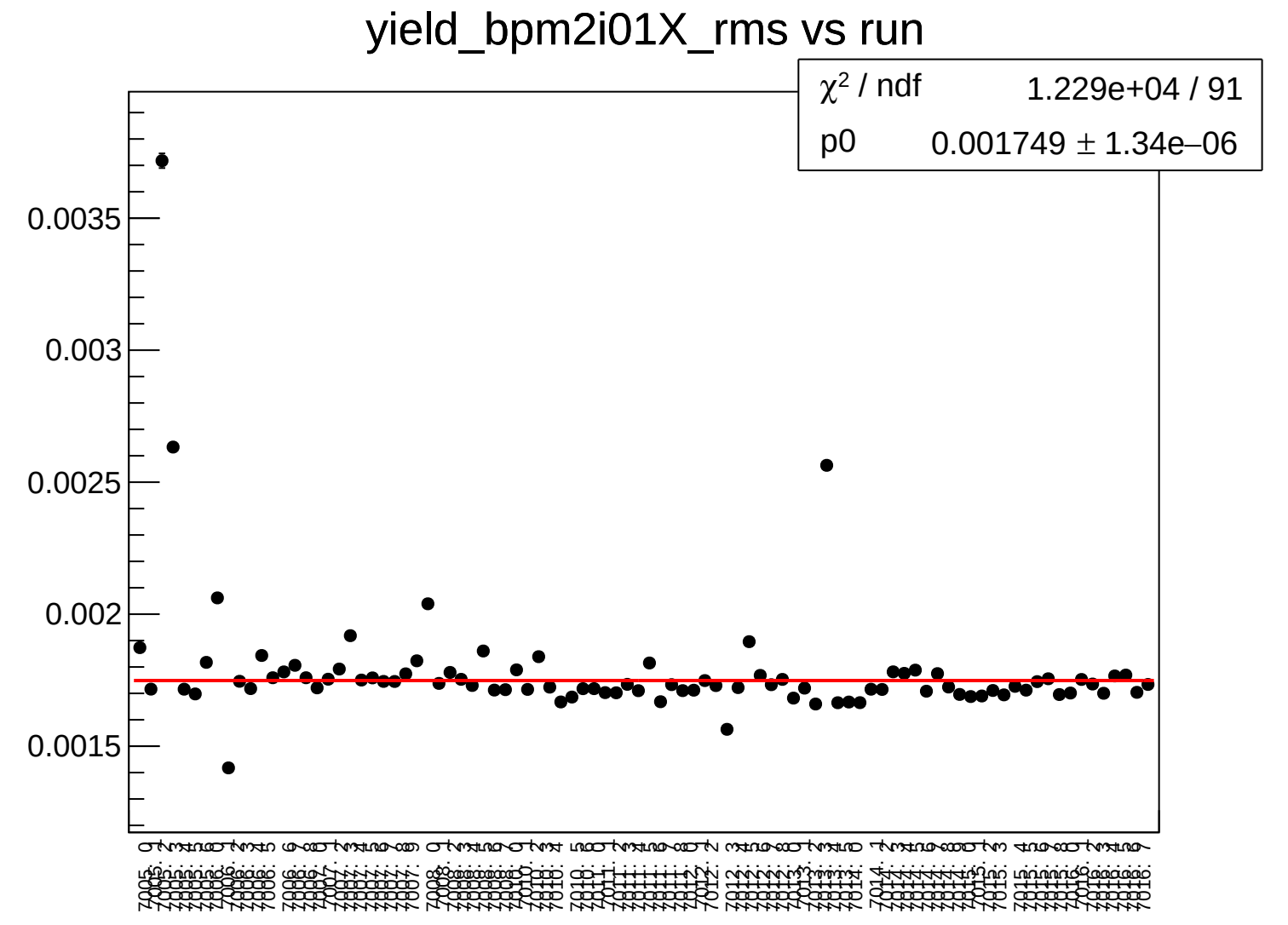

yield_bpm1i06Y_mean vs run
χ² / ndf 5.673e+09 / 91
p0 0.8763 ± 3.807e−06
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
pull
Entries 92
Mean −1209
Std Dev 0
15000
10000
5000
0
−5000

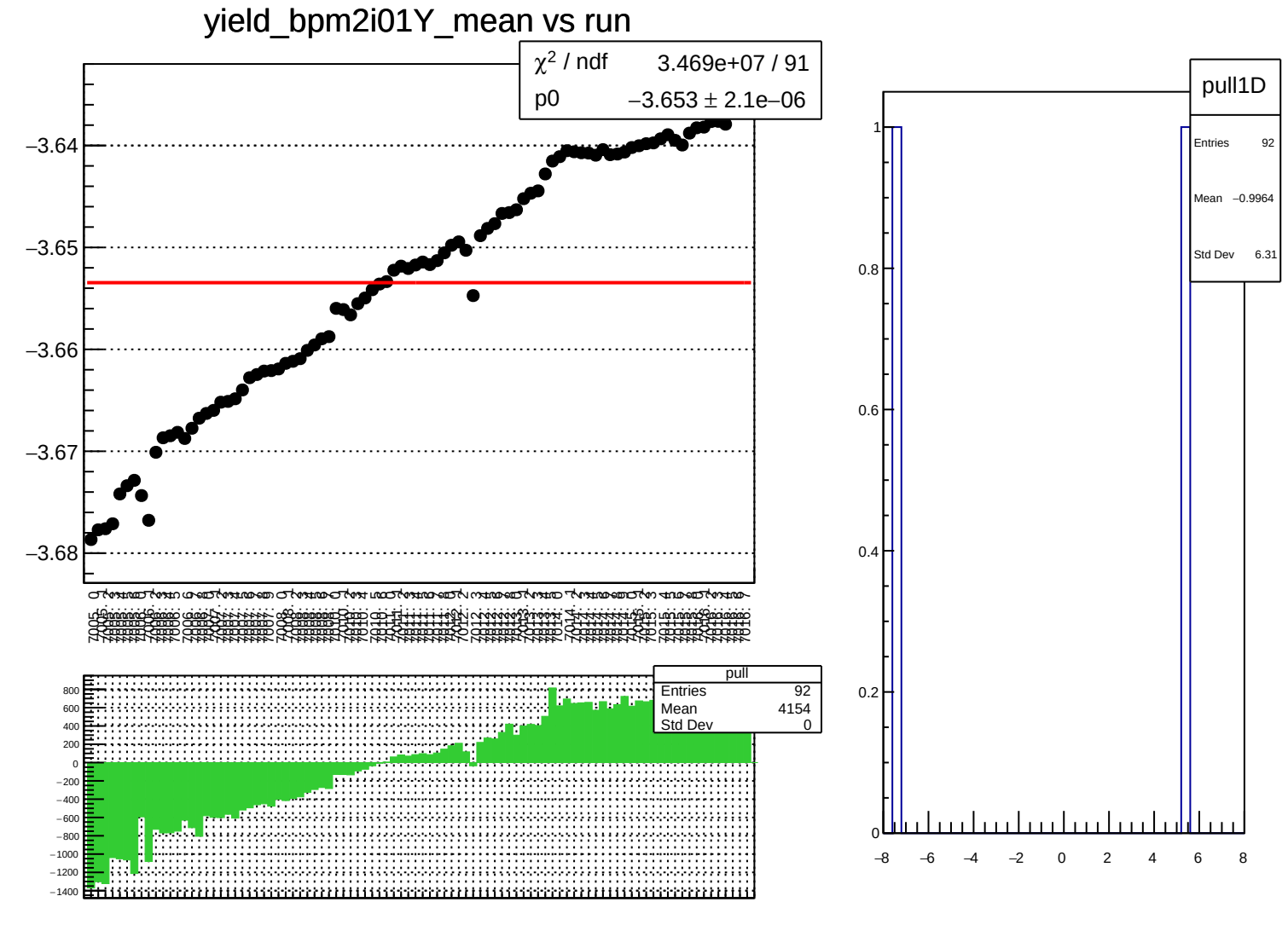

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

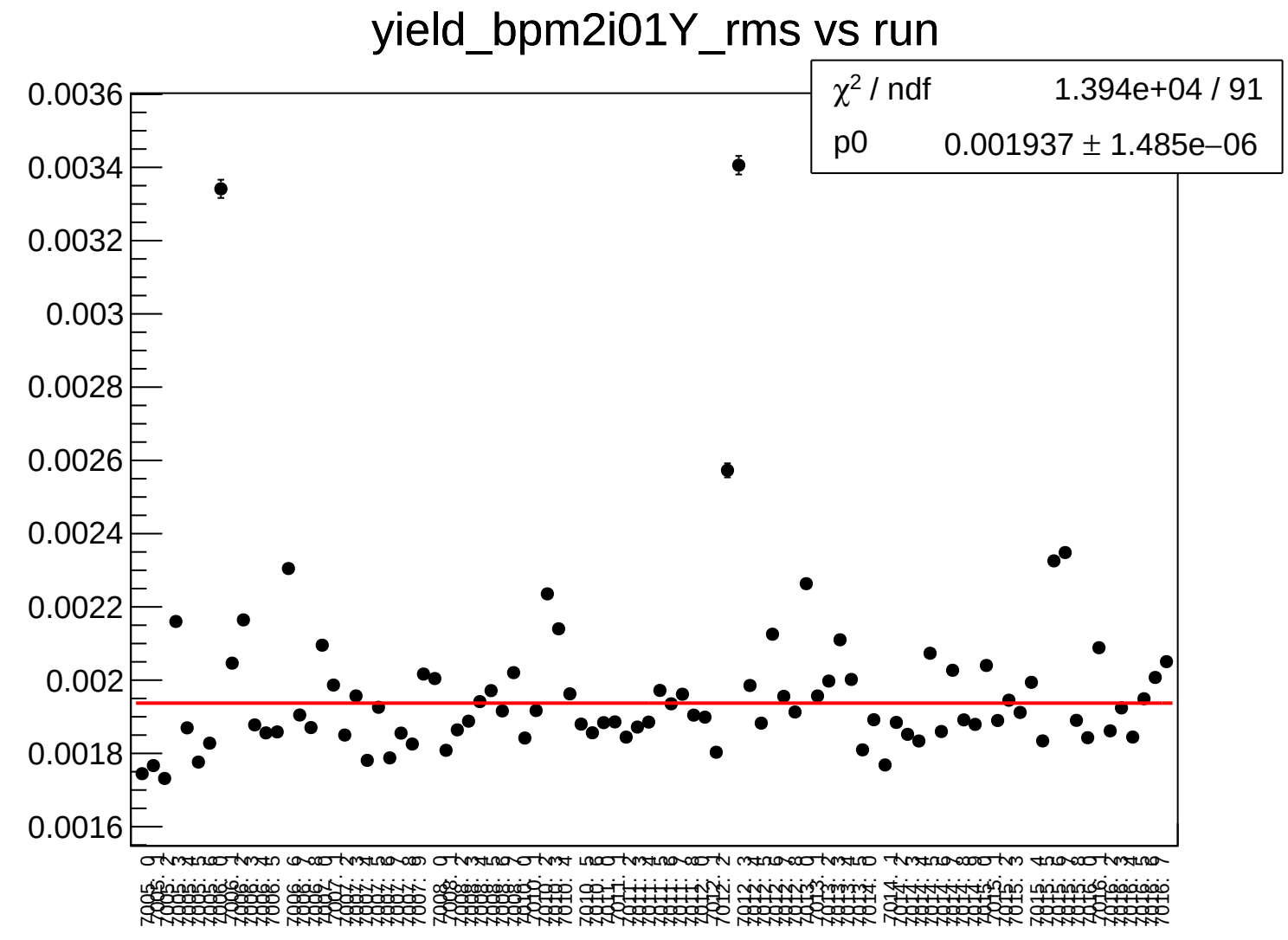

yield_bpm1i06Y_rms vs run
χ² / ndf 1.146e+05 / 91
p0 0.003406 ± 2.692e−06
0.3
0.25
0.2
0.15
0.1
0.05

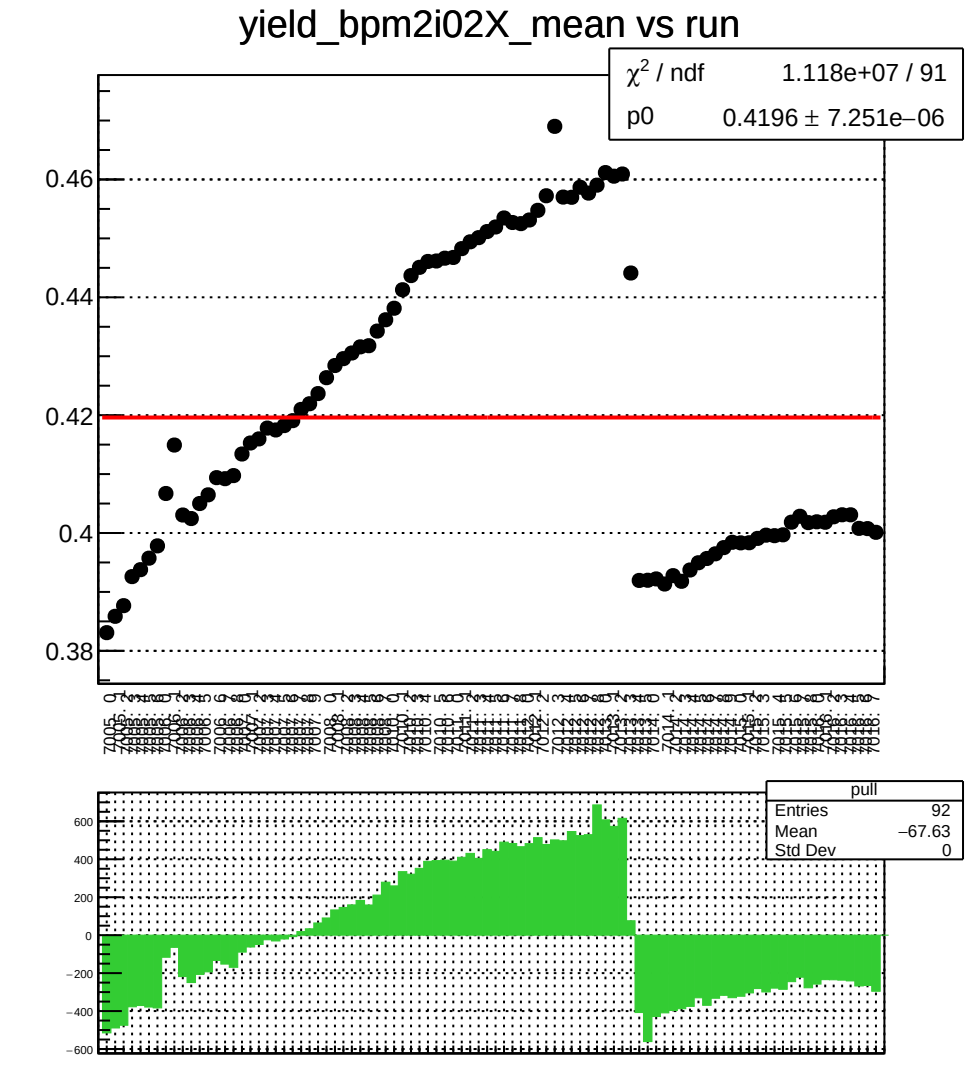

yield_bpm2i01X_mean vs run
χ² / ndf 7.695e+07 / 91
p0 0.5192 ± 1.895e−06
0.54
0.53
0.52
0.51
0.5
0.49
0.48
0.47
pull
Entries 92
Mean −1397
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

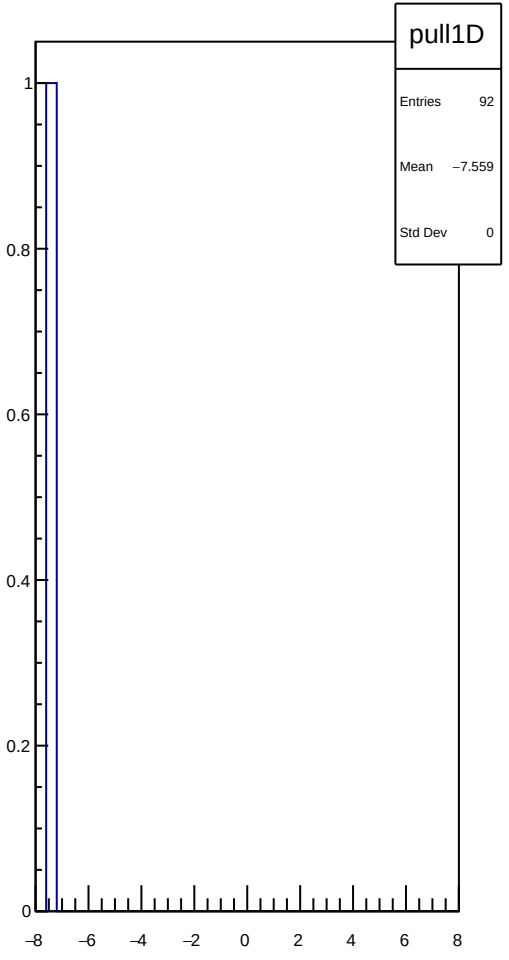

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

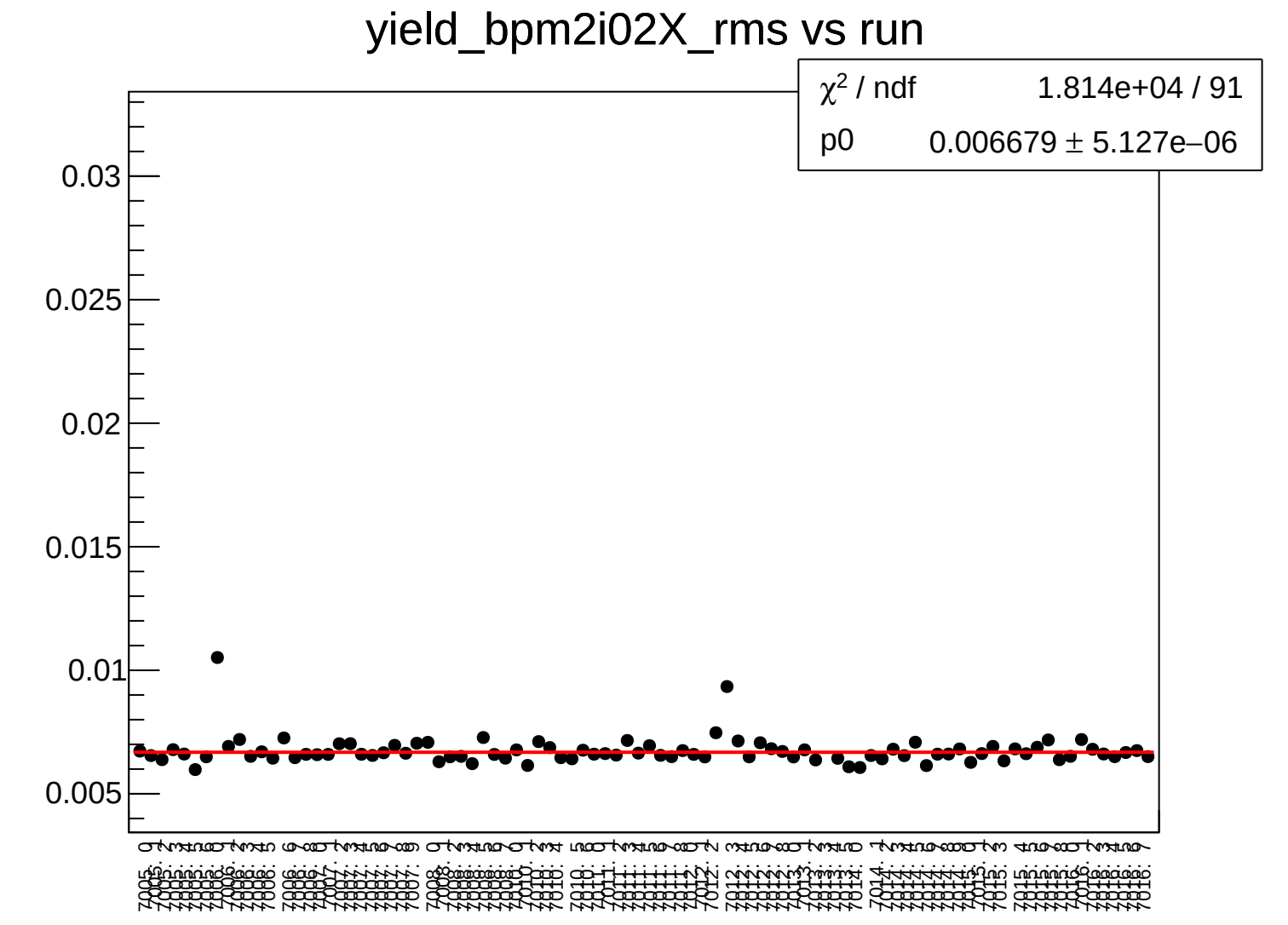

yield_bpm2i01X_rms vs run
χ² / ndf 1.229e+04 / 91
p0 0.001749 ± 1.34e–06
0.0035
0.003
0.0025
0.002
0.0015

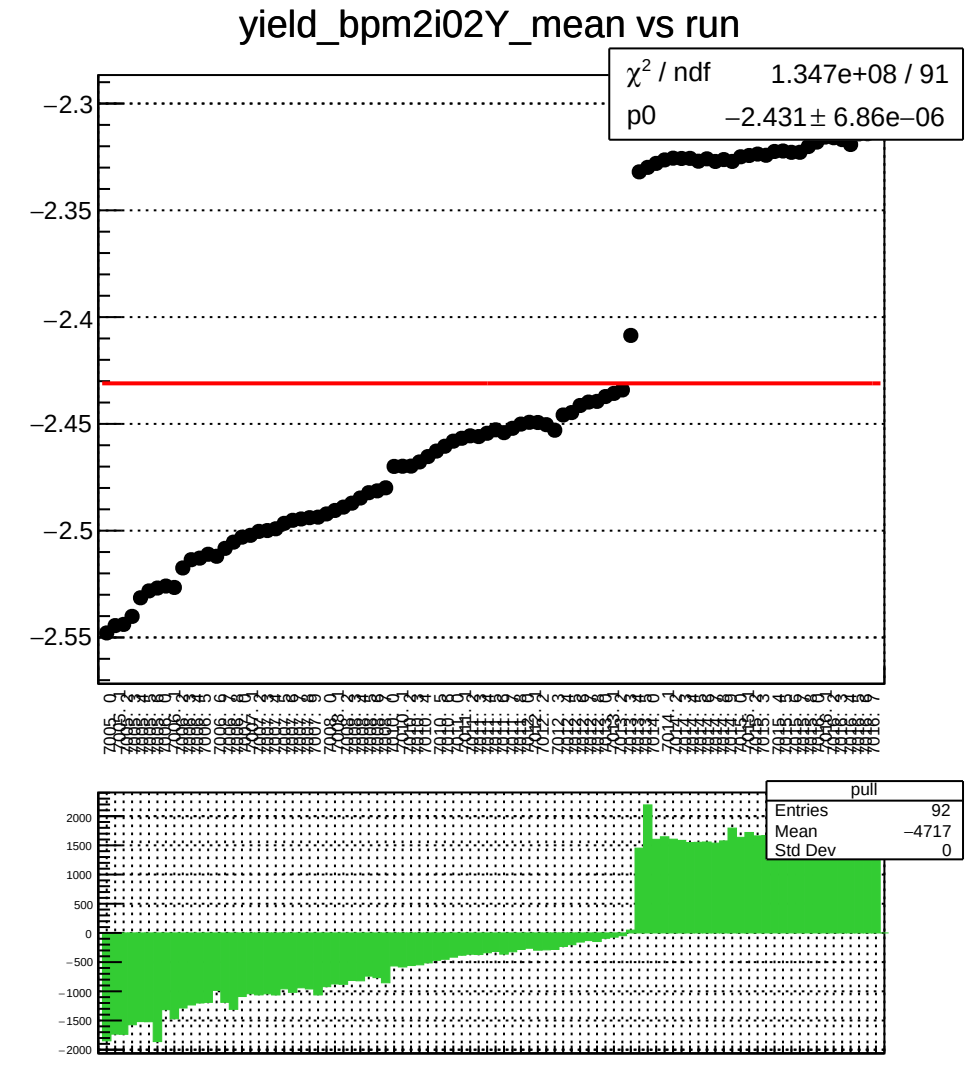

yield_bpm2i01Y_mean vs run
χ² / ndf 3.469e+07 / 91
p0 −3.653 ± 2.1e−06
−3.64
−3.65
−3.66
−3.67
−3.68
pull
Entries 92
Mean 4154
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 92
Mean −0.9964
Std Dev 6.31
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

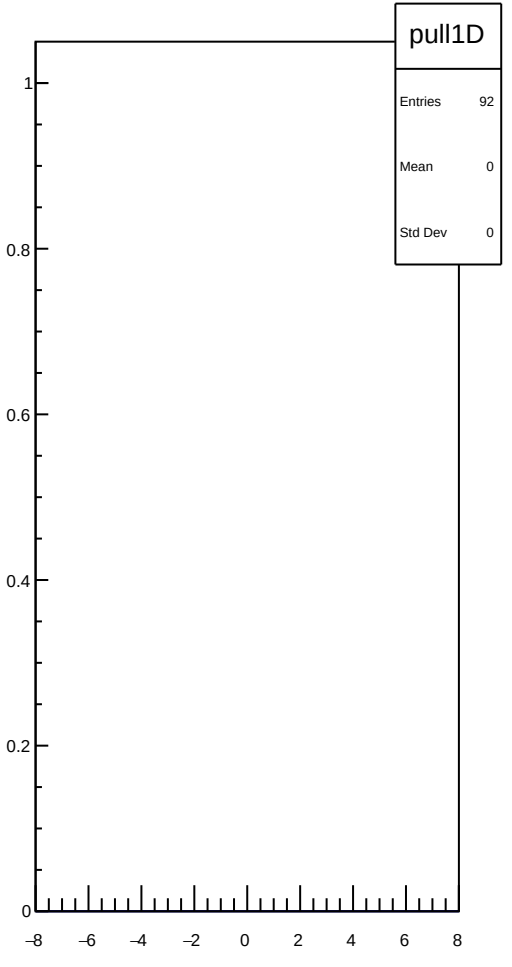

yield_bpm2i01Y_rms vs run
χ² / ndf 1.394e+04 / 91
p0 0.001937 ± 1.485e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

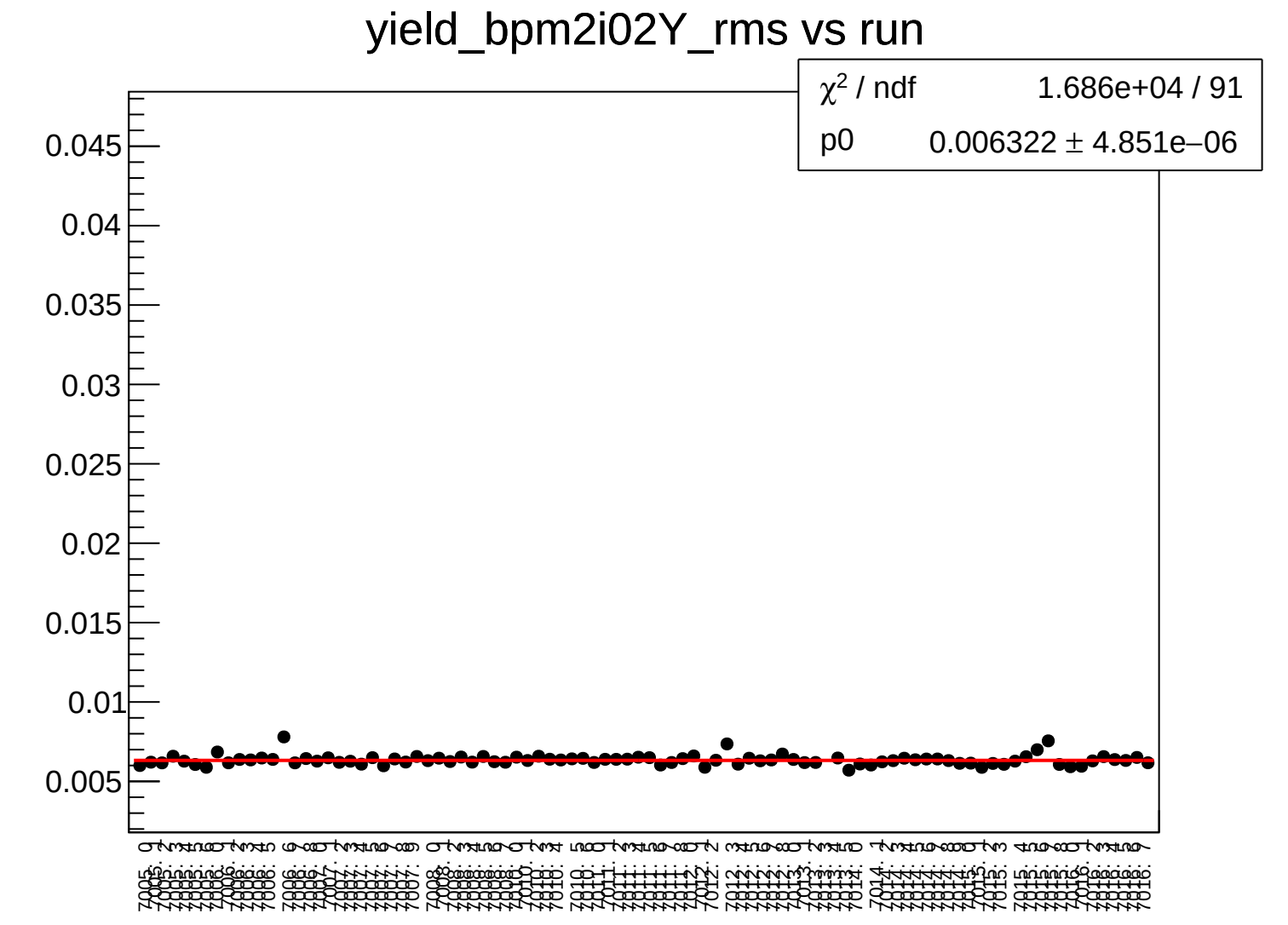

yield_bpm2i02X_mean vs run
χ² / ndf 1.118e+07 / 91
p0 0.4196 ± 7.251e−06
0.46
0.44
0.42
0.4
0.38
pull
Entries 92
Mean −67.63
Std Dev 0
600
400
200
0
−200
−400
−600

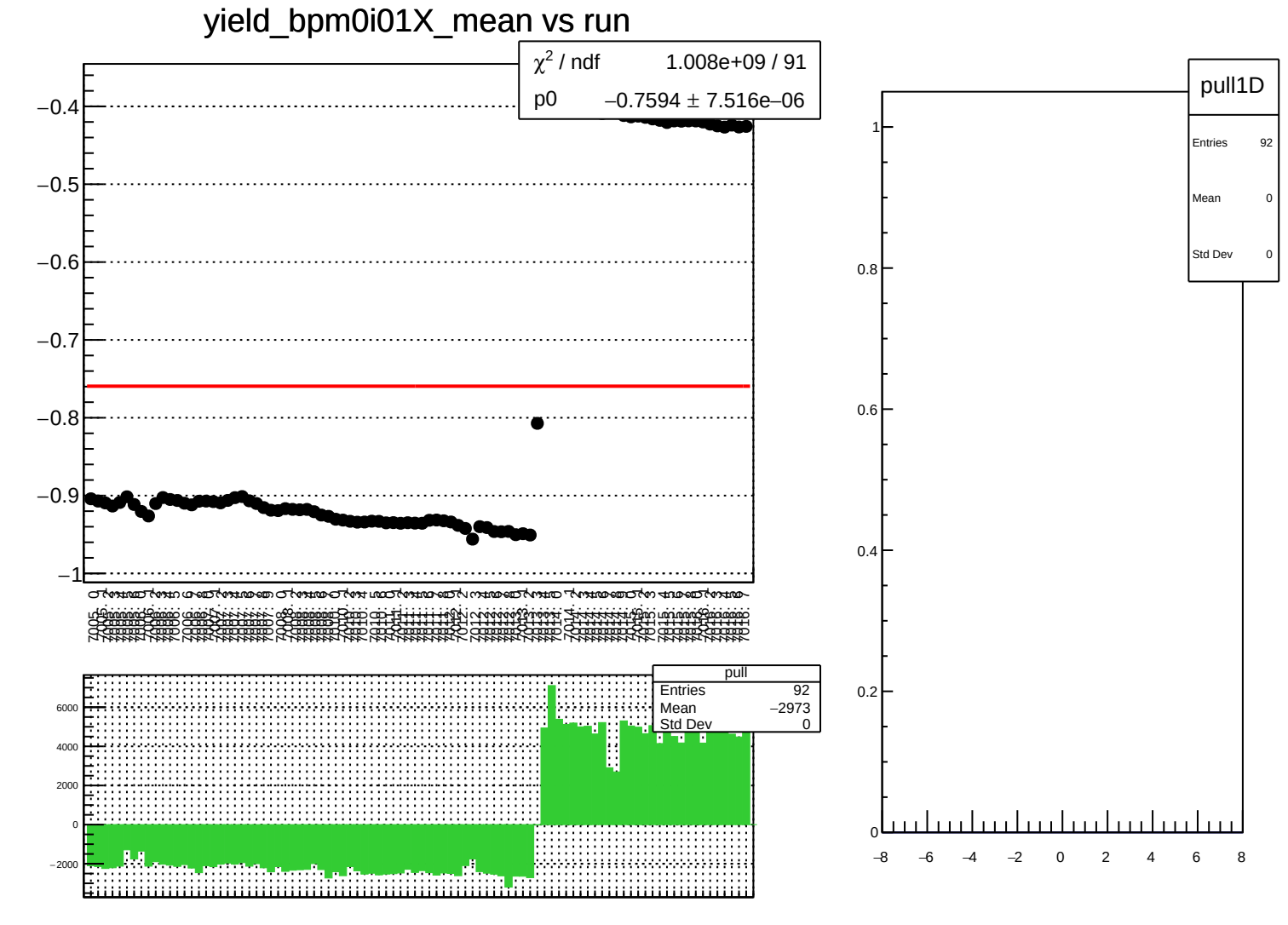

pull1D
Entries 92
Mean −7.559
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

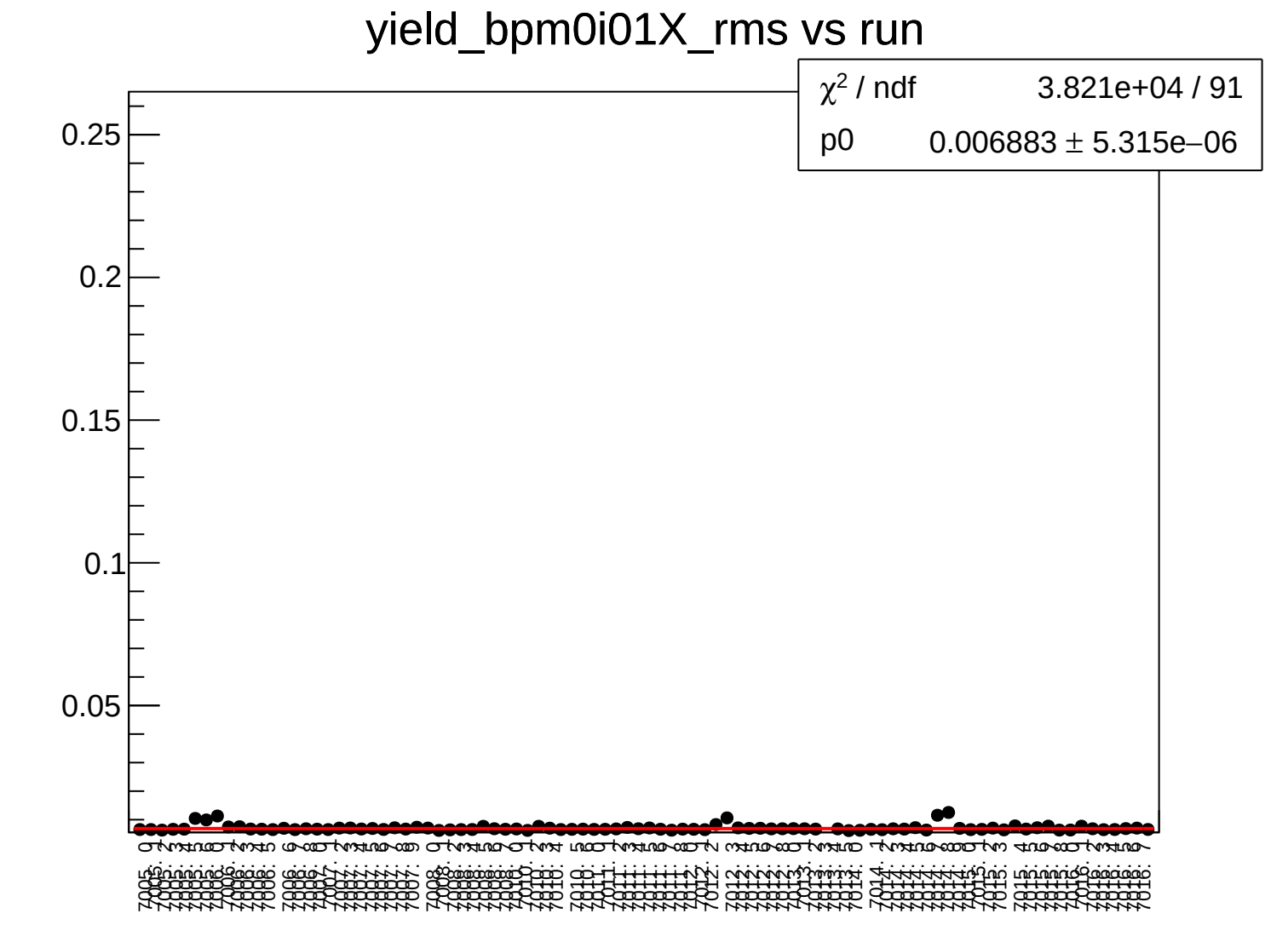

yield_bpm2i02X_rms vs run
χ² / ndf 1.814e+04 / 91
p0 0.006679 ± 5.127e−06
0.03
0.025
0.02
0.015
0.01
0.005

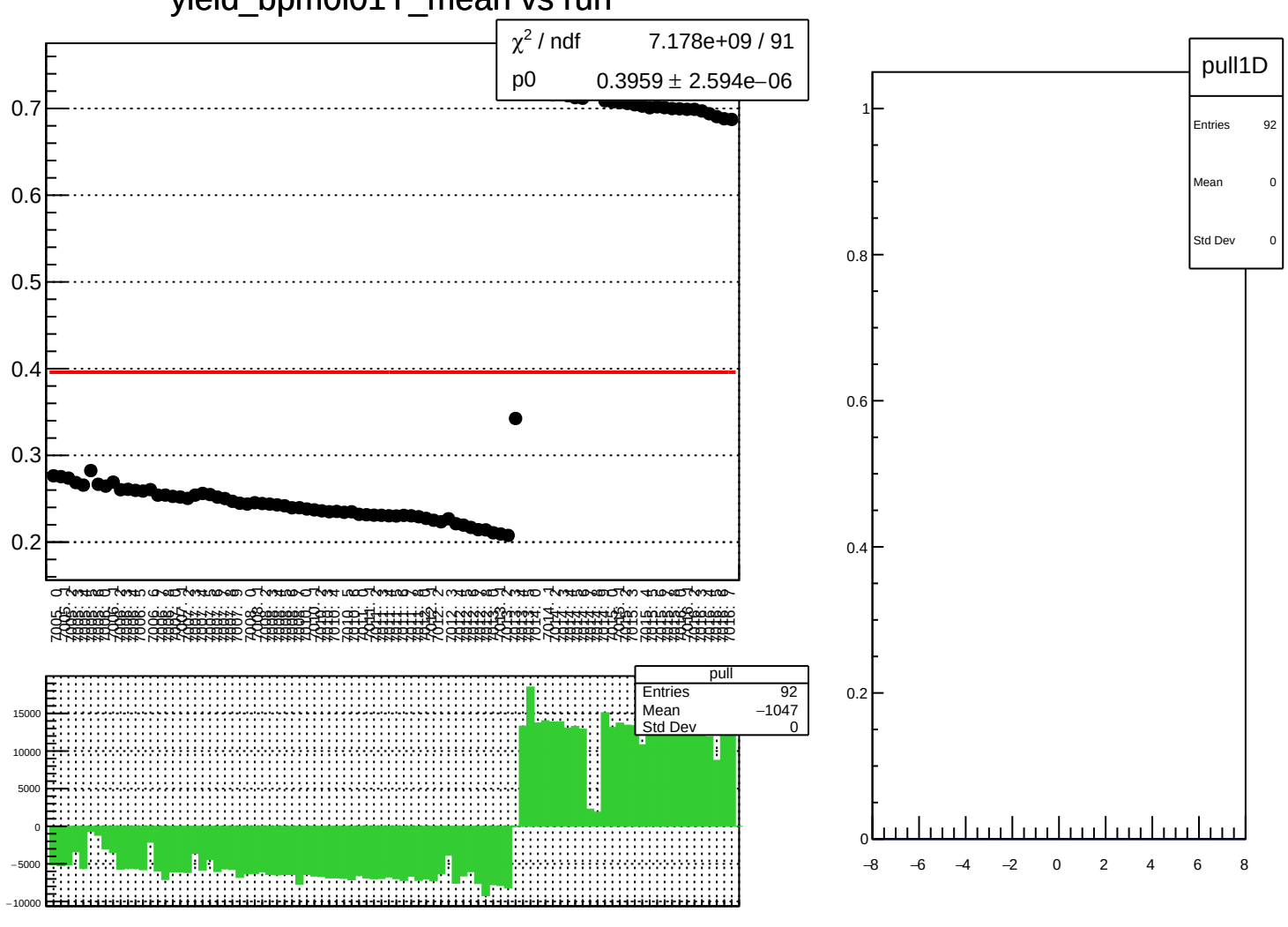

yield_bpm2i02Y_mean vs run
χ² / ndf 1.347e+08 / 91
p0 −2.431 ± 6.86e−06
−2.3
−2.35
−2.4
−2.45
−2.5
−2.55
pull
Entries 92
Mean −4717
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000

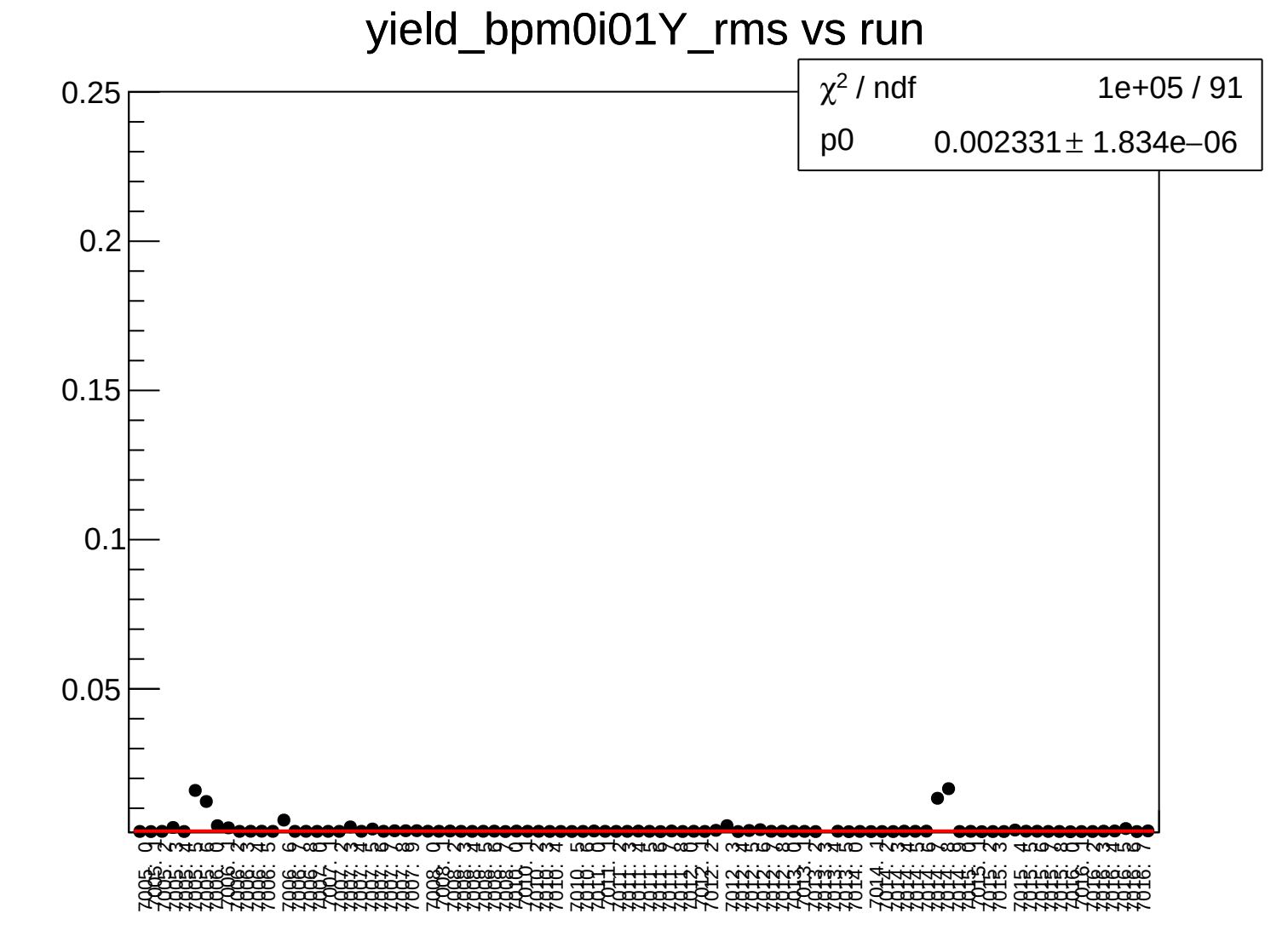

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

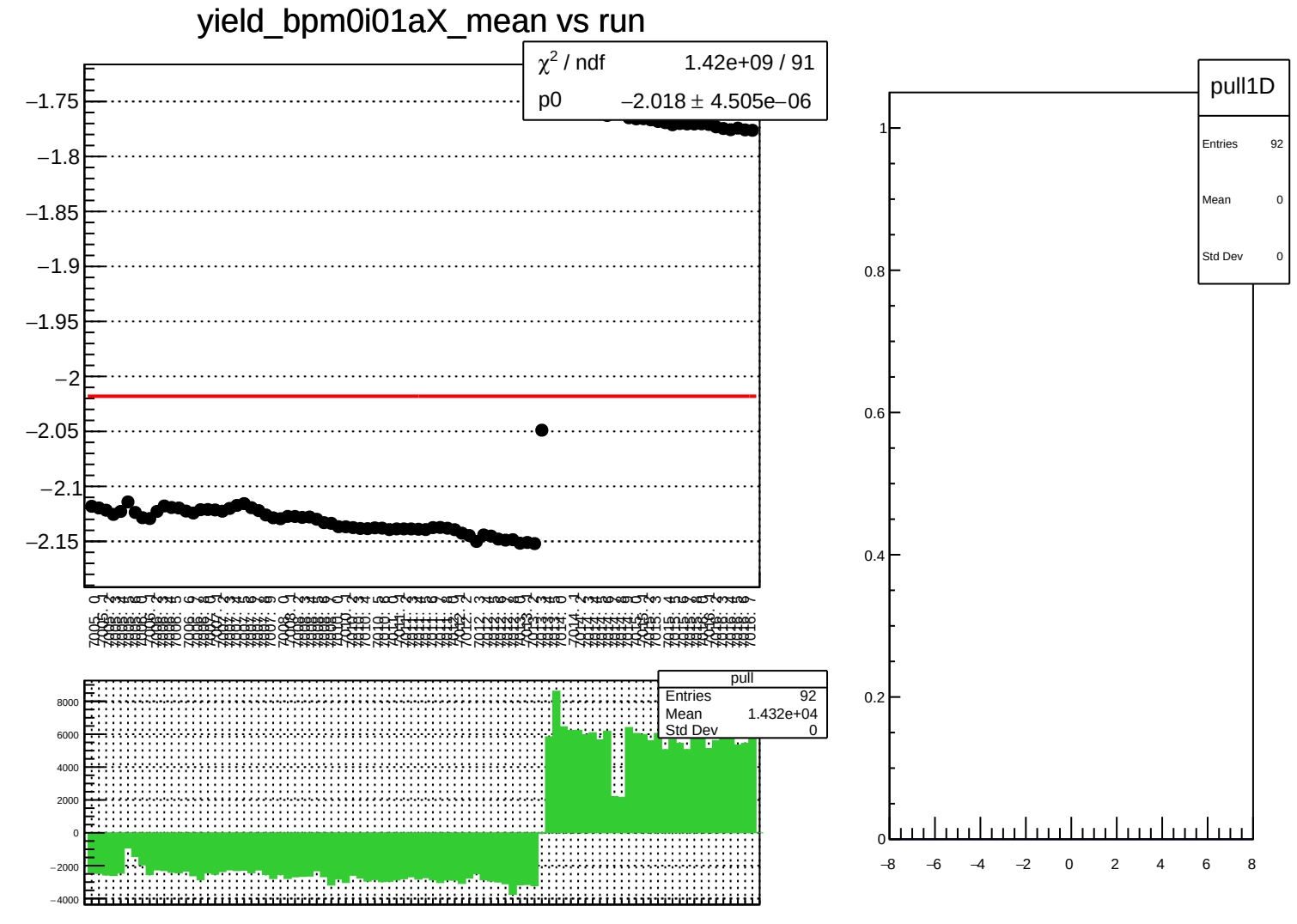

yield_bpm2i02Y_rms vs run
$\chi^2$ / ndf 1.686e+04 / 91
p0 0.006322 ± 4.851e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

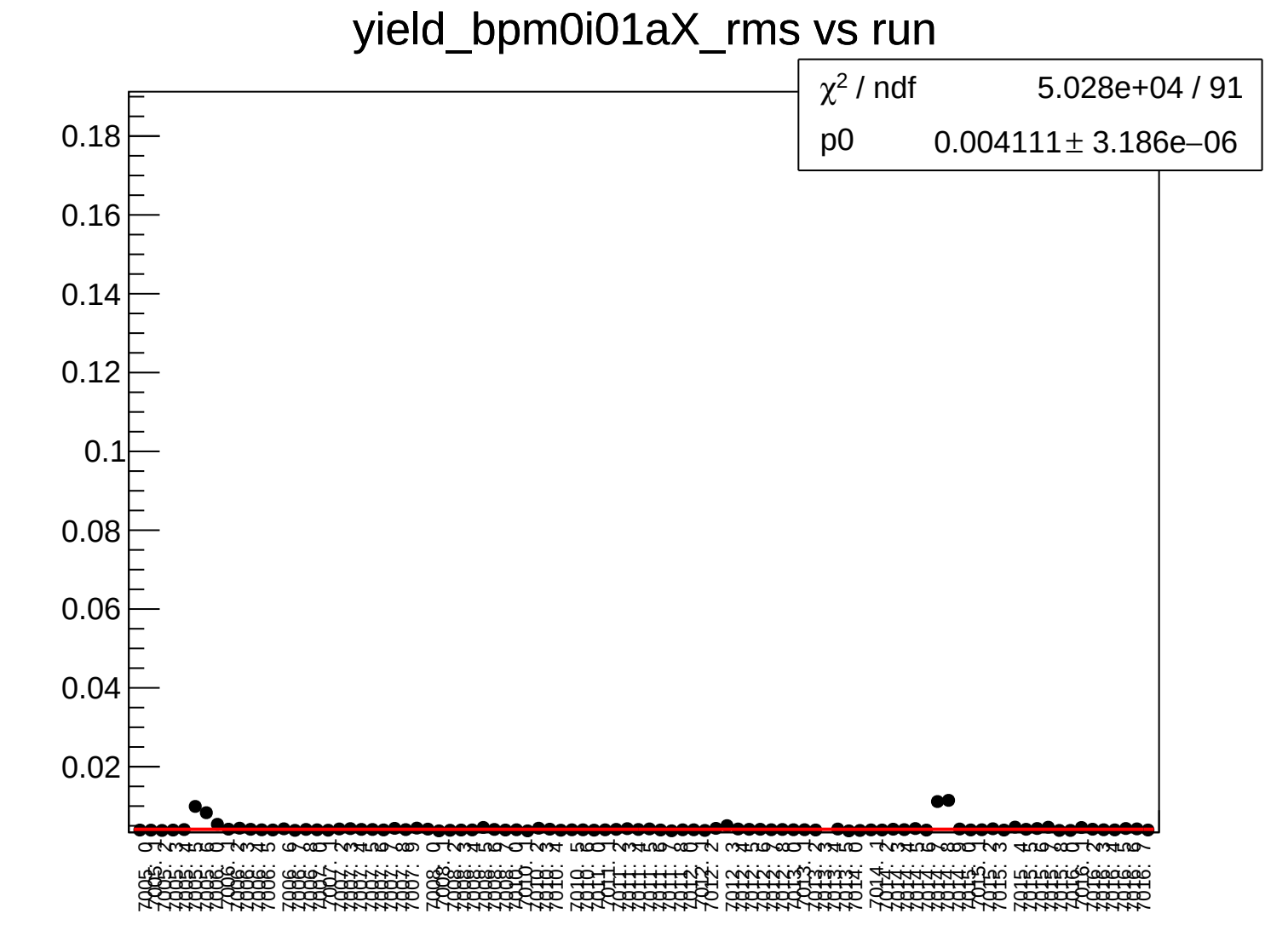

yield_bpm0i01X_mean vs run
χ² / ndf 1.008e+09 / 91
p0 −0.7594 ± 7.516e−06
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
−1
pull
Entries 92
Mean −2973
Std Dev 0
6000
4000
2000
0
−2000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

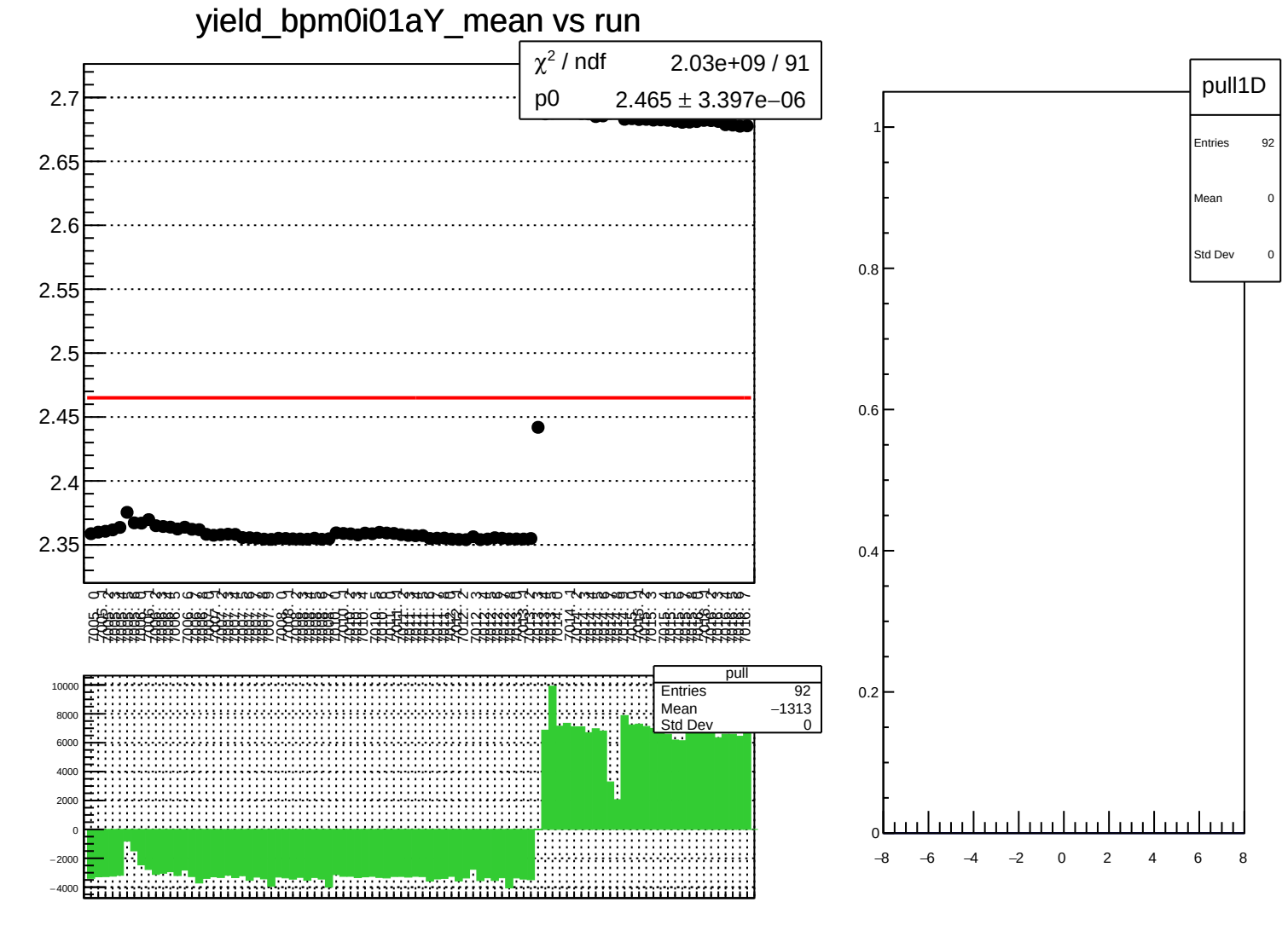

yield_bpm0i01X_rms vs run
χ² / ndf 3.821e+04 / 91
p0 0.006883 ± 5.315e−06
0.25
0.2
0.15
0.1
0.05

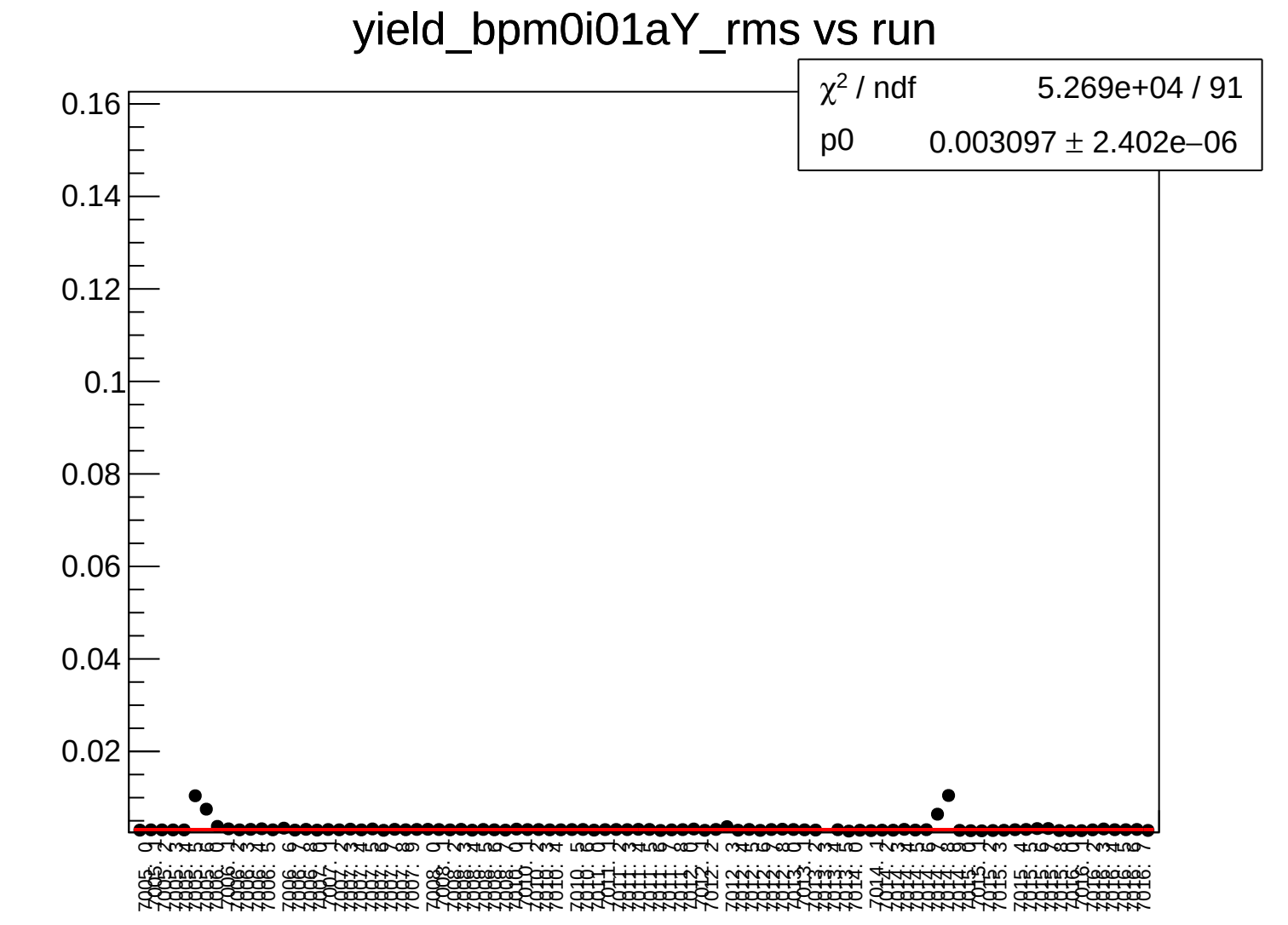

yield_bpm0i01Y_mean vs run
χ² / ndf 7.178e+09 / 91
p0 0.3959 ± 2.594e−06
0.7
0.6
0.5
0.4
0.3
0.2
pull
Entries 92
Mean −1047
Std Dev 0
15000
10000
5000
0
−5000
−10000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

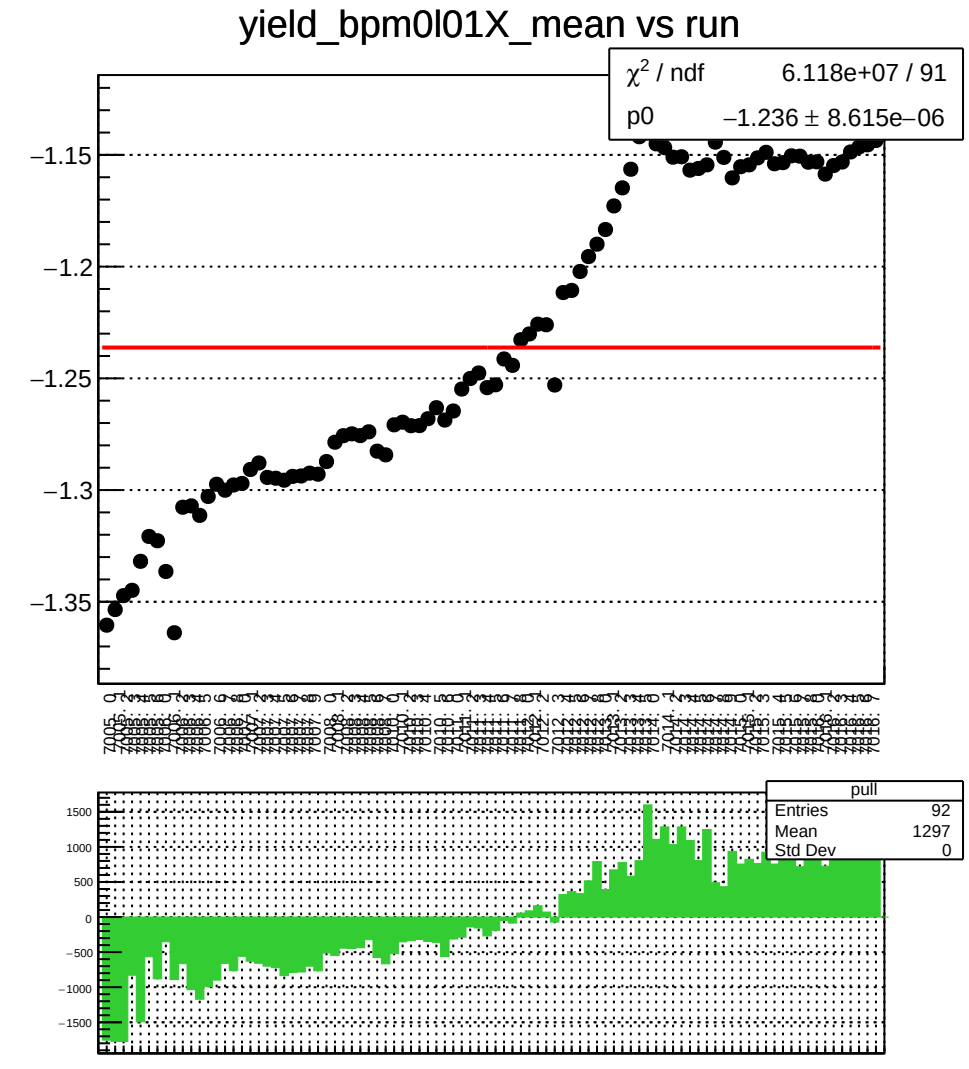

yield_bpm0i01Y_rms vs run
χ² / ndf 1e+05 / 91
p0 0.002331 ± 1.834e−06
0.25
0.2
0.15
0.1
0.05

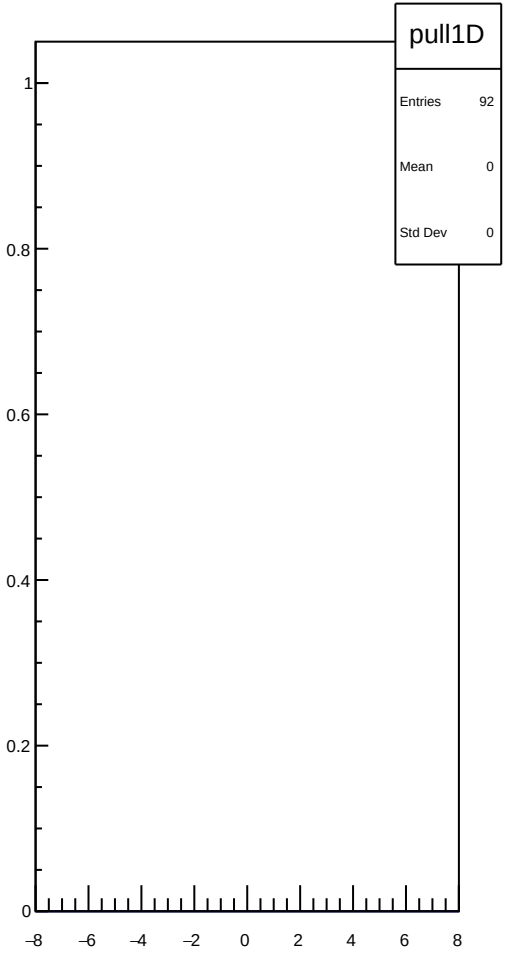

yield_bpm0i01aX_mean vs run
χ² / ndf 1.42e+09 / 91
p0 −2.018 ± 4.505e−06
−1.75
−1.8
−1.85
−1.9
−1.95
−2
−2.05
−2.1
−2.15
pull
Entries 92
Mean 1.432e+04
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i01aX_rms vs run
χ² / ndf 5.028e+04 / 91
p0 0.004111 ± 3.186e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

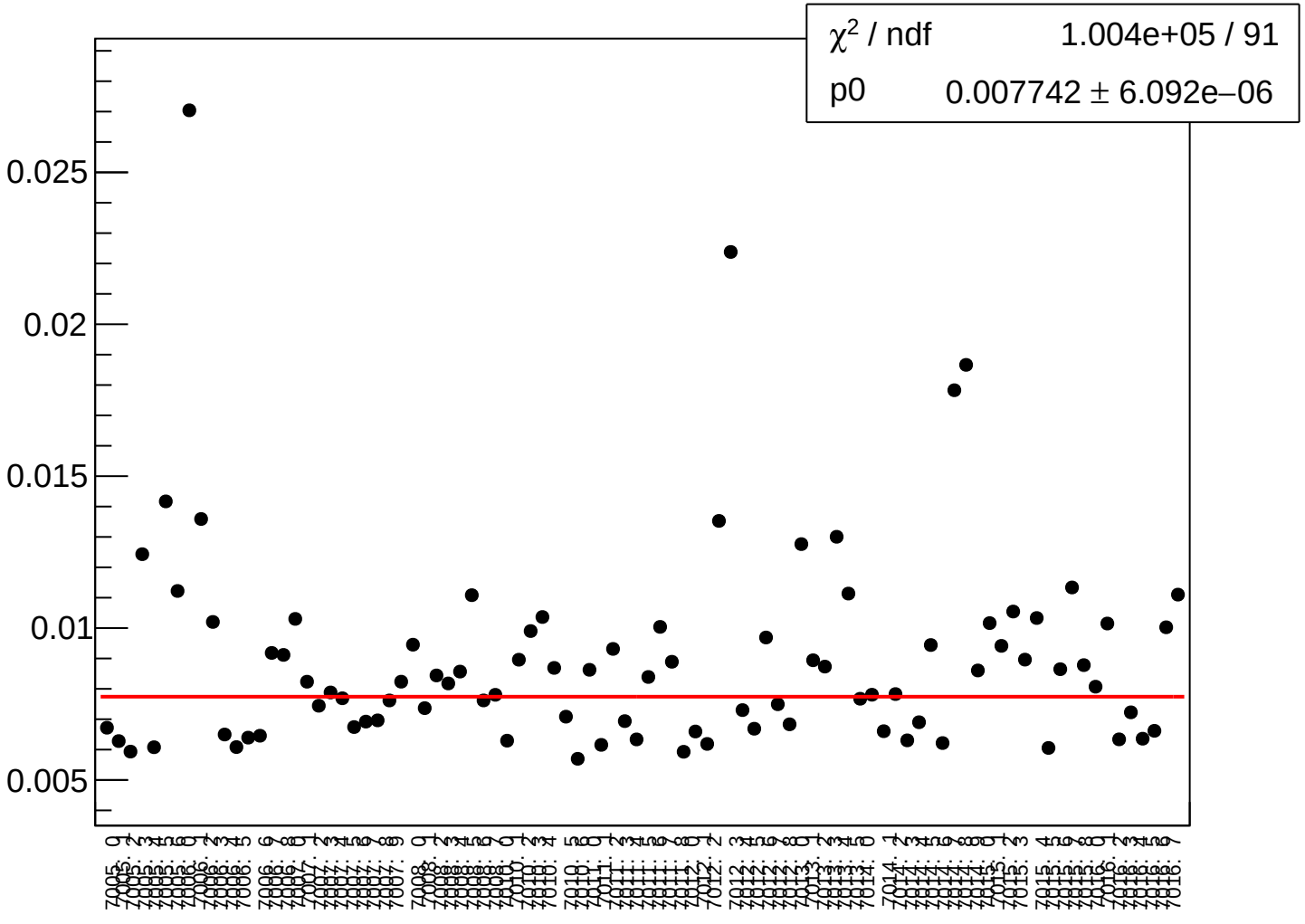

yield_bpm0i01aY_mean vs run
χ² / ndf 2.03e+09 / 91
p0 2.465 ± 3.397e−06
2.7
2.65
2.6
2.55
2.5
2.45
2.4
2.35
pull
Entries 92
Mean −1313
Std Dev 0
10000
8000
6000
4000
2000
0
−2000
−4000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

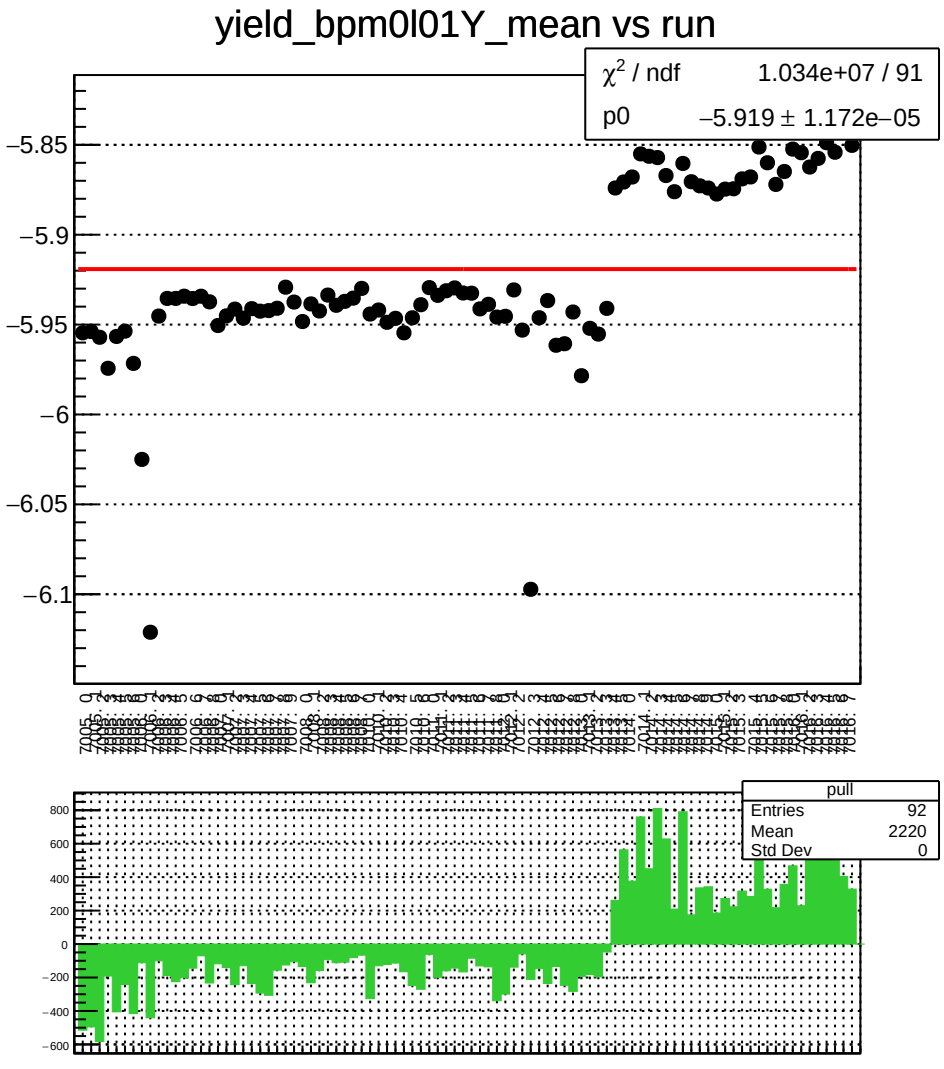

yield_bpm0i01aY_rms vs run
χ² / ndf 5.269e+04 / 91
p0 0.003097 ± 2.402e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

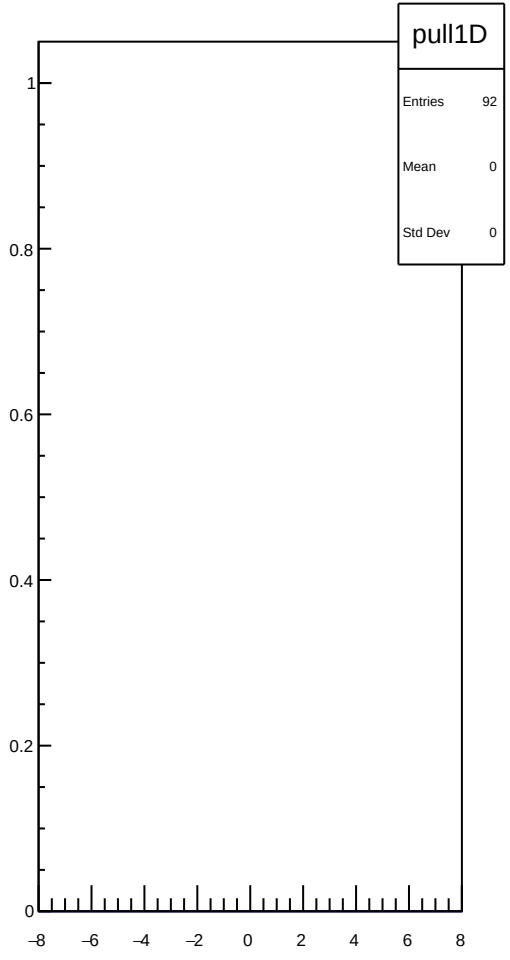

yield_bpm0l01X_mean vs run
χ² / ndf 6.118e+07 / 91
p0 −1.236 ± 8.615e−06
−1.15
−1.2
−1.25
−1.3
−1.35
pull
Entries 92
Mean 1297
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

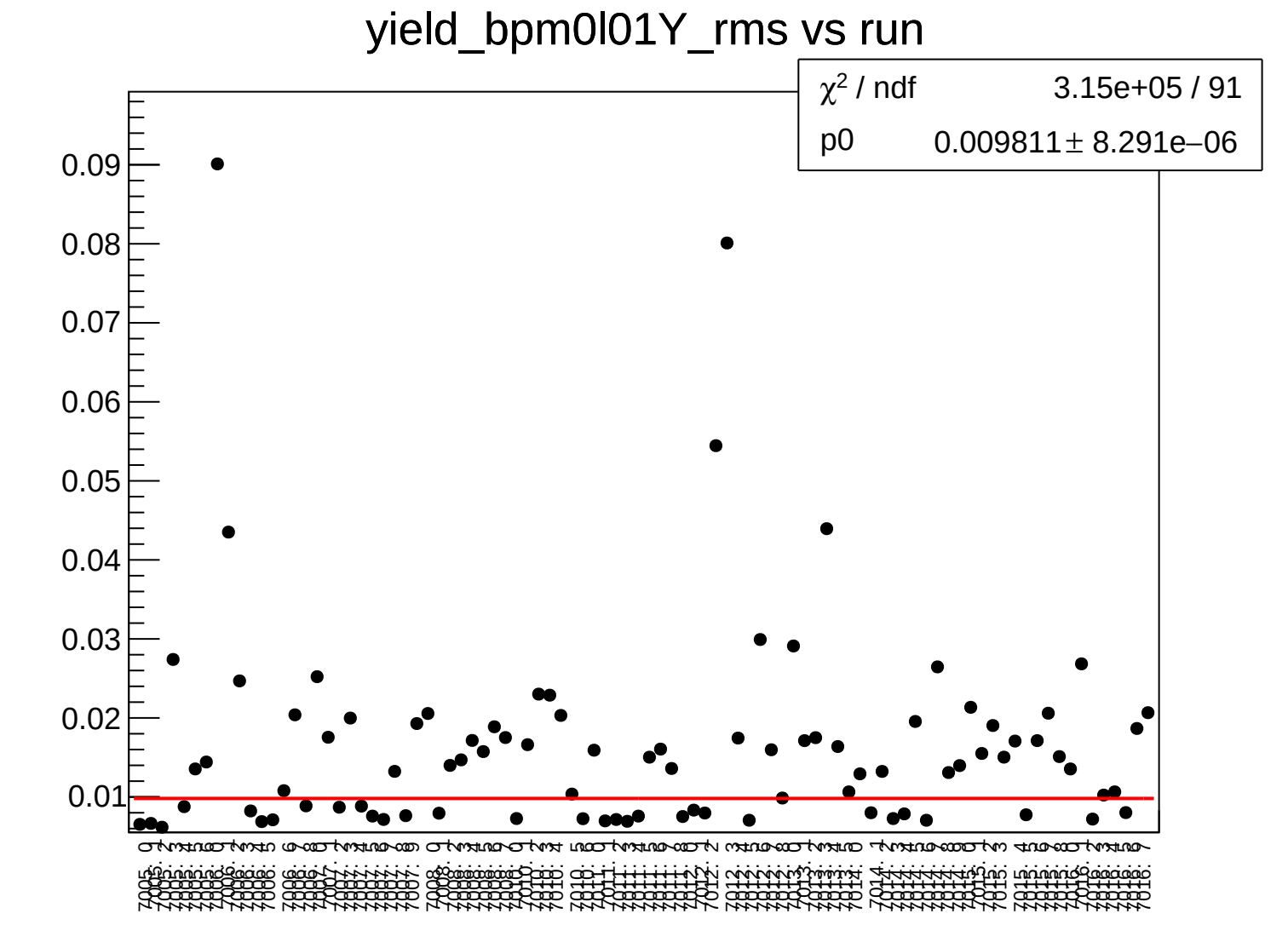

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

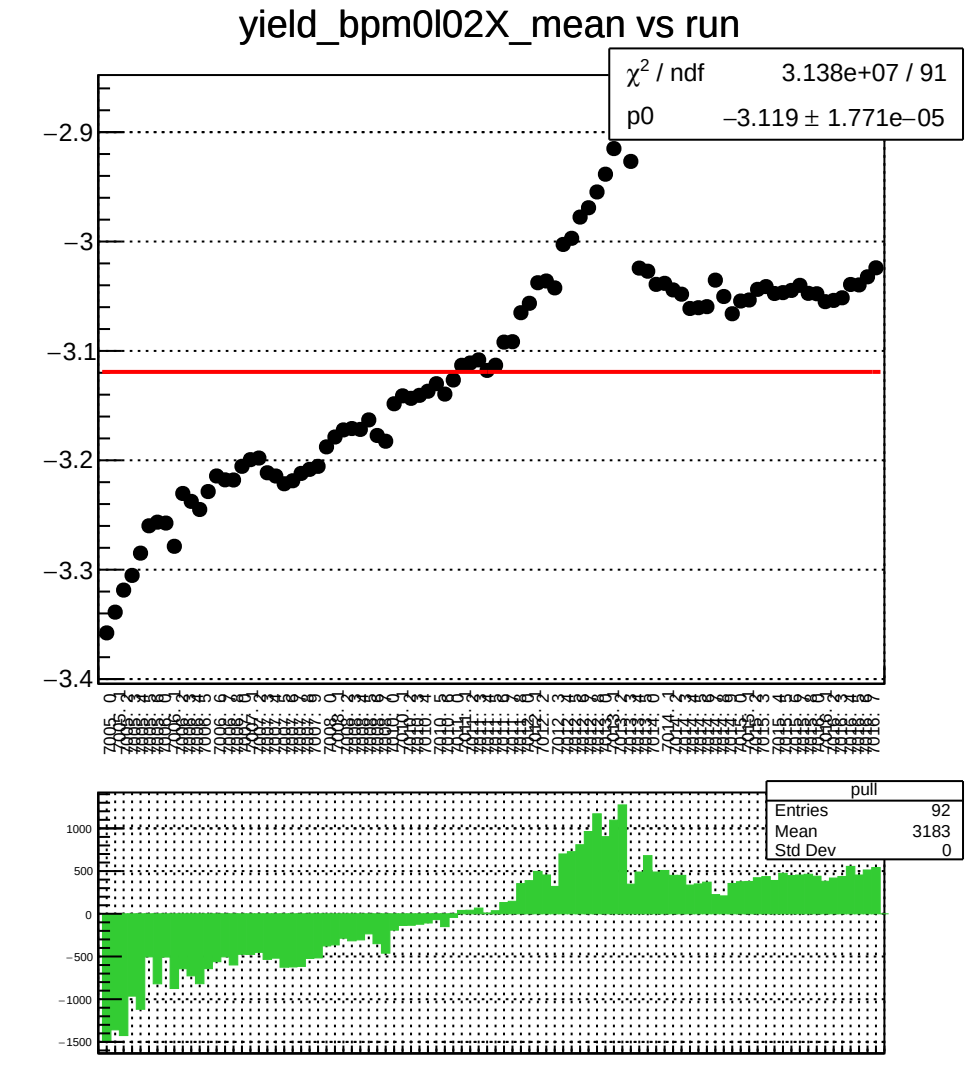
# yield_bpm0l01X_rms vs run

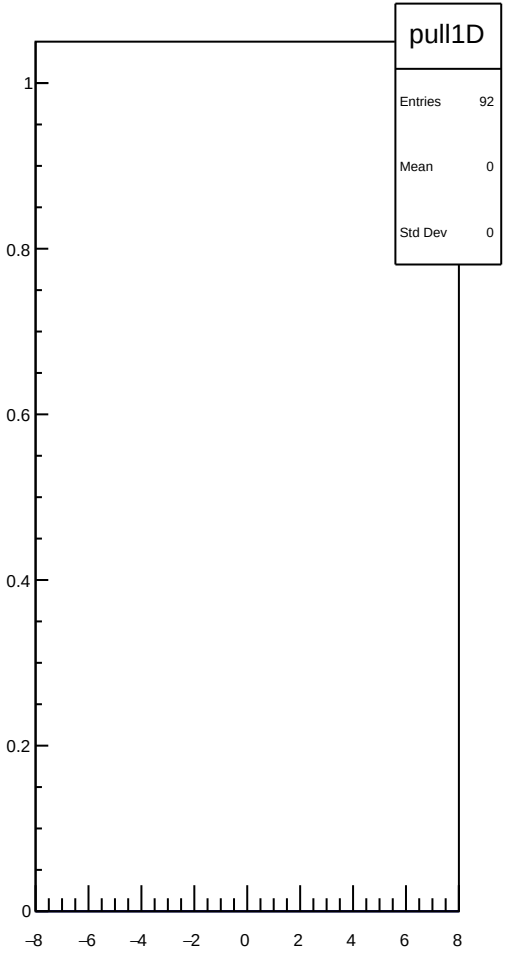


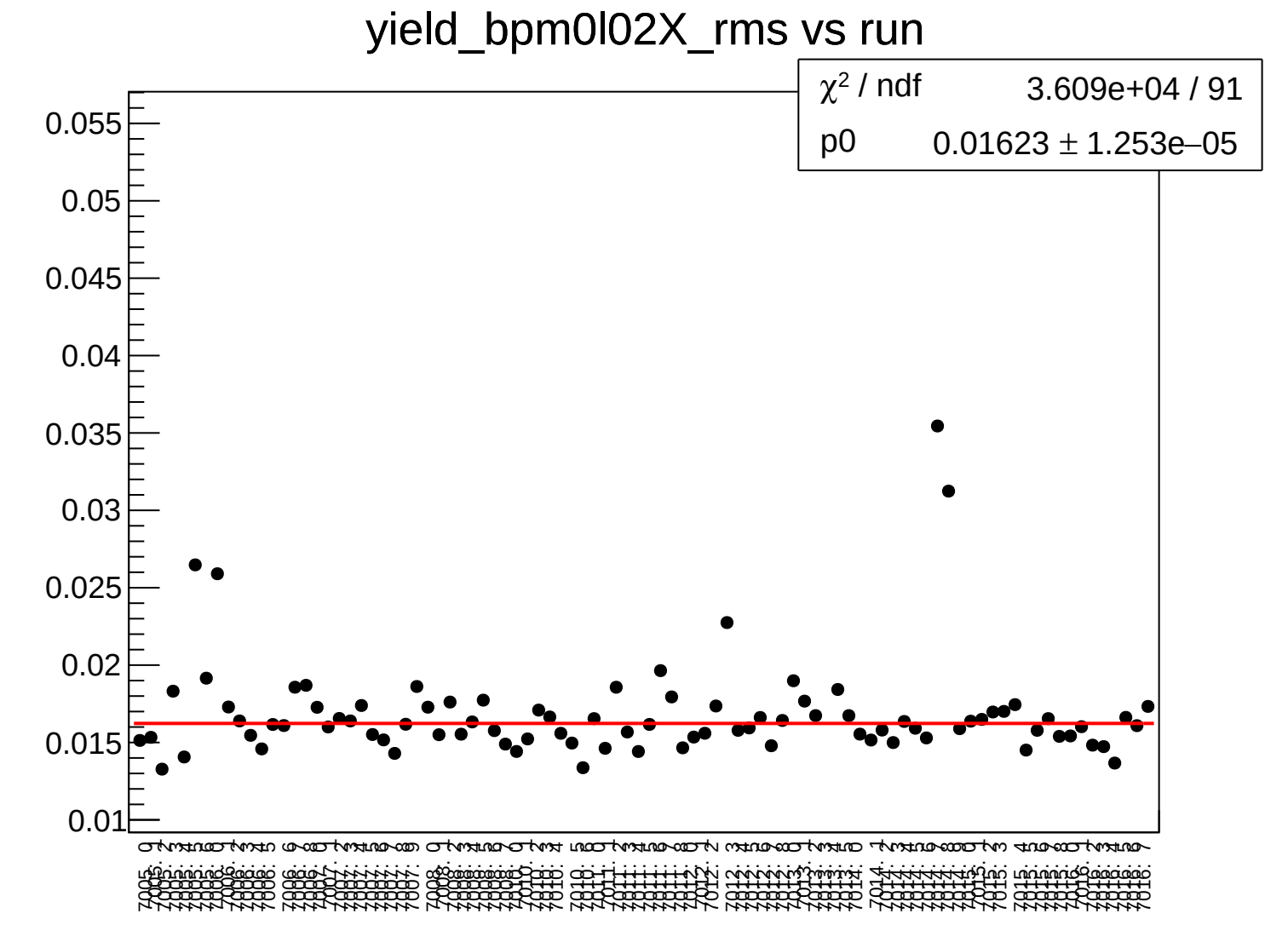

yield_bpm0l01Y_mean vs run
χ² / ndf 1.034e+07 / 91
p0 −5.919 ± 1.172e−05
−5.85
−5.9
−5.95
−6
−6.05
−6.1
pull
Entries 92
Mean 2220
Std Dev 0
800
600
400
200
0
−200
−400
−600

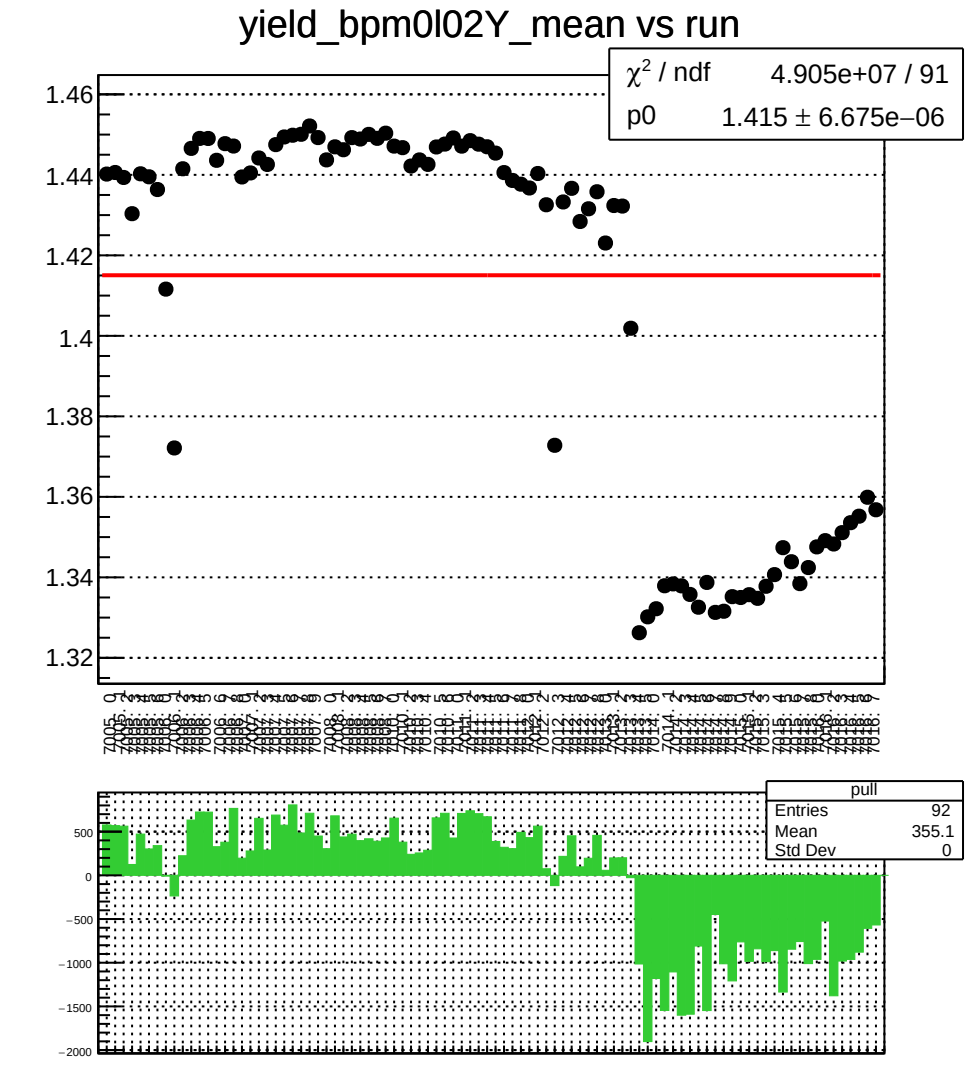

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

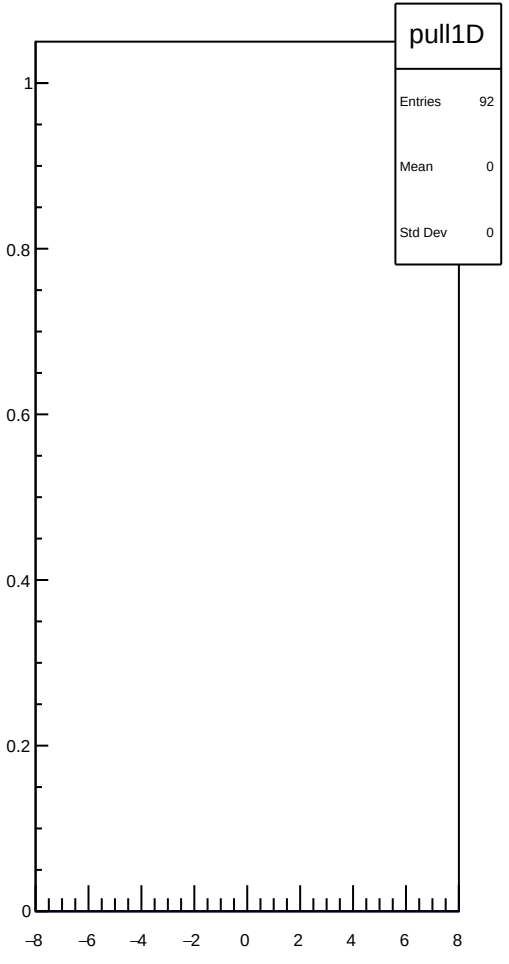

yield_bpm0l01Y_rms vs run
χ² / ndf 3.15e+05 / 91
p0 0.009811 ± 8.291e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

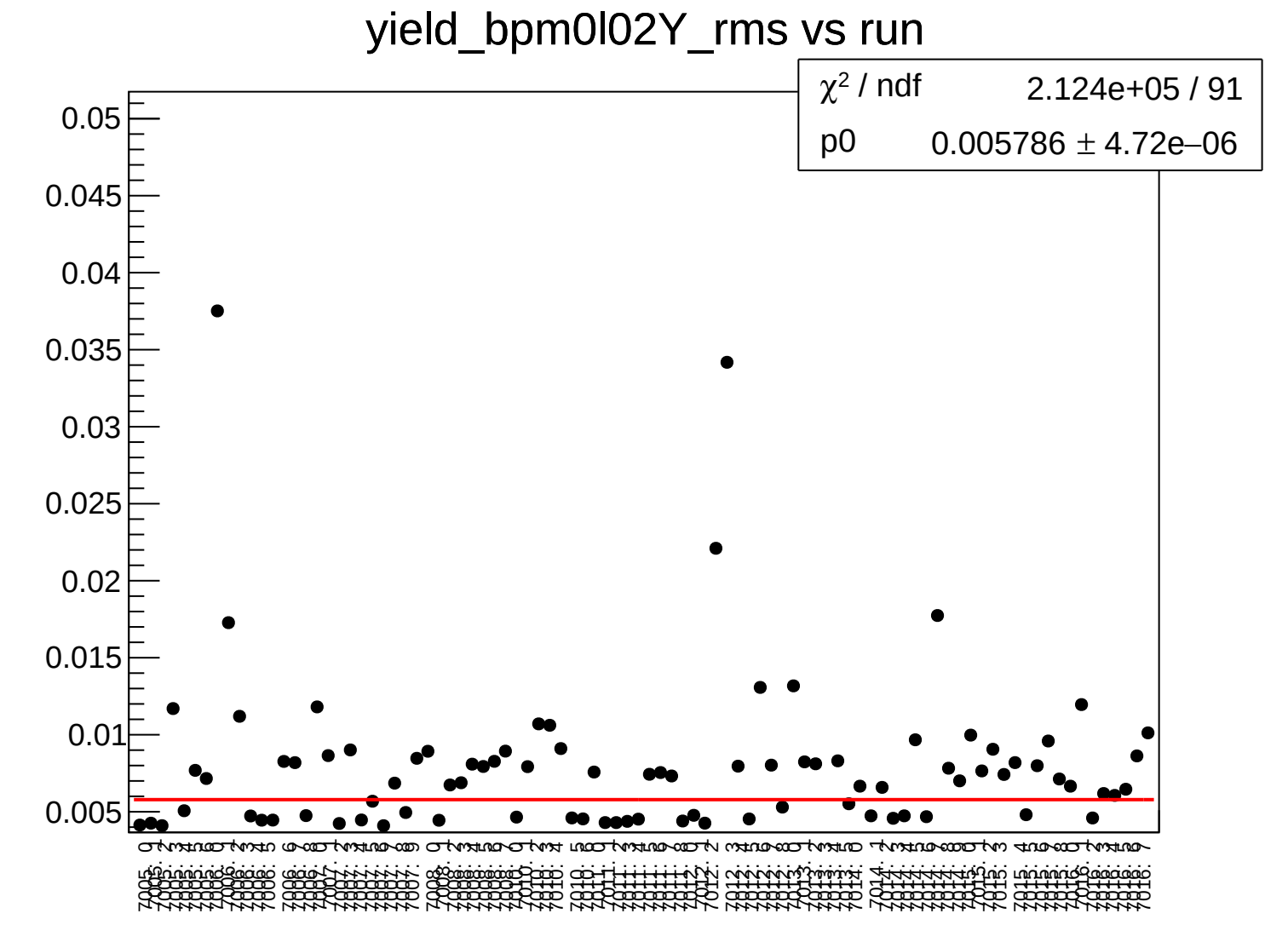

yield_bpm0l02X_mean vs run
χ² / ndf 3.138e+07 / 91
p0 −3.119 ± 1.771e−05
−2.9
−3
−3.1
−3.2
−3.3
−3.4
pull
Entries 92
Mean 3183
Std Dev 0
1000
500
0
−500
−1000
−1500

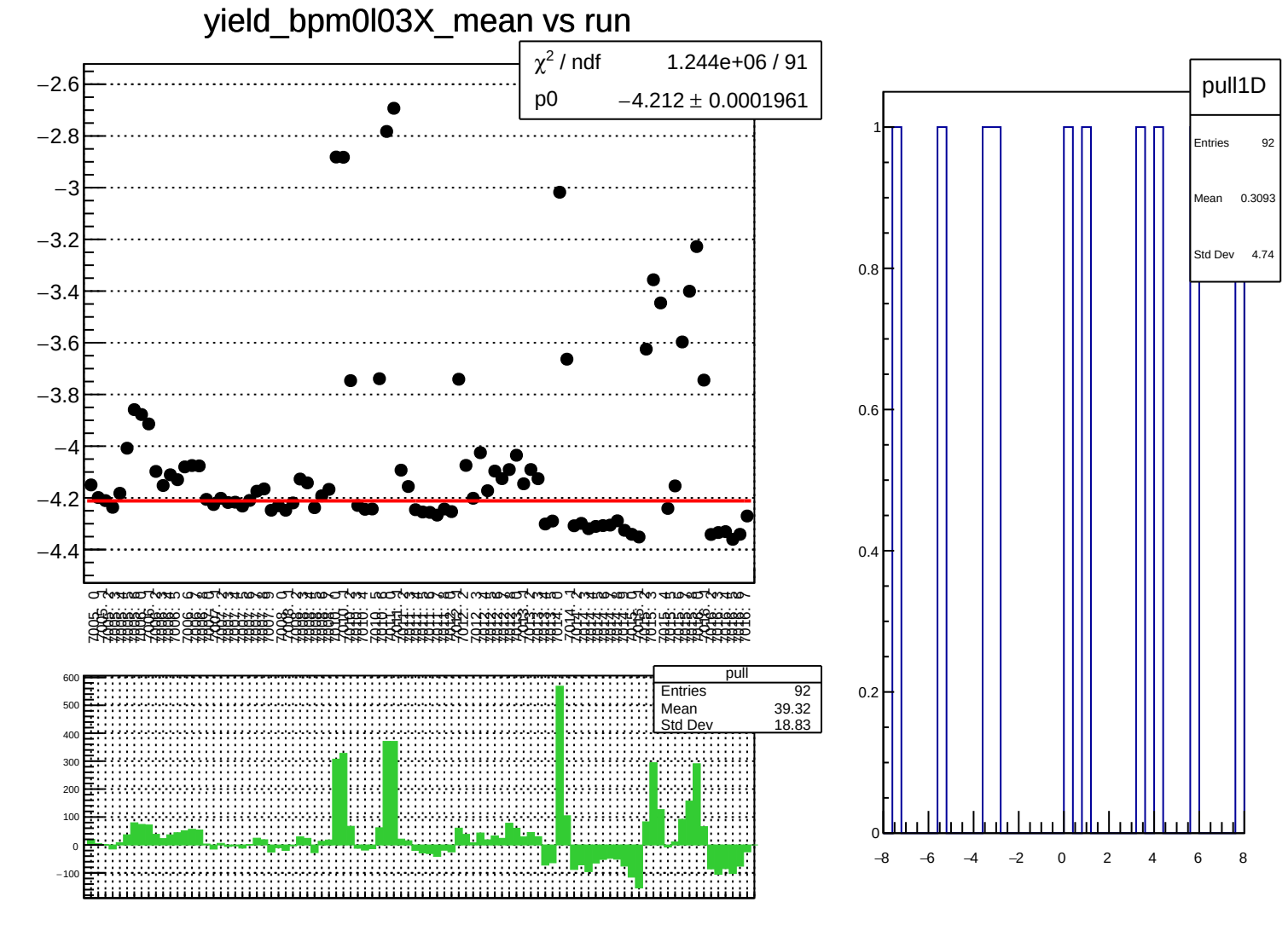

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

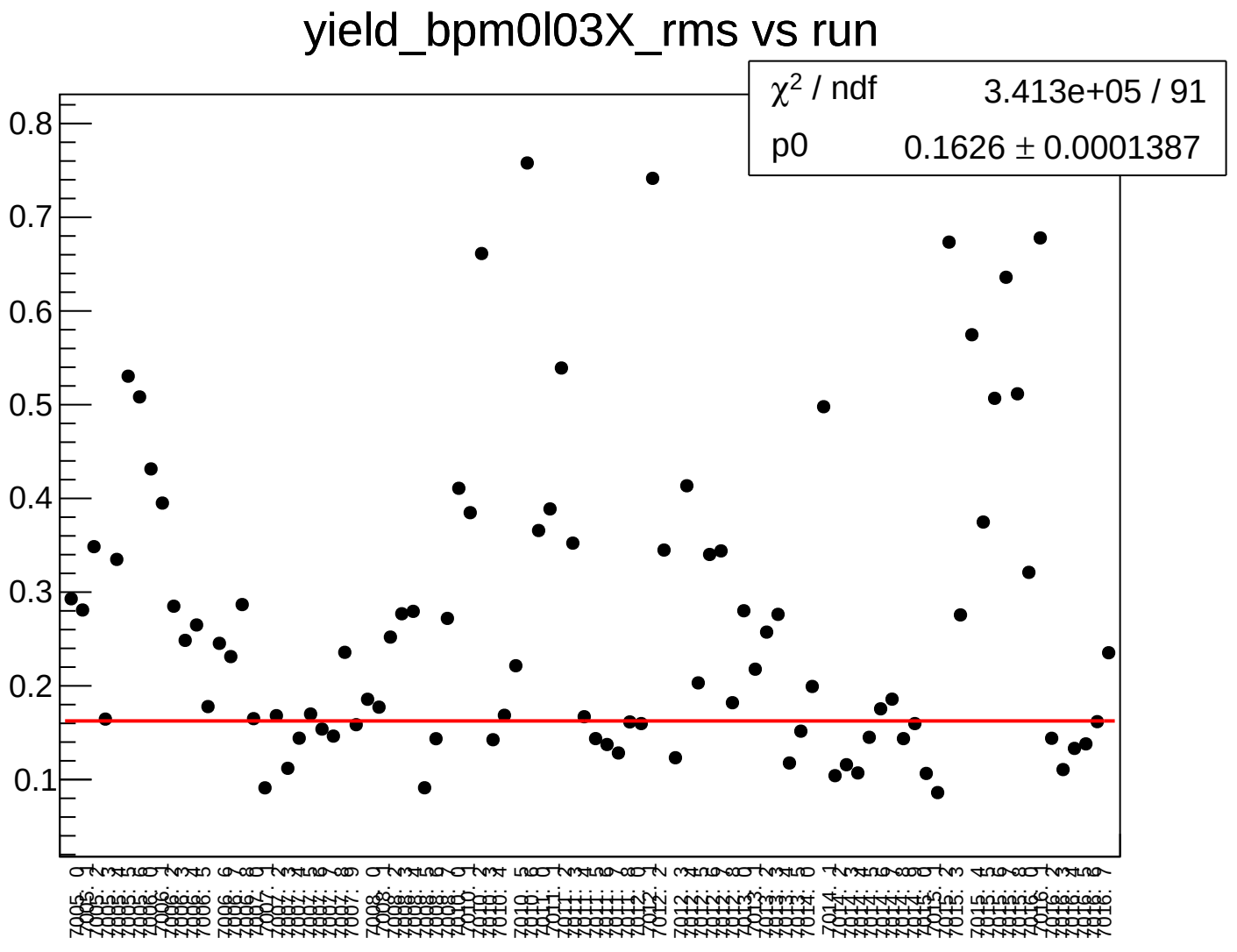

yield_bpm0l02X_rms vs run
χ² / ndf 3.609e+04 / 91
p0 0.01623 ± 1.253e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

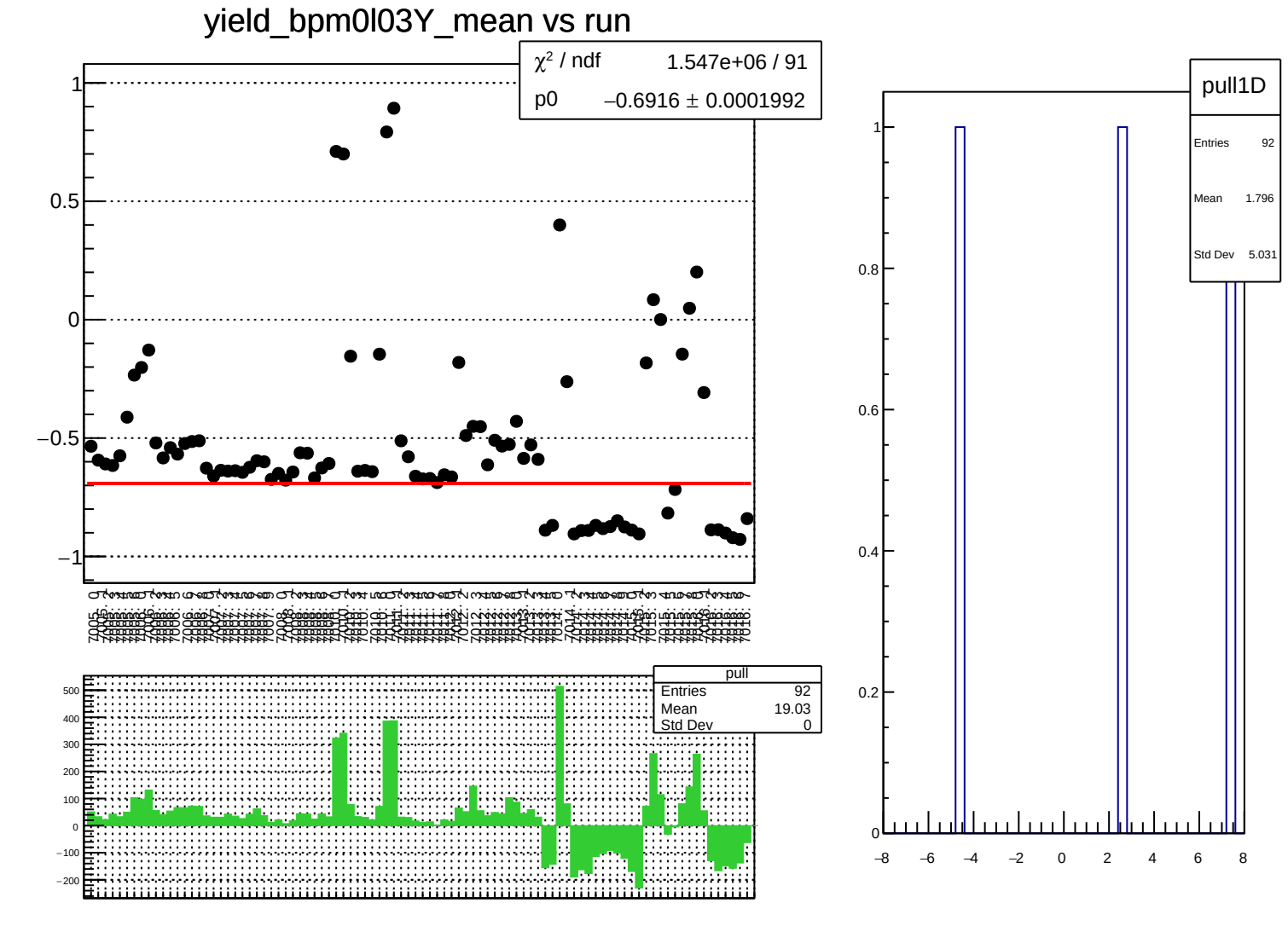

yield_bpm0l02Y_mean vs run
χ² / ndf 4.905e+07 / 91
p0 1.415 ± 6.675e−06
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
pull
Entries 92
Mean 355.1
Std Dev 0
500
0
−500
−1000
−1500
−2000

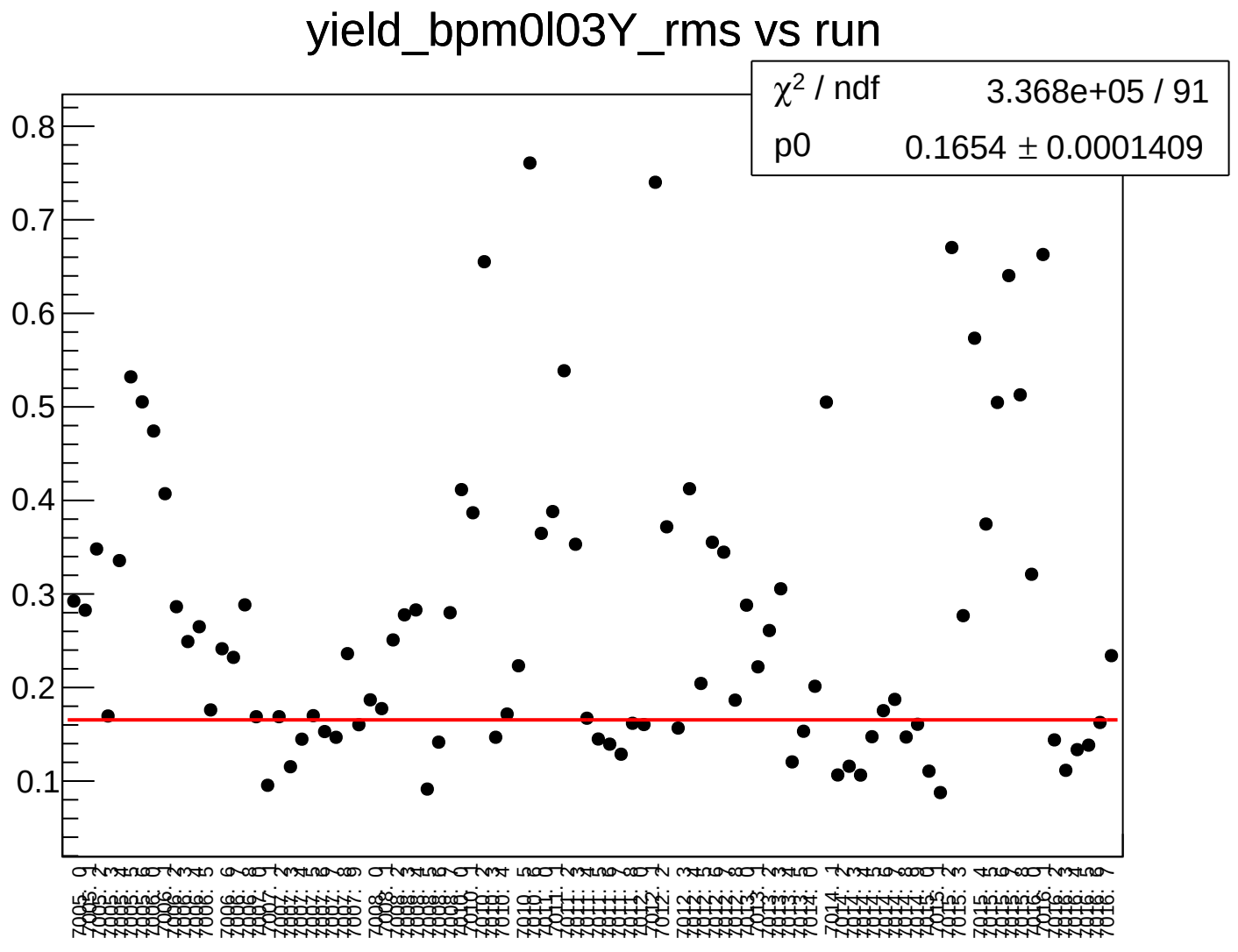

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

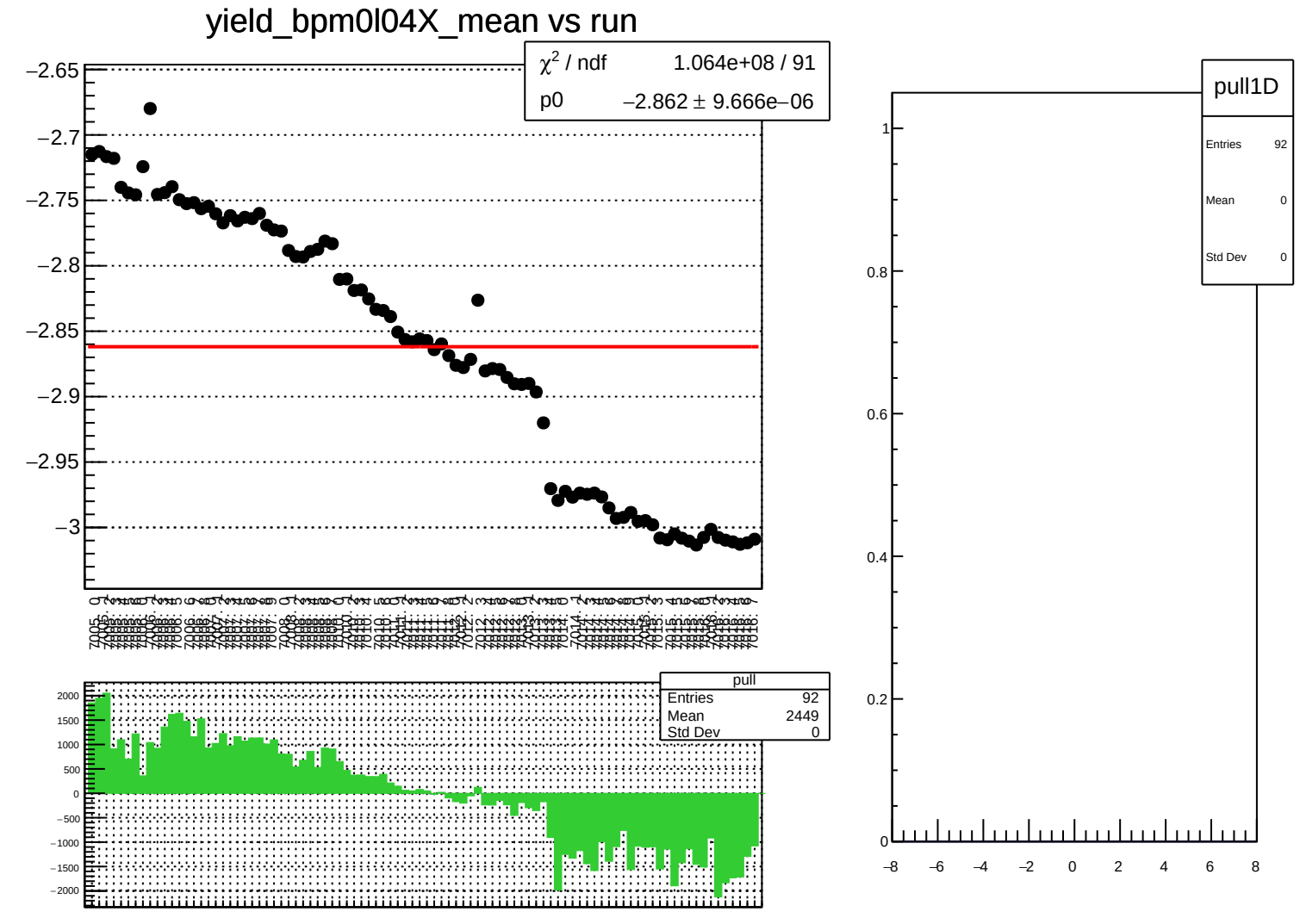

yield_bpm0l02Y_rms vs run
χ² / ndf 2.124e+05 / 91
p0 0.005786 ± 4.72e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

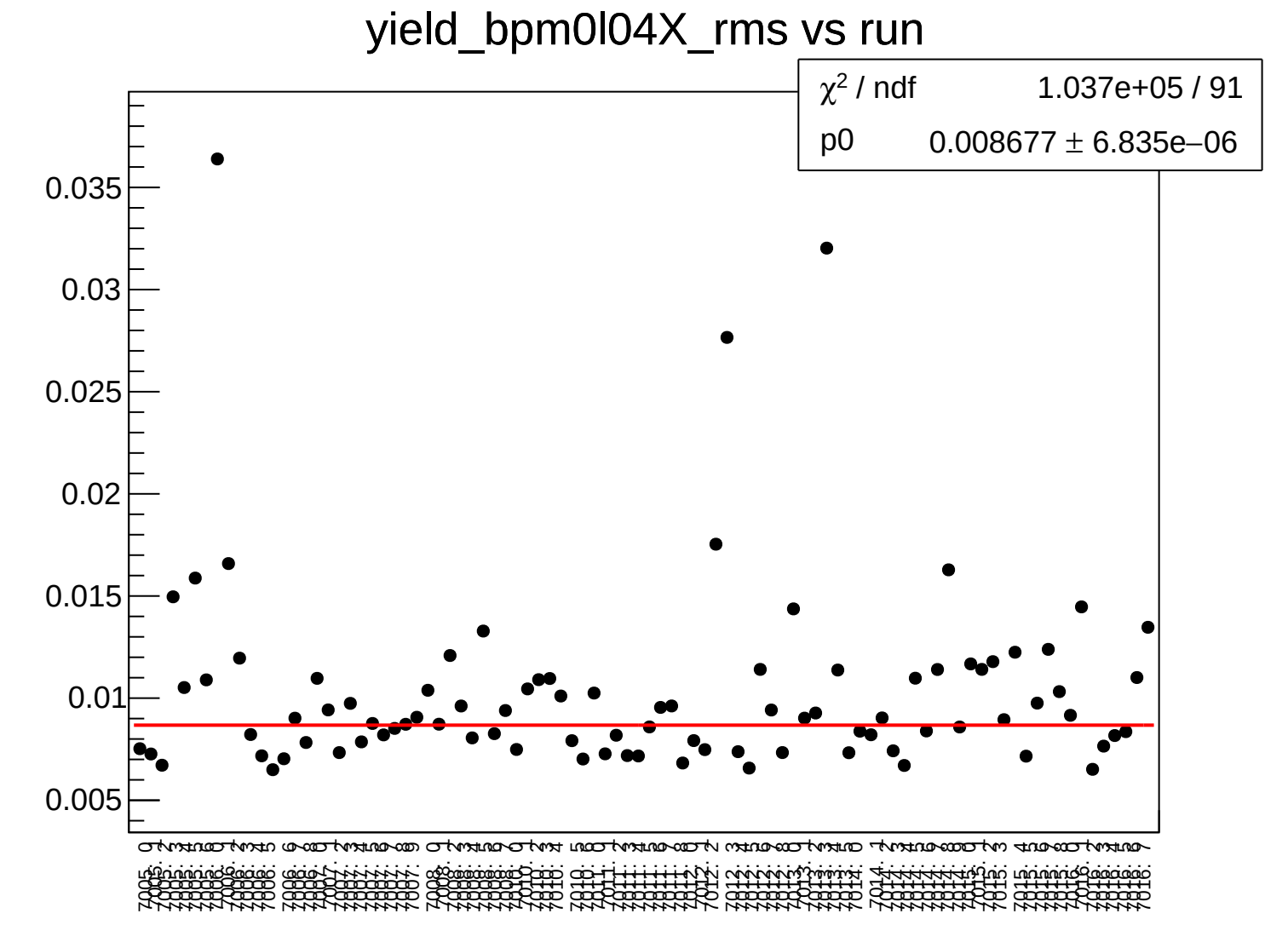

yield_bpm0l03X_mean vs run
χ² / ndf 1.244e+06 / 91
p0 −4.212 ± 0.0001961
pull
Entries 92
Mean 39.32
Std Dev 18.83
pull1D
Entries 92
Mean 0.3093
Std Dev 4.74

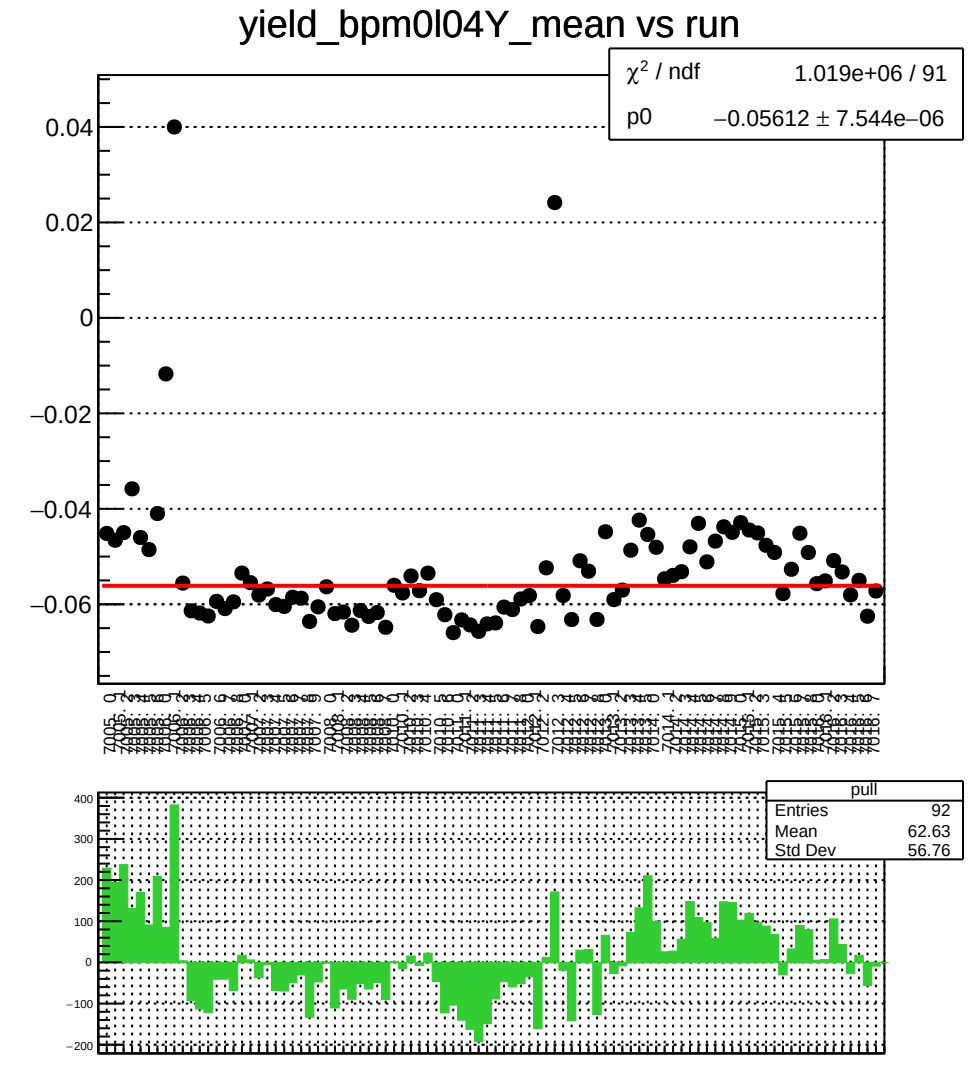

yield_bpm0l03X_rms vs run
χ² / ndf 3.413e+05 / 91
p0 0.1626 ± 0.0001387
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

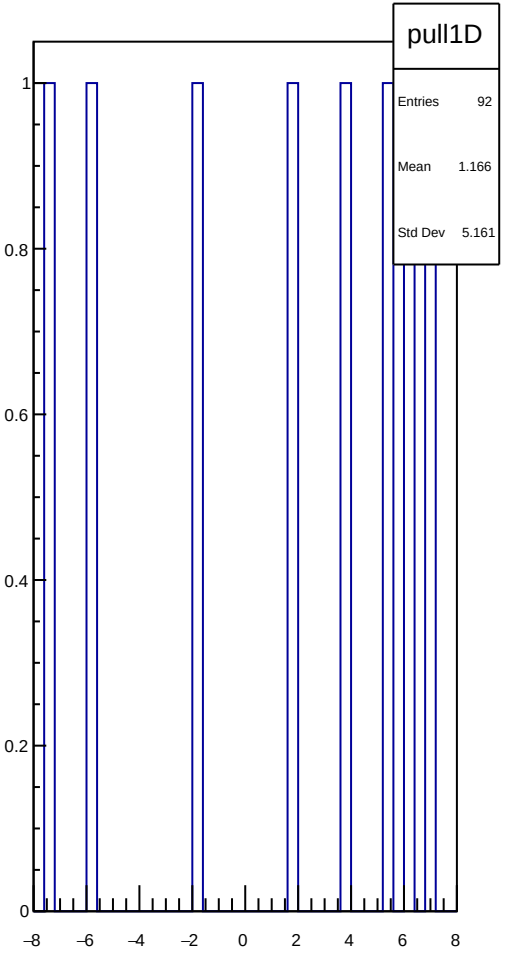

yield_bpm0l03Y_mean vs run
χ² / ndf 1.547e+06 / 91
p0 −0.6916 ± 0.0001992
pull
Entries 92
Mean 19.03
Std Dev 0
pull1D
Entries 92
Mean 1.796
Std Dev 5.031

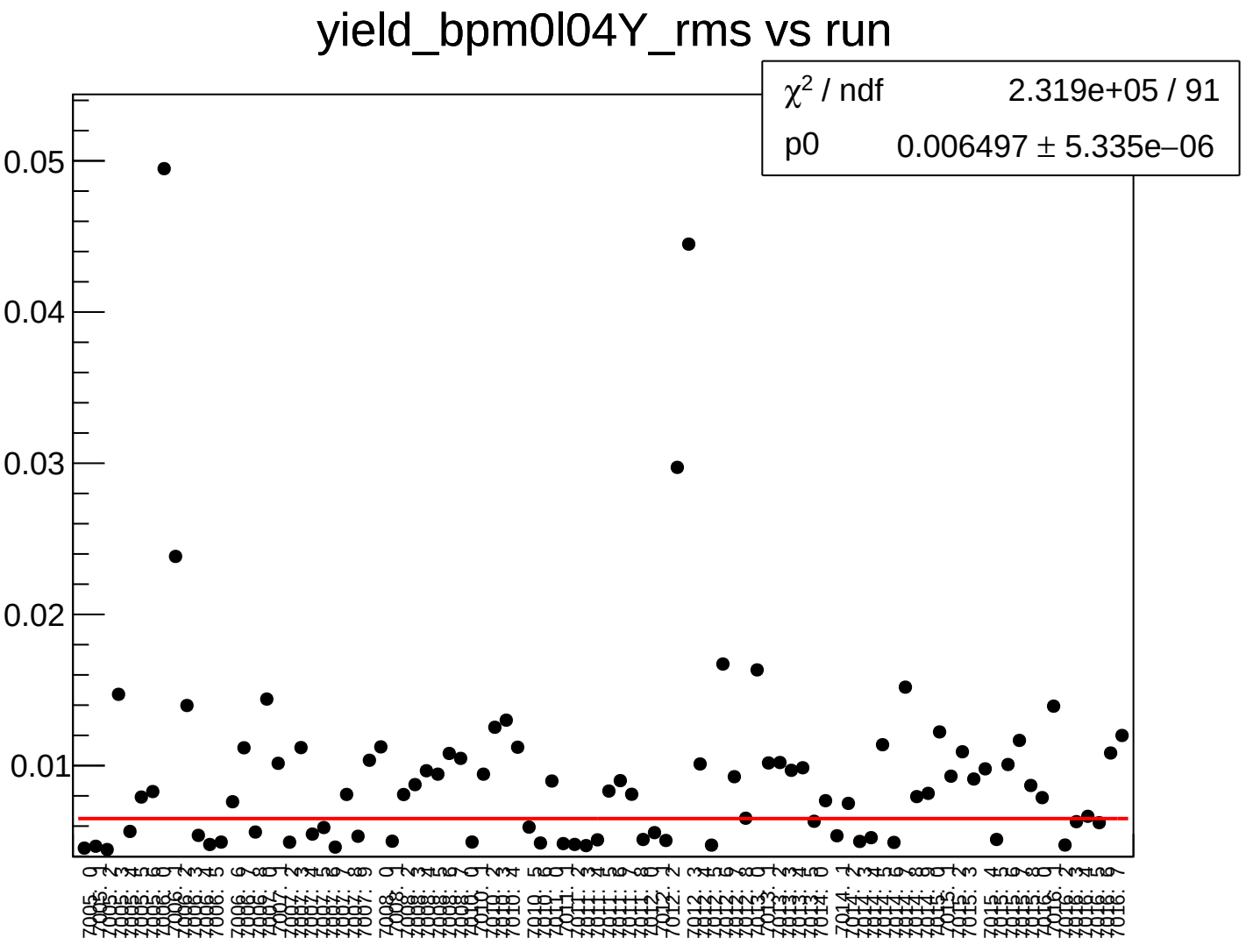

yield_bpm0l03Y_rms vs run
χ² / ndf 3.368e+05 / 91
p0 0.1654 ± 0.0001409
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

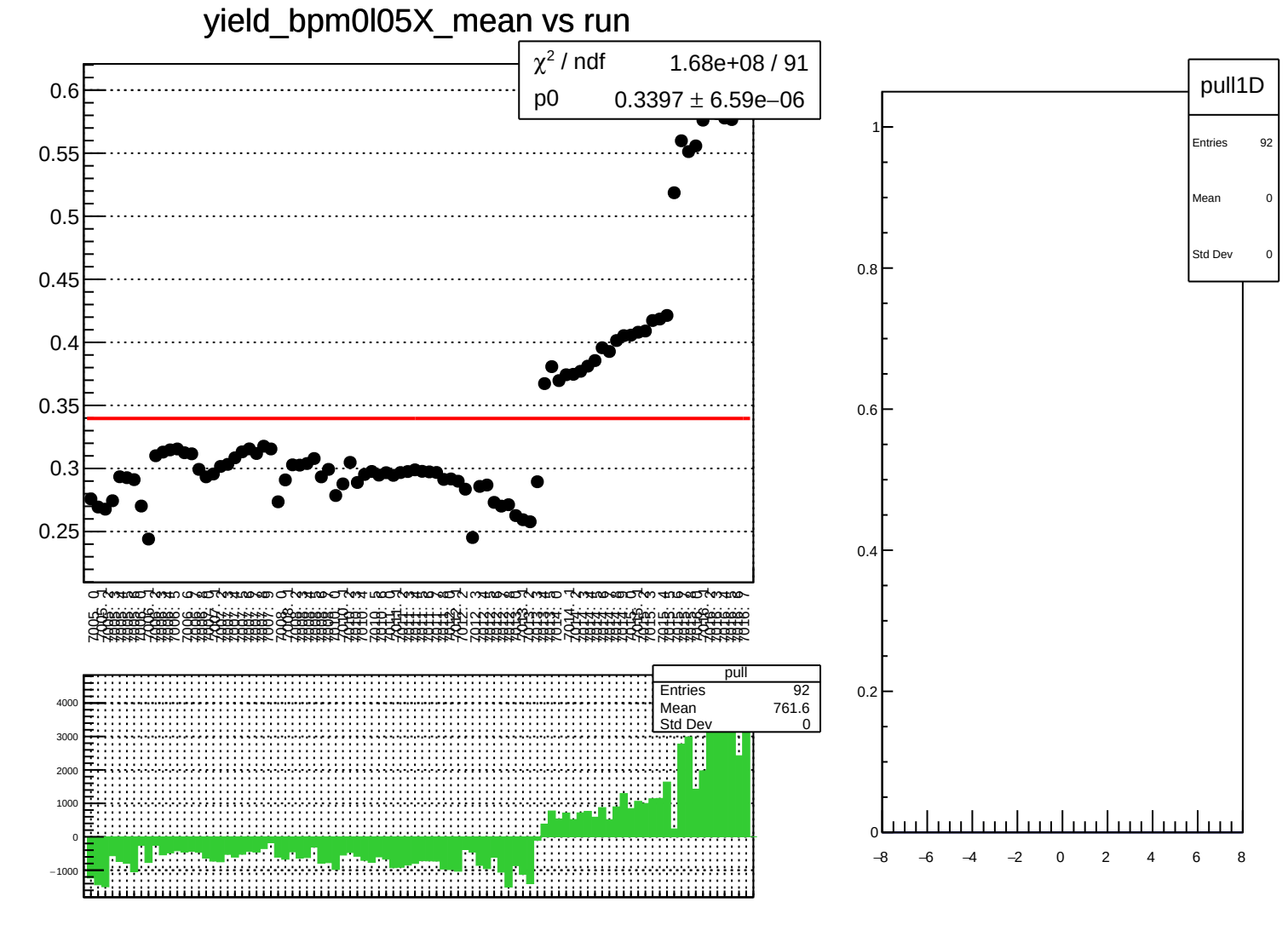

yield_bpm0l04X_mean vs run
χ² / ndf 1.064e+08 / 91
p0 −2.862 ± 9.666e−06
−2.65
−2.7
−2.75
−2.8
−2.85
−2.9
−2.95
−3
pull
Entries 92
Mean 2449
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

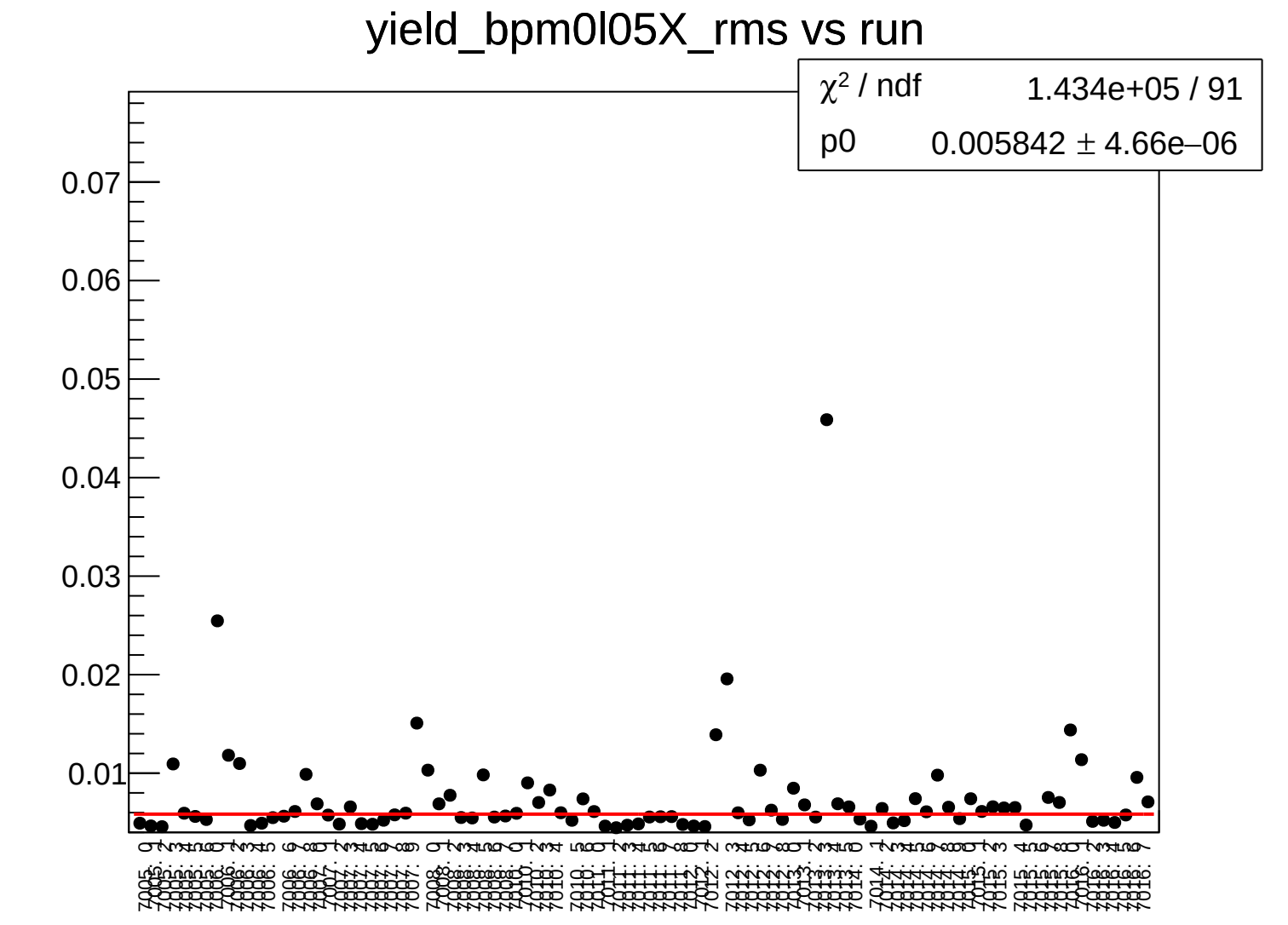

yield_bpm0l04X_rms vs run
χ² / ndf 1.037e+05 / 91
p0 0.008677 ± 6.835e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

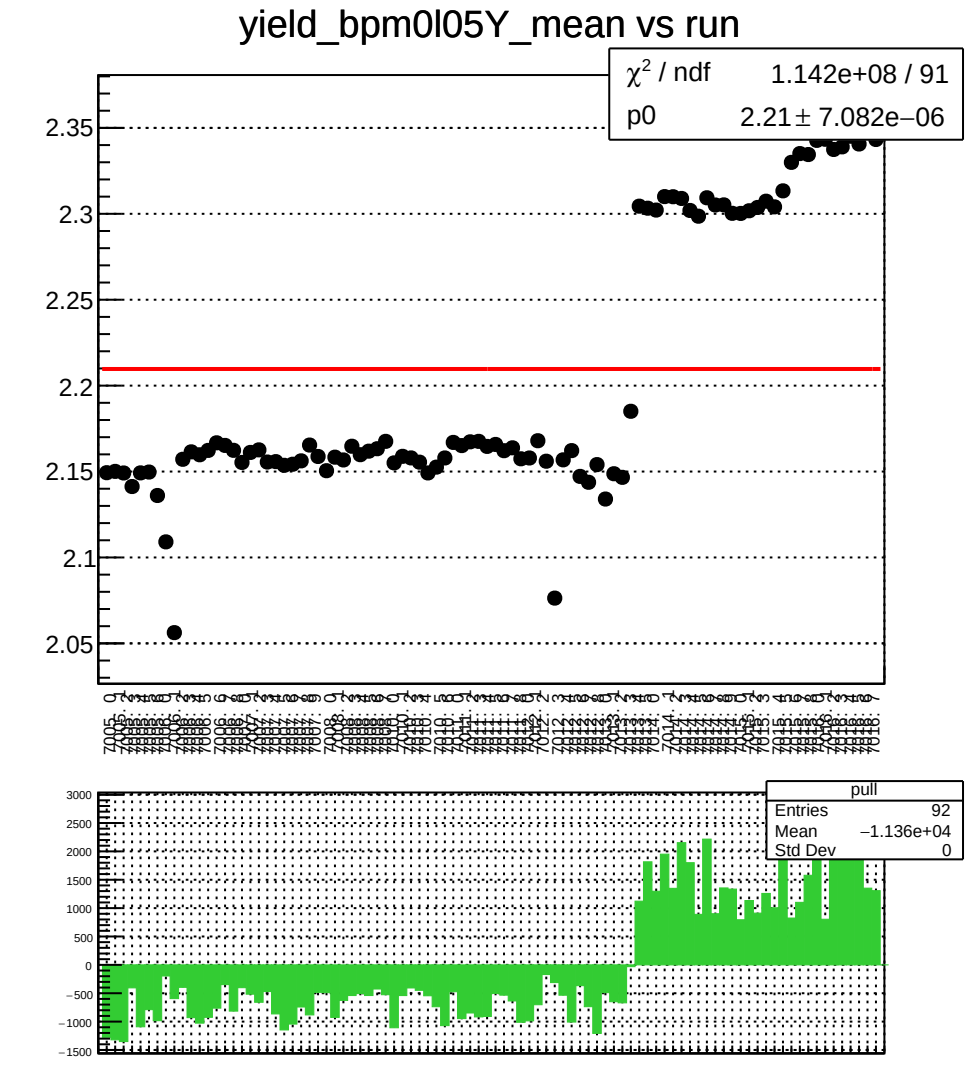

yield_bpm0l04Y_mean vs run
χ² / ndf 1.019e+06 / 91
p0 −0.05612 ± 7.544e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean 62.63
Std Dev 56.76
400
300
200
100
0
−100
−200

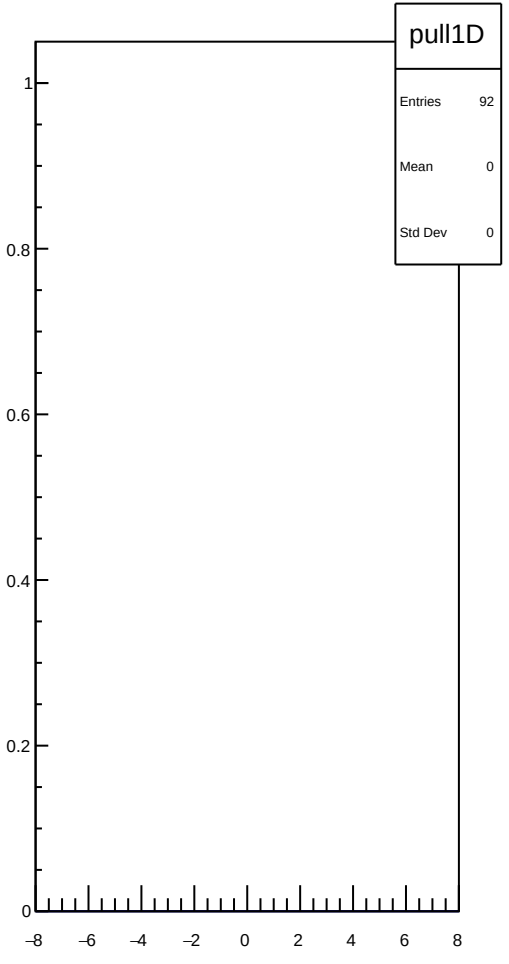

pull1D
Entries 92
Mean 1.166
Std Dev 5.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

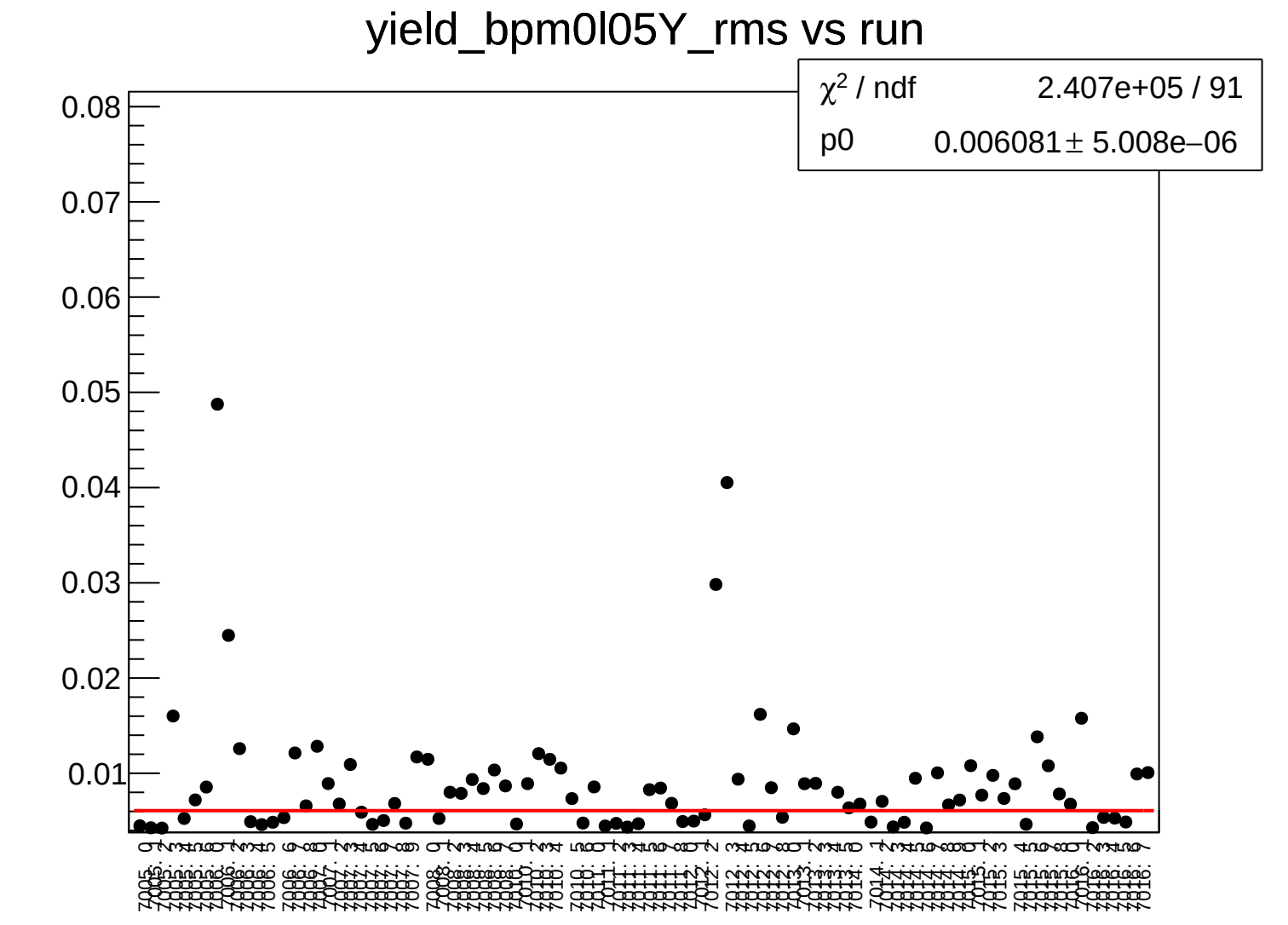

yield_bpm0l04Y_rms vs run
χ² / ndf 2.319e+05 / 91
p0 0.006497 ± 5.335e−06
0.05
0.04
0.03
0.02
0.01

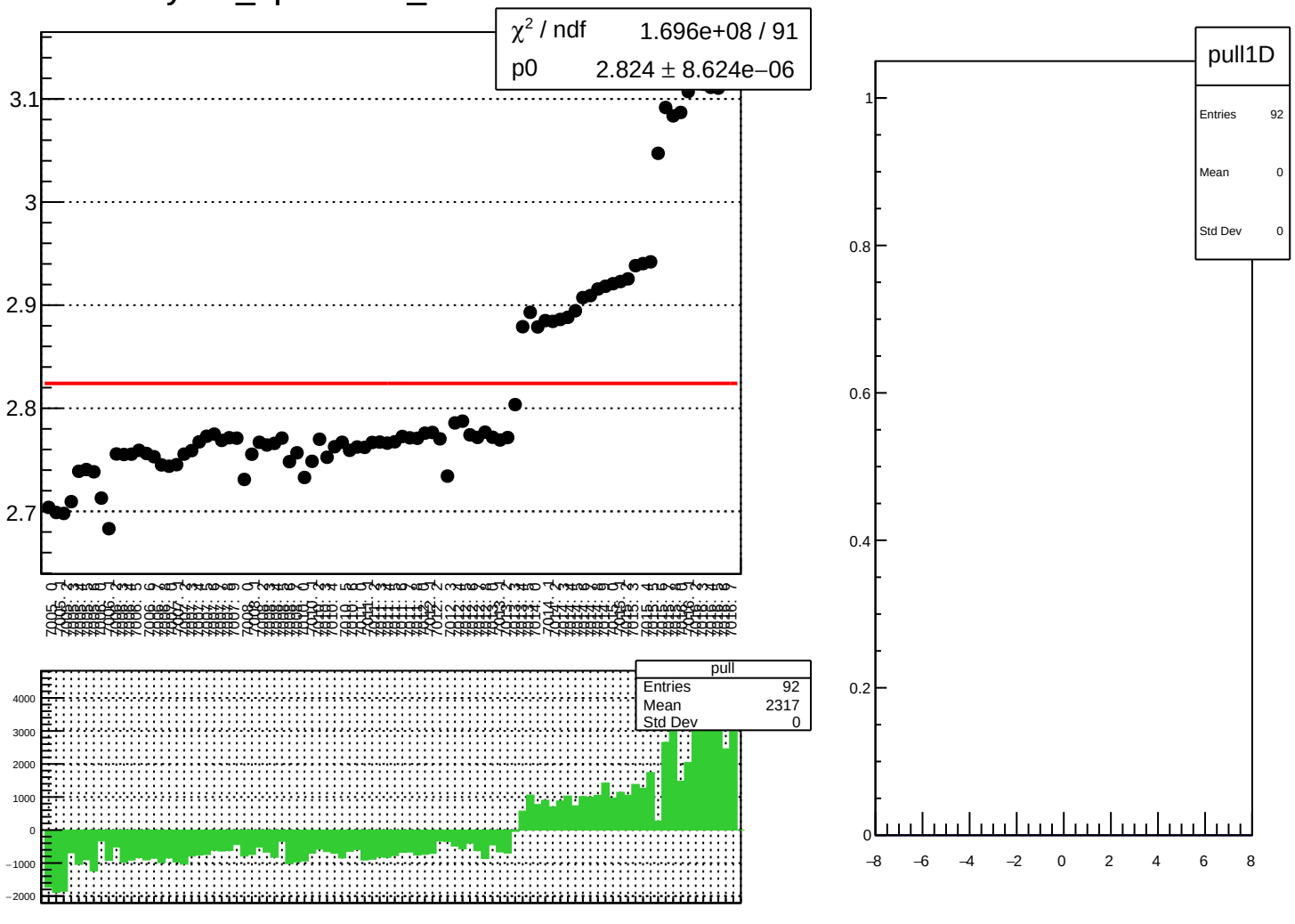

yield_bpm0l05X_mean vs run
χ² / ndf 1.68e+08 / 91
p0 0.3397 ± 6.59e−06
pull
Entries 92
Mean 761.6
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0

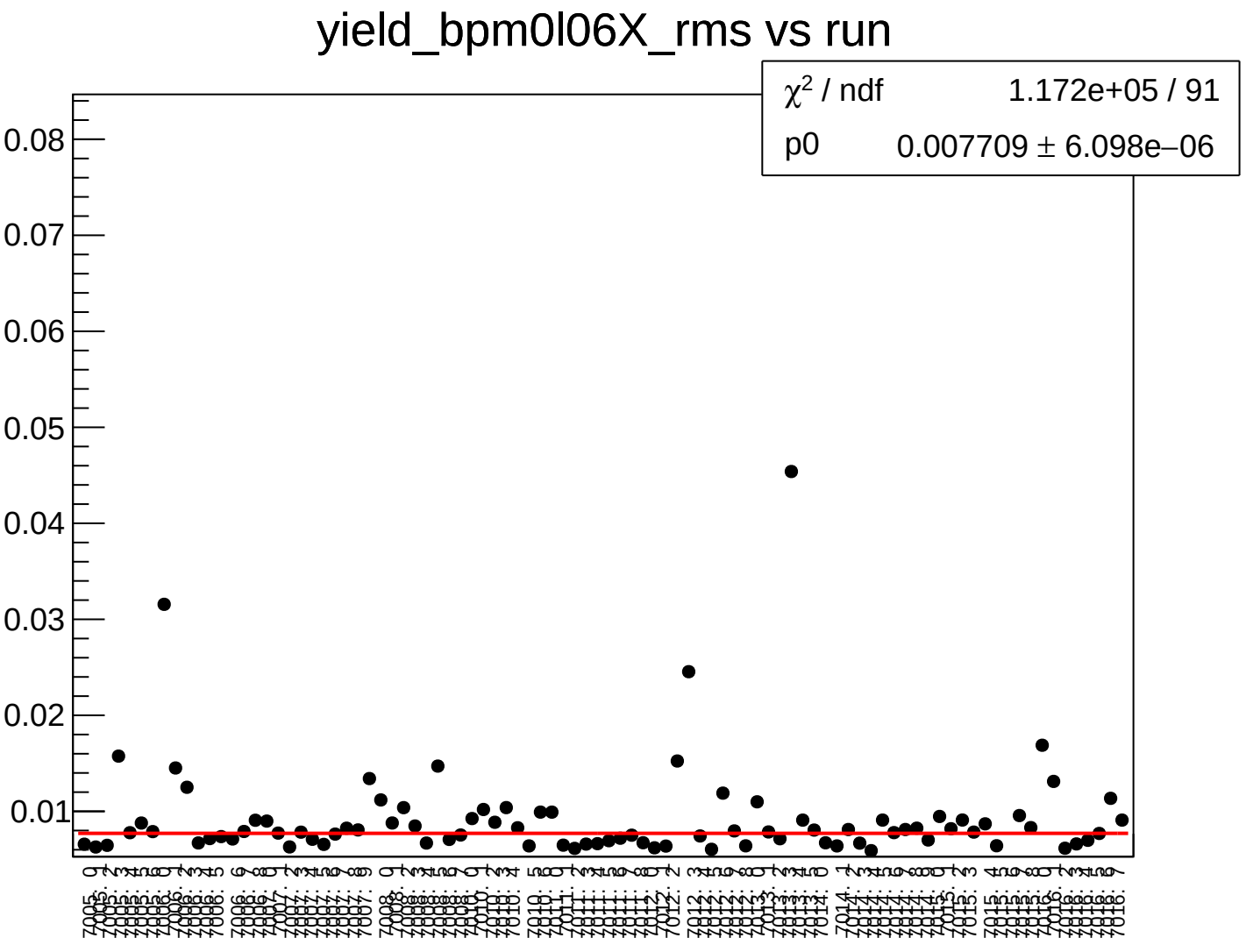

yield_bpm0l05X_rms vs run
χ² / ndf 1.434e+05 / 91
p0 0.005842 ± 4.66e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

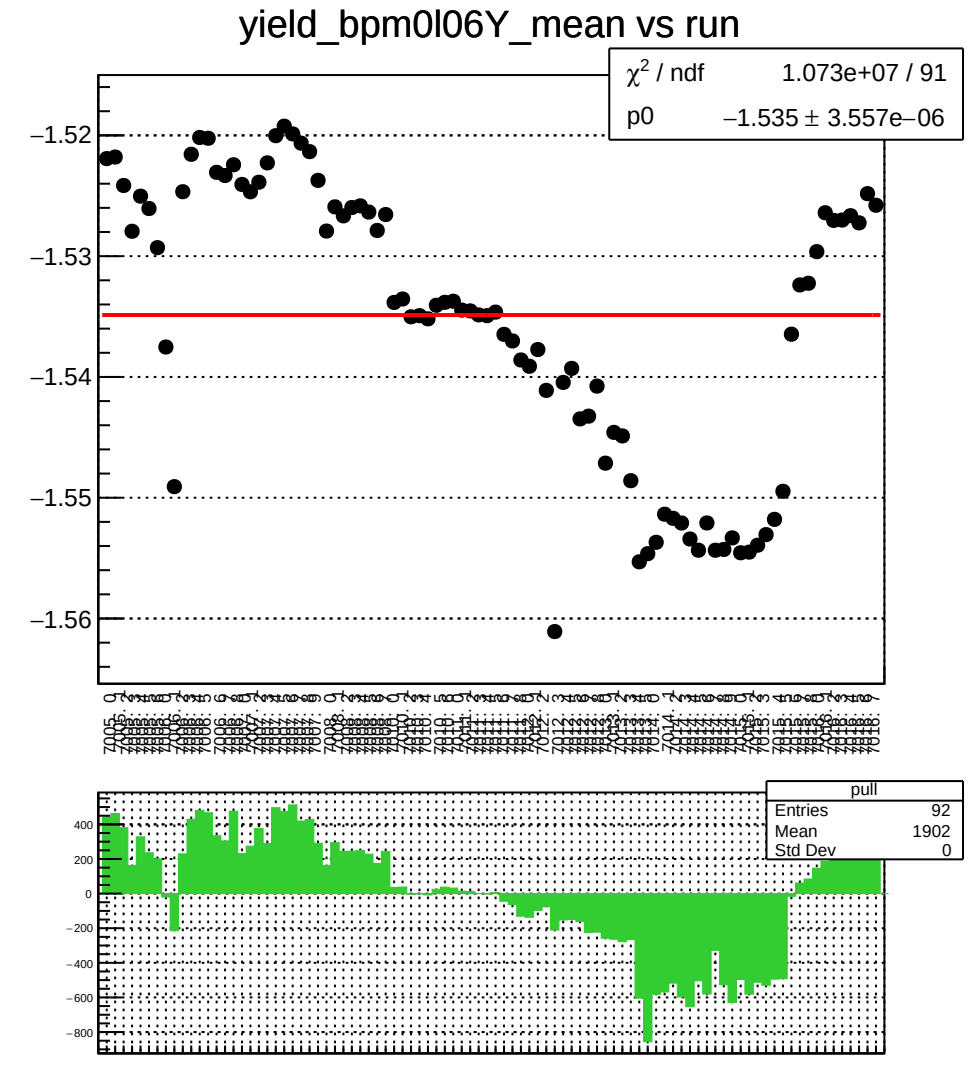

yield_bpm0l05Y_mean vs run
χ² / ndf 1.142e+08 / 91
p0 2.21 ± 7.082e−06
2.35
2.3
2.25
2.2
2.15
2.1
2.05
pull
Entries 92
Mean −1.136e+04
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000
−1500

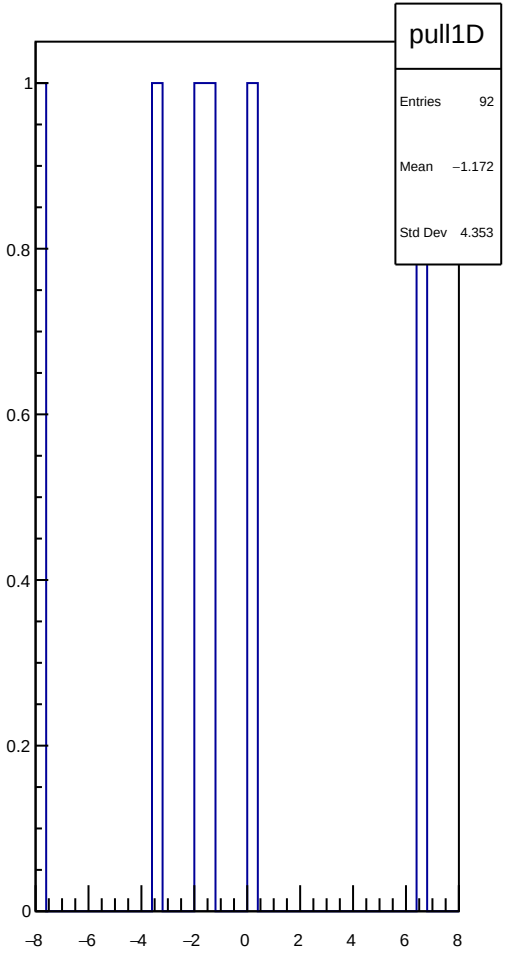

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

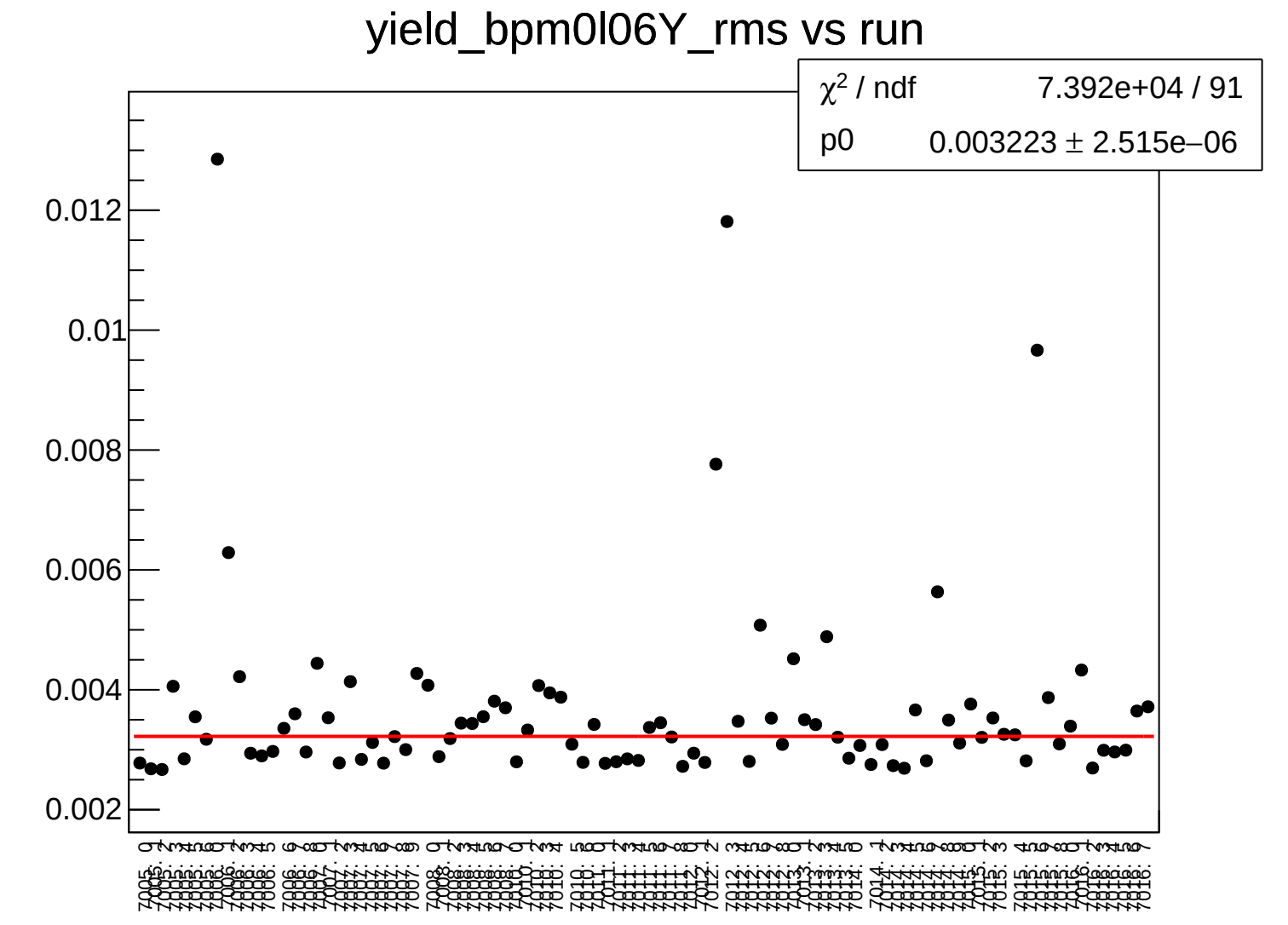

yield_bpm0l05Y_rms vs run
χ² / ndf 2.407e+05 / 91
p0 0.006081 ± 5.008e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

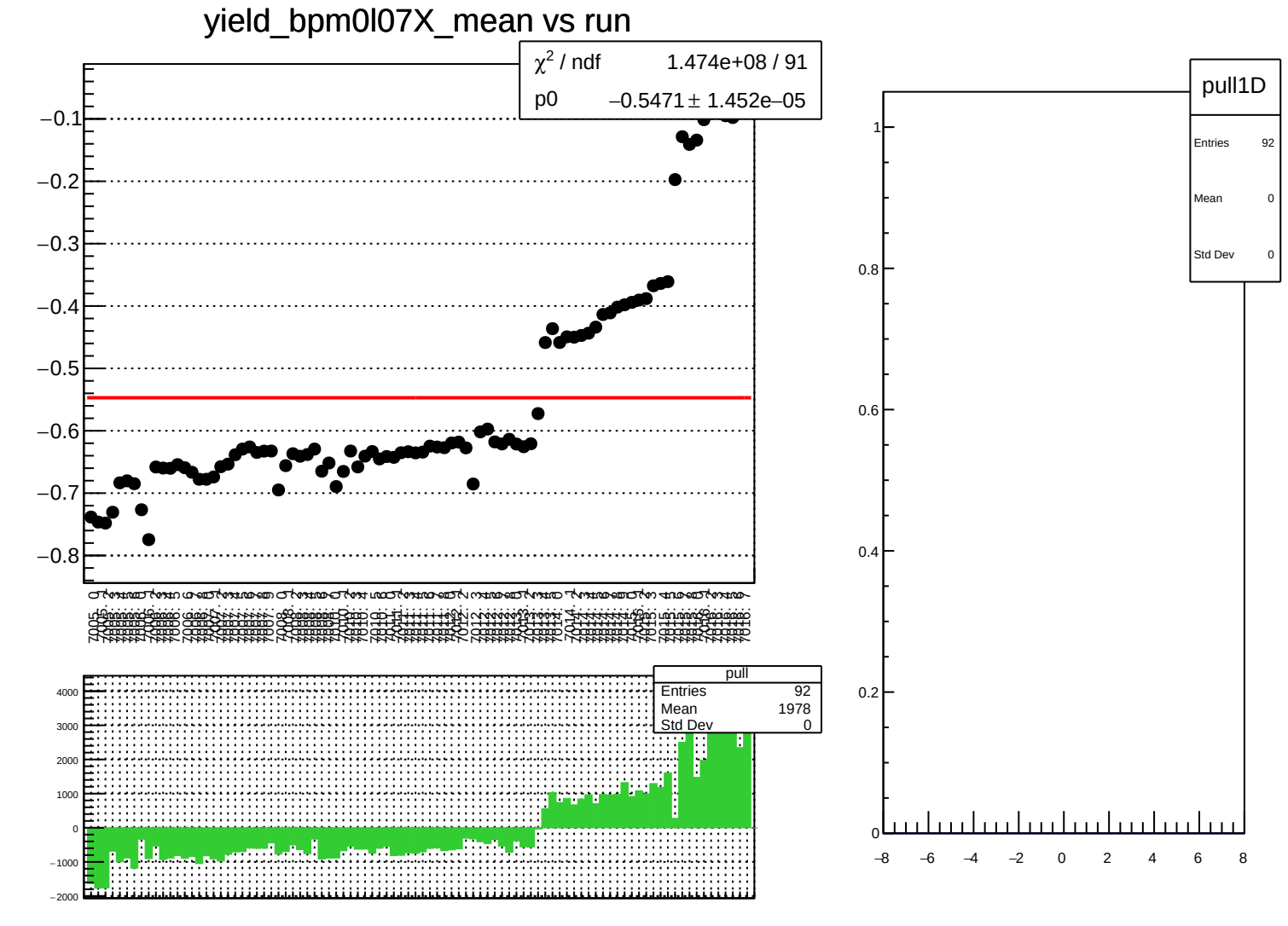

yield_bpm0l06X_mean vs run
χ² / ndf 1.696e+08 / 91
p0 2.824 ± 8.624e−06
3.1
3
2.9
2.8
2.7
pull
Entries 92
Mean 2317
Std Dev 0
4000
3000
2000
1000
0
−1000
−2000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

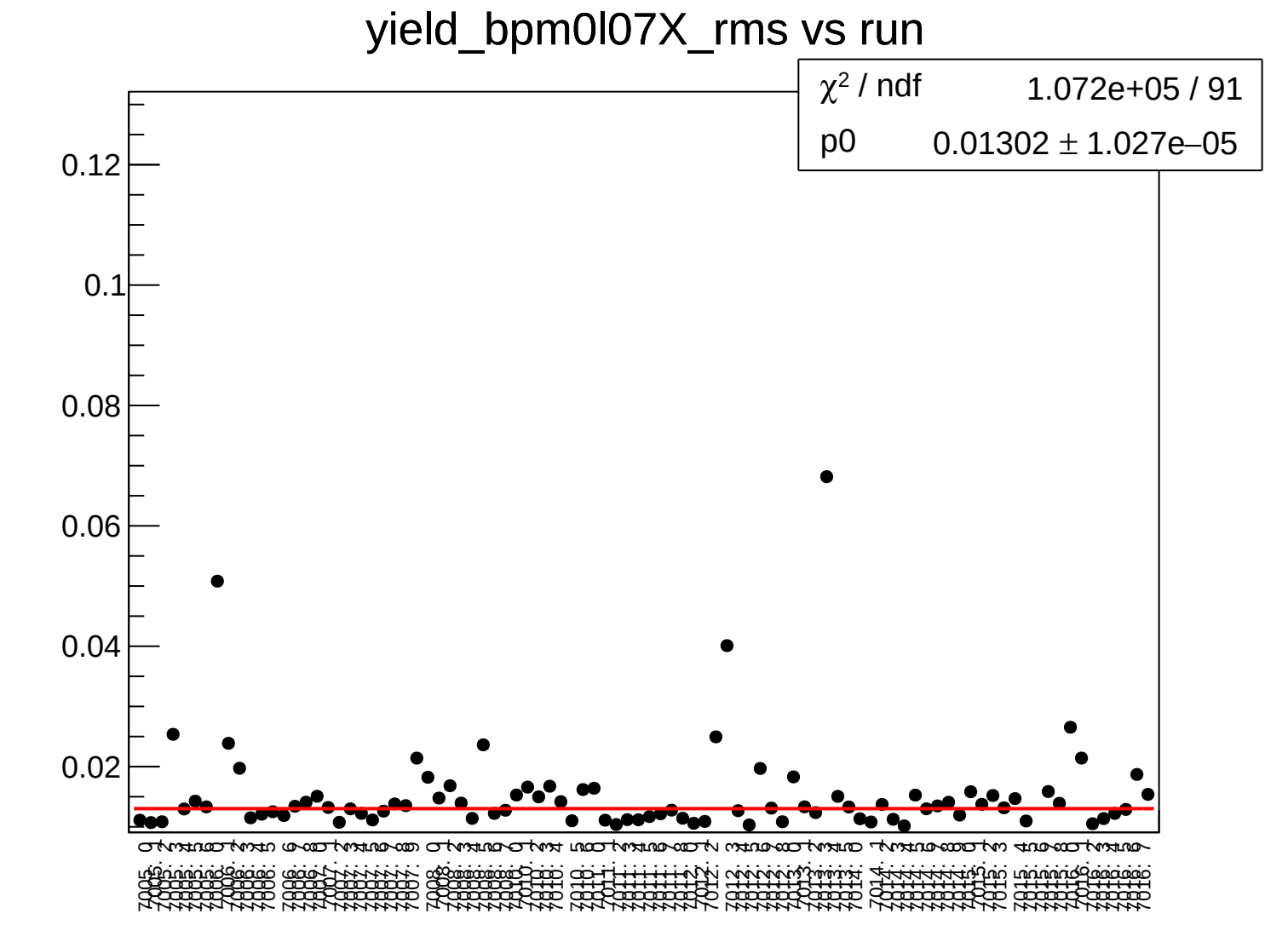

yield_bpm0l06X_rms vs run
χ² / ndf 1.172e+05 / 91
p0 0.007709 ± 6.098e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

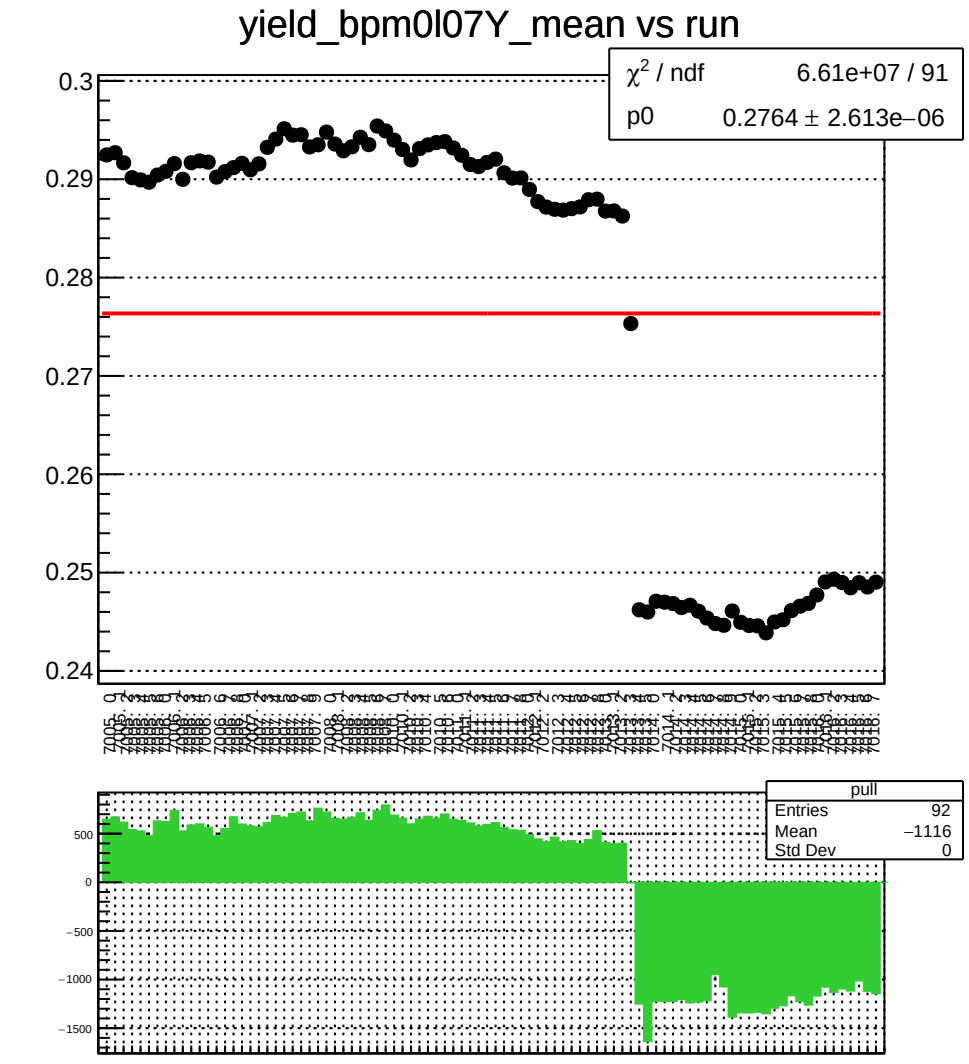

yield_bpm0l06Y_mean vs run
χ² / ndf 1.073e+07 / 91
p0 −1.535 ± 3.557e−06
−1.52
−1.53
−1.54
−1.55
−1.56
pull
Entries 92
Mean 1902
Std Dev 0
400
200
0
−200
−400
−600
−800

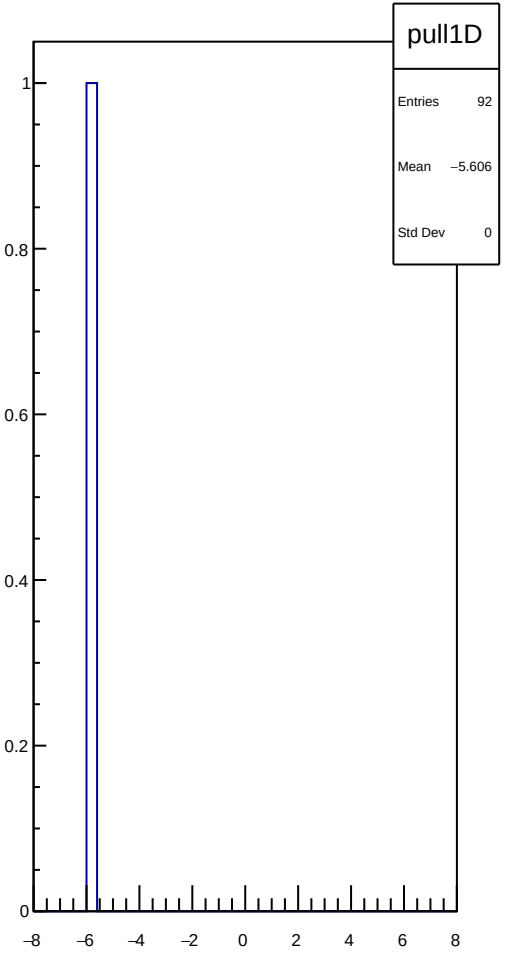

pull1D
Entries 92
Mean −1.172
Std Dev 4.353
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

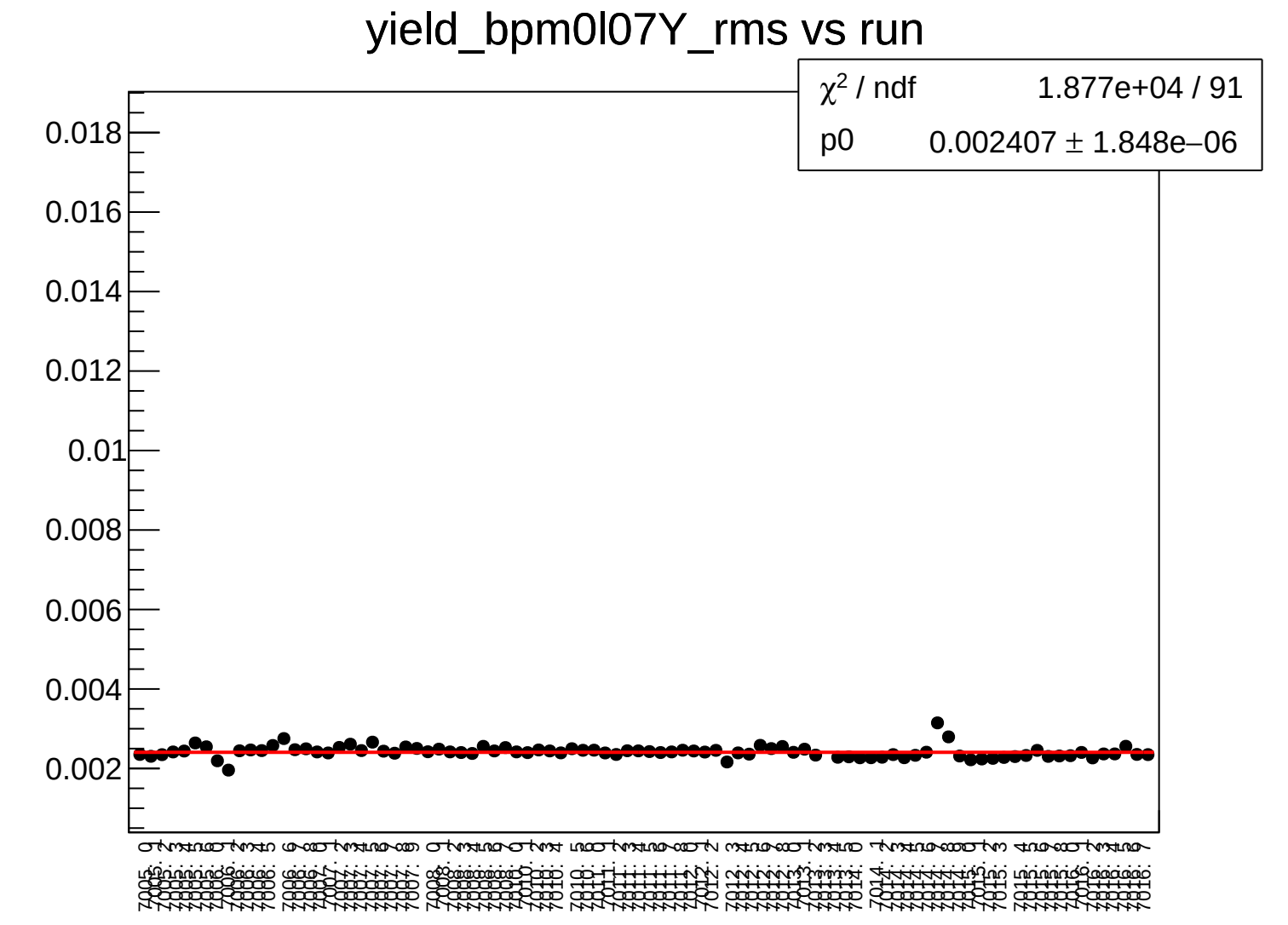

yield_bpm0l06Y_rms vs run
$\chi^2$ / ndf 7.392e+04 / 91
p0 0.003223 ± 2.515e−06
0.012
0.01
0.008
0.006
0.004
0.002

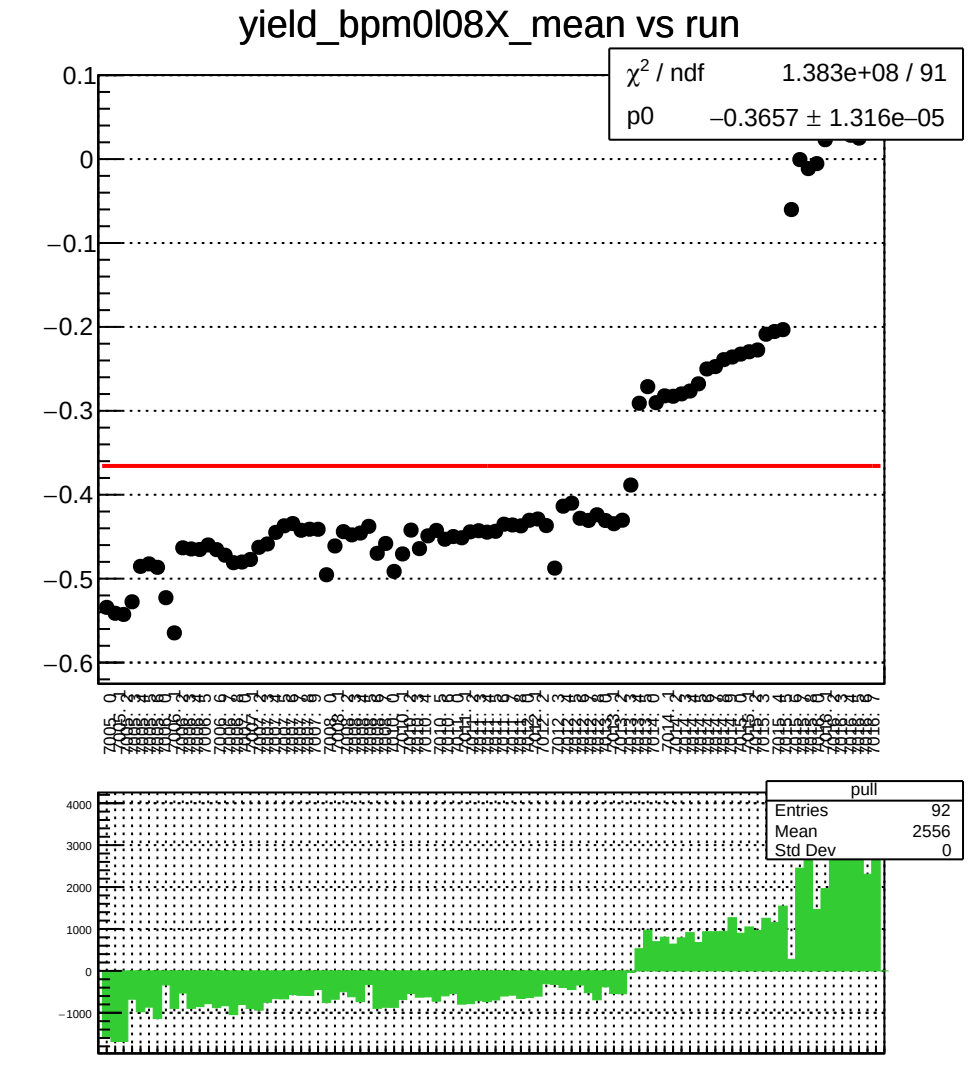

yield_bpm0l07X_mean vs run
χ² / ndf 1.474e+08 / 91
p0 −0.5471 ± 1.452e−05
pull
Entries 92
Mean 1978
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0

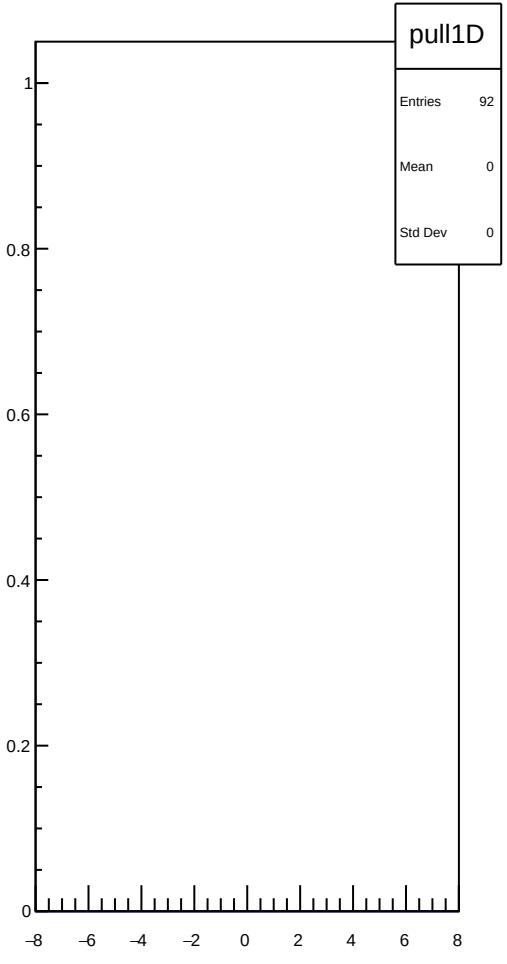

yield_bpm0l07X_rms vs run
χ² / ndf 1.072e+05 / 91
p0 0.01302 ± 1.027e–05
0.12
0.1
0.08
0.06
0.04
0.02

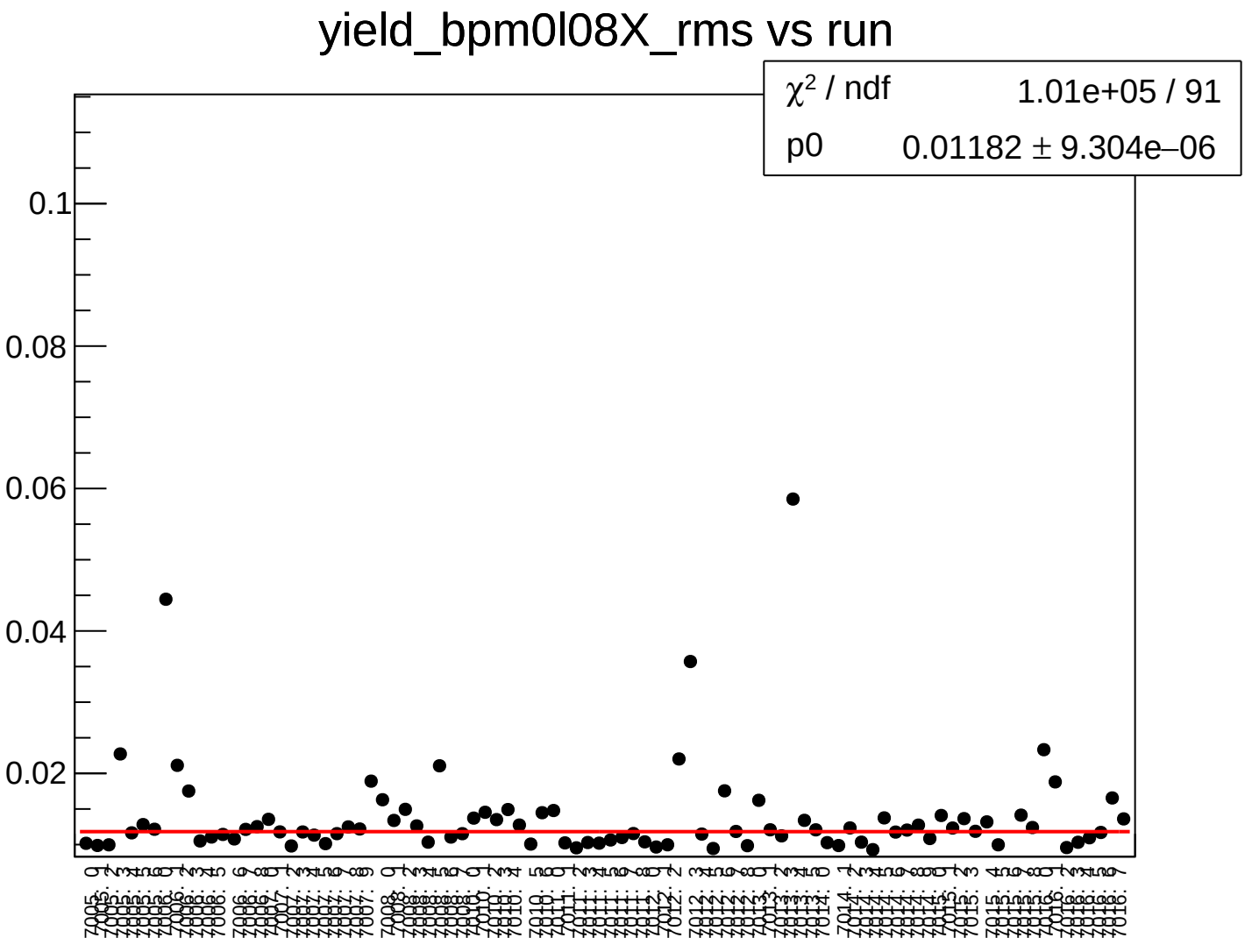

yield_bpm0l07Y_mean vs run
χ² / ndf 6.61e+07 / 91
p0 0.2764 ± 2.613e−06
0.3
0.29
0.28
0.27
0.26
0.25
0.24
pull
Entries 92
Mean −1116
Std Dev 0
500
0
−500
−1000
−1500

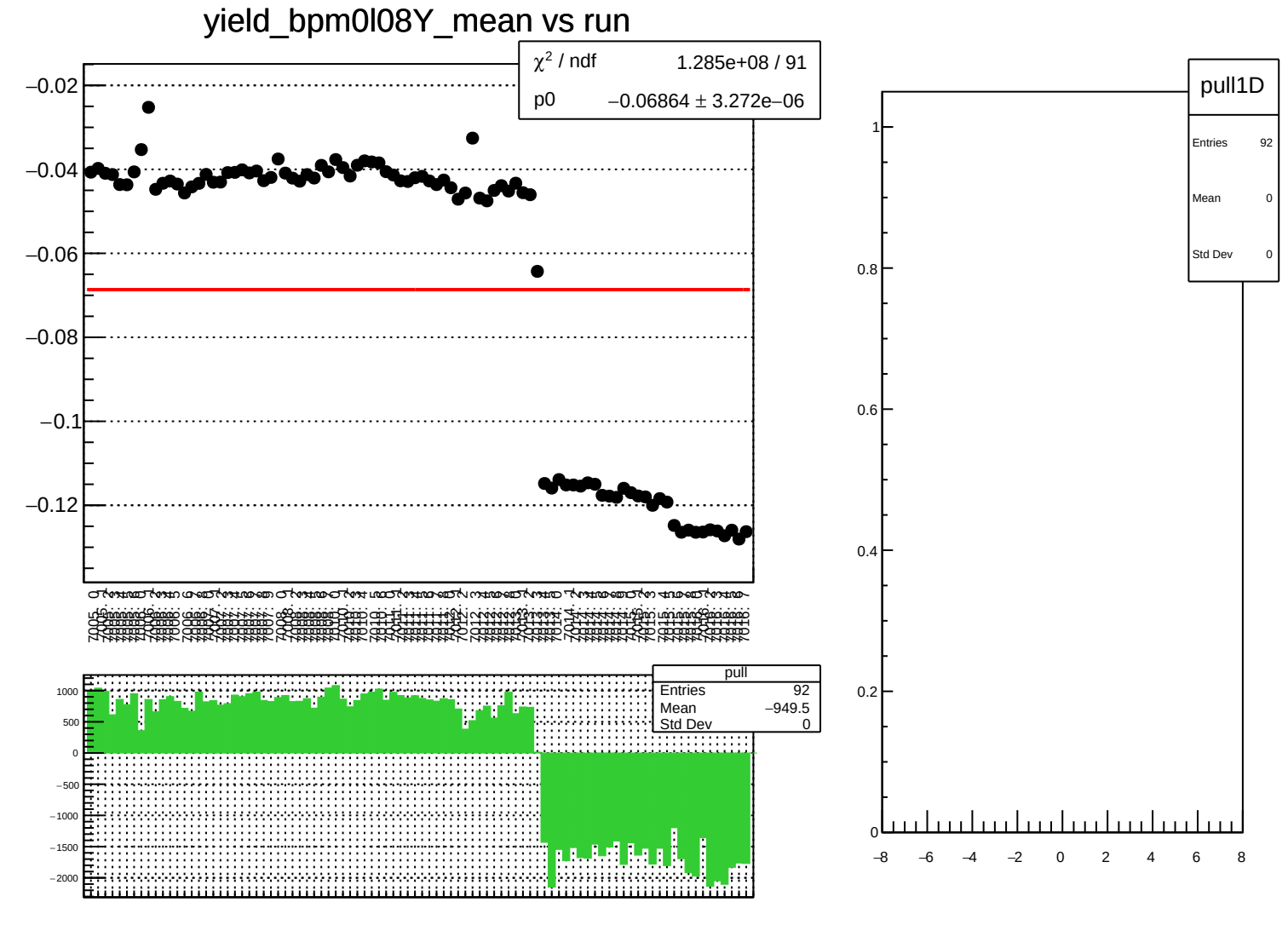

pull1D
Entries 92
Mean −5.606
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

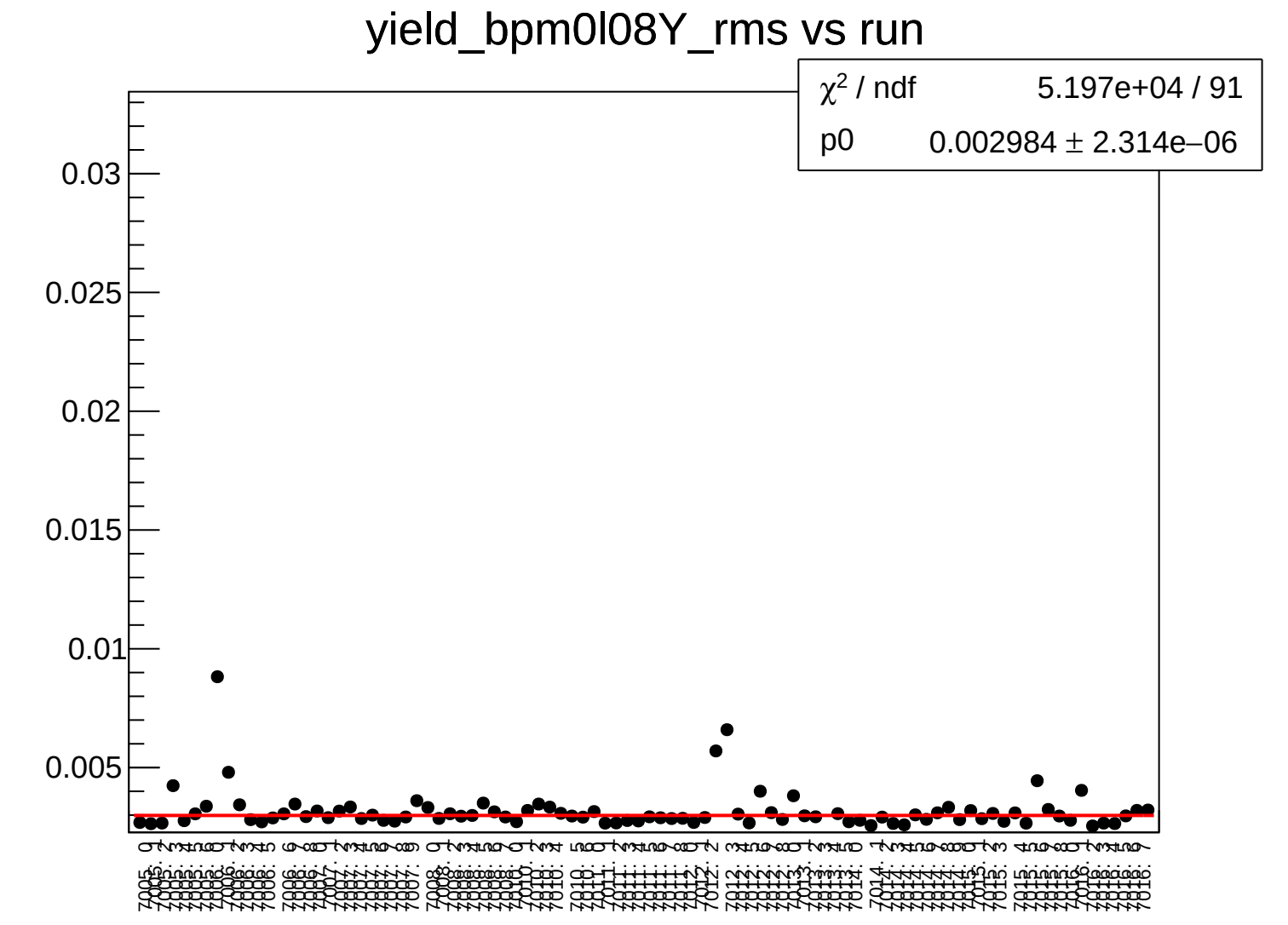

yield_bpm0l07Y_rms vs run
χ² / ndf 1.877e+04 / 91
p0 0.002407 ± 1.848e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

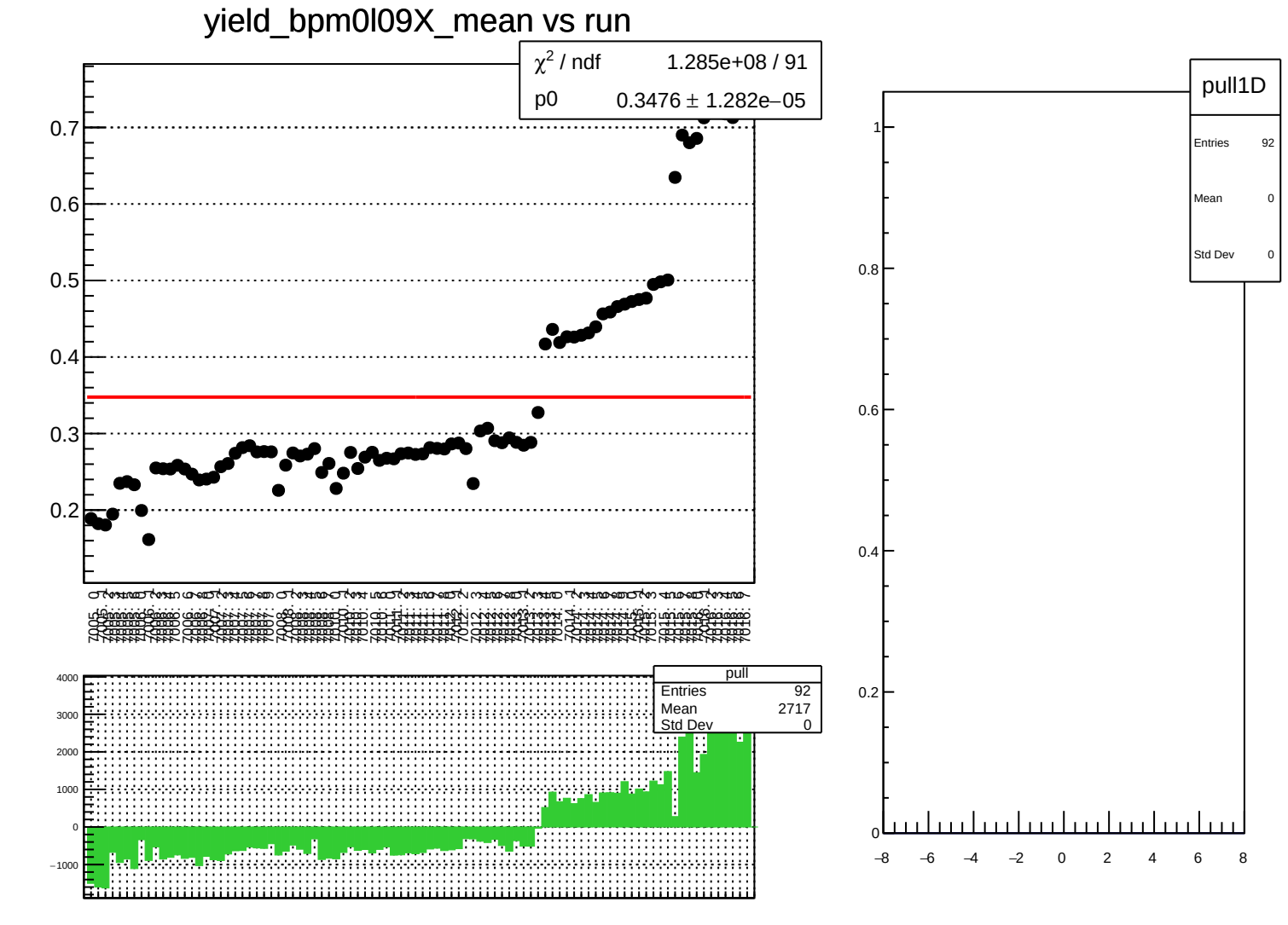

yield_bpm0l08X_mean vs run
χ² / ndf 1.383e+08 / 91
p0 −0.3657 ± 1.316e−05
pull
Entries 92
Mean 2556
Std Dev 0

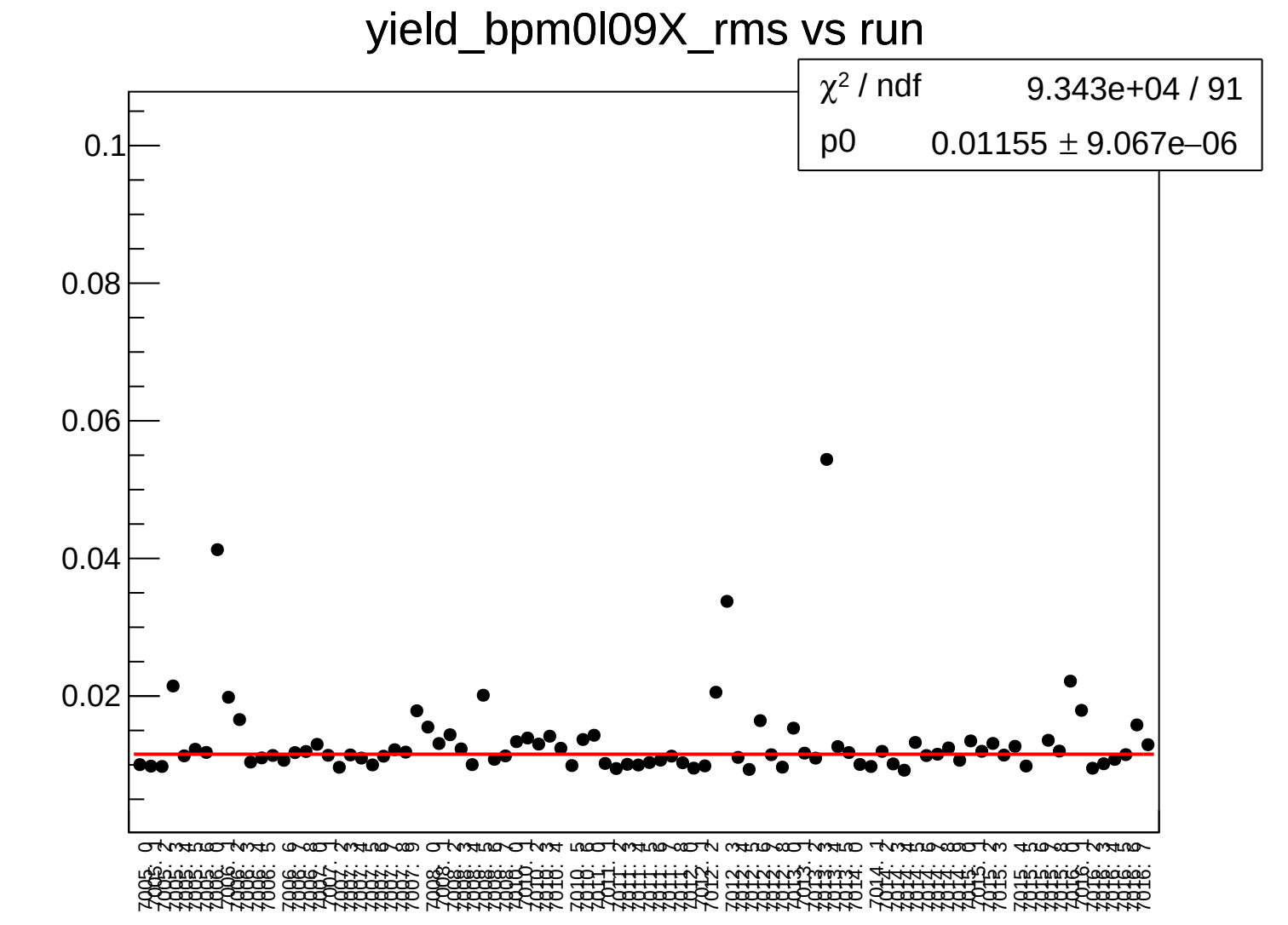

pull1D
Entries 92
Mean 0
Std Dev 0

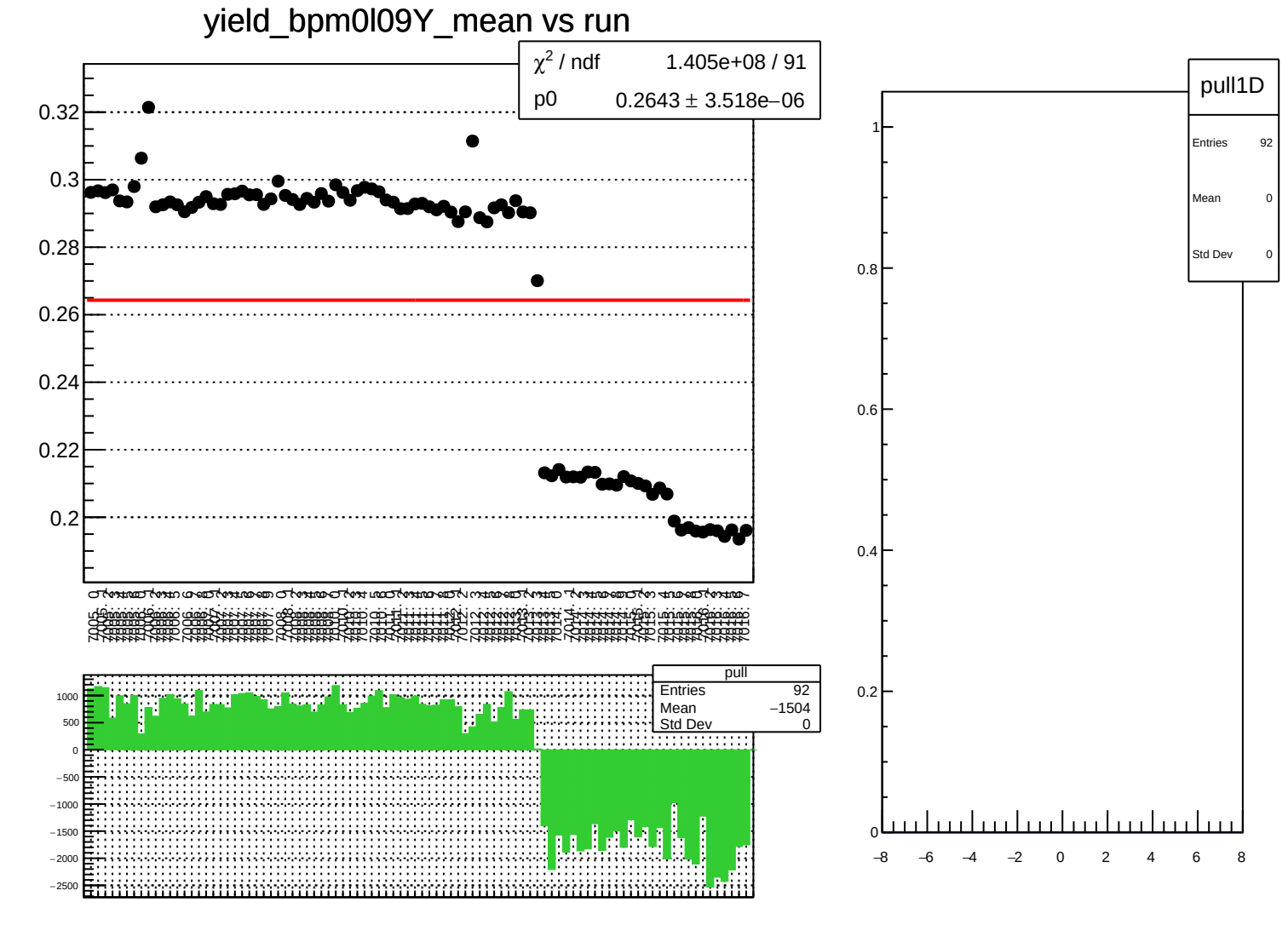

yield_bpm0l08X_rms vs run
χ² / ndf 1.01e+05 / 91
p0 0.01182 ± 9.304e–06
0.1
0.08
0.06
0.04
0.02

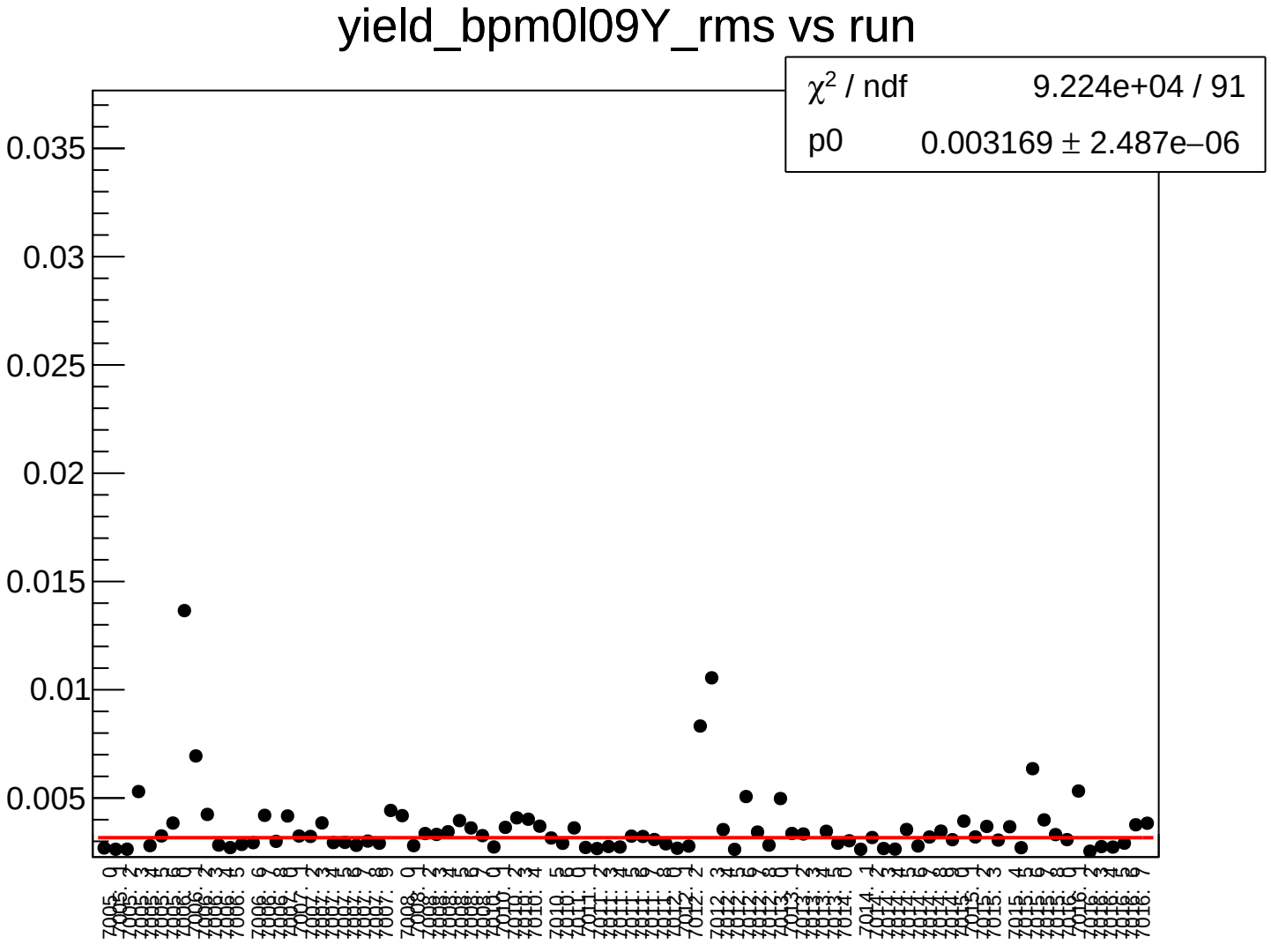

yield_bpm0l08Y_mean vs run
χ² / ndf 1.285e+08 / 91
p0 −0.06864 ± 3.272e−06
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 92
Mean −949.5
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

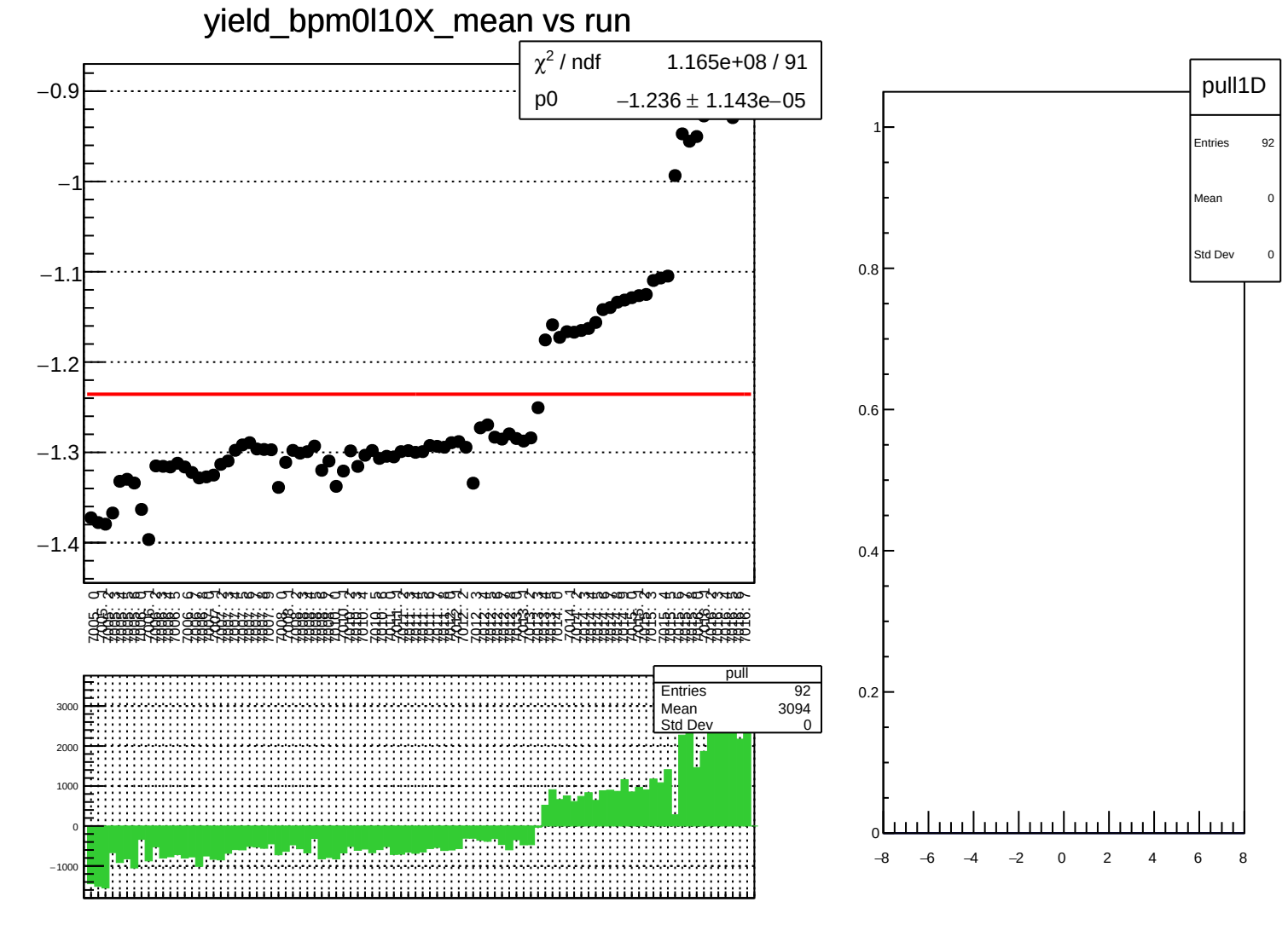

yield_bpm0l08Y_rms vs run
χ² / ndf 5.197e+04 / 91
p0 0.002984 ± 2.314e−06
0.03
0.025
0.02
0.015
0.01
0.005

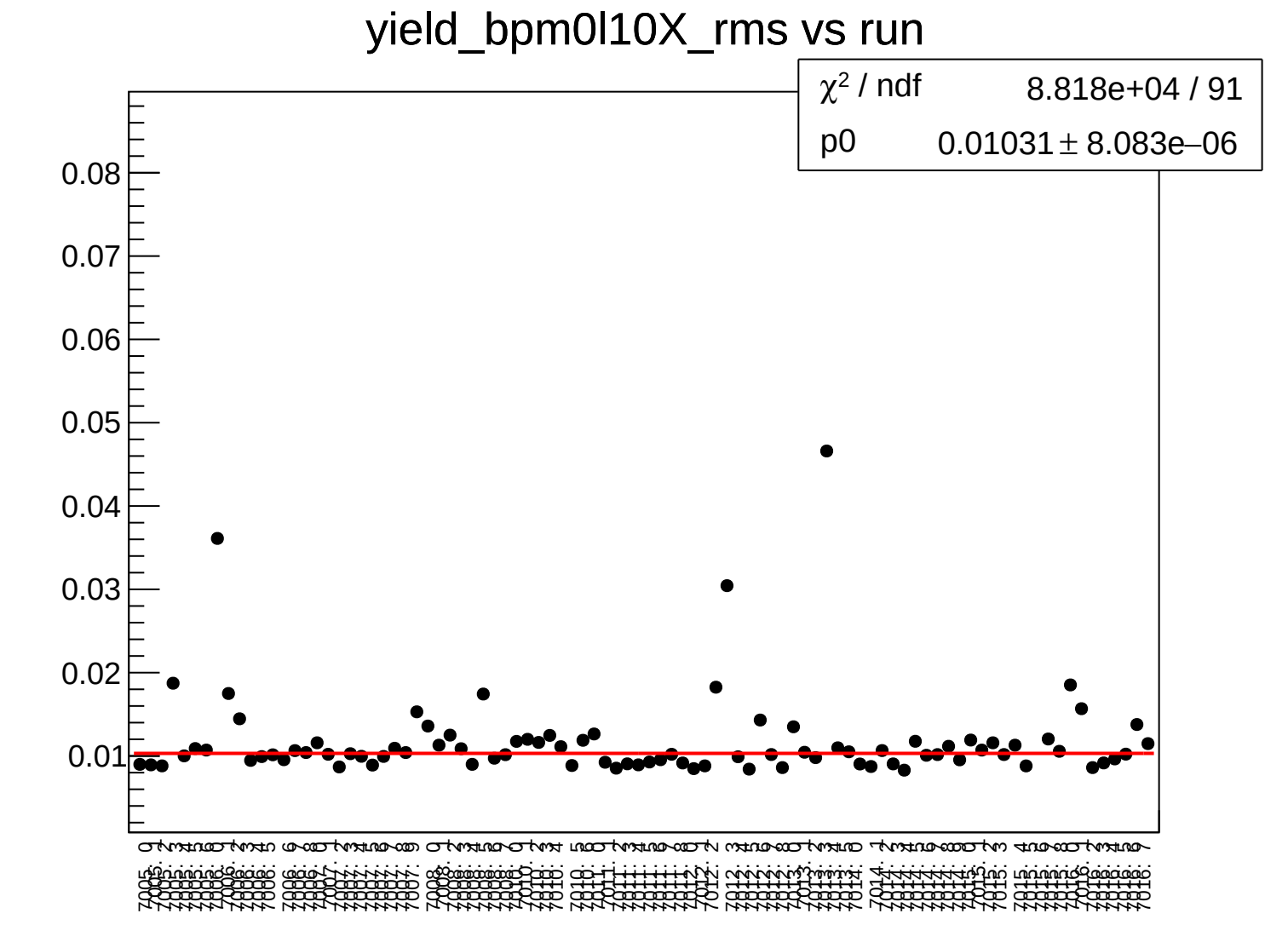

yield_bpm0l09X_mean vs run
χ² / ndf 1.285e+08 / 91
p0 0.3476 ± 1.282e−05
0.7
0.6
0.5
0.4
0.3
0.2
pull
Entries 92
Mean 2717
Std Dev 0
4000
3000
2000
1000
0
−1000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

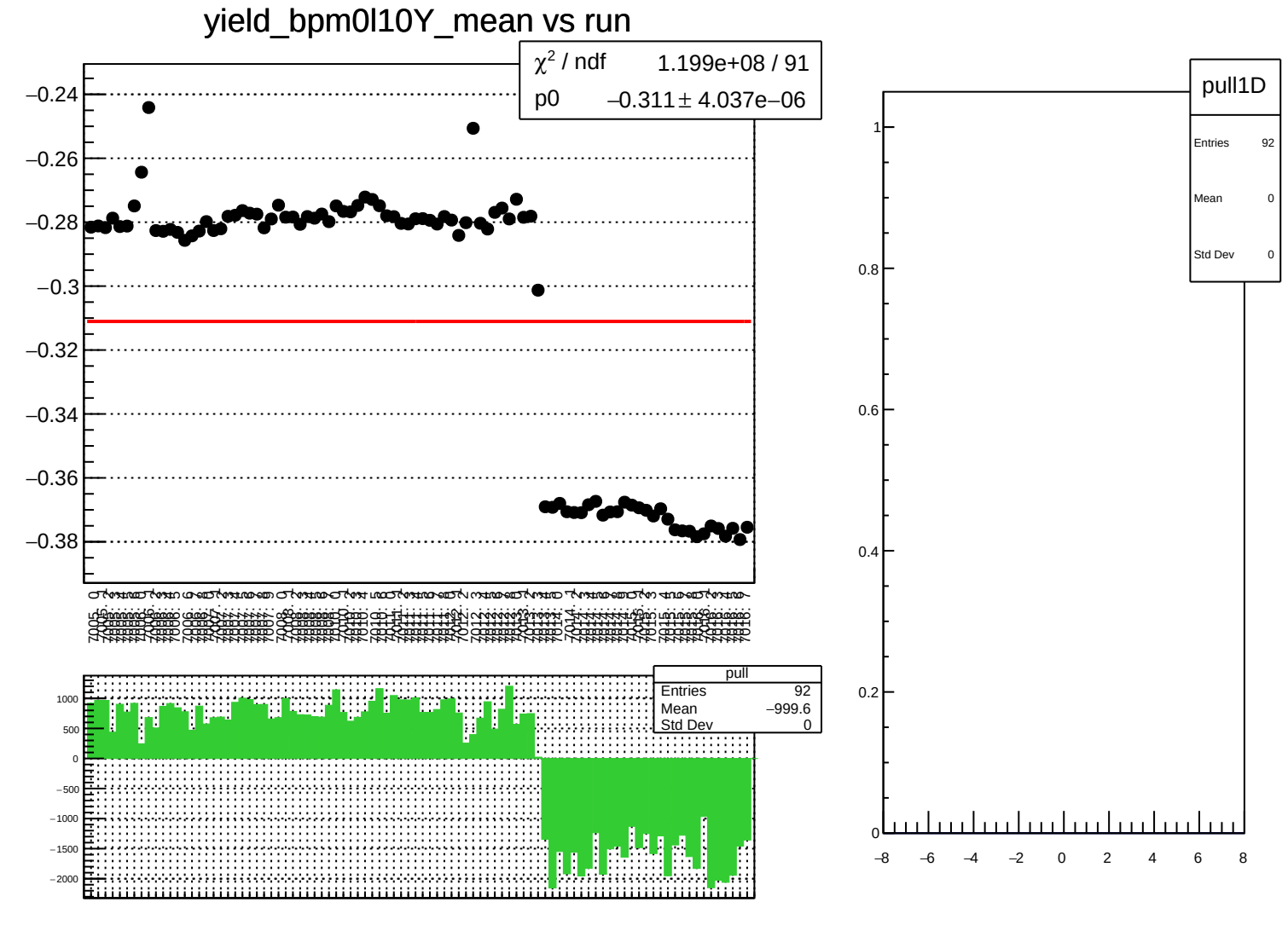

yield_bpm0l09X_rms vs run
χ² / ndf 9.343e+04 / 91
p0 0.01155 ± 9.067e–06
0.1
0.08
0.06
0.04
0.02

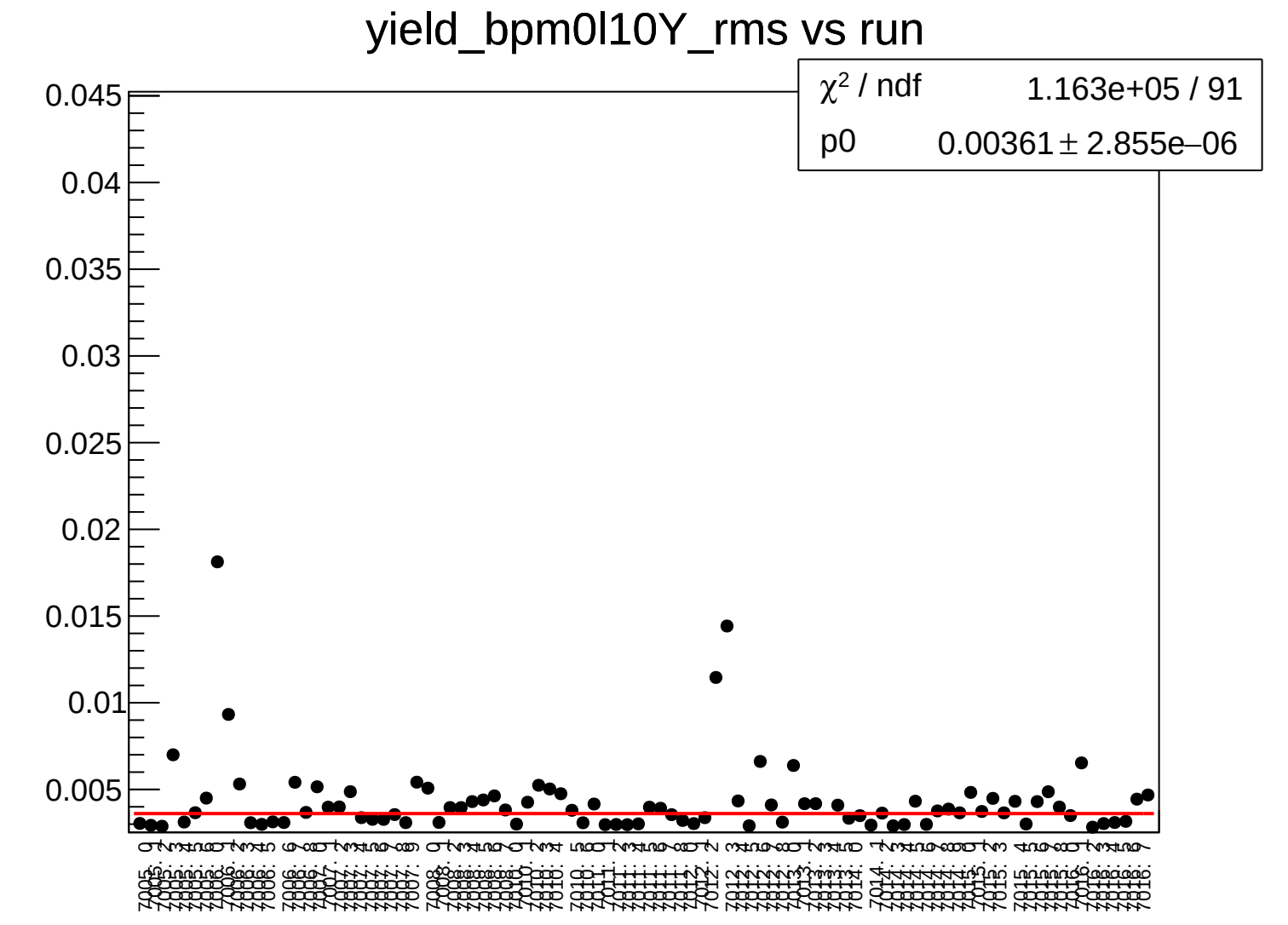

yield_bpm0l09Y_mean vs run
χ² / ndf 1.405e+08 / 91
p0 0.2643 ± 3.518e−06
0.32
0.3
0.28
0.26
0.24
0.22
0.2
pull
Entries 92
Mean −1504
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

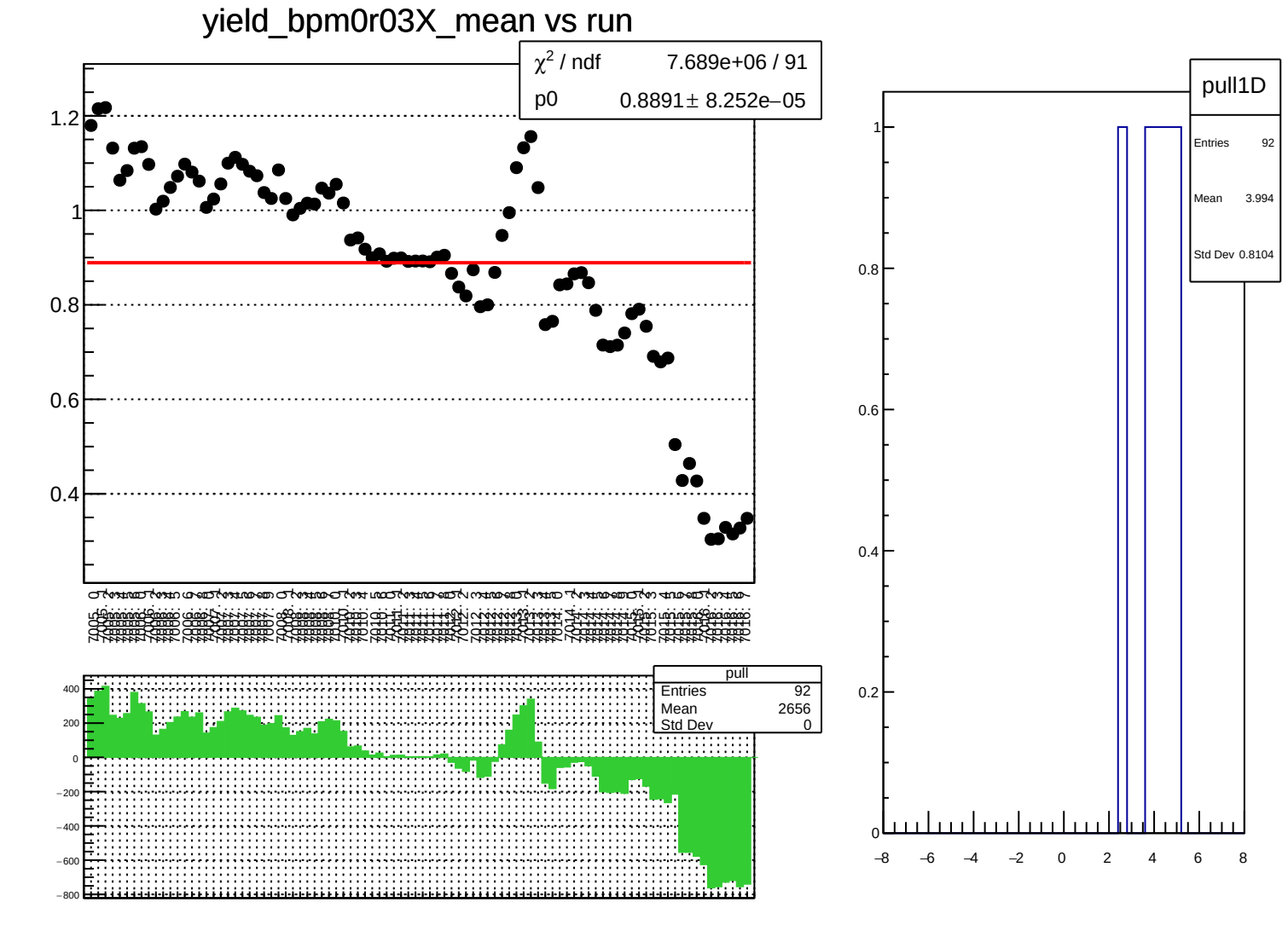

yield_bpm0l09Y_rms vs run
χ² / ndf 9.224e+04 / 91
p0 0.003169 ± 2.487e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

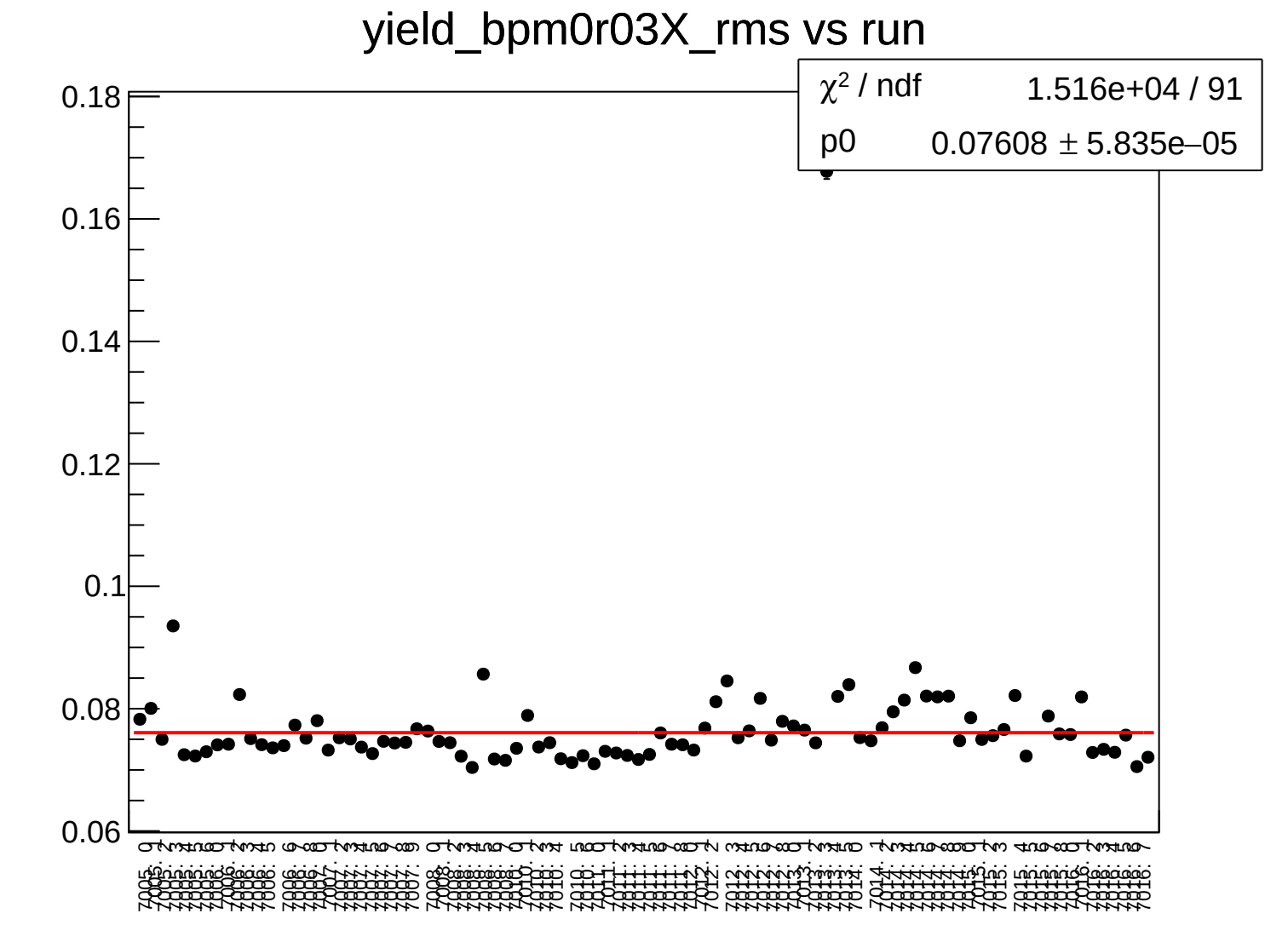

yield_bpm0l10X_mean vs run
χ² / ndf 1.165e+08 / 91
p0 −1.236 ± 1.143e−05
−0.9
−1
−1.1
−1.2
−1.3
−1.4
pull
Entries 92
Mean 3094
Std Dev 0
3000
2000
1000
0
−1000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

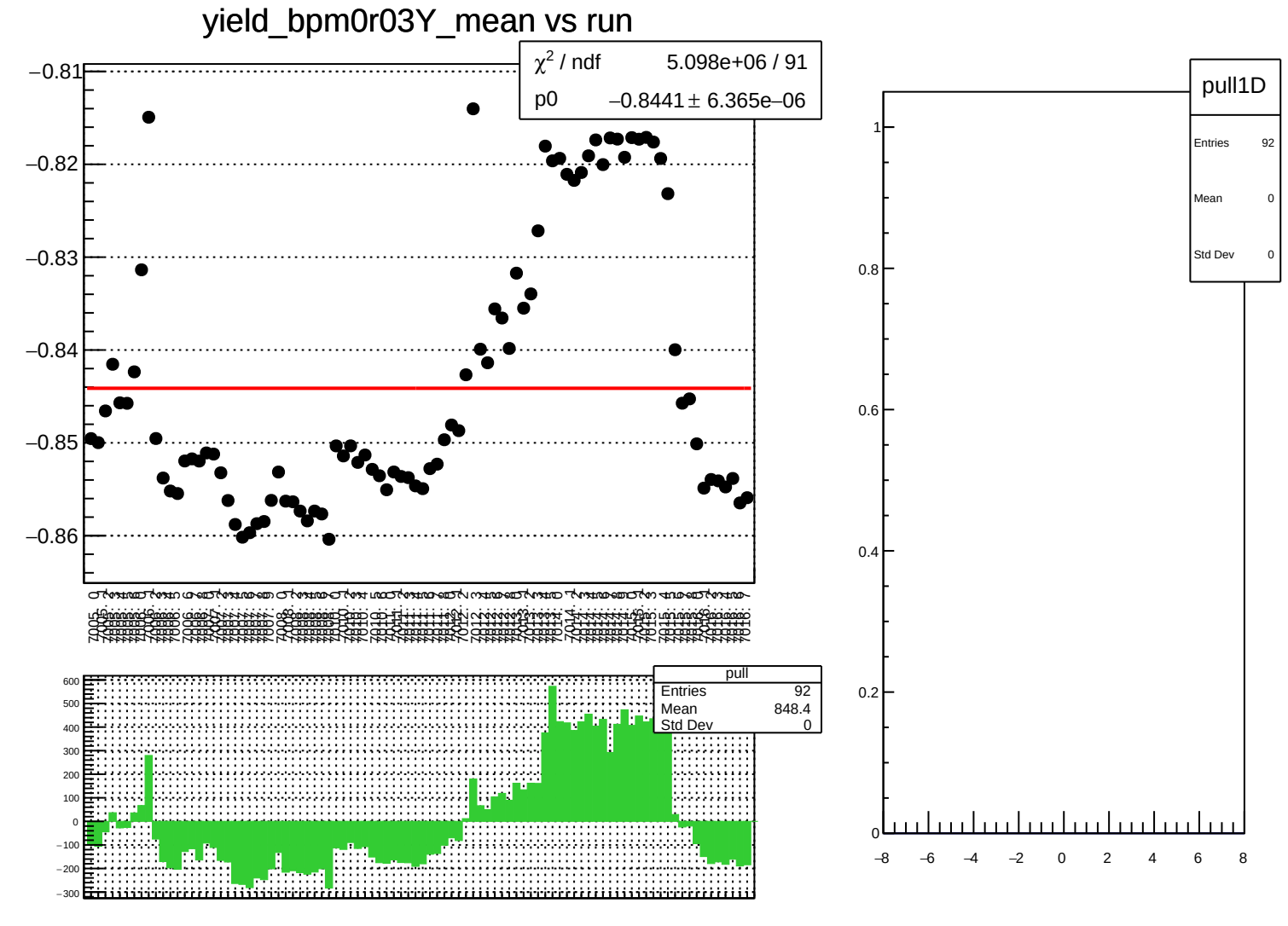

yield_bpm0l10X_rms vs run
χ² / ndf 8.818e+04 / 91
p0 0.01031 ± 8.083e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

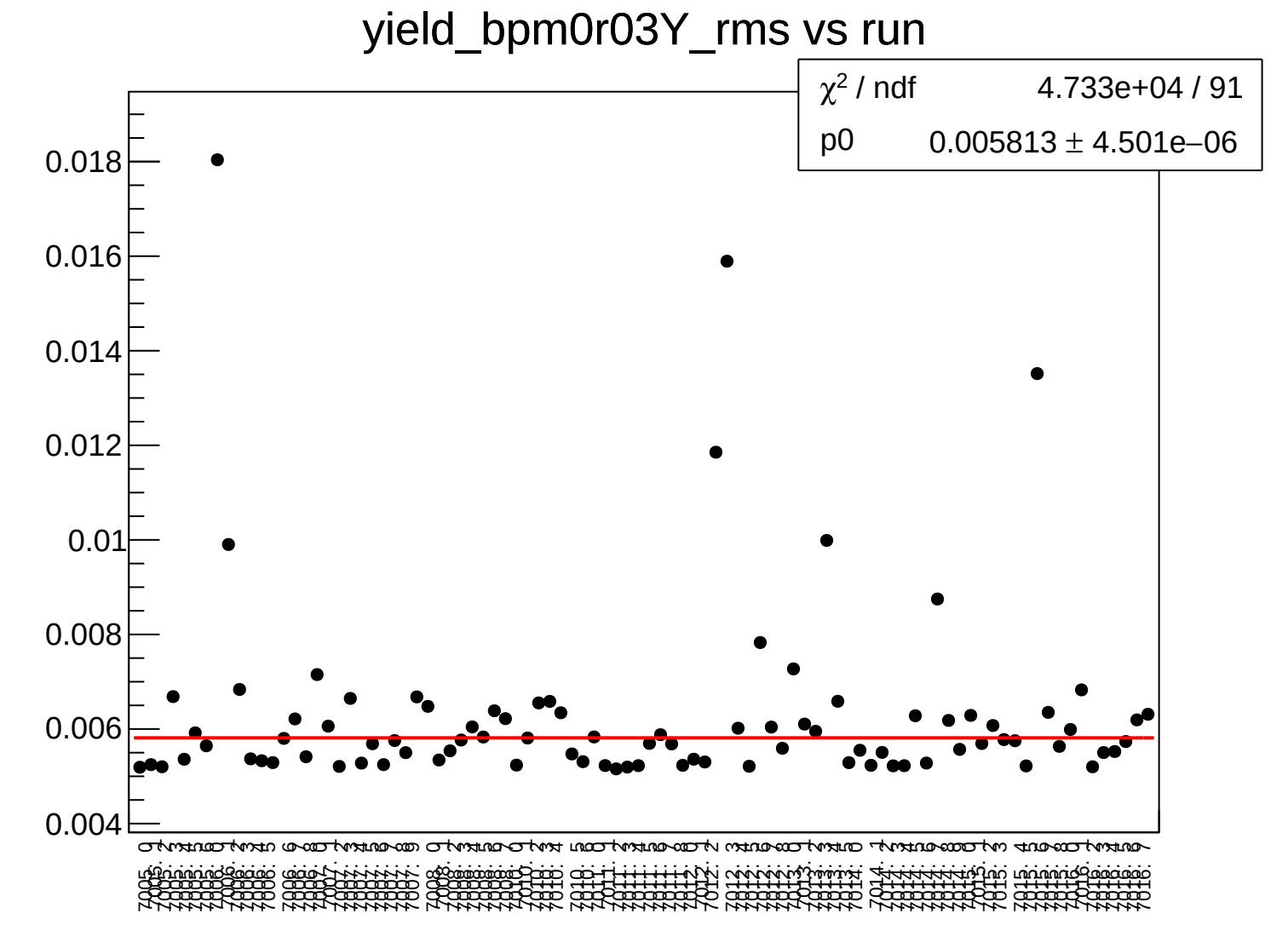

yield_bpm0l10Y_mean vs run
χ² / ndf 1.199e+08 / 91
p0 −0.311 ± 4.037e−06
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
pull
Entries 92
Mean −999.6
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

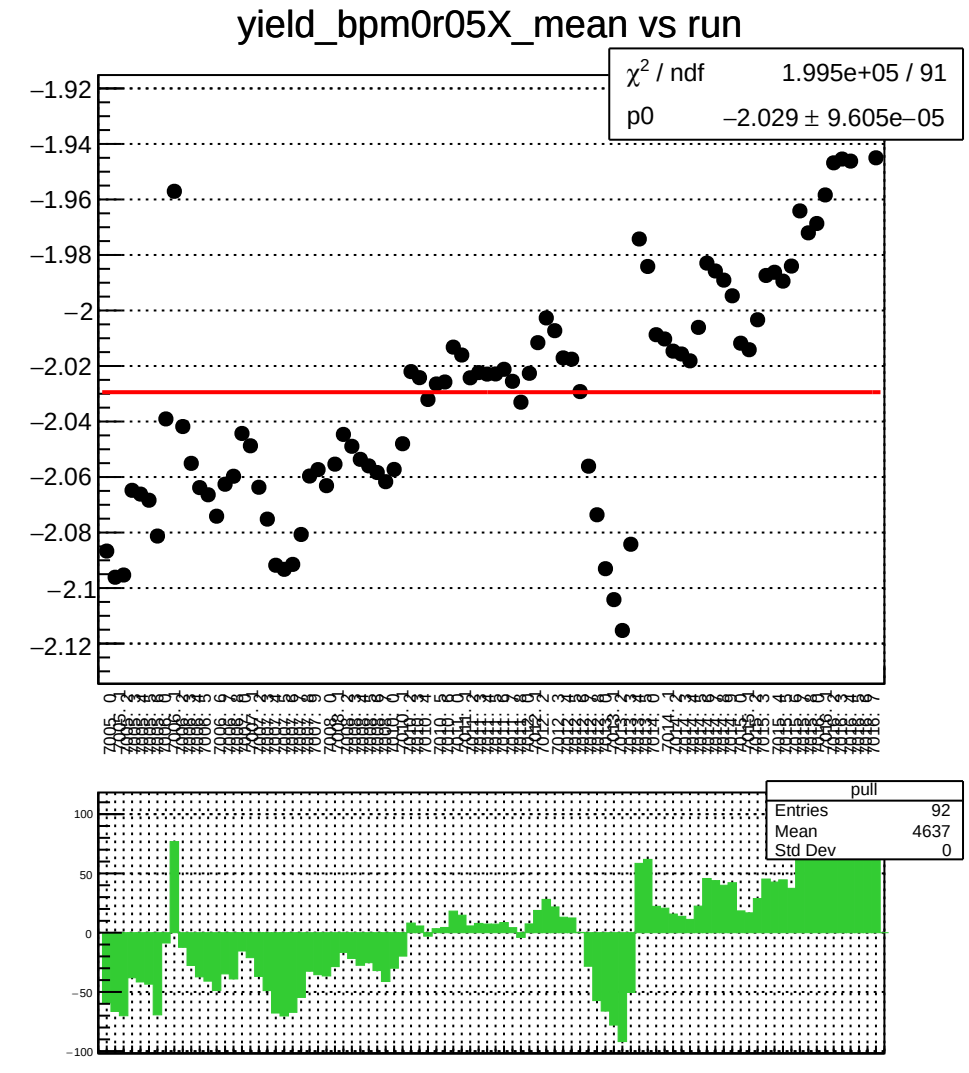

yield_bpm0l10Y_rms vs run
χ² / ndf 1.163e+05 / 91
p0 0.00361 ± 2.855e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

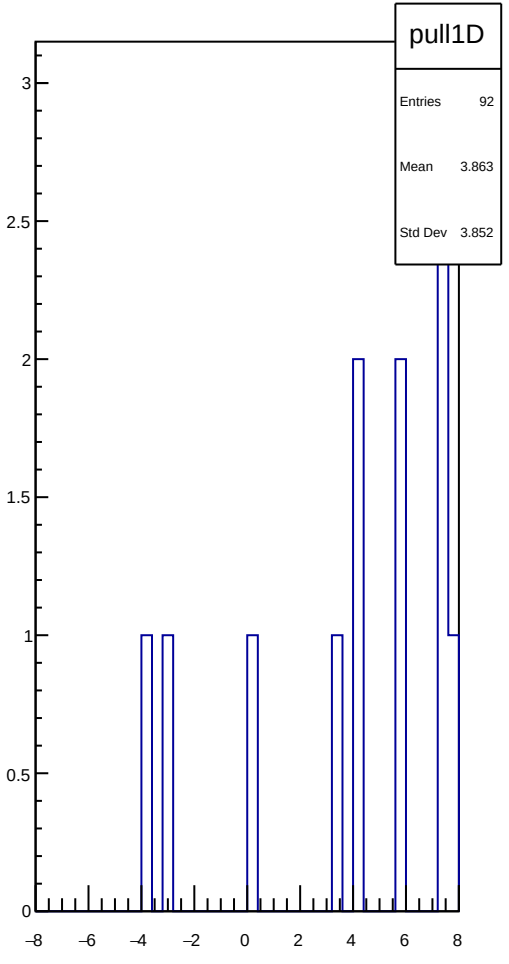

yield_bpm0r03X_mean vs run
χ² / ndf 7.689e+06 / 91
p0 0.8891 ± 8.252e−05
pull
Entries 92
Mean 2656
Std Dev 0
pull1D
Entries 92
Mean 3.994
Std Dev 0.8104

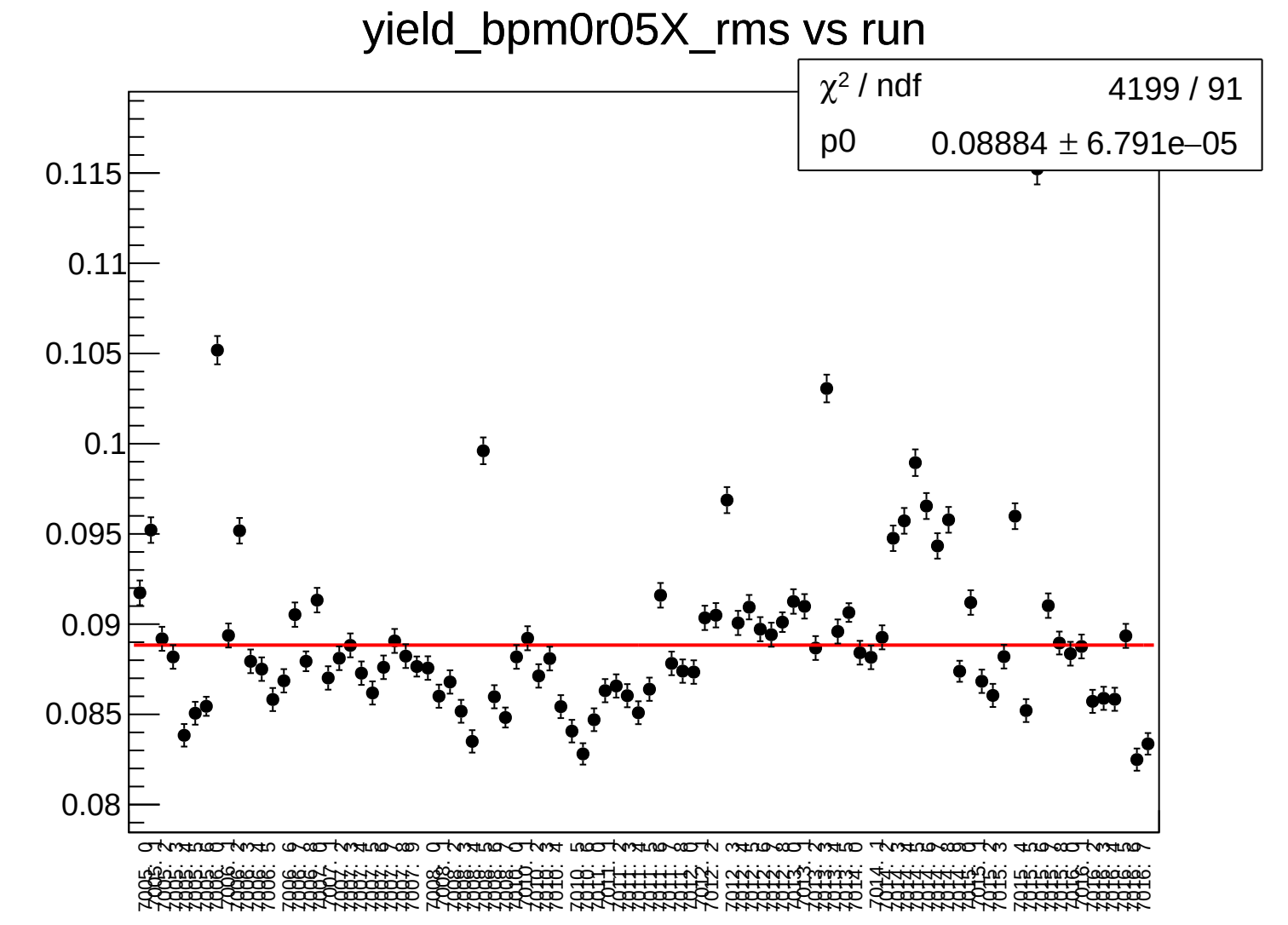

yield_bpm0r03X_rms vs run
χ² / ndf 1.516e+04 / 91
p0 0.07608 ± 5.835e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06

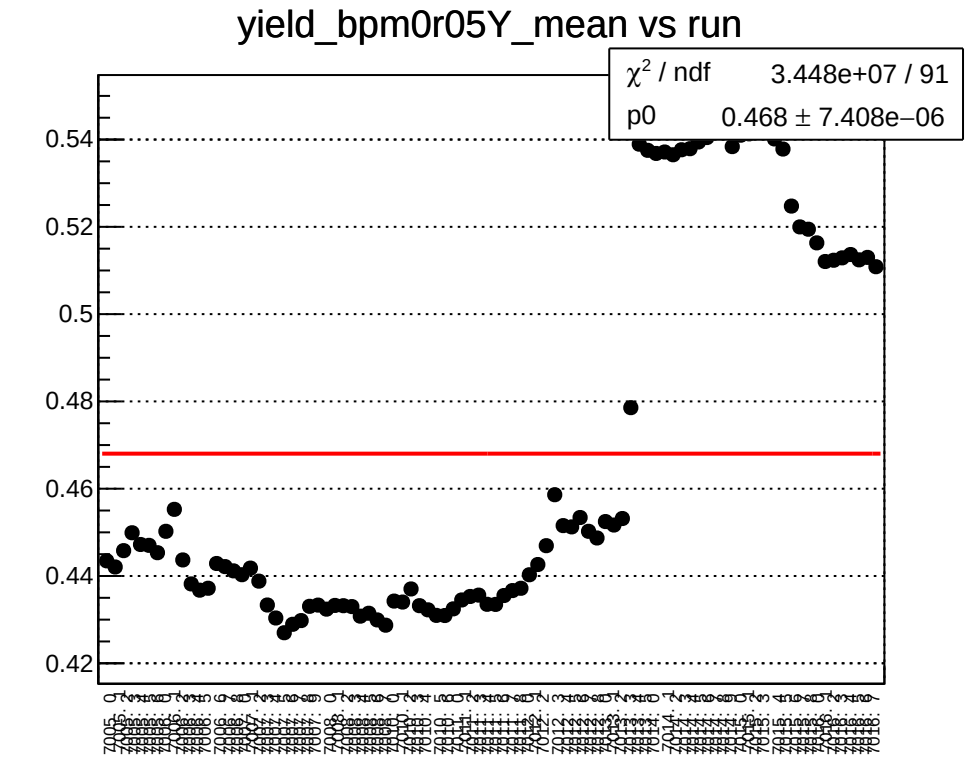

yield_bpm0r03Y_mean vs run
χ² / ndf 5.098e+06 / 91
p0 −0.8441 ± 6.365e−06
−0.81
−0.82
−0.83
−0.84
−0.85
−0.86
pull
Entries 92
Mean 848.4
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

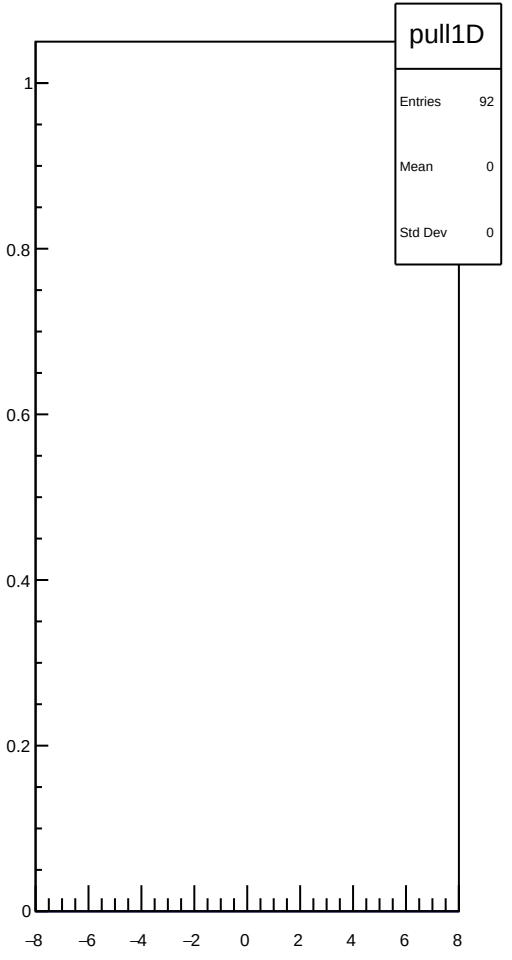

yield_bpm0r03Y_rms vs run
$\chi^2$ / ndf 4.733e+04 / 91
p0 0.005813 ± 4.501e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

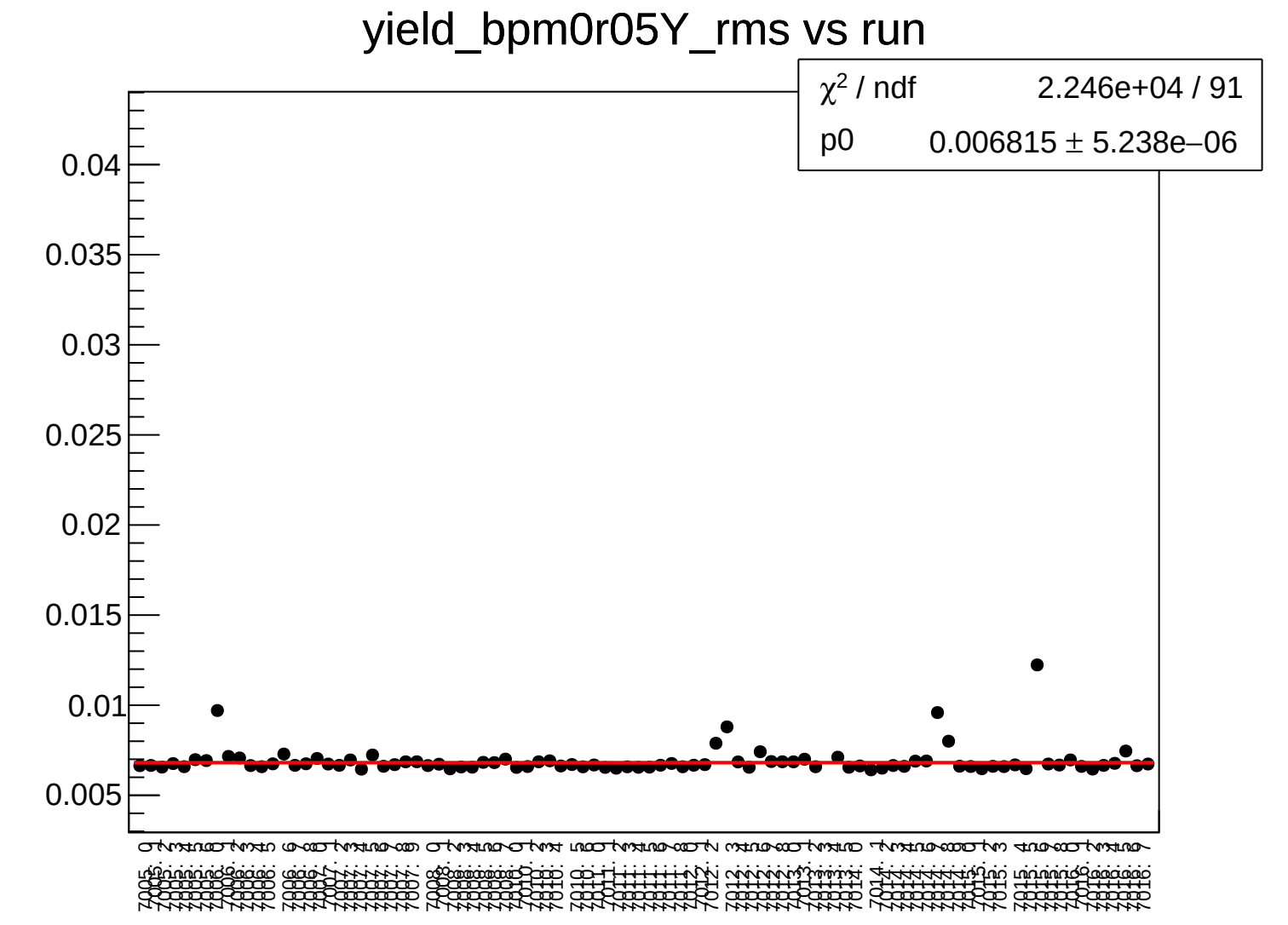

yield_bpm0r05X_mean vs run
χ² / ndf 1.995e+05 / 91
p0 −2.029 ± 9.605e−05
pull
Entries 92
Mean 4637
Std Dev 0

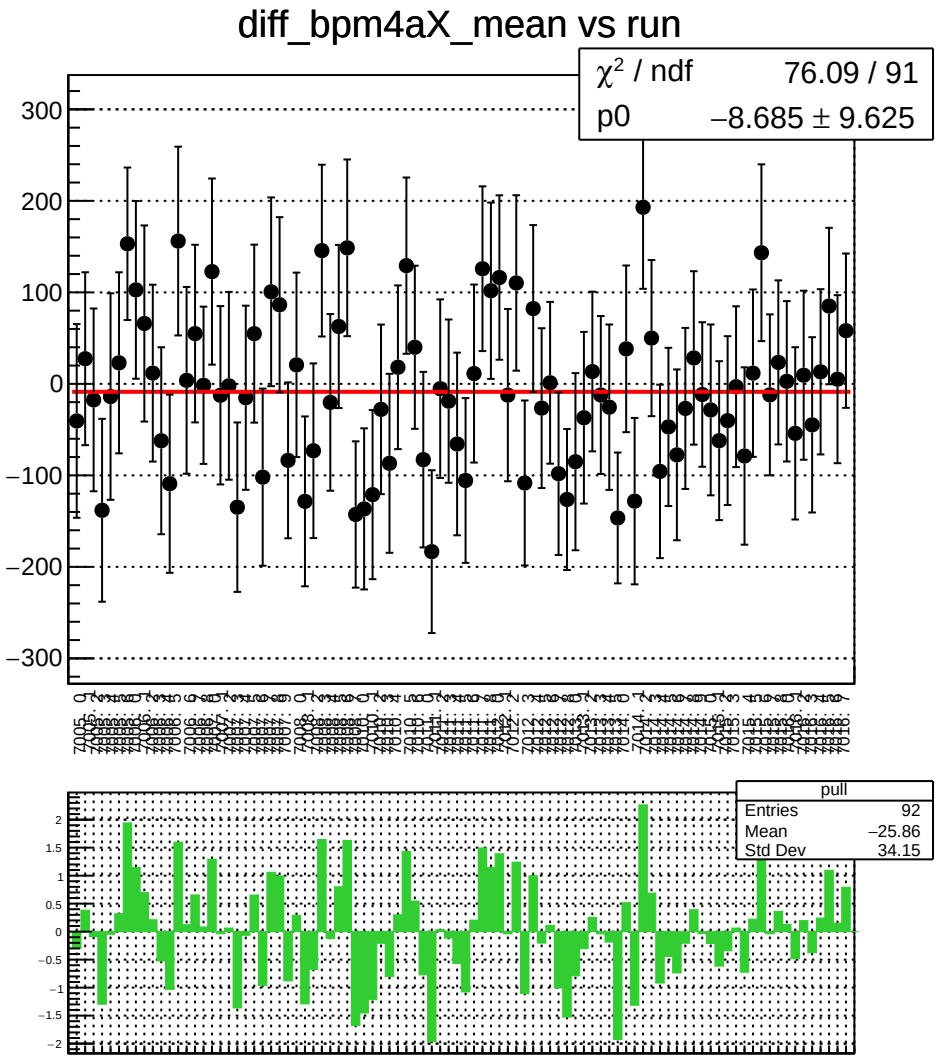

pull1D
Entries 92
Mean 3.863
Std Dev 3.852

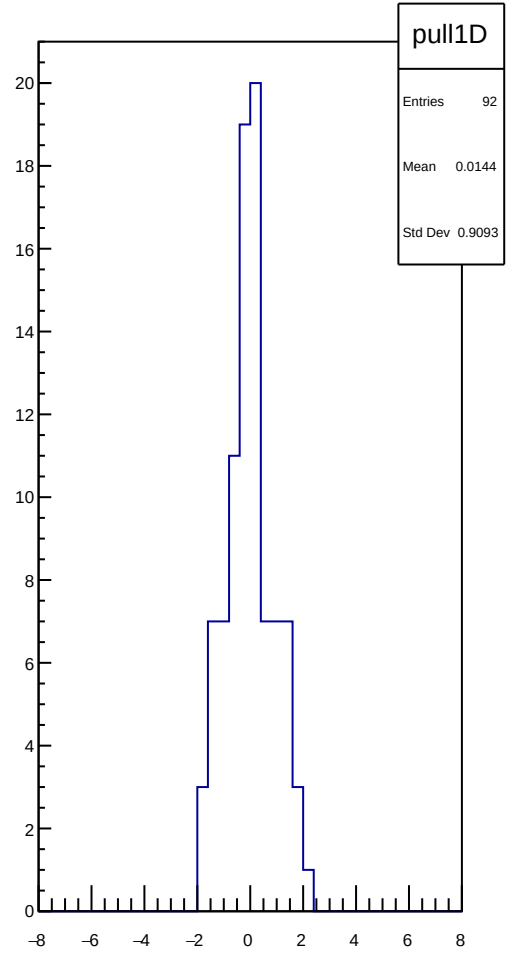

yield_bpm0r05X_rms vs run
χ² / ndf 4199 / 91
p0 0.08884 ± 6.791e–05
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08

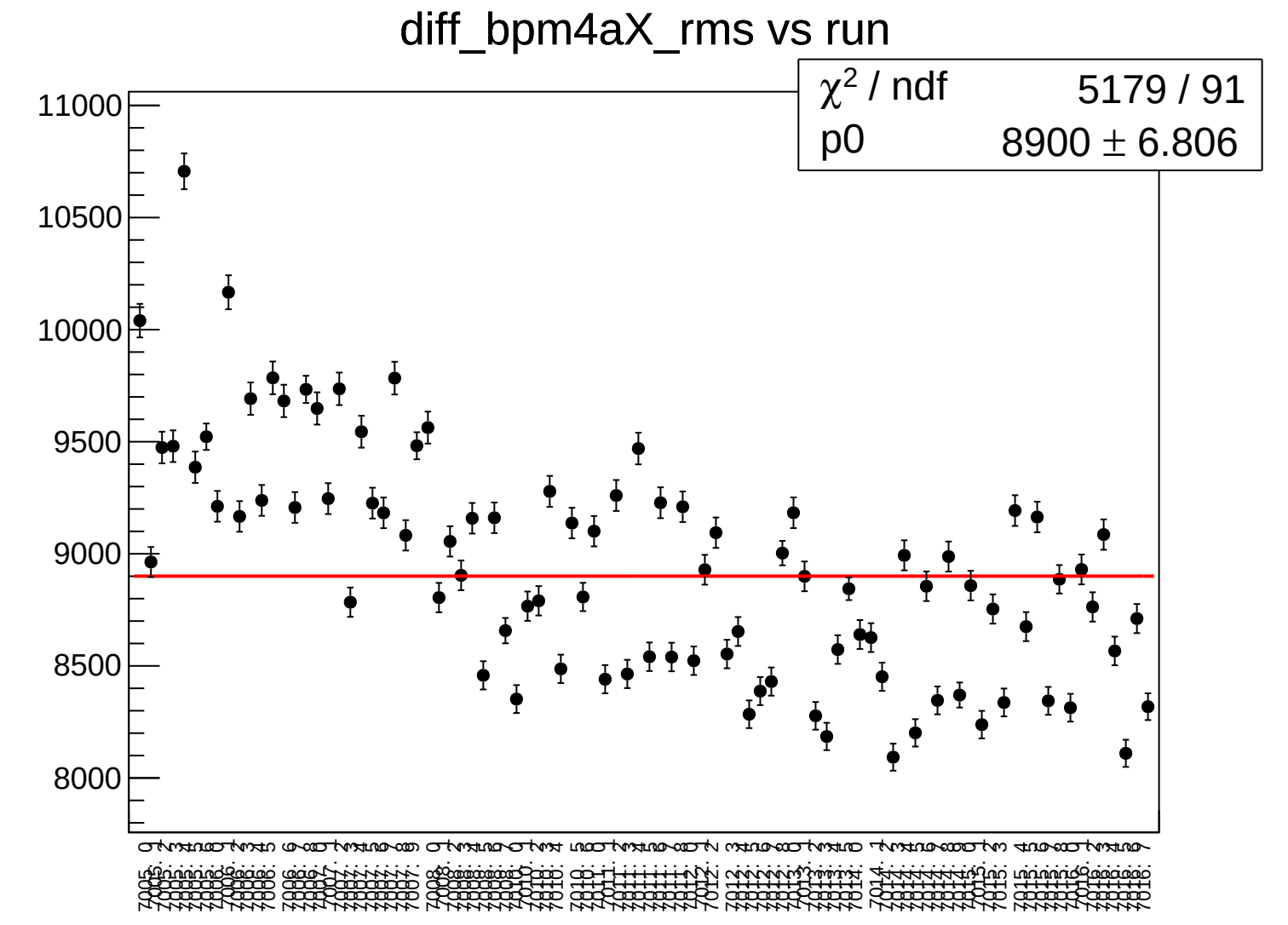

yield_bpm0r05Y_mean vs run
χ² / ndf 3.448e+07 / 91
p0 0.468 ± 7.408e−06
0.54
0.52
0.5
0.48
0.46
0.44
0.42
pull
Entries 92
Mean 1.166e+04
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600

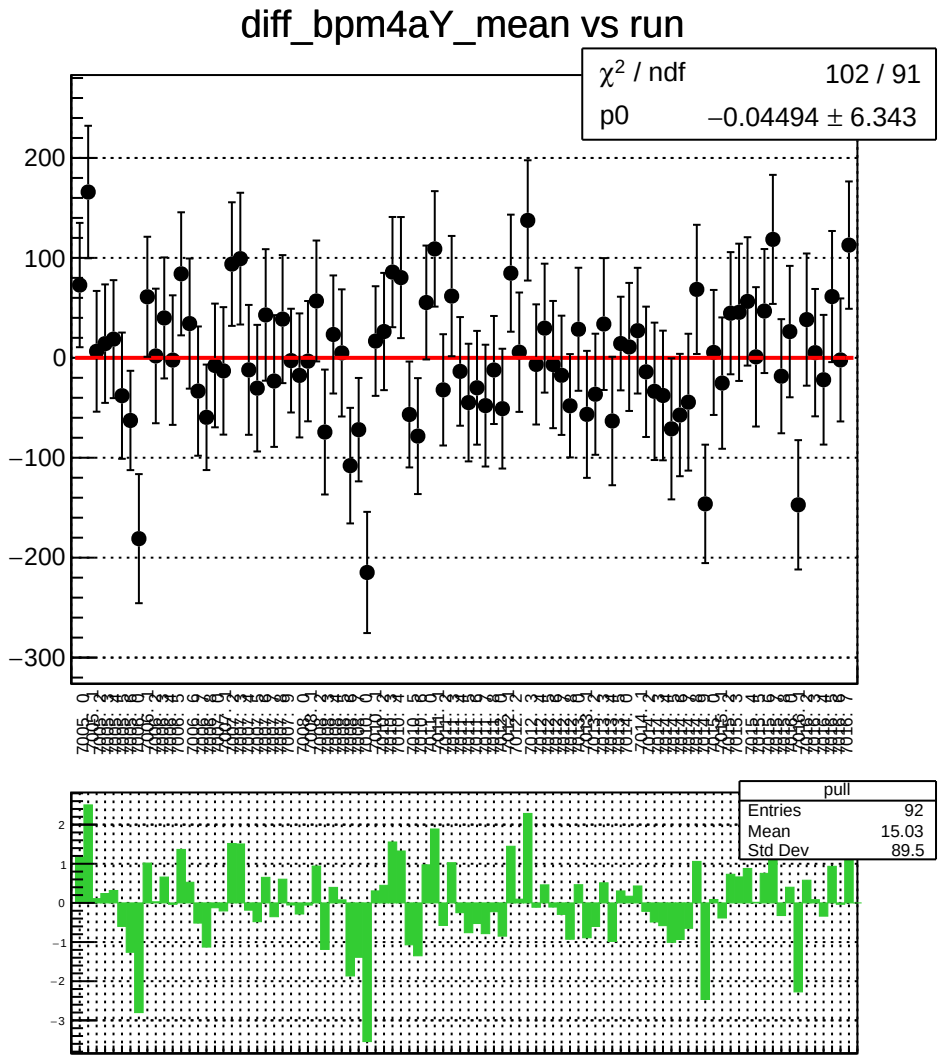

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

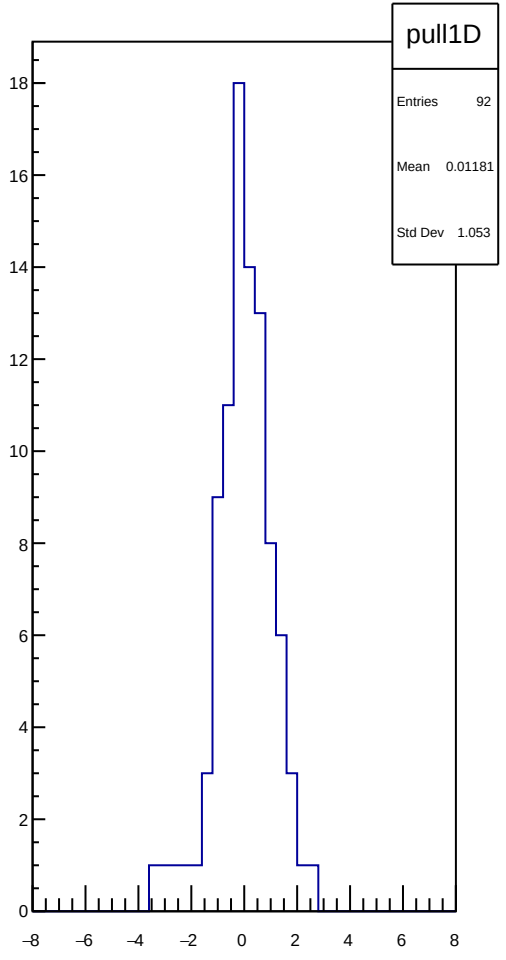

yield_bpm0r05Y_rms vs run
χ² / ndf 2.246e+04 / 91
p0 0.006815 ± 5.238e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

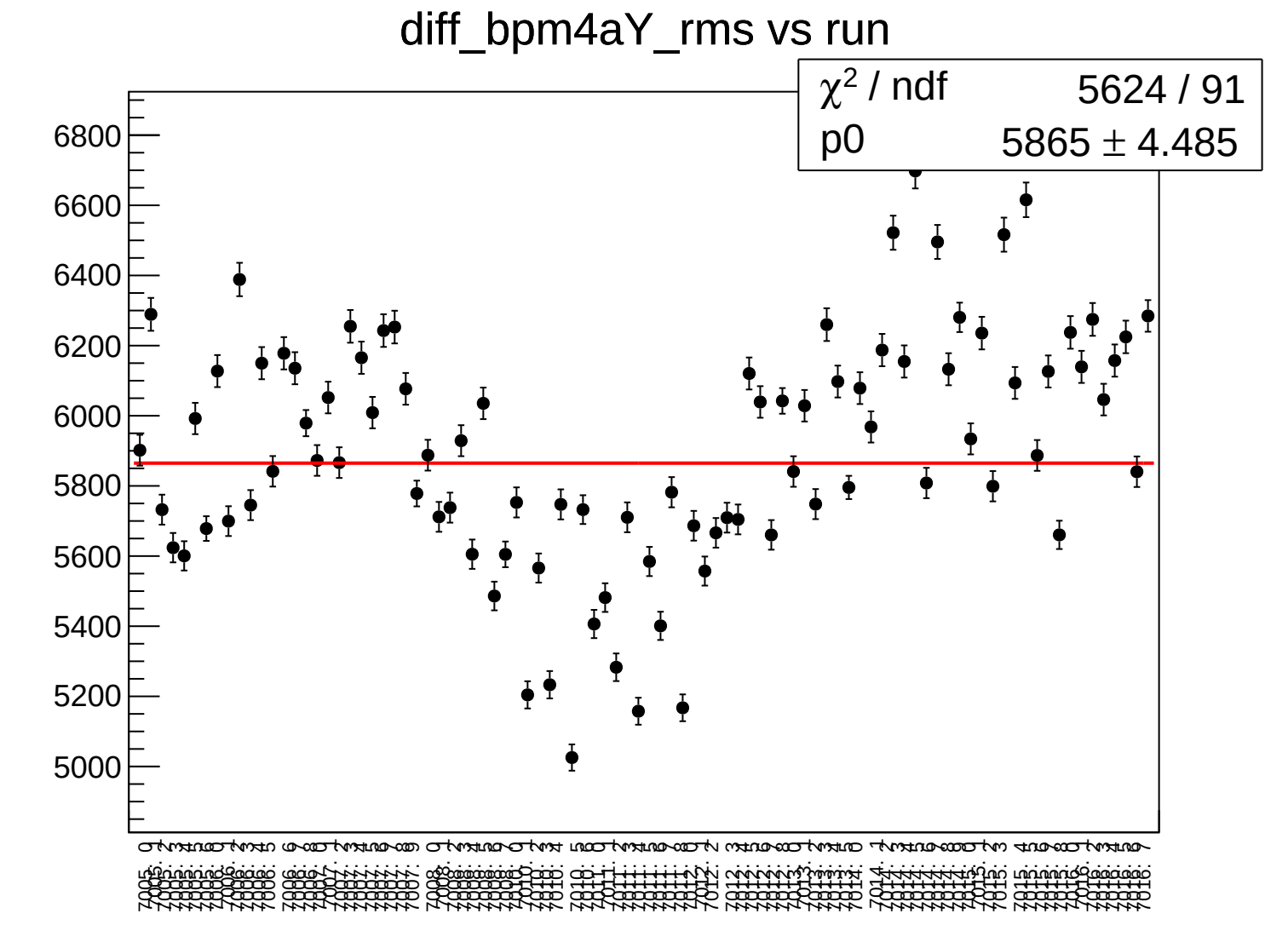

diff_bpm4aX_mean vs run
χ² / ndf 76.09 / 91
p0 −8.685 ± 9.625
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −25.86
Std Dev 34.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

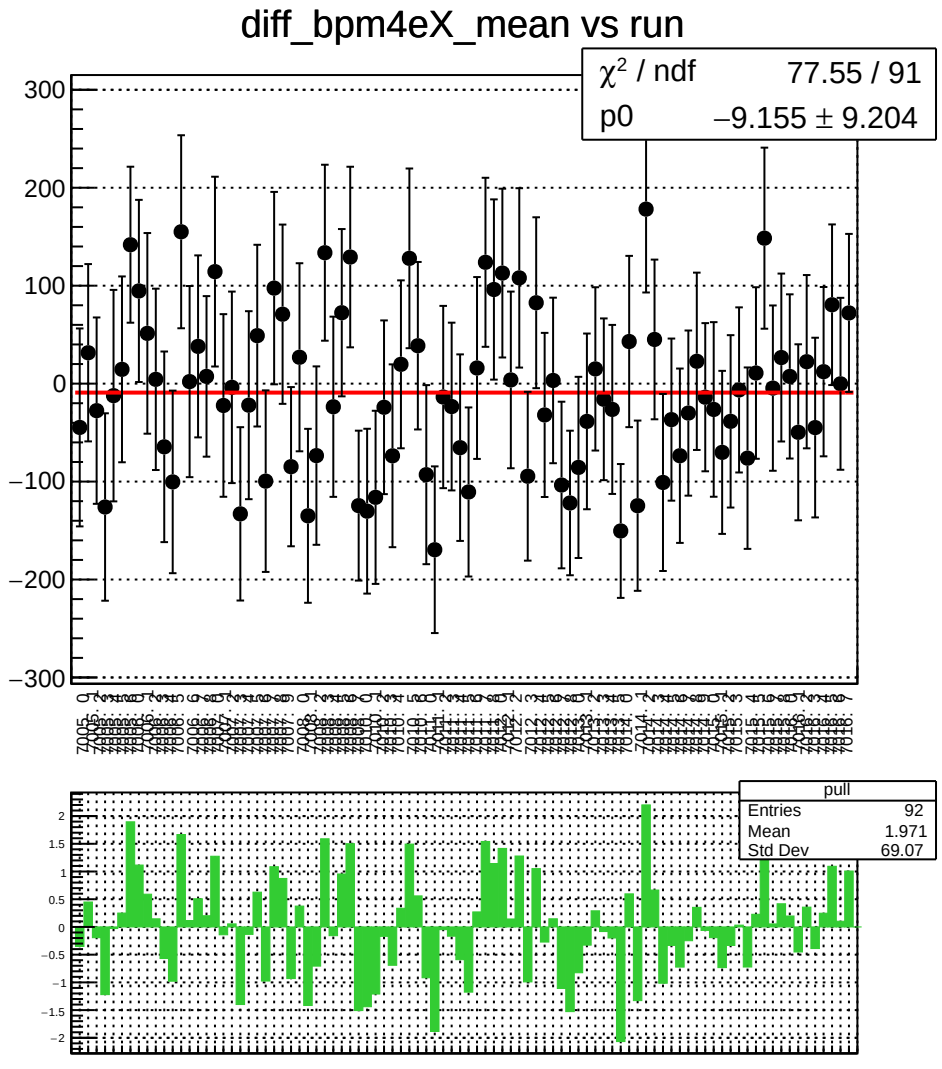

pull1D
Entries 92
Mean 0.0144
Std Dev 0.9093
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

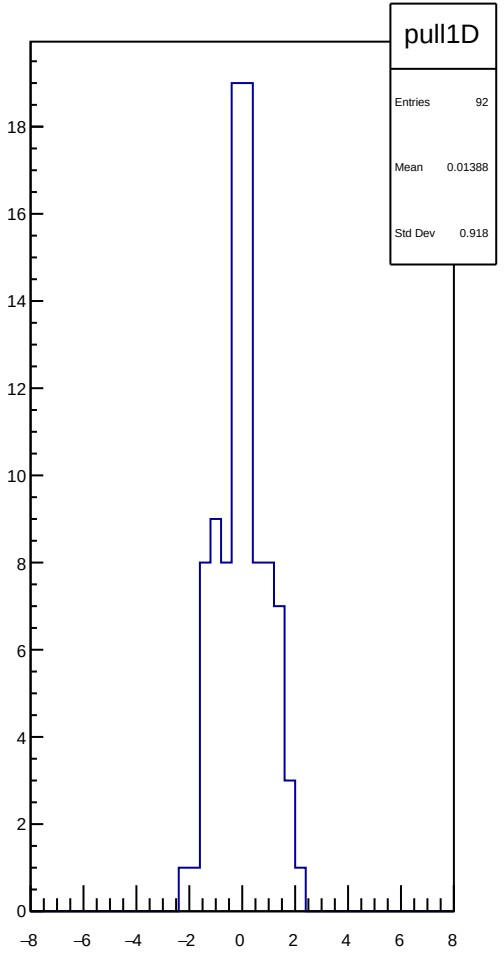

diff_bpm4aX_rms vs run
χ² / ndf 5179 / 91
p0 8900 ± 6.806
11000
10500
10000
9500
9000
8500
8000

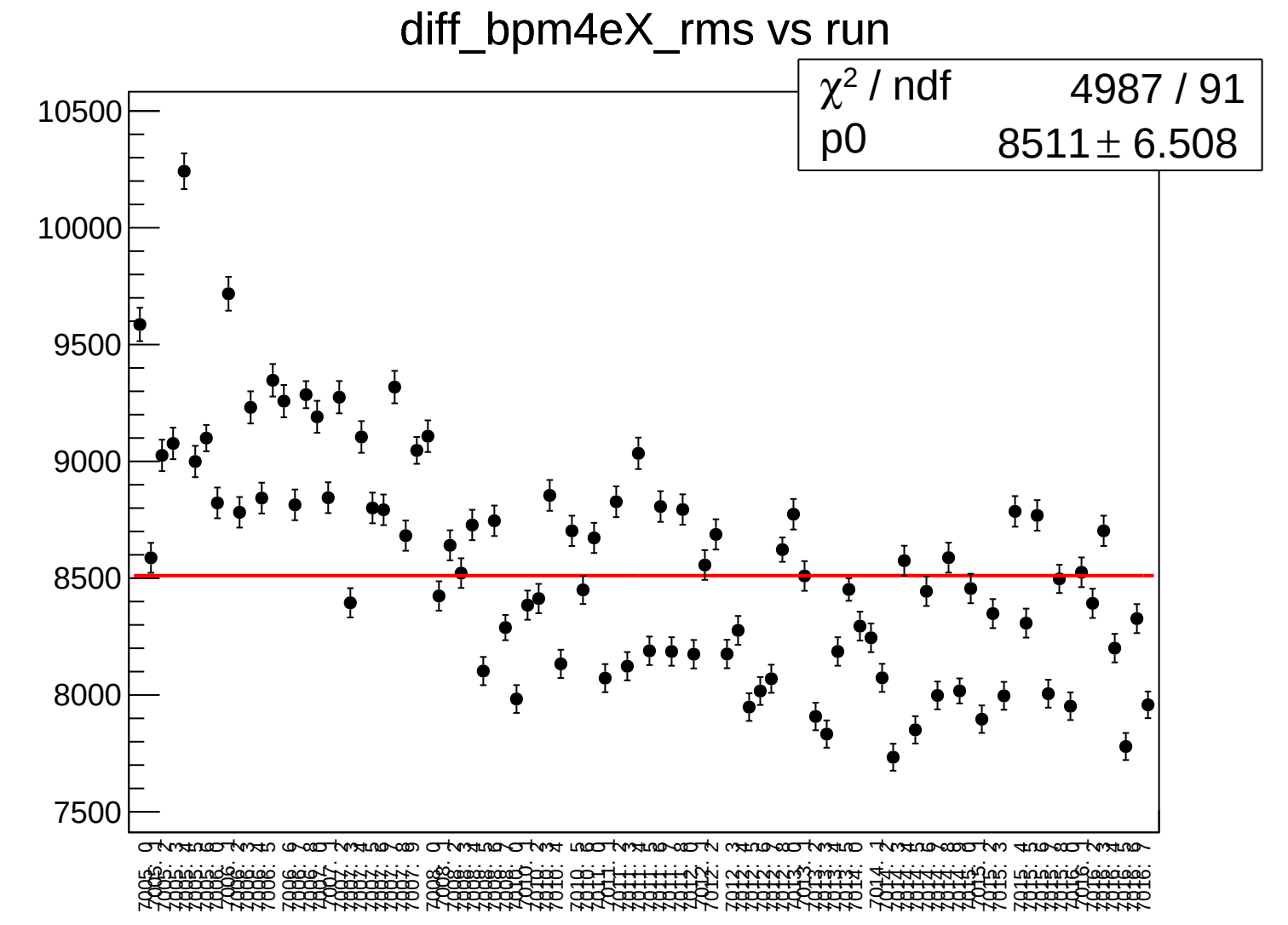

diff_bpm4aY_mean vs run
χ² / ndf 102 / 91
p0 −0.04494 ± 6.343
200
100
0
−100
−200
−300
pull
Entries 92
Mean 15.03
Std Dev 89.5
2
1
0
−1
−2
−3

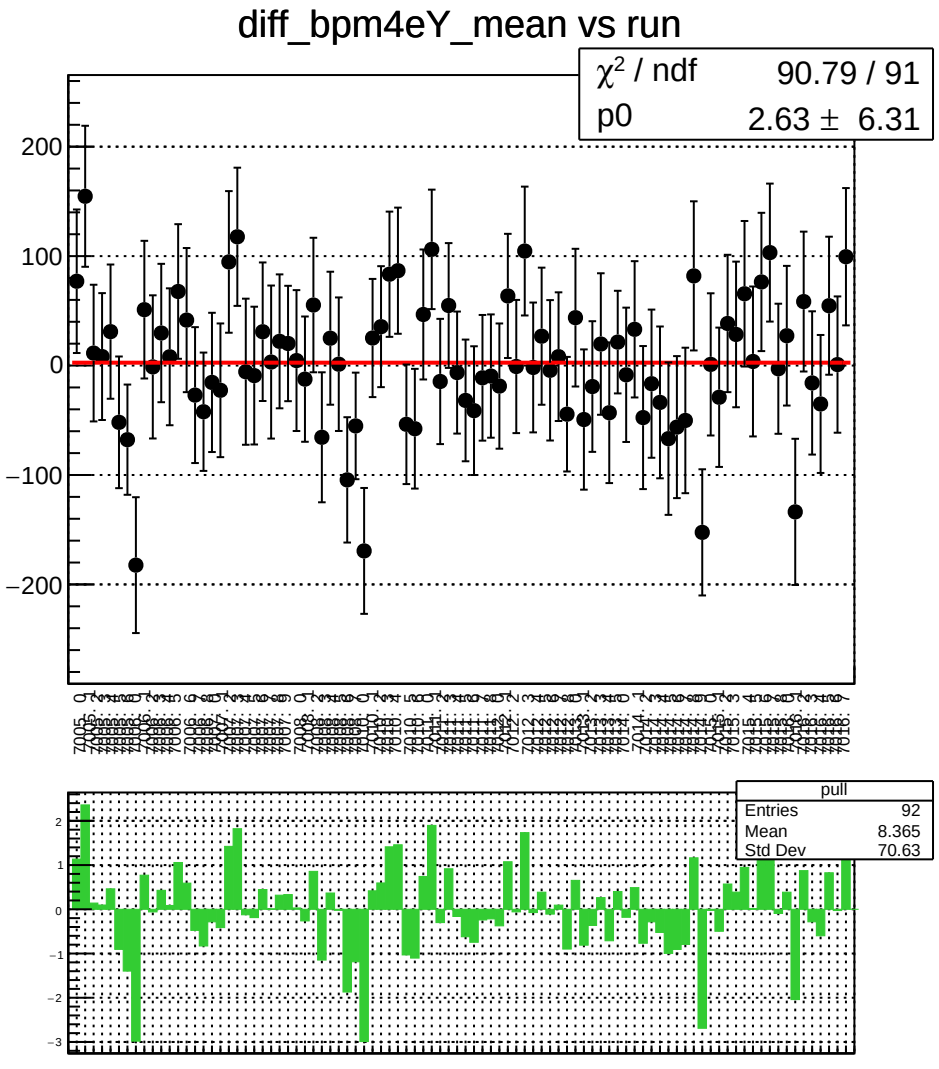

pull1D
Entries 92
Mean 0.01181
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

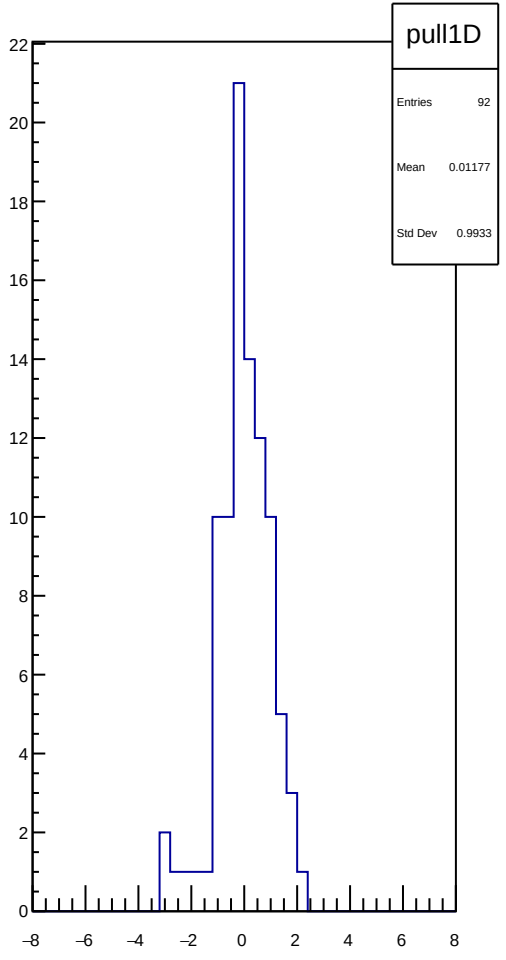

diff_bpm4aY_rms vs run
χ² / ndf 5624 / 91
p0 5865 ± 4.485
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

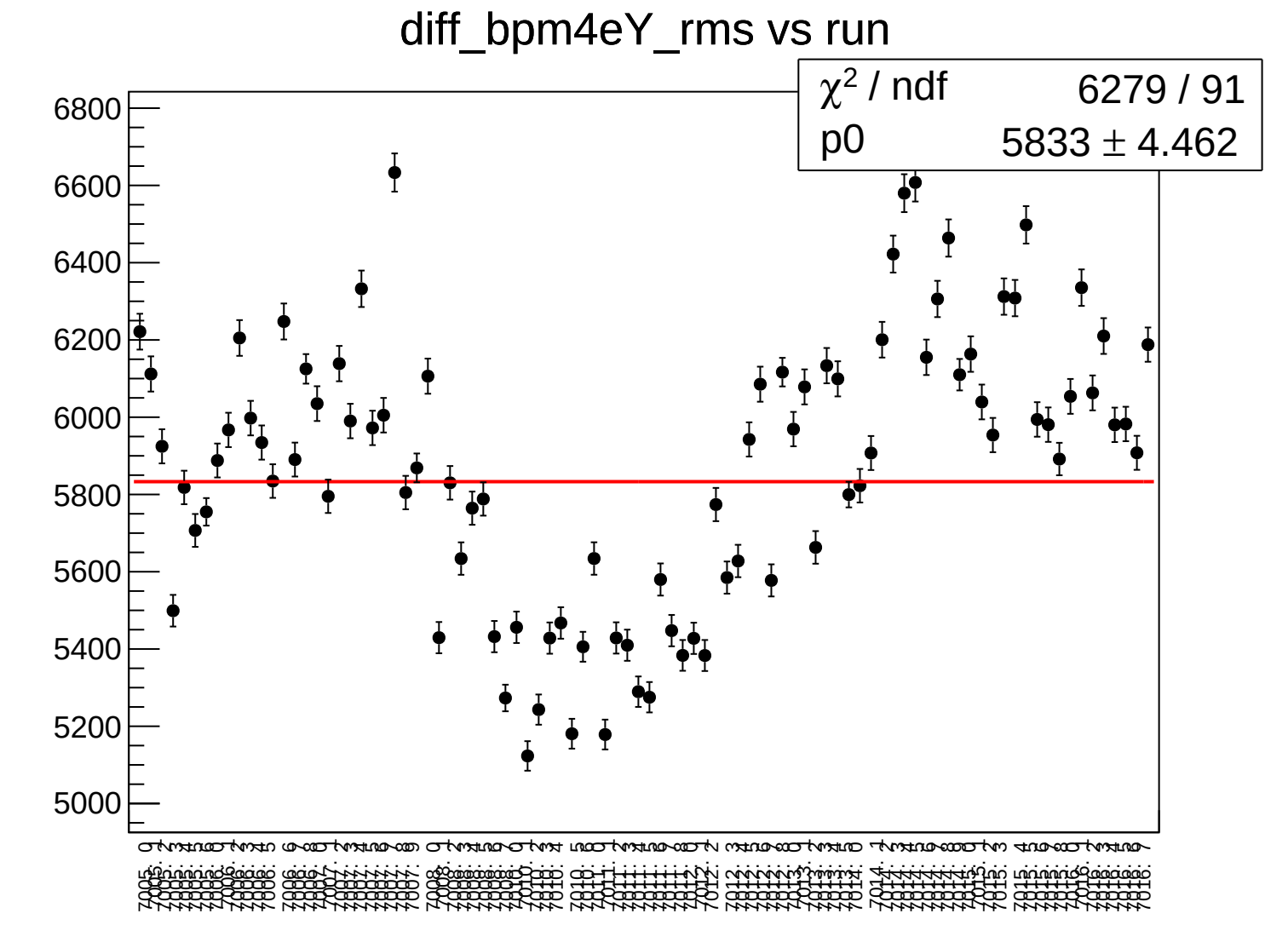

diff_bpm4eX_mean vs run
χ² / ndf 77.55 / 91
p0 −9.155 ± 9.204
pull
Entries 92
Mean 1.971
Std Dev 69.07

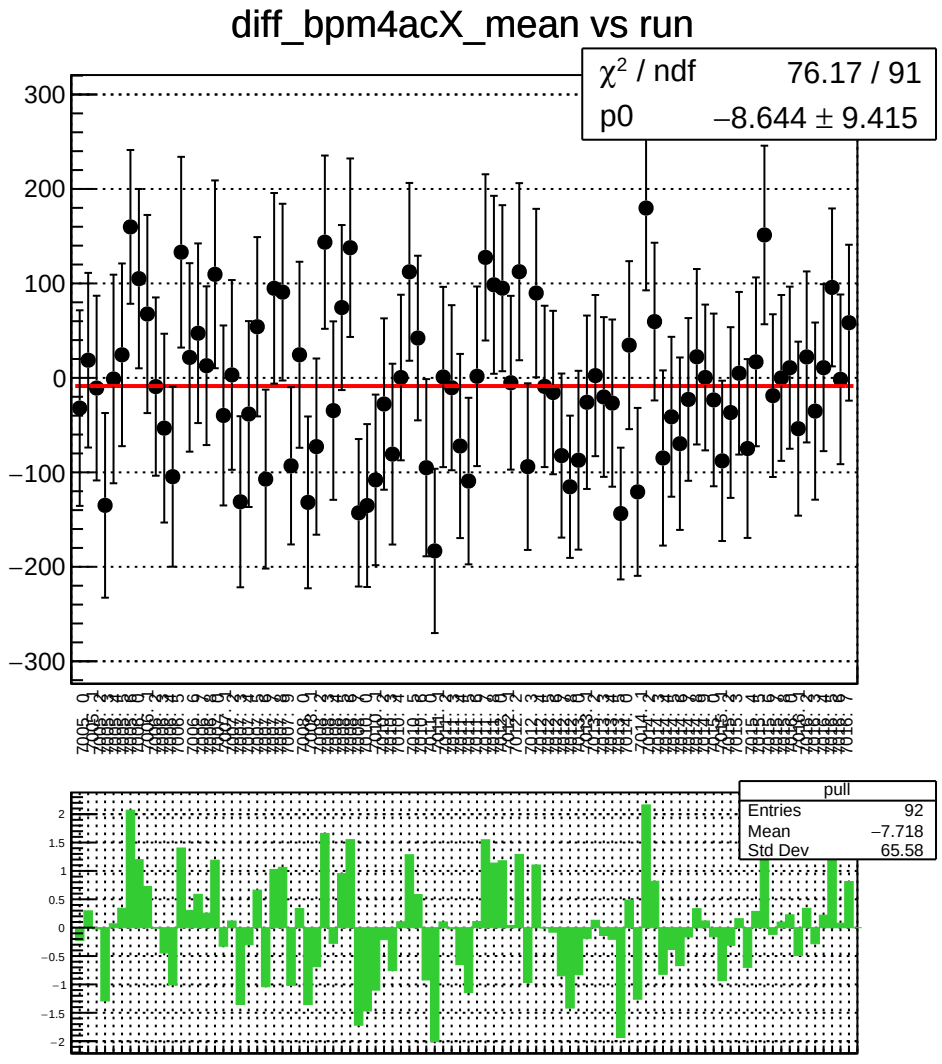

pull1D
Entries 92
Mean 0.01388
Std Dev 0.918

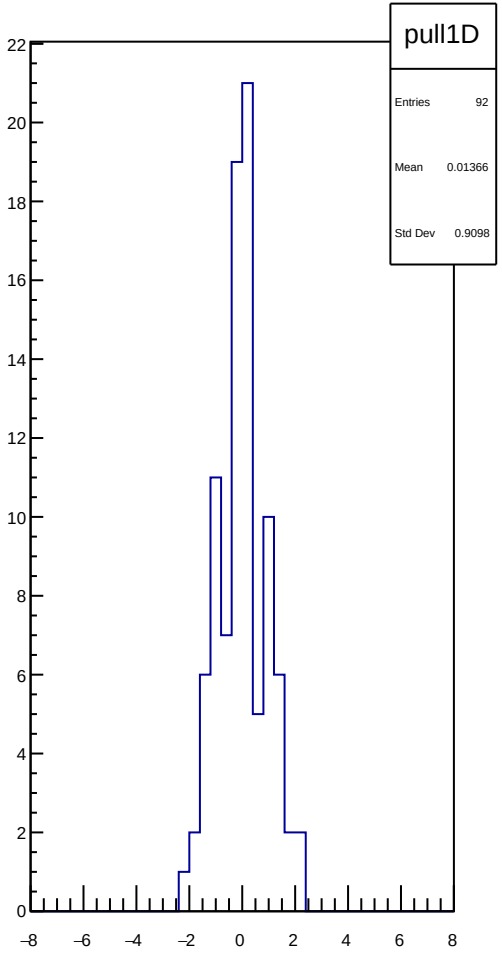

diff_bpm4eX_rms vs run
χ² / ndf 4987 / 91
p0 8511 ± 6.508
10500
10000
9500
9000
8500
8000
7500

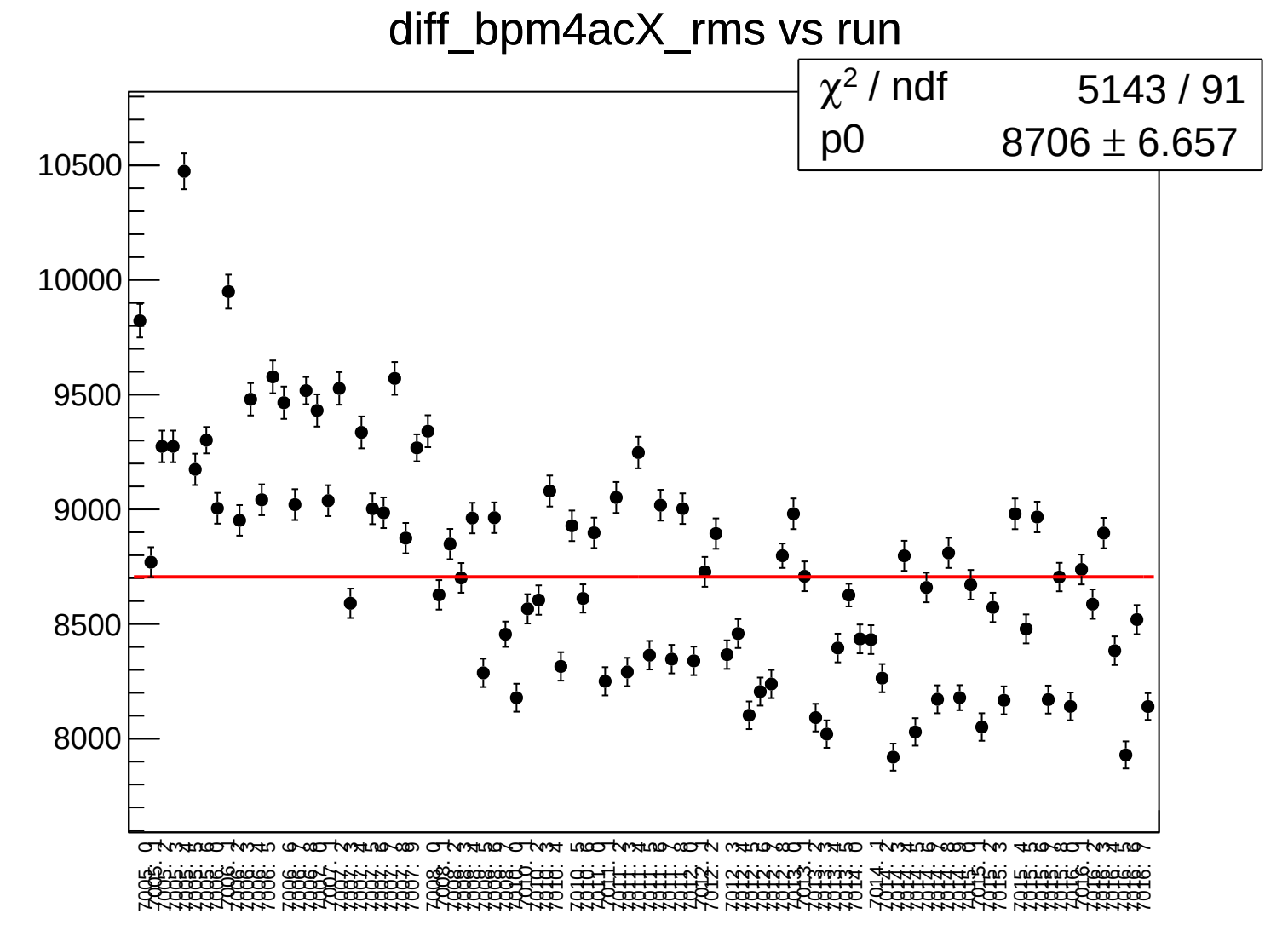

diff_bpm4eY_mean vs run
χ² / ndf 90.79 / 91
p0 2.63 ± 6.31
200
100
0
−100
−200
pull
Entries 92
Mean 8.365
Std Dev 70.63
2
1
0
−1
−2
−3

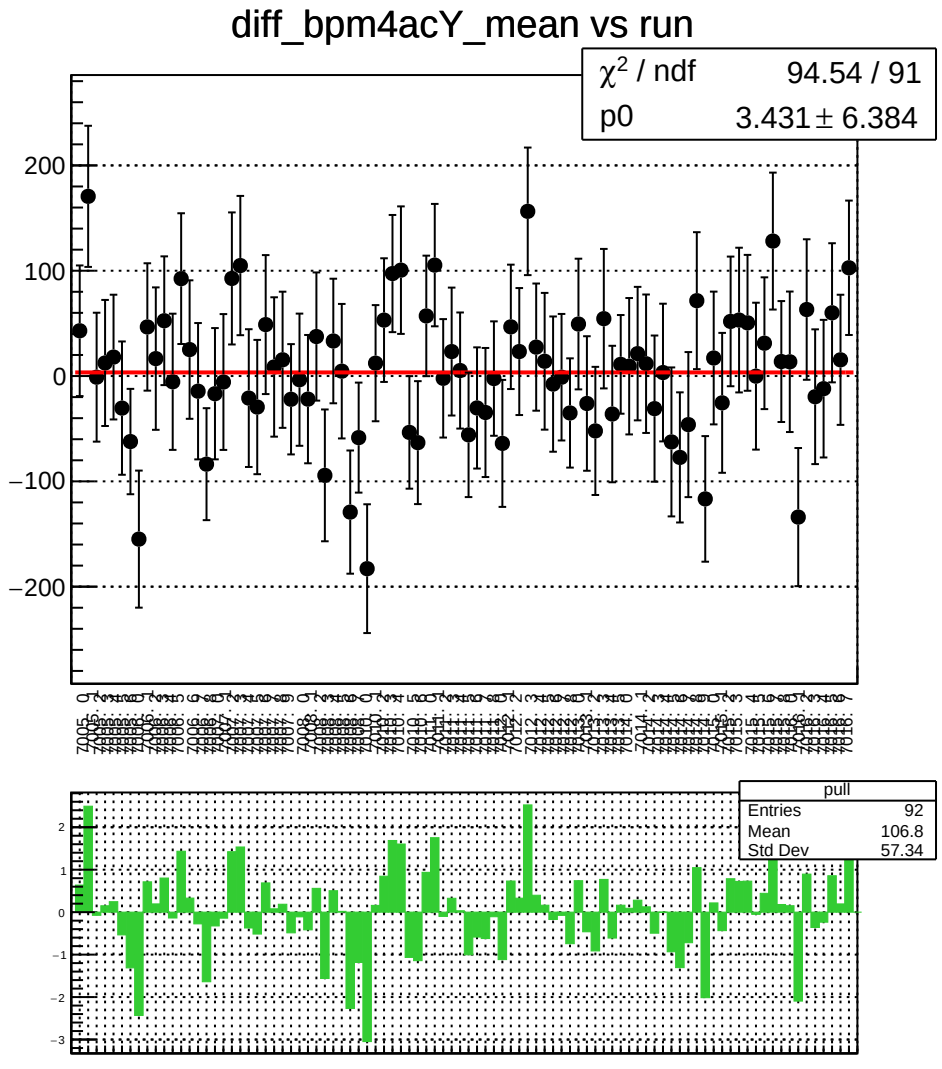

pull1D
Entries 92
Mean 0.01177
Std Dev 0.9933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

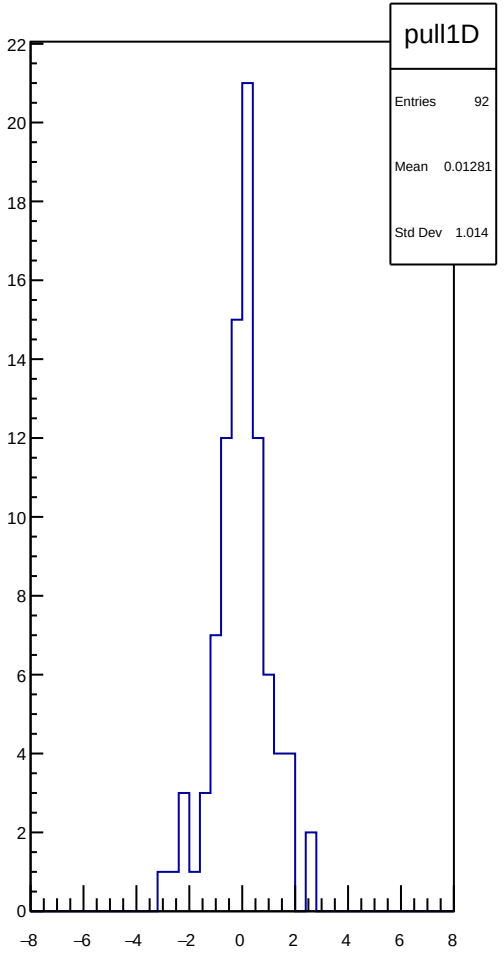

diff_bpm4eY_rms vs run
χ² / ndf 6279 / 91
p0 5833 ± 4.462
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

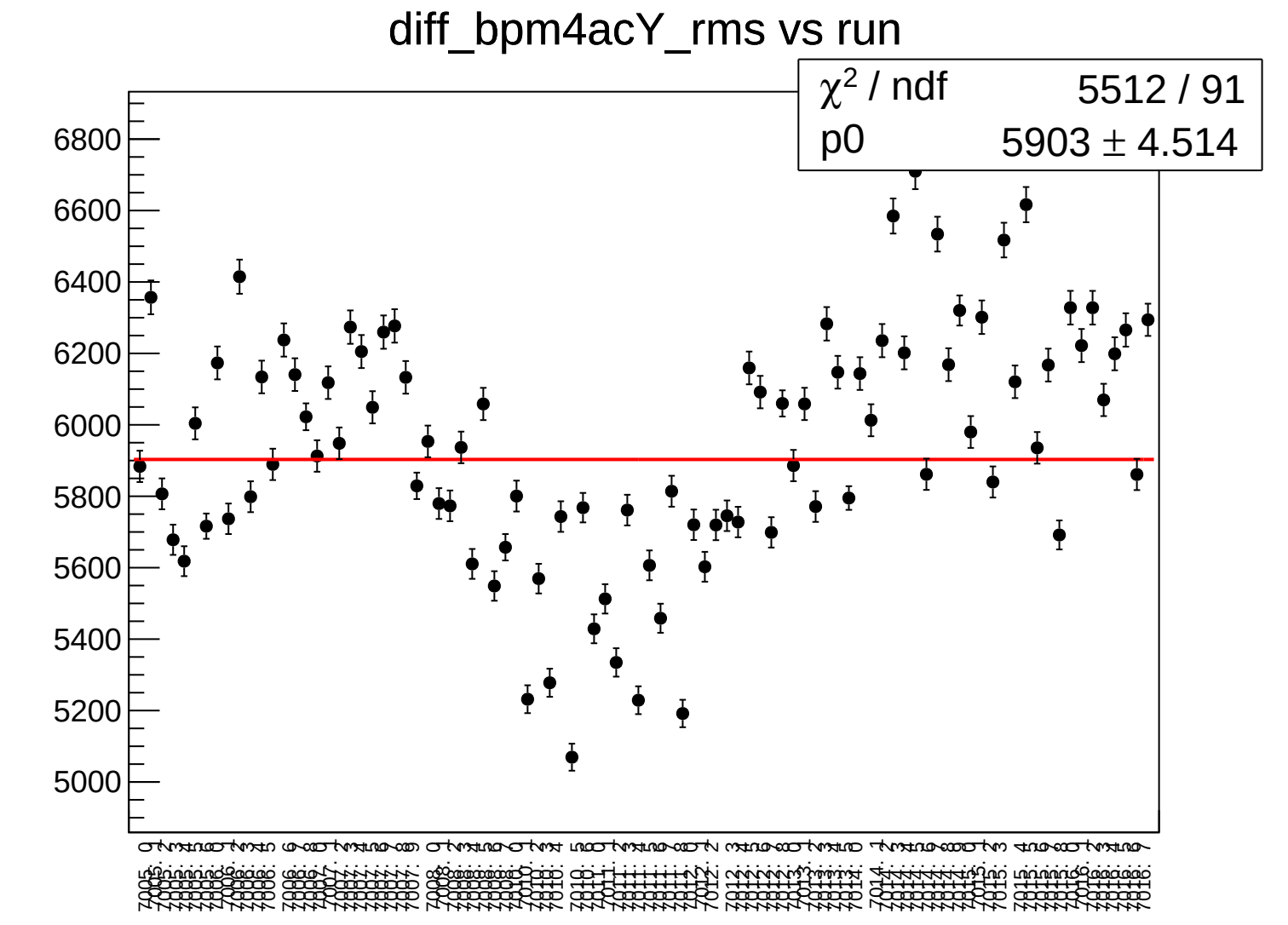

diff_bpm4acX_mean vs run
χ² / ndf 76.17 / 91
p0 −8.644 ± 9.415
pull
Entries 92
Mean −7.718
Std Dev 65.58

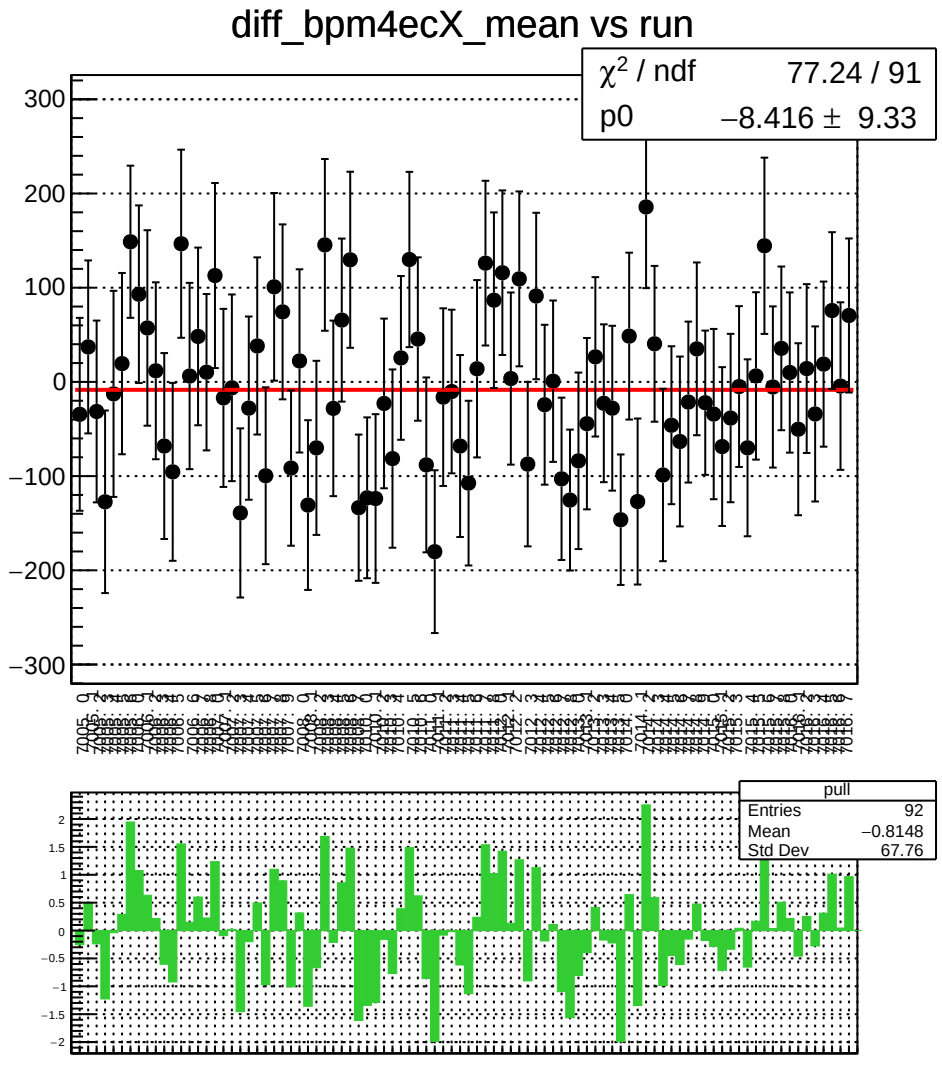

pull1D
Entries 92
Mean 0.01366
Std Dev 0.9098

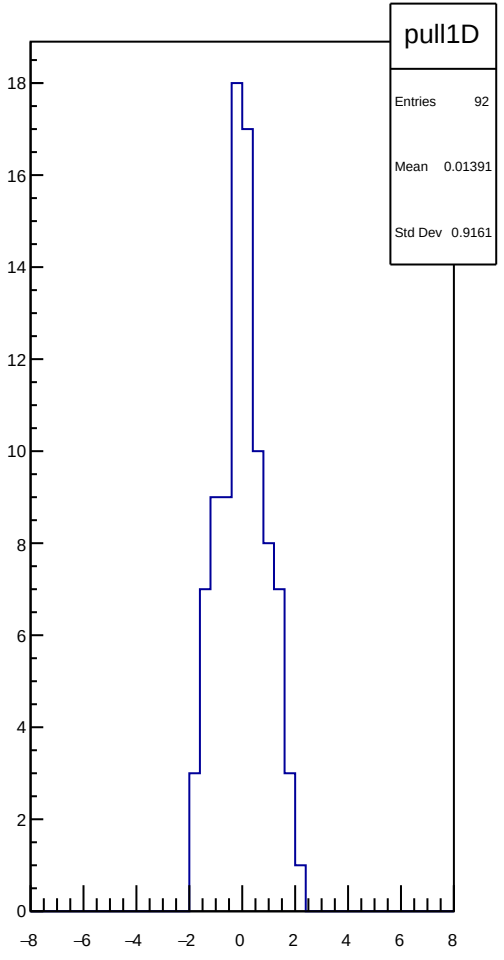

diff_bpm4acX_rms vs run
$\chi^2$ / ndf 5143 / 91
p0 8706 ± 6.657
10500
10000
9500
9000
8500
8000

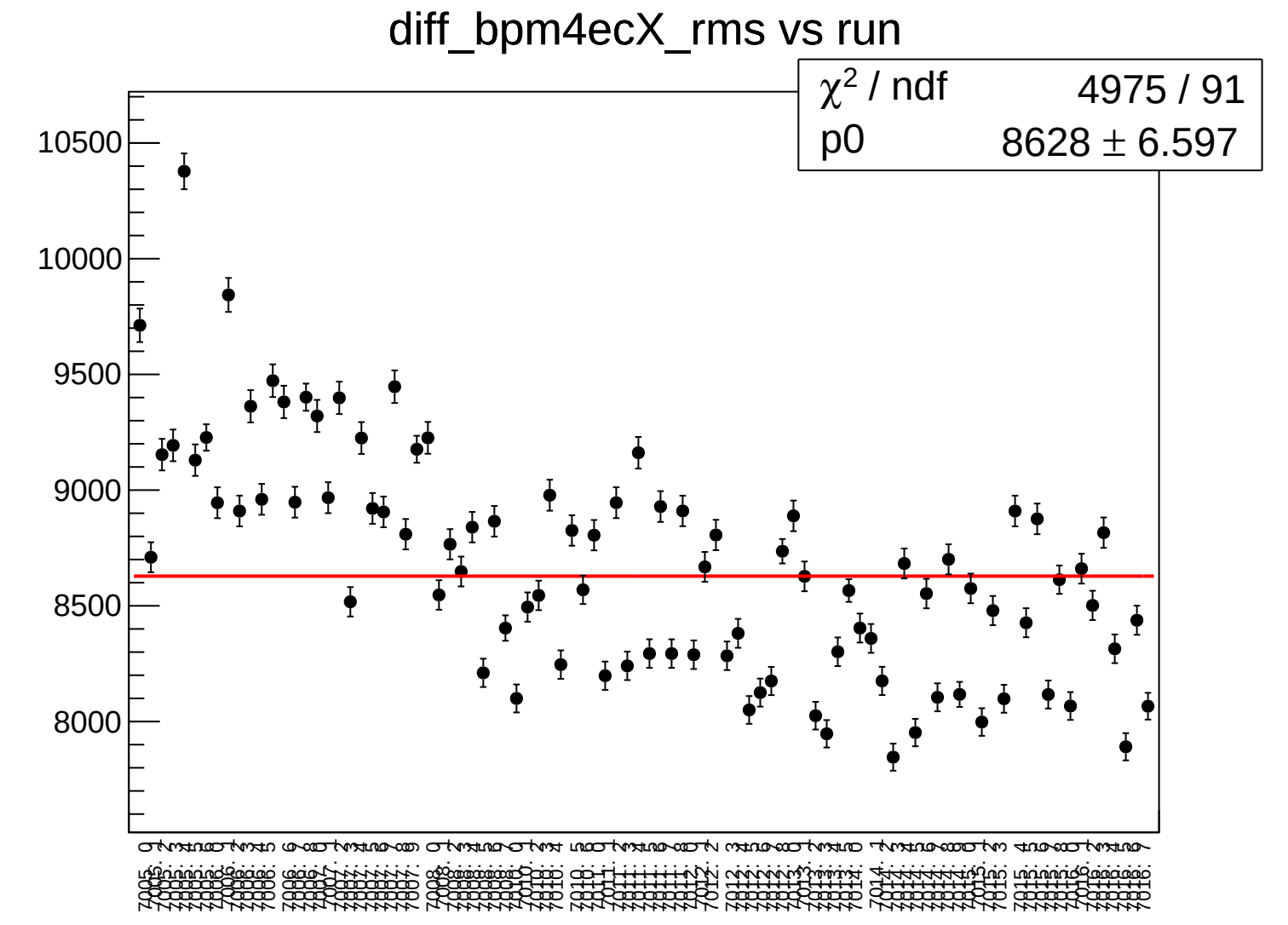

diff_bpm4acY_mean vs run
$\chi^2$ / ndf 94.54 / 91
p0 3.431 ± 6.384
200
100
0
−100
−200
pull
Entries 92
Mean 106.8
Std Dev 57.34
2
1
0
−1
−2
−3

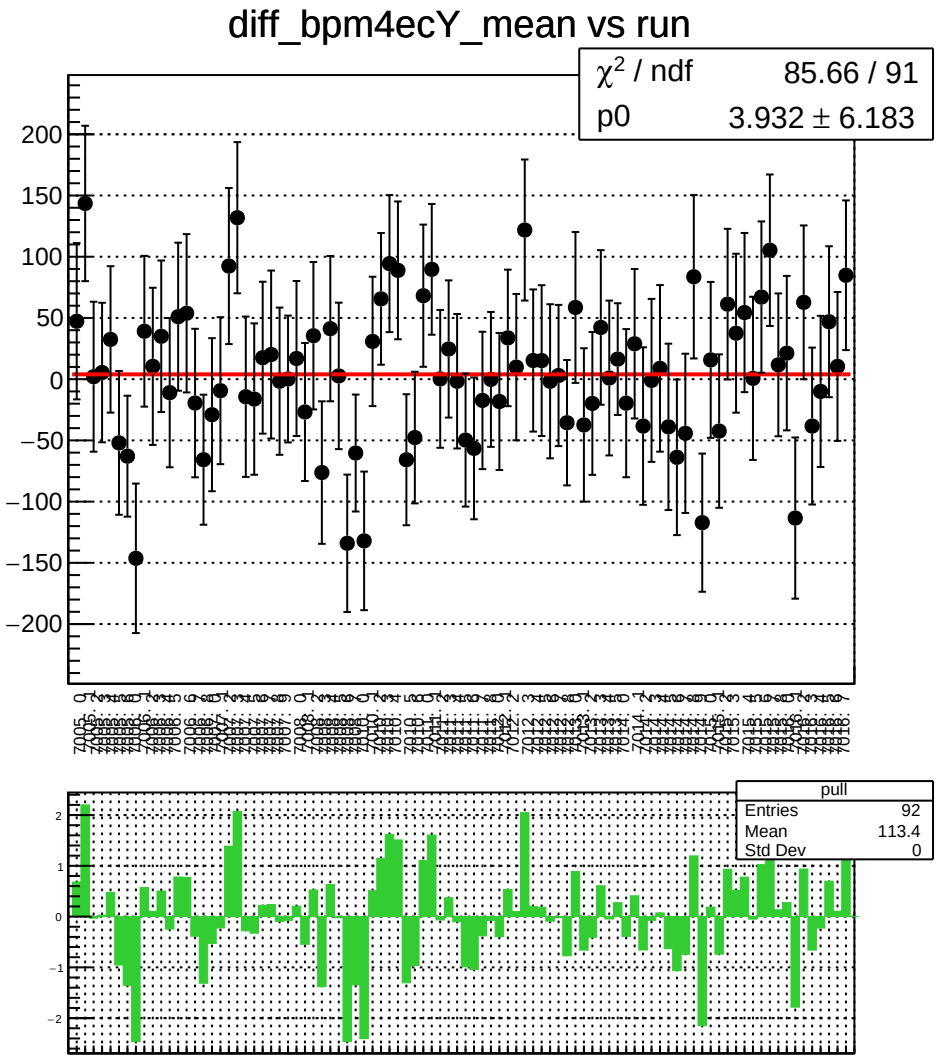

pull1D
Entries 92
Mean 0.01281
Std Dev 1.014
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

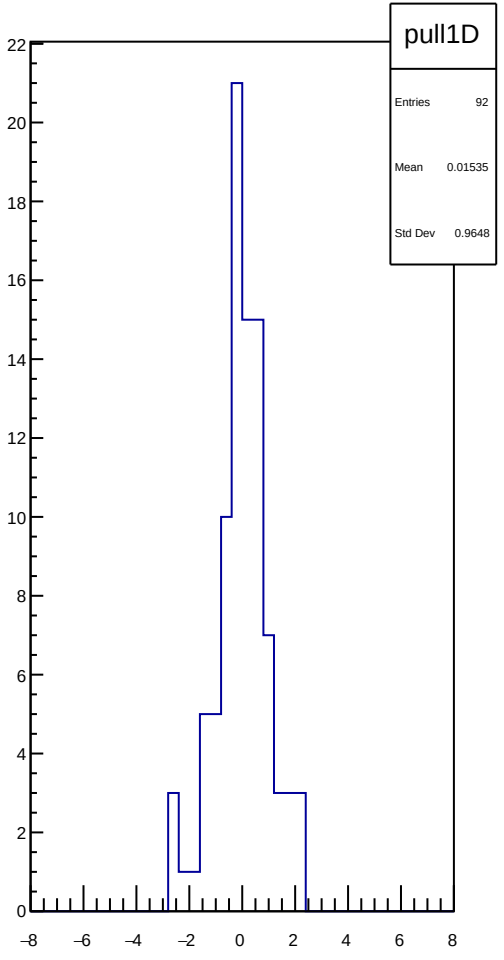

diff_bpm4acY_rms vs run
χ² / ndf 5512 / 91
p0 5903 ± 4.514
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

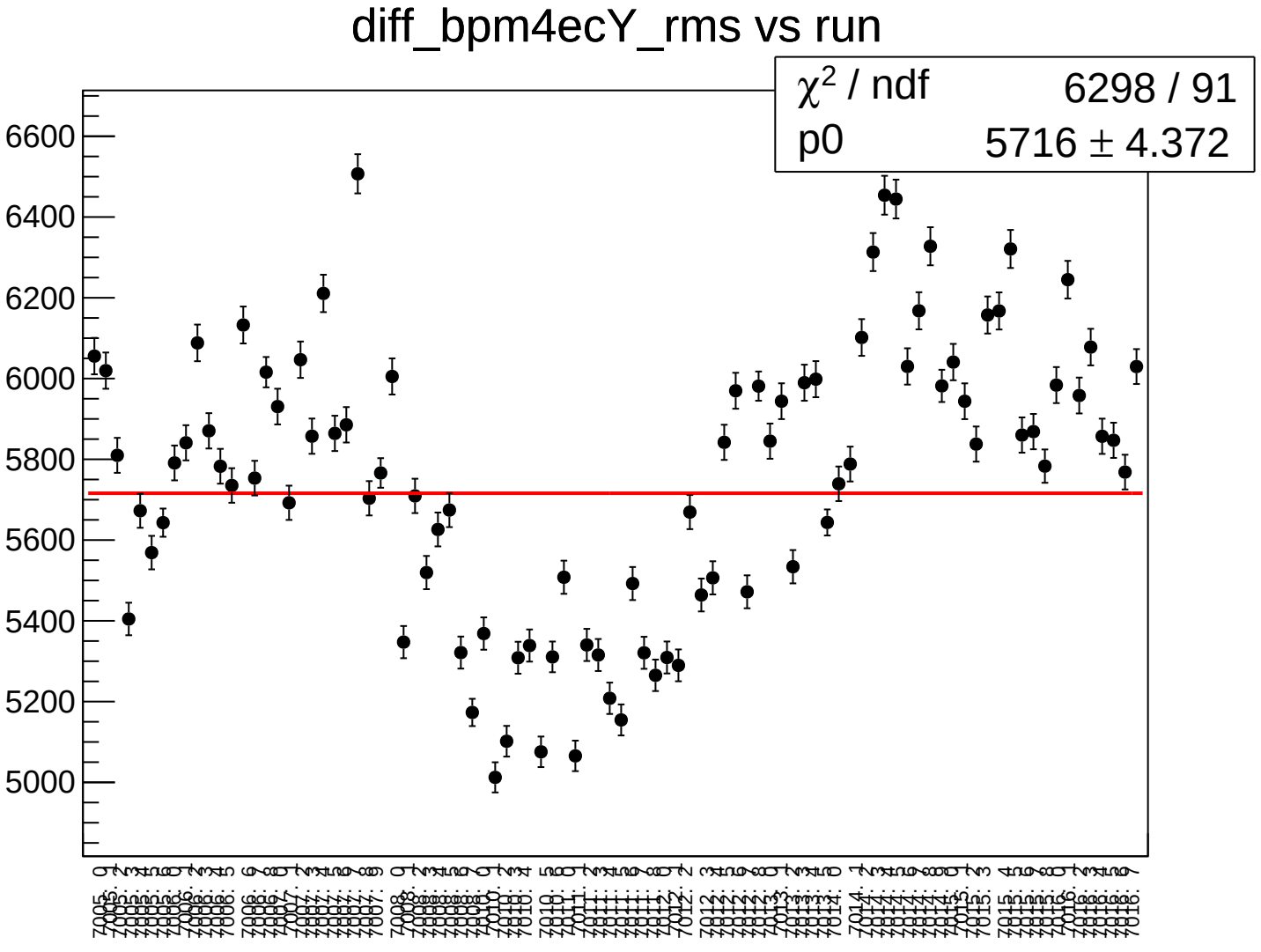

diff_bpm4ecX_mean vs run
χ² / ndf 77.24 / 91
p0 −8.416 ± 9.33
pull
Entries 92
Mean −0.8148
Std Dev 67.76

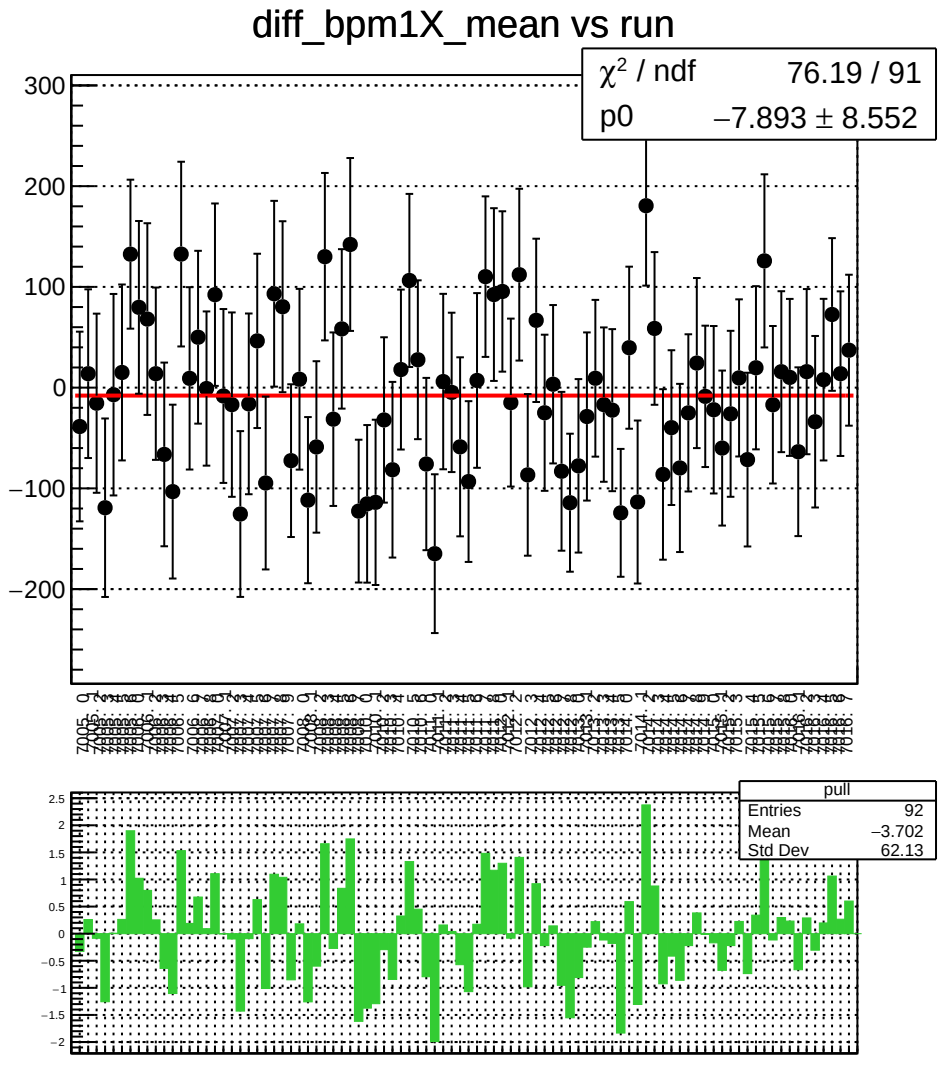

pull1D
Entries 92
Mean 0.01391
Std Dev 0.9161

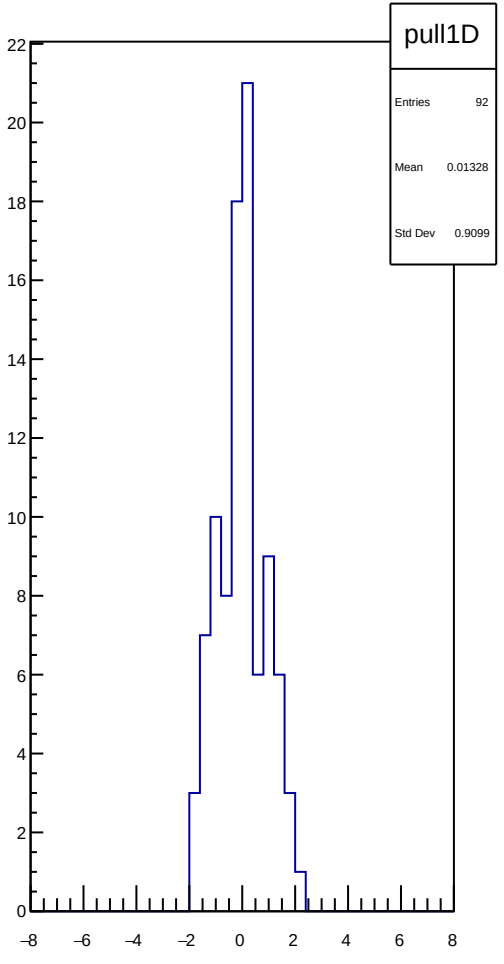

diff_bpm4ecX_rms vs run
χ² / ndf 4975 / 91
p0 8628 ± 6.597
10500
10000
9500
9000
8500
8000

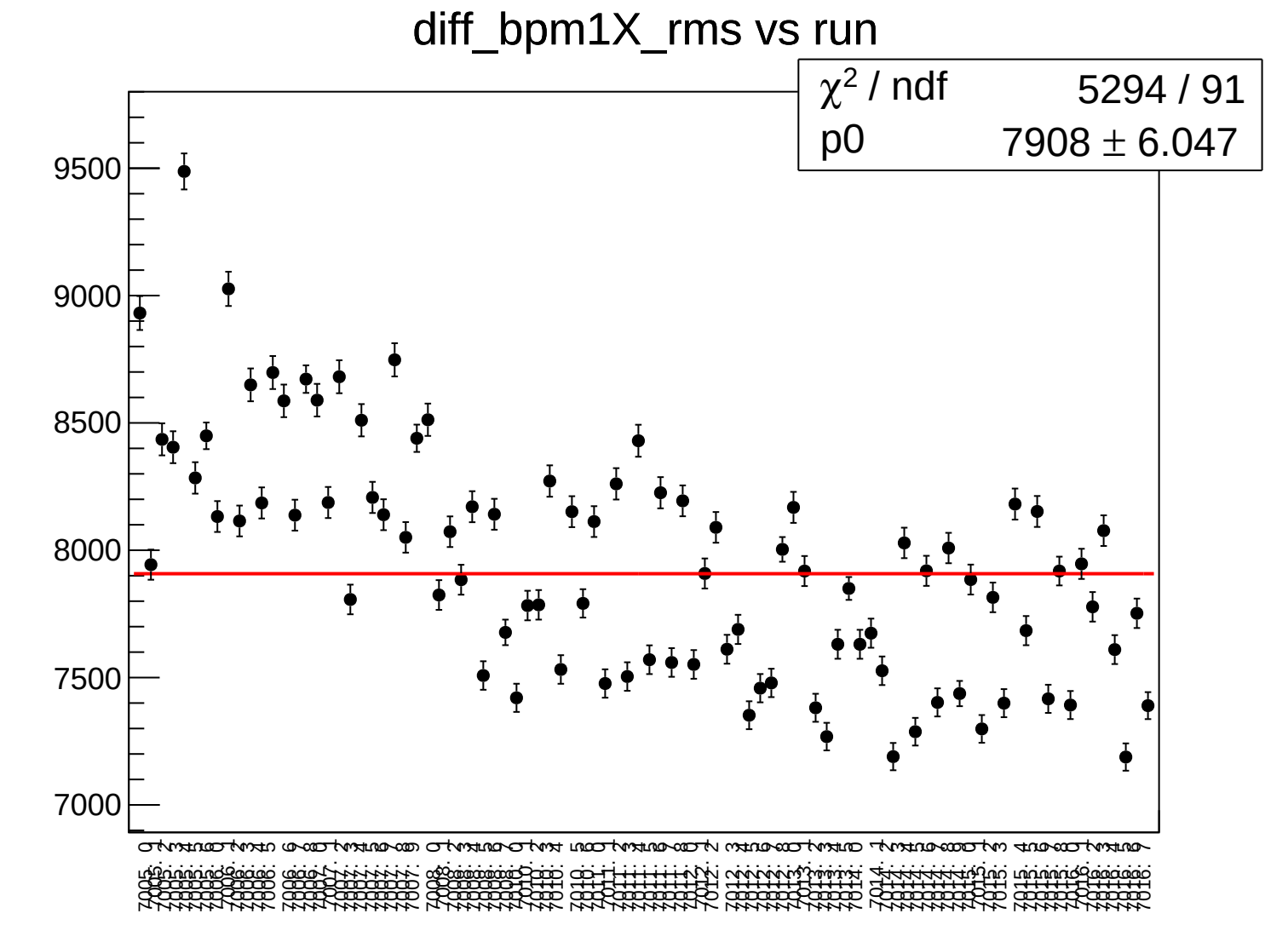

diff_bpm4ecY_mean vs run
χ² / ndf 85.66 / 91
p0 3.932 ± 6.183
pull
Entries 92
Mean 113.4
Std Dev 0

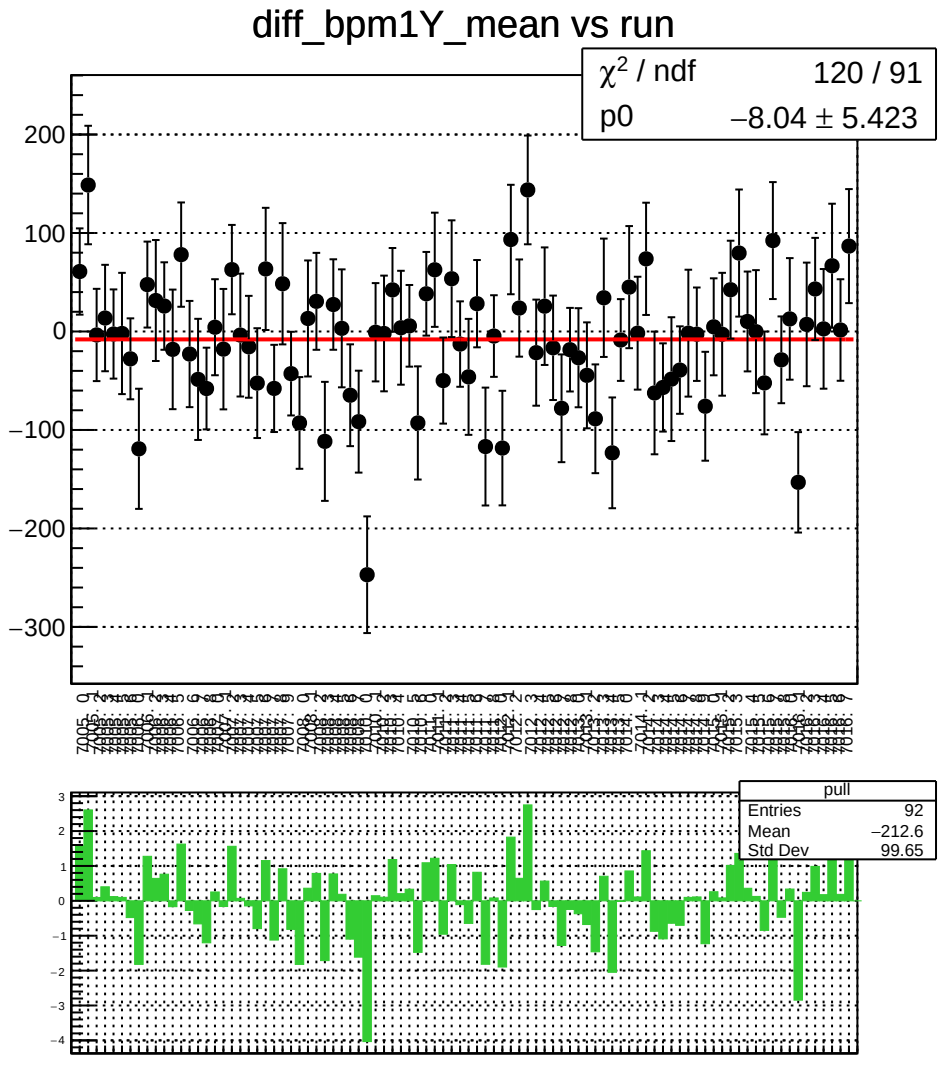

pull1D
Entries 92
Mean 0.01535
Std Dev 0.9648

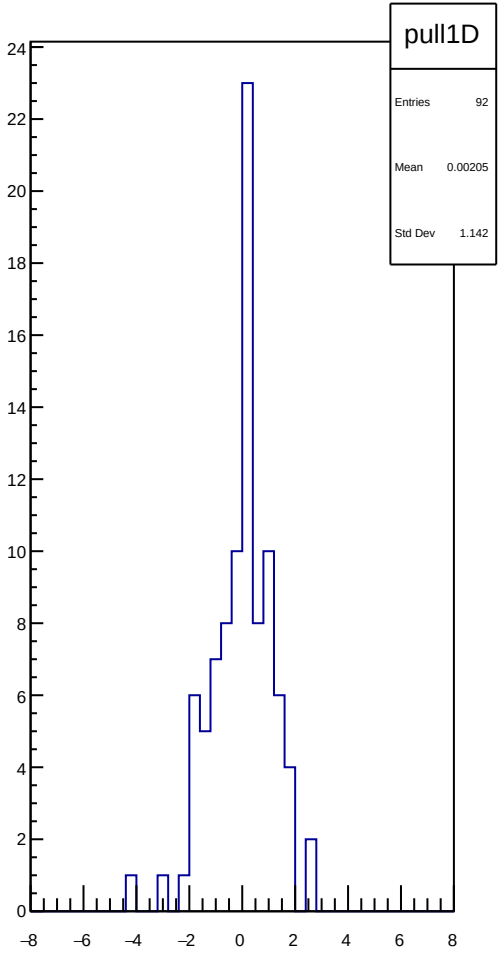

diff_bpm4ecY_rms vs run
χ² / ndf 6298 / 91
p0 5716 ± 4.372
6600
6400
6200
6000
5800
5600
5400
5200
5000

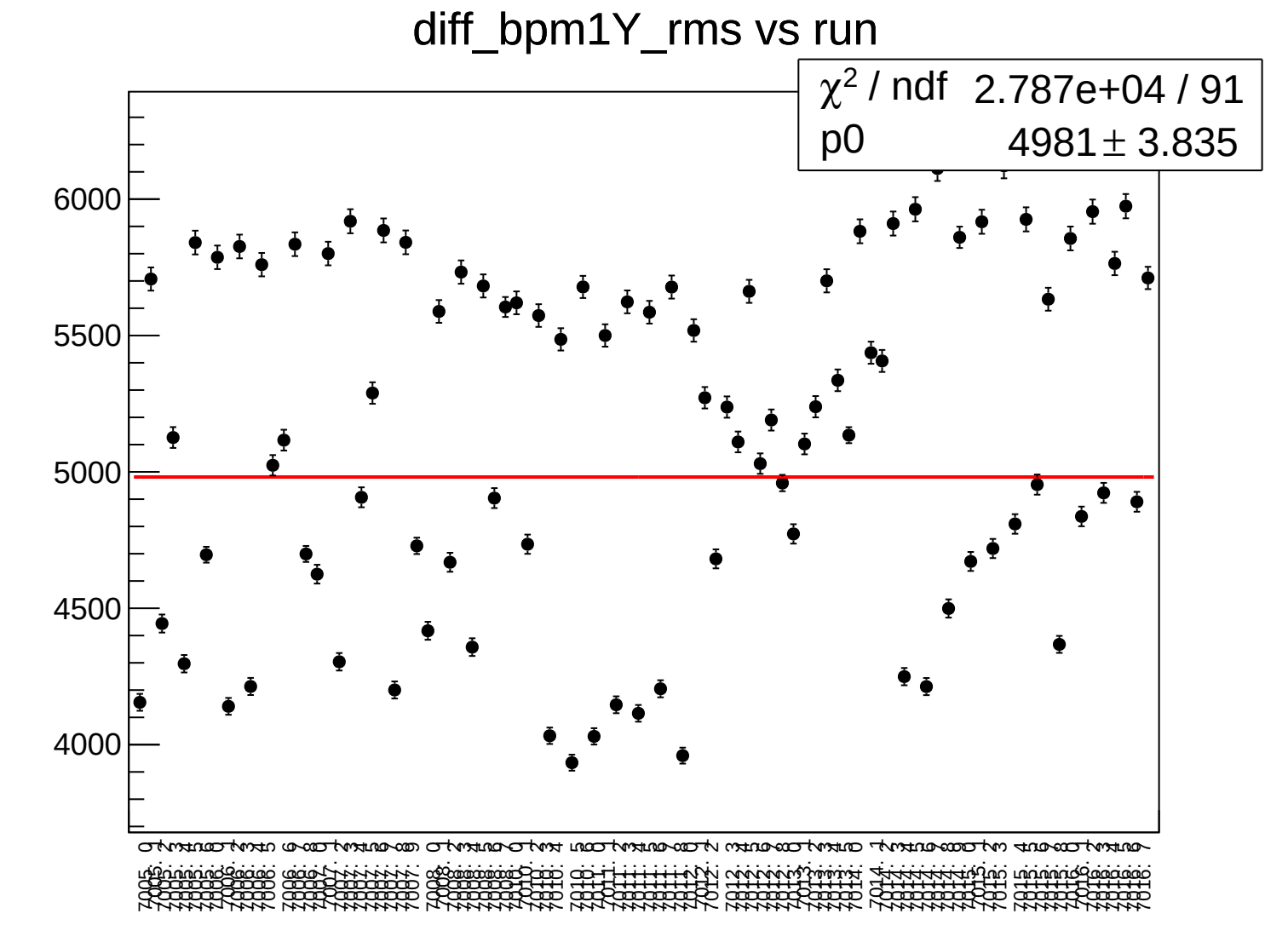

diff_bpm1X_mean vs run
χ² / ndf 76.19 / 91
p0 −7.893 ± 8.552
pull
Entries 92
Mean −3.702
Std Dev 62.13

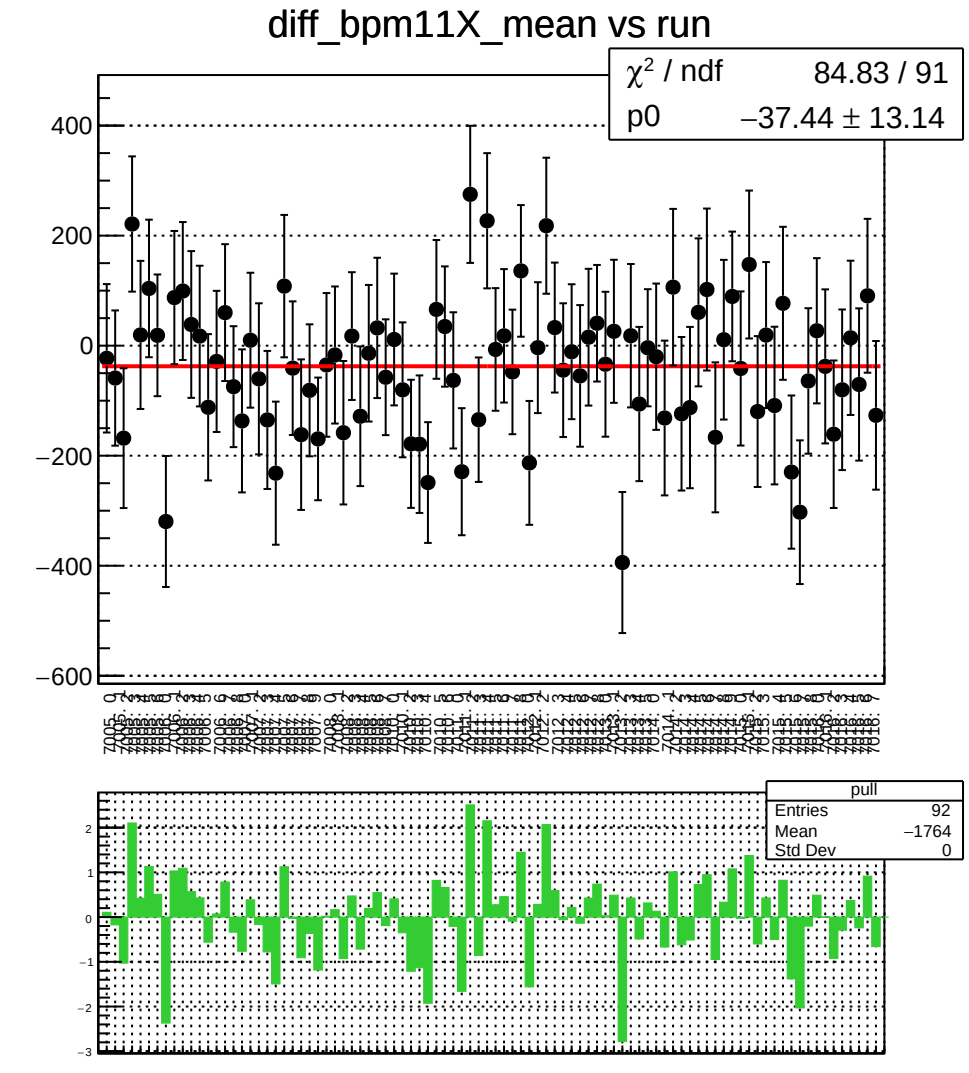

pull1D
Entries 92
Mean 0.01328
Std Dev 0.9099

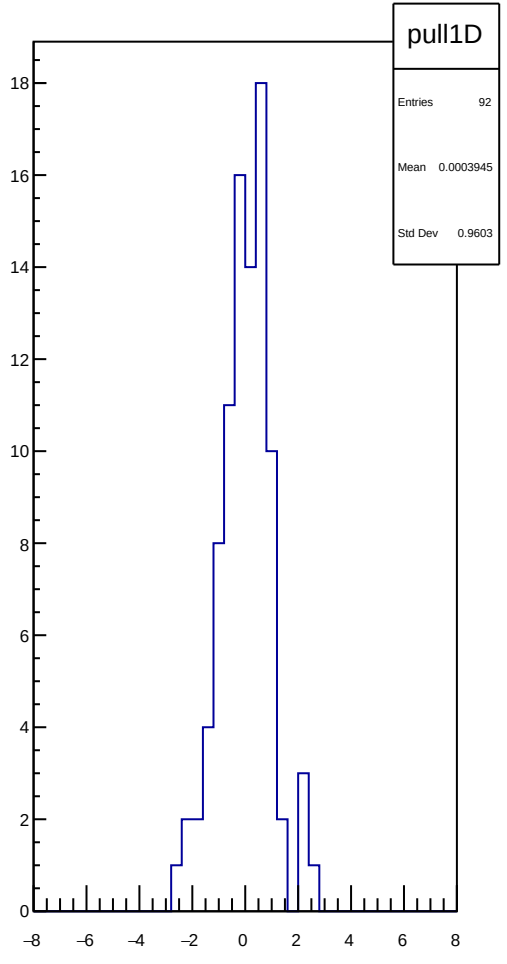

diff_bpm1X_rms vs run
$\chi^2$ / ndf 5294 / 91
p0 7908 ± 6.047
9500
9000
8500
8000
7500
7000

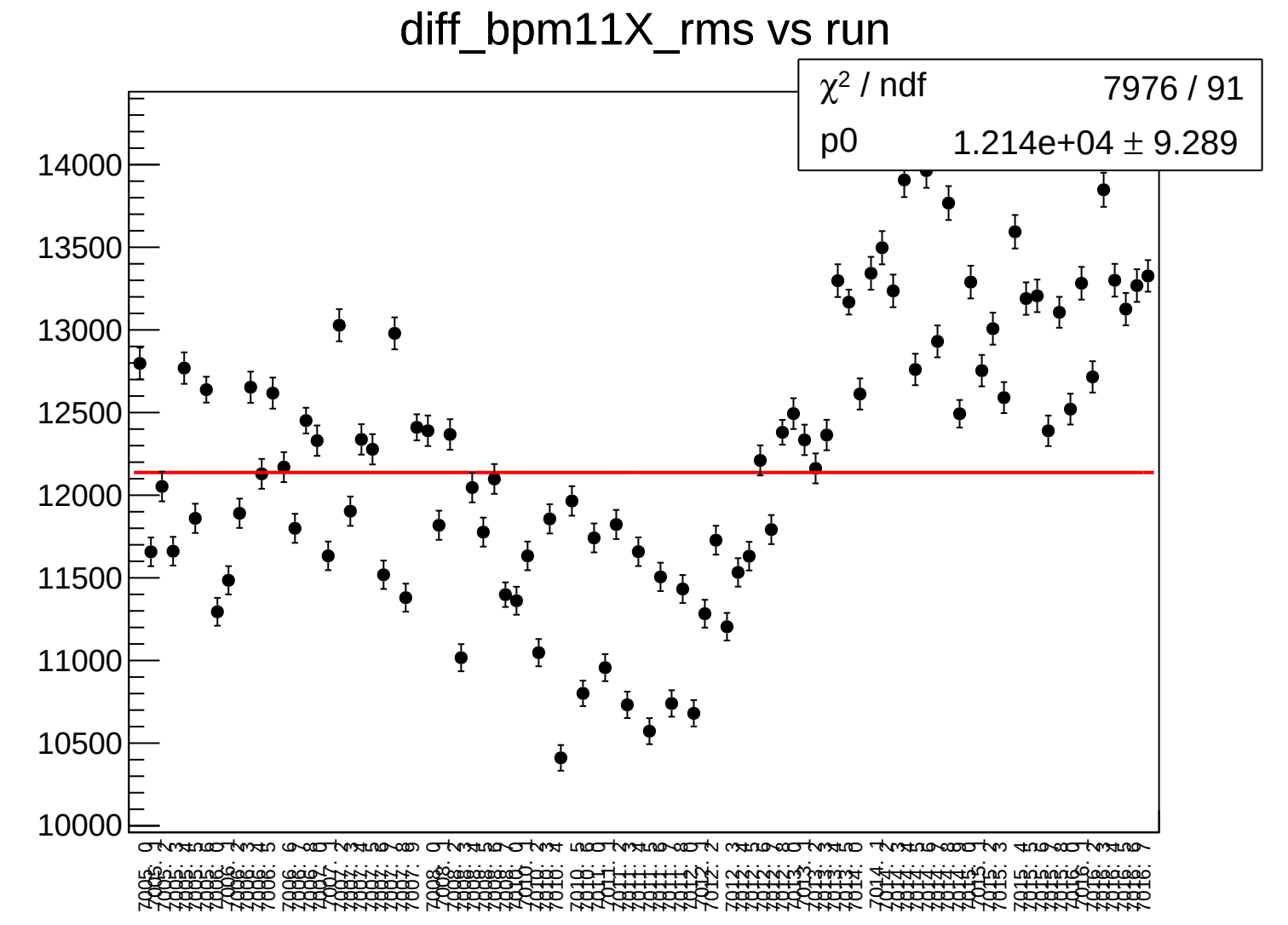

diff_bpm1Y_mean vs run
$\chi^2$ / ndf 120 / 91
p0 −8.04 ± 5.423
pull
Entries 92
Mean −212.6
Std Dev 99.65

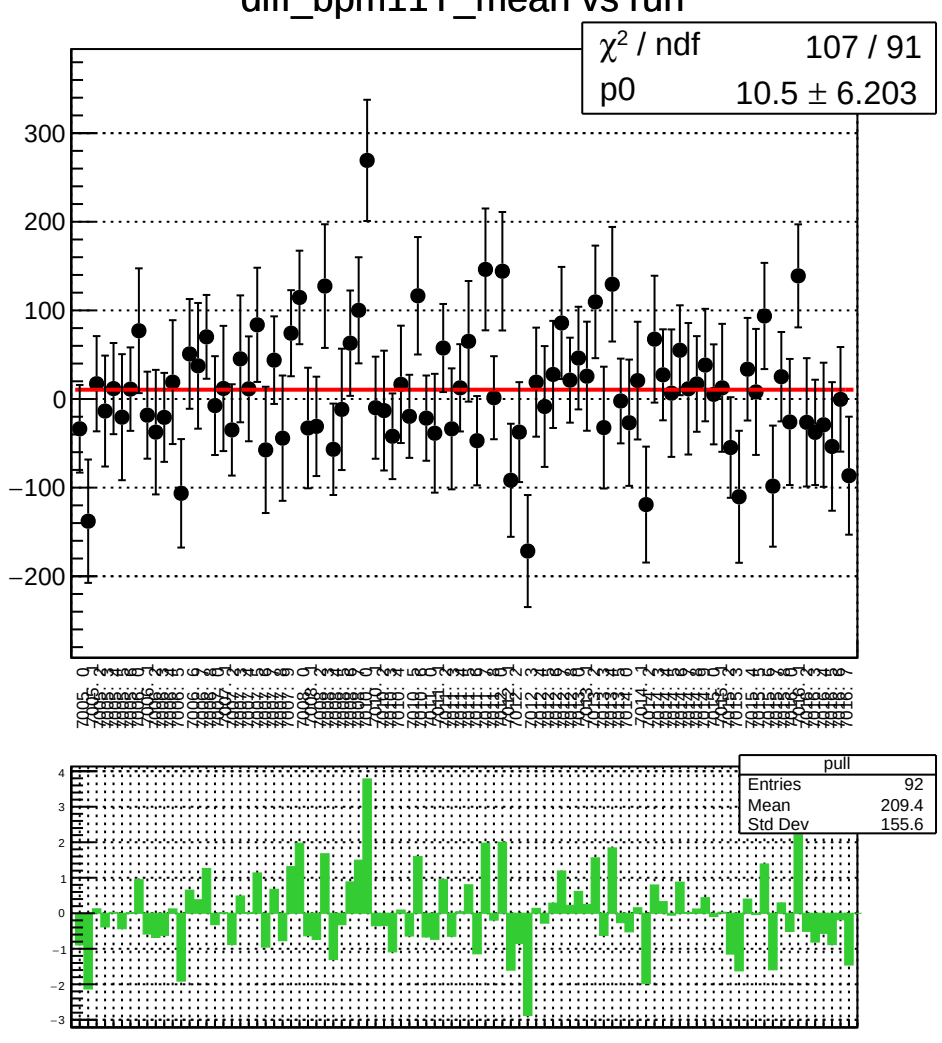

pull1D
Entries 92
Mean 0.00205
Std Dev 1.142

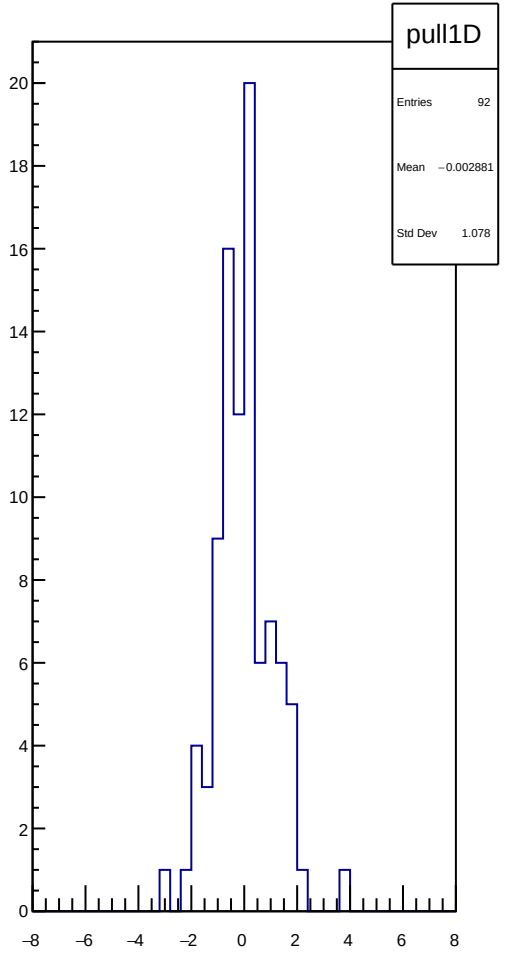

diff_bpm1Y_rms vs run
χ² / ndf 2.787e+04 / 91
p0 4981 ± 3.835
6000
5500
5000
4500
4000

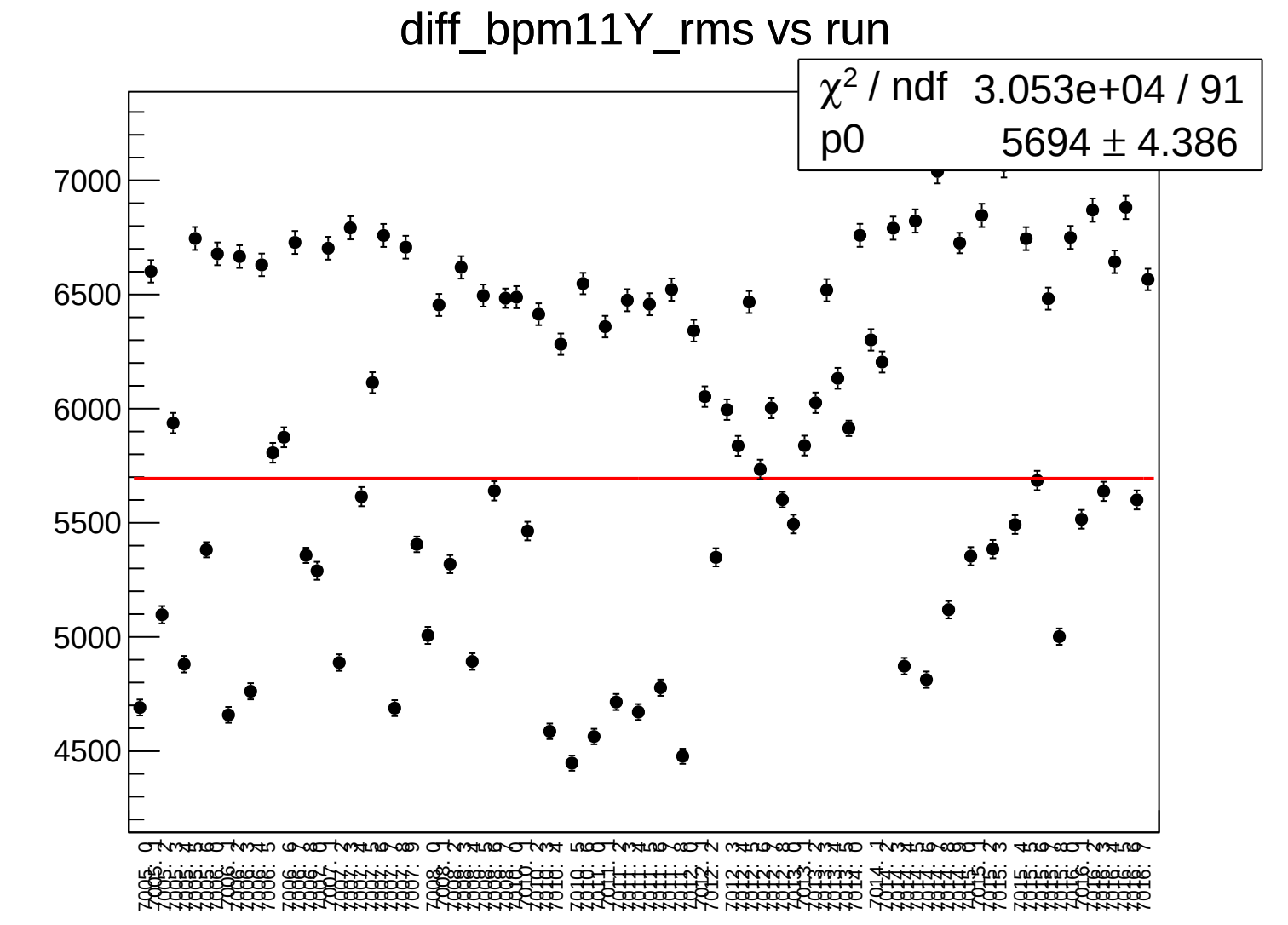

diff_bpm11X_mean vs run
χ² / ndf 84.83 / 91
p0 −37.44 ± 13.14
pull
Entries 92
Mean −1764
Std Dev 0

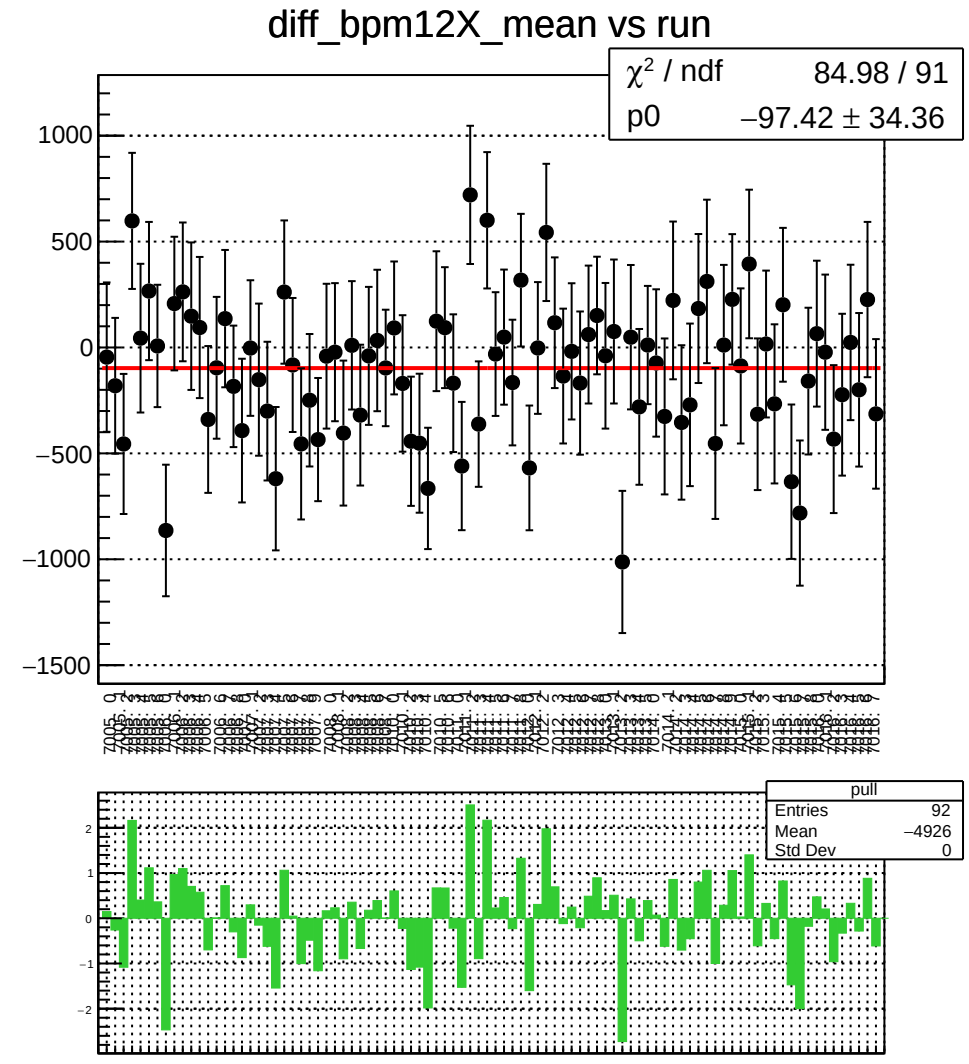

pull1D
Entries 92
Mean 0.0003945
Std Dev 0.9603

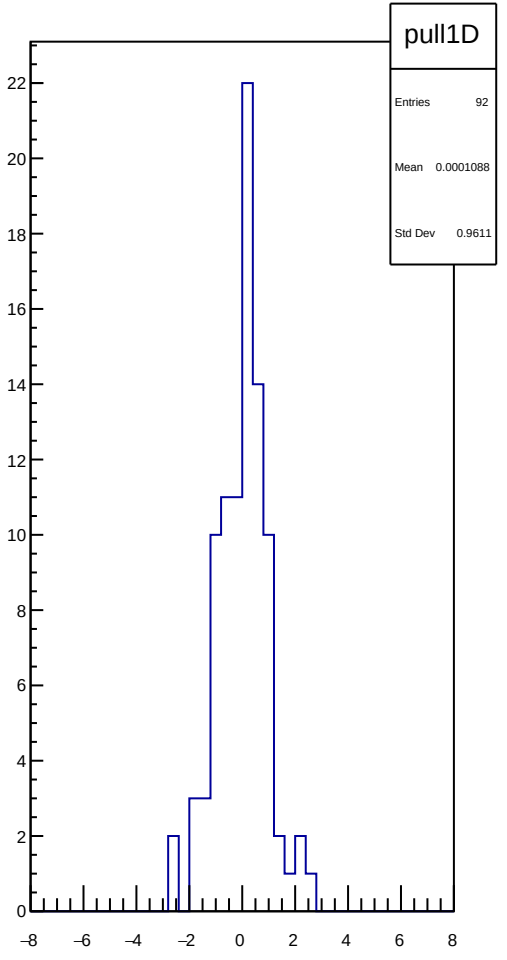

diff_bpm11X_rms vs run
χ² / ndf 7976 / 91
p0 1.214e+04 ± 9.289
14000
13500
13000
12500
12000
11500
11000
10500
10000

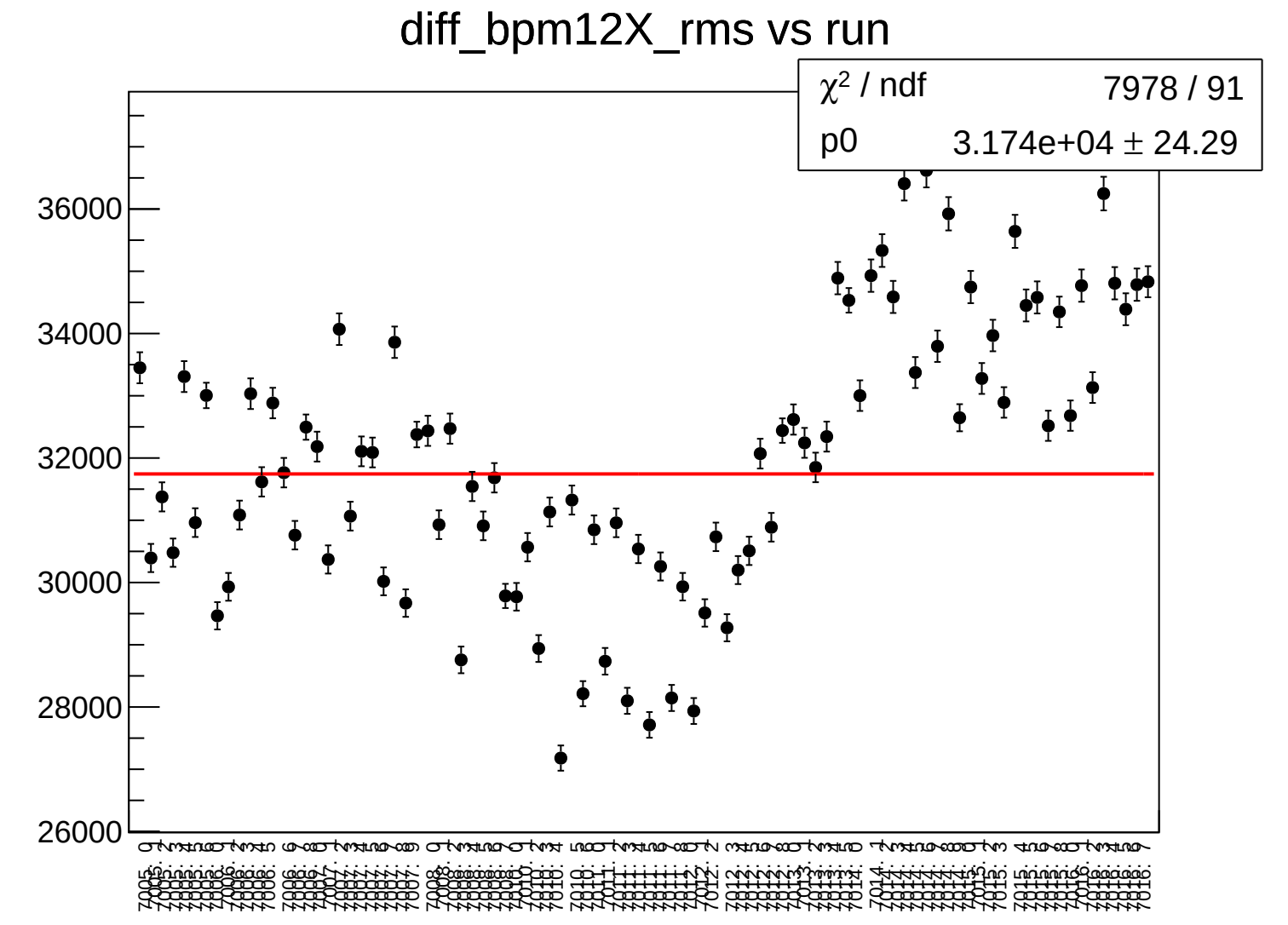

diff_bpm11Y_mean vs run
χ² / ndf 107 / 91
p0 10.5 ± 6.203
300
200
100
0
−100
−200
pull
Entries 92
Mean 209.4
Std Dev 155.6
4
3
2
1
0
−1
−2
−3

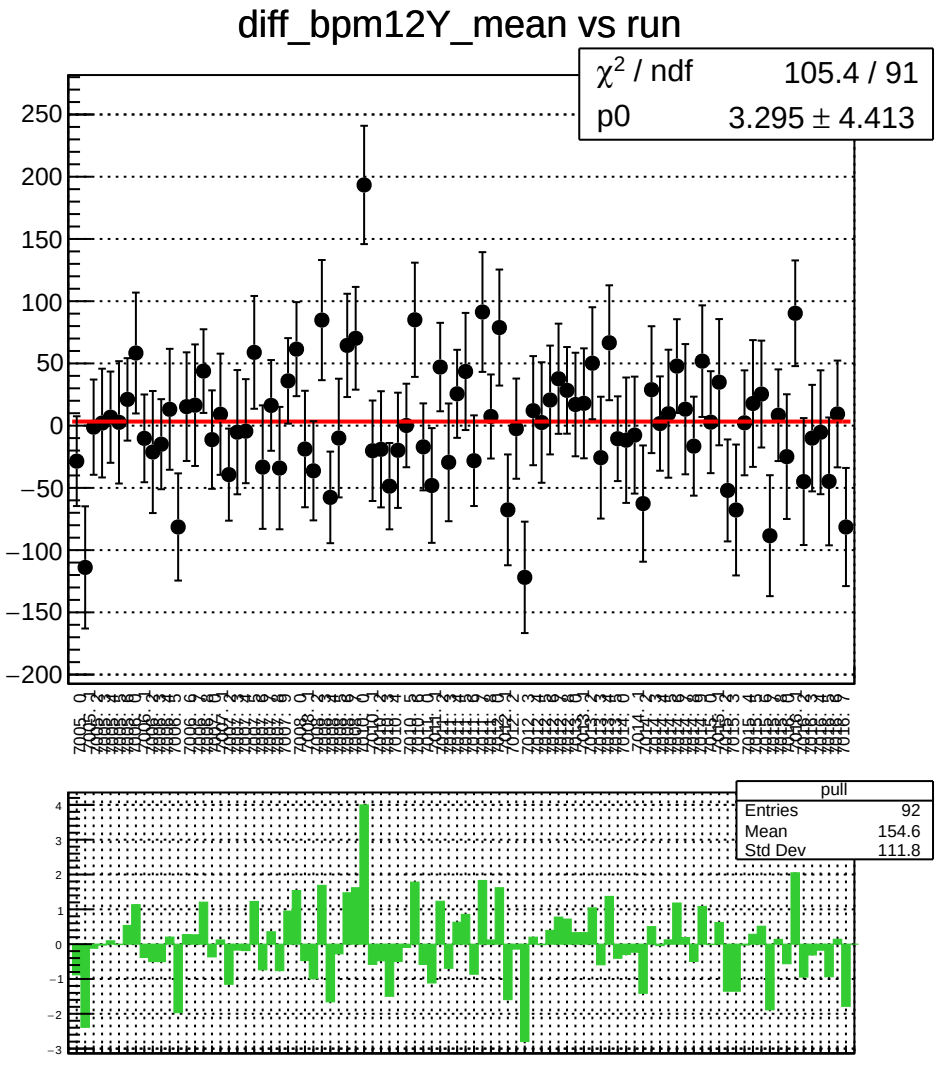

pull1D
Entries 92
Mean −0.002881
Std Dev 1.078
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

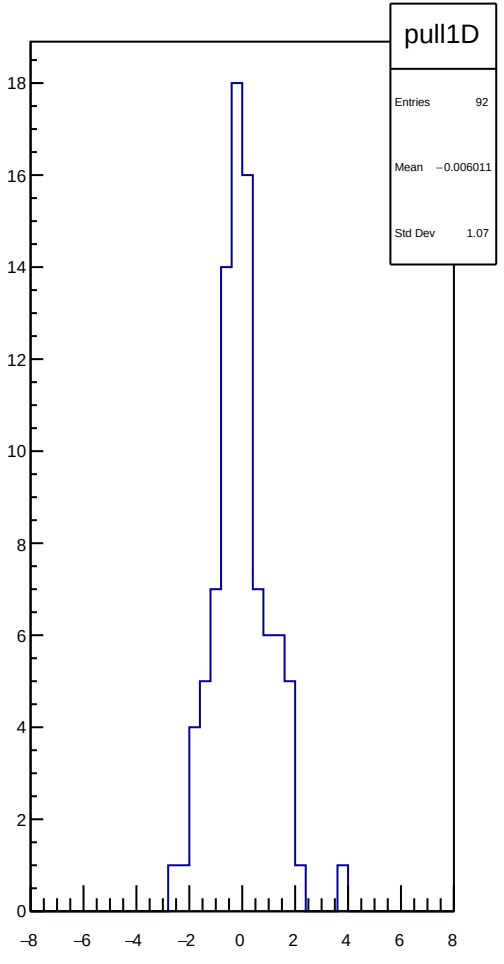

diff_bpm11Y_rms vs run
χ² / ndf 3.053e+04 / 91
p0 5694 ± 4.386
7000
6500
6000
5500
5000
4500

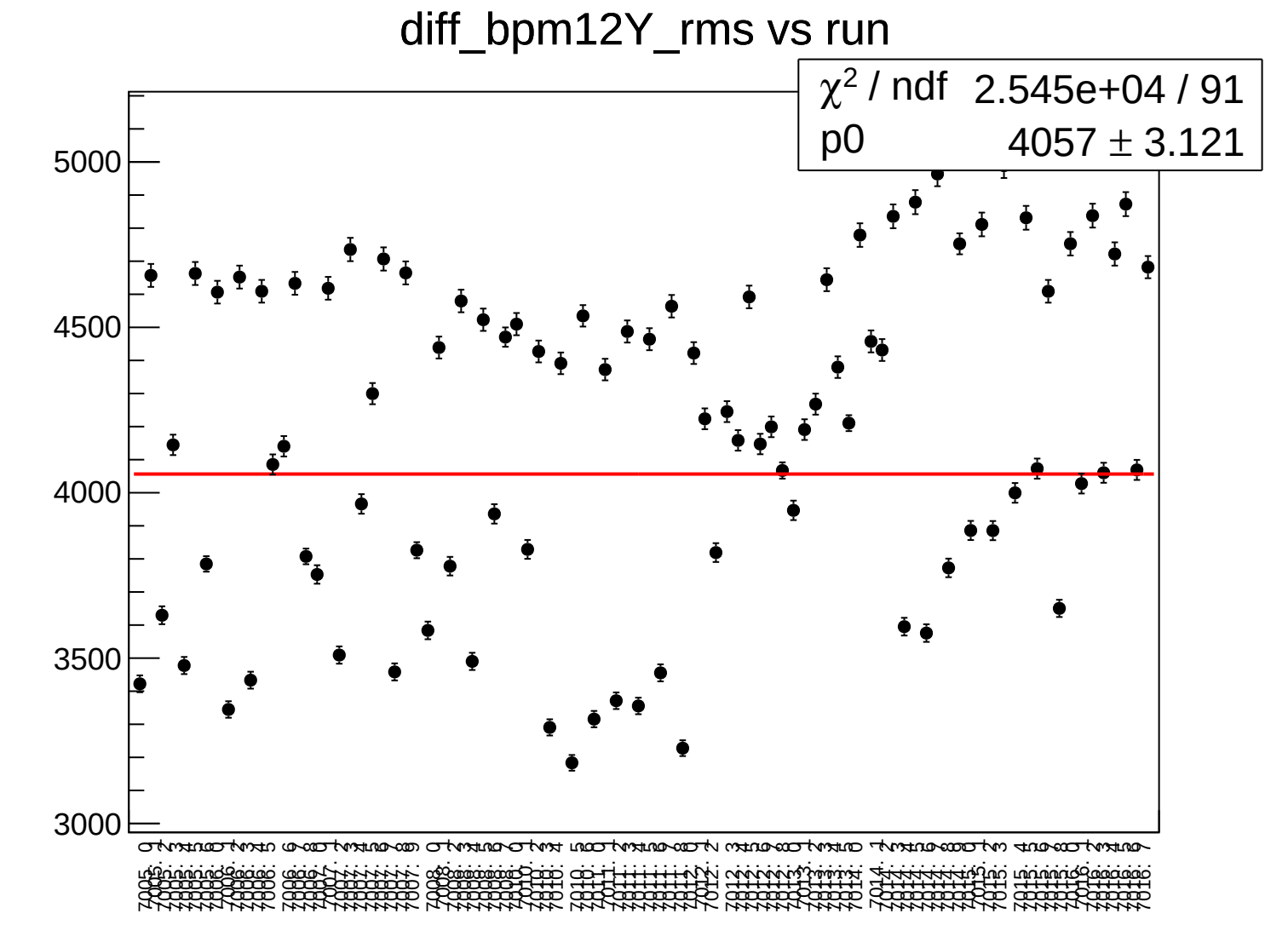

diff_bpm12X_mean vs run
χ² / ndf 84.98 / 91
p0 −97.42 ± 34.36
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −4926
Std Dev 0
2
1
0
−1
−2

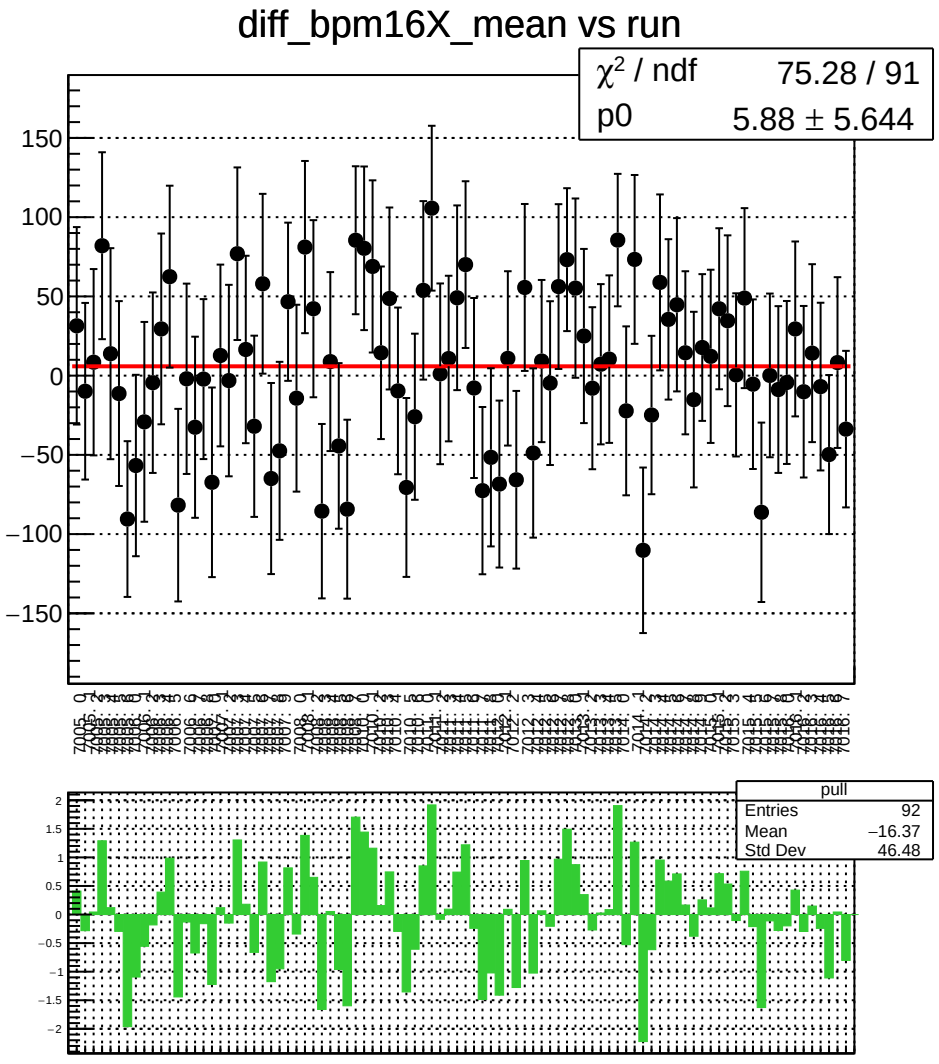

pull1D
Entries 92
Mean 0.0001088
Std Dev 0.9611
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

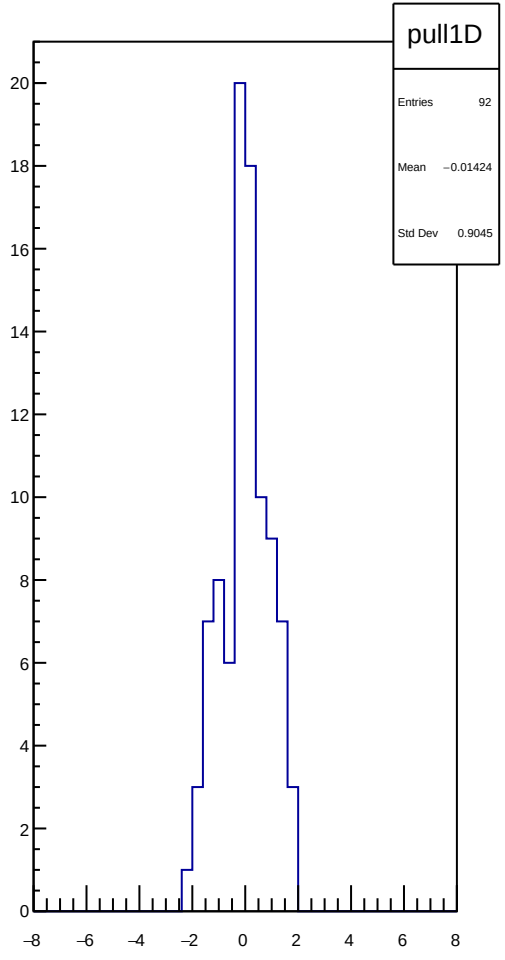

diff_bpm12X_rms vs run
χ² / ndf 7978 / 91
p0 3.174e+04 ± 24.29
36000
34000
32000
30000
28000
26000

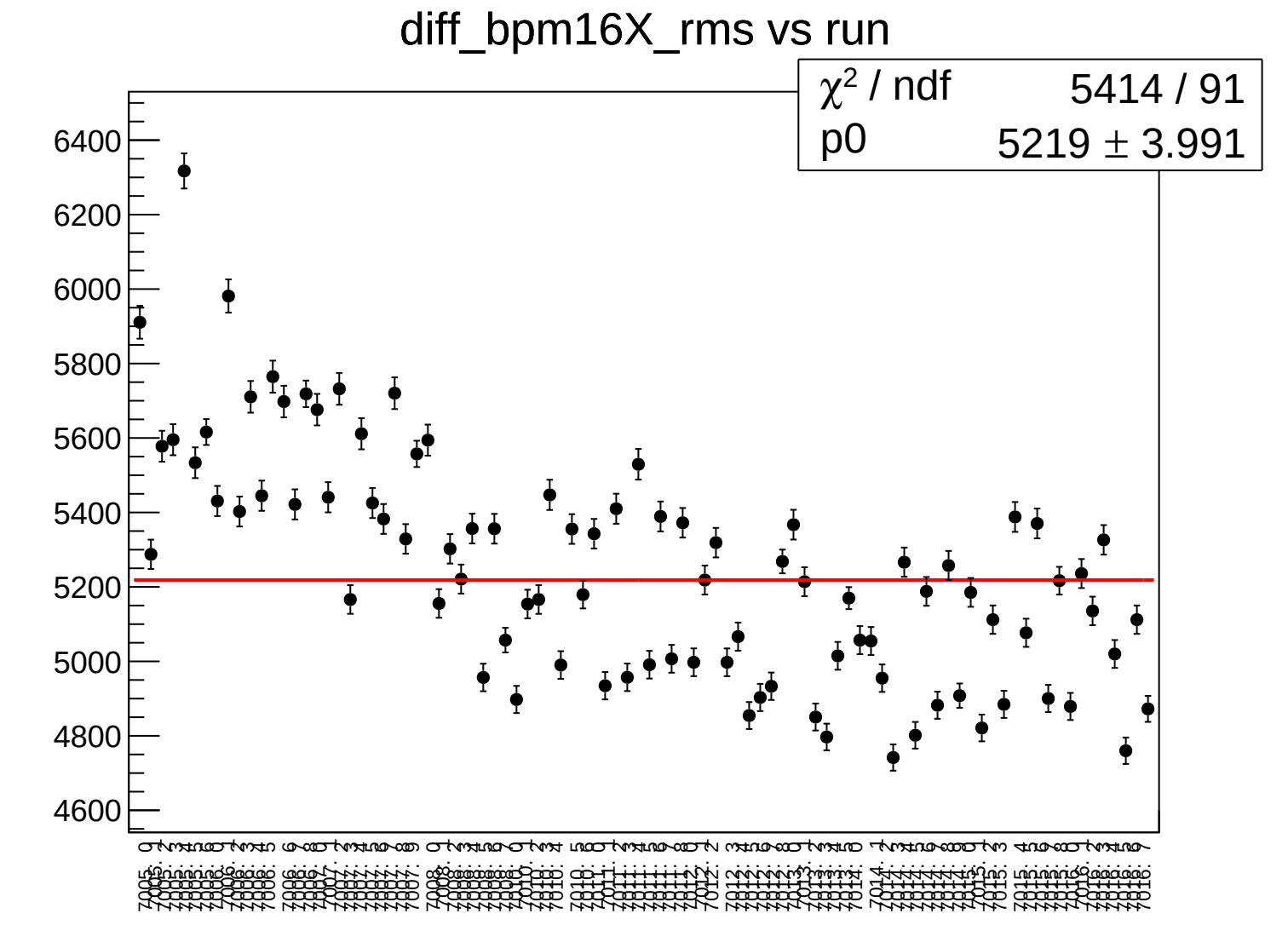

diff_bpm12Y_mean vs run
χ² / ndf 105.4 / 91
p0 3.295 ± 4.413
pull
Entries 92
Mean 154.6
Std Dev 111.8

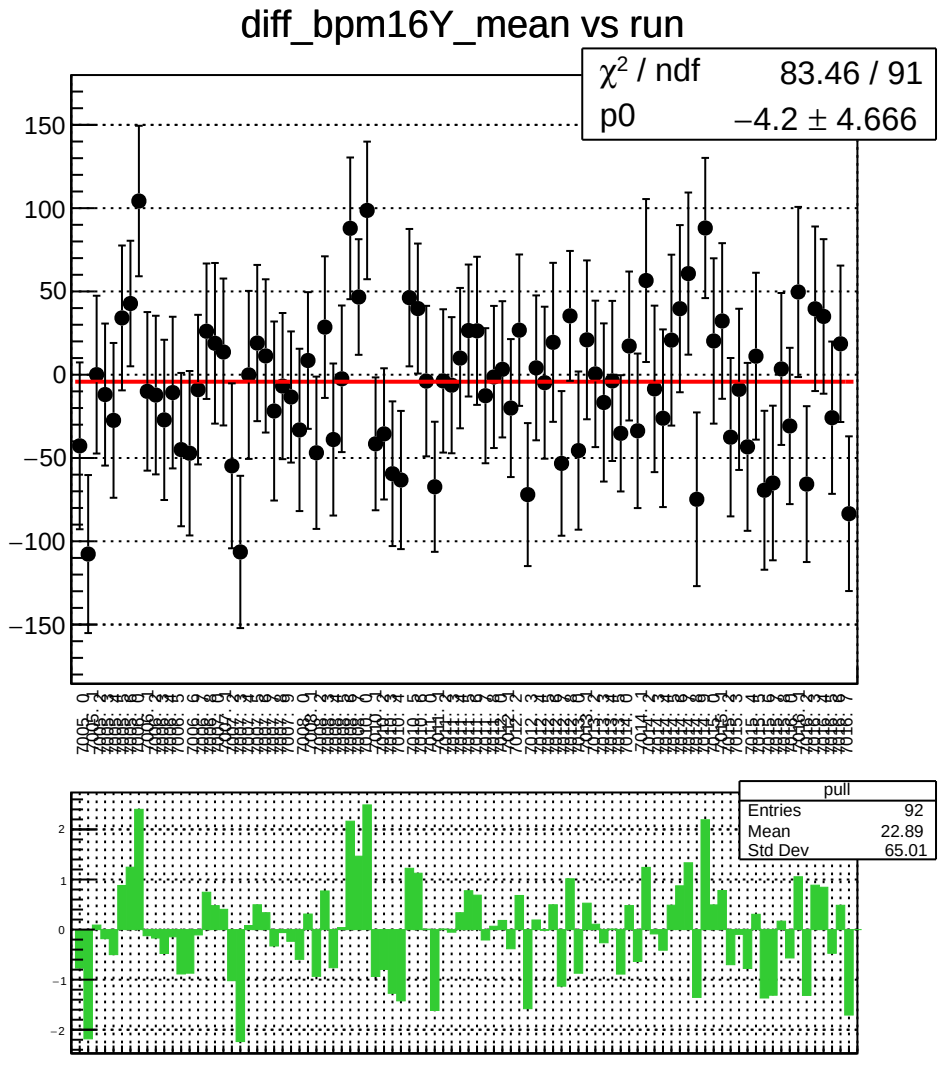

pull1D
Entries 92
Mean −0.006011
Std Dev 1.07

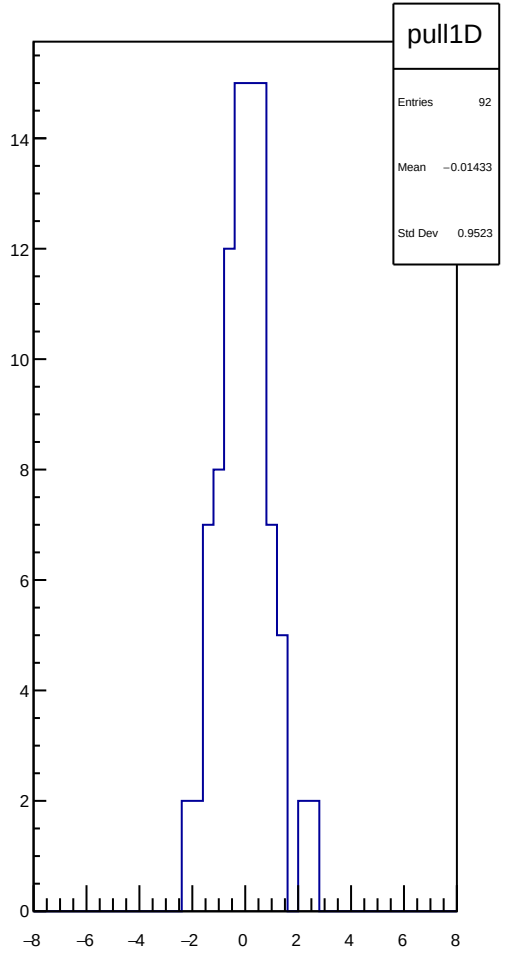

diff_bpm12Y_rms vs run
χ² / ndf 2.545e+04 / 91
p0 4057 ± 3.121
5000
4500
4000
3500
3000

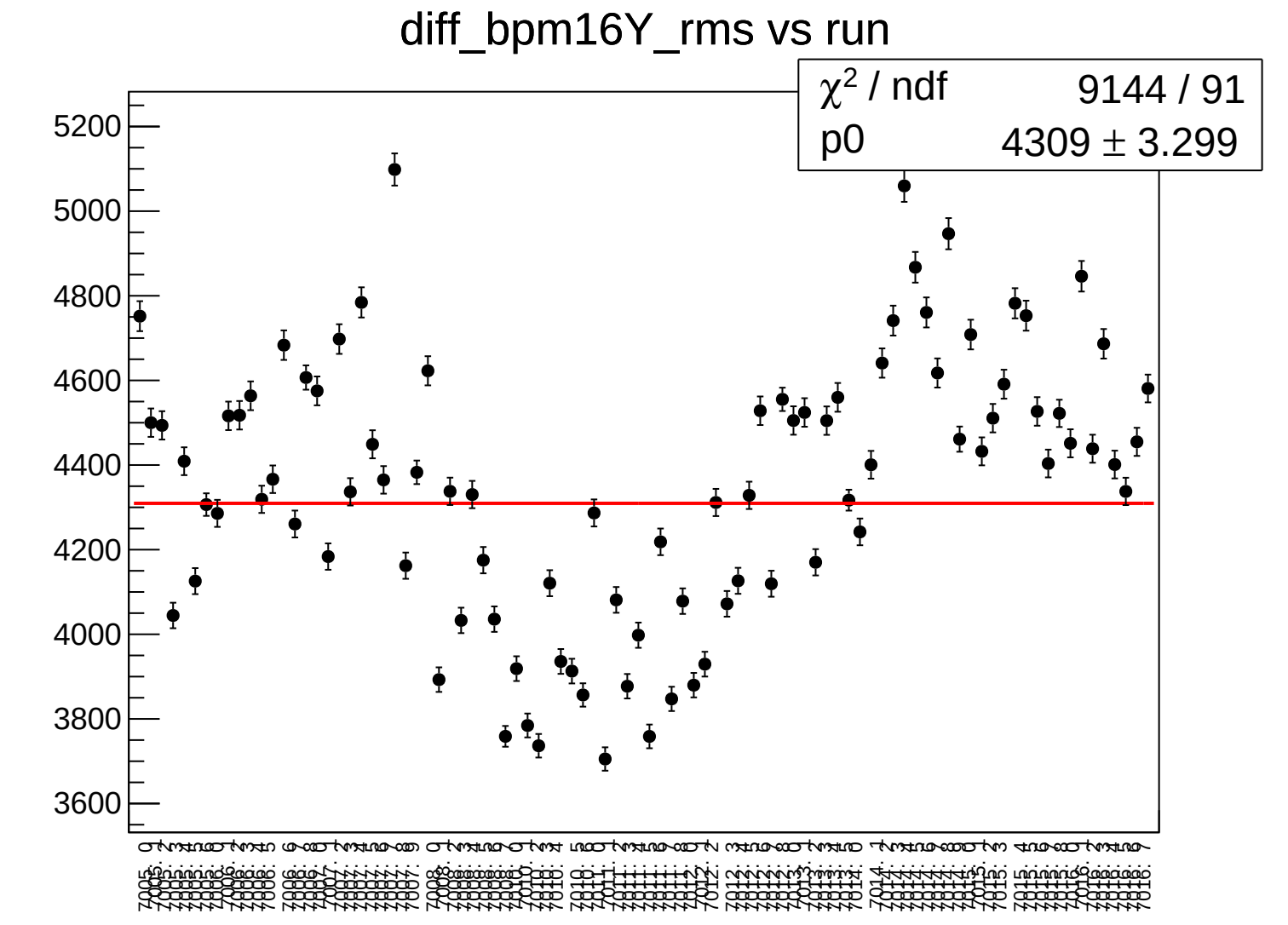

diff_bpm16X_mean vs run
χ² / ndf 75.28 / 91
p0 5.88 ± 5.644
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −16.37
Std Dev 46.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

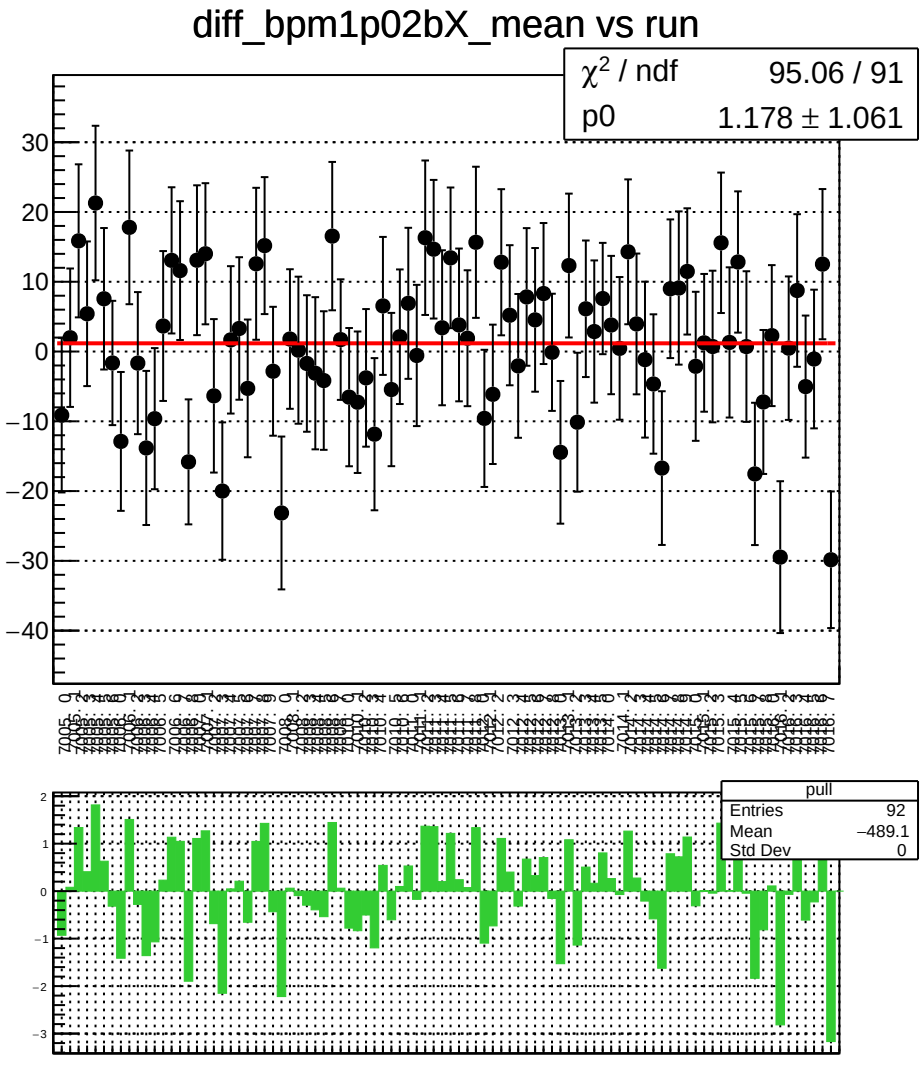

pull1D
Entries 92
Mean −0.01424
Std Dev 0.9045
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

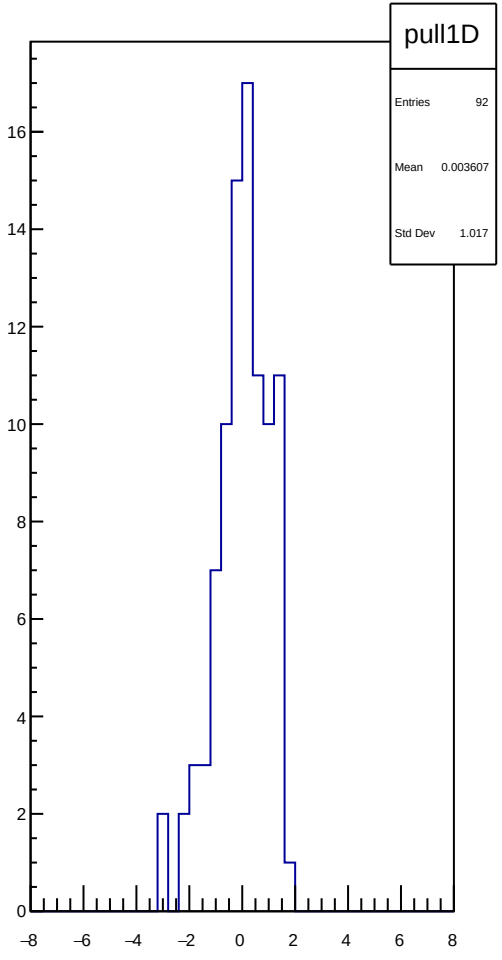

diff_bpm16X_rms vs run
χ² / ndf 5414 / 91
p0 5219 ± 3.991
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

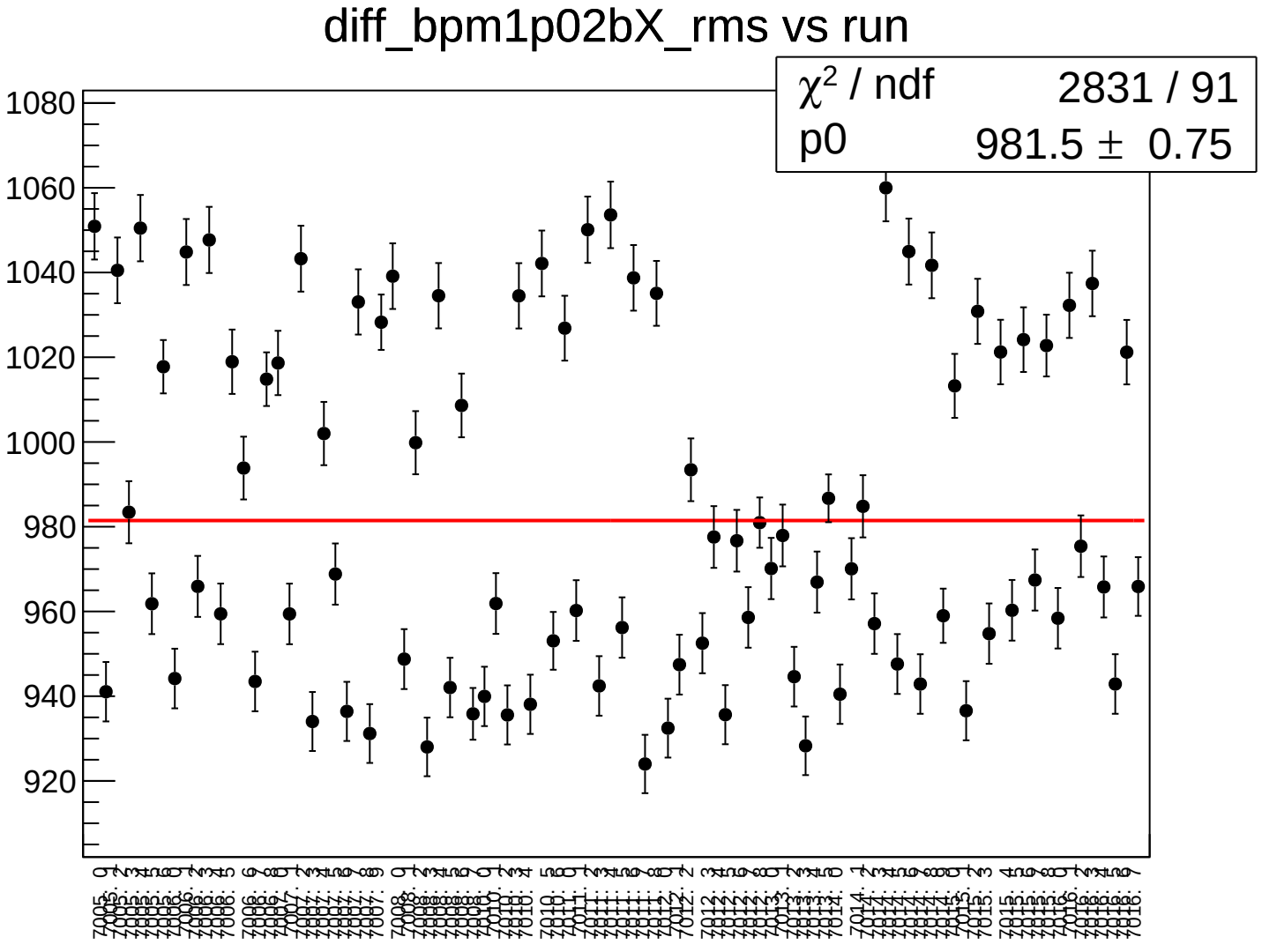

diff_bpm16Y_mean vs run
χ² / ndf 83.46 / 91
p0 −4.2 ± 4.666
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 22.89
Std Dev 65.01
2
1
0
−1
−2

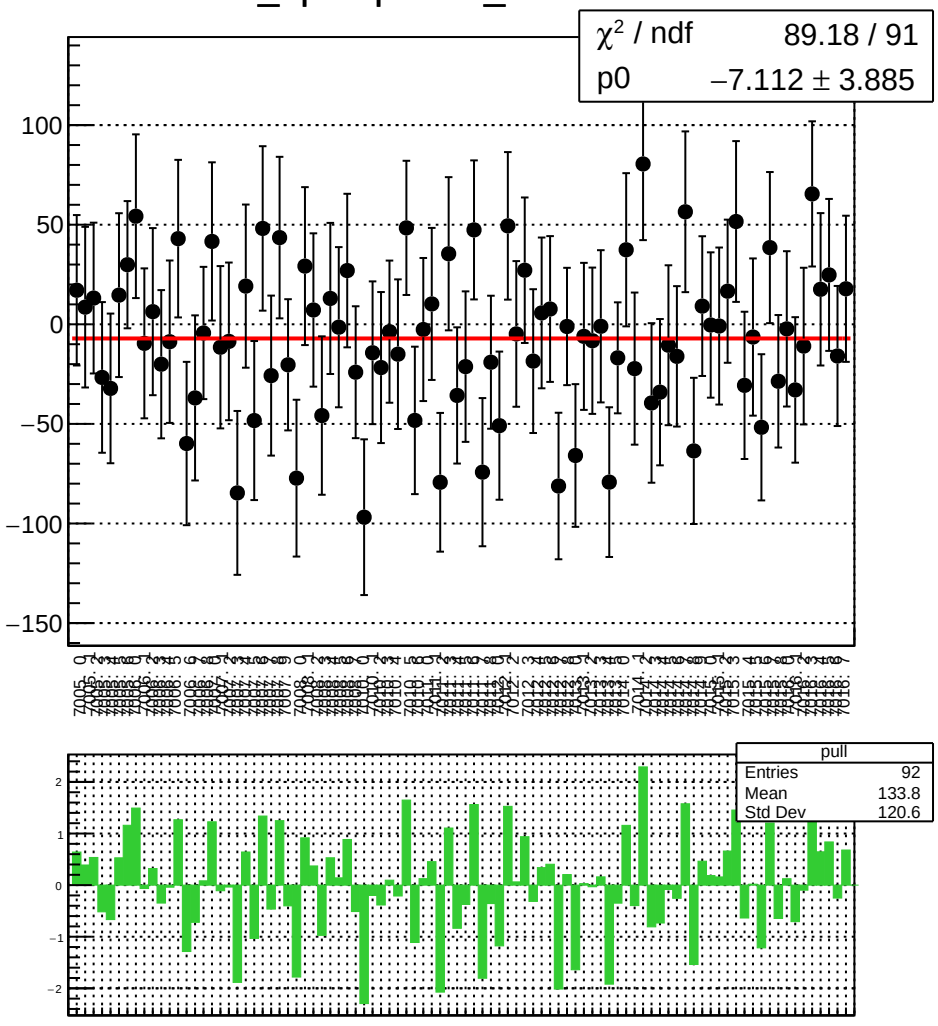

pull1D
Entries 92
Mean −0.01433
Std Dev 0.9523
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

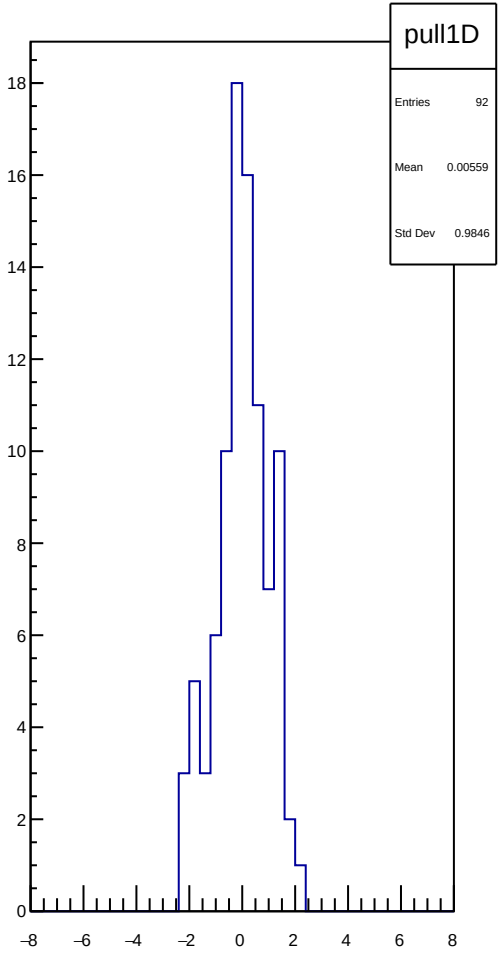

diff_bpm16Y_rms vs run
$\chi^2$ / ndf 9144 / 91
p0 4309 ± 3.299
5200
5000
4800
4600
4400
4200
4000
3800
3600

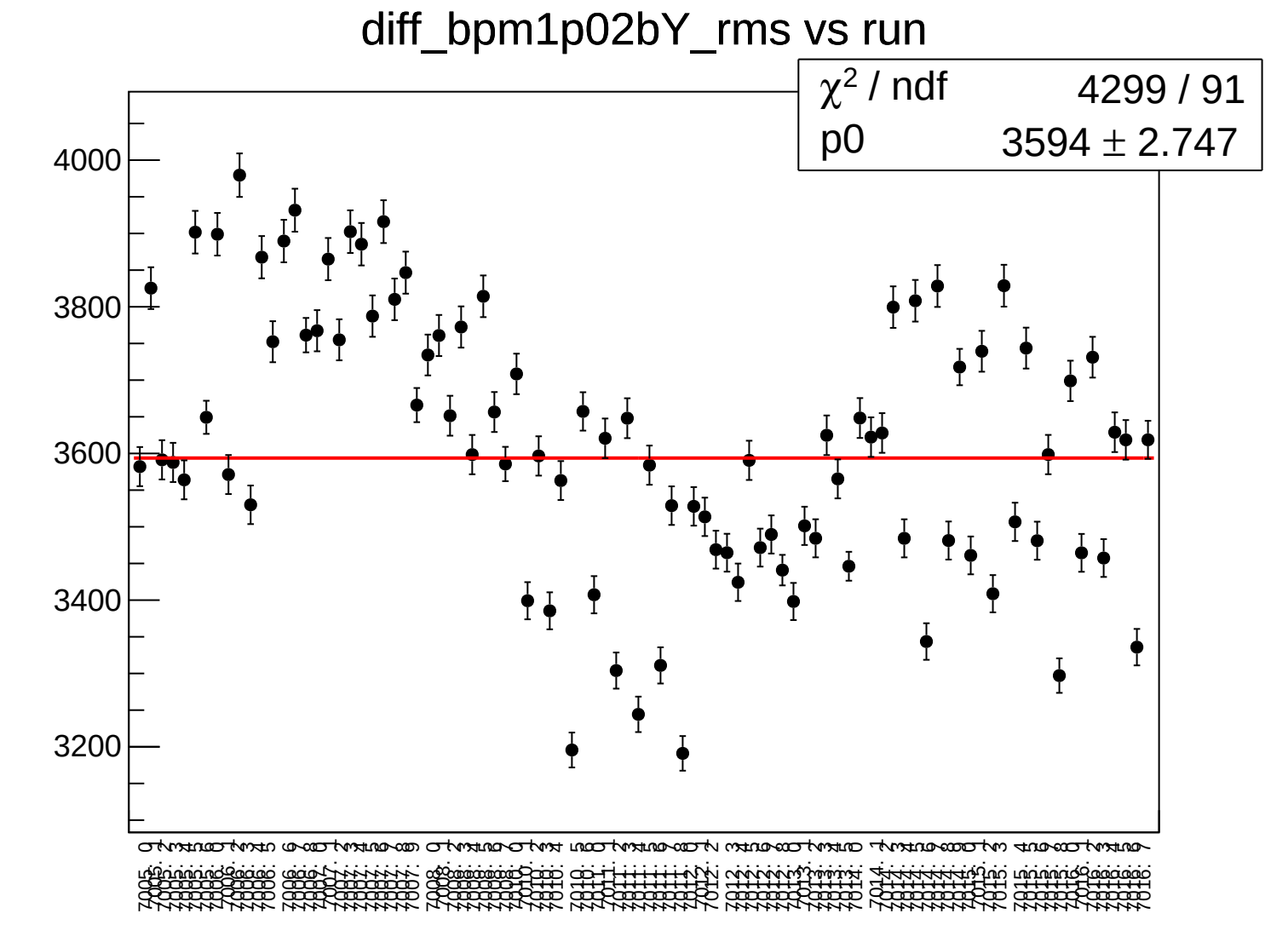

diff_bpm1p02bX_mean vs run
χ² / ndf 95.06 / 91
p0 1.178 ± 1.061
pull
Entries 92
Mean −489.1
Std Dev 0

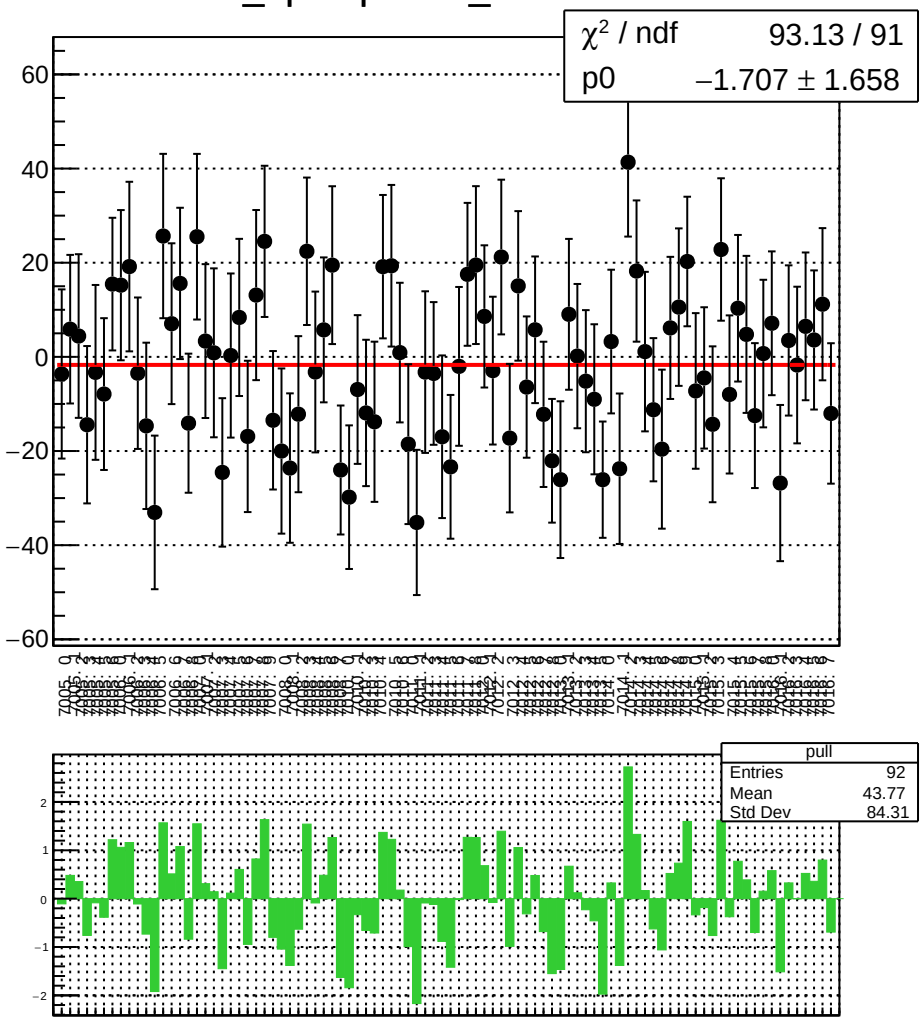

pull1D
Entries 92
Mean 0.003607
Std Dev 1.017

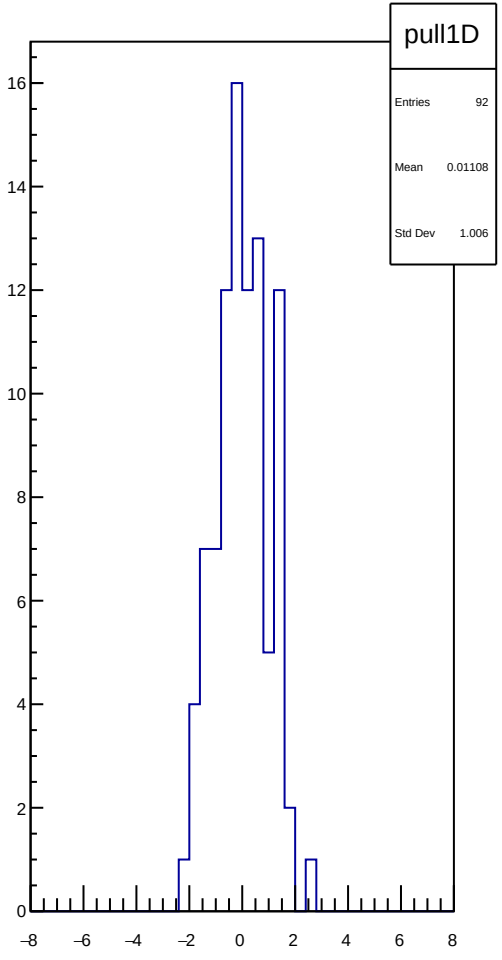

diff_bpm1p02bX_rms vs run
χ² / ndf 2831 / 91
p0 981.5 ± 0.75
1080
1060
1040
1020
1000
980
960
940
920

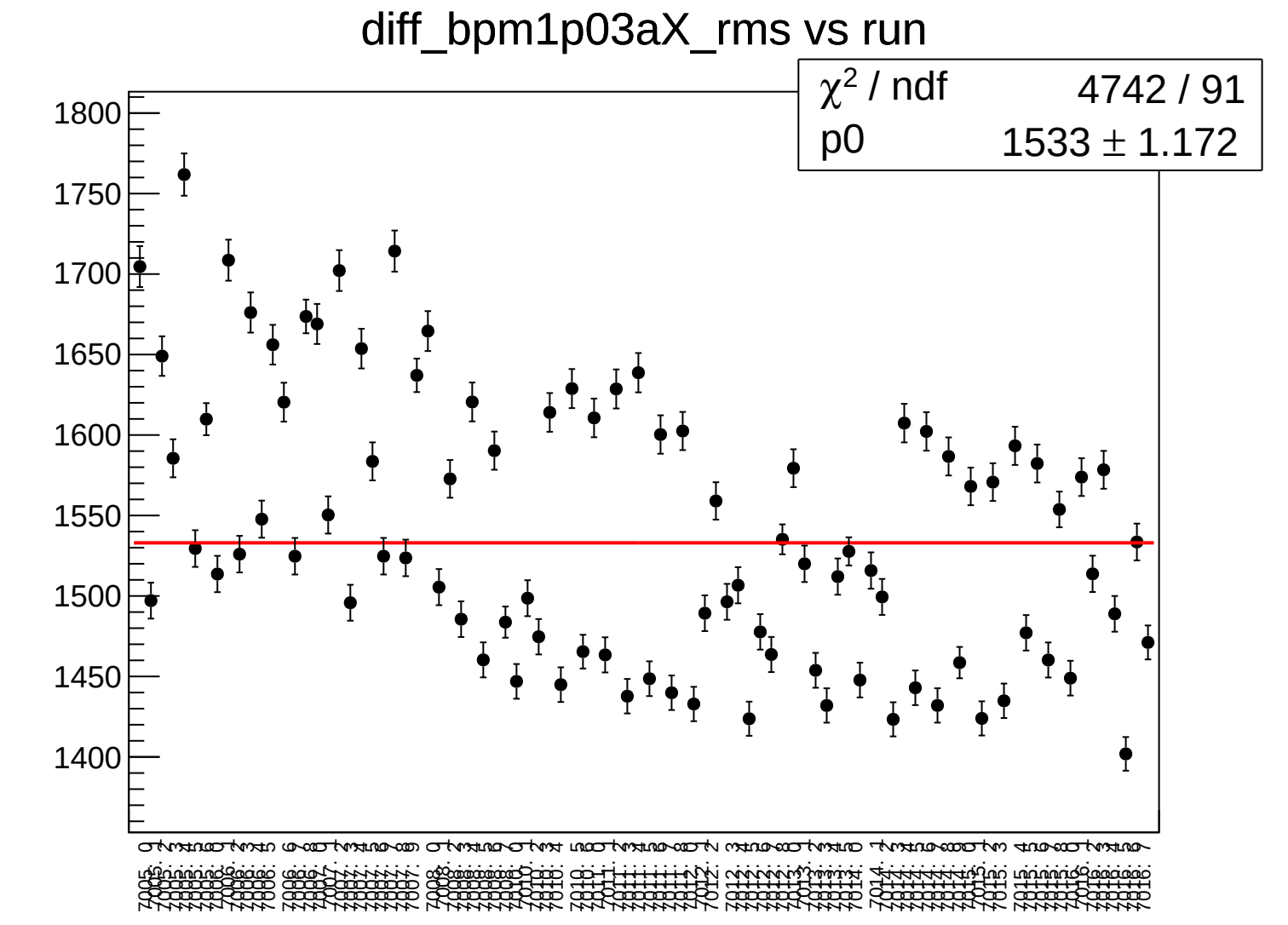

diff_bpm1p02bY_mean vs run
χ² / ndf 89.18 / 91
p0 −7.112 ± 3.885
pull
Entries 92
Mean 133.8
Std Dev 120.6

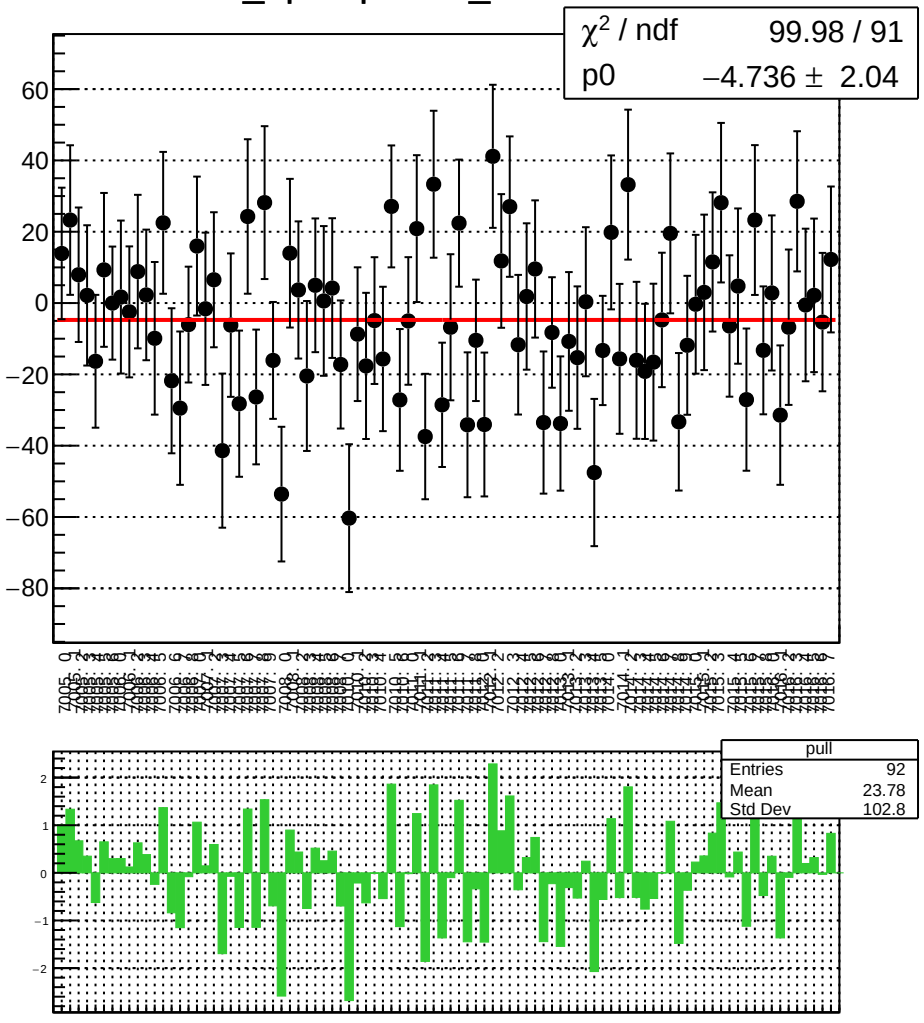

pull1D
Entries 92
Mean 0.00559
Std Dev 0.9846

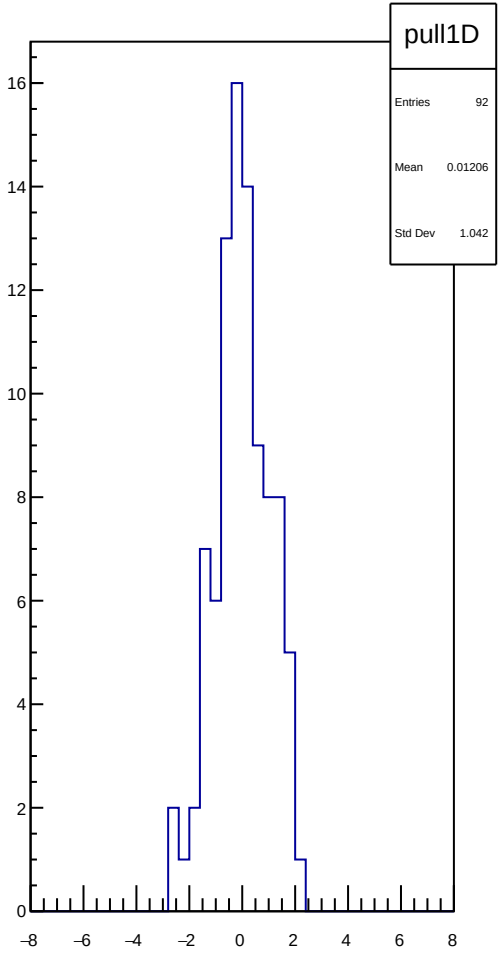

diff_bpm1p02bY_rms vs run
χ² / ndf 4299 / 91
p0 3594 ± 2.747
4000
3800
3600
3400
3200

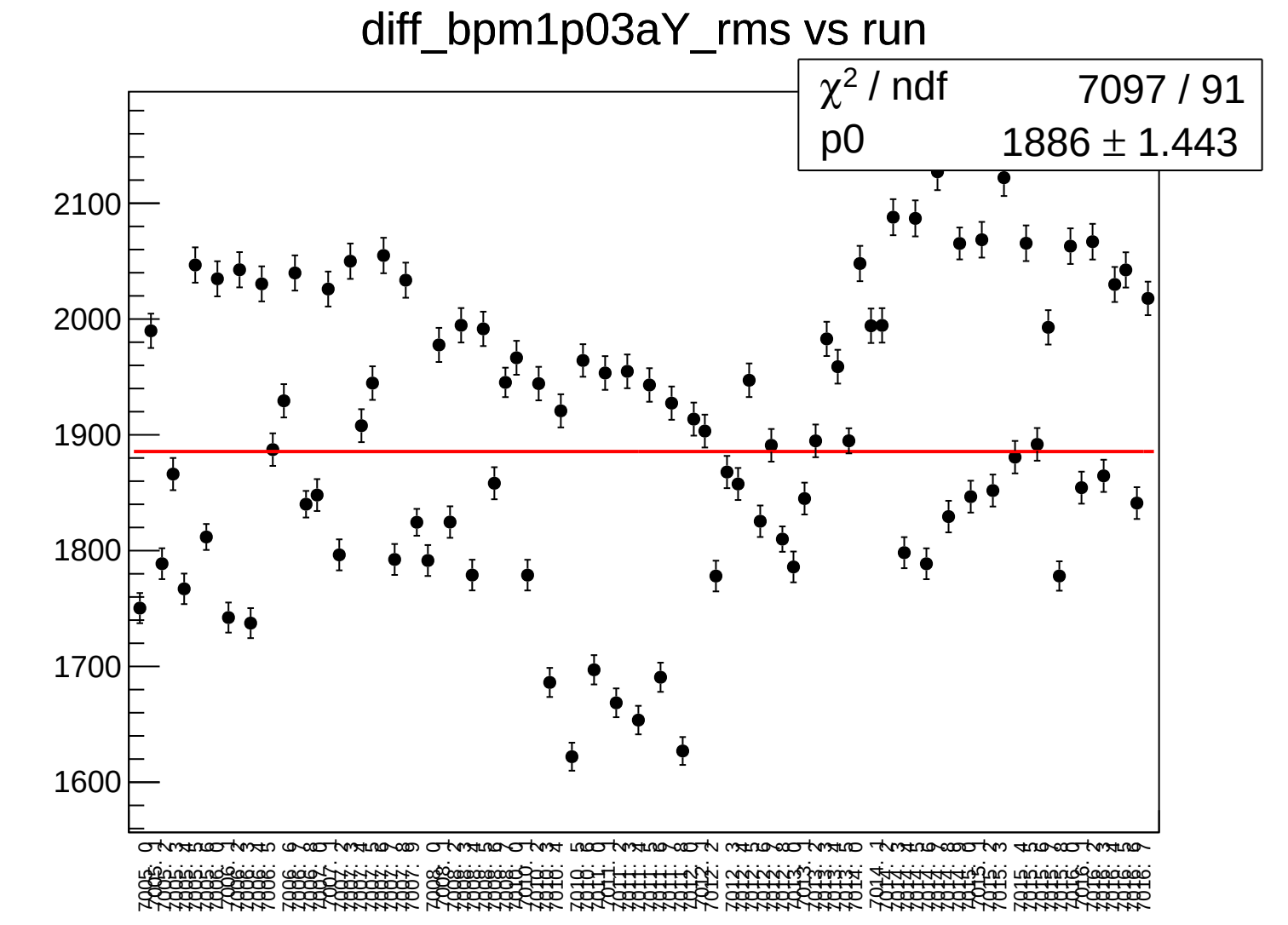

diff_bpm1p03aX_mean vs run
χ² / ndf 93.13 / 91
p0 −1.707 ± 1.658
pull
Entries 92
Mean 43.77
Std Dev 84.31

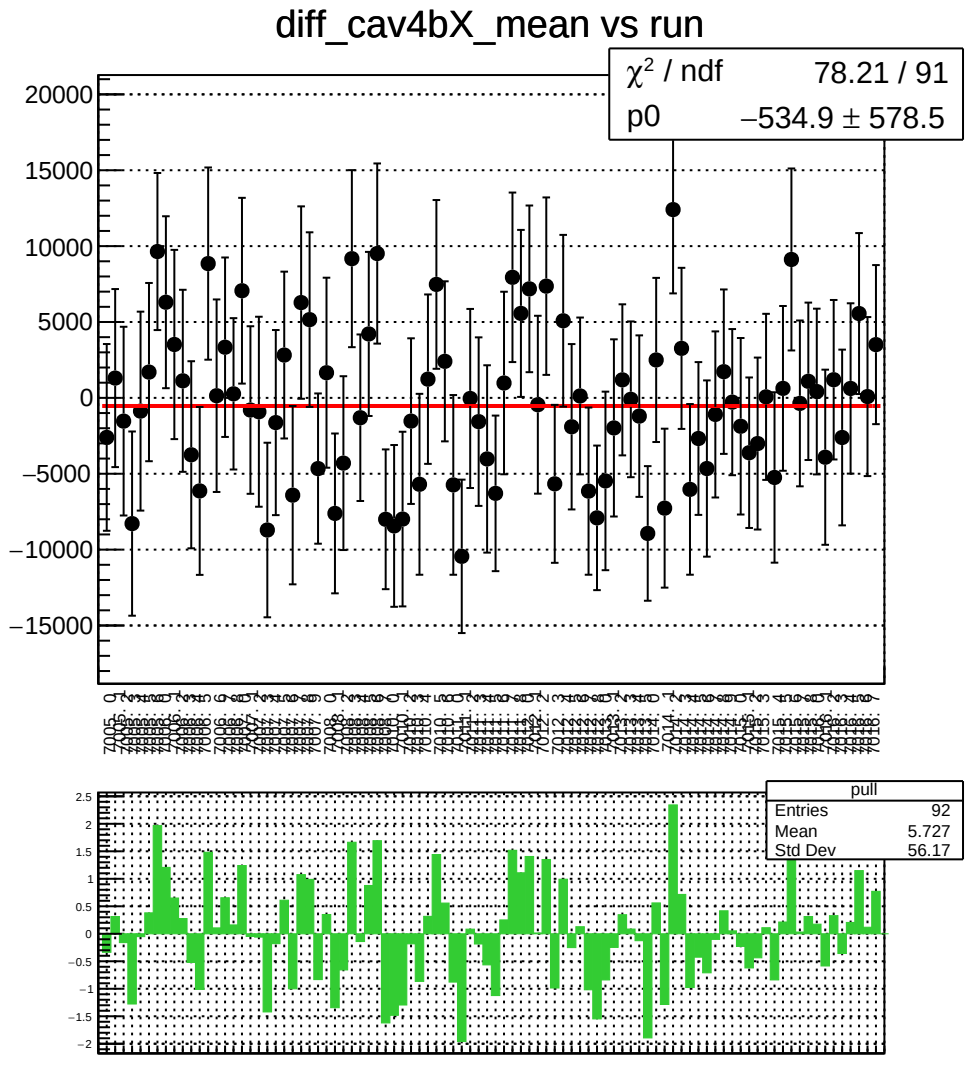

pull1D
Entries 92
Mean 0.01108
Std Dev 1.006

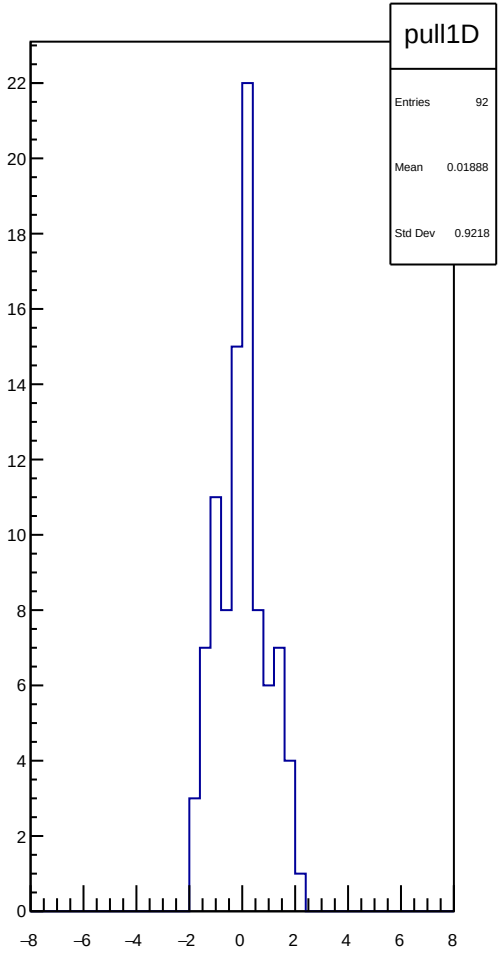

diff_bpm1p03aX_rms vs run
χ² / ndf 4742 / 91
p0 1533 ± 1.172
1800
1750
1700
1650
1600
1550
1500
1450
1400

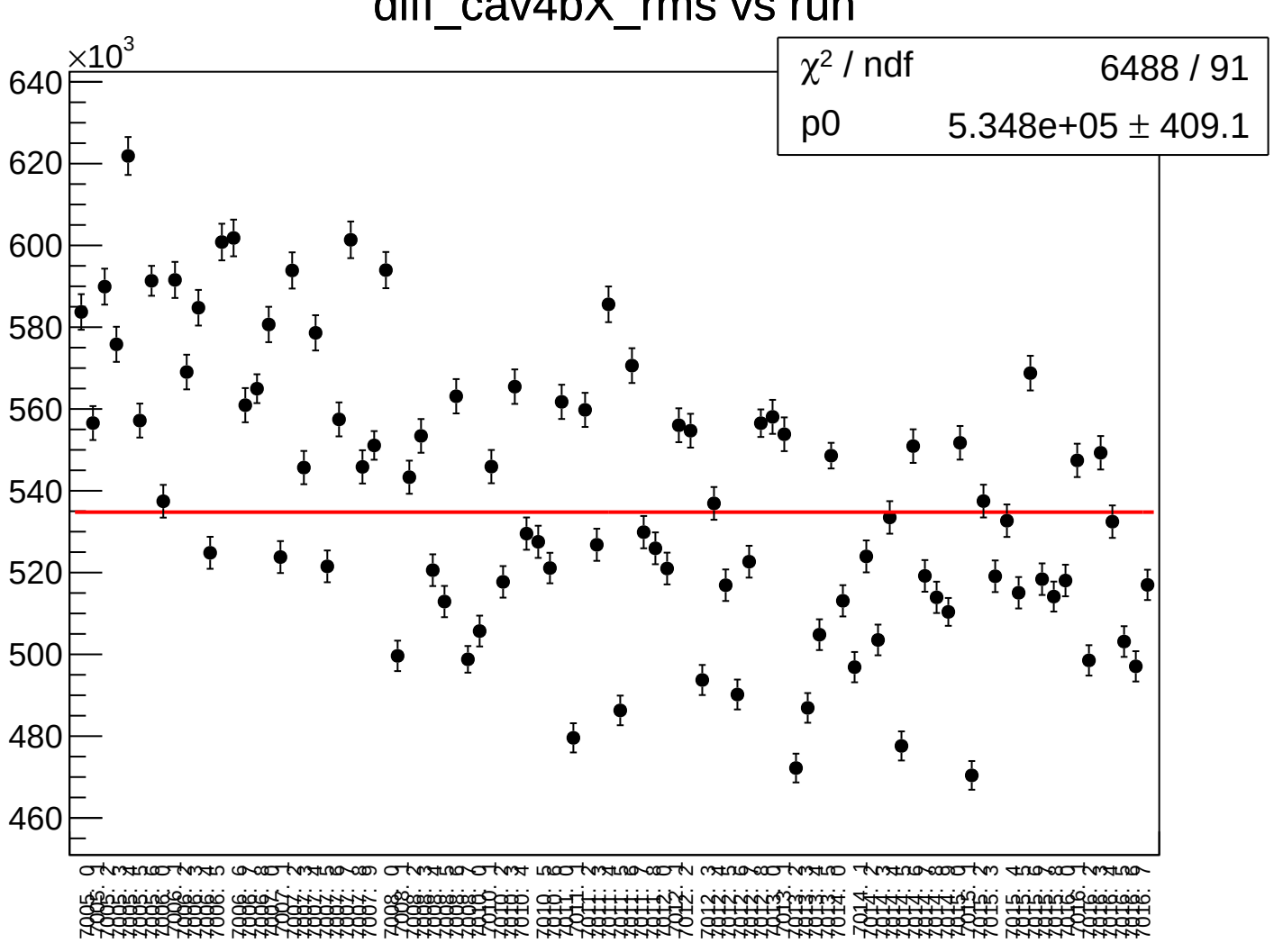

diff_bpm1p03aY_mean vs run
χ² / ndf 99.98 / 91
p0 −4.736 ± 2.04
pull
Entries 92
Mean 23.78
Std Dev 102.8

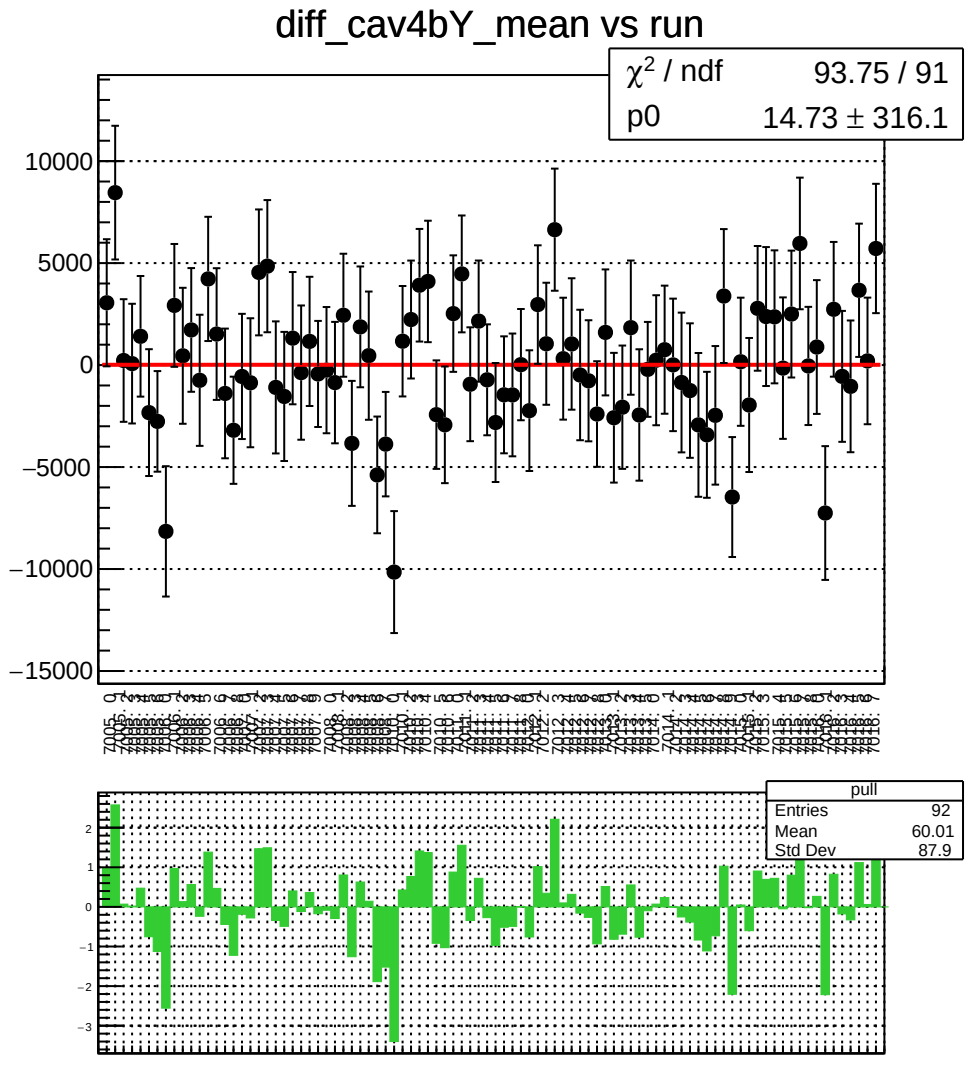

pull1D
Entries 92
Mean 0.01206
Std Dev 1.042

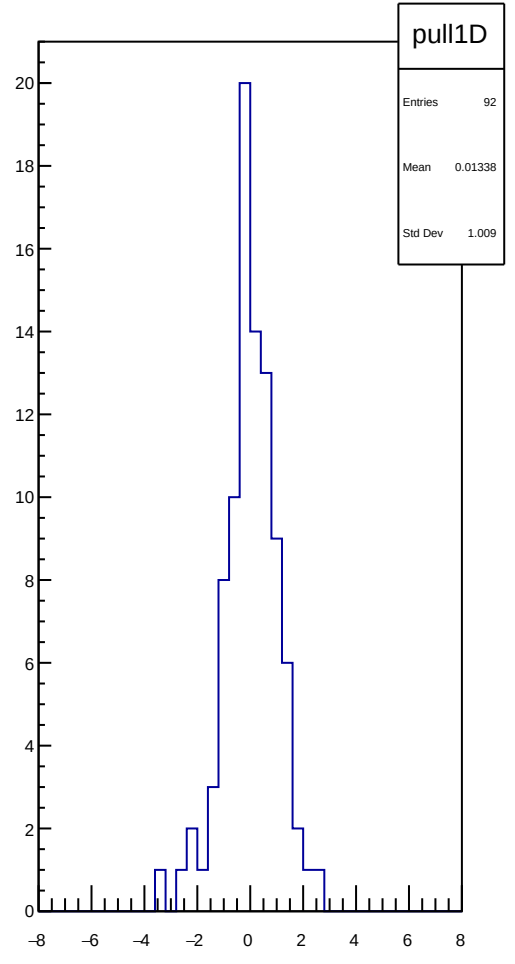

diff_bpm1p03aY_rms vs run
χ² / ndf 7097 / 91
p0 1886 ± 1.443
2100
2000
1900
1800
1700
1600

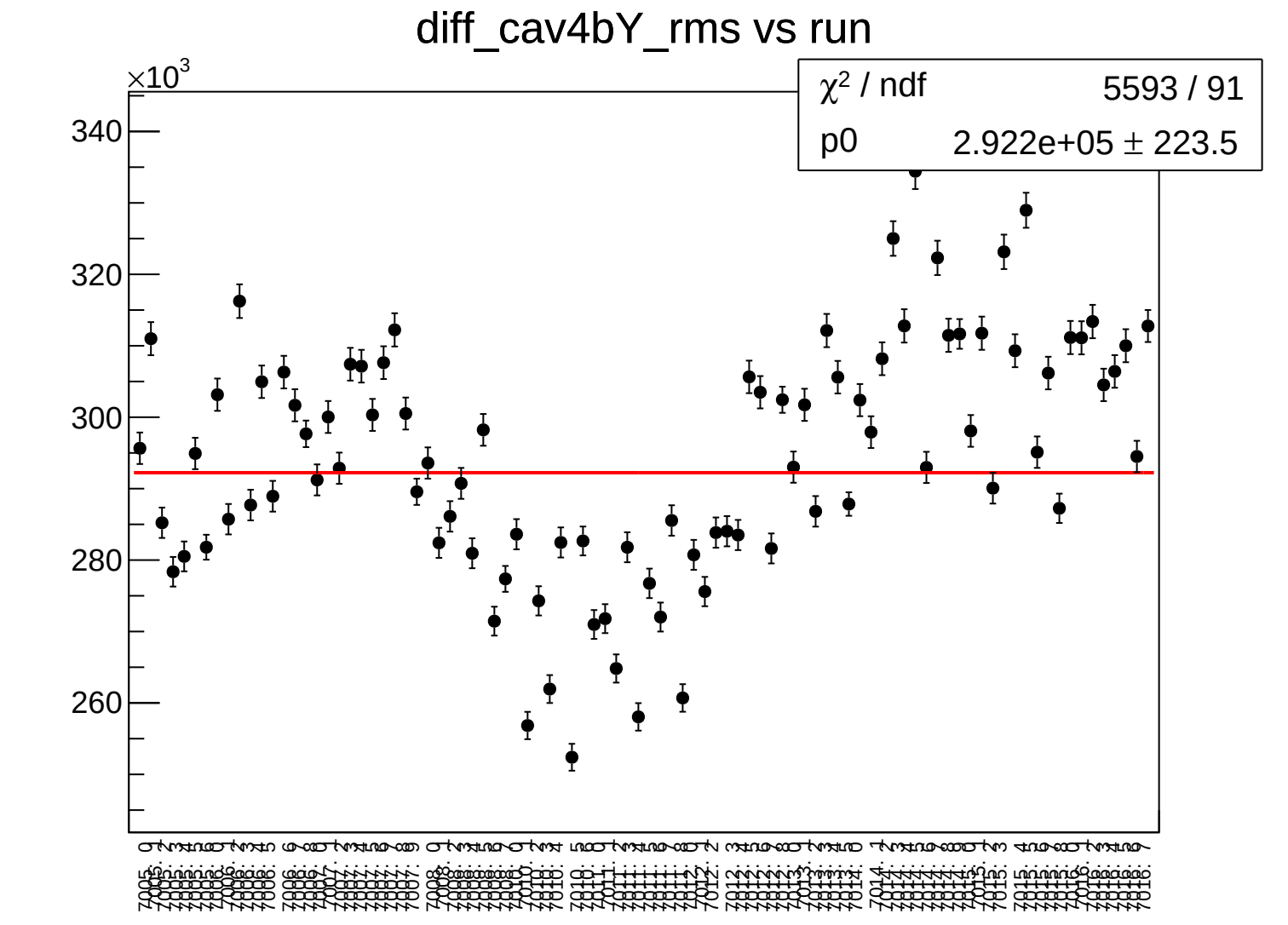

diff_cav4bX_mean vs run
χ² / ndf 78.21 / 91
p0 −534.9 ± 578.5
pull
Entries 92
Mean 5.727
Std Dev 56.17

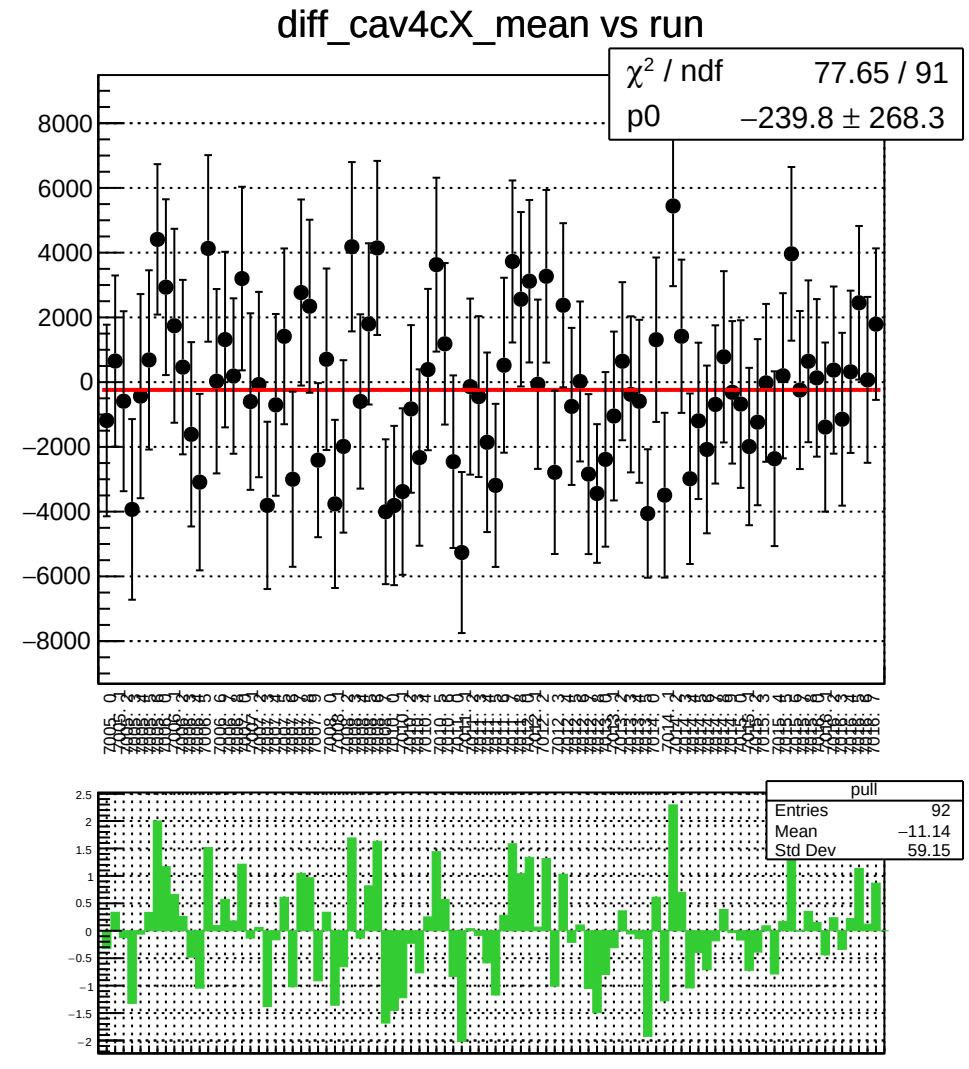

pull1D
Entries 92
Mean 0.01888
Std Dev 0.9218

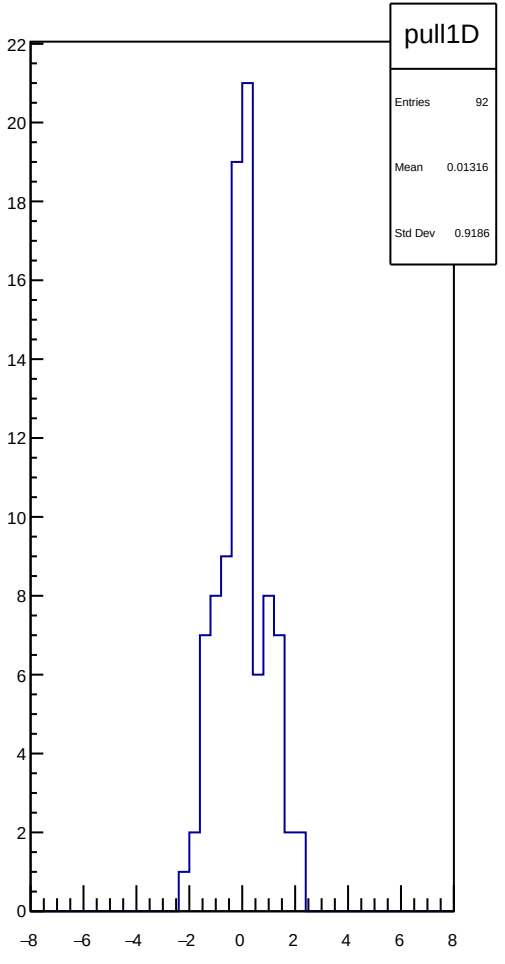

diff_cav4bX_rms vs run
×10^3
640
620
600
580
560
540
520
500
480
460
χ² / ndf 6488 / 91
p0 5.348e+05 ± 409.1

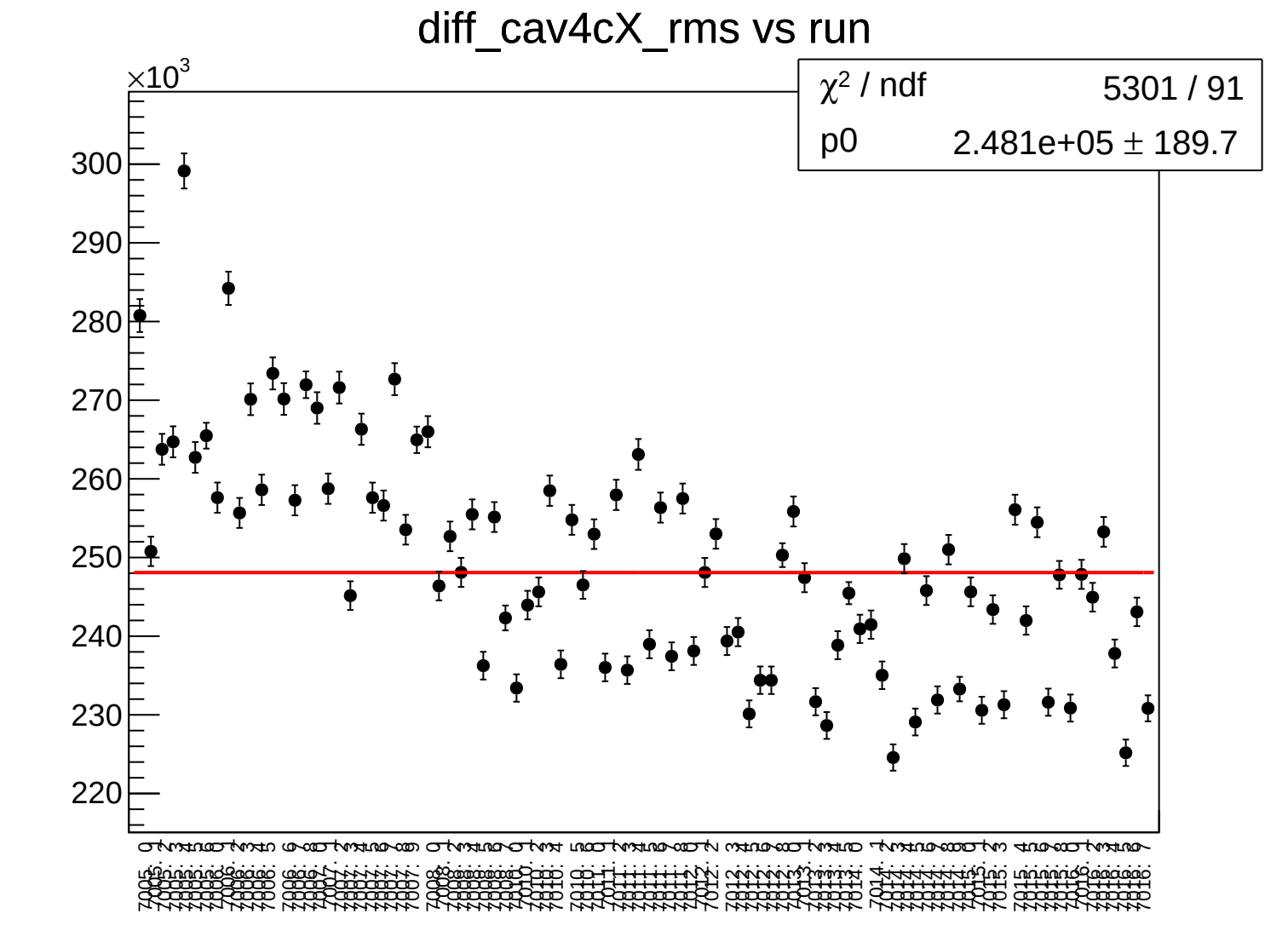

diff_cav4bY_mean vs run
χ² / ndf 93.75 / 91
p0 14.73 ± 316.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 60.01
Std Dev 87.9
2
1
0
−1
−2
−3

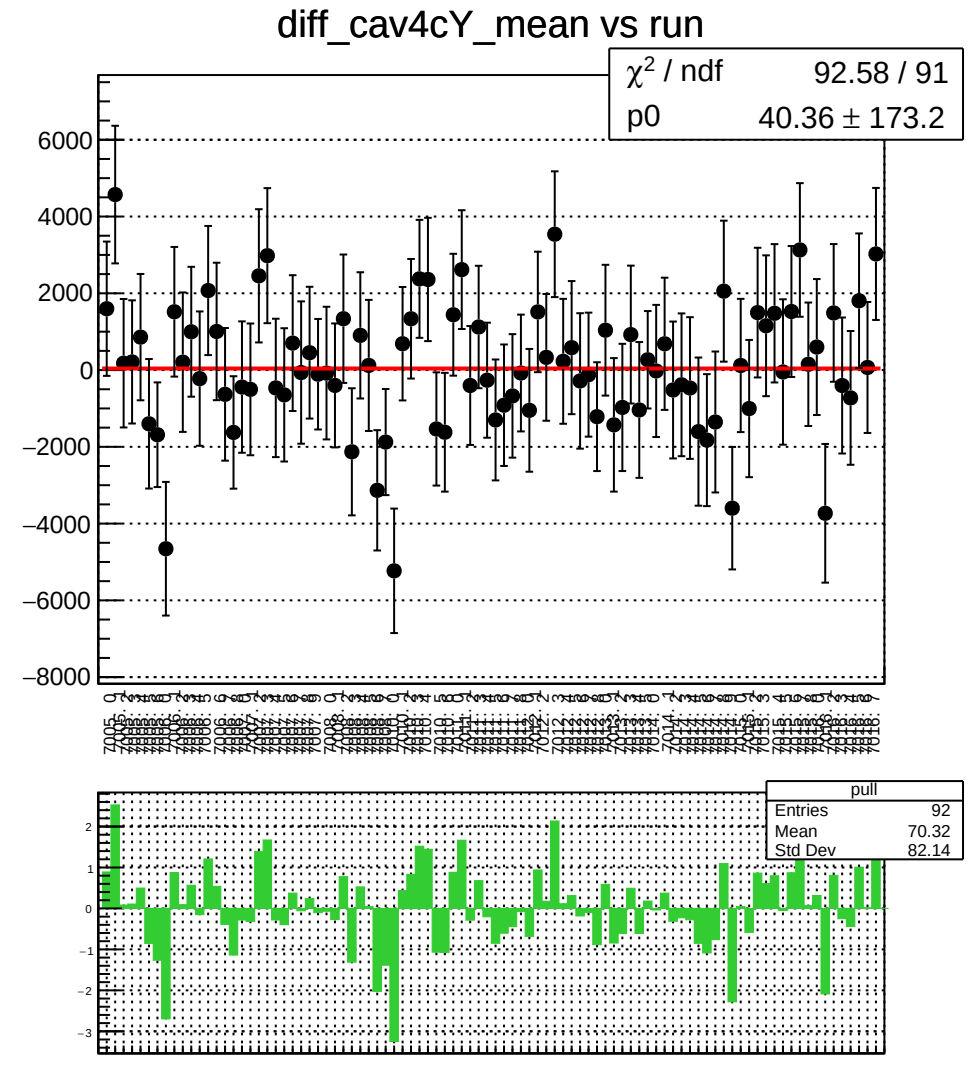

pull1D
Entries 92
Mean 0.01338
Std Dev 1.009
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

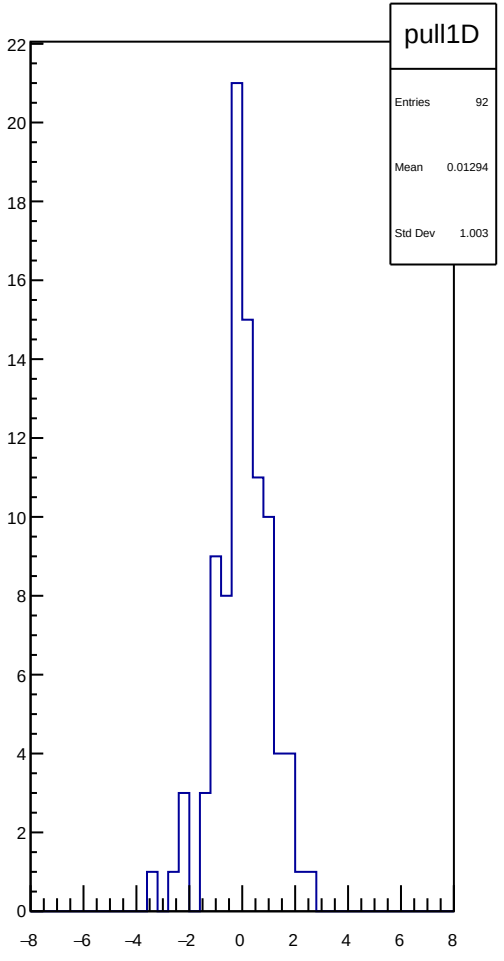

diff_cav4bY_rms vs run
×10^3
340
320
300
280
260
χ² / ndf 5593 / 91
p0 2.922e+05 ± 223.5

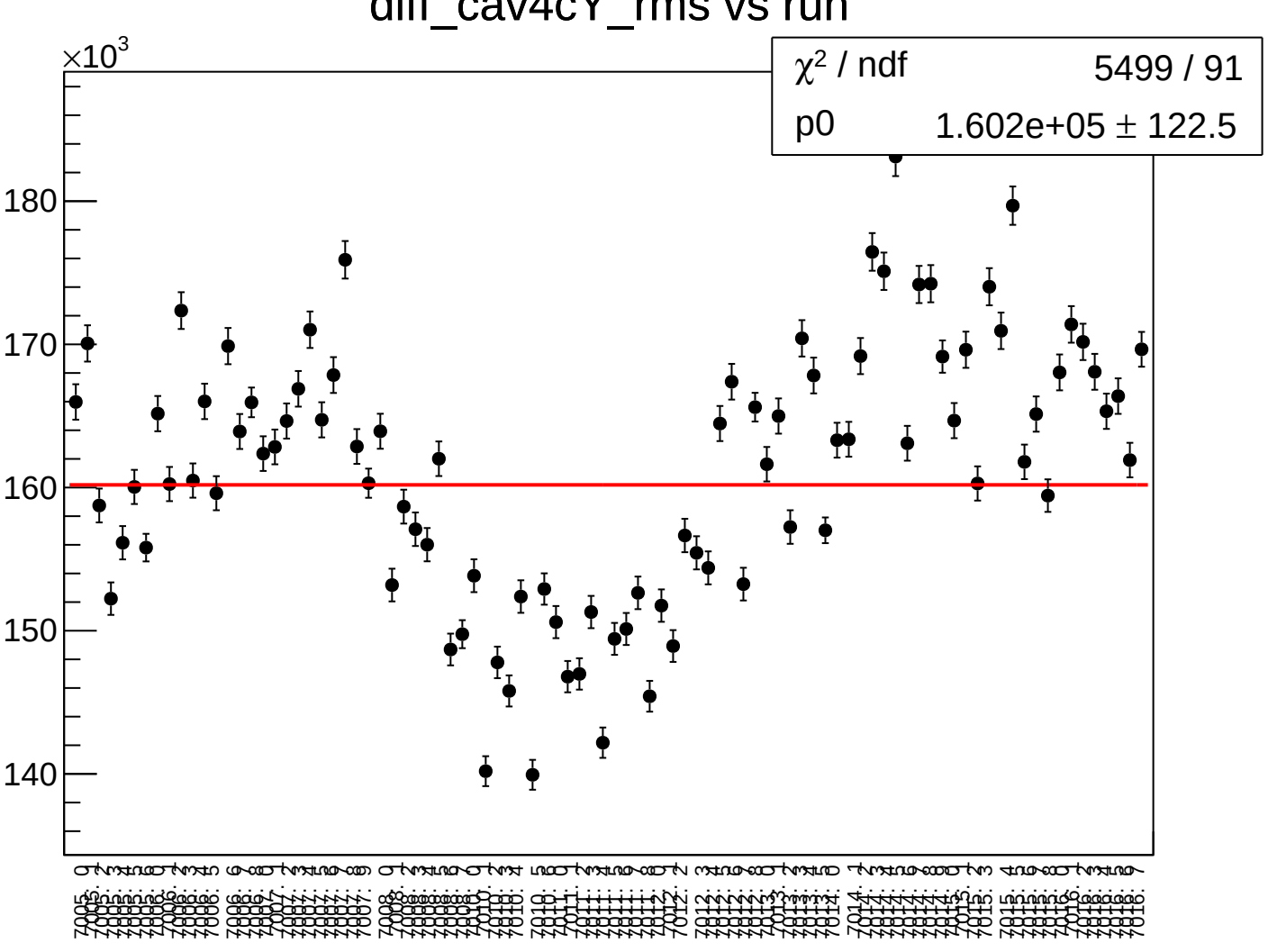

diff_cav4cX_mean vs run
χ² / ndf 77.65 / 91
p0 −239.8 ± 268.3
pull
Entries 92
Mean −11.14
Std Dev 59.15

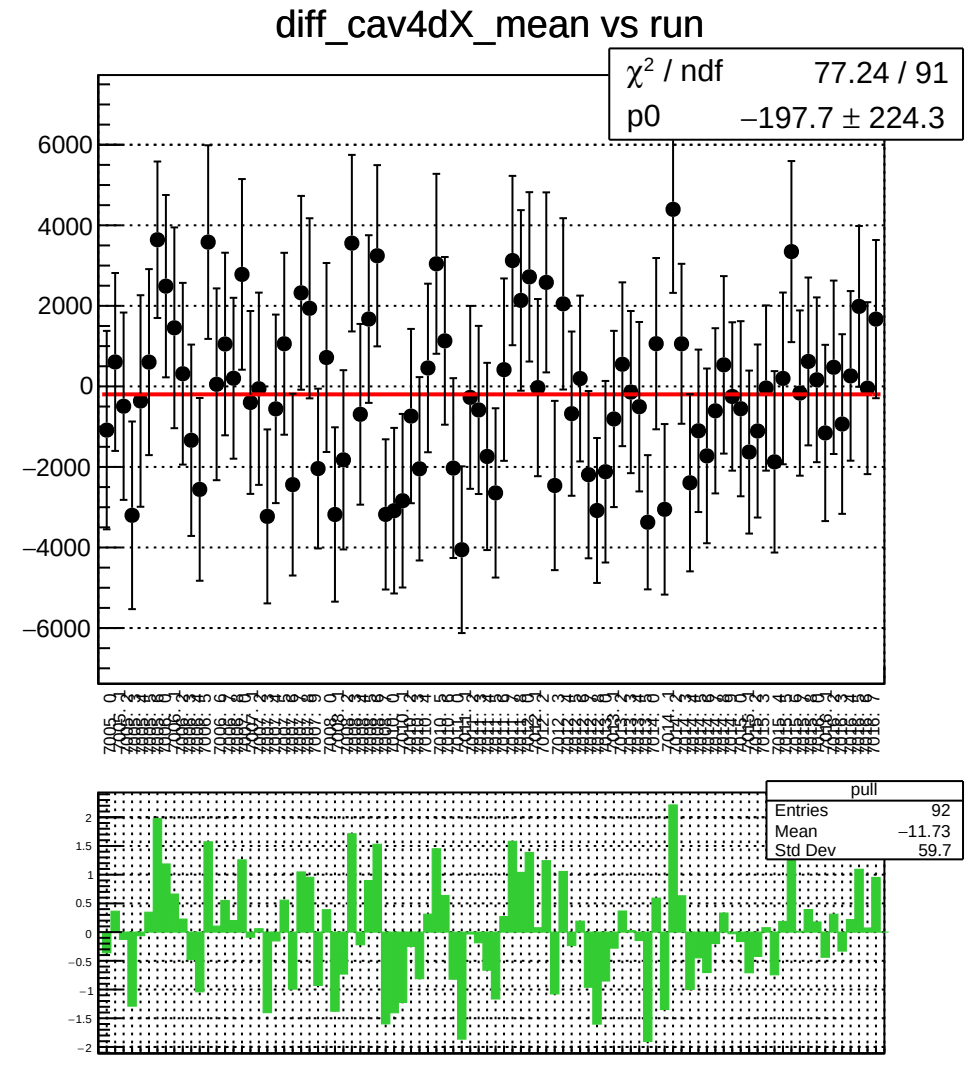

pull1D
Entries 92
Mean 0.01316
Std Dev 0.9186

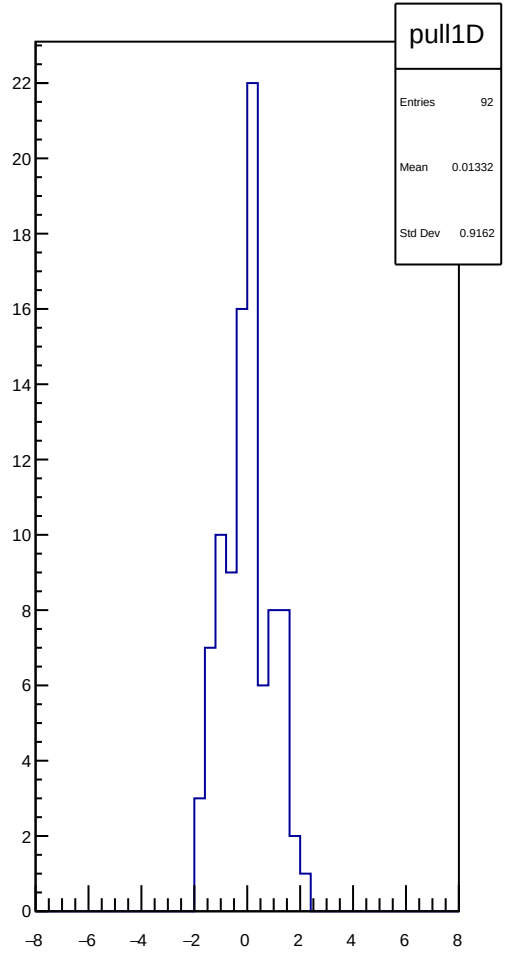

diff_cav4cX_rms vs run
×10^3
χ² / ndf 5301 / 91
p0 2.481e+05 ± 189.7
300
290
280
270
260
250
240
230
220

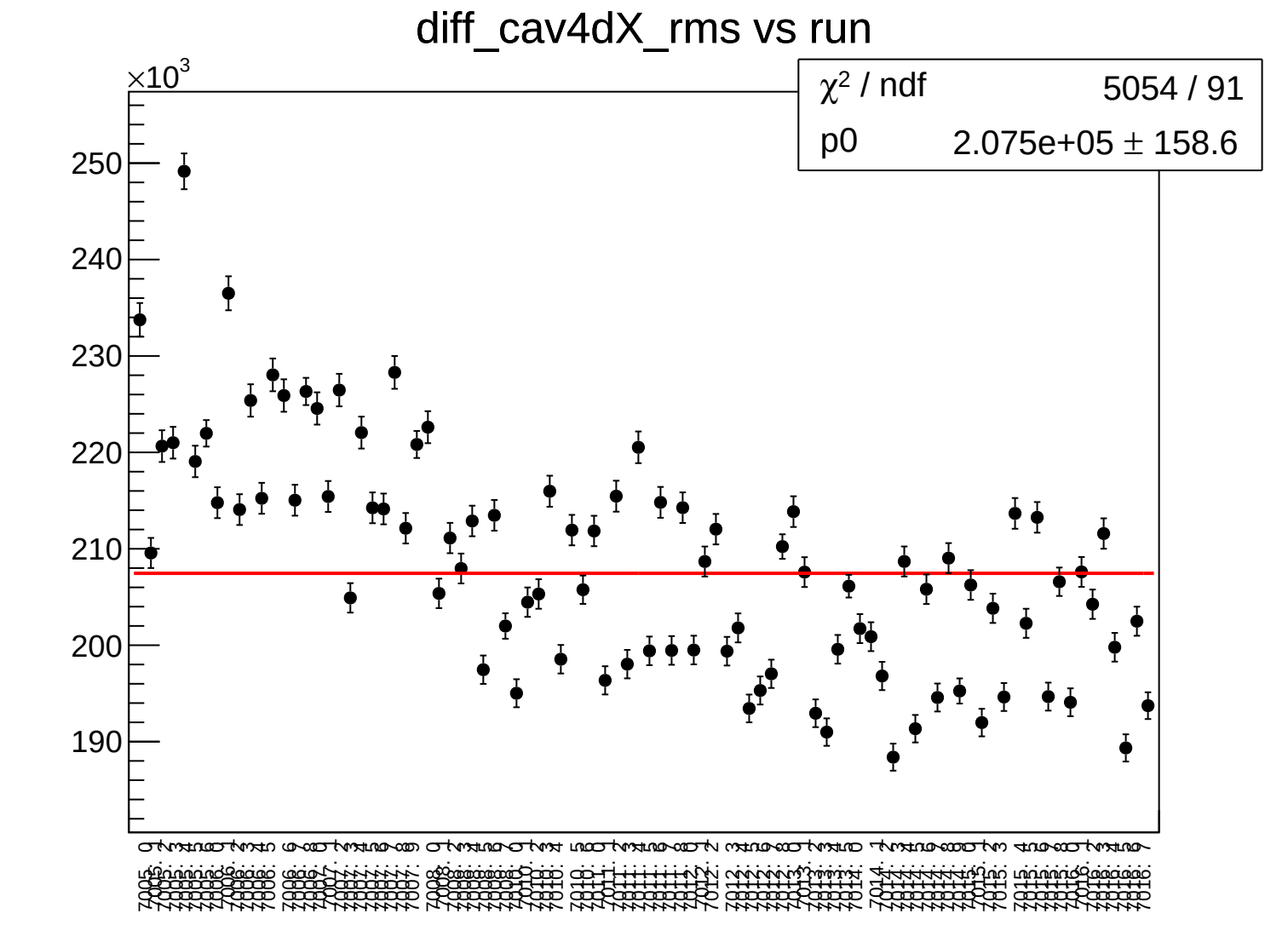

diff_cav4cY_mean vs run
χ² / ndf 92.58 / 91
p0 40.36 ± 173.2
pull
Entries 92
Mean 70.32
Std Dev 82.14

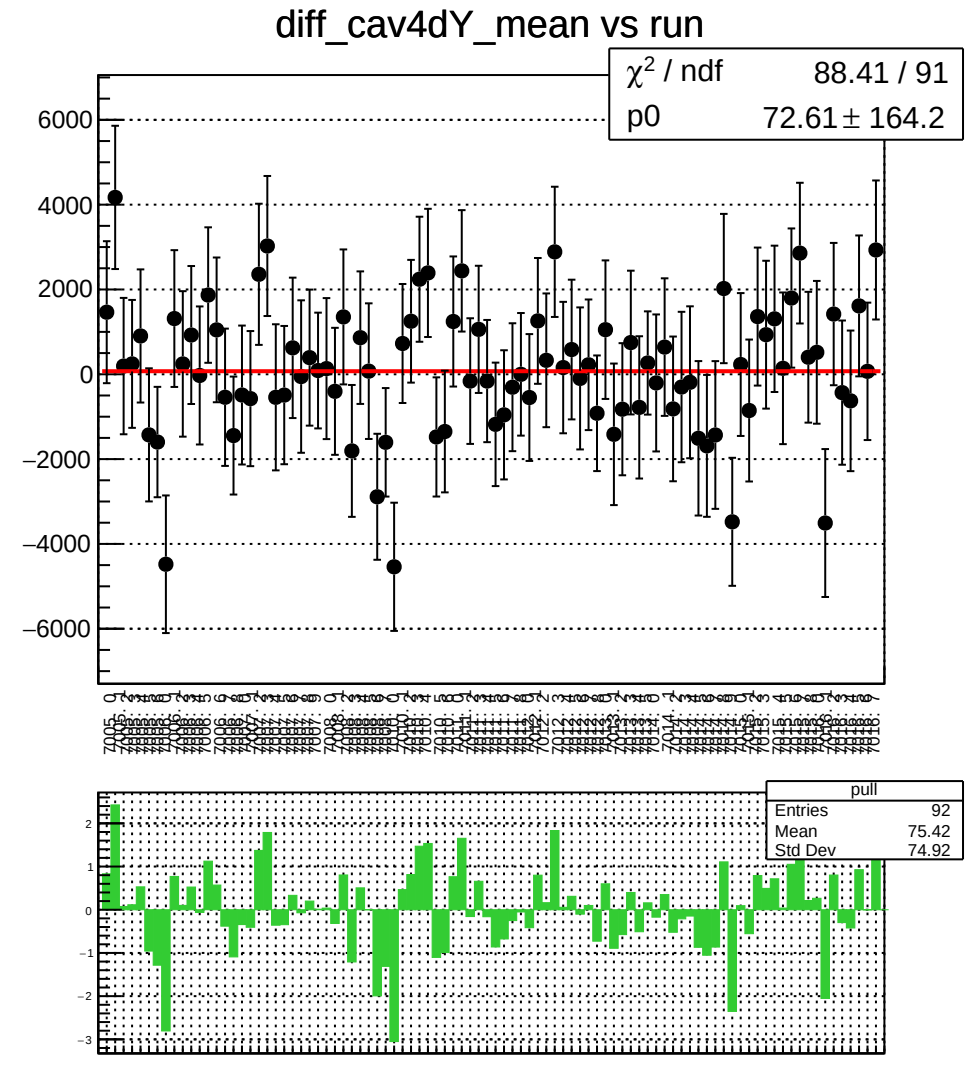

pull1D
Entries 92
Mean 0.01294
Std Dev 1.003

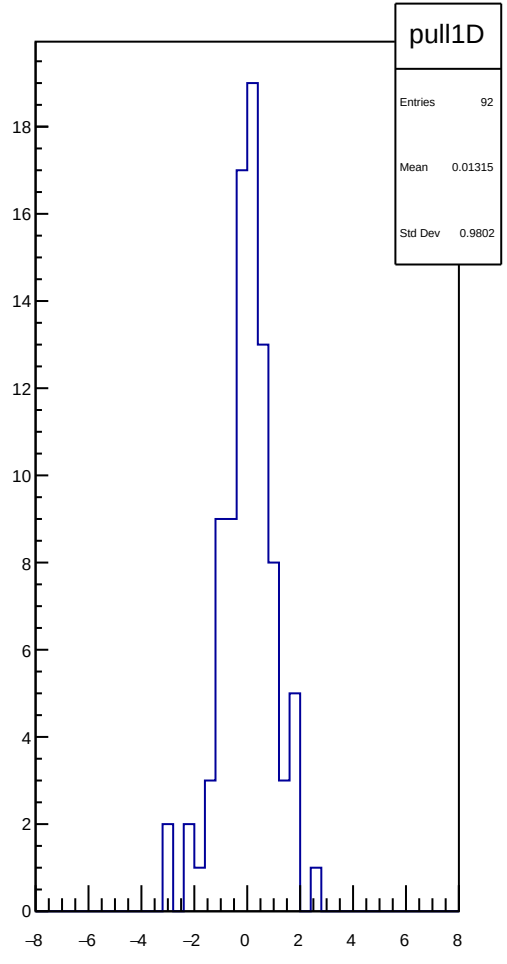

diff_cav4cY_rms vs run
×10^3
χ² / ndf 5499 / 91
p0 1.602e+05 ± 122.5
180
170
160
150
140

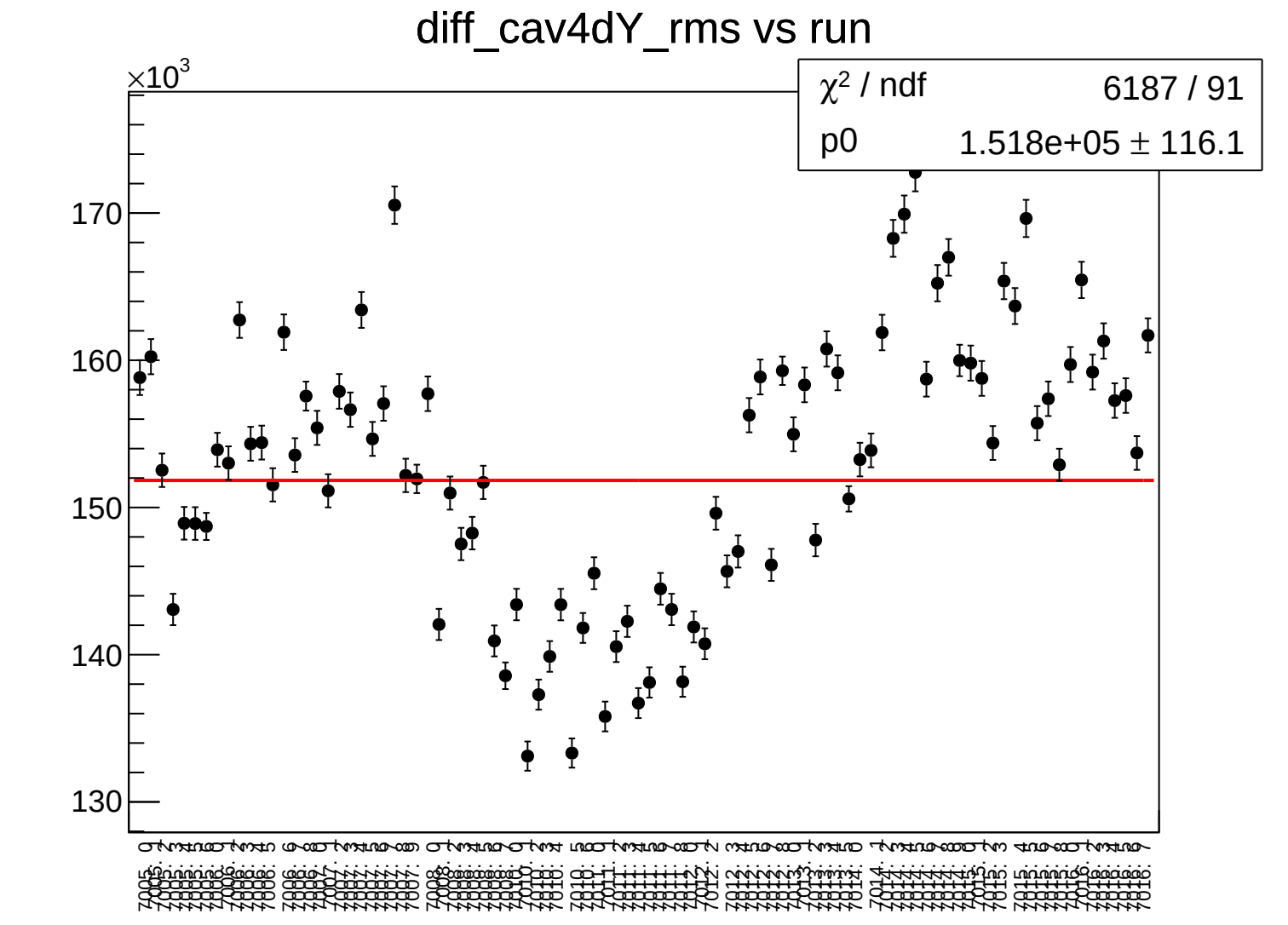

diff_cav4dX_mean vs run
χ² / ndf 77.24 / 91
p0 −197.7 ± 224.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −11.73
Std Dev 59.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

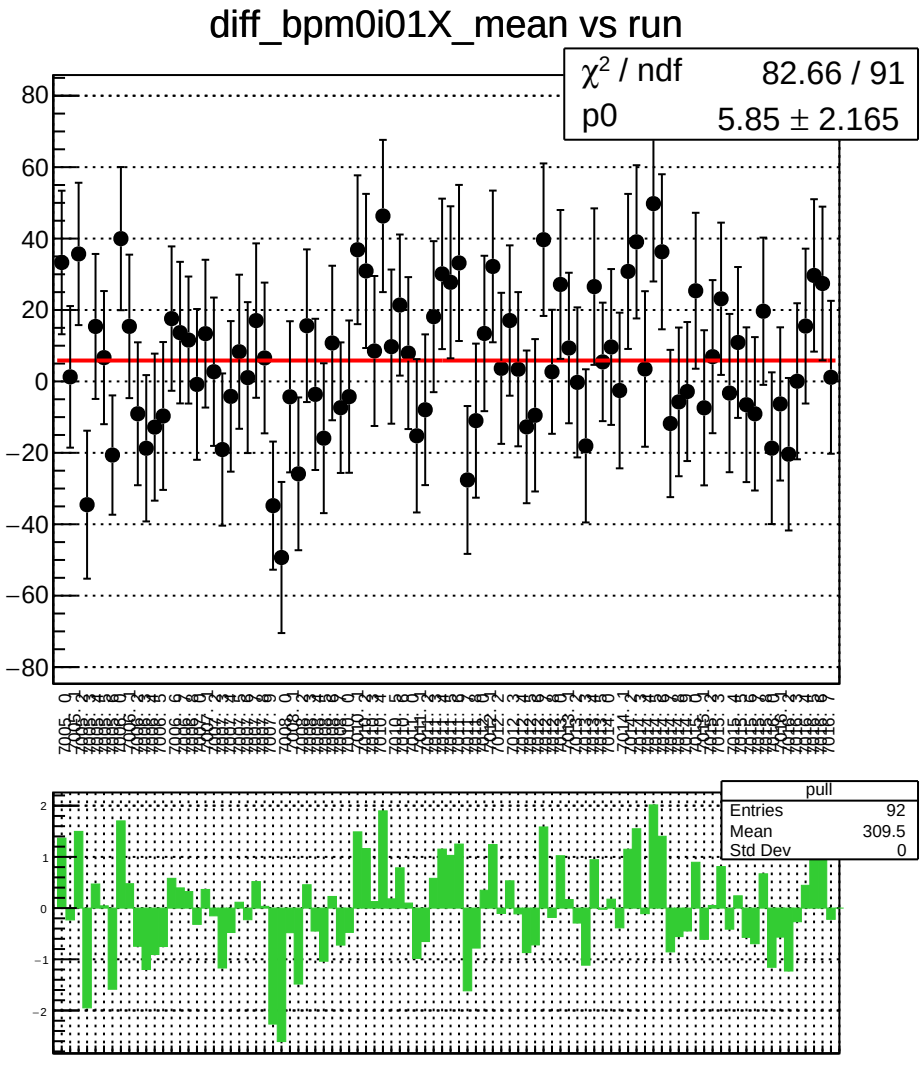

pull1D
Entries 92
Mean 0.01332
Std Dev 0.9162
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

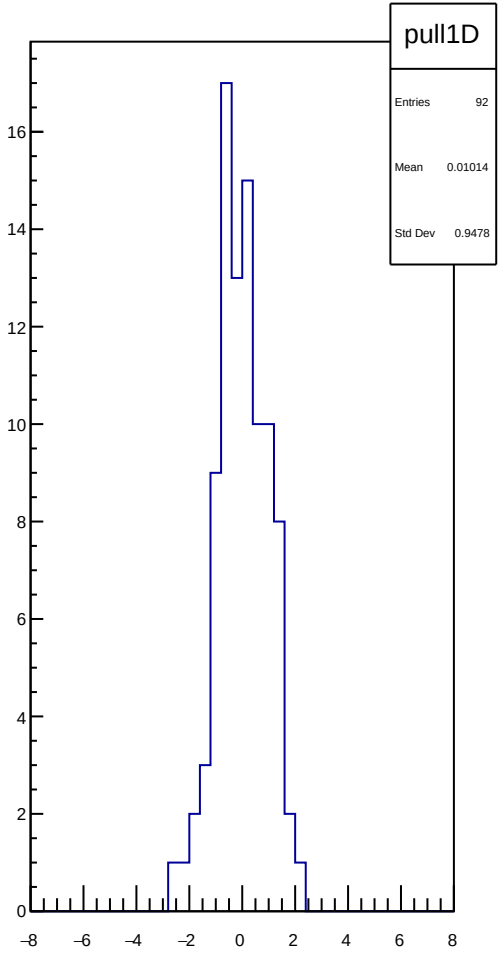

diff_cav4dX_rms vs run
×10^3
χ² / ndf 5054 / 91
p0 2.075e+05 ± 158.6
250
240
230
220
210
200
190

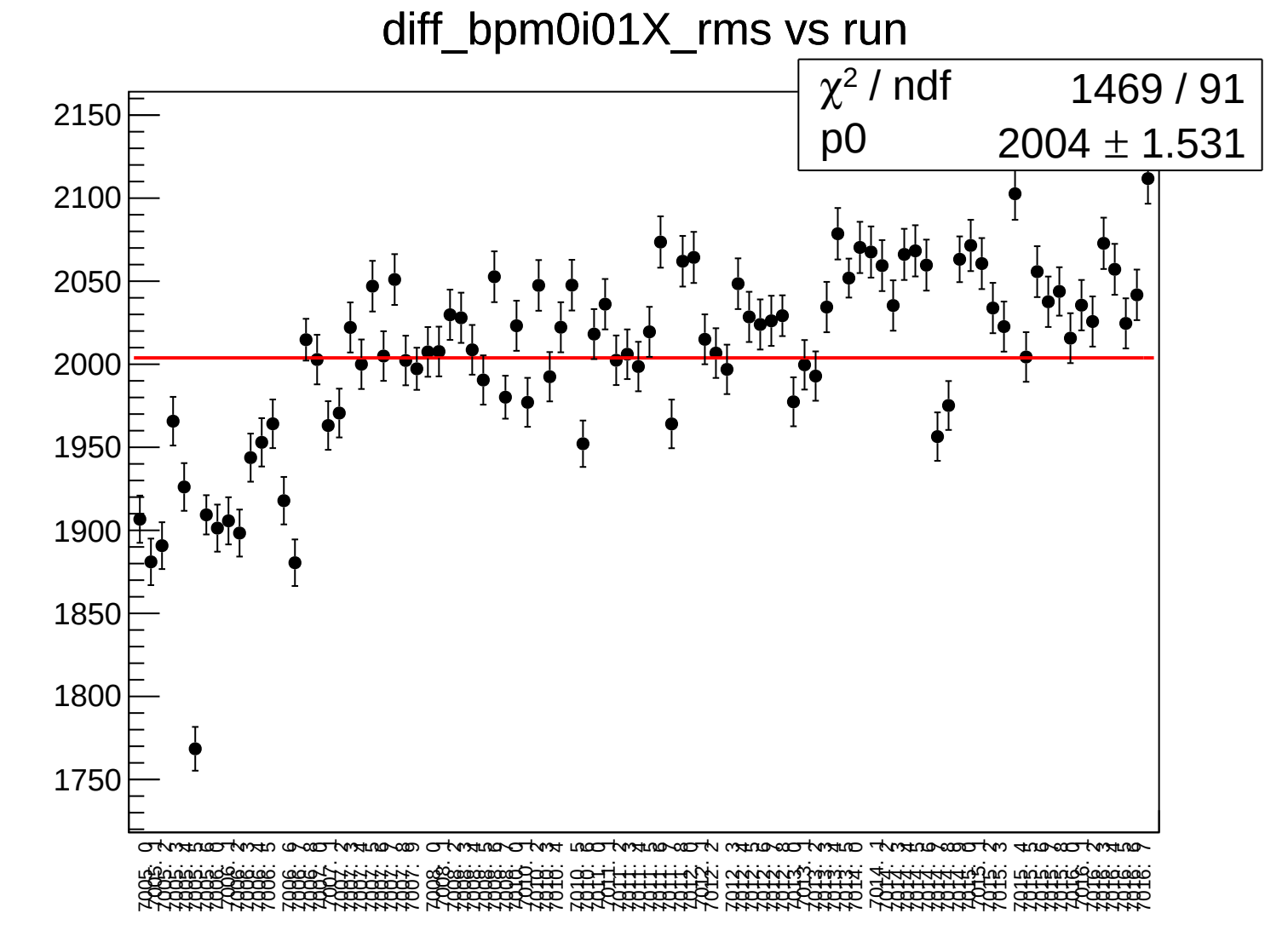

diff_cav4dY_mean vs run
$\chi^2$ / ndf 88.41 / 91
p0 72.61 ± 164.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 75.42
Std Dev 74.92
2
1
0
−1
−2
−3

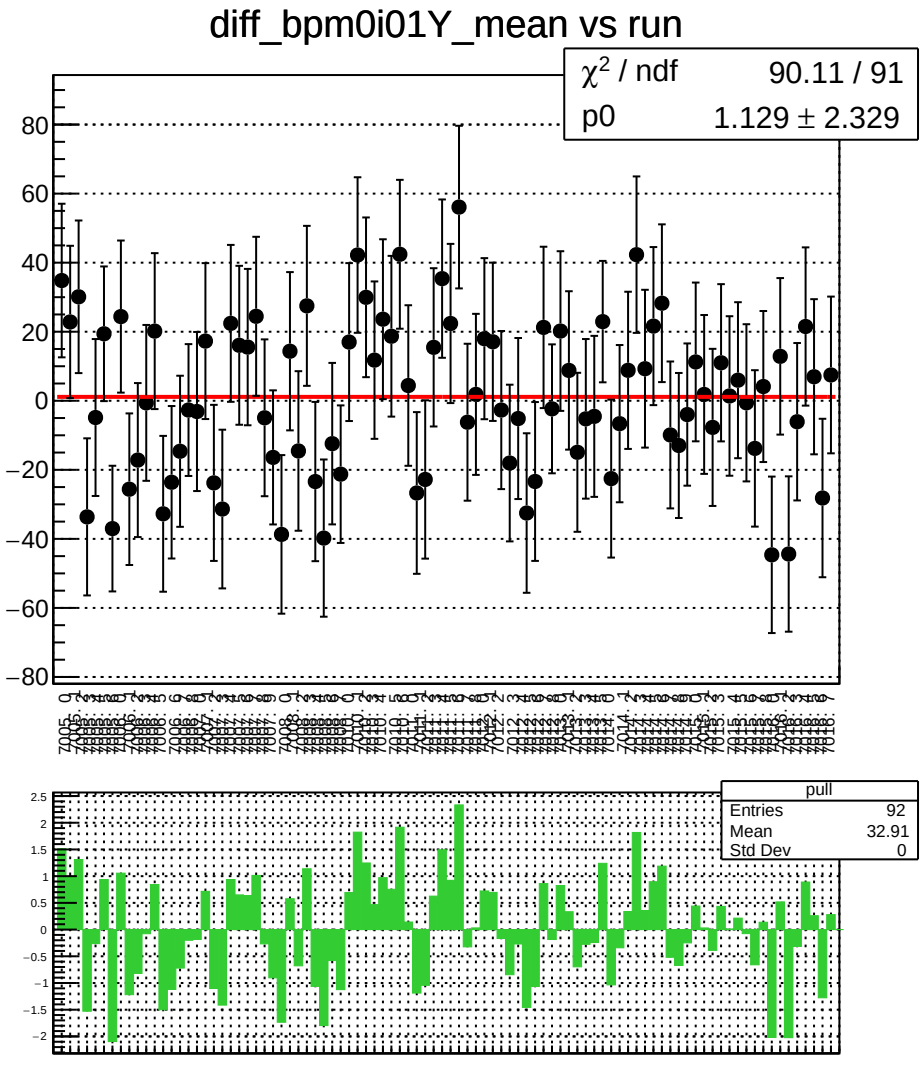

pull1D
Entries 92
Mean 0.01315
Std Dev 0.9802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

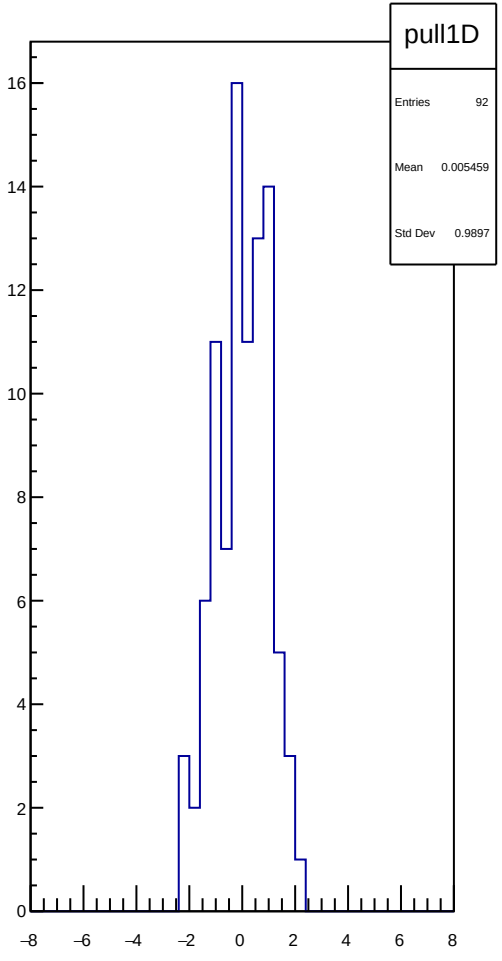

diff_cav4dY_rms vs run
×10^3
χ² / ndf 6187 / 91
p0 1.518e+05 ± 116.1
170
160
150
140
130

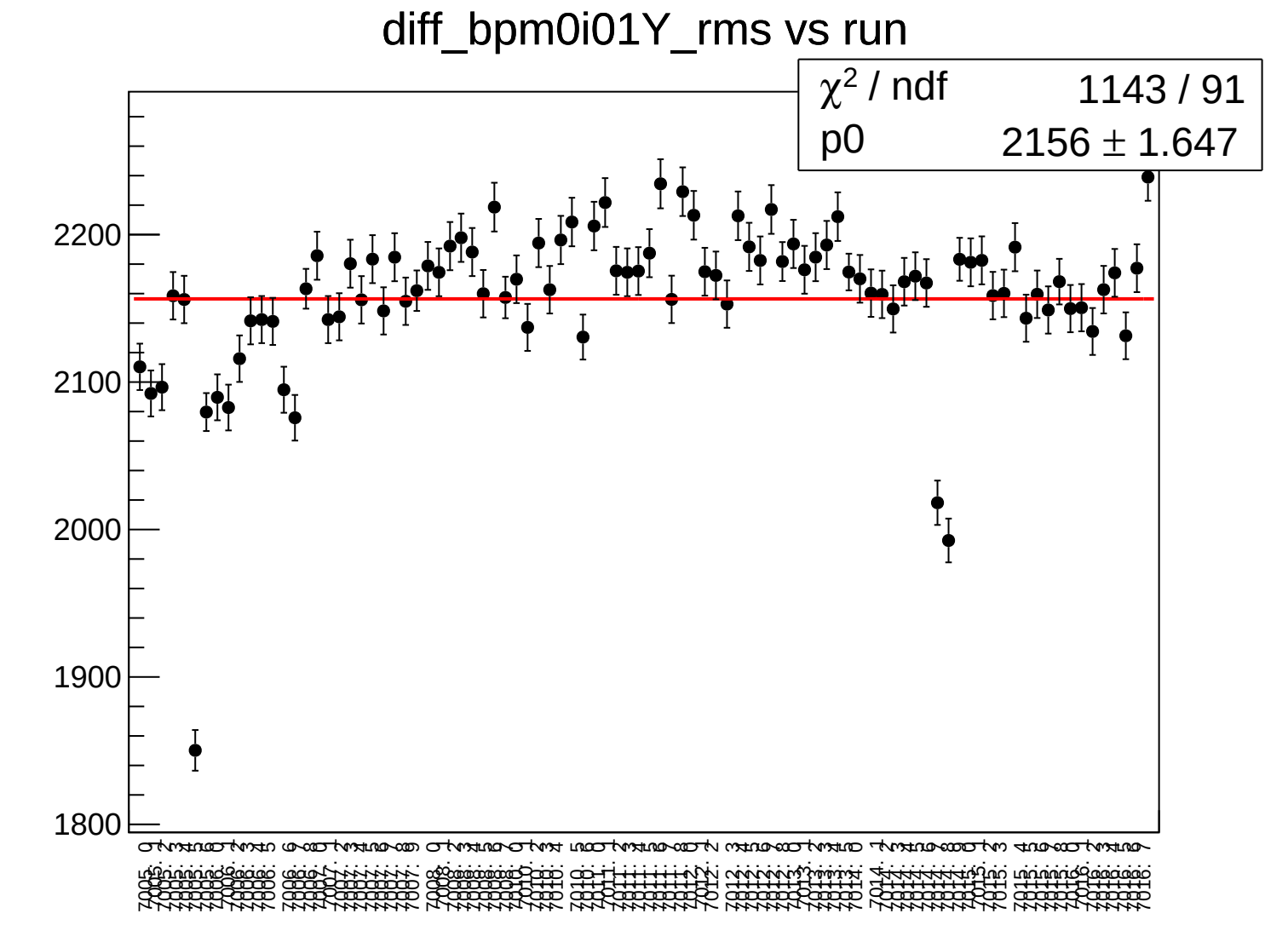

diff_bpm0i01X_mean vs run
χ² / ndf 82.66 / 91
p0 5.85 ± 2.165
pull
Entries 92
Mean 309.5
Std Dev 0

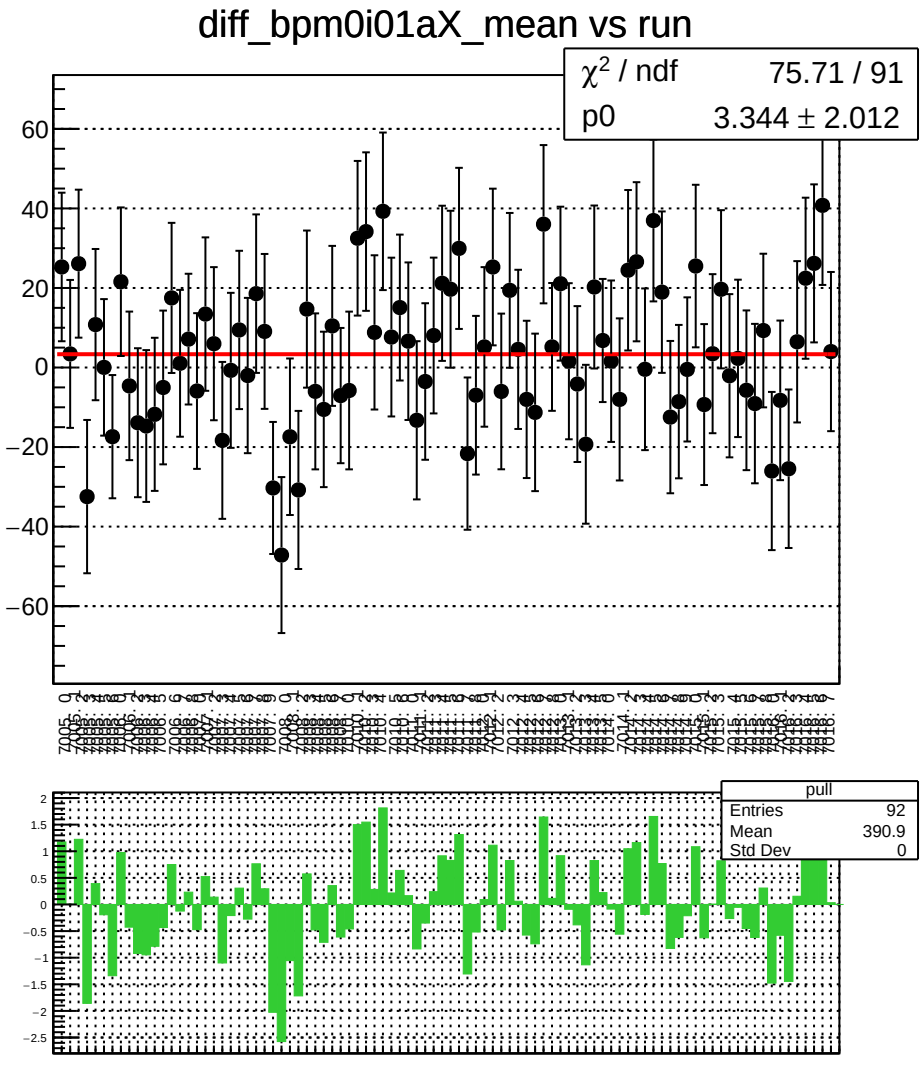

pull1D
Entries 92
Mean 0.01014
Std Dev 0.9478

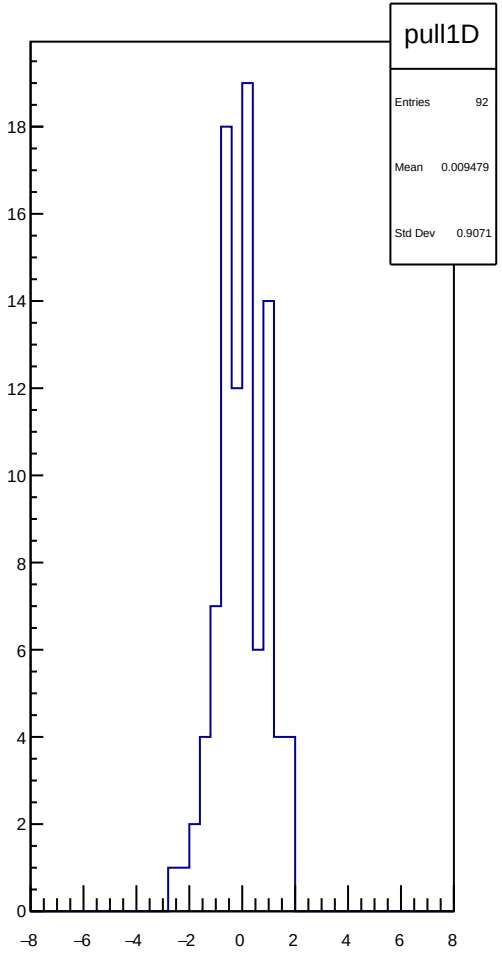

diff_bpm0i01X_rms vs run
χ² / ndf 1469 / 91
p0 2004 ± 1.531
2150
2100
2050
2000
1950
1900
1850
1800
1750

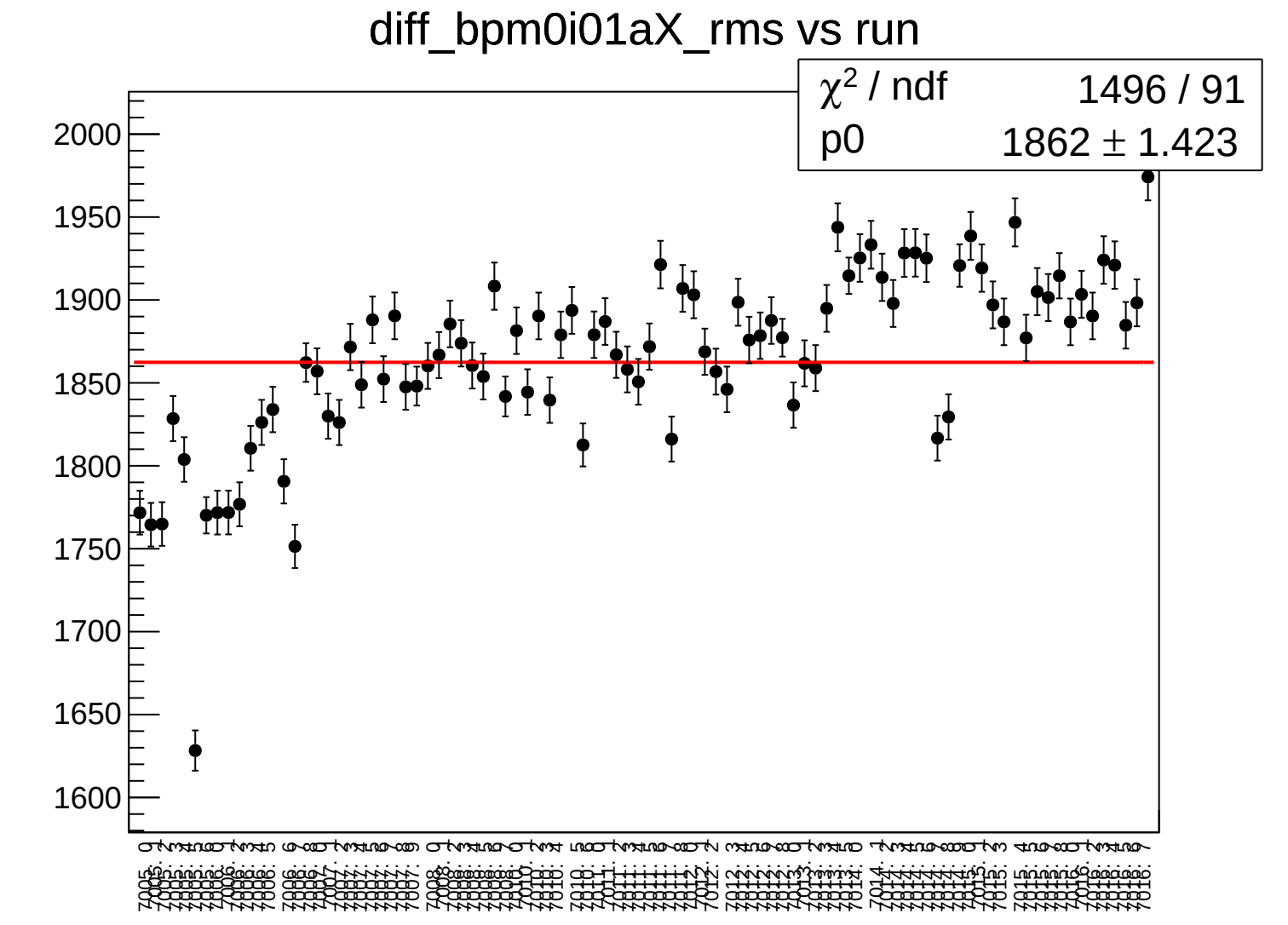

diff_bpm0i01Y_mean vs run
χ² / ndf 90.11 / 91
p0 1.129 ± 2.329
pull
Entries 92
Mean 32.91
Std Dev 0

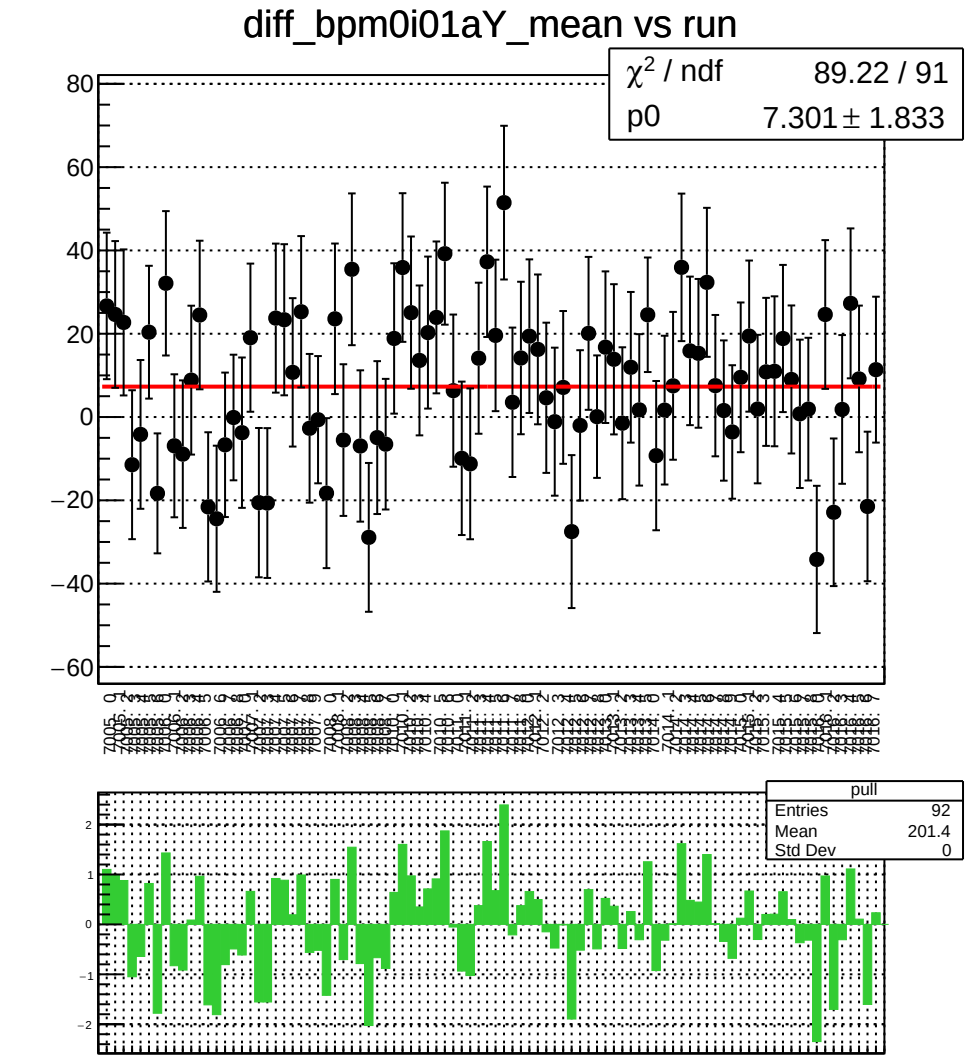

pull1D
Entries 92
Mean 0.005459
Std Dev 0.9897

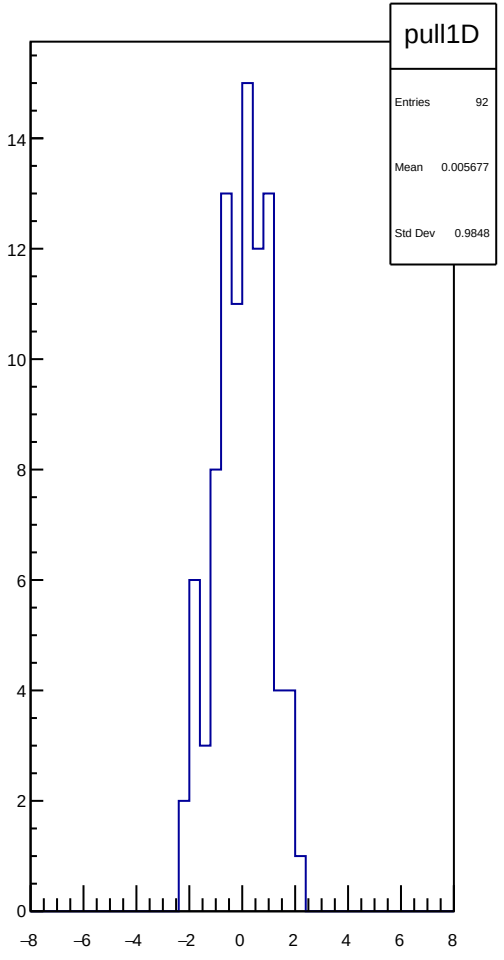

diff_bpm0i01Y_rms vs run
χ² / ndf 1143 / 91
p0 2156 ± 1.647
2200
2100
2000
1900
1800

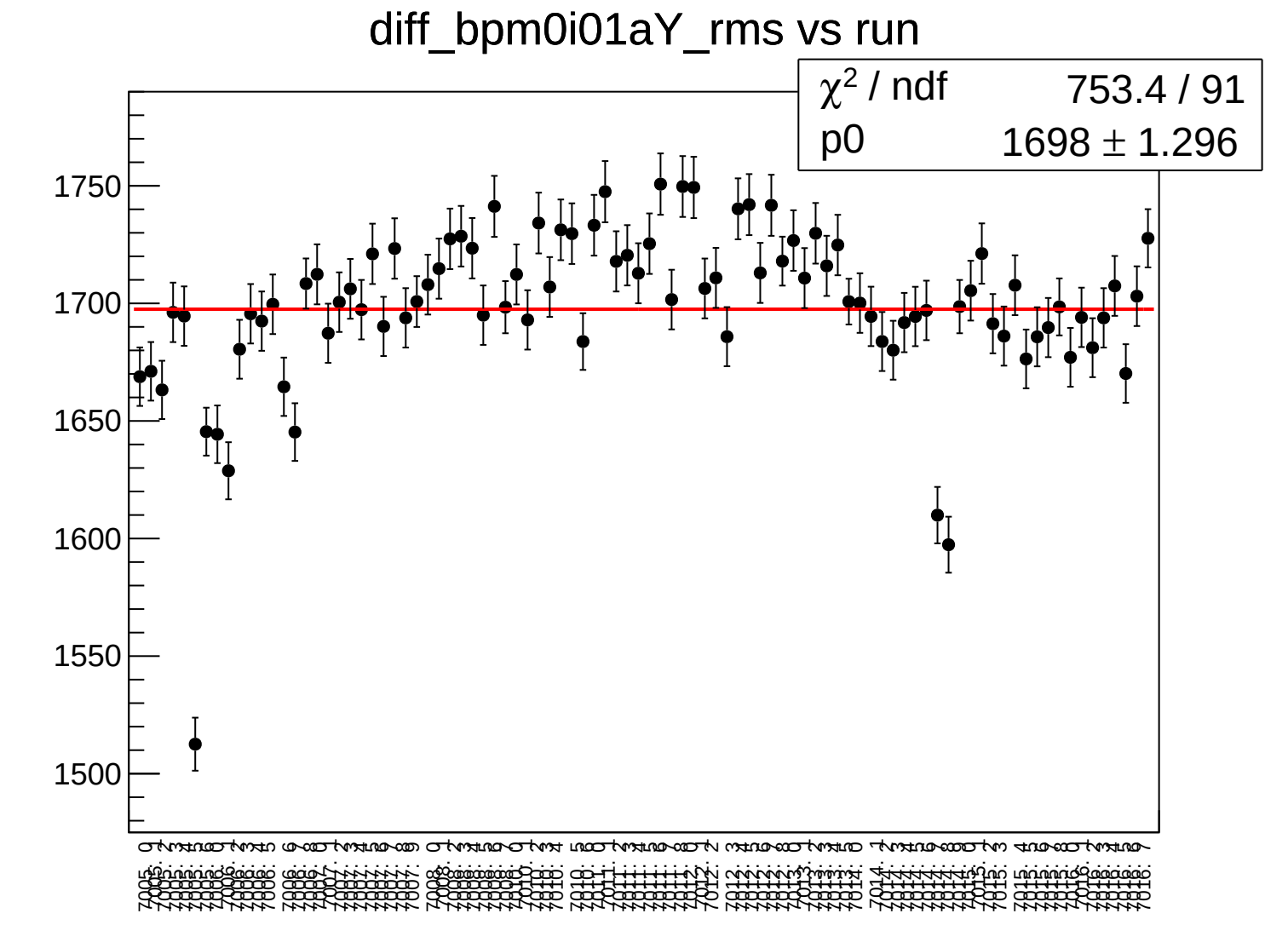

diff_bpm0i01aX_mean vs run
$\chi^2$ / ndf 75.71 / 91
p0 3.344 ± 2.012
pull
Entries 92
Mean 390.9
Std Dev 0

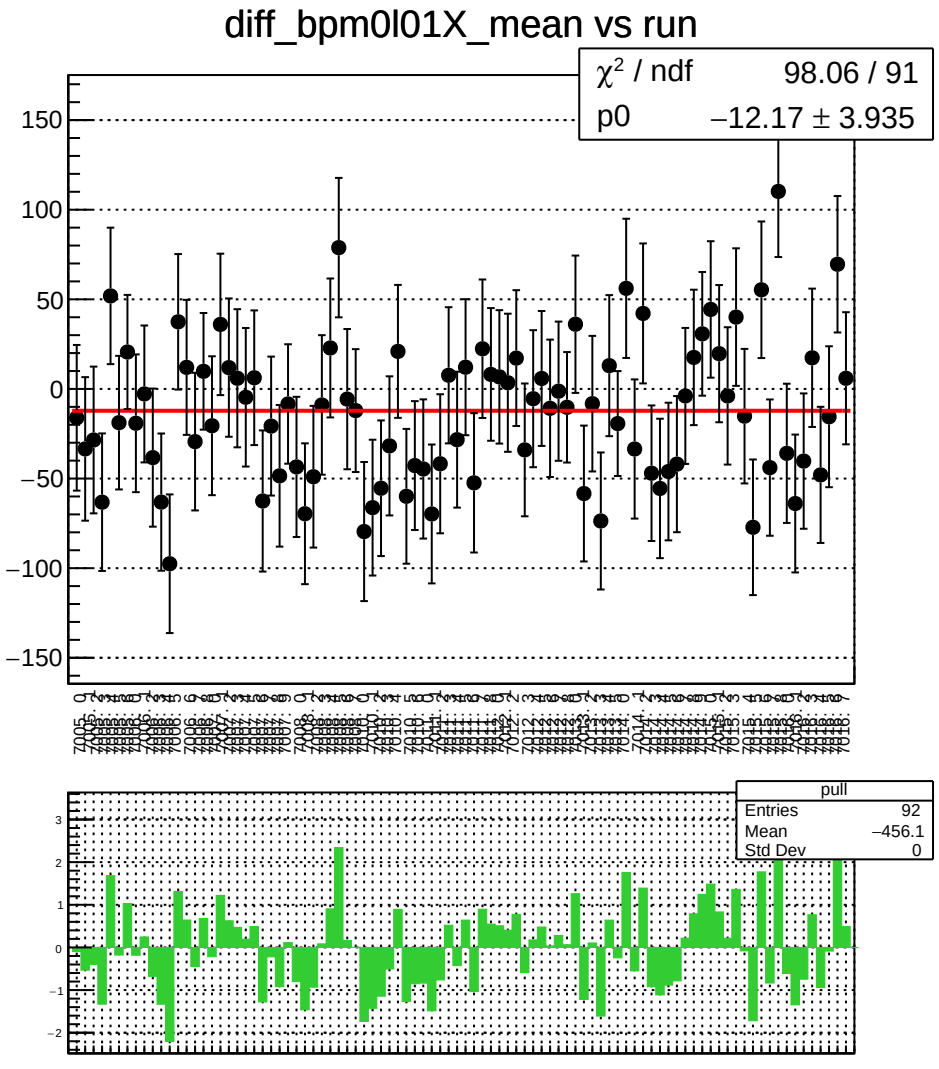

pull1D
Entries 92
Mean 0.009479
Std Dev 0.9071

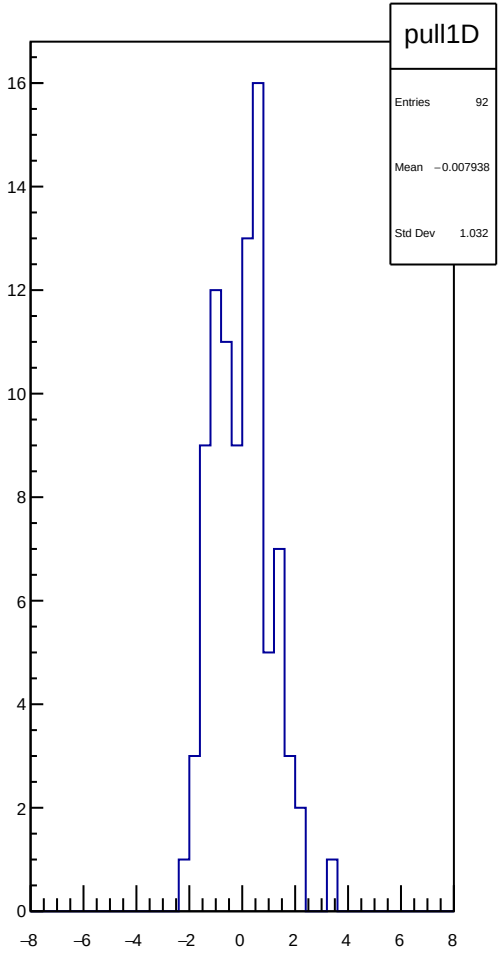

diff_bpm0i01aX_rms vs run
χ² / ndf 1496 / 91
p0 1862 ± 1.423
2000
1950
1900
1850
1800
1750
1700
1650
1600

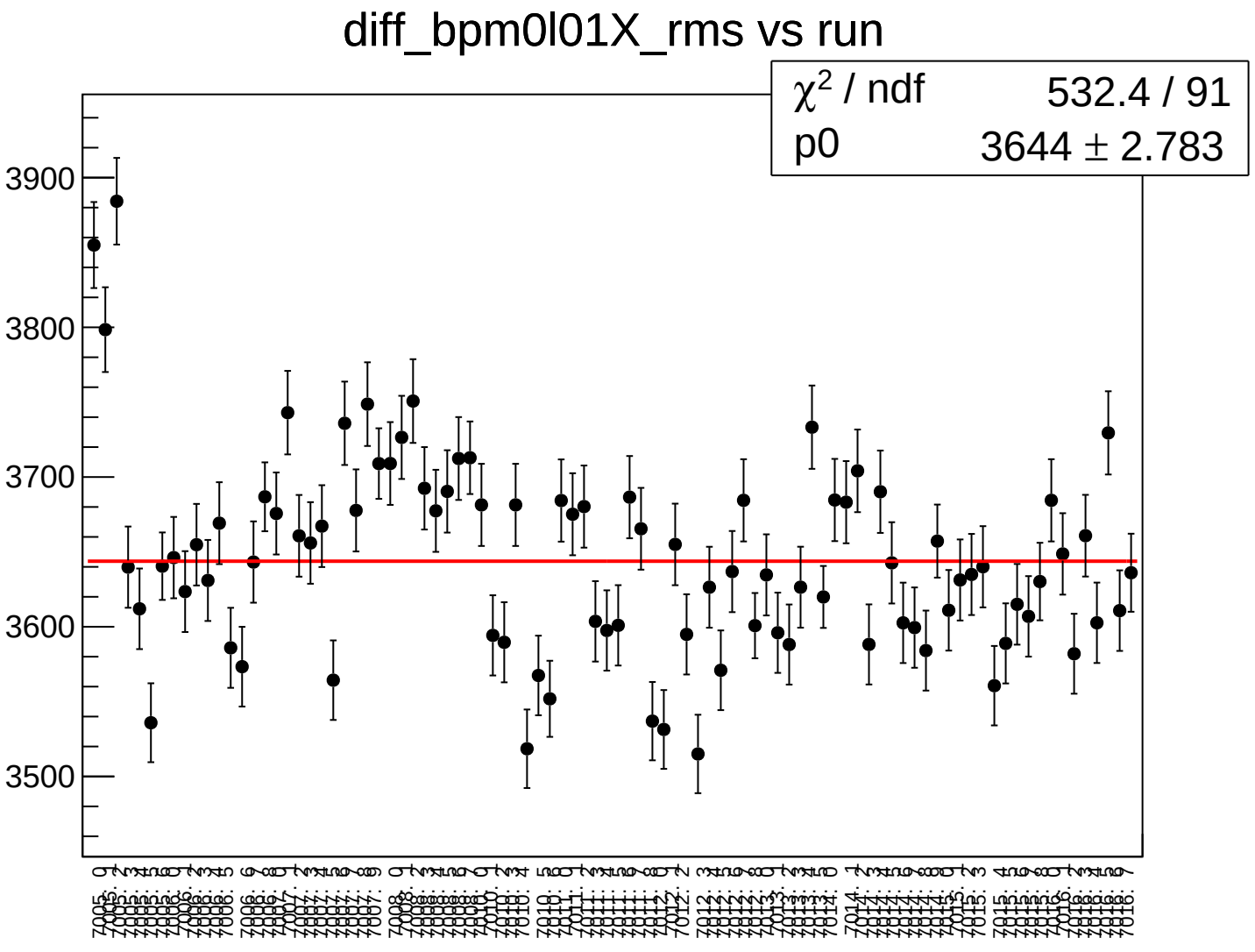

diff_bpm0i01aY_mean vs run
χ² / ndf 89.22 / 91
p0 7.301 ± 1.833
pull
Entries 92
Mean 201.4
Std Dev 0

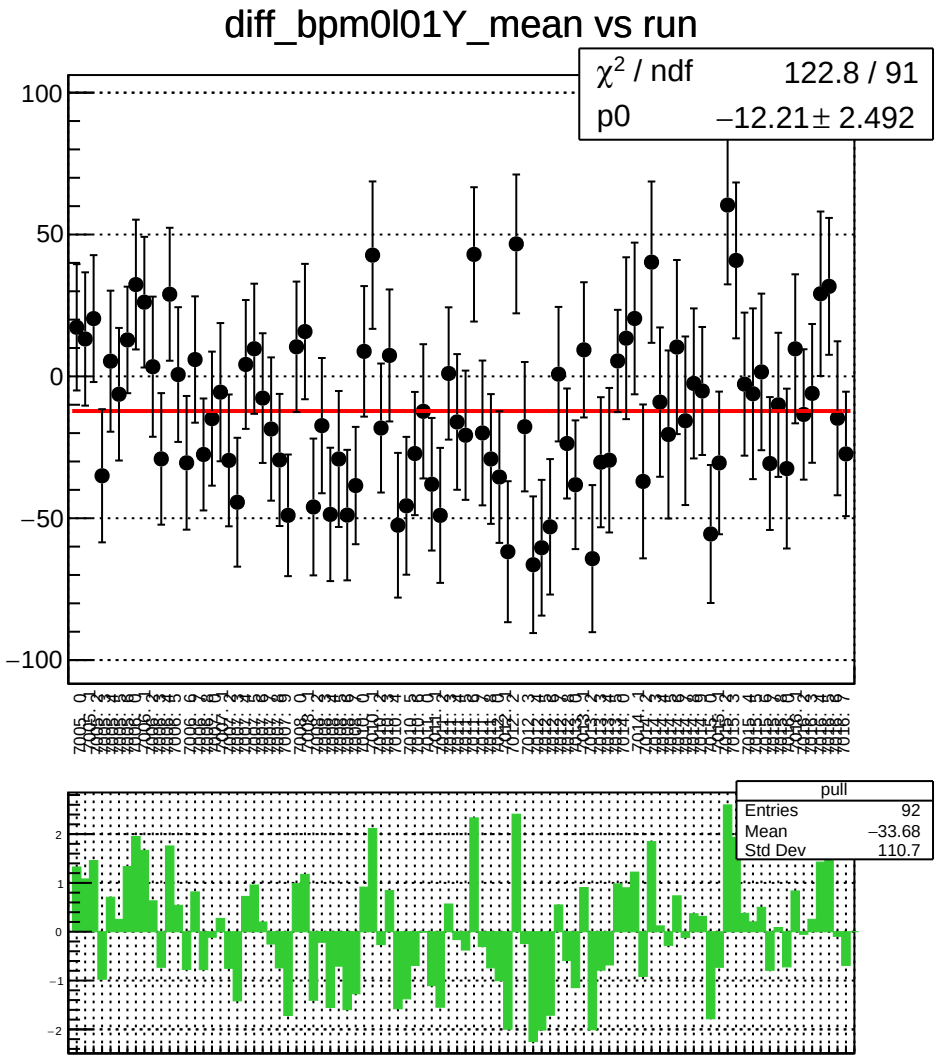

pull1D
Entries 92
Mean 0.005677
Std Dev 0.9848

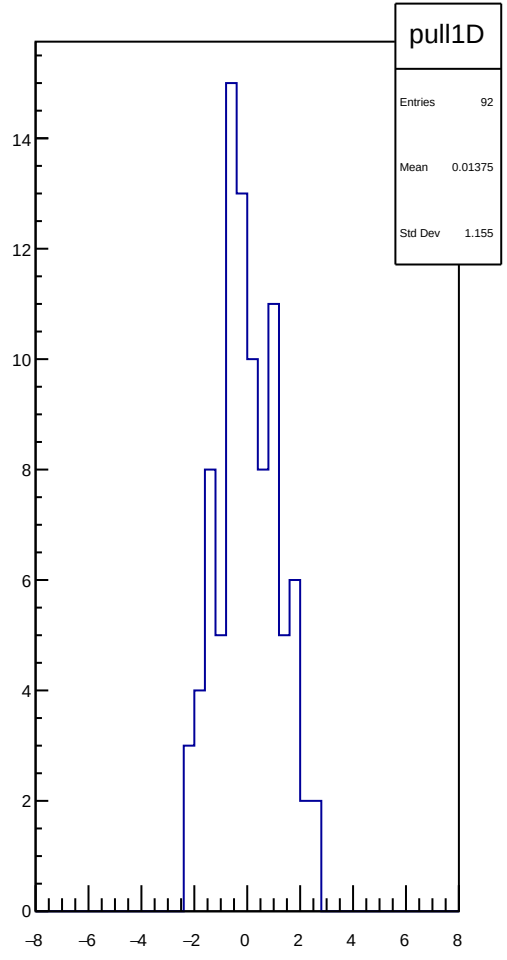

diff_bpm0i01aY_rms vs run
χ² / ndf 753.4 / 91
p0 1698 ± 1.296
1750
1700
1650
1600
1550
1500

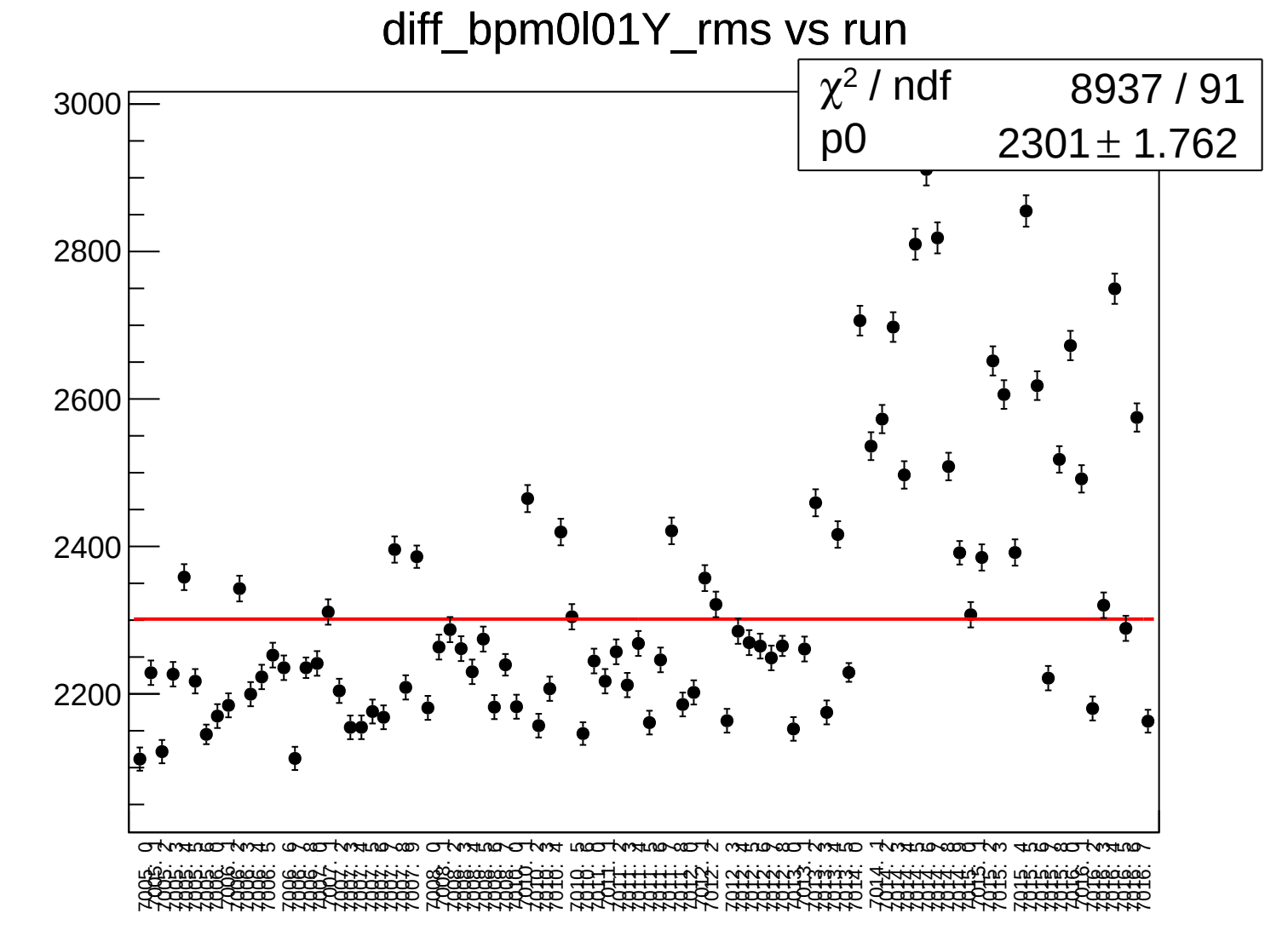

diff_bpm0l01X_mean vs run
$\chi^2$ / ndf 98.06 / 91
p0 −12.17 ± 3.935
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −456.1
Std Dev 0
3
2
1
0
−1
−2

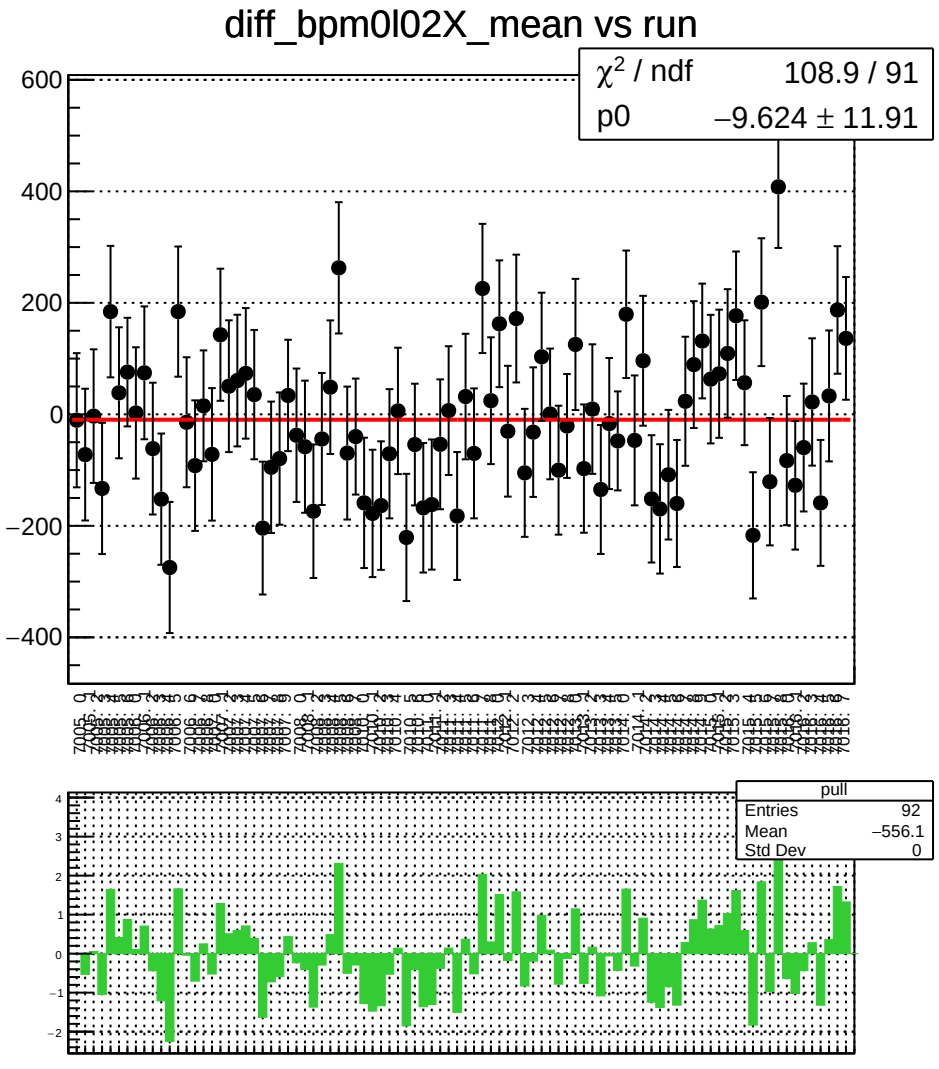

pull1D
Entries 92
Mean −0.007938
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

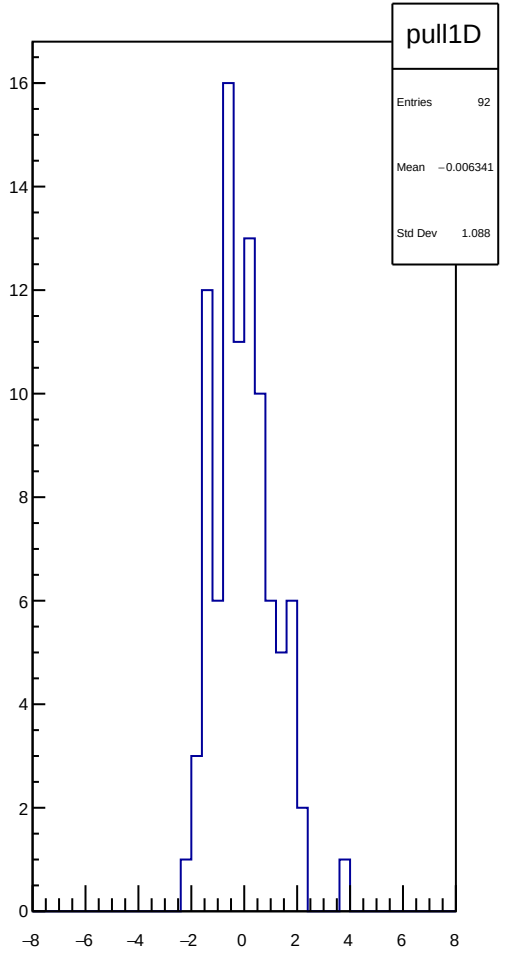

diff_bpm0l01X_rms vs run
χ² / ndf 532.4 / 91
p0 3644 ± 2.783
3900
3800
3700
3600
3500

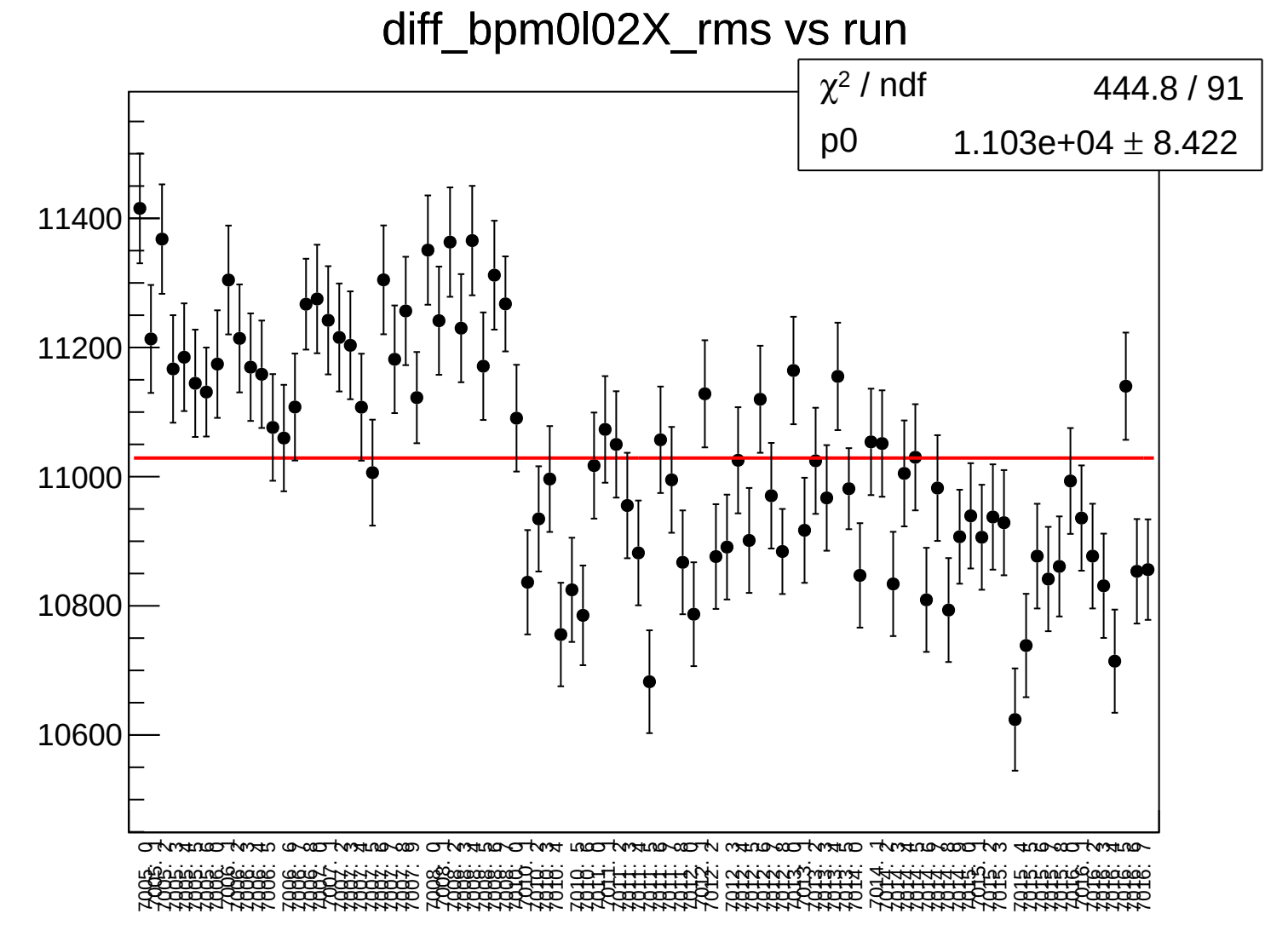

diff_bpm0l01Y_mean vs run
χ² / ndf 122.8 / 91
p0 −12.21 ± 2.492
100
50
0
−50
−100
pull
Entries 92
Mean −33.68
Std Dev 110.7
2
1
0
−1
−2

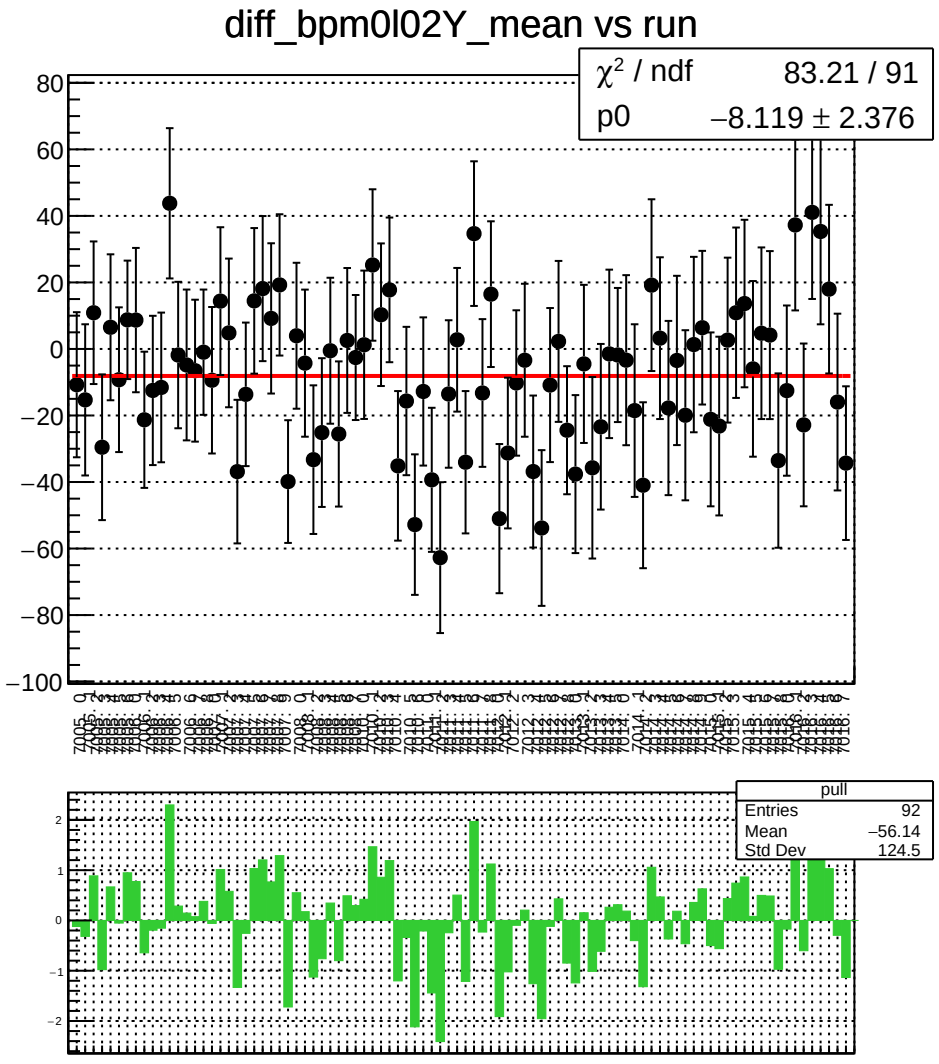

pull1D
Entries 92
Mean 0.01375
Std Dev 1.155
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

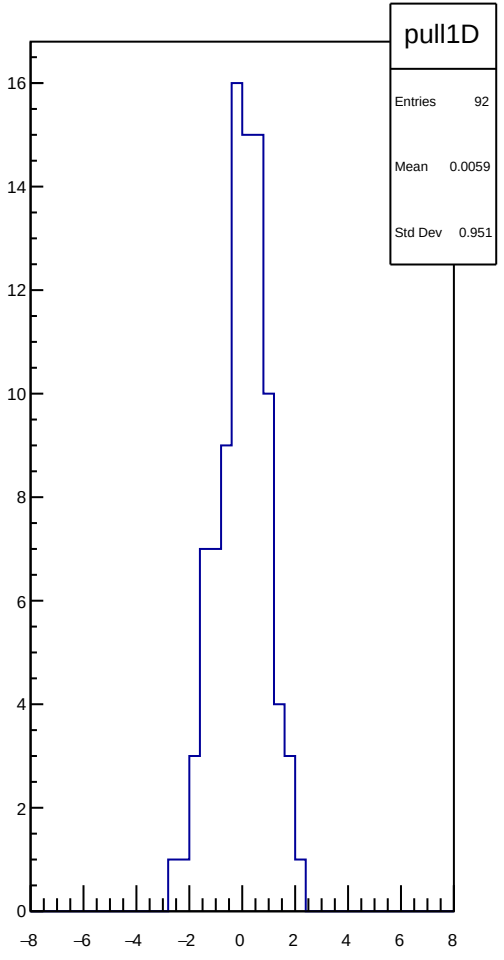

diff_bpm0l01Y_rms vs run
χ² / ndf 8937 / 91
p0 2301 ± 1.762
3000
2800
2600
2400
2200

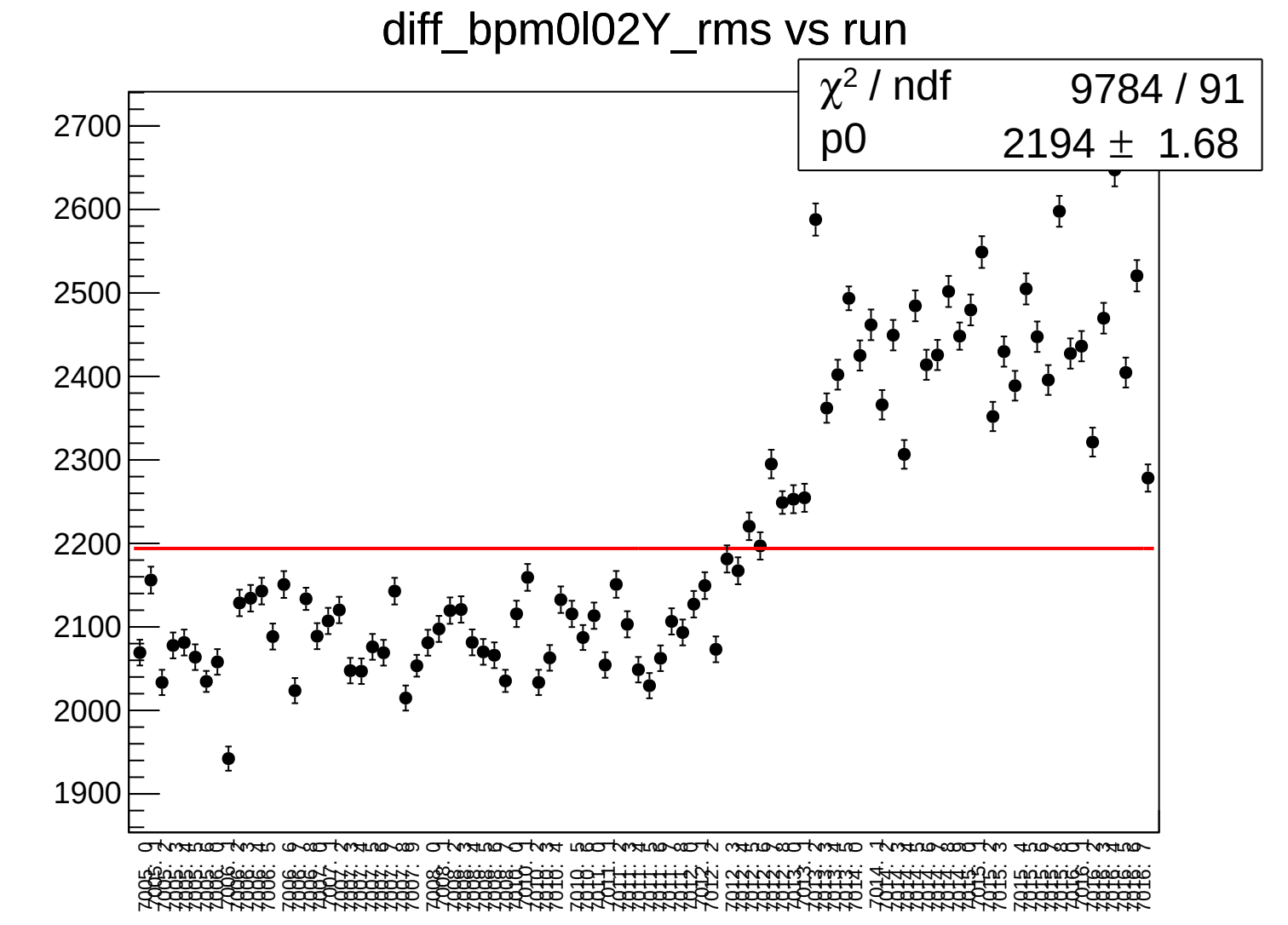

diff_bpm0l02X_mean vs run
χ² / ndf 108.9 / 91
p0 −9.624 ± 11.91
600
400
200
0
−200
−400
pull
Entries 92
Mean −556.1
Std Dev 0
4
3
2
1
0
−1
−2

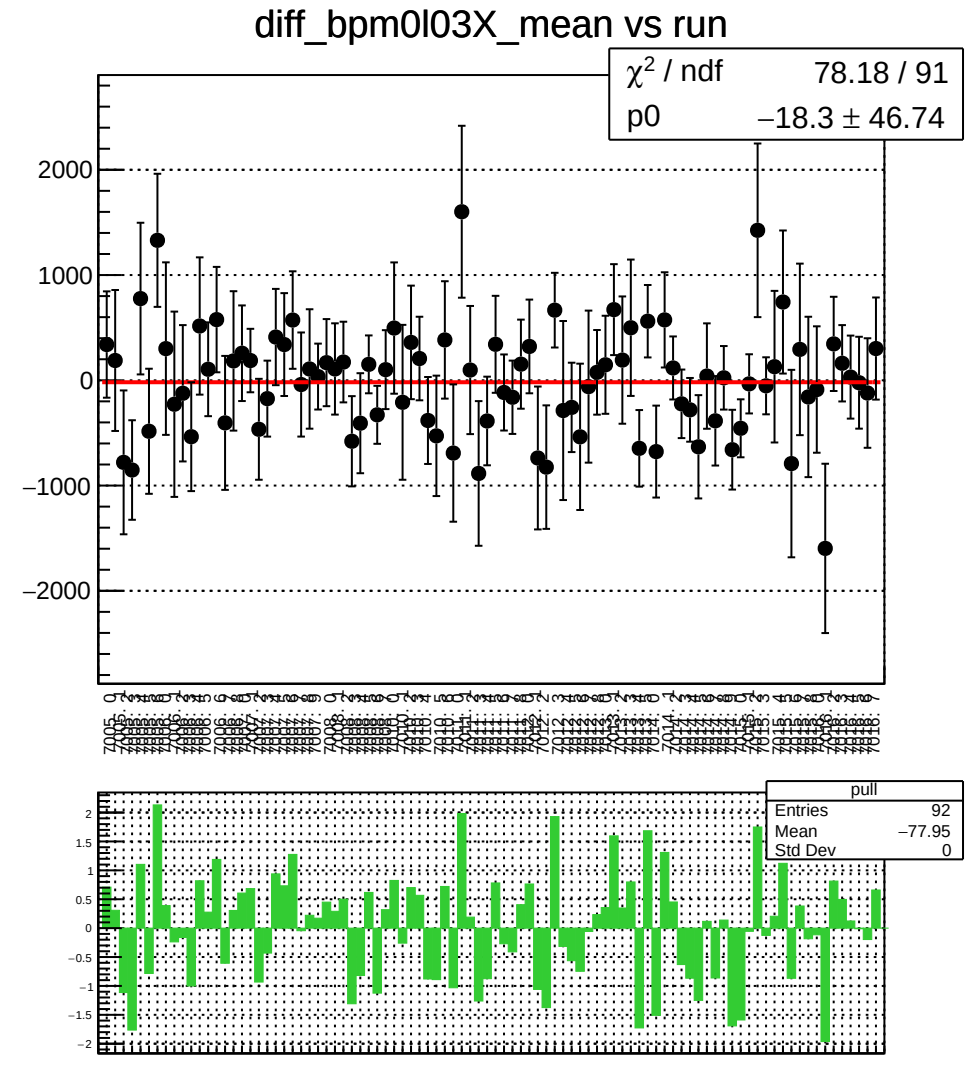

pull1D
Entries 92
Mean −0.006341
Std Dev 1.088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

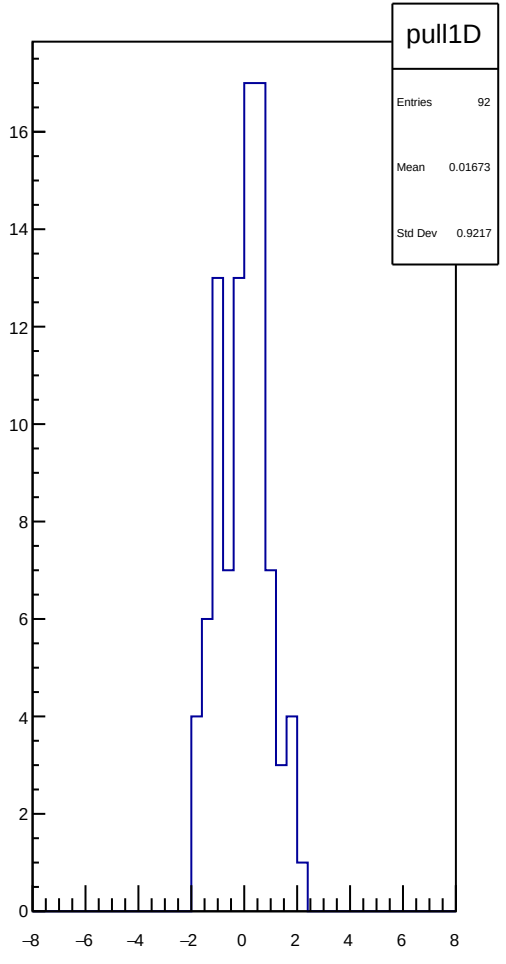

diff_bpm0l02X_rms vs run
χ² / ndf 444.8 / 91
p0 1.103e+04 ± 8.422
11400
11200
11000
10800
10600

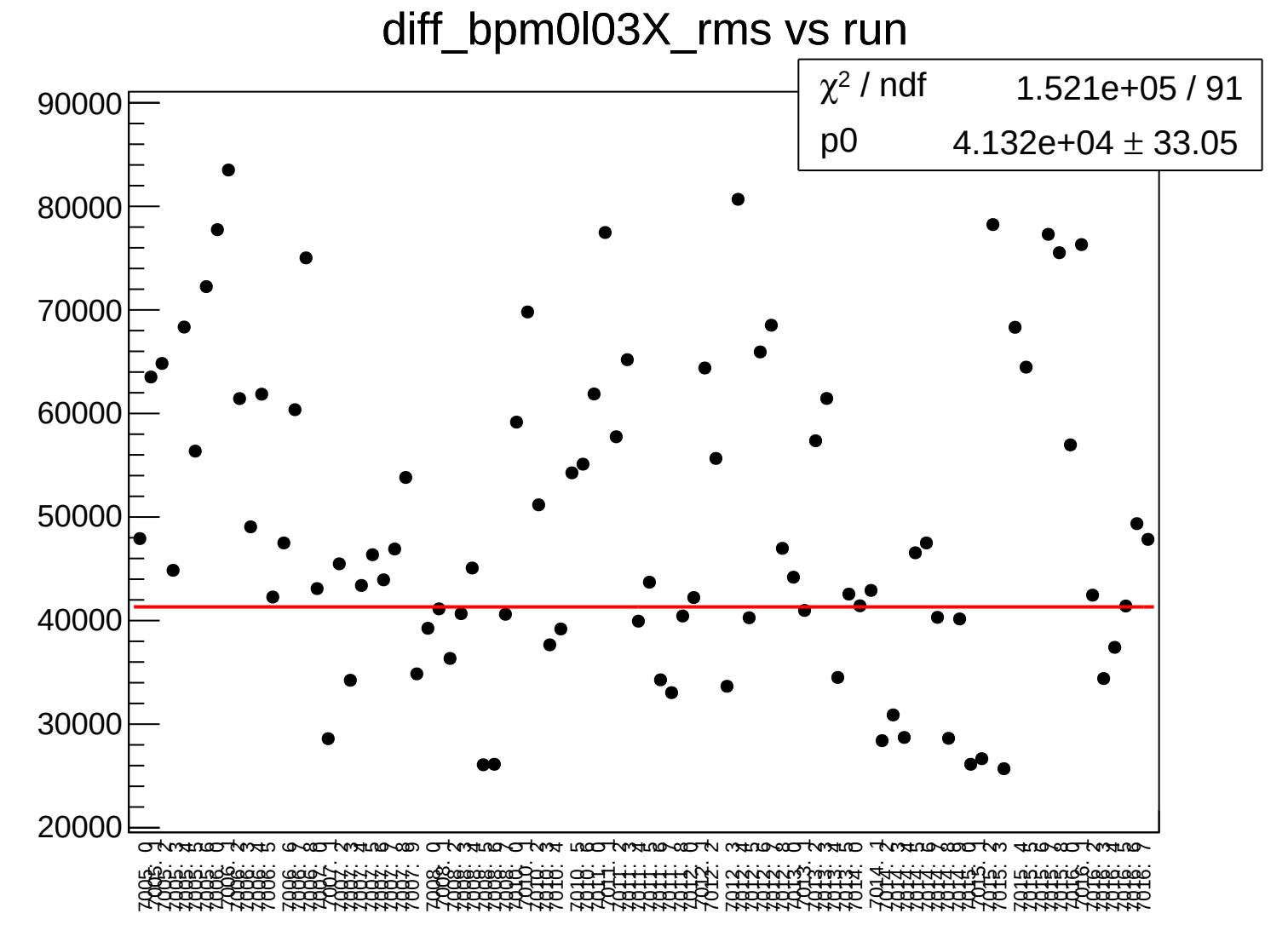

diff_bpm0l02Y_mean vs run
χ² / ndf 83.21 / 91
p0 −8.119 ± 2.376
pull
Entries 92
Mean −56.14
Std Dev 124.5

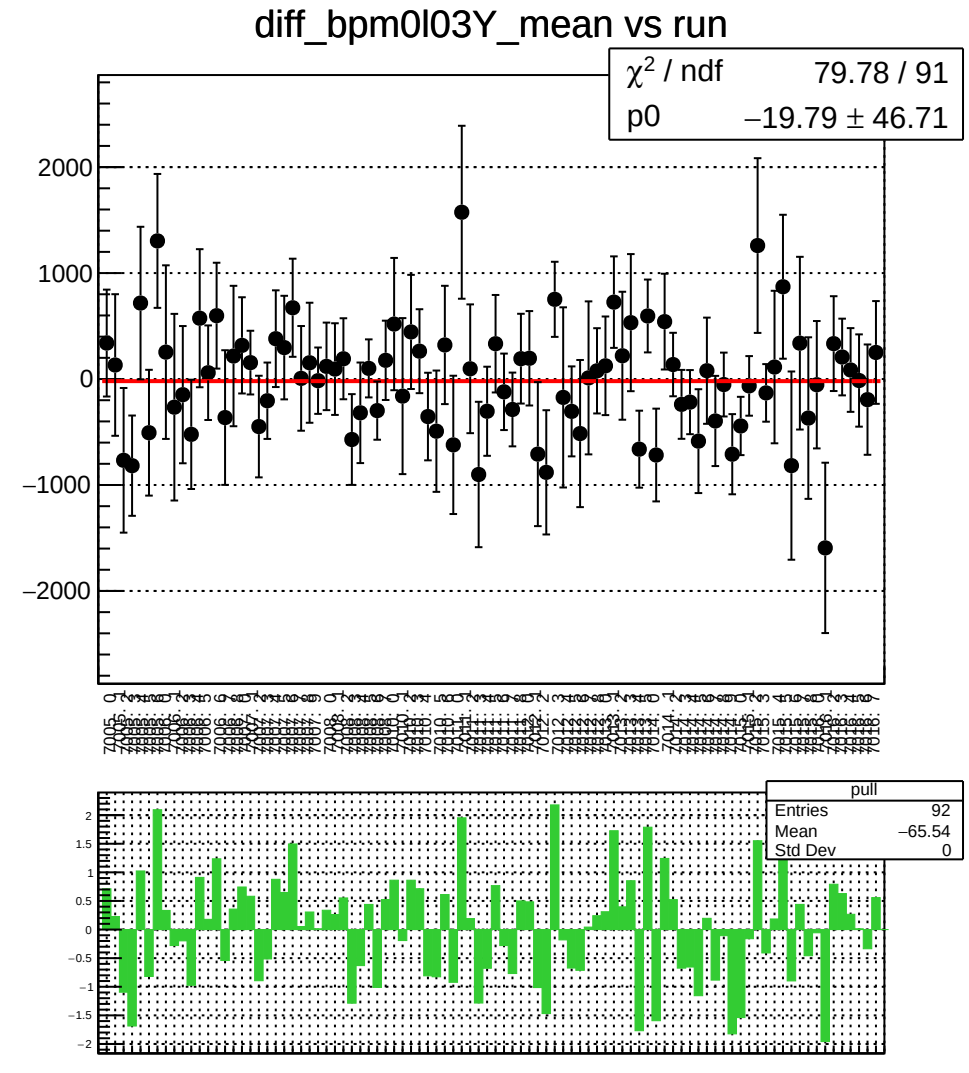

pull1D
Entries 92
Mean 0.0059
Std Dev 0.951

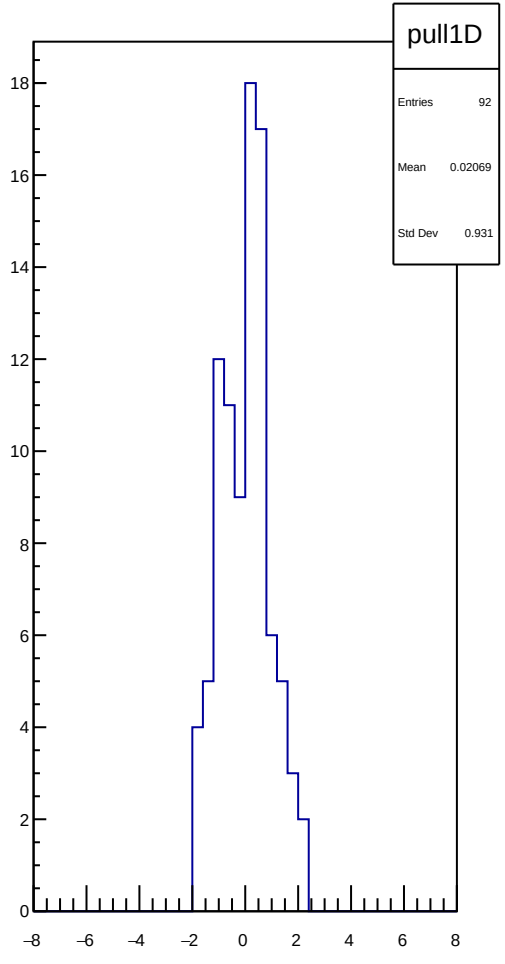

diff_bpm0l02Y_rms vs run
χ² / ndf 9784 / 91
p0 2194 ± 1.68
2700
2600
2500
2400
2300
2200
2100
2000
1900

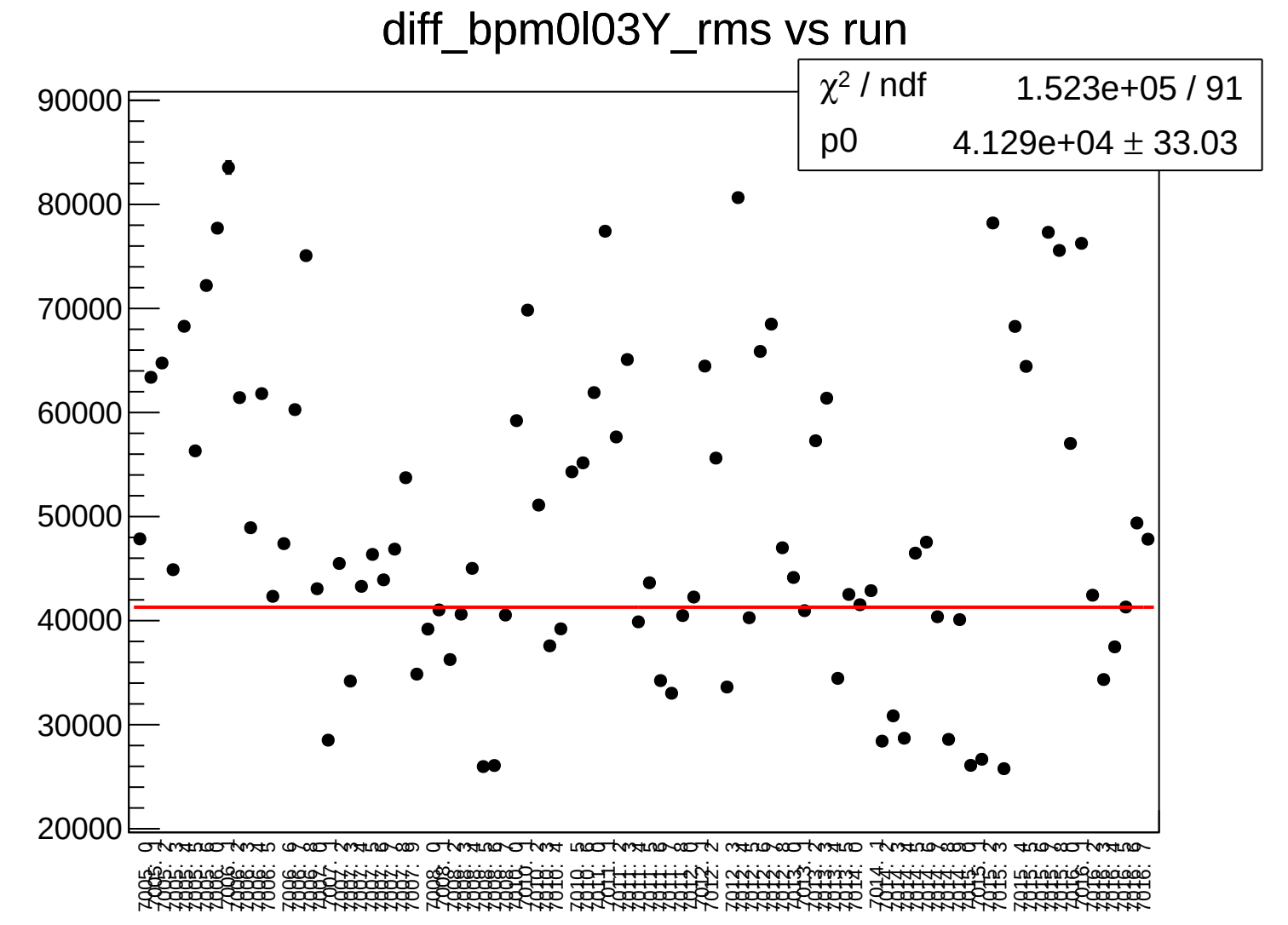

diff_bpm0l03X_mean vs run
$\chi^2$ / ndf 78.18 / 91
p0 −18.3 ± 46.74
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −77.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

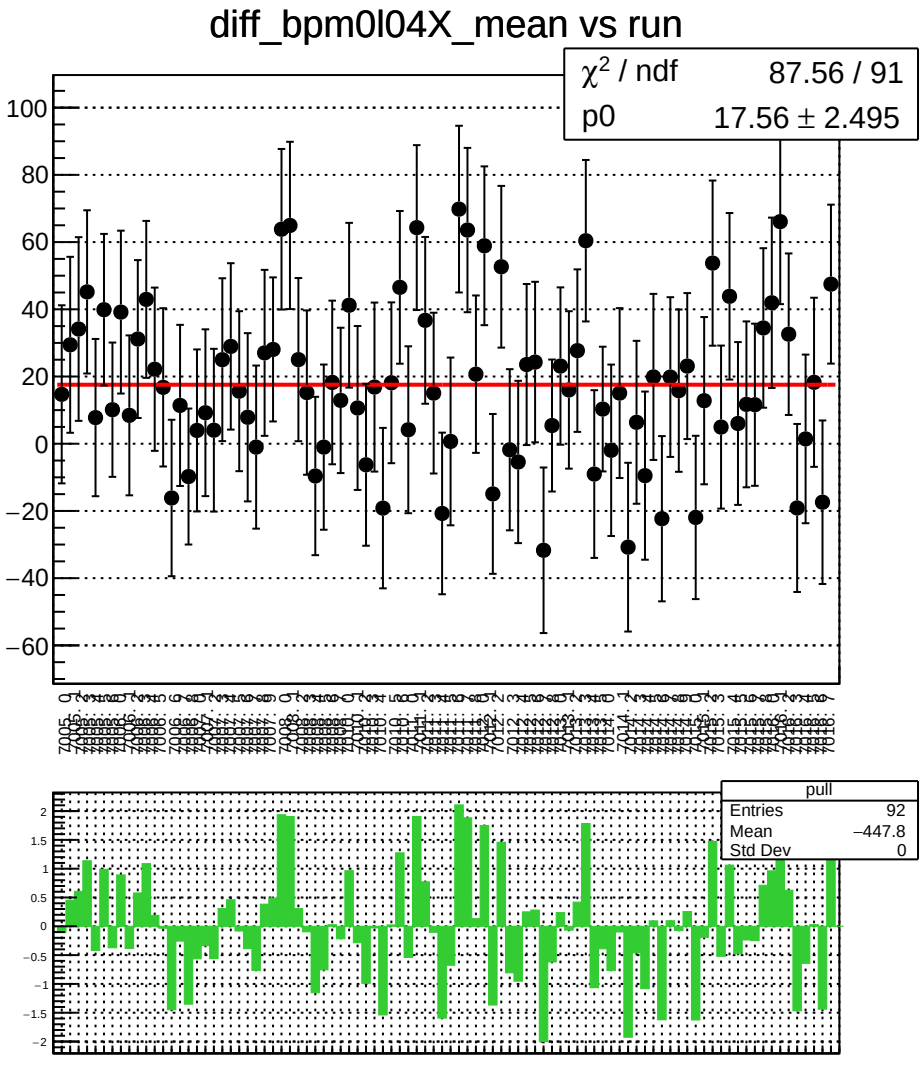

pull1D
Entries 92
Mean 0.01673
Std Dev 0.9217
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

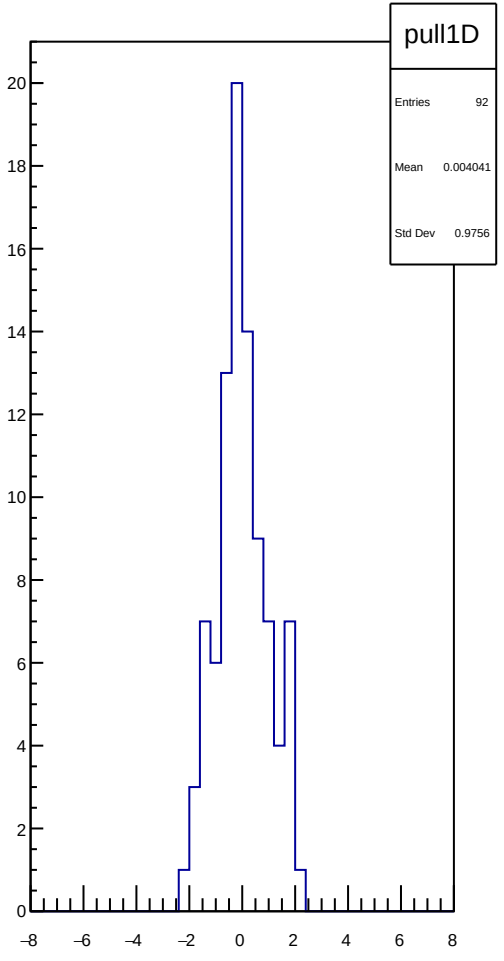

diff_bpm0l03X_rms vs run
χ² / ndf 1.521e+05 / 91
p0 4.132e+04 ± 33.05
90000
80000
70000
60000
50000
40000
30000
20000

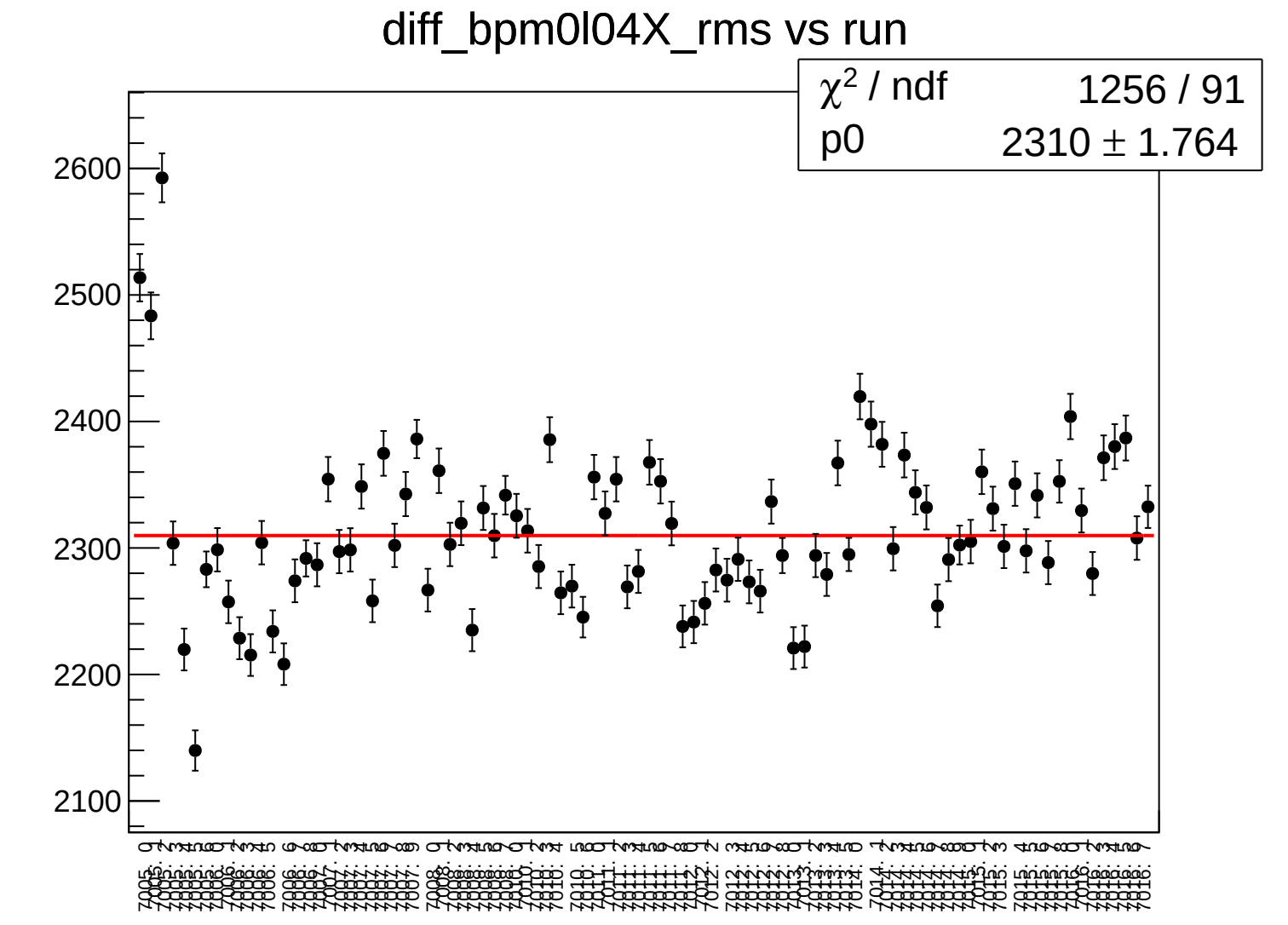

diff_bpm0l03Y_mean vs run
χ² / ndf 79.78 / 91
p0 −19.79 ± 46.71
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −65.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

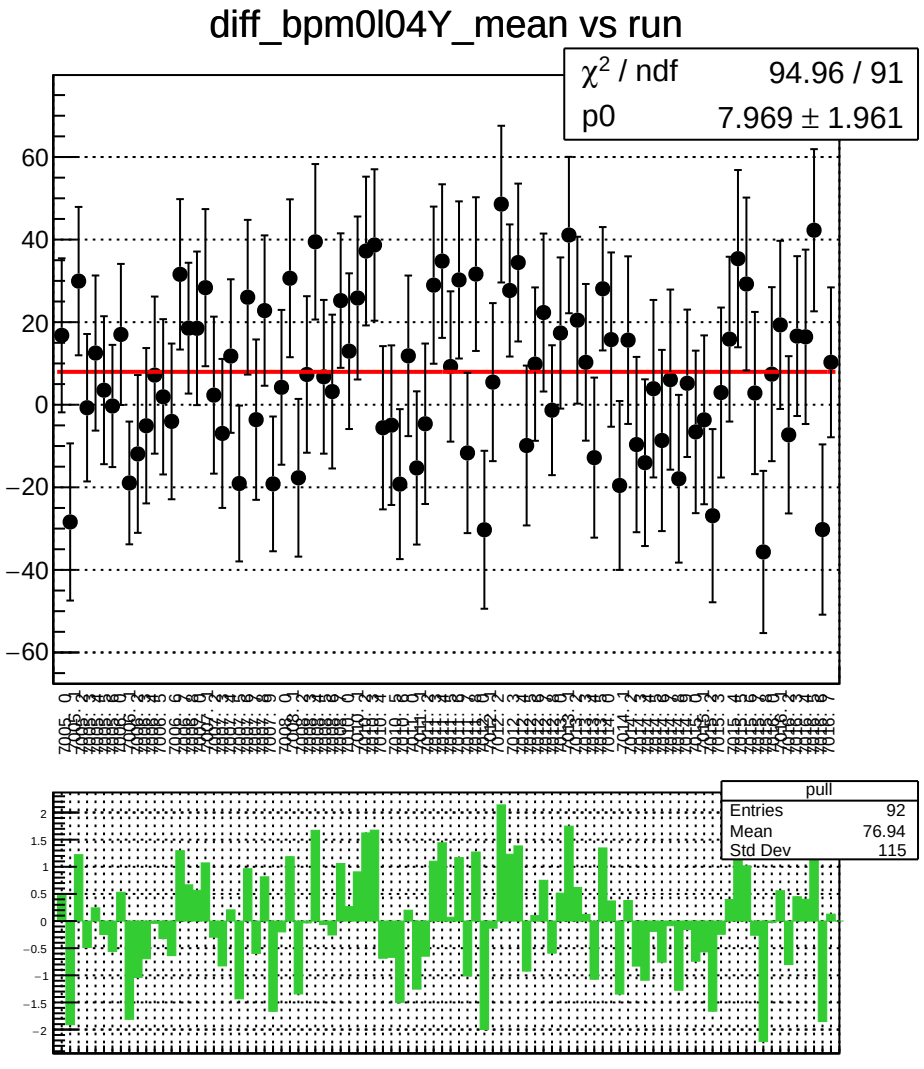

pull1D
Entries 92
Mean 0.02069
Std Dev 0.931
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

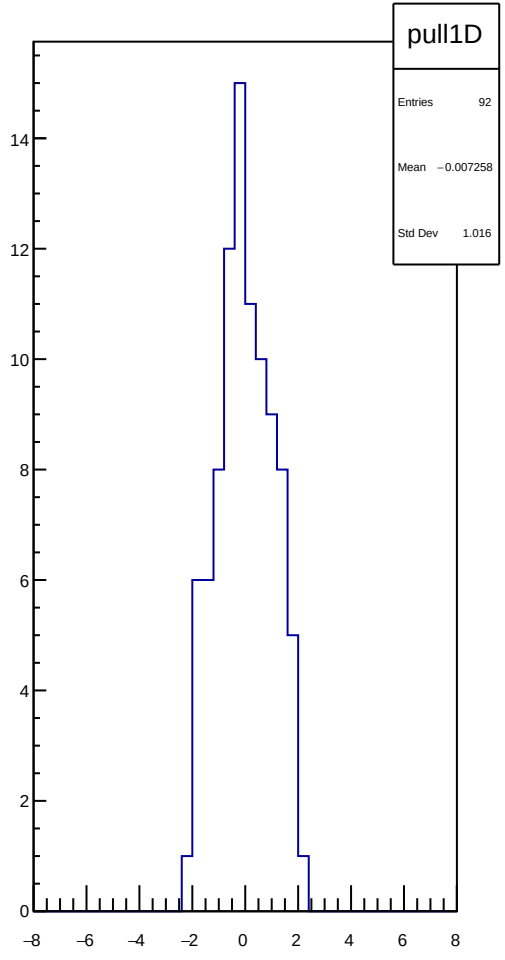

diff_bpm0l03Y_rms vs run
χ² / ndf 1.523e+05 / 91
p0 4.129e+04 ± 33.03
90000
80000
70000
60000
50000
40000
30000
20000

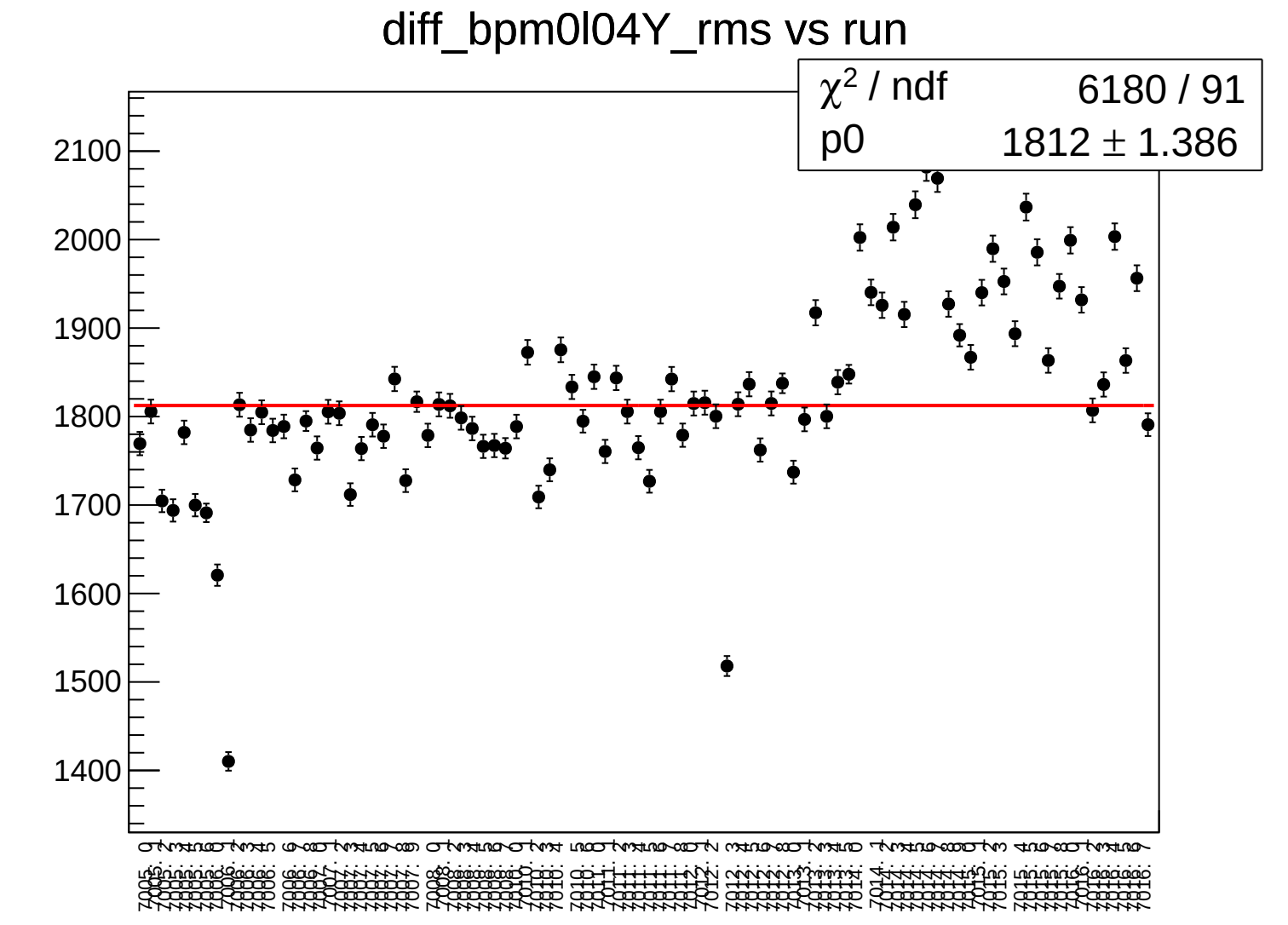

diff_bpm0l04X_mean vs run
$\chi^2$ / ndf 87.56 / 91
p0 17.56 ± 2.495
pull
Entries 92
Mean −447.8
Std Dev 0

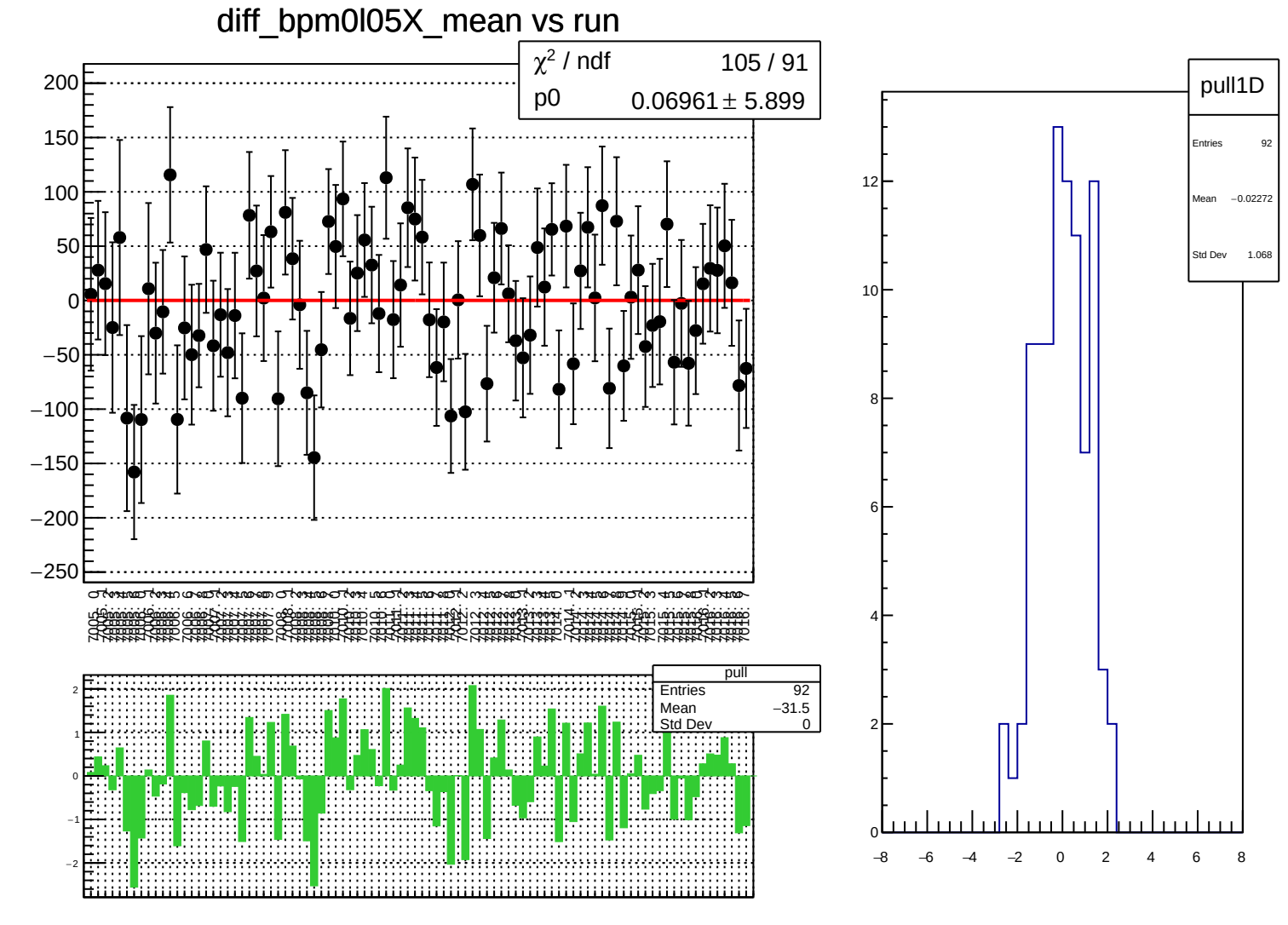

pull1D
Entries 92
Mean 0.004041
Std Dev 0.9756

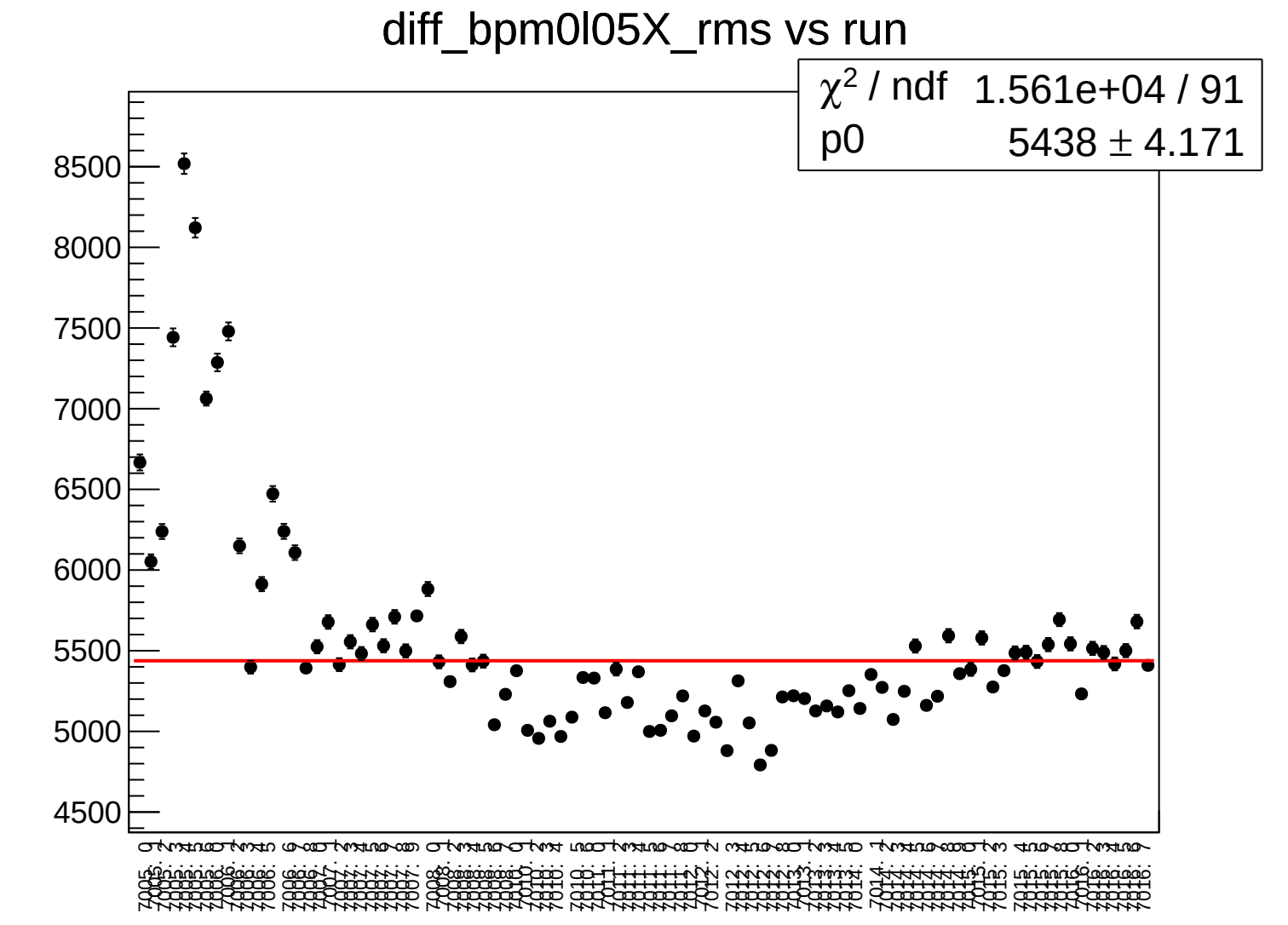

diff_bpm0l04X_rms vs run
χ² / ndf 1256 / 91
p0 2310 ± 1.764
2600
2500
2400
2300
2200
2100

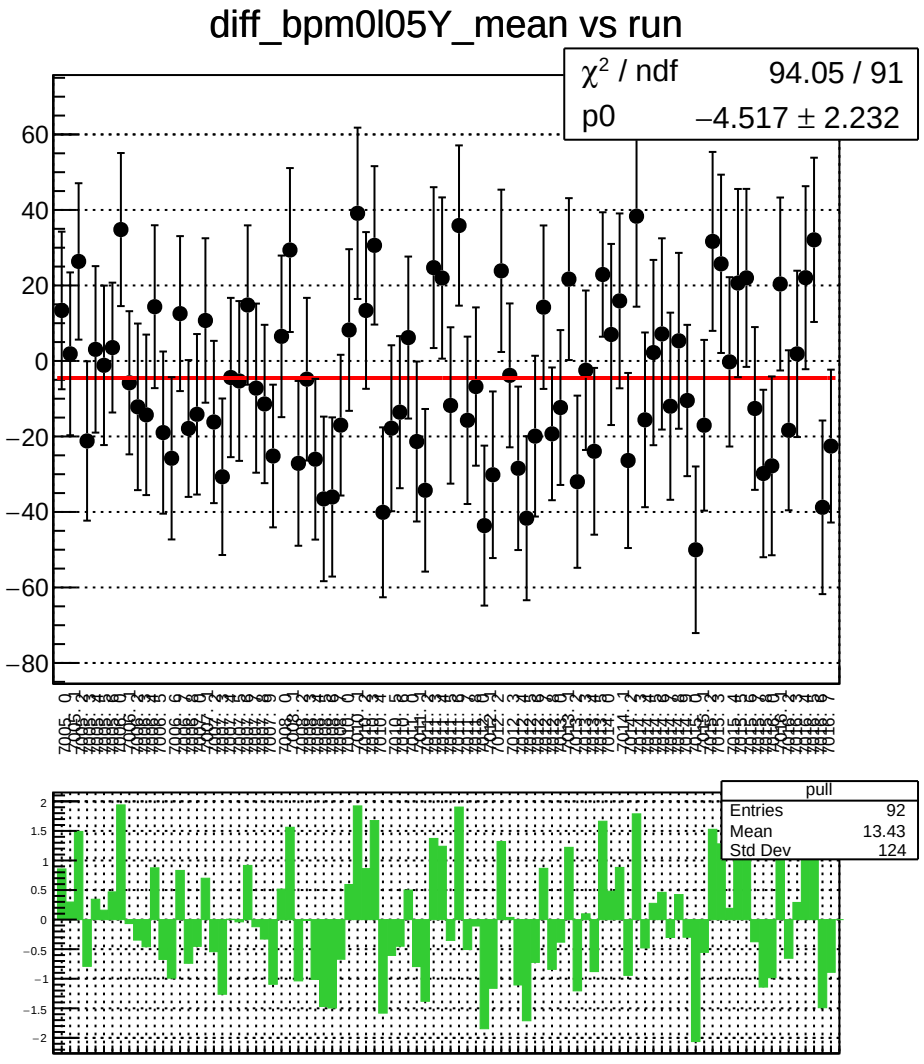

diff_bpm0l04Y_mean vs run
$\chi^2$ / ndf 94.96 / 91
p0 7.969 ± 1.961
pull
Entries 92
Mean 76.94
Std Dev 115

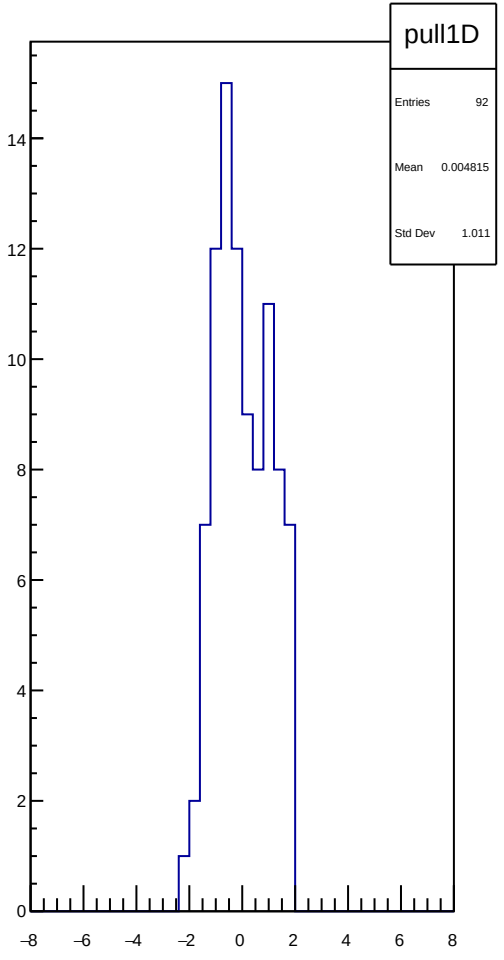

pull1D
Entries 92
Mean −0.007258
Std Dev 1.016

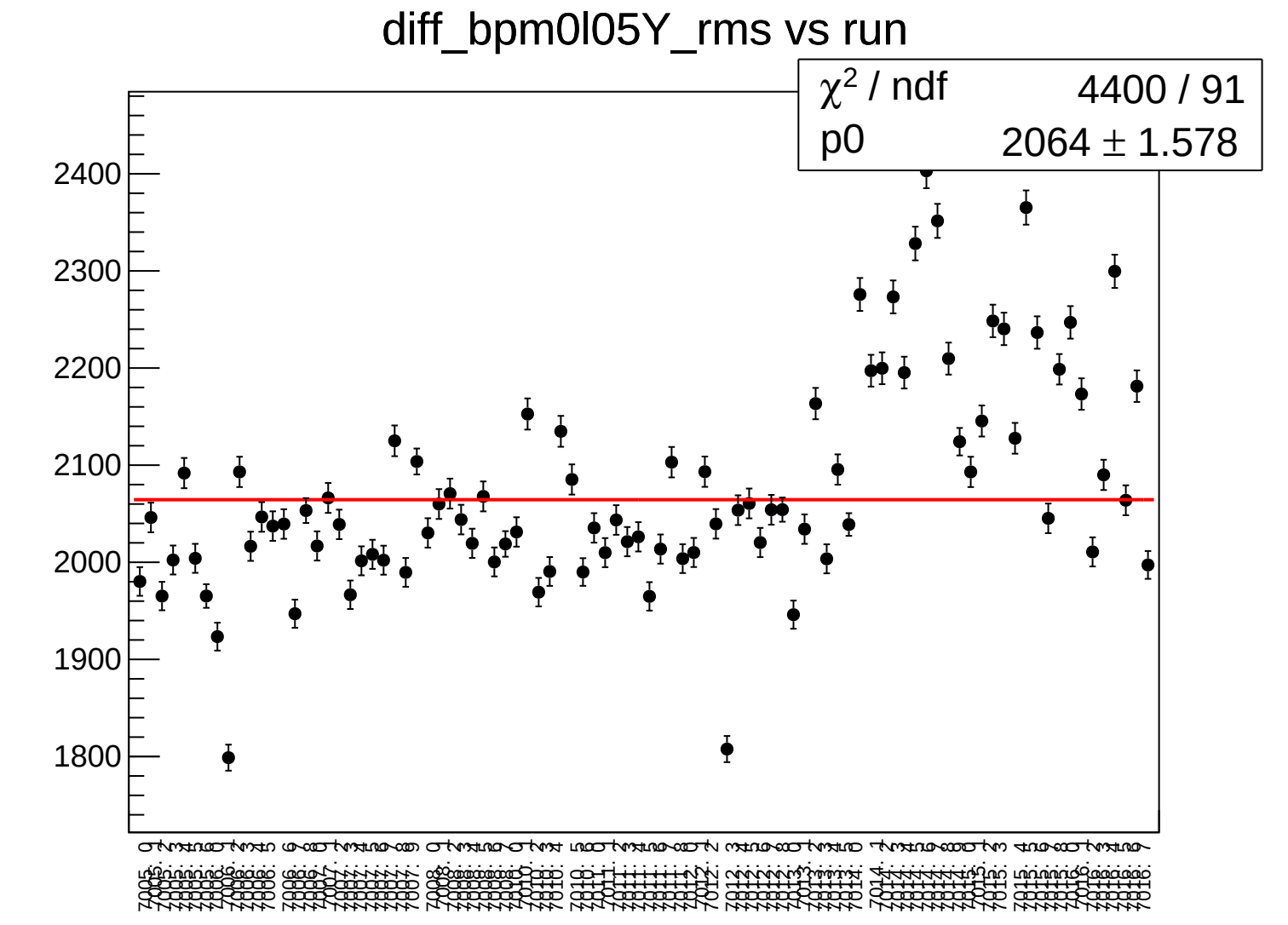

diff_bpm0l04Y_rms vs run
χ² / ndf 6180 / 91
p0 1812 ± 1.386
2100
2000
1900
1800
1700
1600
1500
1400

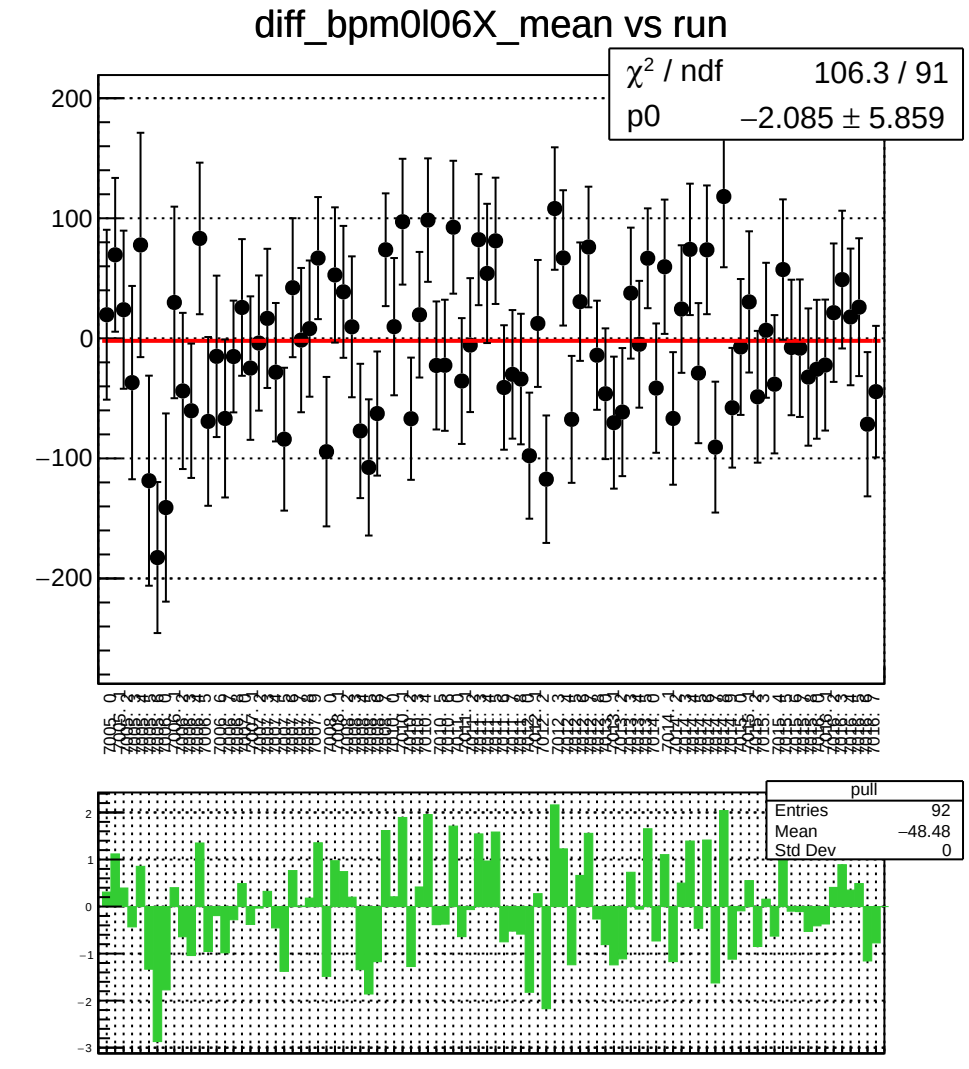

diff_bpm0l05X_mean vs run
χ² / ndf 105 / 91
p0 0.06961 ± 5.899
pull
Entries 92
Mean −31.5
Std Dev 0
pull1D
Entries 92
Mean −0.02272
Std Dev 1.068

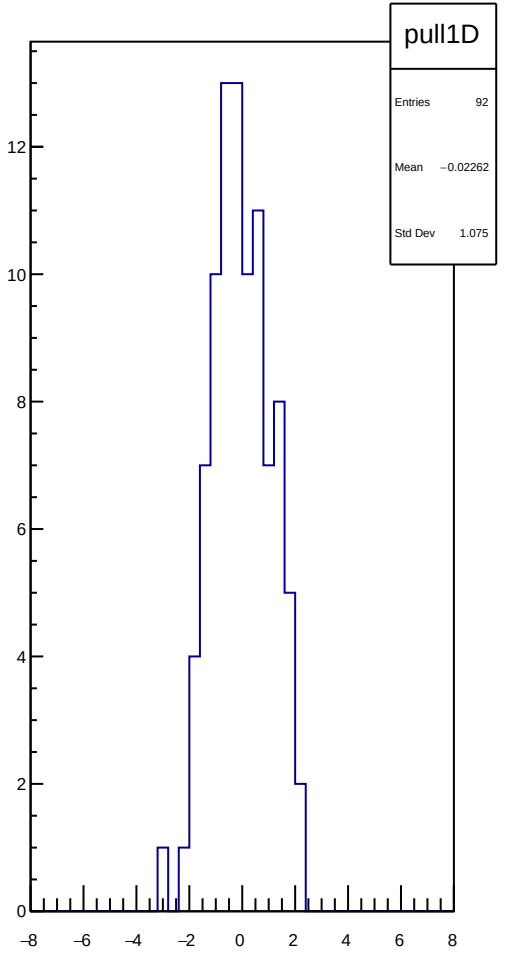

diff_bpm0l05X_rms vs run
χ² / ndf 1.561e+04 / 91
p0 5438 ± 4.171
8500
8000
7500
7000
6500
6000
5500
5000
4500

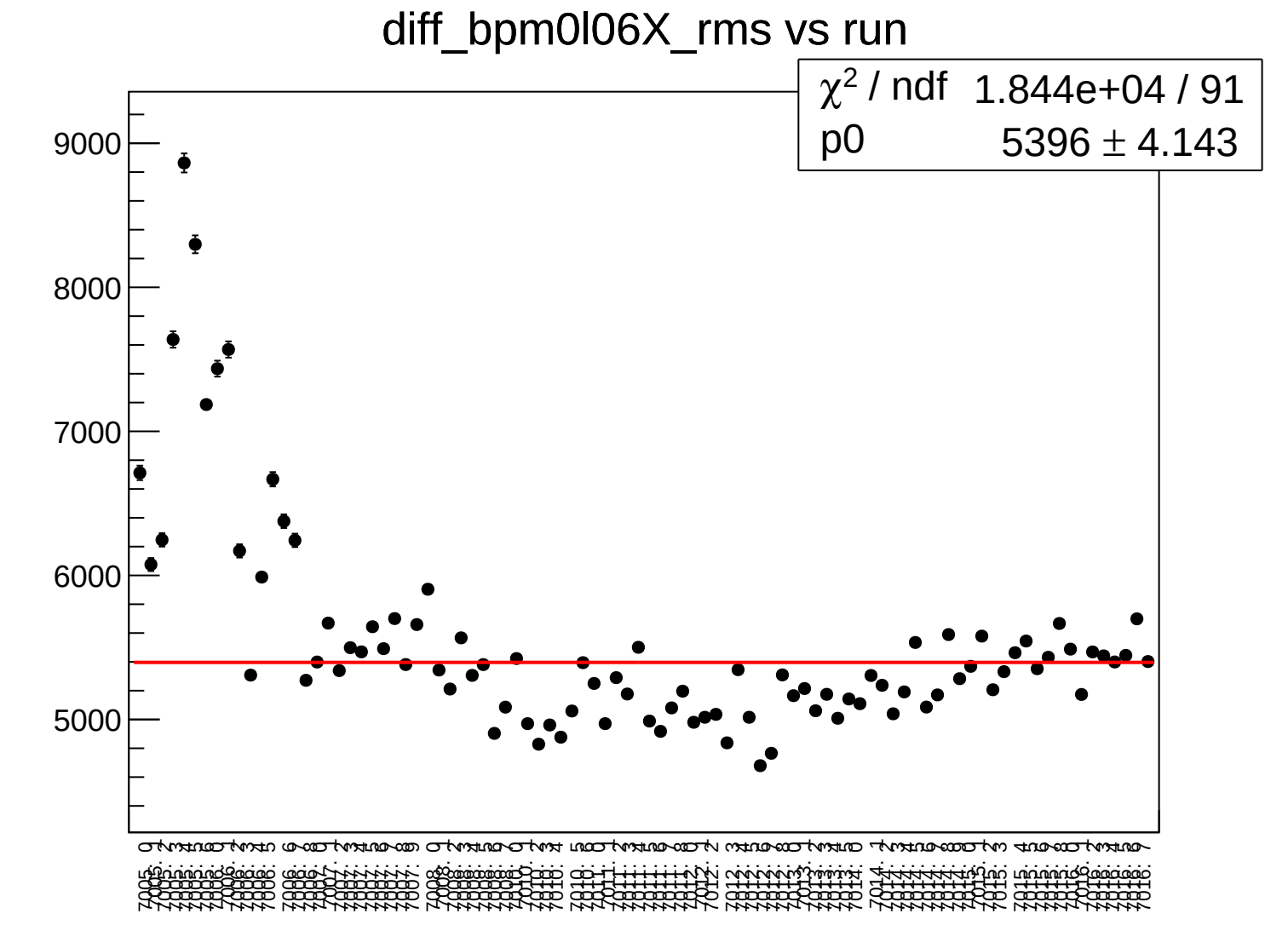

diff_bpm0l05Y_mean vs run
χ² / ndf 94.05 / 91
p0 −4.517 ± 2.232
pull
Entries 92
Mean 13.43
Std Dev 124

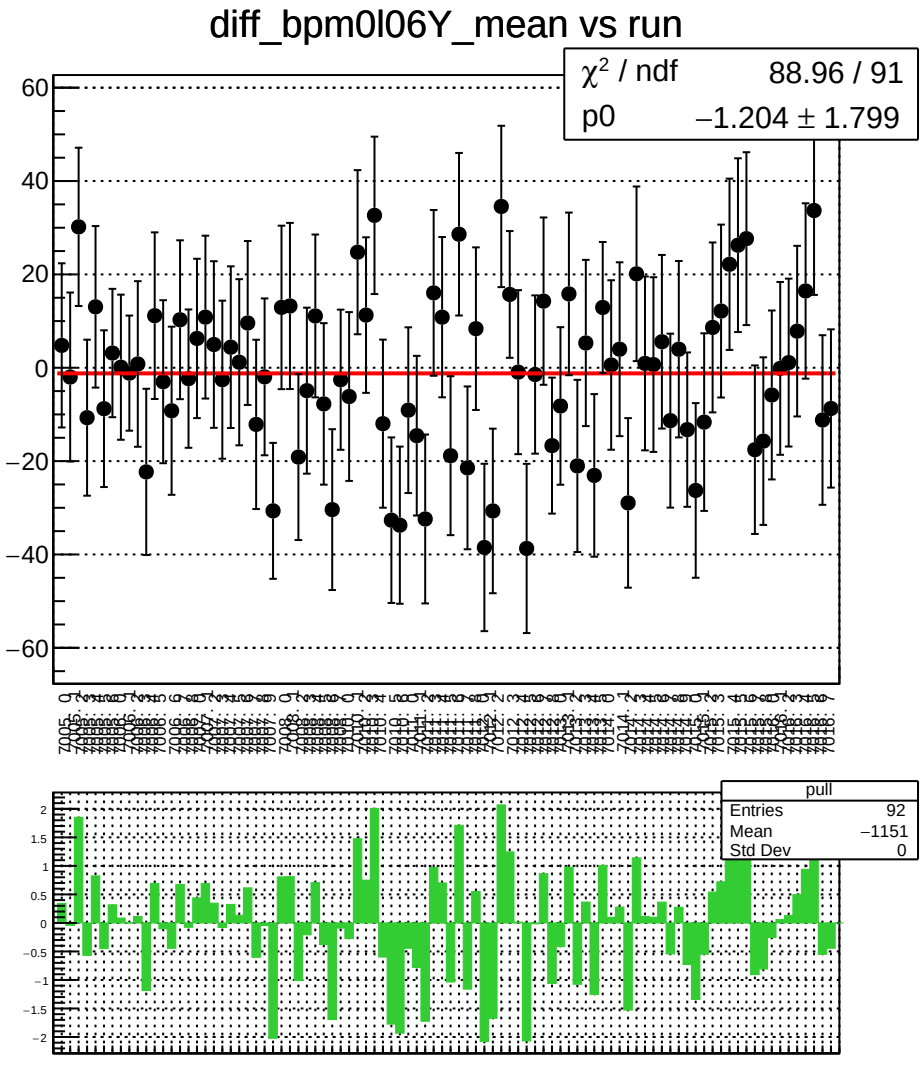

pull1D
Entries 92
Mean 0.004815
Std Dev 1.011

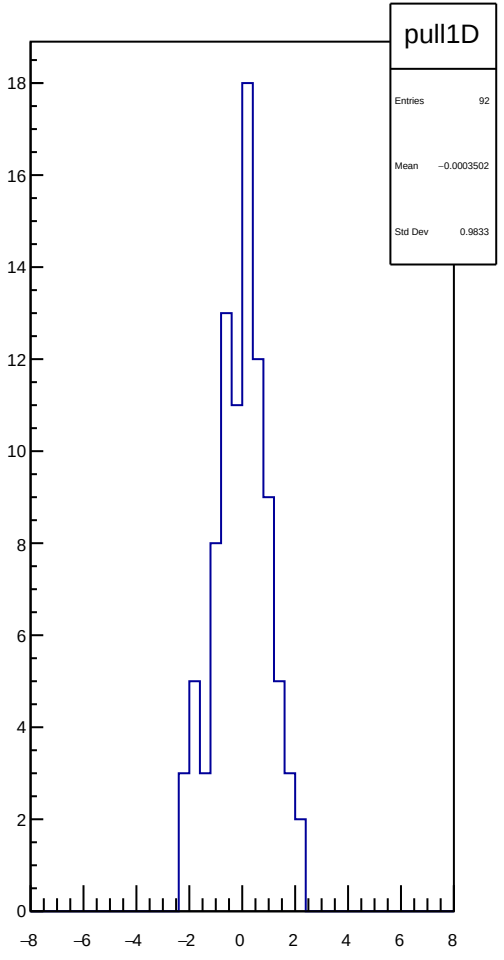

diff_bpm0l05Y_rms vs run
χ² / ndf 4400 / 91
p0 2064 ± 1.578
2400
2300
2200
2100
2000
1900
1800

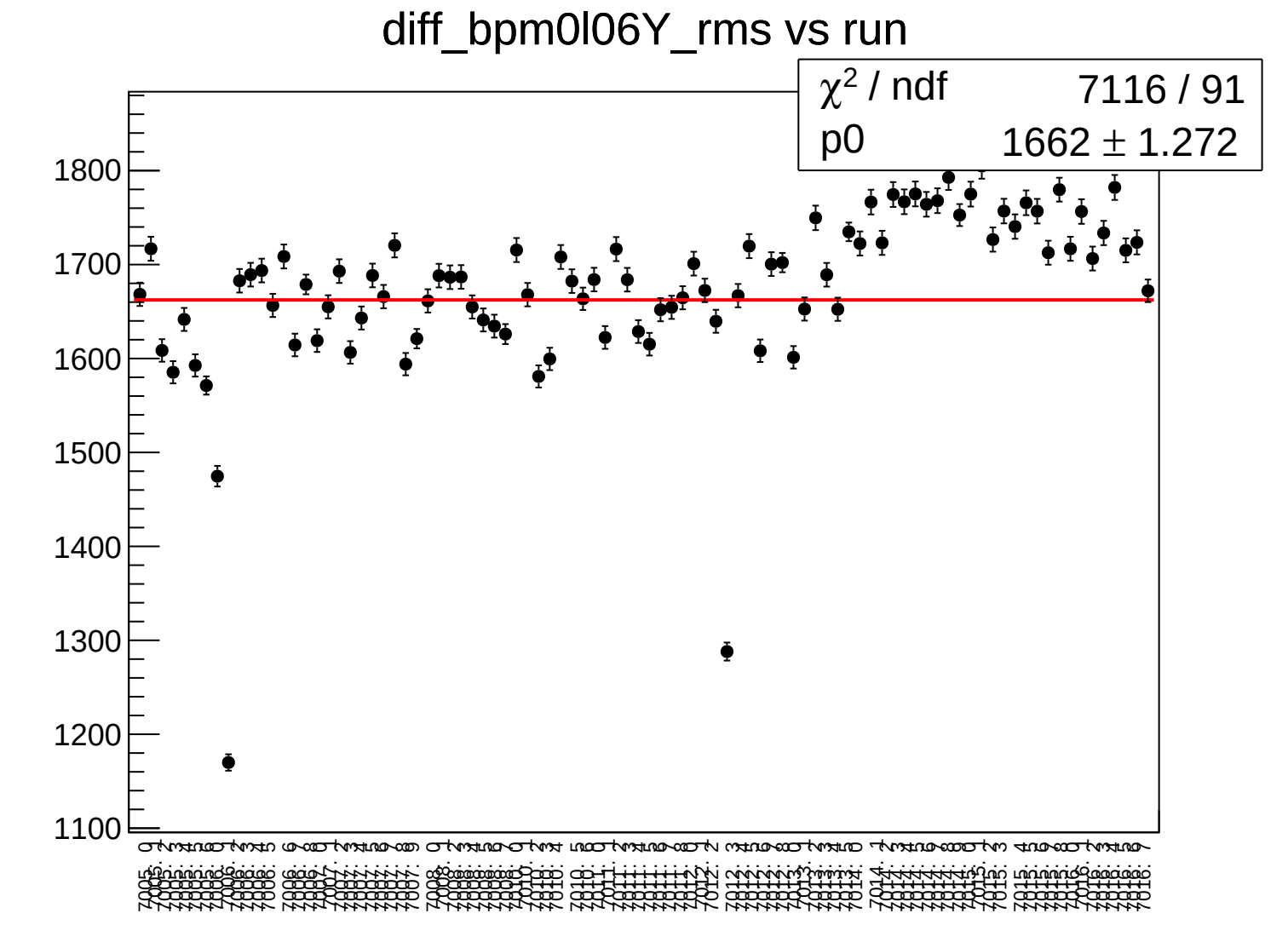

diff_bpm0l06X_mean vs run
χ² / ndf 106.3 / 91
p0 −2.085 ± 5.859
200
100
0
−100
−200
pull
Entries 92
Mean −48.48
Std Dev 0
2
1
0
−1
−2
−3

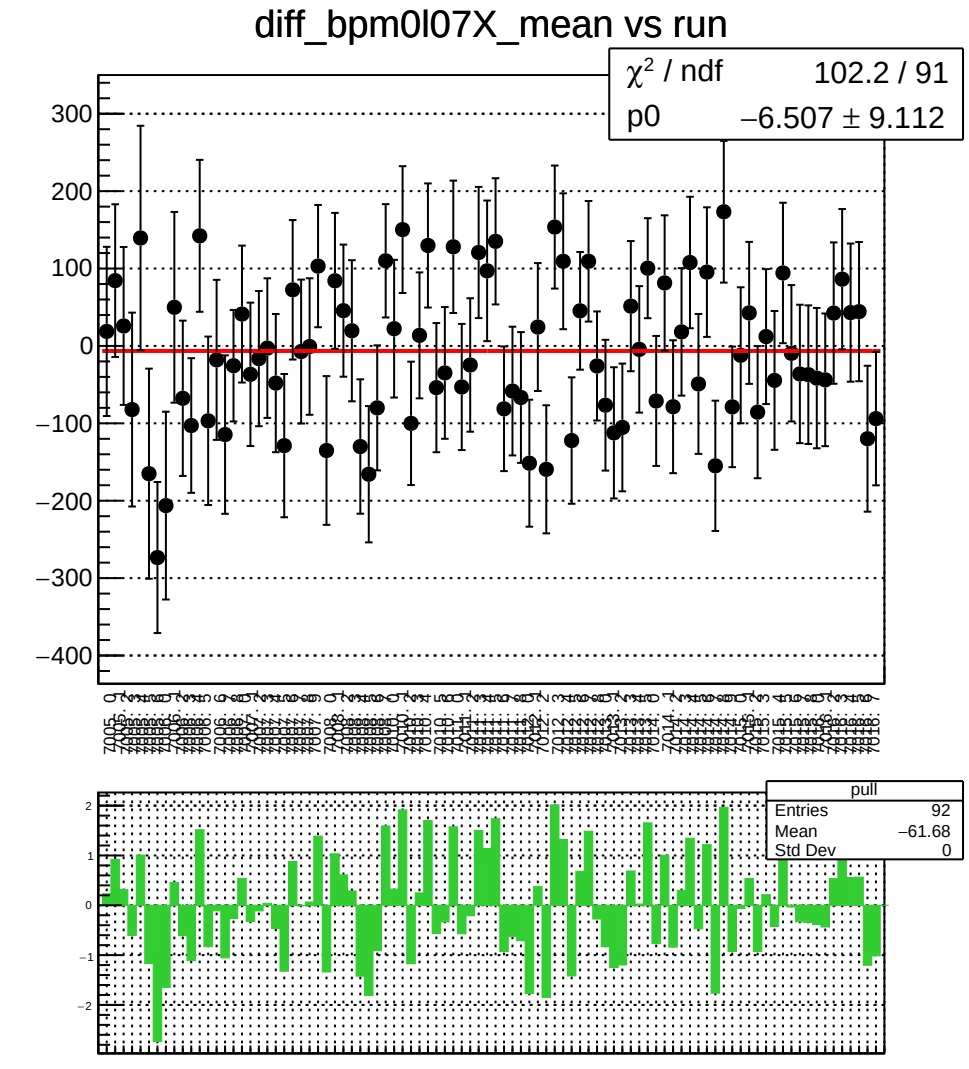

pull1D
Entries 92
Mean −0.02262
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

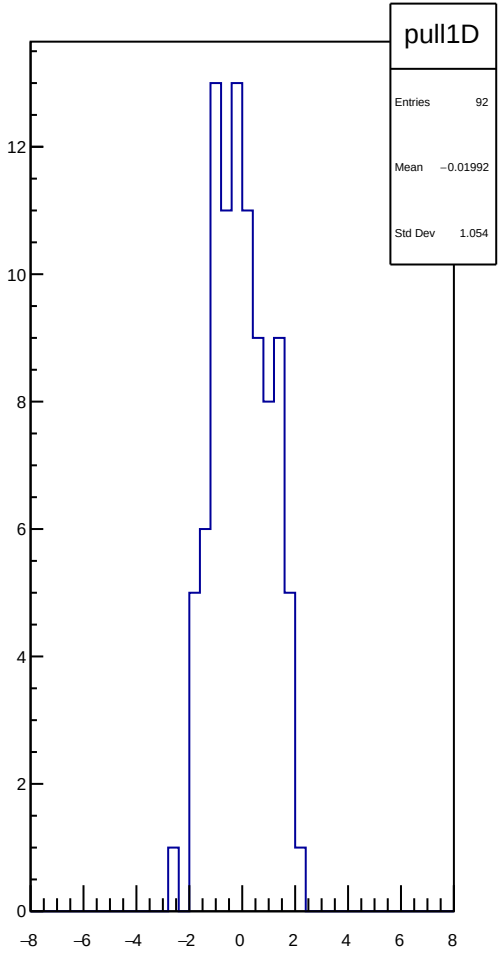

diff_bpm0l06X_rms vs run
χ² / ndf 1.844e+04 / 91
p0 5396 ± 4.143
9000
8000
7000
6000
5000

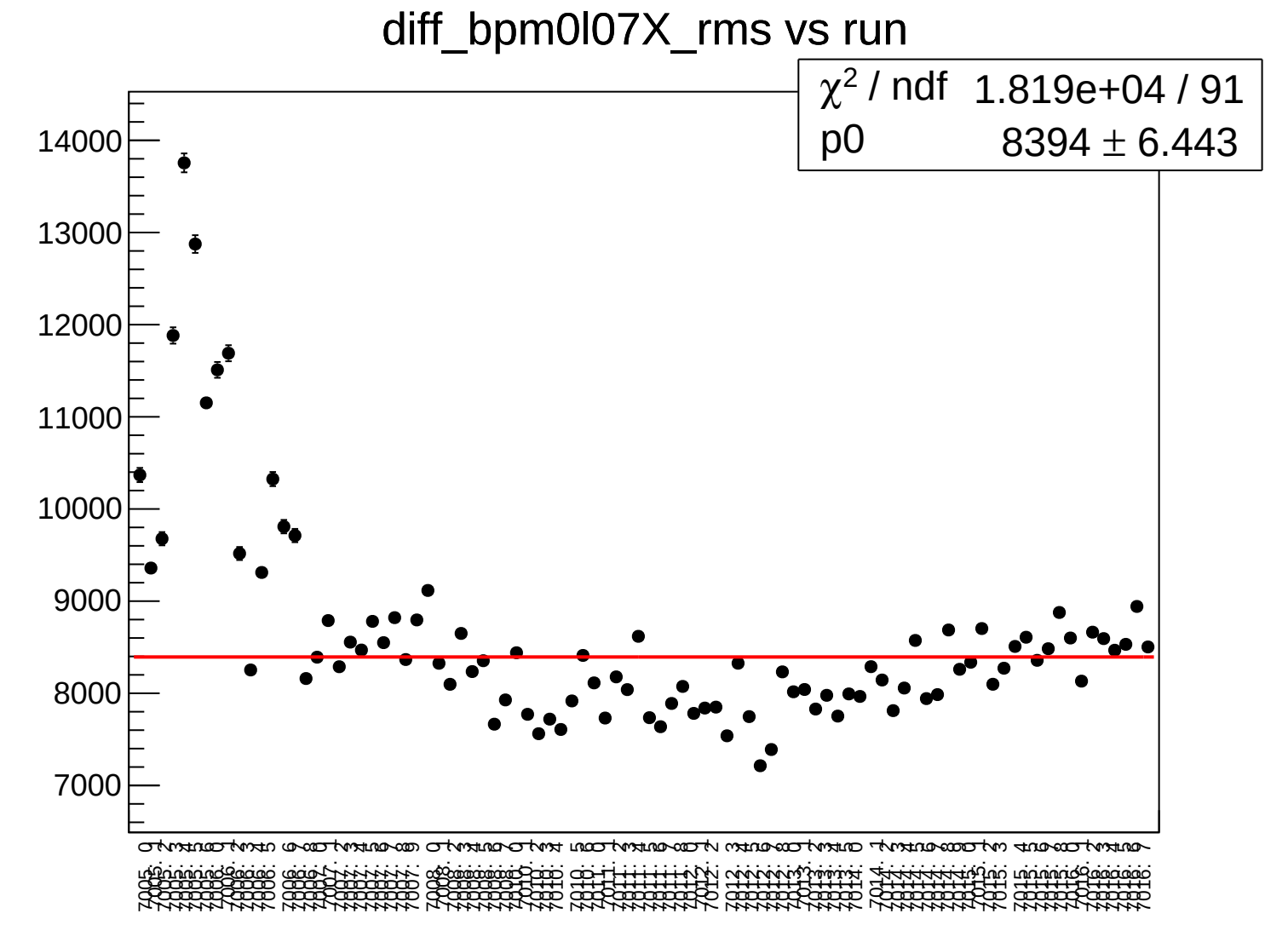

diff_bpm0l06Y_mean vs run
χ² / ndf 88.96 / 91
p0 −1.204 ± 1.799
pull
Entries 92
Mean −1151
Std Dev 0

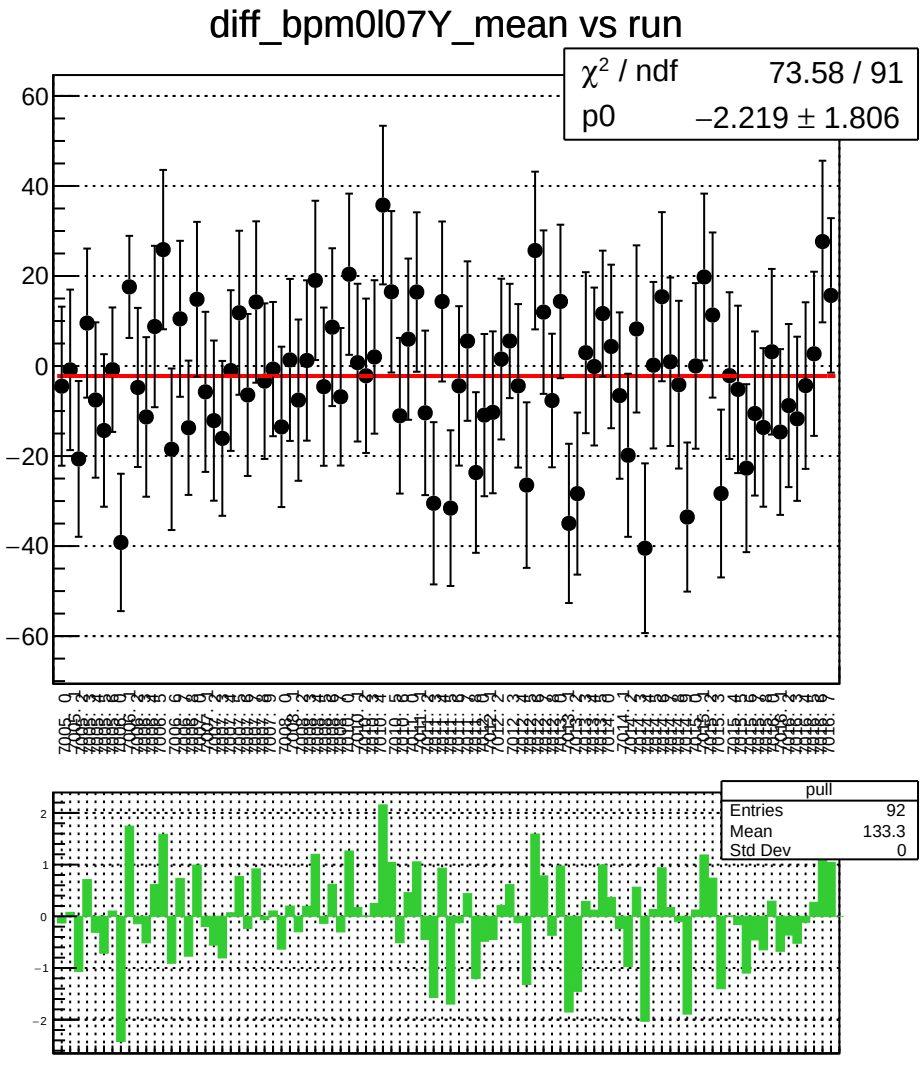

pull1D
Entries 92
Mean −0.0003502
Std Dev 0.9833

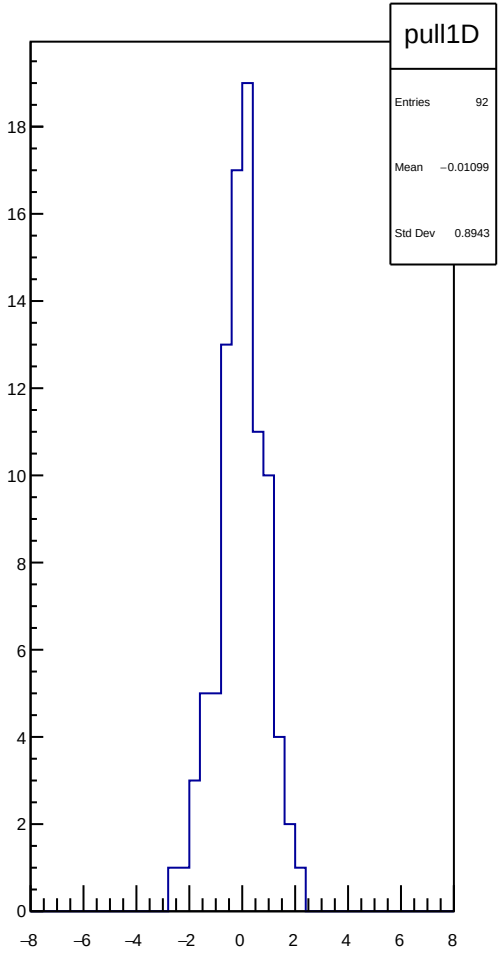

diff_bpm0l06Y_rms vs run
χ² / ndf 7116 / 91
p0 1662 ± 1.272
1800
1700
1600
1500
1400
1300
1200
1100

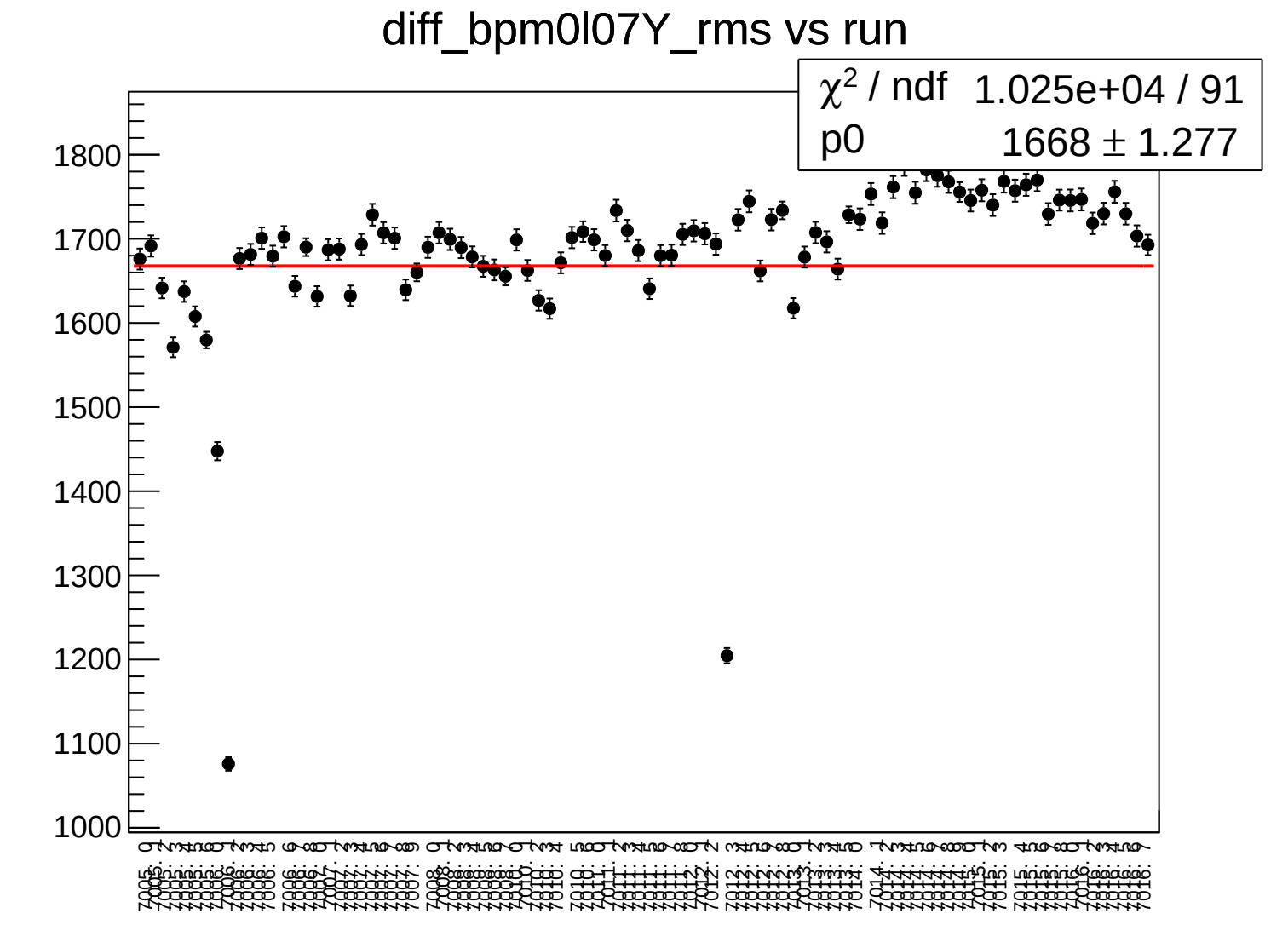

diff_bpm0l07X_mean vs run
χ² / ndf 102.2 / 91
p0 −6.507 ± 9.112
pull
Entries 92
Mean −61.68
Std Dev 0

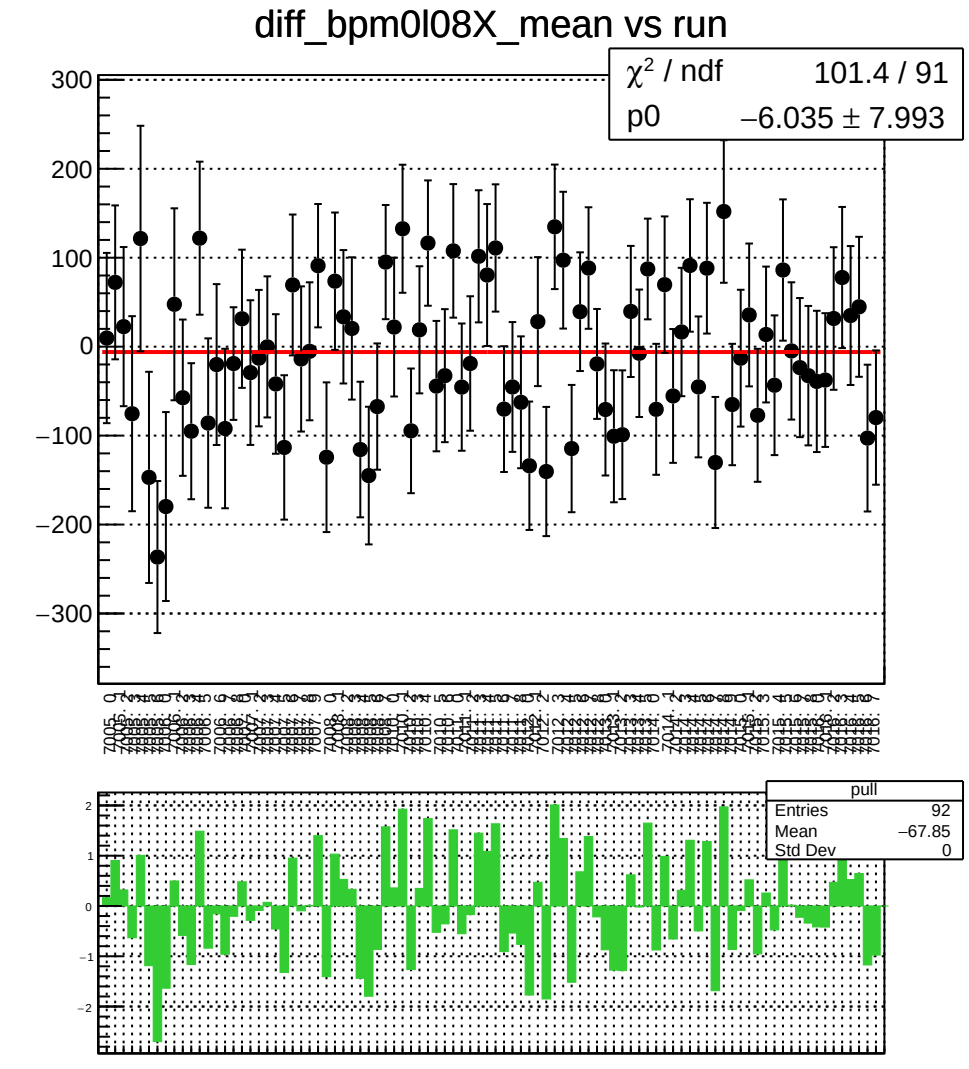

pull1D
Entries 92
Mean −0.01992
Std Dev 1.054

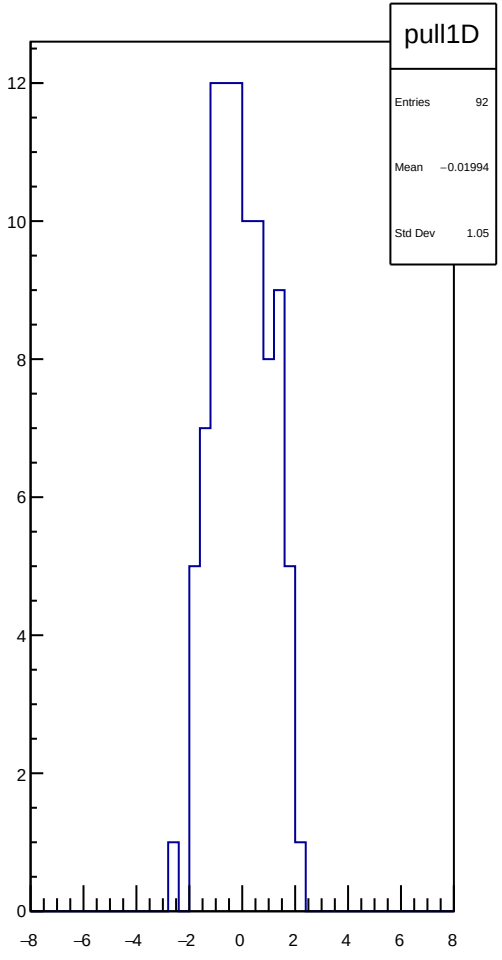

diff_bpm0l07X_rms vs run
χ² / ndf 1.819e+04 / 91
p0 8394 ± 6.443
14000
13000
12000
11000
10000
9000
8000
7000

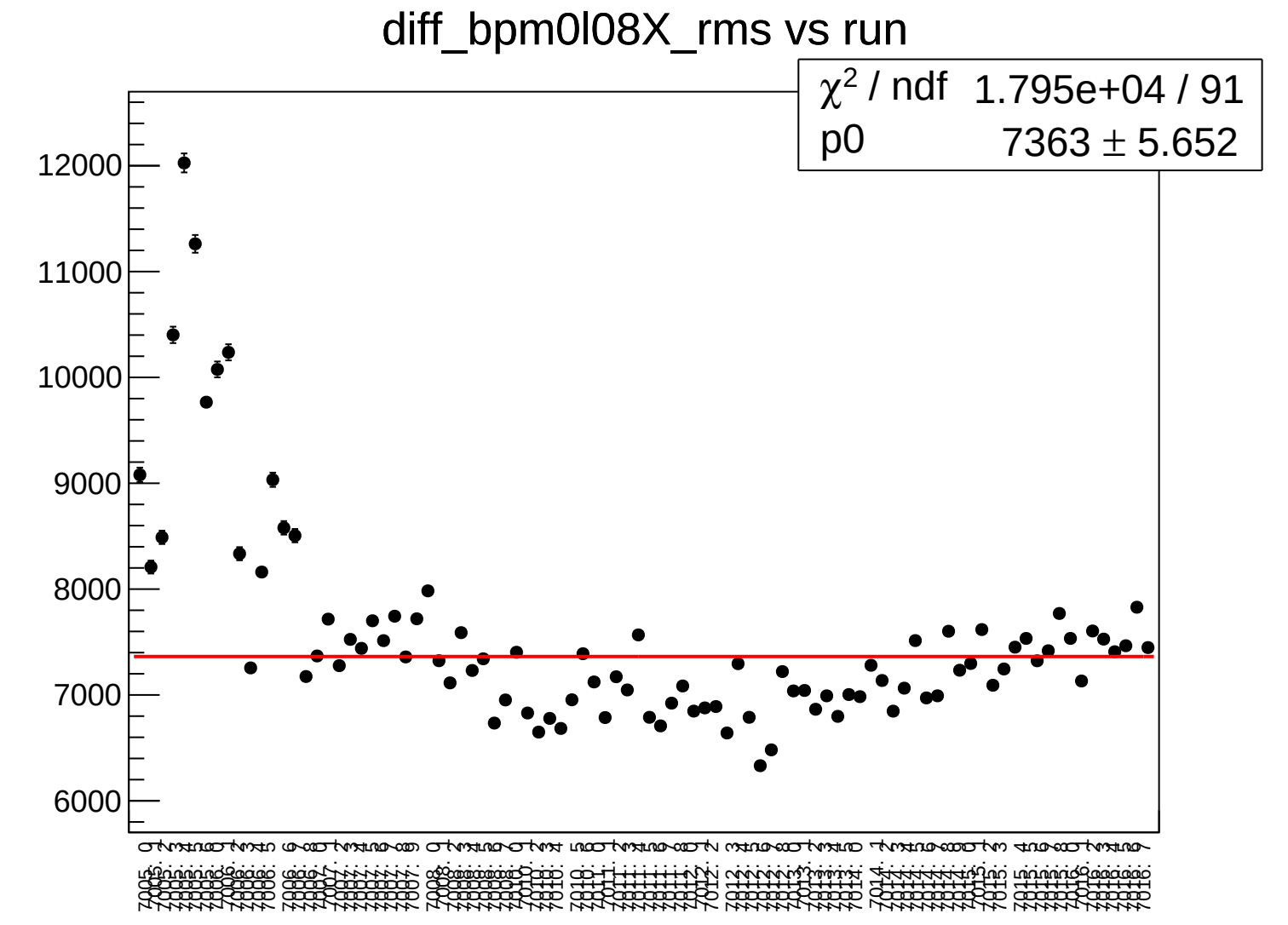

diff_bpm0l07Y_mean vs run
χ² / ndf 73.58 / 91
p0 −2.219 ± 1.806
pull
Entries 92
Mean 133.3
Std Dev 0

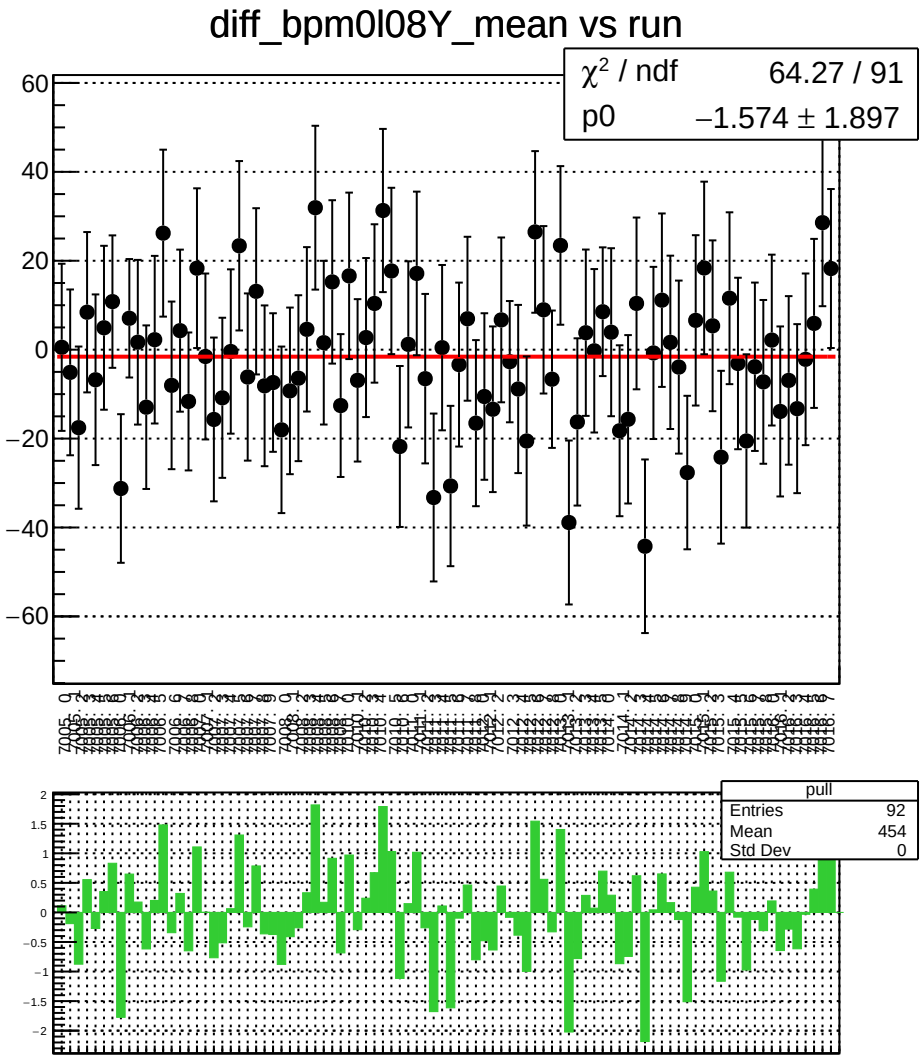

pull1D
Entries 92
Mean −0.01099
Std Dev 0.8943

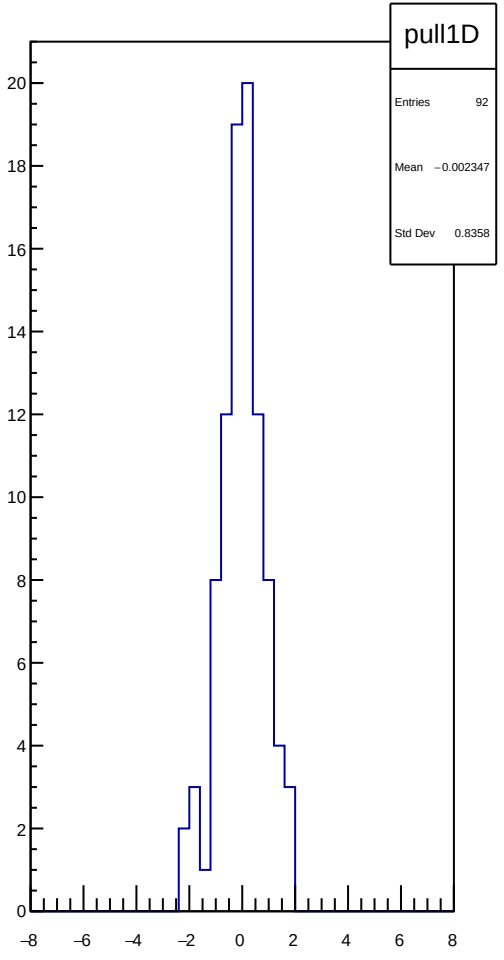

diff_bpm0l07Y_rms vs run
χ² / ndf 1.025e+04 / 91
p0 1668 ± 1.277
1800
1700
1600
1500
1400
1300
1200
1100
1000

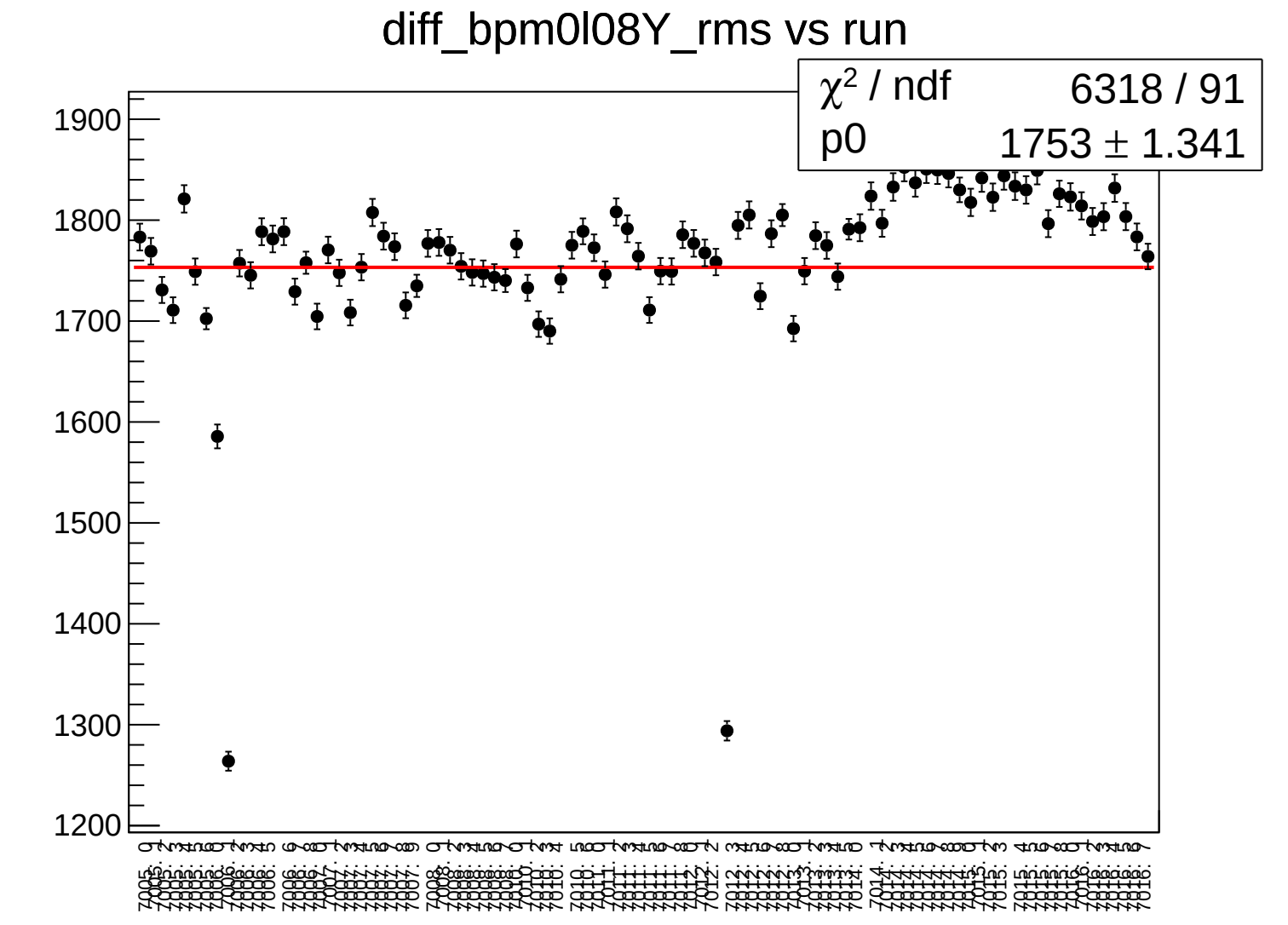

diff_bpm0l08X_mean vs run
χ² / ndf 101.4 / 91
p0 −6.035 ± 7.993
pull
Entries 92
Mean −67.85
Std Dev 0

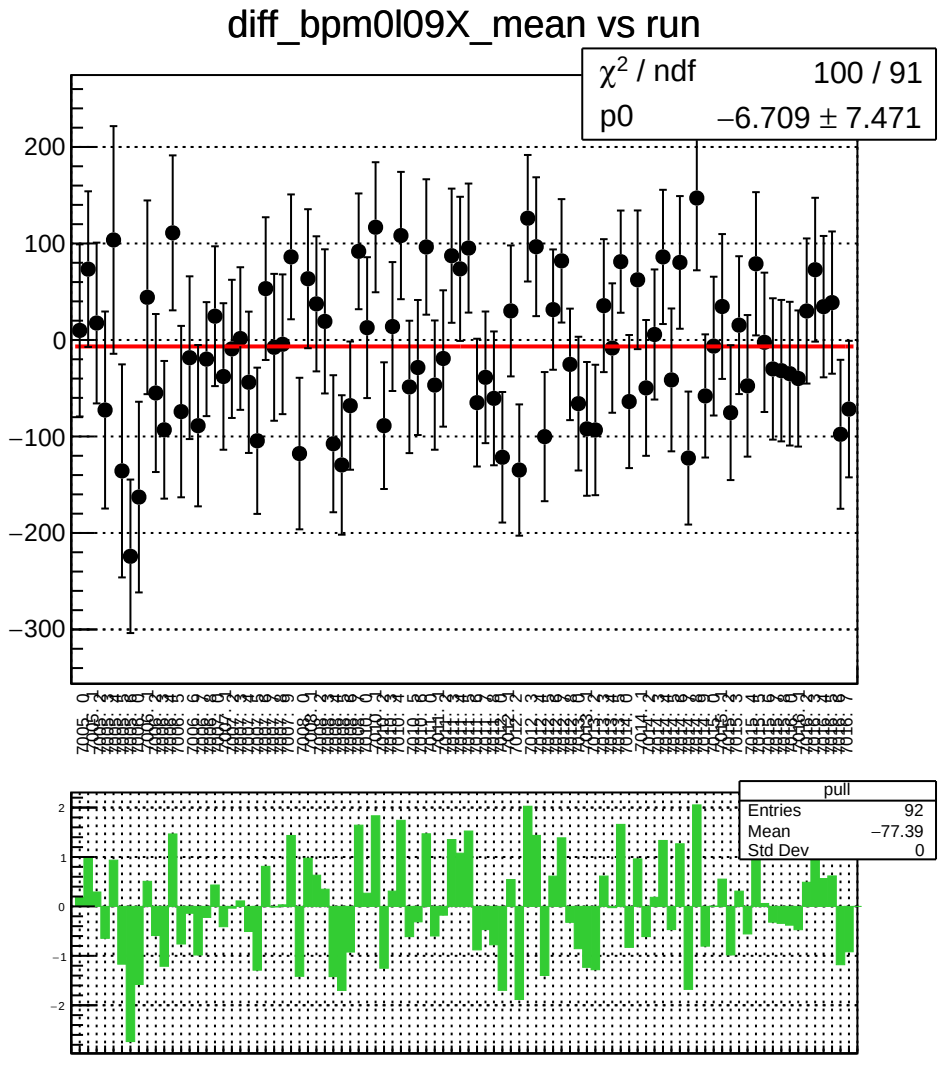

pull1D
Entries 92
Mean −0.01994
Std Dev 1.05

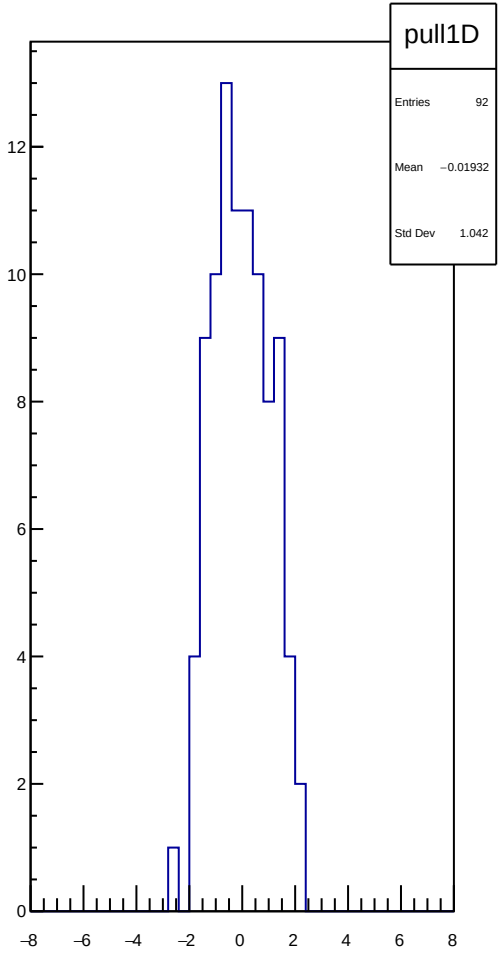

diff_bpm0l08X_rms vs run
$\chi^2$ / ndf 1.795e+04 / 91
p0 7363 ± 5.652
12000
11000
10000
9000
8000
7000
6000

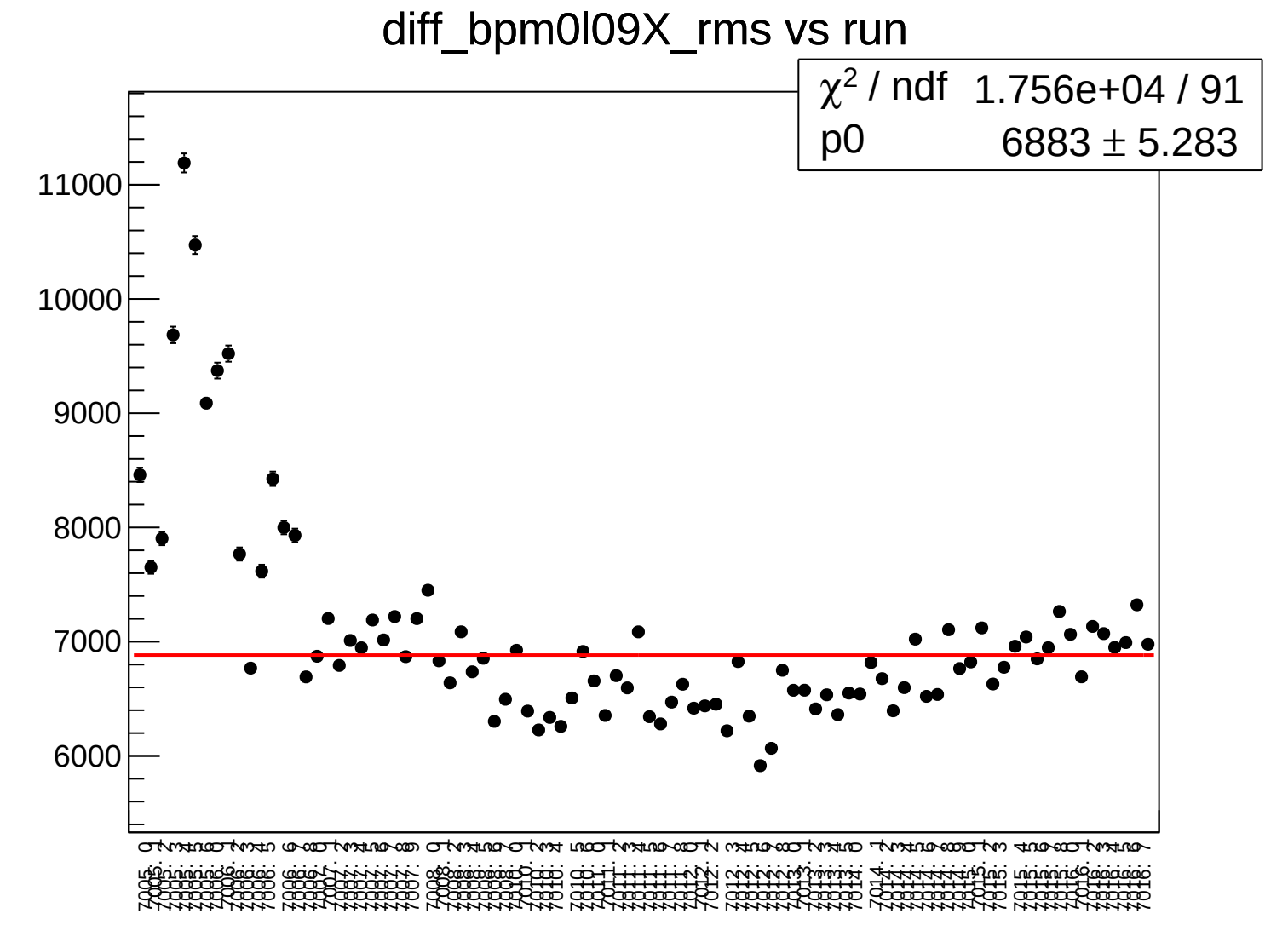

diff_bpm0l08Y_mean vs run
χ² / ndf 64.27 / 91
p0 −1.574 ± 1.897
pull
Entries 92
Mean 454
Std Dev 0

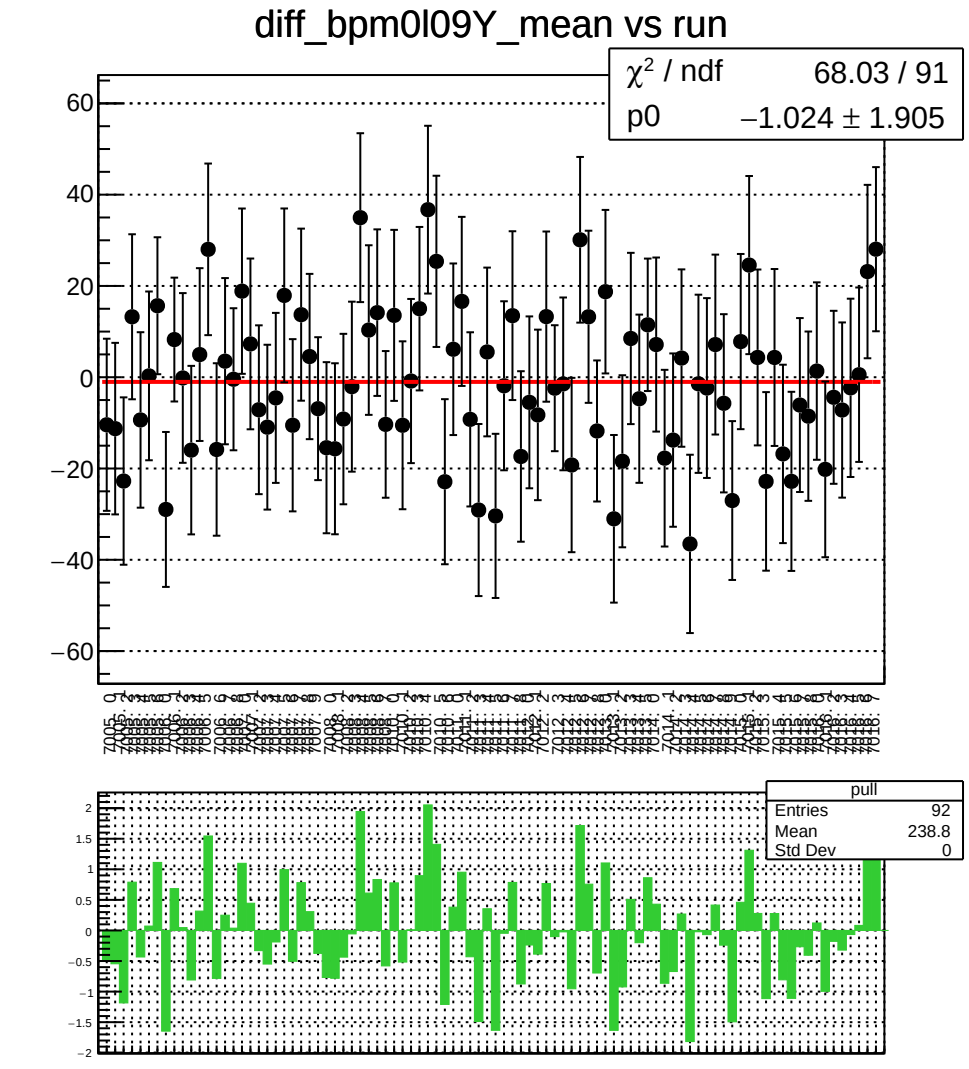

pull1D
Entries 92
Mean −0.002347
Std Dev 0.8358

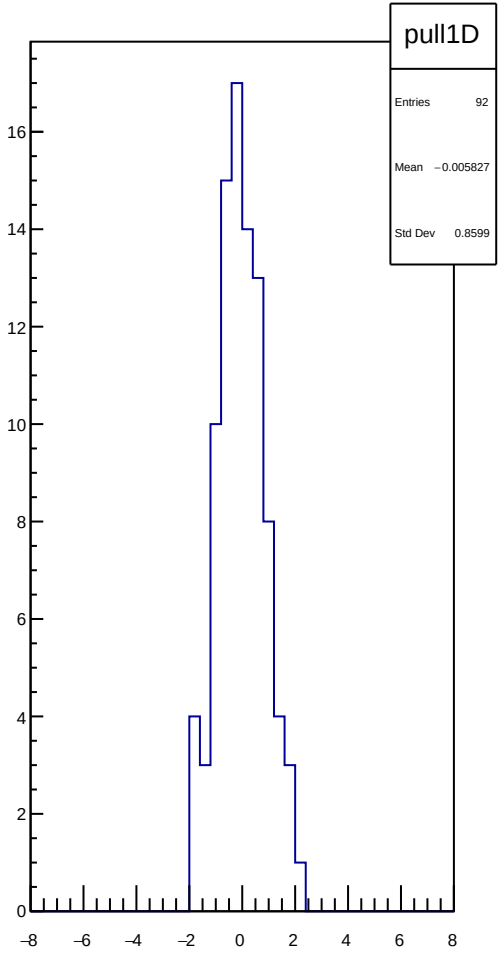

diff_bpm0l08Y_rms vs run
χ² / ndf 6318 / 91
p0 1753 ± 1.341
1900
1800
1700
1600
1500
1400
1300
1200

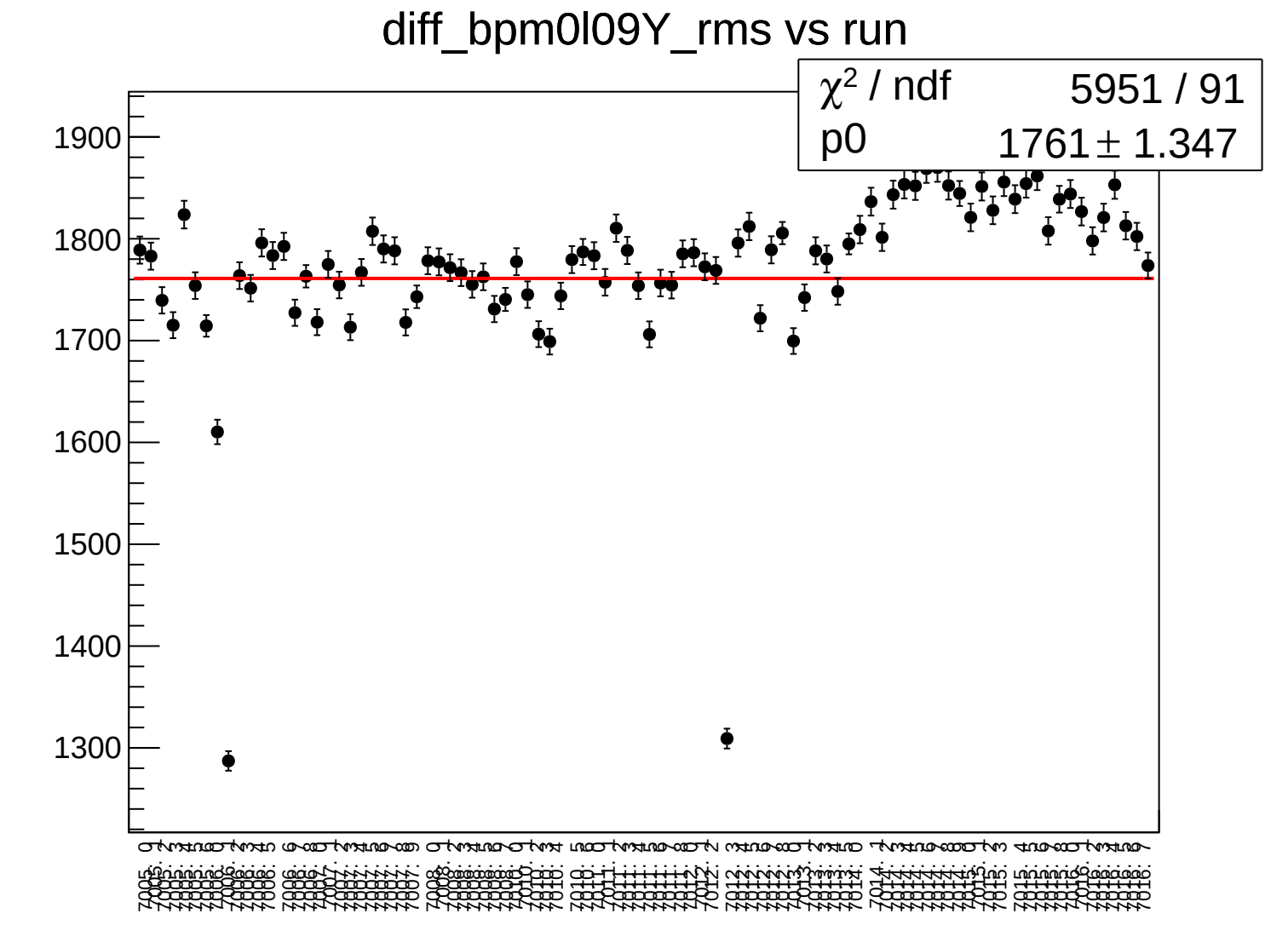

diff_bpm0l09X_mean vs run
χ² / ndf 100 / 91
p0 −6.709 ± 7.471
200
100
0
−100
−200
−300
pull
Entries 92
Mean −77.39
Std Dev 0
2
1
0
−1
−2

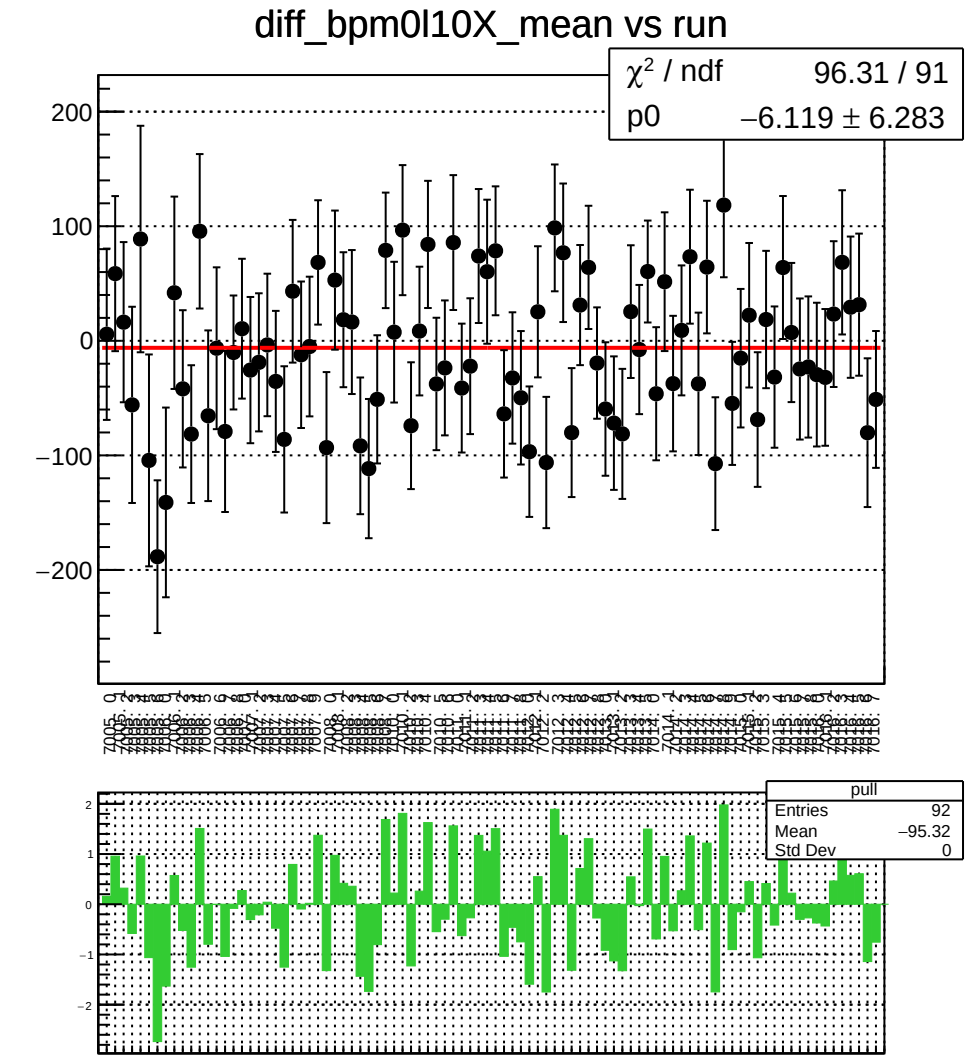

pull1D
Entries 92
Mean −0.01932
Std Dev 1.042
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

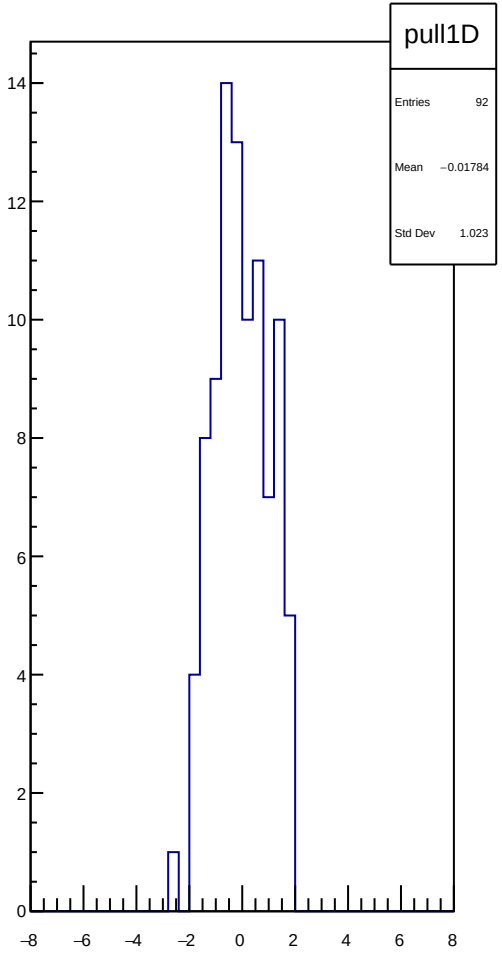

diff_bpm0l09X_rms vs run
$\chi^2$ / ndf 1.756e+04 / 91
p0 6883 ± 5.283
11000
10000
9000
8000
7000
6000

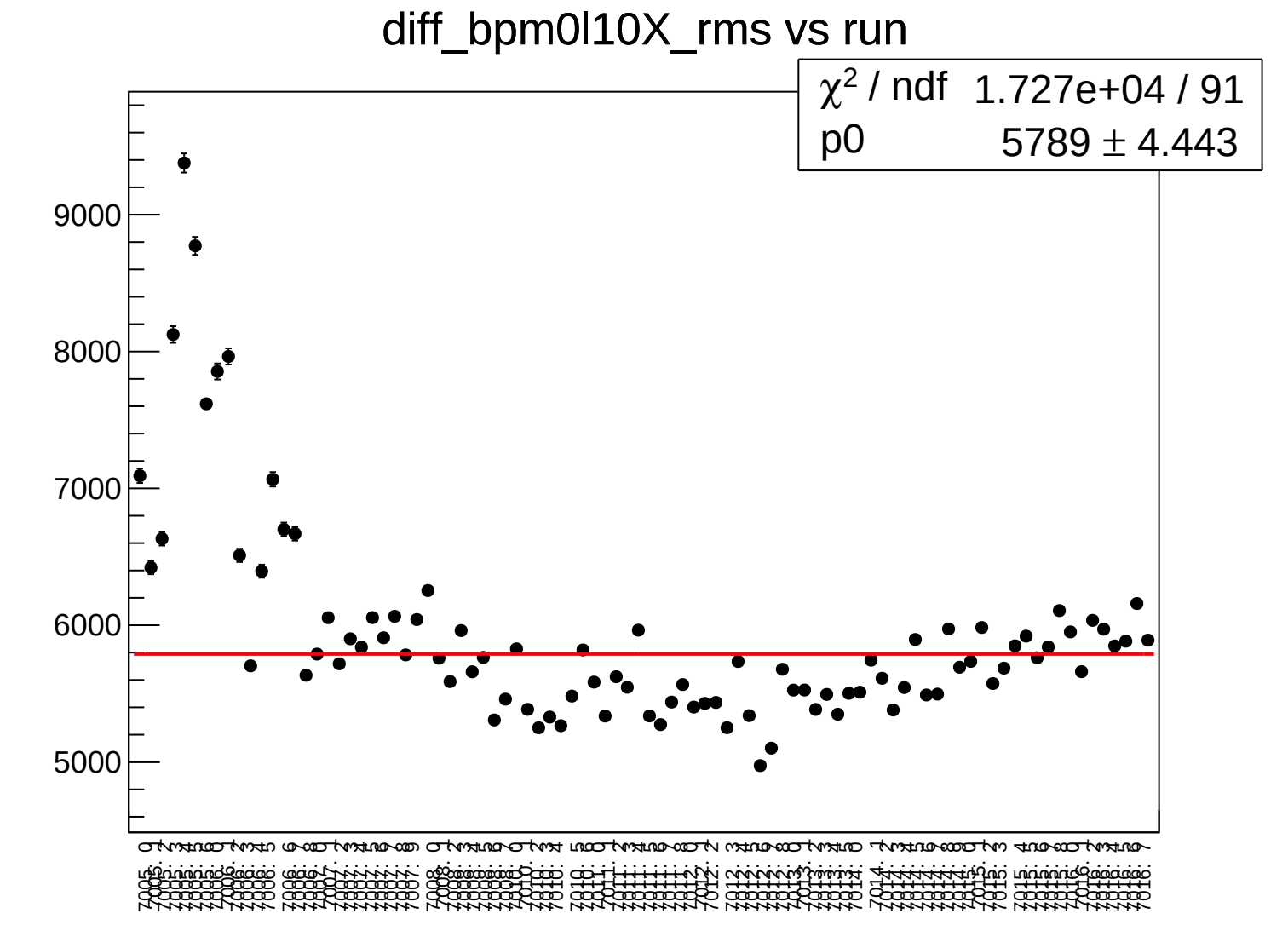

diff_bpm0l09Y_mean vs run
χ² / ndf 68.03 / 91
p0 −1.024 ± 1.905
pull
Entries 92
Mean 238.8
Std Dev 0

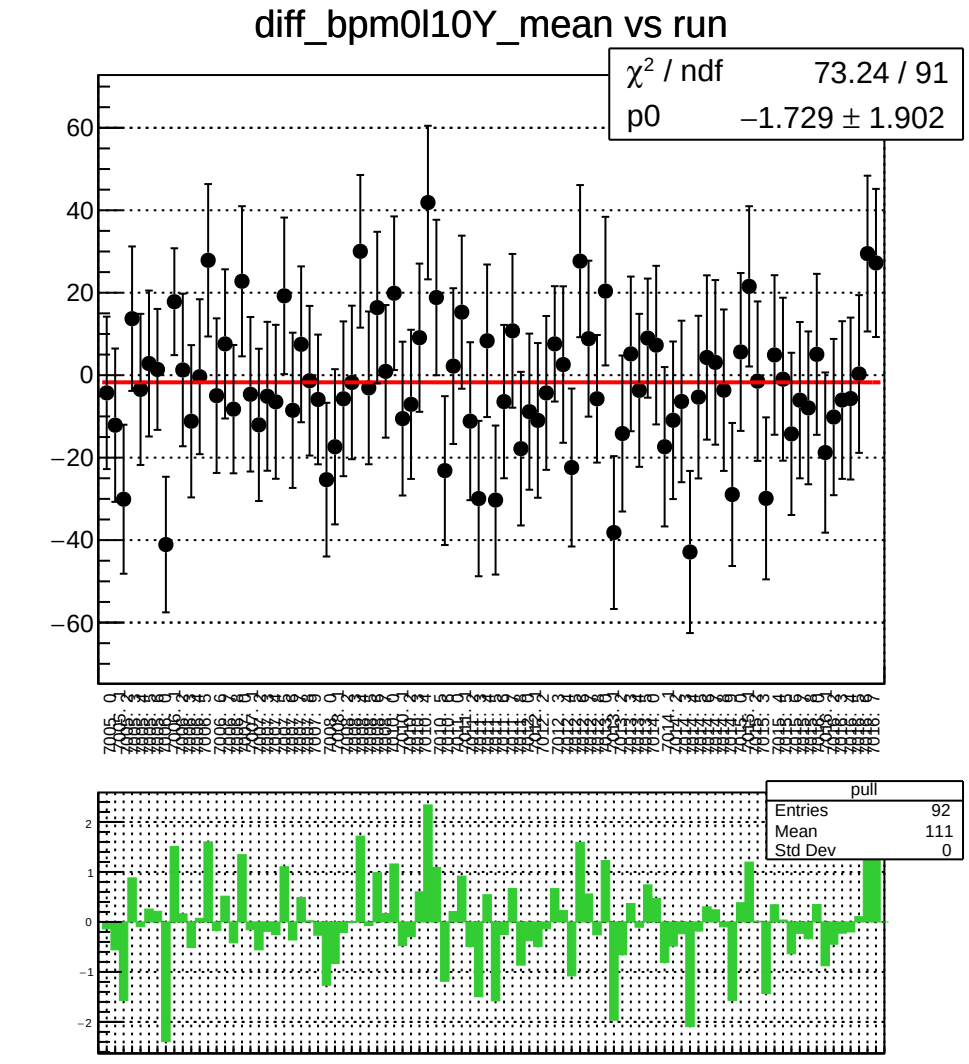

pull1D
Entries 92
Mean −0.005827
Std Dev 0.8599

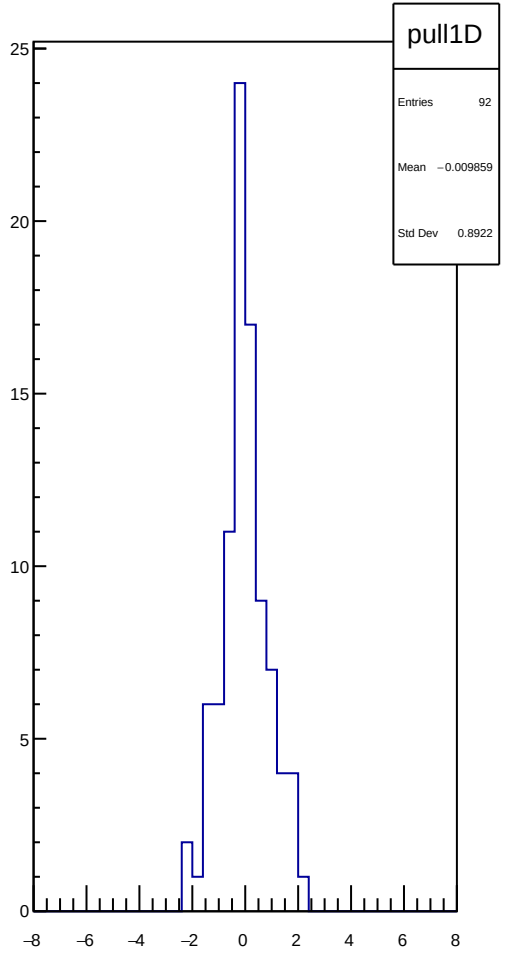

diff_bpm0l09Y_rms vs run
χ² / ndf 5951 / 91
p0 1761 ± 1.347
1900
1800
1700
1600
1500
1400
1300

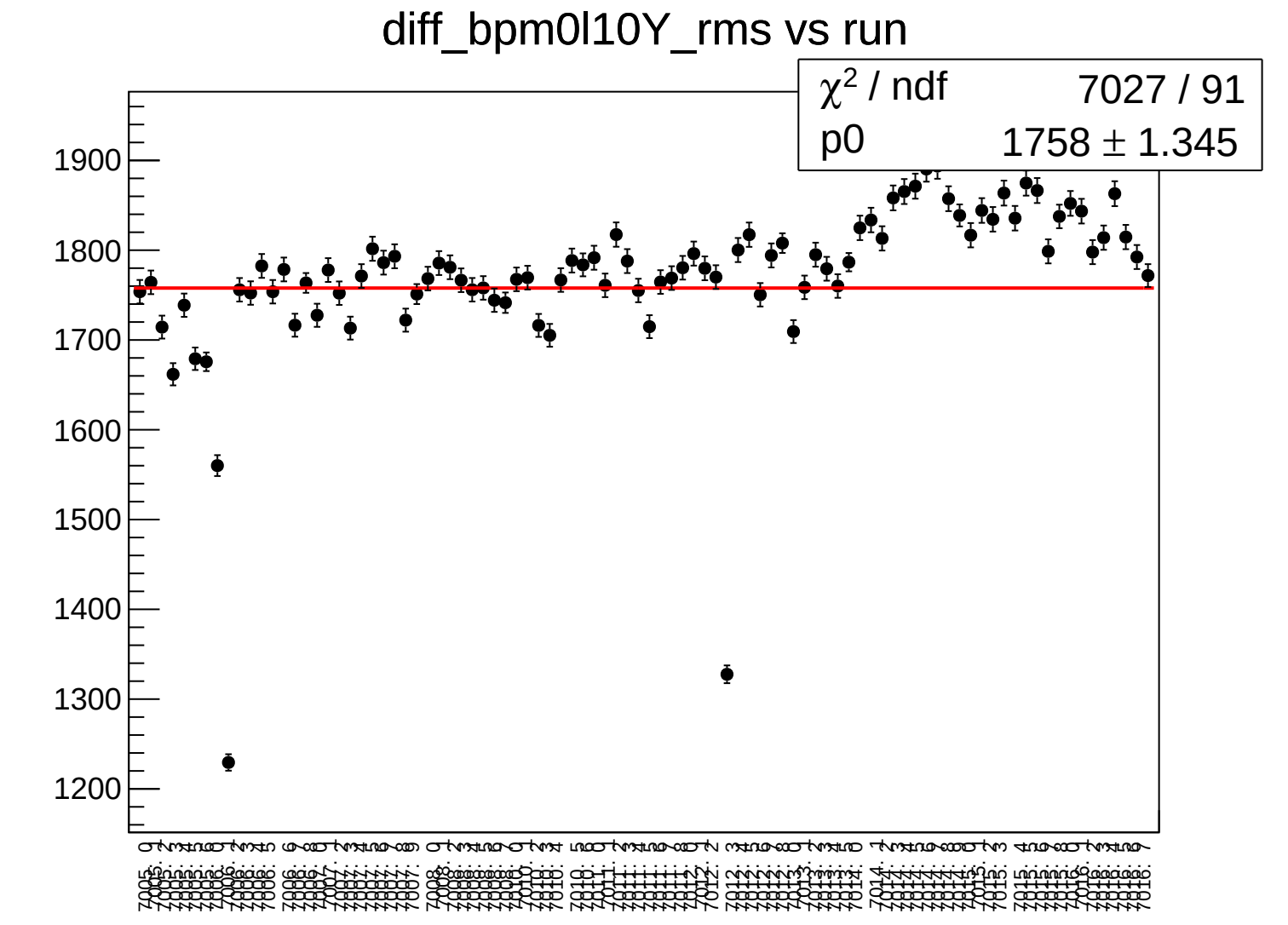

diff_bpm0l10X_mean vs run
χ² / ndf 96.31 / 91
p0 −6.119 ± 6.283
200
100
0
−100
−200
pull
Entries 92
Mean −95.32
Std Dev 0
2
1
0
−1
−2

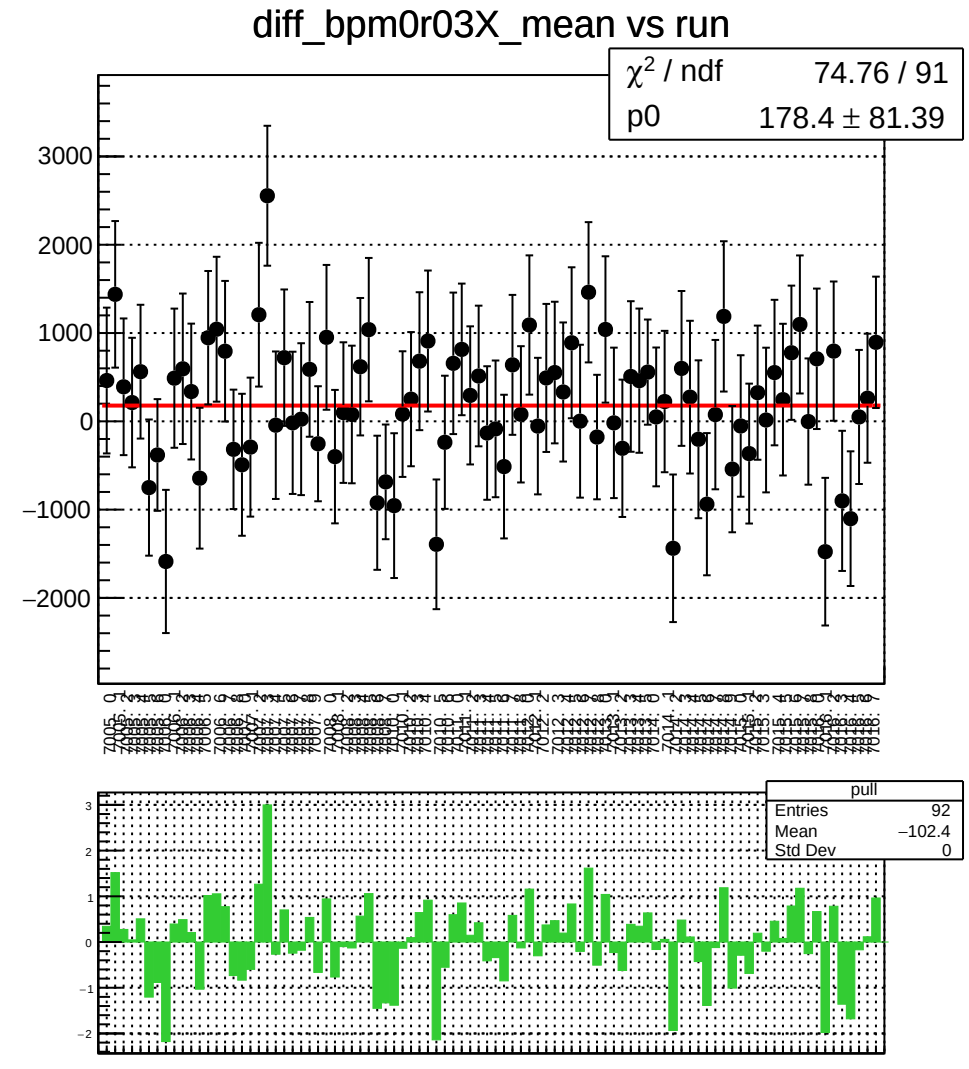

pull1D
Entries 92
Mean −0.01784
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

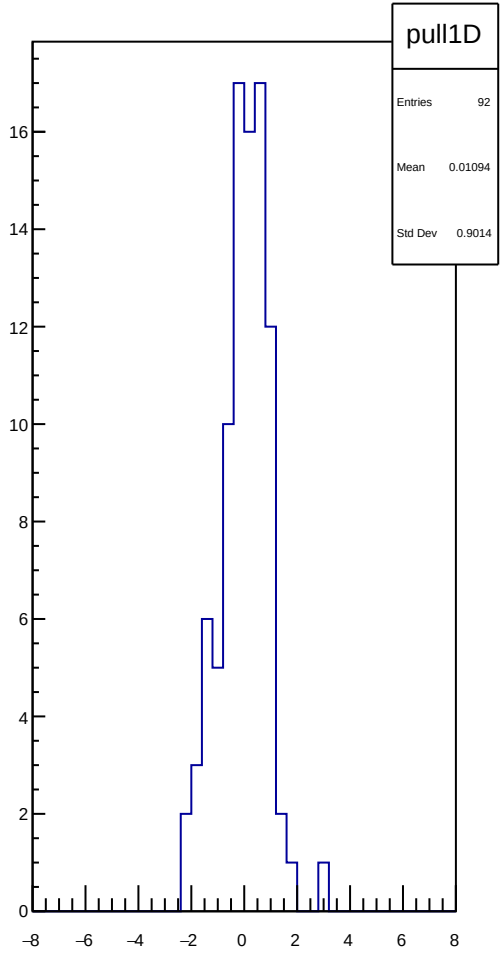

diff_bpm0l10X_rms vs run
$\chi^2$ / ndf 1.727e+04 / 91
p0 5789 ± 4.443
9000
8000
7000
6000
5000

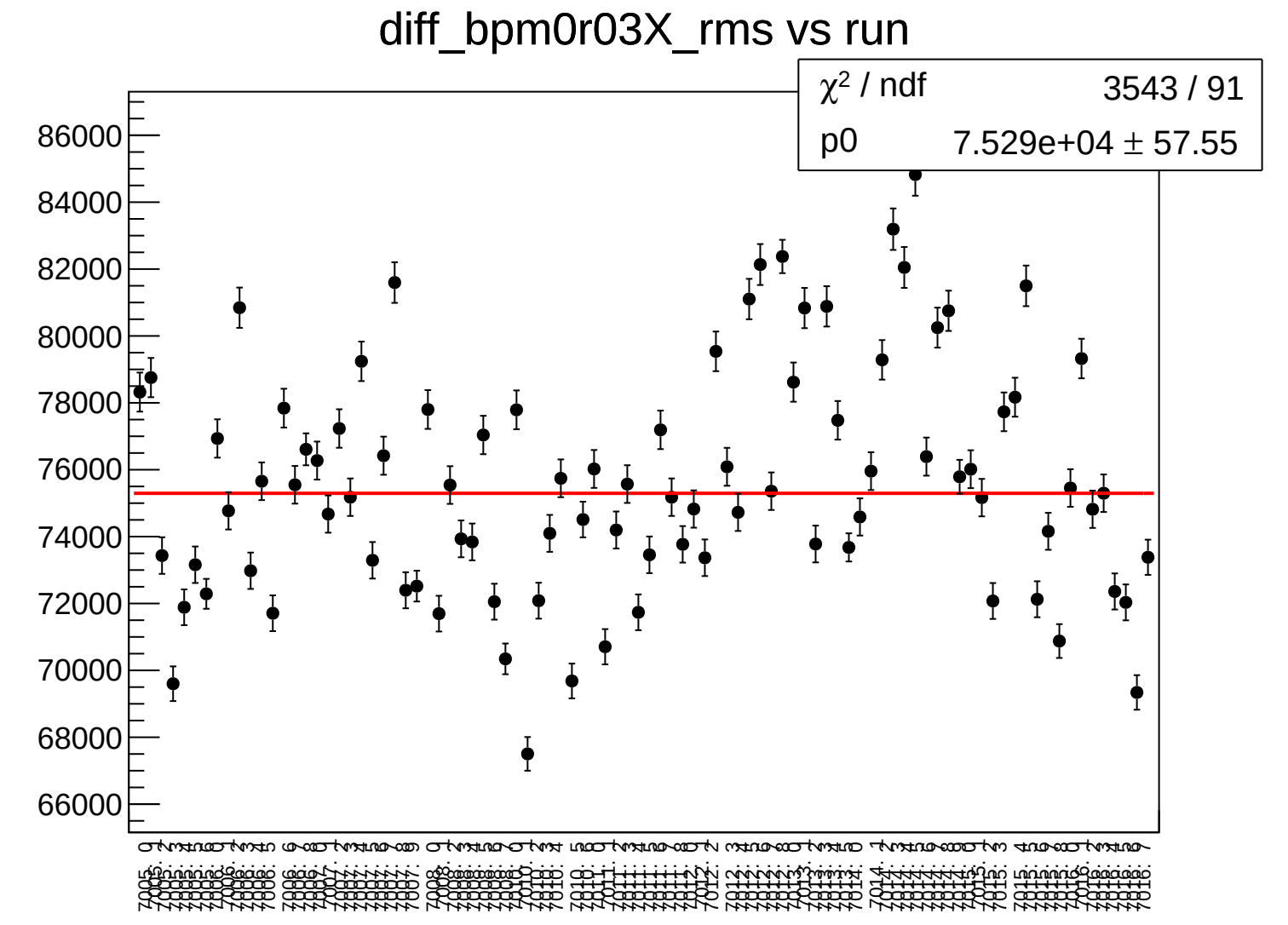

diff_bpm0l10Y_mean vs run
χ² / ndf 73.24 / 91
p0 −1.729 ± 1.902
pull
Entries 92
Mean 111
Std Dev 0

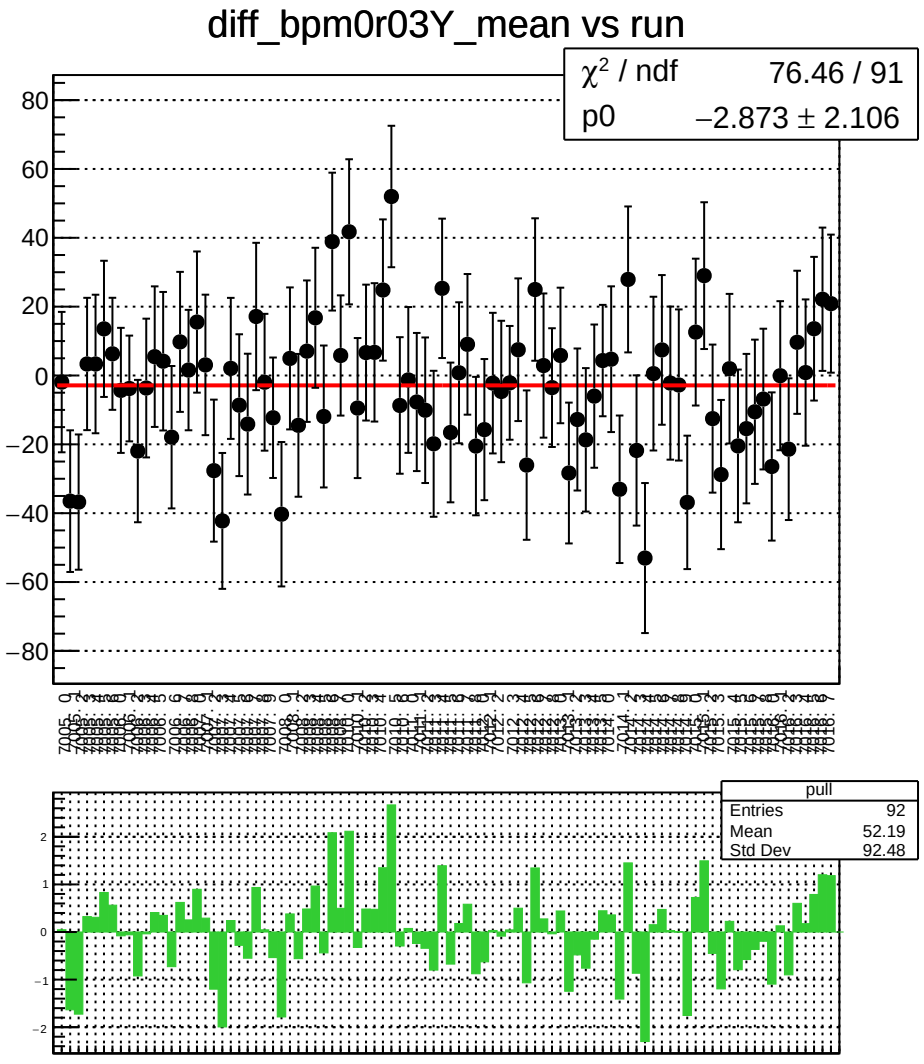

pull1D
Entries 92
Mean −0.009859
Std Dev 0.8922

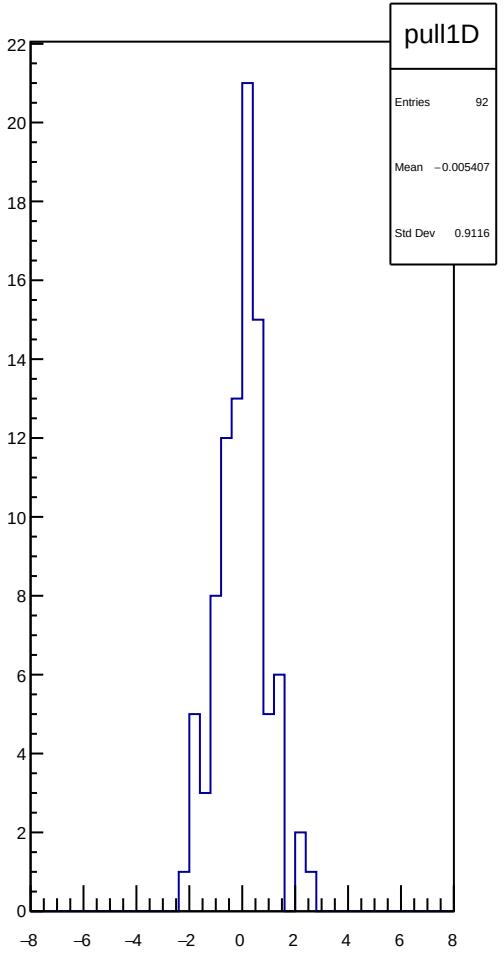

diff_bpm0l10Y_rms vs run
χ² / ndf 7027 / 91
p0 1758 ± 1.345
1900
1800
1700
1600
1500
1400
1300
1200

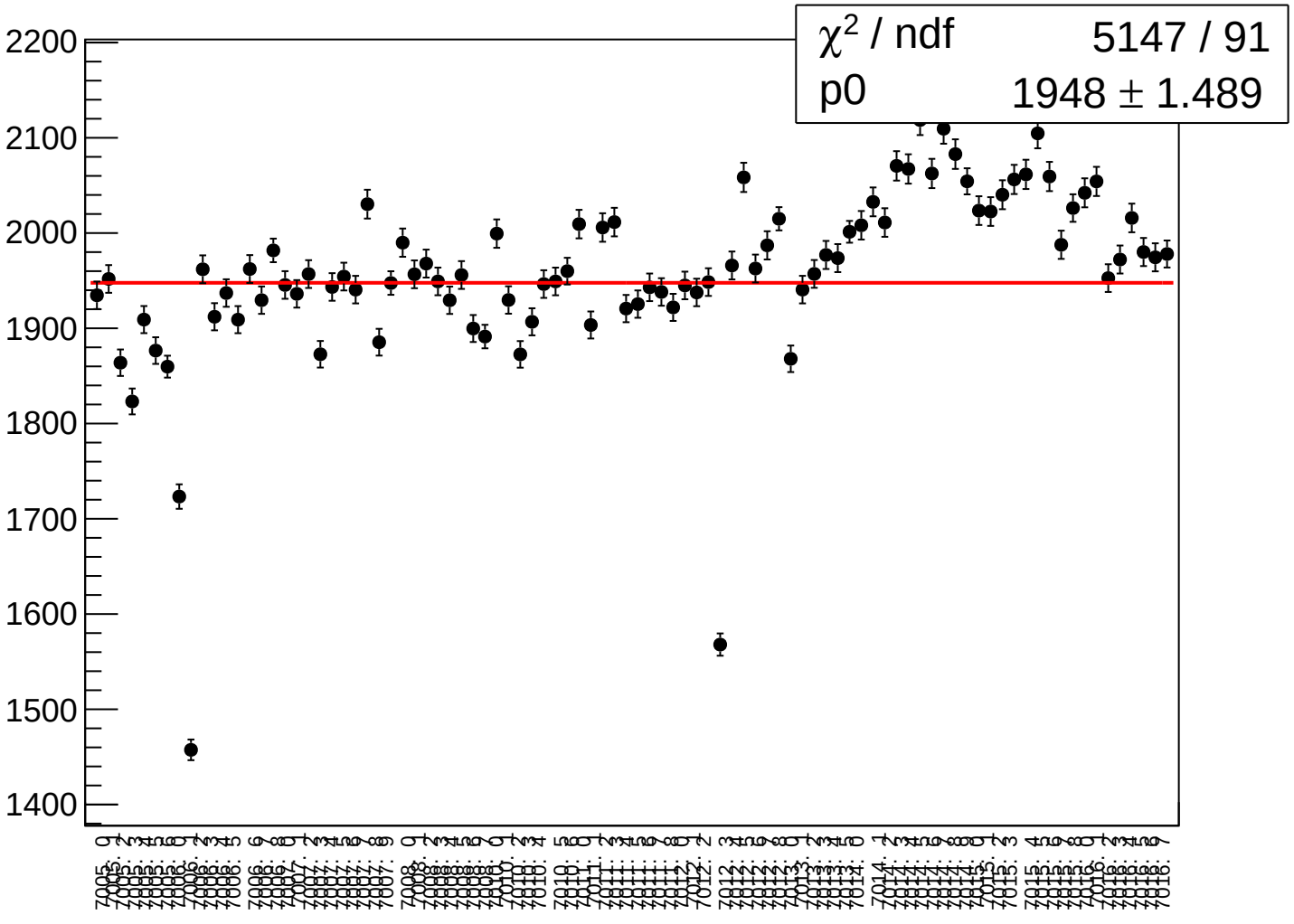

diff_bpm0r03X_mean vs run
$\chi^2$ / ndf 74.76 / 91
p0 178.4 ± 81.39
3000
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −102.4
Std Dev 0
3
2
1
0
−1
−2

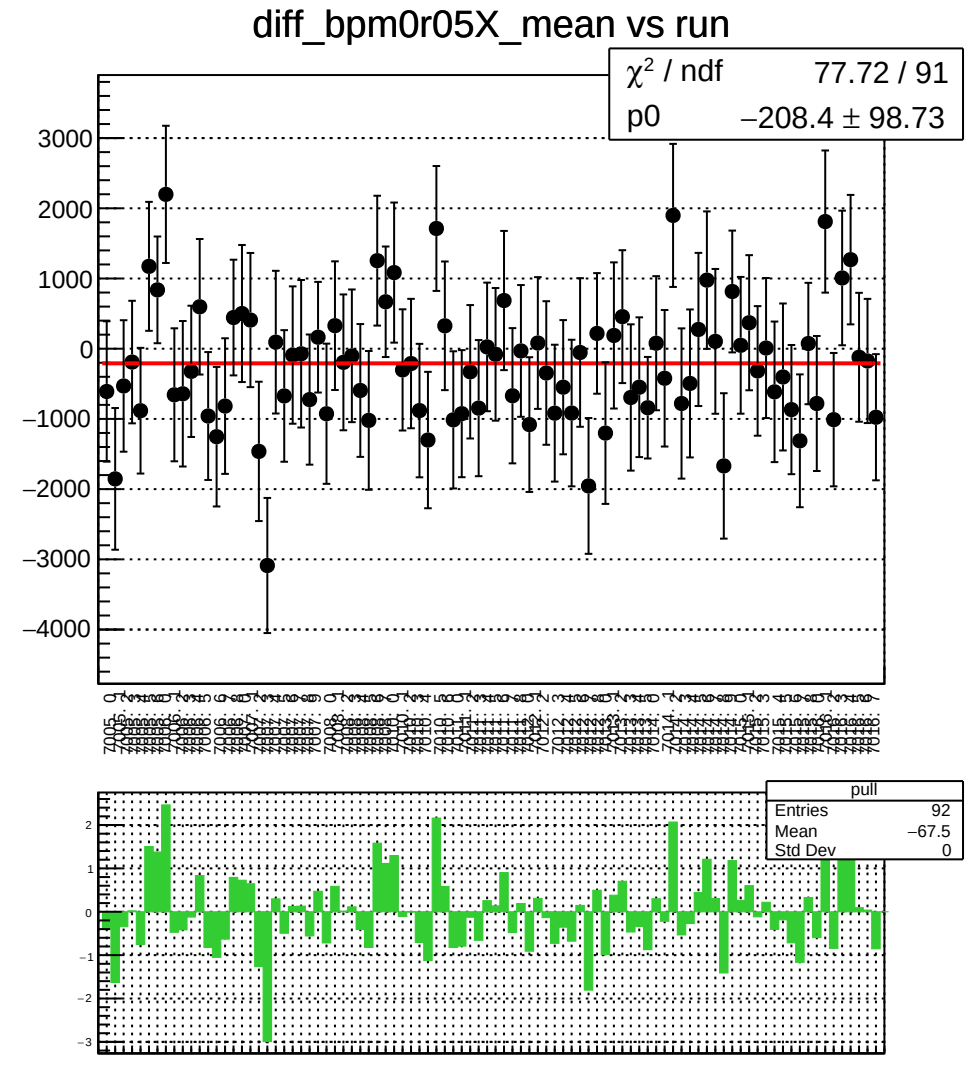

pull1D
Entries 92
Mean 0.01094
Std Dev 0.9014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

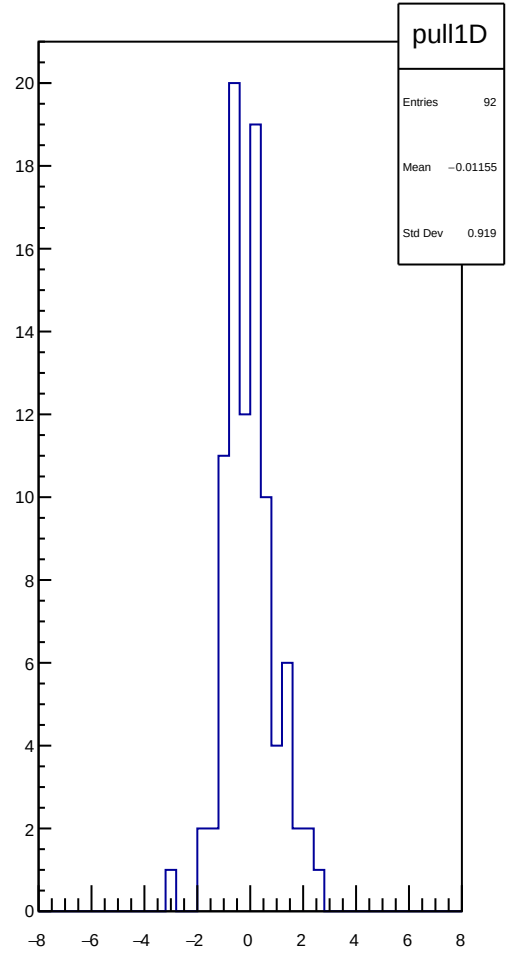

diff_bpm0r03X_rms vs run
χ² / ndf 3543 / 91
p0 7.529e+04 ± 57.55
86000
84000
82000
80000
78000
76000
74000
72000
70000
68000
66000

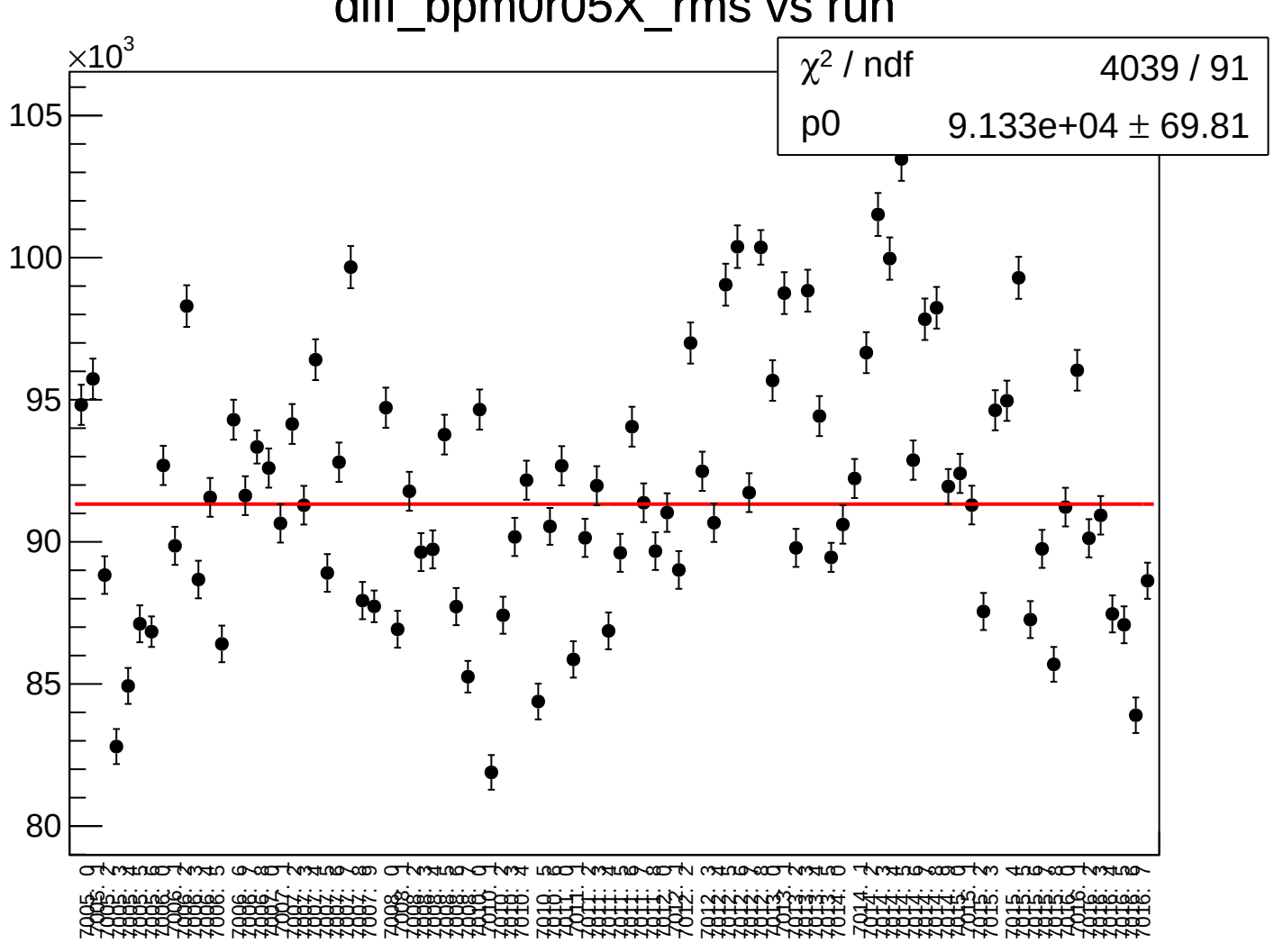

diff_bpm0r03Y_mean vs run
χ² / ndf 76.46 / 91
p0 −2.873 ± 2.106
pull
Entries 92
Mean 52.19
Std Dev 92.48

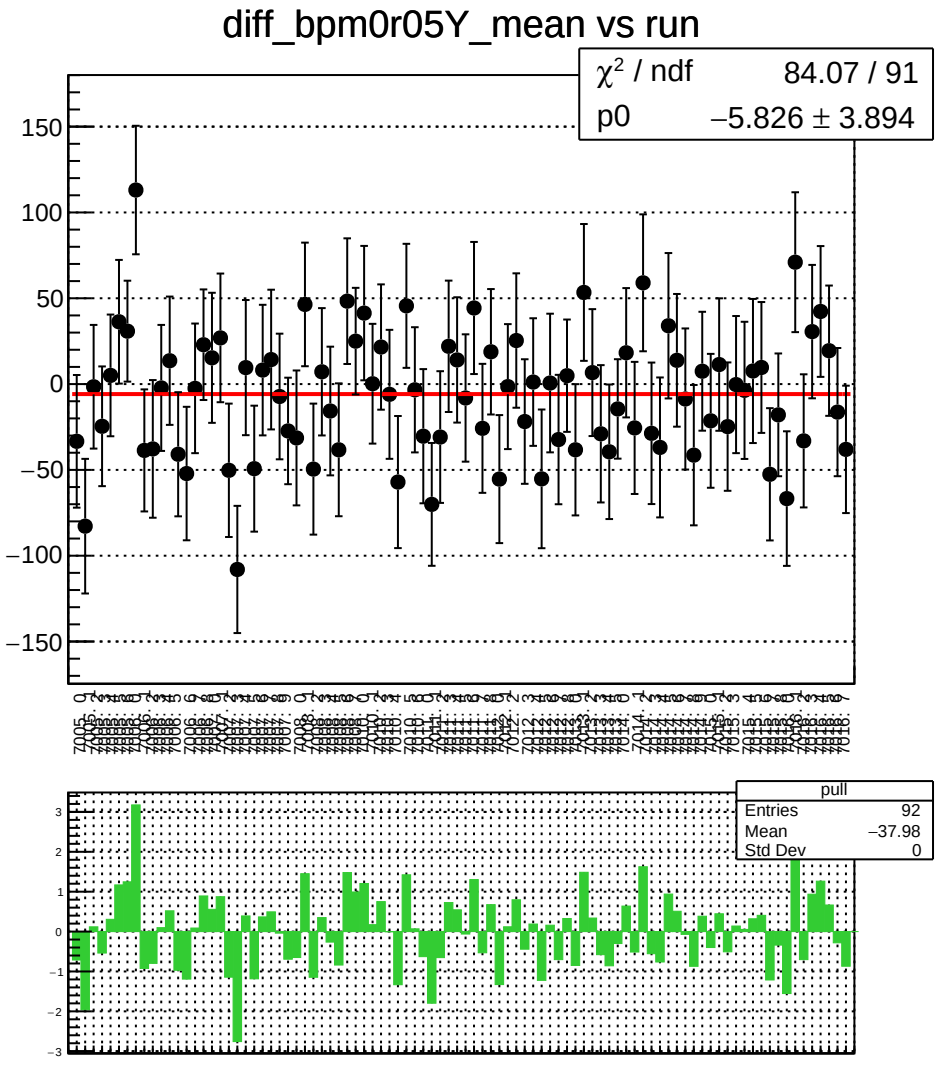

pull1D
Entries 92
Mean −0.005407
Std Dev 0.9116

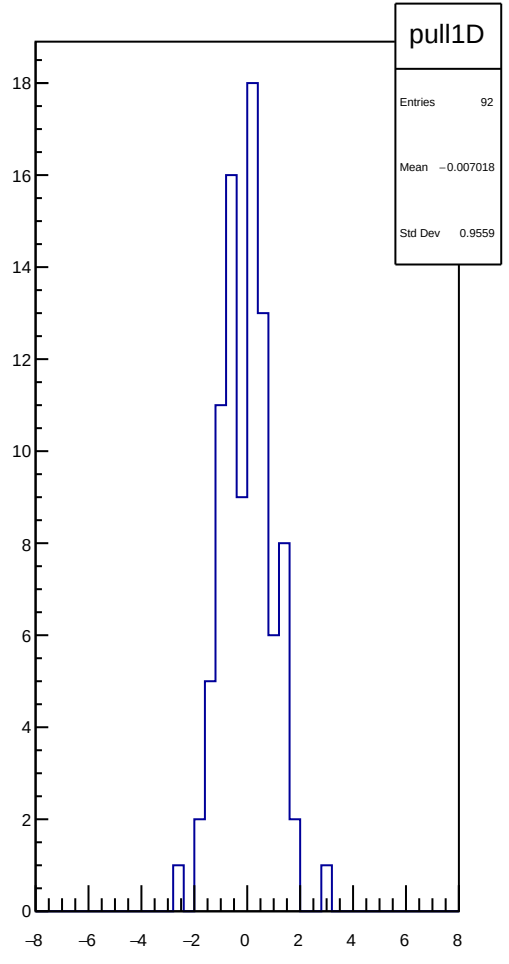

diff_bpm0r03Y_rms vs run
χ² / ndf 5147 / 91
p0 1948 ± 1.489
2200
2100
2000
1900
1800
1700
1600
1500
1400

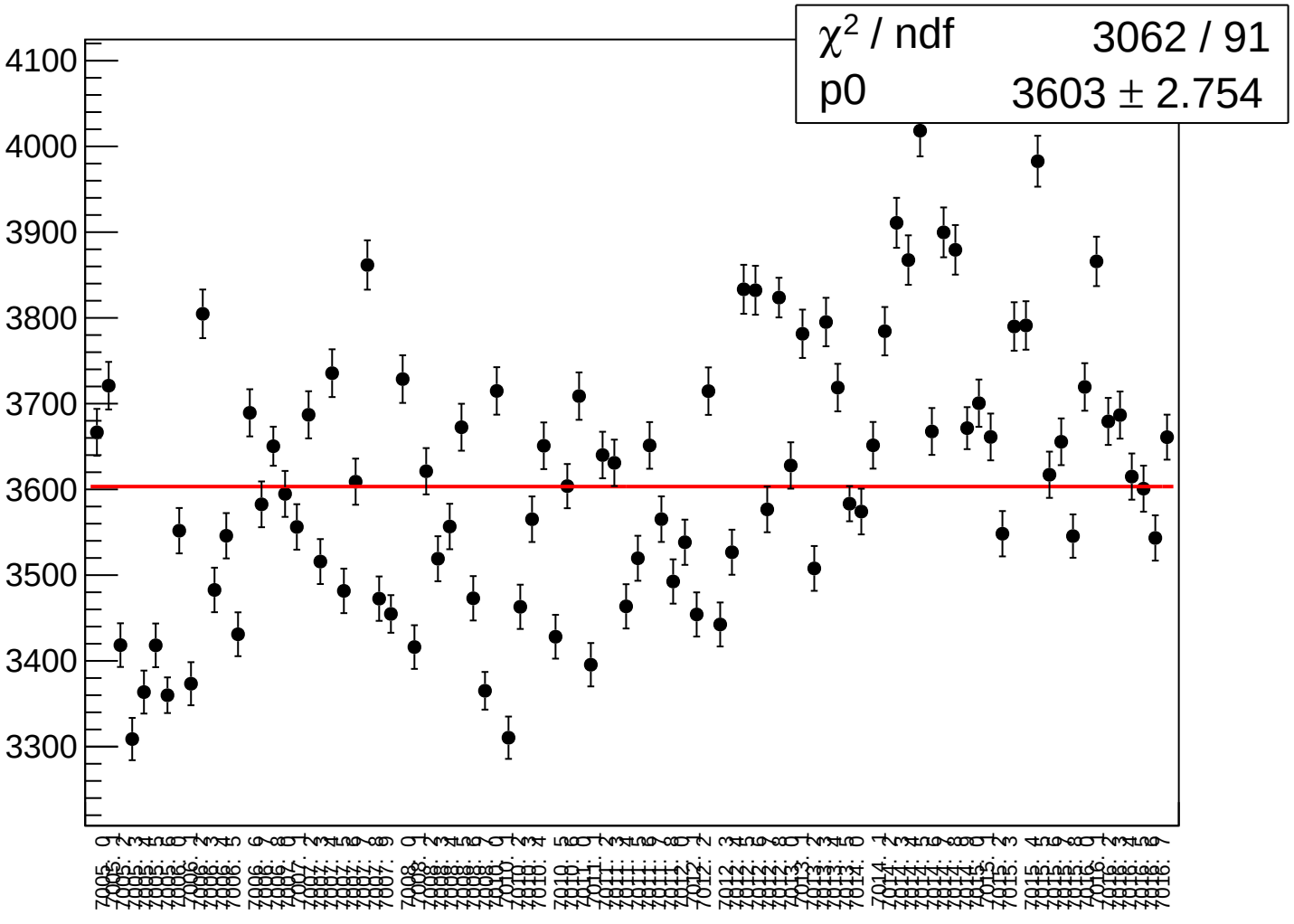

diff_bpm0r05X_mean vs run
χ² / ndf 77.72 / 91
p0 −208.4 ± 98.73
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −67.5
Std Dev 0
2
1
0
−1
−2
−3

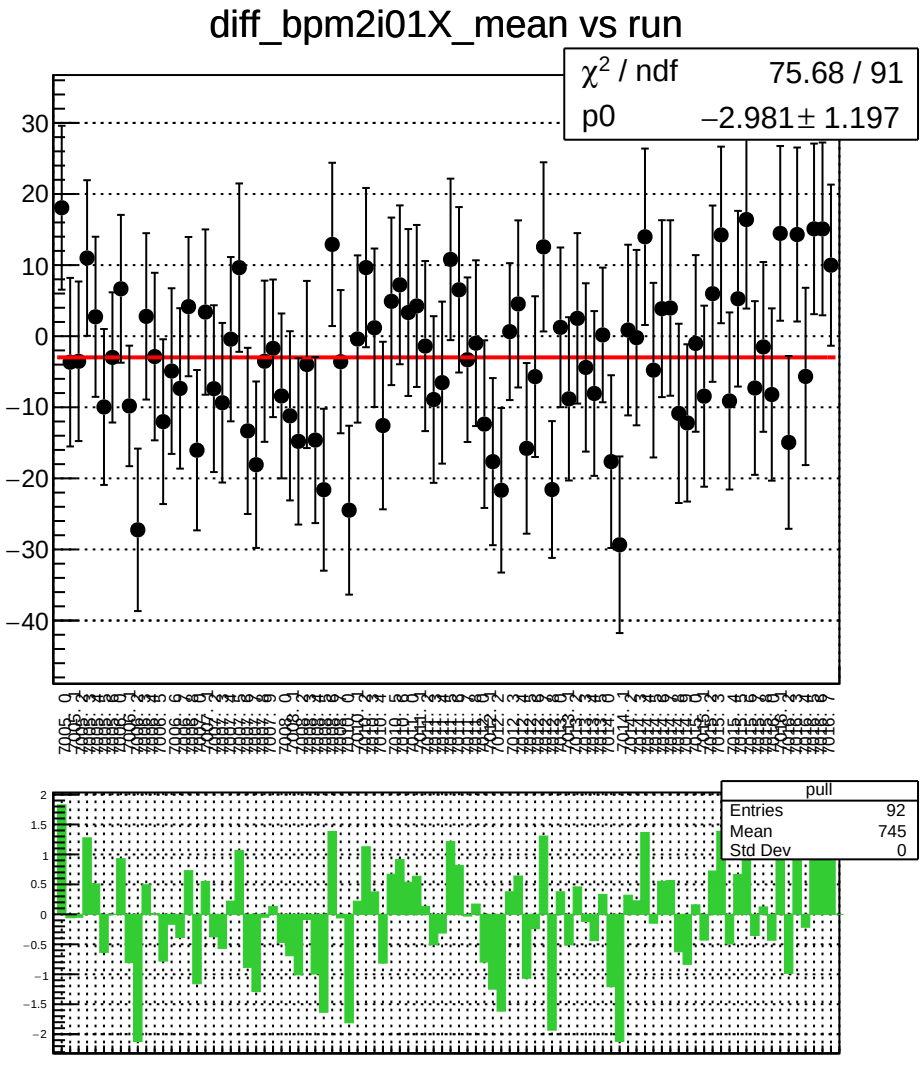

pull1D
Entries 92
Mean −0.01155
Std Dev 0.919
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

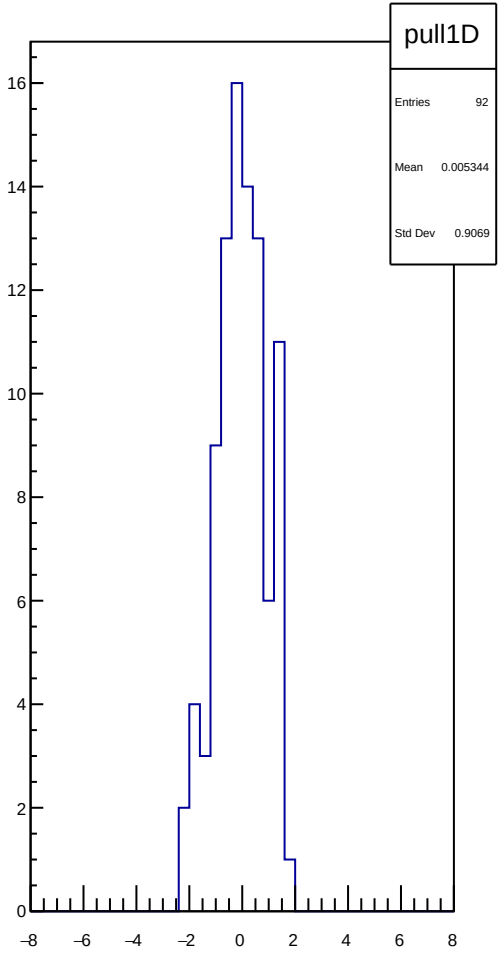

diff_bpm0r05X_rms vs run
×10^3
105
100
95
90
85
80
χ² / ndf 4039 / 91
p0 9.133e+04 ± 69.81

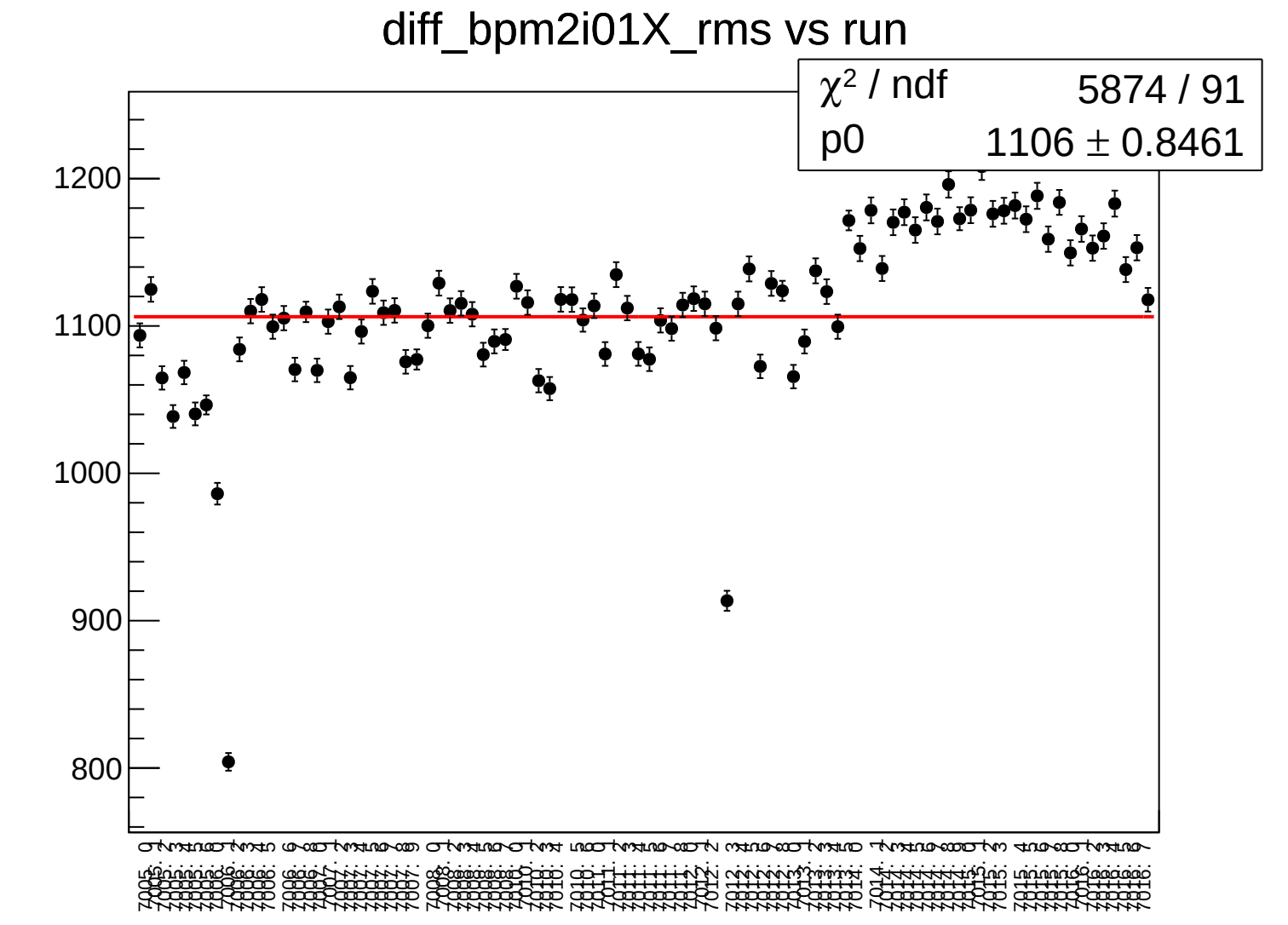

diff_bpm0r05Y_mean vs run
χ² / ndf 84.07 / 91
p0 −5.826 ± 3.894
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean −37.98
Std Dev 0
3
2
1
0
−1
−2
−3

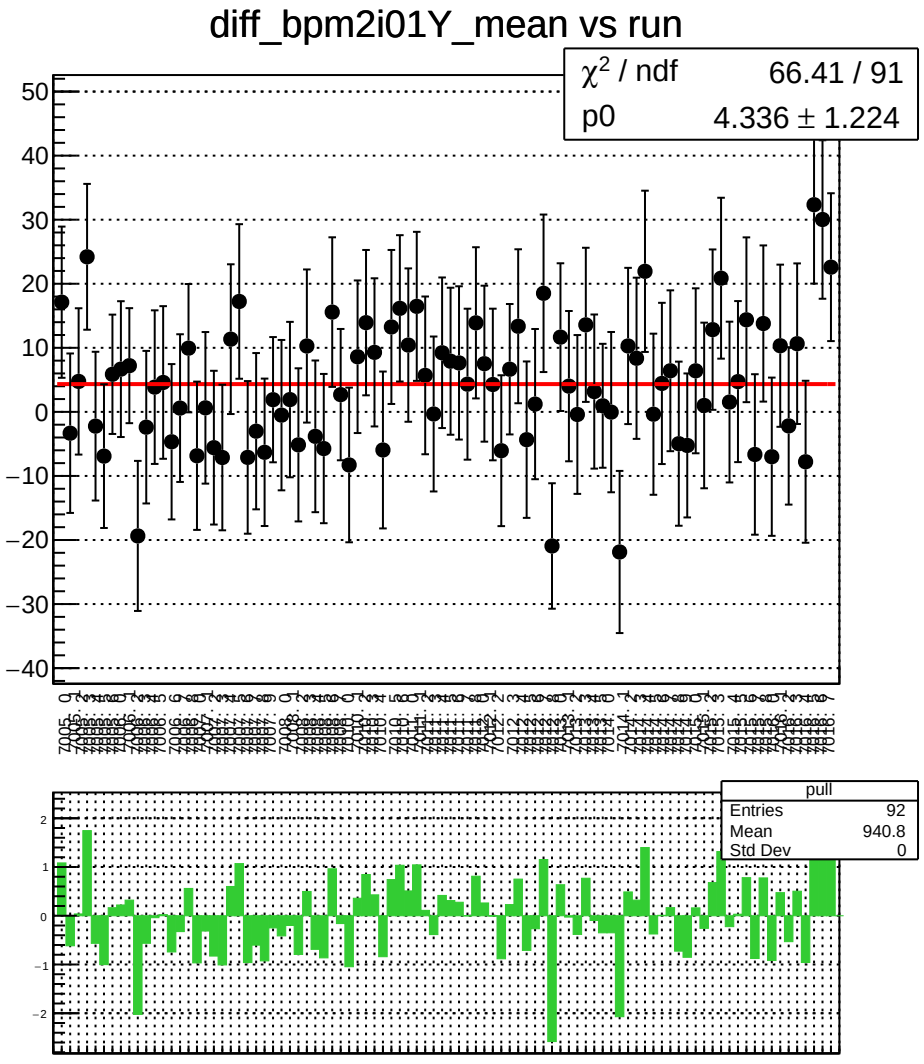

pull1D
Entries 92
Mean −0.007018
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

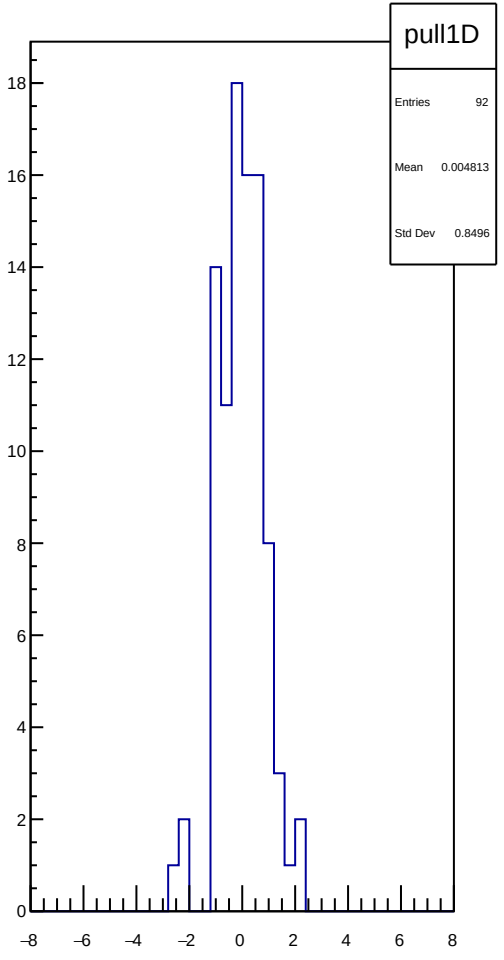

diff_bpm0r05Y_rms vs run
χ² / ndf 3062 / 91
p0 3603 ± 2.754
4100
4000
3900
3800
3700
3600
3500
3400
3300

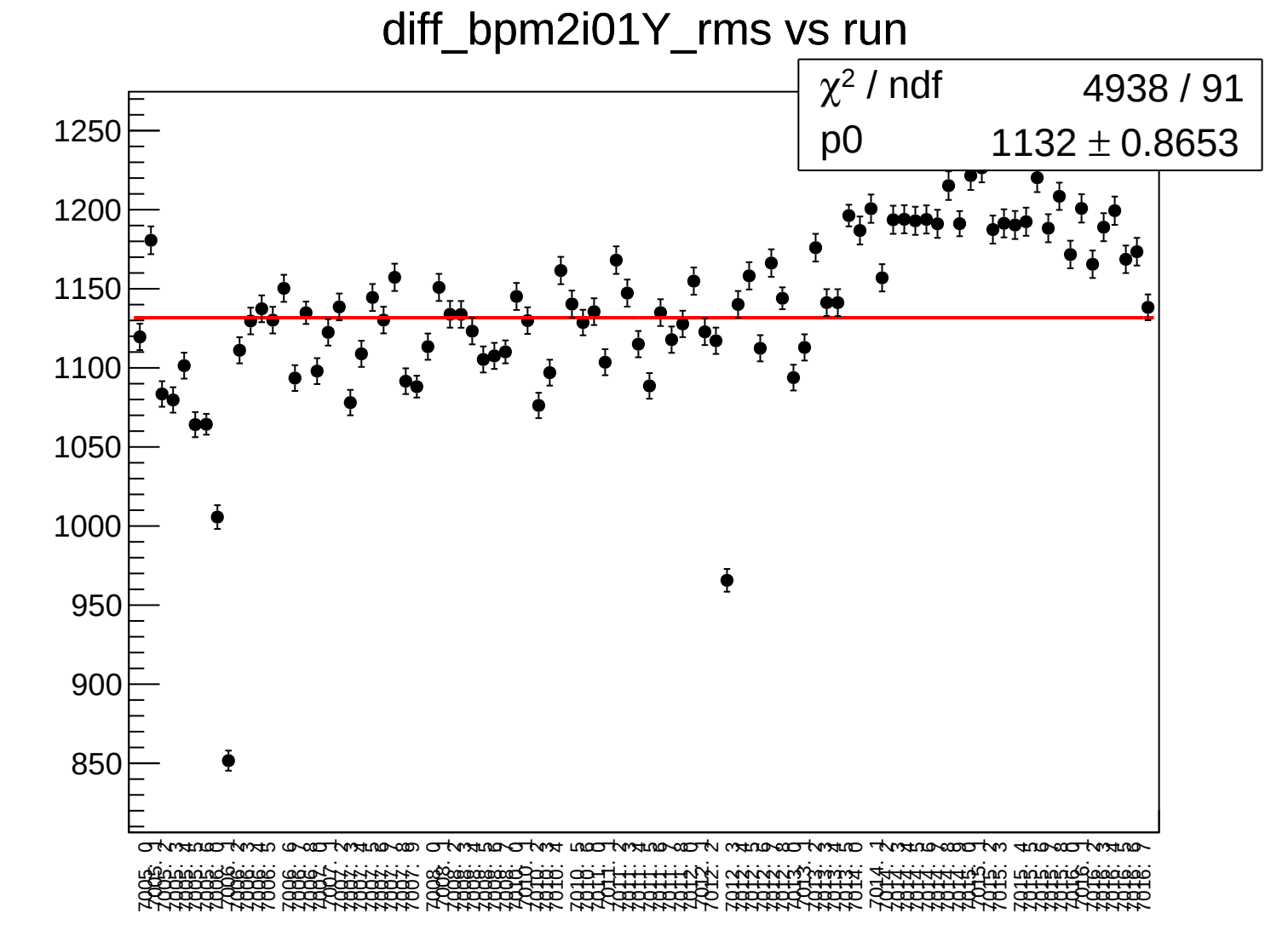

diff_bpm2i01X_mean vs run
χ² / ndf 75.68 / 91
p0 −2.981 ± 1.197
pull
Entries 92
Mean 745
Std Dev 0

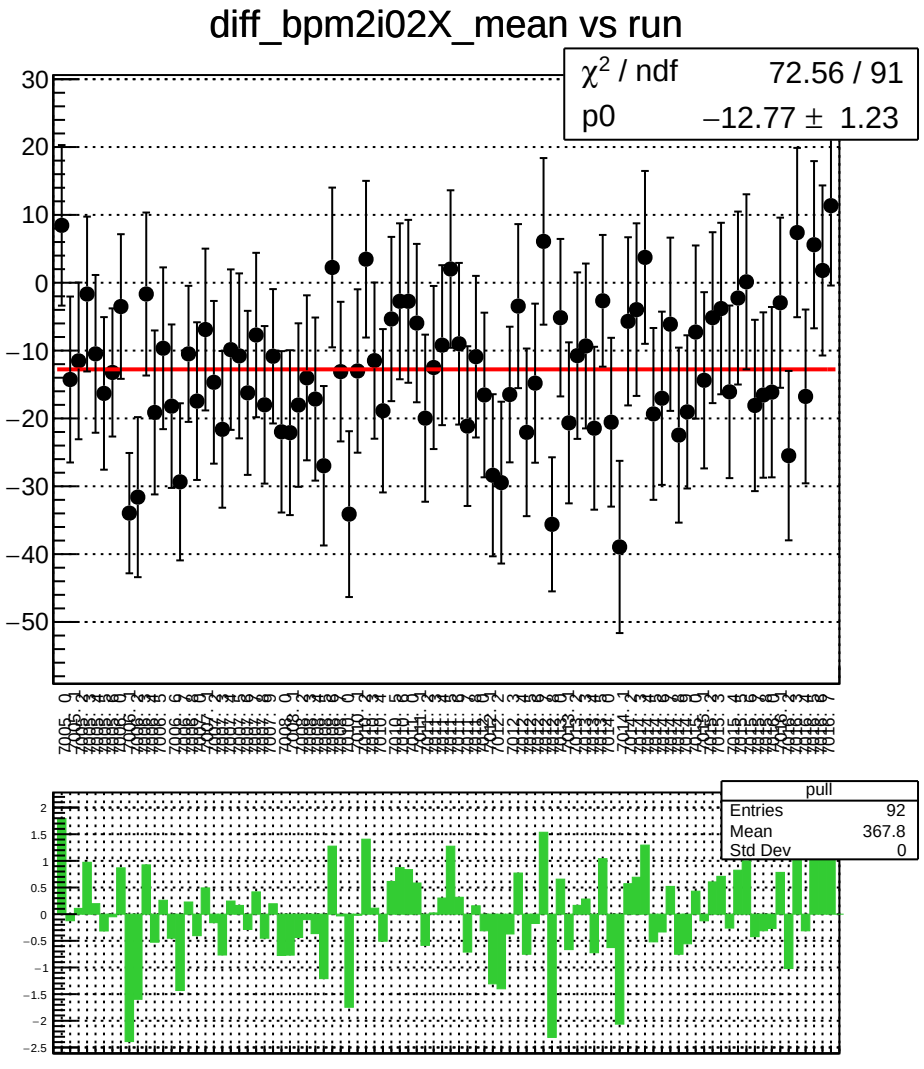

pull1D
Entries 92
Mean 0.005344
Std Dev 0.9069

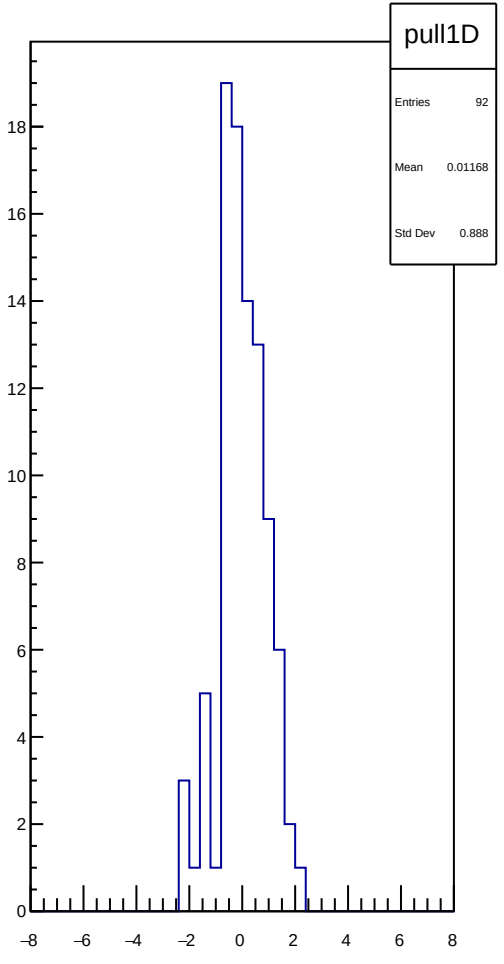

diff_bpm2i01X_rms vs run
χ² / ndf 5874 / 91
p0 1106 ± 0.8461
1200
1100
1000
900
800

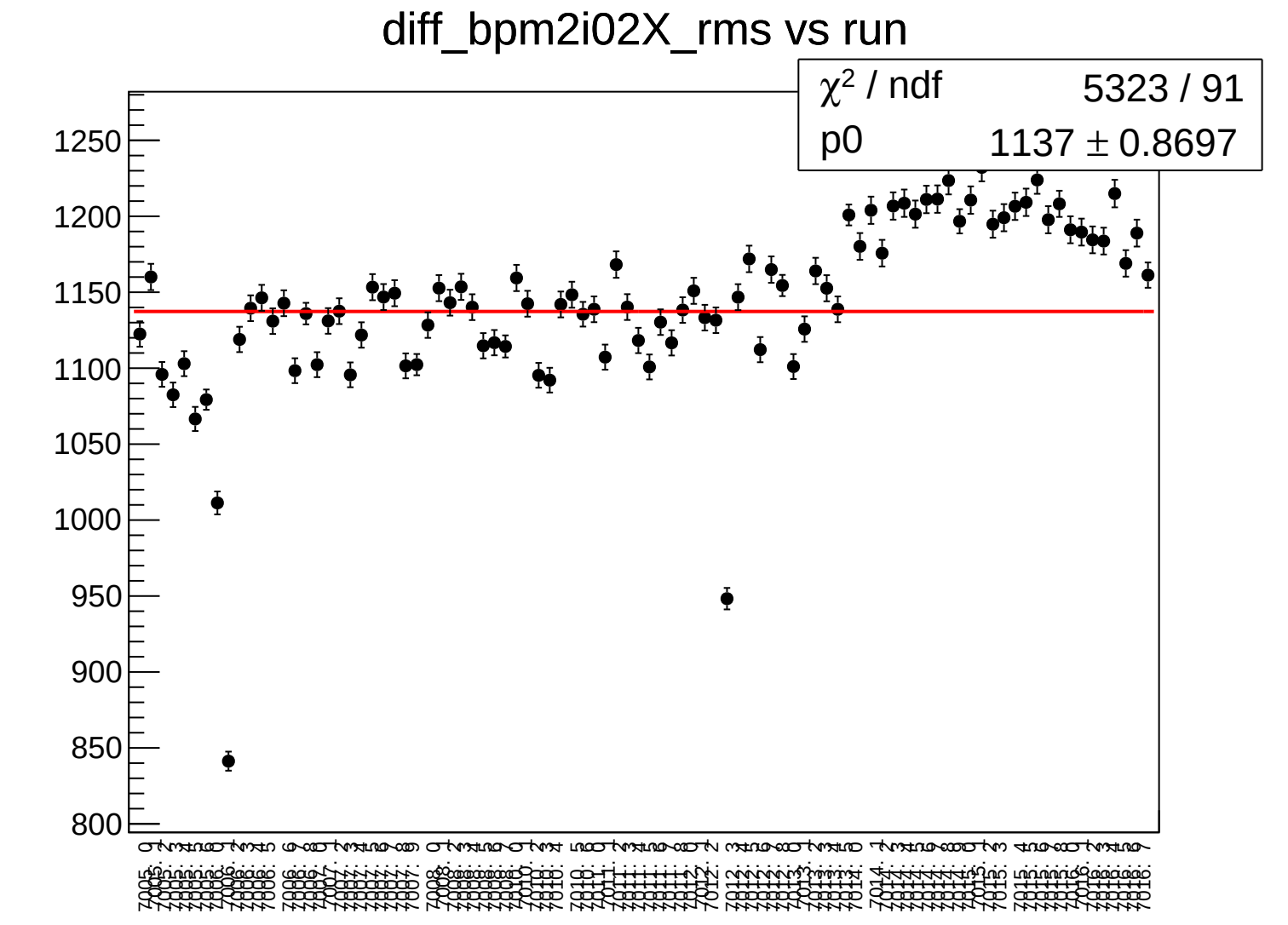

diff_bpm2i01Y_mean vs run
χ² / ndf 66.41 / 91
p0 4.336 ± 1.224
pull
Entries 92
Mean 940.8
Std Dev 0

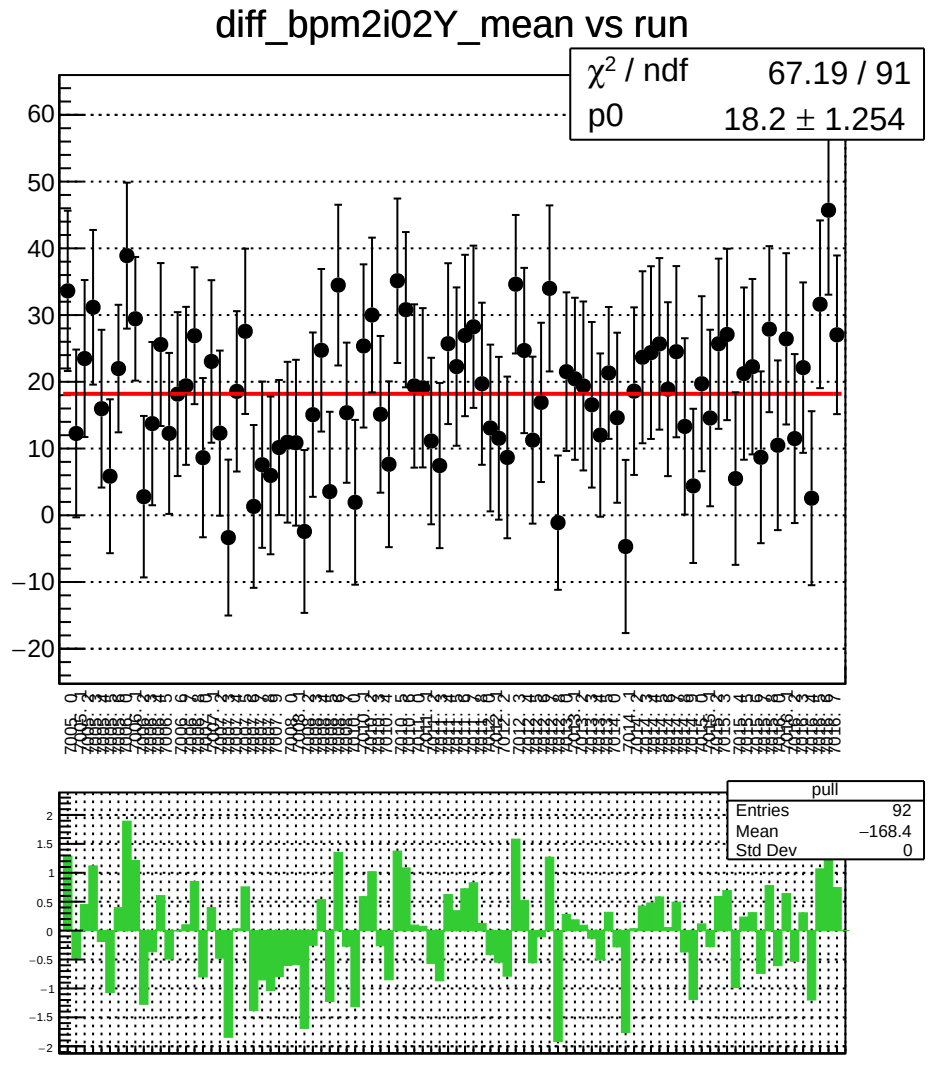

pull1D
Entries 92
Mean 0.004813
Std Dev 0.8496

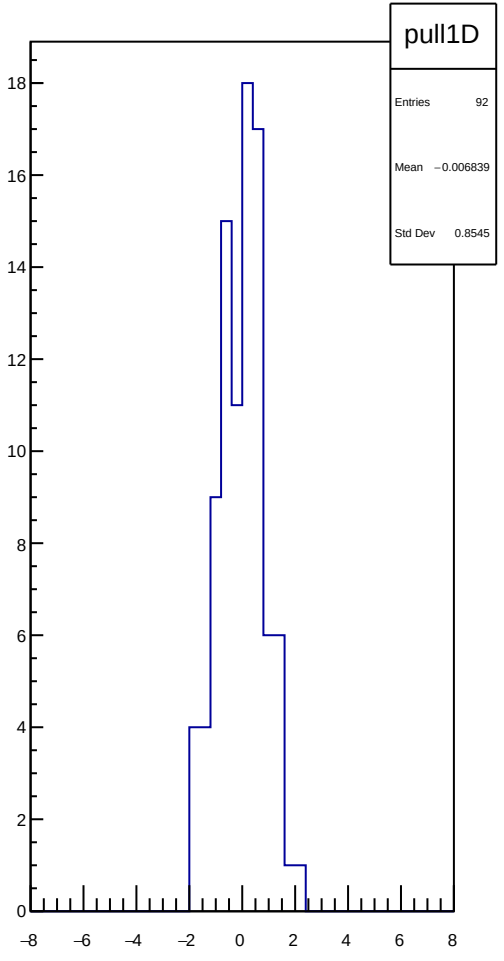

diff_bpm2i01Y_rms vs run
χ² / ndf 4938 / 91
p0 1132 ± 0.8653
1250
1200
1150
1100
1050
1000
950
900
850

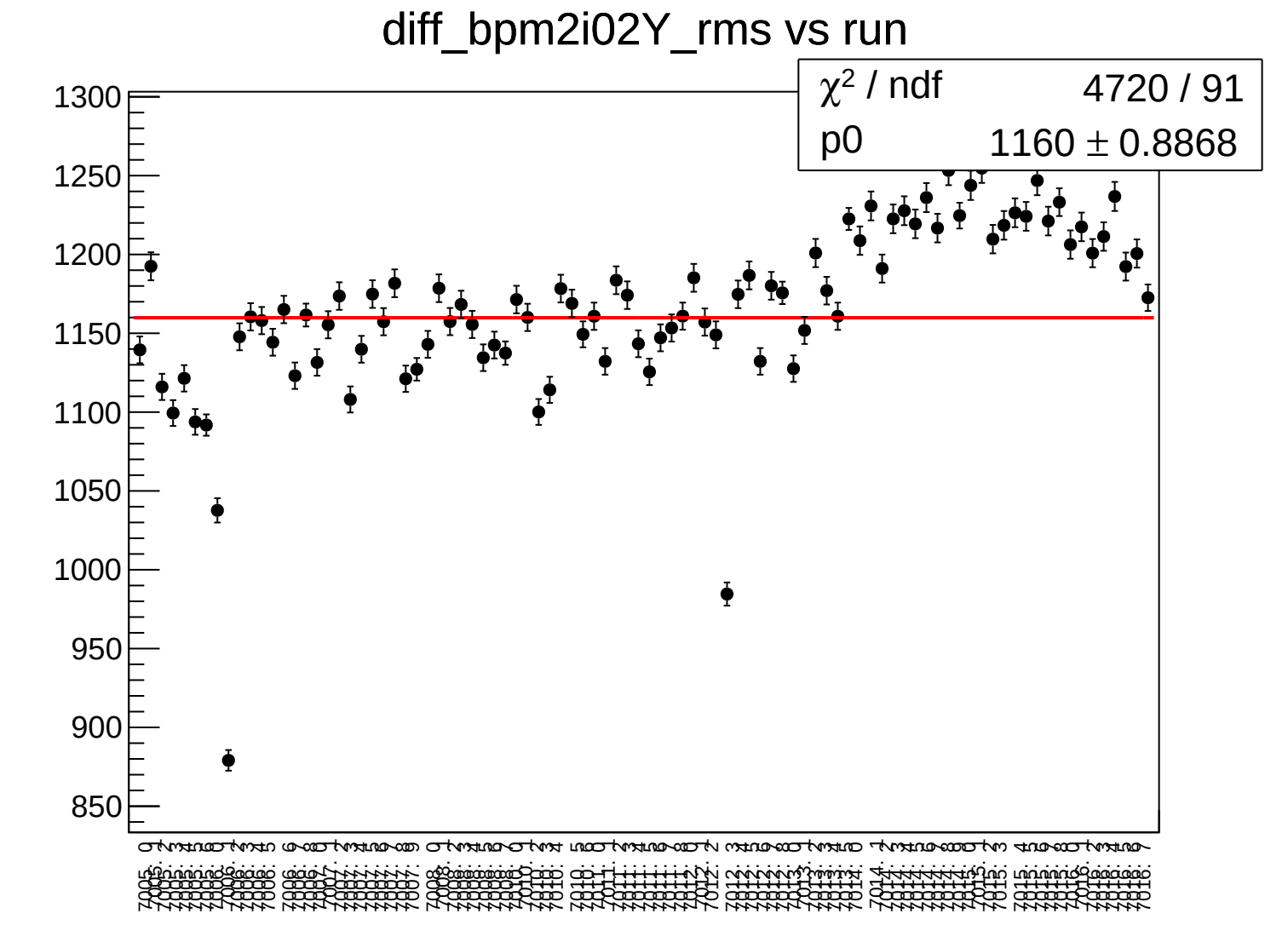

diff_bpm2i02X_mean vs run
χ² / ndf 72.56 / 91
p0 −12.77 ± 1.23
pull
Entries 92
Mean 367.8
Std Dev 0

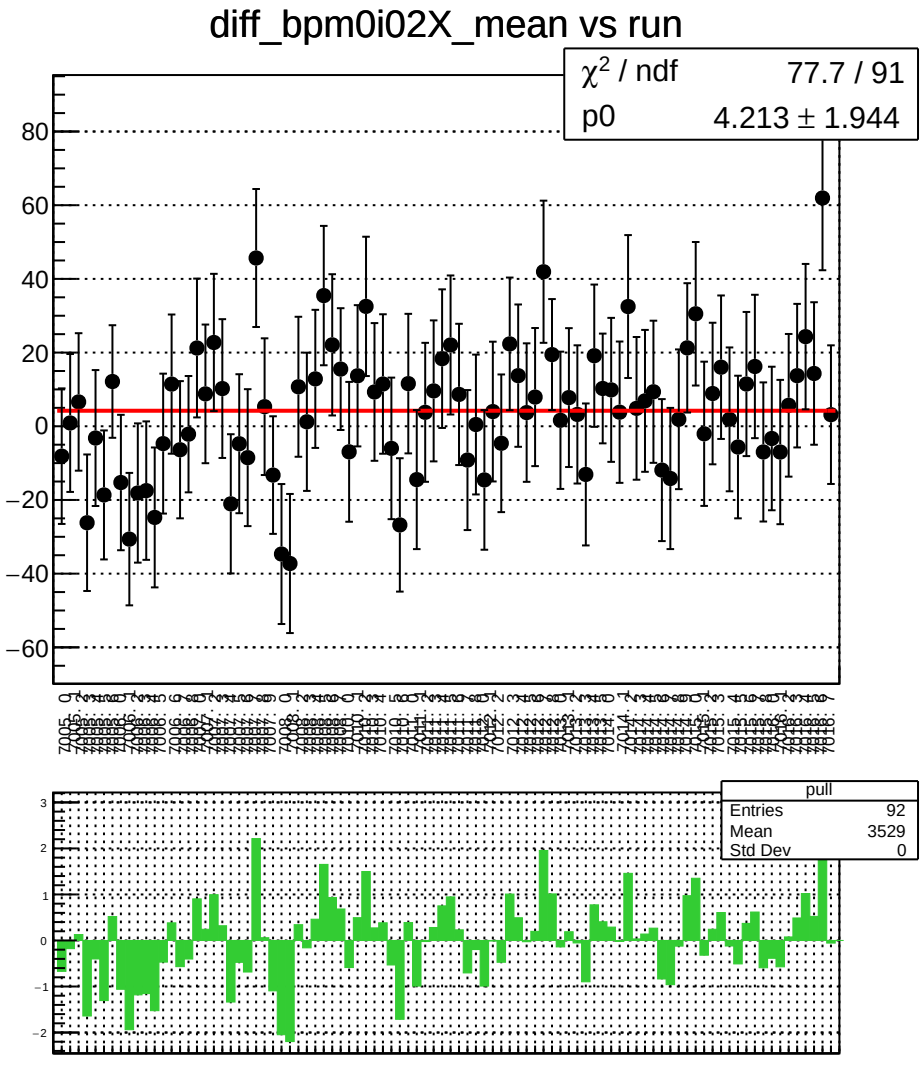

pull1D
Entries 92
Mean 0.01168
Std Dev 0.888

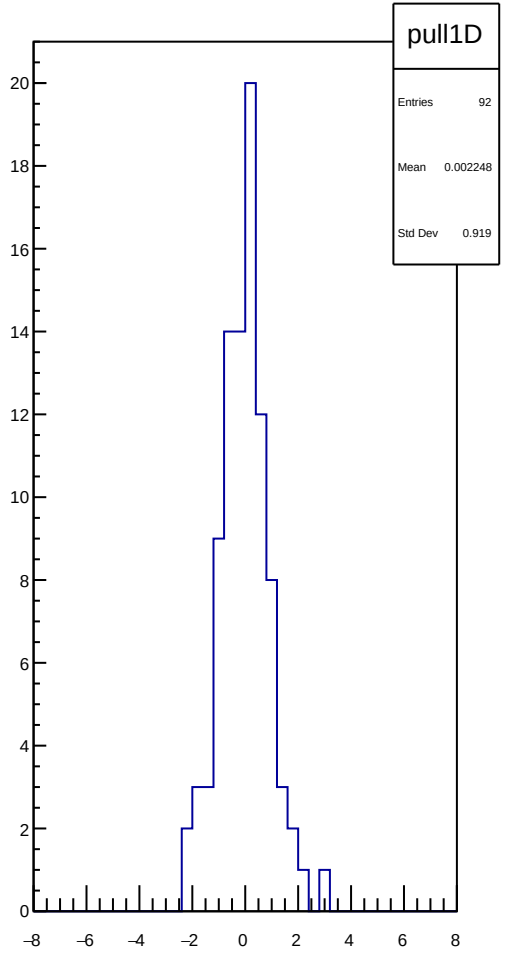

diff_bpm2i02X_rms vs run
χ² / ndf 5323 / 91
p0 1137 ± 0.8697
1250
1200
1150
1100
1050
1000
950
900
850
800

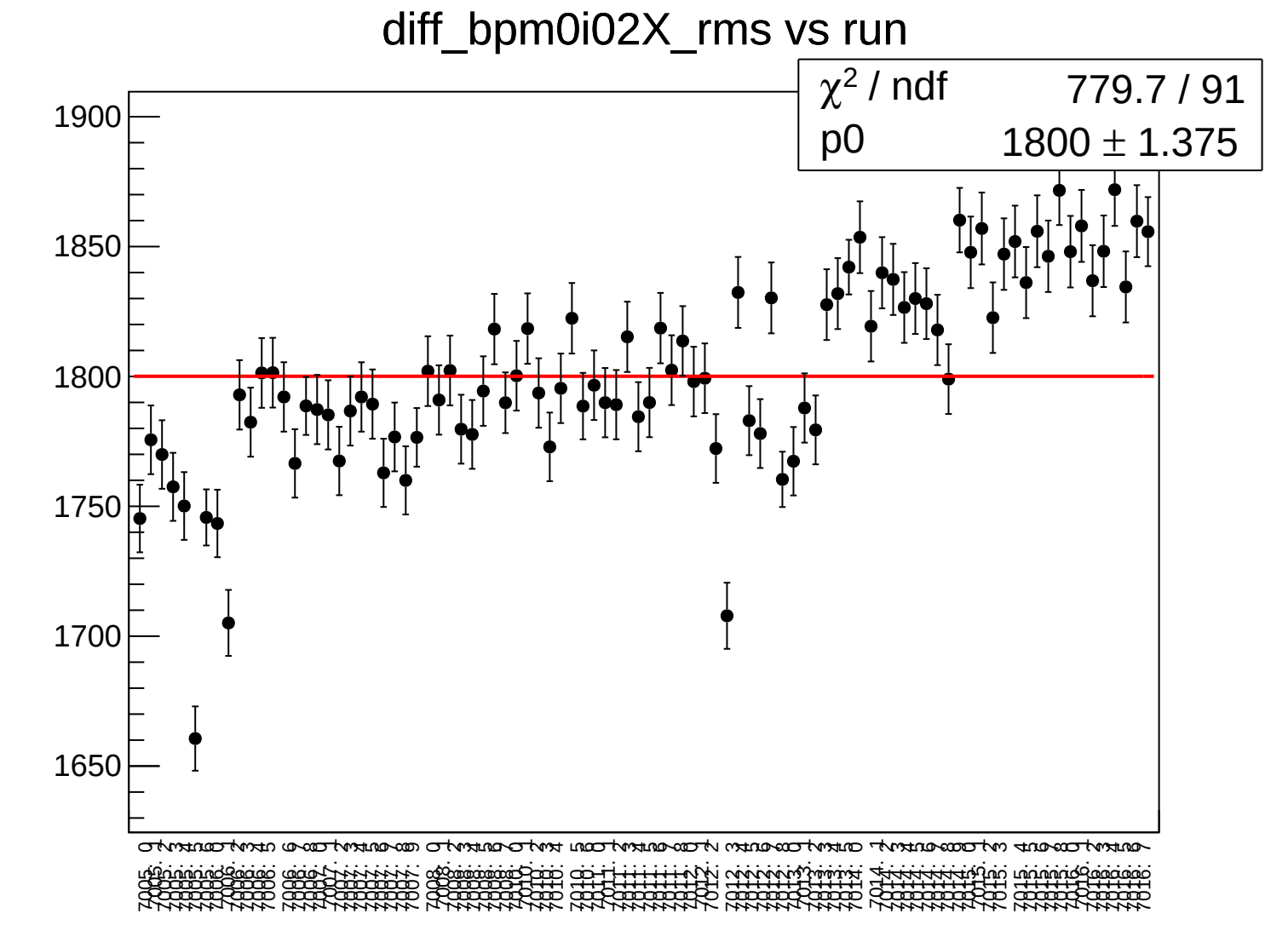

diff_bpm2i02Y_mean vs run
χ² / ndf 67.19 / 91
p0 18.2 ± 1.254
pull
Entries 92
Mean −168.4
Std Dev 0

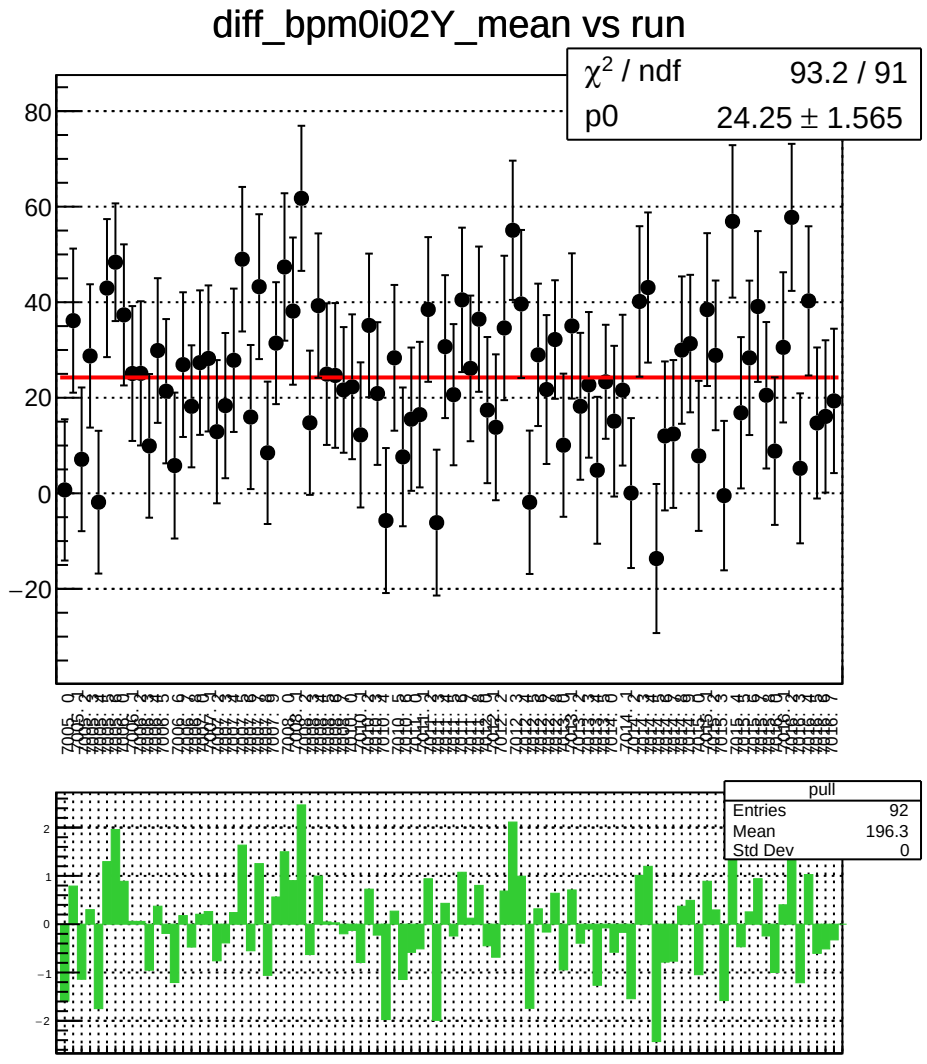

pull1D
Entries 92
Mean −0.006839
Std Dev 0.8545

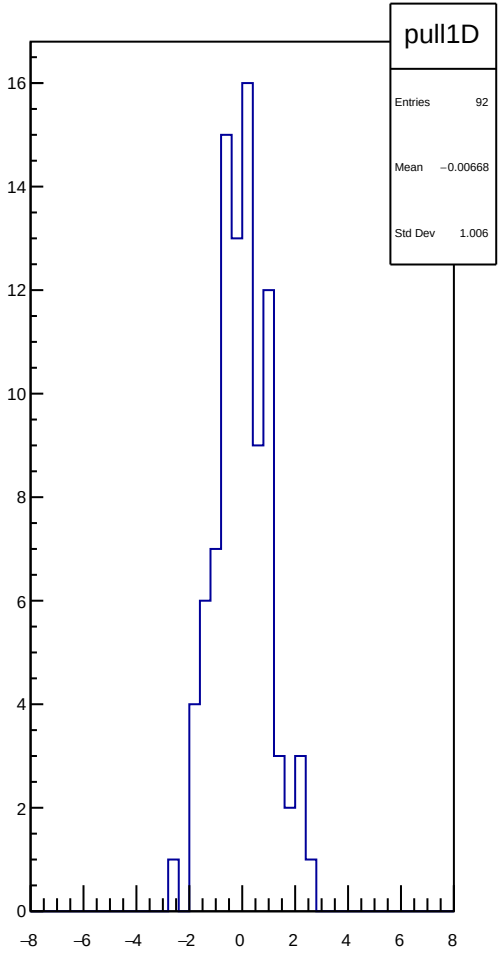

diff_bpm2i02Y_rms vs run
χ² / ndf 4720 / 91
p0 1160 ± 0.8868
1300
1250
1200
1150
1100
1050
1000
950
900
850

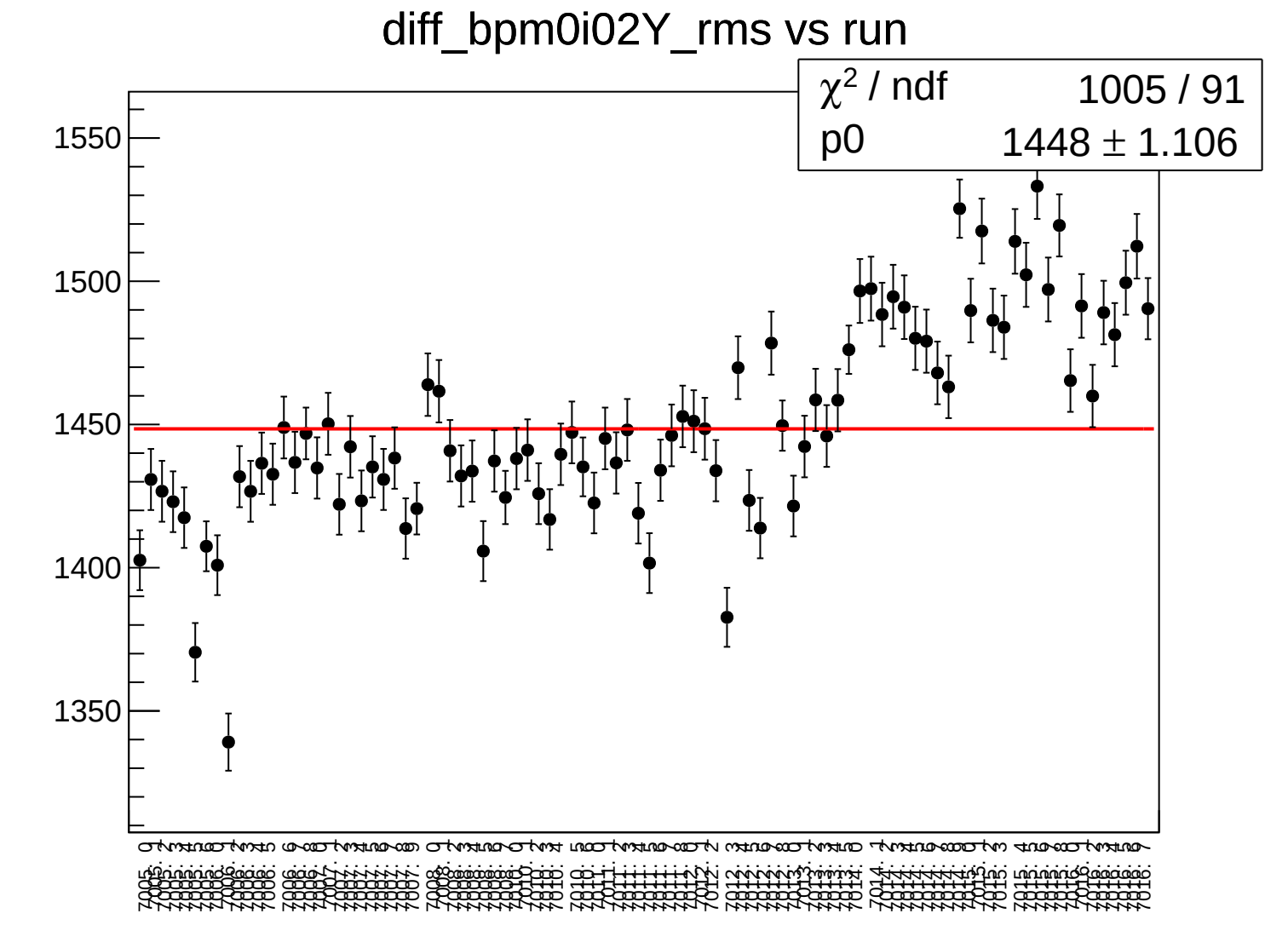

diff_bpm0i02X_mean vs run
χ² / ndf 77.7 / 91
p0 4.213 ± 1.944
pull
Entries 92
Mean 3529
Std Dev 0

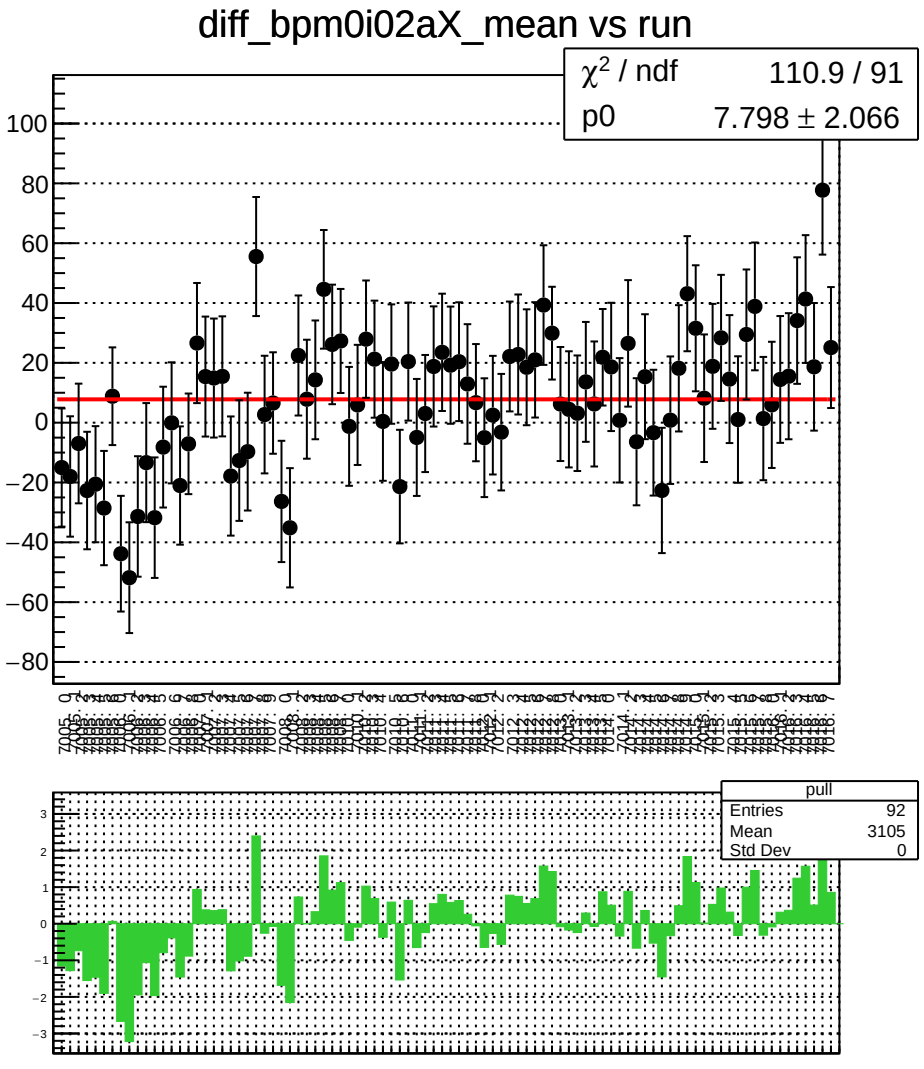

pull1D
Entries 92
Mean 0.002248
Std Dev 0.919

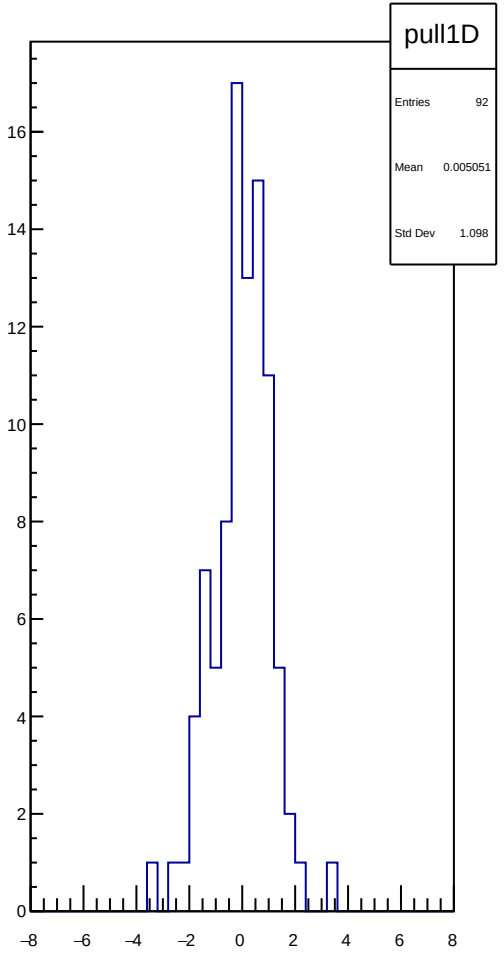

diff_bpm0i02X_rms vs run
$\chi^2$ / ndf 779.7 / 91
p0 1800 ± 1.375
1900
1850
1800
1750
1700
1650

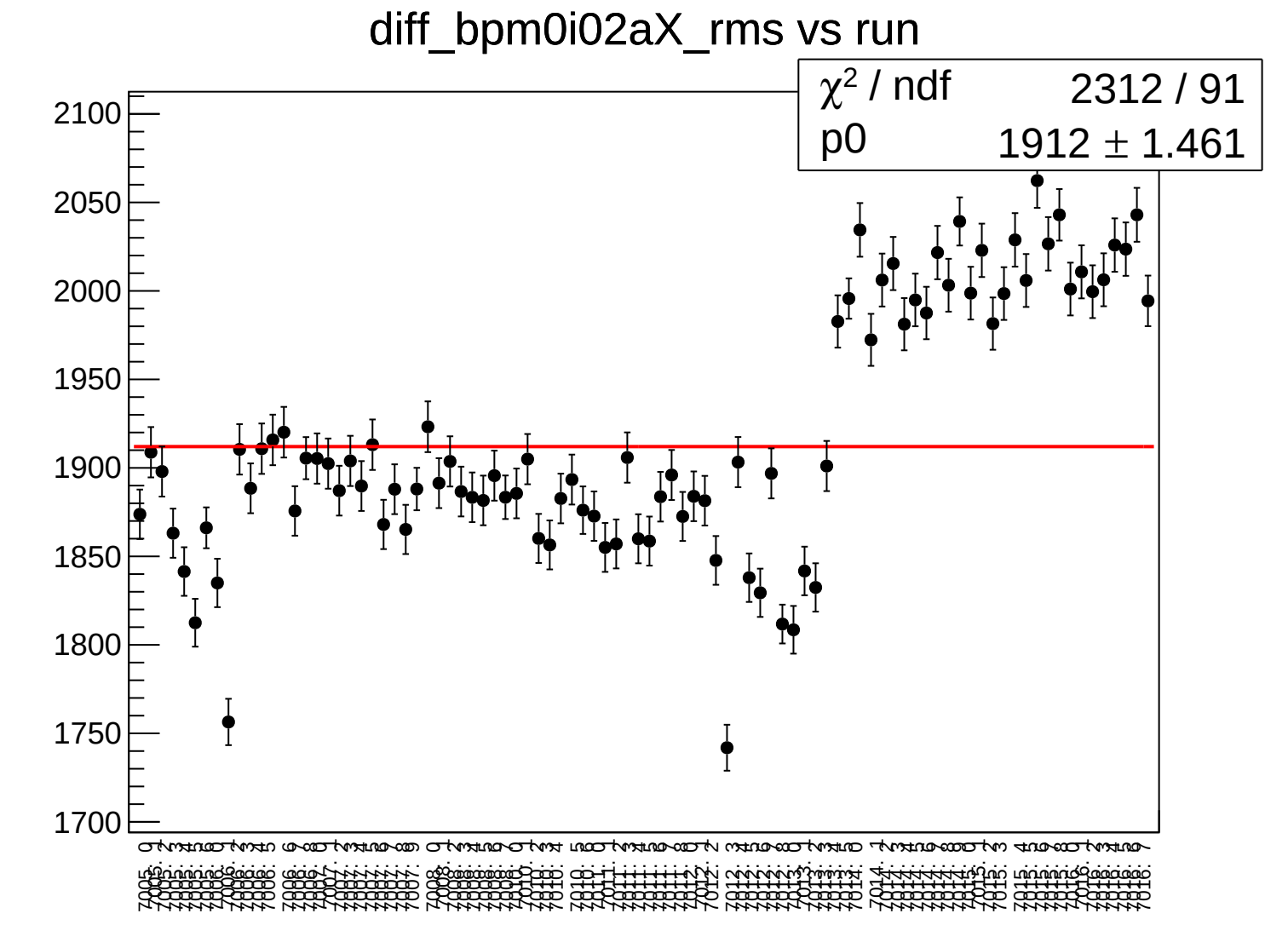

diff_bpm0i02Y_mean vs run
$\chi^2$ / ndf 93.2 / 91
p0 24.25 ± 1.565
pull
Entries 92
Mean 196.3
Std Dev 0

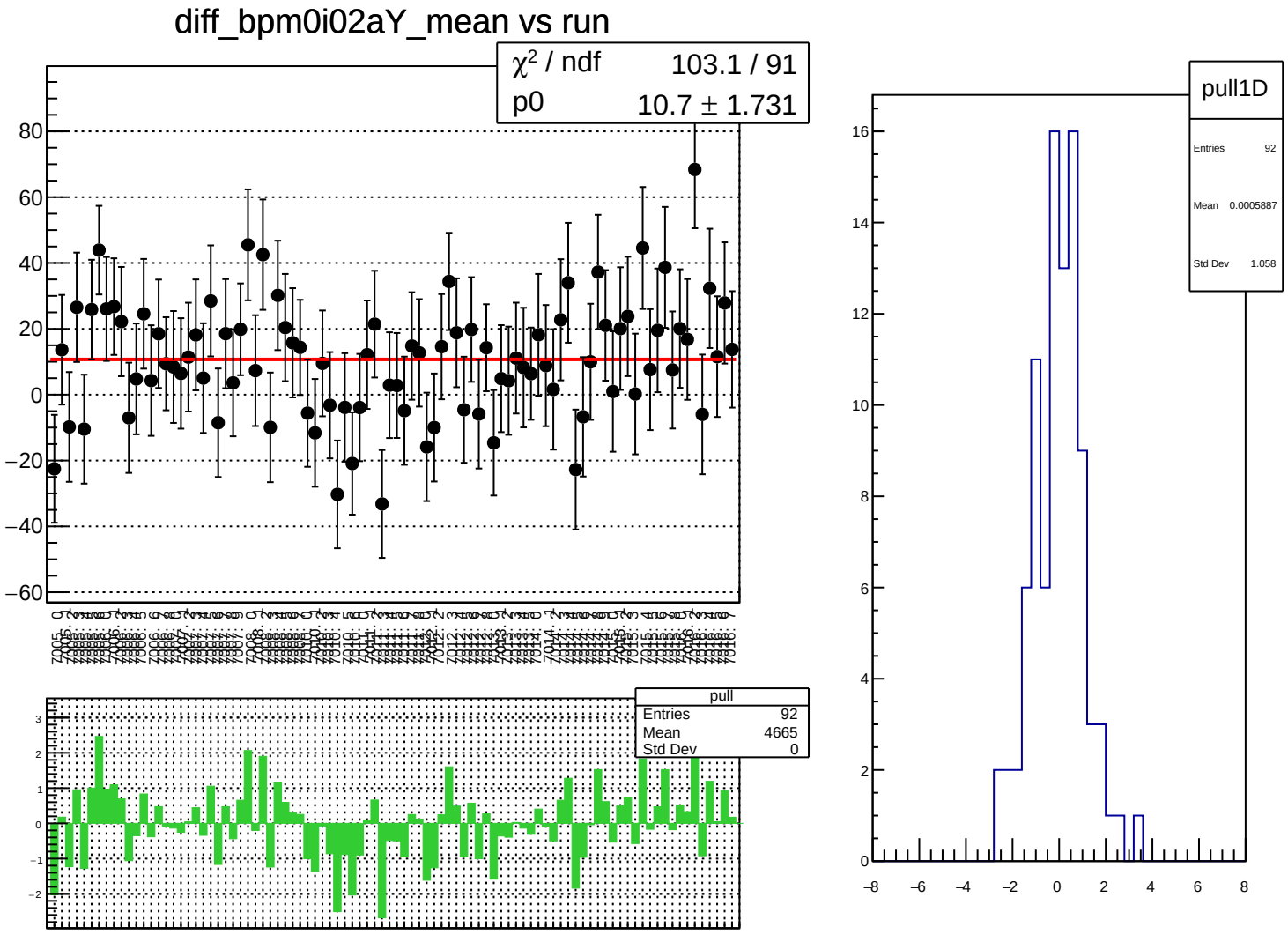

pull1D
Entries 92
Mean −0.00668
Std Dev 1.006

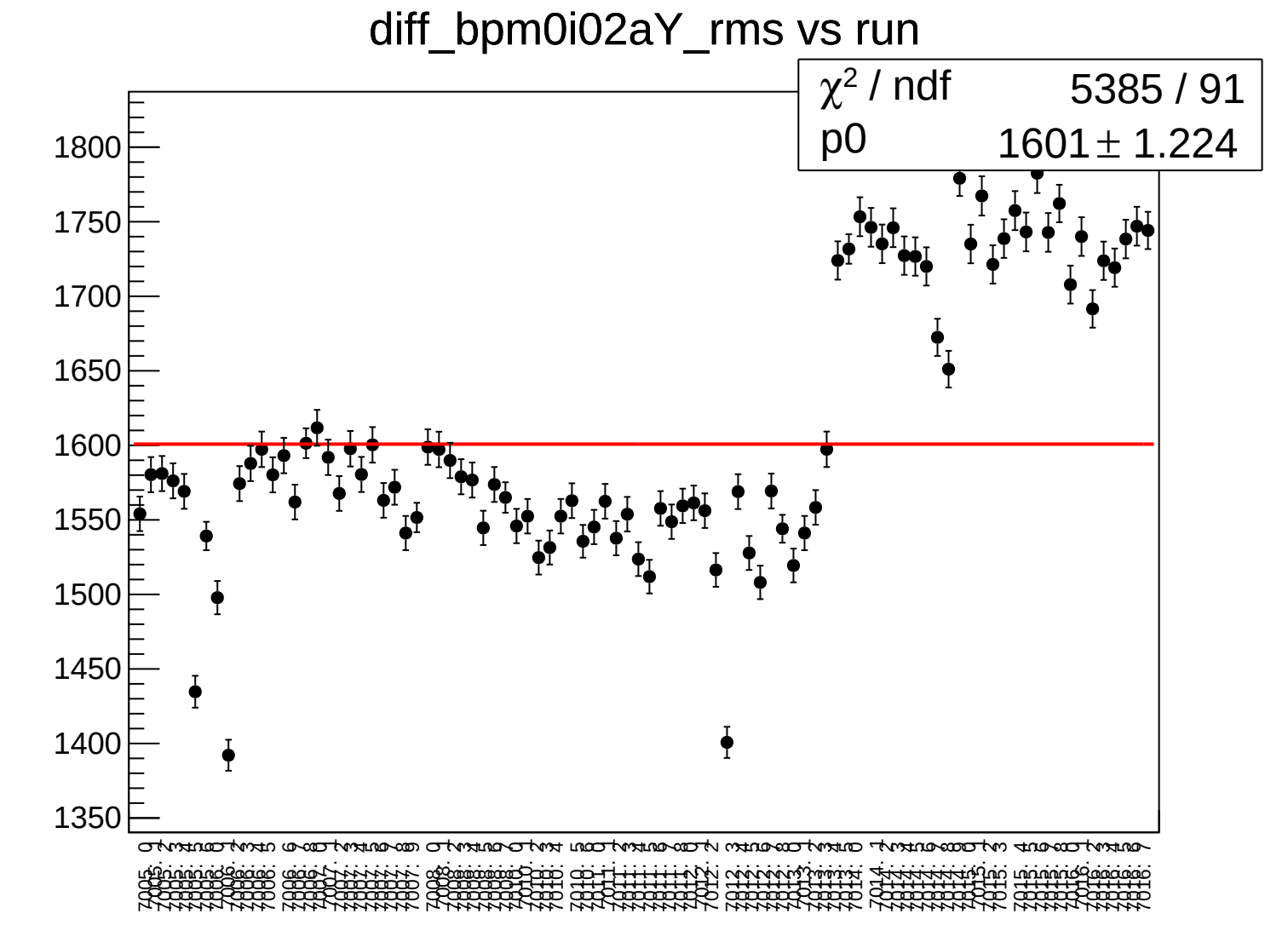

diff_bpm0i02Y_rms vs run
$\chi^2$ / ndf 1005 / 91
p0 1448 ± 1.106
1550
1500
1450
1400
1350

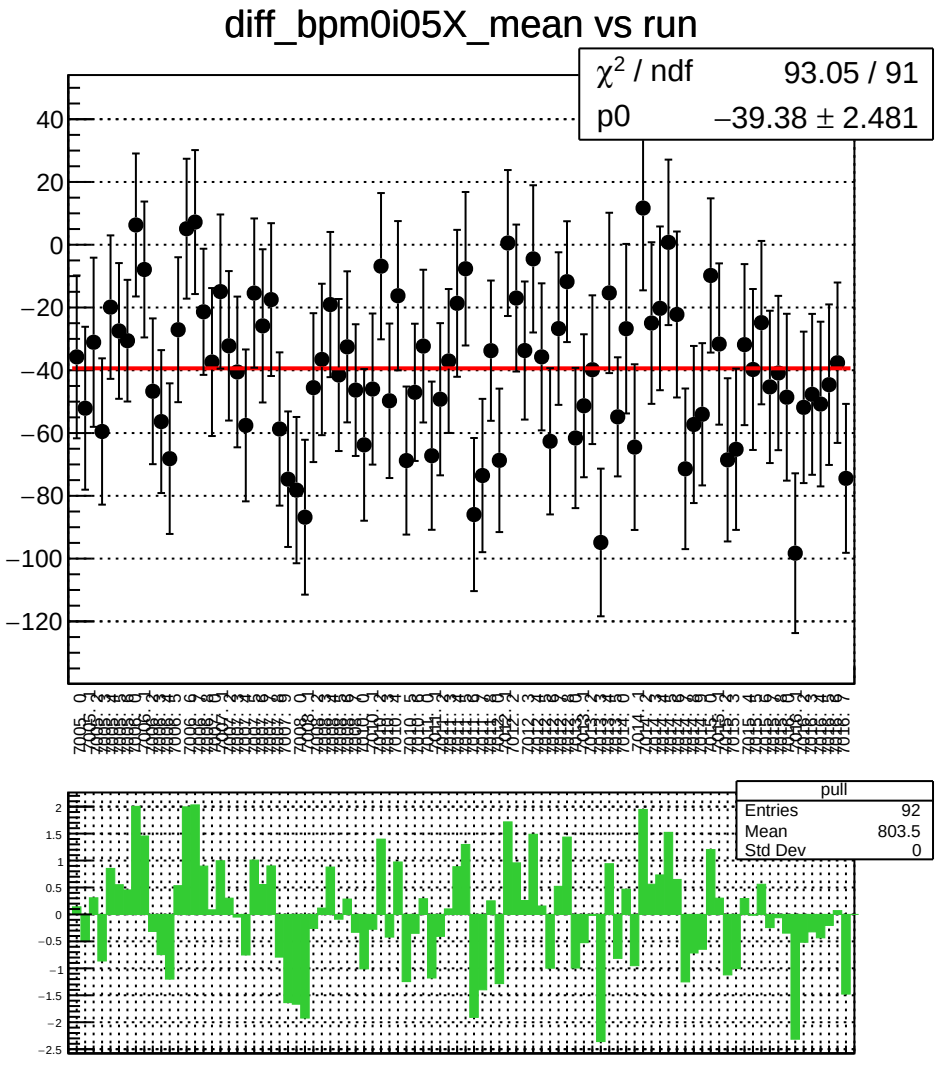

diff_bpm0i02aX_mean vs run
χ² / ndf 110.9 / 91
p0 7.798 ± 2.066
pull
Entries 92
Mean 3105
Std Dev 0

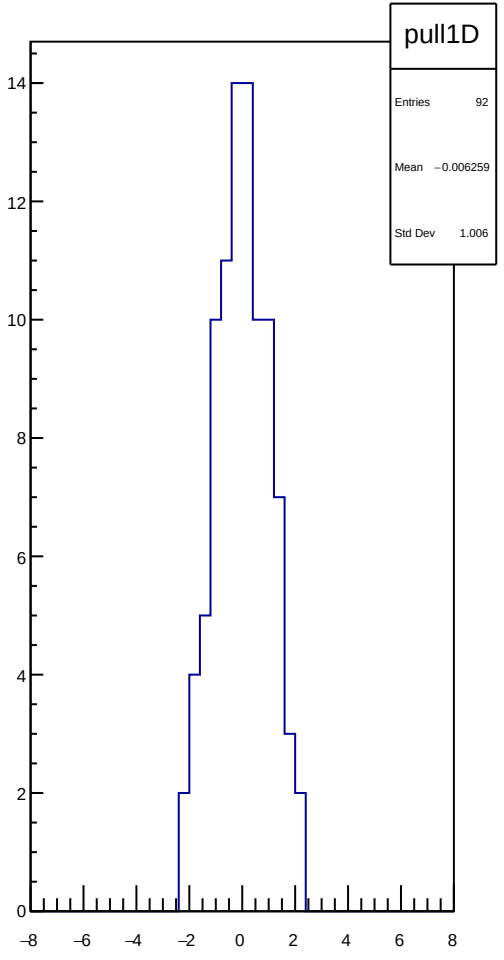

pull1D
Entries 92
Mean 0.005051
Std Dev 1.098

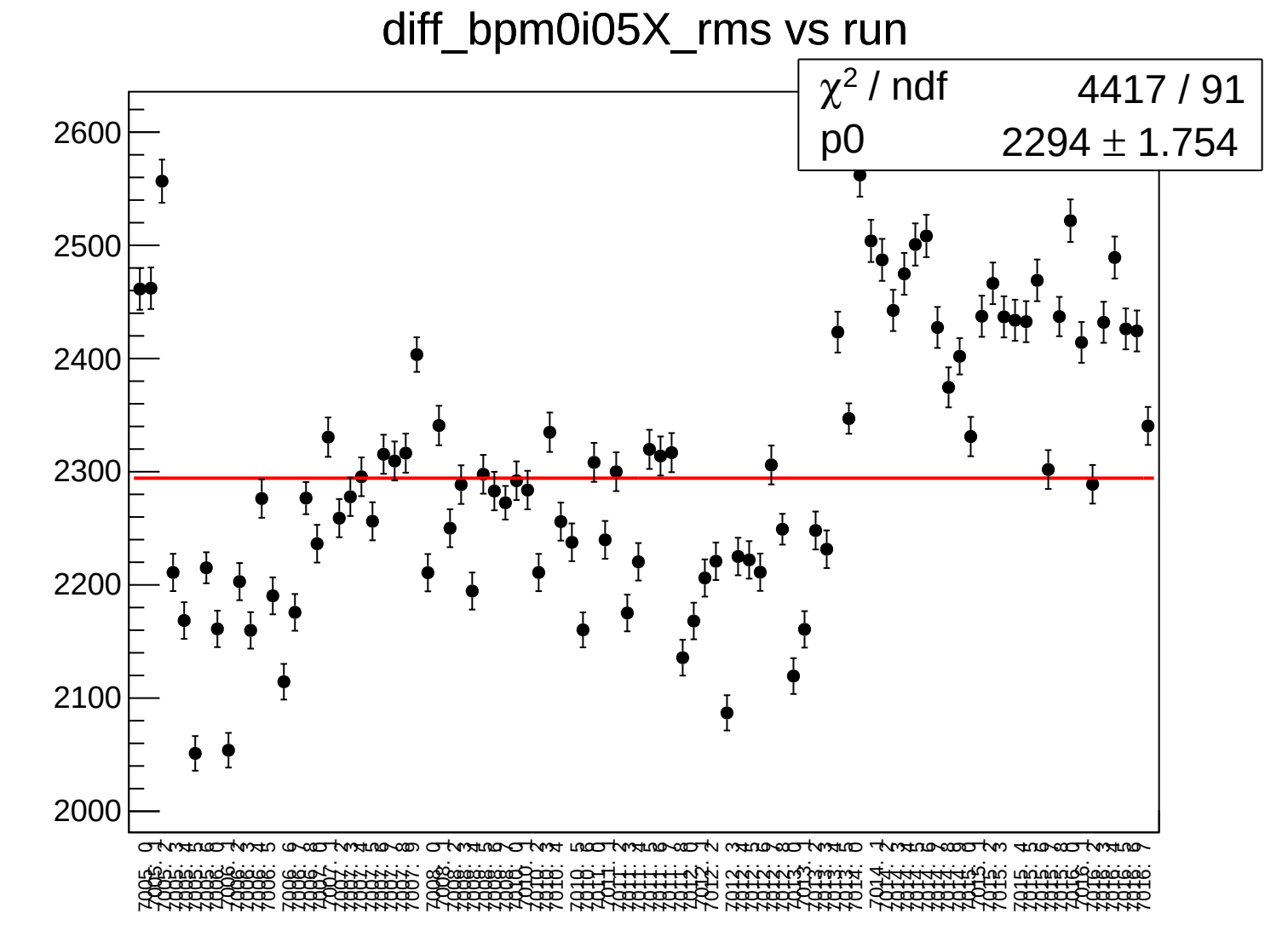

diff_bpm0i02aX_rms vs run
χ² / ndf 2312 / 91
p0 1912 ± 1.461
2100
2050
2000
1950
1900
1850
1800
1750
1700

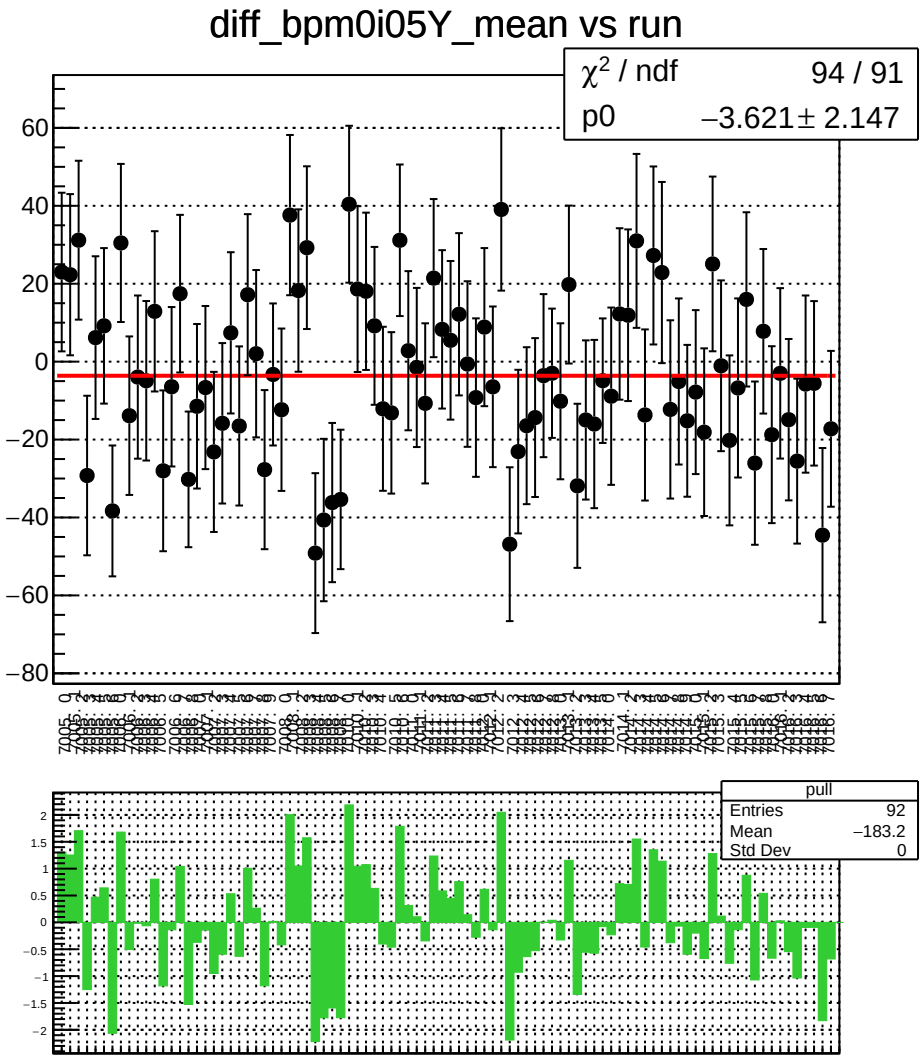

diff_bpm0i02aY_mean vs run
χ² / ndf 103.1 / 91
p0 10.7 ± 1.731
pull
Entries 92
Mean 4665
Std Dev 0
pull1D
Entries 92
Mean 0.0005887
Std Dev 1.058

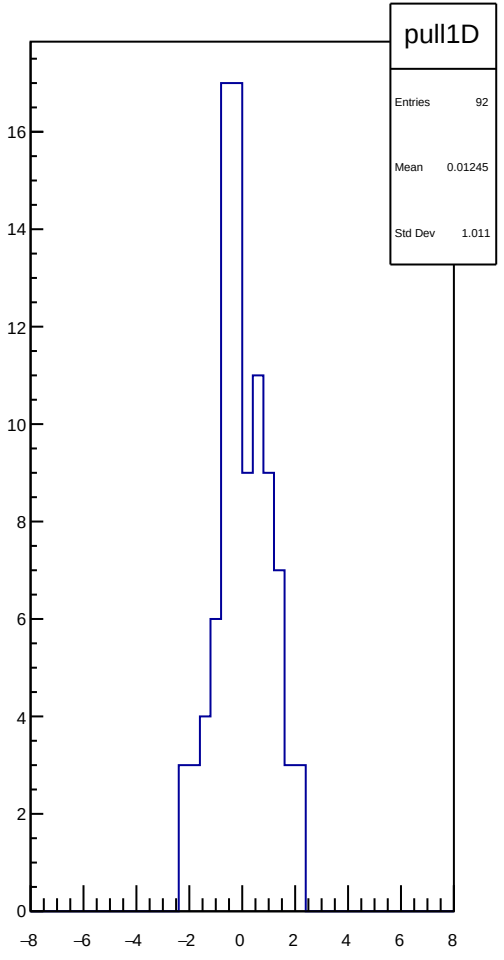

diff_bpm0i02aY_rms vs run
χ² / ndf 5385 / 91
p0 1601 ± 1.224
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

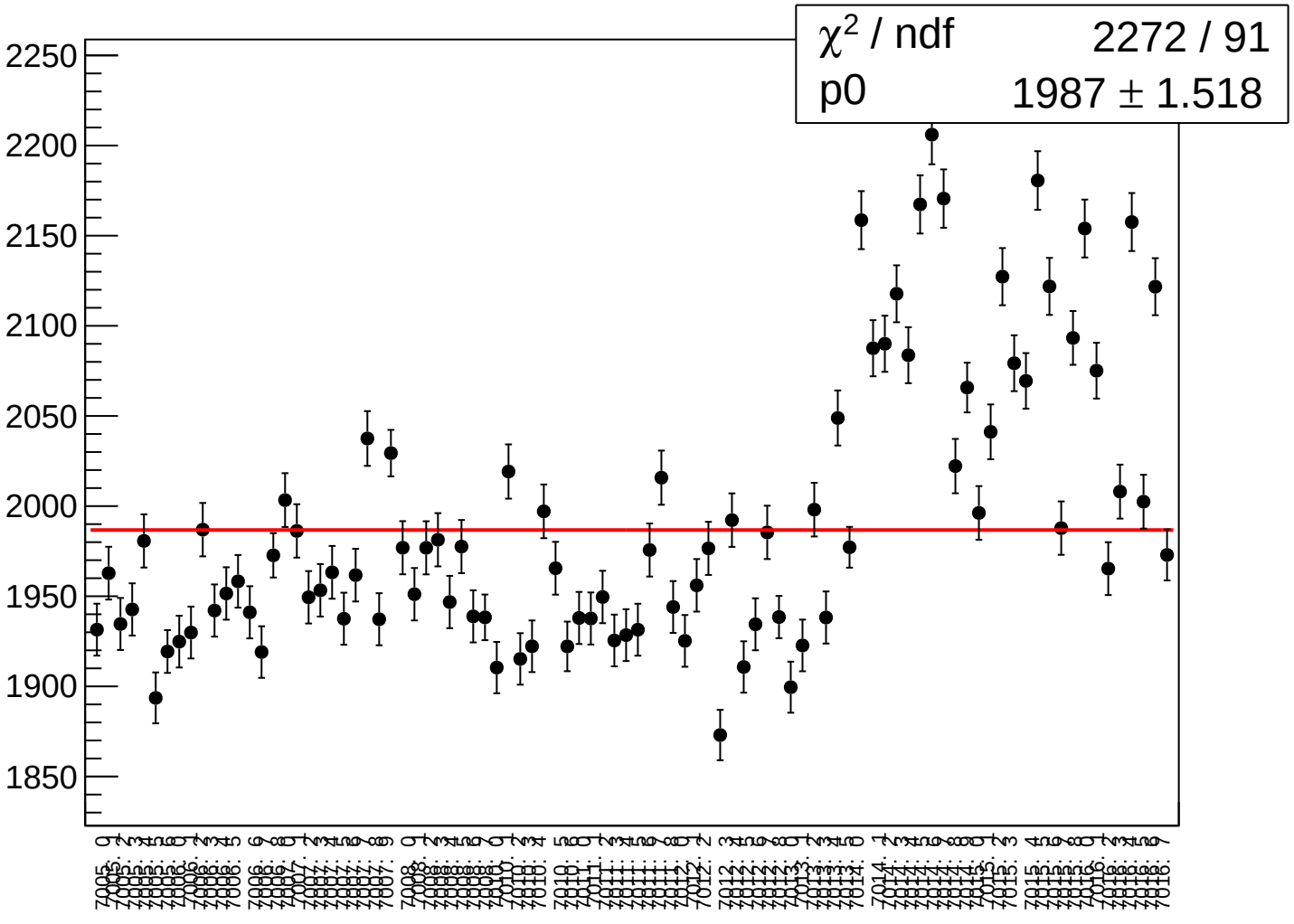

diff_bpm0i05X_mean vs run
χ² / ndf 93.05 / 91
p0 −39.38 ± 2.481
pull
Entries 92
Mean 803.5
Std Dev 0

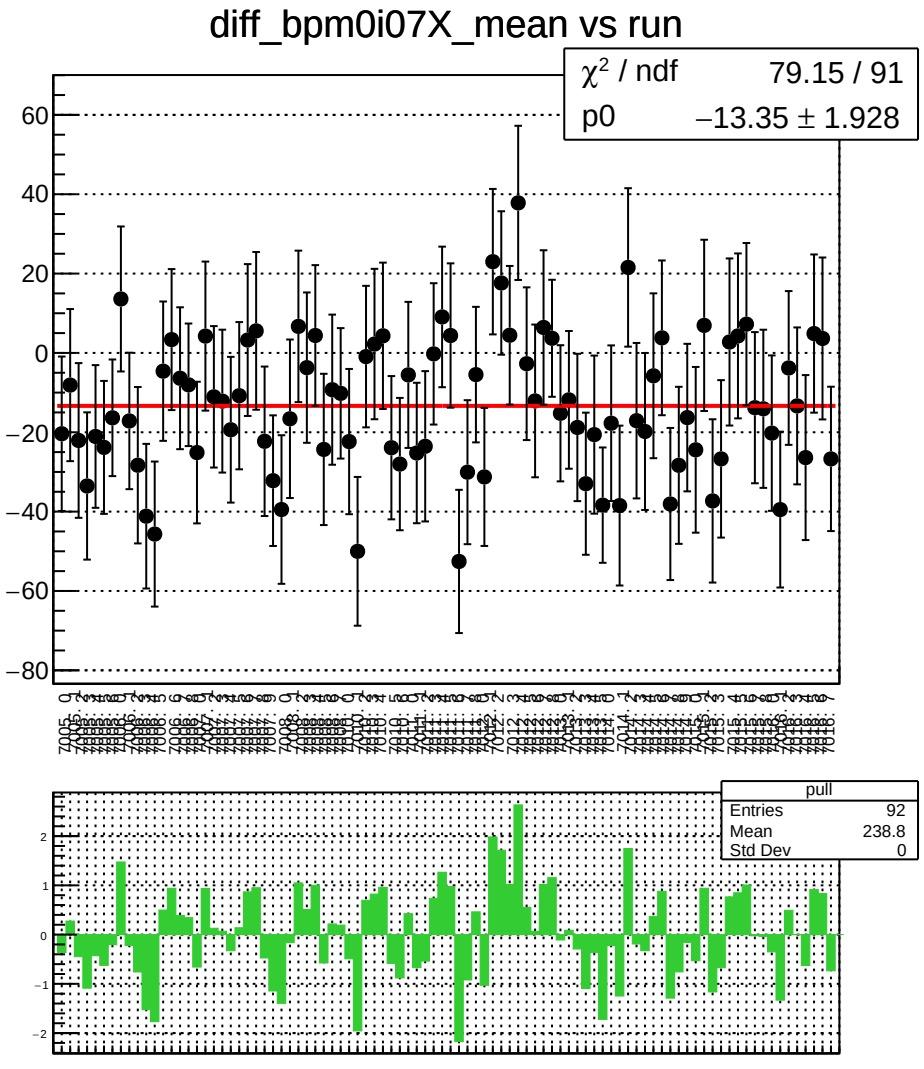

pull1D
Entries 92
Mean −0.006259
Std Dev 1.006

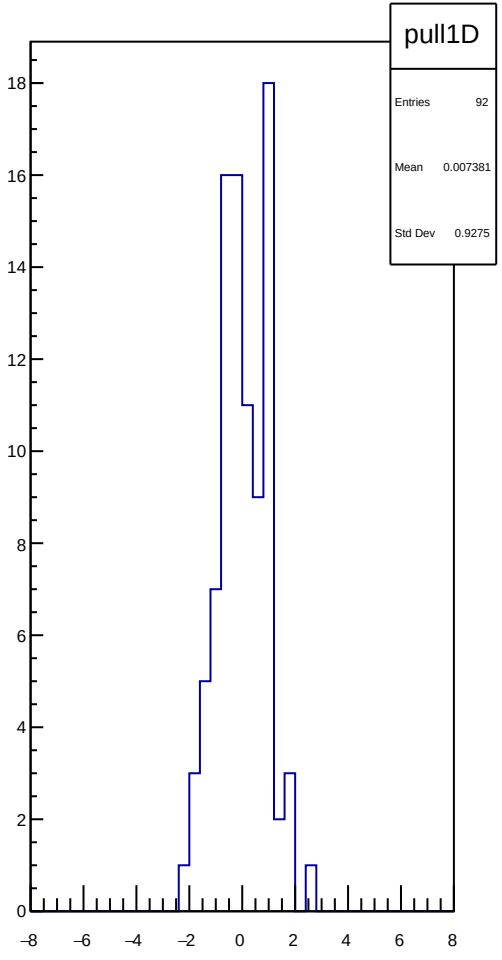

diff_bpm0i05X_rms vs run
χ² / ndf 4417 / 91
p0 2294 ± 1.754
2600
2500
2400
2300
2200
2100
2000

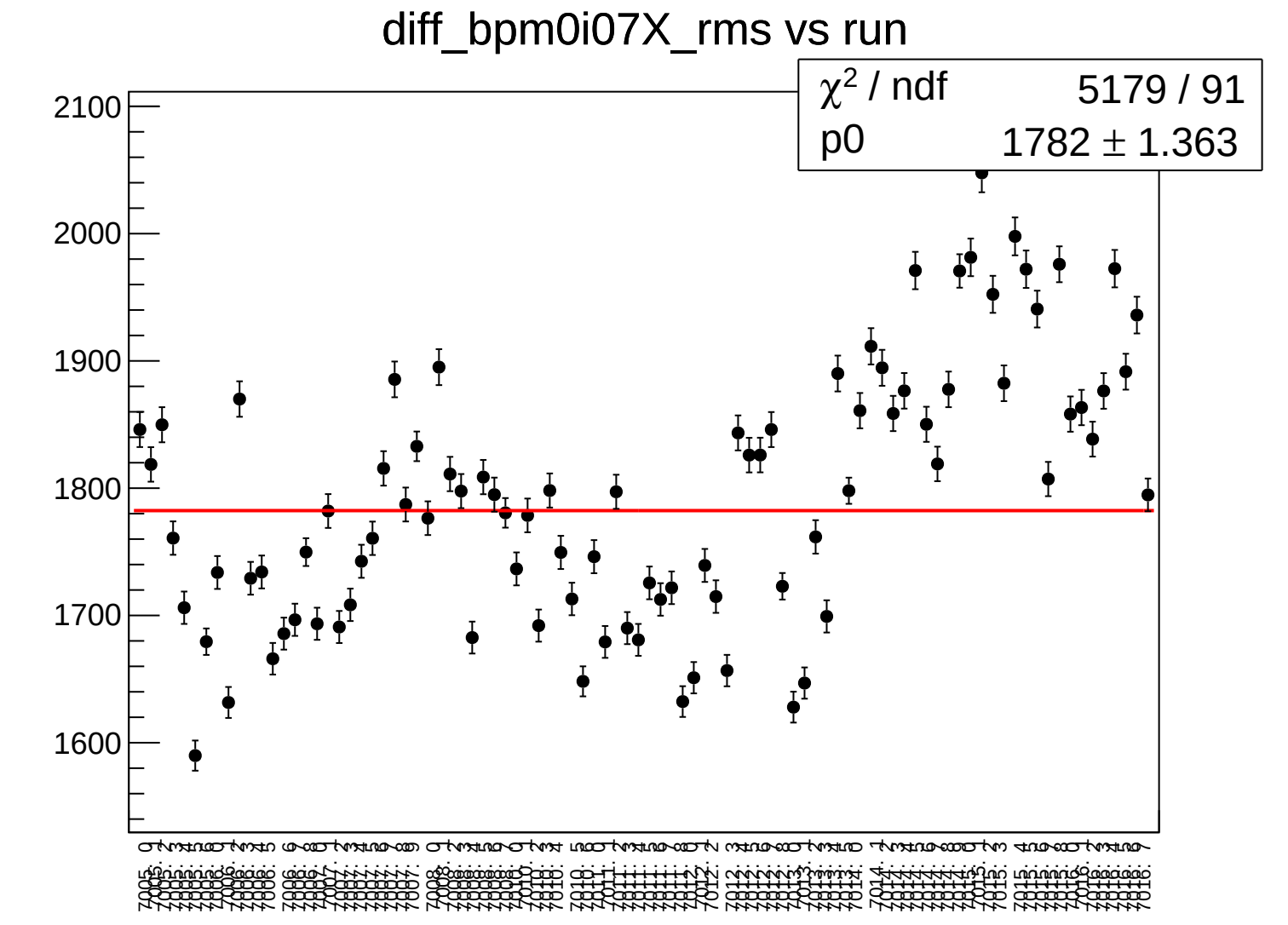

diff_bpm0i05Y_mean vs run
χ² / ndf 94 / 91
p0 −3.621± 2.147
pull
Entries 92
Mean −183.2
Std Dev 0

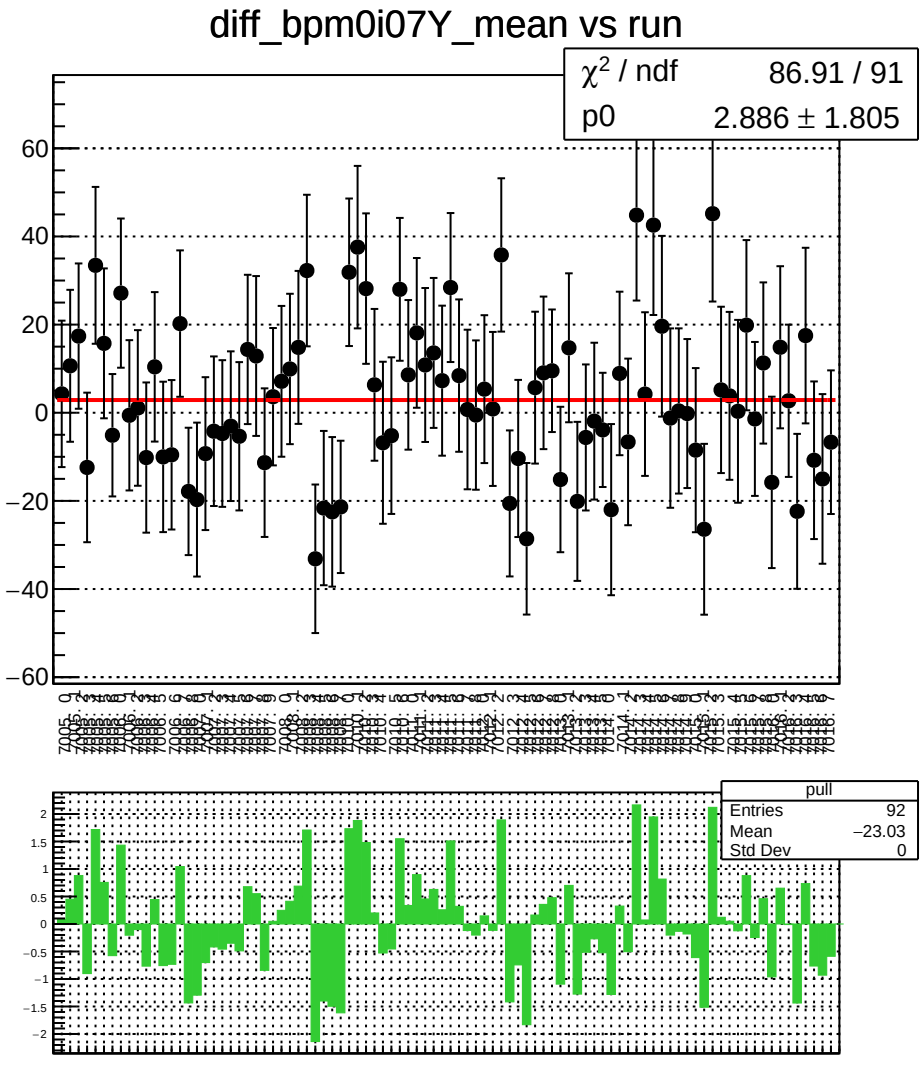

pull1D
Entries 92
Mean 0.01245
Std Dev 1.011

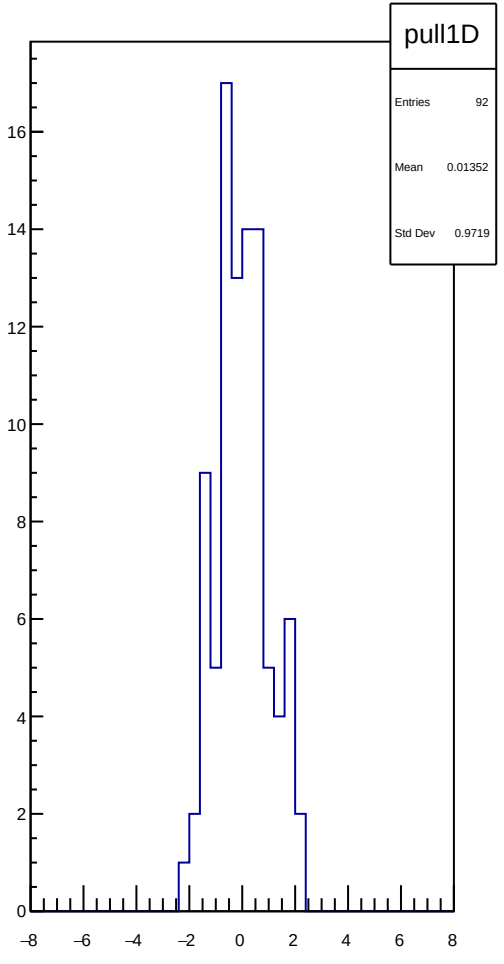

diff_bpm0i05Y_rms vs run
χ² / ndf 2272 / 91
p0 1987 ± 1.518
2250
2200
2150
2100
2050
2000
1950
1900
1850

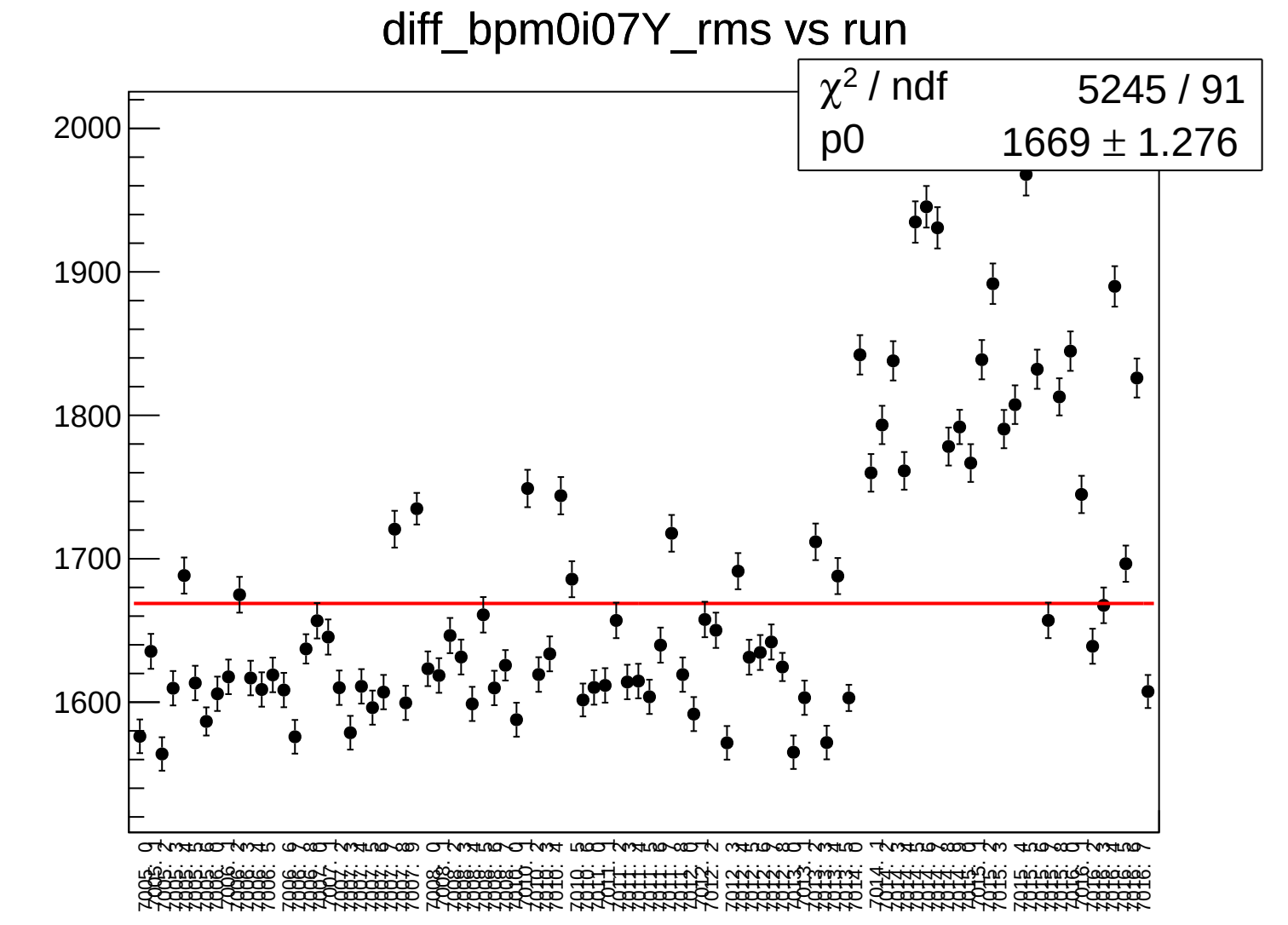

diff_bpm0i07X_mean vs run
χ² / ndf 79.15 / 91
p0 −13.35 ± 1.928
pull
Entries 92
Mean 238.8
Std Dev 0

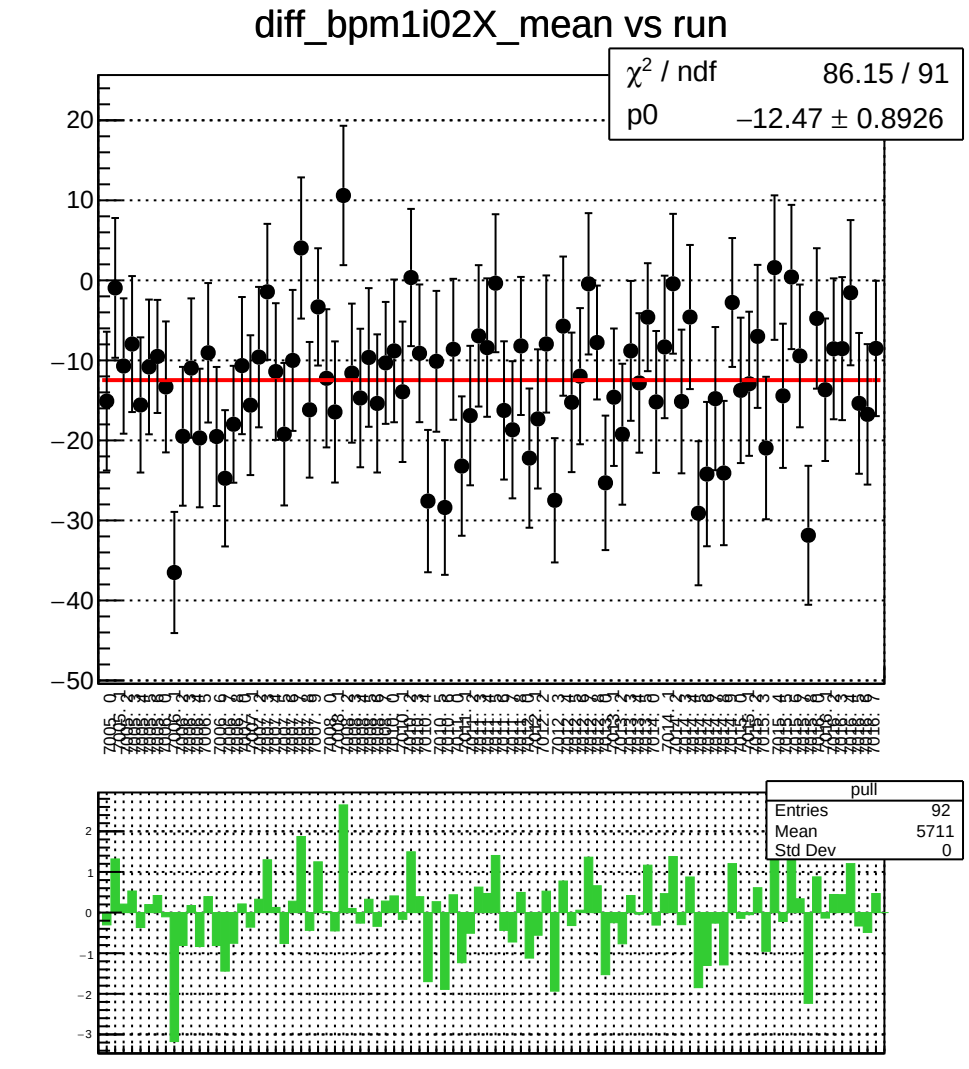

pull1D
Entries 92
Mean 0.007381
Std Dev 0.9275

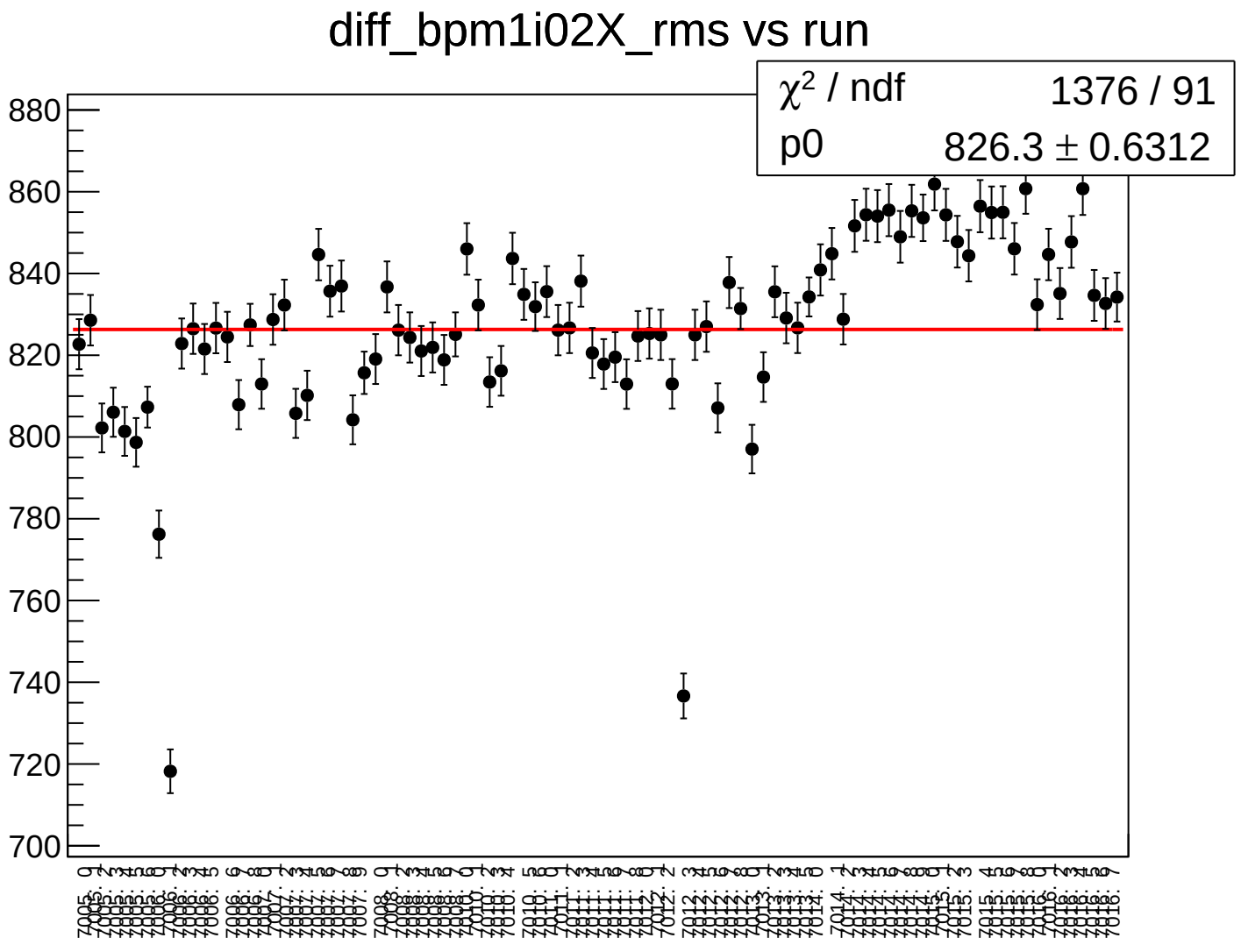

diff_bpm0i07X_rms vs run
$\chi^2$ / ndf 5179 / 91
p0 1782 ± 1.363
2100
2000
1900
1800
1700
1600

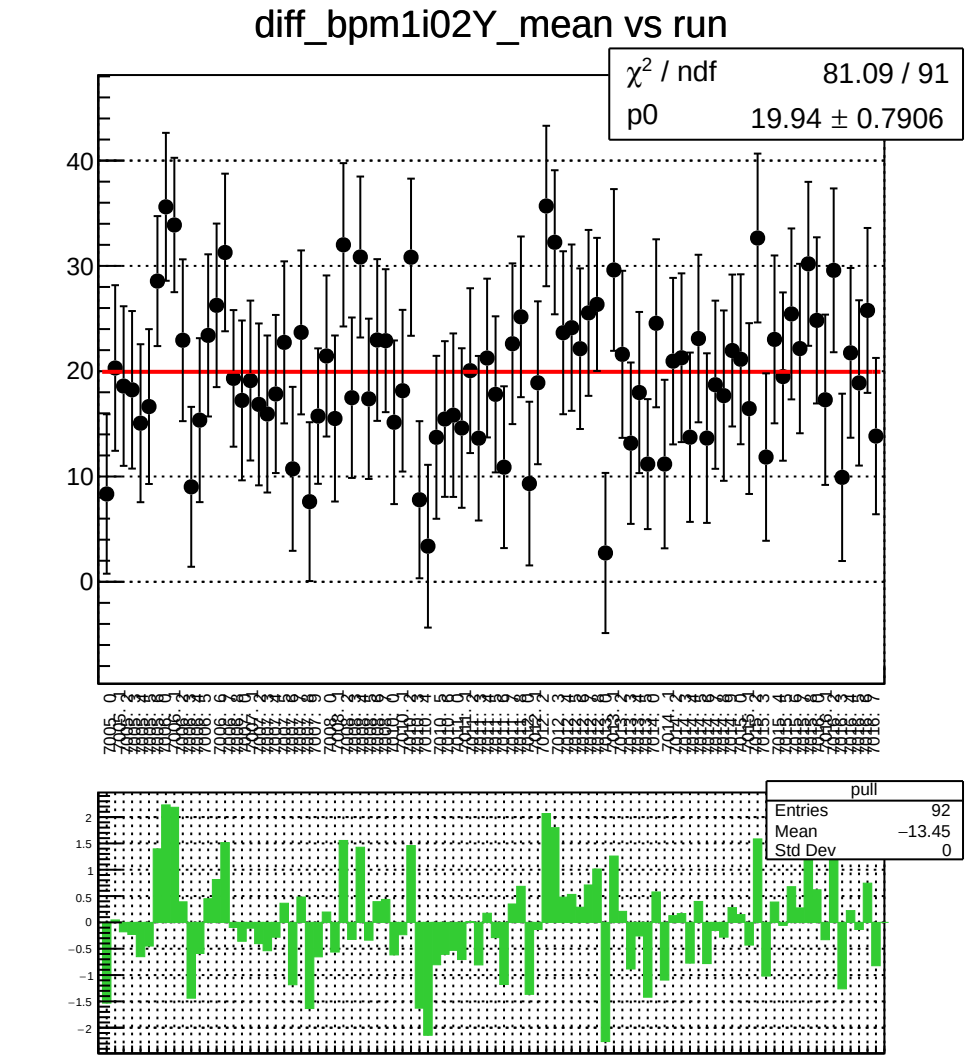

diff_bpm0i07Y_mean vs run
χ² / ndf 86.91 / 91
p0 2.886 ± 1.805
pull
Entries 92
Mean −23.03
Std Dev 0

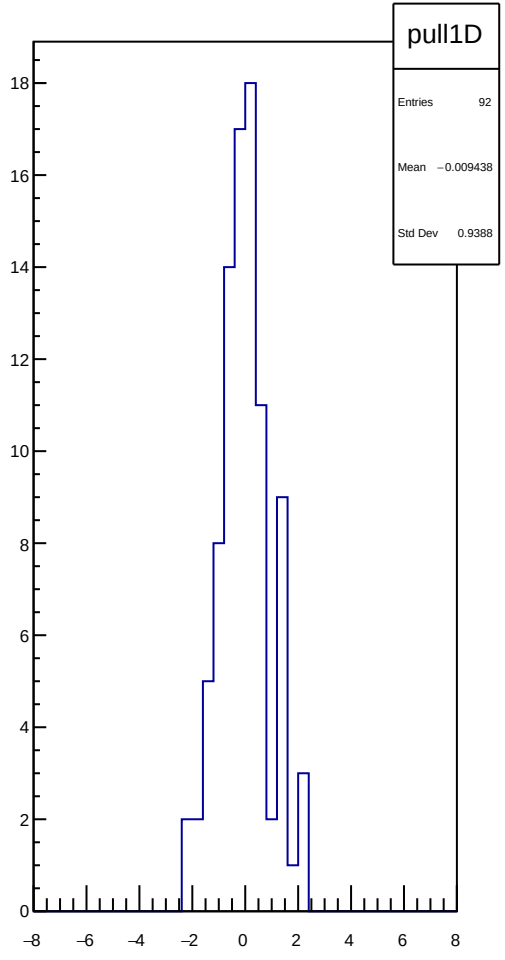

pull1D
Entries 92
Mean 0.01352
Std Dev 0.9719

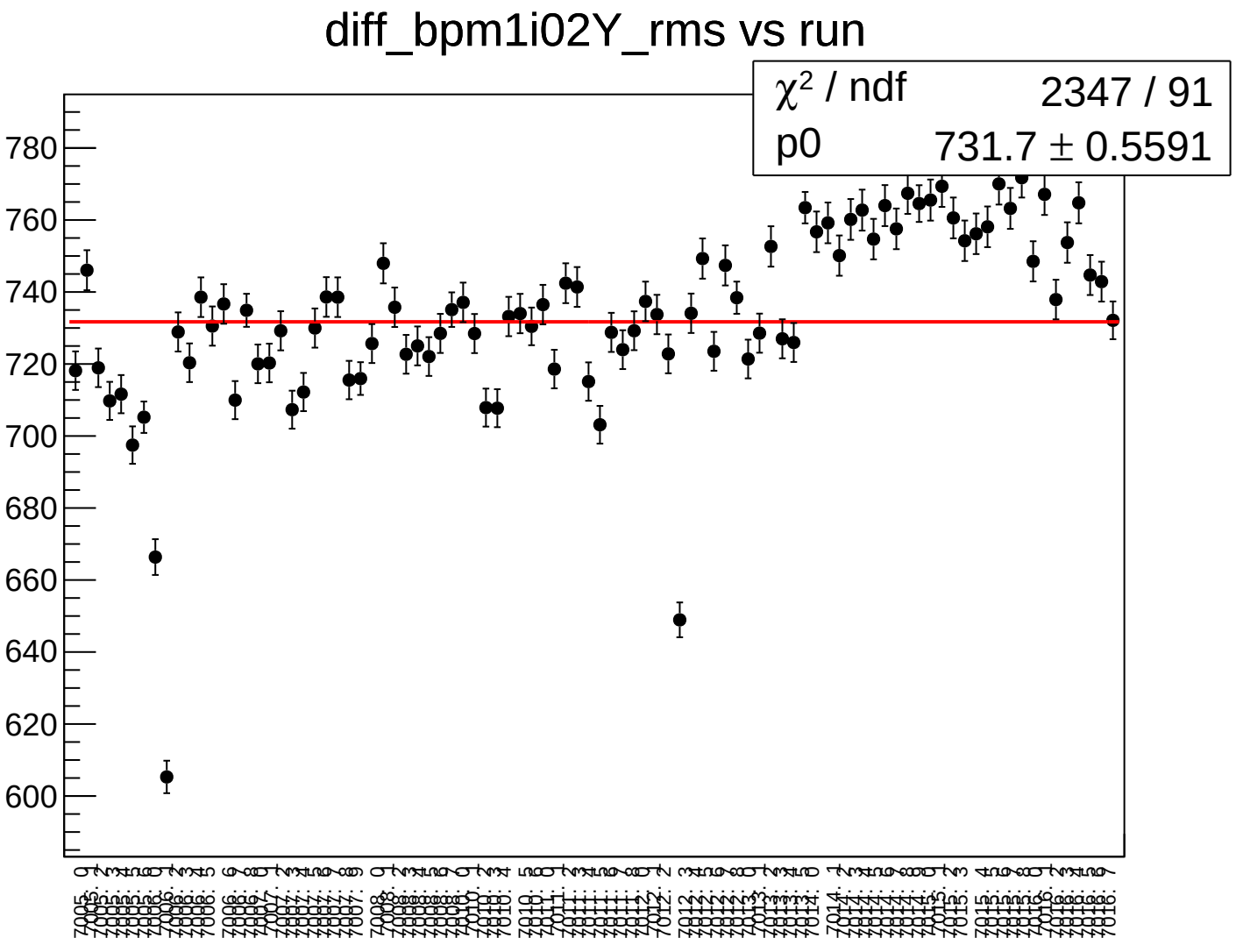

diff_bpm0i07Y_rms vs run
χ² / ndf 5245 / 91
p0 1669 ± 1.276
2000
1900
1800
1700
1600

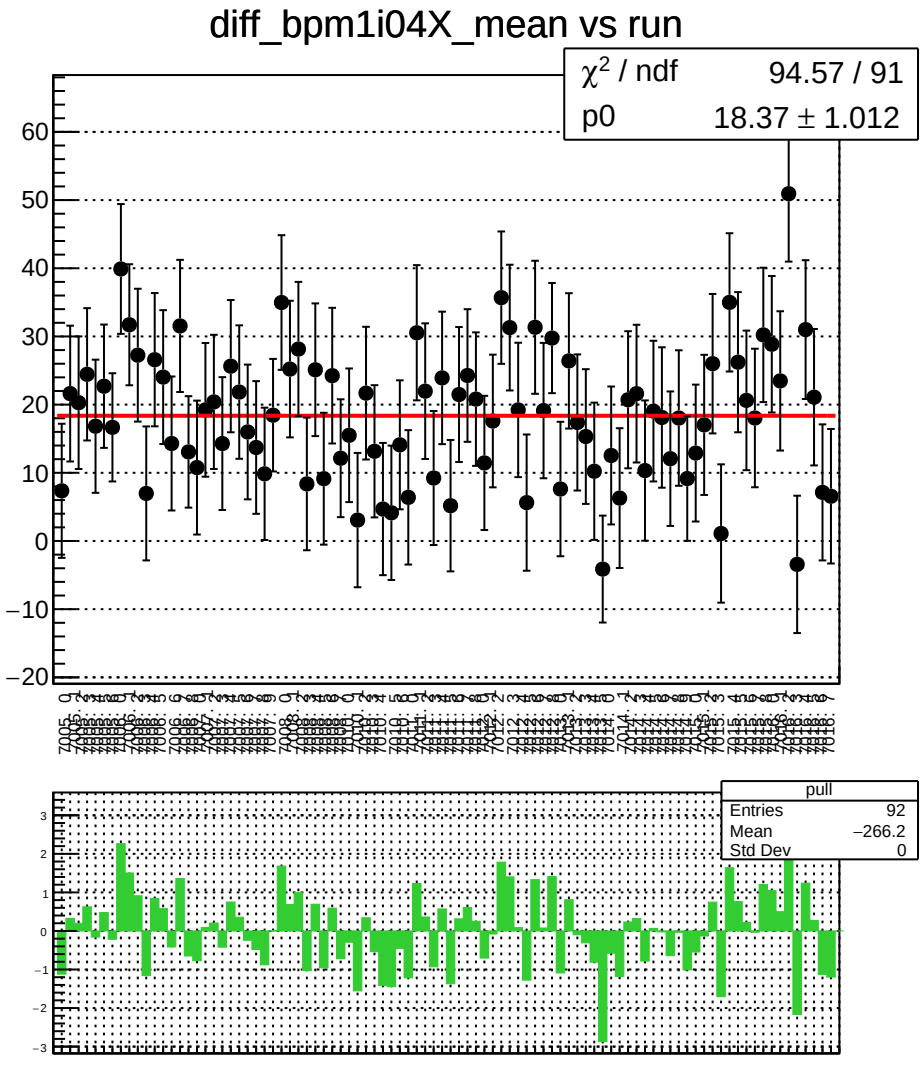

diff_bpm1i02X_mean vs run
χ² / ndf 86.15 / 91
p0 −12.47 ± 0.8926
pull
Entries 92
Mean 5711
Std Dev 0
pull1D
Entries 92
Mean 0.00022
Std Dev 0.9677

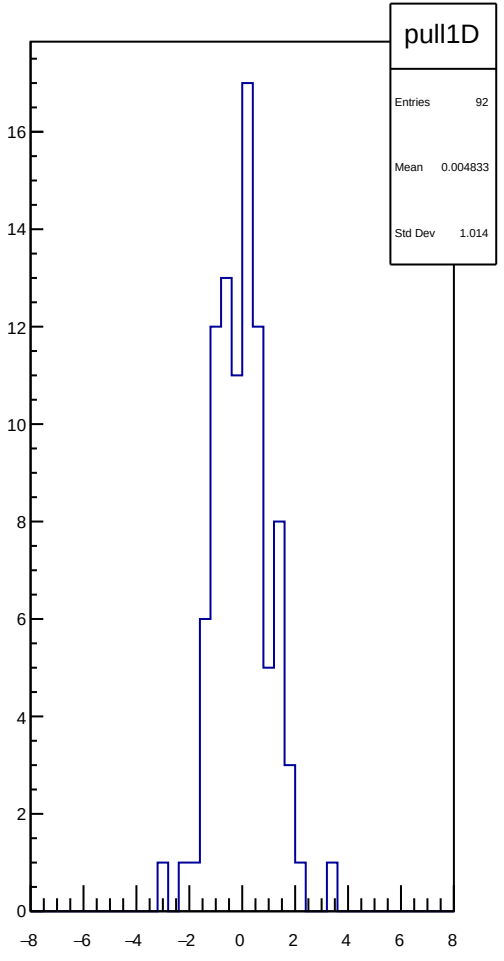

diff_bpm1i02X_rms vs run
χ² / ndf 1376 / 91
p0 826.3 ± 0.6312
880
860
840
820
800
780
760
740
720
700

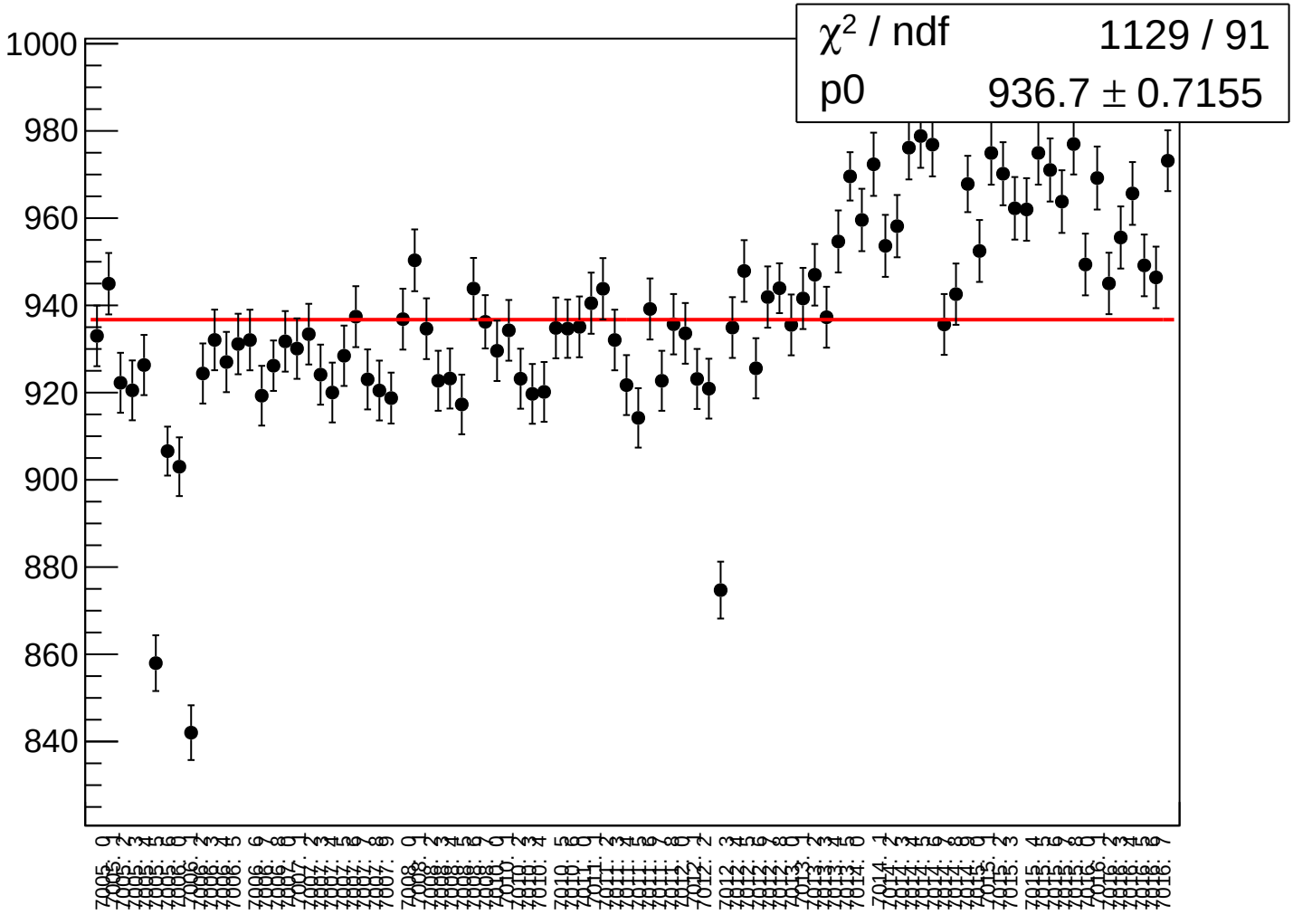

diff_bpm1i02Y_mean vs run
χ² / ndf 81.09 / 91
p0 19.94 ± 0.7906
pull
Entries 92
Mean −13.45
Std Dev 0

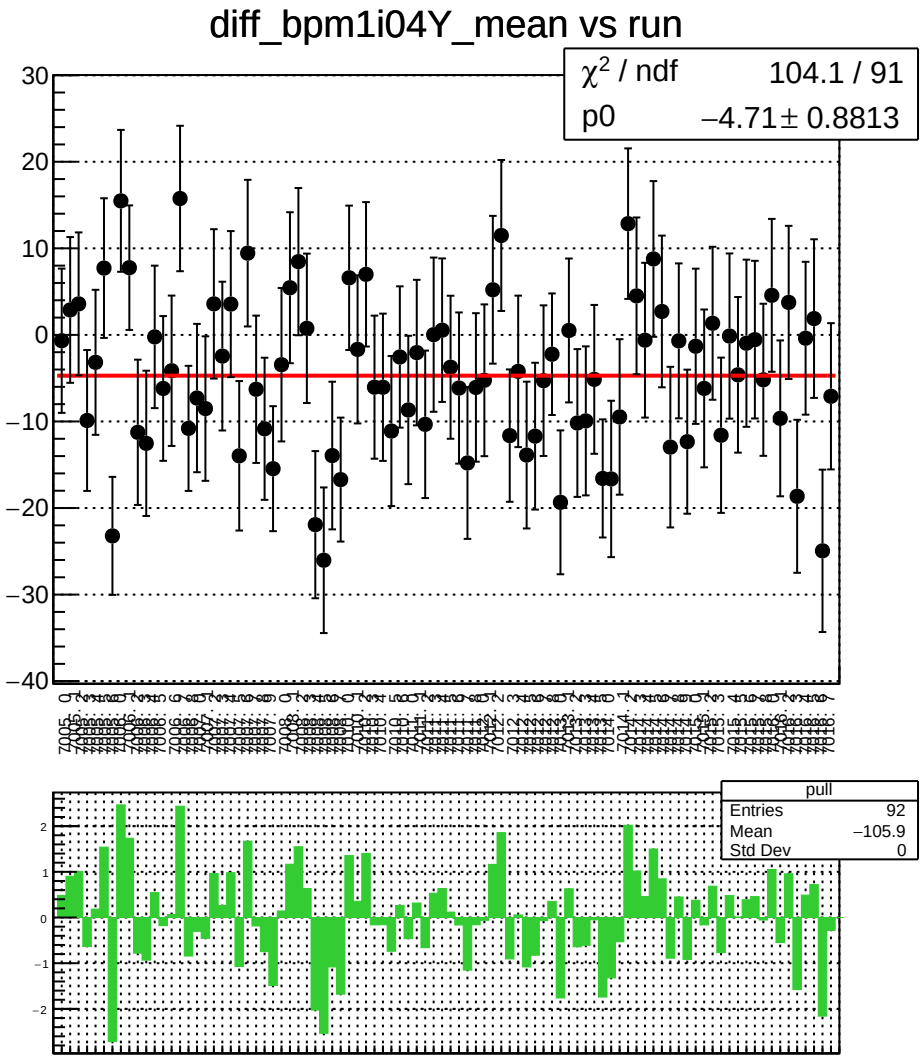

pull1D
Entries 92
Mean −0.009438
Std Dev 0.9388

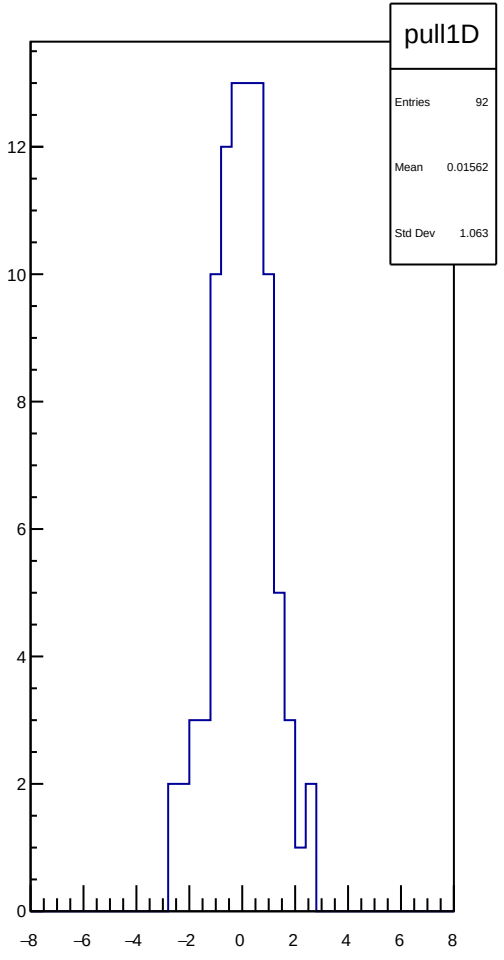

diff_bpm1i02Y_rms vs run
χ² / ndf 2347 / 91
p0 731.7 ± 0.5591
780
760
740
720
700
680
660
640
620
600

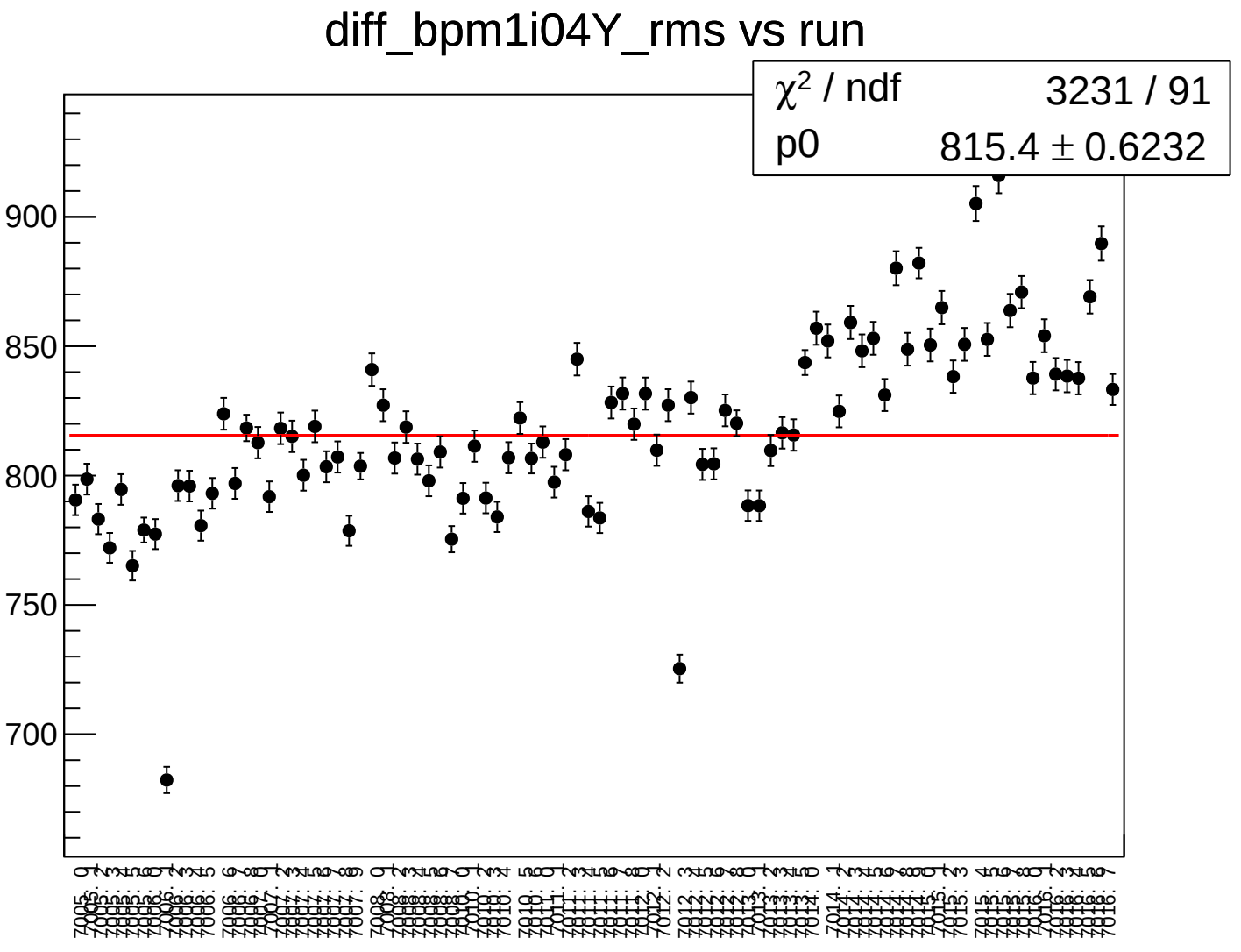

diff_bpm1i04X_mean vs run
$\chi^2$ / ndf 94.57 / 91
p0 18.37 ± 1.012
pull
Entries 92
Mean −266.2
Std Dev 0

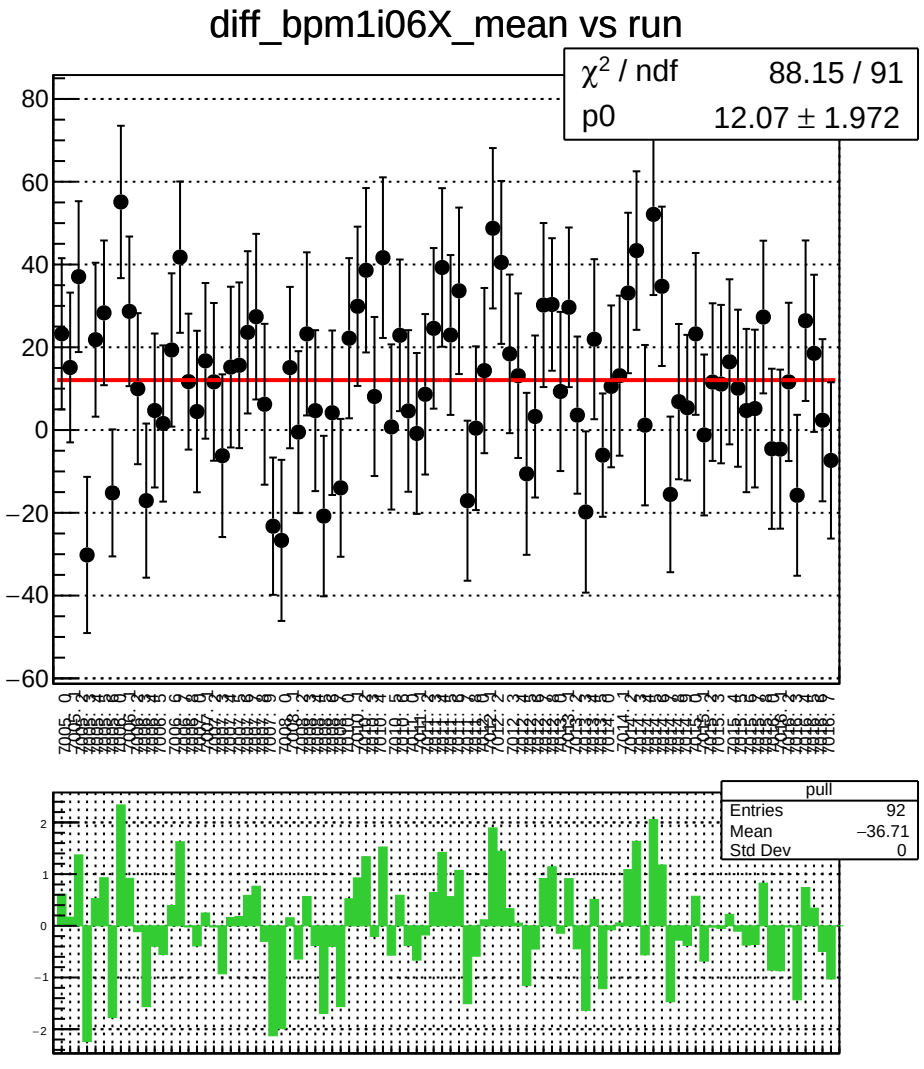

pull1D
Entries 92
Mean 0.004833
Std Dev 1.014

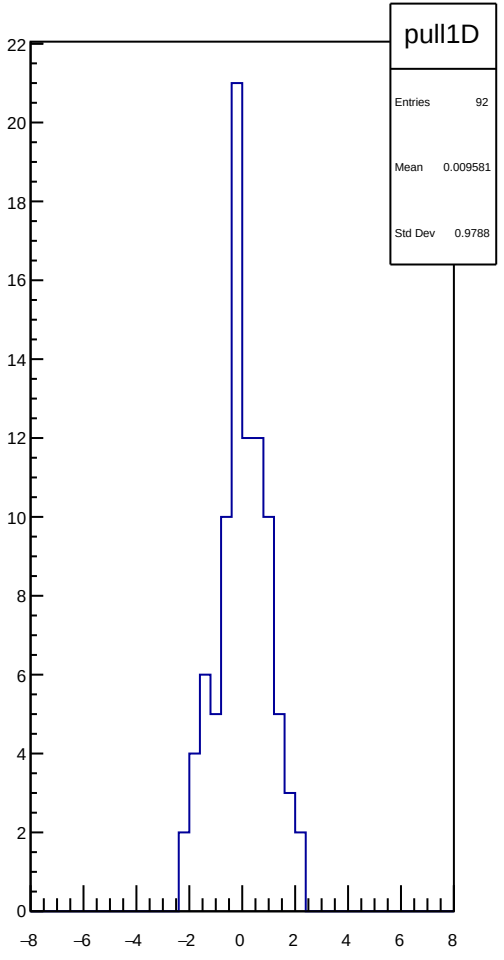

diff_bpm1i04X_rms vs run
χ² / ndf 1129 / 91
p0 936.7 ± 0.7155
1000
980
960
940
920
900
880
860
840

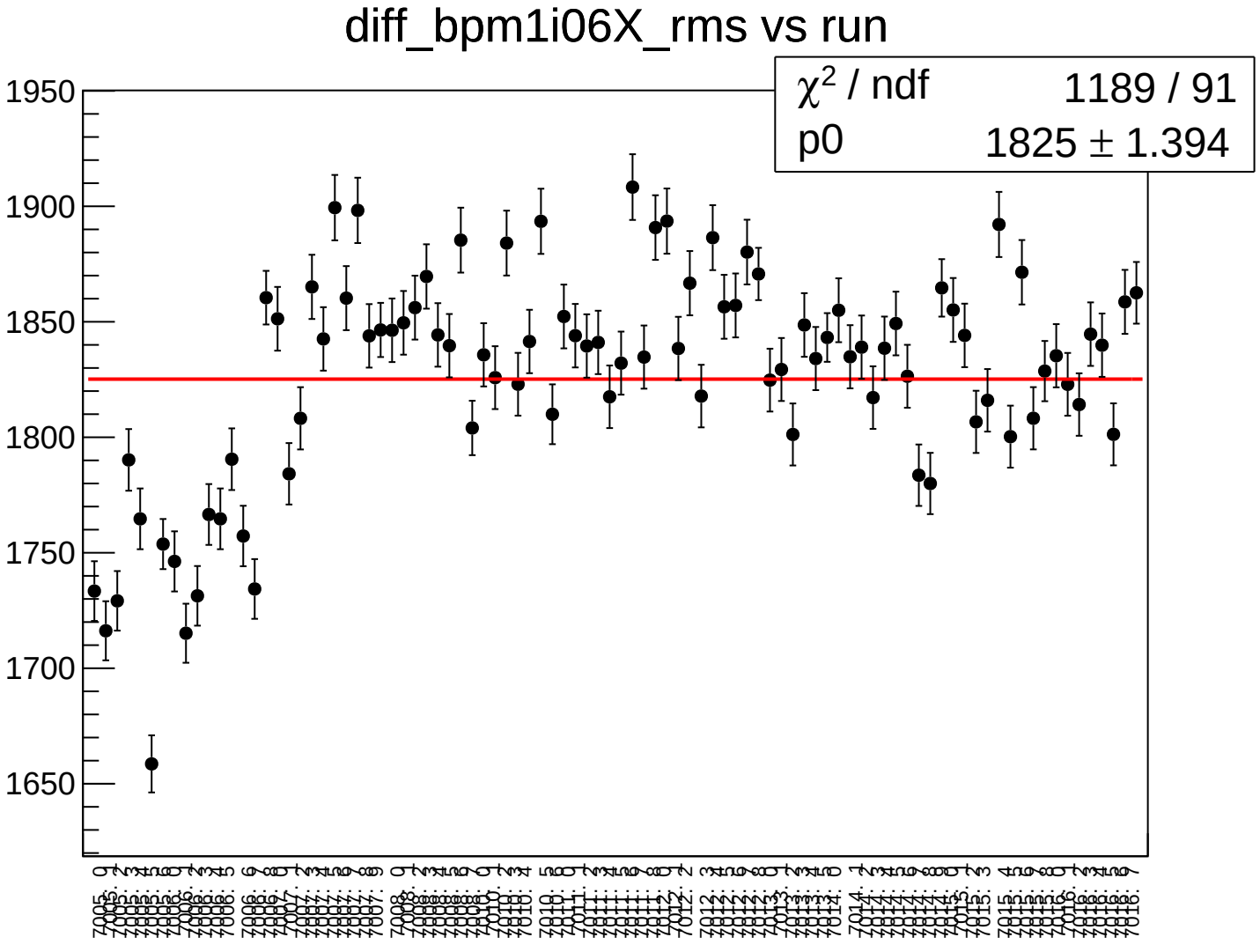

diff_bpm1i04Y_mean vs run
χ² / ndf 104.1 / 91
p0 −4.71 ± 0.8813
pull
Entries 92
Mean −105.9
Std Dev 0

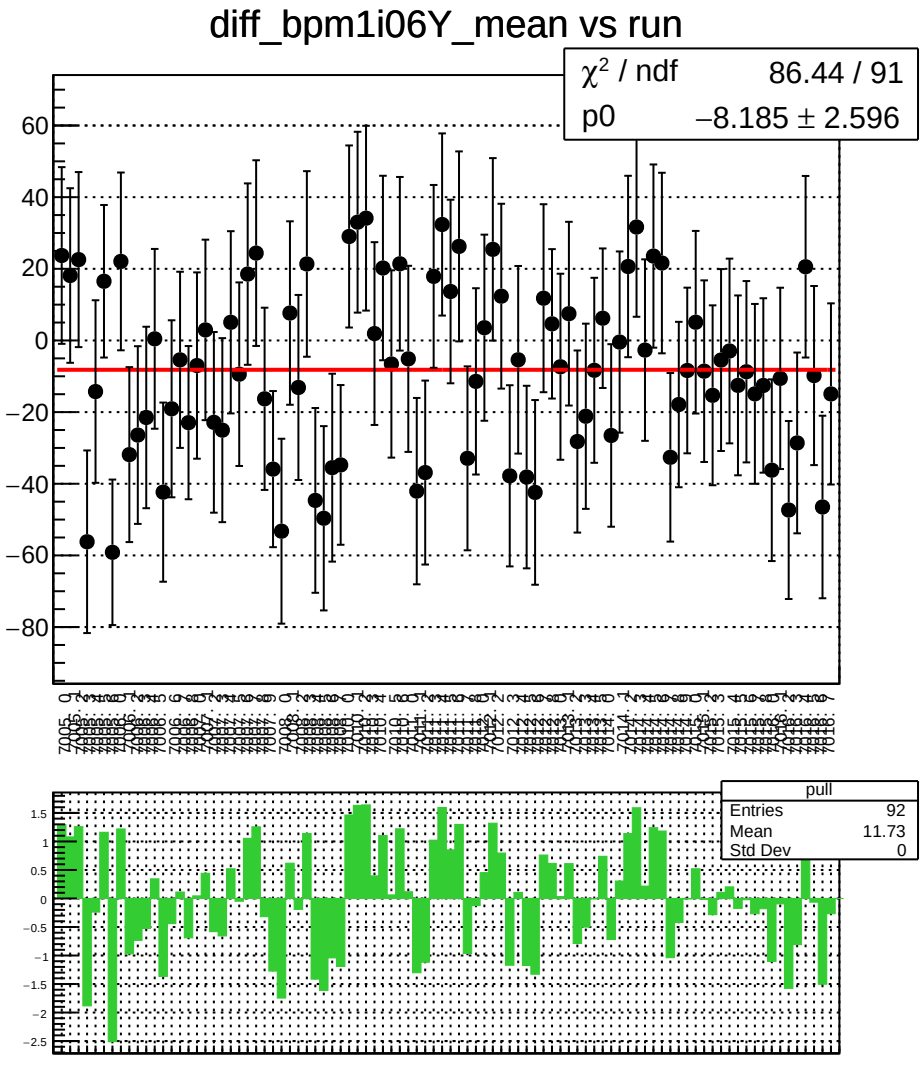

pull1D
Entries 92
Mean 0.01562
Std Dev 1.063

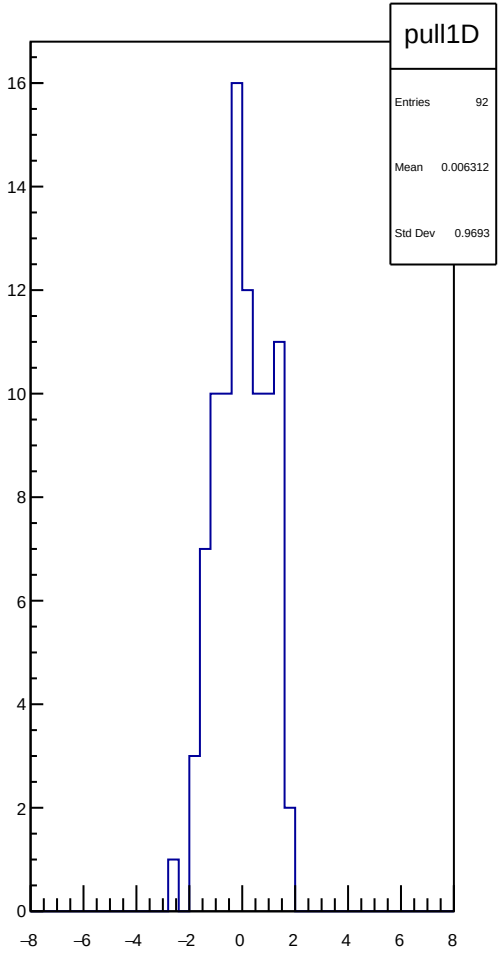

diff_bpm1i04Y_rms vs run
χ² / ndf 3231 / 91
p0 815.4 ± 0.6232
900
850
800
750
700

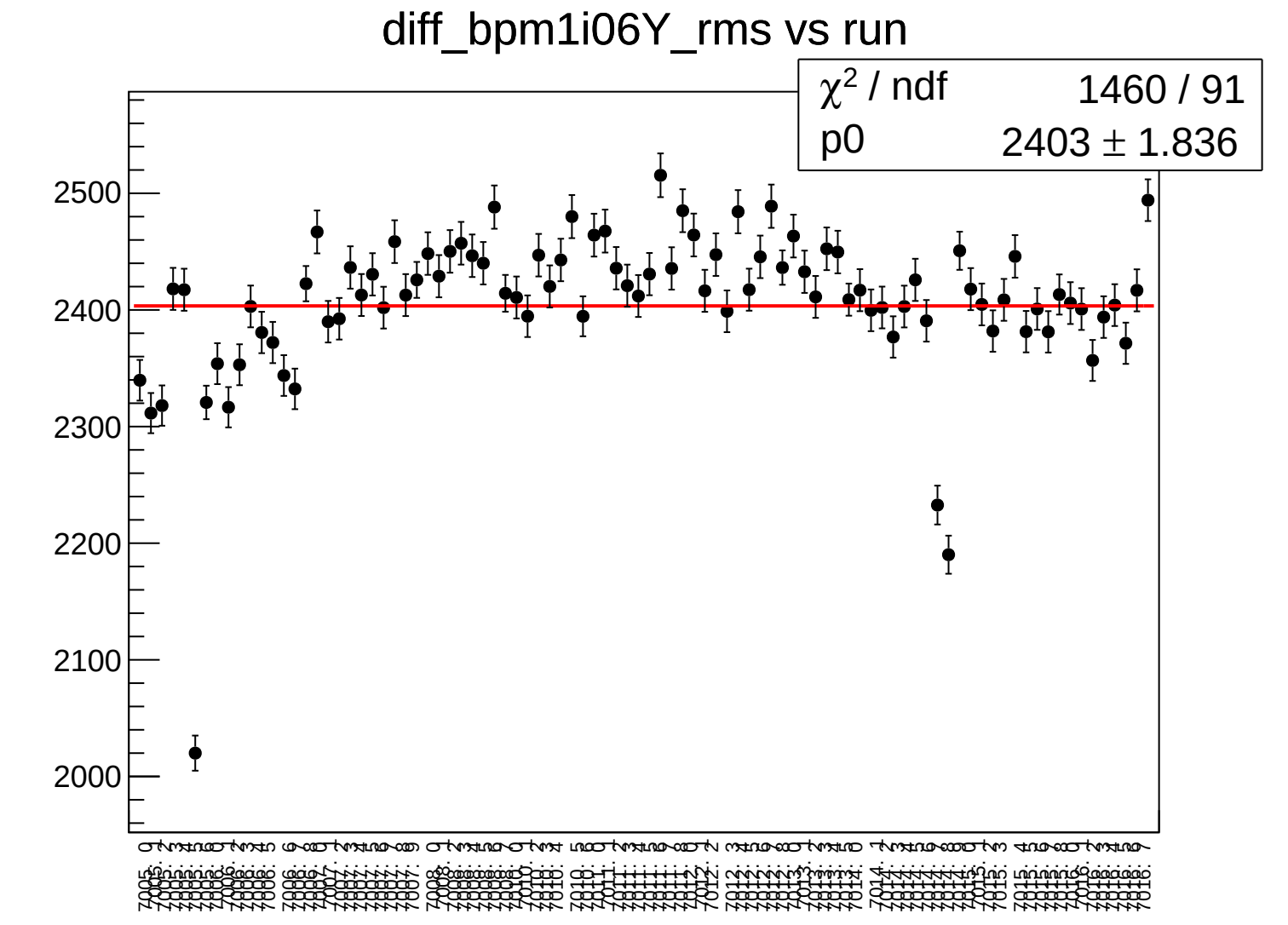

diff_bpm1i06X_mean vs run
χ² / ndf 88.15 / 91
p0 12.07 ± 1.972
pull
Entries 92
Mean −36.71
Std Dev 0

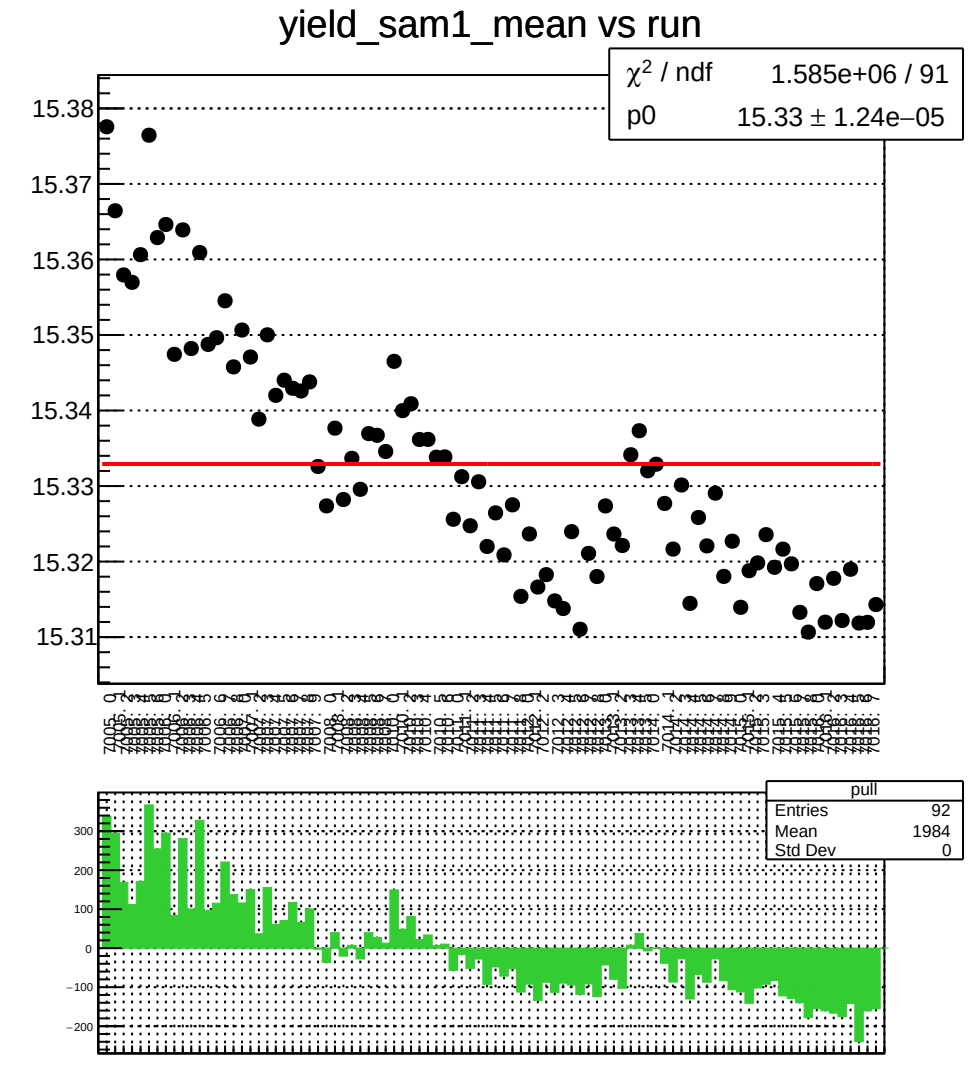

pull1D
Entries 92
Mean 0.009581
Std Dev 0.9788

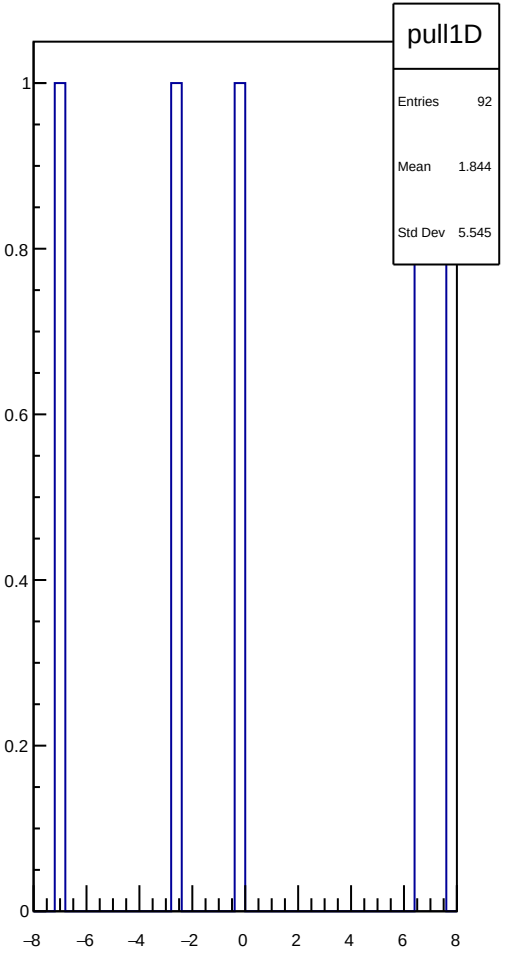

diff_bpm1i06X_rms vs run
χ² / ndf 1189 / 91
p0 1825 ± 1.394
1950
1900
1850
1800
1750
1700
1650

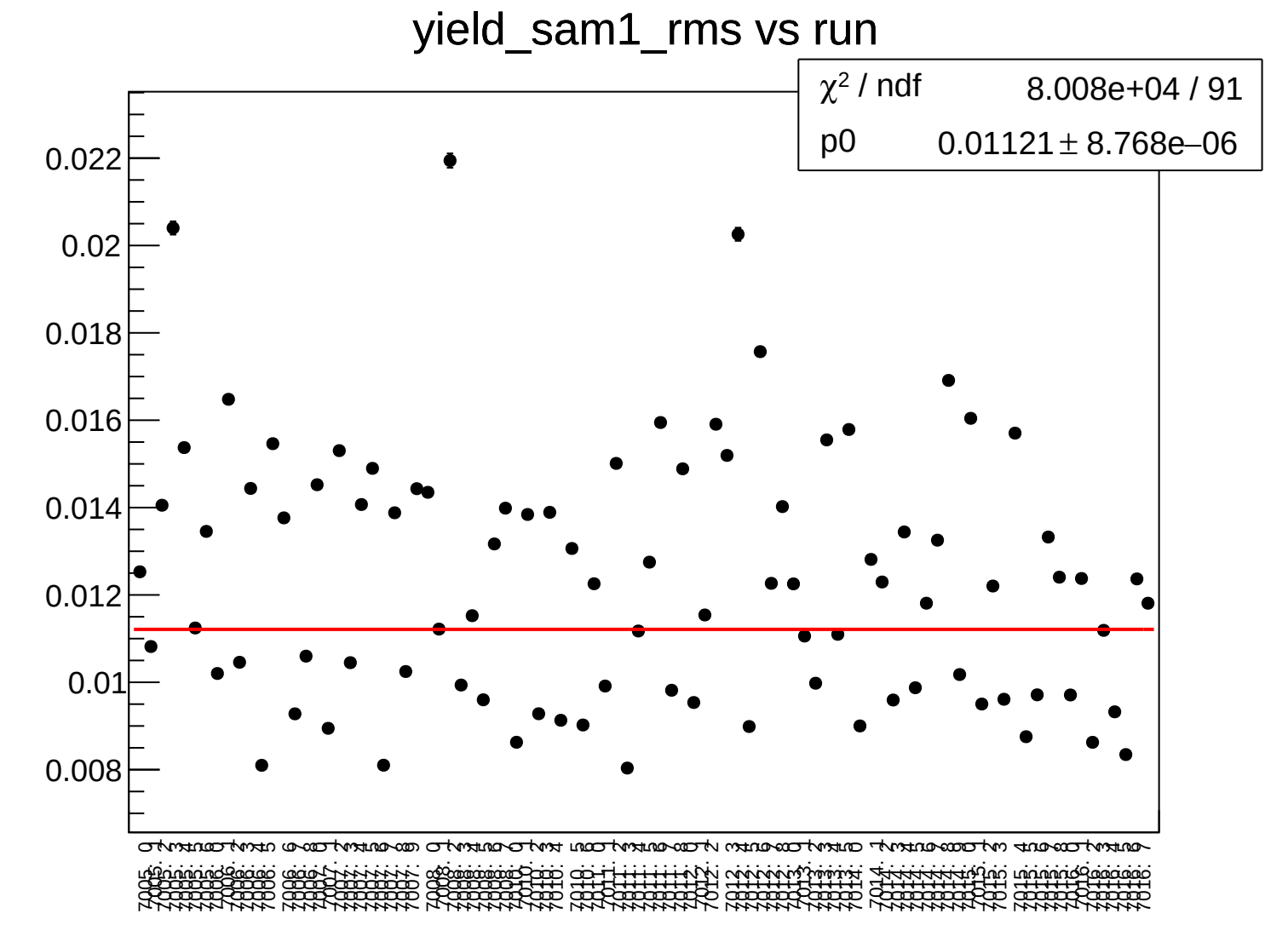

diff_bpm1i06Y_mean vs run
χ² / ndf 86.44 / 91
p0 −8.185 ± 2.596
pull
Entries 92
Mean 11.73
Std Dev 0

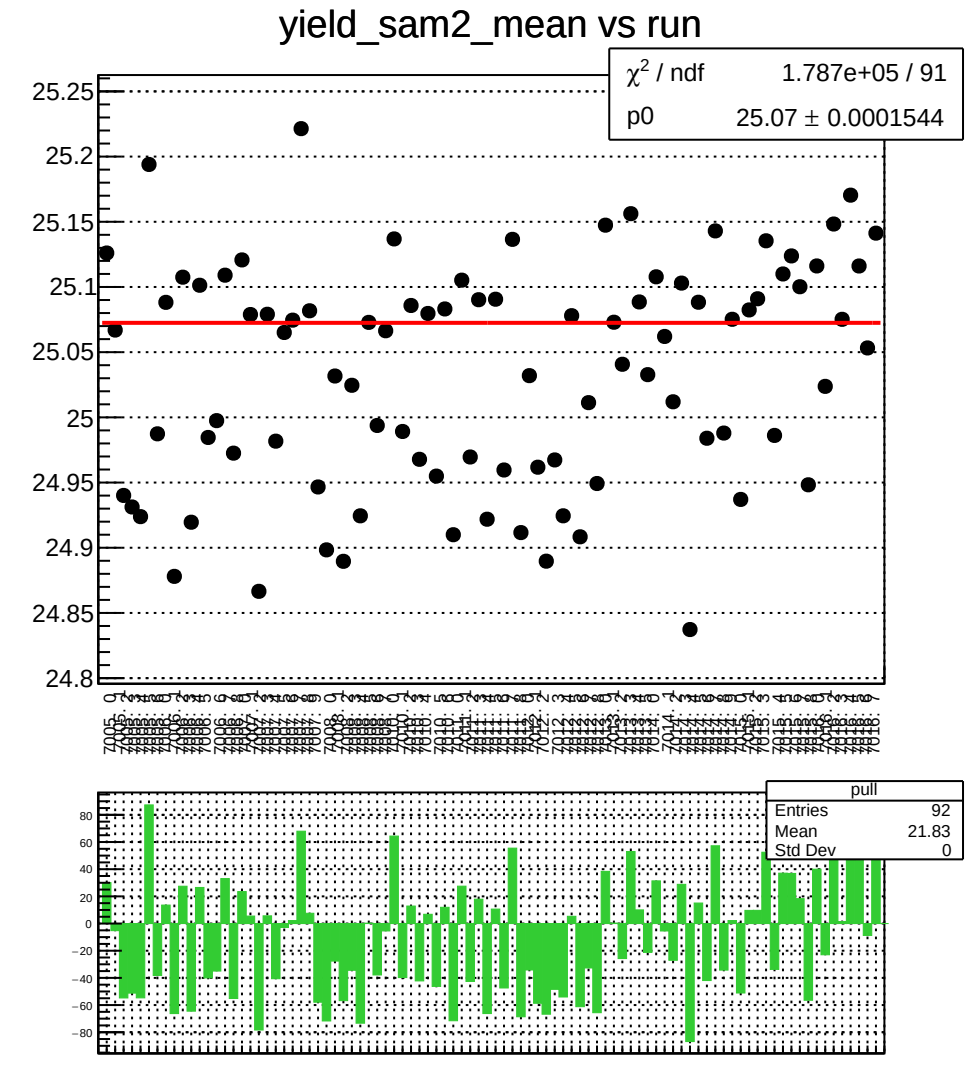

pull1D
Entries 92
Mean 0.006312
Std Dev 0.9693

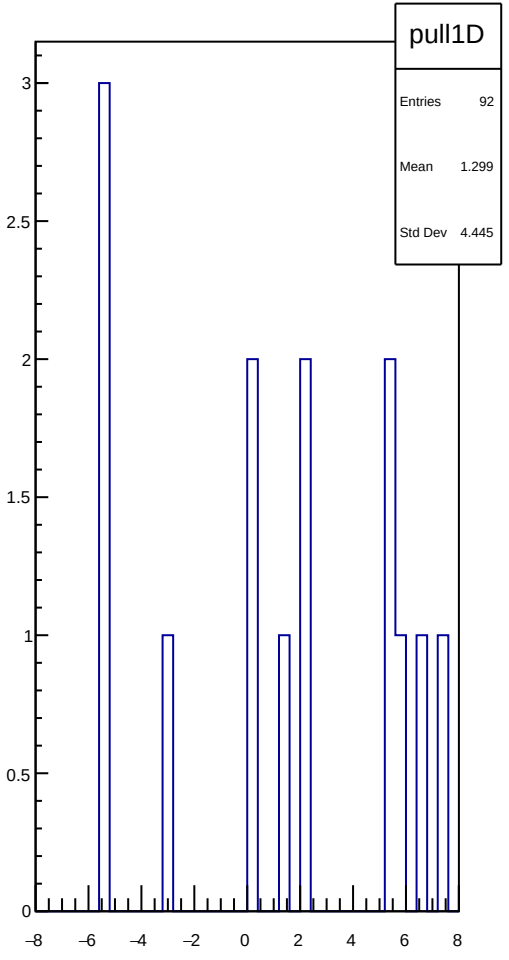

diff_bpm1i06Y_rms vs run
χ² / ndf 1460 / 91
p0 2403 ± 1.836
2500
2400
2300
2200
2100
2000

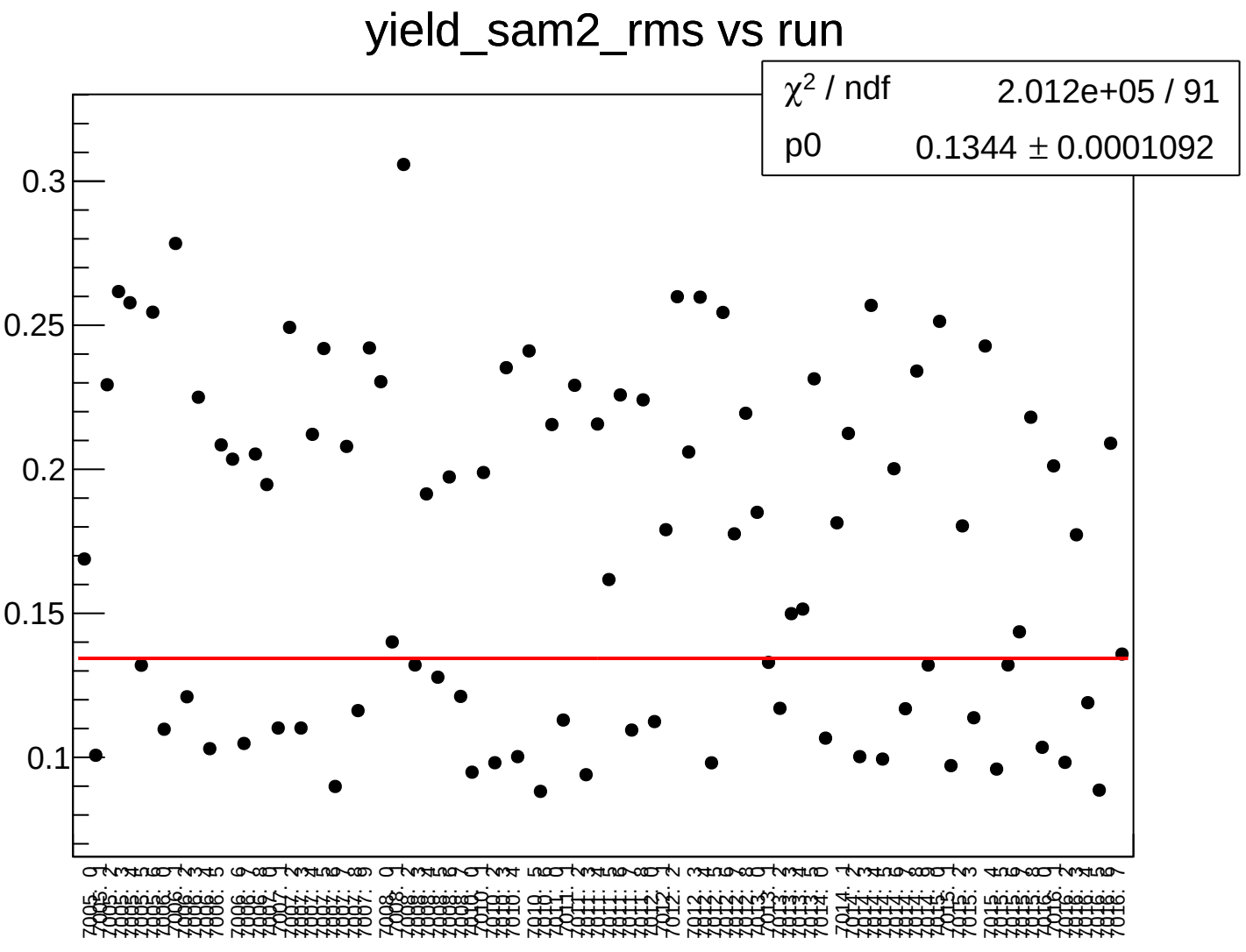

yield_sam1_mean vs run
χ² / ndf 1.585e+06 / 91
p0 15.33 ± 1.24e−05
15.38
15.37
15.36
15.35
15.34
15.33
15.32
15.31
pull
Entries 92
Mean 1984
Std Dev 0
300
200
100
0
−100
−200

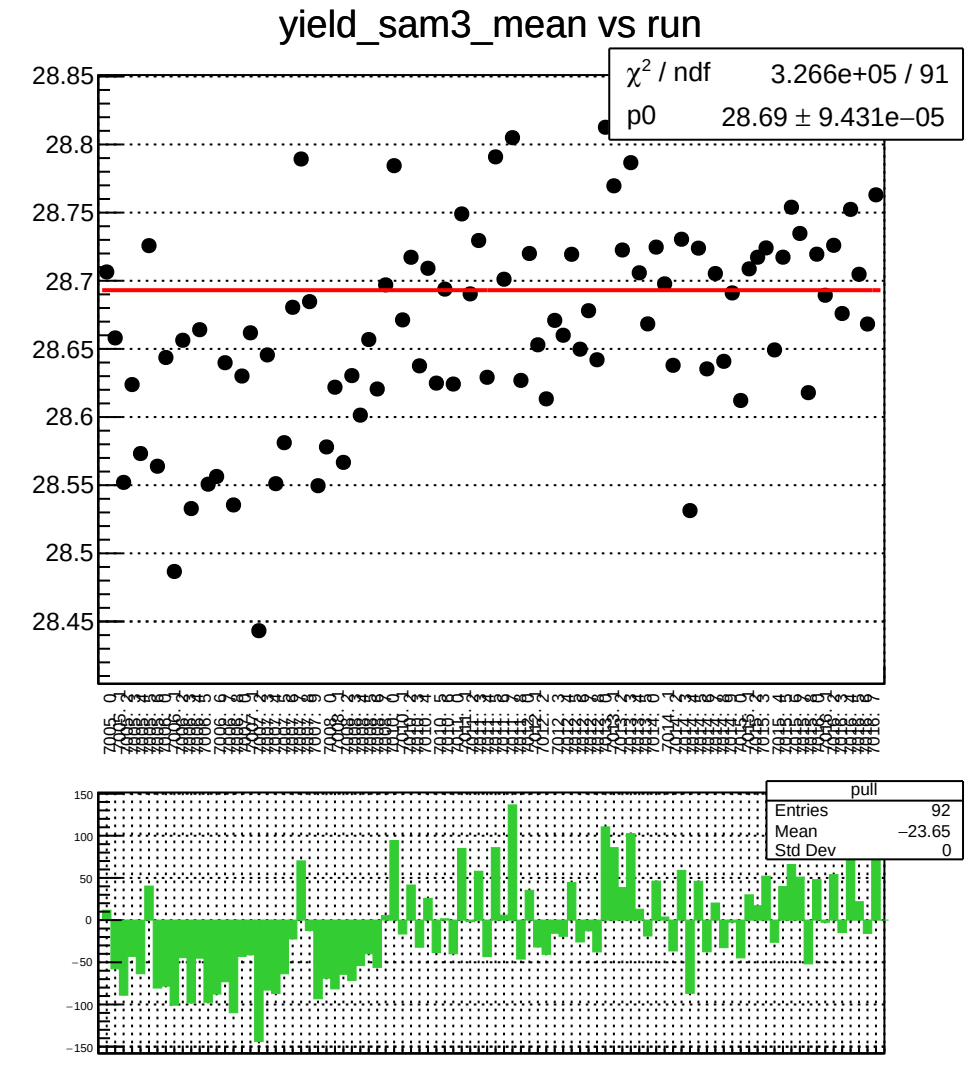

pull1D
Entries 92
Mean 1.844
Std Dev 5.545
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

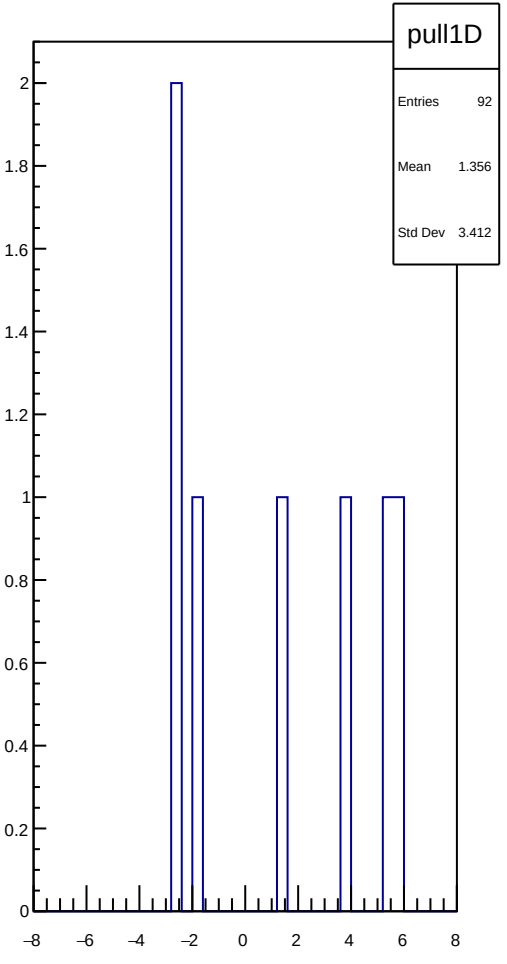

yield_sam1_rms vs run
χ² / ndf 8.008e+04 / 91
p0 0.01121 ± 8.768e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

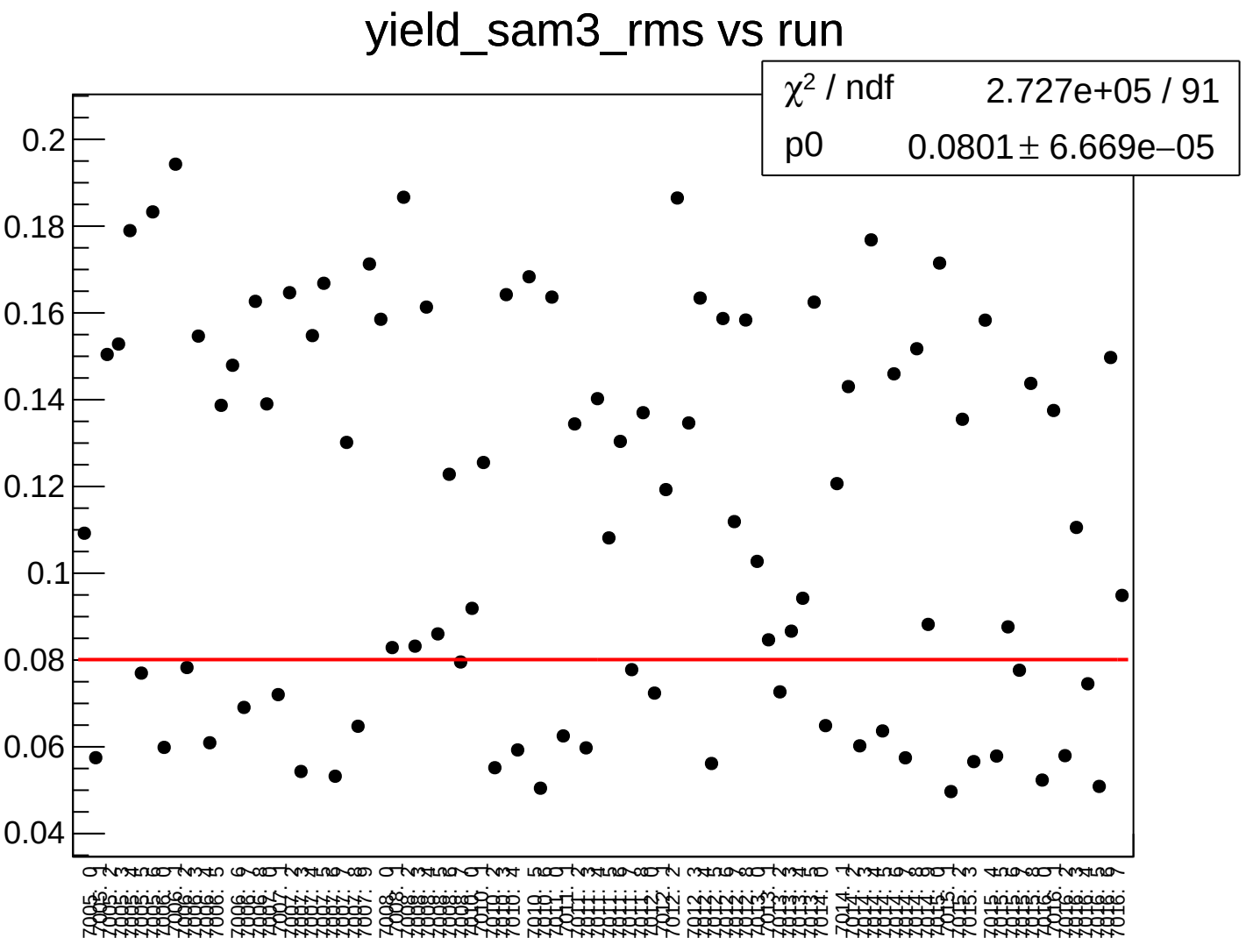

yield_sam2_mean vs run
χ² / ndf 1.787e+05 / 91
p0 25.07 ± 0.0001544
25.25
25.2
25.15
25.1
25.05
25
24.95
24.9
24.85
24.8
pull
Entries 92
Mean 21.83
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

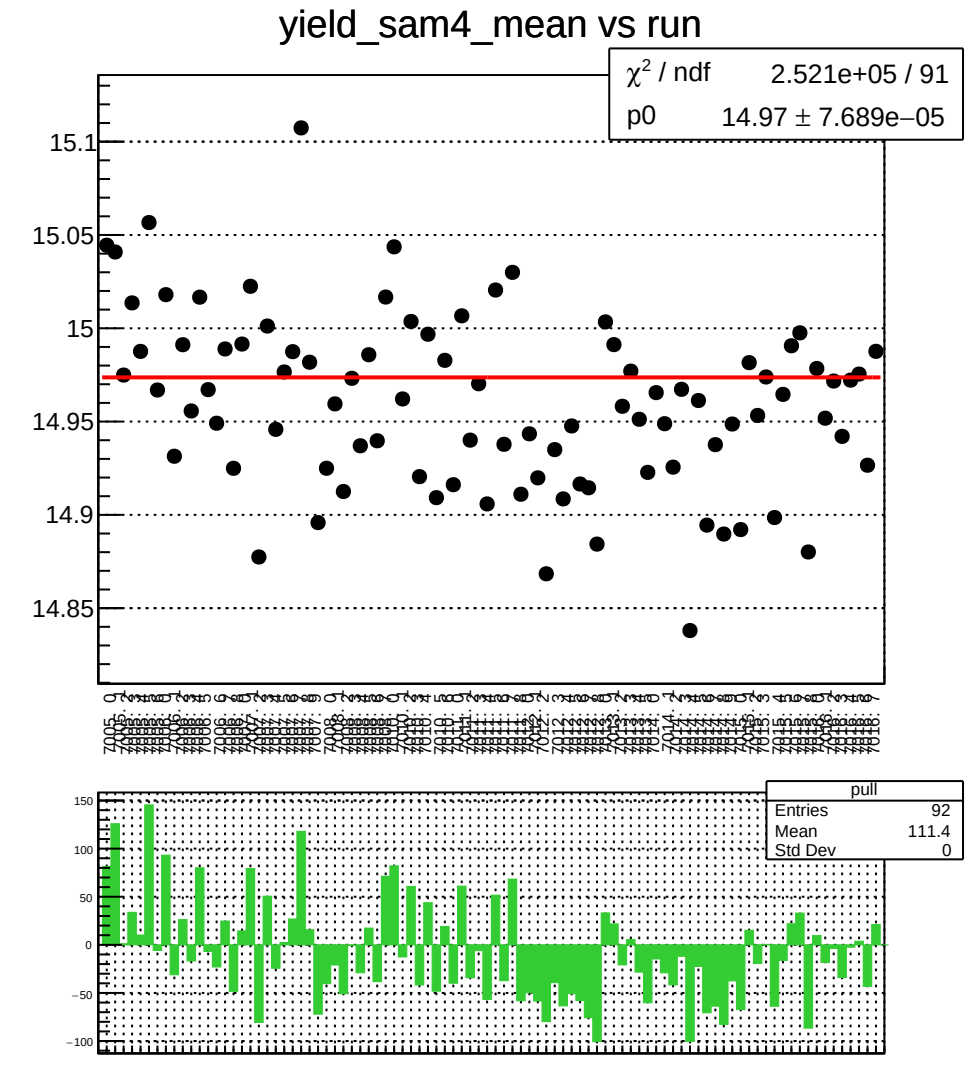

pull1D
Entries 92
Mean 1.299
Std Dev 4.445
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

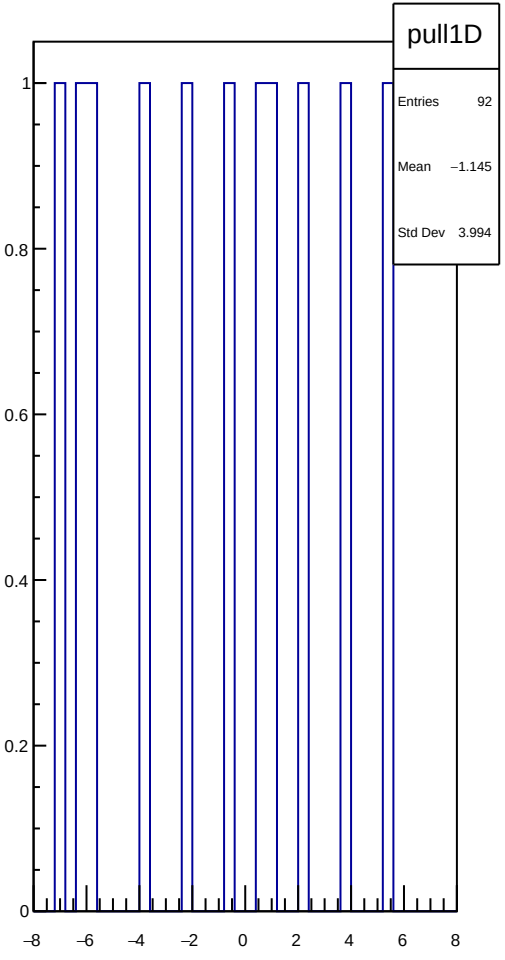

yield_sam2_rms vs run
$\chi^2$ / ndf 2.012e+05 / 91
p0 0.1344 ± 0.0001092
0.3
0.25
0.2
0.15
0.1

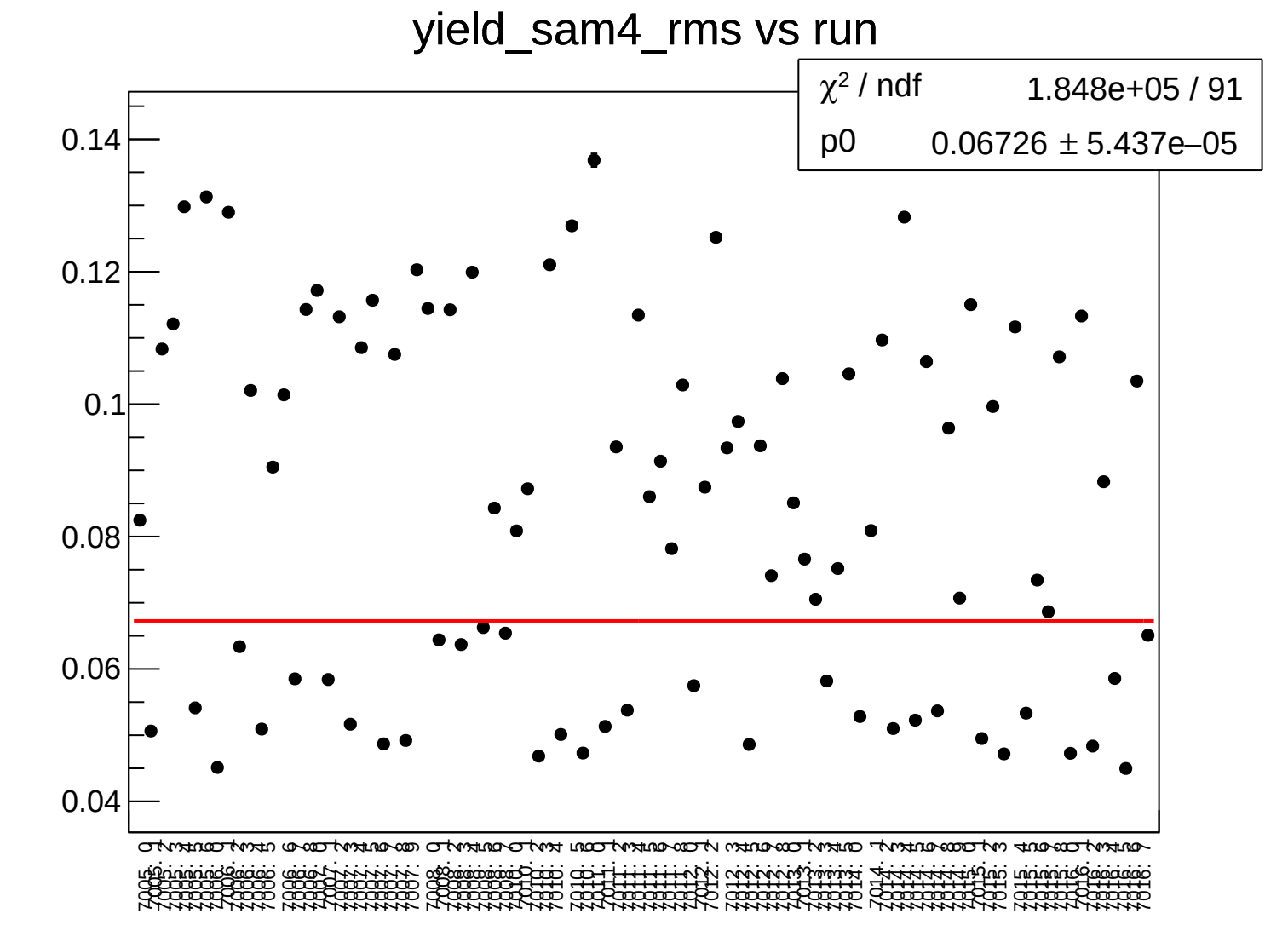

yield_sam3_mean vs run
χ² / ndf 3.266e+05 / 91
p0 28.69 ± 9.431e−05
28.85
28.8
28.75
28.7
28.65
28.6
28.55
28.5
28.45
pull
Entries 92
Mean −23.65
Std Dev 0
150
100
50
0
−50
−100
−150

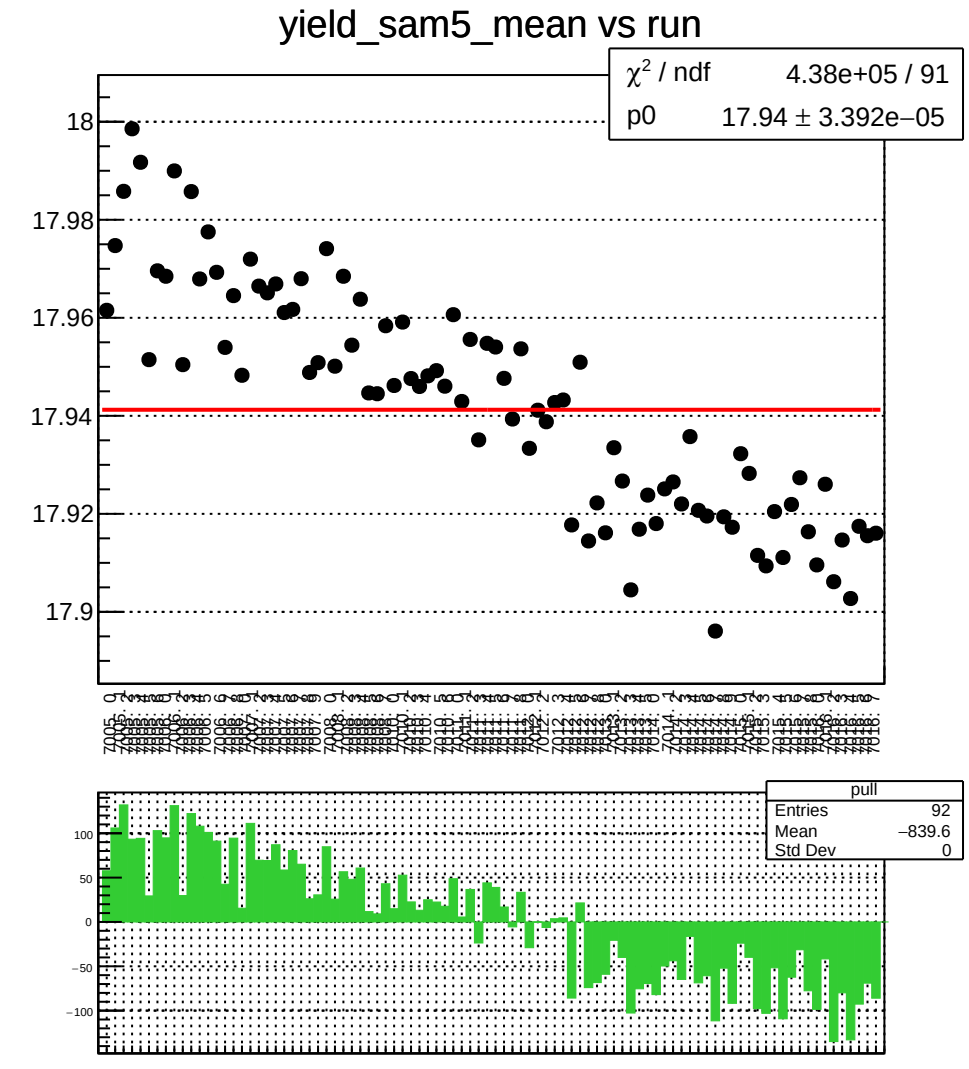

pull1D
Entries 92
Mean 1.356
Std Dev 3.412
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

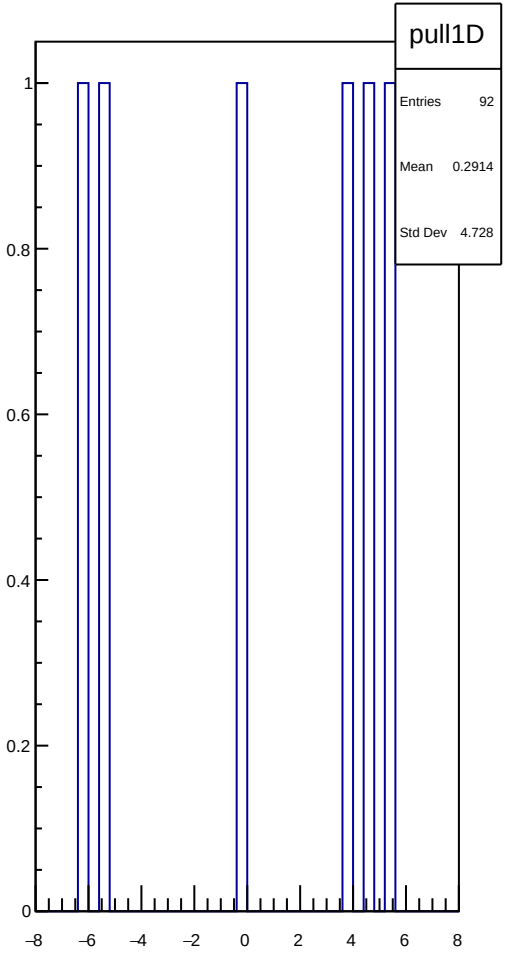

yield_sam3_rms vs run
$\chi^2$ / ndf 2.727e+05 / 91
p0 0.0801 ± 6.669e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

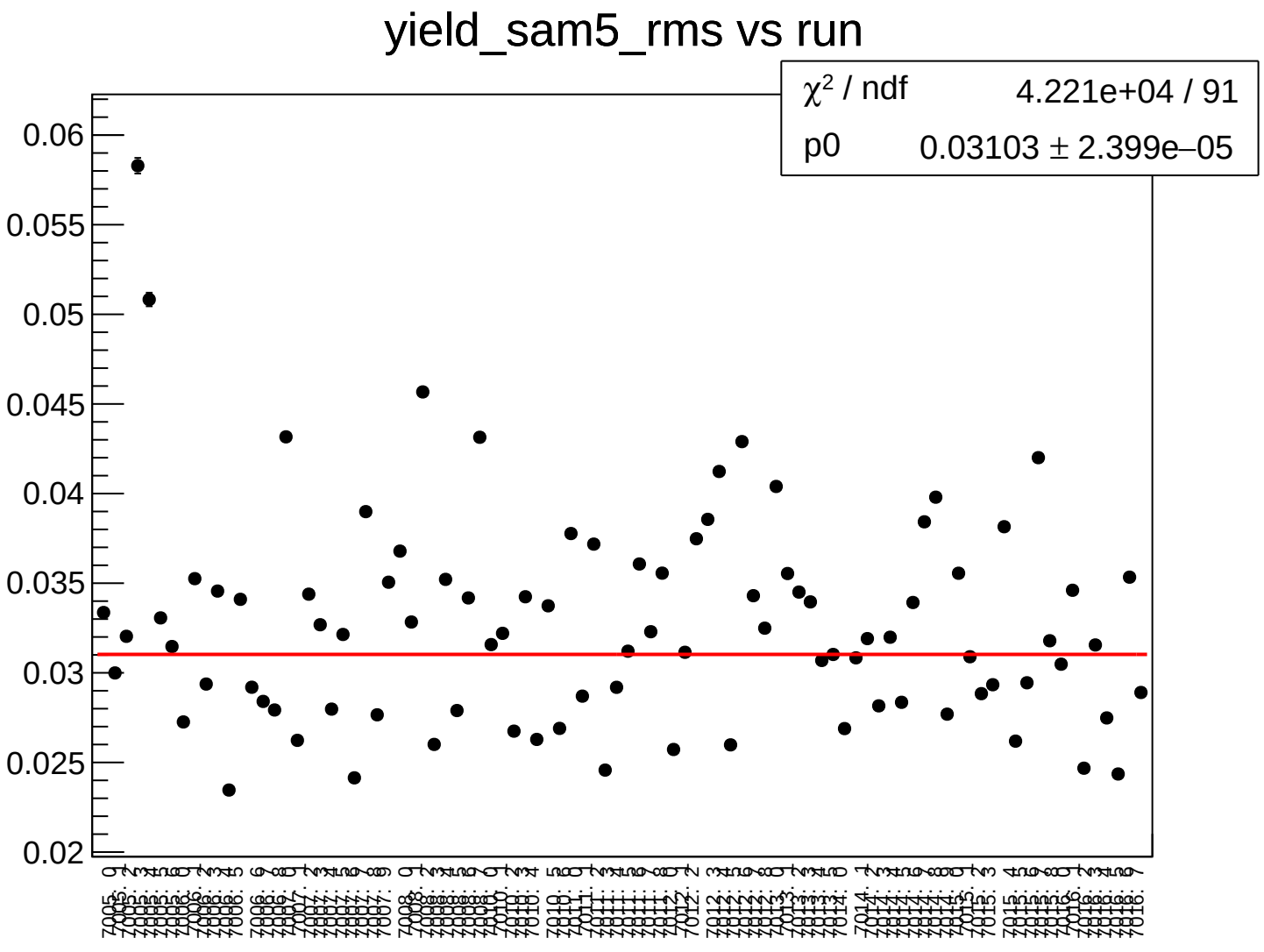

yield_sam4_mean vs run
χ² / ndf 2.521e+05 / 91
p0 14.97 ± 7.689e−05
15.1
15.05
15
14.95
14.9
14.85
pull
Entries 92
Mean 111.4
Std Dev 0
150
100
50
0
−50
−100

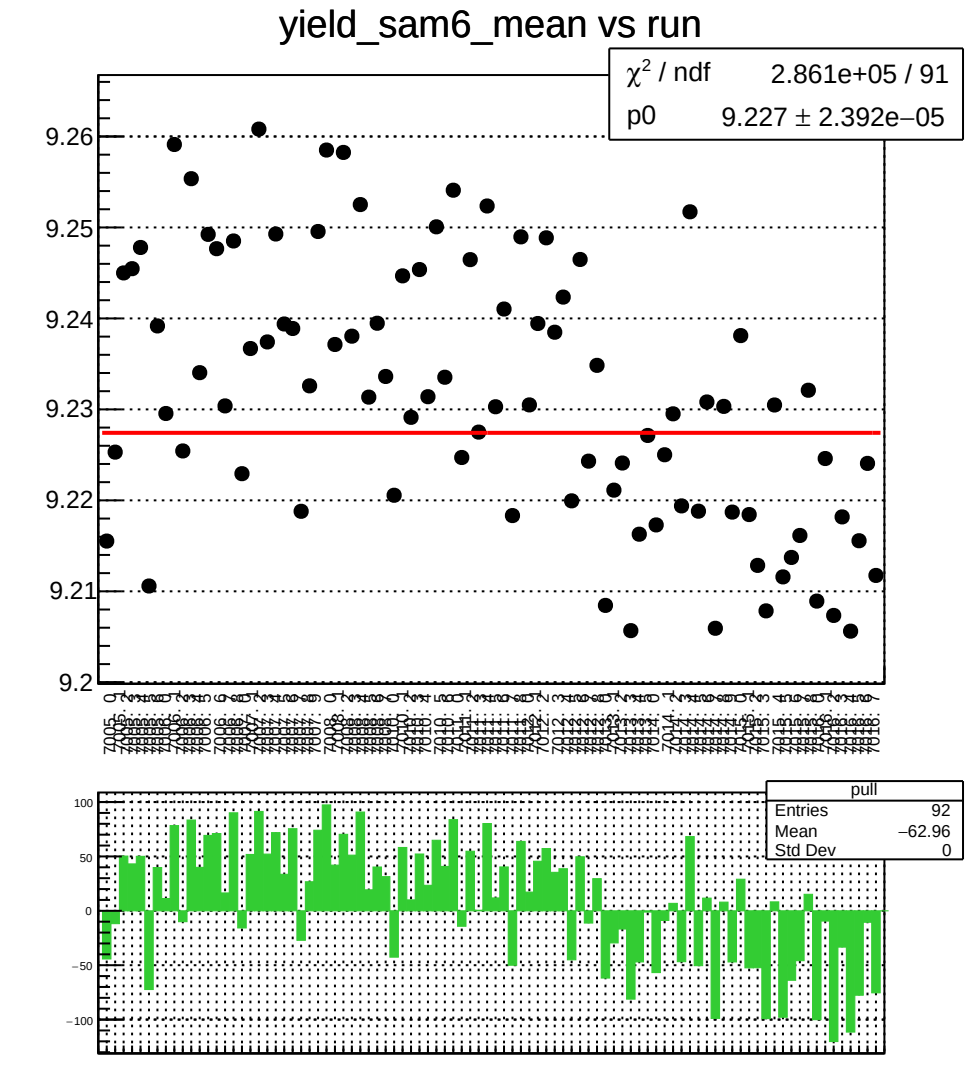

pull1D
Entries 92
Mean −1.145
Std Dev 3.994
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

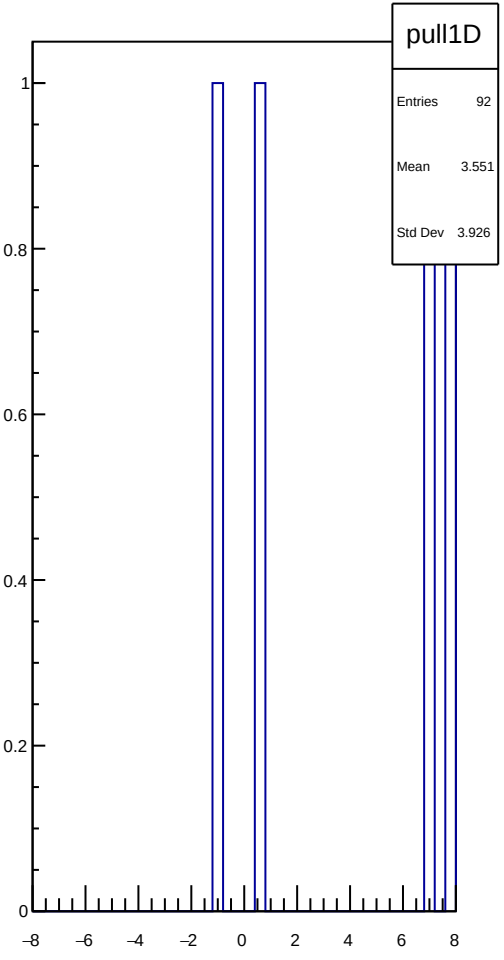

yield_sam4_rms vs run
χ² / ndf 1.848e+05 / 91
p0 0.06726 ± 5.437e–05
0.14
0.12
0.1
0.08
0.06
0.04

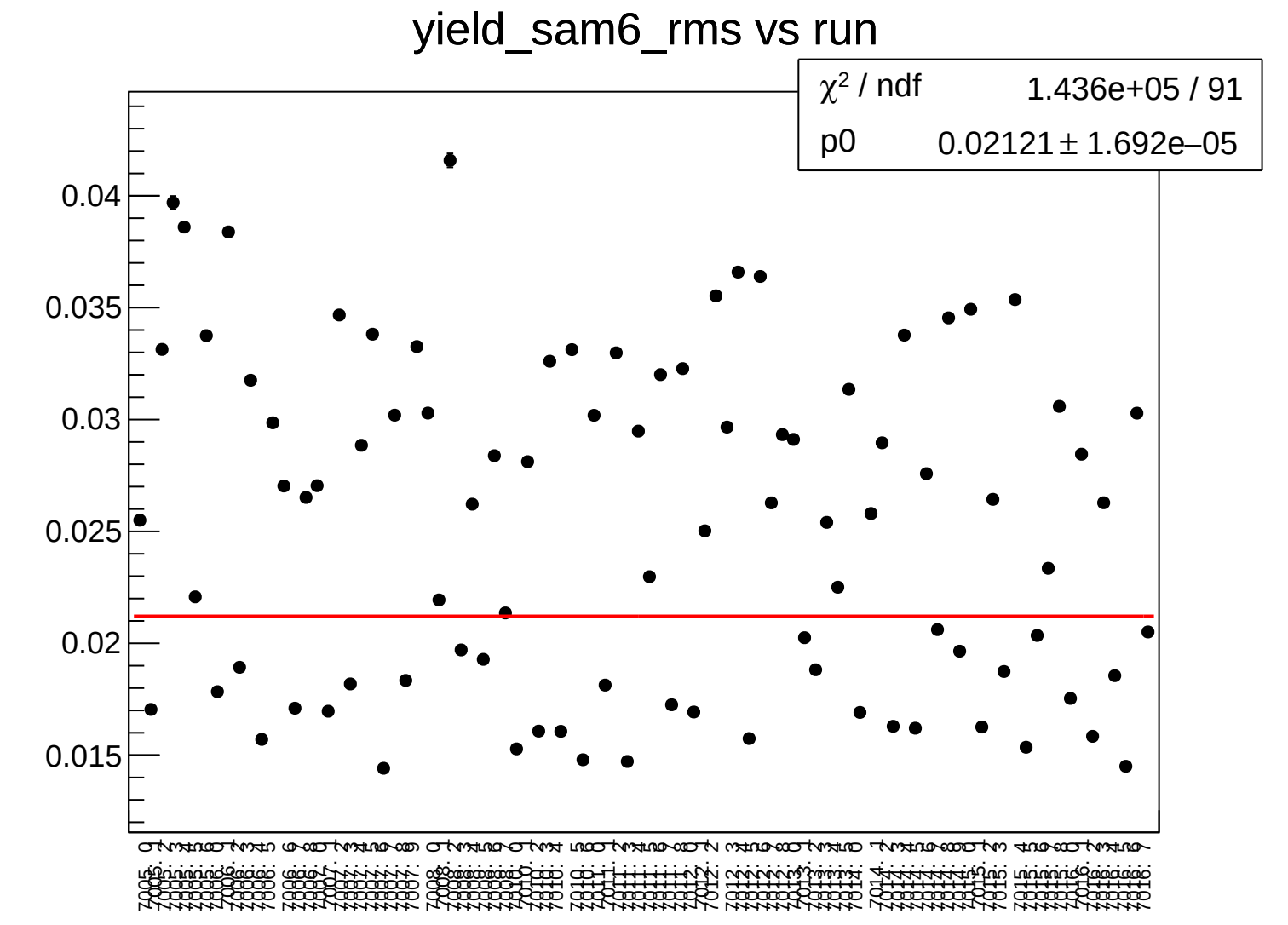

yield_sam5_mean vs run
χ² / ndf 4.38e+05 / 91
p0 17.94 ± 3.392e−05
18
17.98
17.96
17.94
17.92
17.9
pull
Entries 92
Mean −839.6
Std Dev 0
100
50
0
−50
−100

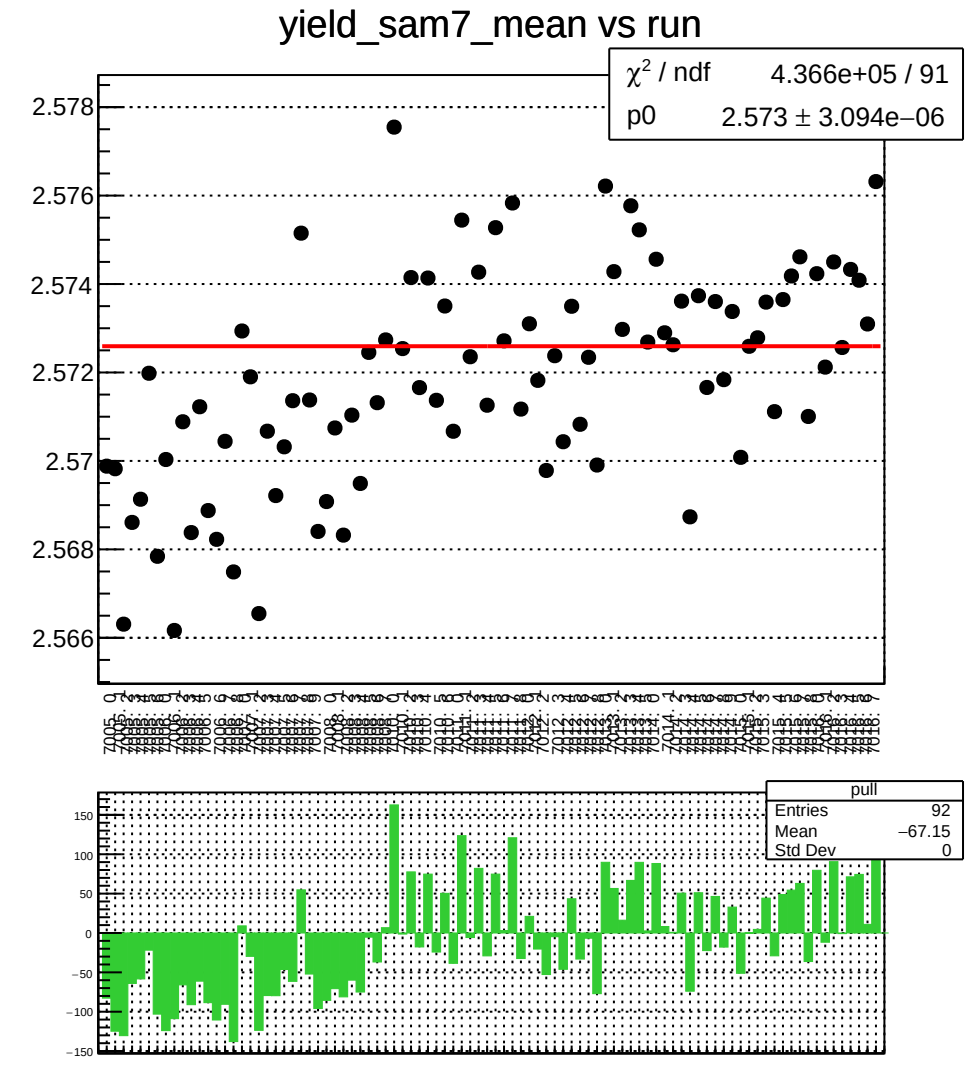

pull1D
Entries 92
Mean 0.2914
Std Dev 4.728
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

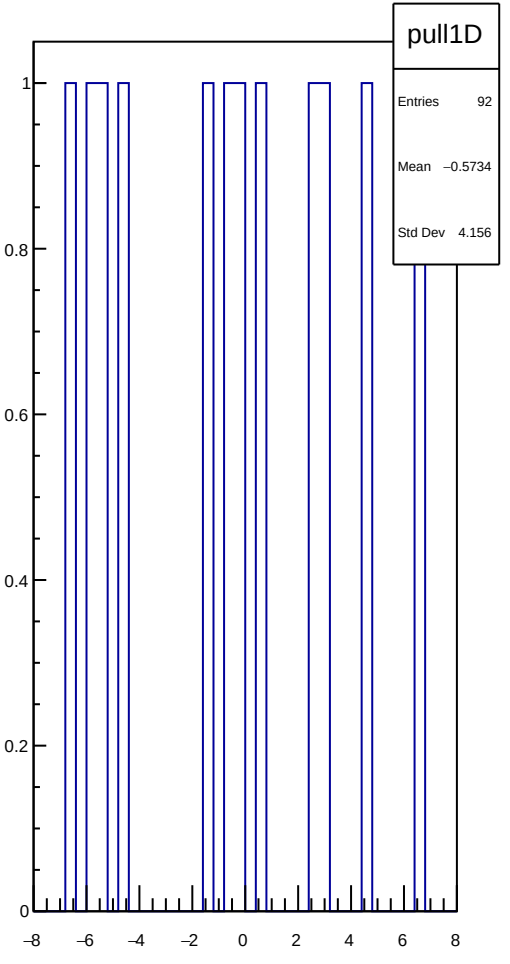

yield_sam5_rms vs run
χ² / ndf 4.221e+04 / 91
p0 0.03103 ± 2.399e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

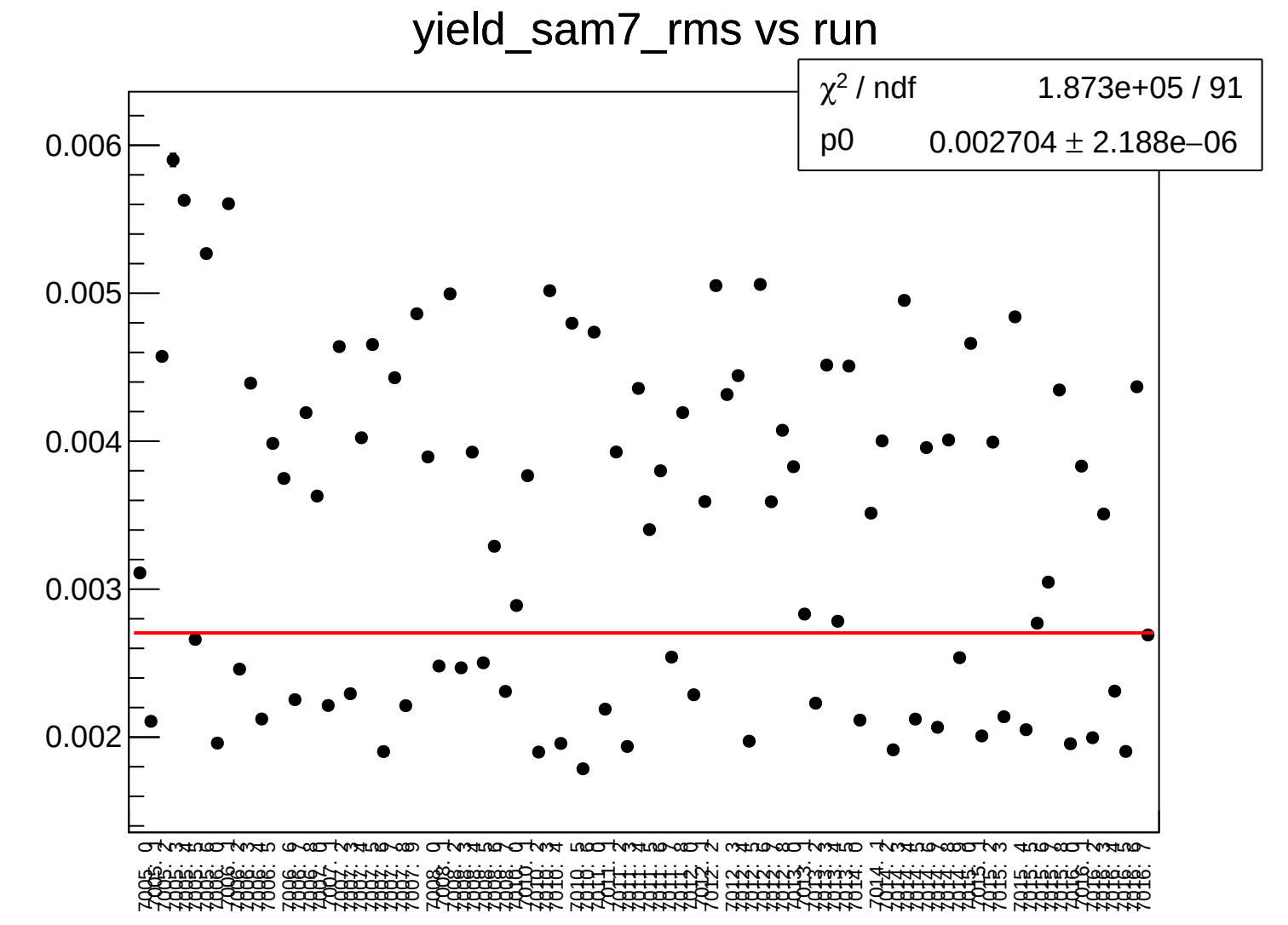

yield_sam6_mean vs run
χ² / ndf 2.861e+05 / 91
p0 9.227 ± 2.392e−05
9.26
9.25
9.24
9.23
9.22
9.21
9.2
pull
Entries 92
Mean −62.96
Std Dev 0
100
50
0
−50
−100

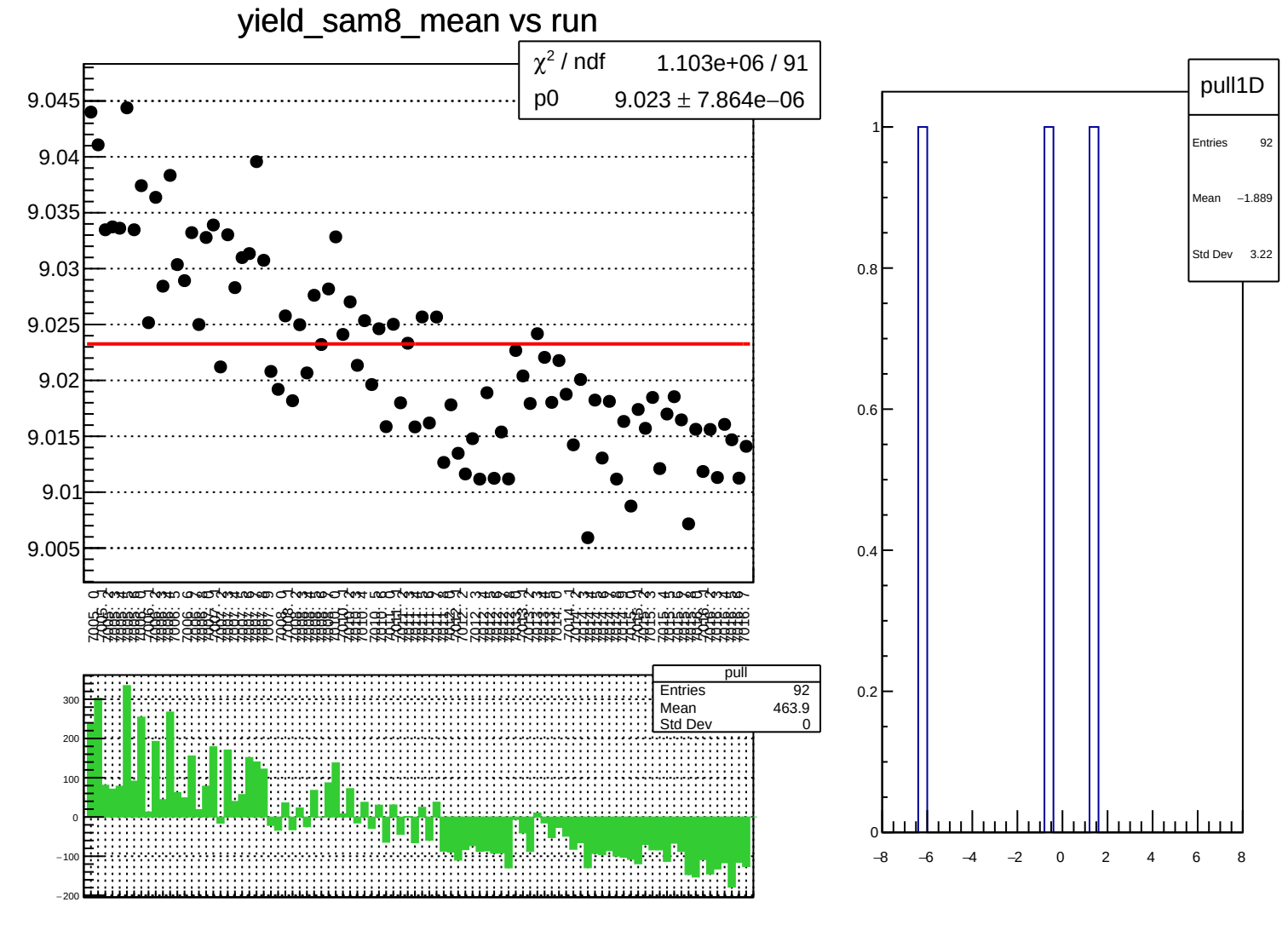

pull1D
Entries 92
Mean 3.551
Std Dev 3.926
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

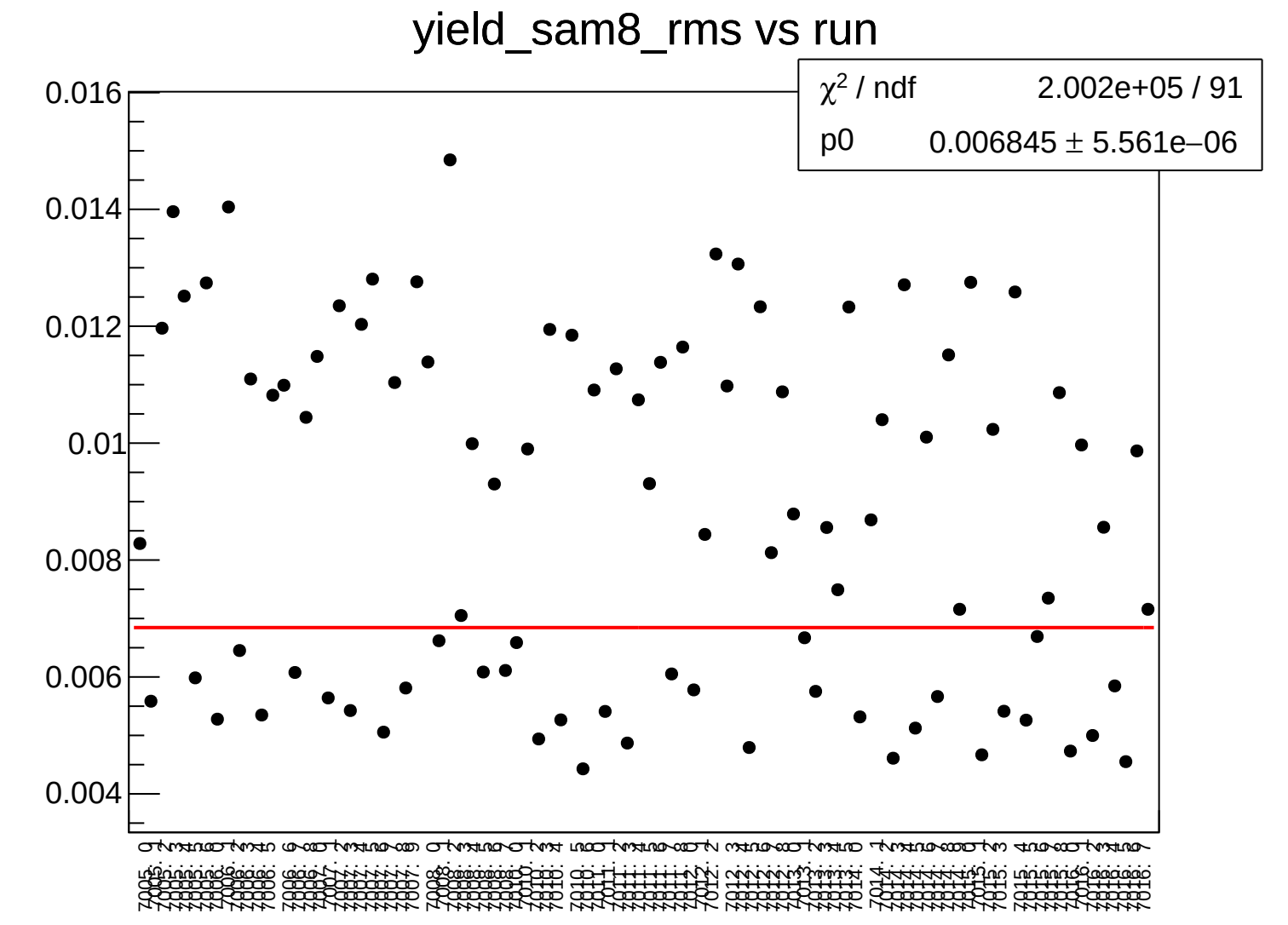

yield_sam6_rms vs run
χ² / ndf 1.436e+05 / 91
p0 0.02121 ± 1.692e−05
0.04
0.035
0.03
0.025
0.02
0.015

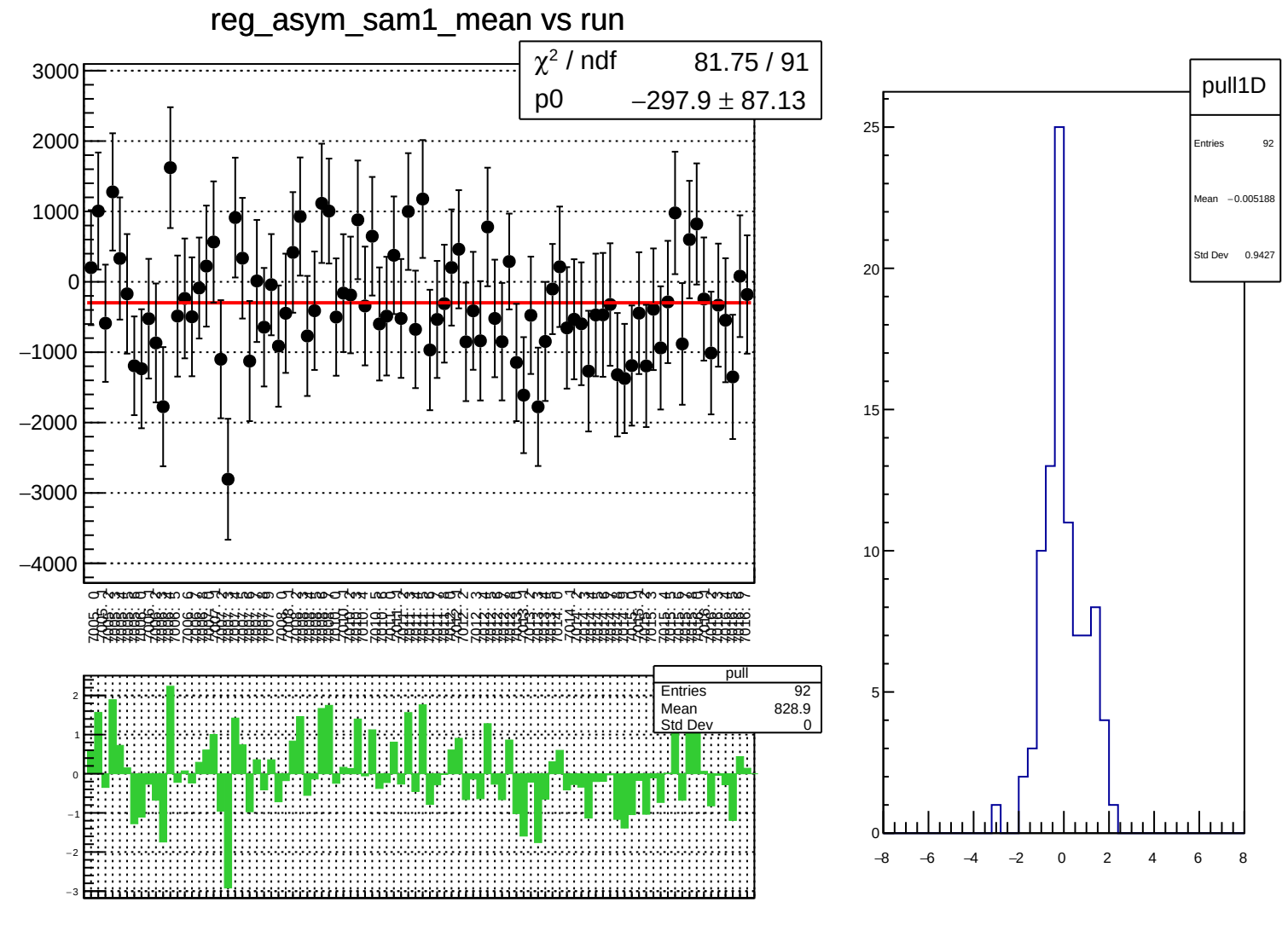

yield_sam7_mean vs run
χ² / ndf 4.366e+05 / 91
p0 2.573 ± 3.094e−06
2.578
2.576
2.574
2.572
2.57
2.568
2.566
pull
Entries 92
Mean −67.15
Std Dev 0
150
100
50
0
−50
−100
−150

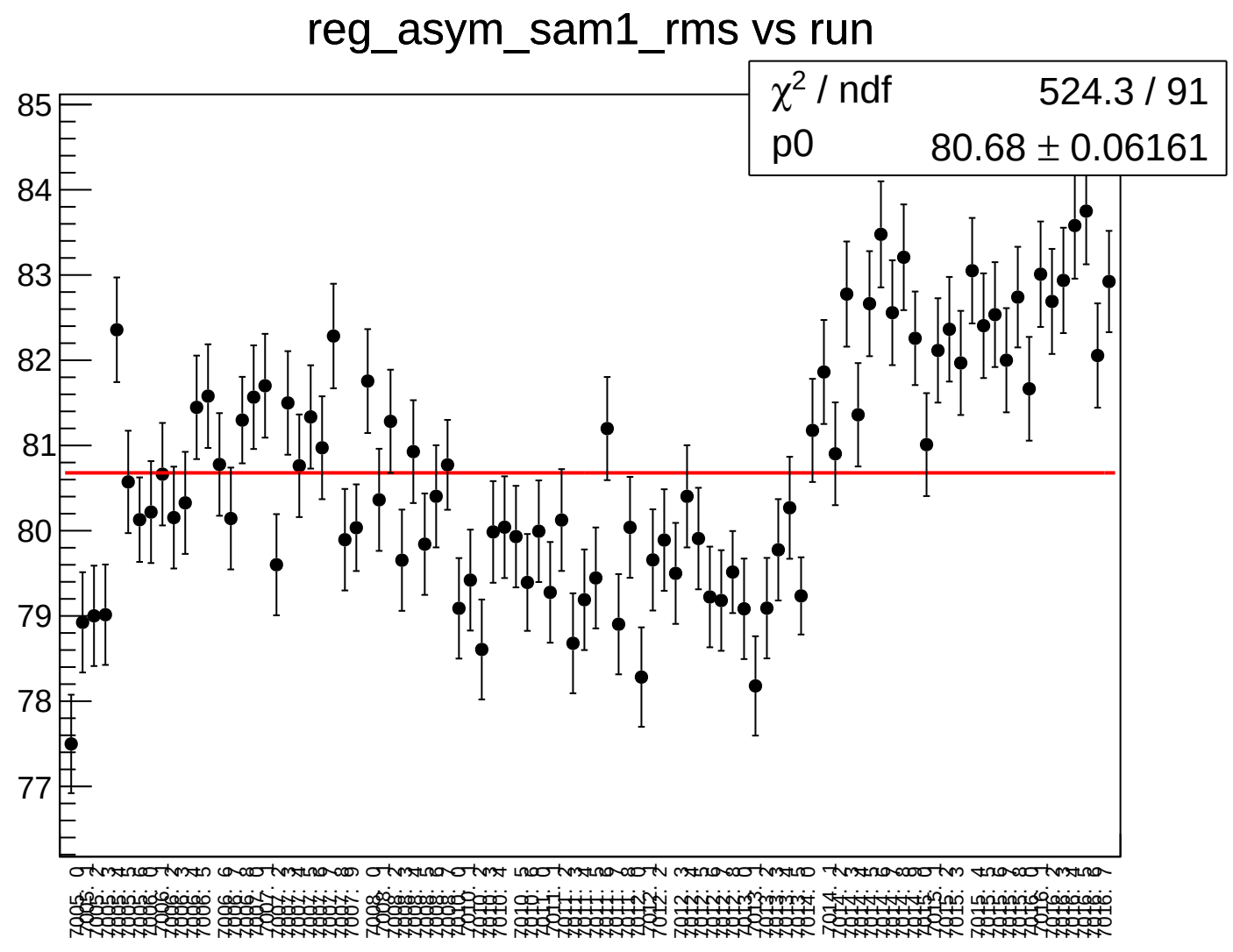

pull1D
Entries 92
Mean −0.5734
Std Dev 4.156
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

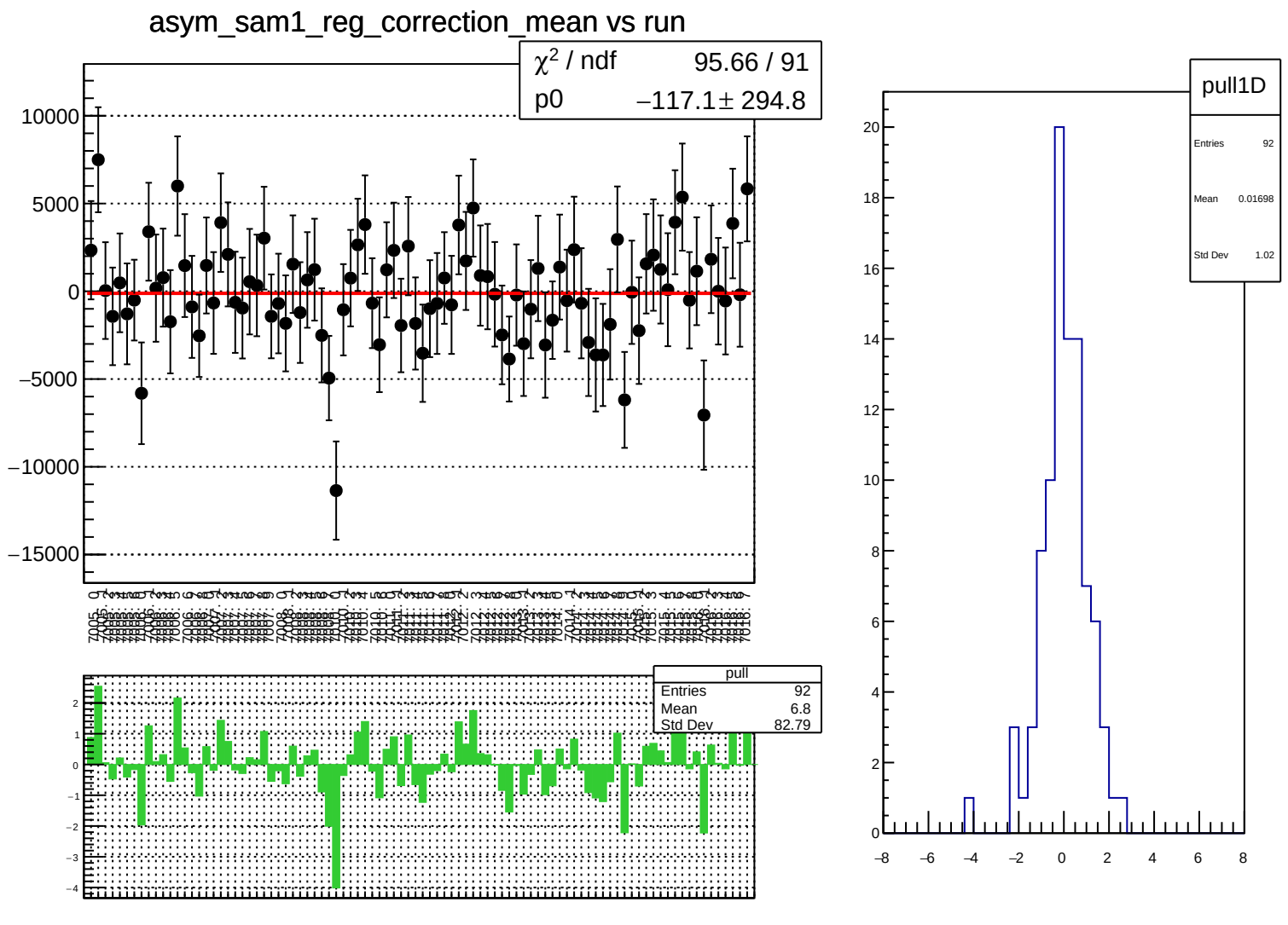

yield_sam7_rms vs run
χ² / ndf 1.873e+05 / 91
p0 0.002704 ± 2.188e−06
0.006
0.005
0.004
0.003
0.002

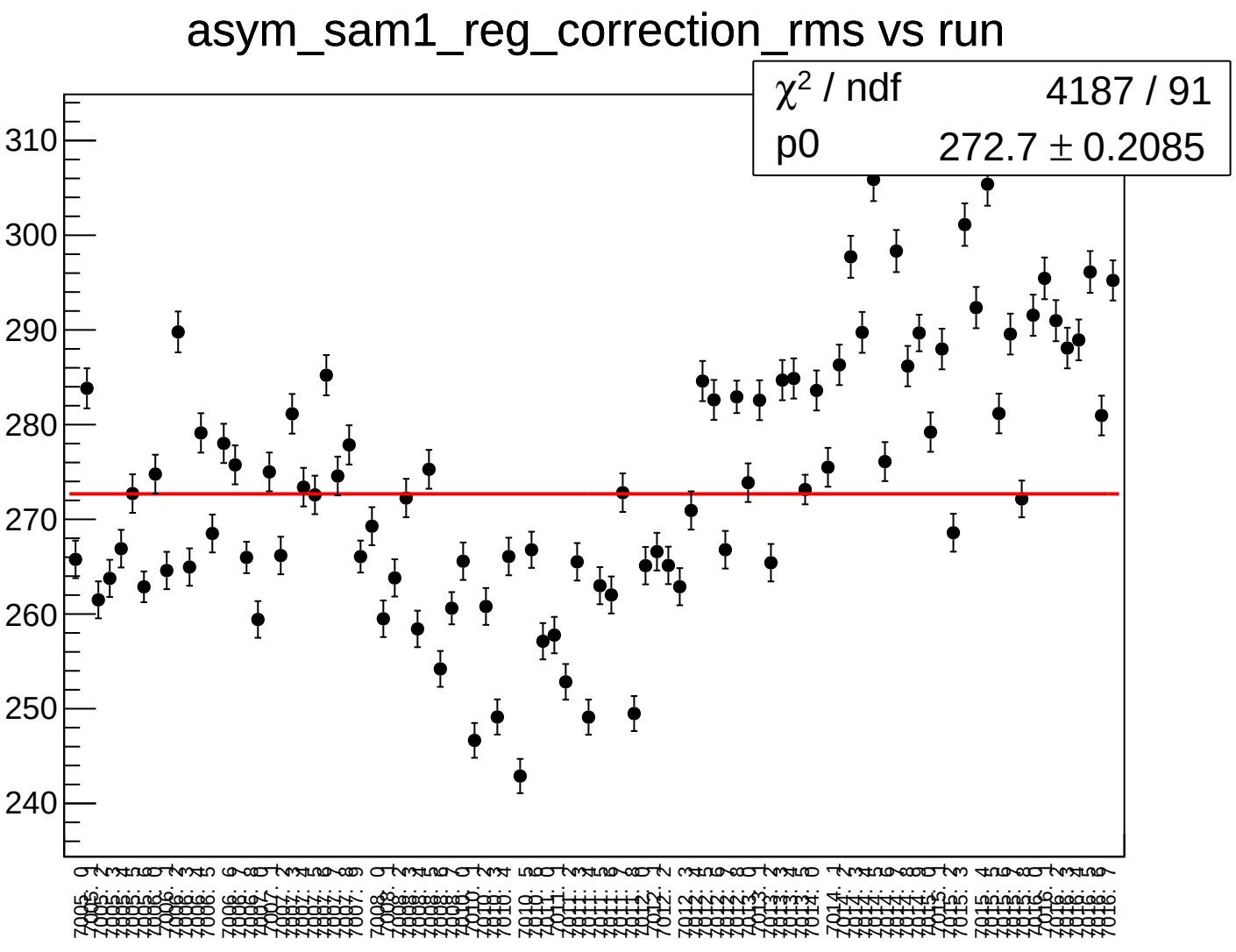

yield_sam8_mean vs run
χ² / ndf 1.103e+06 / 91
p0 9.023 ± 7.864e−06
9.045
9.04
9.035
9.03
9.025
9.02
9.015
9.01
9.005
pull
Entries 92
Mean 463.9
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 92
Mean −1.889
Std Dev 3.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

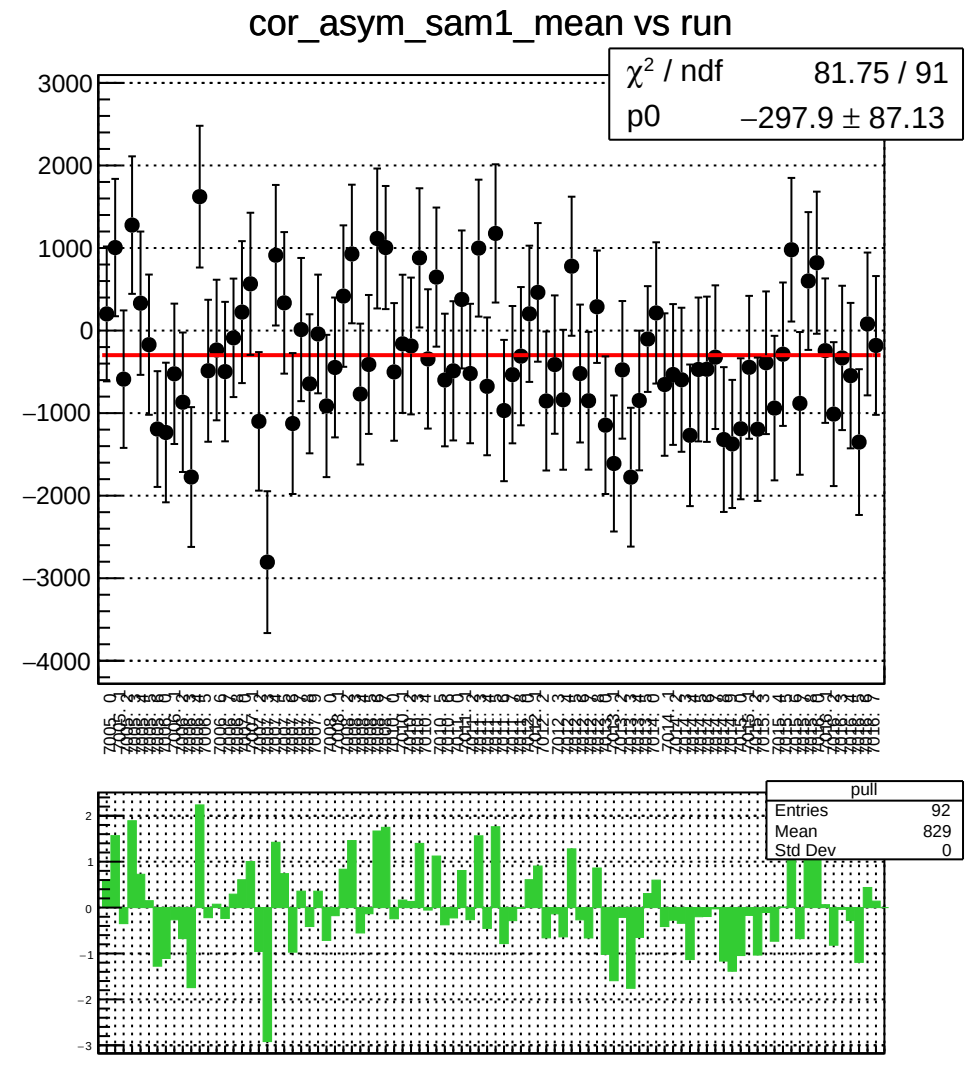

yield_sam8_rms vs run
$\chi^2$ / ndf 2.002e+05 / 91
p0 0.006845 ± 5.561e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

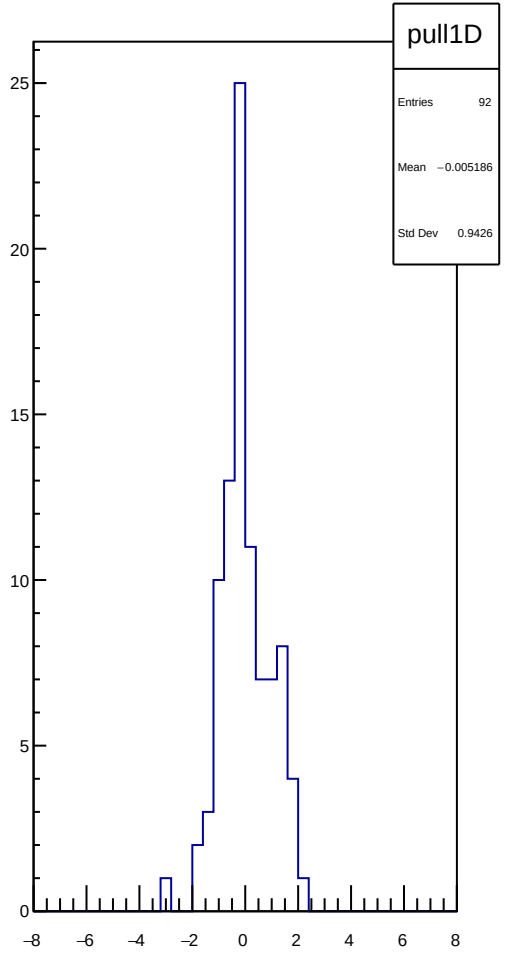

reg_asym_sam1_mean vs run
χ² / ndf 81.75 / 91
p0 −297.9 ± 87.13
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean 828.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.005188
Std Dev 0.9427
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

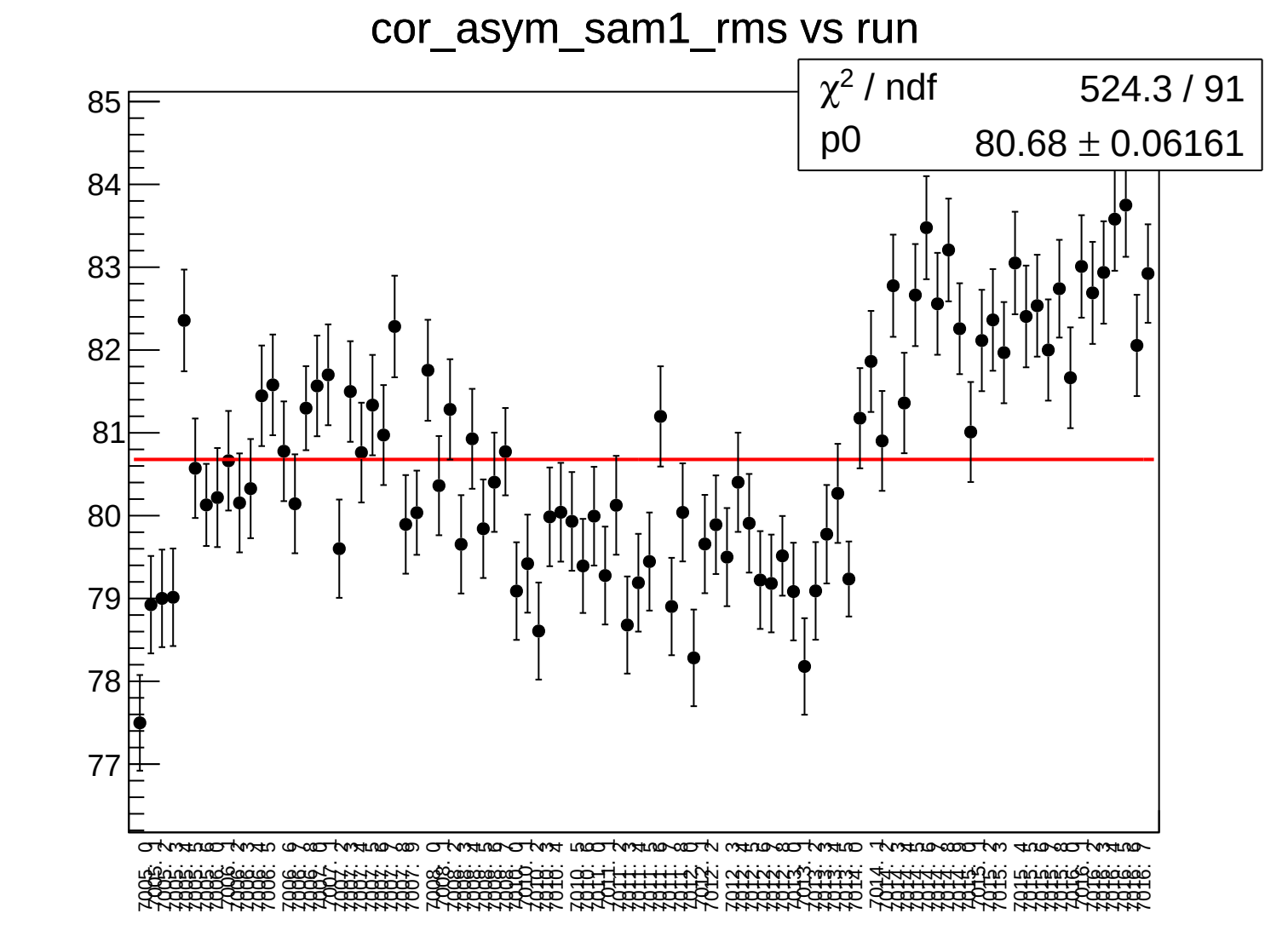

reg_asym_sam1_rms vs run
χ² / ndf 524.3 / 91
p0 80.68 ± 0.06161
85
84
83
82
81
80
79
78
77

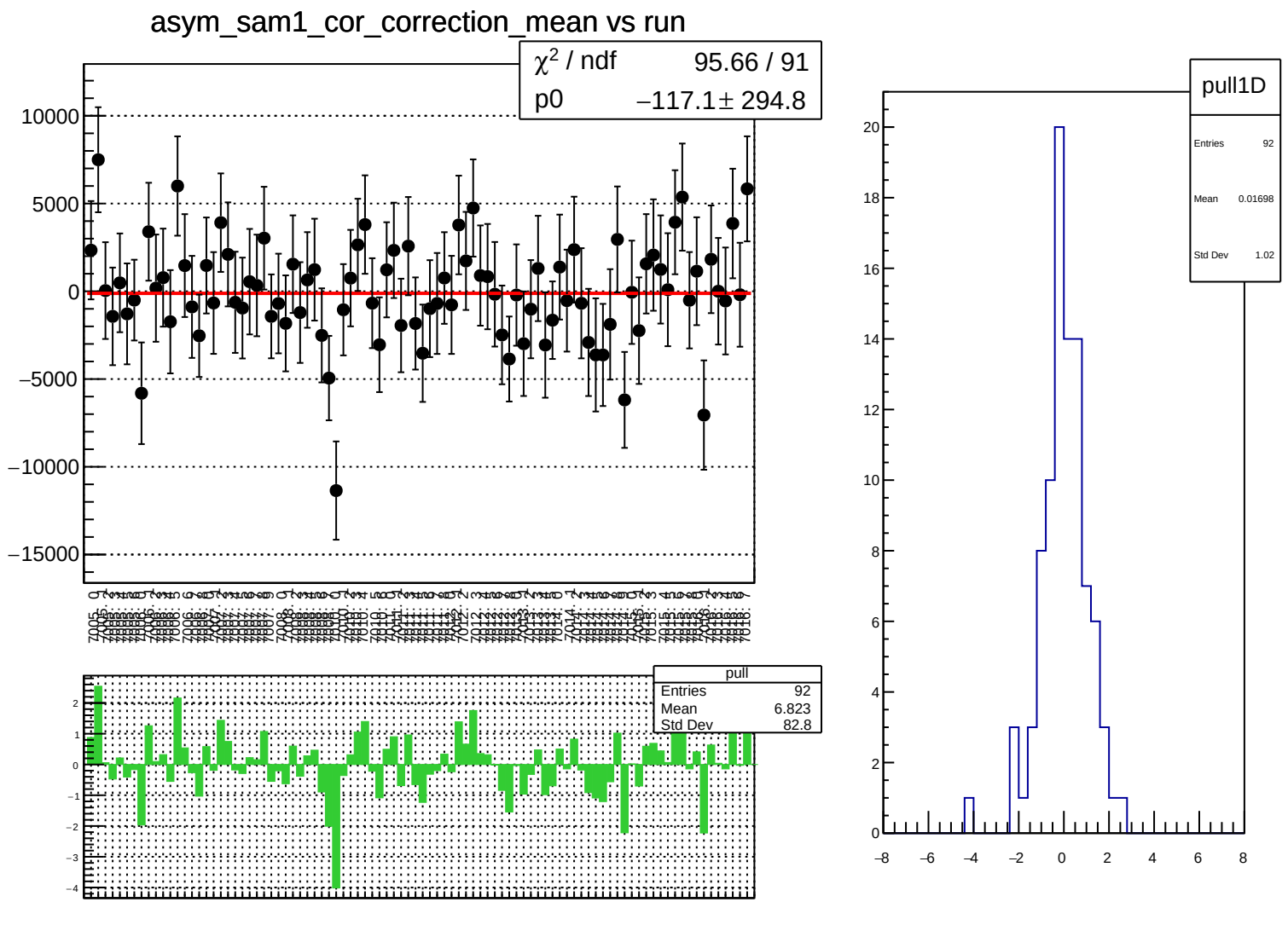

asym_sam1_reg_correction_mean vs run
χ² / ndf 95.66 / 91
p0 −117.1± 294.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 6.8
Std Dev 82.79
2
1
0
−1
−2
−3
−4
pull1D
Entries 92
Mean 0.01698
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

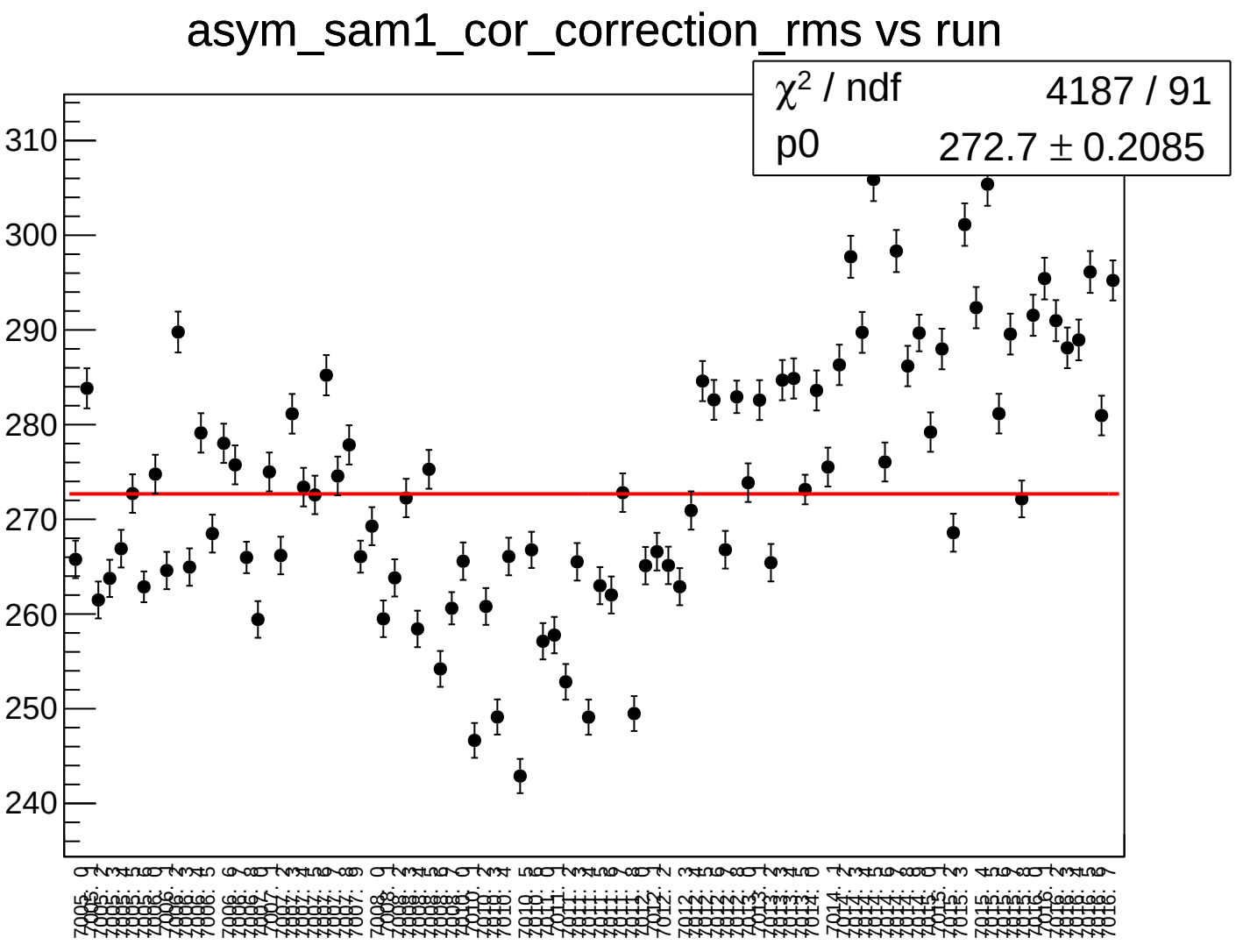

asym_sam1_reg_correction_rms vs run
χ² / ndf 4187 / 91
p0 272.7 ± 0.2085
310
300
290
280
270
260
250
240

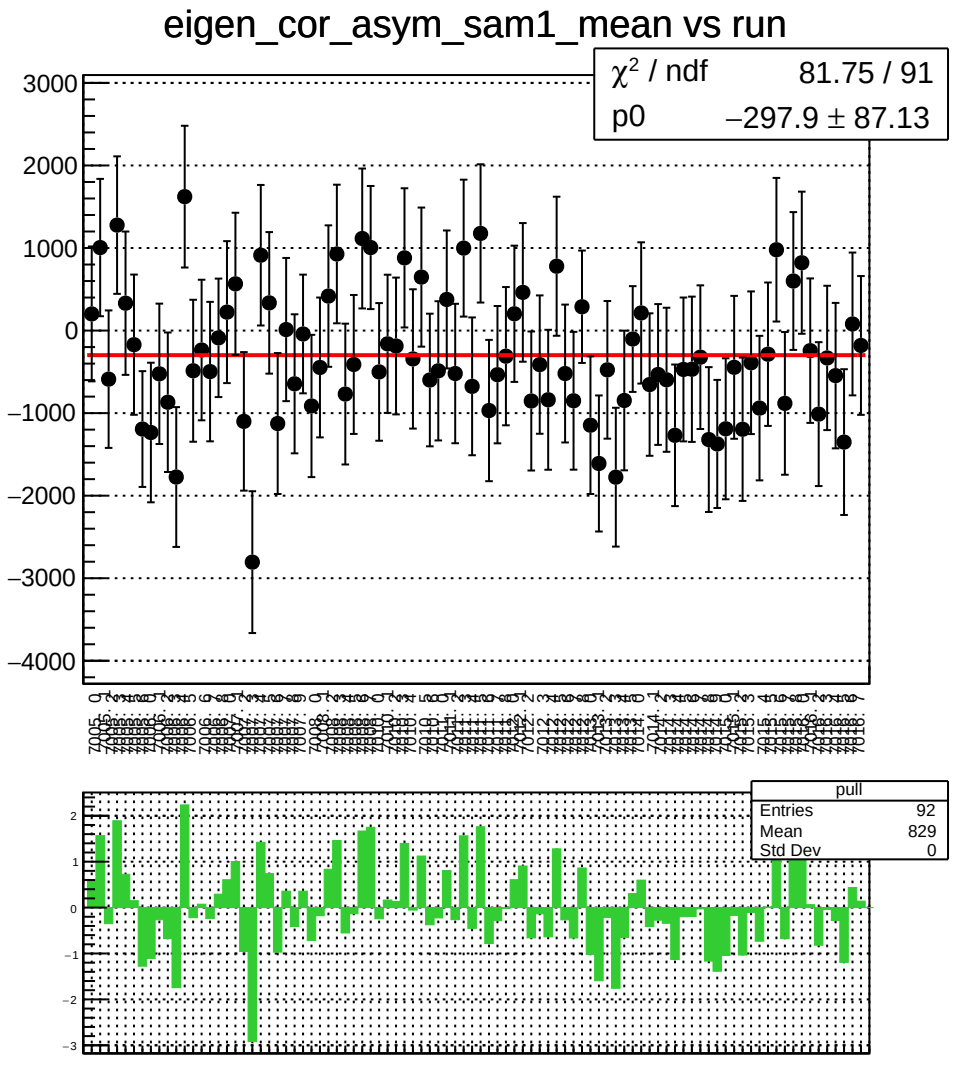

cor_asym_sam1_mean vs run
χ² / ndf 81.75 / 91
p0 −297.9 ± 87.13
pull
Entries 92
Mean 829
Std Dev 0

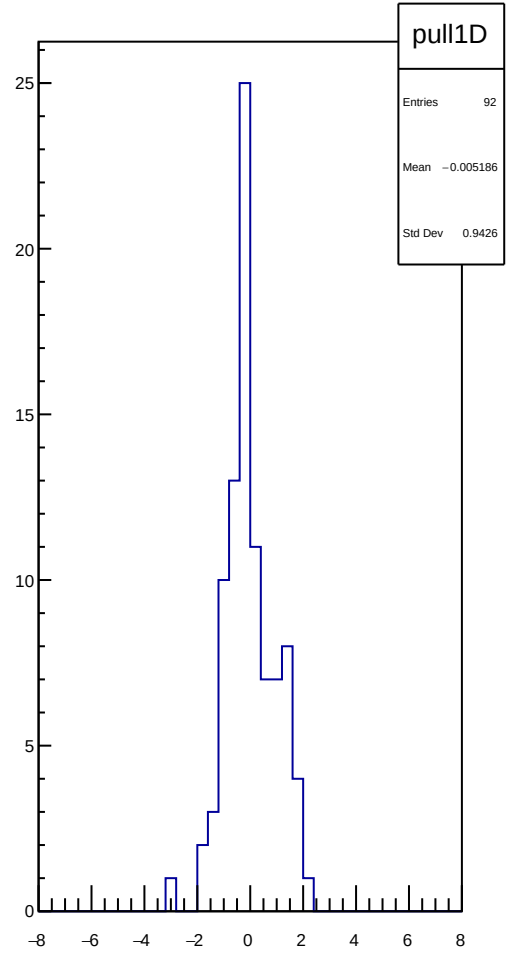

pull1D
Entries 92
Mean −0.005186
Std Dev 0.9426

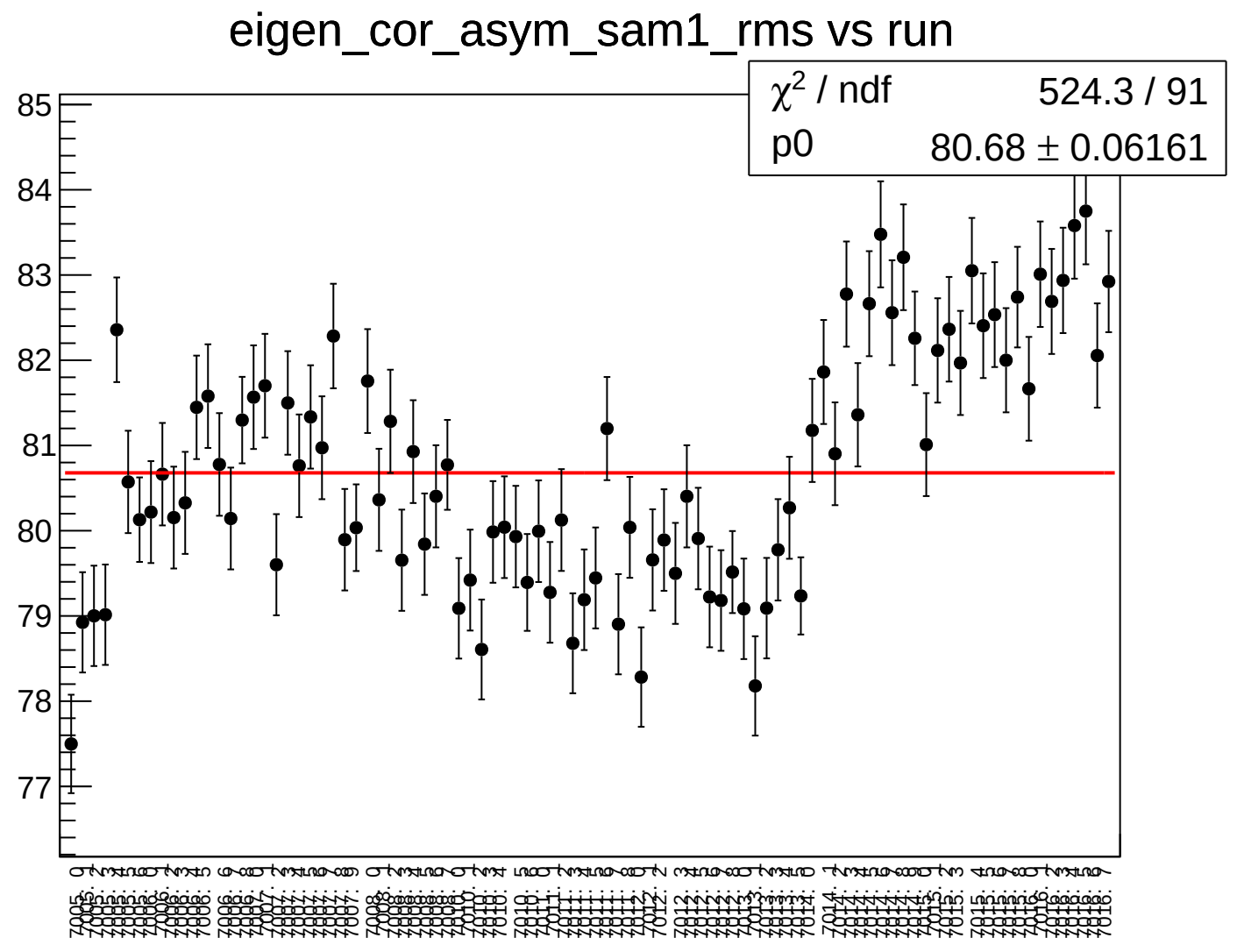

cor_asym_sam1_rms vs run
χ² / ndf 524.3 / 91
p0 80.68 ± 0.06161
85
84
83
82
81
80
79
78
77

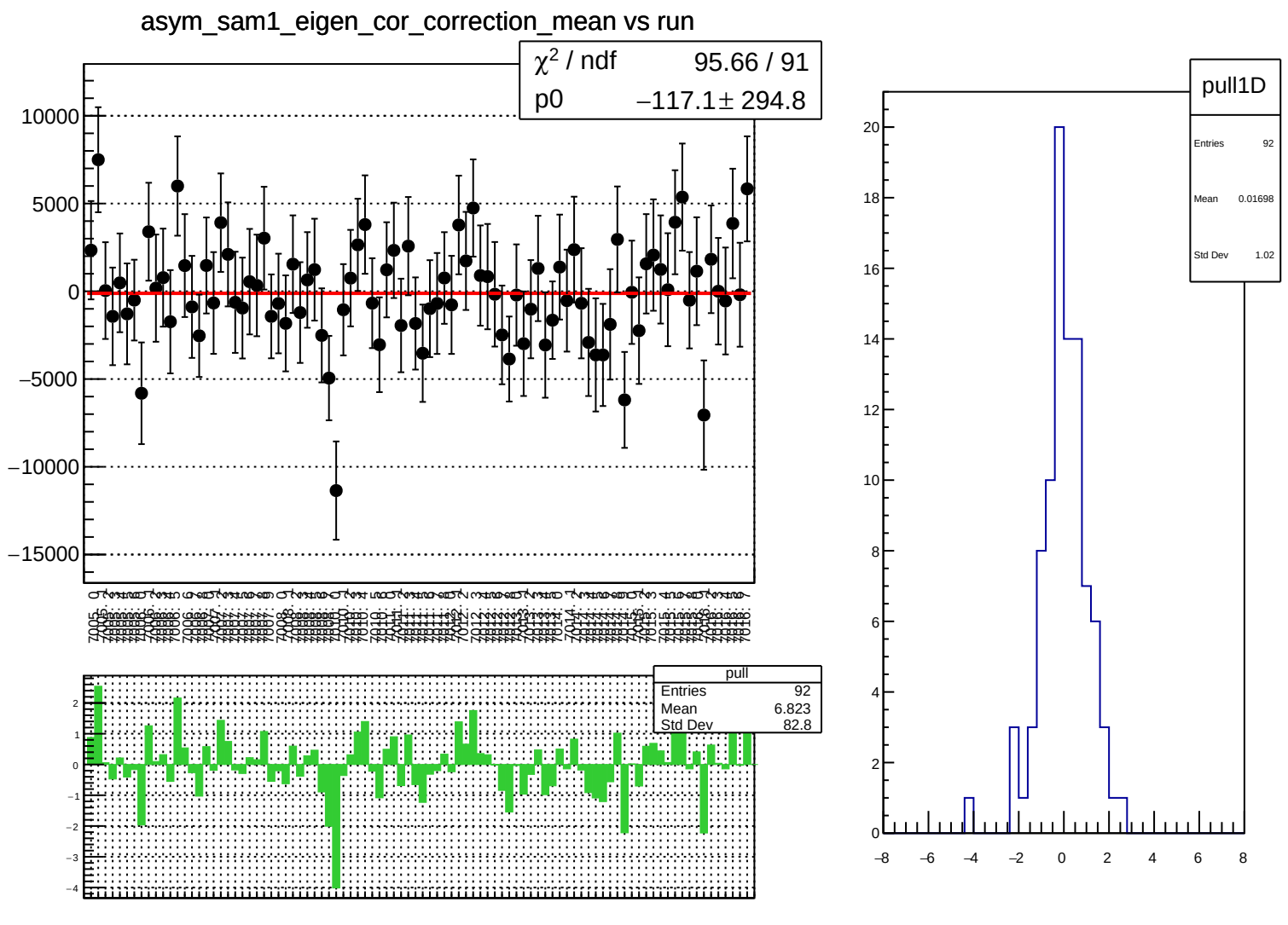

asym_sam1_cor_correction_mean vs run
χ² / ndf 95.66 / 91
p0 −117.1± 294.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 6.823
Std Dev 82.8
pull1D
Entries 92
Mean 0.01698
Std Dev 1.02

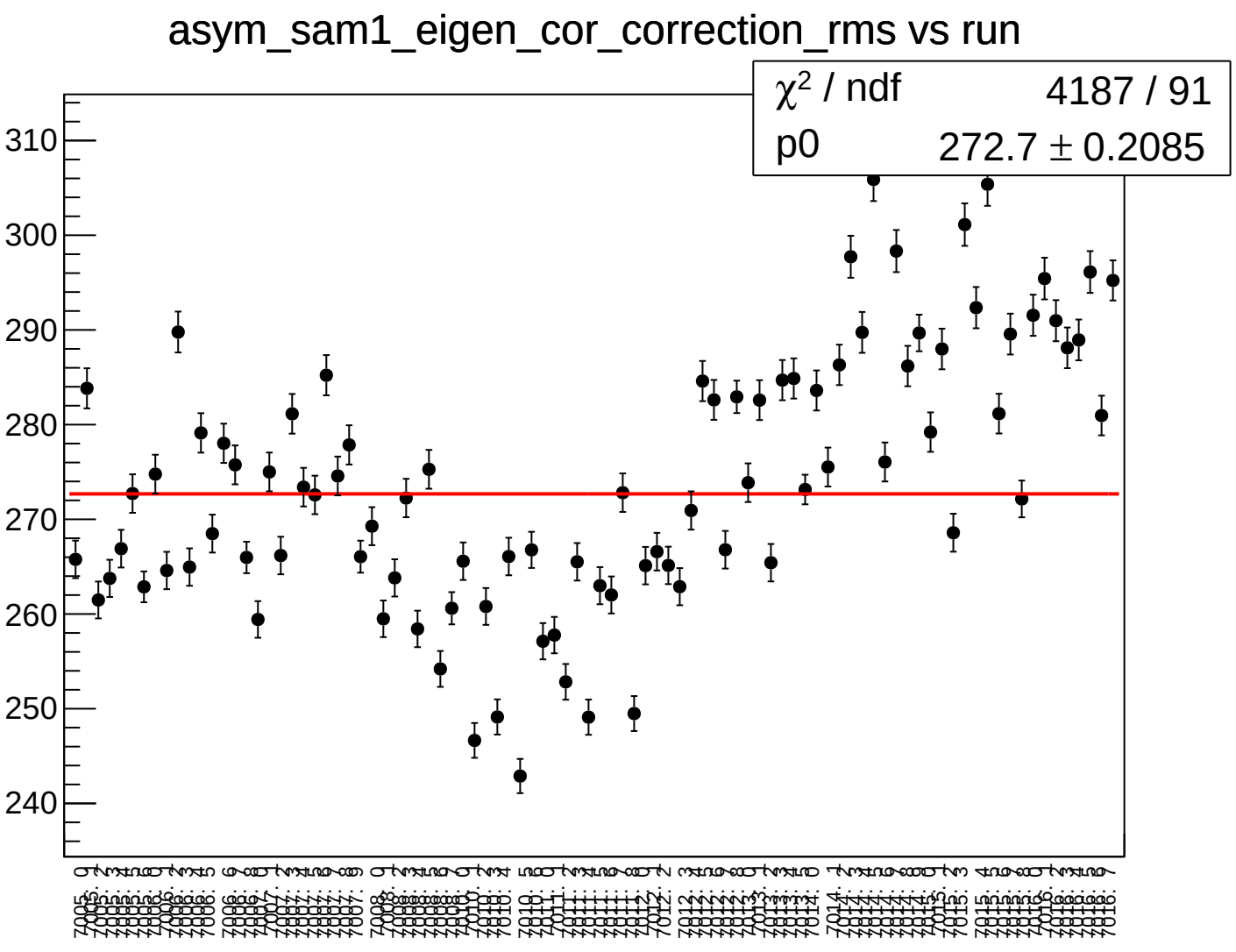

asym_sam1_cor_correction_rms vs run
χ² / ndf 4187 / 91
p0 272.7 ± 0.2085
310
300
290
280
270
260
250
240

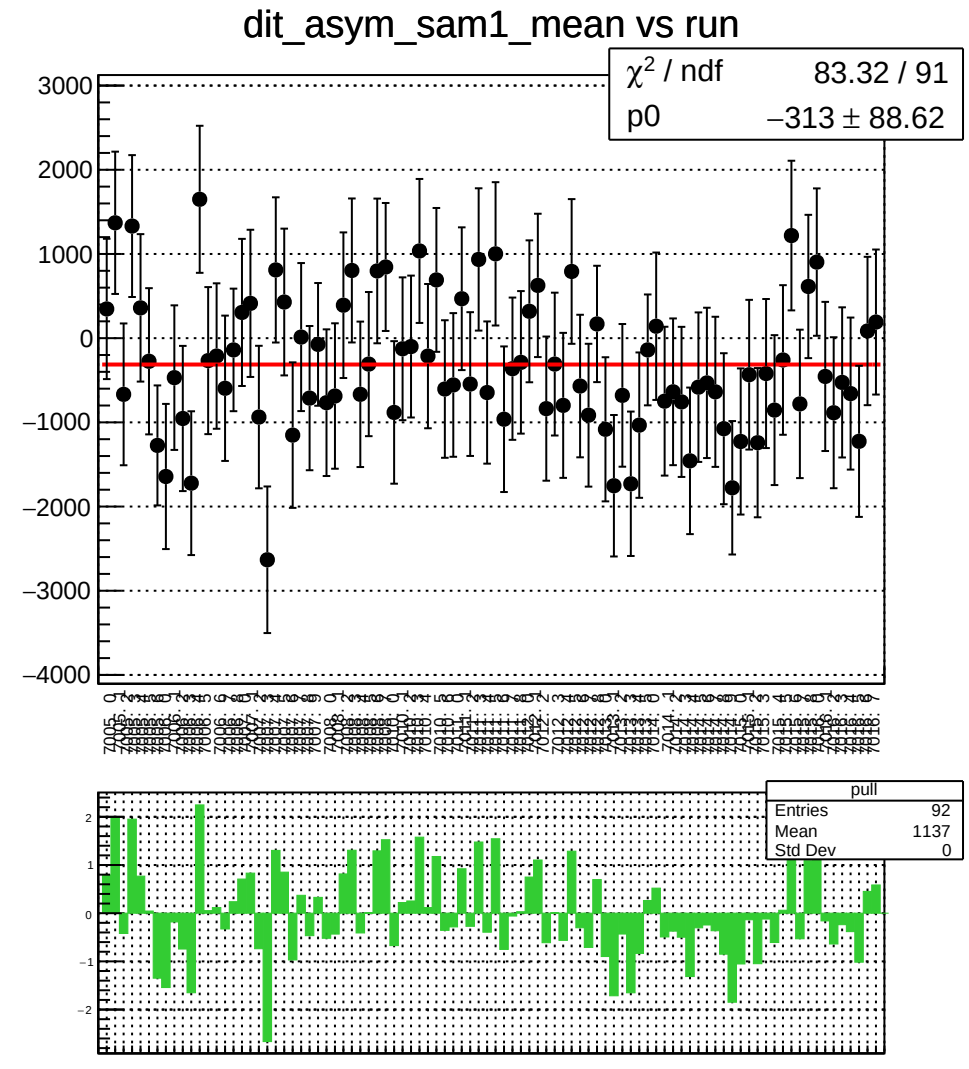

eigen_cor_asym_sam1_mean vs run
χ² / ndf 81.75 / 91
p0 −297.9 ± 87.13
pull
Entries 92
Mean 829
Std Dev 0

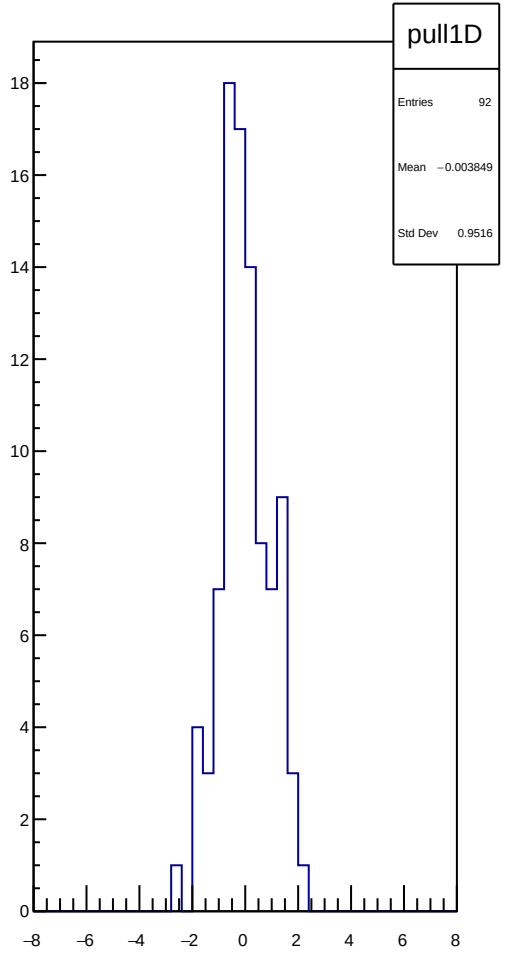

pull1D
Entries 92
Mean −0.005186
Std Dev 0.9426

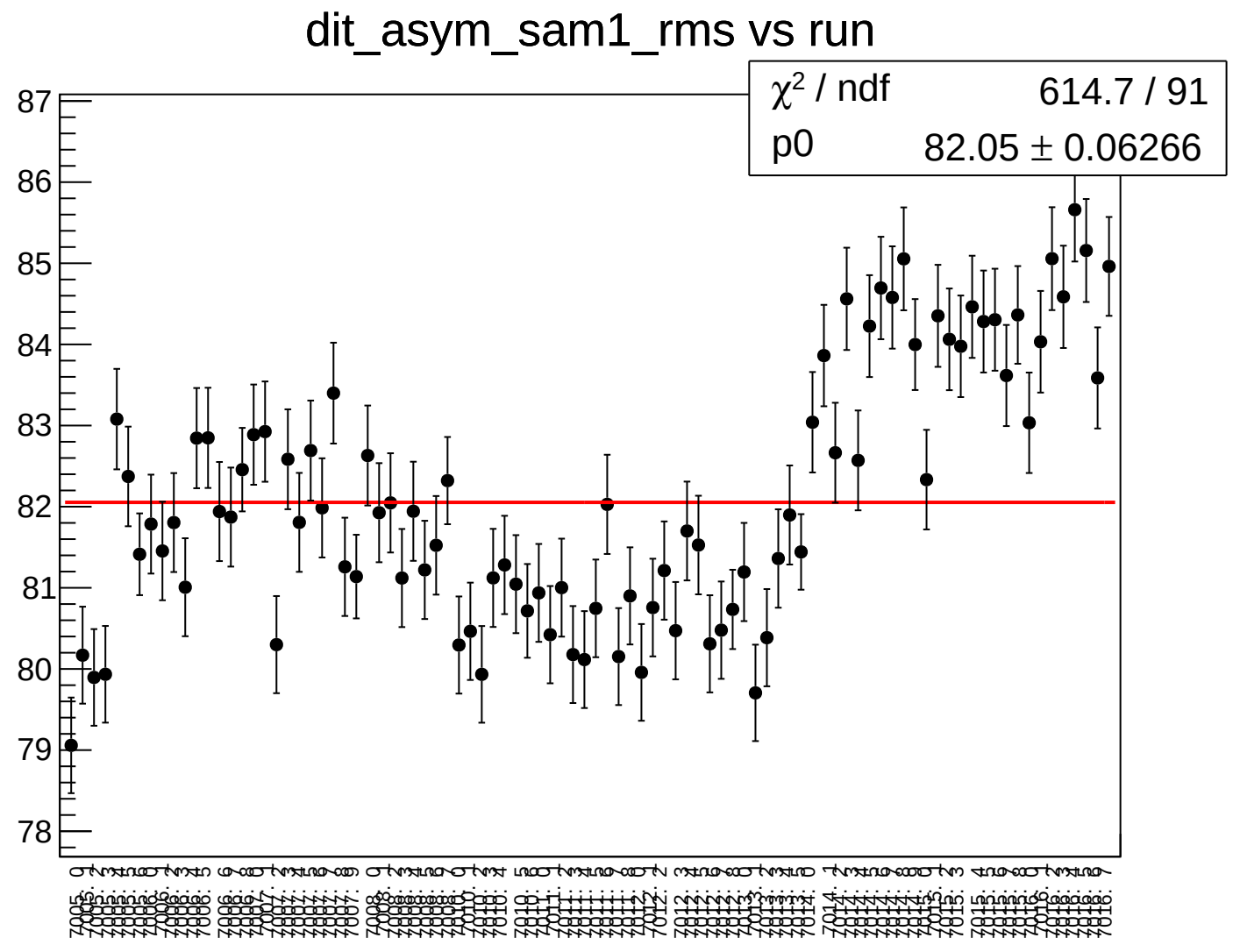

eigen_cor_asym_sam1_rms vs run
χ² / ndf 524.3 / 91
p0 80.68 ± 0.06161
85
84
83
82
81
80
79
78
77

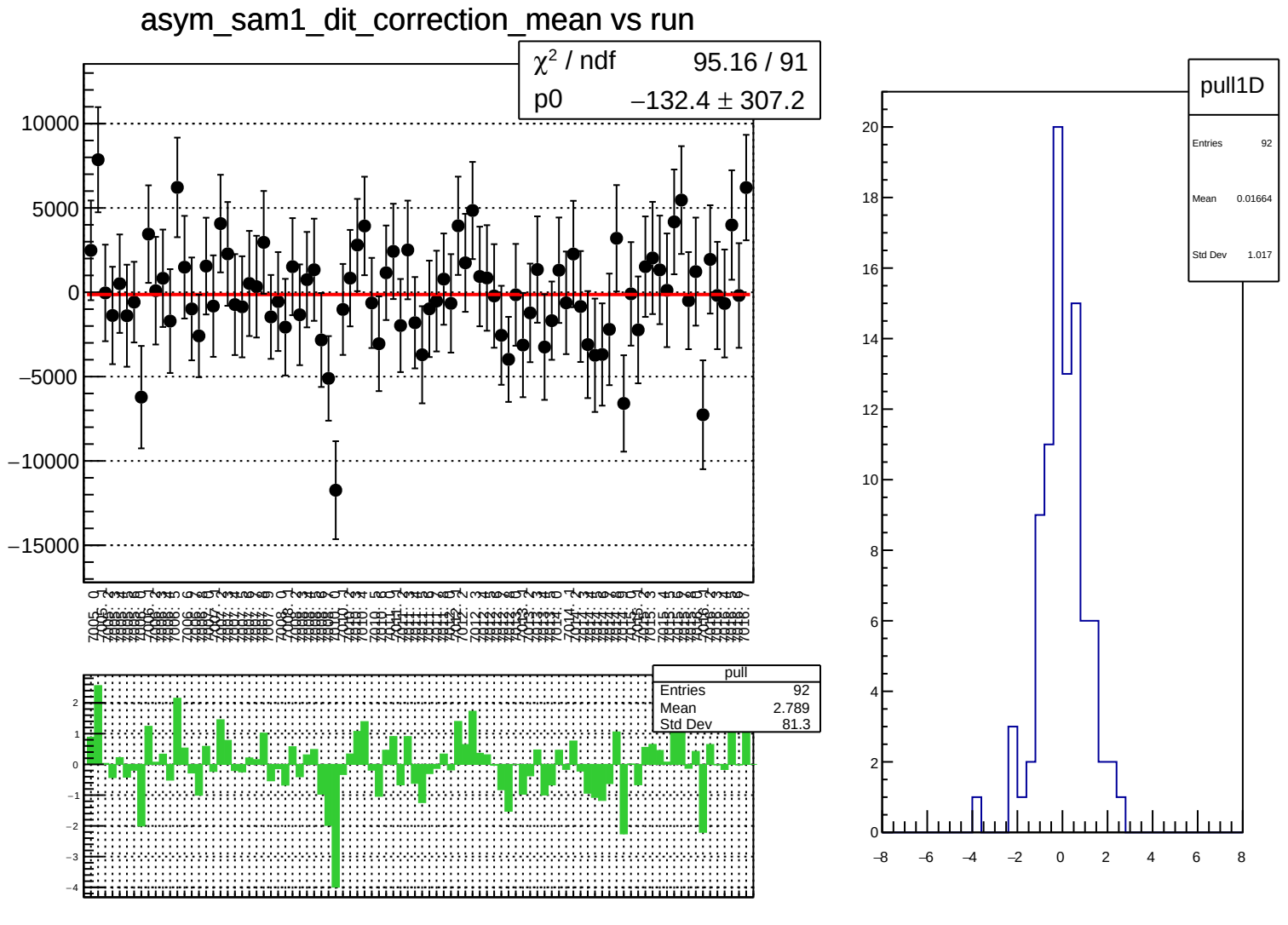

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 95.66 / 91
p0 −117.1± 294.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 6.823
Std Dev 82.8
2
1
0
−1
−2
−3
−4
pull1D
Entries 92
Mean 0.01698
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

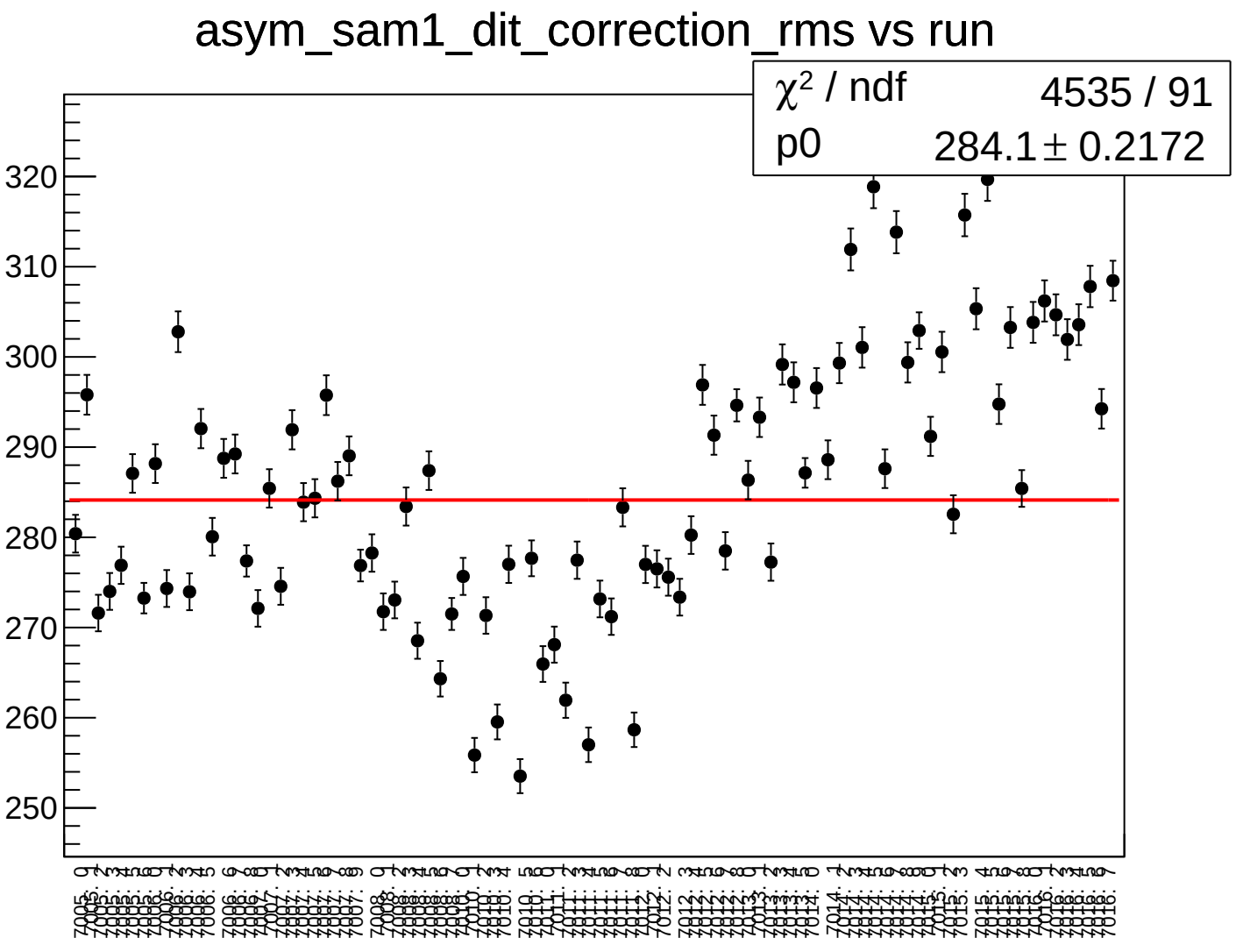

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 4187 / 91
p0 272.7 ± 0.2085
310
300
290
280
270
260
250
240

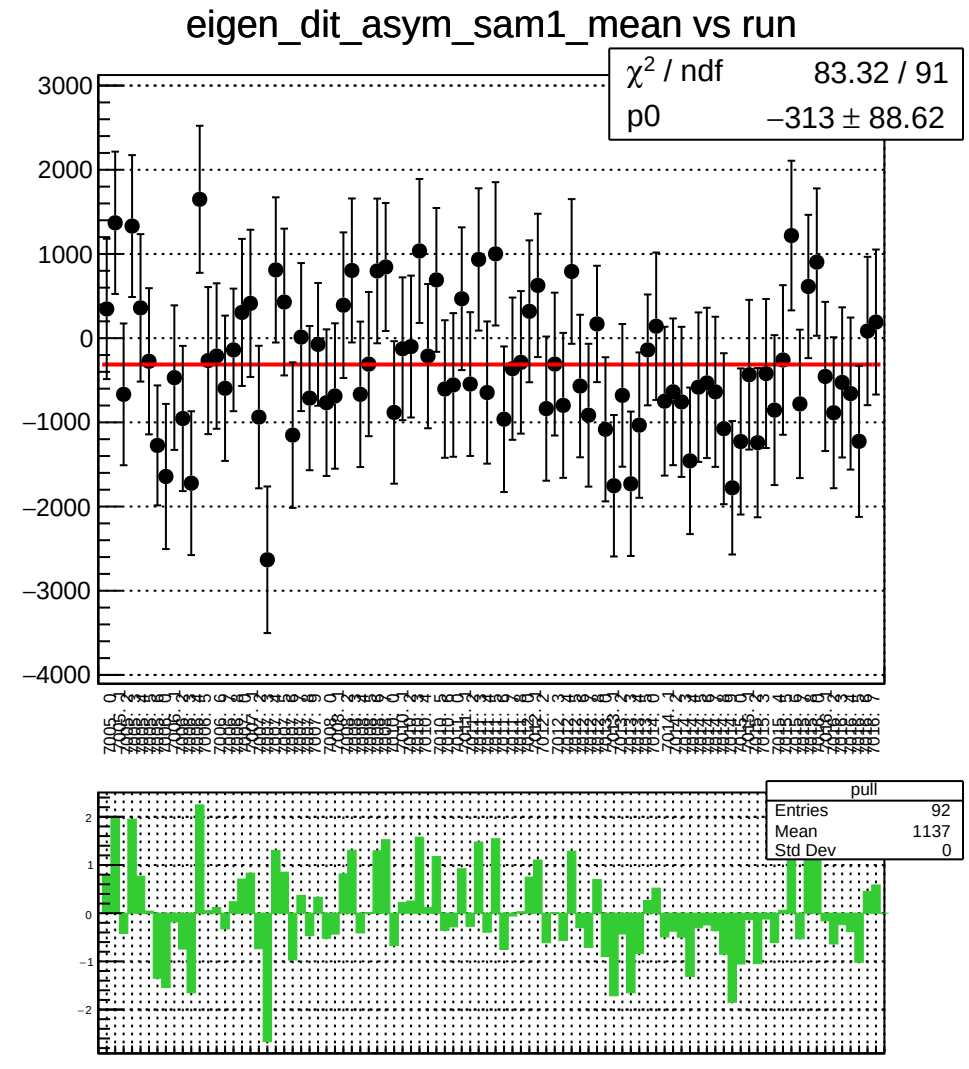

dit_asym_sam1_mean vs run
χ² / ndf 83.32 / 91
p0 −313 ± 88.62
pull
Entries 92
Mean 1137
Std Dev 0

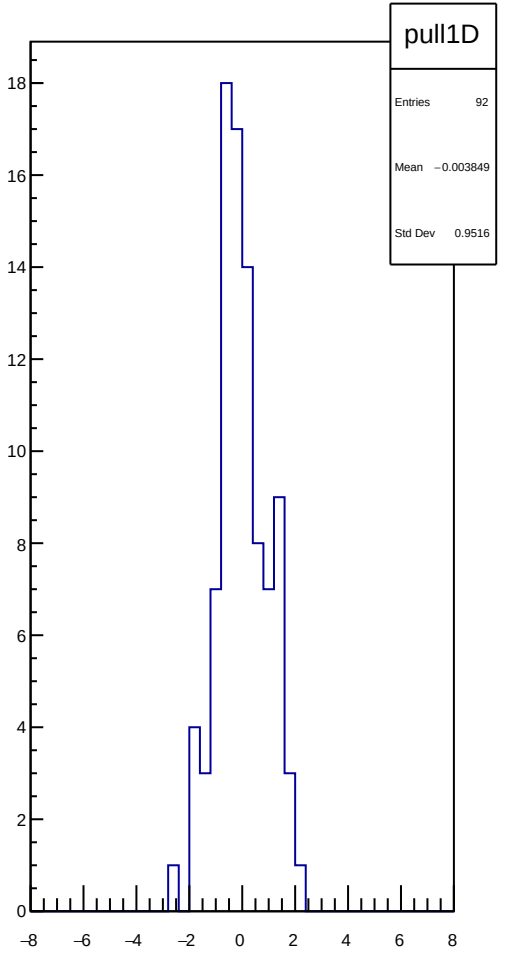

pull1D
Entries 92
Mean −0.003849
Std Dev 0.9516

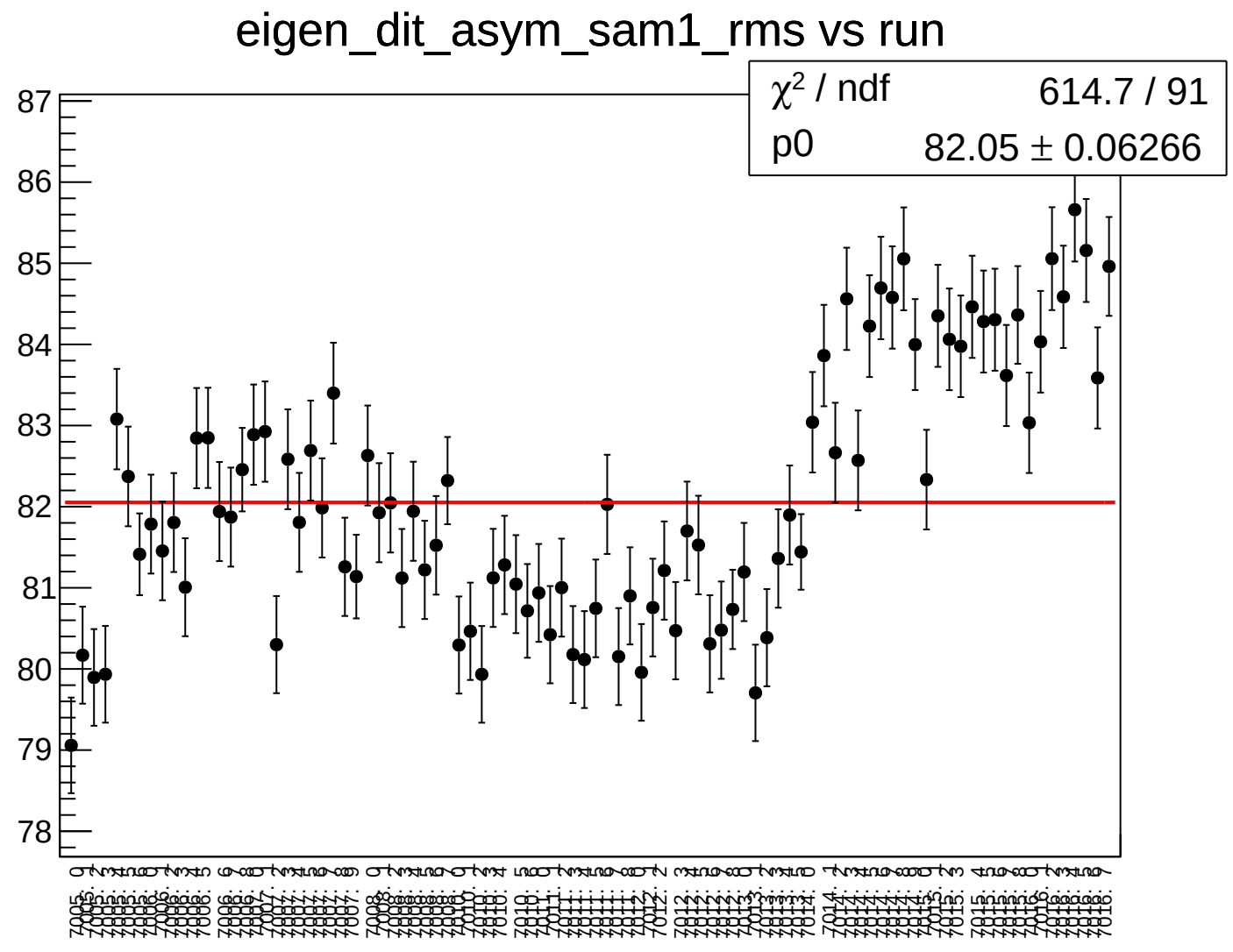

dit_asym_sam1_rms vs run
χ² / ndf 614.7 / 91
p0 82.05 ± 0.06266
87
86
85
84
83
82
81
80
79
78

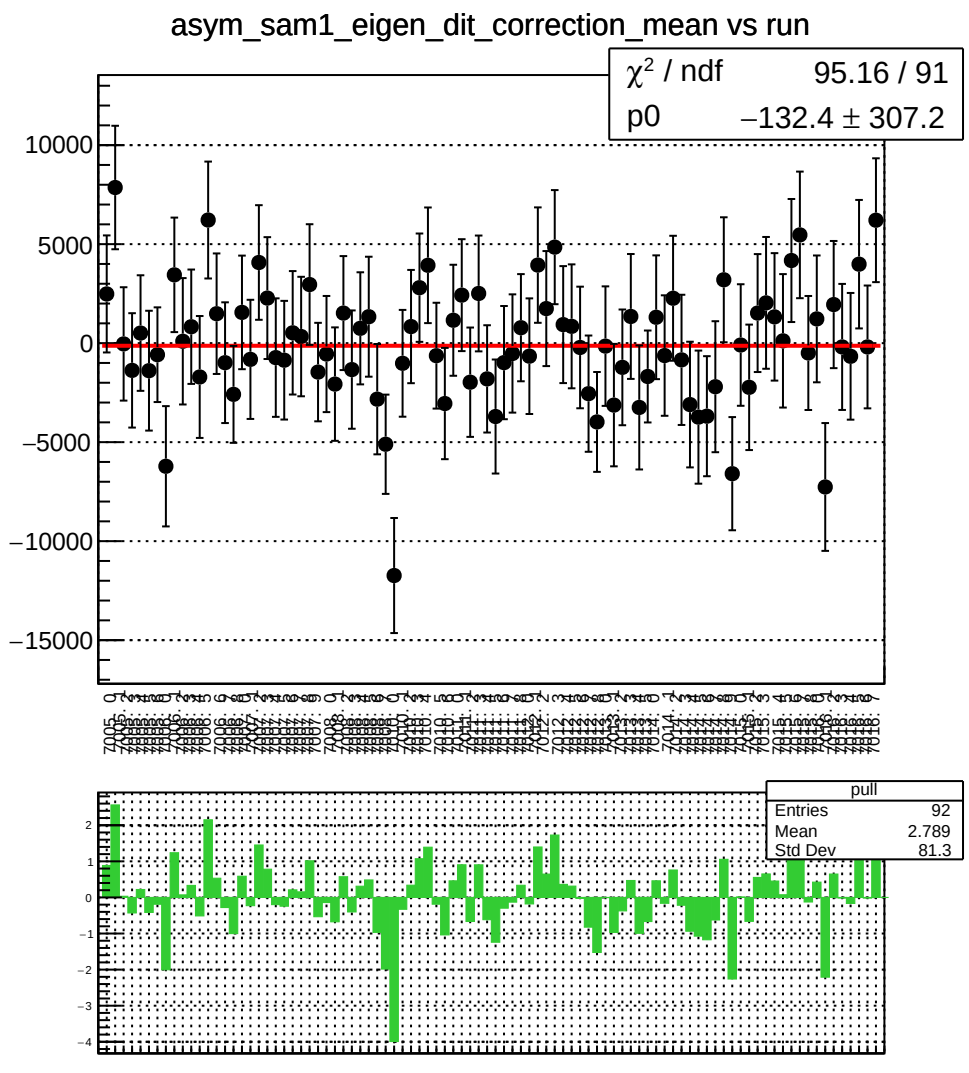

asym_sam1_dit_correction_mean vs run
χ² / ndf 95.16 / 91
p0 −132.4 ± 307.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 2.789
Std Dev 81.3
pull1D
Entries 92
Mean 0.01664
Std Dev 1.017

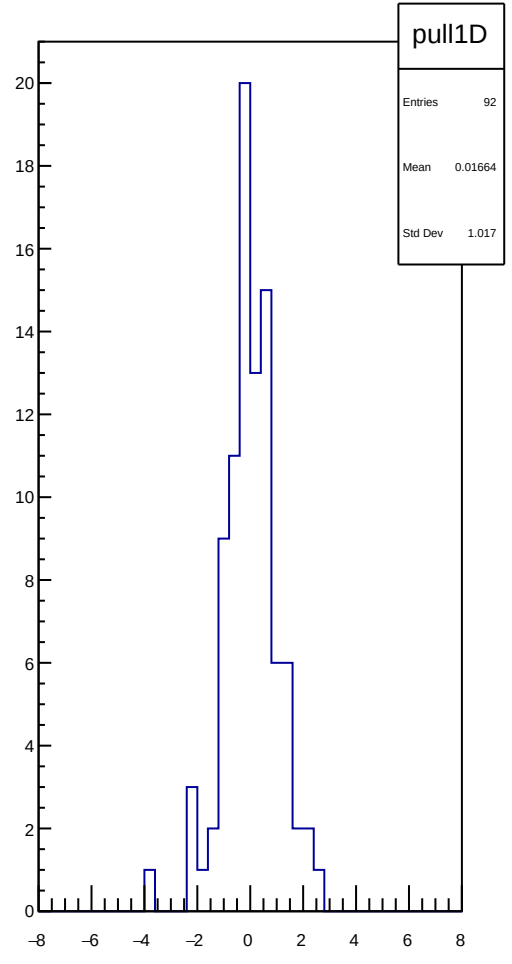

asym_sam1_dit_correction_rms vs run
χ² / ndf 4535 / 91
p0 284.1 ± 0.2172
320
310
300
290
280
270
260
250

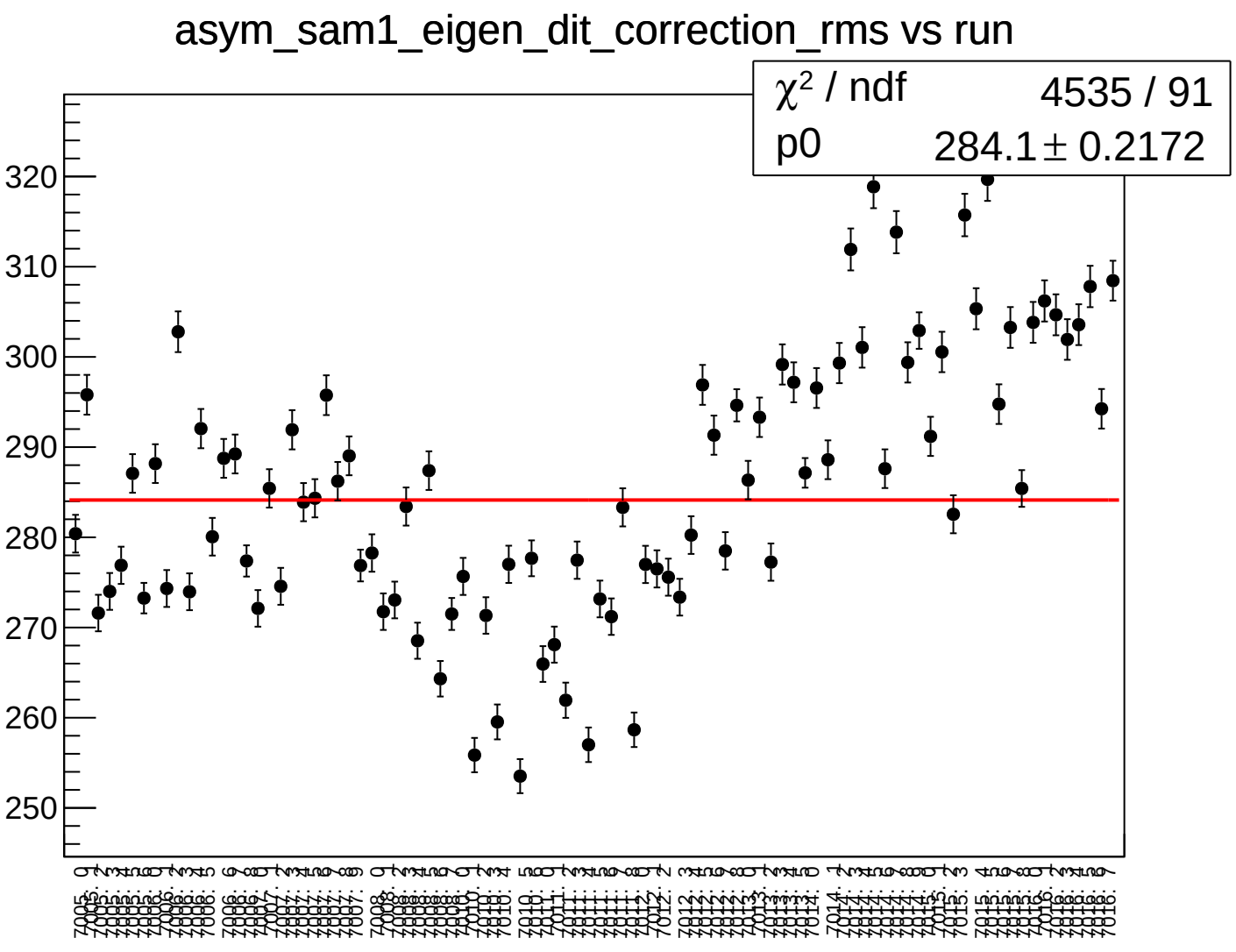

eigen_dit_asym_sam1_mean vs run
χ² / ndf 83.32 / 91
p0 −313 ± 88.62
pull
Entries 92
Mean 1137
Std Dev 0

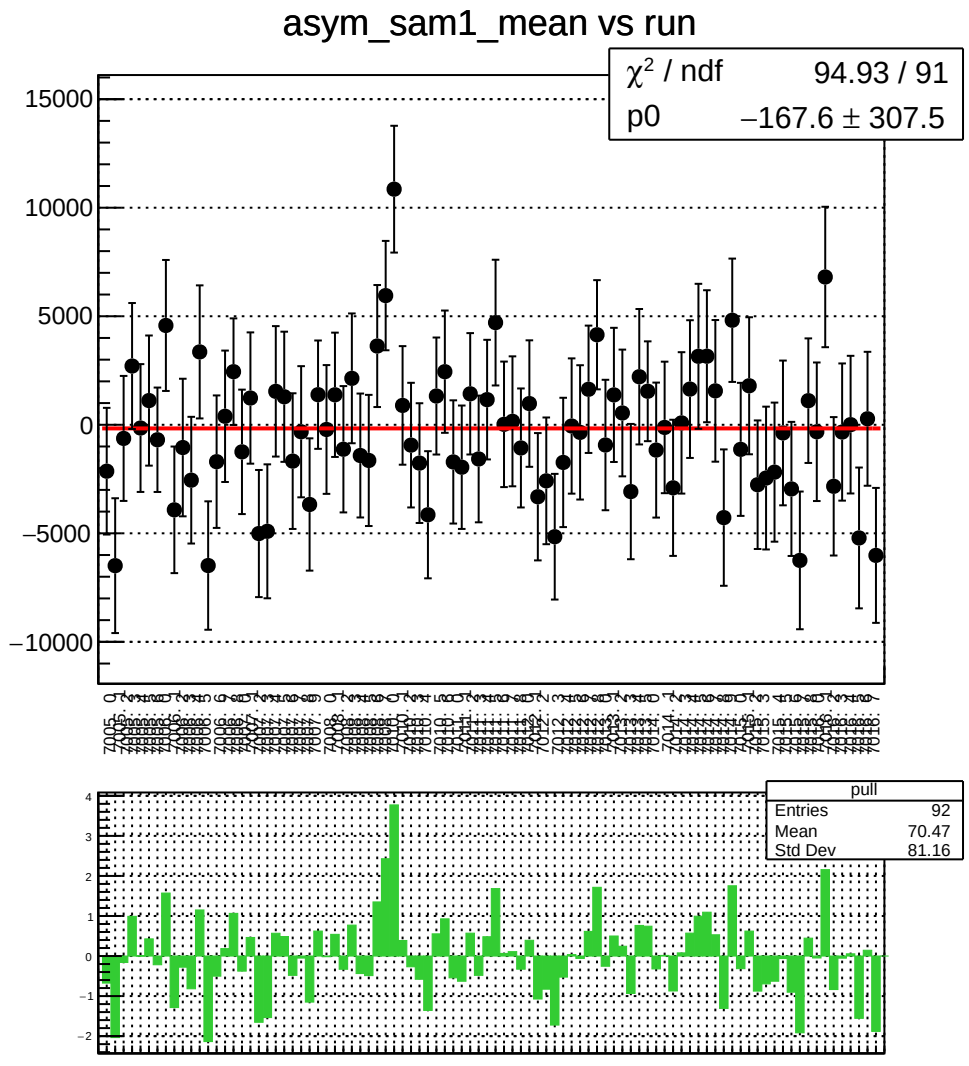

pull1D
Entries 92
Mean −0.003849
Std Dev 0.9516

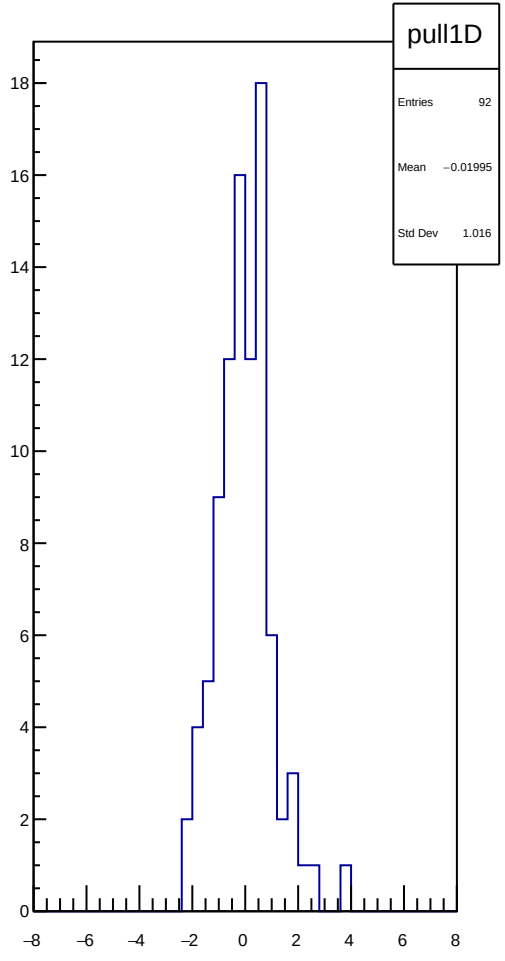

eigen_dit_asym_sam1_rms vs run
χ² / ndf 614.7 / 91
p0 82.05 ± 0.06266
87
86
85
84
83
82
81
80
79
78

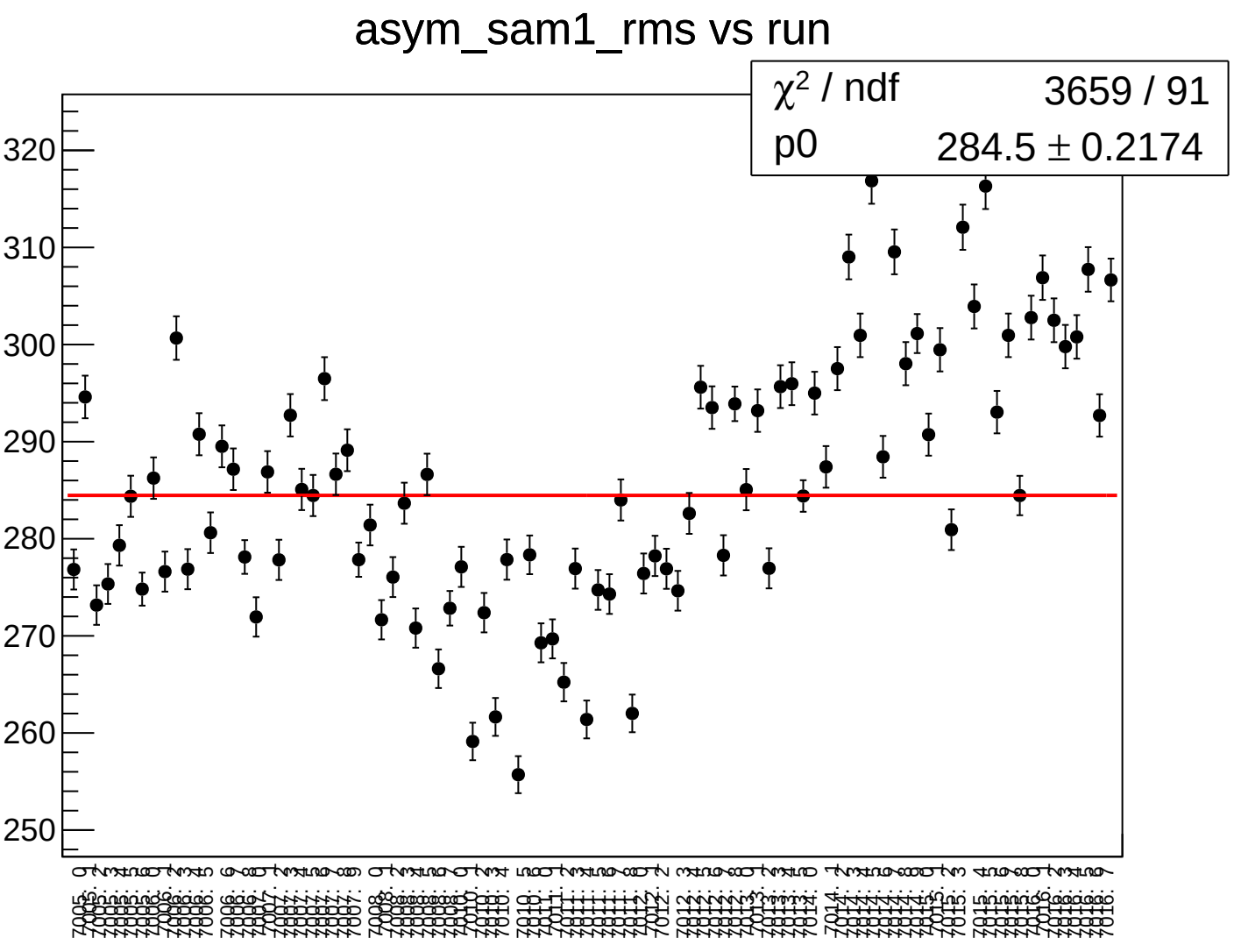

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 95.16 / 91
p0 −132.4 ± 307.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 2.789
Std Dev 81.3
2
1
0
−1
−2
−3
−4

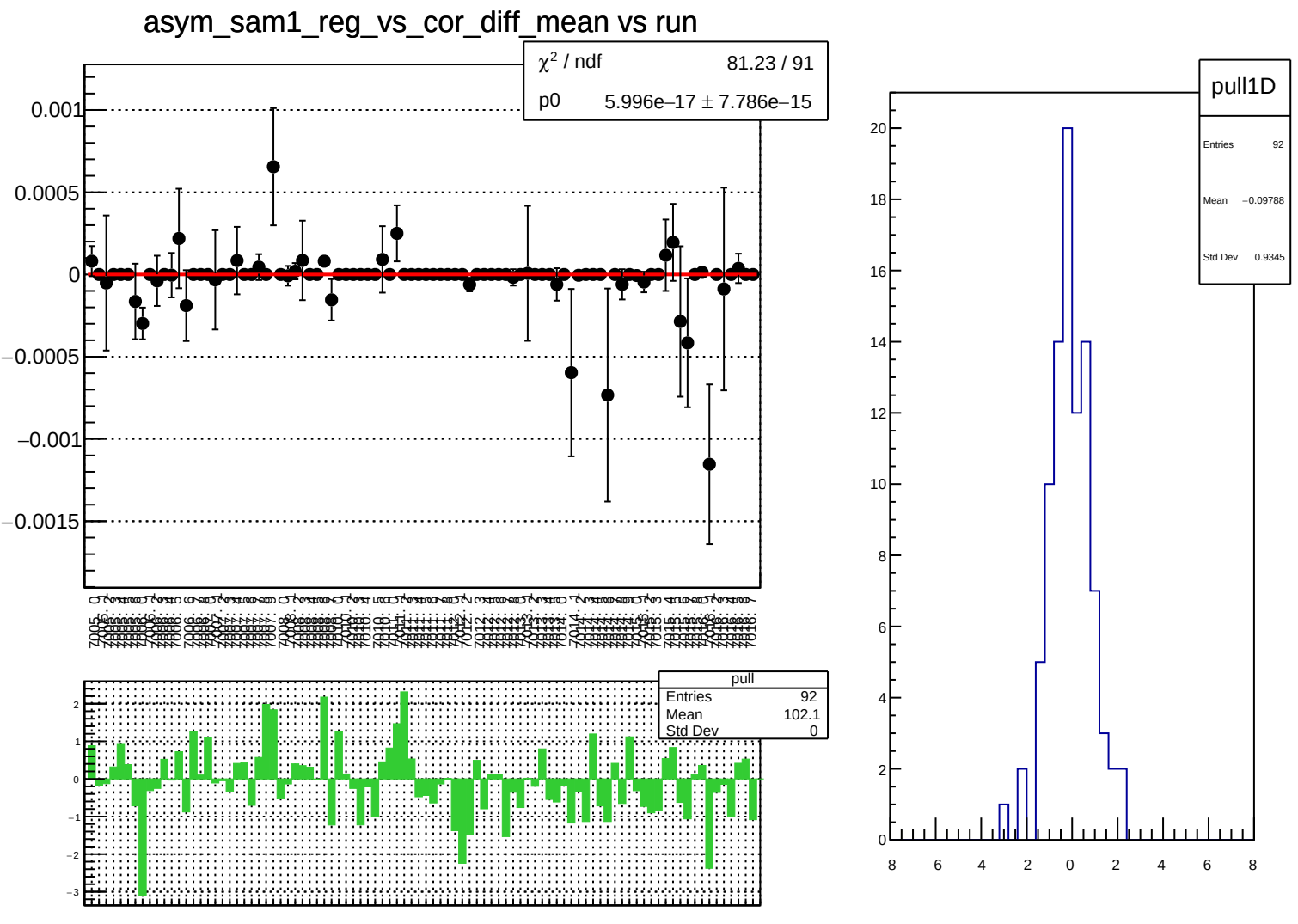

pull1D
Entries 92
Mean 0.01664
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

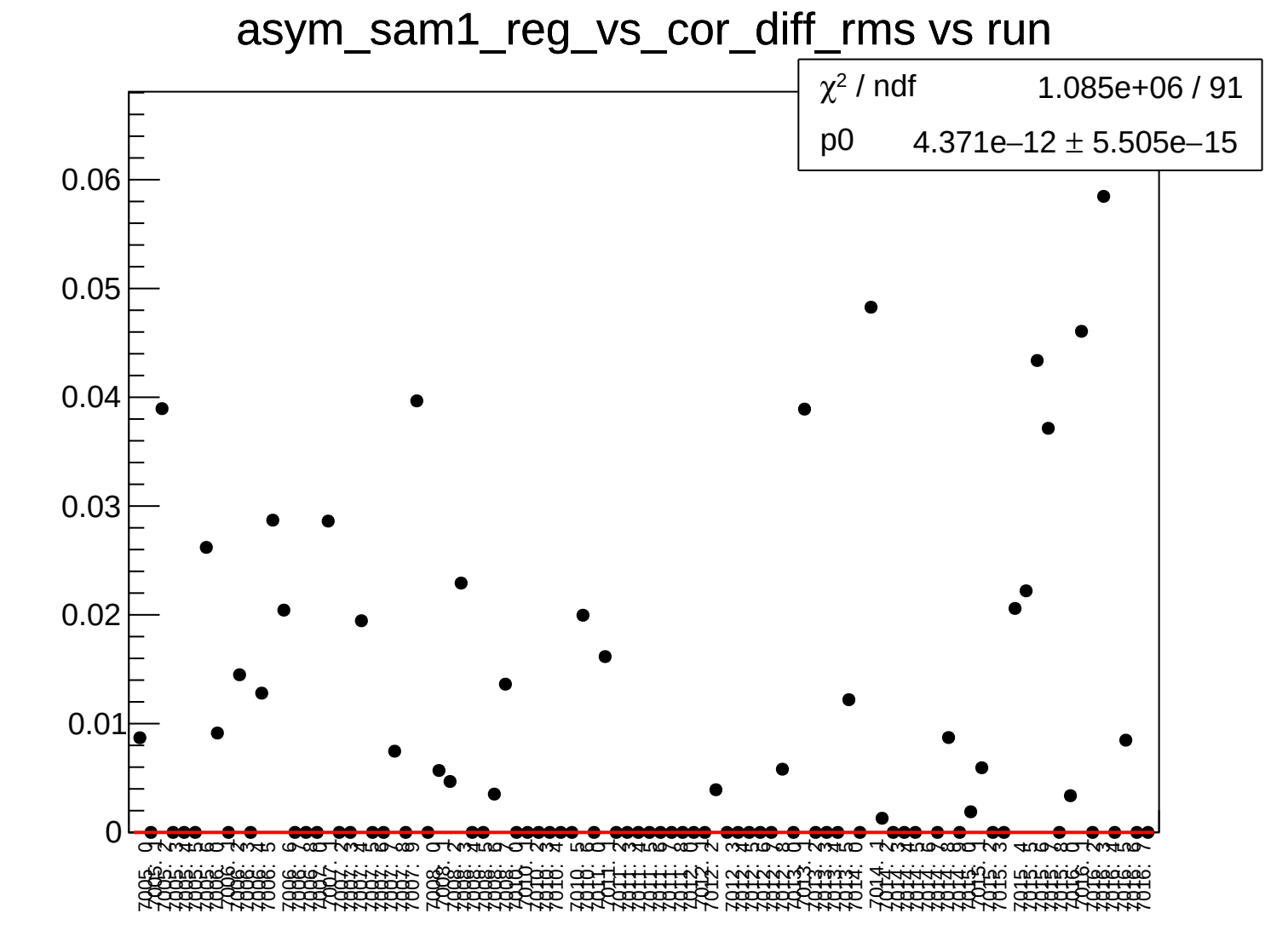

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 4535 / 91
p0 284.1 ± 0.2172
320
310
300
290
280
270
260
250

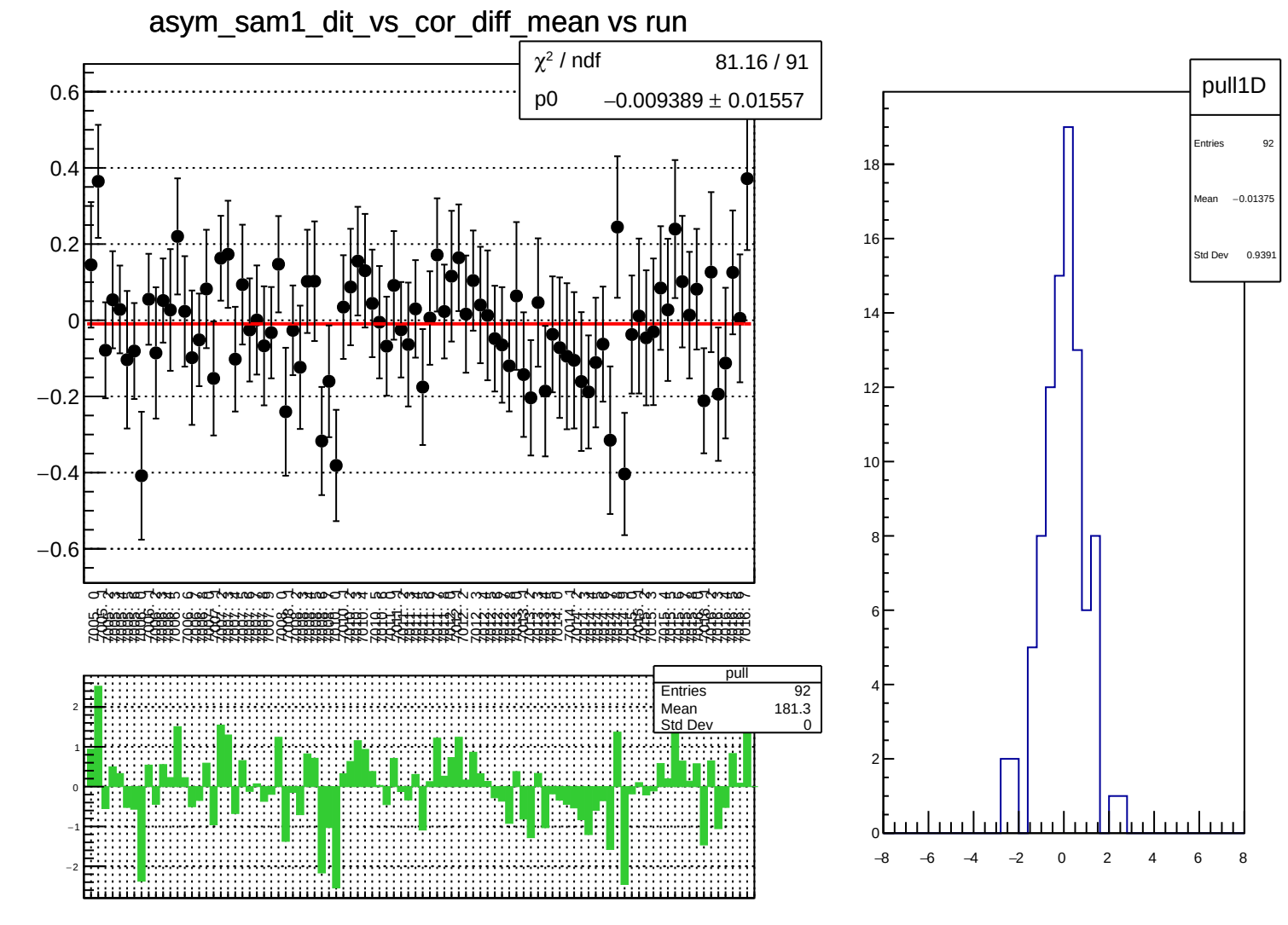

asym_sam1_mean vs run
χ² / ndf 94.93 / 91
p0 −167.6 ± 307.5
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 70.47
Std Dev 81.16
4
3
2
1
0
−1
−2

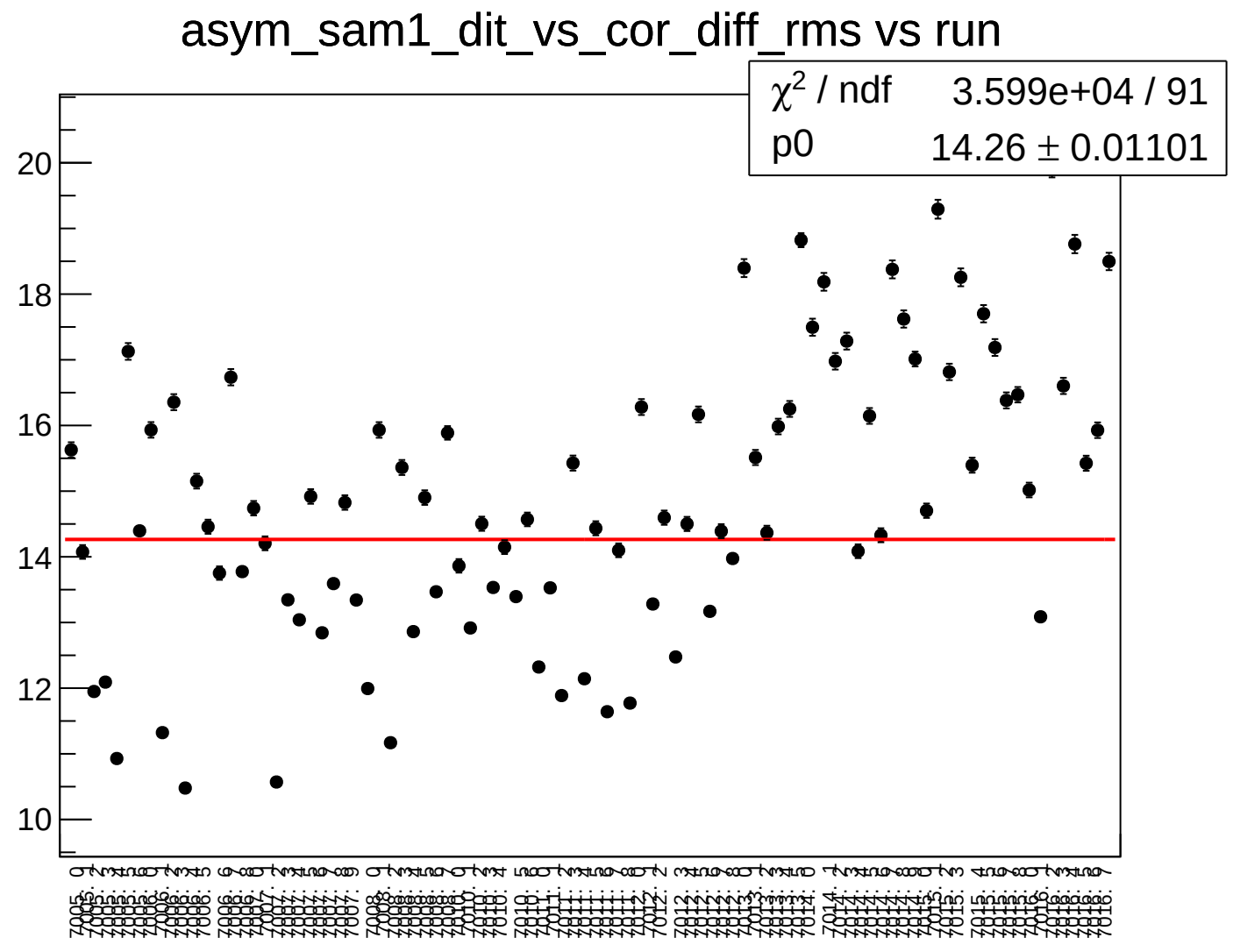

pull1D
Entries 92
Mean −0.01995
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

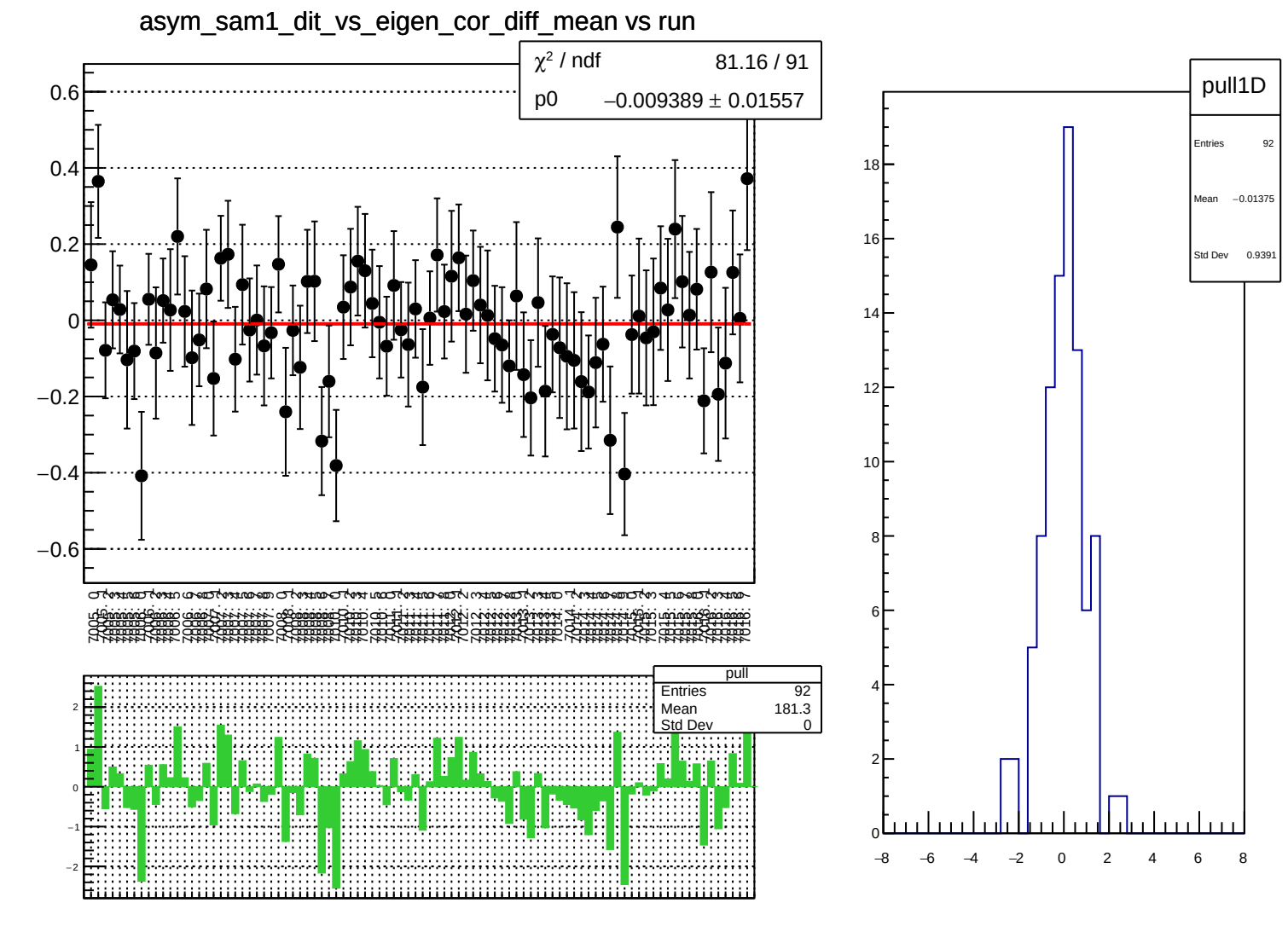

asym_sam1_rms vs run
χ² / ndf 3659 / 91
p0 284.5 ± 0.2174
320
310
300
290
280
270
260
250

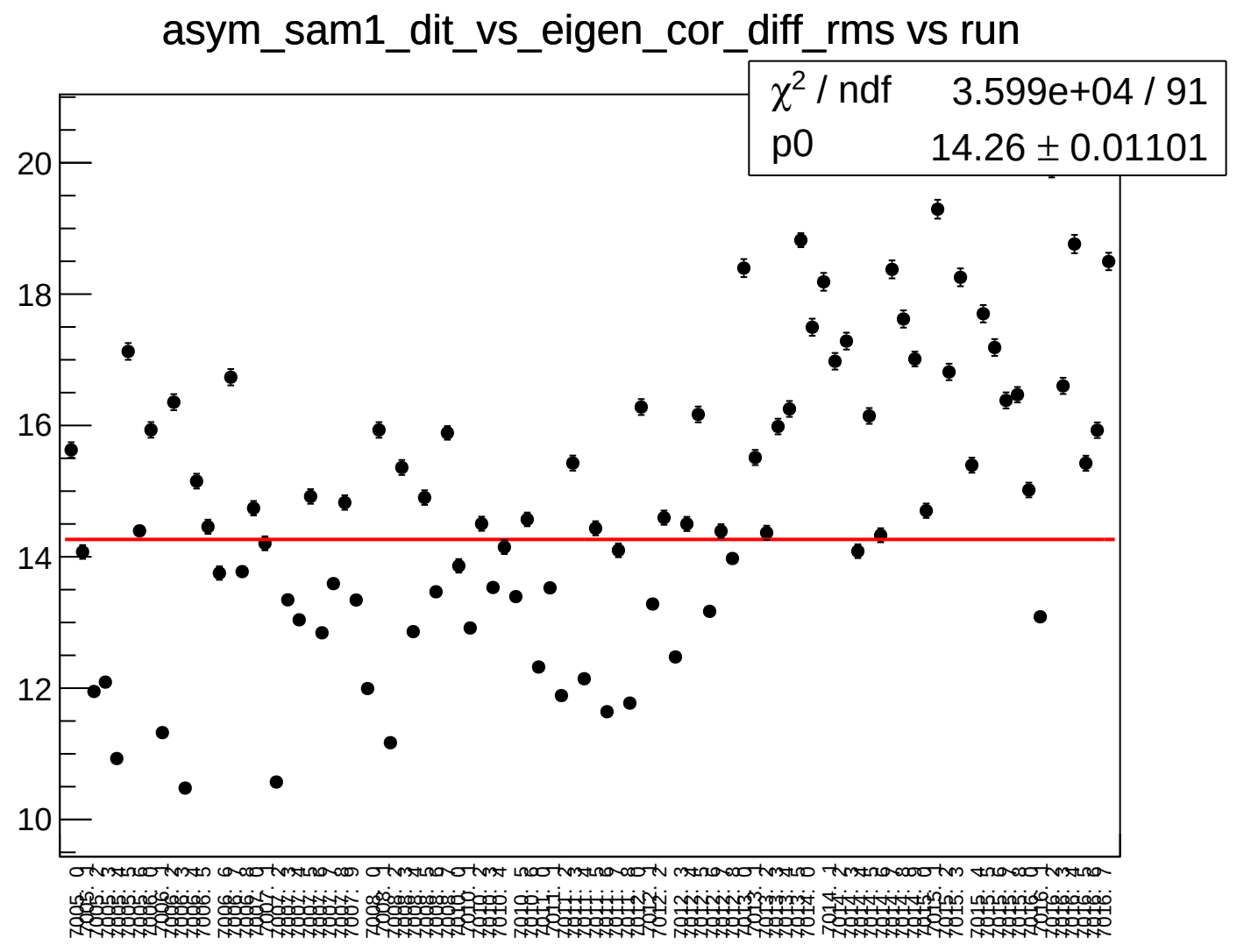

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 81.23 / 91
p0 5.996e−17 ± 7.786e−15
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 102.1
Std Dev 0
pull1D
Entries 92
Mean −0.09788
Std Dev 0.9345

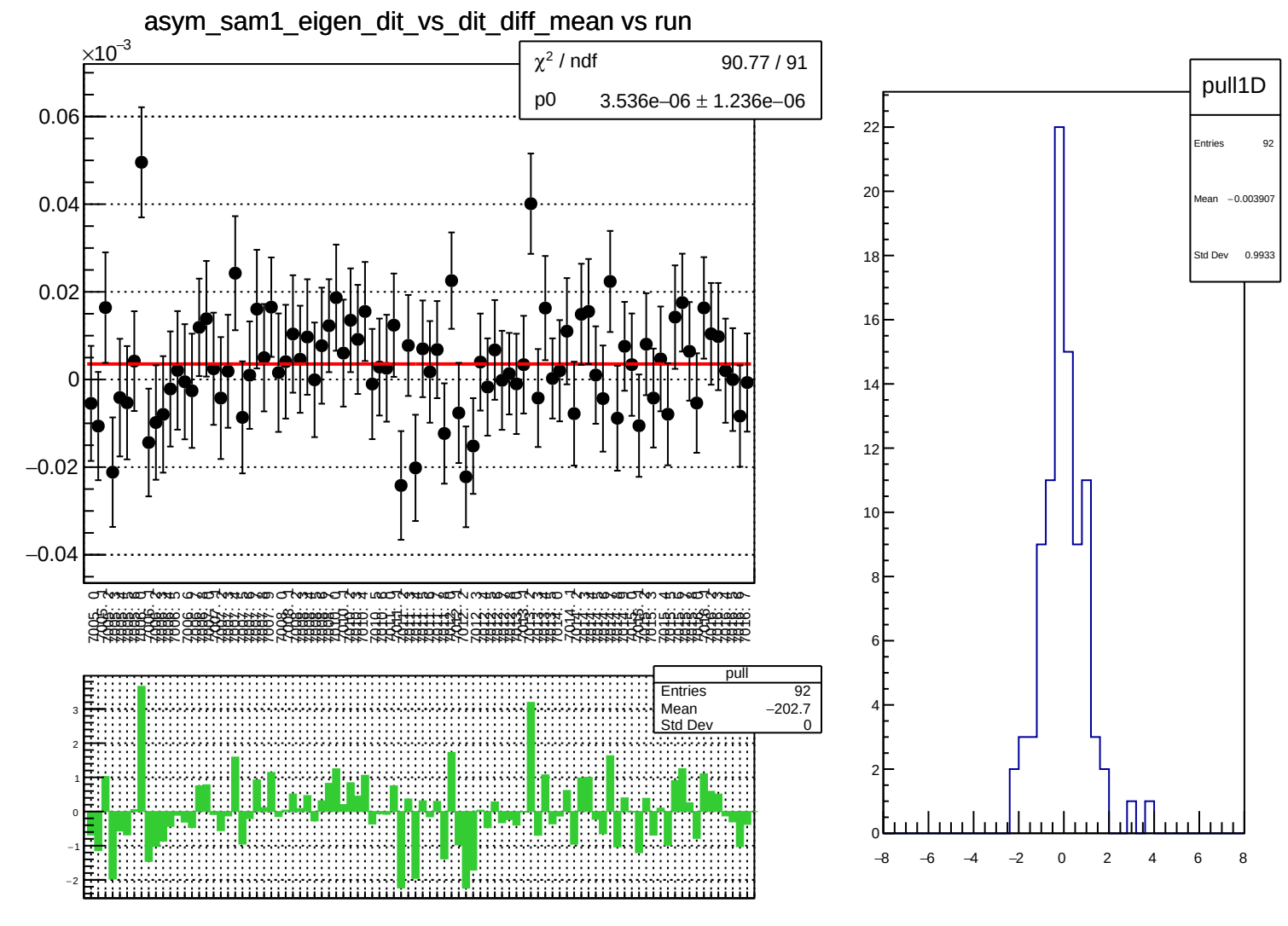

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 91
p0 4.371e−12 ± 5.505e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

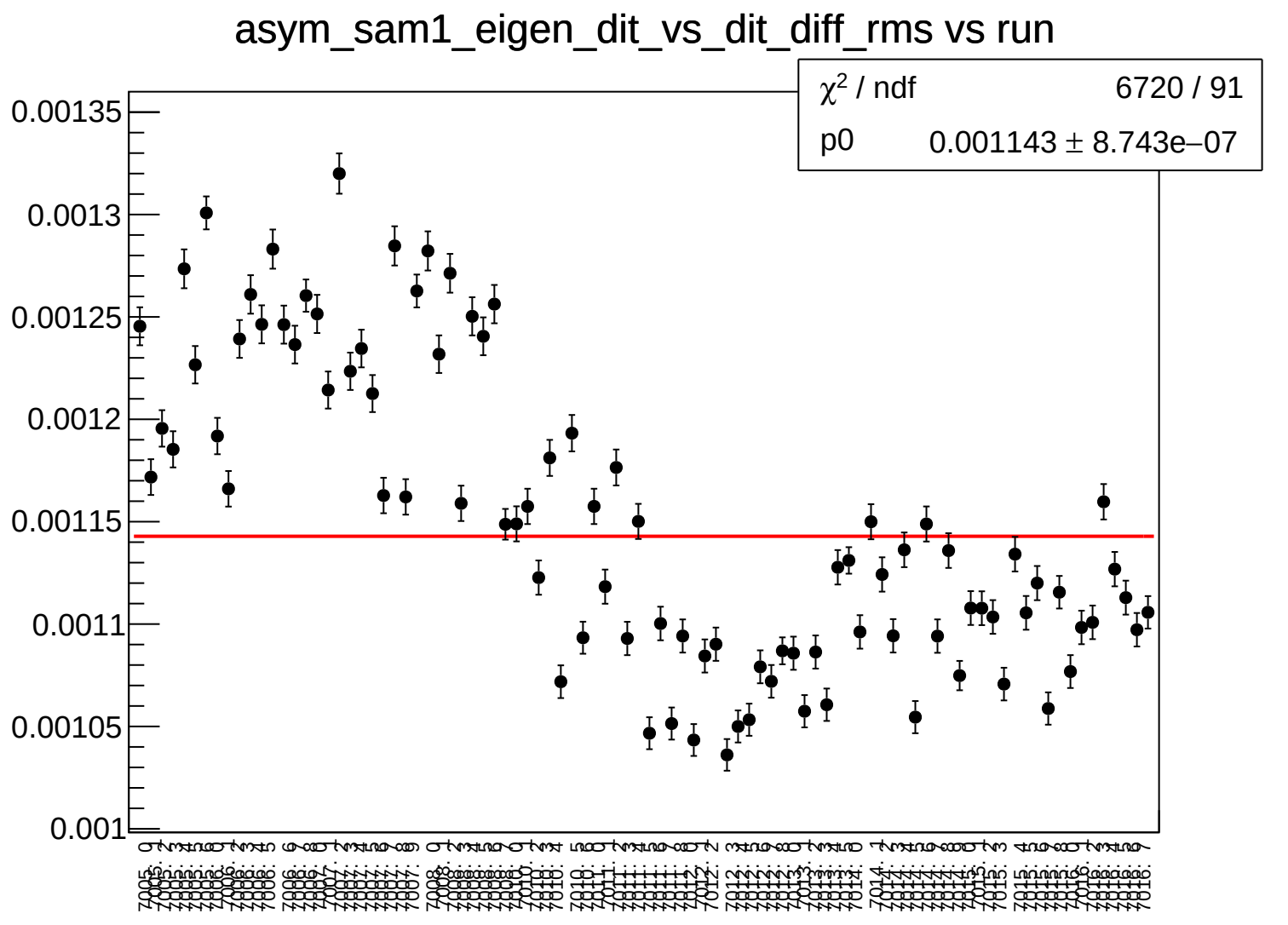

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 81.16 / 91
p0 −0.009389 ± 0.01557
pull
Entries 92
Mean 181.3
Std Dev 0
pull1D
Entries 92
Mean −0.01375
Std Dev 0.9391

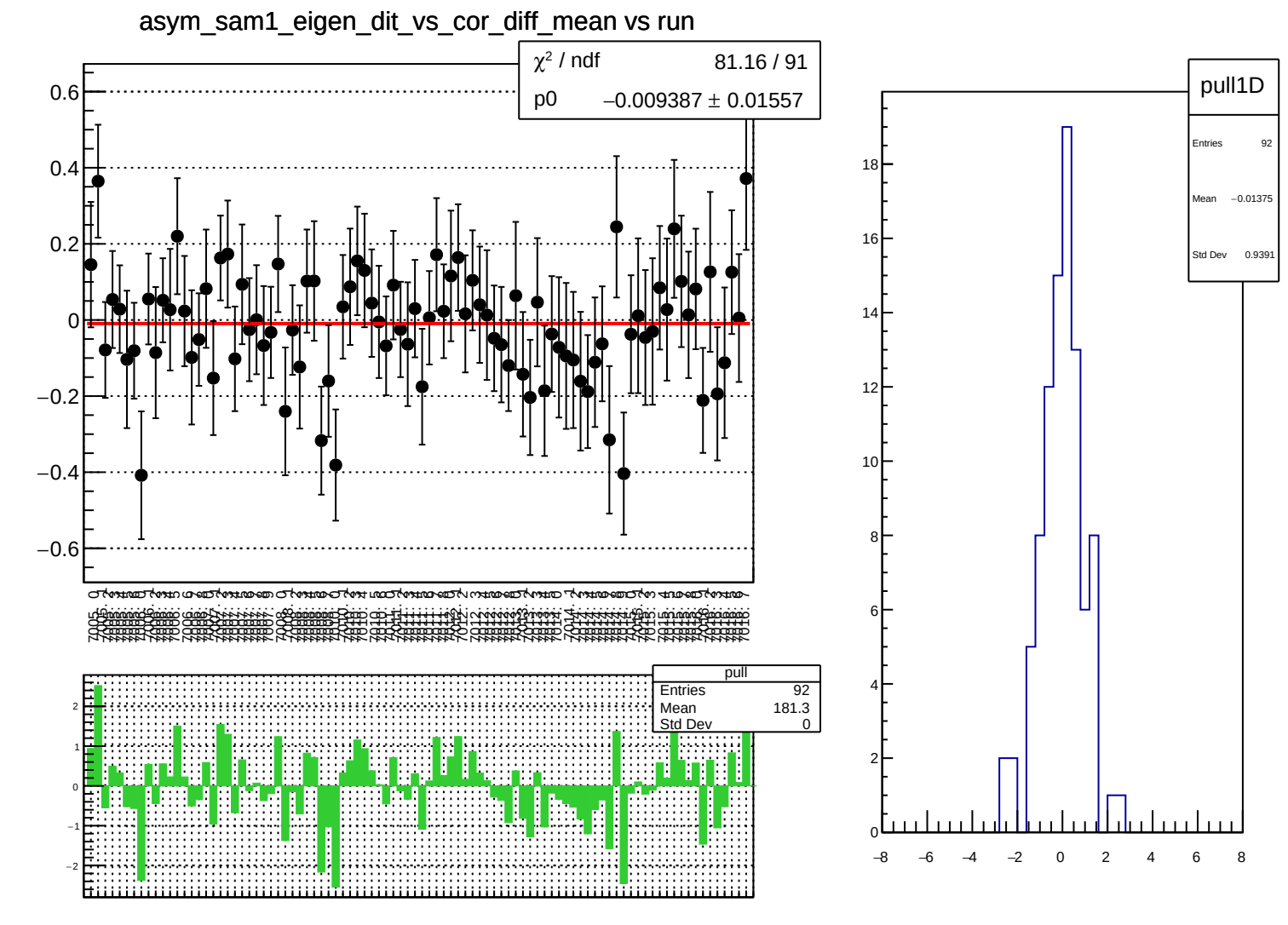

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.599e+04 / 91
p0 14.26 ± 0.01101
20
18
16
14
12
10

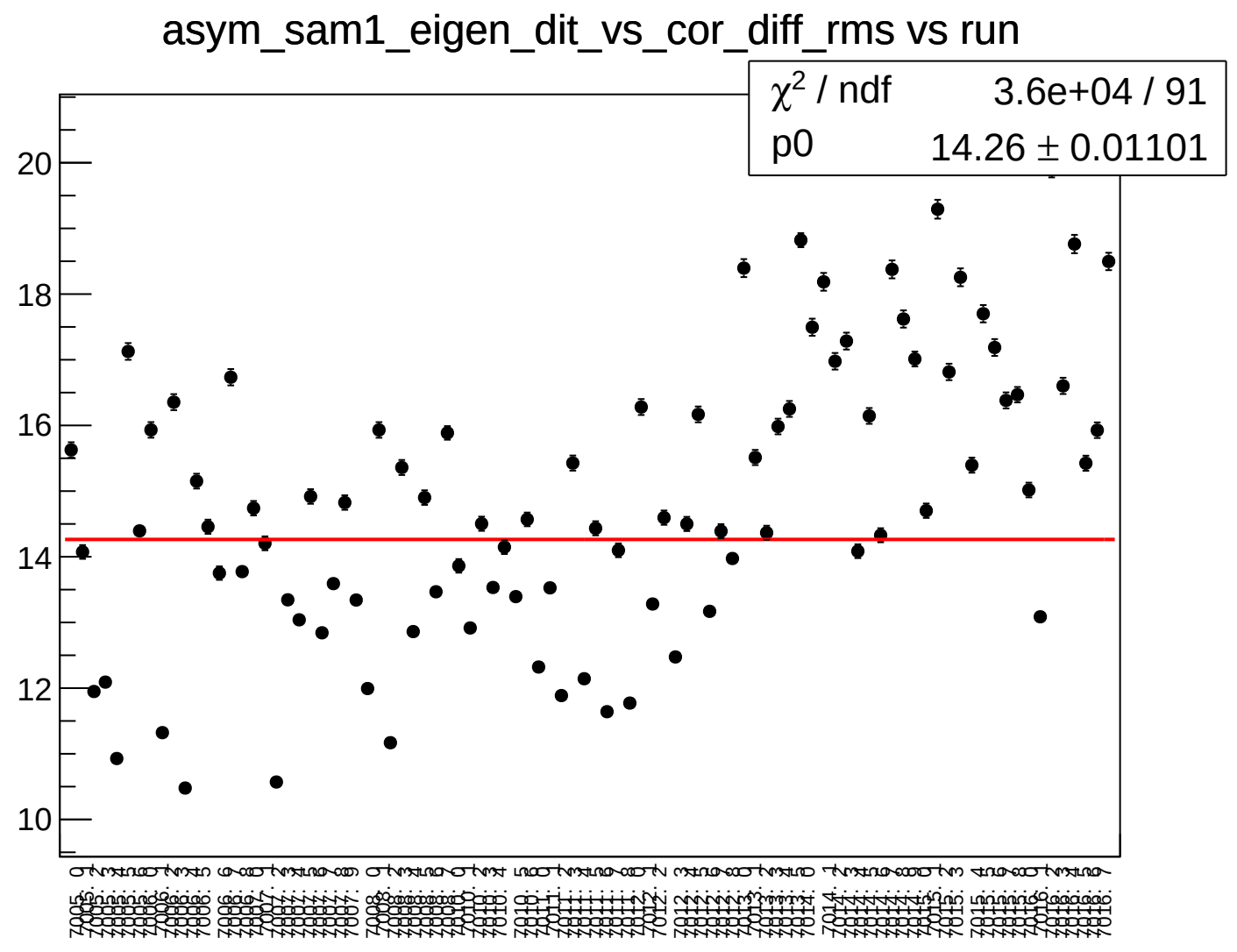

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.16 / 91
p0 −0.009389 ± 0.01557
pull
Entries 92
Mean 181.3
Std Dev 0
pull1D
Entries 92
Mean −0.01375
Std Dev 0.9391

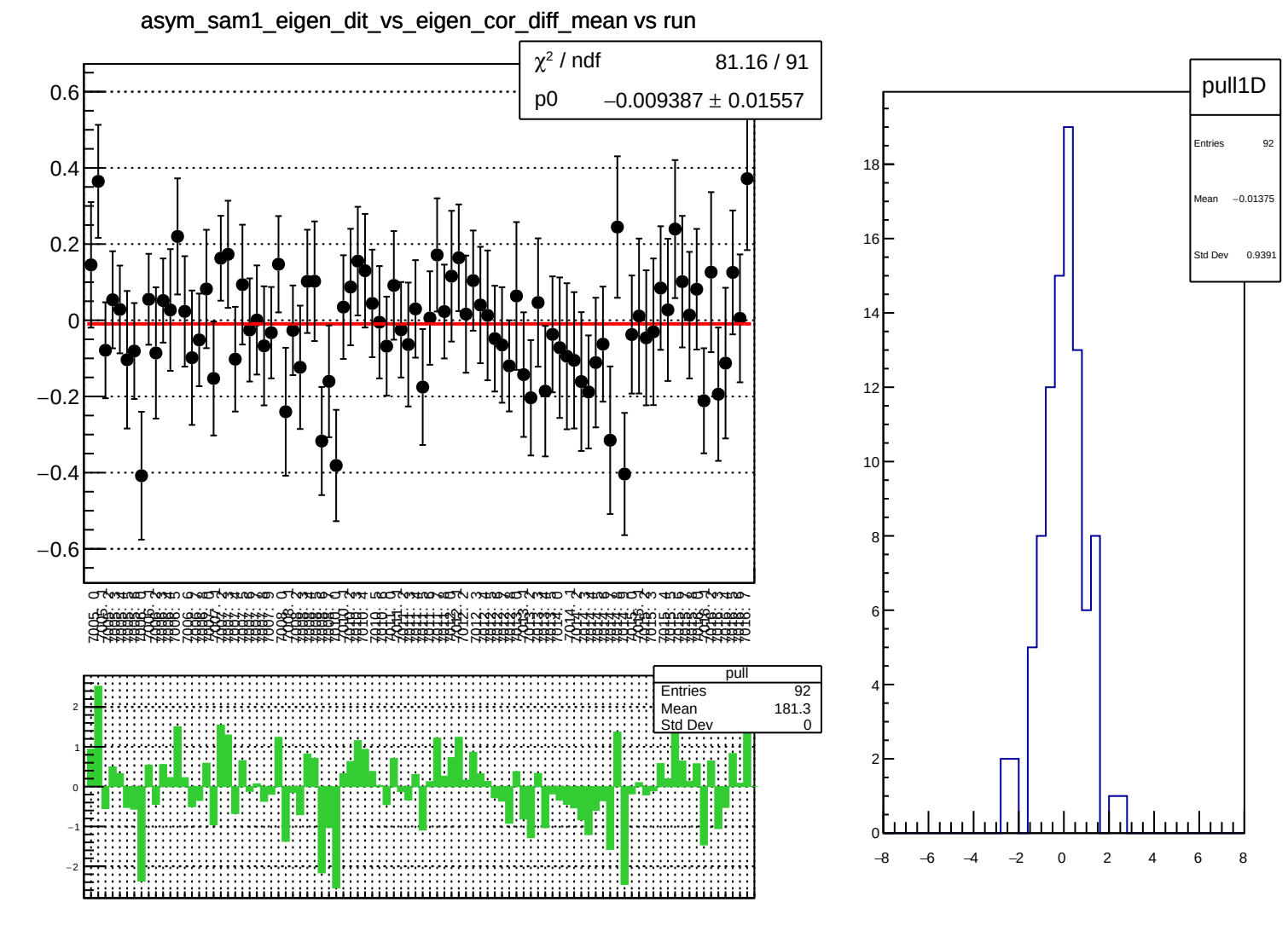

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.599e+04 / 91
p0 14.26 ± 0.01101
20
18
16
14
12
10

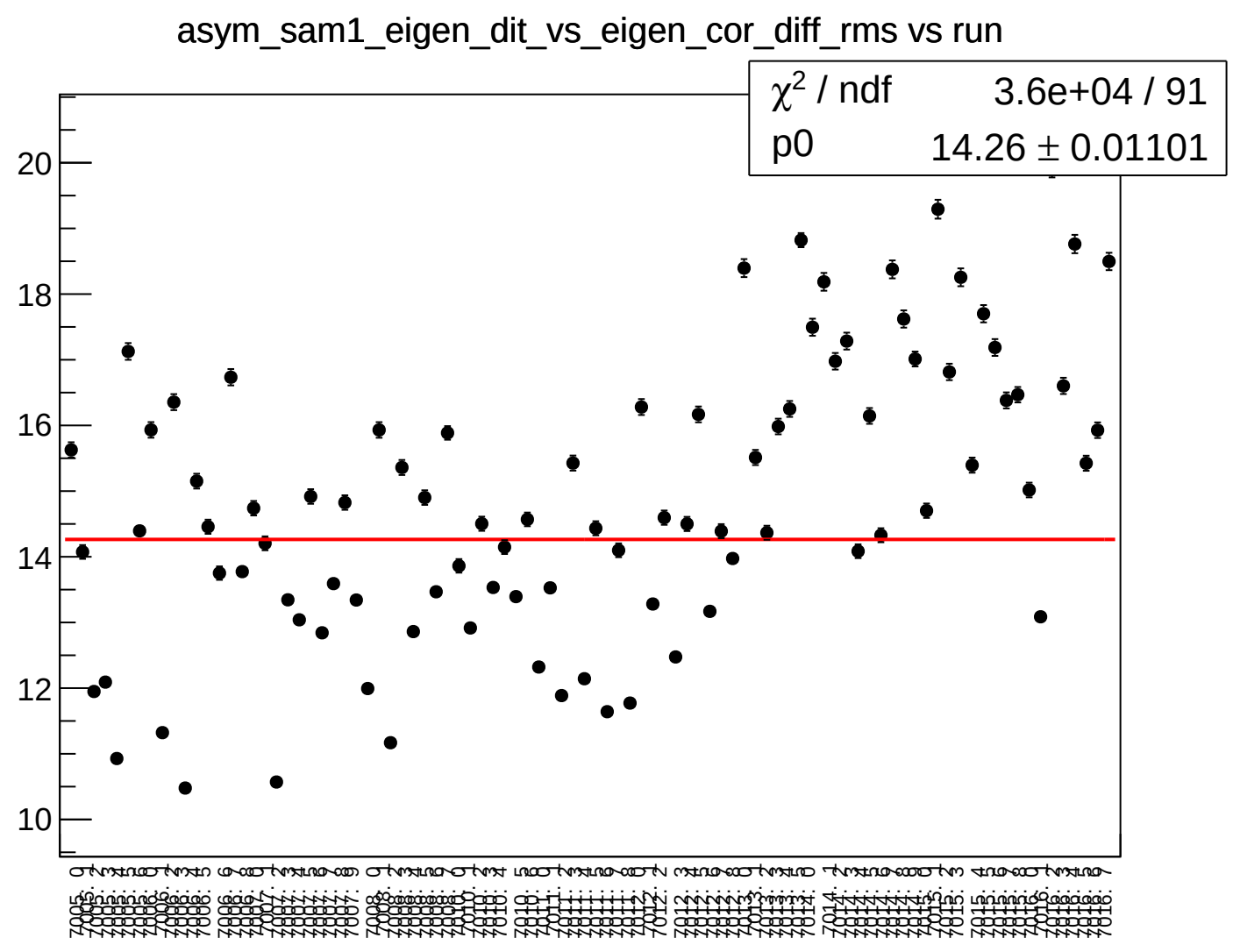

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.77 / 91
p0 3.536e−06 ± 1.236e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean −202.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.003907
Std Dev 0.9933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

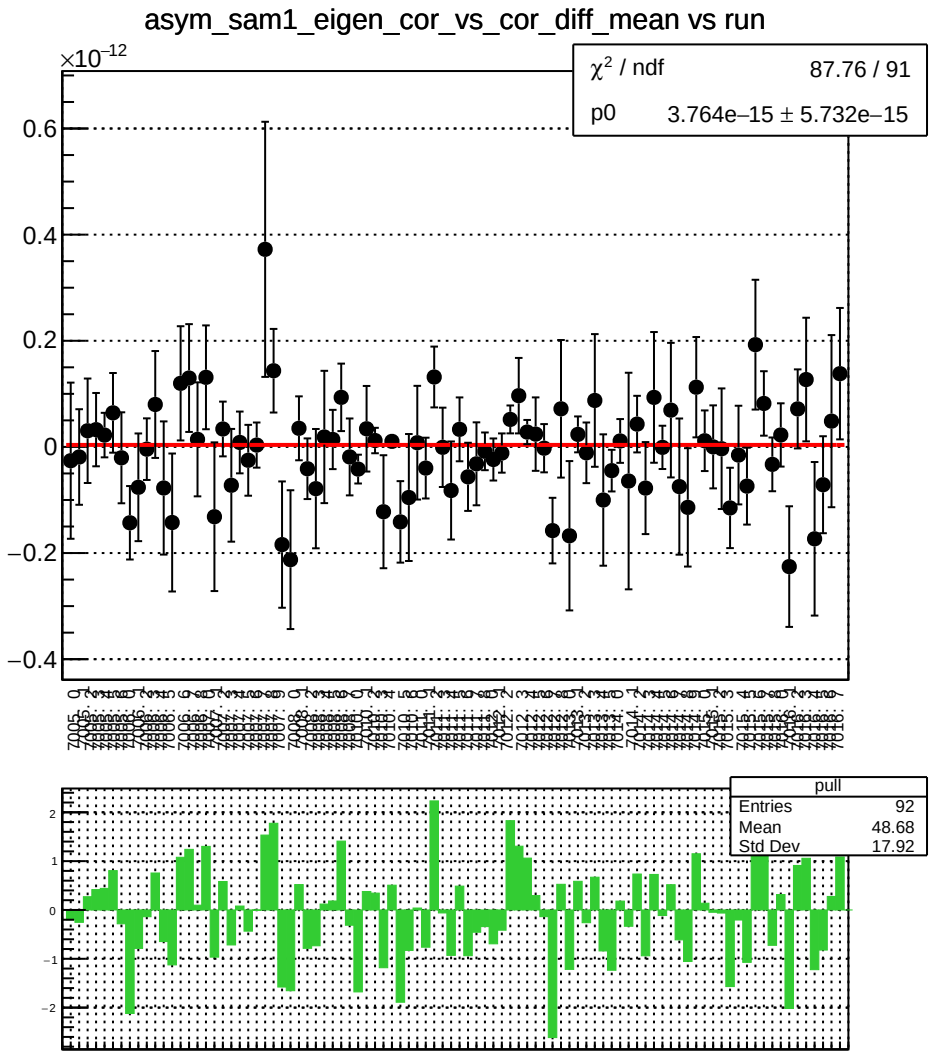

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6720 / 91
p0 0.001143 ± 8.743e−07
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
0.001

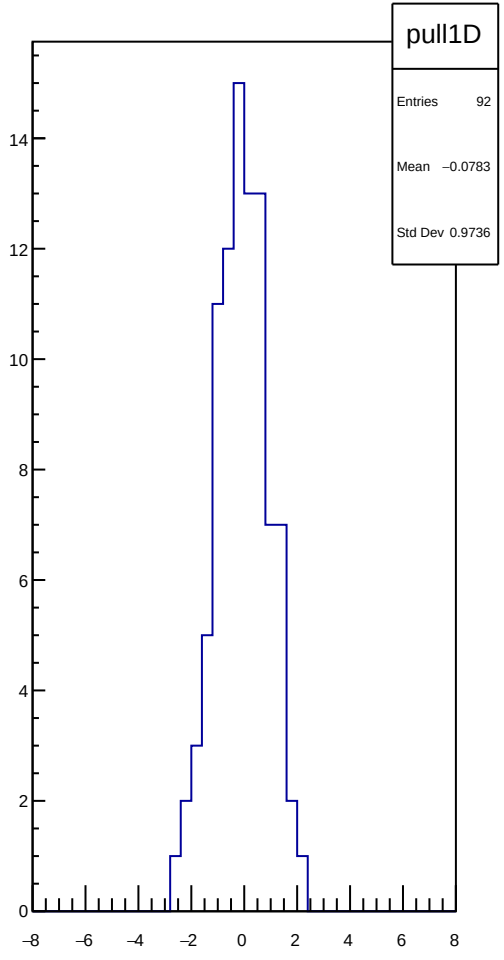

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.16 / 91
p0 −0.009387 ± 0.01557
pull
Entries 92
Mean 181.3
Std Dev 0
pull1D
Entries 92
Mean −0.01375
Std Dev 0.9391

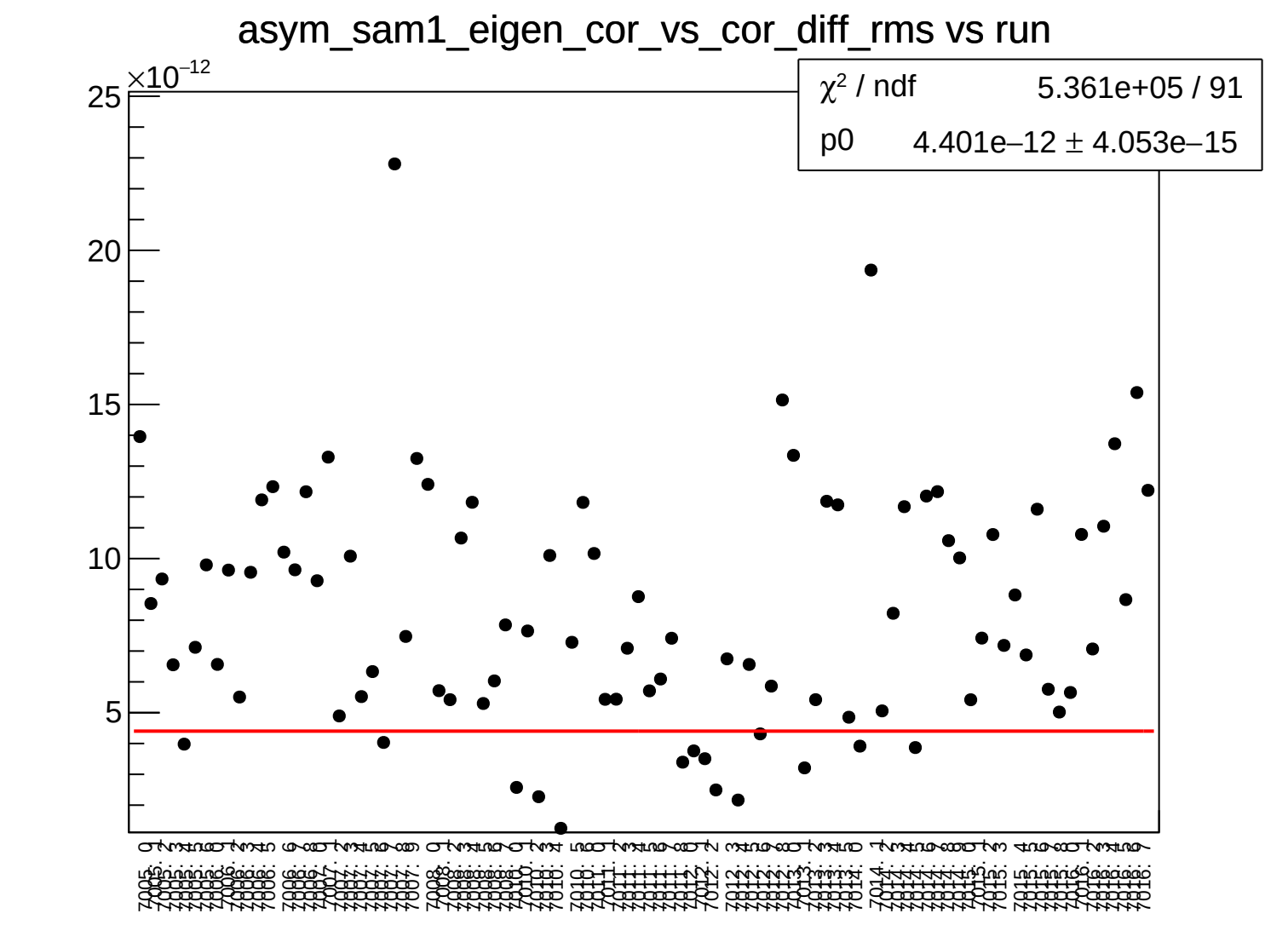

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ2 / ndf 3.6e+04 / 91
p0 14.26 ± 0.01101
20
18
16
14
12
10

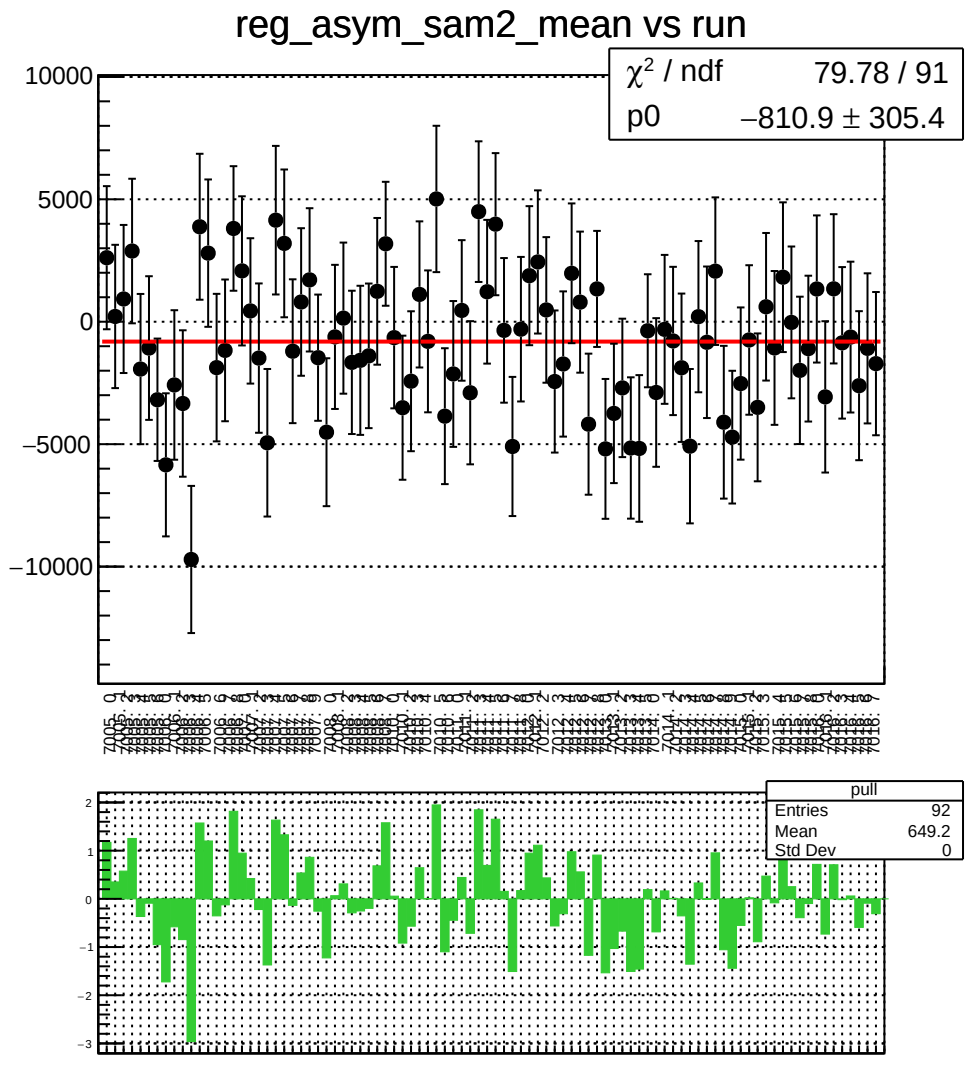

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.16 / 91
p0 −0.009387 ± 0.01557
pull
Entries 92
Mean 181.3
Std Dev 0
pull1D
Entries 92
Mean −0.01375
Std Dev 0.9391

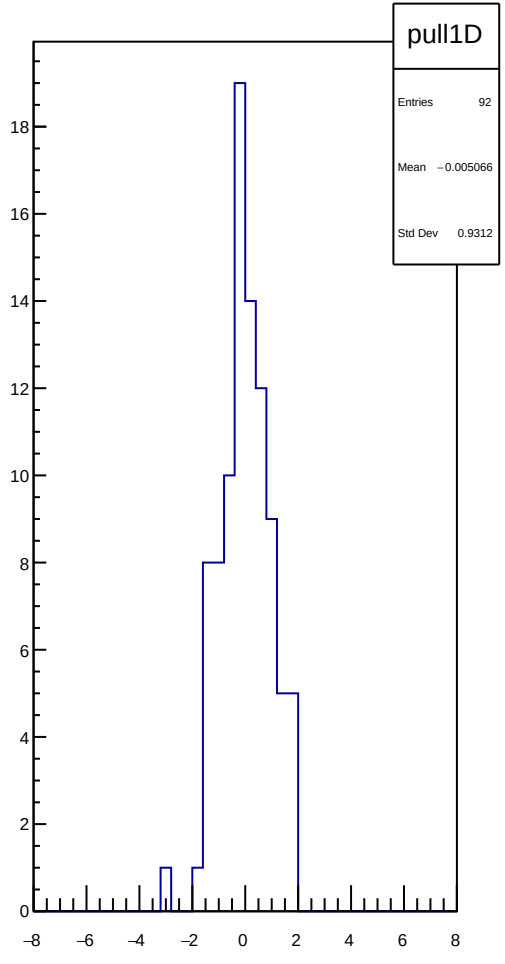

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.6e+04 / 91
p0 14.26 ± 0.01101
20
18
16
14
12
10

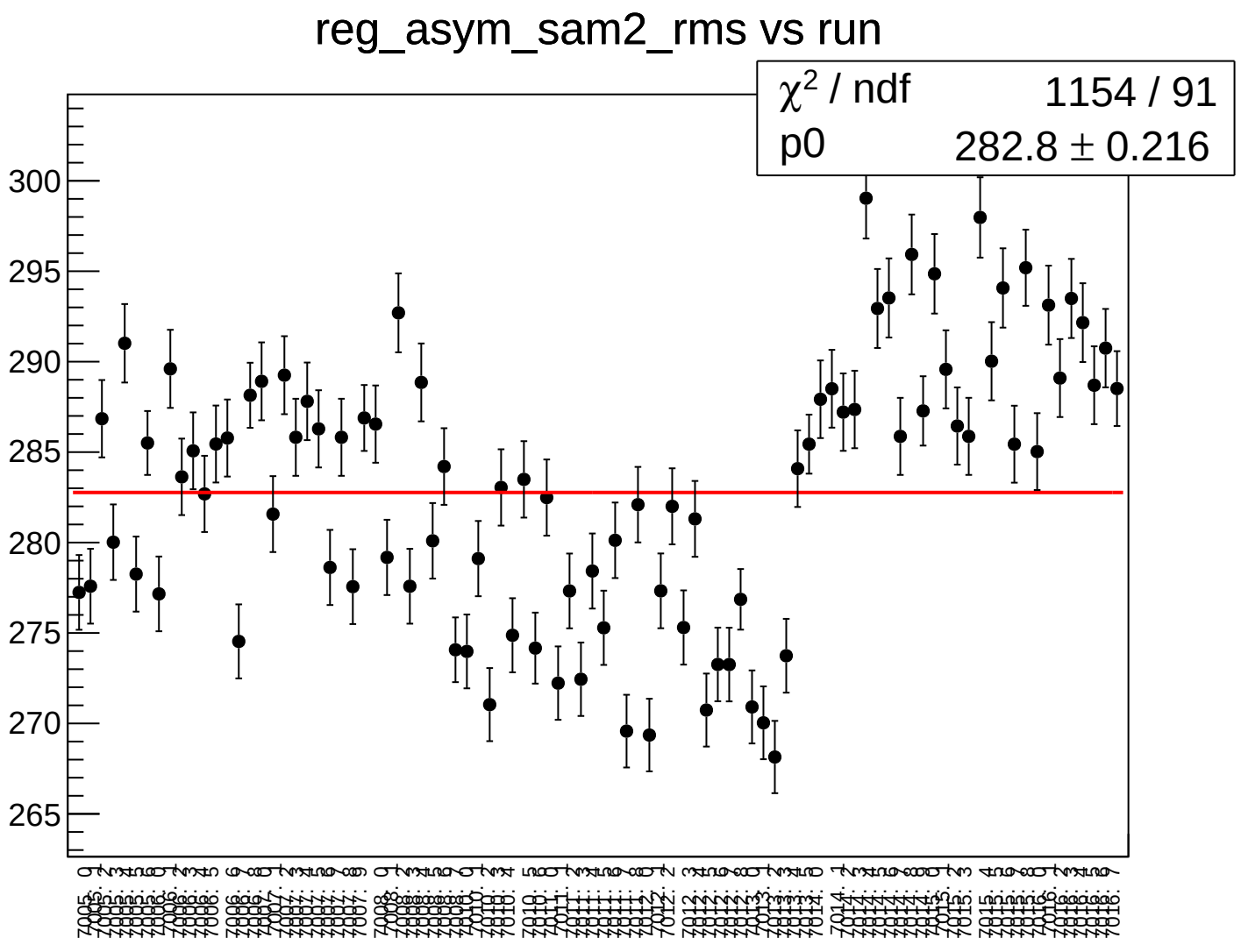

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.76 / 91
p0 3.764e−15 ± 5.732e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 48.68
Std Dev 17.92
2
1
0
−1
−2

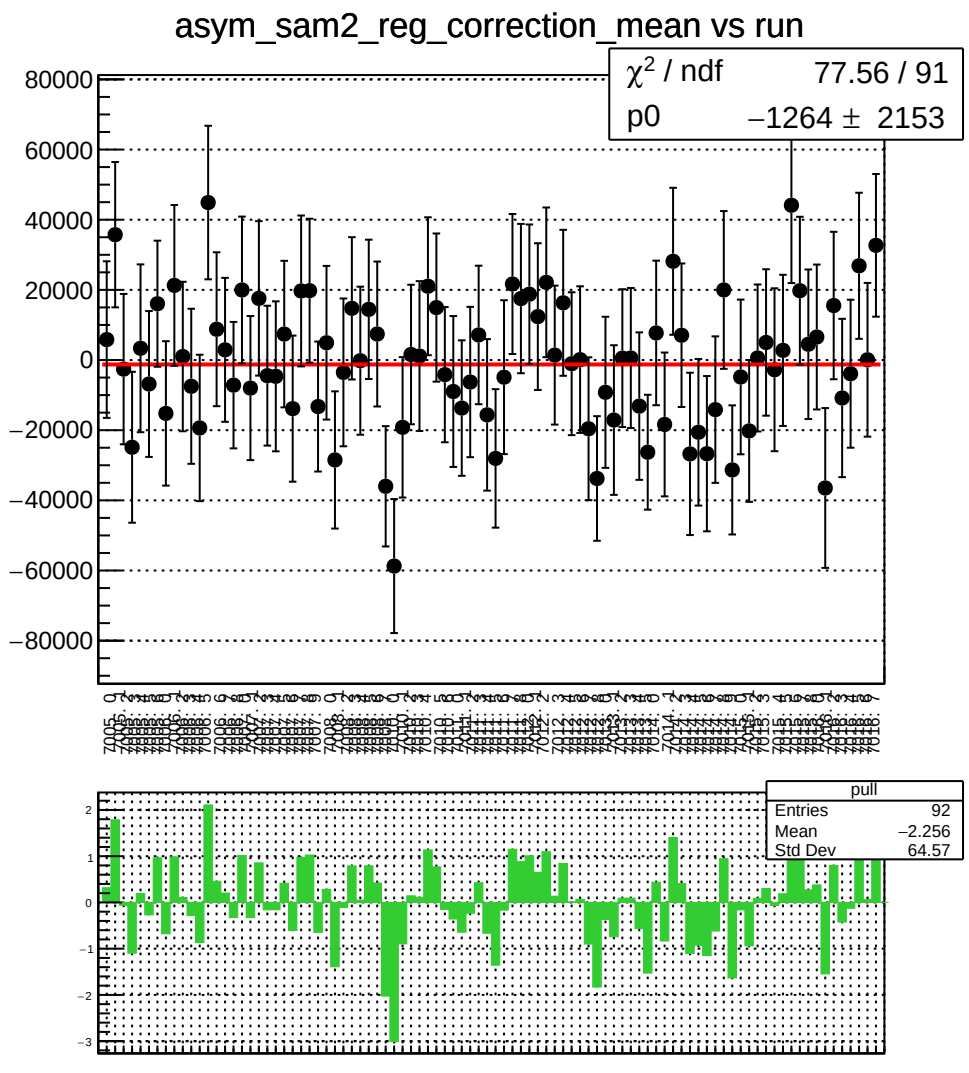

pull1D
Entries 92
Mean −0.0783
Std Dev 0.9736
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

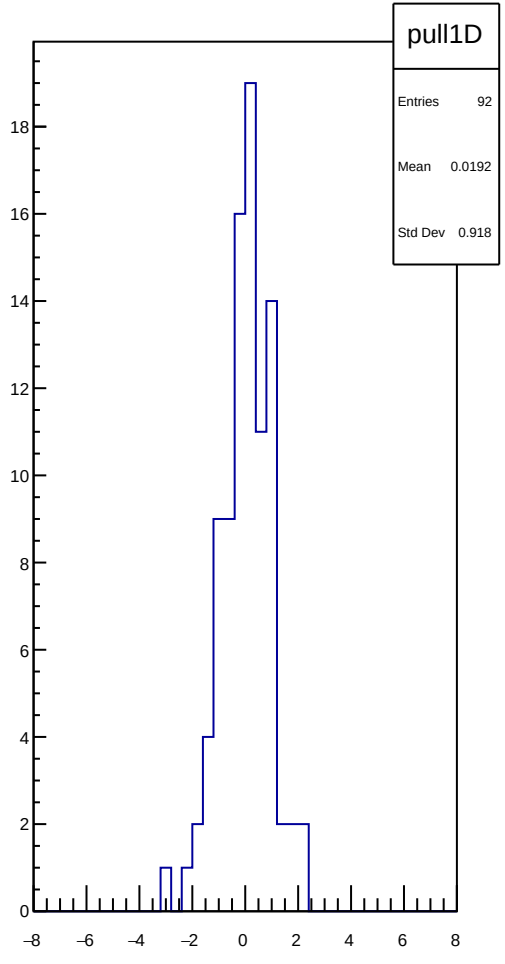

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
25
20
15
10
5
χ² / ndf 5.361e+05 / 91
p0 4.401e−12 ± 4.053e−15

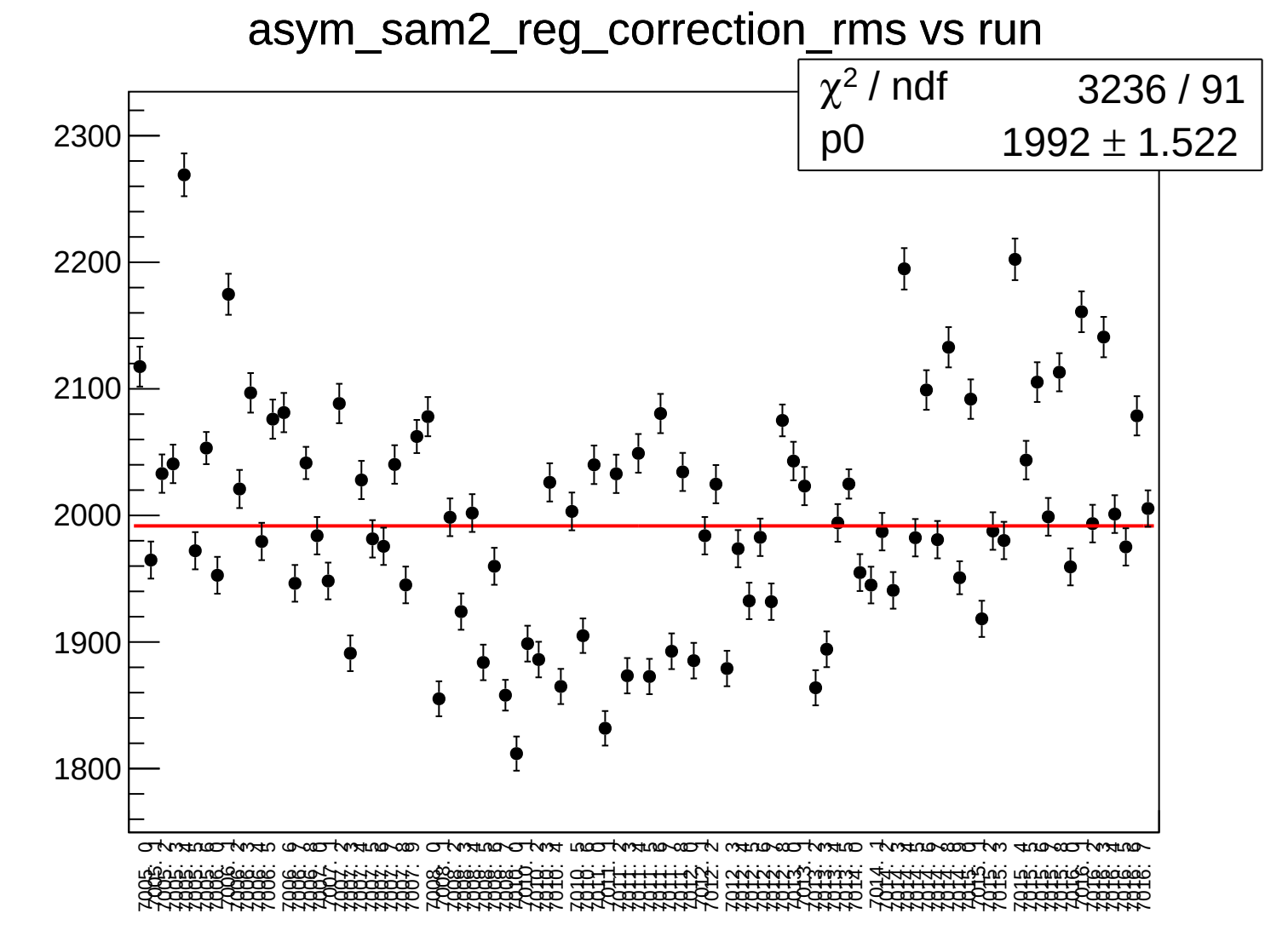

reg_asym_sam2_mean vs run
χ² / ndf 79.78 / 91
p0 −810.9 ± 305.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 649.2
Std Dev 0
2
1
0
−1
−2
−3

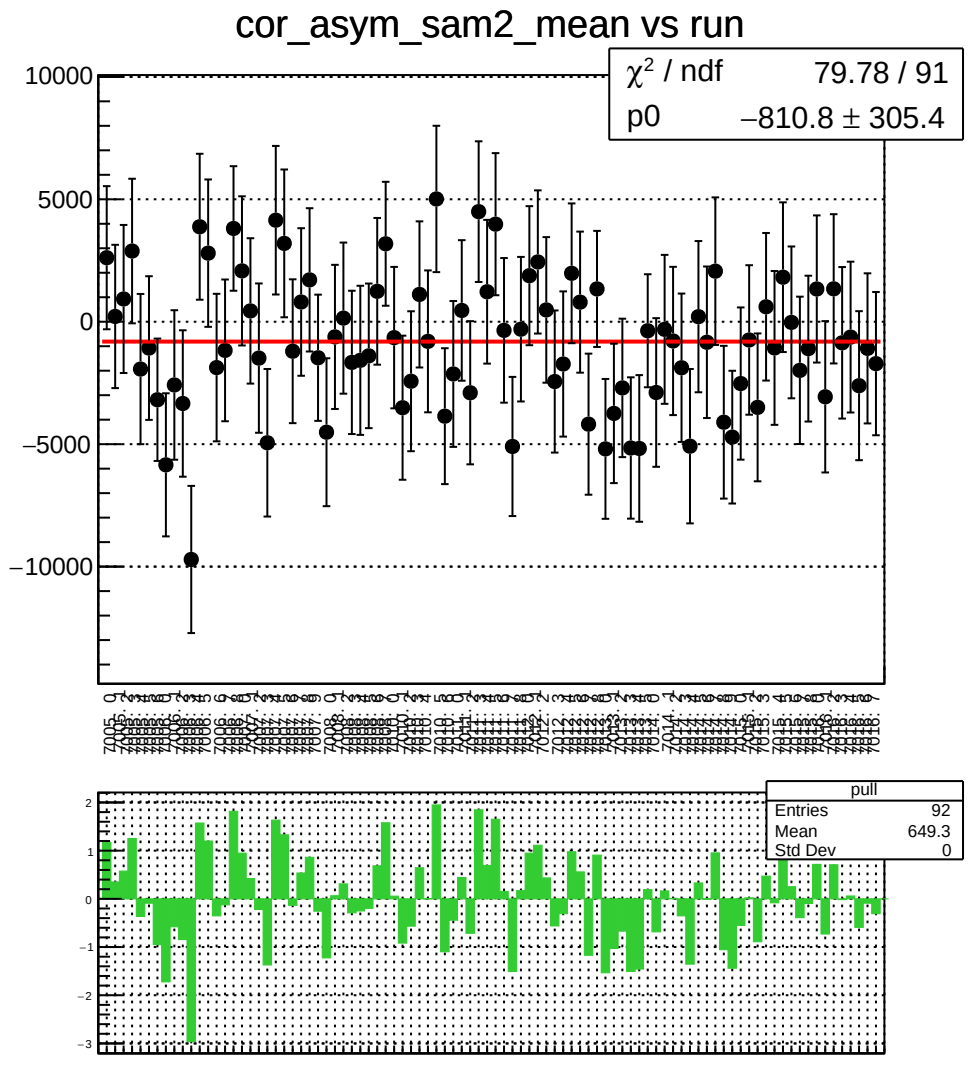

pull1D
Entries 92
Mean −0.005066
Std Dev 0.9312
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

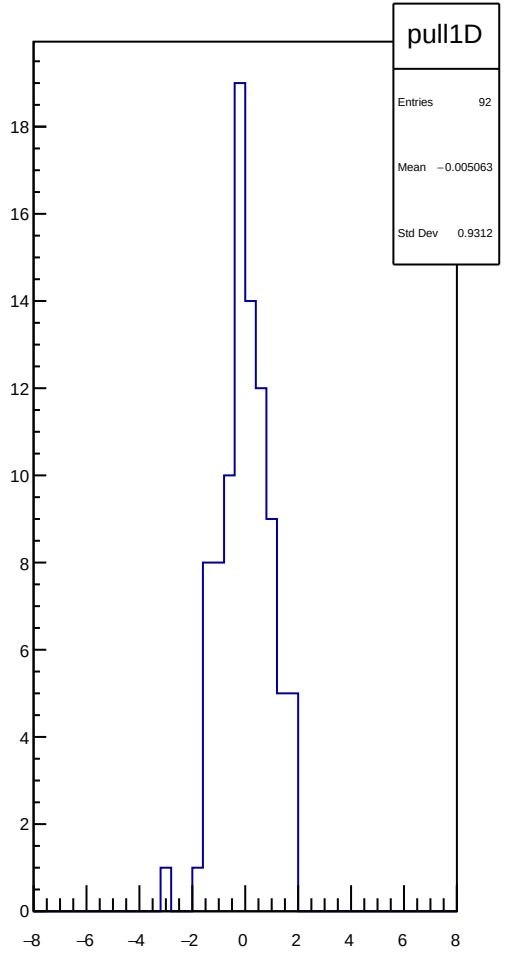

reg_asym_sam2_rms vs run
χ² / ndf 1154 / 91
p0 282.8 ± 0.216
300
295
290
285
280
275
270
265

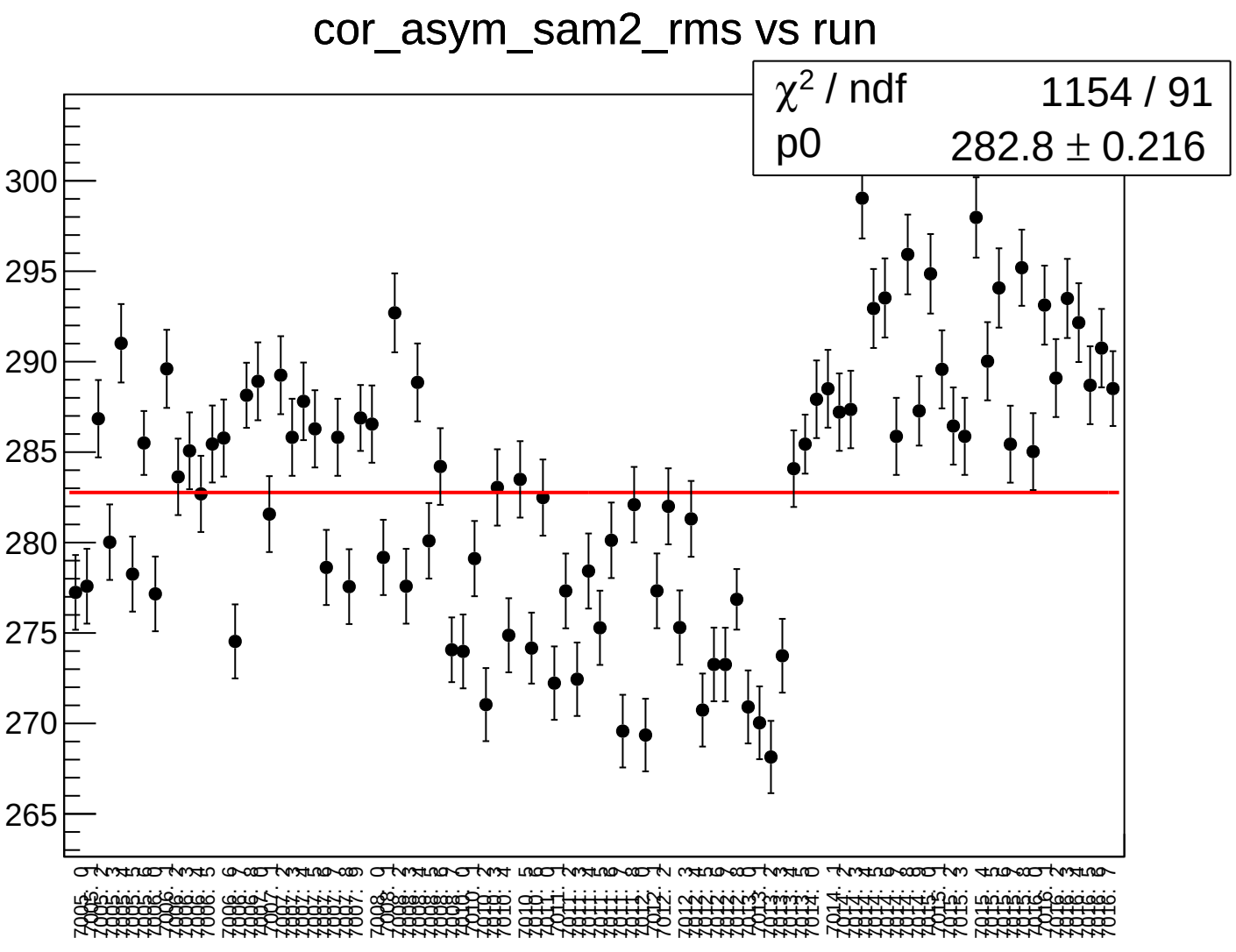

asym_sam2_reg_correction_mean vs run
χ² / ndf 77.56 / 91
p0 −1264 ± 2153
pull
Entries 92
Mean −2.256
Std Dev 64.57

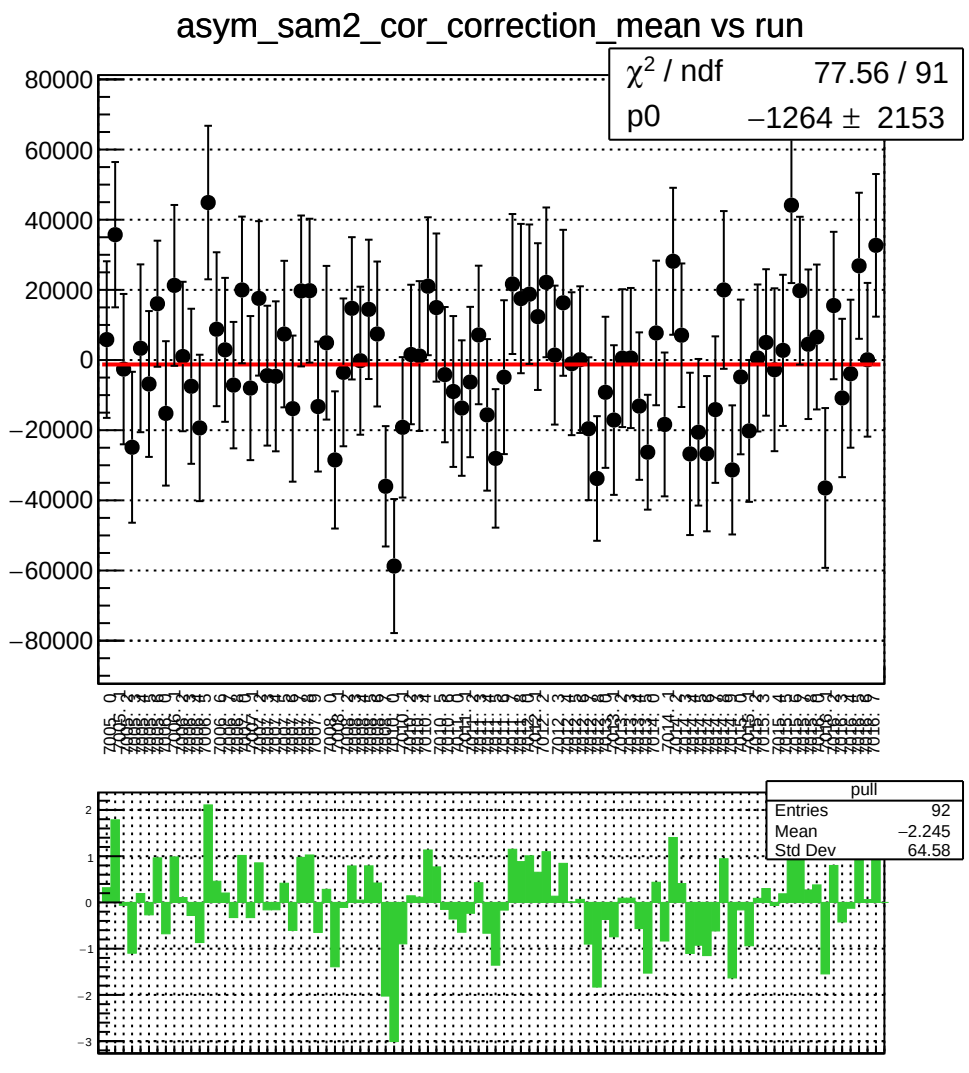

pull1D
Entries 92
Mean 0.0192
Std Dev 0.918

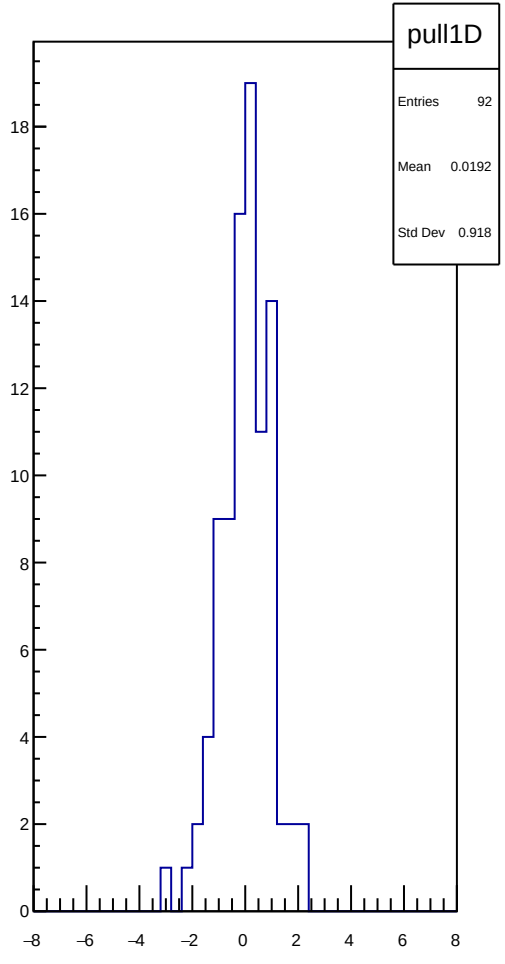

asym_sam2_reg_correction_rms vs run
χ² / ndf 3236 / 91
p0 1992 ± 1.522
2300
2200
2100
2000
1900
1800

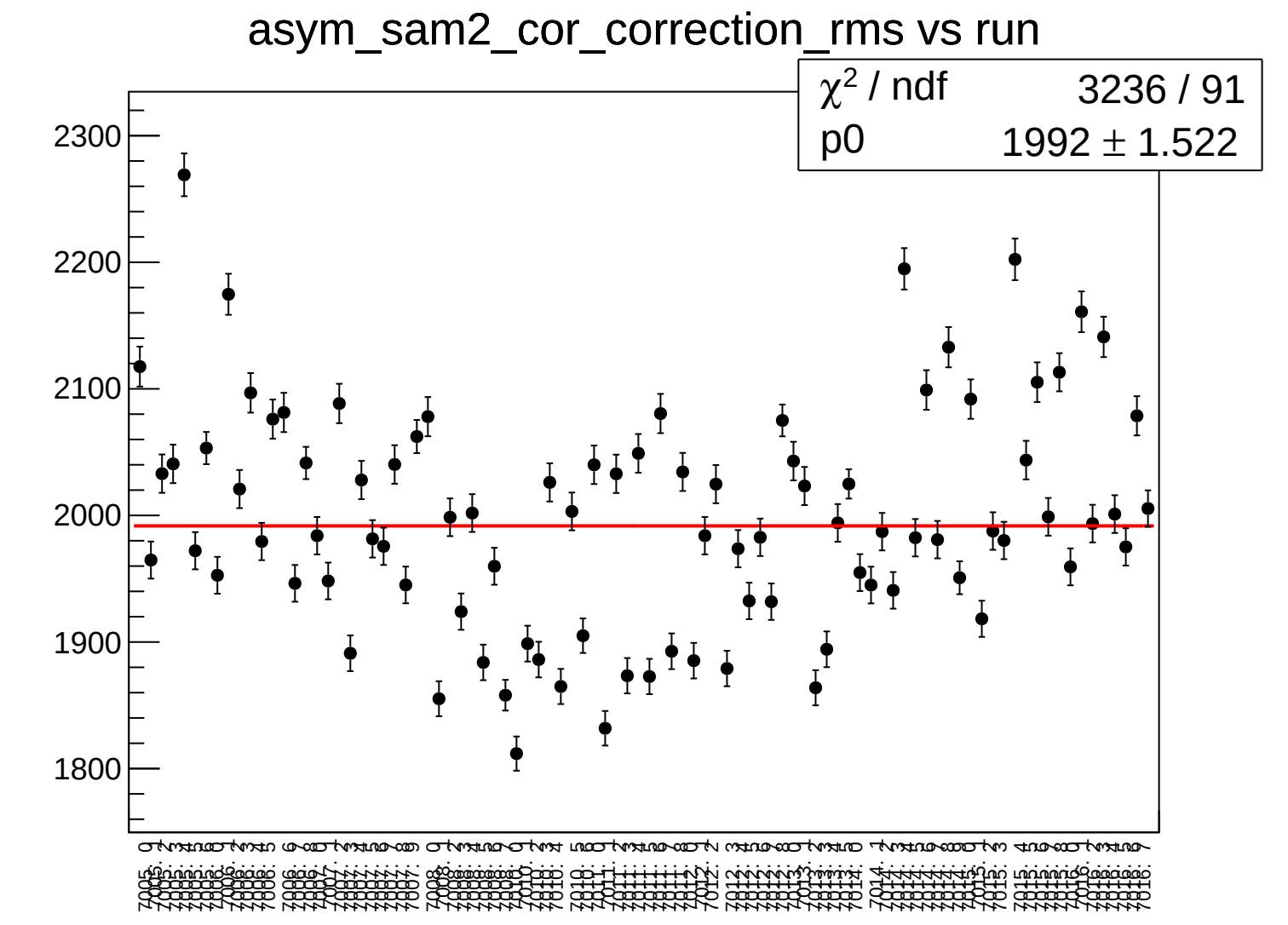

cor_asym_sam2_mean vs run
χ² / ndf 79.78 / 91
p0 −810.8 ± 305.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 649.3
Std Dev 0
2
1
0
−1
−2
−3

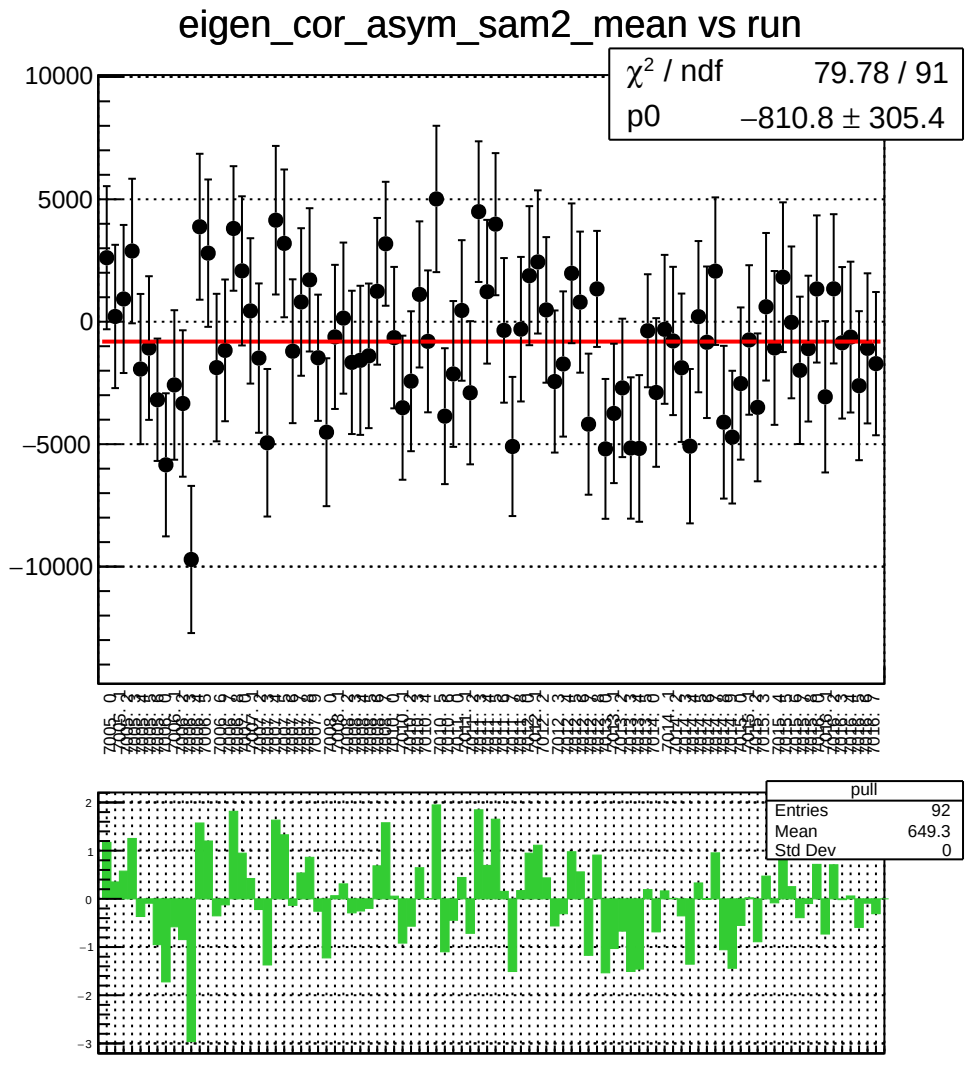

pull1D
Entries 92
Mean −0.005063
Std Dev 0.9312
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

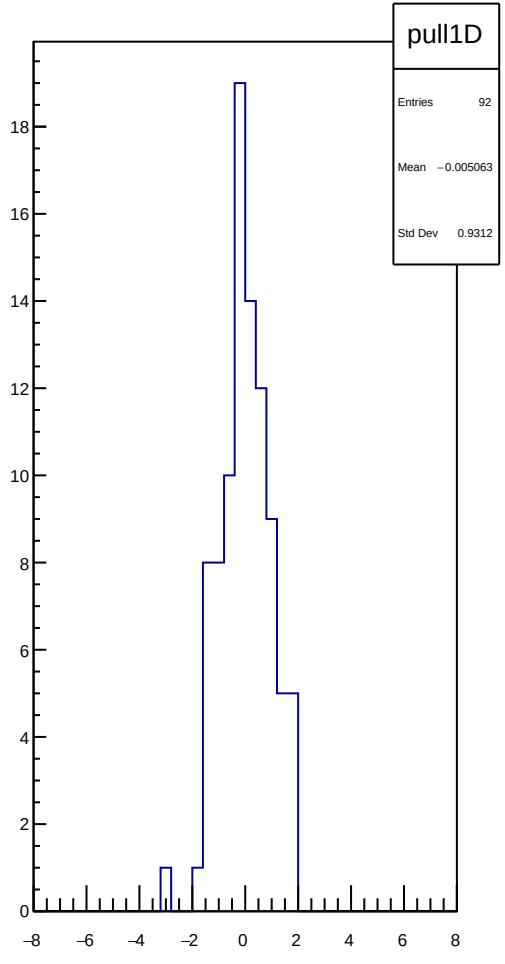

cor_asym_sam2_rms vs run
$\chi^2$ / ndf 1154 / 91
p0 282.8 ± 0.216
300
295
290
285
280
275
270
265

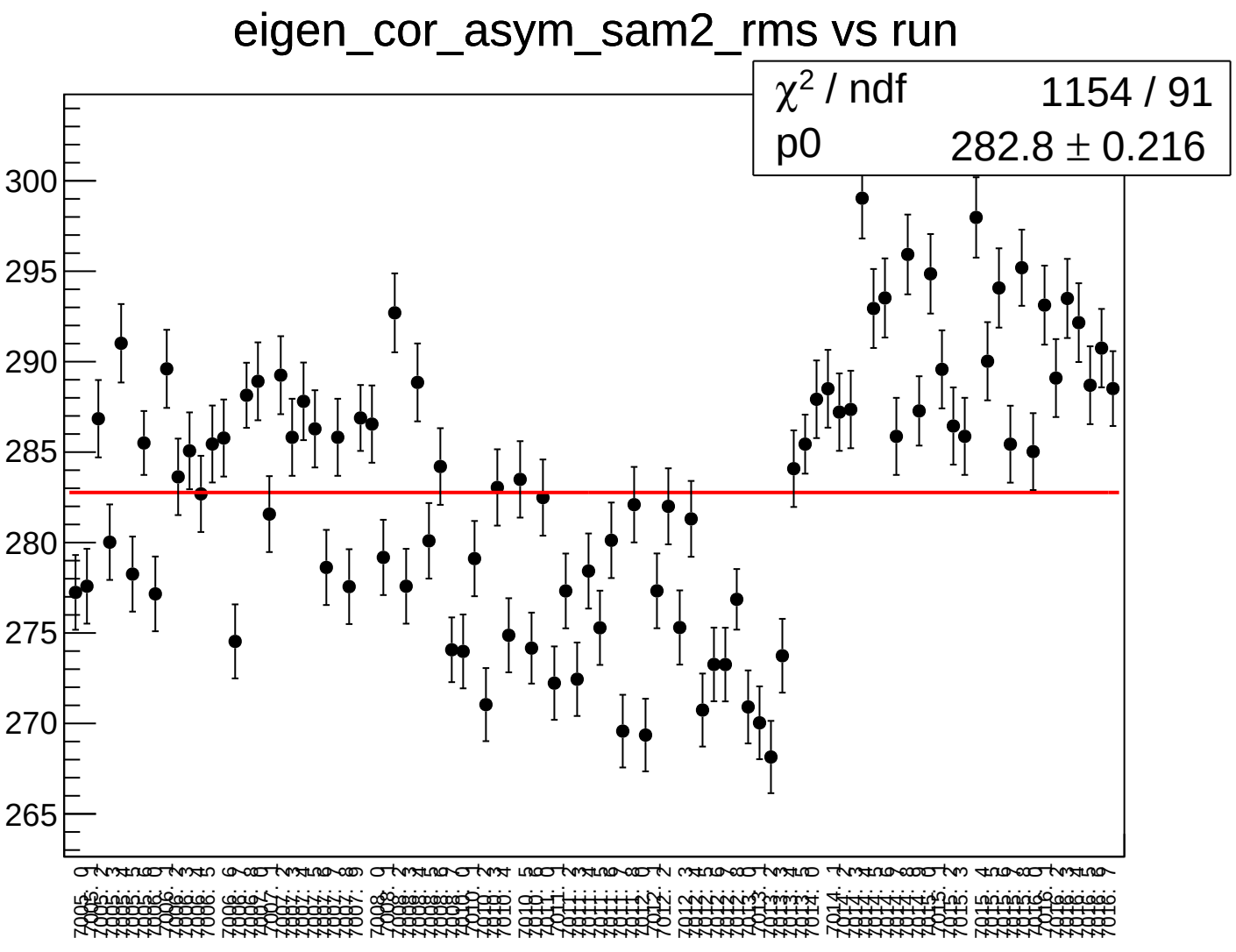

asym_sam2_cor_correction_mean vs run
χ² / ndf 77.56 / 91
p0 −1264 ± 2153
pull
Entries 92
Mean −2.245
Std Dev 64.58

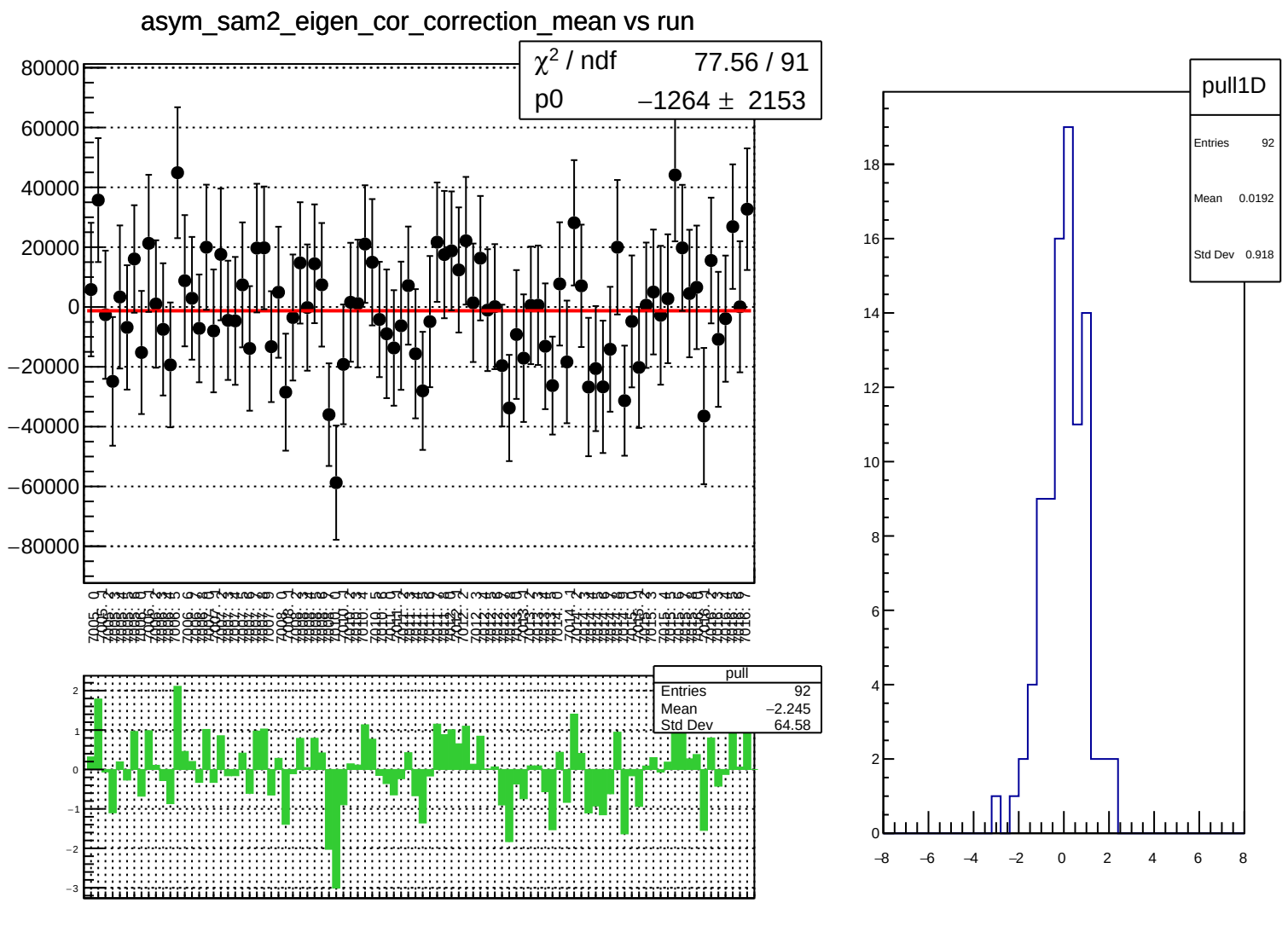

pull1D
Entries 92
Mean 0.0192
Std Dev 0.918

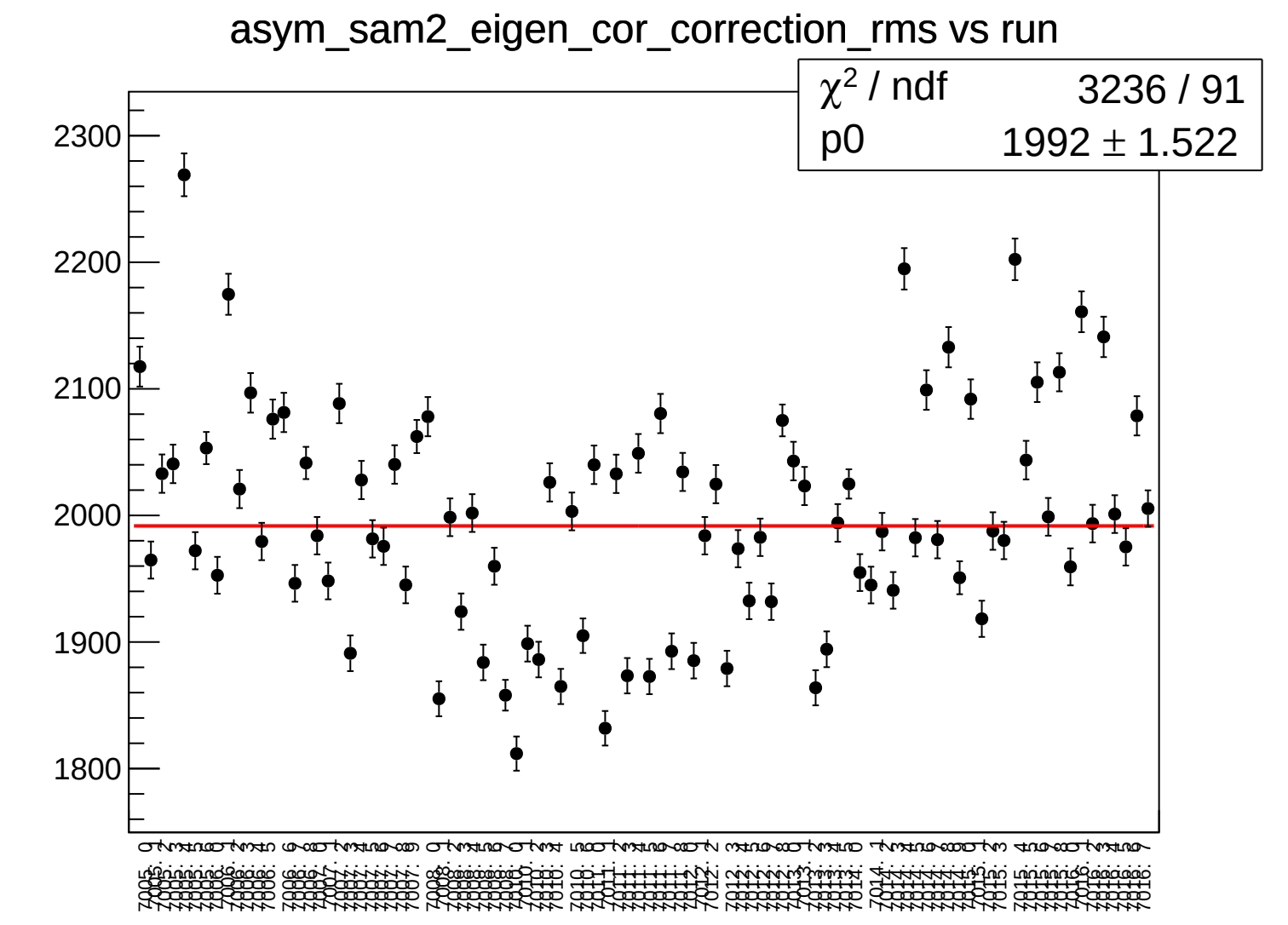

asym_sam2_cor_correction_rms vs run
χ² / ndf 3236 / 91
p0 1992 ± 1.522
2300
2200
2100
2000
1900
1800

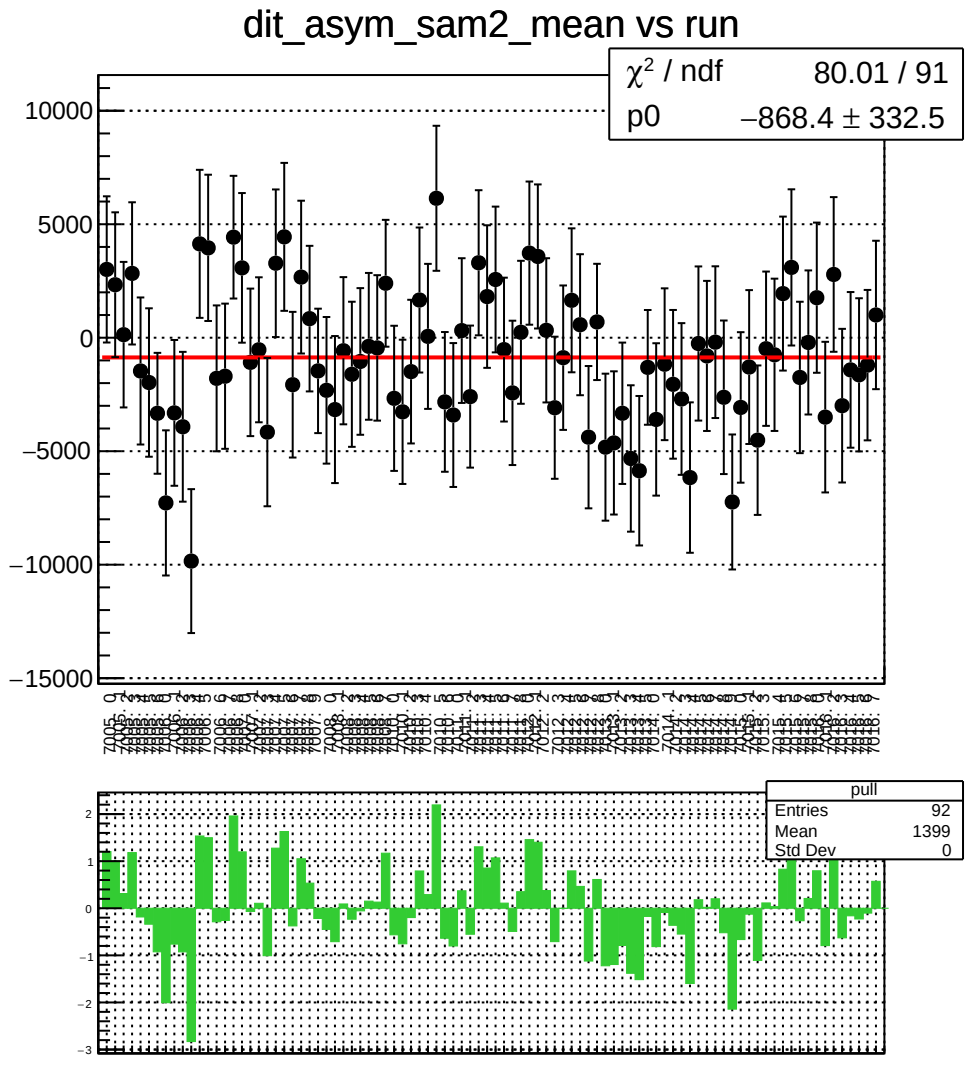

eigen_cor_asym_sam2_mean vs run
χ² / ndf 79.78 / 91
p0 −810.8 ± 305.4
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 649.3
Std Dev 0
2
1
0
−1
−2
−3

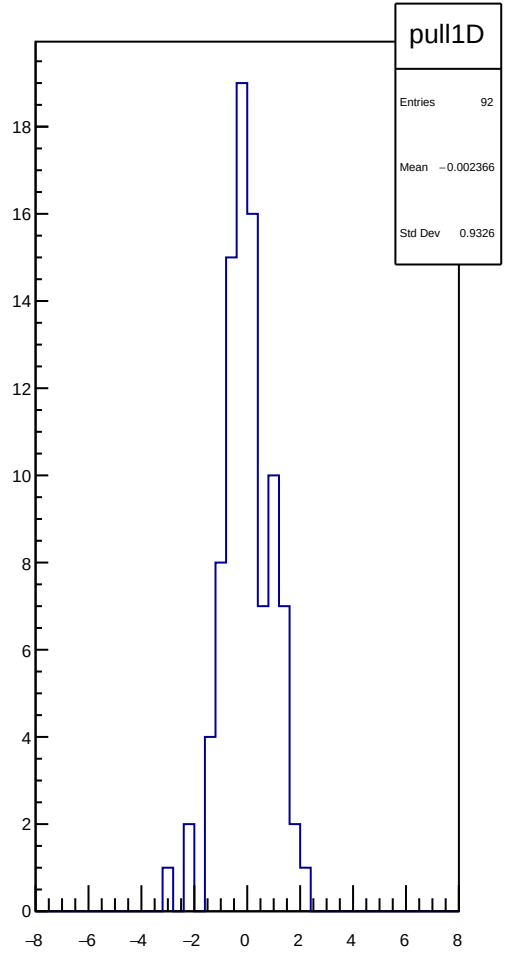

pull1D
Entries 92
Mean −0.005063
Std Dev 0.9312
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

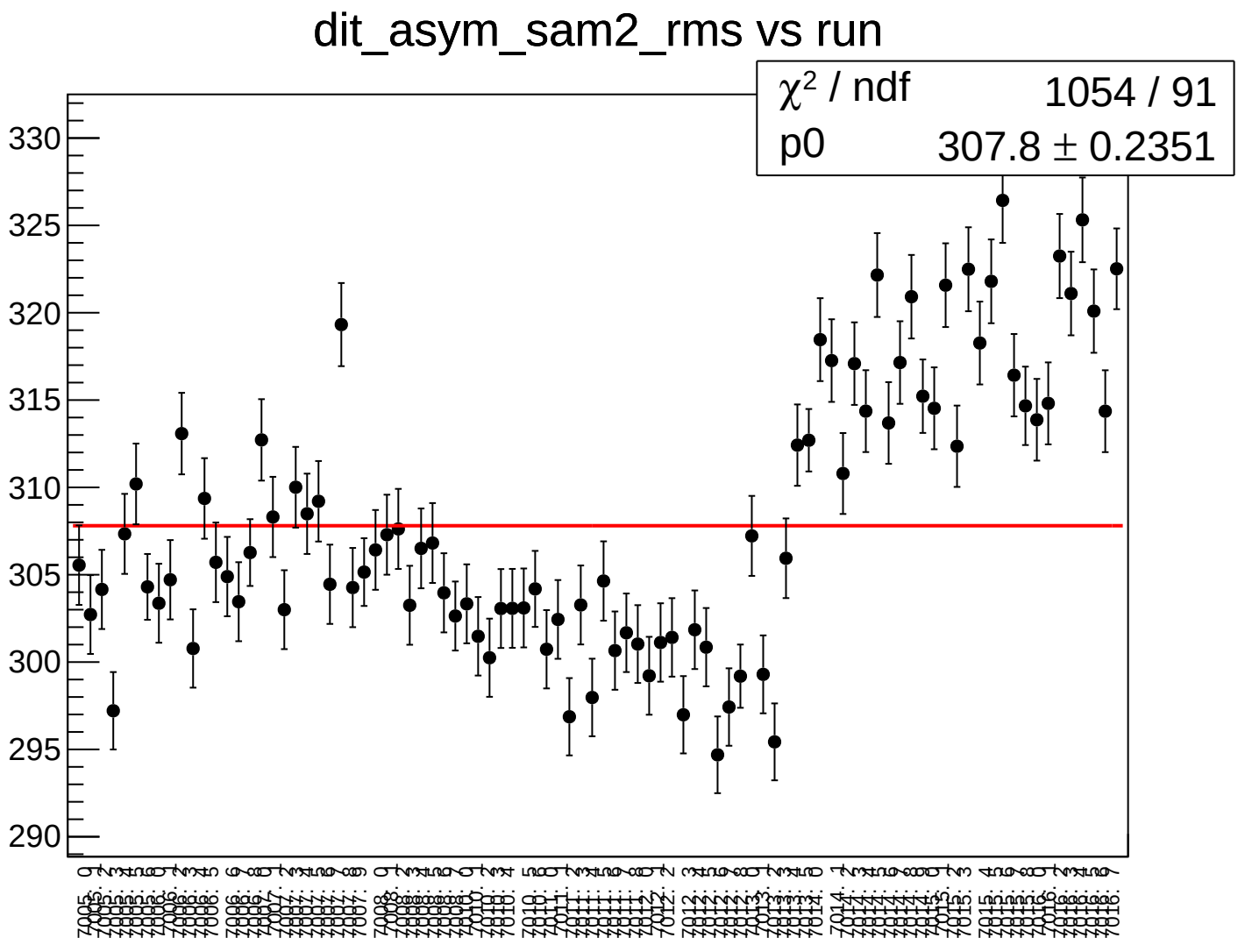

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1154 / 91
p0 282.8 ± 0.216
300
295
290
285
280
275
270
265

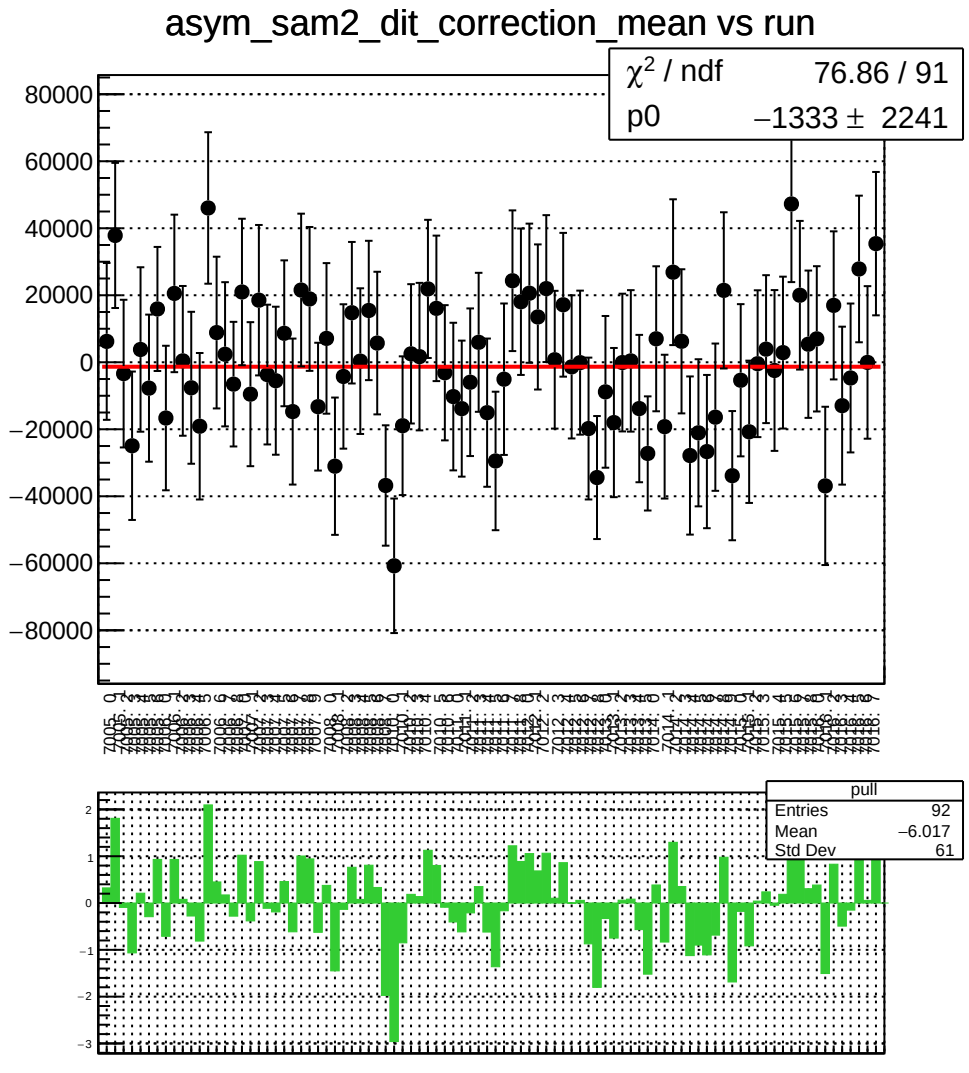

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 77.56 / 91
p0 −1264 ± 2153
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −2.245
Std Dev 64.58
pull1D
Entries 92
Mean 0.0192
Std Dev 0.918

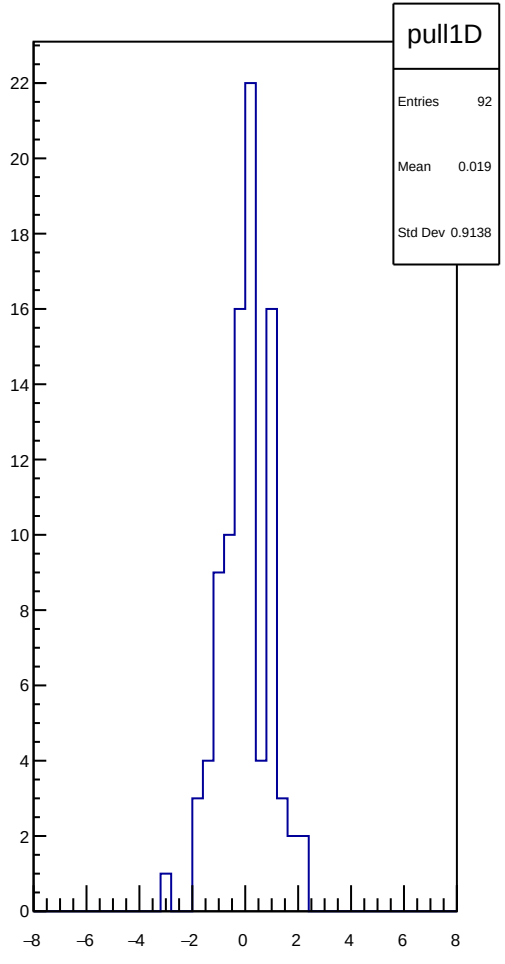

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 3236 / 91
p0 1992 ± 1.522
2300
2200
2100
2000
1900
1800

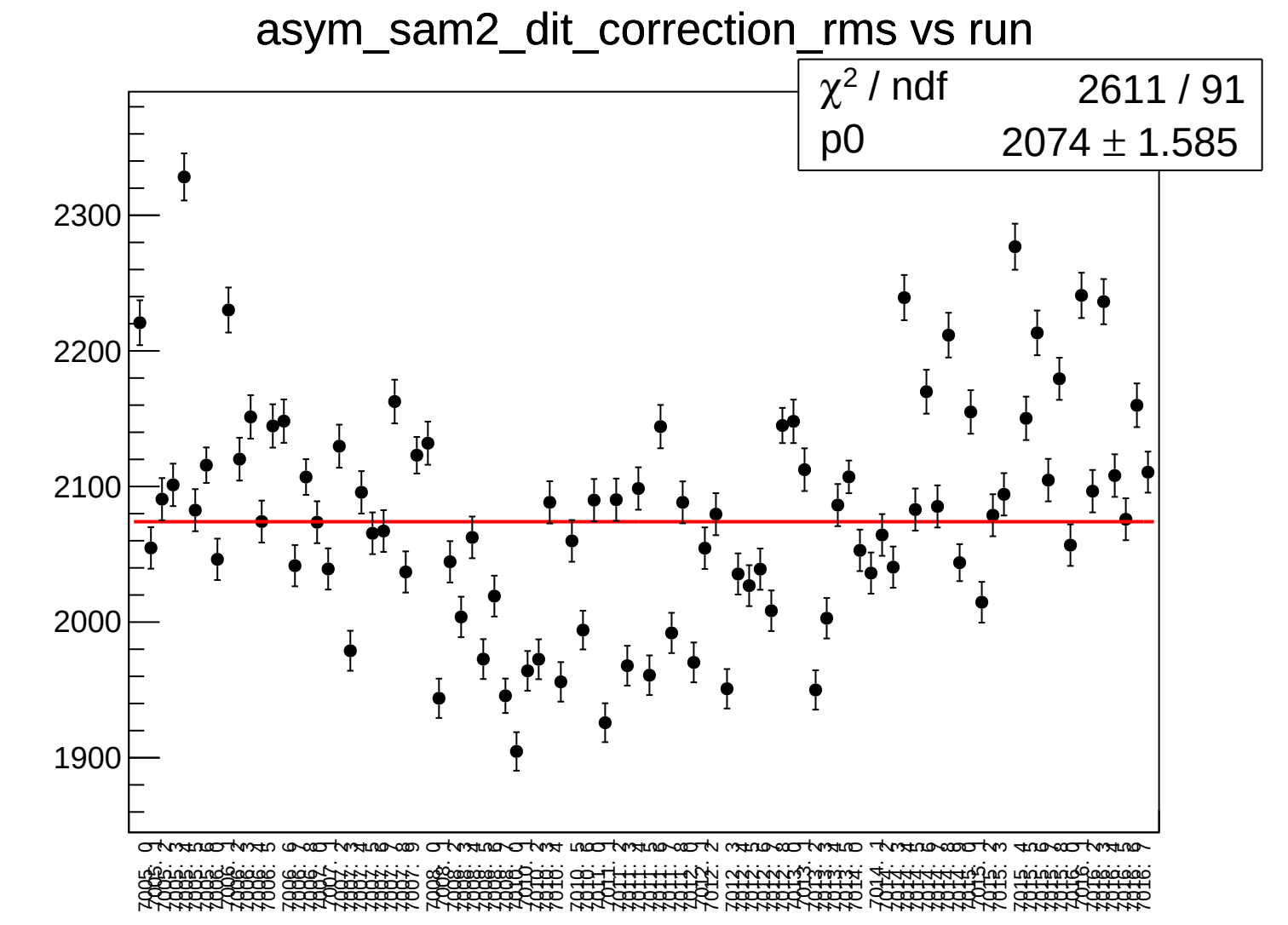

dit_asym_sam2_mean vs run
χ² / ndf 80.01 / 91
p0 −868.4 ± 332.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1399
Std Dev 0
2
1
0
−1
−2
−3

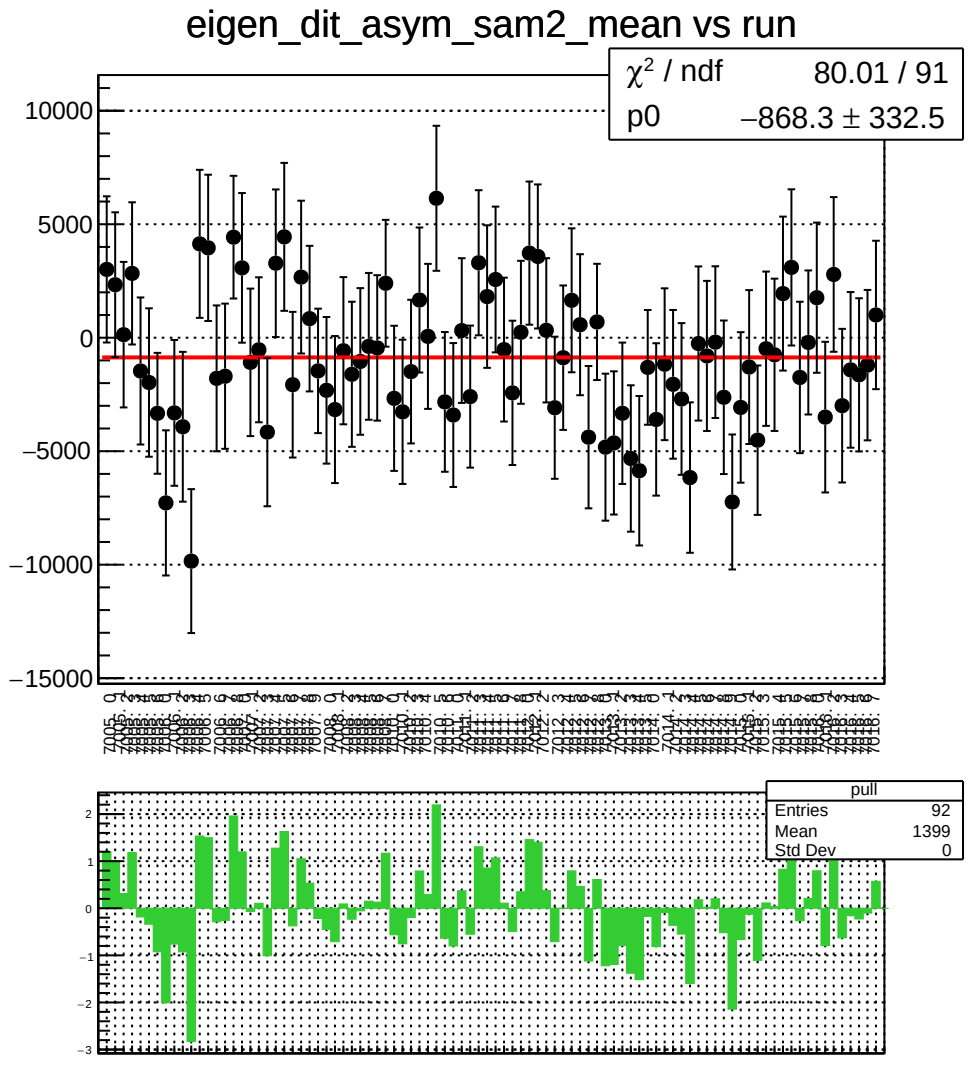

pull1D
Entries 92
Mean −0.002366
Std Dev 0.9326
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

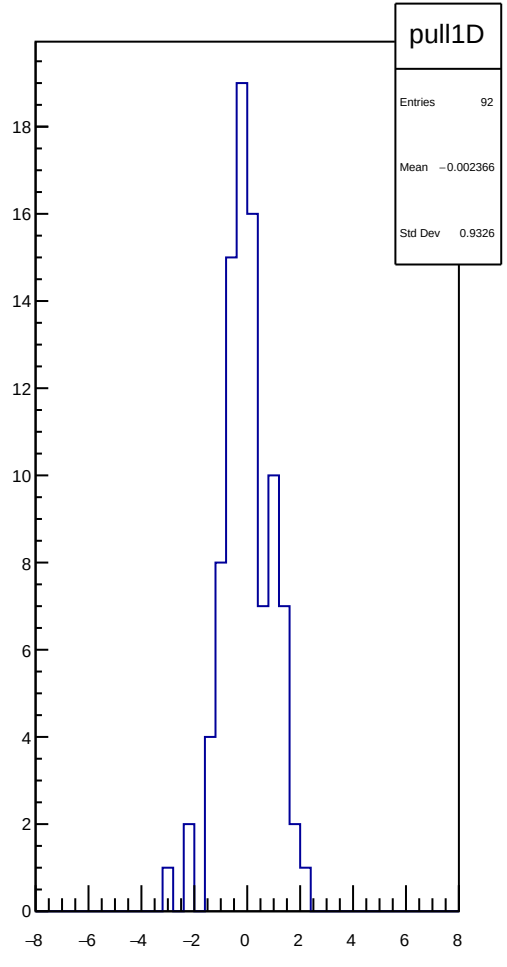

dit_asym_sam2_rms vs run
χ² / ndf 1054 / 91
p0 307.8 ± 0.2351
330
325
320
315
310
305
300
295
290

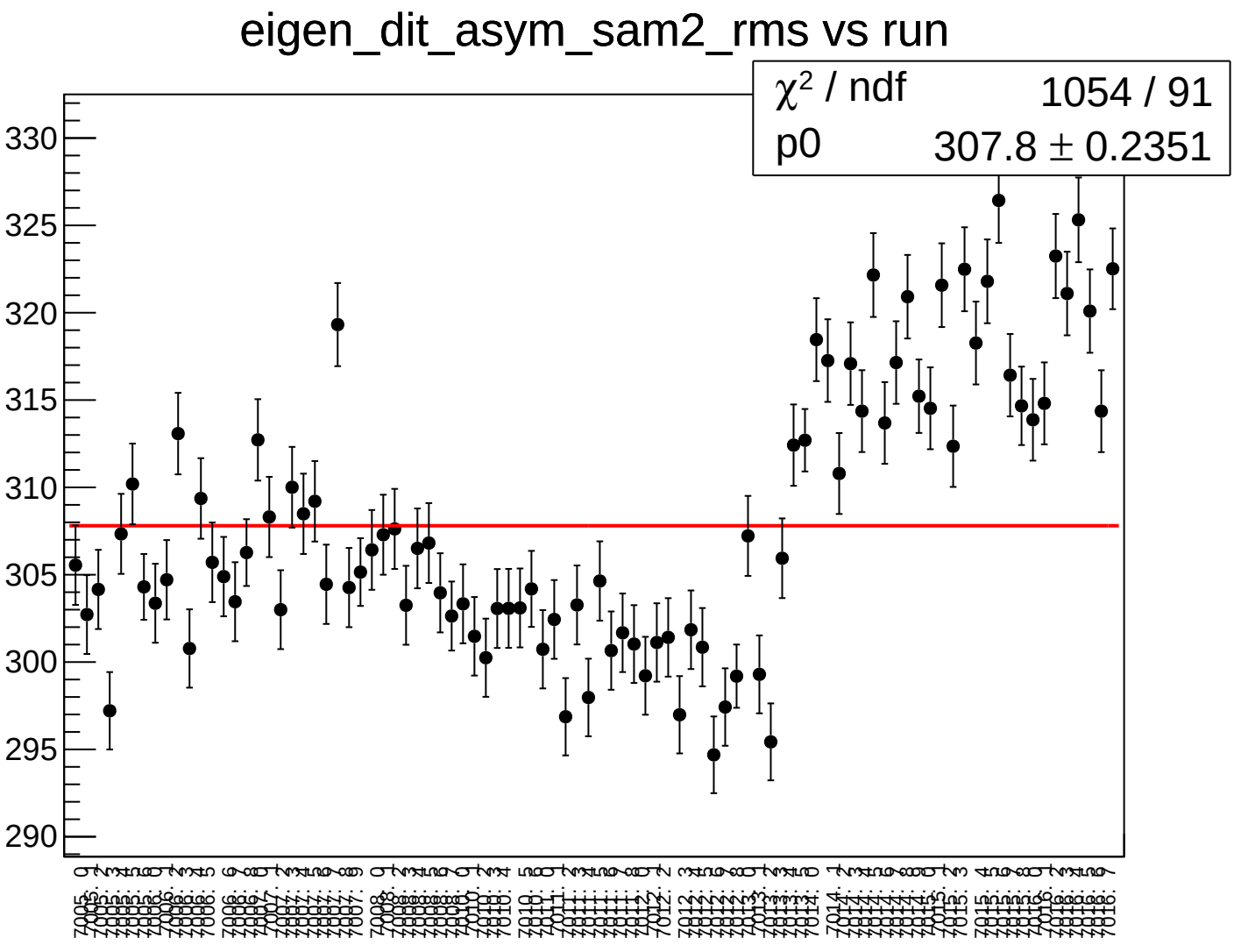

asym_sam2_dit_correction_mean vs run
χ² / ndf 76.86 / 91
p0 −1333 ± 2241
pull
Entries 92
Mean −6.017
Std Dev 61

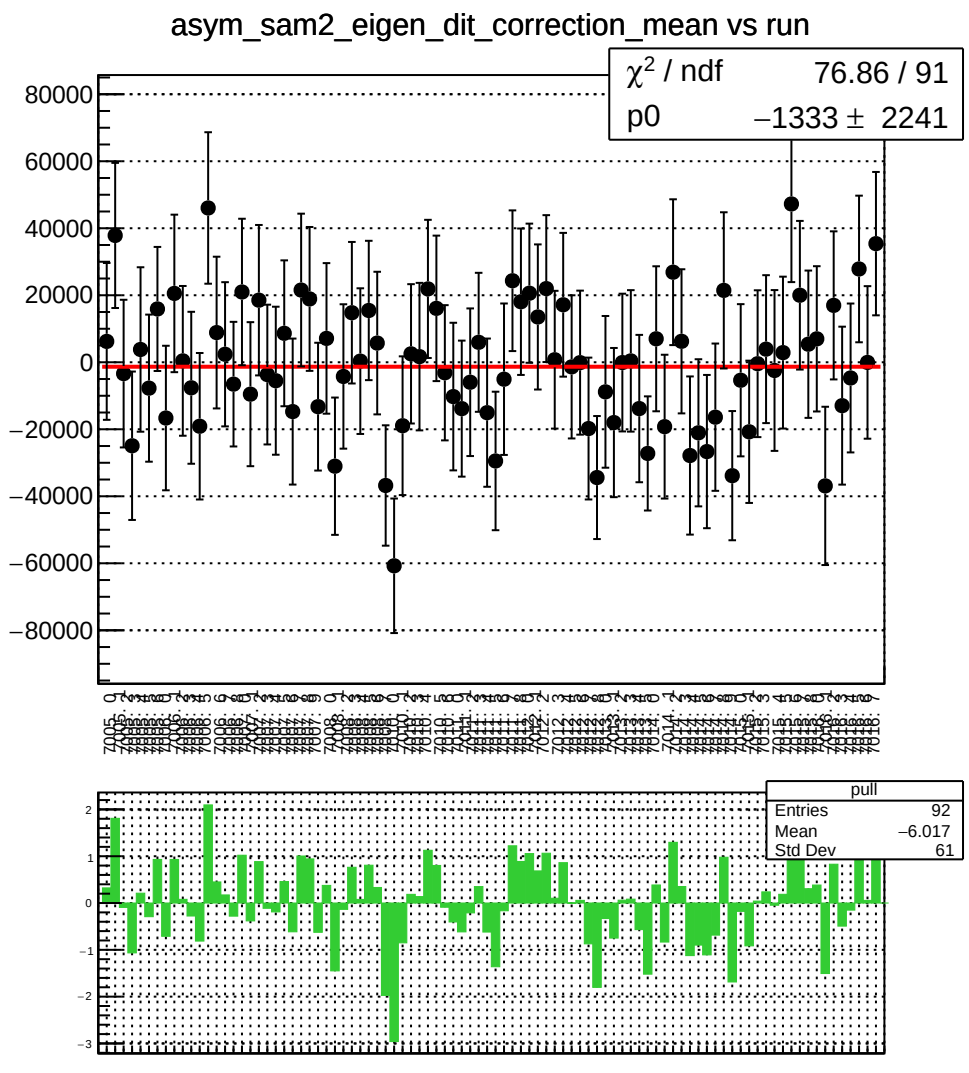

pull1D
Entries 92
Mean 0.019
Std Dev 0.9138

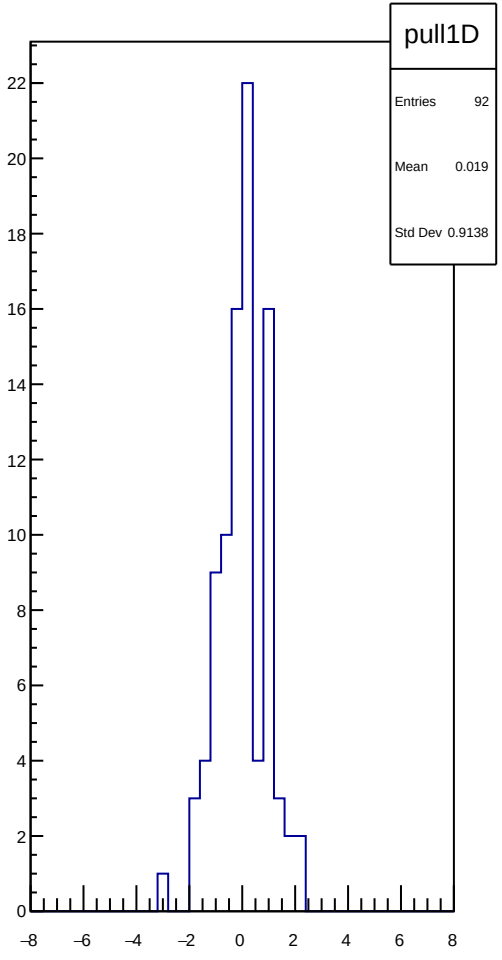

asym_sam2_dit_correction_rms vs run
χ² / ndf 2611 / 91
p0 2074 ± 1.585
2300
2200
2100
2000
1900

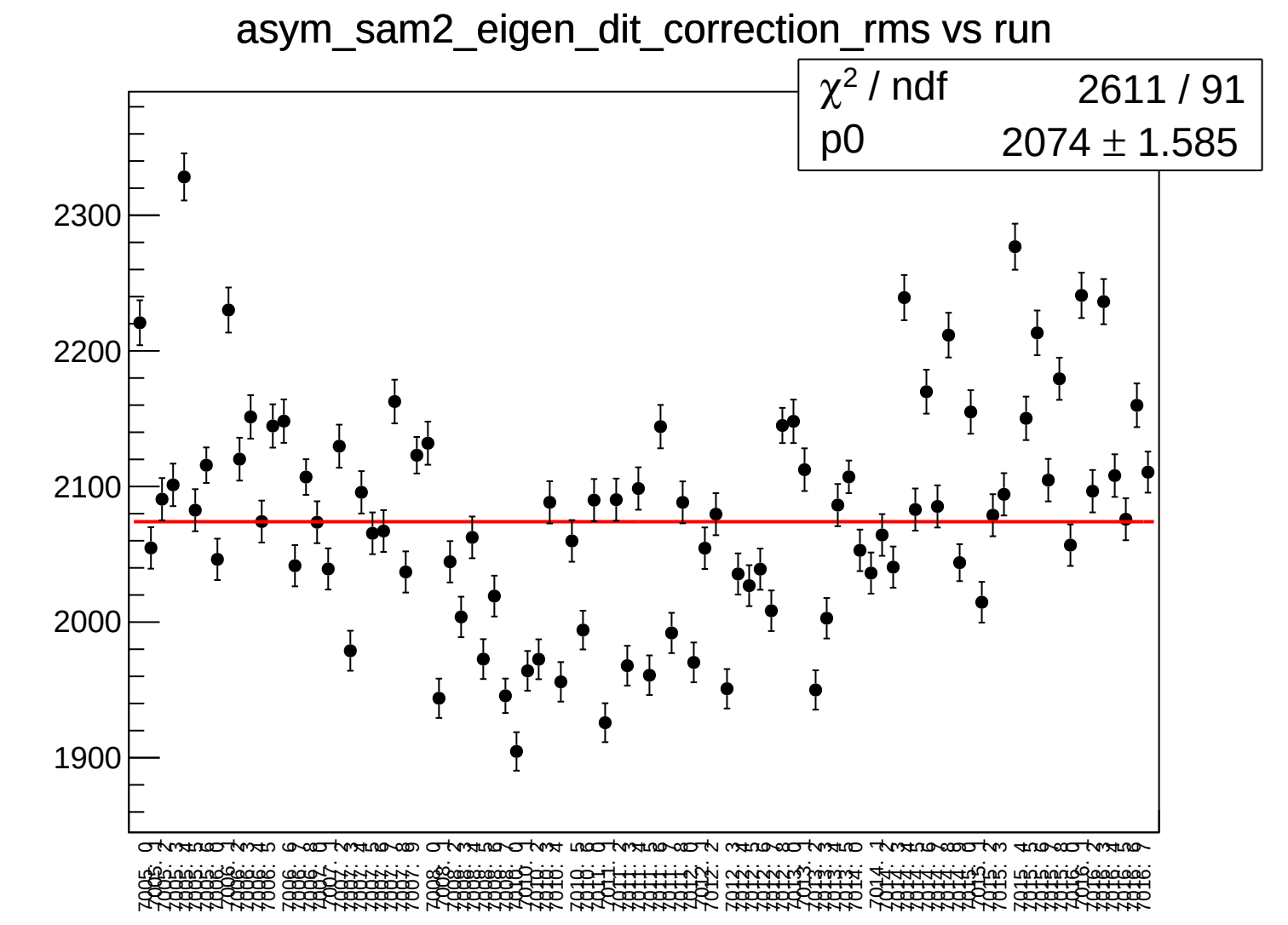

eigen_dit_asym_sam2_mean vs run
χ² / ndf 80.01 / 91
p0 −868.3 ± 332.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 1399
Std Dev 0
2
1
0
−1
−2
−3

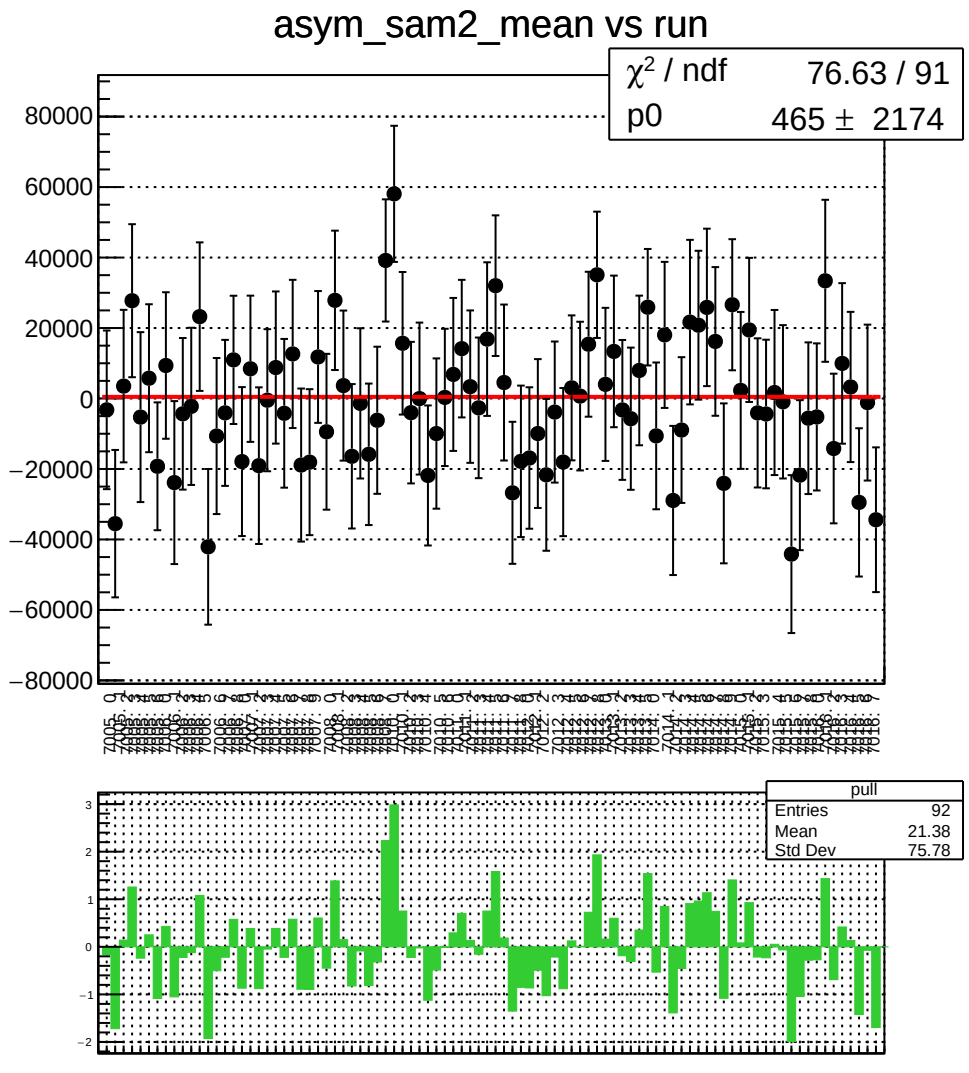

pull1D
Entries 92
Mean −0.002366
Std Dev 0.9326
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

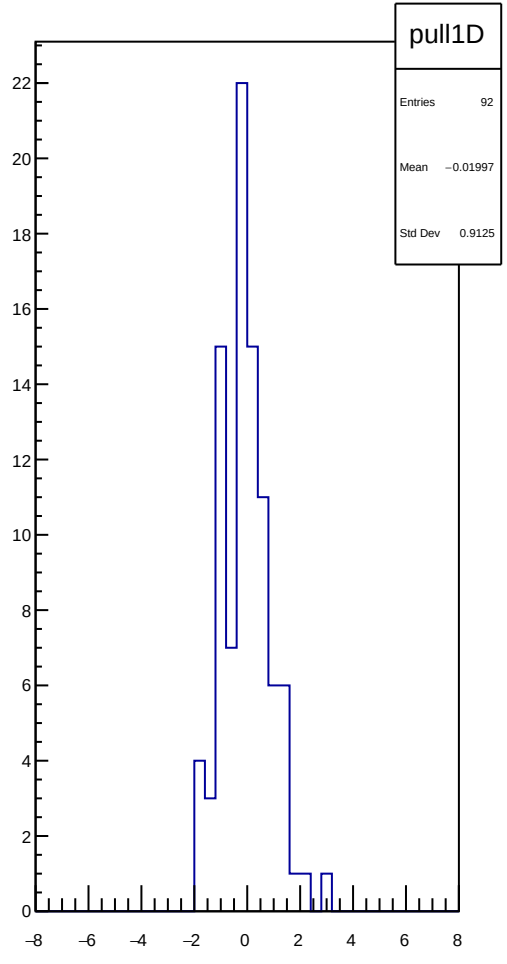

eigen_dit_asym_sam2_rms vs run
χ² / ndf 1054 / 91
p0 307.8 ± 0.2351
330
325
320
315
310
305
300
295
290

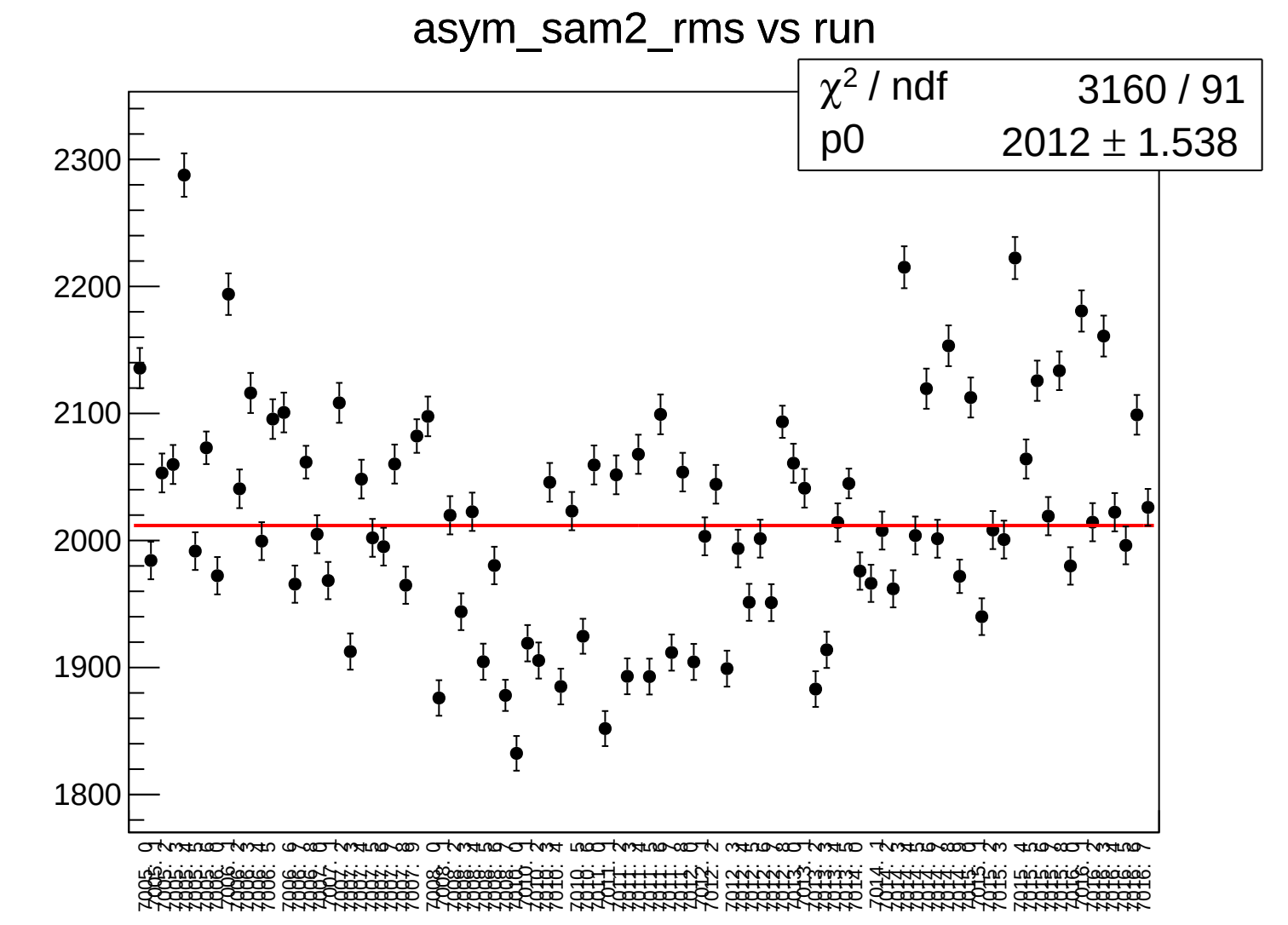

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 76.86 / 91
p0 −1333 ± 2241
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −6.017
Std Dev 61
2
1
0
−1
−2
−3

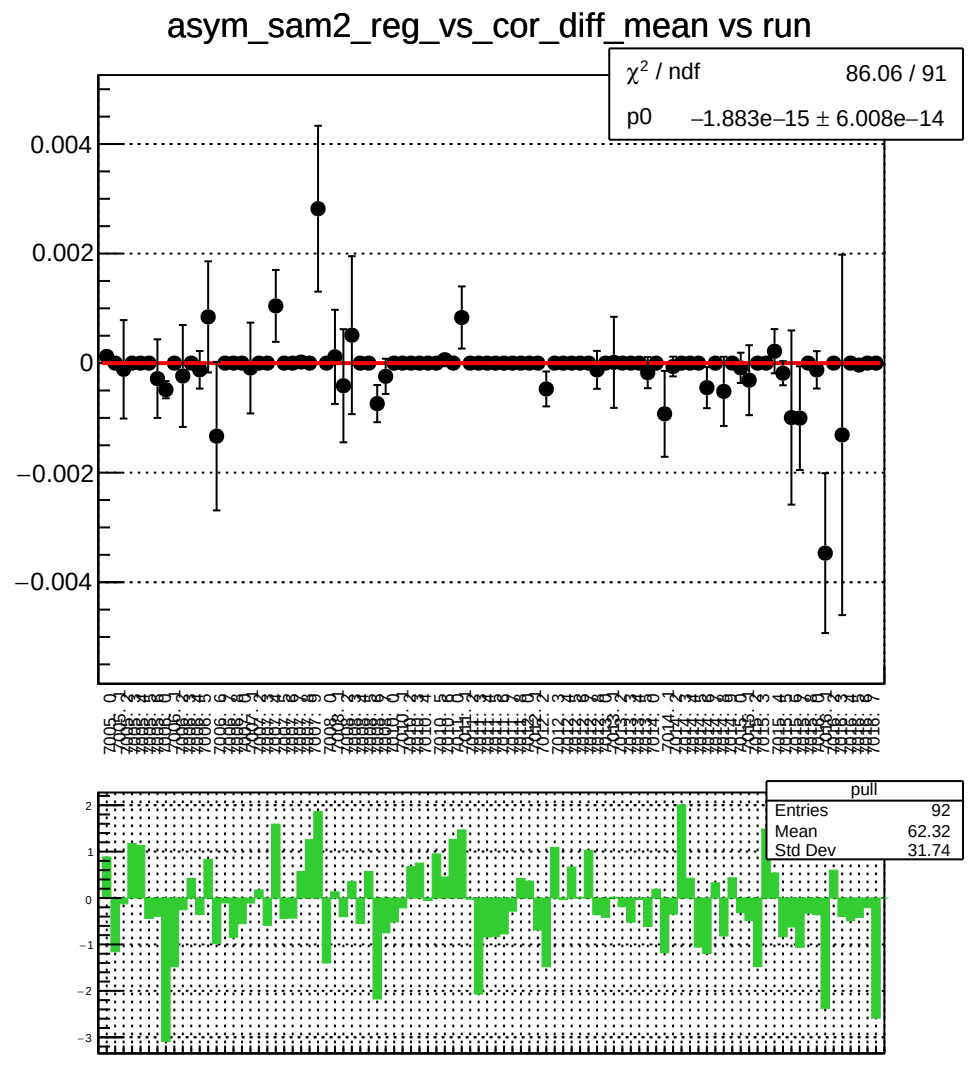

pull1D
Entries 92
Mean 0.019
Std Dev 0.9138
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

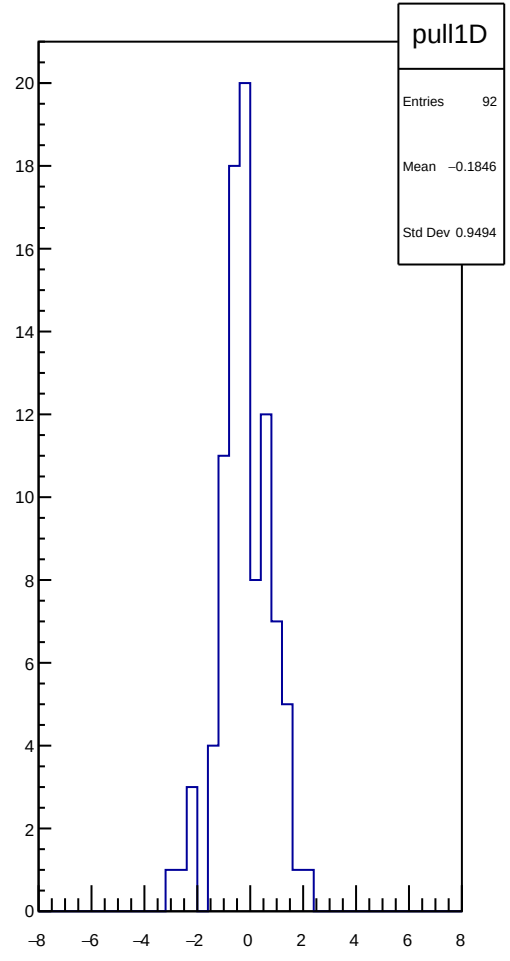

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 2611 / 91
p0 2074 ± 1.585
2300
2200
2100
2000
1900

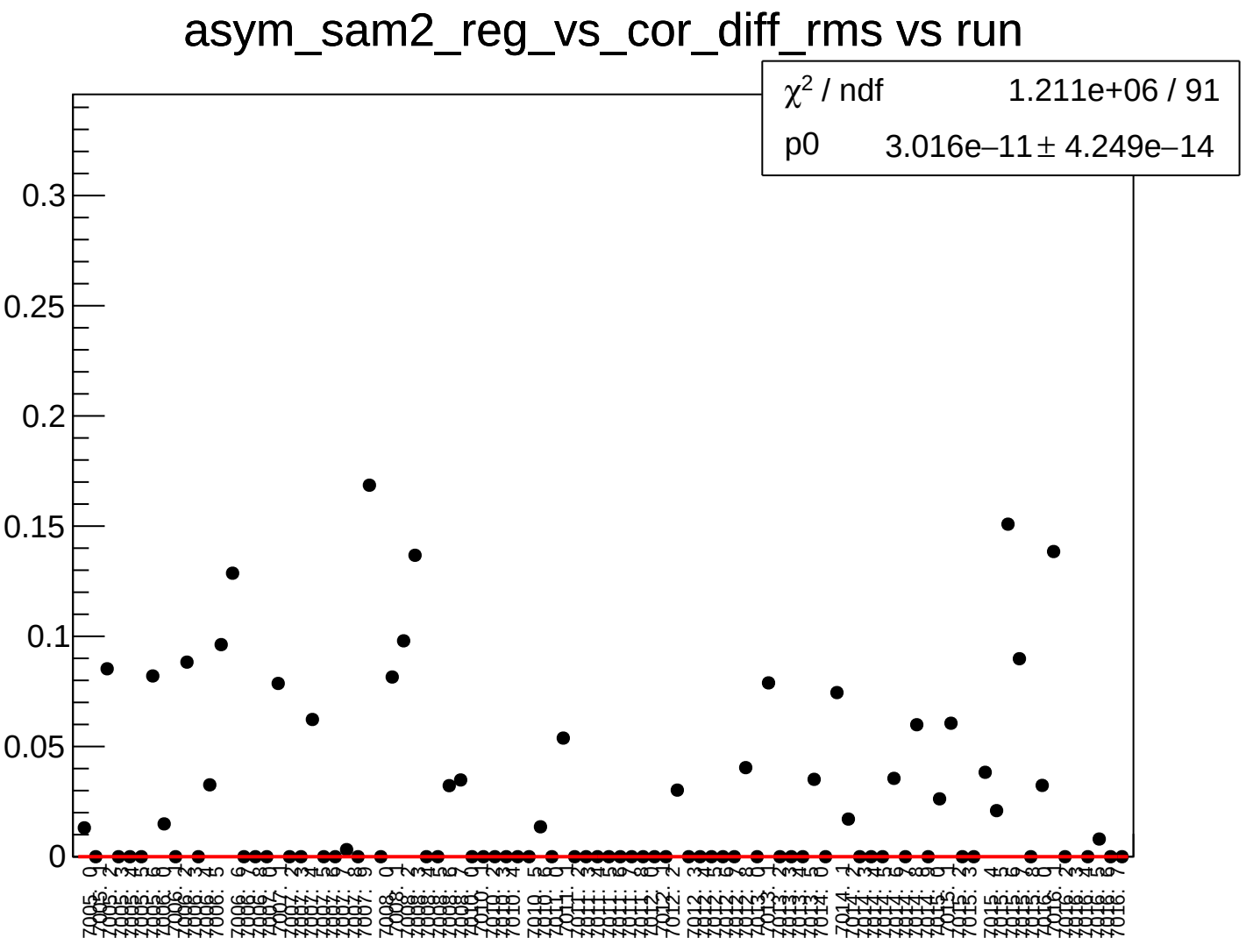

asym_sam2_mean vs run
χ² / ndf 76.63 / 91
p0 465 ± 2174
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 21.38
Std Dev 75.78
3
2
1
0
−1
−2

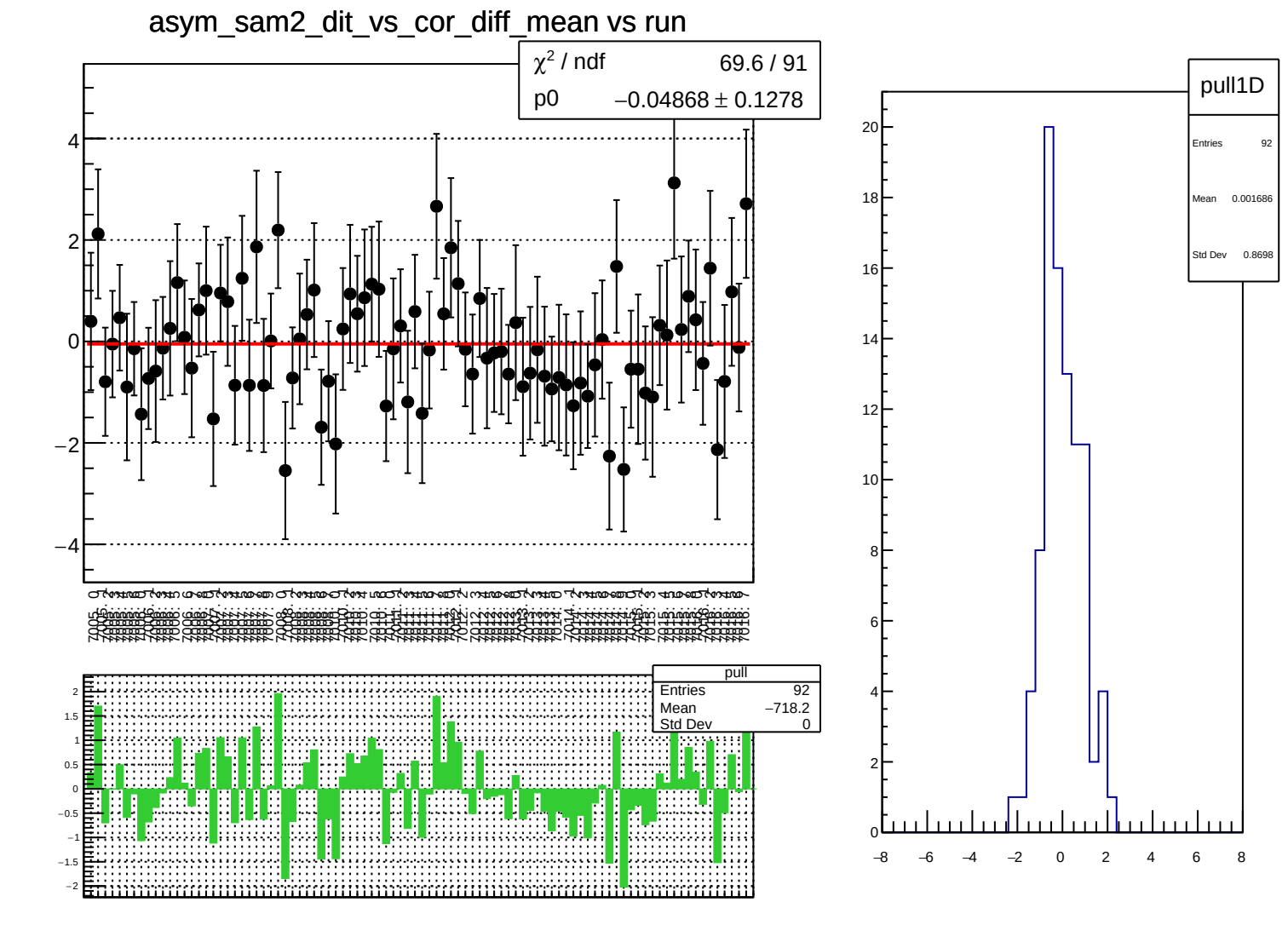

pull1D
Entries 92
Mean −0.01997
Std Dev 0.9125
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

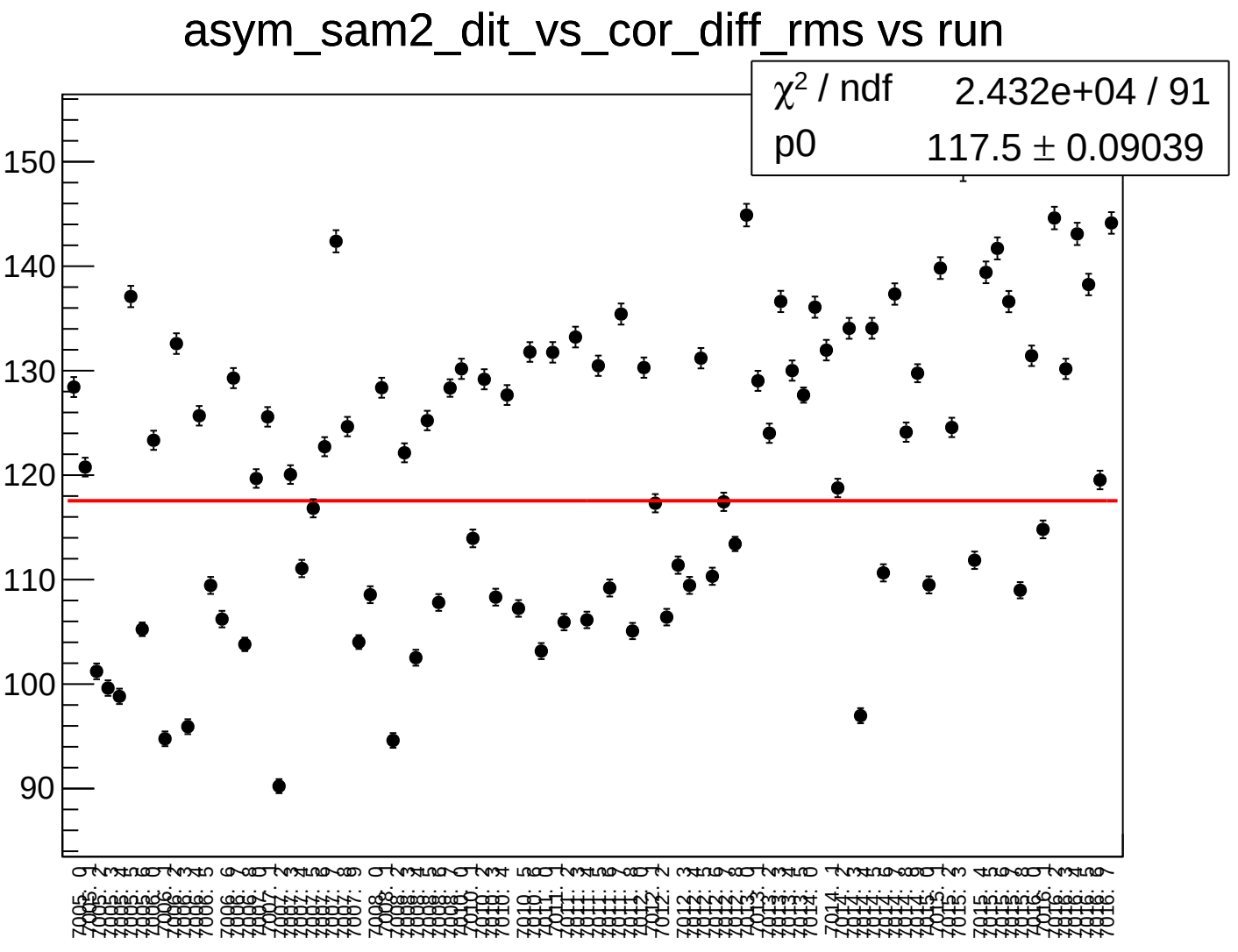

asym_sam2_rms vs run
$\chi^2$ / ndf 3160 / 91
p0 2012 ± 1.538
2300
2200
2100
2000
1900
1800

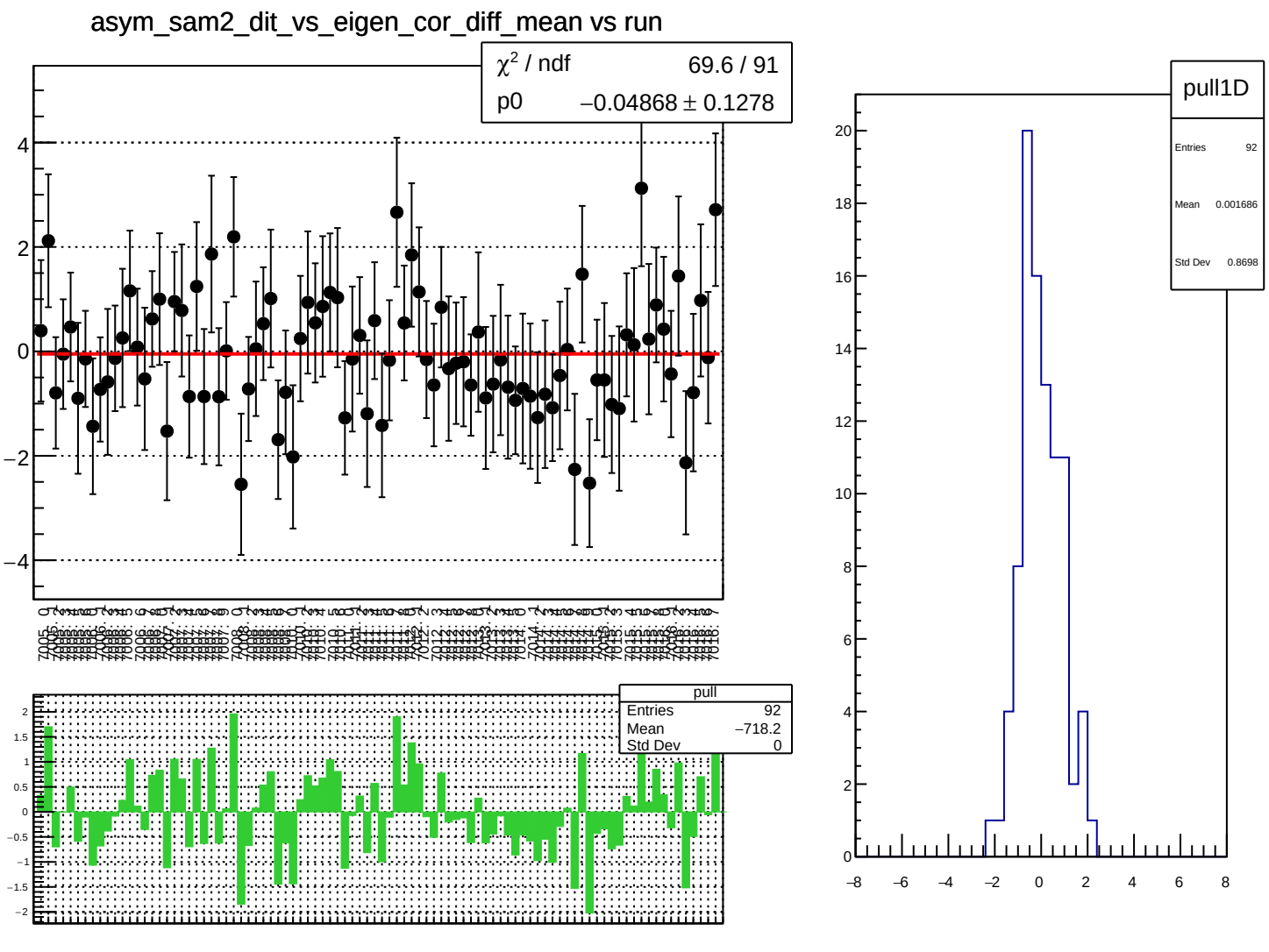

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 86.06 / 91
p0 −1.883e−15 ± 6.008e−14
0.004
0.002
0
−0.002
−0.004
pull
Entries 92
Mean 62.32
Std Dev 31.74
2
1
0
−1
−2
−3

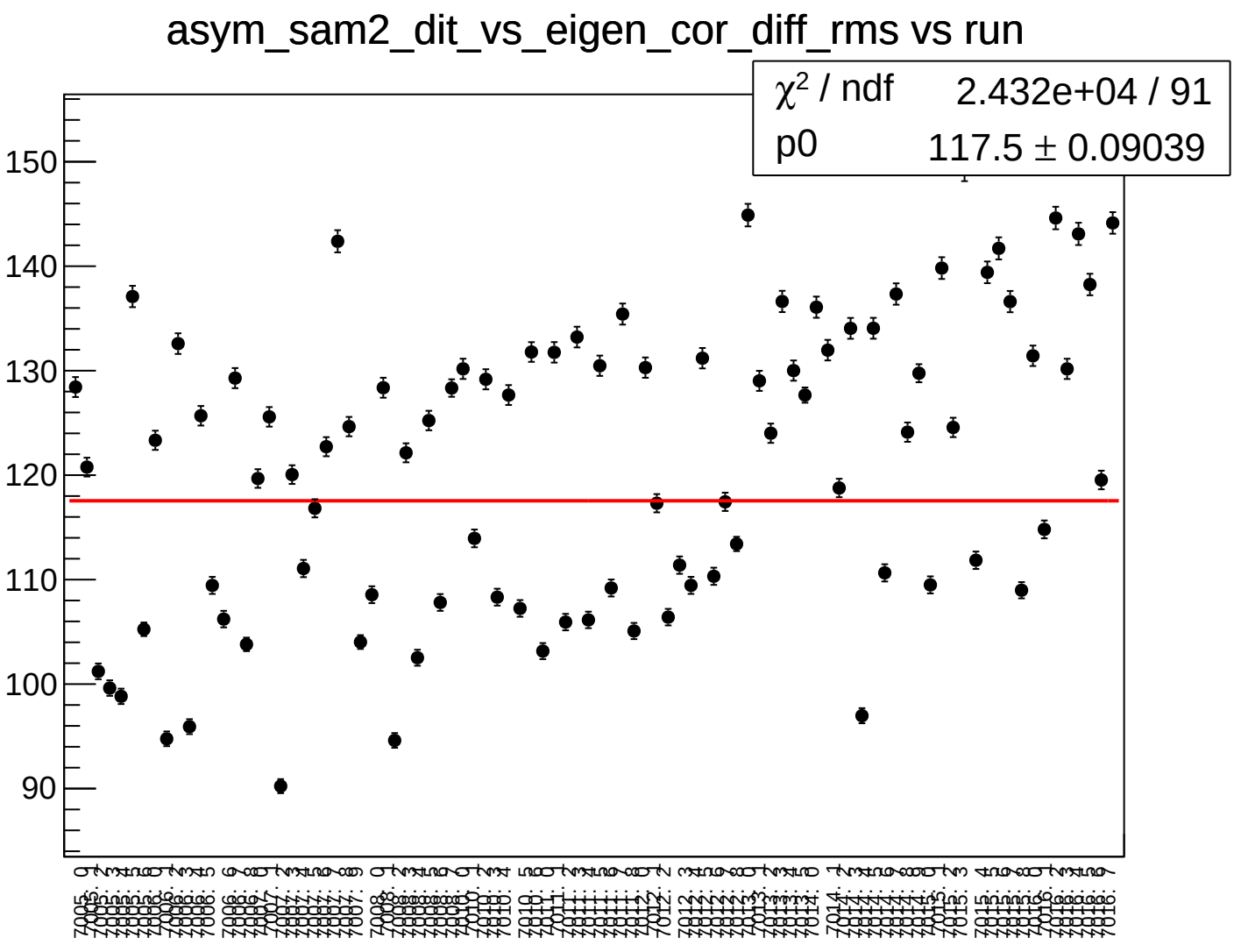

pull1D
Entries 92
Mean −0.1846
Std Dev 0.9494
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

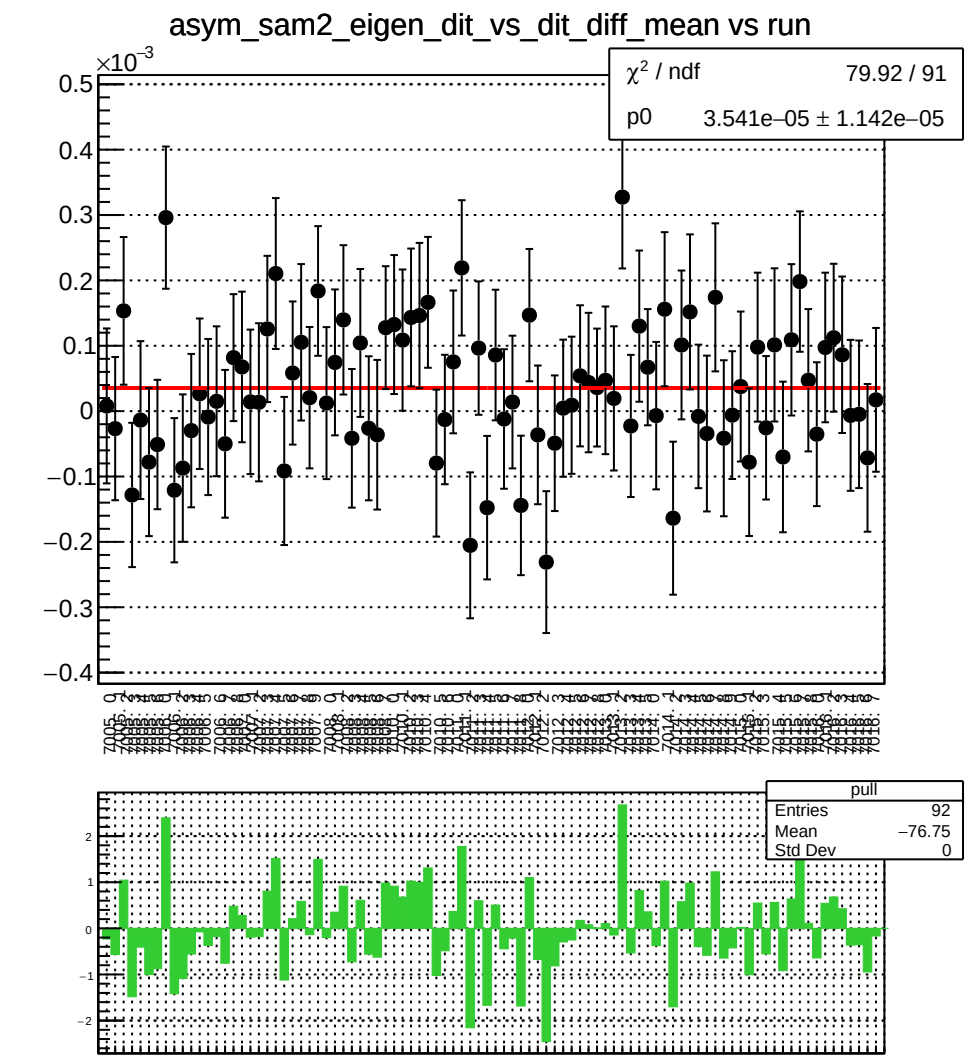

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.211e+06 / 91
p0 3.016e−11 ± 4.249e−14
0.3
0.25
0.2
0.15
0.1
0.05
0

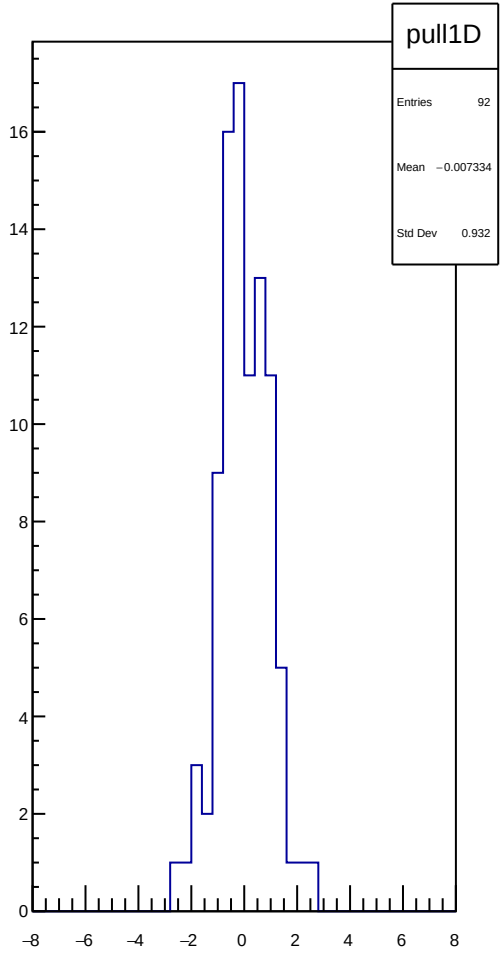

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 69.6 / 91
p0 −0.04868 ± 0.1278
pull
Entries 92
Mean −718.2
Std Dev 0
pull1D
Entries 92
Mean 0.001686
Std Dev 0.8698

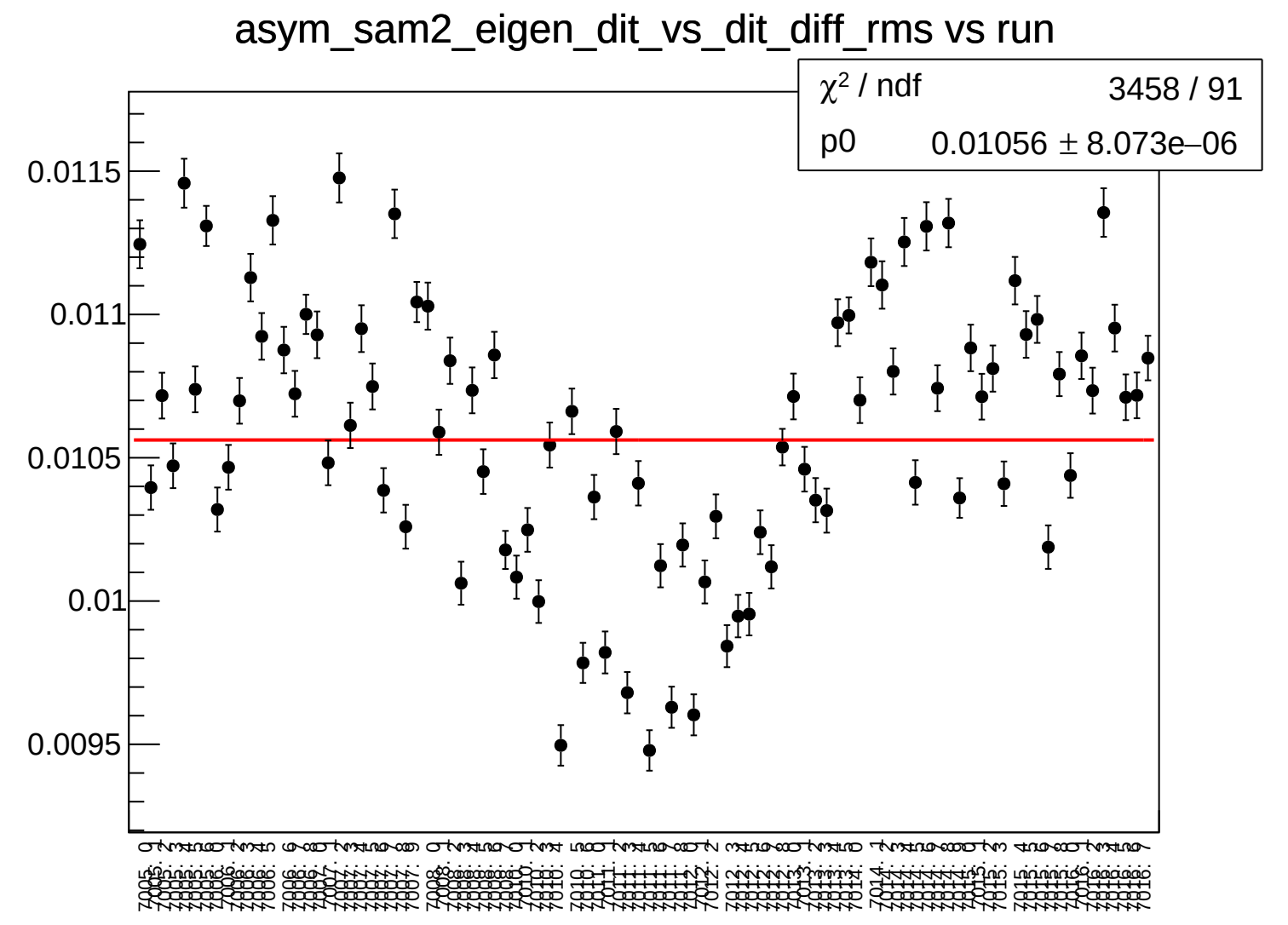

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.432e+04 / 91
p0 117.5 ± 0.09039
150
140
130
120
110
100
90

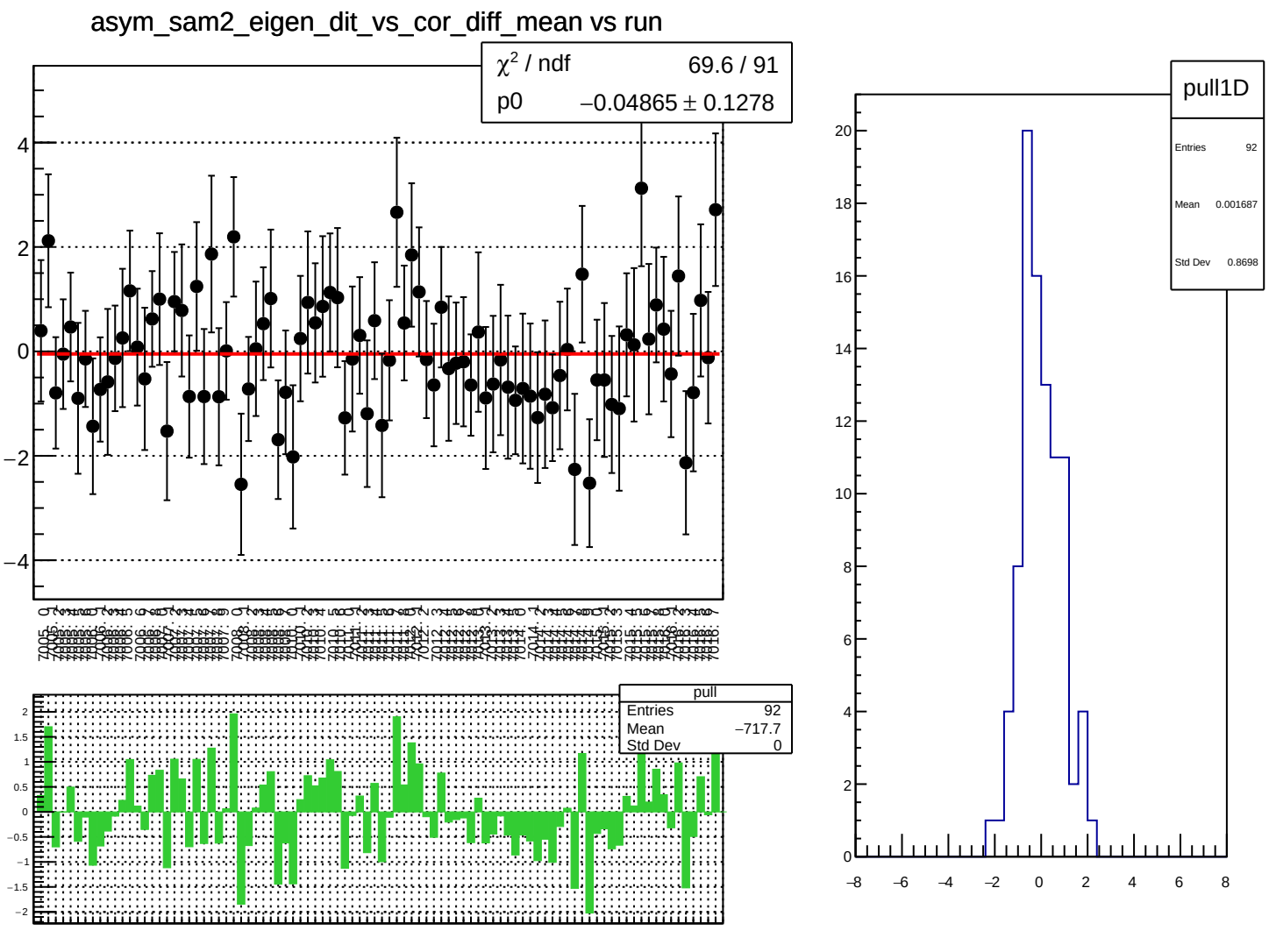

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.6 / 91
p0 −0.04868 ± 0.1278
pull
Entries 92
Mean −718.2
Std Dev 0
pull1D
Entries 92
Mean 0.001686
Std Dev 0.8698

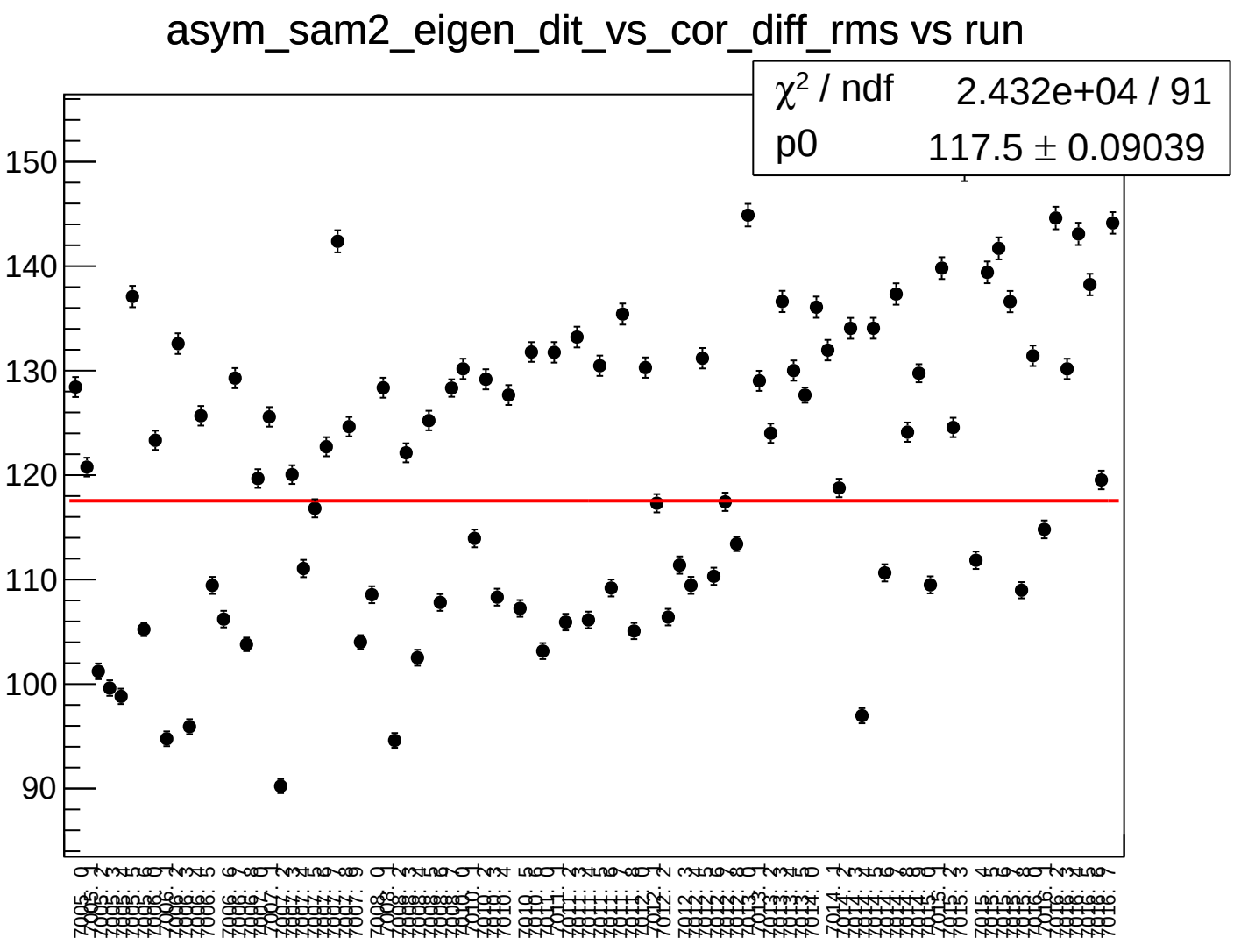

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.432e+04 / 91
p0 117.5 ± 0.09039
150
140
130
120
110
100
90

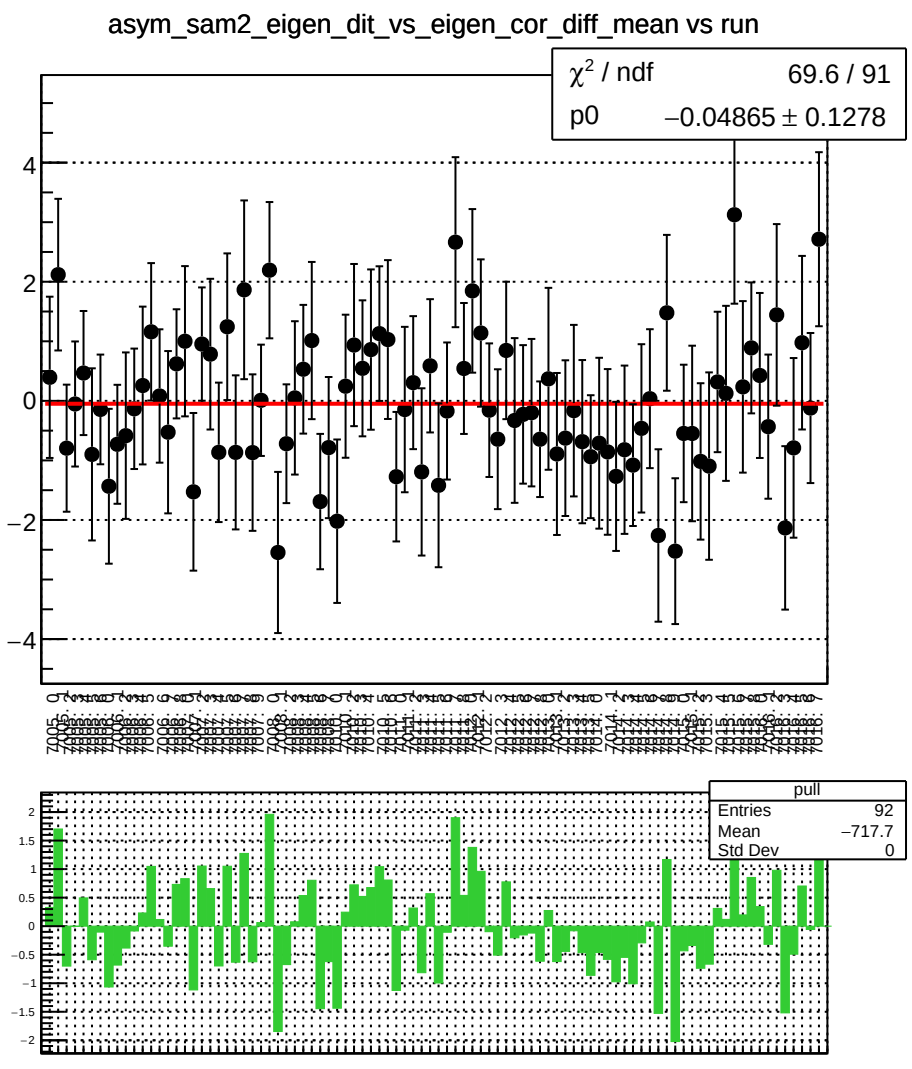

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.92 / 91
p0 3.541e−05 ± 1.142e−05
pull
Entries 92
Mean −76.75
Std Dev 0

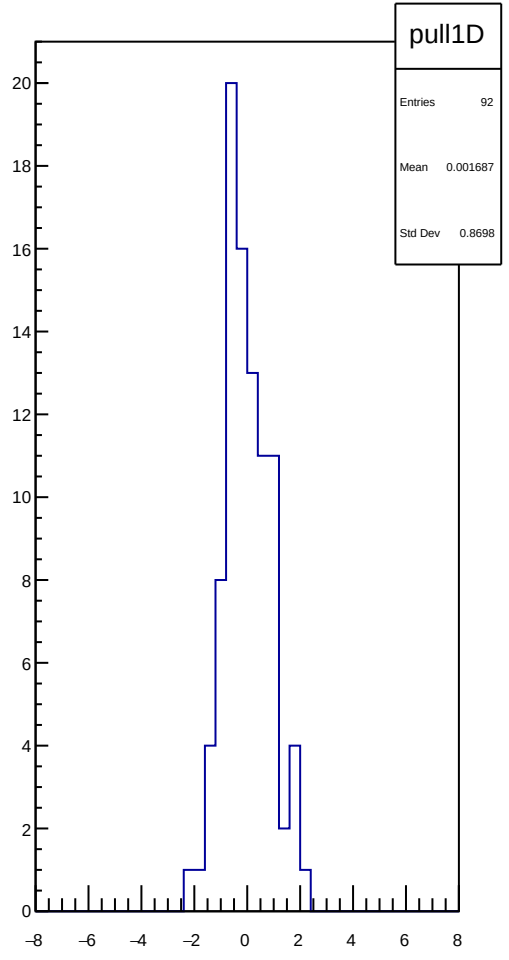

pull1D
Entries 92
Mean −0.007334
Std Dev 0.932

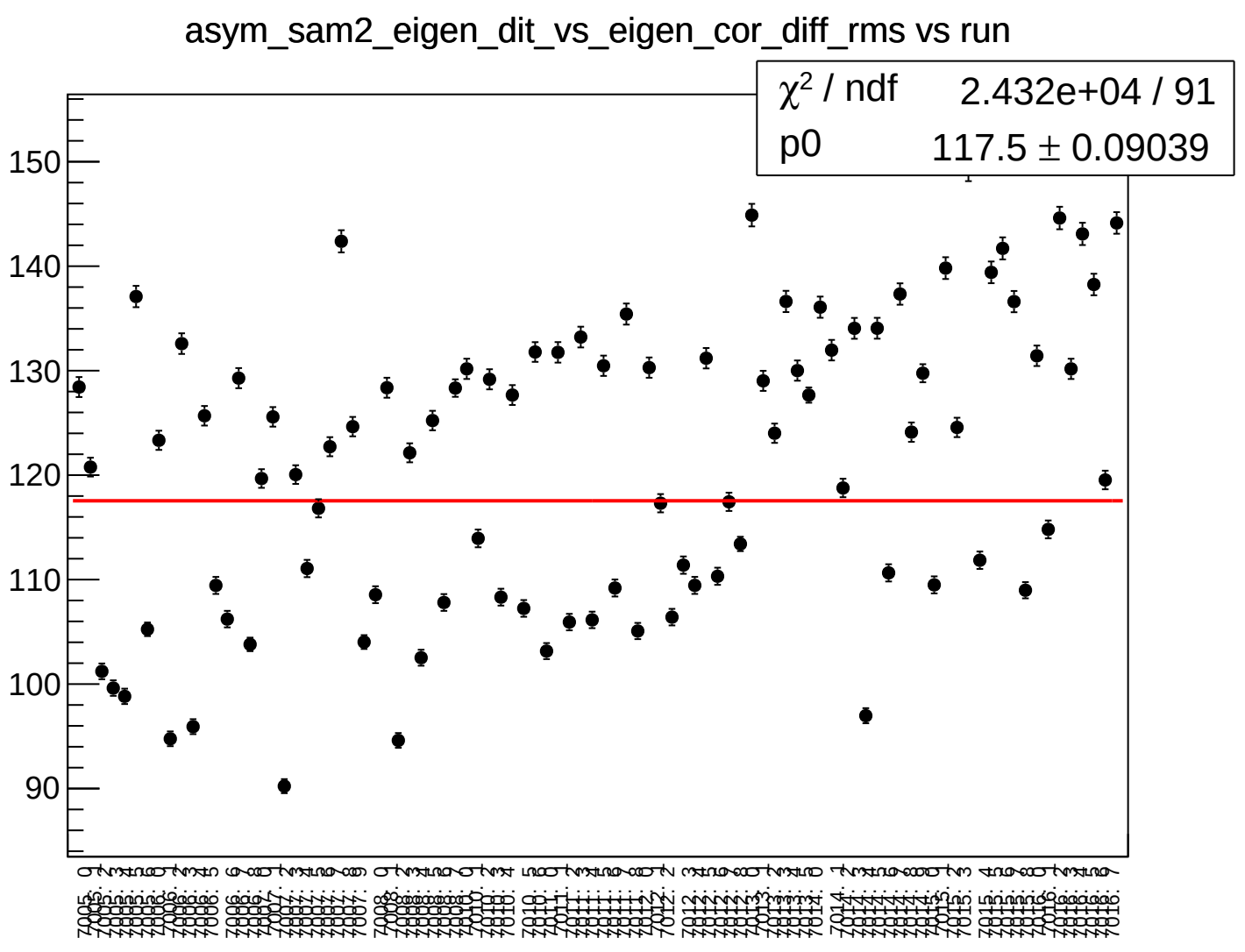

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3458 / 91
p0 0.01056 ± 8.073e–06
0.0115
0.011
0.0105
0.01
0.0095

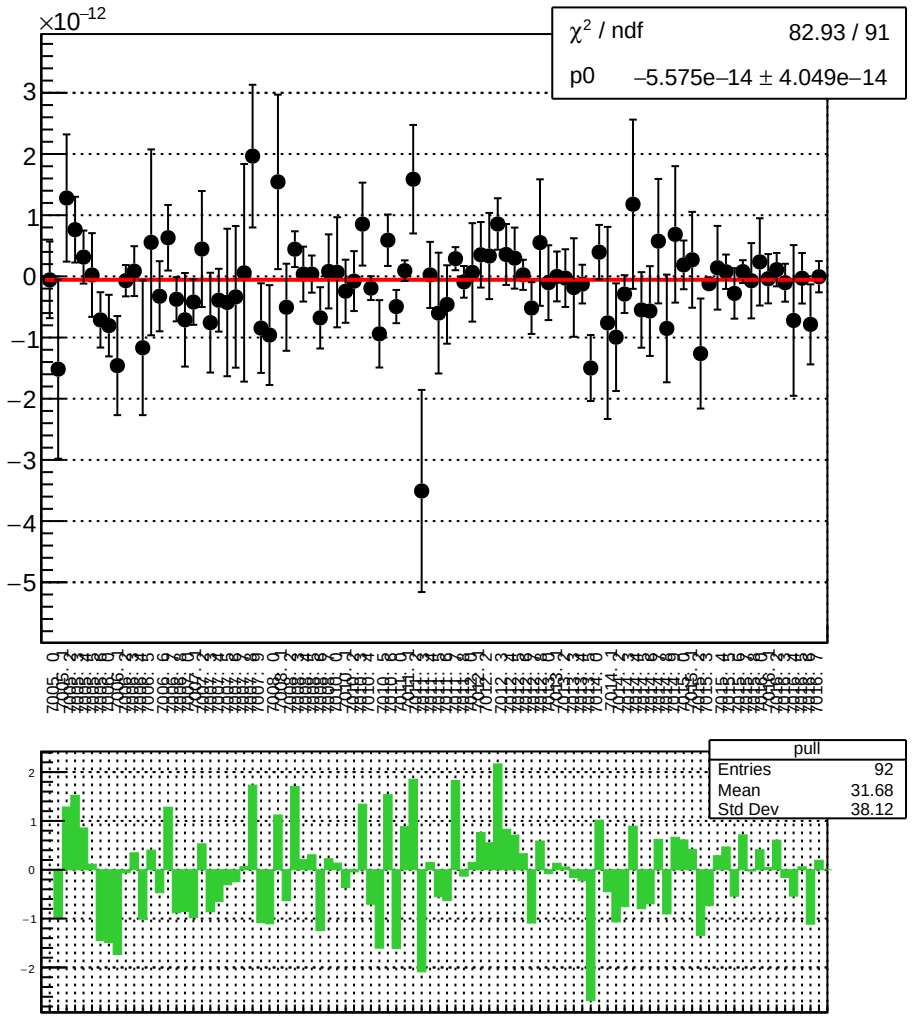

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.6 / 91
p0 −0.04865 ± 0.1278
pull
Entries 92
Mean −717.7
Std Dev 0
pull1D
Entries 92
Mean 0.001687
Std Dev 0.8698

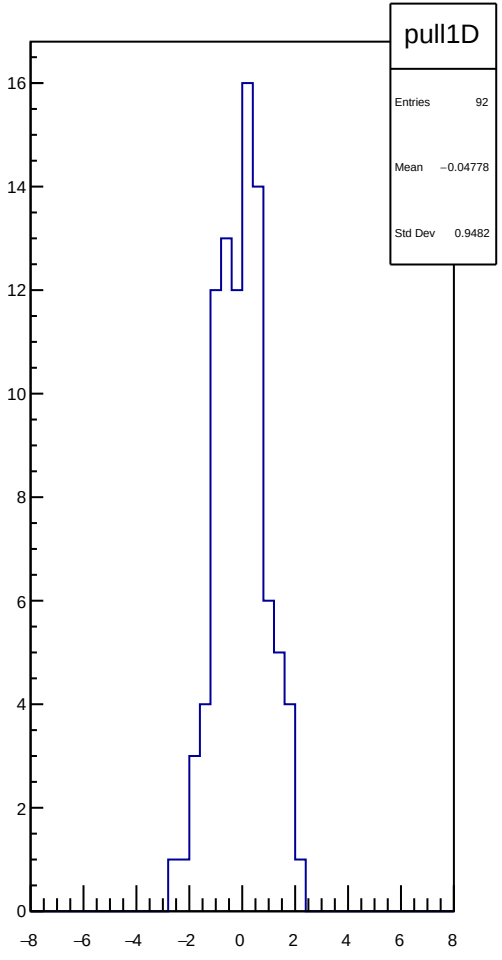

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.432e+04 / 91
p0 117.5 ± 0.09039
150
140
130
120
110
100
90

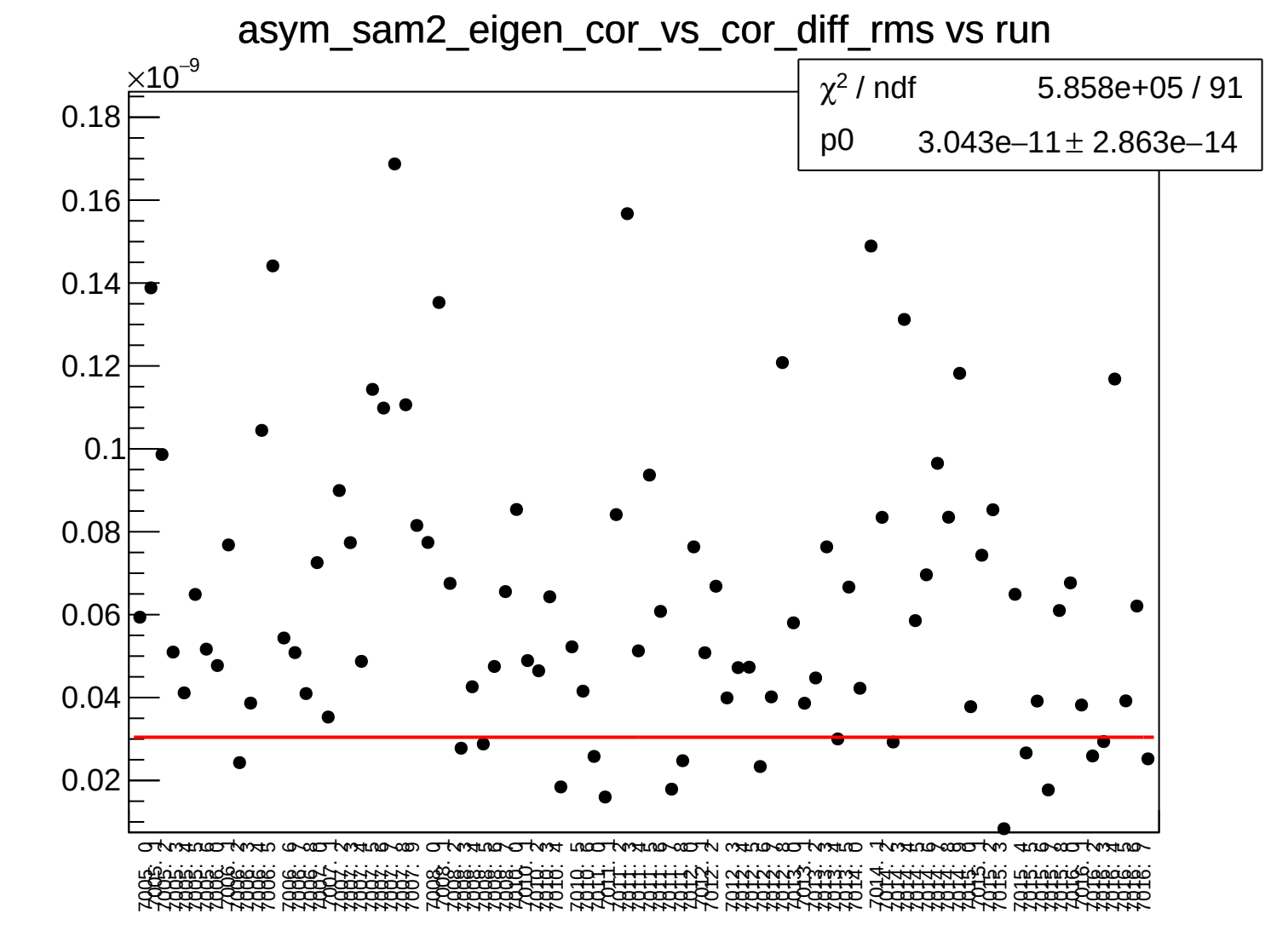

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.6 / 91
p0 −0.04865 ± 0.1278
pull
Entries 92
Mean −717.7
Std Dev 0

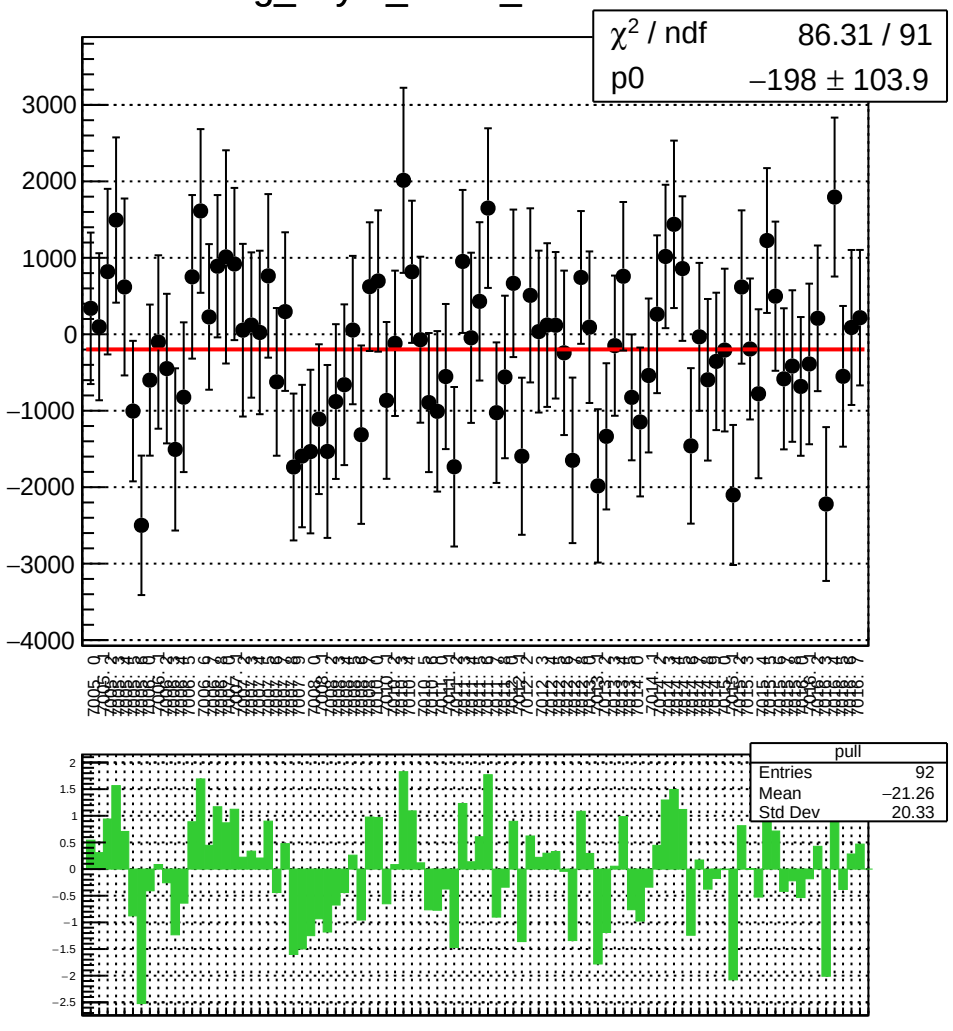

pull1D
Entries 92
Mean 0.001687
Std Dev 0.8698

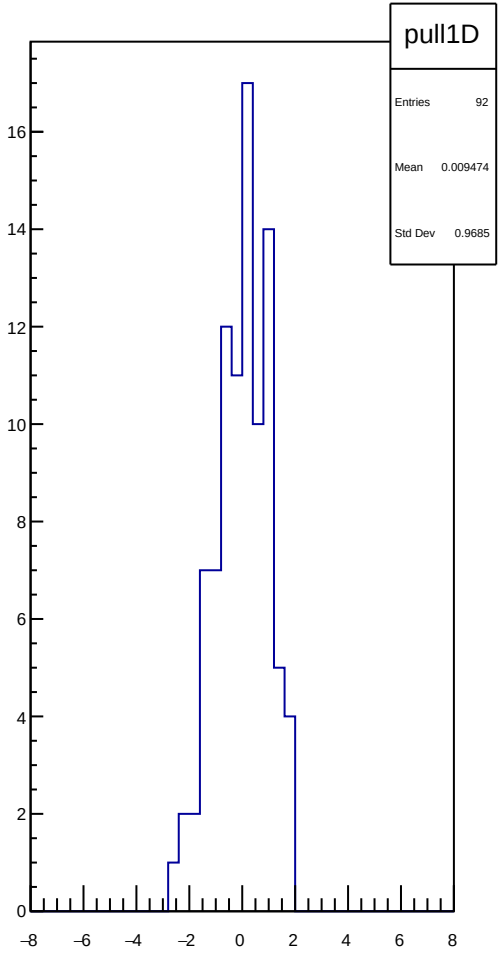

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.432e+04 / 91
p0 117.5 ± 0.09039
150
140
130
120
110
100
90

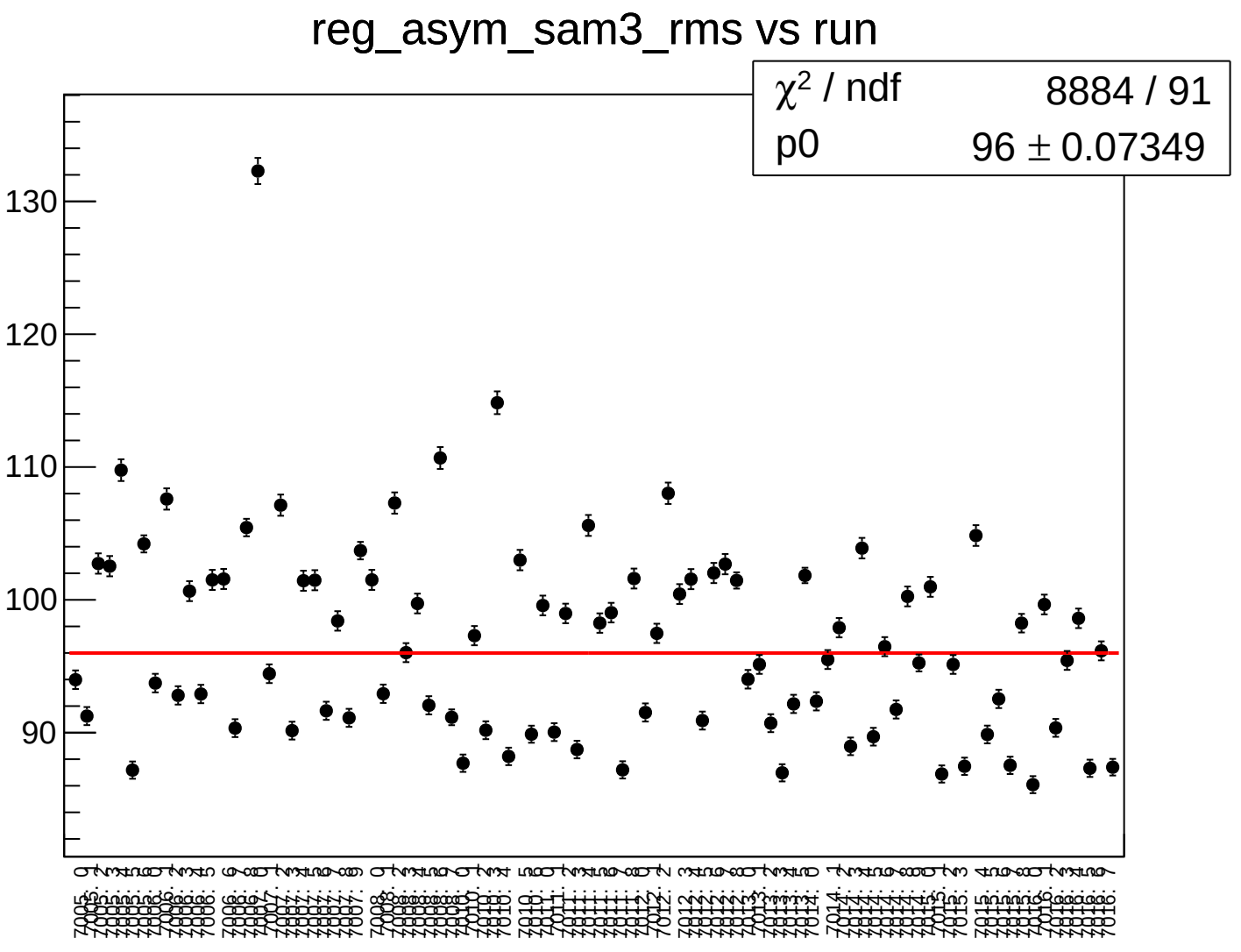

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.93 / 91
p0 −5.575e−14 ± 4.049e−14
pull
Entries 92
Mean 31.68
Std Dev 38.12

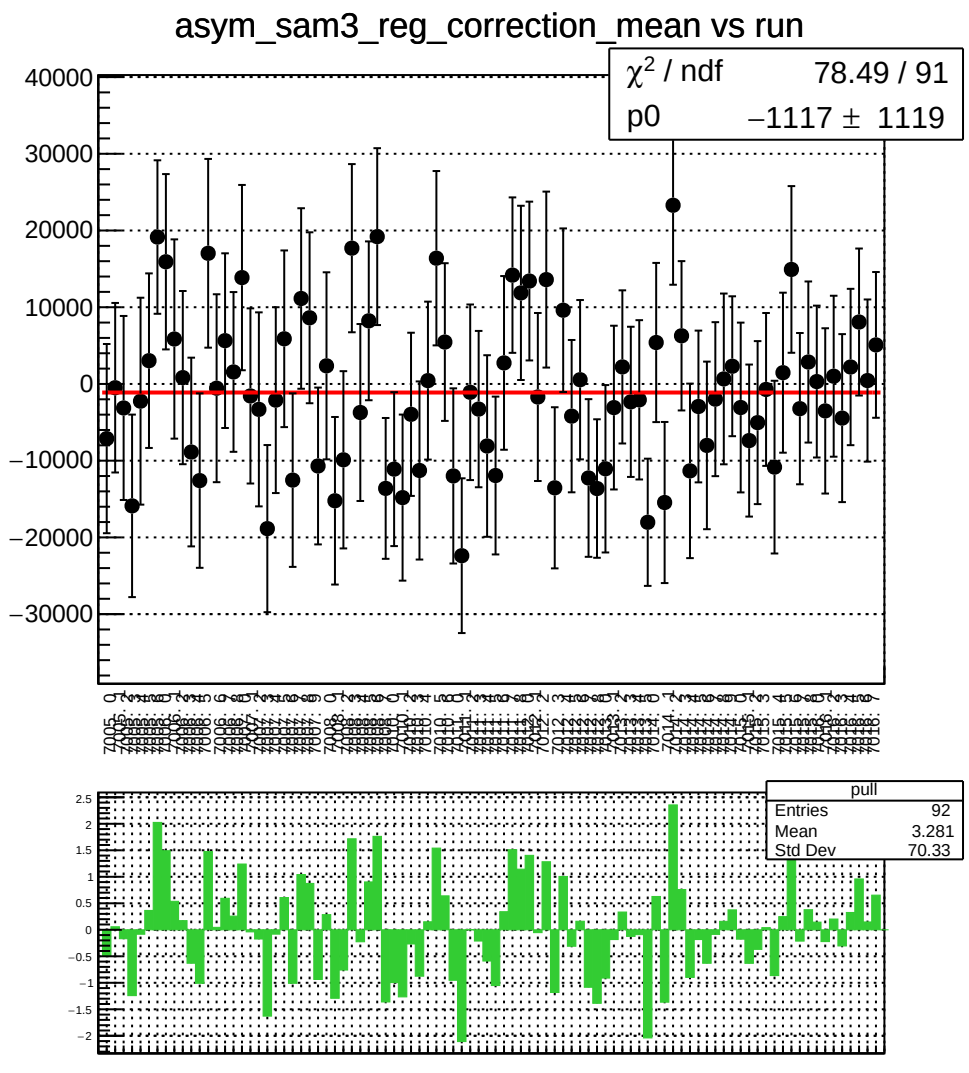

pull1D
Entries 92
Mean −0.04778
Std Dev 0.9482

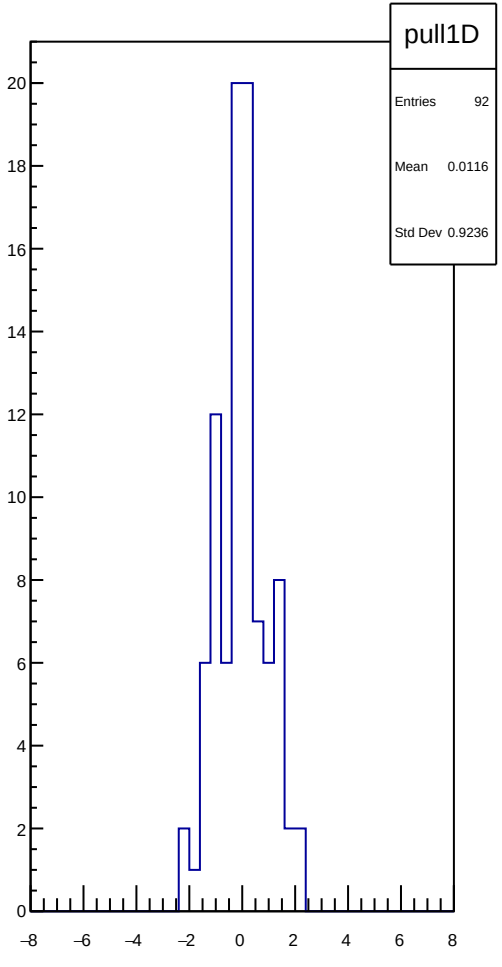

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.858e+05 / 91
p0 3.043e−11 ± 2.863e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

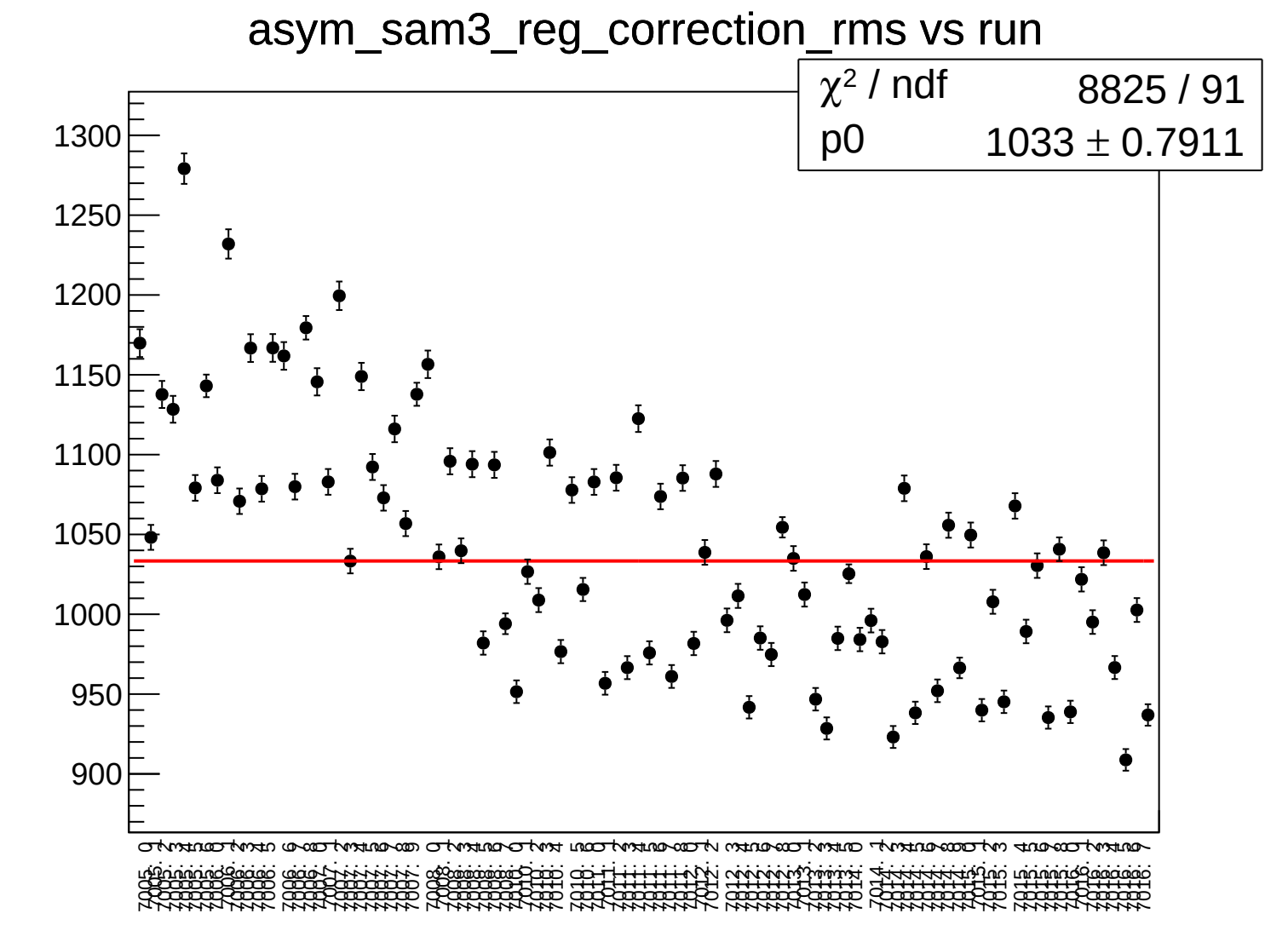

reg_asym_sam3_mean vs run
χ² / ndf 86.31 / 91
p0 −198 ± 103.9
pull
Entries 92
Mean −21.26
Std Dev 20.33

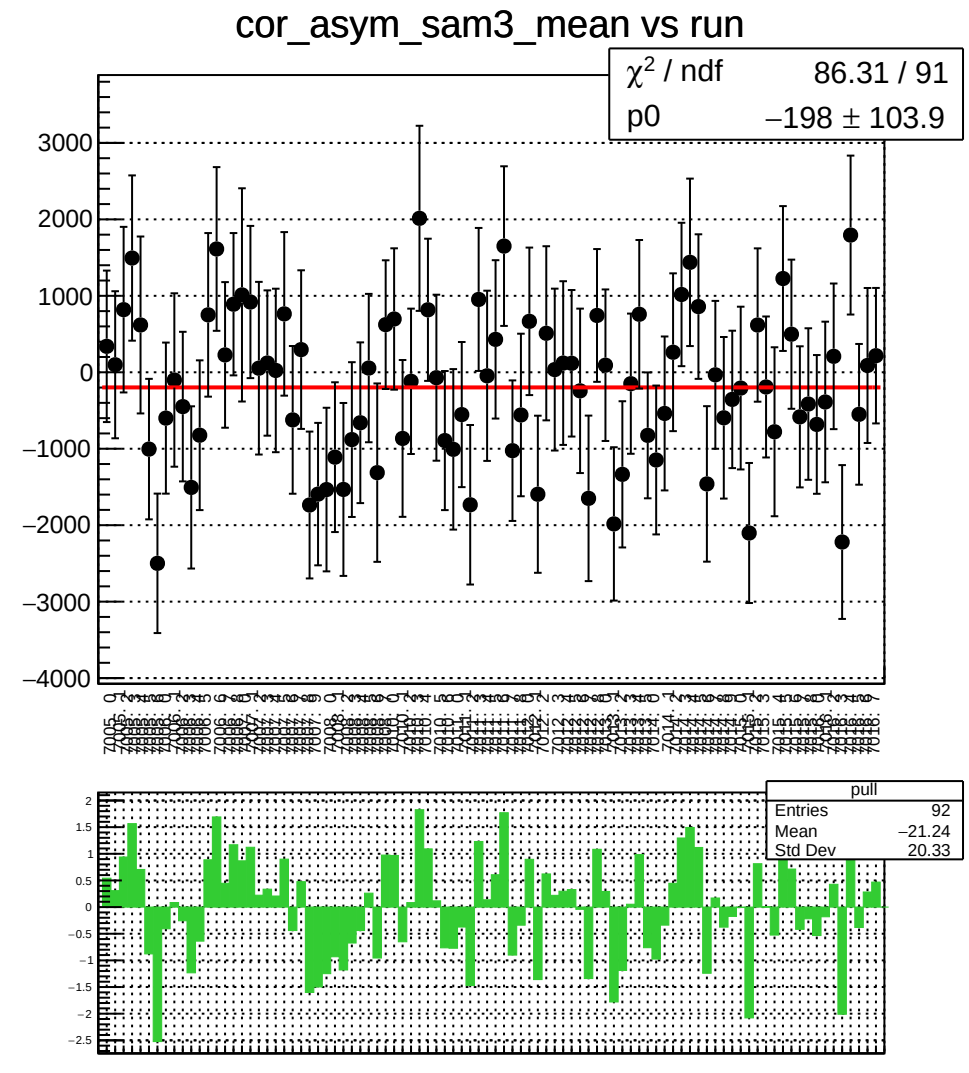

pull1D
Entries 92
Mean 0.009474
Std Dev 0.9685

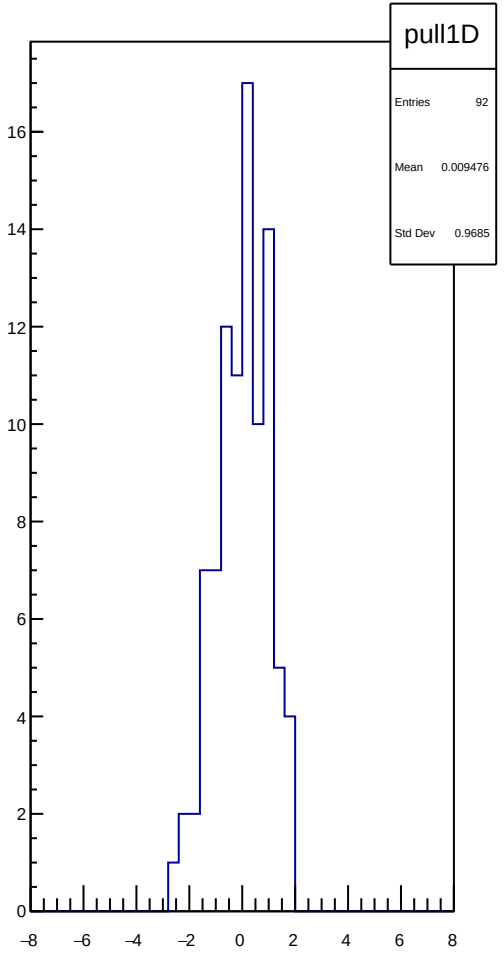

reg_asym_sam3_rms vs run
χ² / ndf 8884 / 91
p0 96 ± 0.07349
130
120
110
100
90

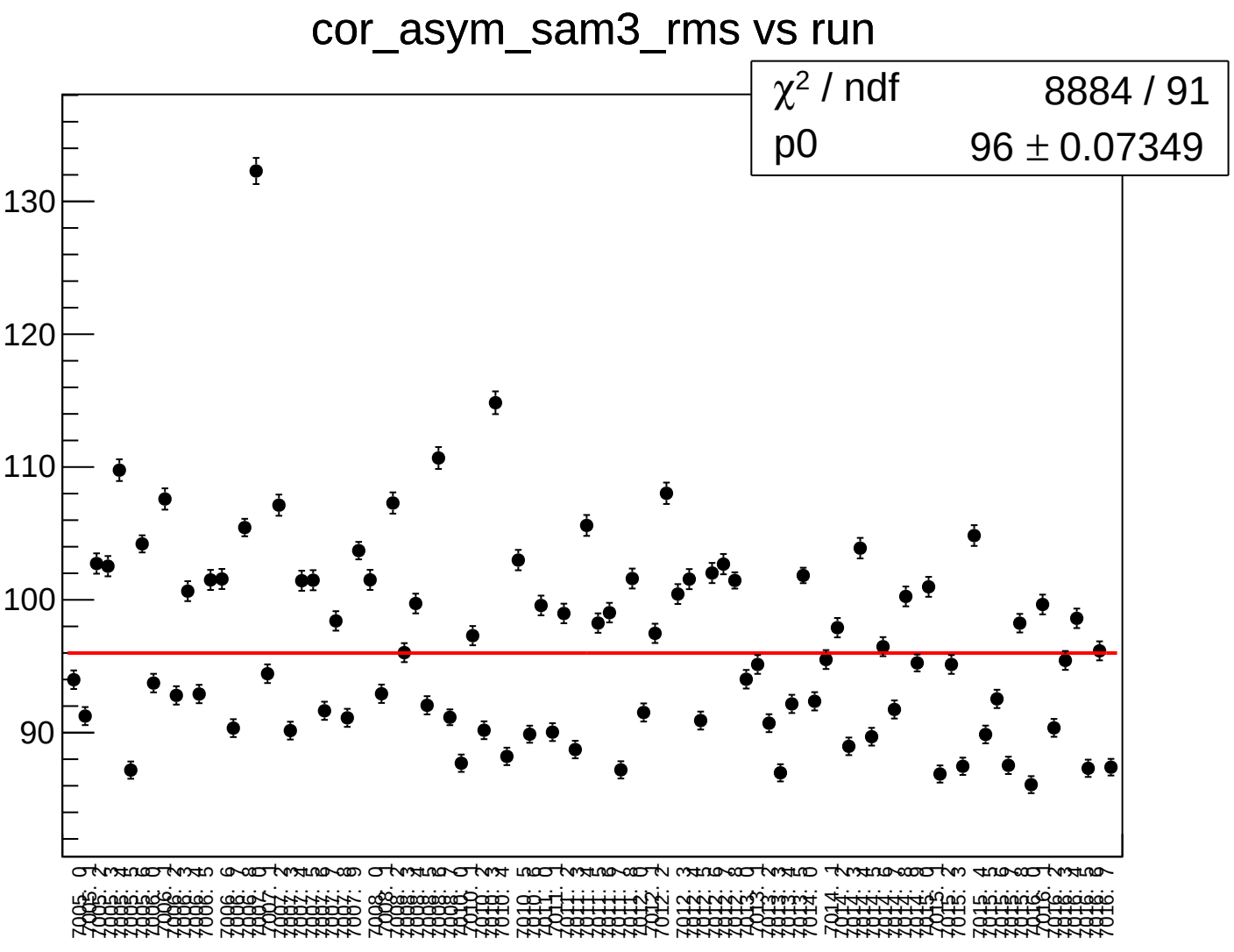

asym_sam3_reg_correction_mean vs run
χ² / ndf 78.49 / 91
p0 −1117 ± 1119
pull
Entries 92
Mean 3.281
Std Dev 70.33

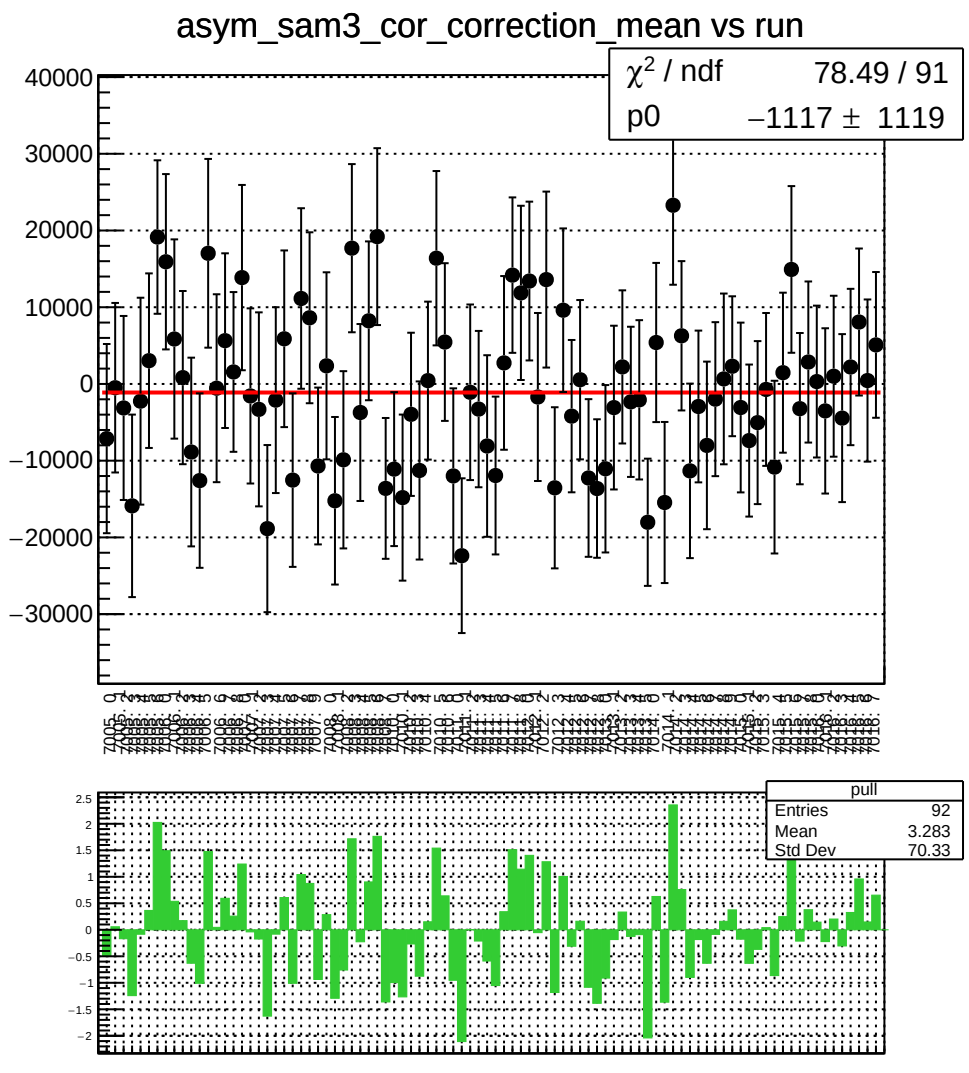

pull1D
Entries 92
Mean 0.0116
Std Dev 0.9236

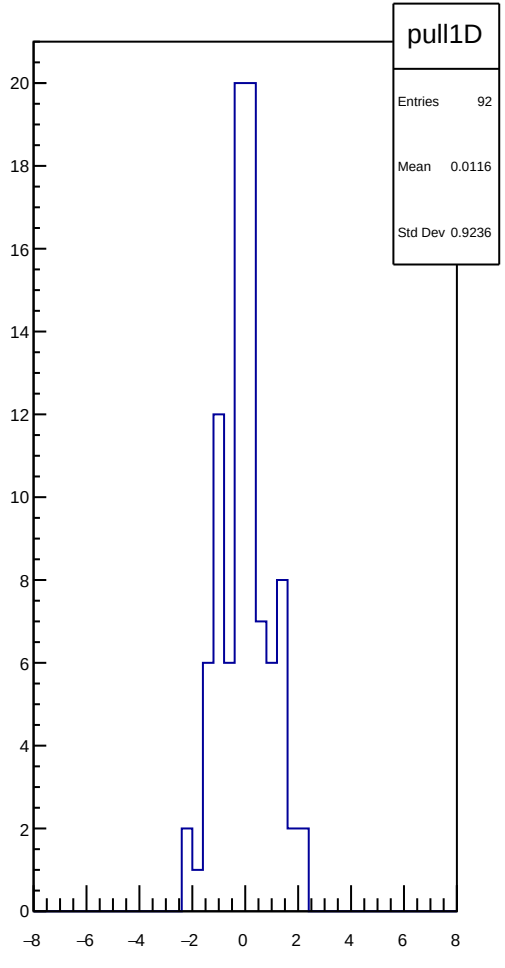

asym_sam3_reg_correction_rms vs run
χ² / ndf 8825 / 91
p0 1033 ± 0.7911
1300
1250
1200
1150
1100
1050
1000
950
900

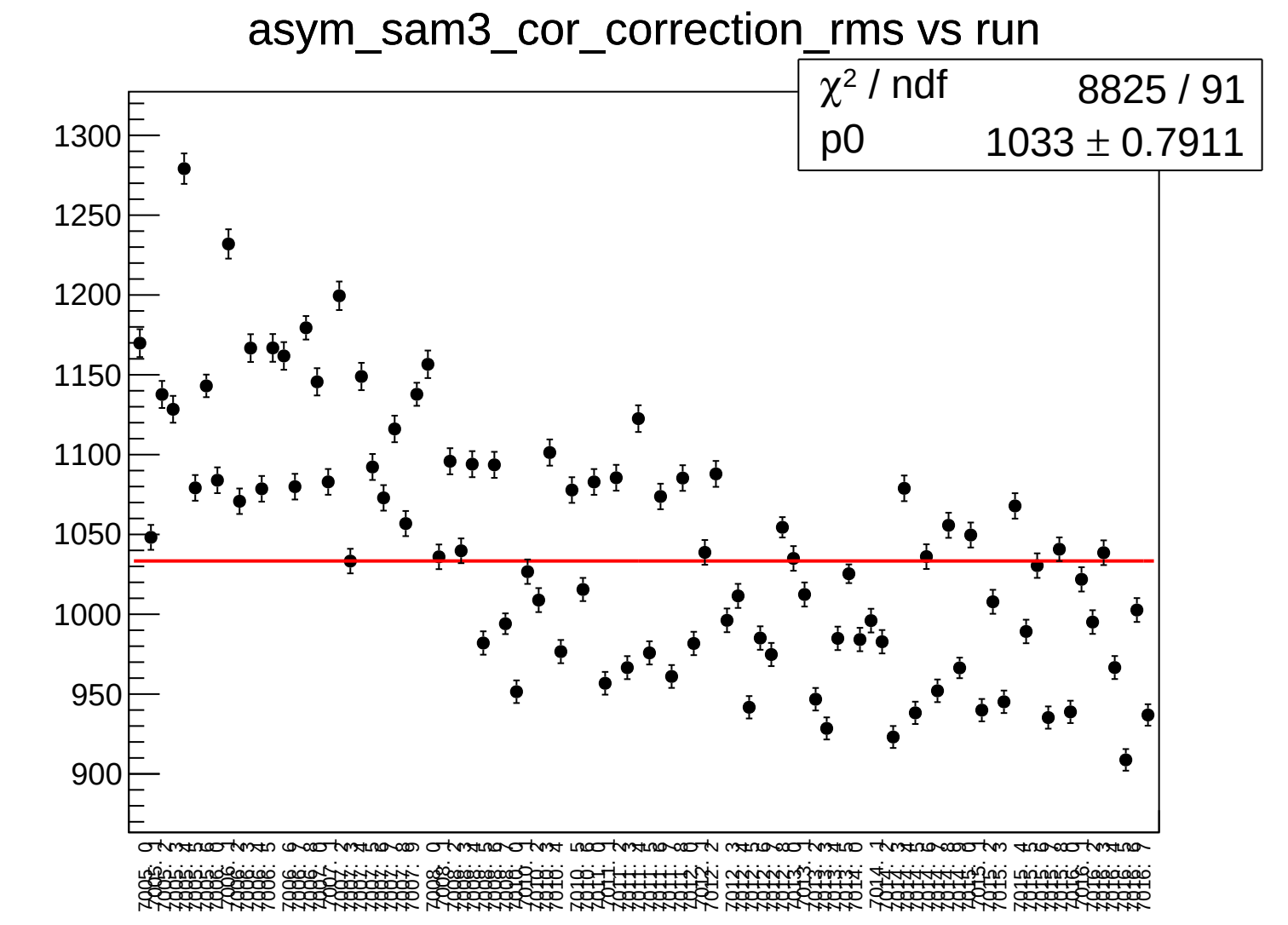

cor_asym_sam3_mean vs run
χ² / ndf 86.31 / 91
p0 −198 ± 103.9
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −21.24
Std Dev 20.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

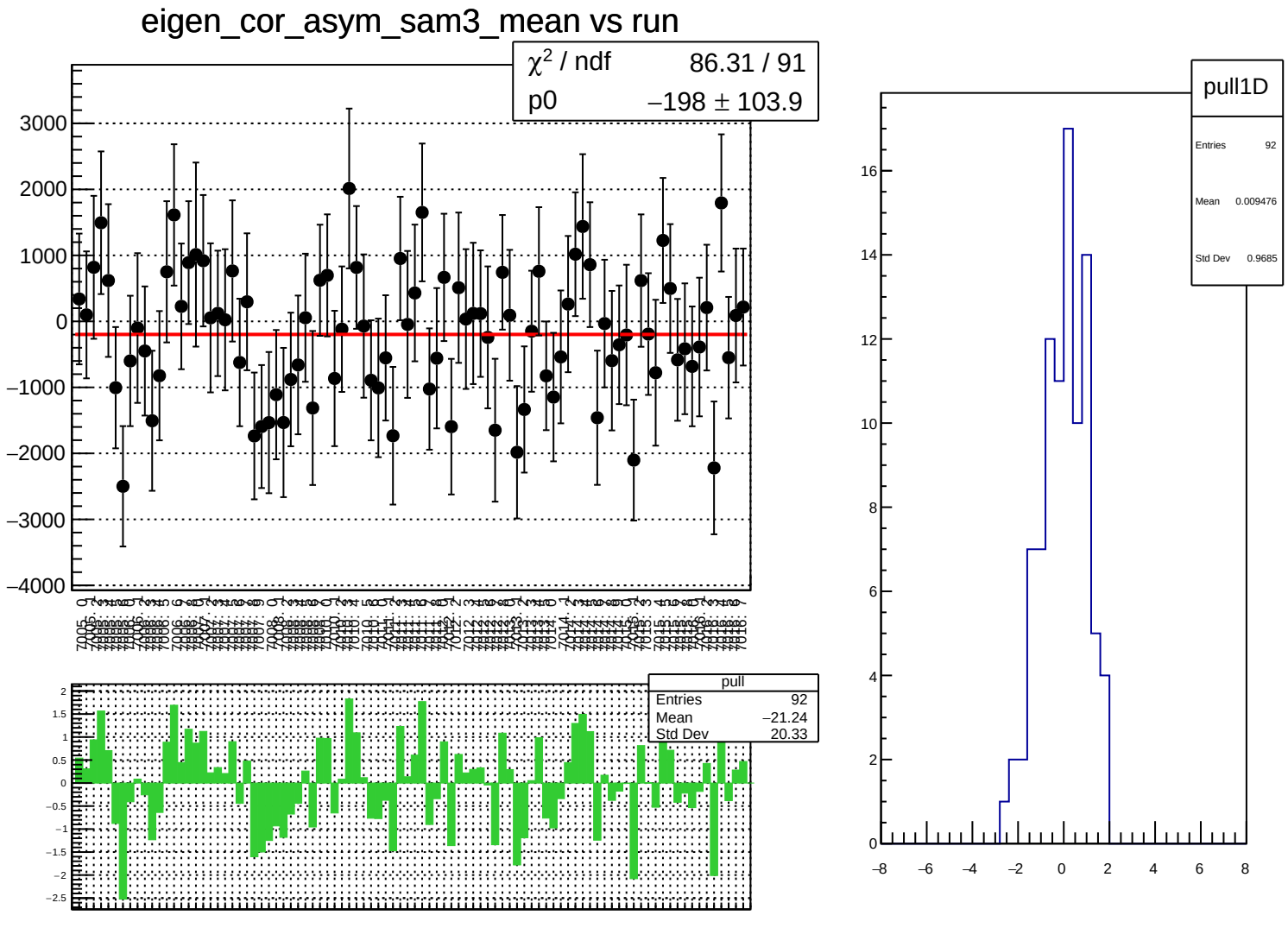

pull1D
Entries 92
Mean 0.009476
Std Dev 0.9685
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

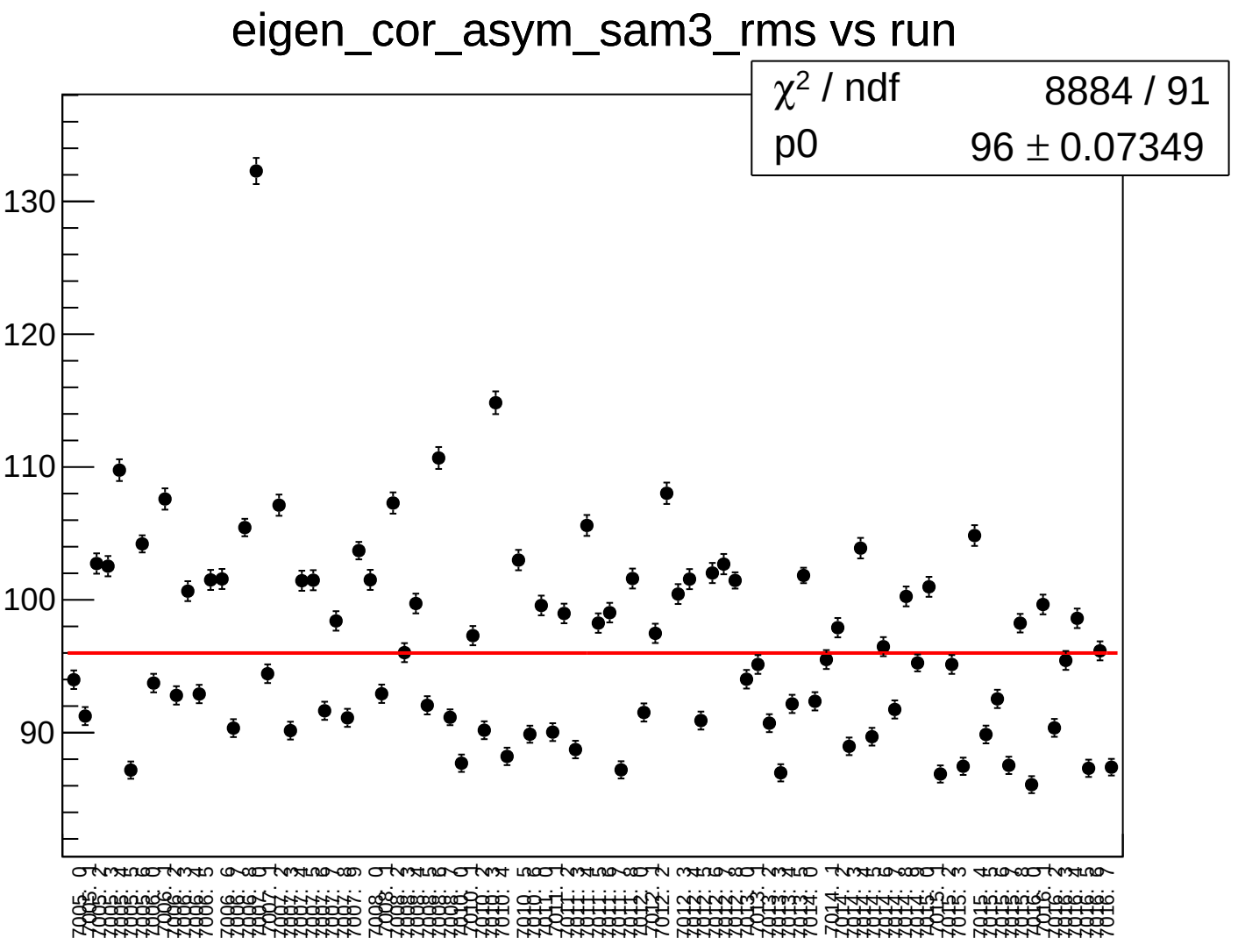

cor_asym_sam3_rms vs run
χ² / ndf 8884 / 91
p0 96 ± 0.07349
130
120
110
100
90

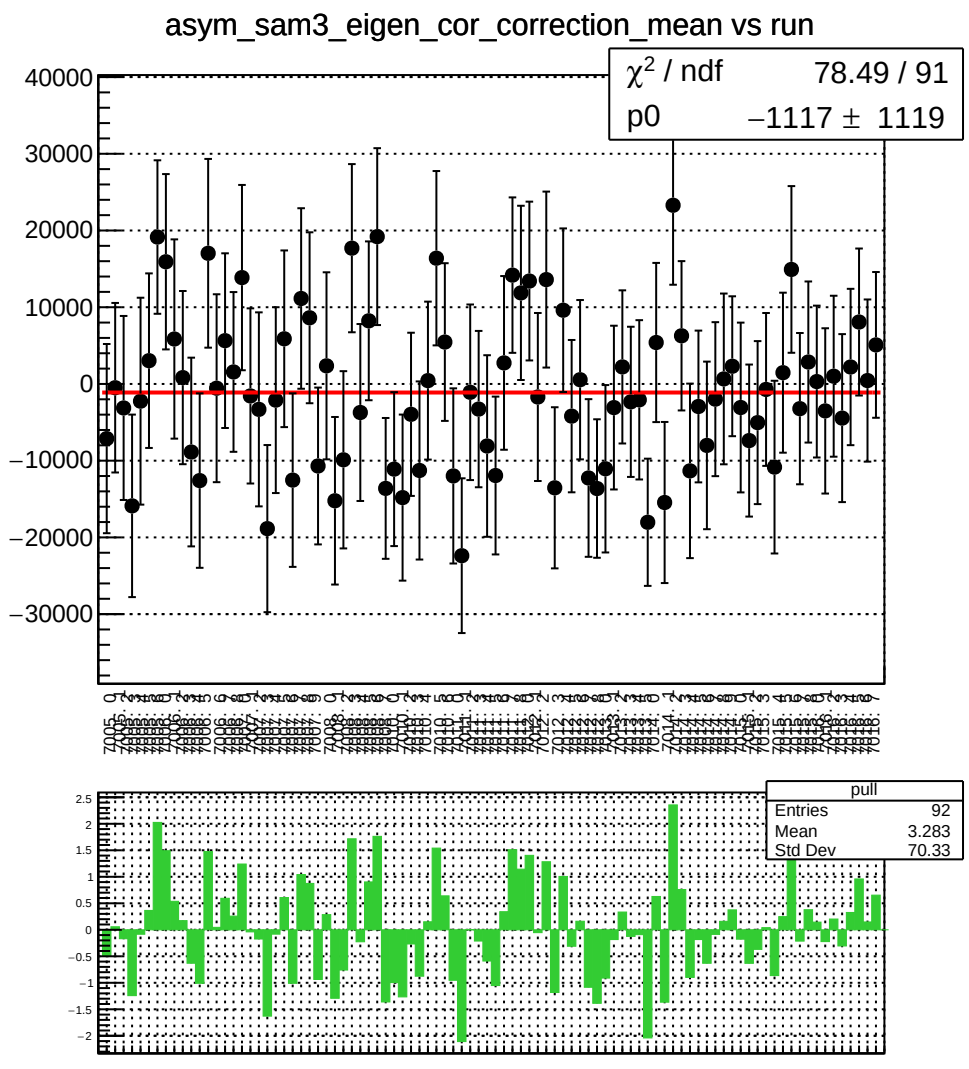

asym_sam3_cor_correction_mean vs run
χ² / ndf 78.49 / 91
p0 −1117 ± 1119
pull
Entries 92
Mean 3.283
Std Dev 70.33

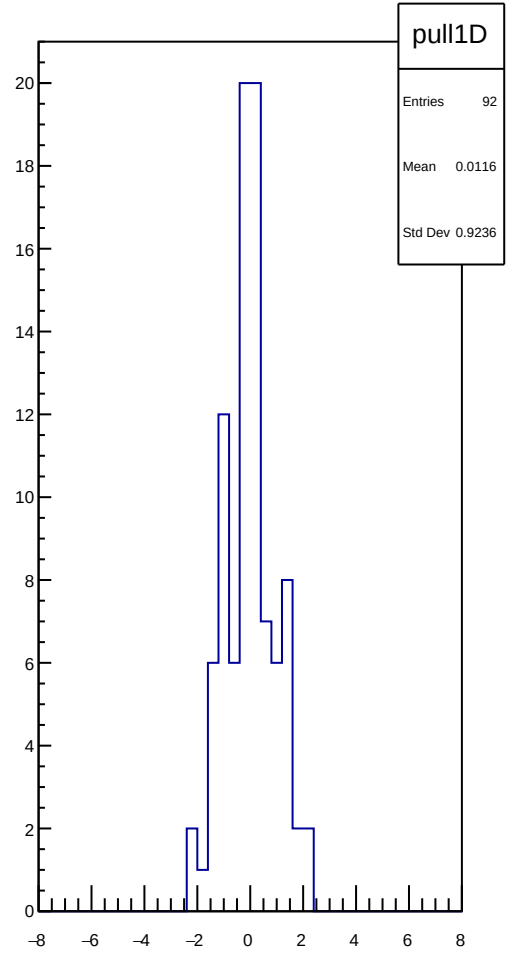

pull1D
Entries 92
Mean 0.0116
Std Dev 0.9236

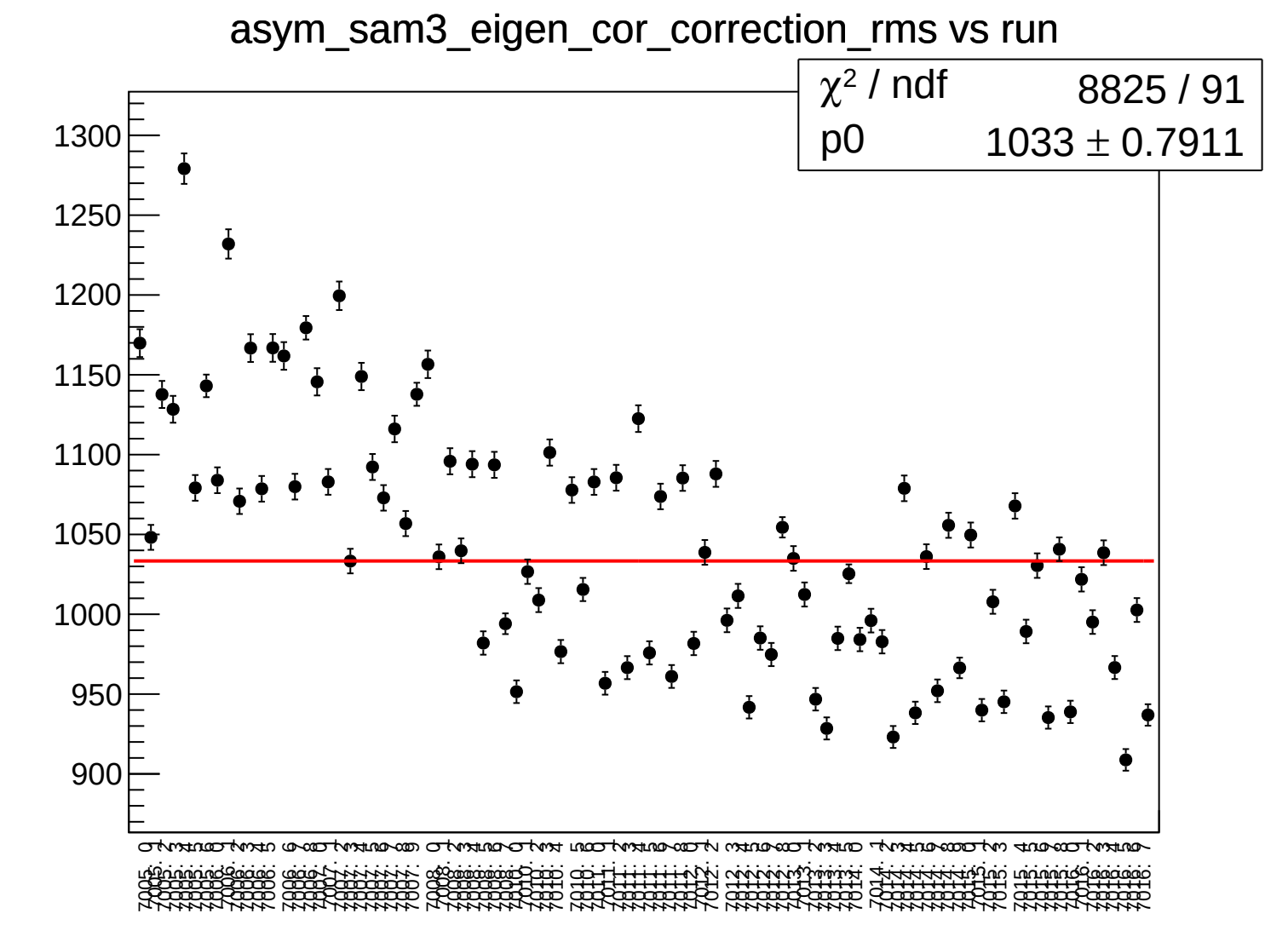

asym_sam3_cor_correction_rms vs run
χ² / ndf 8825 / 91
p0 1033 ± 0.7911
1300
1250
1200
1150
1100
1050
1000
950
900

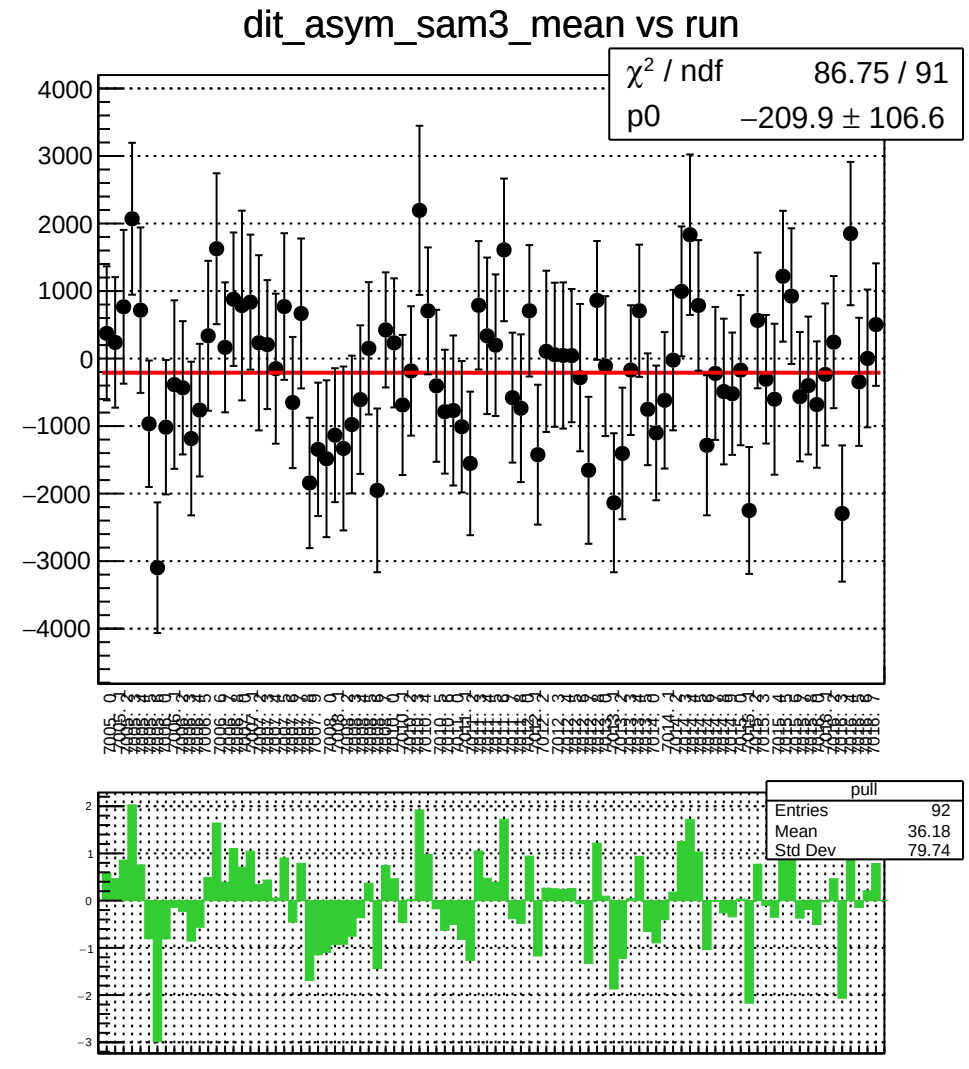

eigen_cor_asym_sam3_mean vs run
χ² / ndf 86.31 / 91
p0 −198 ± 103.9
pull
Entries 92
Mean −21.24
Std Dev 20.33
pull1D
Entries 92
Mean 0.009476
Std Dev 0.9685

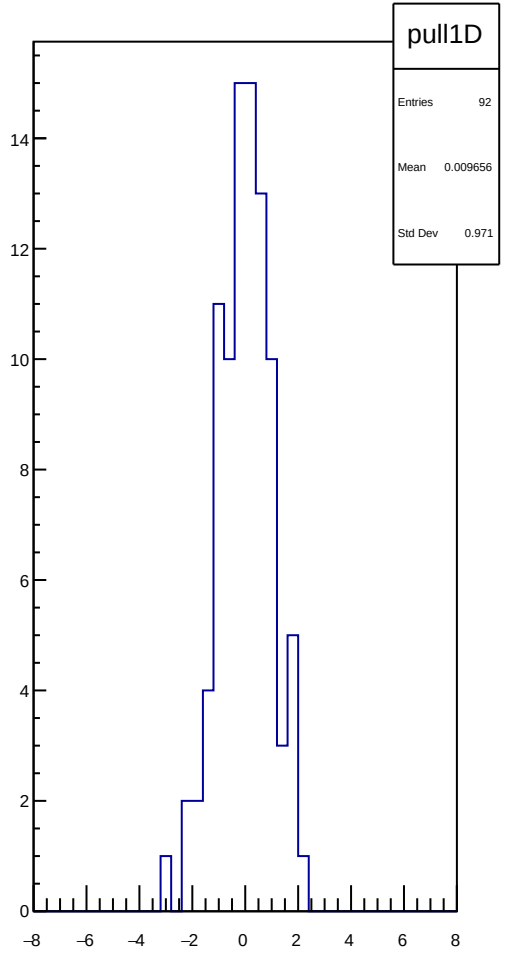

eigen_cor_asym_sam3_rms vs run
χ² / ndf 8884 / 91
p0 96 ± 0.07349
130
120
110
100
90

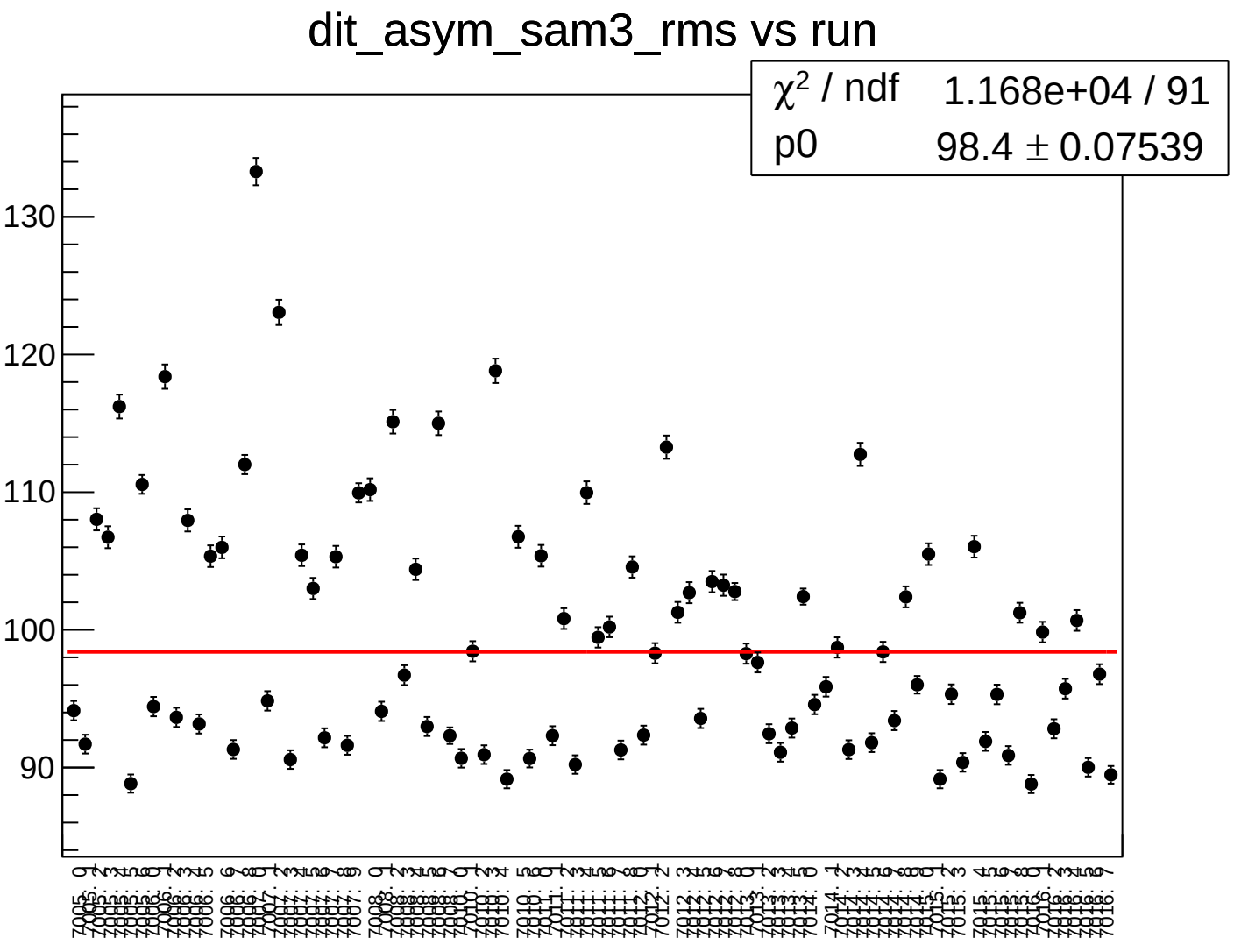

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 78.49 / 91
p0 −1117 ± 1119
pull
Entries 92
Mean 3.283
Std Dev 70.33

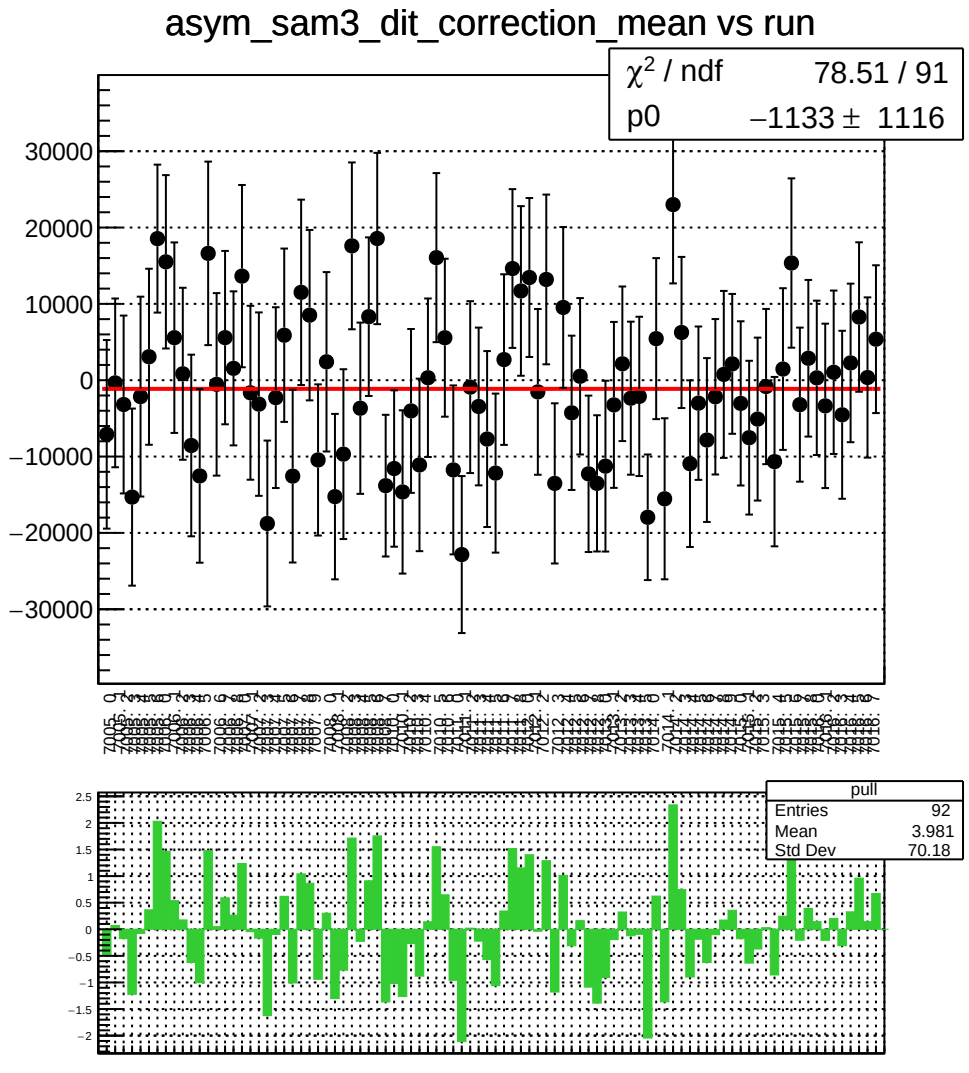

pull1D
Entries 92
Mean 0.0116
Std Dev 0.9236

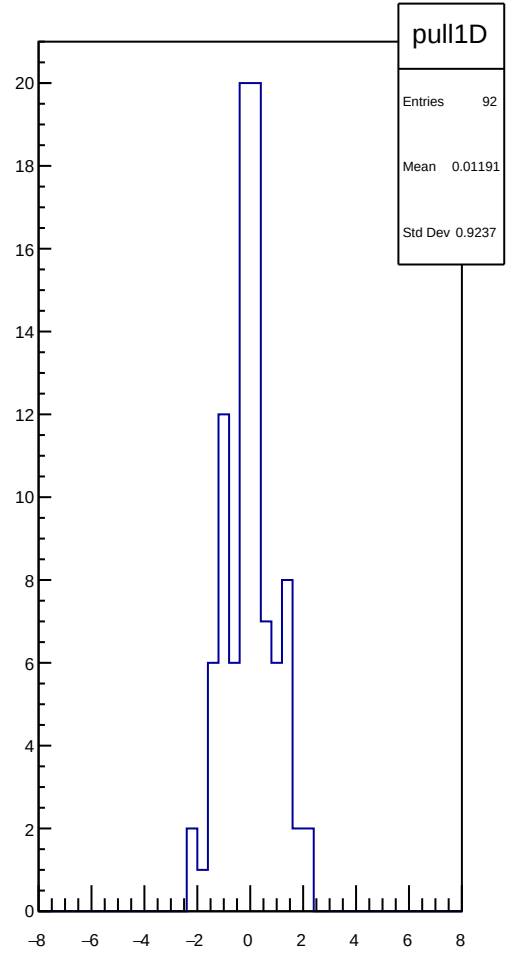

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 8825 / 91
p0 1033 ± 0.7911
1300
1250
1200
1150
1100
1050
1000
950
900

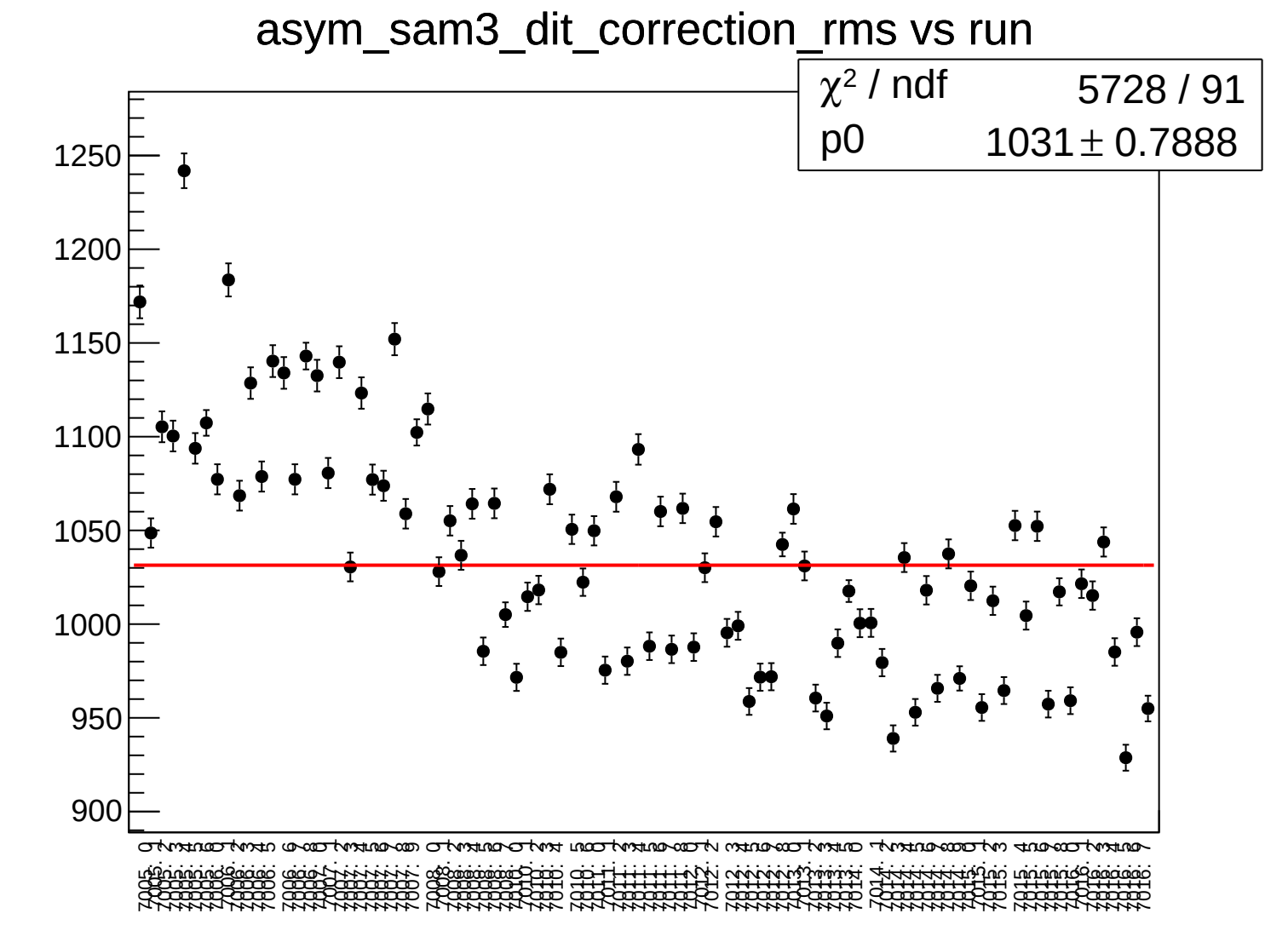

dit_asym_sam3_mean vs run
χ² / ndf 86.75 / 91
p0 −209.9 ± 106.6
pull
Entries 92
Mean 36.18
Std Dev 79.74

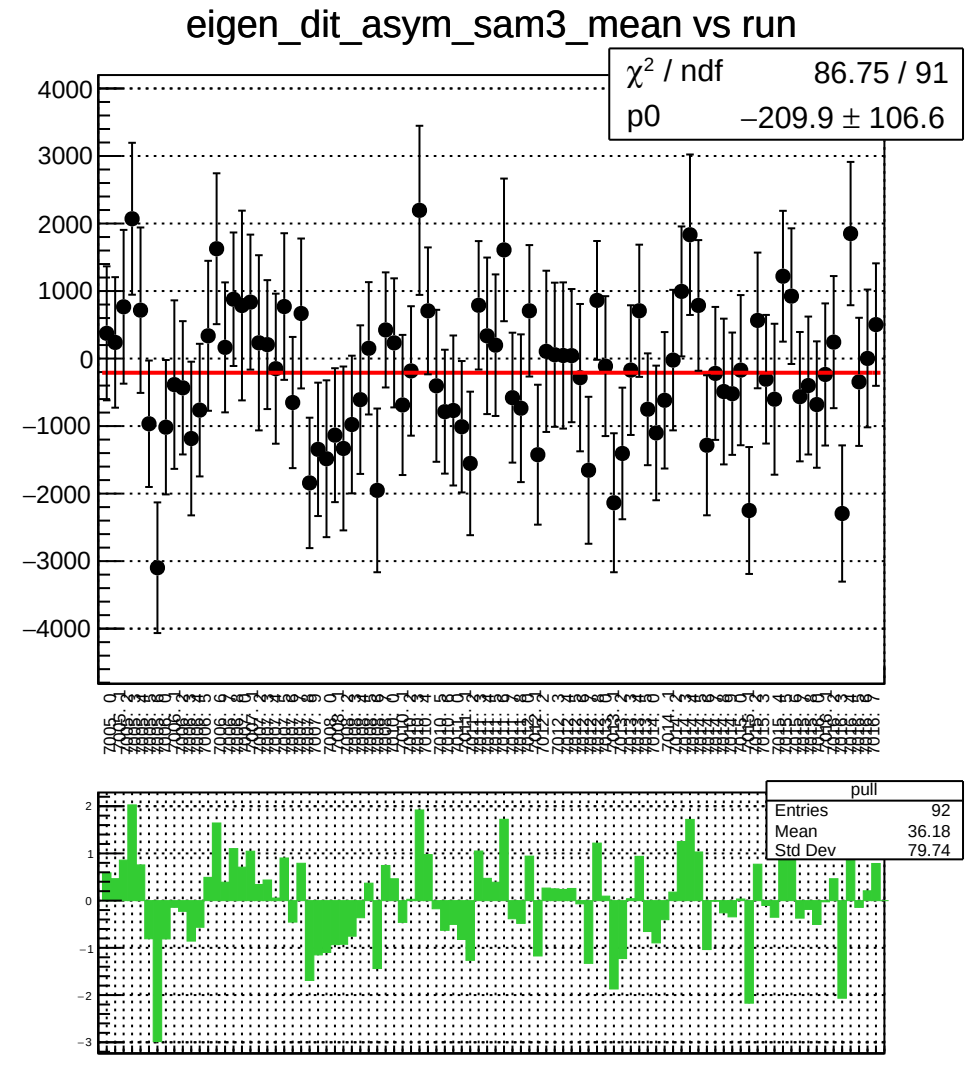

pull1D
Entries 92
Mean 0.009656
Std Dev 0.971

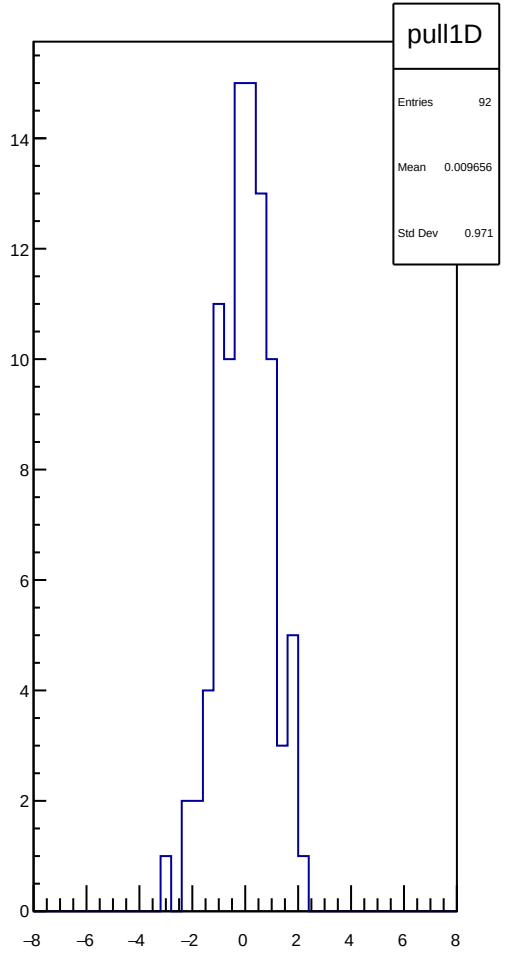

dit_asym_sam3_rms vs run
χ² / ndf 1.168e+04 / 91
p0 98.4 ± 0.07539
130
120
110
100
90

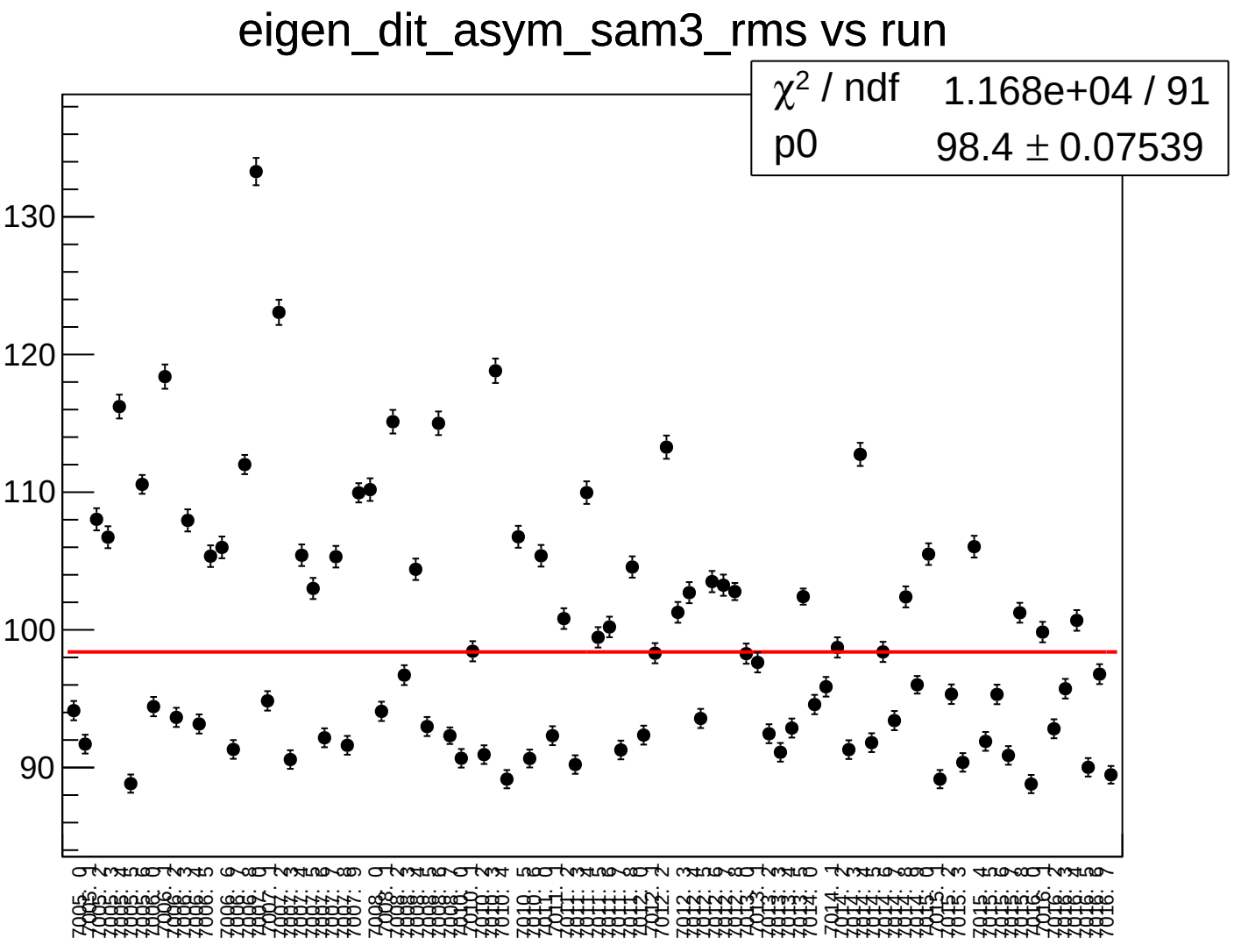

asym_sam3_dit_correction_mean vs run
χ² / ndf 78.51 / 91
p0 −1133 ± 1116
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 3.981
Std Dev 70.18
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

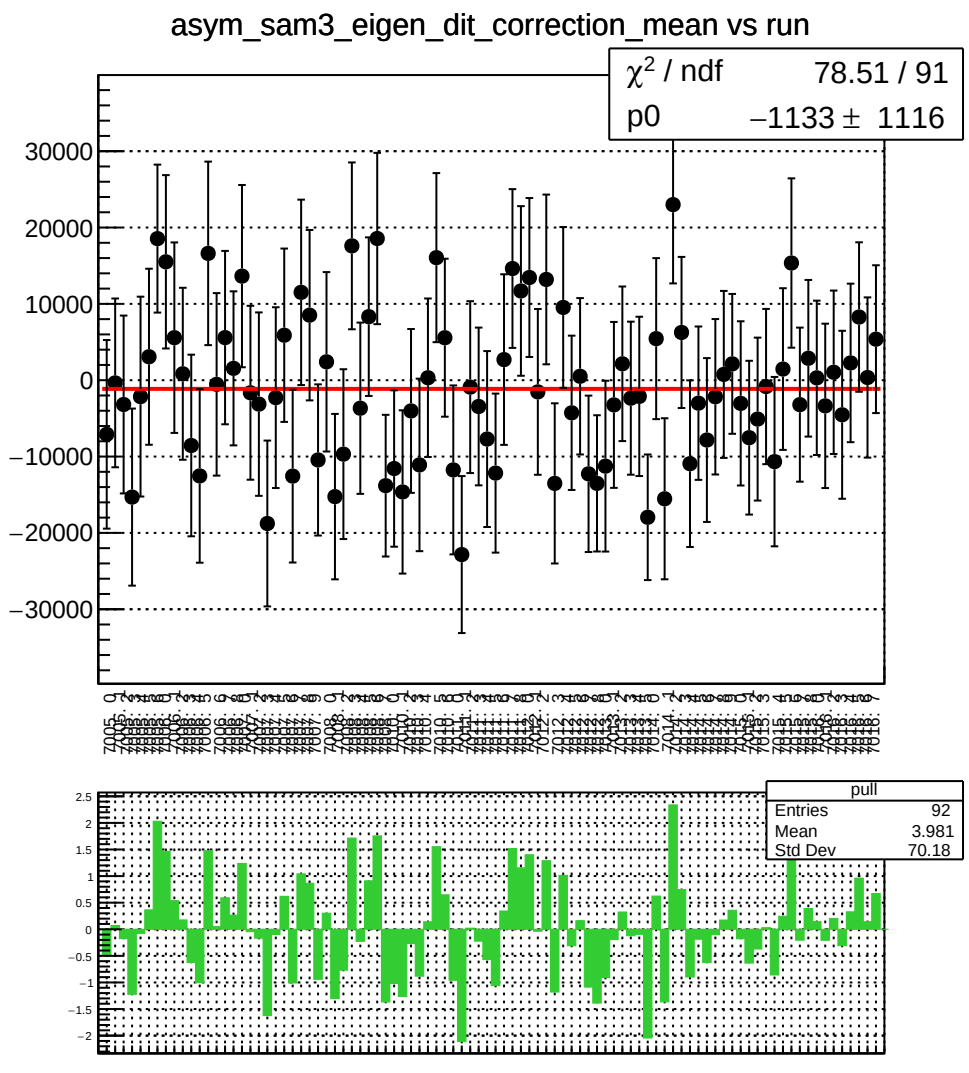

pull1D
Entries 92
Mean 0.01191
Std Dev 0.9237
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

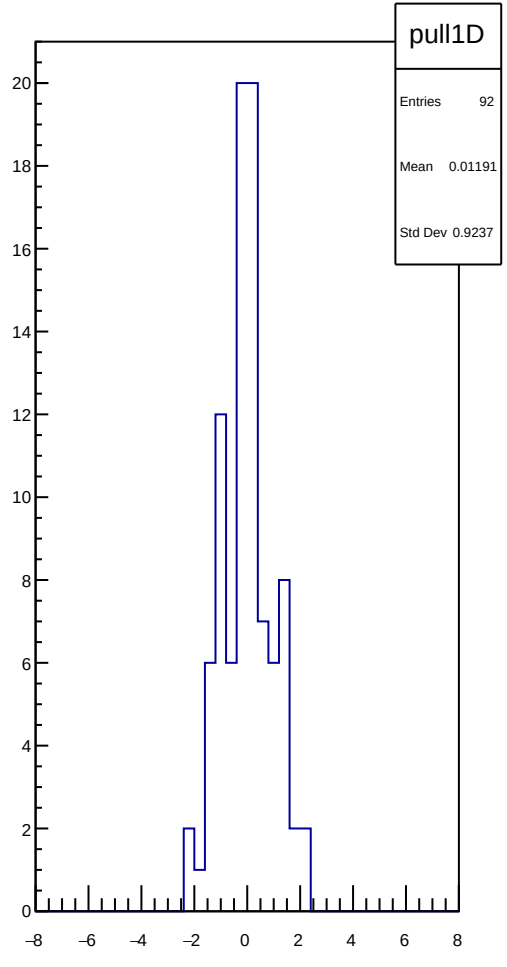

asym_sam3_dit_correction_rms vs run
χ² / ndf 5728 / 91
p0 1031 ± 0.7888
1250
1200
1150
1100
1050
1000
950
900

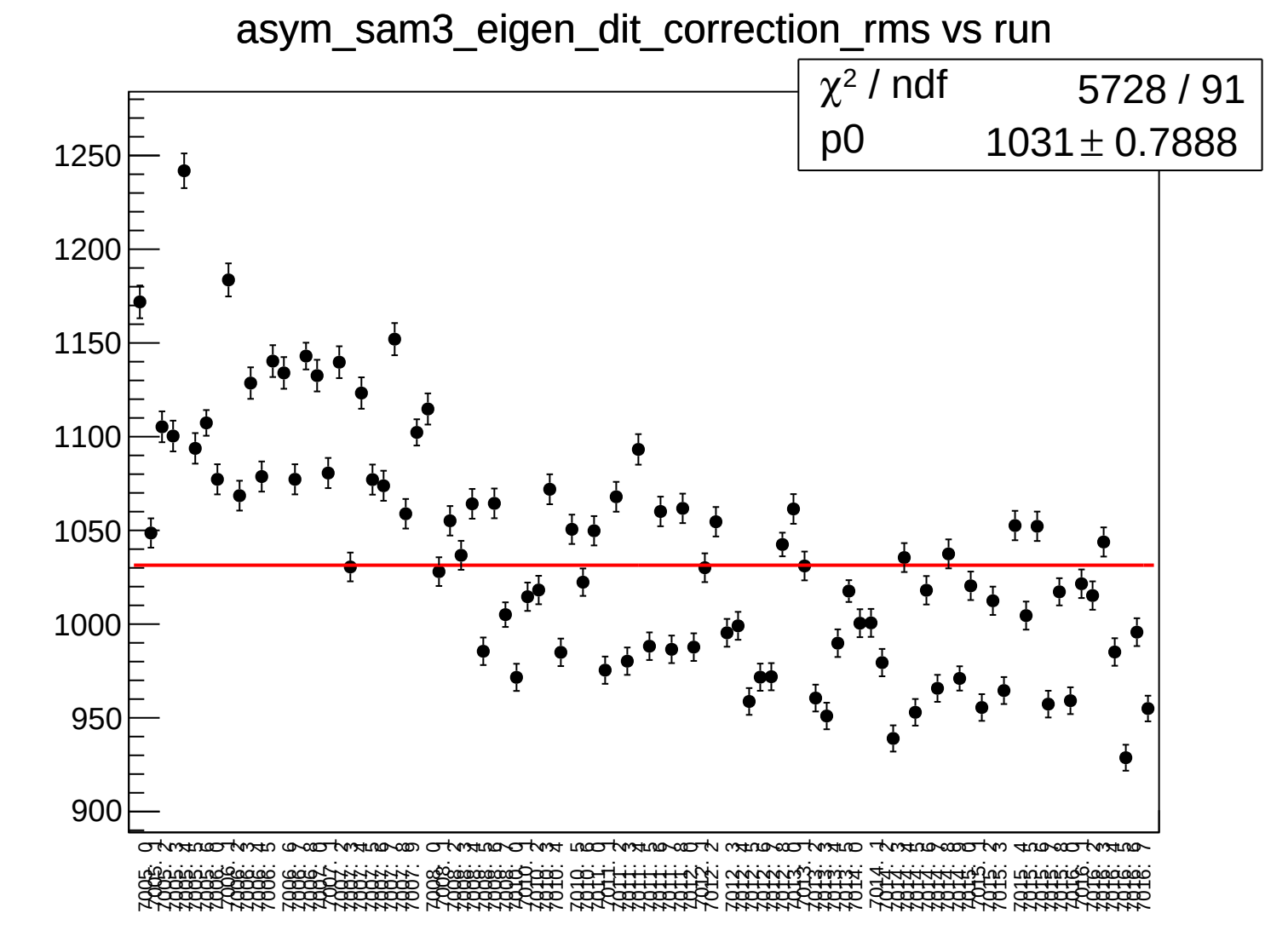

eigen_dit_asym_sam3_mean vs run
χ² / ndf 86.75 / 91
p0 −209.9 ± 106.6
pull
Entries 92
Mean 36.18
Std Dev 79.74

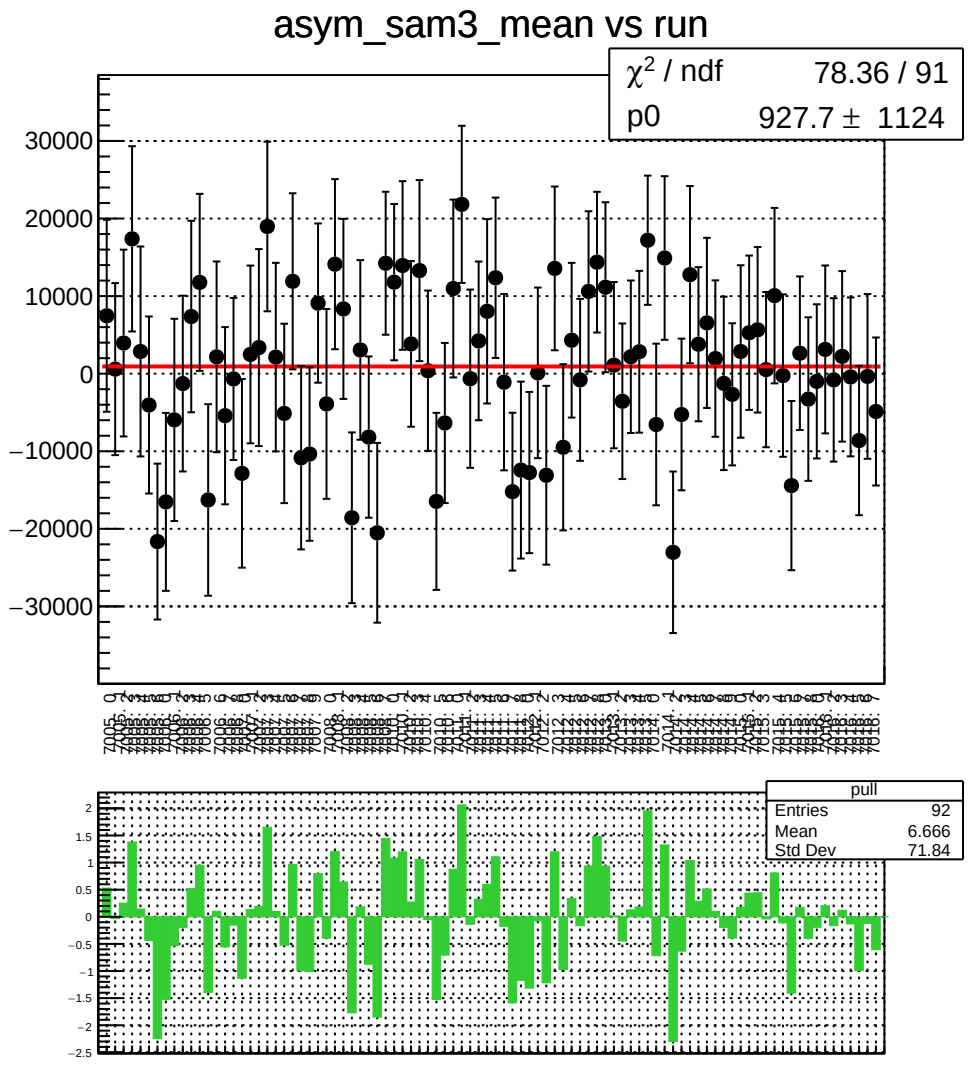

pull1D
Entries 92
Mean 0.009656
Std Dev 0.971

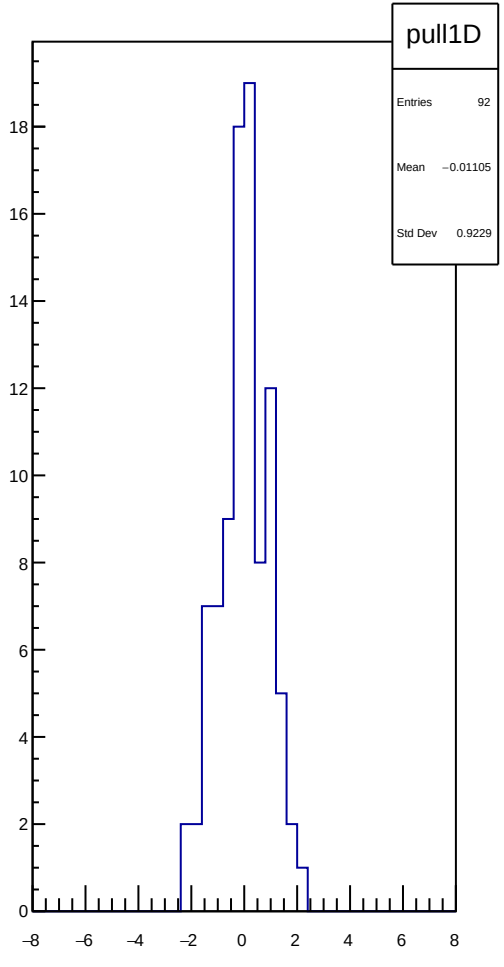

eigen_dit_asym_sam3_rms vs run
χ² / ndf 1.168e+04 / 91
p0 98.4 ± 0.07539
130
120
110
100
90

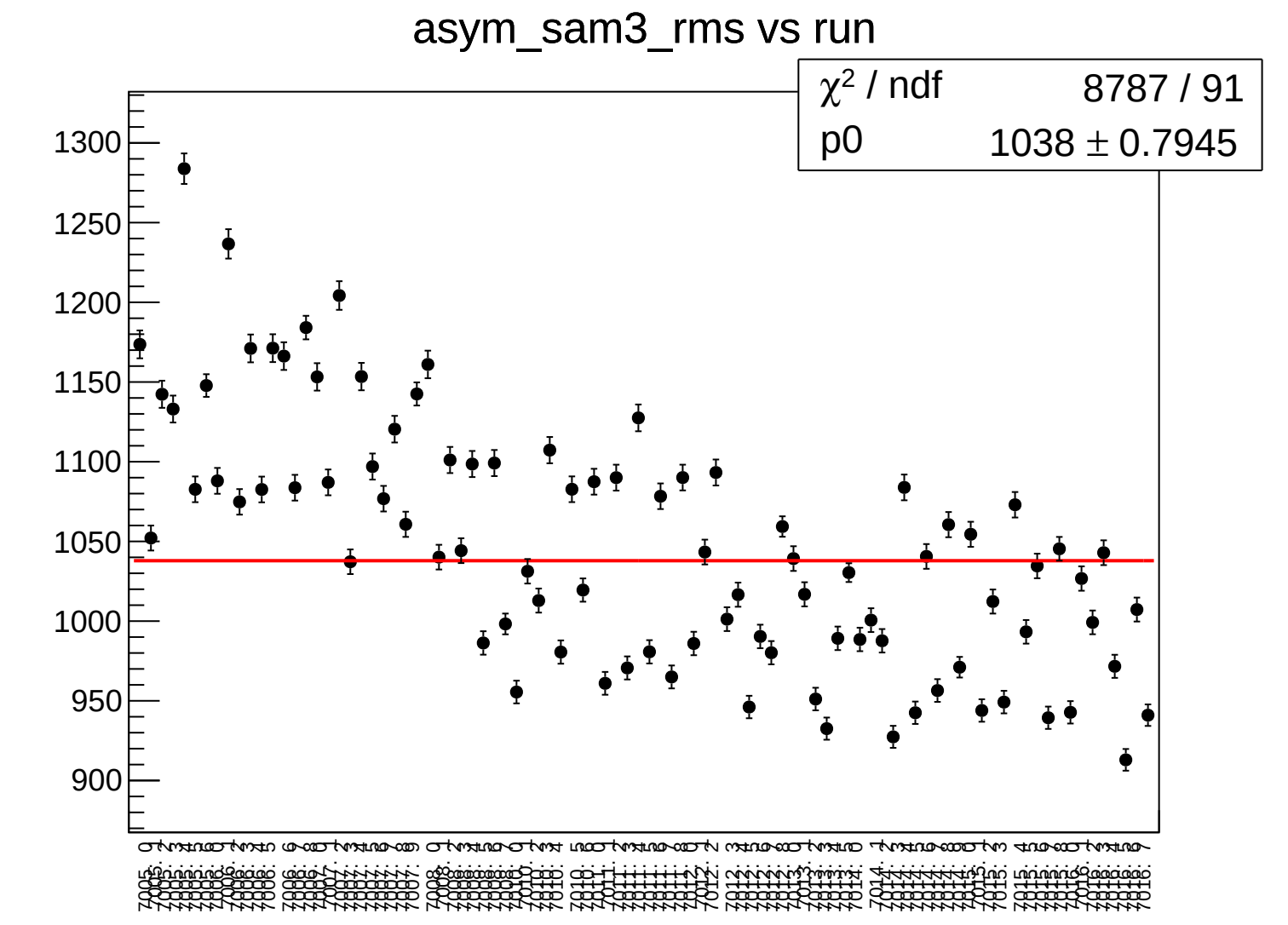

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 78.51 / 91
p0 −1133 ± 1116
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 3.981
Std Dev 70.18
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

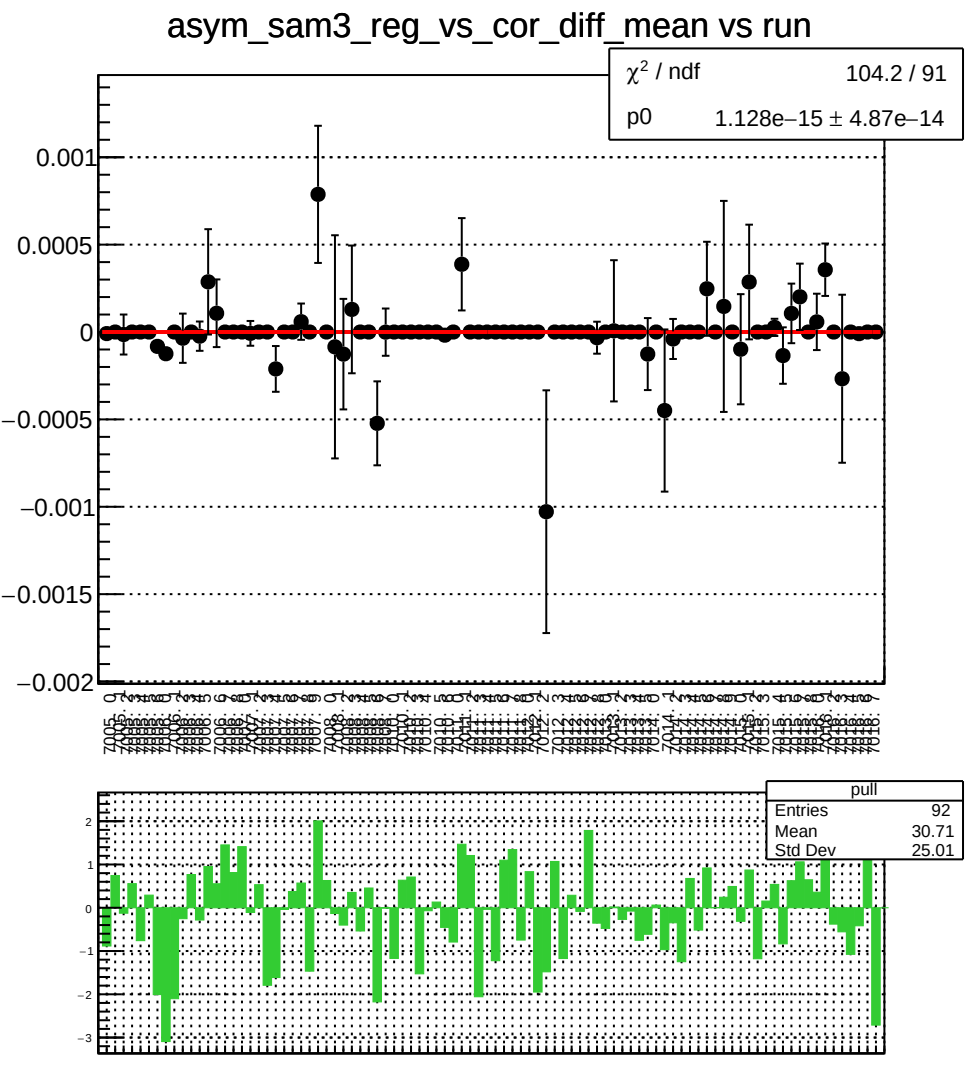

pull1D
Entries 92
Mean 0.01191
Std Dev 0.9237
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

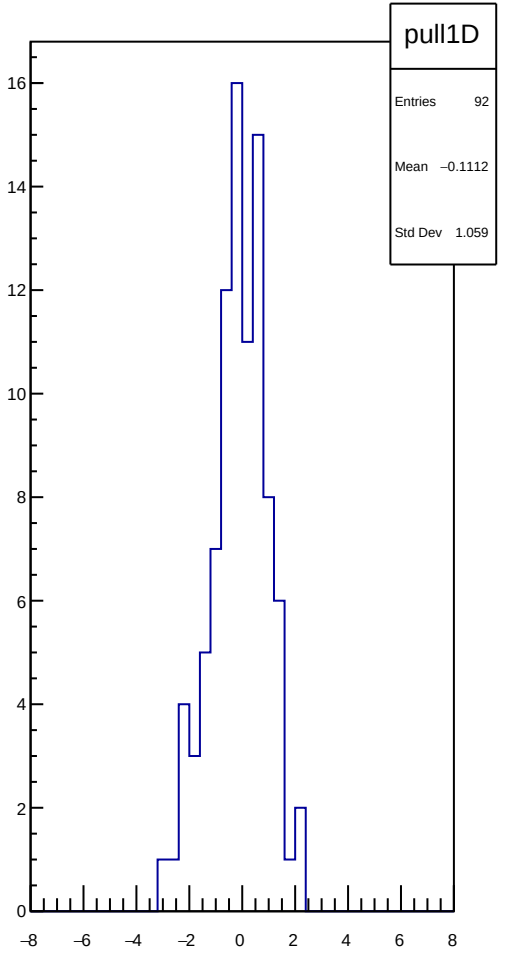

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 5728 / 91
p0 1031 ± 0.7888
1250
1200
1150
1100
1050
1000
950
900

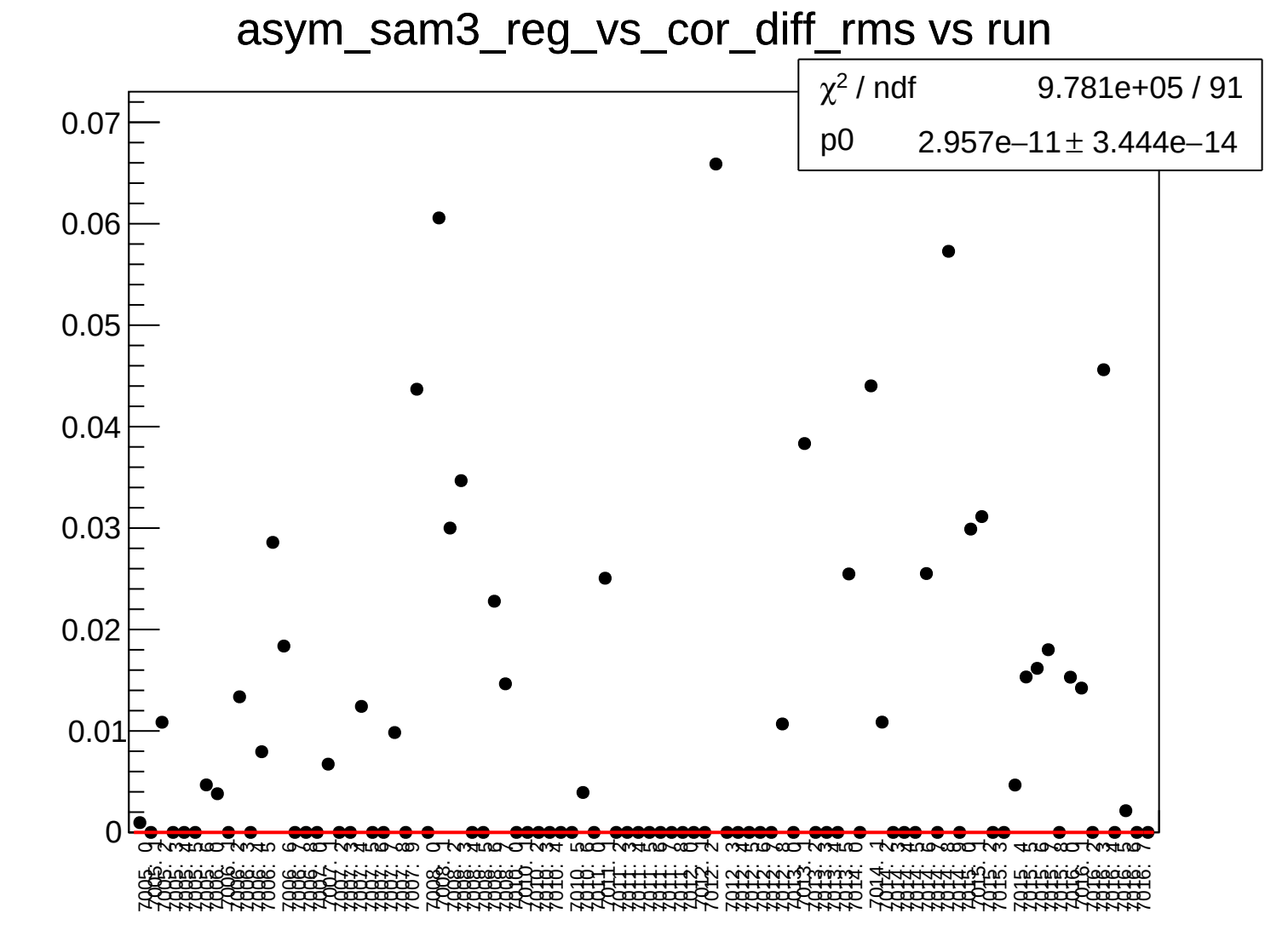

asym_sam3_mean vs run
χ² / ndf 78.36 / 91
p0 927.7 ± 1124
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 6.666
Std Dev 71.84
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

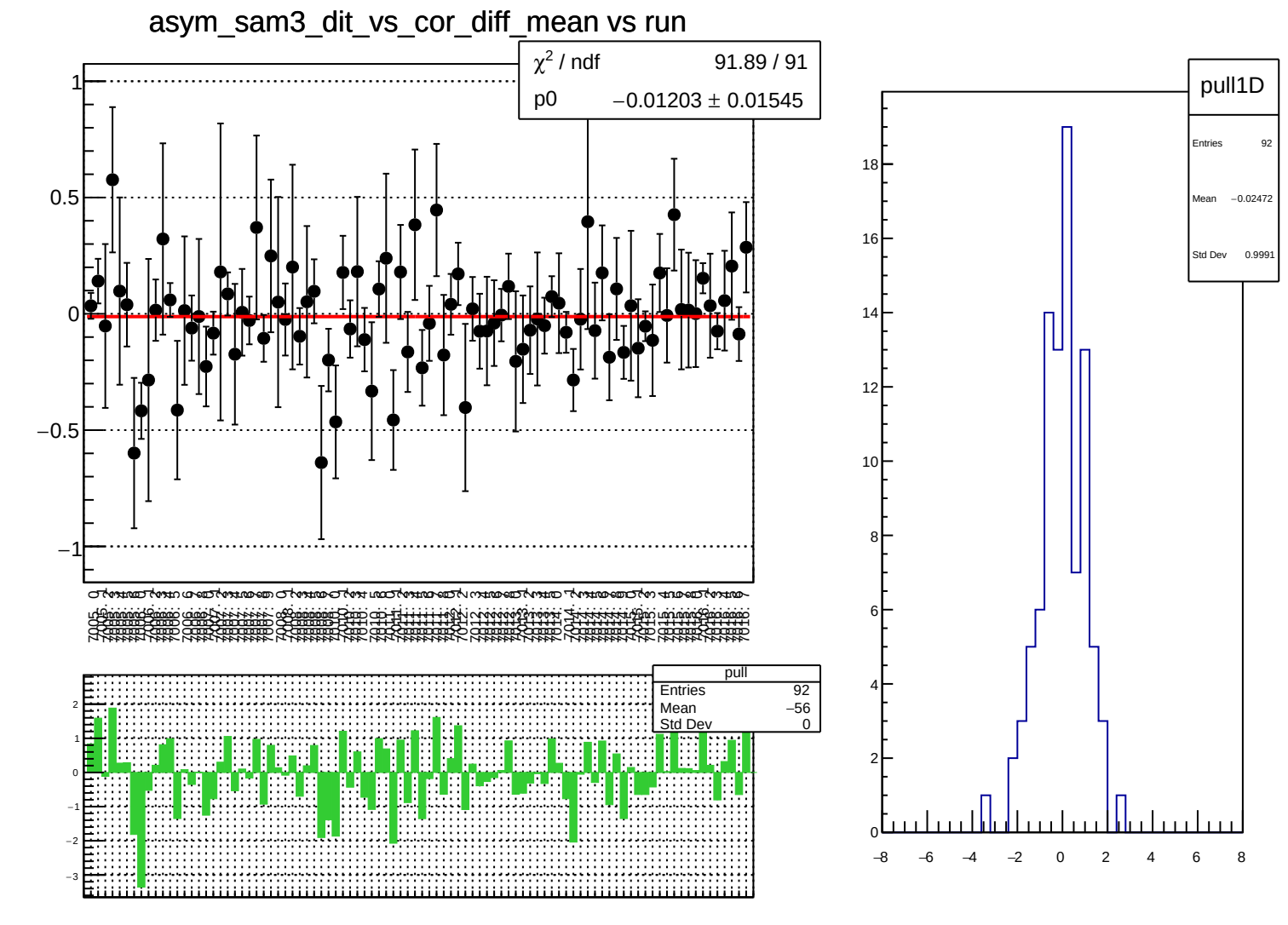

pull1D
Entries 92
Mean −0.01105
Std Dev 0.9229
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

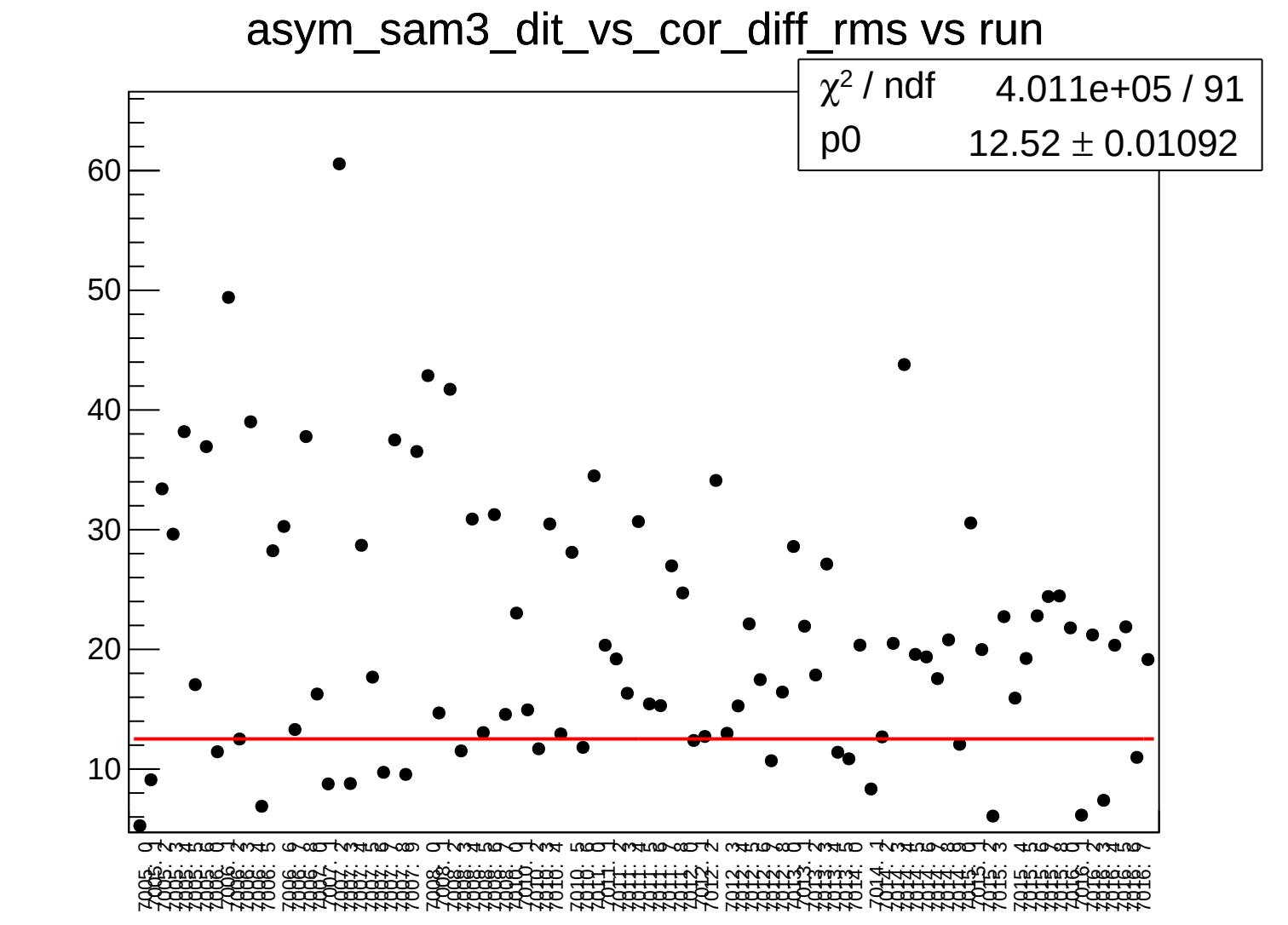

asym_sam3_rms vs run
χ² / ndf 8787 / 91
p0 1038 ± 0.7945
1300
1250
1200
1150
1100
1050
1000
950
900

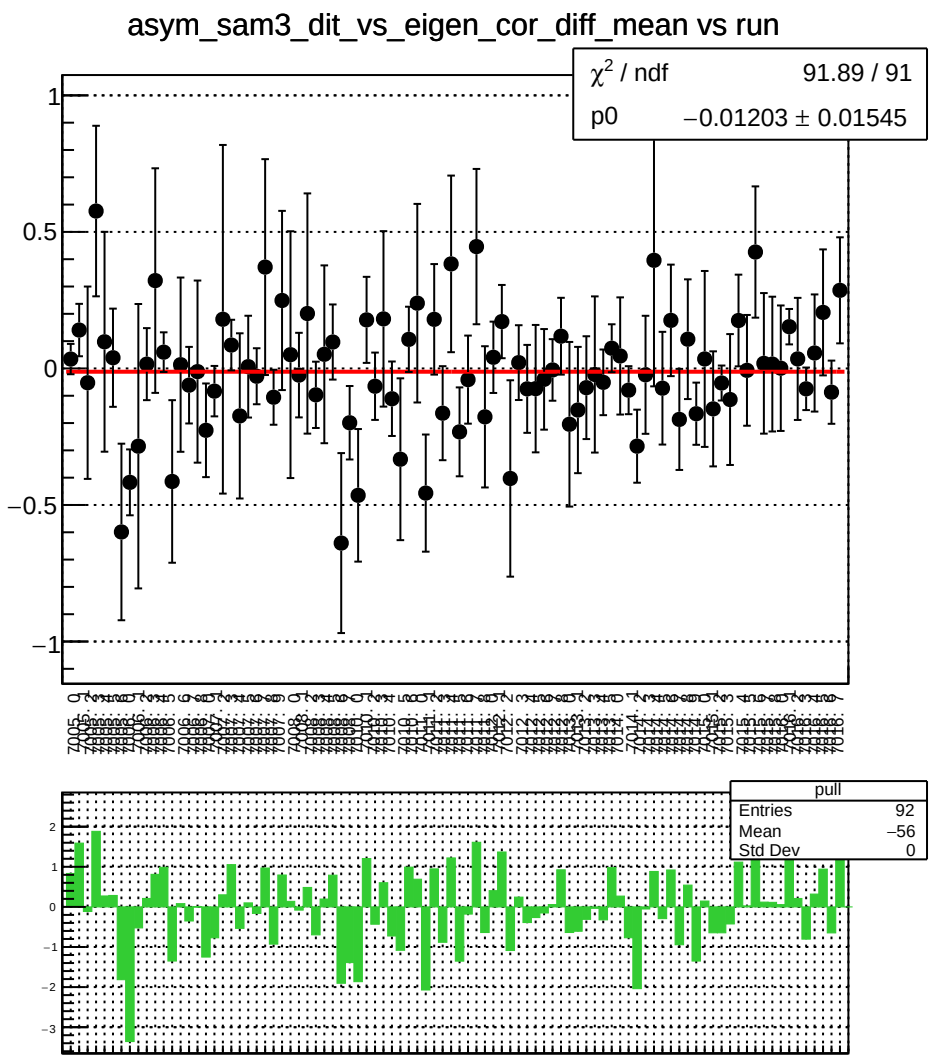

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 91
p0 1.128e−15 ± 4.87e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 92
Mean 30.71
Std Dev 25.01
2
1
0
−1
−2
−3

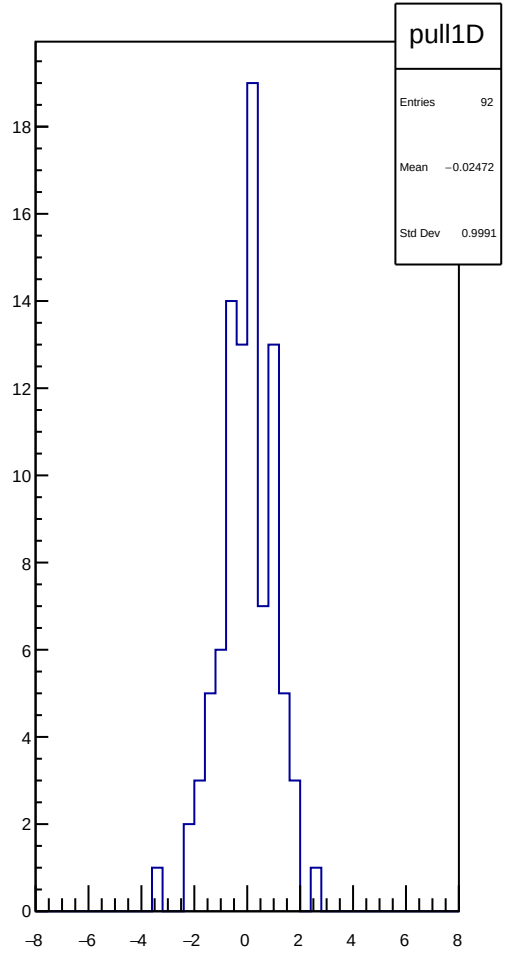

pull1D
Entries 92
Mean −0.1112
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

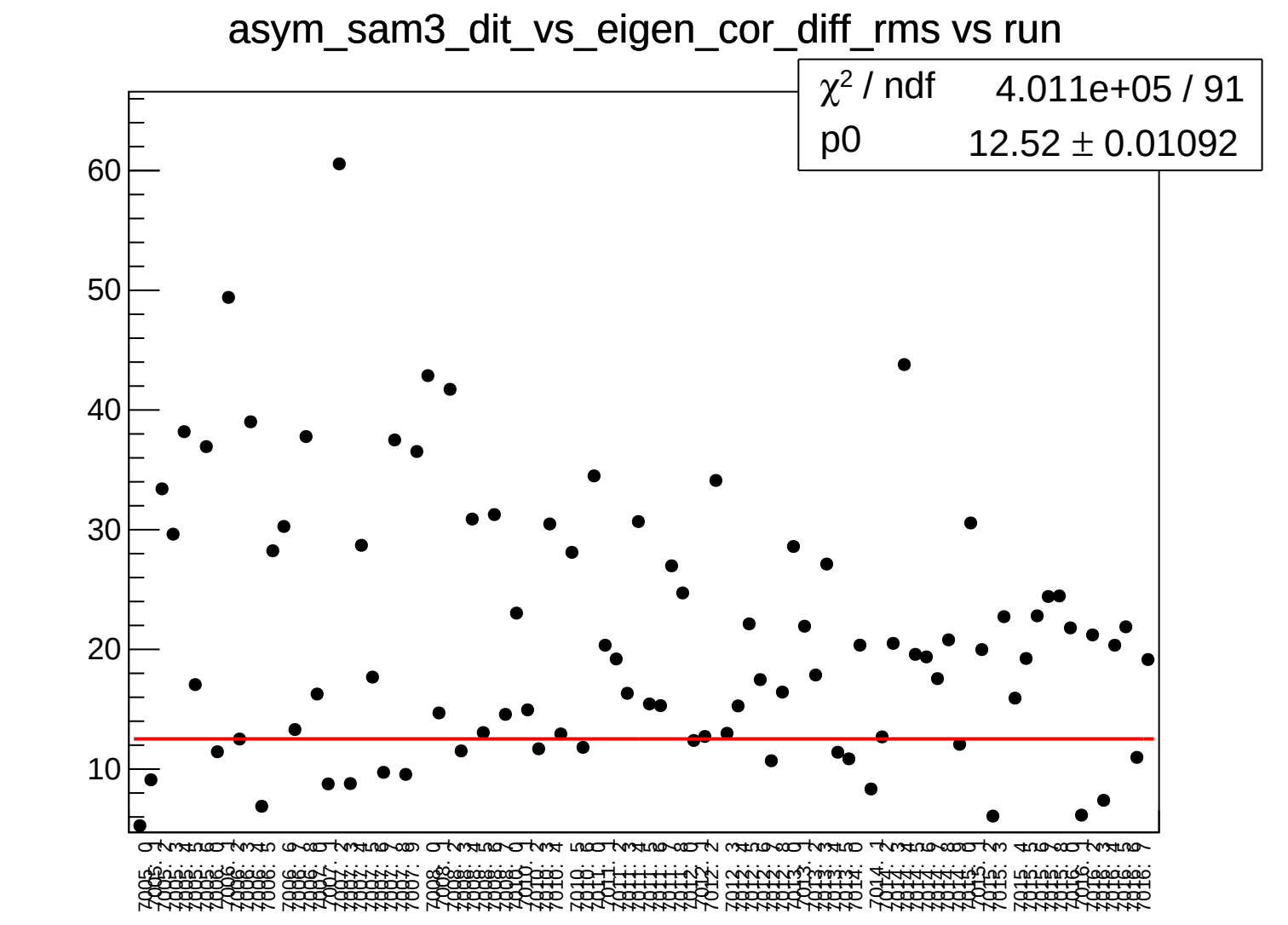

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 9.781e+05 / 91
p0 2.957e−11 ± 3.444e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

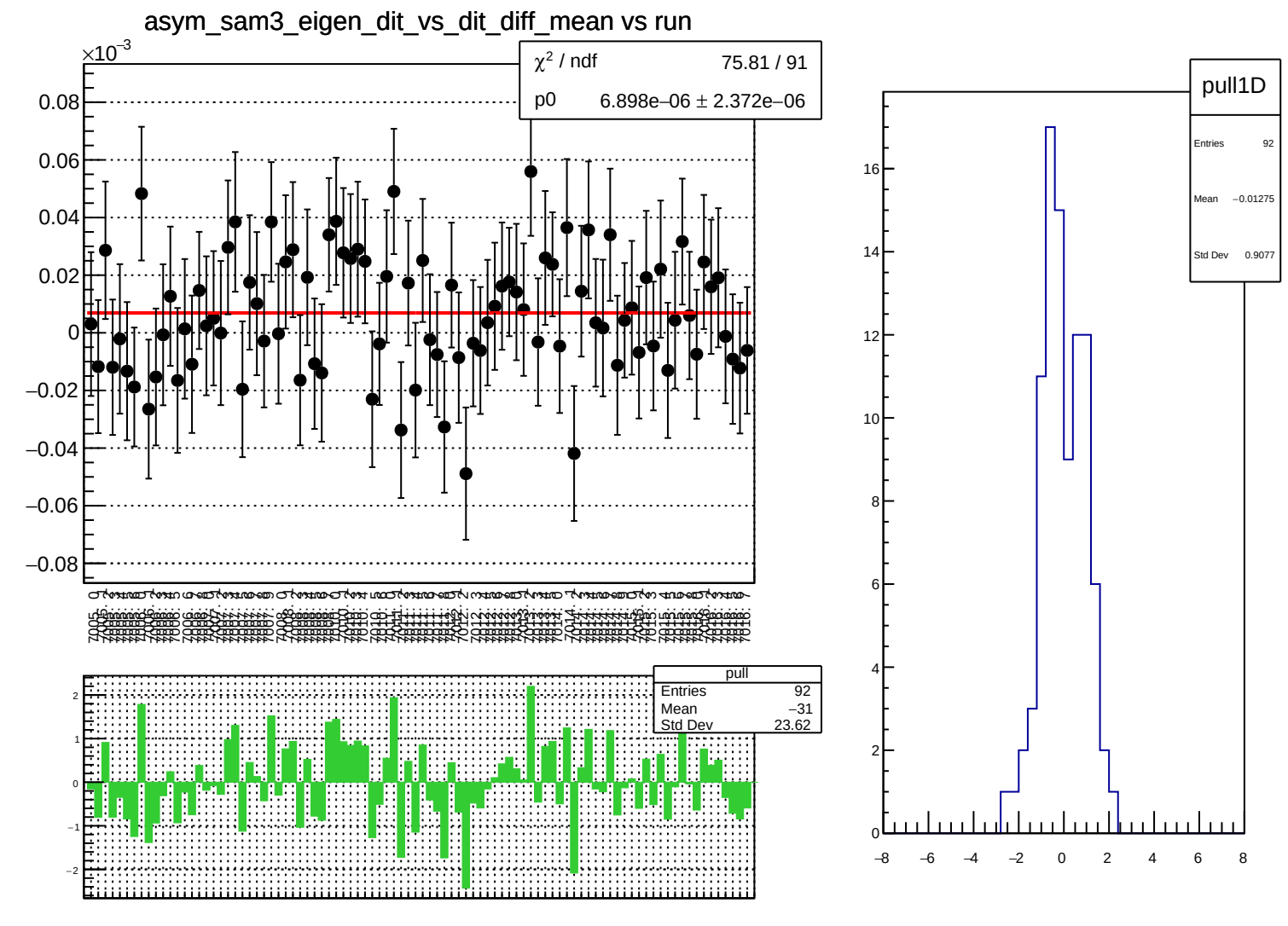

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 91.89 / 91
p0 −0.01203 ± 0.01545
pull
Entries 92
Mean −56
Std Dev 0
pull1D
Entries 92
Mean −0.02472
Std Dev 0.9991

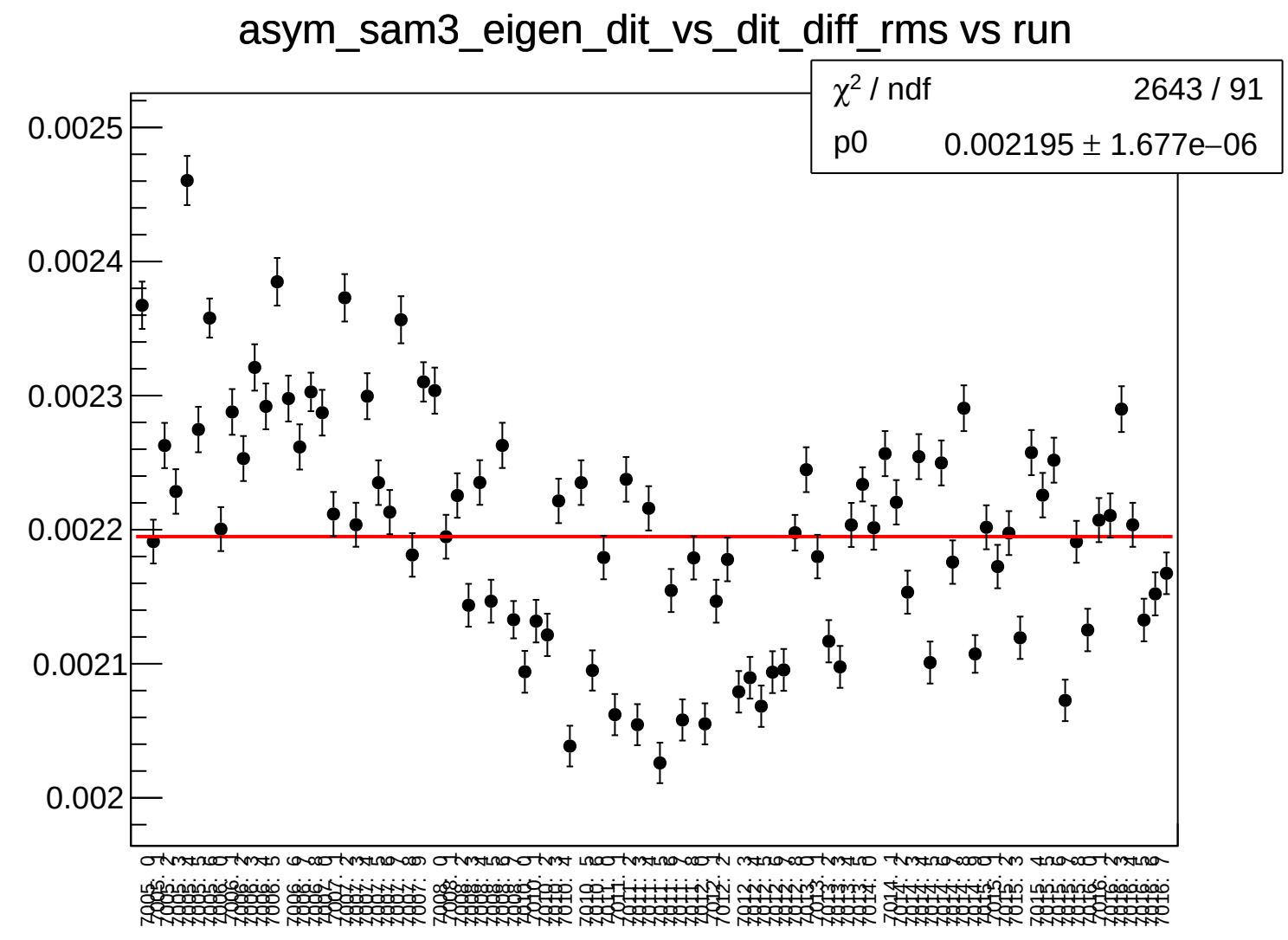

asym_sam3_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.011e+05 / 91
p0 12.52 ± 0.01092
60
50
40
30
20
10

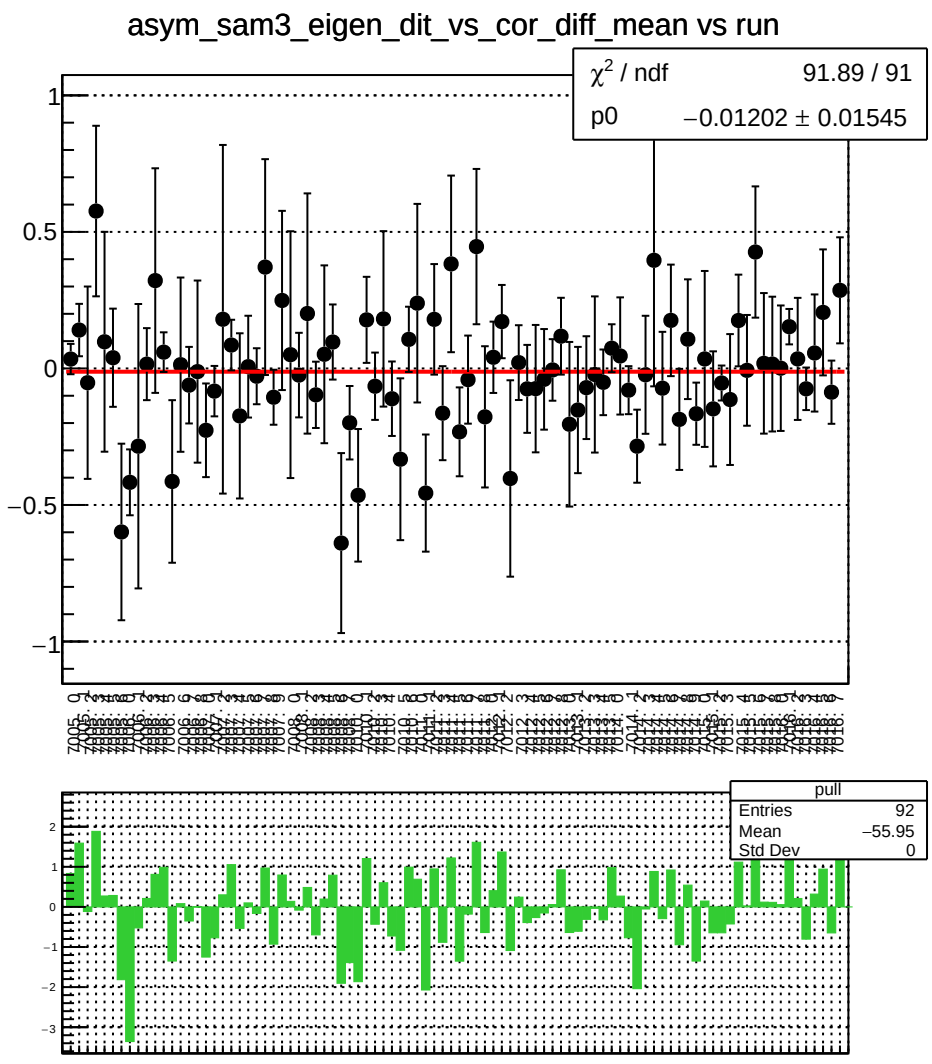

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.89 / 91
p0 −0.01203 ± 0.01545
pull
Entries 92
Mean −56
Std Dev 0

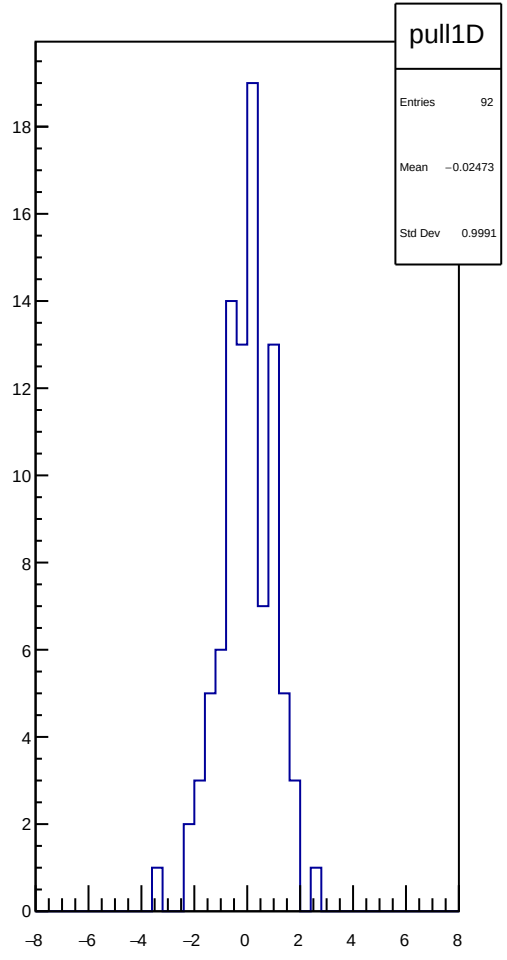

pull1D
Entries 92
Mean −0.02472
Std Dev 0.9991

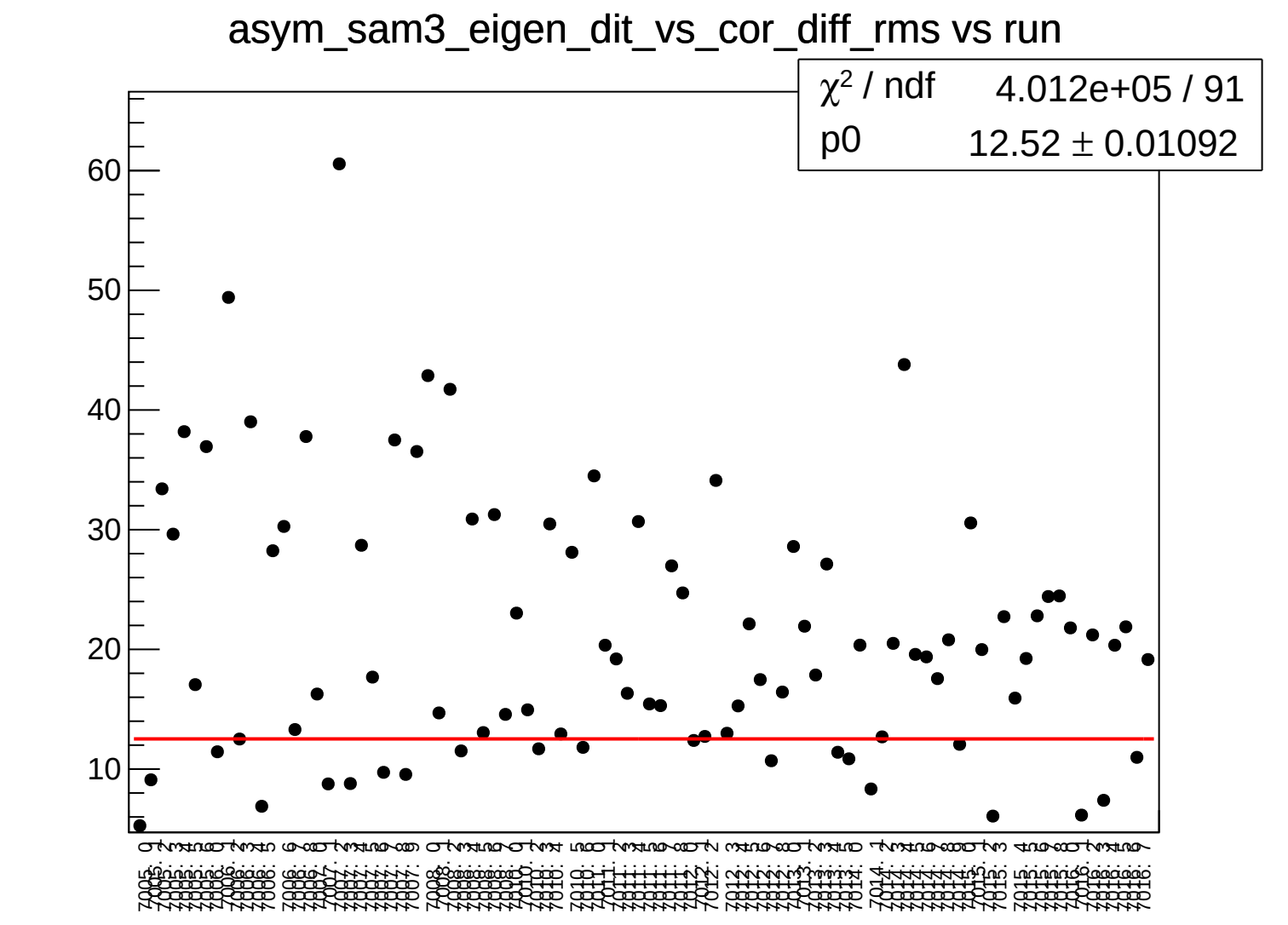

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.011e+05 / 91
p0 12.52 ± 0.01092
60
50
40
30
20
10

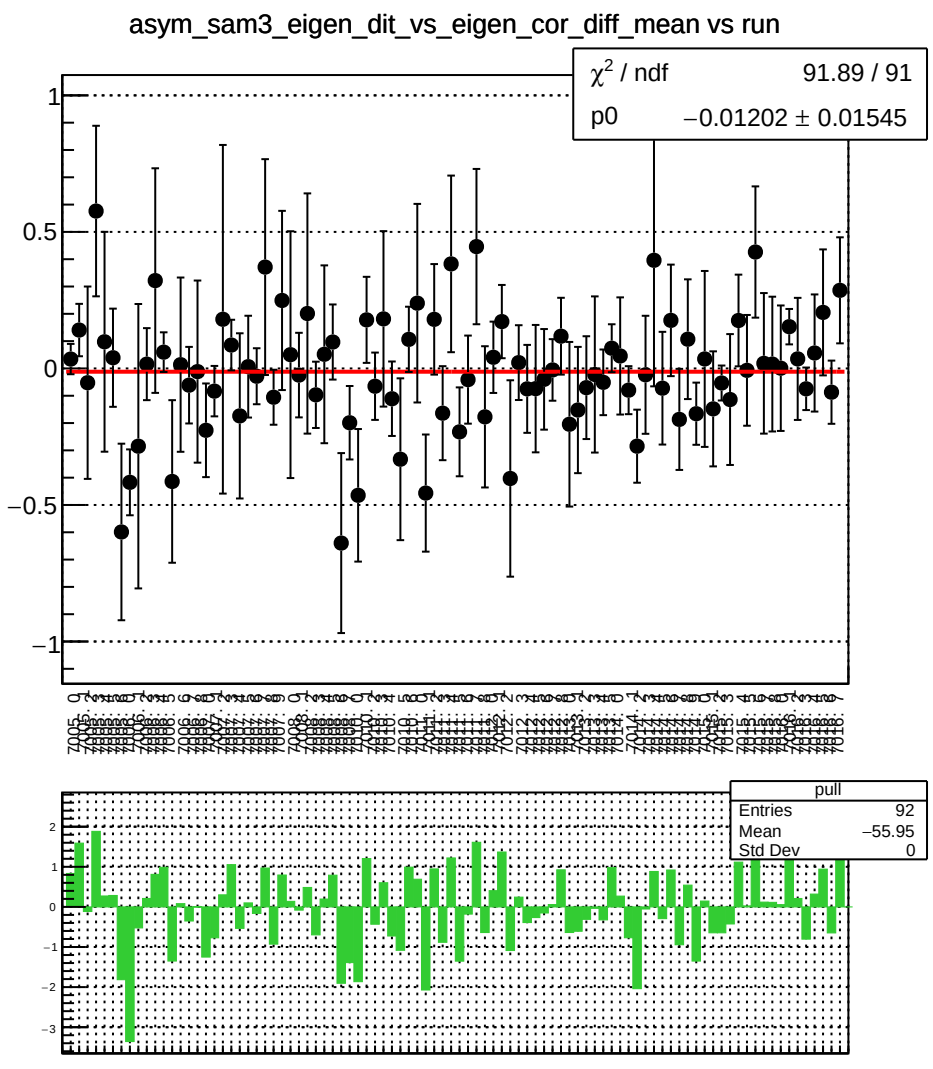

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.81 / 91
p0 6.898e−06 ± 2.372e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean −31
Std Dev 23.62
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01275
Std Dev 0.9077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

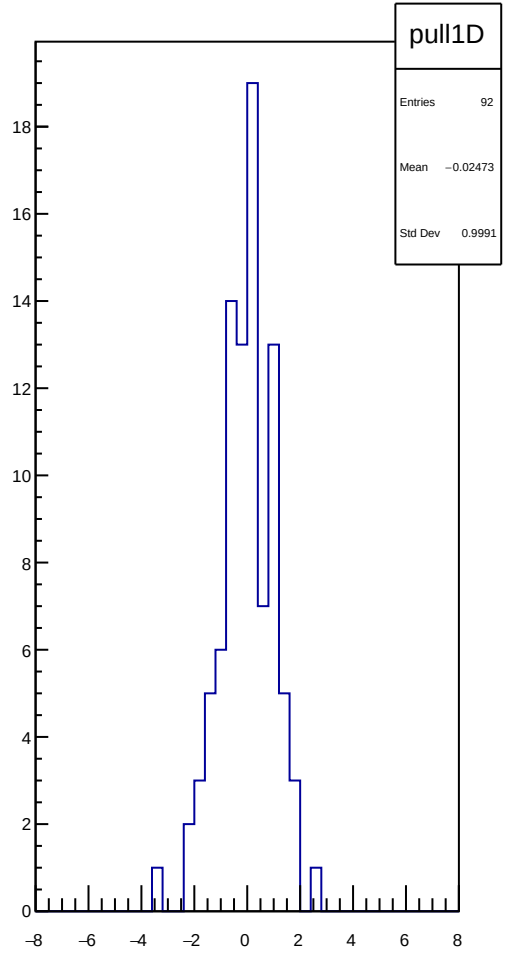

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2643 / 91
p0 0.002195 ± 1.677e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

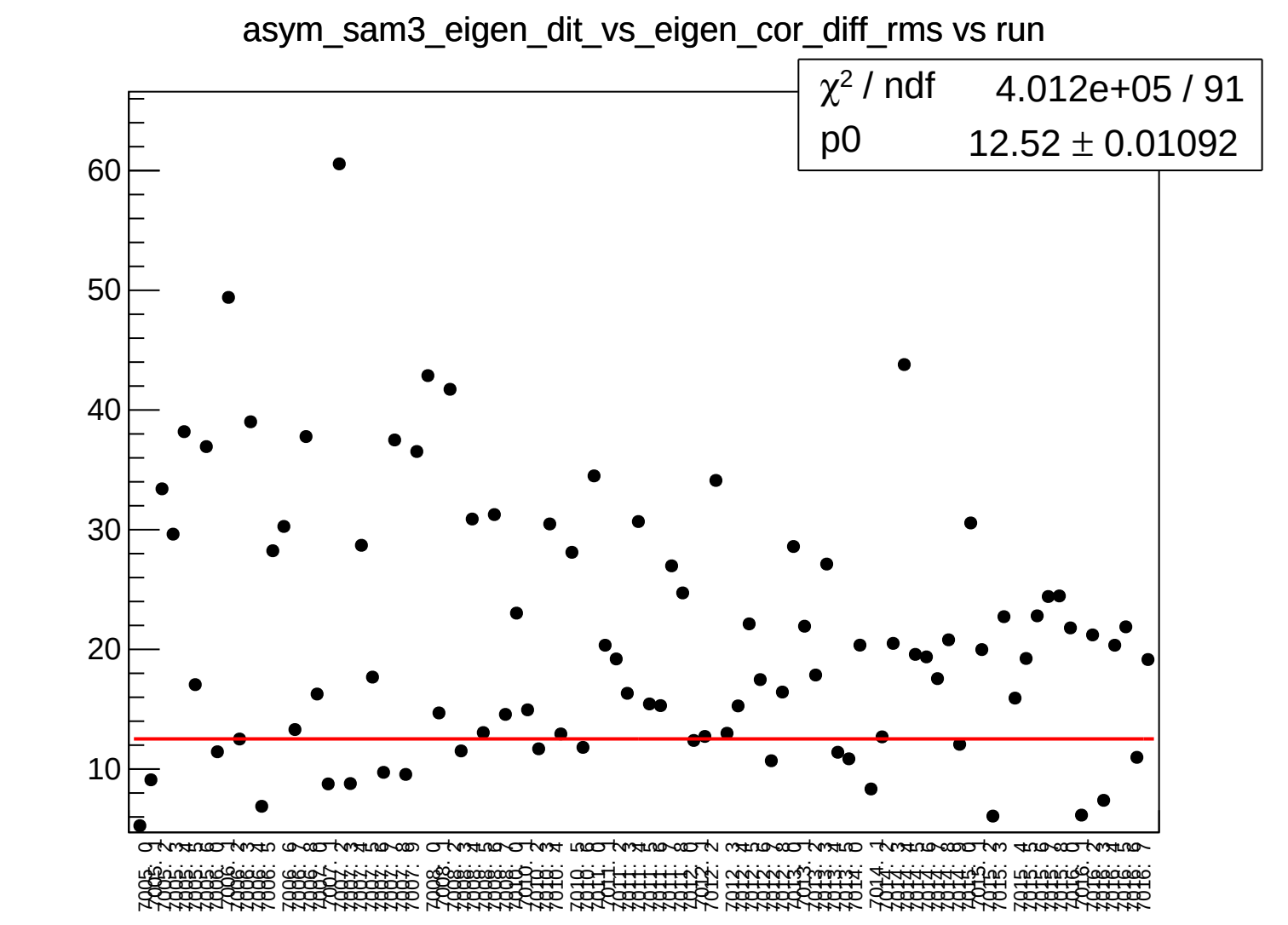

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.89 / 91
p0 −0.01202 ± 0.01545
pull
Entries 92
Mean −55.95
Std Dev 0

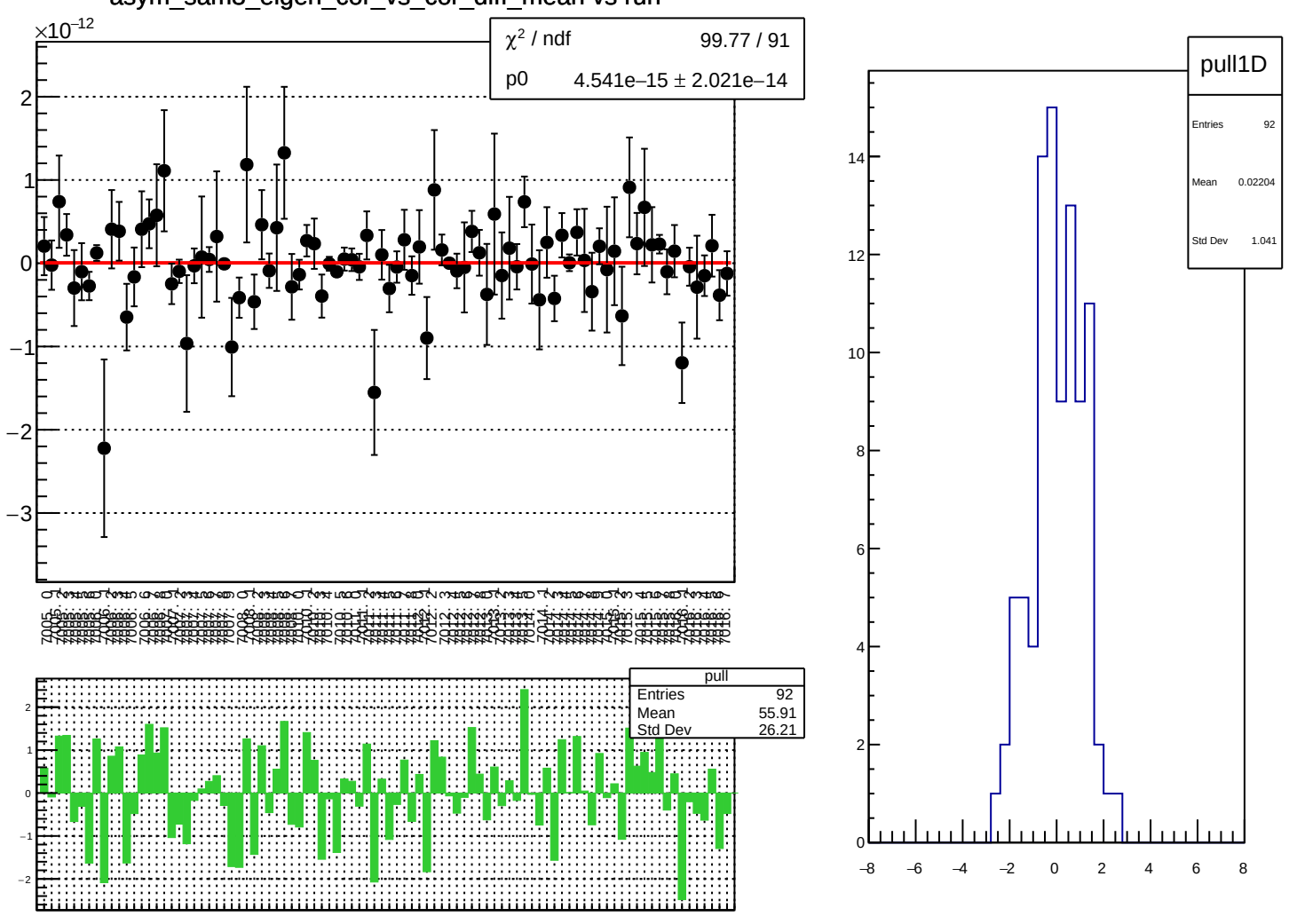

pull1D
Entries 92
Mean −0.02473
Std Dev 0.9991

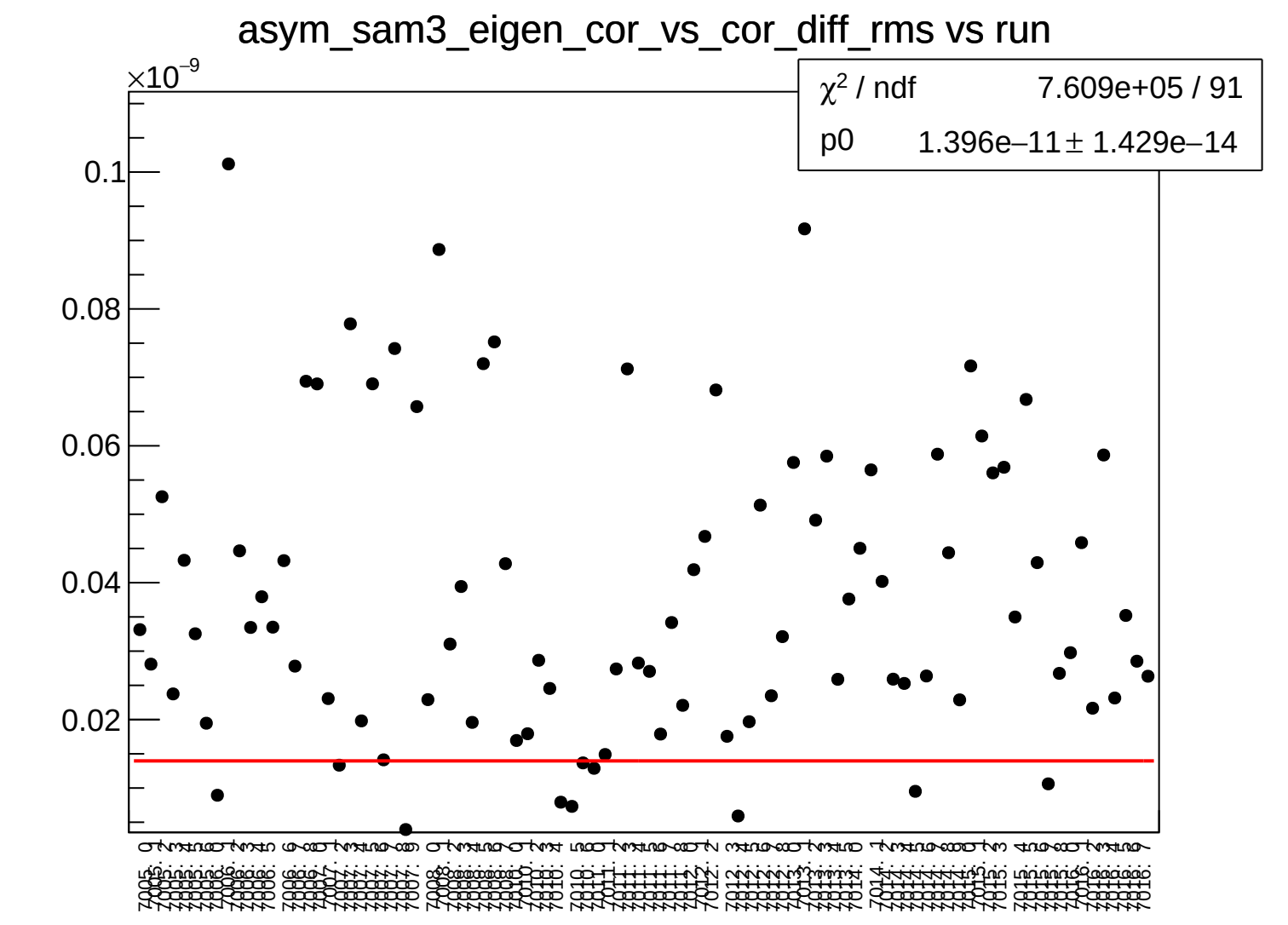

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.012e+05 / 91
p0 12.52 ± 0.01092
60
50
40
30
20
10

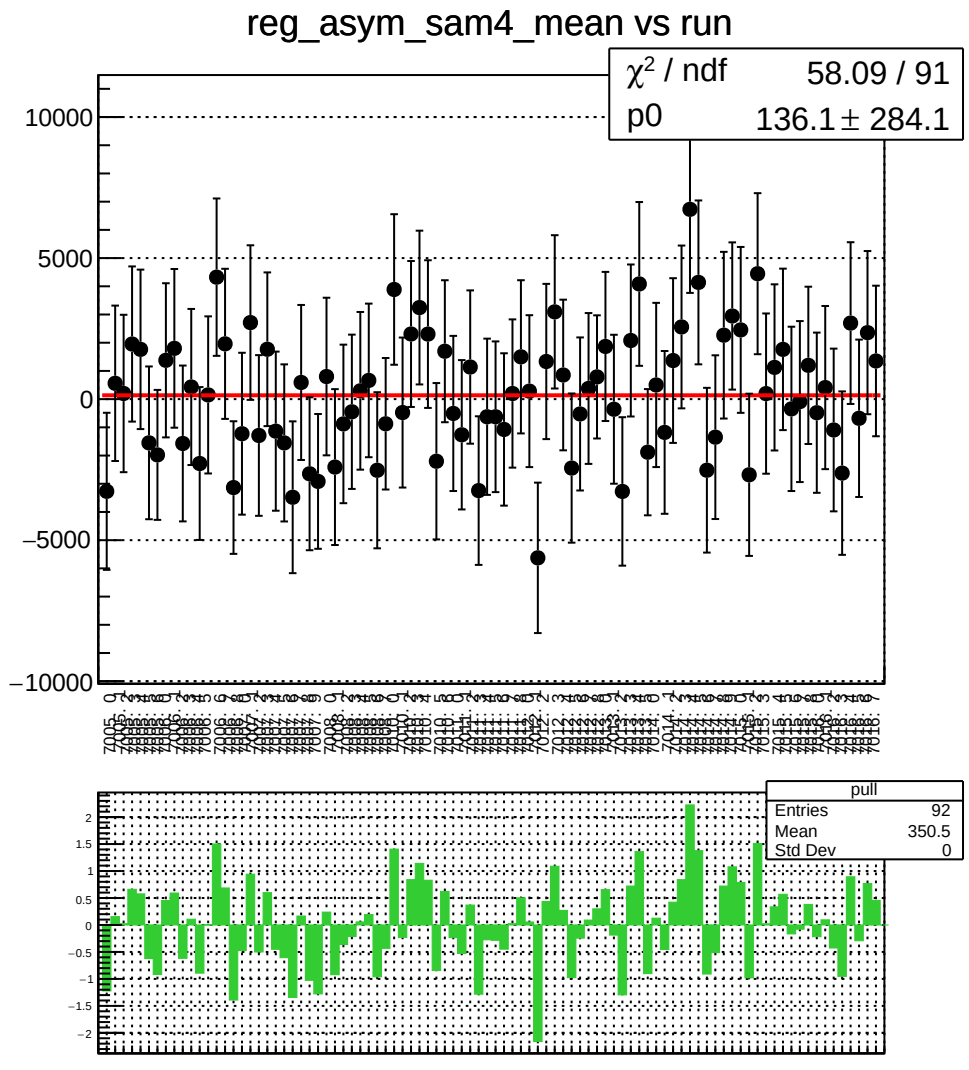

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.89 / 91
p0 −0.01202 ± 0.01545
pull
Entries 92
Mean −55.95
Std Dev 0

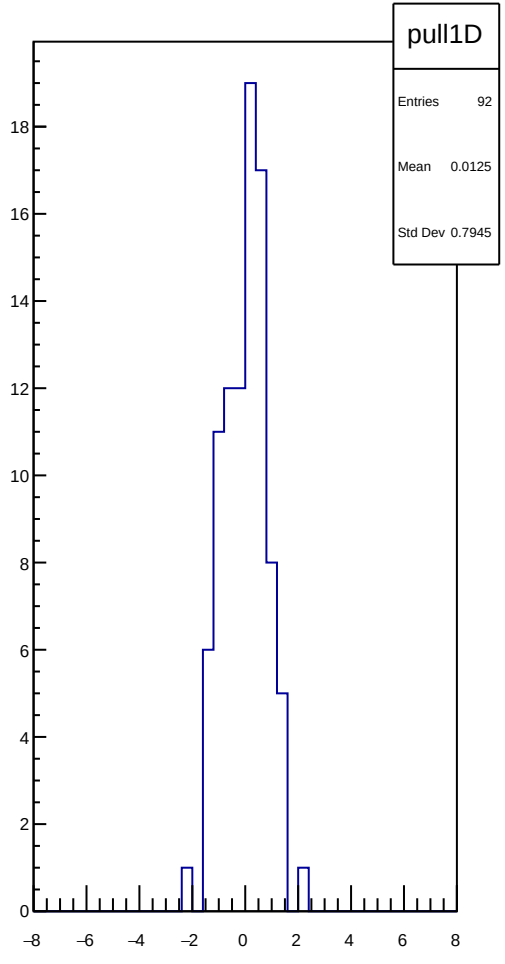

pull1D
Entries 92
Mean −0.02473
Std Dev 0.9991

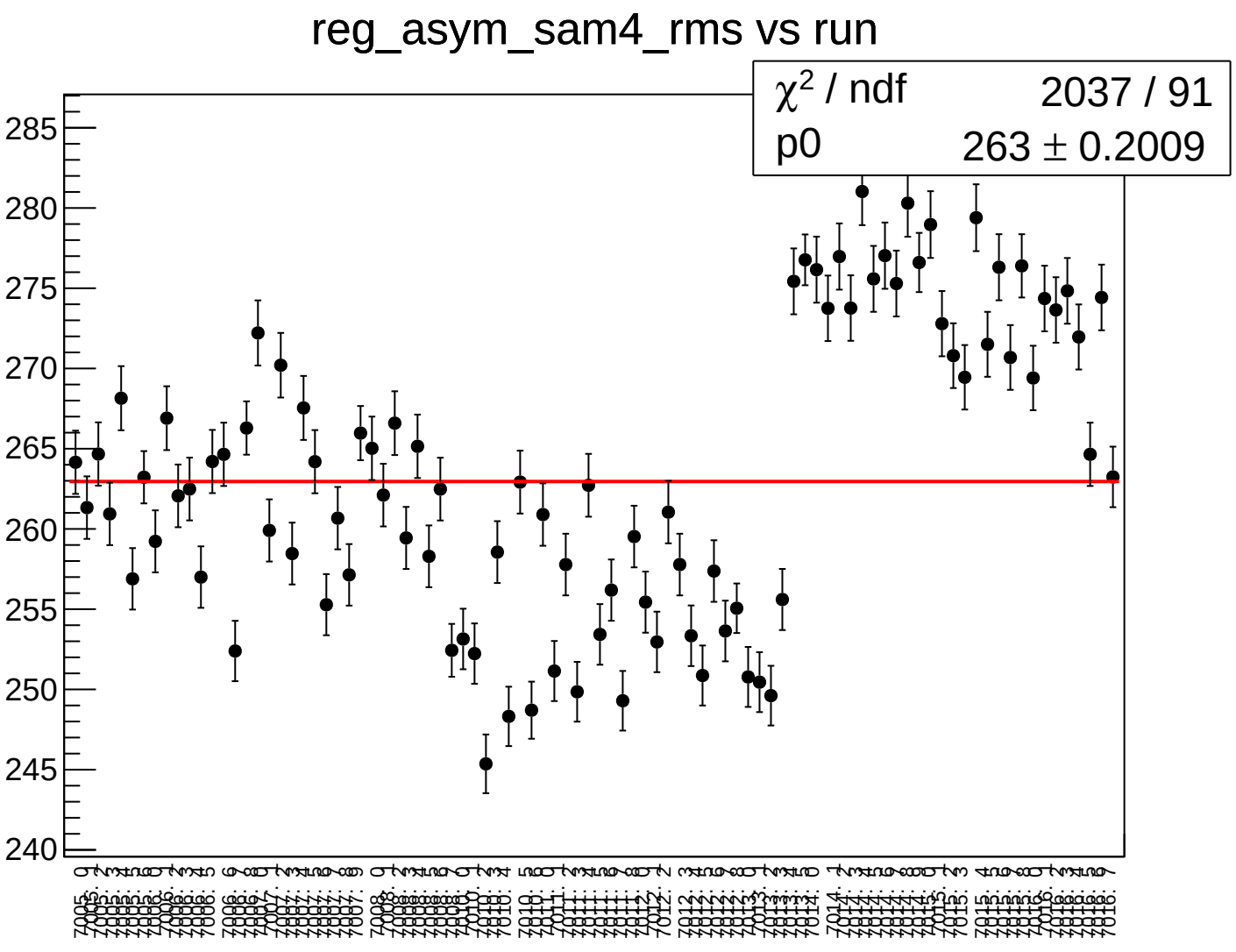

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.012e+05 / 91
p0 12.52 ± 0.01092
60
50
40
30
20
10

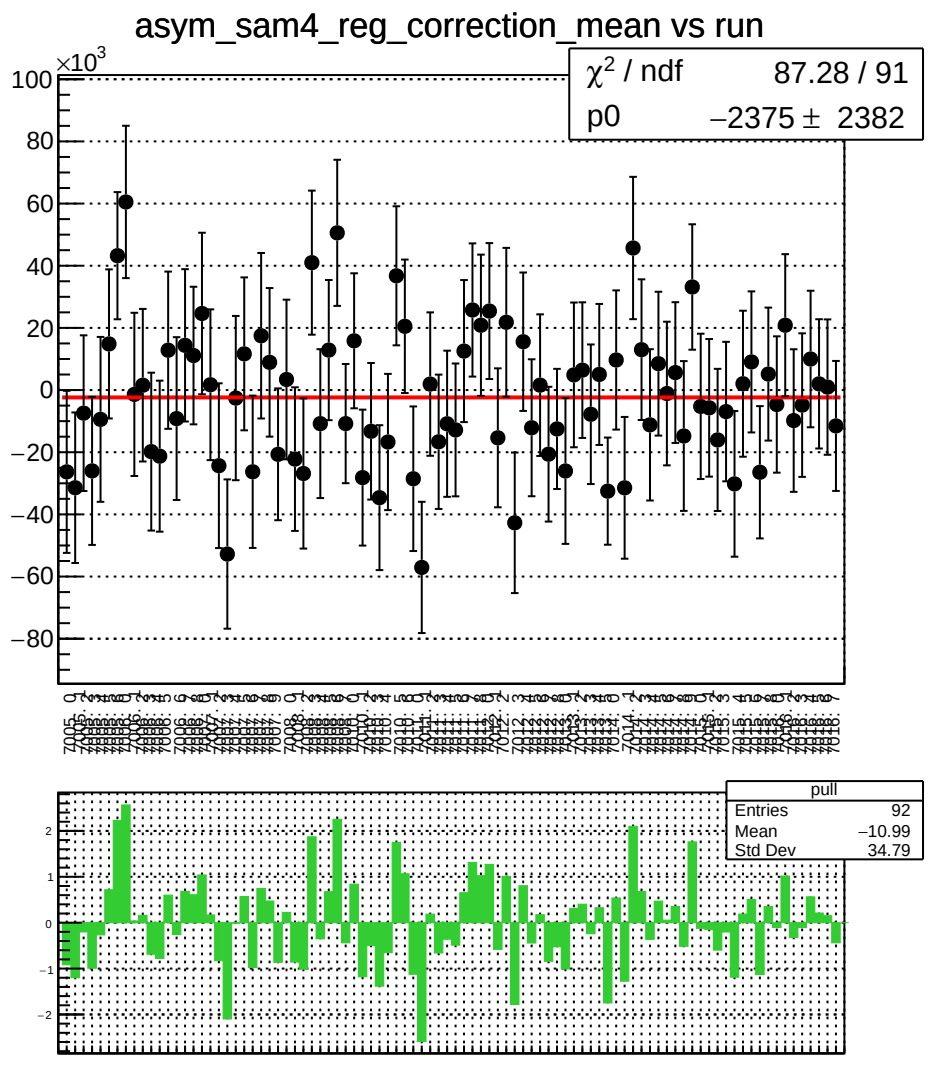

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.77 / 91
p0 4.541e−15 ± 2.021e−14
pull
Entries 92
Mean 55.91
Std Dev 26.21
pull1D
Entries 92
Mean 0.02204
Std Dev 1.041

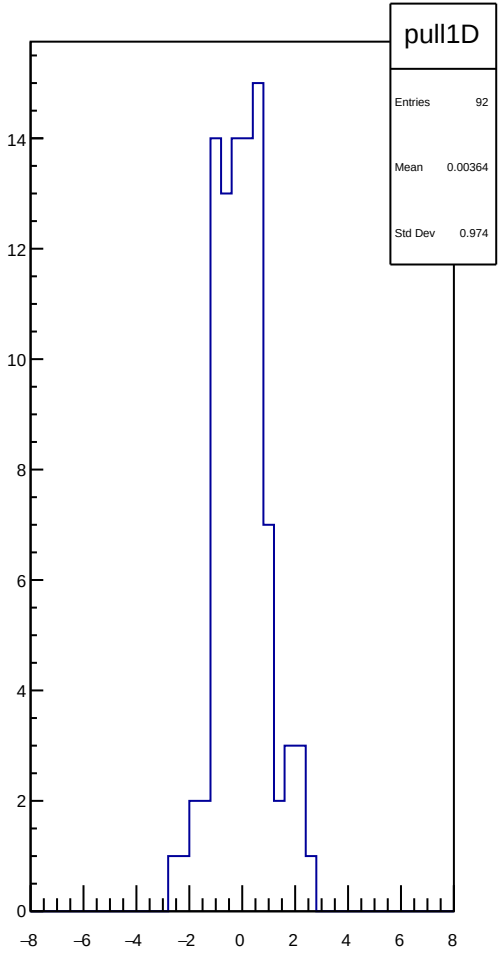

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.609e+05 / 91
p0 1.396e−11 ± 1.429e−14
0.1
0.08
0.06
0.04
0.02

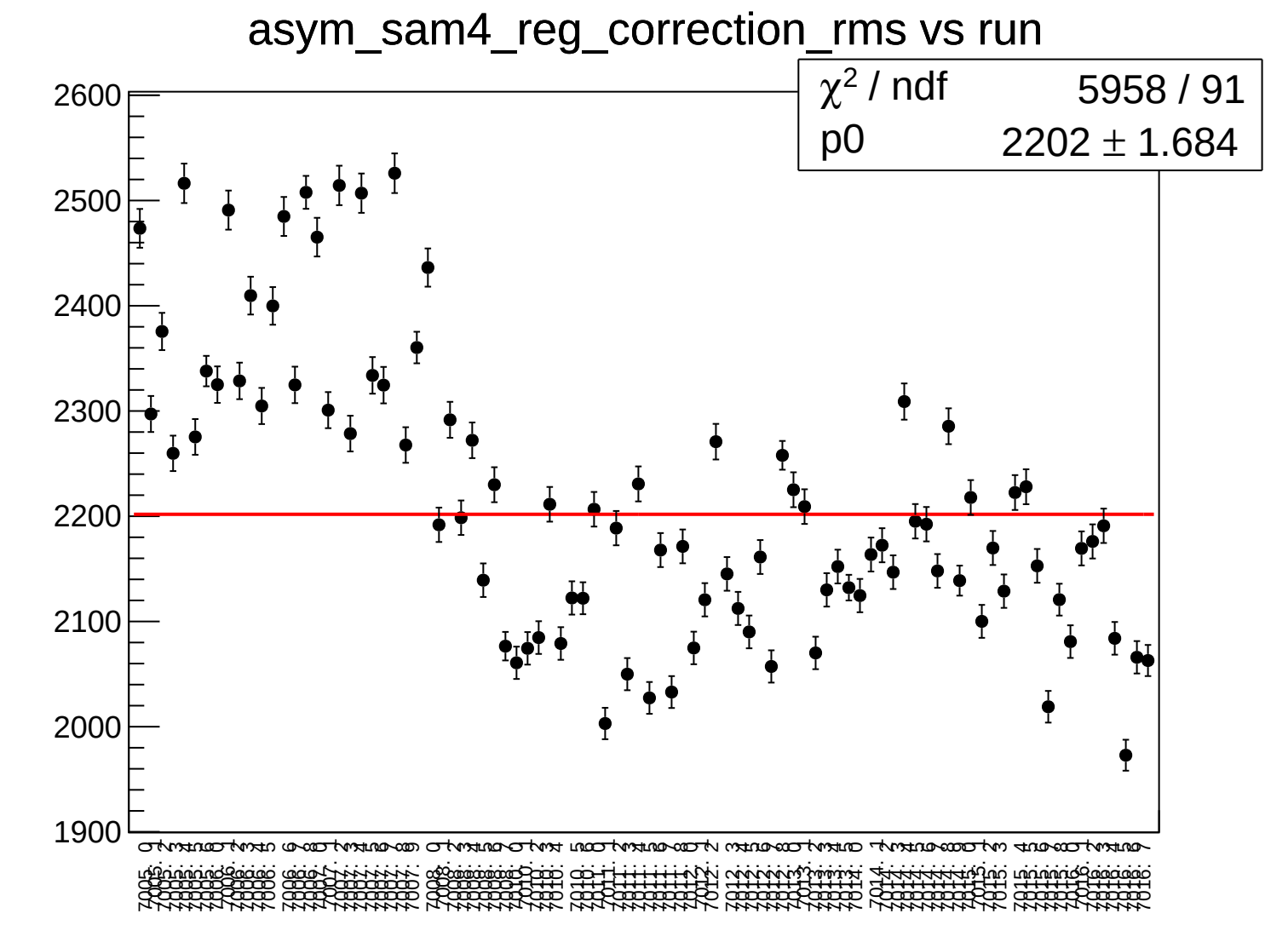

reg_asym_sam4_mean vs run
$\chi^2$ / ndf 58.09 / 91
p0 136.1 ± 284.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 350.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

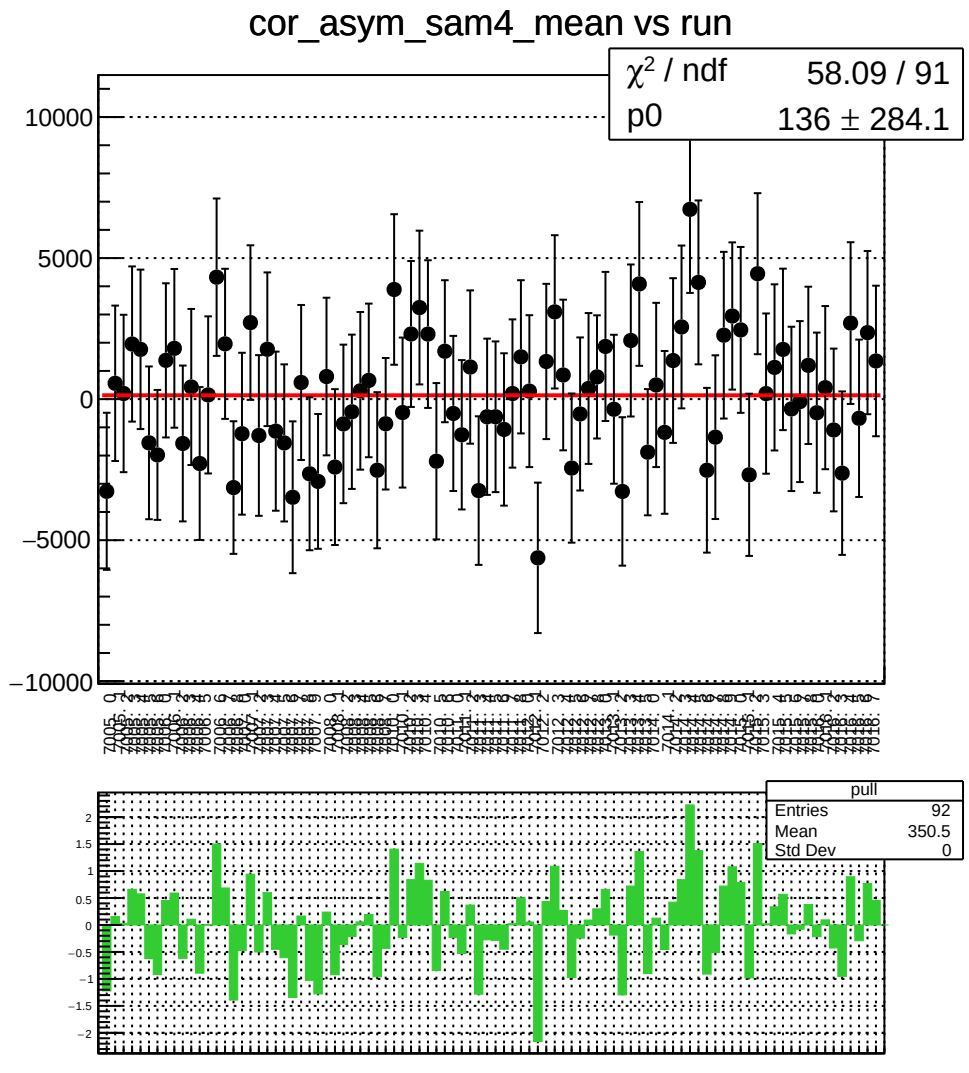

pull1D
Entries 92
Mean 0.0125
Std Dev 0.7945
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

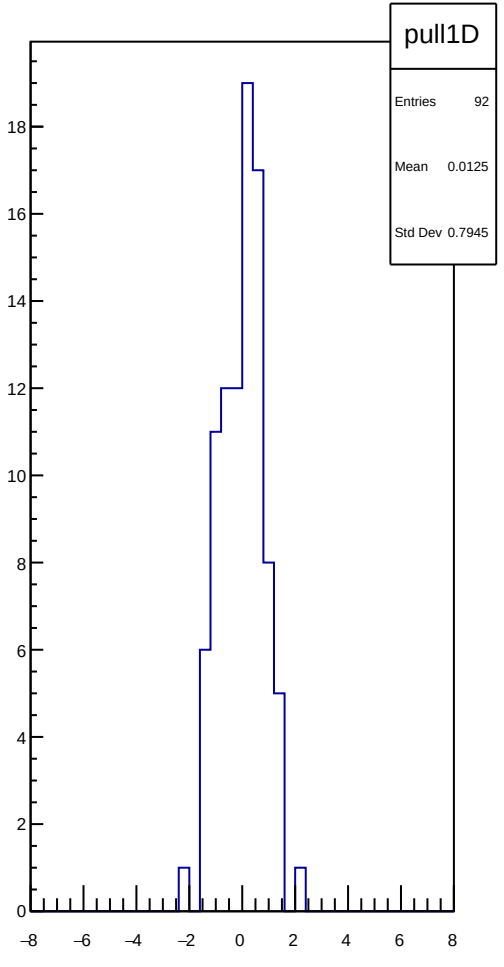

reg_asym_sam4_rms vs run
χ² / ndf 2037 / 91
p0 263 ± 0.2009
285
280
275
270
265
260
255
250
245
240

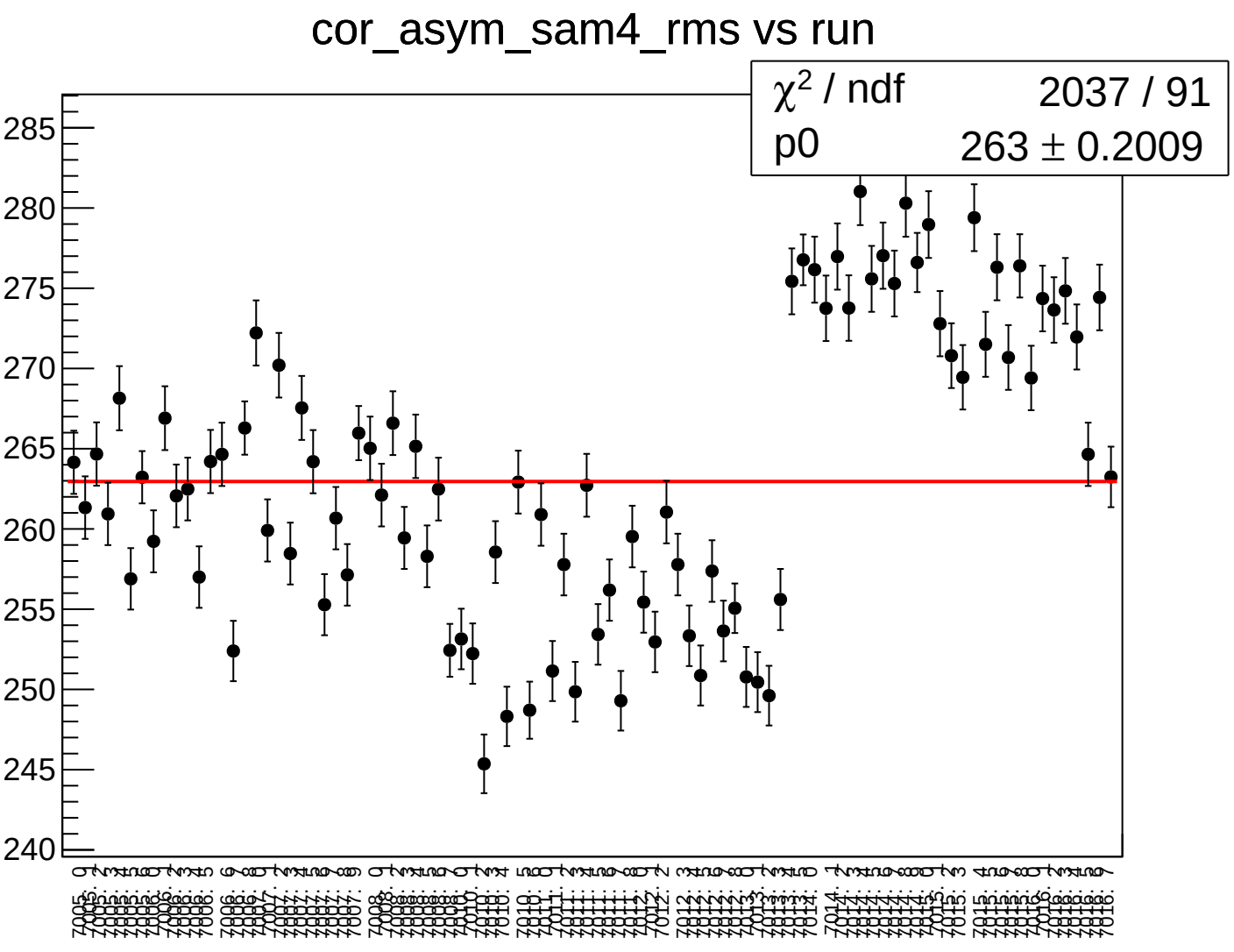

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 87.28 / 91
p0 −2375 ± 2382
pull
Entries 92
Mean −10.99
Std Dev 34.79

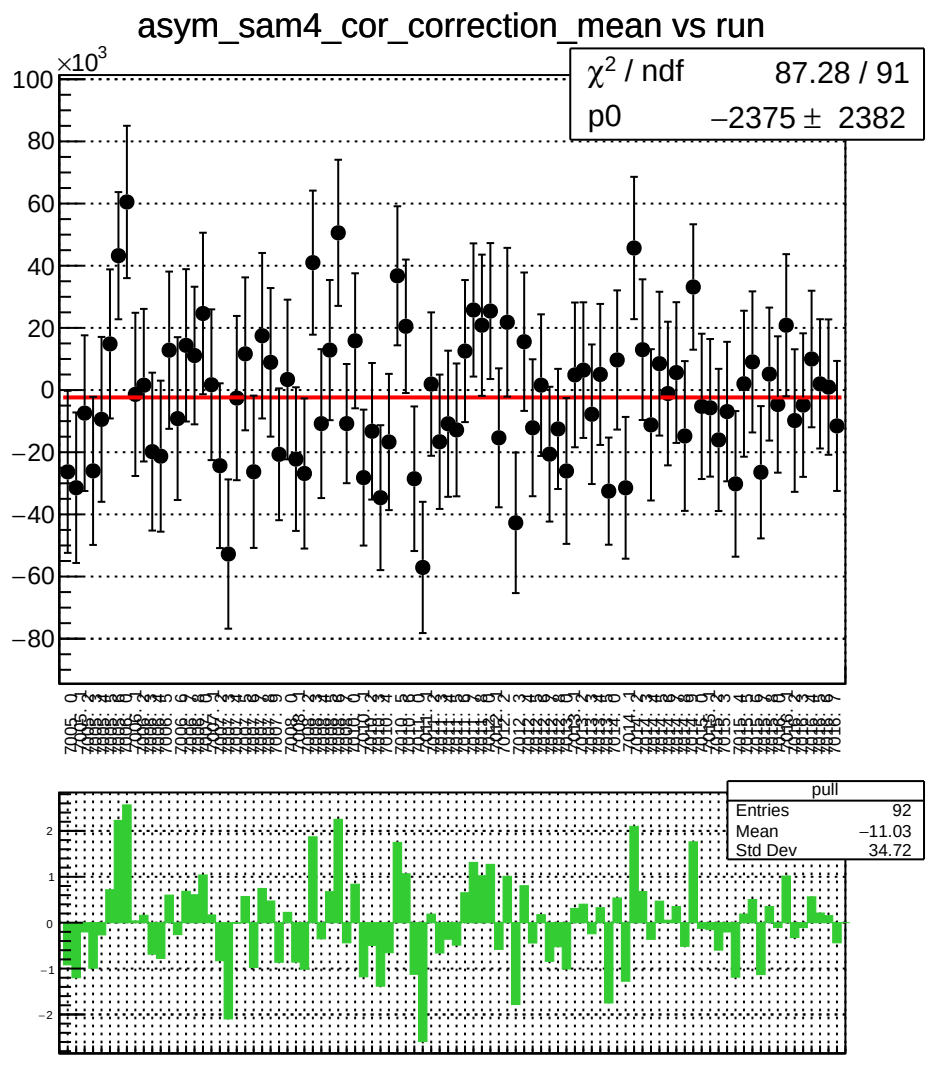

pull1D
Entries 92
Mean 0.00364
Std Dev 0.974

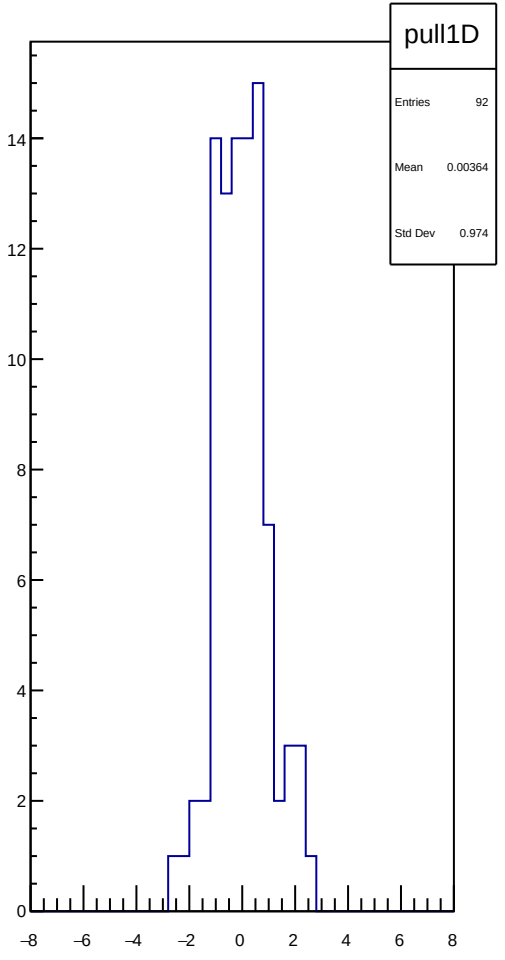

asym_sam4_reg_correction_rms vs run
χ² / ndf 5958 / 91
p0 2202 ± 1.684
2600
2500
2400
2300
2200
2100
2000
1900

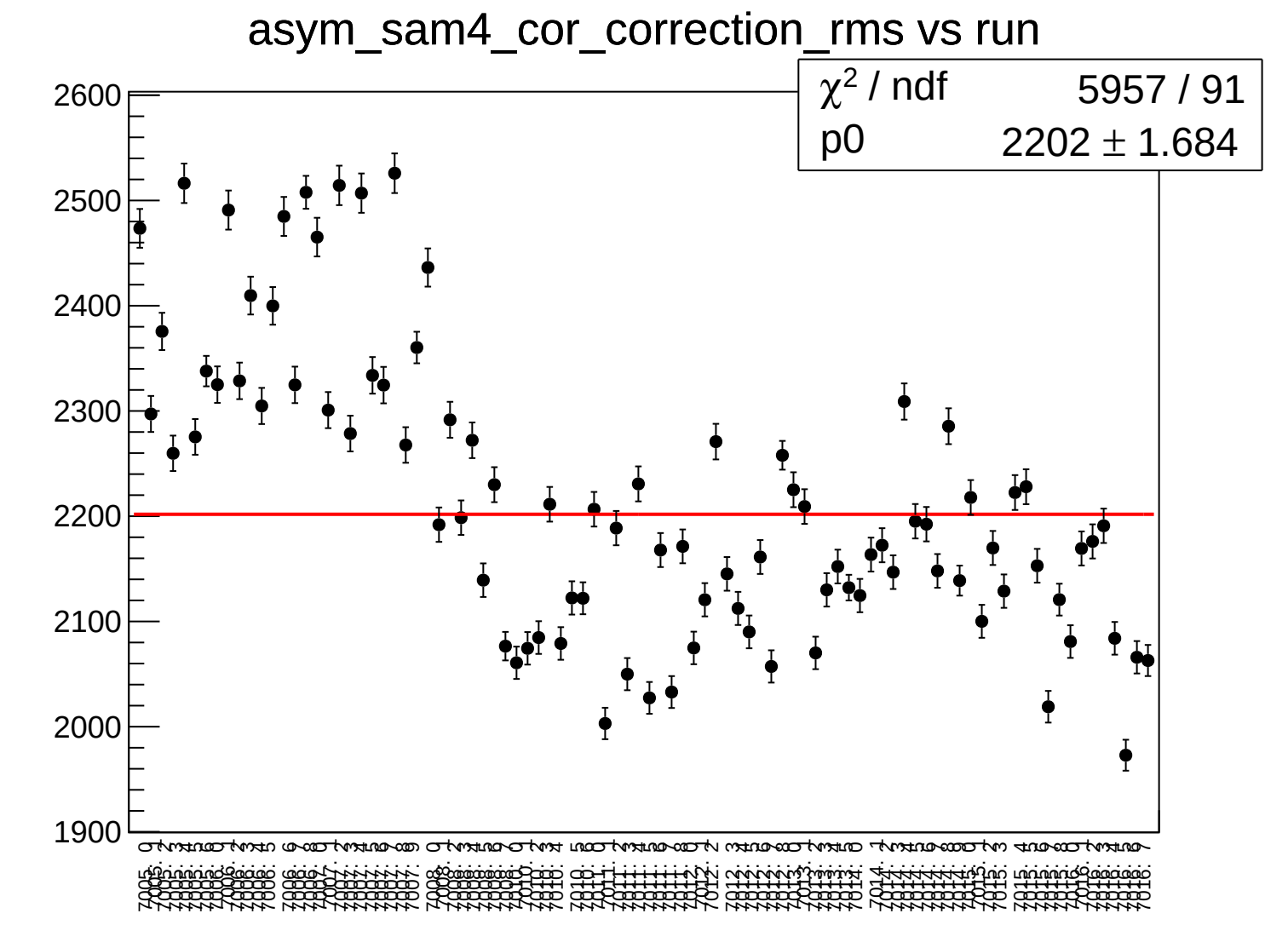

cor_asym_sam4_mean vs run
χ² / ndf 58.09 / 91
p0 136 ± 284.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 350.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

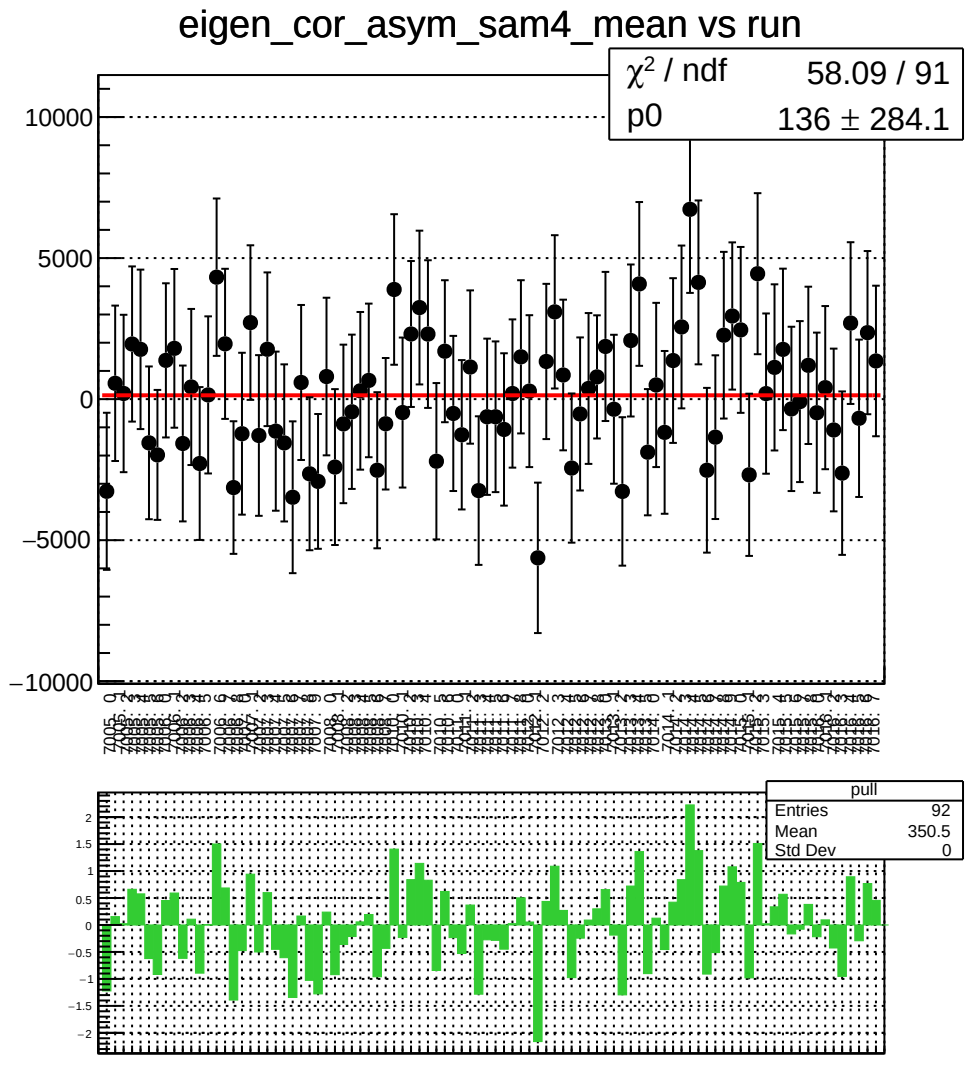

pull1D
Entries 92
Mean 0.0125
Std Dev 0.7945
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

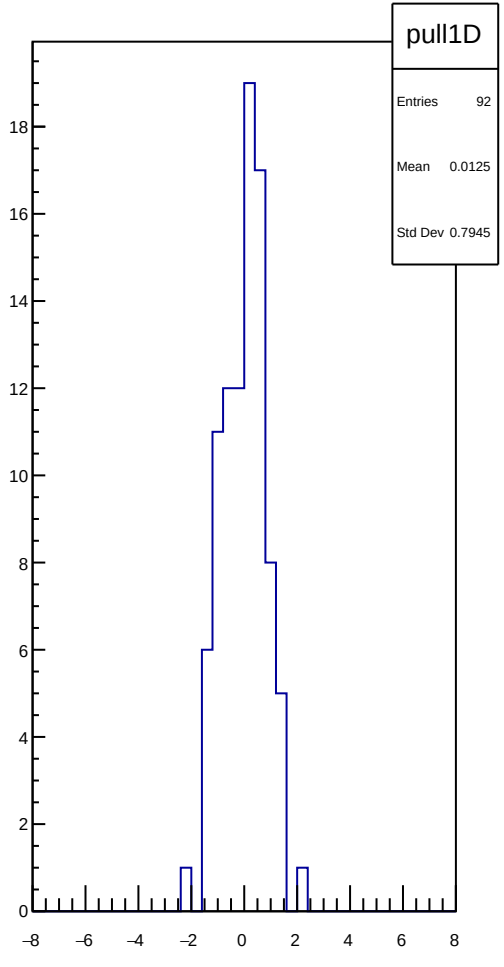

cor_asym_sam4_rms vs run
χ² / ndf 2037 / 91
p0 263 ± 0.2009
285
280
275
270
265
260
255
250
245
240

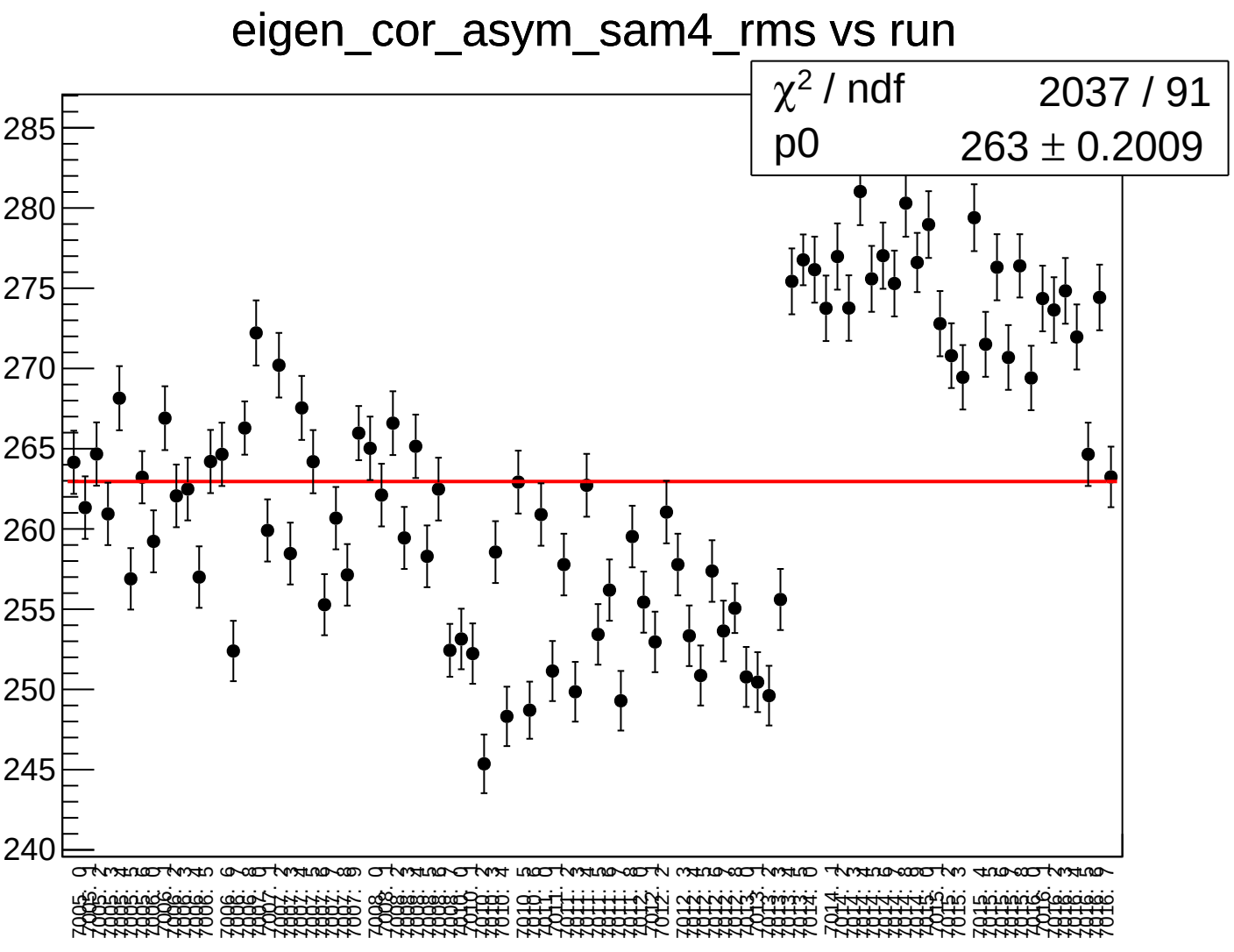

asym_sam4_cor_correction_mean vs run
$\chi^2$ / ndf 87.28 / 91
p0 −2375 ± 2382
×10^3
pull
Entries 92
Mean −11.03
Std Dev 34.72

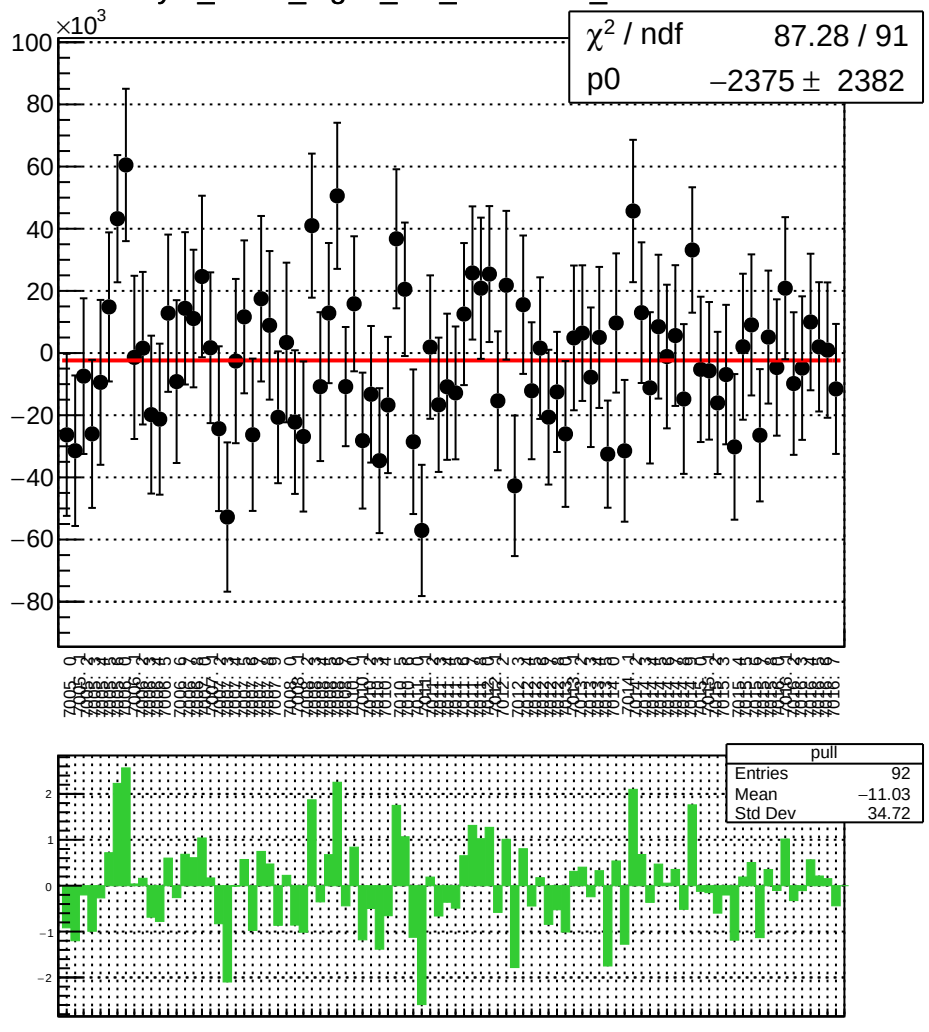

pull1D
Entries 92
Mean 0.00364
Std Dev 0.974

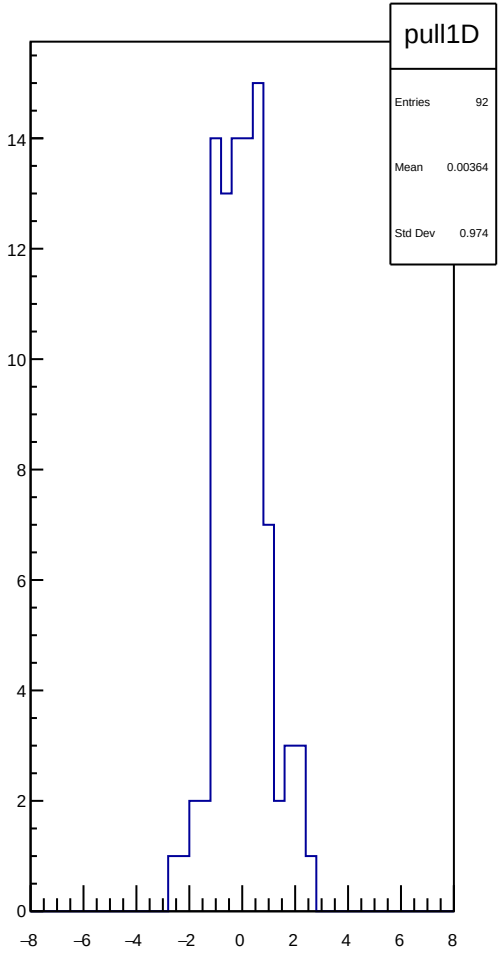

asym_sam4_cor_correction_rms vs run
χ² / ndf 5957 / 91
p0 2202 ± 1.684
2600
2500
2400
2300
2200
2100
2000
1900

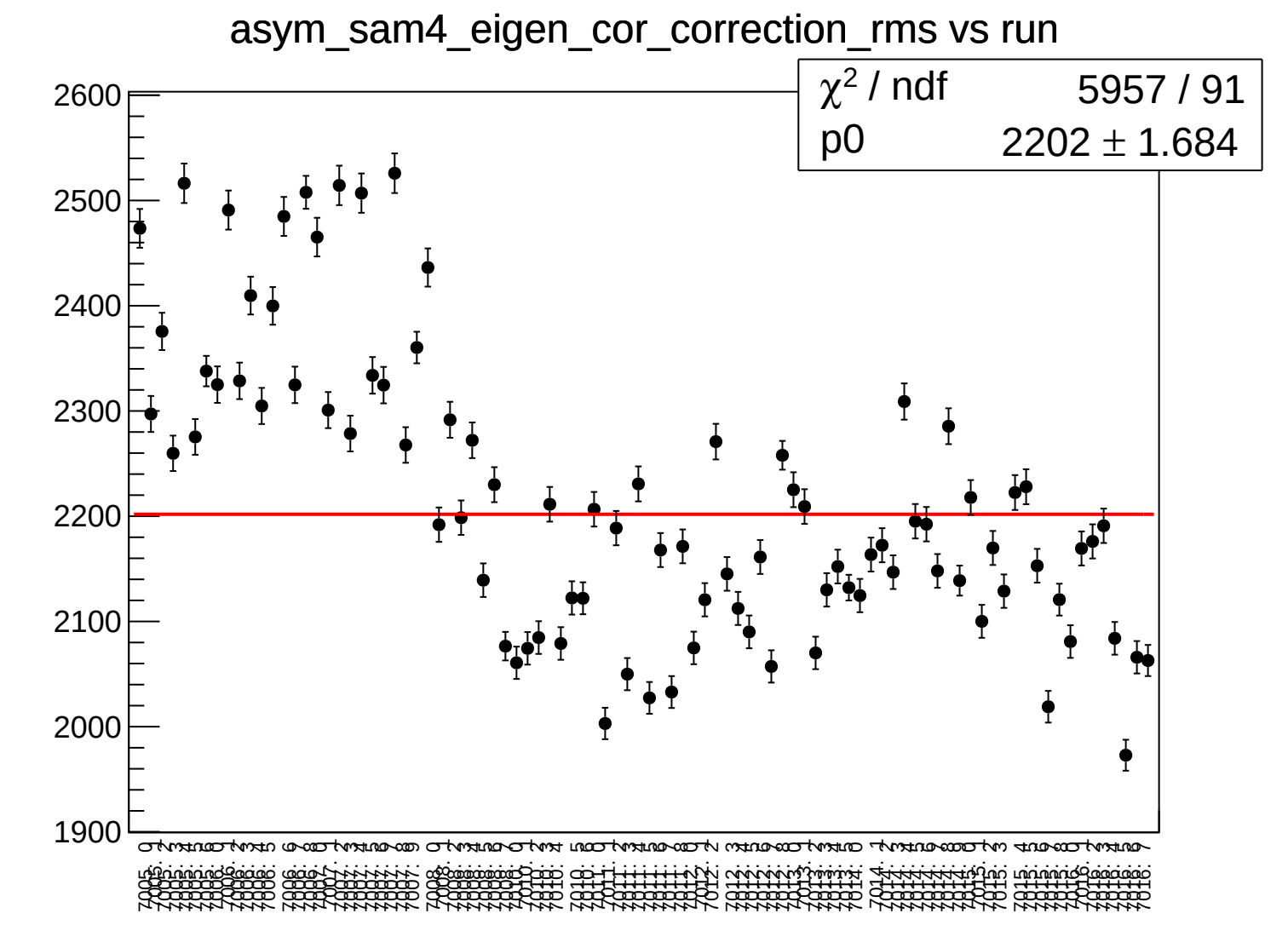

eigen_cor_asym_sam4_mean vs run
χ² / ndf 58.09 / 91
p0 136 ± 284.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 350.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

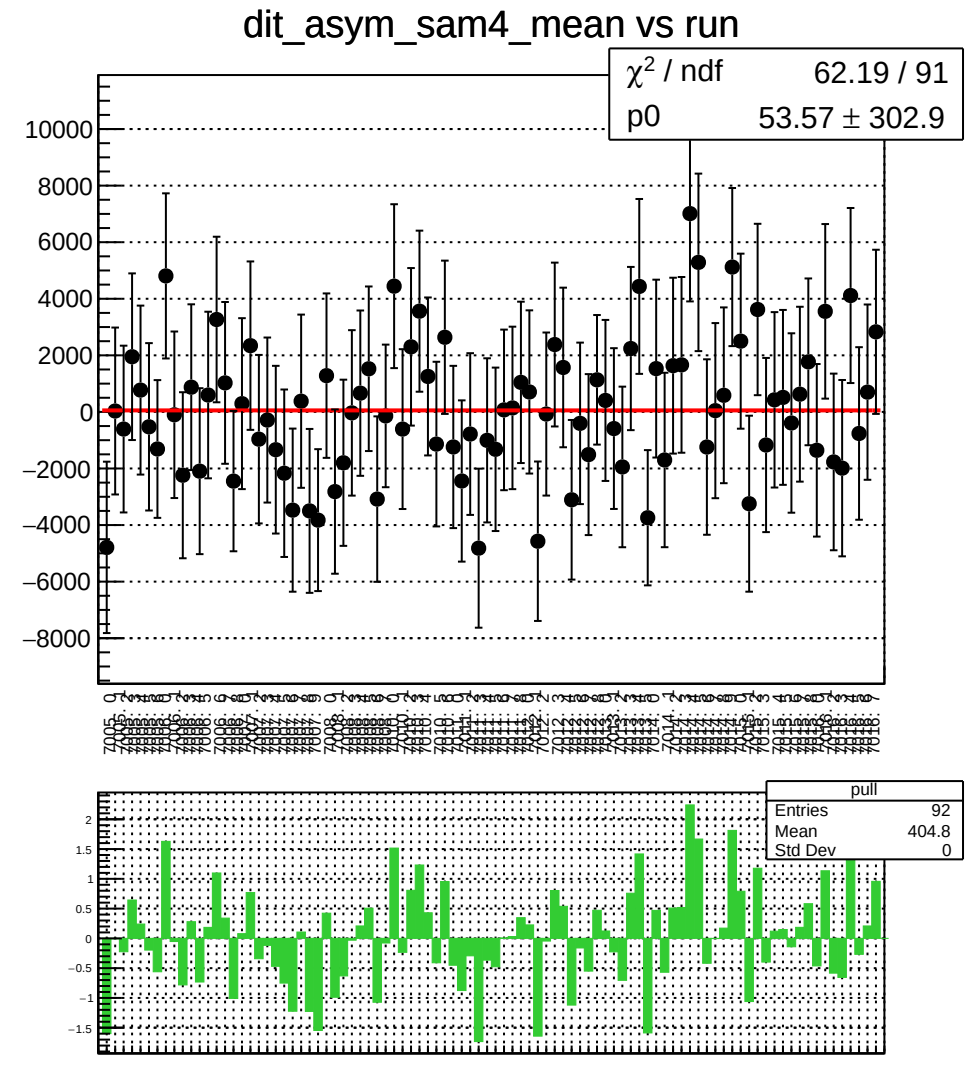

pull1D
Entries 92
Mean 0.0125
Std Dev 0.7945
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

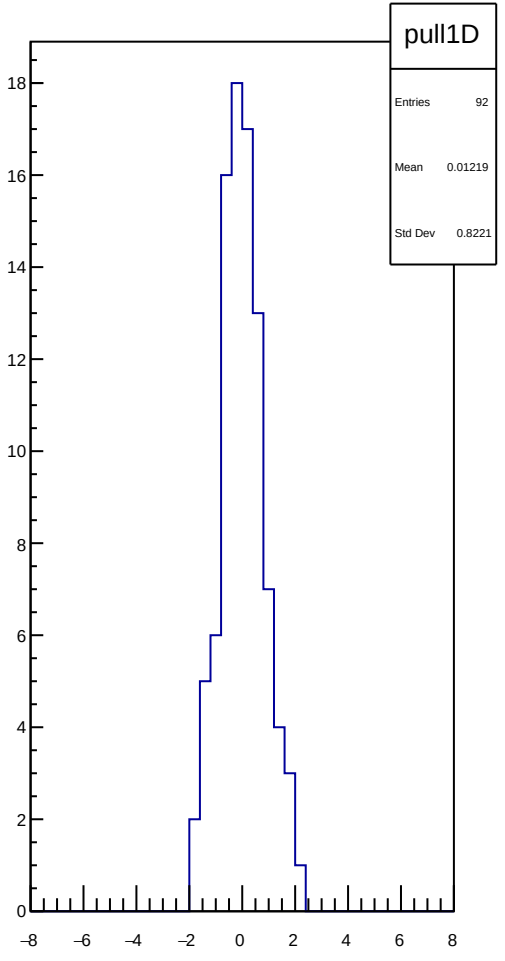

eigen_cor_asym_sam4_rms vs run
χ² / ndf 2037 / 91
p0 263 ± 0.2009
285
280
275
270
265
260
255
250
245
240

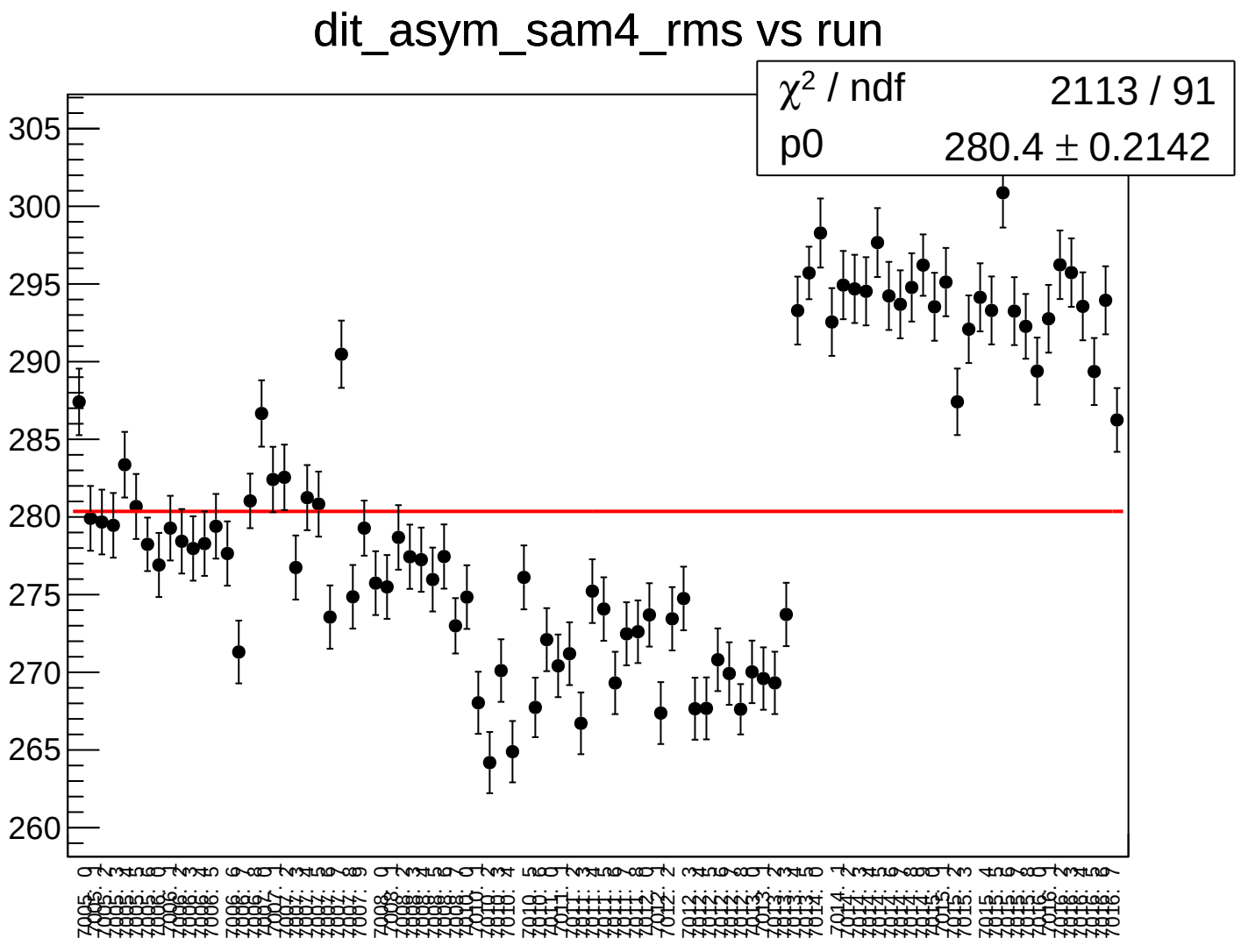

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.28 / 91
p0 −2375 ± 2382
pull
Entries 92
Mean −11.03
Std Dev 34.72

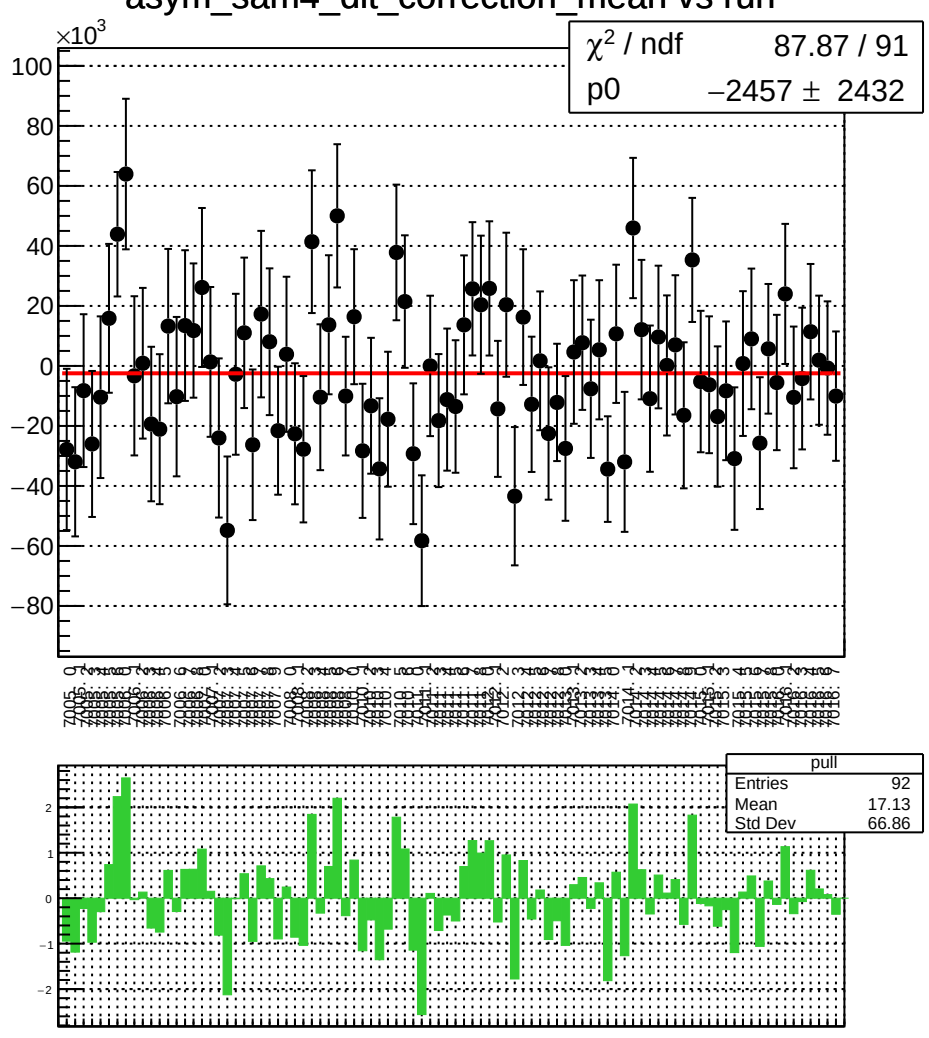

pull1D
Entries 92
Mean 0.00364
Std Dev 0.974

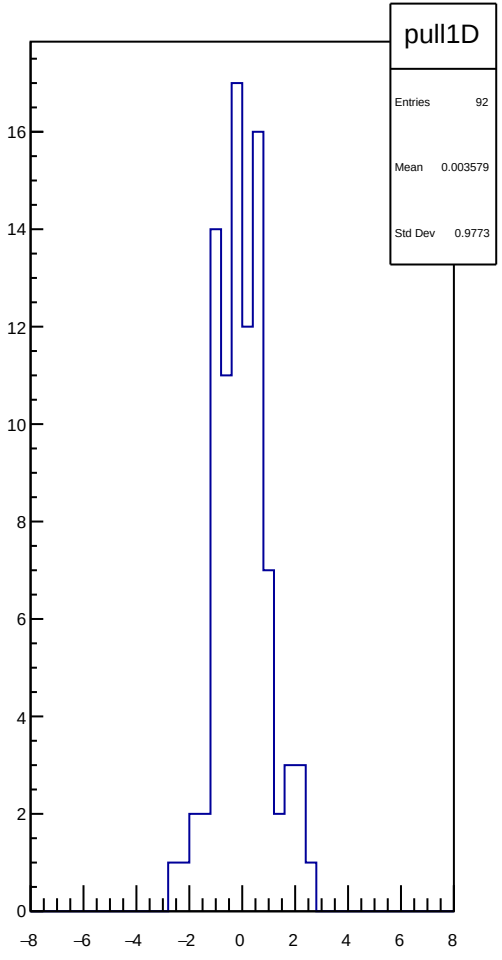

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 5957 / 91
p0 2202 ± 1.684
2600
2500
2400
2300
2200
2100
2000
1900

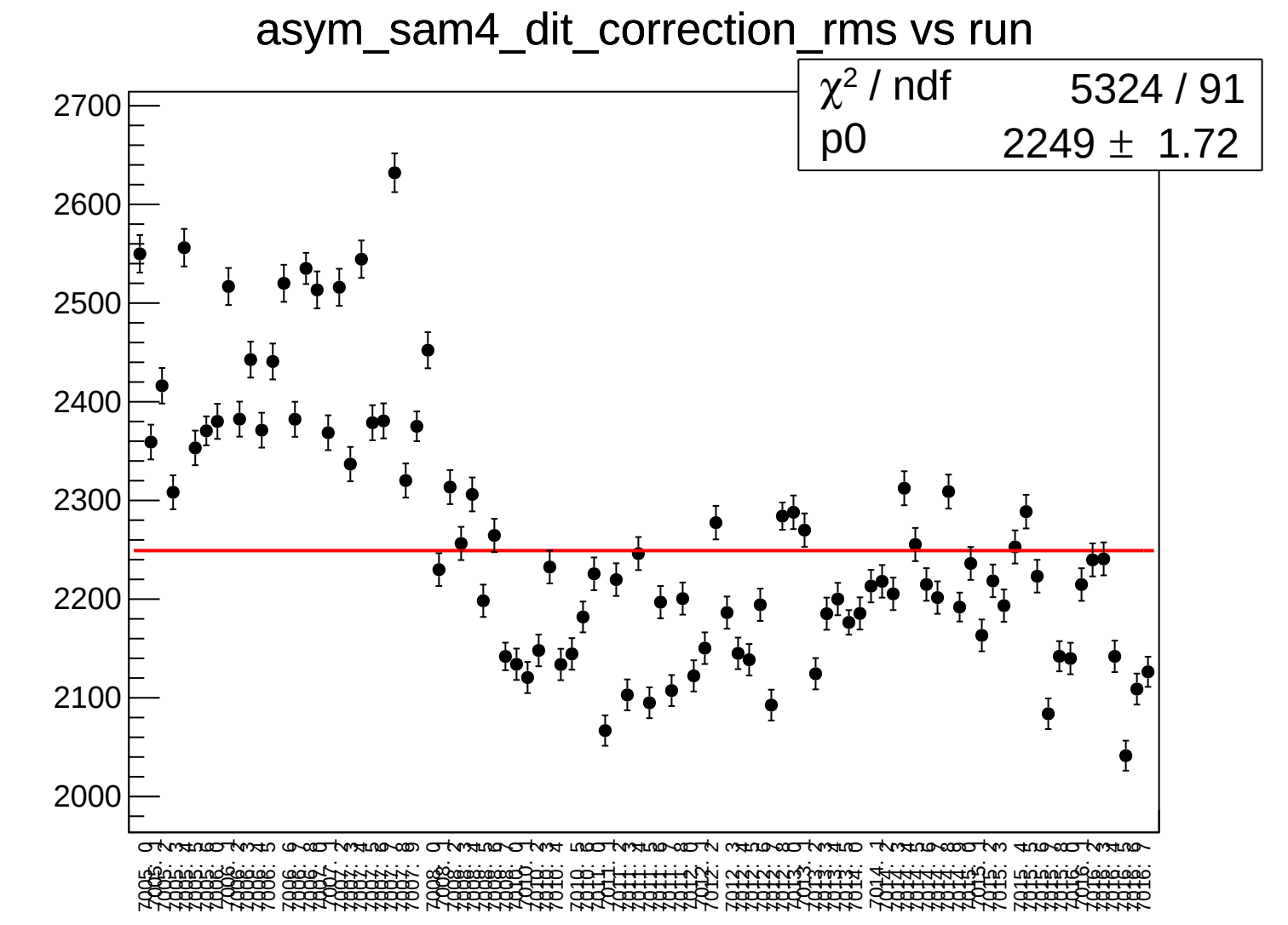

dit_asym_sam4_mean vs run
χ² / ndf 62.19 / 91
p0 53.57 ± 302.9
pull
Entries 92
Mean 404.8
Std Dev 0

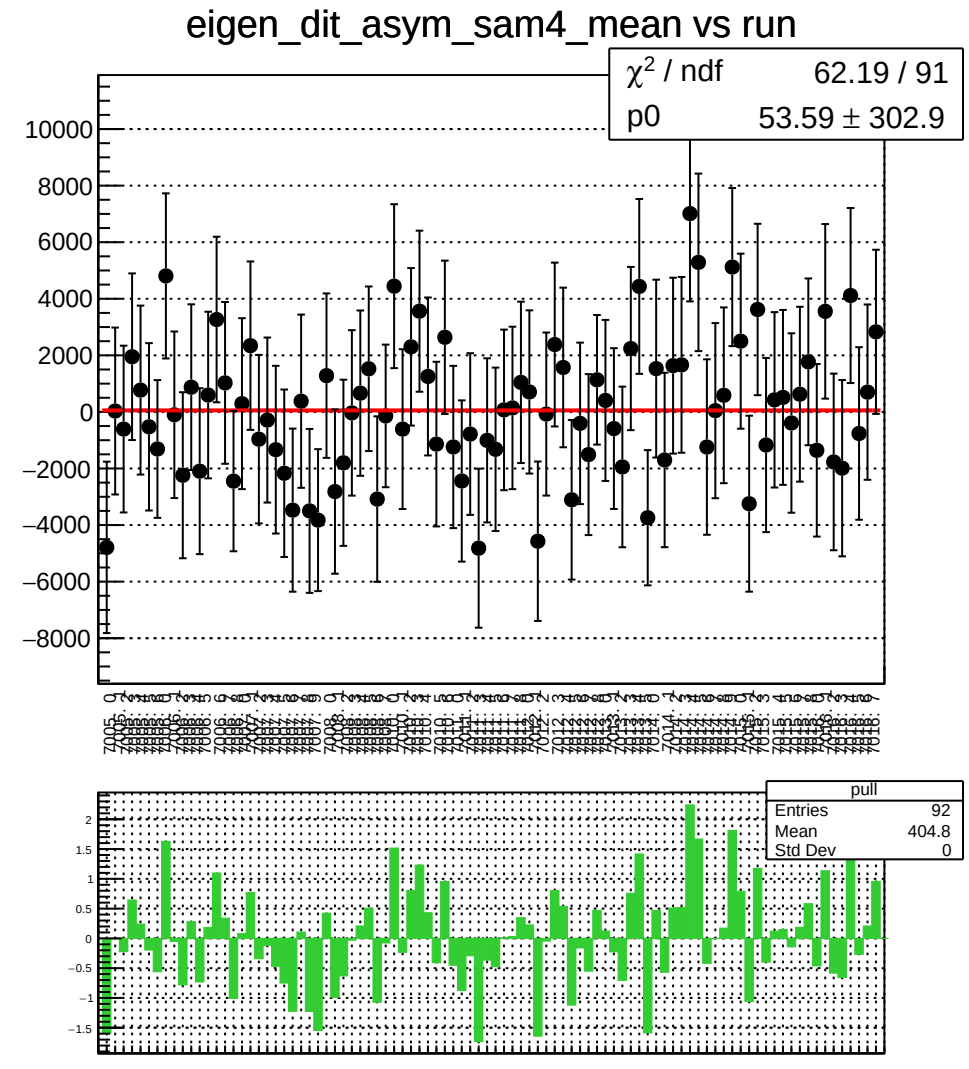

pull1D
Entries 92
Mean 0.01219
Std Dev 0.8221

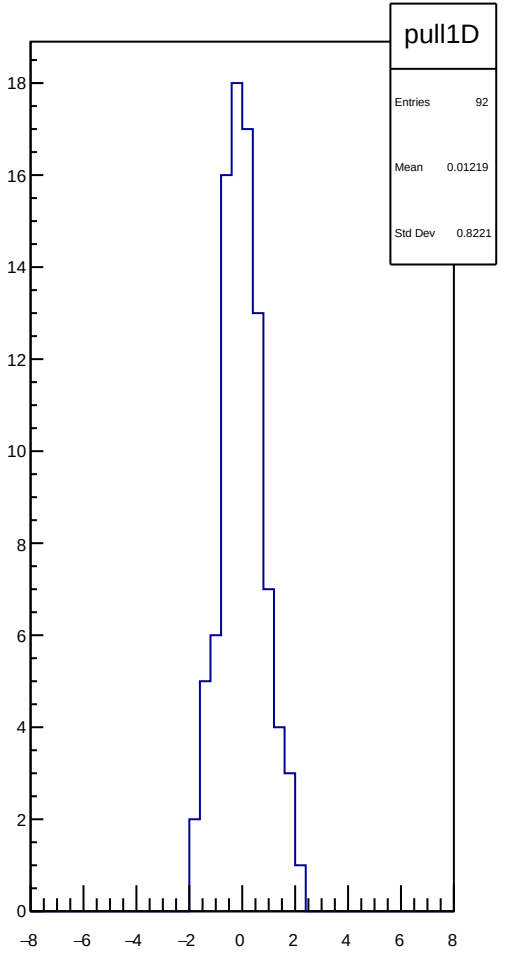

dit_asym_sam4_rms vs run
χ² / ndf 2113 / 91
p0 280.4 ± 0.2142
305
300
295
290
285
280
275
270
265
260

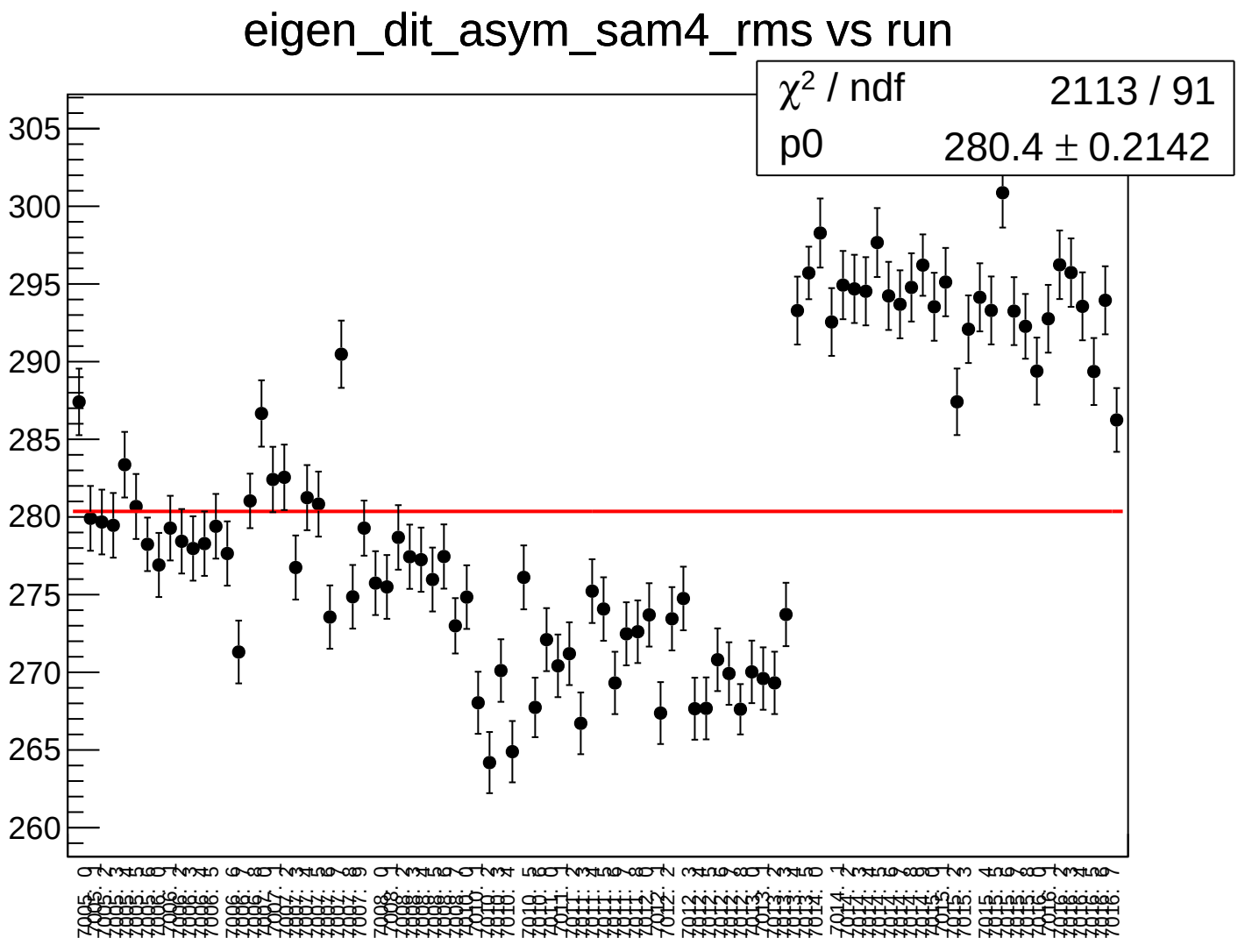

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 87.87 / 91
p0 −2457 ± 2432
pull
Entries 92
Mean 17.13
Std Dev 66.86

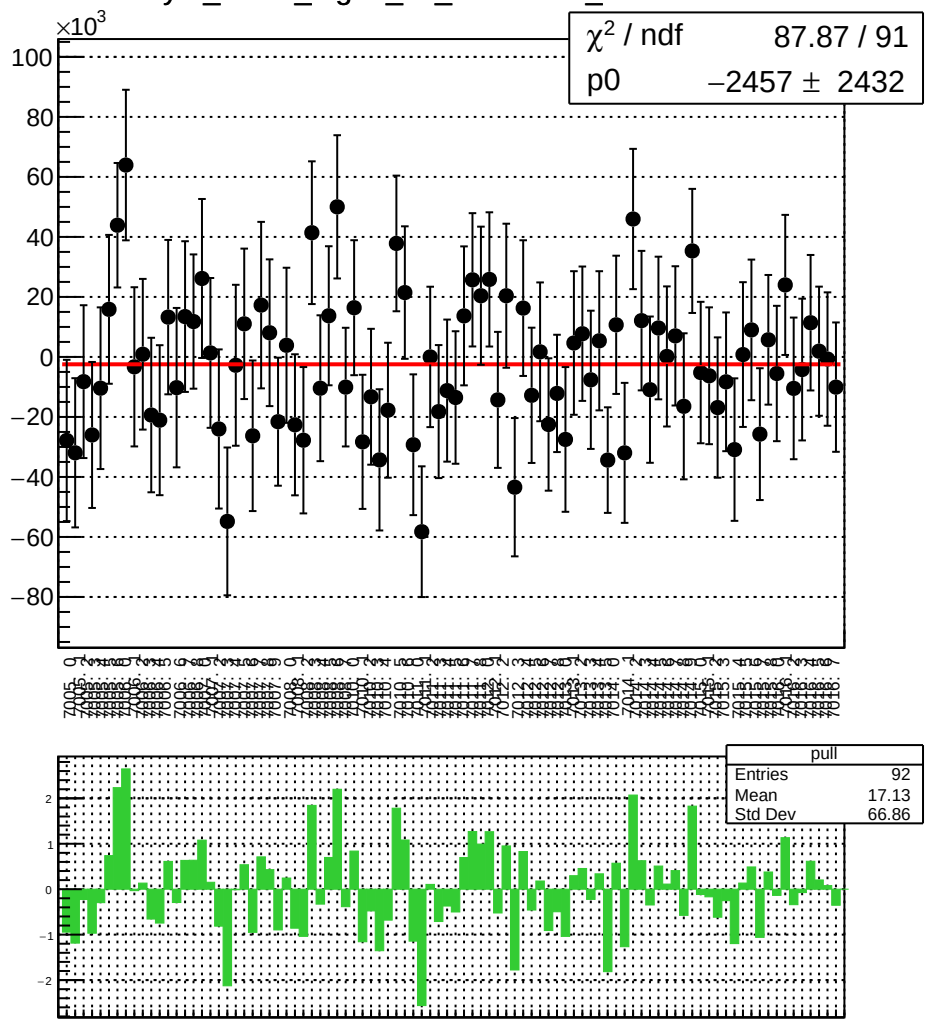

pull1D
Entries 92
Mean 0.003579
Std Dev 0.9773

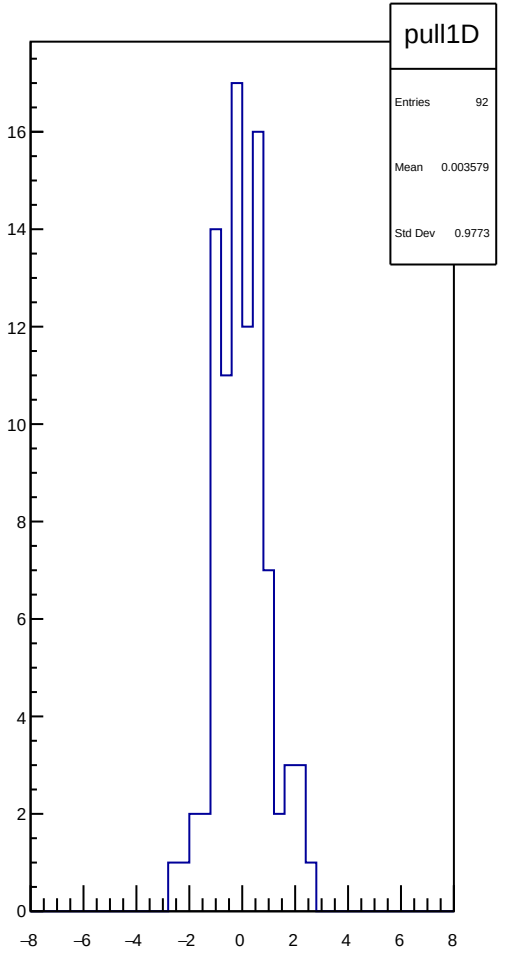

asym_sam4_dit_correction_rms vs run
χ² / ndf 5324 / 91
p0 2249 ± 1.72
2700
2600
2500
2400
2300
2200
2100
2000

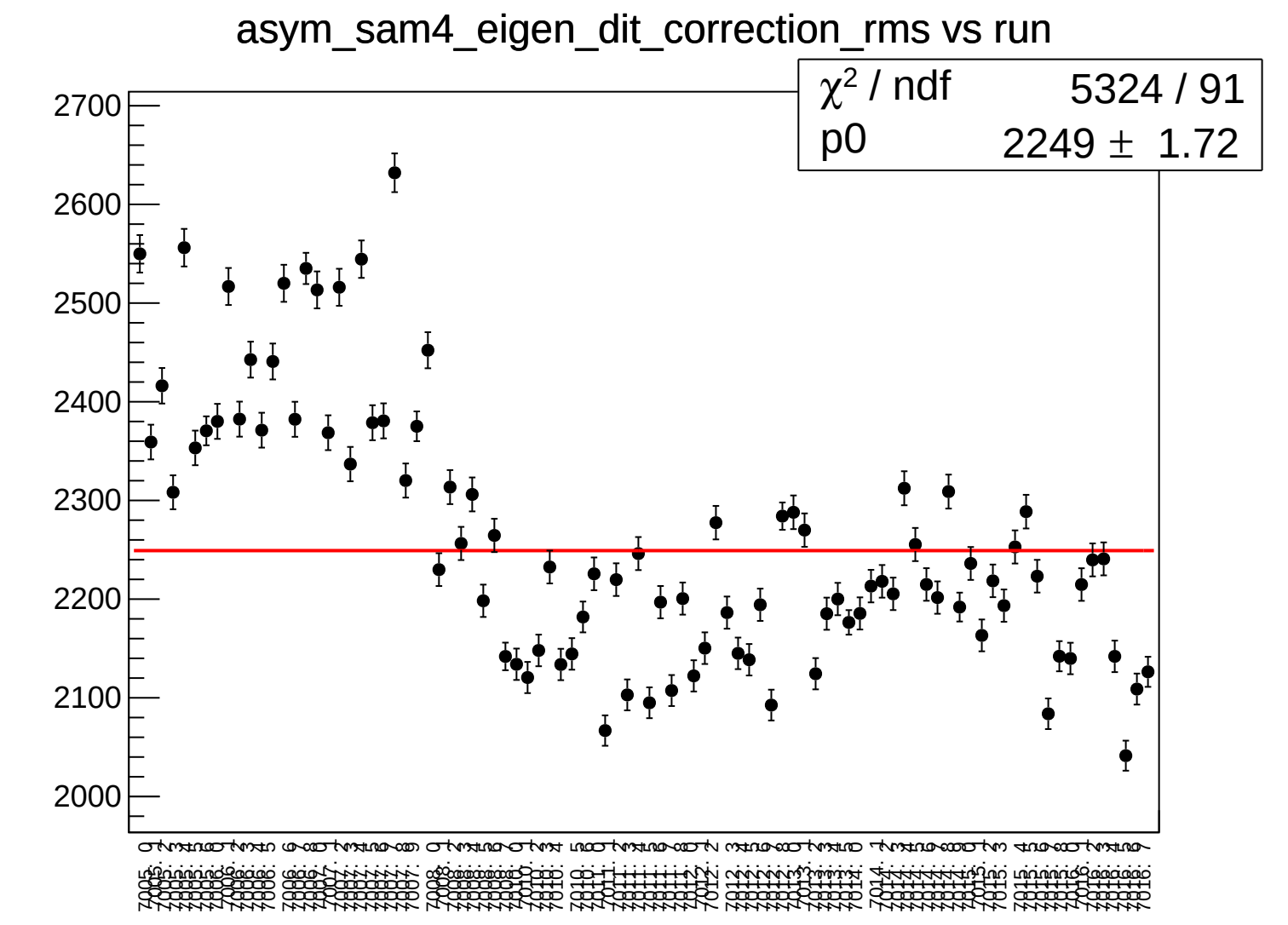

eigen_dit_asym_sam4_mean vs run
$\chi^2$ / ndf 62.19 / 91
p0 53.59 ± 302.9
pull
Entries 92
Mean 404.8
Std Dev 0

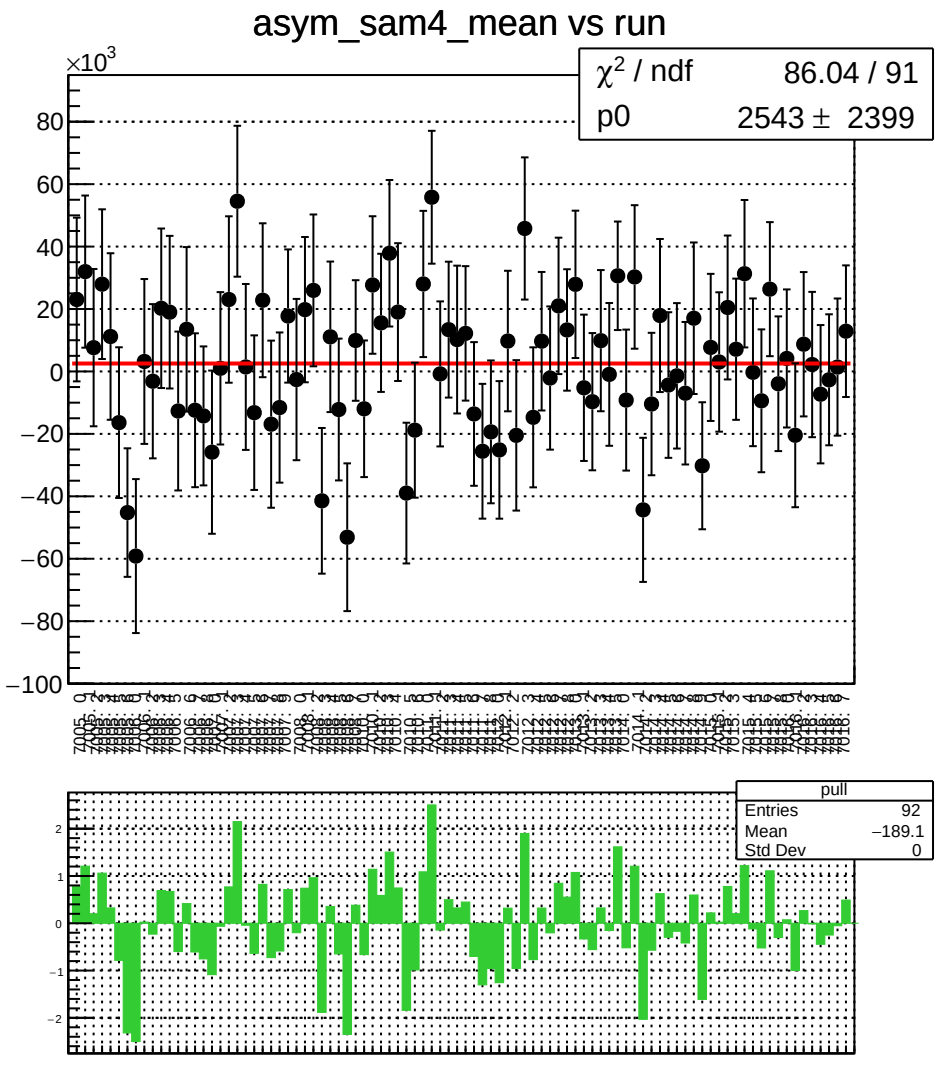

pull1D
Entries 92
Mean 0.01219
Std Dev 0.8221

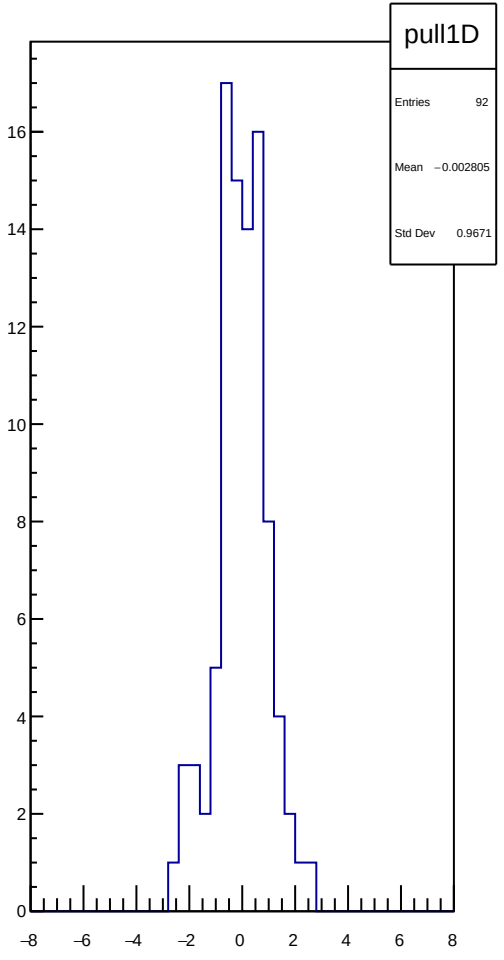

eigen_dit_asym_sam4_rms vs run
χ² / ndf 2113 / 91
p0 280.4 ± 0.2142
305
300
295
290
285
280
275
270
265
260

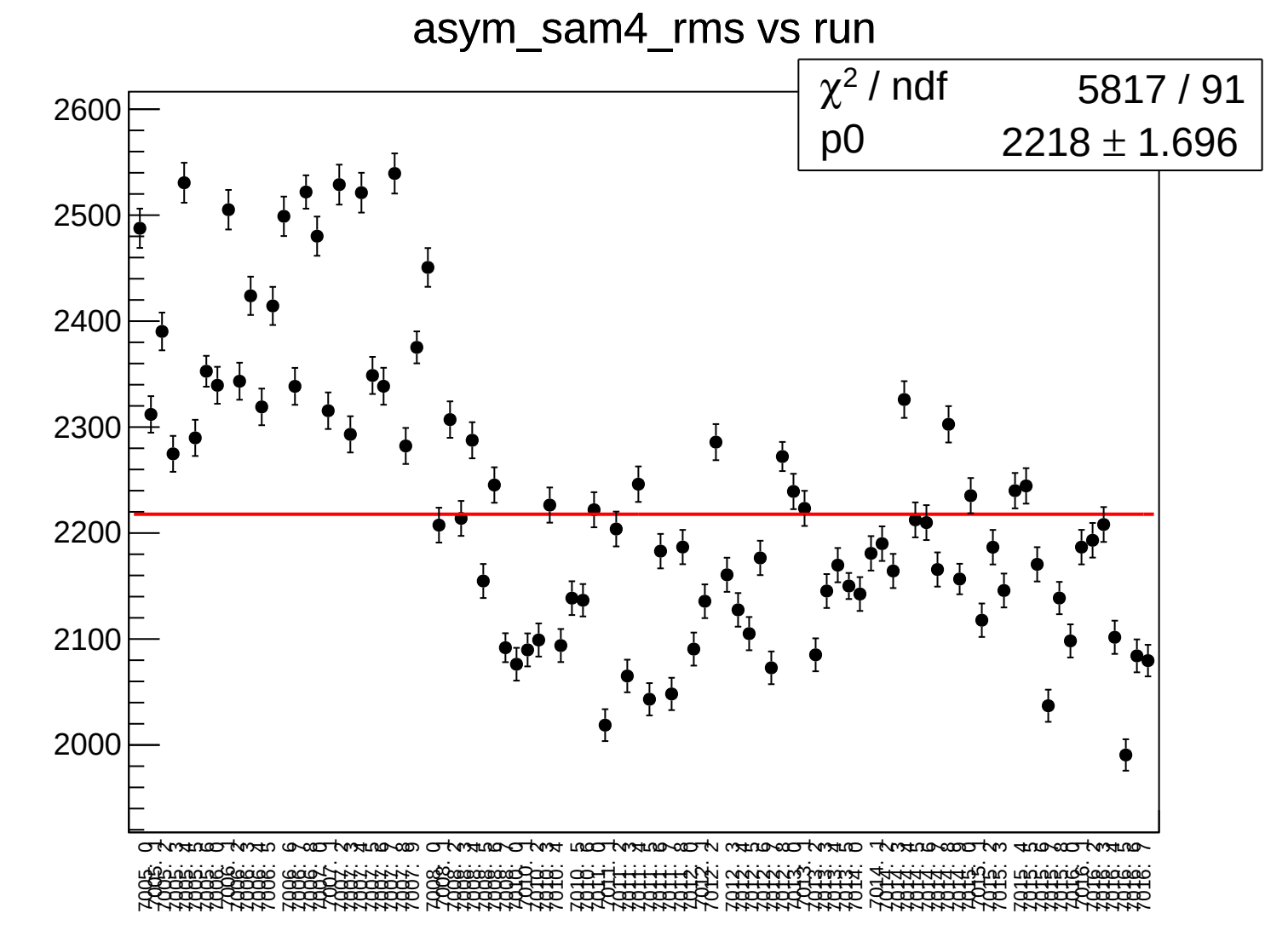

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.87 / 91
p0 −2457 ± 2432
pull
Entries 92
Mean 17.13
Std Dev 66.86

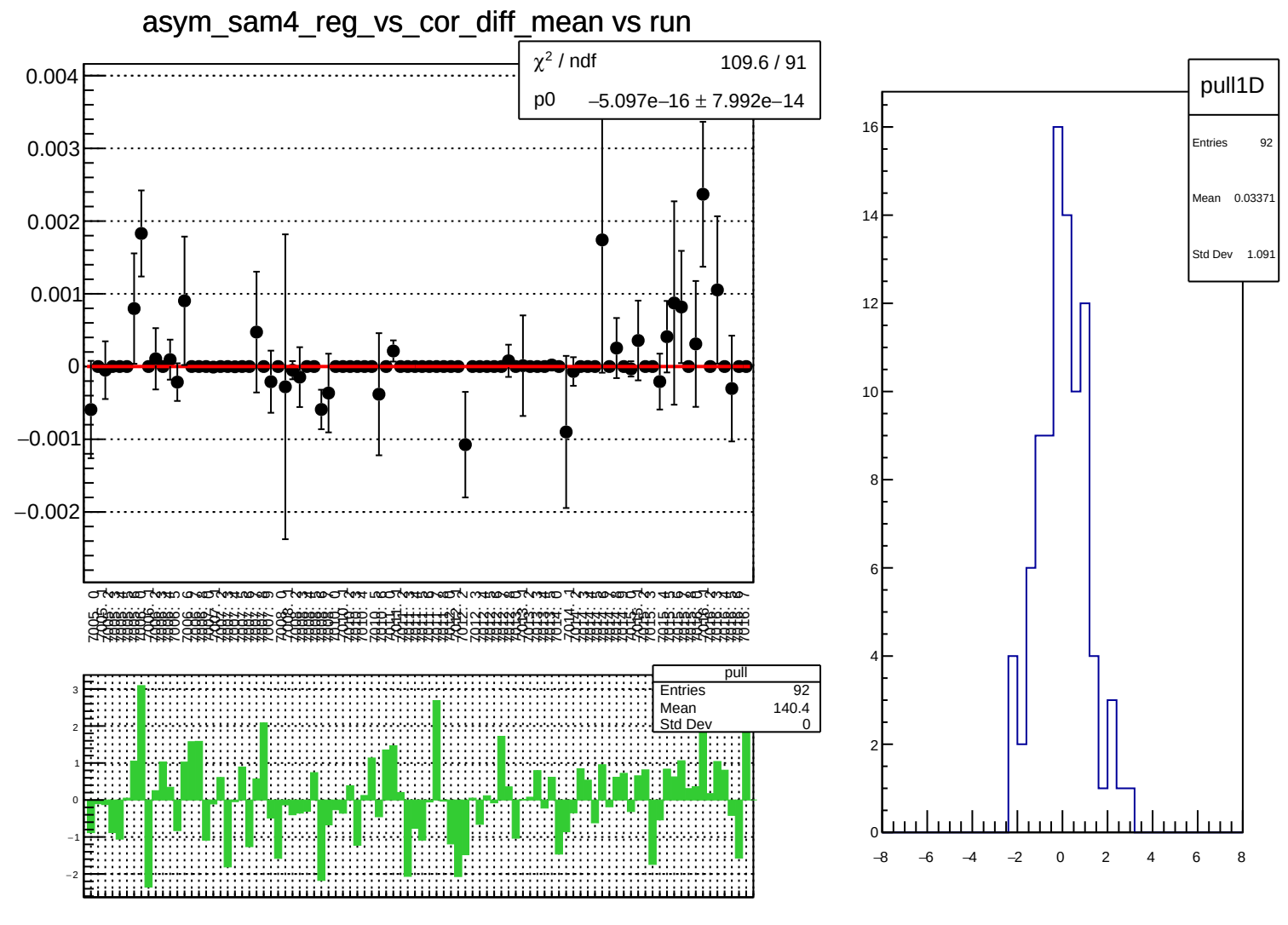

pull1D
Entries 92
Mean 0.003579
Std Dev 0.9773

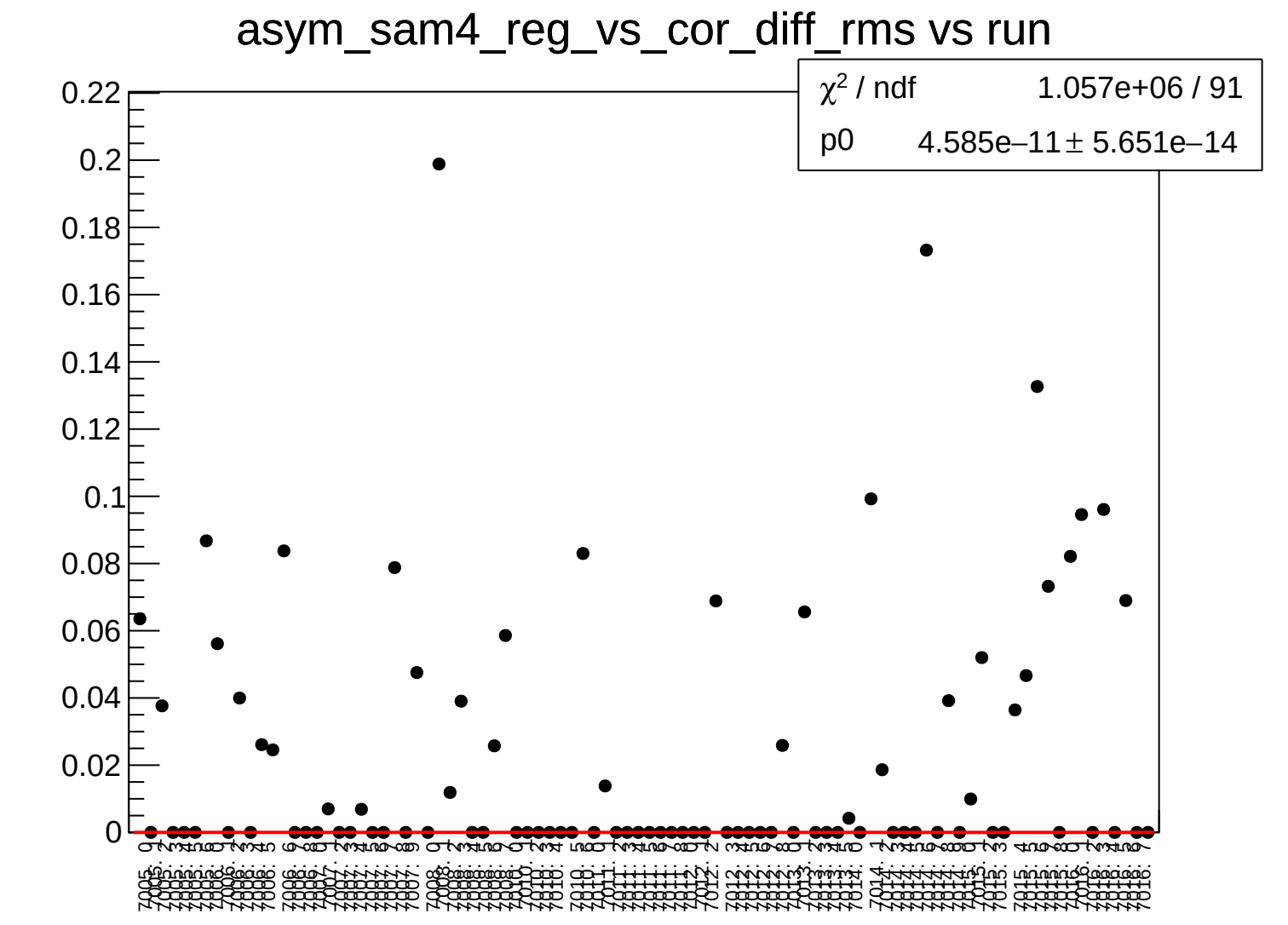

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 5324 / 91
p0 2249 ± 1.72
2700
2600
2500
2400
2300
2200
2100
2000

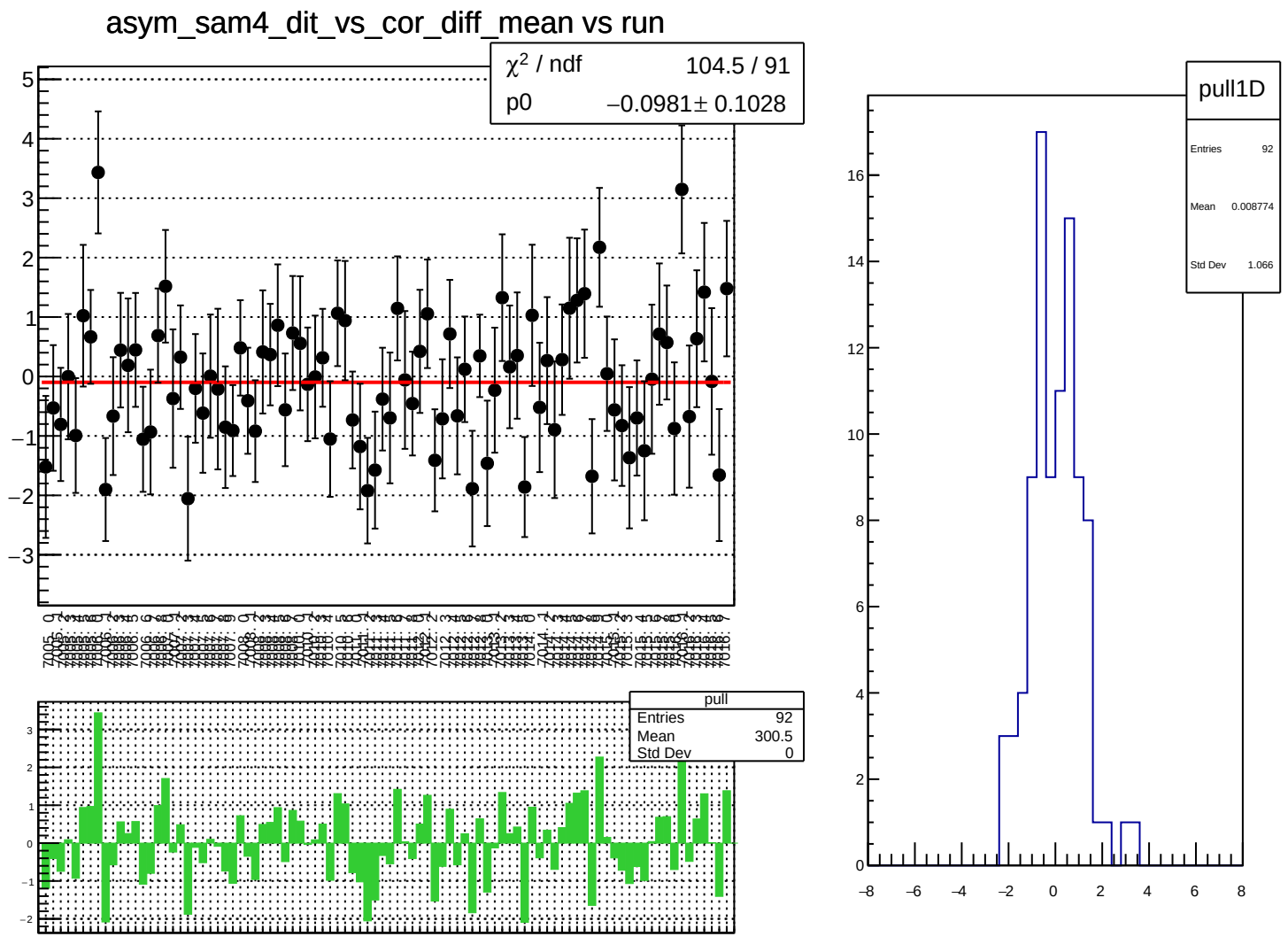

asym_sam4_mean vs run
×10^3
χ^2 / ndf 86.04 / 91
p0 2543 ± 2399
pull
Entries 92
Mean −189.1
Std Dev 0

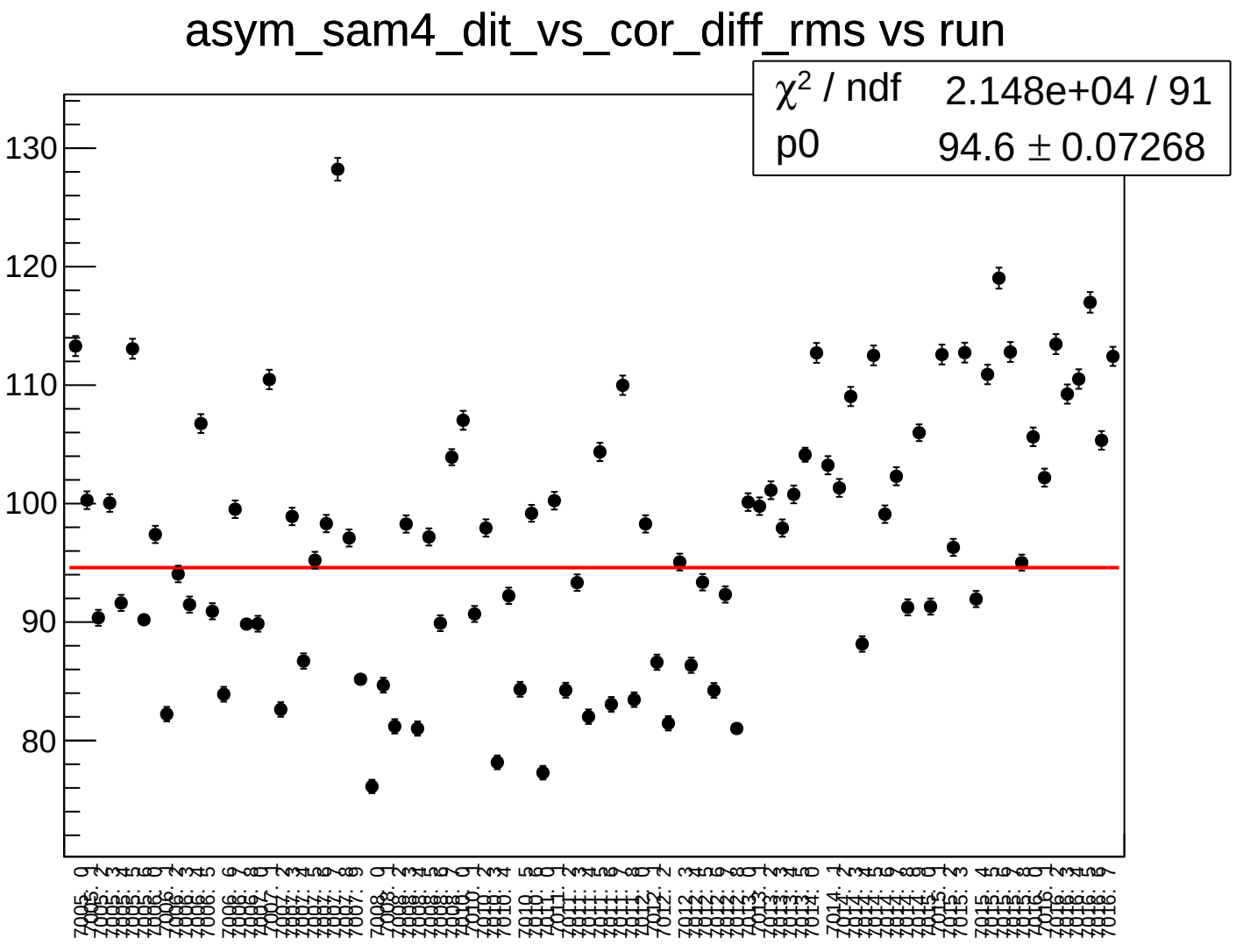

pull1D
Entries 92
Mean −0.002805
Std Dev 0.9671

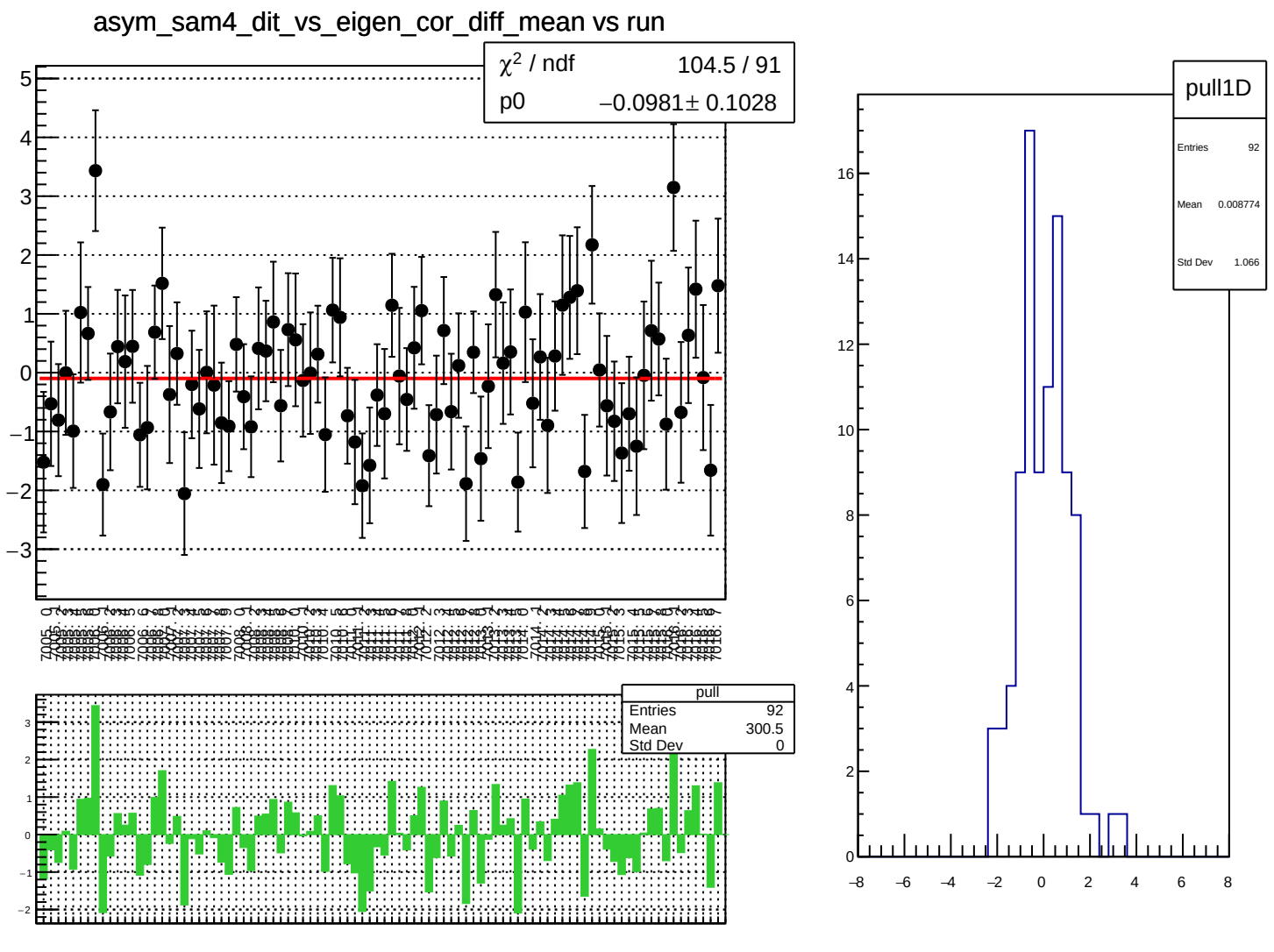

asym_sam4_rms vs run
$\chi^2$ / ndf 5817 / 91
p0 2218 ± 1.696
2600
2500
2400
2300
2200
2100
2000

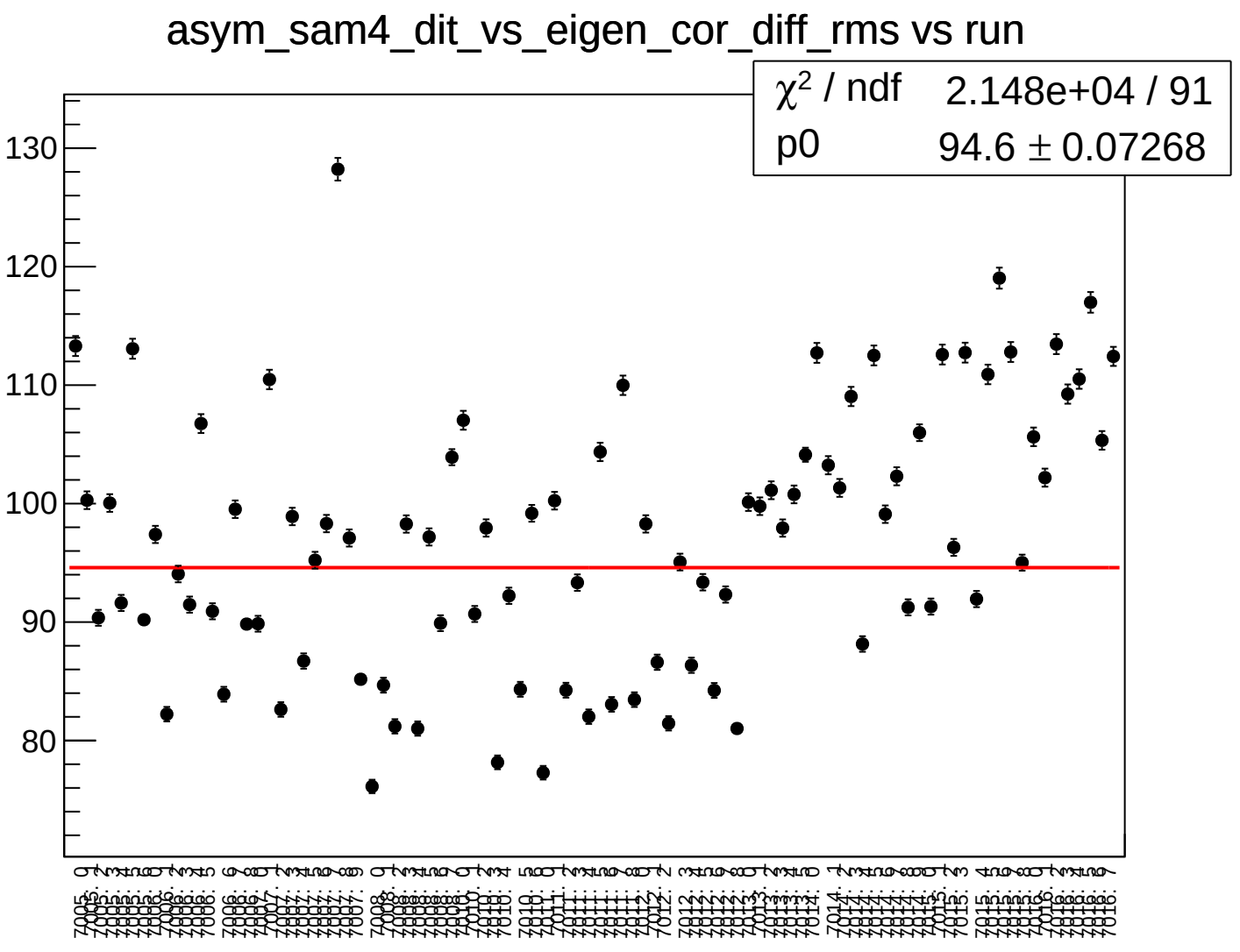

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 91
p0 −5.097e−16 ± 7.992e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 92
Mean 140.4
Std Dev 0
pull1D
Entries 92
Mean 0.03371
Std Dev 1.091

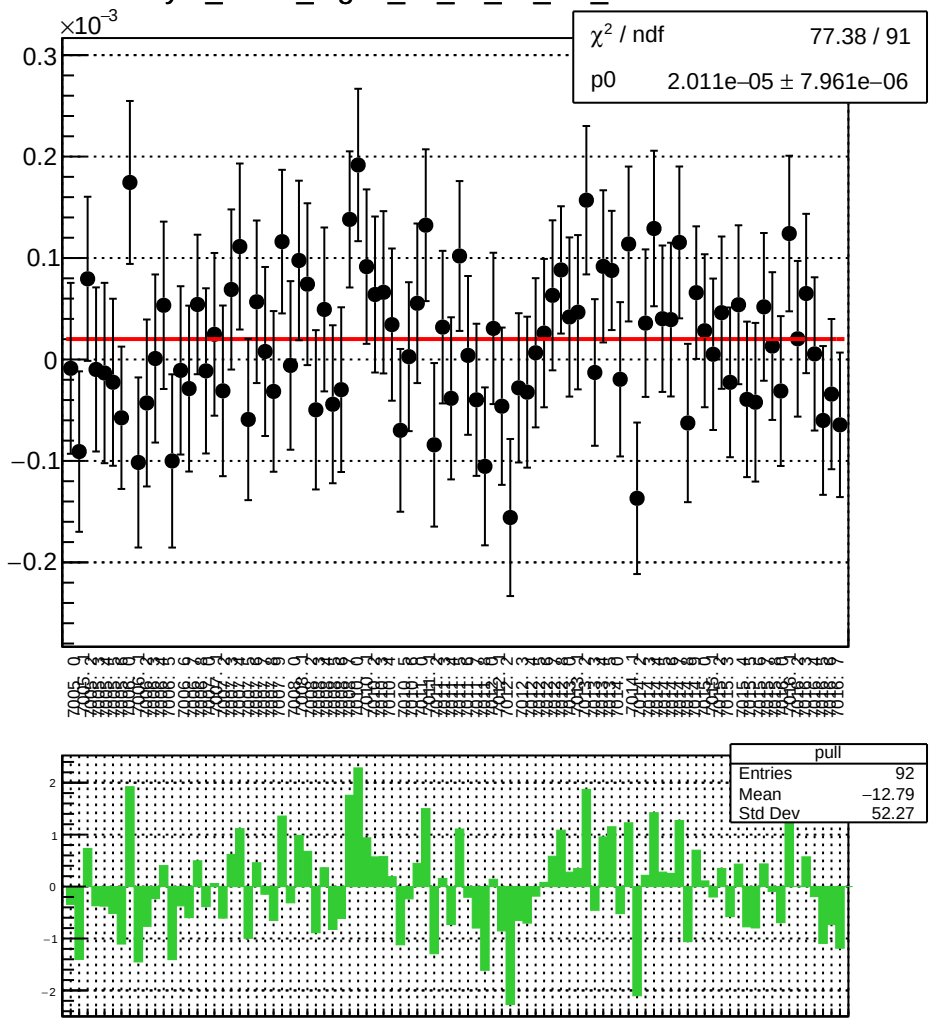

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 91
p0 4.585e−11 ± 5.651e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

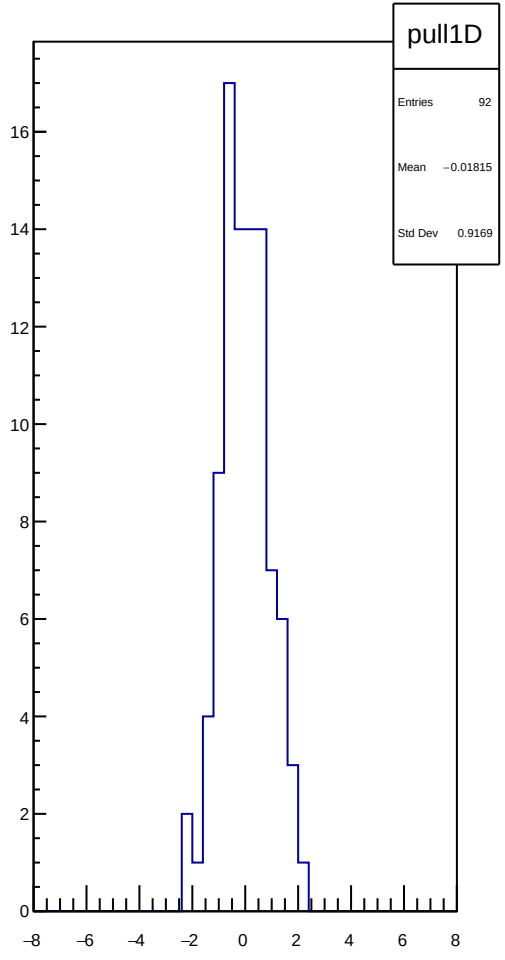

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 91
p0 −0.0981± 0.1028
pull
Entries 92
Mean 300.5
Std Dev 0
pull1D
Entries 92
Mean 0.008774
Std Dev 1.066

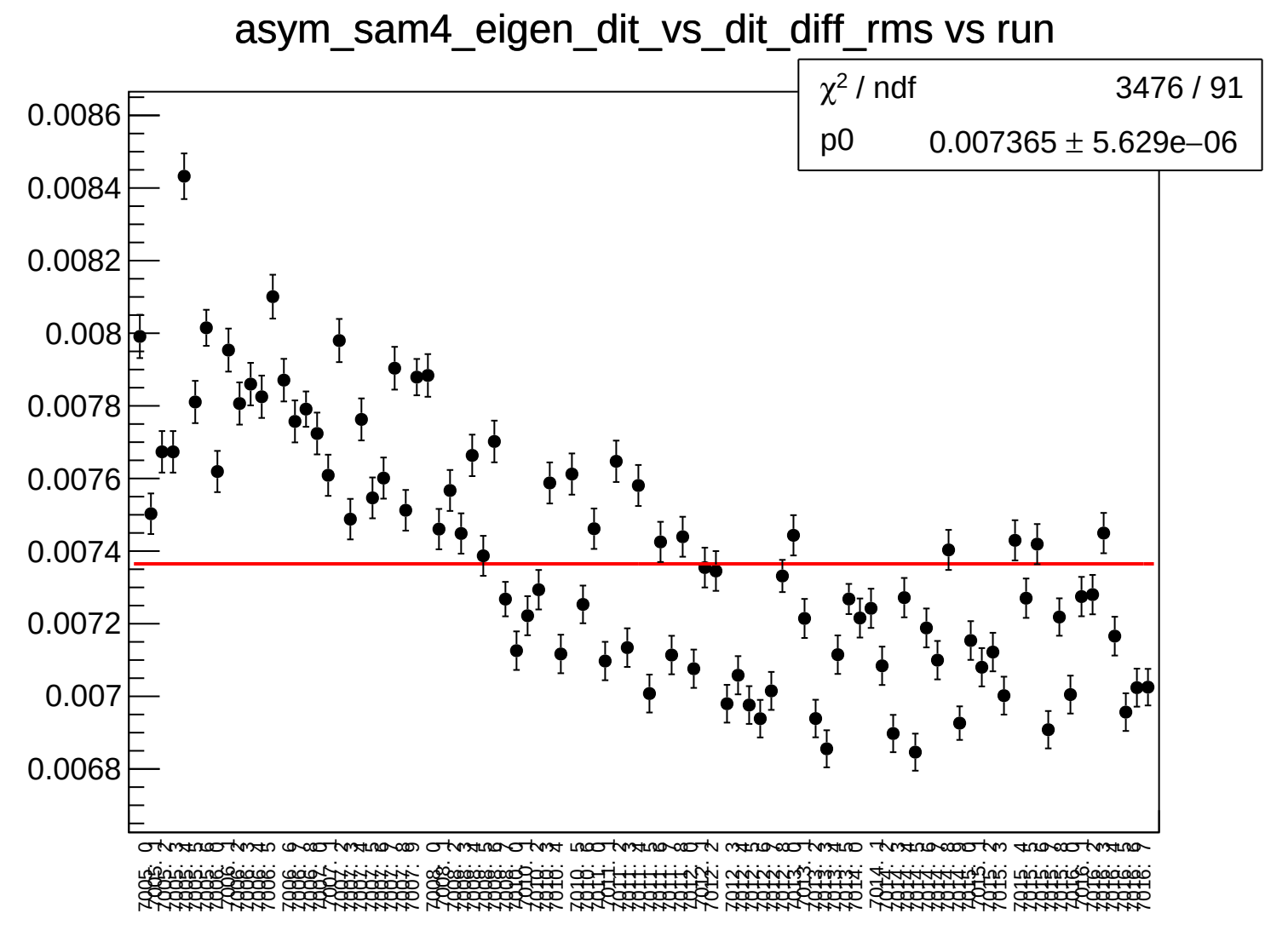

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 2.148e+04 / 91
p0 94.6 ± 0.07268
130
120
110
100
90
80

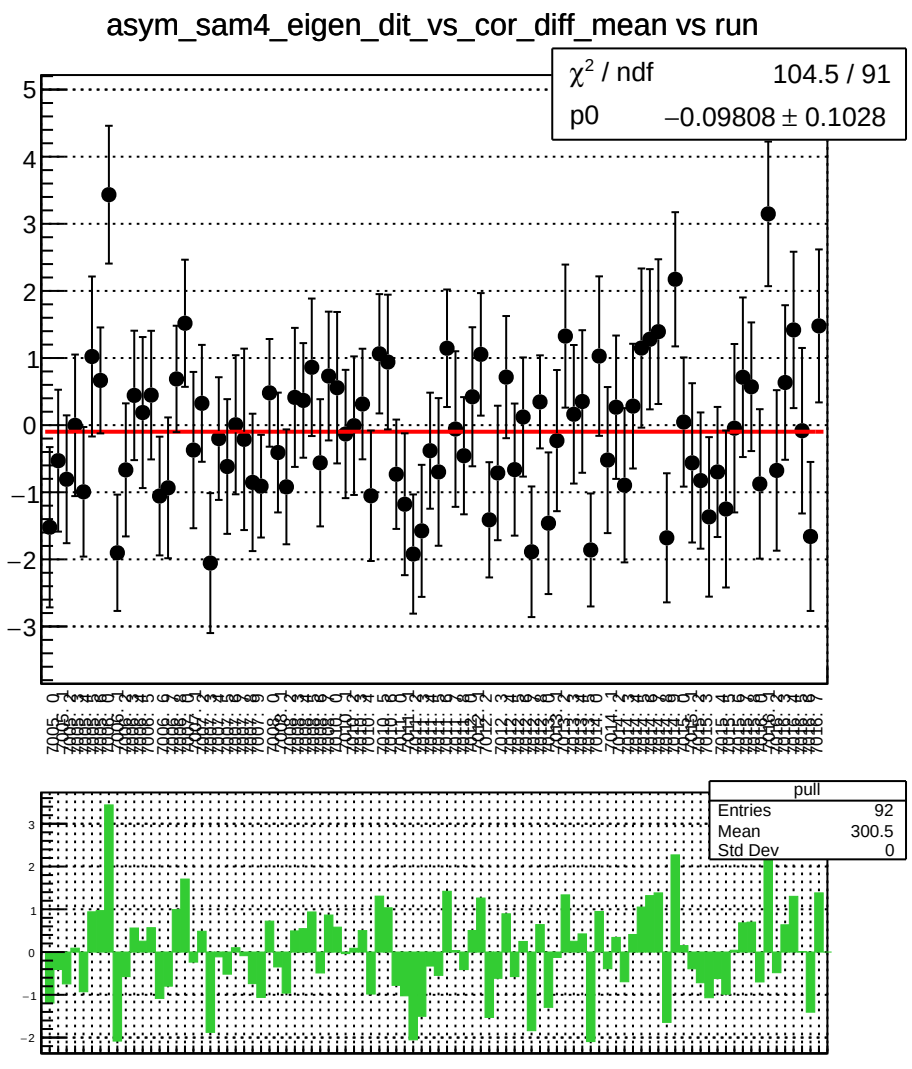

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 91
p0 −0.0981± 0.1028
pull
Entries 92
Mean 300.5
Std Dev 0
pull1D
Entries 92
Mean 0.008774
Std Dev 1.066

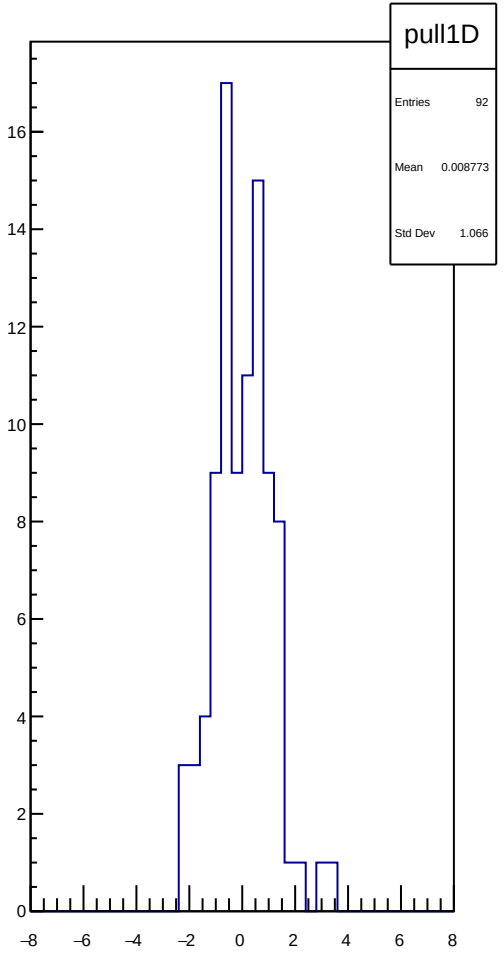

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.148e+04 / 91
p0 94.6 ± 0.07268
130
120
110
100
90
80

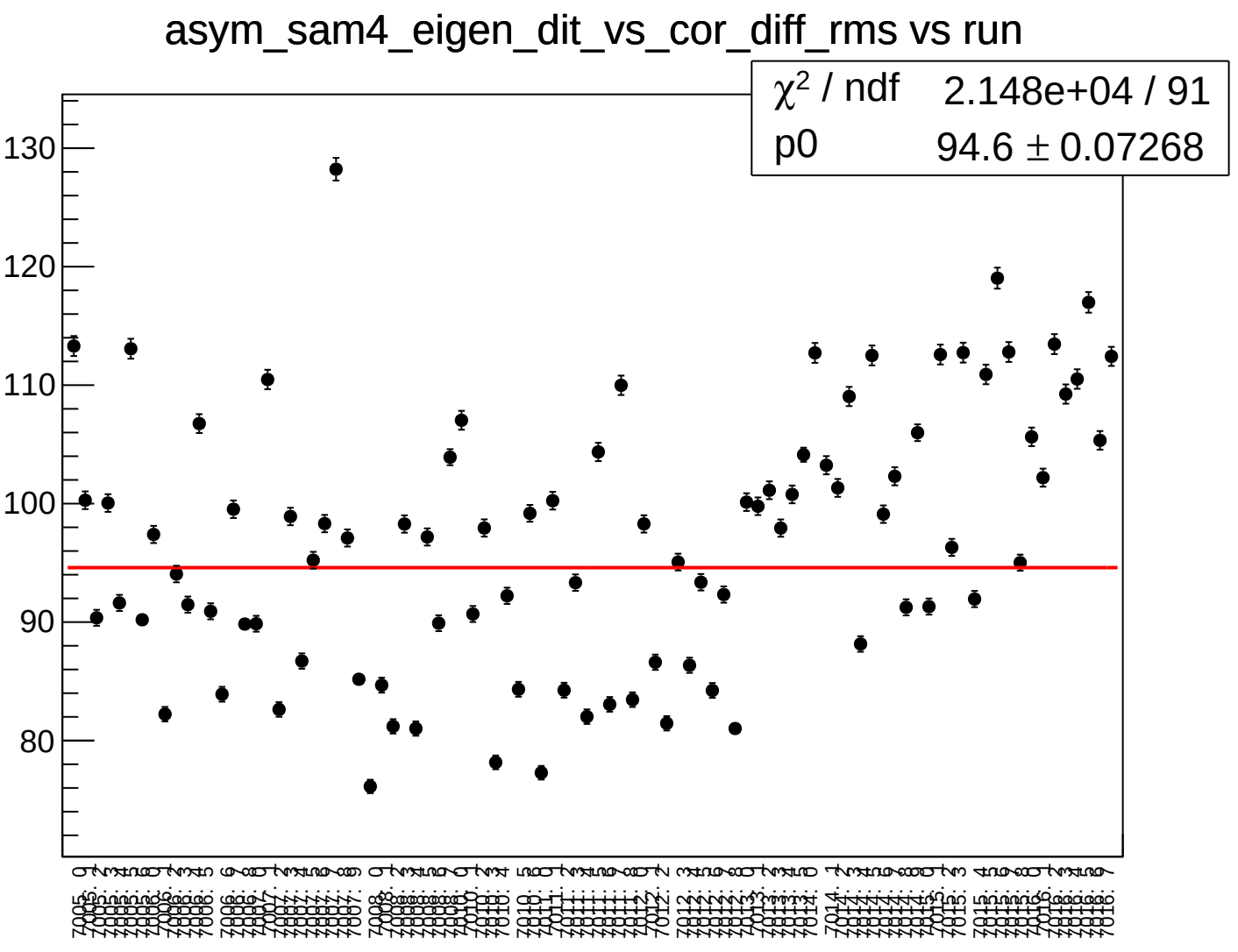

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.38 / 91
p0 2.011e−05 ± 7.961e−06
pull
Entries 92
Mean −12.79
Std Dev 52.27

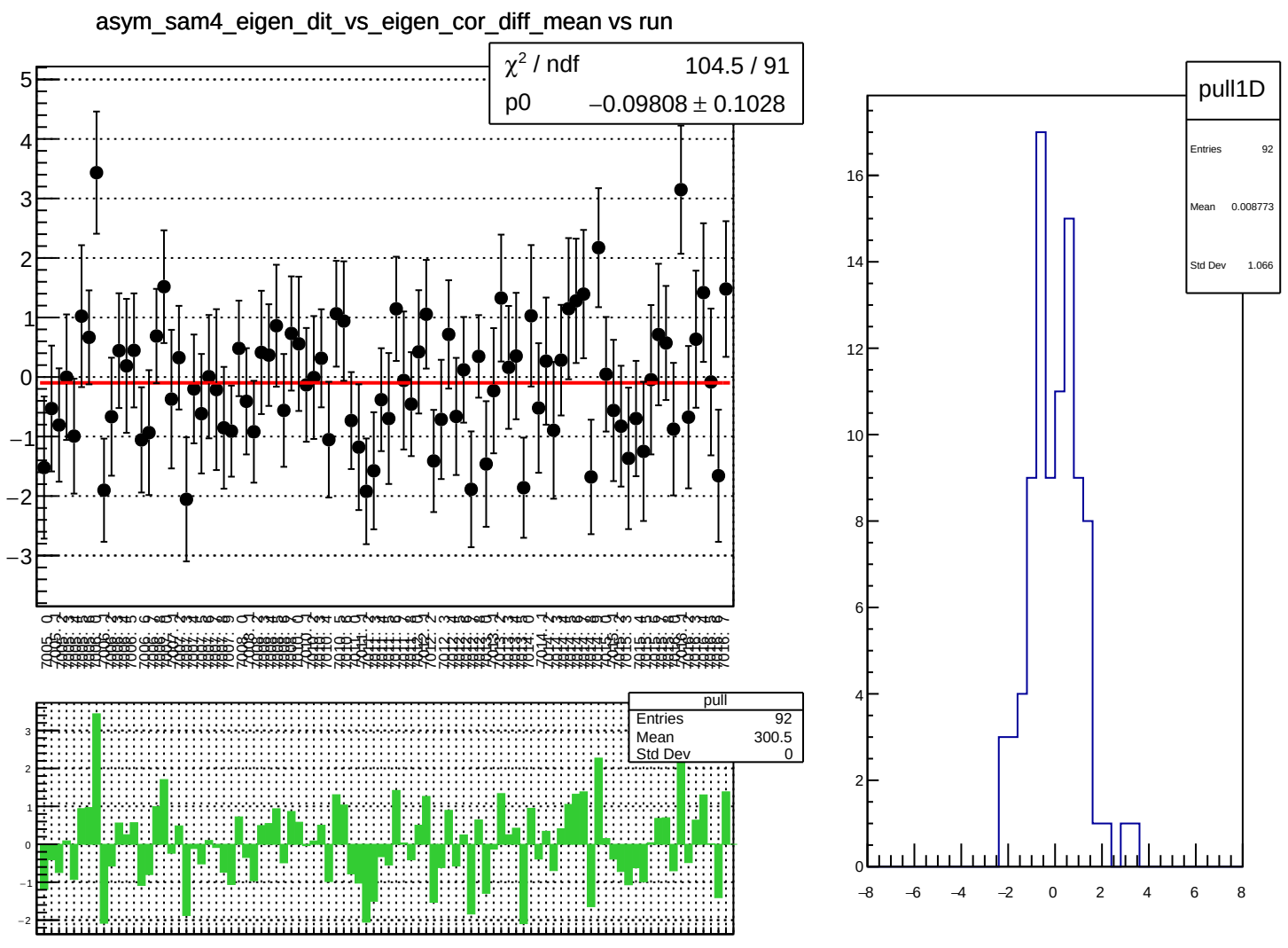

pull1D
Entries 92
Mean −0.01815
Std Dev 0.9169

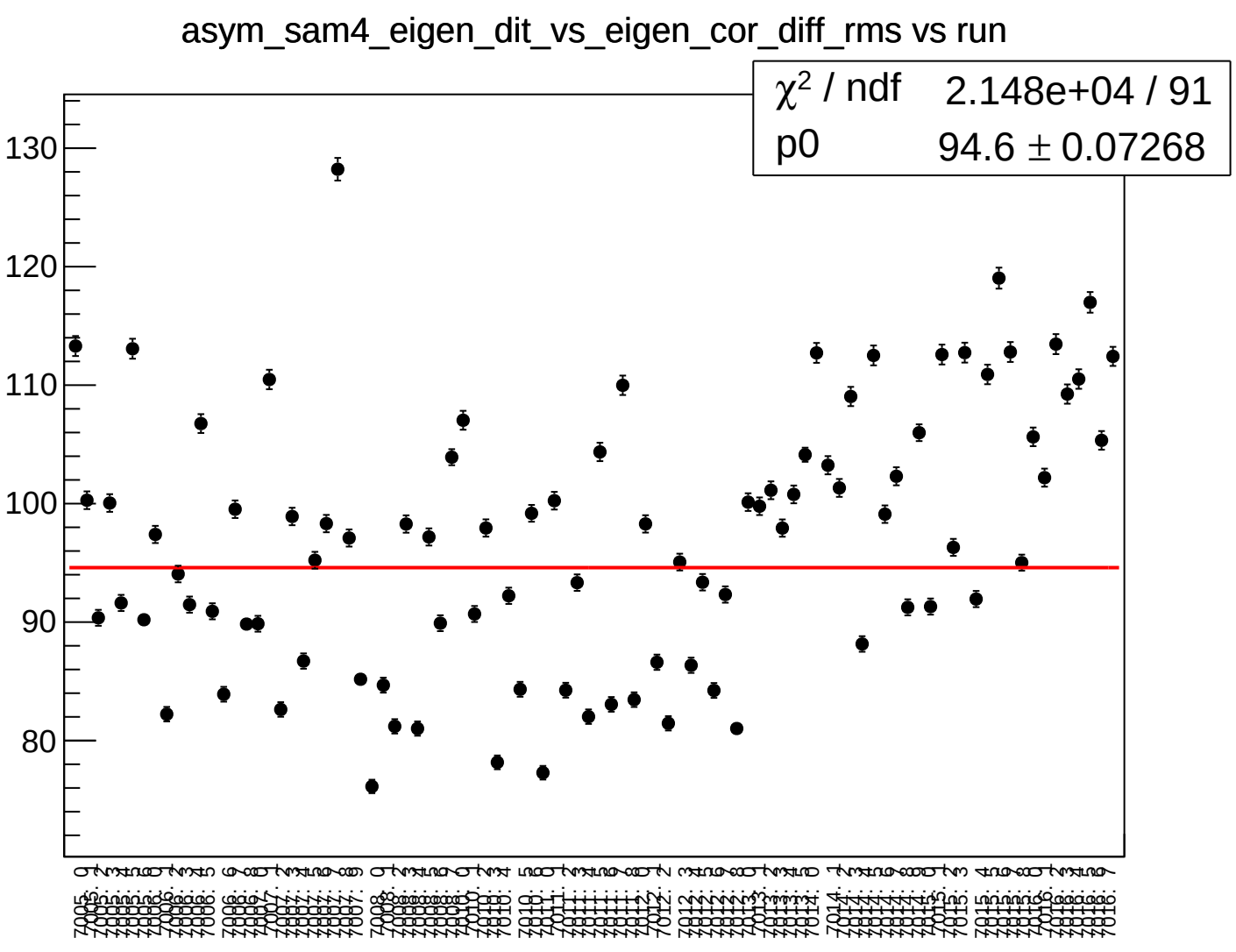

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3476 / 91
p0 0.007365 ± 5.629e−06
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068

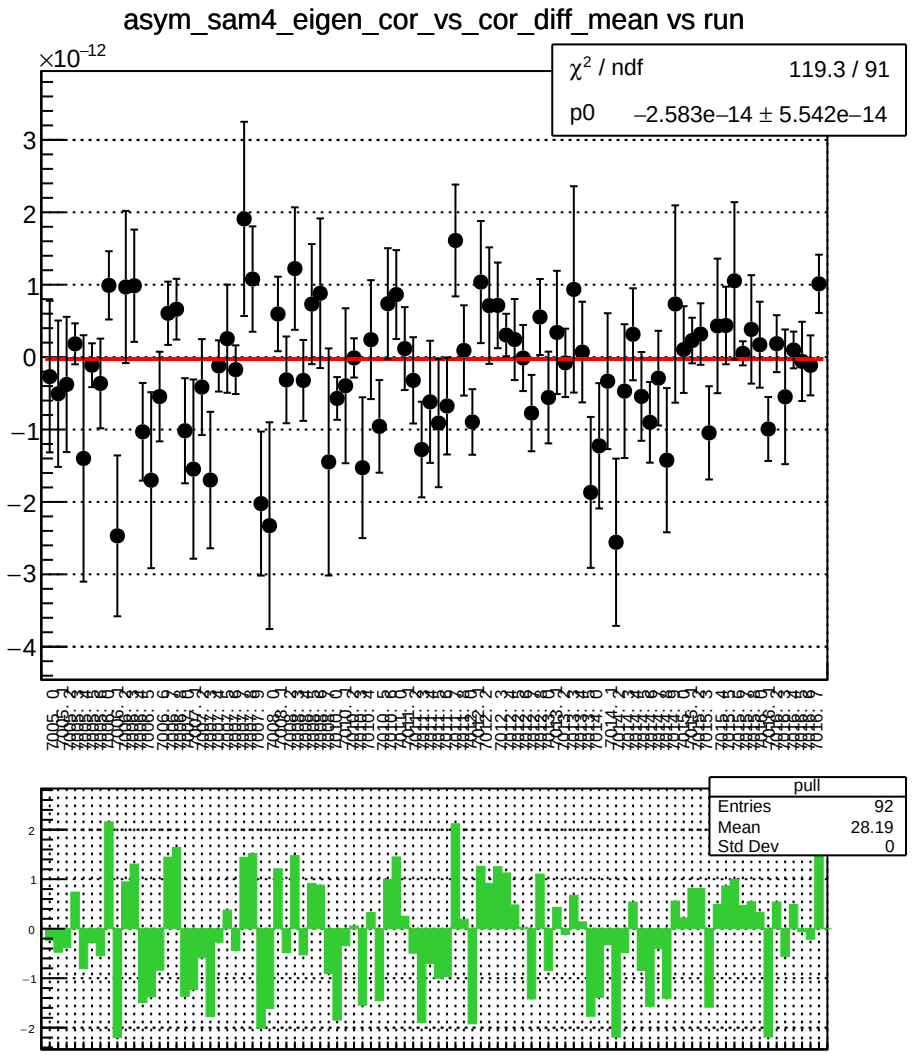

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 91
p0 −0.09808 ± 0.1028
pull
Entries 92
Mean 300.5
Std Dev 0

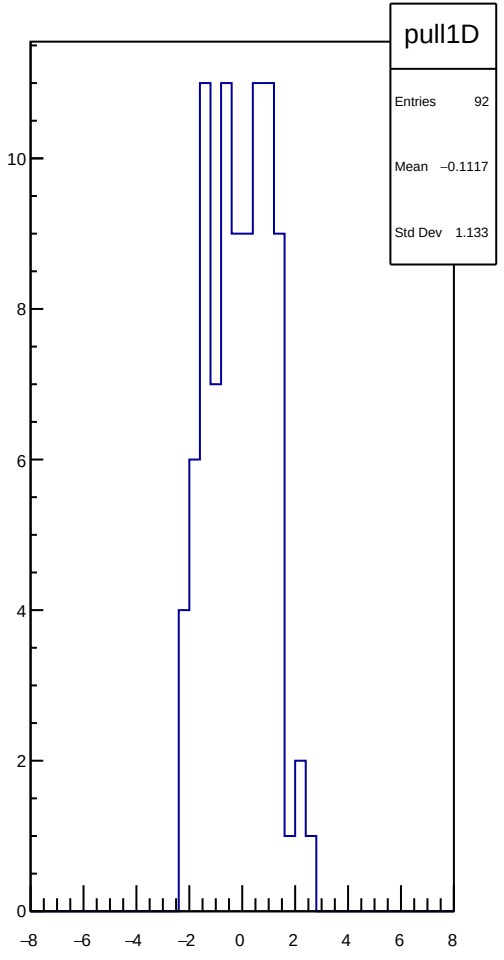

pull1D
Entries 92
Mean 0.008773
Std Dev 1.066

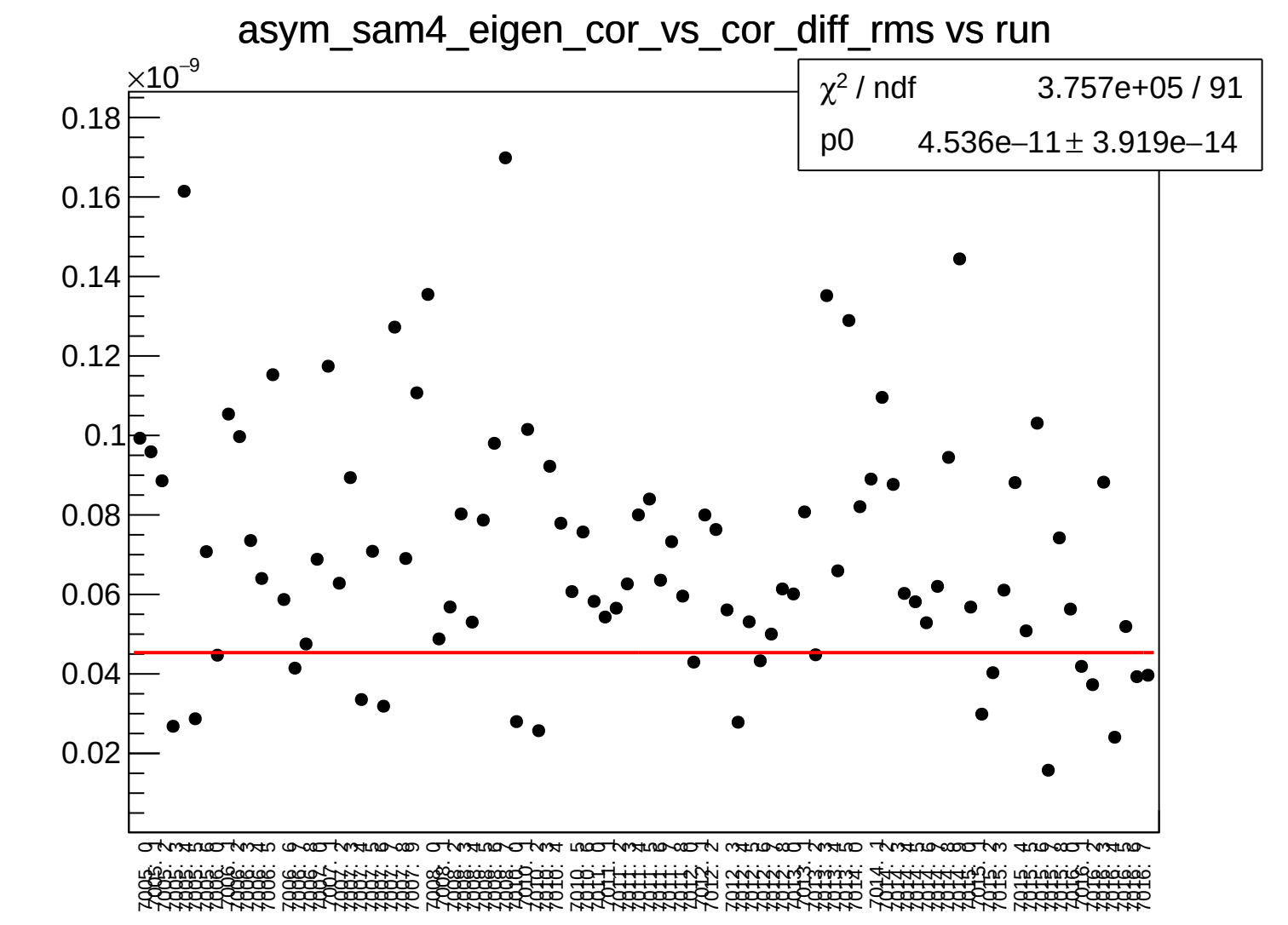

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.148e+04 / 91
p0 94.6 ± 0.07268
130
120
110
100
90
80

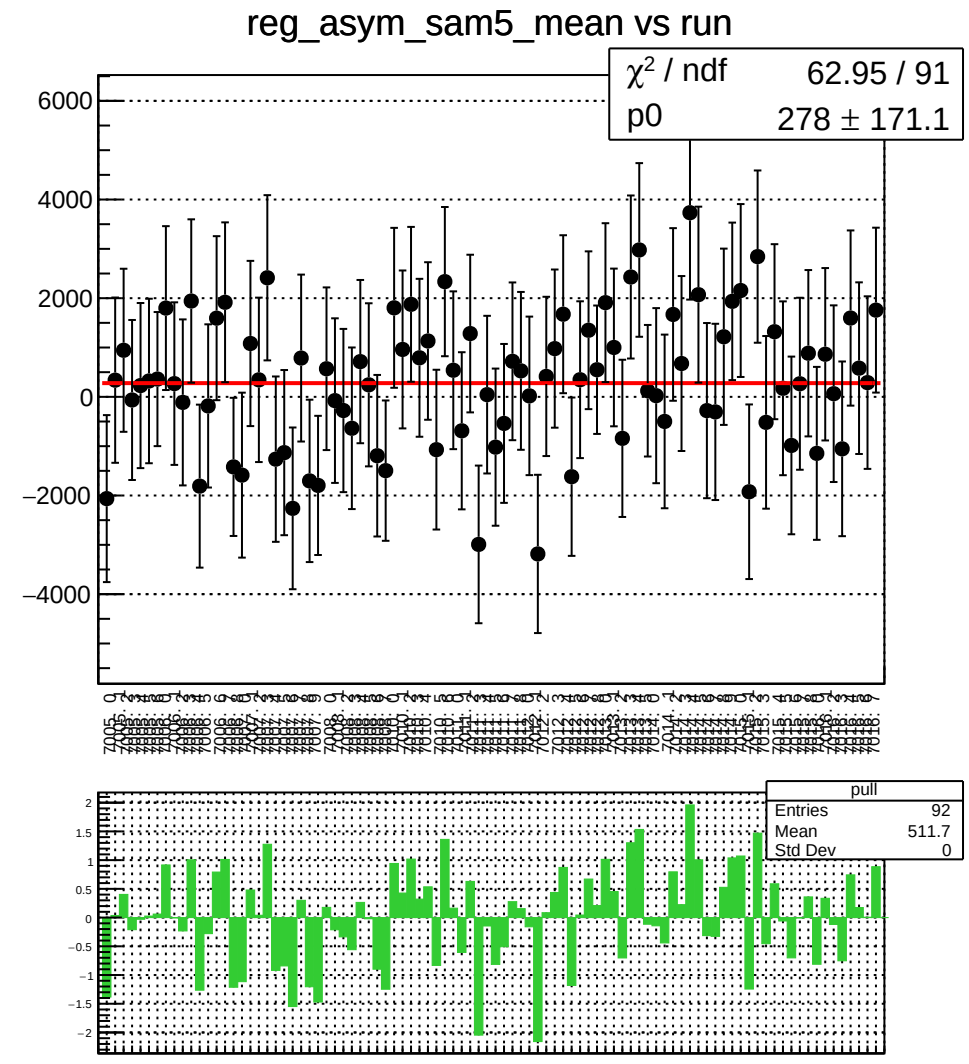

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 91
p0 −0.09808 ± 0.1028
pull
Entries 92
Mean 300.5
Std Dev 0
pull1D
Entries 92
Mean 0.008773
Std Dev 1.066

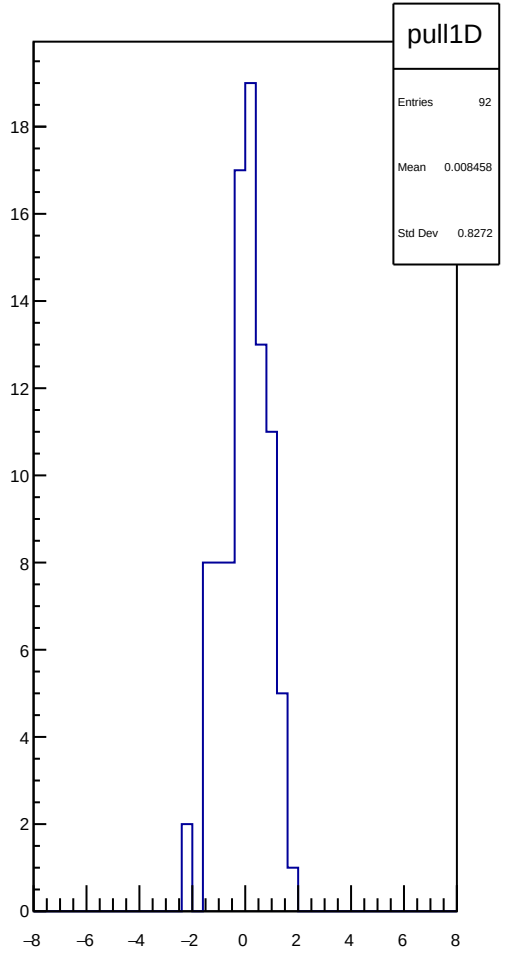

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.148e+04 / 91
p0 94.6 ± 0.07268
130
120
110
100
90
80

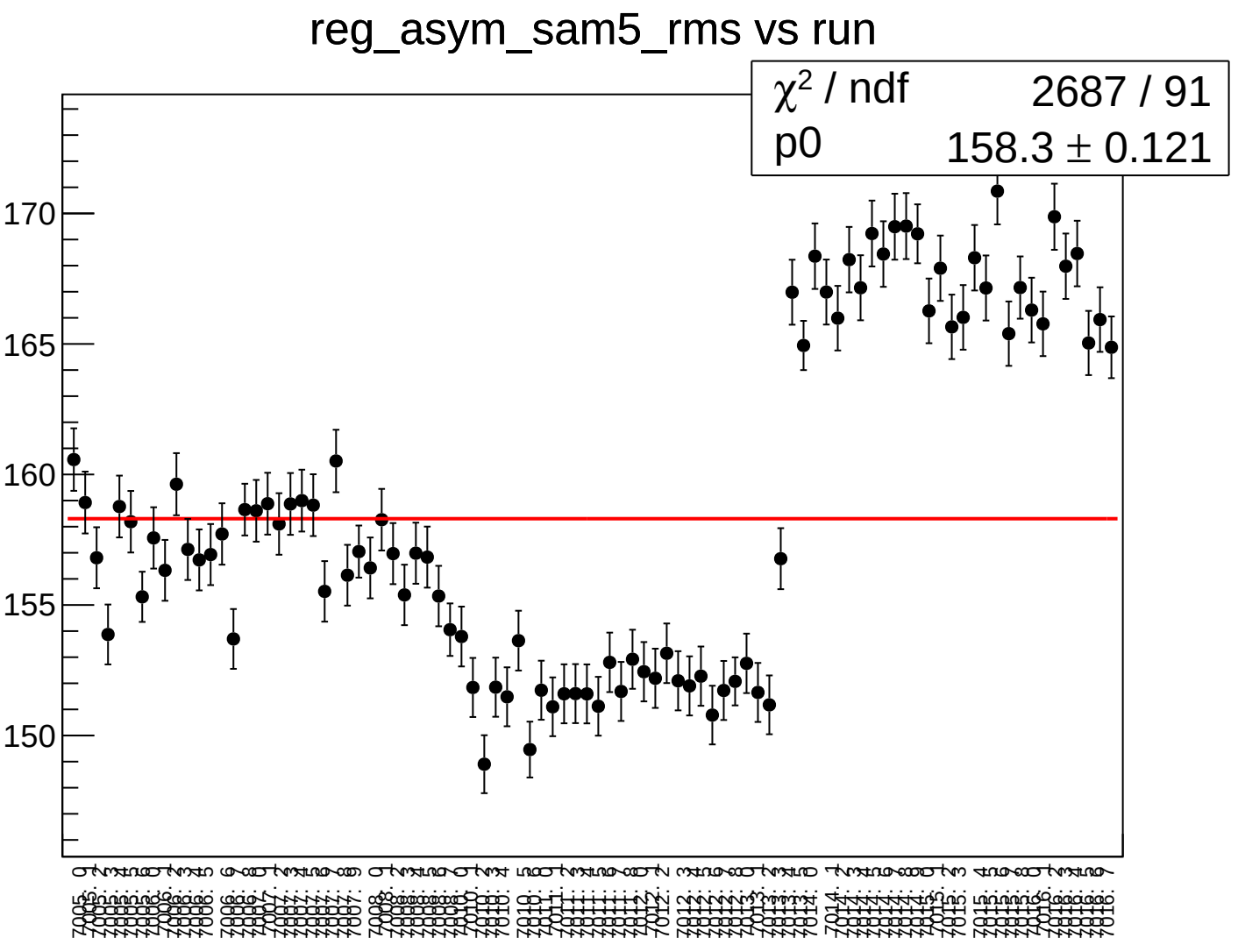

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 119.3 / 91
p0 −2.583e−14 ± 5.542e−14
pull
Entries 92
Mean 28.19
Std Dev 0

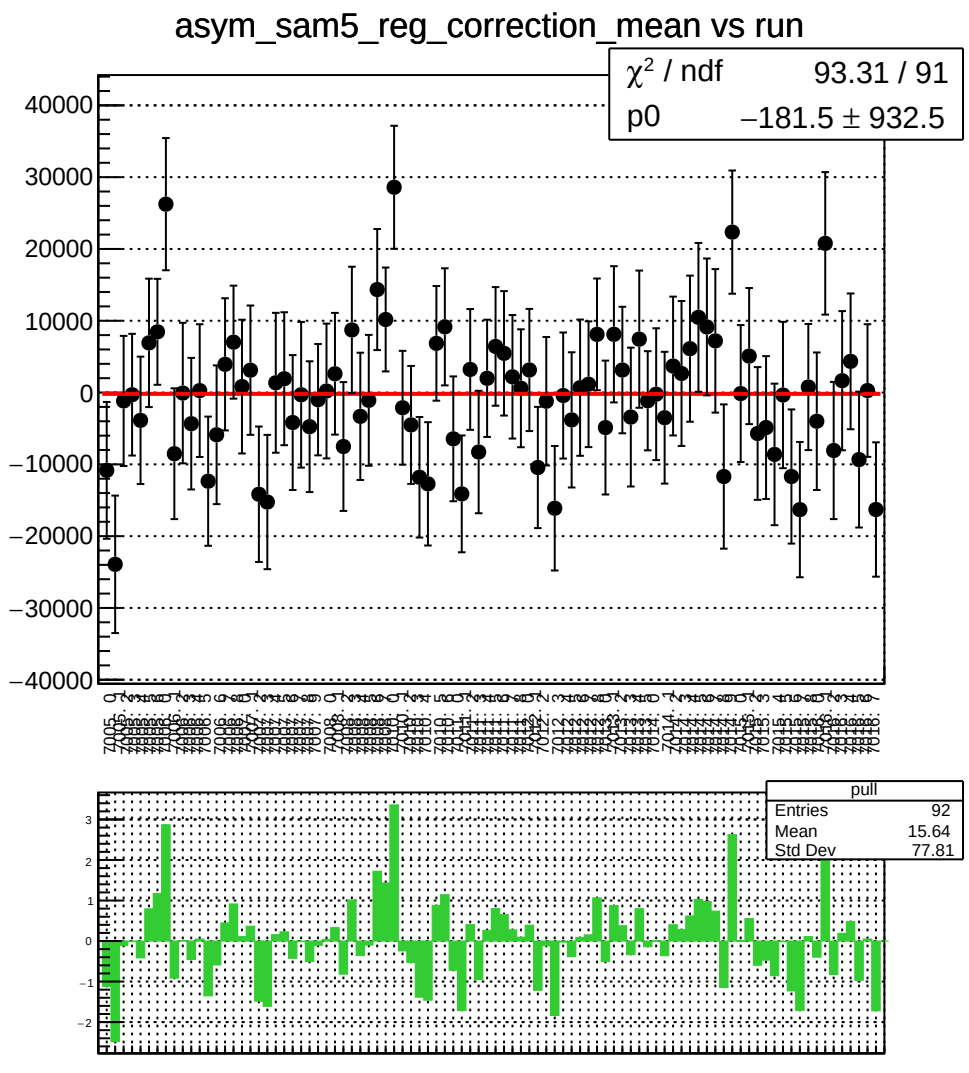

pull1D
Entries 92
Mean −0.1117
Std Dev 1.133

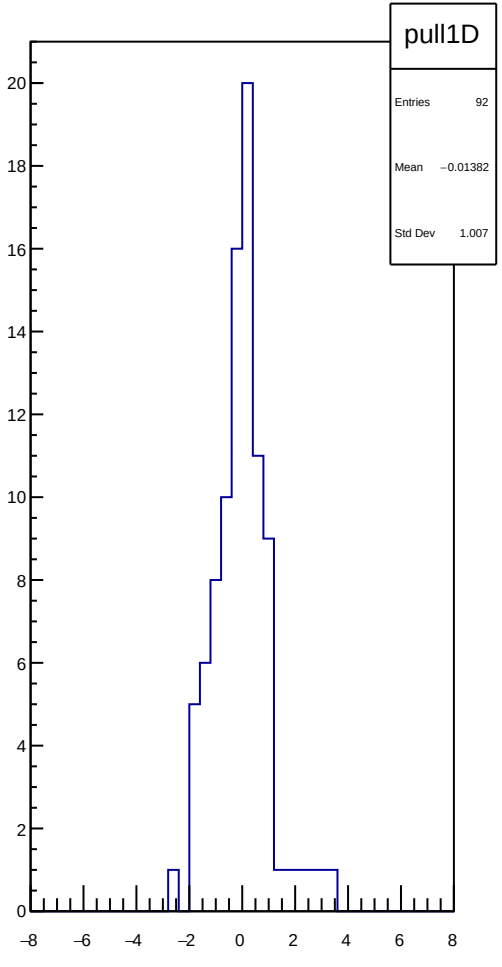

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.757e+05 / 91
p0 4.536e−11 ± 3.919e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

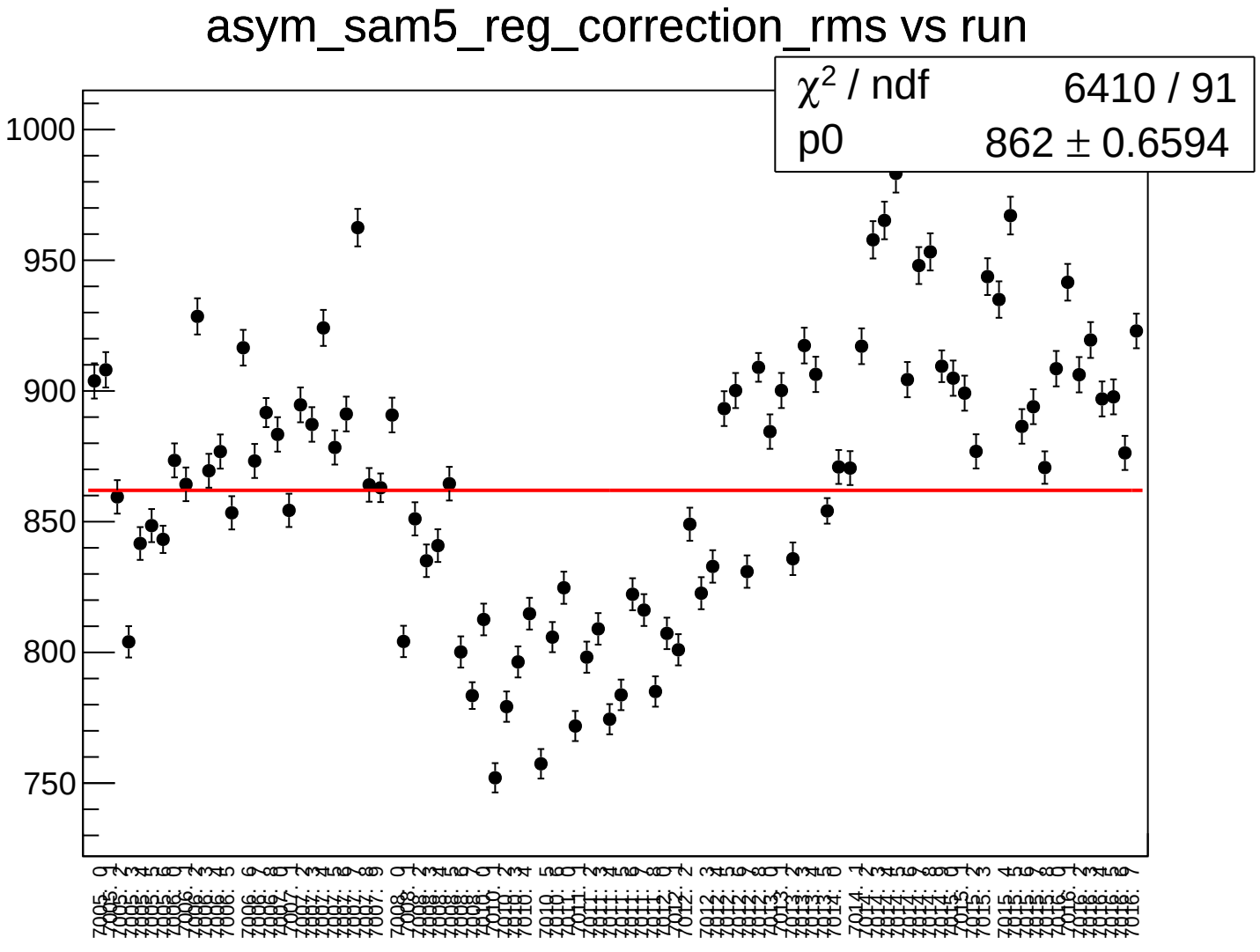

reg_asym_sam5_mean vs run
χ² / ndf 62.95 / 91
p0 278 ± 171.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 511.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

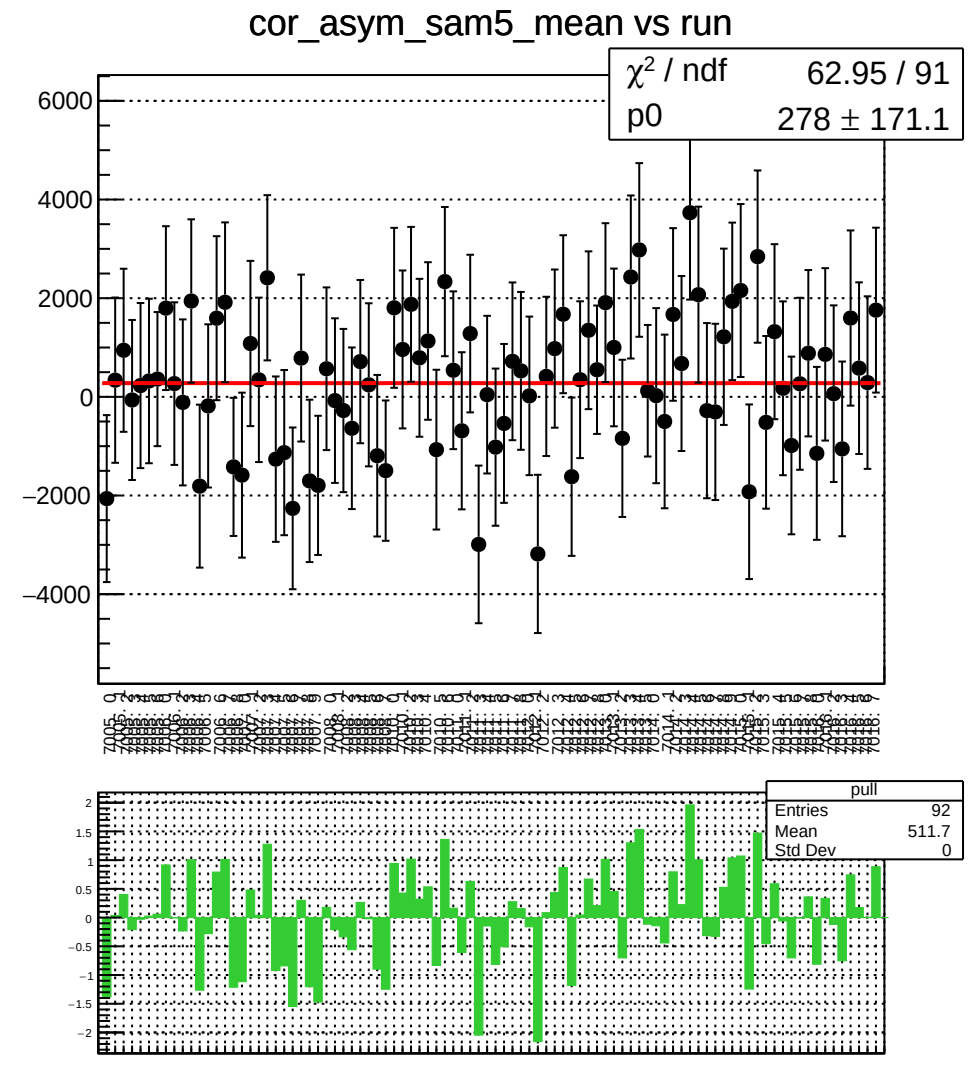

pull1D
Entries 92
Mean 0.008458
Std Dev 0.8272
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

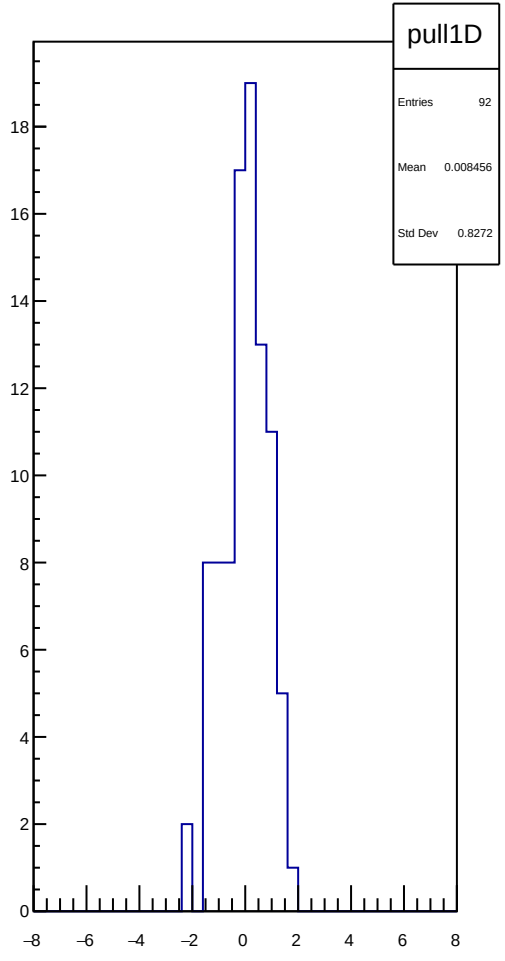

reg_asym_sam5_rms vs run
χ² / ndf 2687 / 91
p0 158.3 ± 0.121
170
165
160
155
150

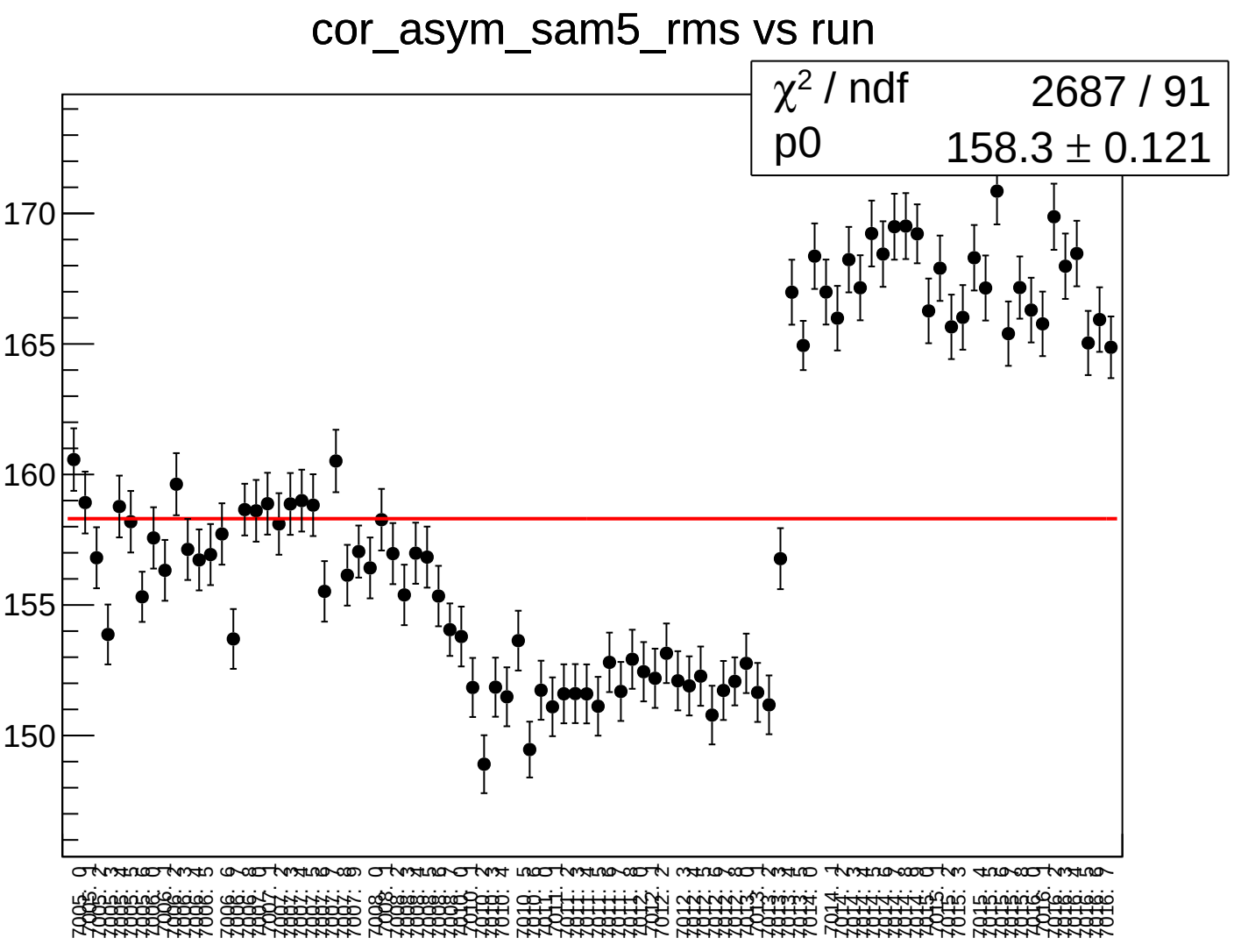

asym_sam5_reg_correction_mean vs run
χ² / ndf 93.31 / 91
p0 −181.5 ± 932.5
pull
Entries 92
Mean 15.64
Std Dev 77.81

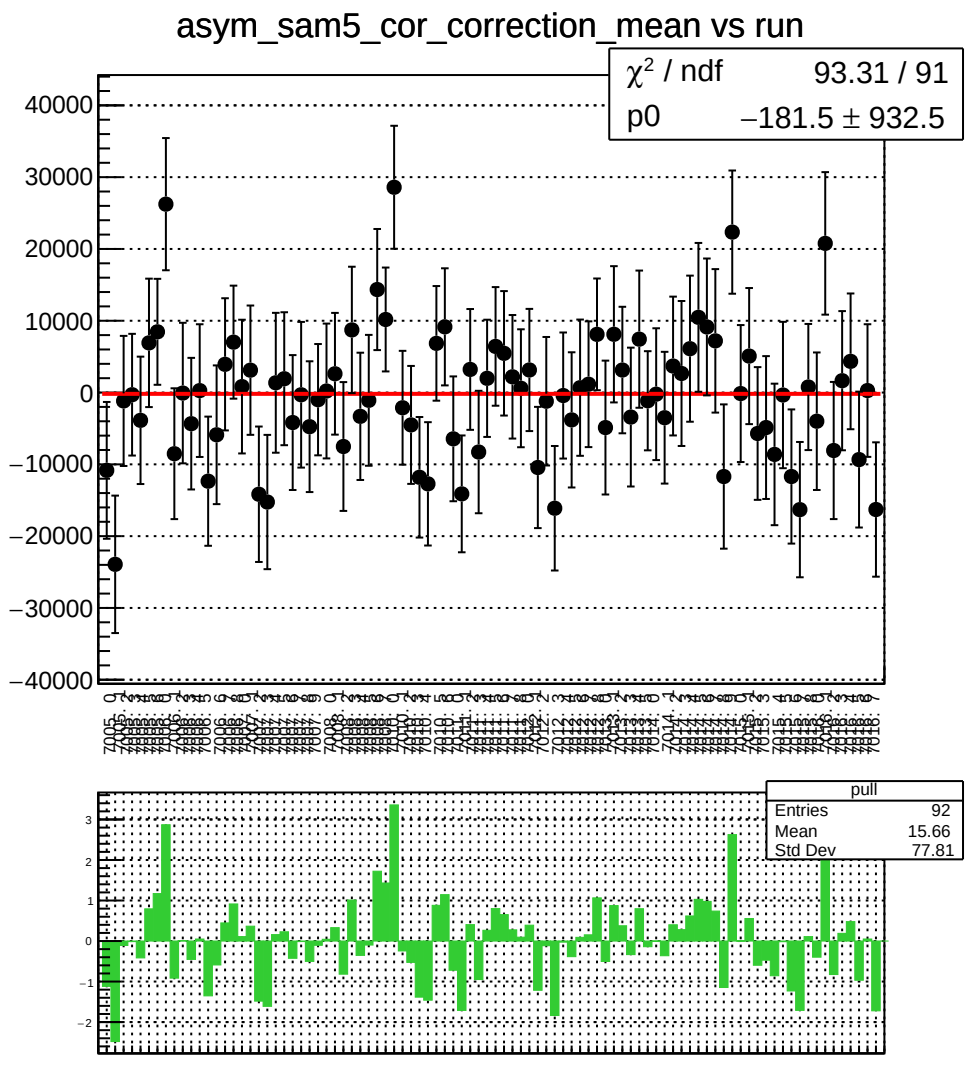

pull1D
Entries 92
Mean −0.01382
Std Dev 1.007

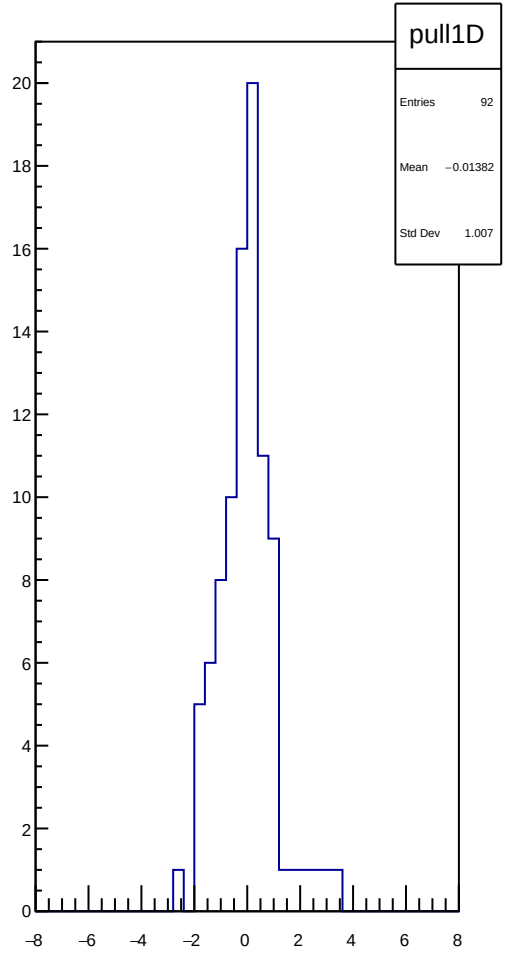

asym_sam5_reg_correction_rms vs run
χ² / ndf 6410 / 91
p0 862 ± 0.6594
1000
950
900
850
800
750

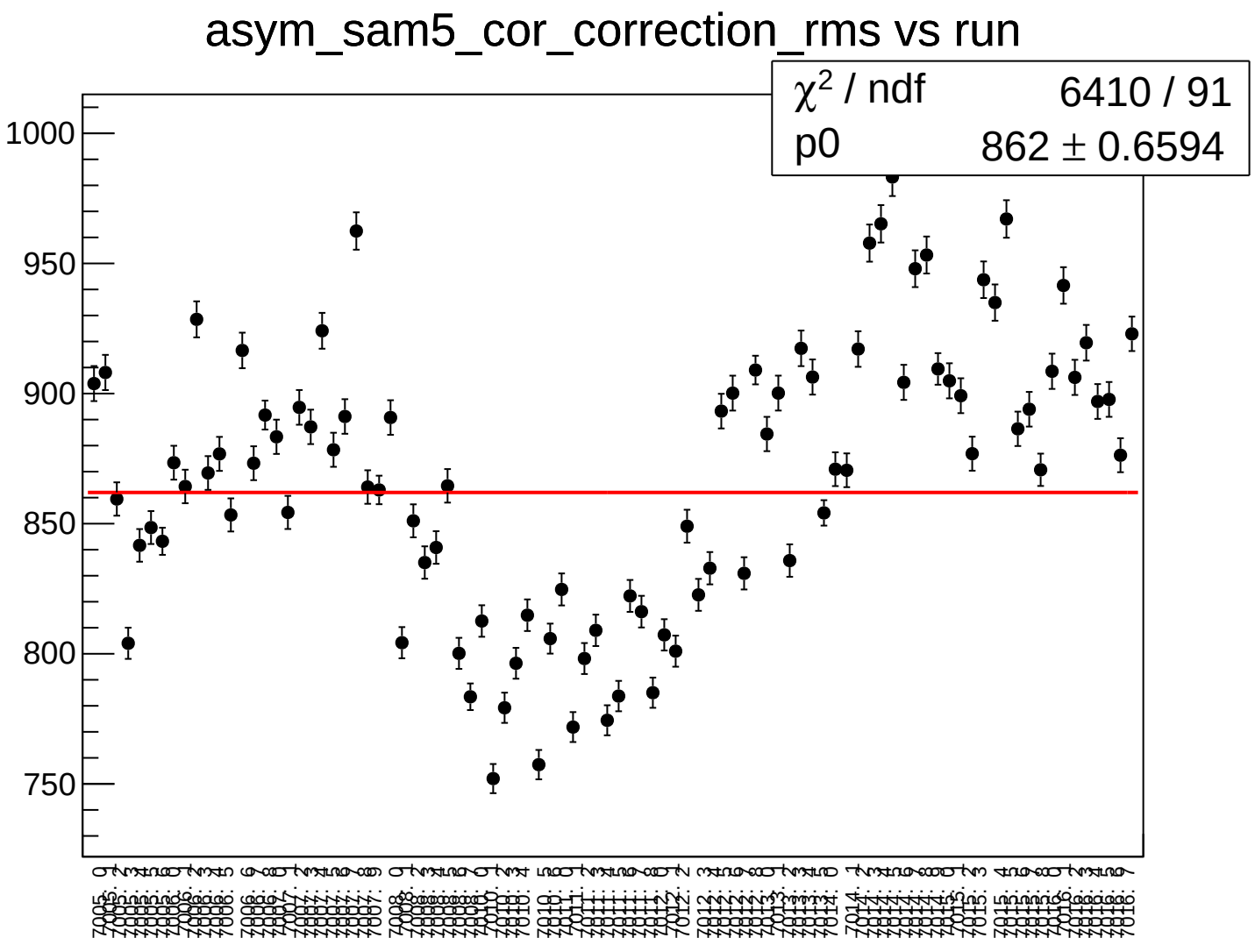

cor_asym_sam5_mean vs run
χ² / ndf 62.95 / 91
p0 278 ± 171.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 511.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

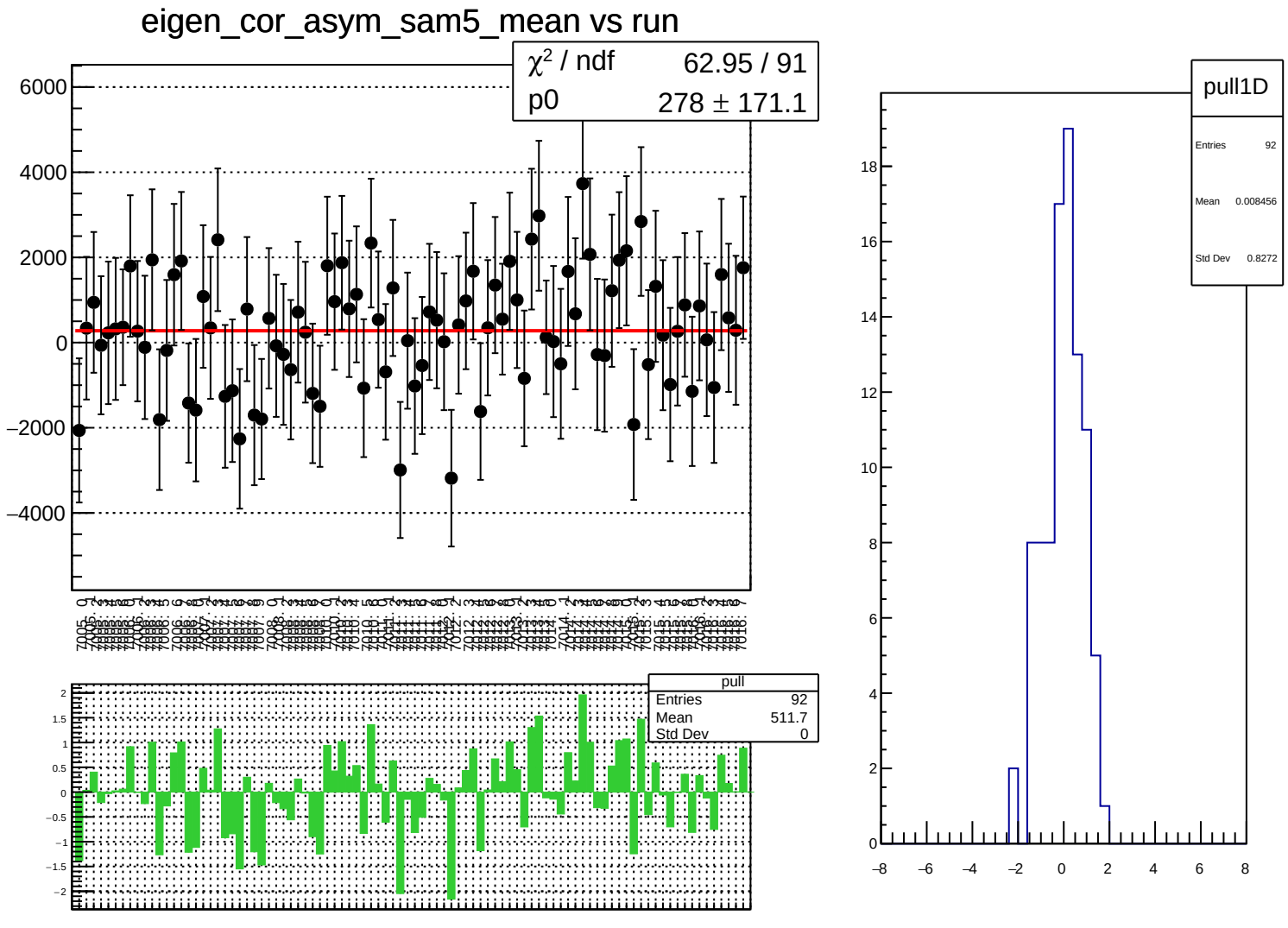

pull1D
Entries 92
Mean 0.008456
Std Dev 0.8272
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

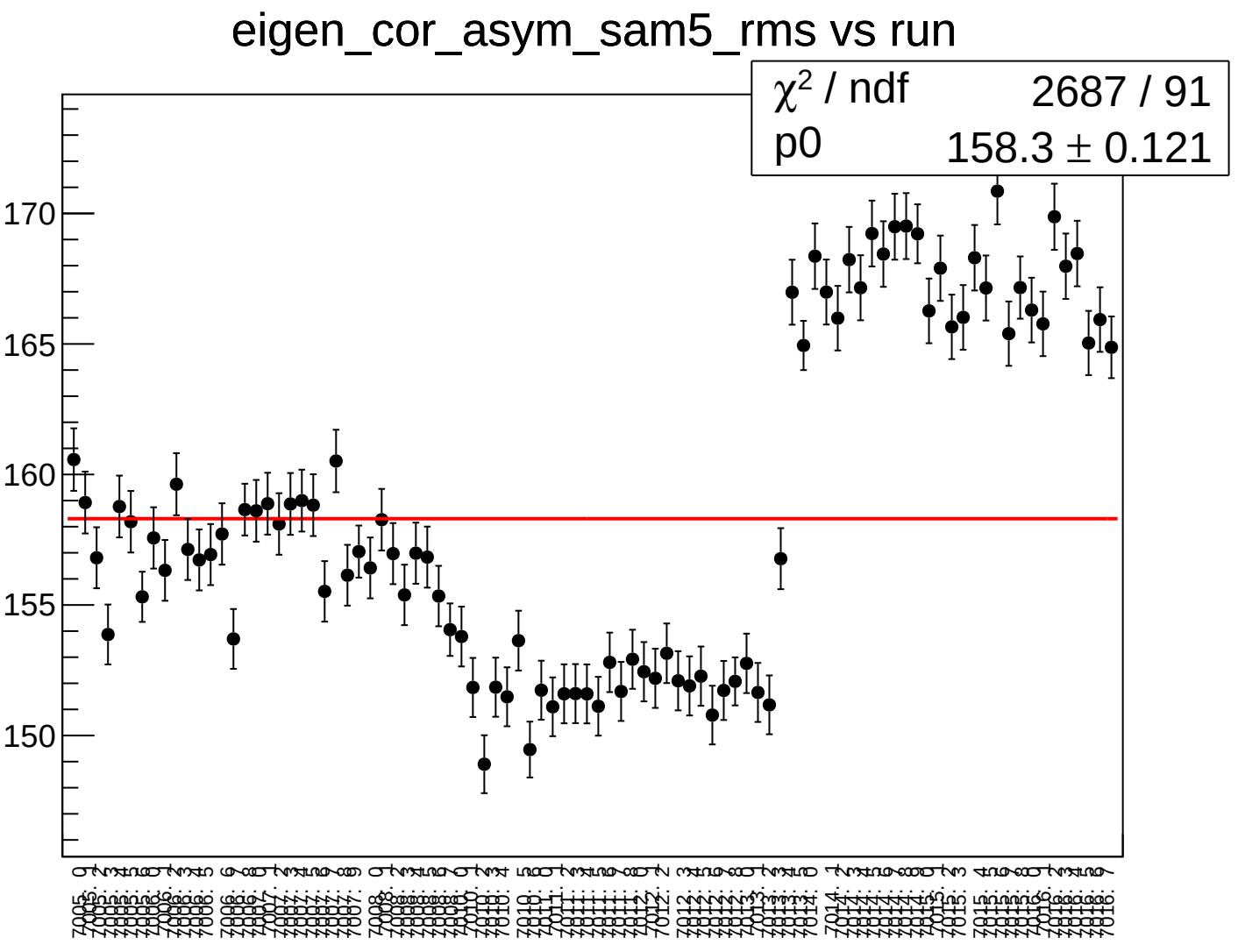

cor_asym_sam5_rms vs run
χ² / ndf 2687 / 91
p0 158.3 ± 0.121
170
165
160
155
150

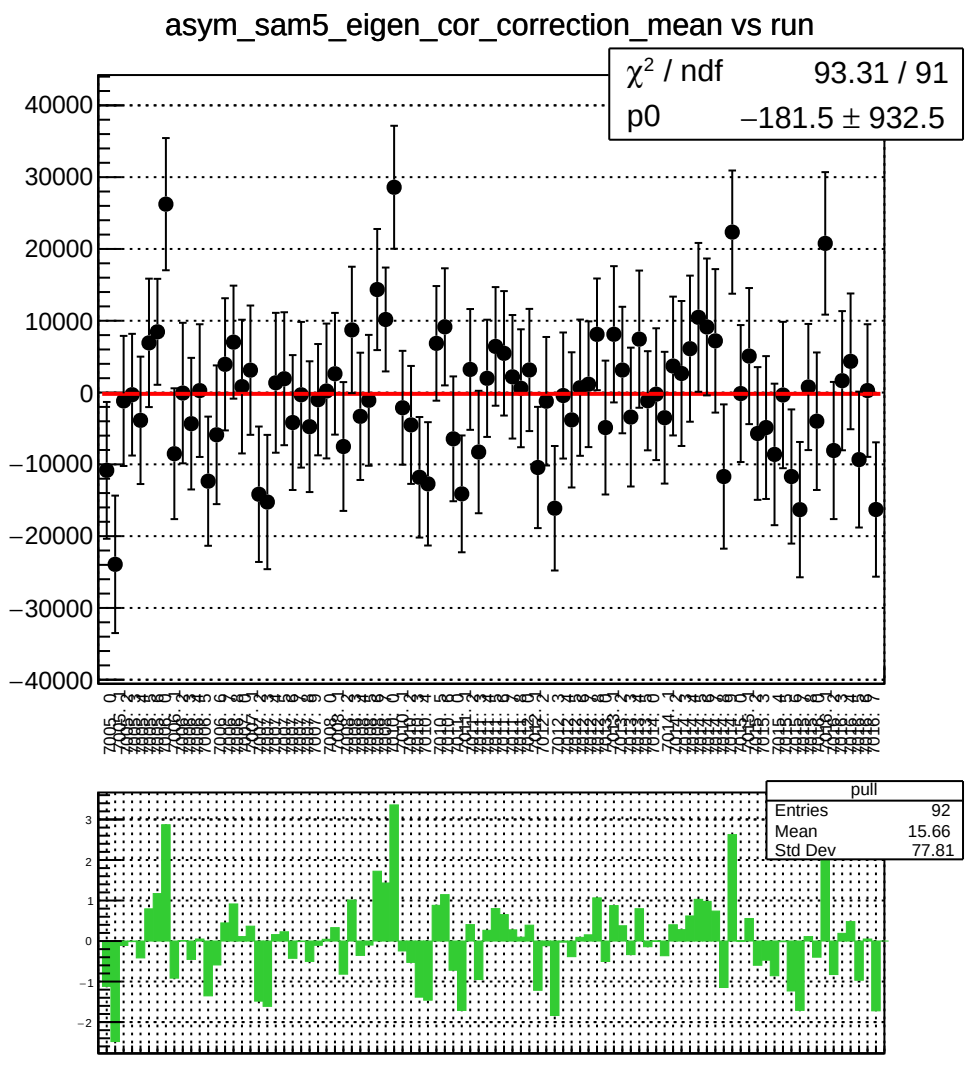

asym_sam5_cor_correction_mean vs run
χ² / ndf 93.31 / 91
p0 −181.5 ± 932.5
pull
Entries 92
Mean 15.66
Std Dev 77.81

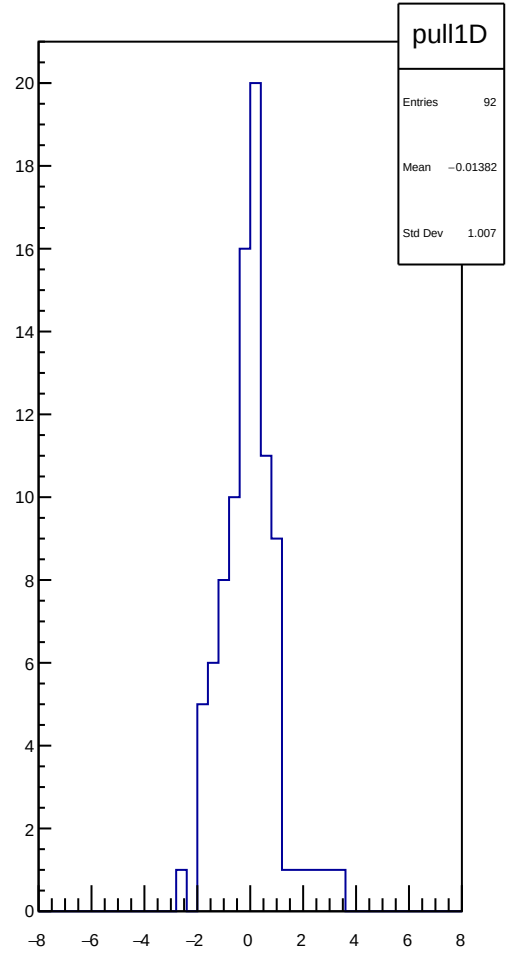

pull1D
Entries 92
Mean −0.01382
Std Dev 1.007

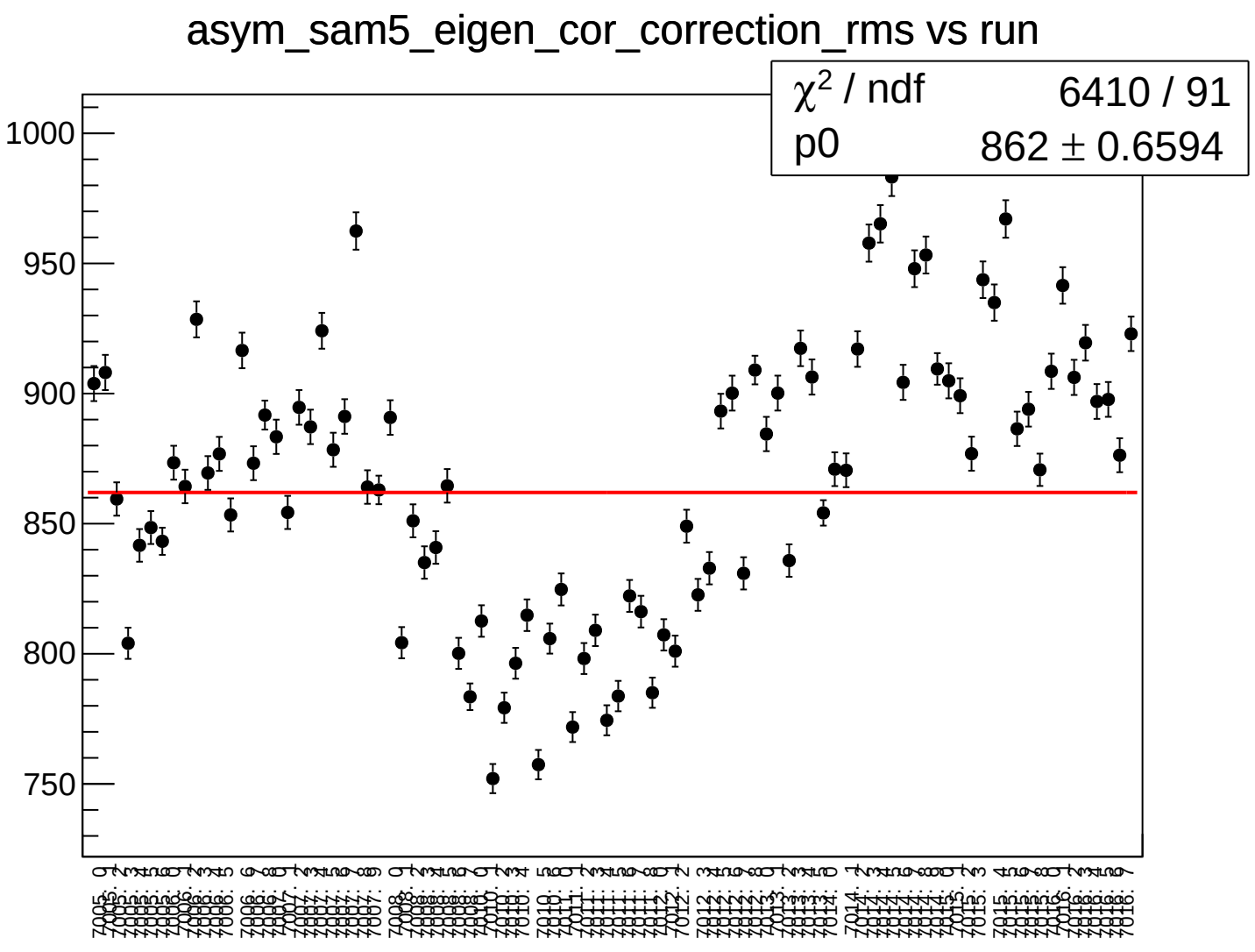

asym_sam5_cor_correction_rms vs run
χ² / ndf 6410 / 91
p0 862 ± 0.6594
1000
950
900
850
800
750

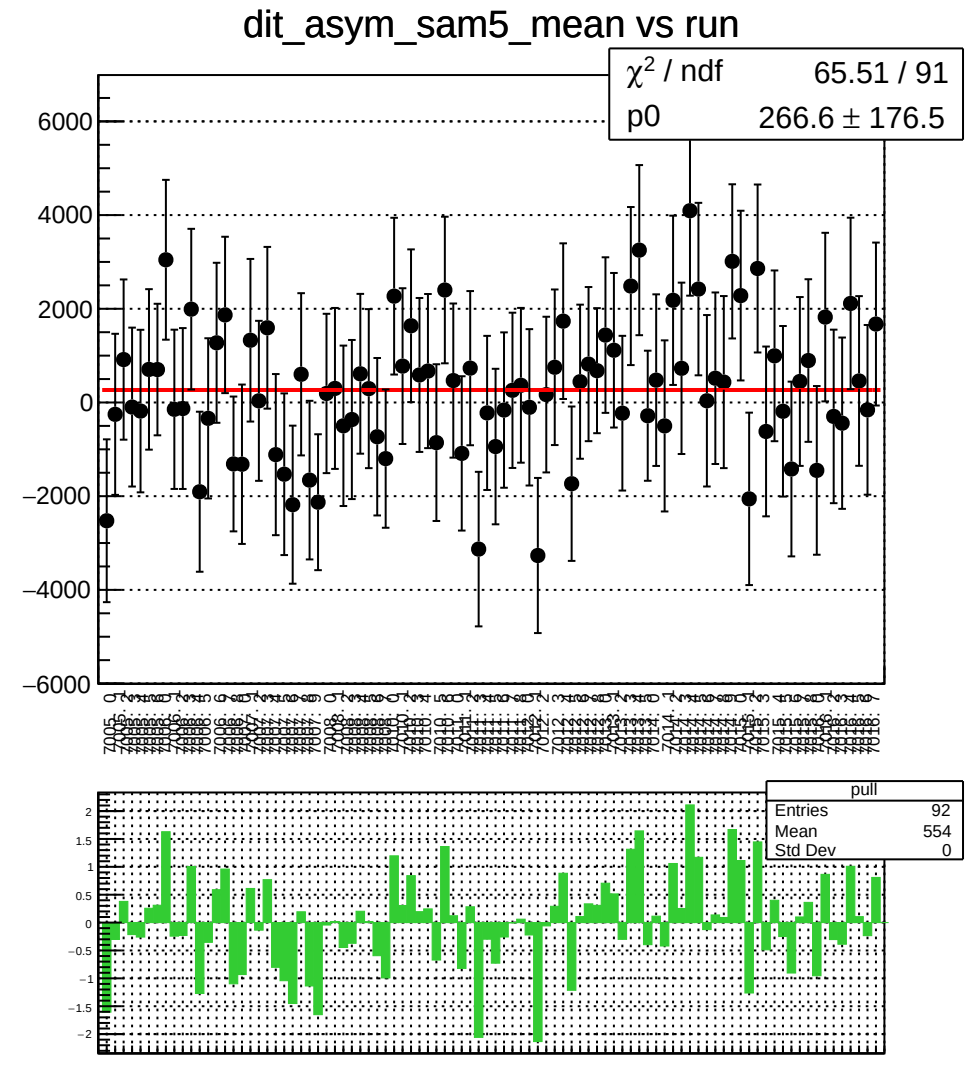

eigen_cor_asym_sam5_mean vs run
χ² / ndf 62.95 / 91
p0 278 ± 171.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 511.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.008456
Std Dev 0.8272
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

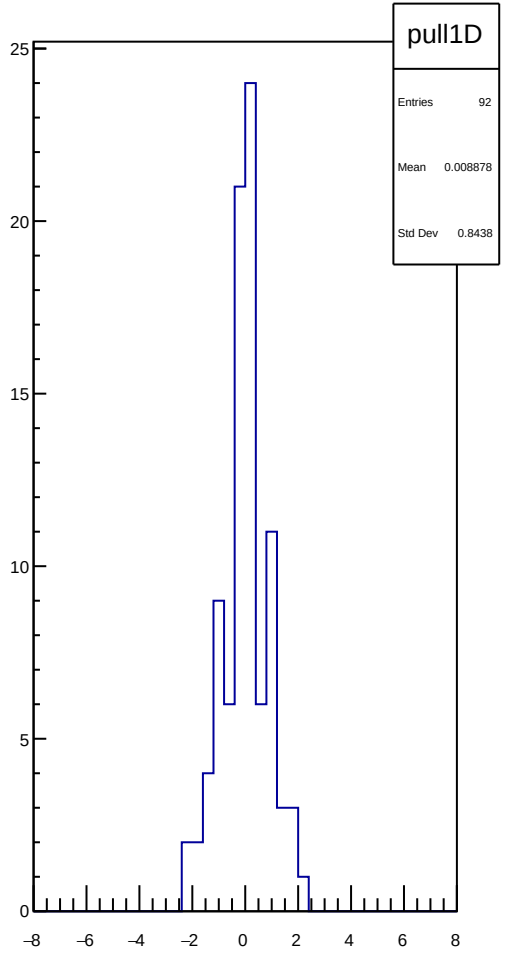

eigen_cor_asym_sam5_rms vs run
χ² / ndf 2687 / 91
p0 158.3 ± 0.121
170
165
160
155
150

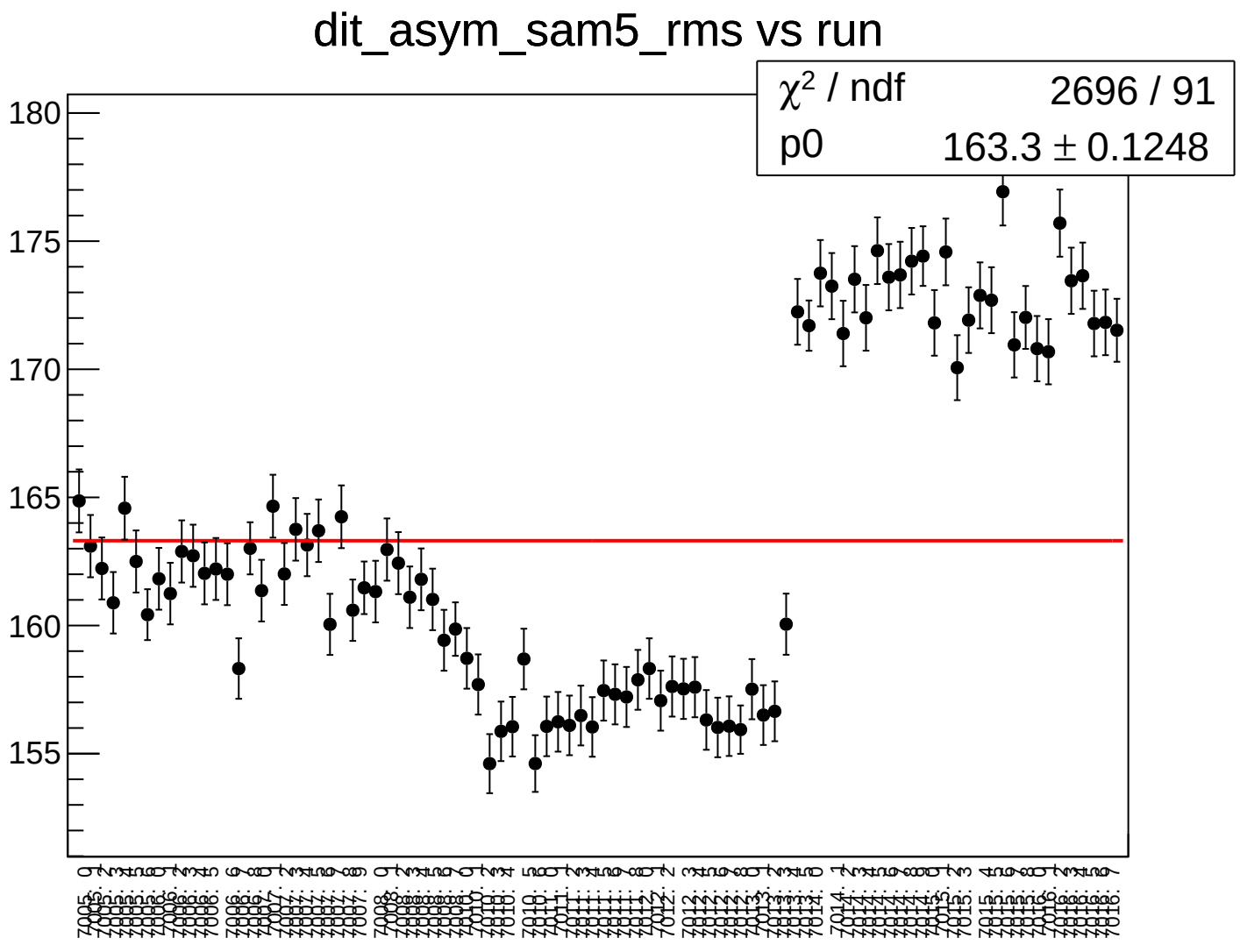

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 93.31 / 91
p0 −181.5 ± 932.5
pull
Entries 92
Mean 15.66
Std Dev 77.81

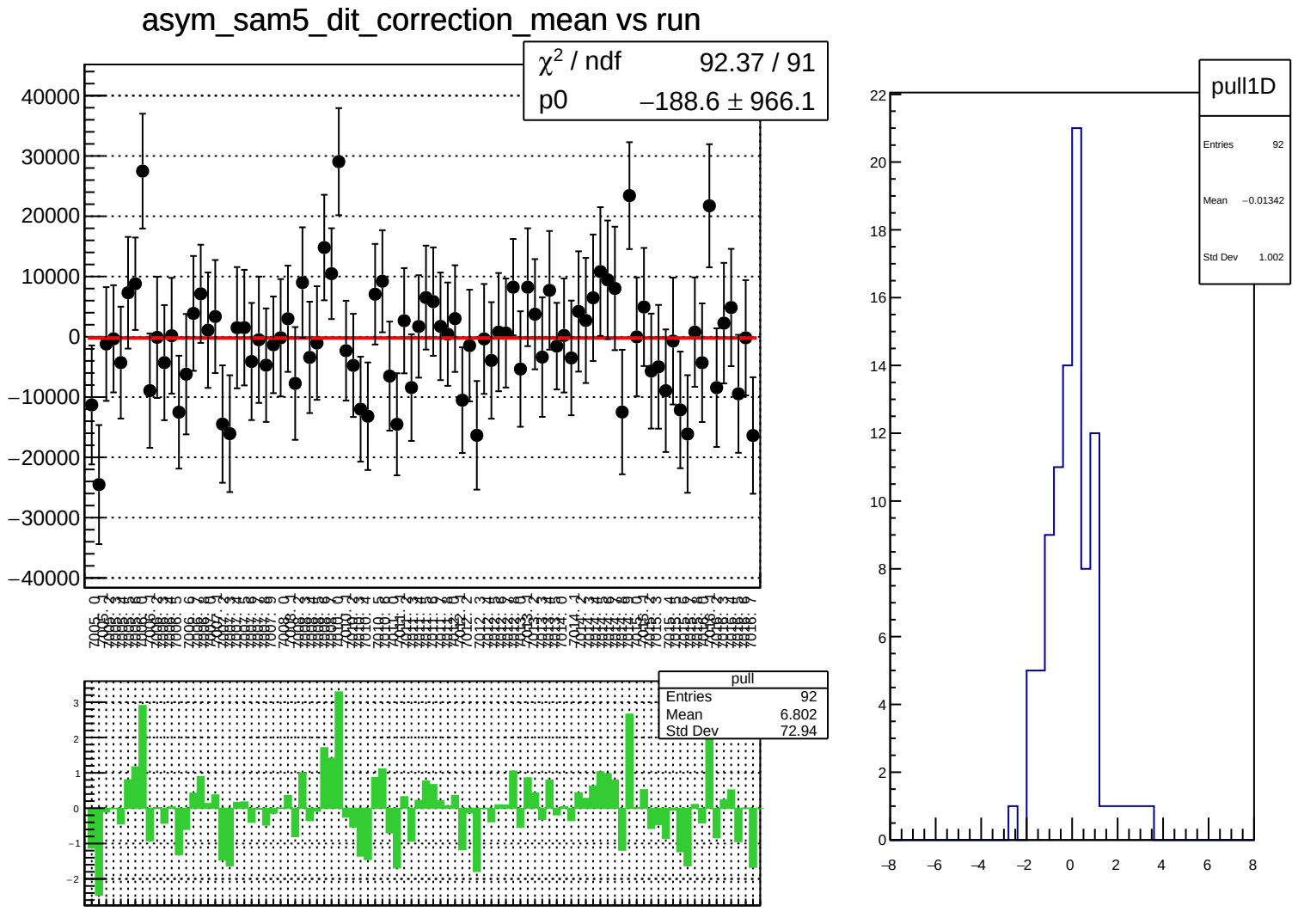

pull1D
Entries 92
Mean −0.01382
Std Dev 1.007

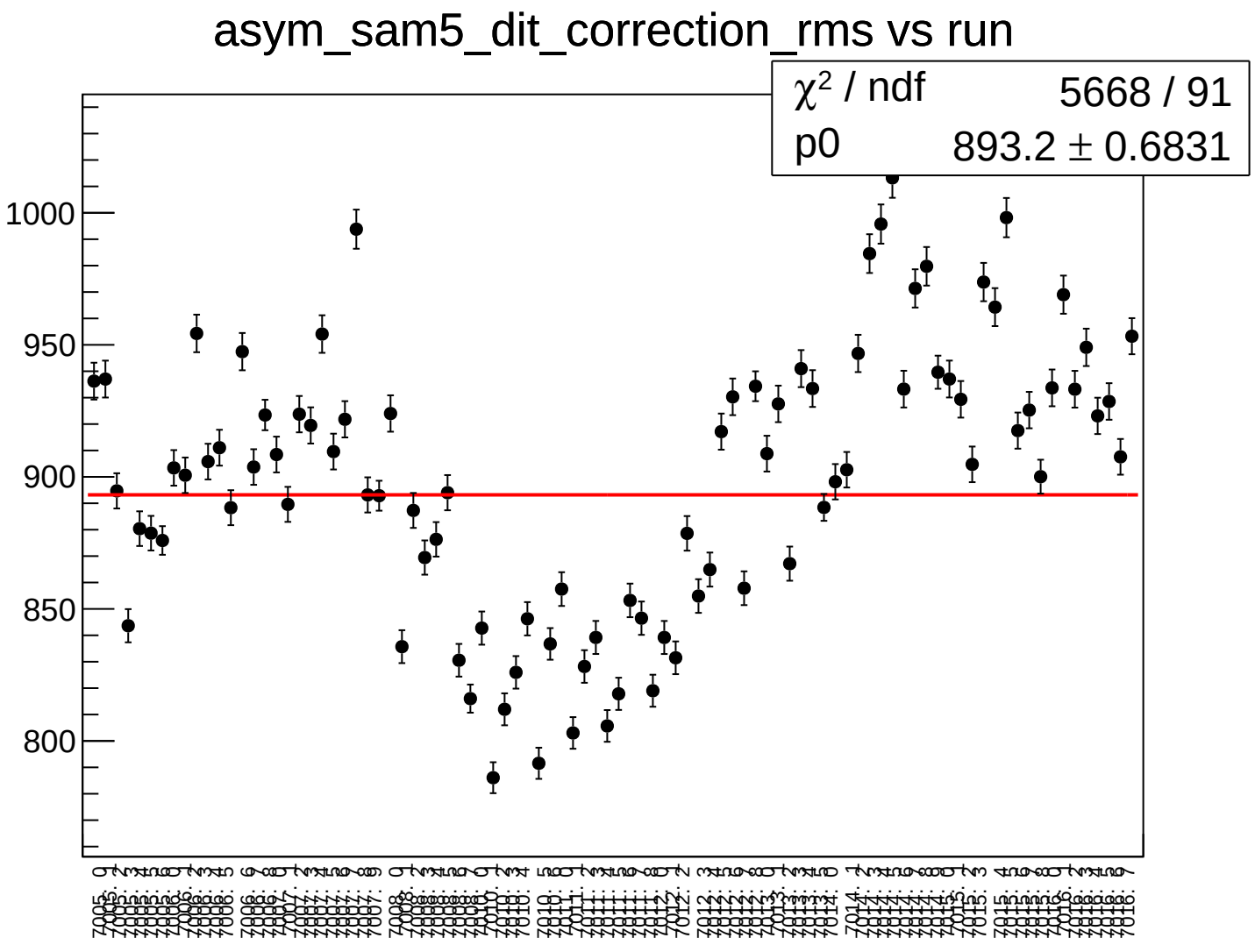

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 6410 / 91
p0 862 ± 0.6594
1000
950
900
850
800
750

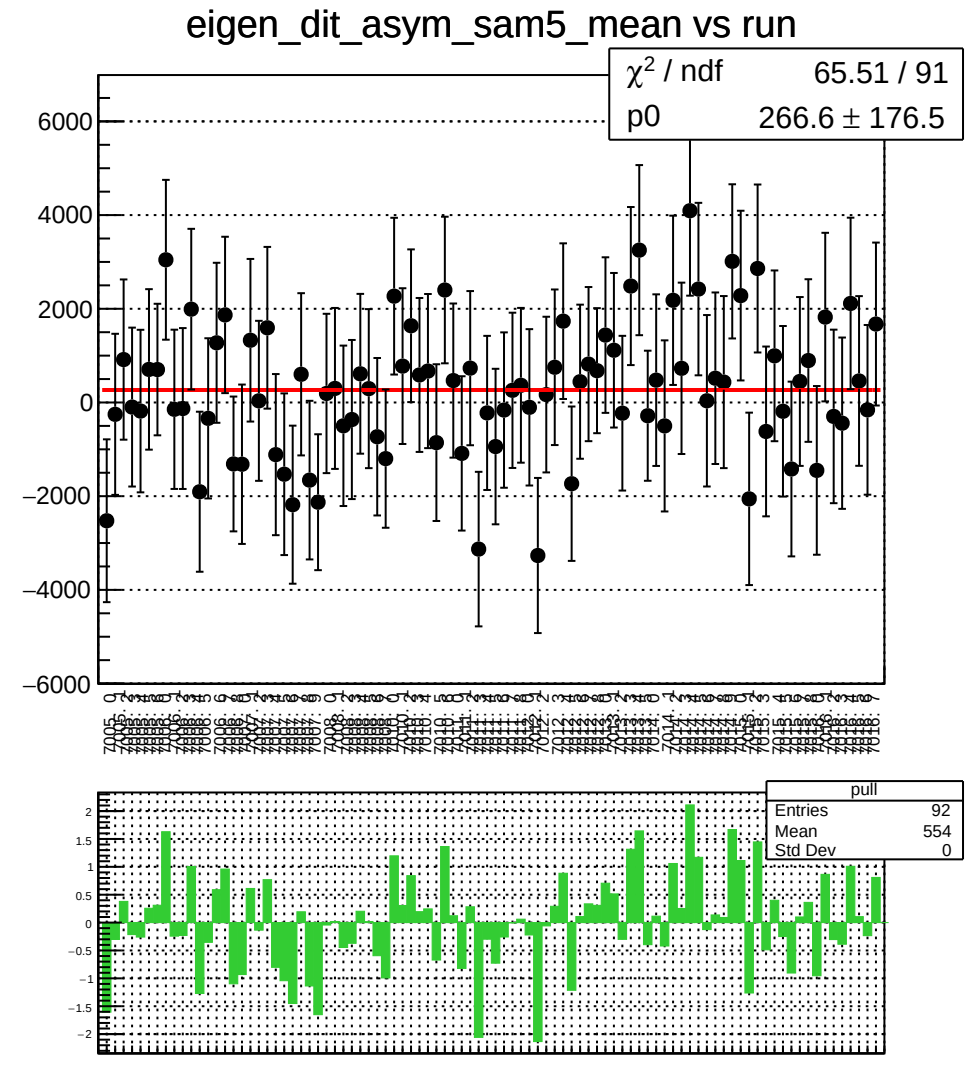

dit_asym_sam5_mean vs run
χ² / ndf 65.51 / 91
p0 266.6 ± 176.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 554
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

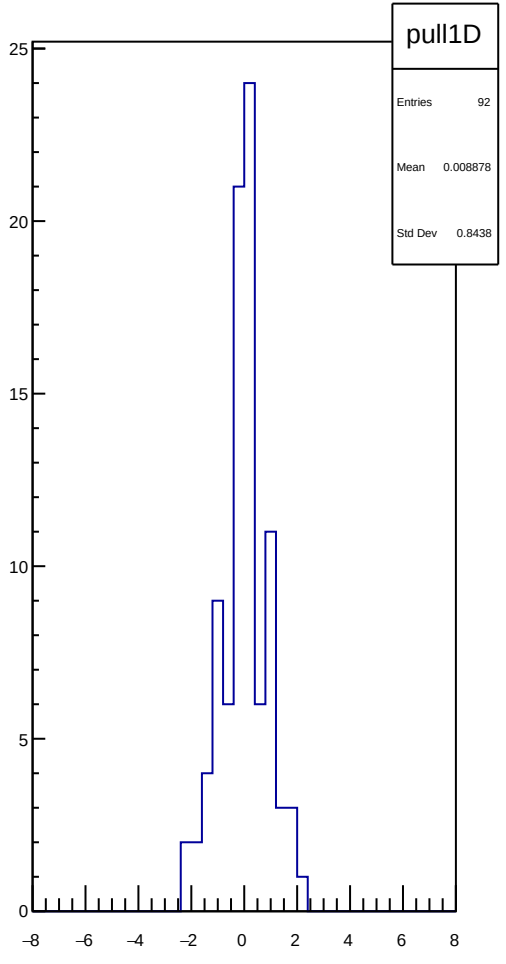

pull1D
Entries 92
Mean 0.008878
Std Dev 0.8438
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

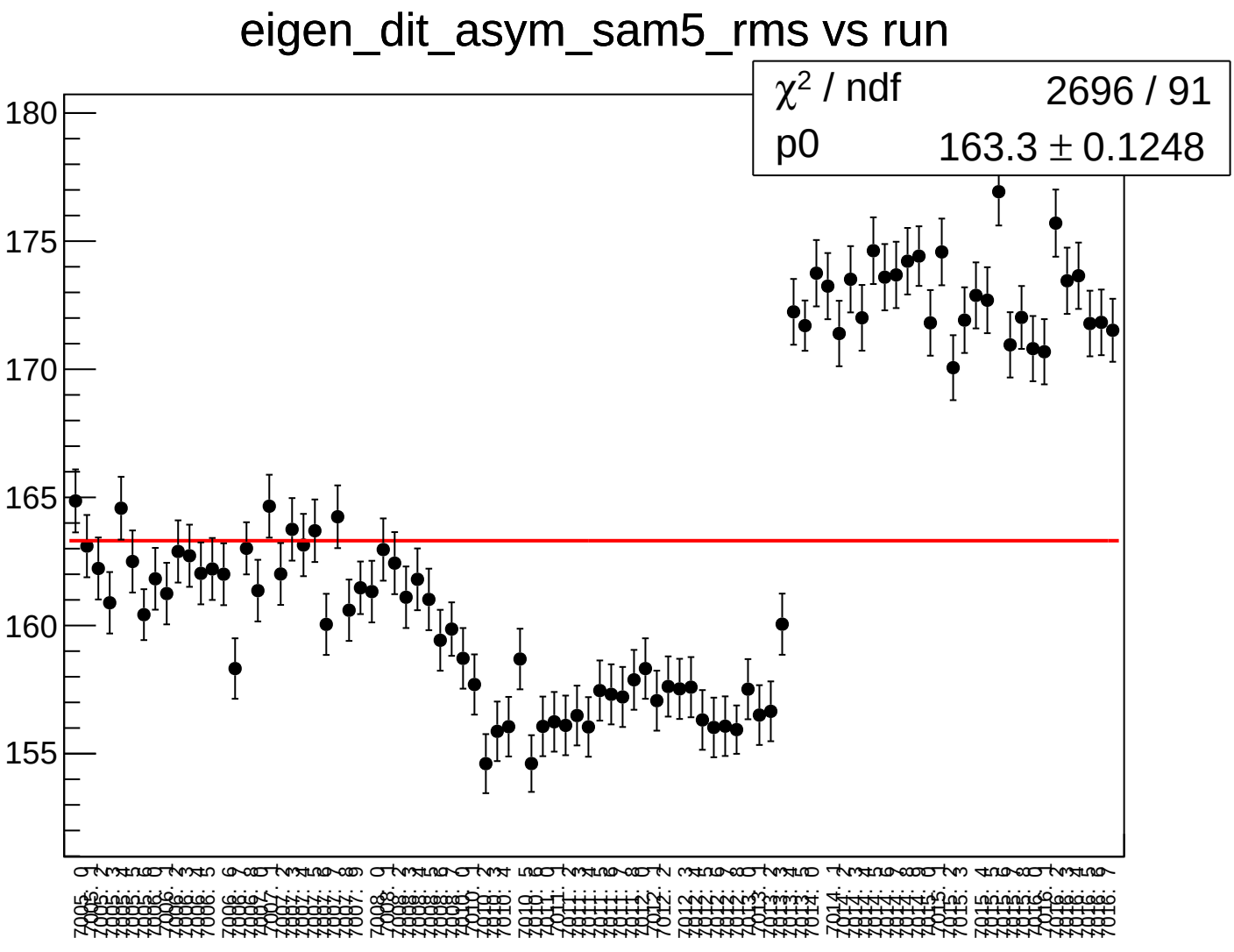

dit_asym_sam5_rms vs run
$\chi^2$ / ndf 2696 / 91
p0 163.3 ± 0.1248
180
175
170
165
160
155

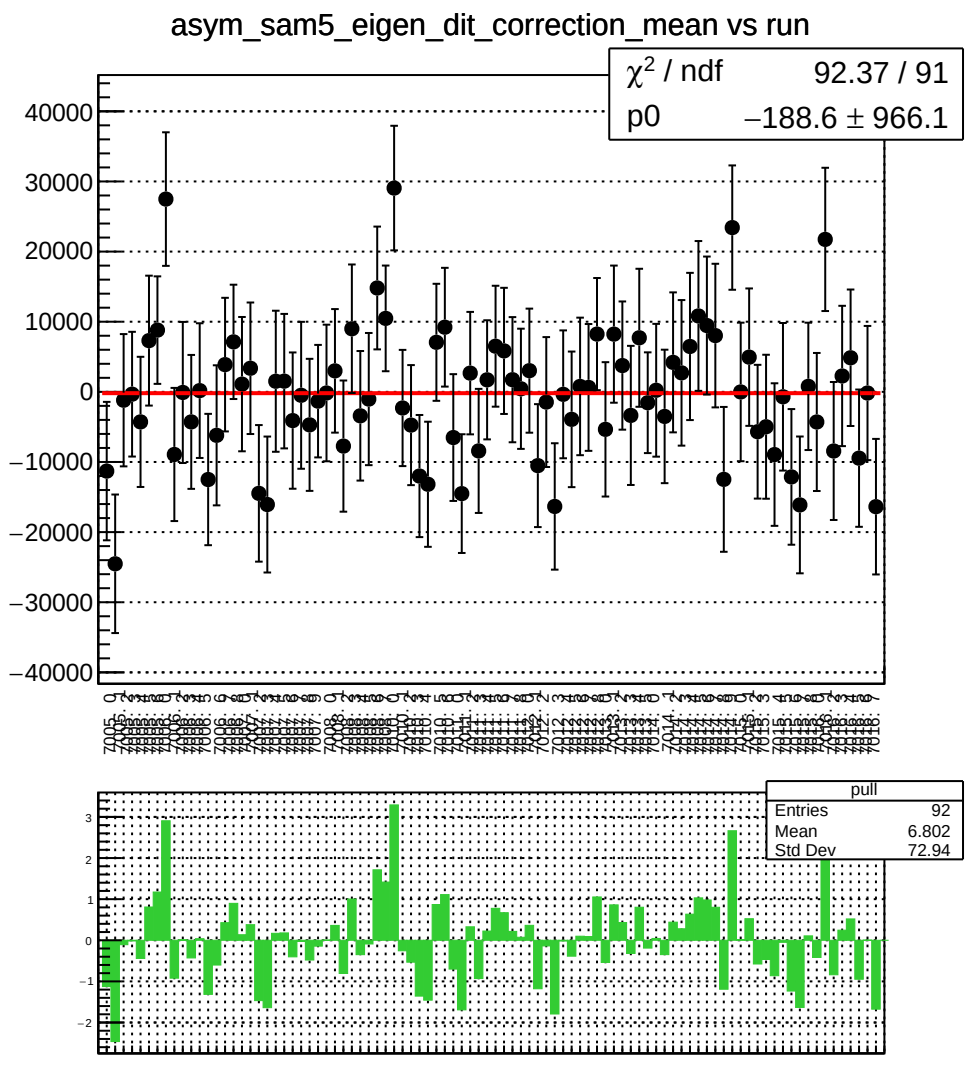

asym_sam5_dit_correction_mean vs run
χ² / ndf 92.37 / 91
p0 −188.6 ± 966.1
pull
Entries 92
Mean 6.802
Std Dev 72.94
pull1D
Entries 92
Mean −0.01342
Std Dev 1.002

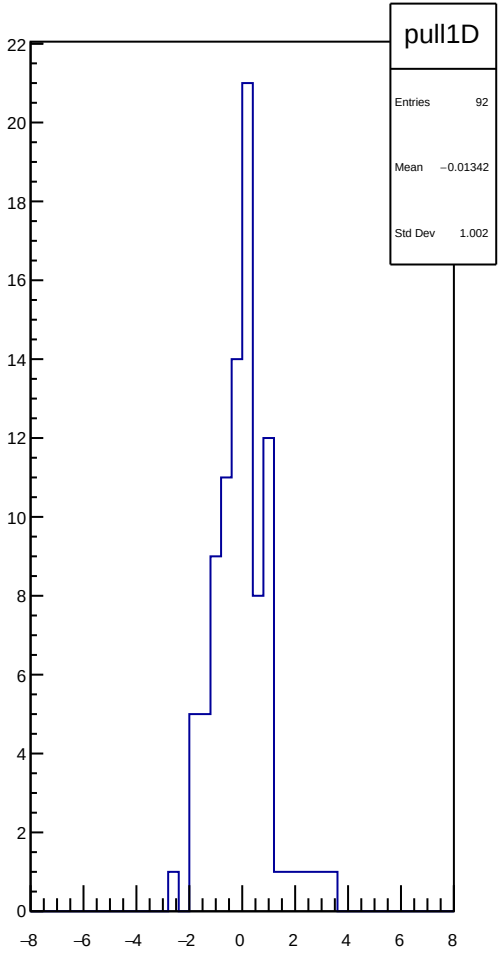

asym_sam5_dit_correction_rms vs run
χ² / ndf 5668 / 91
p0 893.2 ± 0.6831
1000
950
900
850
800

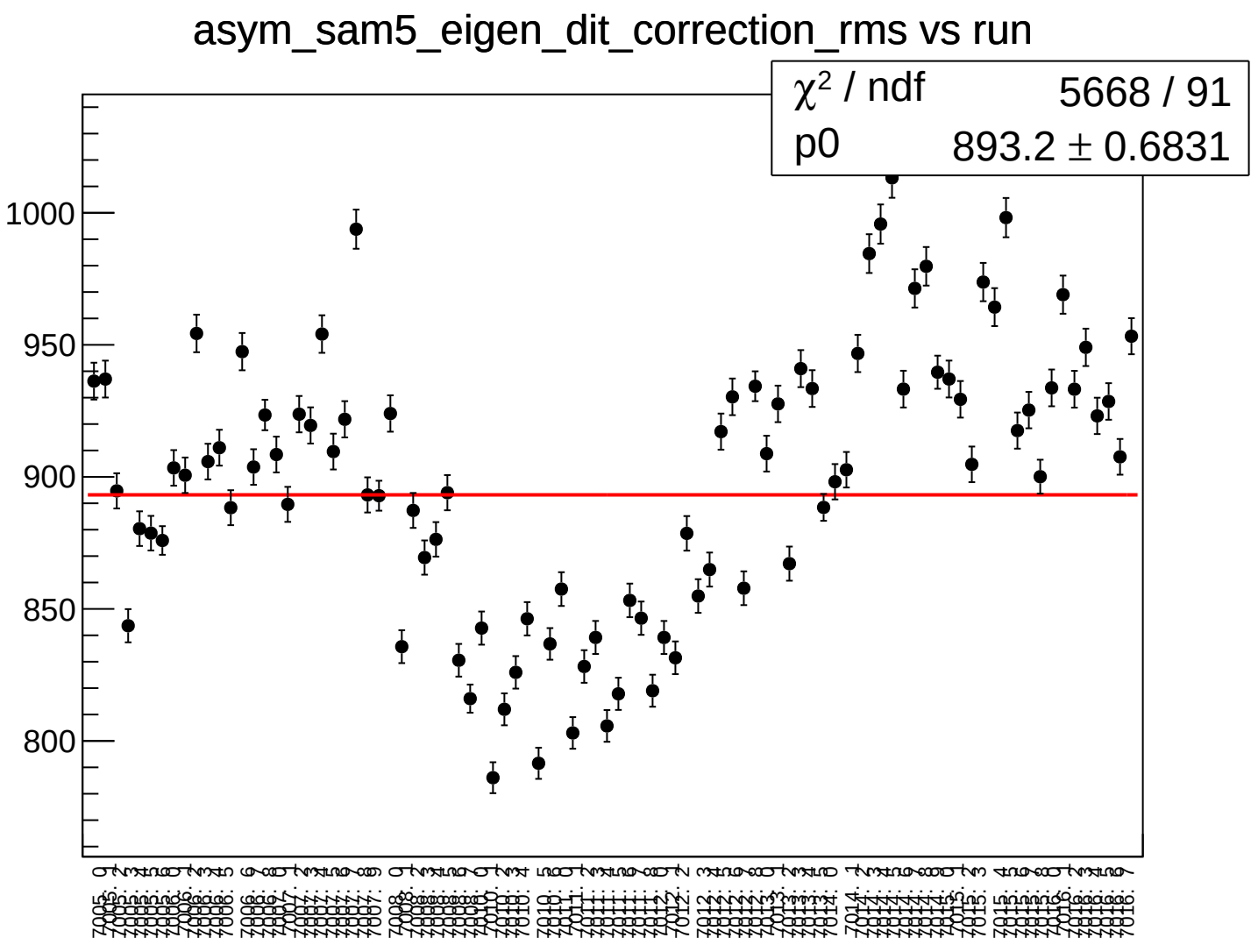

eigen_dit_asym_sam5_mean vs run
χ² / ndf 65.51 / 91
p0 266.6 ± 176.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 554
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

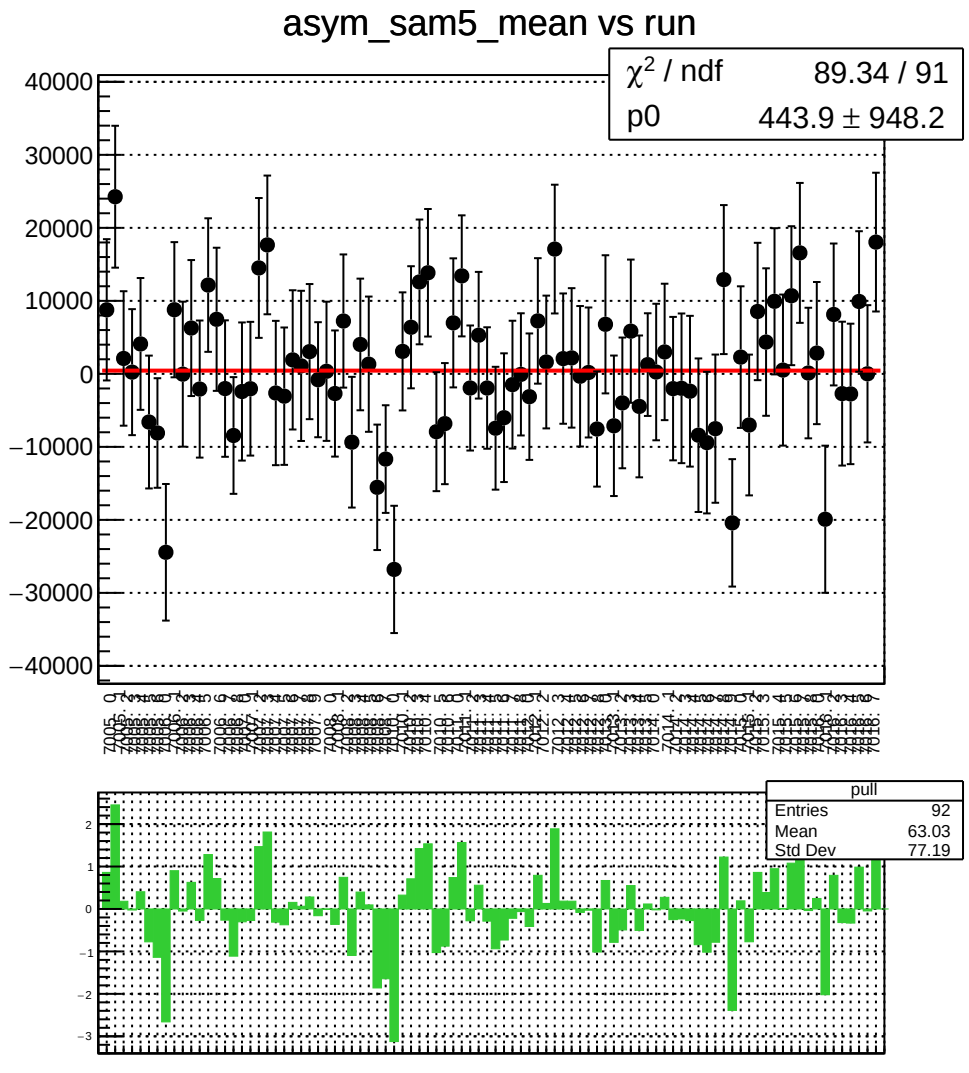

pull1D
Entries 92
Mean 0.008878
Std Dev 0.8438
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

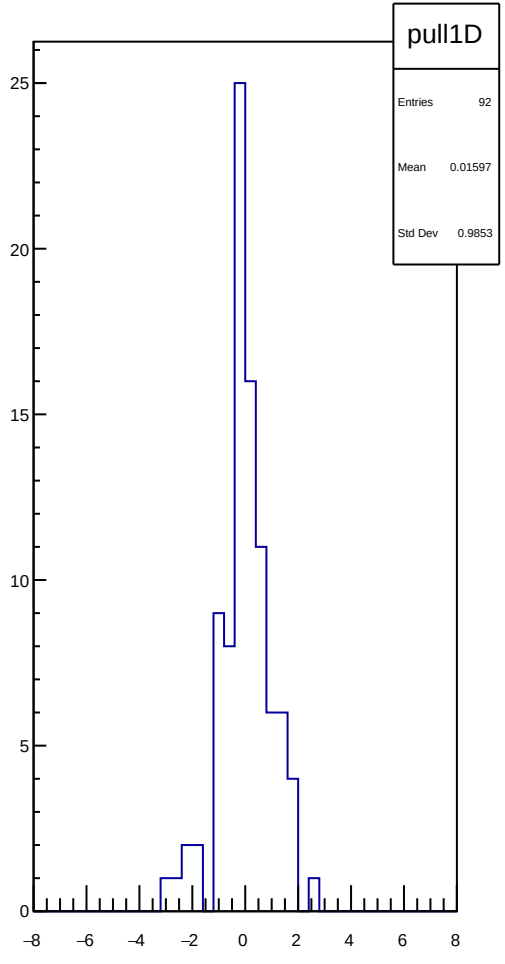

eigen_dit_asym_sam5_rms vs run
χ² / ndf 2696 / 91
p0 163.3 ± 0.1248
180
175
170
165
160
155

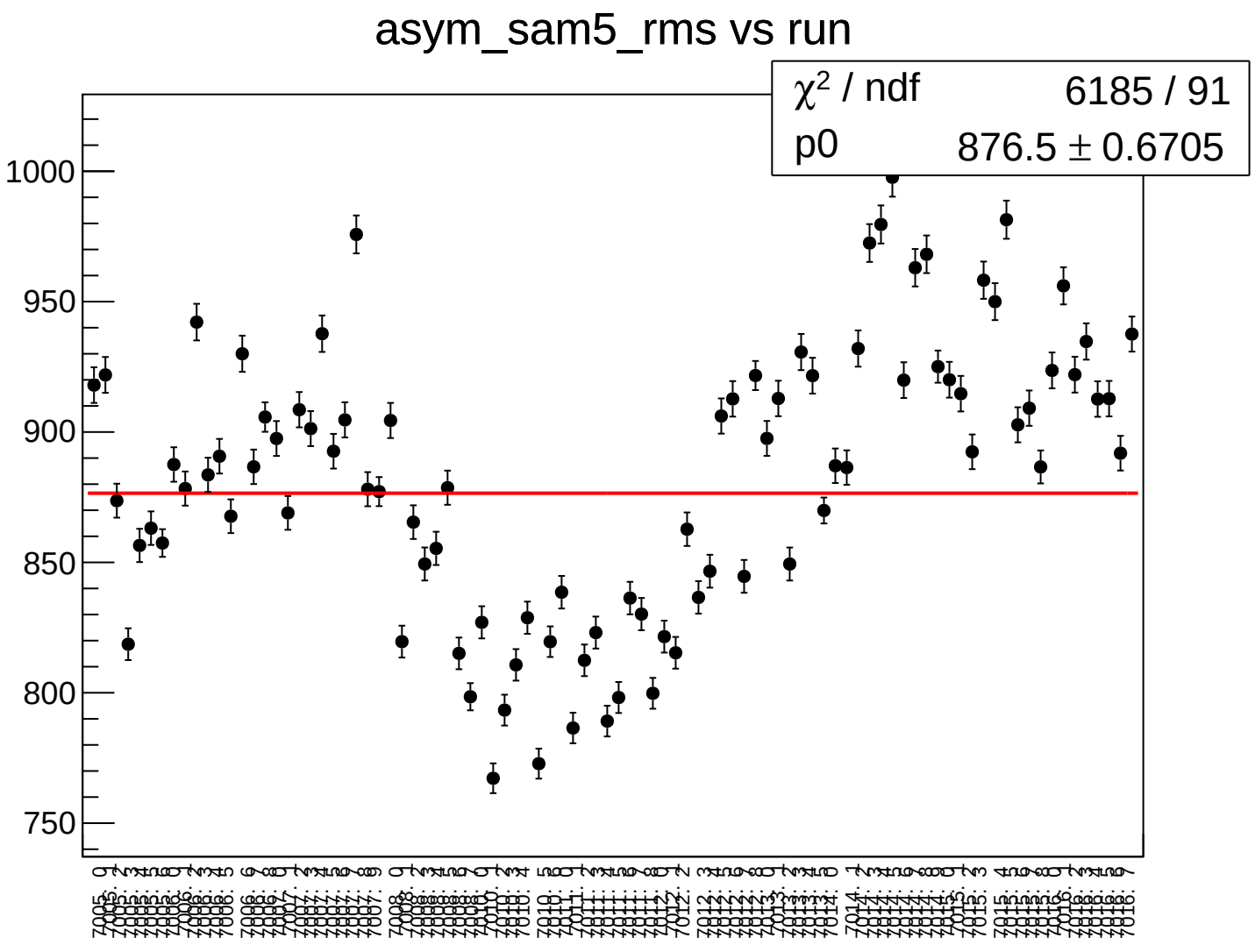

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 92.37 / 91
p0 −188.6 ± 966.1
pull
Entries 92
Mean 6.802
Std Dev 72.94

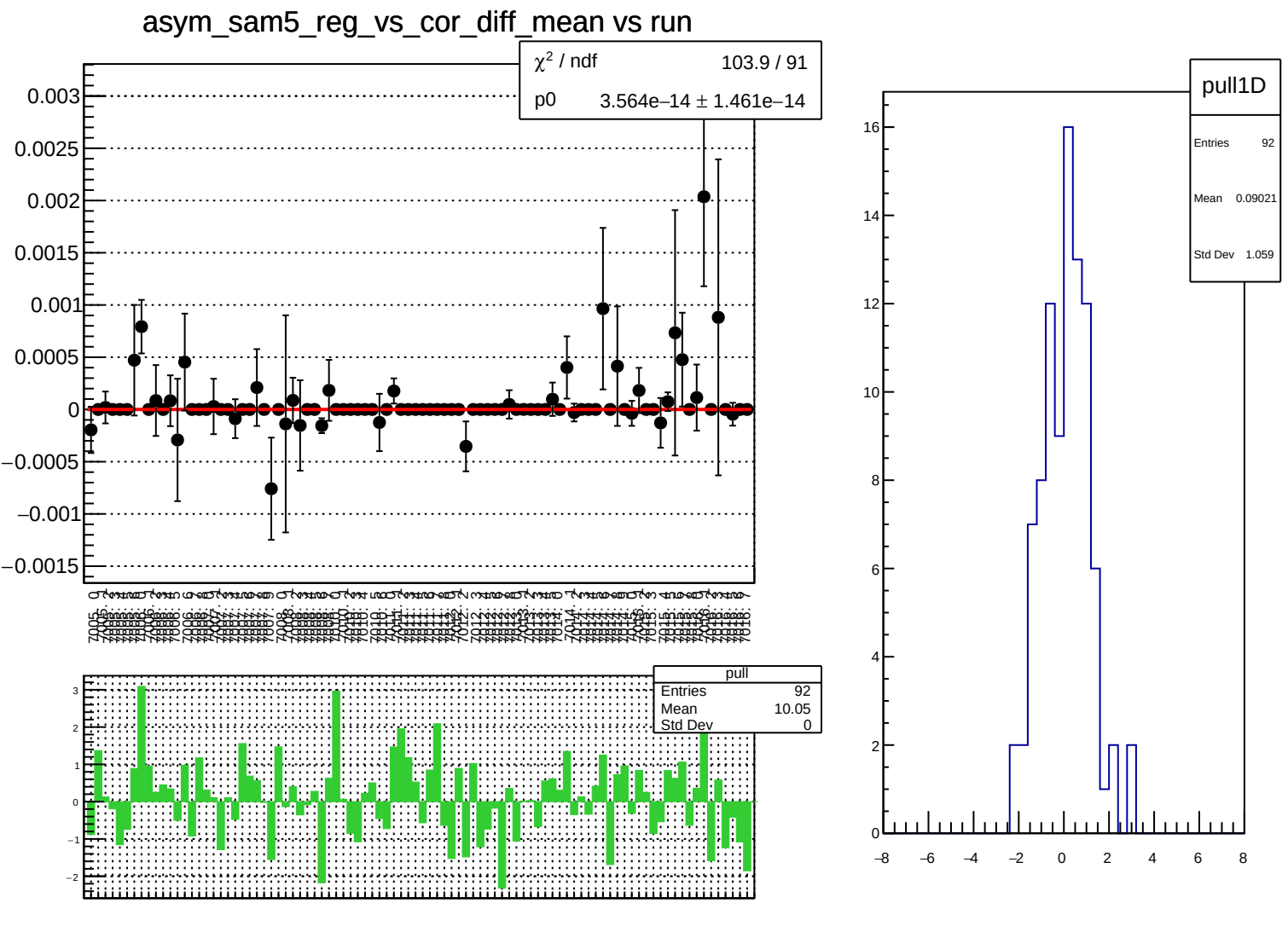

pull1D
Entries 92
Mean −0.01342
Std Dev 1.002

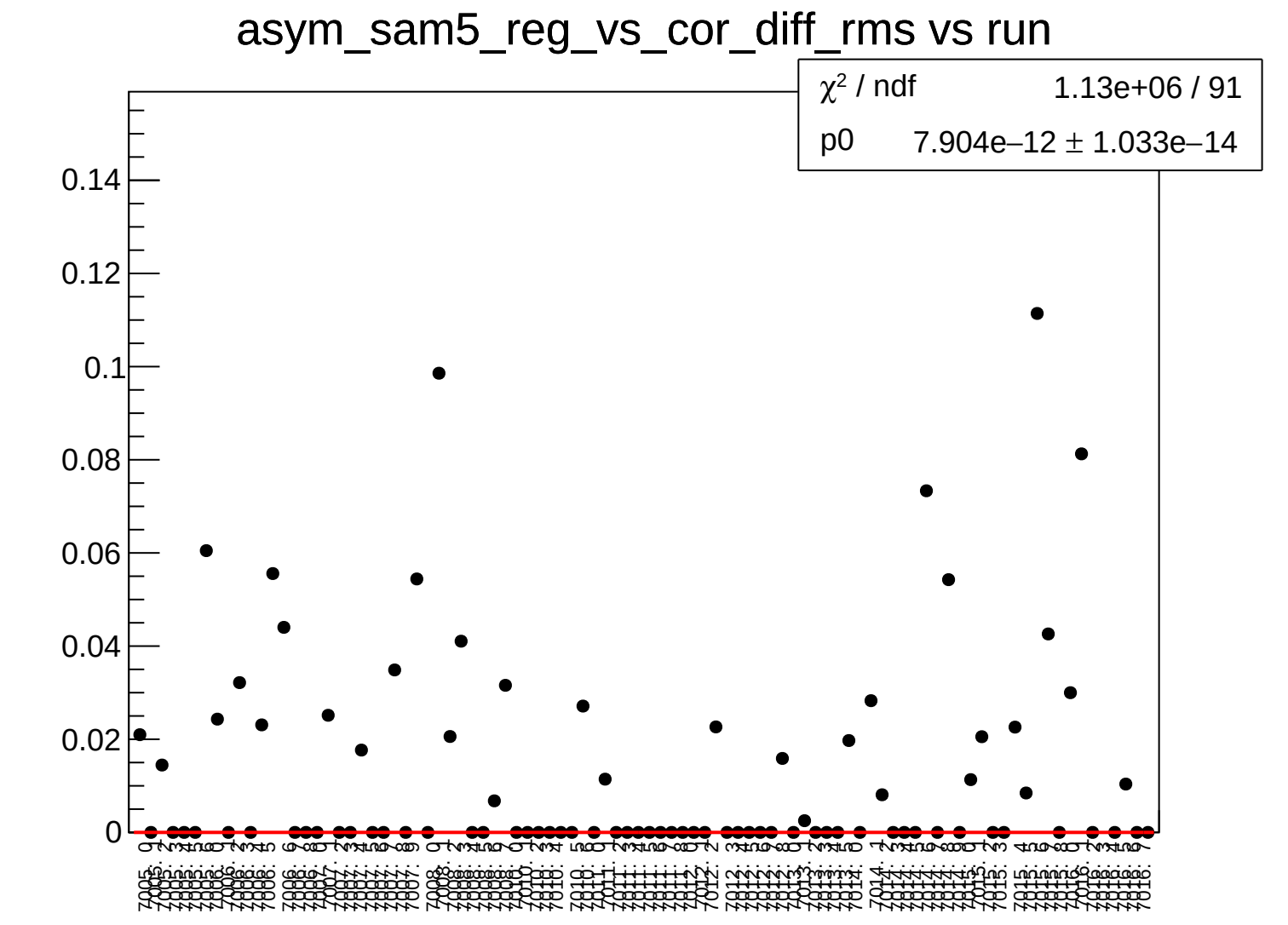

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 5668 / 91
p0 893.2 ± 0.6831
1000
950
900
850
800

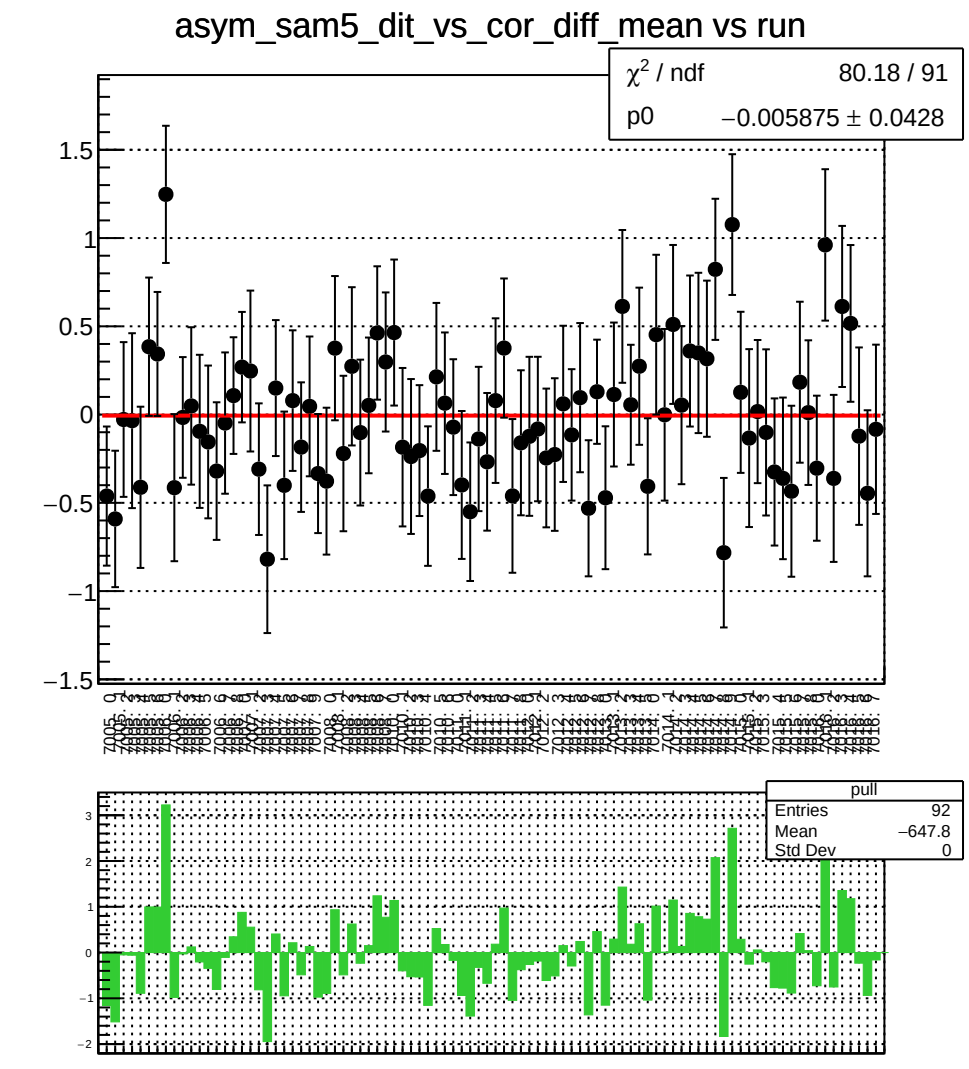

asym_sam5_mean vs run
χ² / ndf 89.34 / 91
p0 443.9 ± 948.2
pull
Entries 92
Mean 63.03
Std Dev 77.19

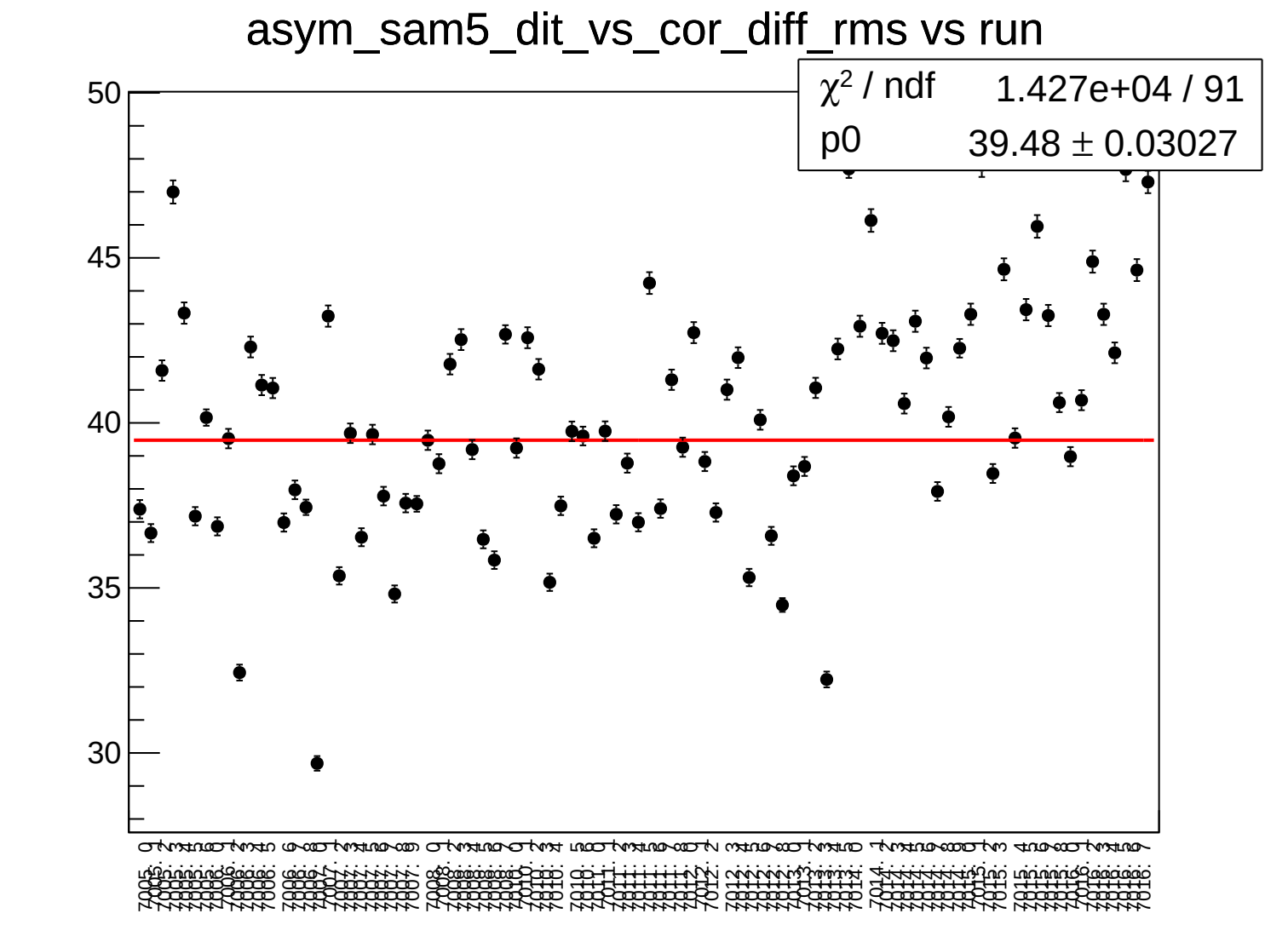

pull1D
Entries 92
Mean 0.01597
Std Dev 0.9853

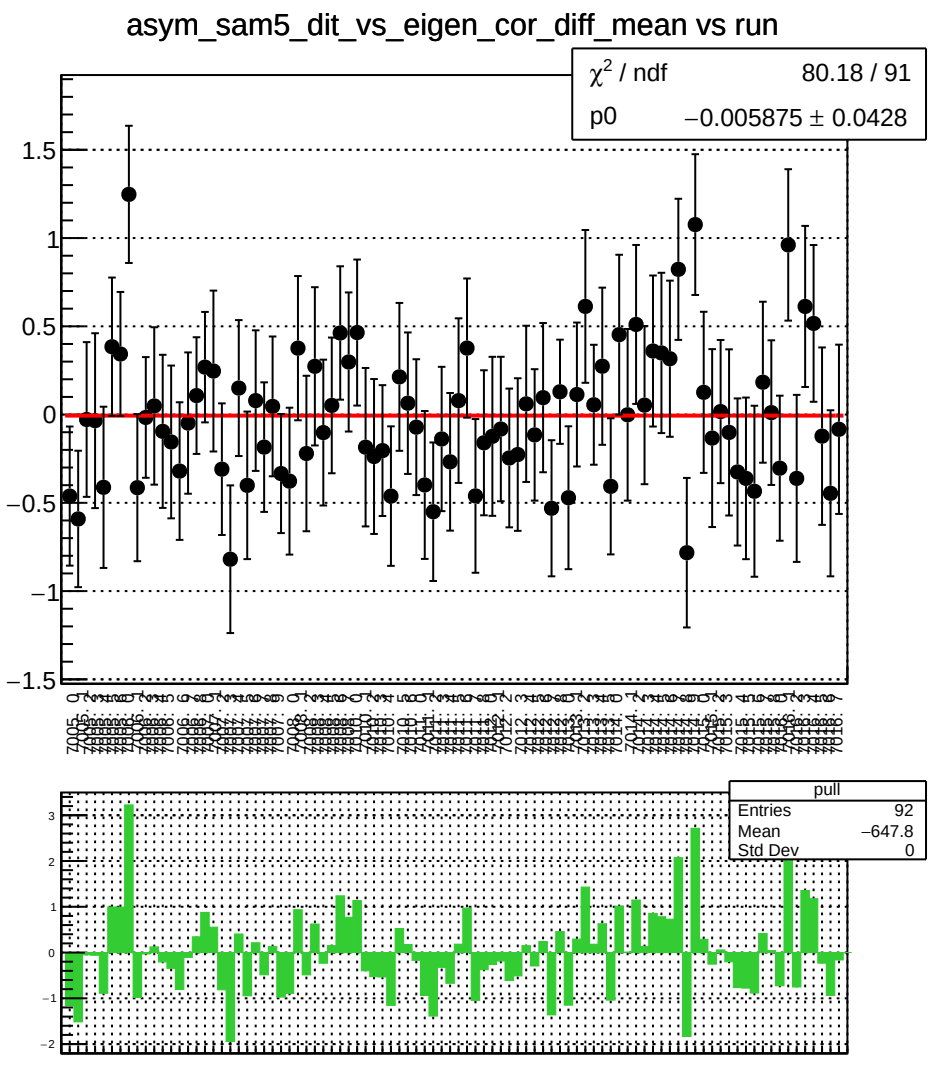

asym_sam5_rms vs run
χ² / ndf 6185 / 91
p0 876.5 ± 0.6705
1000
950
900
850
800
750

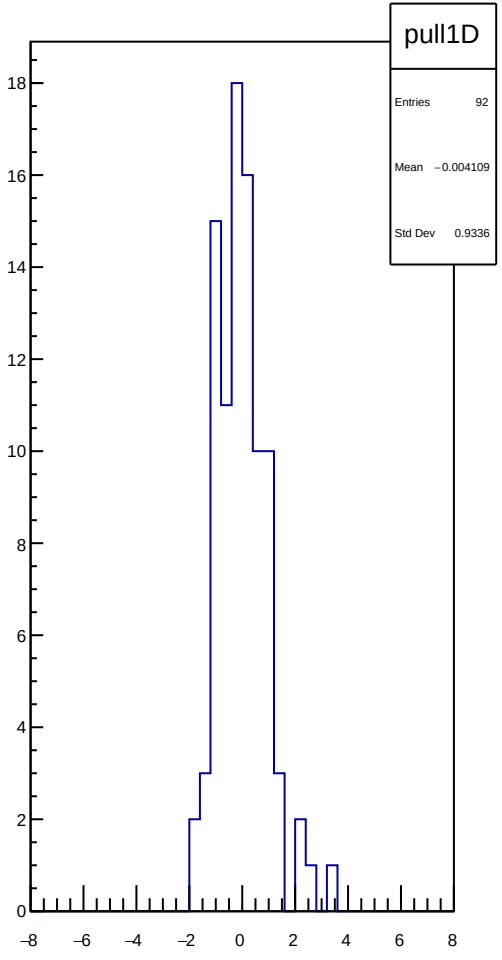

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 91
p0 3.564e−14 ± 1.461e−14
pull
Entries 92
Mean 10.05
Std Dev 0
pull1D
Entries 92
Mean 0.09021
Std Dev 1.059

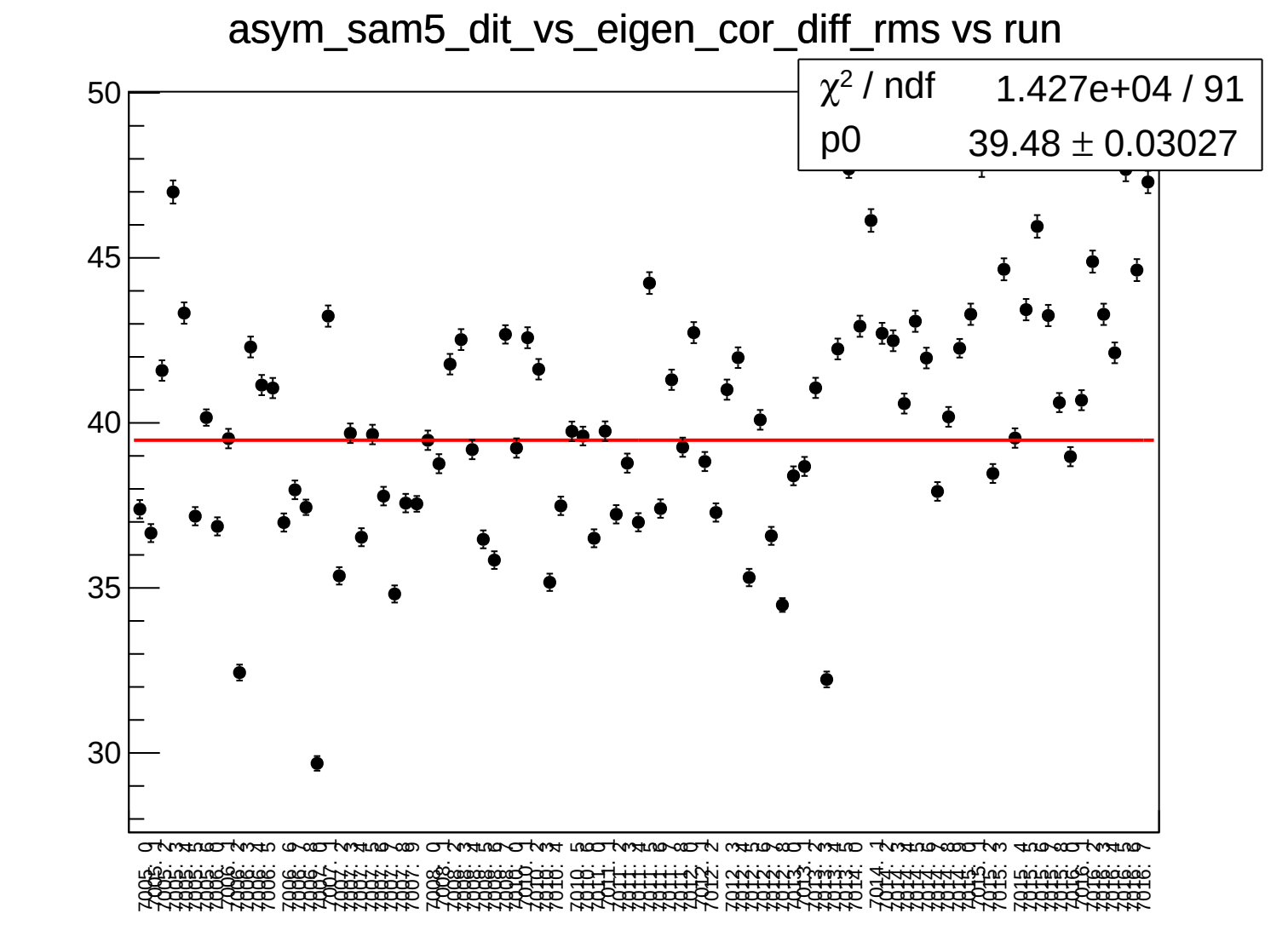

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.13e+06 / 91
p0 7.904e−12 ± 1.033e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

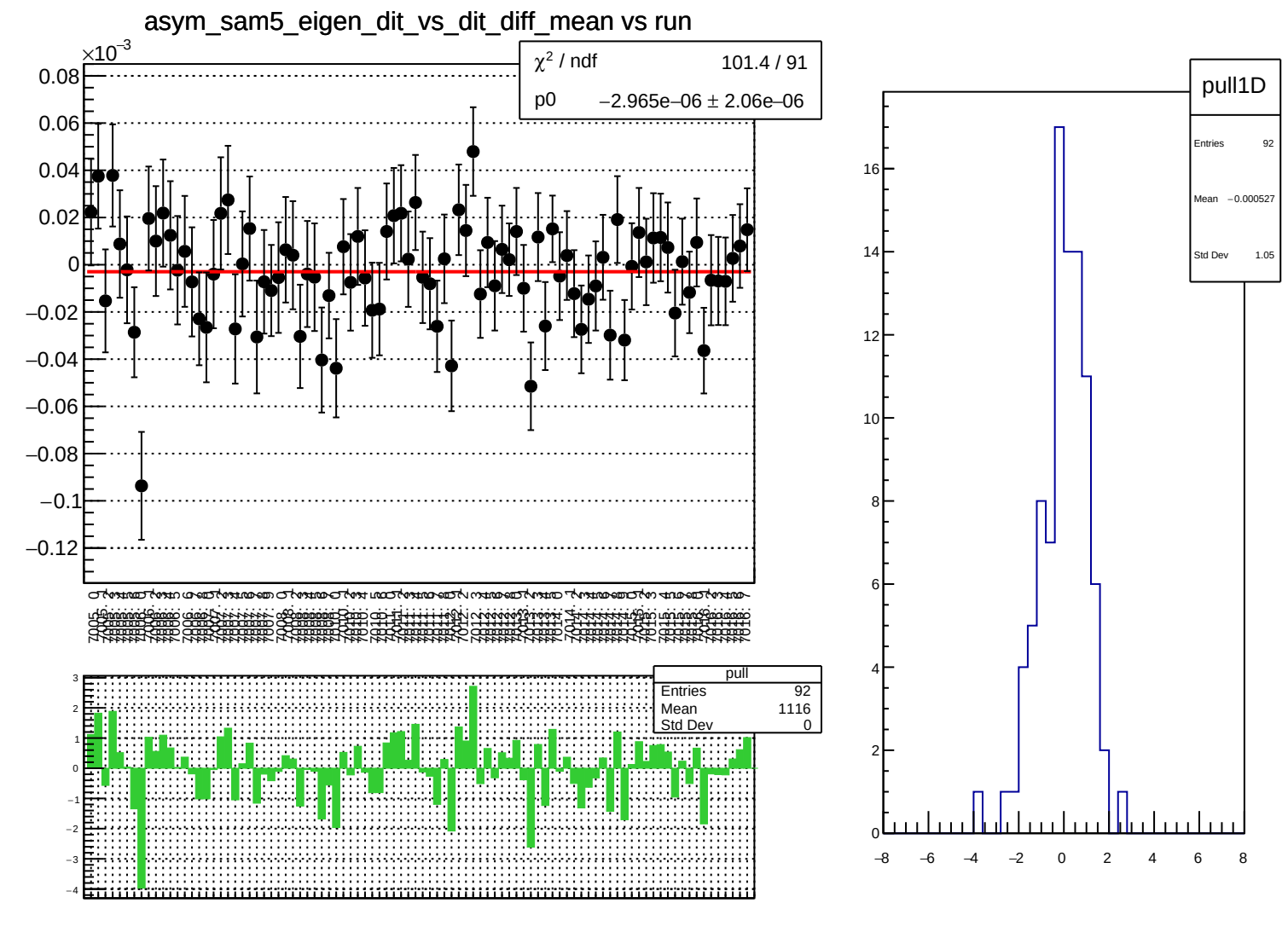

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 80.18 / 91
p0 −0.005875 ± 0.0428
pull
Entries 92
Mean −647.8
Std Dev 0
pull1D
Entries 92
Mean −0.004109
Std Dev 0.9336

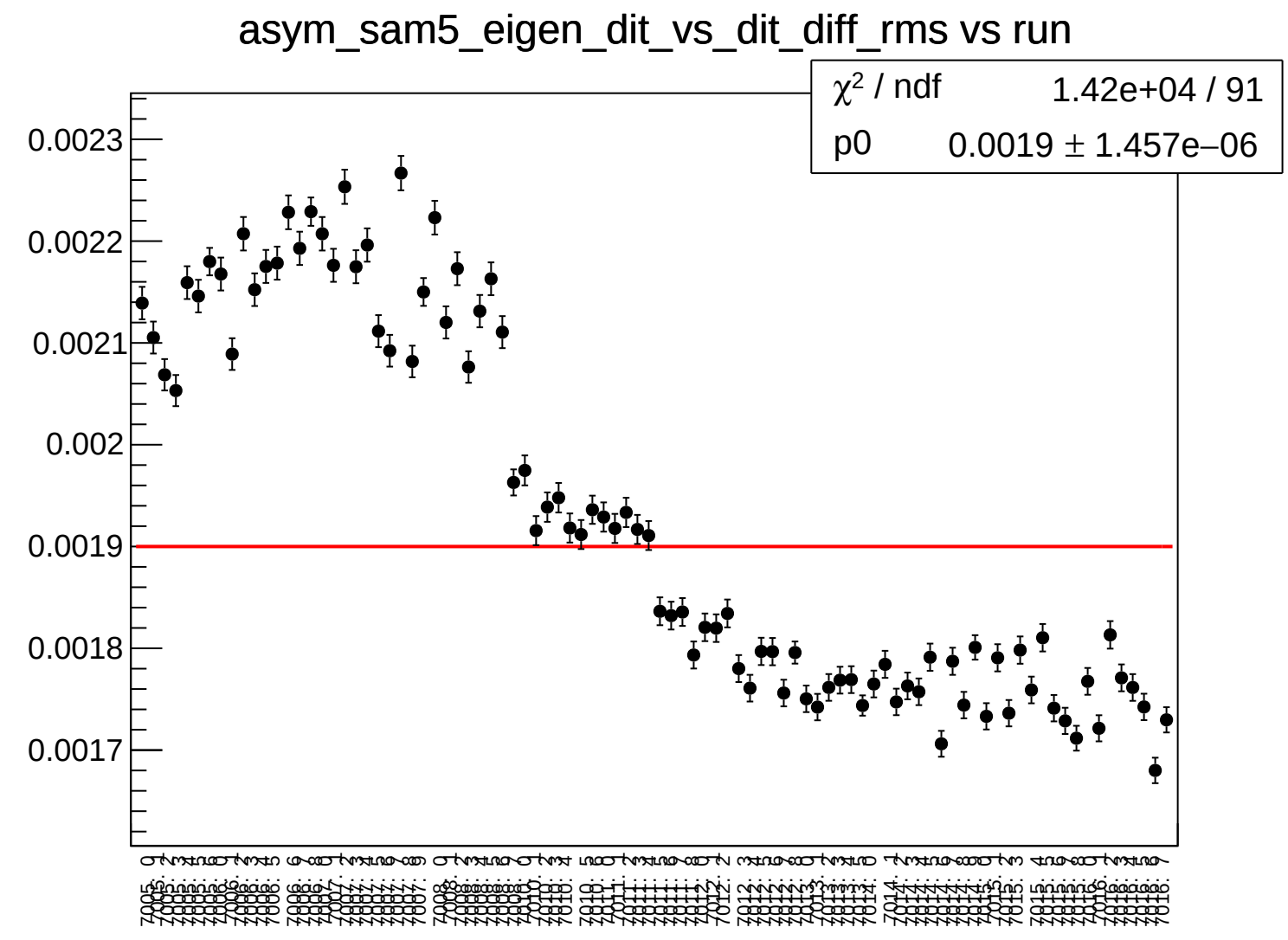

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 1.427e+04 / 91
p0 39.48 ± 0.03027
50
45
40
35
30

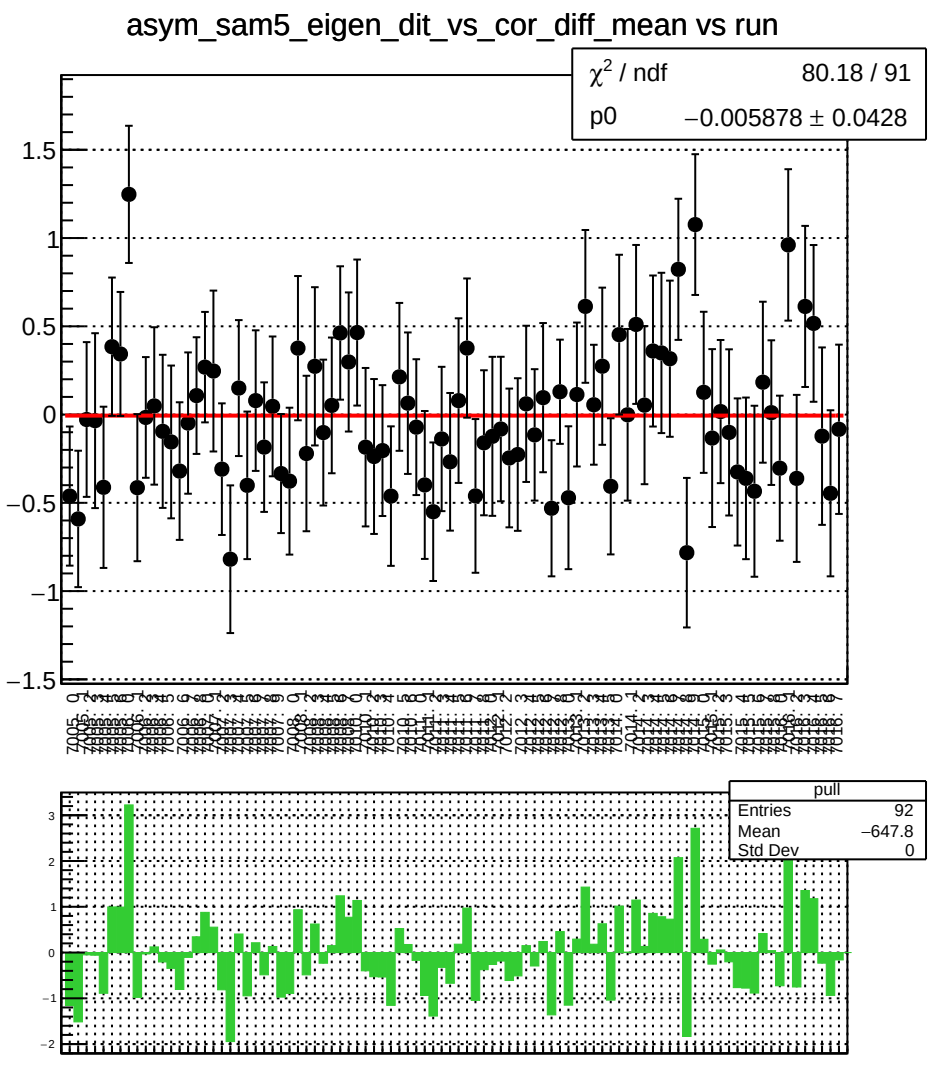

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.18 / 91
p0 −0.005875 ± 0.0428
pull
Entries 92
Mean −647.8
Std Dev 0

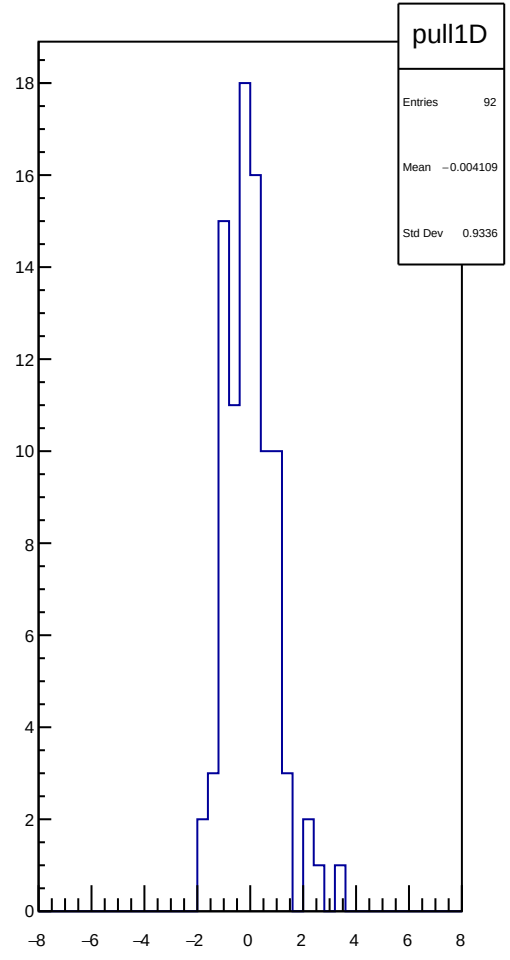

pull1D
Entries 92
Mean −0.004109
Std Dev 0.9336

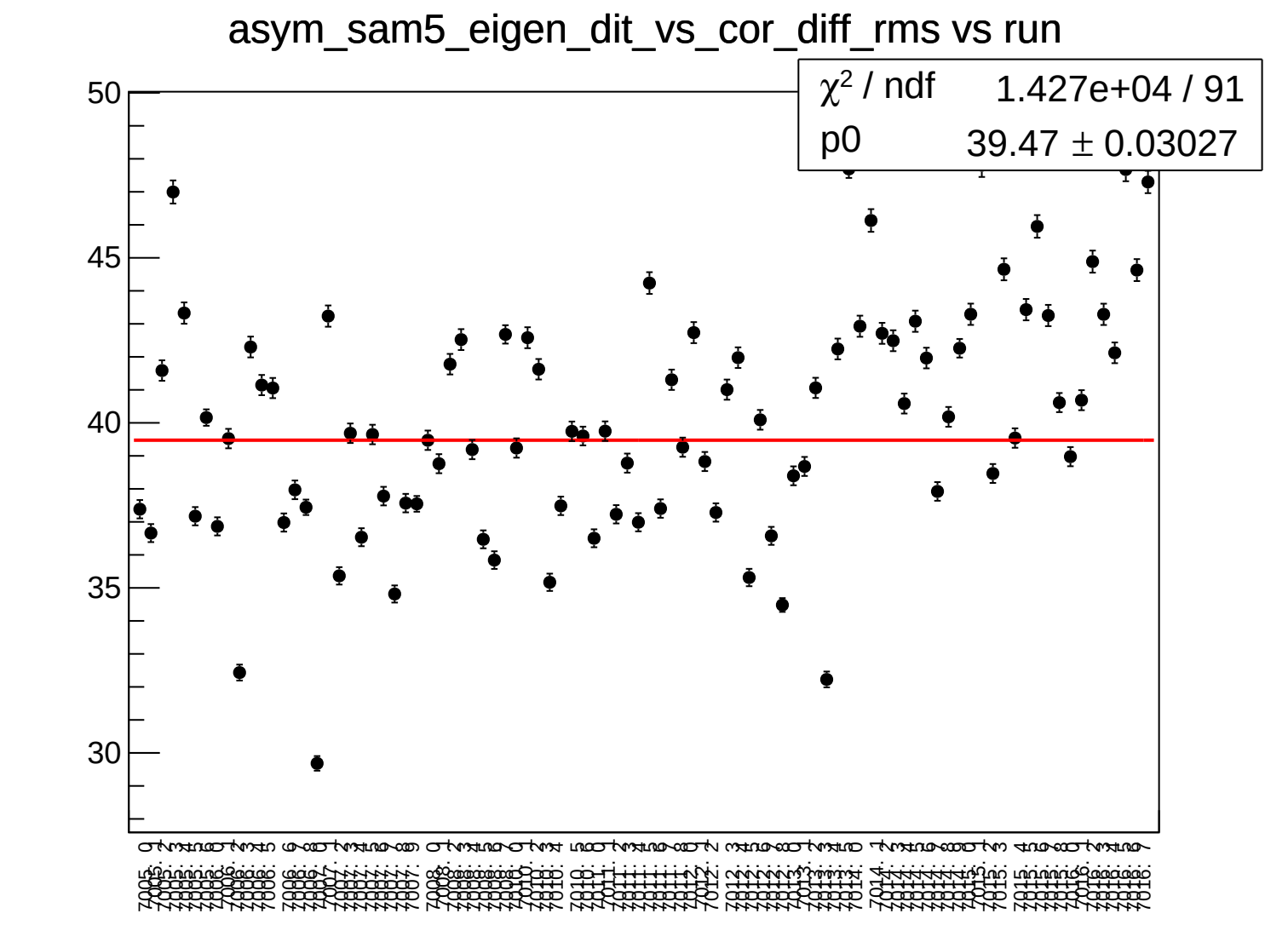

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.427e+04 / 91
p0 39.48 ± 0.03027
50
45
40
35
30

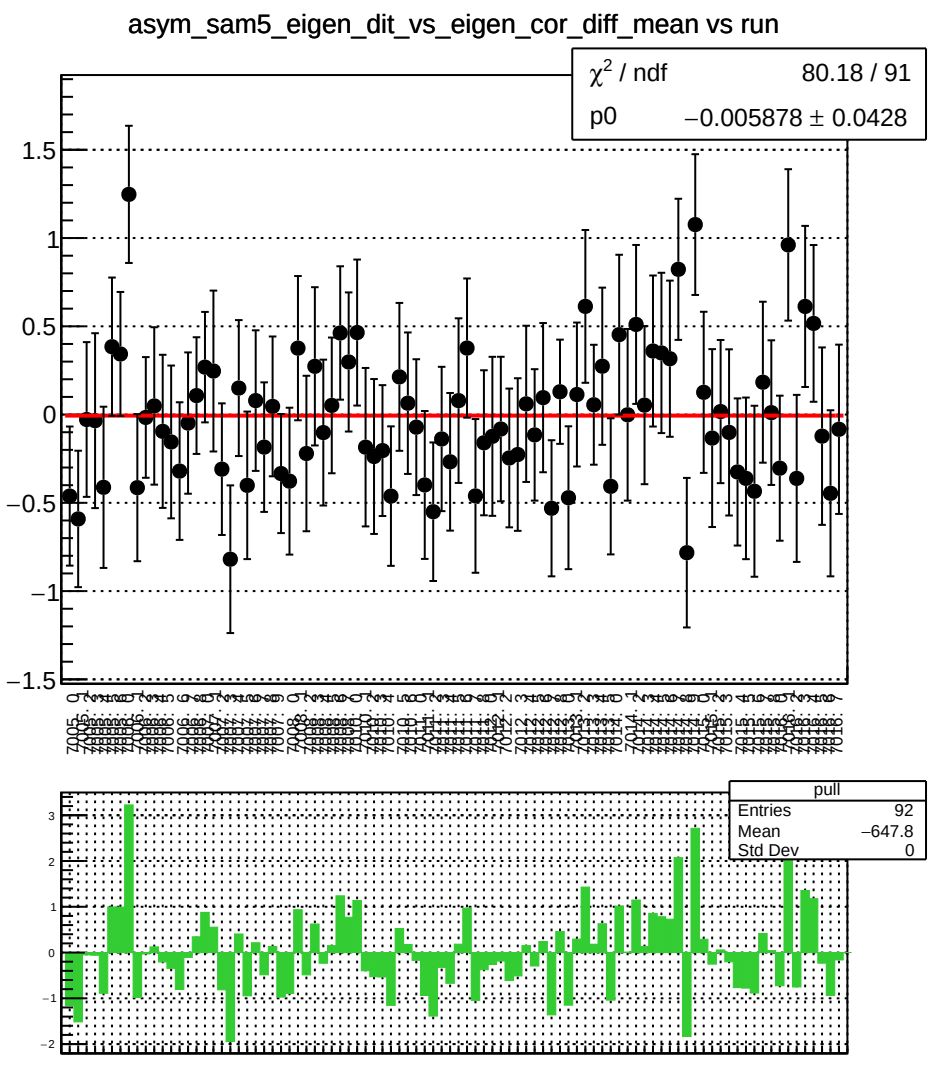

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.4 / 91
p0 −2.965e−06 ± 2.06e−06
pull
Entries 92
Mean 1116
Std Dev 0
pull1D
Entries 92
Mean −0.000527
Std Dev 1.05

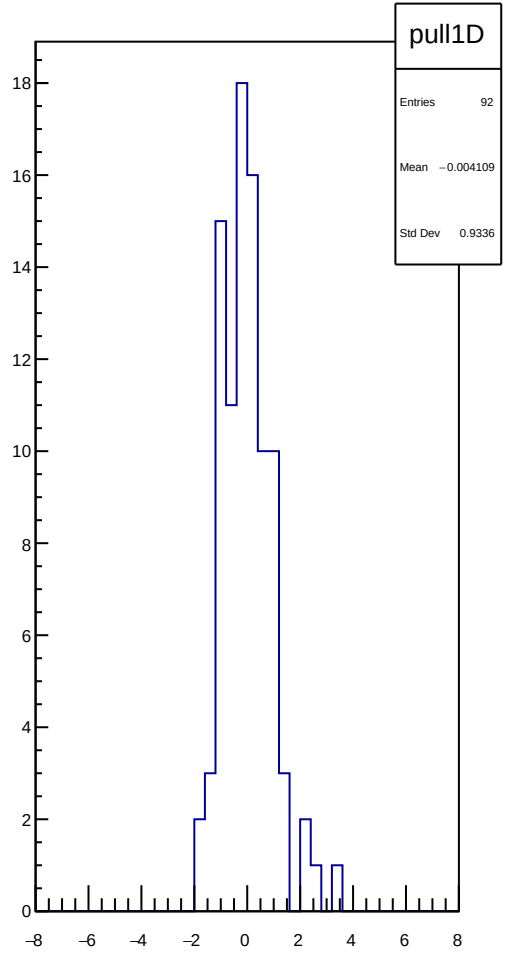

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.42e+04 / 91
p0 0.0019 ± 1.457e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

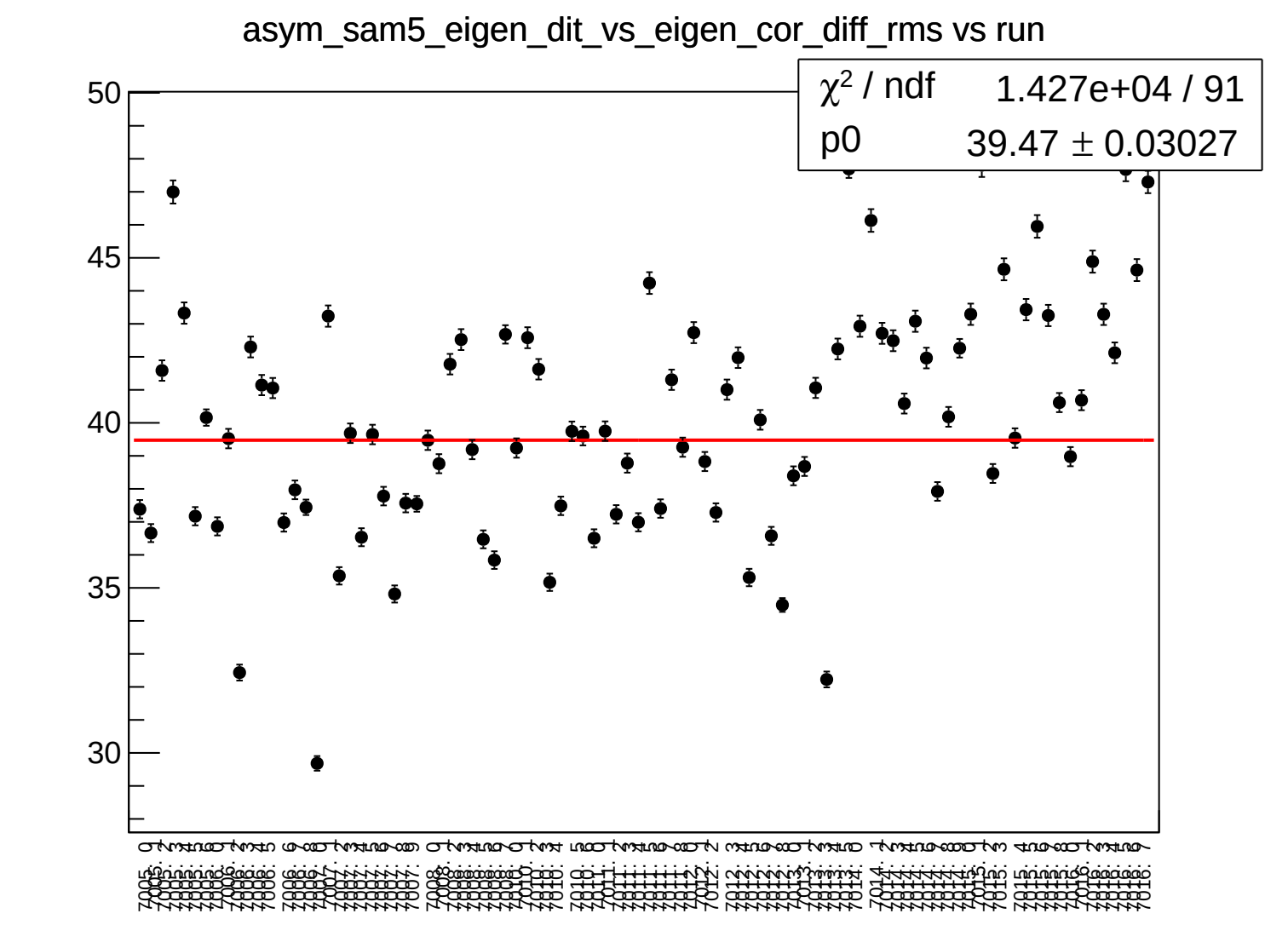

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.18 / 91
p0 −0.005878 ± 0.0428
pull
Entries 92
Mean −647.8
Std Dev 0

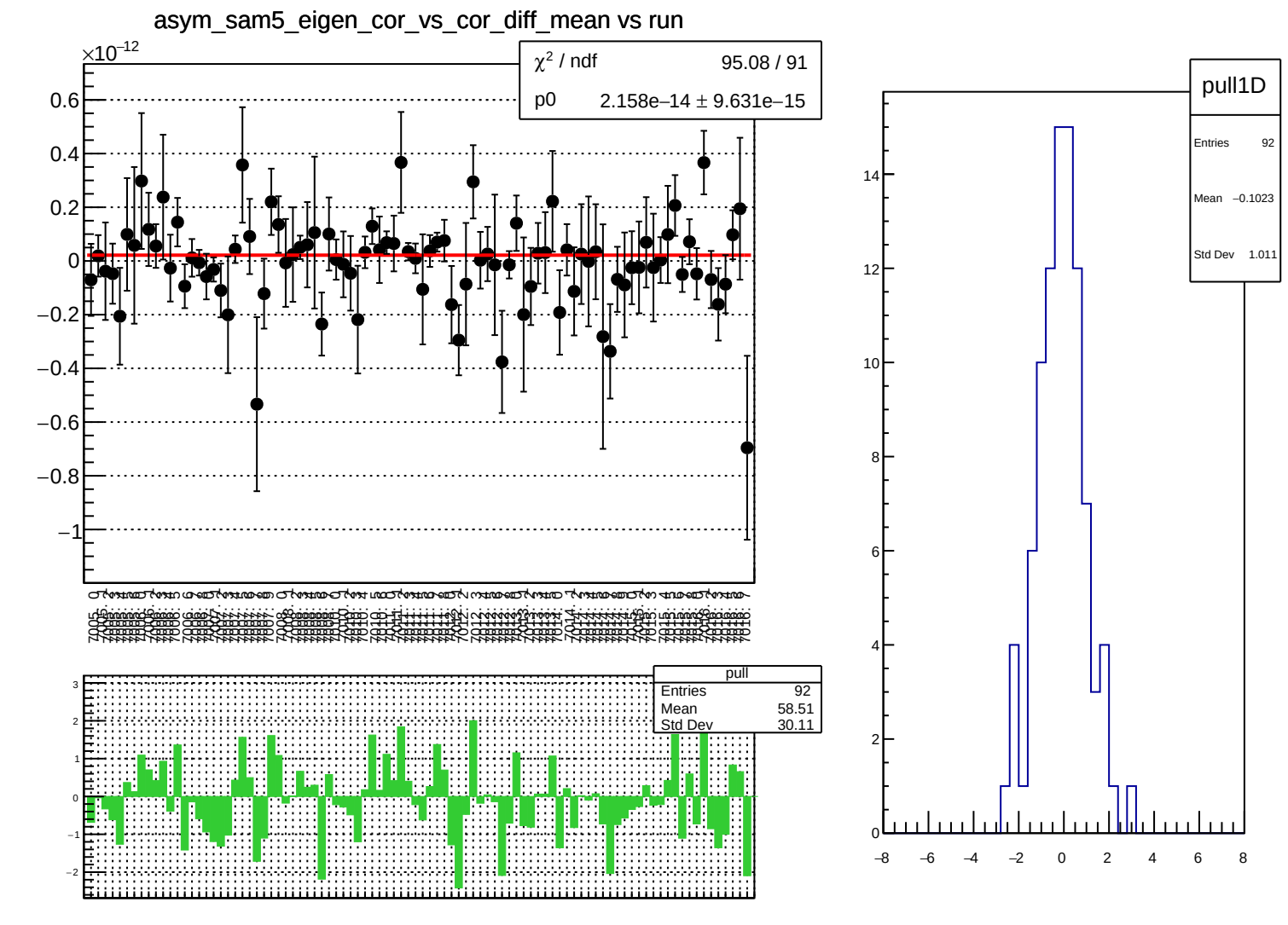

pull1D
Entries 92
Mean −0.004109
Std Dev 0.9336

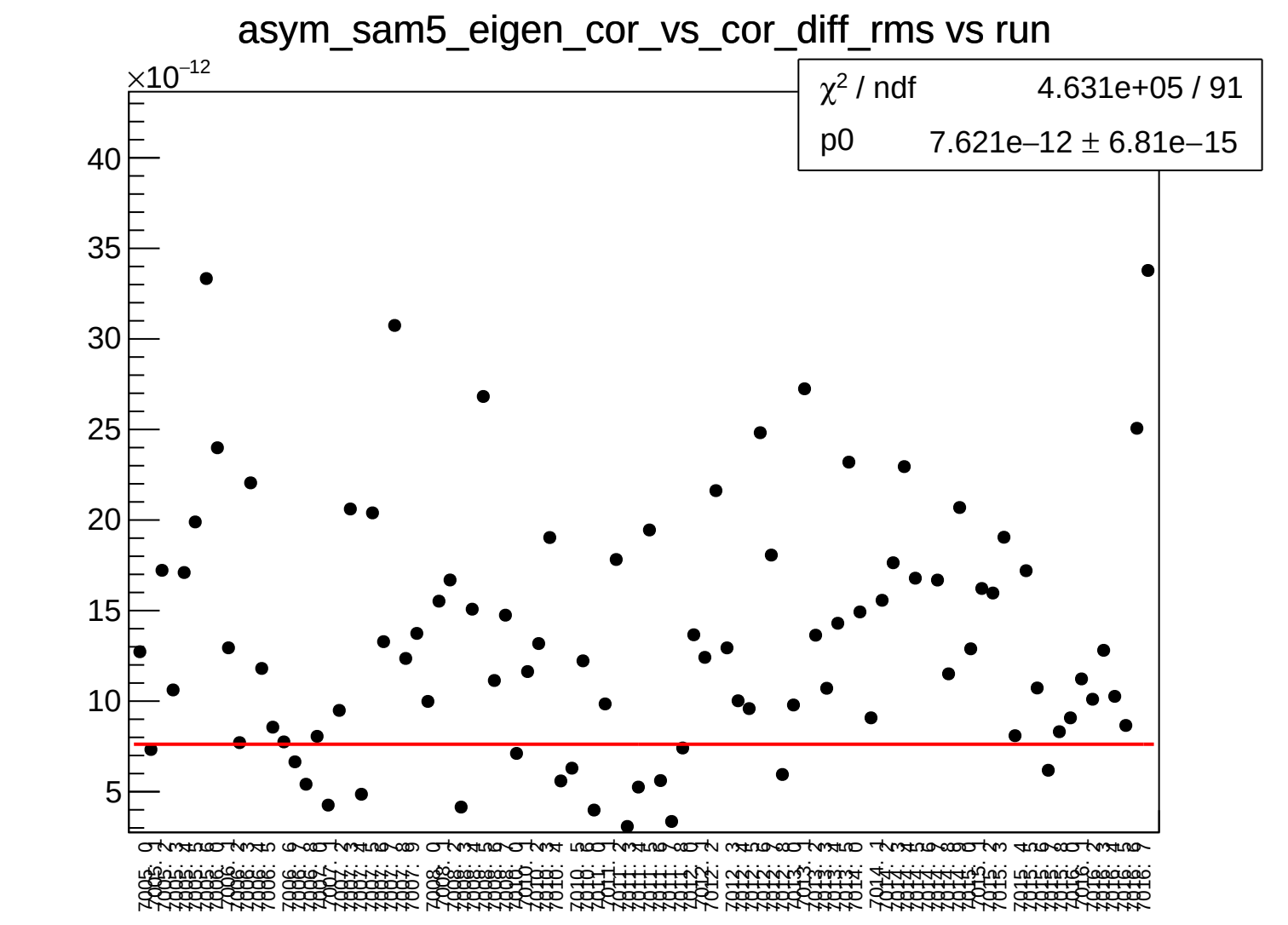

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.427e+04 / 91
p0 39.47 ± 0.03027
50
45
40
35
30

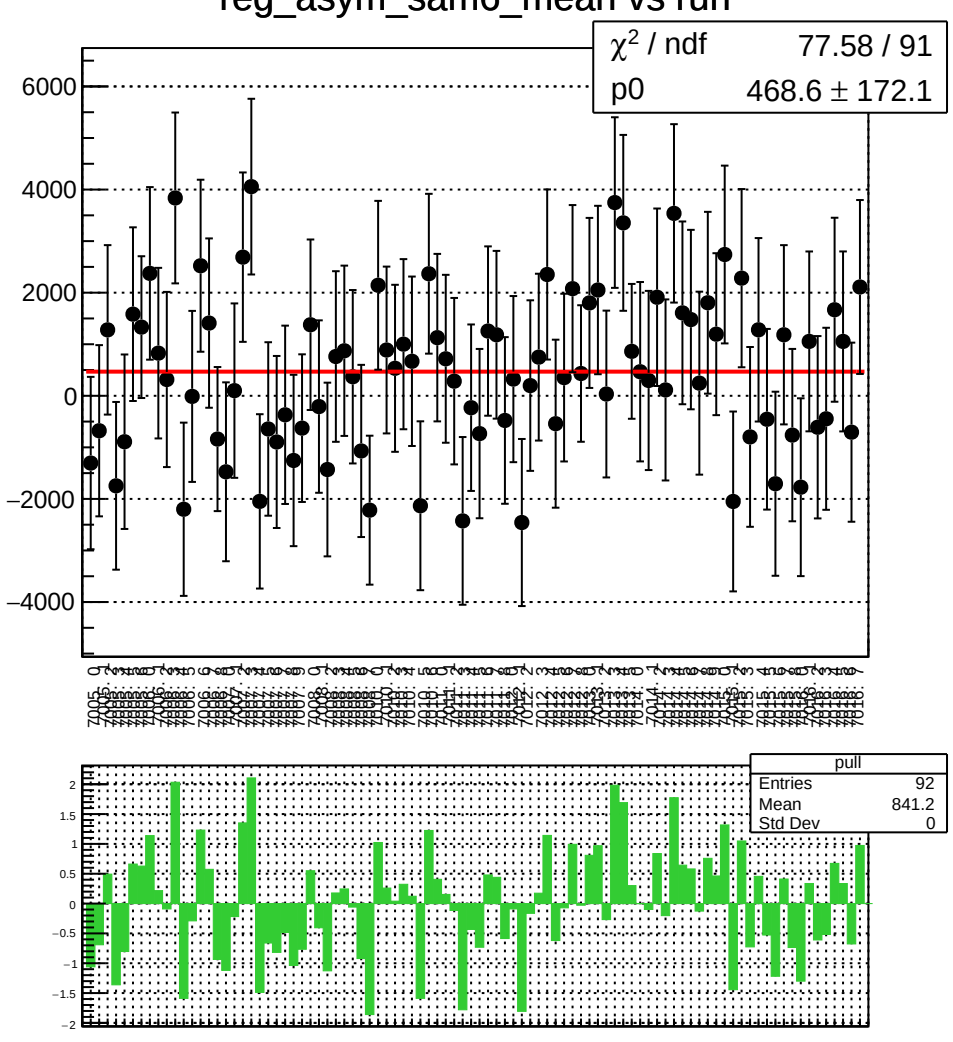

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.18 / 91
p0 −0.005878 ± 0.0428
pull
Entries 92
Mean −647.8
Std Dev 0

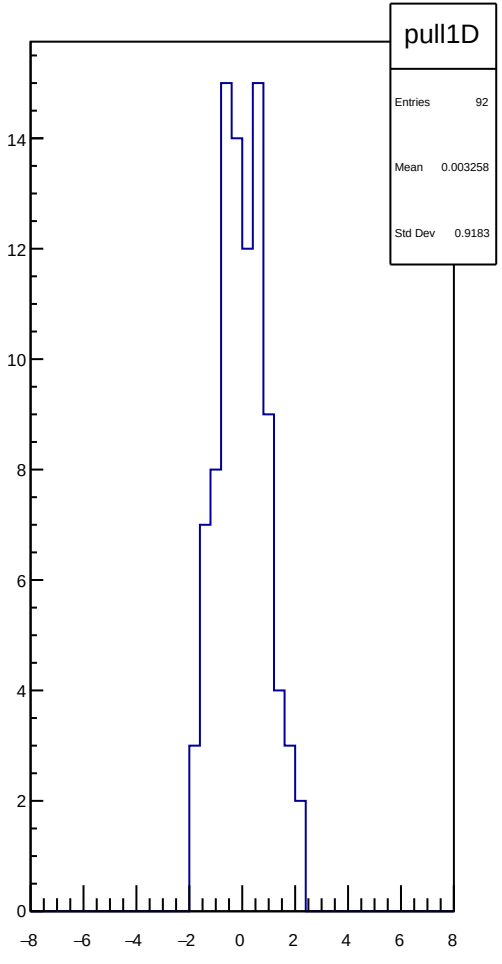

pull1D
Entries 92
Mean −0.004109
Std Dev 0.9336

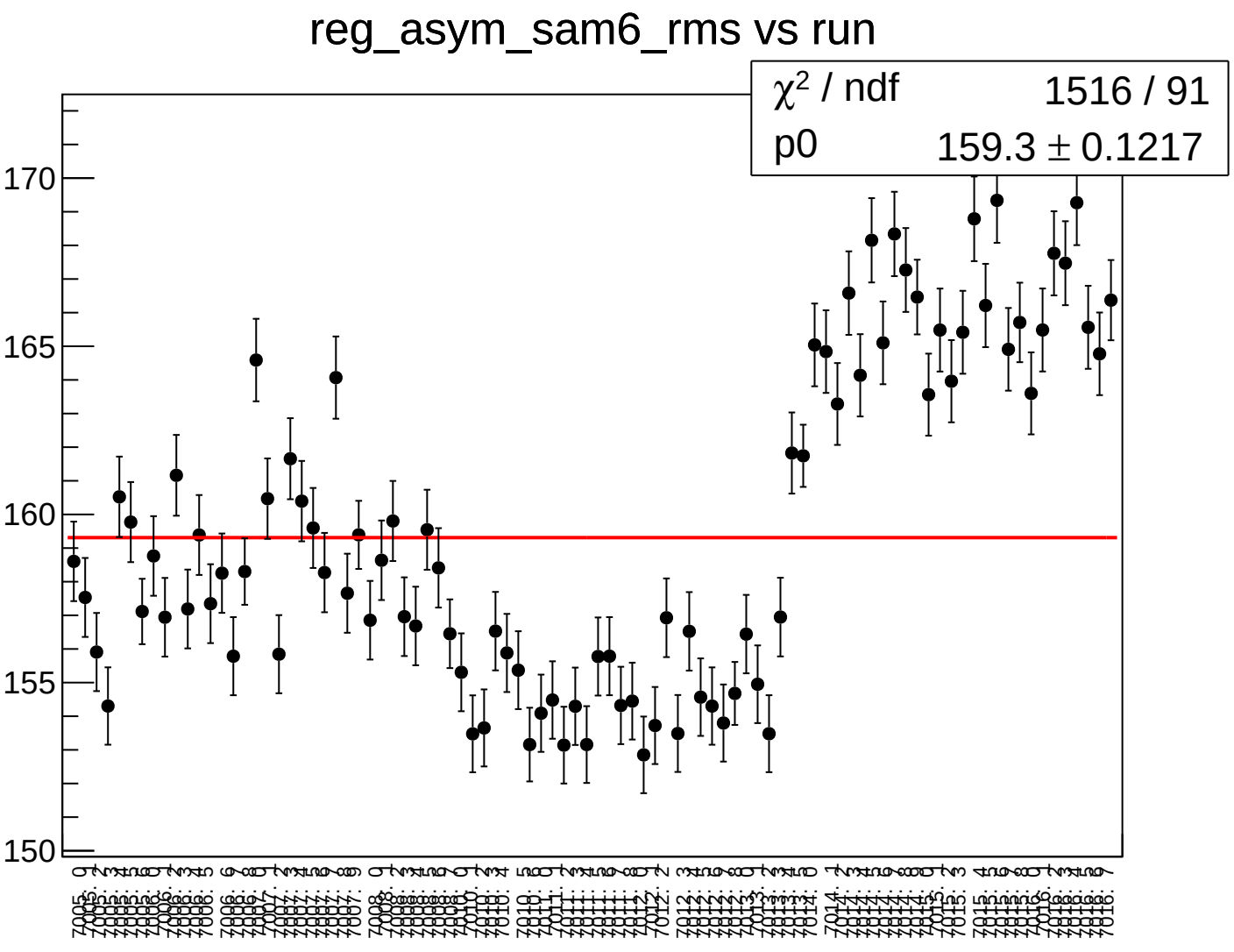

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.427e+04 / 91
p0 39.47 ± 0.03027
50
45
40
35
30

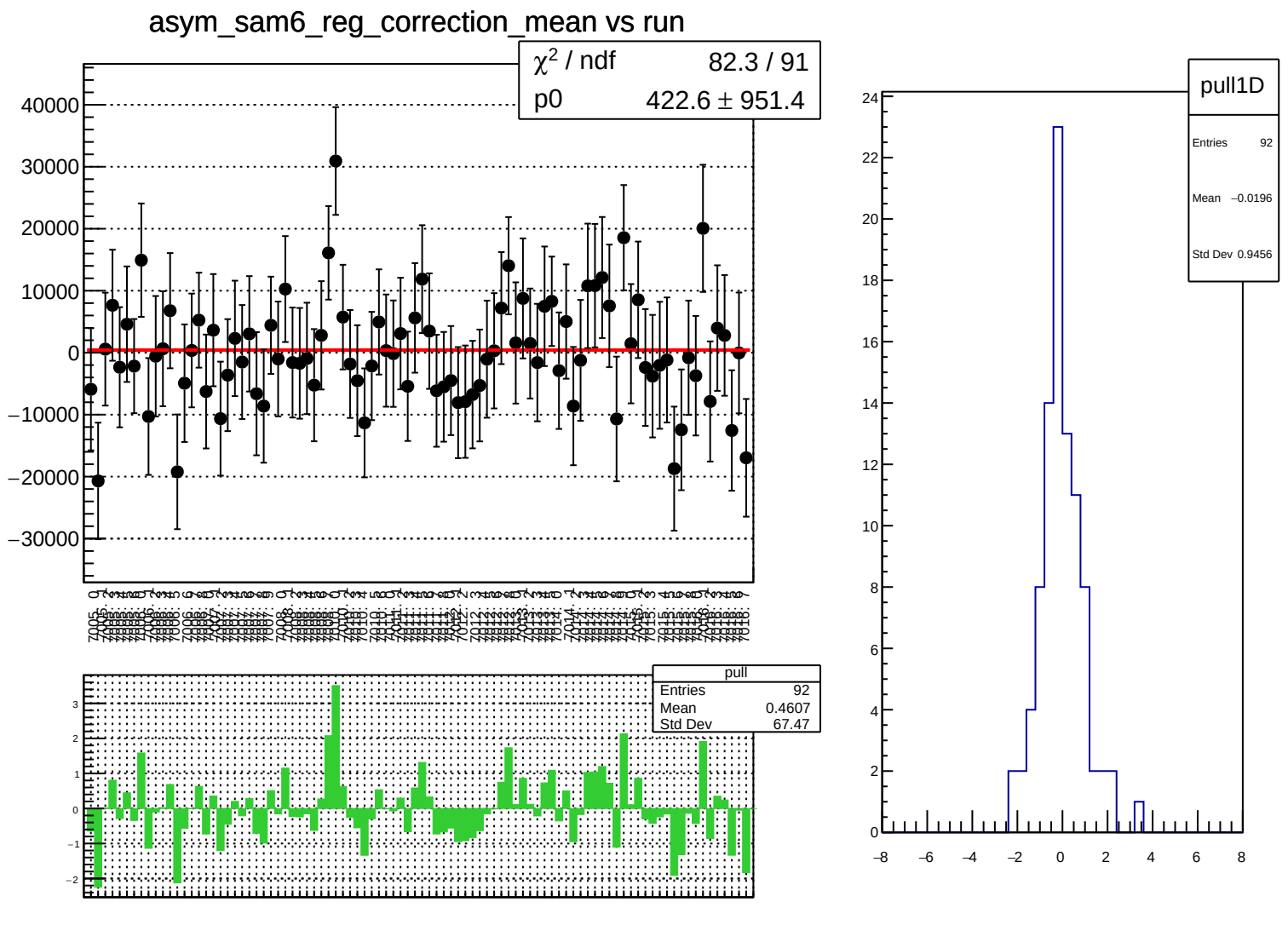

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.08 / 91
p0 2.158e−14 ± 9.631e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 92
Mean 58.51
Std Dev 30.11
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.1023
Std Dev 1.011
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

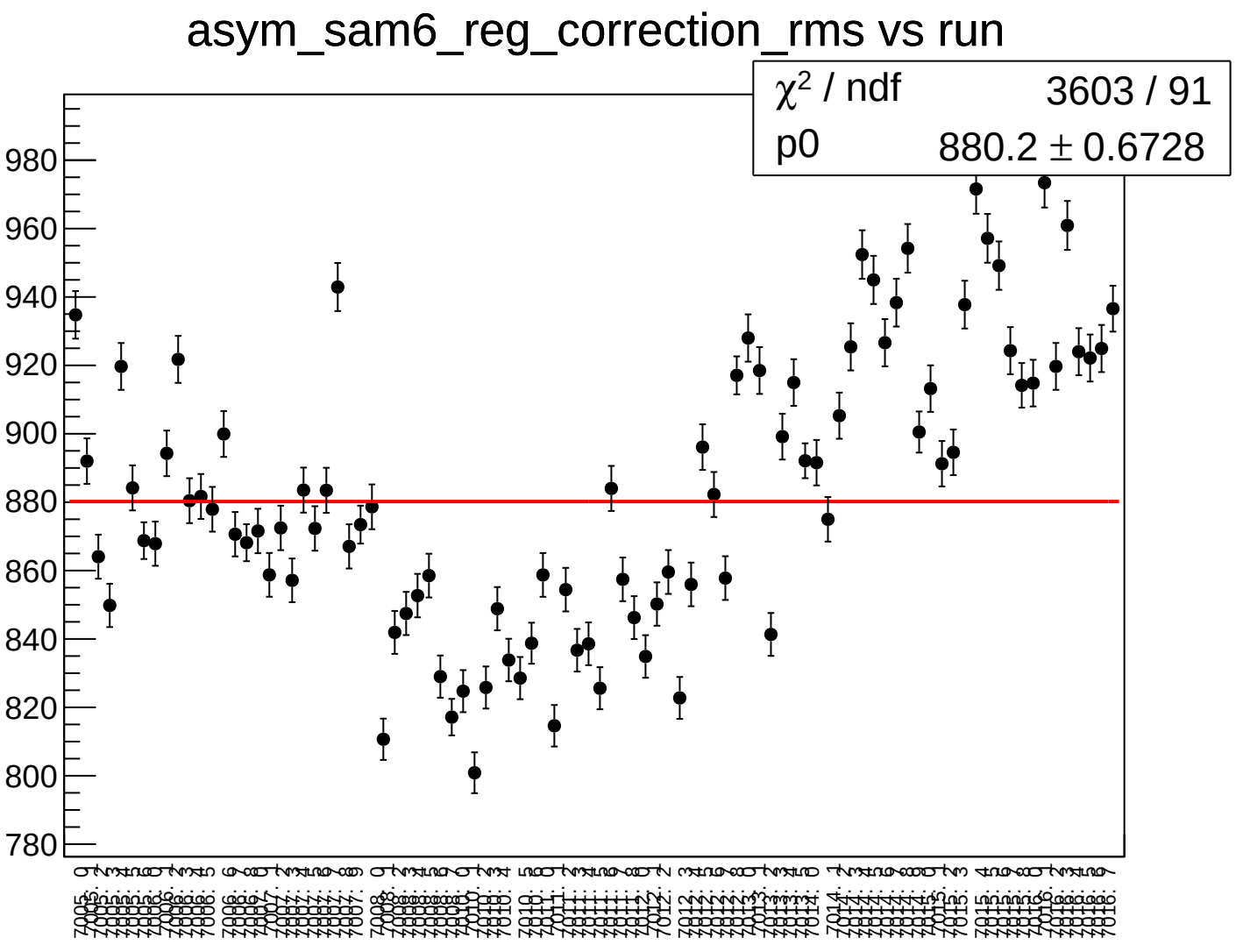

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.631e+05 / 91
p0 7.621e−12 ± 6.81e−15
40
35
30
25
20
15
10
5

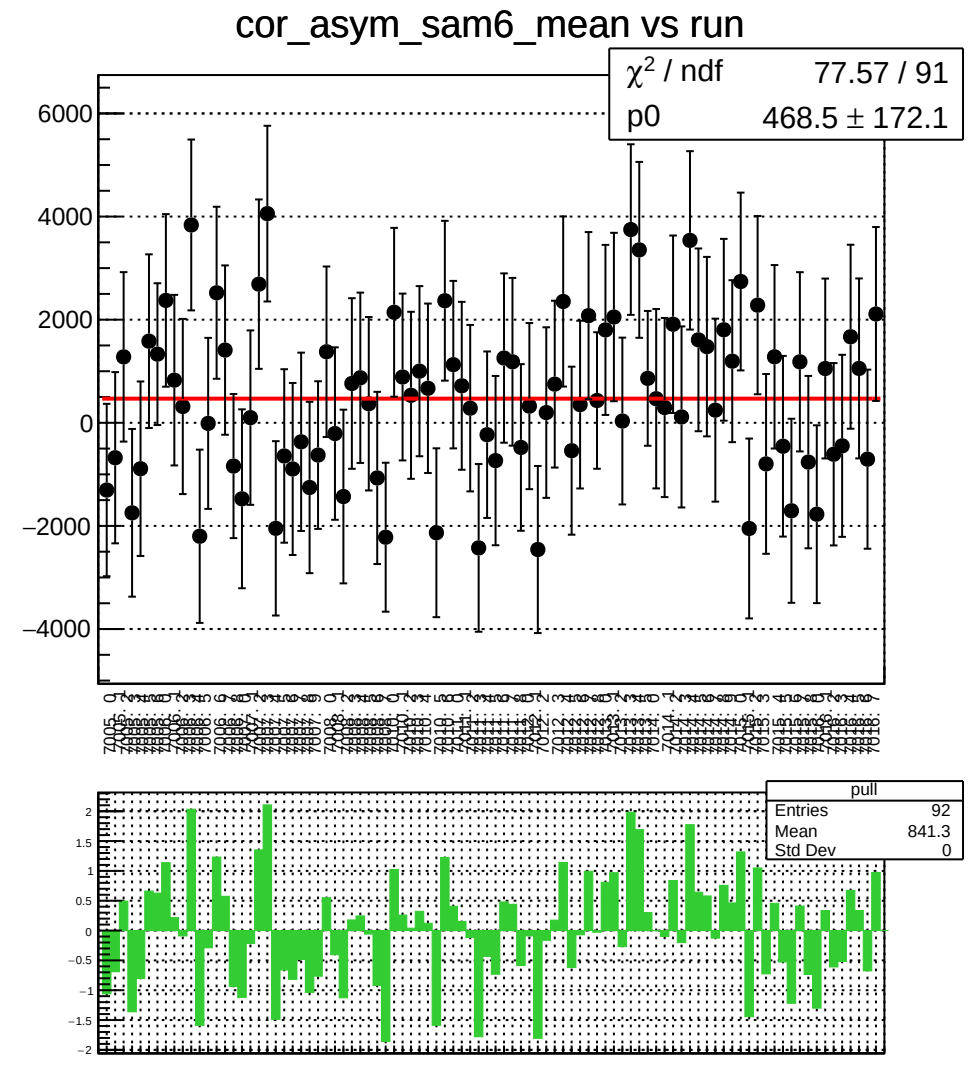

reg_asym_sam6_mean vs run
$\chi^2$ / ndf 77.58 / 91
p0 468.6 ± 172.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 841.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

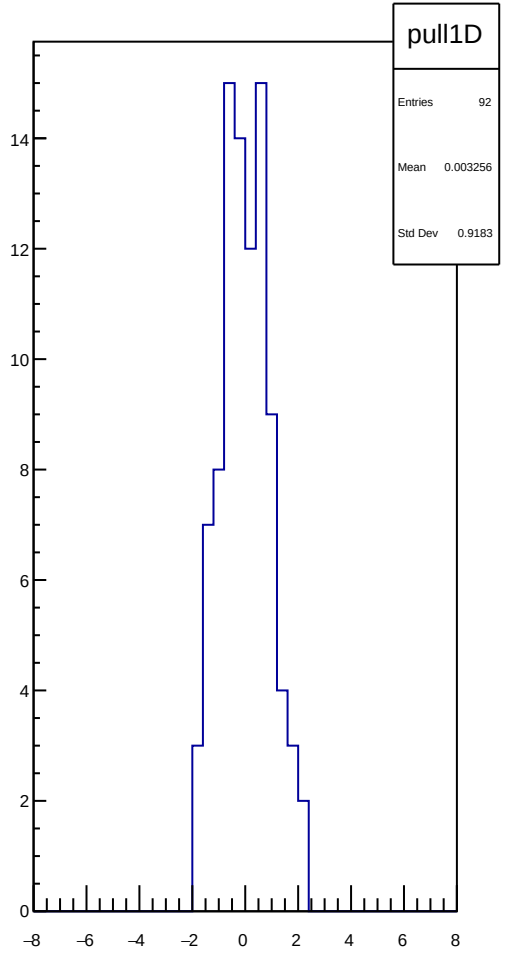

pull1D
Entries 92
Mean 0.003258
Std Dev 0.9183
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

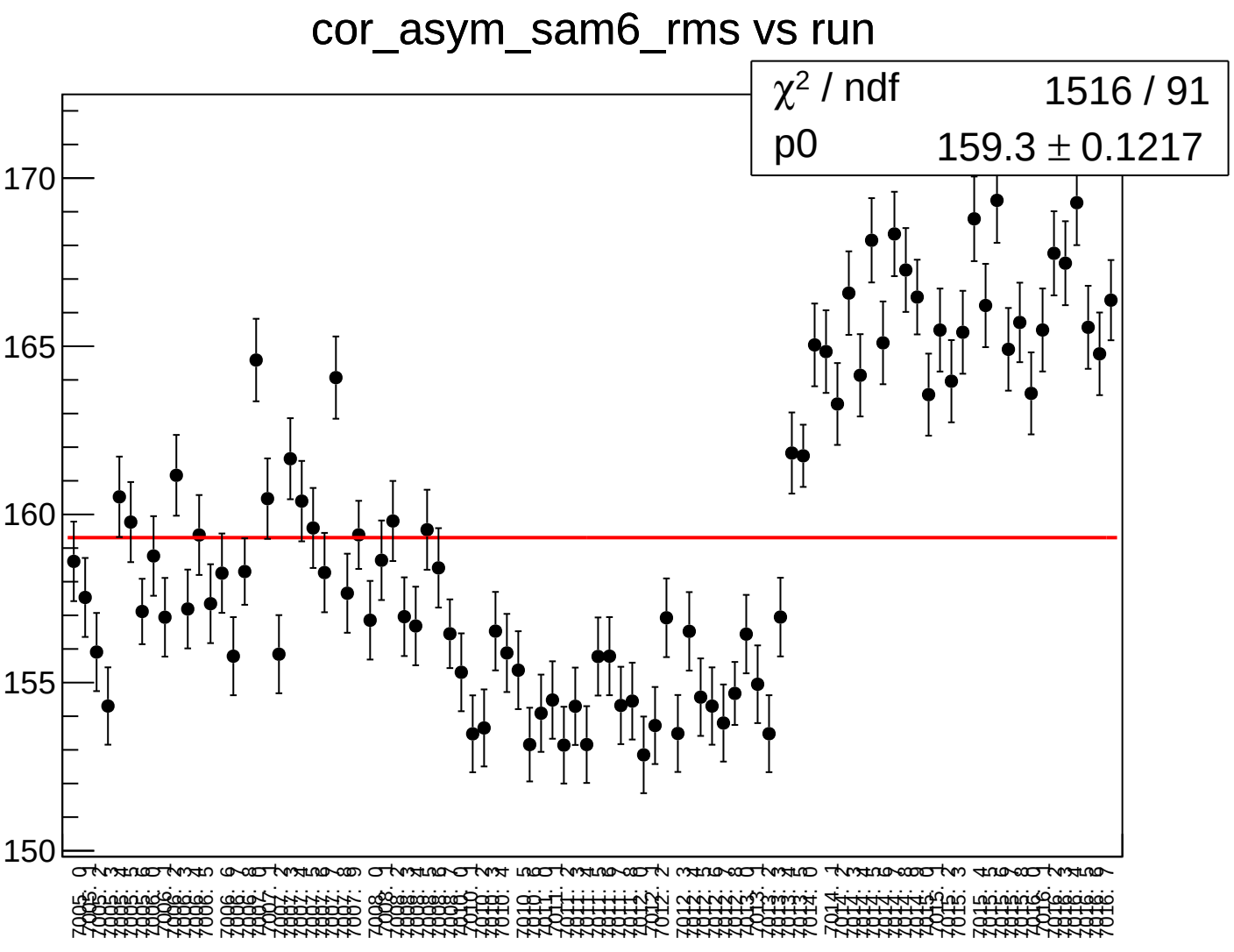

reg_asym_sam6_rms vs run
χ² / ndf 1516 / 91
p0 159.3 ± 0.1217
170
165
160
155
150

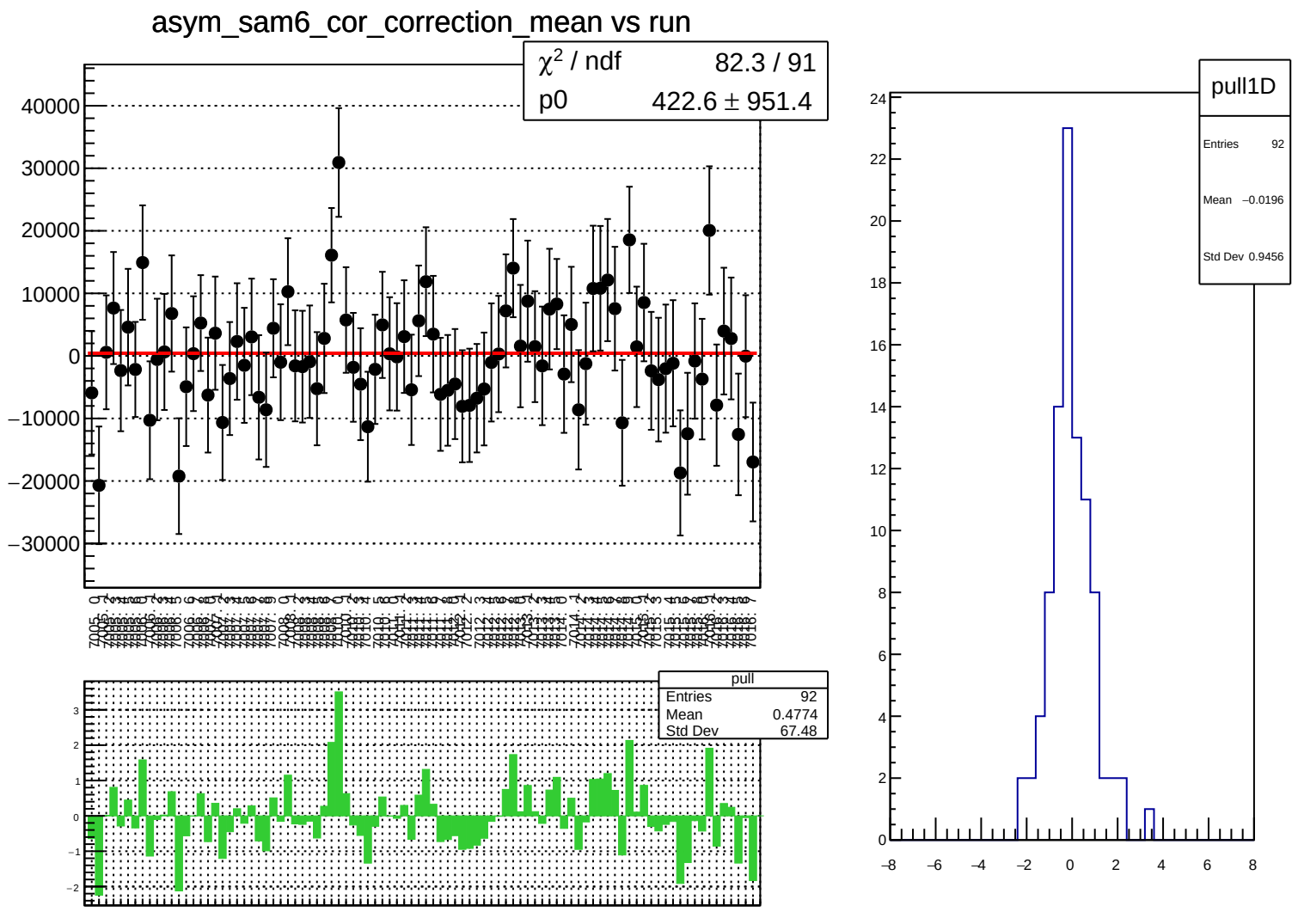

asym_sam6_reg_correction_mean vs run
χ² / ndf 82.3 / 91
p0 422.6 ± 951.4
pull
Entries 92
Mean 0.4607
Std Dev 67.47
pull1D
Entries 92
Mean −0.0196
Std Dev 0.9456

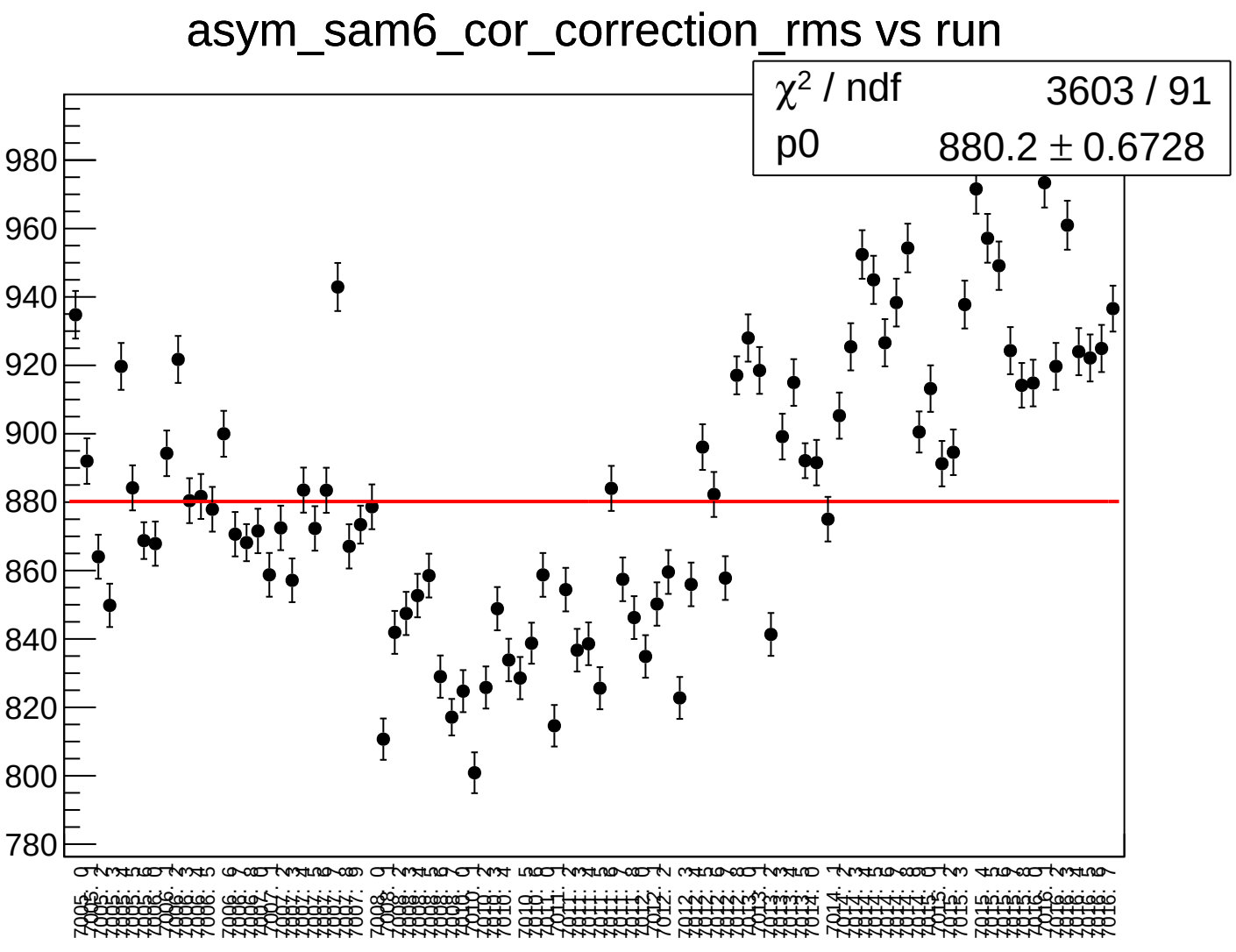

asym_sam6_reg_correction_rms vs run
χ² / ndf 3603 / 91
p0 880.2 ± 0.6728
980
960
940
920
900
880
860
840
820
800
780

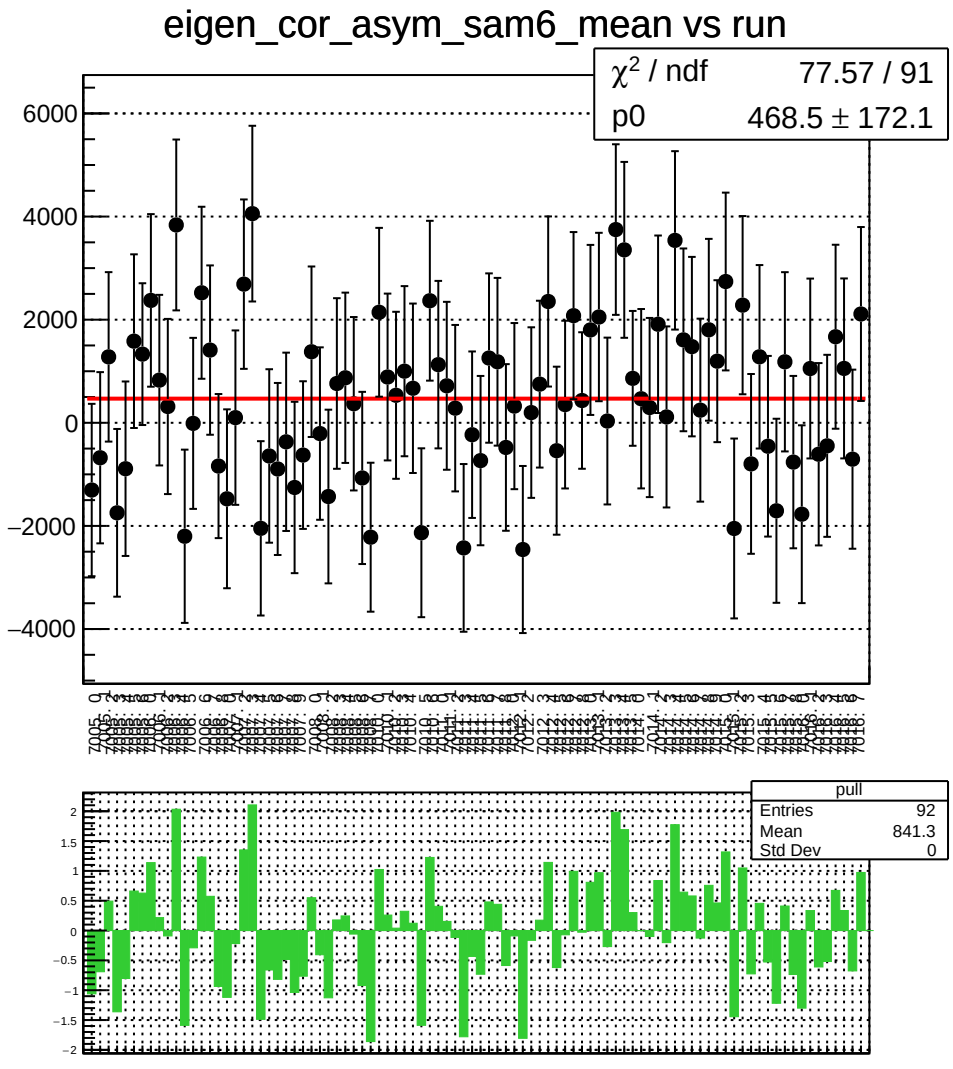

cor_asym_sam6_mean vs run
$\chi^2$ / ndf 77.57 / 91
p0 468.5 ± 172.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 841.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

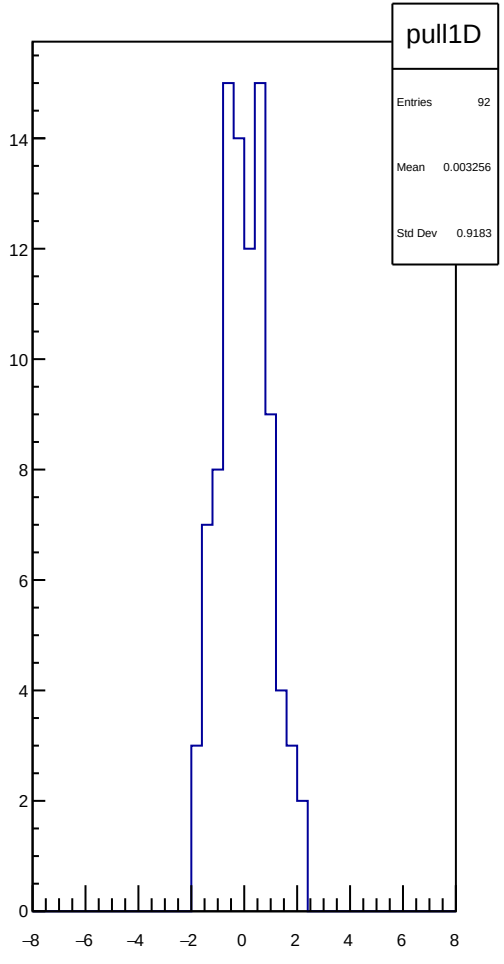

pull1D
Entries 92
Mean 0.003256
Std Dev 0.9183
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

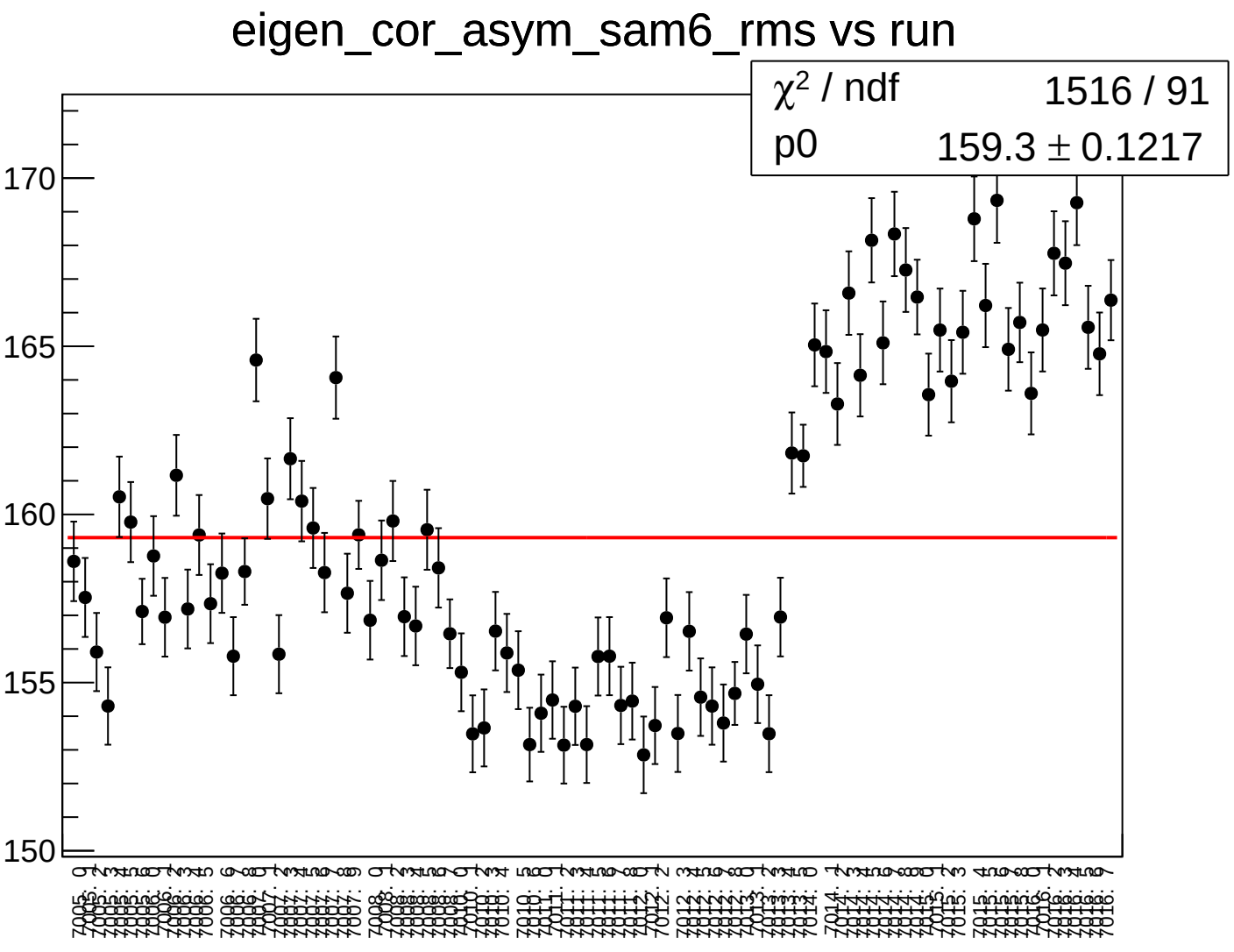

cor_asym_sam6_rms vs run
$\chi^2$ / ndf 1516 / 91
p0 159.3 ± 0.1217
170
165
160
155
150

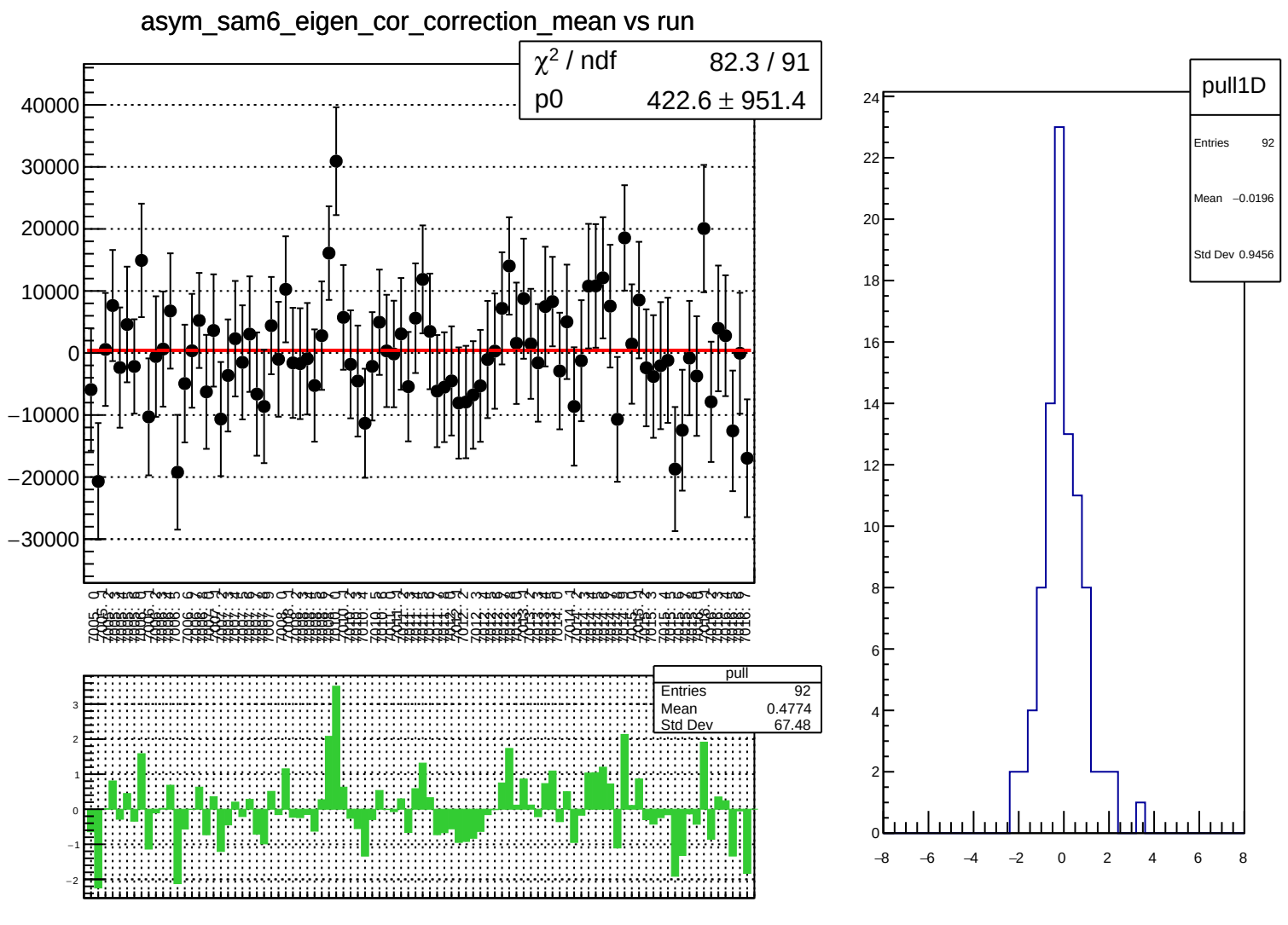

asym_sam6_cor_correction_mean vs run
χ² / ndf 82.3 / 91
p0 422.6 ± 951.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 0.4774
Std Dev 67.48
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.0196
Std Dev 0.9456
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

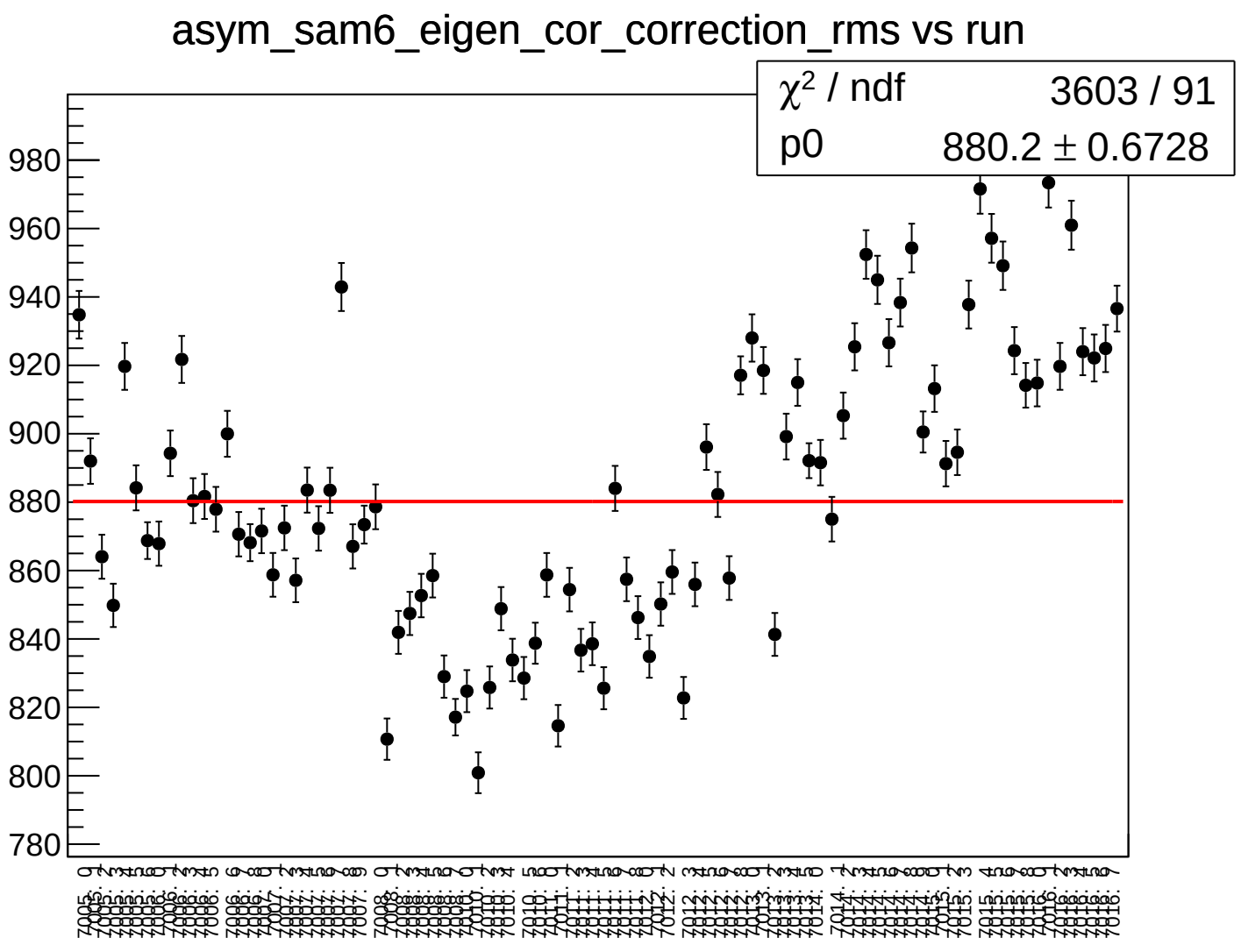

asym_sam6_cor_correction_rms vs run
χ² / ndf 3603 / 91
p0 880.2 ± 0.6728
980
960
940
920
900
880
860
840
820
800
780

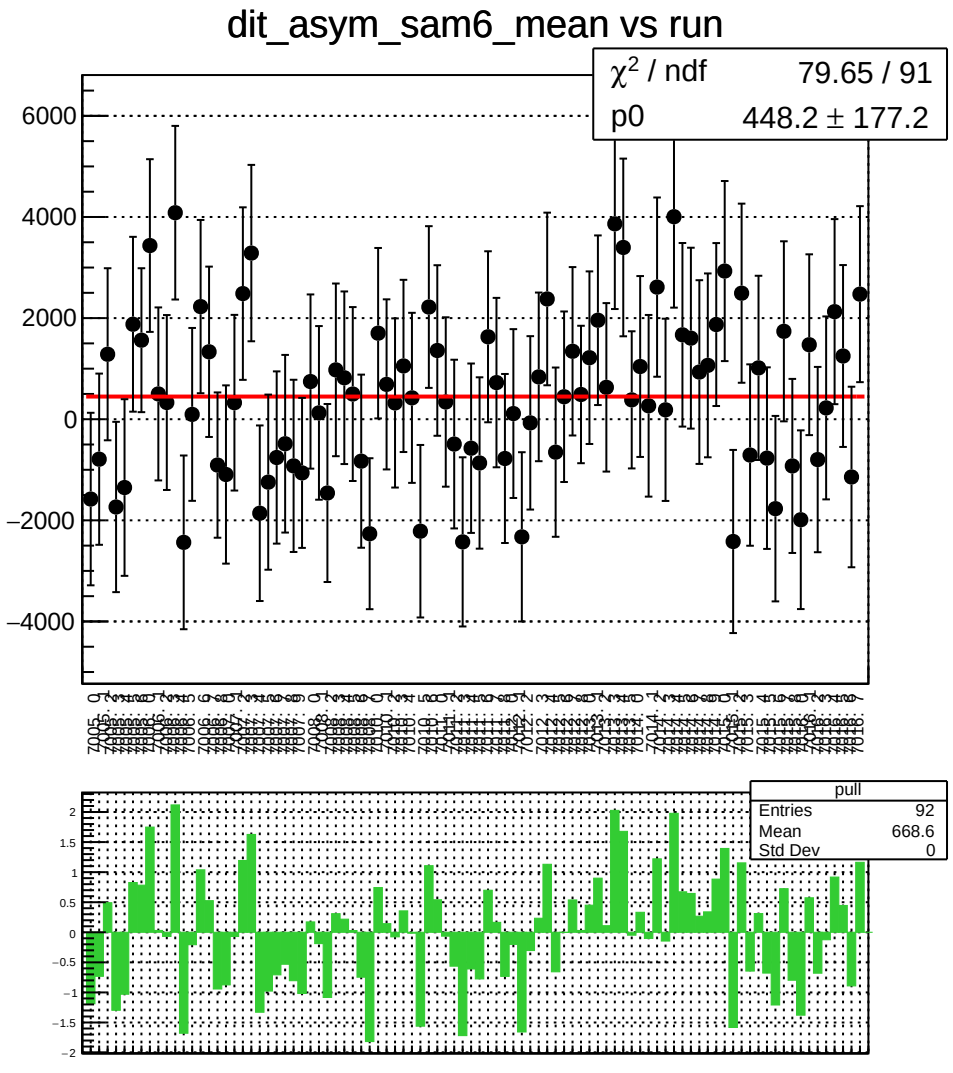

eigen_cor_asym_sam6_mean vs run
χ² / ndf 77.57 / 91
p0 468.5 ± 172.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 841.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

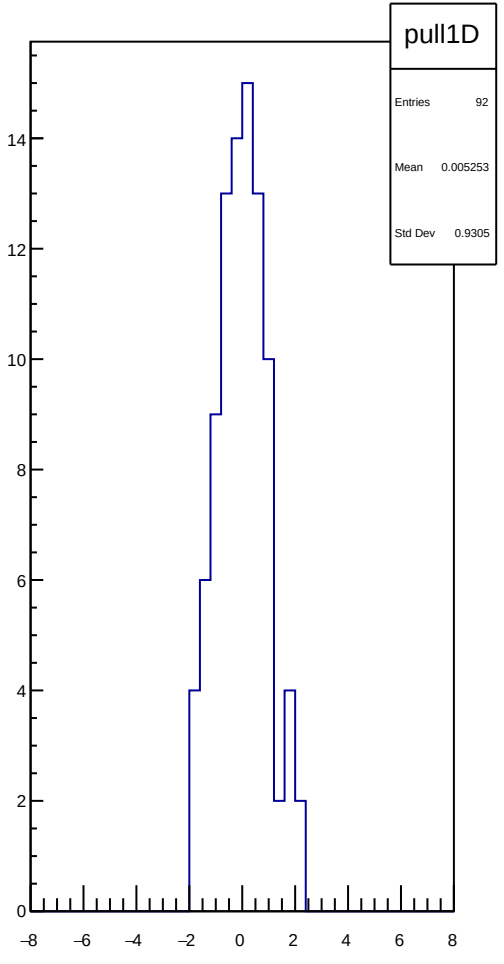

pull1D
Entries 92
Mean 0.003256
Std Dev 0.9183
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

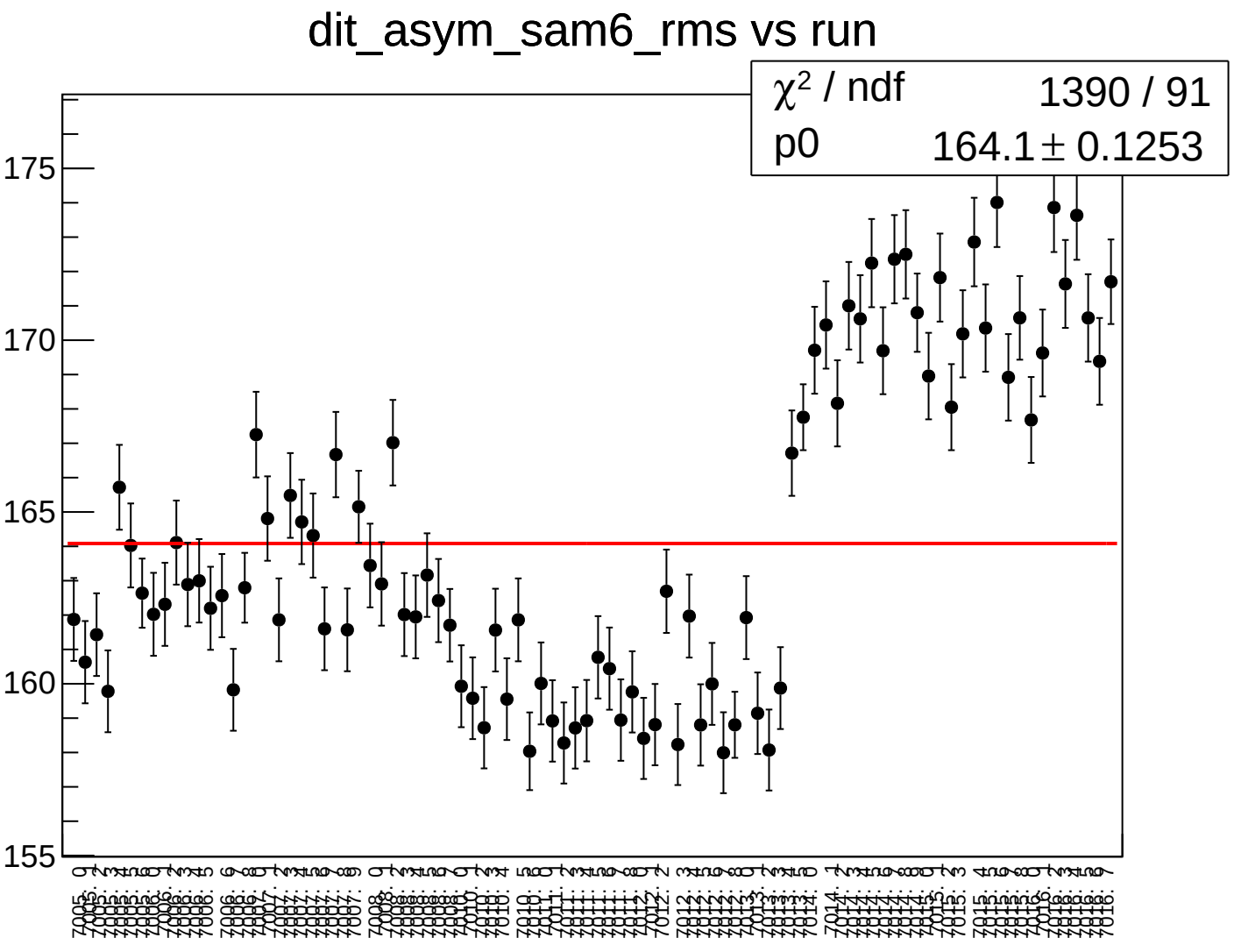

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1516 / 91
p0 159.3 ± 0.1217
170
165
160
155
150

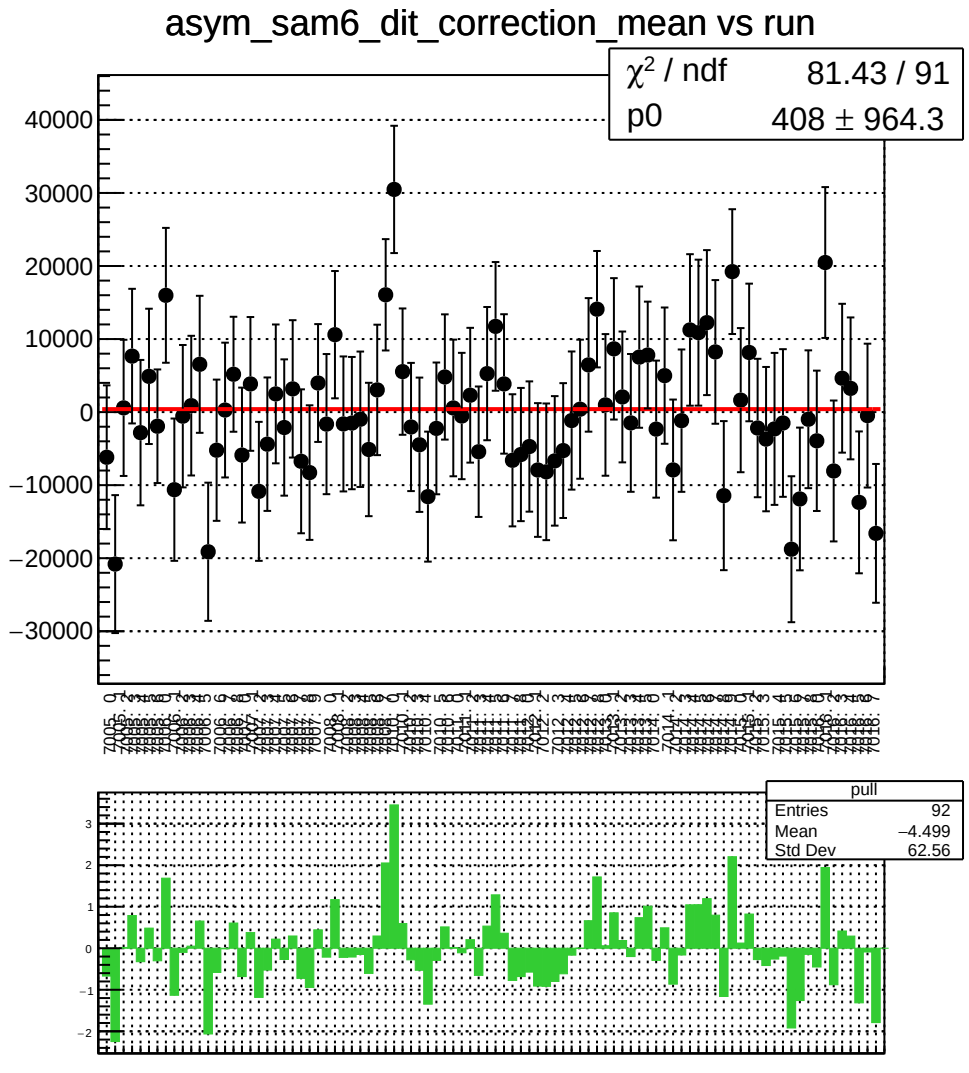

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 82.3 / 91
p0 422.6 ± 951.4
pull
Entries 92
Mean 0.4774
Std Dev 67.48
pull1D
Entries 92
Mean −0.0196
Std Dev 0.9456

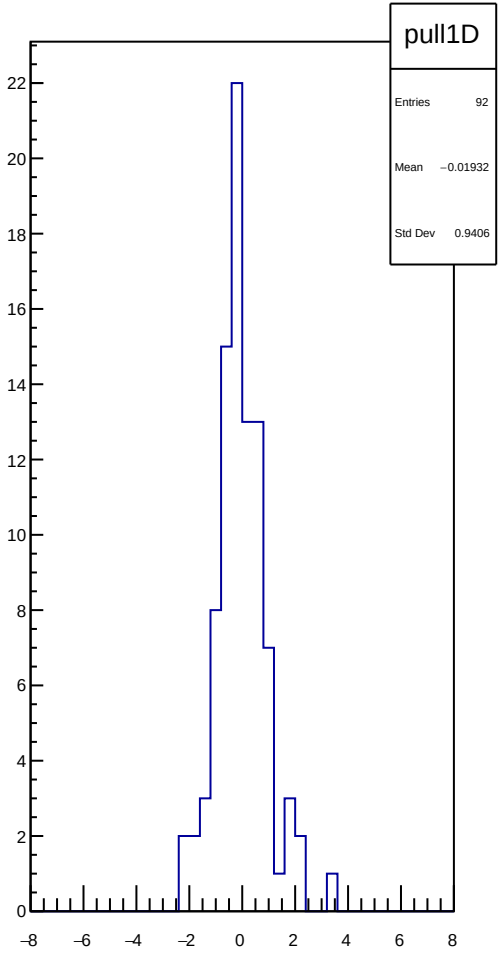

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 3603 / 91
p0 880.2 ± 0.6728
980
960
940
920
900
880
860
840
820
800
780

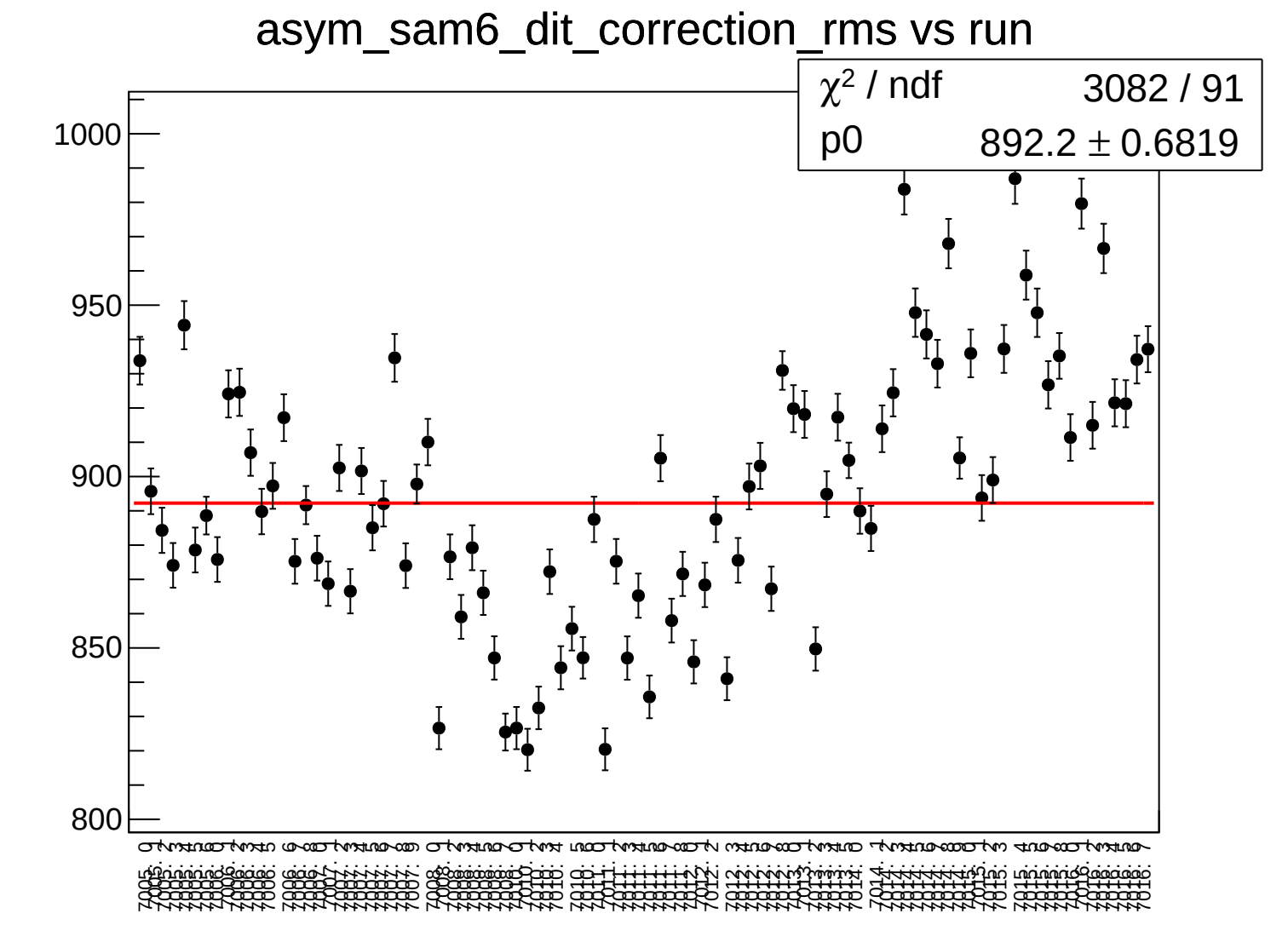

dit_asym_sam6_mean vs run
$\chi^2$ / ndf 79.65 / 91
p0 448.2 ± 177.2
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 668.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

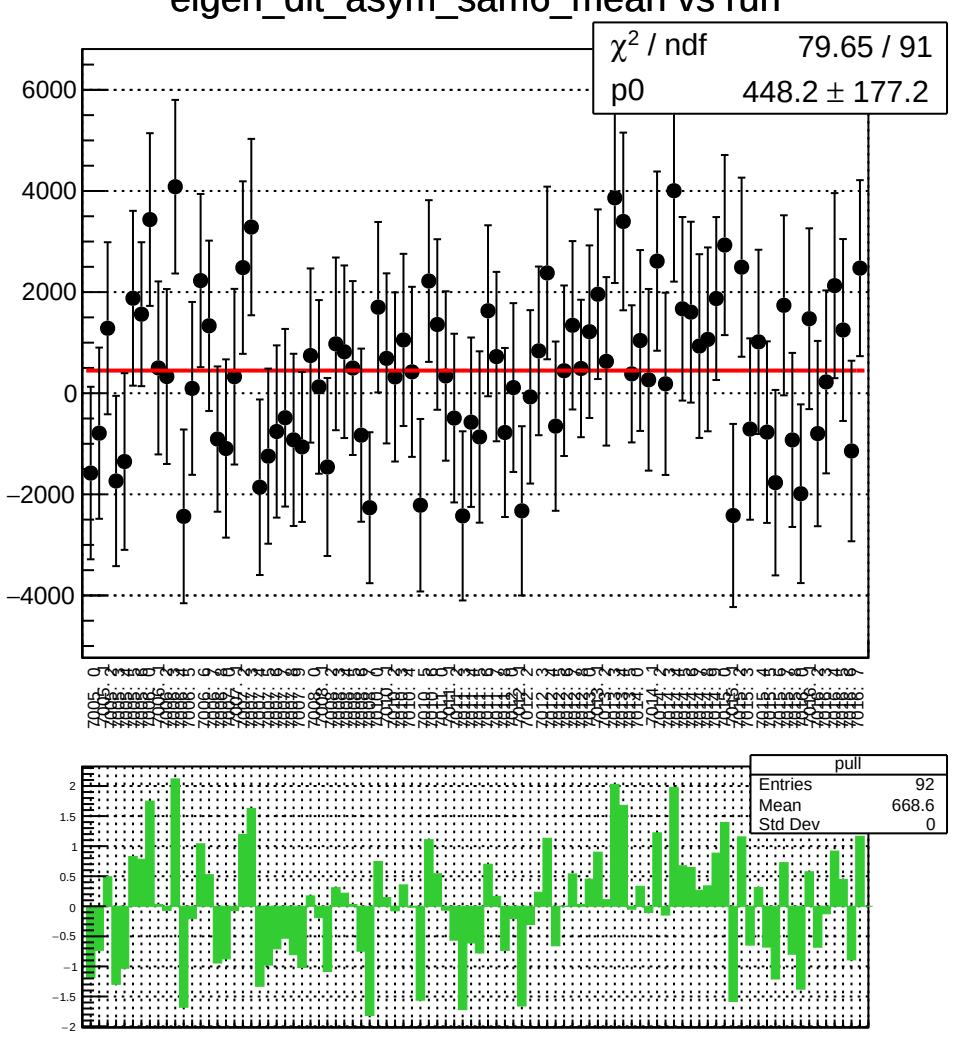

pull1D
Entries 92
Mean 0.005253
Std Dev 0.9305
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

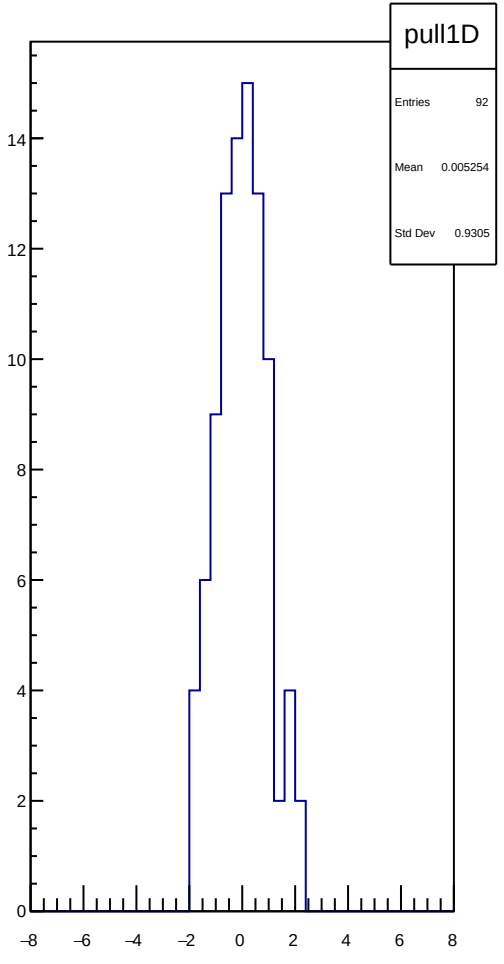

dit_asym_sam6_rms vs run
χ² / ndf 1390 / 91
p0 164.1 ± 0.1253
175
170
165
160
155

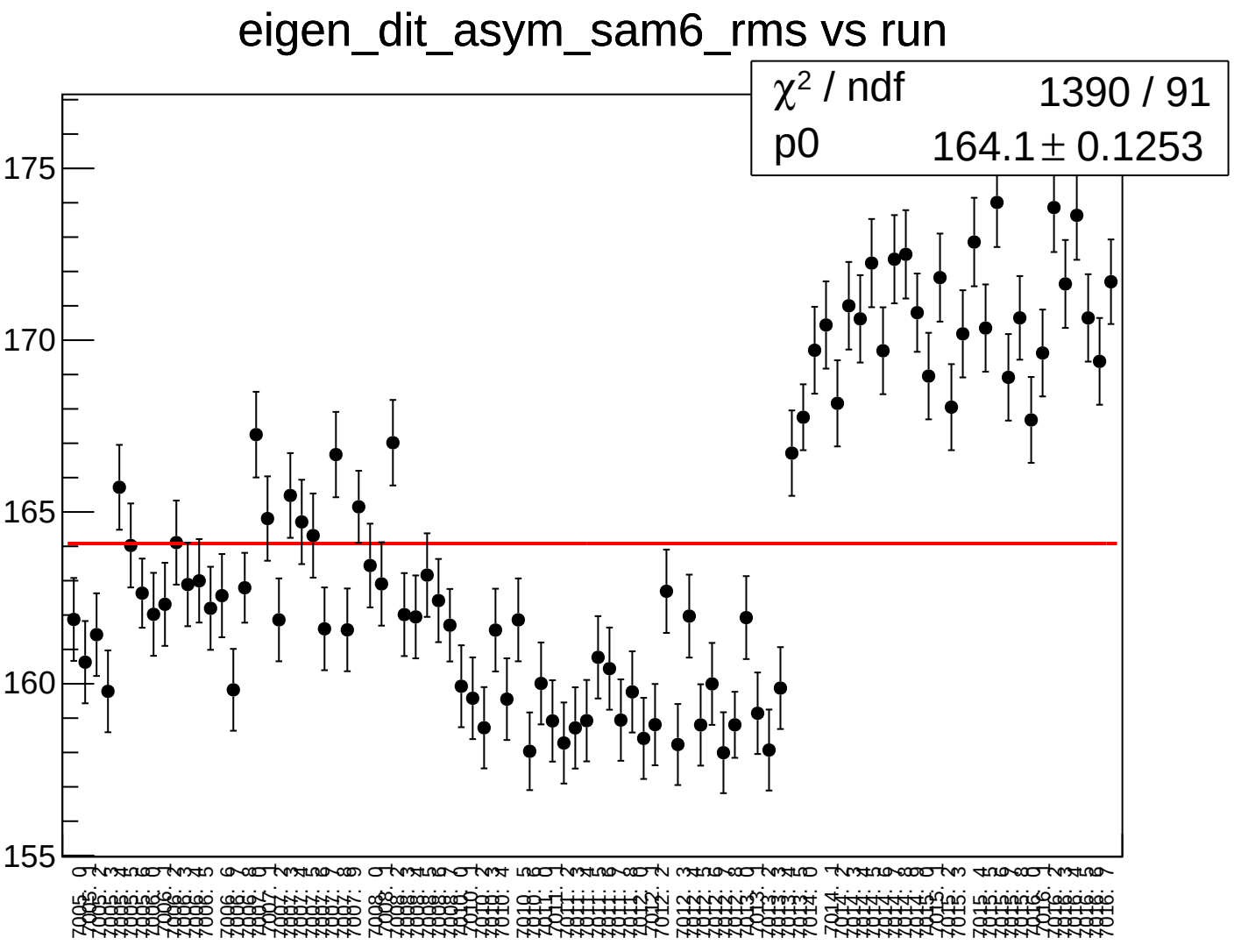

asym_sam6_dit_correction_mean vs run
χ² / ndf 81.43 / 91
p0 408 ± 964.3
pull
Entries 92
Mean −4.499
Std Dev 62.56

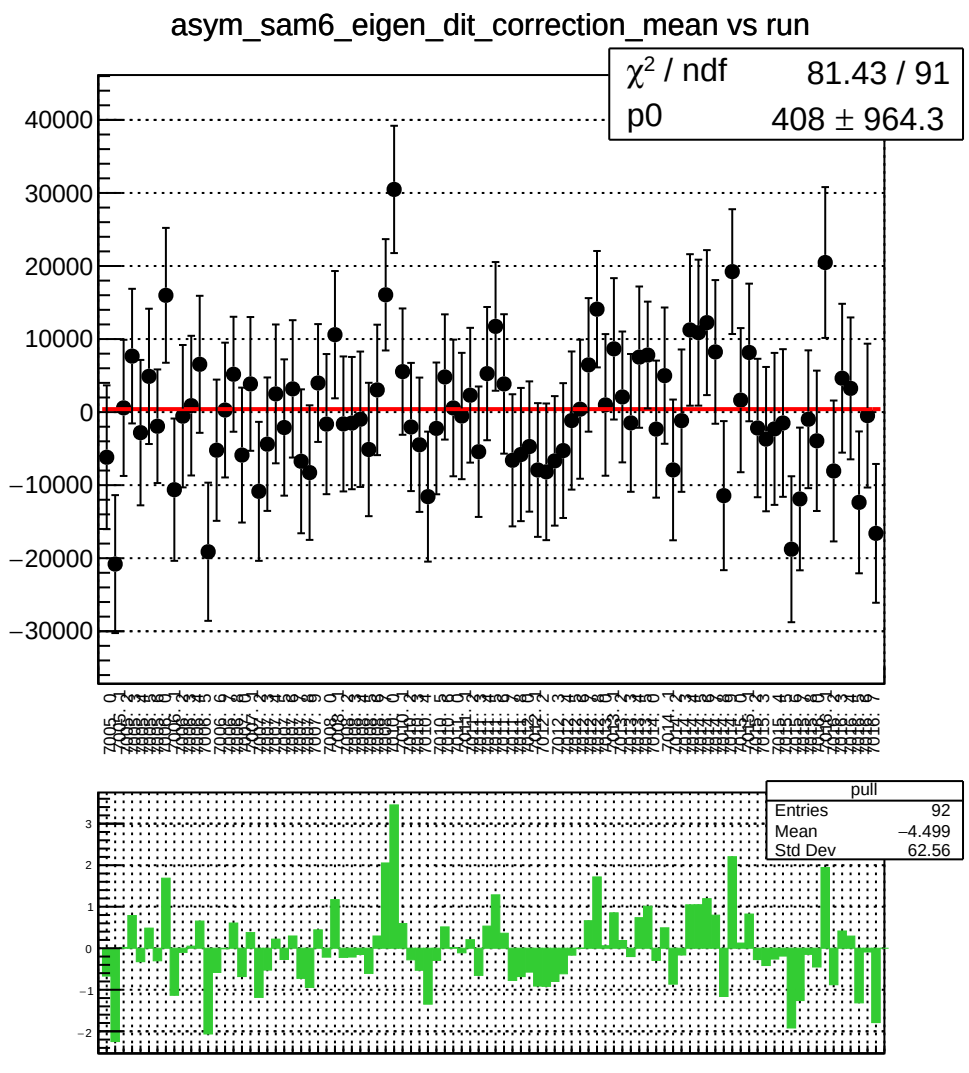

pull1D
Entries 92
Mean −0.01932
Std Dev 0.9406

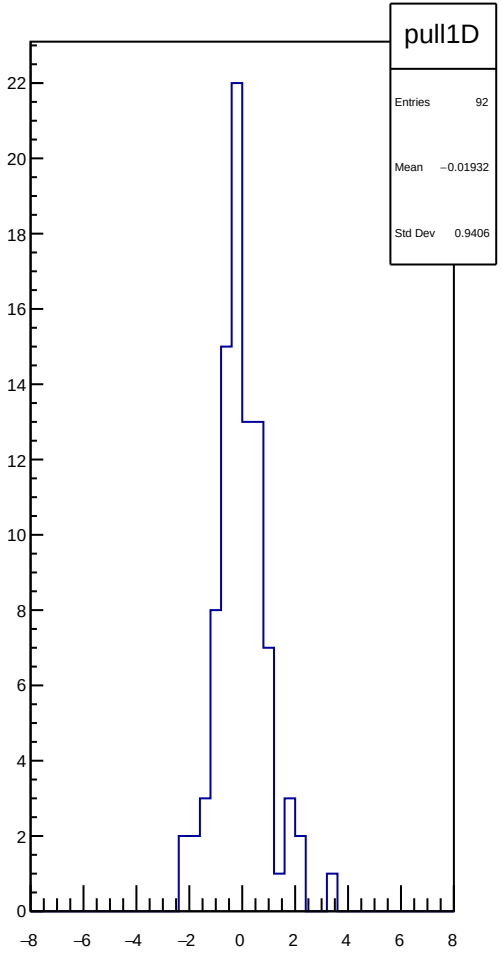

asym_sam6_dit_correction_rms vs run
χ² / ndf 3082 / 91
p0 892.2 ± 0.6819
1000
950
900
850
800

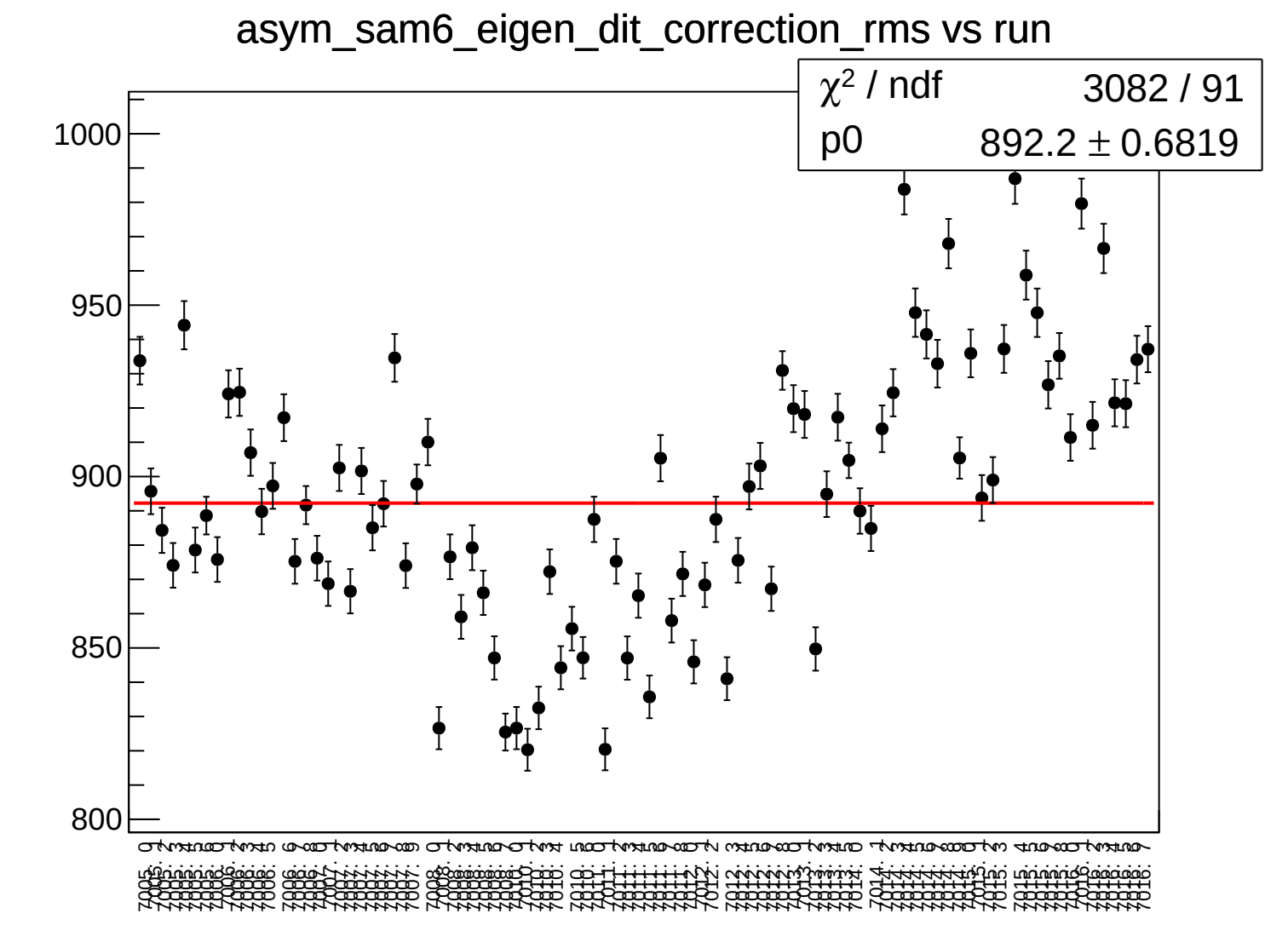

eigen_dit_asym_sam6_mean vs run
χ² / ndf 79.65 / 91
p0 448.2 ± 177.2
pull
Entries 92
Mean 668.6
Std Dev 0

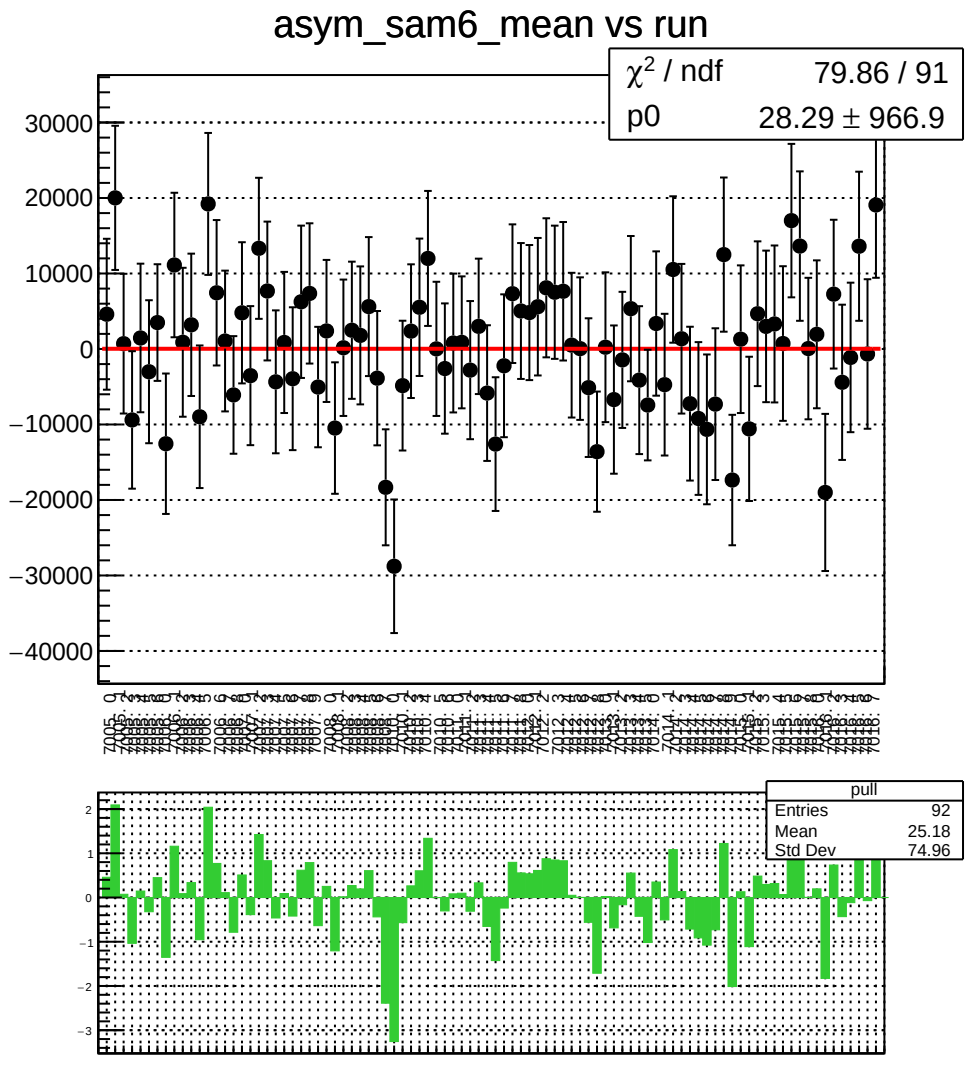

pull1D
Entries 92
Mean 0.005254
Std Dev 0.9305

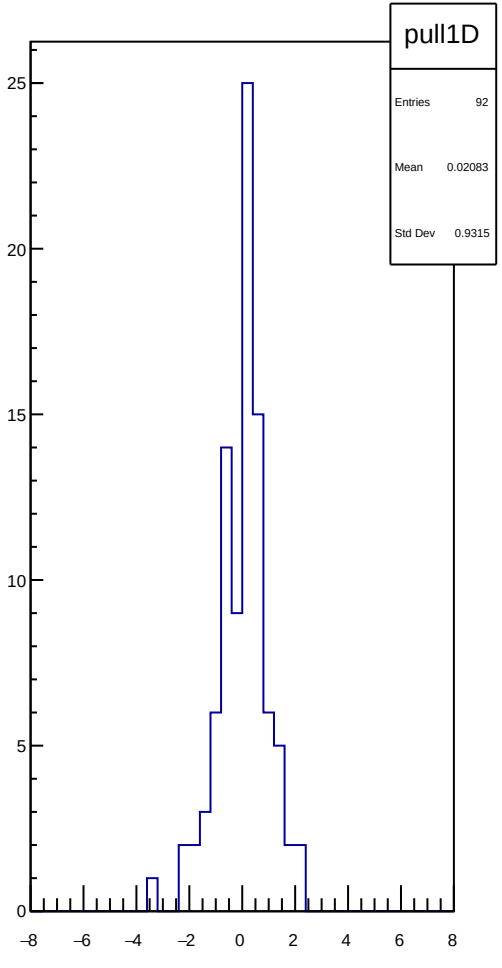

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1390 / 91
p0 164.1 ± 0.1253
175
170
165
160
155

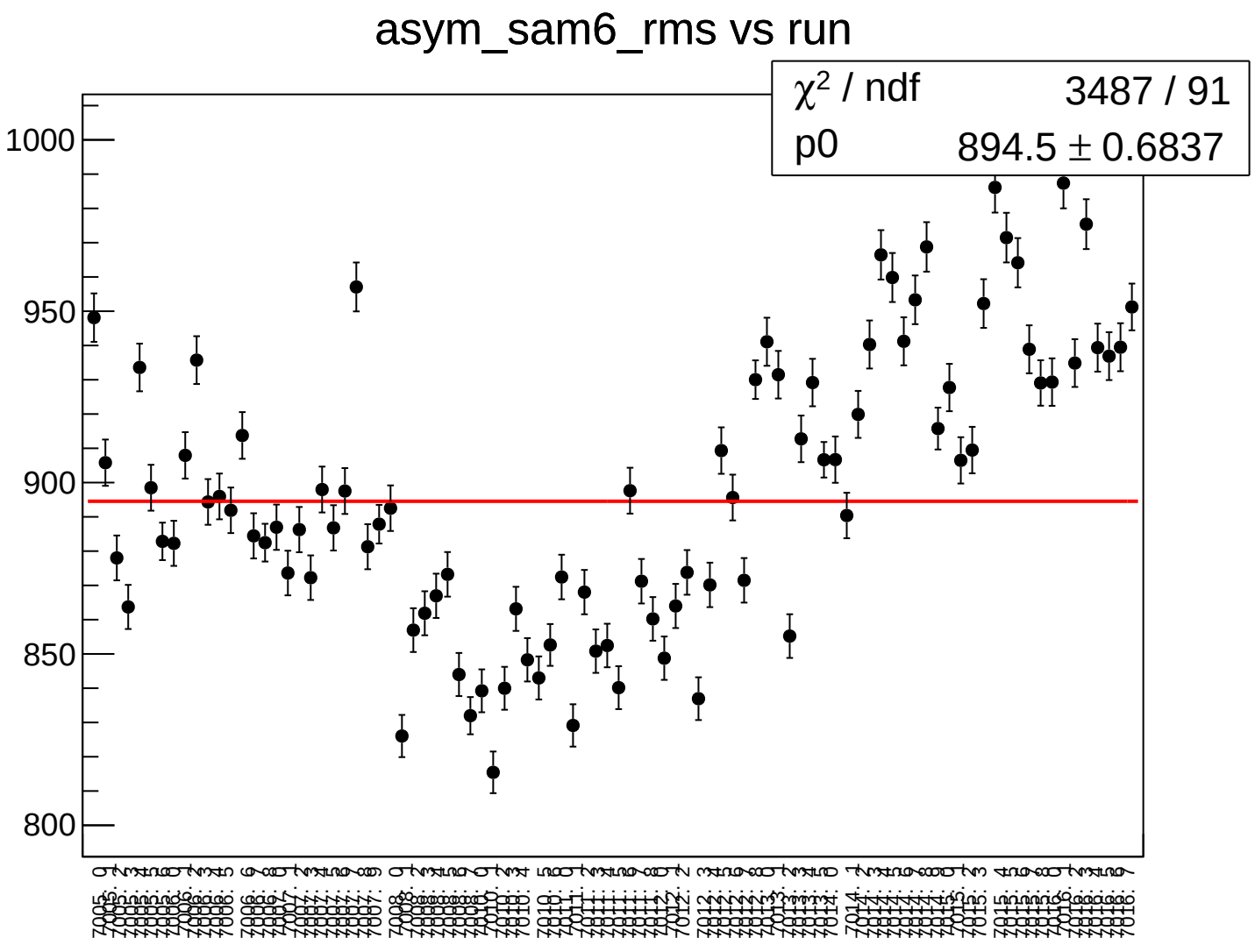

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 81.43 / 91
p0 408 ± 964.3
pull
Entries 92
Mean −4.499
Std Dev 62.56

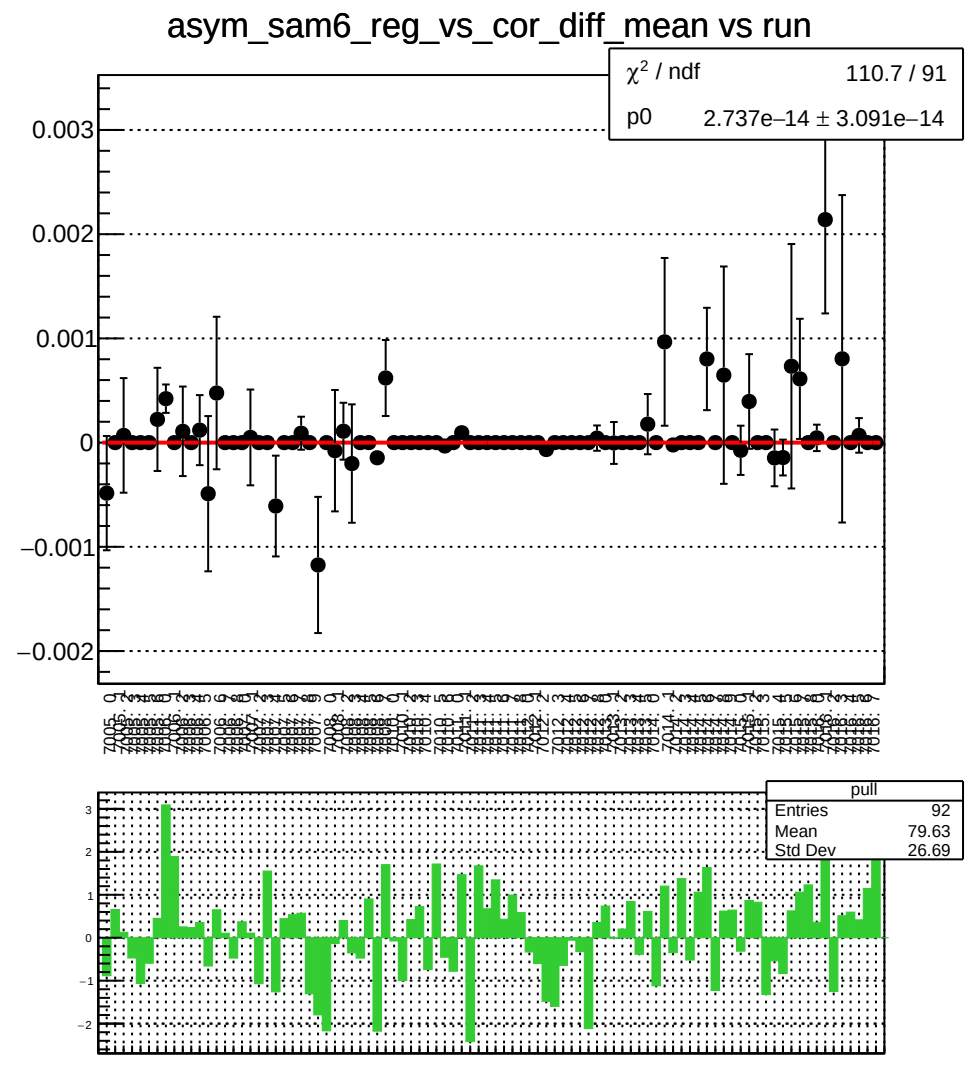

pull1D
Entries 92
Mean −0.01932
Std Dev 0.9406

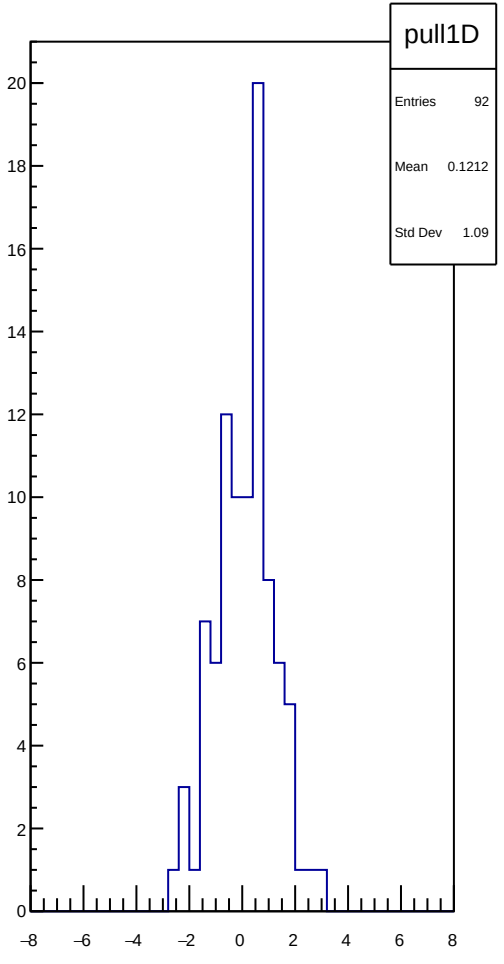

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 3082 / 91
p0 892.2 ± 0.6819
1000
950
900
850
800

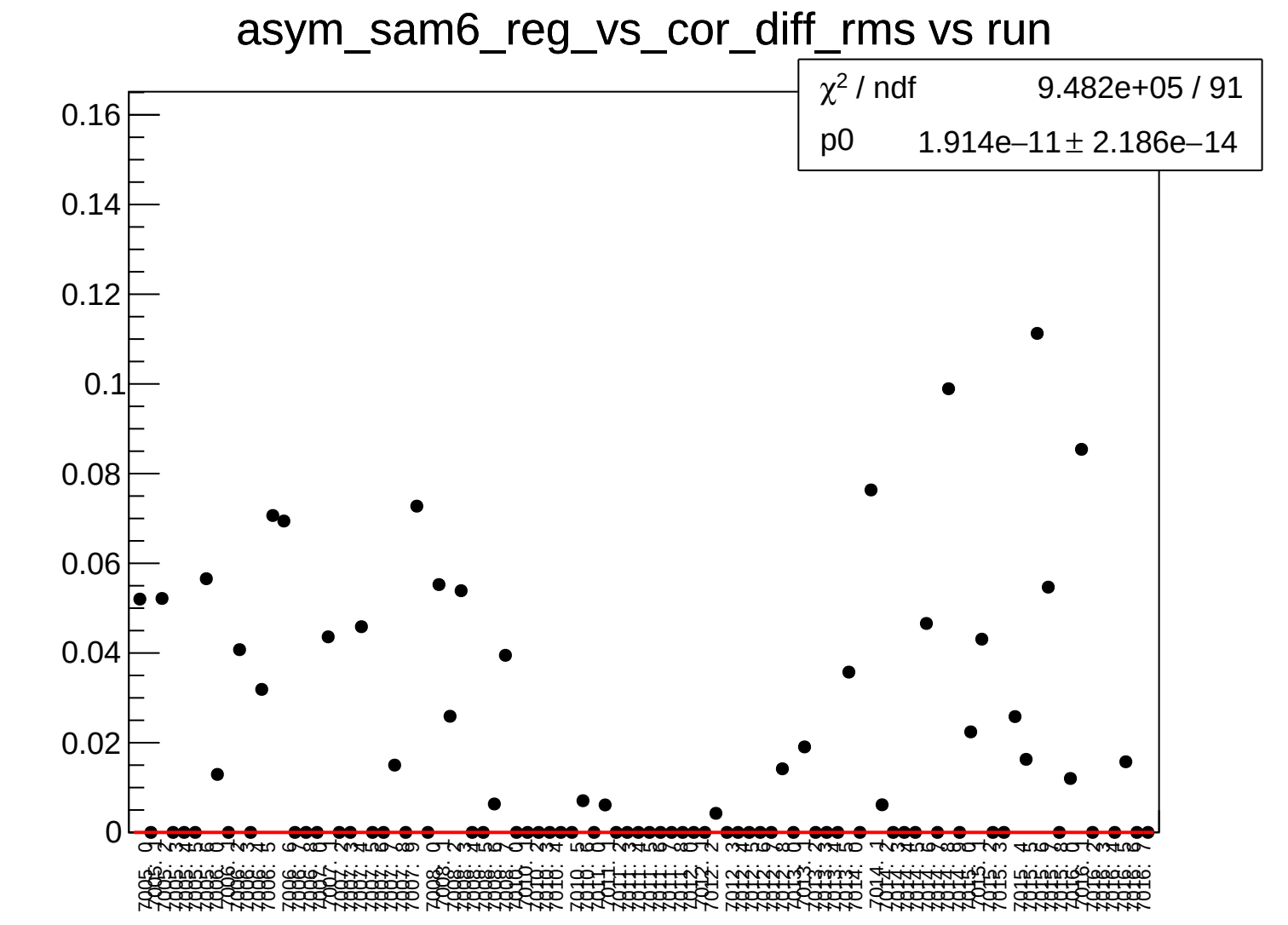

asym_sam6_mean vs run
$\chi^2$ / ndf 79.86 / 91
p0 28.29 ± 966.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean 25.18
Std Dev 74.96
2
1
0
−1
−2
−3

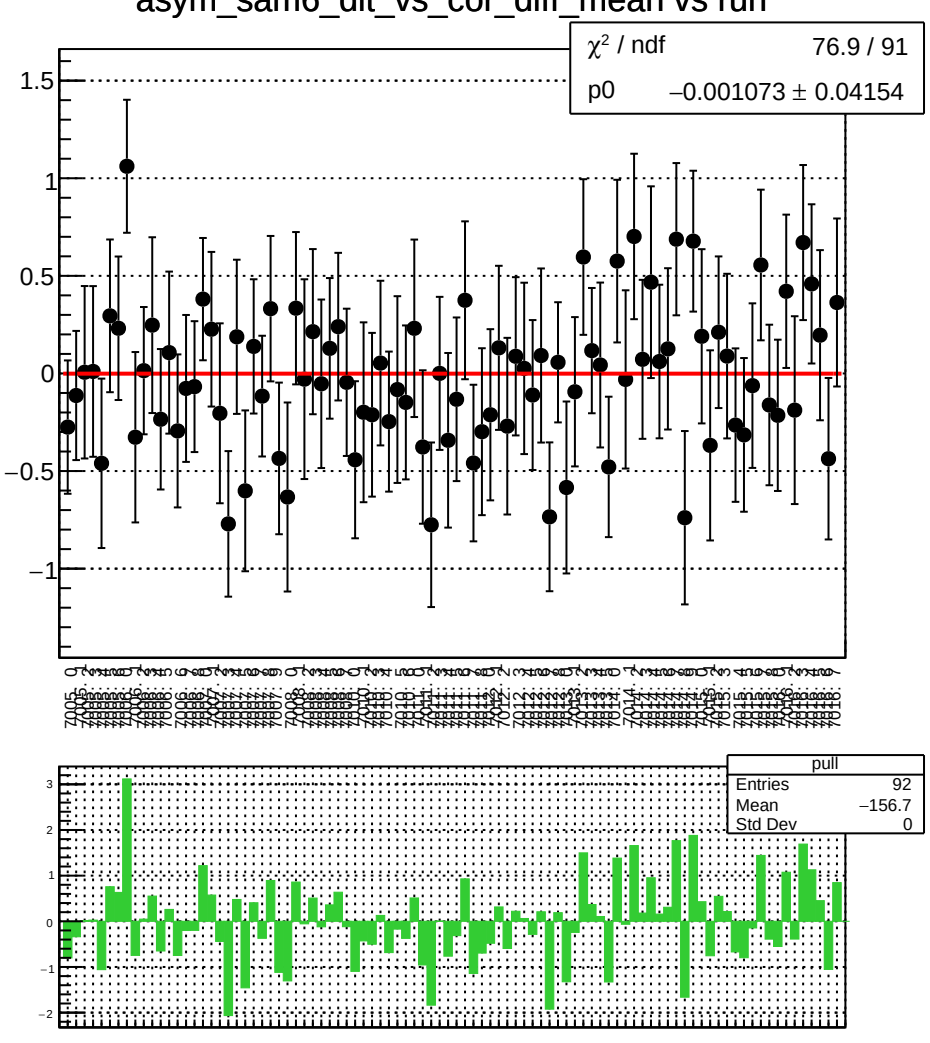

pull1D
Entries 92
Mean 0.02083
Std Dev 0.9315
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

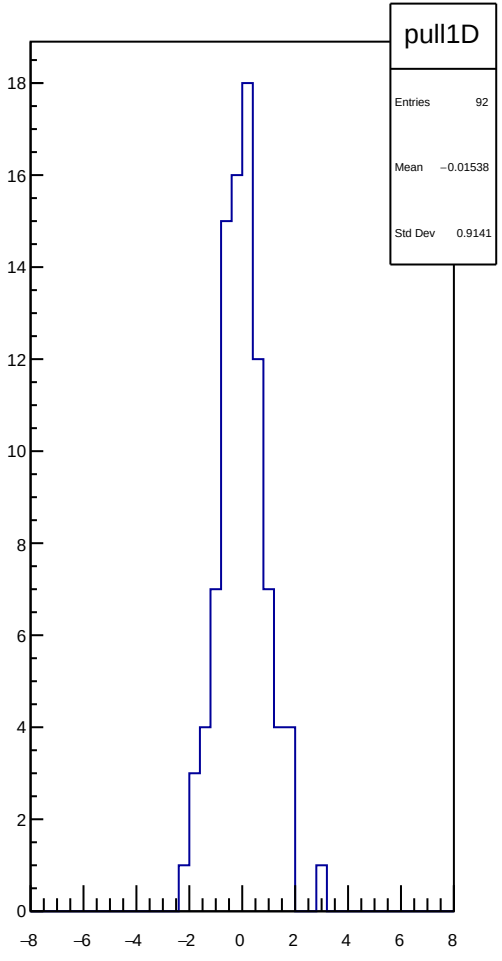

asym_sam6_rms vs run
χ² / ndf 3487 / 91
p0 894.5 ± 0.6837
1000
950
900
850
800

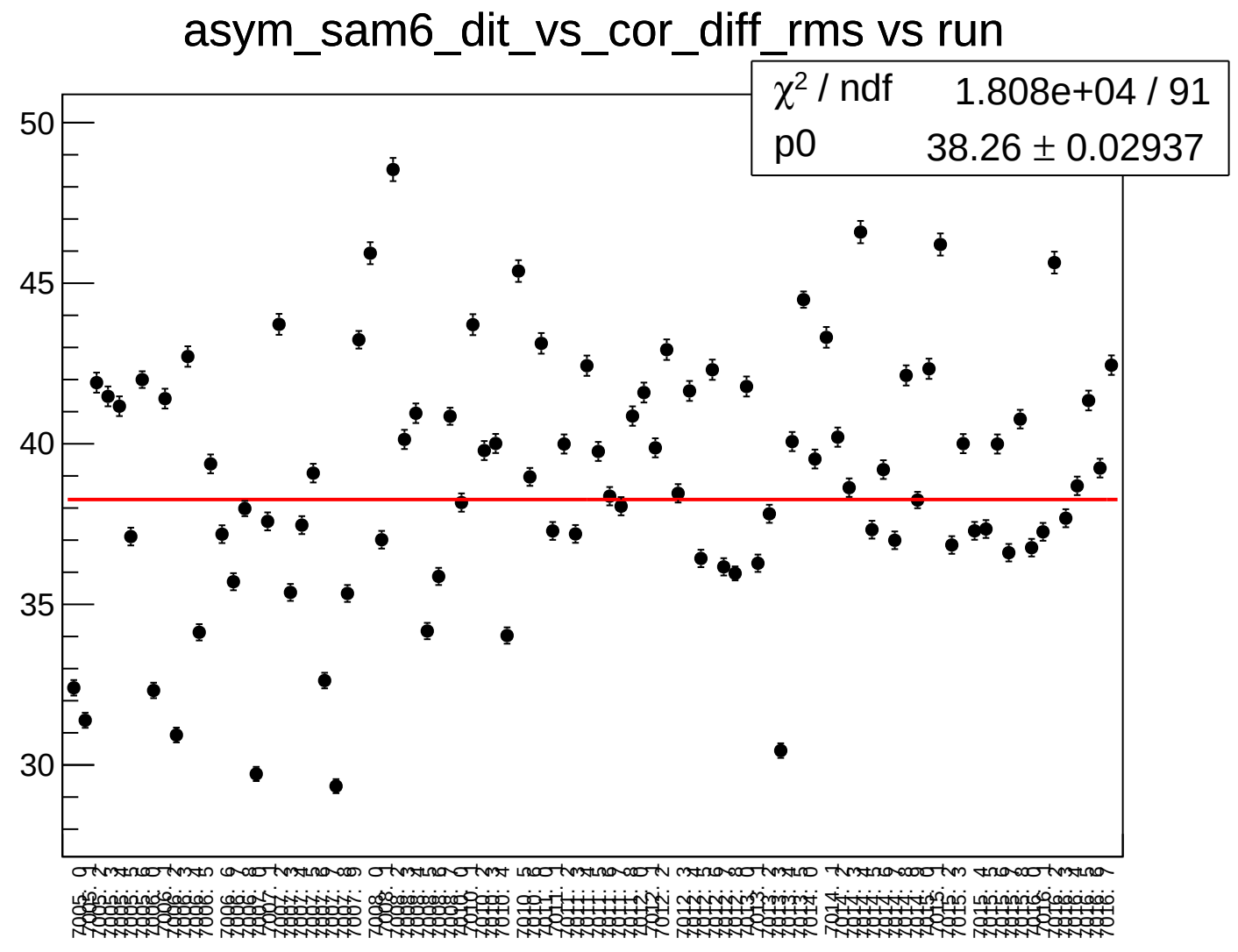

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 91
p0 2.737e−14 ± 3.091e−14
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 92
Mean 79.63
Std Dev 26.69
3
2
1
0
−1
−2

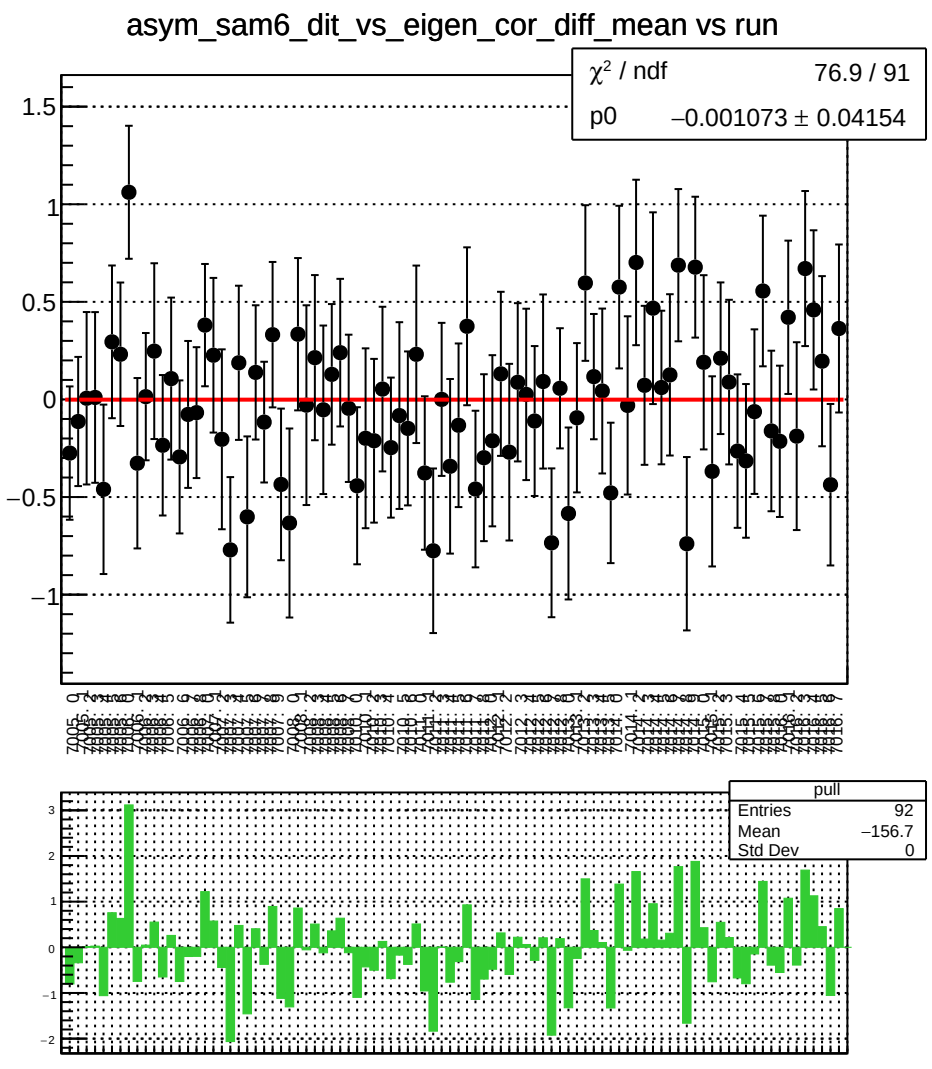

pull1D
Entries 92
Mean 0.1212
Std Dev 1.09
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

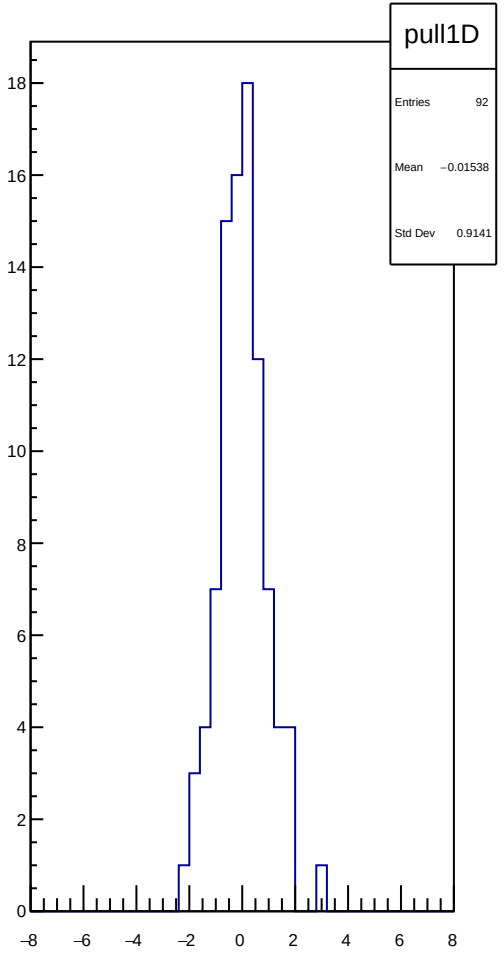

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 9.482e+05 / 91
p0 1.914e−11 ± 2.186e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

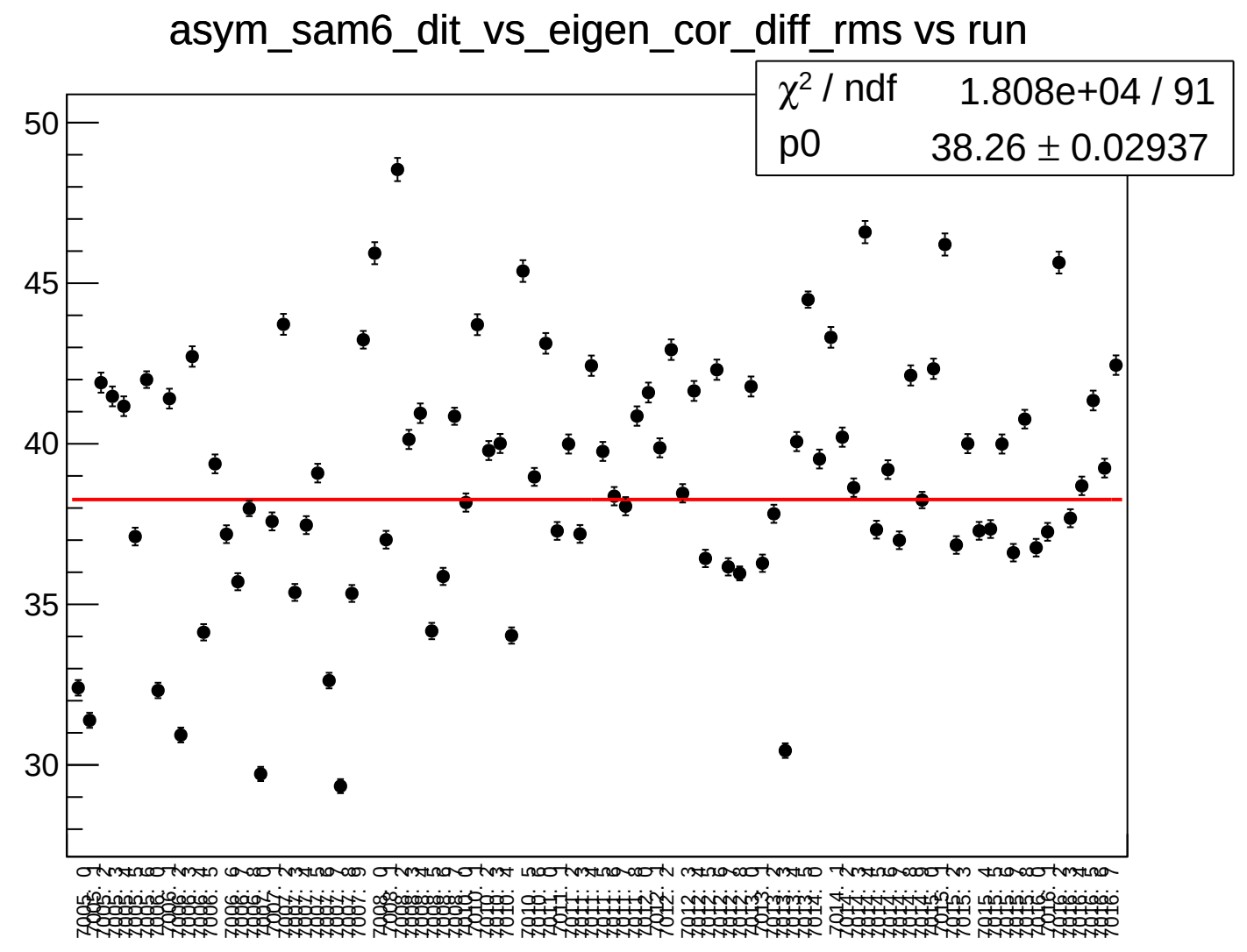

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 76.9 / 91
p0 −0.001073 ± 0.04154
pull
Entries 92
Mean −156.7
Std Dev 0

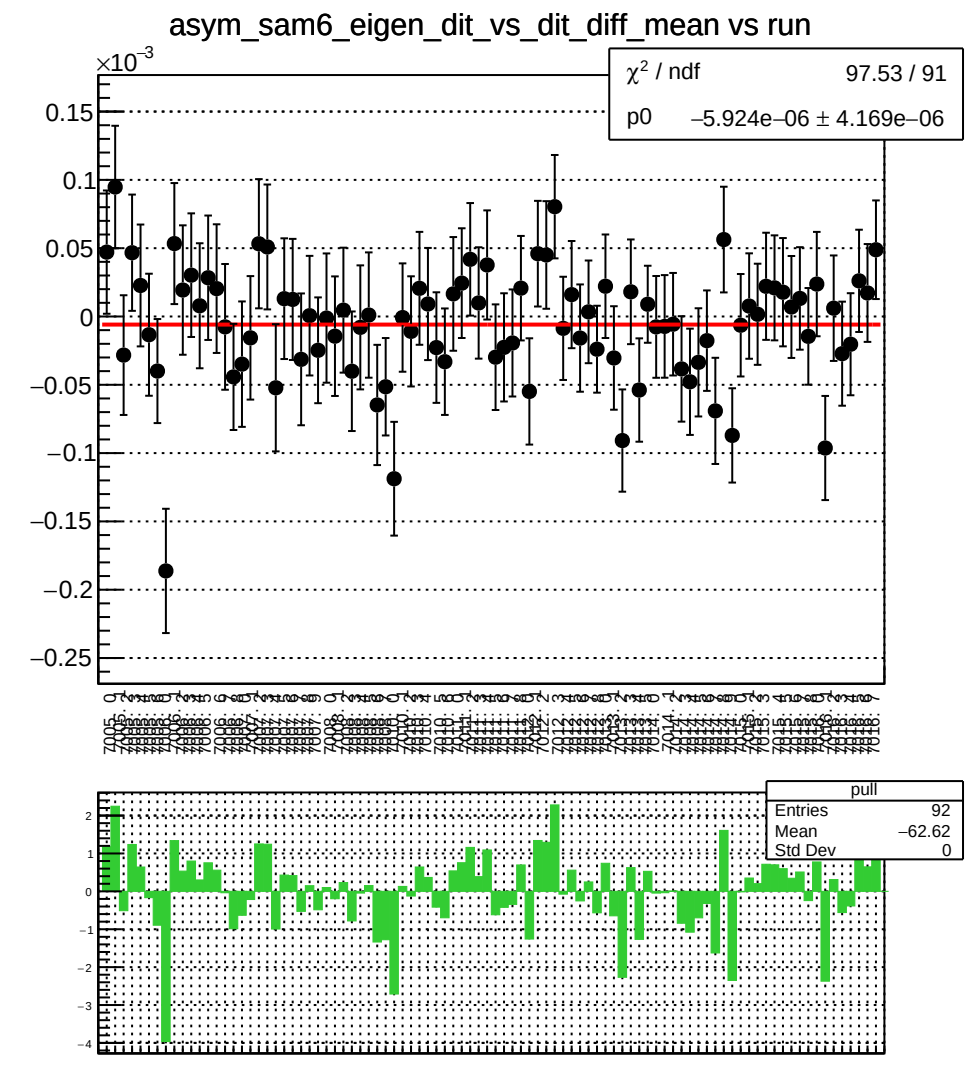

pull1D
Entries 92
Mean −0.01538
Std Dev 0.9141

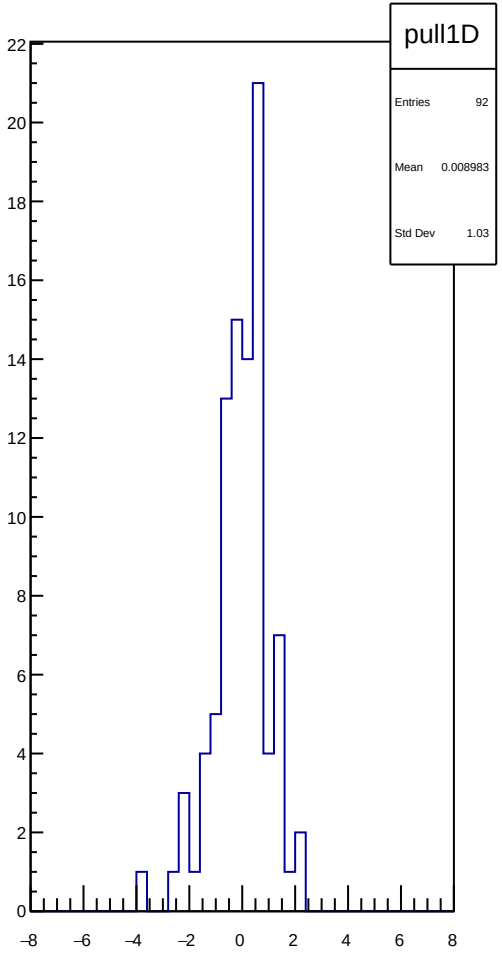

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.808e+04 / 91
p0 38.26 ± 0.02937
50
45
40
35
30

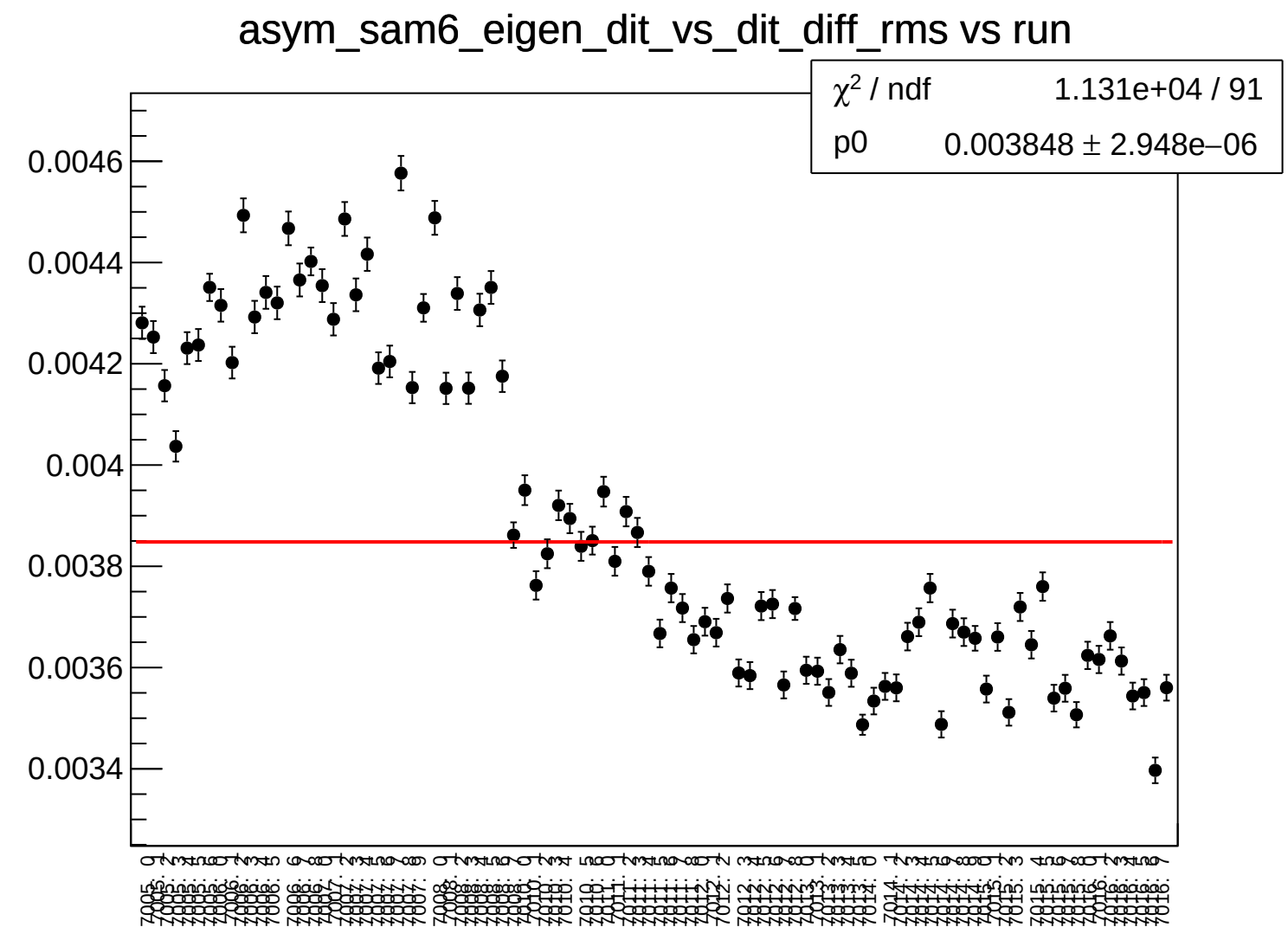

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.9 / 91
p0 −0.001073 ± 0.04154
pull
Entries 92
Mean −156.7
Std Dev 0

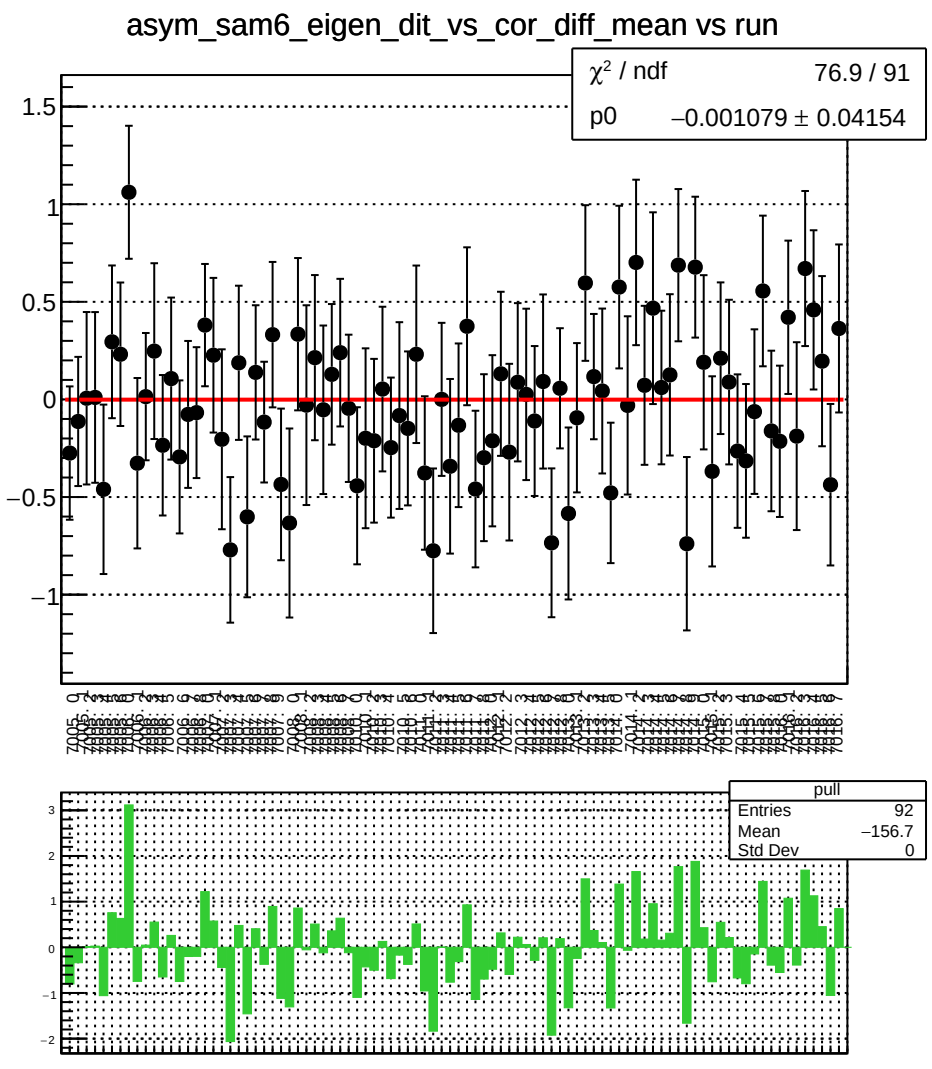

pull1D
Entries 92
Mean −0.01538
Std Dev 0.9141

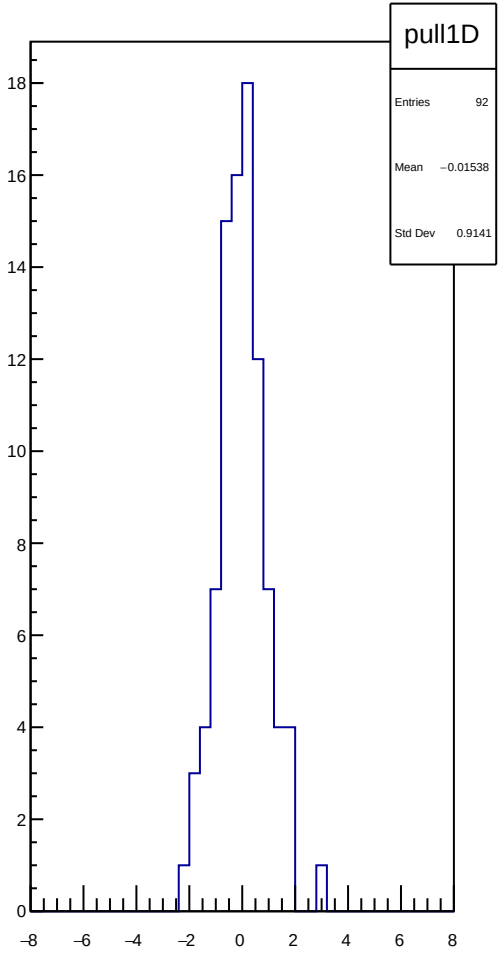

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.808e+04 / 91
p0 38.26 ± 0.02937
50
45
40
35
30

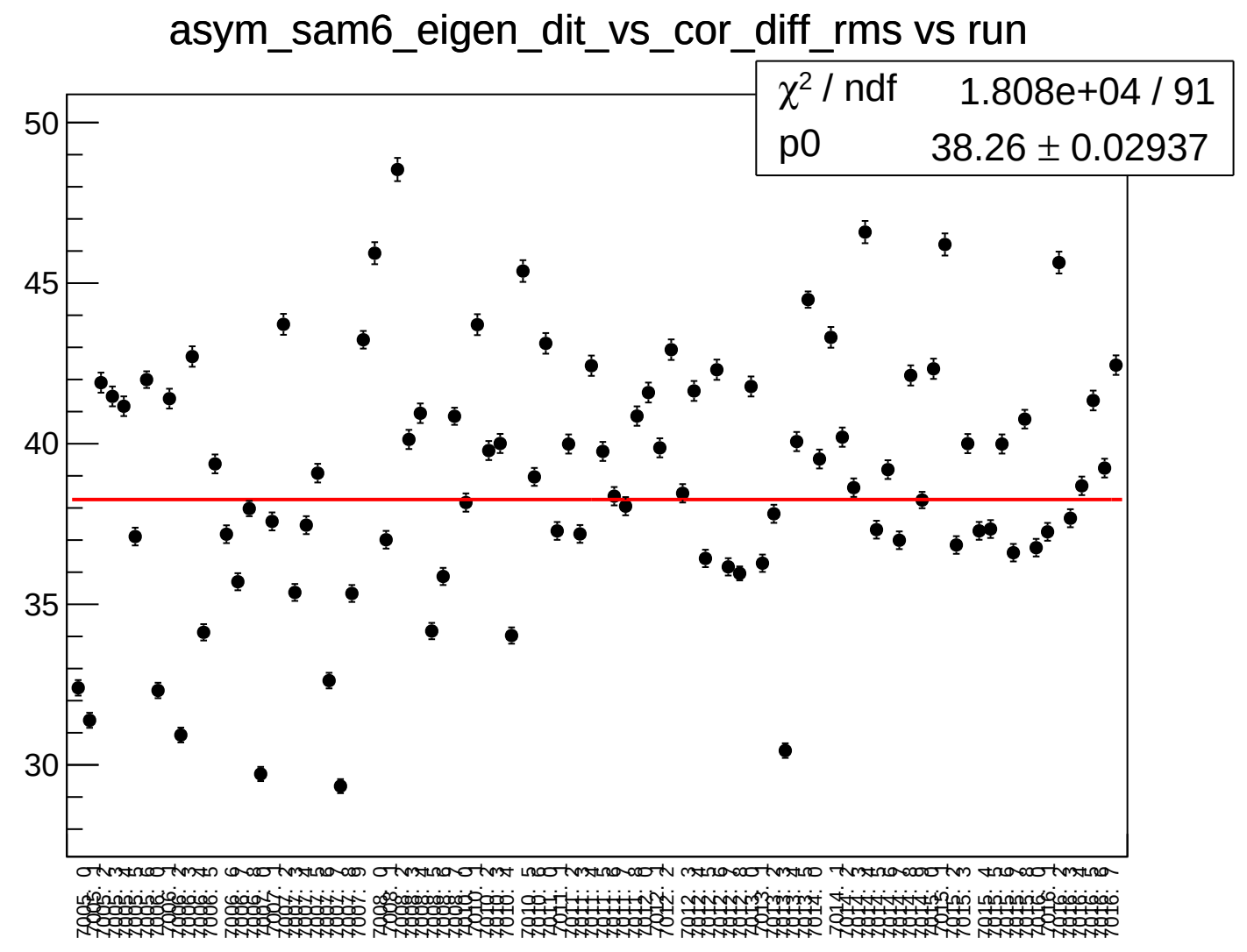

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.53 / 91
p0 −5.924e−06 ± 4.169e−06
pull
Entries 92
Mean −62.62
Std Dev 0

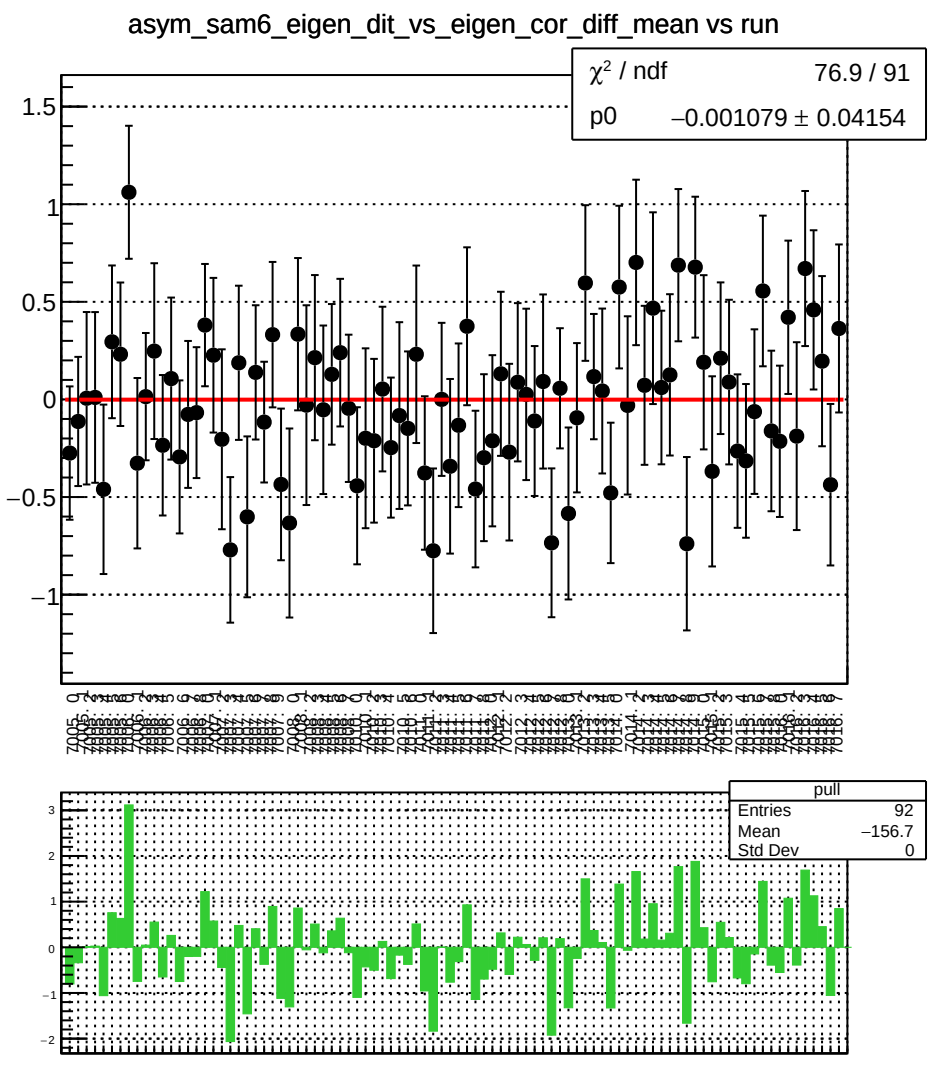

pull1D
Entries 92
Mean 0.008983
Std Dev 1.03

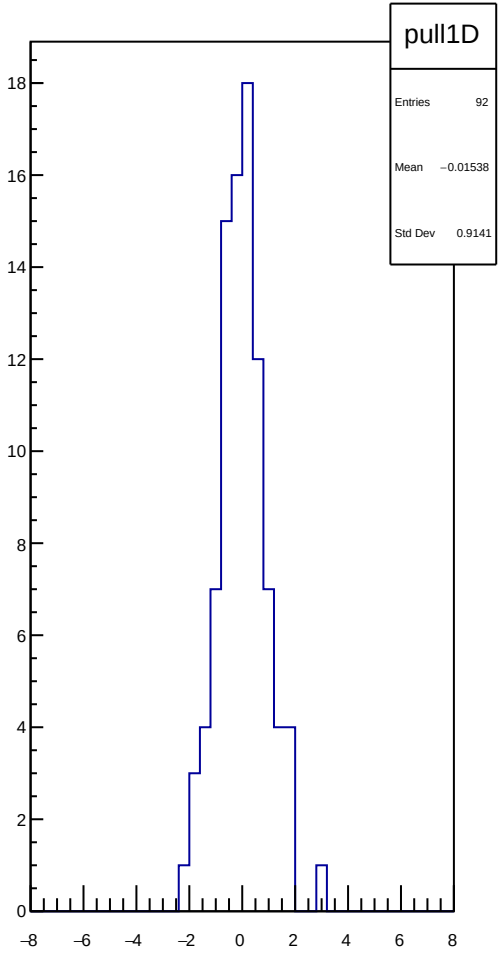

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.131e+04 / 91
p0 0.003848 ± 2.948e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

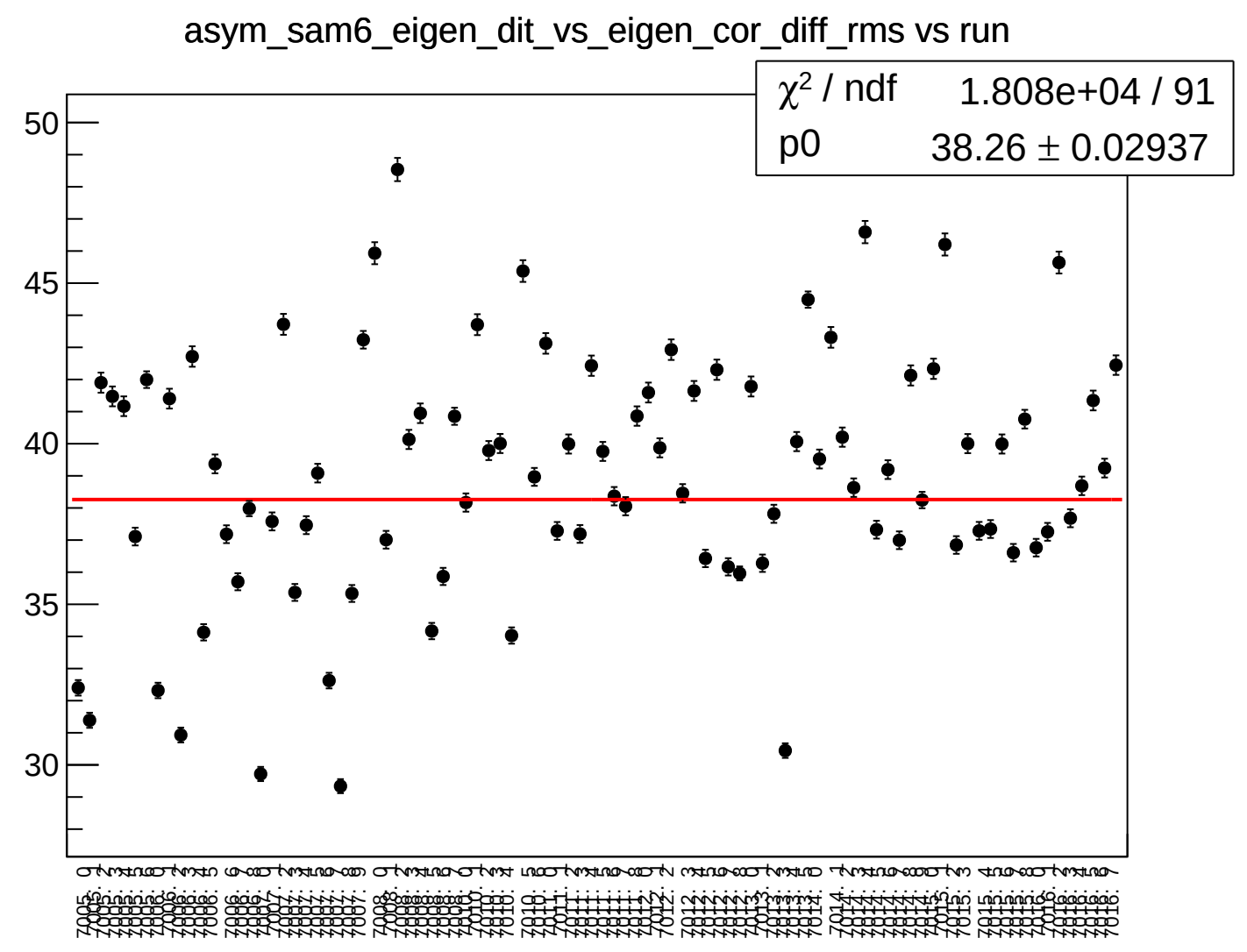

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.9 / 91
p0 −0.001079 ± 0.04154
pull
Entries 92
Mean −156.7
Std Dev 0

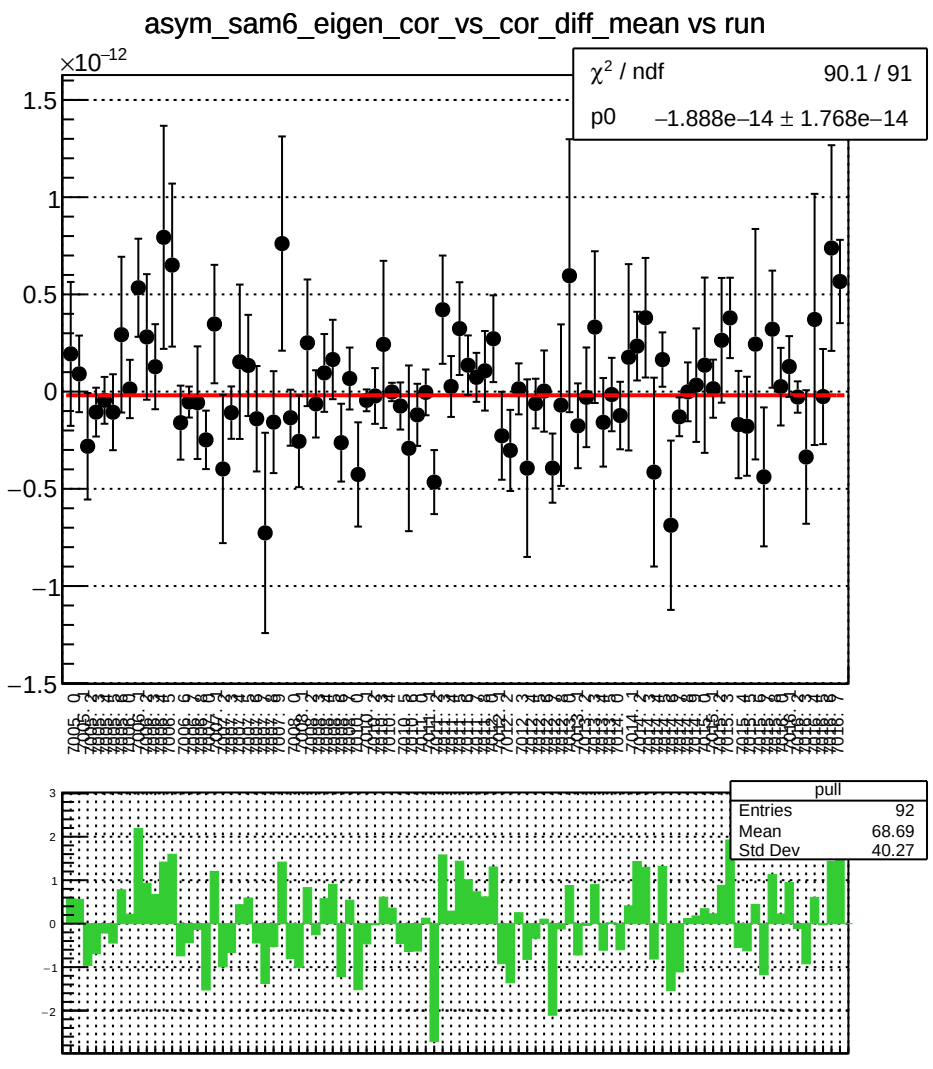

pull1D
Entries 92
Mean −0.01538
Std Dev 0.9141

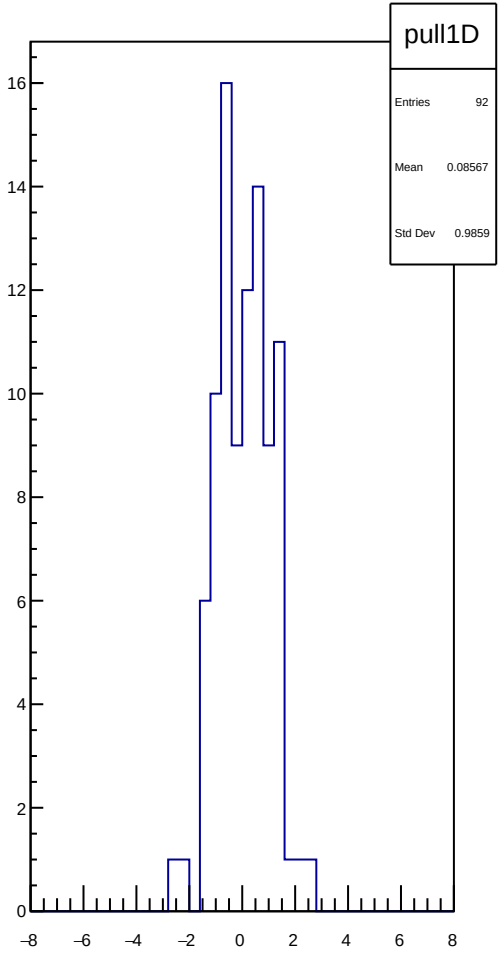

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.808e+04 / 91
p0 38.26 ± 0.02937
50
45
40
35
30

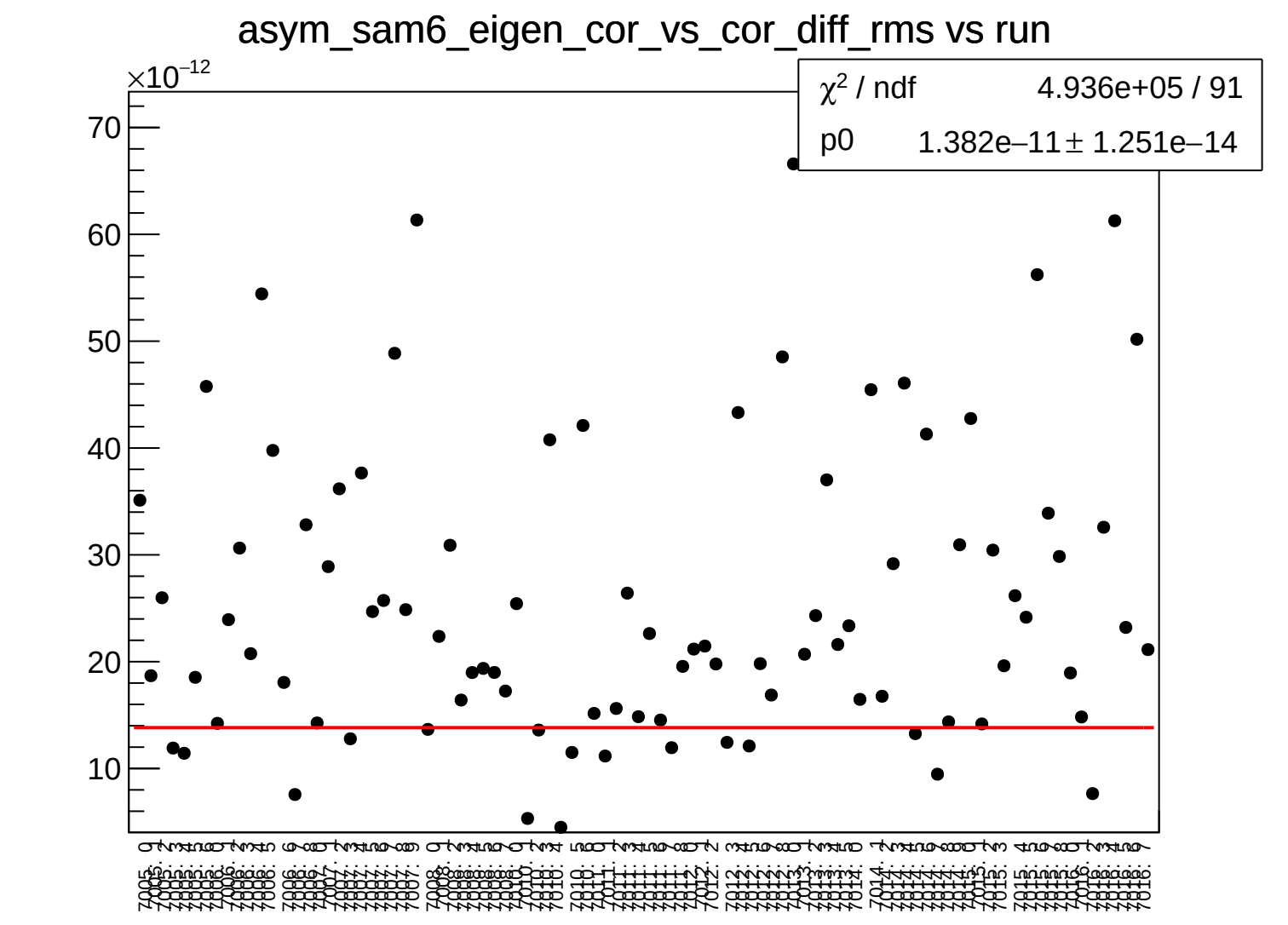

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.9 / 91
p0 −0.001079 ± 0.04154
pull
Entries 92
Mean −156.7
Std Dev 0

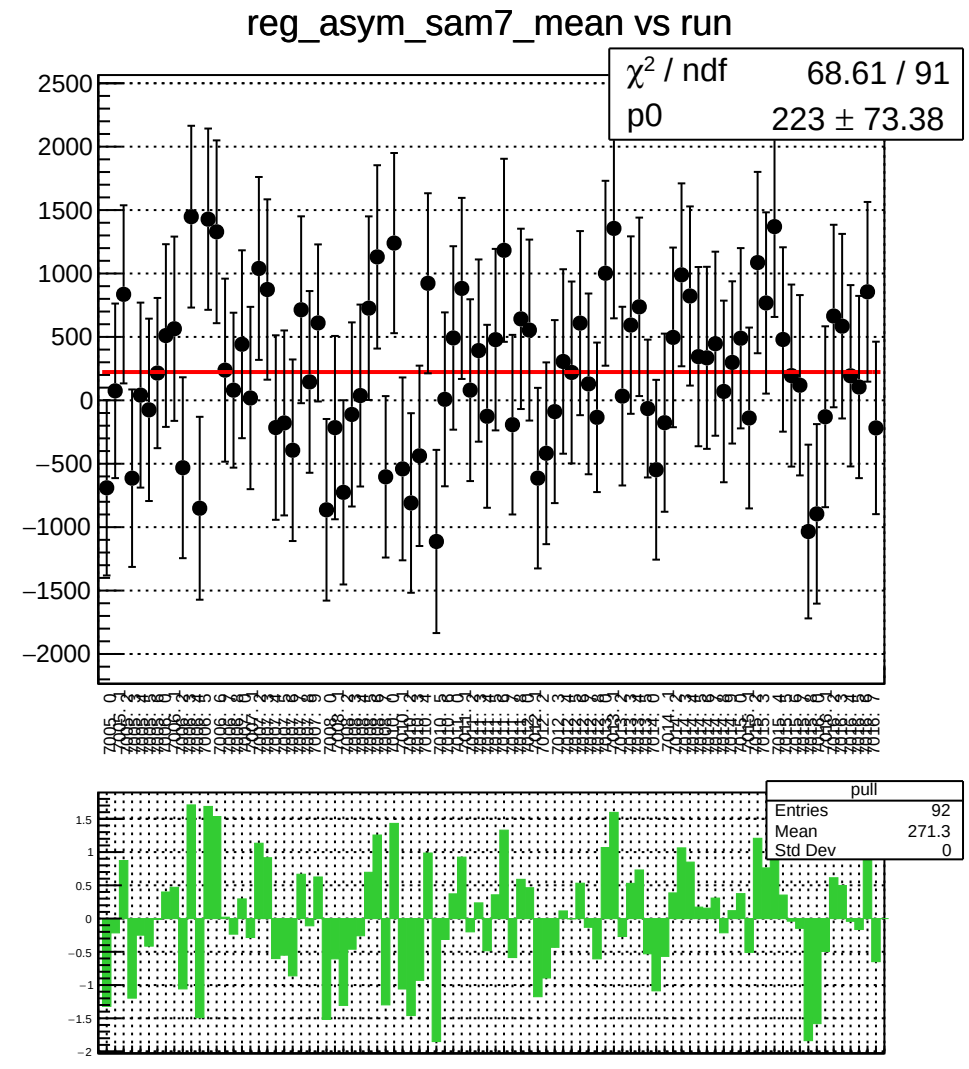

pull1D
Entries 92
Mean −0.01538
Std Dev 0.9141

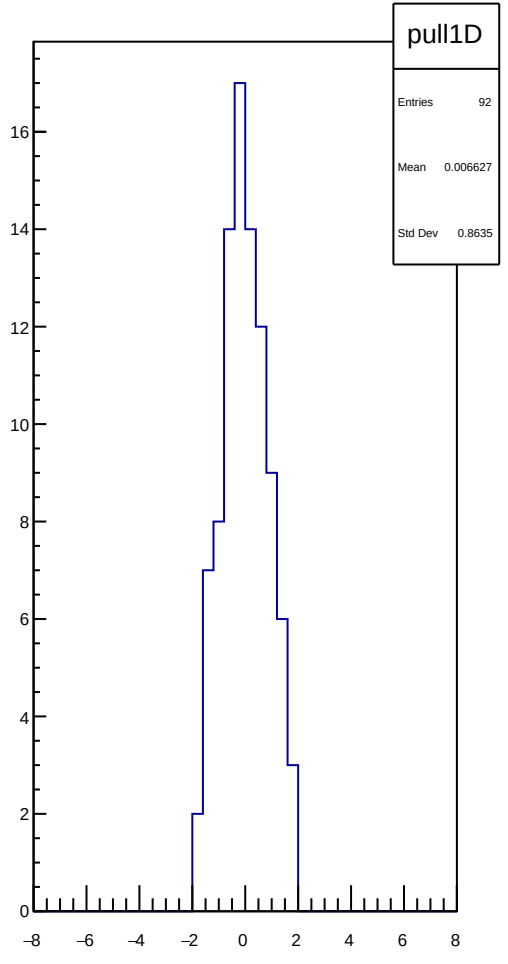

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.808e+04 / 91
p0 38.26 ± 0.02937
50
45
40
35
30

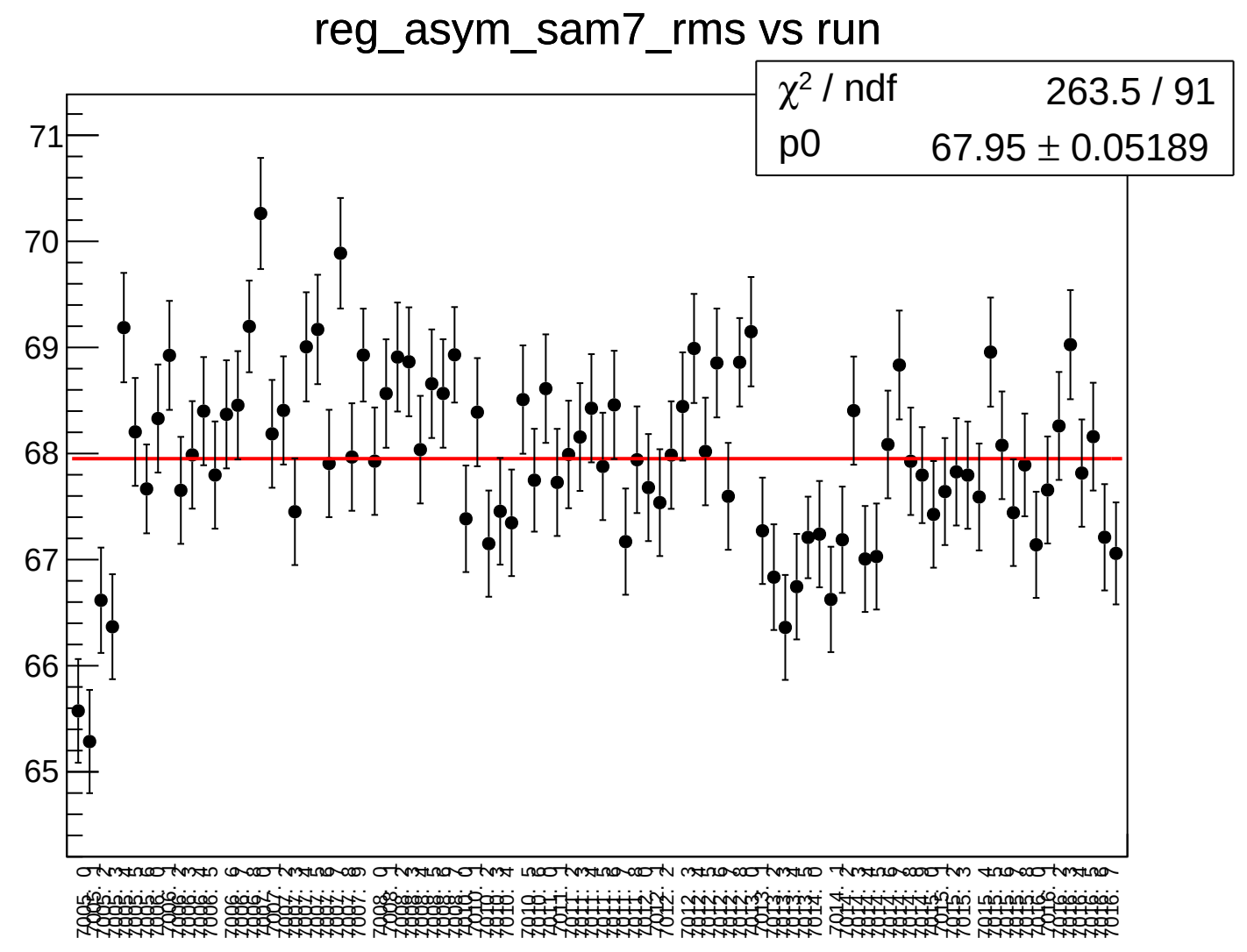

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.1 / 91
p0 −1.888e−14 ± 1.768e−14
pull
Entries 92
Mean 68.69
Std Dev 40.27

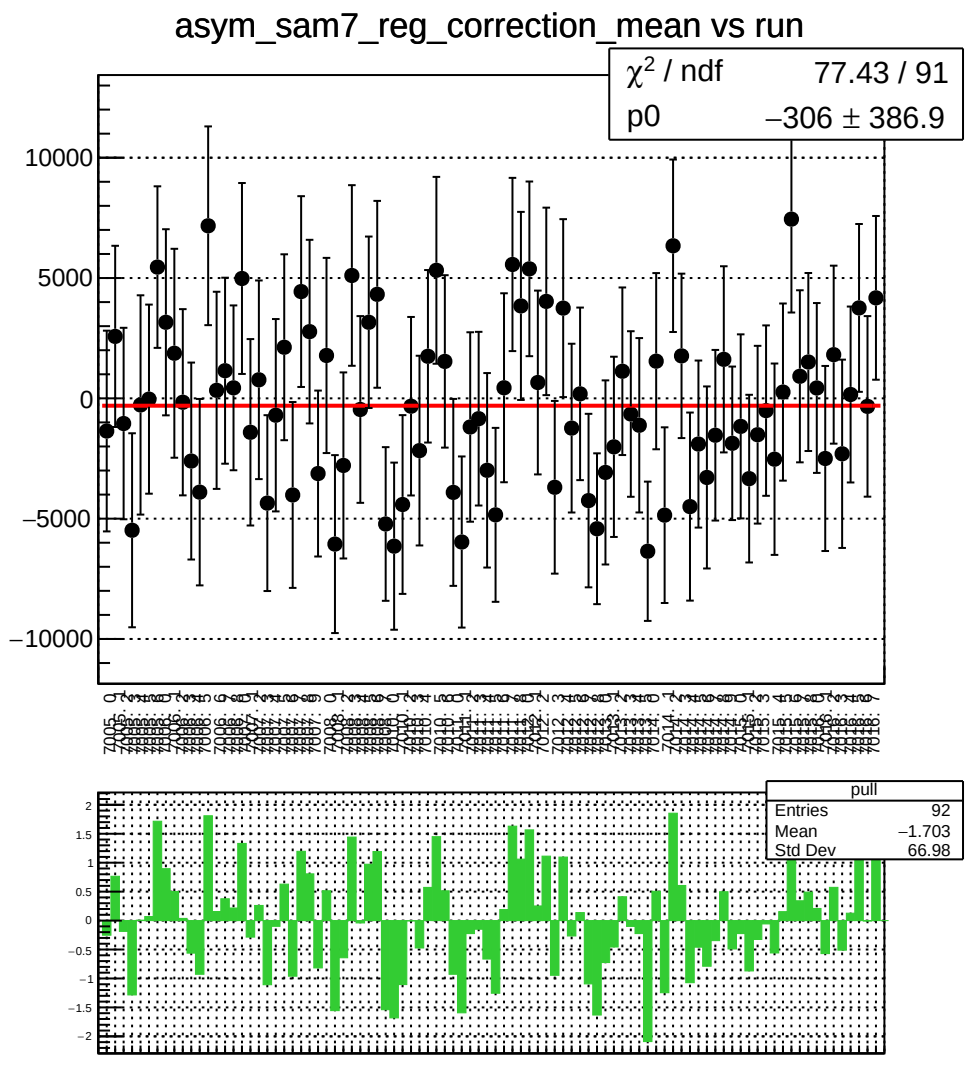

pull1D
Entries 92
Mean 0.08567
Std Dev 0.9859

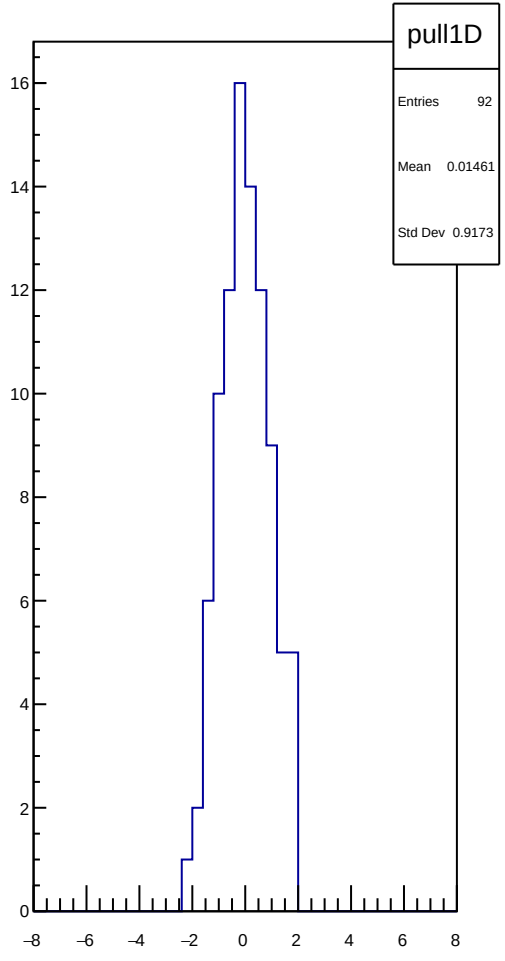

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.936e+05 / 91
p0 1.382e−11 ± 1.251e−14

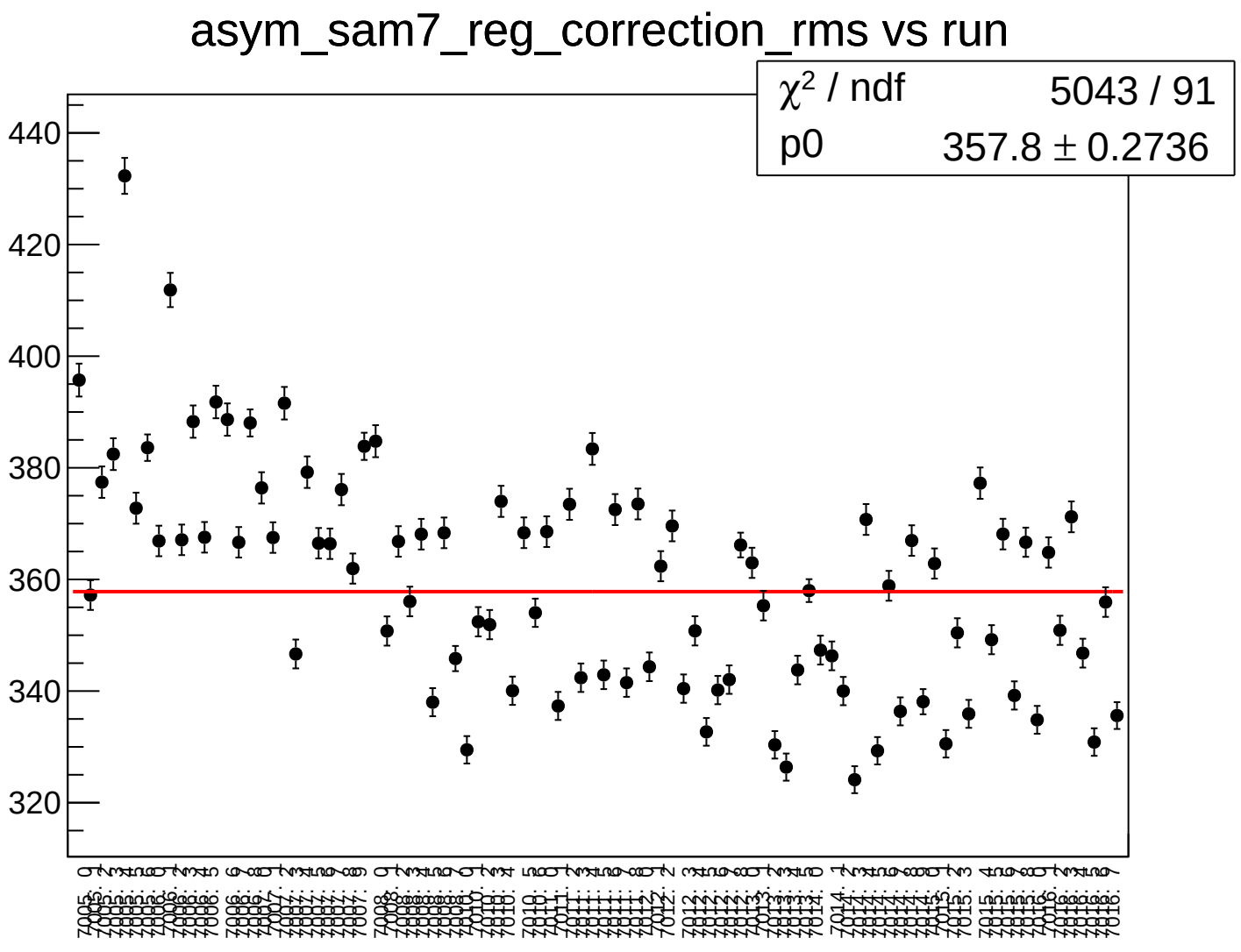

reg_asym_sam7_mean vs run
χ² / ndf 68.61 / 91
p0 223 ± 73.38
pull
Entries 92
Mean 271.3
Std Dev 0

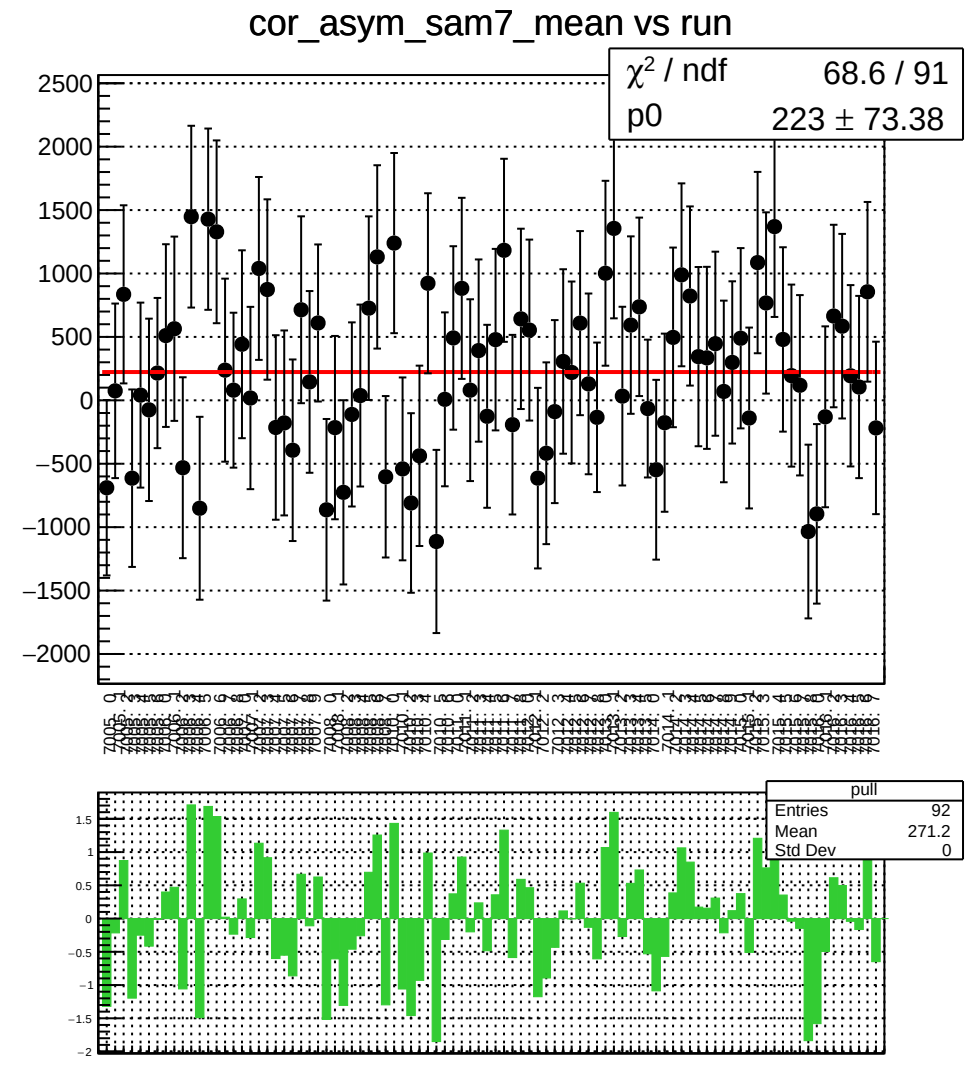

pull1D
Entries 92
Mean 0.006627
Std Dev 0.8635

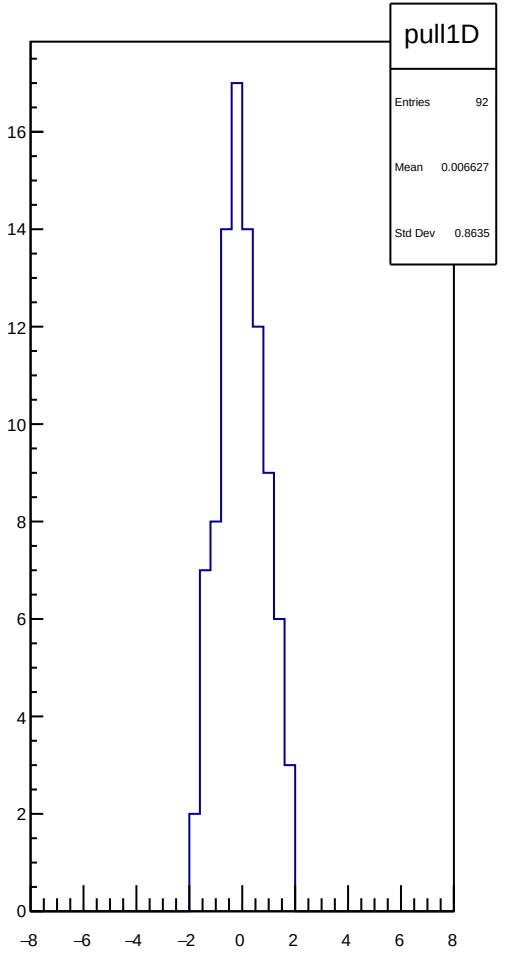

reg_asym_sam7_rms vs run
$\chi^2$ / ndf 263.5 / 91
p0 67.95 ± 0.05189
71
70
69
68
67
66
65

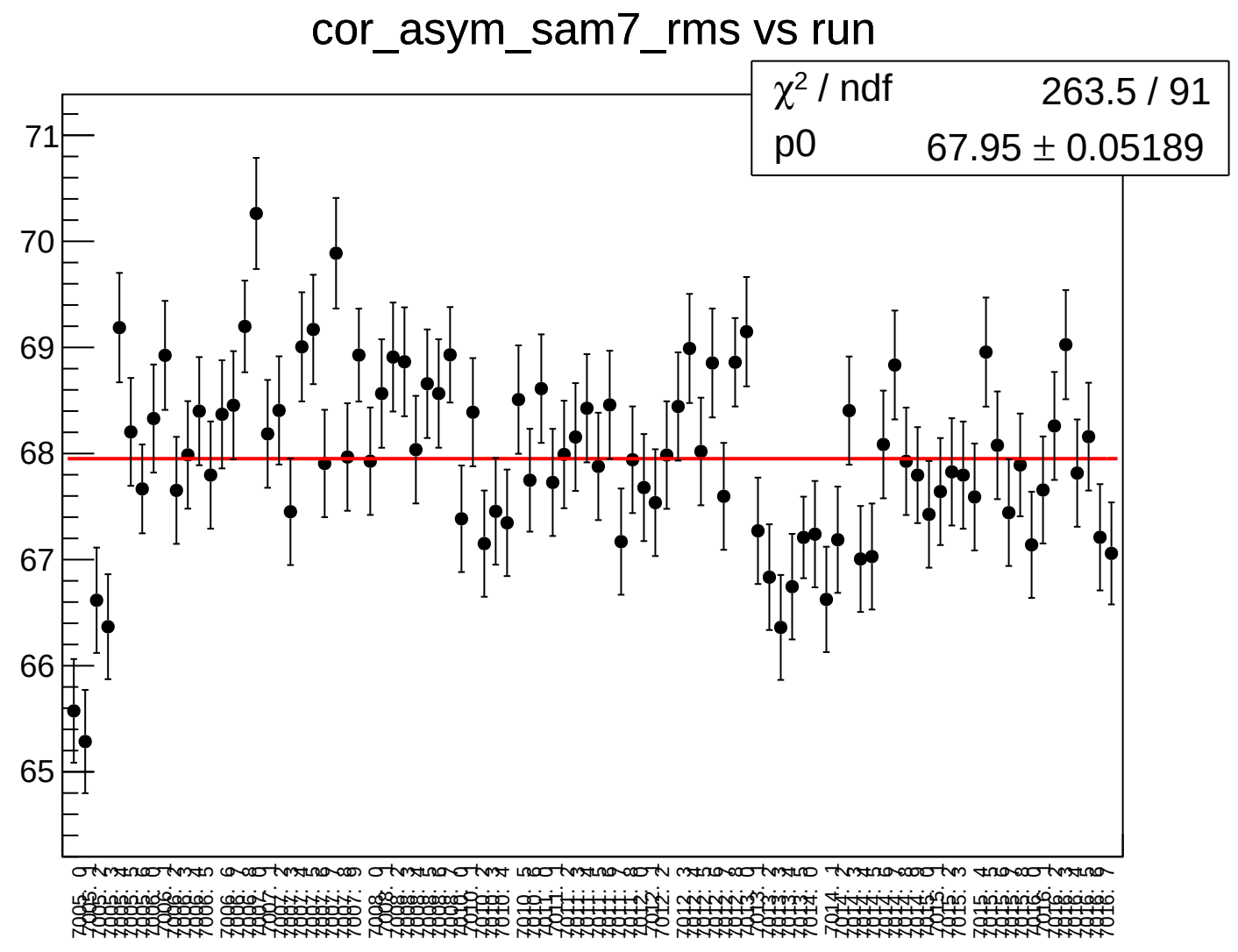

asym_sam7_reg_correction_mean vs run
χ² / ndf 77.43 / 91
p0 −306 ± 386.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1.703
Std Dev 66.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

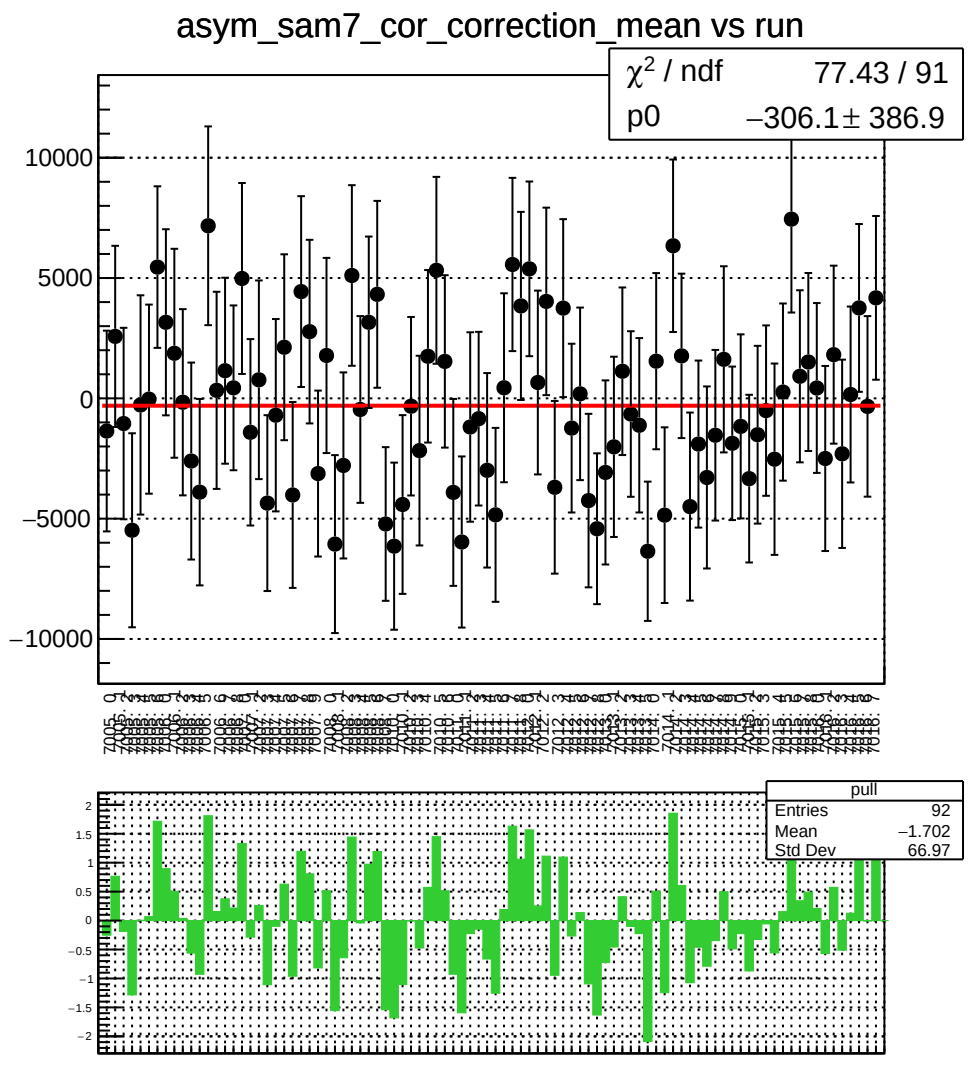

pull1D
Entries 92
Mean 0.01461
Std Dev 0.9173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

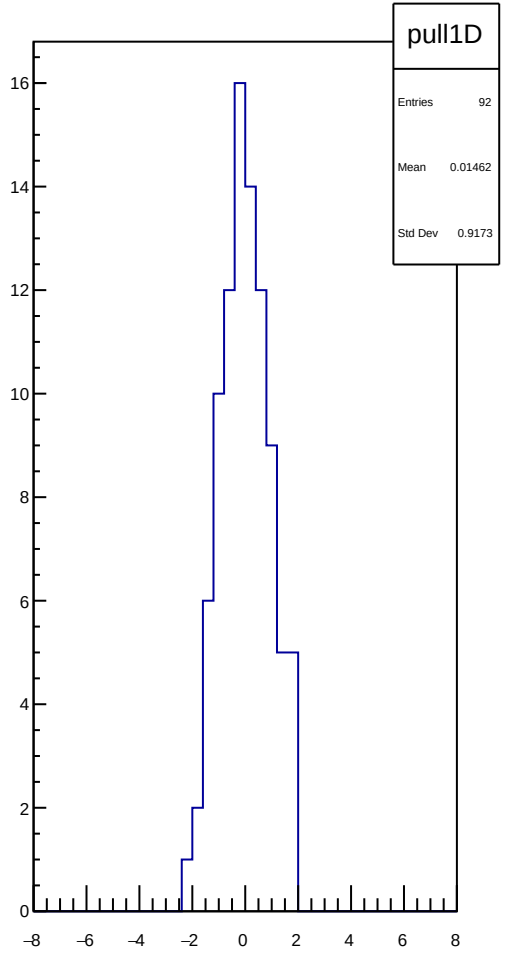

asym_sam7_reg_correction_rms vs run
χ² / ndf 5043 / 91
p0 357.8 ± 0.2736
440
420
400
380
360
340
320

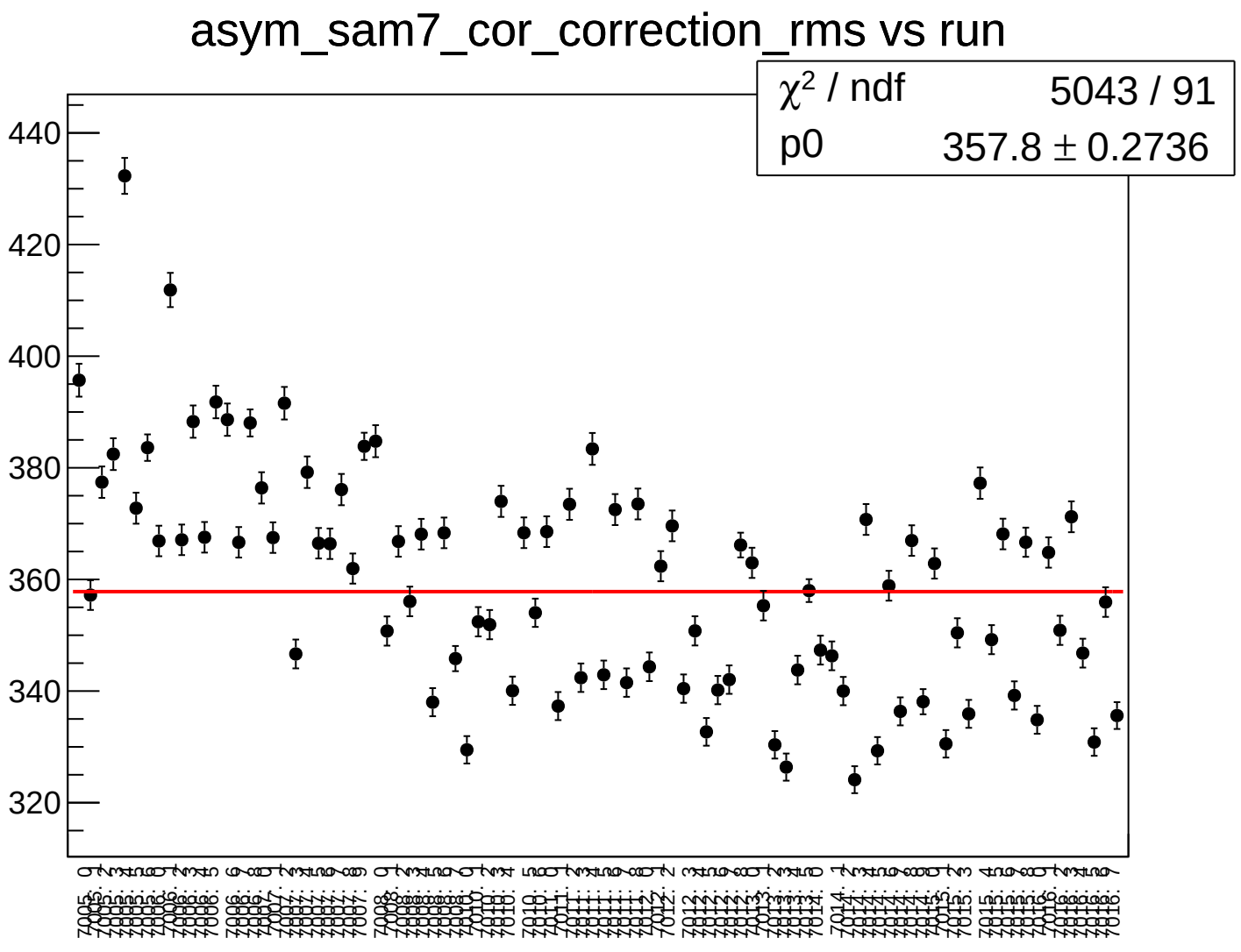

cor_asym_sam7_mean vs run
χ² / ndf 68.6 / 91
p0 223 ± 73.38
pull
Entries 92
Mean 271.2
Std Dev 0

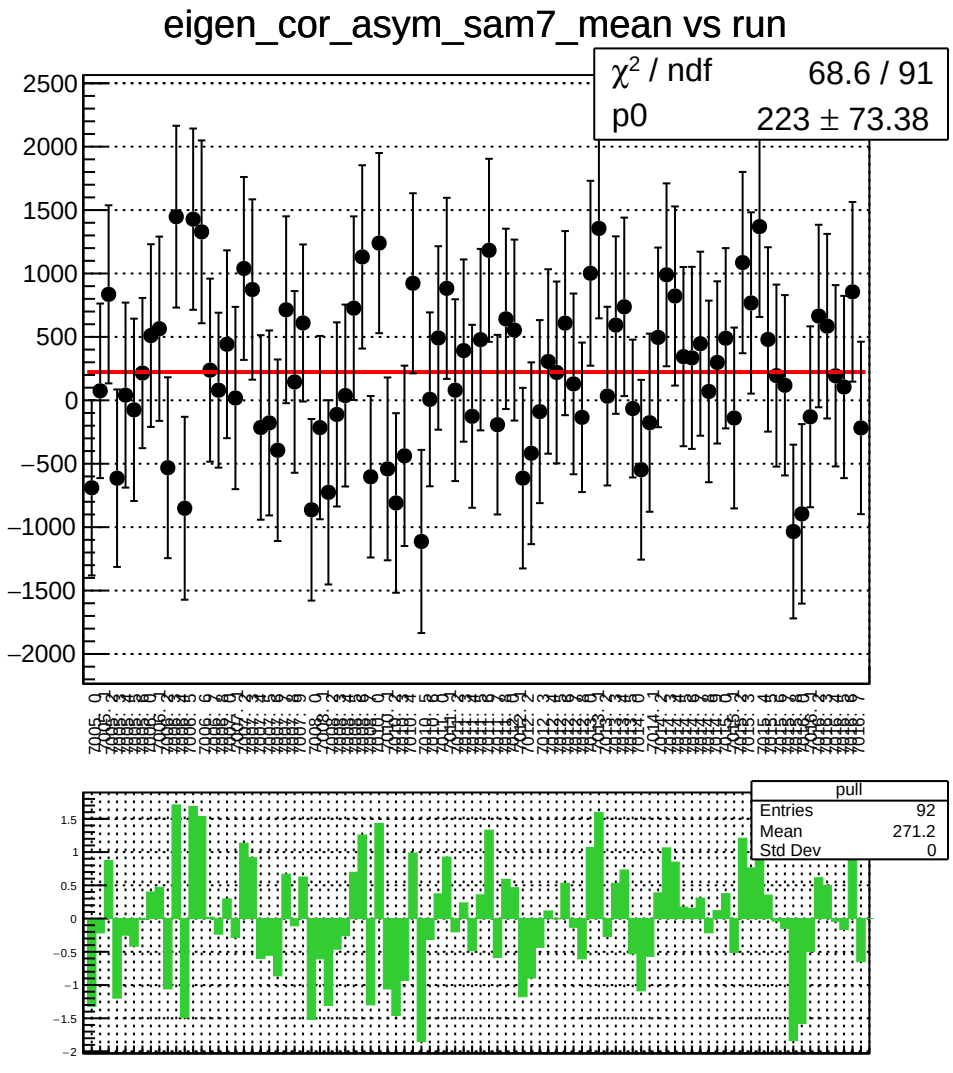

pull1D
Entries 92
Mean 0.006627
Std Dev 0.8635

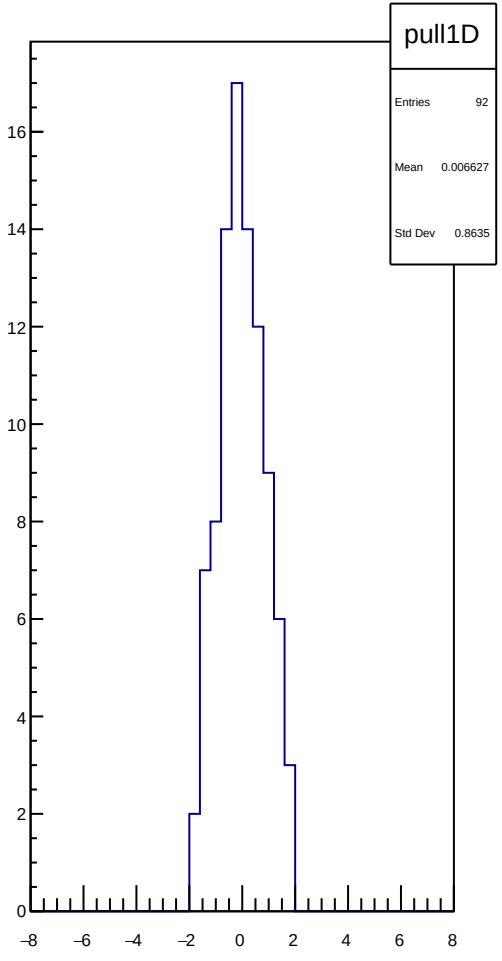

cor_asym_sam7_rms vs run
χ² / ndf 263.5 / 91
p0 67.95 ± 0.05189
71
70
69
68
67
66
65

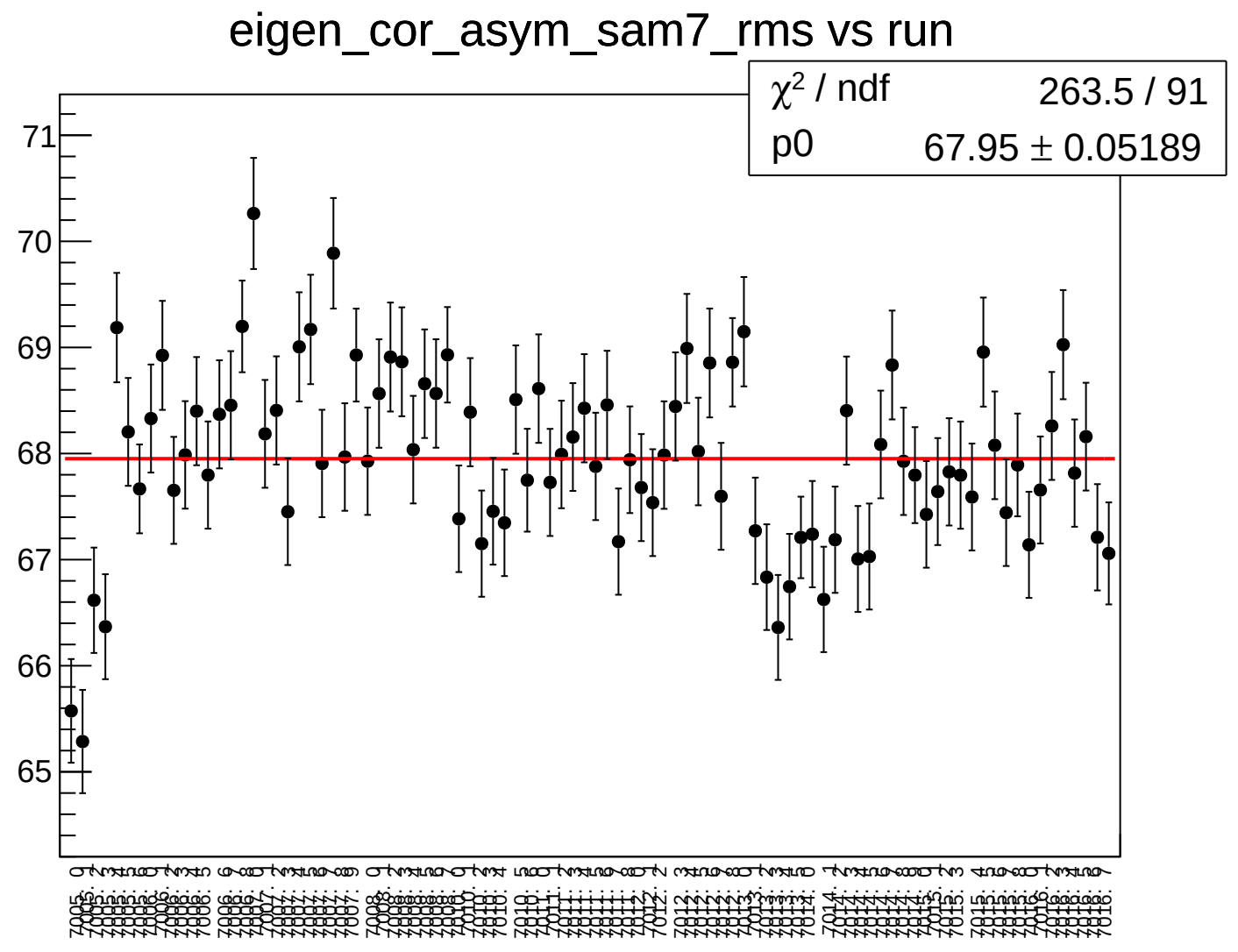

asym_sam7_cor_correction_mean vs run
χ² / ndf 77.43 / 91
p0 −306.1 ± 386.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1.702
Std Dev 66.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

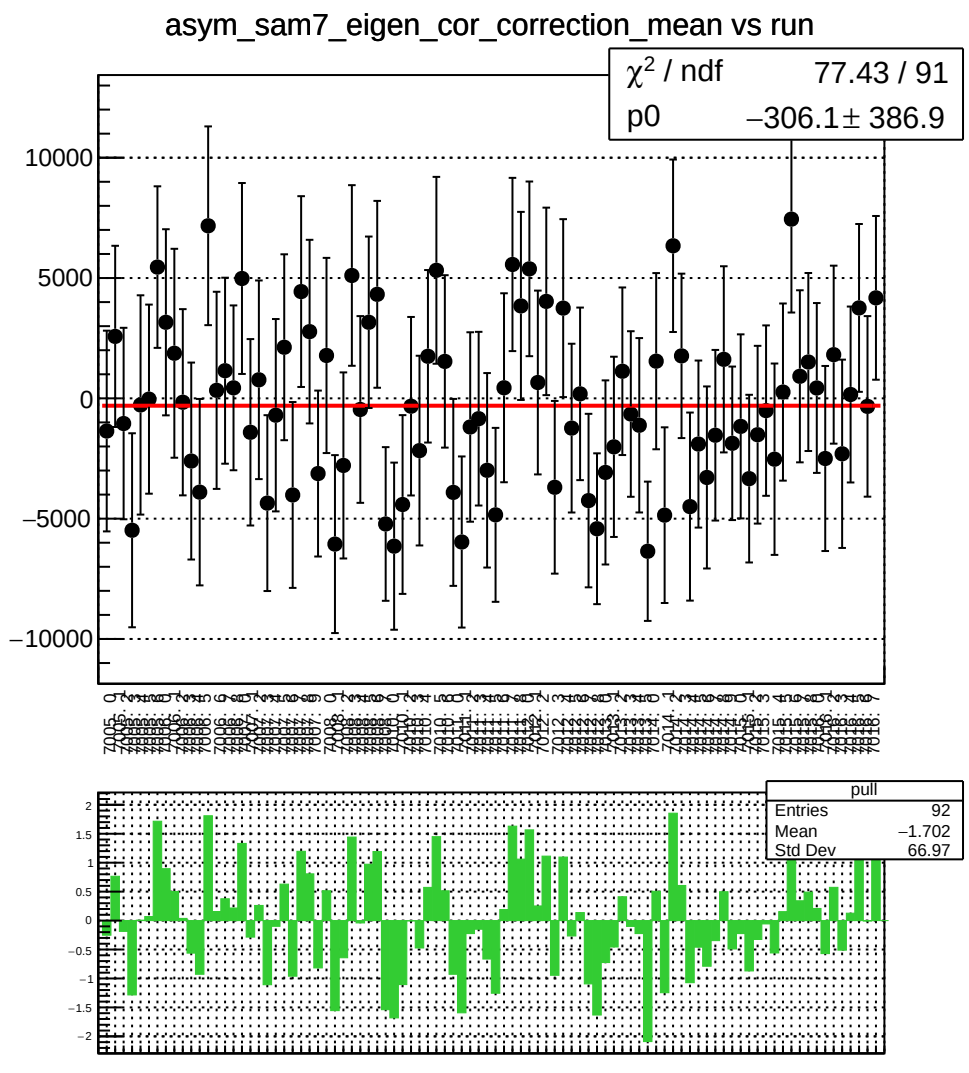

pull1D
Entries 92
Mean 0.01462
Std Dev 0.9173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

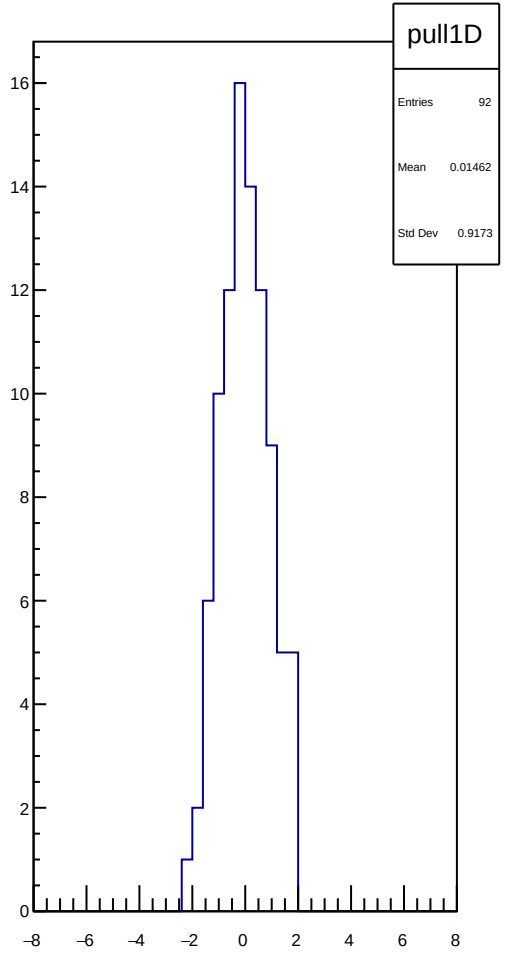

asym_sam7_cor_correction_rms vs run
χ² / ndf 5043 / 91
p0 357.8 ± 0.2736
440
420
400
380
360
340
320

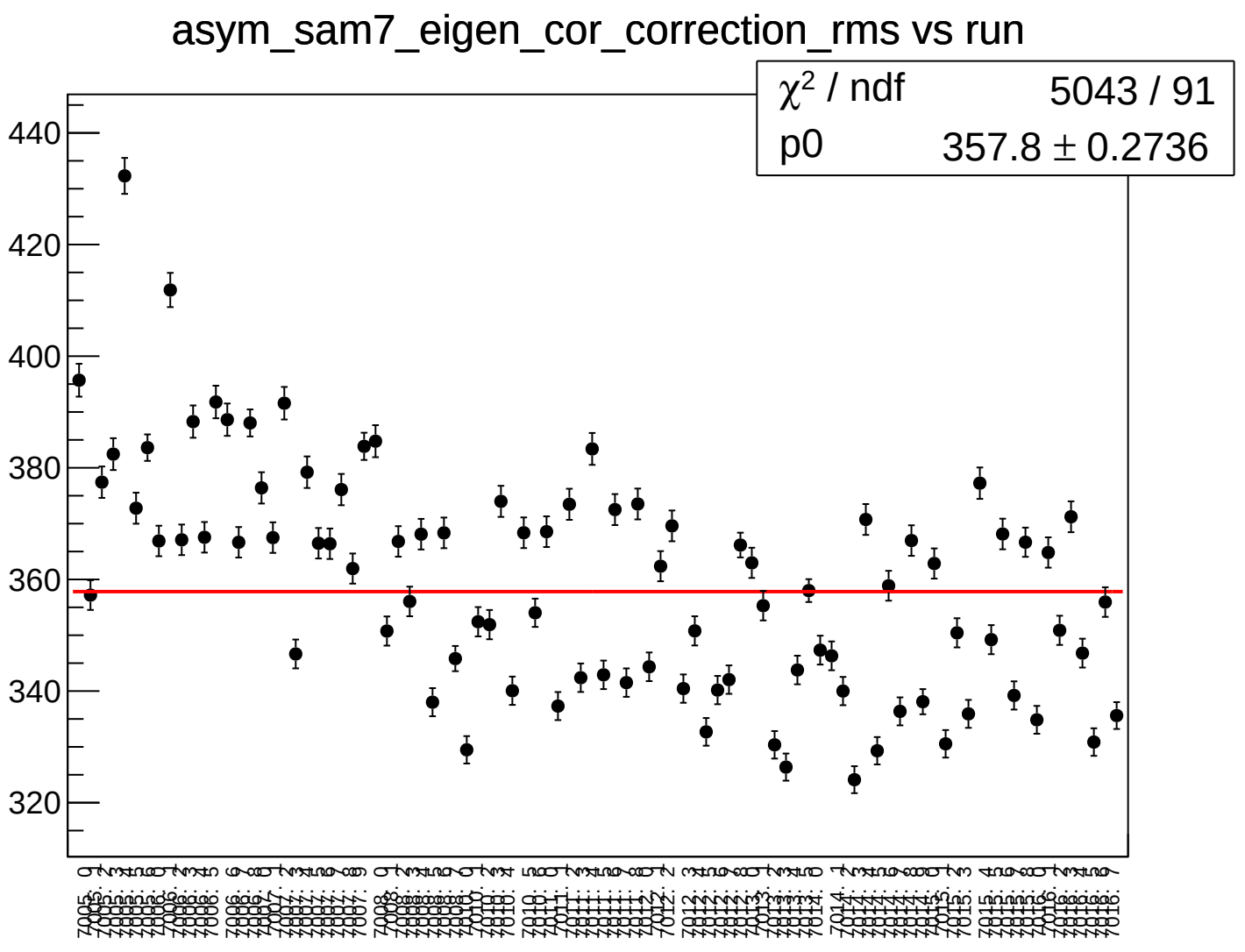

eigen_cor_asym_sam7_mean vs run
$\chi^2$ / ndf 68.6 / 91
p0 223 ± 73.38
pull
Entries 92
Mean 271.2
Std Dev 0

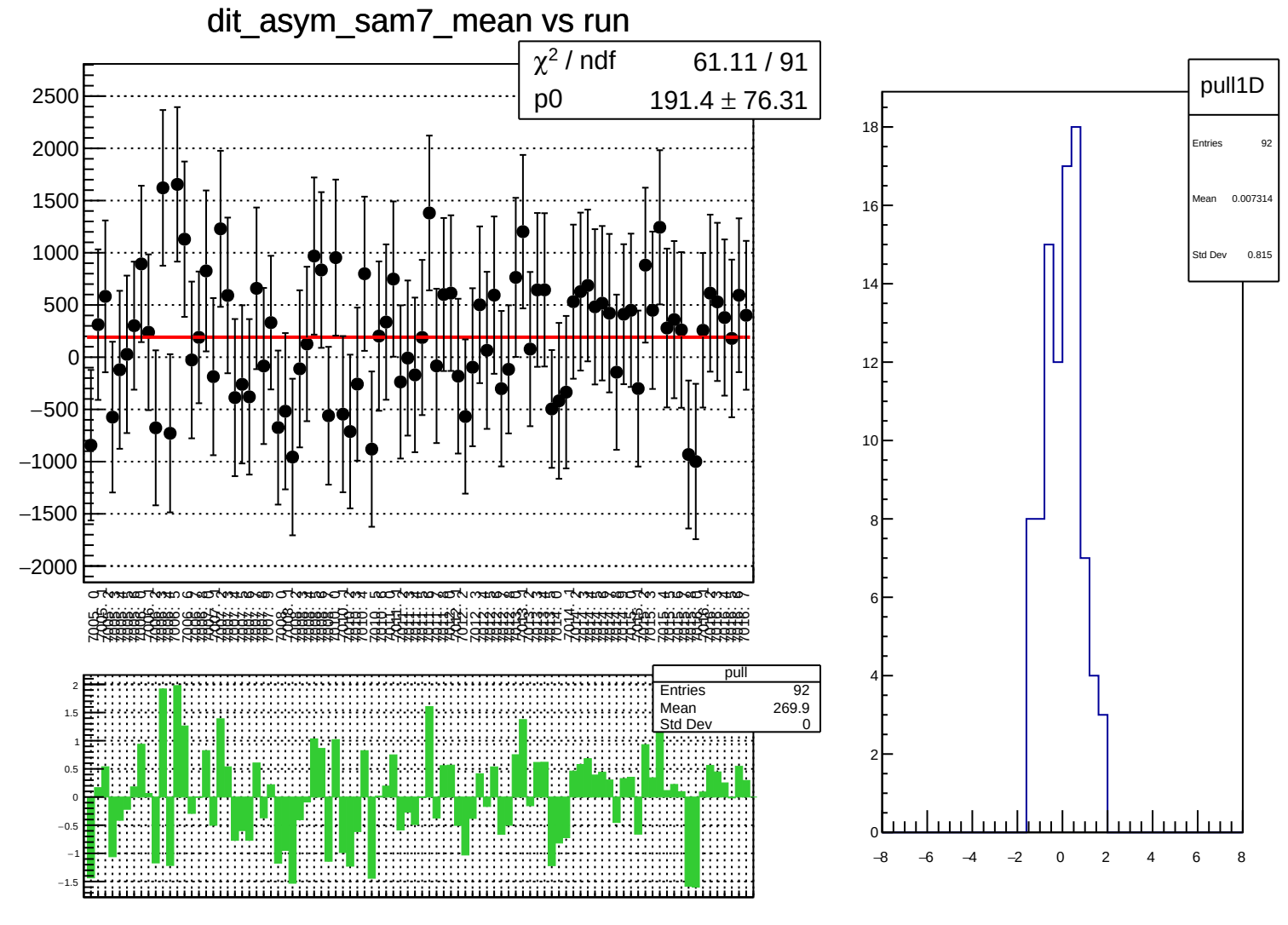

pull1D
Entries 92
Mean 0.006627
Std Dev 0.8635

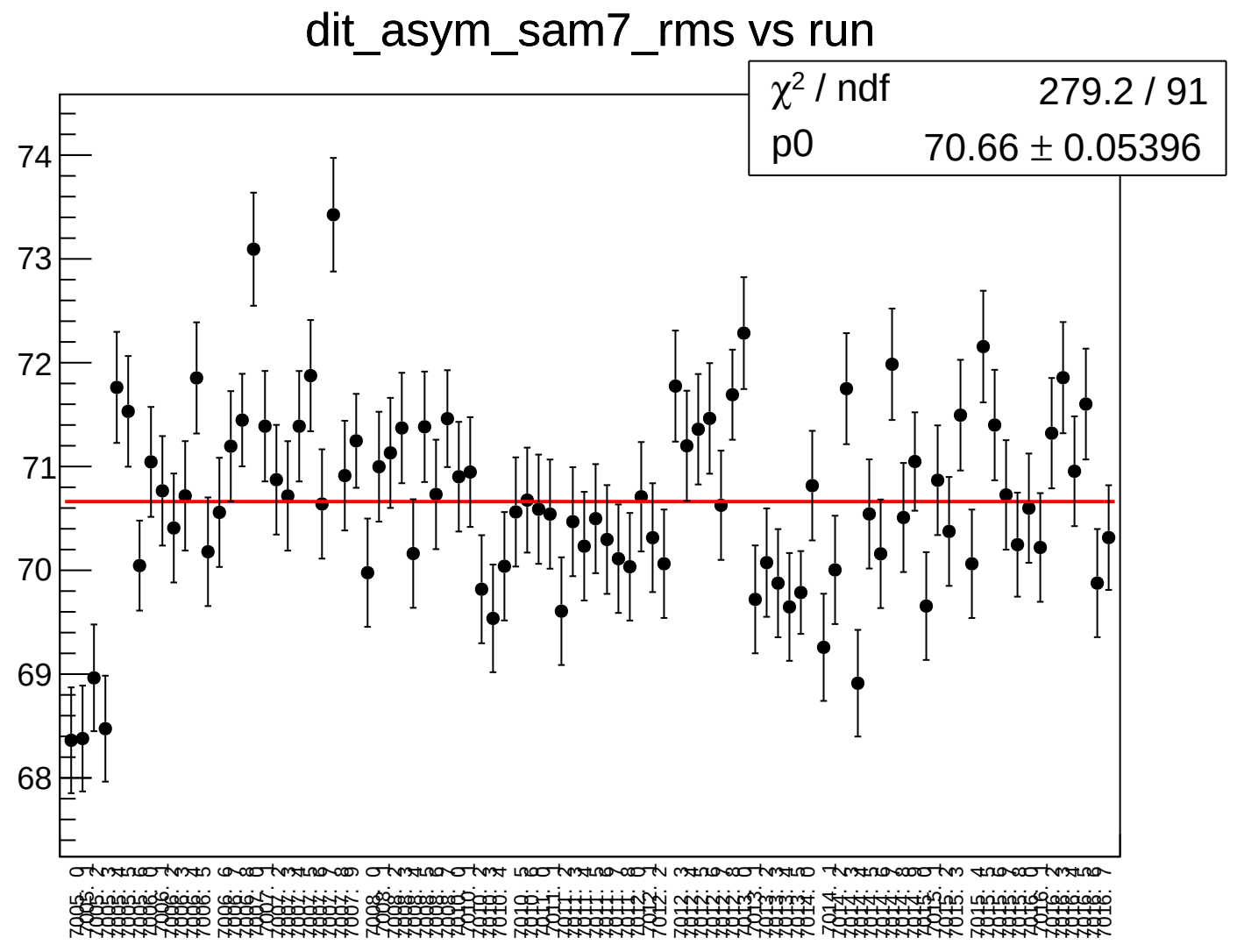

eigen_cor_asym_sam7_rms vs run
χ² / ndf 263.5 / 91
p0 67.95 ± 0.05189
71
70
69
68
67
66
65

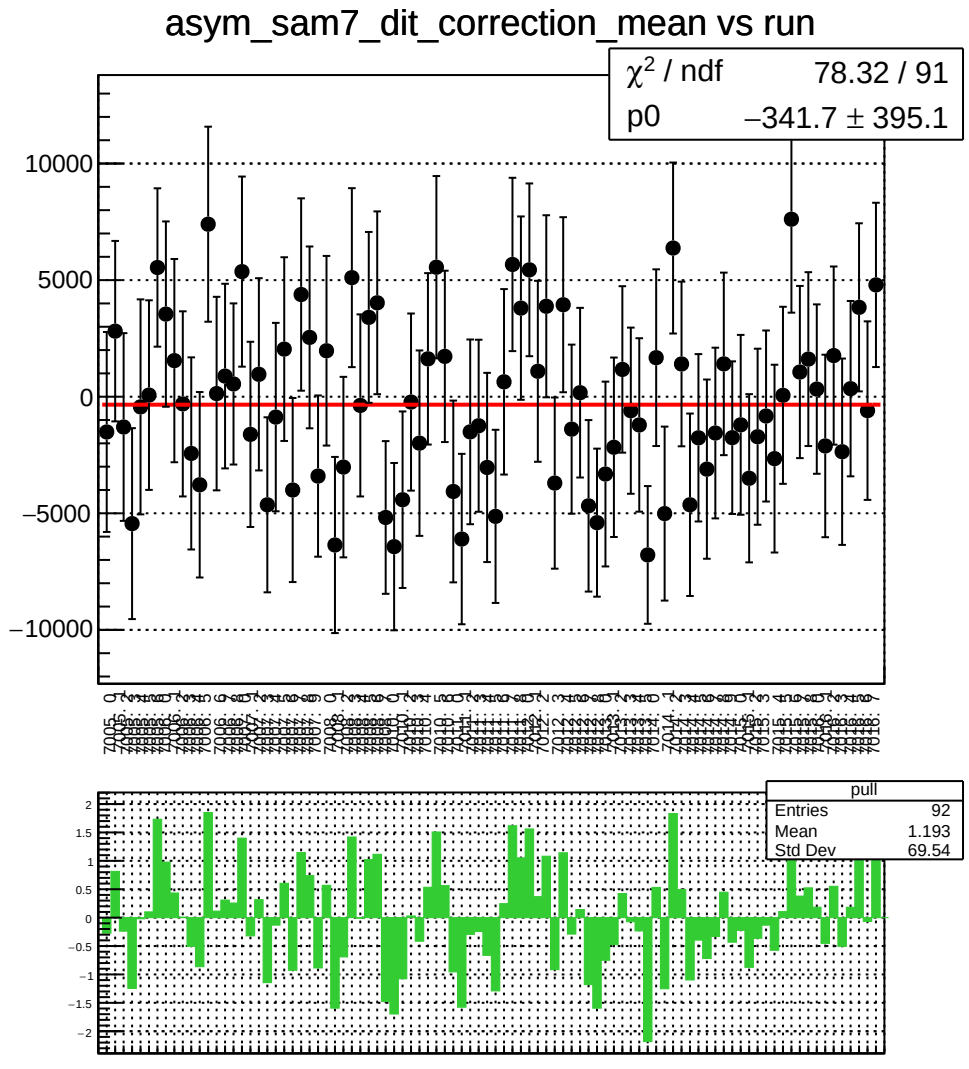

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 77.43 / 91
p0 −306.1± 386.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −1.702
Std Dev 66.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

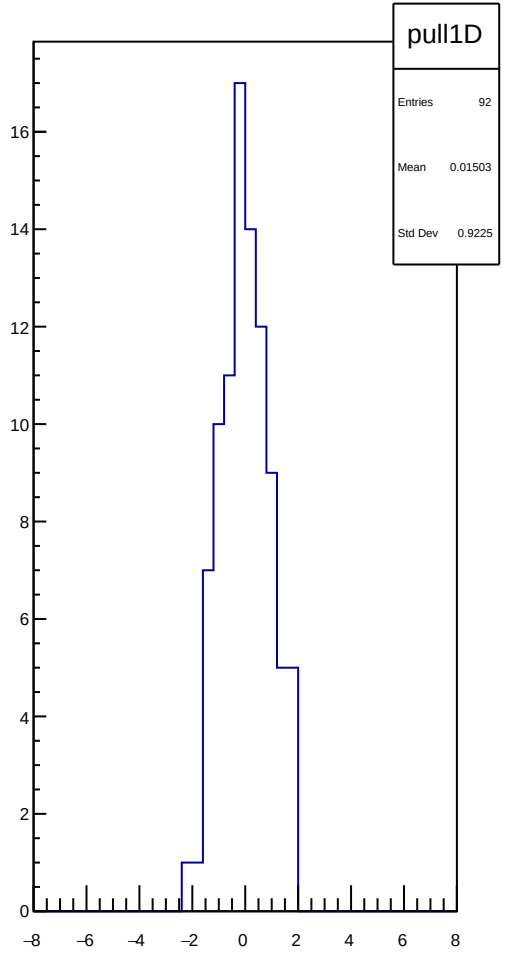

pull1D
Entries 92
Mean 0.01462
Std Dev 0.9173
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

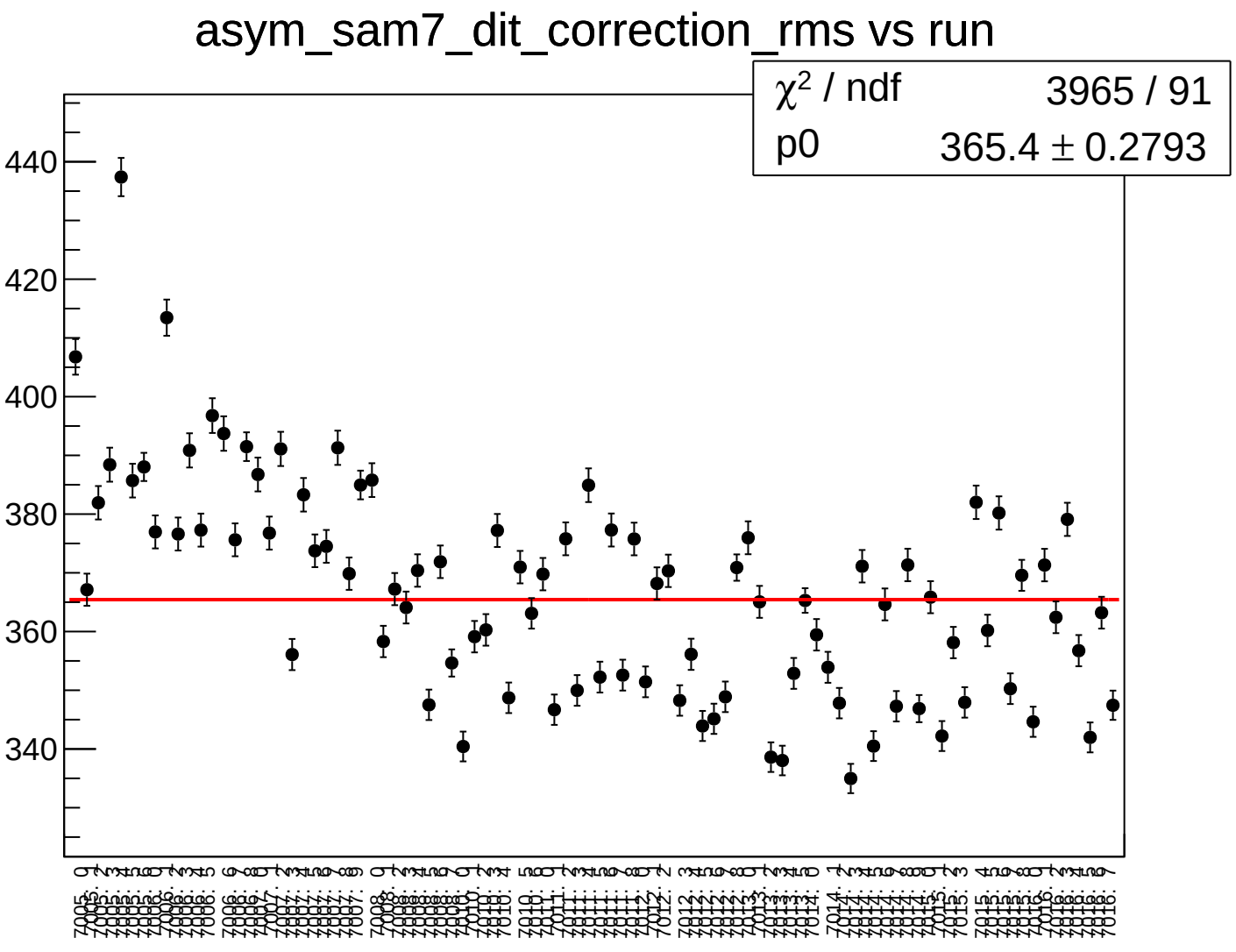

asym_sam7_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 5043 / 91
p0 357.8 ± 0.2736
440
420
400
380
360
340
320

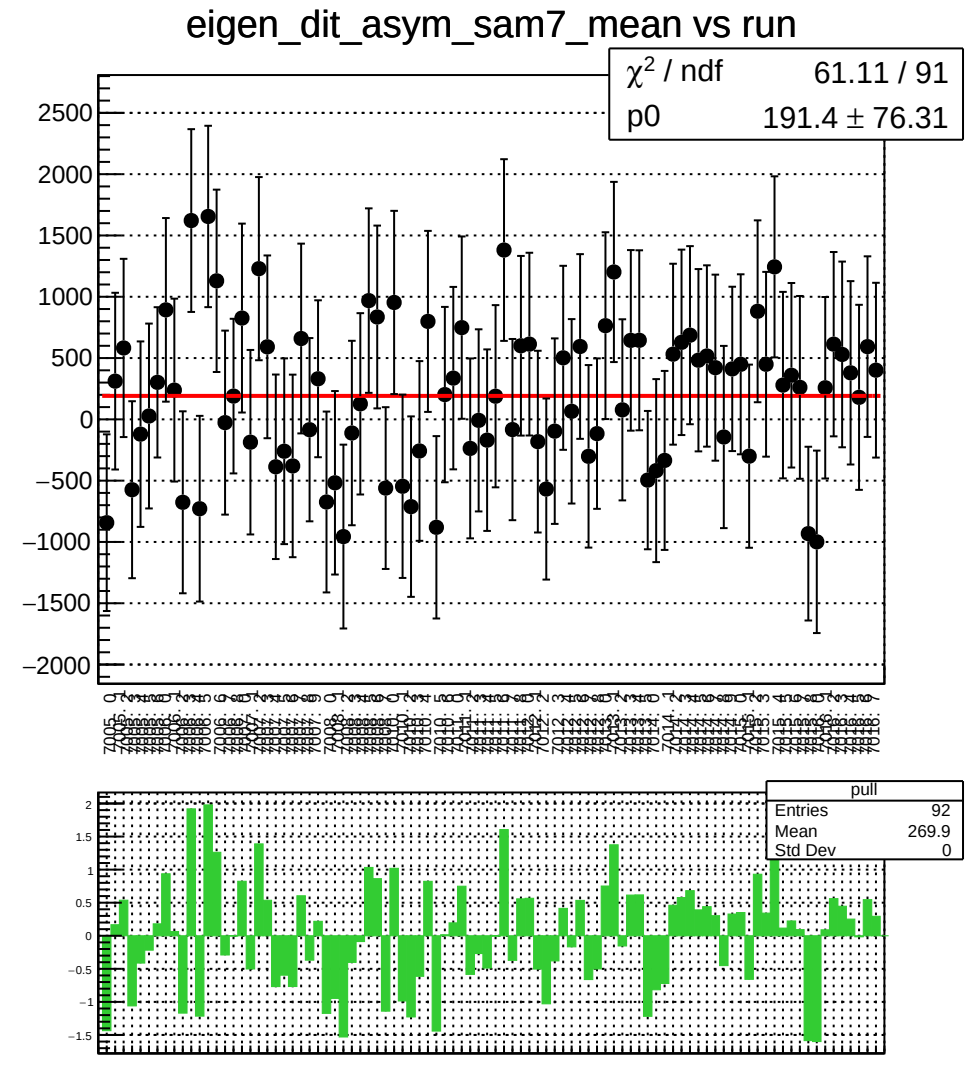

dit_asym_sam7_mean vs run
χ² / ndf 61.11 / 91
p0 191.4 ± 76.31
pull
Entries 92
Mean 269.9
Std Dev 0
pull1D
Entries 92
Mean 0.007314
Std Dev 0.815

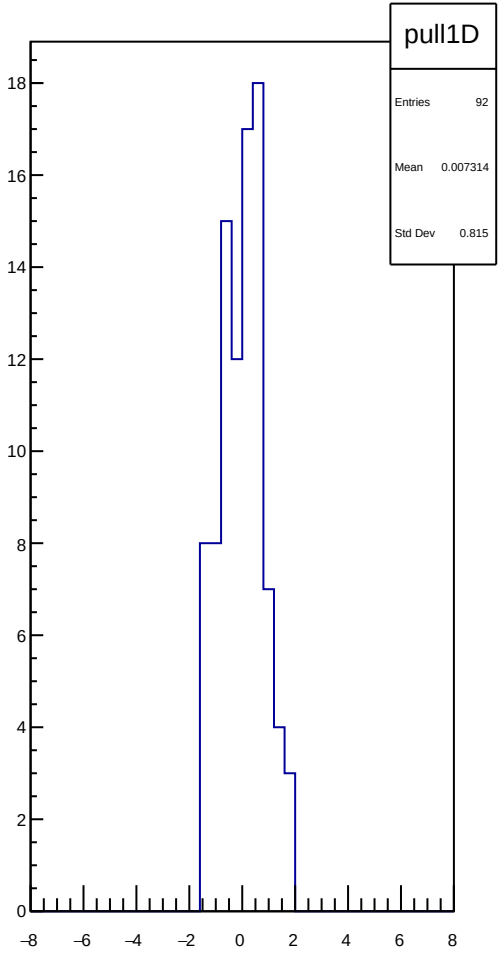

dit_asym_sam7_rms vs run
$\chi^2$ / ndf 279.2 / 91
p0 70.66 ± 0.05396
74
73
72
71
70
69
68

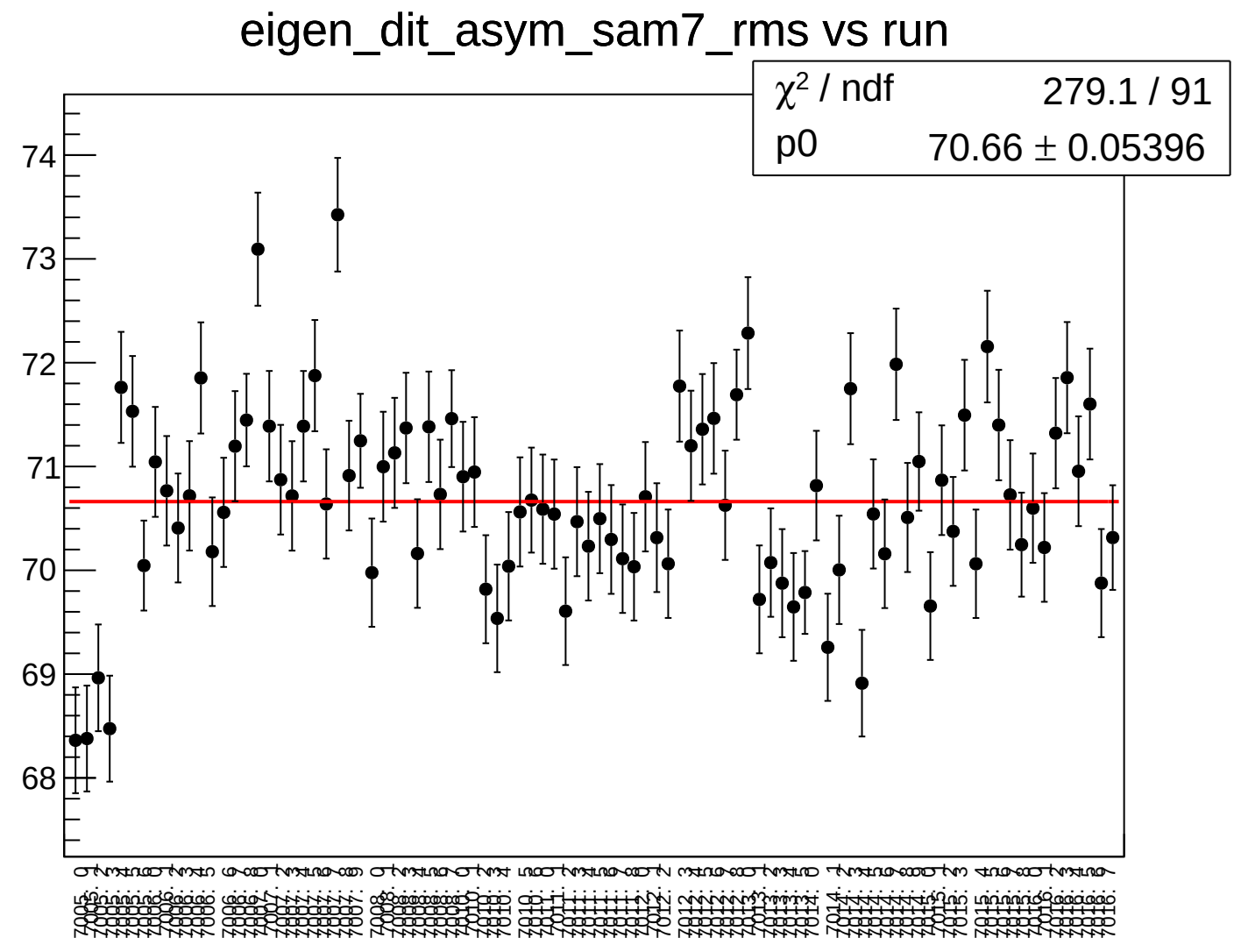

asym_sam7_dit_correction_mean vs run
χ² / ndf 78.32 / 91
p0 −341.7 ± 395.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 1.193
Std Dev 69.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

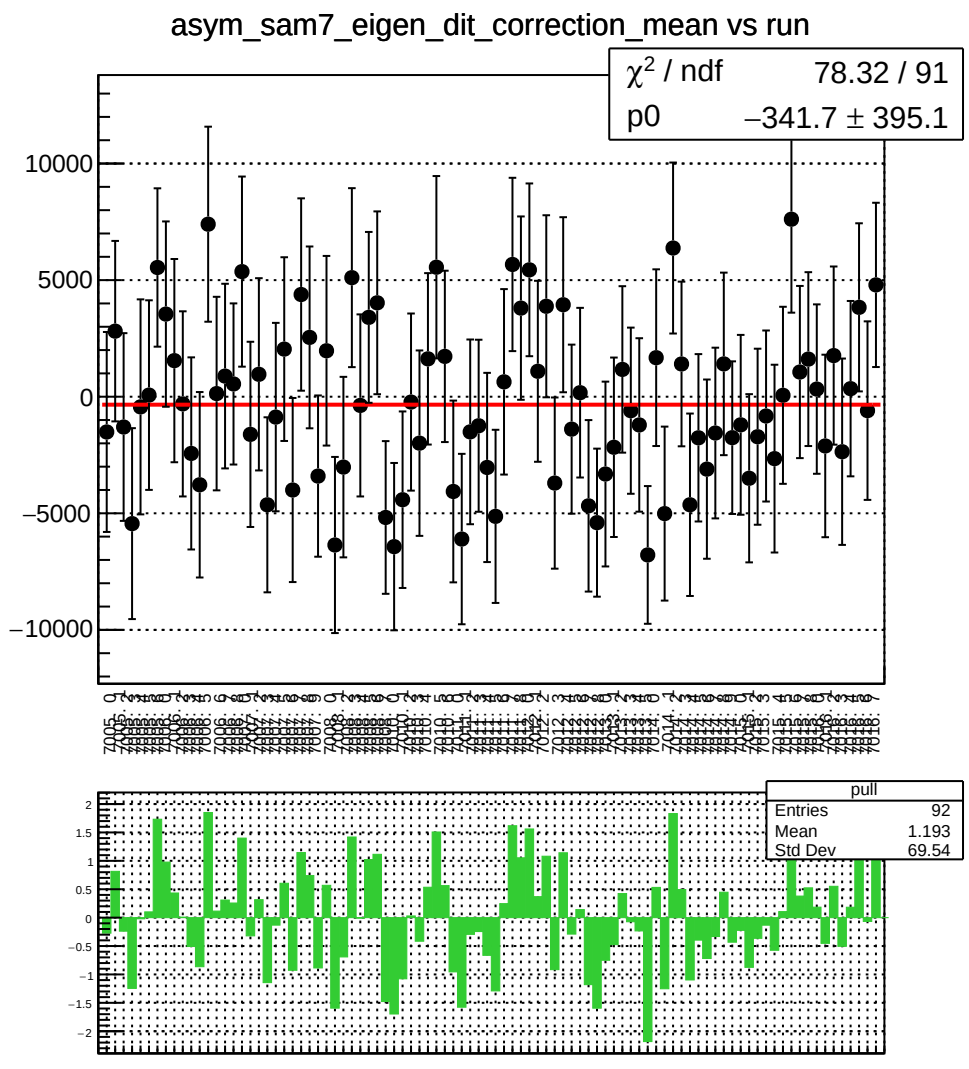

pull1D
Entries 92
Mean 0.01503
Std Dev 0.9225
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

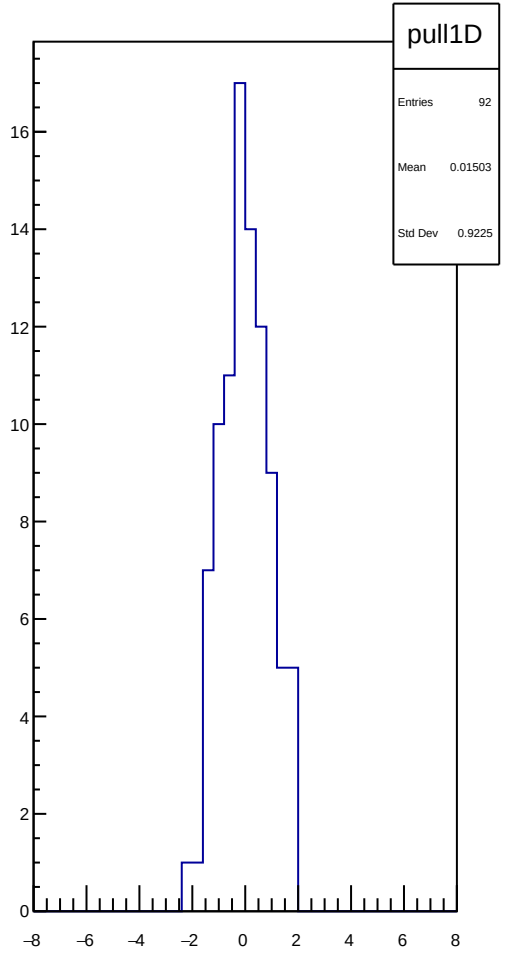

asym_sam7_dit_correction_rms vs run
χ² / ndf 3965 / 91
p0 365.4 ± 0.2793
440
420
400
380
360
340

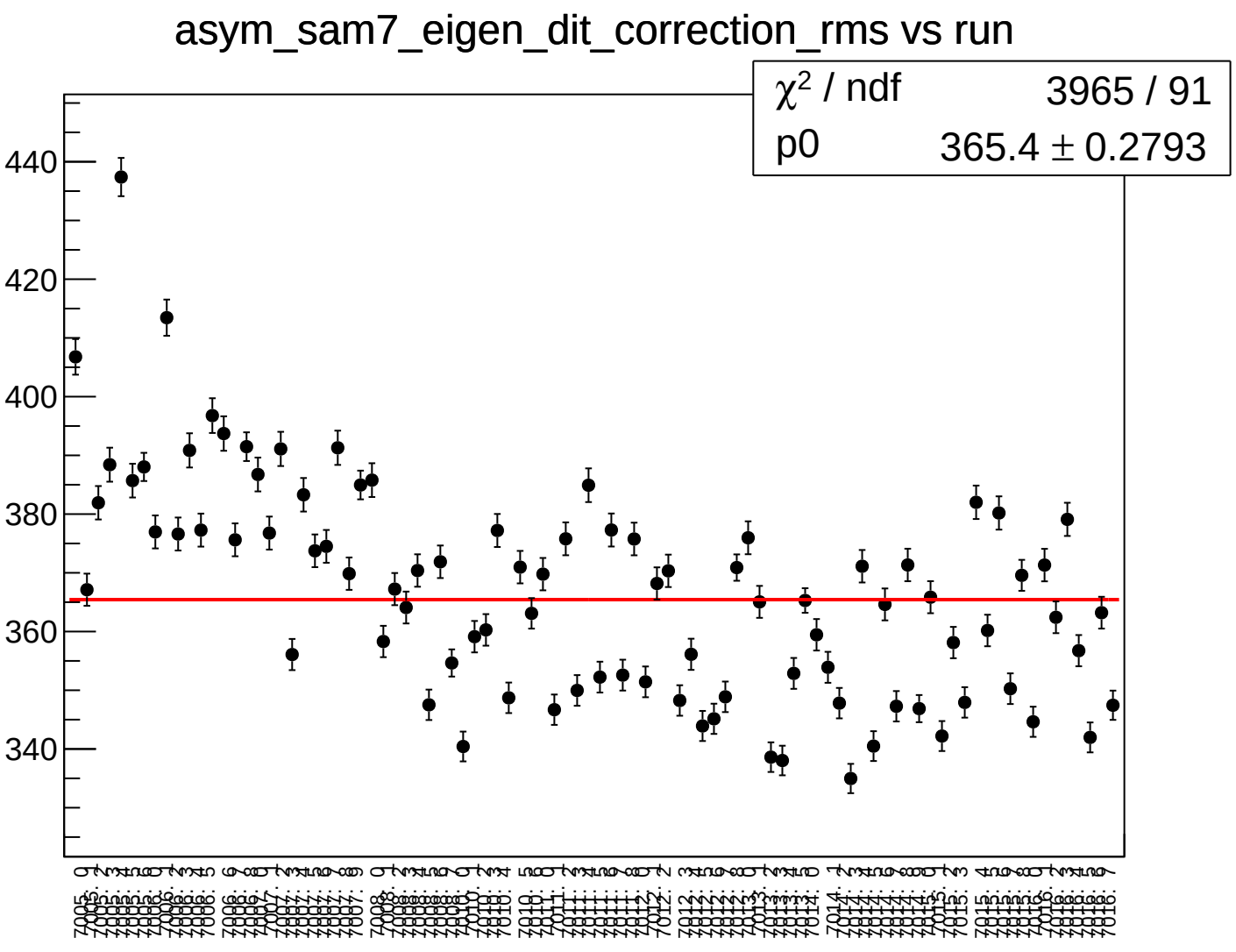

eigen_dit_asym_sam7_mean vs run
χ² / ndf 61.11 / 91
p0 191.4 ± 76.31
pull
Entries 92
Mean 269.9
Std Dev 0

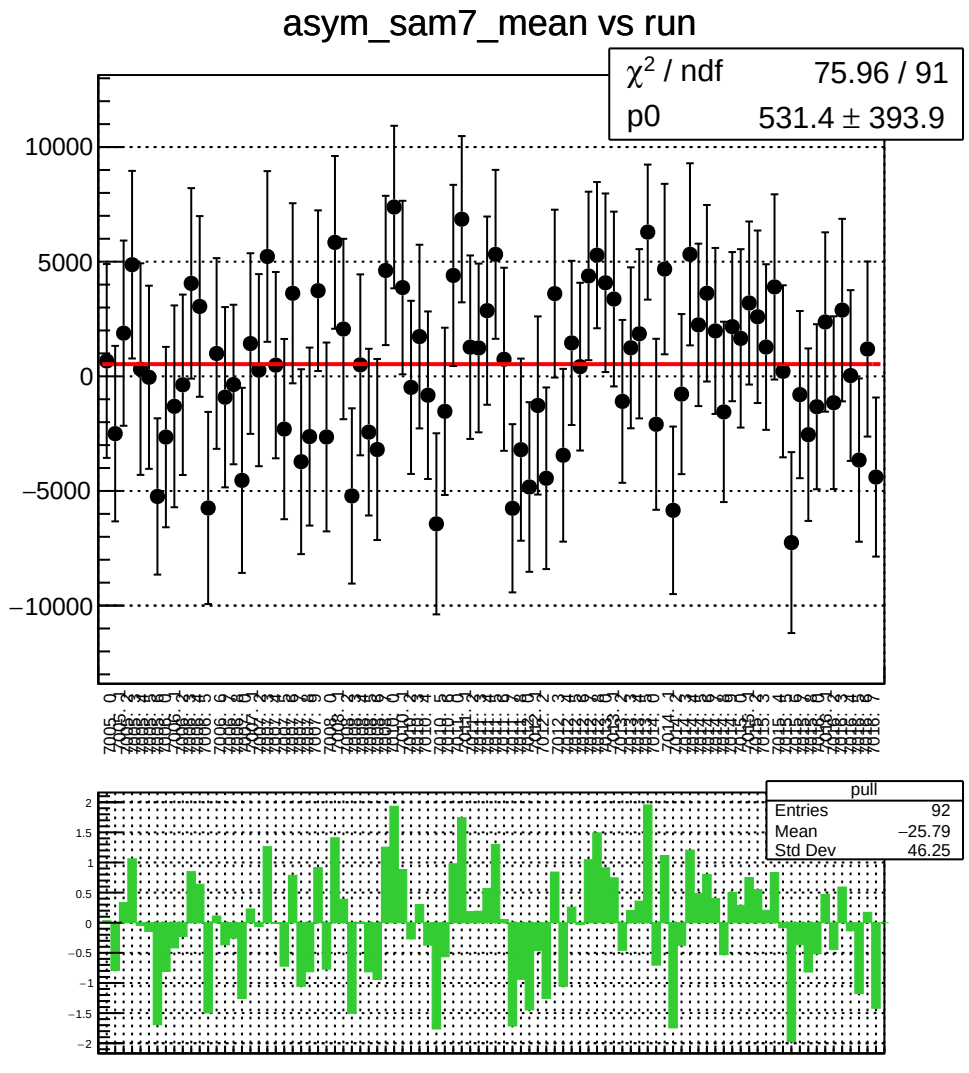

pull1D
Entries 92
Mean 0.007314
Std Dev 0.815

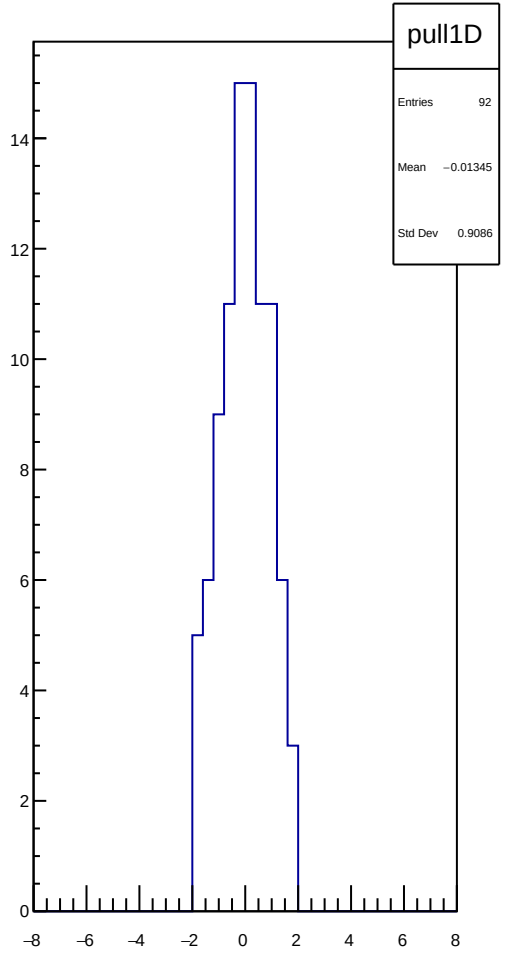

eigen_dit_asym_sam7_rms vs run
χ² / ndf 279.1 / 91
p0 70.66 ± 0.05396
74
73
72
71
70
69
68

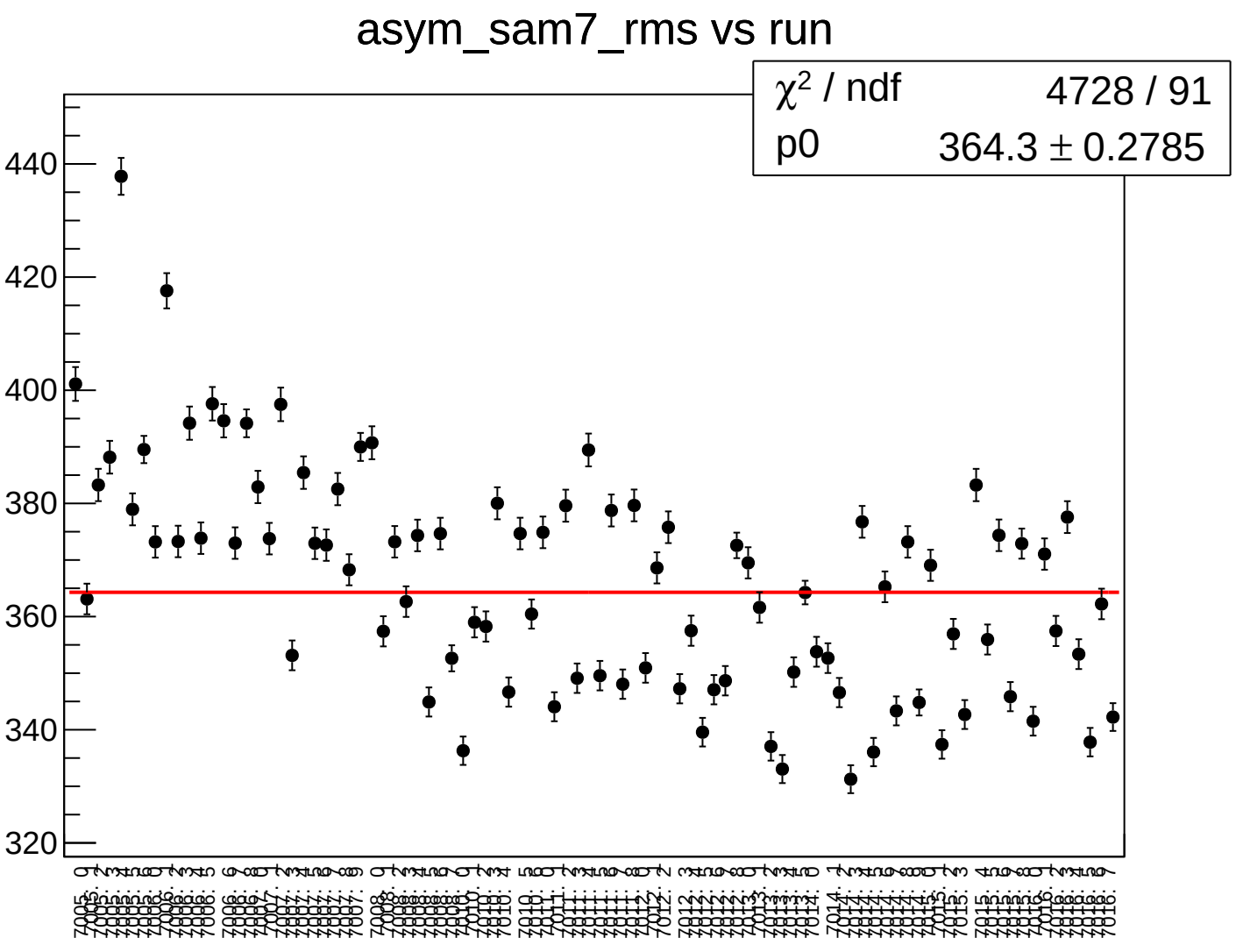

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 78.32 / 91
p0 −341.7 ± 395.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 1.193
Std Dev 69.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

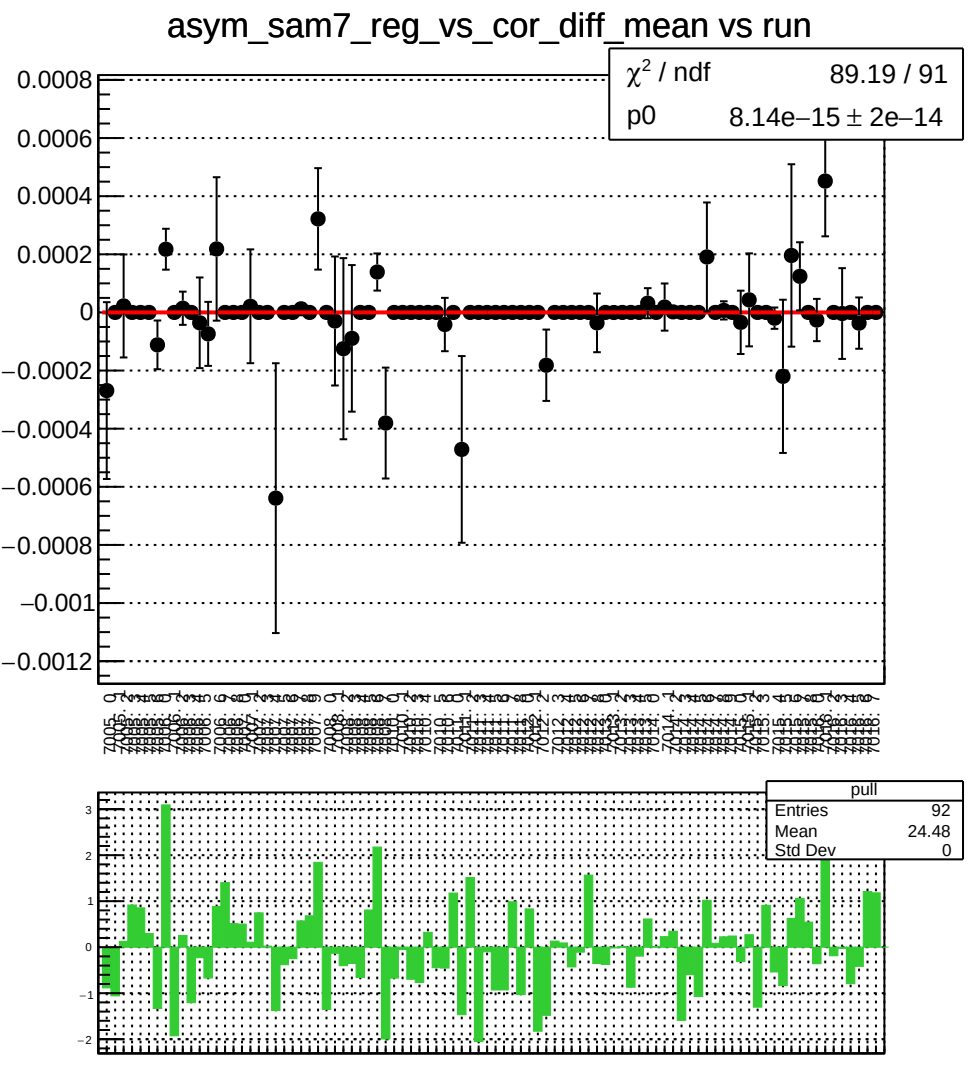

pull1D
Entries 92
Mean 0.01503
Std Dev 0.9225
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

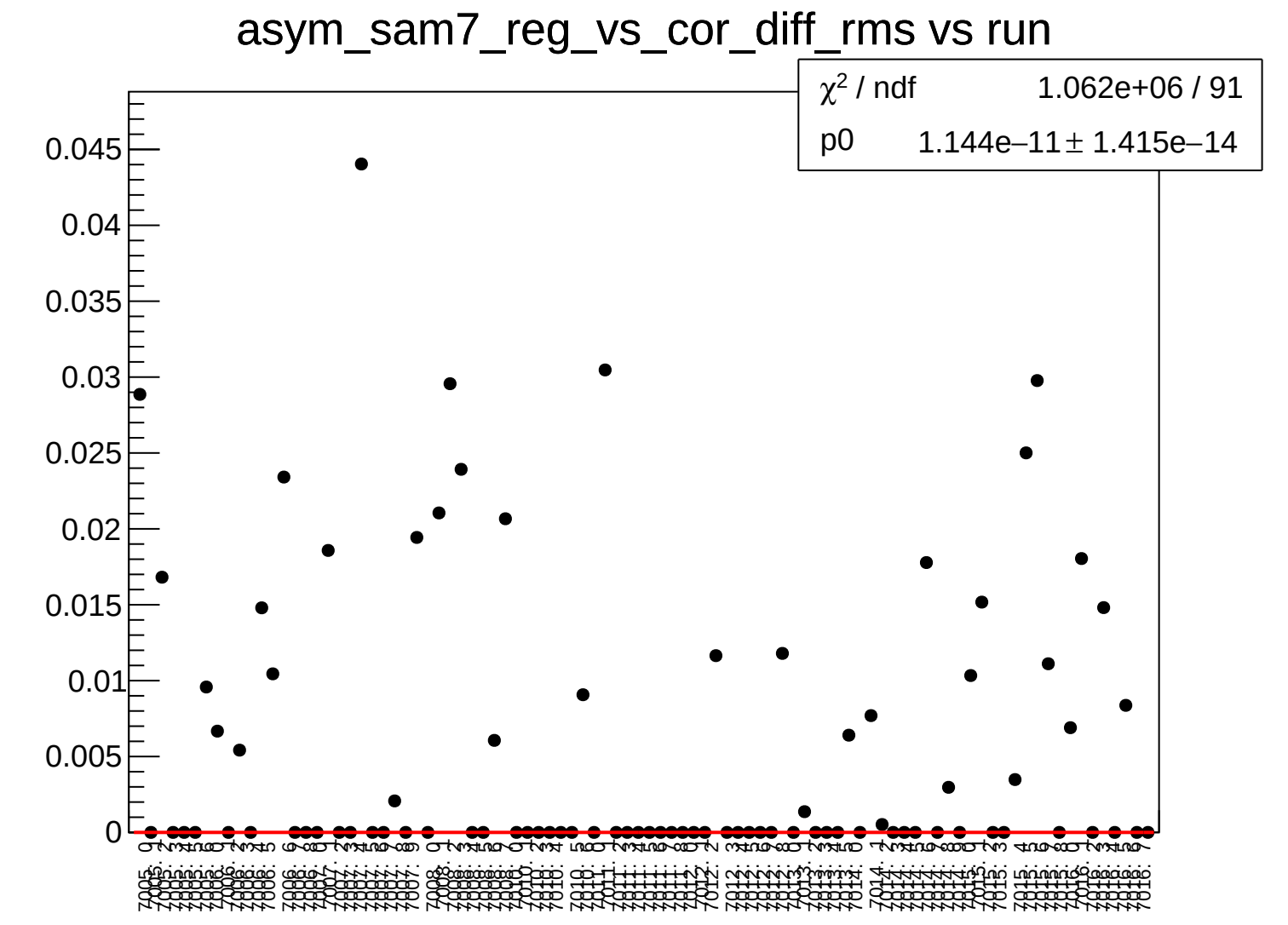

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3965 / 91
p0 365.4 ± 0.2793
440
420
400
380
360
340

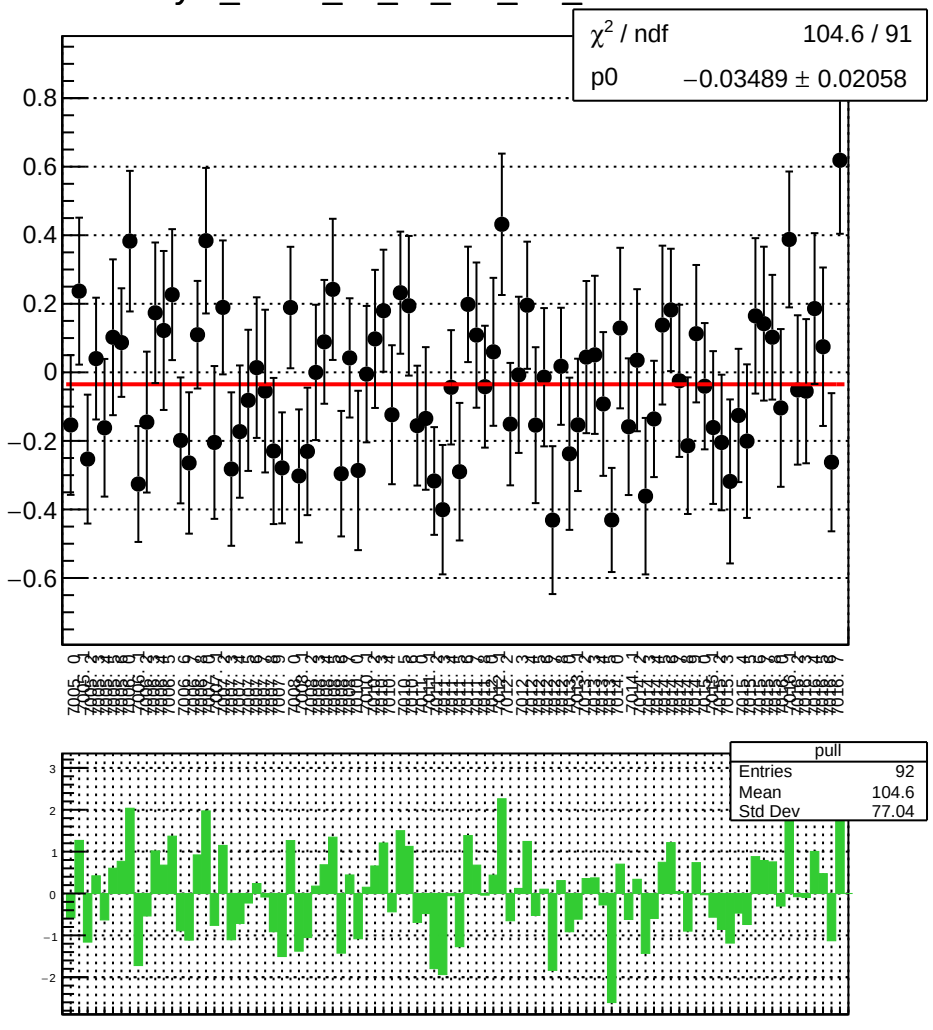

asym_sam7_mean vs run
$\chi^2$ / ndf 75.96 / 91
p0 531.4 ± 393.9
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −25.79
Std Dev 46.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

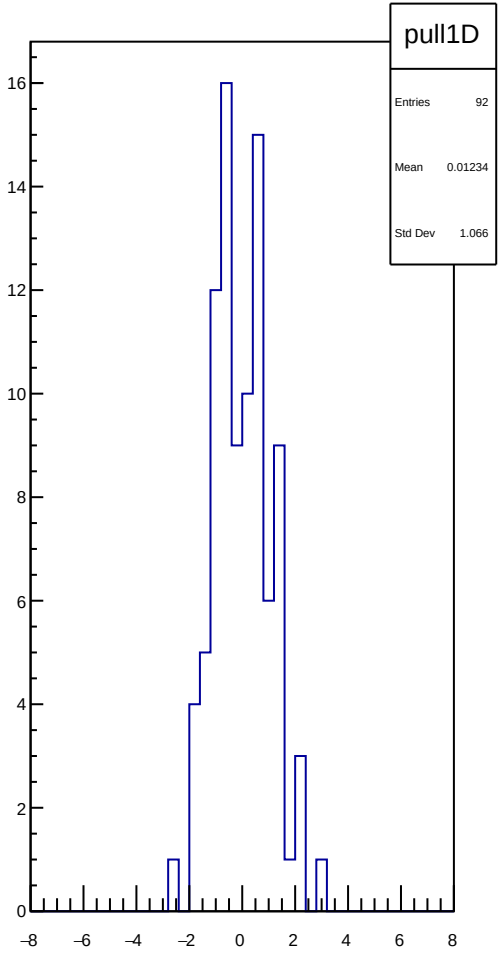

pull1D
Entries 92
Mean −0.01345
Std Dev 0.9086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

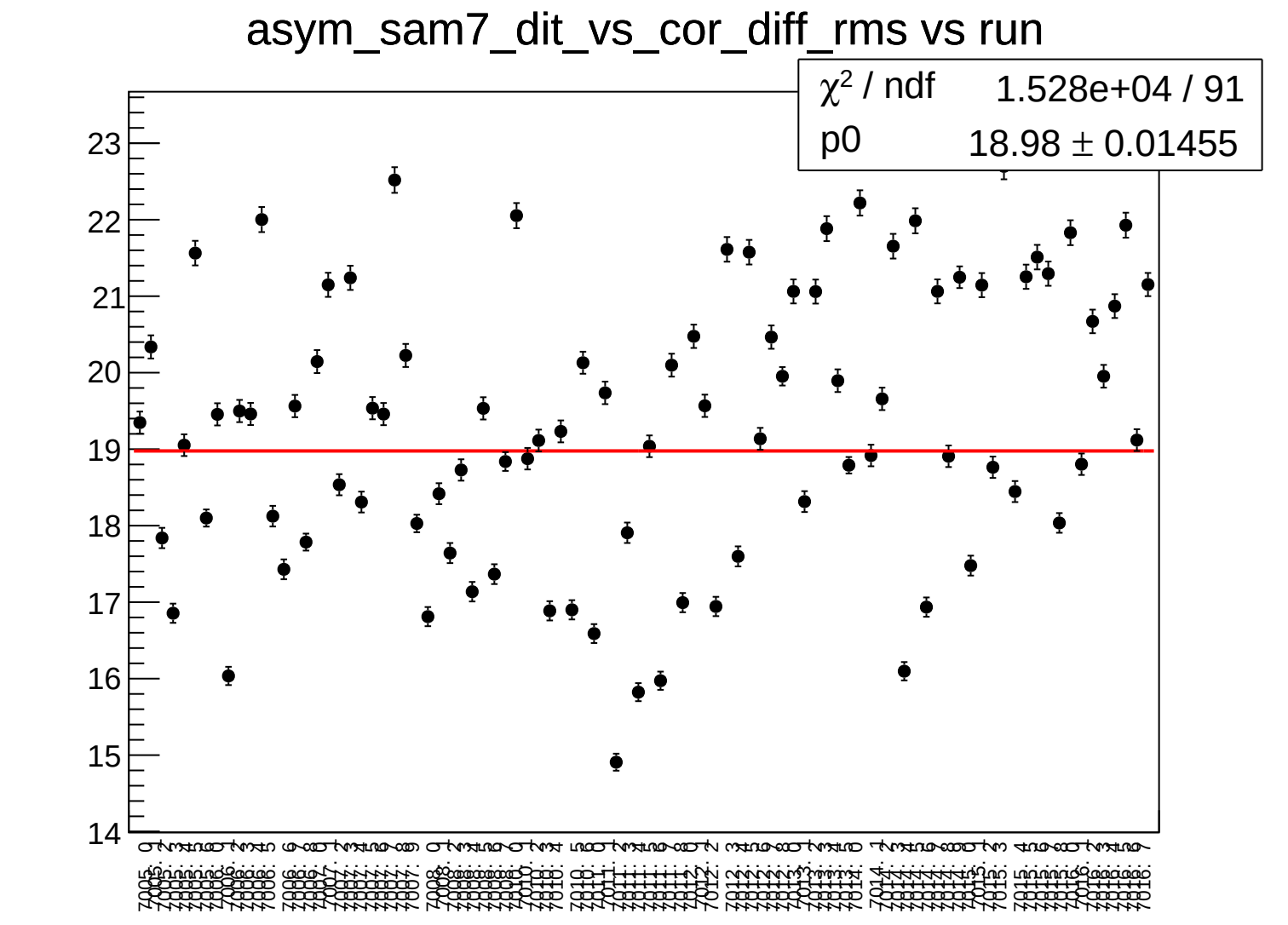

asym_sam7_rms vs run
$\chi^2$ / ndf 4728 / 91
p0 364.3 ± 0.2785
440
420
400
380
360
340
320

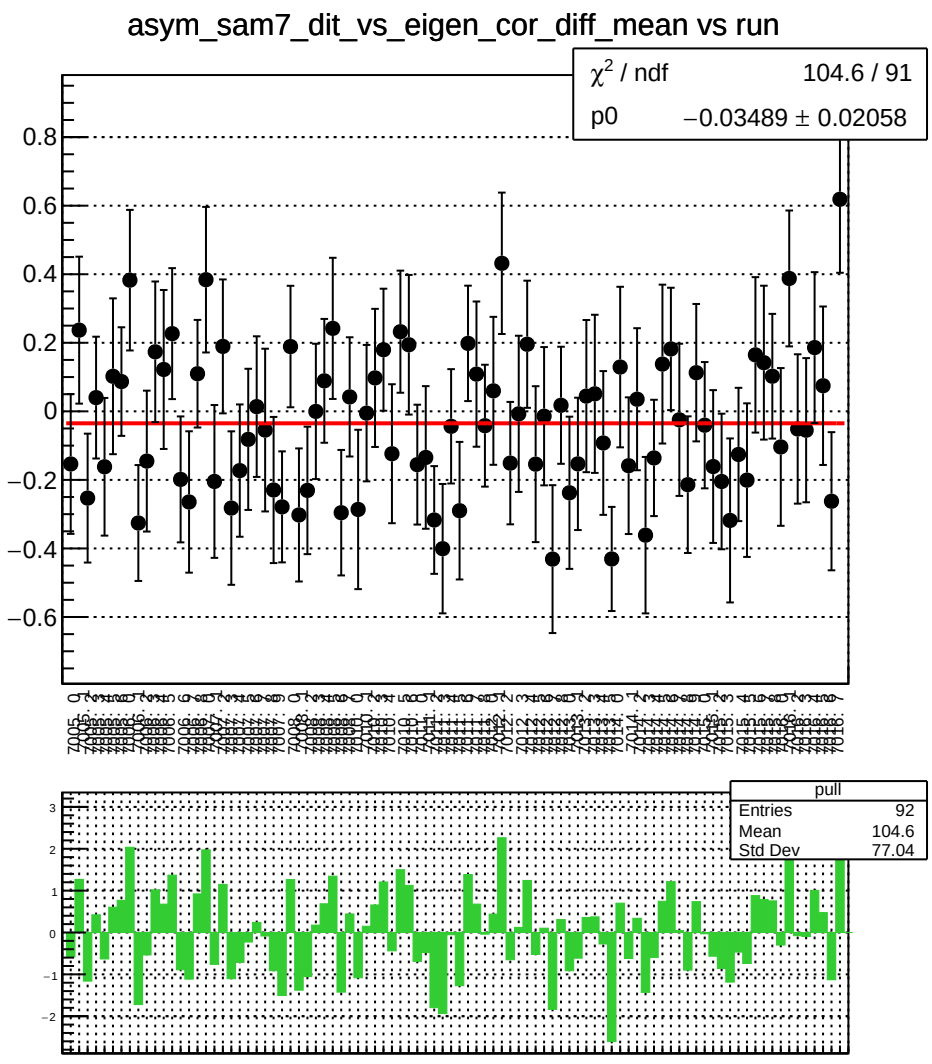

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 89.19 / 91
p0 8.14e−15 ± 2e−14
pull
Entries 92
Mean 24.48
Std Dev 0
pull1D
Entries 92
Mean −0.04461
Std Dev 0.9836

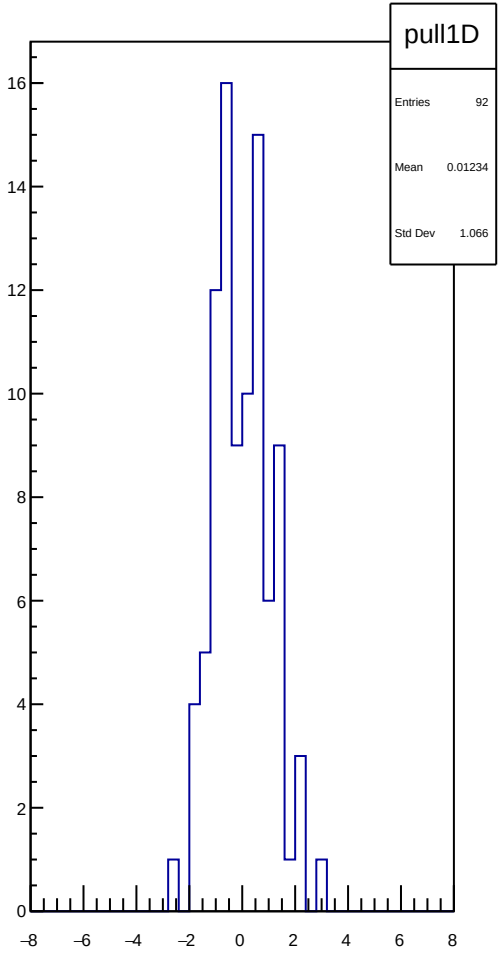

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 91
p0 1.144e−11 ± 1.415e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

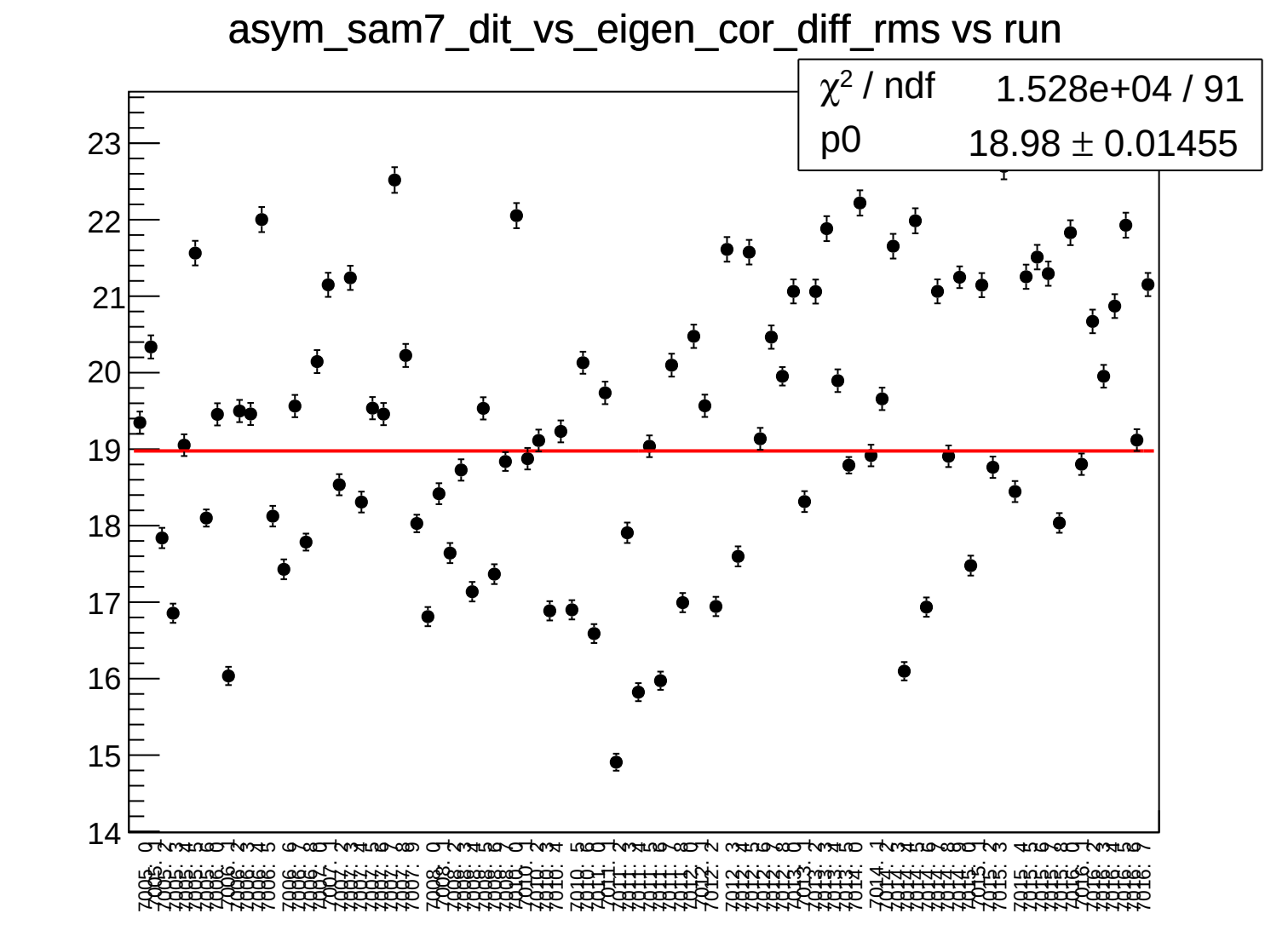

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 91
p0 −0.03489 ± 0.02058
pull
Entries 92
Mean 104.6
Std Dev 77.04

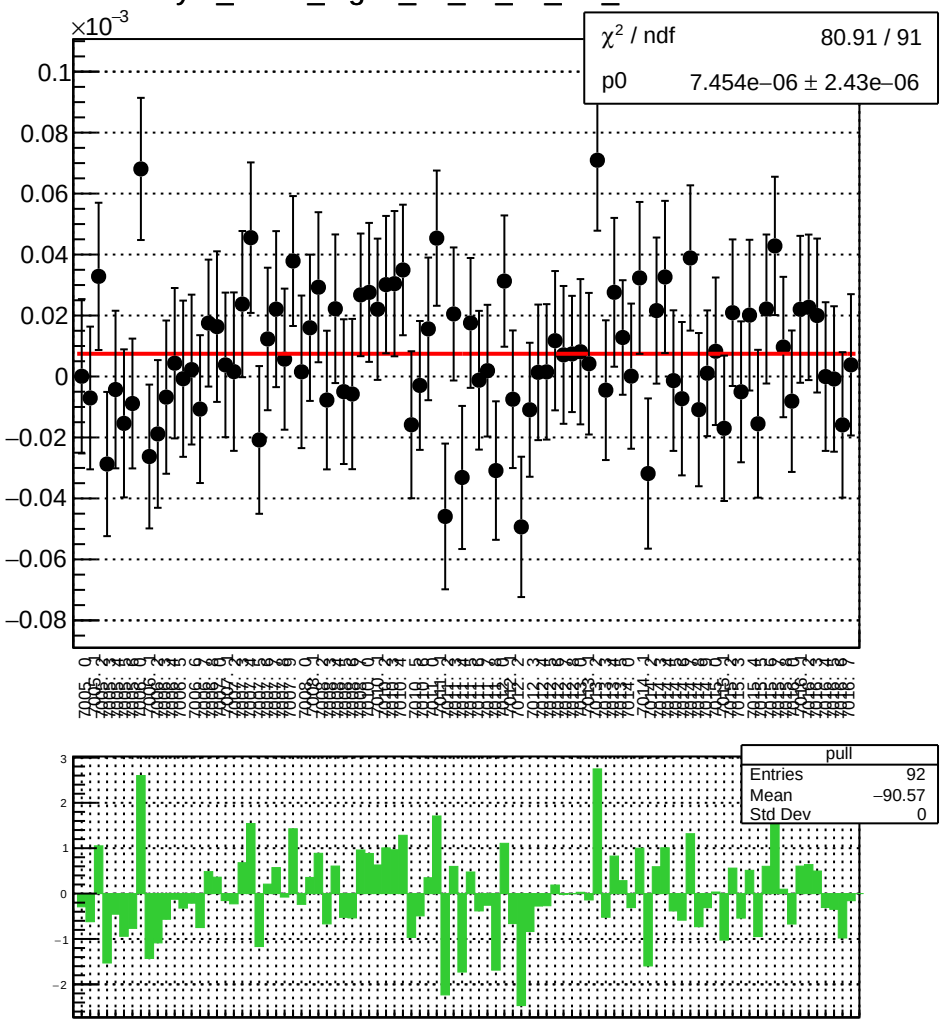

pull1D
Entries 92
Mean 0.01234
Std Dev 1.066

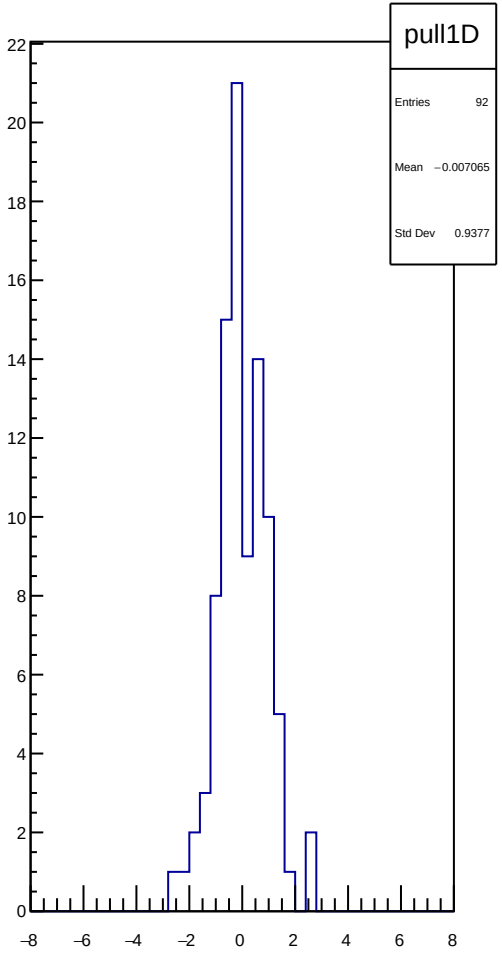

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.528e+04 / 91
p0 18.98 ± 0.01455
23
22
21
20
19
18
17
16
15
14

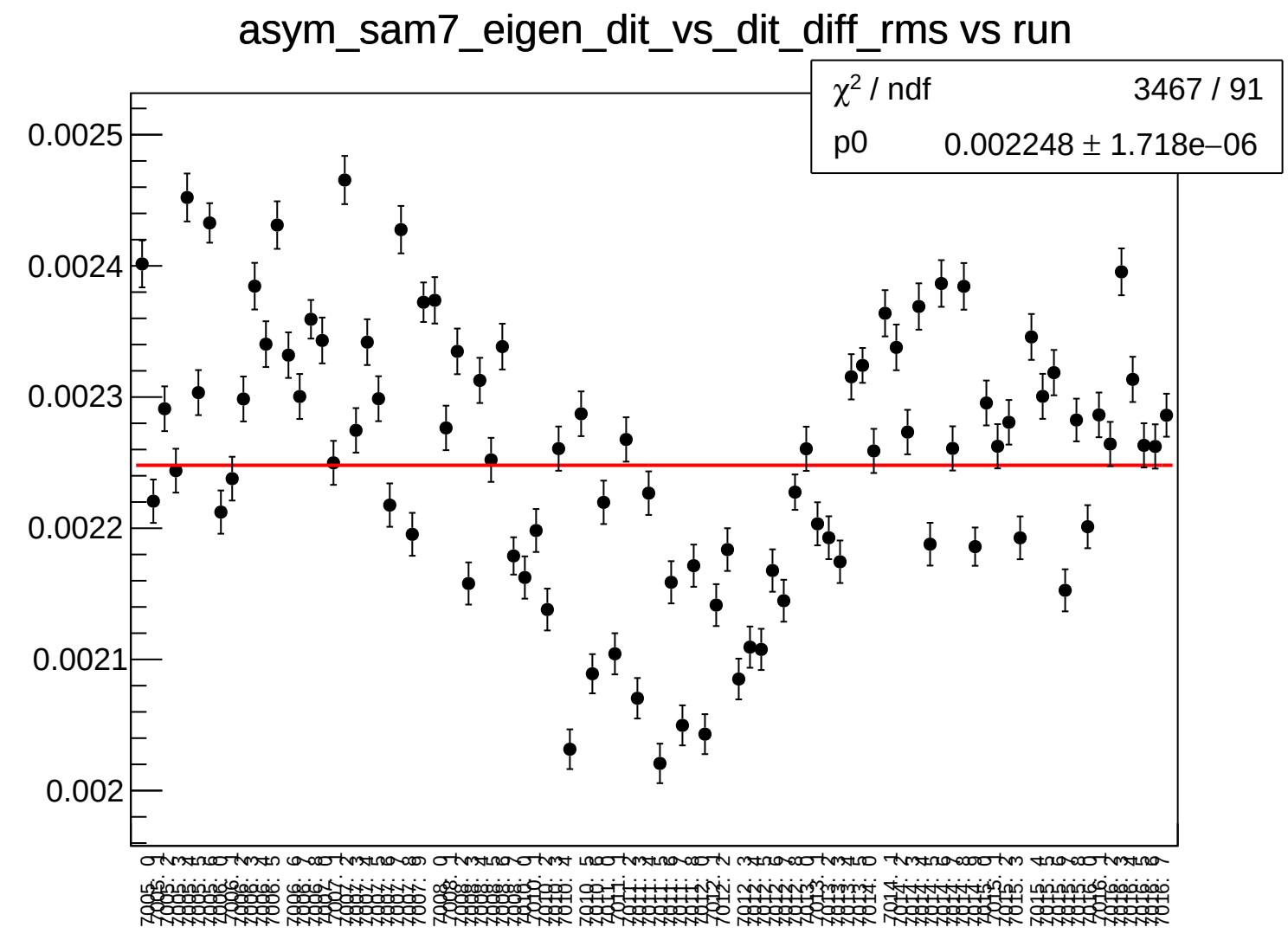

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 91
p0 −0.03489 ± 0.02058
pull
Entries 92
Mean 104.6
Std Dev 77.04

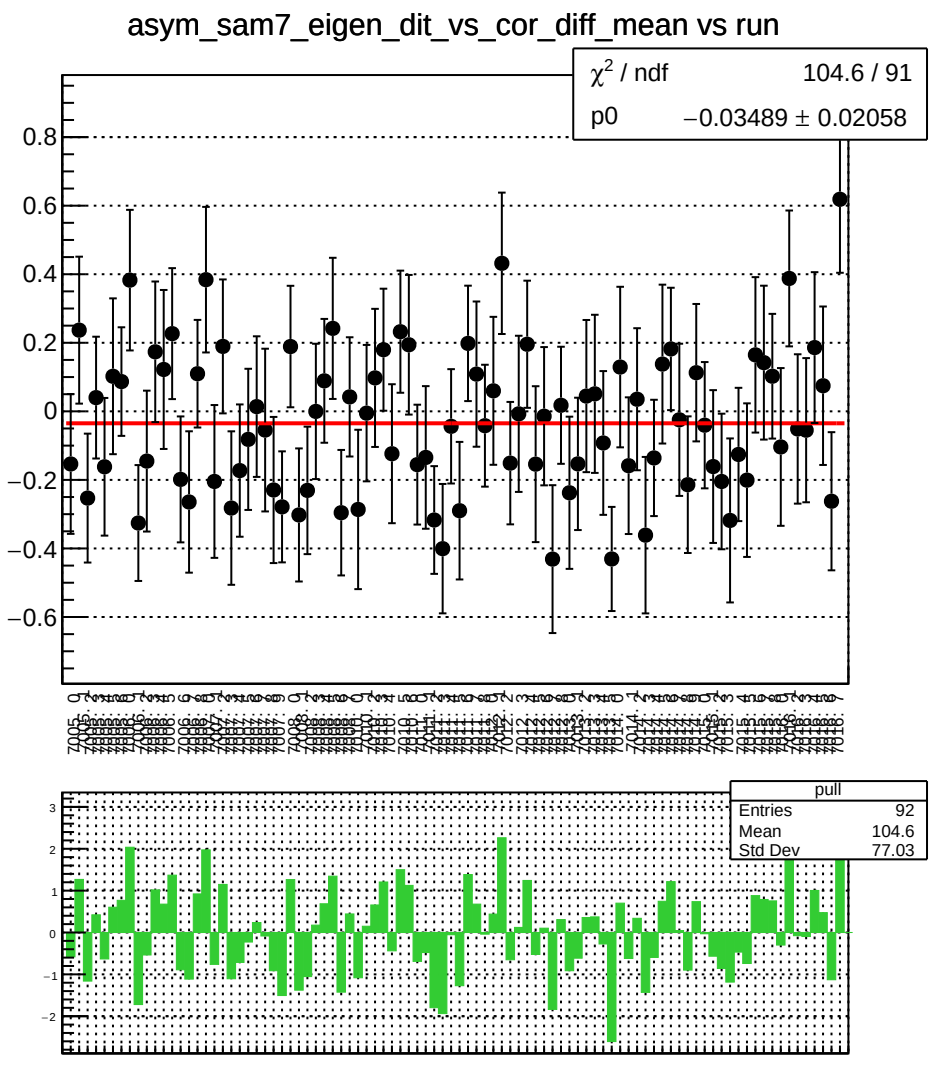

pull1D
Entries 92
Mean 0.01234
Std Dev 1.066

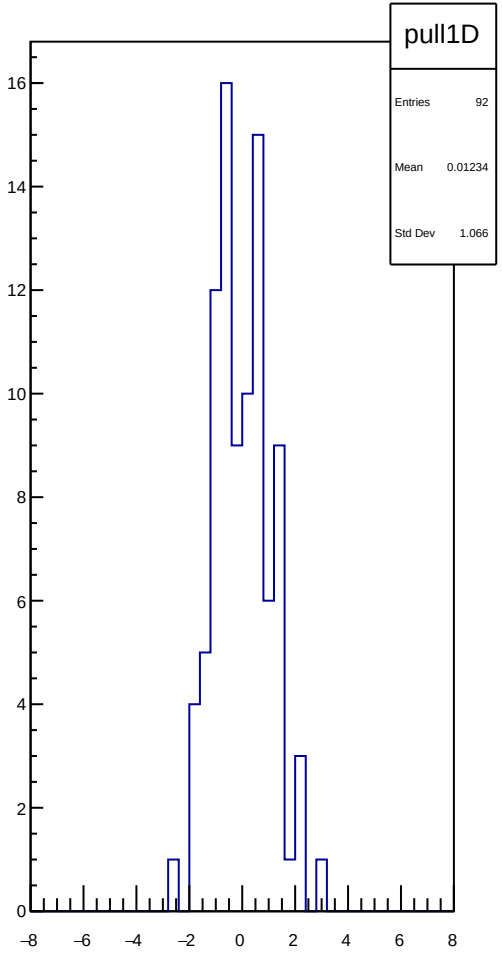

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.528e+04 / 91
p0 18.98 ± 0.01455
23
22
21
20
19
18
17
16
15
14

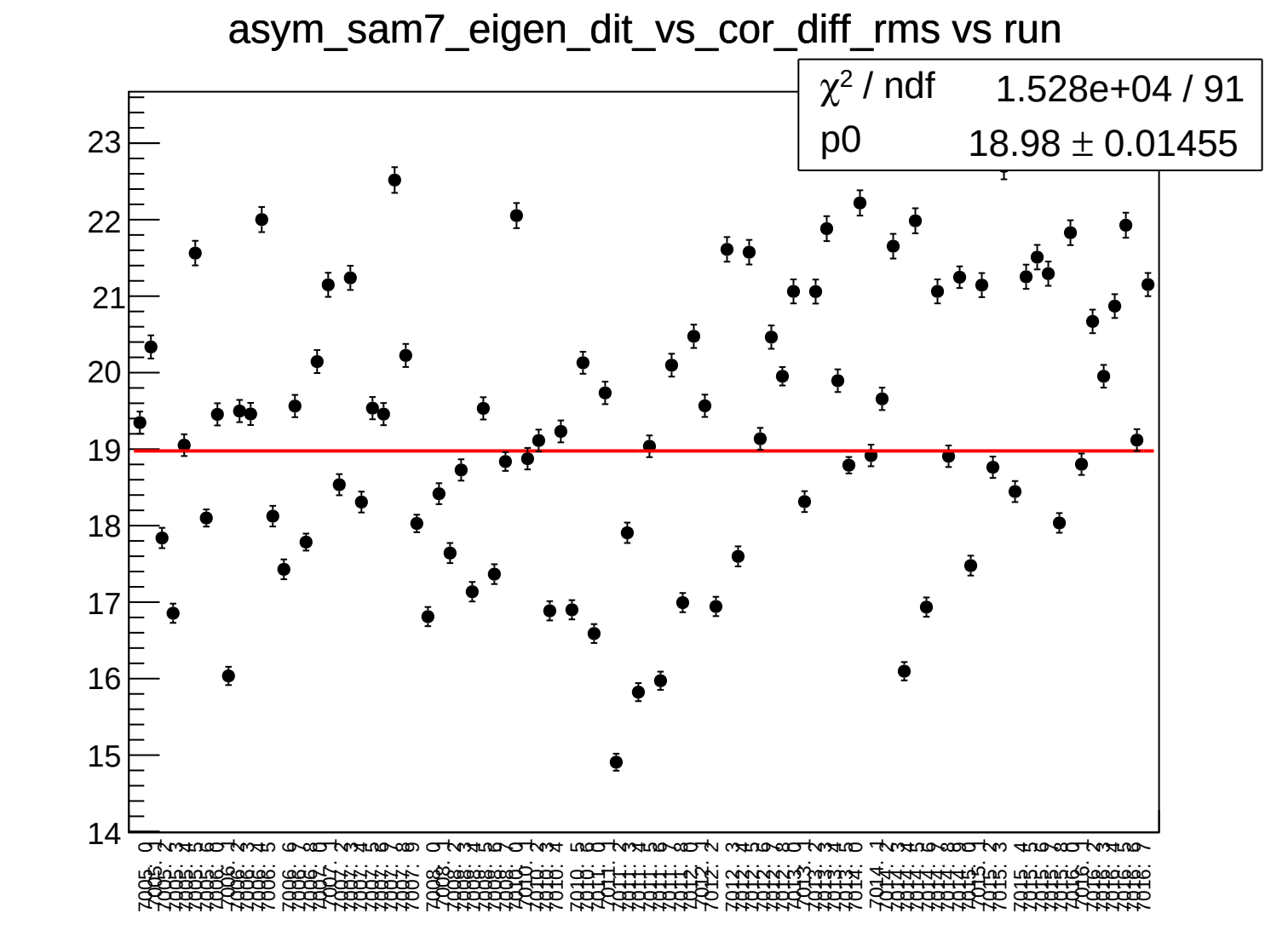

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.91 / 91
p0 7.454e−06 ± 2.43e−06
pull
Entries 92
Mean −90.57
Std Dev 0

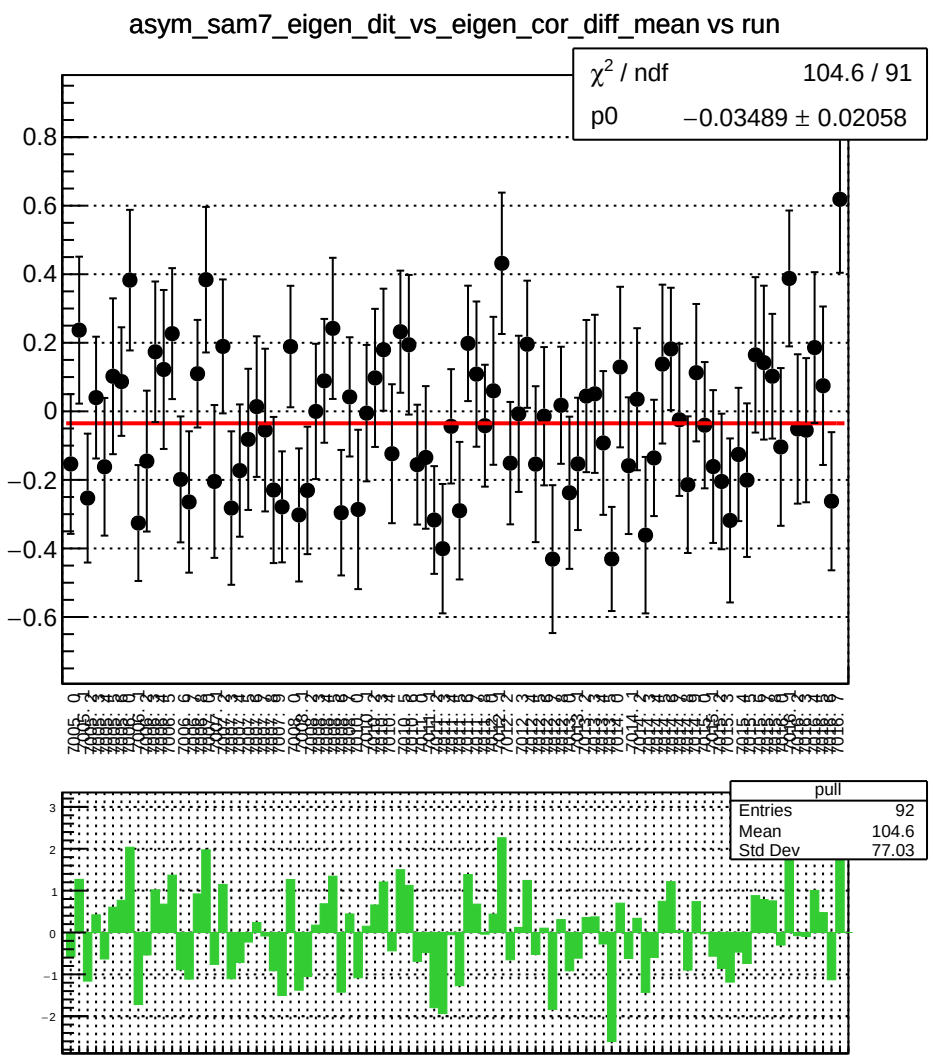

pull1D
Entries 92
Mean −0.007065
Std Dev 0.9377

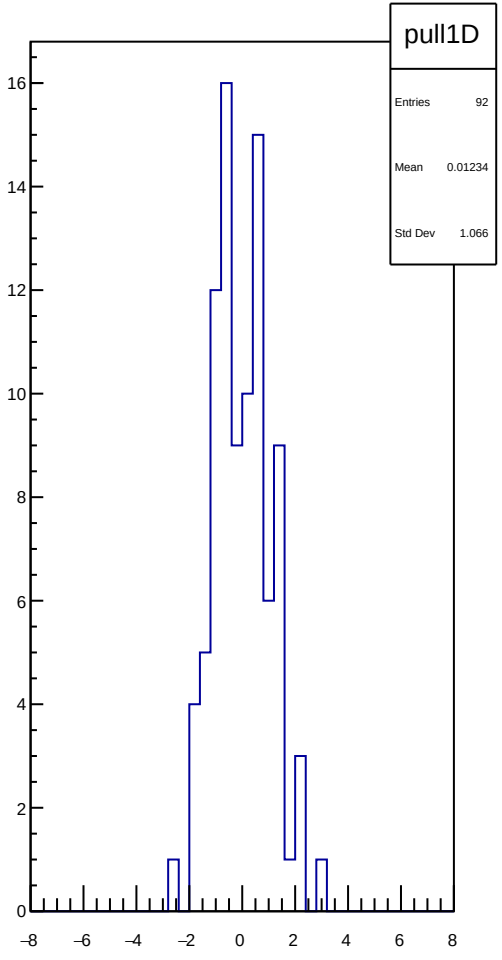

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3467 / 91
p0 0.002248 ± 1.718e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

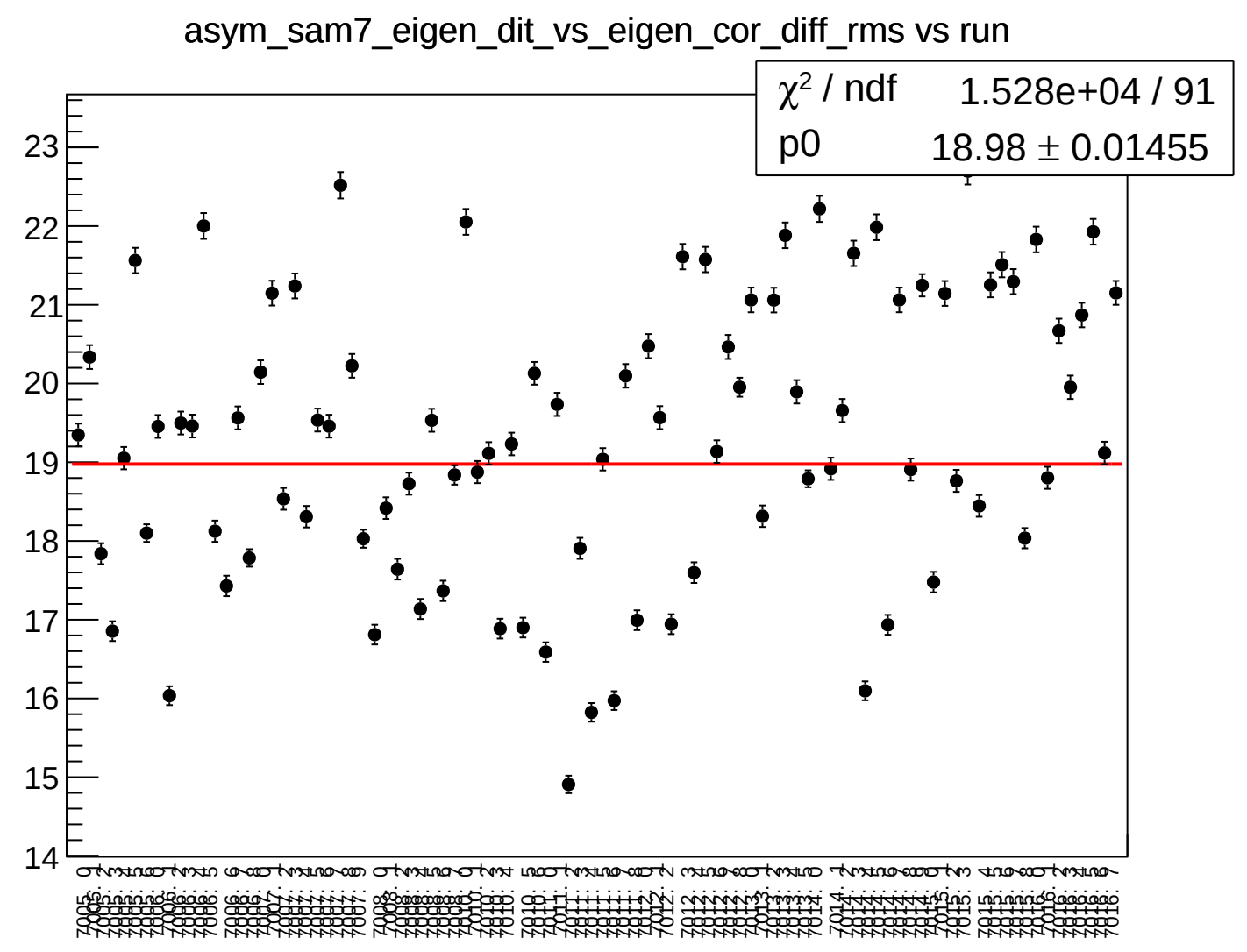

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 91
p0 −0.03489 ± 0.02058
pull
Entries 92
Mean 104.6
Std Dev 77.03

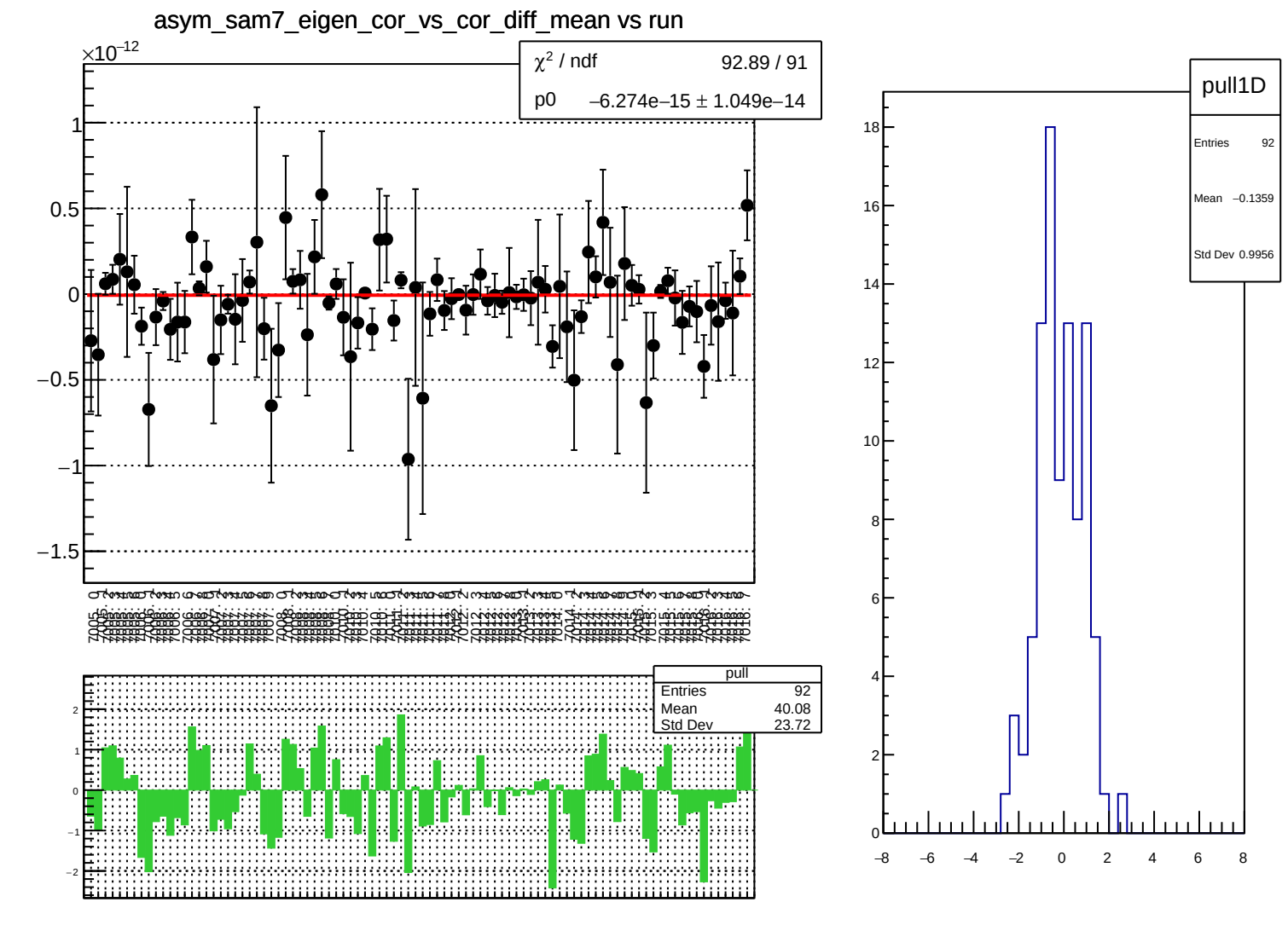

pull1D
Entries 92
Mean 0.01234
Std Dev 1.066

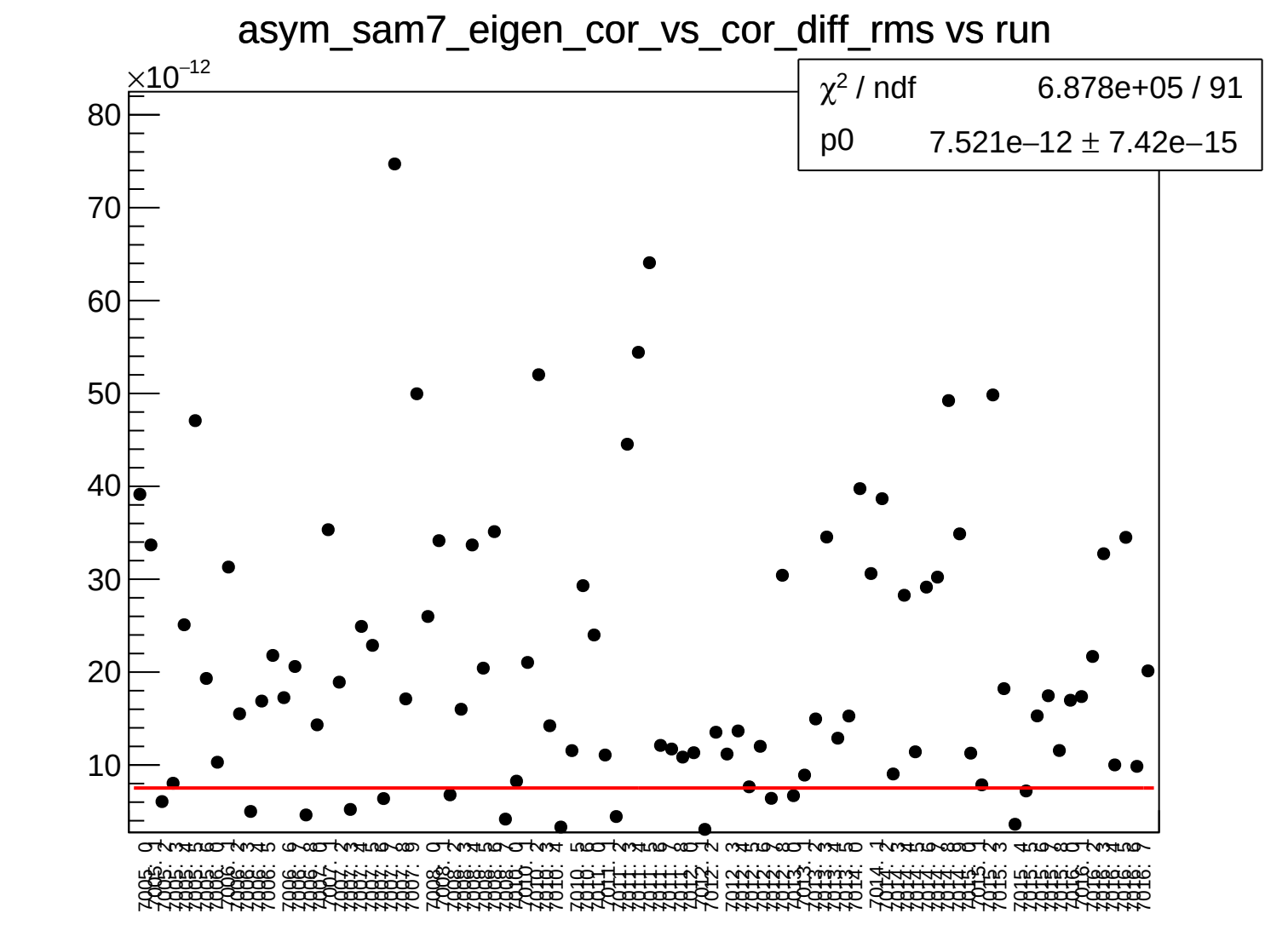

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.528e+04 / 91
p0 18.98 ± 0.01455
23
22
21
20
19
18
17
16
15
14

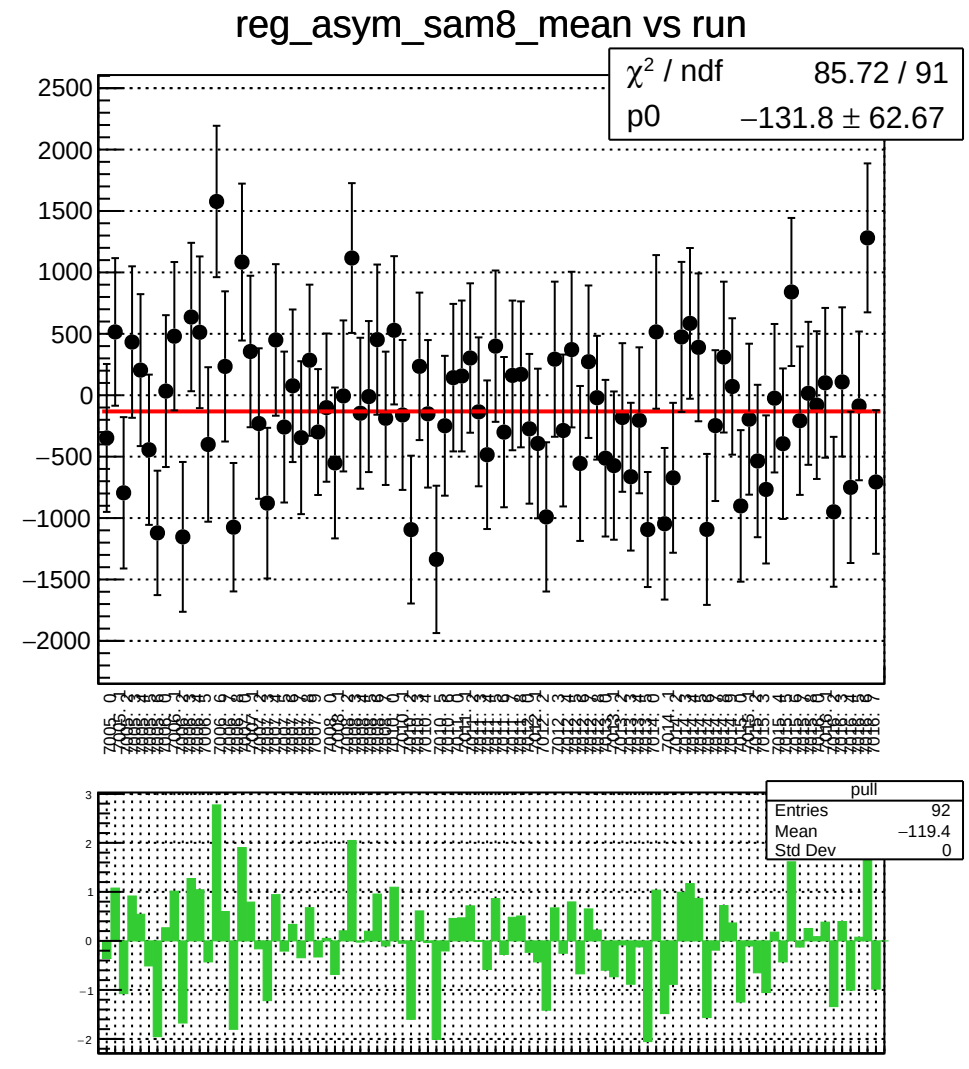

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 91
p0 −0.03489 ± 0.02058
pull
Entries 92
Mean 104.6
Std Dev 77.03

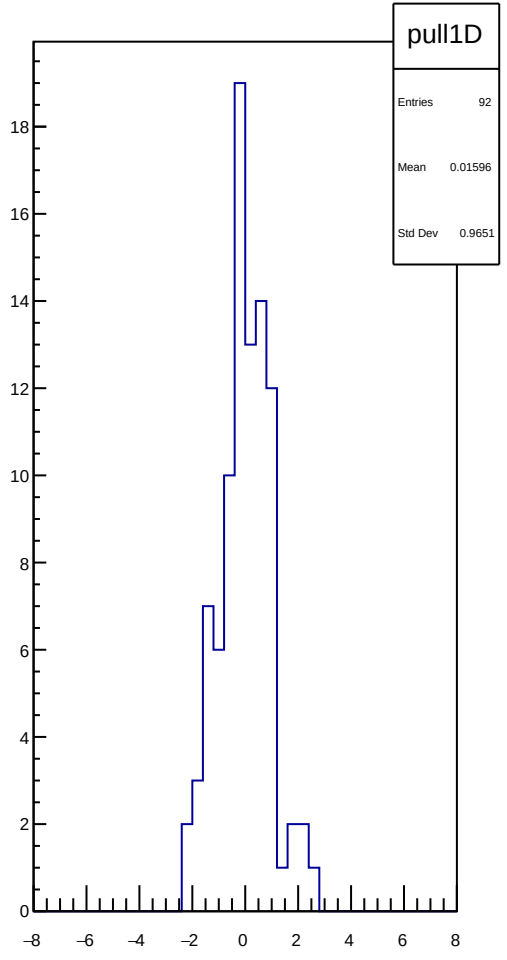

pull1D
Entries 92
Mean 0.01234
Std Dev 1.066

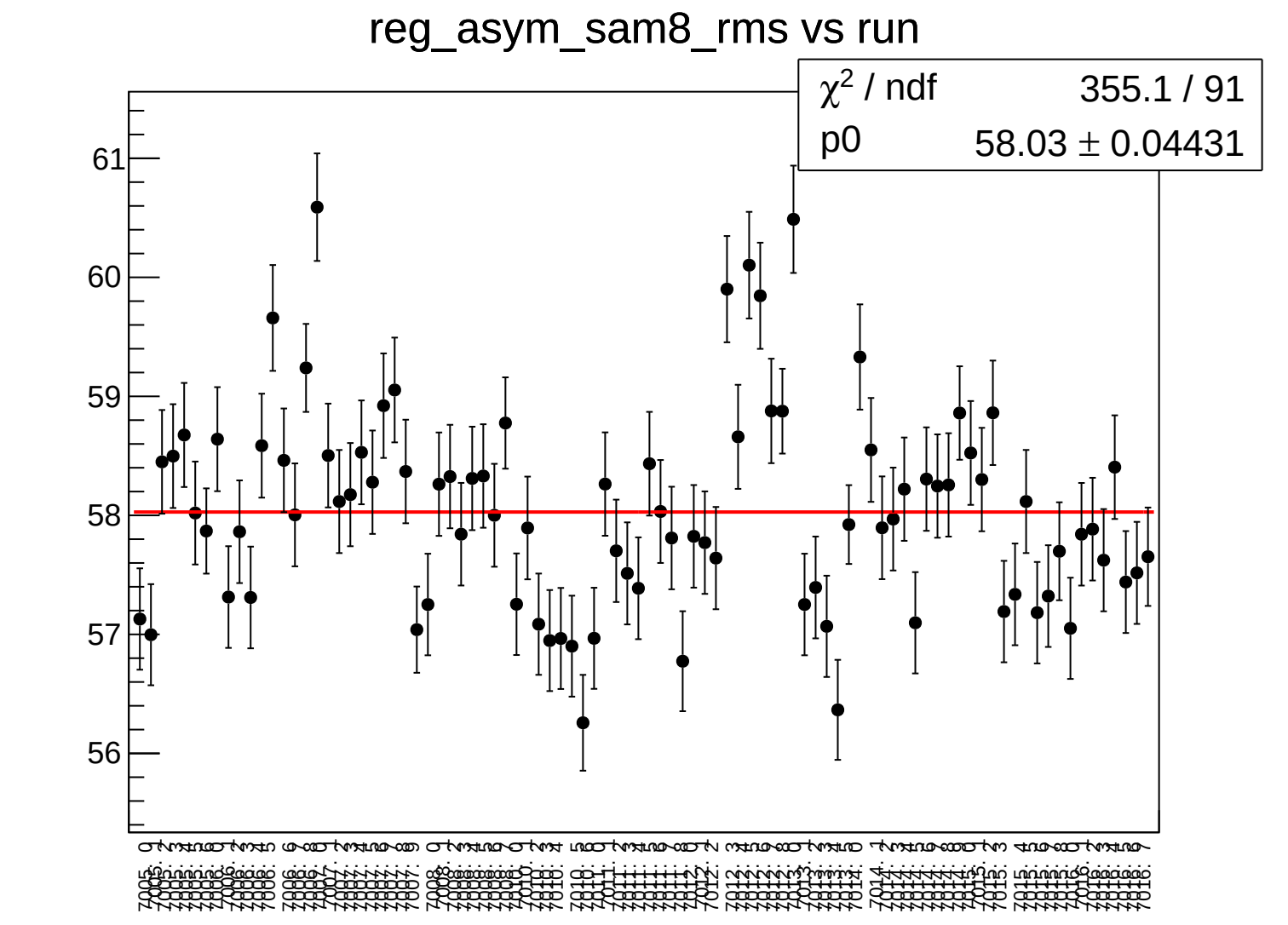

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.528e+04 / 91
p0 18.98 ± 0.01455
23
22
21
20
19
18
17
16
15
14

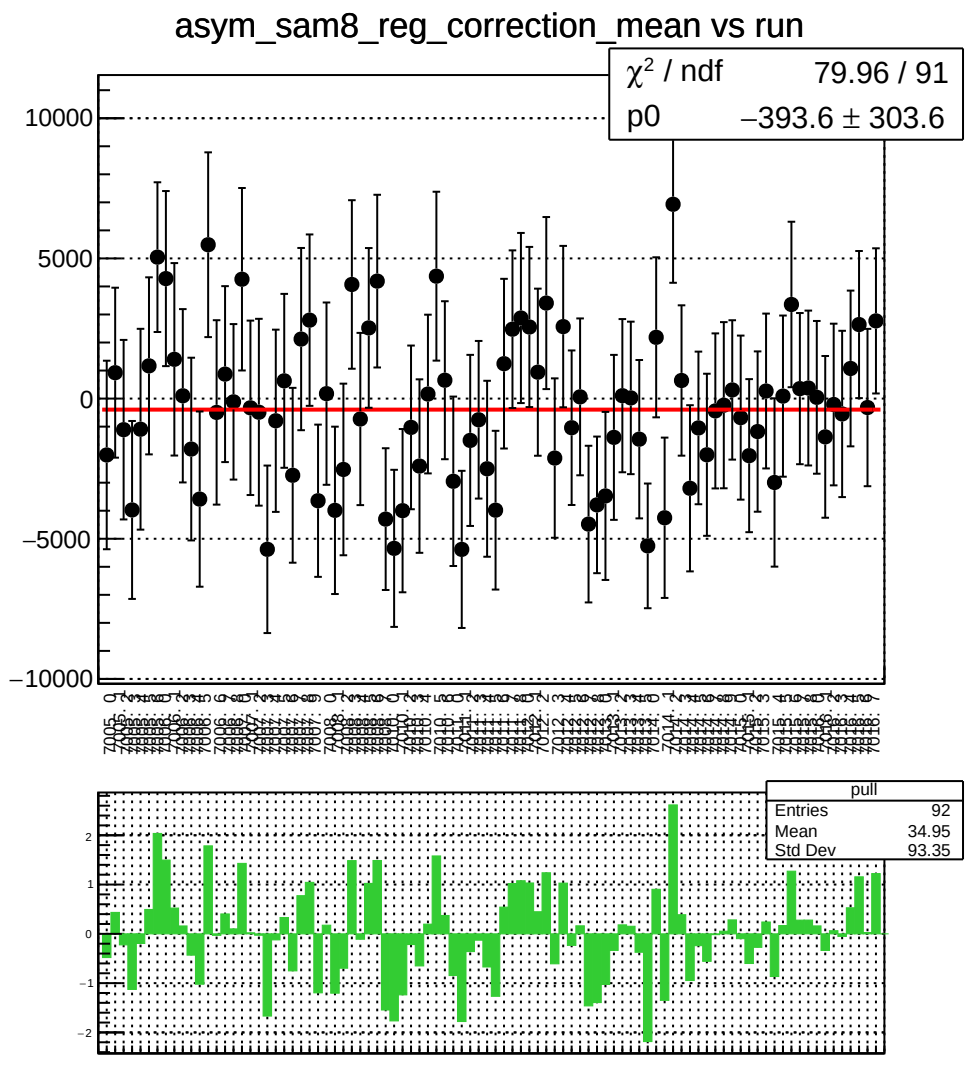

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.89 / 91
p0 −6.274e−15 ± 1.049e−14
pull
Entries 92
Mean 40.08
Std Dev 23.72
pull1D
Entries 92
Mean −0.1359
Std Dev 0.9956

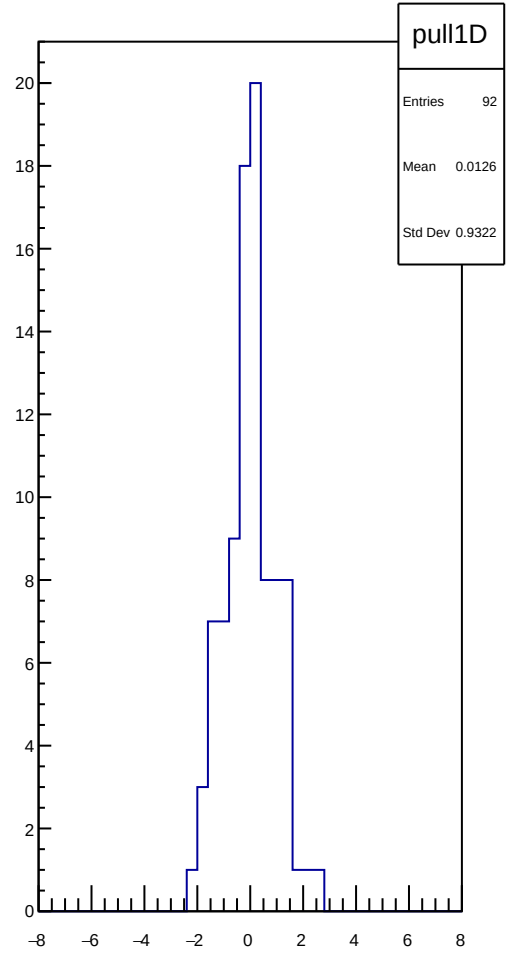

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 6.878e+05 / 91
p0 7.521e−12 ± 7.42e−15

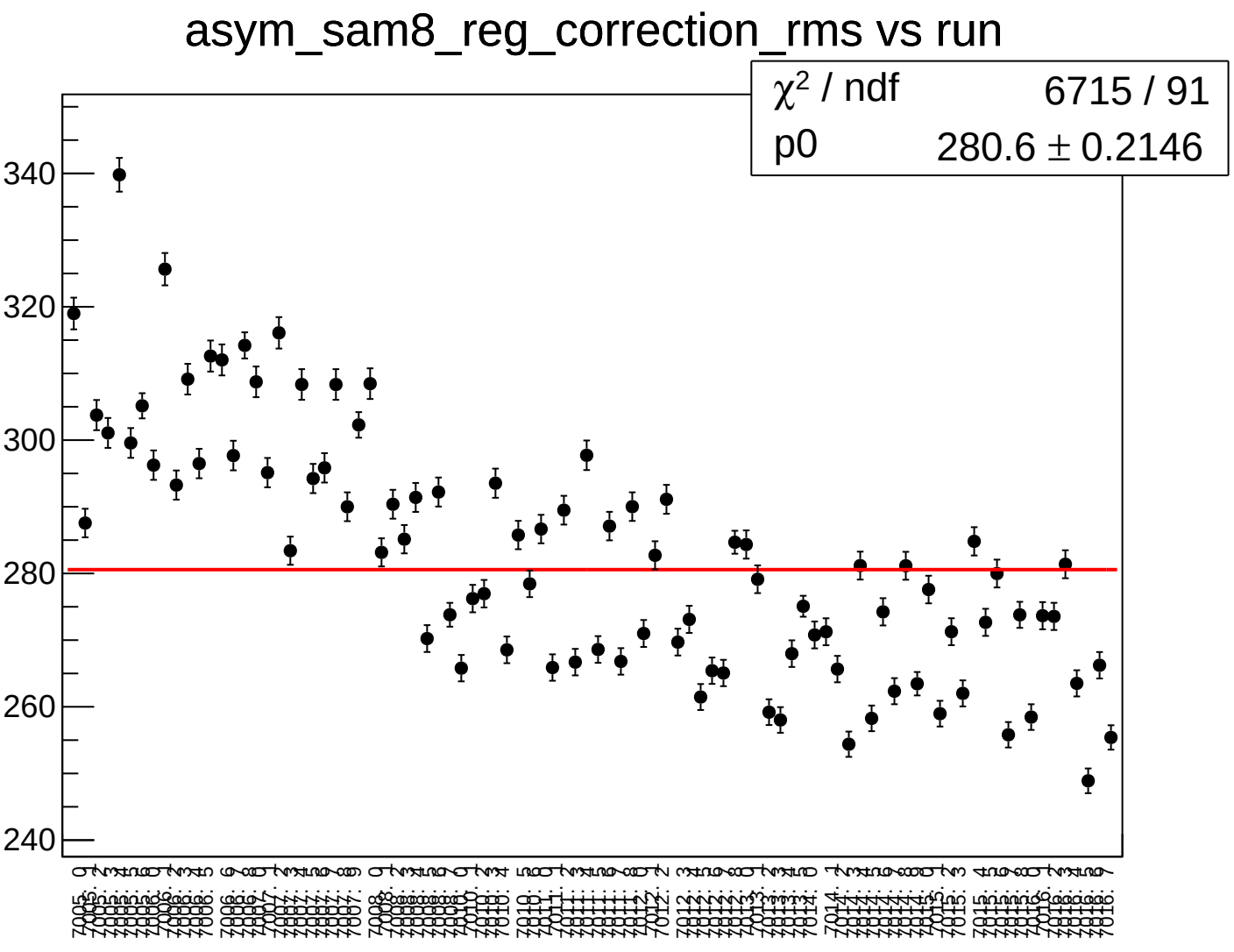

reg_asym_sam8_mean vs run
χ² / ndf 85.72 / 91
p0 −131.8 ± 62.67
pull
Entries 92
Mean −119.4
Std Dev 0

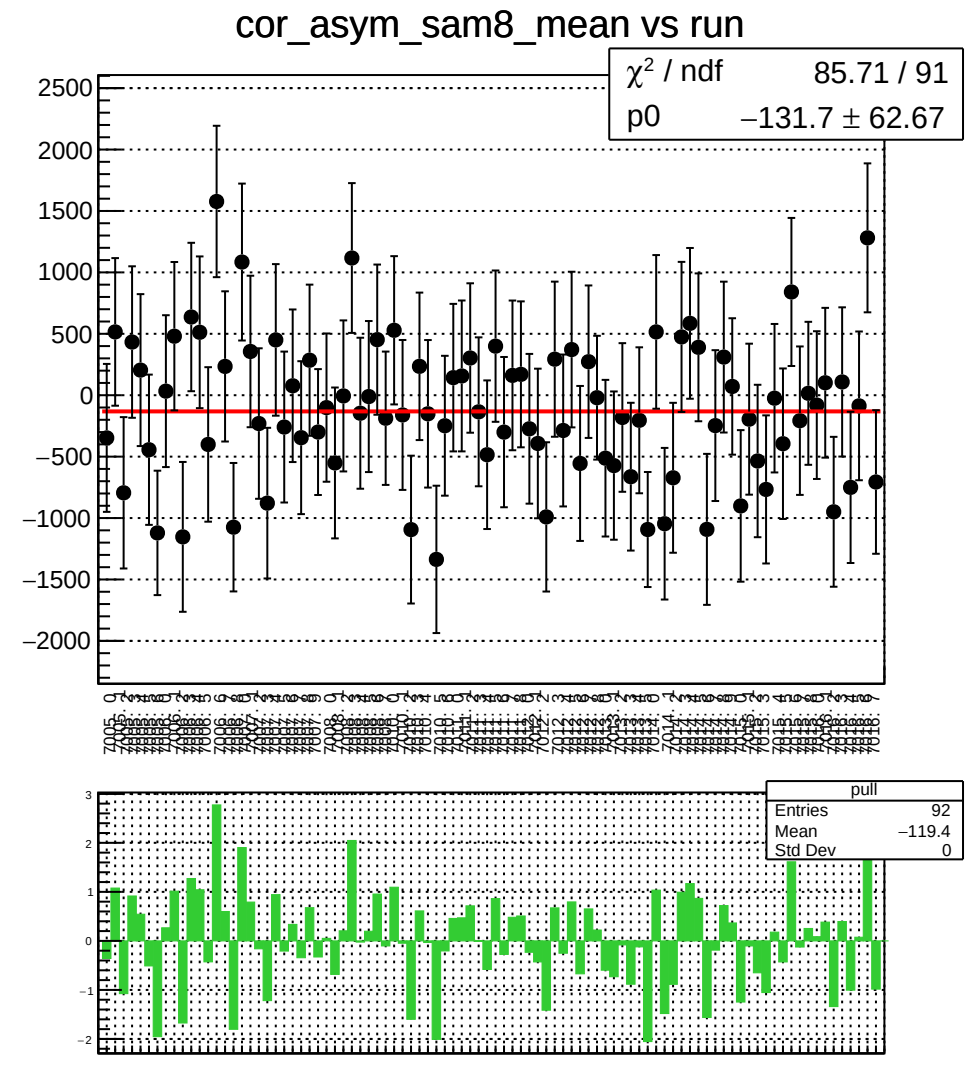

pull1D
Entries 92
Mean 0.01596
Std Dev 0.9651

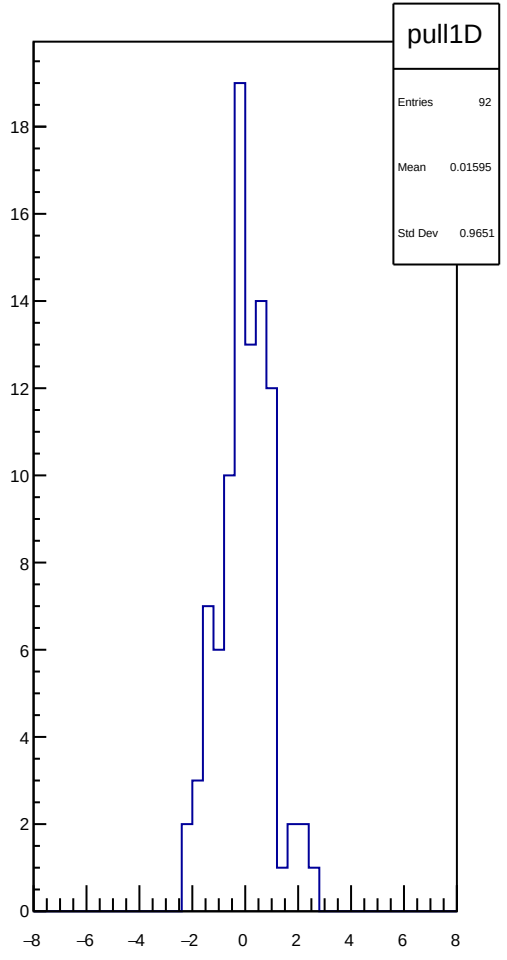

reg_asym_sam8_rms vs run
$\chi^2$ / ndf 355.1 / 91
p0 58.03 ± 0.04431
61
60
59
58
57
56

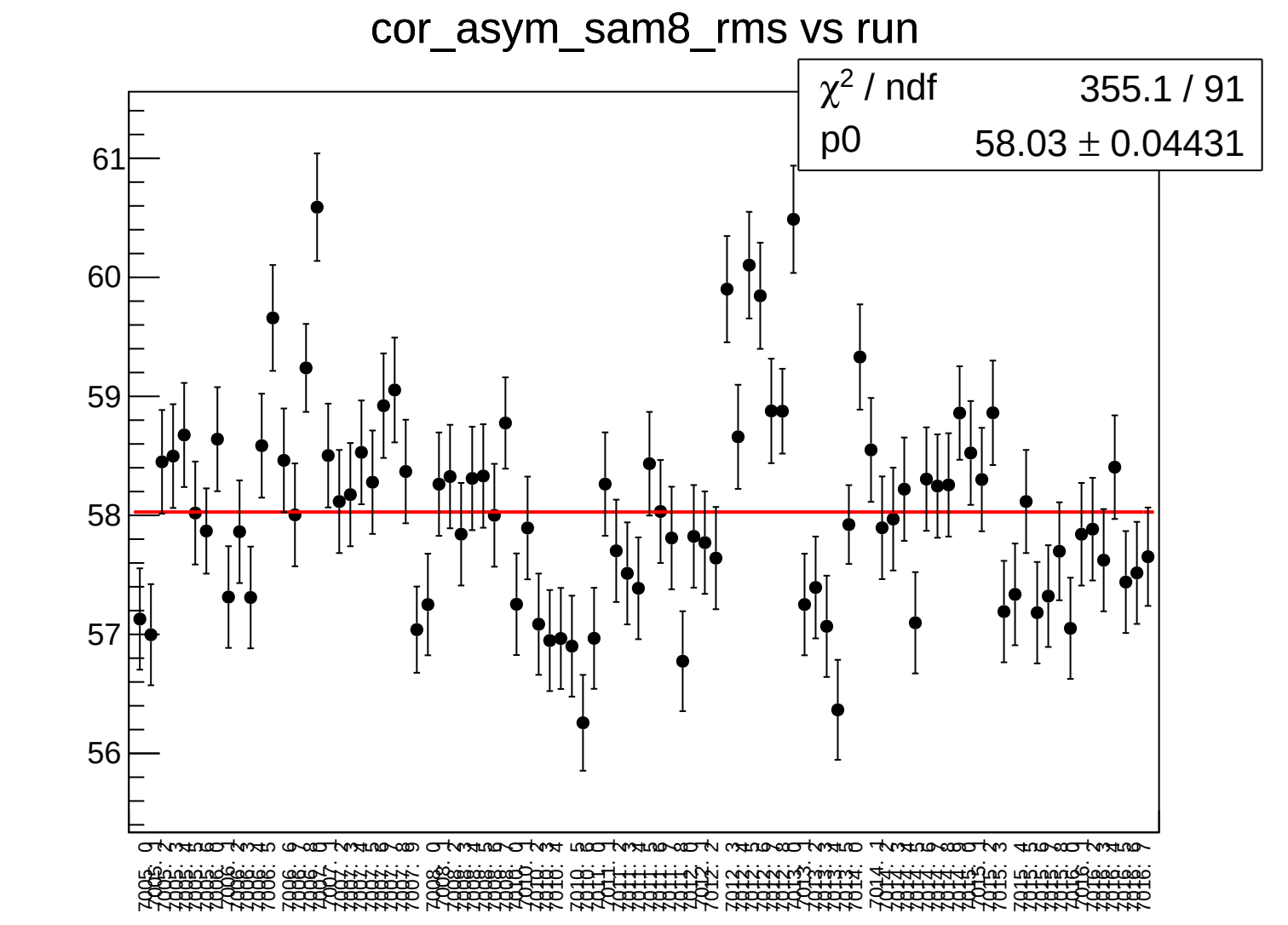

asym_sam8_reg_correction_mean vs run
χ² / ndf 79.96 / 91
p0 −393.6 ± 303.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 34.95
Std Dev 93.35
2
1
0
−1
−2

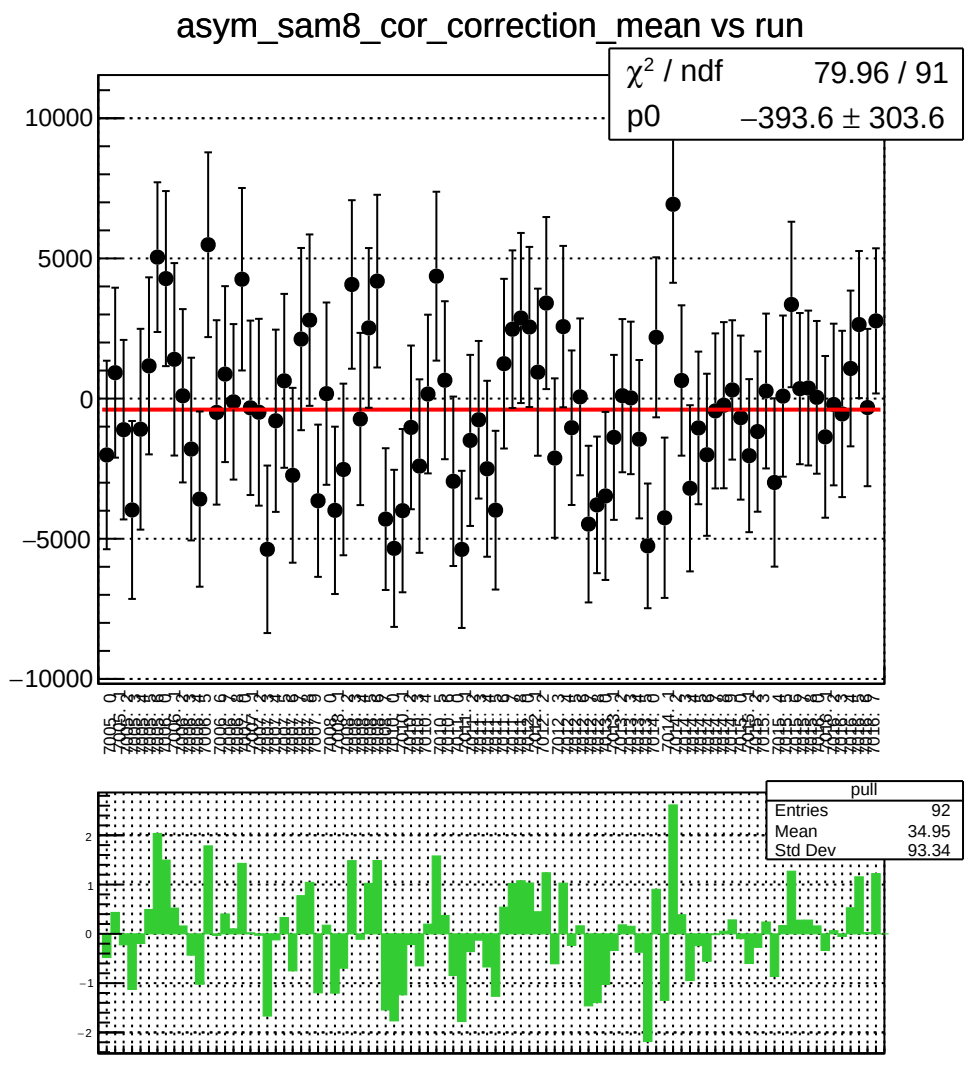

pull1D
Entries 92
Mean 0.0126
Std Dev 0.9322
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

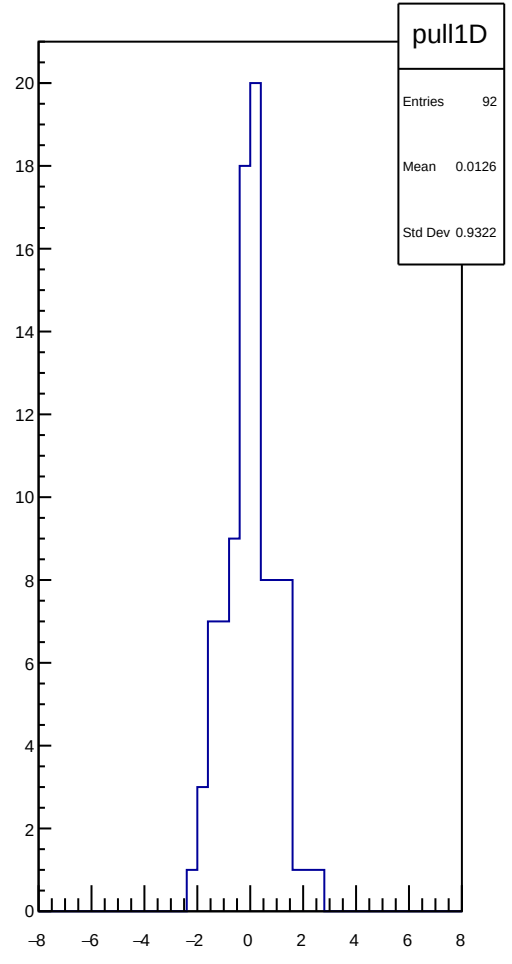

asym_sam8_reg_correction_rms vs run
χ² / ndf 6715 / 91
p0 280.6 ± 0.2146
340
320
300
280
260
240

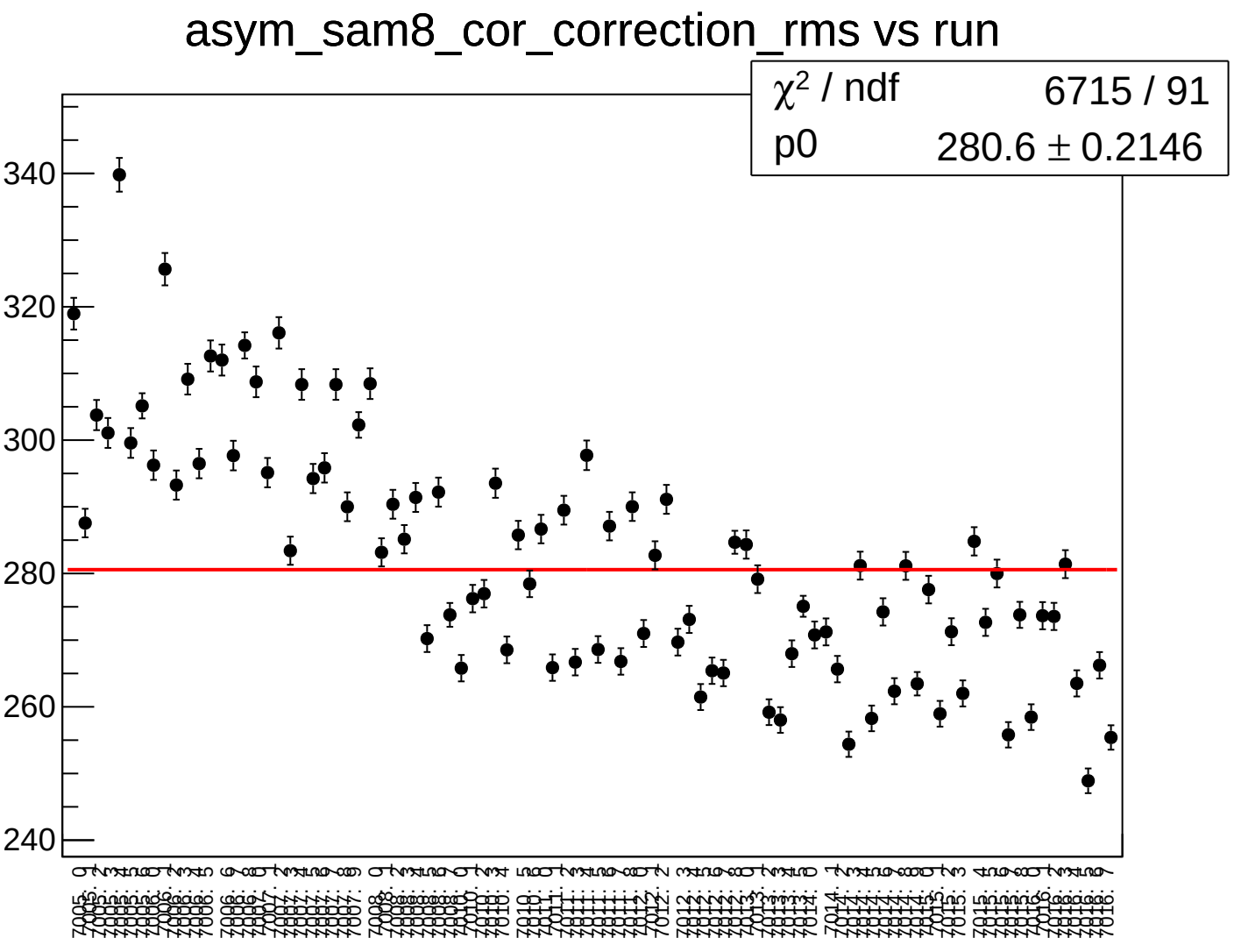

cor_asym_sam8_mean vs run
χ² / ndf 85.71 / 91
p0 −131.7 ± 62.67
pull
Entries 92
Mean −119.4
Std Dev 0

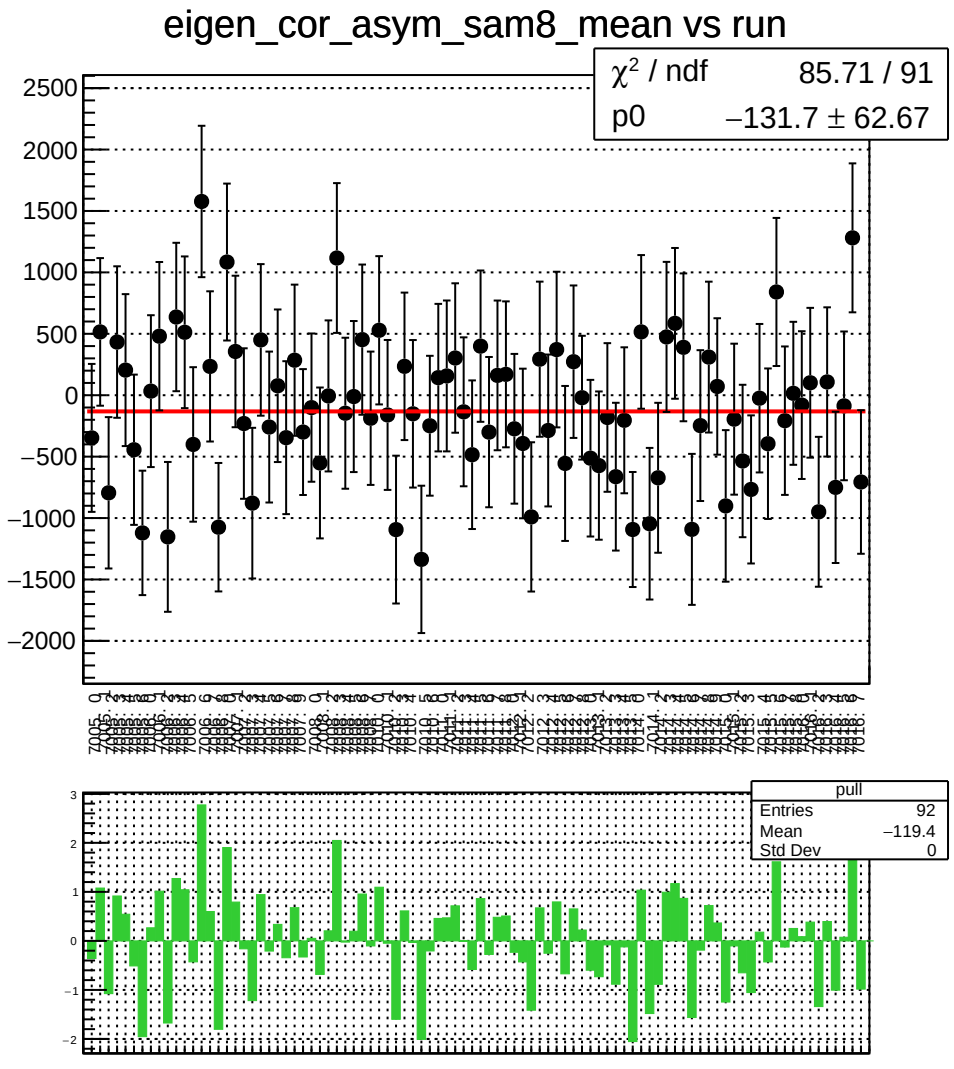

pull1D
Entries 92
Mean 0.01595
Std Dev 0.9651

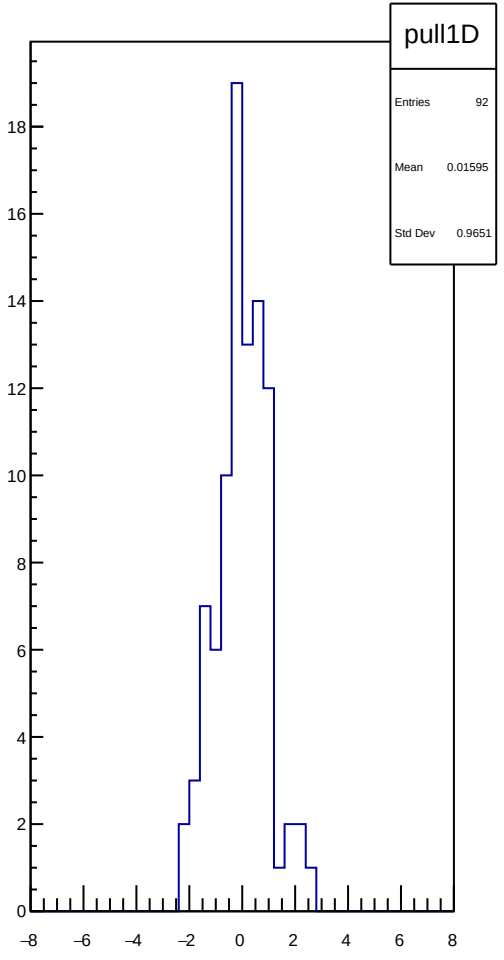

cor_asym_sam8_rms vs run
χ² / ndf 355.1 / 91
p0 58.03 ± 0.04431
61
60
59
58
57
56

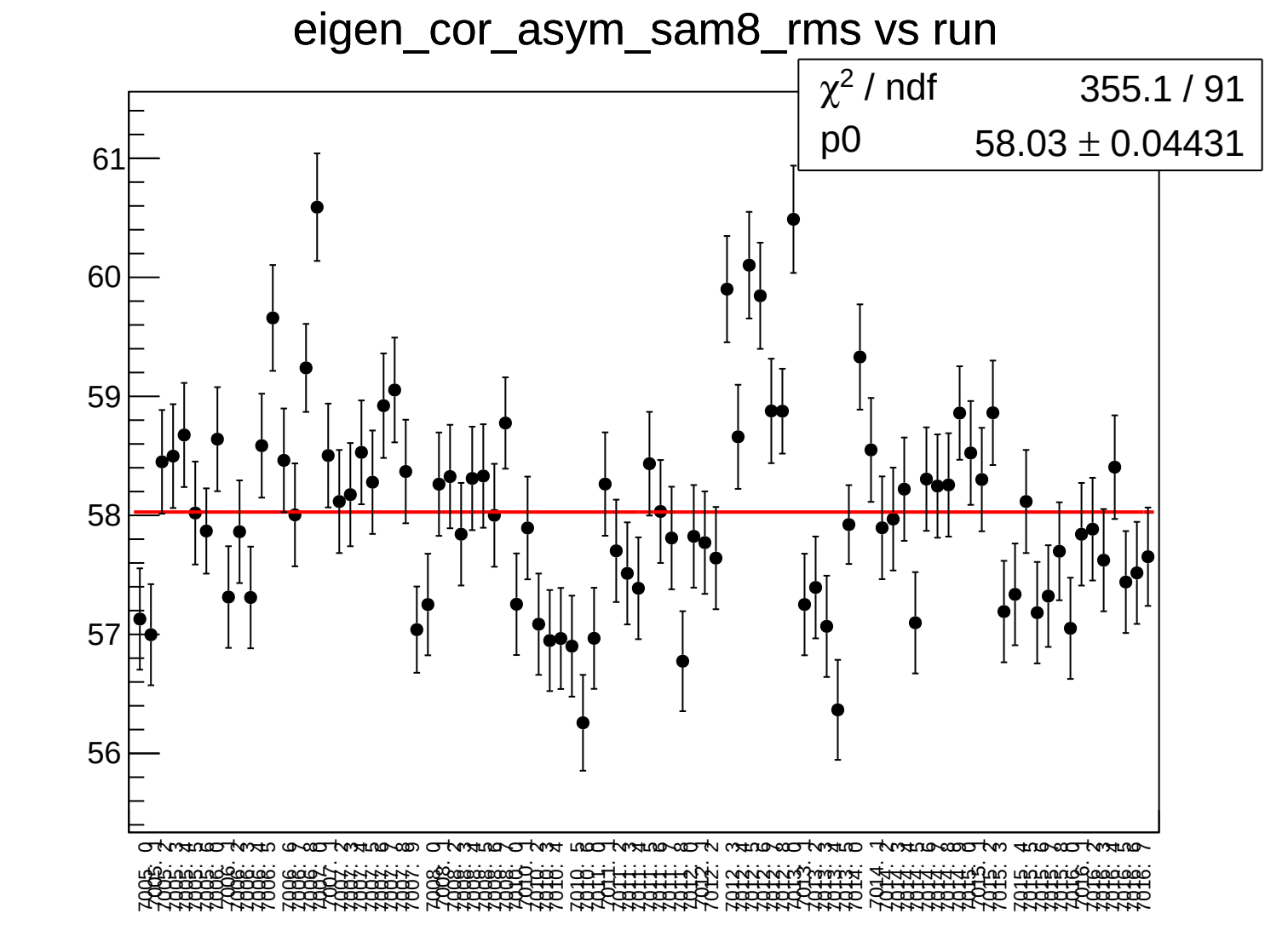

asym_sam8_cor_correction_mean vs run
χ² / ndf 79.96 / 91
p0 −393.6 ± 303.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 34.95
Std Dev 93.34
2
1
0
−1
−2

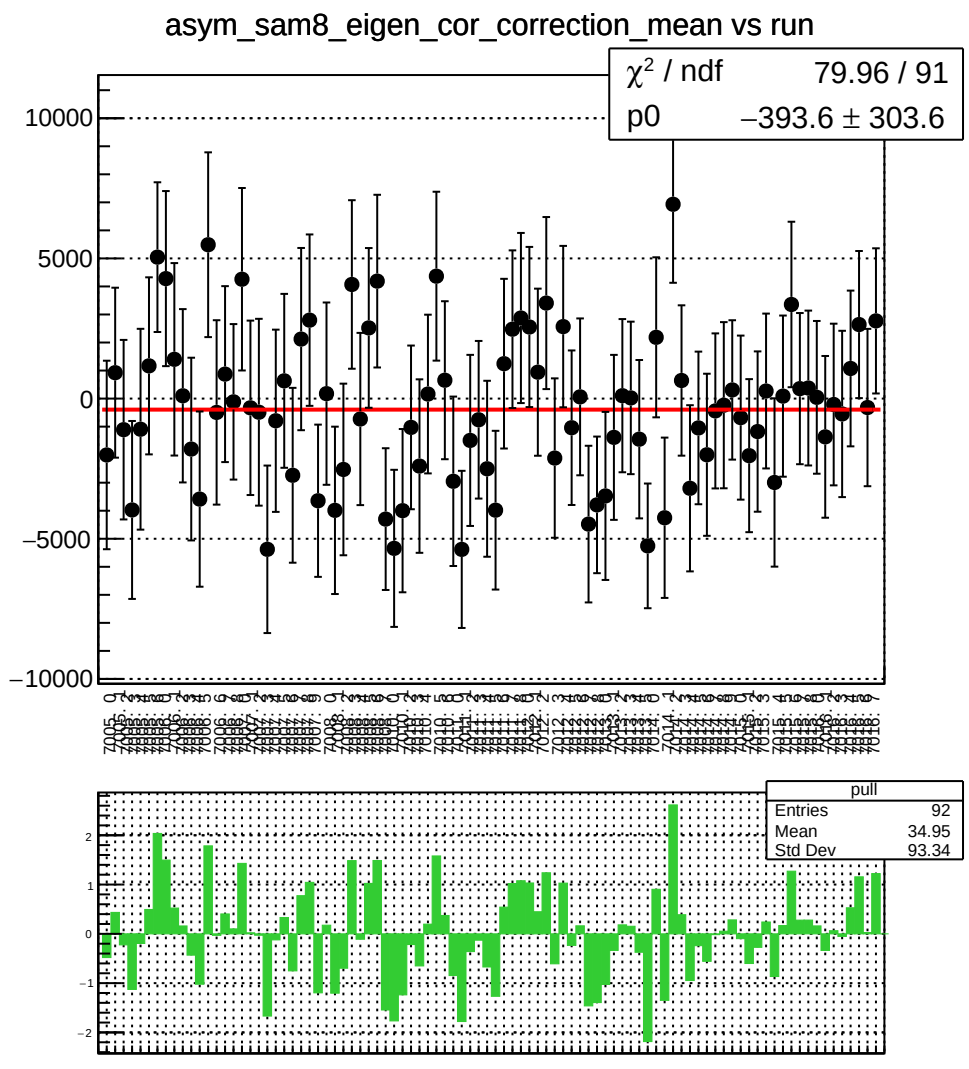

pull1D
Entries 92
Mean 0.0126
Std Dev 0.9322
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

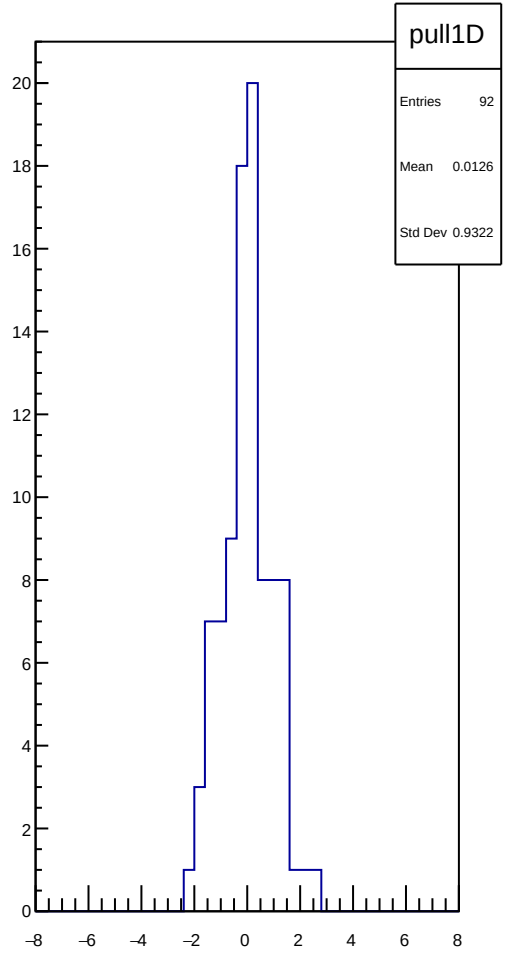

asym_sam8_cor_correction_rms vs run
χ² / ndf 6715 / 91
p0 280.6 ± 0.2146
340
320
300
280
260
240

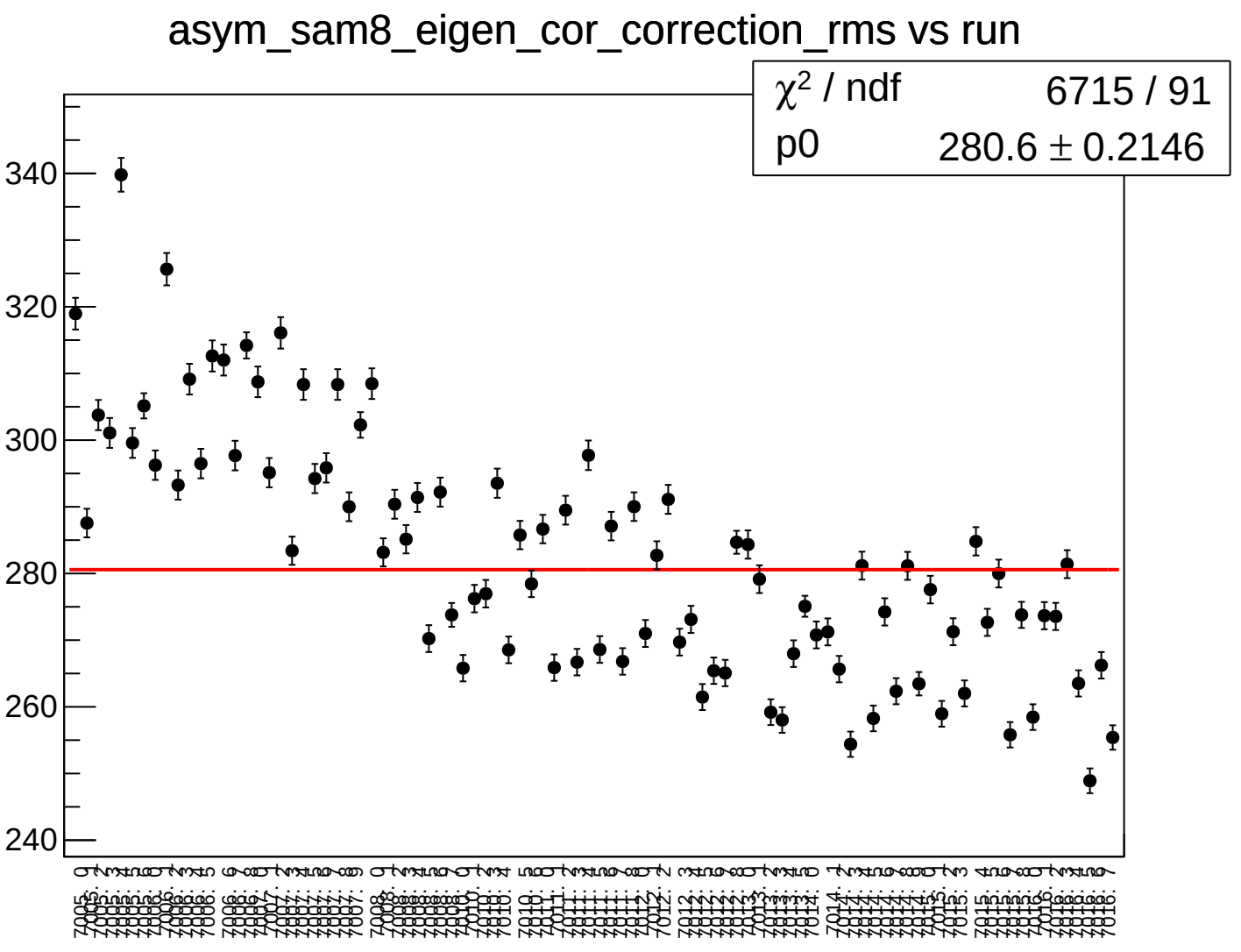

eigen_cor_asym_sam8_mean vs run
χ² / ndf 85.71 / 91
p0 −131.7 ± 62.67
pull
Entries 92
Mean −119.4
Std Dev 0

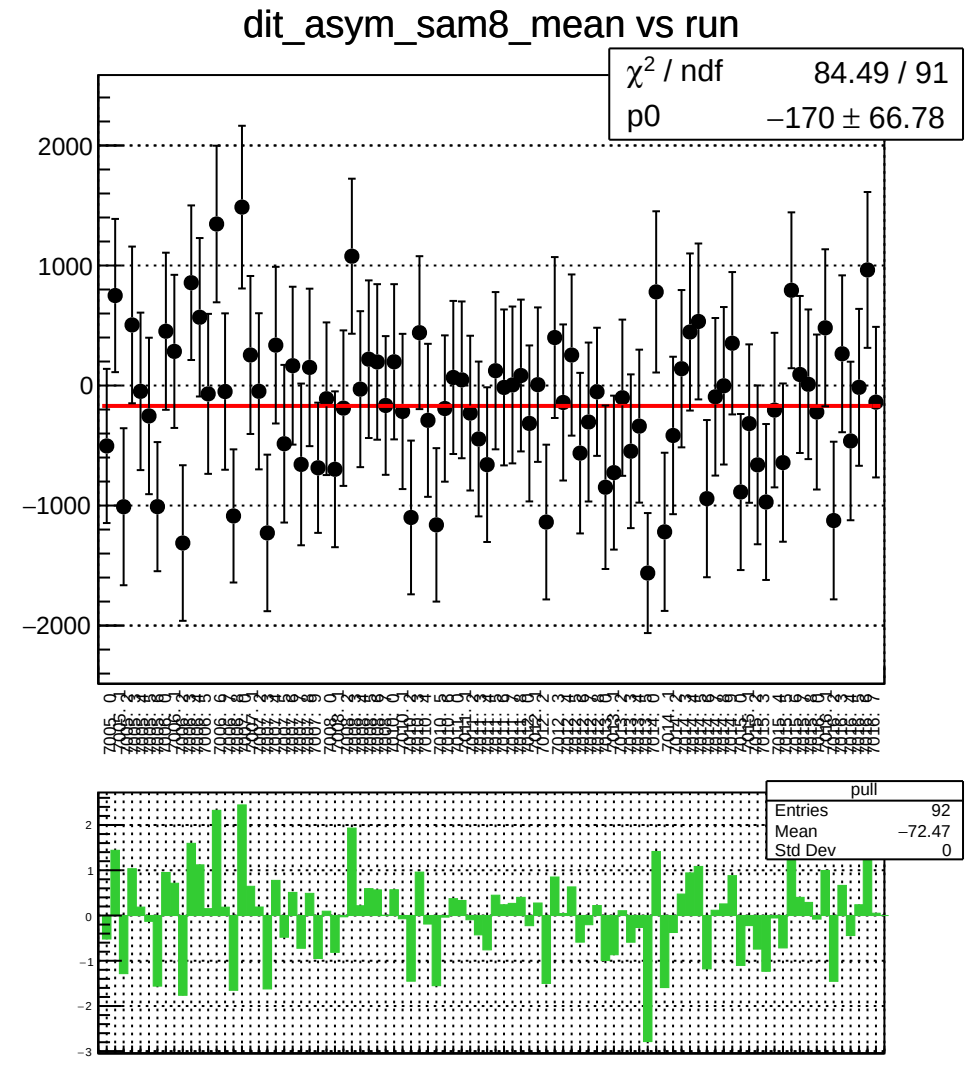

pull1D
Entries 92
Mean 0.01595
Std Dev 0.9651

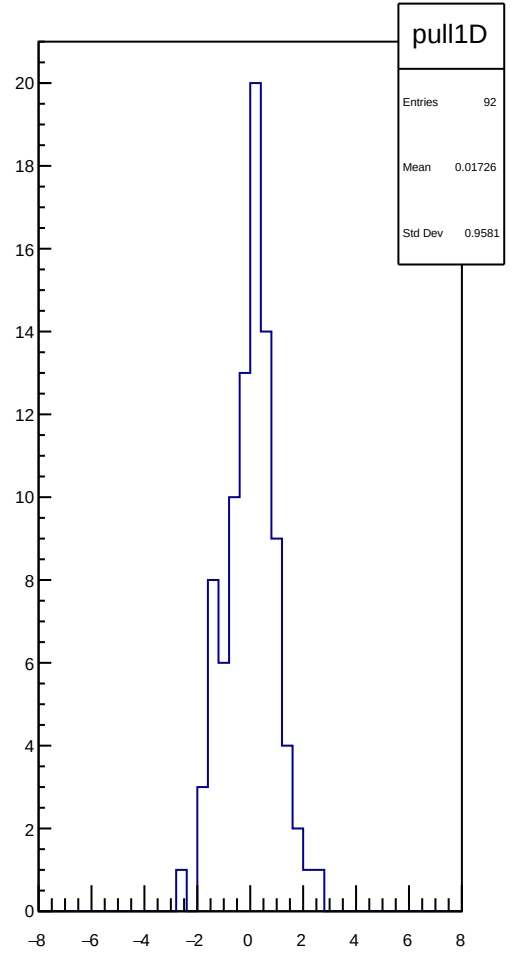

eigen_cor_asym_sam8_rms vs run
χ² / ndf 355.1 / 91
p0 58.03 ± 0.04431
61
60
59
58
57
56

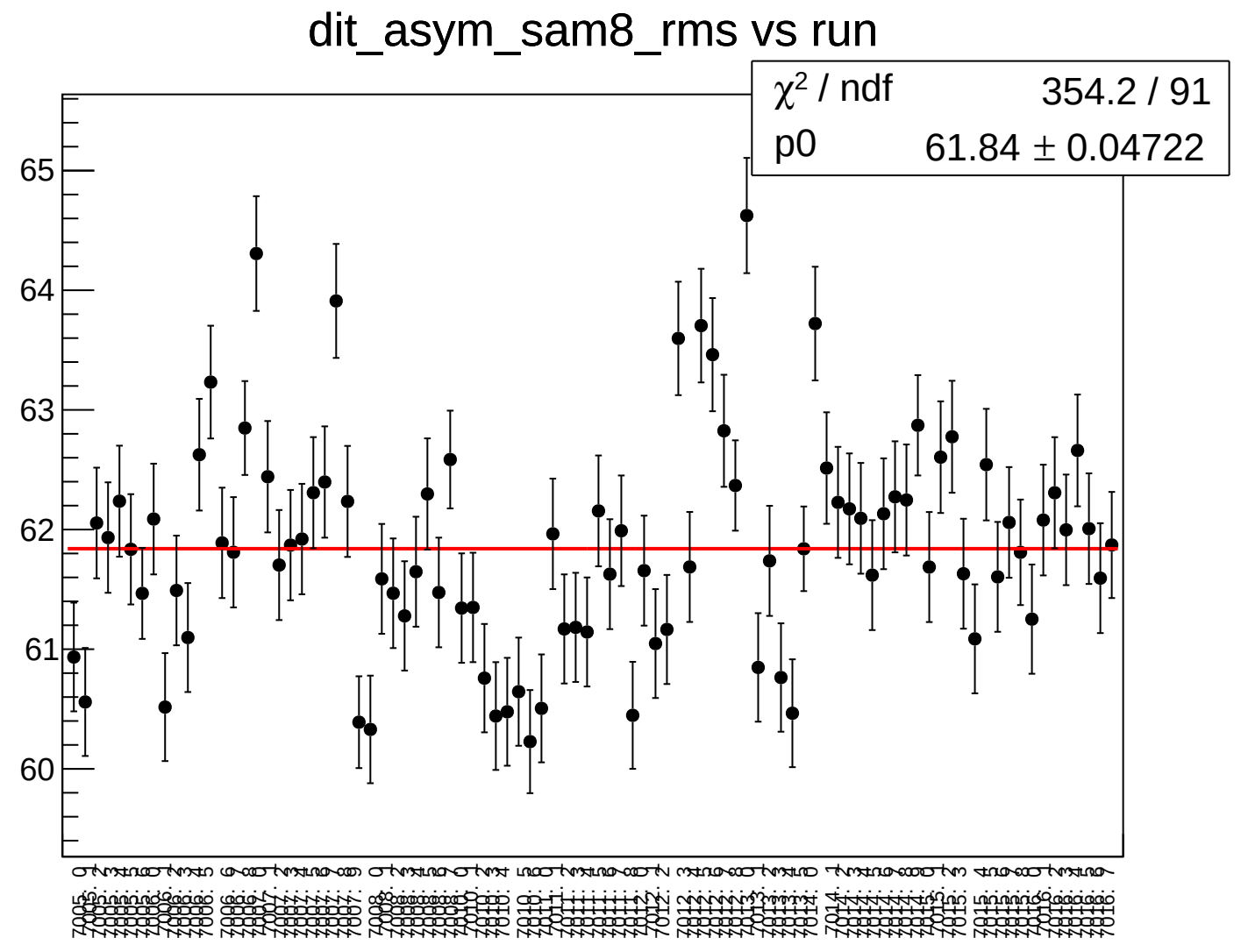

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 79.96 / 91
p0 −393.6 ± 303.6
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 34.95
Std Dev 93.34
2
1
0
−1
−2

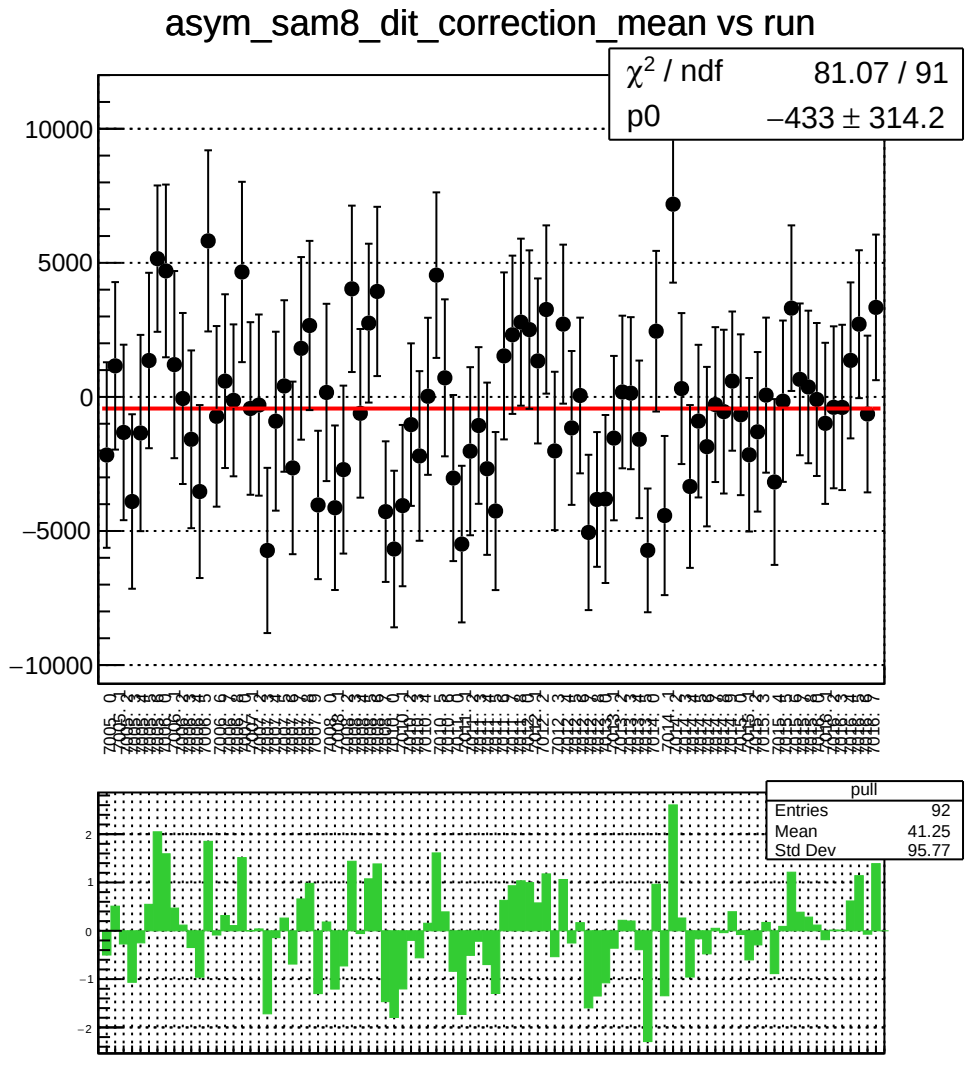

pull1D
Entries 92
Mean 0.0126
Std Dev 0.9322
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

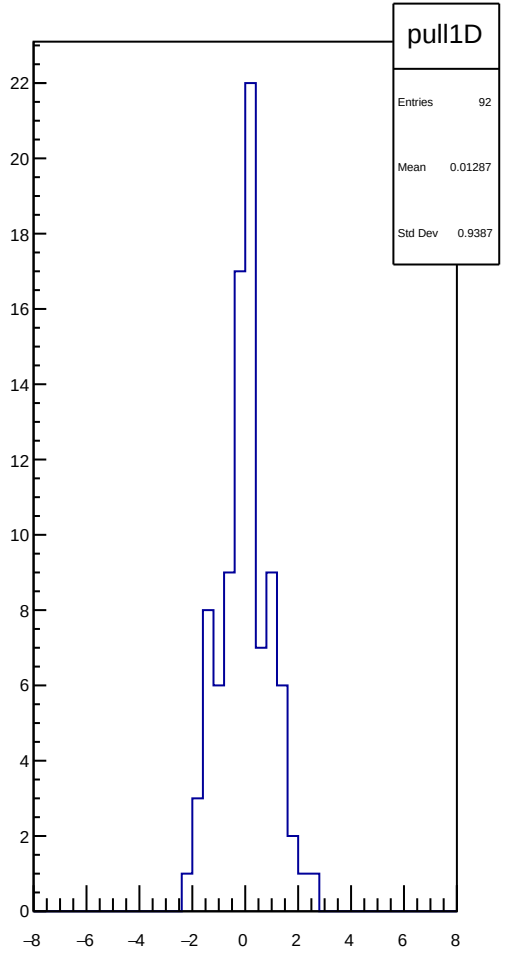

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 6715 / 91
p0 280.6 ± 0.2146
340
320
300
280
260
240

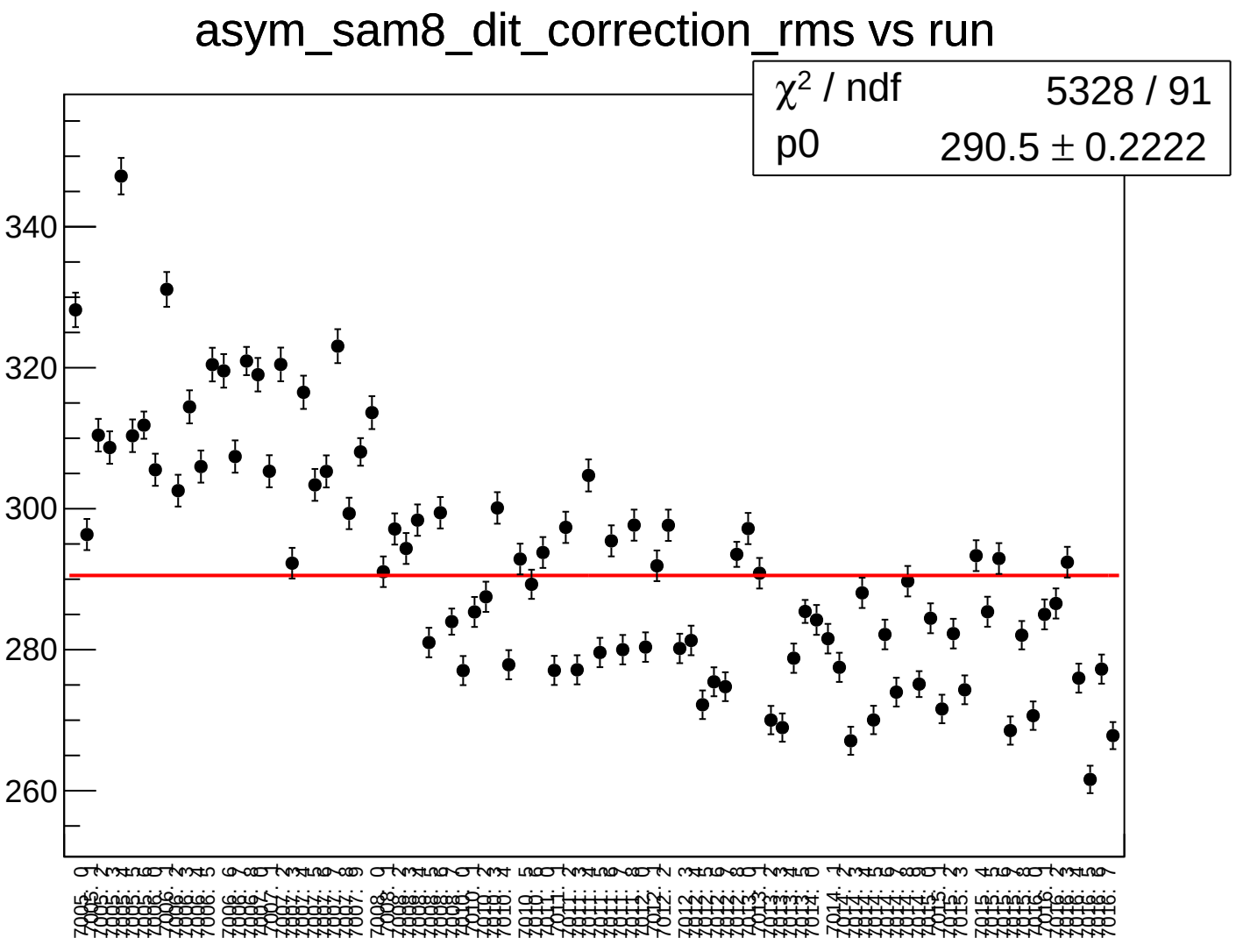

dit_asym_sam8_mean vs run
χ² / ndf 84.49 / 91
p0 −170 ± 66.78
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −72.47
Std Dev 0
2
1
0
−1
−2
−3

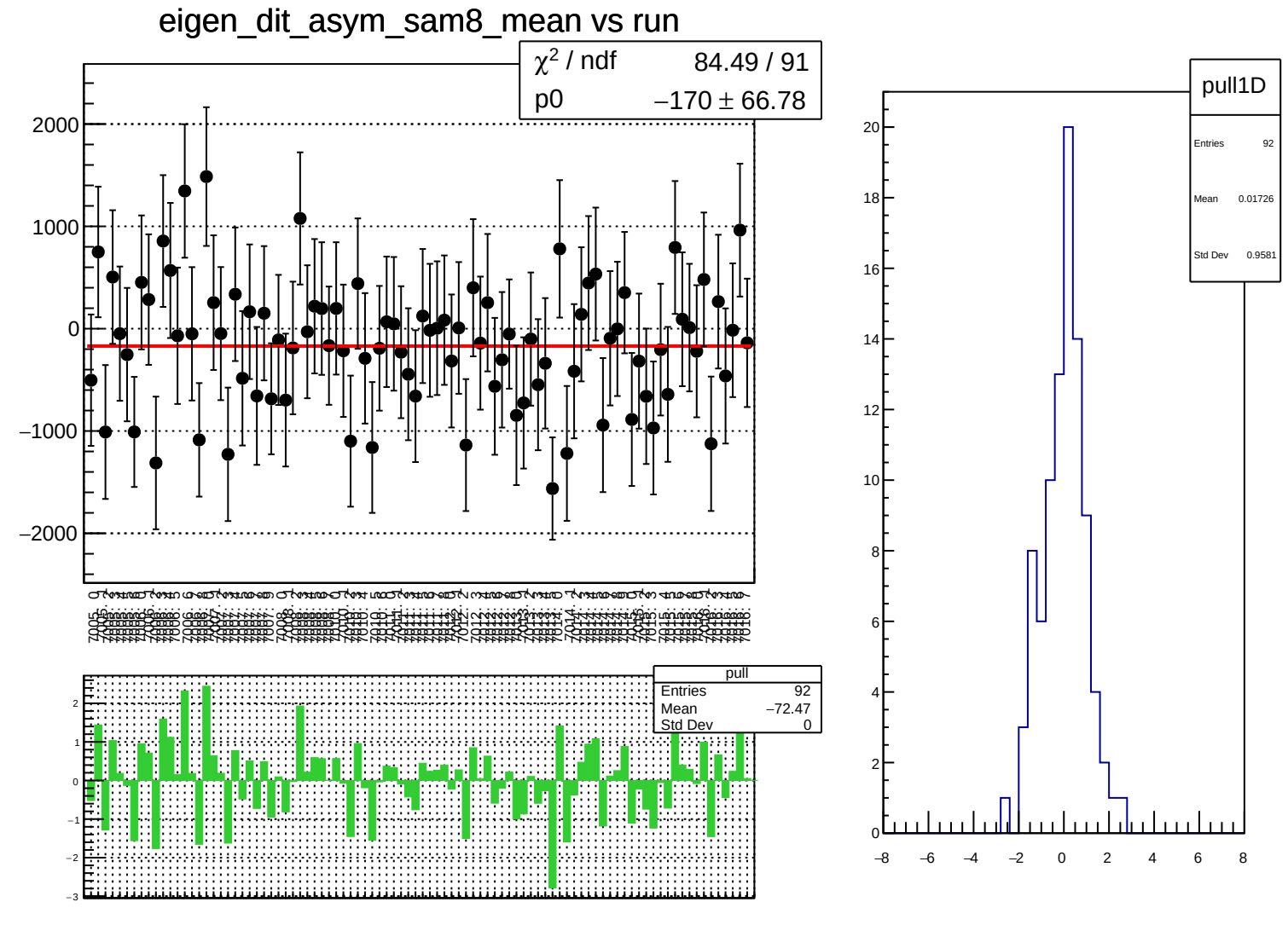

pull1D
Entries 92
Mean 0.01726
Std Dev 0.9581
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

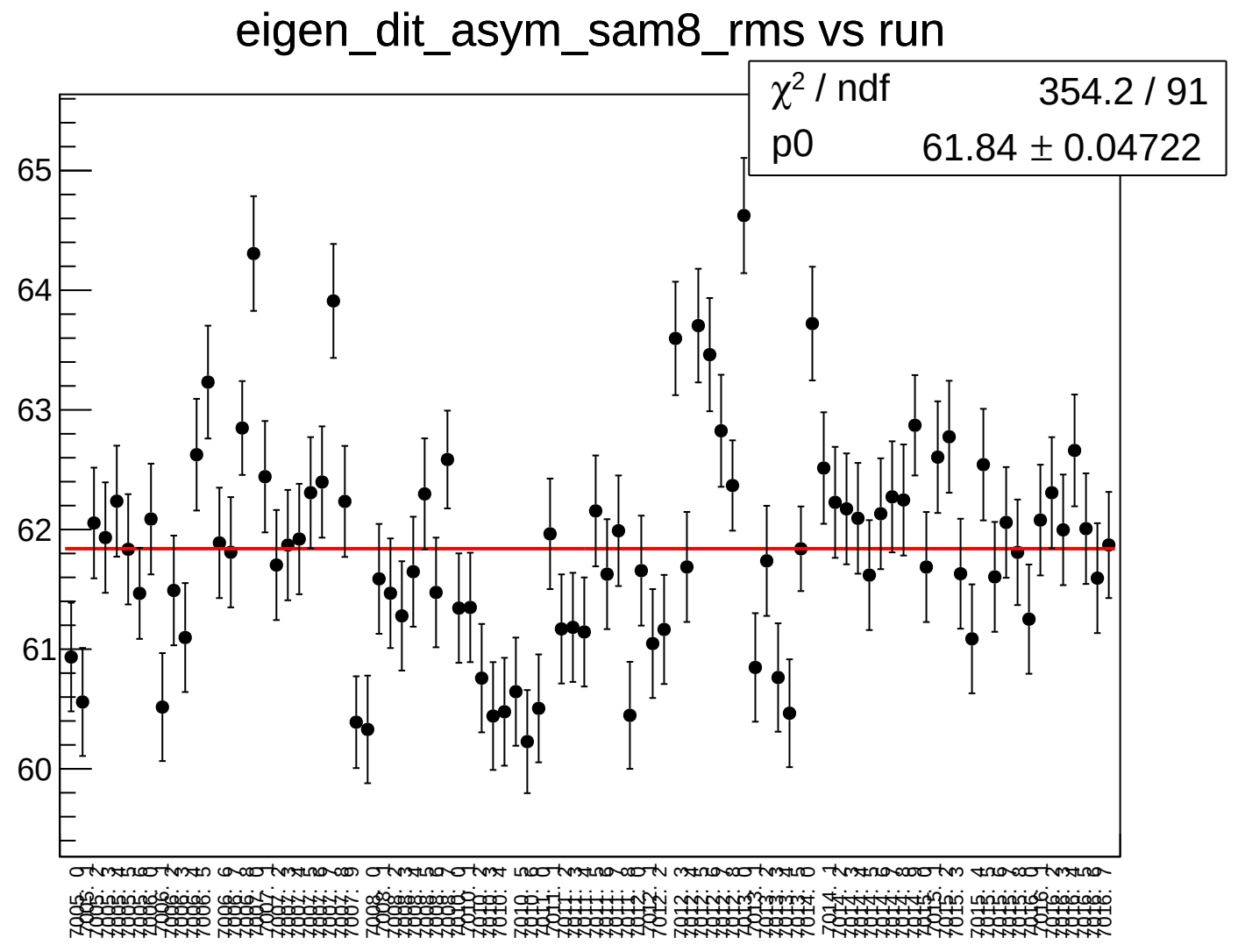

dit_asym_sam8_rms vs run
χ² / ndf 354.2 / 91
p0 61.84 ± 0.04722
65
64
63
62
61
60

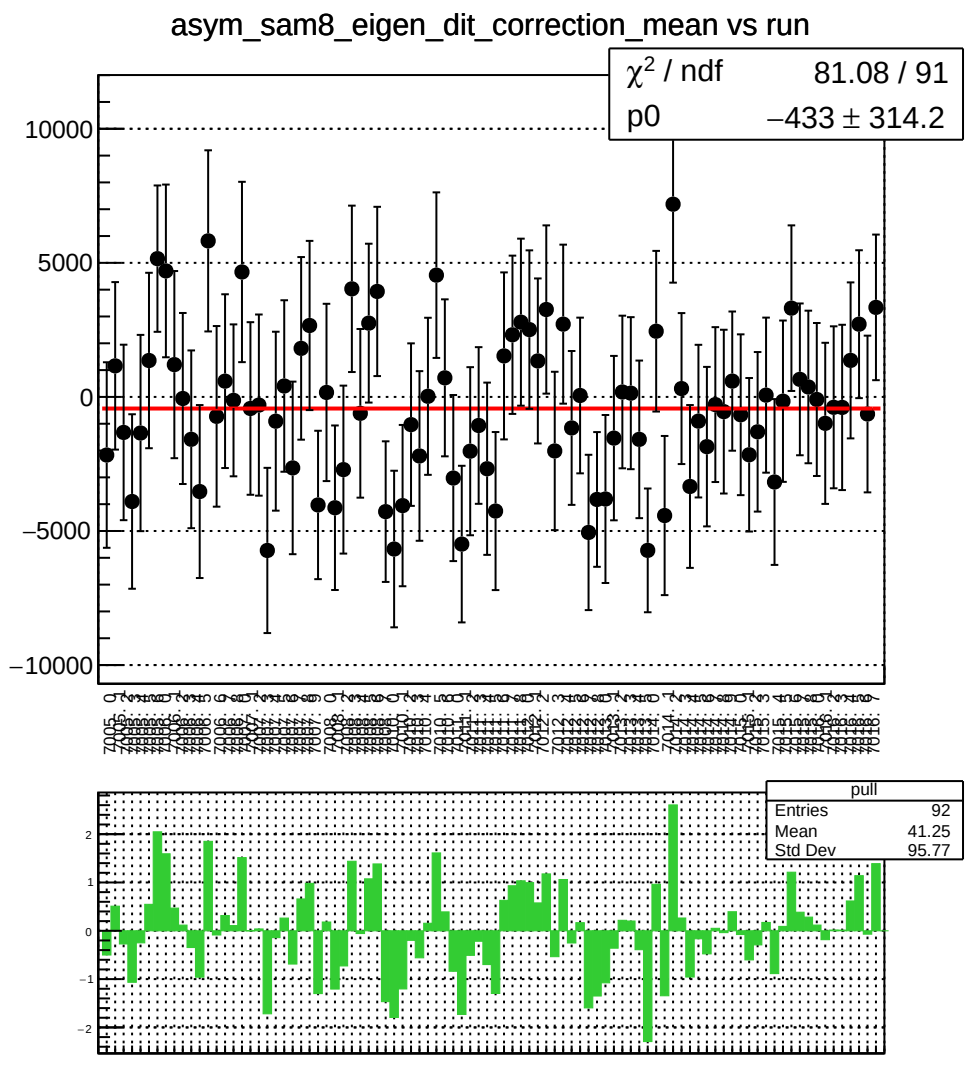

asym_sam8_dit_correction_mean vs run
χ² / ndf 81.07 / 91
p0 −433 ± 314.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 41.25
Std Dev 95.77
2
1
0
−1
−2

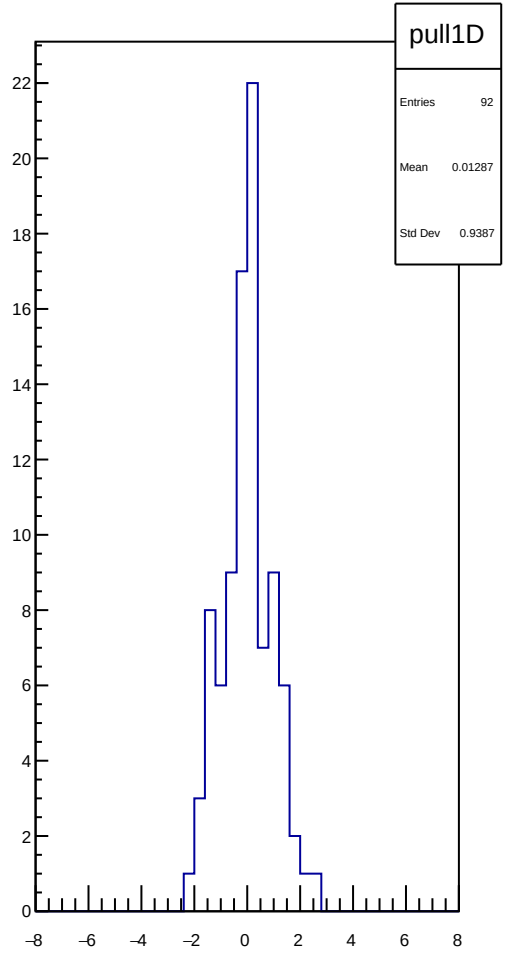

pull1D
Entries 92
Mean 0.01287
Std Dev 0.9387
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

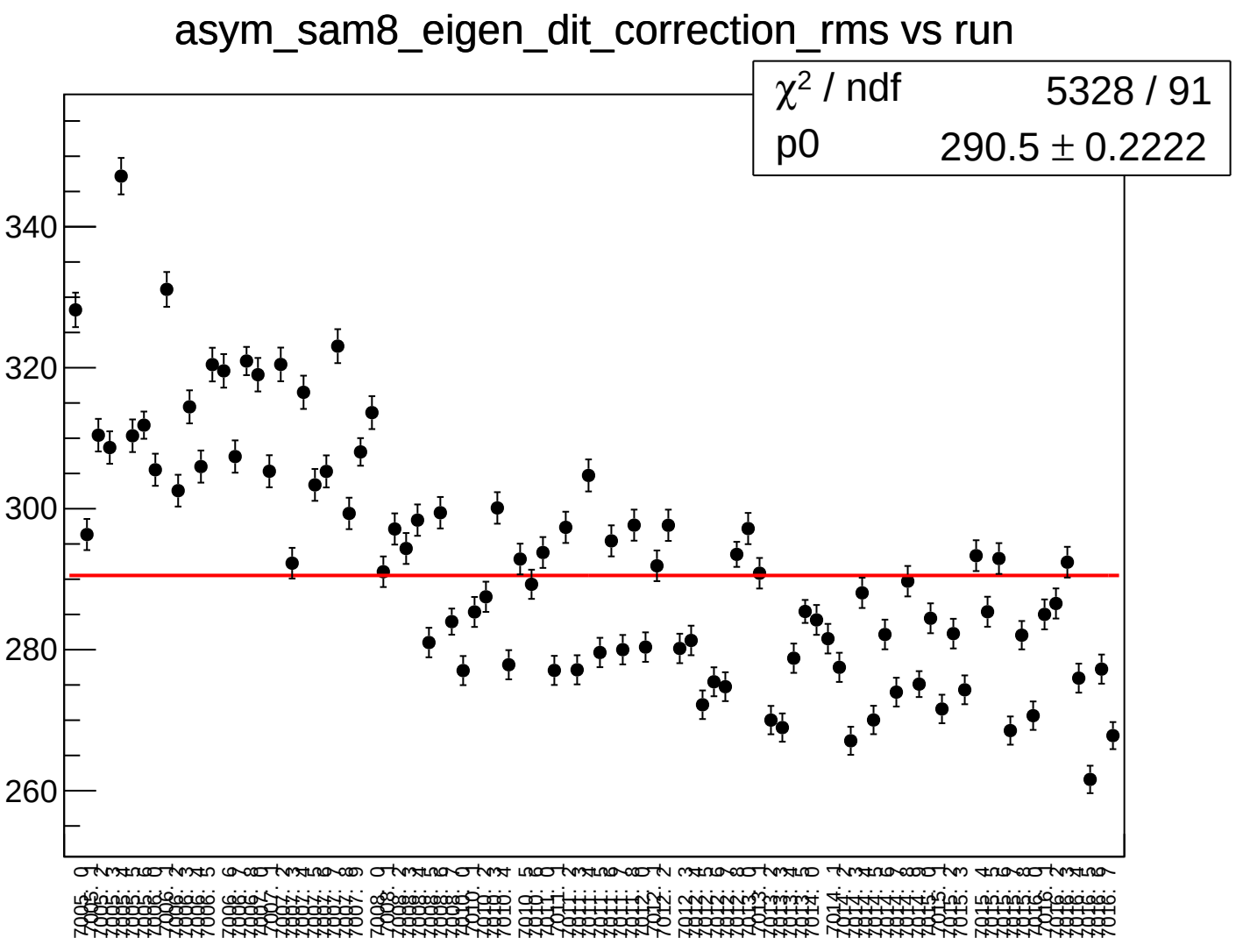

asym_sam8_dit_correction_rms vs run
$\chi^2$ / ndf 5328 / 91
p0 290.5 ± 0.2222
340
320
300
280
260

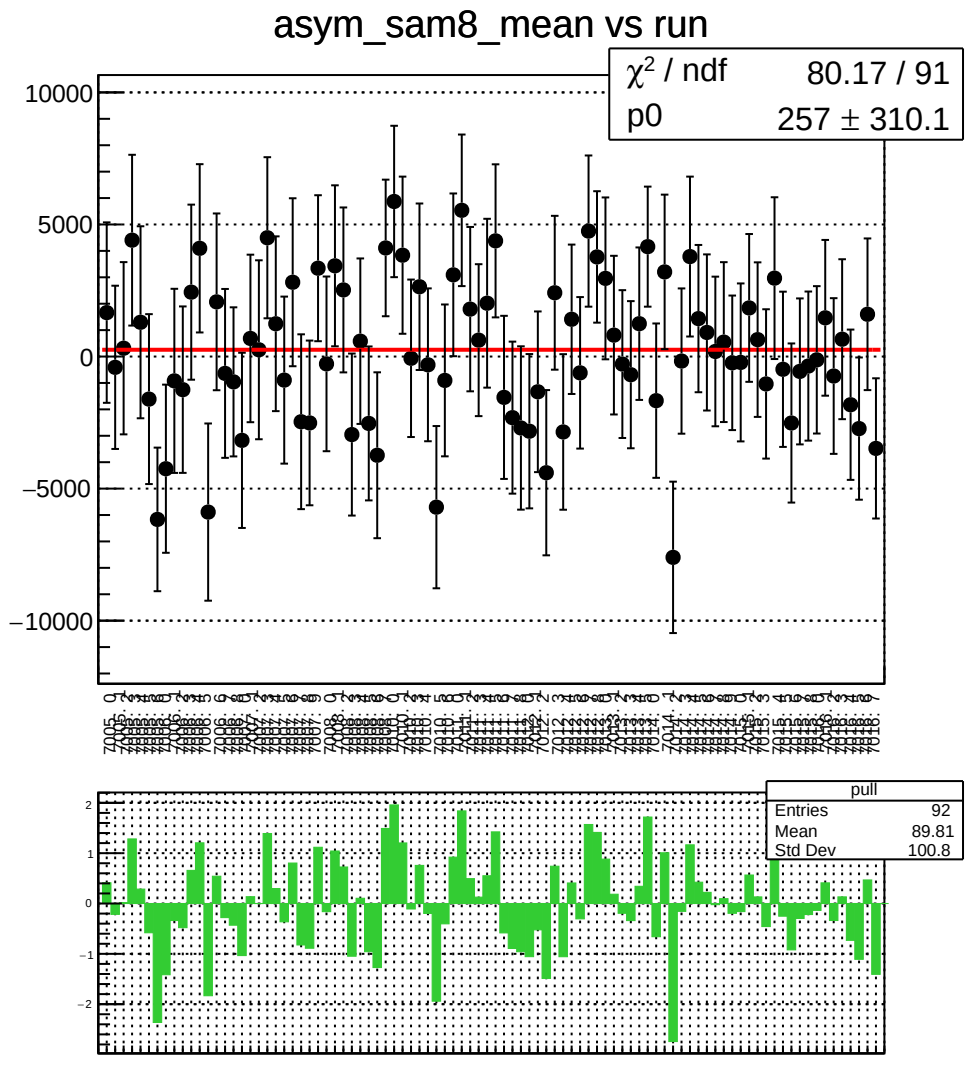

eigen_dit_asym_sam8_mean vs run
χ² / ndf 84.49 / 91
p0 −170 ± 66.78
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −72.47
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01726
Std Dev 0.9581
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

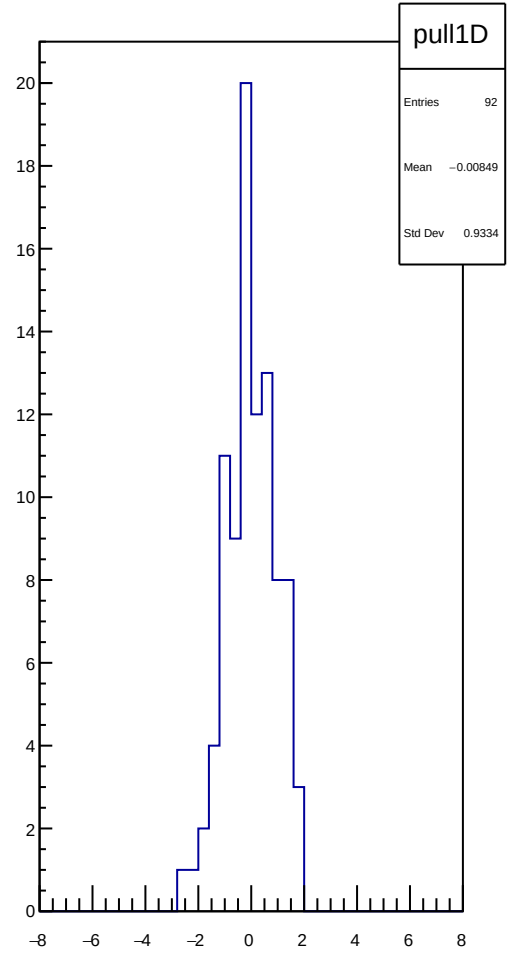

eigen_dit_asym_sam8_rms vs run
χ² / ndf 354.2 / 91
p0 61.84 ± 0.04722
65
64
63
62
61
60

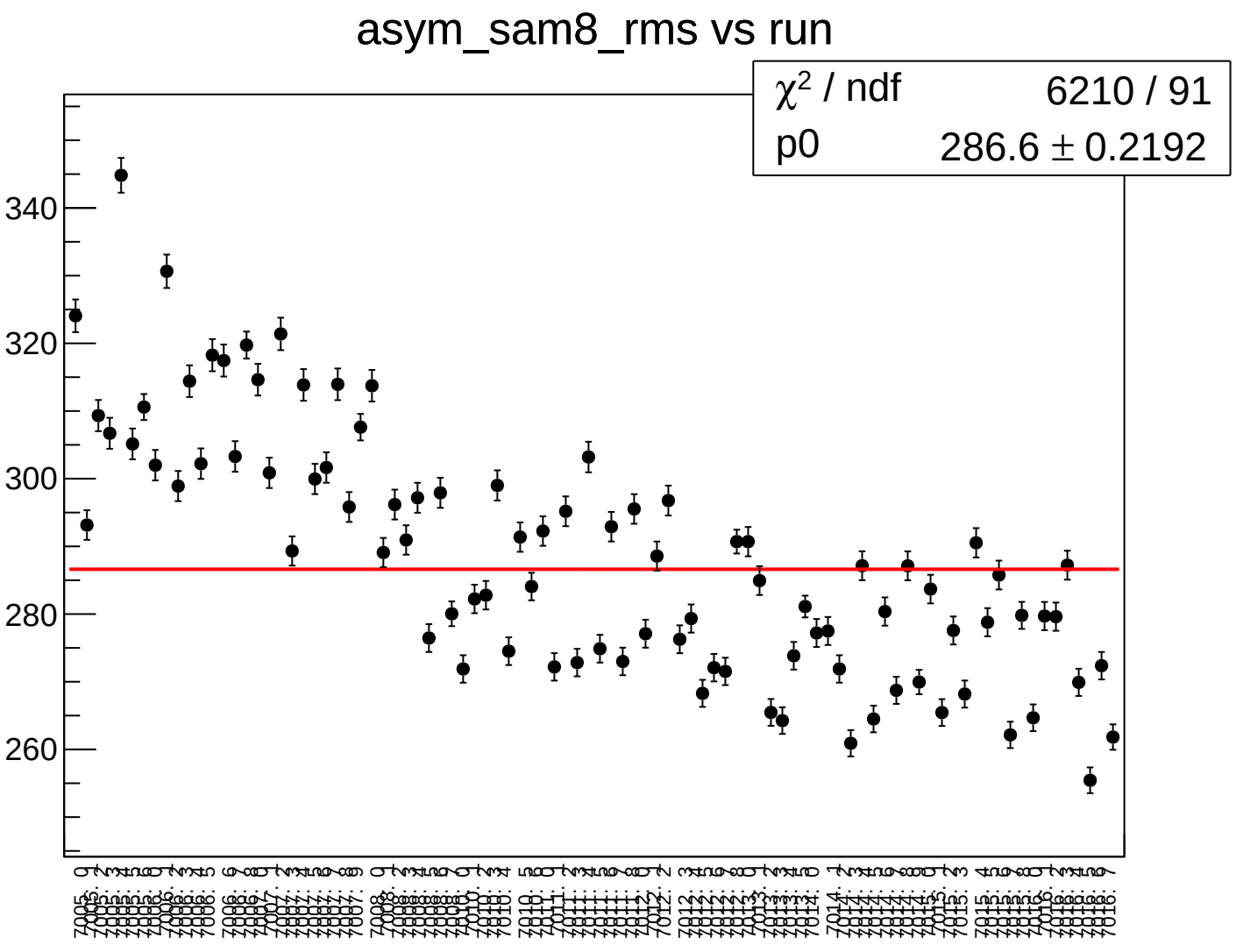

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 81.08 / 91
p0 −433 ± 314.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 41.25
Std Dev 95.77
2
1
0
−1
−2

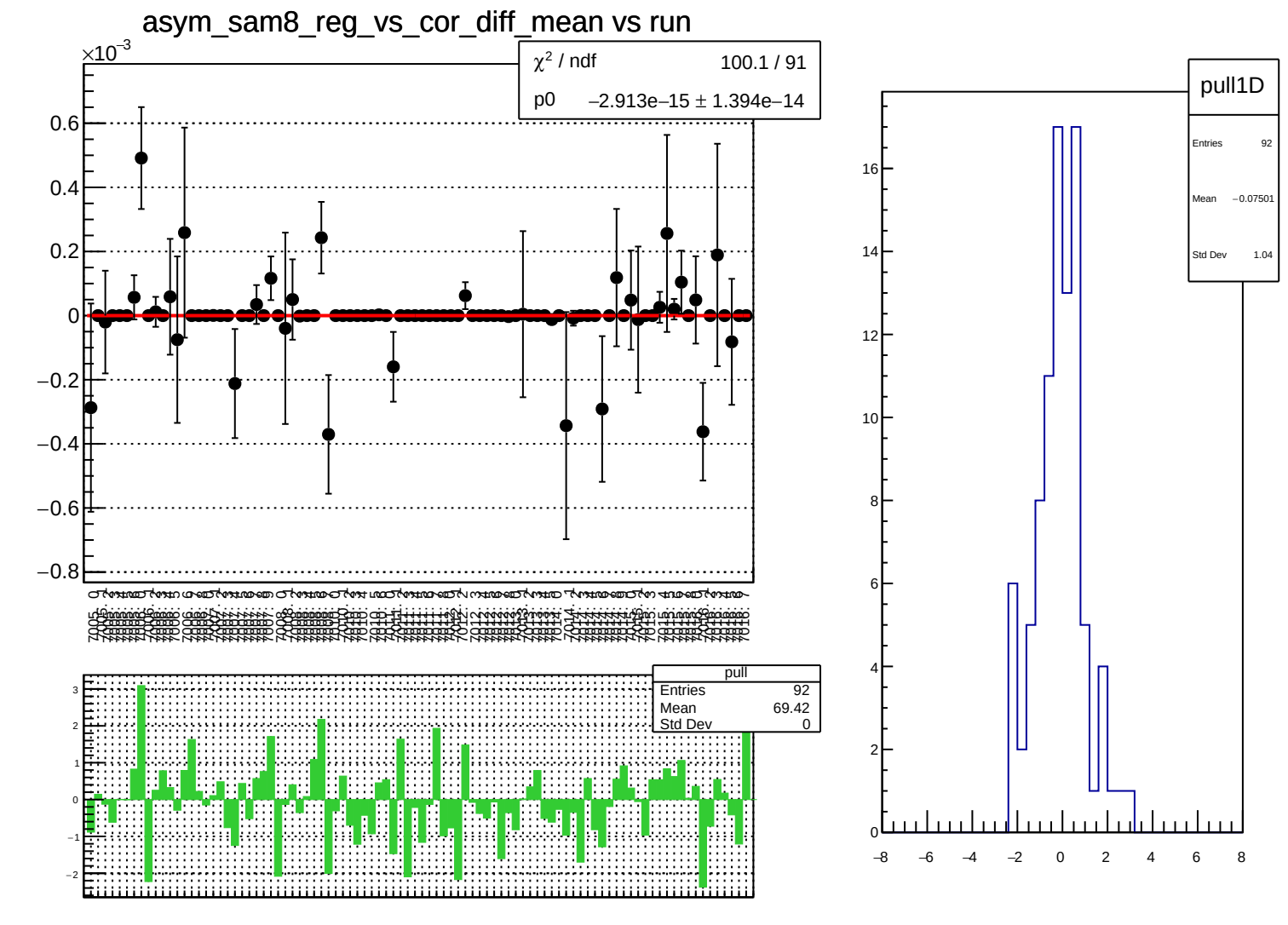

pull1D
Entries 92
Mean 0.01287
Std Dev 0.9387
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

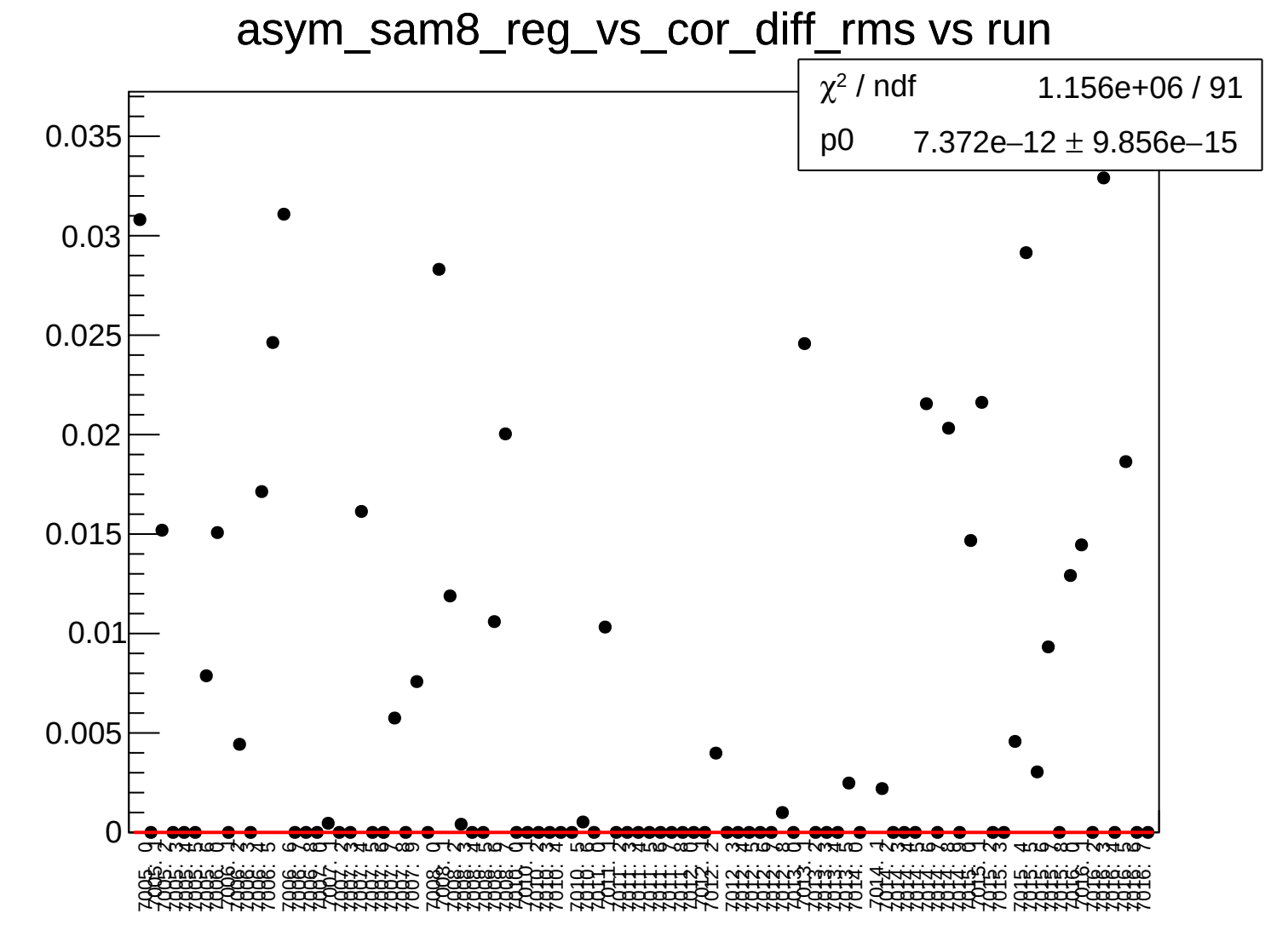

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 5328 / 91
p0 290.5 ± 0.2222
340
320
300
280
260

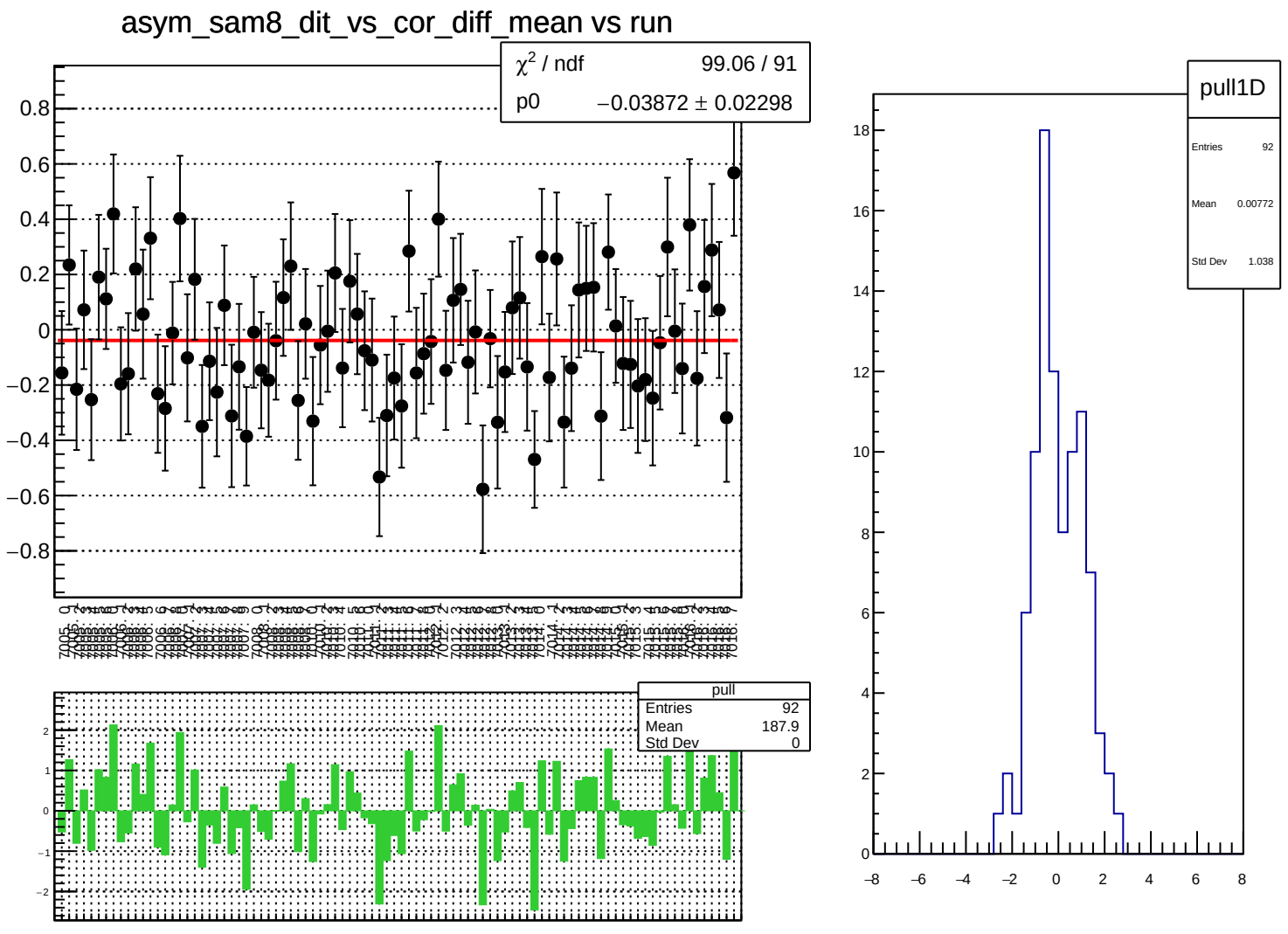

asym_sam8_mean vs run
χ² / ndf 80.17 / 91
p0 257 ± 310.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 89.81
Std Dev 100.8
2
1
0
−1
−2

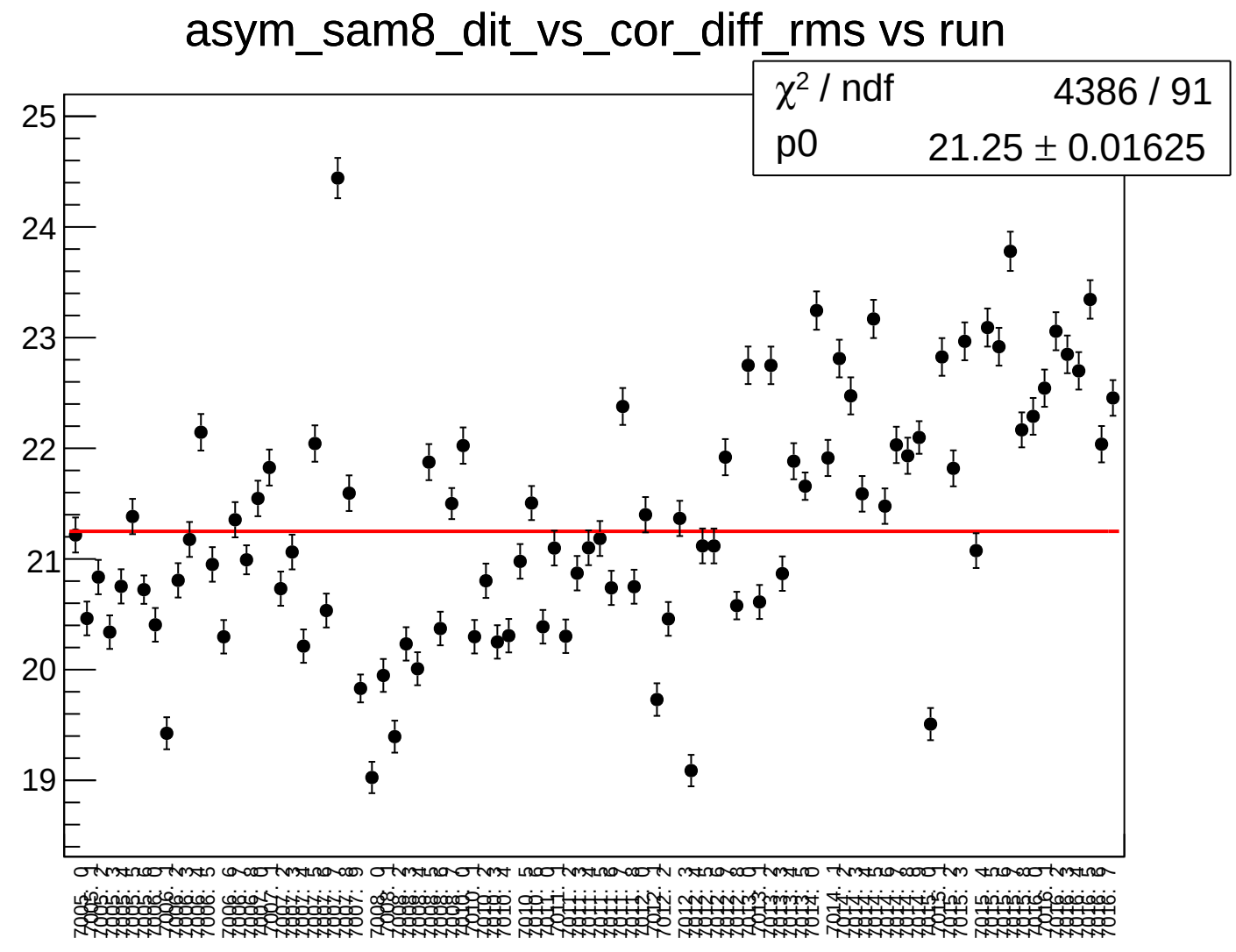

pull1D
Entries 92
Mean −0.00849
Std Dev 0.9334
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

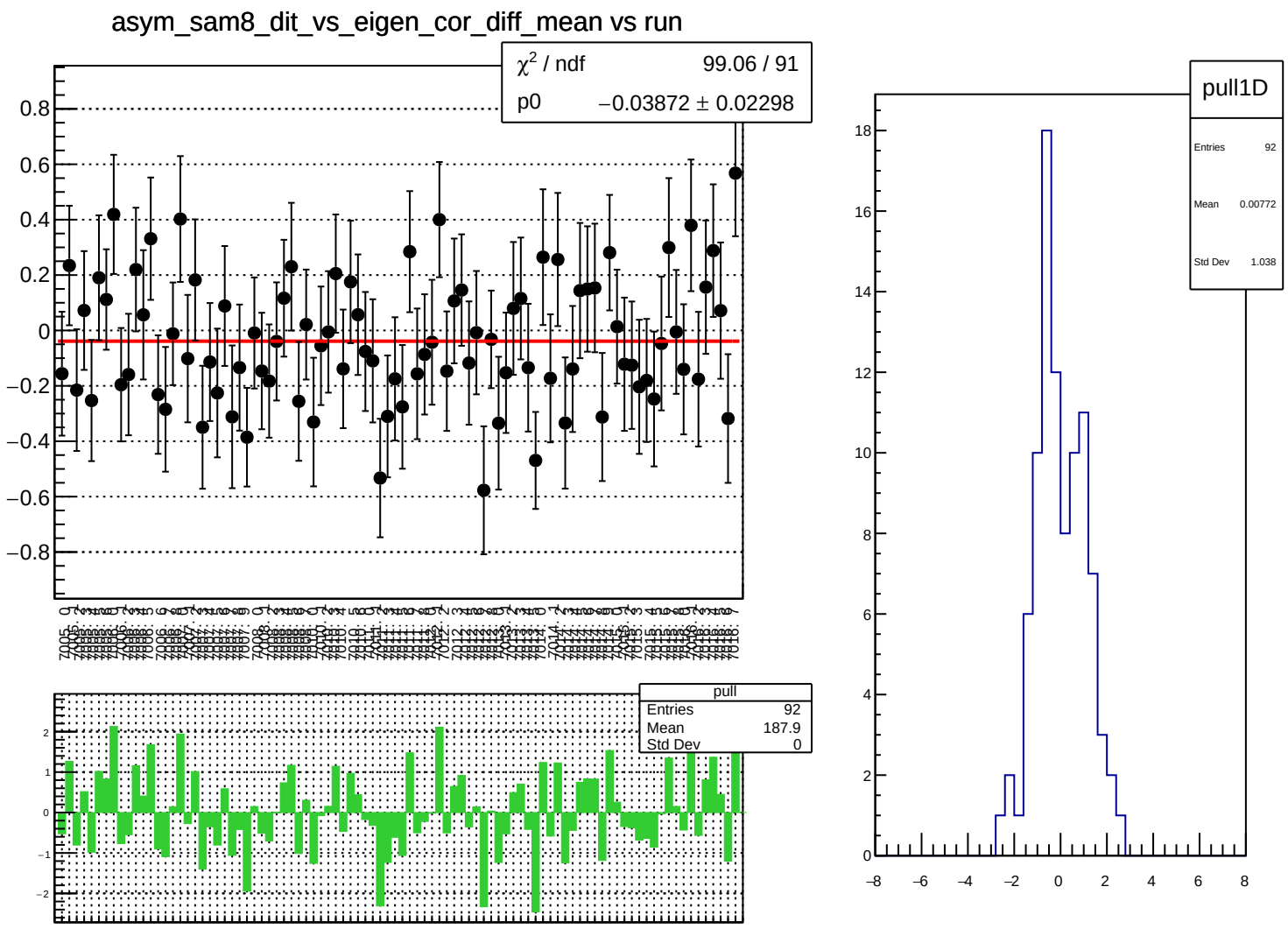

asym_sam8_rms vs run
χ² / ndf 6210 / 91
p0 286.6 ± 0.2192
340
320
300
280
260

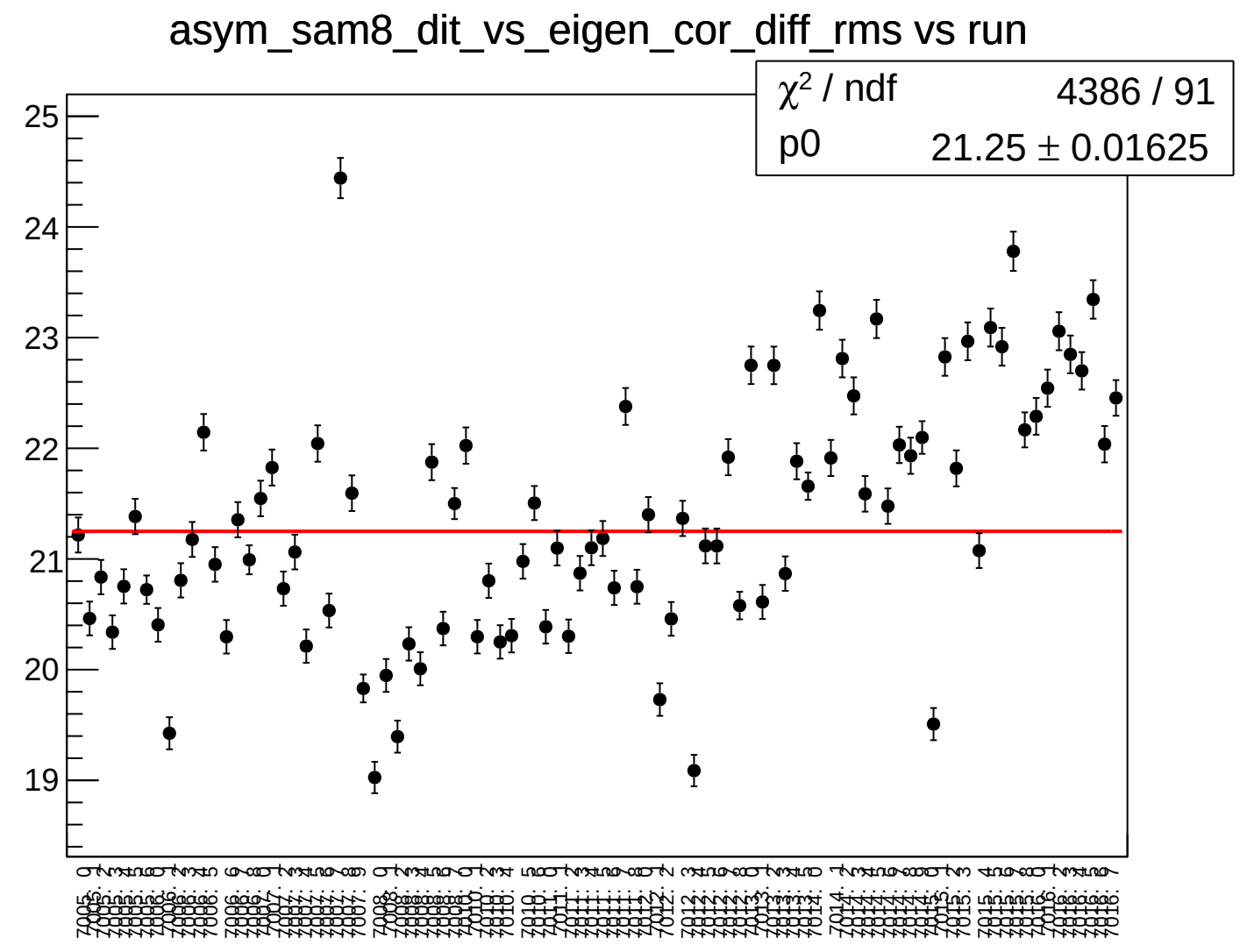

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 100.1 / 91
p0 −2.913e−15 ± 1.394e−14
pull
Entries 92
Mean 69.42
Std Dev 0
pull1D
Entries 92
Mean −0.07501
Std Dev 1.04

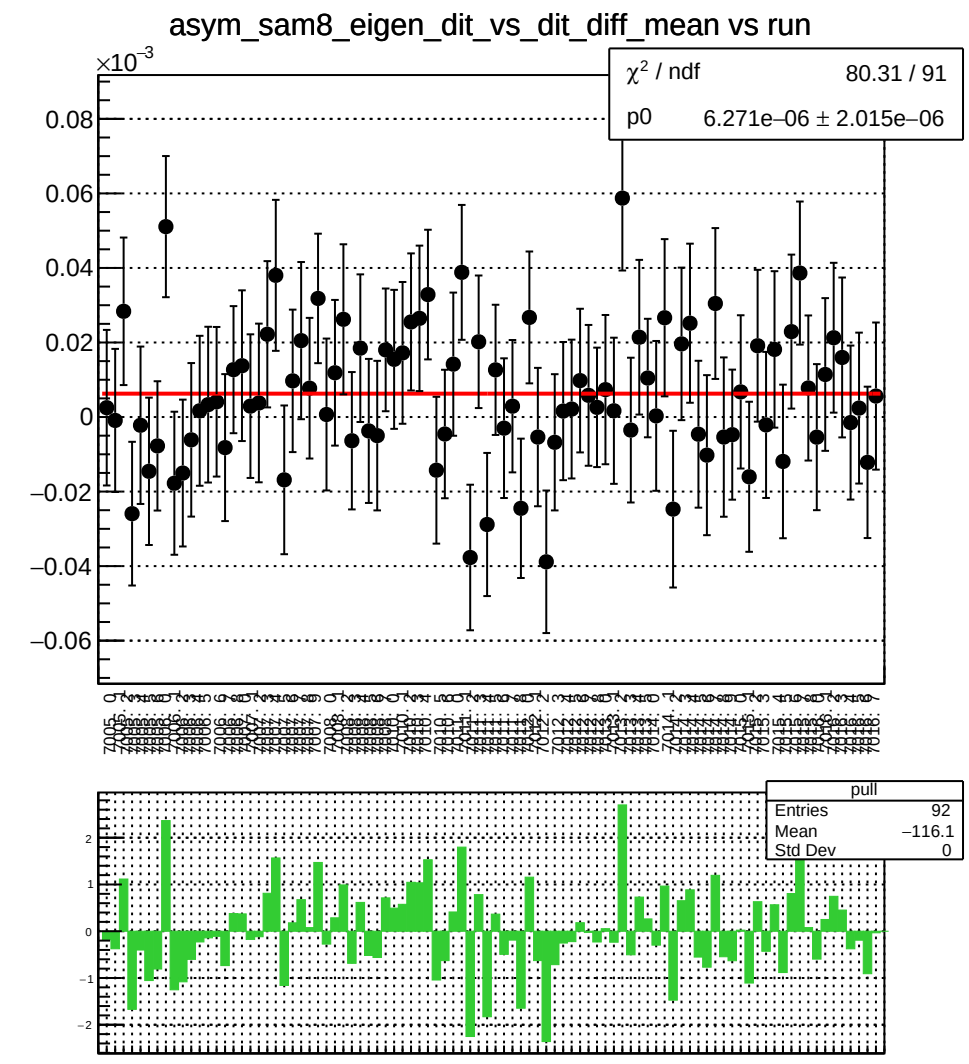

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.156e+06 / 91
p0 7.372e−12 ± 9.856e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

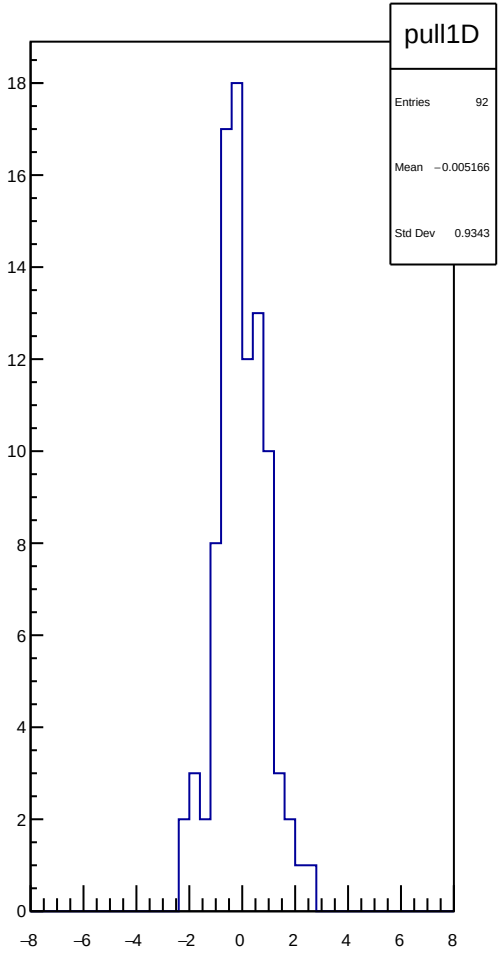

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 99.06 / 91
p0 −0.03872 ± 0.02298
pull
Entries 92
Mean 187.9
Std Dev 0
pull1D
Entries 92
Mean 0.00772
Std Dev 1.038

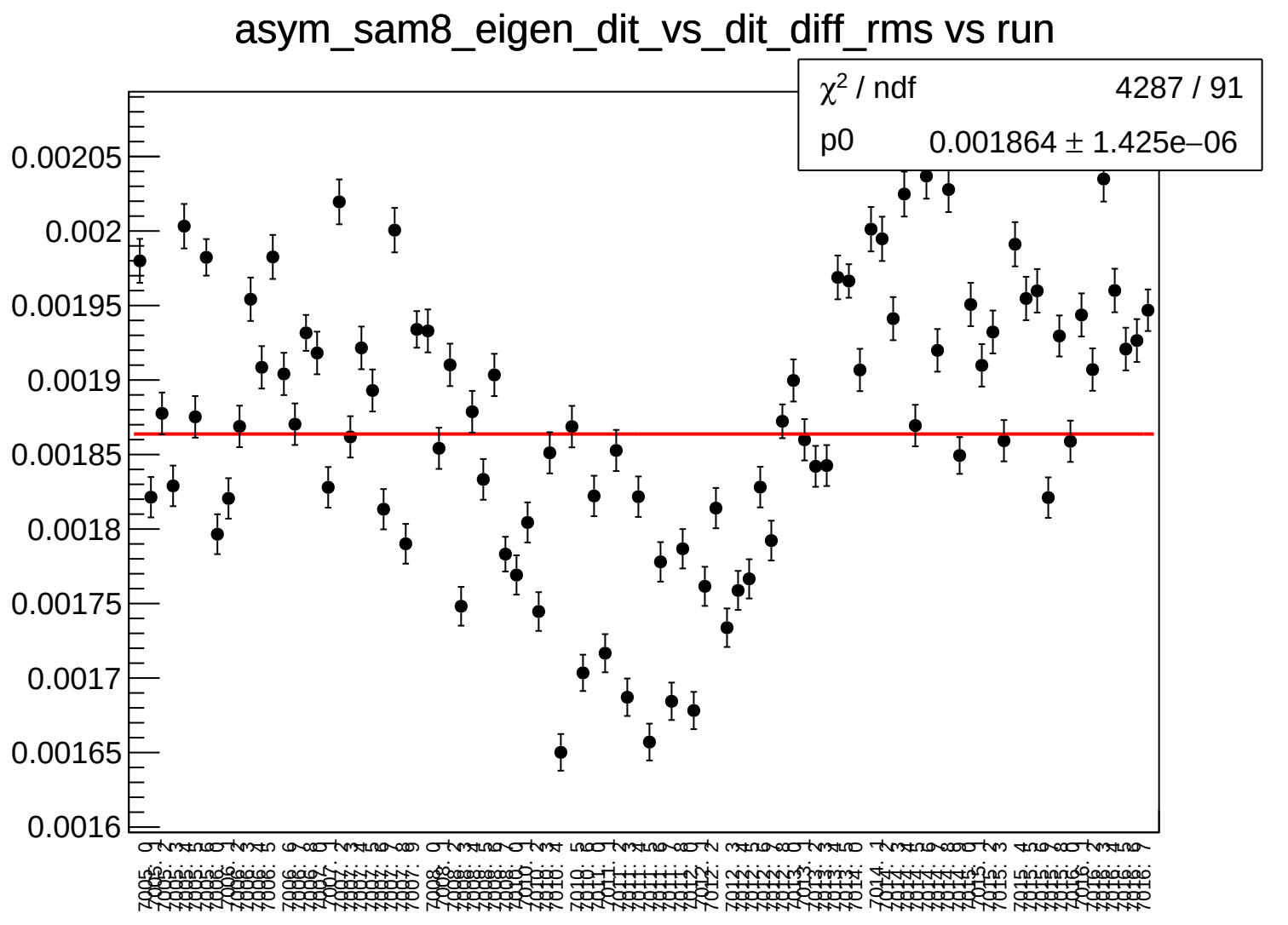

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 4386 / 91
p0 21.25 ± 0.01625
25
24
23
22
21
20
19

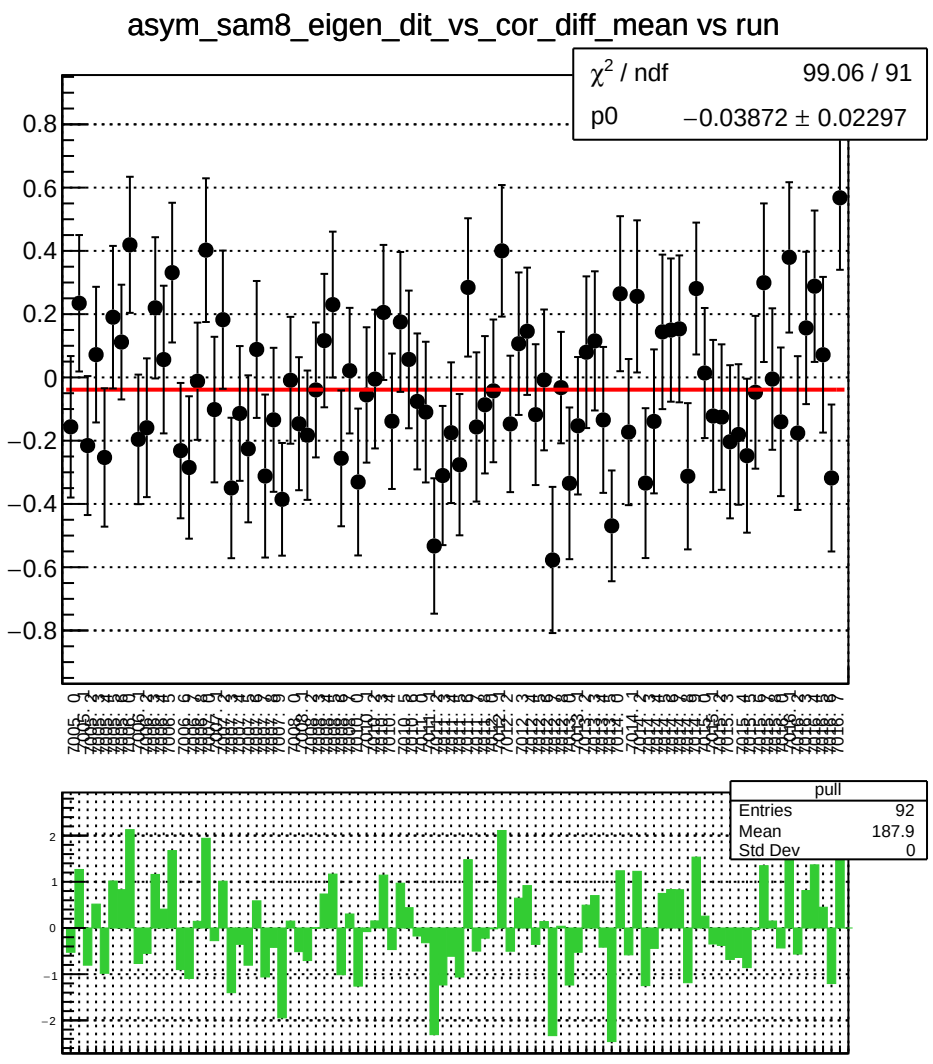

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.06 / 91
p0 −0.03872 ± 0.02298
pull
Entries 92
Mean 187.9
Std Dev 0
pull1D
Entries 92
Mean 0.00772
Std Dev 1.038

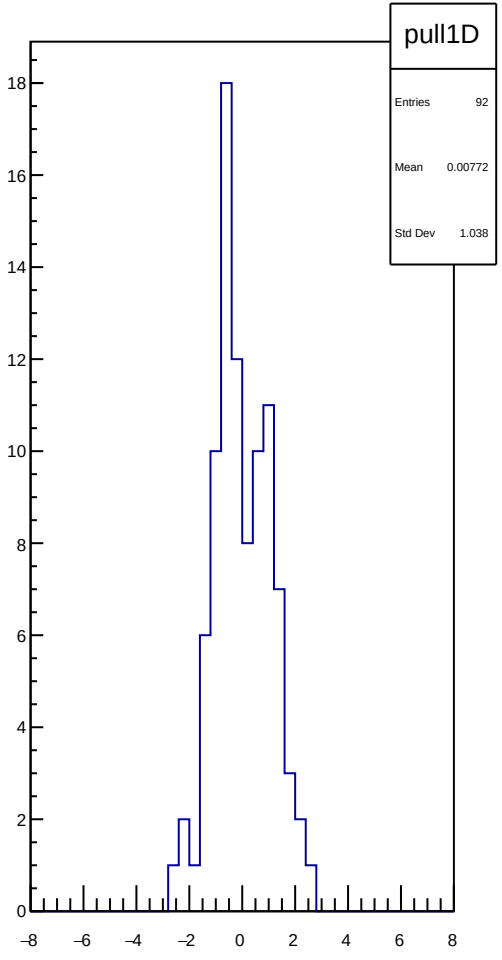

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4386 / 91
p0 21.25 ± 0.01625
25
24
23
22
21
20
19

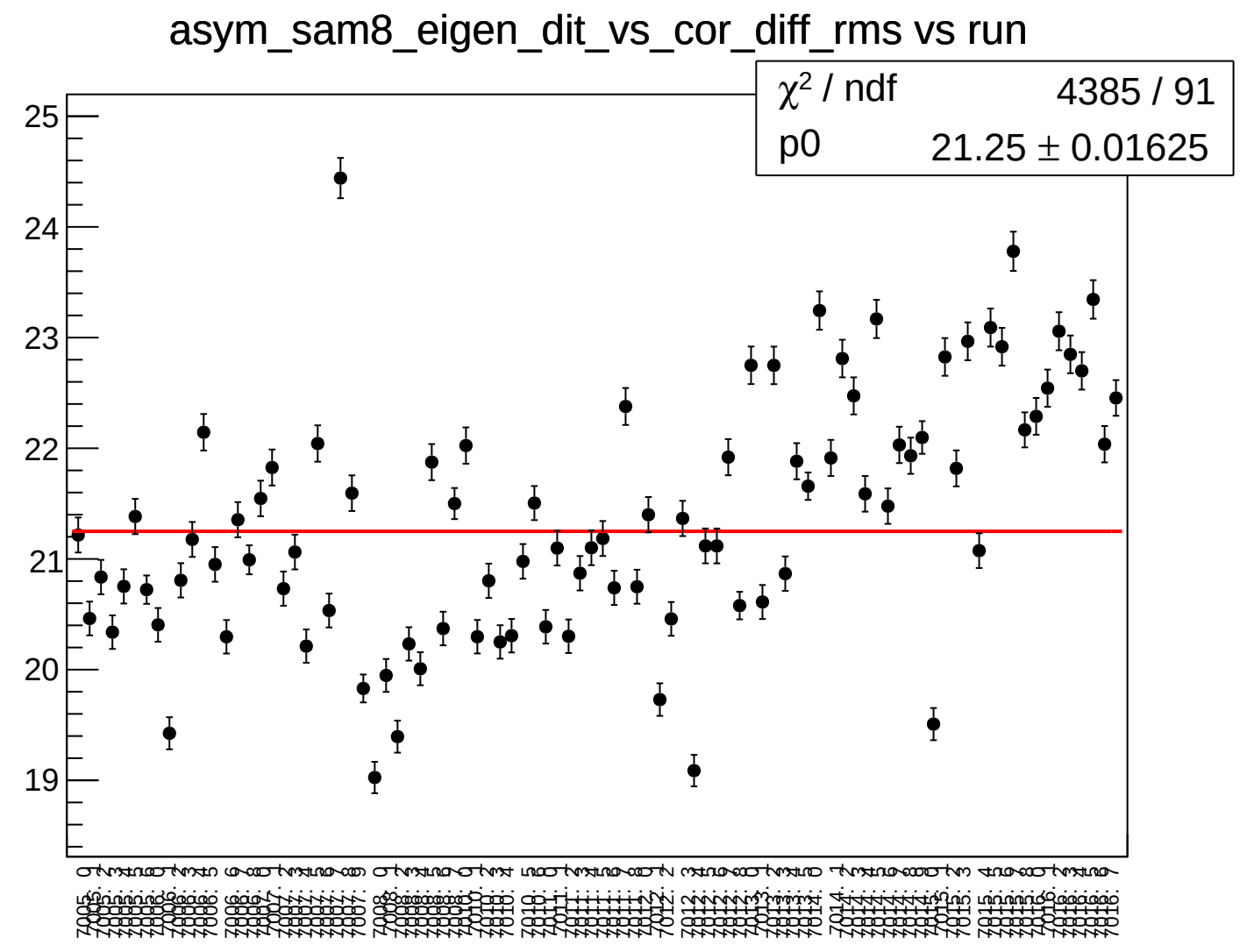

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.31 / 91
p0 6.271e−06 ± 2.015e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean −116.1
Std Dev 0
2
1
0
−1
−2

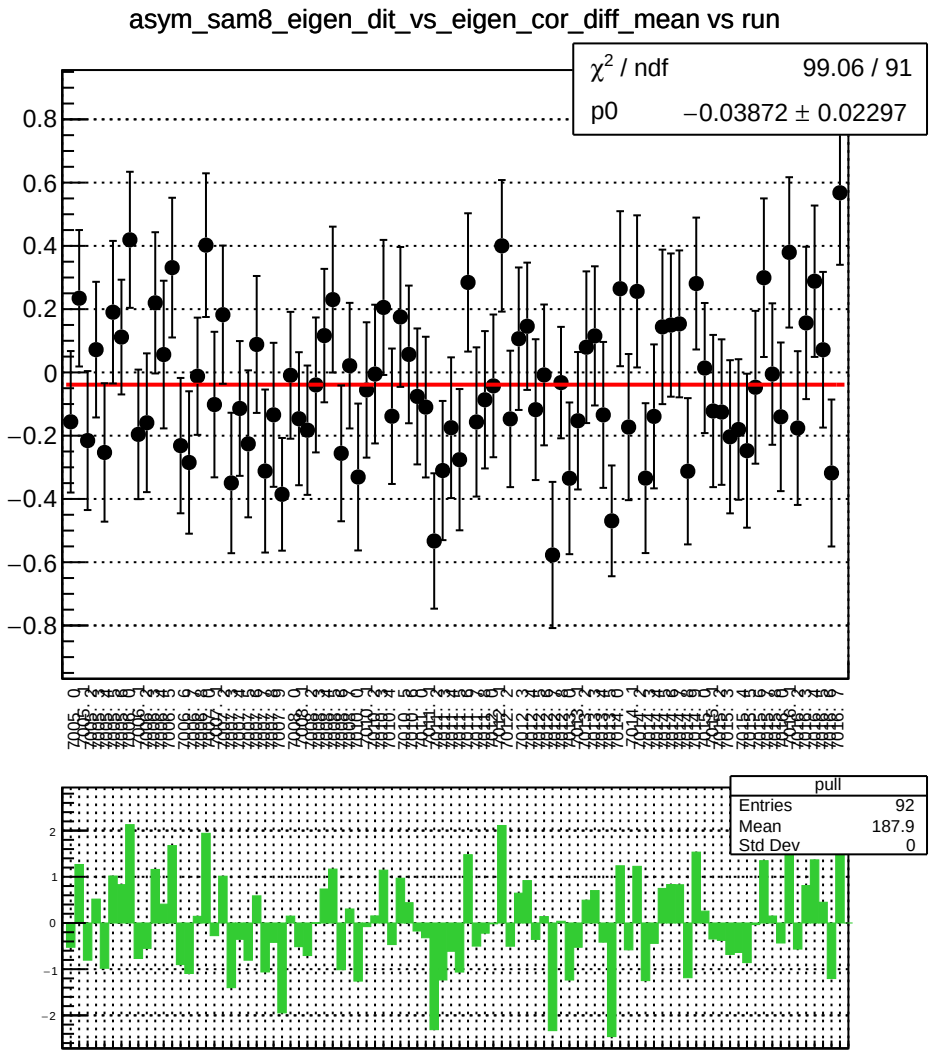

pull1D
Entries 92
Mean −0.005166
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

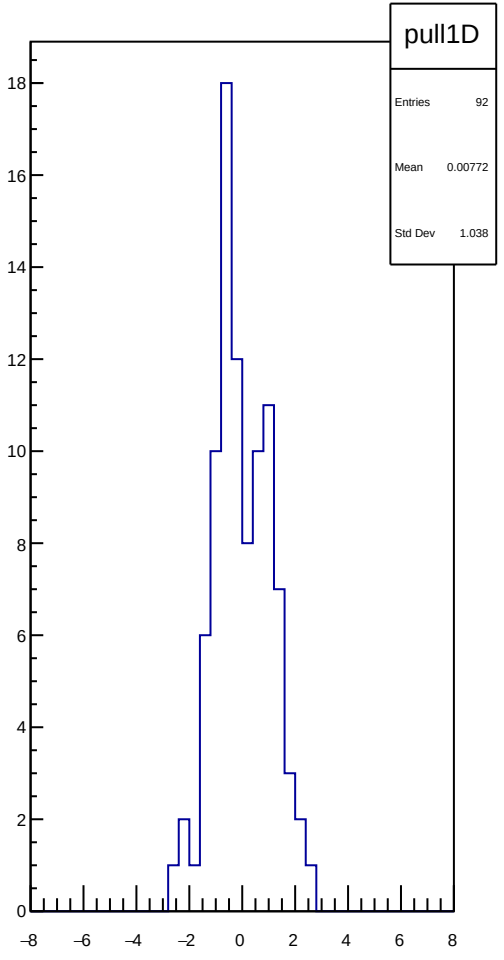

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4287 / 91
p0 0.001864 ± 1.425e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

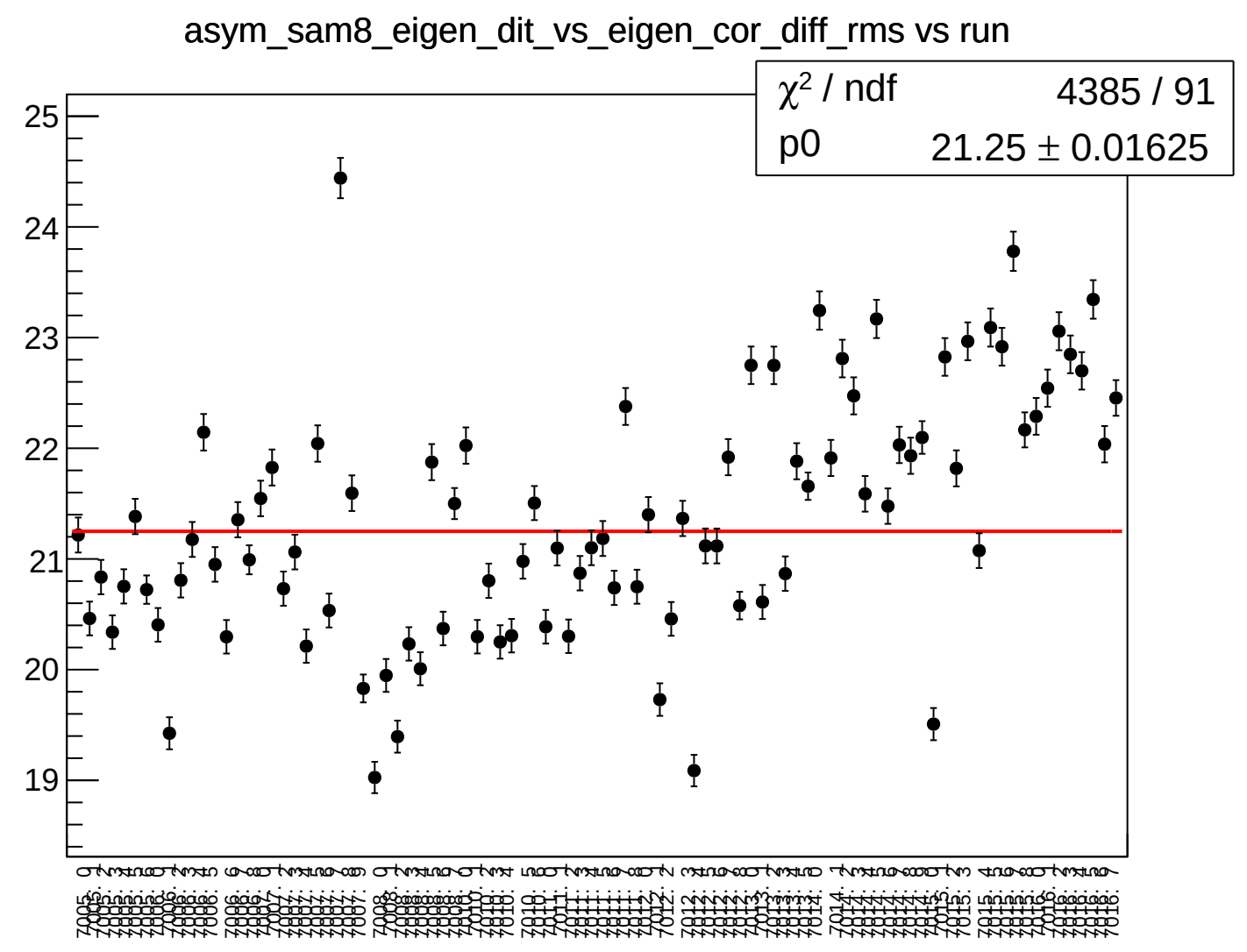

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.06 / 91
p0 −0.03872 ± 0.02297
pull
Entries 92
Mean 187.9
Std Dev 0

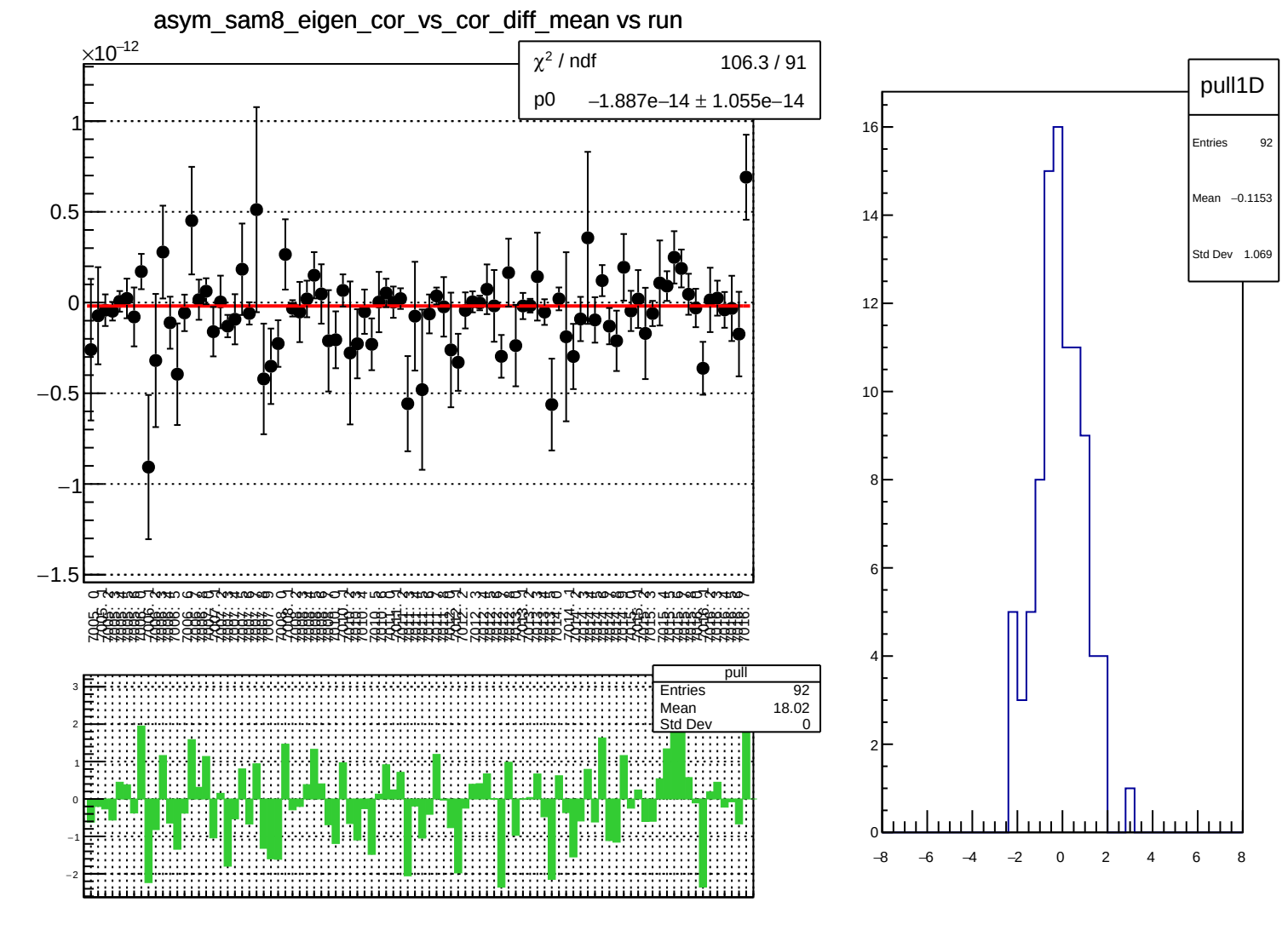

pull1D
Entries 92
Mean 0.00772
Std Dev 1.038

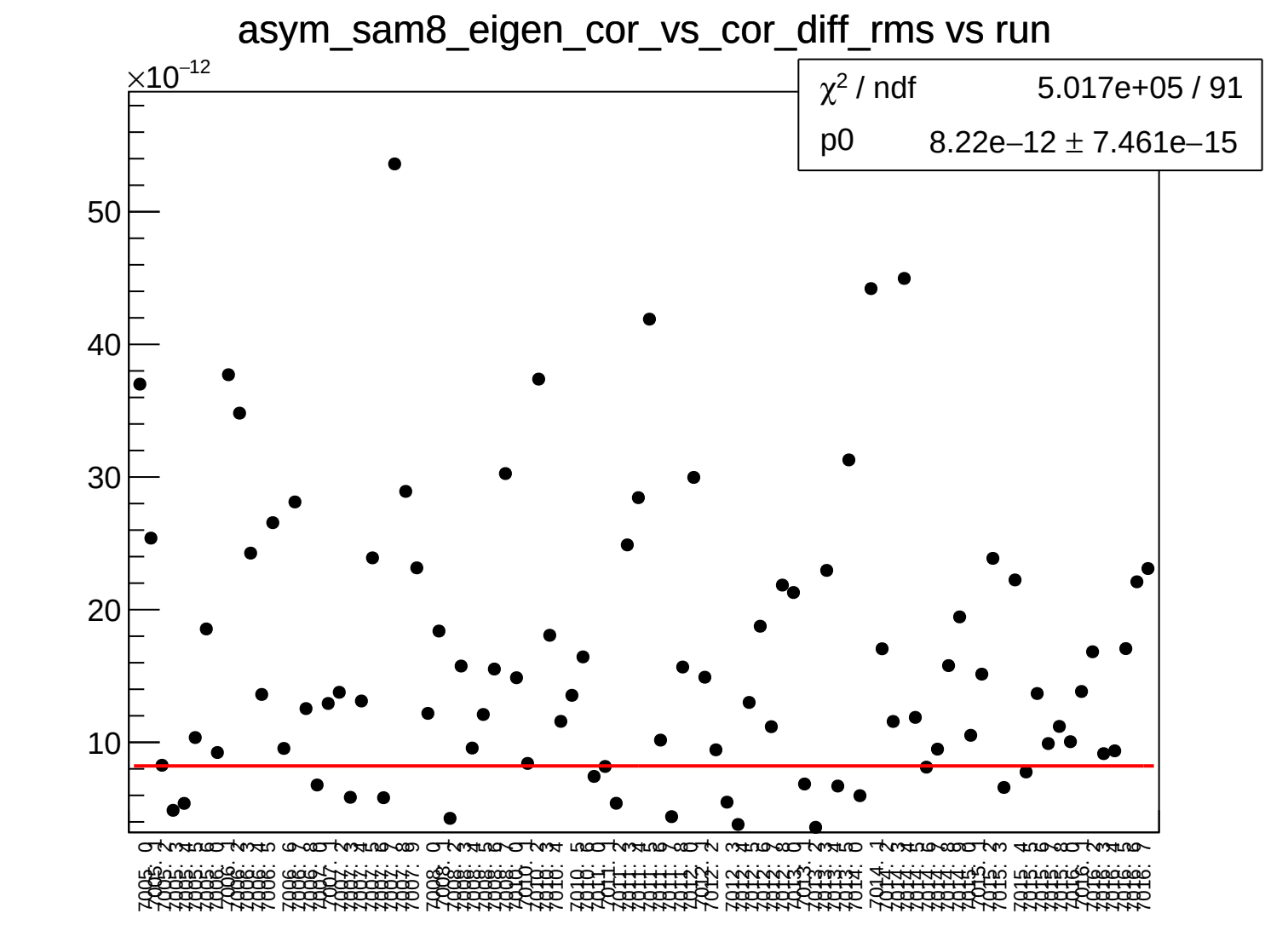

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4385 / 91
p0 21.25 ± 0.01625
25
24
23
22
21
20
19

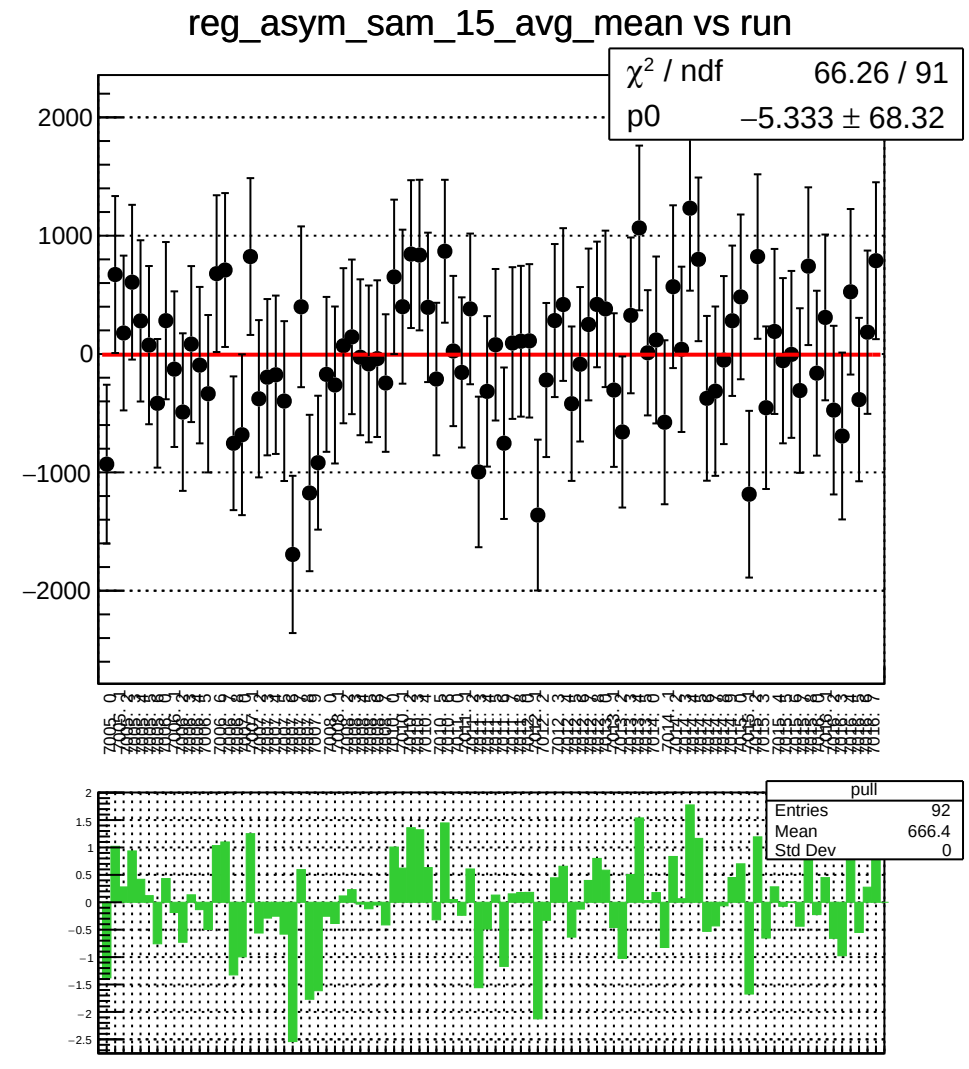

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.06 / 91
p0 −0.03872 ± 0.02297
pull
Entries 92
Mean 187.9
Std Dev 0

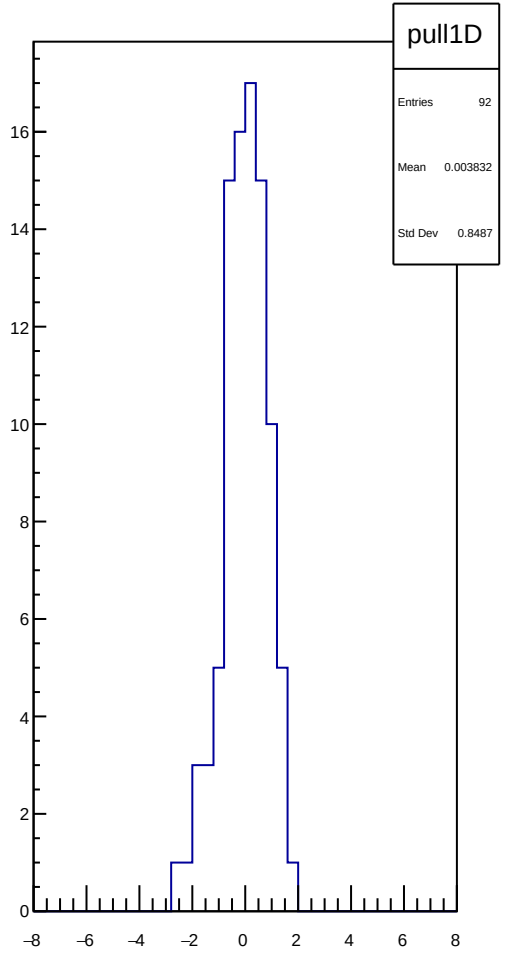

pull1D
Entries 92
Mean 0.00772
Std Dev 1.038

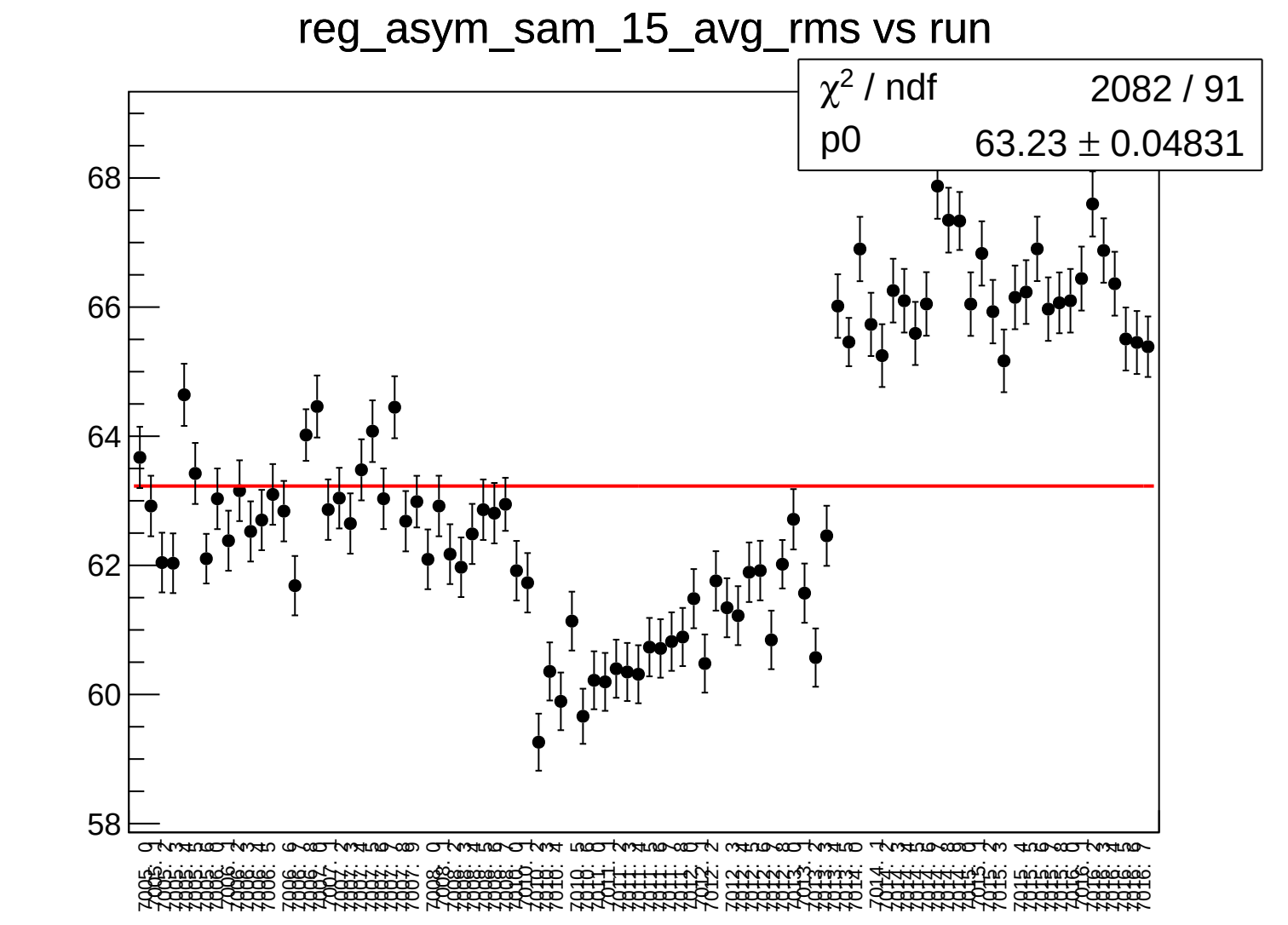

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4385 / 91
p0 21.25 ± 0.01625
25
24
23
22
21
20
19

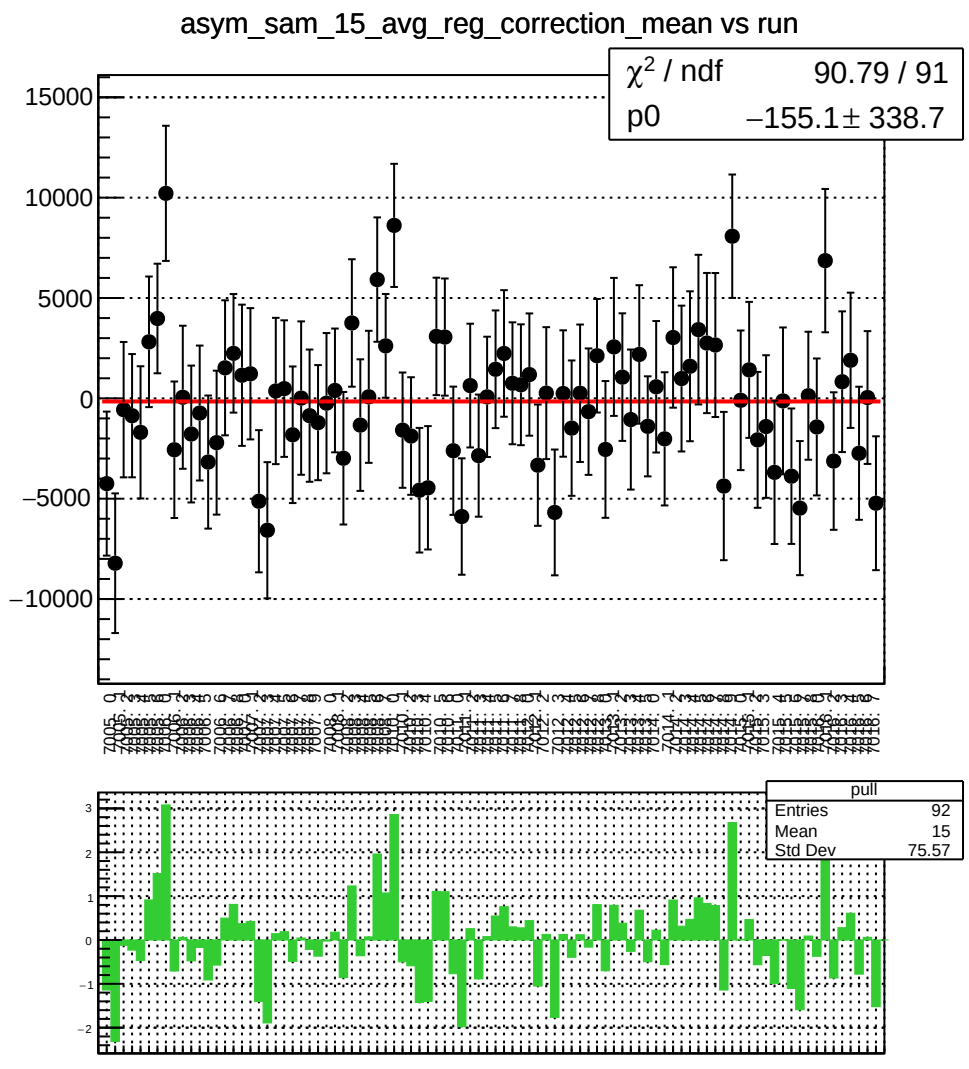

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 106.3 / 91
p0 −1.887e−14 ± 1.055e−14
pull
Entries 92
Mean 18.02
Std Dev 0
pull1D
Entries 92
Mean −0.1153
Std Dev 1.069

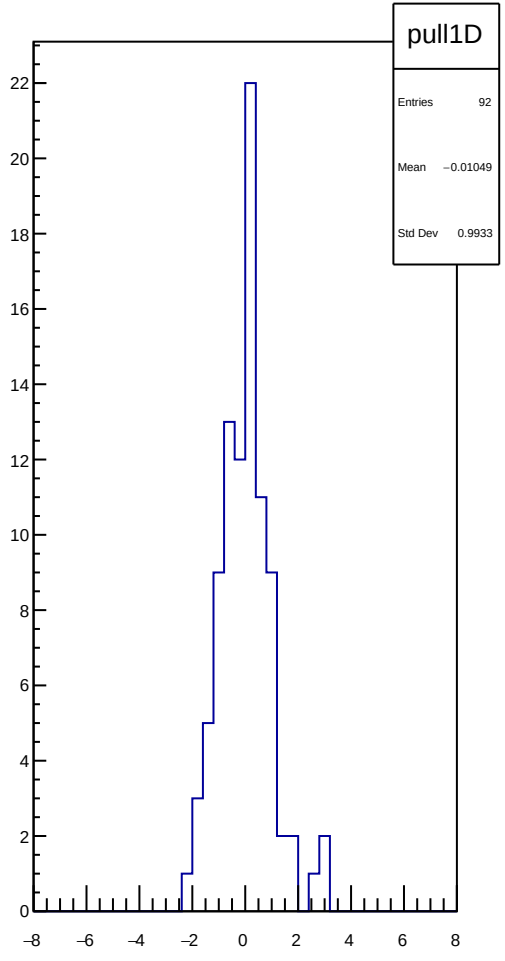

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.017e+05 / 91
p0 8.22e−12 ± 7.461e−15
50
40
30
20
10

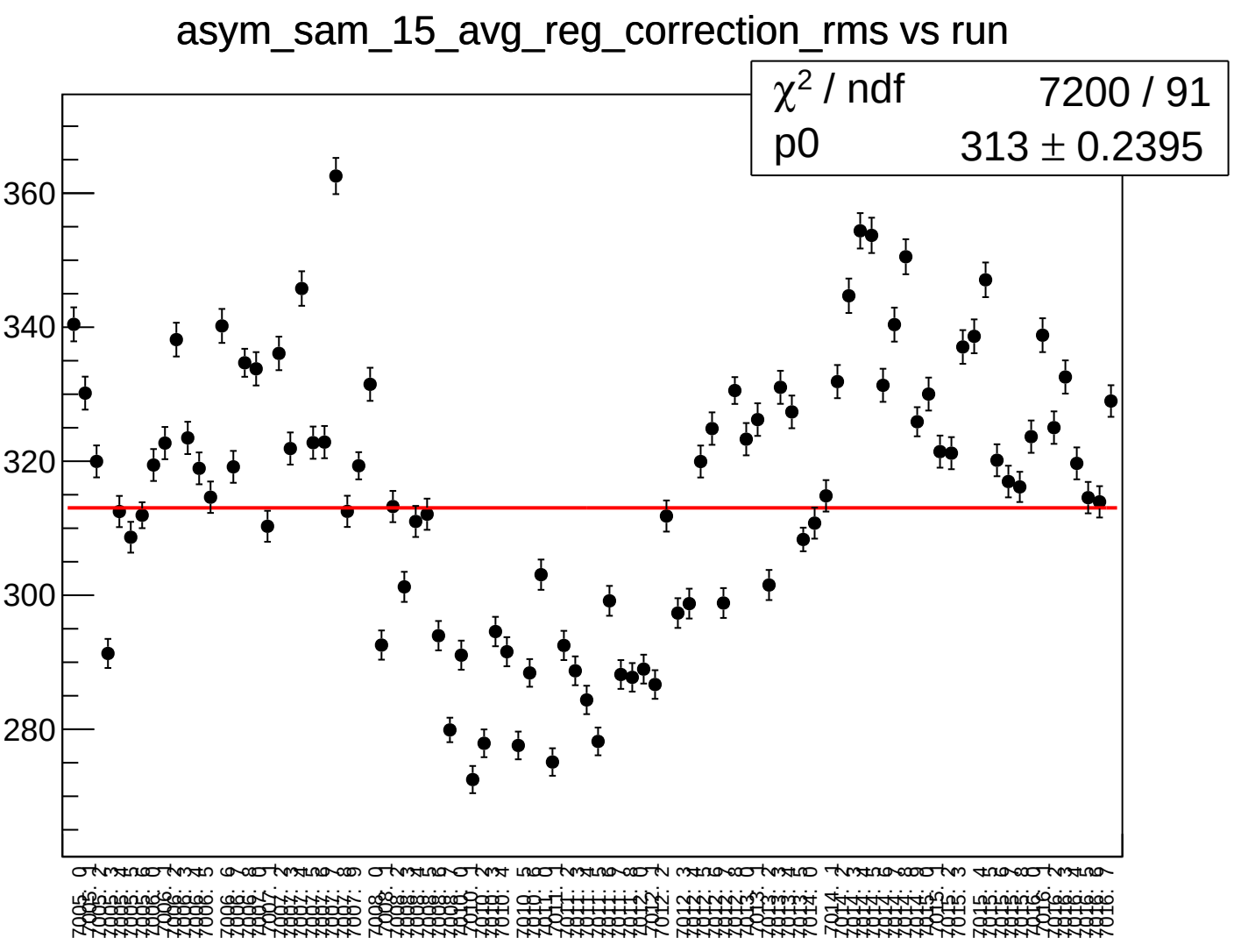

reg_asym_sam_15_avg_mean vs run
χ² / ndf 66.26 / 91
p0 −5.333 ± 68.32
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 666.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

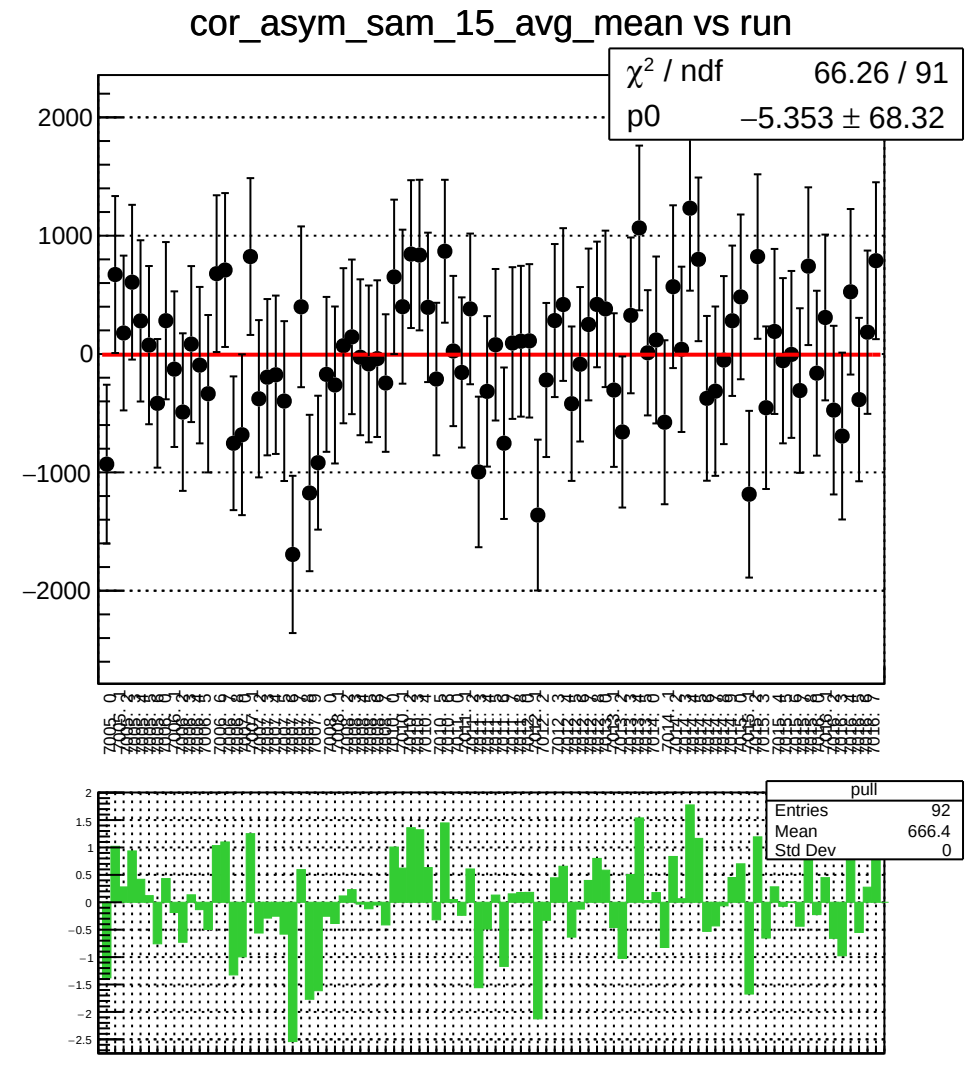

pull1D
Entries 92
Mean 0.003832
Std Dev 0.8487
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

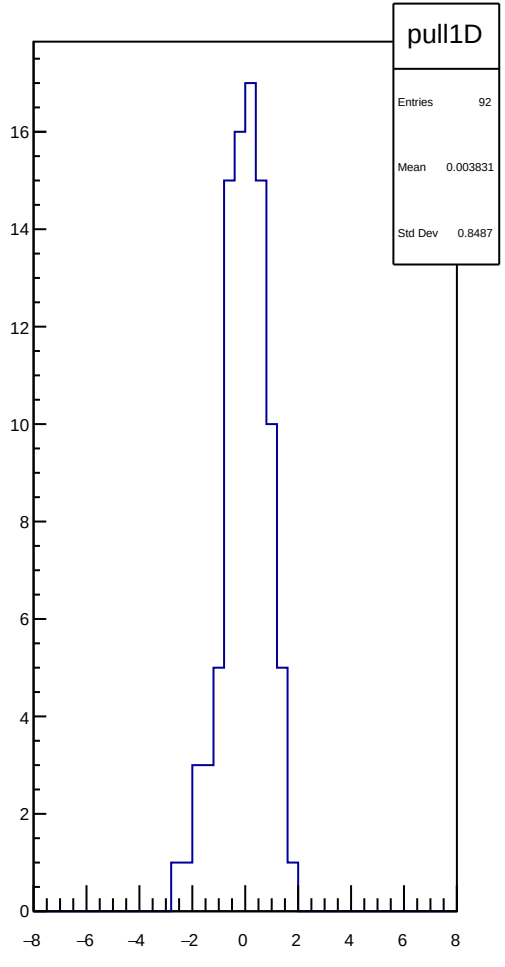

reg_asym_sam_15_avg_rms vs run
χ² / ndf 2082 / 91
p0 63.23 ± 0.04831
68
66
64
62
60
58

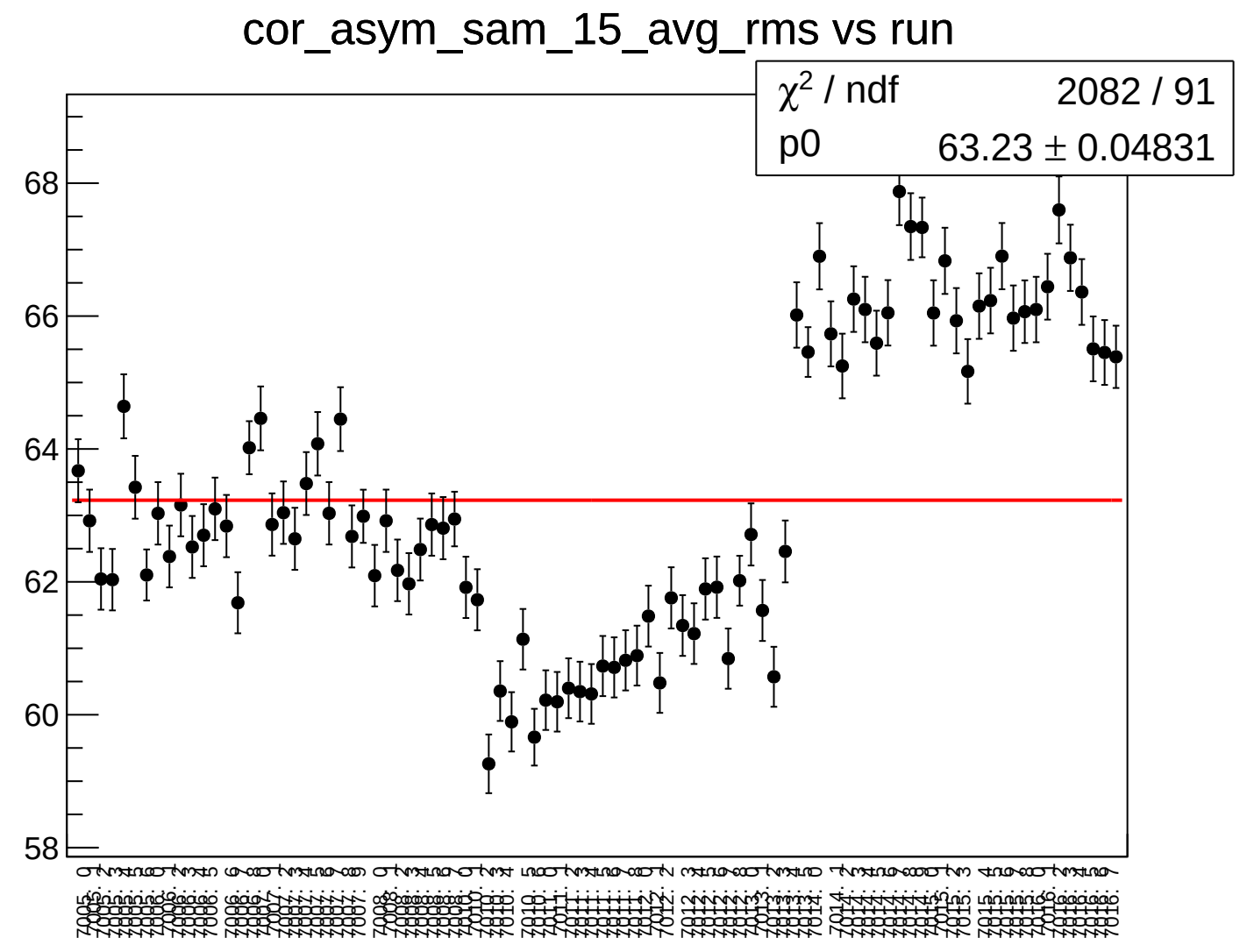

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 90.79 / 91
p0 −155.1± 338.7
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 15
Std Dev 75.57
3
2
1
0
−1
−2

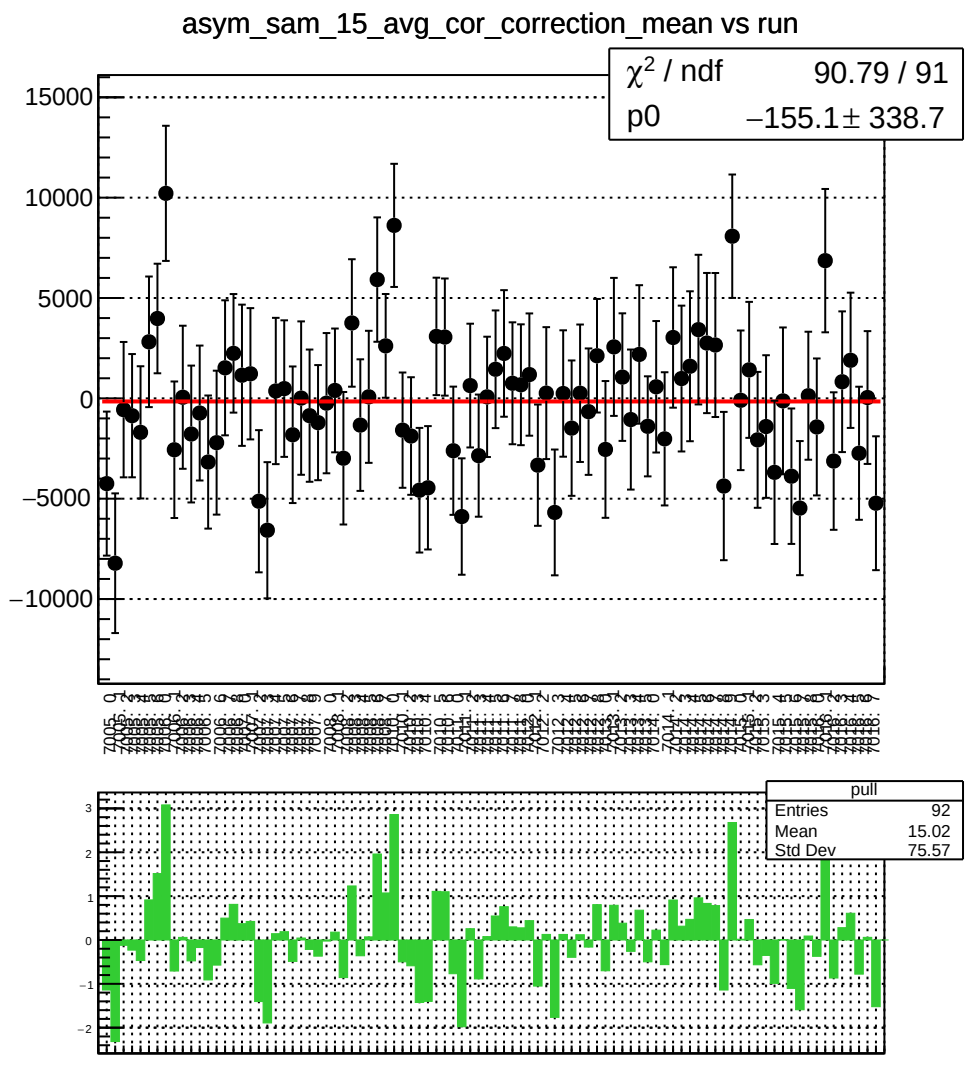

pull1D
Entries 92
Mean −0.01049
Std Dev 0.9933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

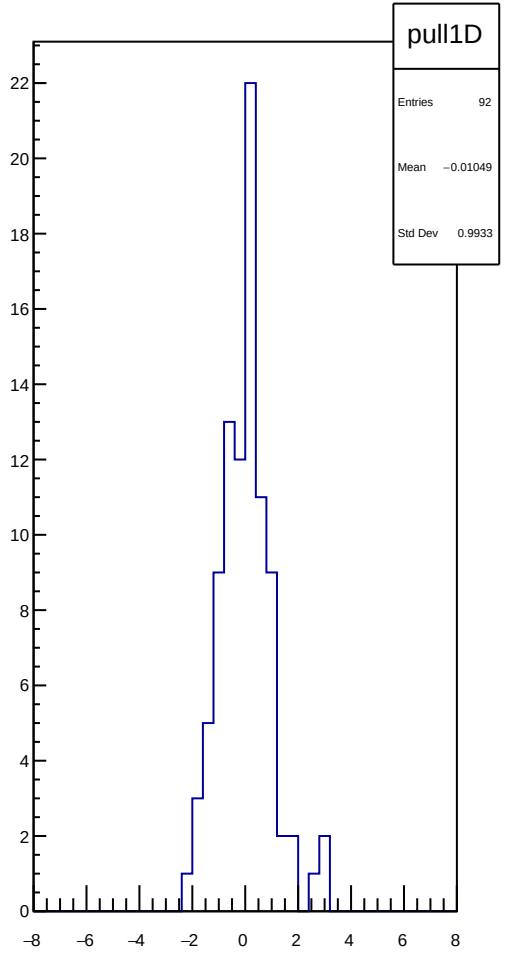

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 7200 / 91
p0 313 ± 0.2395
360
340
320
300
280

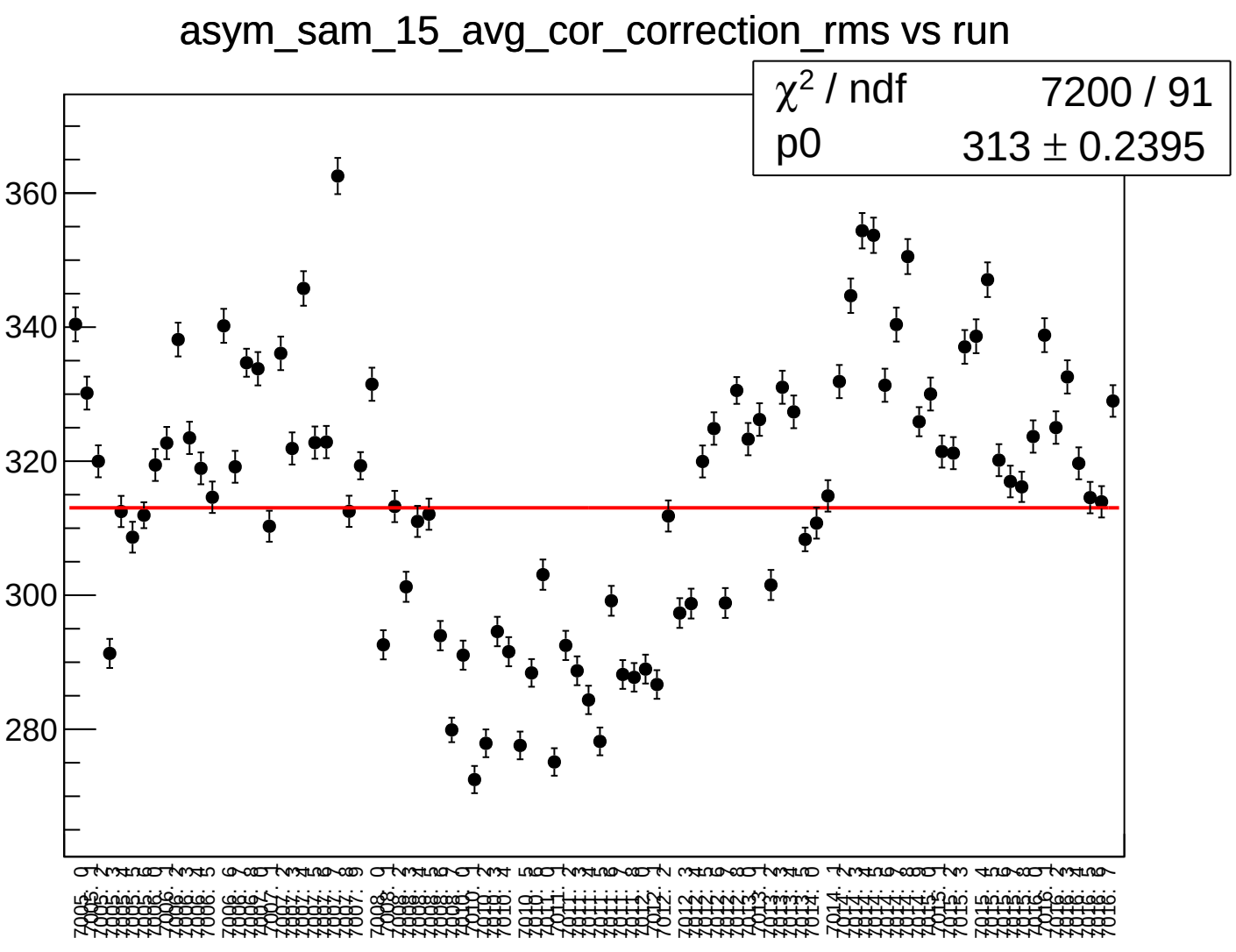

cor_asym_sam_15_avg_mean vs run
χ² / ndf 66.26 / 91
p0 −5.353 ± 68.32
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 666.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

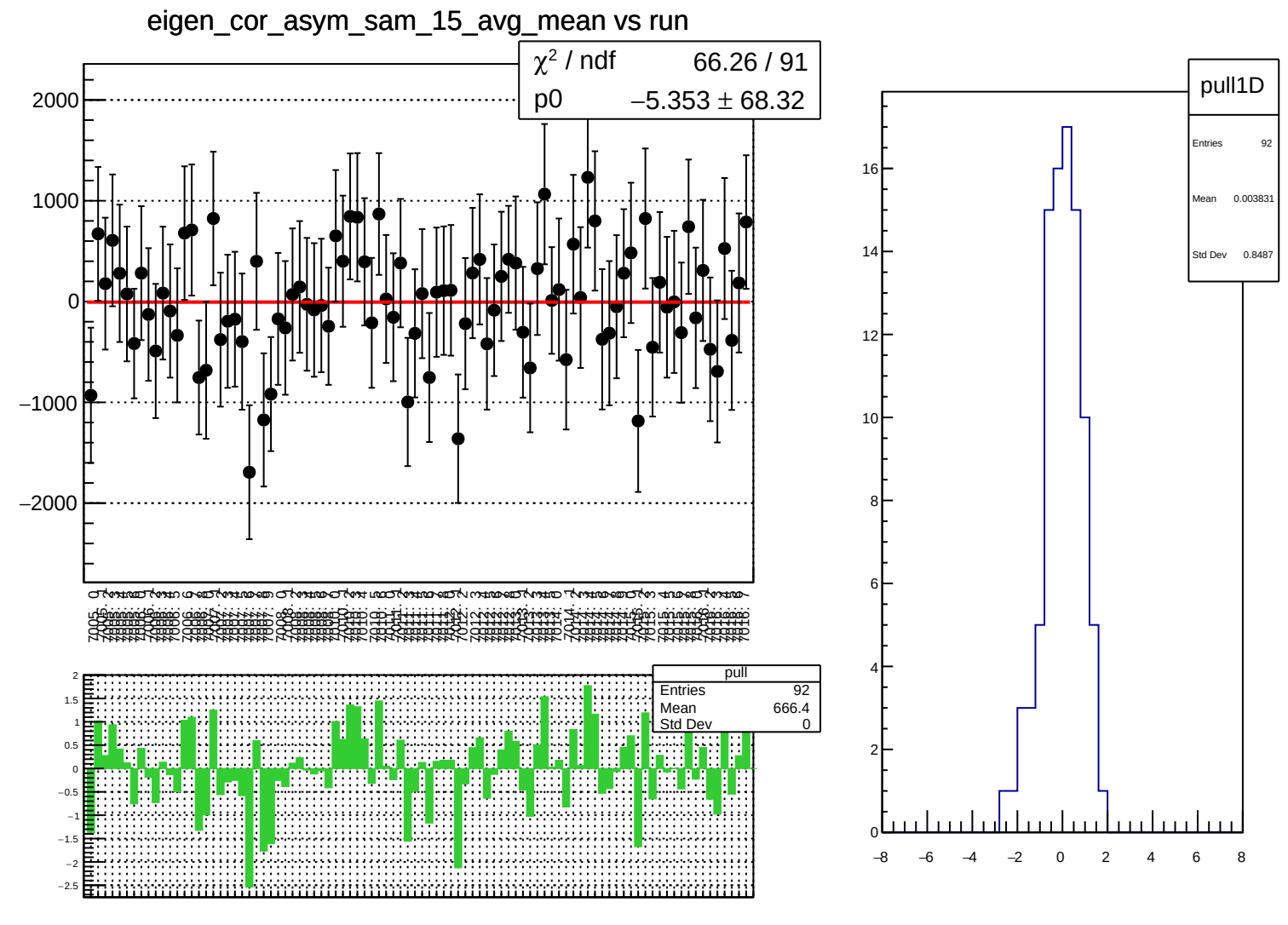

pull1D
Entries 92
Mean 0.003831
Std Dev 0.8487
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

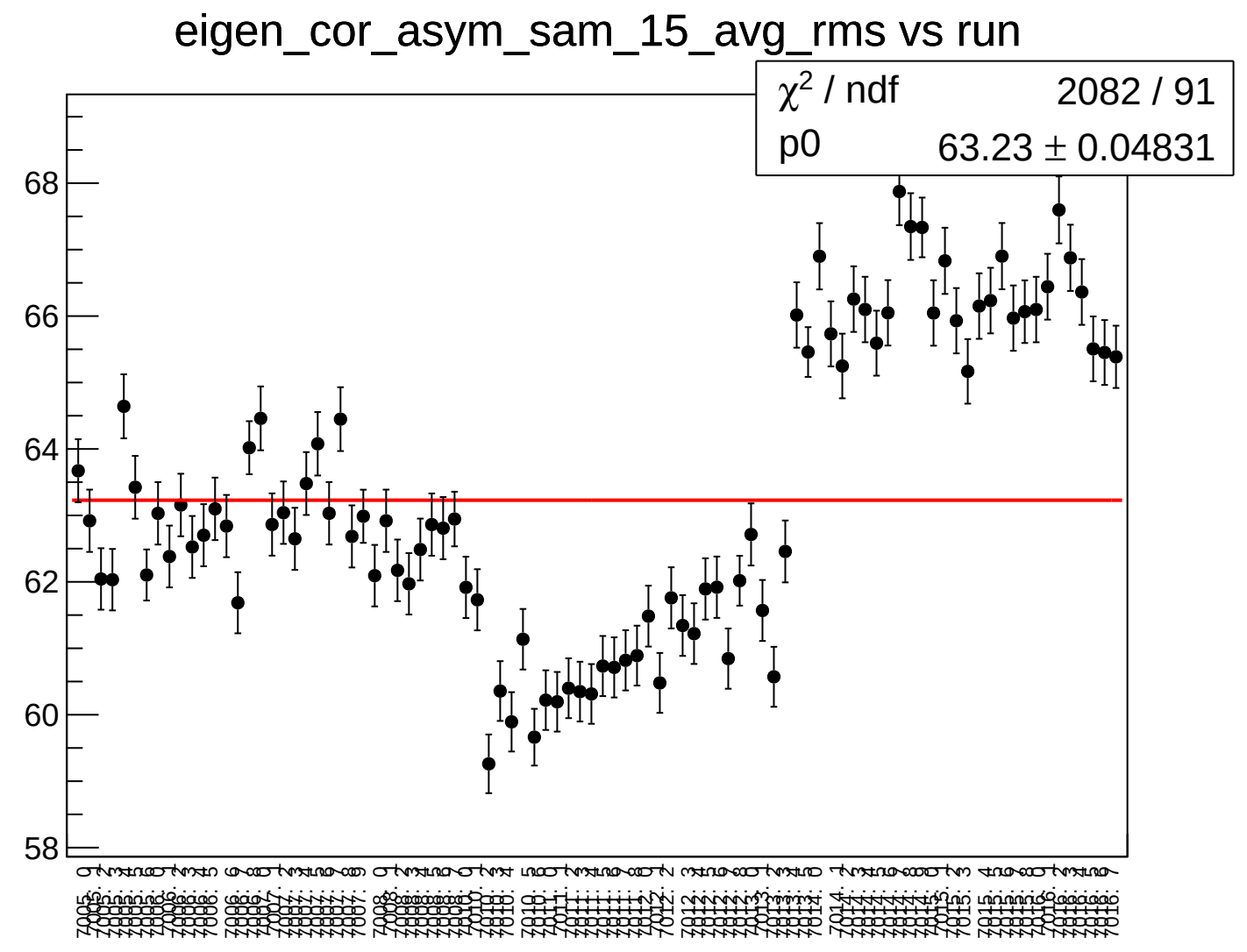

cor_asym_sam_15_avg_rms vs run
χ² / ndf 2082 / 91
p0 63.23 ± 0.04831
68
66
64
62
60
58

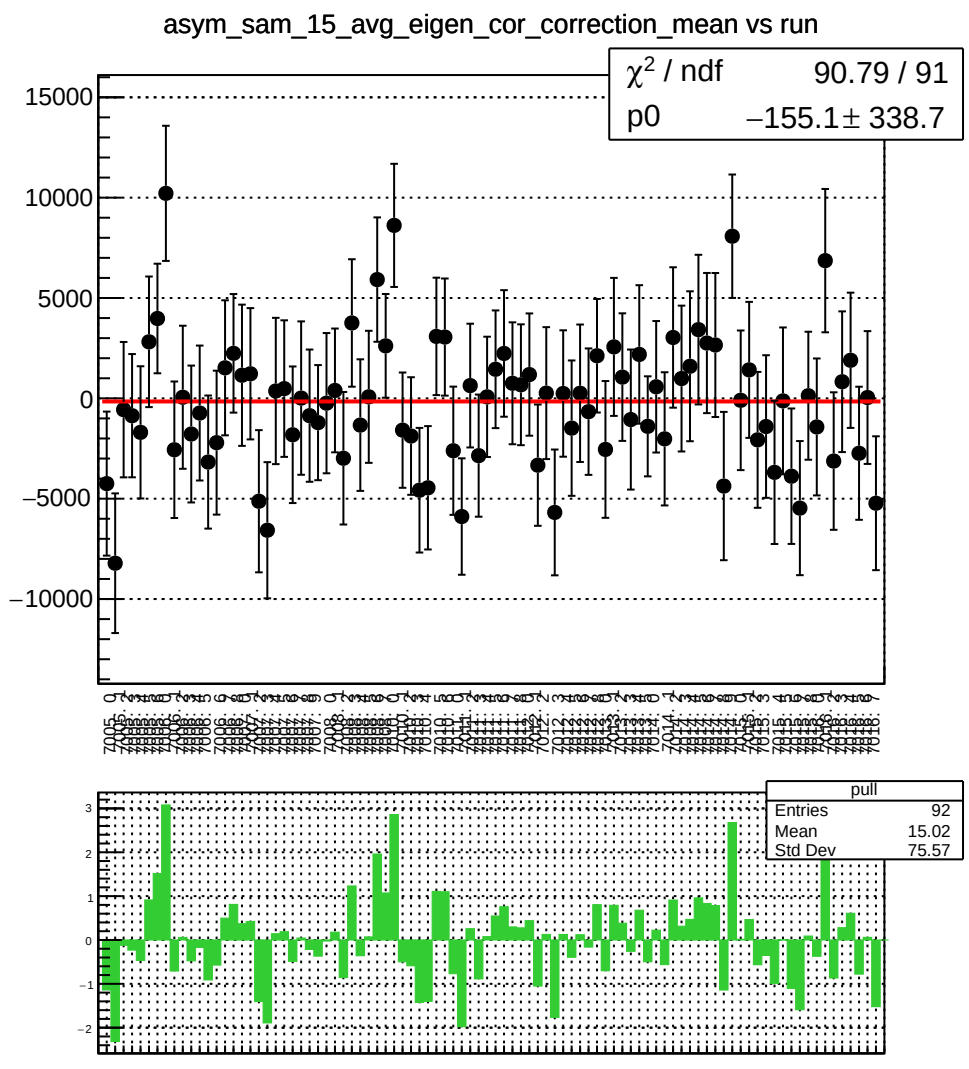

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 90.79 / 91
p0 −155.1± 338.7
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 15.02
Std Dev 75.57
3
2
1
0
−1
−2

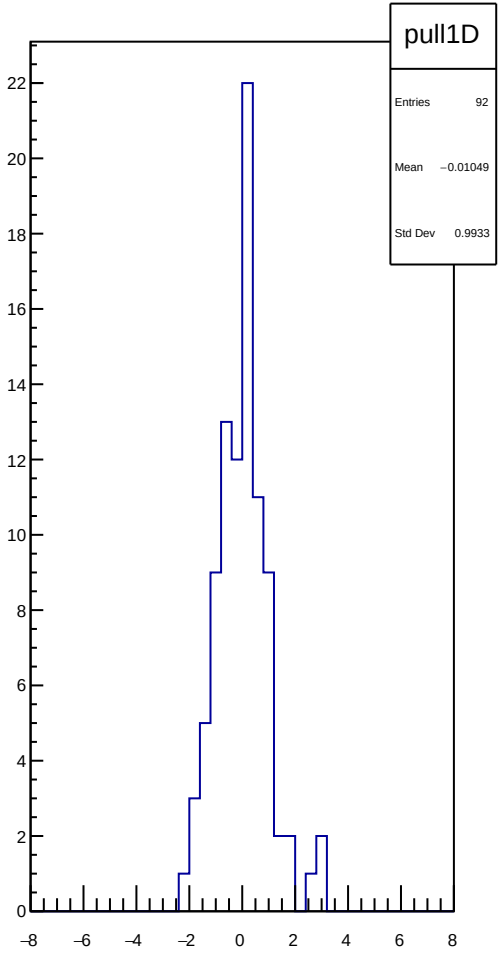

pull1D
Entries 92
Mean −0.01049
Std Dev 0.9933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

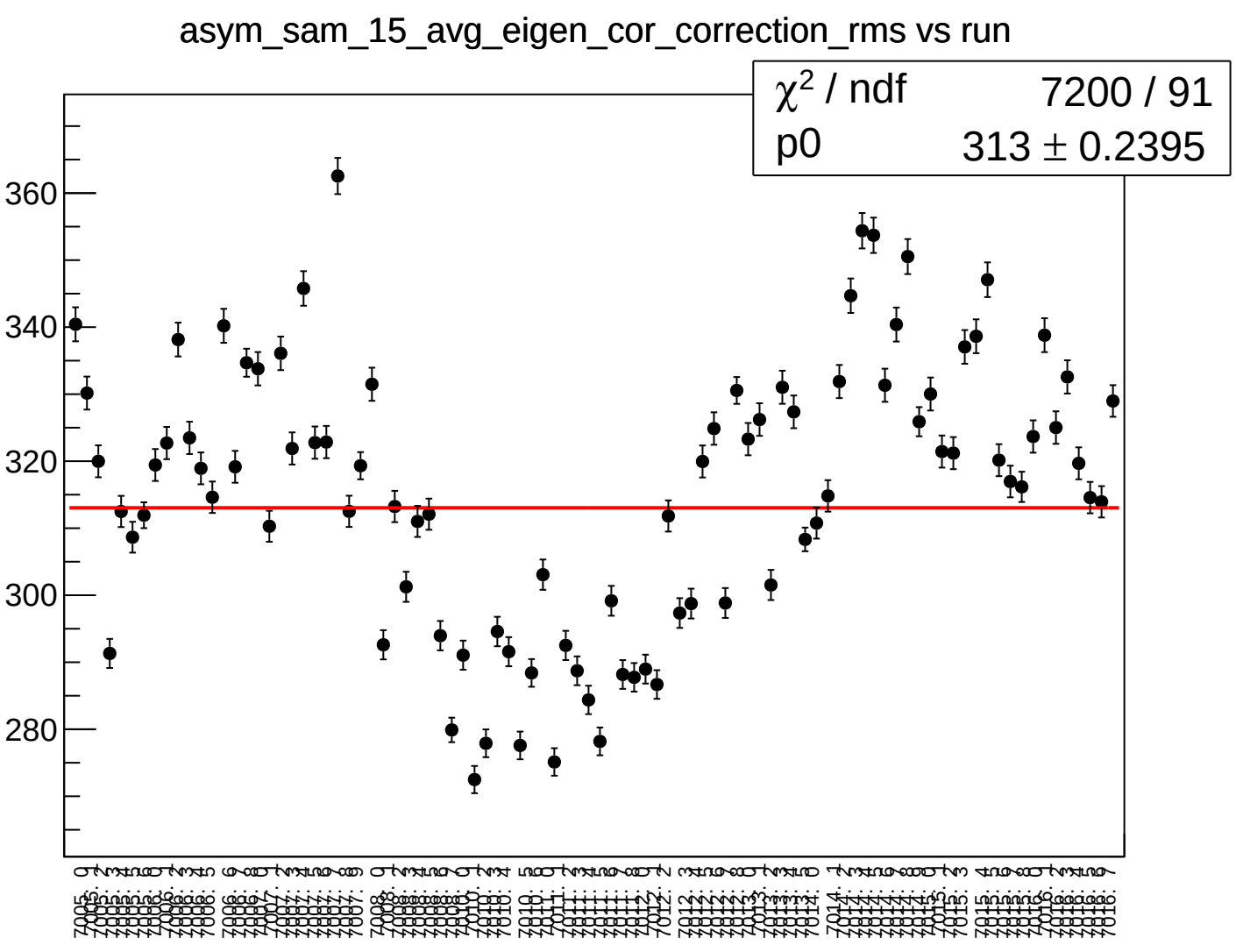

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 7200 / 91
p0 313 ± 0.2395
360
340
320
300
280

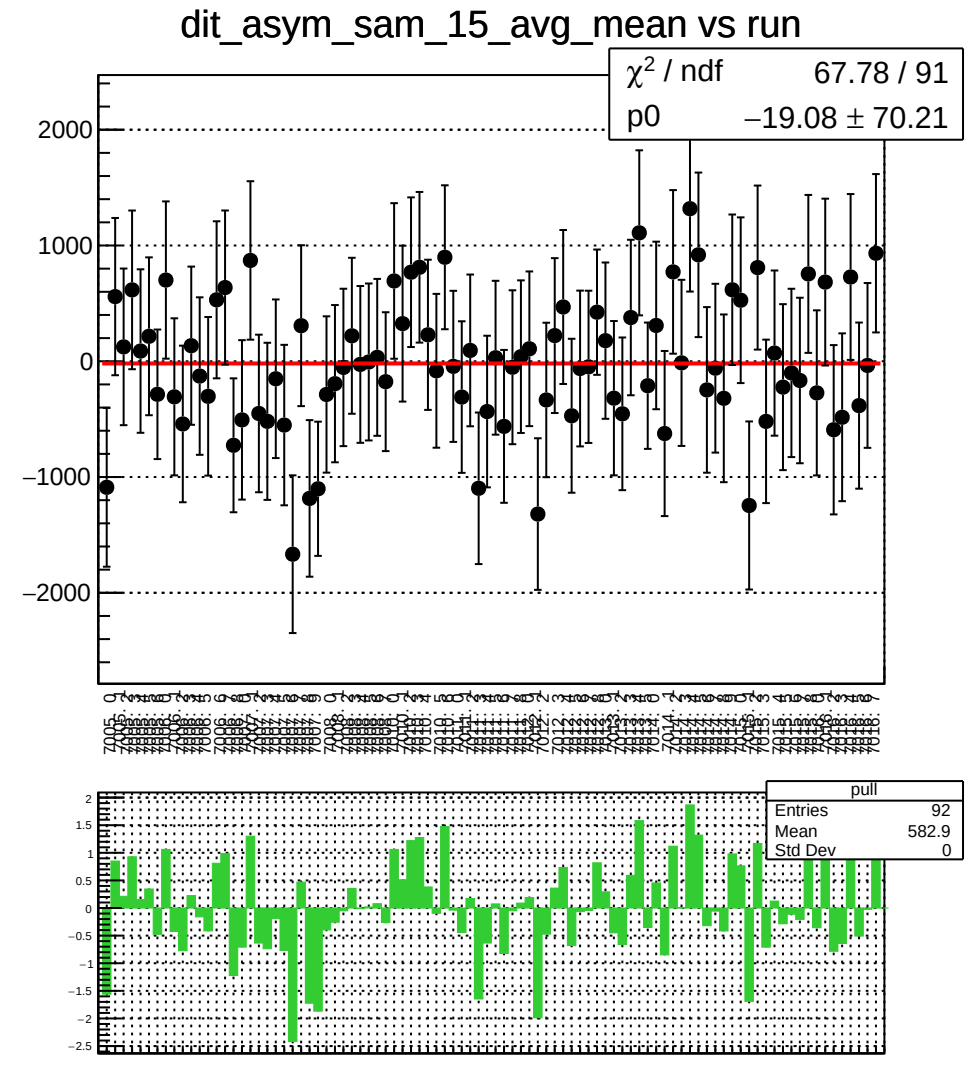

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 66.26 / 91
p0 −5.353 ± 68.32
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 666.4
Std Dev 0
pull1D
Entries 92
Mean 0.003831
Std Dev 0.8487

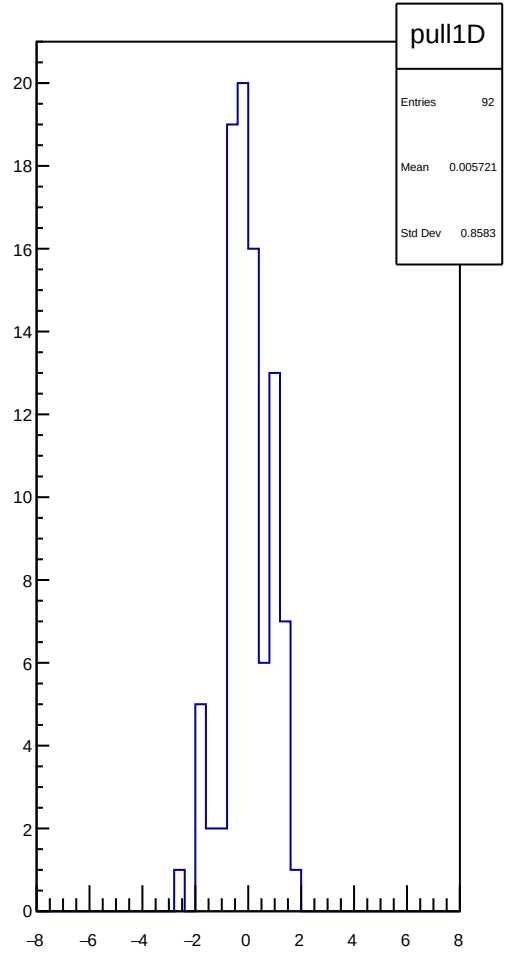

eigen_cor_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 2082 / 91
p0 63.23 ± 0.04831
68
66
64
62
60
58

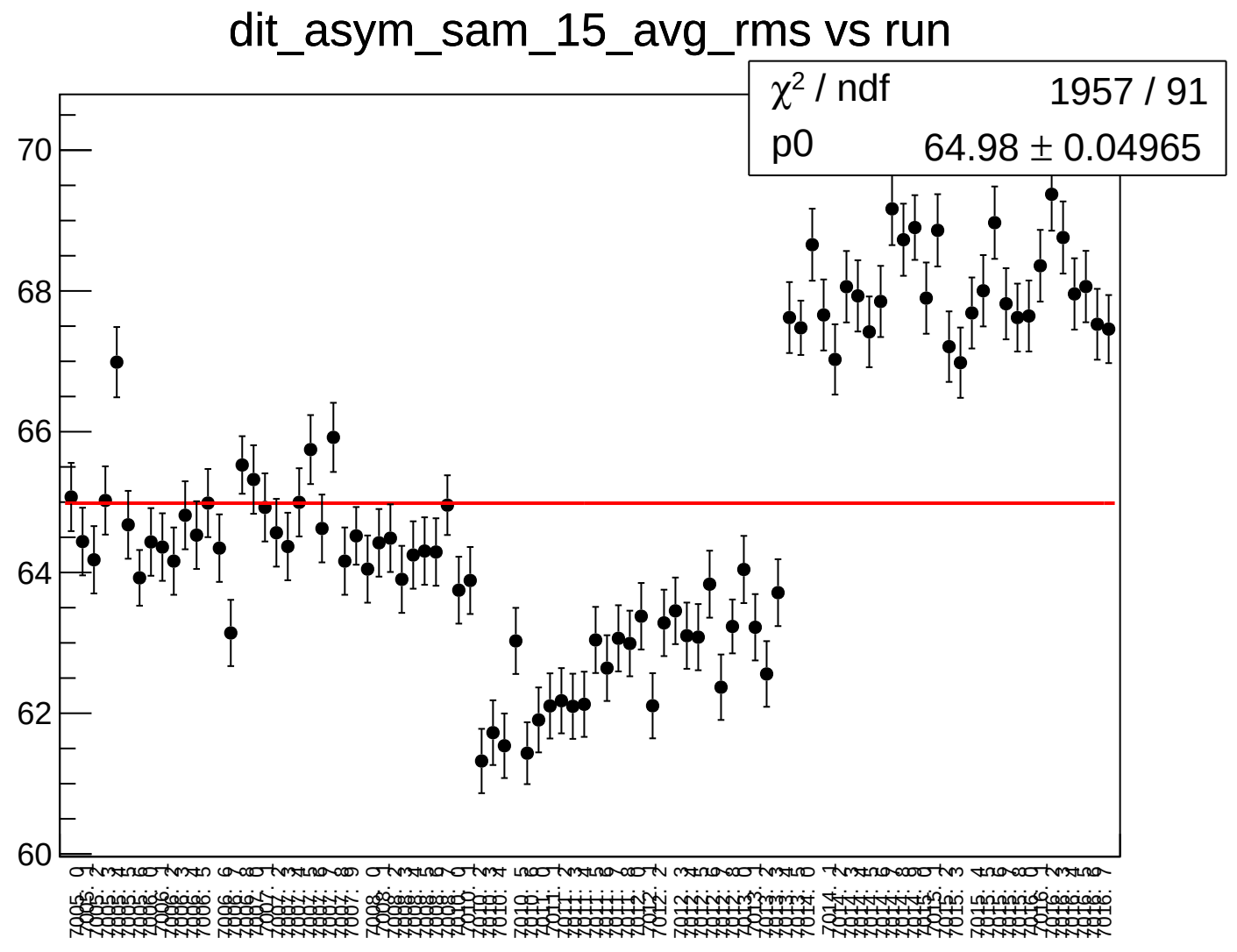

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.79 / 91
p0 −155.1± 338.7
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 15.02
Std Dev 75.57
3
2
1
0
−1
−2

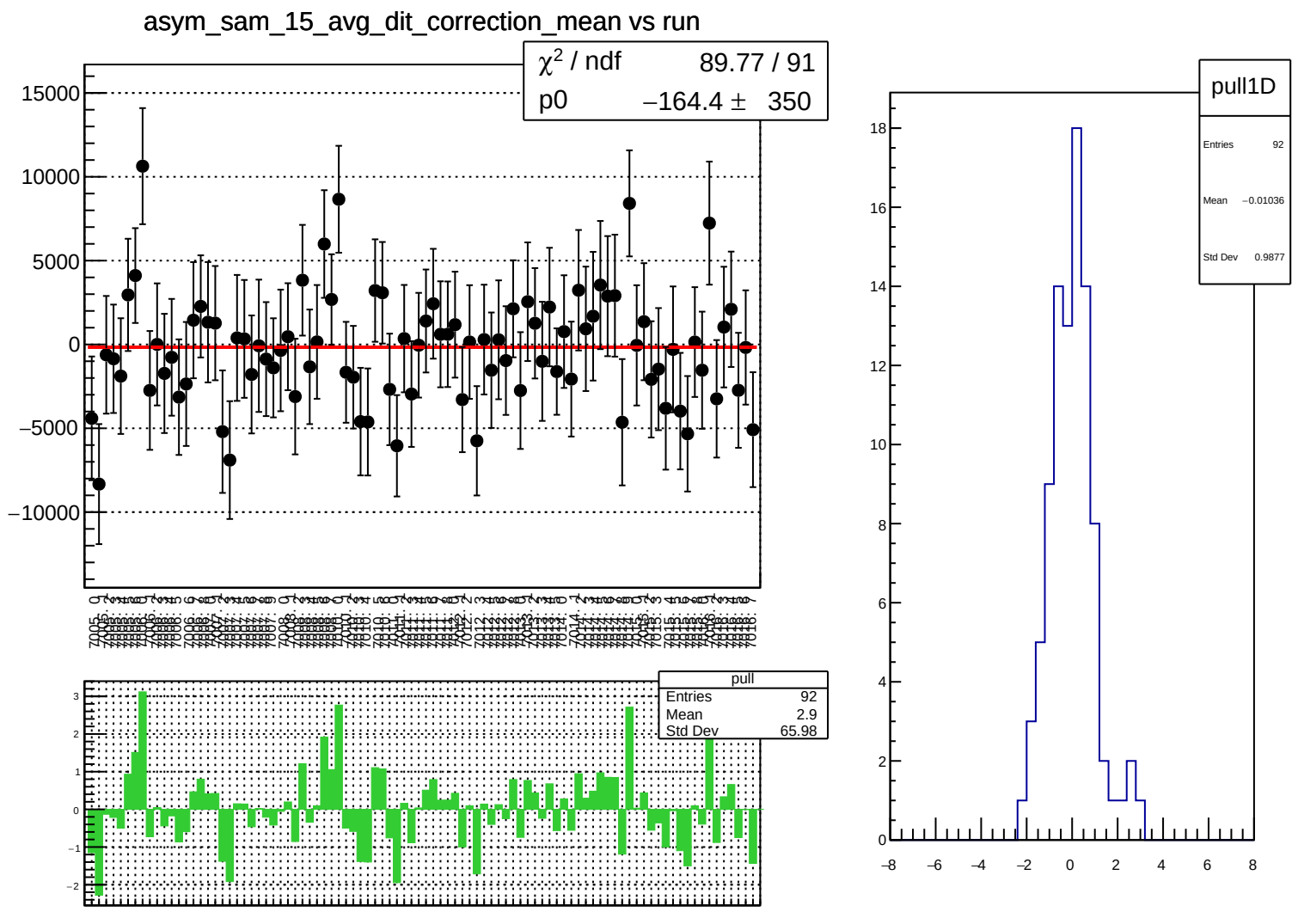

pull1D
Entries 92
Mean −0.01049
Std Dev 0.9933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

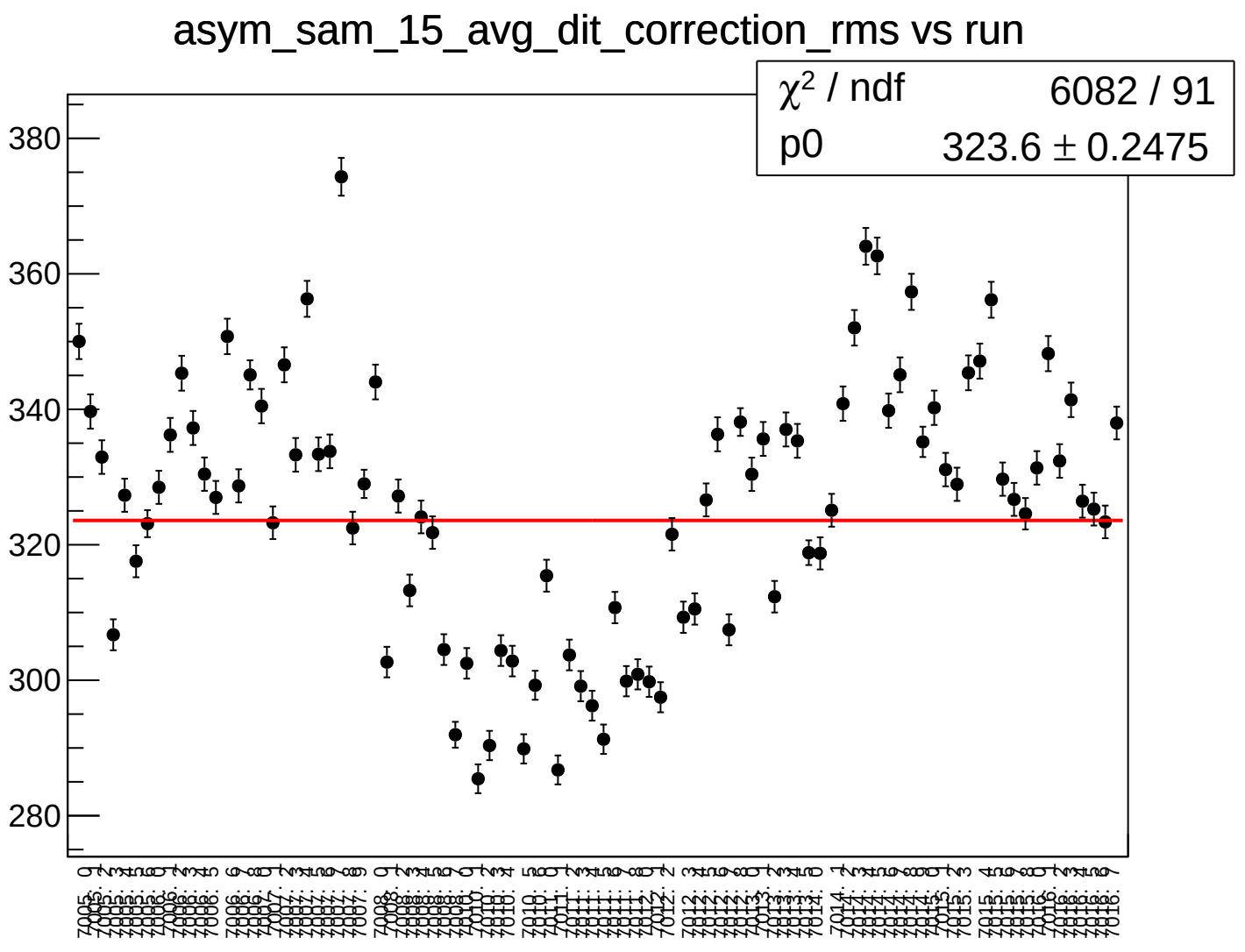

asym_sam_15_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 7200 / 91
p0 313 ± 0.2395
360
340
320
300
280

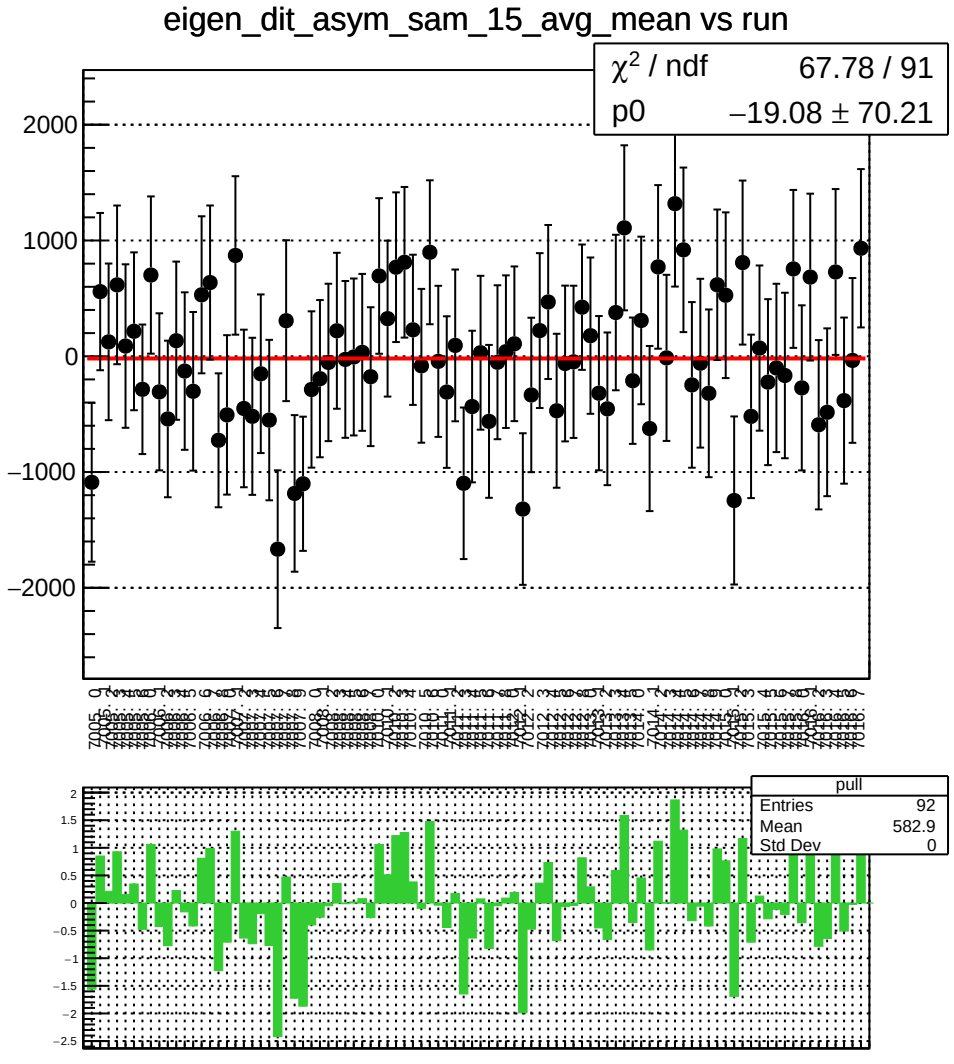

dit_asym_sam_15_avg_mean vs run
χ² / ndf 67.78 / 91
p0 −19.08 ± 70.21
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 582.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

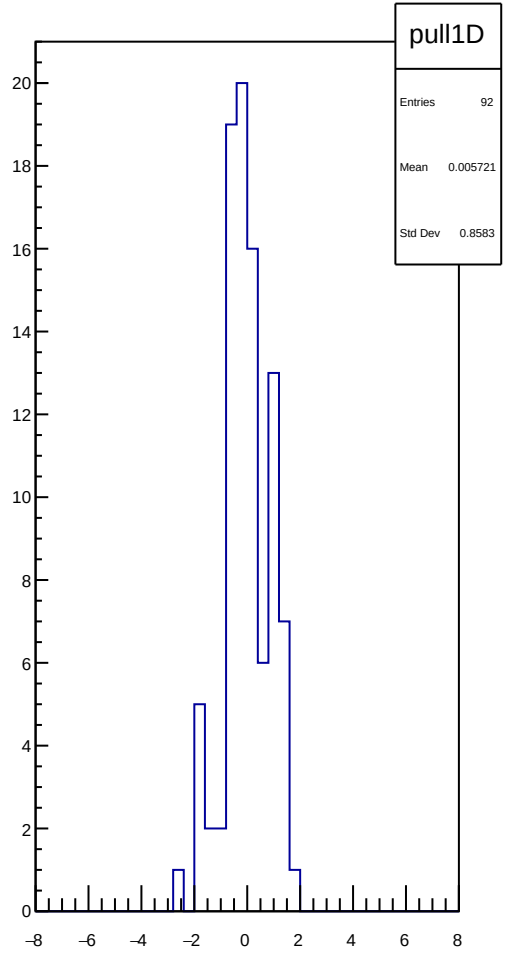

pull1D
Entries 92
Mean 0.005721
Std Dev 0.8583
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

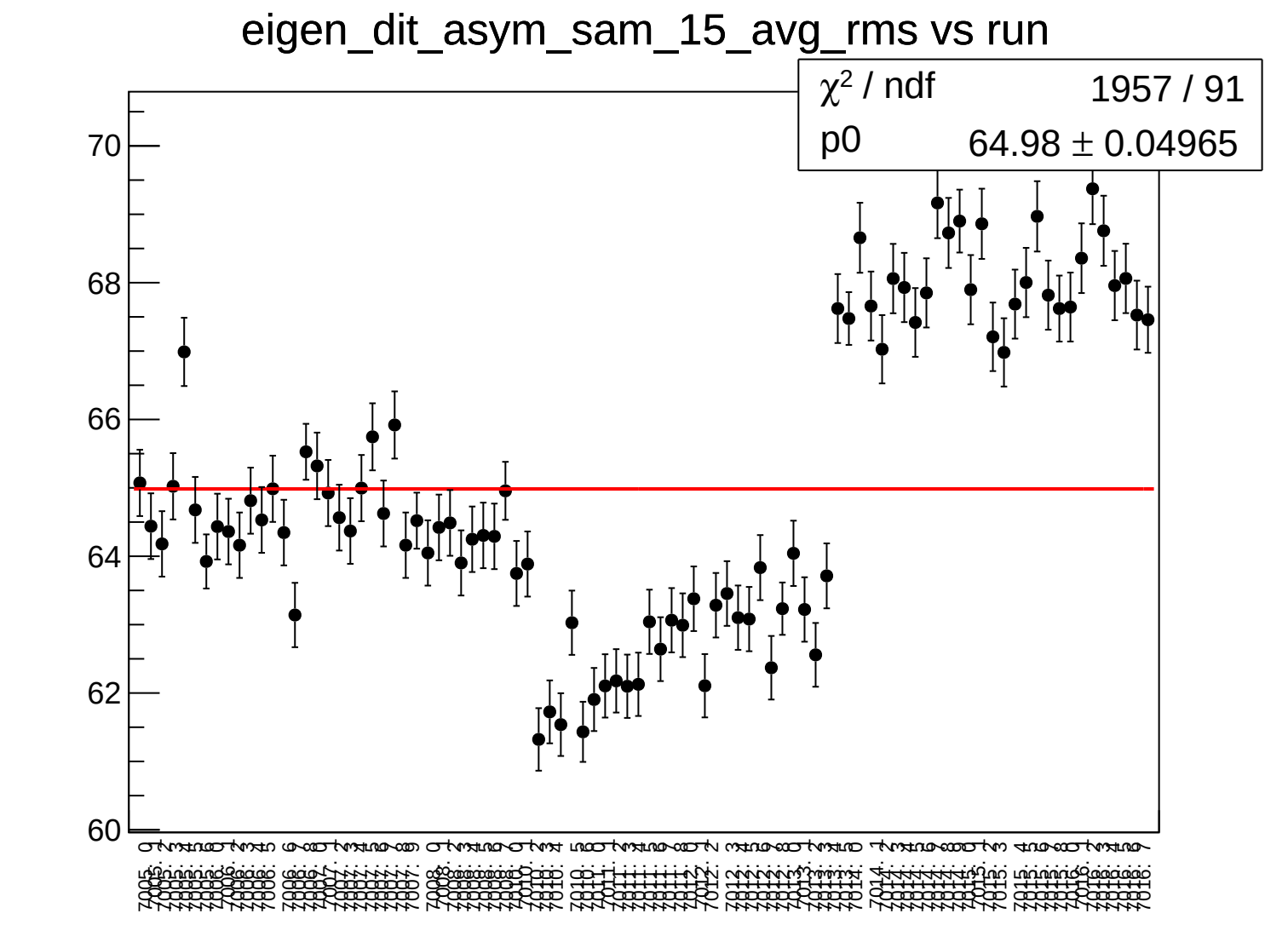

dit_asym_sam_15_avg_rms vs run
χ² / ndf 1957 / 91
p0 64.98 ± 0.04965
70
68
66
64
62
60

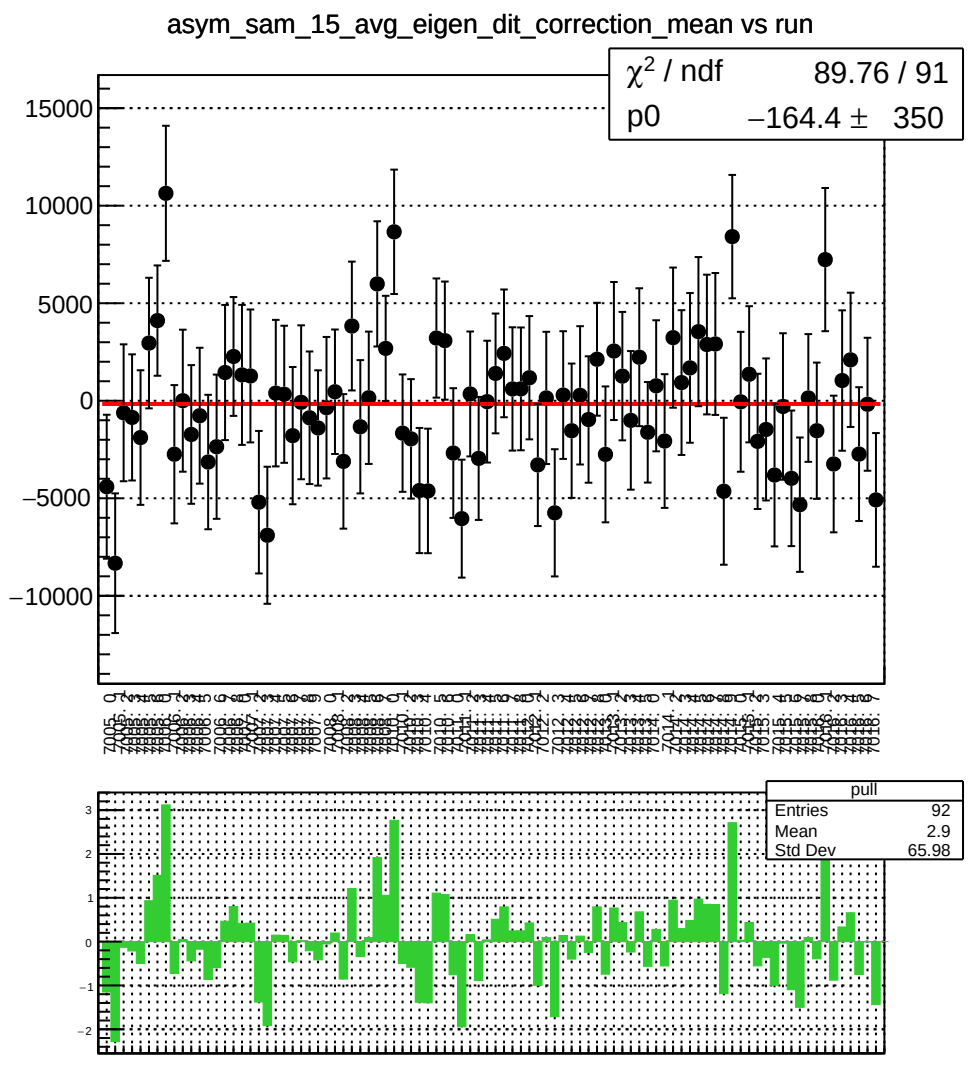

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 89.77 / 91
p0 −164.4 ± 350
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 2.9
Std Dev 65.98
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01036
Std Dev 0.9877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

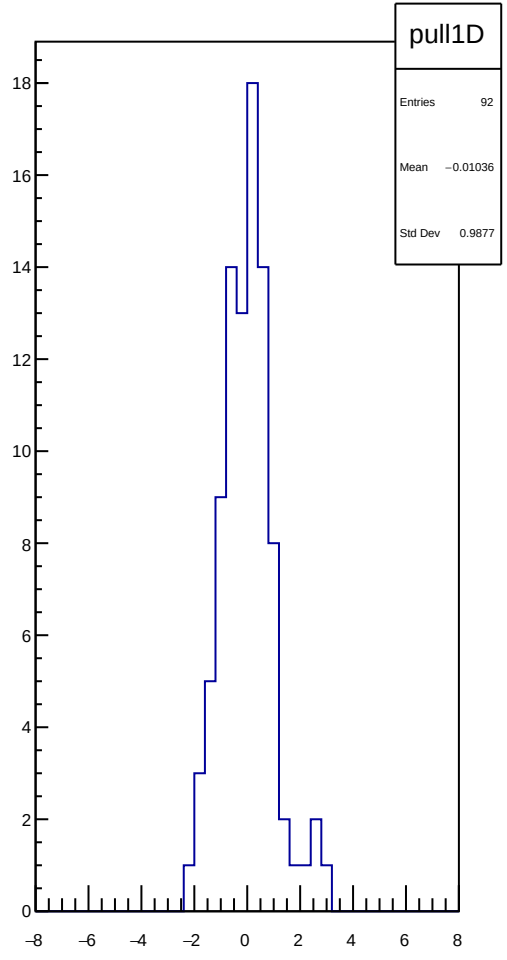

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 6082 / 91
p0 323.6 ± 0.2475
380
360
340
320
300
280

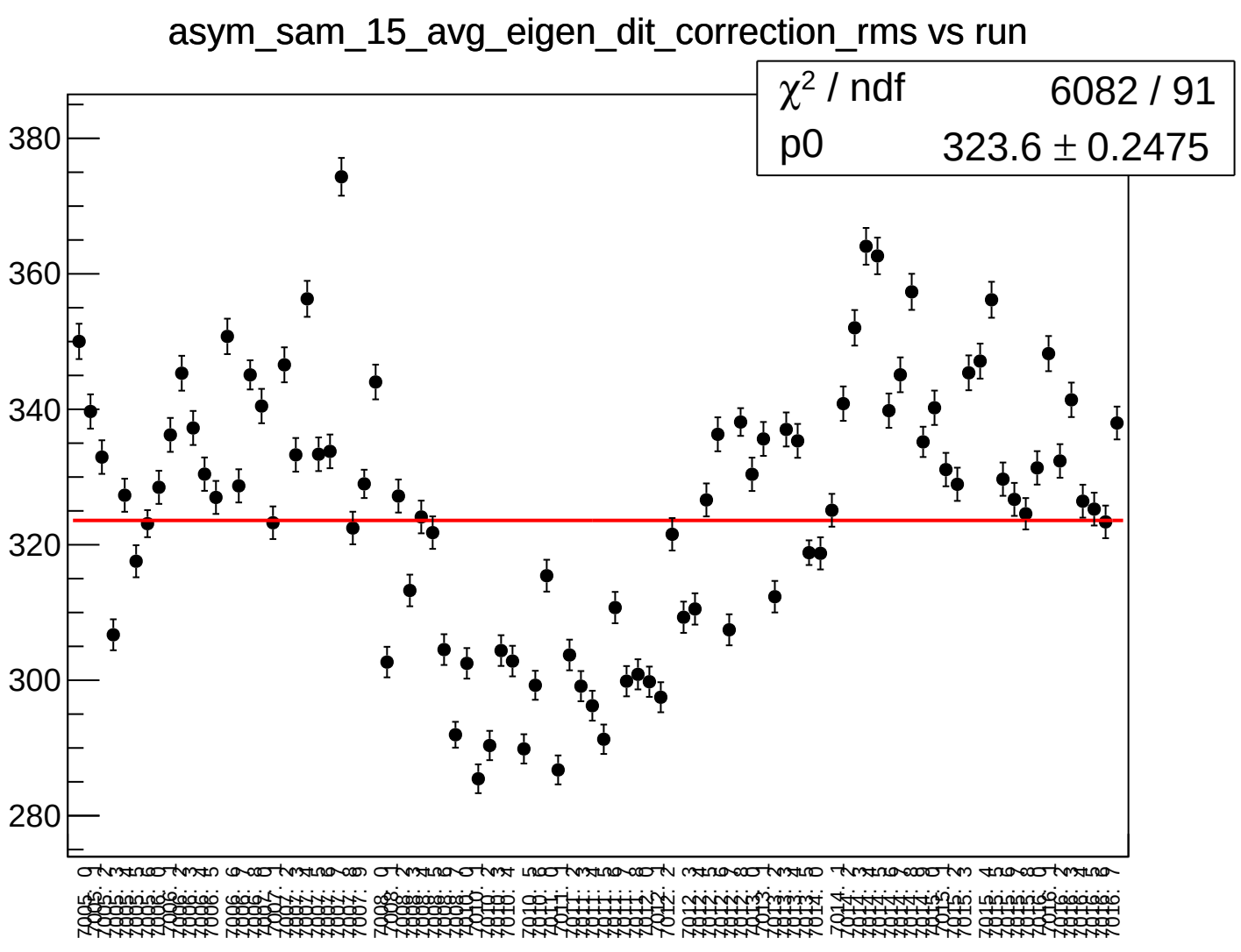

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 67.78 / 91
p0 −19.08 ± 70.21
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 582.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

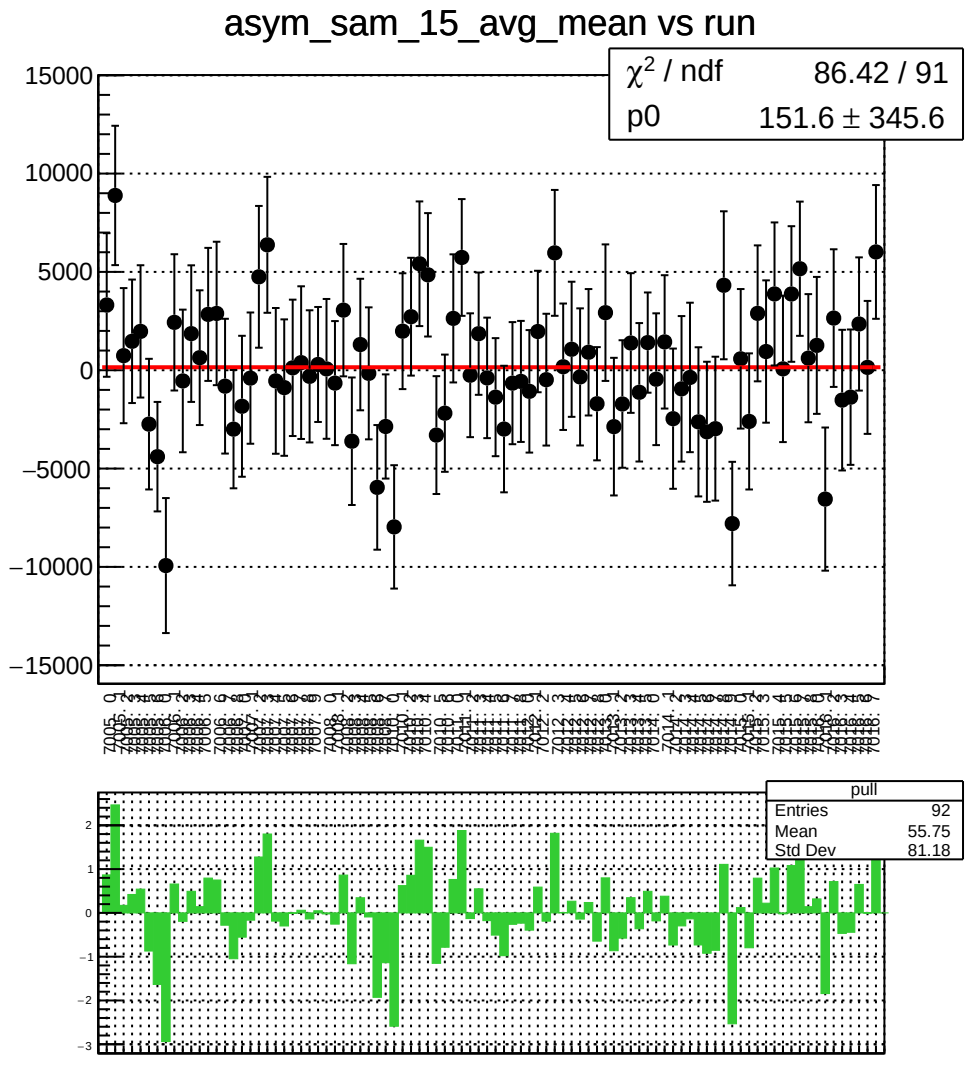

pull1D
Entries 92
Mean 0.005721
Std Dev 0.8583
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

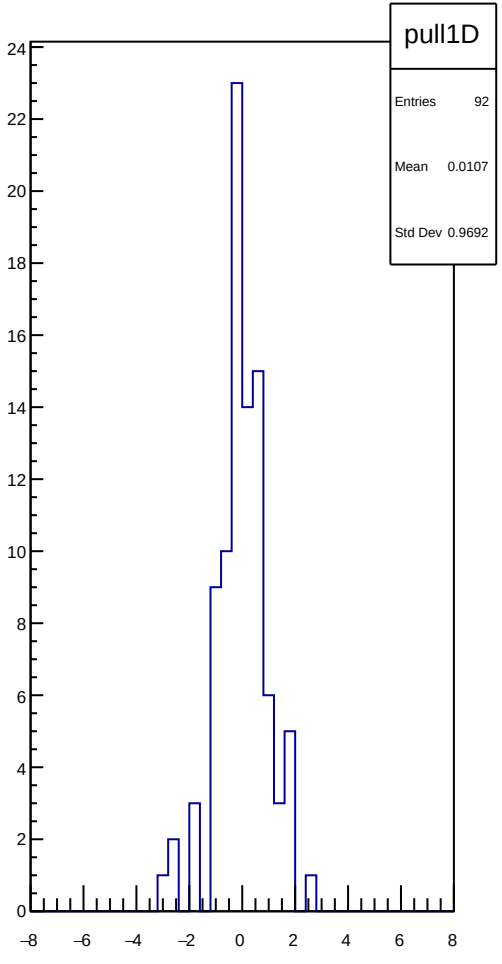

eigen_dit_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 1957 / 91
p0 64.98 ± 0.04965
70
68
66
64
62
60

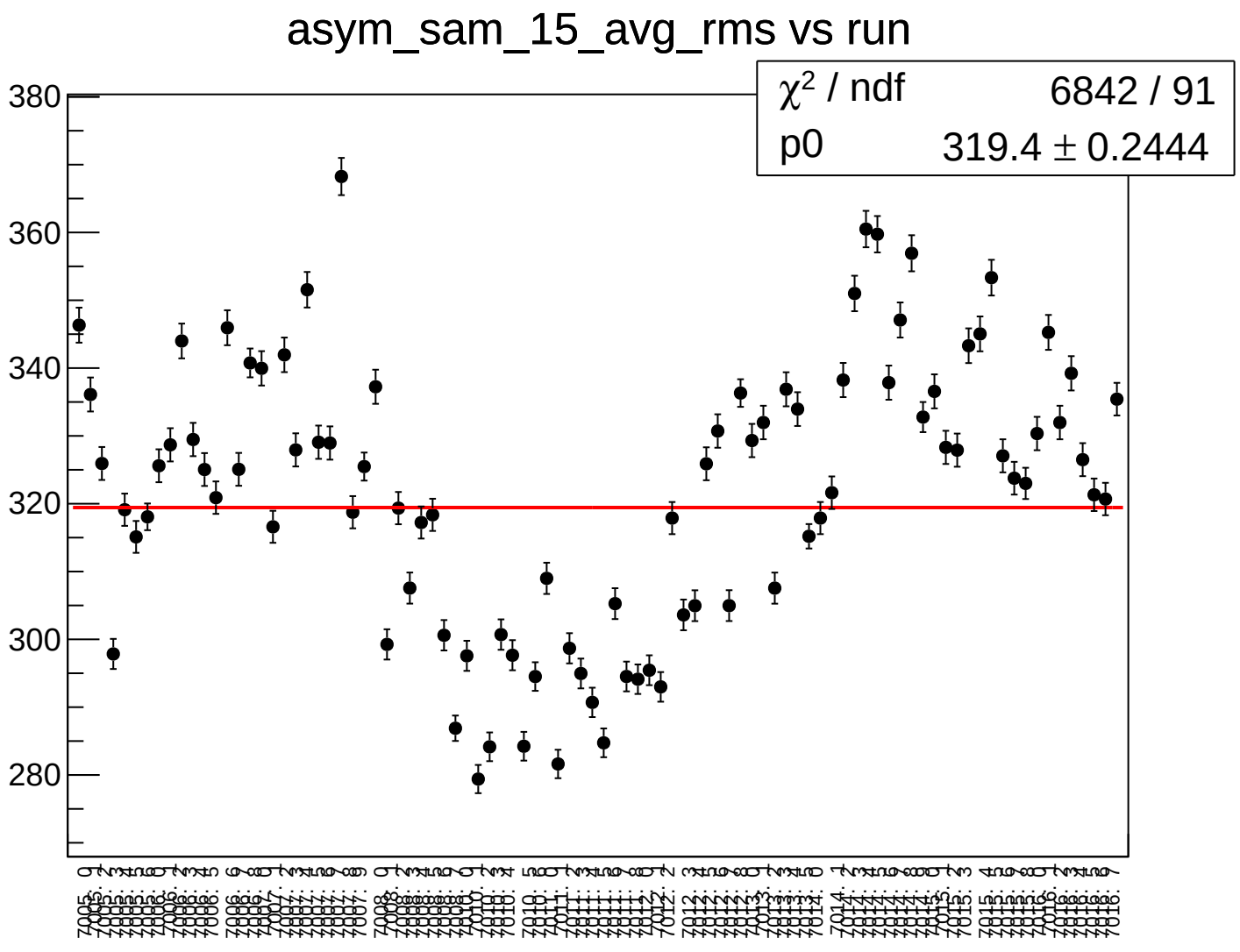

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.76 / 91
p0 −164.4 ± 350
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 2.9
Std Dev 65.98
3
2
1
0
−1
−2

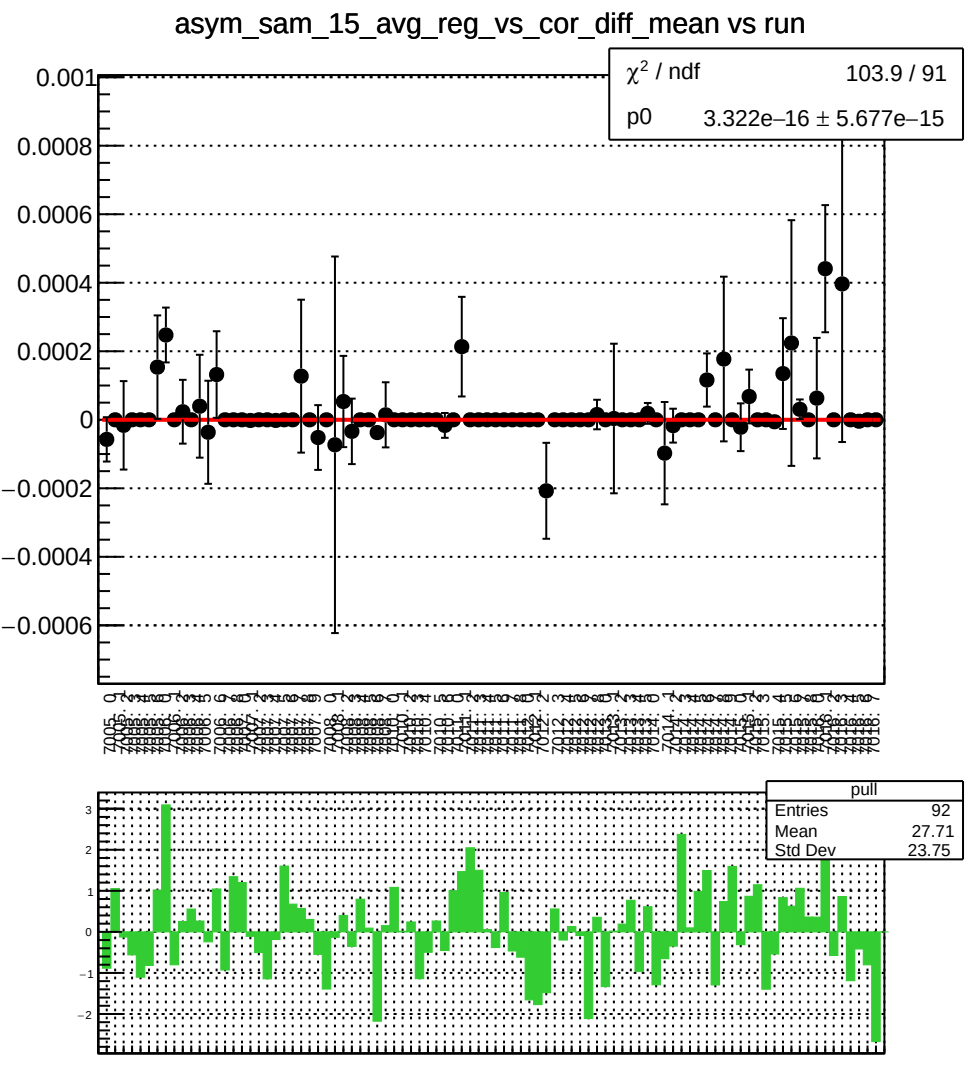

pull1D
Entries 92
Mean −0.01036
Std Dev 0.9877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

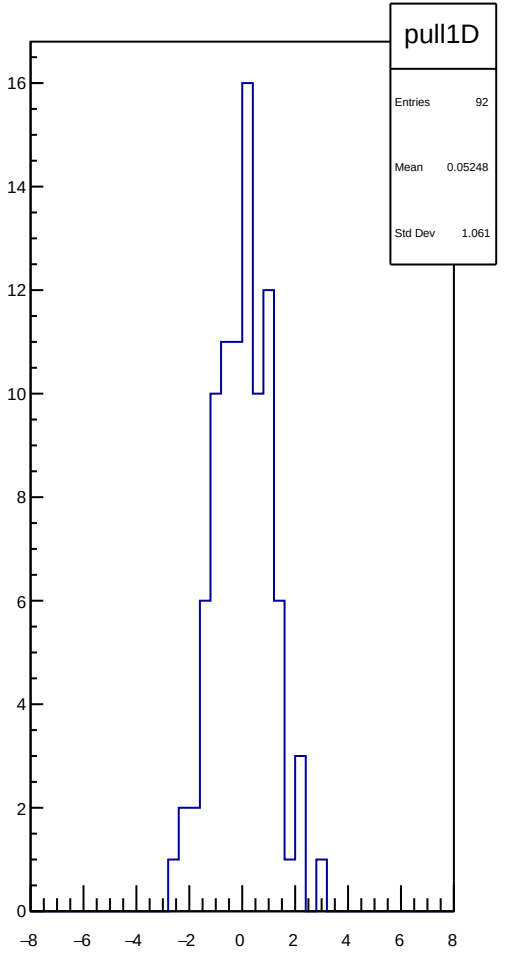

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 6082 / 91
p0 323.6 ± 0.2475
380
360
340
320
300
280

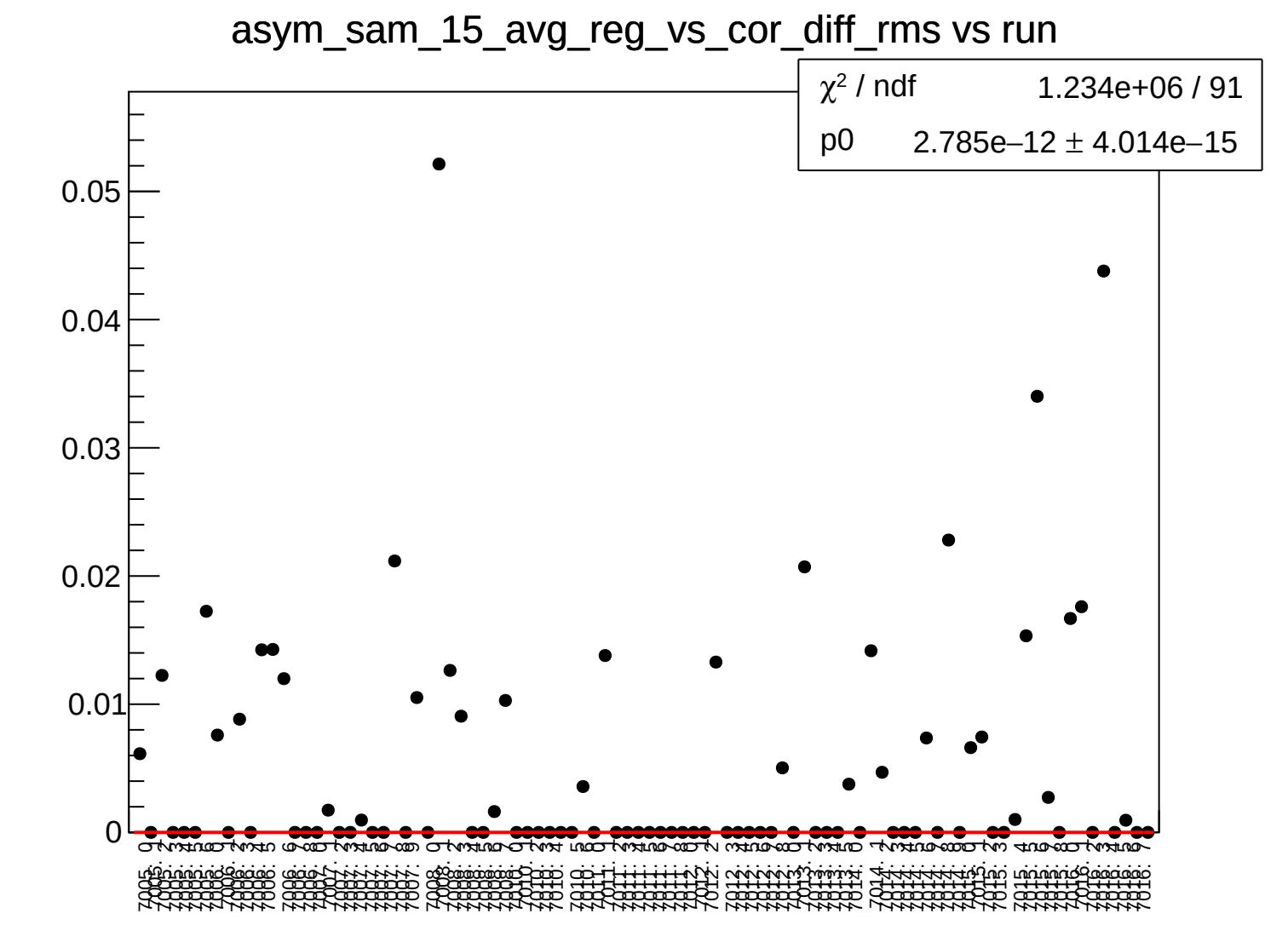

asym_sam_15_avg_mean vs run
χ² / ndf 86.42 / 91
p0 151.6 ± 345.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 55.75
Std Dev 81.18
2
1
0
−1
−2
−3

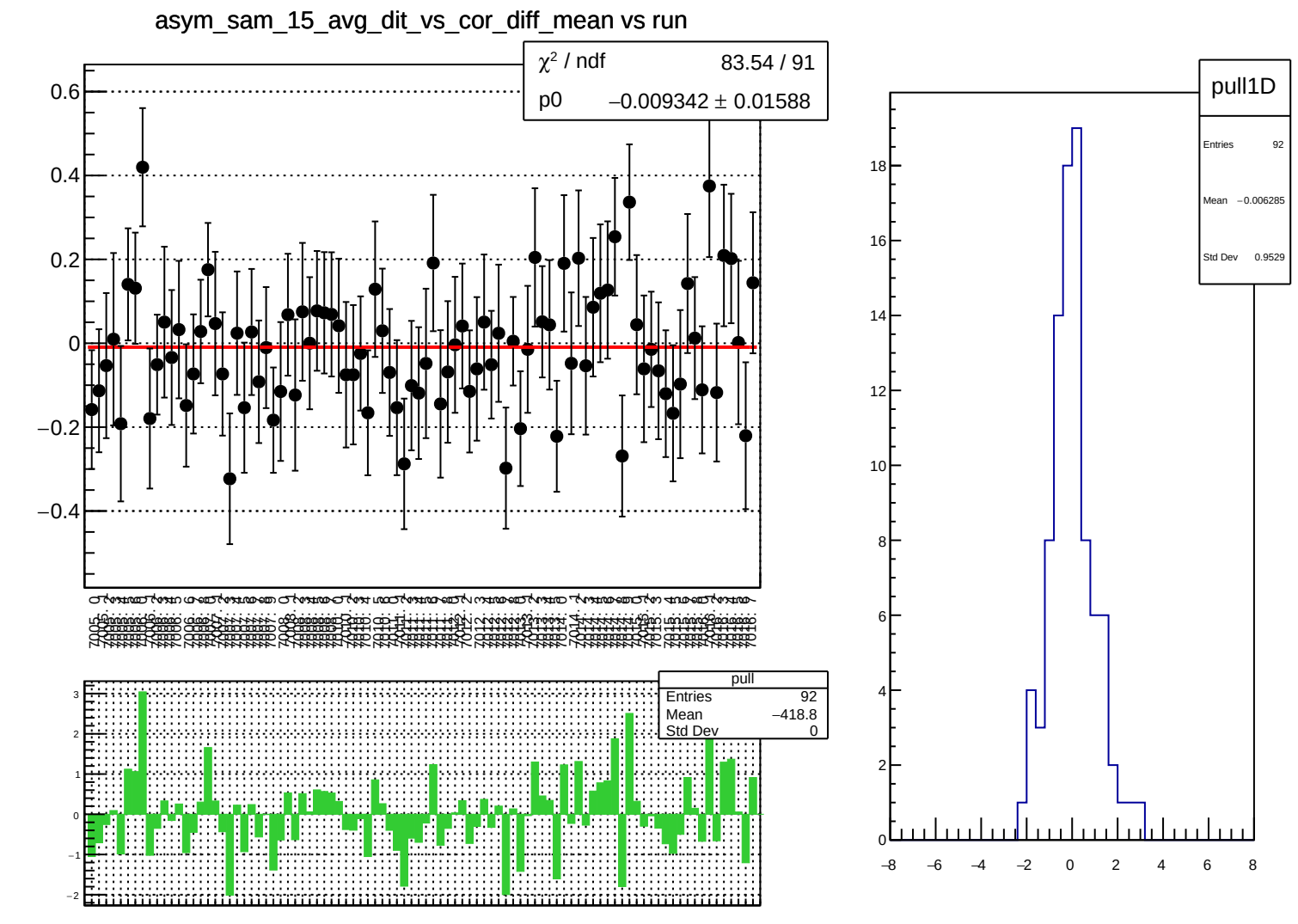

pull1D
Entries 92
Mean 0.0107
Std Dev 0.9692
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

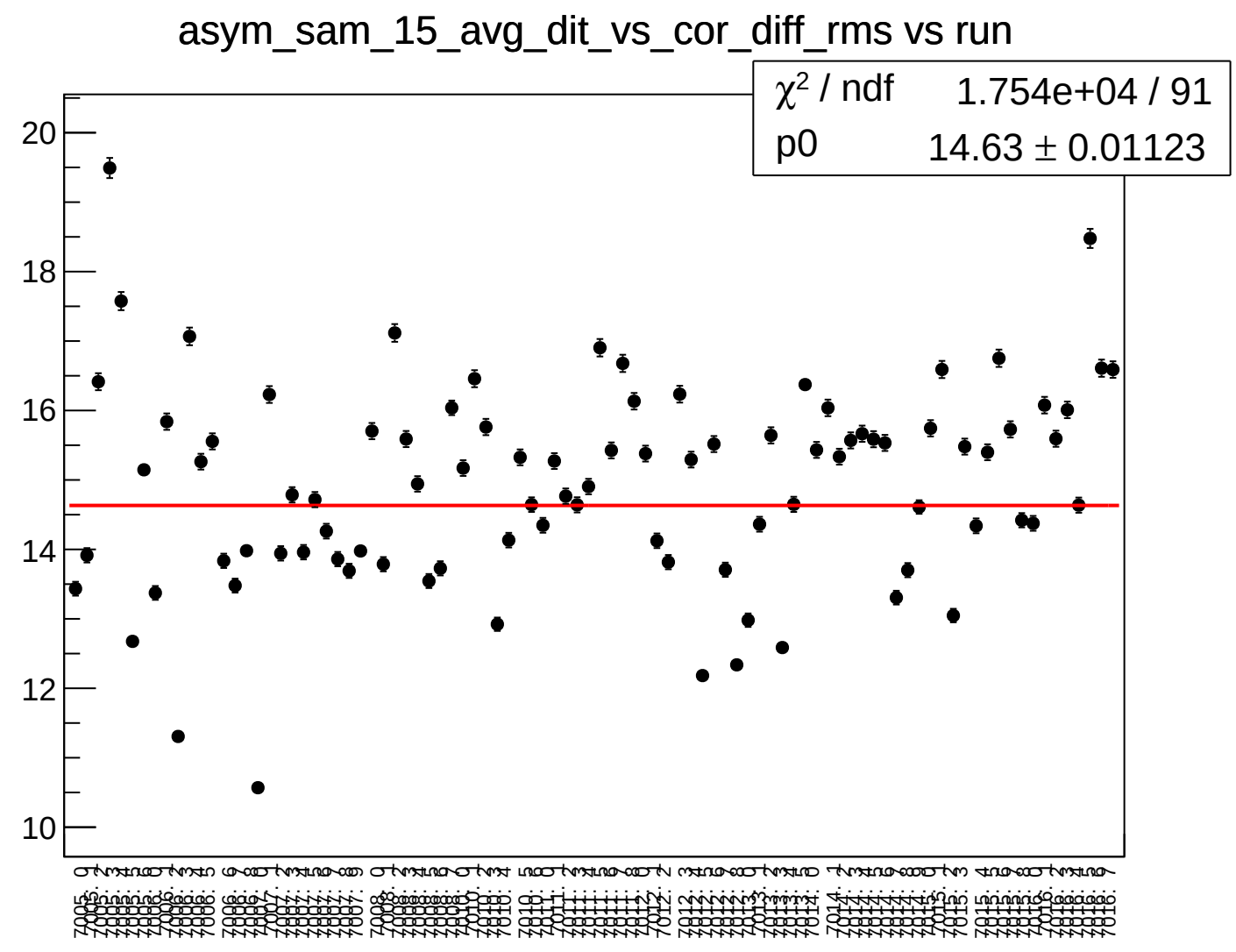

asym_sam_15_avg_rms vs run
χ² / ndf 6842 / 91
p0 319.4 ± 0.2444
380
360
340
320
300
280

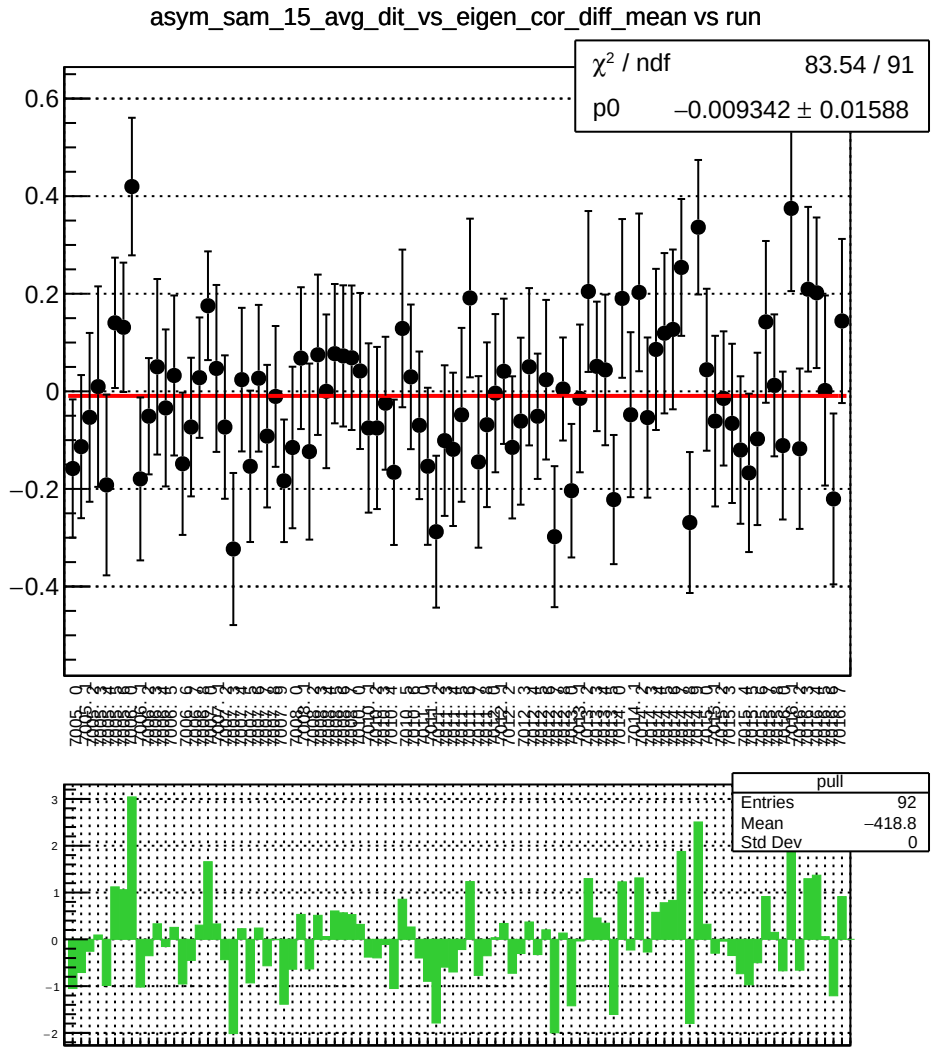

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 91
p0 3.322e−16 ± 5.677e−15
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 92
Mean 27.71
Std Dev 23.75
3
2
1
0
−1
−2

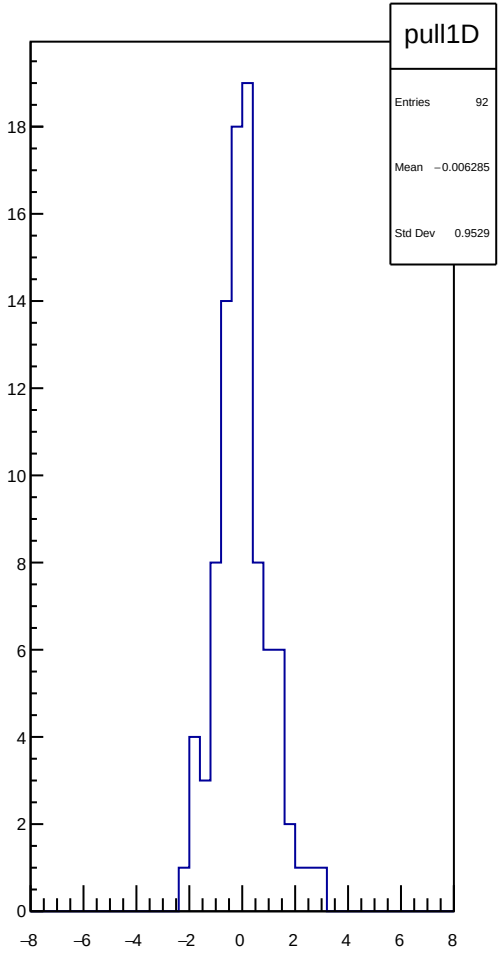

pull1D
Entries 92
Mean 0.05248
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

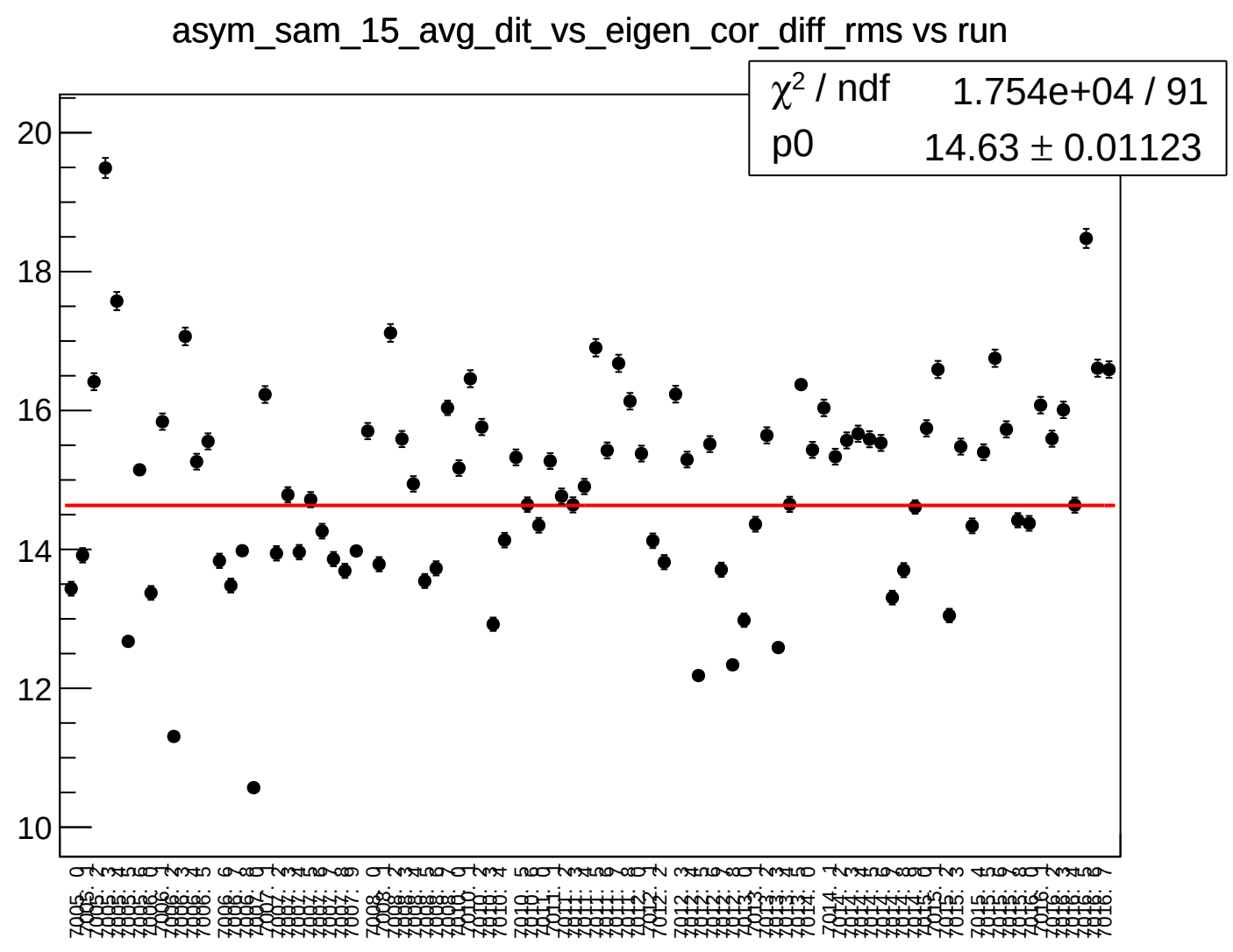

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.234e+06 / 91
p0 2.785e−12 ± 4.014e−15
0.05
0.04
0.03
0.02
0.01
0

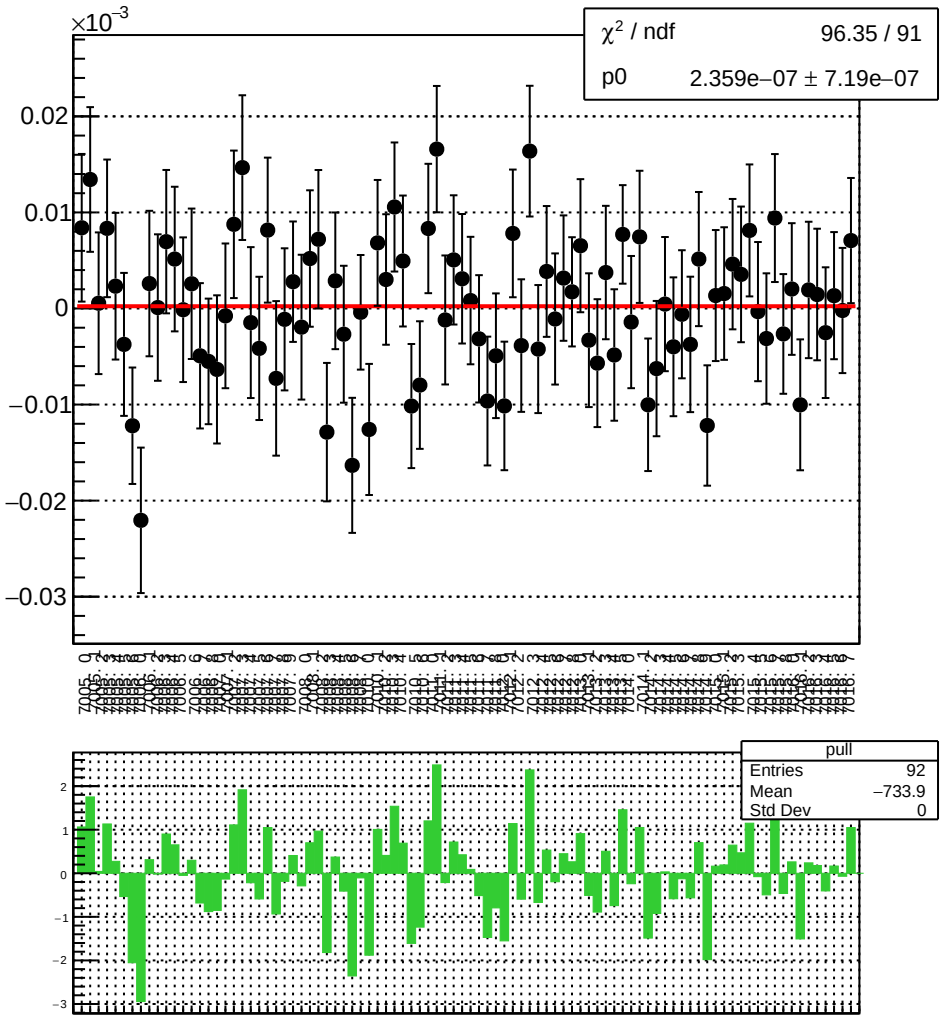

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.54 / 91
p0 −0.009342 ± 0.01588
pull
Entries 92
Mean −418.8
Std Dev 0
pull1D
Entries 92
Mean −0.006285
Std Dev 0.9529

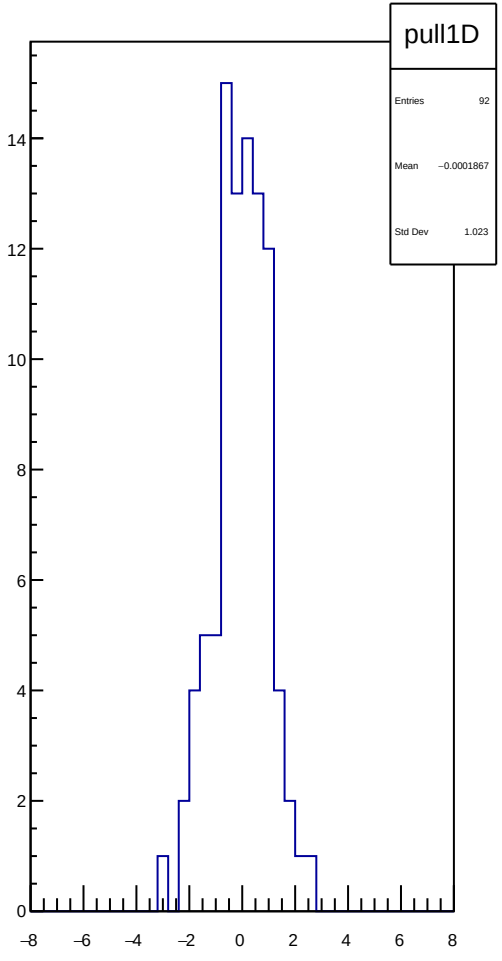

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.754e+04 / 91
p0 14.63 ± 0.01123
20
18
16
14
12
10

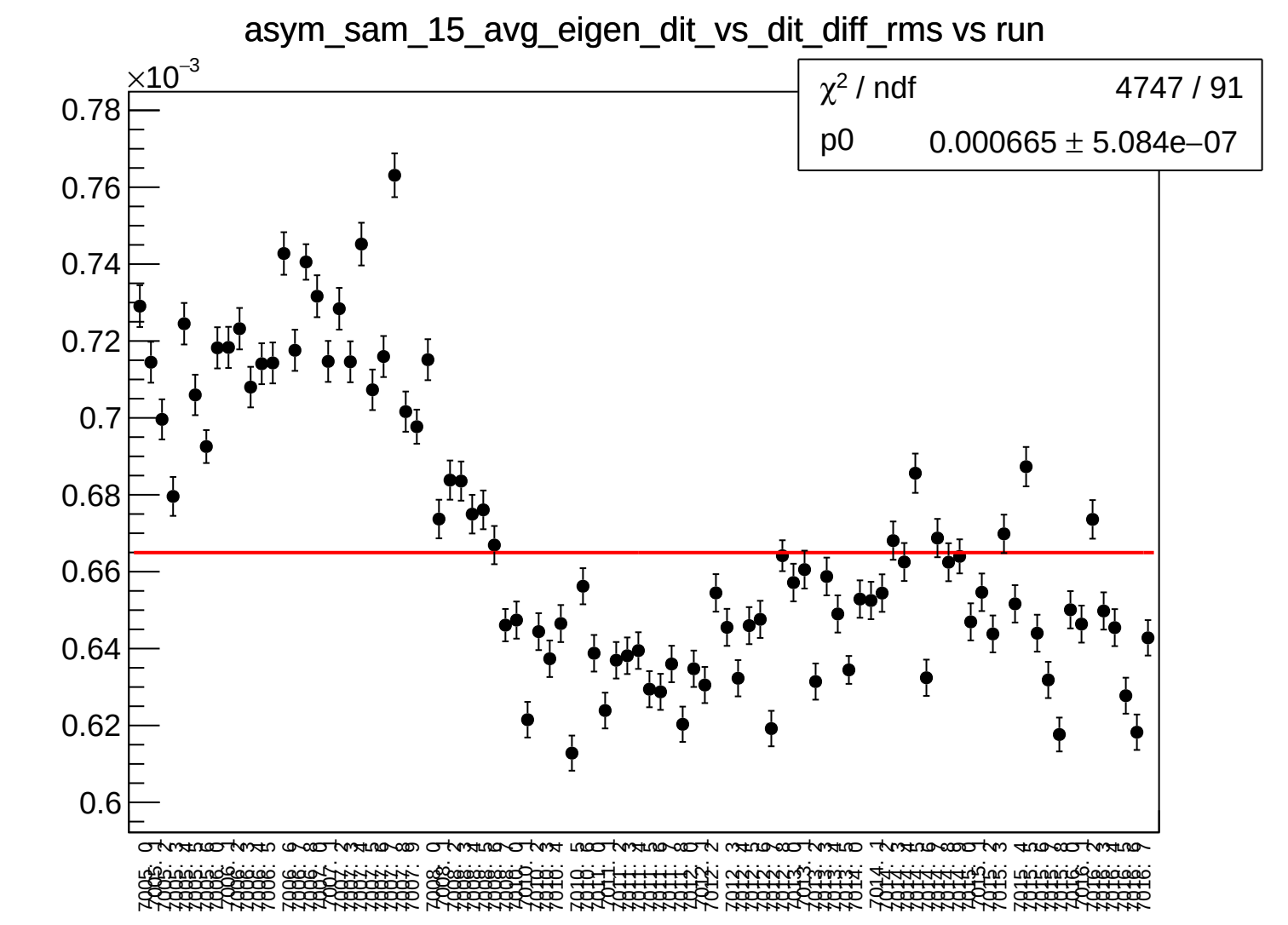

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.54 / 91
p0 −0.009342 ± 0.01588
pull
Entries 92
Mean −418.8
Std Dev 0

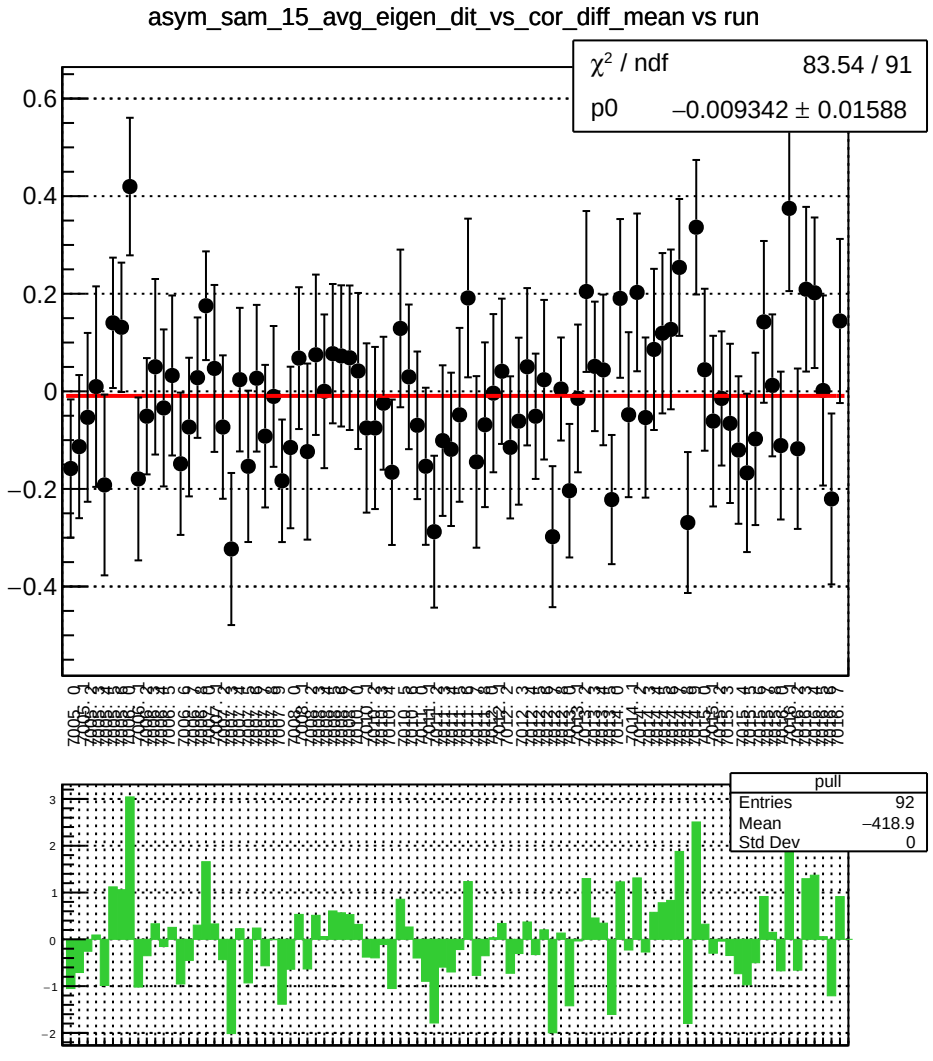

pull1D
Entries 92
Mean −0.006285
Std Dev 0.9529

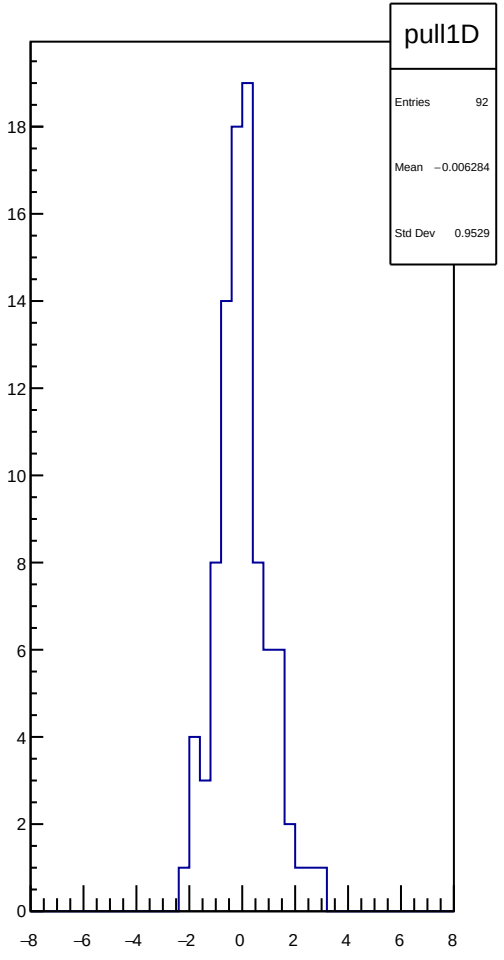

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.754e+04 / 91
p0 14.63 ± 0.01123
20
18
16
14
12
10

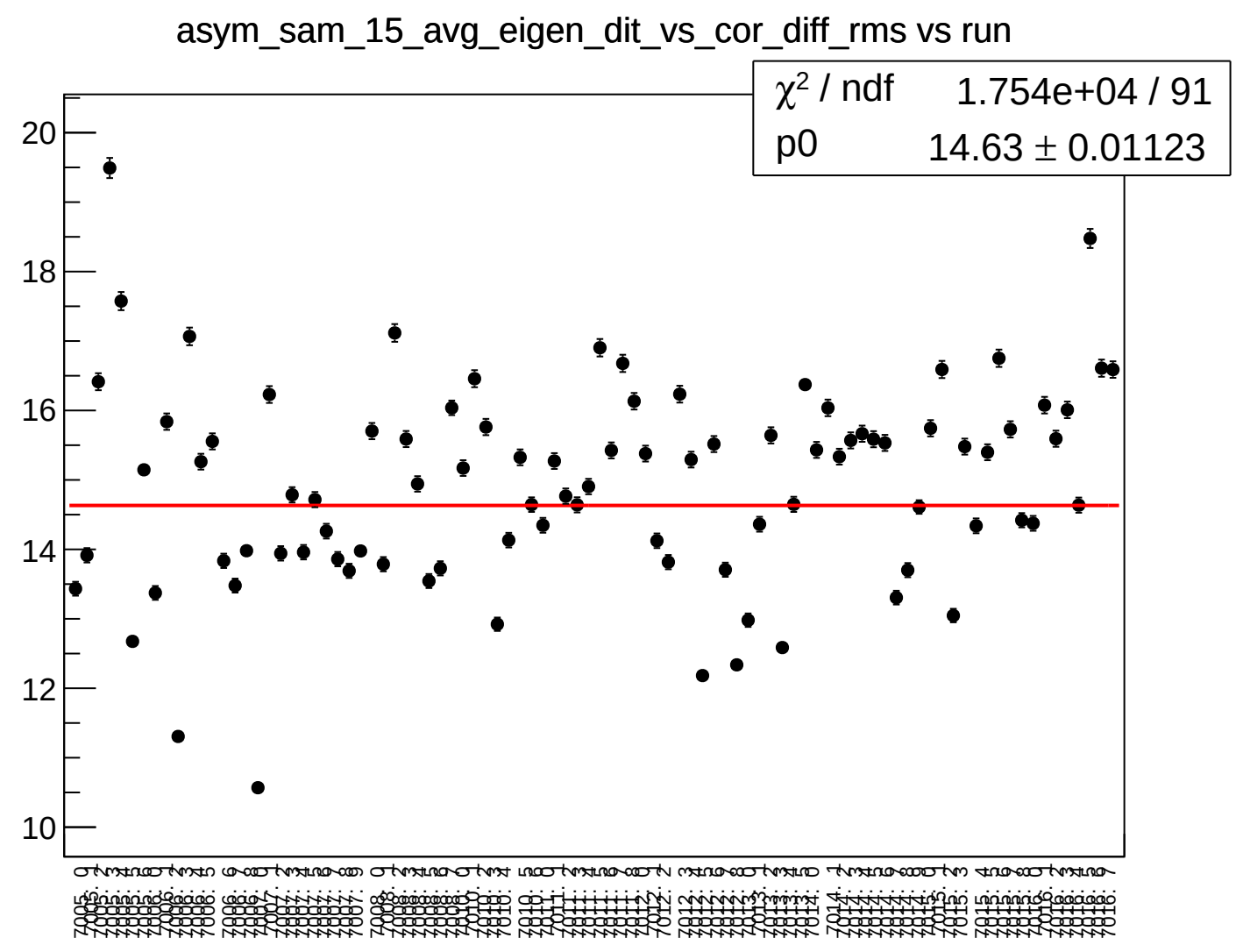

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.35 / 91
p0 2.359e−07 ± 7.19e−07
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 92
Mean −733.9
Std Dev 0
2
1
0
−1
−2
−3

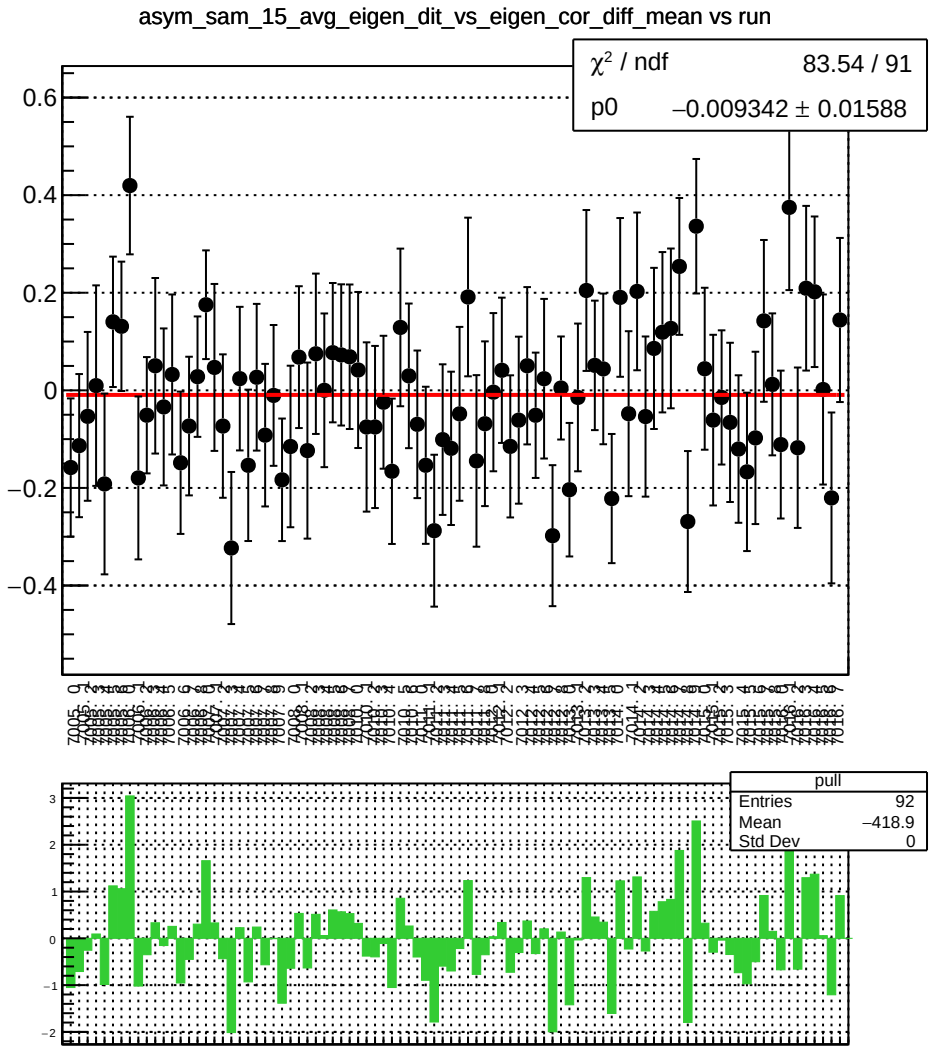

pull1D
Entries 92
Mean −0.0001867
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

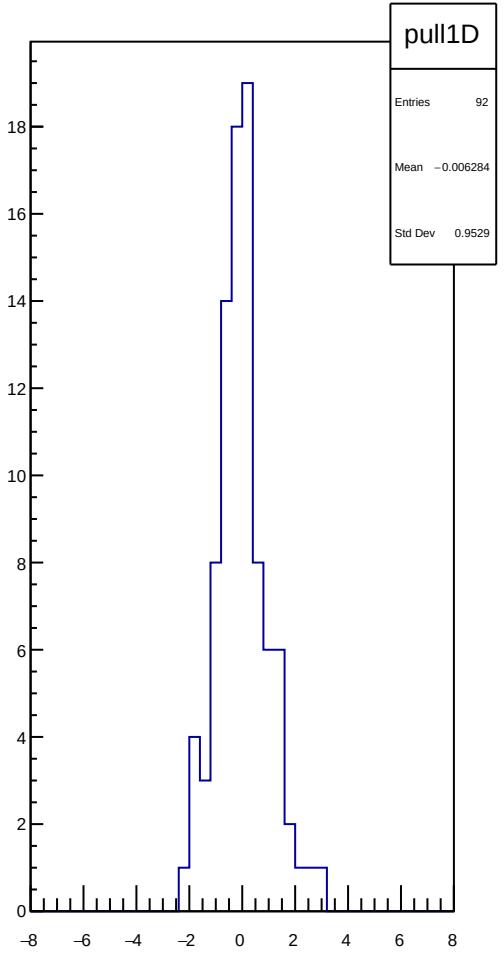

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4747 / 91
p0 0.000665 ± 5.084e−07
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0.64
0.62
0.6

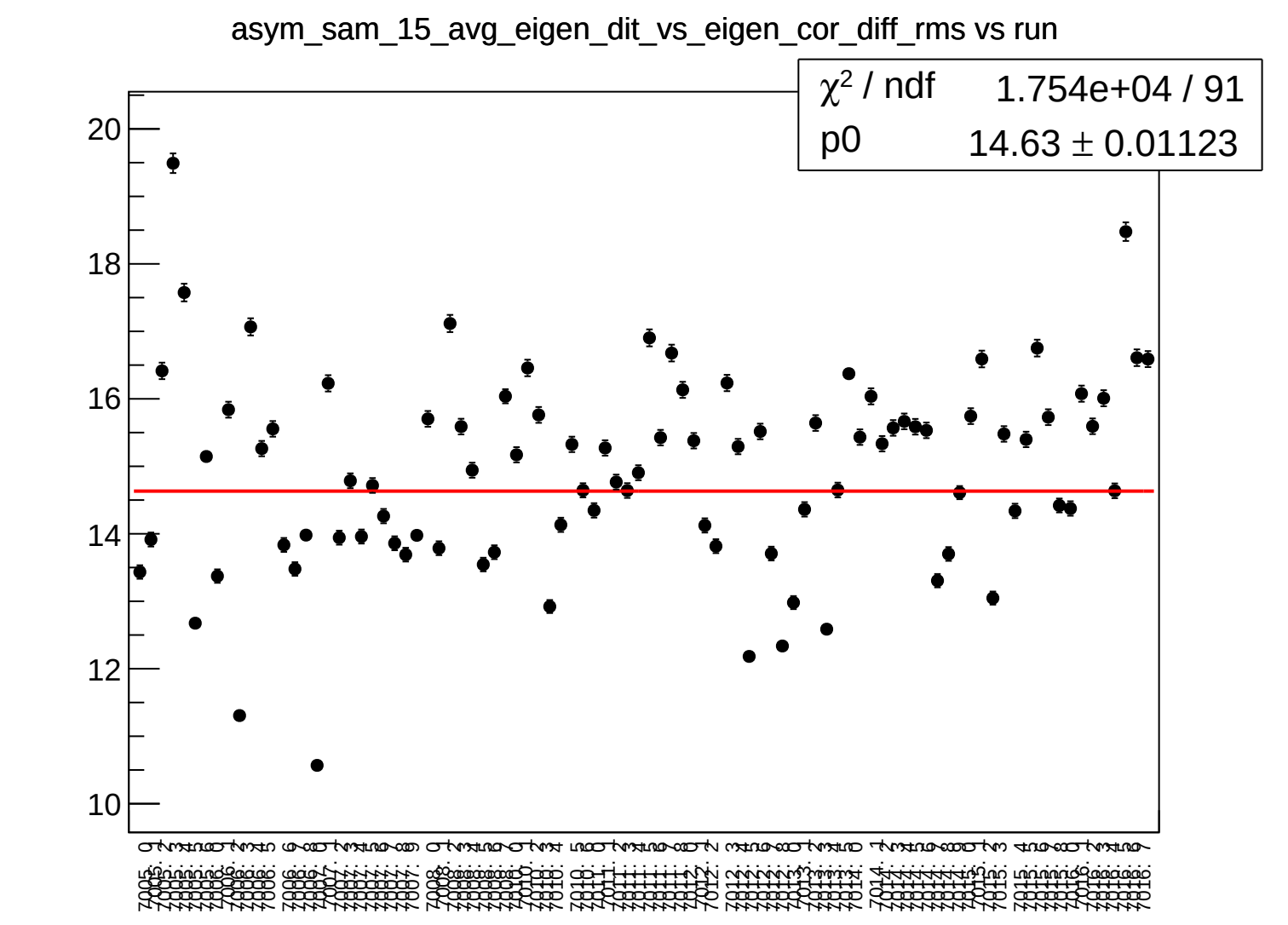

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.54 / 91
p0 −0.009342 ± 0.01588
pull
Entries 92
Mean −418.9
Std Dev 0

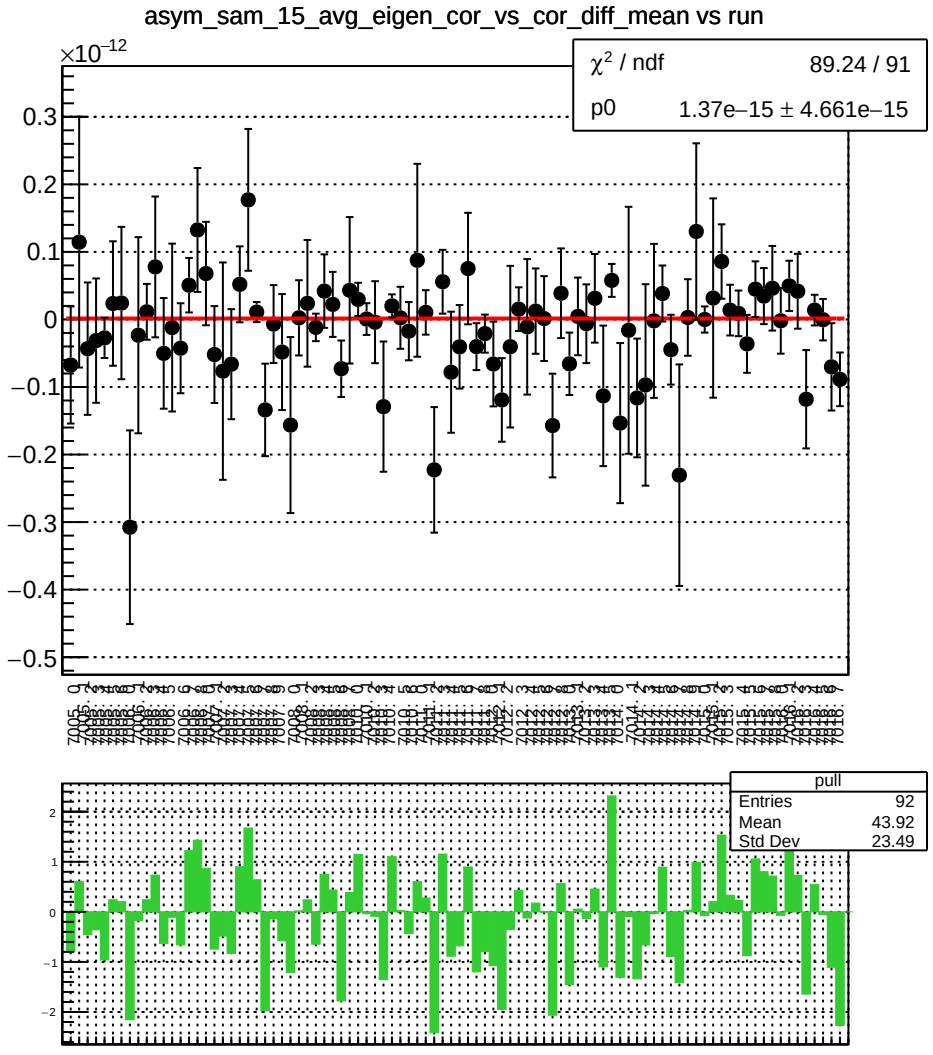

pull1D
Entries 92
Mean −0.006284
Std Dev 0.9529

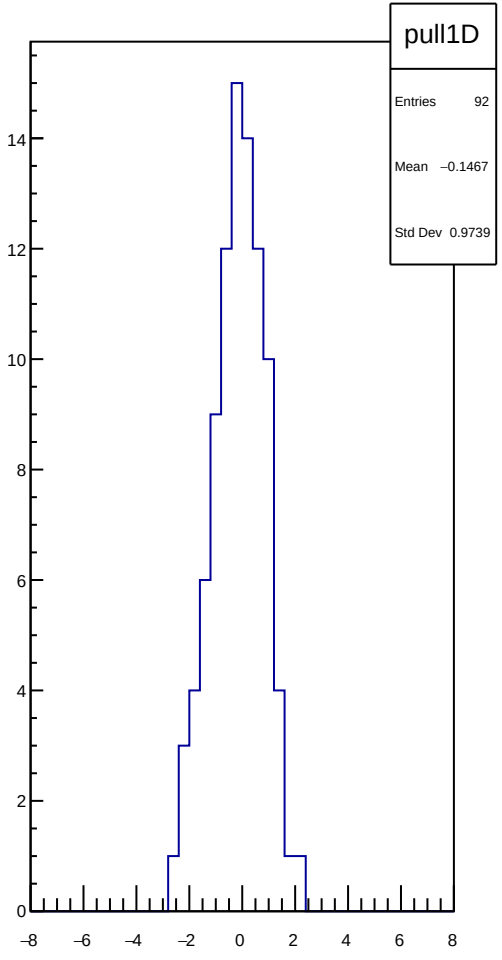

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.754e+04 / 91
p0 14.63 ± 0.01123
20
18
16
14
12
10

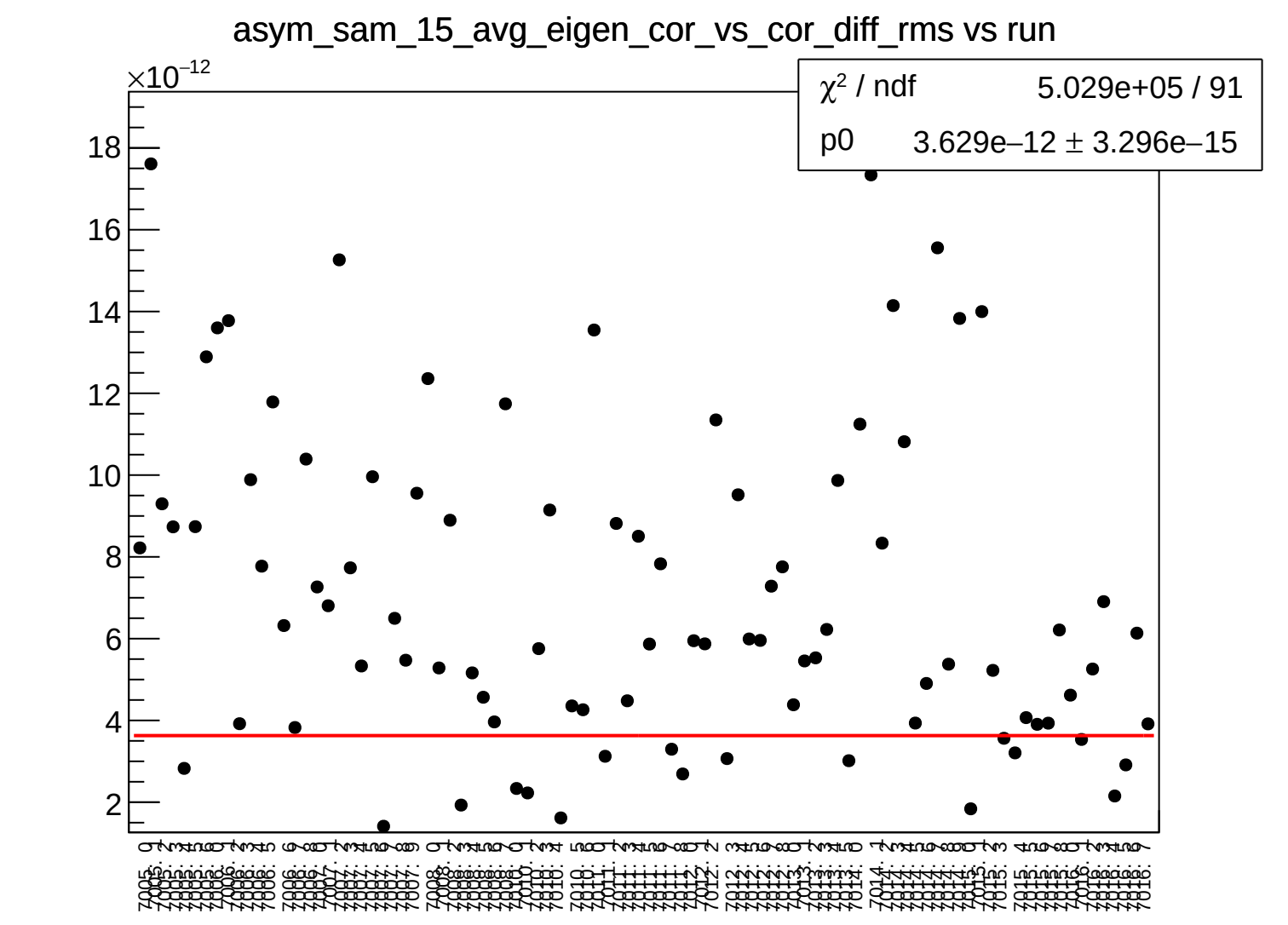

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.54 / 91
p0 −0.009342 ± 0.01588
pull
Entries 92
Mean −418.9
Std Dev 0

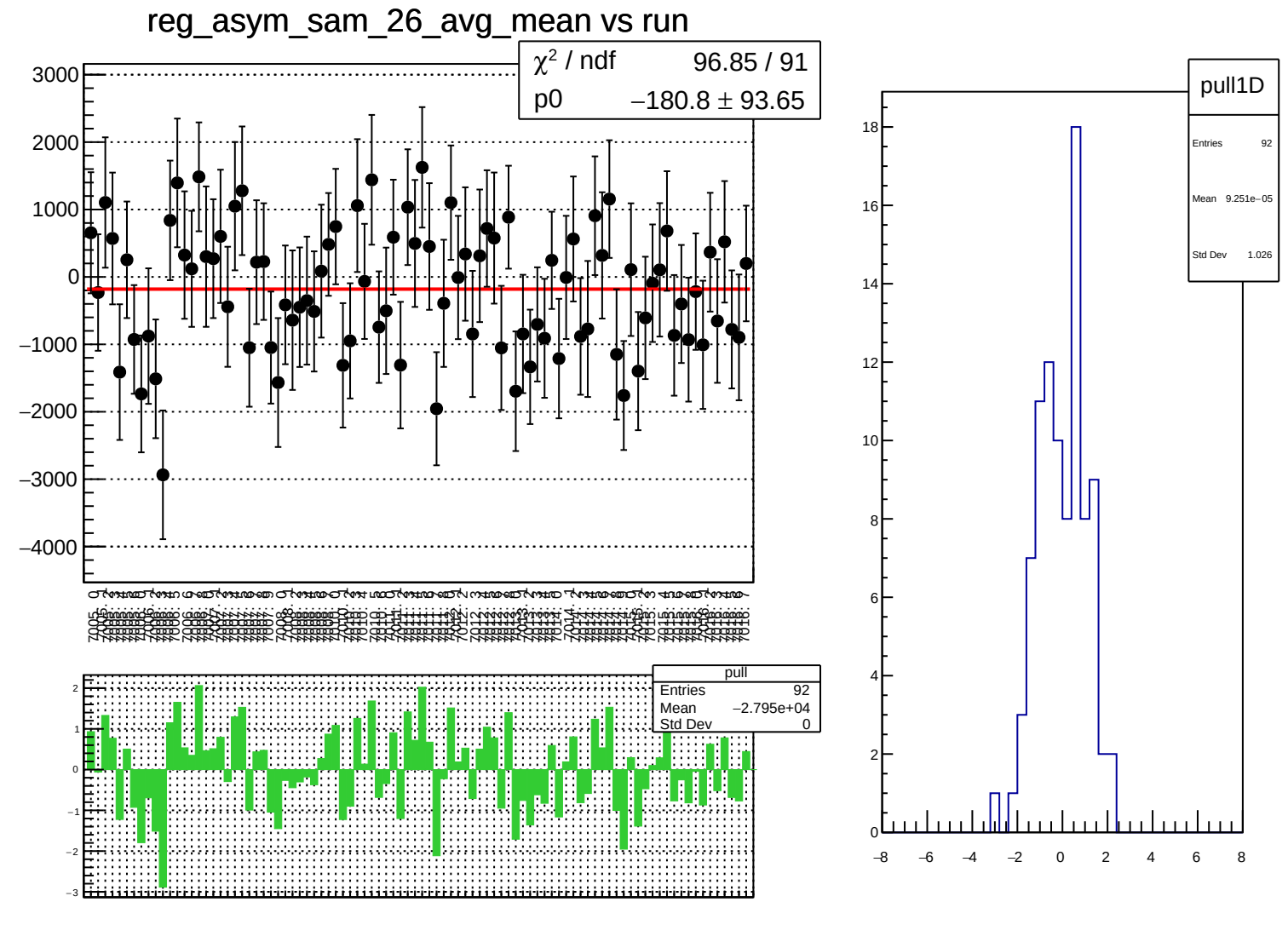

pull1D
Entries 92
Mean −0.006284
Std Dev 0.9529

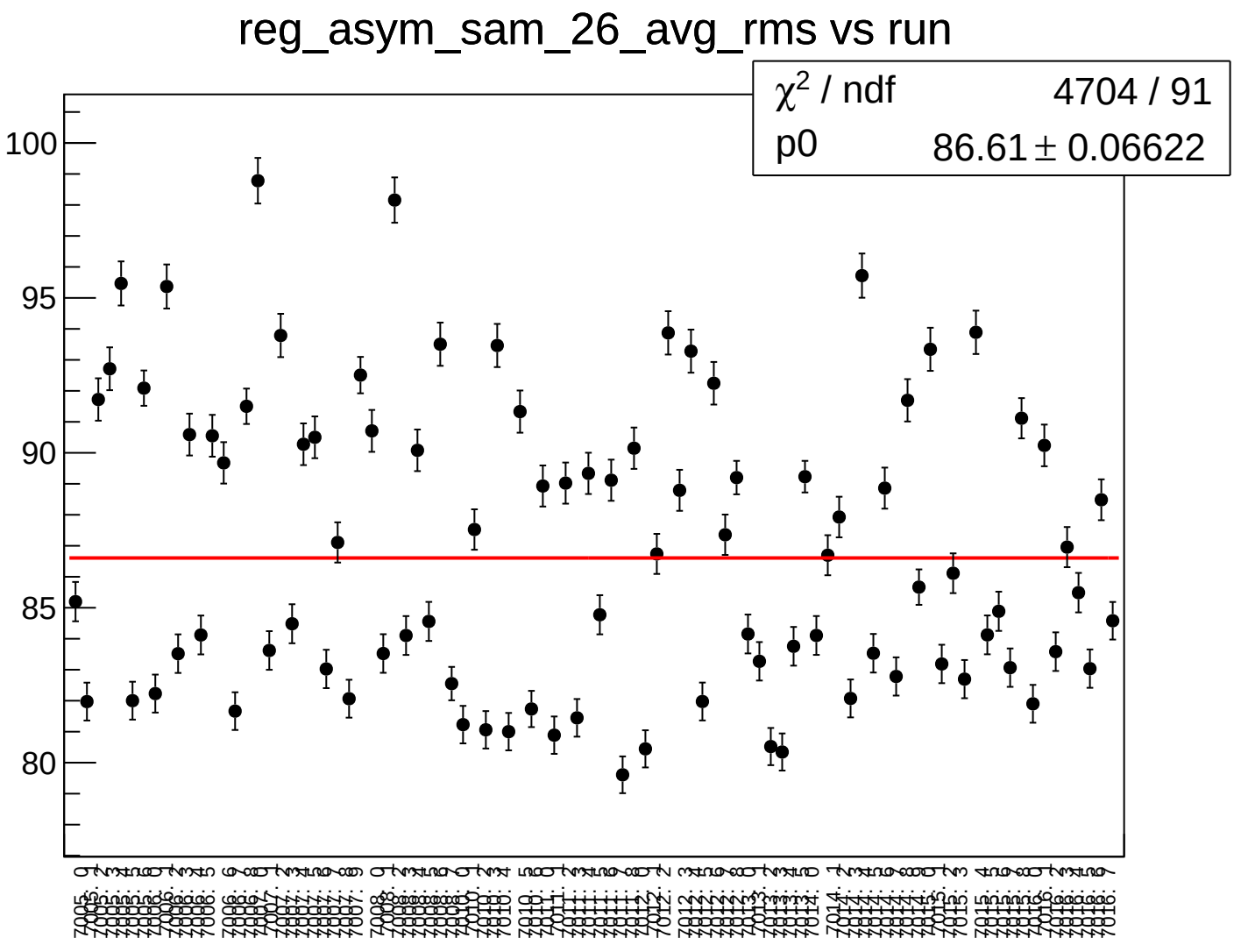

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.754e+04 / 91
p0 14.63 ± 0.01123
20
18
16
14
12
10

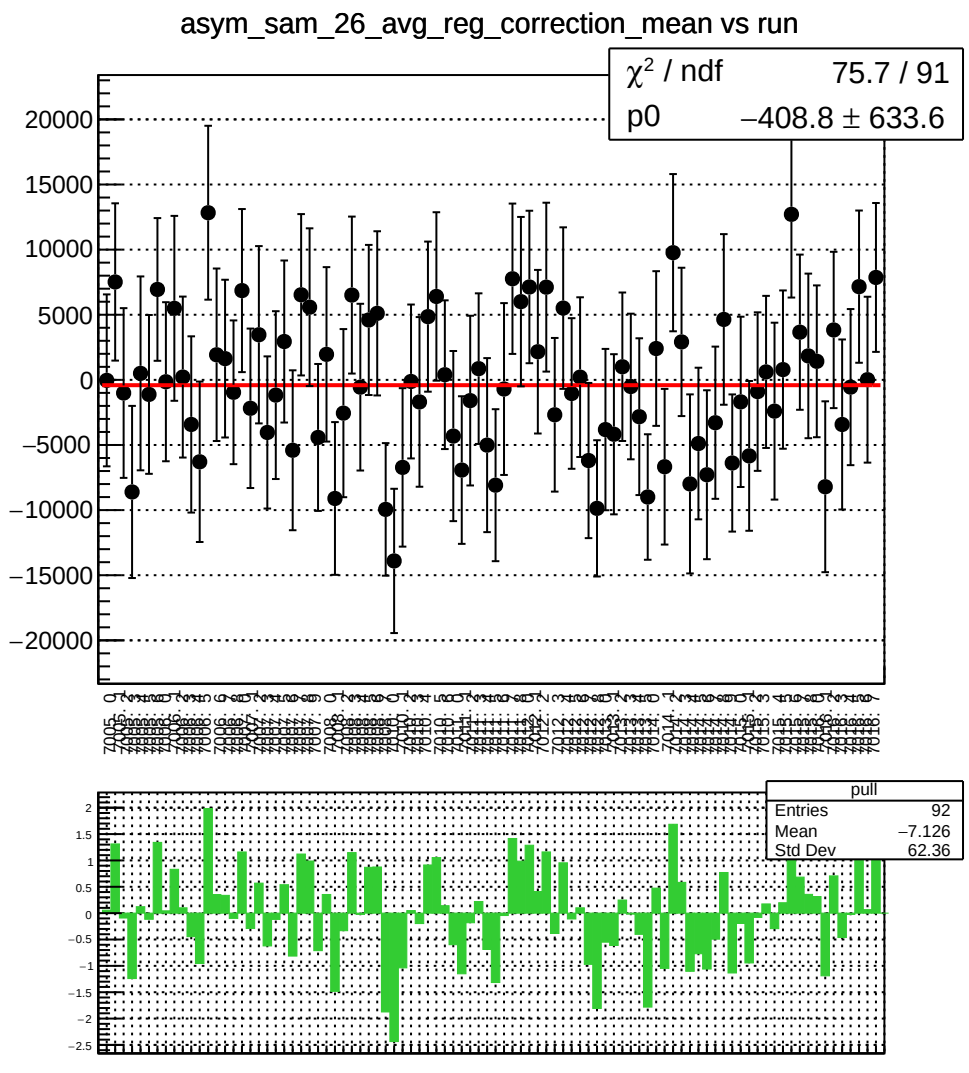

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.24 / 91
p0 1.37e−15 ± 4.661e−15
pull
Entries 92
Mean 43.92
Std Dev 23.49

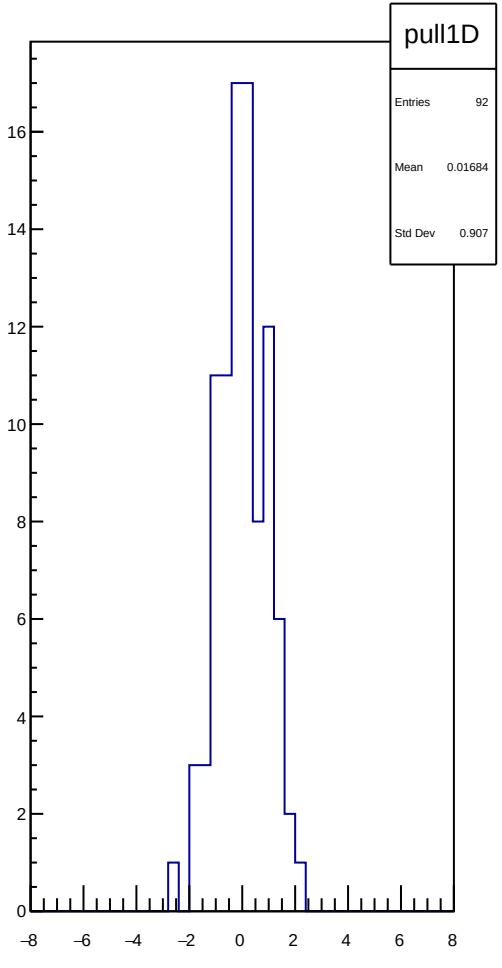

pull1D
Entries 92
Mean −0.1467
Std Dev 0.9739

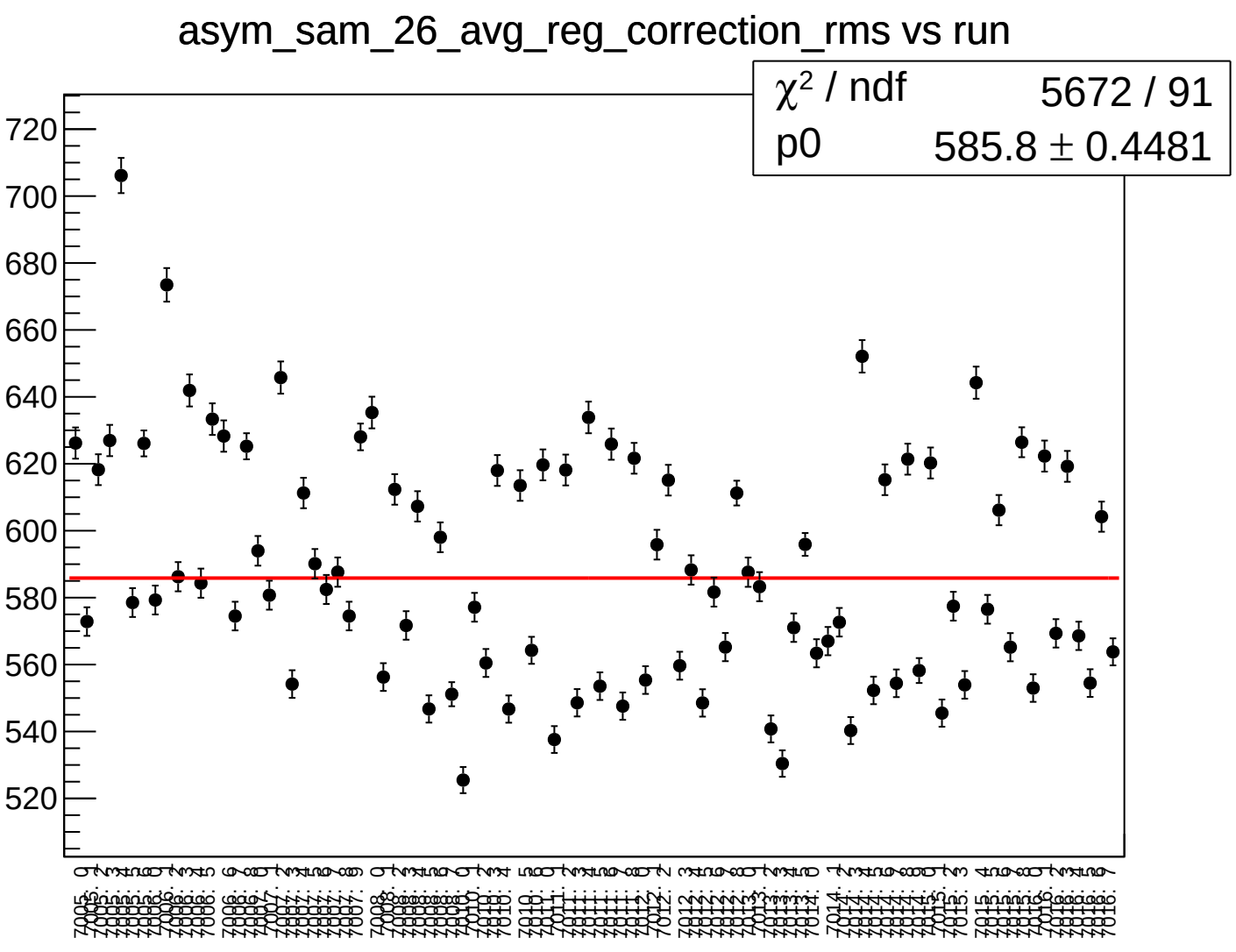

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.029e+05 / 91
p0 3.629e−12 ± 3.296e−15
18
16
14
12
10
8
6
4
2

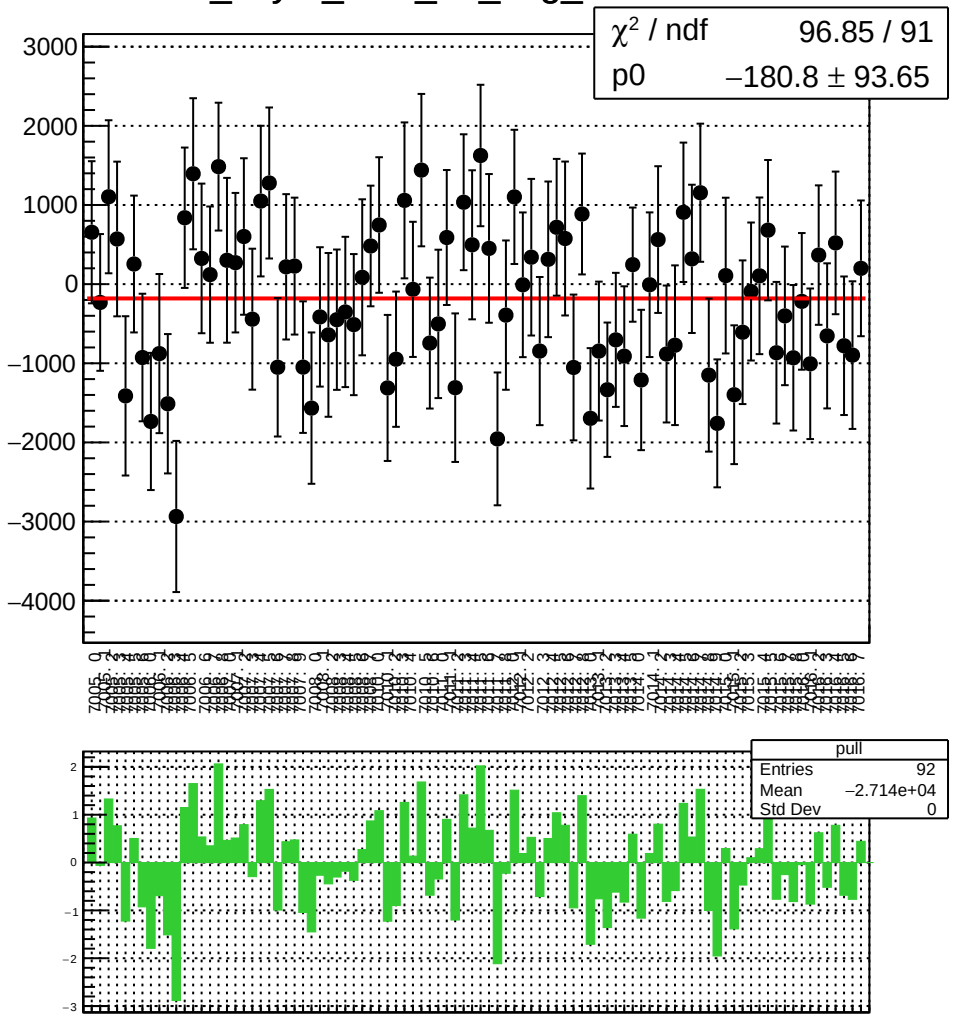

reg_asym_sam_26_avg_mean vs run
χ² / ndf 96.85 / 91
p0 −180.8 ± 93.65
pull
Entries 92
Mean −2.795e+04
Std Dev 0
pull1D
Entries 92
Mean 9.251e−05
Std Dev 1.026

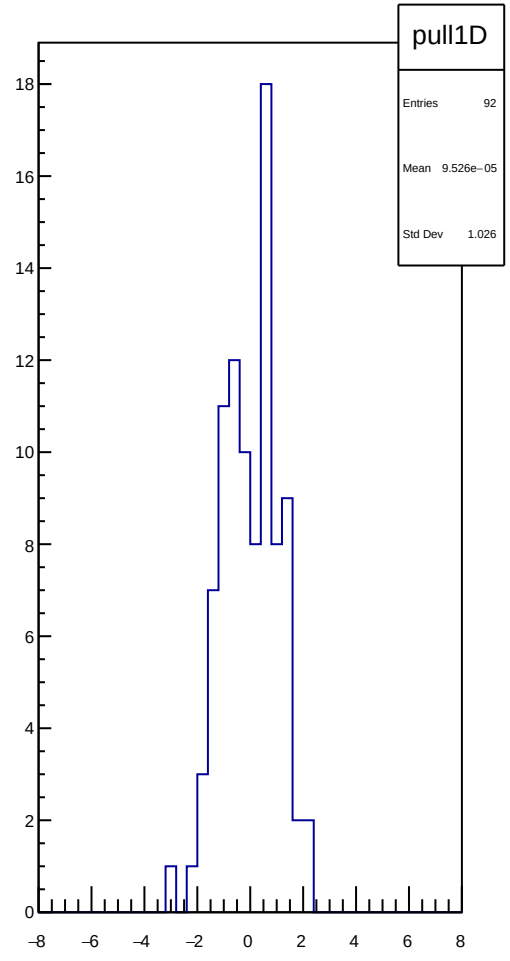

reg_asym_sam_26_avg_rms vs run
$\chi^2$ / ndf 4704 / 91
p0 86.61 ± 0.06622
100
95
90
85
80

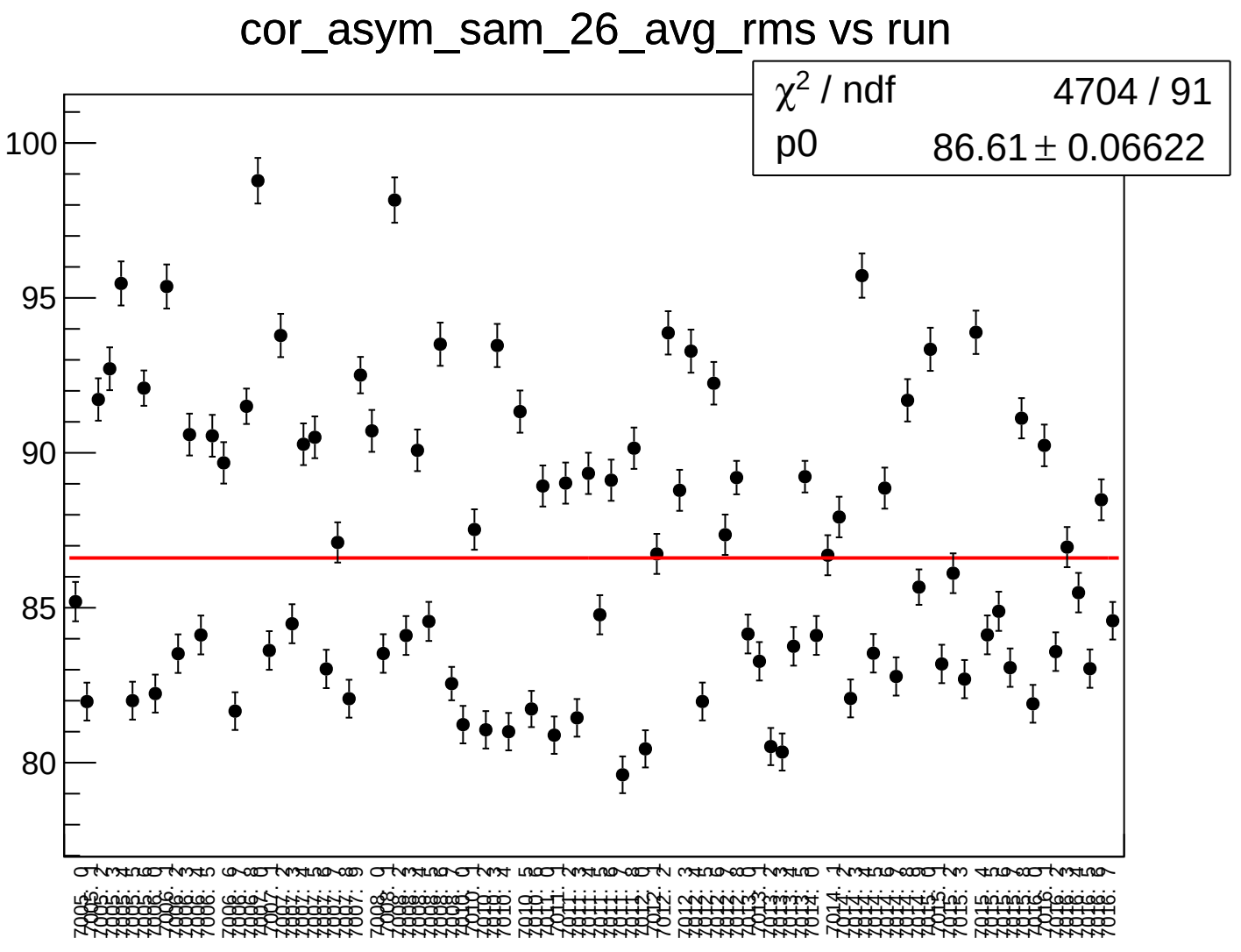

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 75.7 / 91
p0 −408.8 ± 633.6
pull
Entries 92
Mean −7.126
Std Dev 62.36

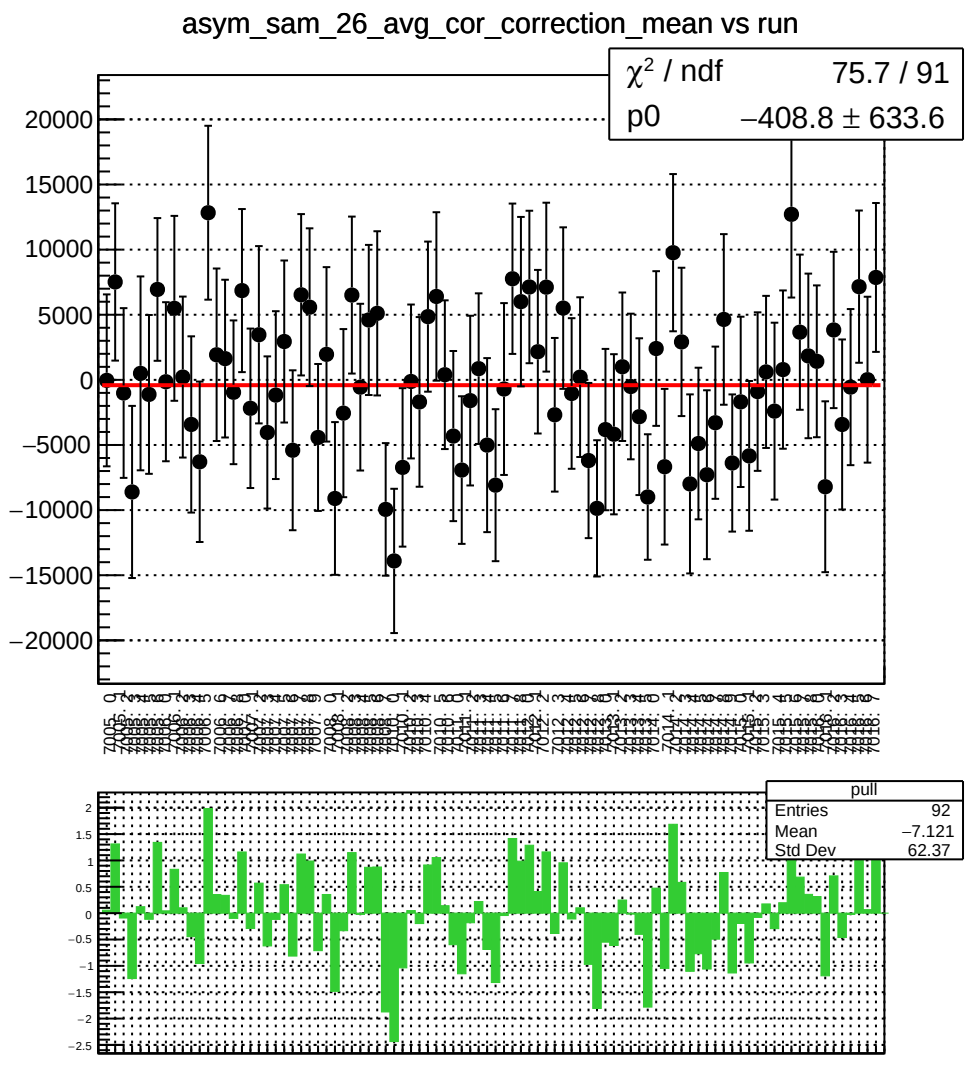

pull1D
Entries 92
Mean 0.01684
Std Dev 0.907

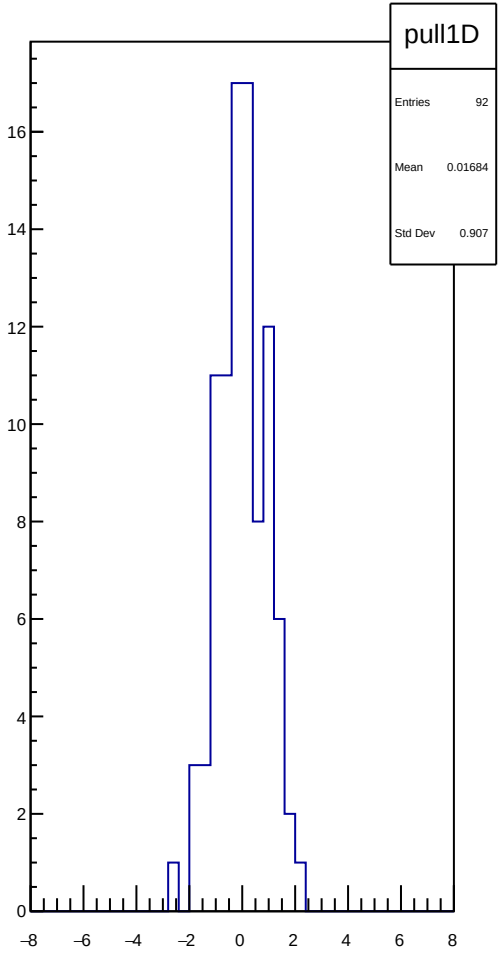

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 5672 / 91
p0 585.8 ± 0.4481
720
700
680
660
640
620
600
580
560
540
520

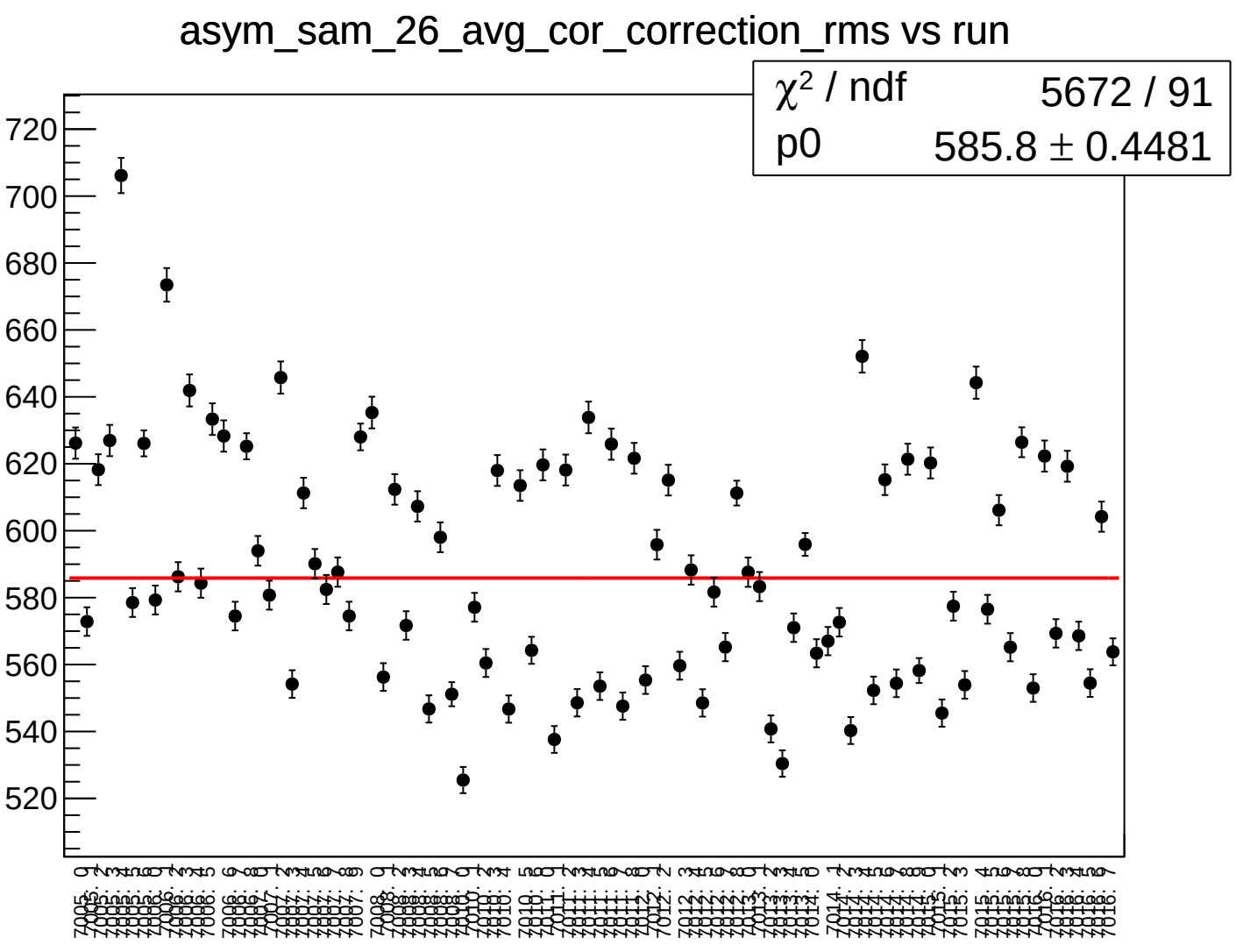

cor_asym_sam_26_avg_mean vs run
χ² / ndf 96.85 / 91
p0 −180.8 ± 93.65
pull
Entries 92
Mean −2.714e+04
Std Dev 0

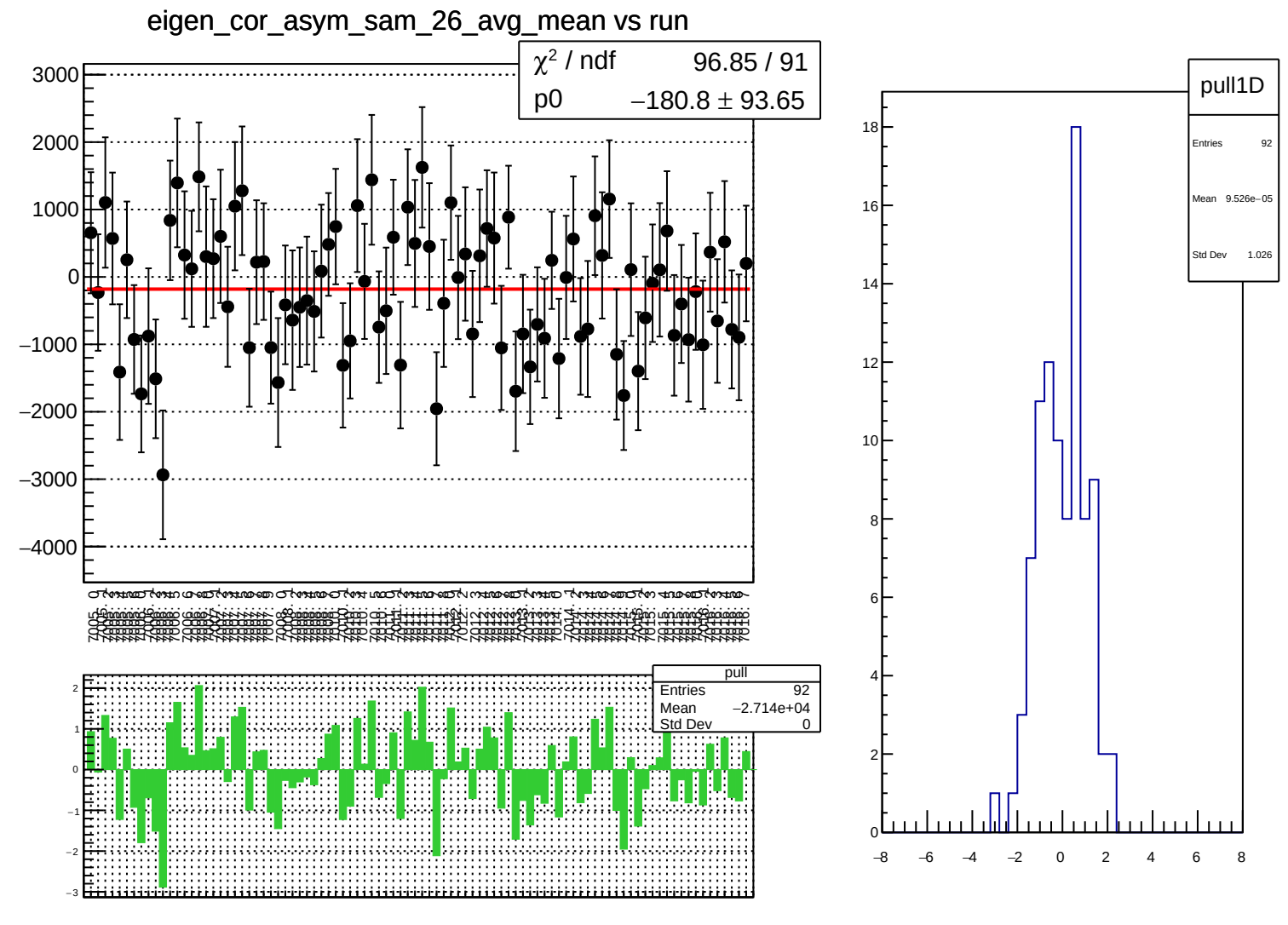

pull1D
Entries 92
Mean 9.526e−05
Std Dev 1.026

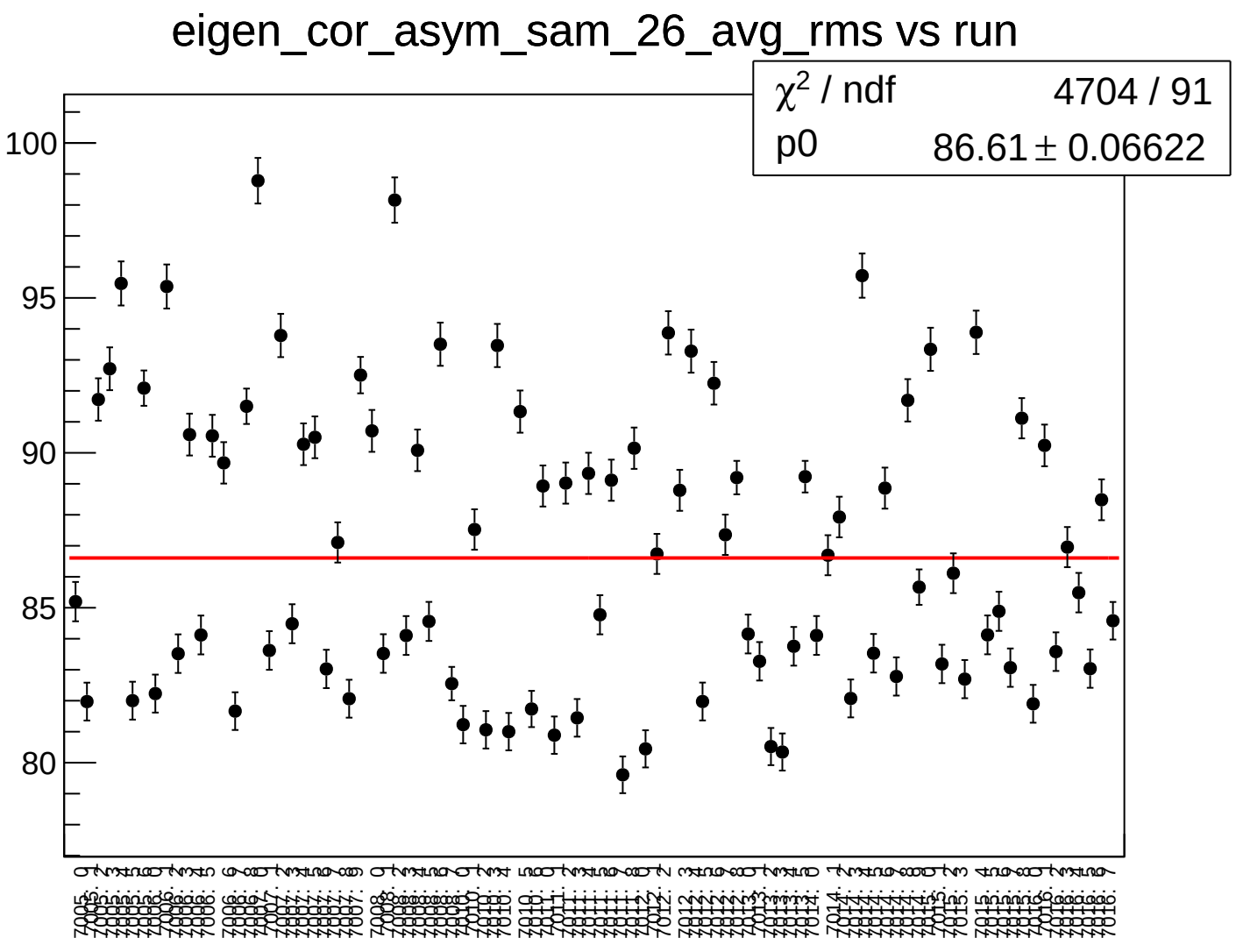

cor_asym_sam_26_avg_rms vs run
$\chi^2$ / ndf 4704 / 91
p0 86.61 ± 0.06622
100
95
90
85
80

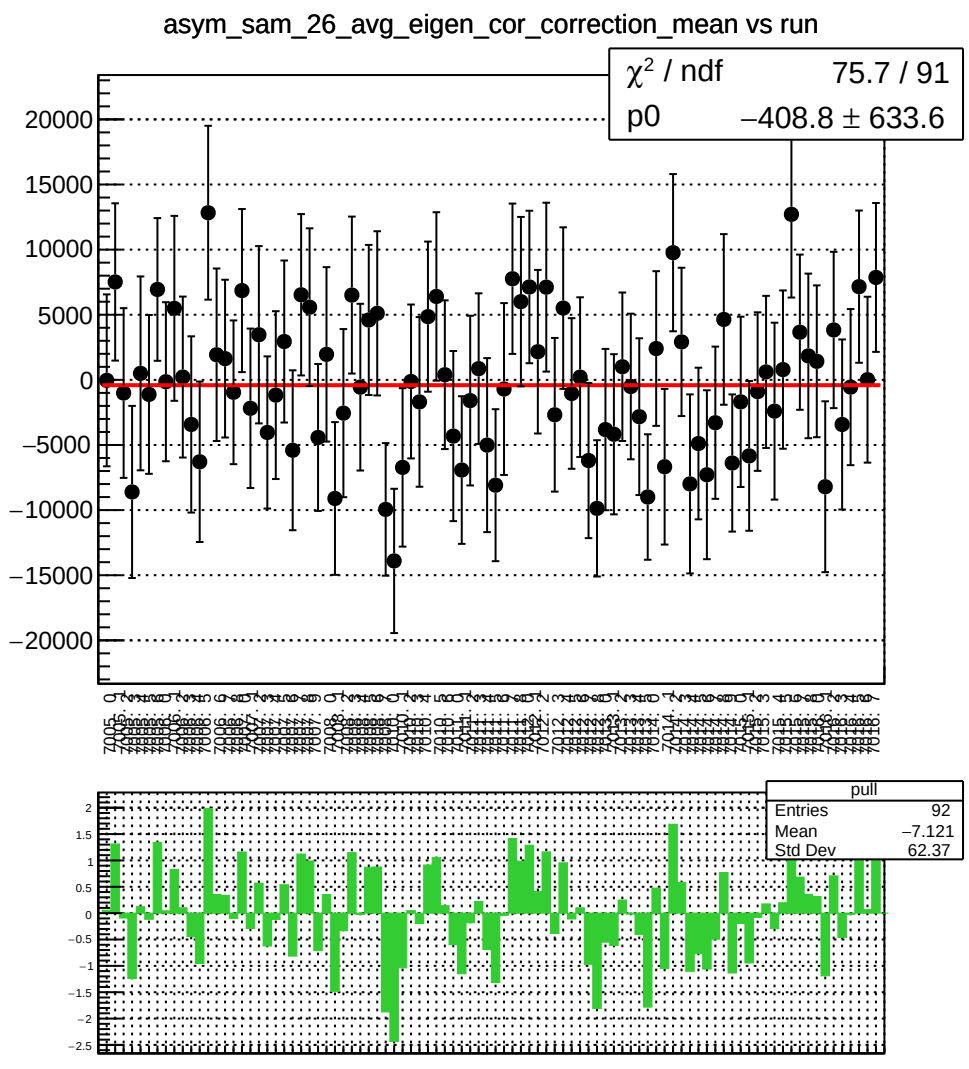

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 75.7 / 91
p0 −408.8 ± 633.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −7.121
Std Dev 62.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

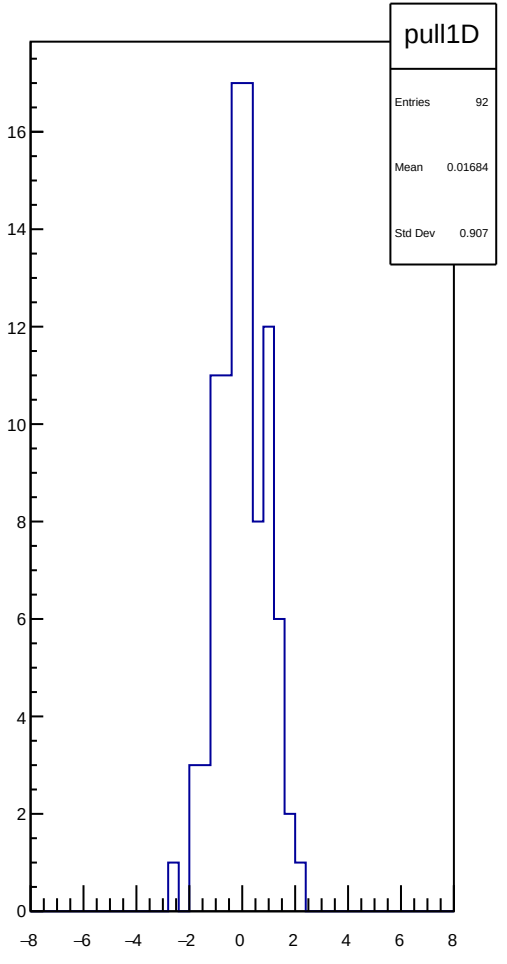

pull1D
Entries 92
Mean 0.01684
Std Dev 0.907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

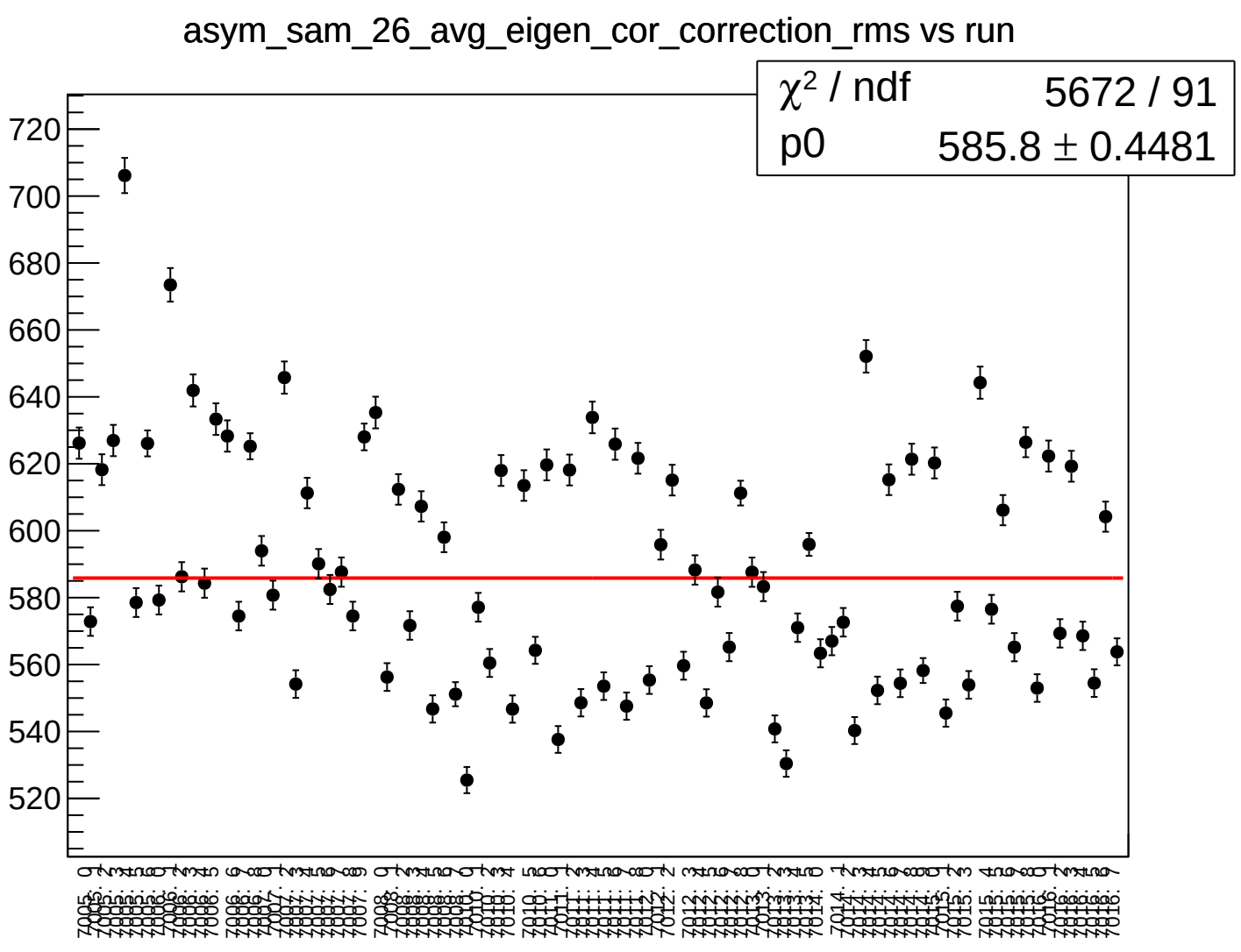

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 5672 / 91
p0 585.8 ± 0.4481
720
700
680
660
640
620
600
580
560
540
520

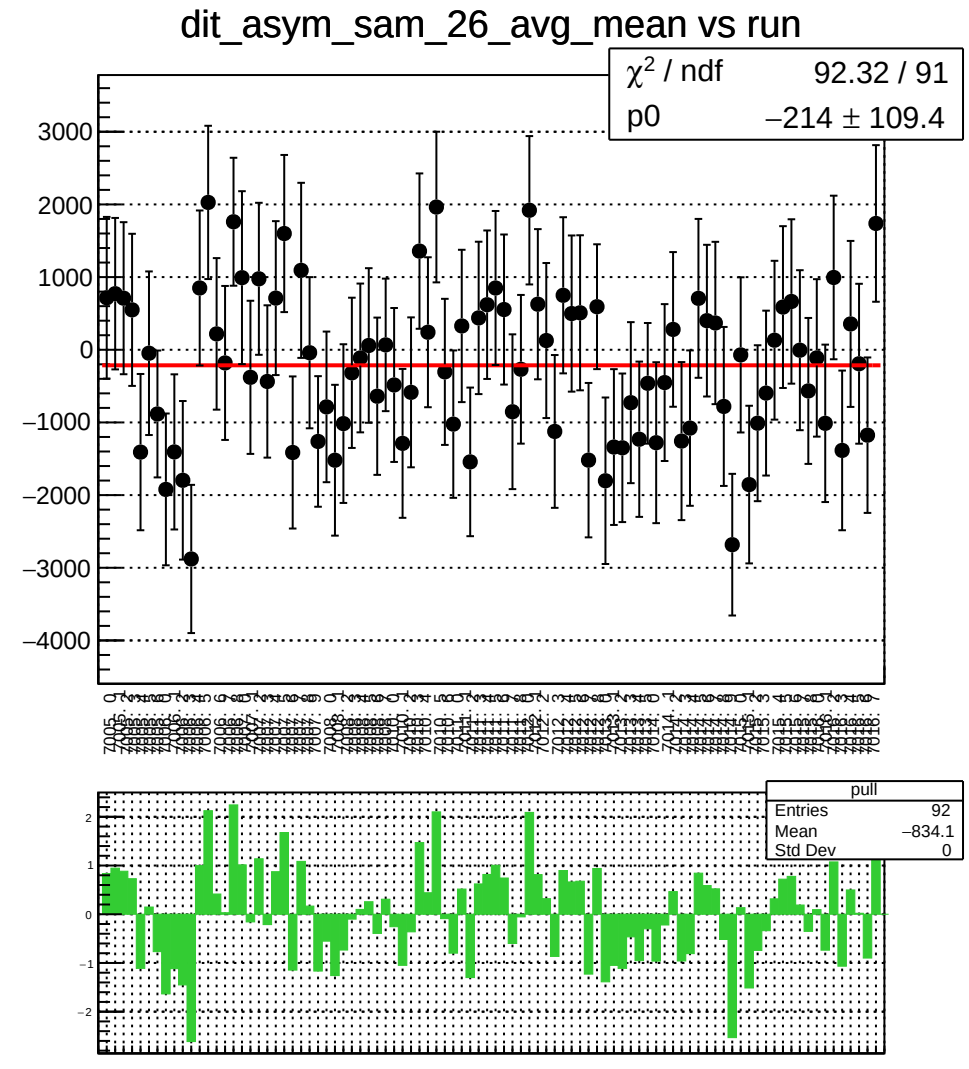

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 96.85 / 91
p0 −180.8 ± 93.65
pull
Entries 92
Mean −2.714e+04
Std Dev 0
pull1D
Entries 92
Mean 9.526e−05
Std Dev 1.026

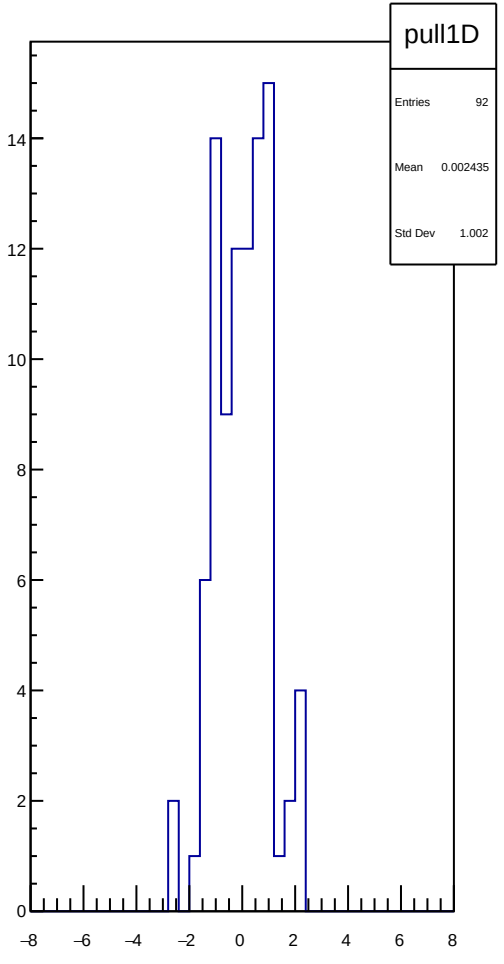

eigen_cor_asym_sam_26_avg_rms vs run
$\chi^2$ / ndf 4704 / 91
p0 86.61 ± 0.06622
100
95
90
85
80

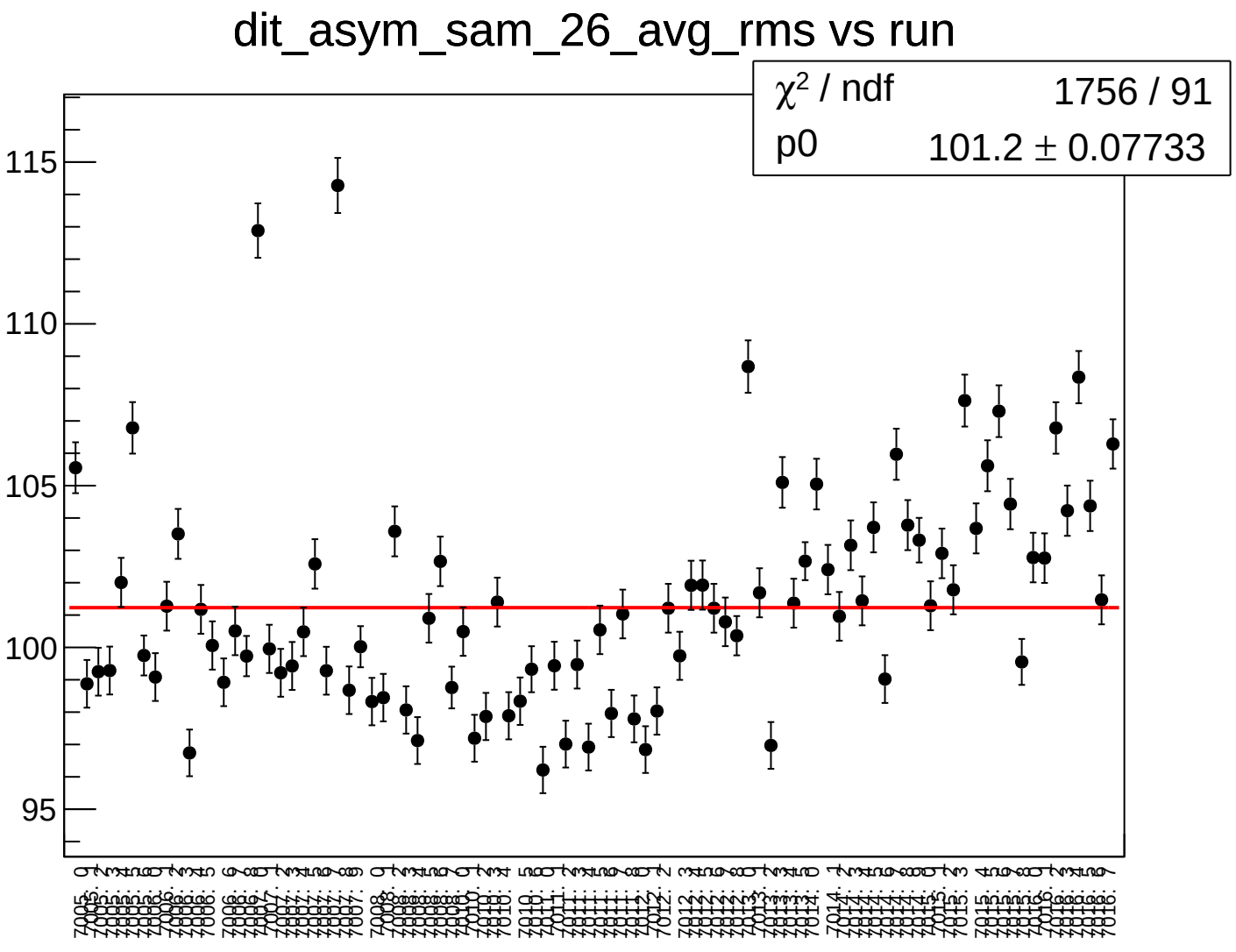

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.7 / 91
p0 −408.8 ± 633.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −7.121
Std Dev 62.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

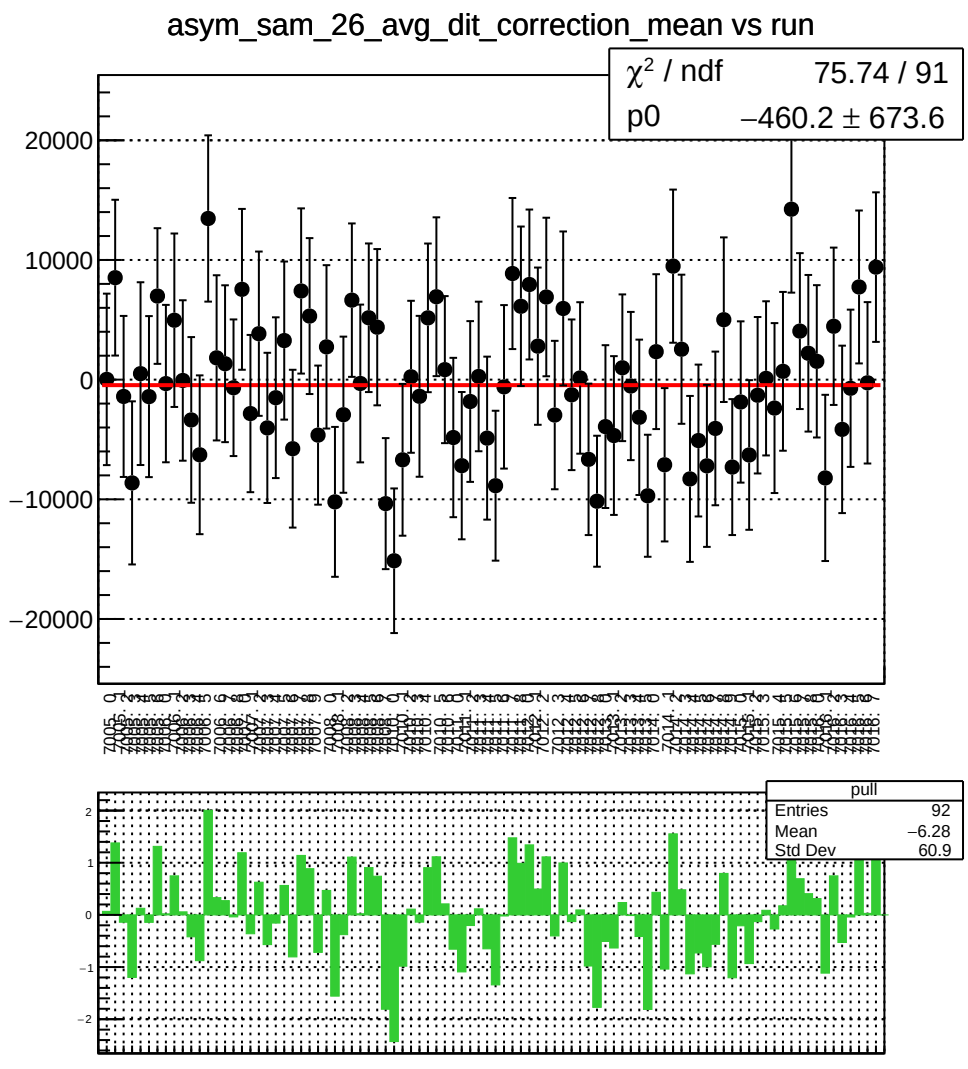

pull1D
Entries 92
Mean 0.01684
Std Dev 0.907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

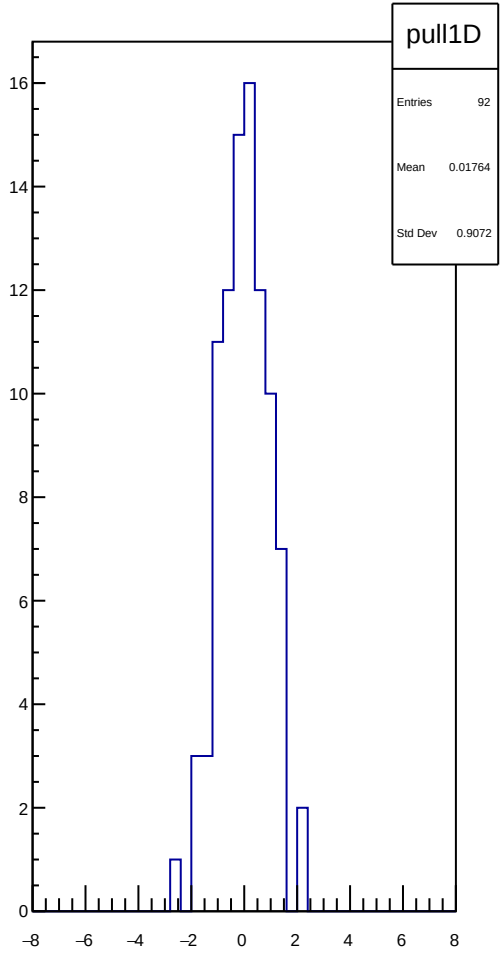

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 5672 / 91
p0 585.8 ± 0.4481
720
700
680
660
640
620
600
580
560
540
520

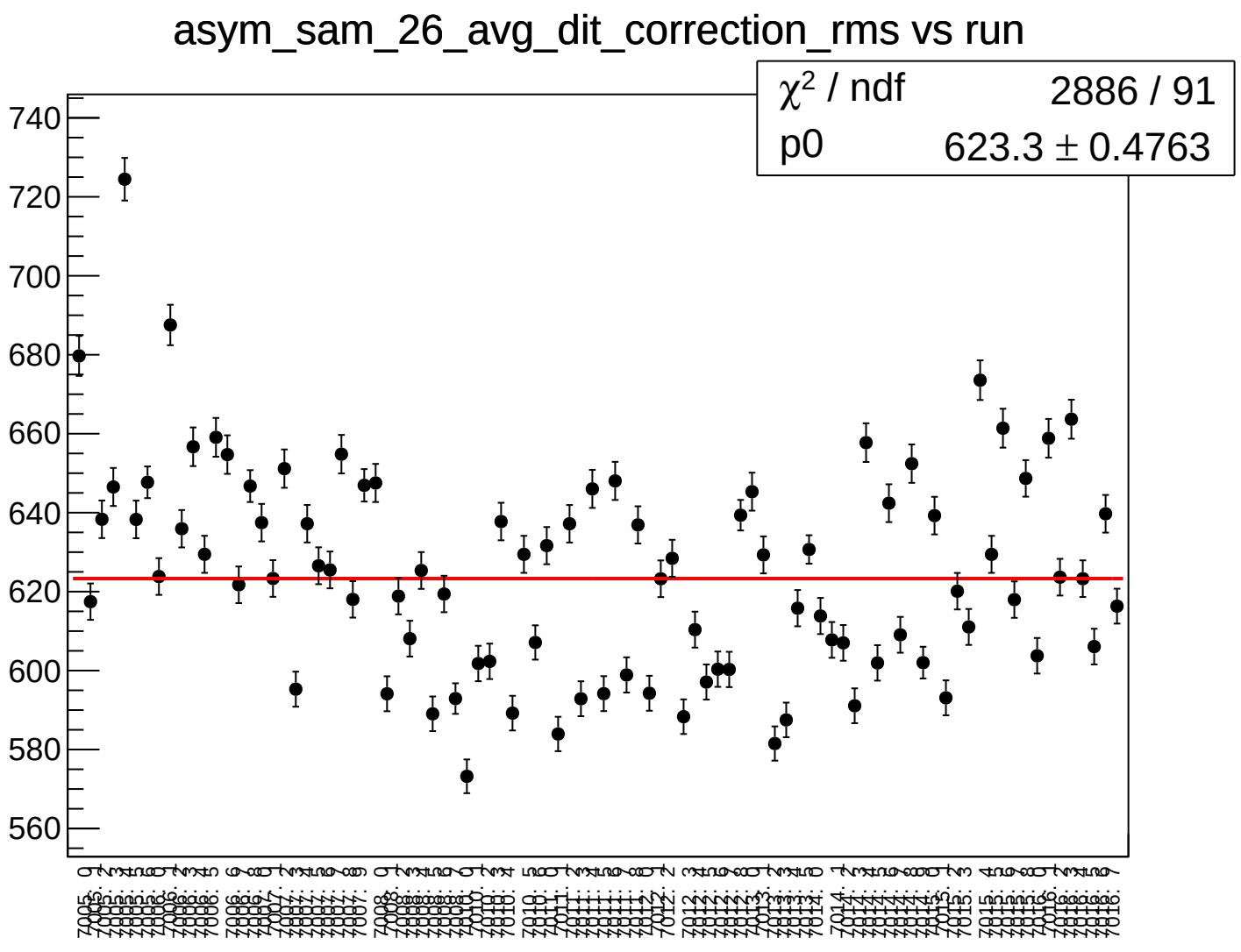

dit_asym_sam_26_avg_mean vs run
χ² / ndf 92.32 / 91
p0 −214 ± 109.4
pull
Entries 92
Mean −834.1
Std Dev 0

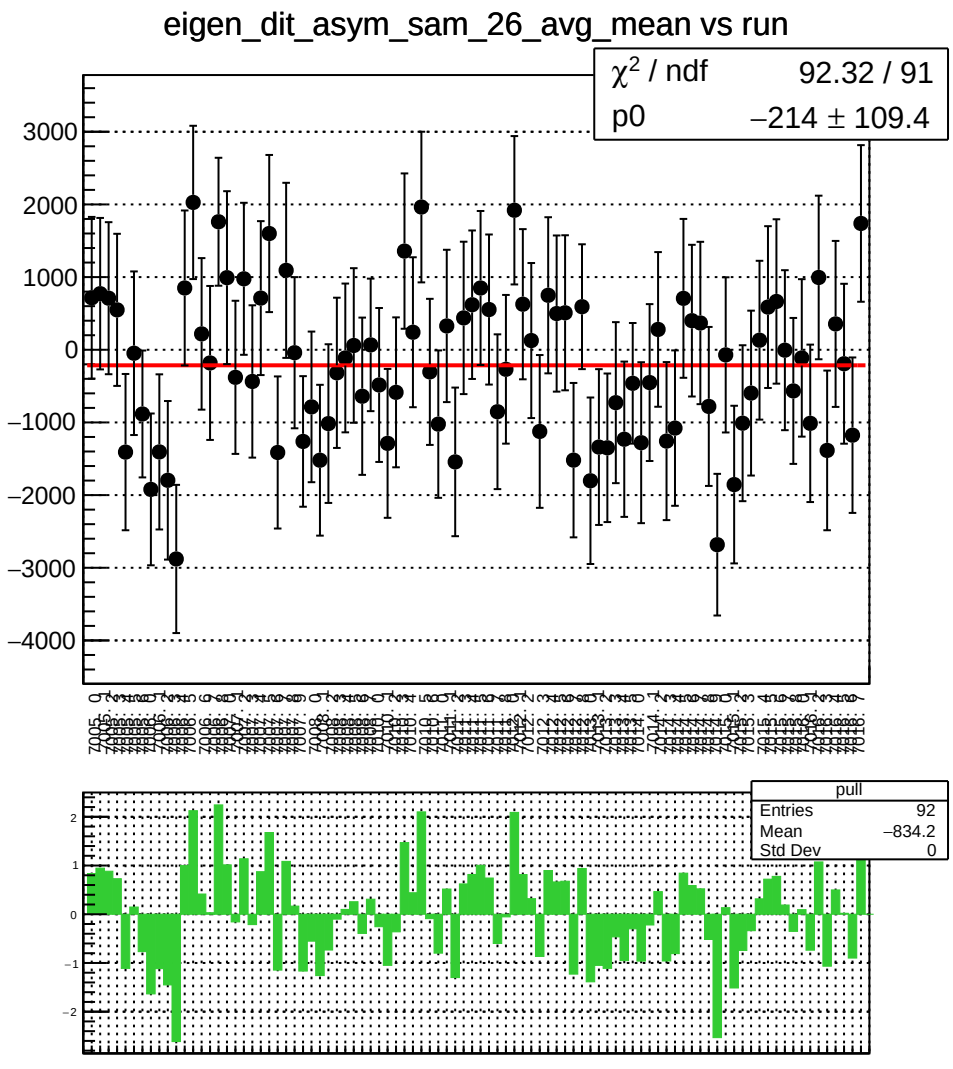

pull1D
Entries 92
Mean 0.002435
Std Dev 1.002

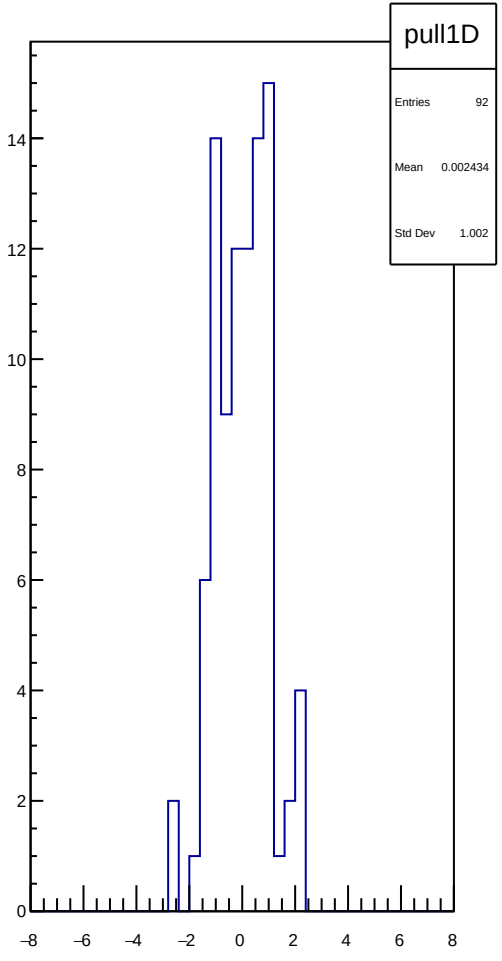

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1756 / 91
p0 101.2 ± 0.07733
115
110
105
100
95

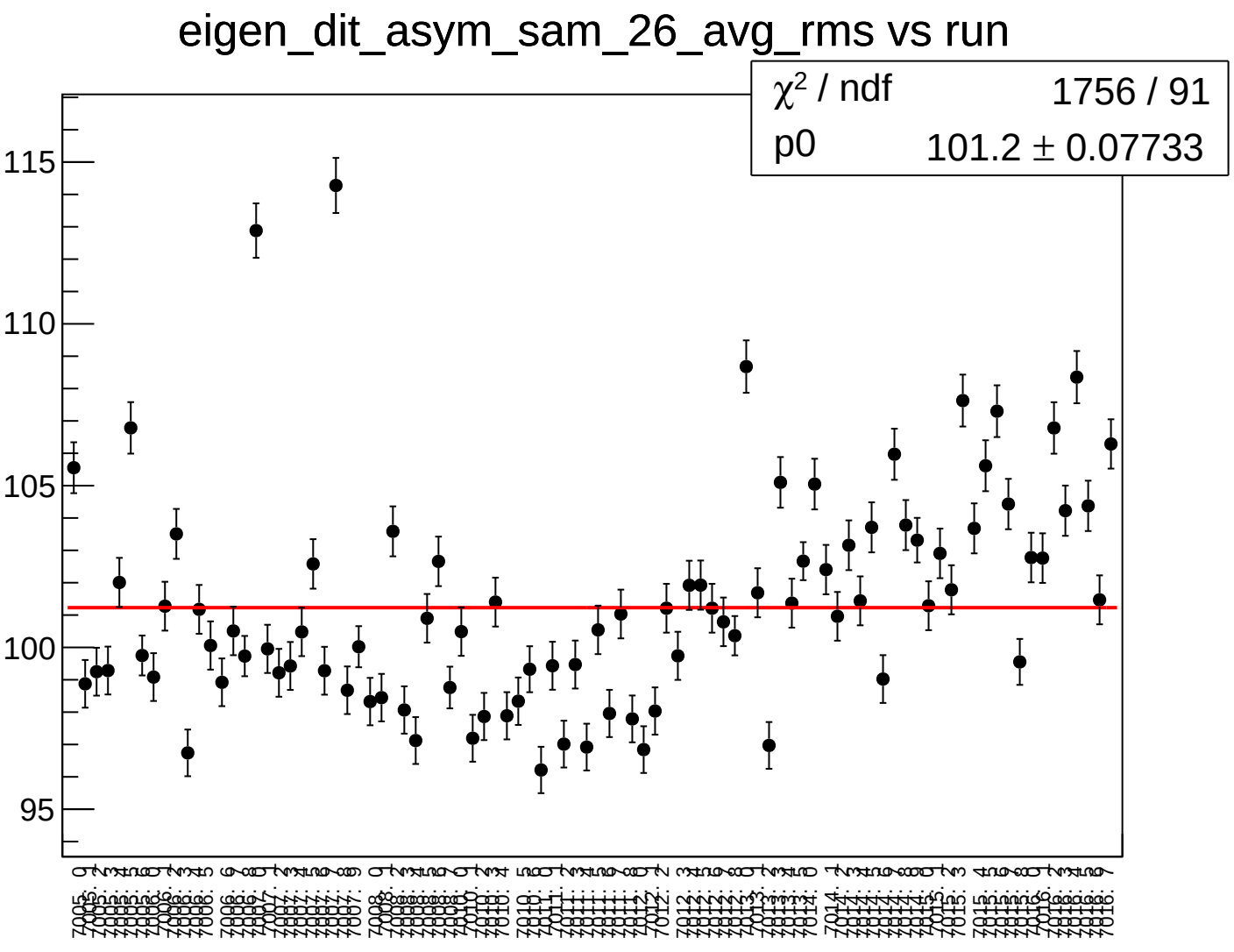

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 75.74 / 91
p0 −460.2 ± 673.6
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −6.28
Std Dev 60.9
2
1
0
−1
−2

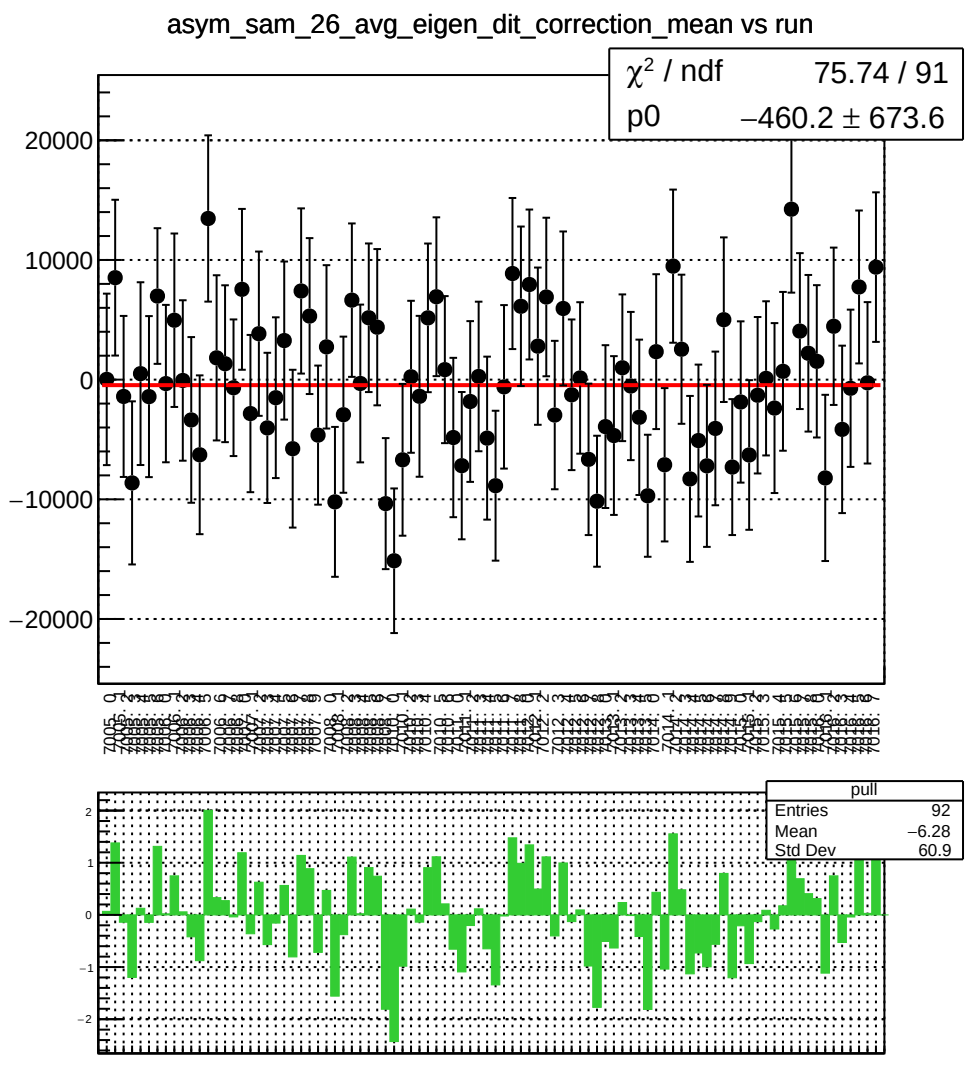

pull1D
Entries 92
Mean 0.01764
Std Dev 0.9072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

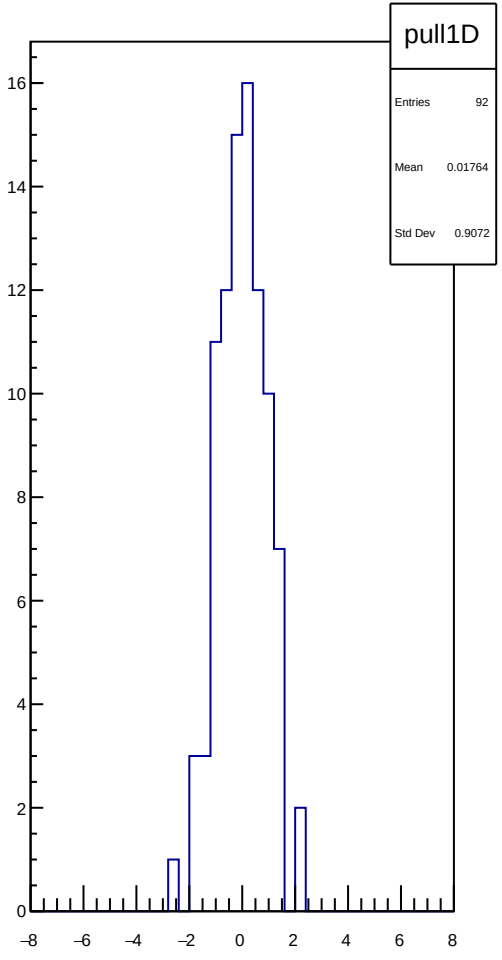

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 2886 / 91
p0 623.3 ± 0.4763
740
720
700
680
660
640
620
600
580
560

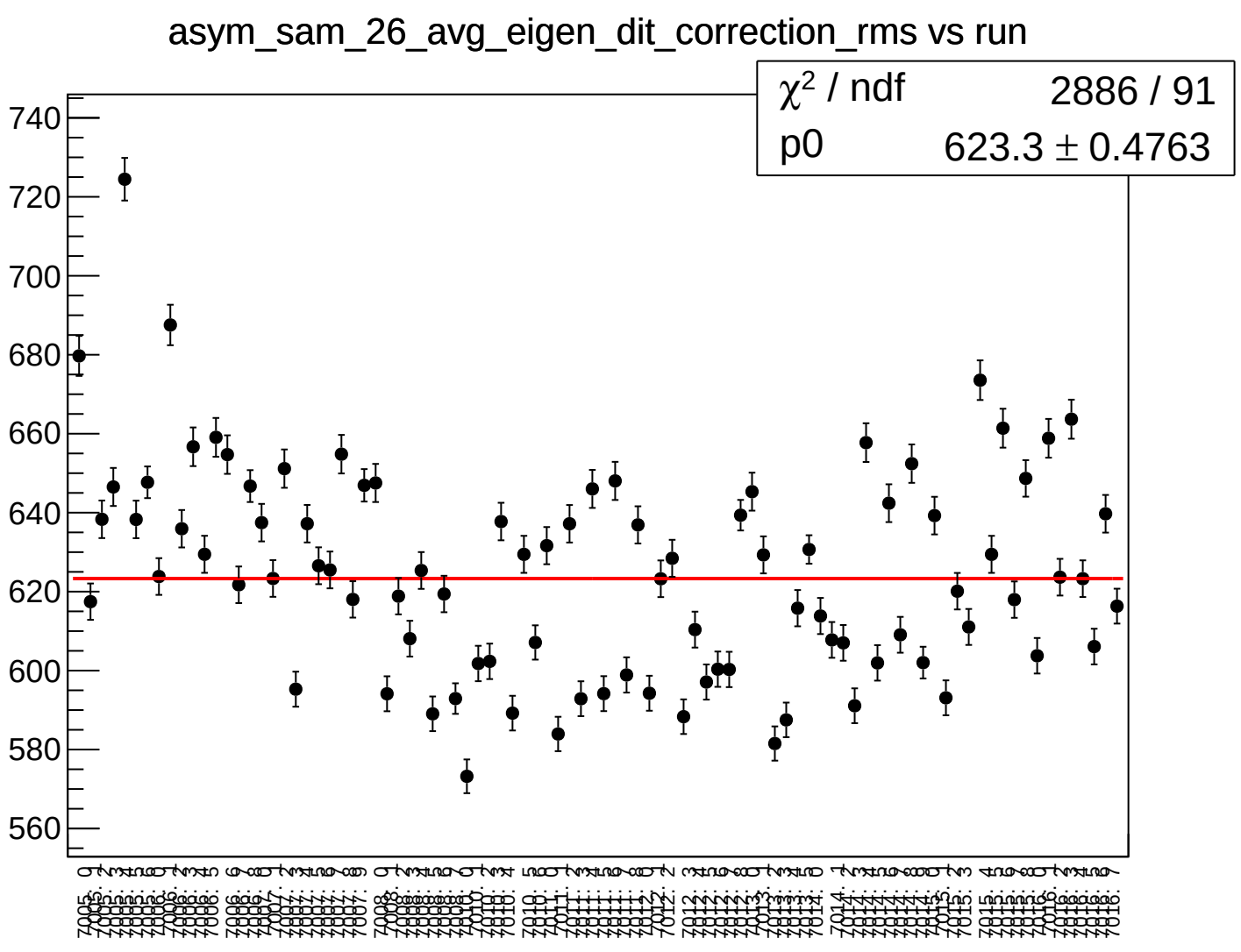

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 92.32 / 91
p0 −214 ± 109.4
pull
Entries 92
Mean −834.2
Std Dev 0

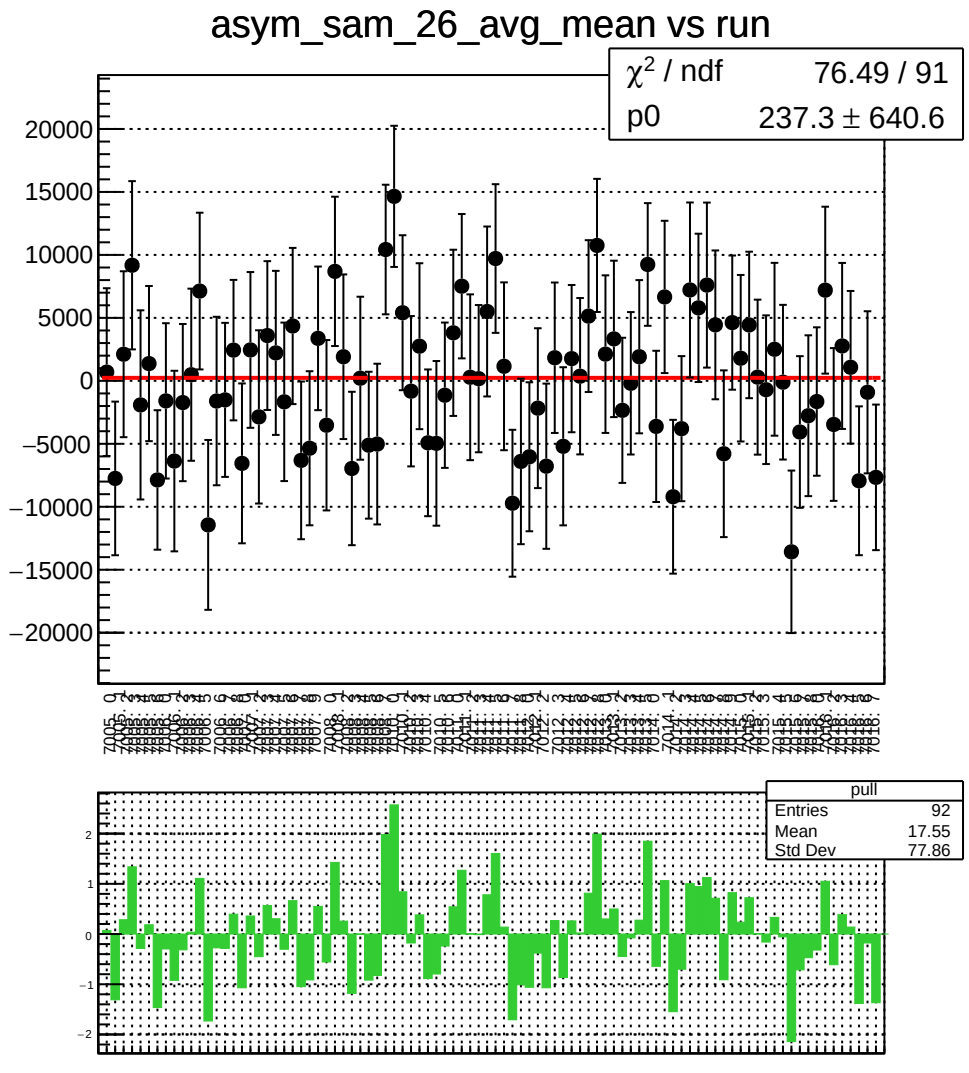

pull1D
Entries 92
Mean 0.002434
Std Dev 1.002

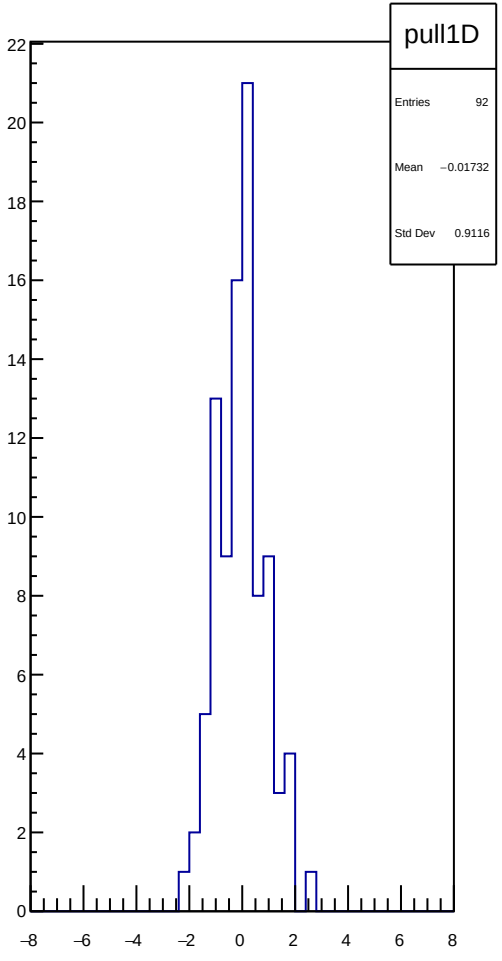

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1756 / 91
p0 101.2 ± 0.07733
115
110
105
100
95

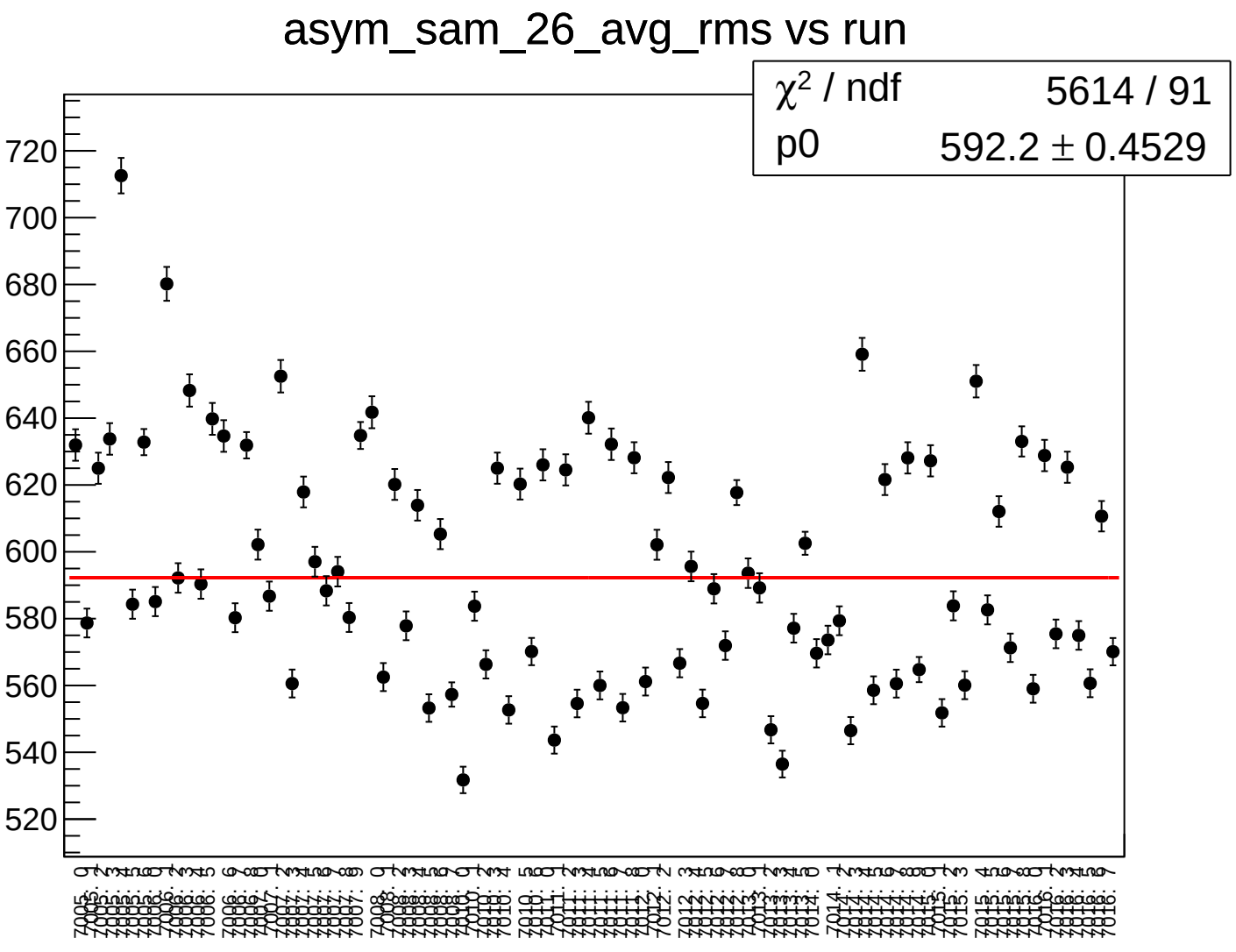

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.74 / 91
p0 −460.2 ± 673.6
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −6.28
Std Dev 60.9
2
1
0
−1
−2

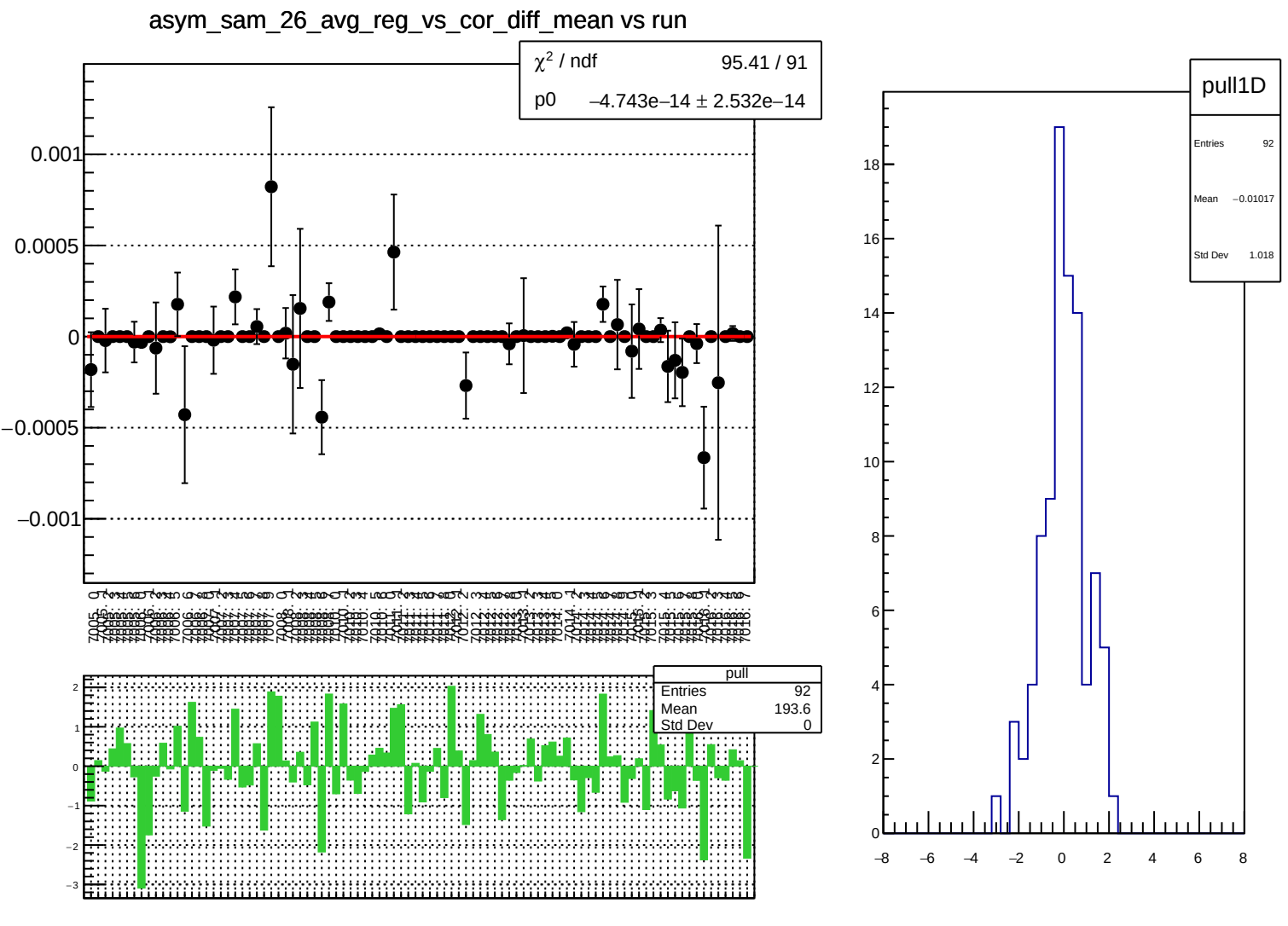

pull1D
Entries 92
Mean 0.01764
Std Dev 0.9072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

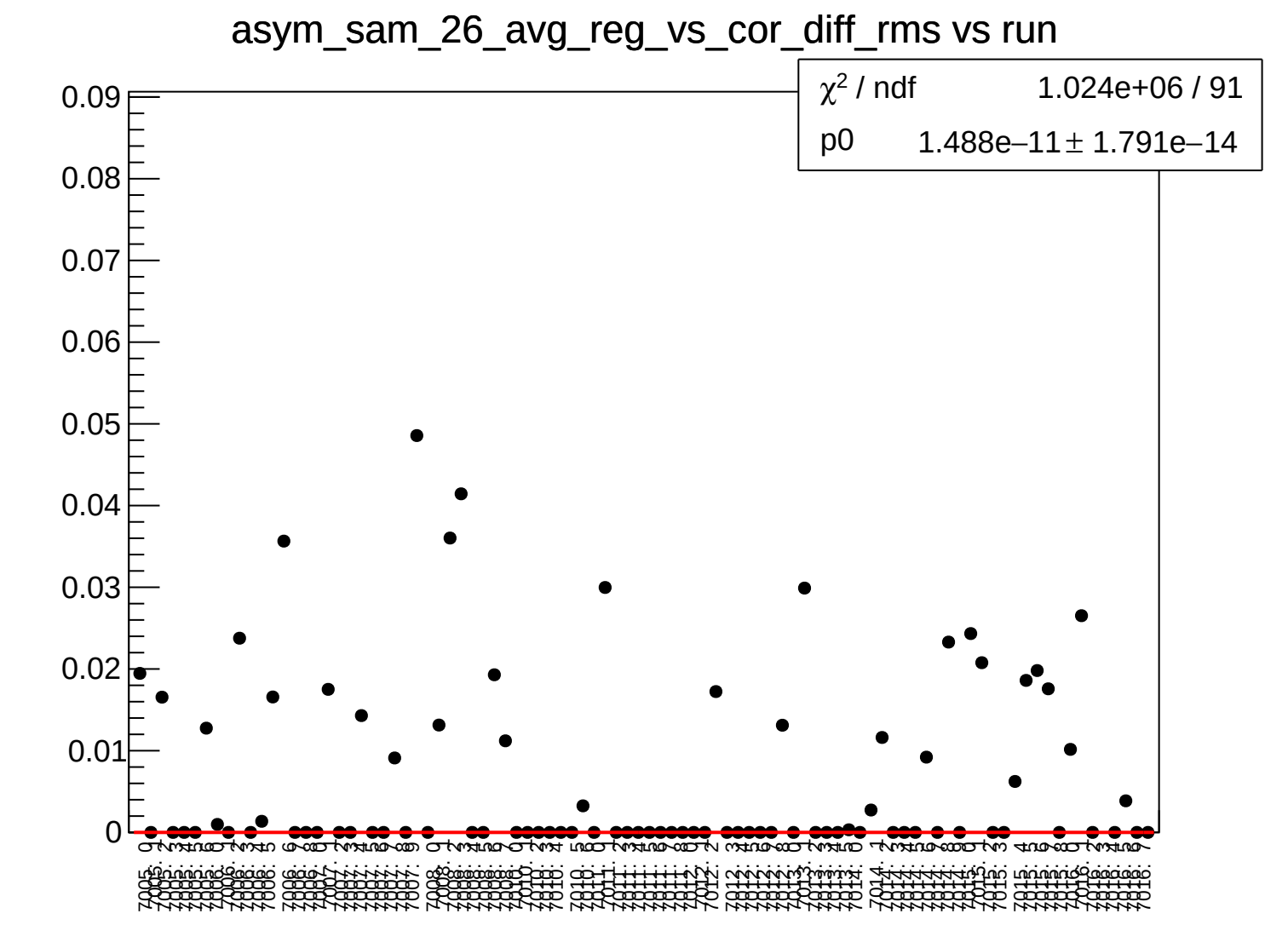

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 2886 / 91
p0 623.3 ± 0.4763
740
720
700
680
660
640
620
600
580
560

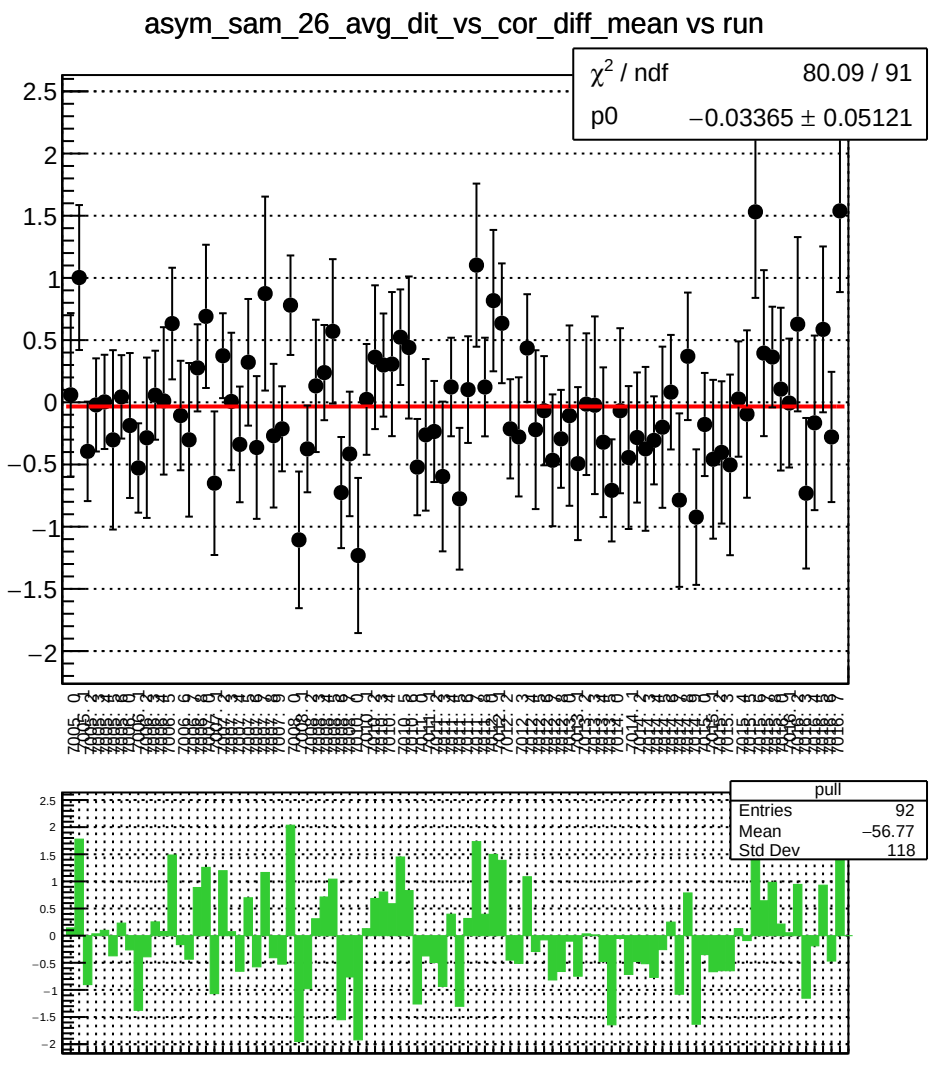

asym_sam_26_avg_mean vs run
χ² / ndf 76.49 / 91
p0 237.3 ± 640.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 17.55
Std Dev 77.86
2
1
0
−1
−2

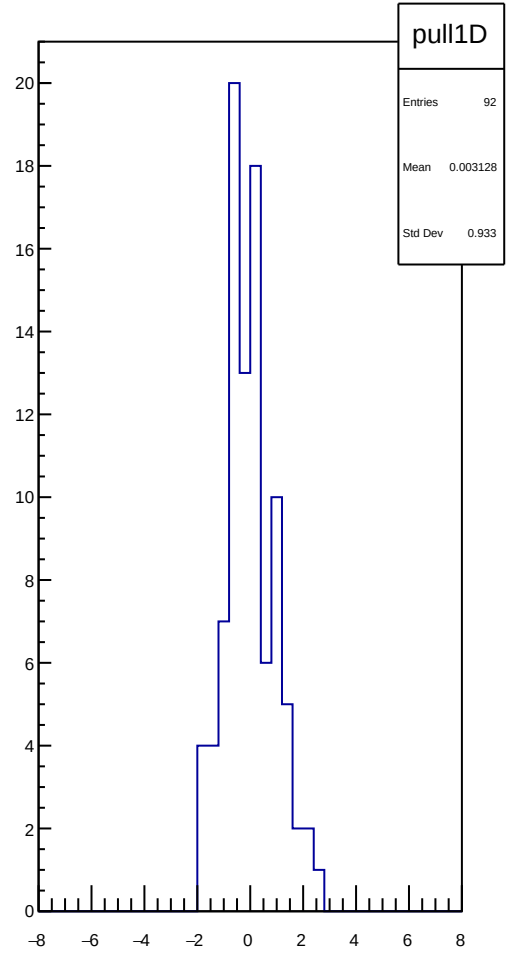

pull1D
Entries 92
Mean −0.01732
Std Dev 0.9116
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

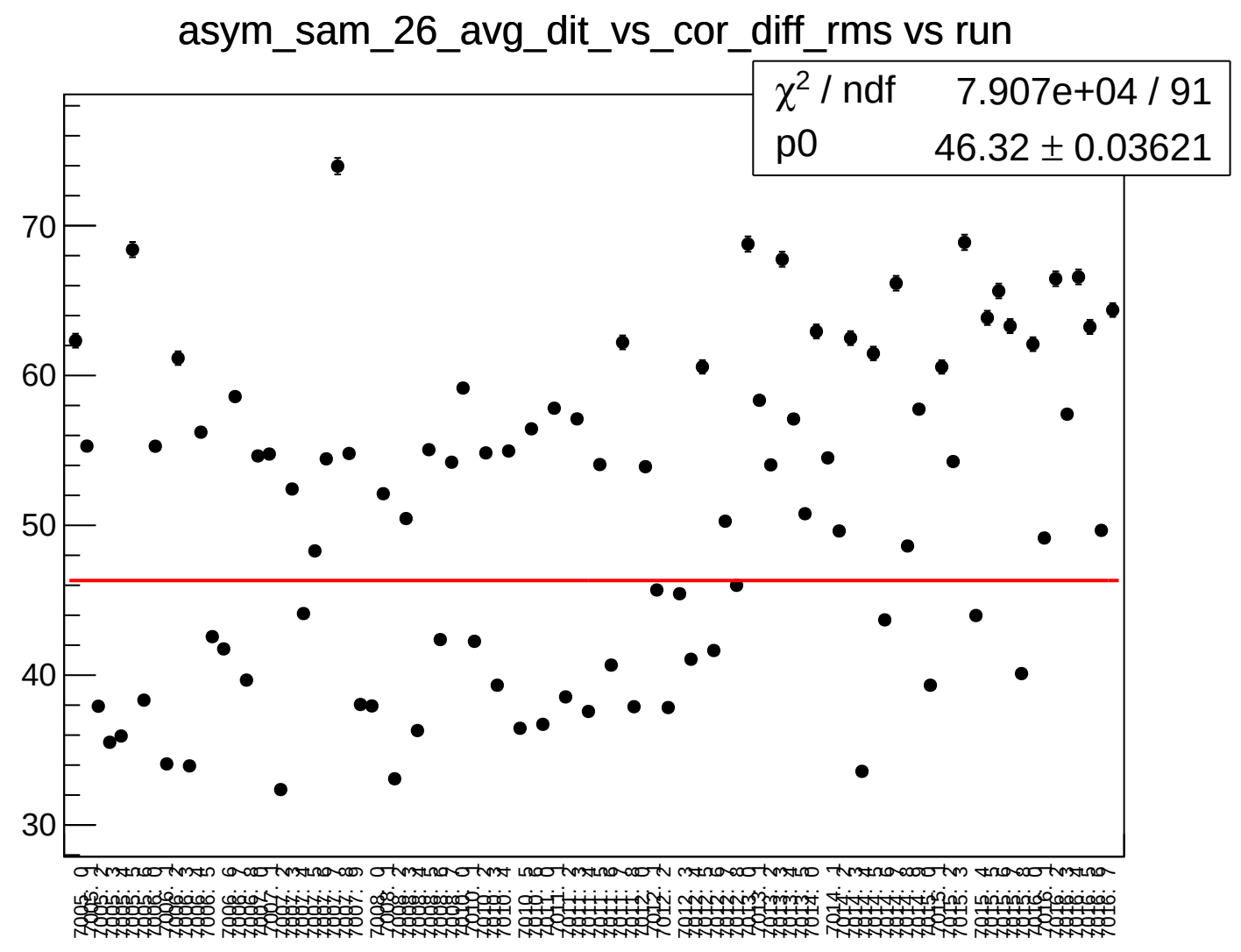

asym_sam_26_avg_rms vs run
χ² / ndf 5614 / 91
p0 592.2 ± 0.4529
720
700
680
660
640
620
600
580
560
540
520

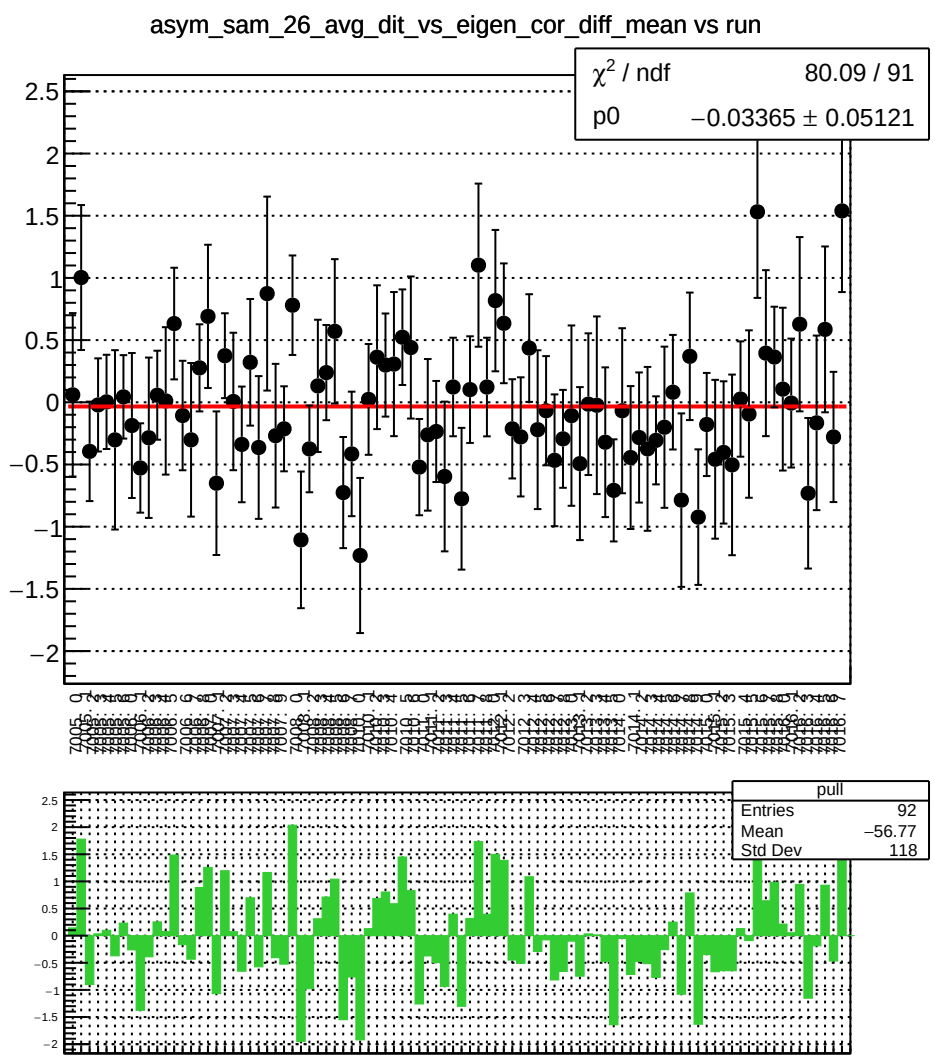

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.41 / 91
p0 −4.743e−14 ± 2.532e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 193.6
Std Dev 0
pull1D
Entries 92
Mean −0.01017
Std Dev 1.018

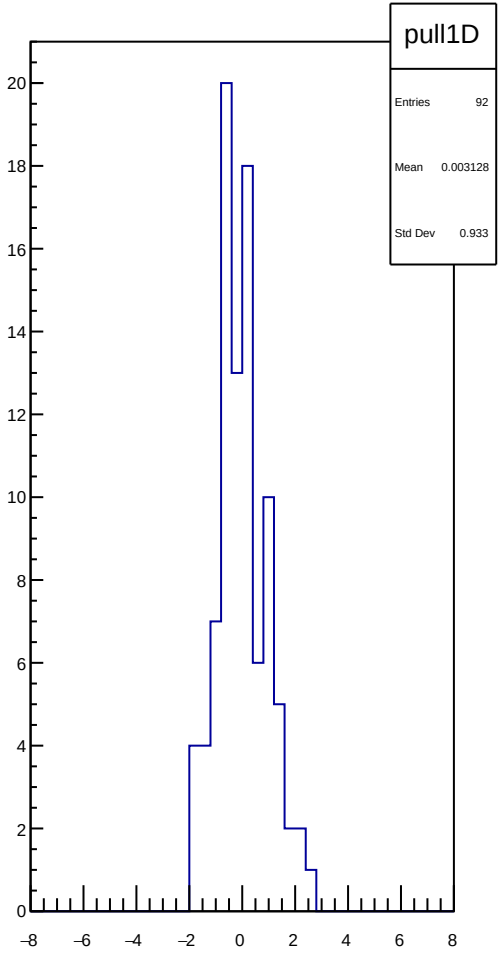

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 91
p0 1.488e−11 ± 1.791e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

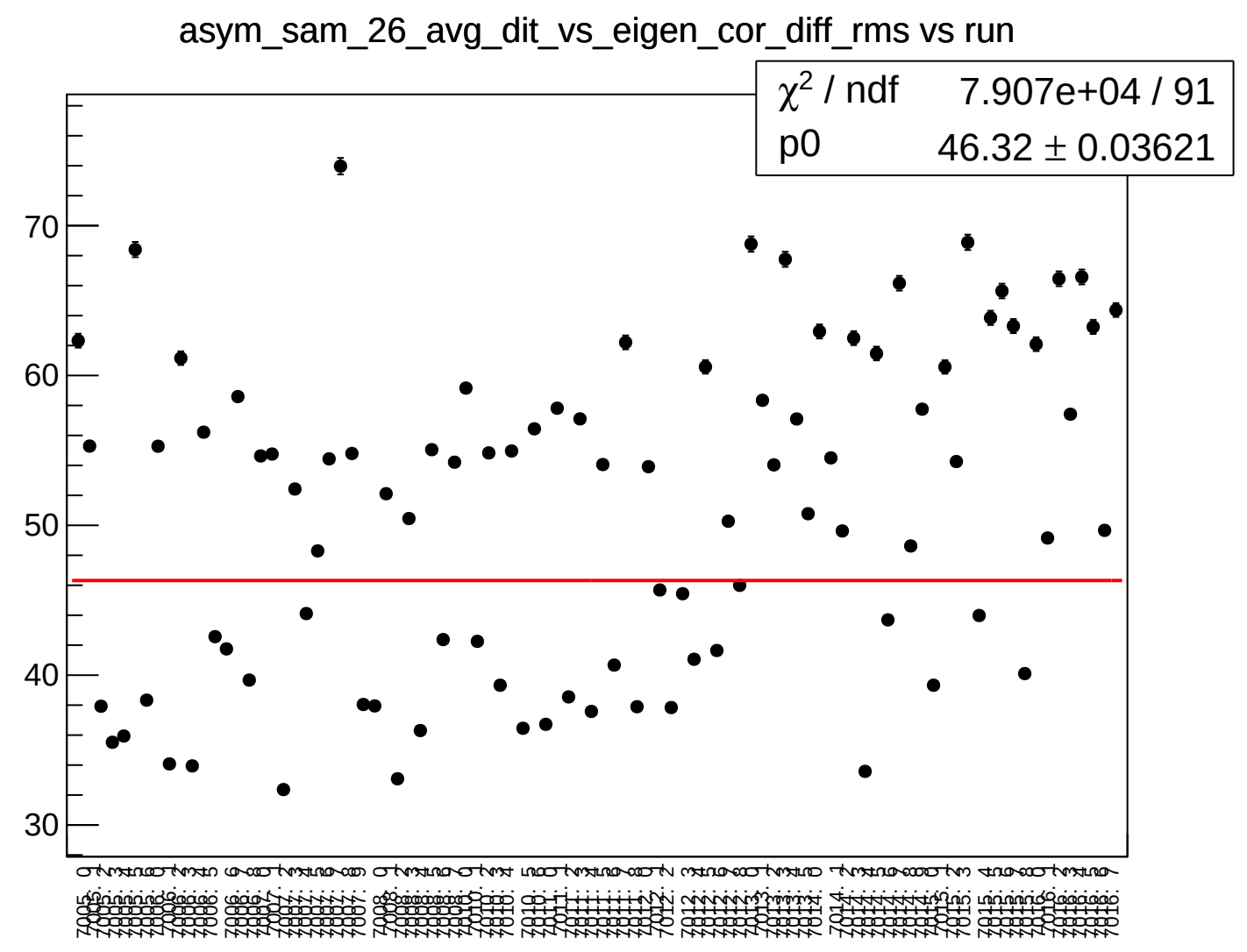

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.09 / 91
p0 −0.03365 ± 0.05121
pull
Entries 92
Mean −56.77
Std Dev 118

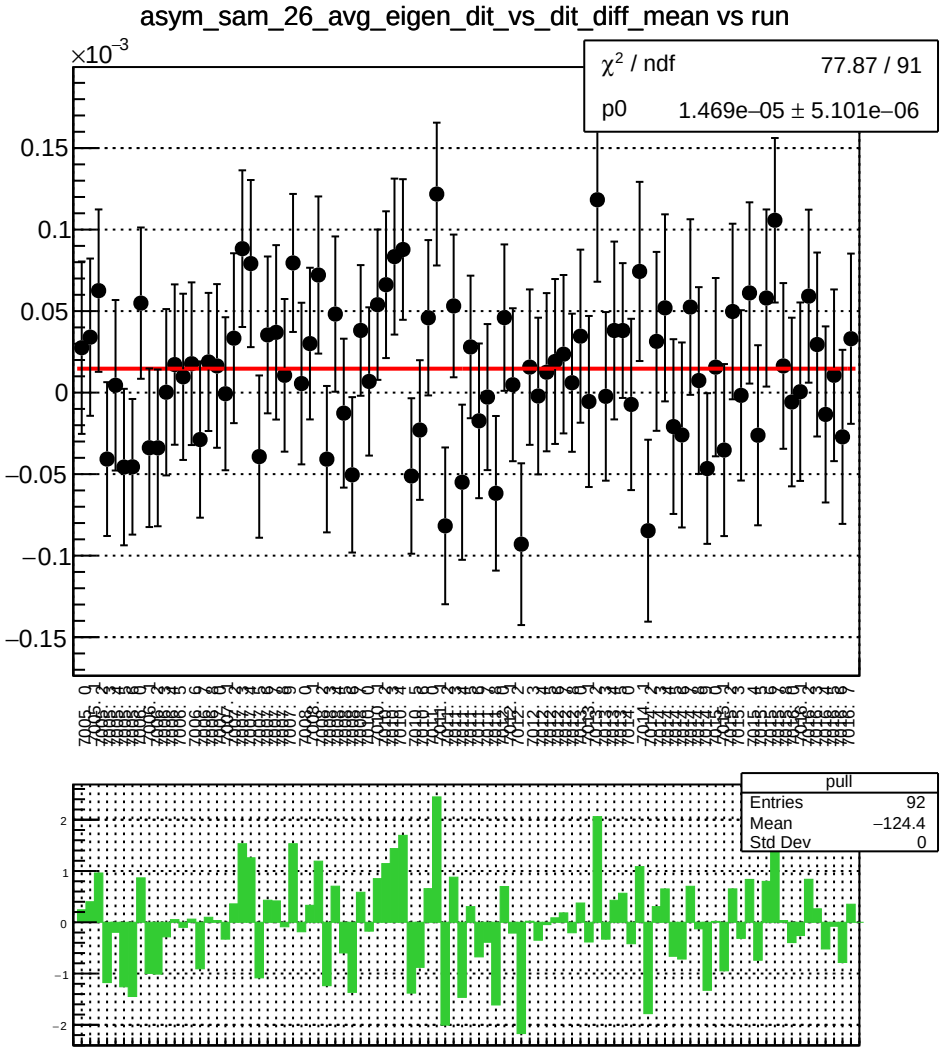

pull1D
Entries 92
Mean 0.003128
Std Dev 0.933

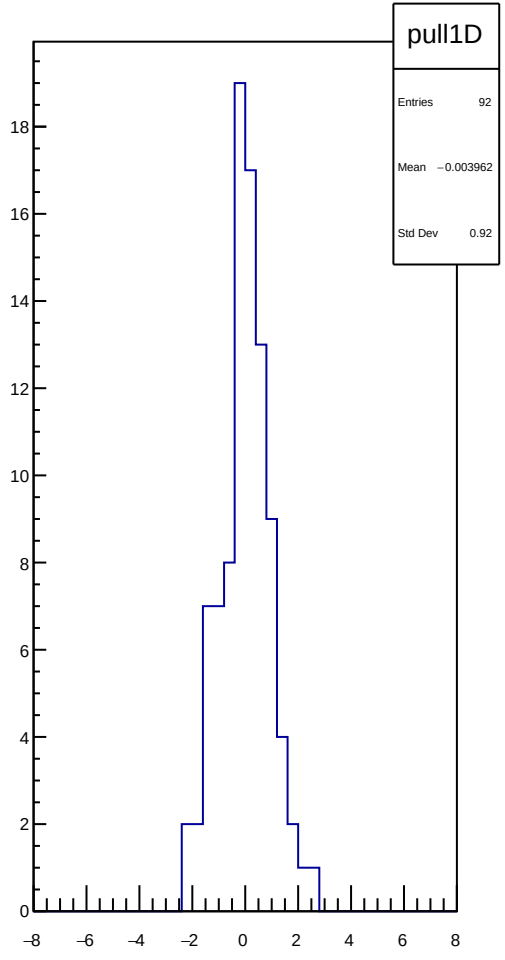

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.907e+04 / 91
p0 46.32 ± 0.03621
70
60
50
40
30

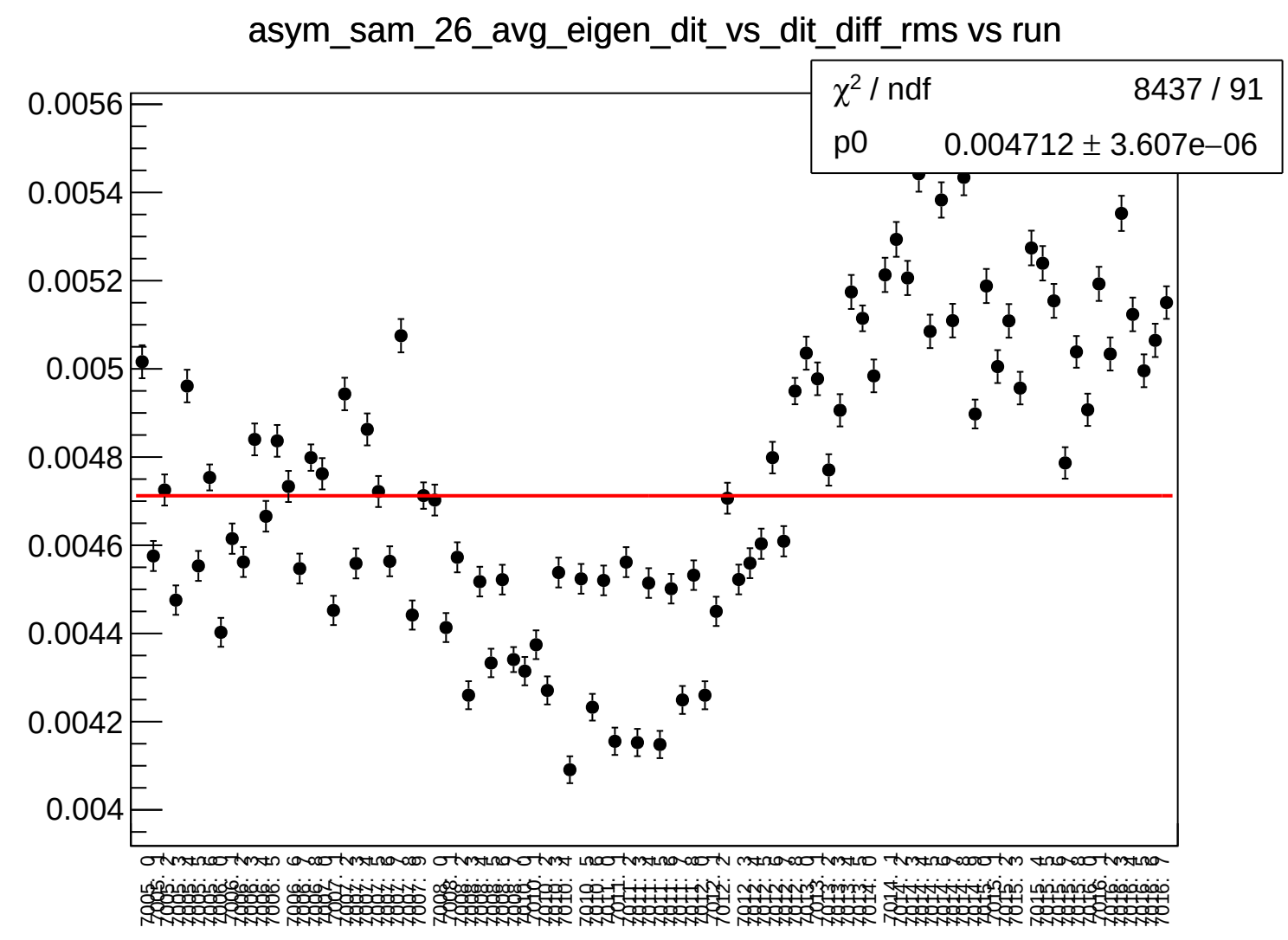

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.09 / 91
p0 −0.03365 ± 0.05121
pull
Entries 92
Mean −56.77
Std Dev 118

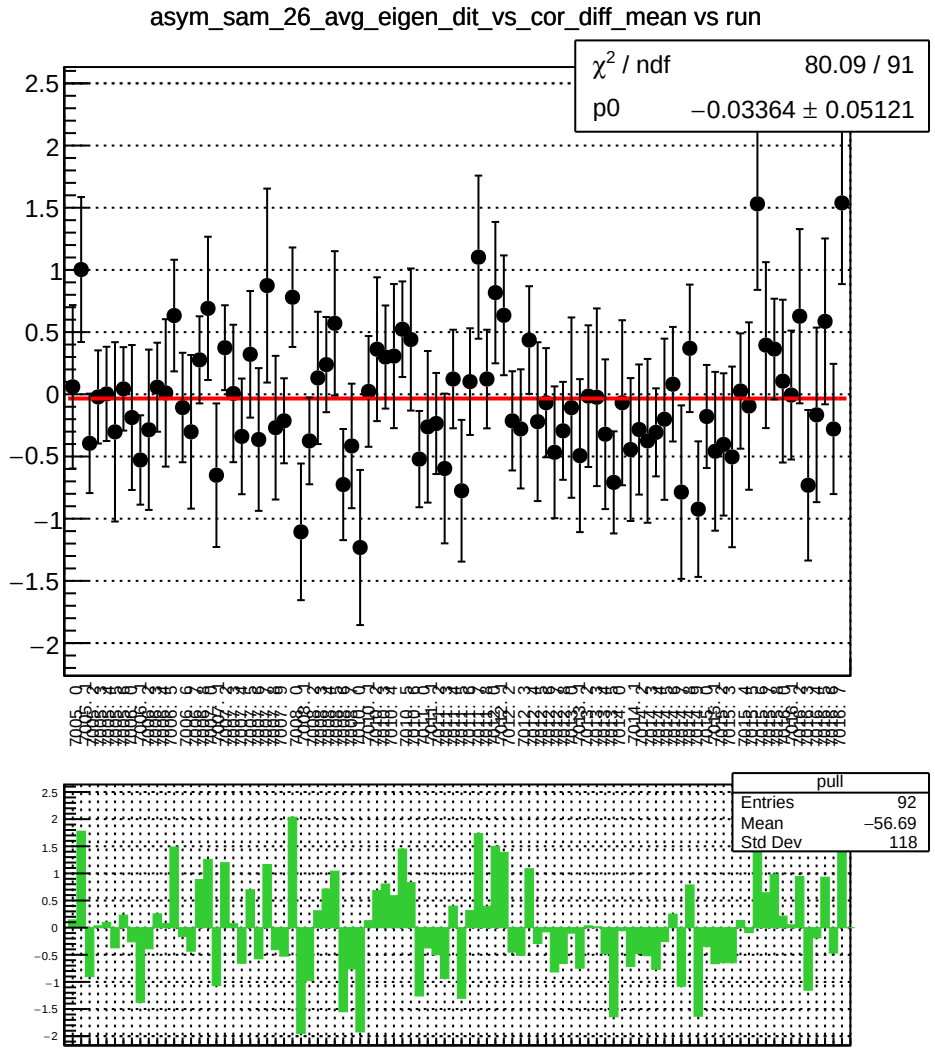

pull1D
Entries 92
Mean 0.003128
Std Dev 0.933

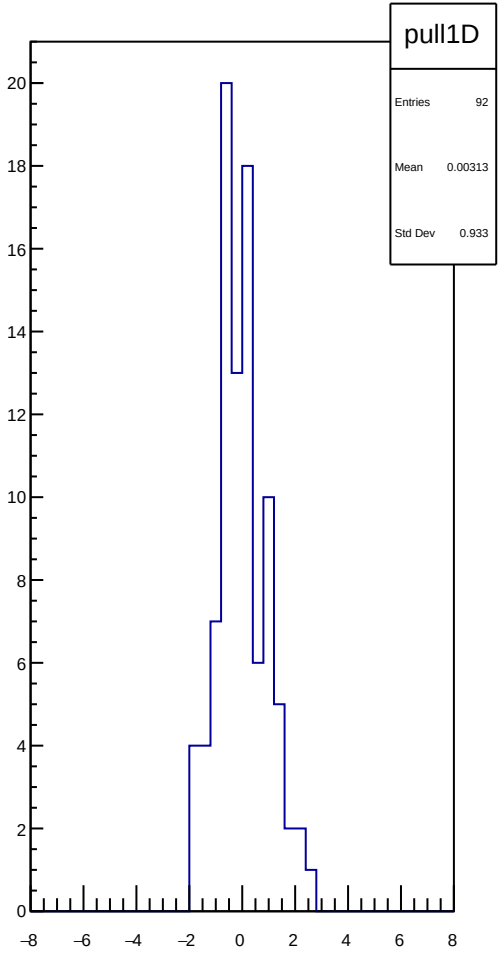

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.907e+04 / 91
p0 46.32 ± 0.03621
70
60
50
40
30

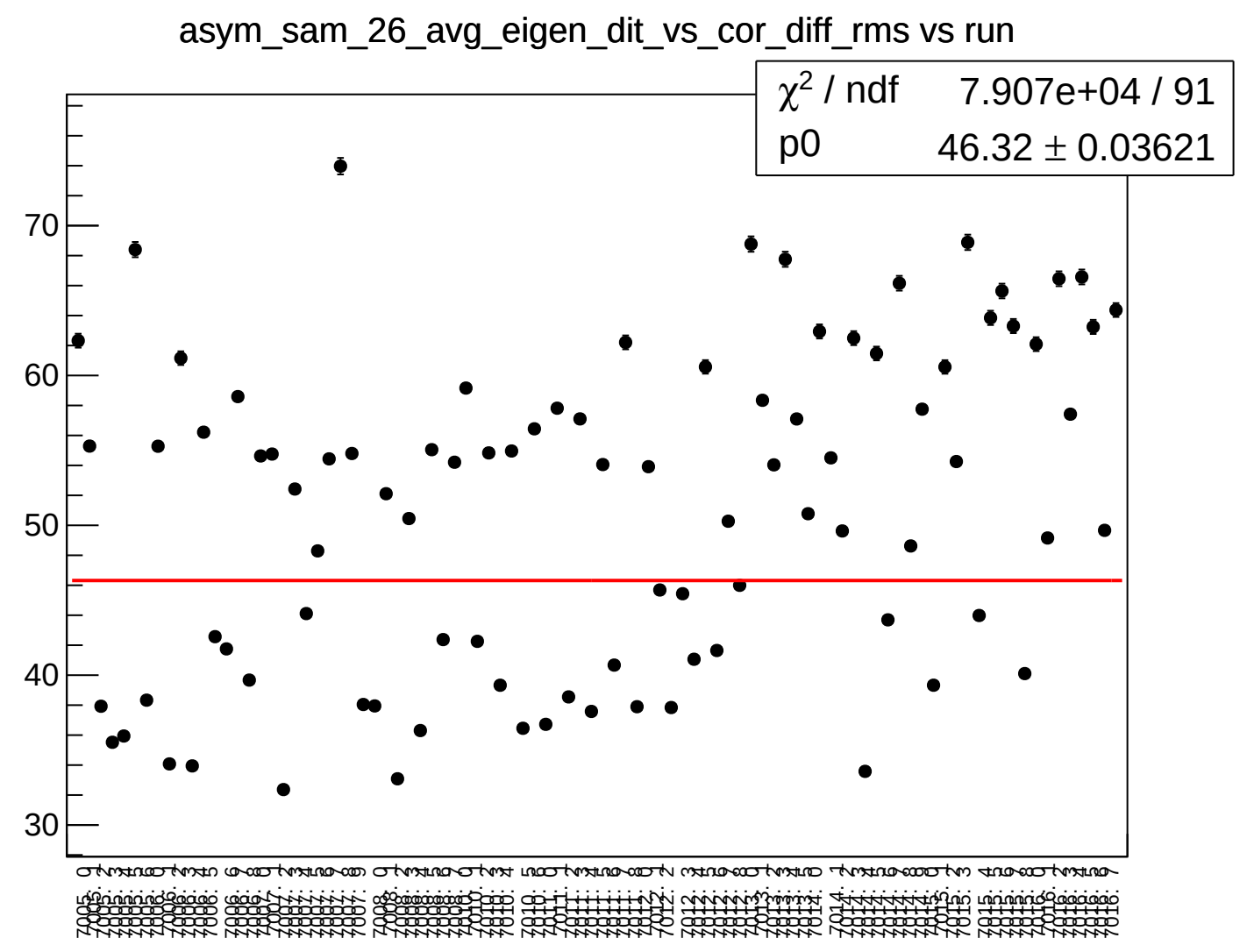

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.87 / 91
p0 1.469e−05 ± 5.101e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −124.4
Std Dev 0
2
1
0
−1
−2

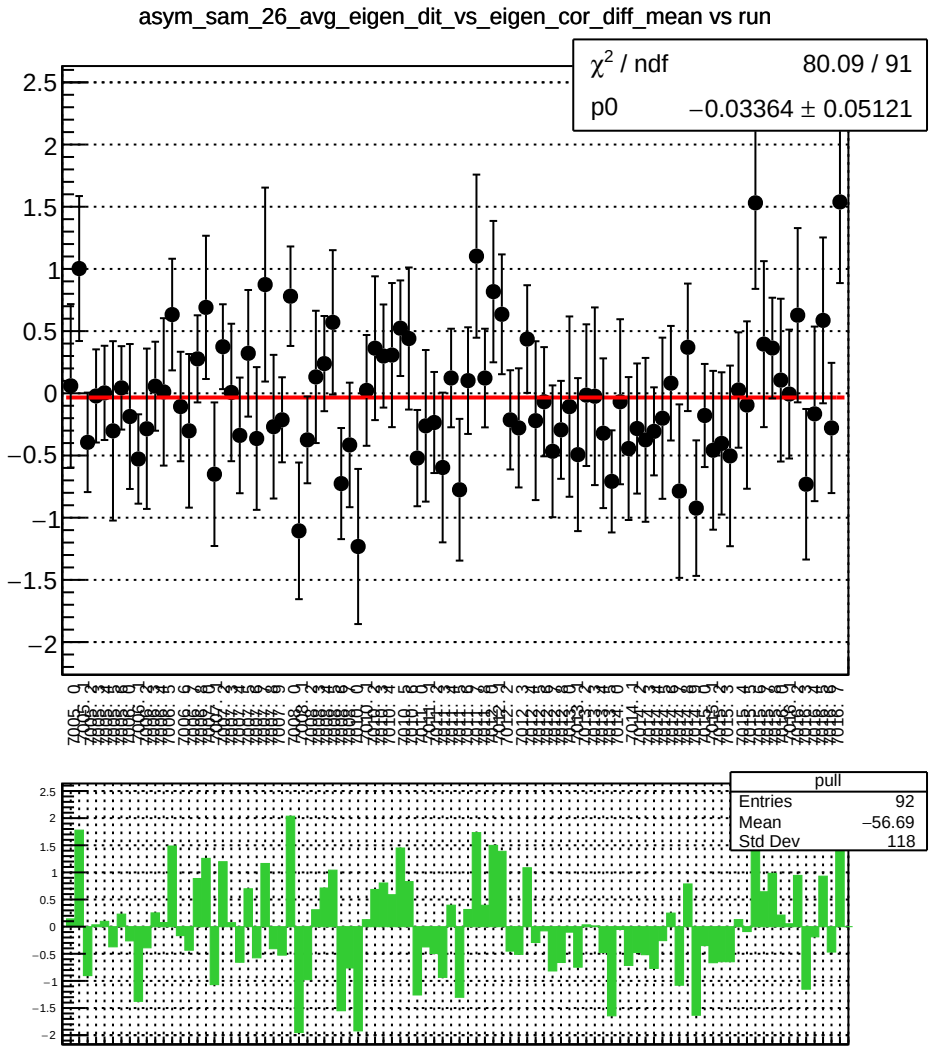

pull1D
Entries 92
Mean −0.003962
Std Dev 0.92
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

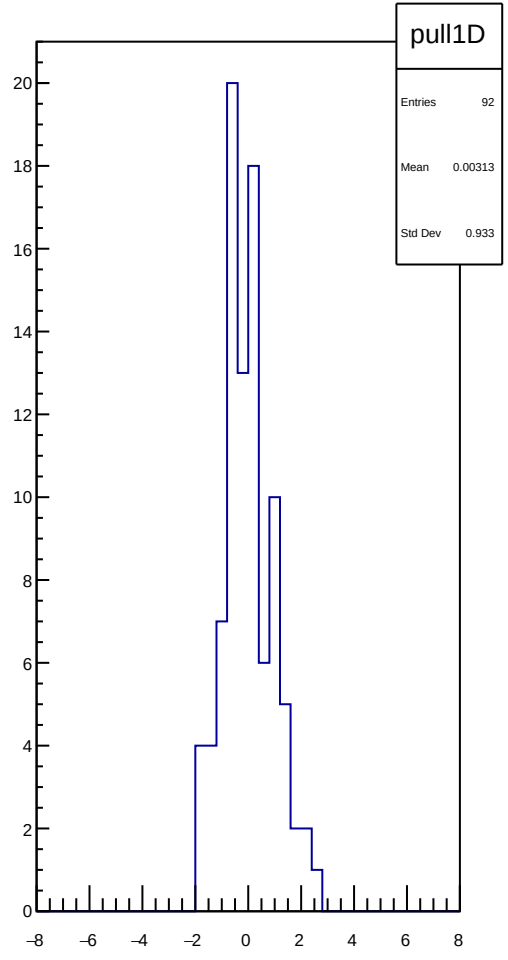

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8437 / 91
p0 0.004712 ± 3.607e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

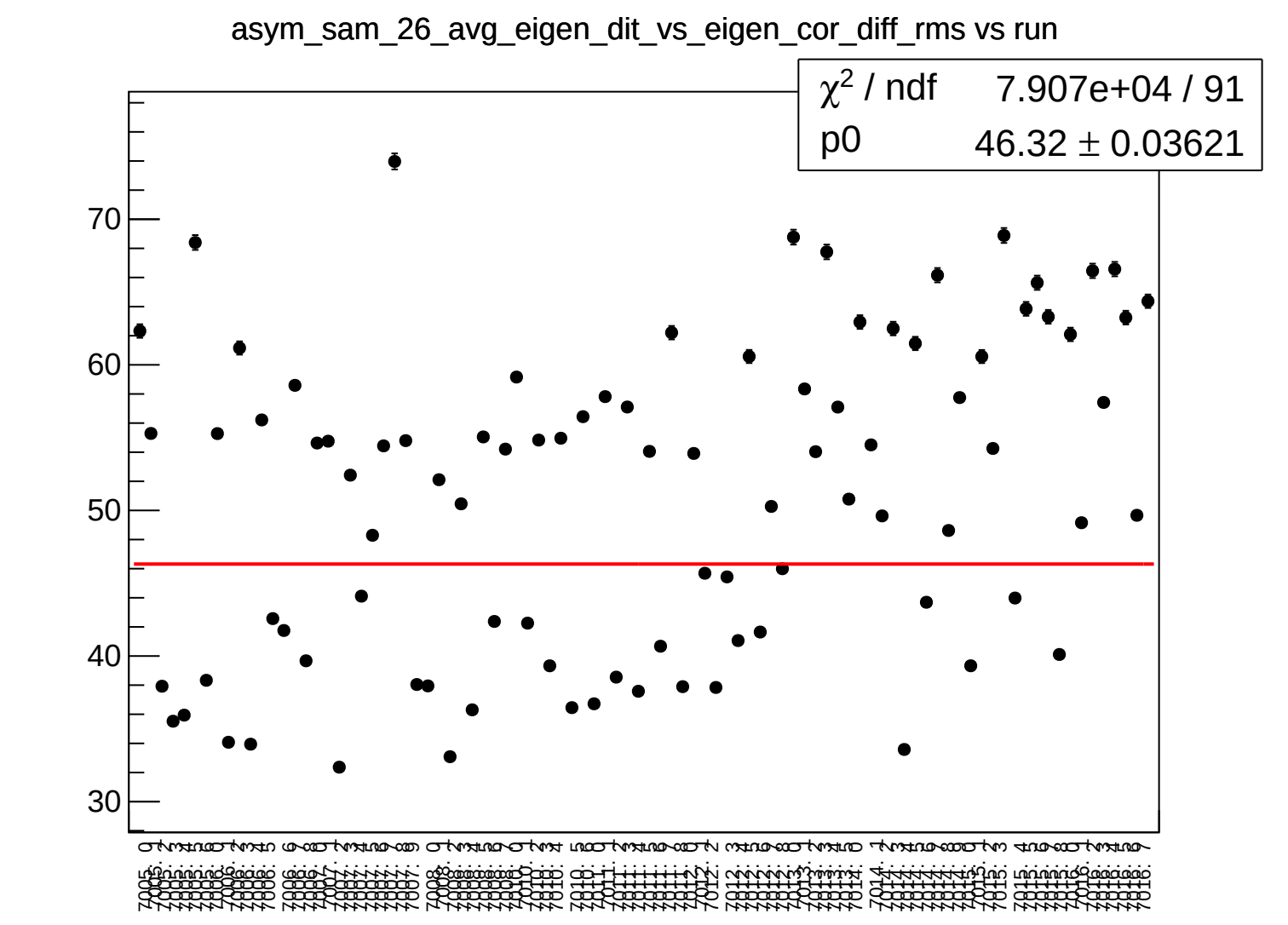

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.09 / 91
p0 −0.03364 ± 0.05121
pull
Entries 92
Mean −56.69
Std Dev 118

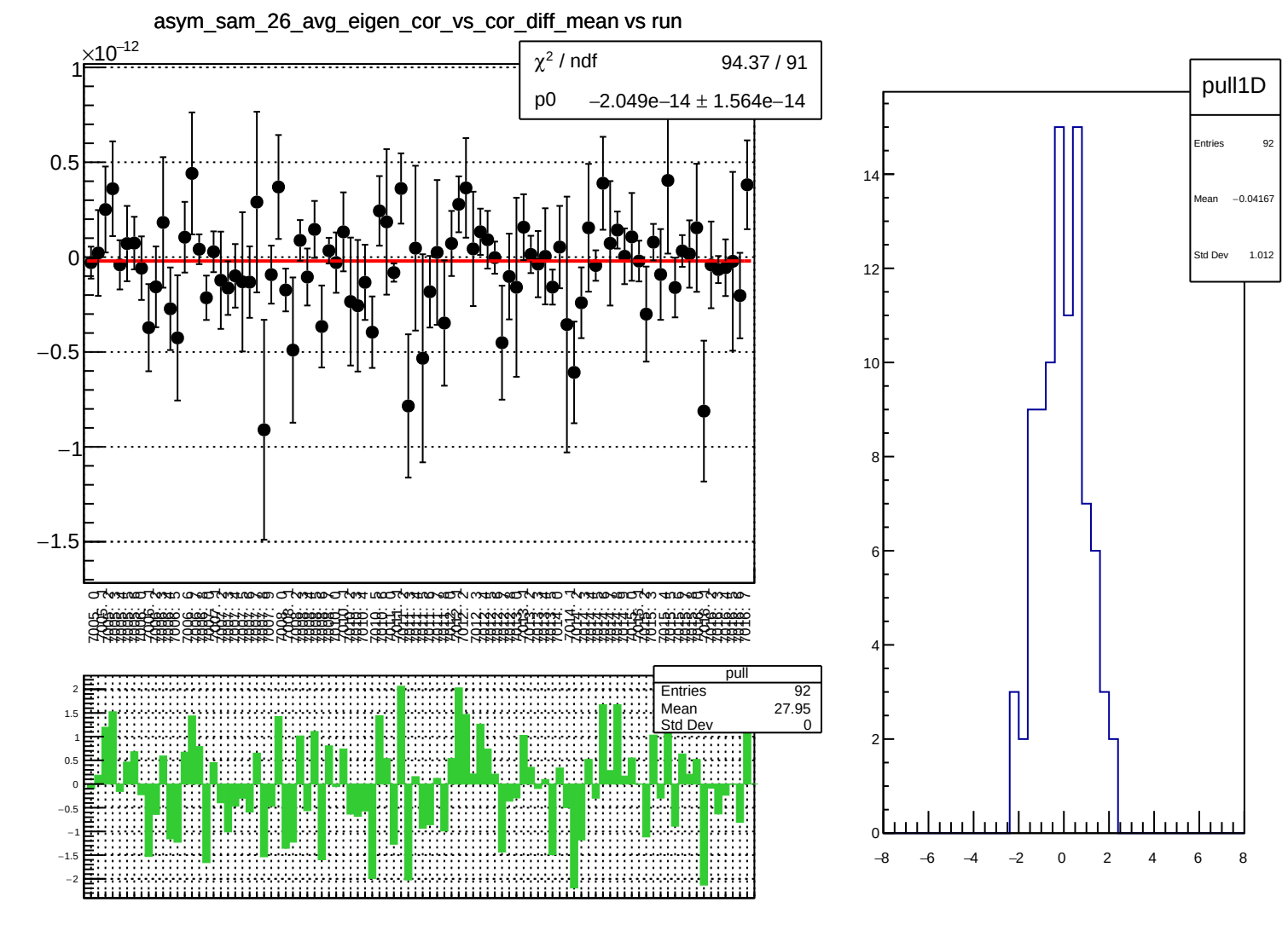

pull1D
Entries 92
Mean 0.00313
Std Dev 0.933

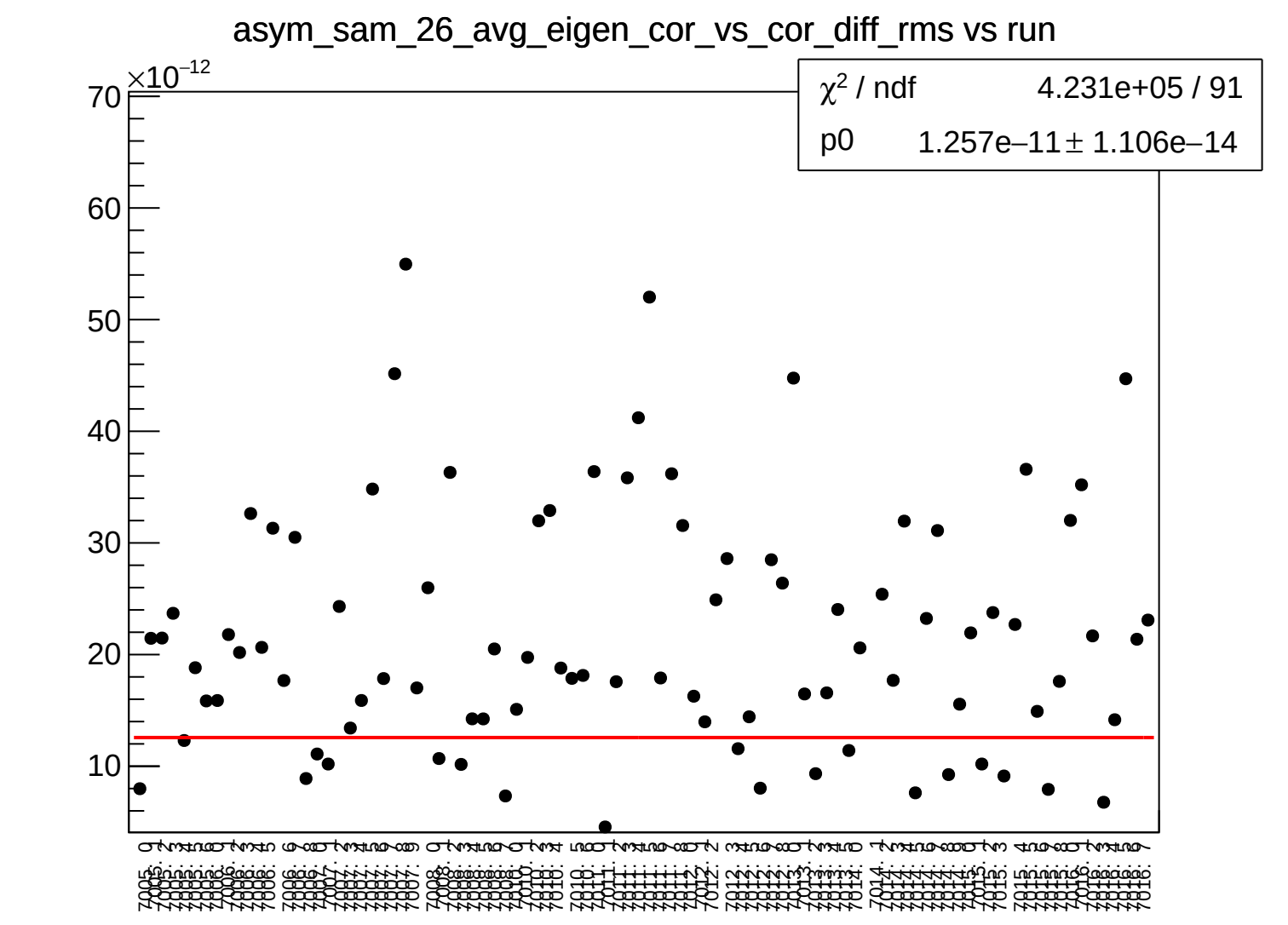

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.907e+04 / 91
p0 46.32 ± 0.03621
70
60
50
40
30

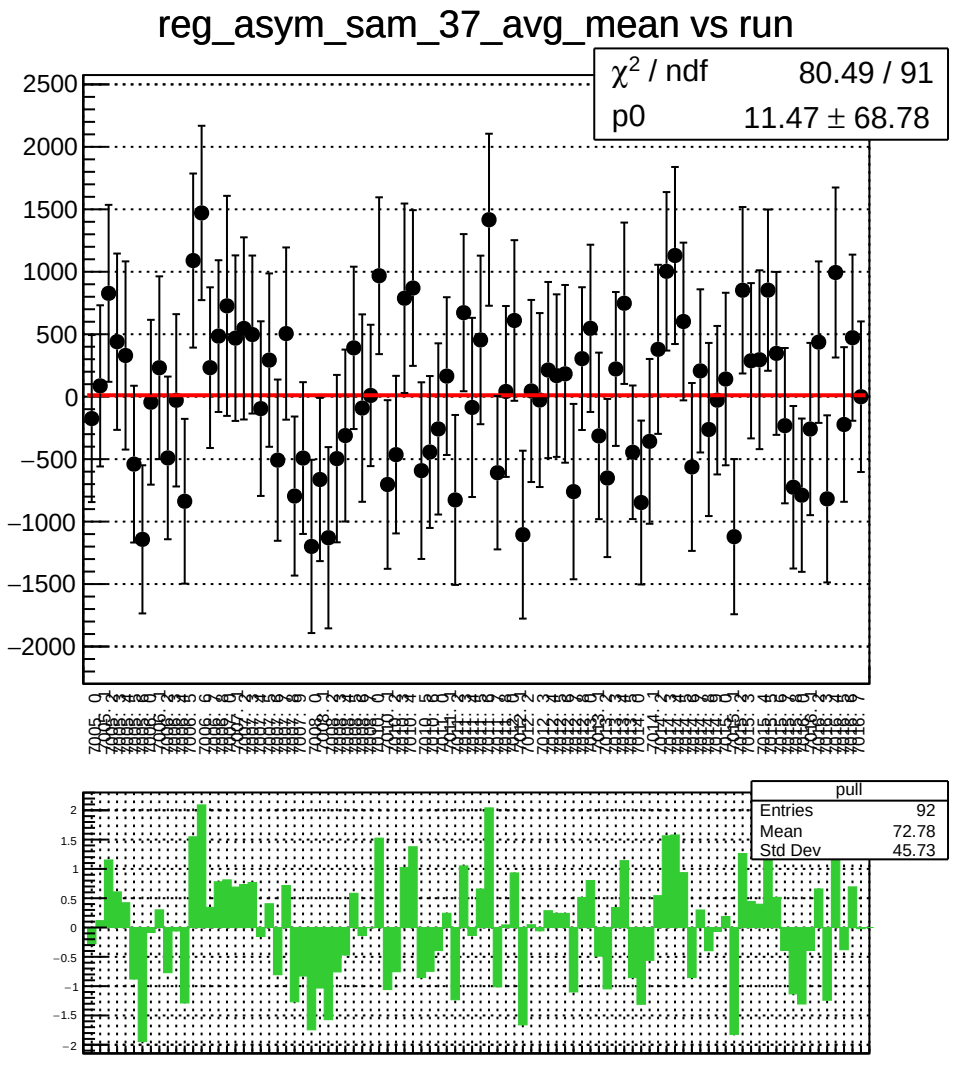

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.09 / 91
p0 −0.03364 ± 0.05121
pull
Entries 92
Mean −56.69
Std Dev 118

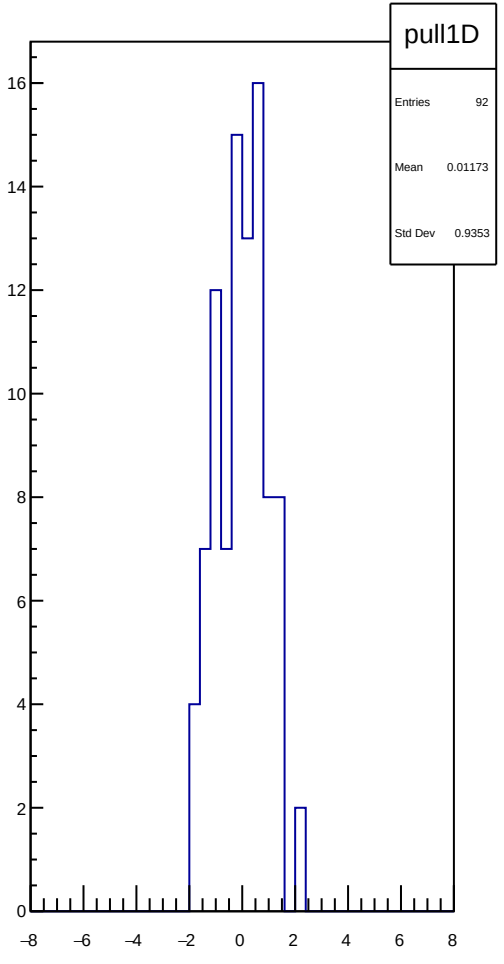

pull1D
Entries 92
Mean 0.00313
Std Dev 0.933

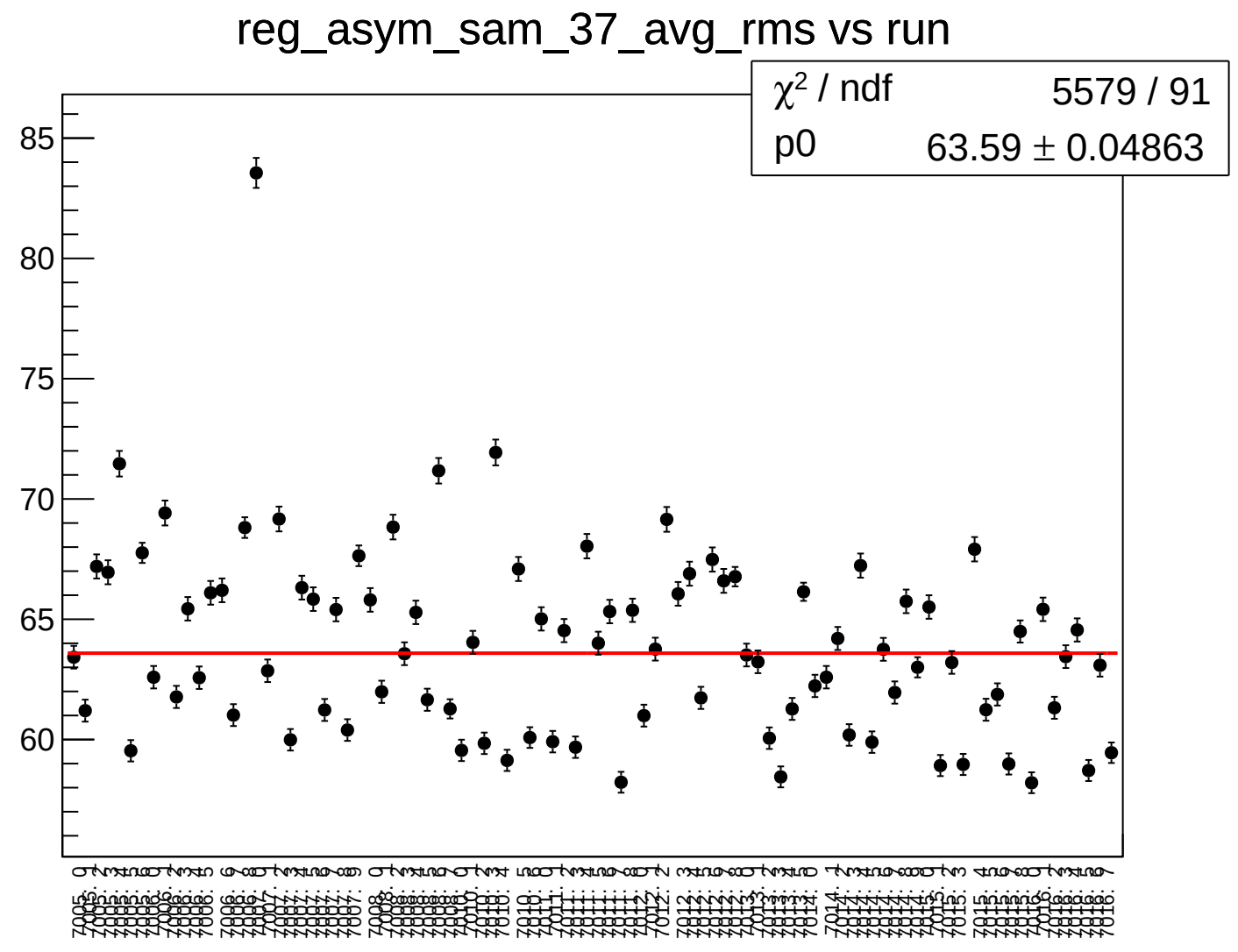

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.907e+04 / 91
p0 46.32 ± 0.03621
70
60
50
40
30

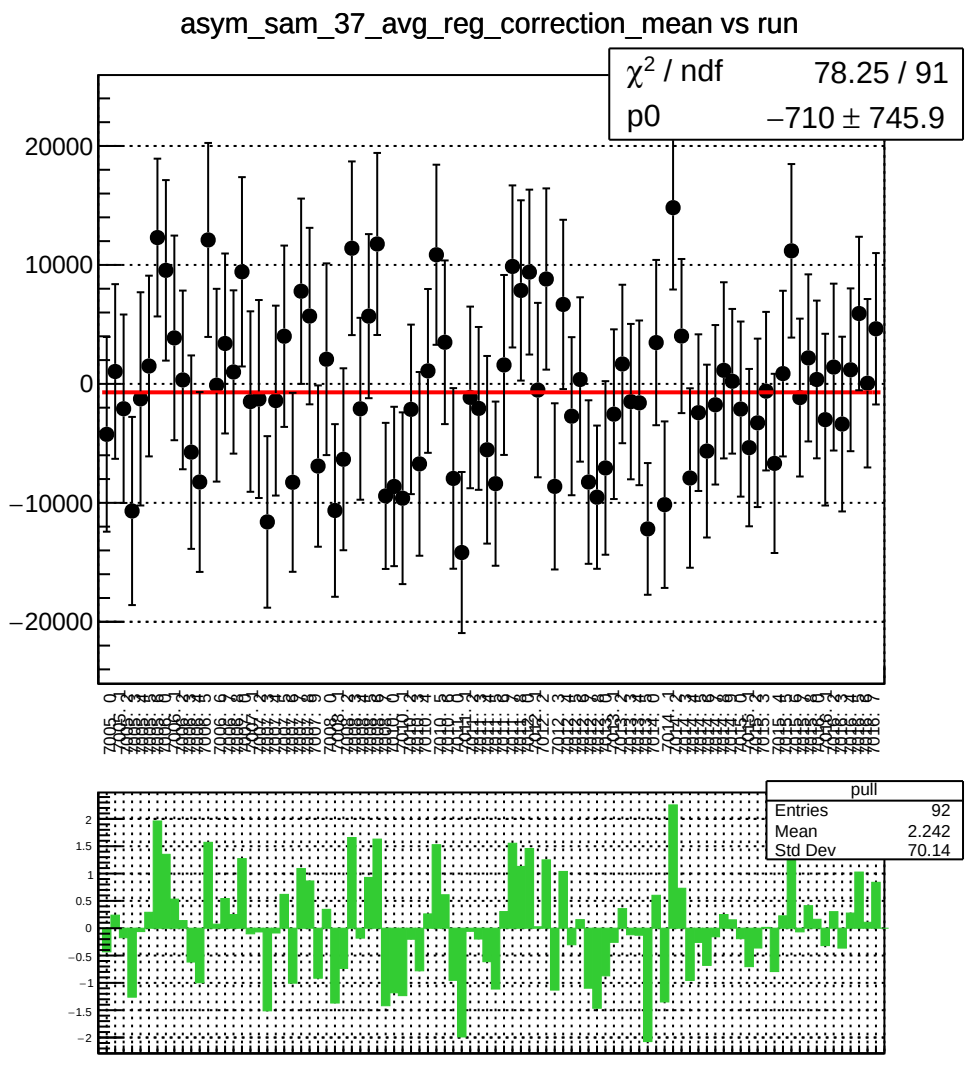

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.37 / 91
p0 −2.049e−14 ± 1.564e−14
pull
Entries 92
Mean 27.95
Std Dev 0
pull1D
Entries 92
Mean −0.04167
Std Dev 1.012

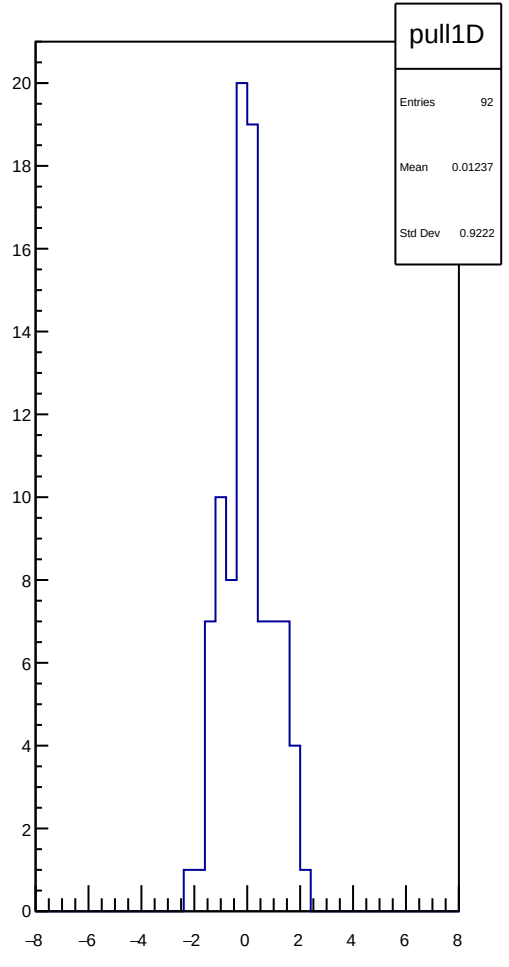

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.231e+05 / 91
p0 1.257e−11 ± 1.106e−14

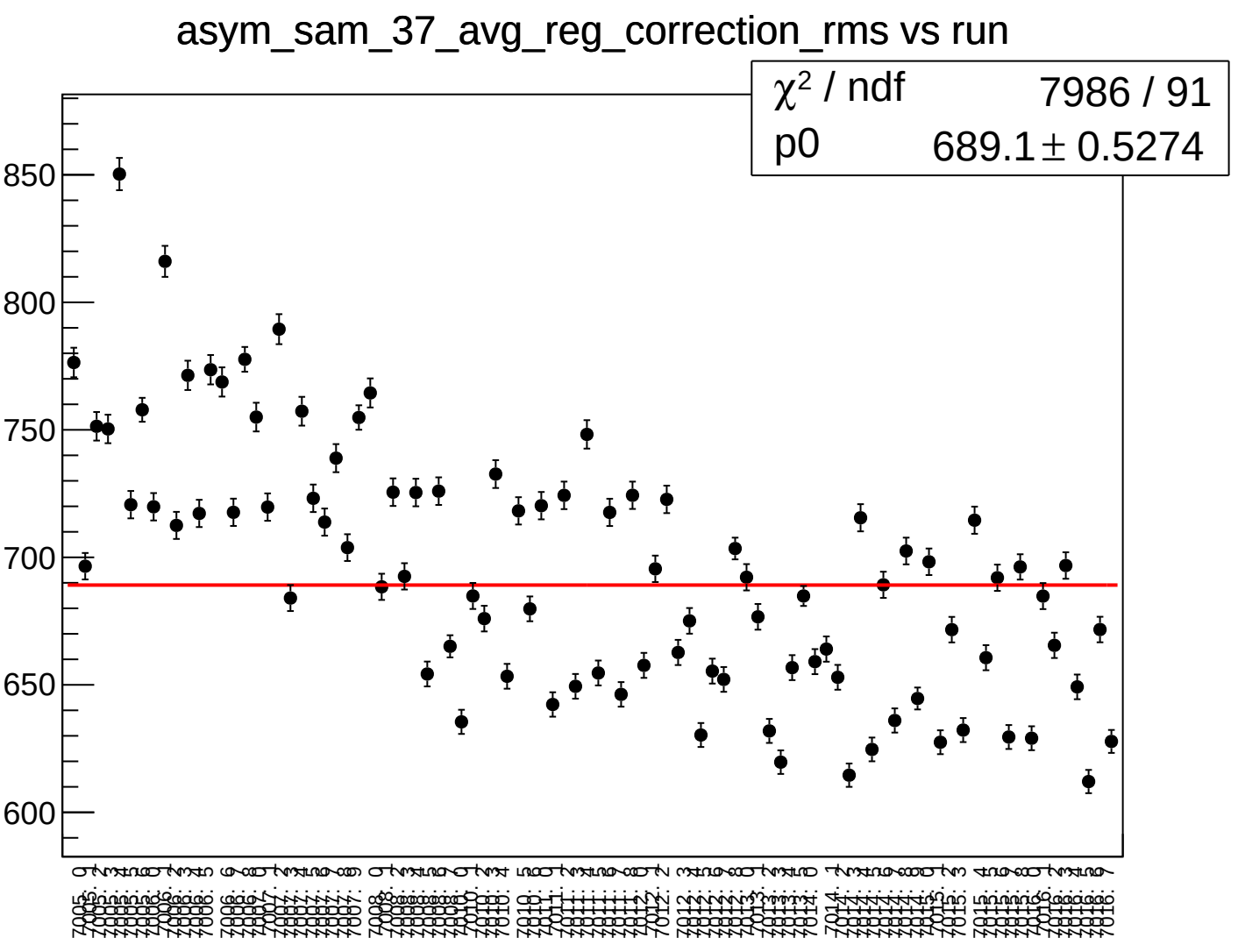

reg_asym_sam_37_avg_mean vs run
$\chi^2$ / ndf 80.49 / 91
p0 11.47 ± 68.78
pull
Entries 92
Mean 72.78
Std Dev 45.73

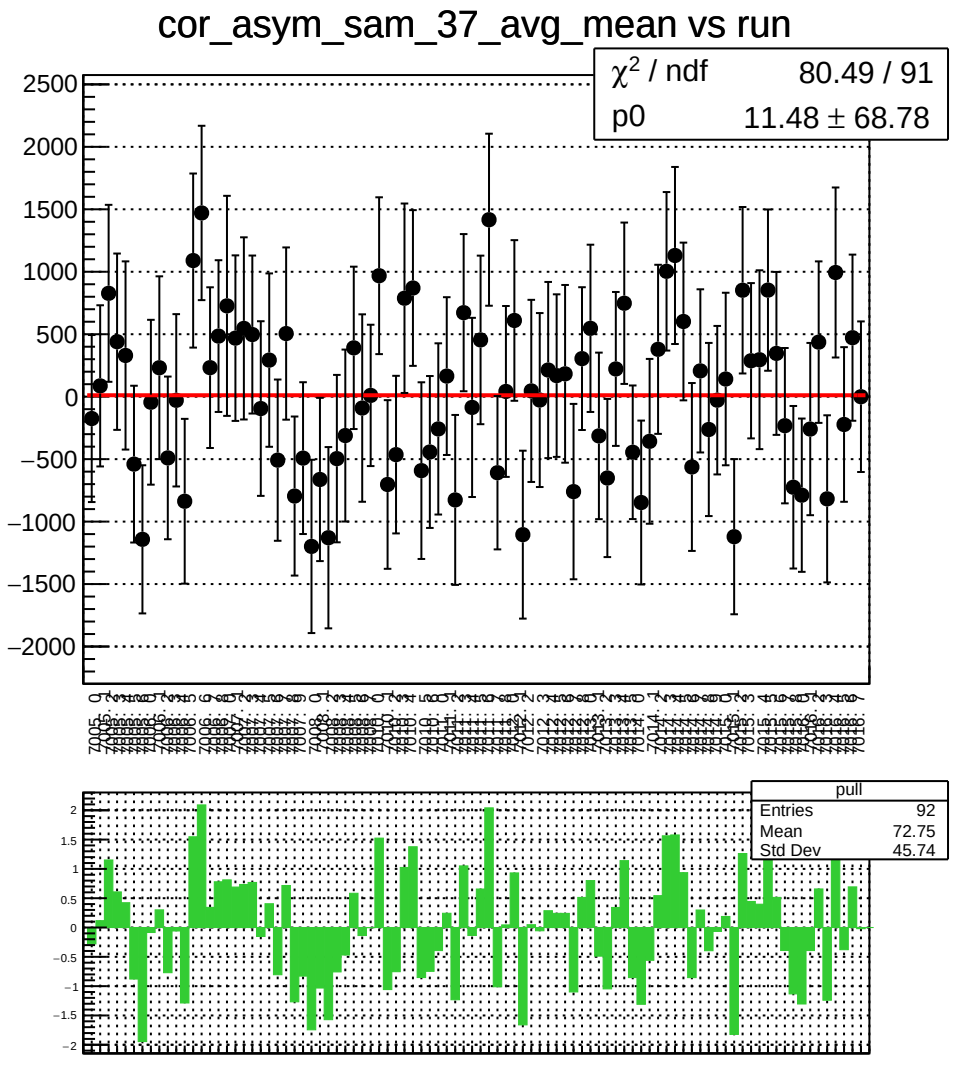

pull1D
Entries 92
Mean 0.01173
Std Dev 0.9353

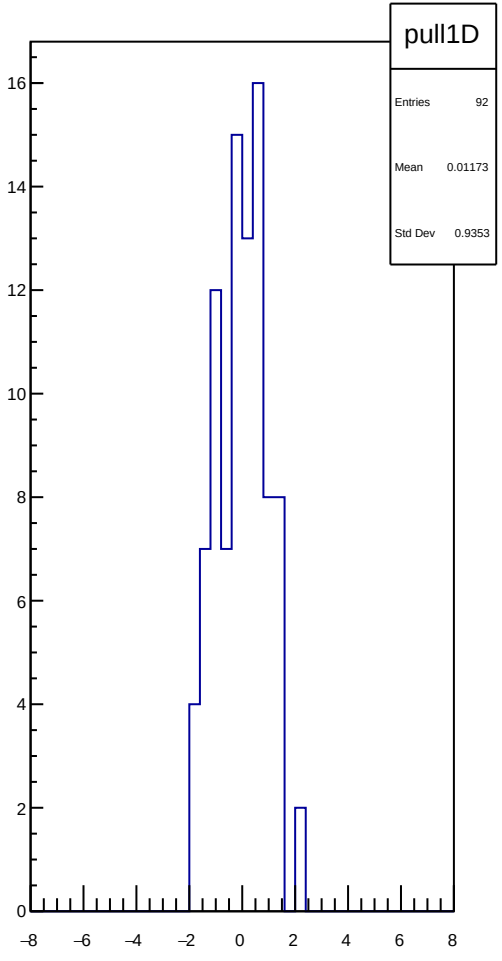

reg_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 5579 / 91
p0 63.59 ± 0.04863
85
80
75
70
65
60

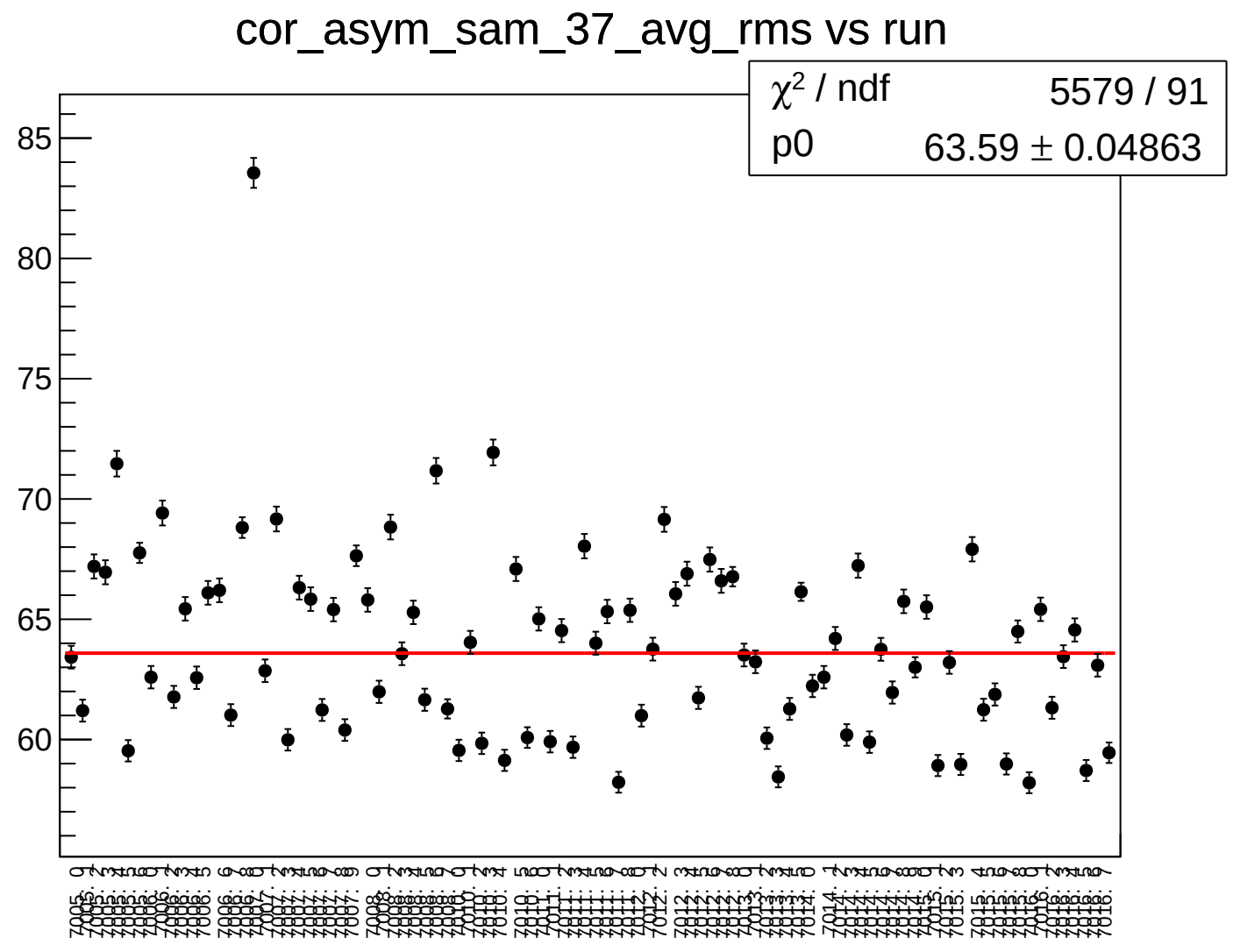

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 78.25 / 91
p0 −710 ± 745.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 2.242
Std Dev 70.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

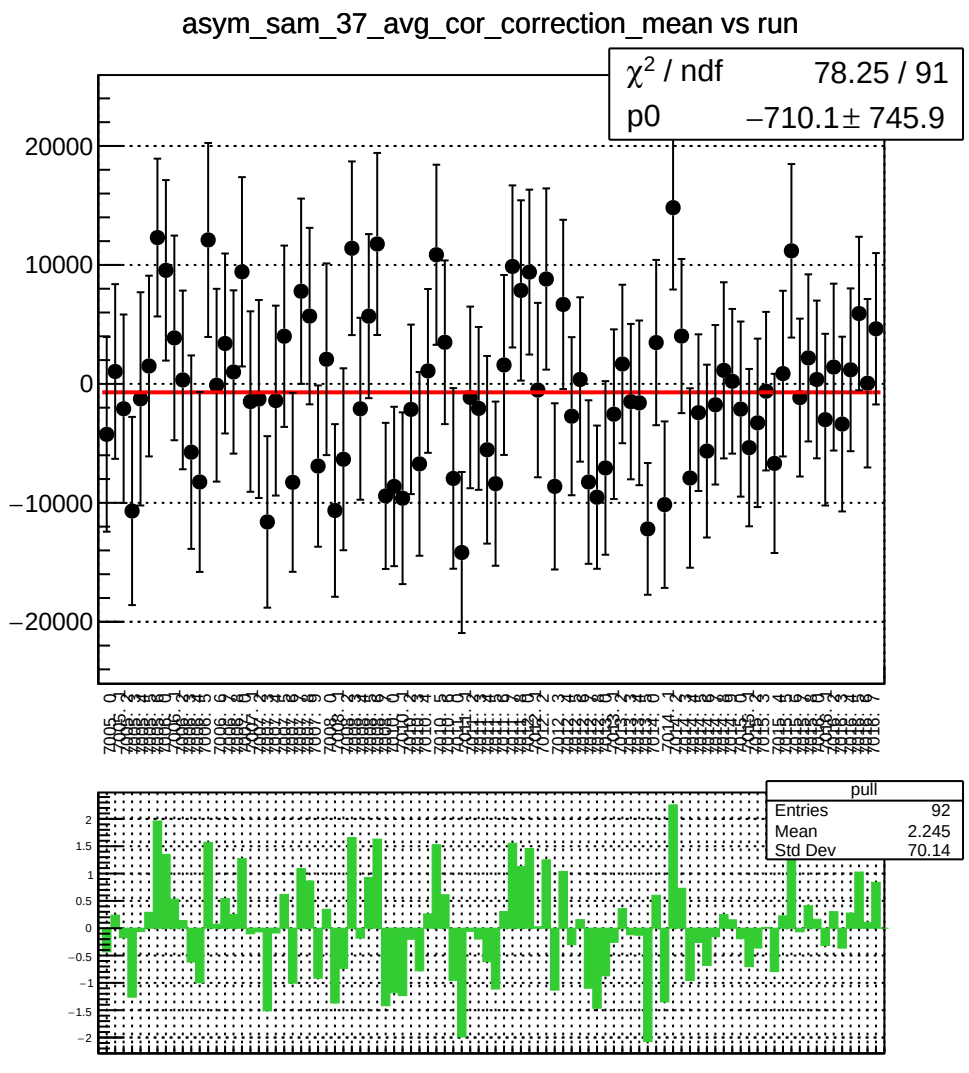

pull1D
Entries 92
Mean 0.01237
Std Dev 0.9222
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

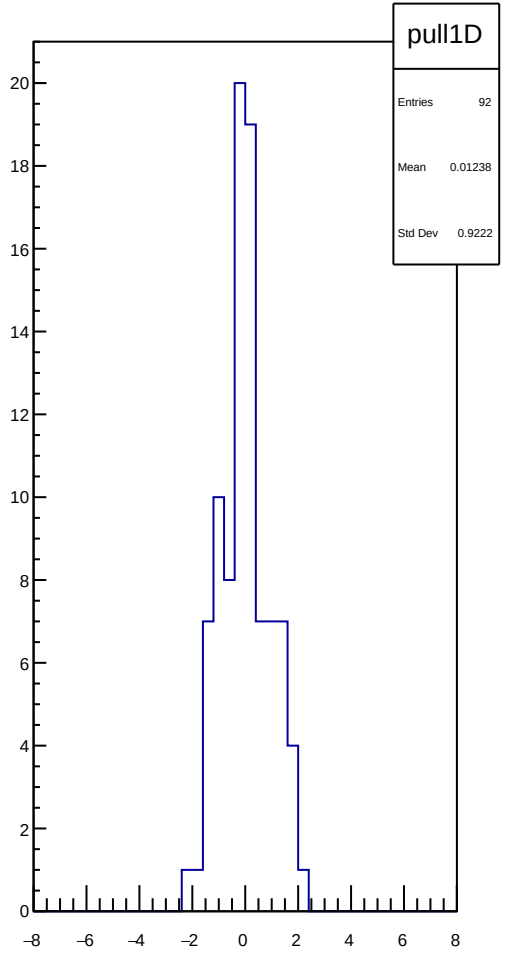

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 7986 / 91
p0 689.1 ± 0.5274
850
800
750
700
650
600

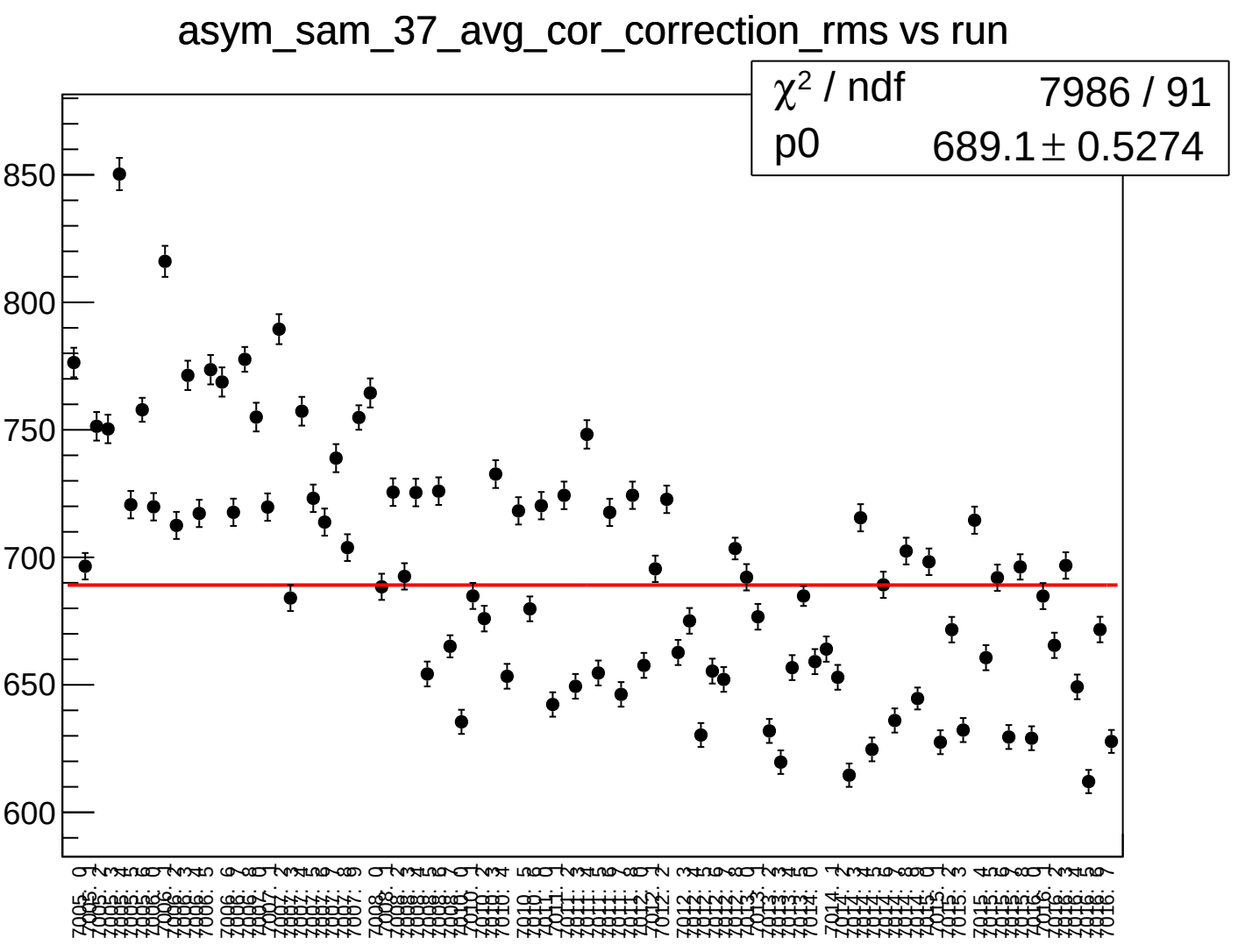

cor_asym_sam_37_avg_mean vs run
χ² / ndf 80.49 / 91
p0 11.48 ± 68.78
pull
Entries 92
Mean 72.75
Std Dev 45.74

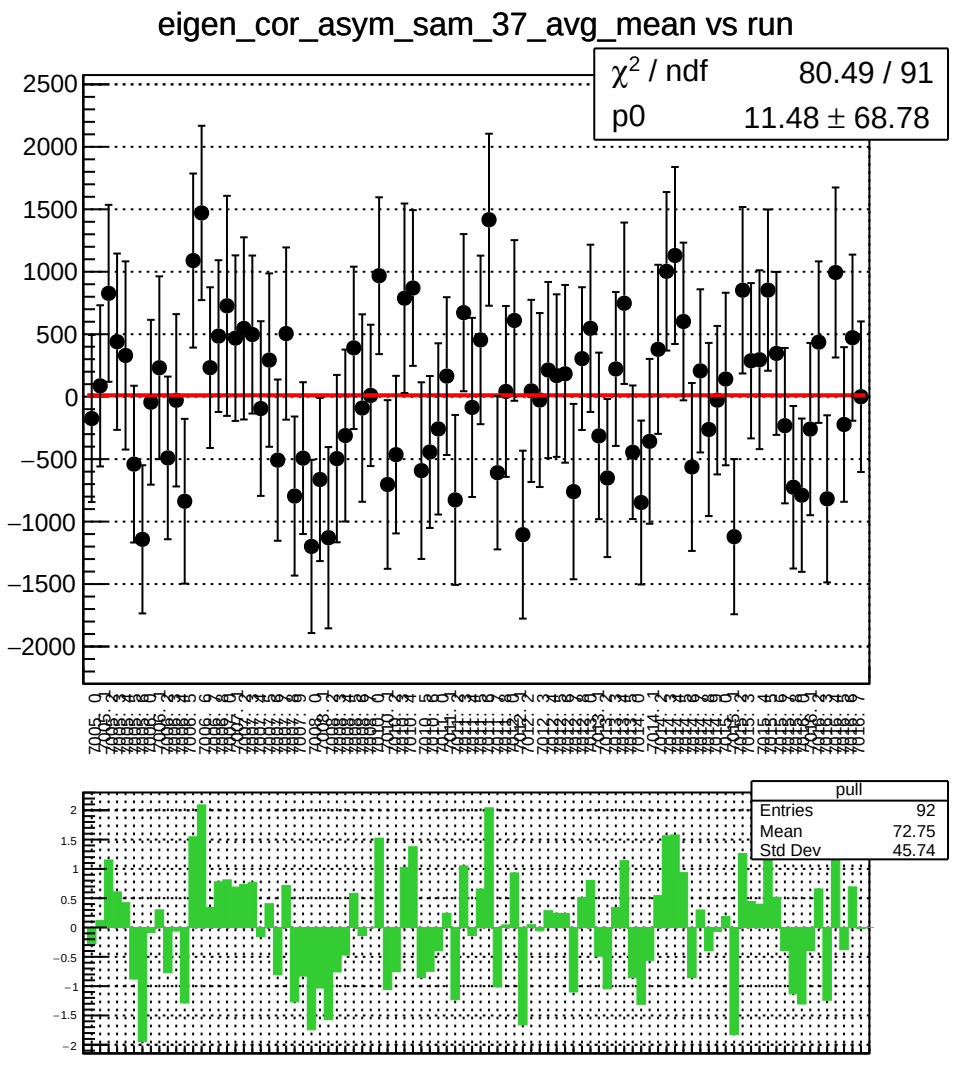

pull1D
Entries 92
Mean 0.01173
Std Dev 0.9353

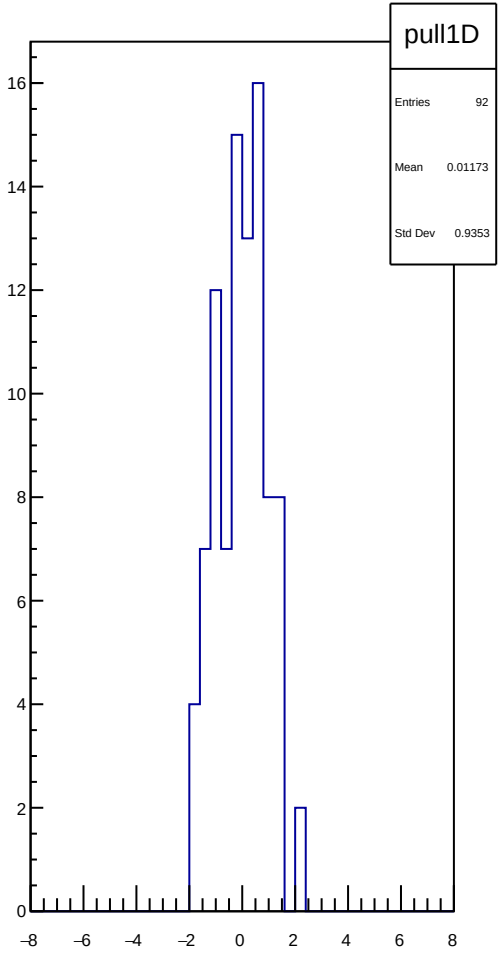

cor_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 5579 / 91
p0 63.59 ± 0.04863
85
80
75
70
65
60

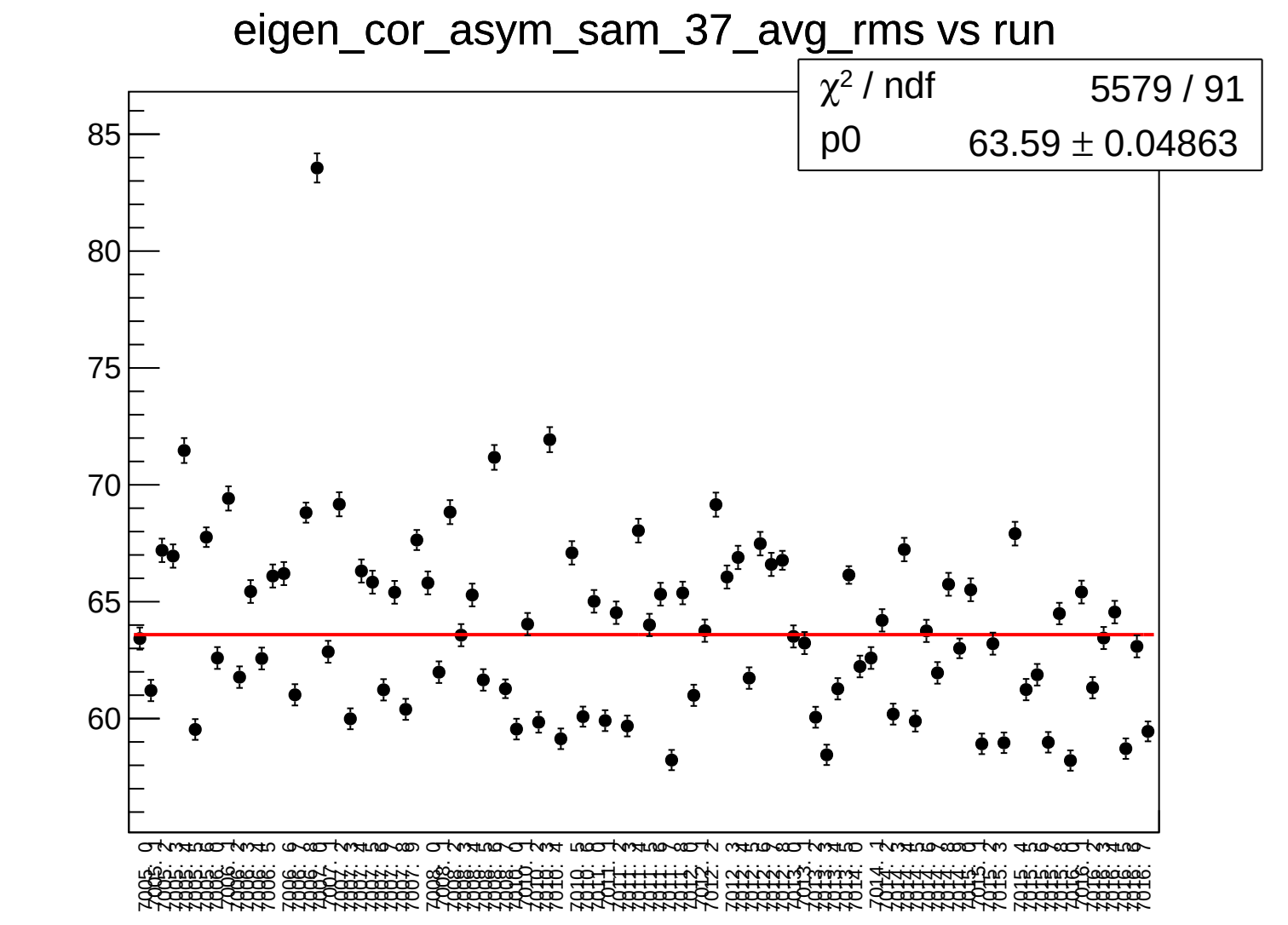

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 78.25 / 91
p0 −710.1± 745.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 2.245
Std Dev 70.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

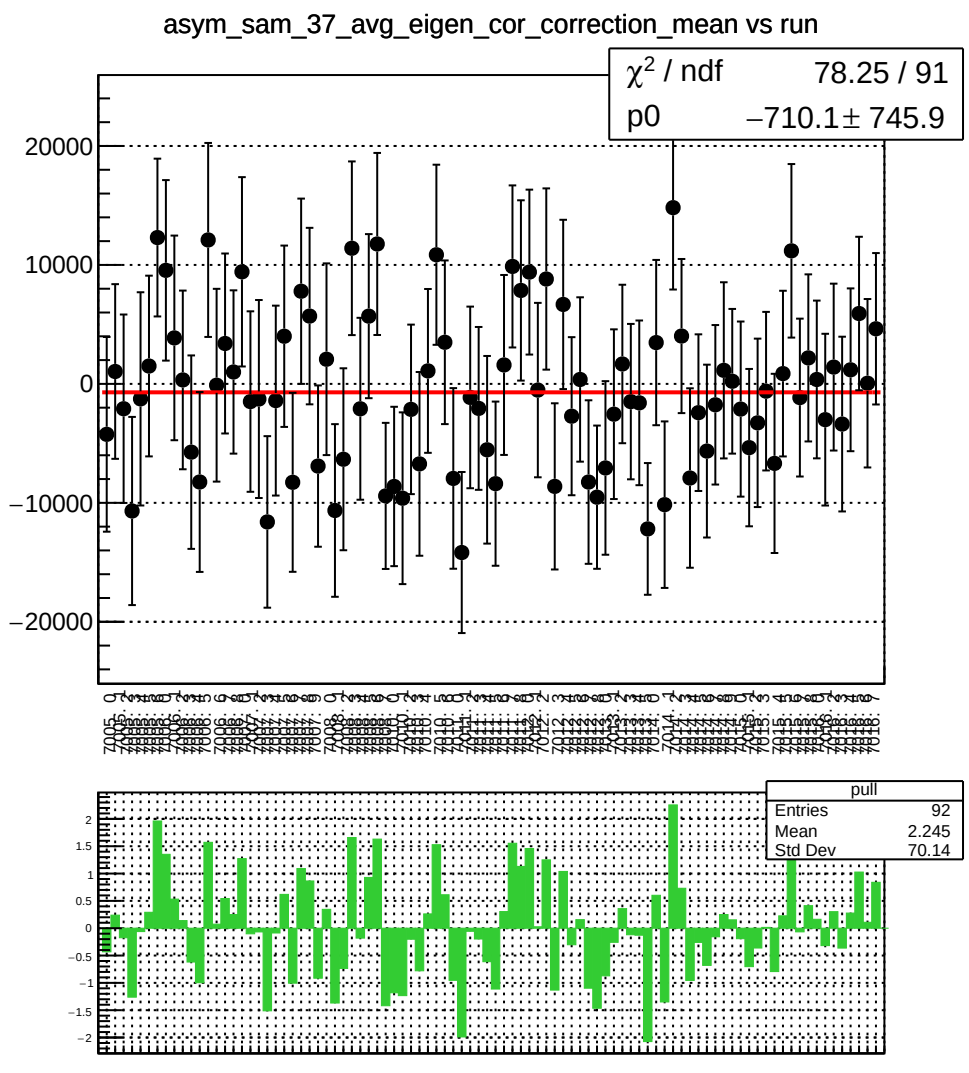

pull1D
Entries 92
Mean 0.01238
Std Dev 0.9222
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

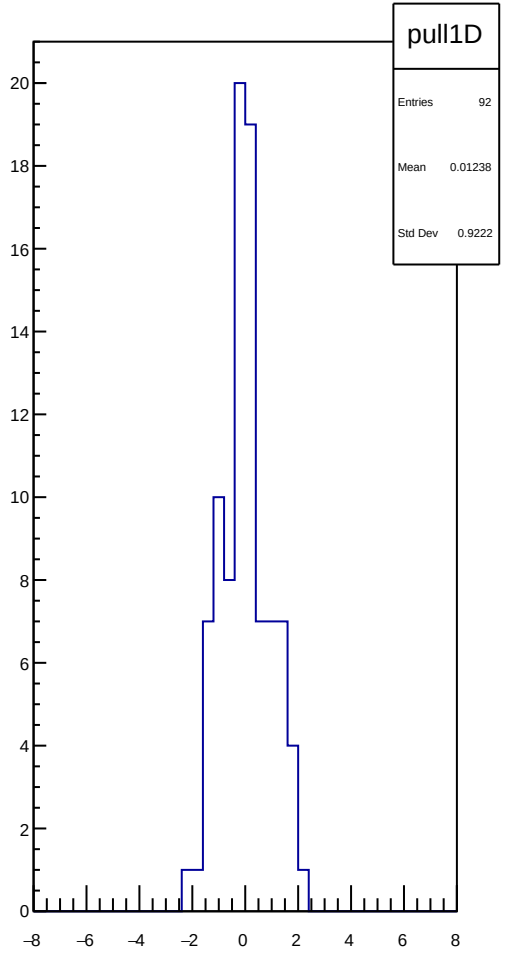

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 7986 / 91
p0 689.1 ± 0.5274
850
800
750
700
650
600

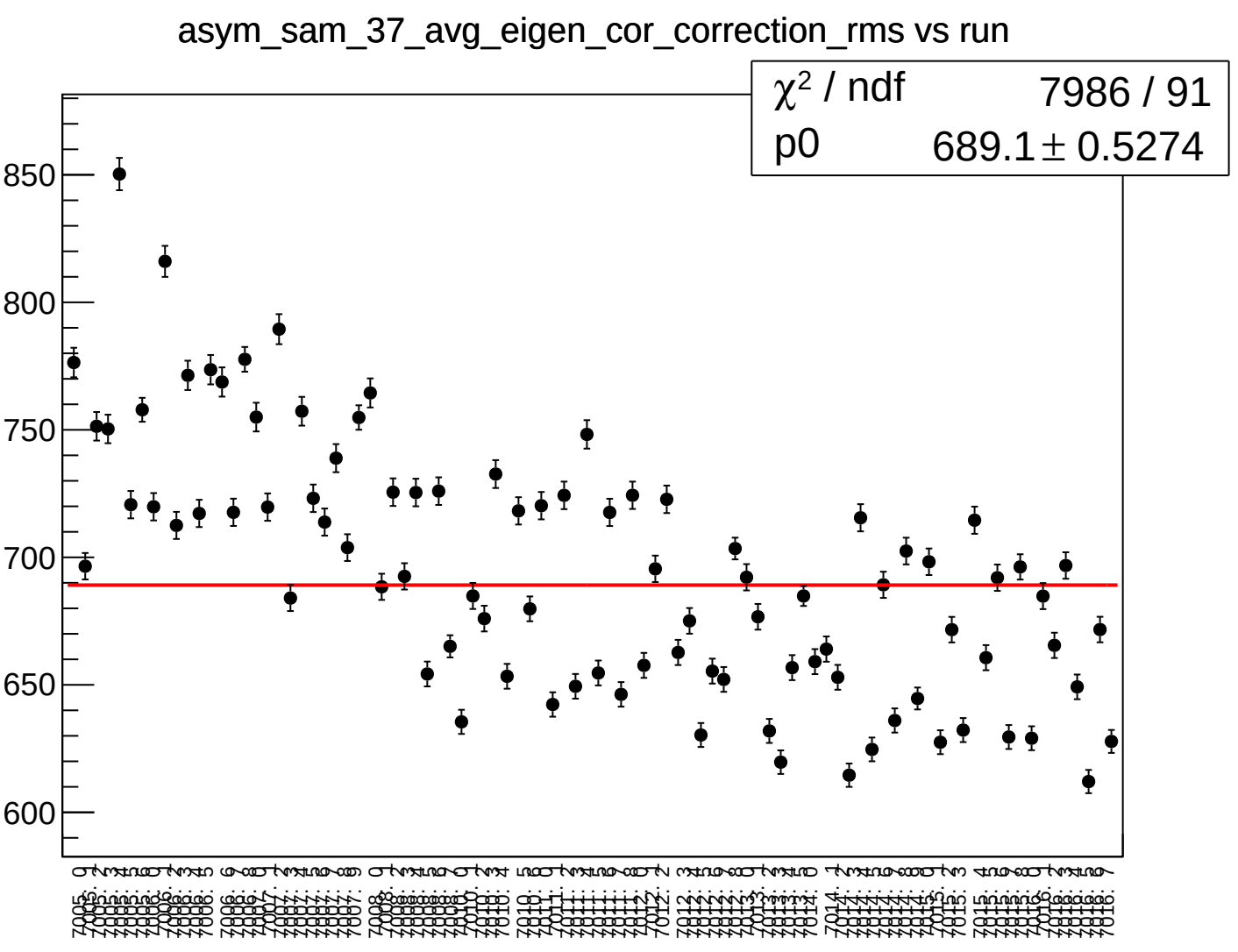

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 80.49 / 91
p0 11.48 ± 68.78
pull
Entries 92
Mean 72.75
Std Dev 45.74

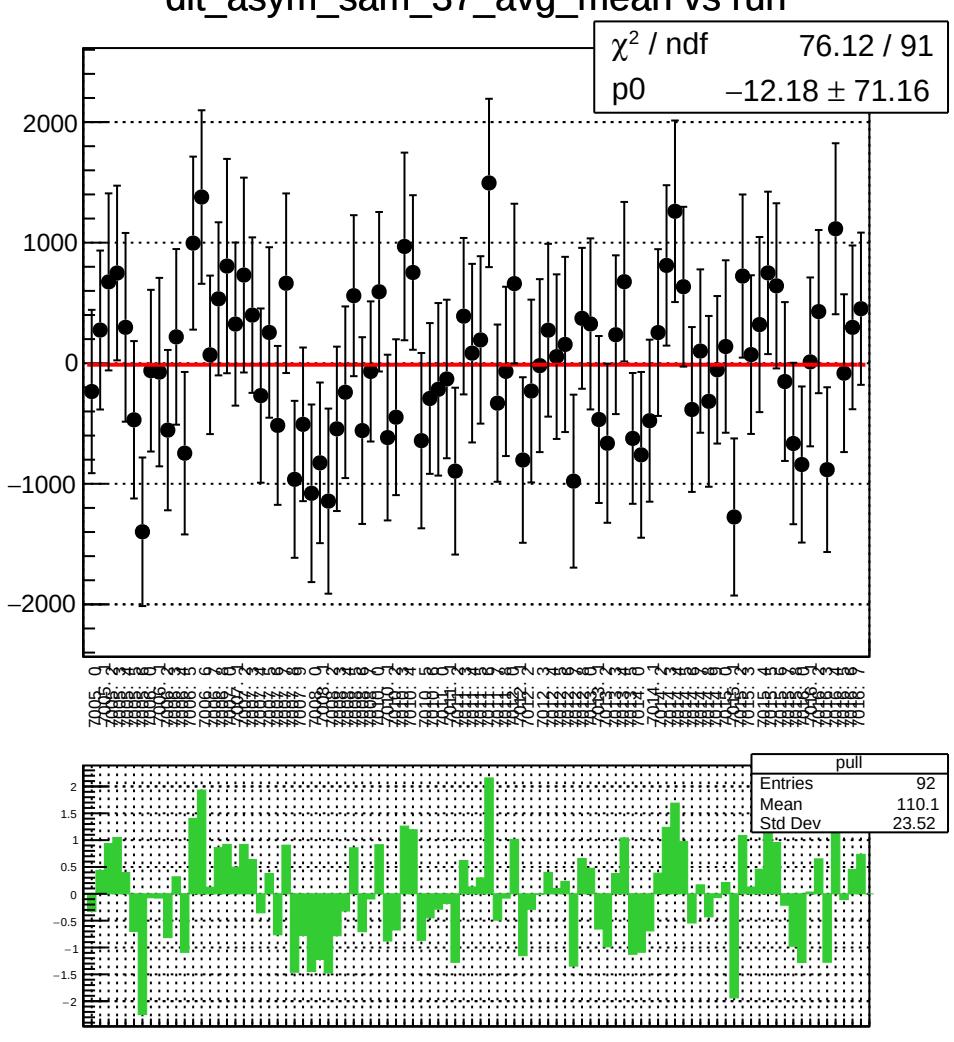

pull1D
Entries 92
Mean 0.01173
Std Dev 0.9353

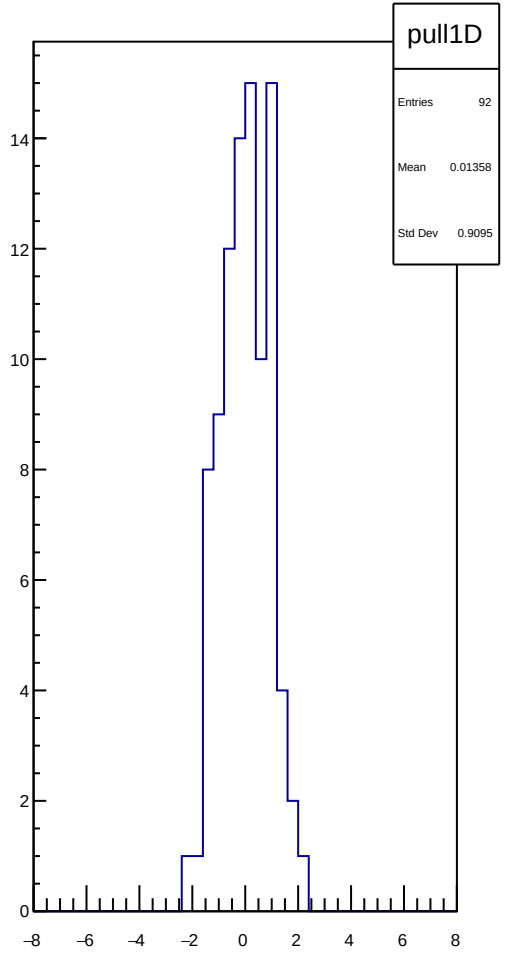

eigen_cor_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 5579 / 91
p0 63.59 ± 0.04863
85
80
75
70
65
60

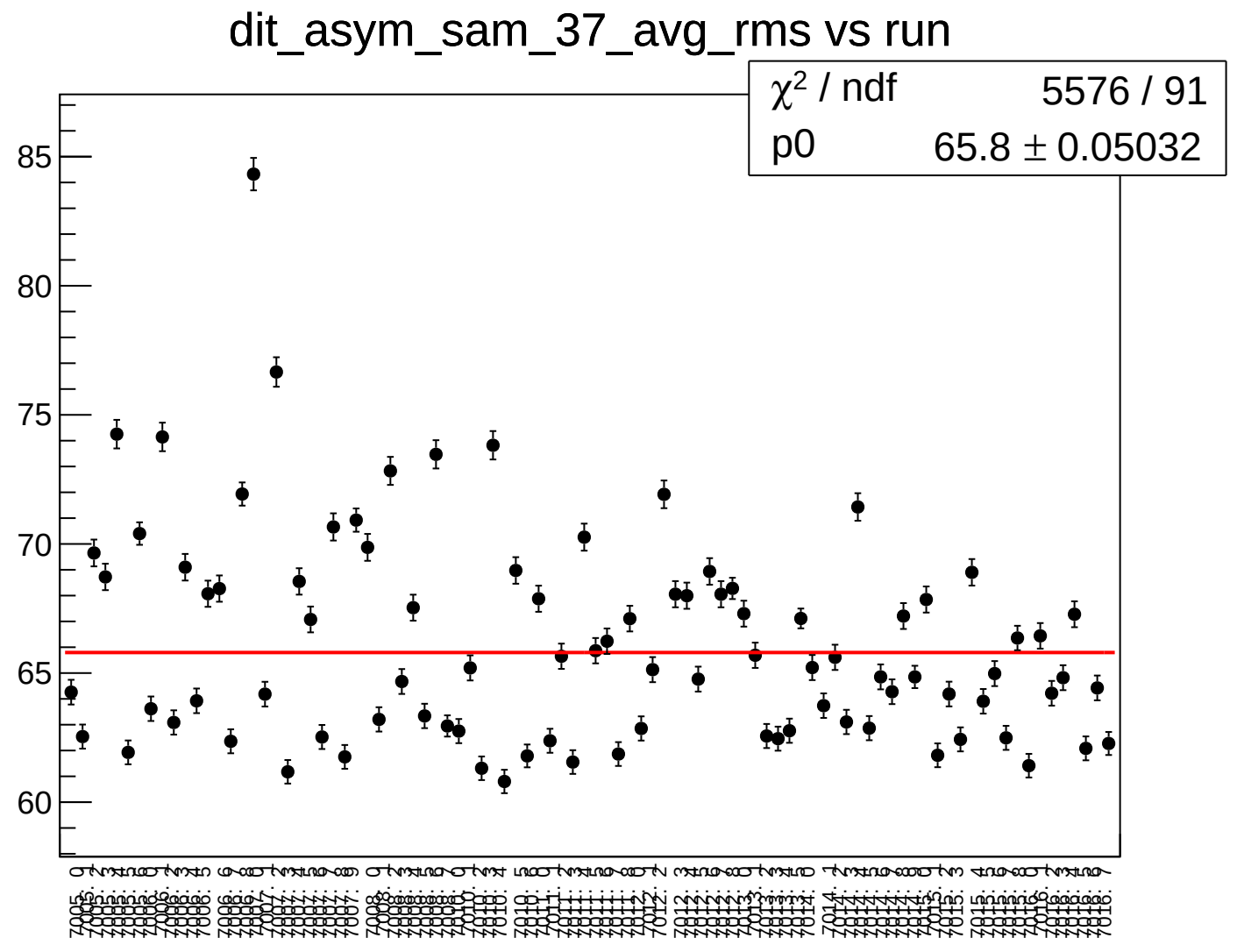

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.25 / 91
p0 −710.1± 745.9
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 2.245
Std Dev 70.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

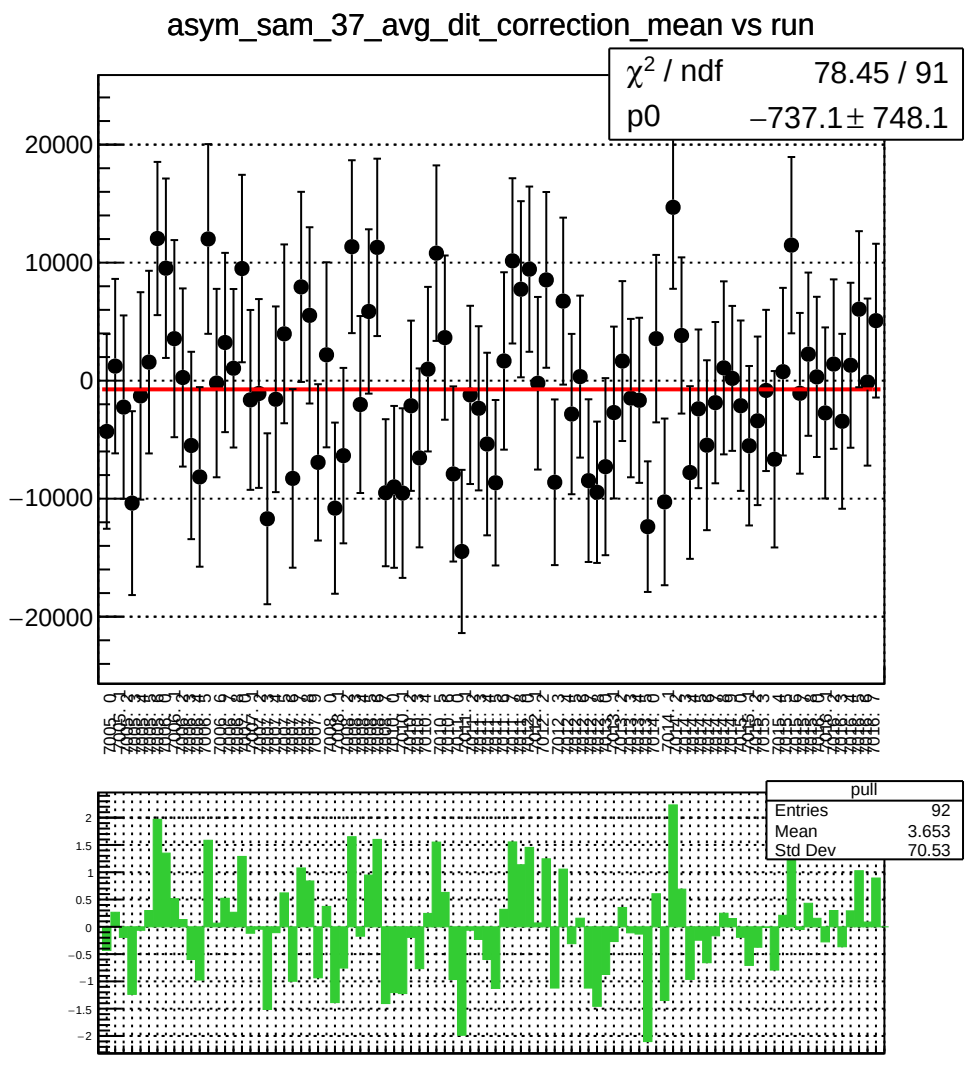

pull1D
Entries 92
Mean 0.01238
Std Dev 0.9222
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

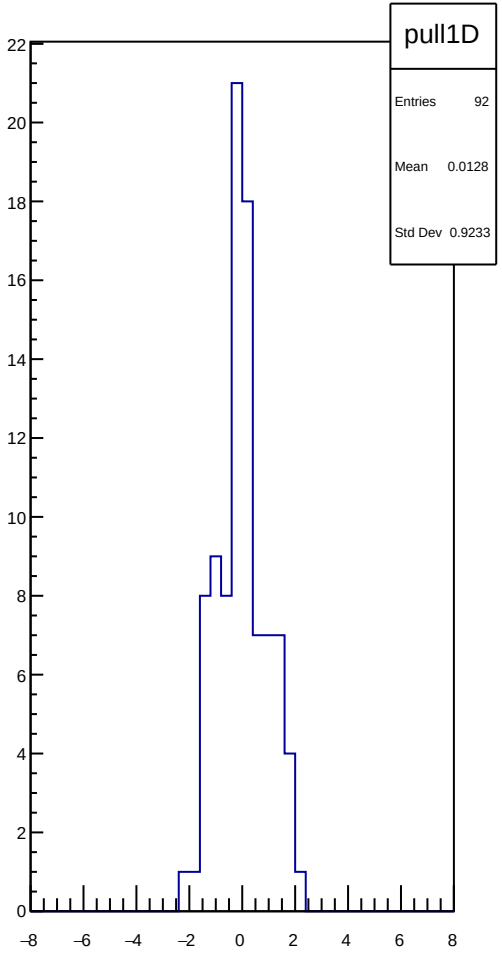

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 7986 / 91
p0 689.1 ± 0.5274
850
800
750
700
650
600

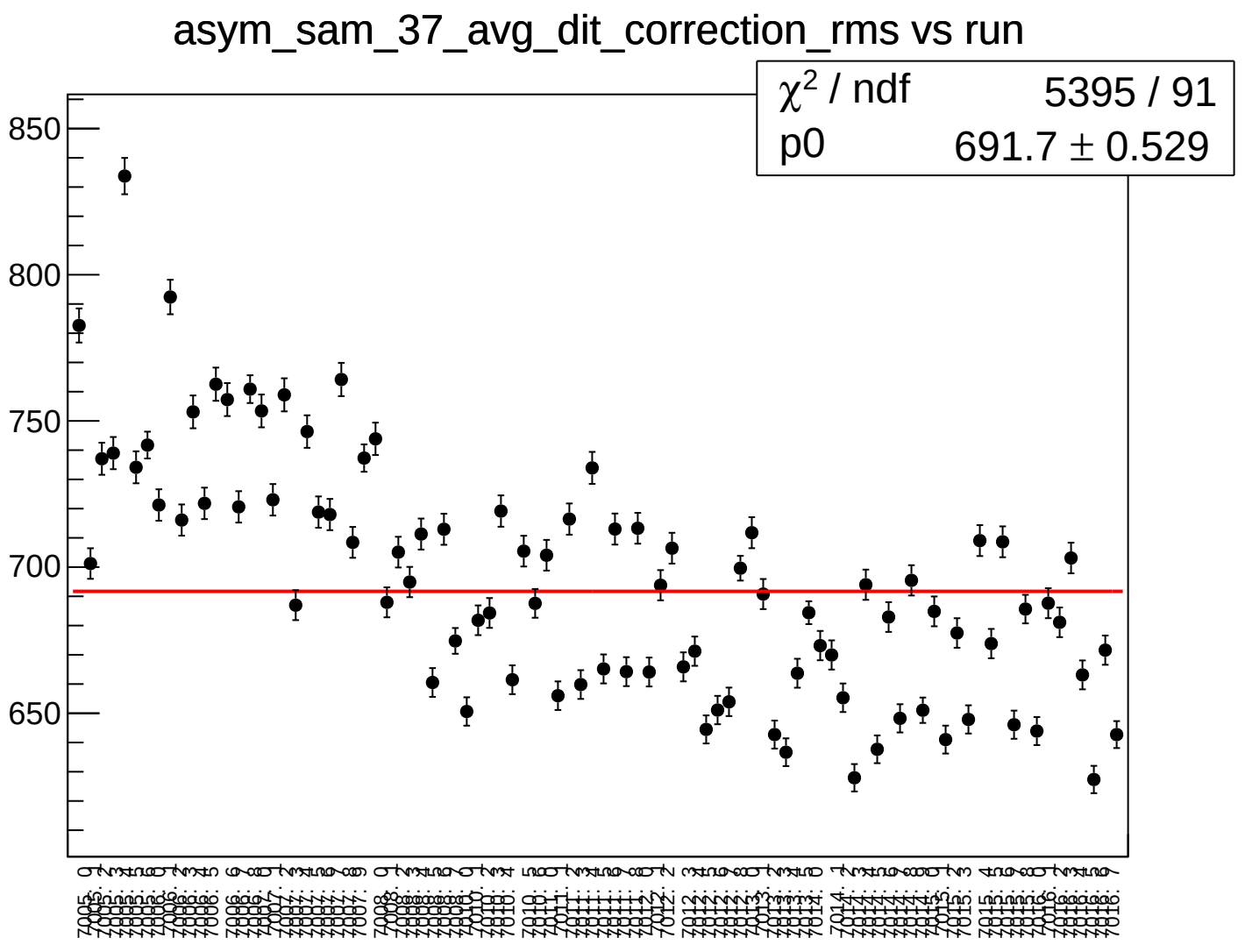

dit_asym_sam_37_avg_mean vs run
χ² / ndf 76.12 / 91
p0 −12.18 ± 71.16
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 110.1
Std Dev 23.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

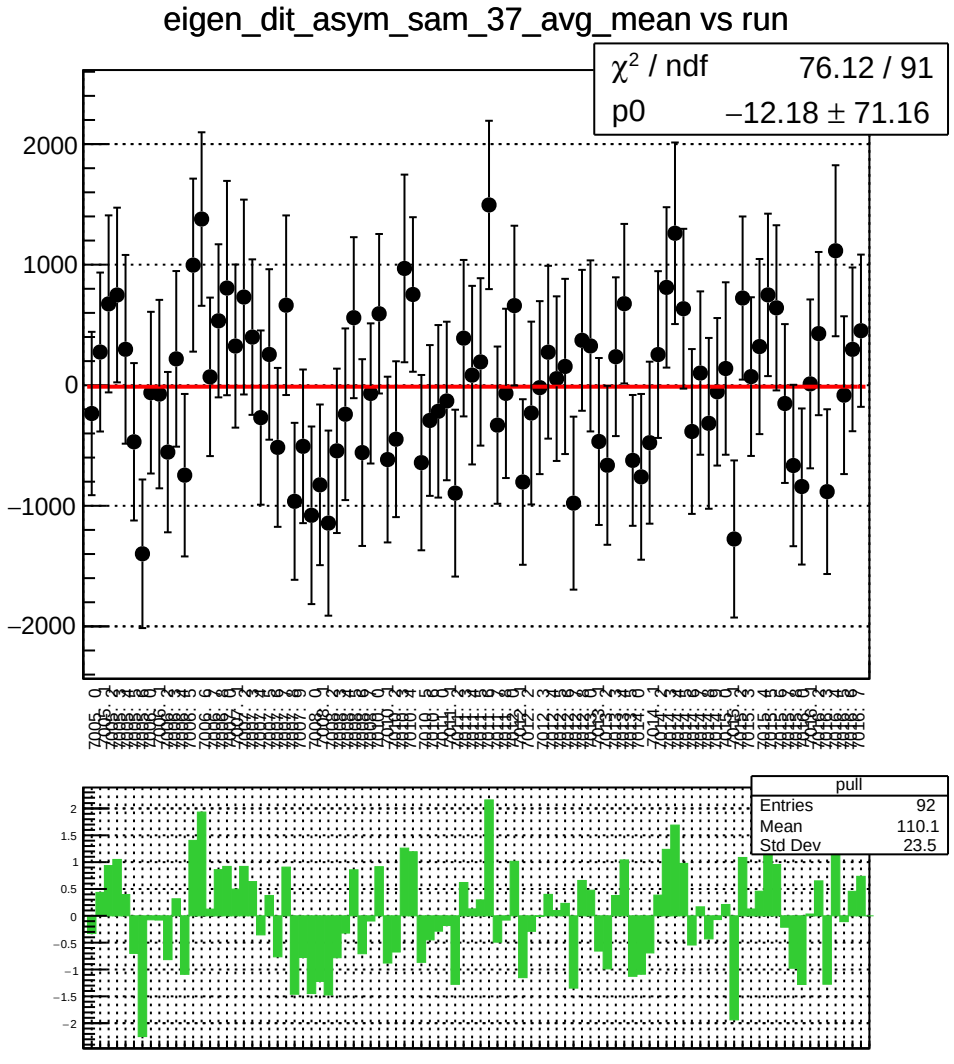

pull1D
Entries 92
Mean 0.01358
Std Dev 0.9095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

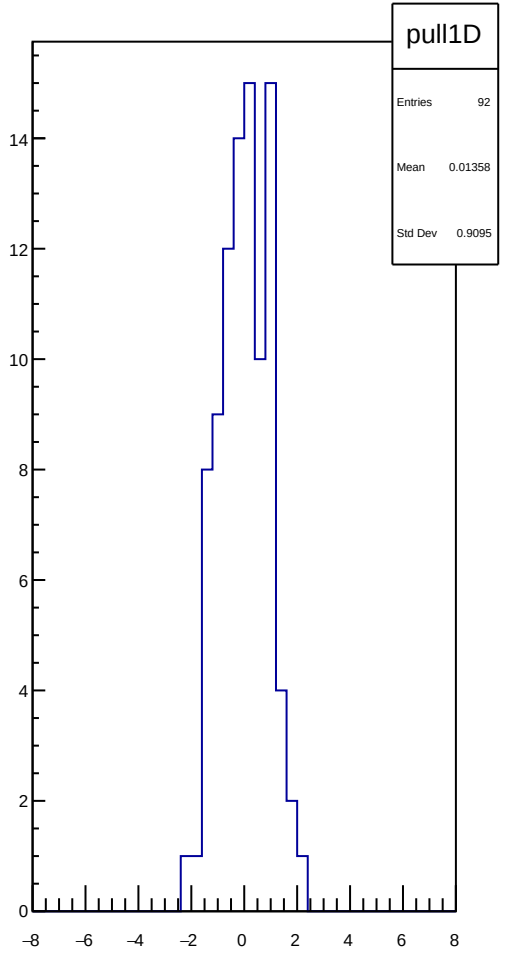

dit_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 5576 / 91
p0 65.8 ± 0.05032
85
80
75
70
65
60

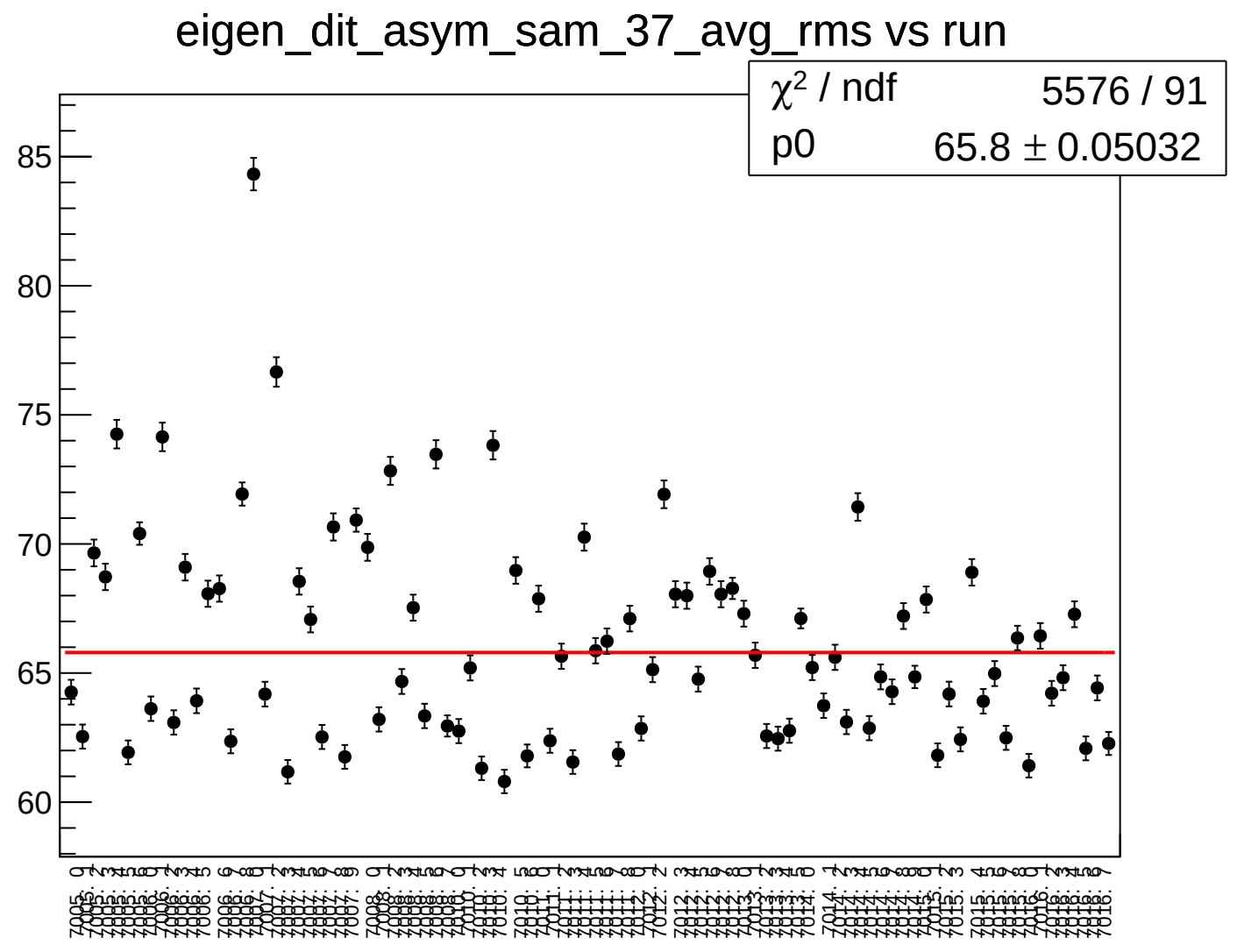

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 78.45 / 91
p0 −737.1 ± 748.1
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 3.653
Std Dev 70.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

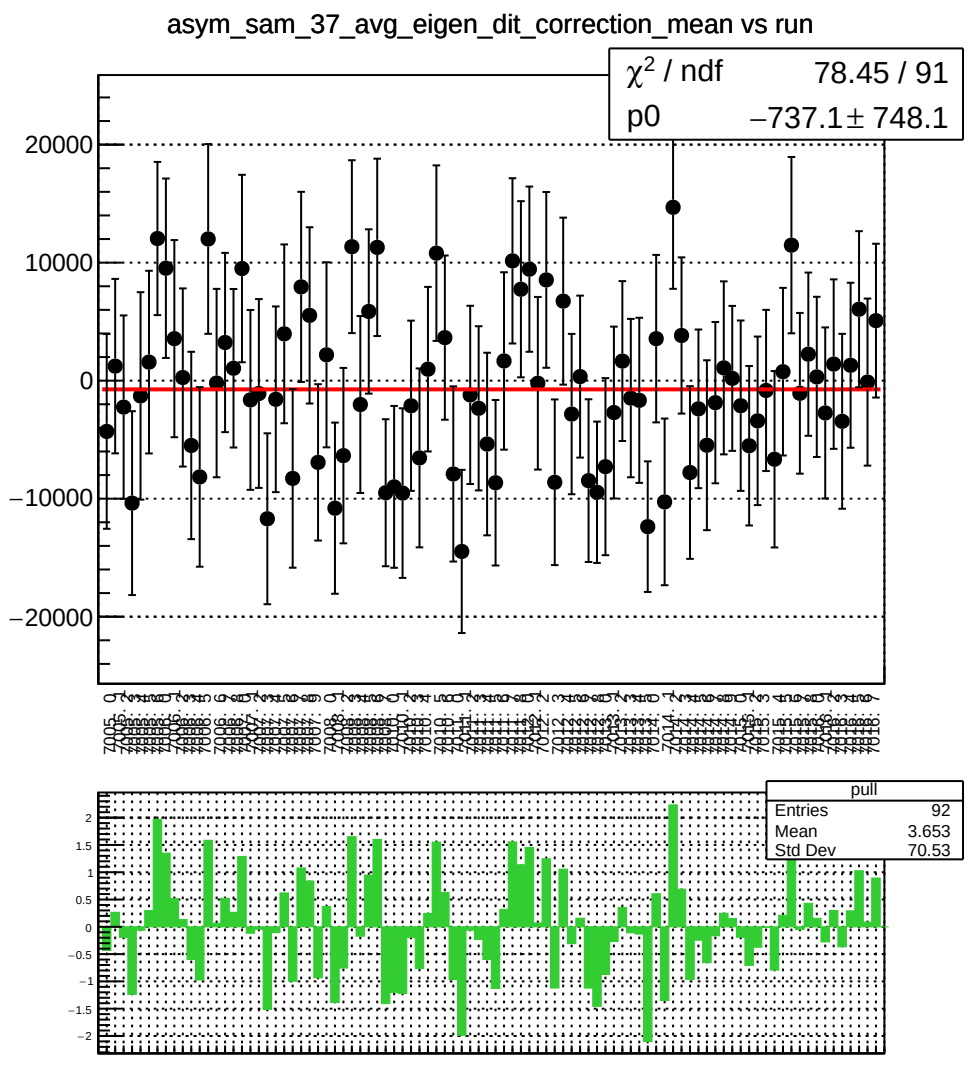

pull1D
Entries 92
Mean 0.0128
Std Dev 0.9233
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

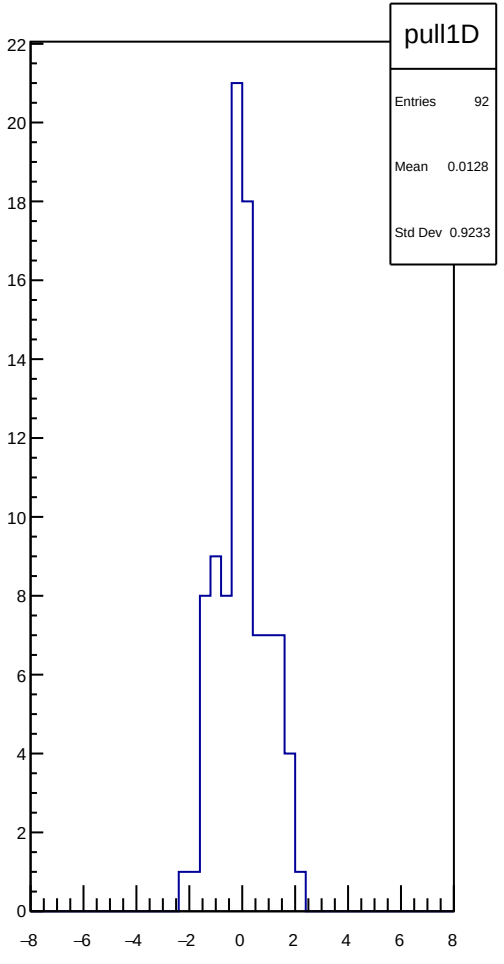

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 5395 / 91
p0 691.7 ± 0.529
850
800
750
700
650

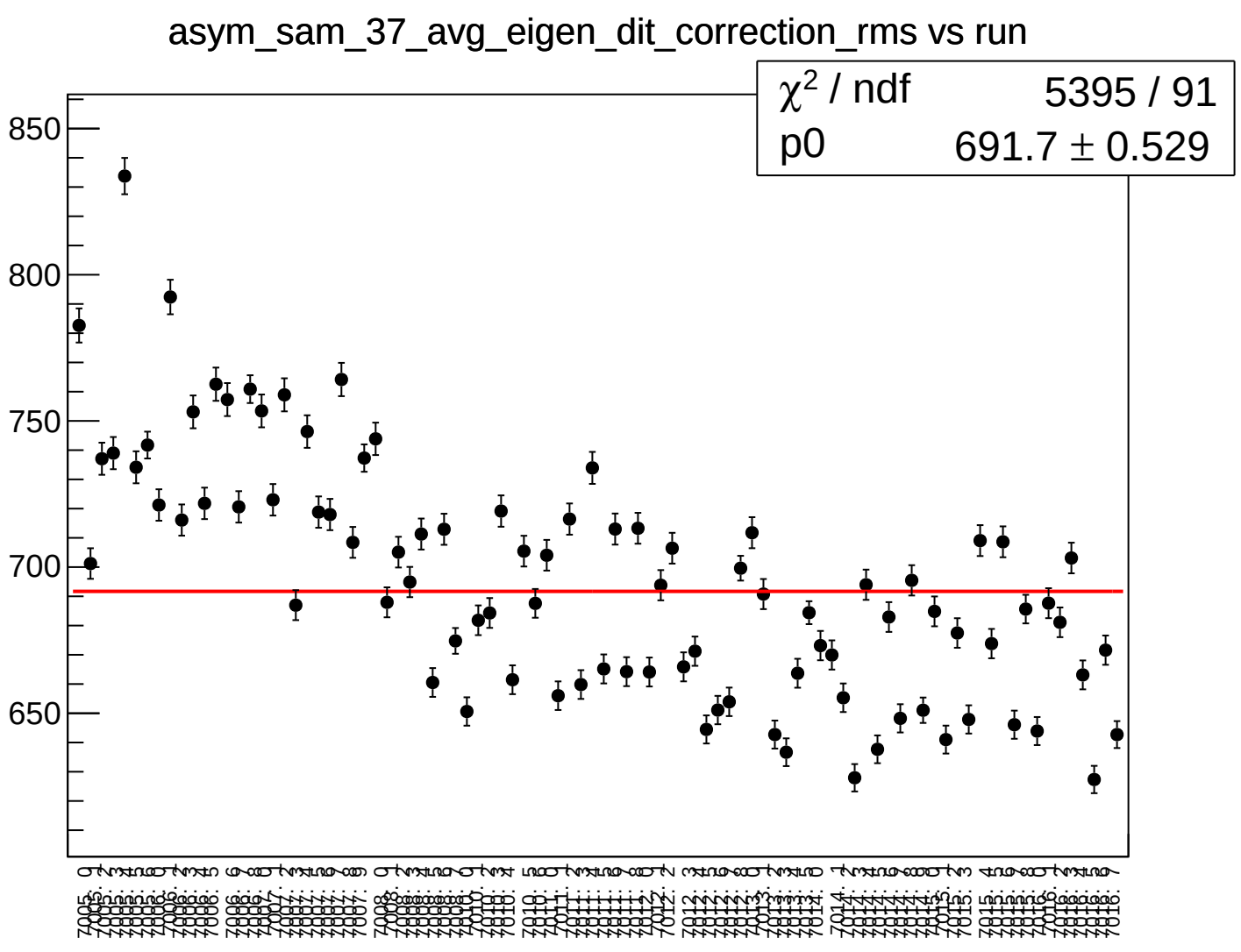

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 76.12 / 91
p0 −12.18 ± 71.16
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 110.1
Std Dev 23.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

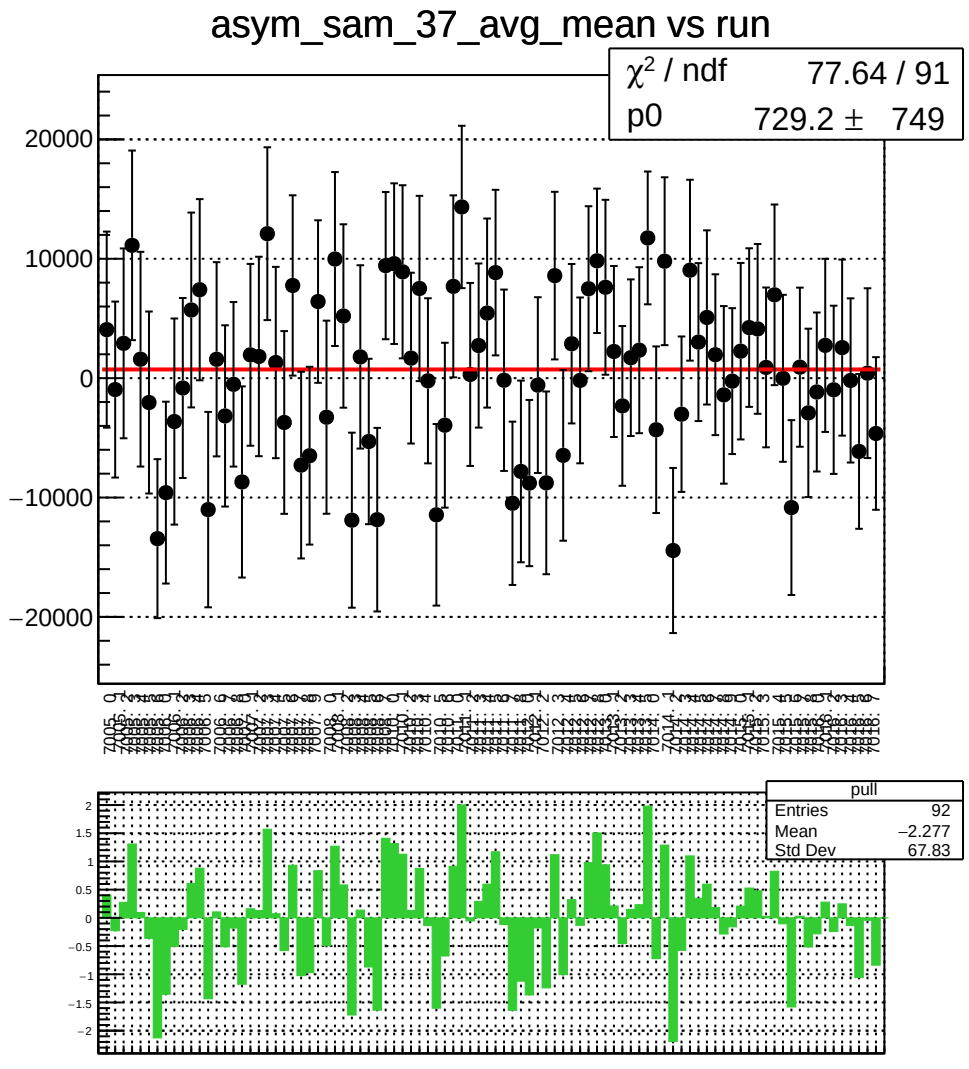

pull1D
Entries 92
Mean 0.01358
Std Dev 0.9095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

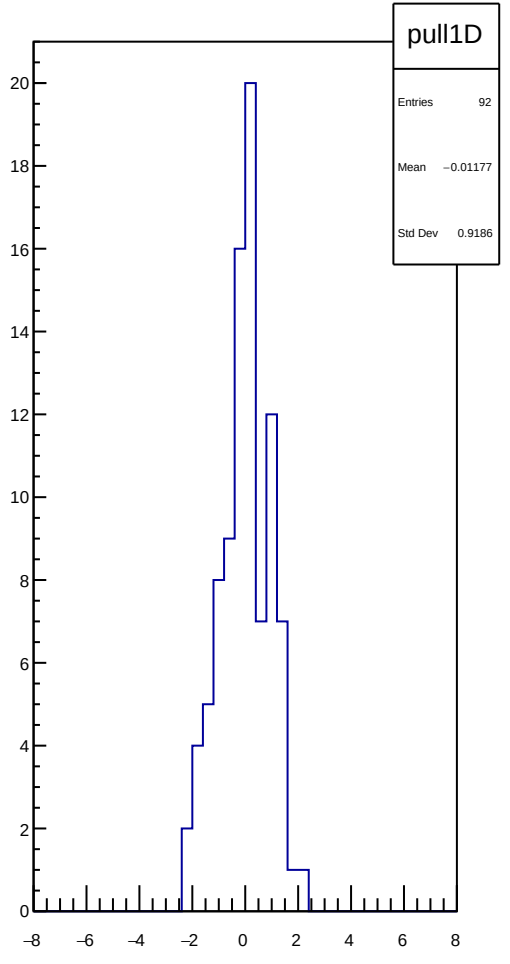

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 5576 / 91
p0 65.8 ± 0.05032
85
80
75
70
65
60

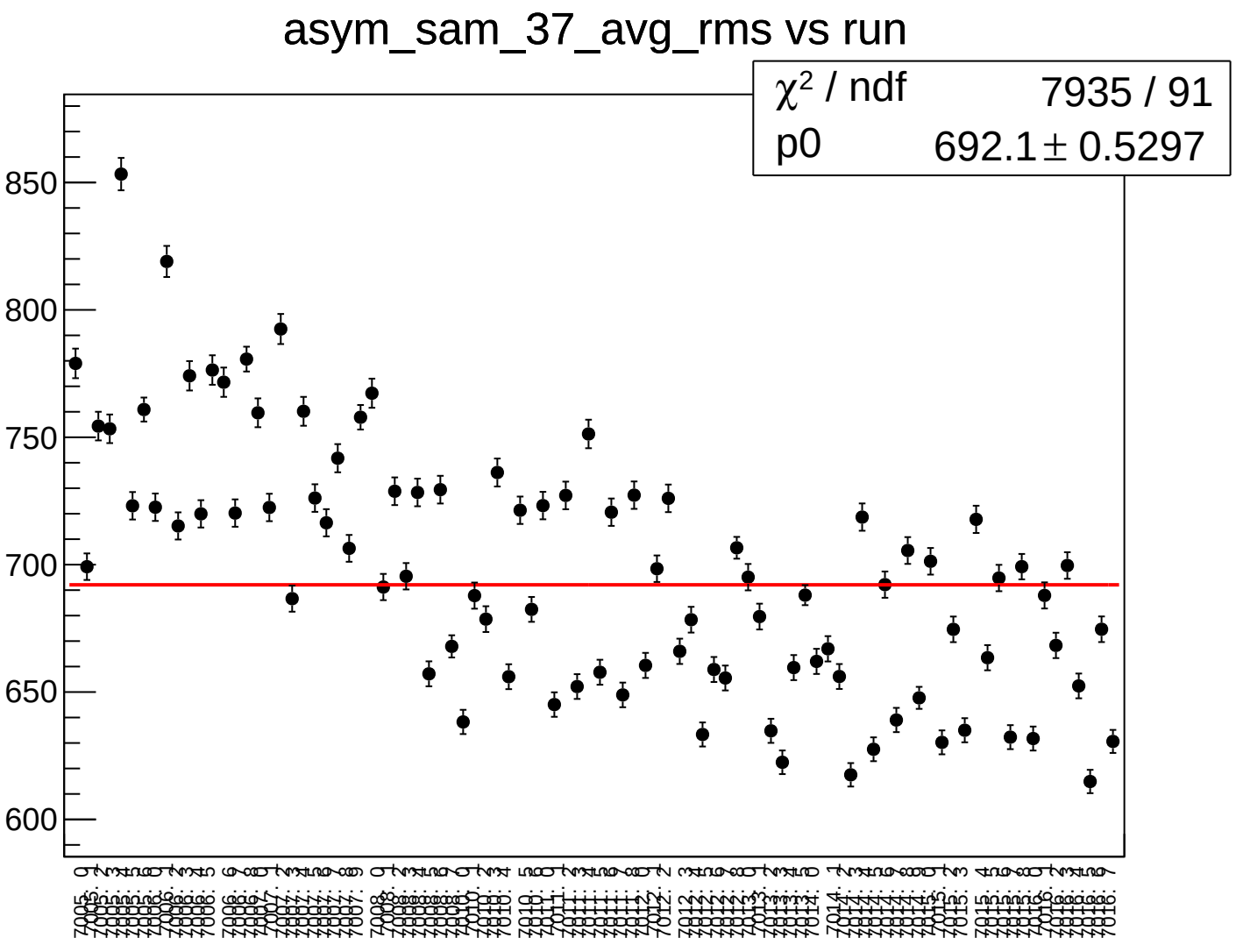

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.45 / 91
p0 −737.1 ± 748.1
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 3.653
Std Dev 70.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

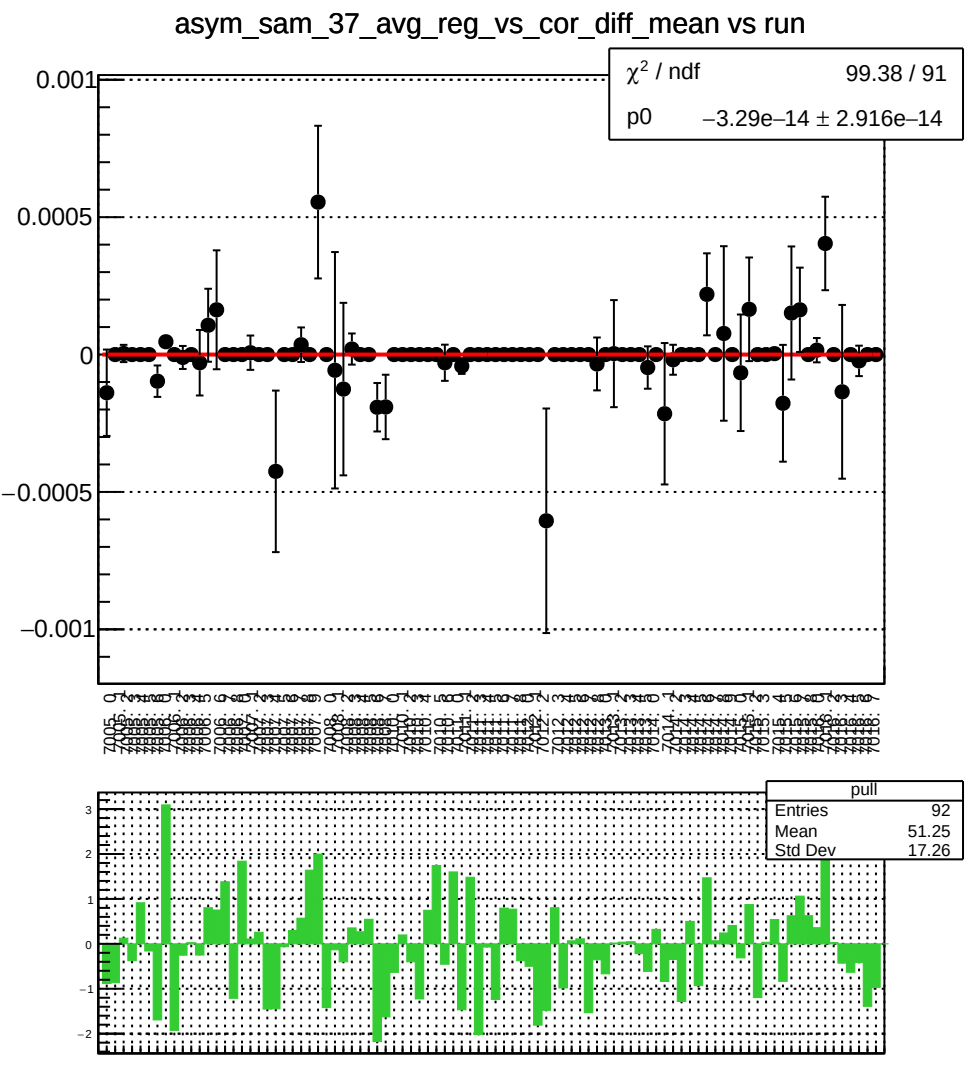

pull1D
Entries 92
Mean 0.0128
Std Dev 0.9233
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

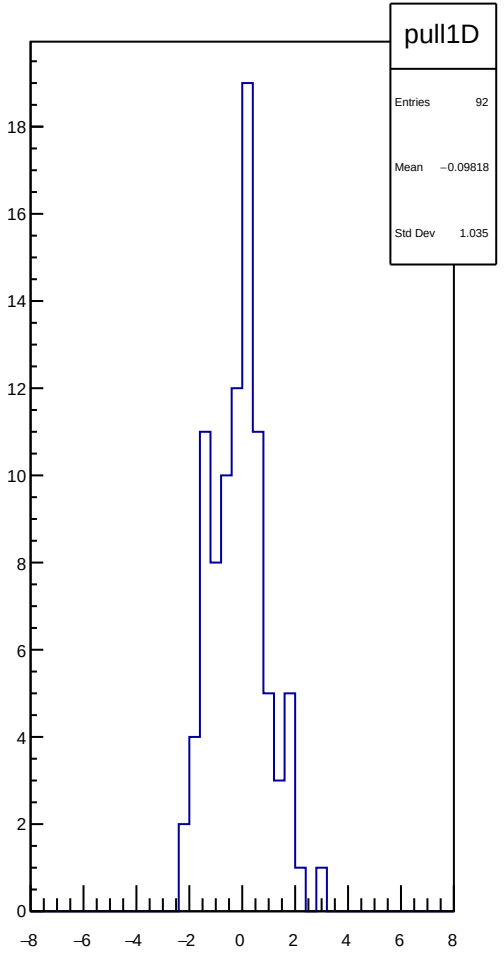

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 5395 / 91
p0 691.7 ± 0.529
850
800
750
700
650

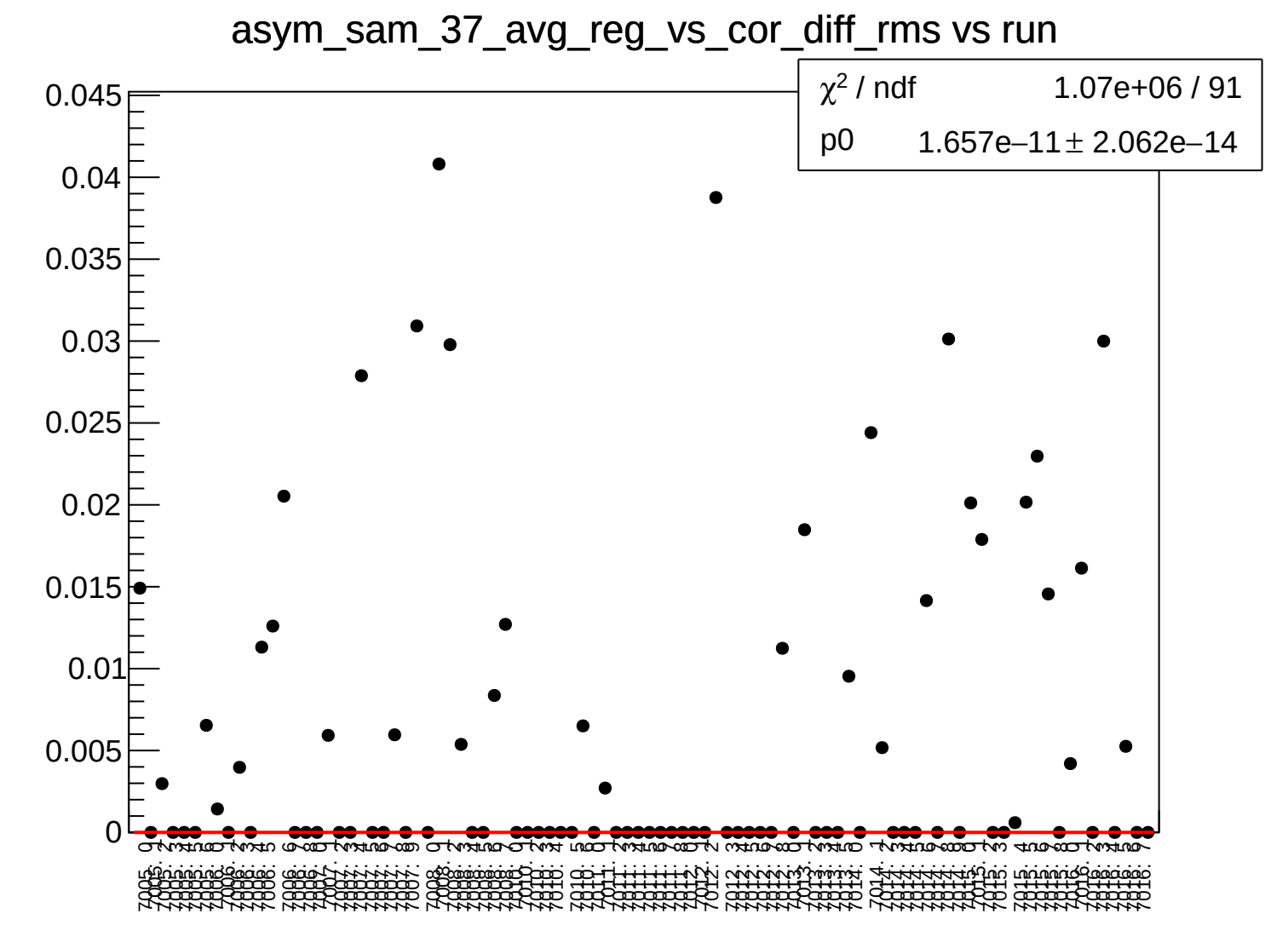

asym_sam_37_avg_mean vs run
χ² / ndf 77.64 / 91
p0 729.2 ± 749
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −2.277
Std Dev 67.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

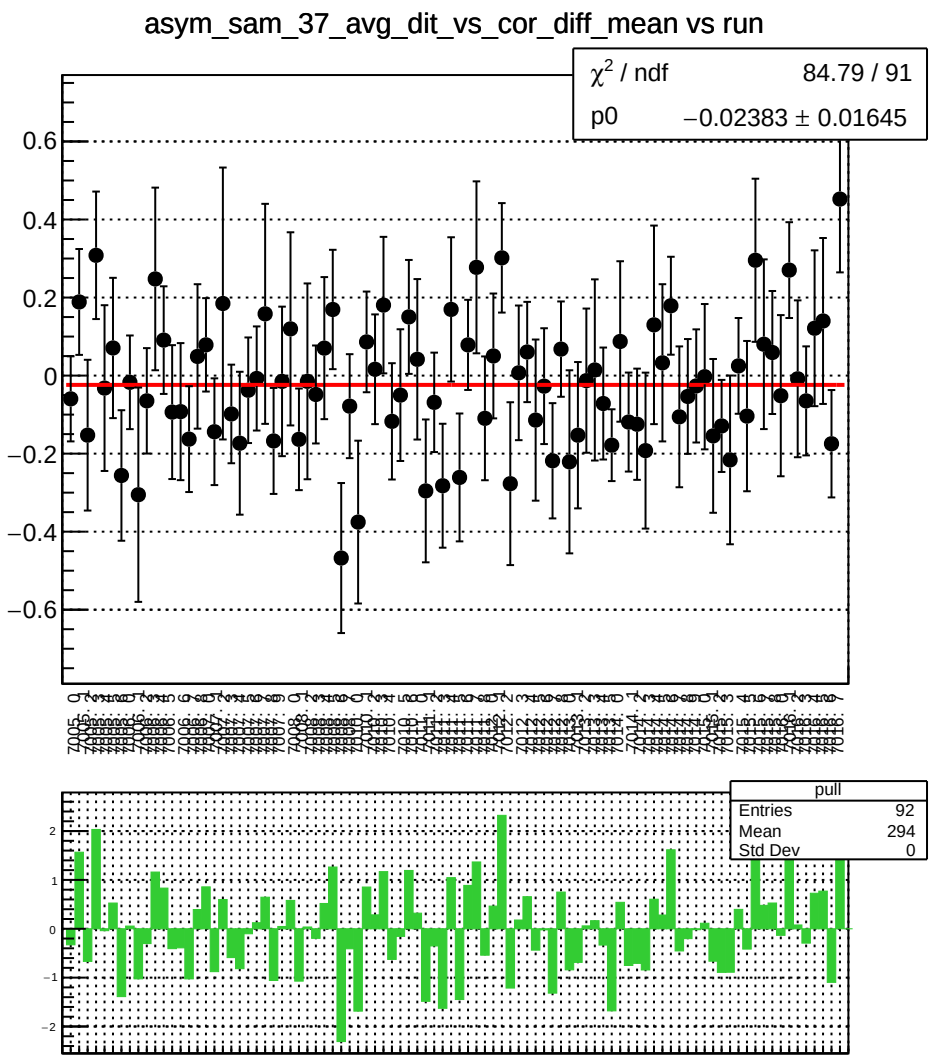

pull1D
Entries 92
Mean −0.01177
Std Dev 0.9186
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

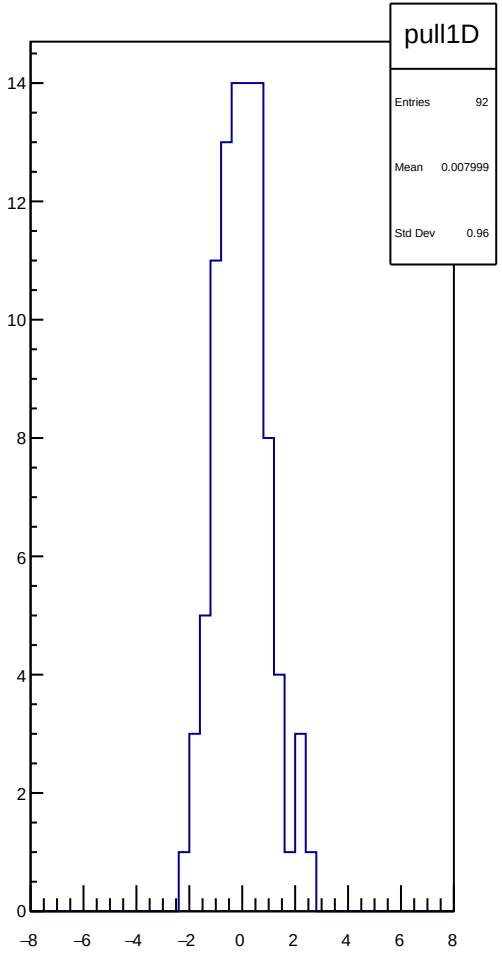

asym_sam_37_avg_rms vs run
χ² / ndf 7935 / 91
p0 692.1 ± 0.5297
850
800
750
700
650
600

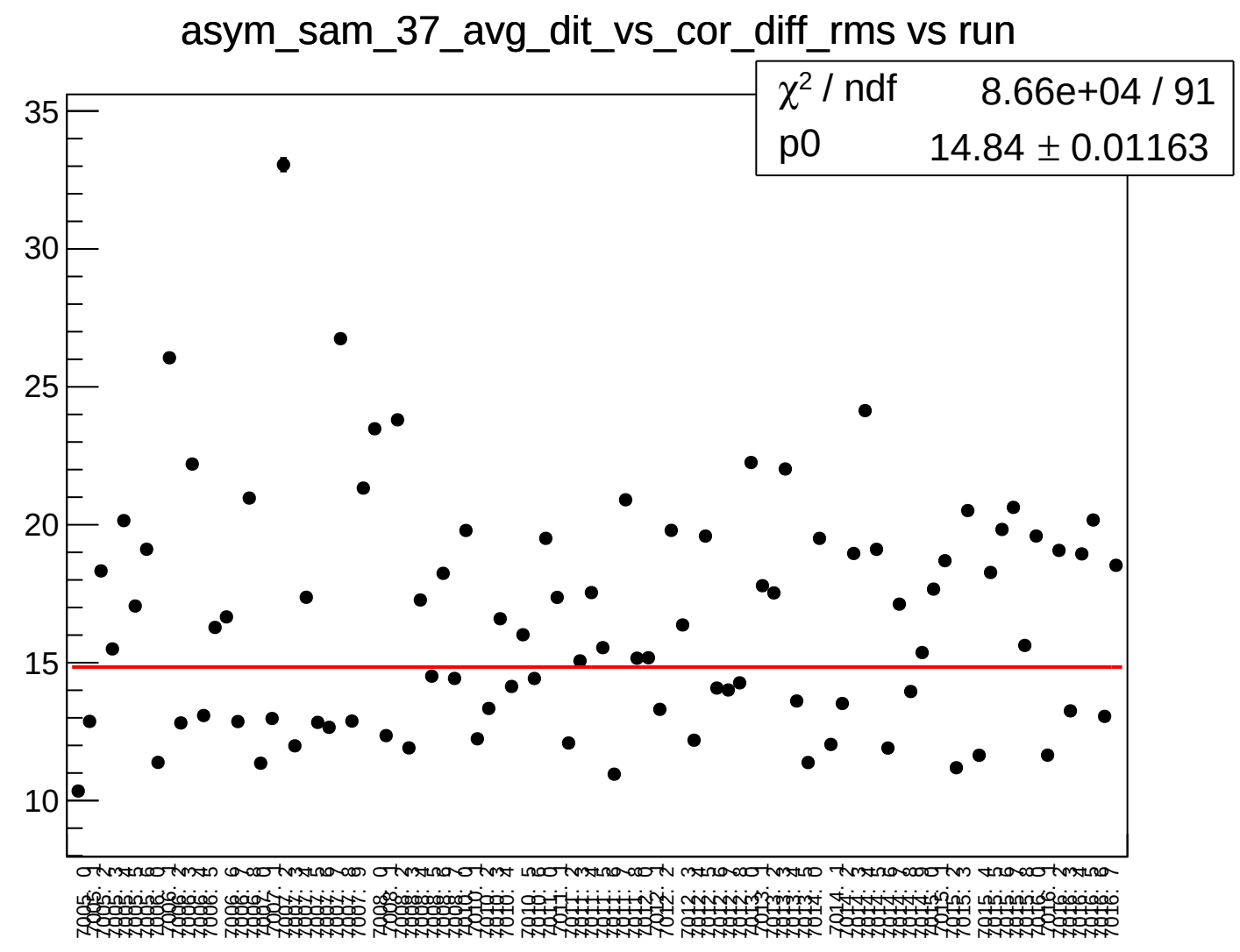

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.38 / 91
p0 −3.29e−14 ± 2.916e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 51.25
Std Dev 17.26
3
2
1
0
−1
−2

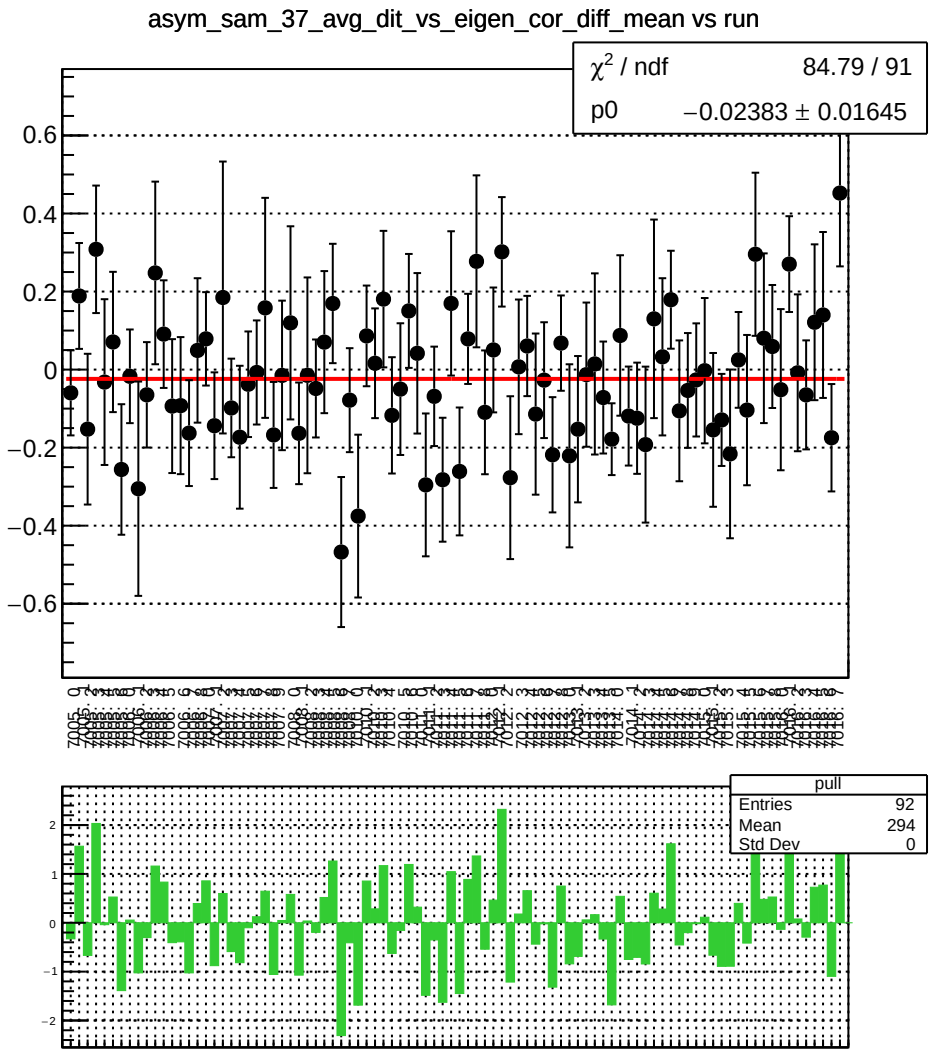

pull1D
Entries 92
Mean −0.09818
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

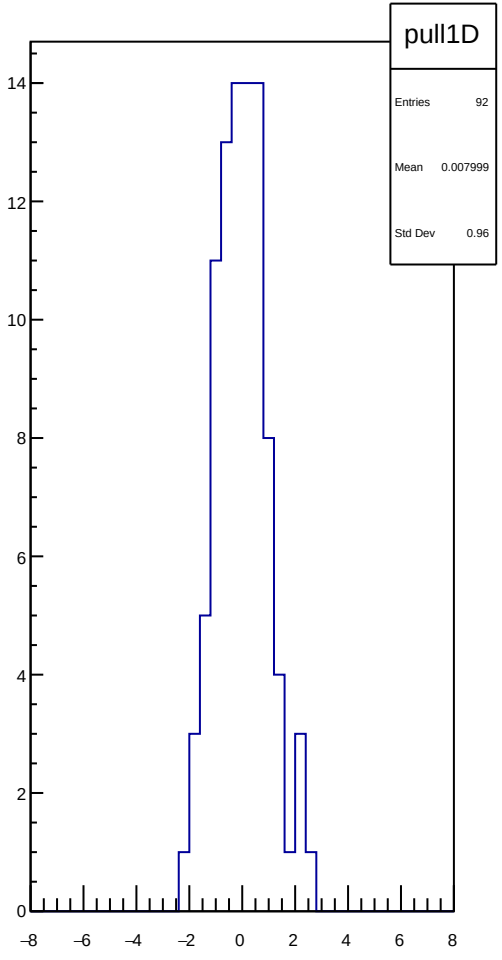

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.07e+06 / 91
p0 1.657e−11 ± 2.062e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

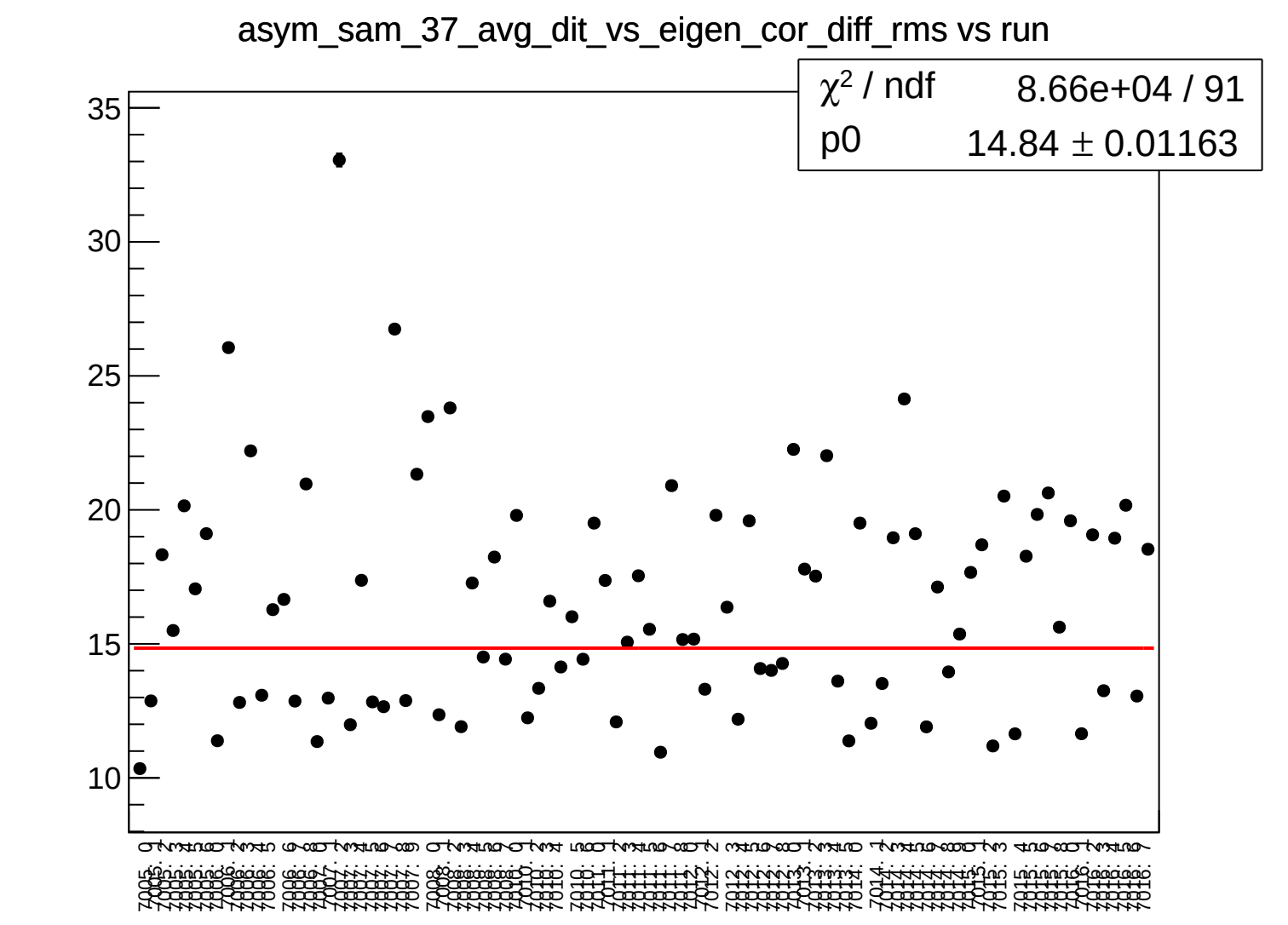

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.79 / 91
p0 −0.02383 ± 0.01645
pull
Entries 92
Mean 294
Std Dev 0

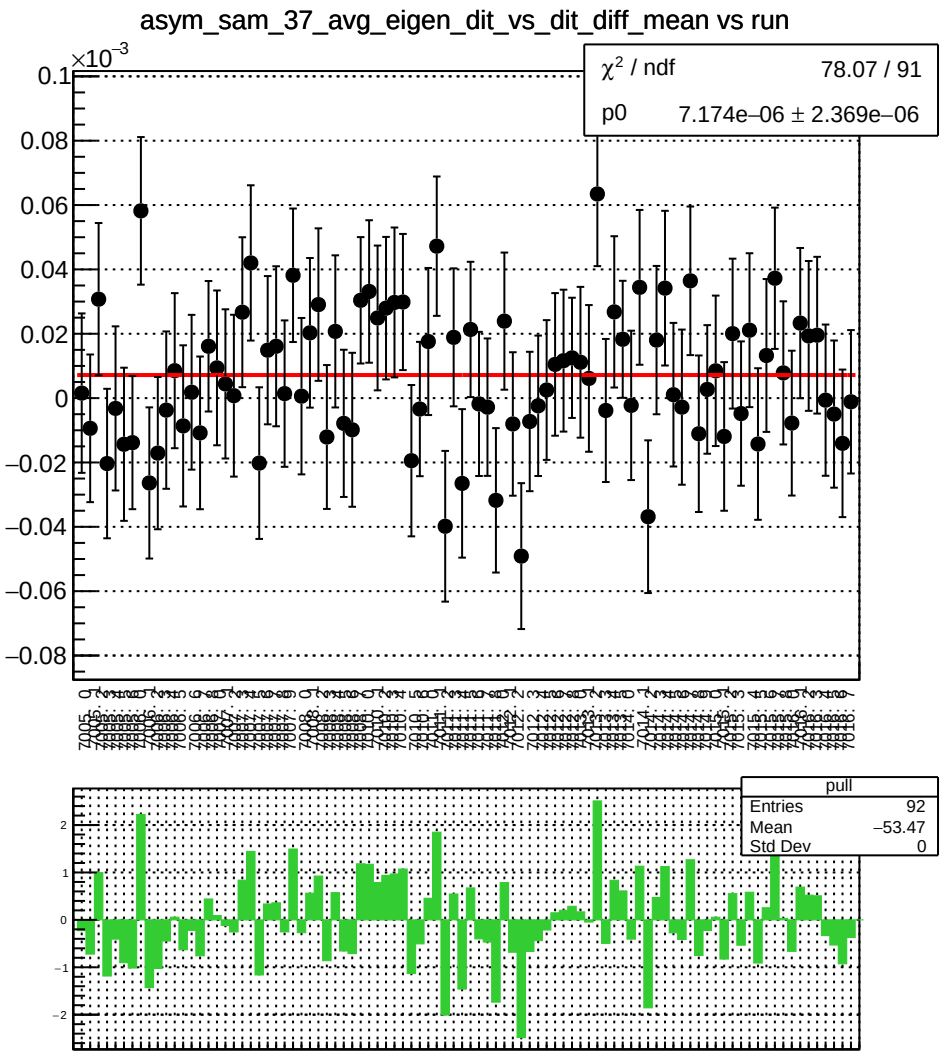

pull1D
Entries 92
Mean 0.007999
Std Dev 0.96

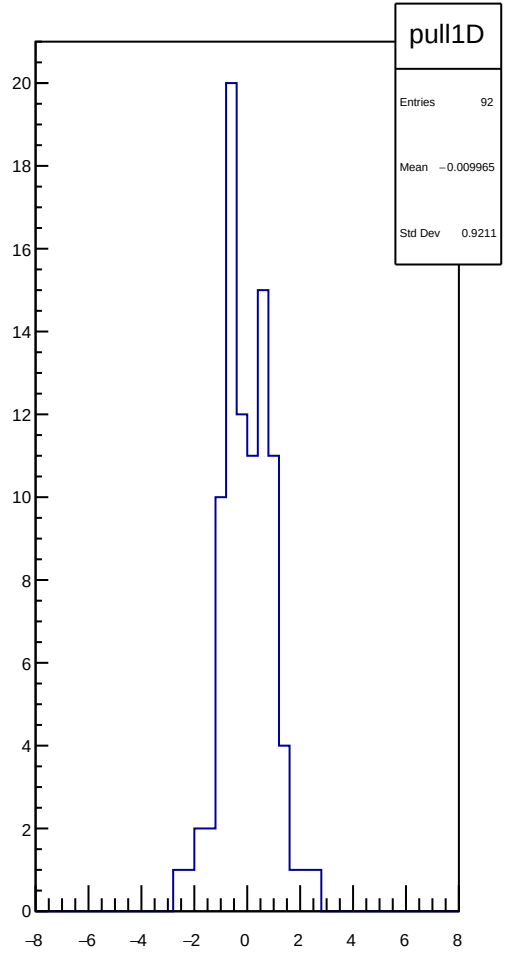

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.66e+04 / 91
p0 14.84 ± 0.01163
35
30
25
20
15
10

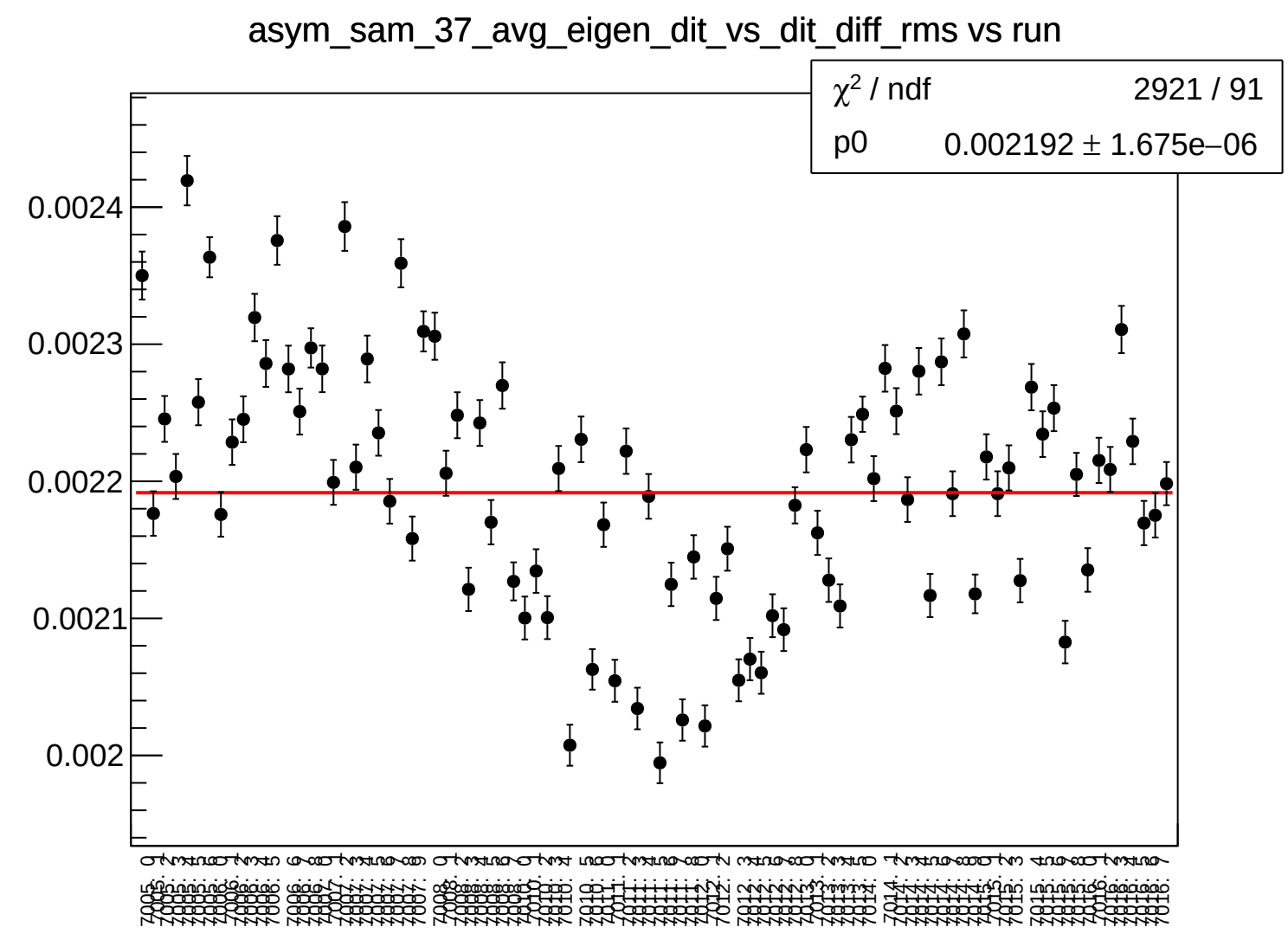

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.79 / 91
p0 −0.02383 ± 0.01645
pull
Entries 92
Mean 294
Std Dev 0

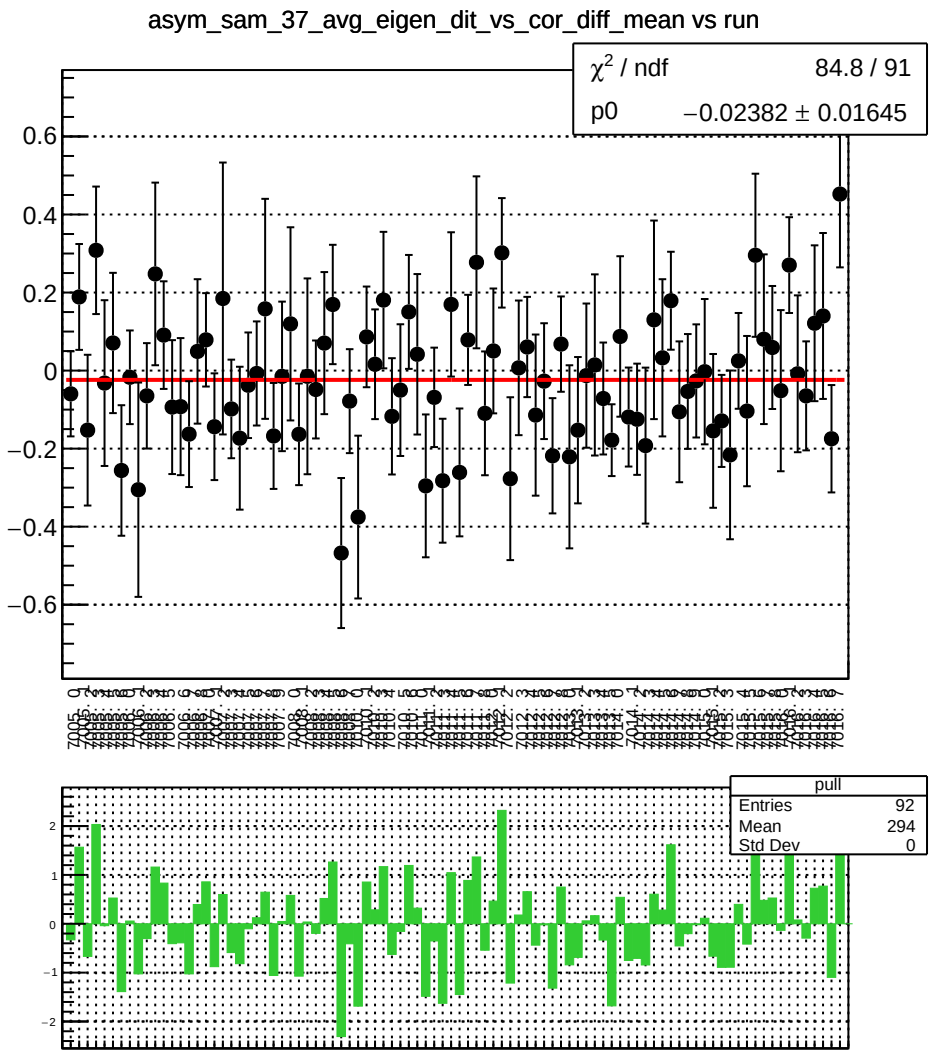

pull1D
Entries 92
Mean 0.007999
Std Dev 0.96

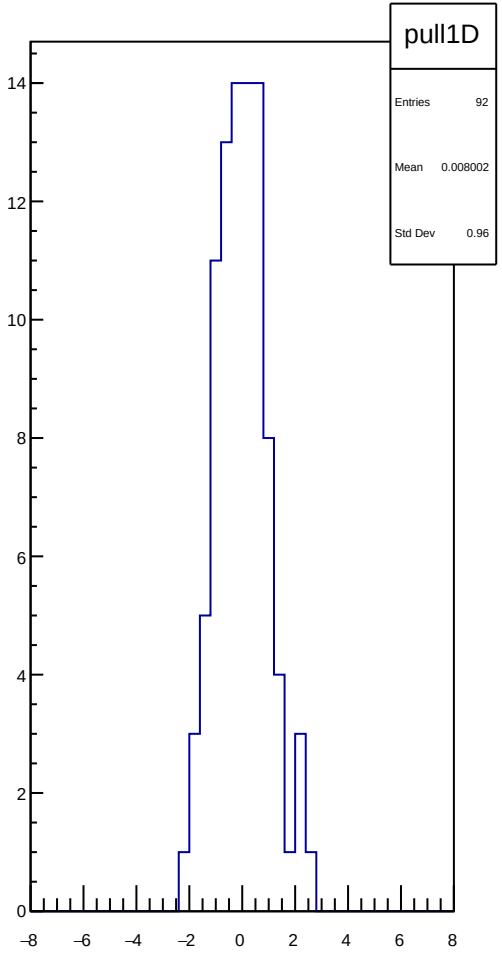

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.66e+04 / 91
p0 14.84 ± 0.01163
35
30
25
20
15
10

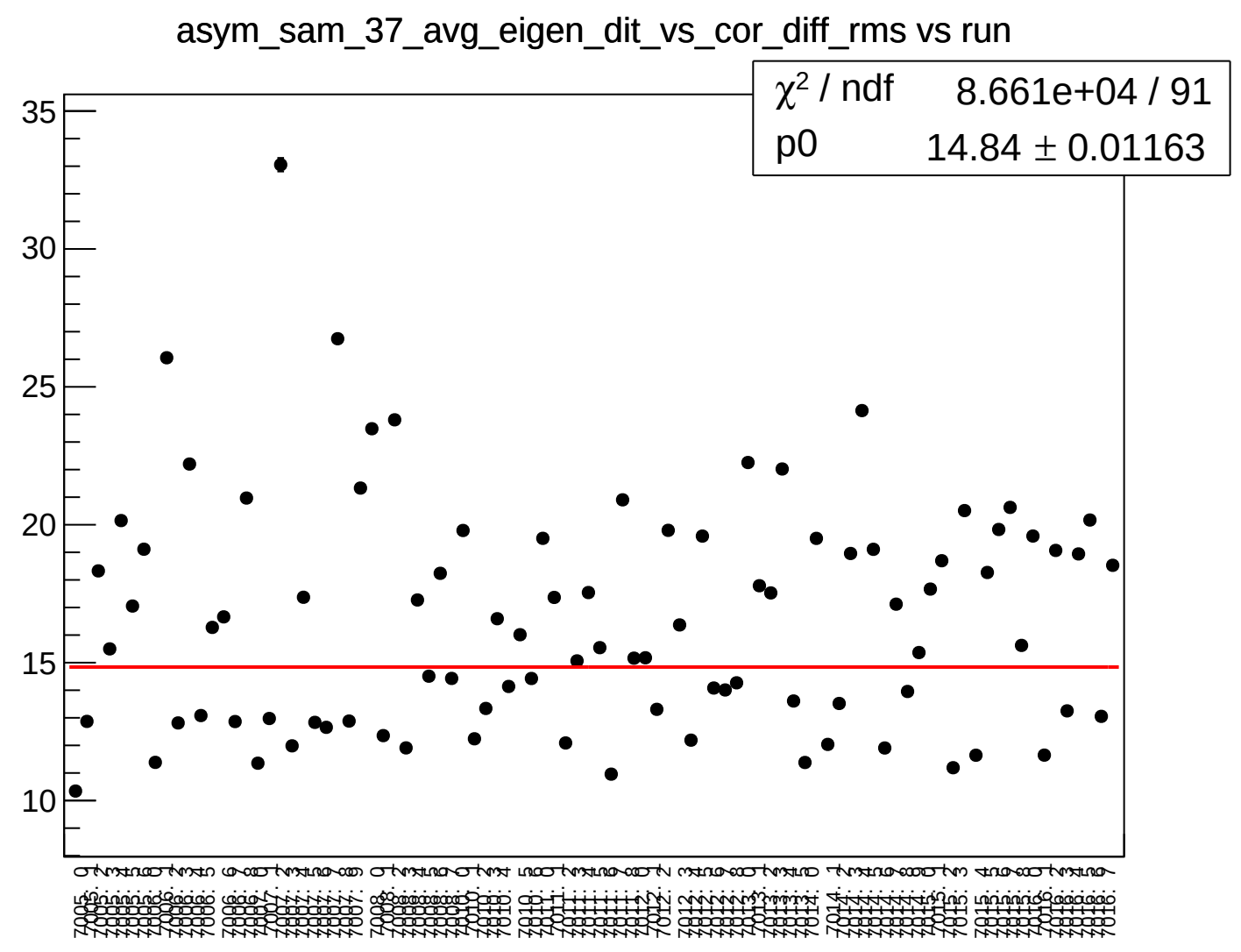

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.07 / 91
p0 7.174e−06 ± 2.369e−06
pull
Entries 92
Mean −53.47
Std Dev 0

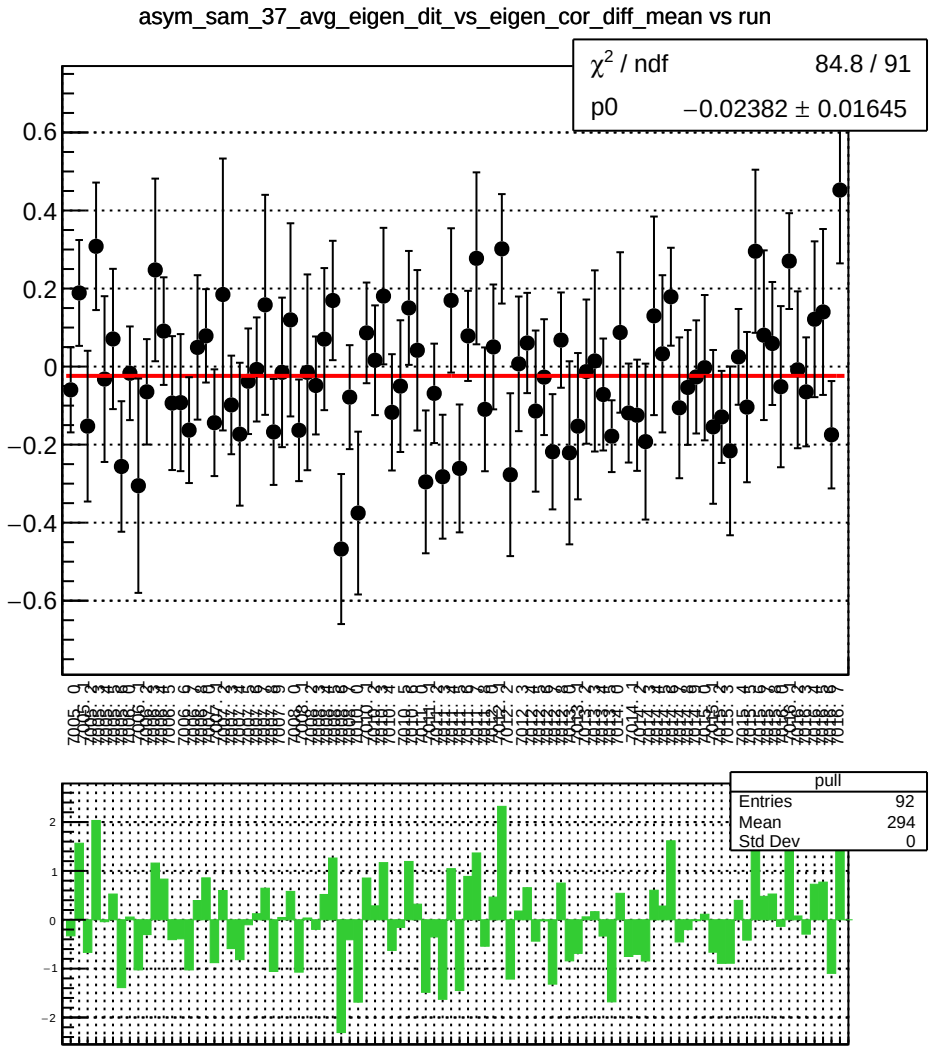

pull1D
Entries 92
Mean −0.009965
Std Dev 0.9211

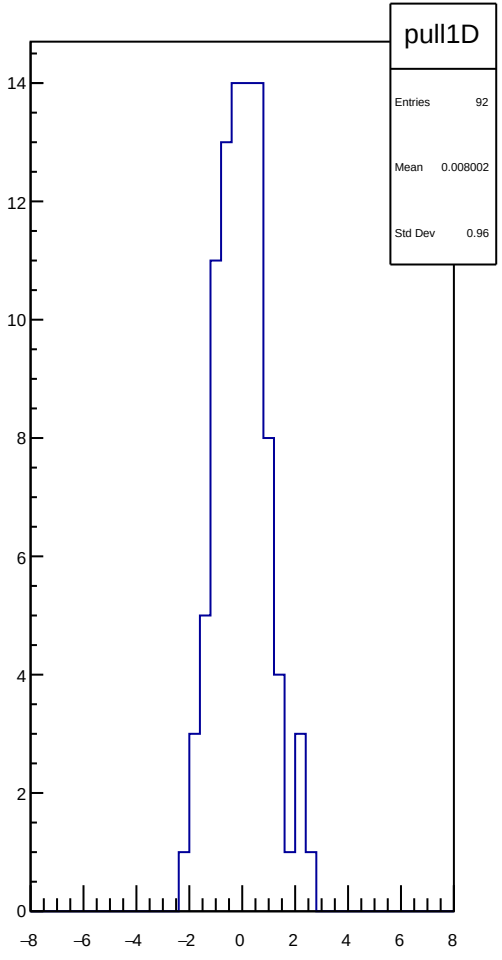

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2921 / 91
p0 0.002192 ± 1.675e−06
0.0024
0.0023
0.0022
0.0021
0.002

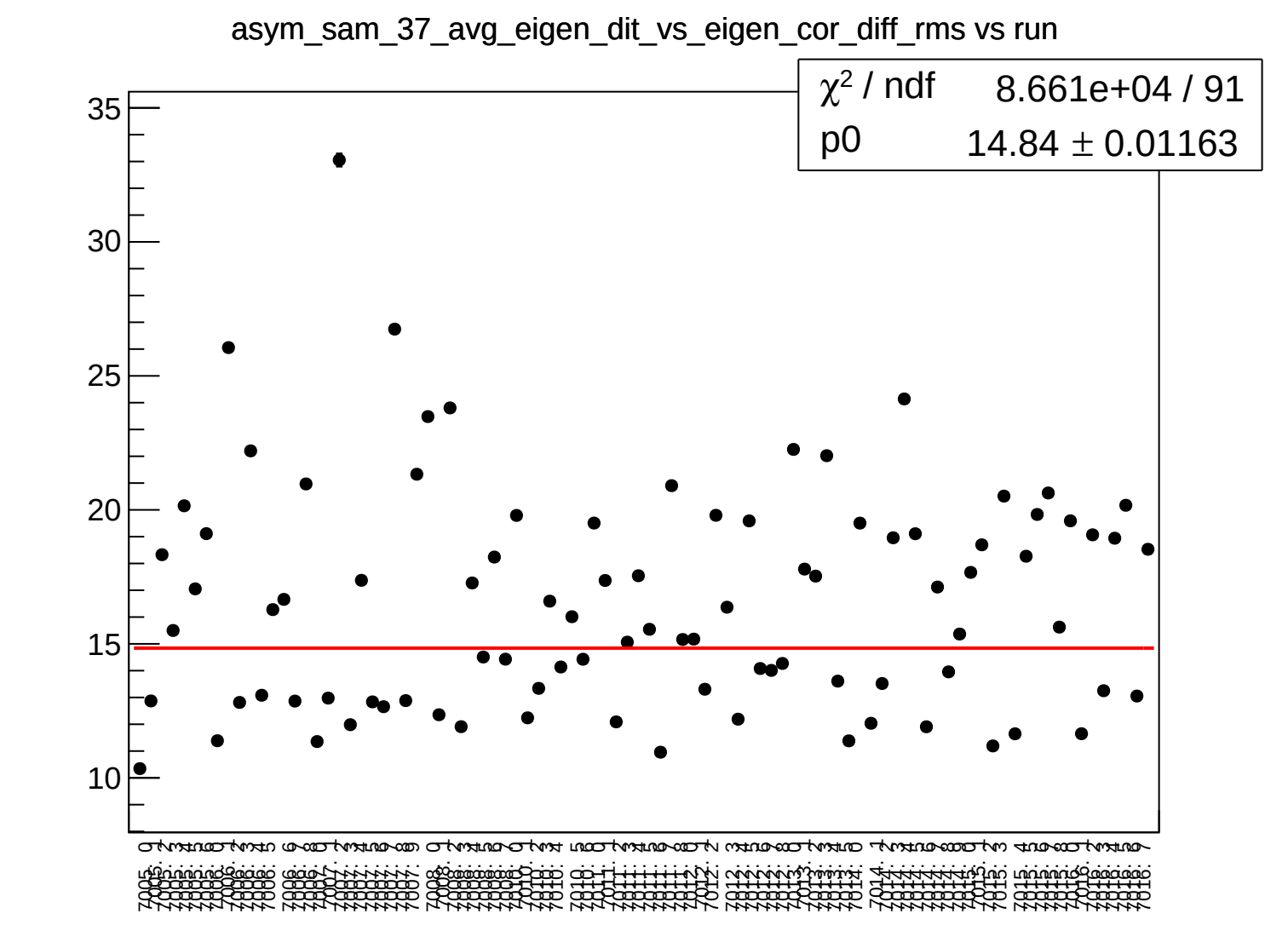

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.8 / 91
p0 −0.02382 ± 0.01645
pull
Entries 92
Mean 294
Std Dev 0

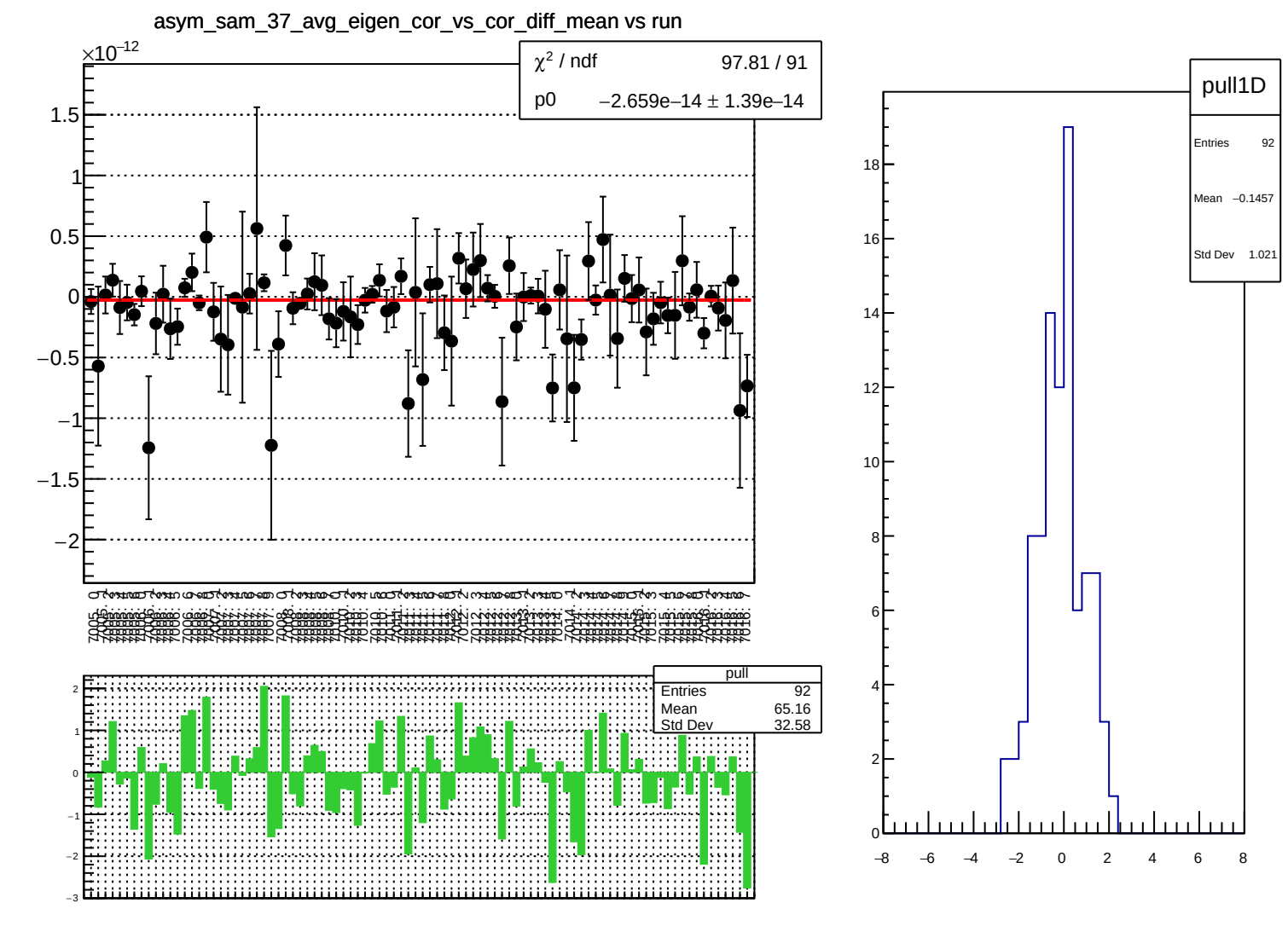

pull1D
Entries 92
Mean 0.008002
Std Dev 0.96

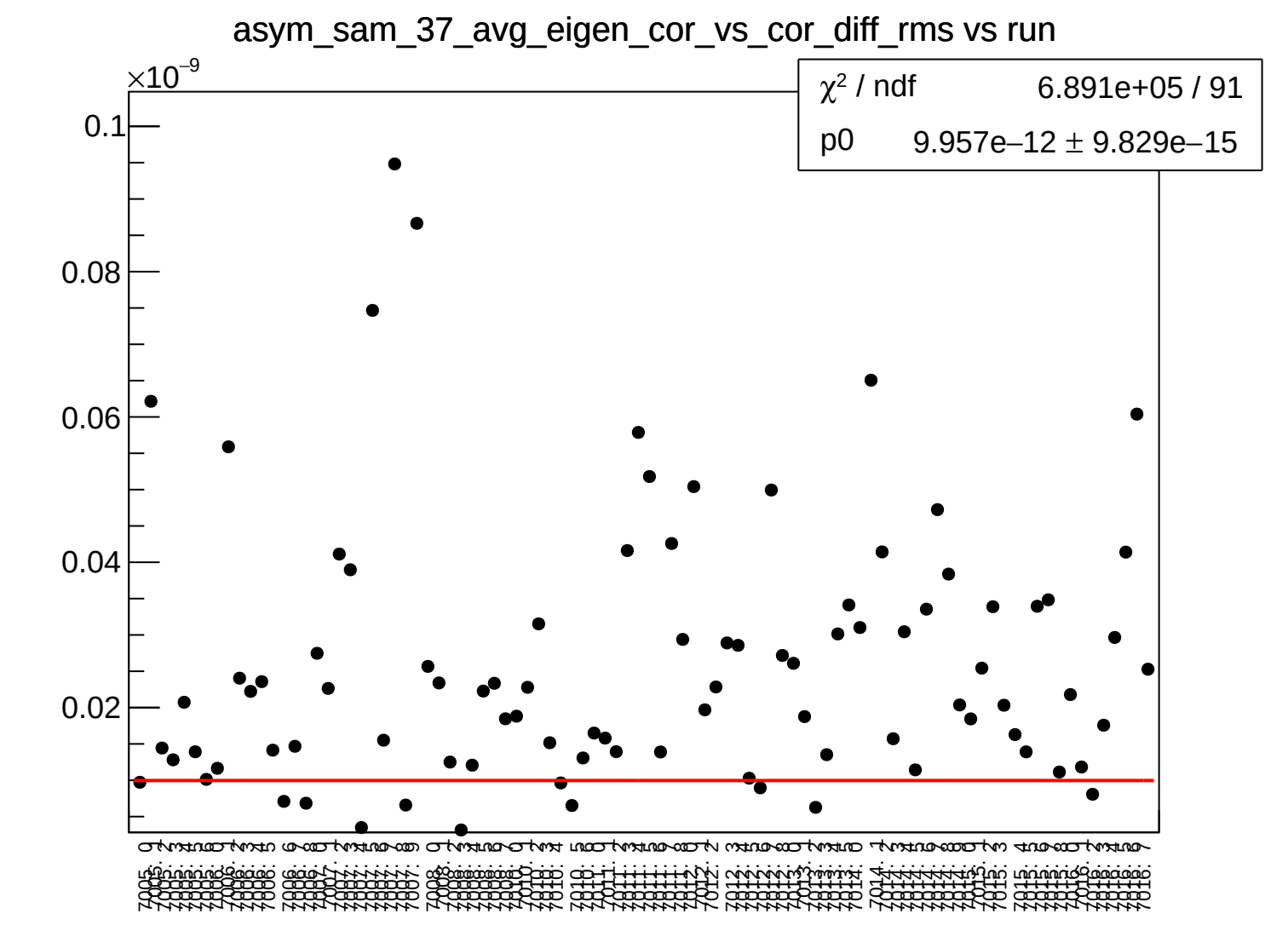

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.661e+04 / 91
p0 14.84 ± 0.01163
35
30
25
20
15
10

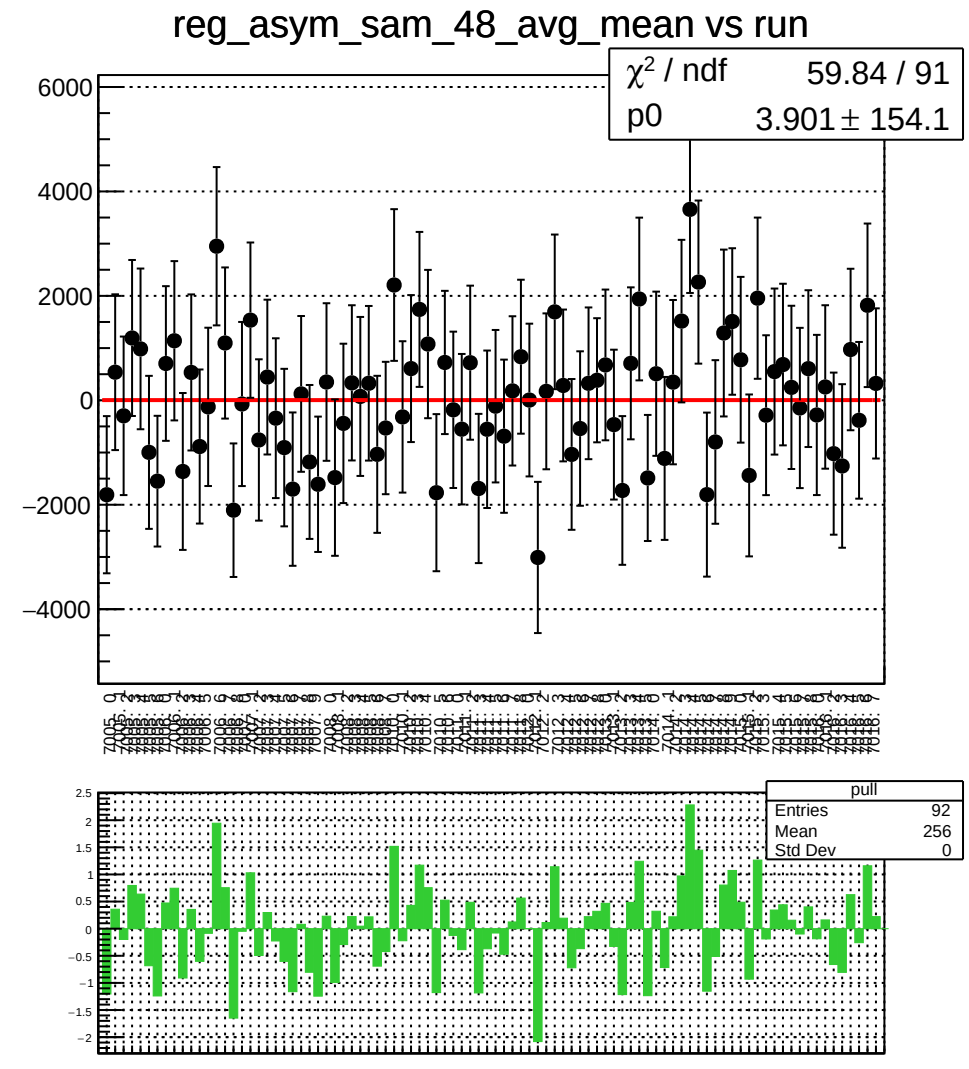

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.8 / 91
p0 −0.02382 ± 0.01645
pull
Entries 92
Mean 294
Std Dev 0

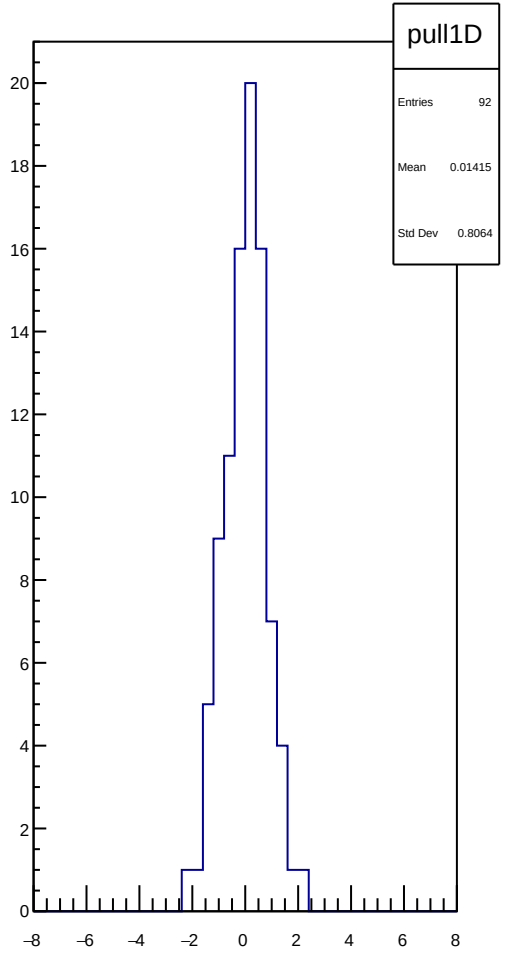

pull1D
Entries 92
Mean 0.008002
Std Dev 0.96

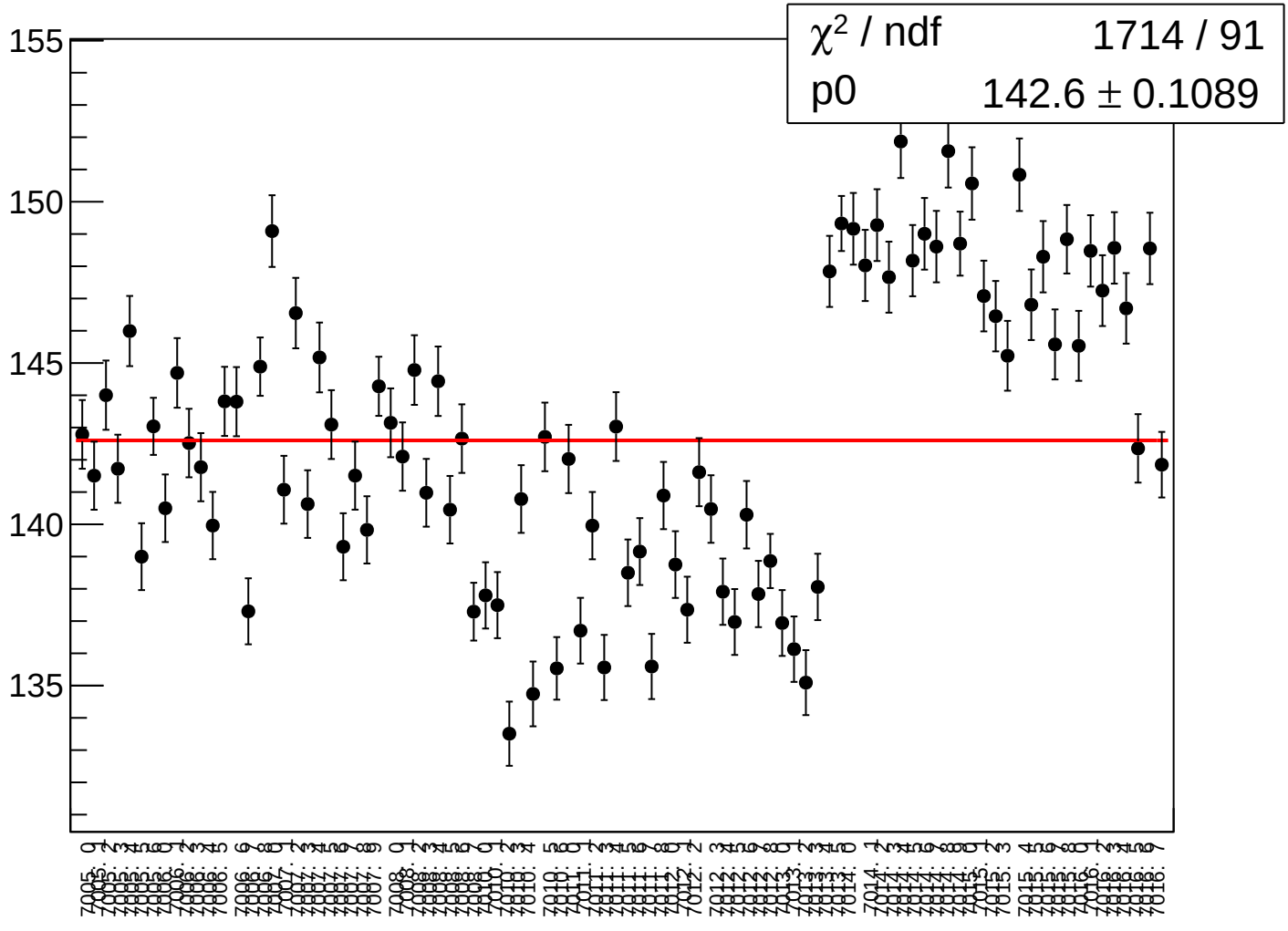

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.661e+04 / 91
p0 14.84 ± 0.01163
35
30
25
20
15
10

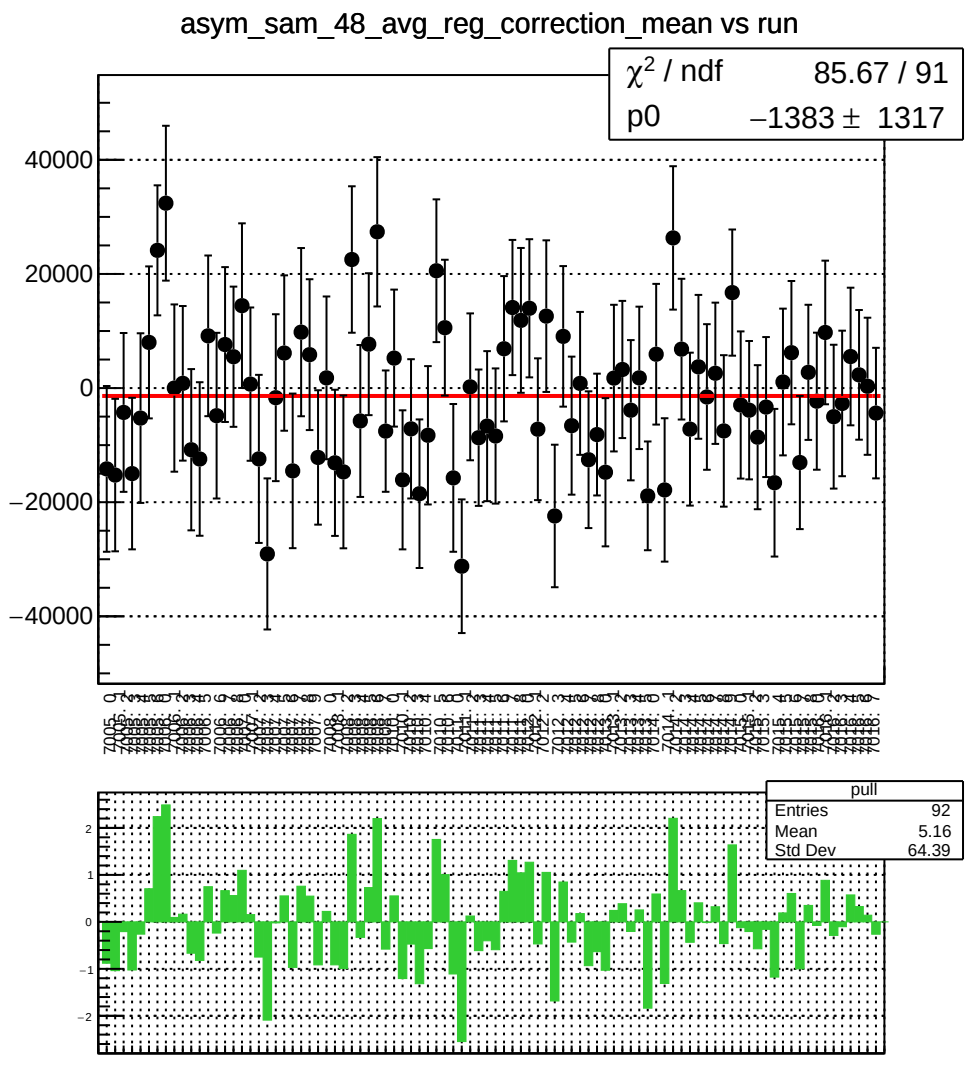

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.81 / 91
p0 −2.659e−14 ± 1.39e−14
pull
Entries 92
Mean 65.16
Std Dev 32.58
pull1D
Entries 92
Mean −0.1457
Std Dev 1.021

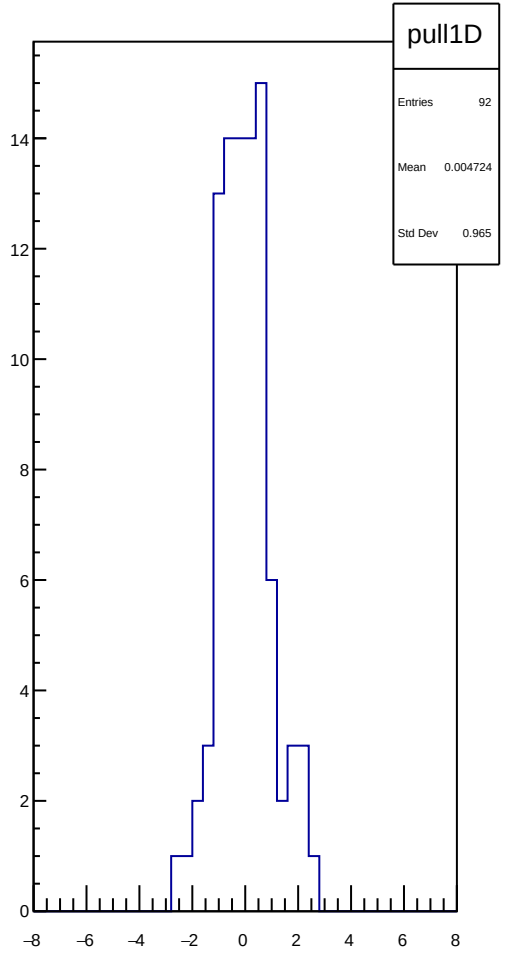

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.891e+05 / 91
p0 9.957e−12 ± 9.829e−15
0.1
0.08
0.06
0.04
0.02

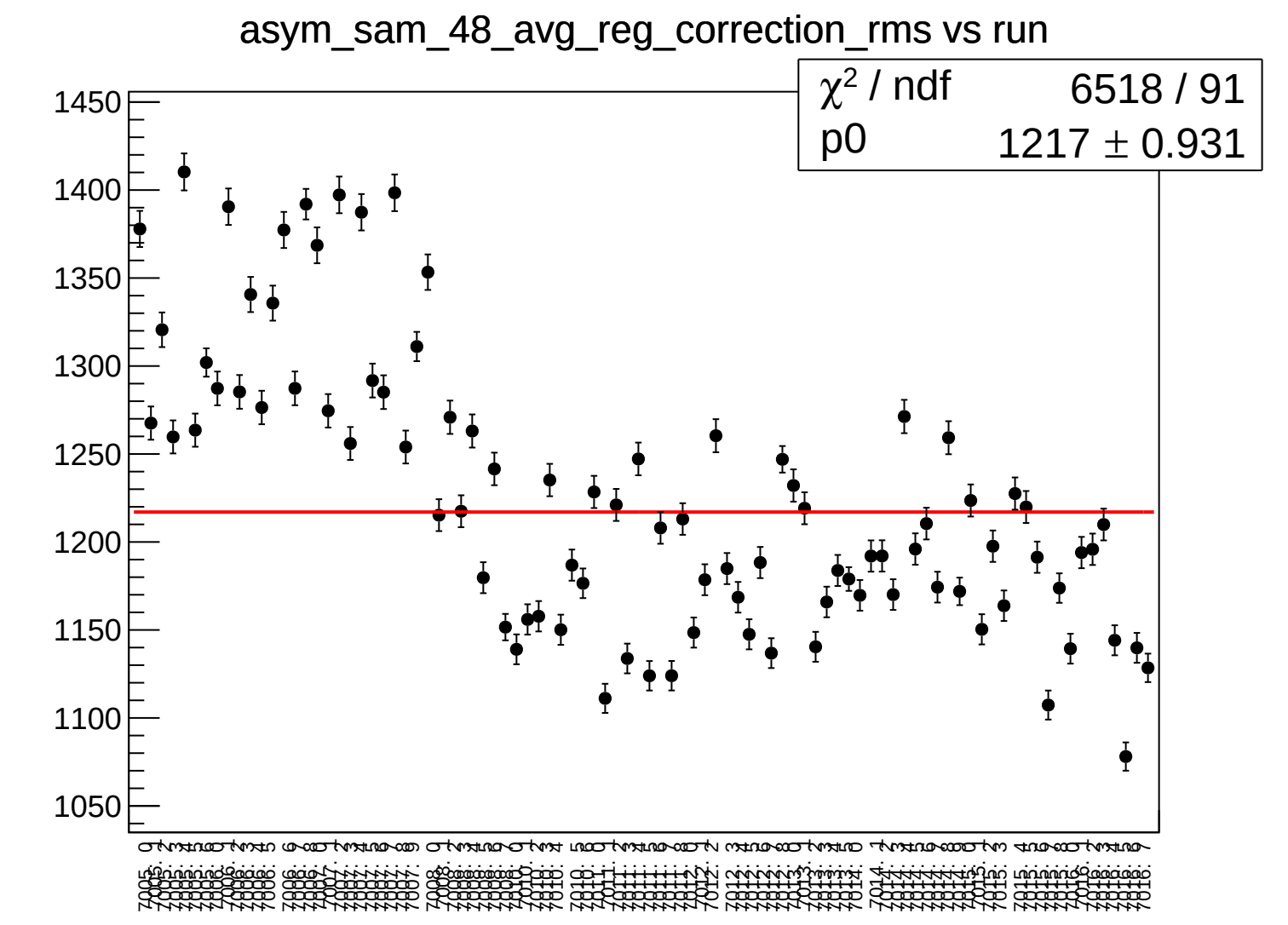

reg_asym_sam_48_avg_mean vs run
χ² / ndf 59.84 / 91
p0 3.901 ± 154.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 256
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

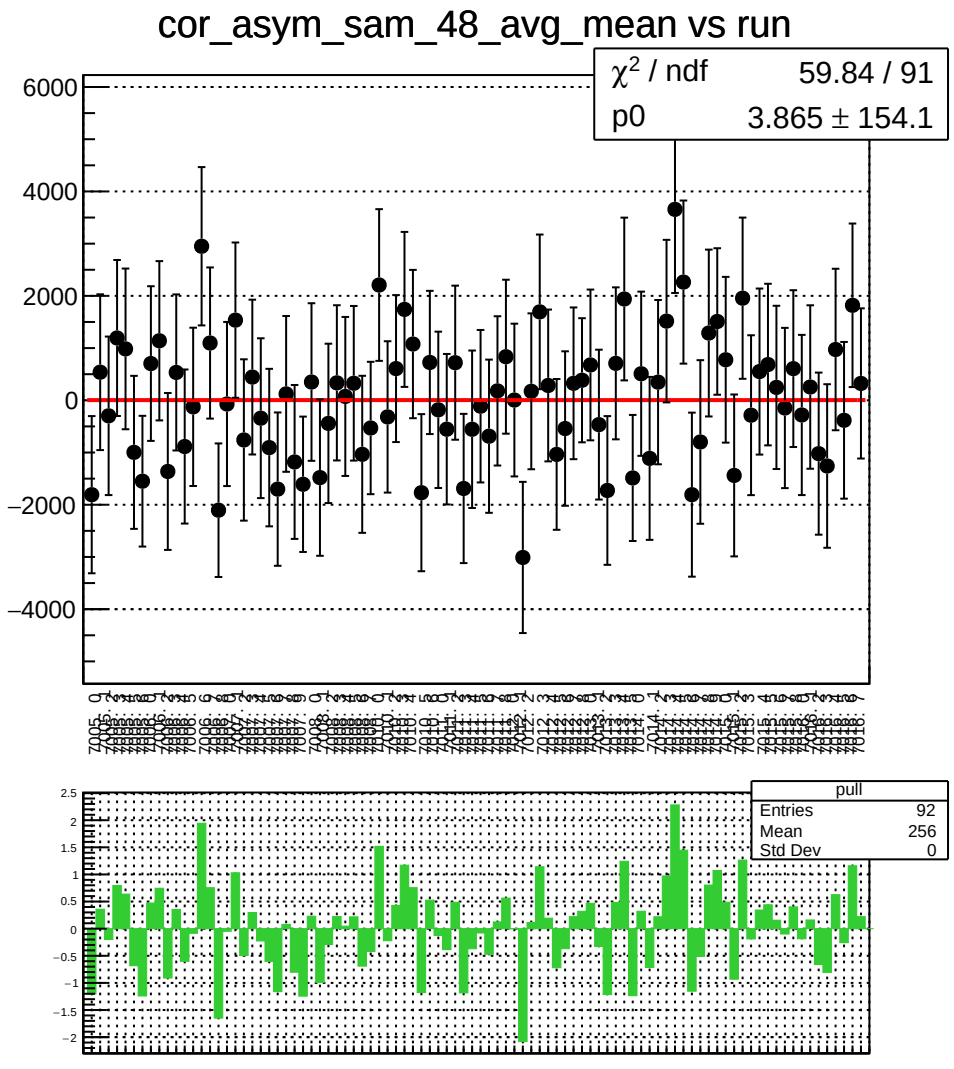

pull1D
Entries 92
Mean 0.01415
Std Dev 0.8064
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

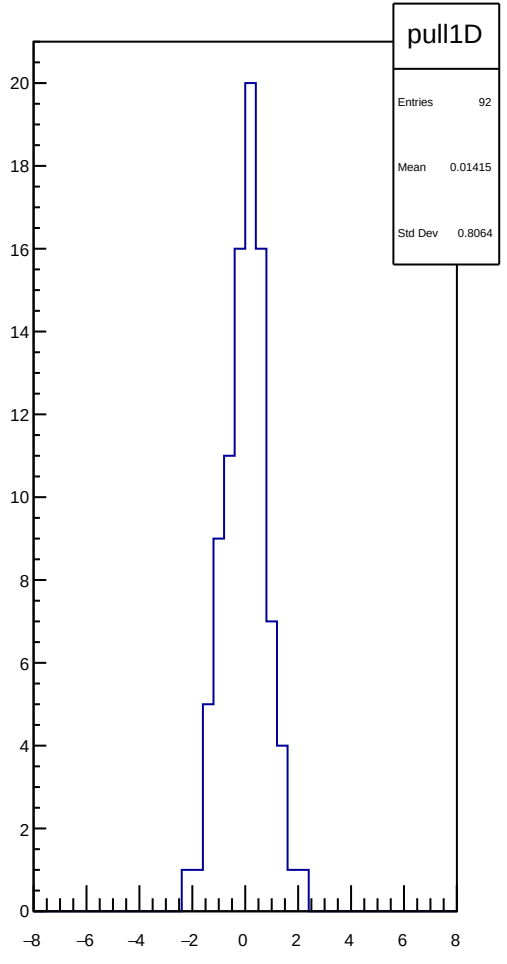

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1714 / 91
p0 142.6 ± 0.1089
155
150
145
140
135

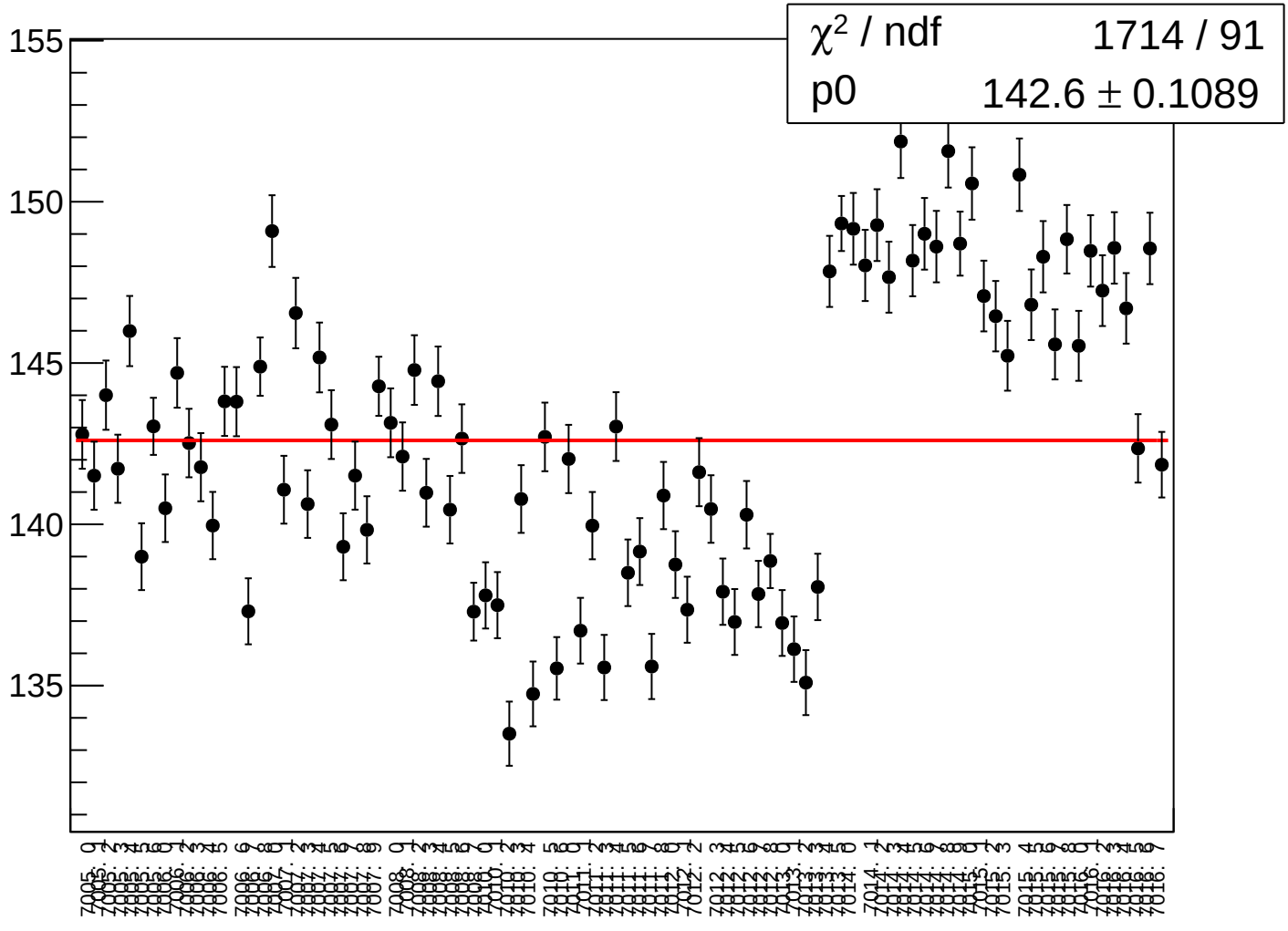

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 85.67 / 91
p0 −1383 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 5.16
Std Dev 64.39
2
1
0
−1
−2

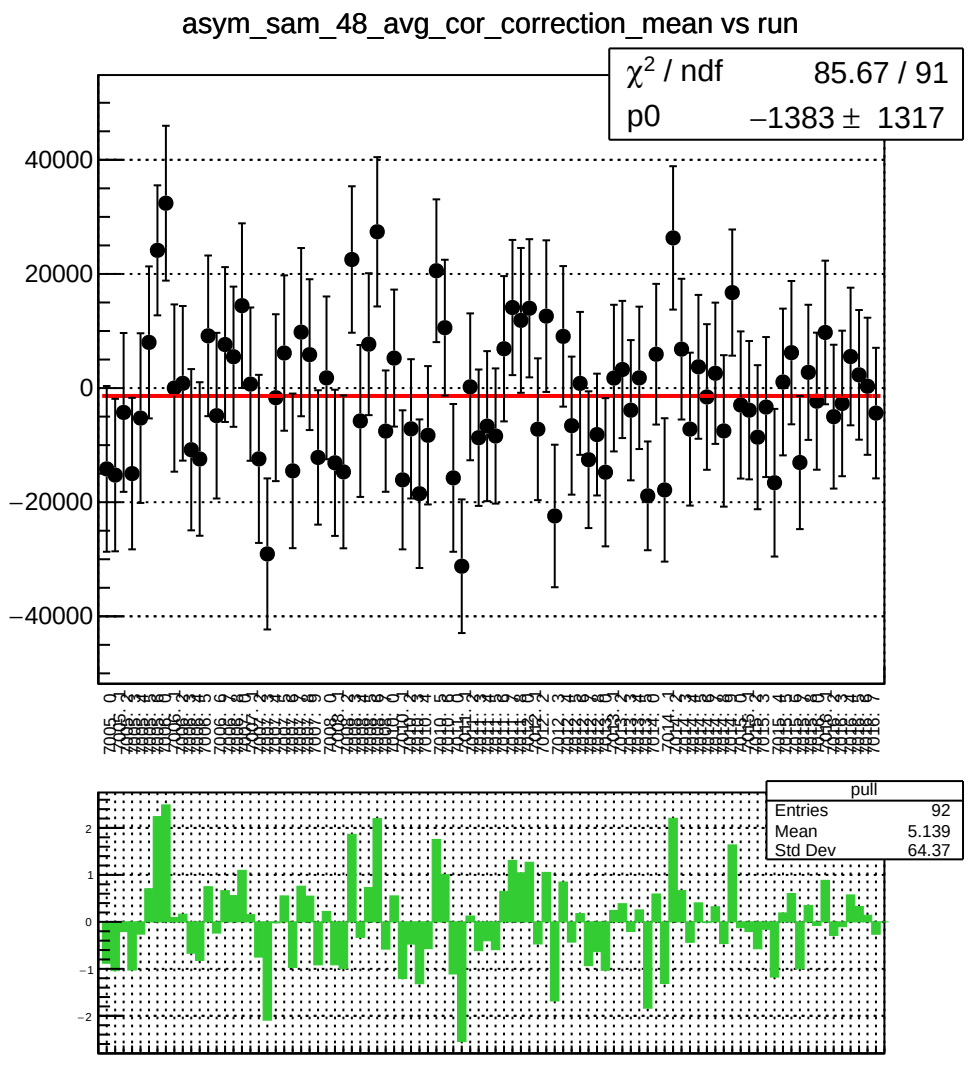

pull1D
Entries 92
Mean 0.004724
Std Dev 0.965
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

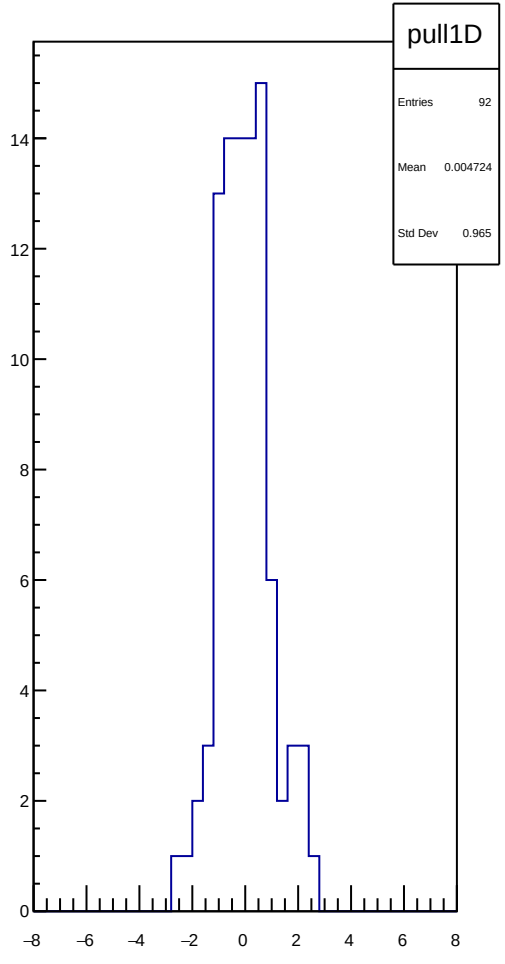

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 6518 / 91
p0 1217 ± 0.931
1450
1400
1350
1300
1250
1200
1150
1100
1050

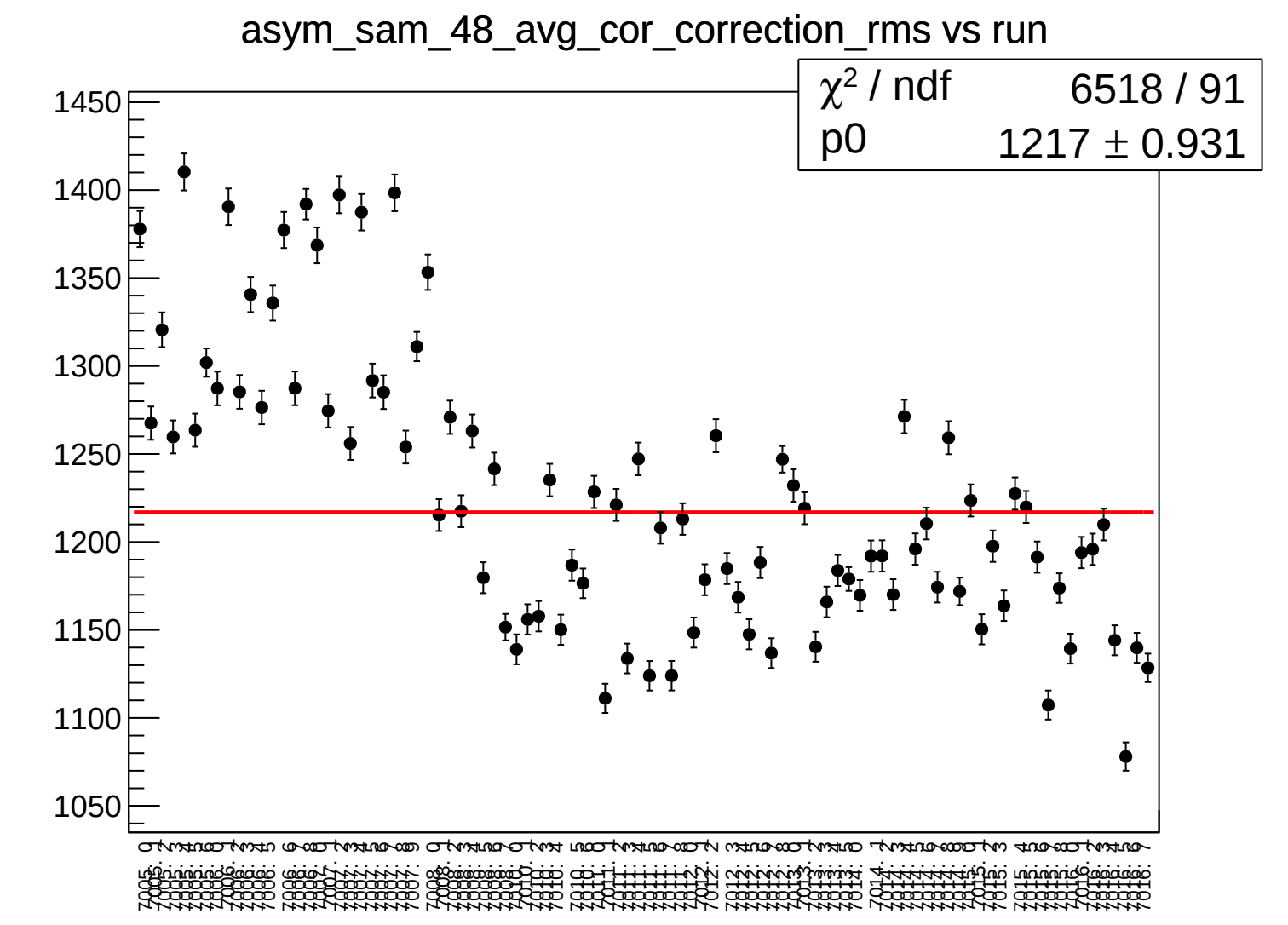

cor_asym_sam_48_avg_mean vs run
χ² / ndf 59.84 / 91
p0 3.865 ± 154.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 256
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

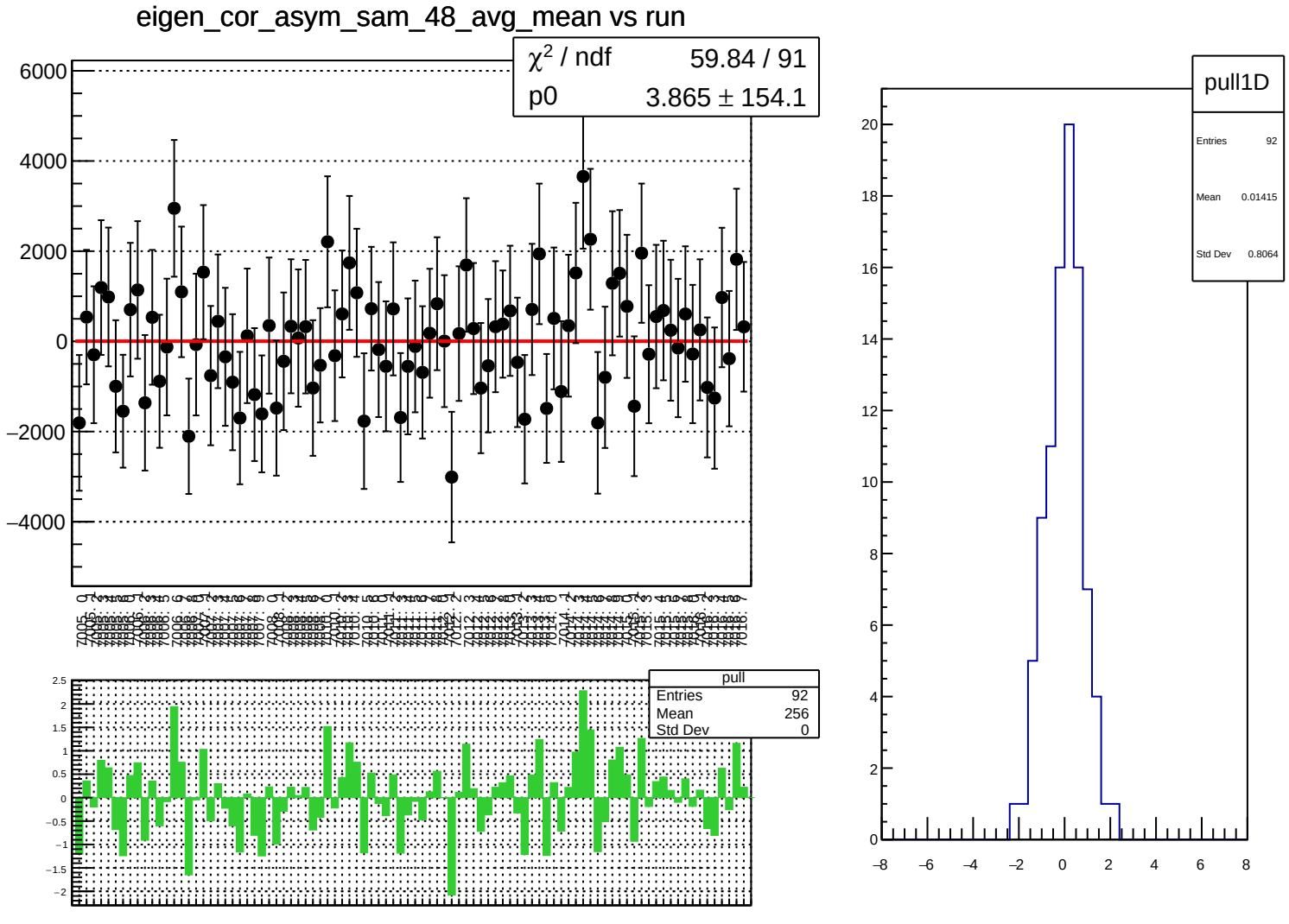

pull1D
Entries 92
Mean 0.01415
Std Dev 0.8064
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

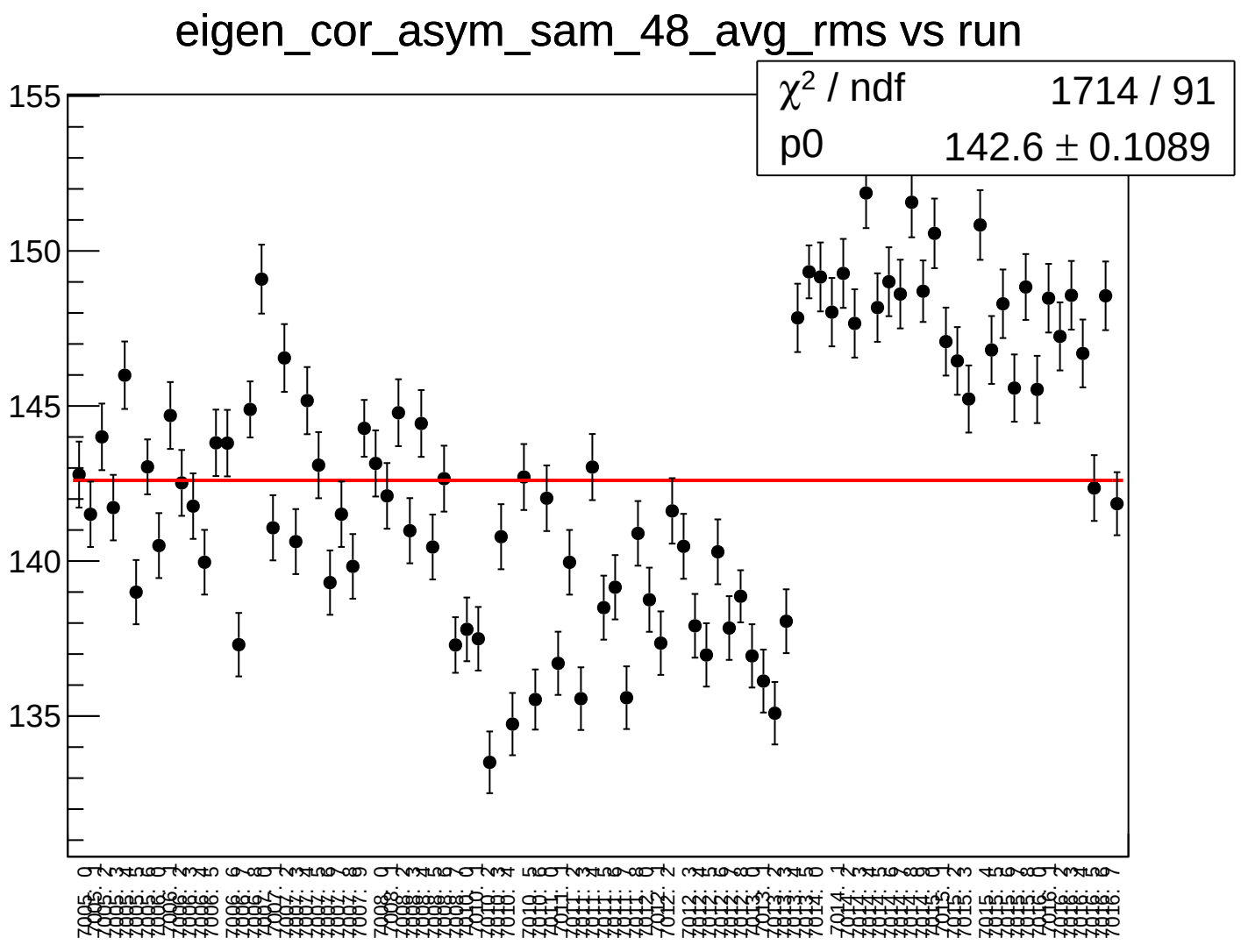

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1714 / 91
p0 142.6 ± 0.1089
155
150
145
140
135

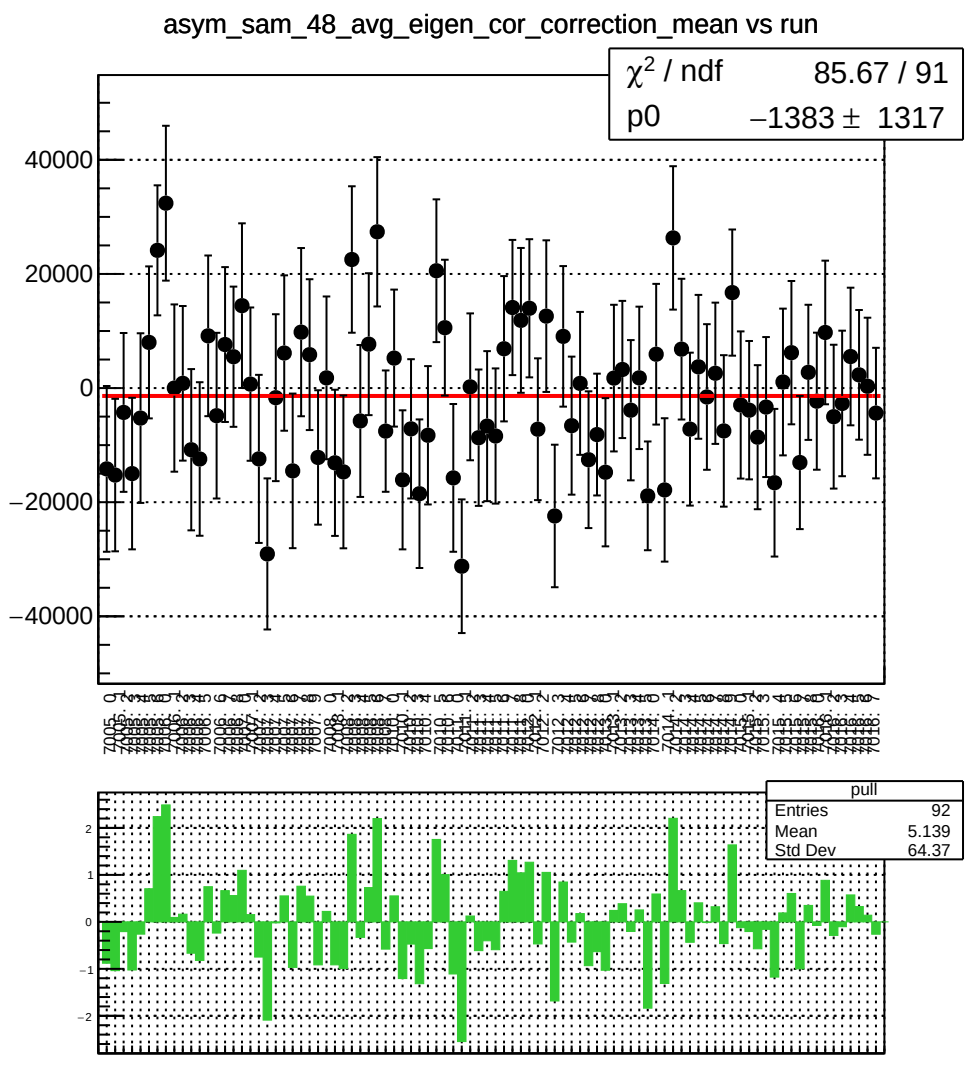

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 85.67 / 91
p0 −1383 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 5.139
Std Dev 64.37
2
1
0
−1
−2

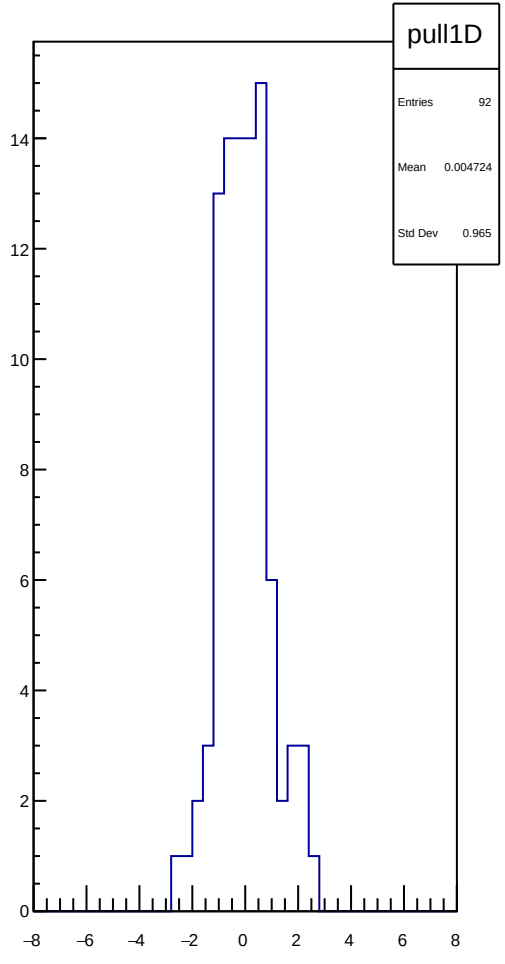

pull1D
Entries 92
Mean 0.004724
Std Dev 0.965
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

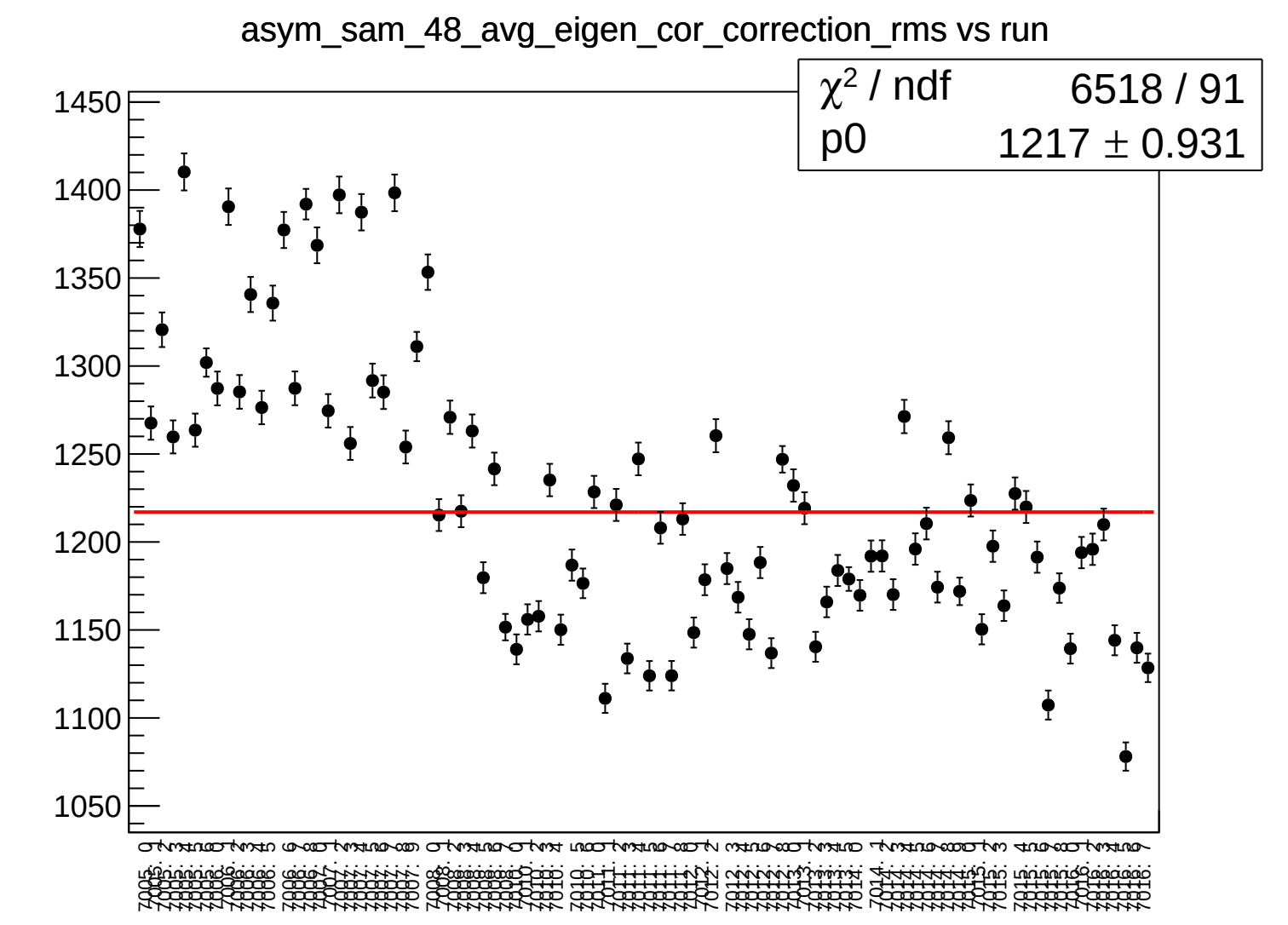

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 6518 / 91
p0 1217 ± 0.931
1450
1400
1350
1300
1250
1200
1150
1100
1050

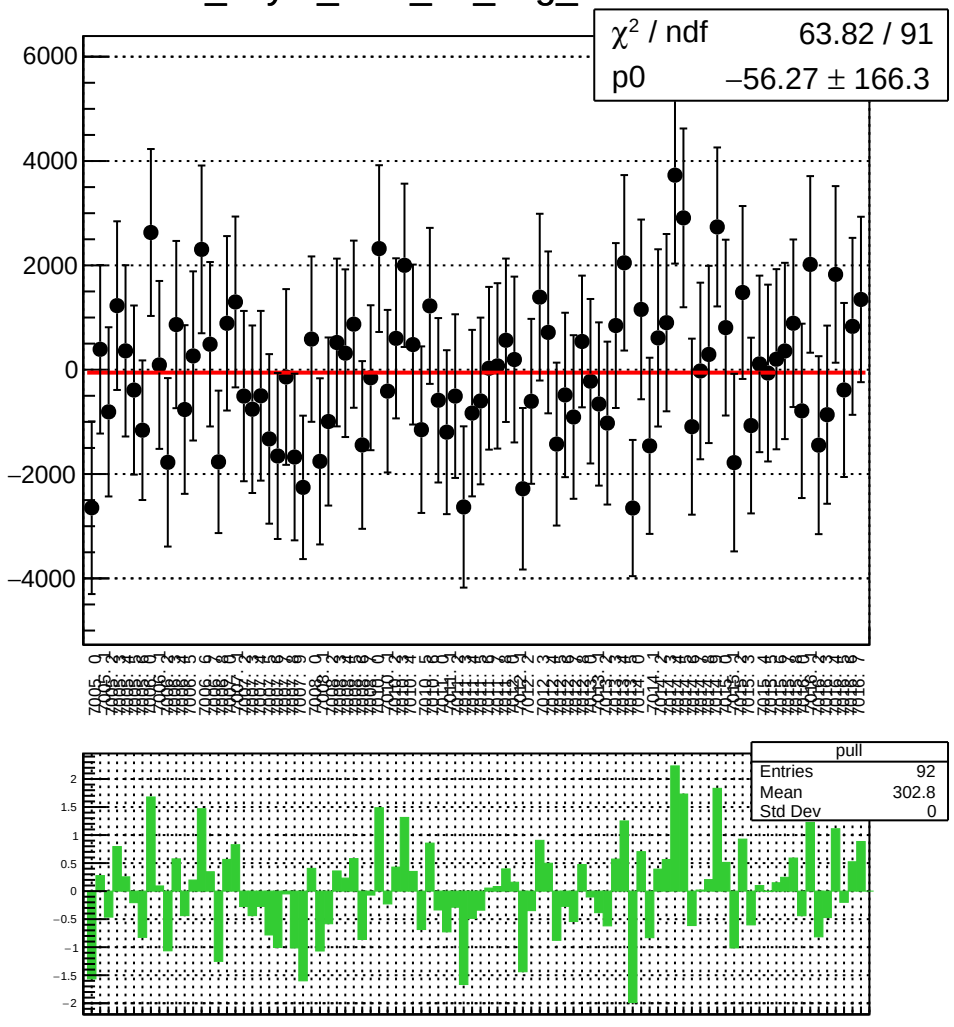

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 59.84 / 91
p0 3.865 ± 154.1
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 256
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.01415
Std Dev 0.8064
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

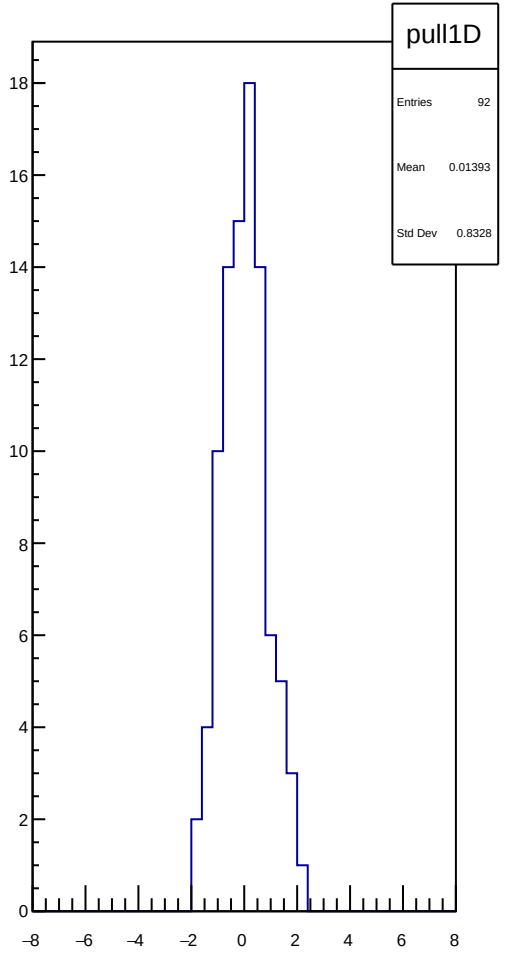

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1714 / 91
p0 142.6 ± 0.1089
155
150
145
140
135

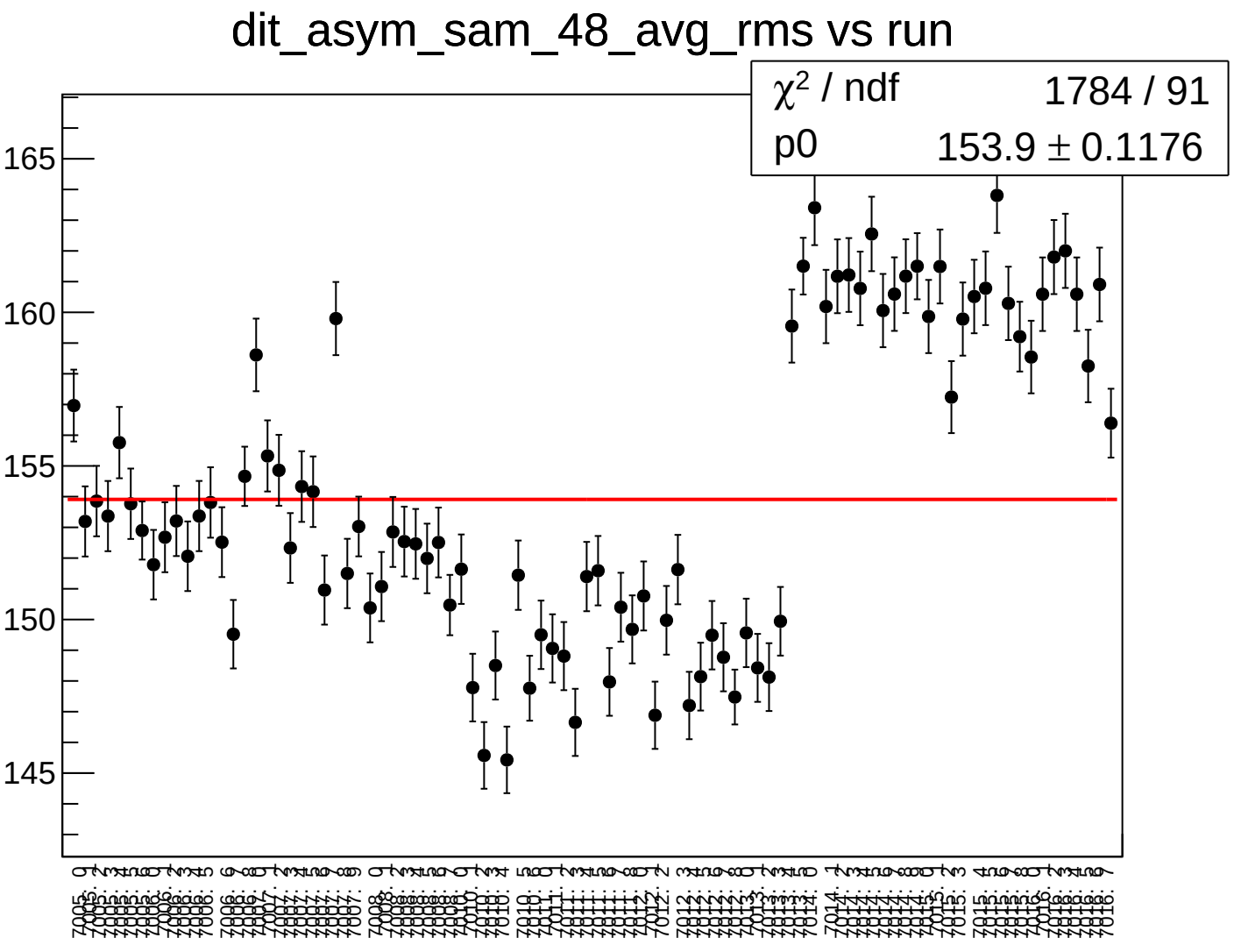

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.67 / 91
p0 −1383 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 5.139
Std Dev 64.37
2
1
0
−1
−2

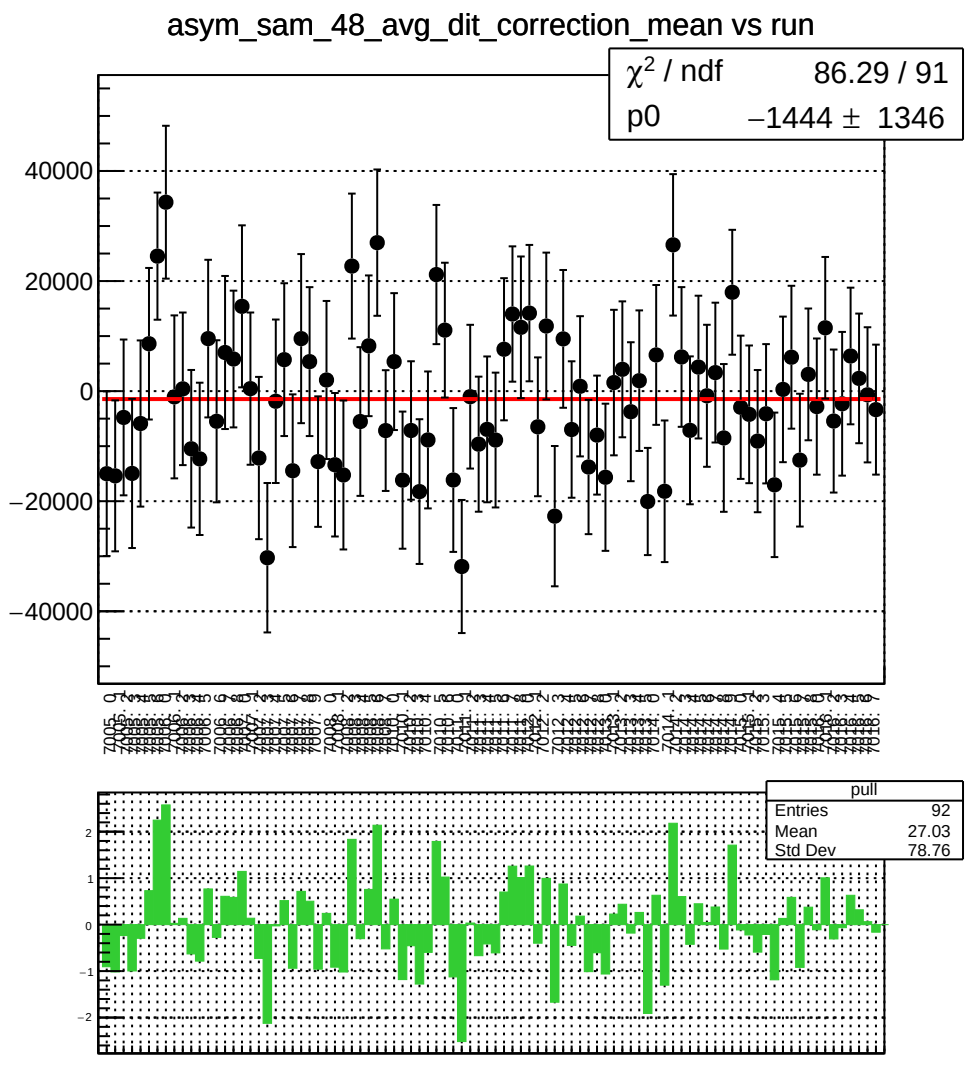

pull1D
Entries 92
Mean 0.004724
Std Dev 0.965
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

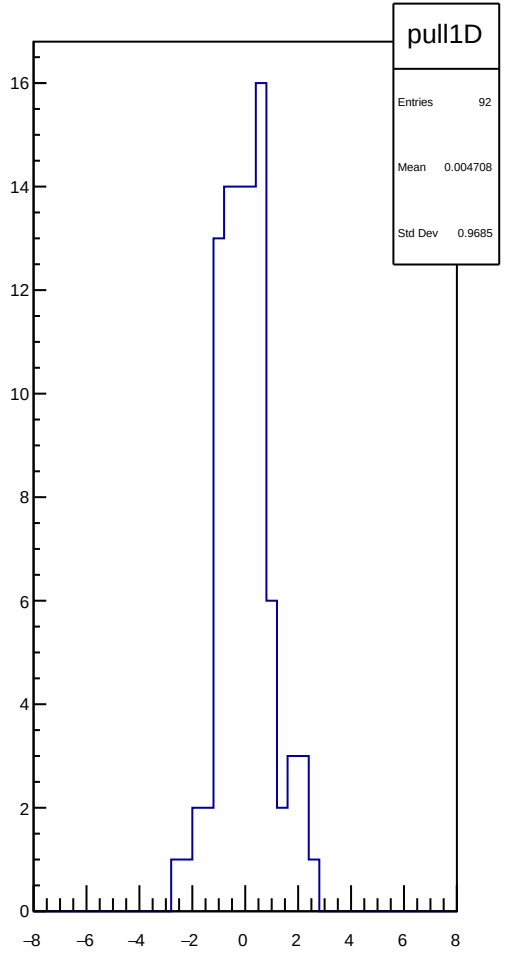

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 6518 / 91
p0 1217 ± 0.931
1450
1400
1350
1300
1250
1200
1150
1100
1050

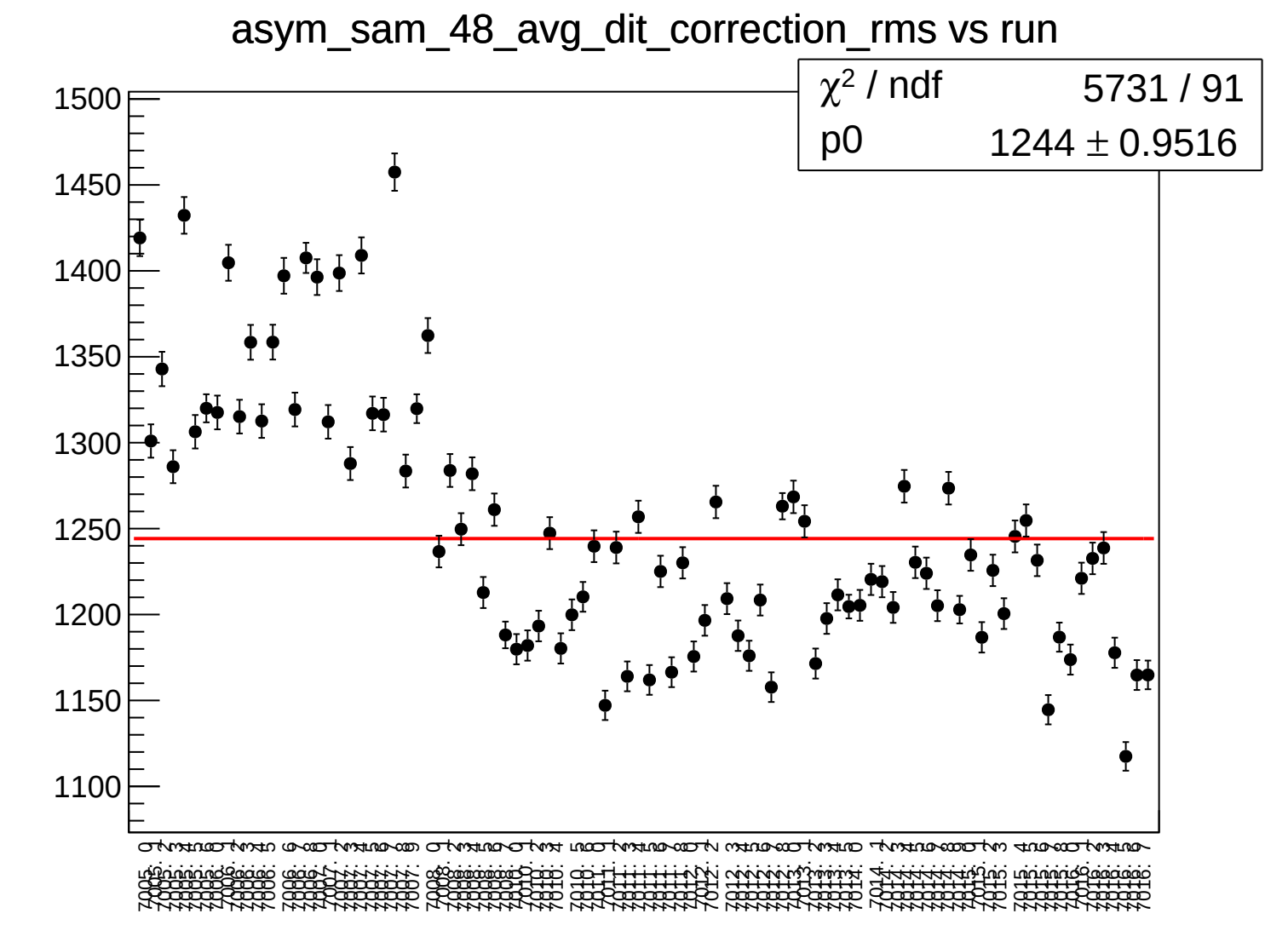

dit_asym_sam_48_avg_mean vs run
χ² / ndf 63.82 / 91
p0 −56.27 ± 166.3
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 302.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

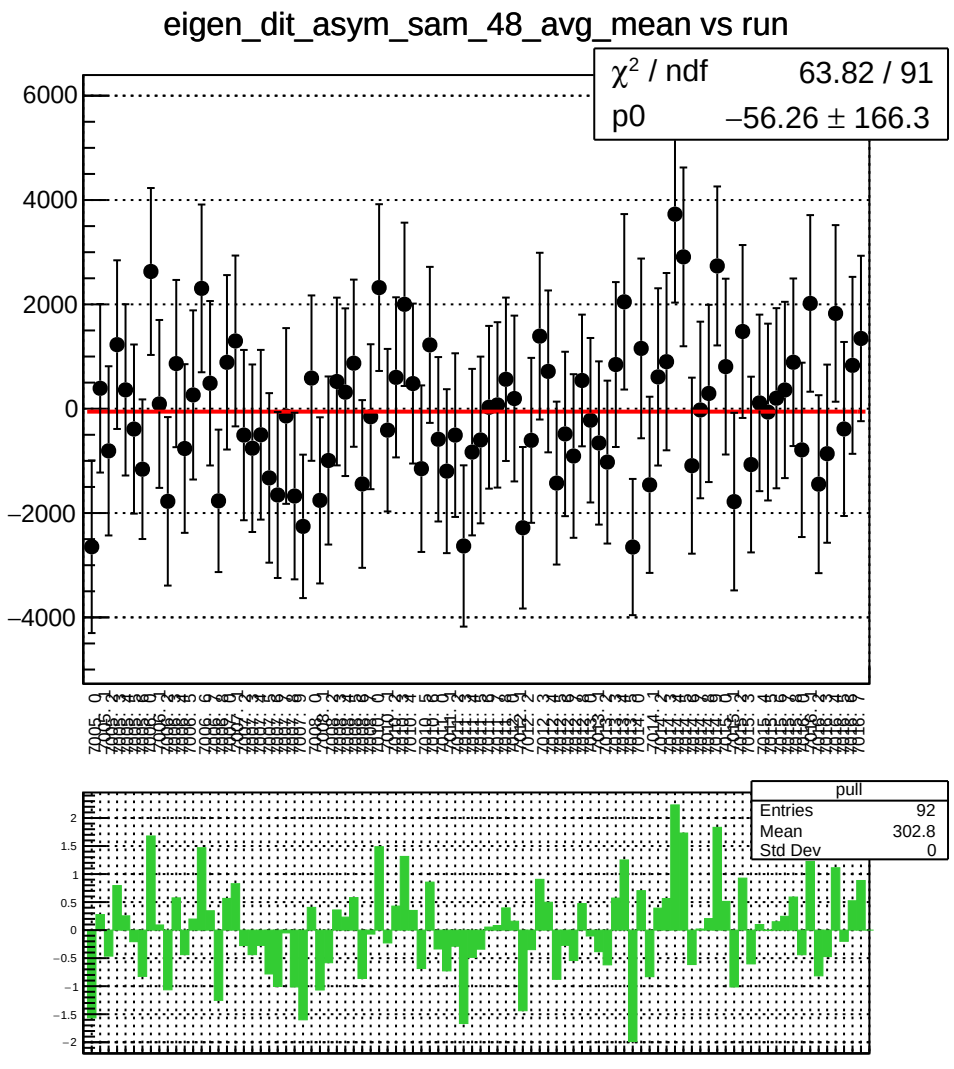

pull1D
Entries 92
Mean 0.01393
Std Dev 0.8328
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

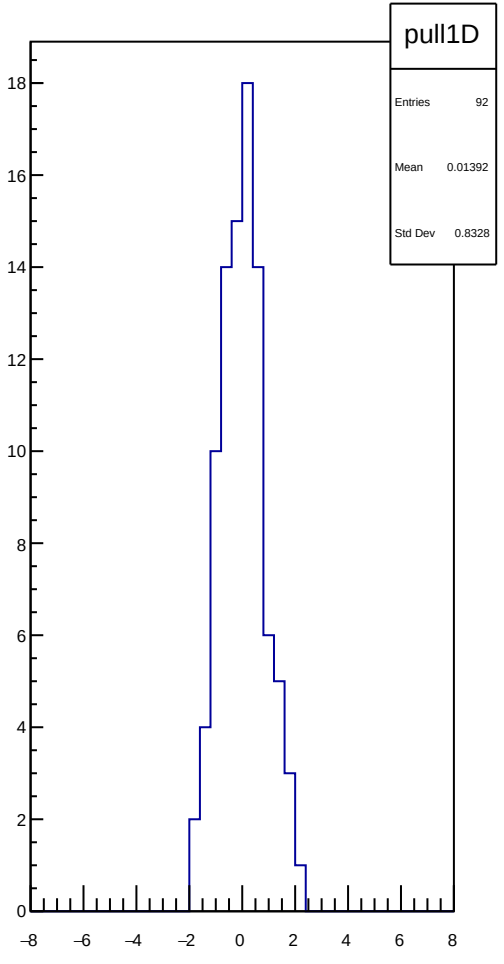

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1784 / 91
p0 153.9 ± 0.1176
165
160
155
150
145

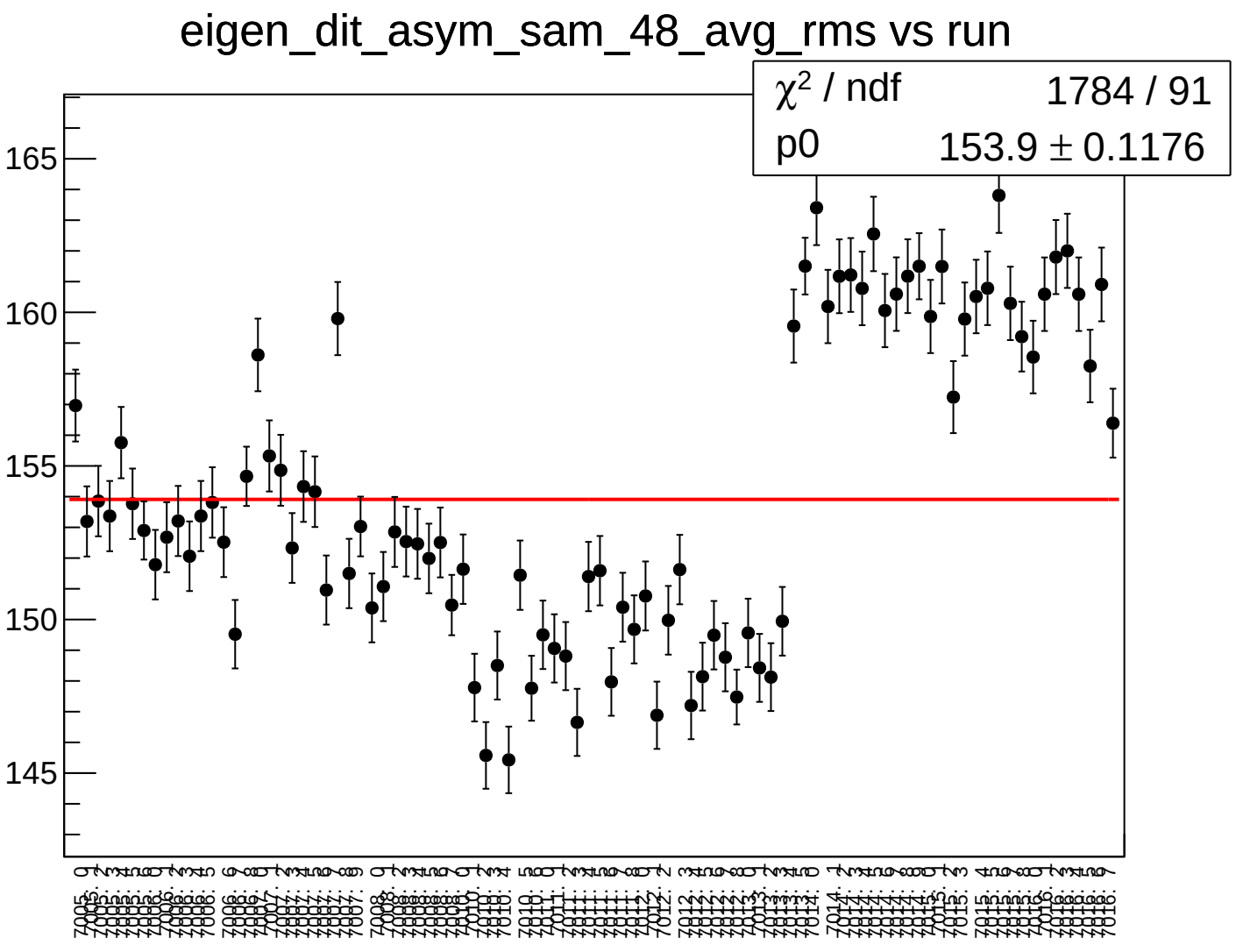

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 86.29 / 91
p0 −1444 ± 1346
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 27.03
Std Dev 78.76
2
1
0
−1
−2

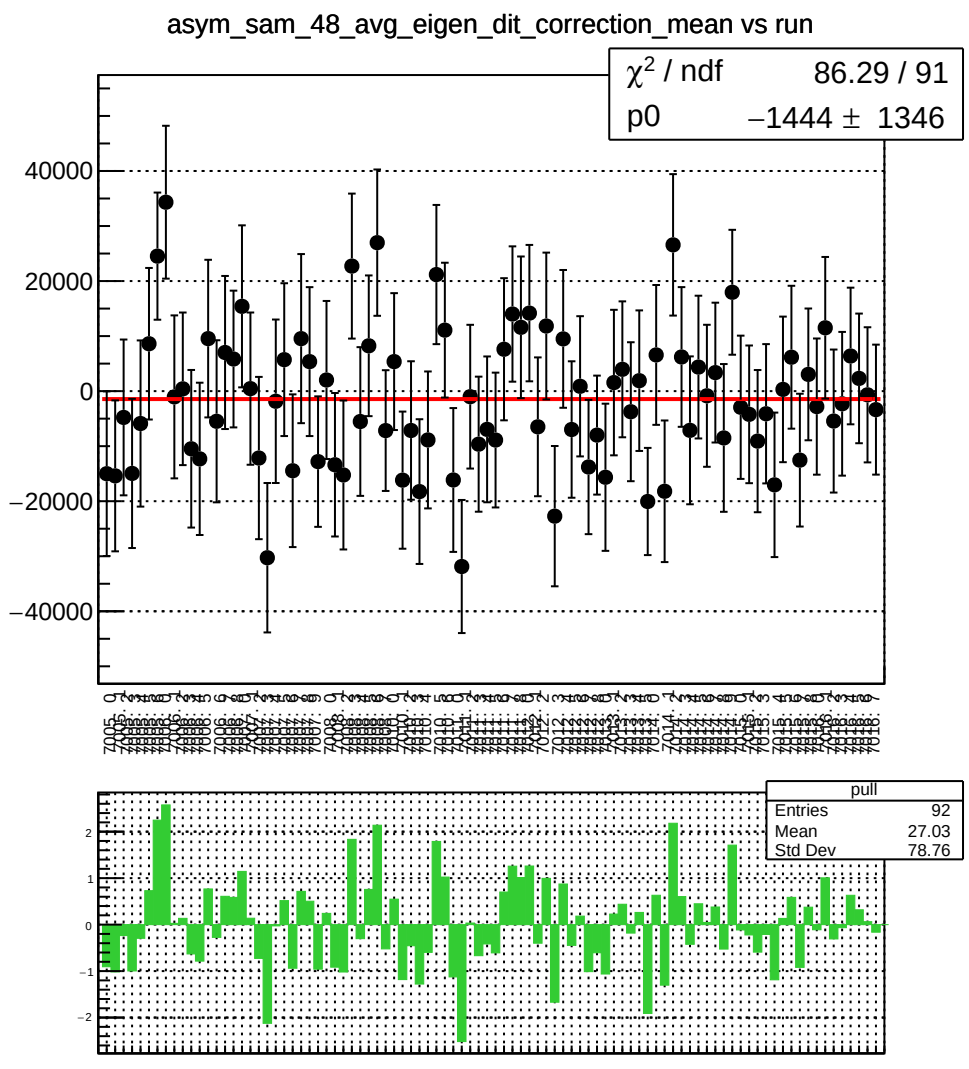

pull1D
Entries 92
Mean 0.004708
Std Dev 0.9685
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

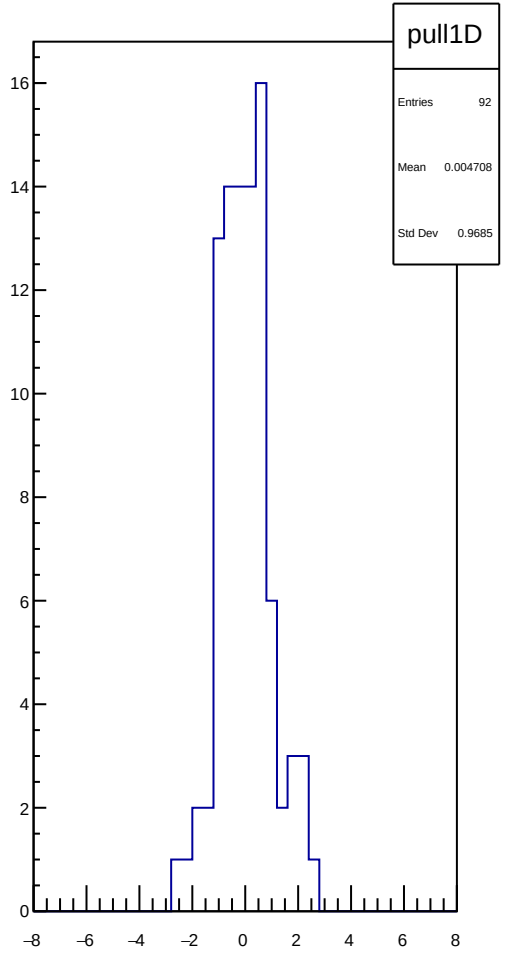

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 5731 / 91
p0 1244 ± 0.9516
1500
1450
1400
1350
1300
1250
1200
1150
1100

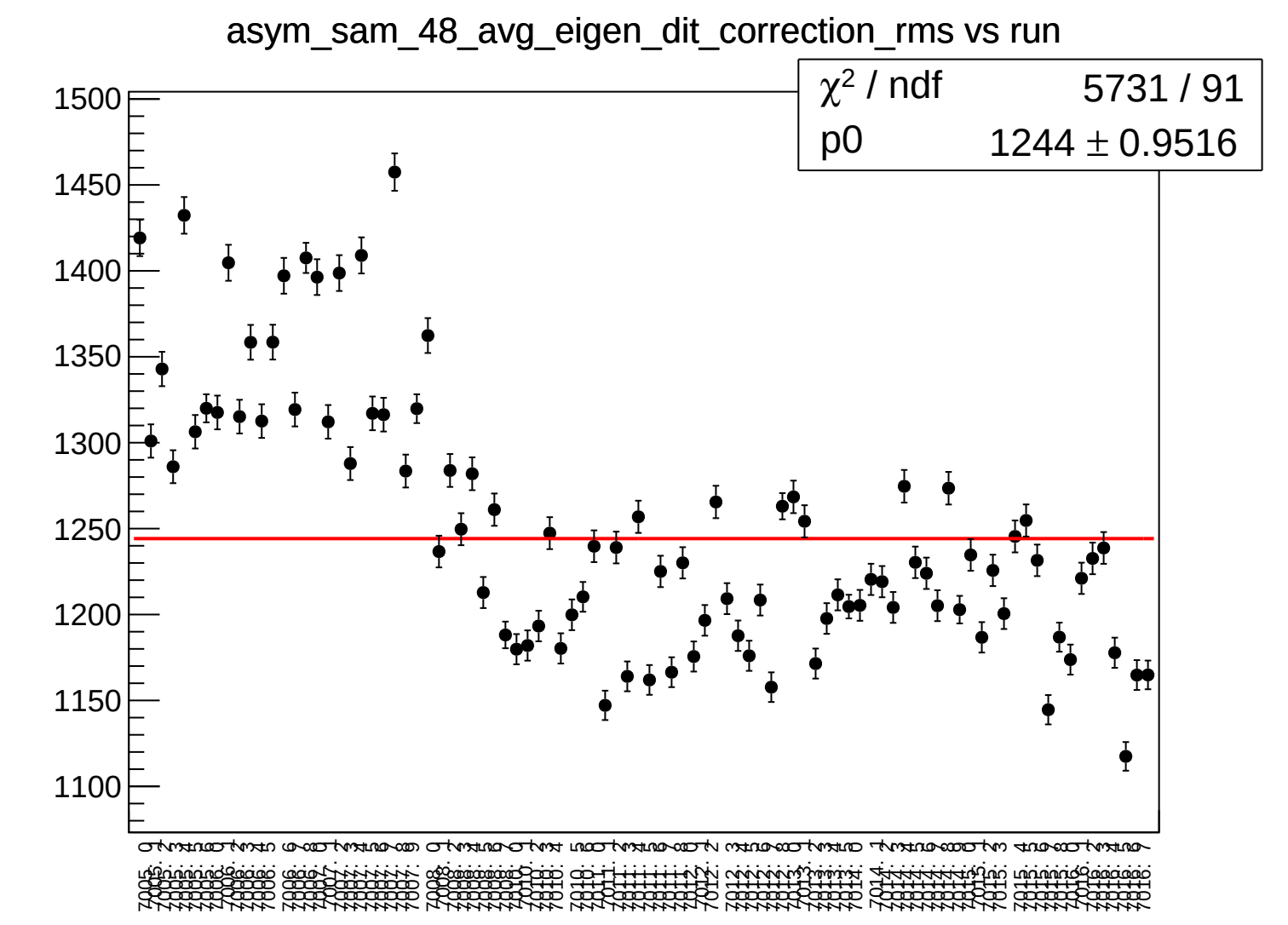

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 63.82 / 91
p0 −56.26 ± 166.3
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 302.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

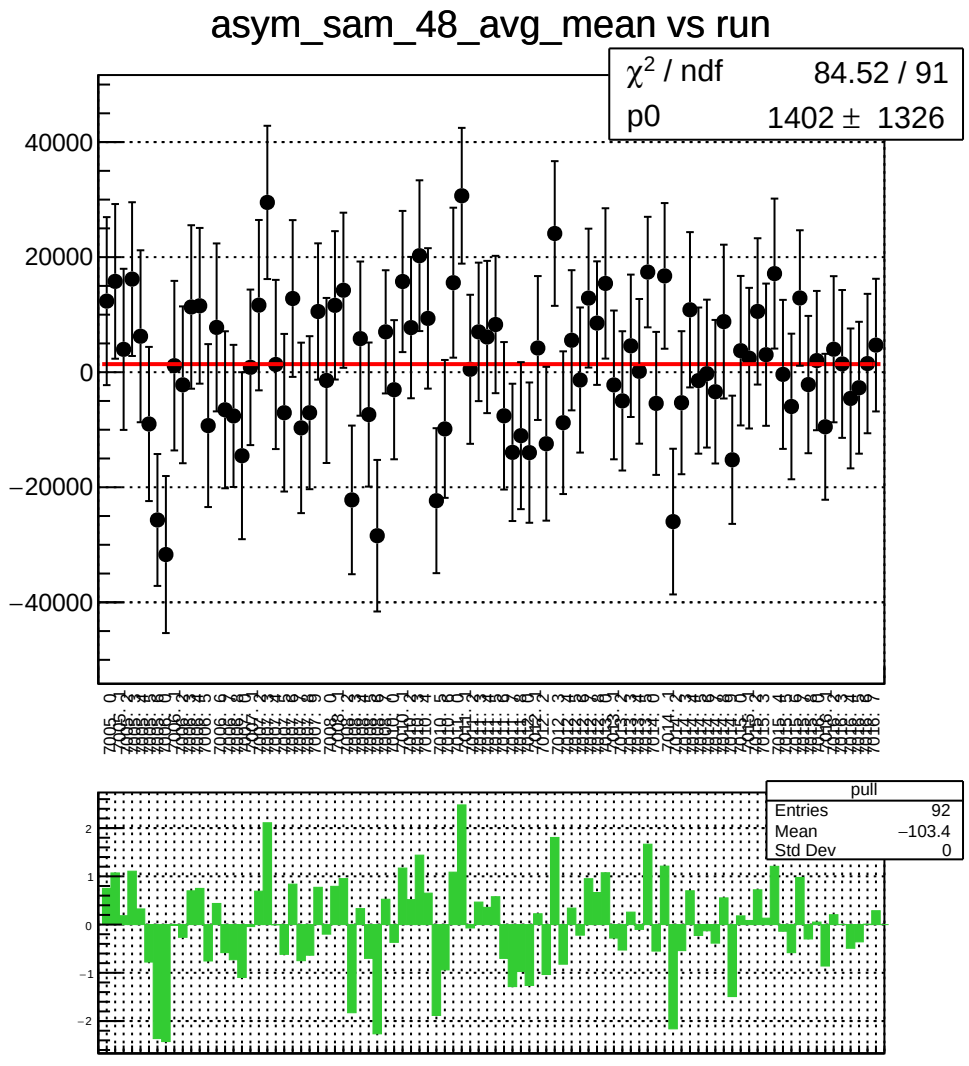

pull1D
Entries 92
Mean 0.01392
Std Dev 0.8328
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

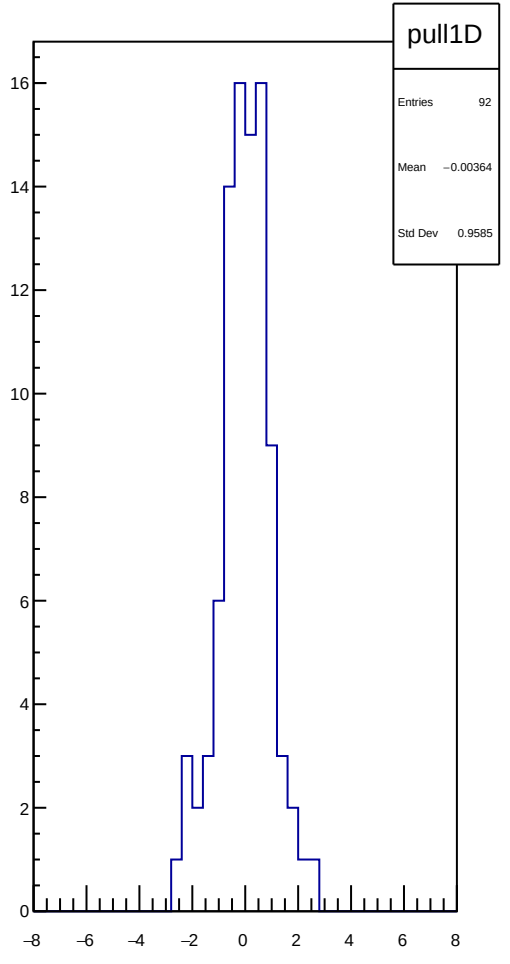

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1784 / 91
p0 153.9 ± 0.1176
165
160
155
150
145

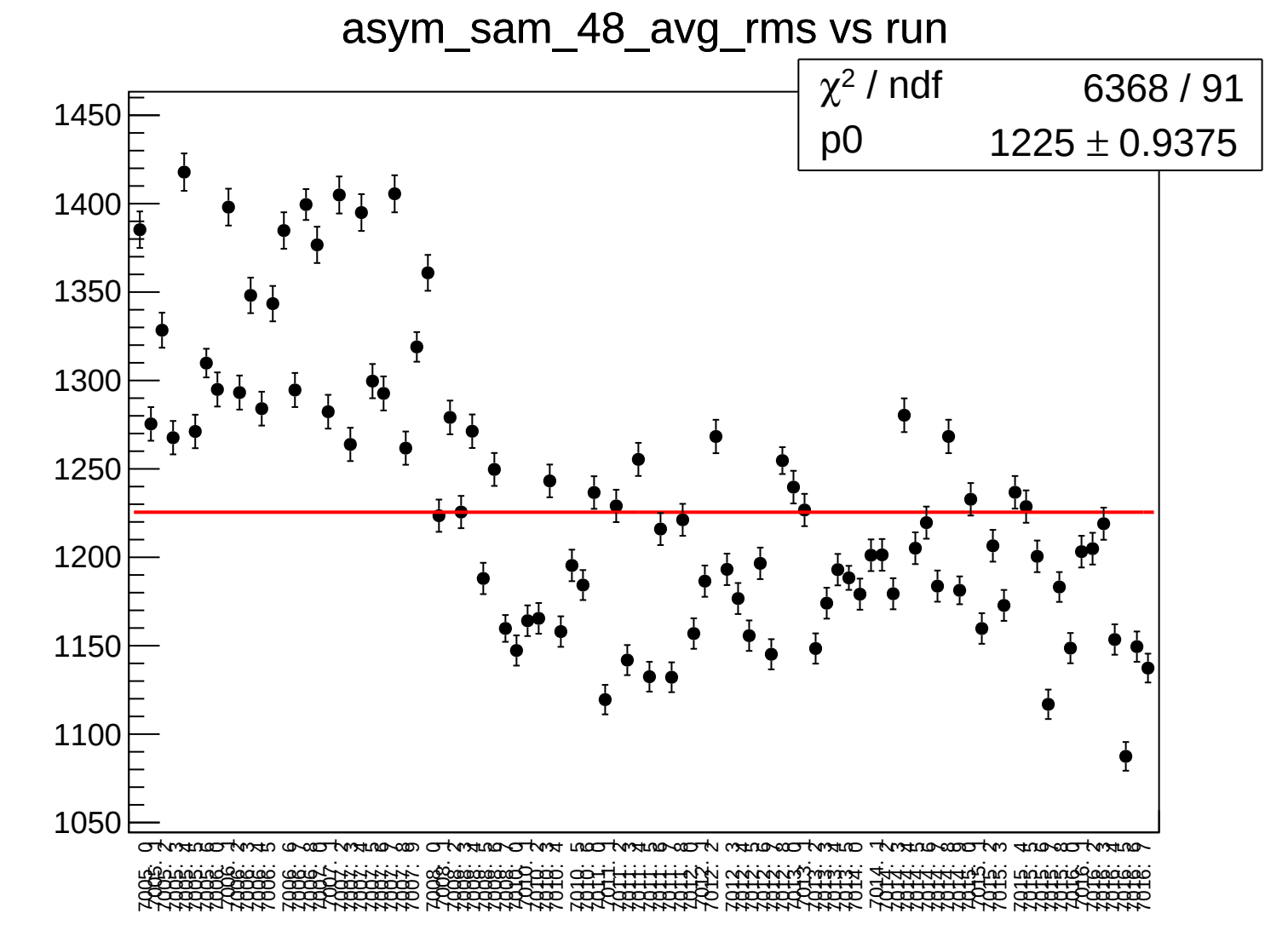

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.29 / 91
p0 −1444 ± 1346
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 27.03
Std Dev 78.76
2
1
0
−1
−2

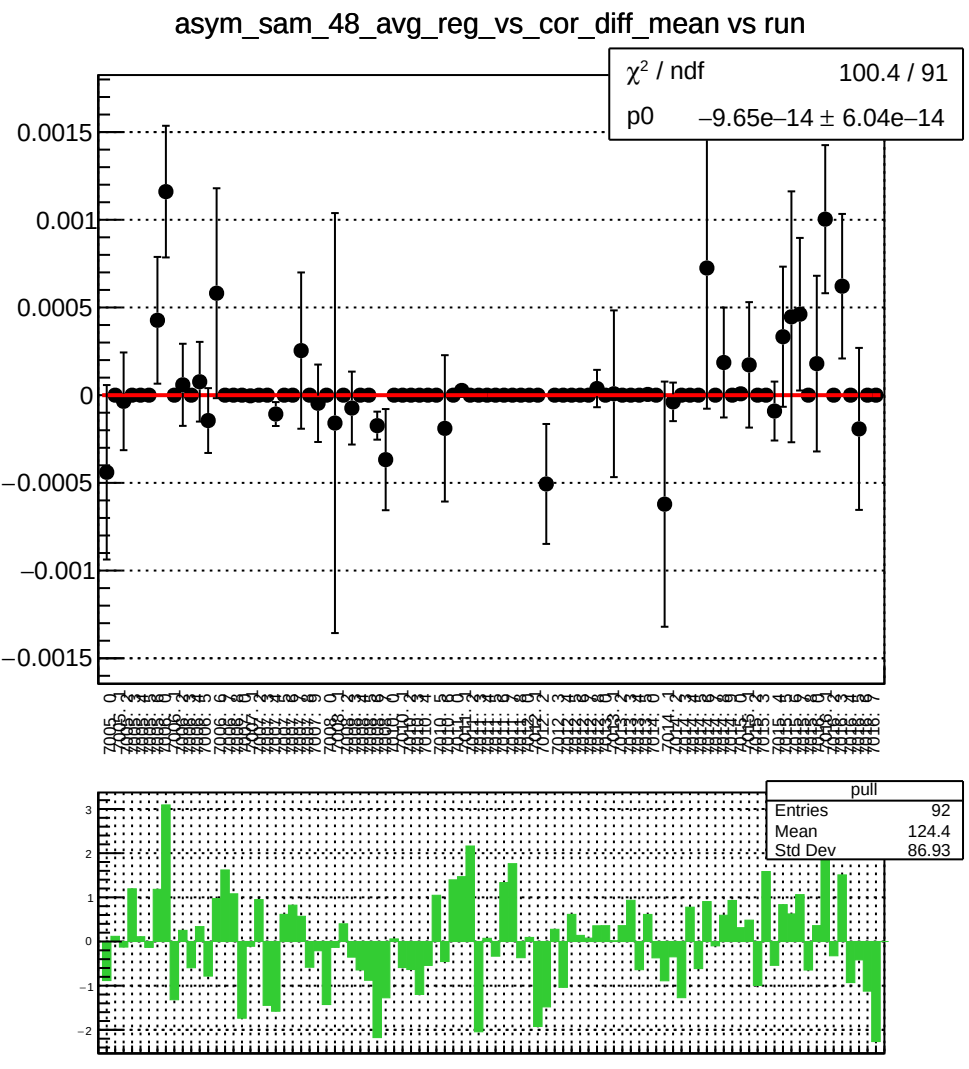

pull1D
Entries 92
Mean 0.004708
Std Dev 0.9685
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

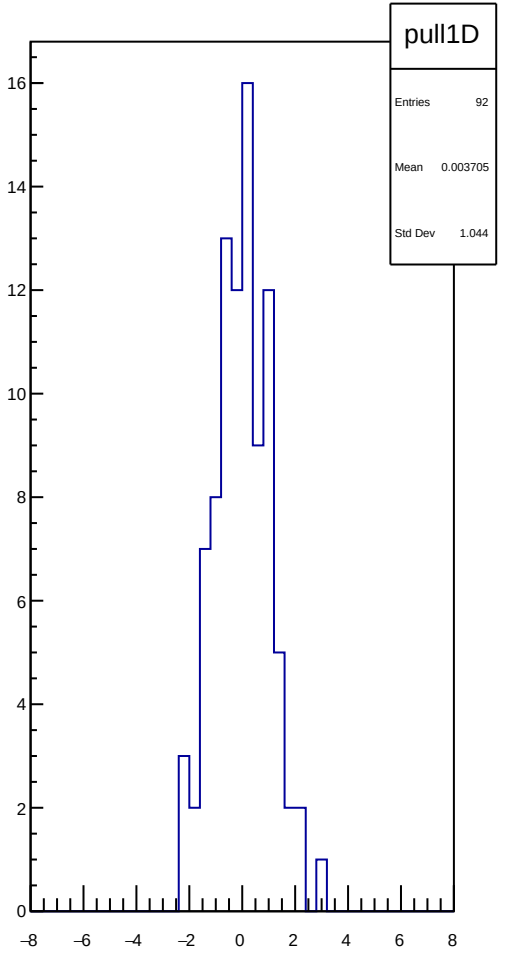

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 5731 / 91
p0 1244 ± 0.9516
1500
1450
1400
1350
1300
1250
1200
1150
1100

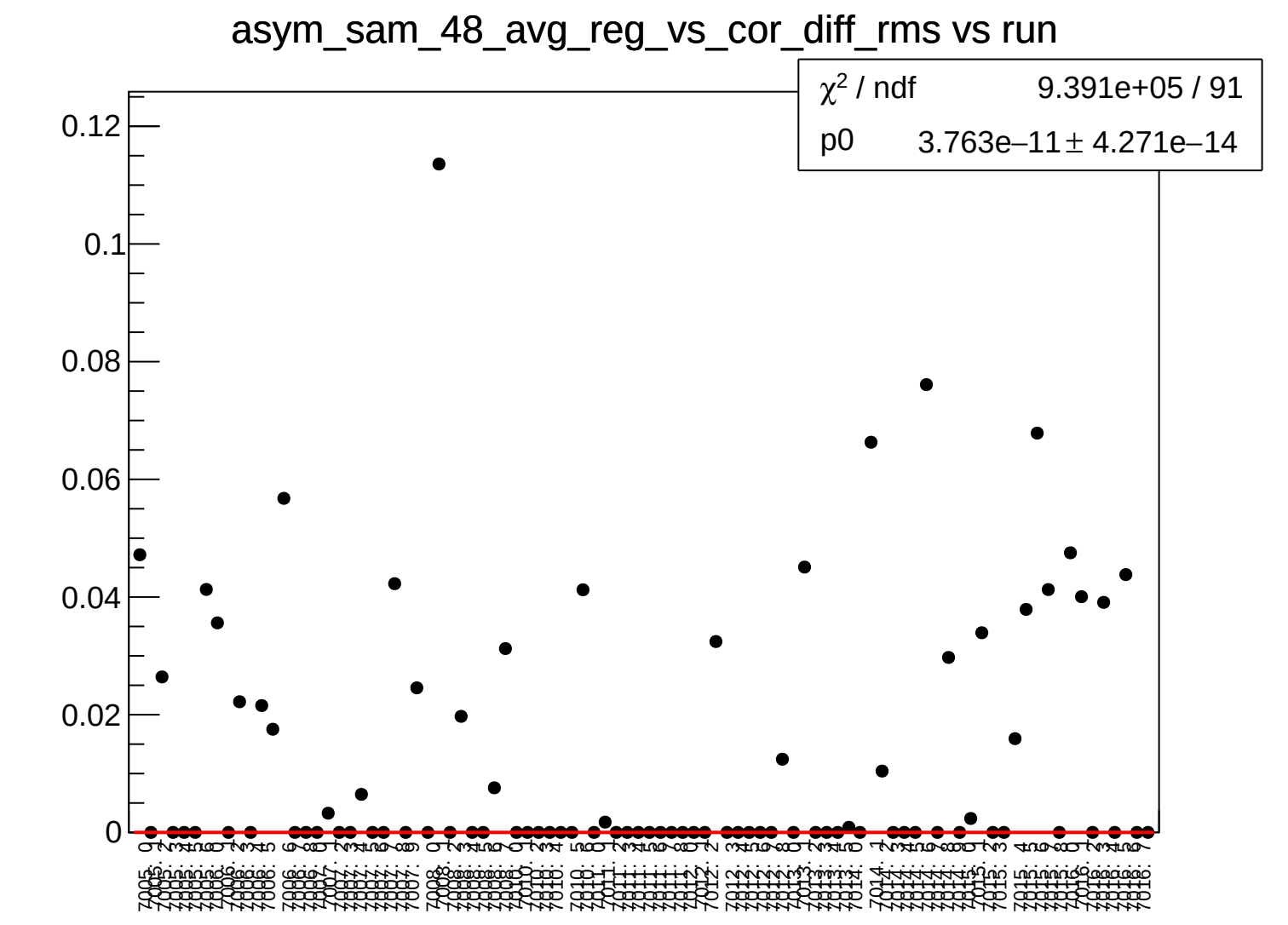

asym_sam_48_avg_mean vs run
χ² / ndf 84.52 / 91
p0 1402 ± 1326
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −103.4
Std Dev 0
2
1
0
−1
−2

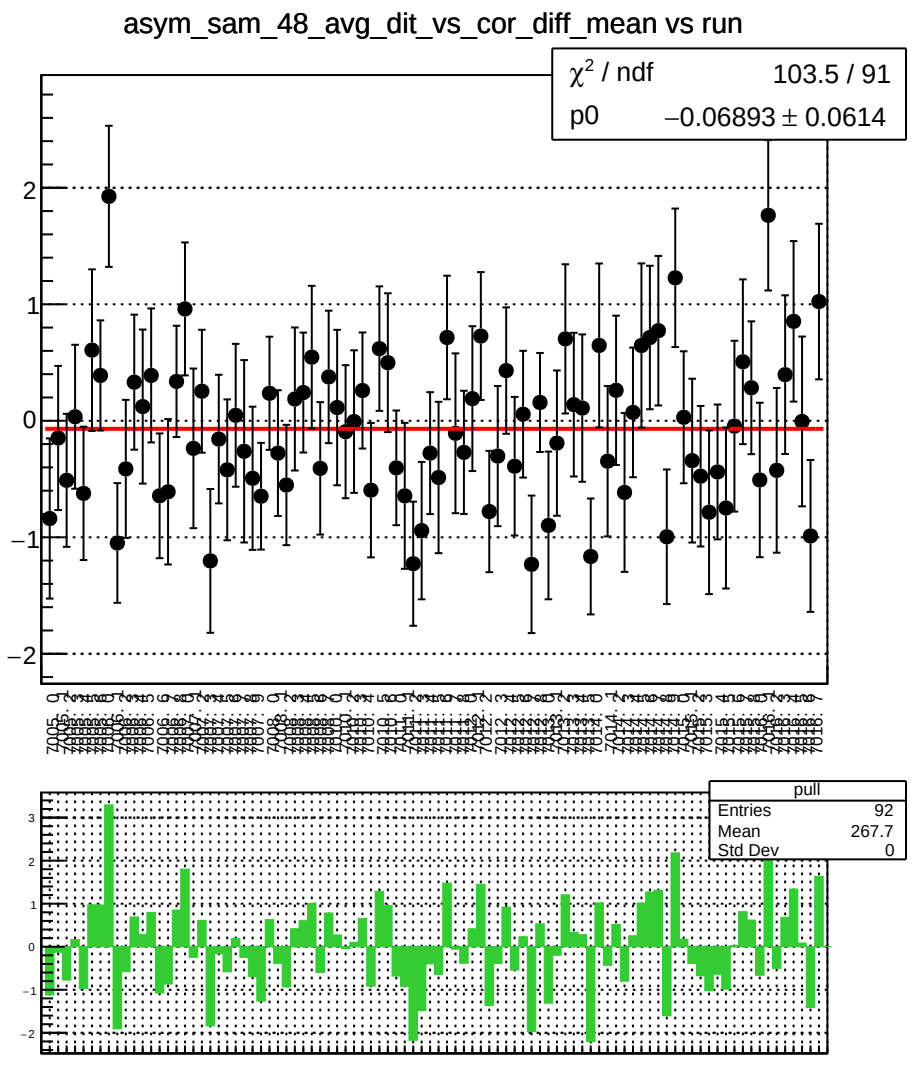

pull1D
Entries 92
Mean −0.00364
Std Dev 0.9585
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

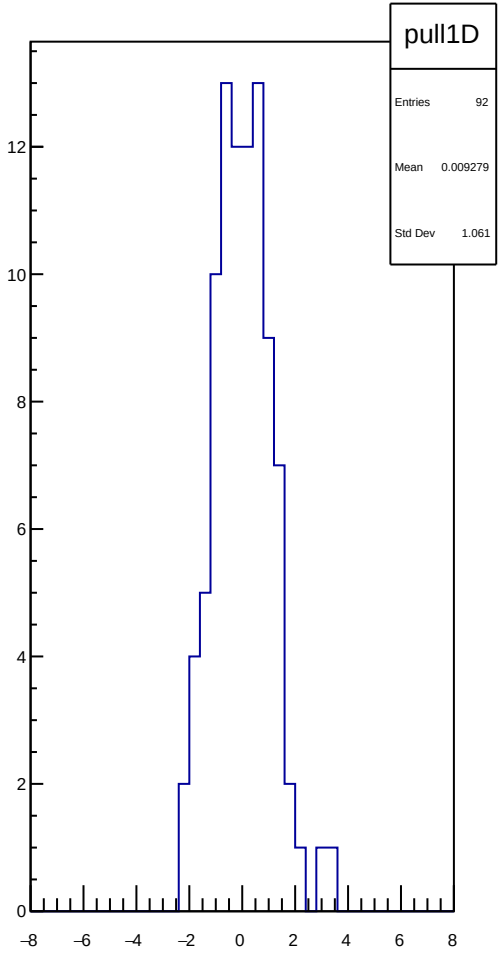

asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 6368 / 91
p0 1225 ± 0.9375
1450
1400
1350
1300
1250
1200
1150
1100
1050

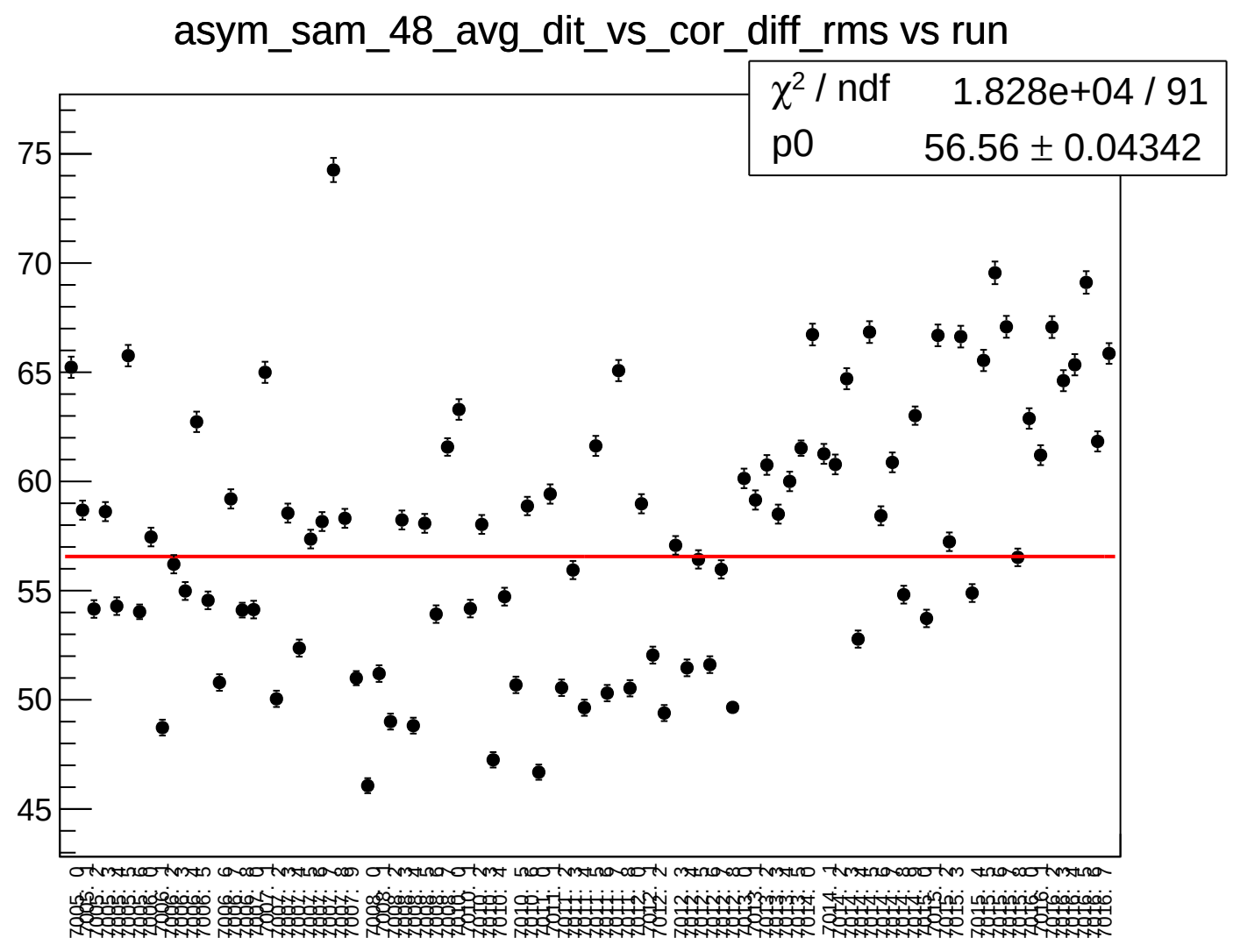

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 91
p0 −9.65e−14 ± 6.04e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 92
Mean 124.4
Std Dev 86.93
3
2
1
0
−1
−2


pull1D
Entries 92
Mean 0.003705
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

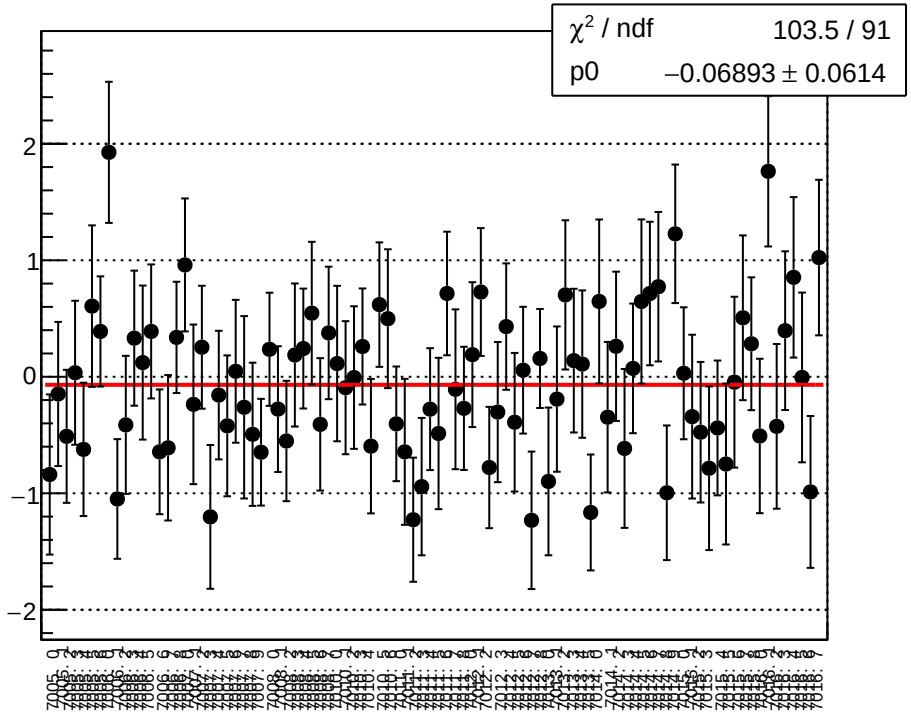

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.391e+05 / 91
p0 3.763e−11 ± 4.271e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

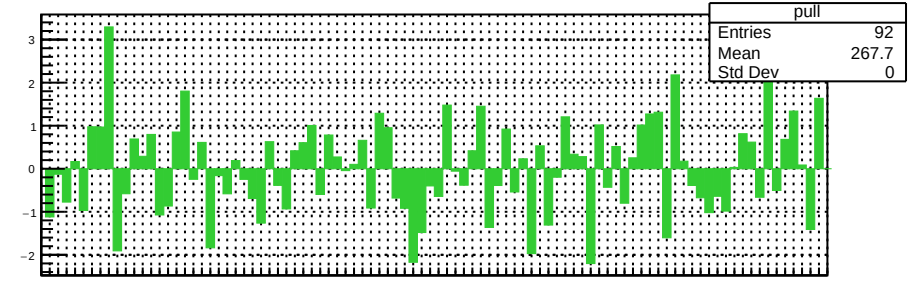

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 91
p0 −0.06893 ± 0.0614
pull
Entries 92
Mean 267.7
Std Dev 0

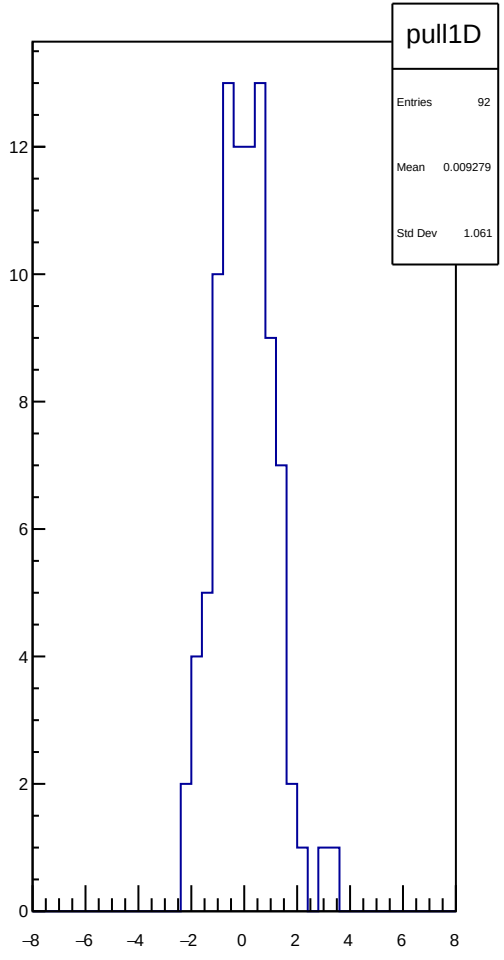

pull1D
Entries 92
Mean 0.009279
Std Dev 1.061

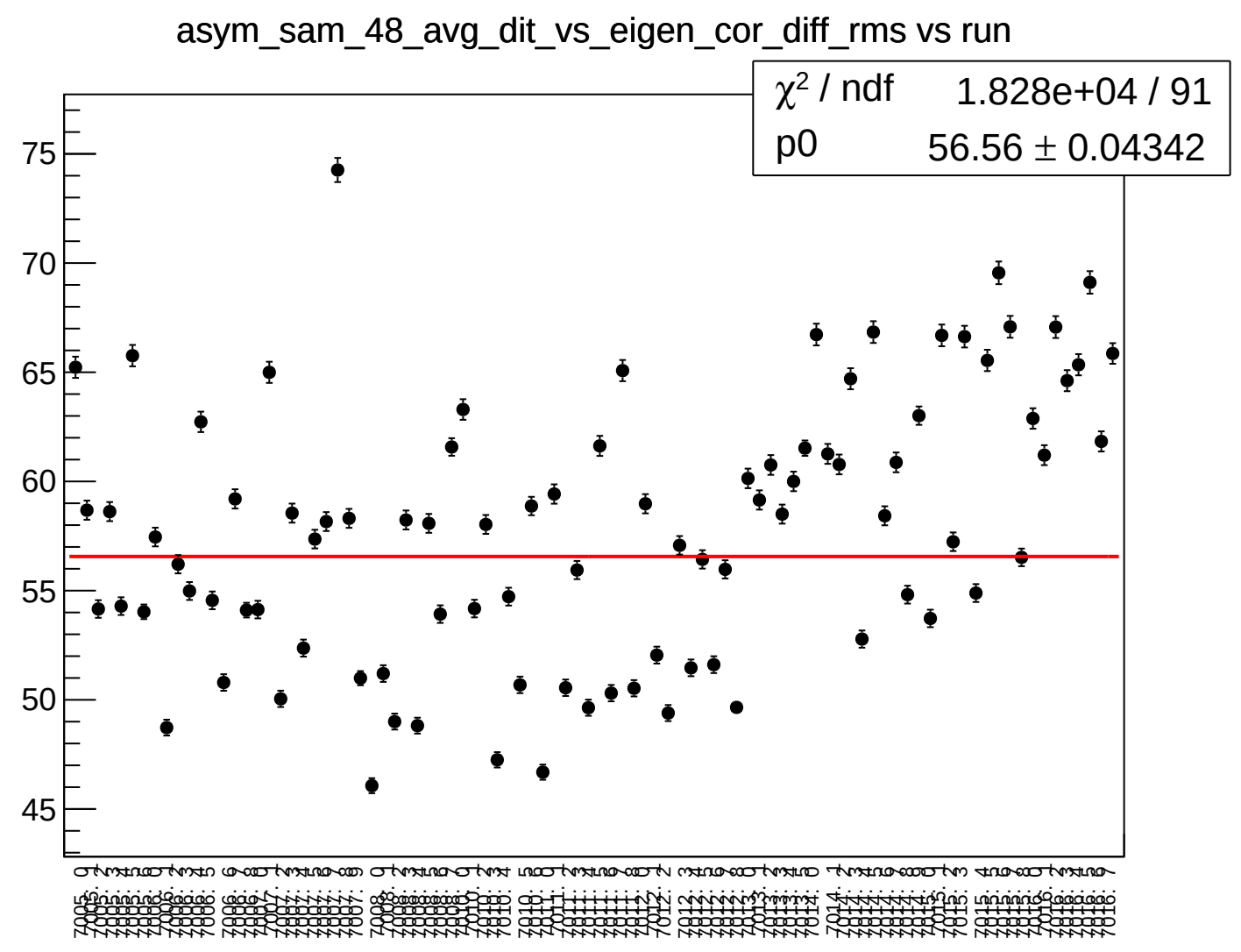

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.828e+04 / 91
p0 56.56 ± 0.04342
75
70
65
60
55
50
45

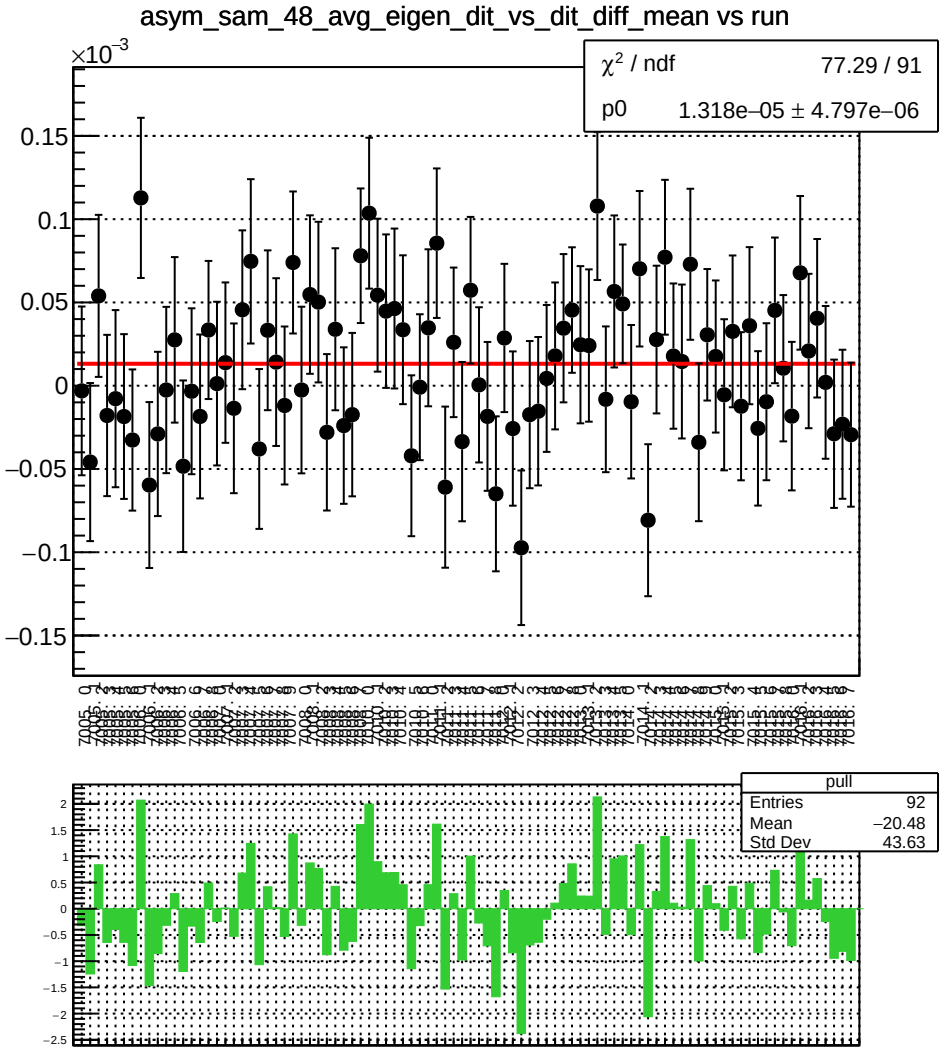
asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run

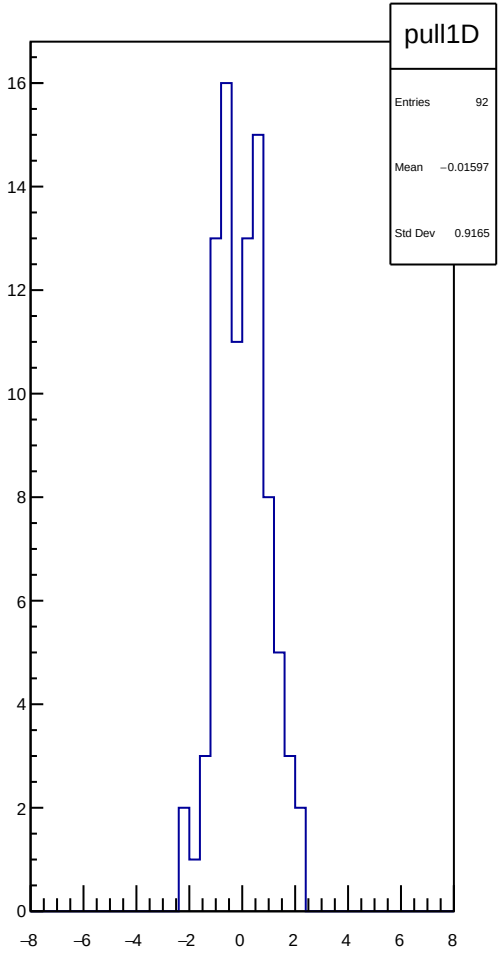


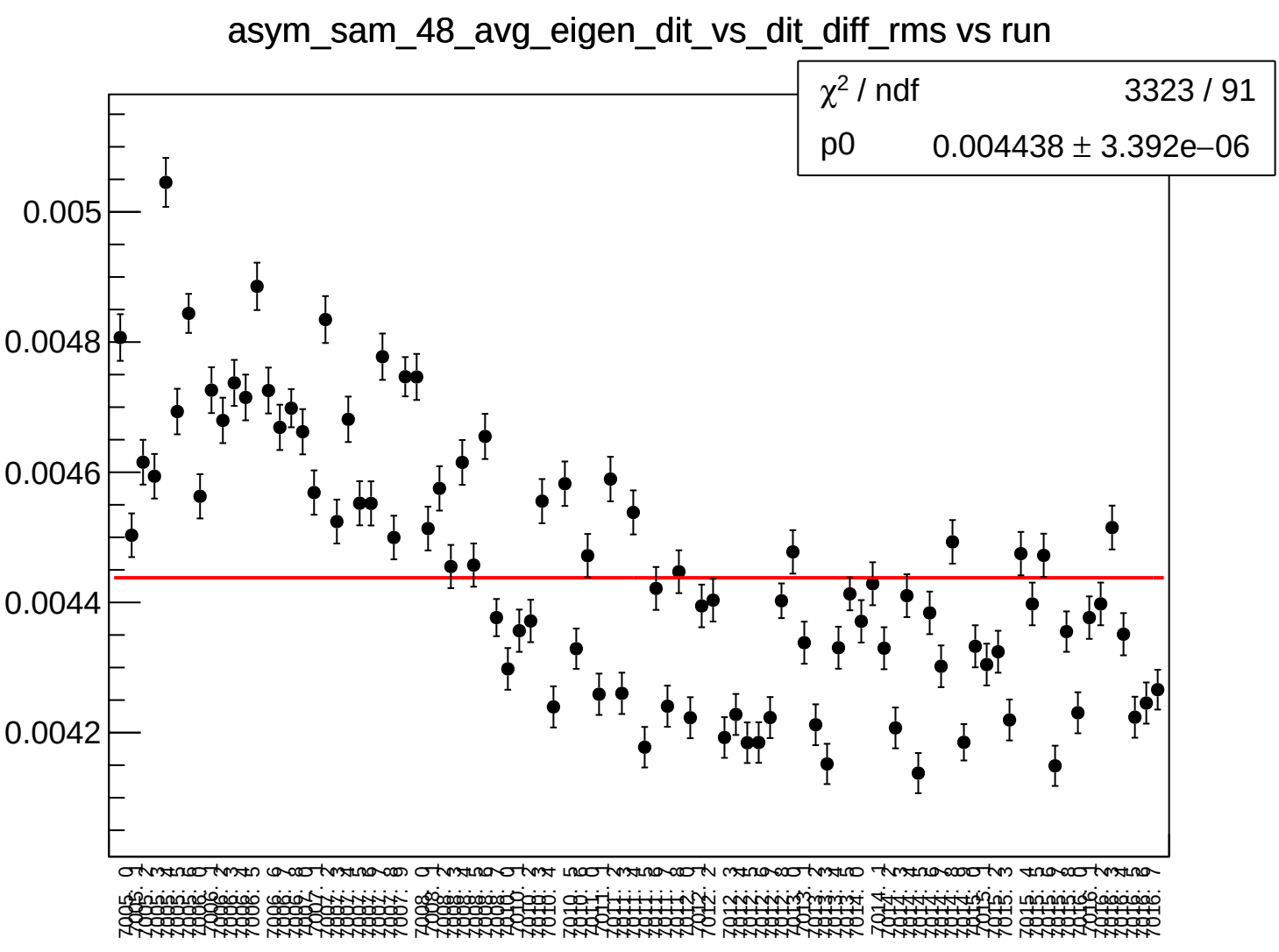



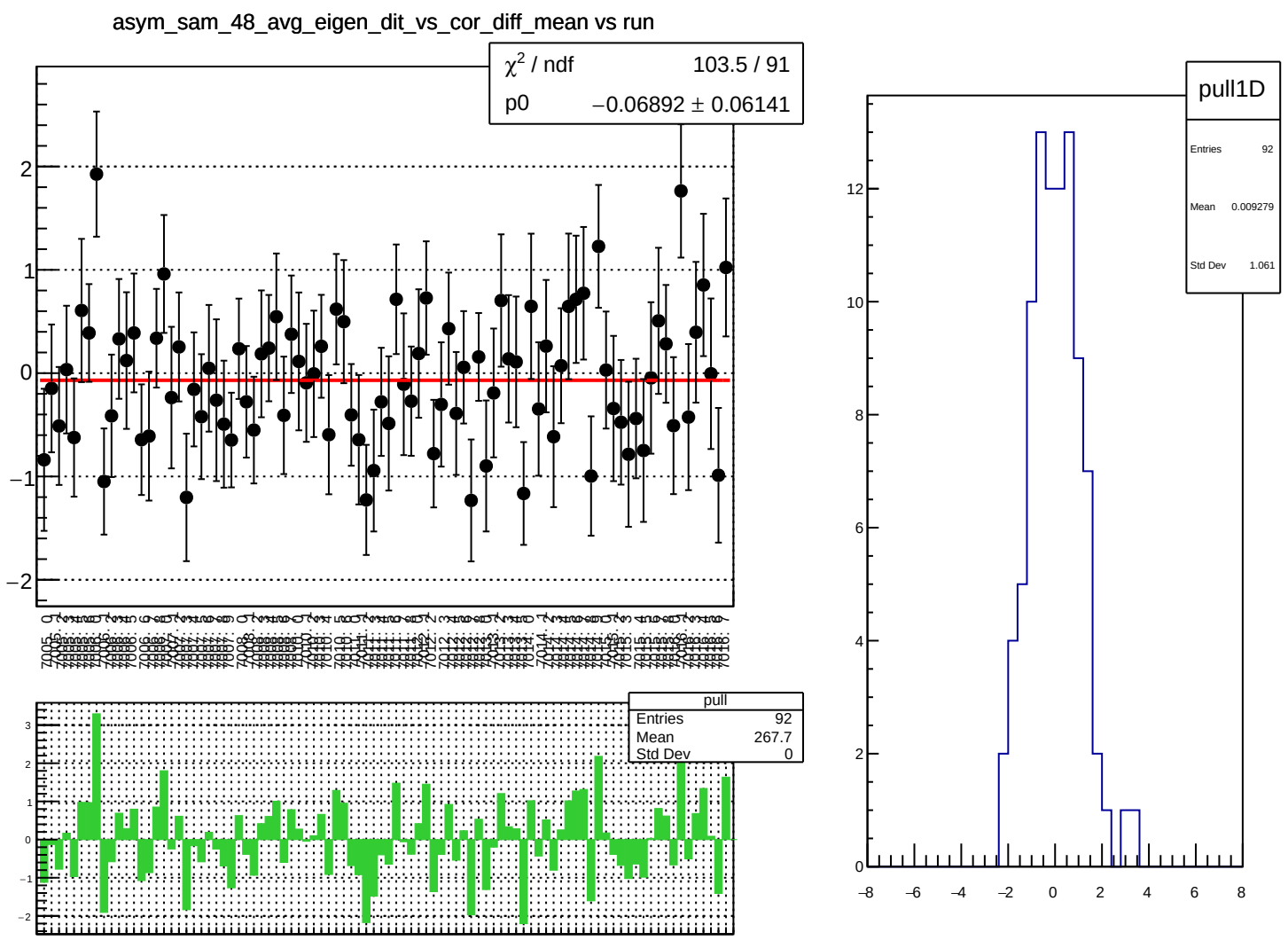



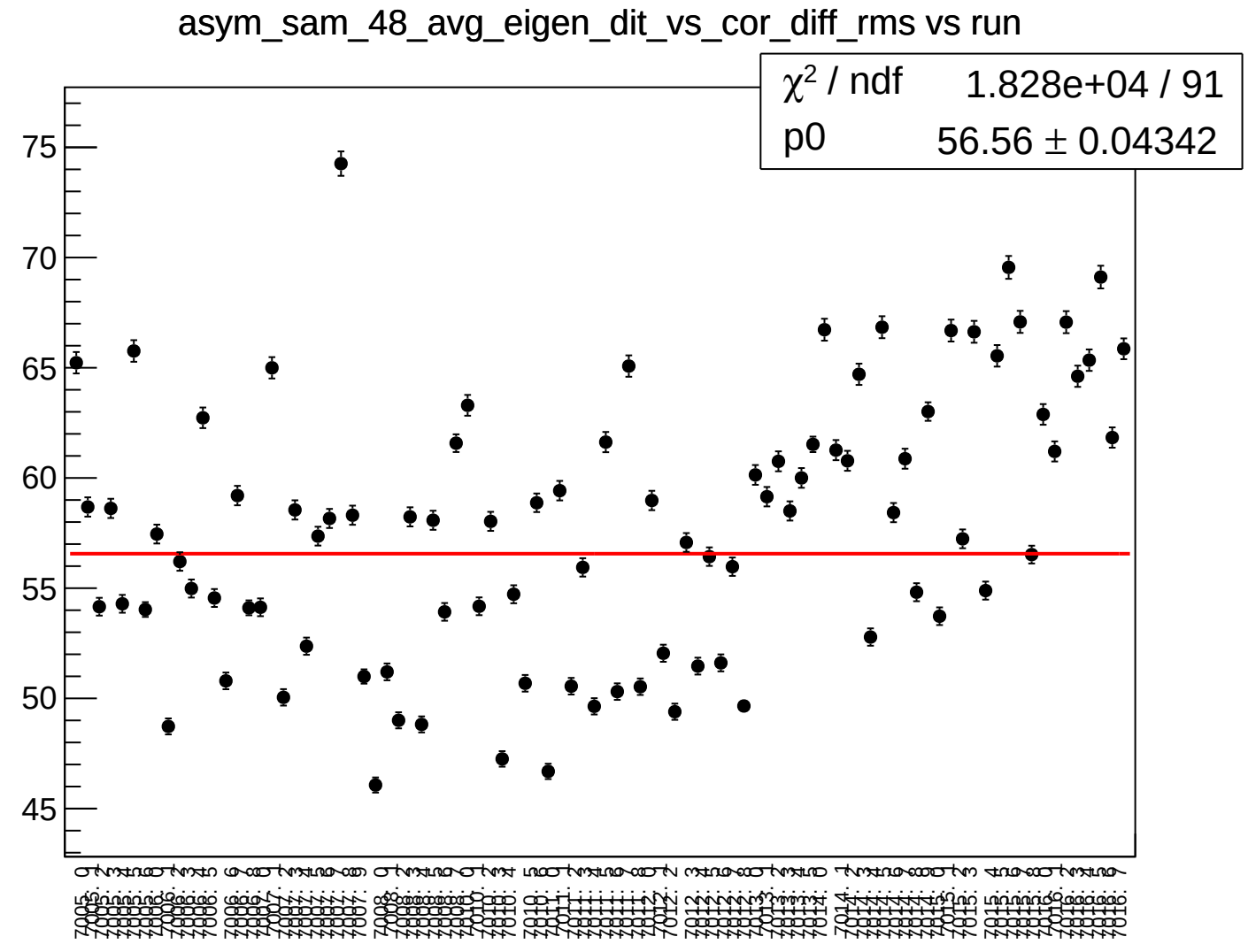

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.828e+04 / 91
p0 56.56 ± 0.04342
75
70
65
60
55
50
45

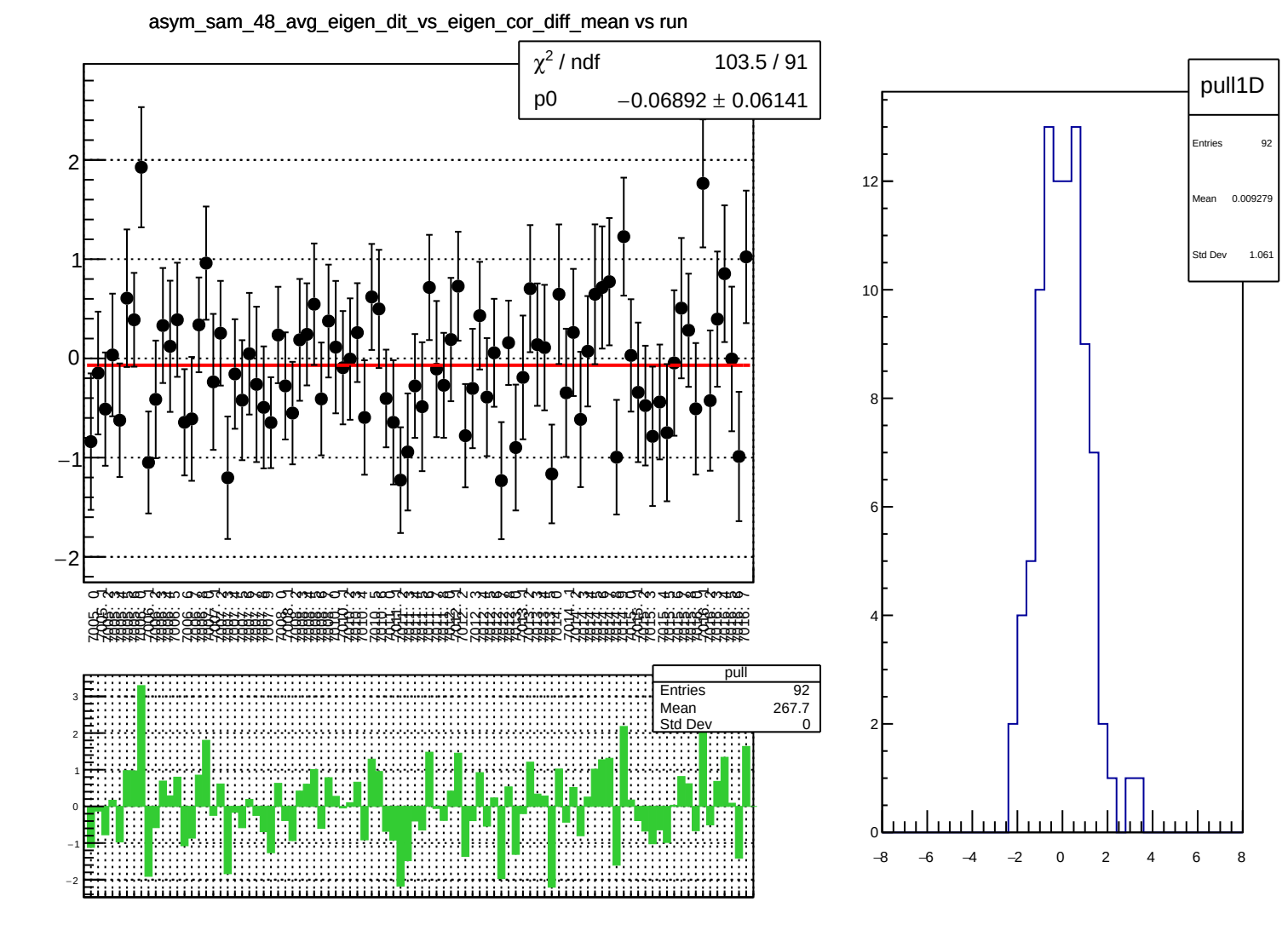

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.29 / 91
p0 1.318e−05 ± 4.797e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −20.48
Std Dev 43.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

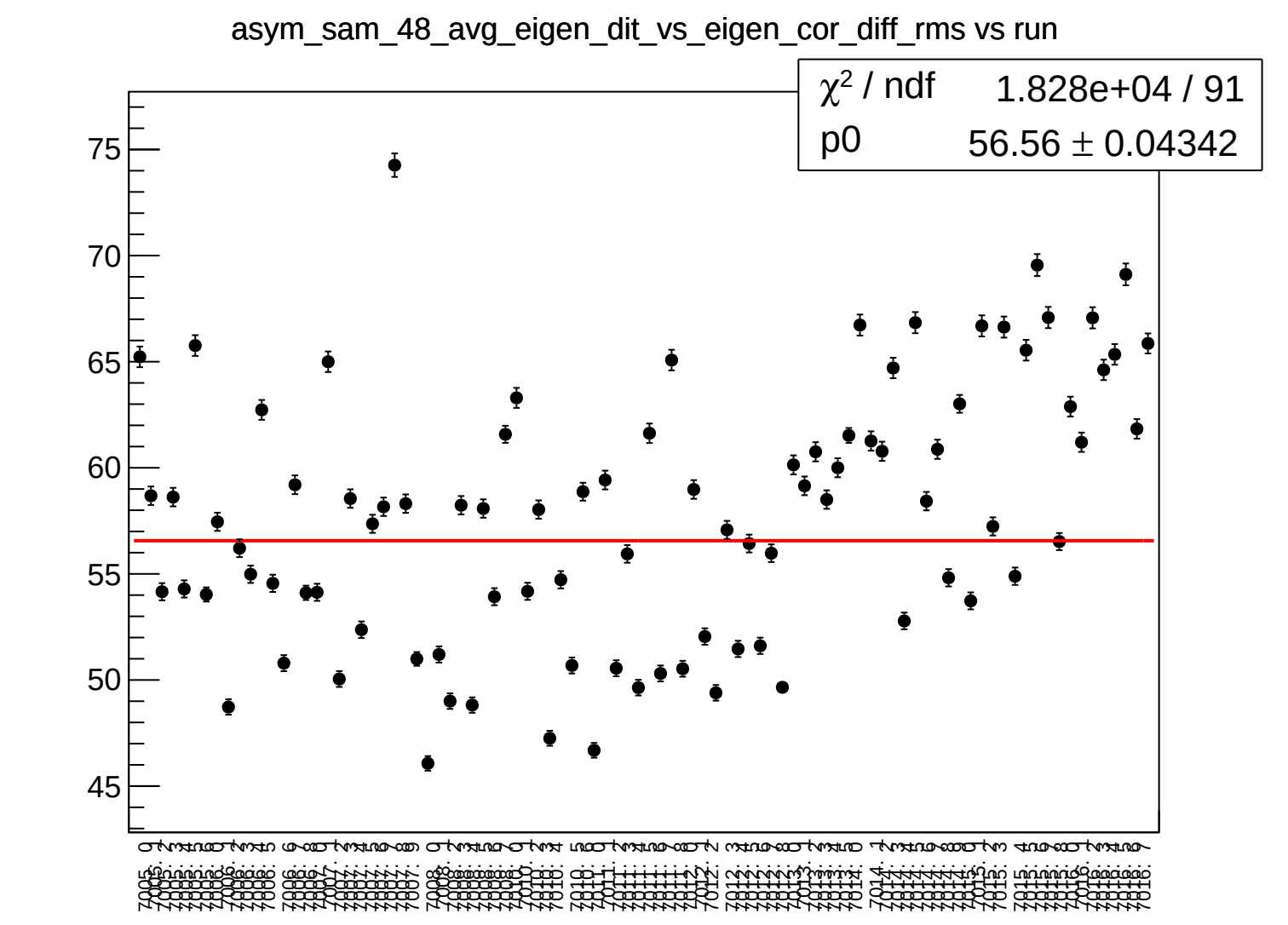

pull1D
Entries 92
Mean −0.01597
Std Dev 0.9165
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

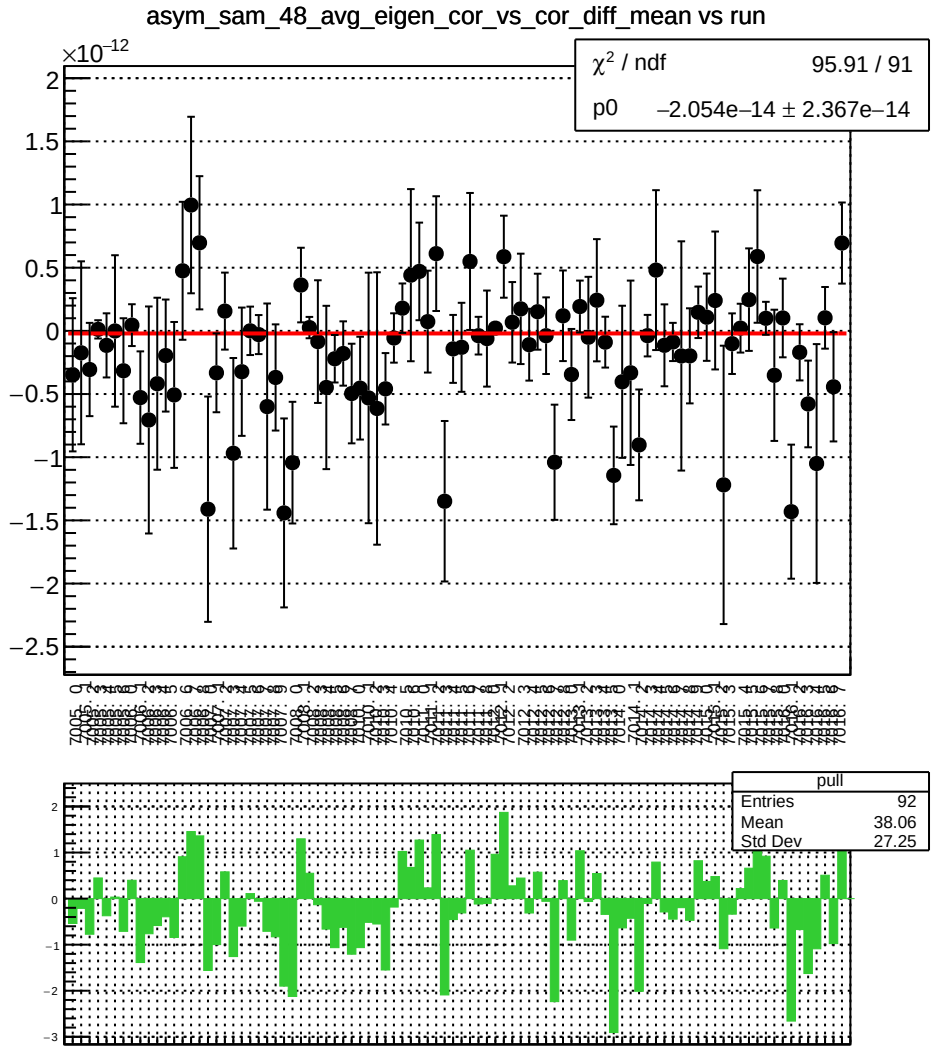

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3323 / 91
p0 0.004438 ± 3.392e−06
0.005
0.0048
0.0046
0.0044
0.0042

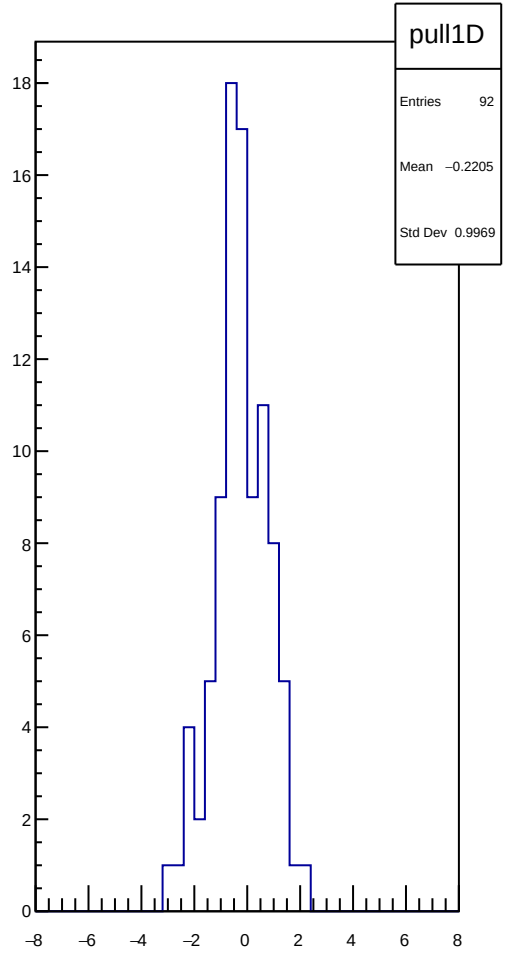

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 91
p0 −0.06892 ± 0.06141
pull
Entries 92
Mean 267.7
Std Dev 0
pull1D
Entries 92
Mean 0.009279
Std Dev 1.061

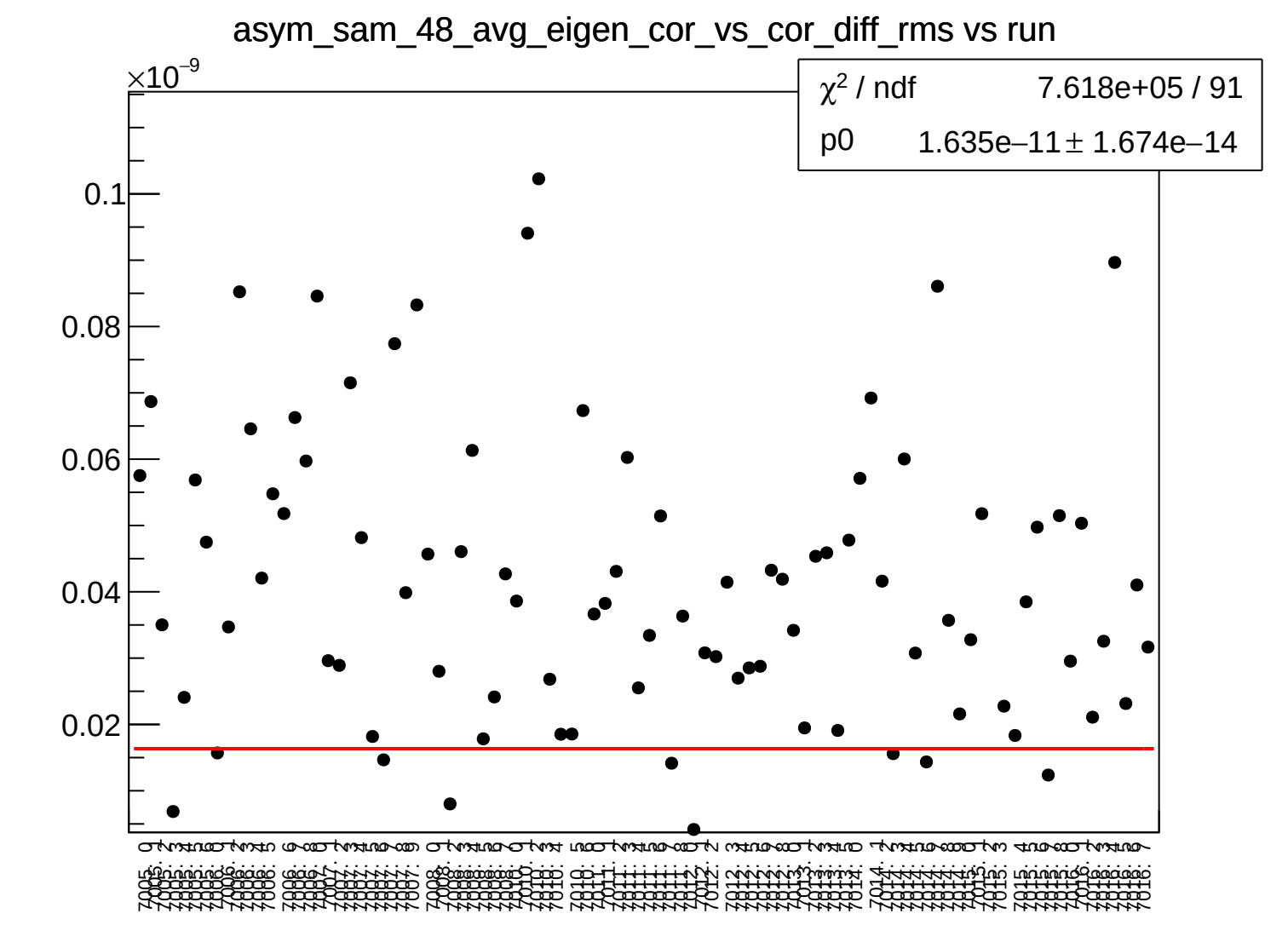

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.828e+04 / 91
p0 56.56 ± 0.04342
75
70
65
60
55
50
45

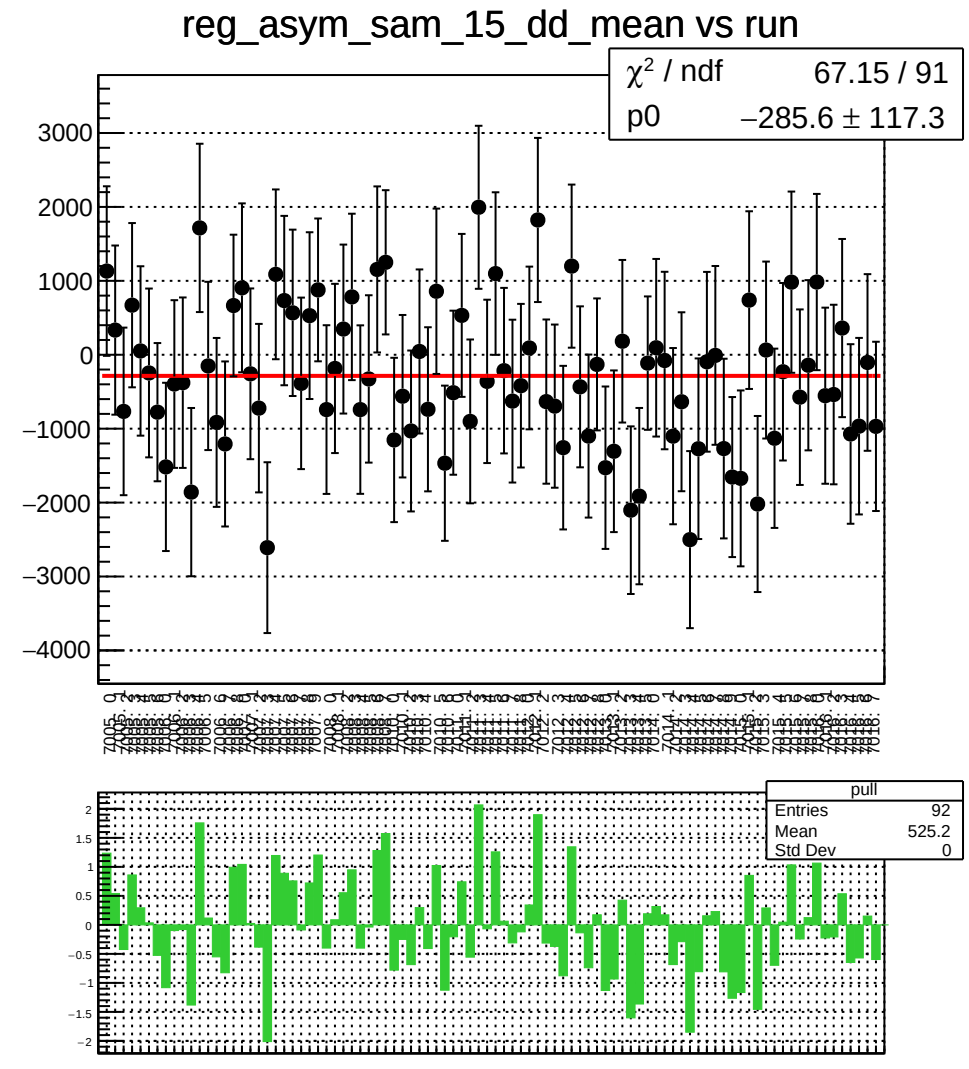

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.5 / 91
p0 −0.06892 ± 0.06141
pull
Entries 92
Mean 267.7
Std Dev 0
pull1D
Entries 92
Mean 0.009279
Std Dev 1.061

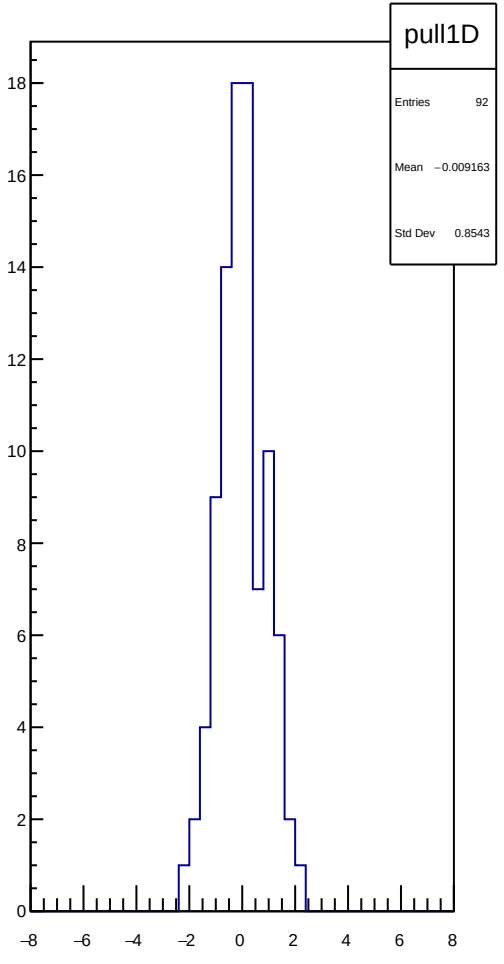

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.828e+04 / 91
p0 56.56 ± 0.04342
75
70
65
60
55
50
45

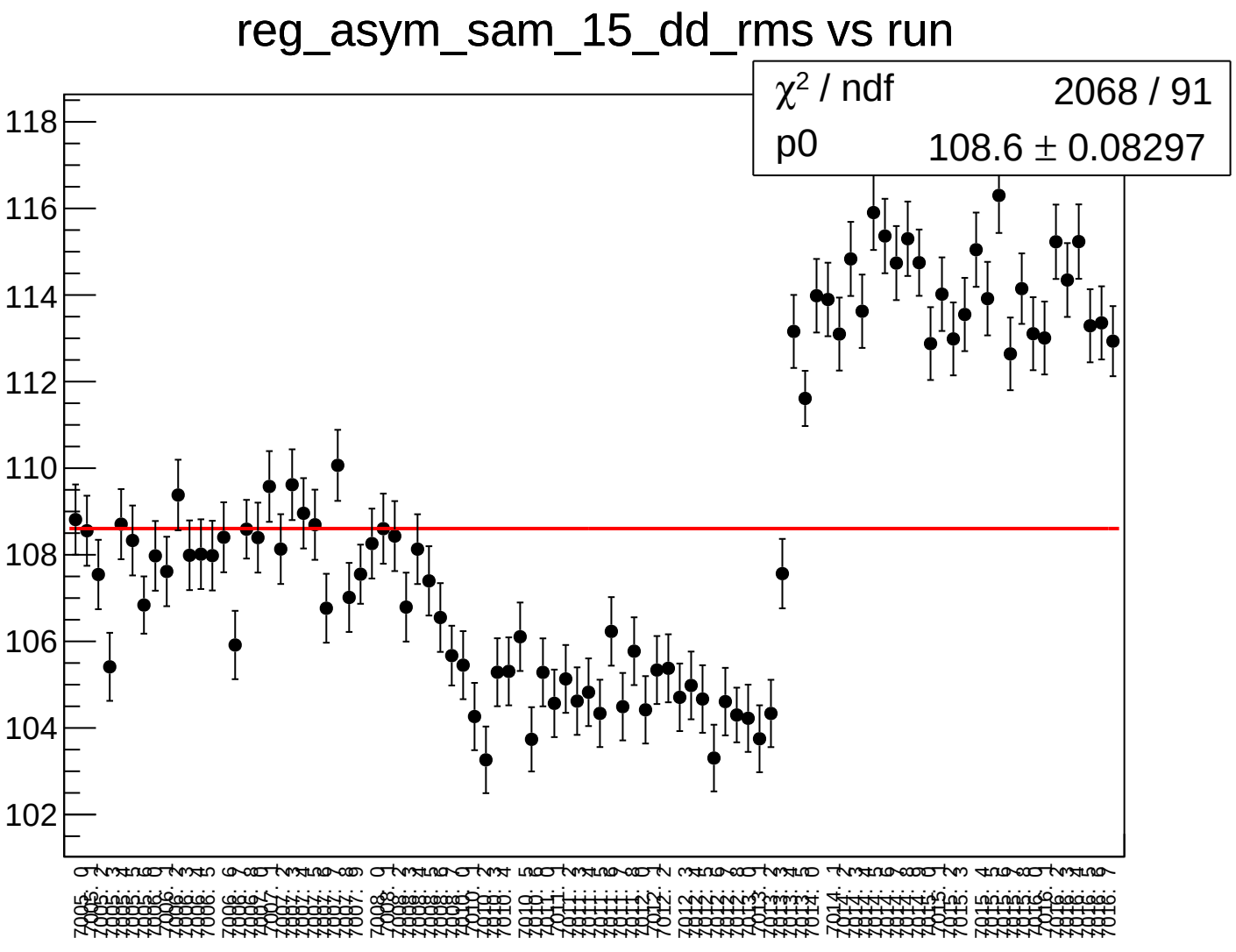

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 95.91 / 91
p0 −2.054e−14 ± 2.367e−14
pull
Entries 92
Mean 38.06
Std Dev 27.25

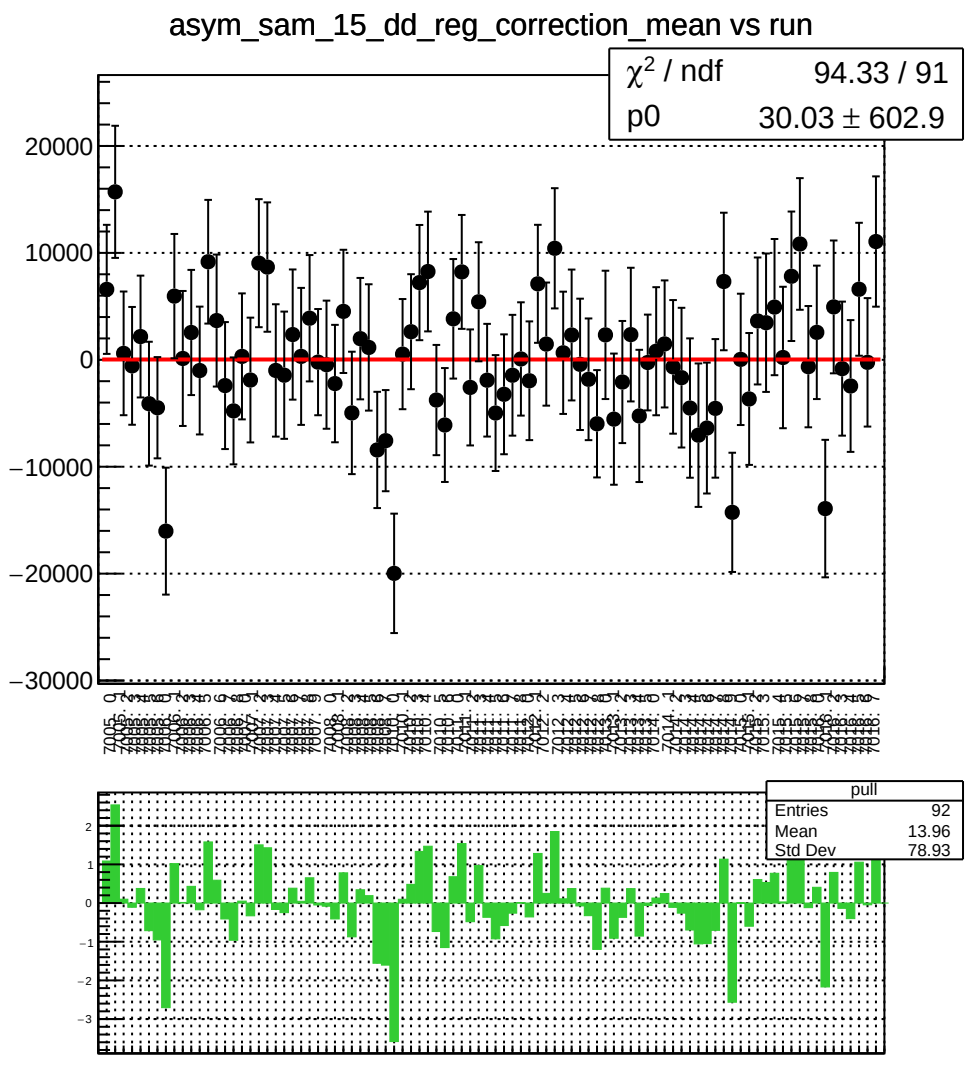

pull1D
Entries 92
Mean −0.2205
Std Dev 0.9969

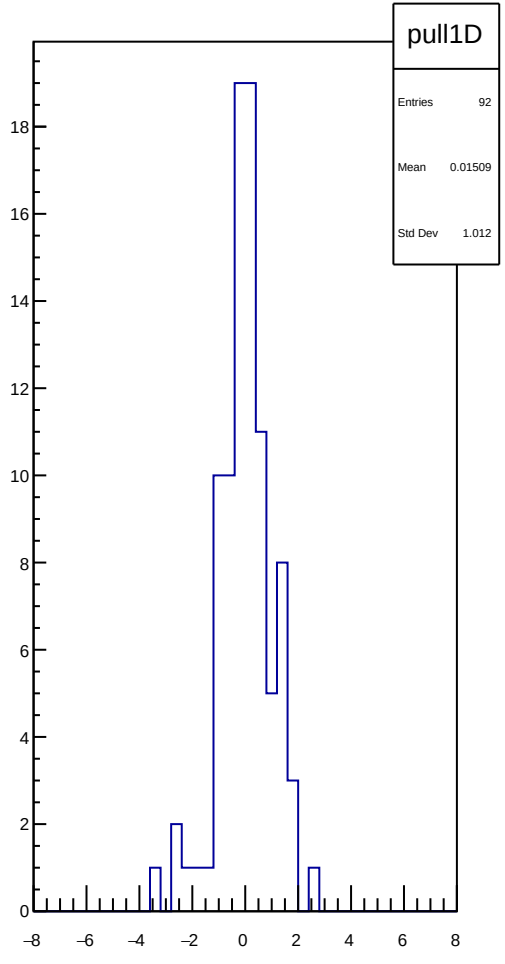

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.618e+05 / 91
p0 1.635e−11 ± 1.674e−14
0.1
0.08
0.06
0.04
0.02

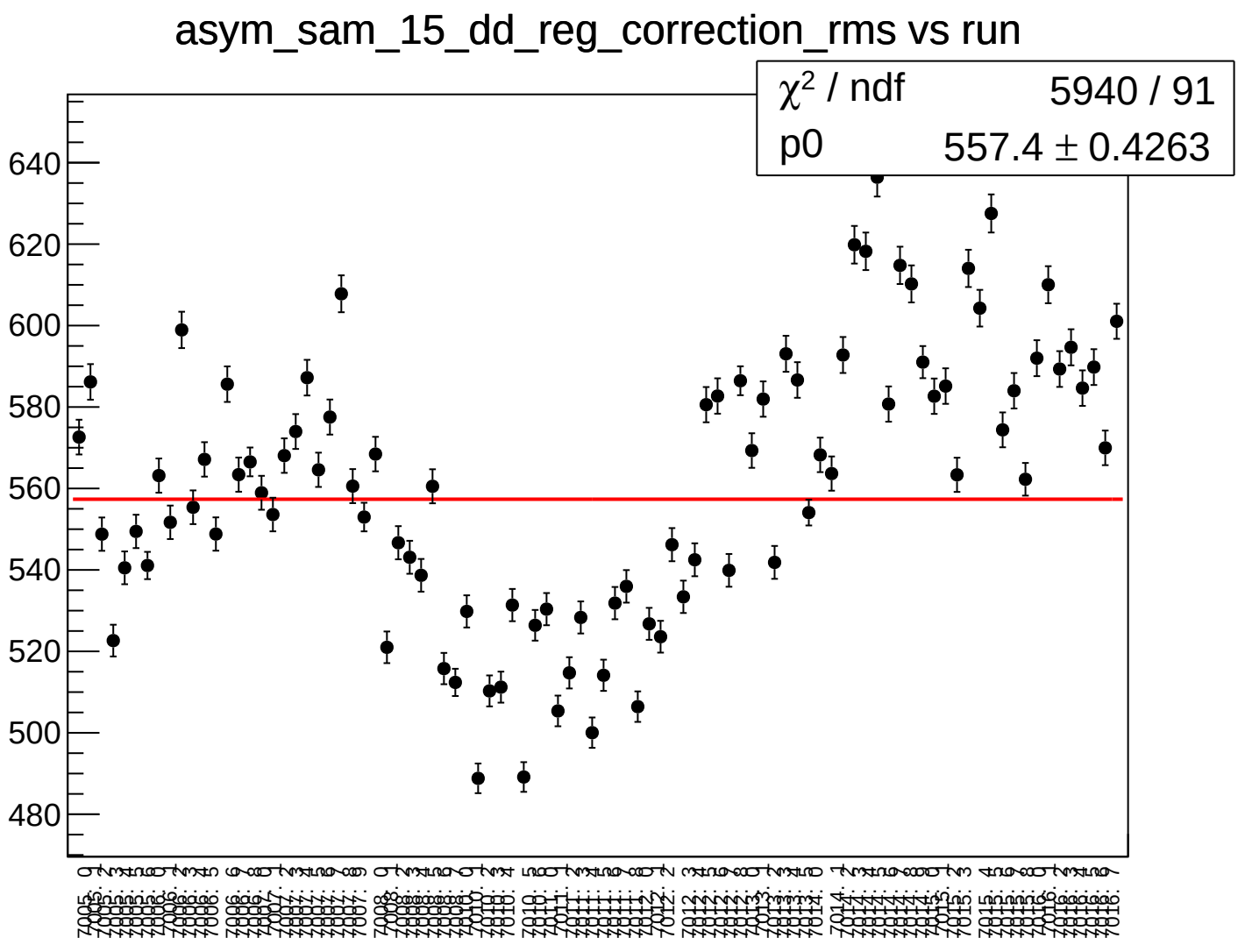

reg_asym_sam_15_dd_mean vs run
χ² / ndf 67.15 / 91
p0 −285.6 ± 117.3
pull
Entries 92
Mean 525.2
Std Dev 0

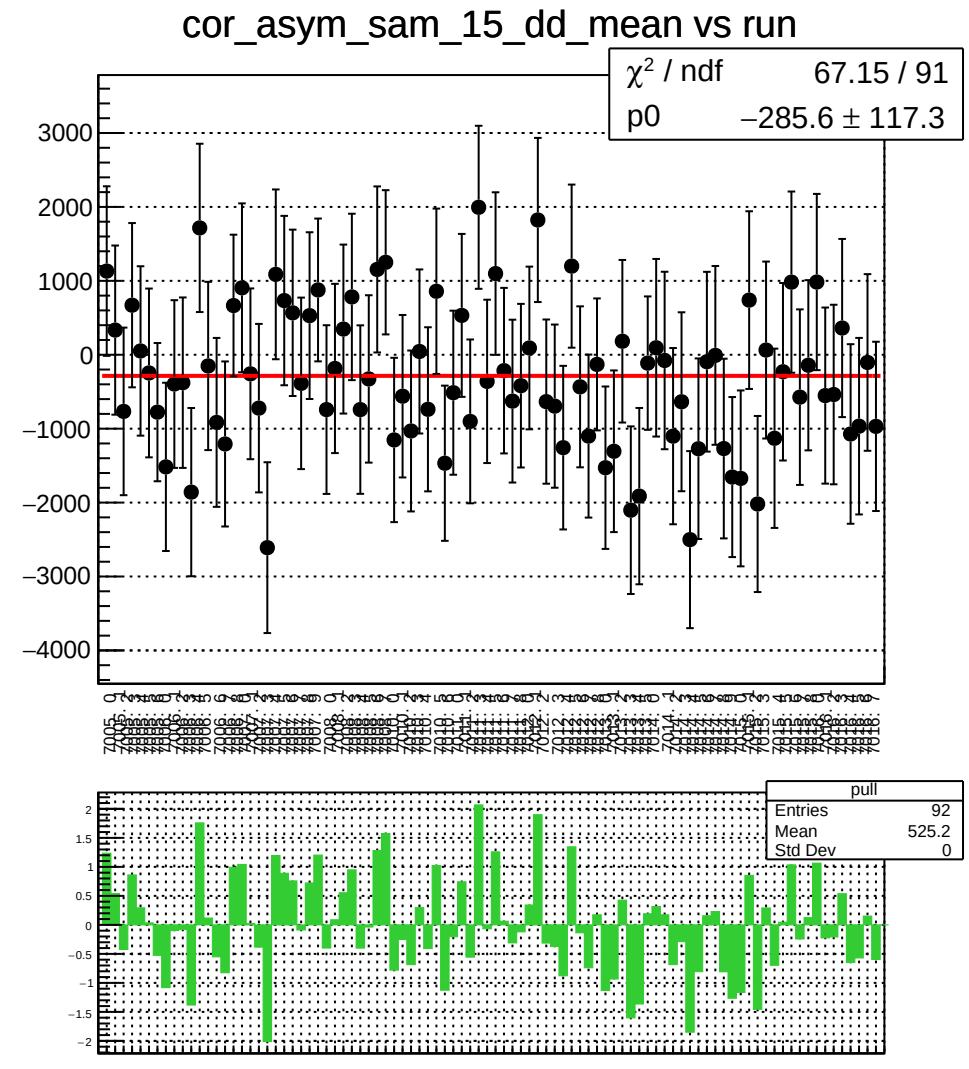

pull1D
Entries 92
Mean −0.009163
Std Dev 0.8543

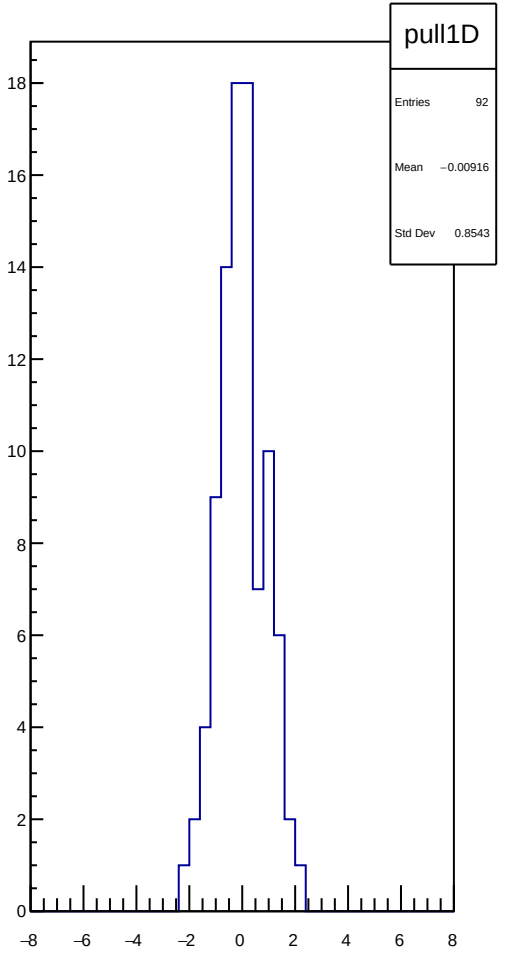

reg_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 2068 / 91
p0 108.6 ± 0.08297
118
116
114
112
110
108
106
104
102

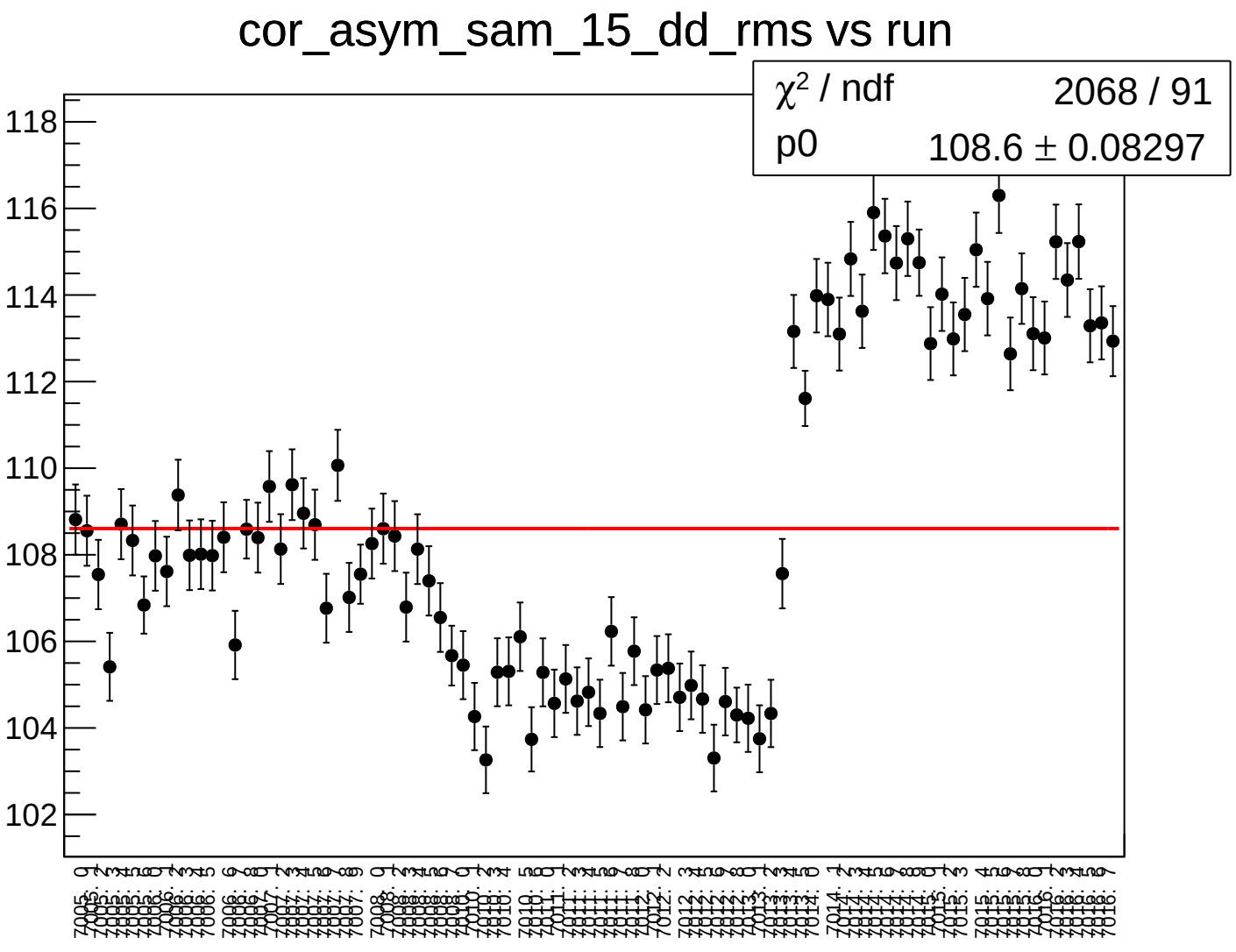

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 94.33 / 91
p0 30.03 ± 602.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 13.96
Std Dev 78.93
2
1
0
−1
−2
−3

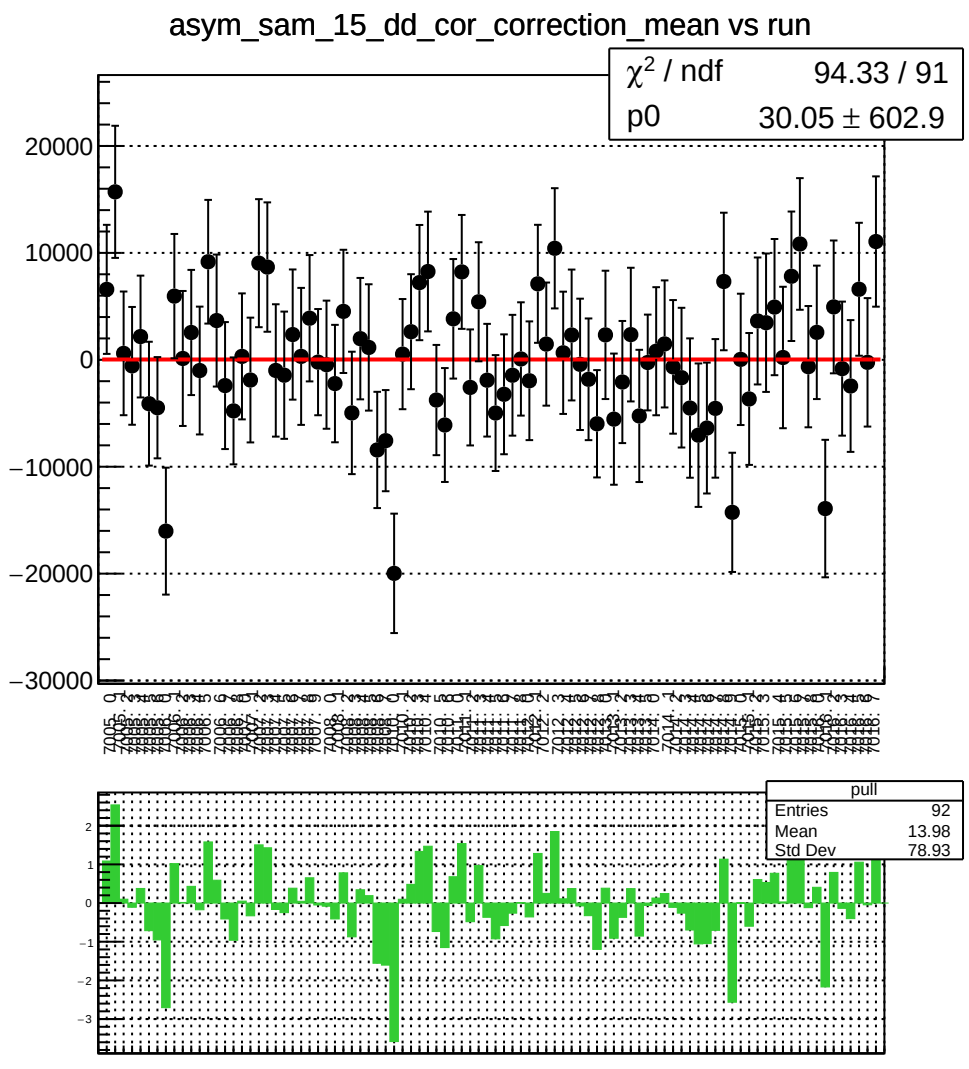

pull1D
Entries 92
Mean 0.01509
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

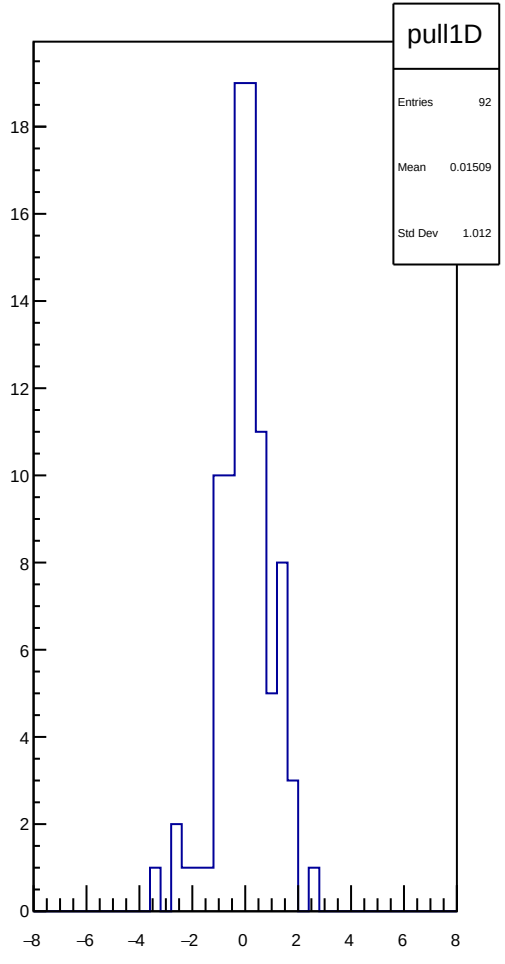

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 5940 / 91
p0 557.4 ± 0.4263
640
620
600
580
560
540
520
500
480

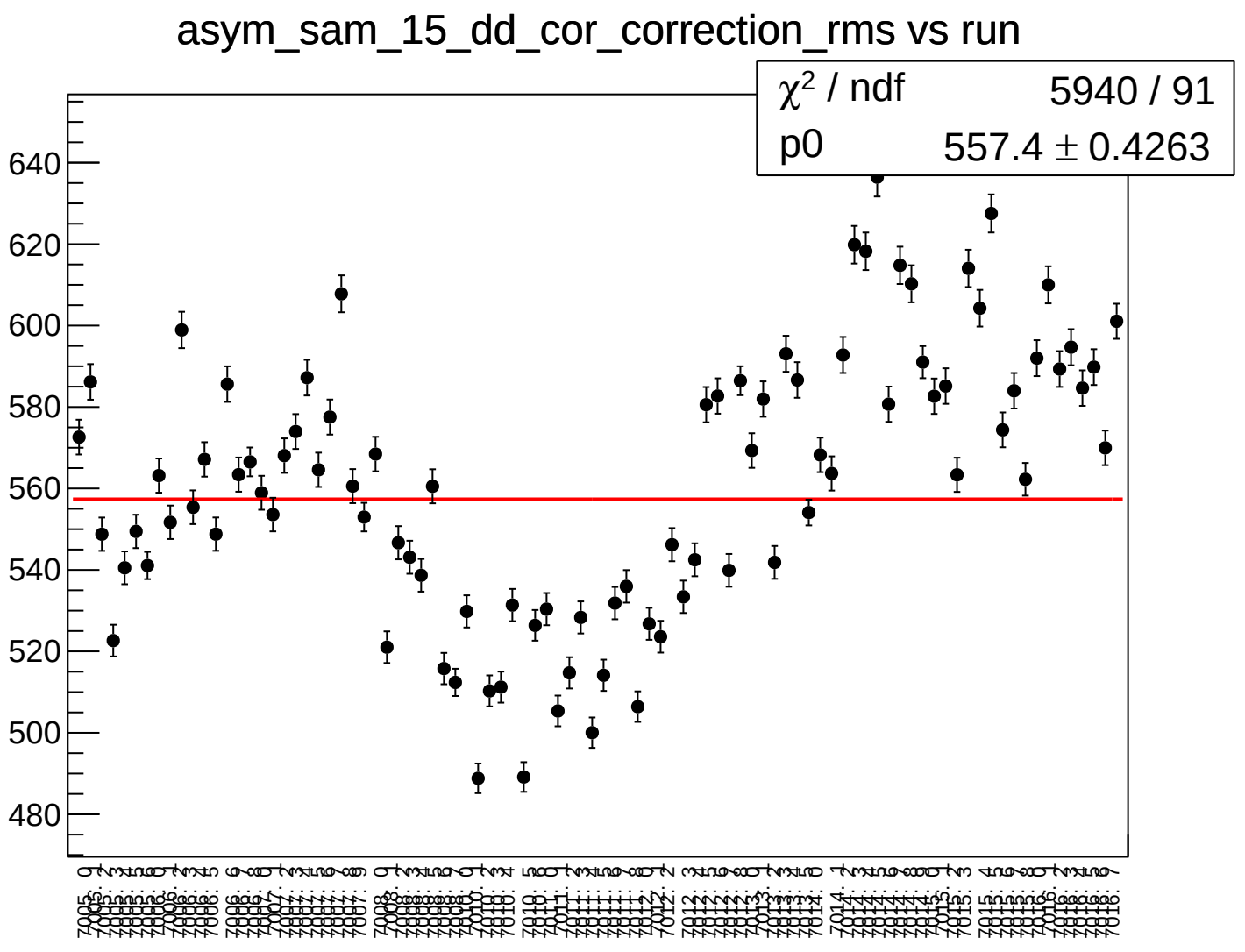

cor_asym_sam_15_dd_mean vs run
χ² / ndf 67.15 / 91
p0 −285.6 ± 117.3
pull
Entries 92
Mean 525.2
Std Dev 0

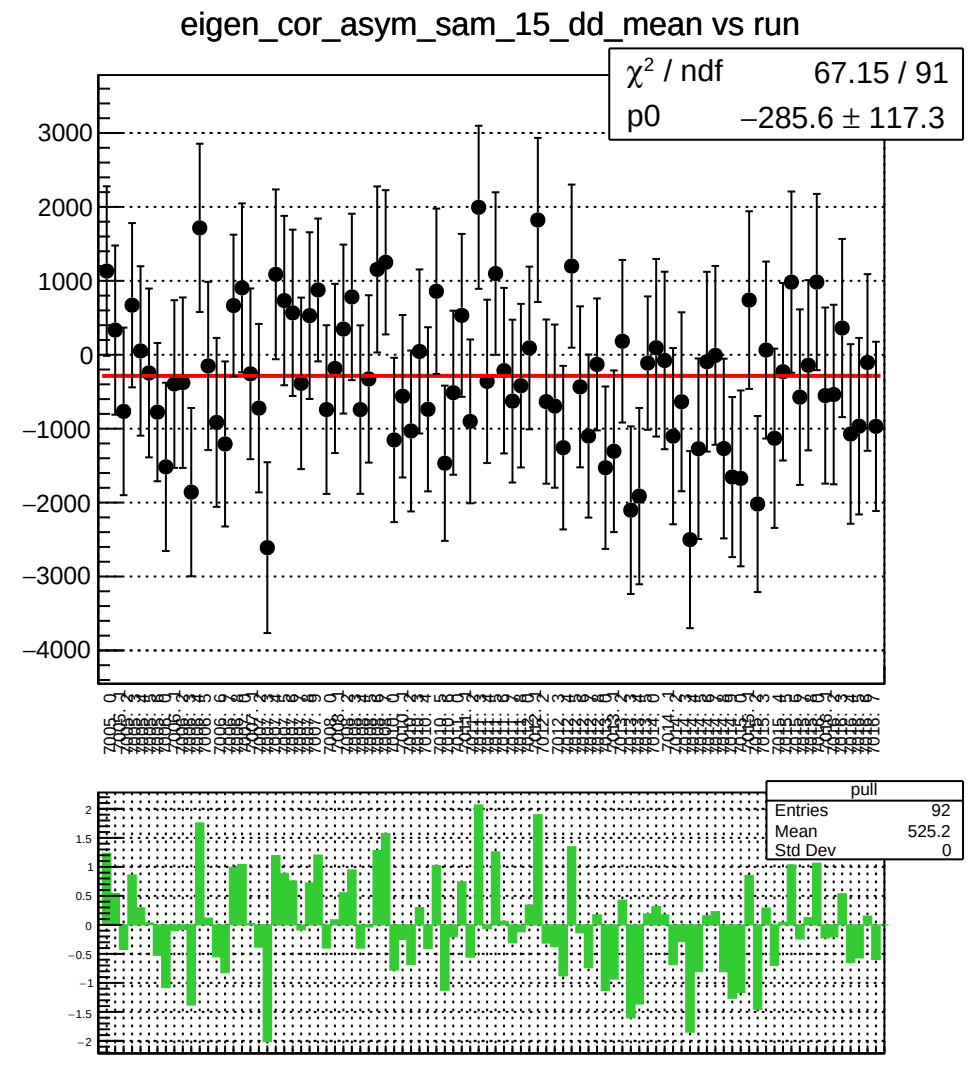

pull1D
Entries 92
Mean −0.00916
Std Dev 0.8543

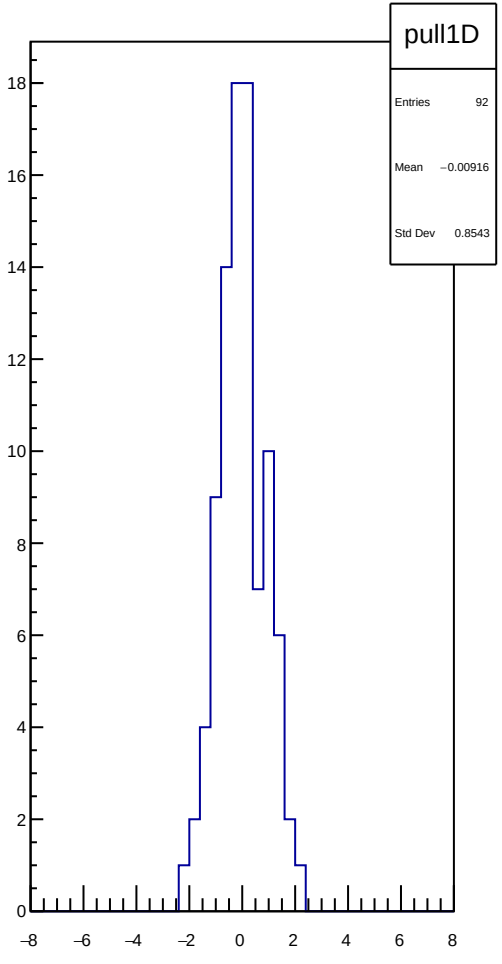

cor_asym_sam_15_dd_rms vs run
χ² / ndf 2068 / 91
p0 108.6 ± 0.08297
118
116
114
112
110
108
106
104
102

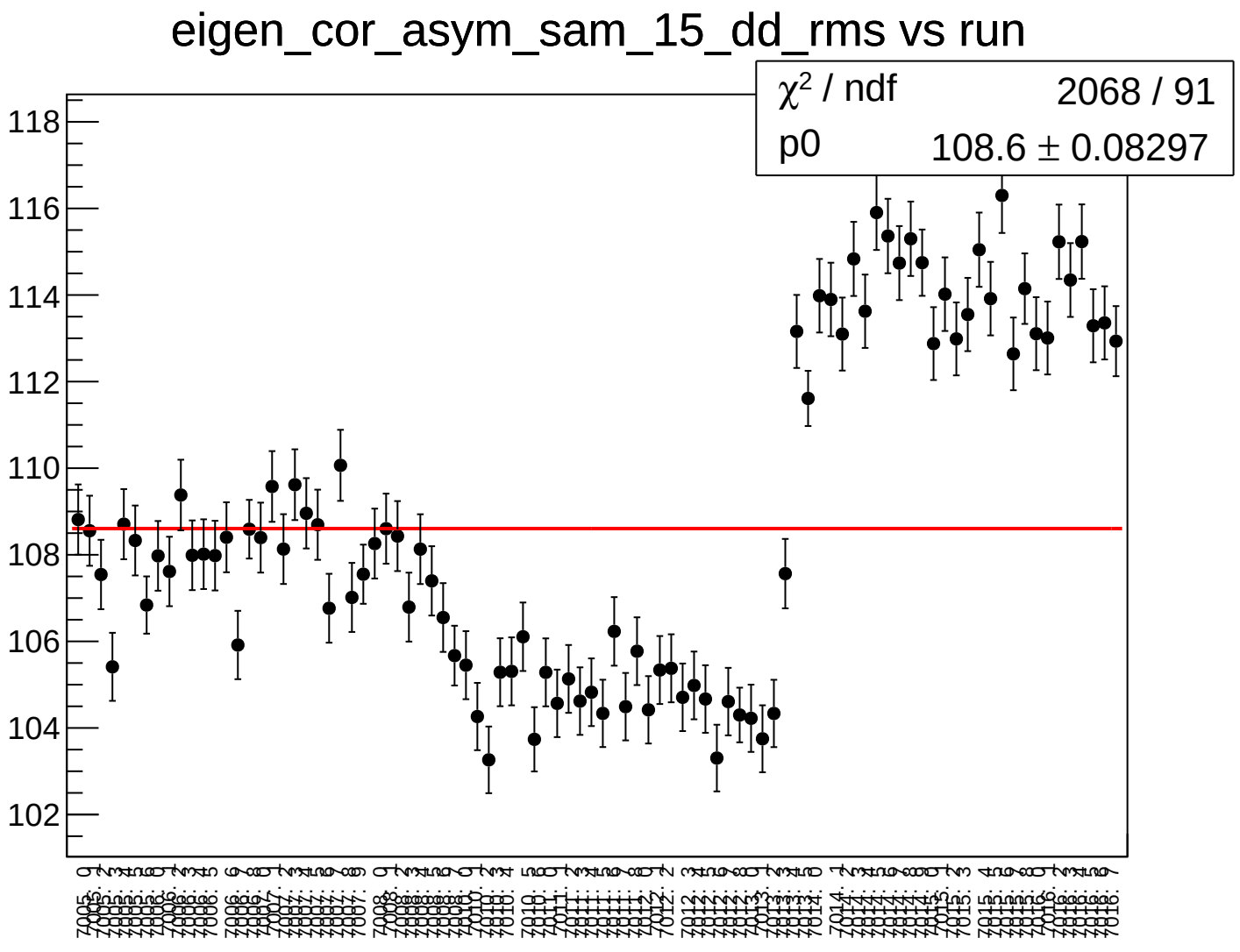

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 94.33 / 91
p0 30.05 ± 602.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 13.98
Std Dev 78.93
2
1
0
−1
−2
−3

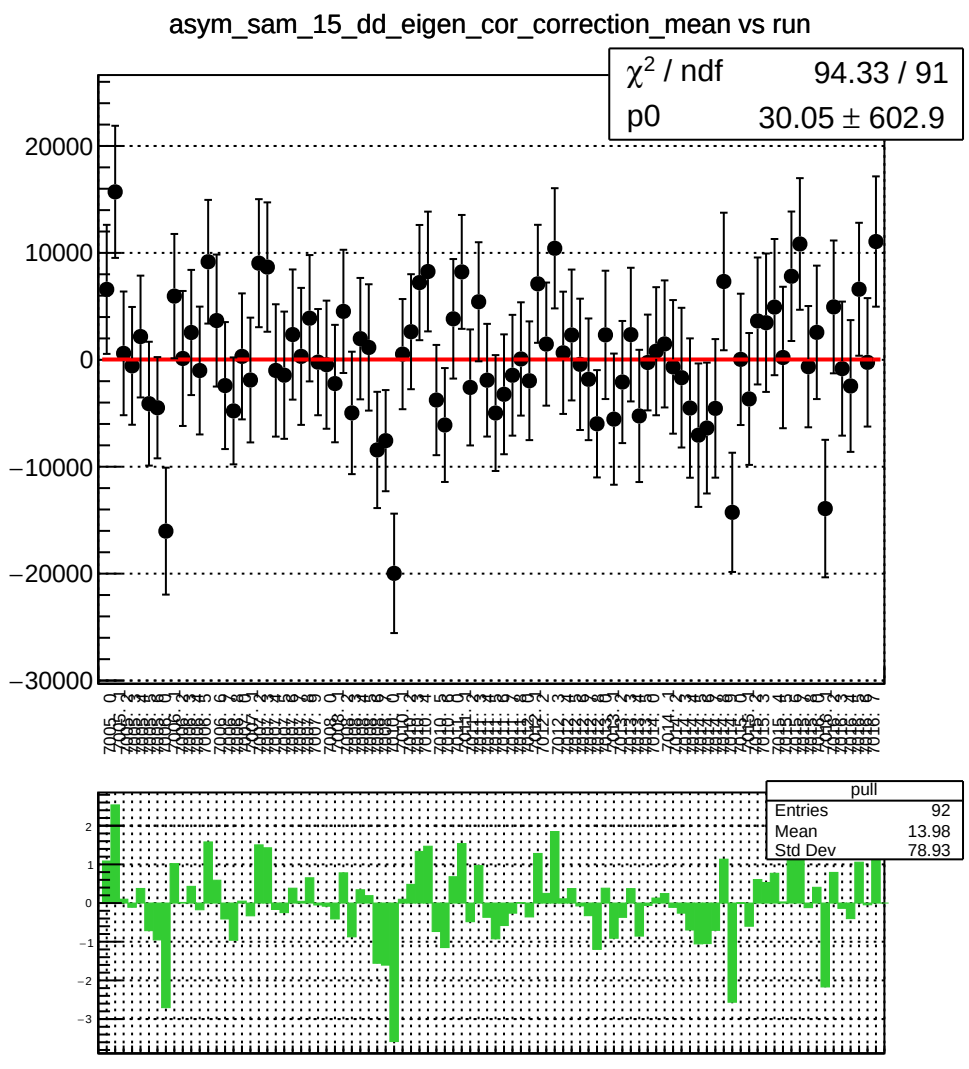

pull1D
Entries 92
Mean 0.01509
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

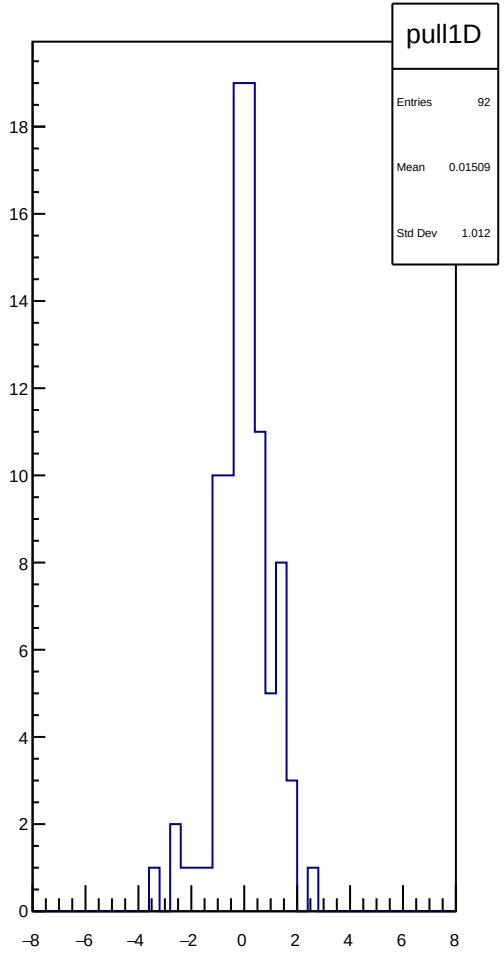

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 5940 / 91
p0 557.4 ± 0.4263
640
620
600
580
560
540
520
500
480

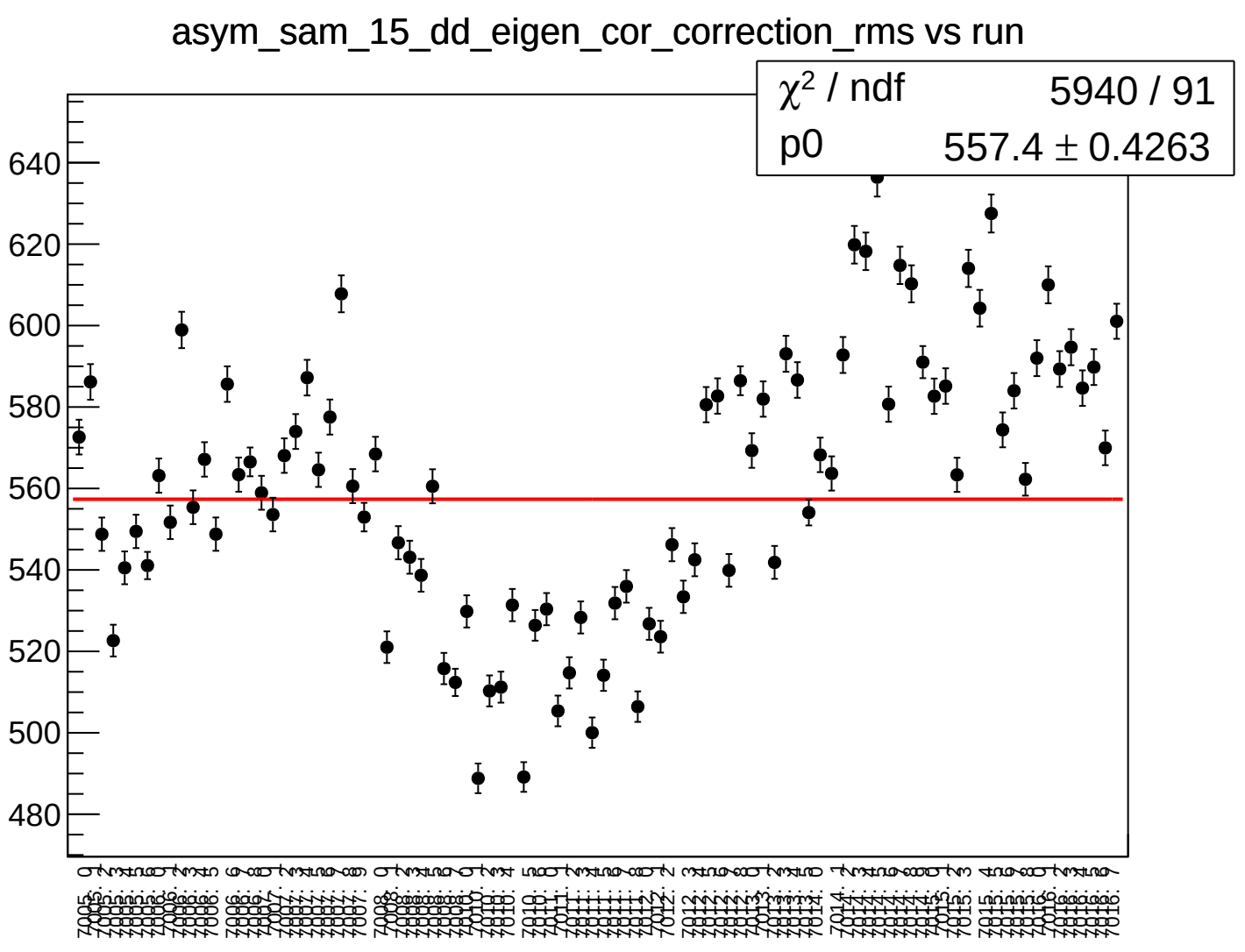

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 67.15 / 91
p0 −285.6 ± 117.3
pull
Entries 92
Mean 525.2
Std Dev 0

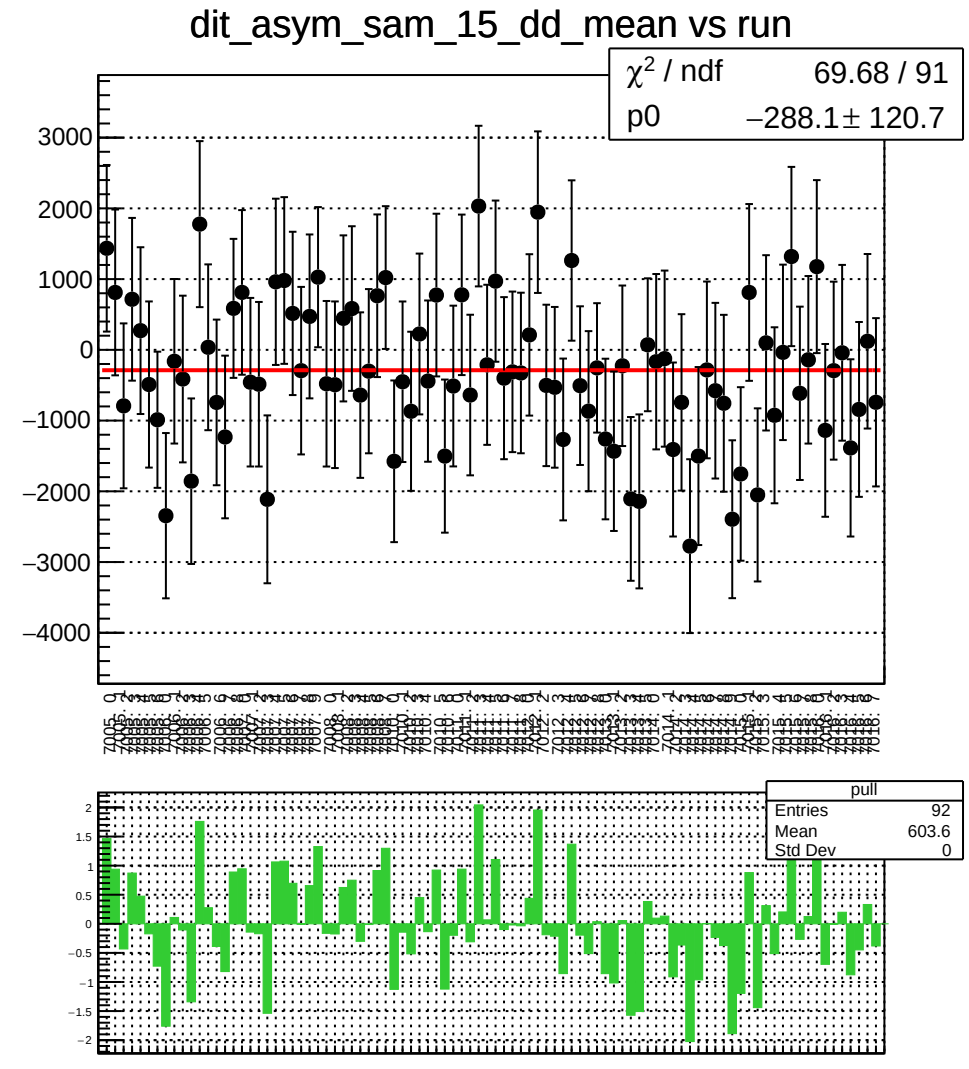

pull1D
Entries 92
Mean −0.00916
Std Dev 0.8543

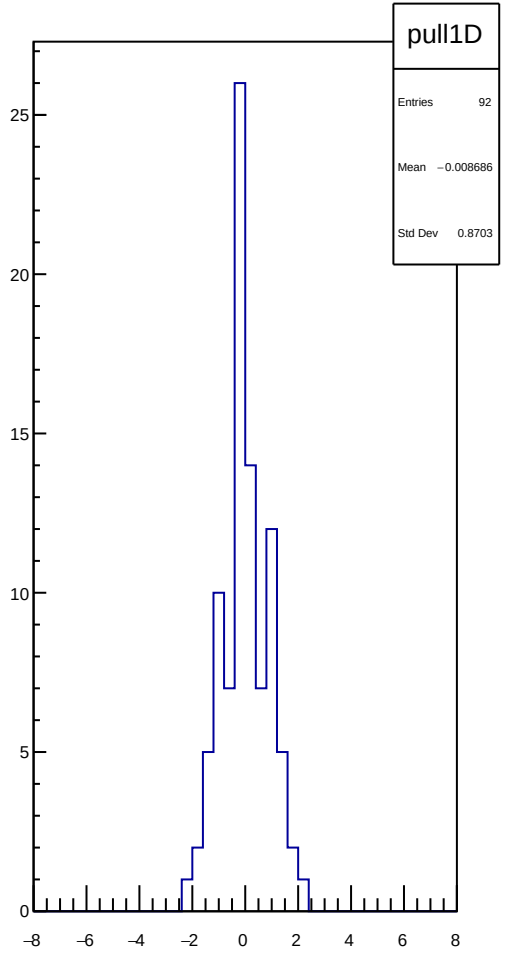

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 2068 / 91
p0 108.6 ± 0.08297
118
116
114
112
110
108
106
104
102

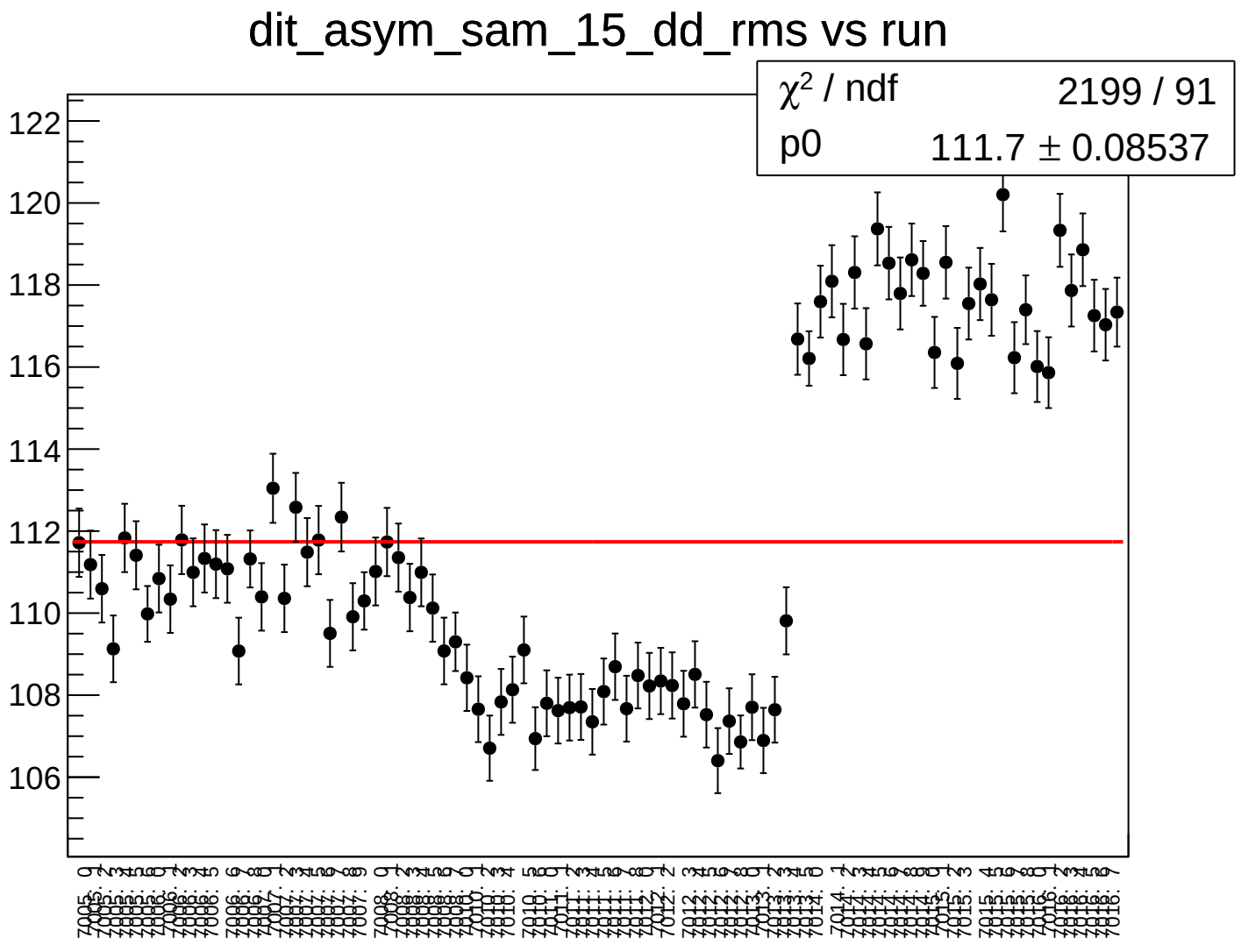

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 94.33 / 91
p0 30.05 ± 602.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 13.98
Std Dev 78.93
2
1
0
−1
−2
−3

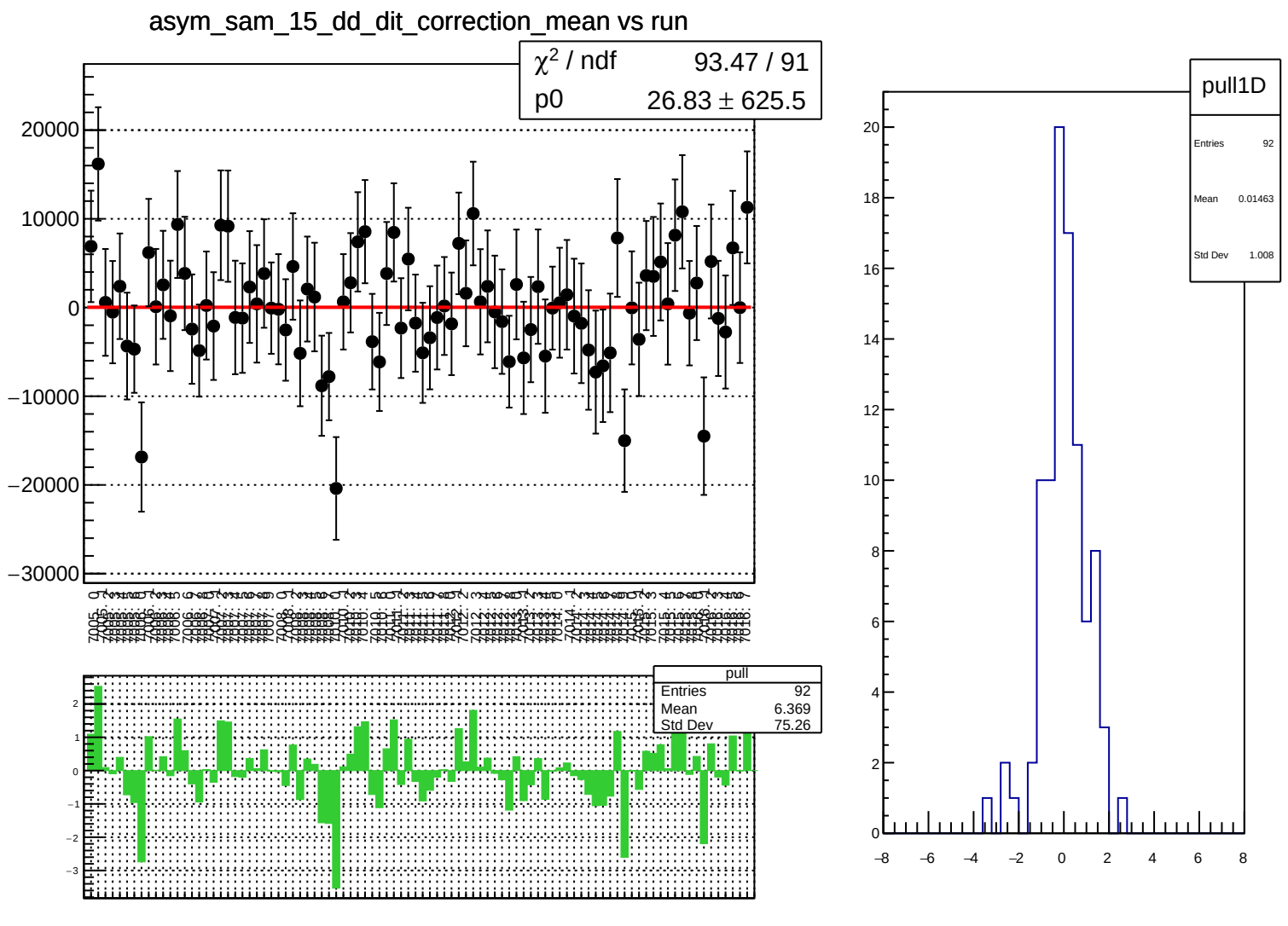

pull1D
Entries 92
Mean 0.01509
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

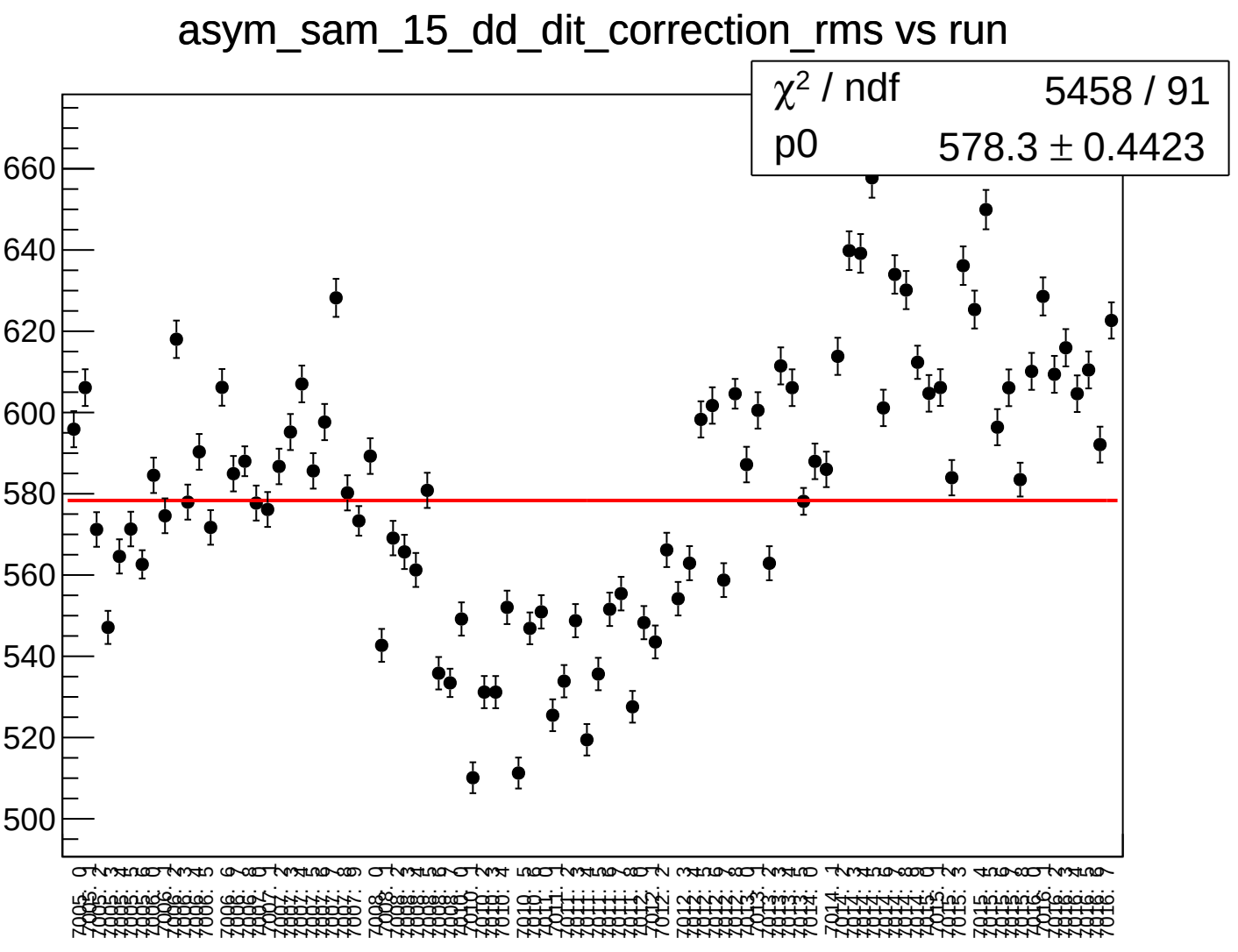

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 5940 / 91
p0 557.4 ± 0.4263
640
620
600
580
560
540
520
500
480

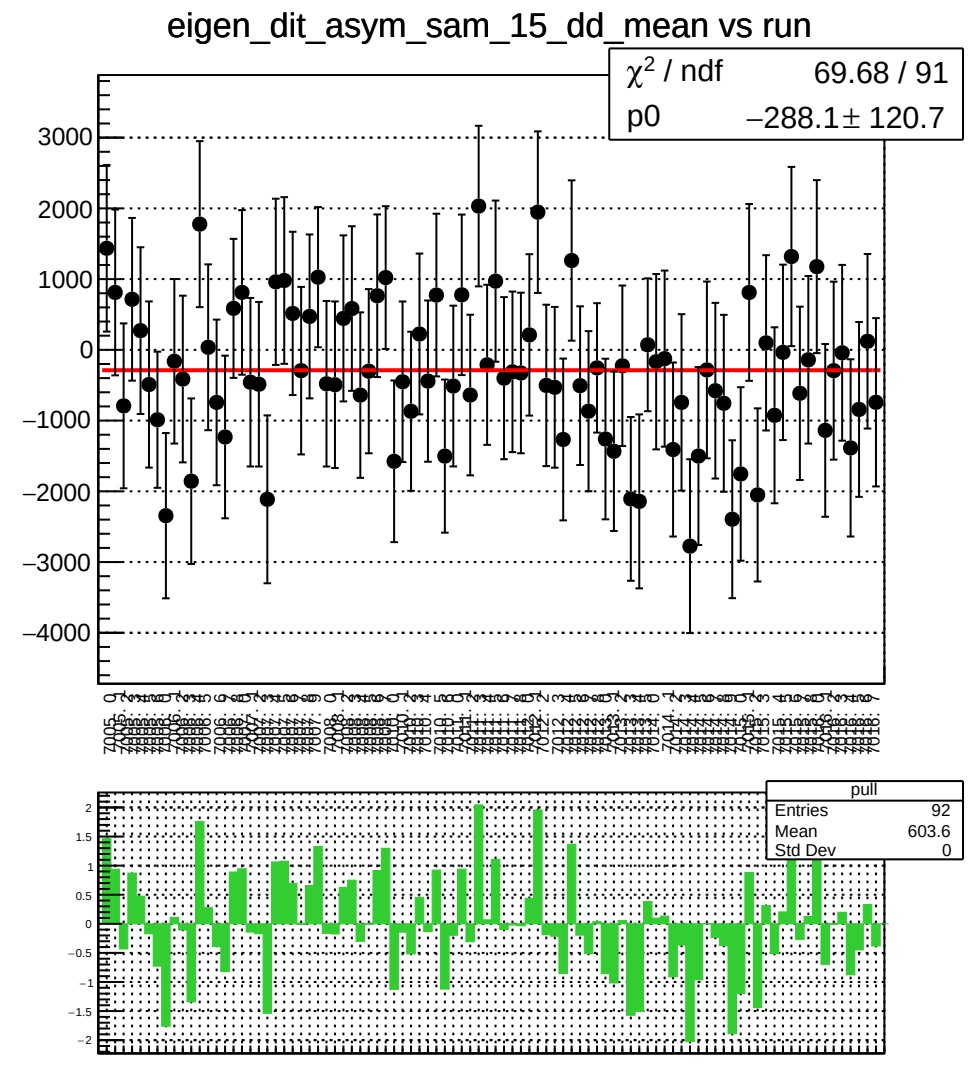

dit_asym_sam_15_dd_mean vs run
χ² / ndf 69.68 / 91
p0 −288.1± 120.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean 603.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

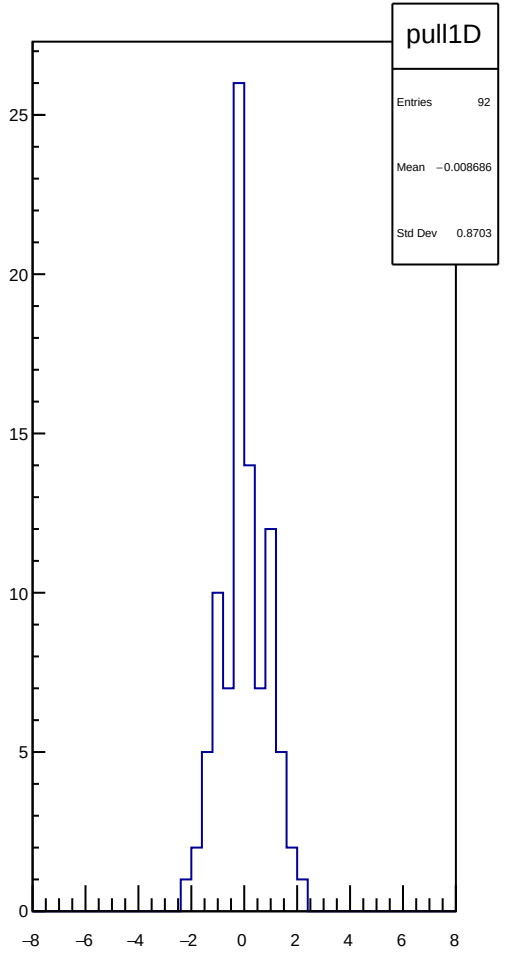

pull1D
Entries 92
Mean −0.008686
Std Dev 0.8703
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

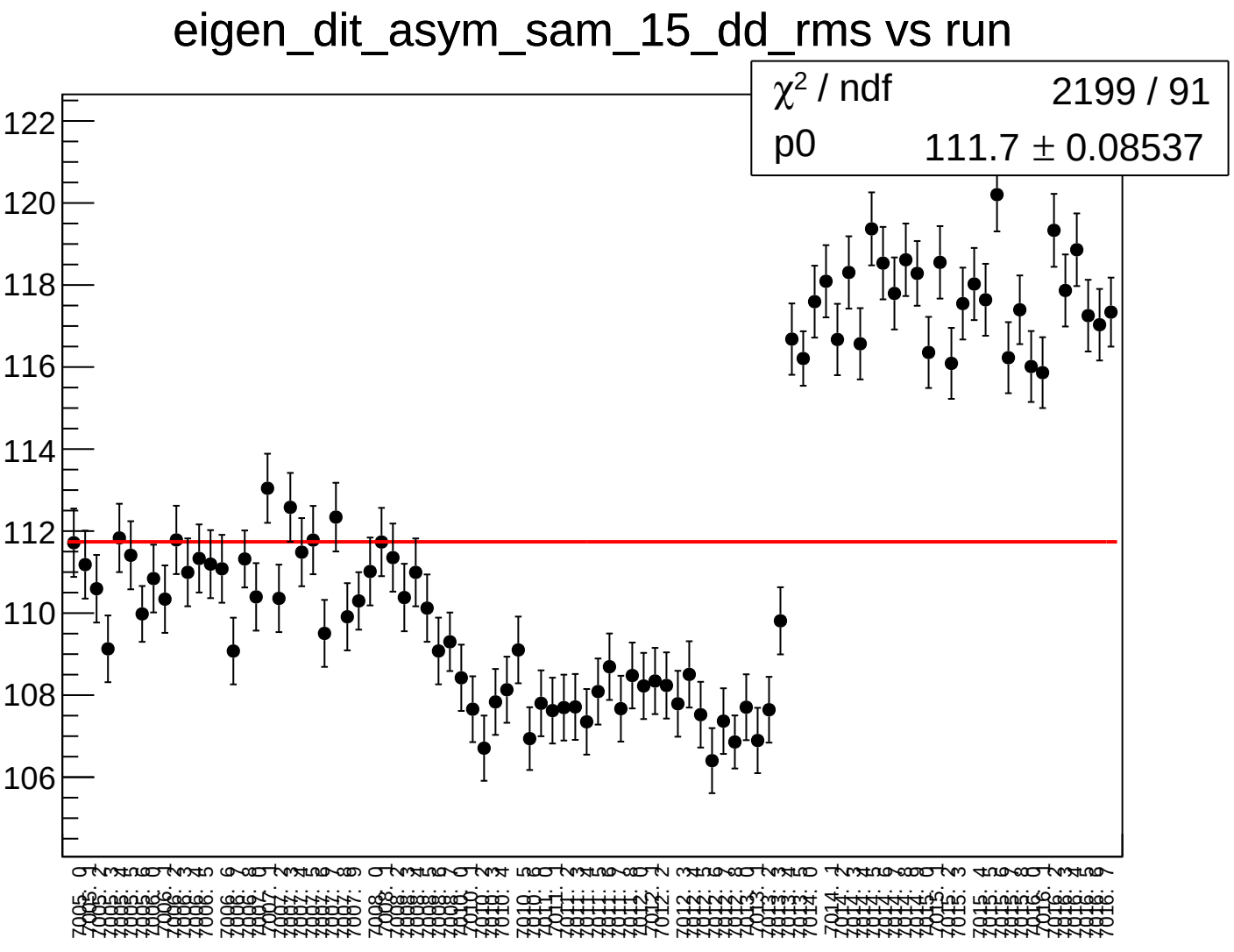

dit_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 2199 / 91
p0 111.7 ± 0.08537
122
120
118
116
114
112
110
108
106

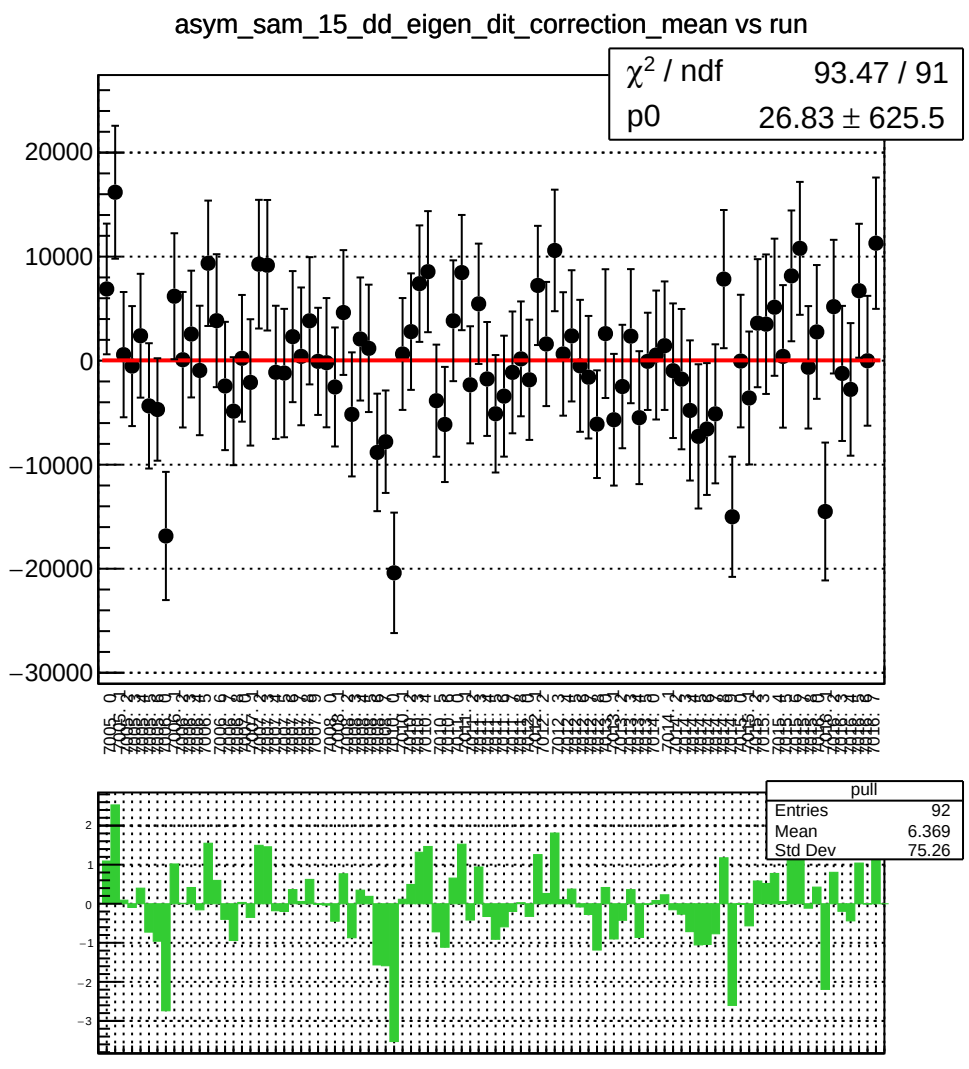

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 93.47 / 91
p0 26.83 ± 625.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 6.369
Std Dev 75.26
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01463
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

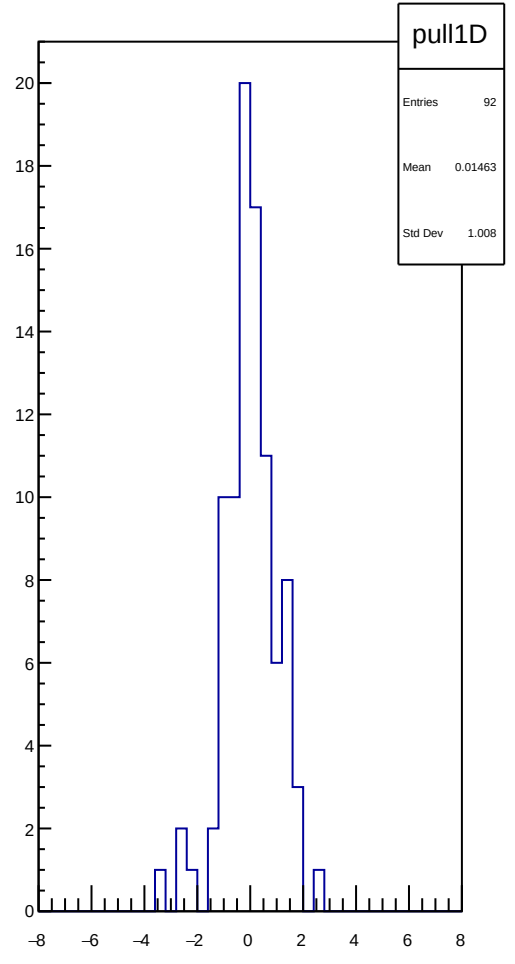

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 5458 / 91
p0 578.3 ± 0.4423
660
640
620
600
580
560
540
520
500

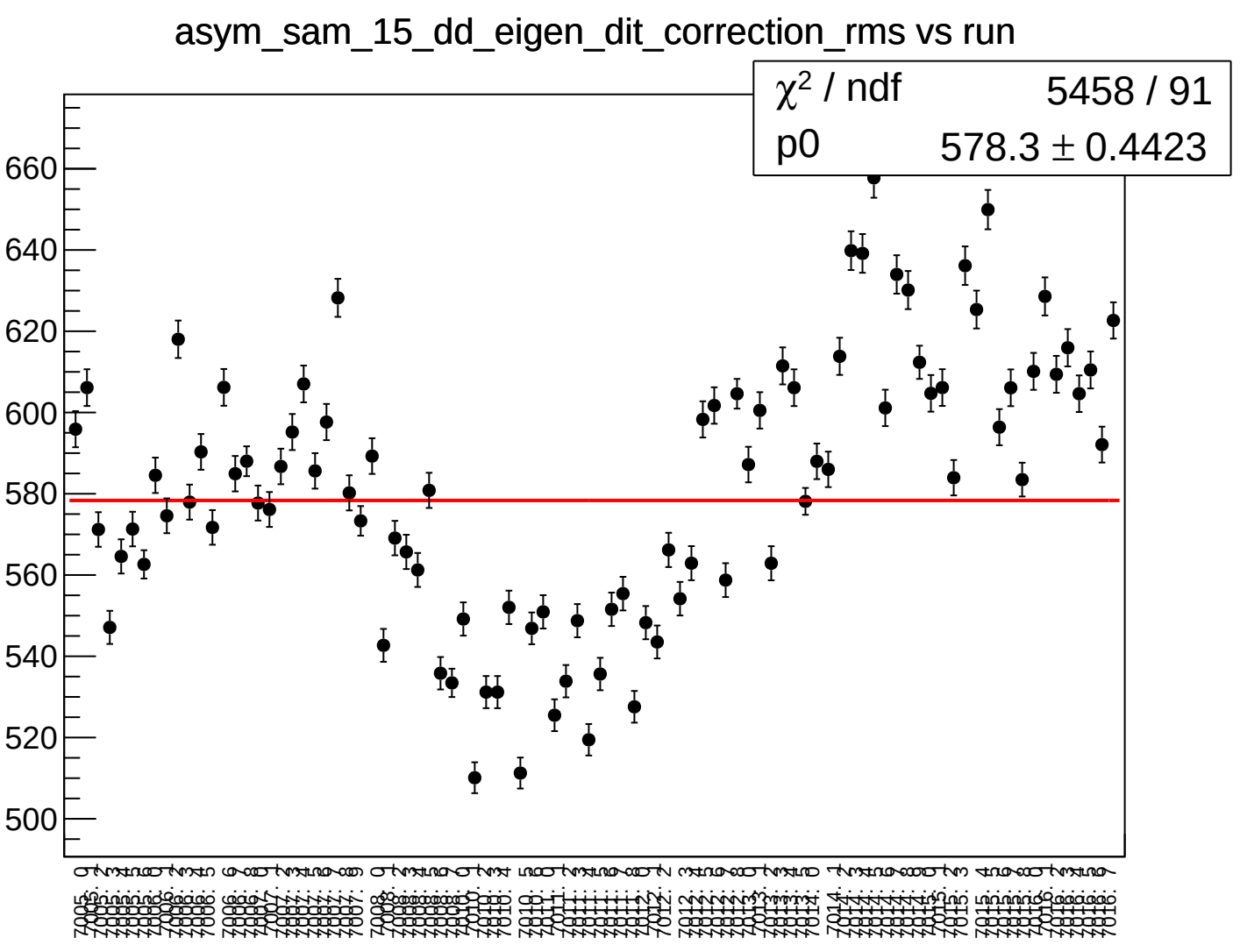

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 69.68 / 91
p0 −288.1± 120.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean 603.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

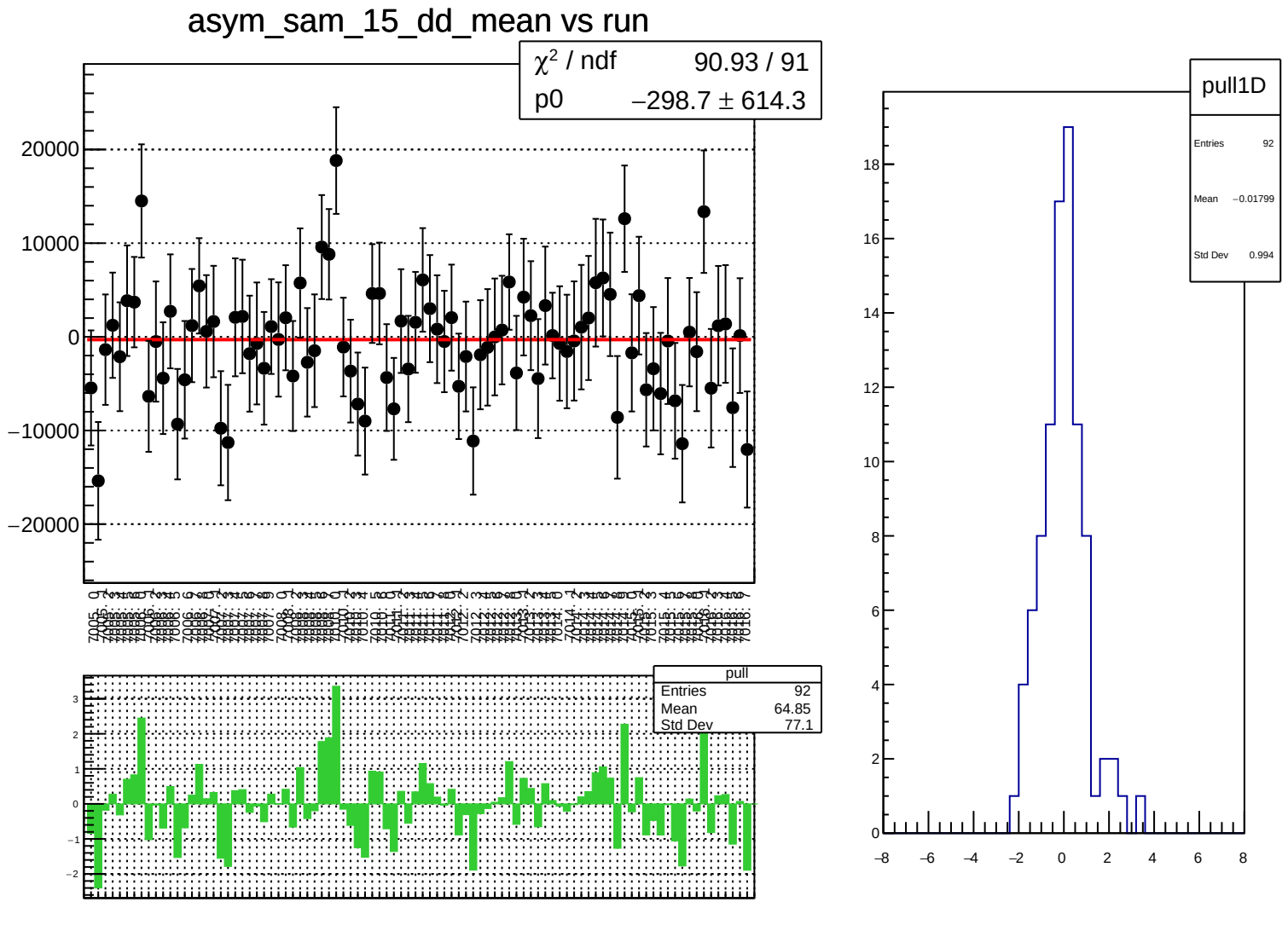

pull1D
Entries 92
Mean −0.008686
Std Dev 0.8703
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

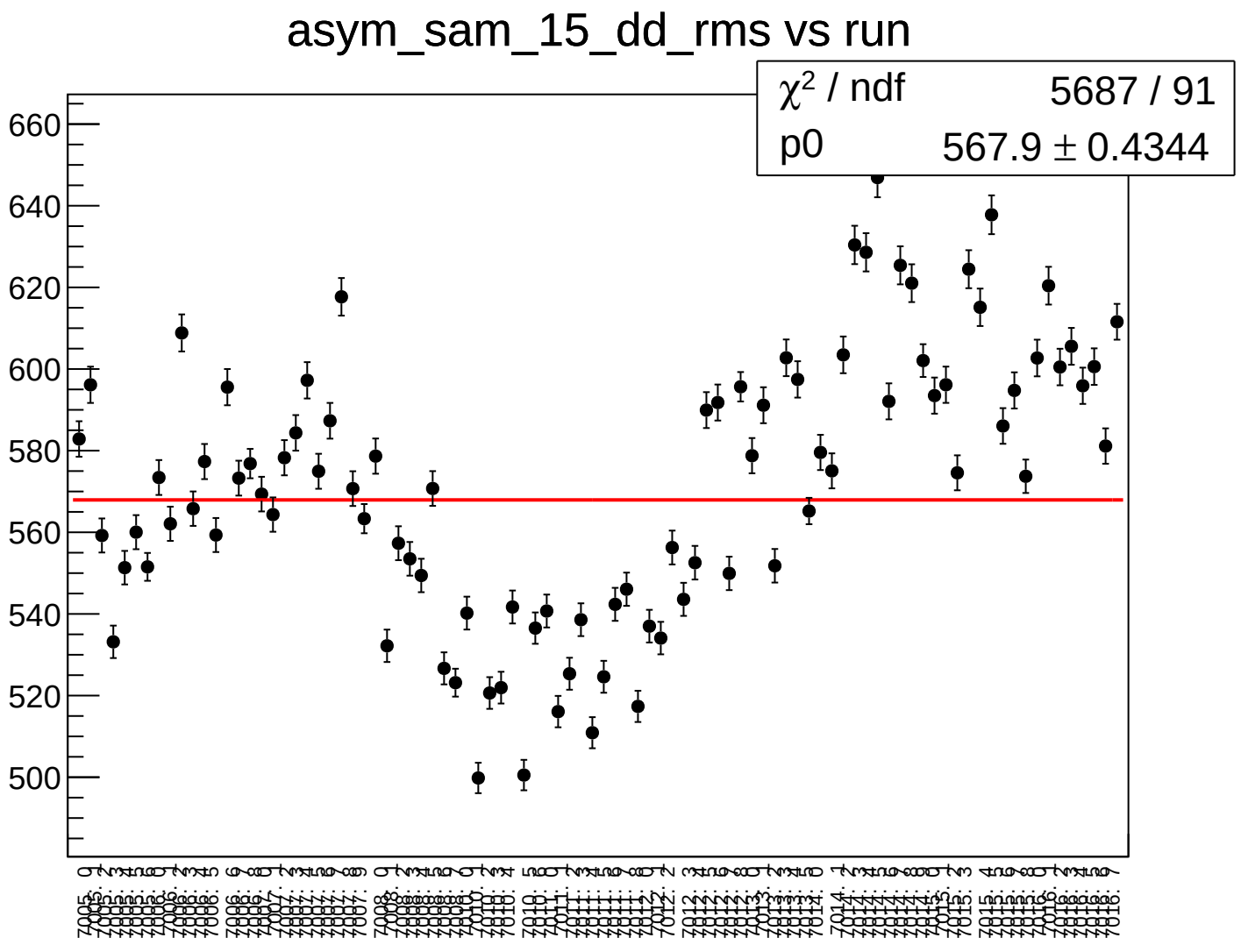

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 2199 / 91
p0 111.7 ± 0.08537
122
120
118
116
114
112
110
108
106

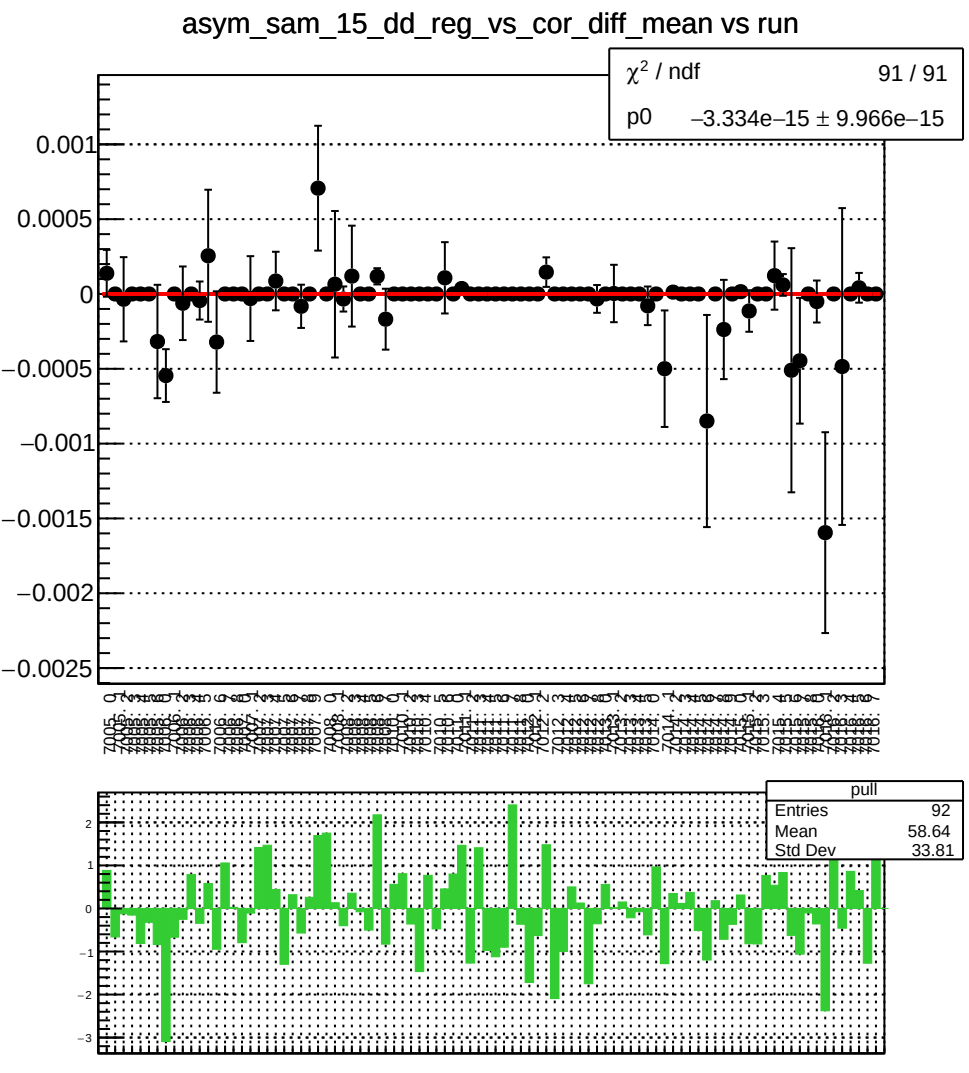

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.47 / 91
p0 26.83 ± 625.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 6.369
Std Dev 75.26
2
1
0
−1
−2
−3

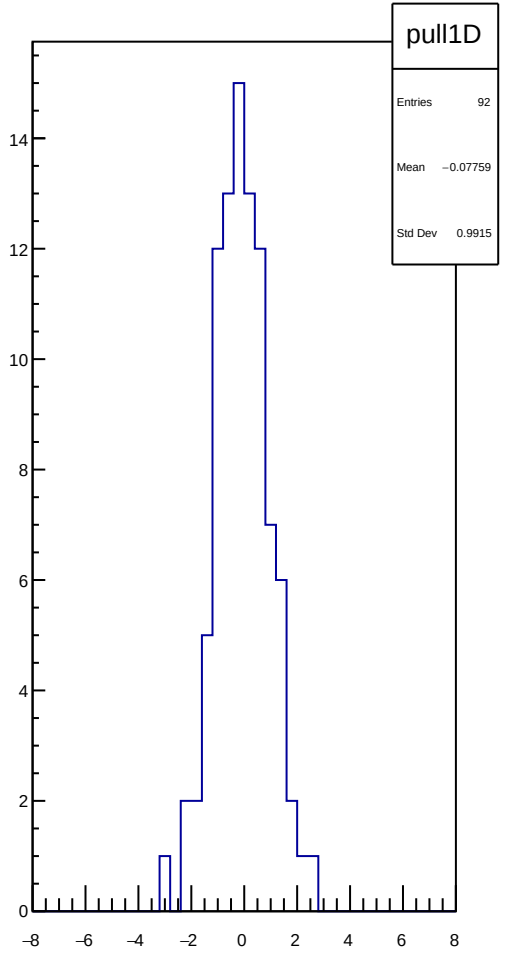

pull1D
Entries 92
Mean 0.01463
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

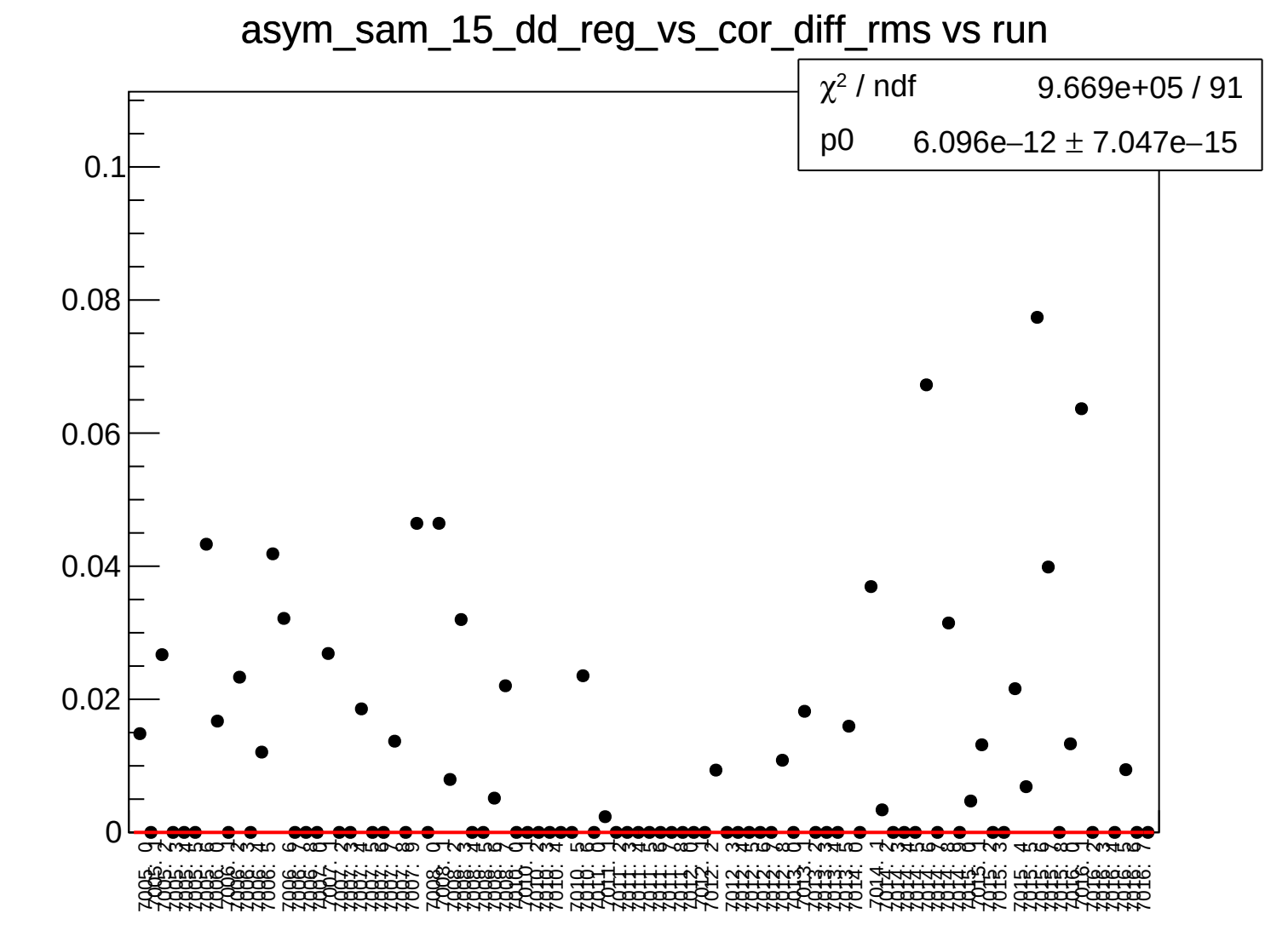

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 5458 / 91
p0 578.3 ± 0.4423
660
640
620
600
580
560
540
520
500

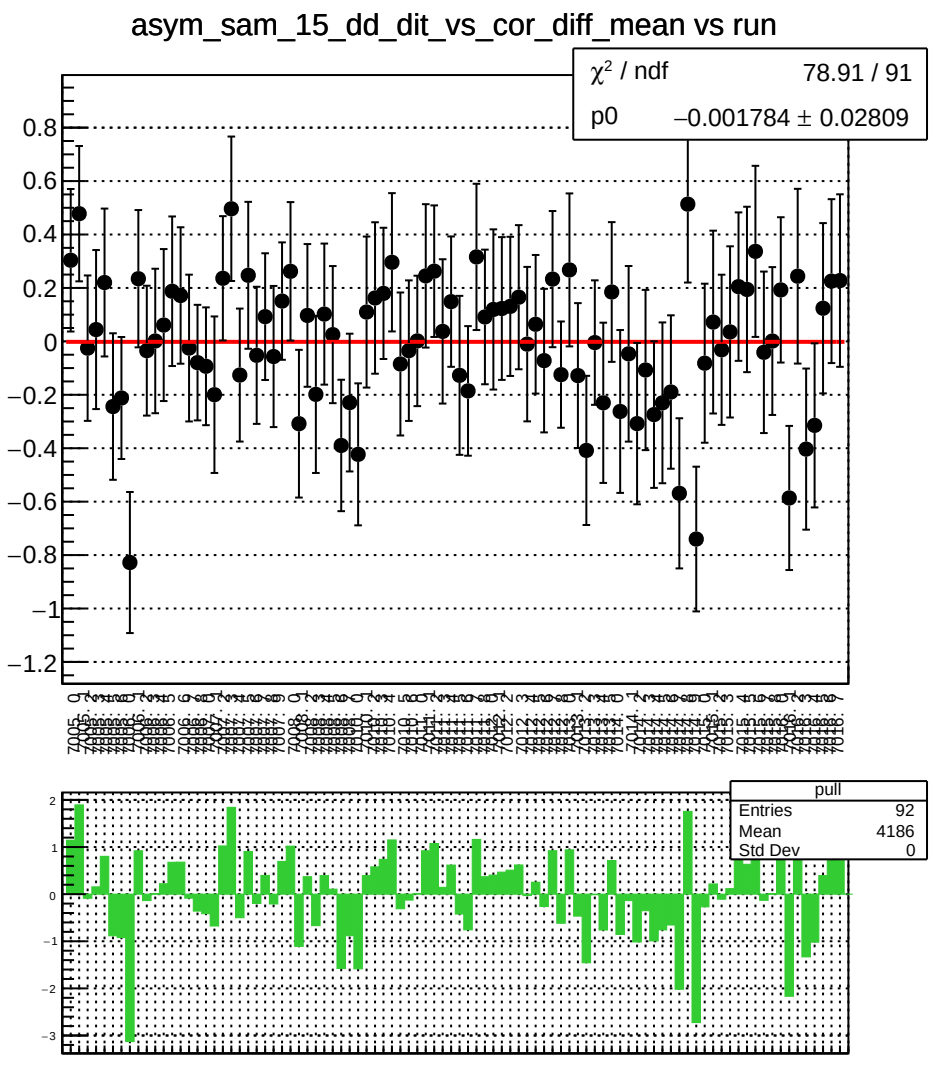

asym_sam_15_dd_mean vs run
χ² / ndf 90.93 / 91
p0 −298.7 ± 614.3
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 64.85
Std Dev 77.1
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01799
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

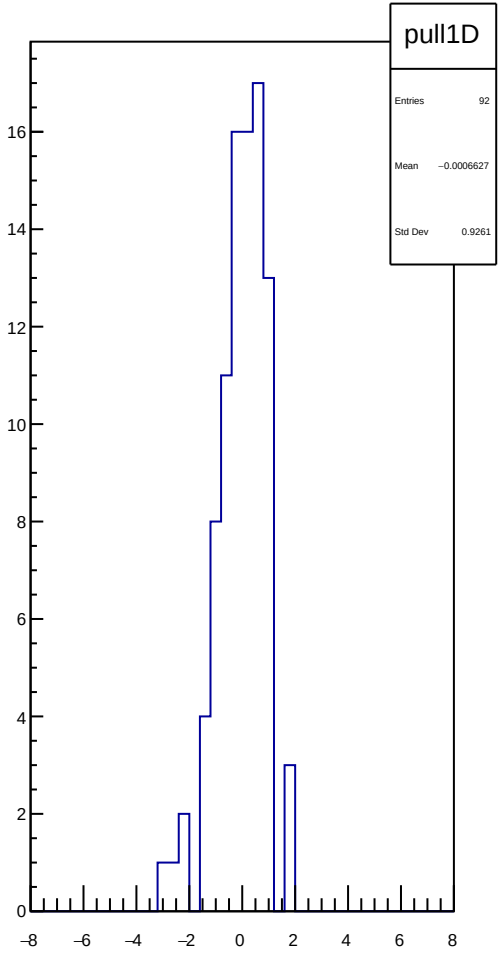

asym_sam_15_dd_rms vs run
χ² / ndf 5687 / 91
p0 567.9 ± 0.4344
660
640
620
600
580
560
540
520
500

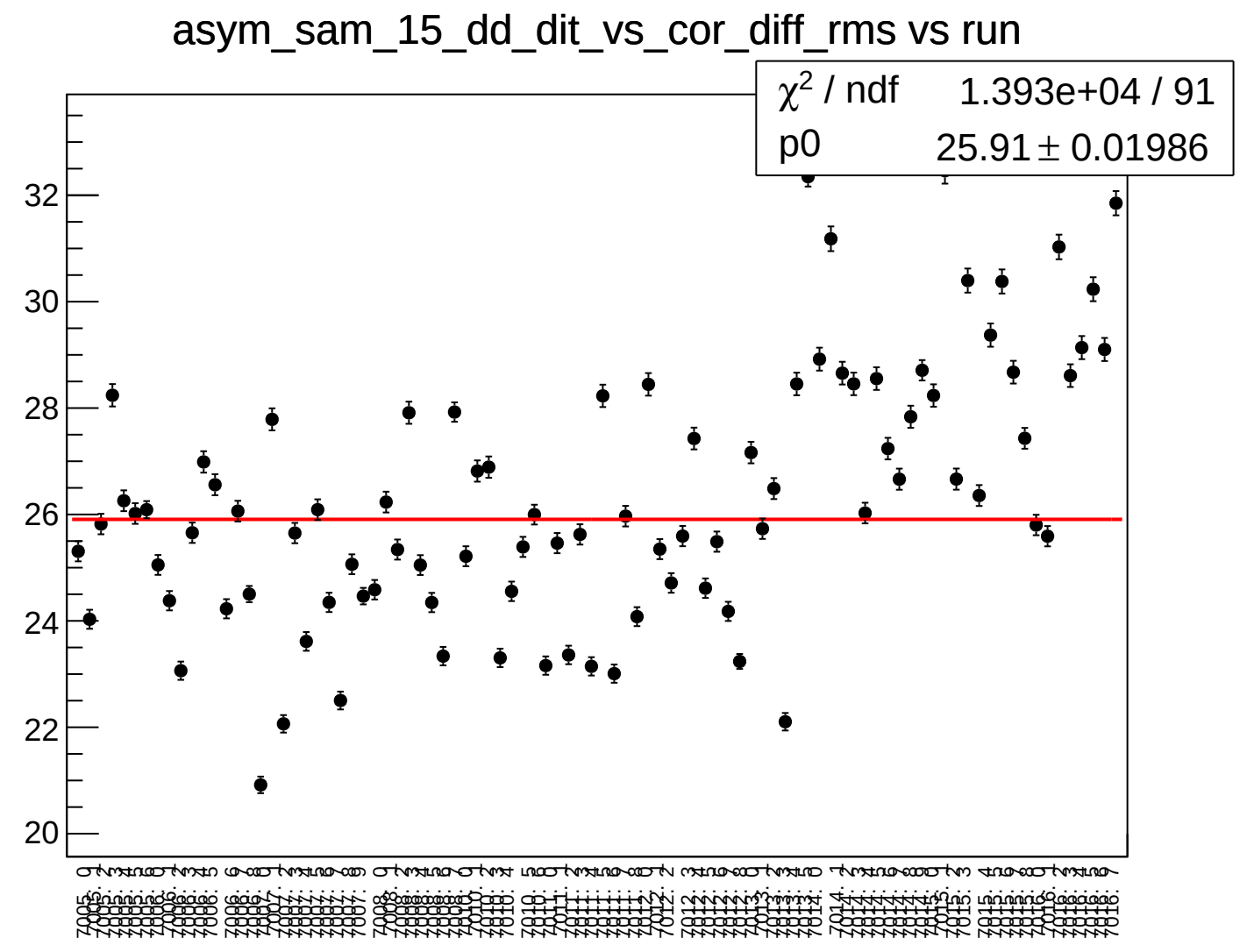

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91 / 91
p0 −3.334e−15 ± 9.966e−15
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 92
Mean 58.64
Std Dev 33.81
2
1
0
−1
−2
−3

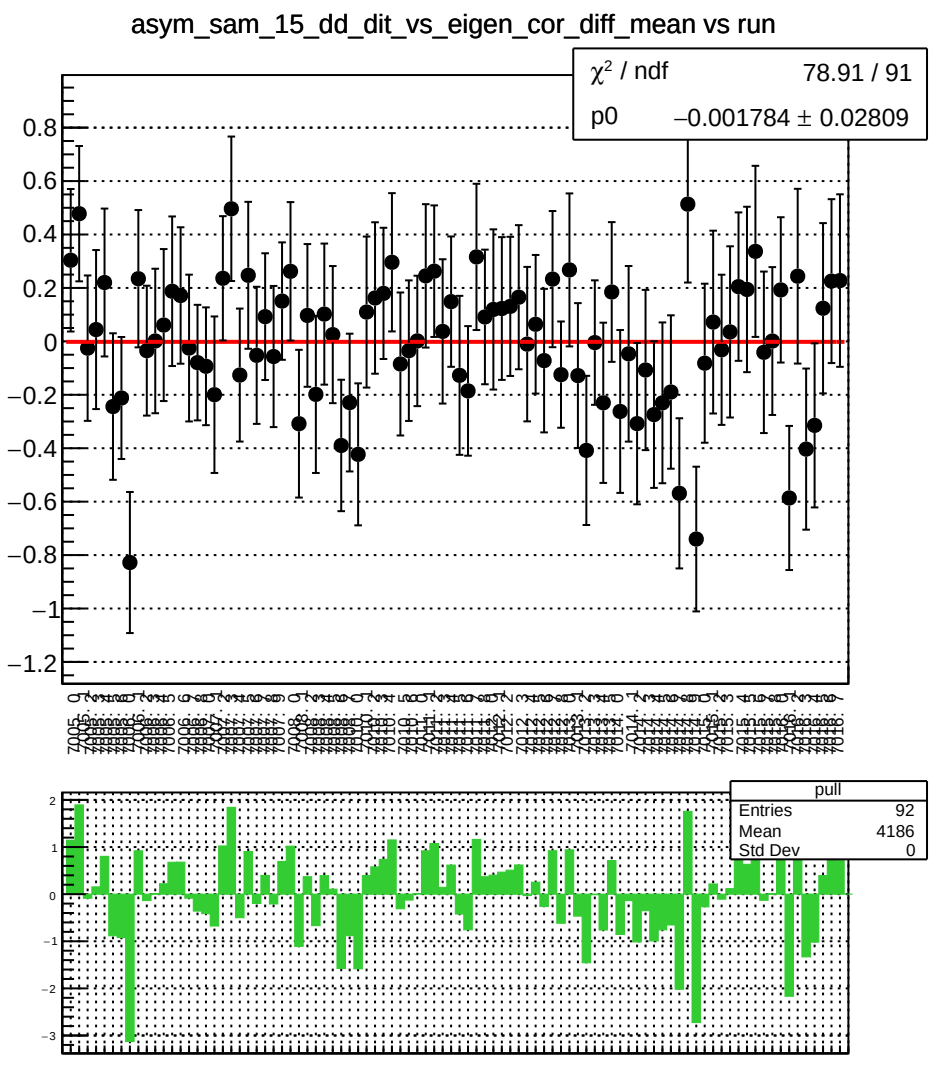

pull1D
Entries 92
Mean −0.07759
Std Dev 0.9915
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

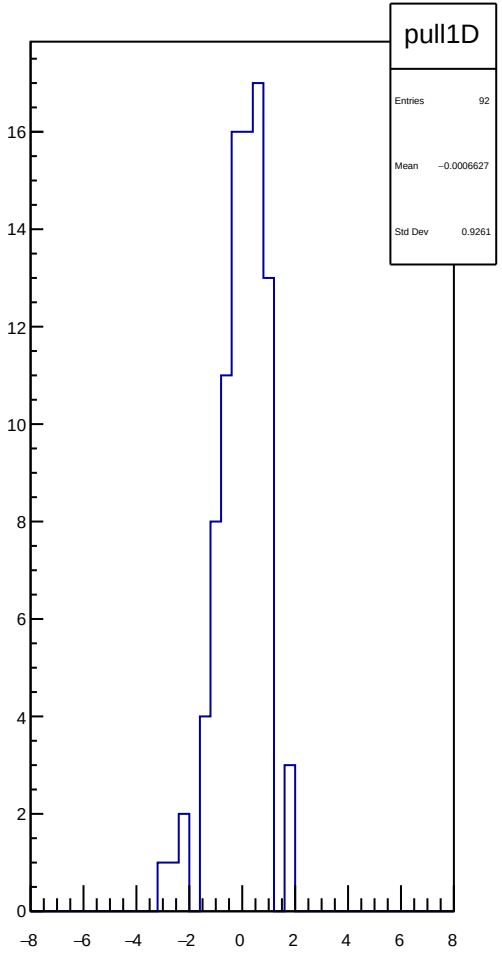

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.669e+05 / 91
p0 6.096e−12 ± 7.047e−15
0.1
0.08
0.06
0.04
0.02
0

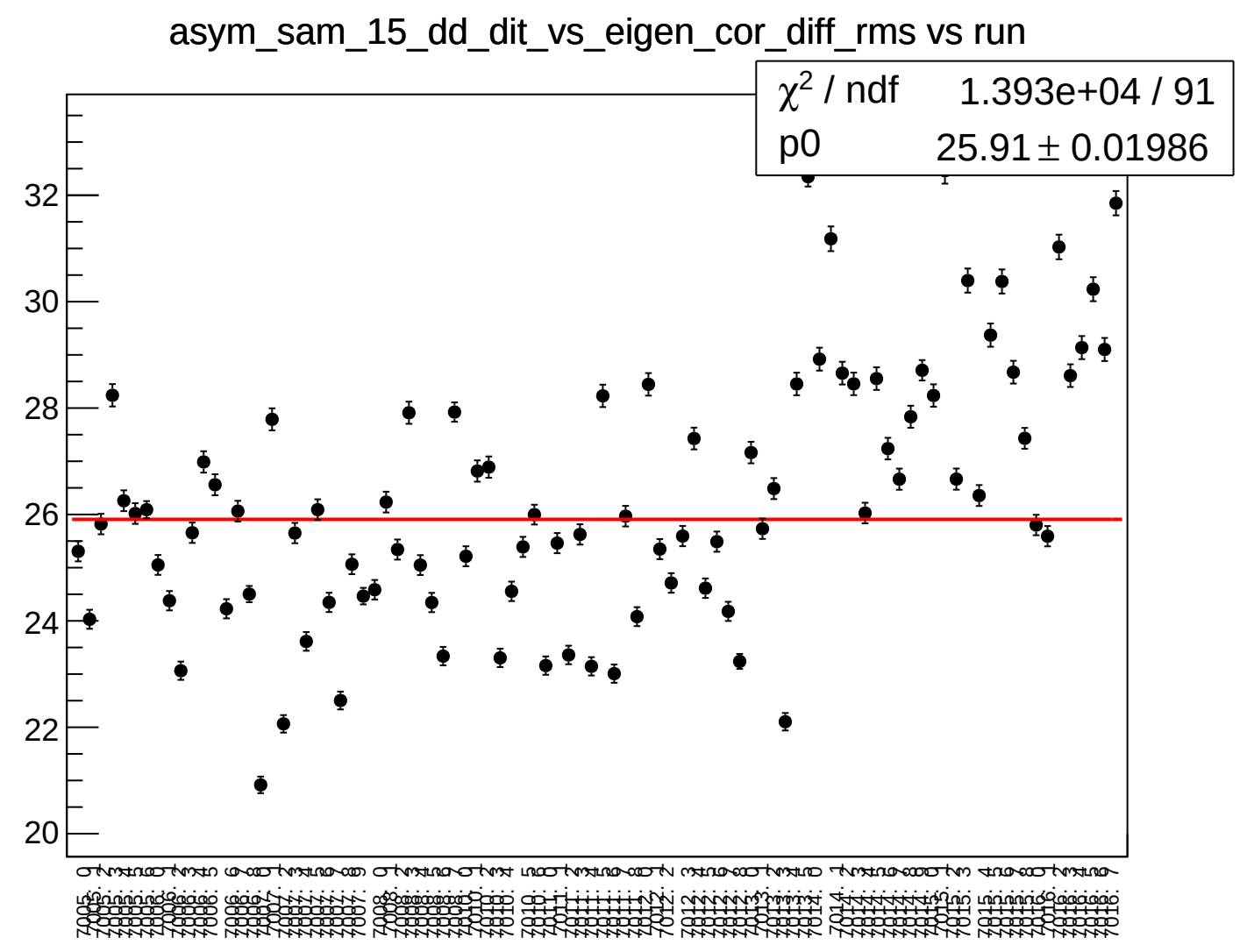

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.91 / 91
p0 −0.001784 ± 0.02809
pull
Entries 92
Mean 4186
Std Dev 0

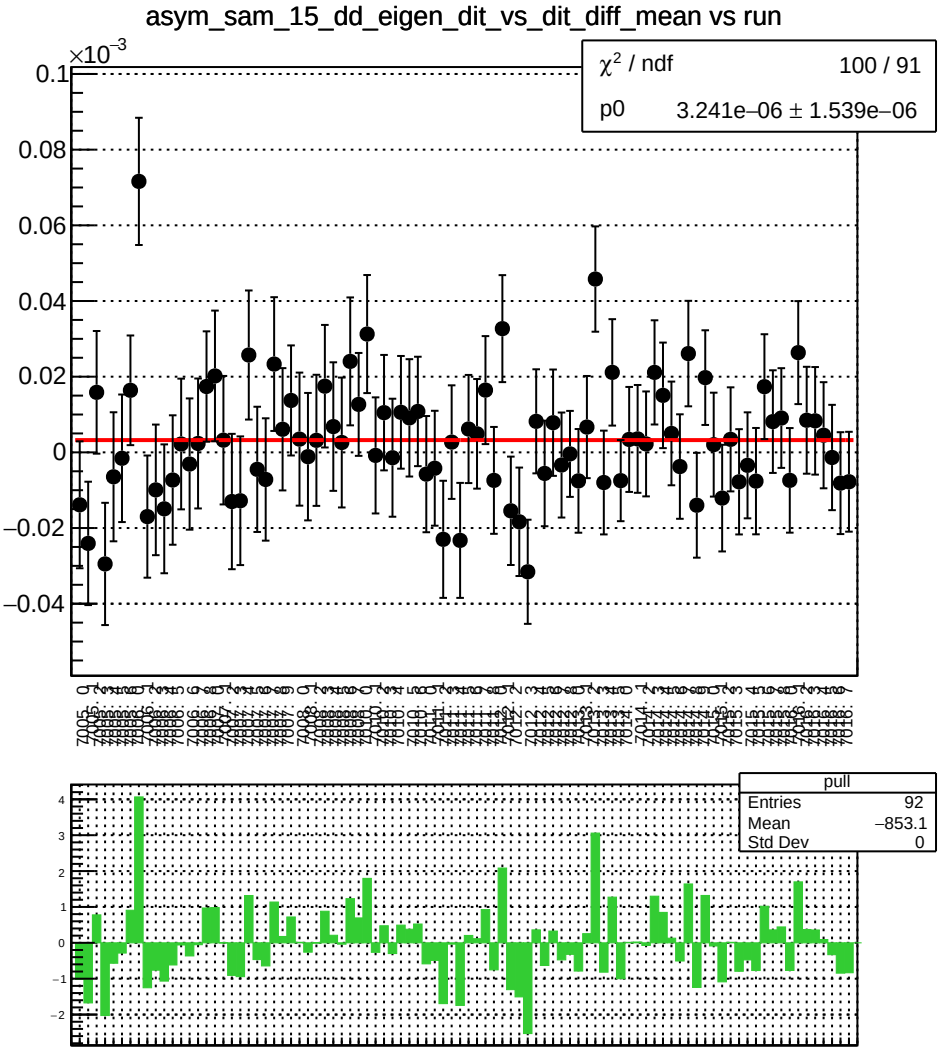

pull1D
Entries 92
Mean −0.0006627
Std Dev 0.9261

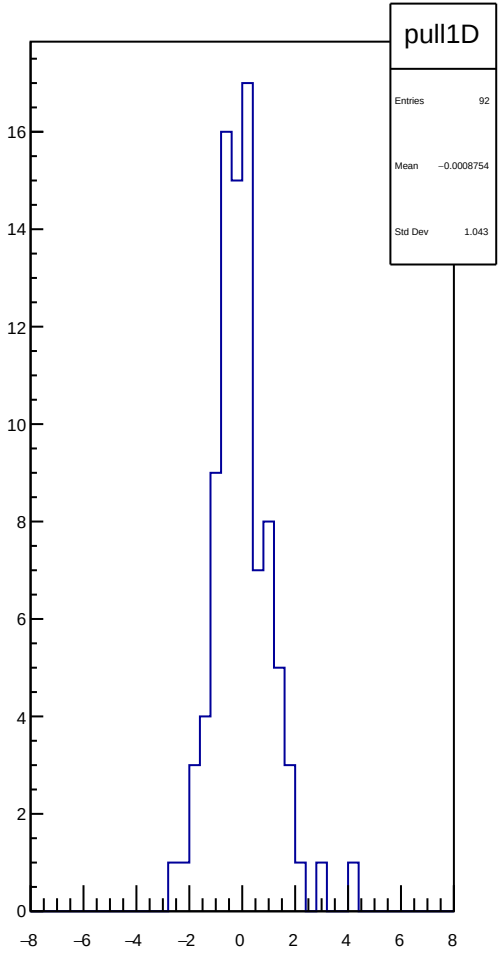

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.393e+04 / 91
p0 25.91 ± 0.01986
32
30
28
26
24
22
20

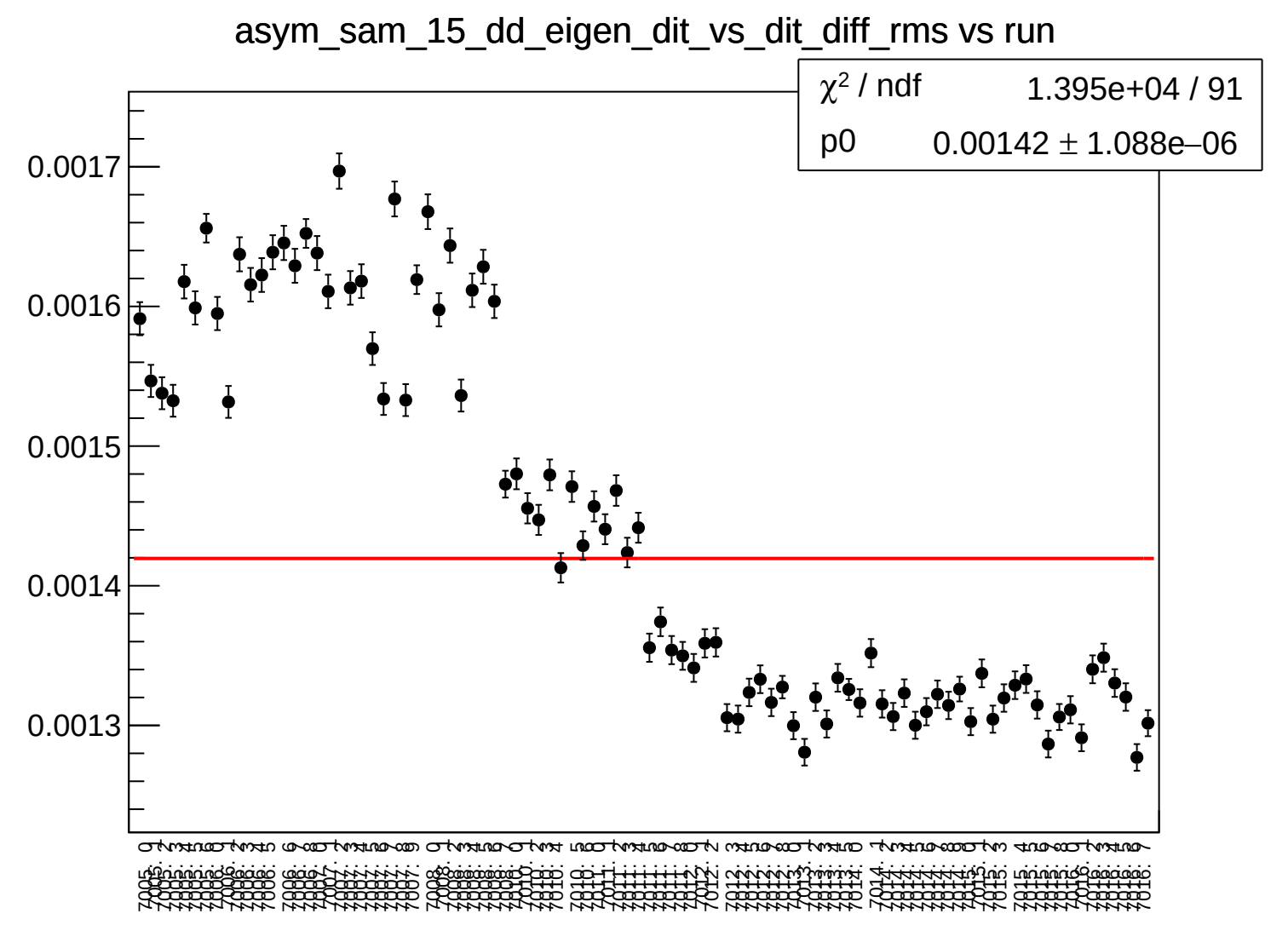

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.91 / 91
p0 −0.001784 ± 0.02809
pull
Entries 92
Mean 4186
Std Dev 0

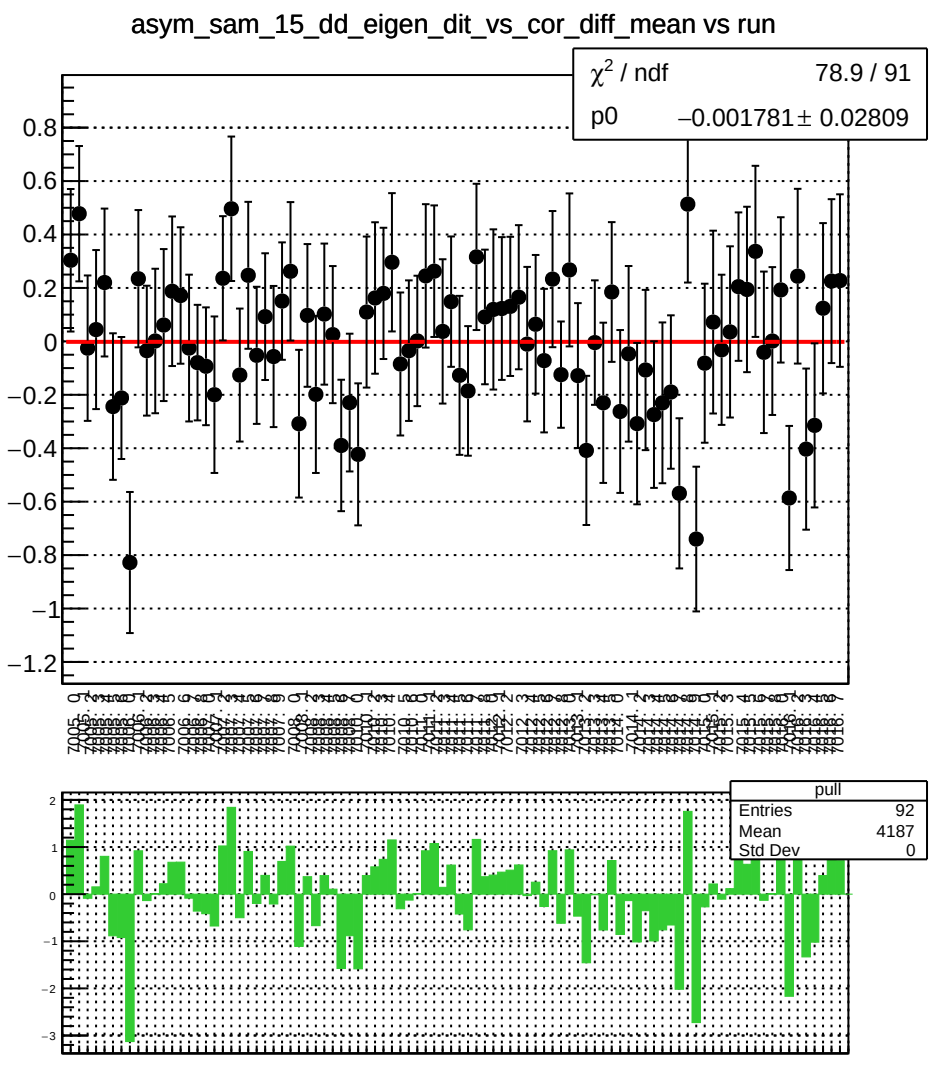

pull1D
Entries 92
Mean −0.0006627
Std Dev 0.9261

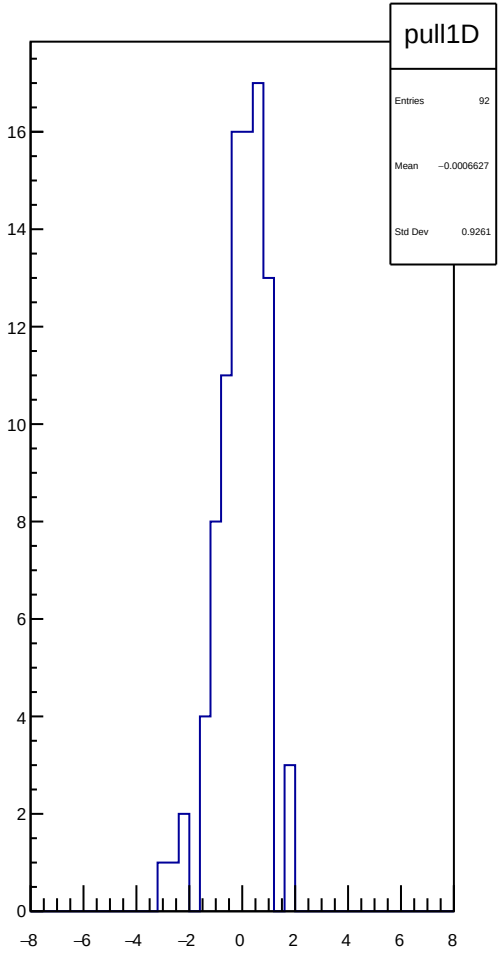

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.393e+04 / 91
p0 25.91 ± 0.01986
32
30
28
26
24
22
20

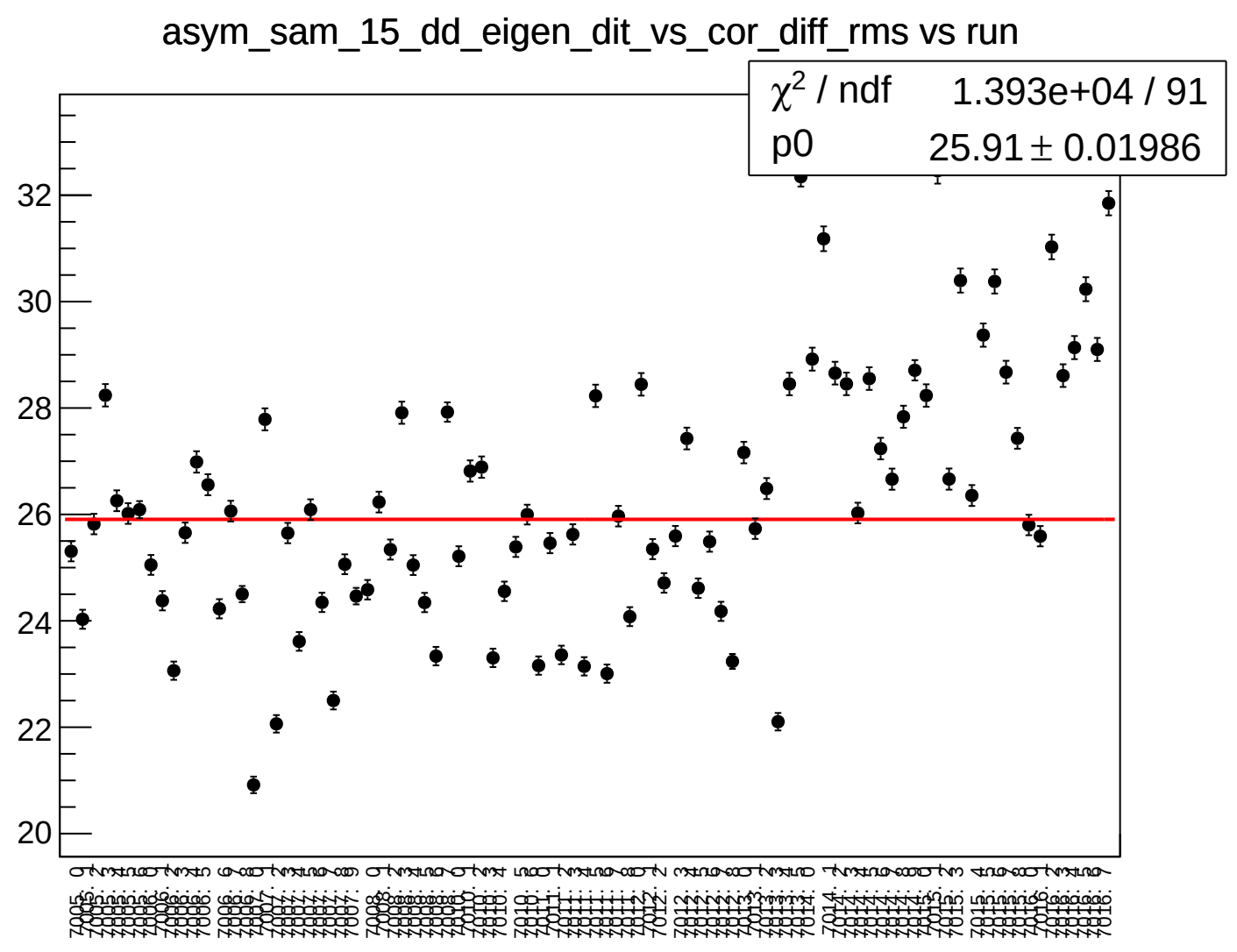

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 100 / 91
p0 3.241e−06 ± 1.539e−06
pull
Entries 92
Mean −853.1
Std Dev 0

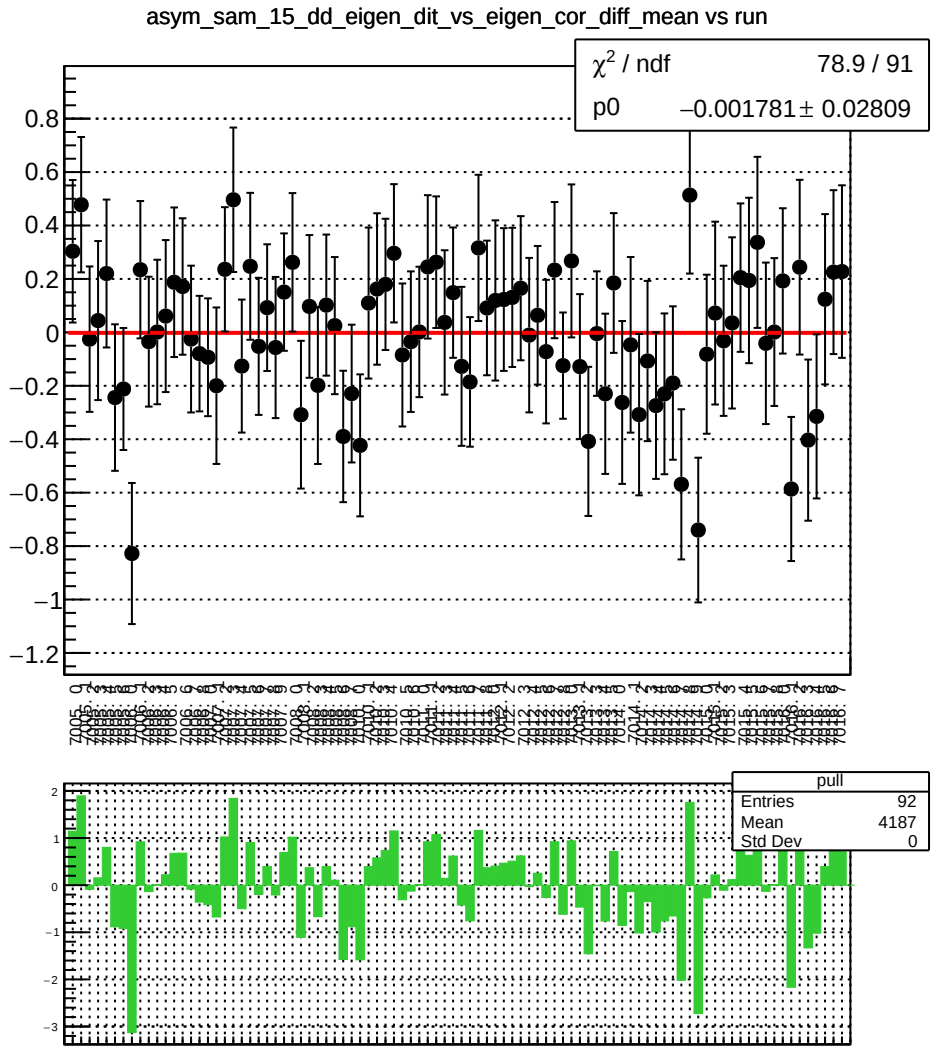

pull1D
Entries 92
Mean −0.0008754
Std Dev 1.043

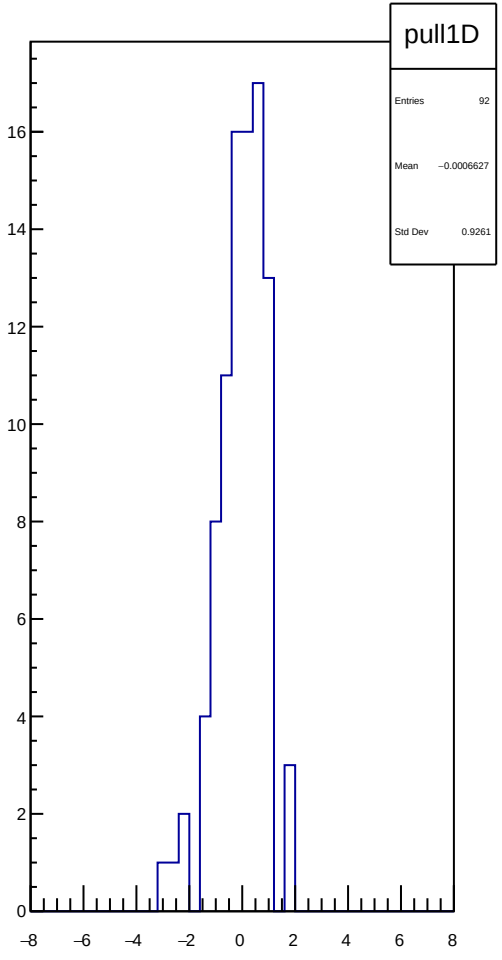

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.395e+04 / 91
p0 0.00142 ± 1.088e−06
0.0017
0.0016
0.0015
0.0014
0.0013

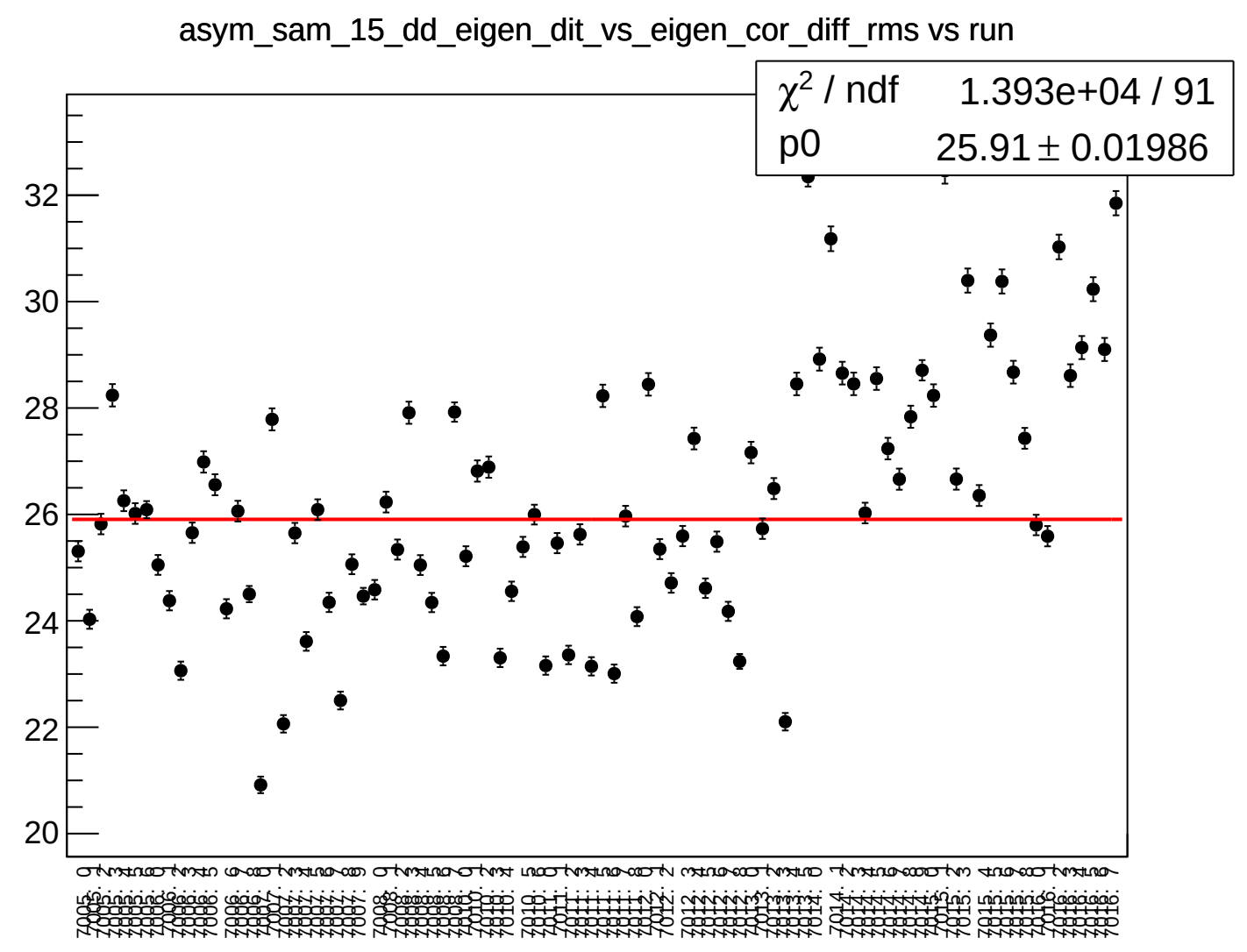

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.9 / 91
p0 −0.001781 ± 0.02809
pull
Entries 92
Mean 4187
Std Dev 0

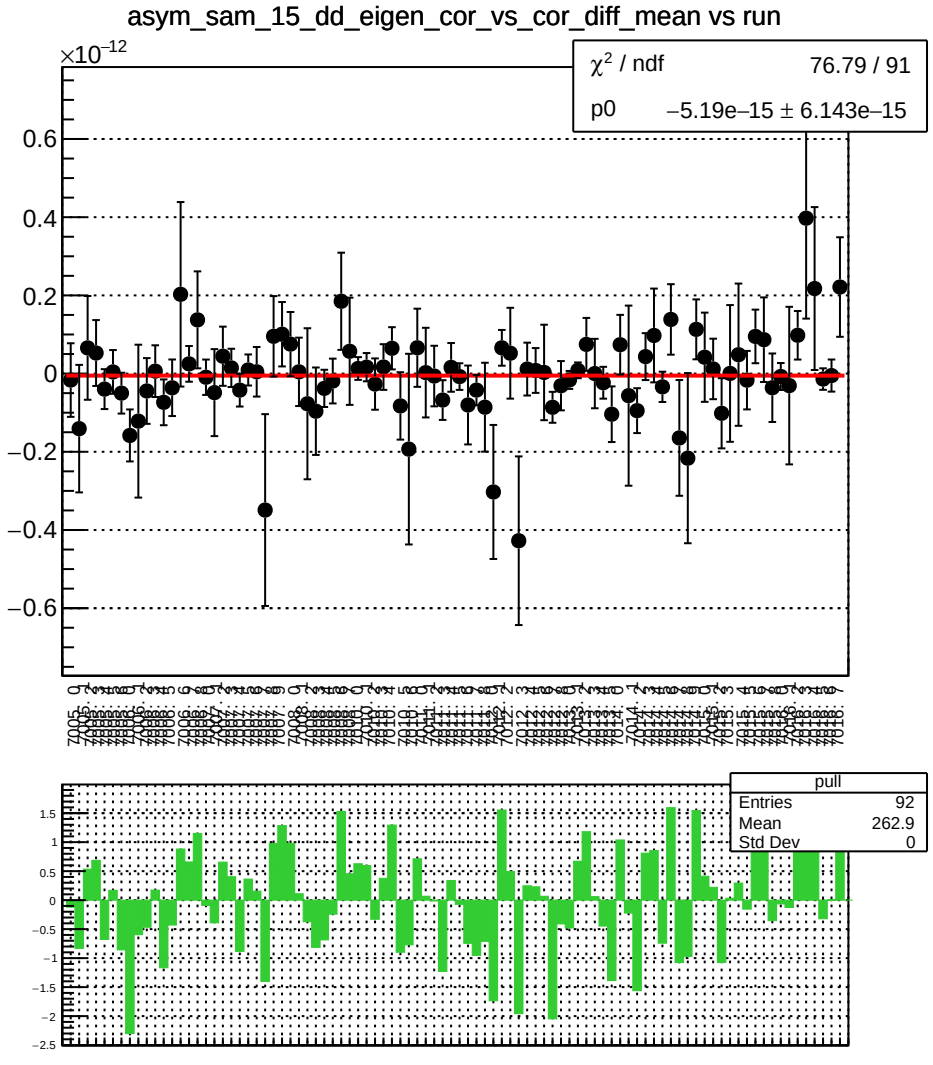

pull1D
Entries 92
Mean −0.0006627
Std Dev 0.9261

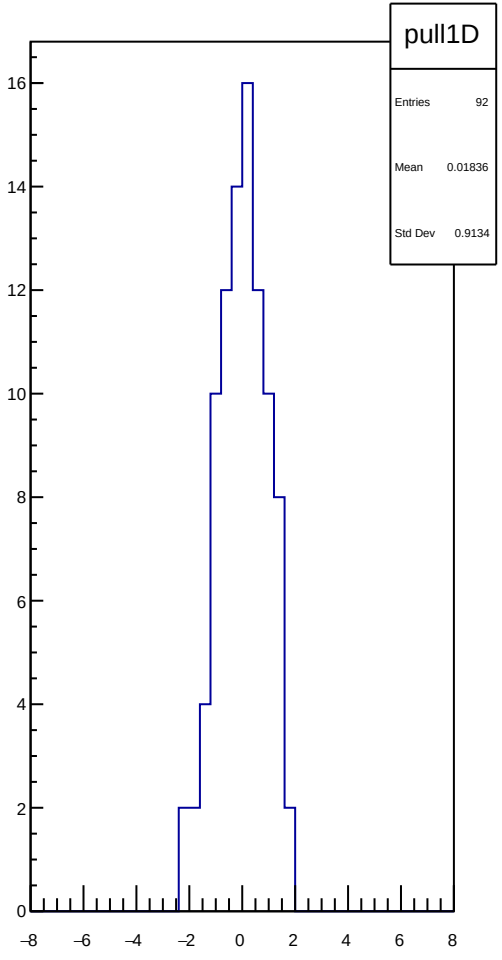

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.393e+04 / 91
p0 25.91 ± 0.01986
32
30
28
26
24
22
20

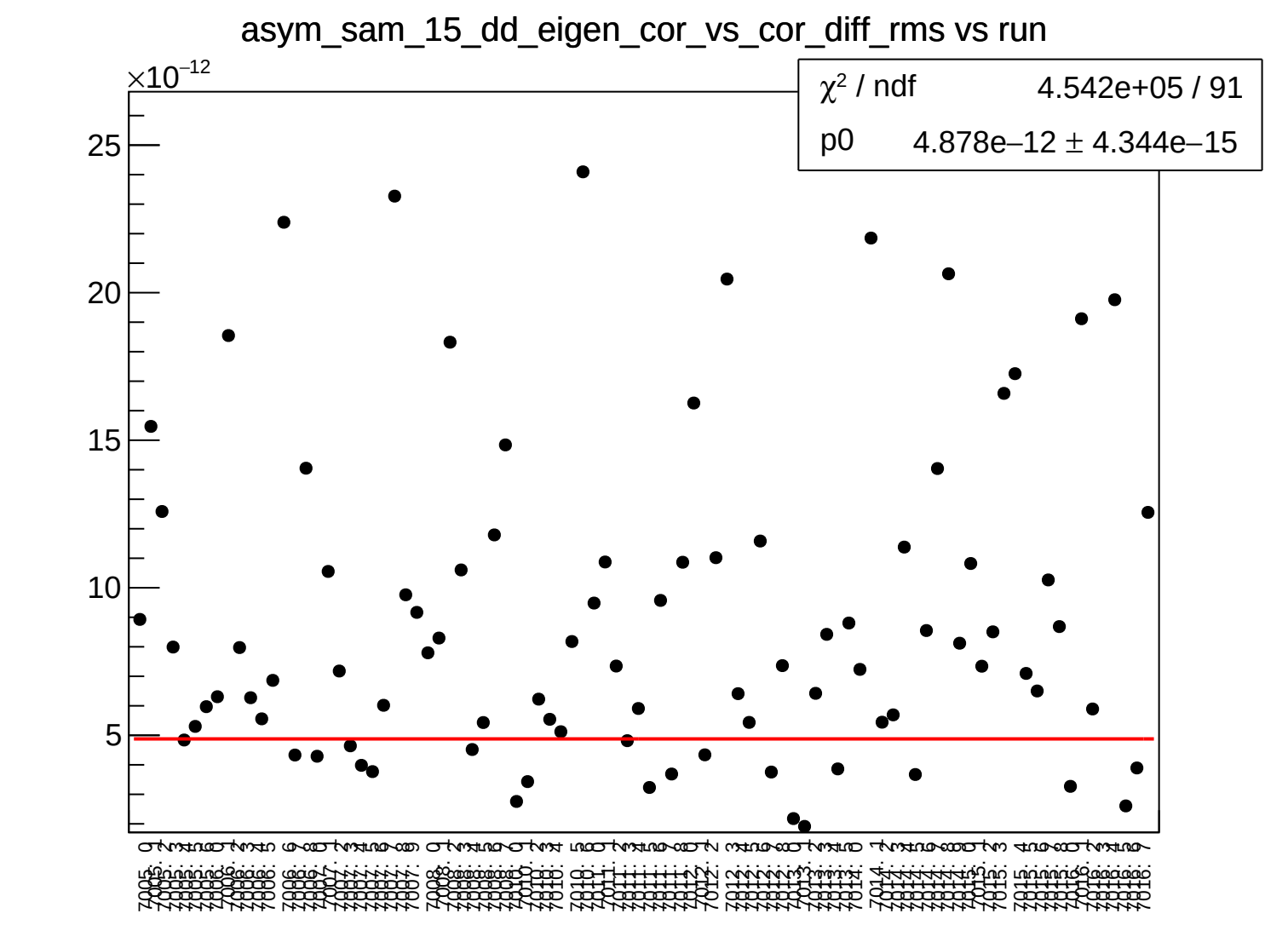

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.9 / 91
p0 −0.001781 ± 0.02809
pull
Entries 92
Mean 4187
Std Dev 0

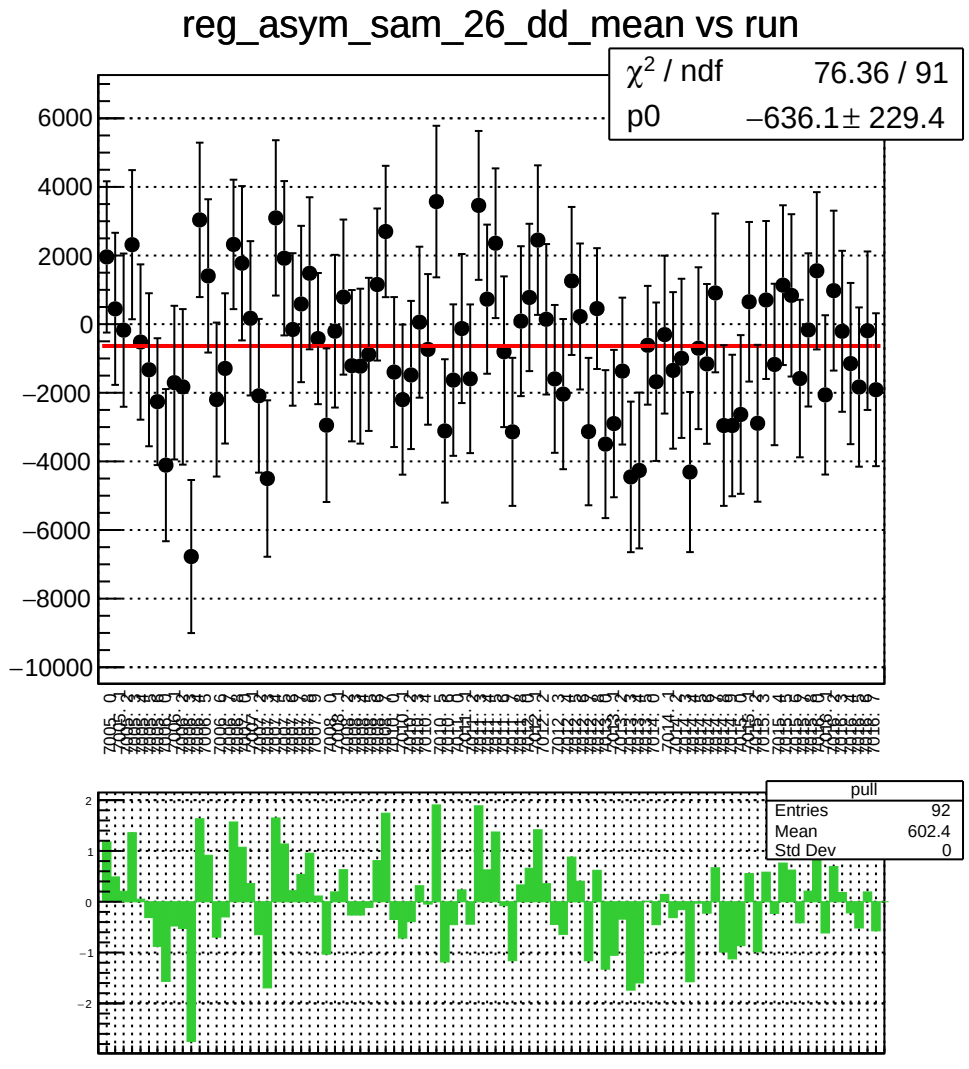

pull1D
Entries 92
Mean −0.0006627
Std Dev 0.9261

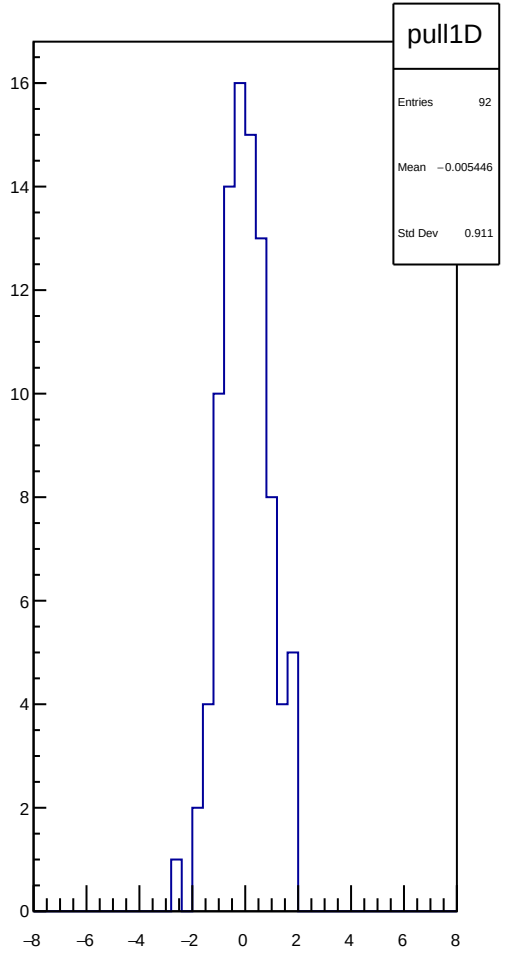

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.393e+04 / 91
p0 25.91 ± 0.01986
32
30
28
26
24
22
20

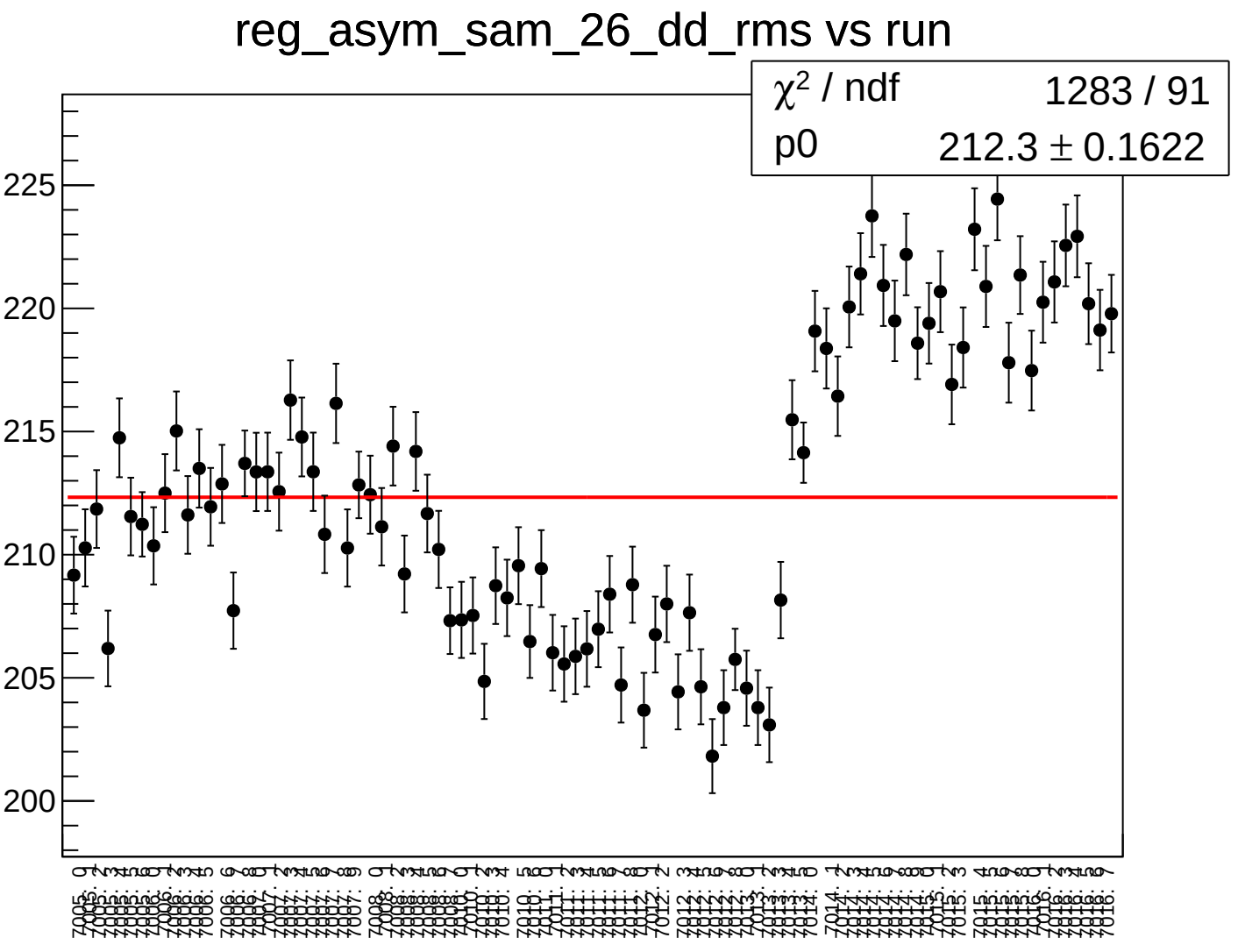

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.79 / 91
p0 −5.19e−15 ± 6.143e−15
pull
Entries 92
Mean 262.9
Std Dev 0

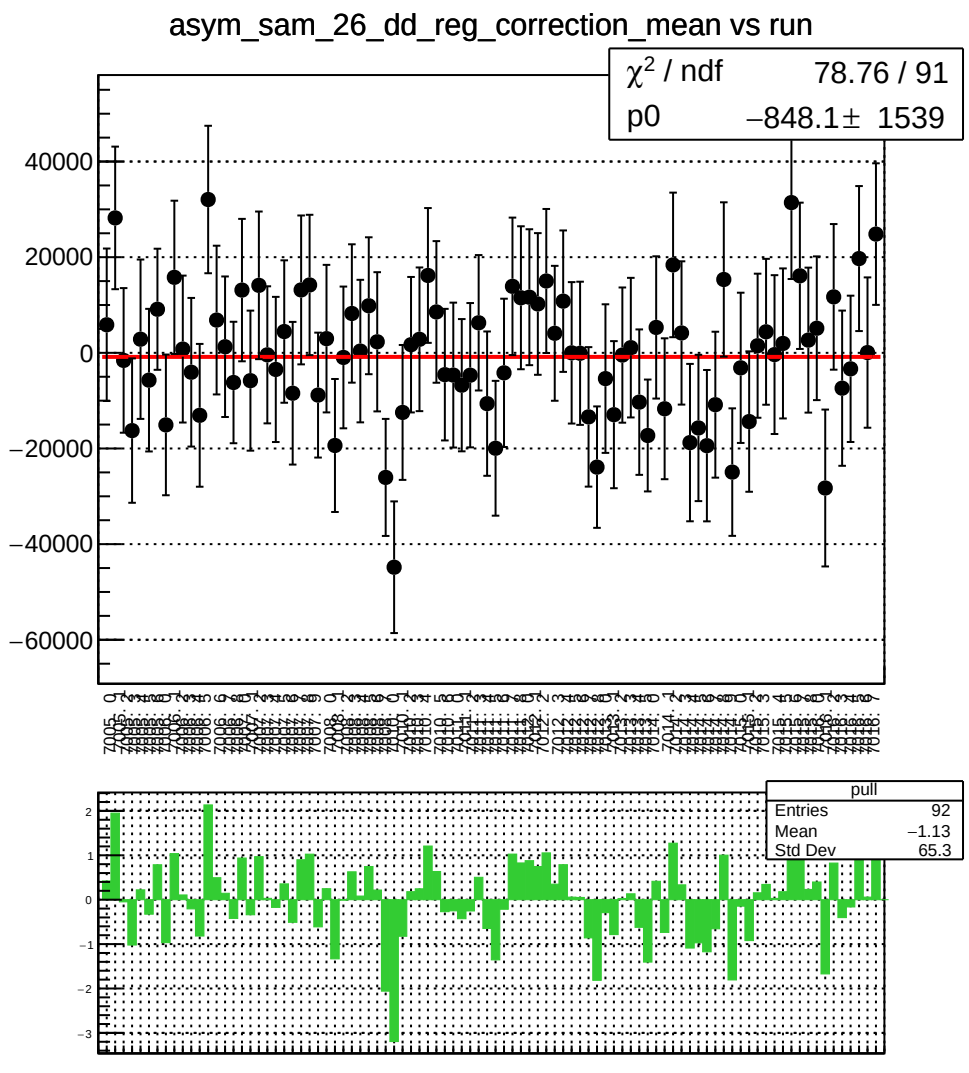

pull1D
Entries 92
Mean 0.01836
Std Dev 0.9134

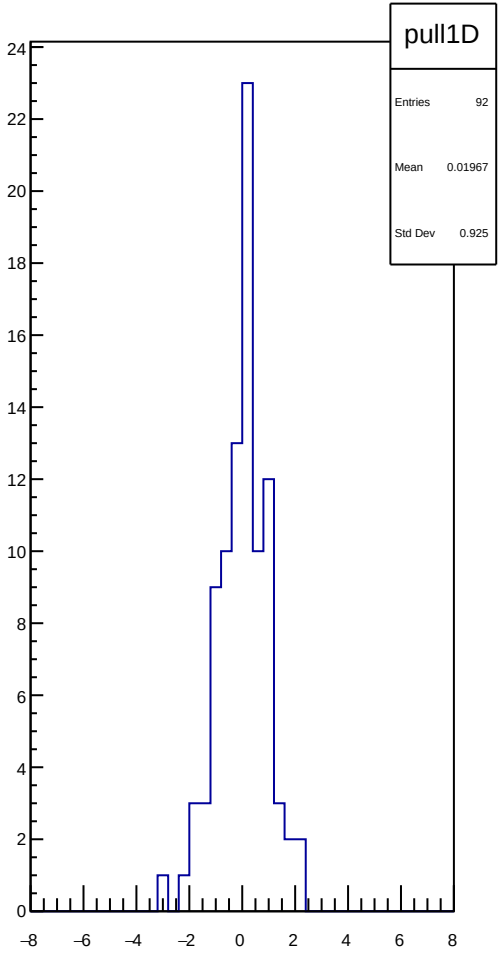

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.542e+05 / 91
p0 4.878e−12 ± 4.344e−15
25
20
15
10
5

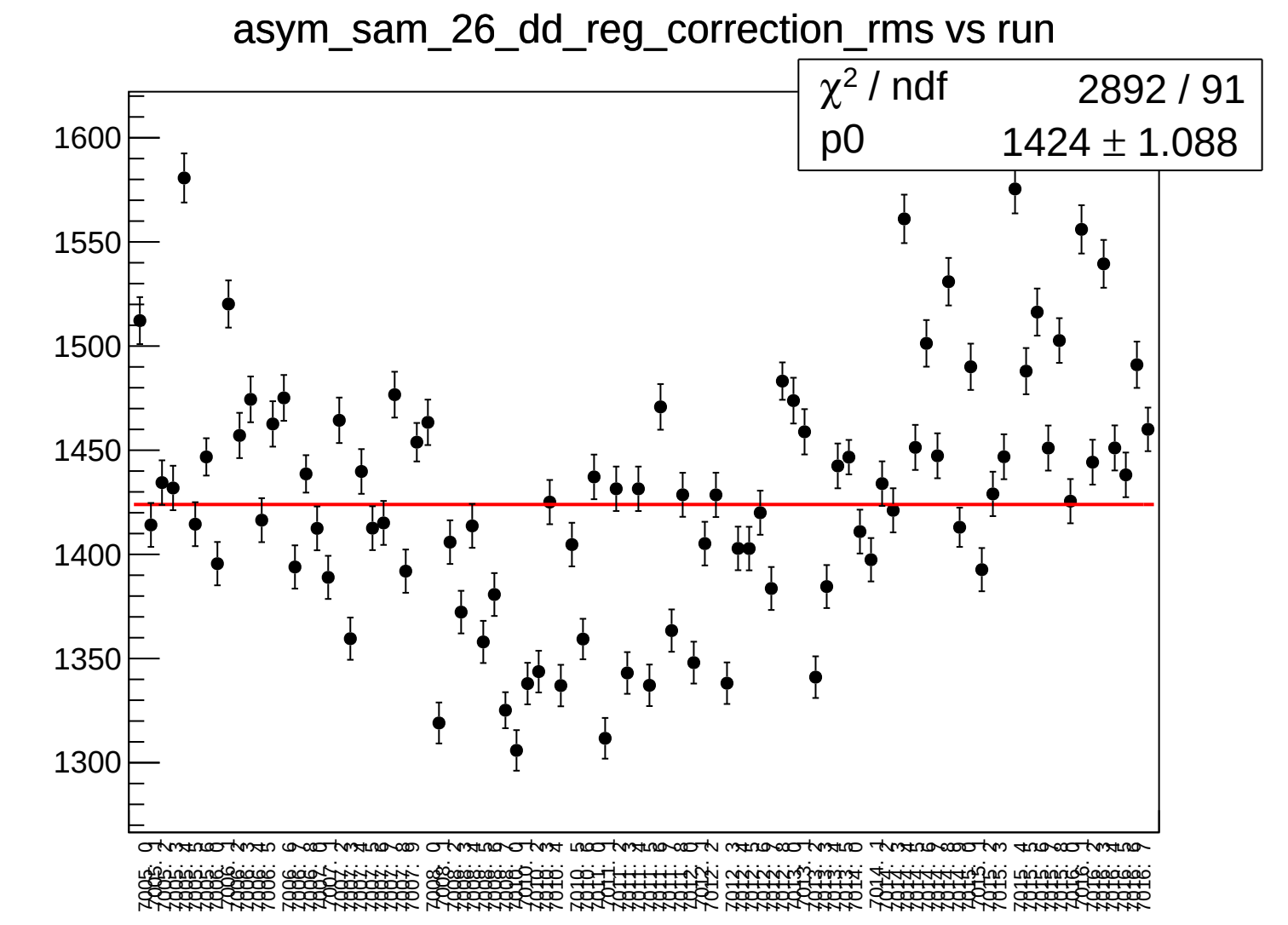

reg_asym_sam_26_dd_mean vs run
χ² / ndf 76.36 / 91
p0 −636.1± 229.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 92
Mean 602.4
Std Dev 0
2
1
0
−1
−2

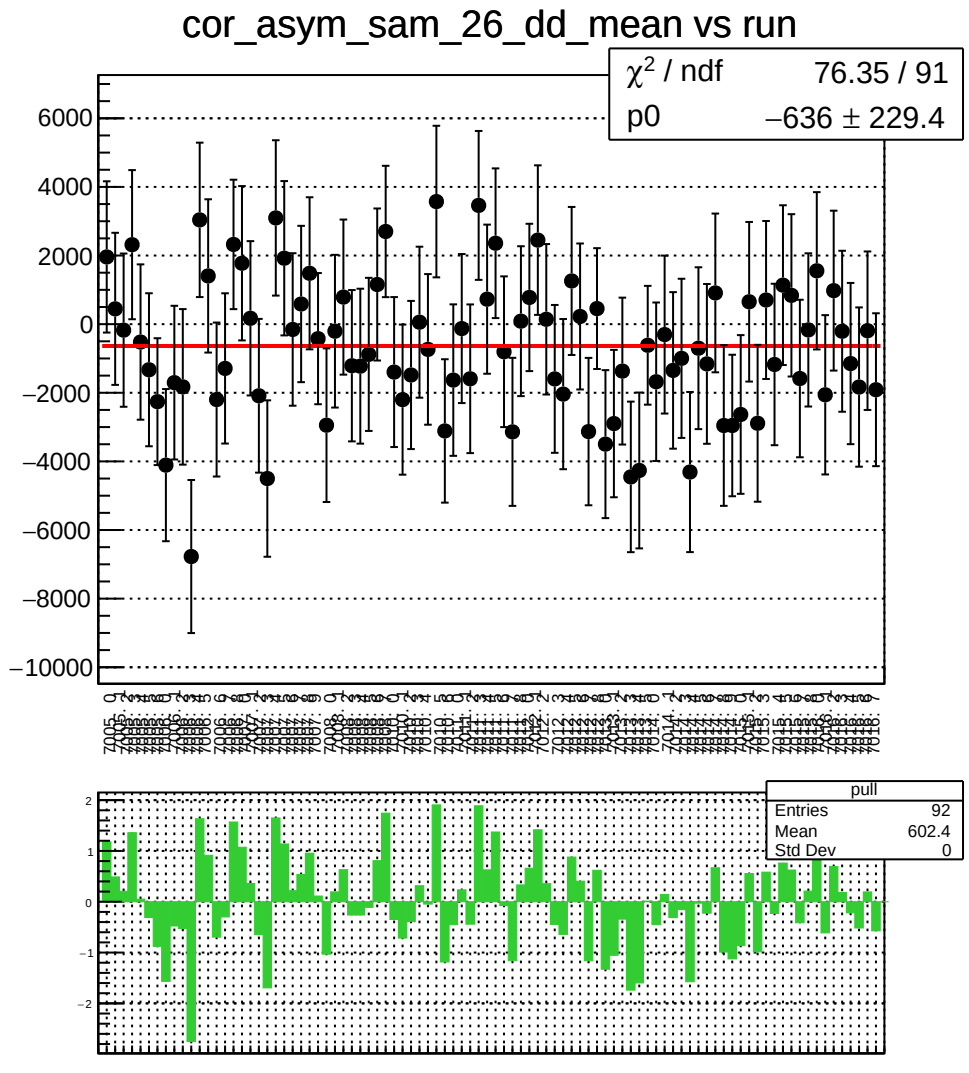

pull1D
Entries 92
Mean −0.005446
Std Dev 0.911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

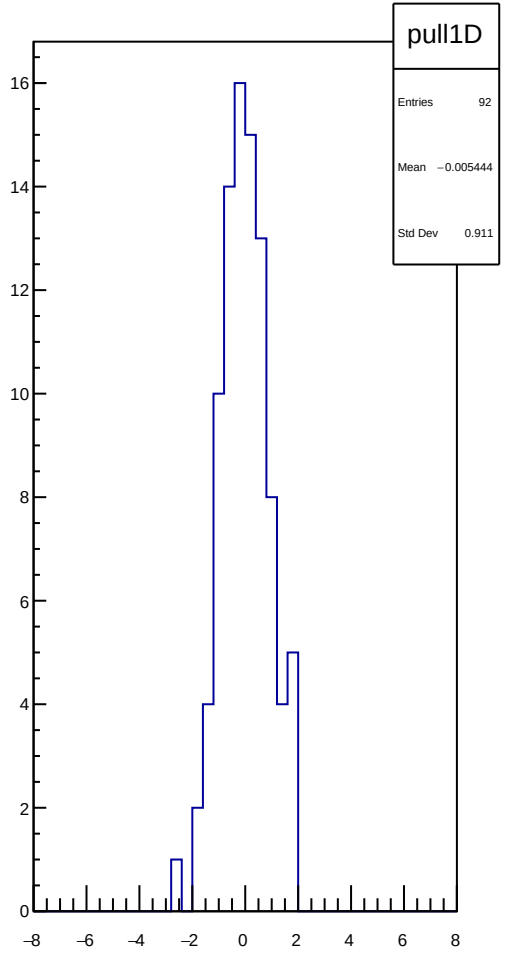

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1283 / 91
p0 212.3 ± 0.1622
225
220
215
210
205
200

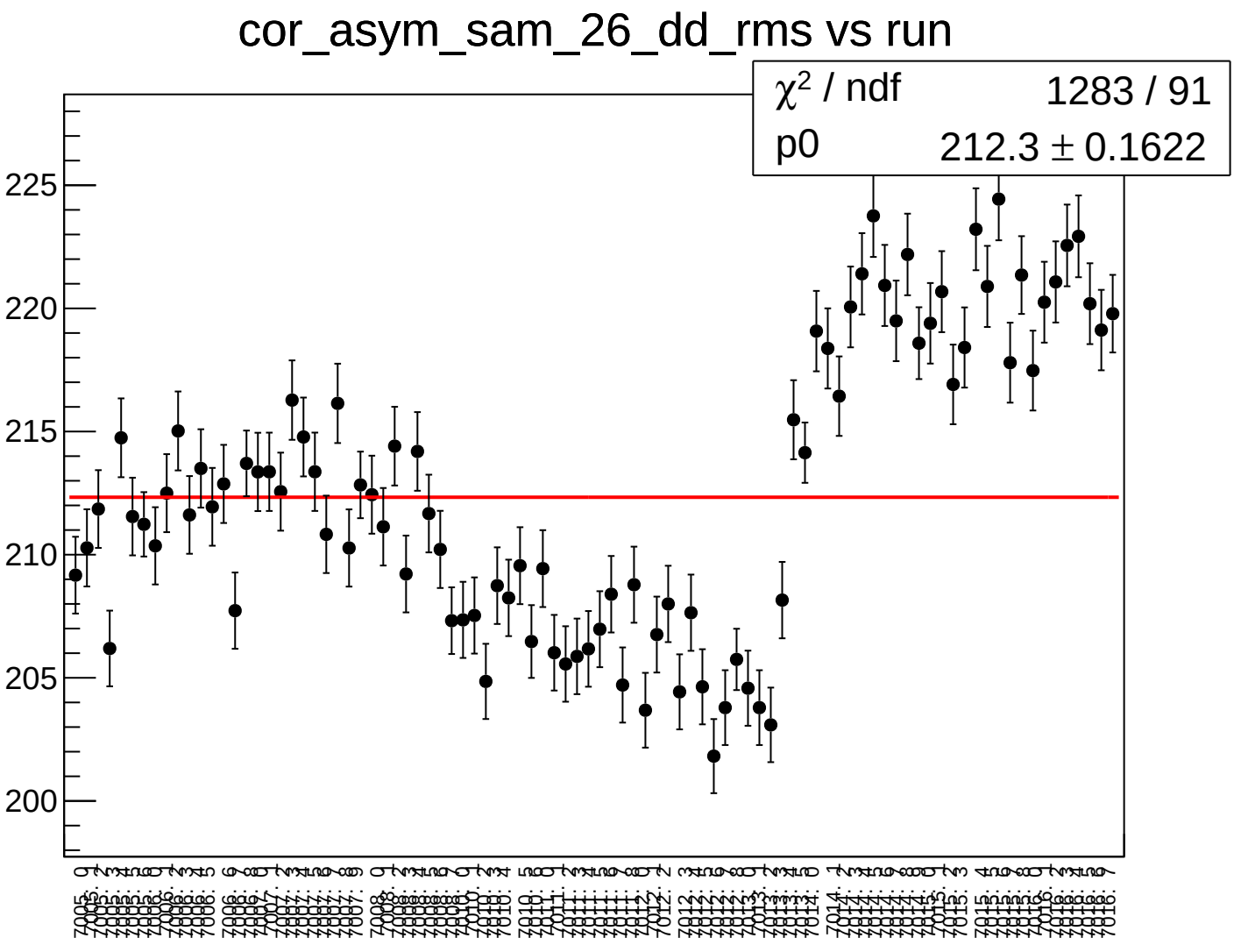

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 78.76 / 91
p0 −848.1± 1539
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1.13
Std Dev 65.3
2
1
0
−1
−2
−3

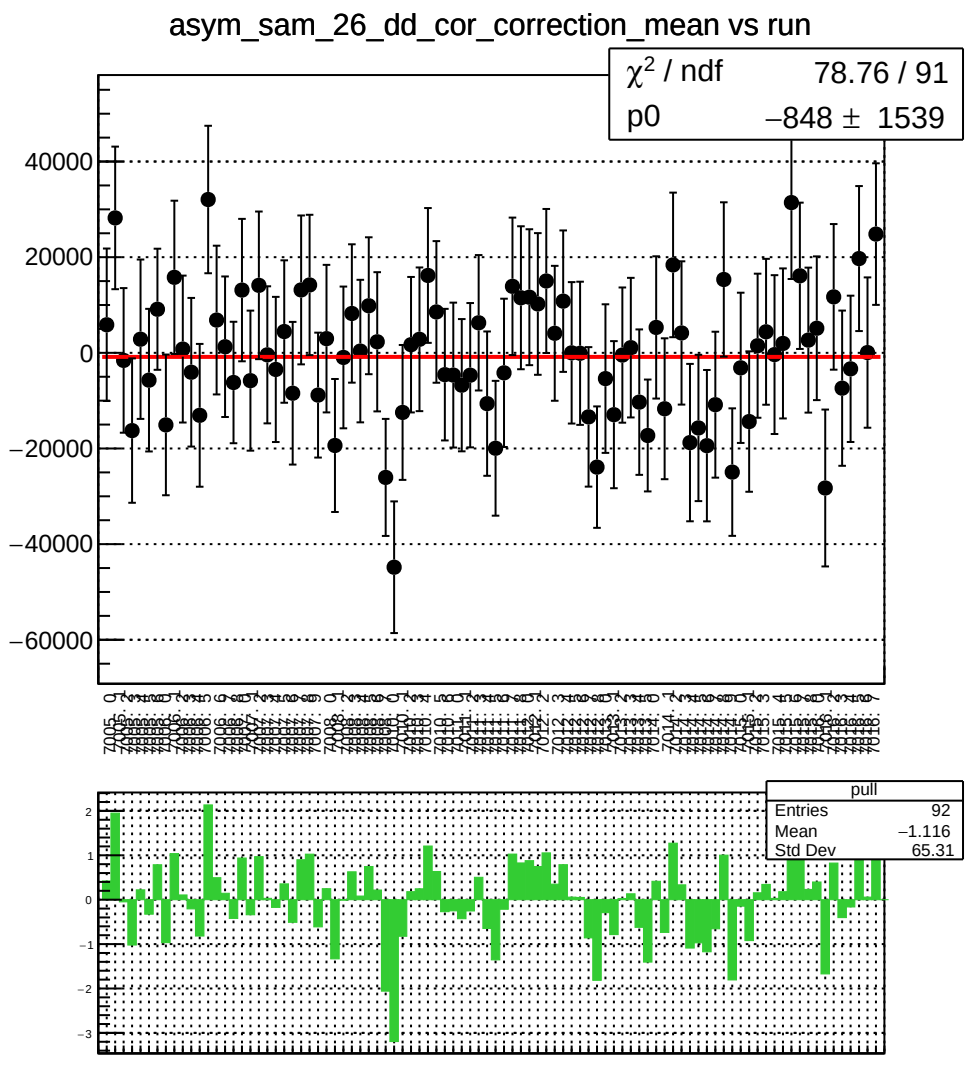

pull1D
Entries 92
Mean 0.01967
Std Dev 0.925
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

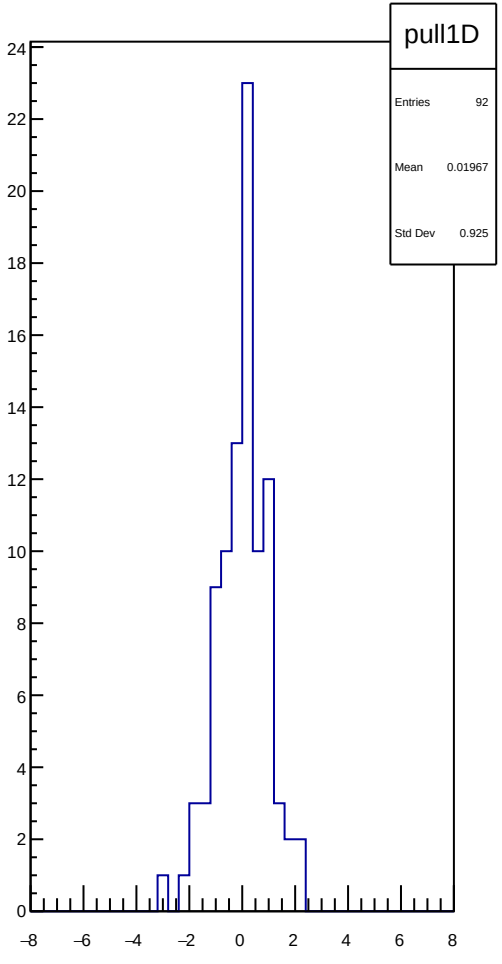

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 2892 / 91
p0 1424 ± 1.088
1600
1550
1500
1450
1400
1350
1300

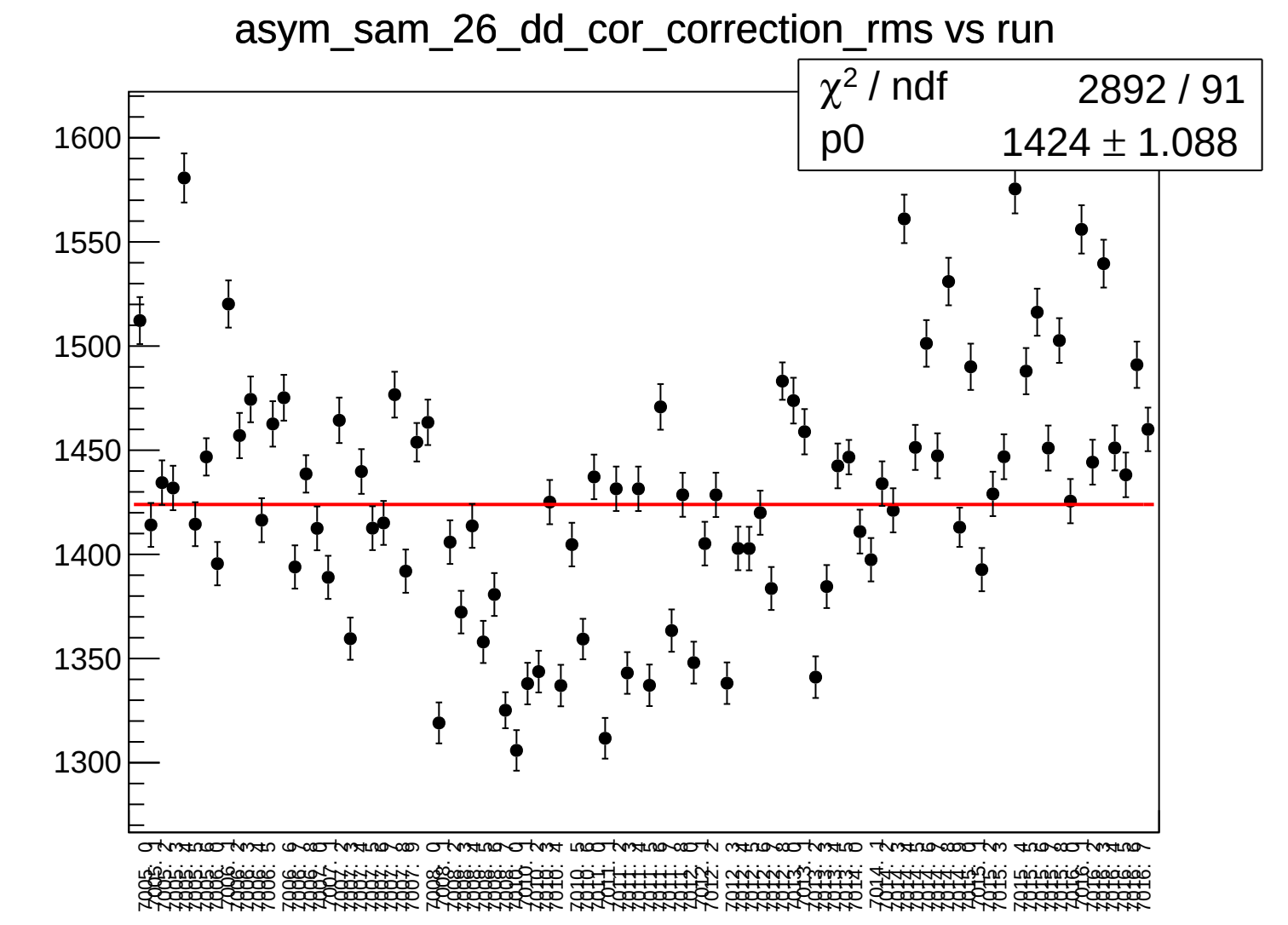

cor_asym_sam_26_dd_mean vs run
χ² / ndf 76.35 / 91
p0 −636 ± 229.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 92
Mean 602.4
Std Dev 0
2
1
0
−1
−2

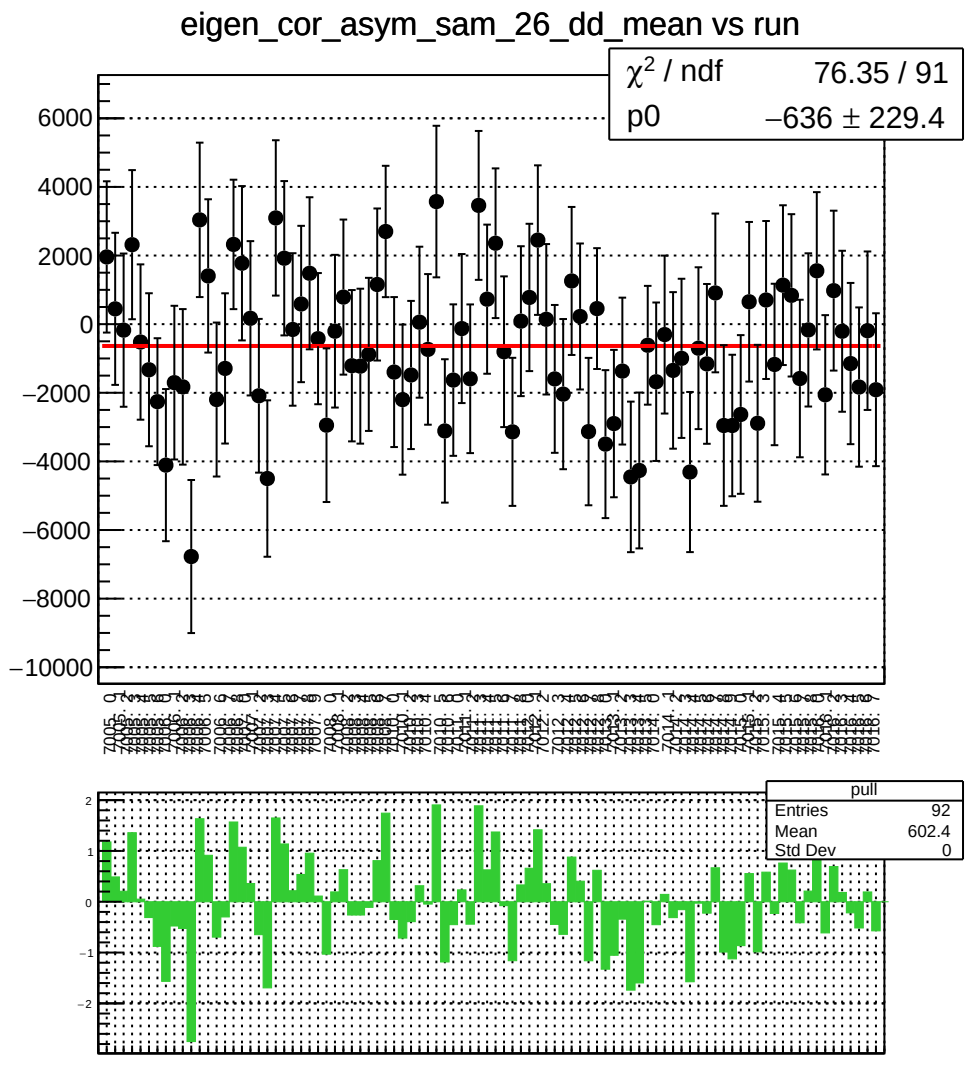

pull1D
Entries 92
Mean −0.005444
Std Dev 0.911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

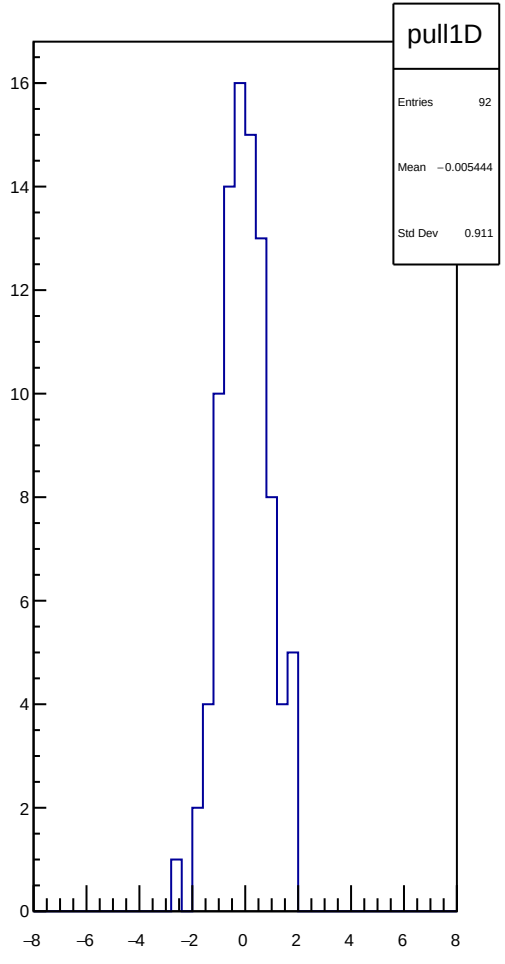

cor_asym_sam_26_dd_rms vs run
χ² / ndf 1283 / 91
p0 212.3 ± 0.1622
225
220
215
210
205
200

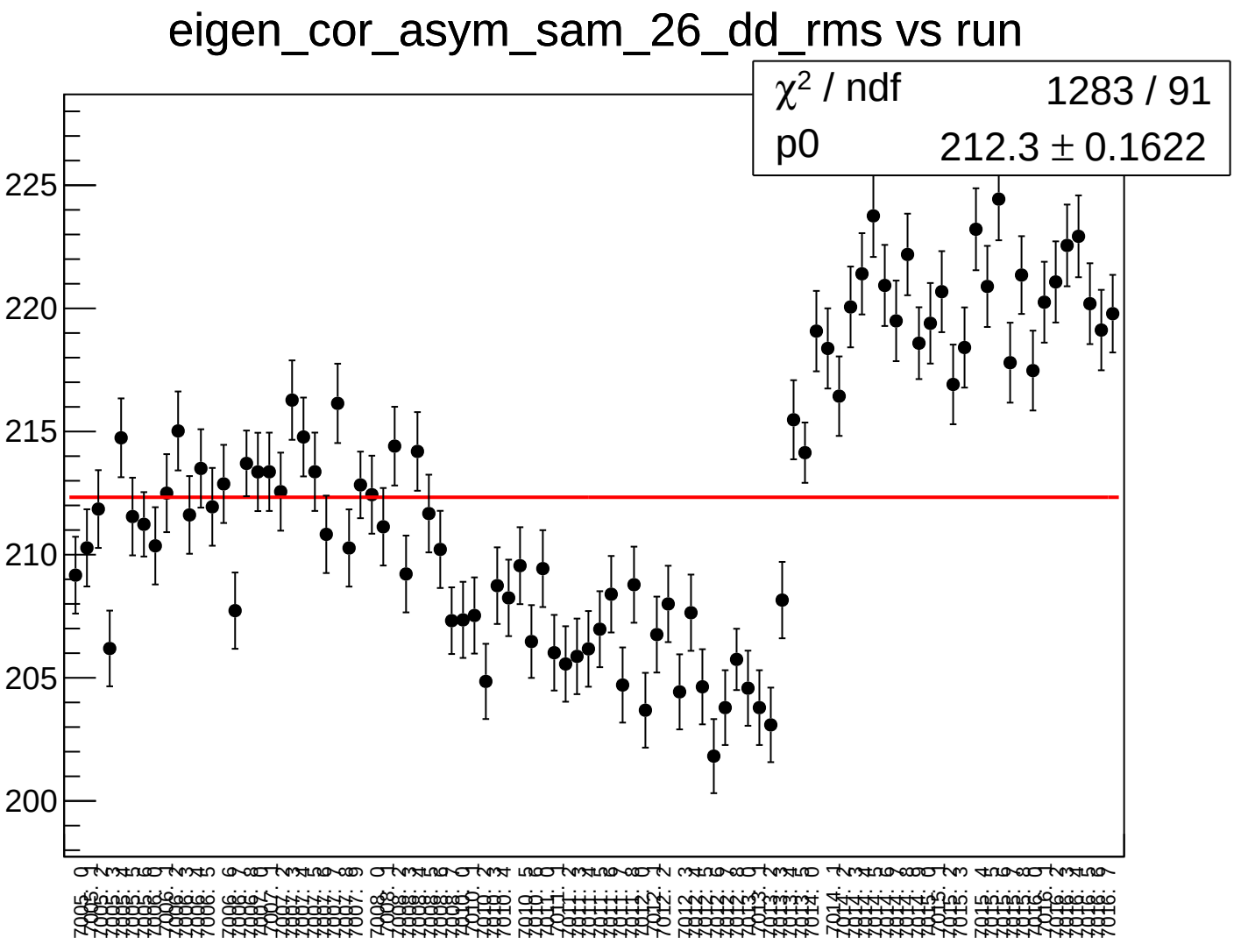

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 78.76 / 91
p0 −848 ± 1539
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1.116
Std Dev 65.31
2
1
0
−1
−2
−3

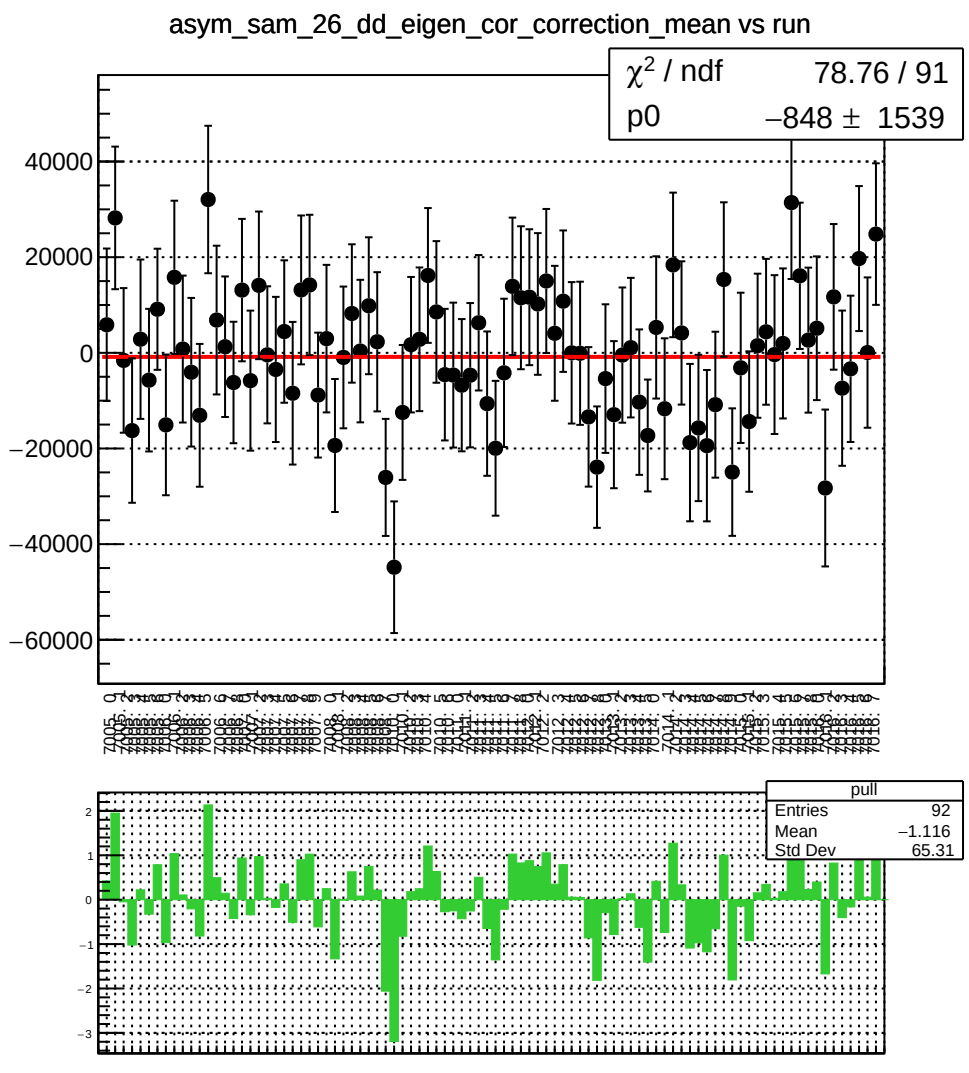

pull1D
Entries 92
Mean 0.01967
Std Dev 0.925
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

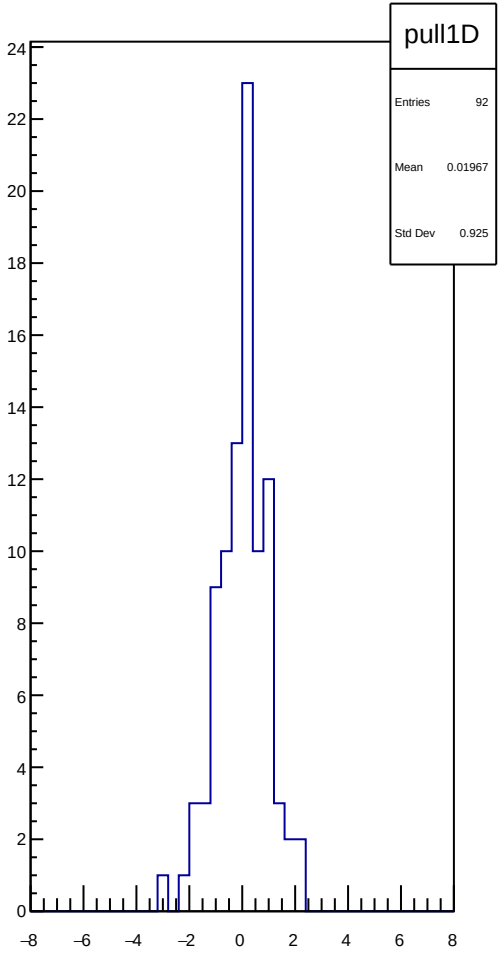

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 2892 / 91
p0 1424 ± 1.088
1600
1550
1500
1450
1400
1350
1300

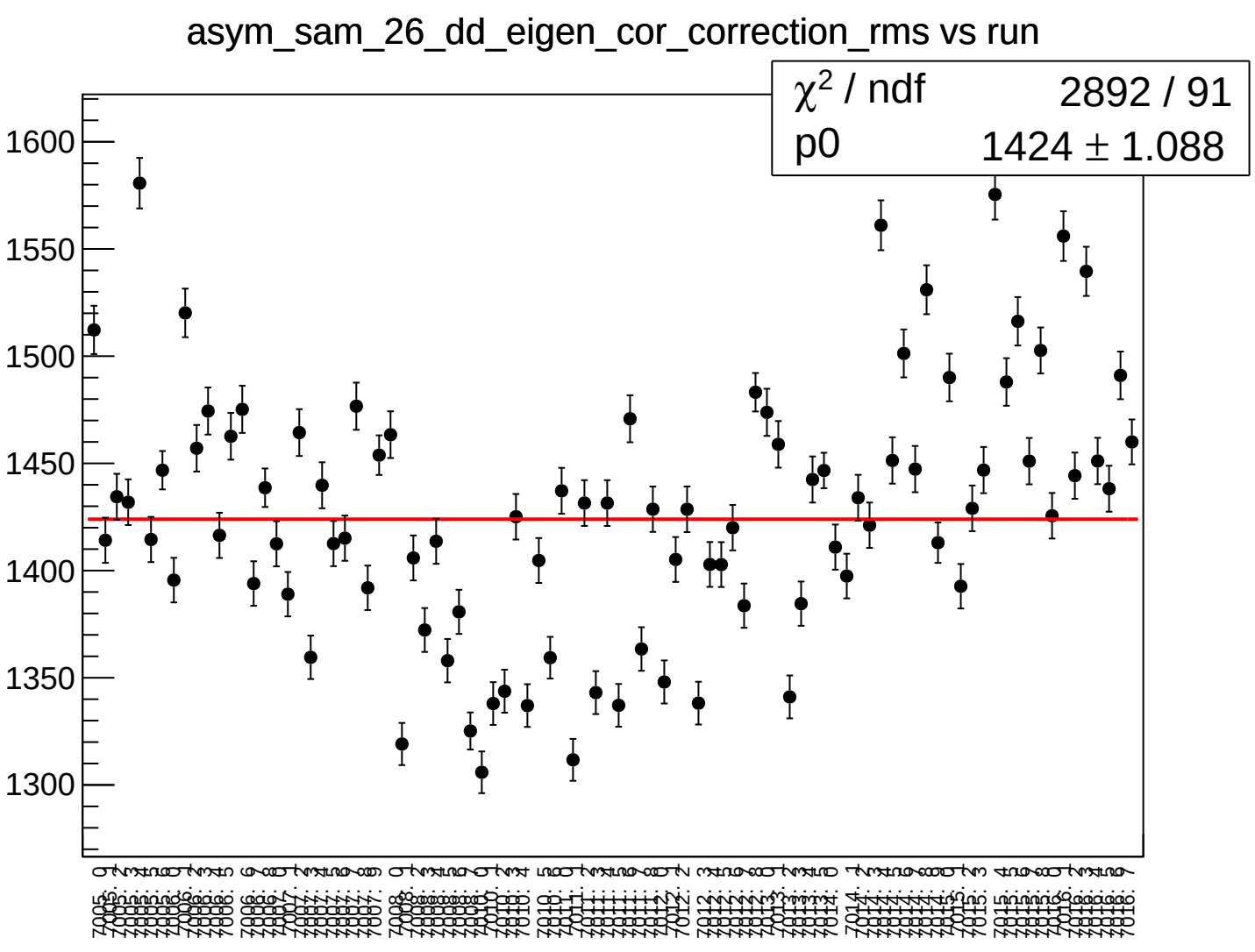

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 76.35 / 91
p0 −636 ± 229.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 92
Mean 602.4
Std Dev 0
2
1
0
−1
−2

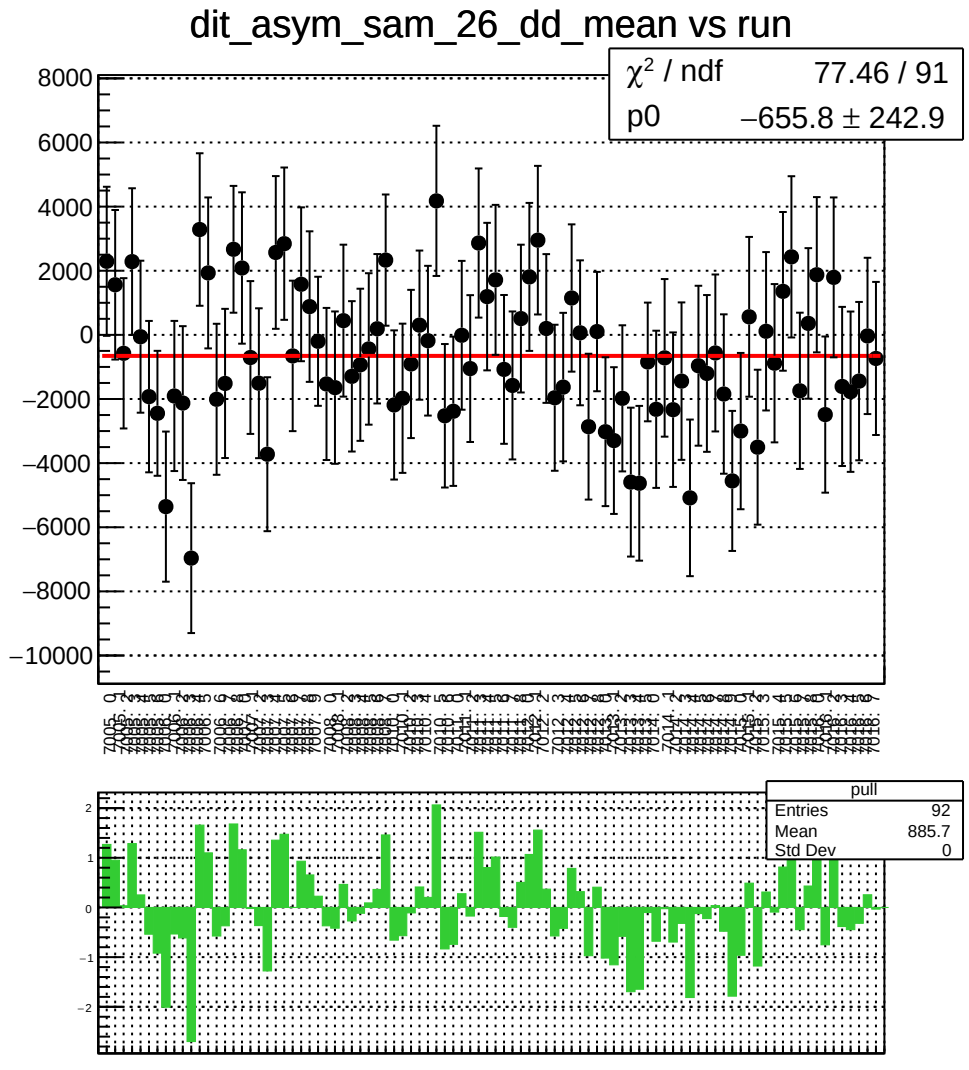

pull1D
Entries 92
Mean −0.005444
Std Dev 0.911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

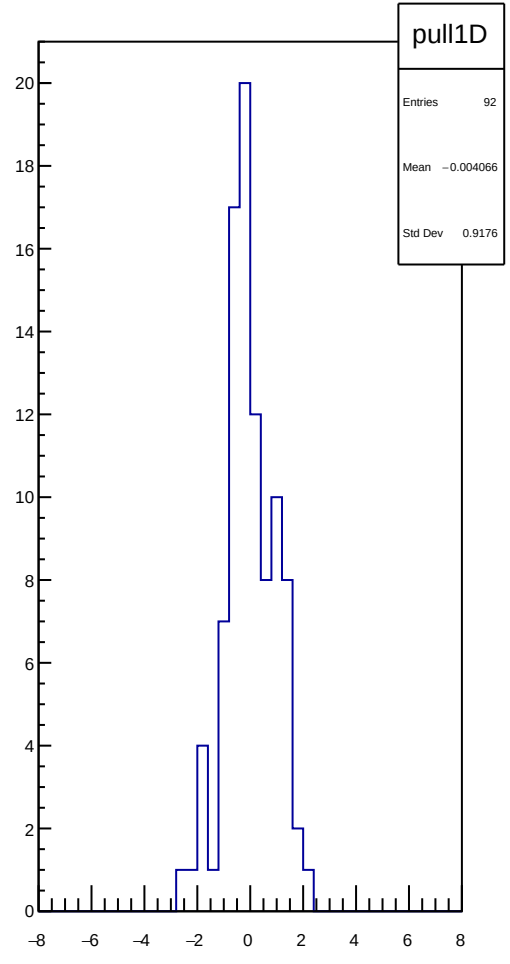

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 1283 / 91
p0 212.3 ± 0.1622
225
220
215
210
205
200

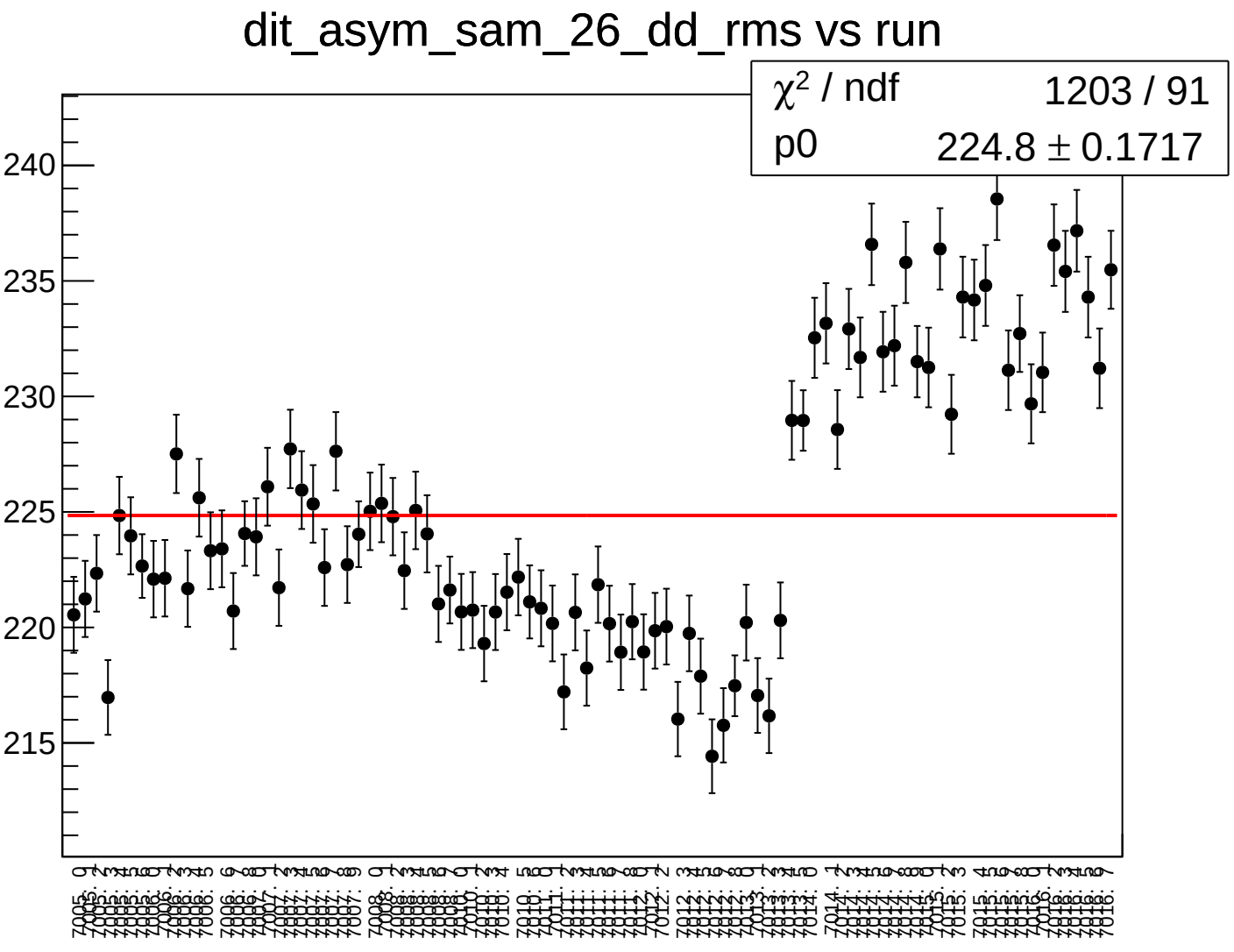

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.76 / 91
p0 −848 ± 1539
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −1.116
Std Dev 65.31
2
1
0
−1
−2
−3

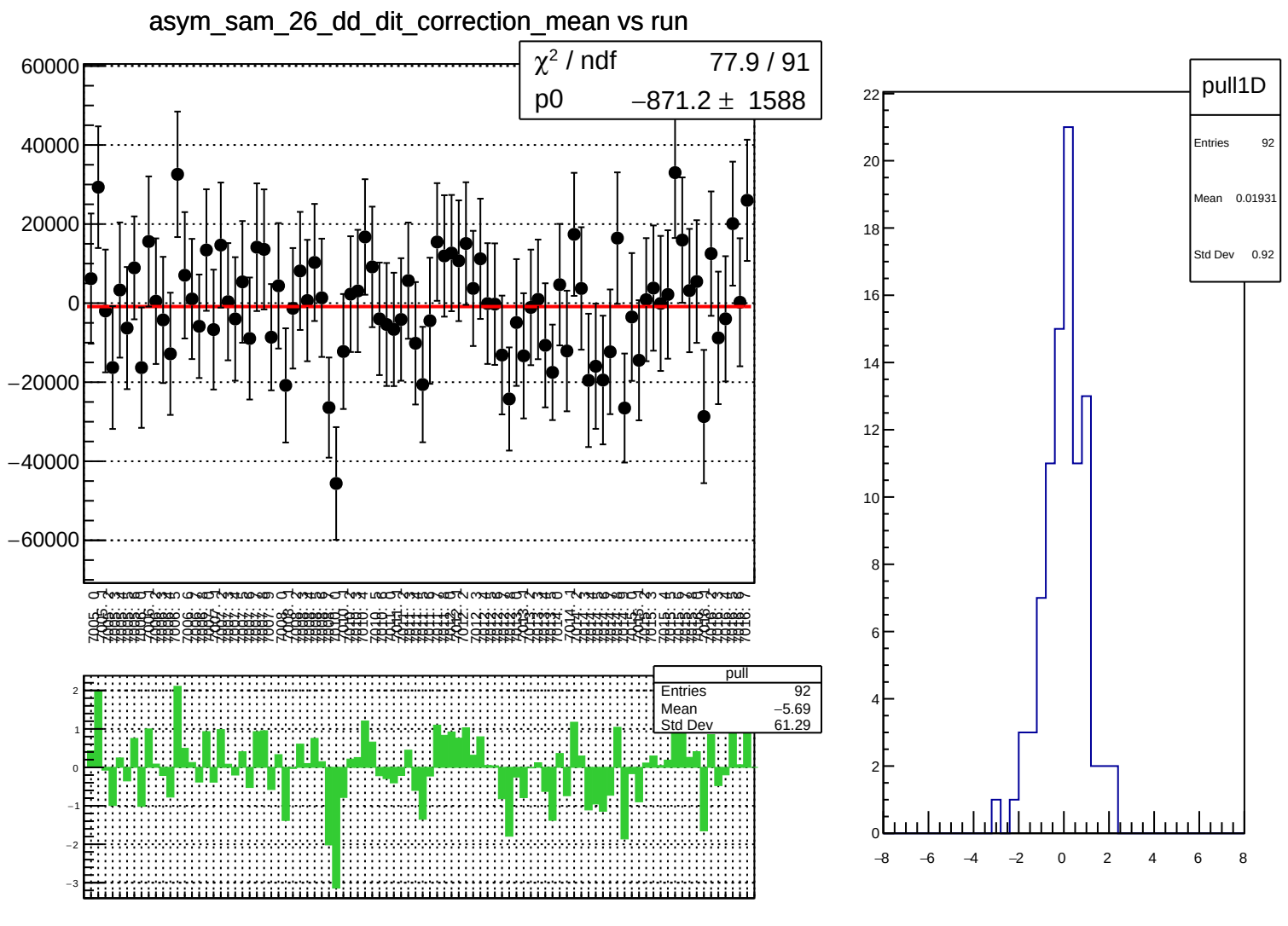

pull1D
Entries 92
Mean 0.01967
Std Dev 0.925
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

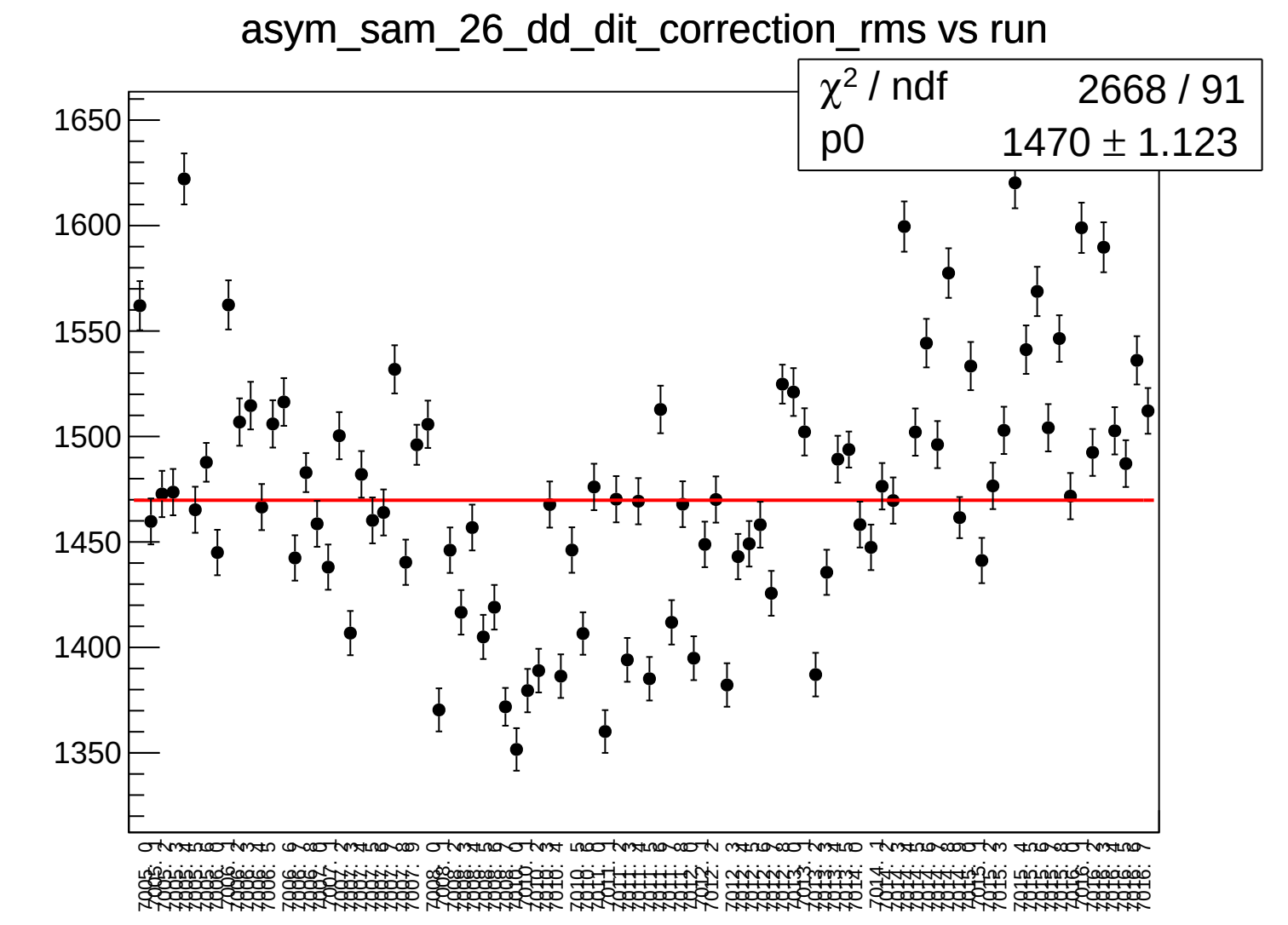

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2892 / 91
p0 1424 ± 1.088
1600
1550
1500
1450
1400
1350
1300

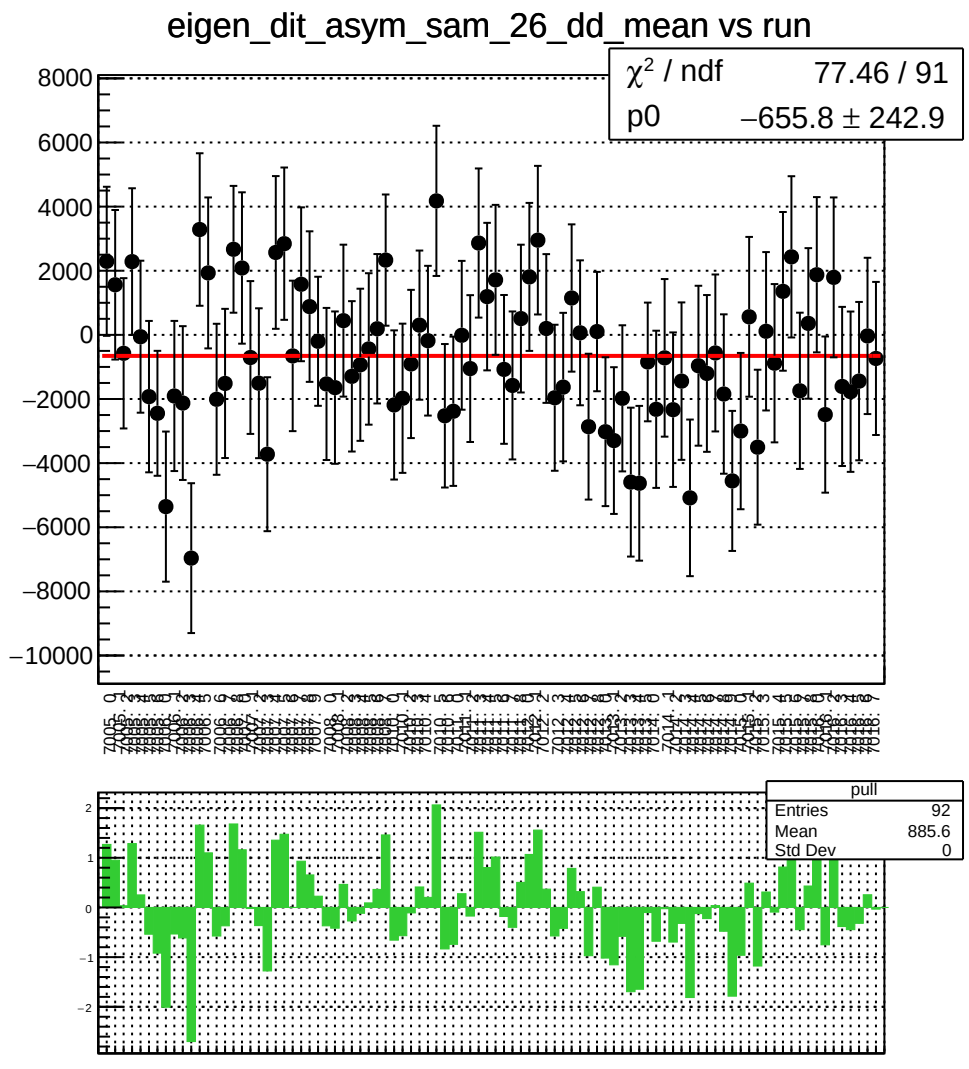

dit_asym_sam_26_dd_mean vs run
χ² / ndf 77.46 / 91
p0 −655.8 ± 242.9
pull
Entries 92
Mean 885.7
Std Dev 0

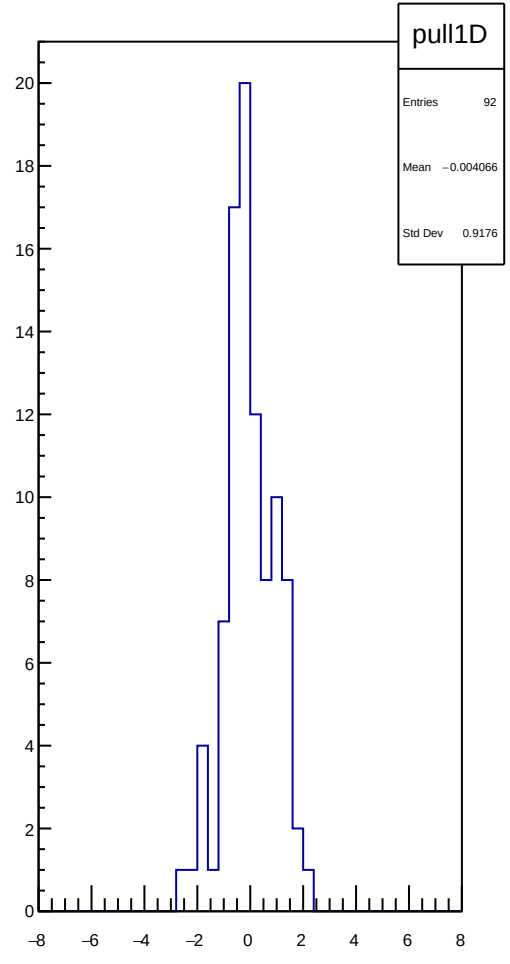

pull1D
Entries 92
Mean −0.004066
Std Dev 0.9176

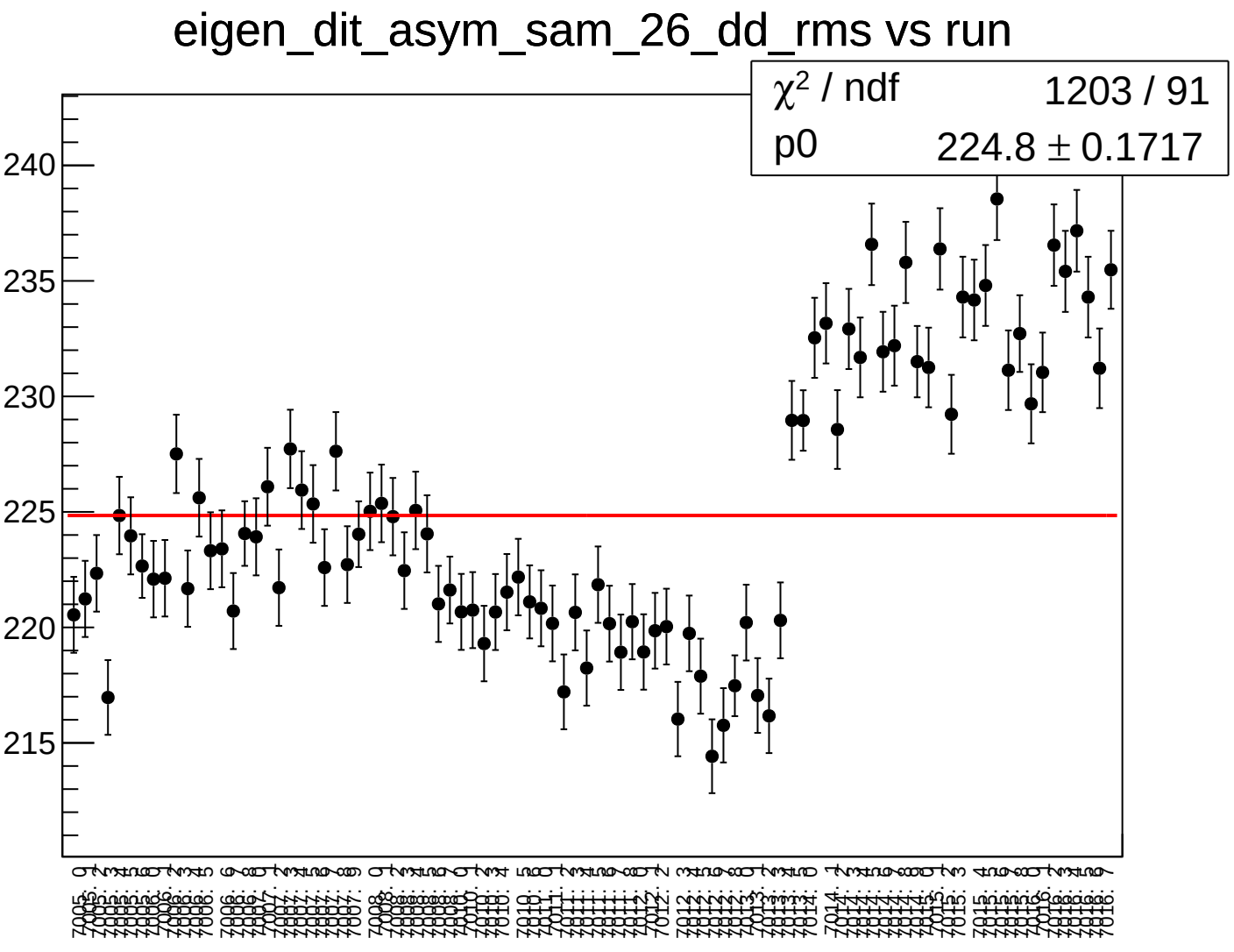

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1203 / 91
p0 224.8 ± 0.1717
240
235
230
225
220
215

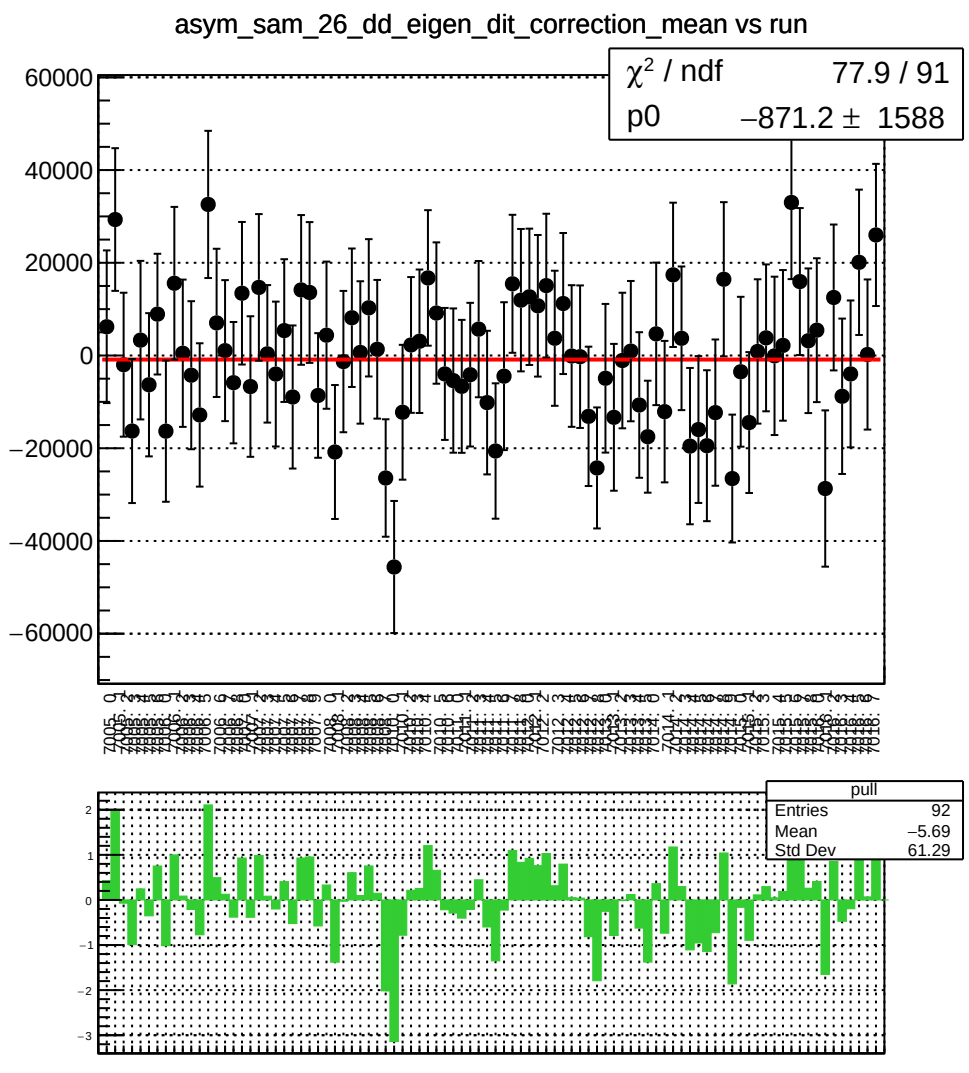

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 77.9 / 91
p0 −871.2 ± 1588
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −5.69
Std Dev 61.29
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01931
Std Dev 0.92
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

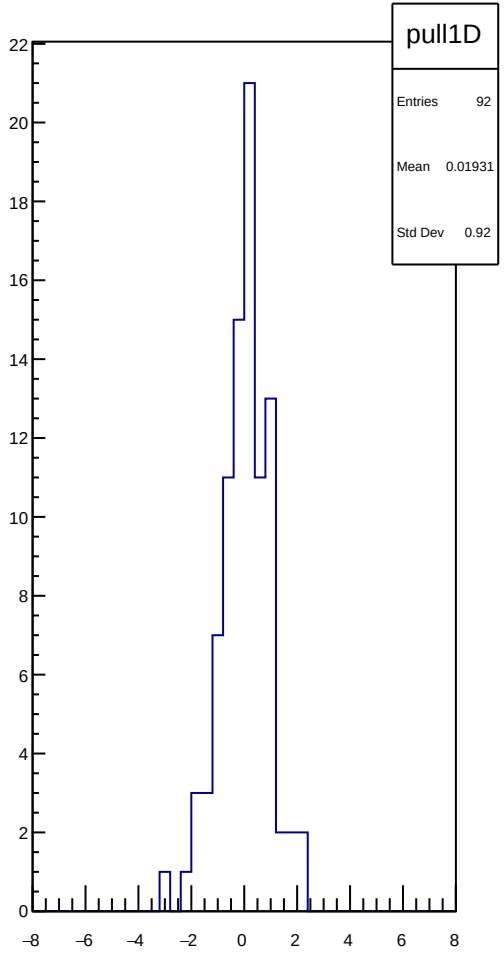

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2668 / 91
p0 1470 ± 1.123
1650
1600
1550
1500
1450
1400
1350

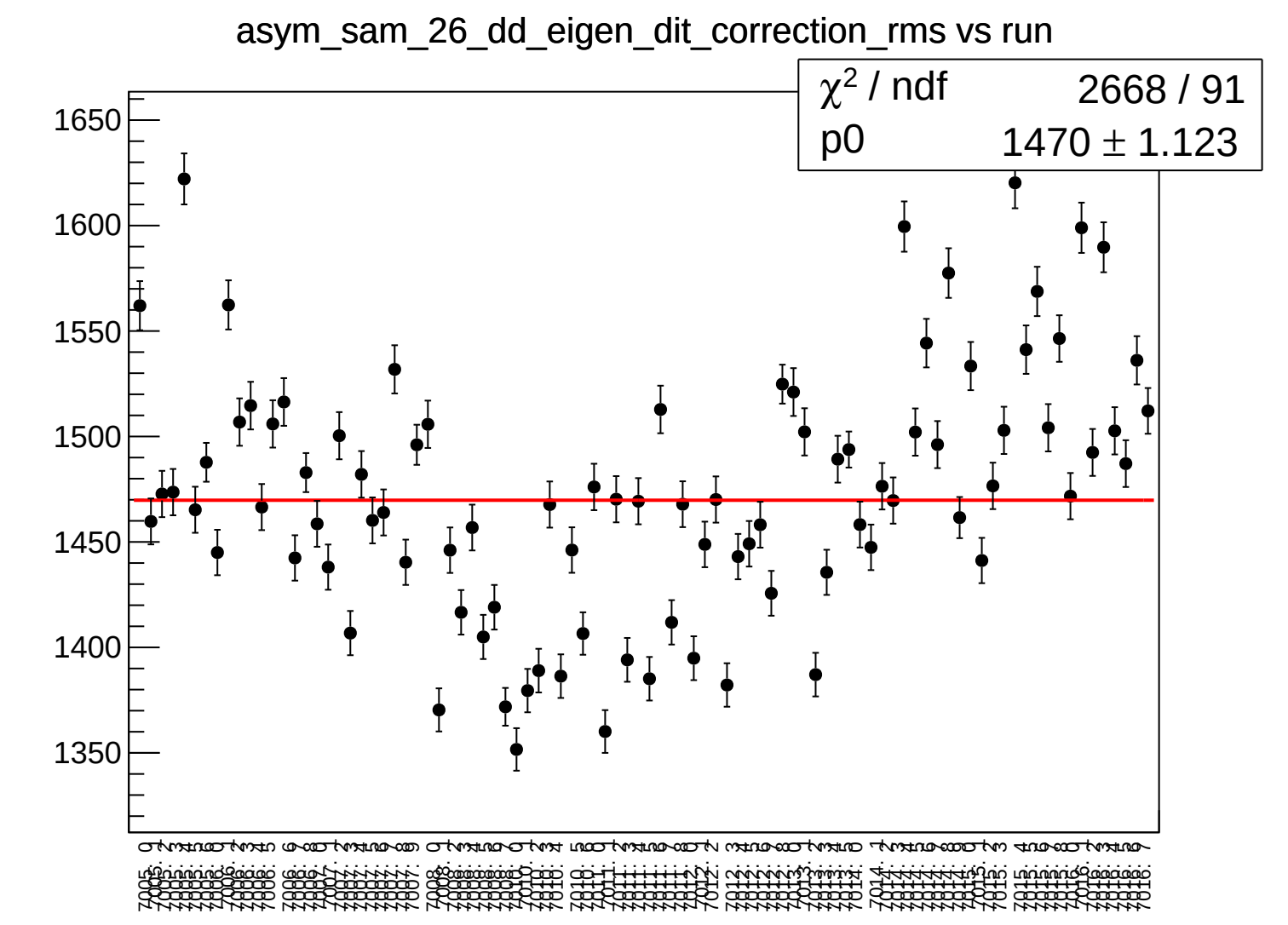

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 77.46 / 91
p0 −655.8 ± 242.9
pull
Entries 92
Mean 885.6
Std Dev 0

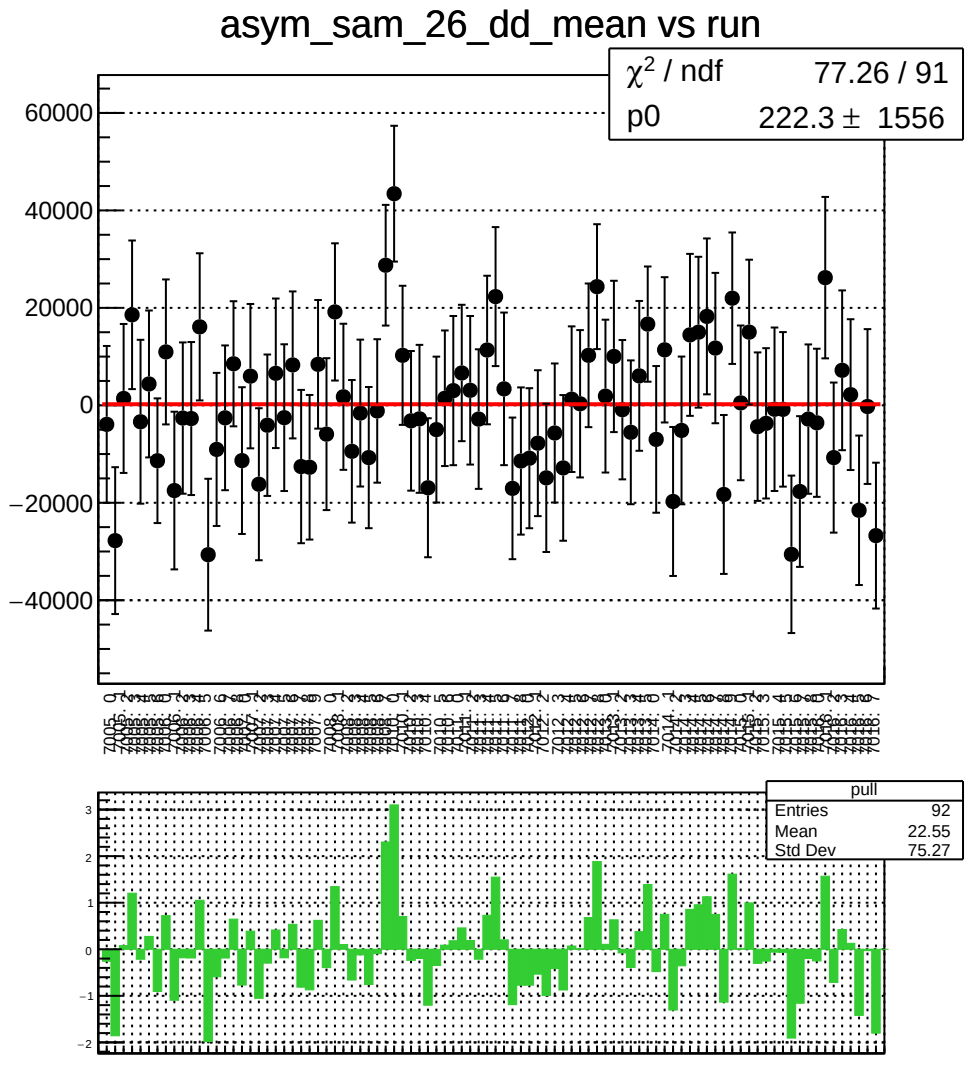

pull1D
Entries 92
Mean −0.004066
Std Dev 0.9176

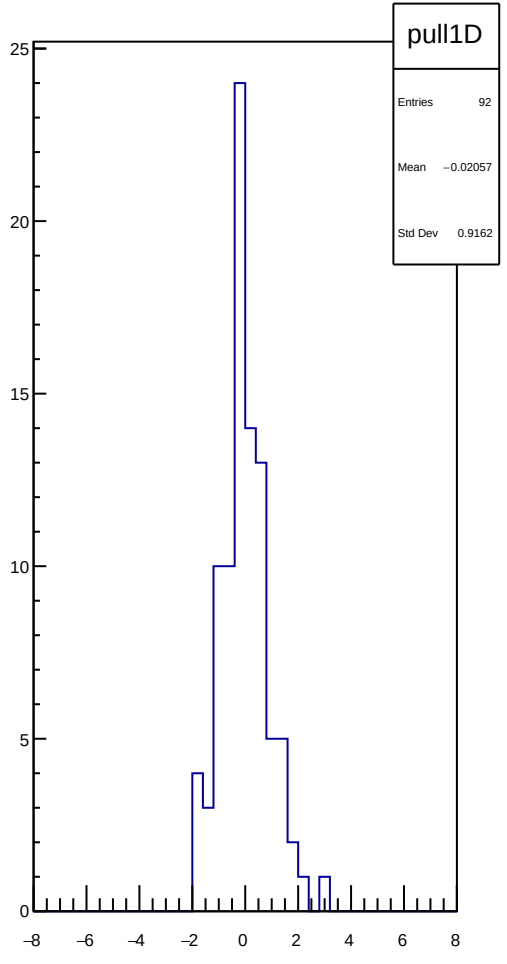

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1203 / 91
p0 224.8 ± 0.1717
240
235
230
225
220
215

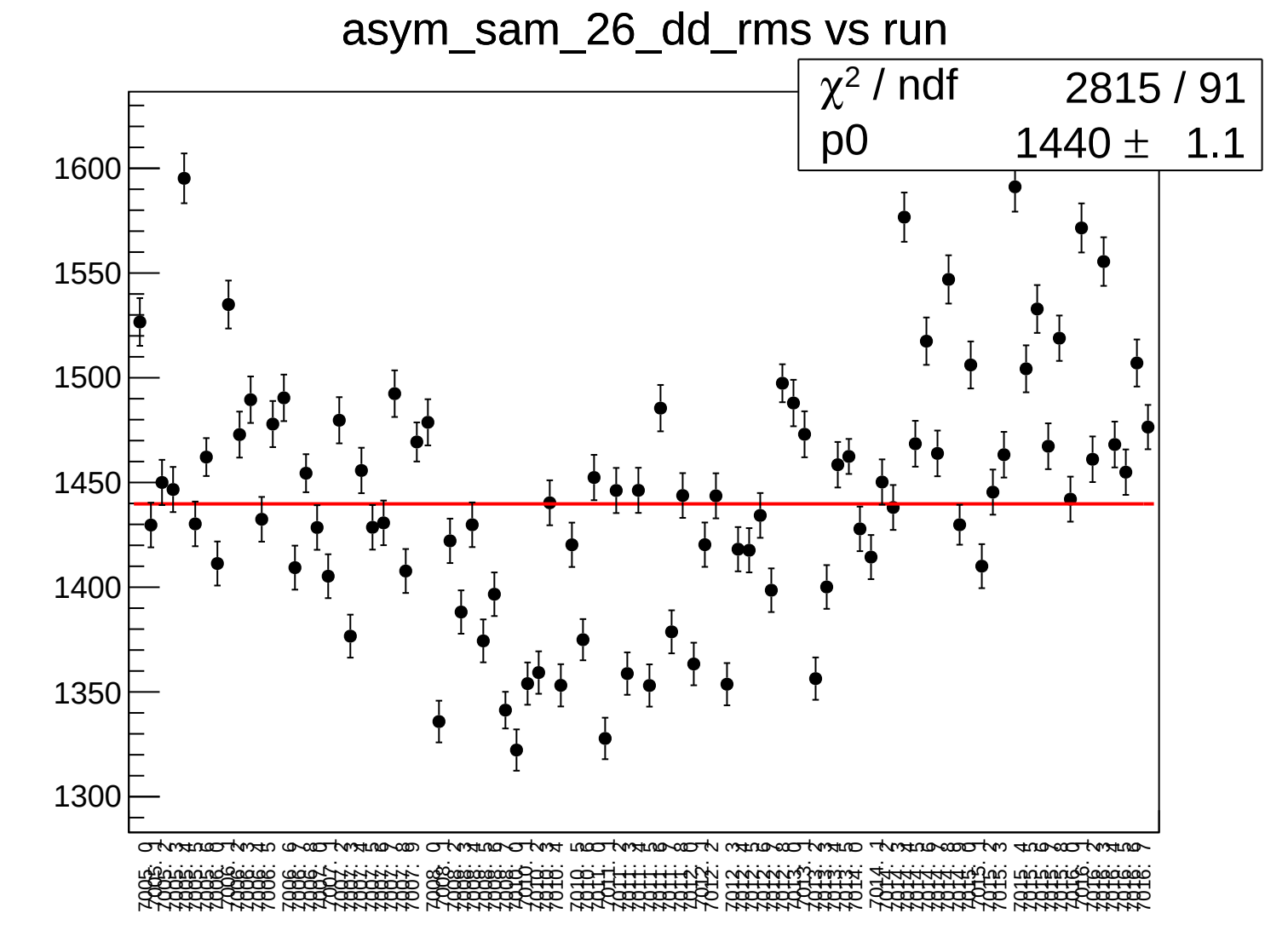

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.9 / 91
p0 −871.2 ± 1588
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −5.69
Std Dev 61.29
2
1
0
−1
−2
−3

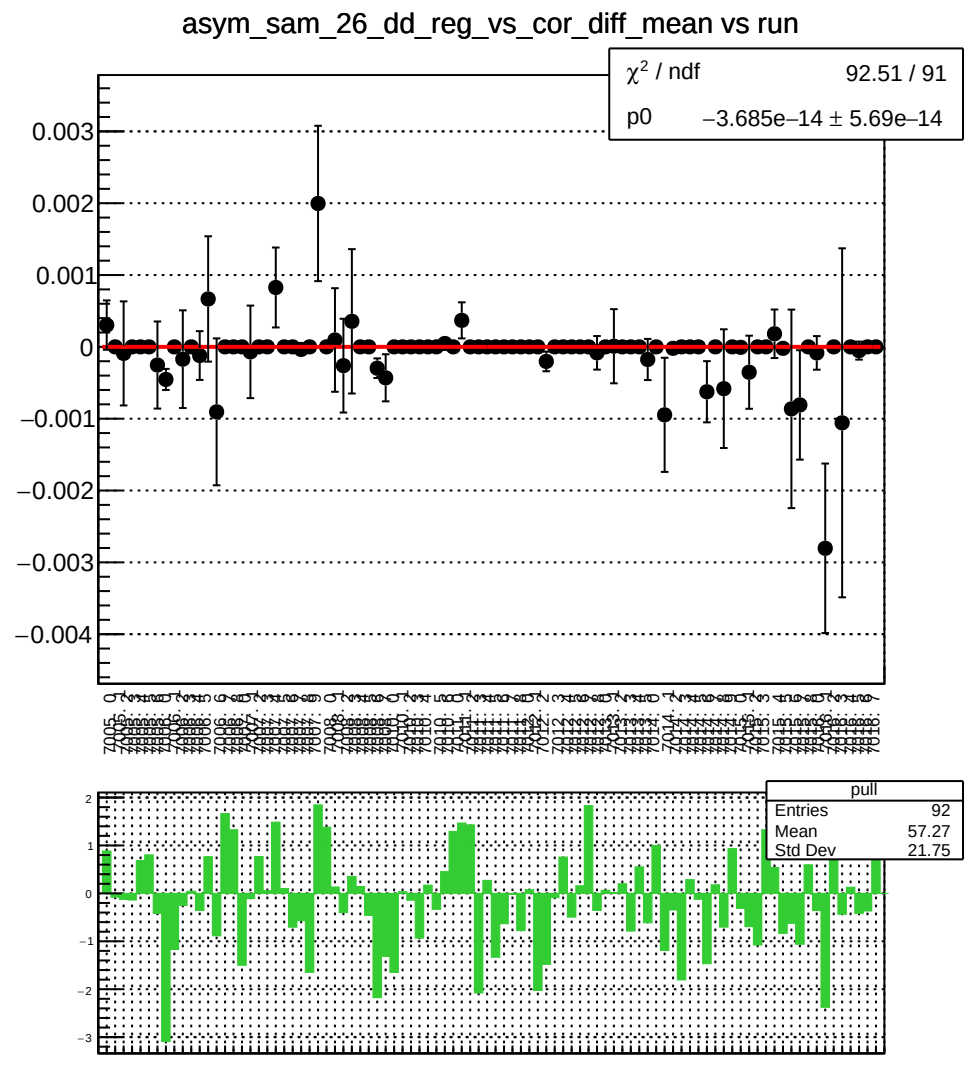

pull1D
Entries 92
Mean 0.01931
Std Dev 0.92
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

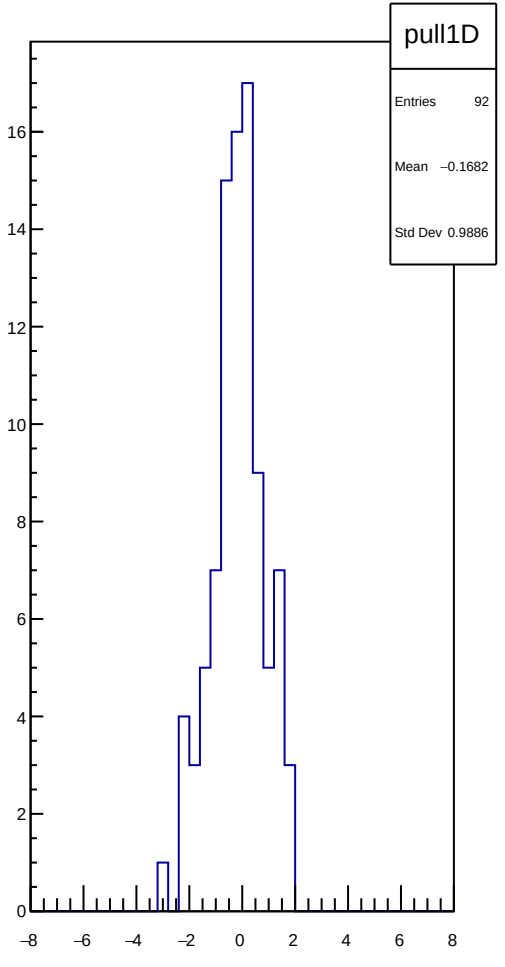

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2668 / 91
p0 1470 ± 1.123
1650
1600
1550
1500
1450
1400
1350

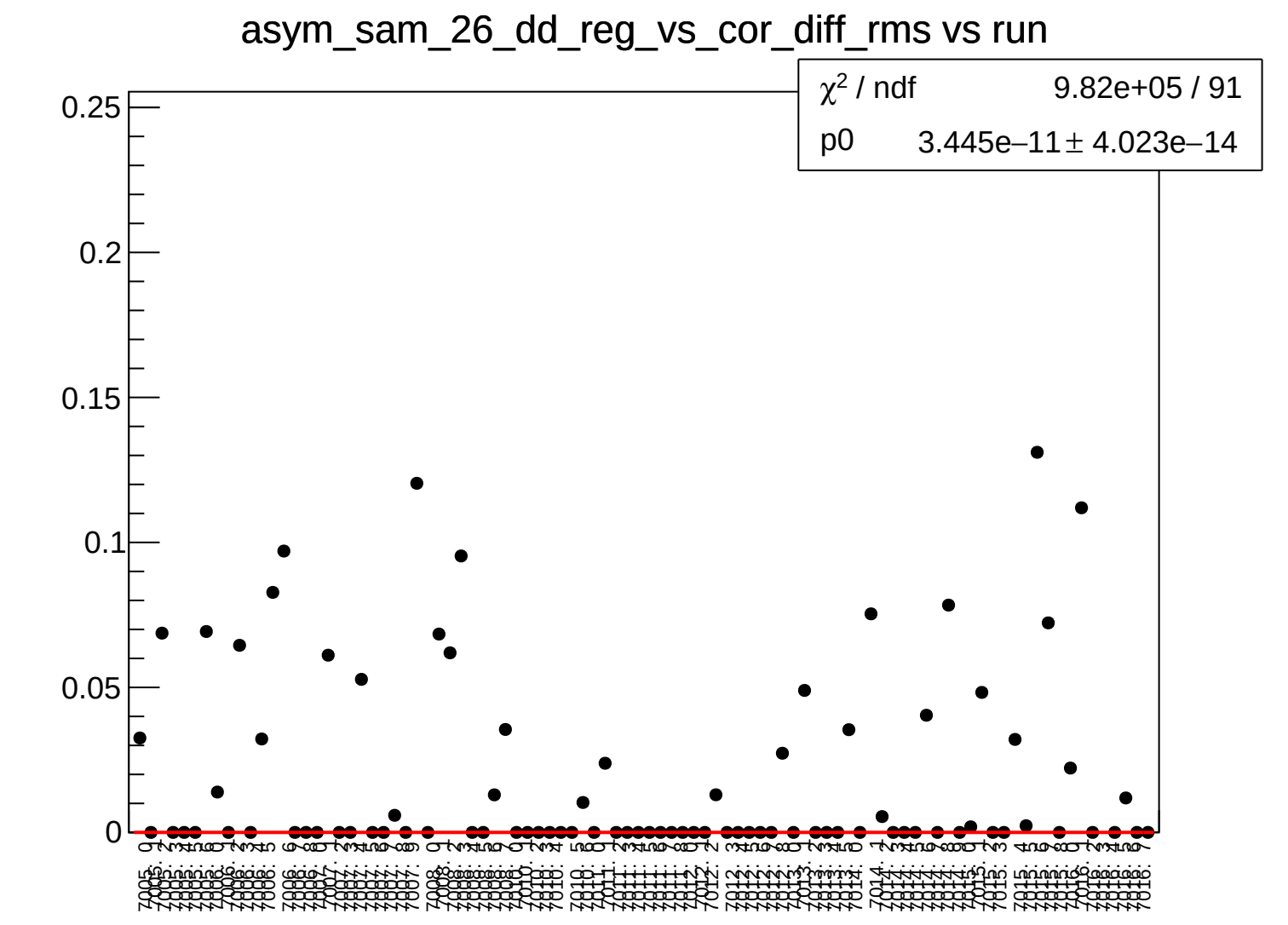

asym_sam_26_dd_mean vs run
χ² / ndf 77.26 / 91
p0 222.3 ± 1556
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 22.55
Std Dev 75.27
3
2
1
0
−1
−2

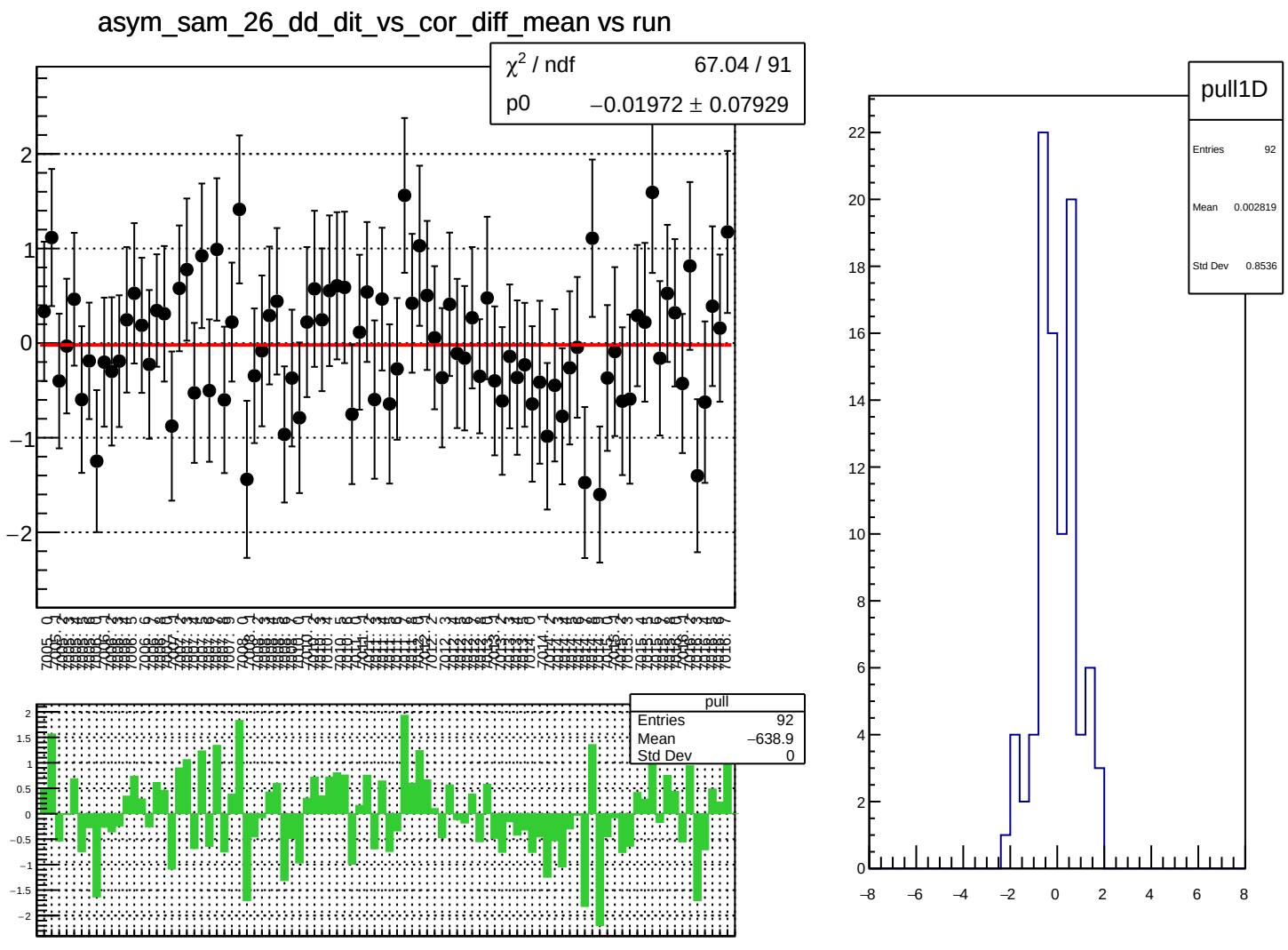

pull1D
Entries 92
Mean −0.02057
Std Dev 0.9162
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

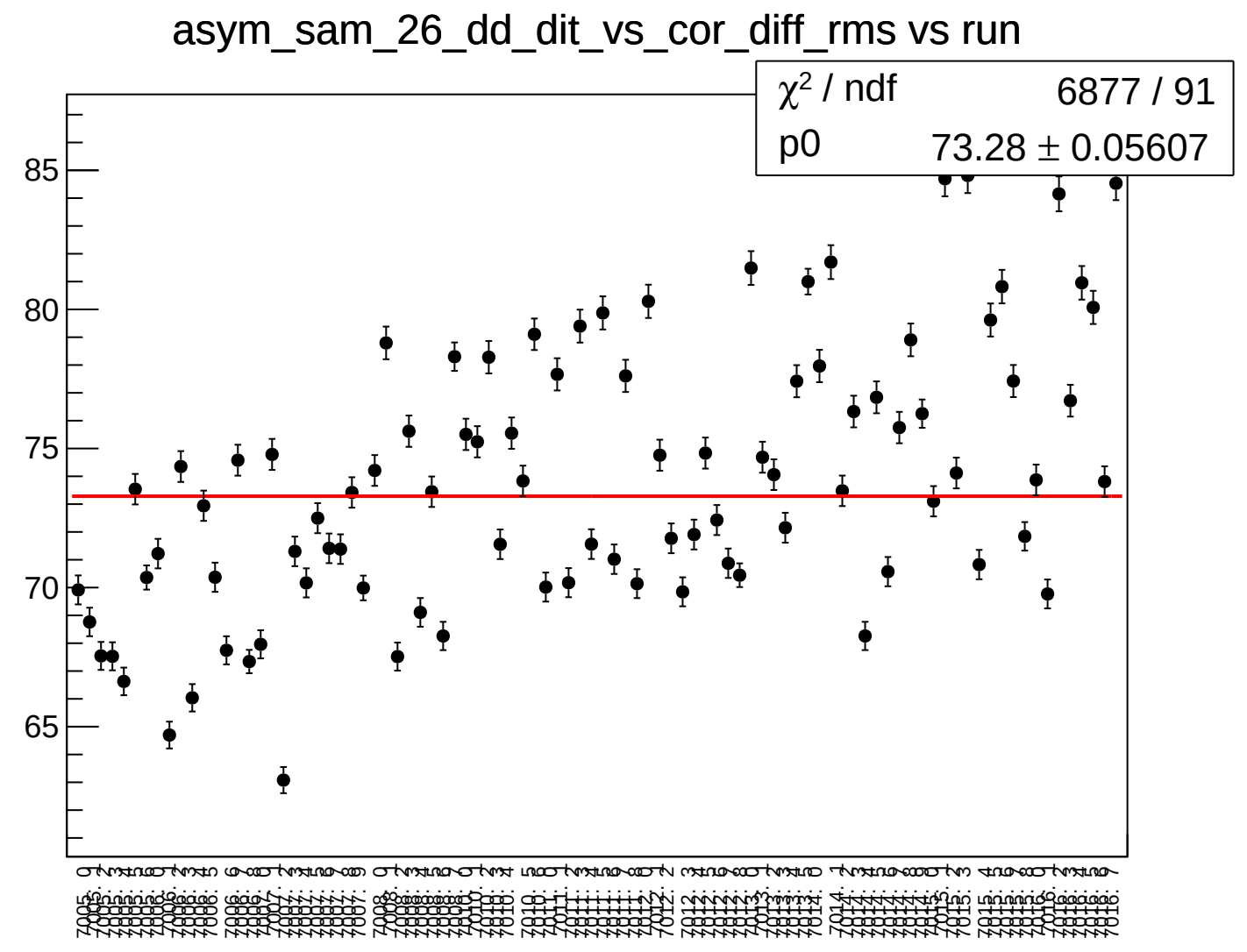

asym_sam_26_dd_rms vs run
χ² / ndf 2815 / 91
p0 1440 ± 1.1
1600
1550
1500
1450
1400
1350
1300

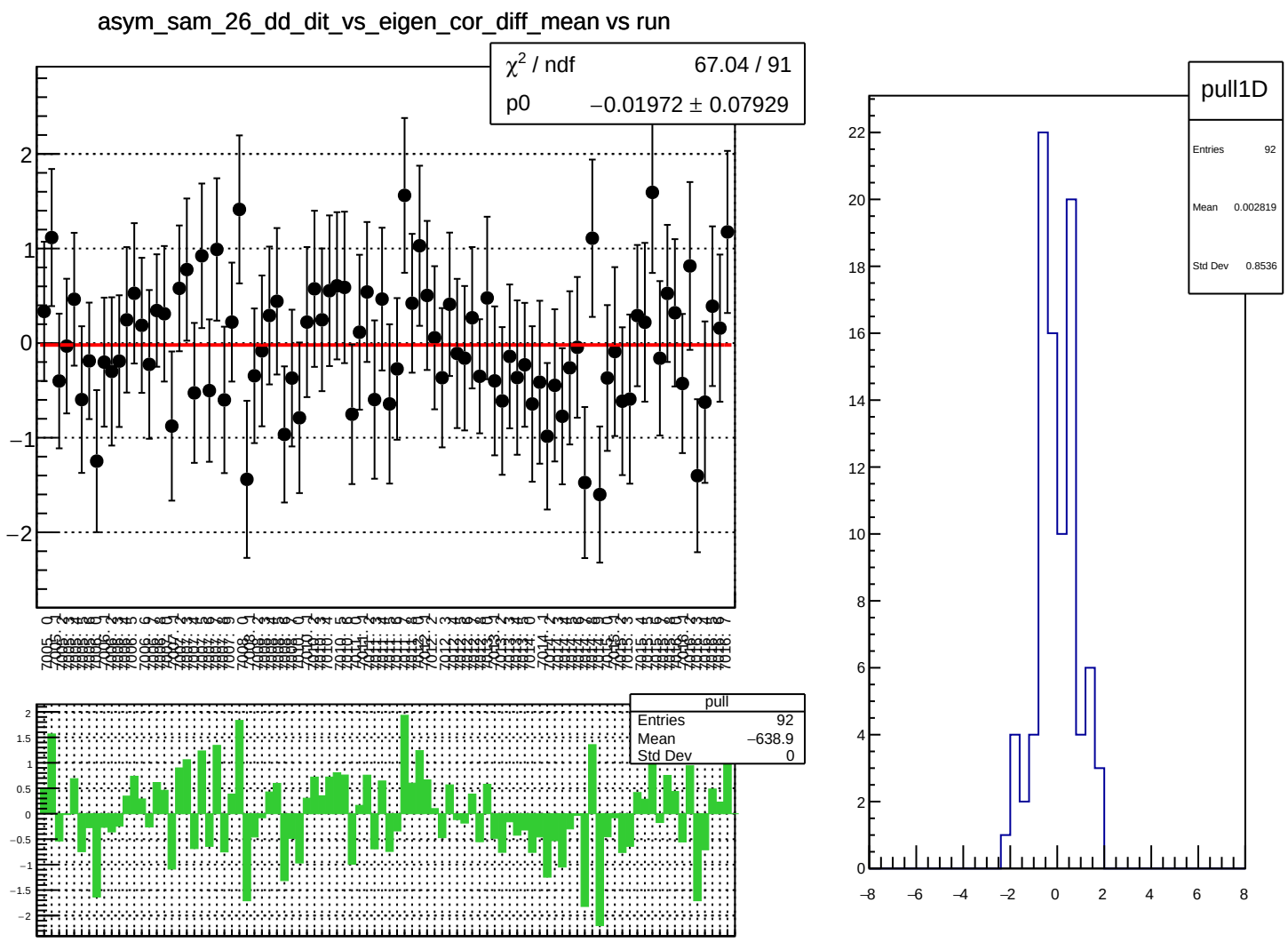

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.51 / 91
p0 −3.685e−14 ± 5.69e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 92
Mean 57.27
Std Dev 21.75
2
1
0
−1
−2
−3

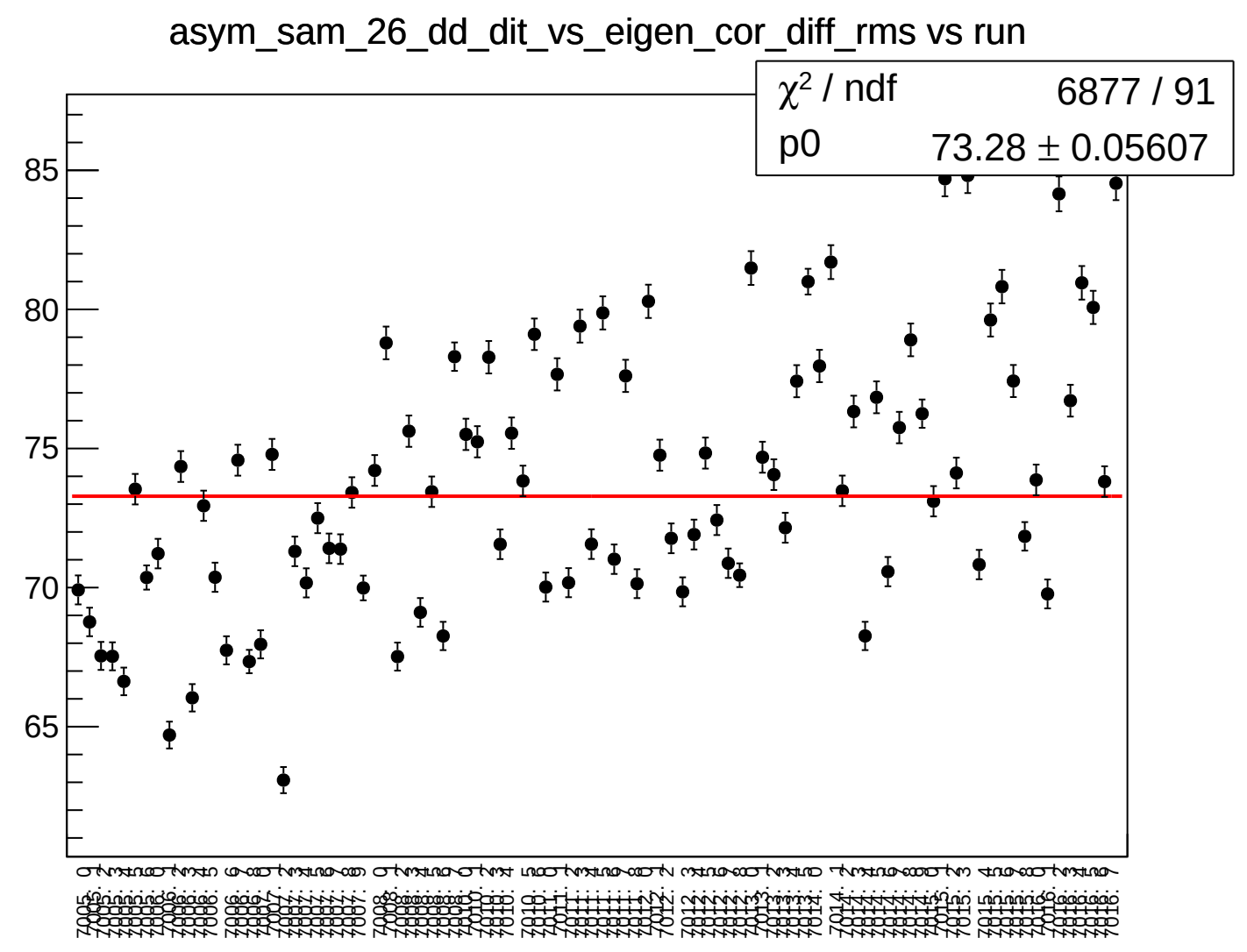

pull1D
Entries 92
Mean −0.1682
Std Dev 0.9886
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

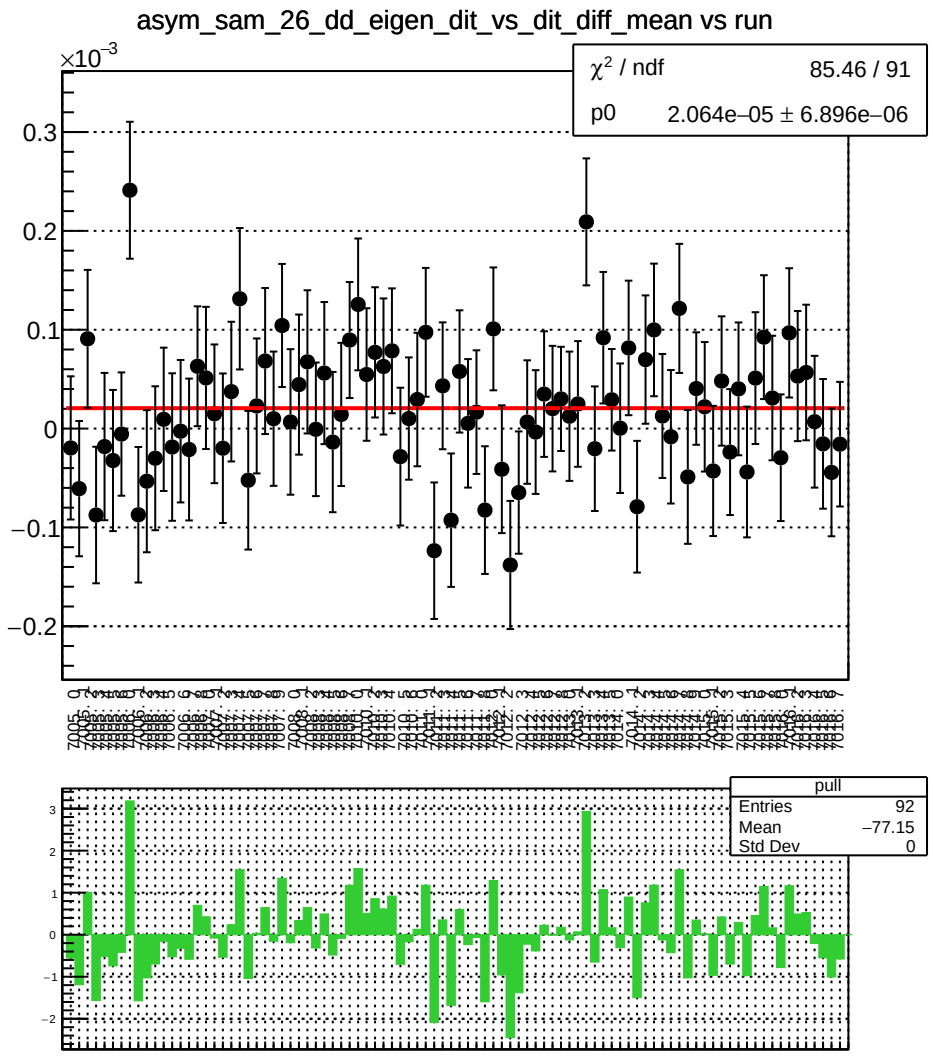

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.82e+05 / 91
p0 3.445e−11 ± 4.023e−14
0.25
0.2
0.15
0.1
0.05
0

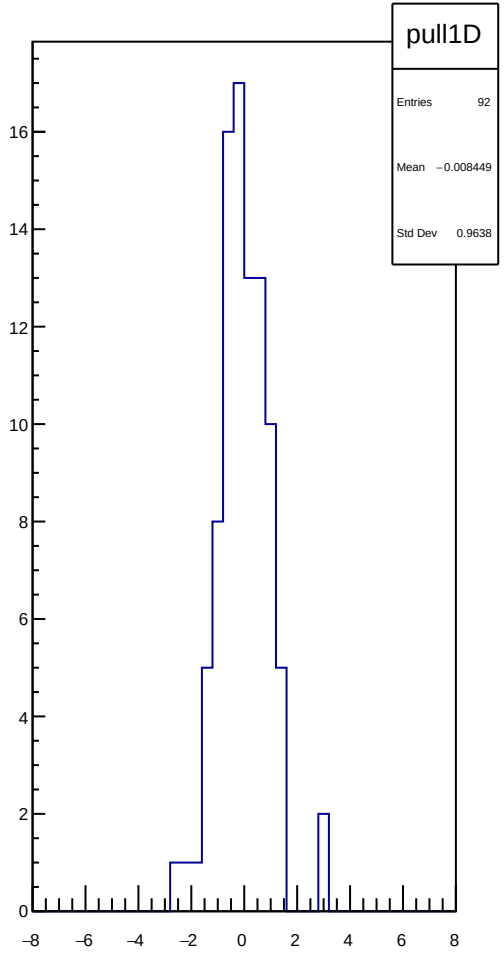

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.04 / 91
p0 −0.01972 ± 0.07929
pull
Entries 92
Mean −638.9
Std Dev 0
pull1D
Entries 92
Mean 0.002819
Std Dev 0.8536

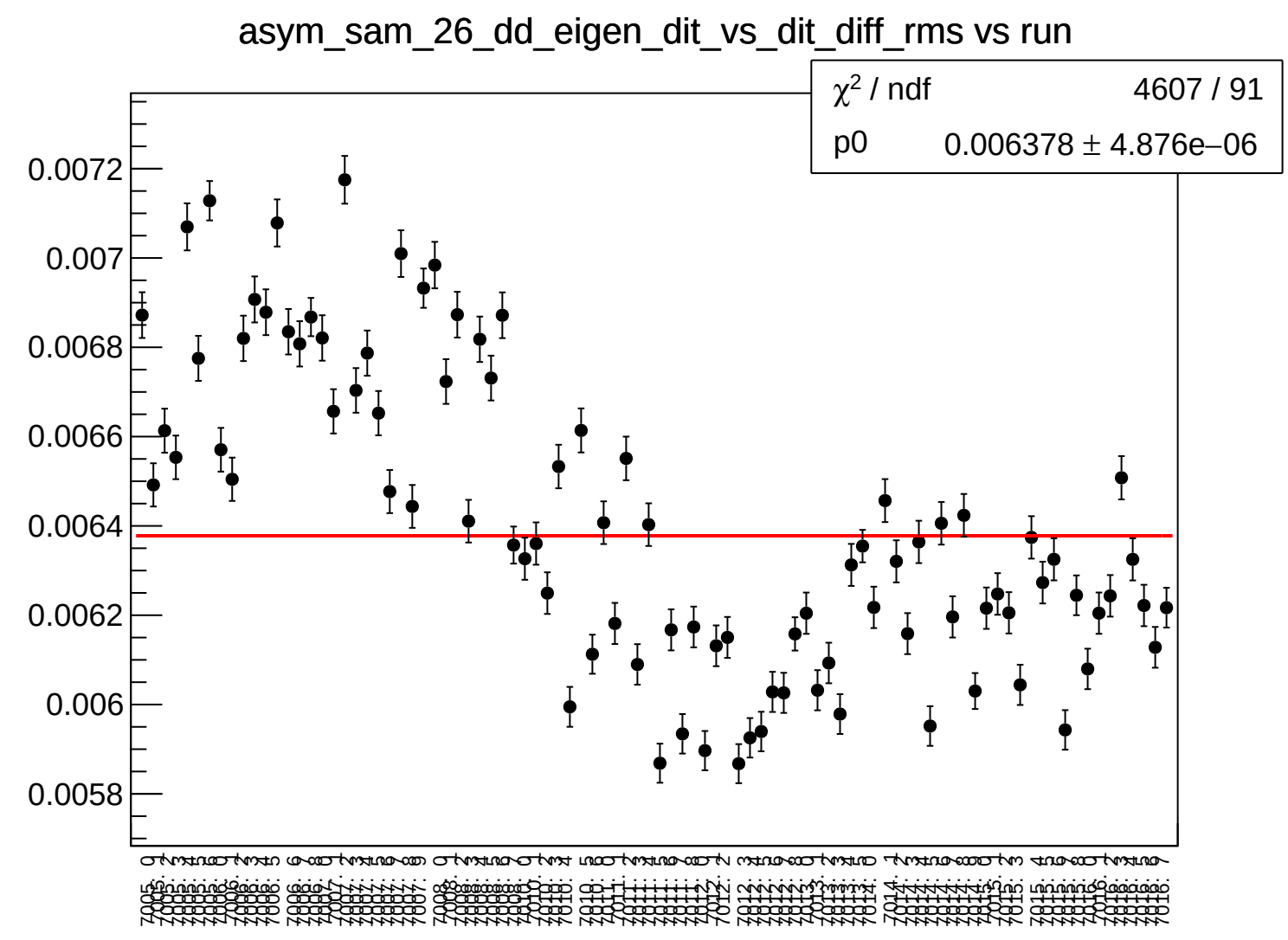

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6877 / 91
p0 73.28 ± 0.05607
85
80
75
70
65

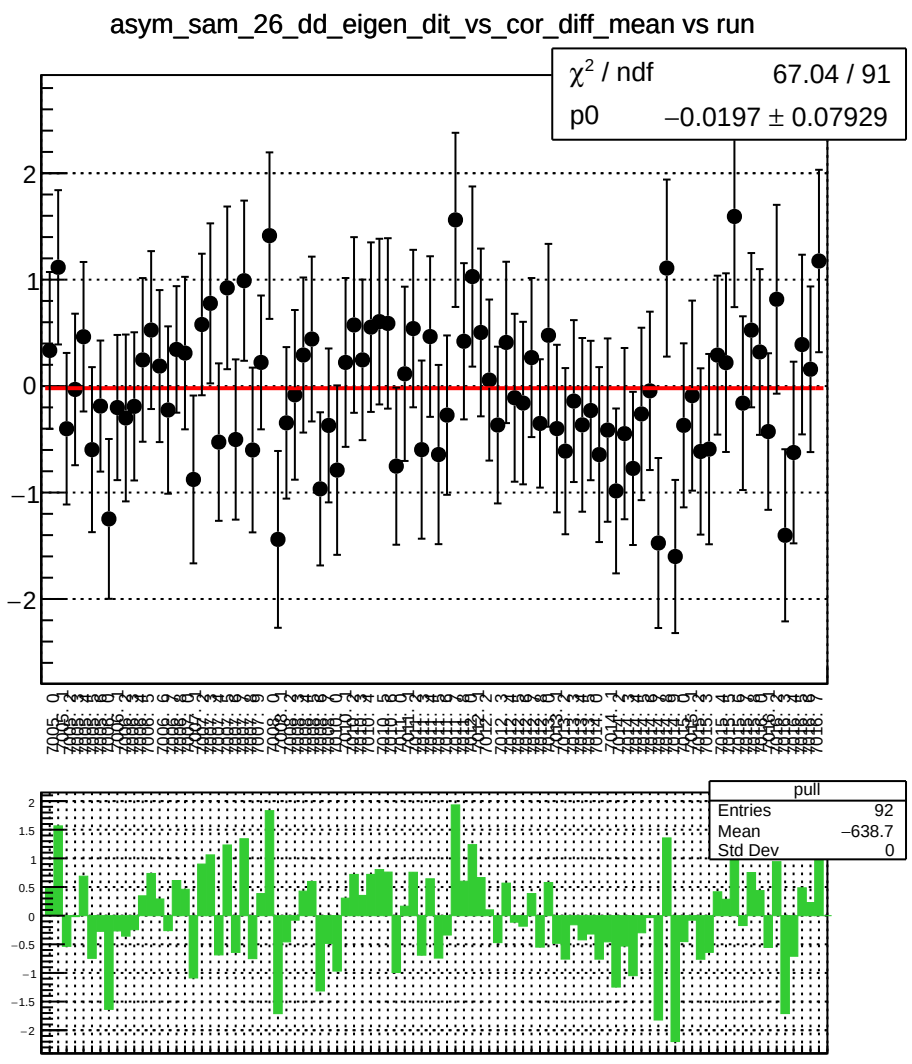

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.04 / 91
p0 −0.01972 ± 0.07929
pull
Entries 92
Mean −638.9
Std Dev 0
pull1D
Entries 92
Mean 0.002819
Std Dev 0.8536

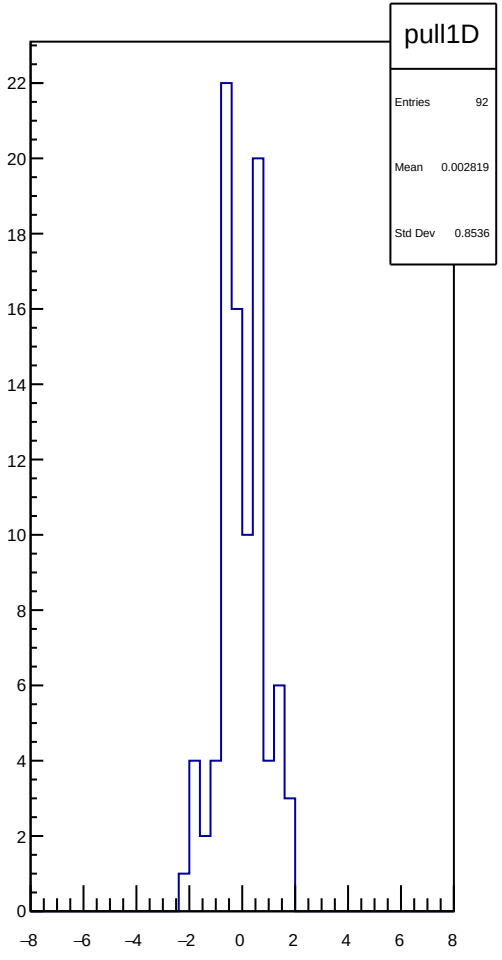

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6877 / 91
p0 73.28 ± 0.05607
85
80
75
70
65

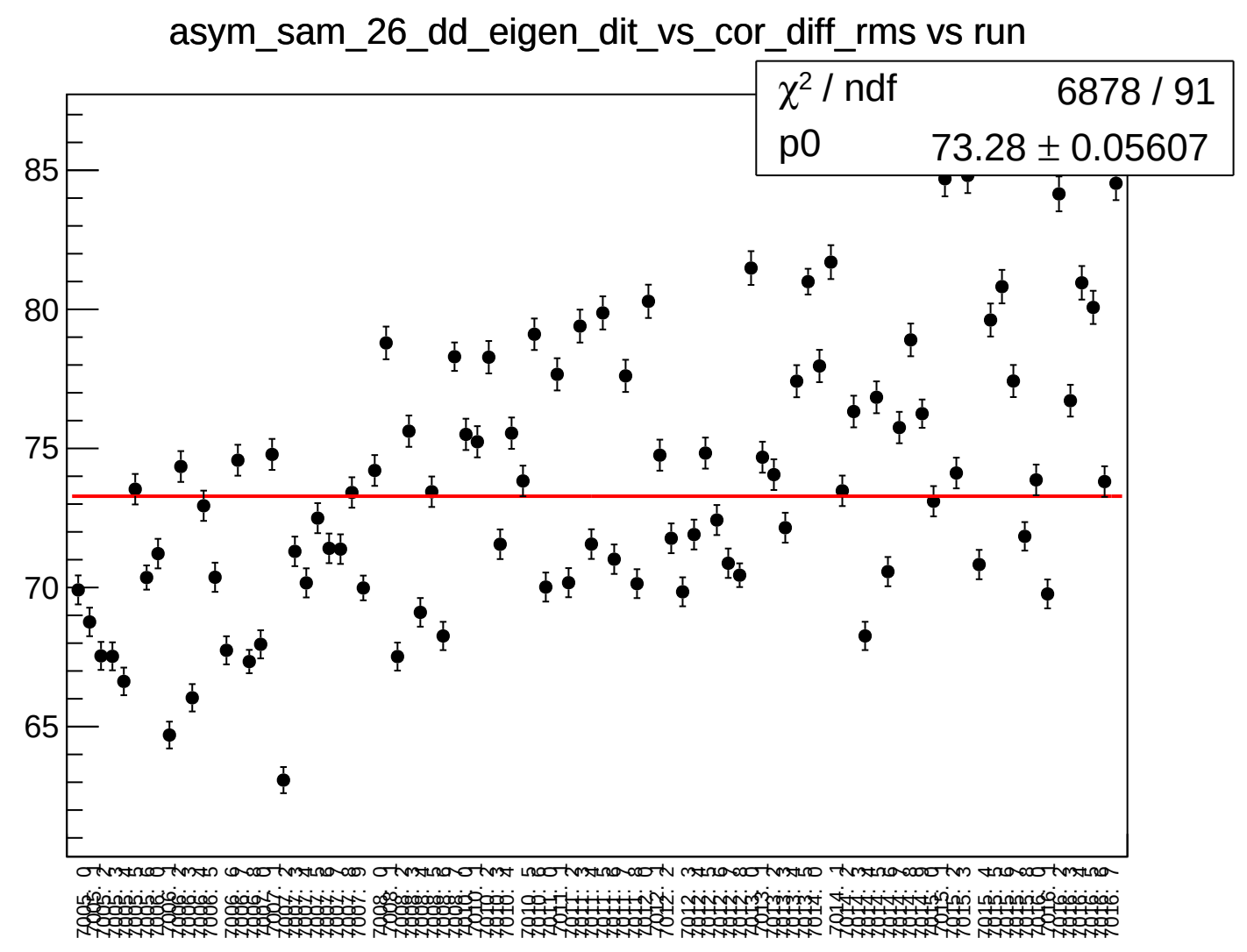

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.46 / 91
p0 2.064e−05 ± 6.896e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 92
Mean −77.15
Std Dev 0
3
2
1
0
−1
−2

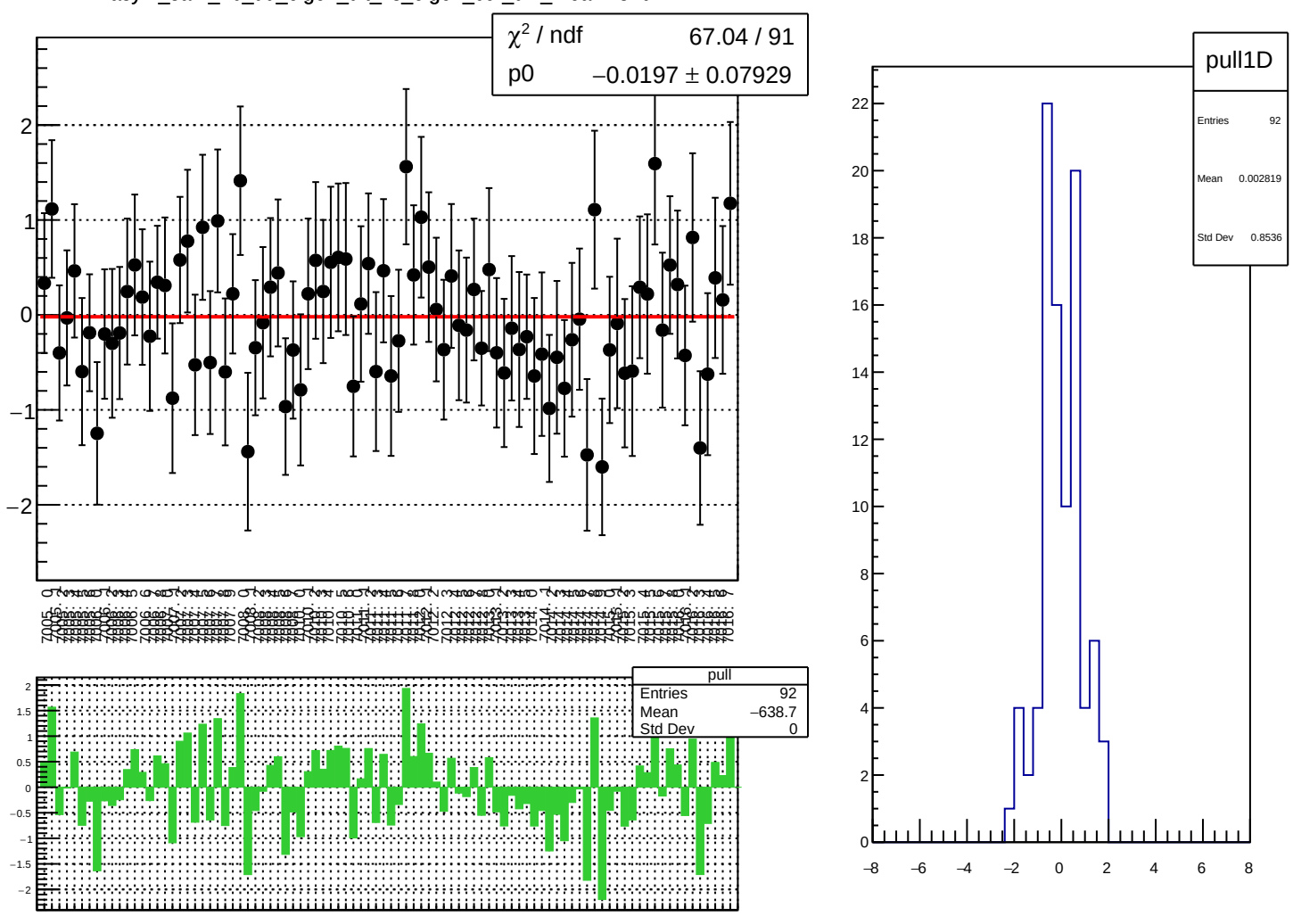

pull1D
Entries 92
Mean −0.008449
Std Dev 0.9638
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

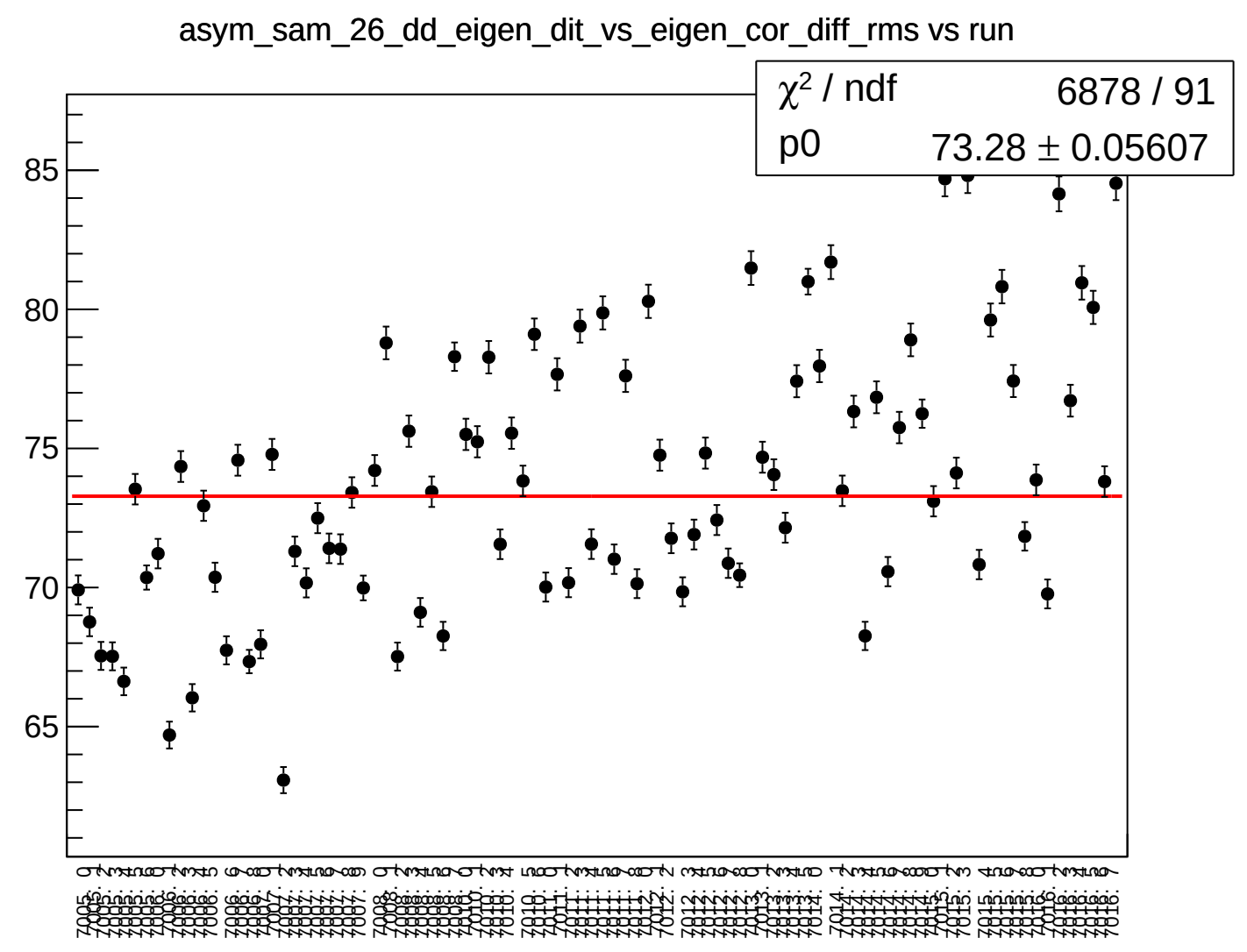

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4607 / 91
p0 0.006378 ± 4.876e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058

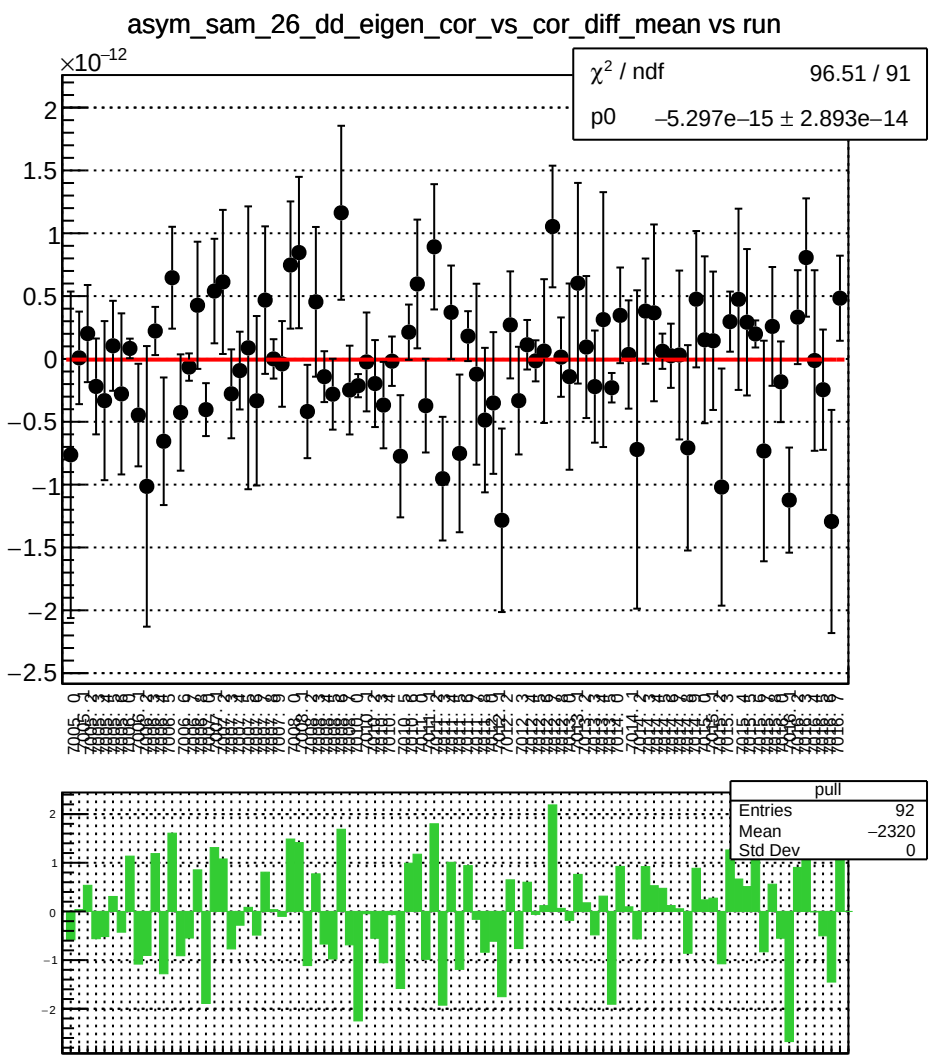

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.04 / 91
p0 −0.0197 ± 0.07929
pull
Entries 92
Mean −638.7
Std Dev 0

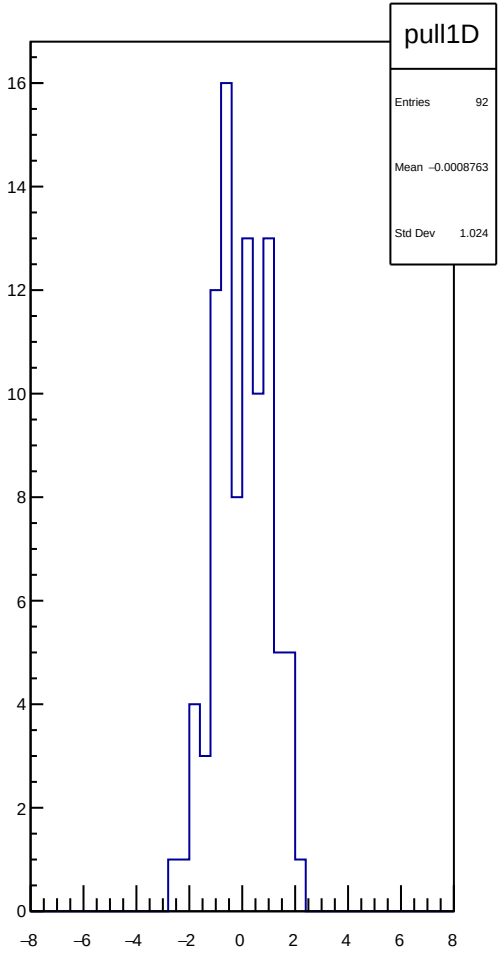

pull1D
Entries 92
Mean 0.002819
Std Dev 0.8536

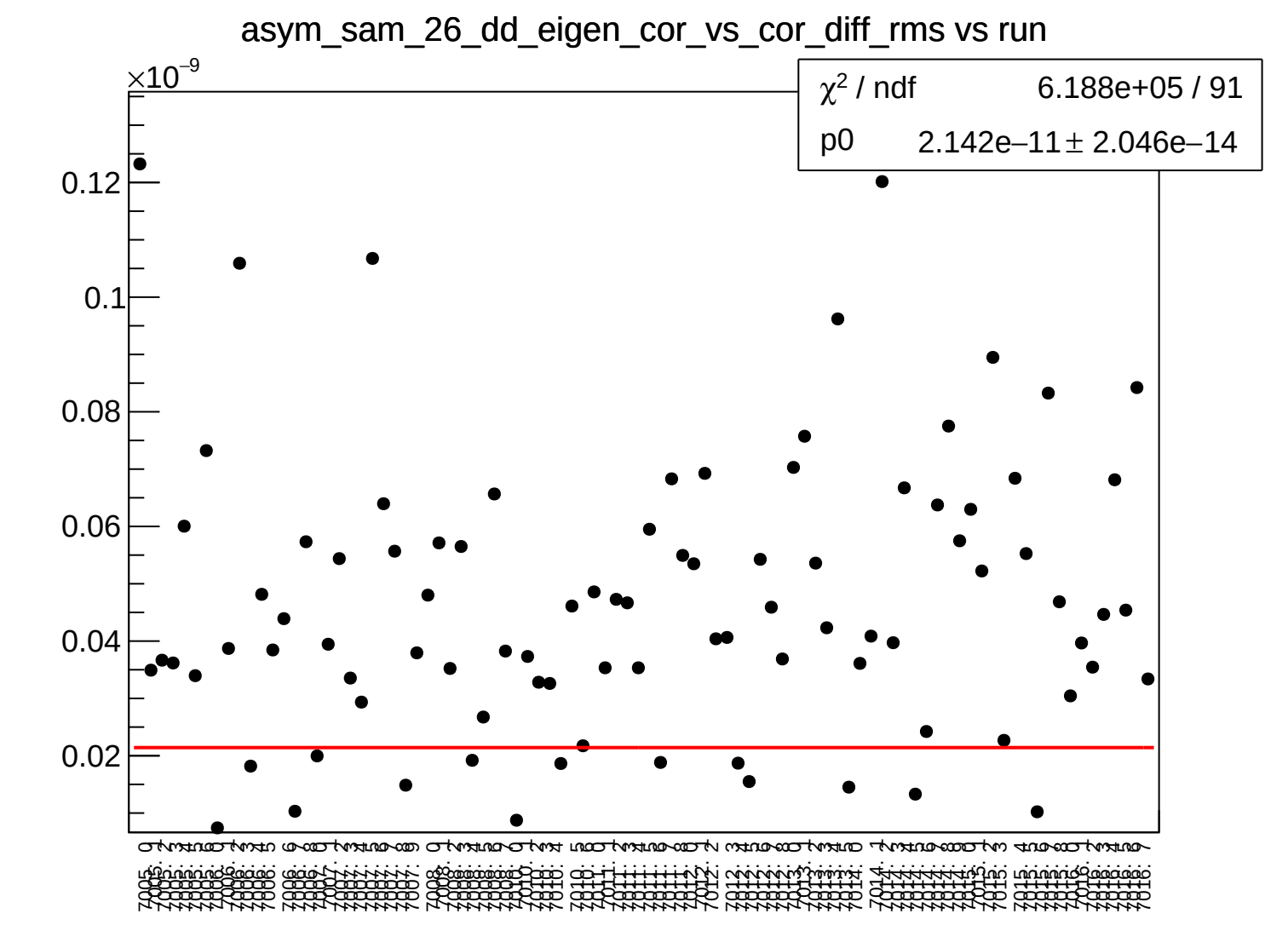

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6878 / 91
p0 73.28 ± 0.05607
85
80
75
70
65

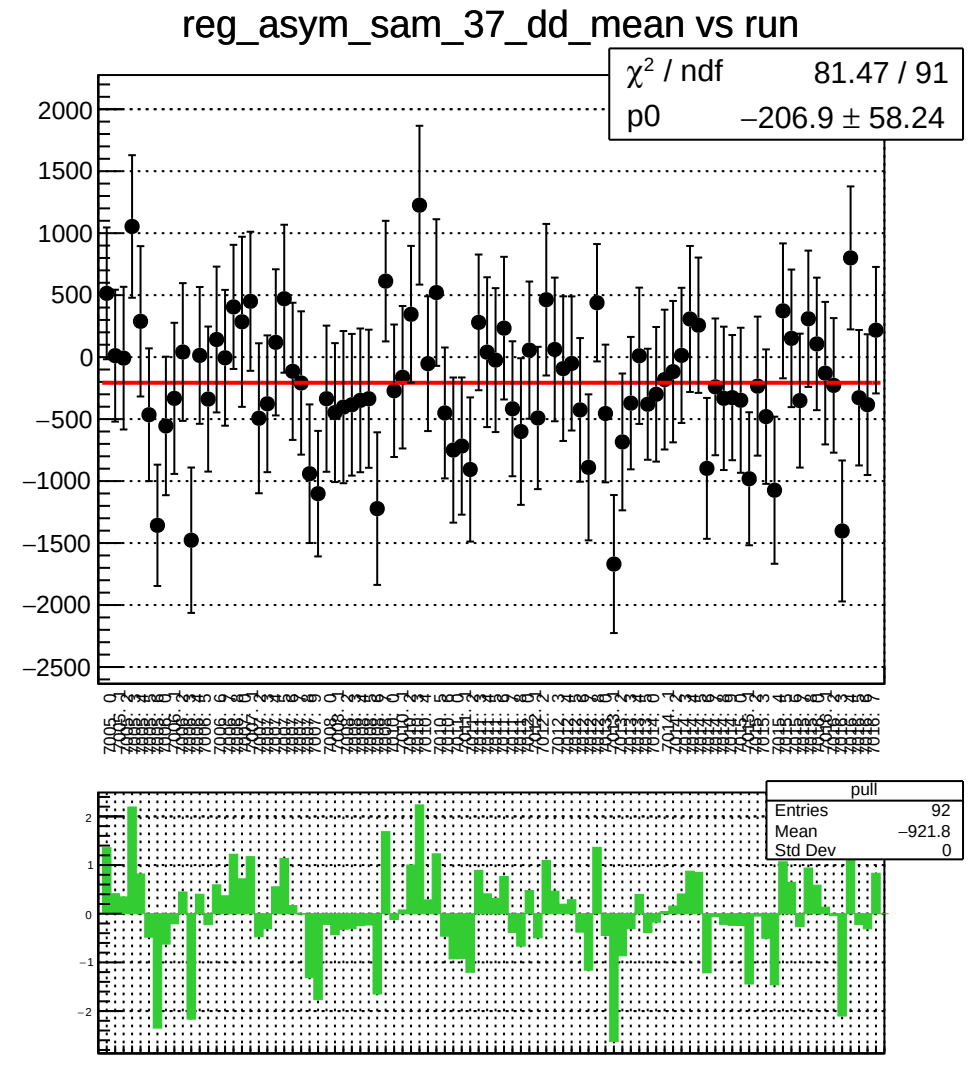

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.04 / 91
p0 −0.0197 ± 0.07929
pull
Entries 92
Mean −638.7
Std Dev 0
pull1D
Entries 92
Mean 0.002819
Std Dev 0.8536

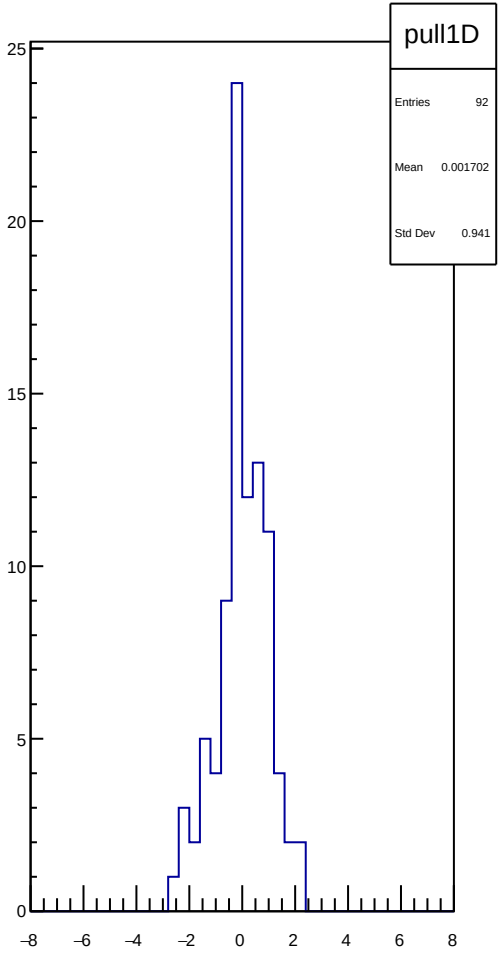

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6878 / 91
p0 73.28 ± 0.05607
85
80
75
70
65

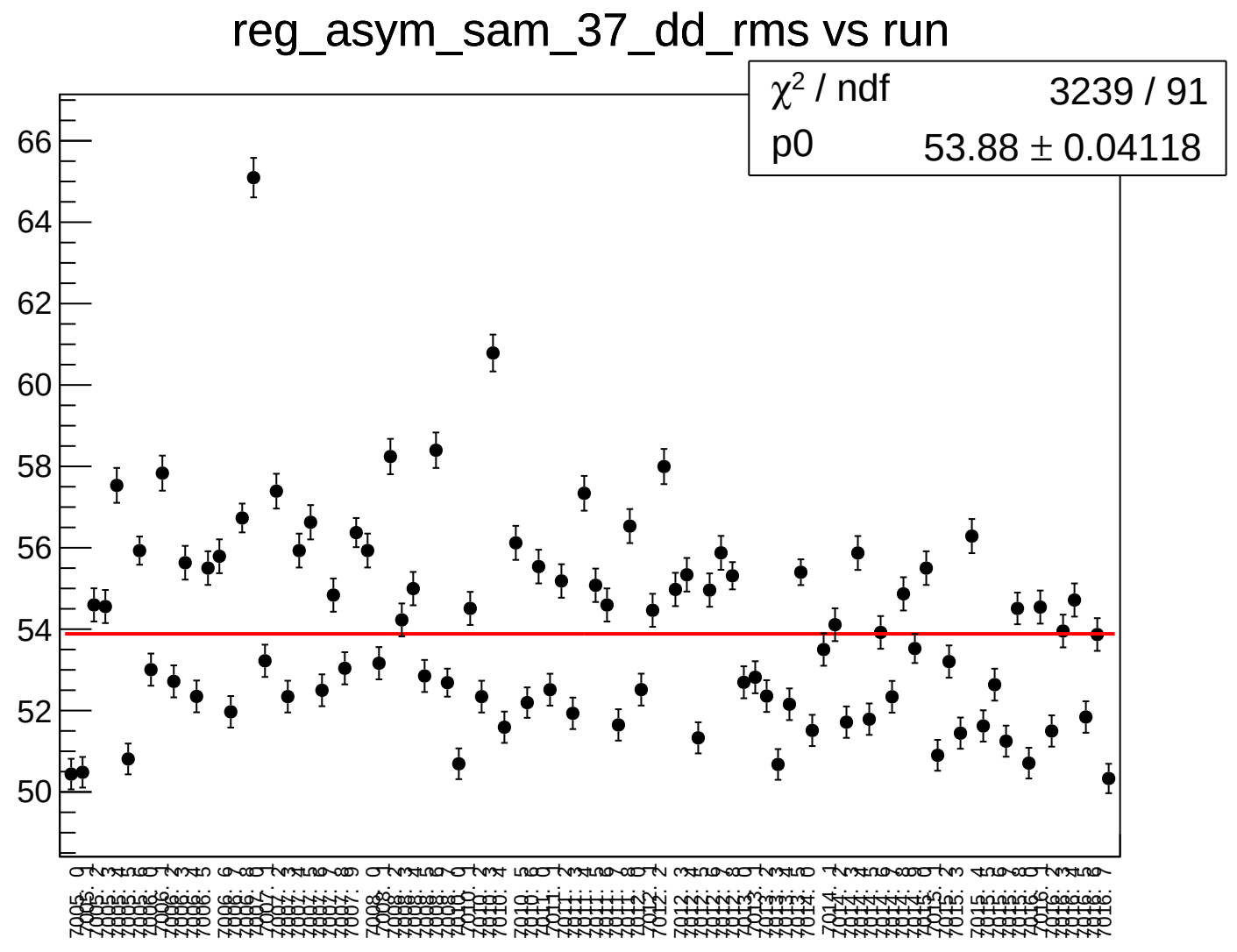

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.51 / 91
p0 −5.297e−15 ± 2.893e−14
pull
Entries 92
Mean −2320
Std Dev 0

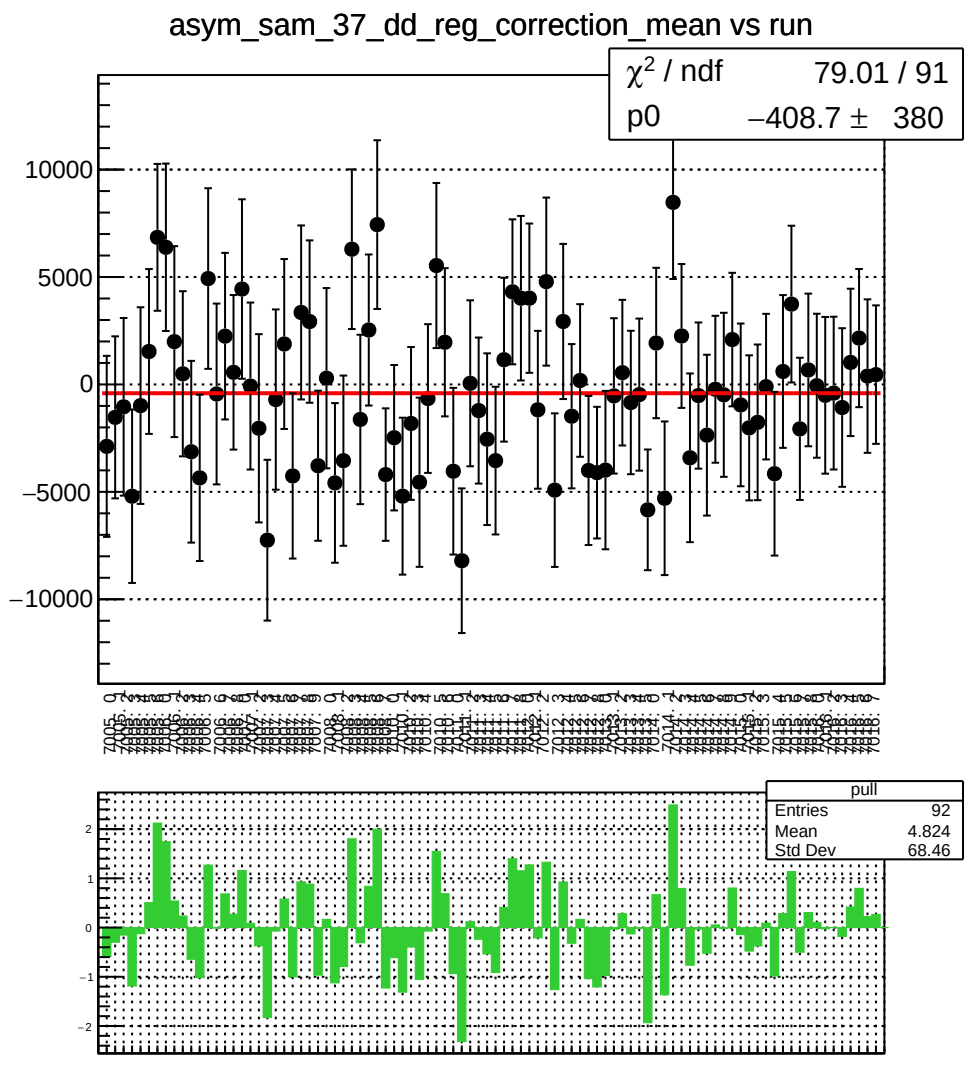

pull1D
Entries 92
Mean −0.0008763
Std Dev 1.024

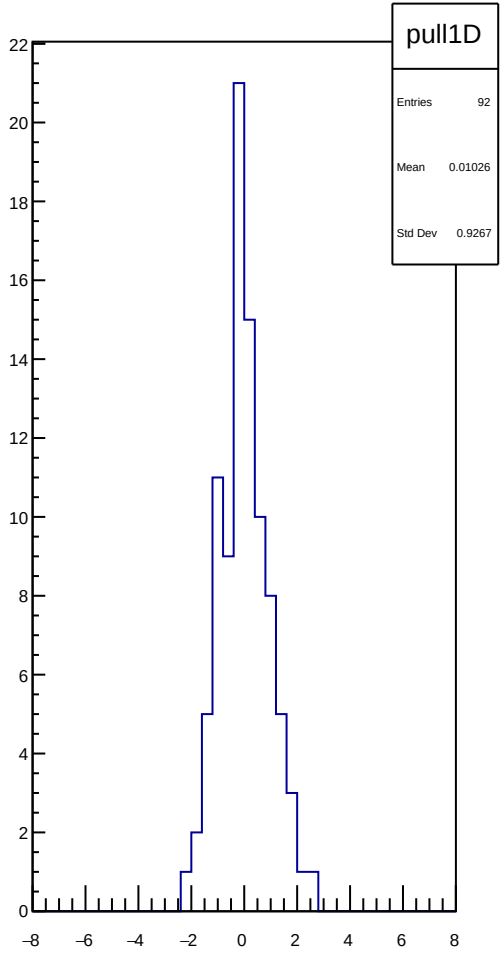

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.188e+05 / 91
p0 2.142e−11 ± 2.046e−14
0.12
0.1
0.08
0.06
0.04
0.02

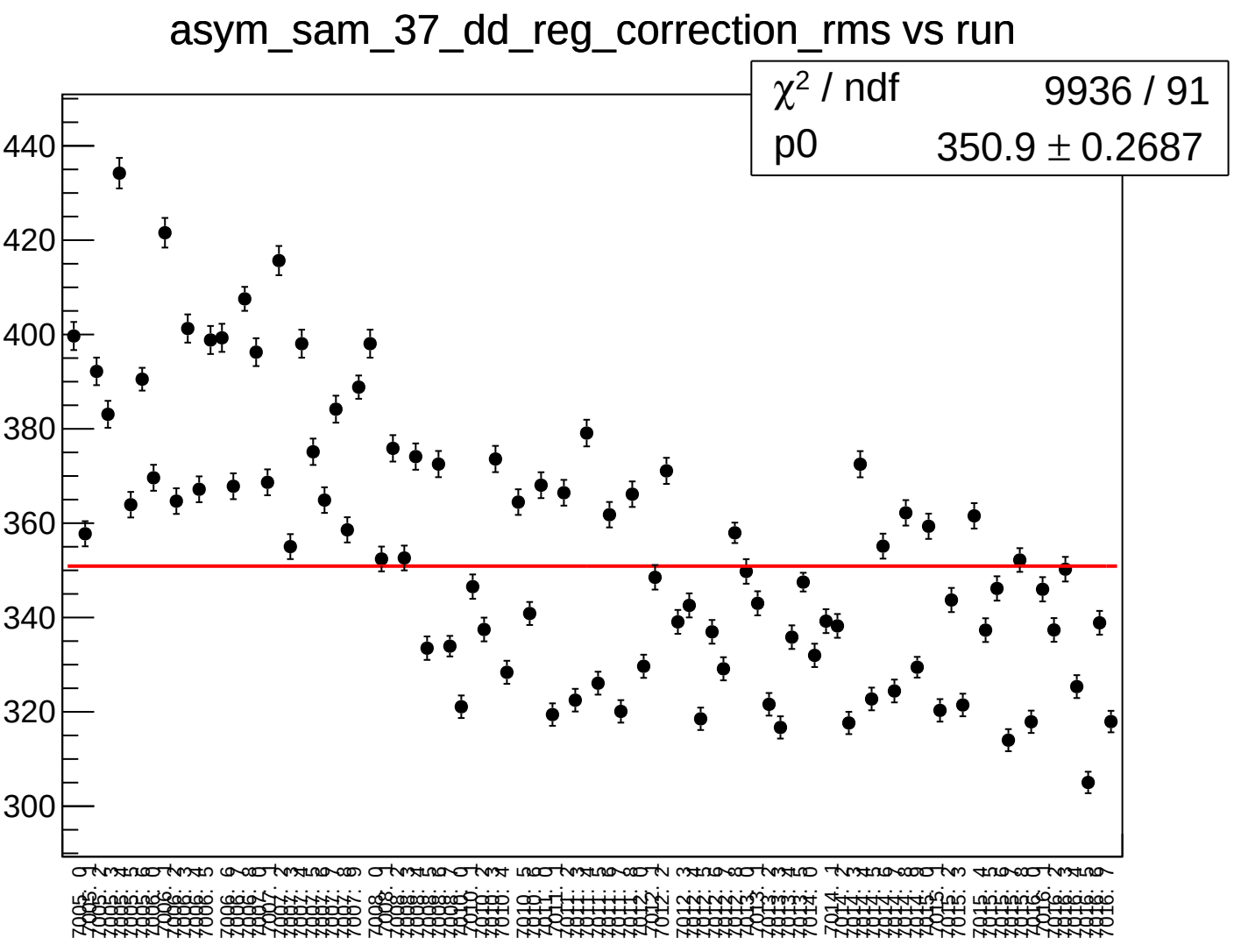

reg_asym_sam_37_dd_mean vs run
χ² / ndf 81.47 / 91
p0 −206.9 ± 58.24
pull
Entries 92
Mean −921.8
Std Dev 0

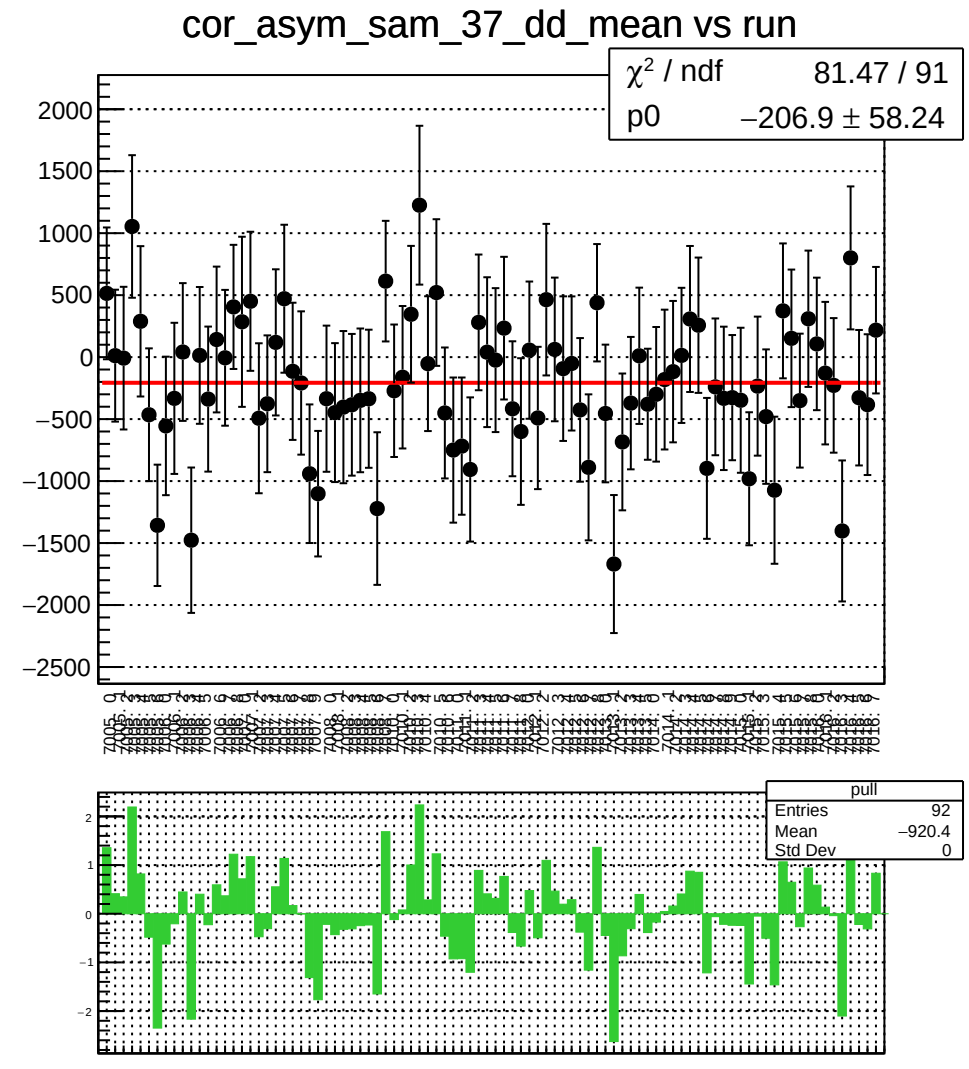

pull1D
Entries 92
Mean 0.001702
Std Dev 0.941

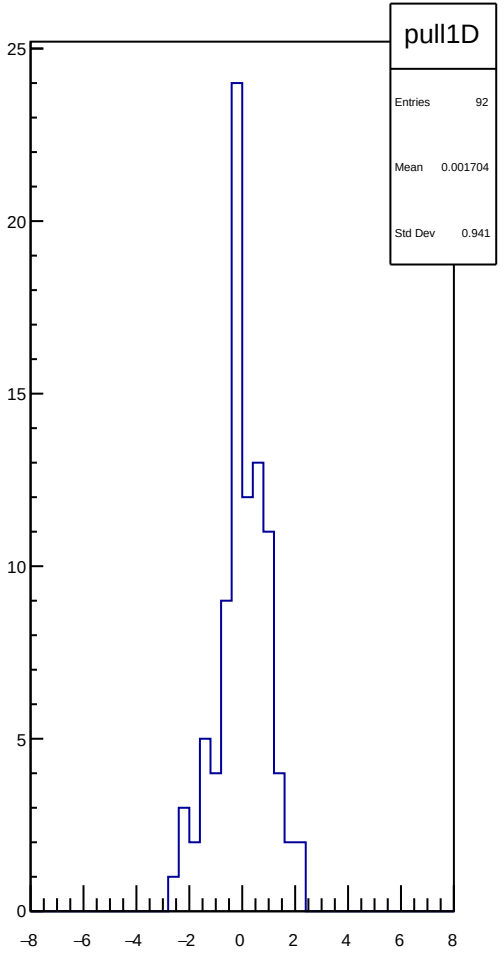

reg_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 3239 / 91
p0 53.88 ± 0.04118
66
64
62
60
58
56
54
52
50

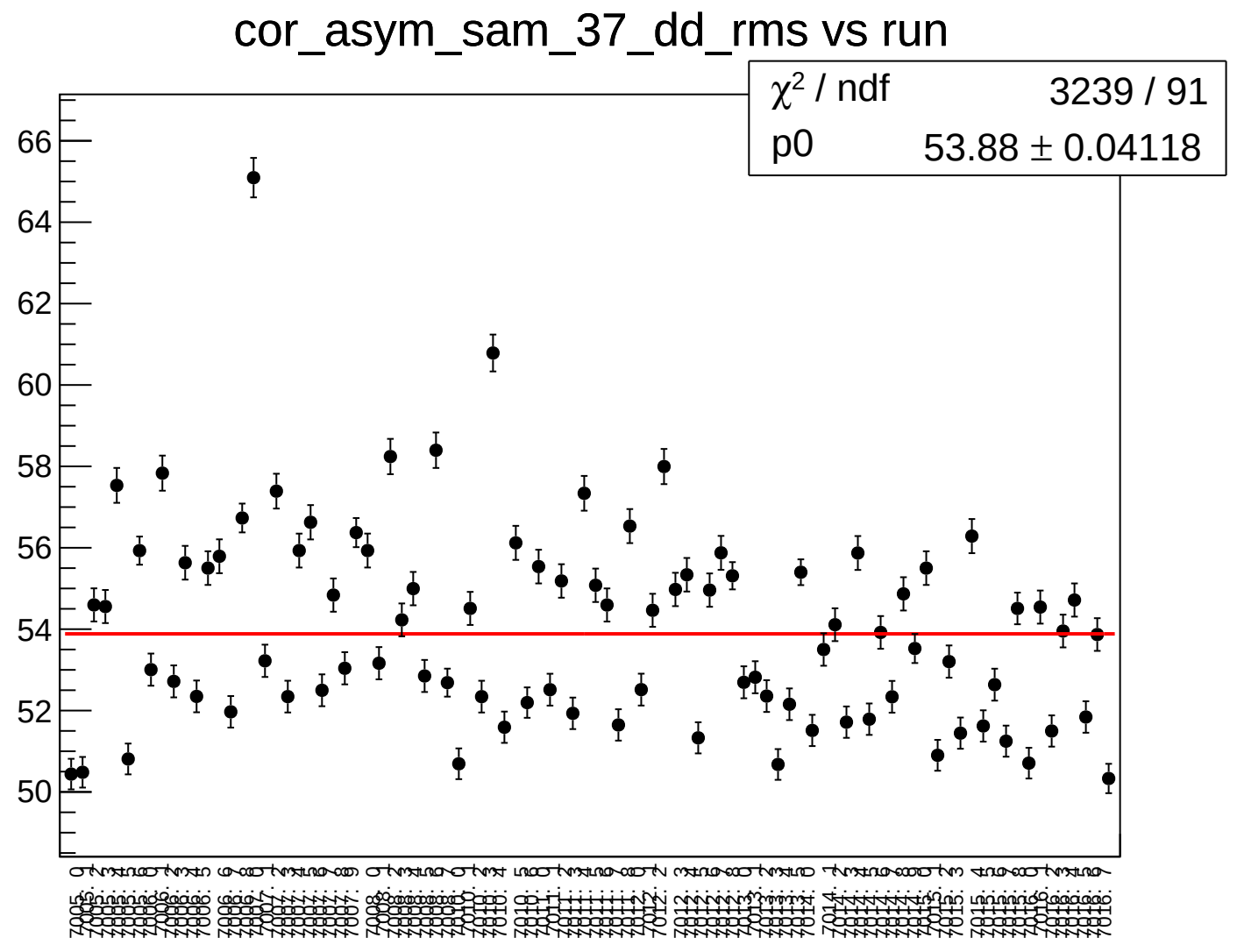

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 79.01 / 91
p0 −408.7 ± 380
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 4.824
Std Dev 68.46
2
1
0
−1
−2

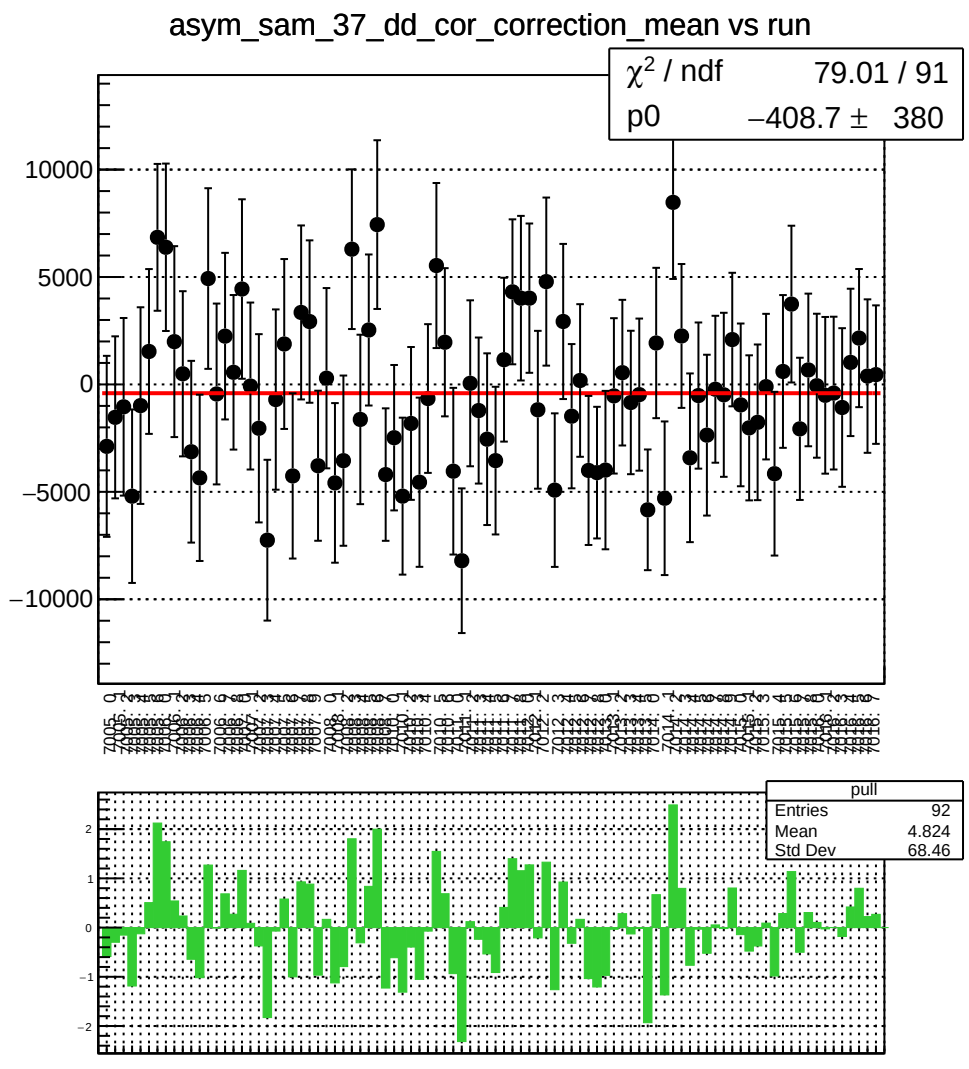

pull1D
Entries 92
Mean 0.01026
Std Dev 0.9267
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

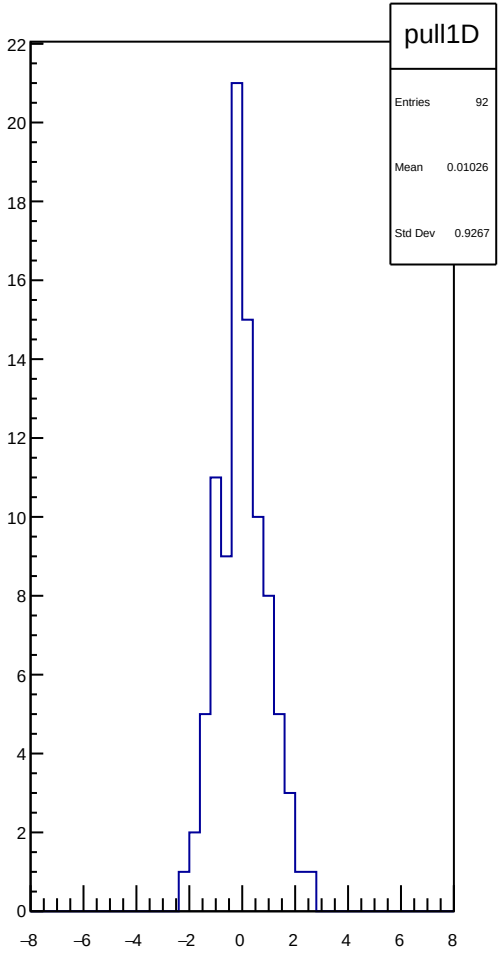

asym_sam_37_dd_reg_correction_rms vs run
$\chi^2$ / ndf 9936 / 91
p0 350.9 ± 0.2687
440
420
400
380
360
340
320
300

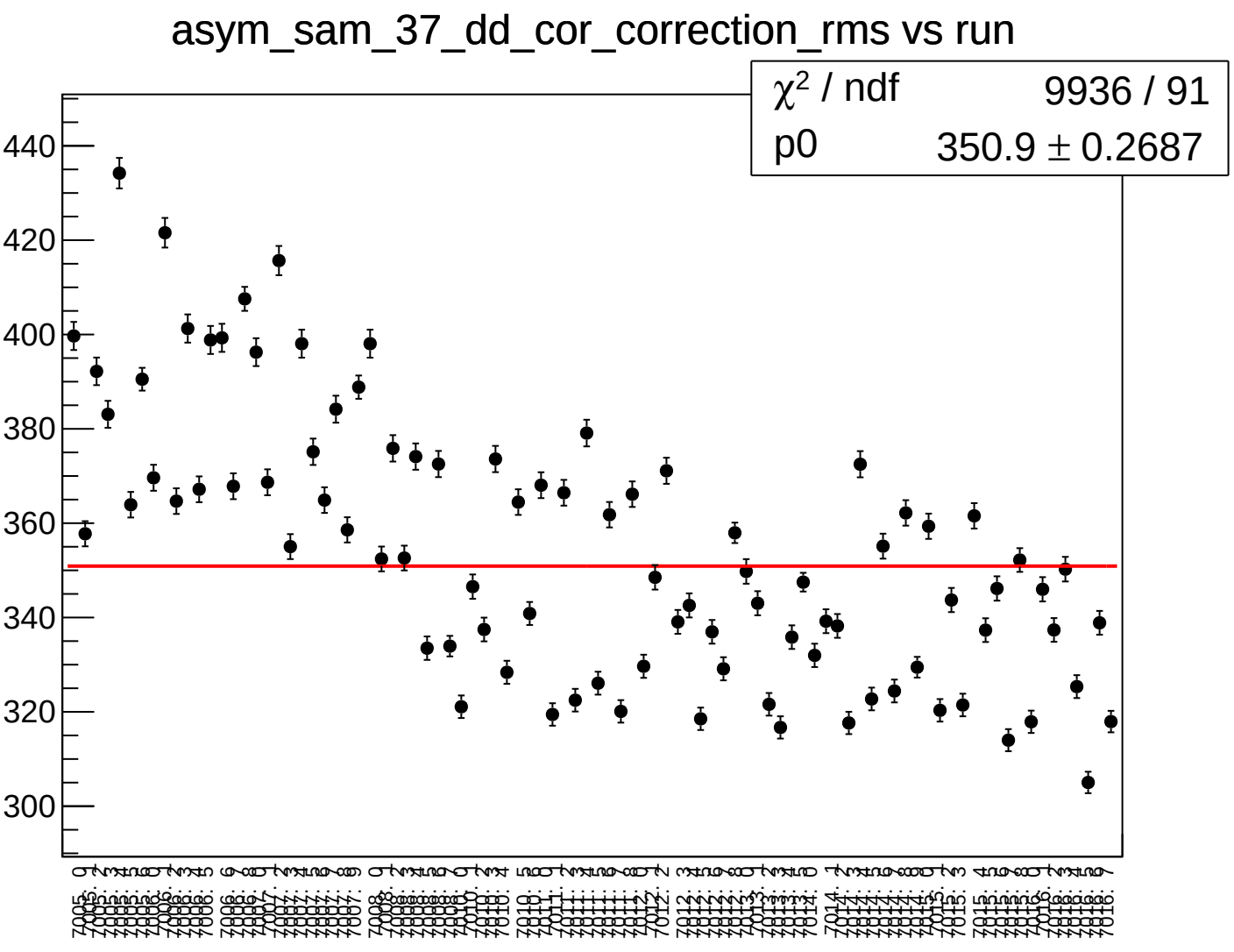

cor_asym_sam_37_dd_mean vs run
χ² / ndf 81.47 / 91
p0 −206.9 ± 58.24
pull
Entries 92
Mean −920.4
Std Dev 0

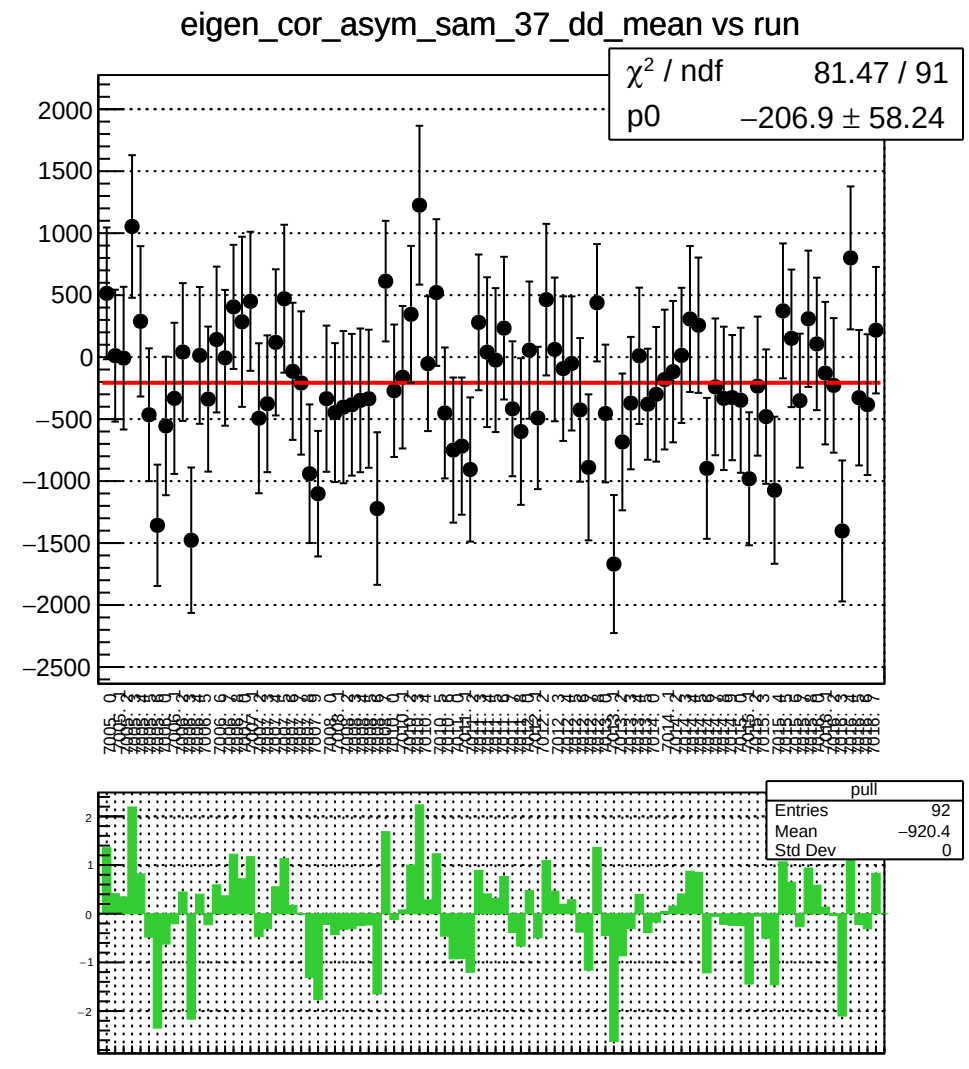

pull1D
Entries 92
Mean 0.001704
Std Dev 0.941

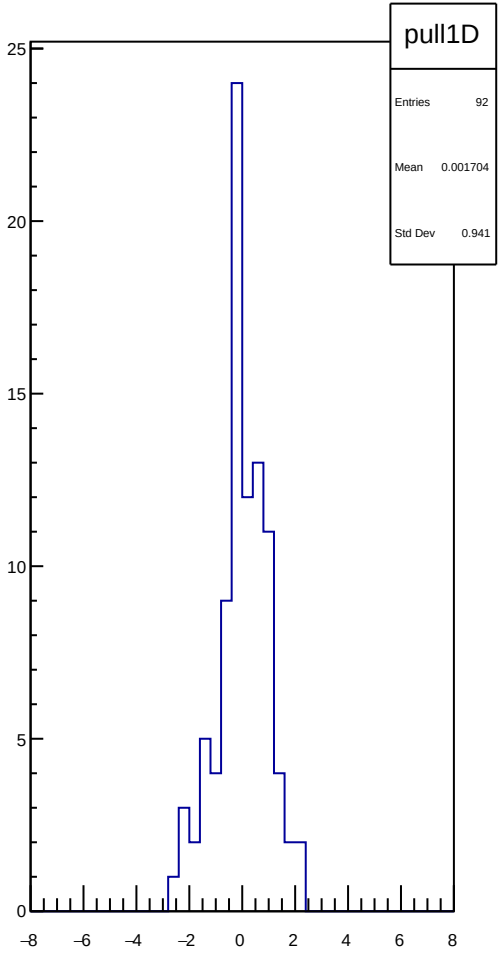

cor_asym_sam_37_dd_rms vs run
χ² / ndf 3239 / 91
p0 53.88 ± 0.04118
66
64
62
60
58
56
54
52
50

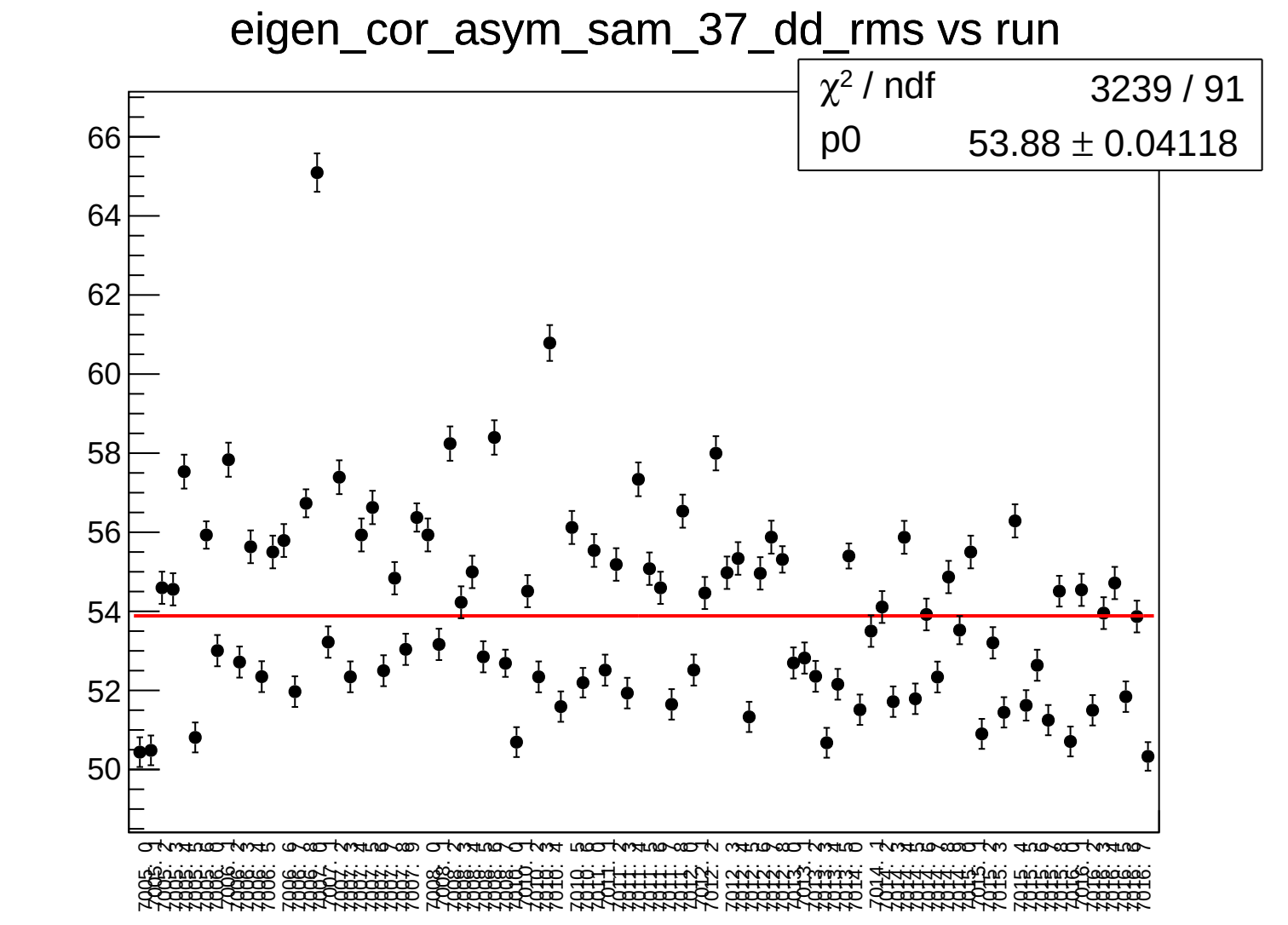

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 79.01 / 91
p0 −408.7 ± 380
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 4.824
Std Dev 68.46
2
1
0
−1
−2

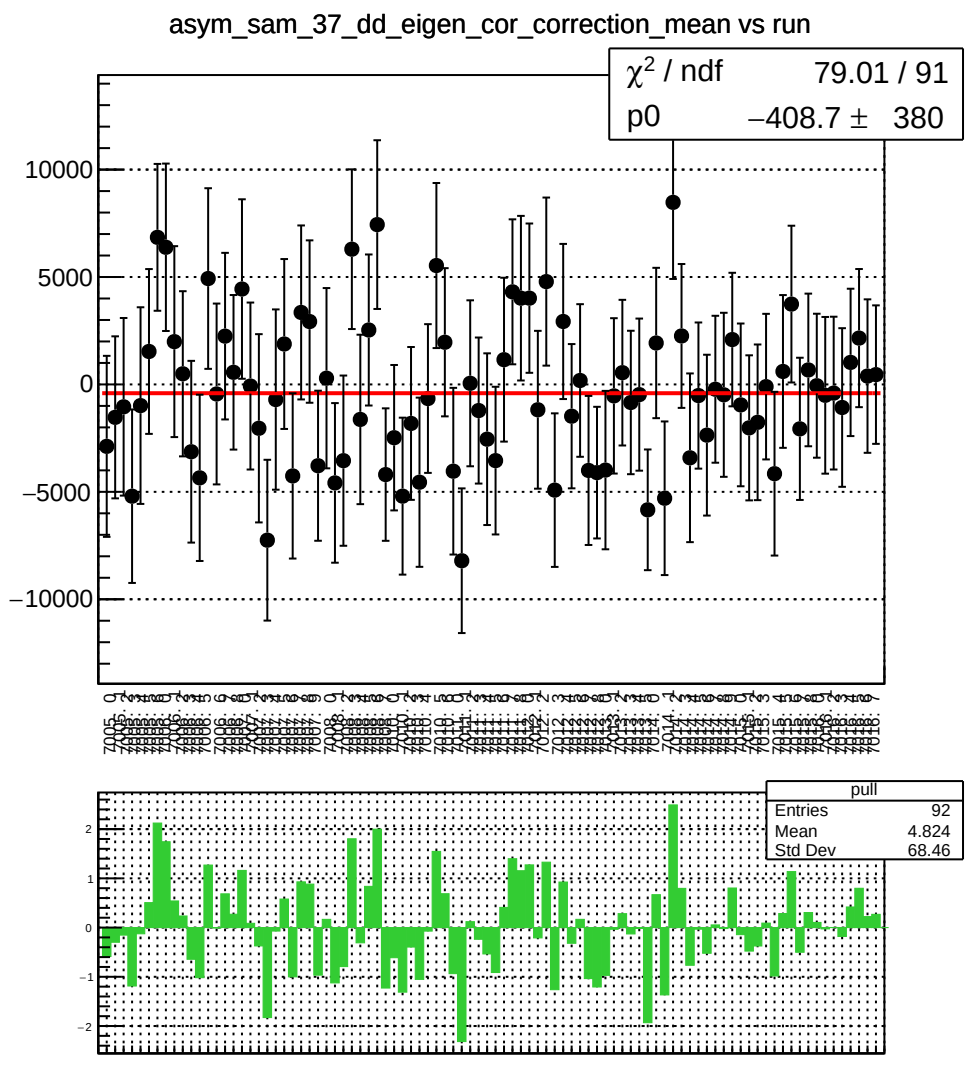

pull1D
Entries 92
Mean 0.01026
Std Dev 0.9267
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

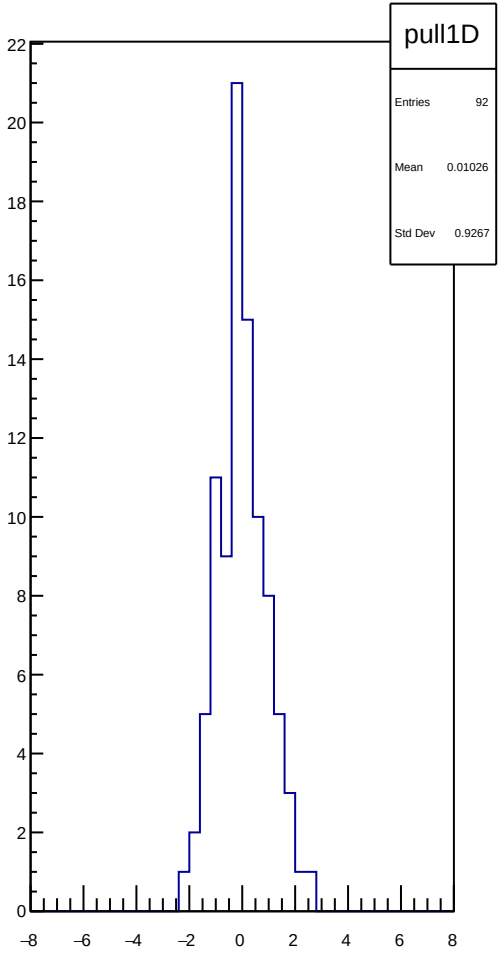

asym_sam_37_dd_cor_correction_rms vs run
$\chi^2$ / ndf 9936 / 91
p0 350.9 ± 0.2687
440
420
400
380
360
340
320
300

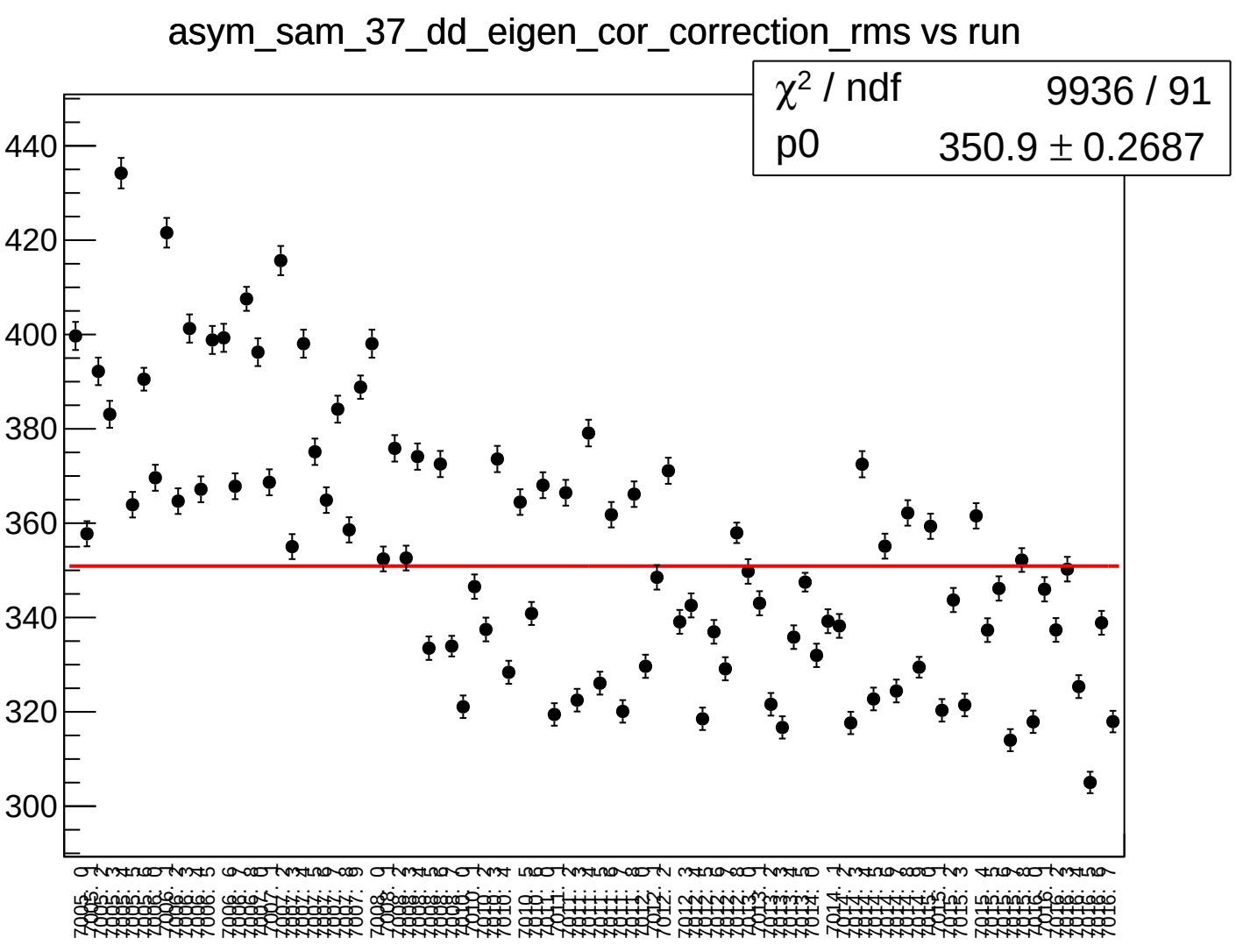

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 81.47 / 91
p0 −206.9 ± 58.24
pull
Entries 92
Mean −920.4
Std Dev 0

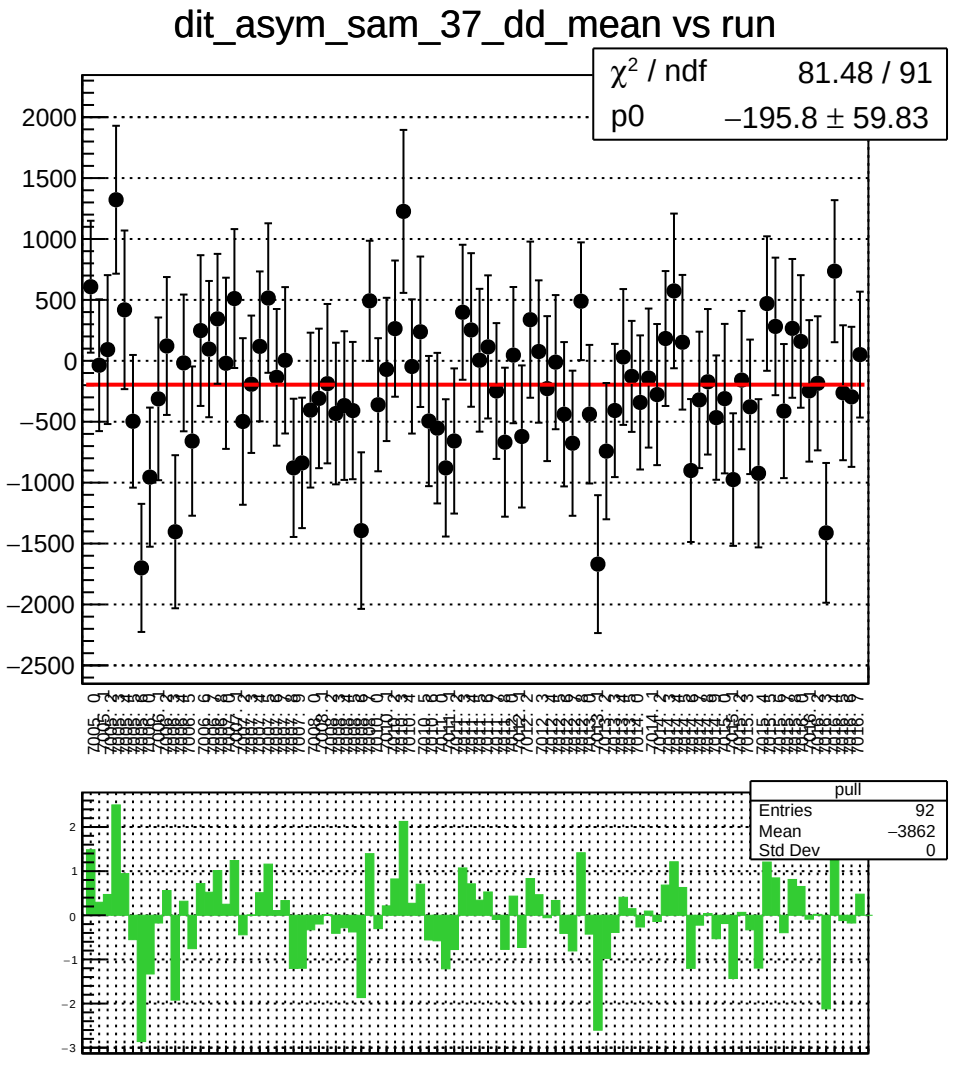

pull1D
Entries 92
Mean 0.001704
Std Dev 0.941

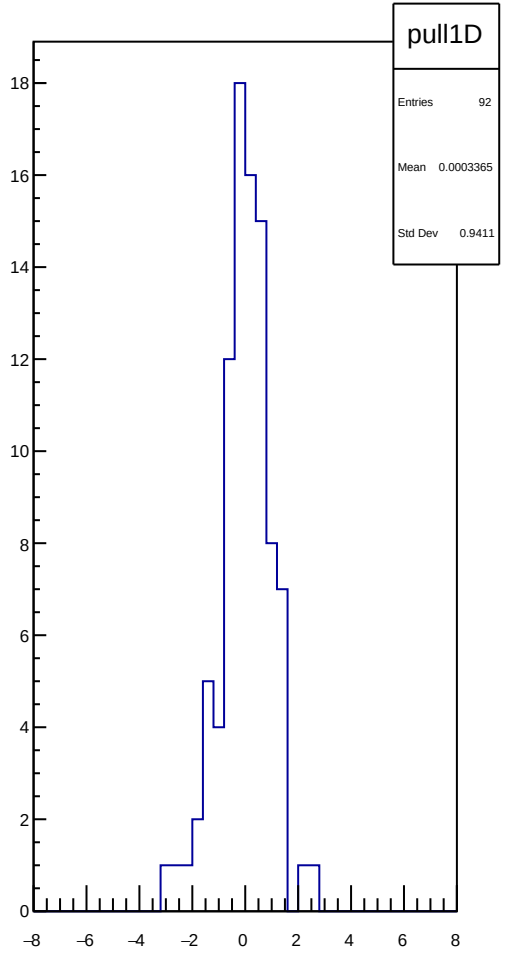

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 3239 / 91
p0 53.88 ± 0.04118
66
64
62
60
58
56
54
52
50

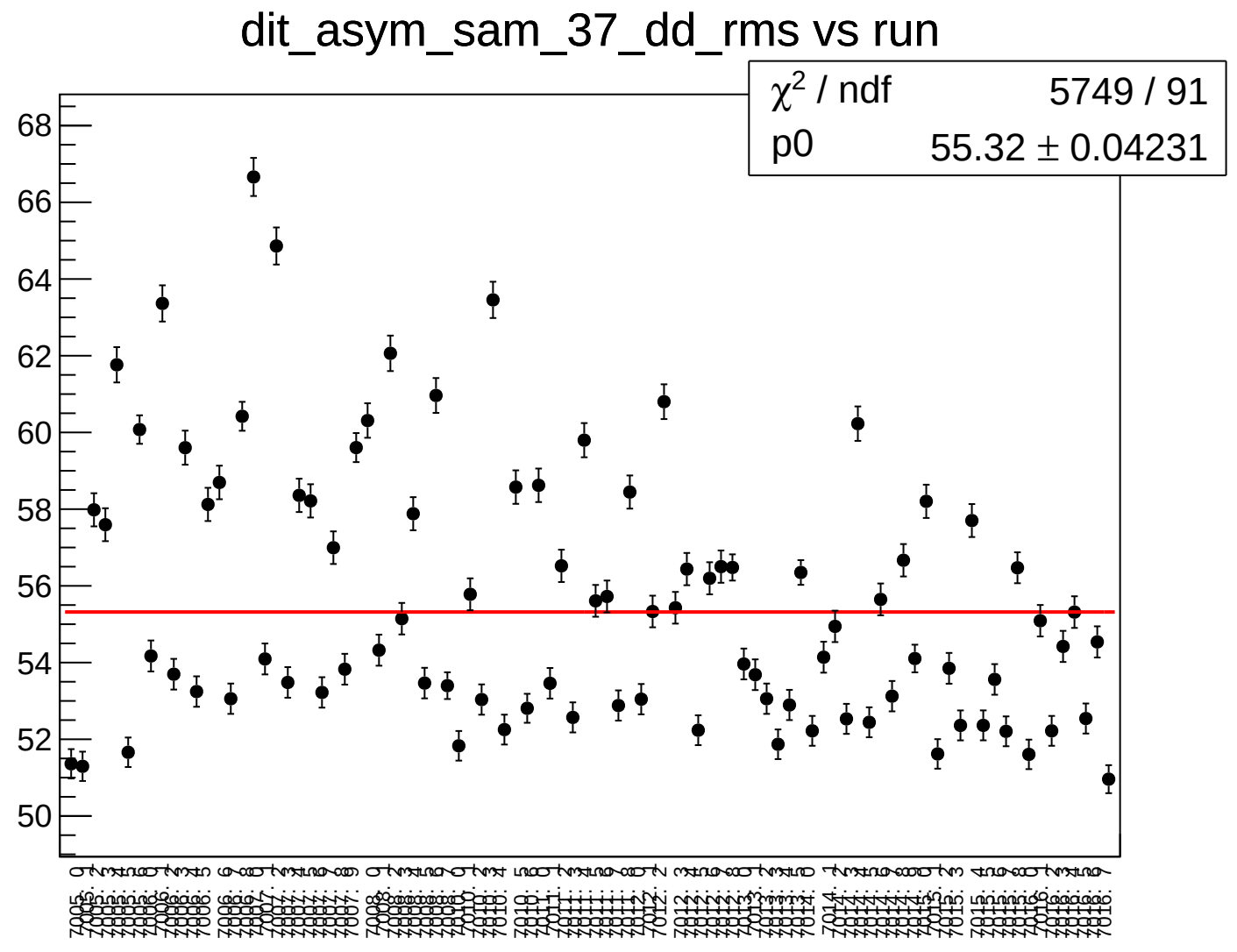

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.01 / 91
p0 −408.7 ± 380
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 4.824
Std Dev 68.46
2
1
0
−1
−2

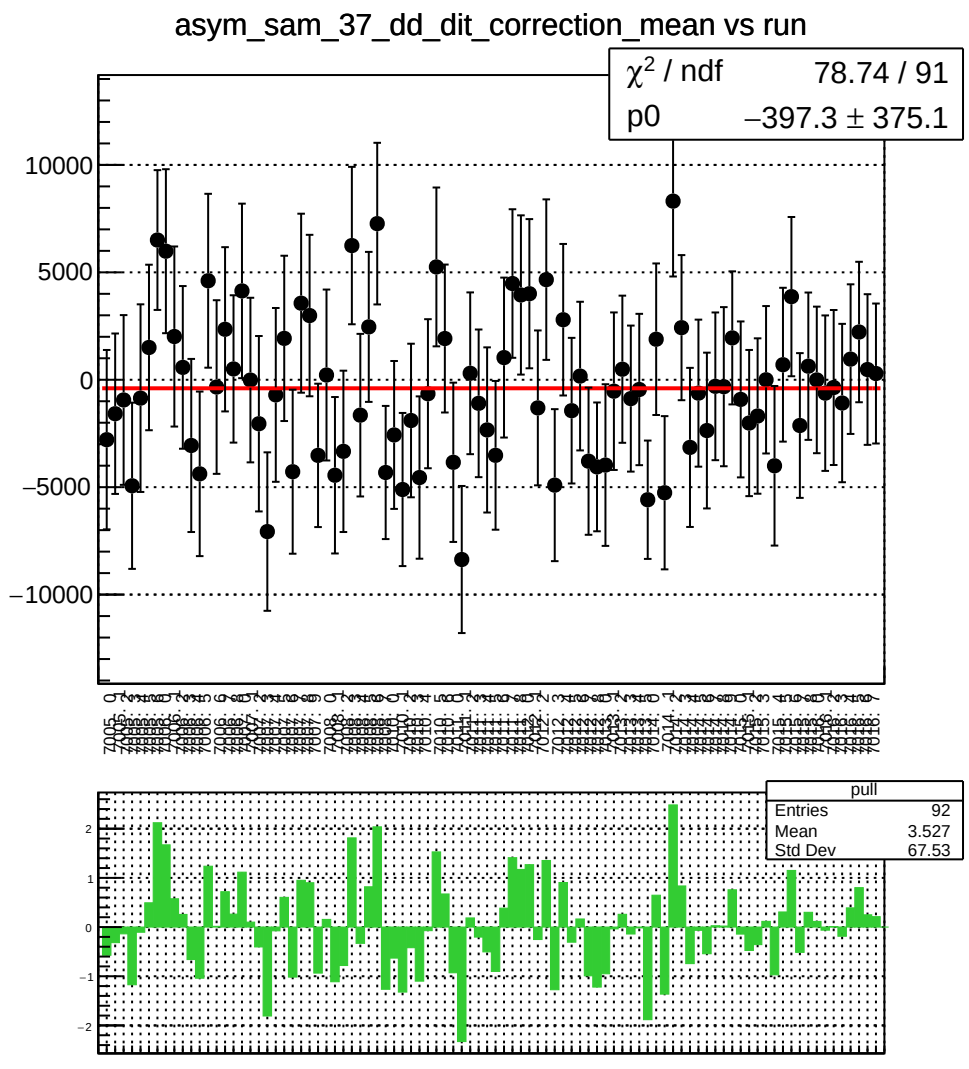

pull1D
Entries 92
Mean 0.01026
Std Dev 0.9267
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

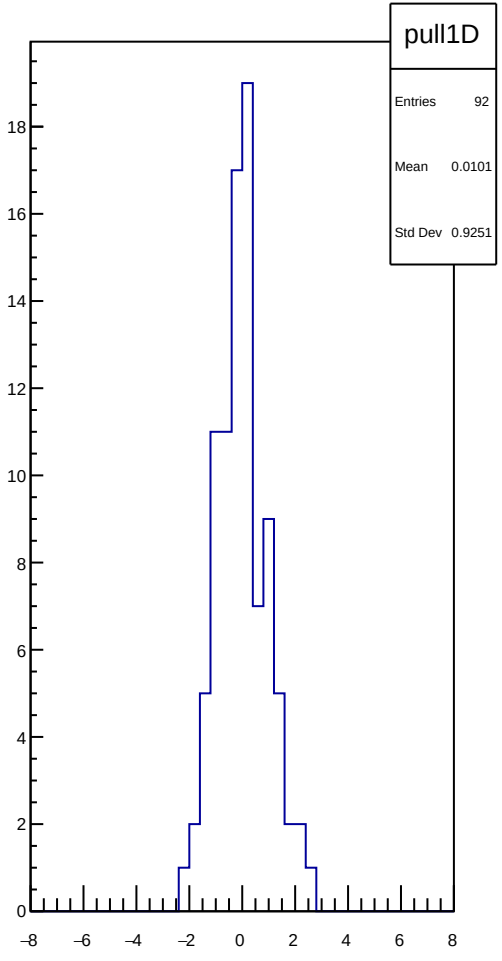

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 9936 / 91
p0 350.9 ± 0.2687
440
420
400
380
360
340
320
300

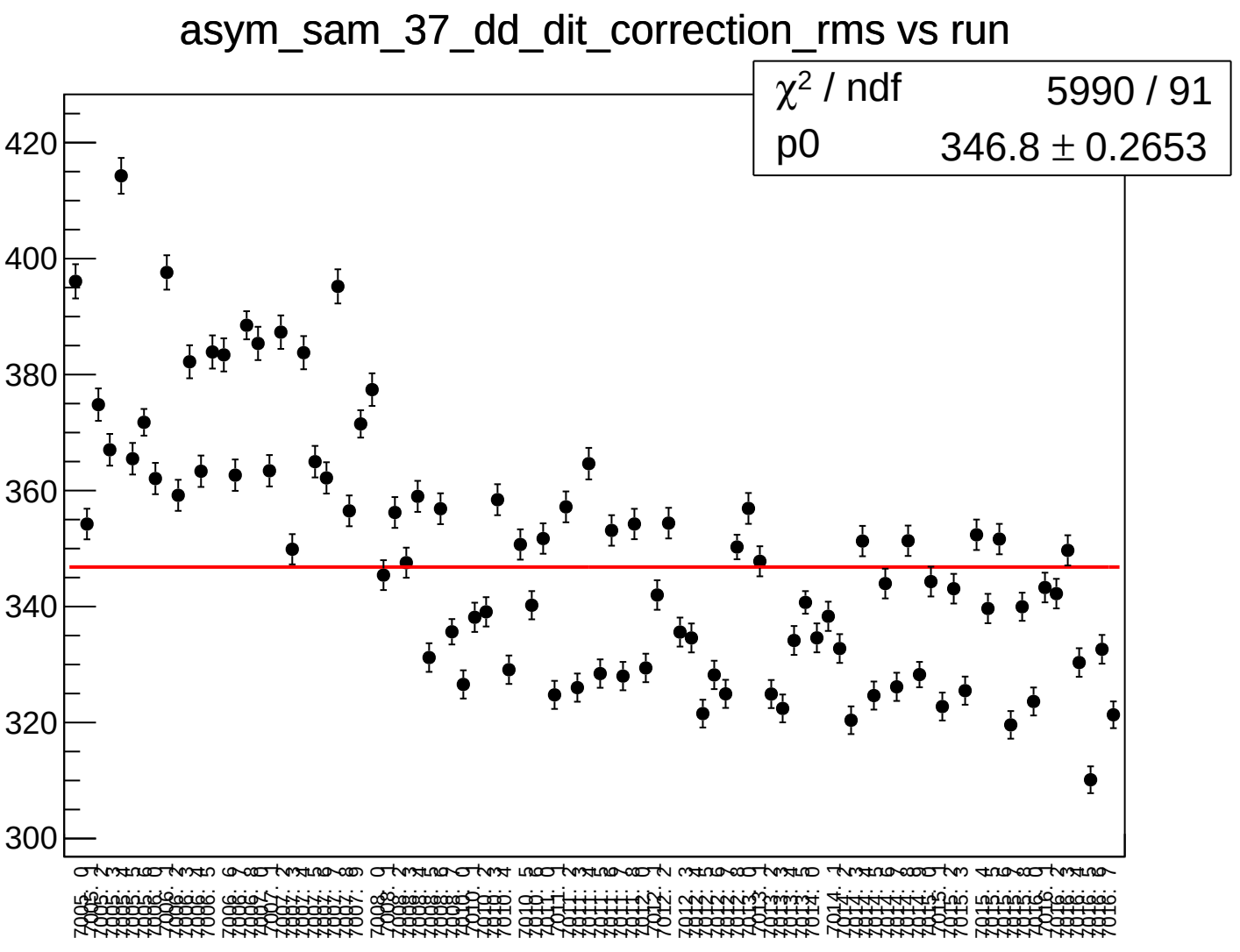

dit_asym_sam_37_dd_mean vs run
χ² / ndf 81.48 / 91
p0 −195.8 ± 59.83
pull
Entries 92
Mean −3862
Std Dev 0

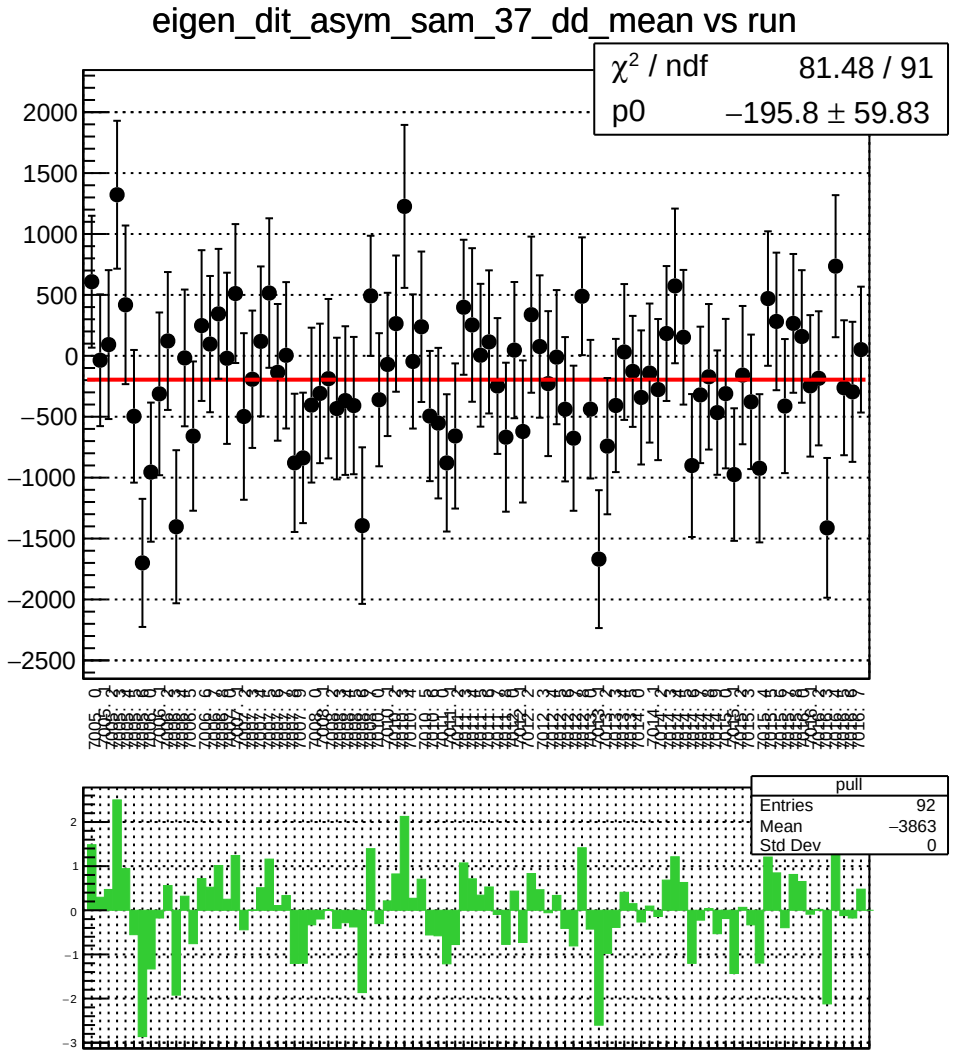

pull1D
Entries 92
Mean 0.0003365
Std Dev 0.9411

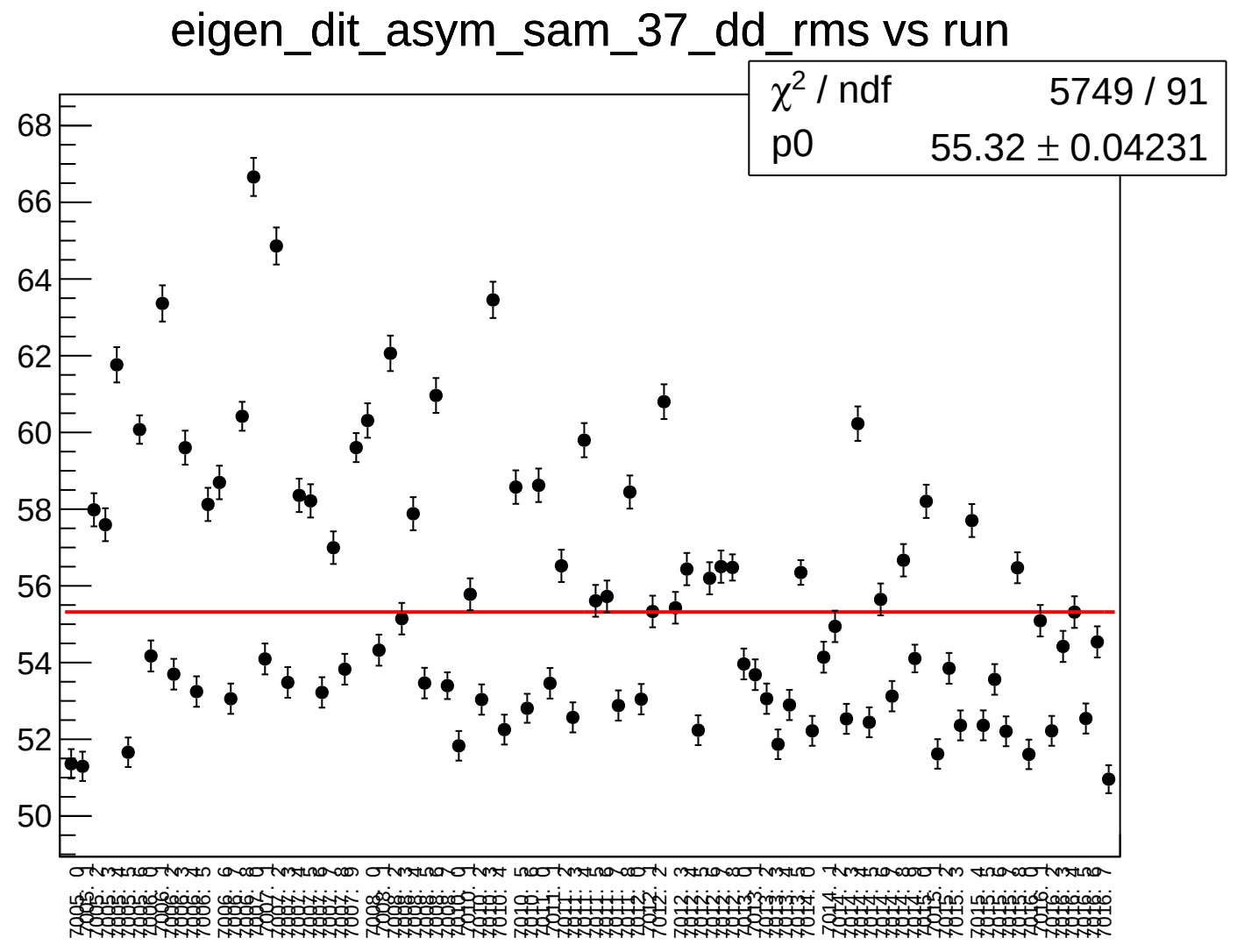

dit_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 5749 / 91
p0 55.32 ± 0.04231
68
66
64
62
60
58
56
54
52
50

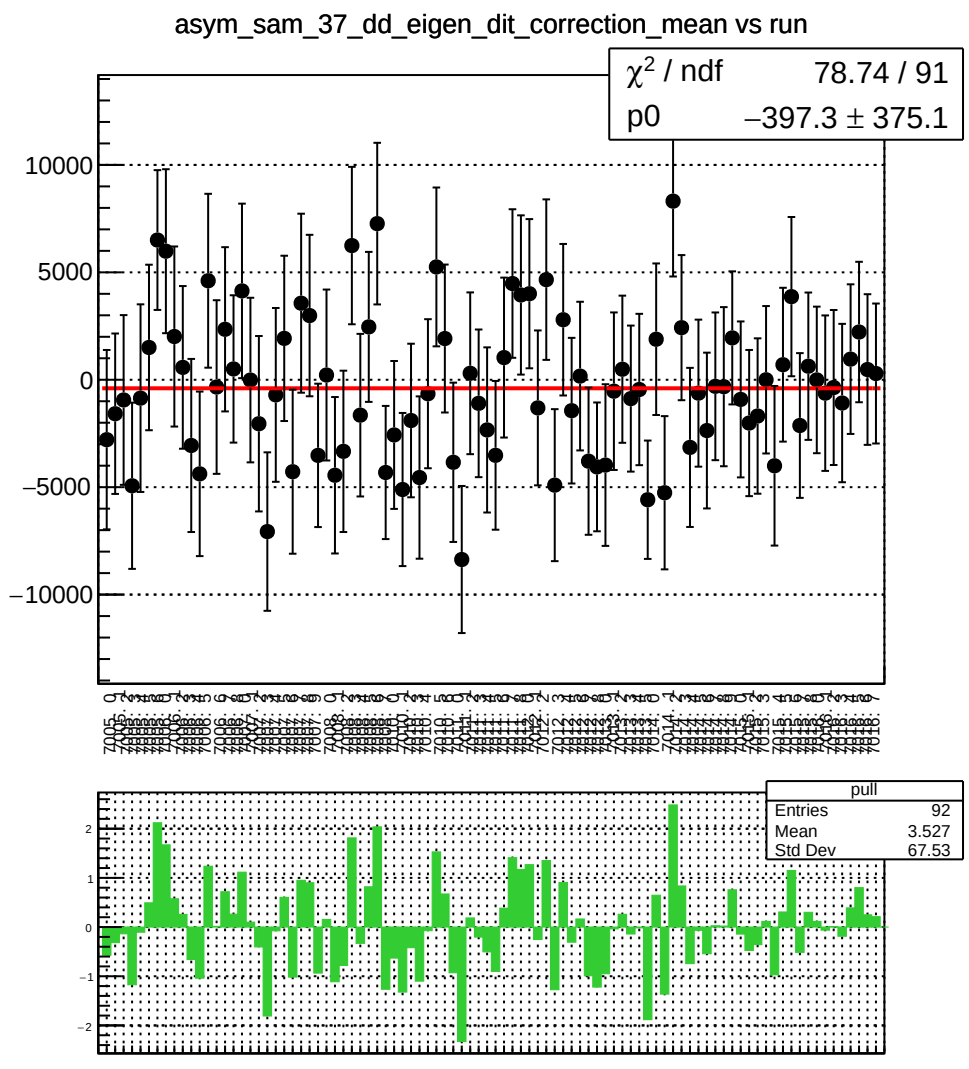

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 78.74 / 91
p0 −397.3 ± 375.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 3.527
Std Dev 67.53
2
1
0
−1
−2

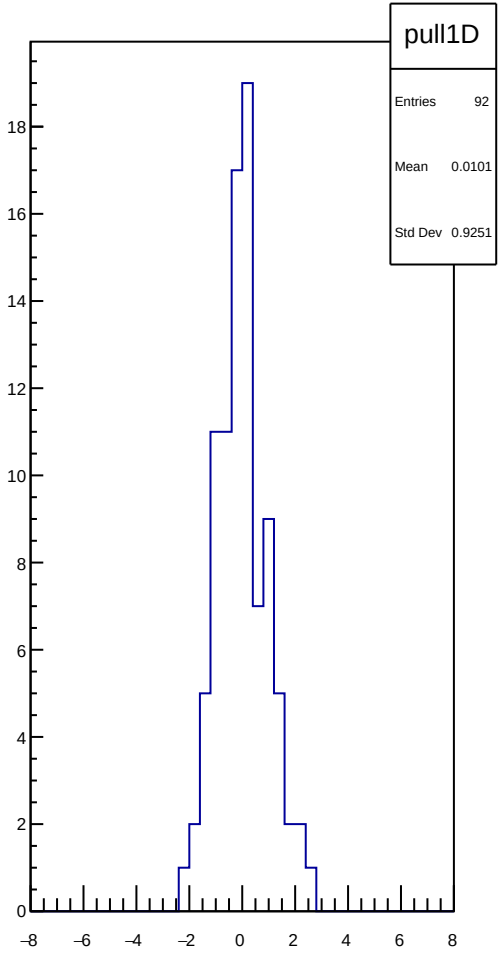

pull1D
Entries 92
Mean 0.0101
Std Dev 0.9251
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

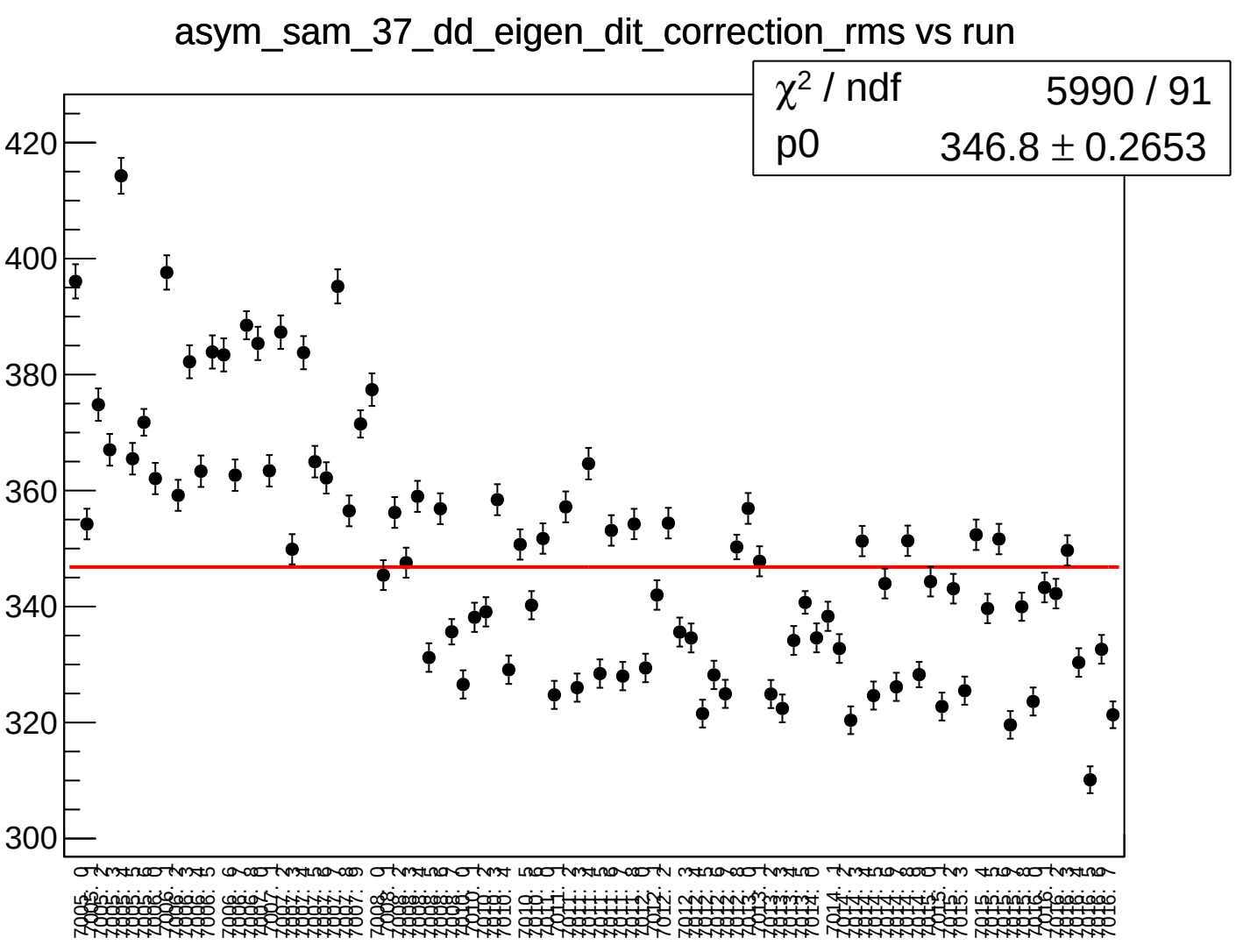

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 5990 / 91
p0 346.8 ± 0.2653
420
400
380
360
340
320
300

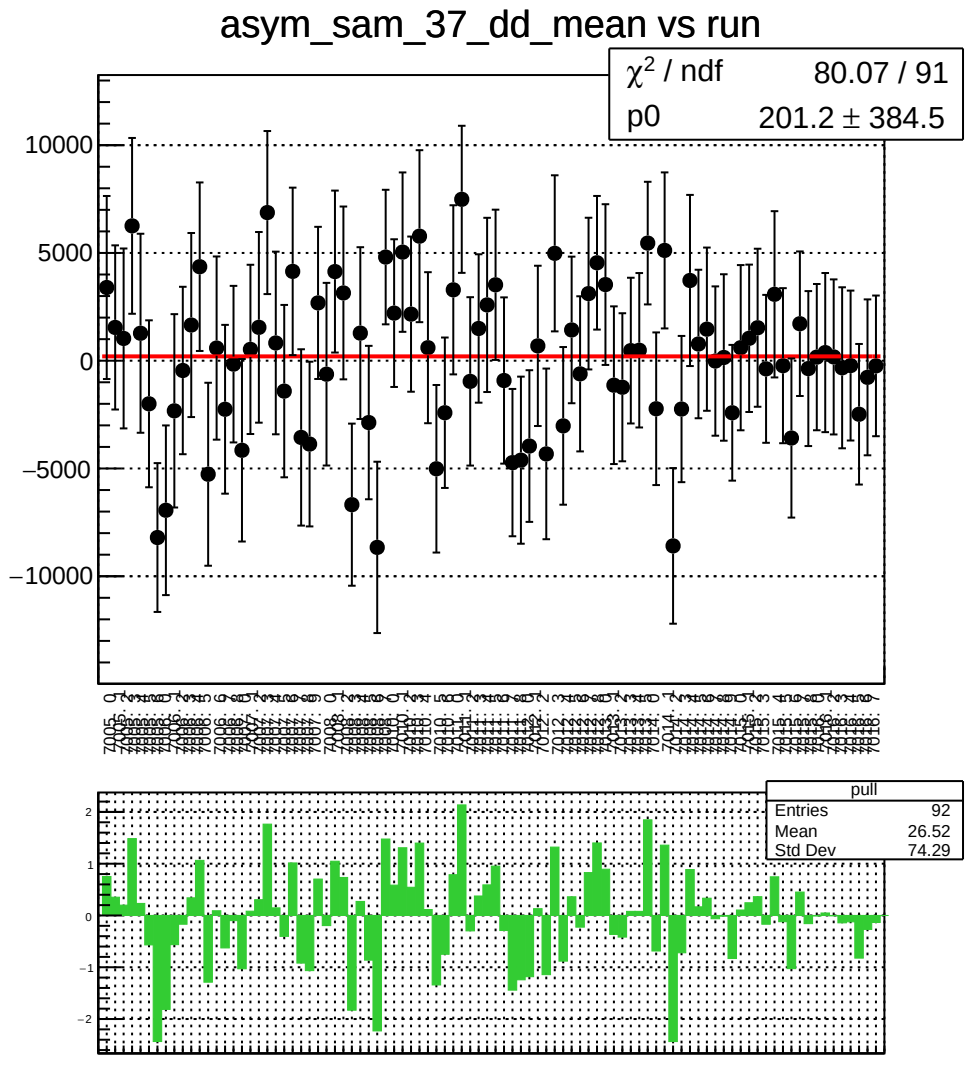

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 81.48 / 91
p0 −195.8 ± 59.83
pull
Entries 92
Mean −3863
Std Dev 0
pull1D
Entries 92
Mean 0.0003364
Std Dev 0.9411

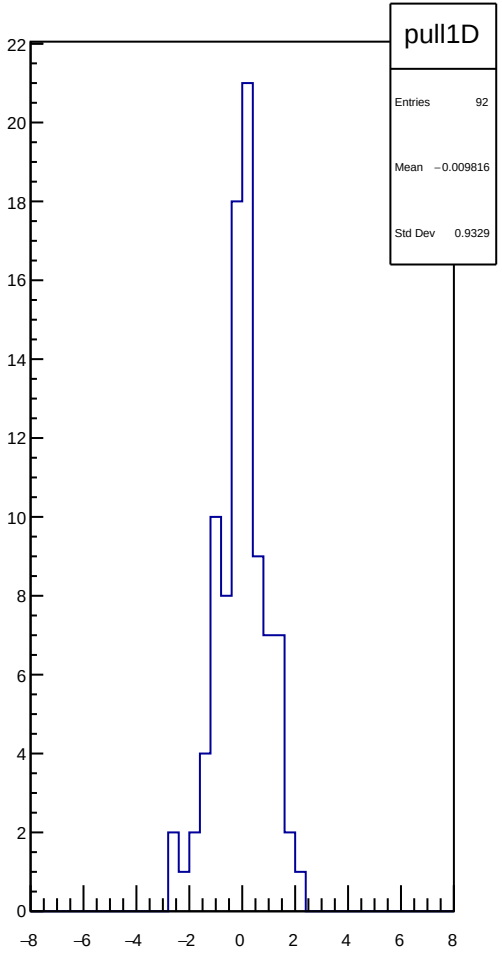

eigen_dit_asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 5749 / 91
p0 55.32 ± 0.04231
68
66
64
62
60
58
56
54
52
50

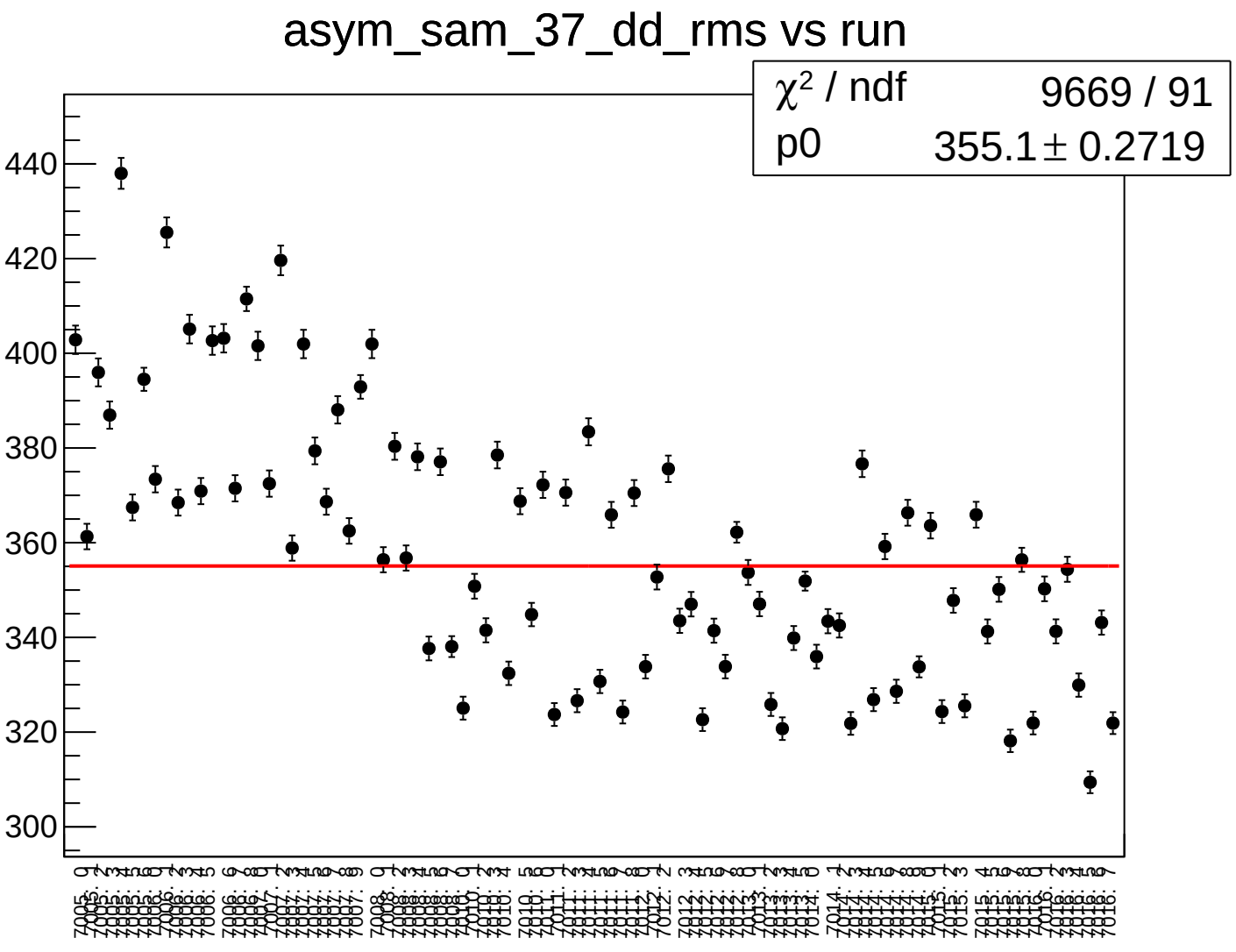

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.74 / 91
p0 −397.3 ± 375.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 3.527
Std Dev 67.53
2
1
0
−1
−2

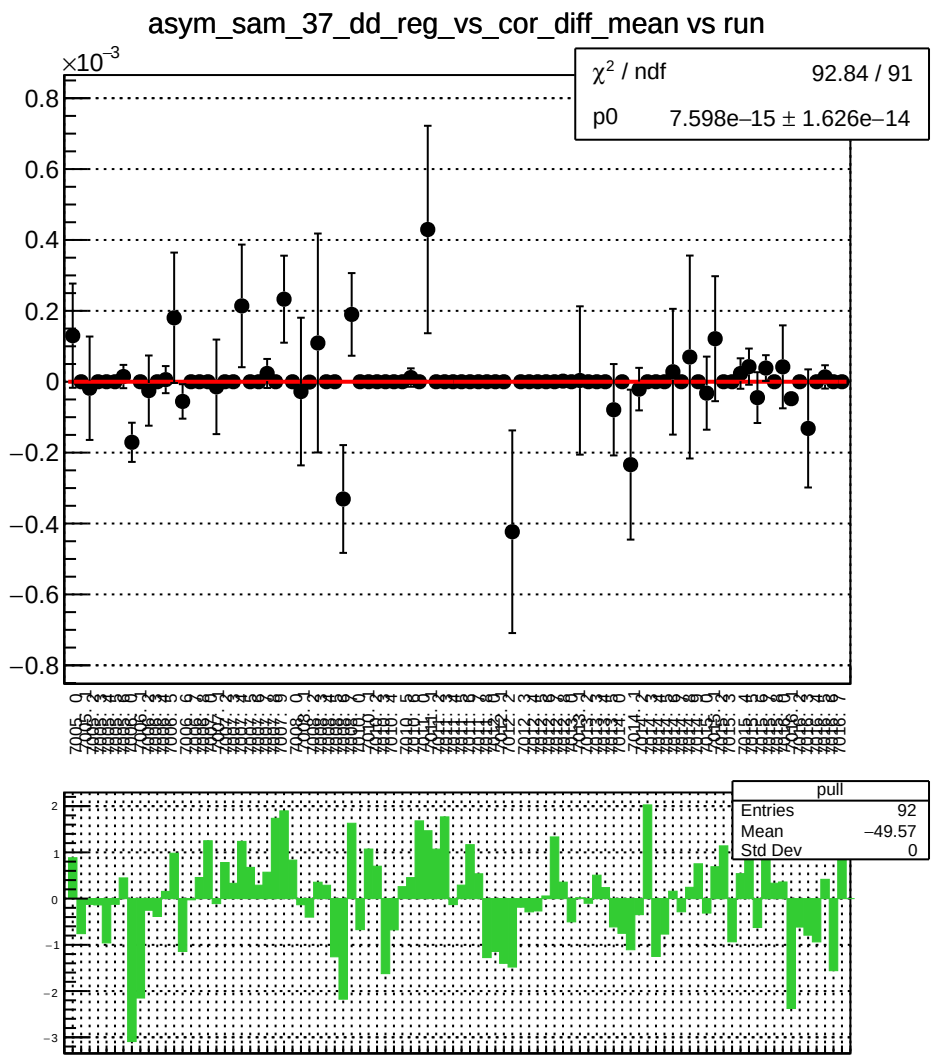

pull1D
Entries 92
Mean 0.0101
Std Dev 0.9251
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

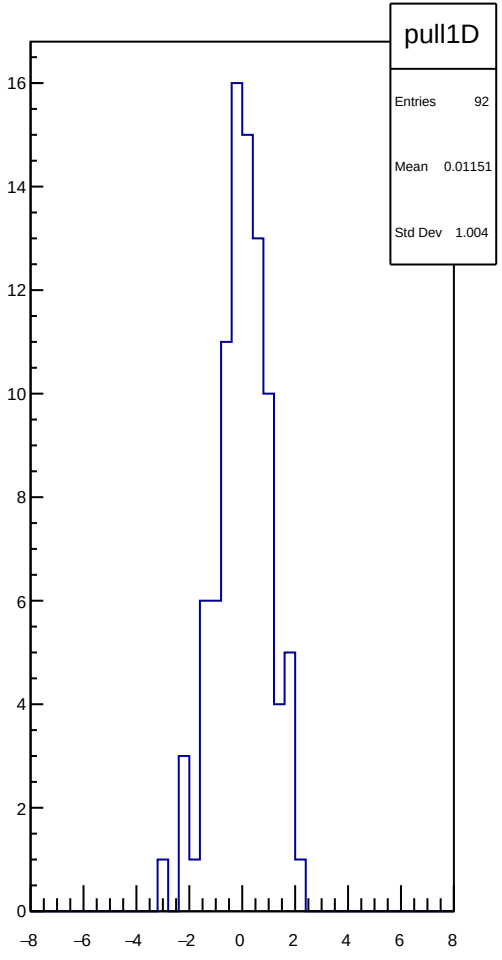

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 5990 / 91
p0 346.8 ± 0.2653
420
400
380
360
340
320
300

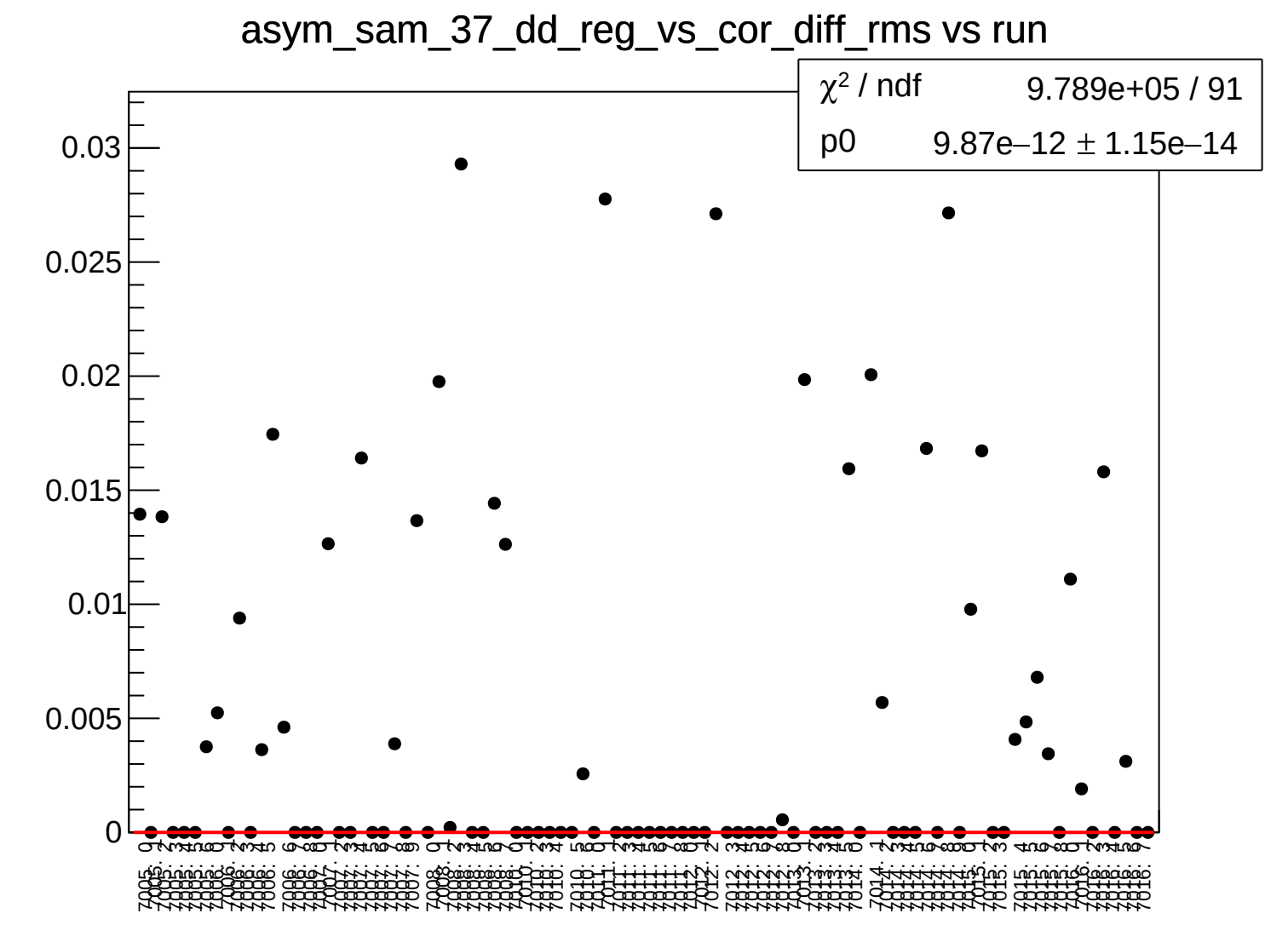

asym_sam_37_dd_mean vs run
χ² / ndf 80.07 / 91
p0 201.2 ± 384.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 26.52
Std Dev 74.29
2
1
0
−1
−2

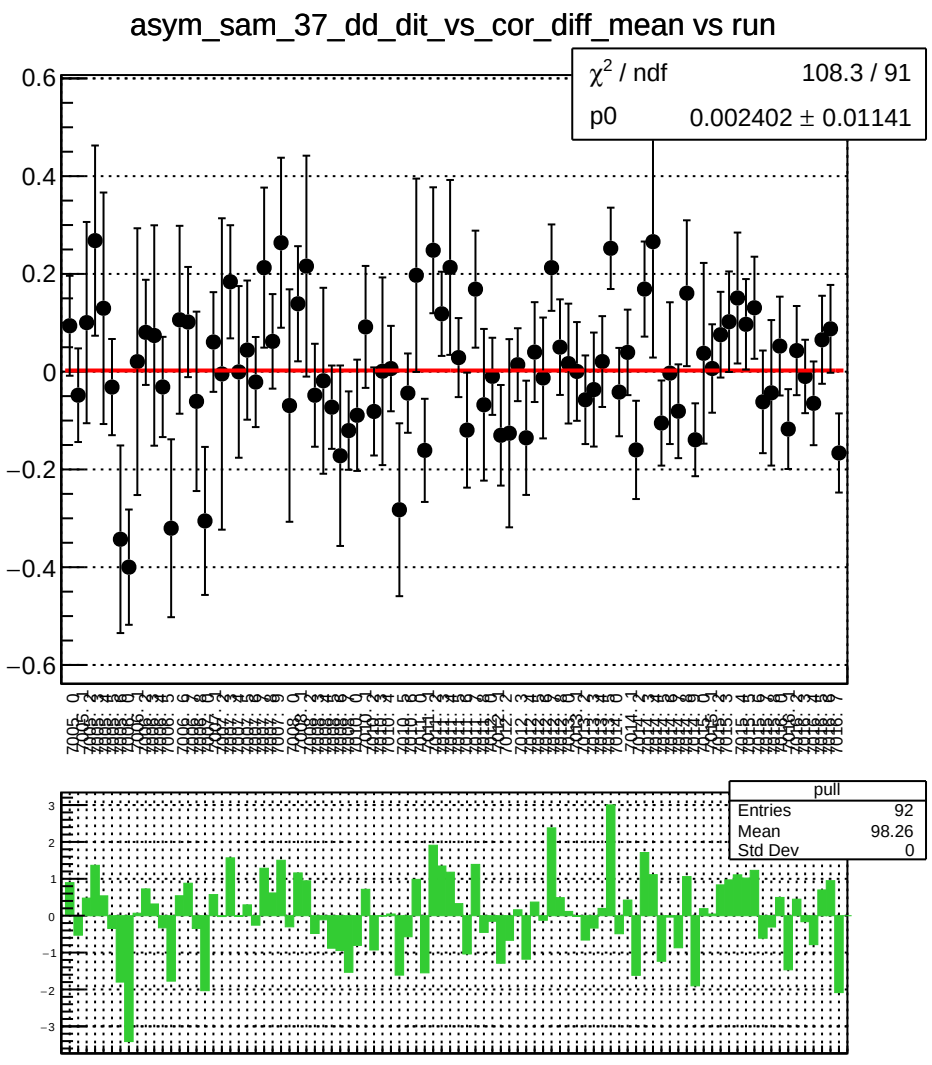

pull1D
Entries 92
Mean −0.009816
Std Dev 0.9329
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

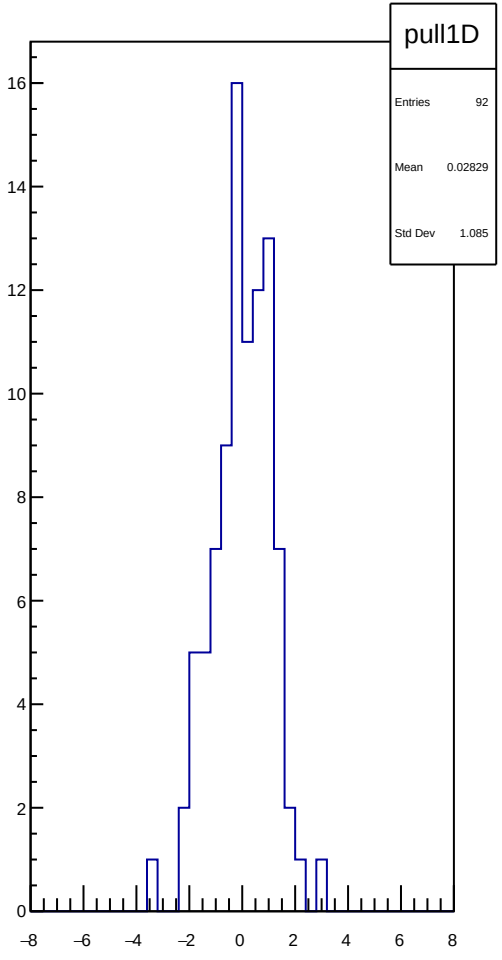

asym_sam_37_dd_rms vs run
$\chi^2$ / ndf 9669 / 91
p0 355.1 ± 0.2719
440
420
400
380
360
340
320
300

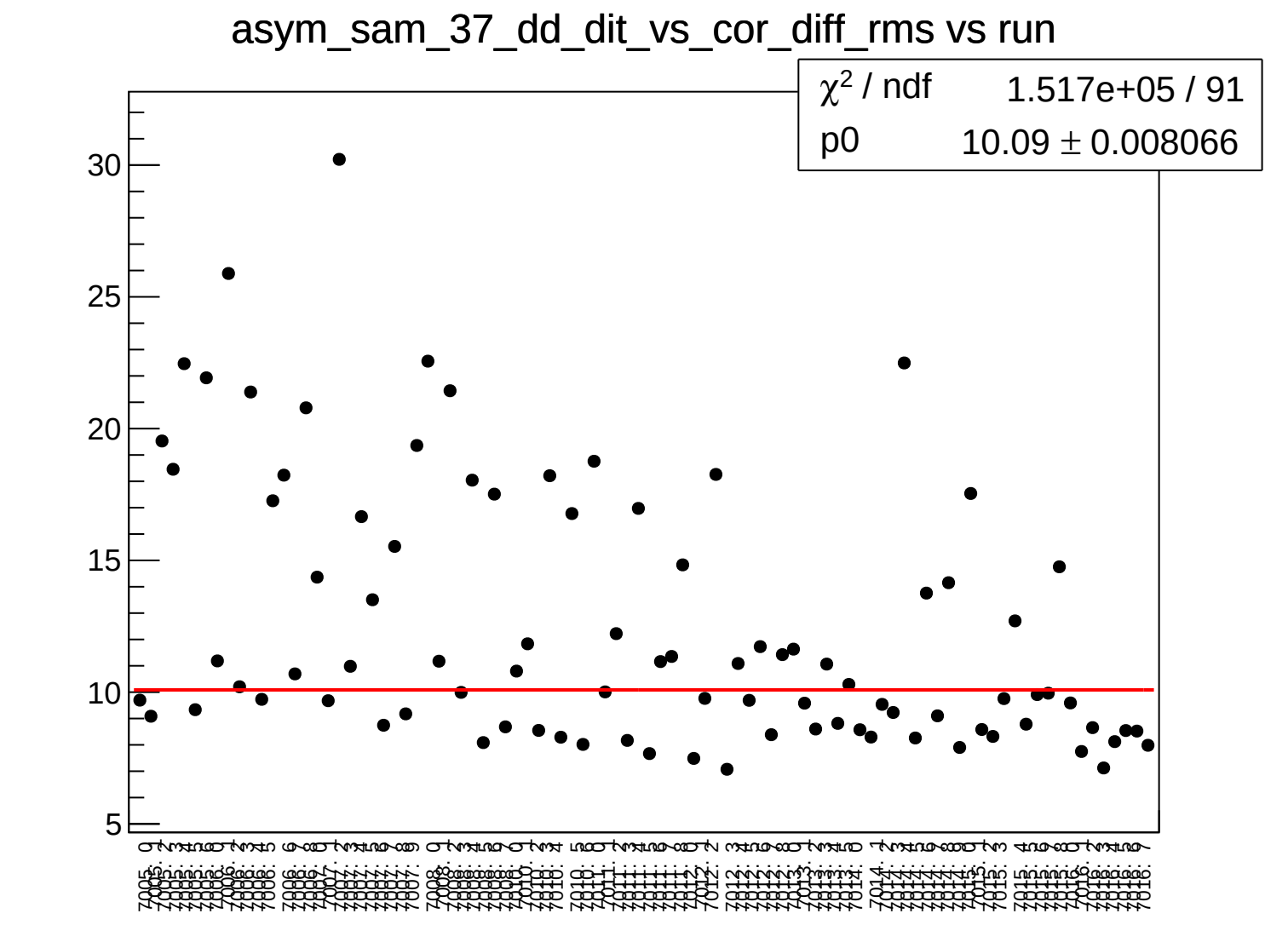

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 92.84 / 91
p0 7.598e−15 ± 1.626e−14
pull
Entries 92
Mean −49.57
Std Dev 0

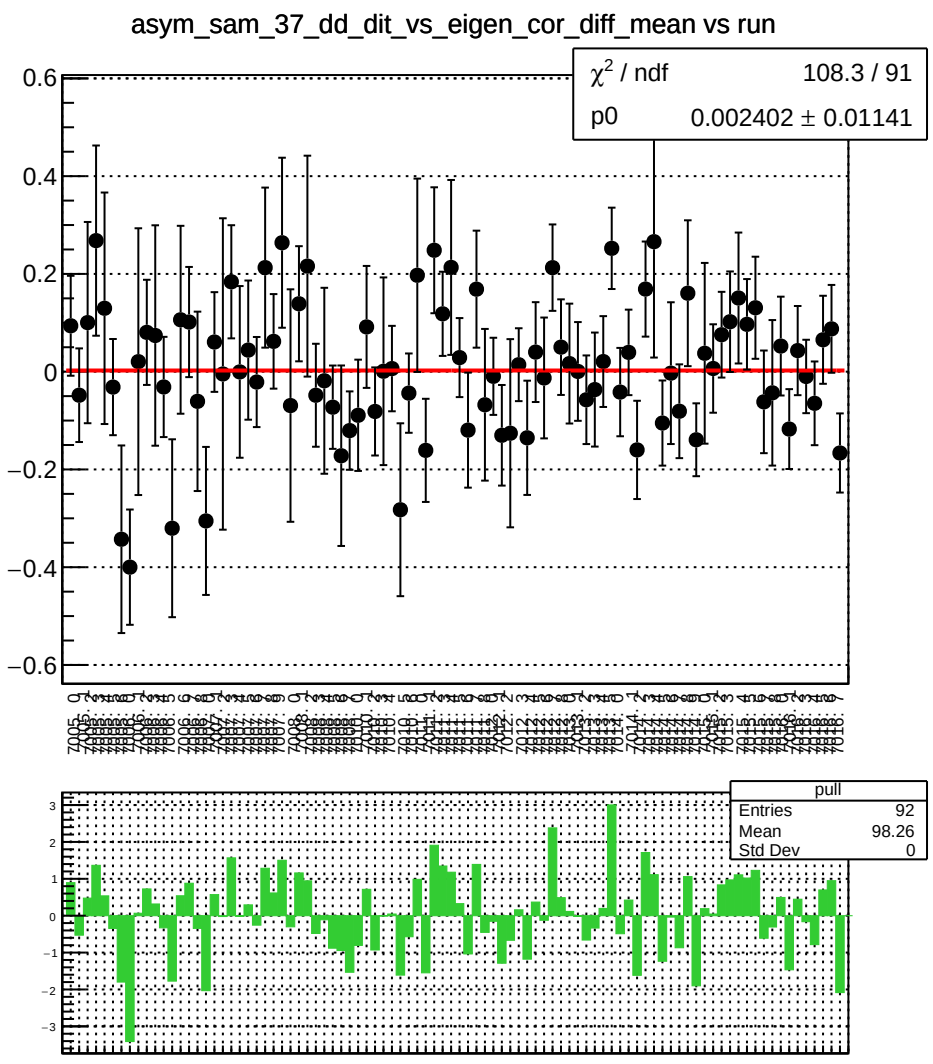

pull1D
Entries 92
Mean 0.01151
Std Dev 1.004

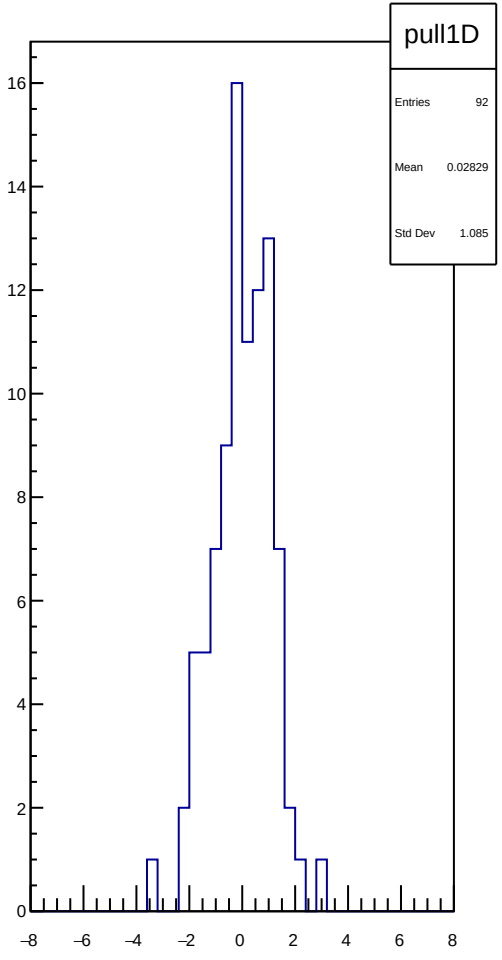

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.789e+05 / 91
p0 9.87e−12 ± 1.15e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

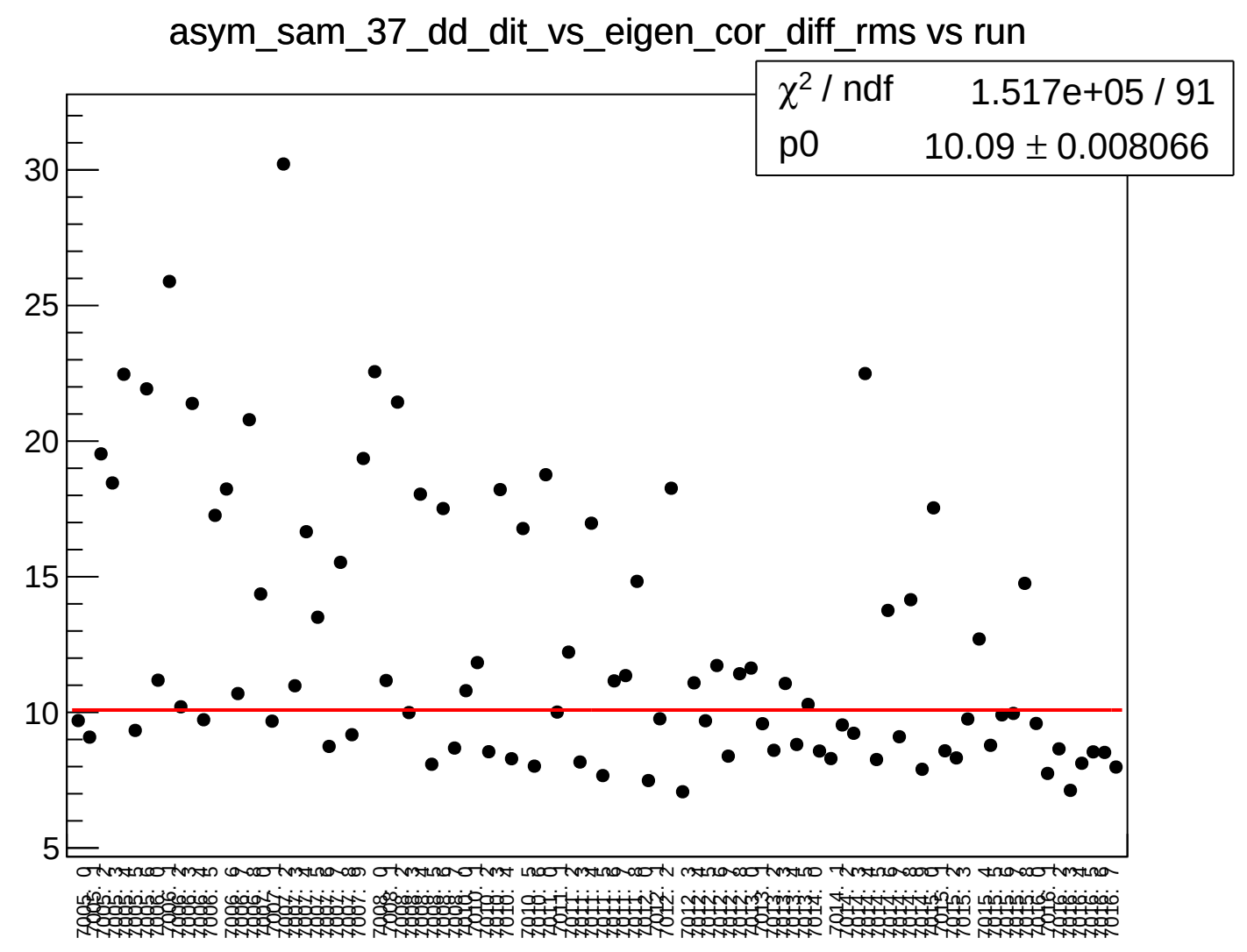

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 91
p0 0.002402 ± 0.01141
pull
Entries 92
Mean 98.26
Std Dev 0

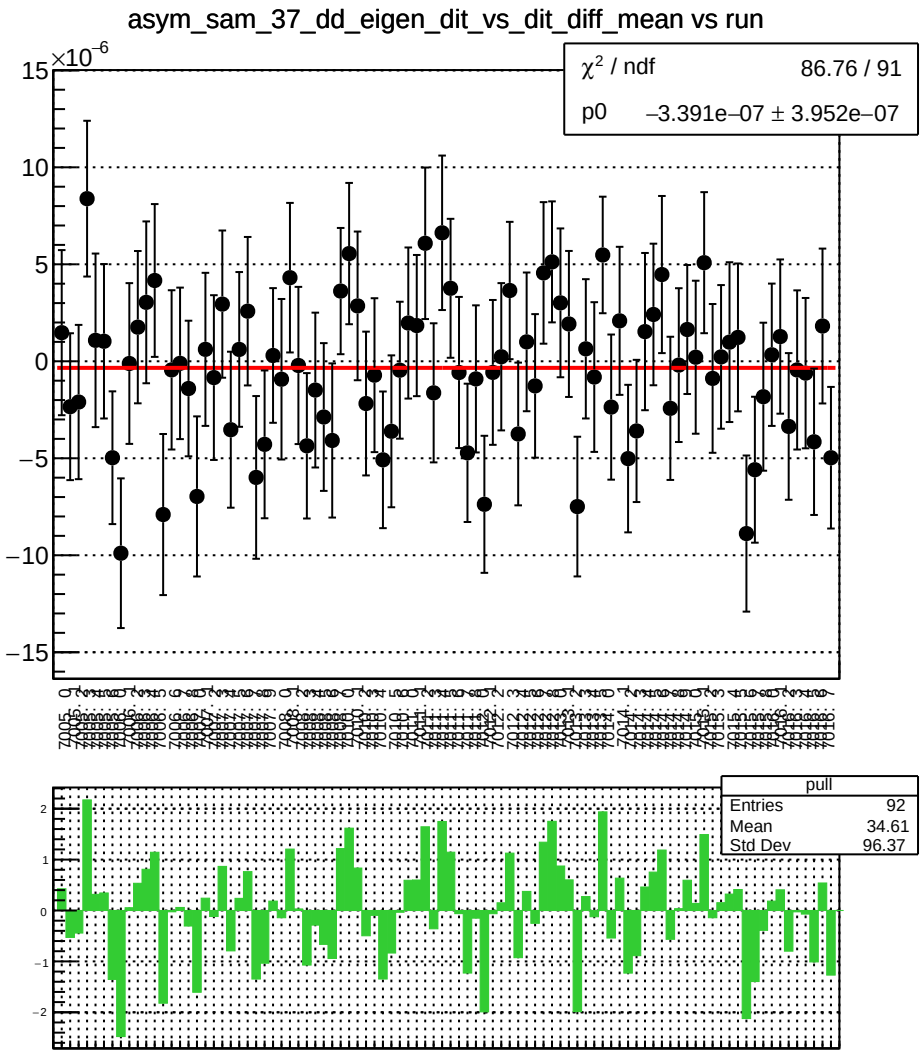

pull1D
Entries 92
Mean 0.02829
Std Dev 1.085

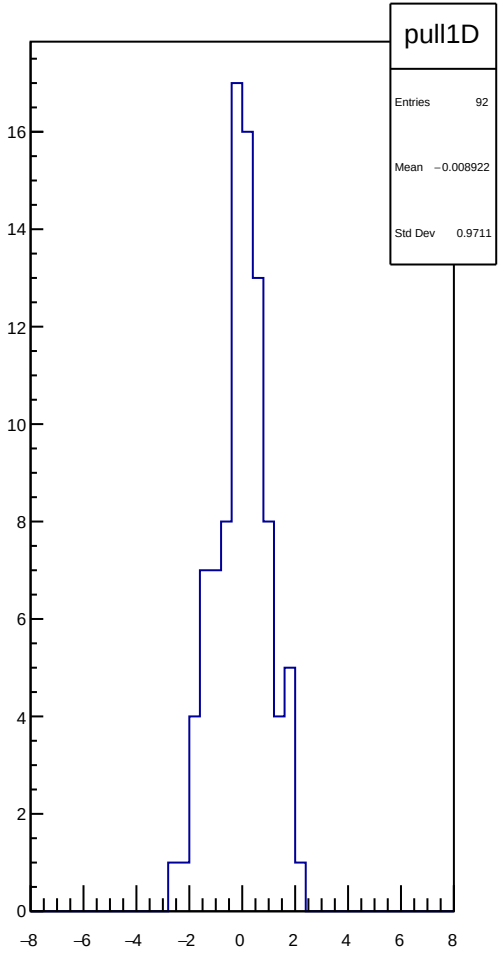

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.517e+05 / 91
p0 10.09 ± 0.008066
30
25
20
15
10
5

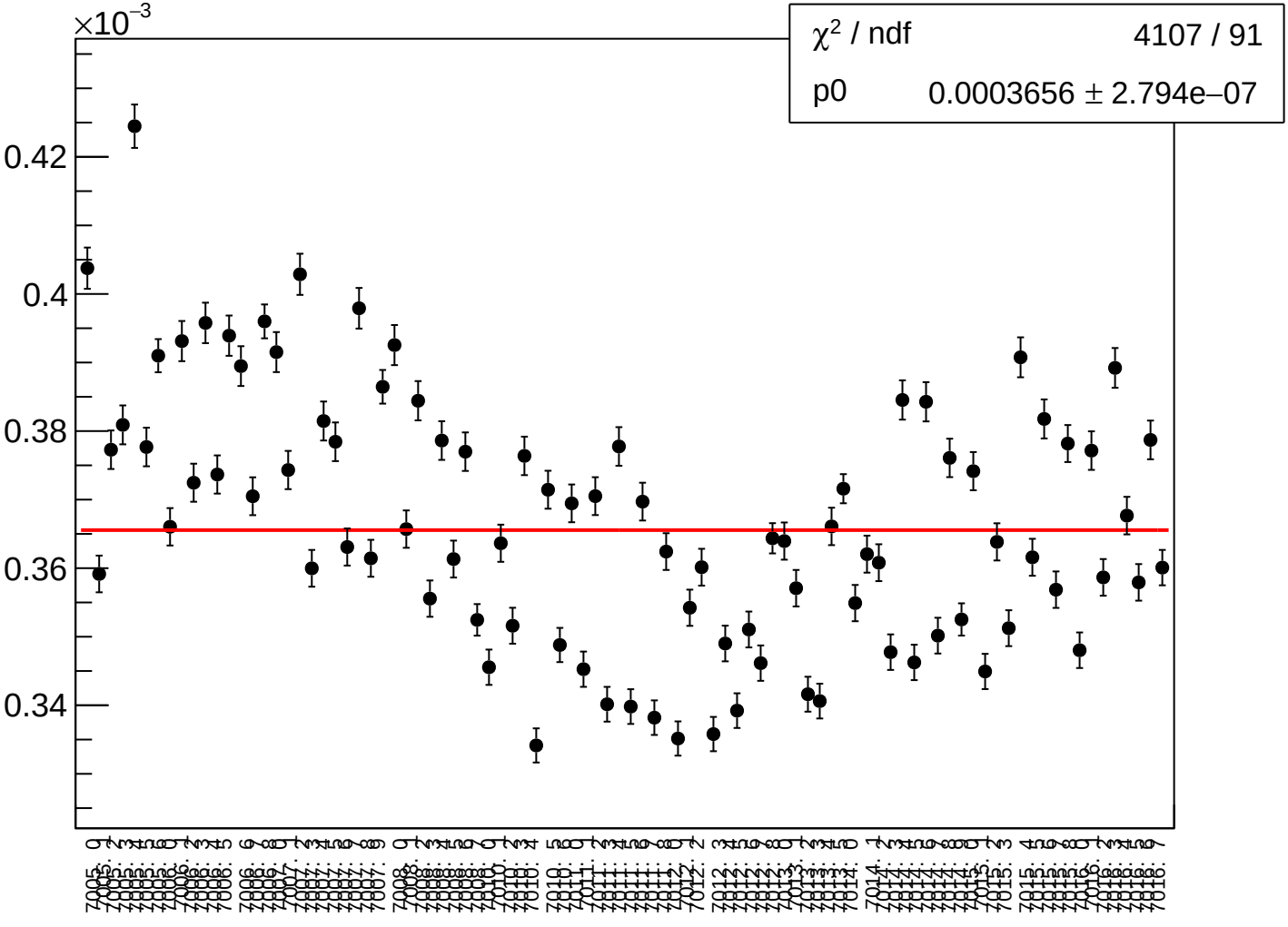

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.3 / 91
p0 0.002402 ± 0.01141
pull
Entries 92
Mean 98.26
Std Dev 0

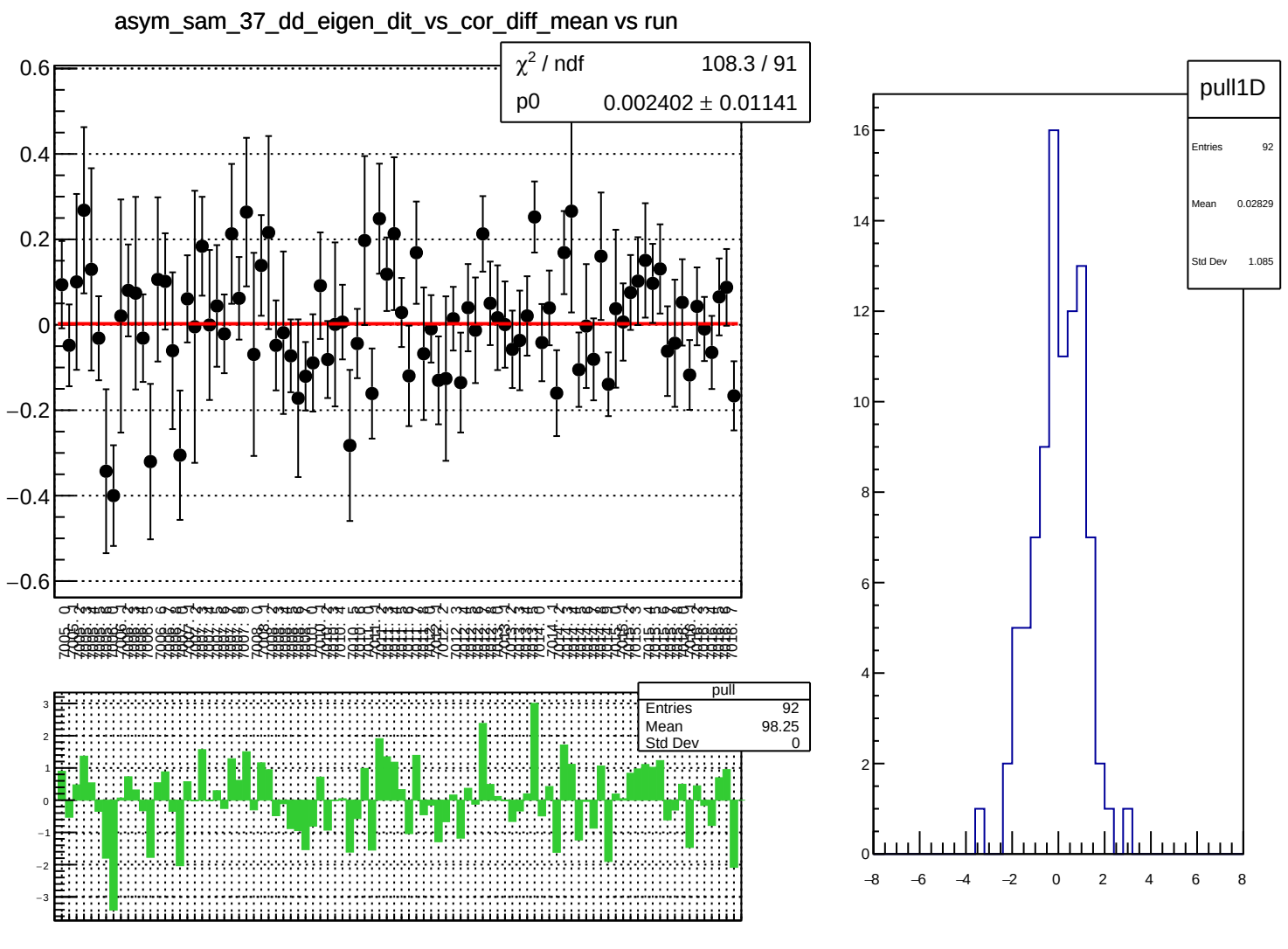

pull1D
Entries 92
Mean 0.02829
Std Dev 1.085

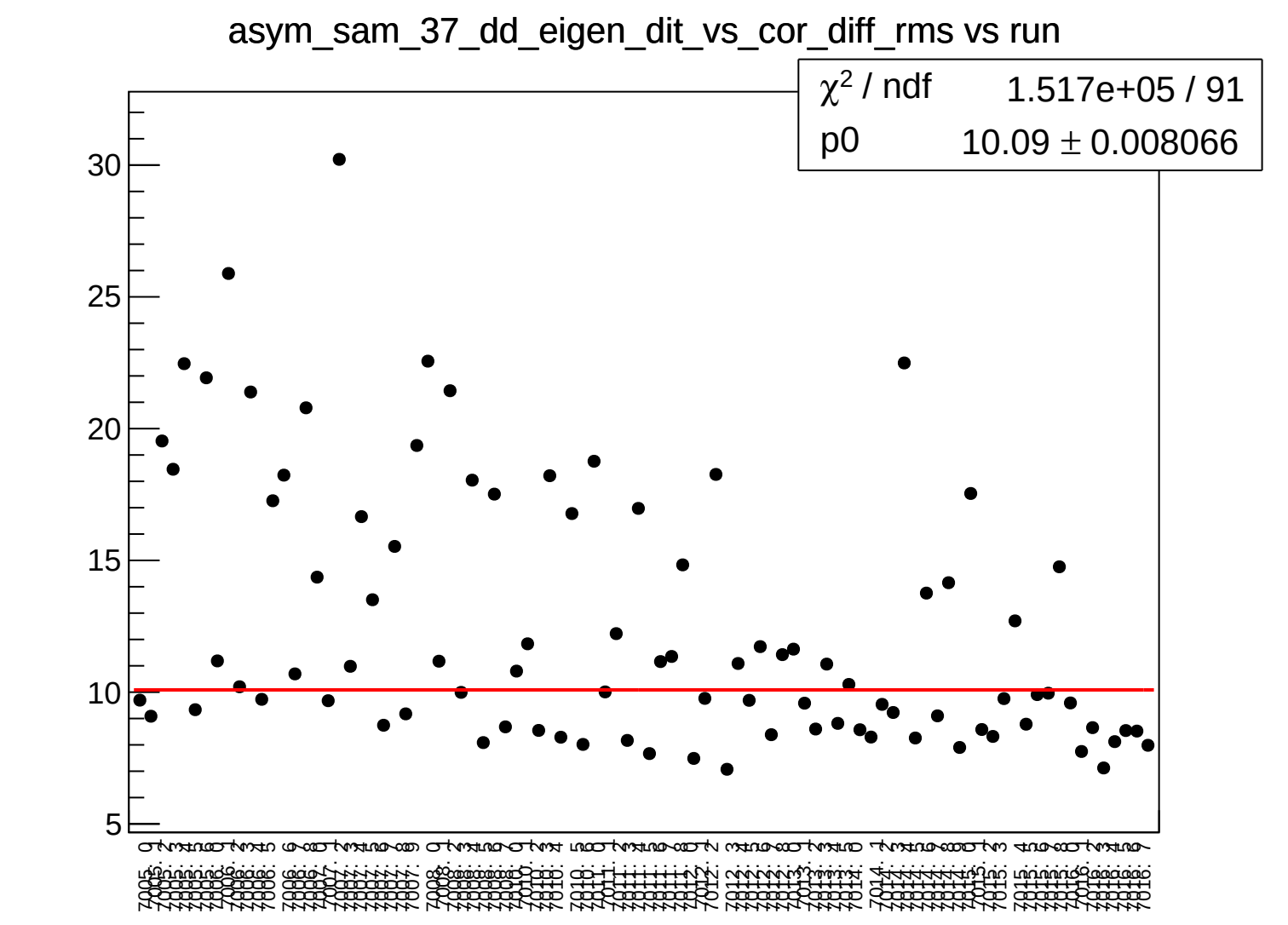

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.517e+05 / 91
p0 10.09 ± 0.008066
30
25
20
15
10
5

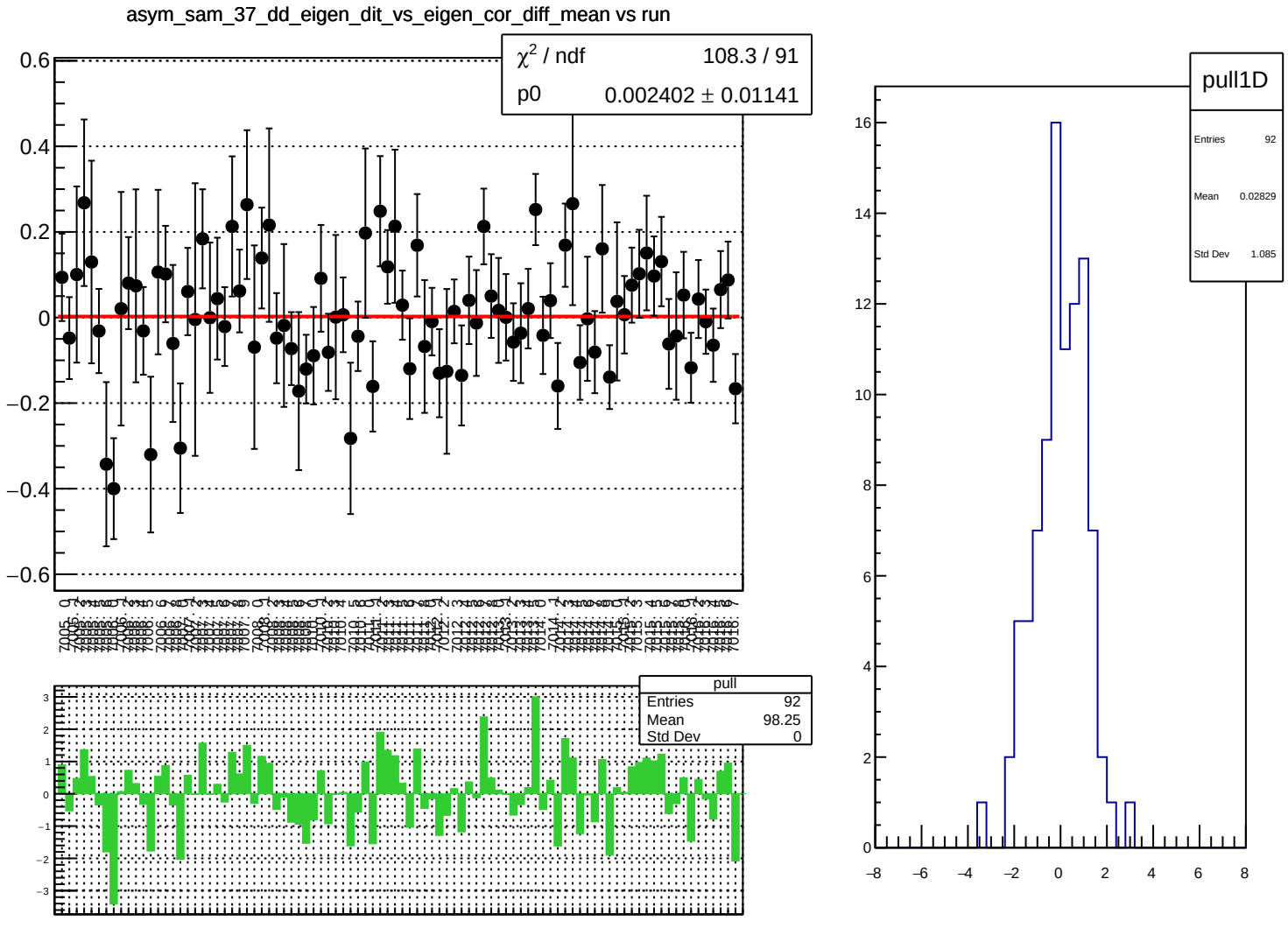

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 86.76 / 91
p0 −3.391e−07 ± 3.952e−07
×10⁻⁶
pull
Entries 92
Mean 34.61
Std Dev 96.37

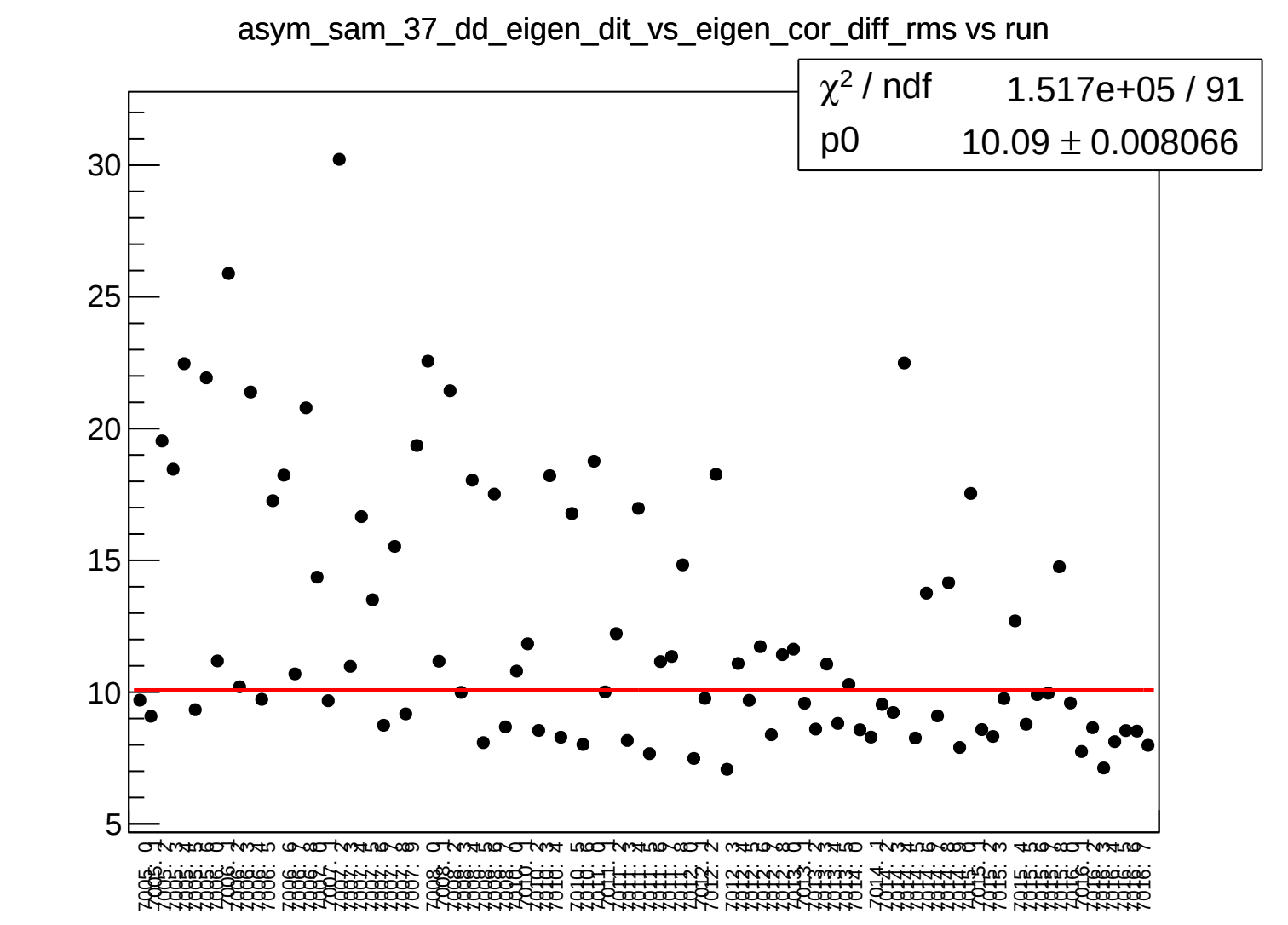

pull1D
Entries 92
Mean −0.008922
Std Dev 0.9711

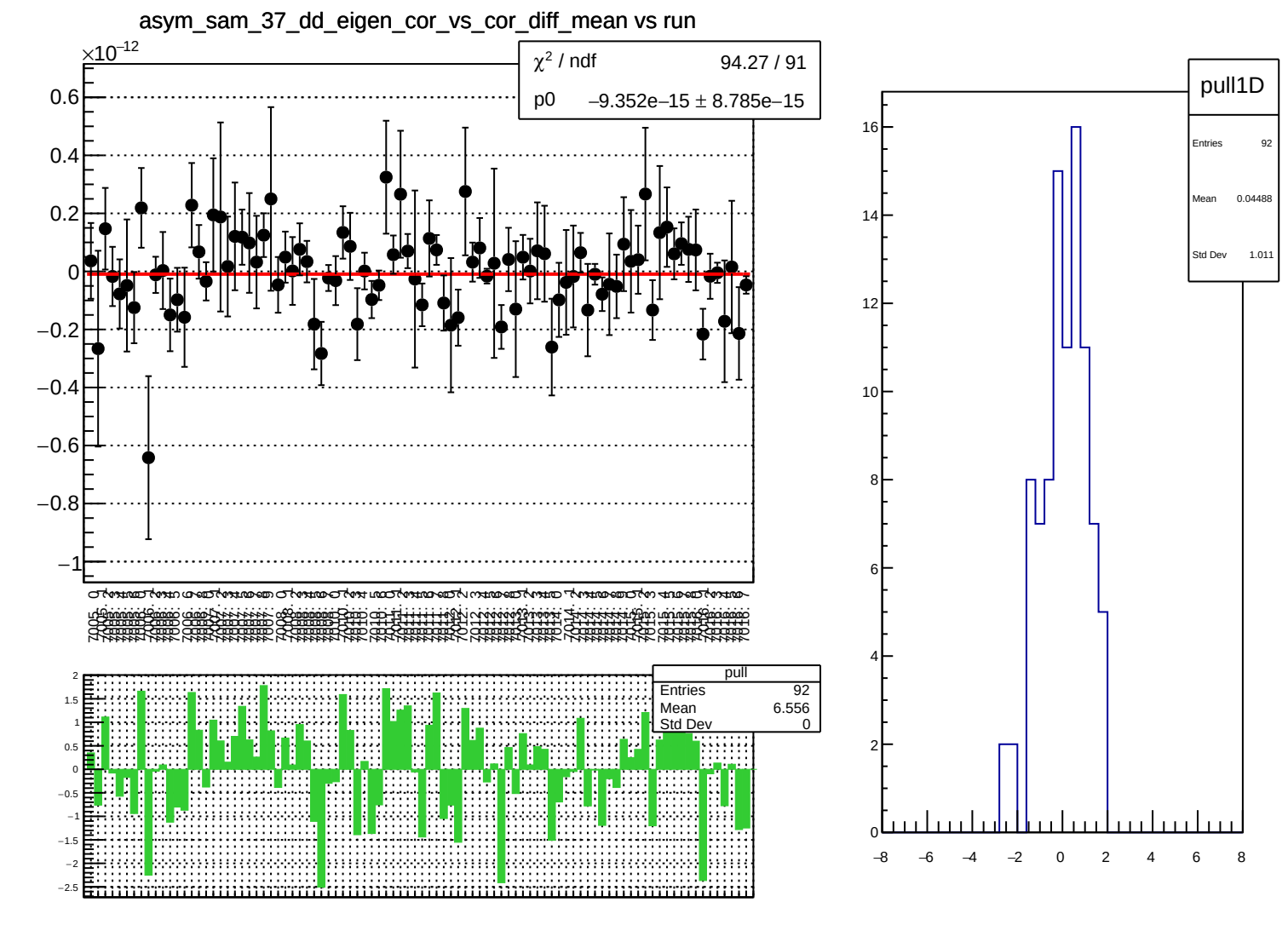

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 4107 / 91
p0 0.0003656 ± 2.794e−07
0.42
0.4
0.38
0.36
0.34

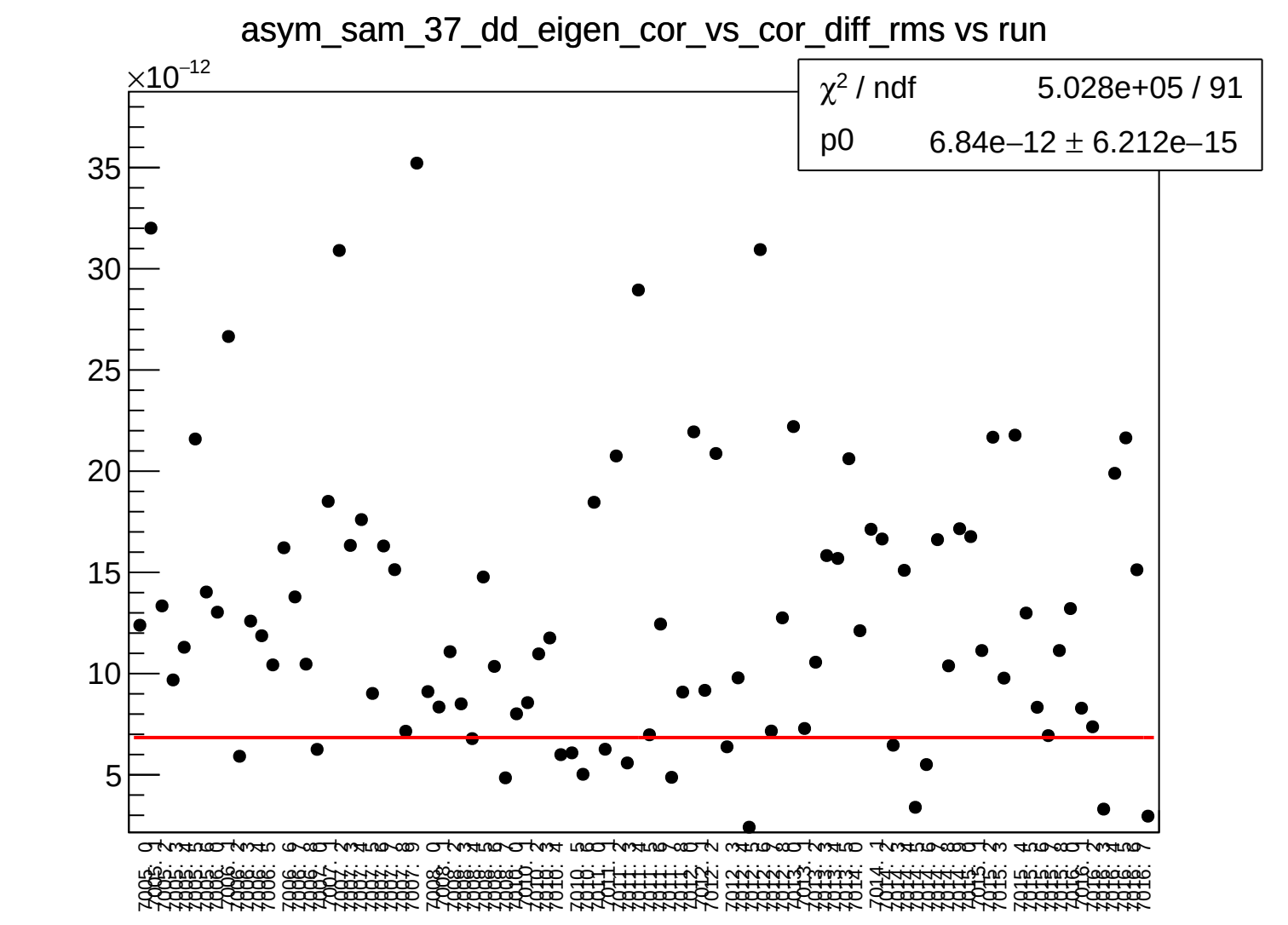

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 91
p0 0.002402 ± 0.01141
pull
Entries 92
Mean 98.25
Std Dev 0
pull1D
Entries 92
Mean 0.02829
Std Dev 1.085

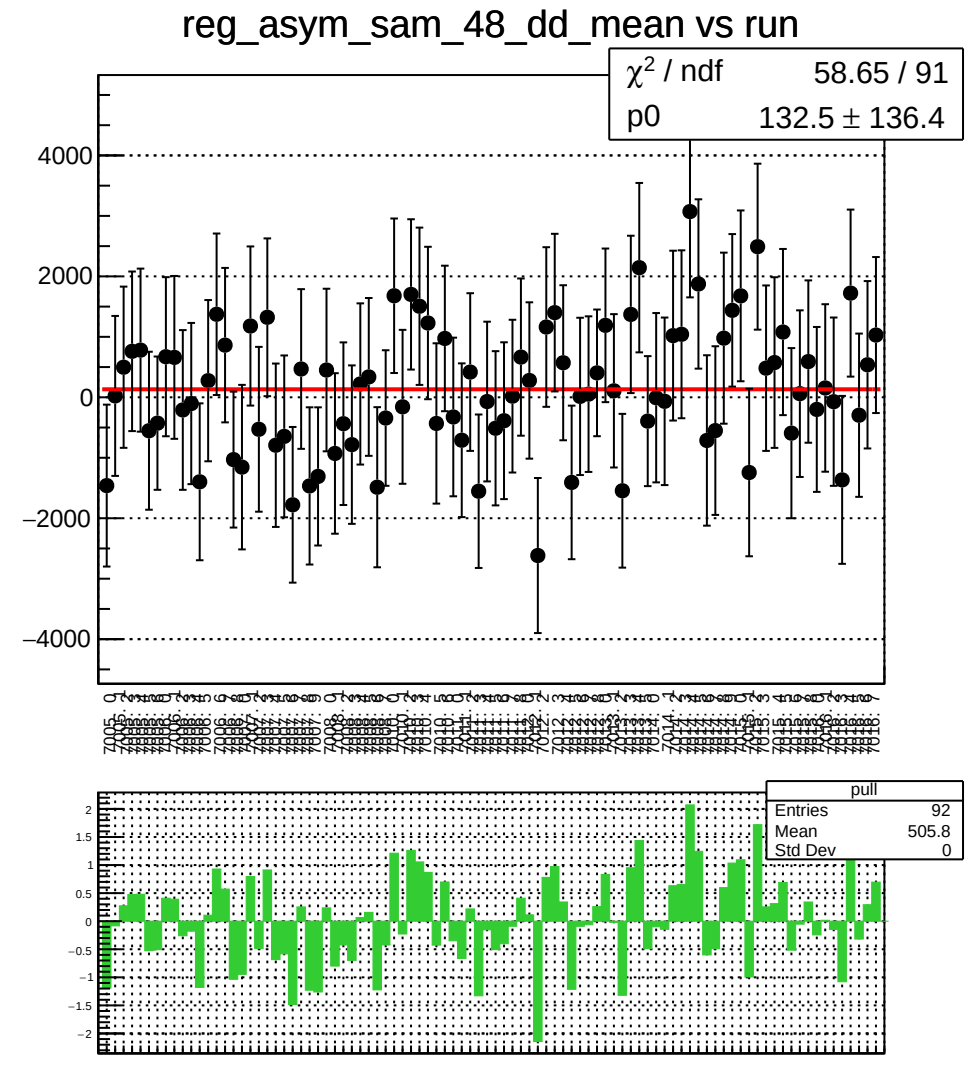

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.517e+05 / 91
p0 10.09 ± 0.008066
30
25
20
15
10
5

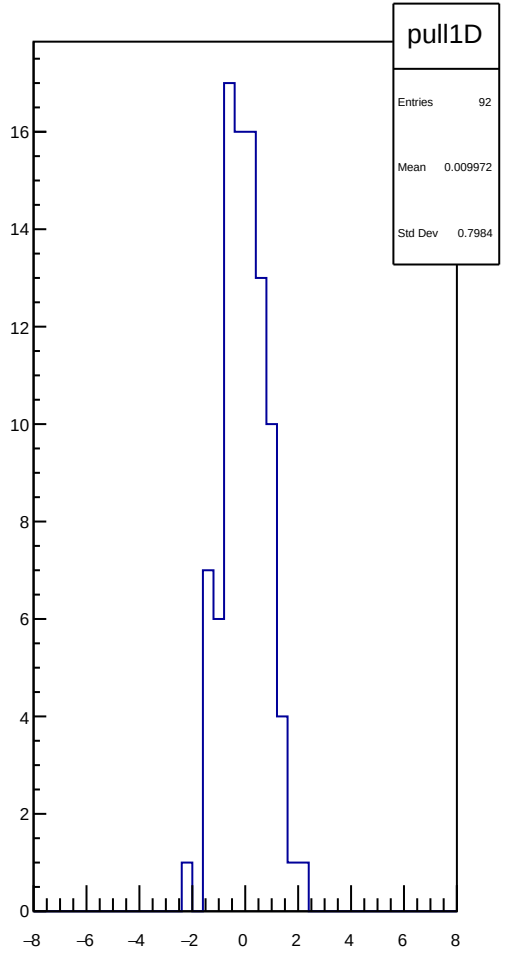

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.3 / 91
p0 0.002402 ± 0.01141
pull
Entries 92
Mean 98.25
Std Dev 0
pull1D
Entries 92
Mean 0.02829
Std Dev 1.085

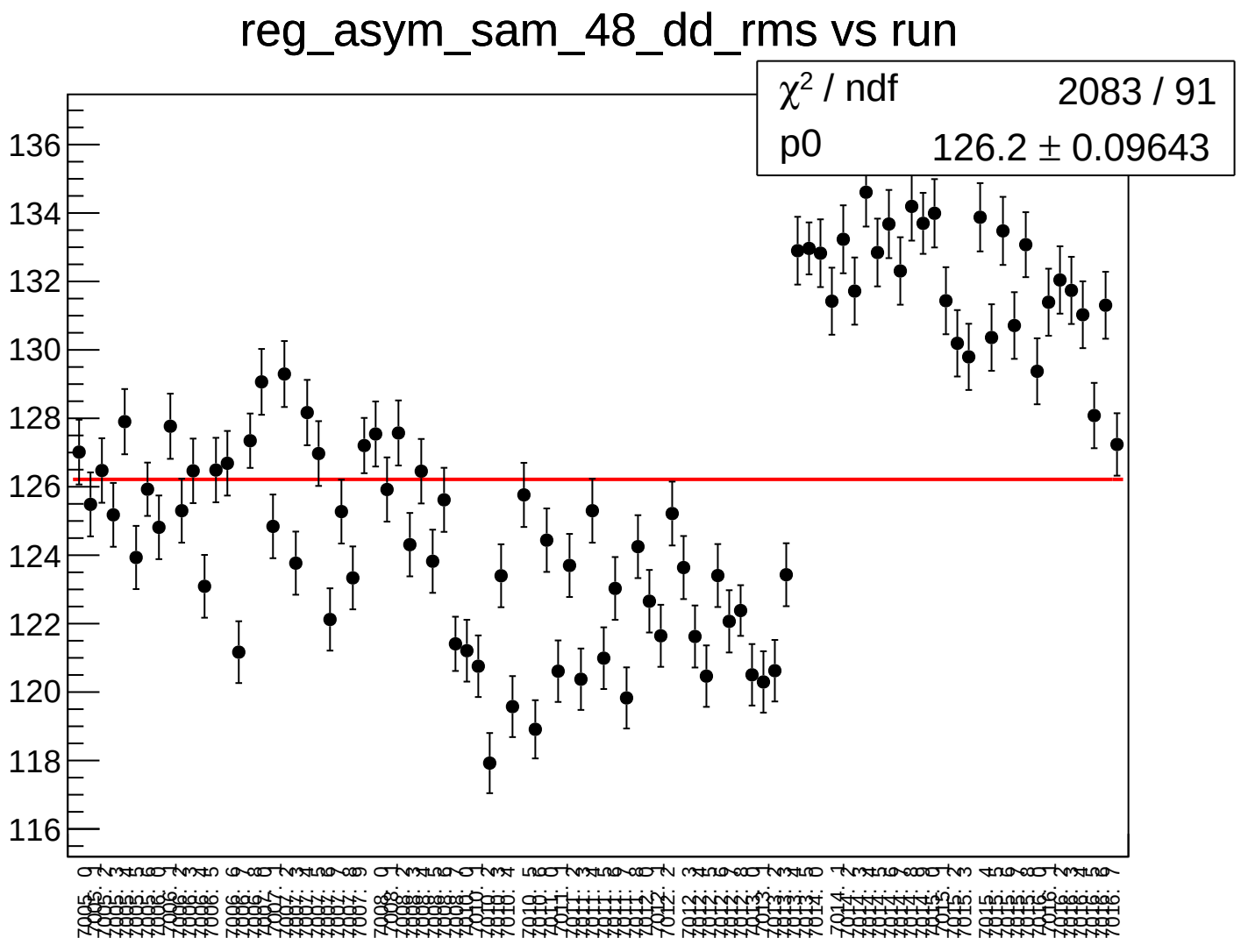

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.517e+05 / 91
p0 10.09 ± 0.008066
30
25
20
15
10
5

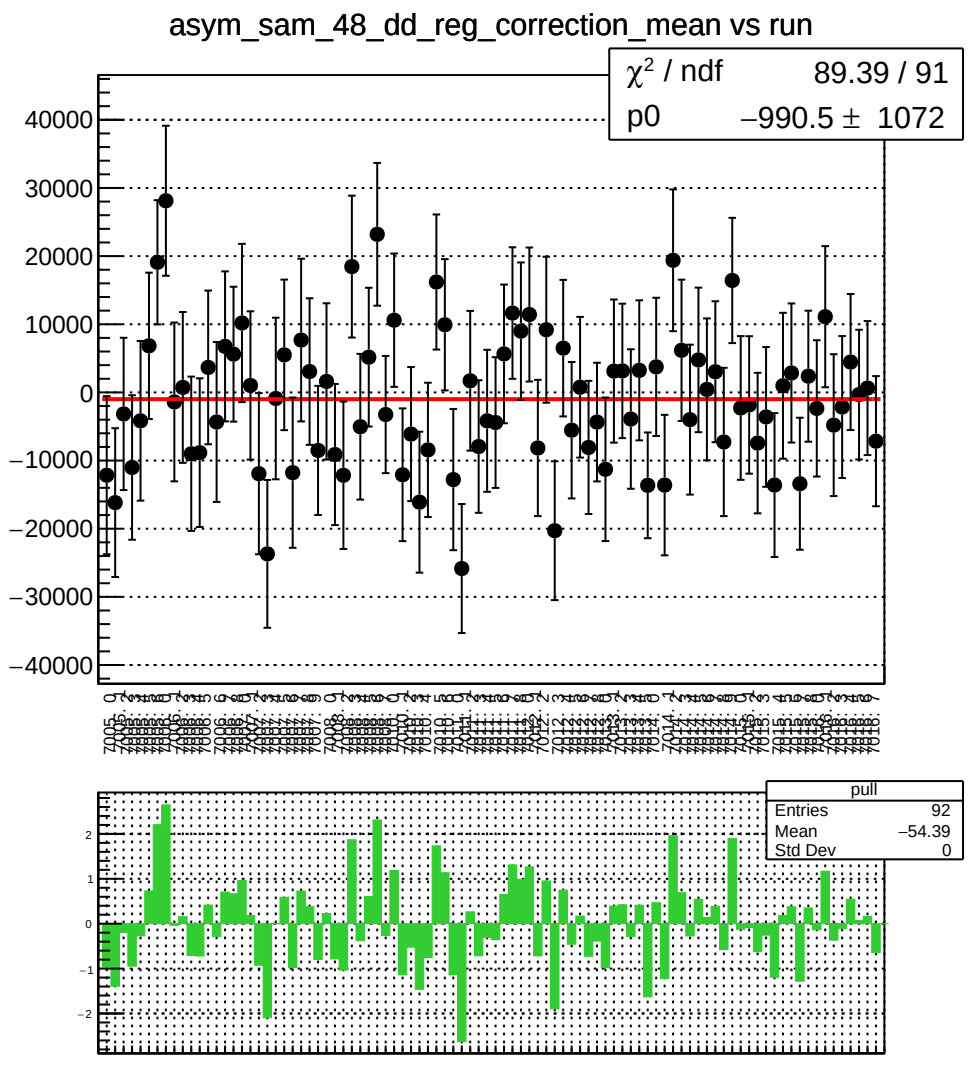

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.27 / 91
p0 −9.352e−15 ± 8.785e−15
pull
Entries 92
Mean 6.556
Std Dev 0
pull1D
Entries 92
Mean 0.04488
Std Dev 1.011

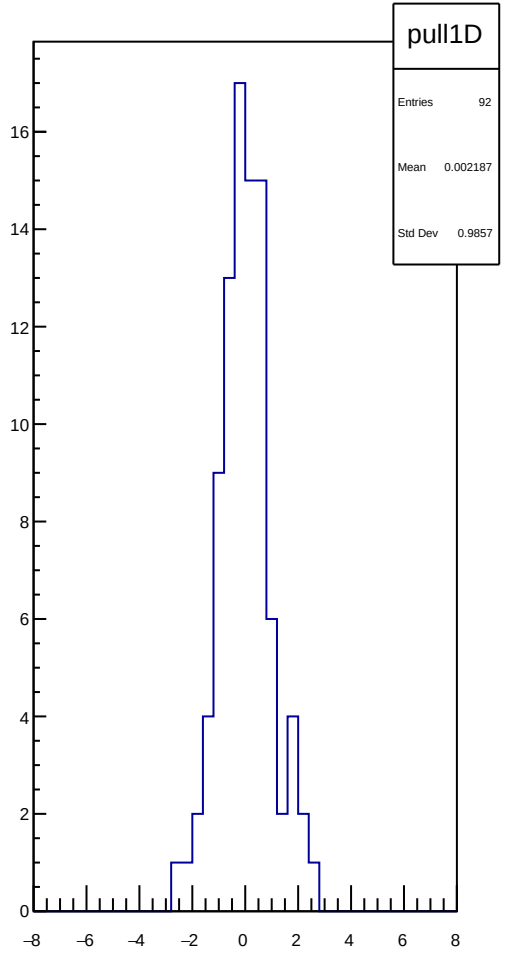

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.028e+05 / 91
p0 6.84e−12 ± 6.212e−15
35
30
25
20
15
10
5

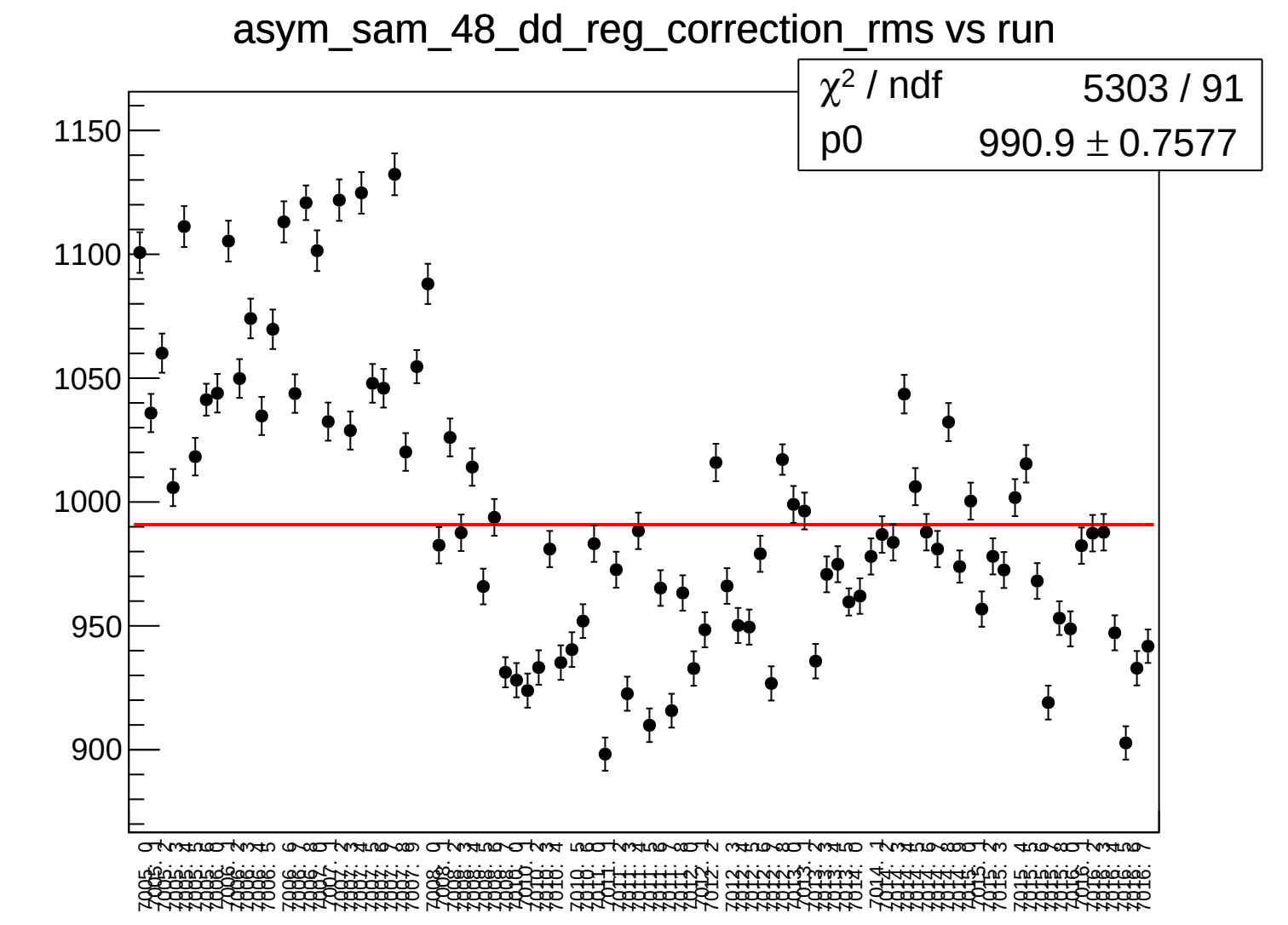

reg_asym_sam_48_dd_mean vs run
χ² / ndf 58.65 / 91
p0 132.5 ± 136.4
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 505.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

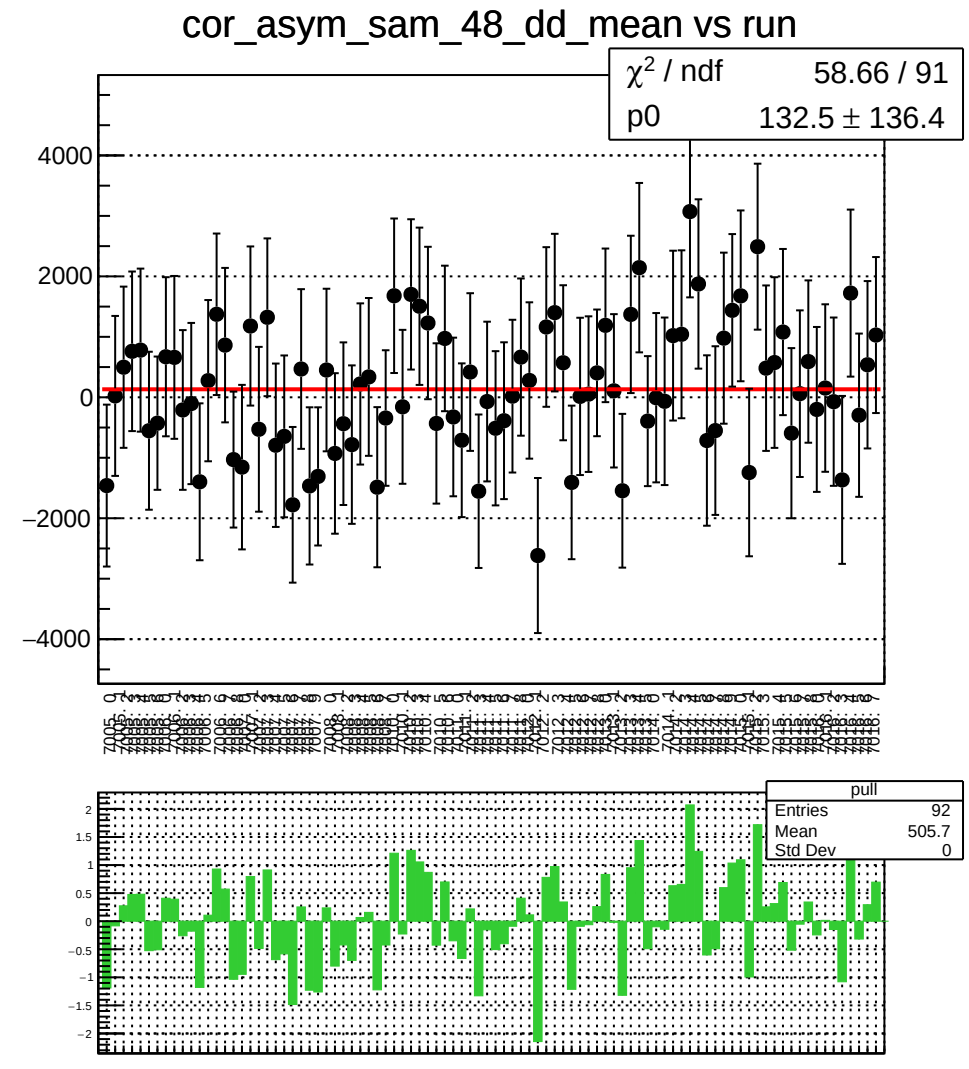

pull1D
Entries 92
Mean 0.009972
Std Dev 0.7984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

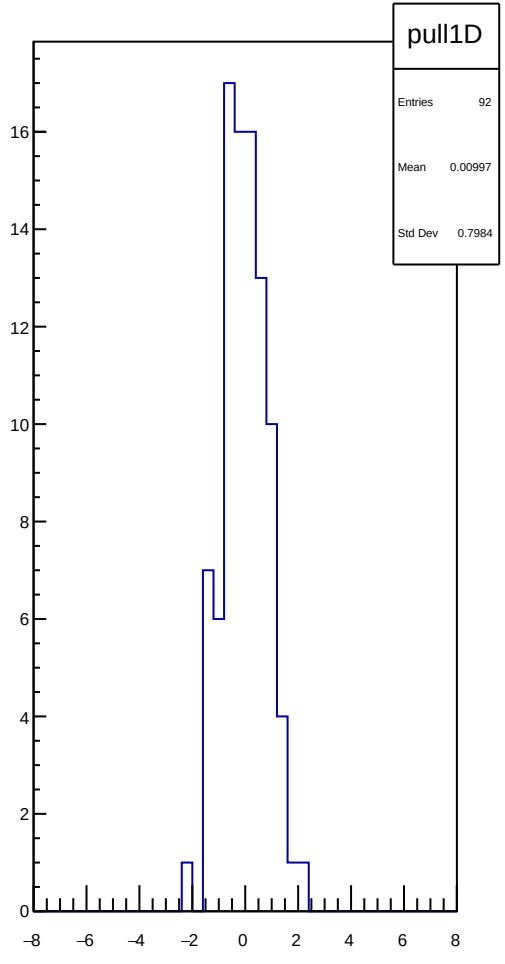

reg_asym_sam_48_dd_rms vs run
χ² / ndf 2083 / 91
p0 126.2 ± 0.09643
136
134
132
130
128
126
124
122
120
118
116

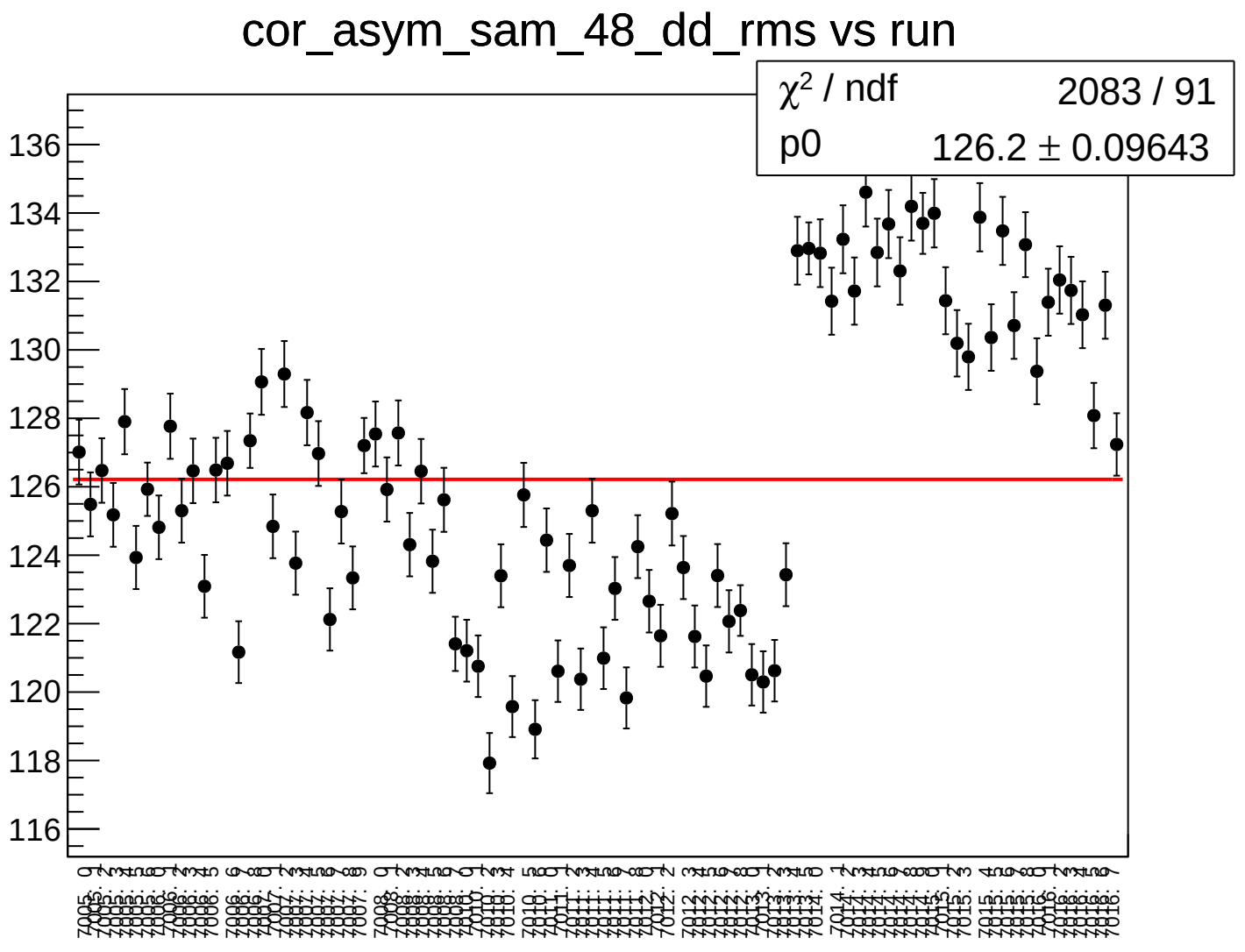

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 89.39 / 91
p0 −990.5 ± 1072
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −54.39
Std Dev 0
2
1
0
−1
−2

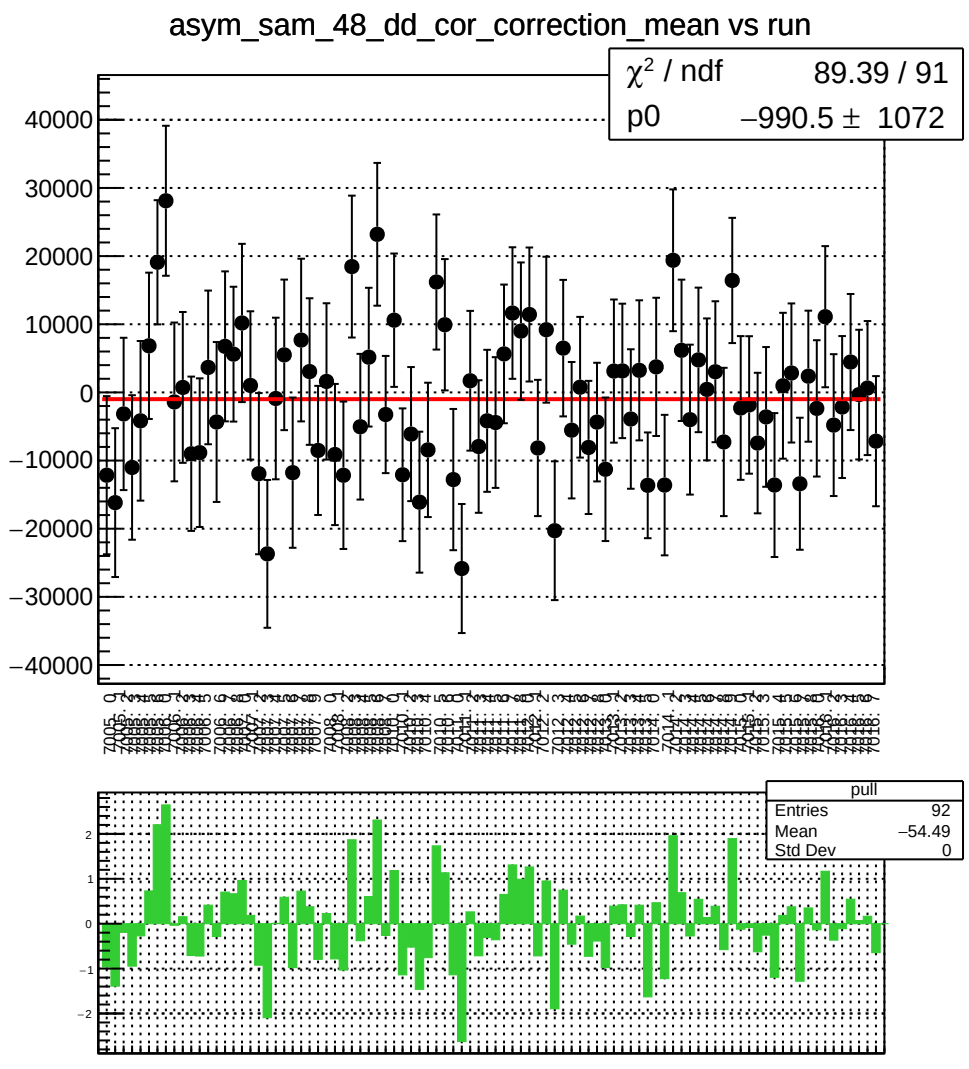

pull1D
Entries 92
Mean 0.002187
Std Dev 0.9857
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

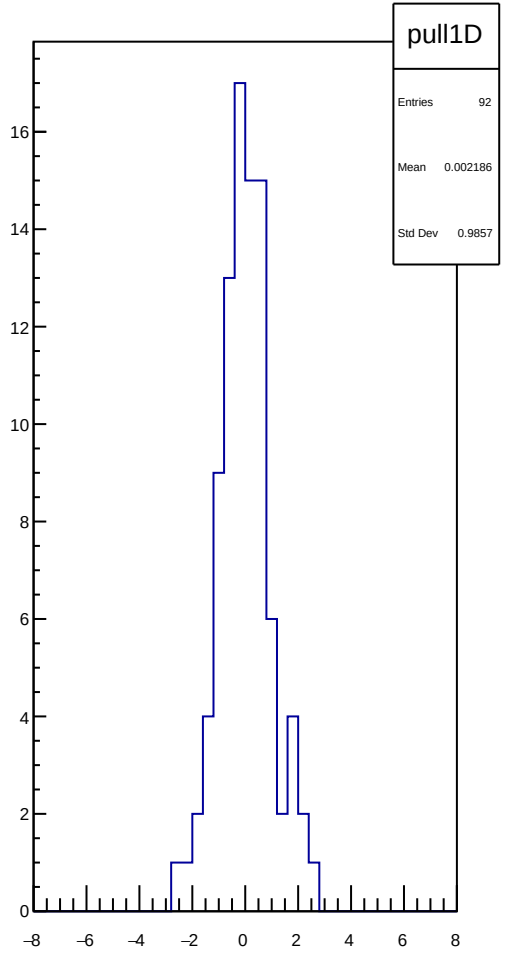

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 5303 / 91
p0 990.9 ± 0.7577
1150
1100
1050
1000
950
900

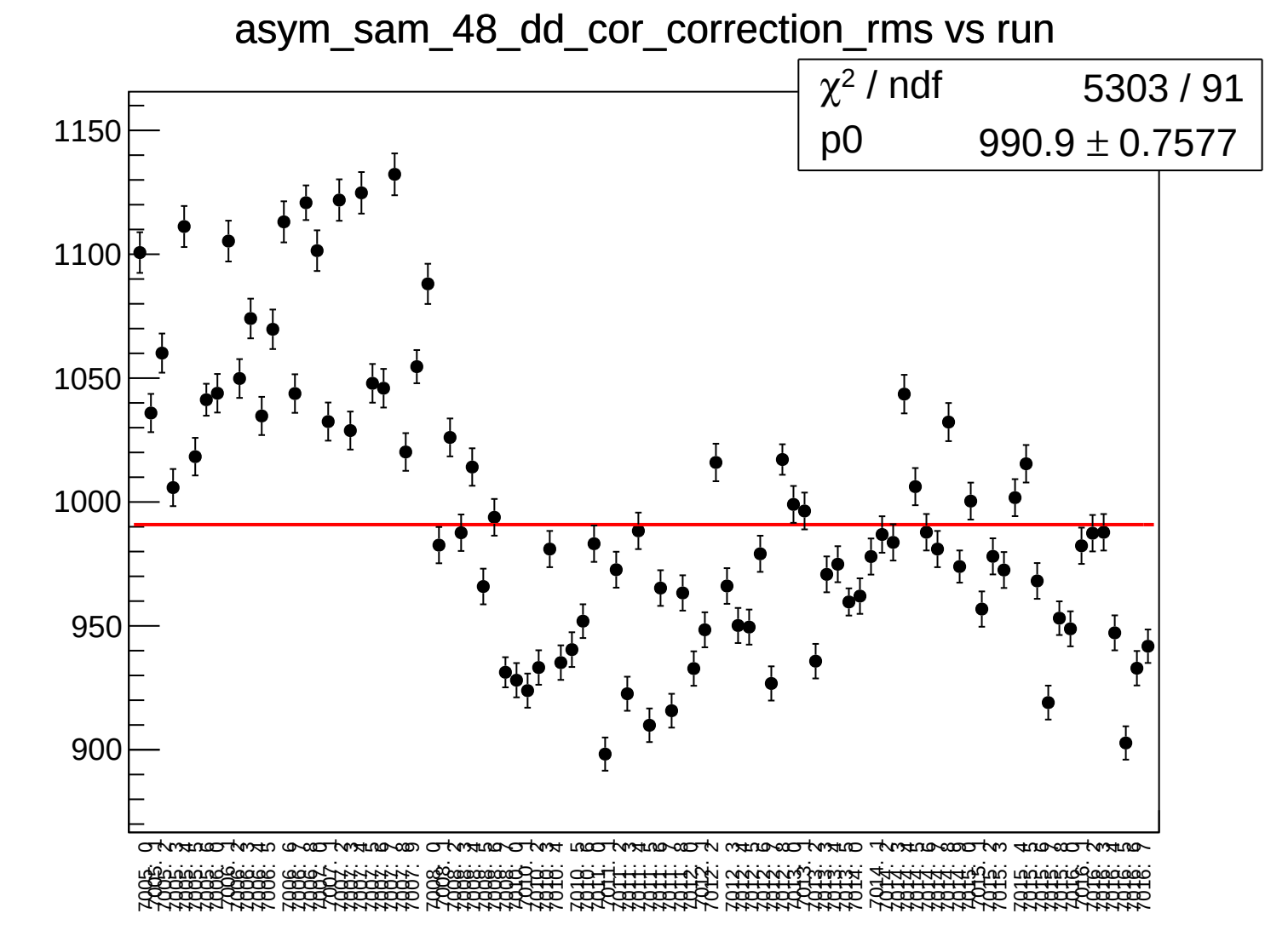

cor_asym_sam_48_dd_mean vs run
χ² / ndf 58.66 / 91
p0 132.5 ± 136.4
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 505.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

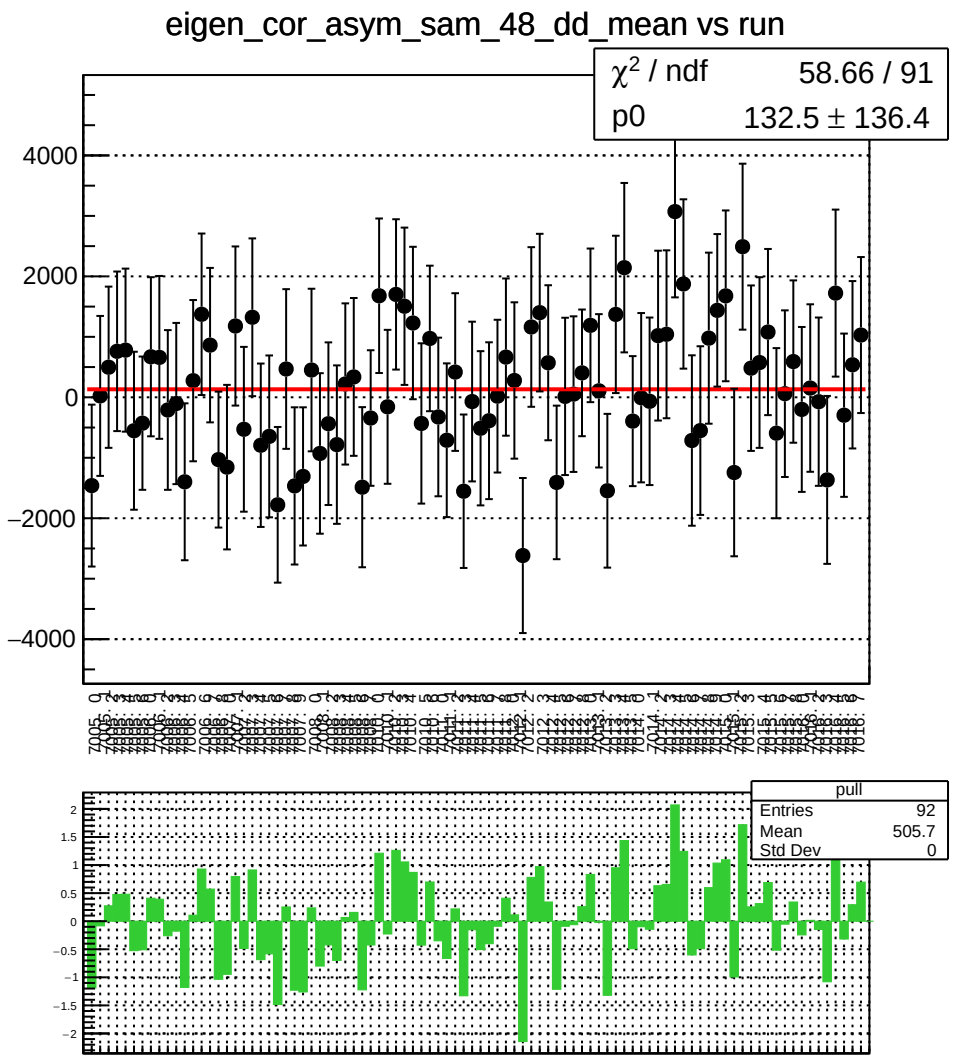

pull1D
Entries 92
Mean 0.00997
Std Dev 0.7984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

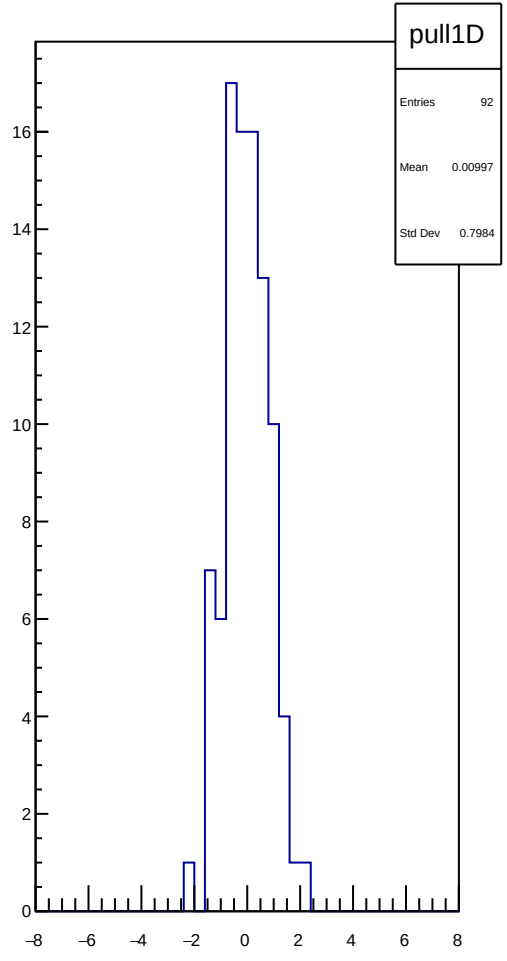

cor_asym_sam_48_dd_rms vs run
χ² / ndf 2083 / 91
p0 126.2 ± 0.09643
136
134
132
130
128
126
124
122
120
118
116

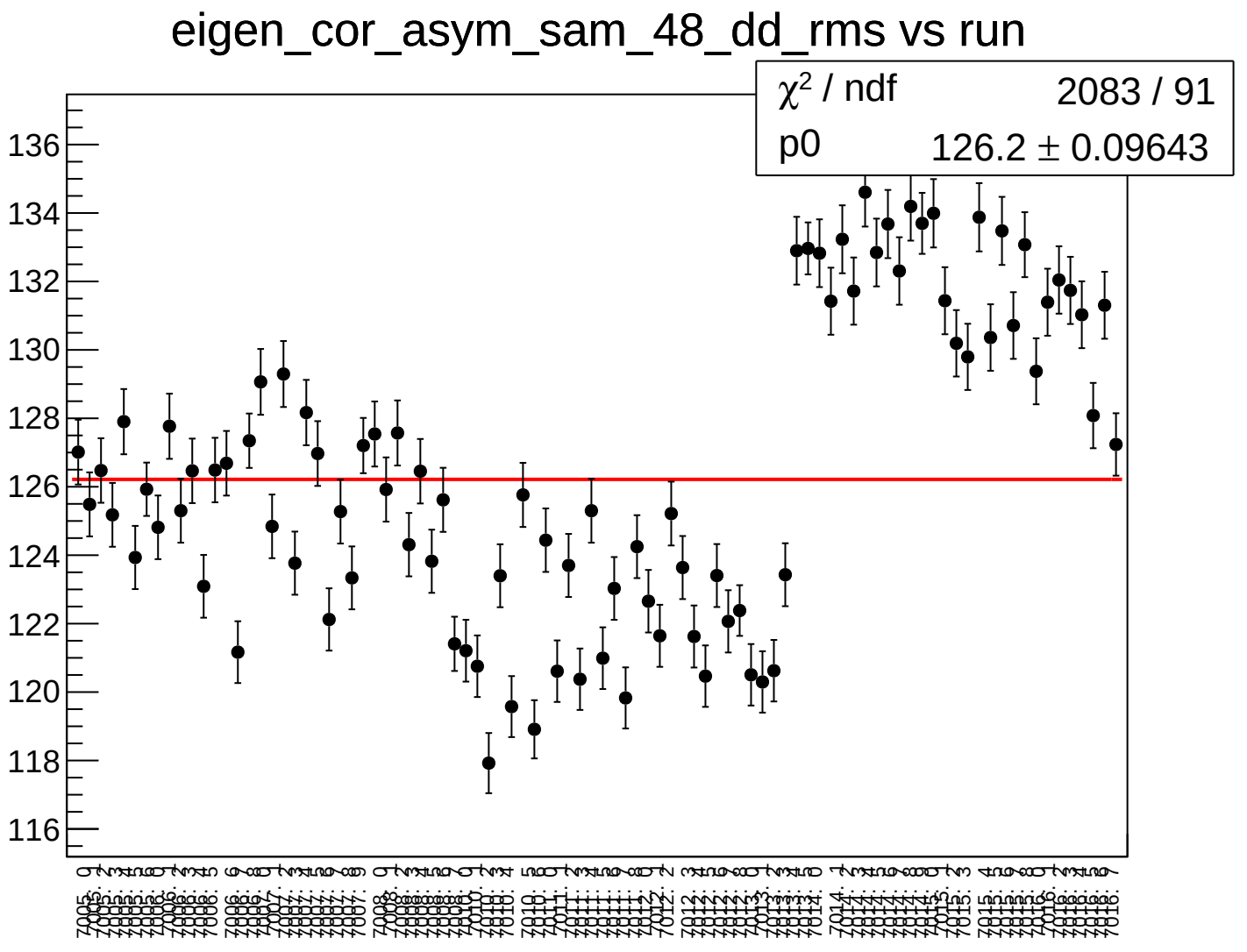

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 89.39 / 91
p0 −990.5 ± 1072
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −54.49
Std Dev 0
2
1
0
−1
−2

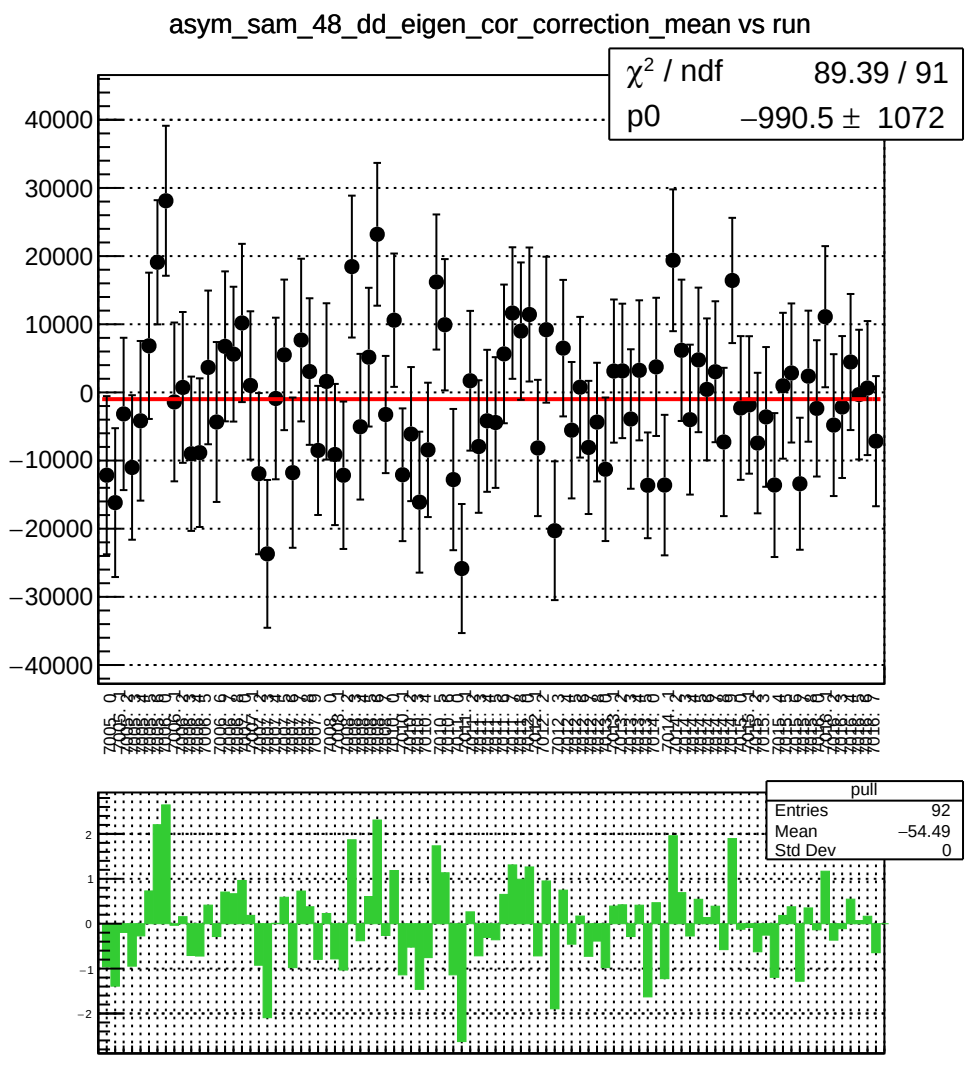

pull1D
Entries 92
Mean 0.002186
Std Dev 0.9857
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

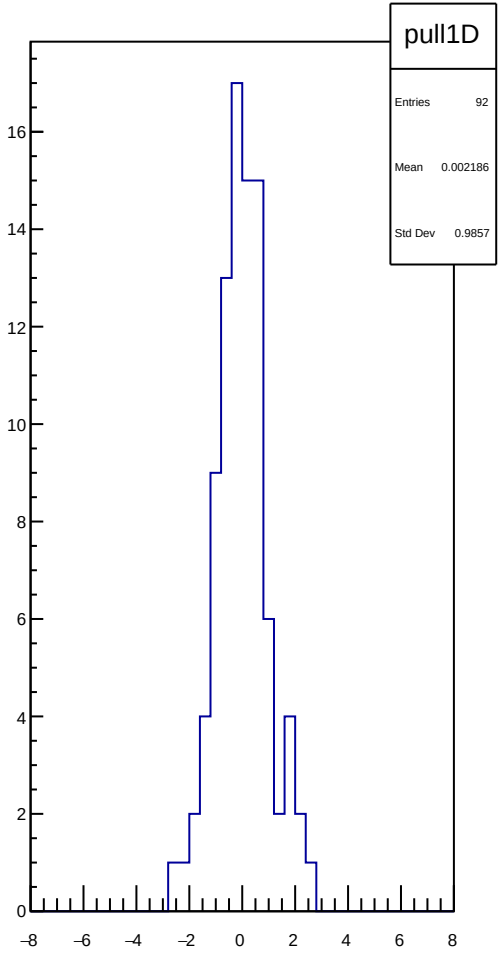

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 5303 / 91
p0 990.9 ± 0.7577
1150
1100
1050
1000
950
900

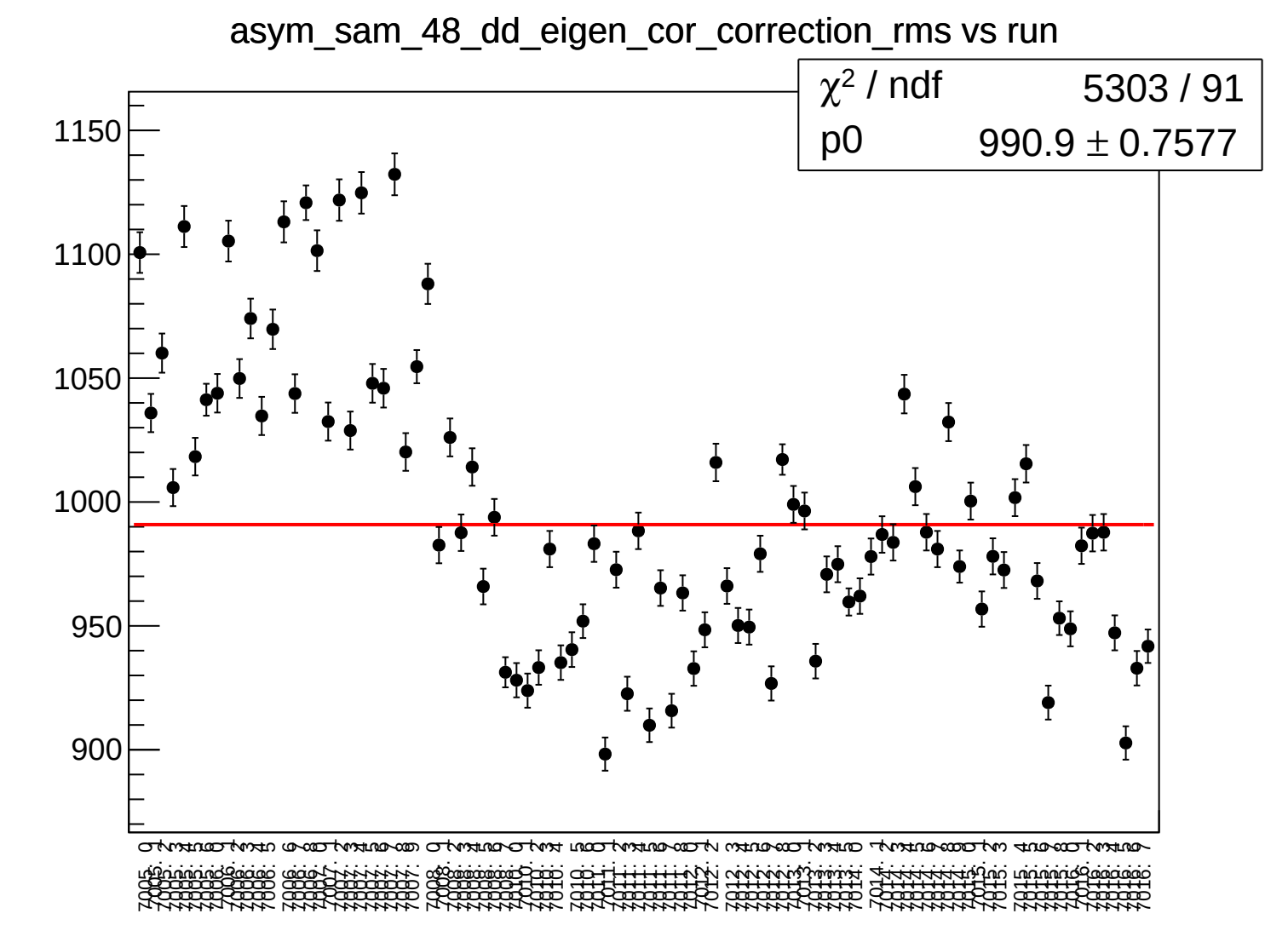

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 58.66 / 91
p0 132.5 ± 136.4
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 505.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

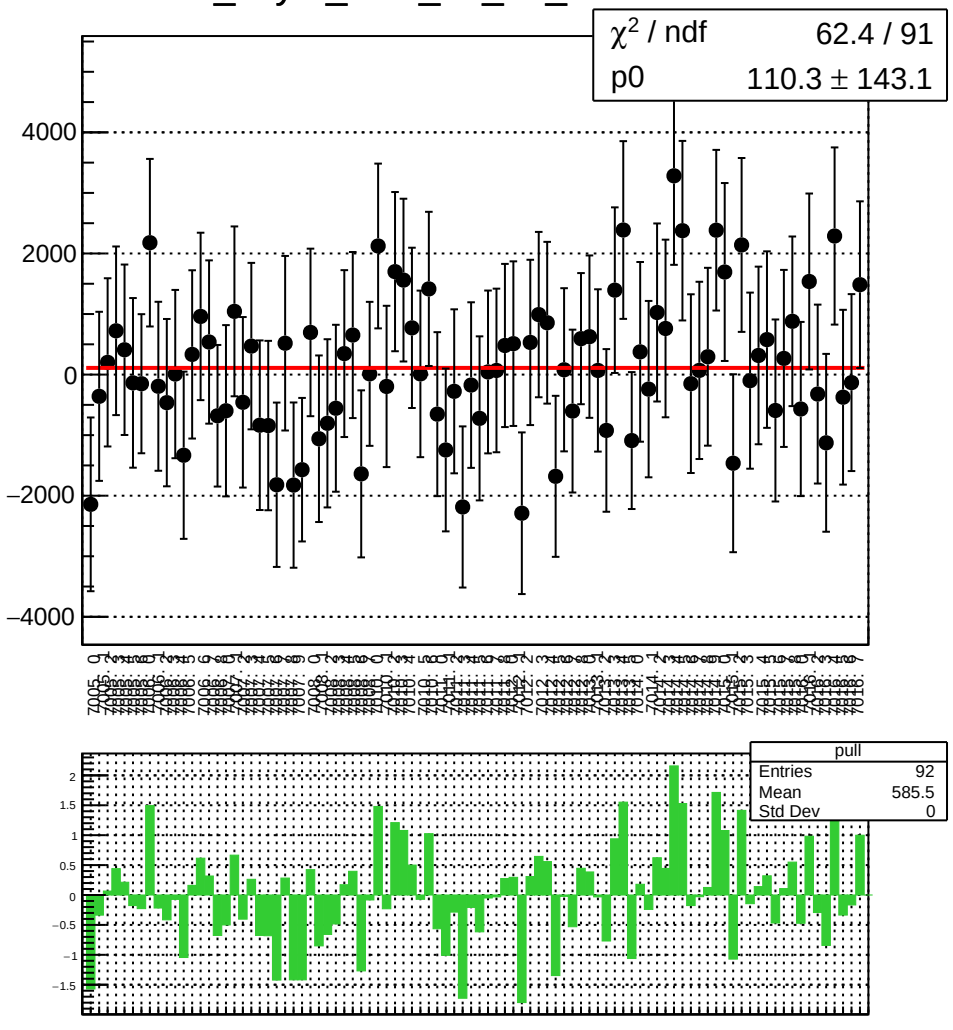

pull1D
Entries 92
Mean 0.00997
Std Dev 0.7984
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

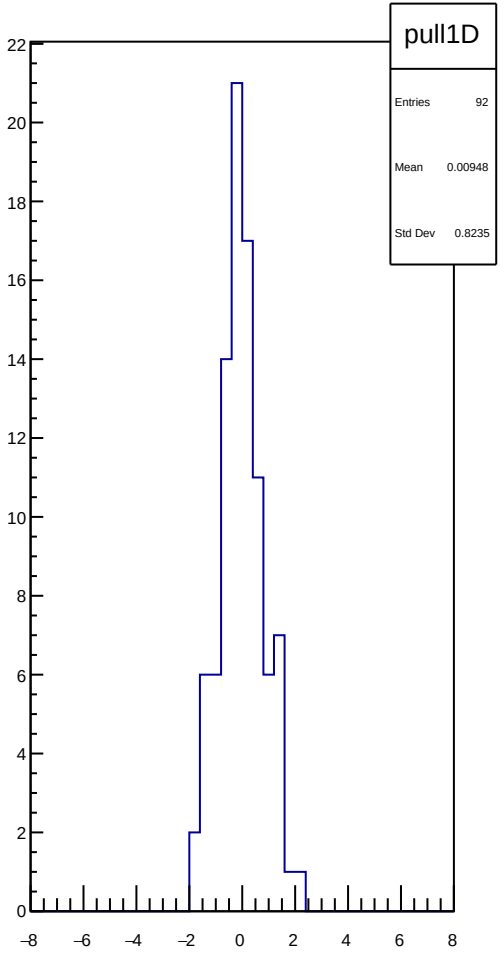

eigen_cor_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 2083 / 91
p0 126.2 ± 0.09643
136
134
132
130
128
126
124
122
120
118
116

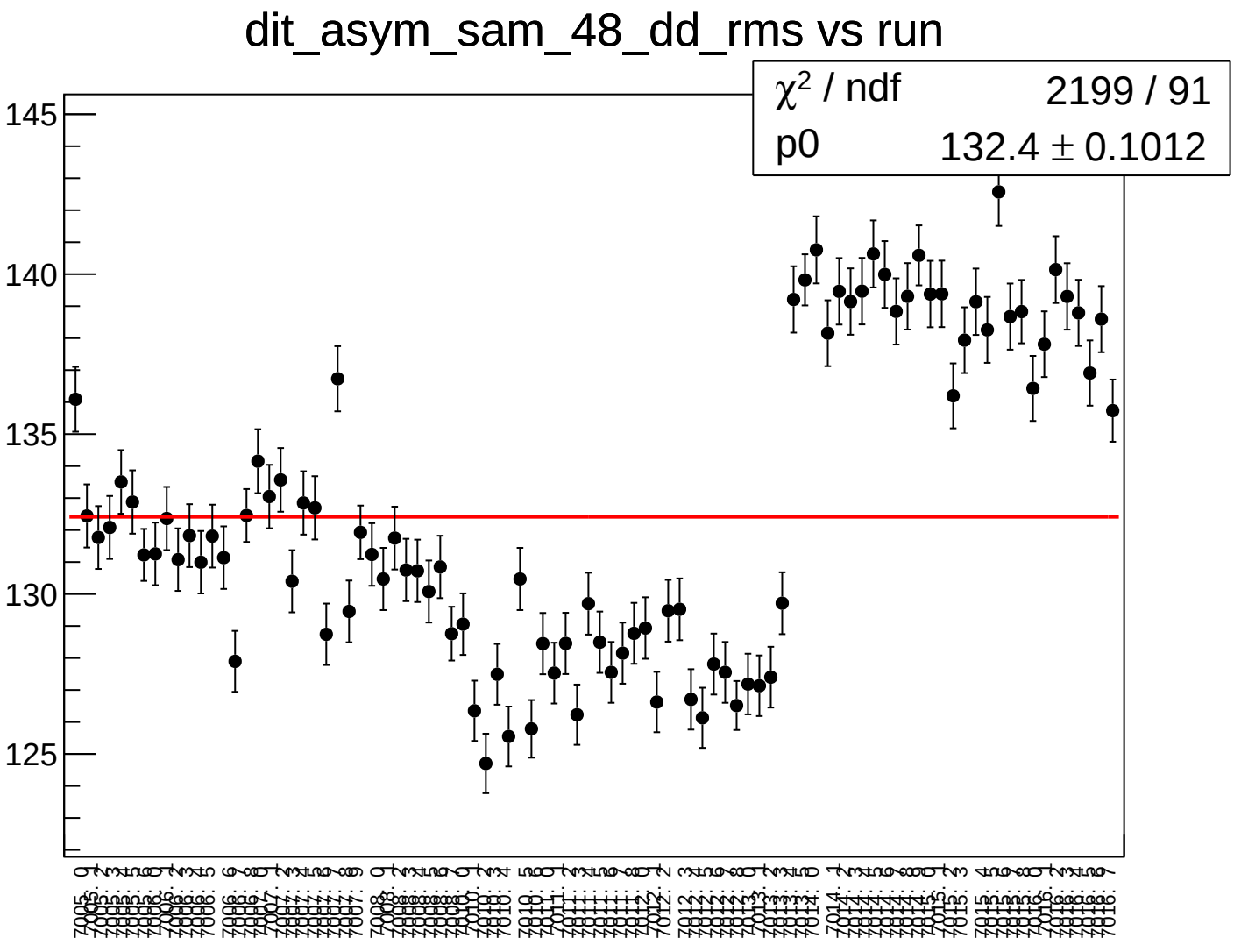

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.39 / 91
p0 −990.5 ± 1072
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −54.49
Std Dev 0
2
1
0
−1
−2

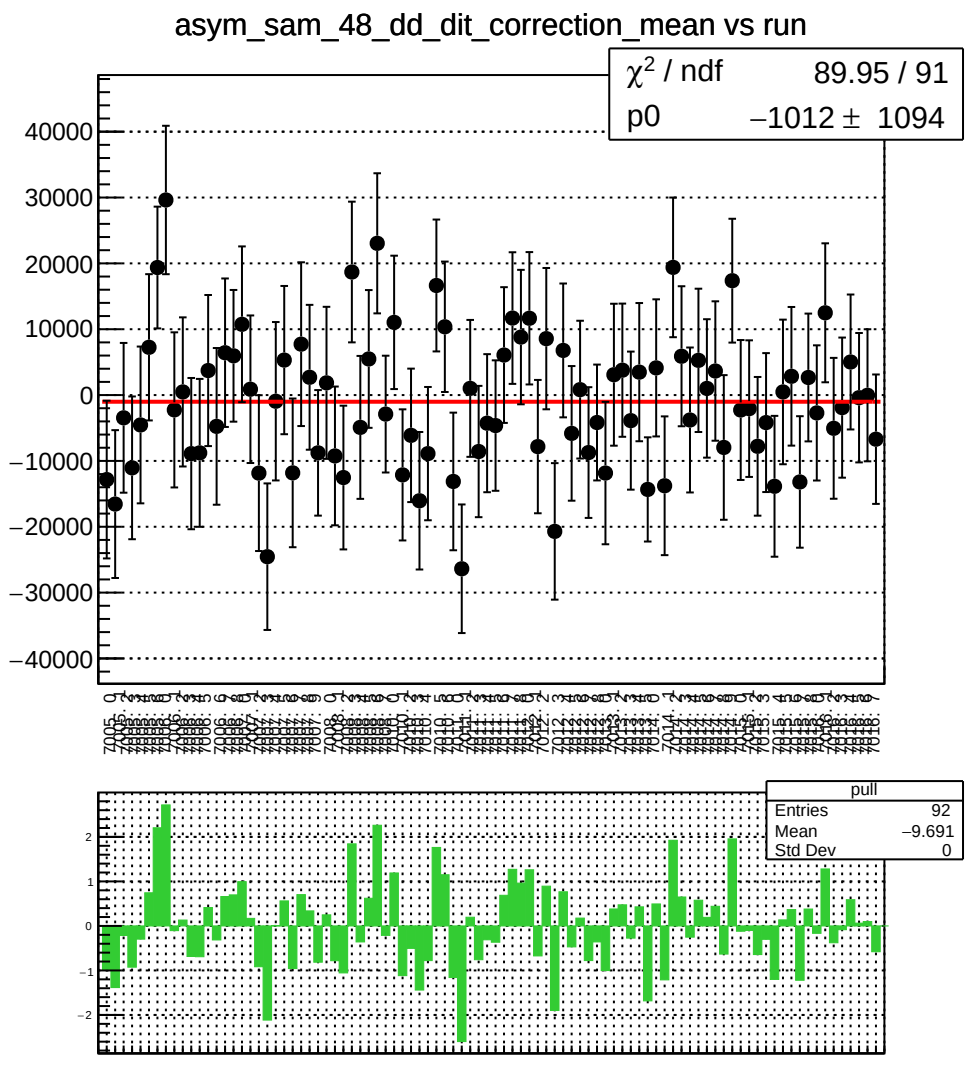

pull1D
Entries 92
Mean 0.002186
Std Dev 0.9857
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

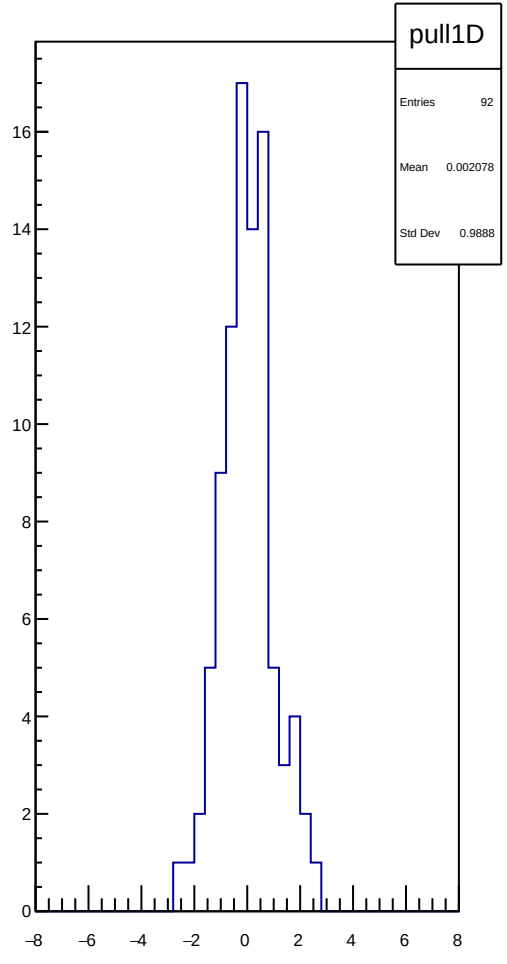

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5303 / 91
p0 990.9 ± 0.7577
1150
1100
1050
1000
950
900

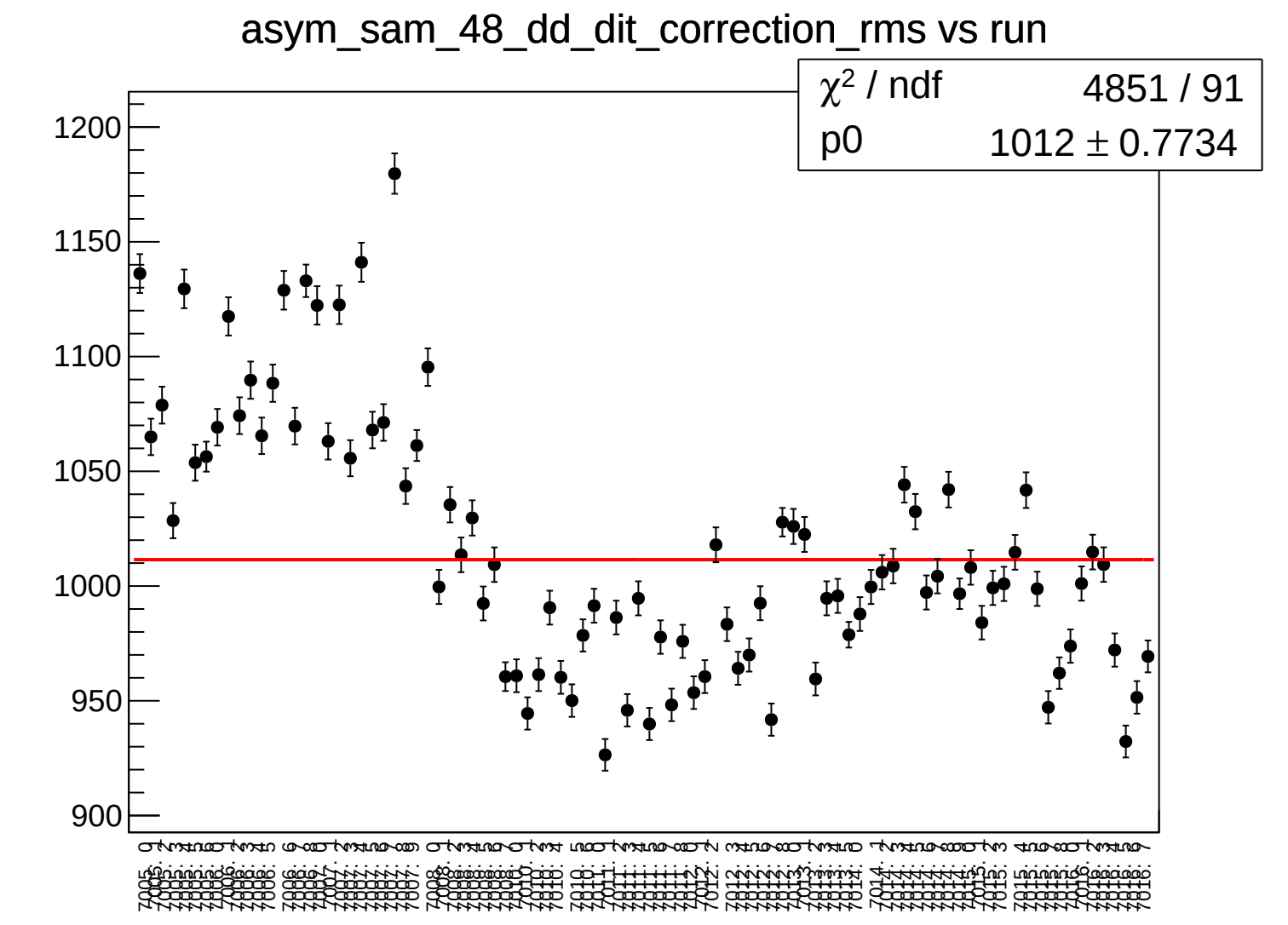

dit_asym_sam_48_dd_mean vs run
χ² / ndf 62.4 / 91
p0 110.3 ± 143.1
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 585.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

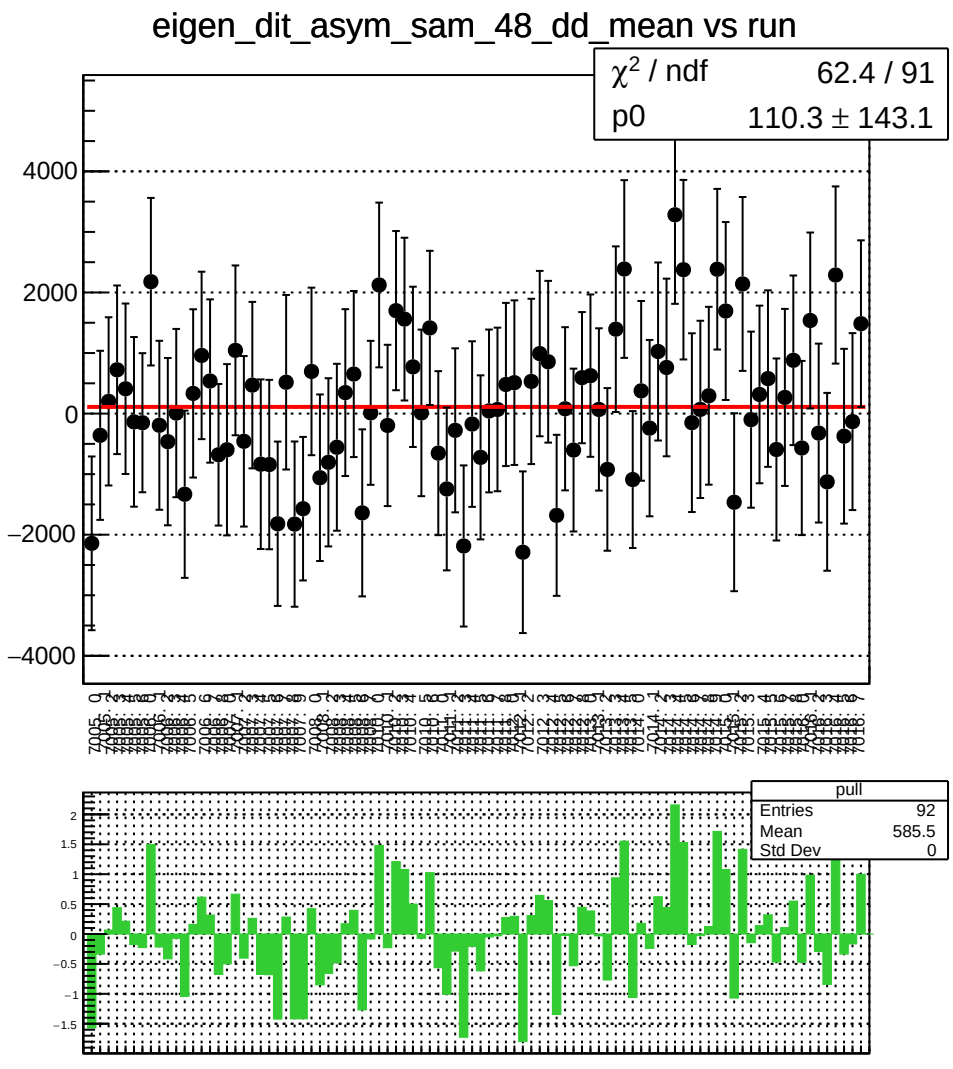

pull1D
Entries 92
Mean 0.00948
Std Dev 0.8235
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

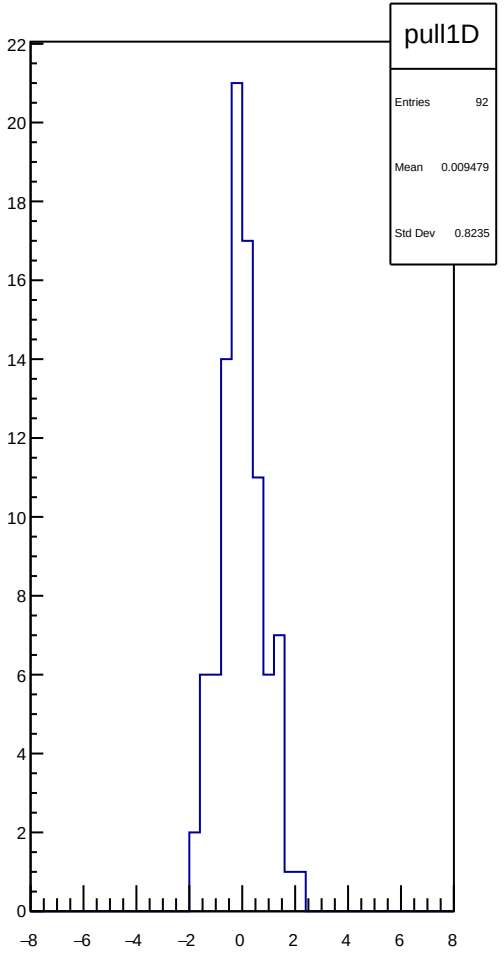

dit_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 2199 / 91
p0 132.4 ± 0.1012
145
140
135
130
125

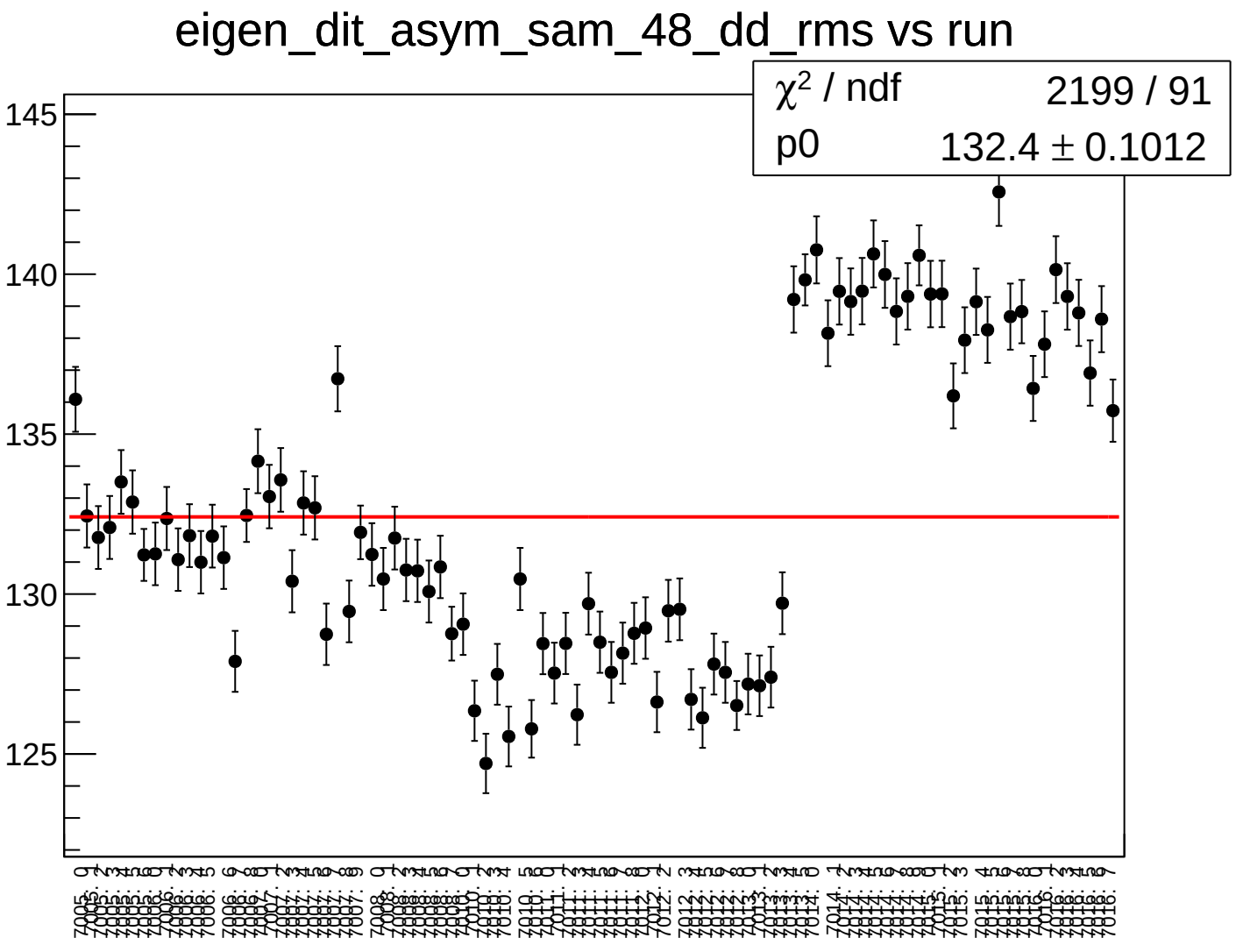

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 89.95 / 91
p0 −1012 ± 1094
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −9.691
Std Dev 0
2
1
0
−1
−2

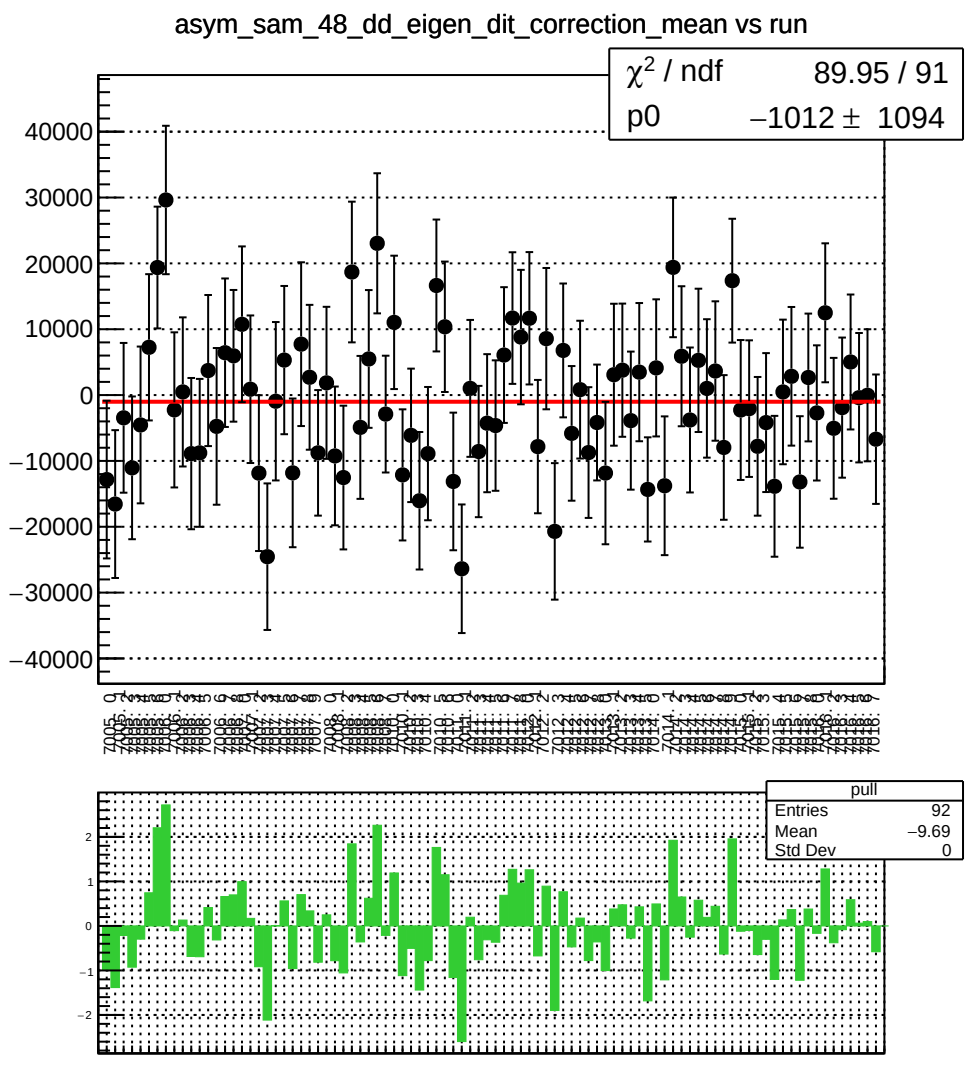

pull1D
Entries 92
Mean 0.002078
Std Dev 0.9888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

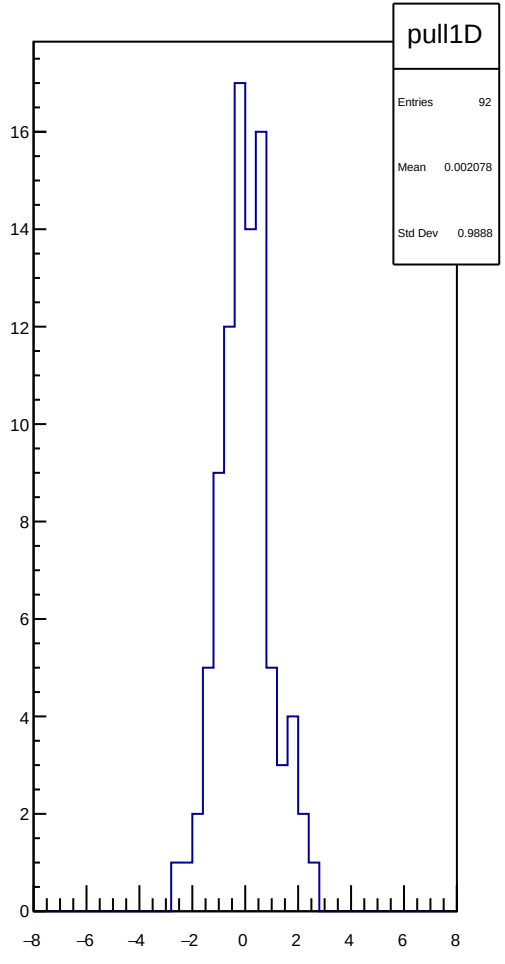

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 4851 / 91
p0 1012 ± 0.7734
1200
1150
1100
1050
1000
950
900

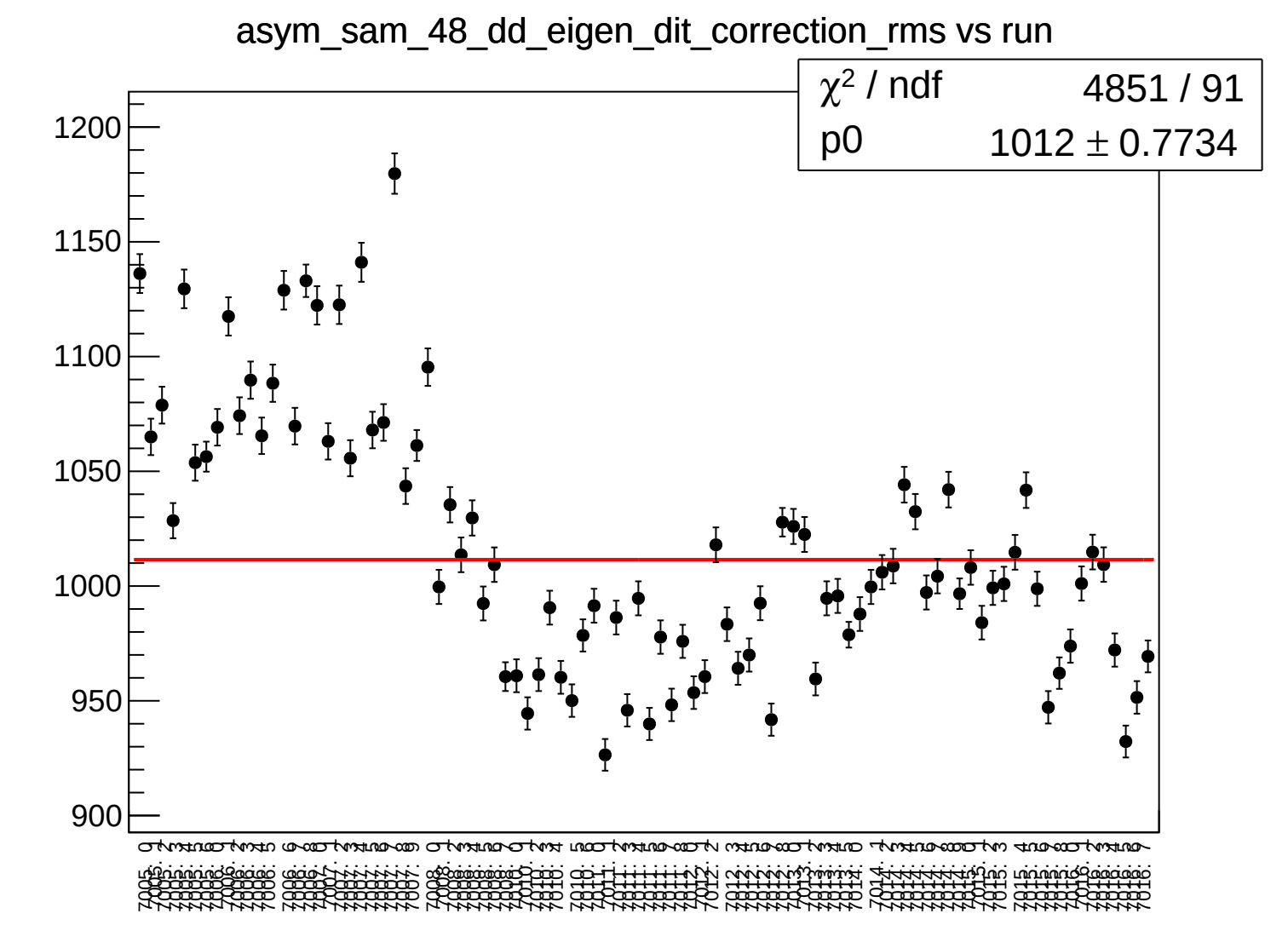

eigen_dit_asym_sam_48_dd_mean vs run
$\chi^2$ / ndf 62.4 / 91
p0 110.3 ± 143.1
4000
2000
0
−2000
−4000
pull
Entries 92
Mean 585.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

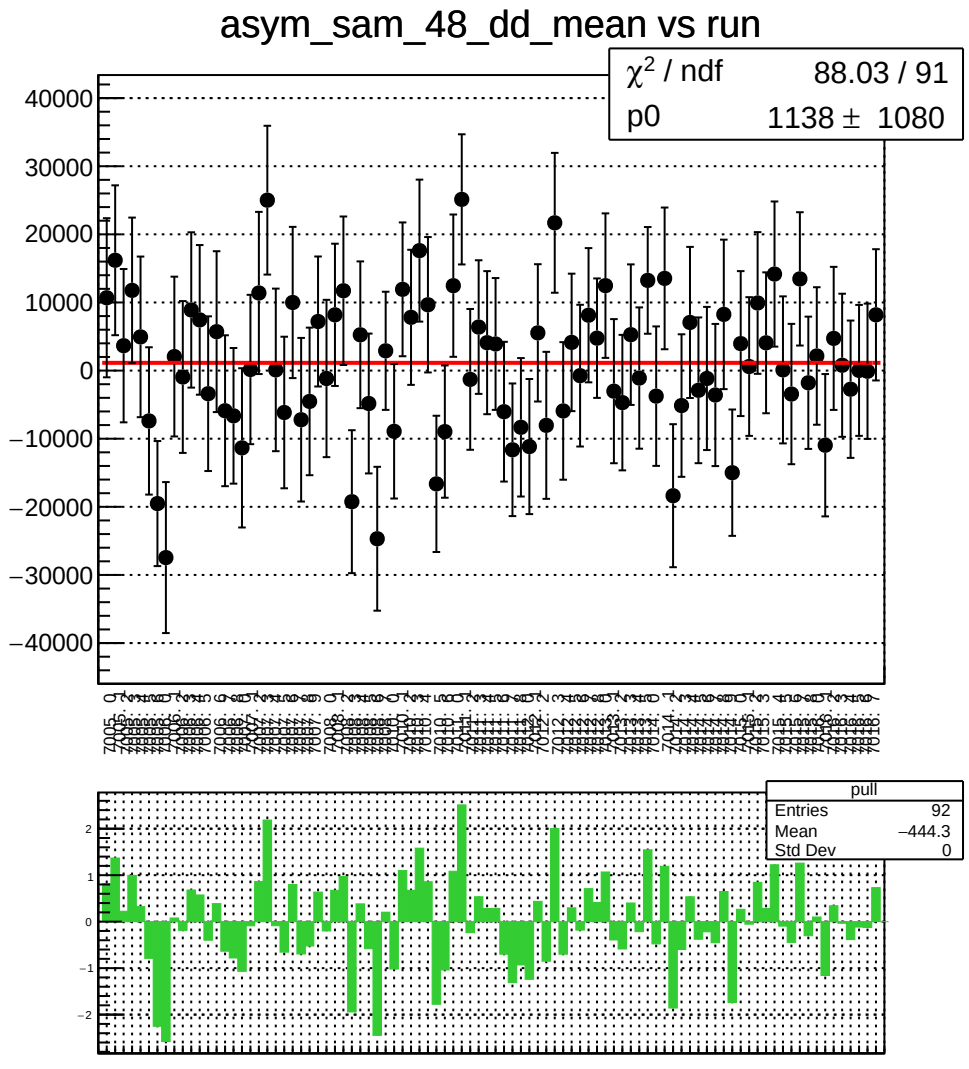

pull1D
Entries 92
Mean 0.009479
Std Dev 0.8235
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

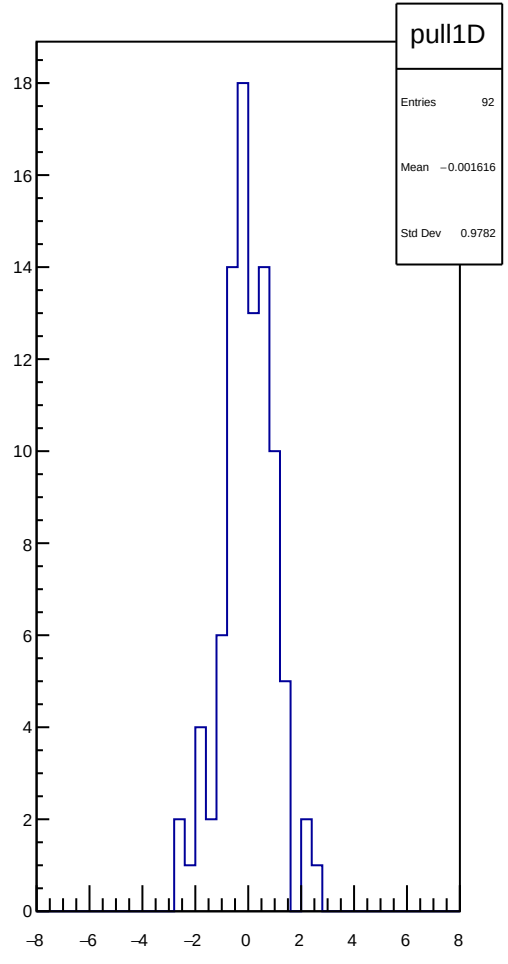

eigen_dit_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 2199 / 91
p0 132.4 ± 0.1012
145
140
135
130
125

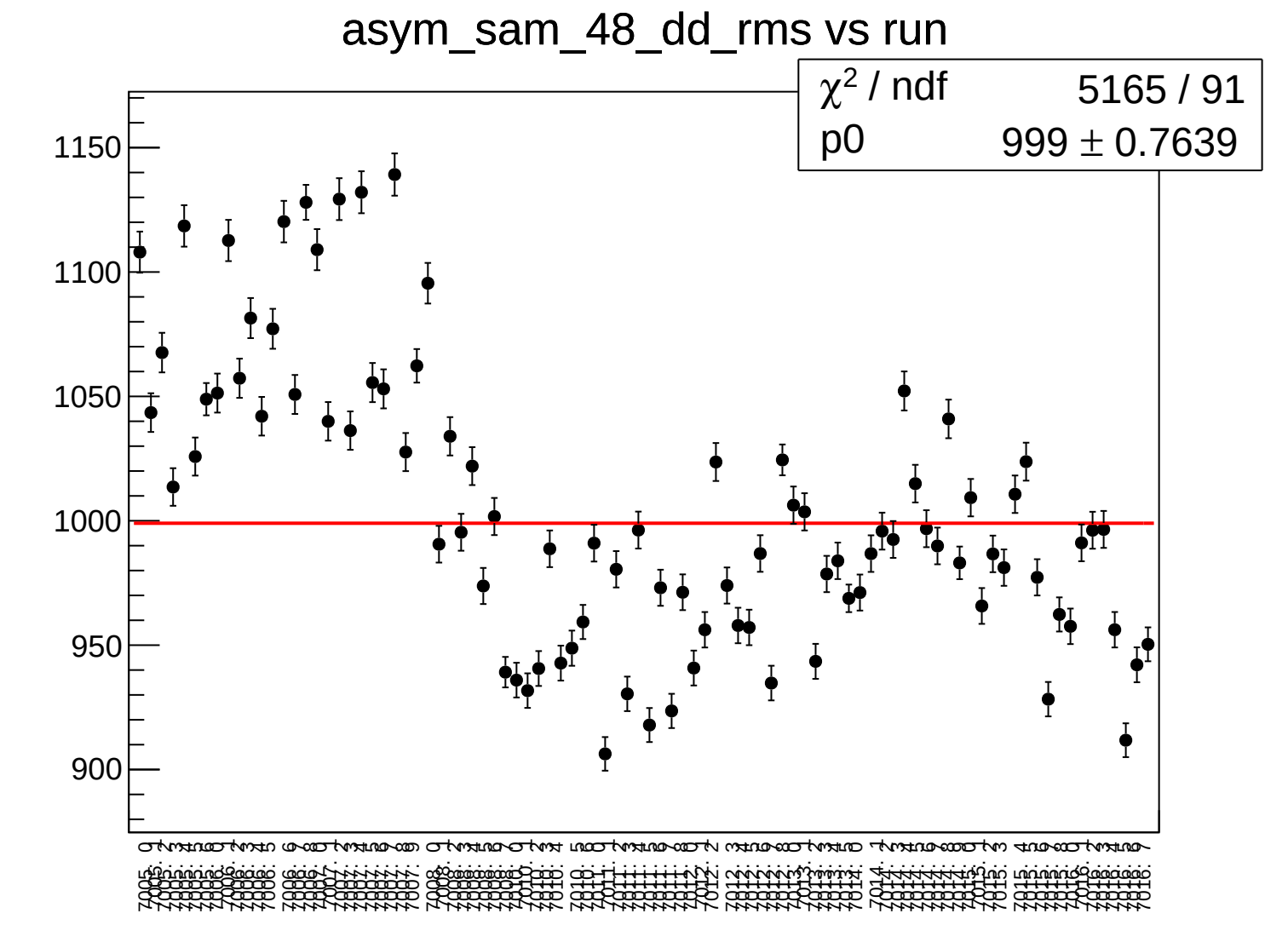

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.95 / 91
p0 −1012 ± 1094
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −9.69
Std Dev 0
2
1
0
−1
−2

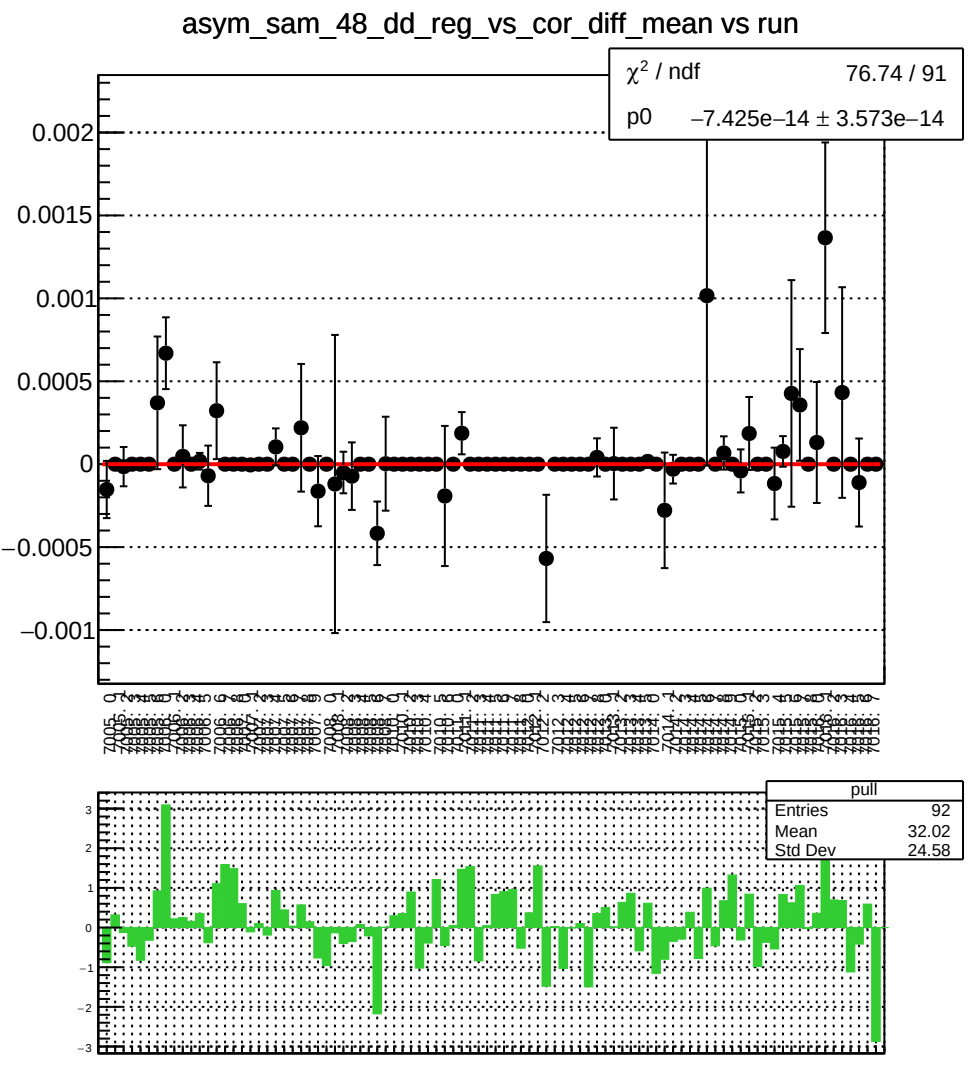

pull1D
Entries 92
Mean 0.002078
Std Dev 0.9888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

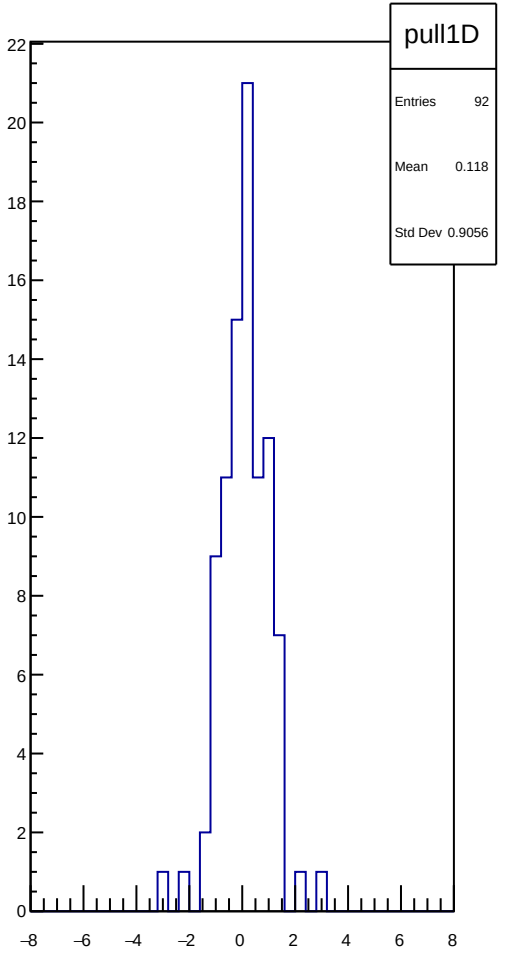

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4851 / 91
p0 1012 ± 0.7734
1200
1150
1100
1050
1000
950
900

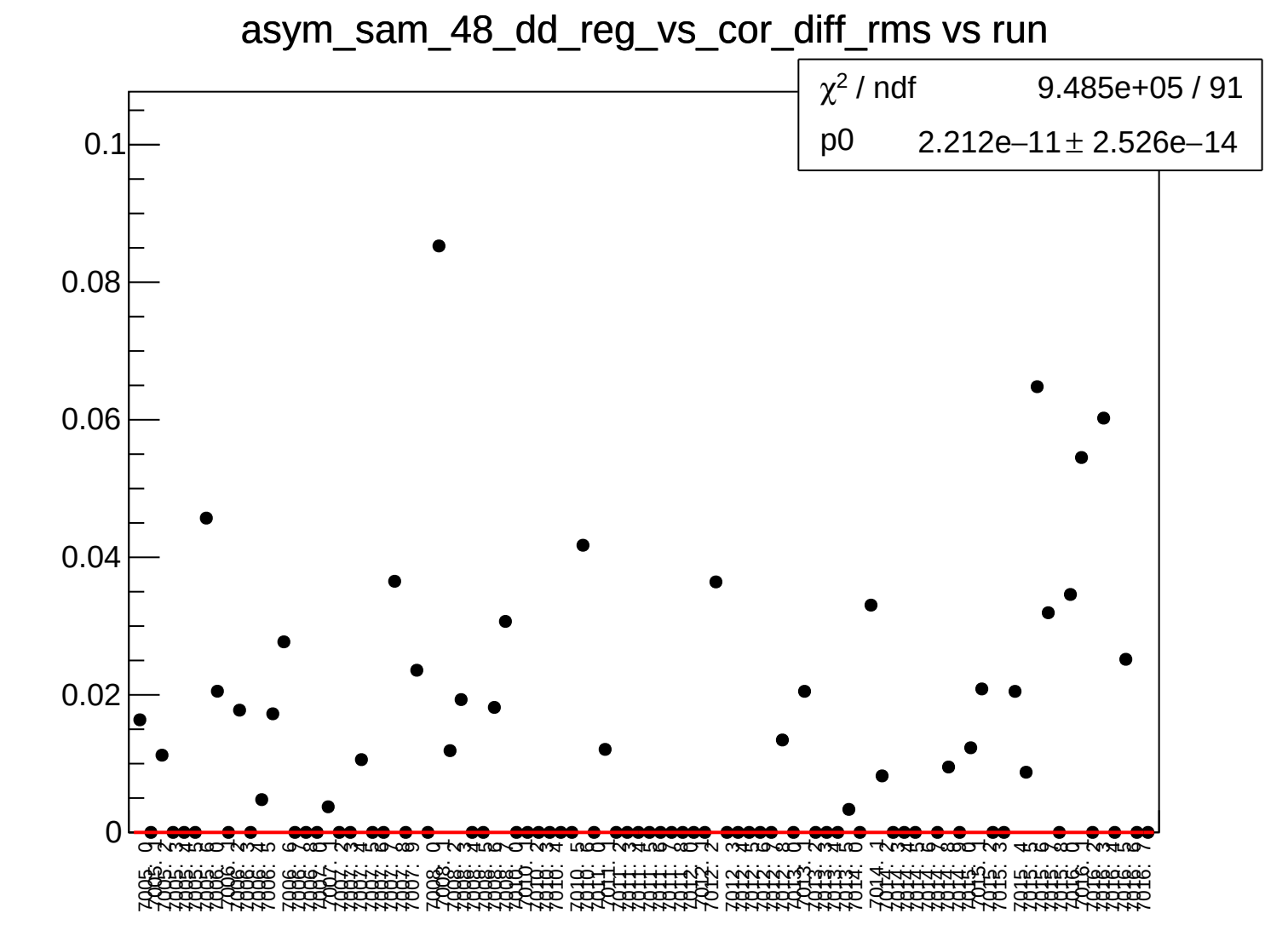

asym_sam_48_dd_mean vs run
χ² / ndf 88.03 / 91
p0 1138 ± 1080
pull
Entries 92
Mean −444.3
Std Dev 0

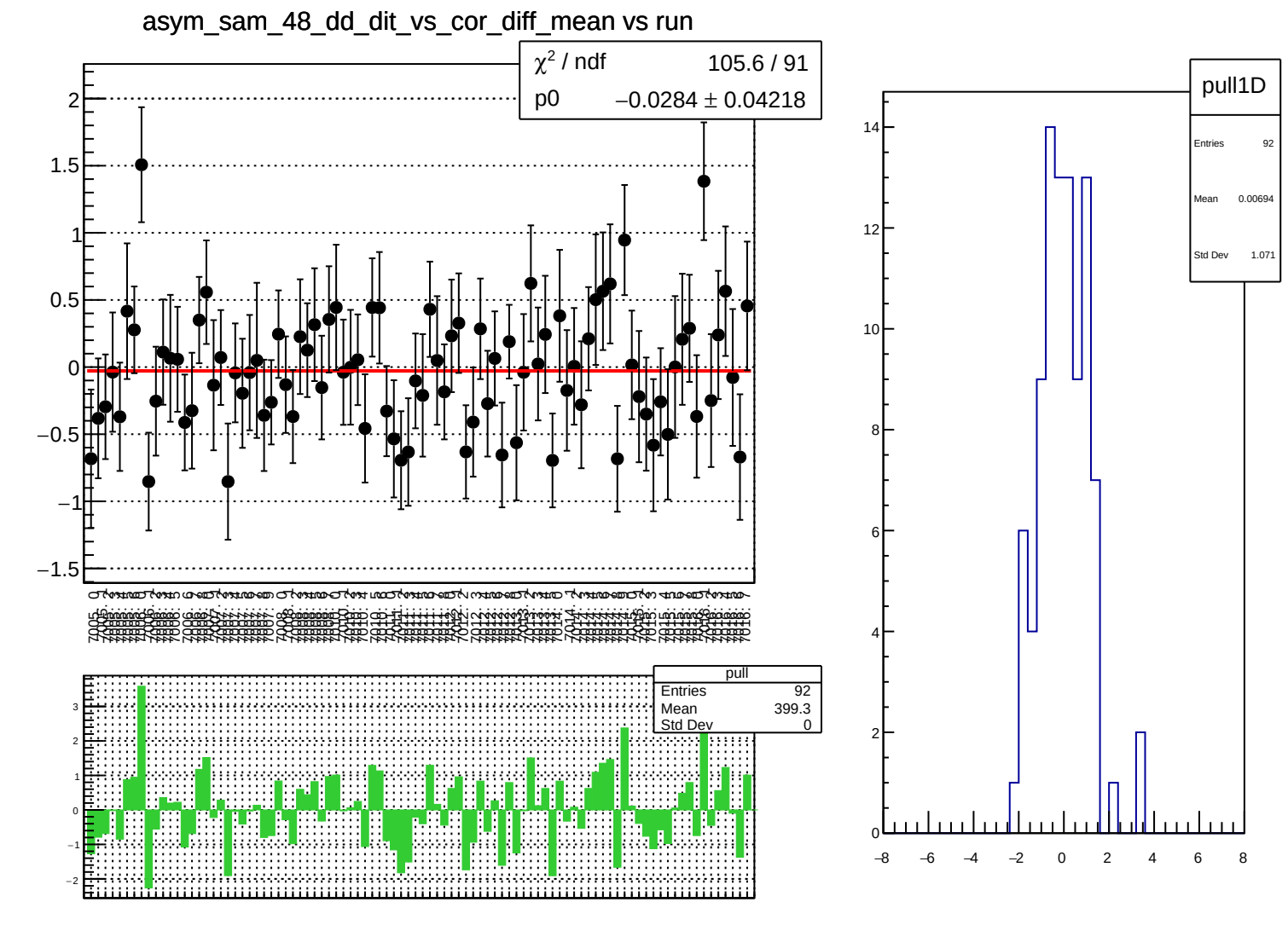

pull1D
Entries 92
Mean −0.001616
Std Dev 0.9782

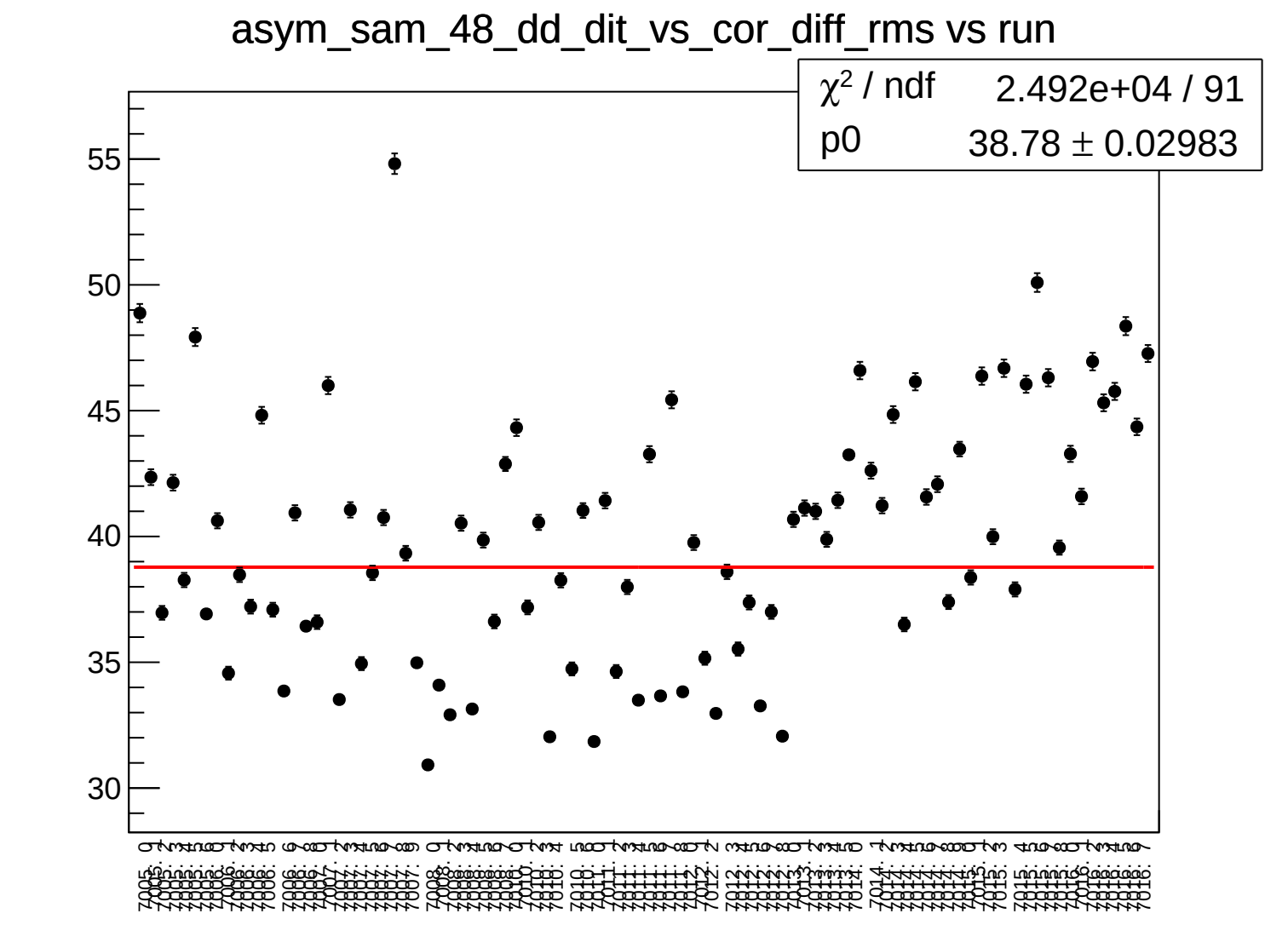

asym_sam_48_dd_rms vs run
χ² / ndf 5165 / 91
p0 999 ± 0.7639
1150
1100
1050
1000
950
900

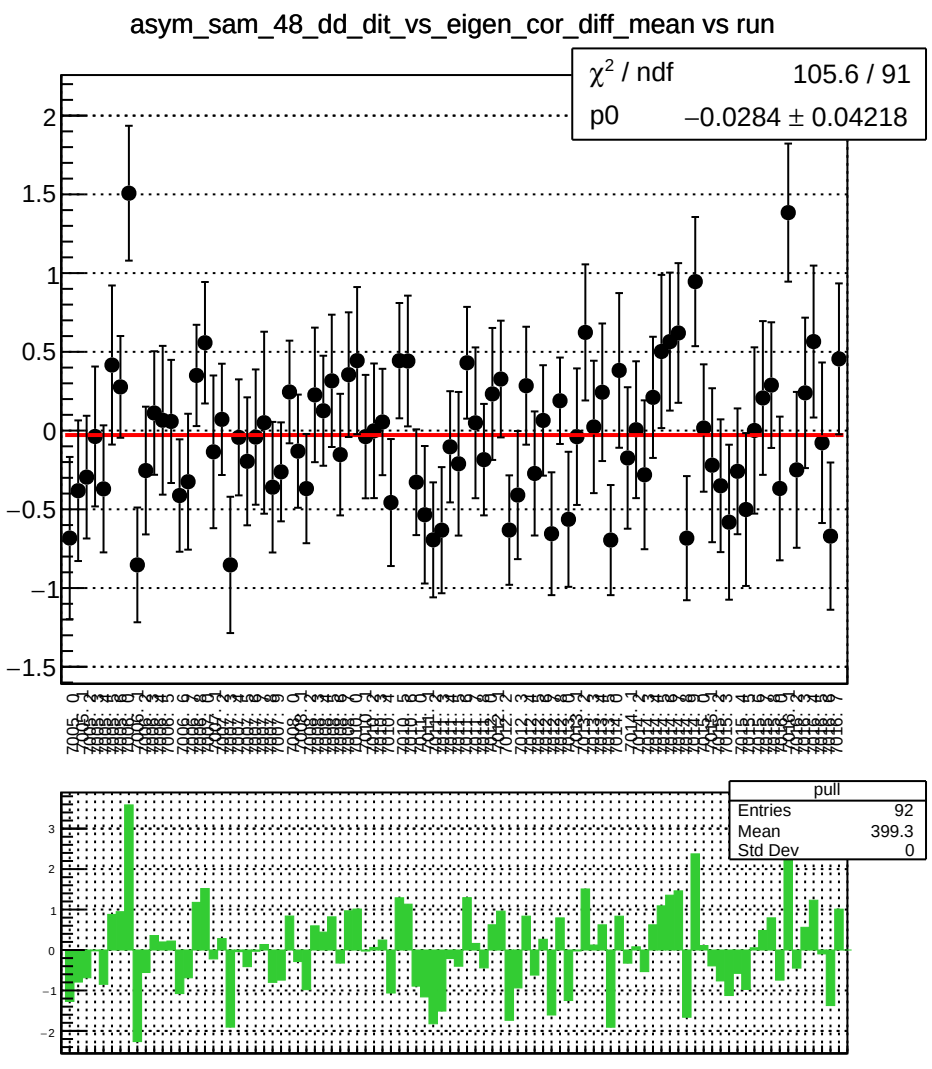

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.74 / 91
p0 −7.425e−14 ± 3.573e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 32.02
Std Dev 24.58
3
2
1
0
−1
−2
−3

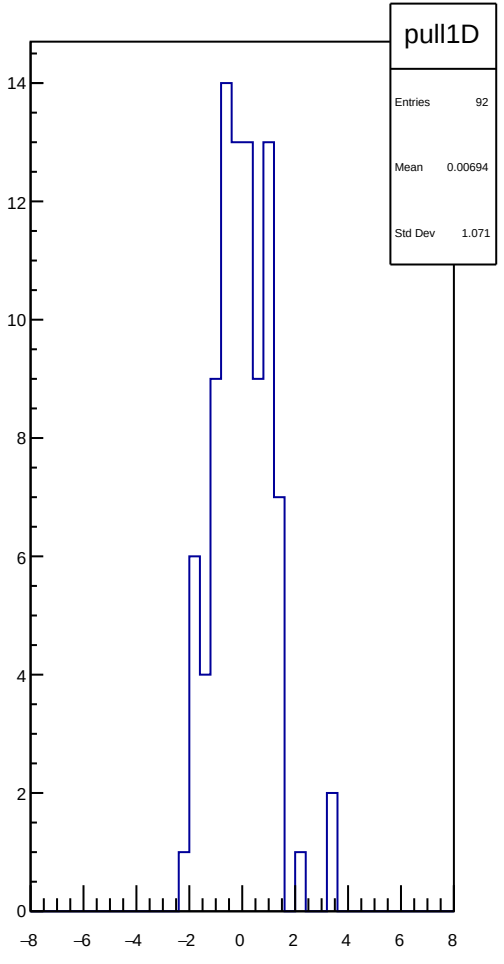

pull1D
Entries 92
Mean 0.118
Std Dev 0.9056
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

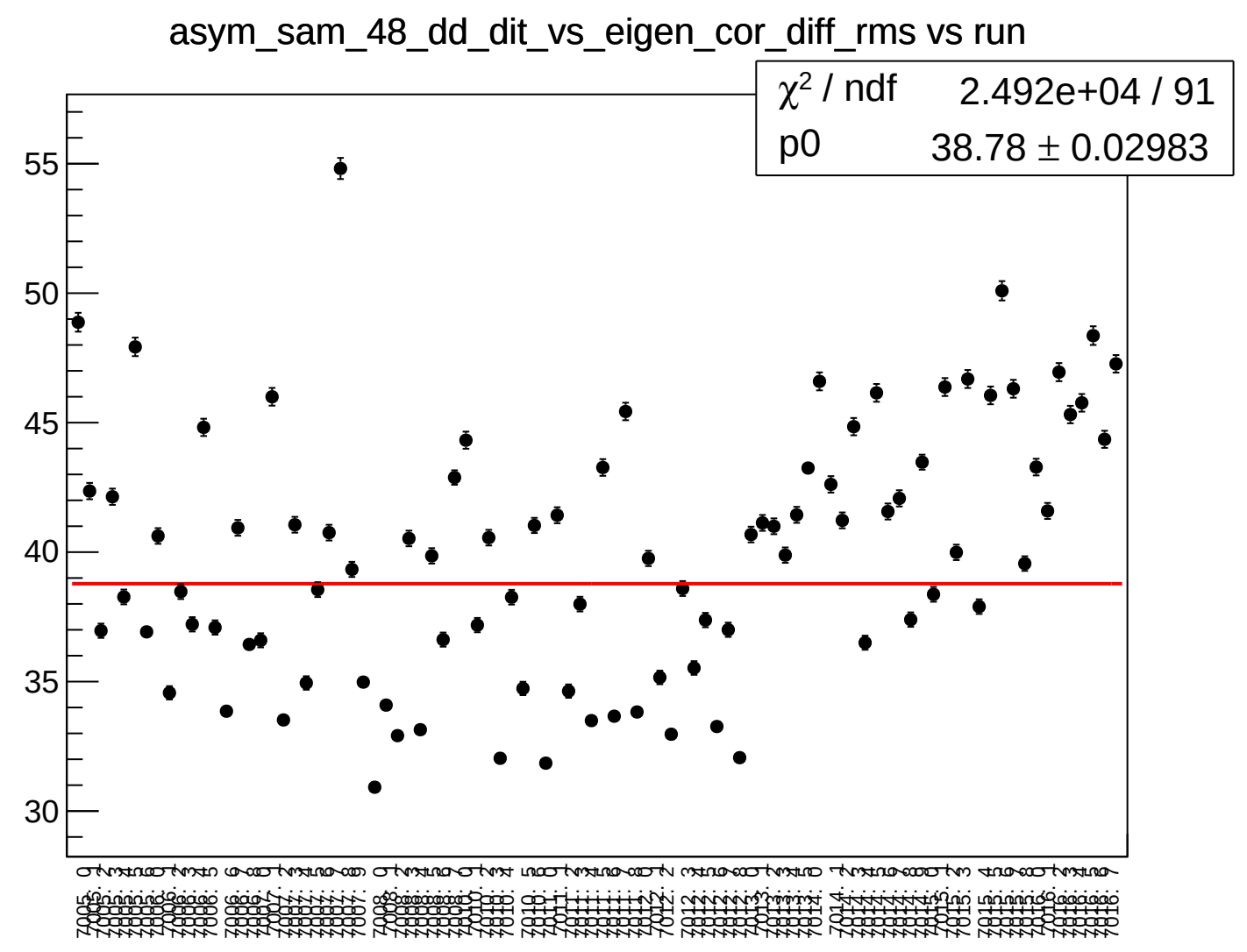

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.485e+05 / 91
p0 2.212e−11 ± 2.526e−14
0.1
0.08
0.06
0.04
0.02
0

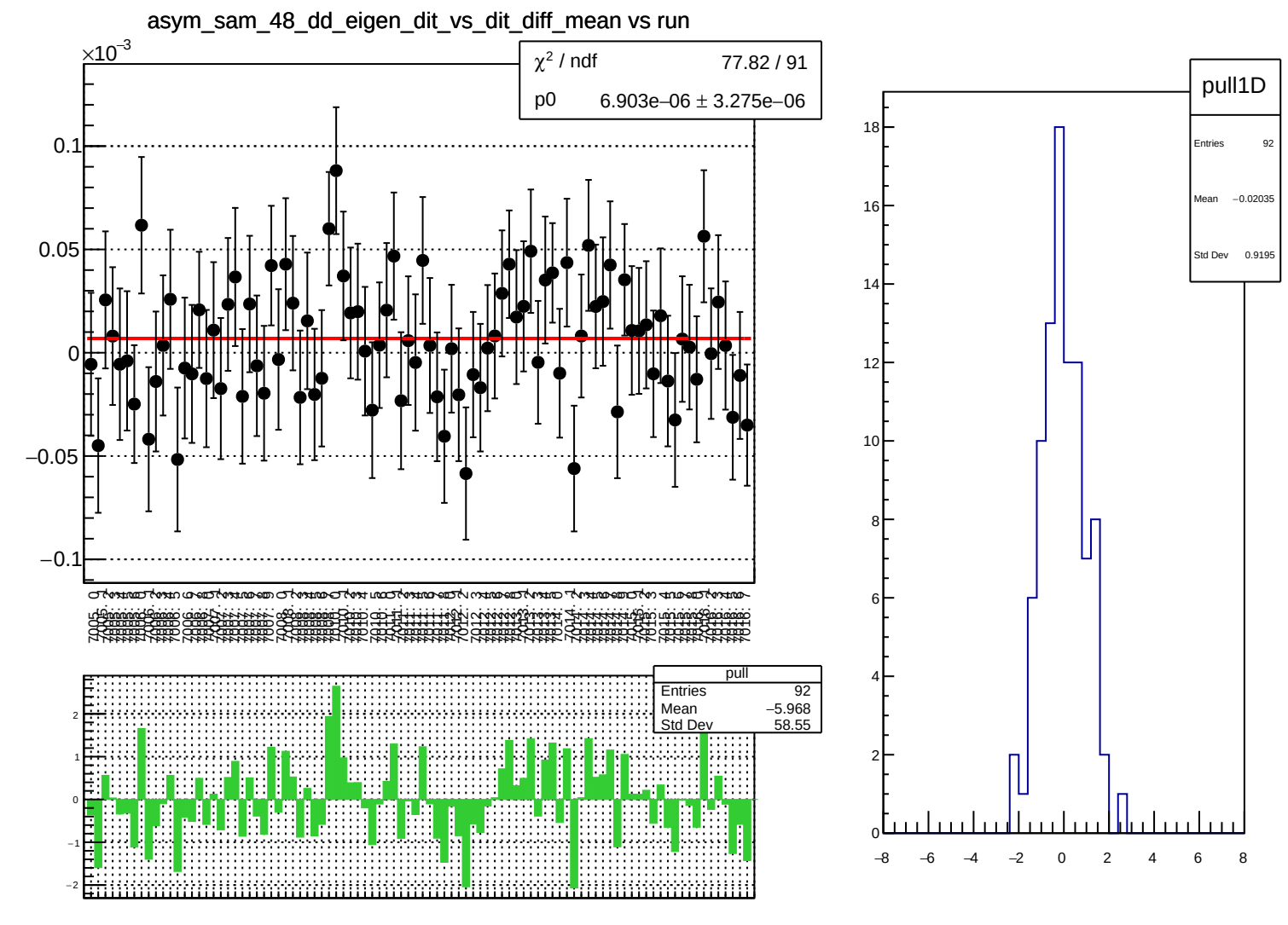

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 91
p0 −0.0284 ± 0.04218
pull
Entries 92
Mean 399.3
Std Dev 0
pull1D
Entries 92
Mean 0.00694
Std Dev 1.071

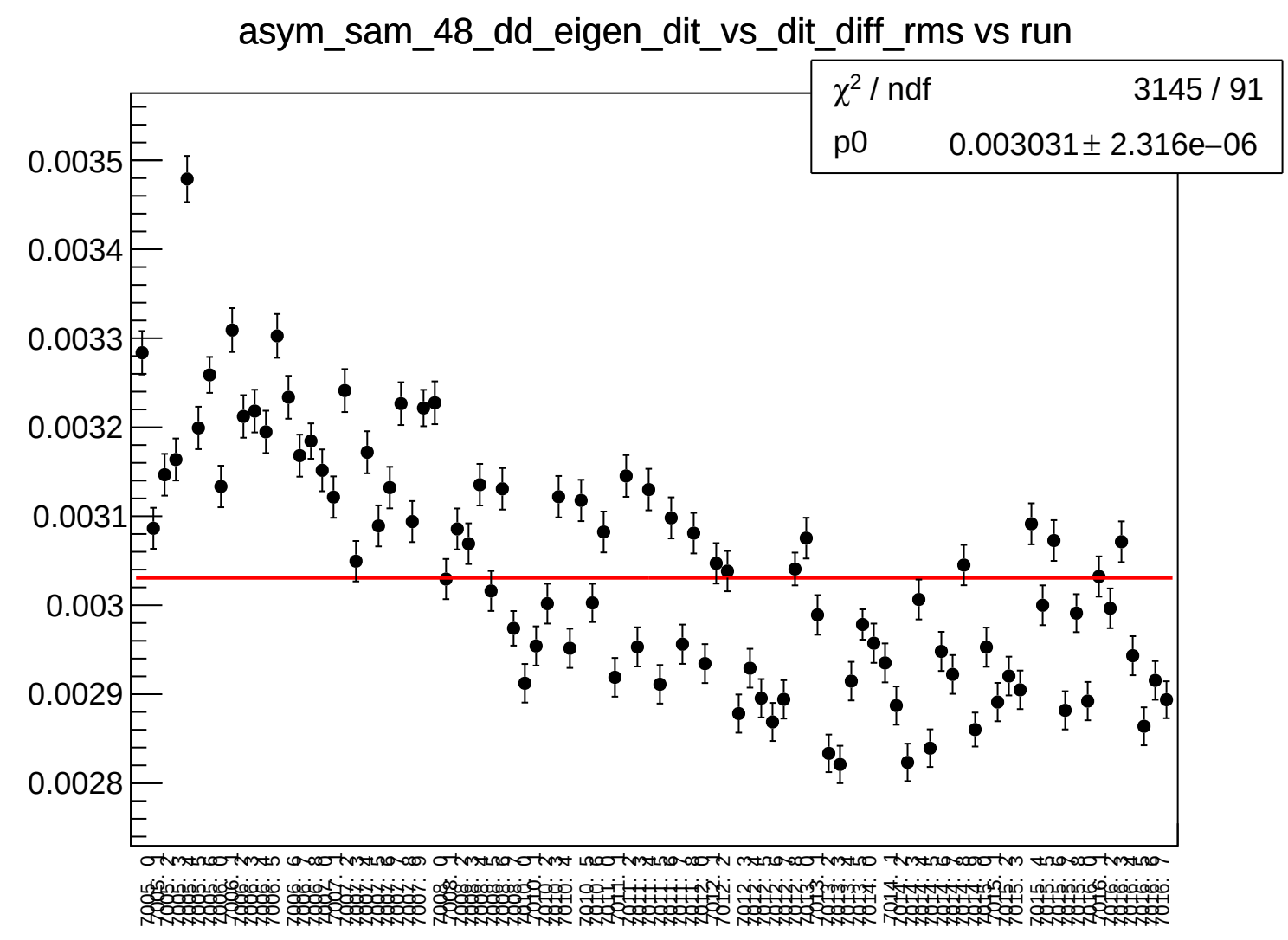

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.492e+04 / 91
p0 38.78 ± 0.02983
55
50
45
40
35
30

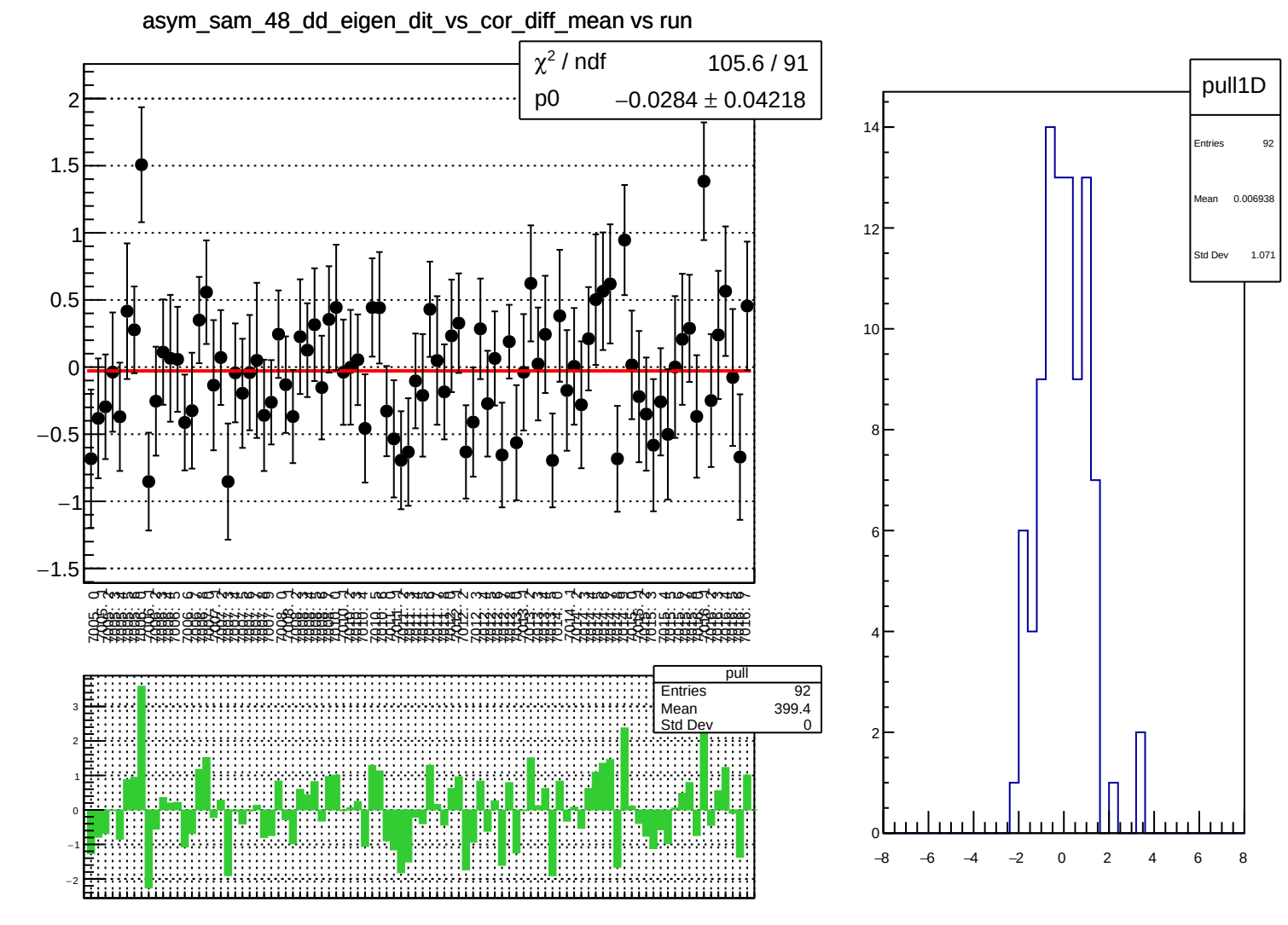

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.6 / 91
p0 −0.0284 ± 0.04218
pull
Entries 92
Mean 399.3
Std Dev 0

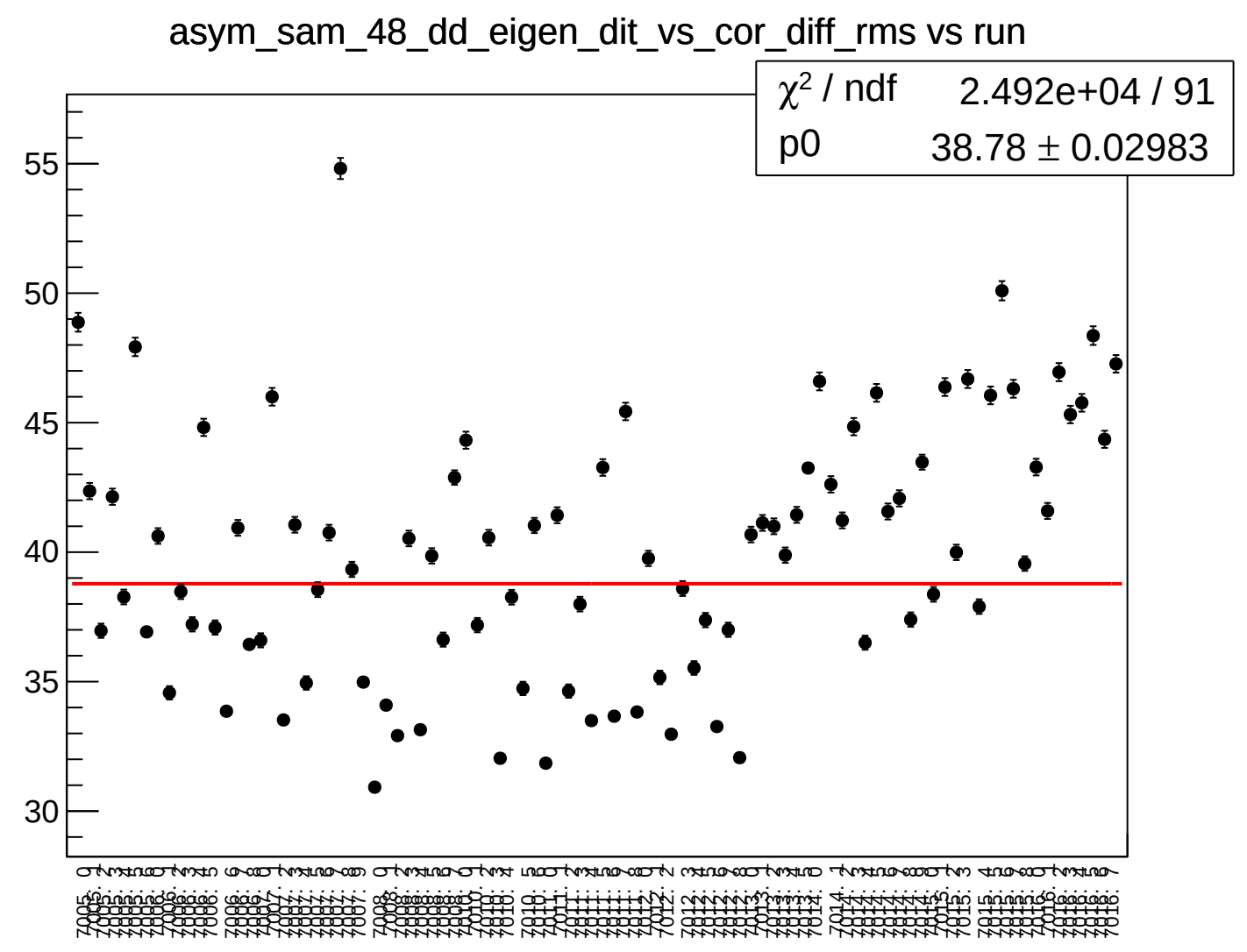

pull1D
Entries 92
Mean 0.00694
Std Dev 1.071

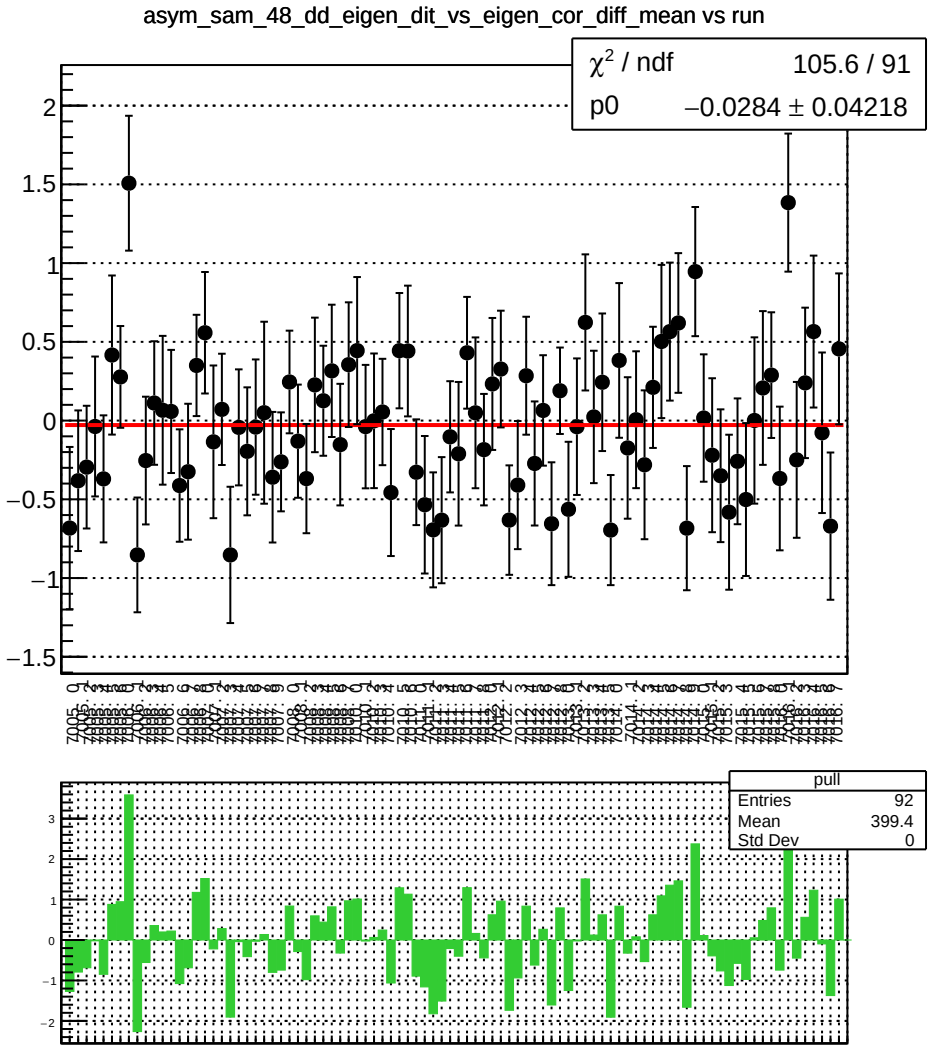

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.492e+04 / 91
p0 38.78 ± 0.02983
55
50
45
40
35
30

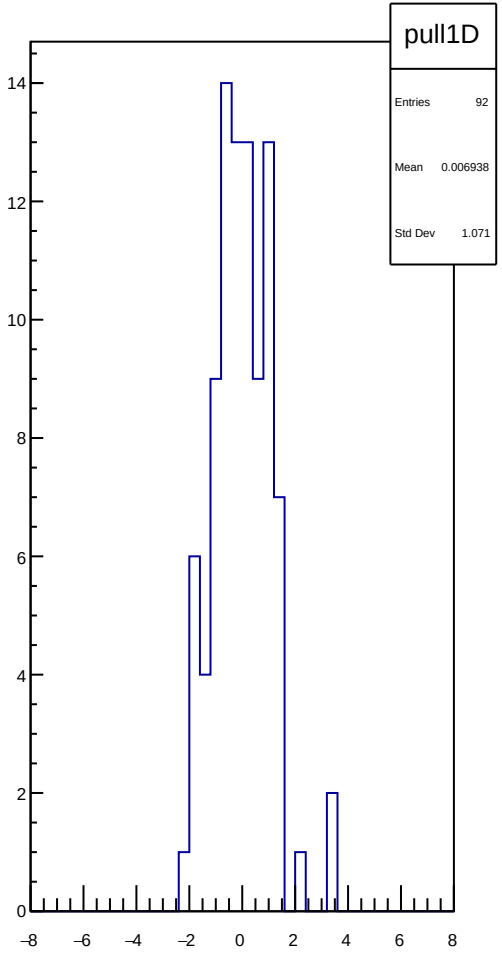

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.82 / 91
p0 6.903e−06 ± 3.275e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −5.968
Std Dev 58.55
pull1D
Entries 92
Mean −0.02035
Std Dev 0.9195

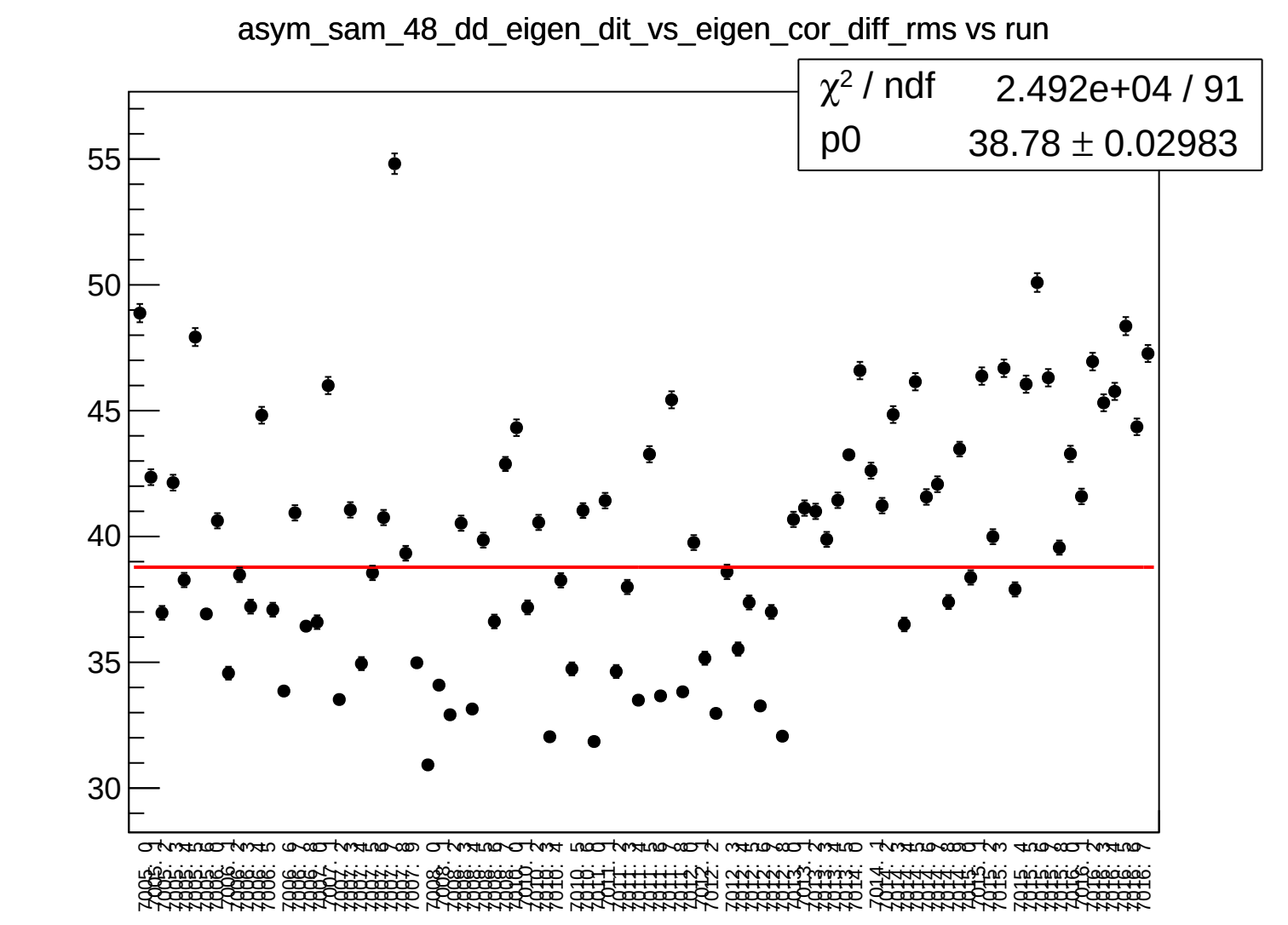

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3145 / 91
p0 0.003031 ± 2.316e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028

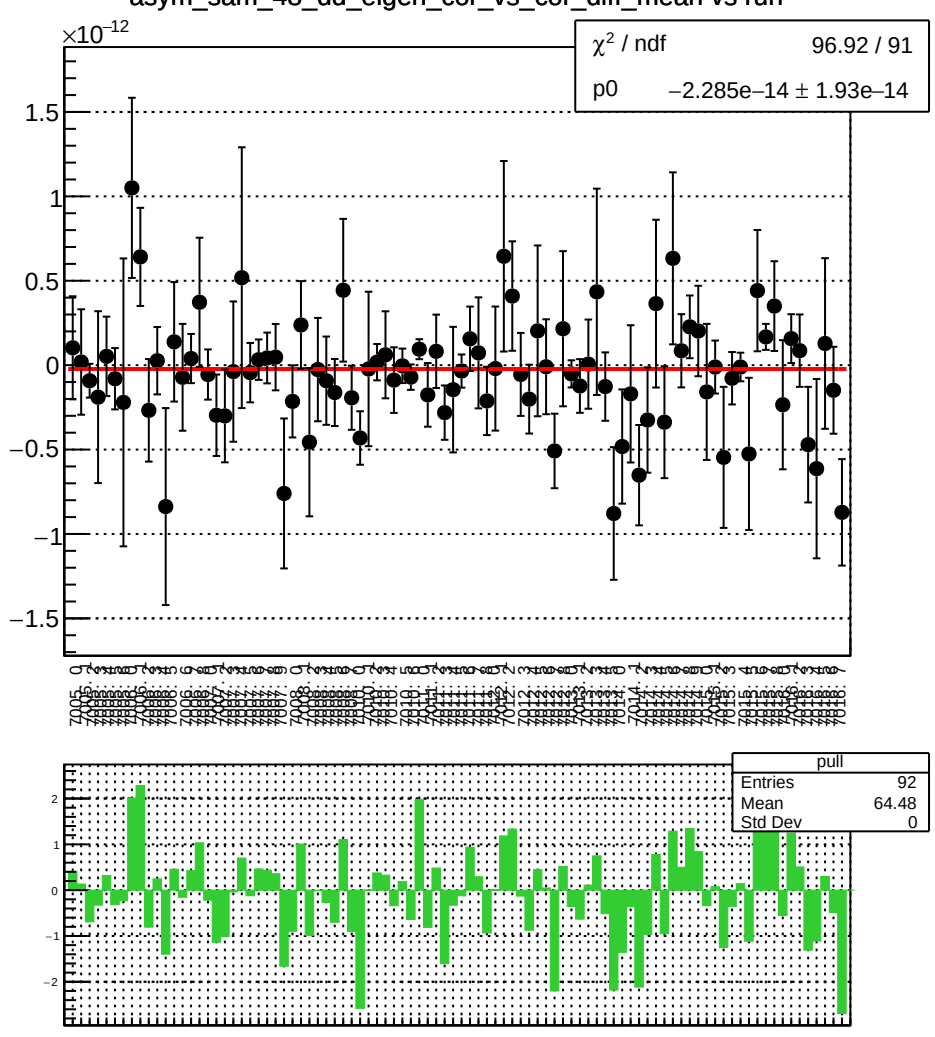

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.6 / 91
p0 −0.0284 ± 0.04218
pull
Entries 92
Mean 399.4
Std Dev 0
pull1D
Entries 92
Mean 0.006938
Std Dev 1.071

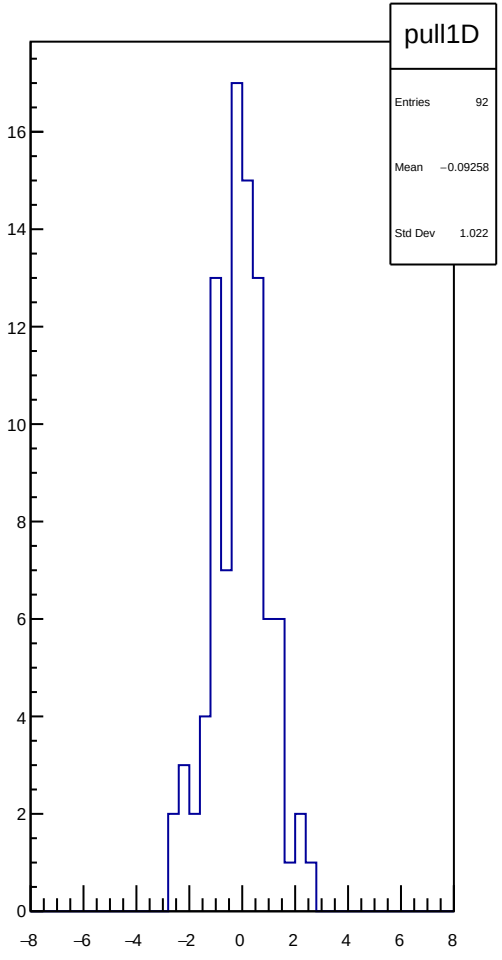

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.492e+04 / 91
p0 38.78 ± 0.02983
55
50
45
40
35
30

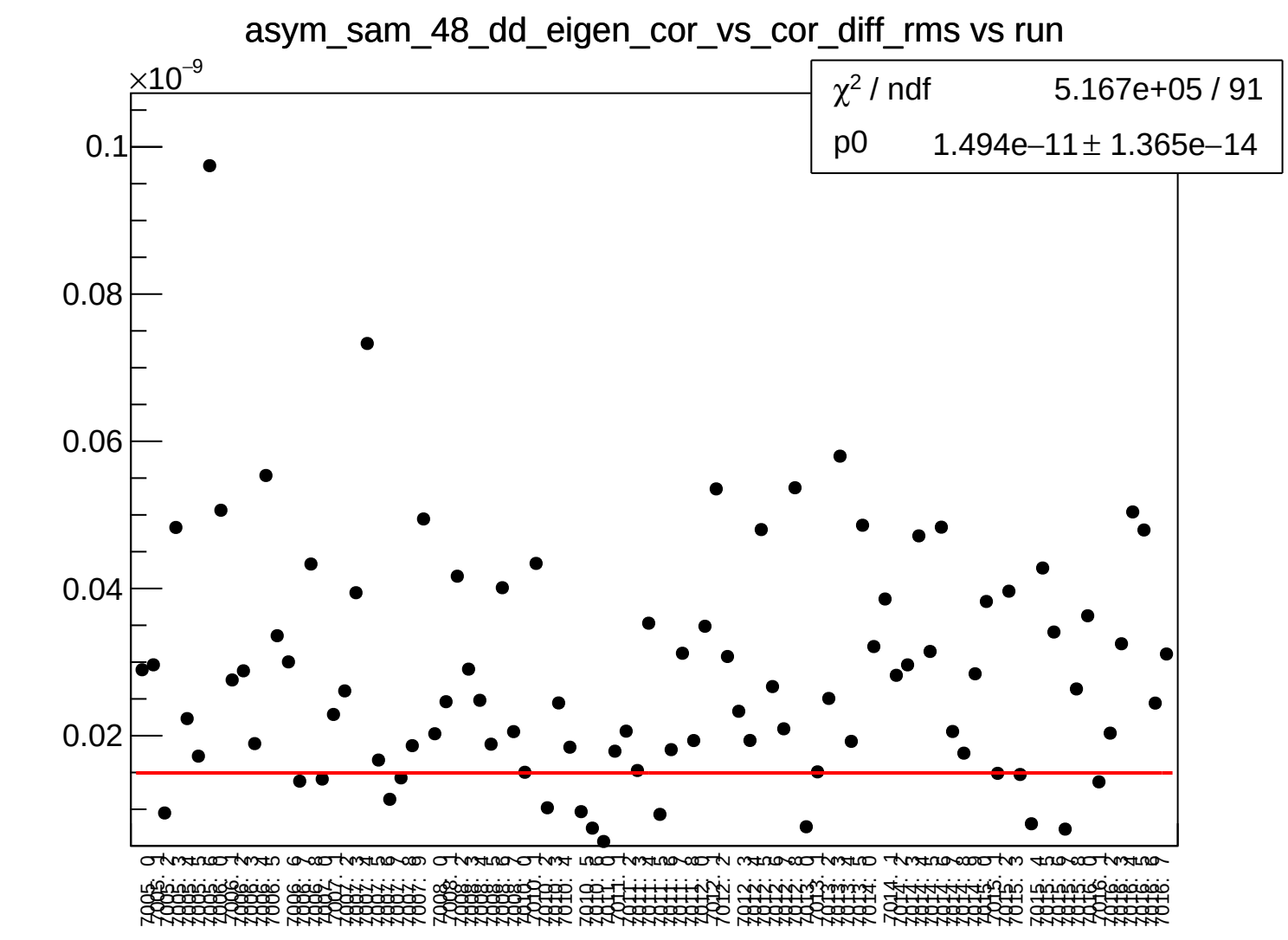

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.6 / 91
p0 −0.0284 ± 0.04218
pull
Entries 92
Mean 399.4
Std Dev 0

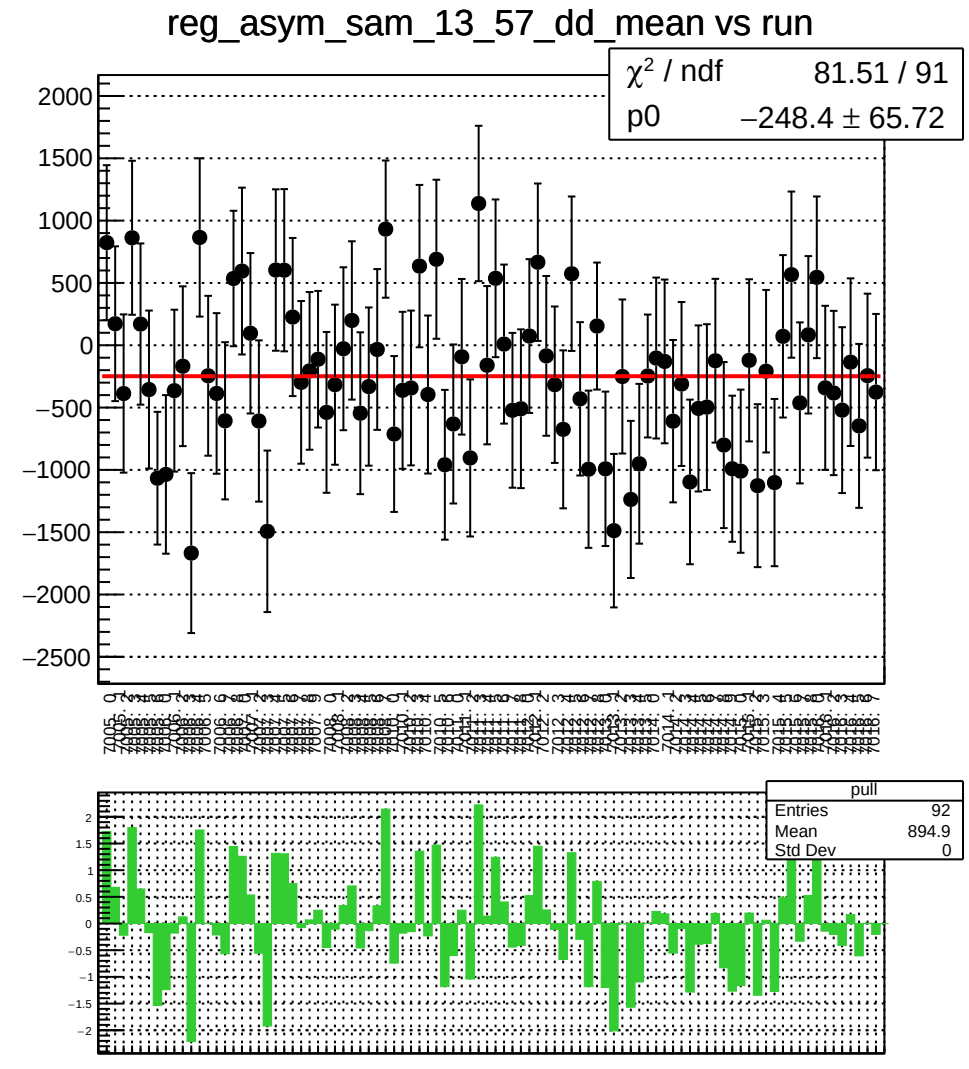

pull1D
Entries 92
Mean 0.006938
Std Dev 1.071

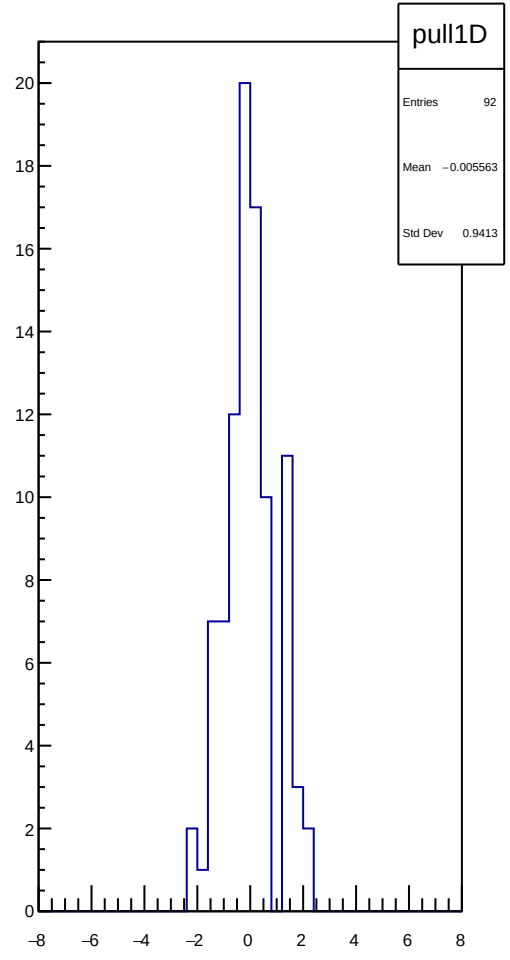

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.492e+04 / 91
p0 38.78 ± 0.02983
55
50
45
40
35
30

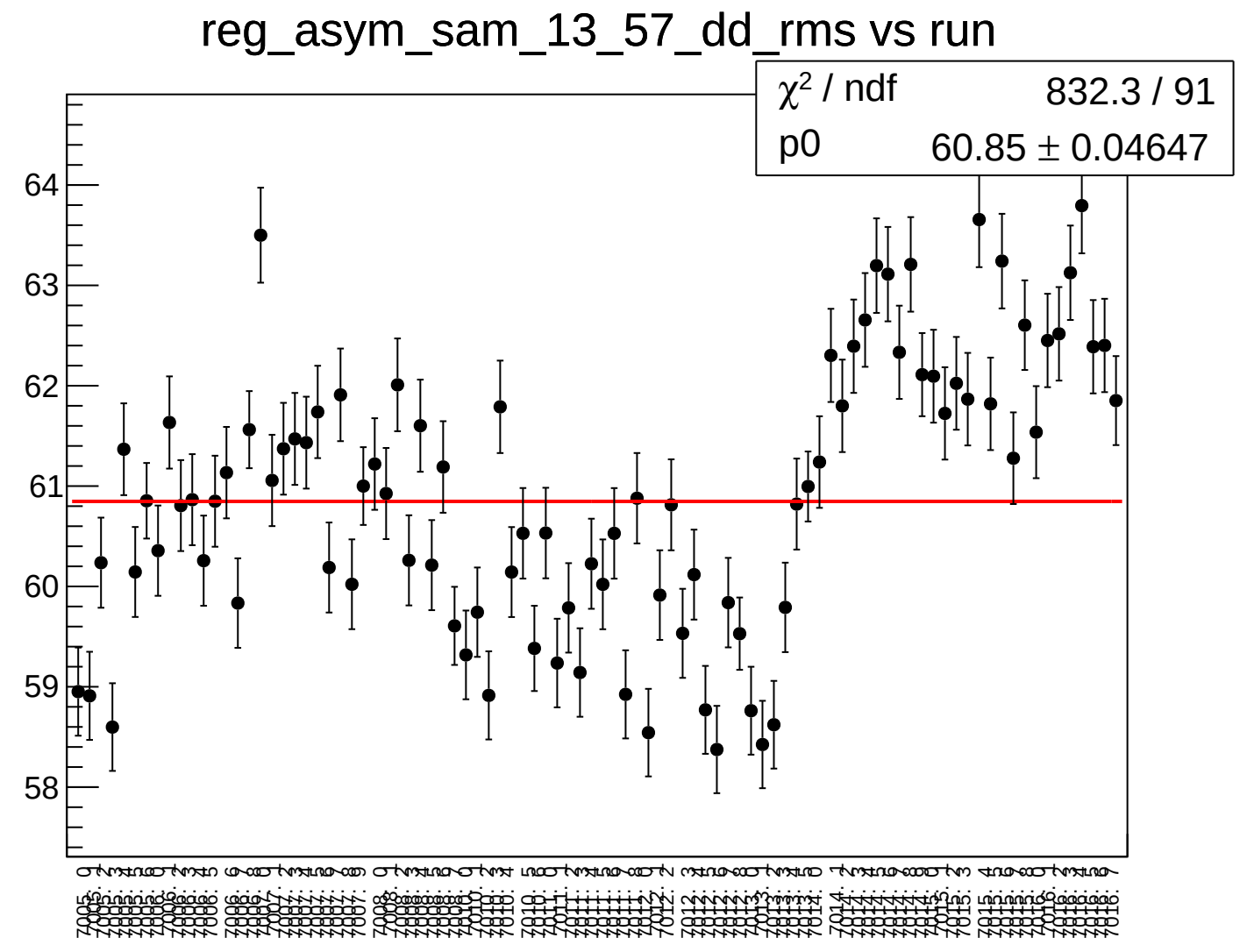

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 96.92 / 91
p0 −2.285e−14 ± 1.93e−14
pull
Entries 92
Mean 64.48
Std Dev 0

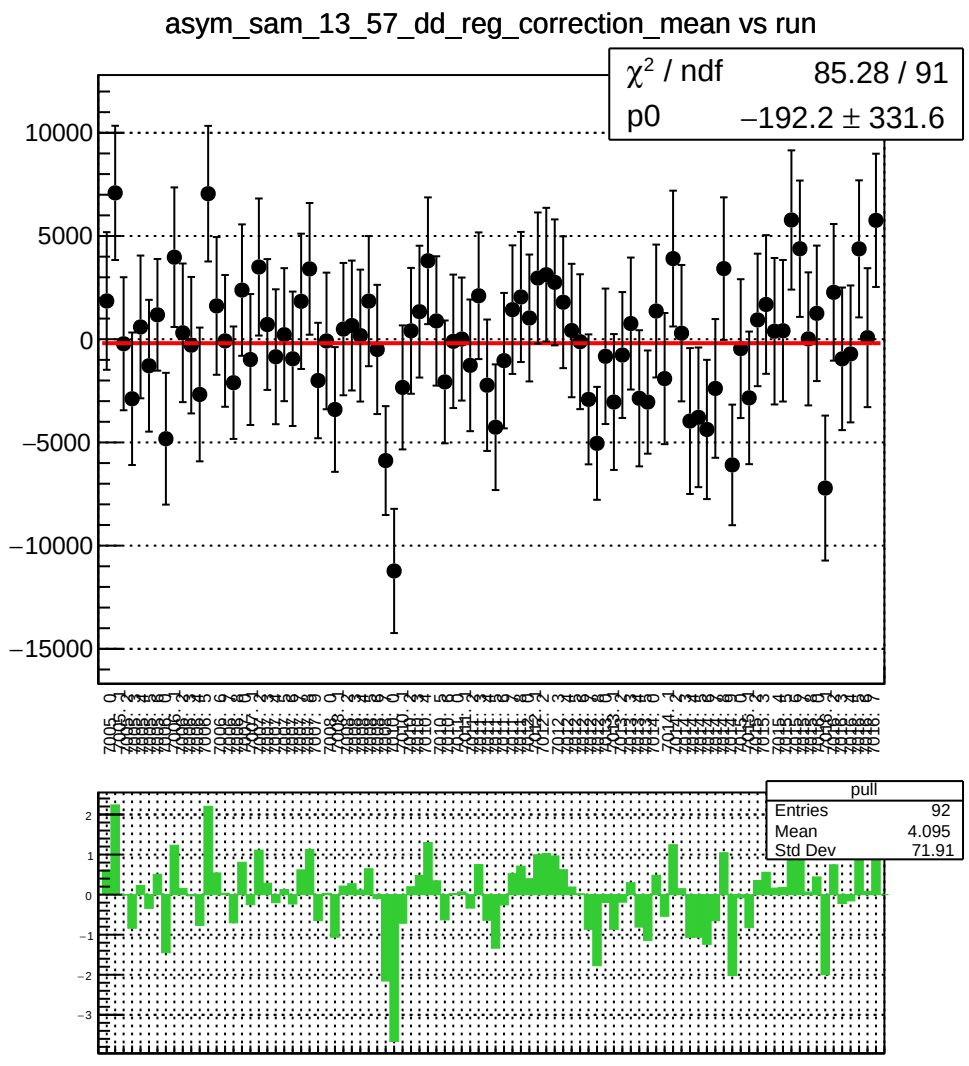

pull1D
Entries 92
Mean −0.09258
Std Dev 1.022

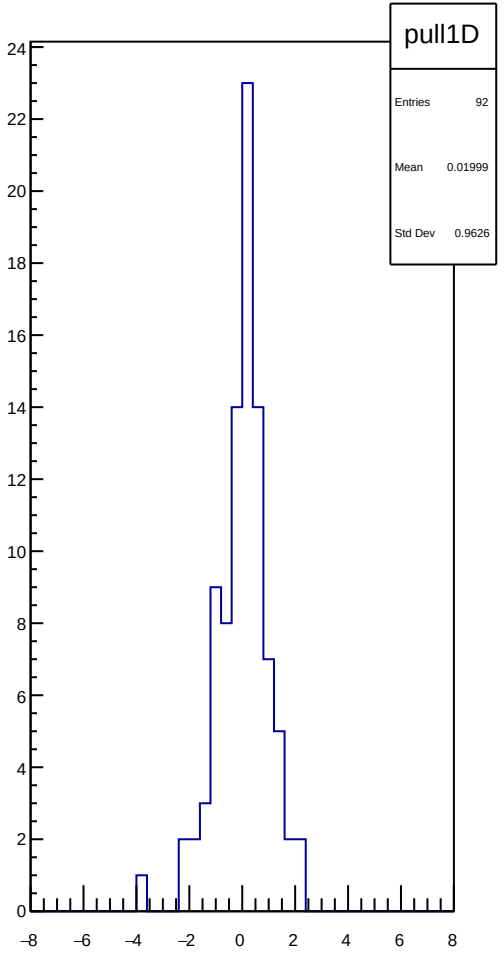

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.167e+05 / 91
p0 1.494e−11 ± 1.365e−14
0.1
0.08
0.06
0.04
0.02

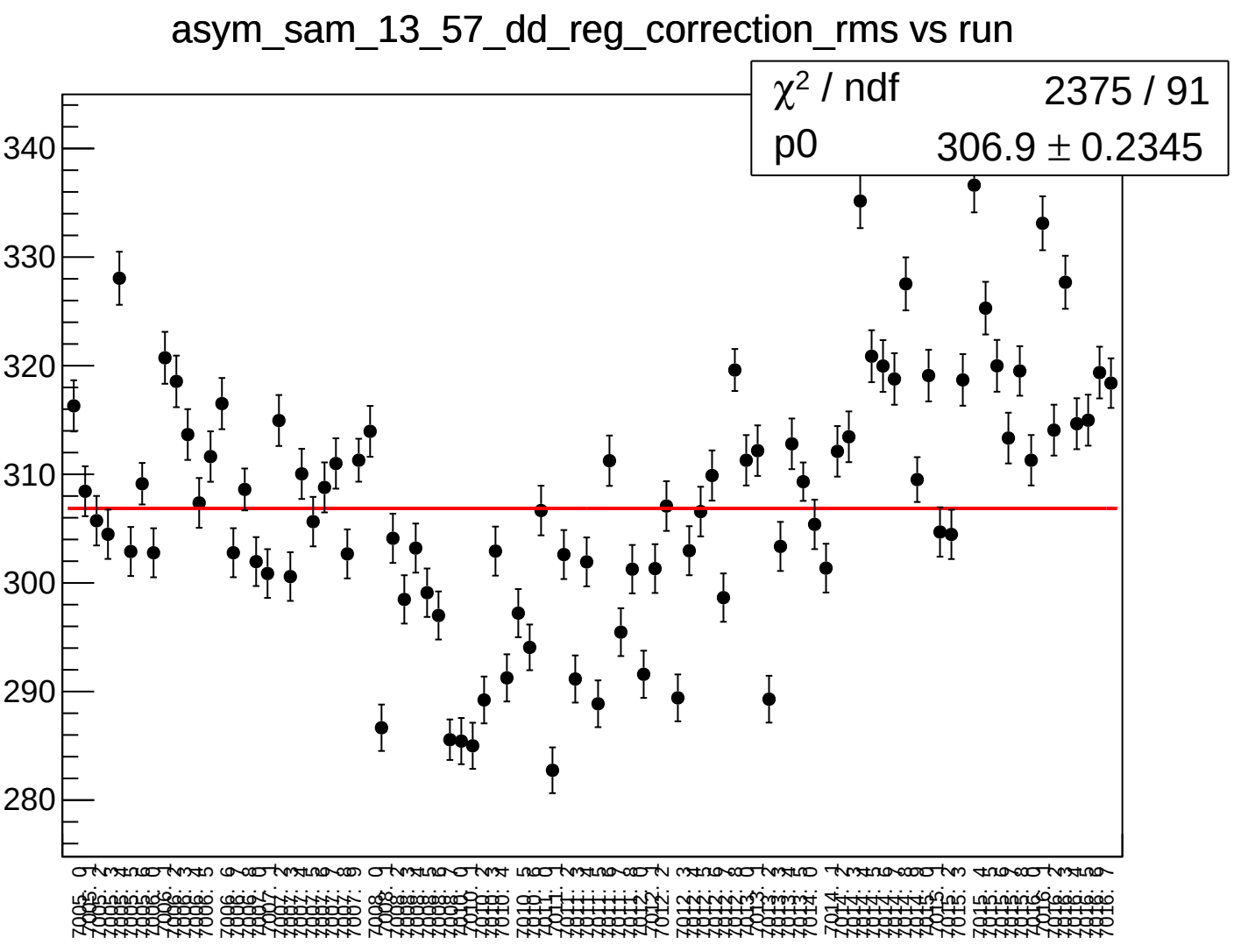

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 81.51 / 91
p0 −248.4 ± 65.72
pull
Entries 92
Mean 894.9
Std Dev 0

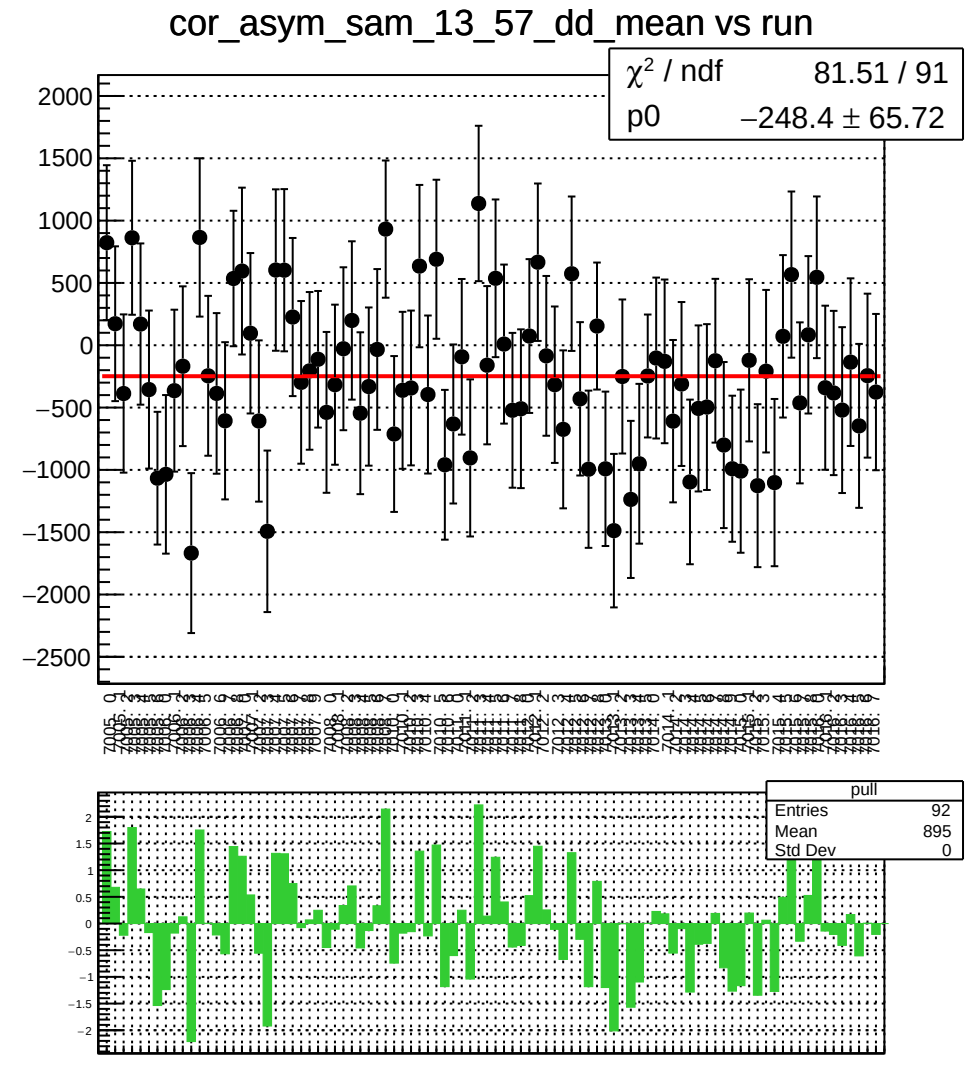

pull1D
Entries 92
Mean −0.005563
Std Dev 0.9413

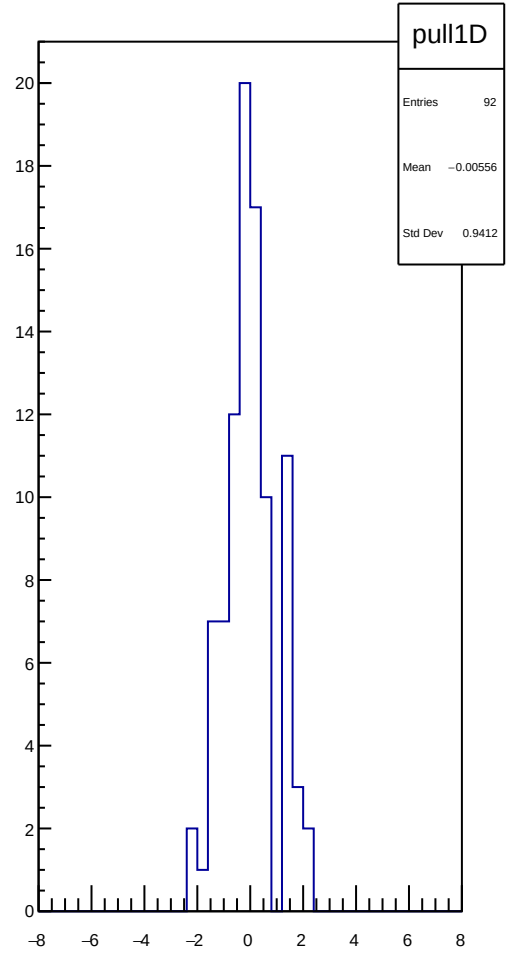

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 832.3 / 91
p0 60.85 ± 0.04647
64
63
62
61
60
59
58

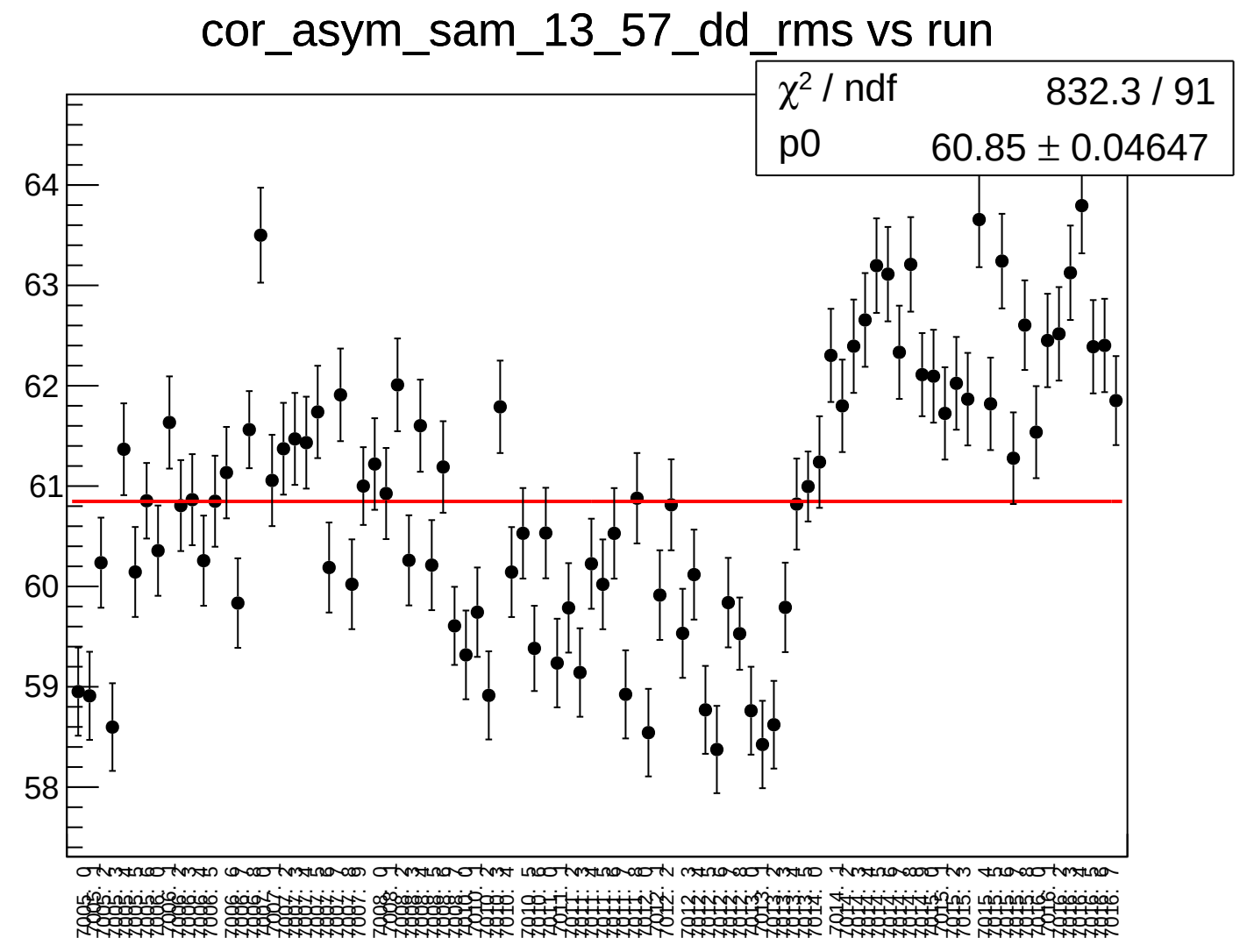

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 85.28 / 91
p0 −192.2 ± 331.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 4.095
Std Dev 71.91
2
1
0
−1
−2
−3

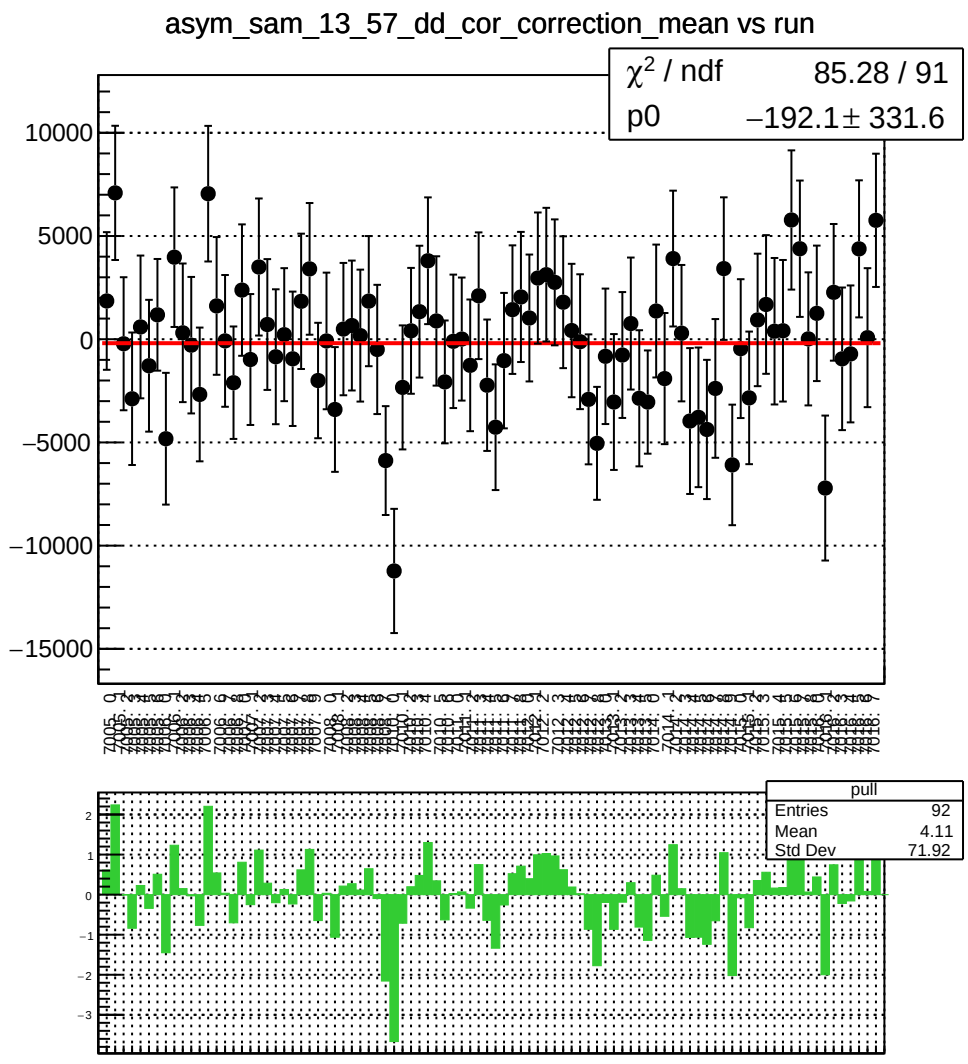

pull1D
Entries 92
Mean 0.01999
Std Dev 0.9626
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

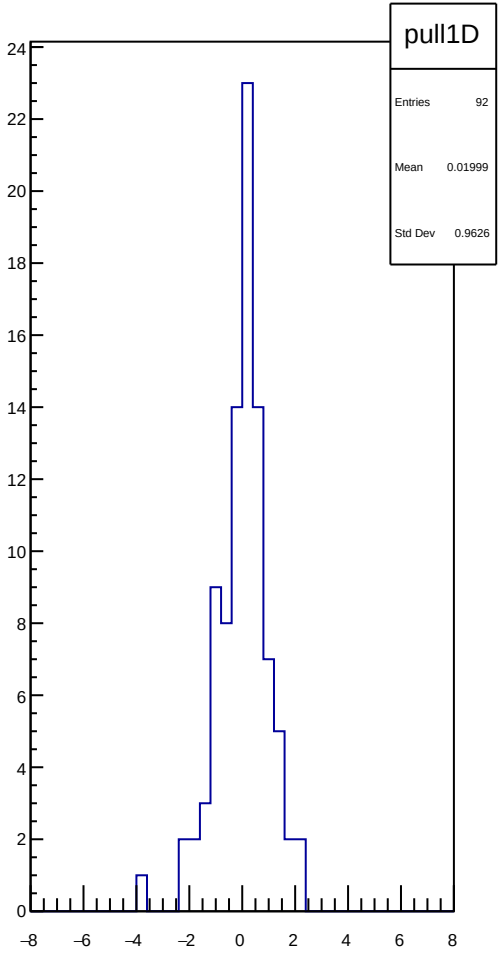

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2375 / 91
p0 306.9 ± 0.2345
340
330
320
310
300
290
280

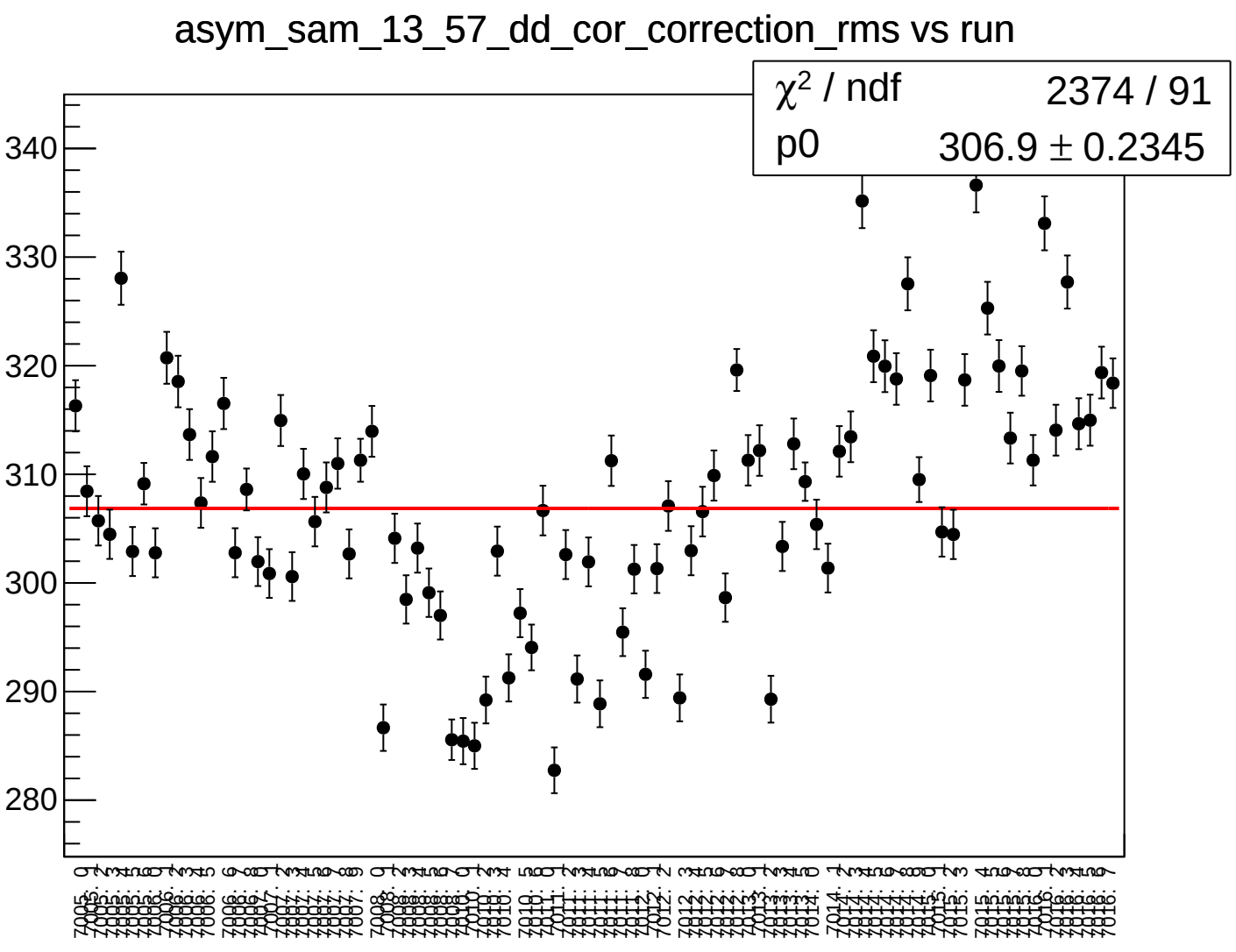

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 81.51 / 91
p0 −248.4 ± 65.72
pull
Entries 92
Mean 895
Std Dev 0

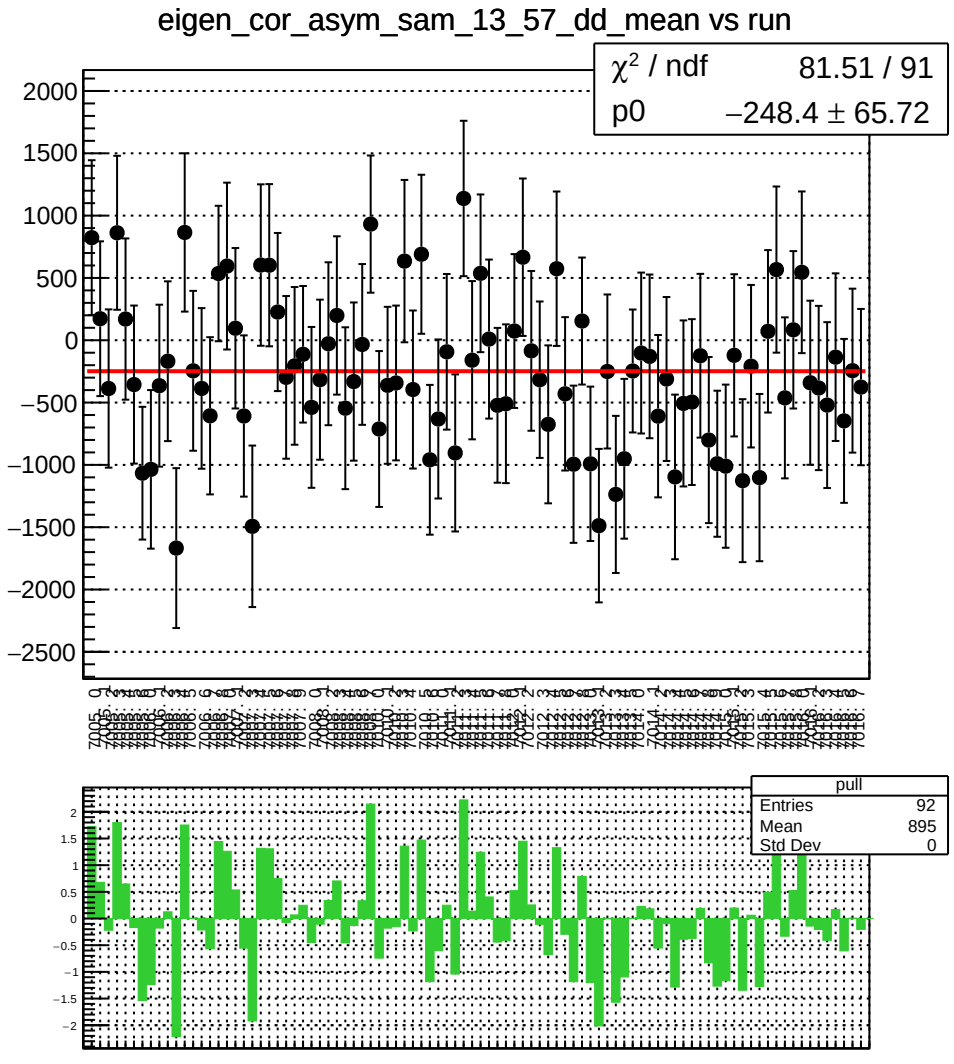

pull1D
Entries 92
Mean −0.00556
Std Dev 0.9412

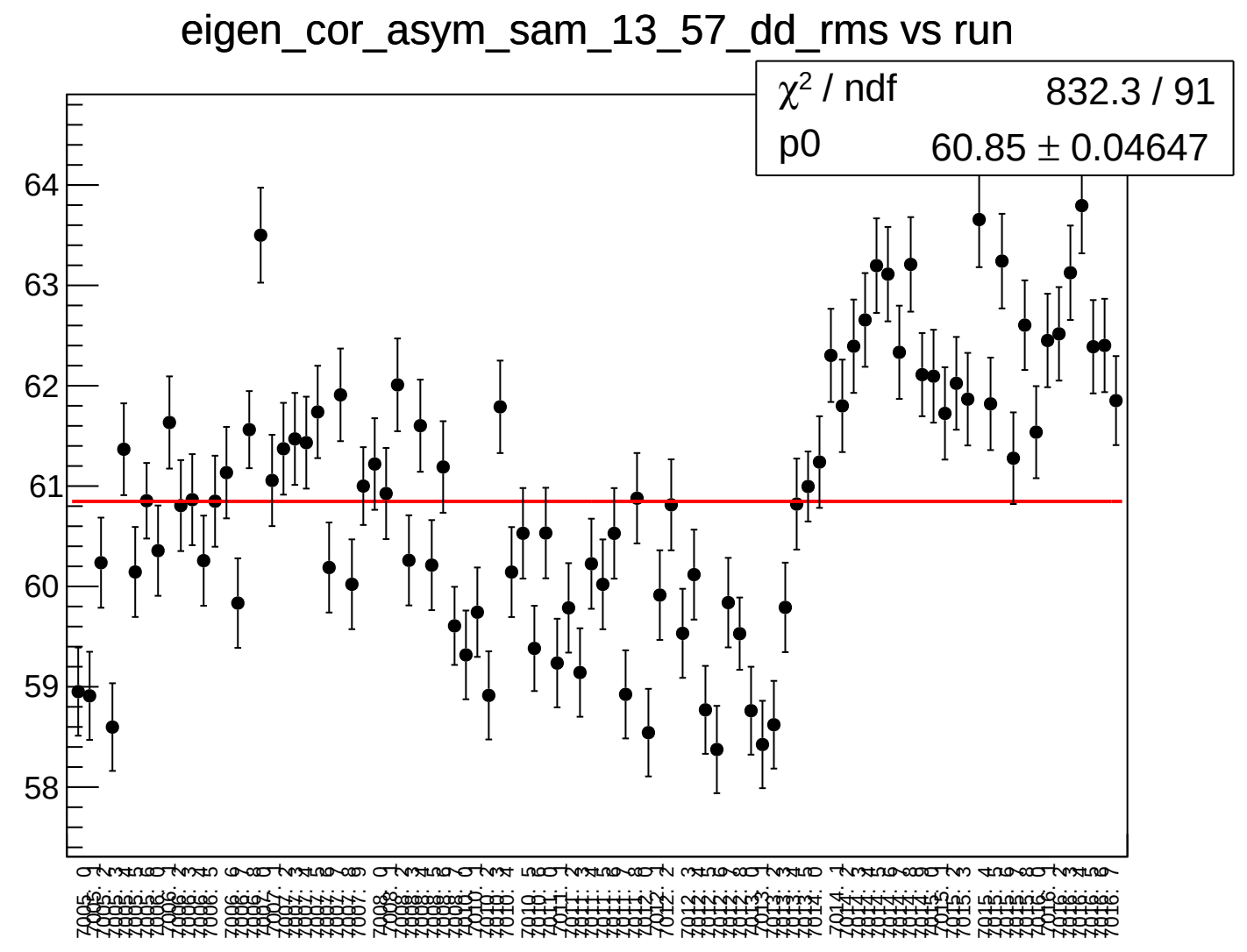

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 832.3 / 91
p0 60.85 ± 0.04647
64
63
62
61
60
59
58

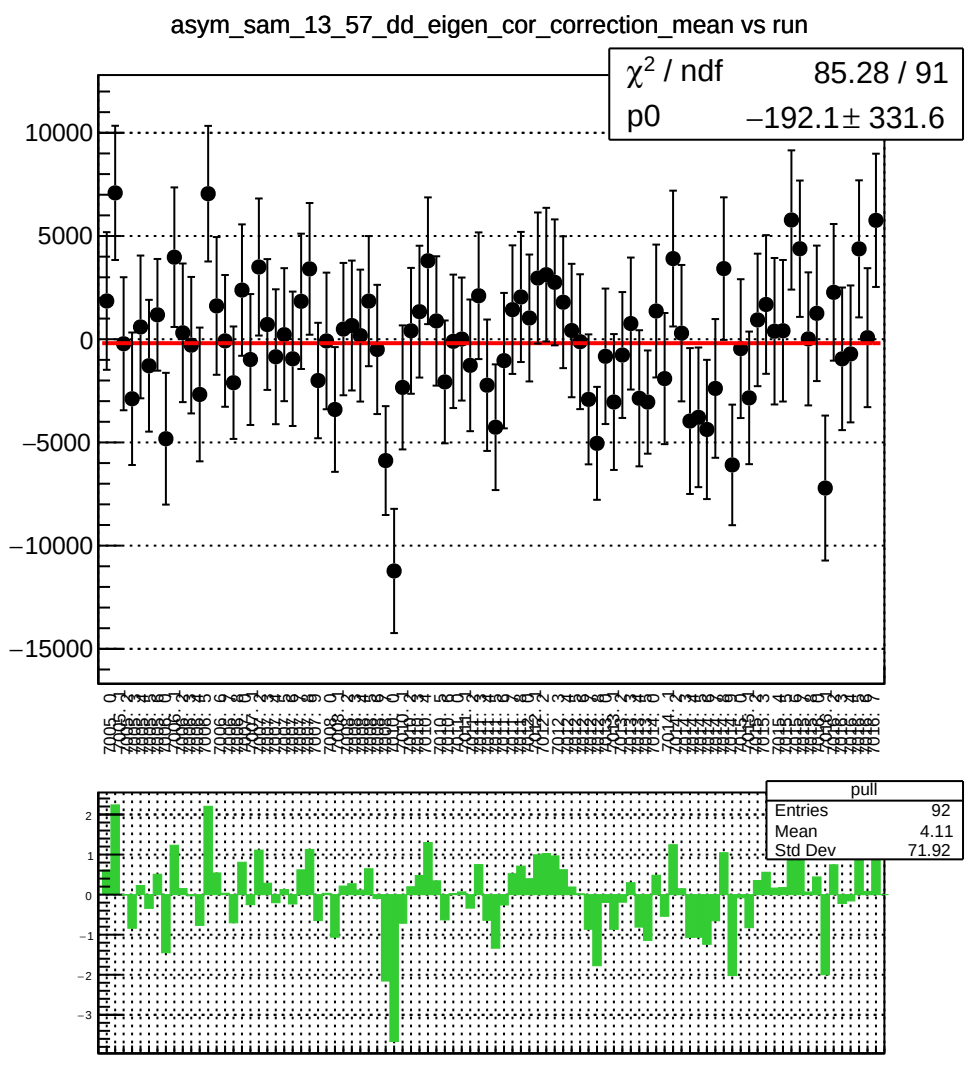

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 85.28 / 91
p0 −192.1± 331.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 4.11
Std Dev 71.92
2
1
0
−1
−2
−3

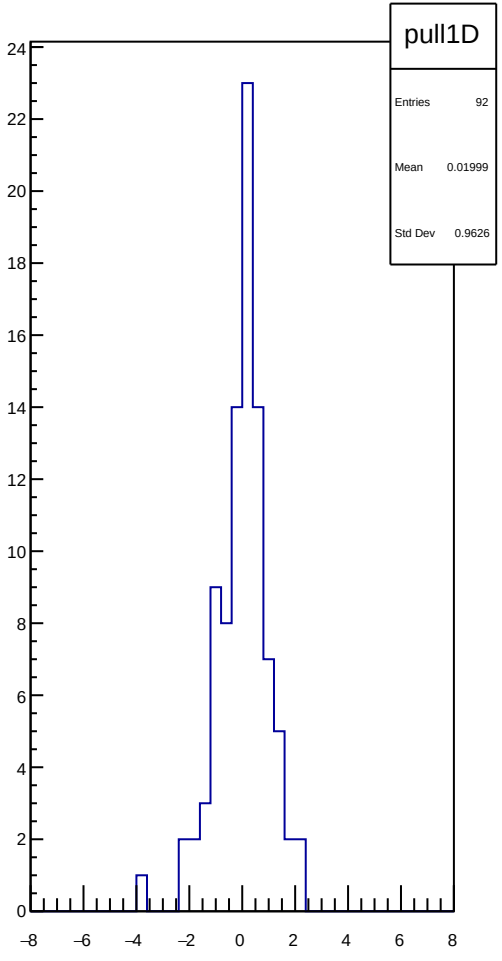

pull1D
Entries 92
Mean 0.01999
Std Dev 0.9626
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

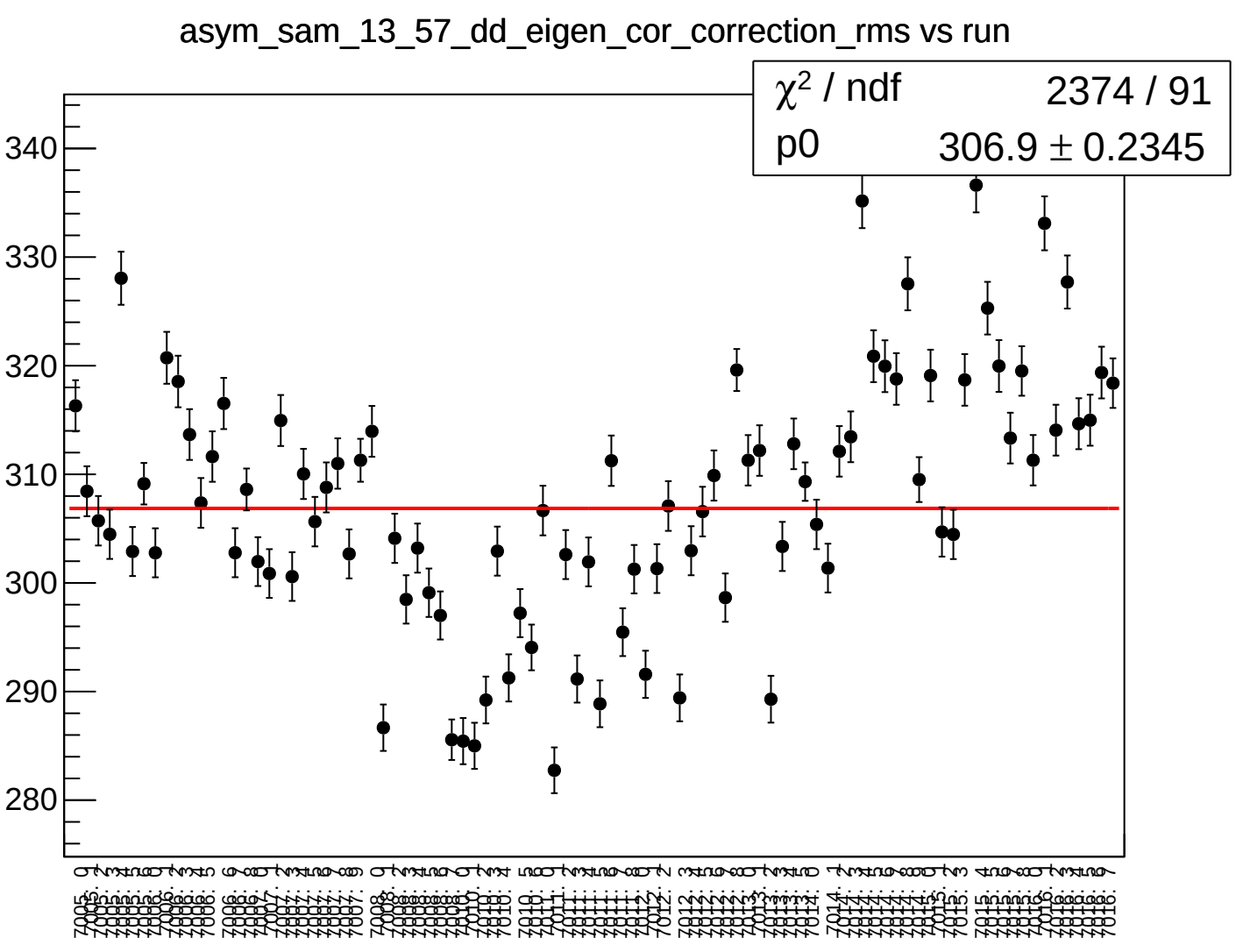

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2374 / 91
p0 306.9 ± 0.2345
340
330
320
310
300
290
280

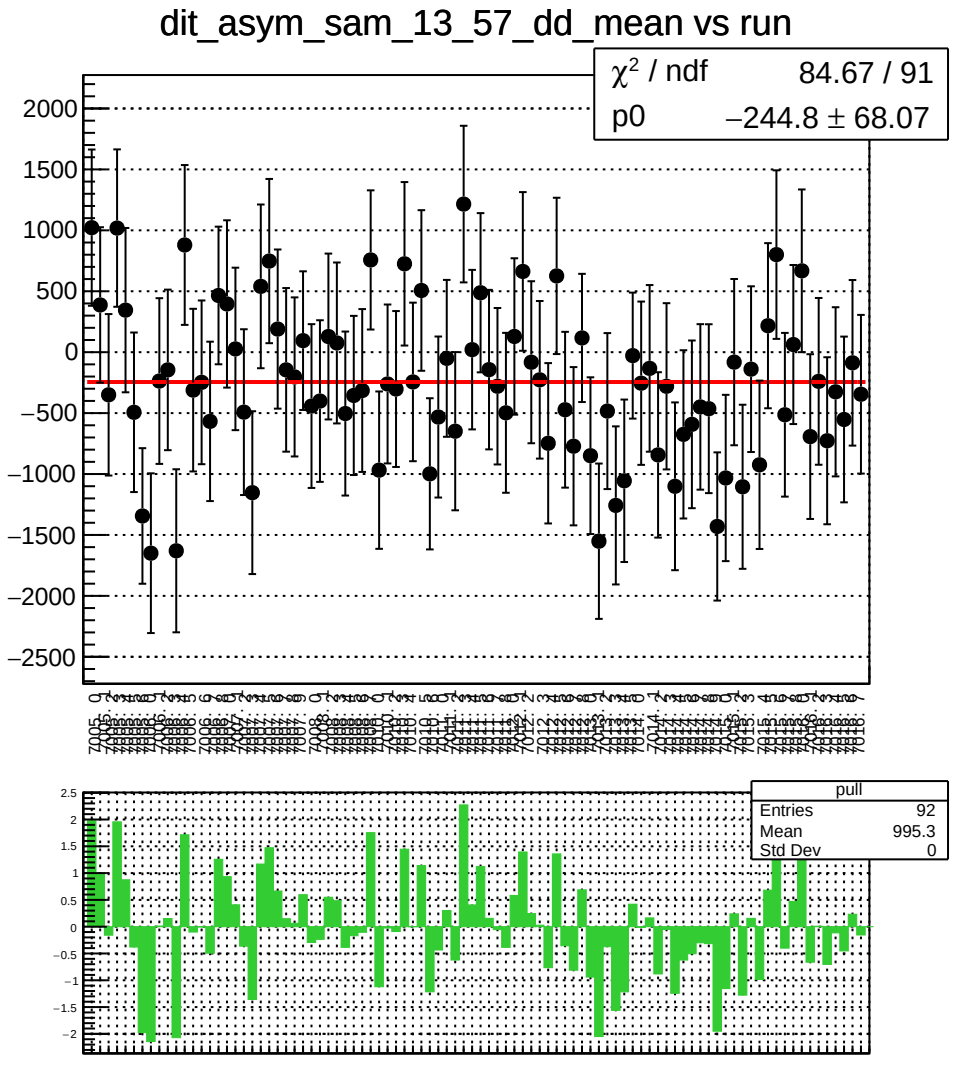

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 81.51 / 91
p0 −248.4 ± 65.72
pull
Entries 92
Mean 895
Std Dev 0
pull1D
Entries 92
Mean −0.00556
Std Dev 0.9412

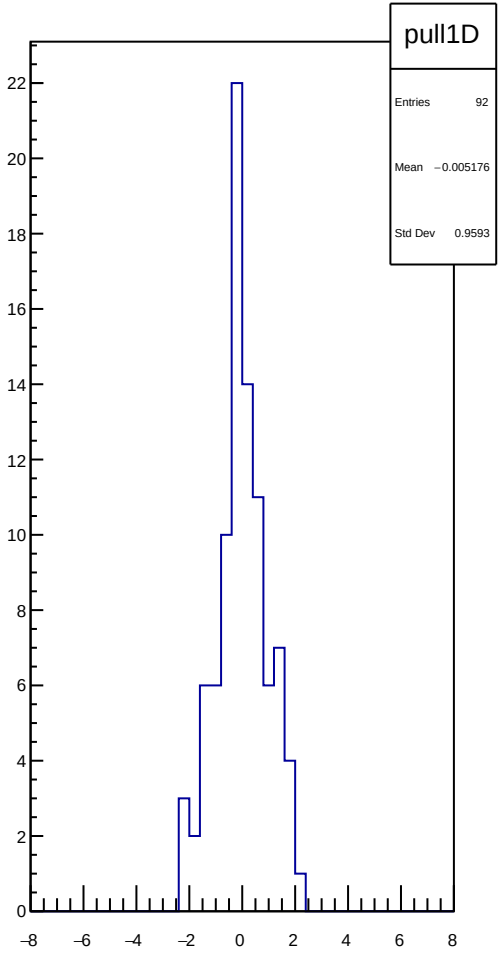

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 832.3 / 91
p0 60.85 ± 0.04647
64
63
62
61
60
59
58

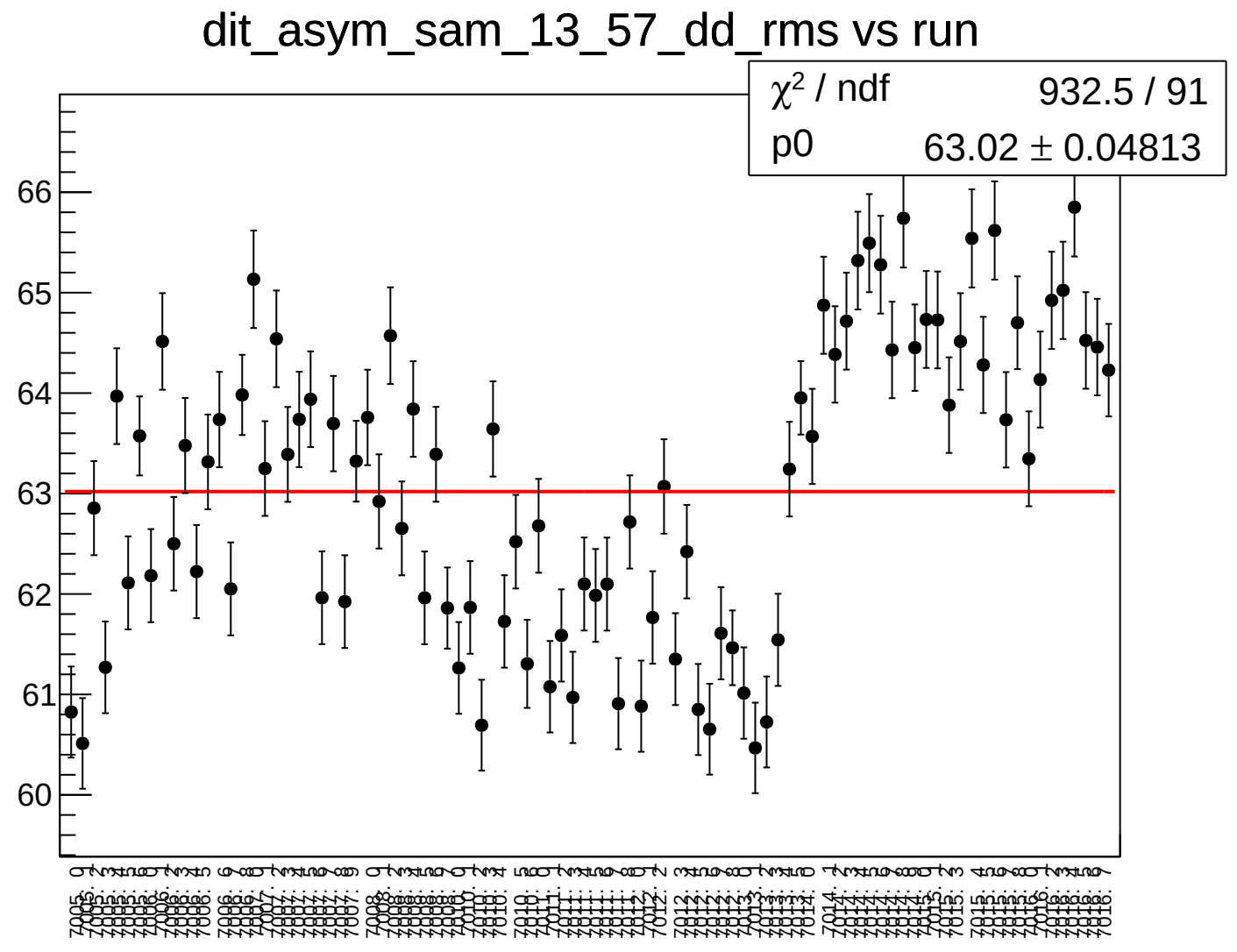

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.28 / 91
p0 −192.1± 331.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 4.11
Std Dev 71.92
2
1
0
−1
−2
−3

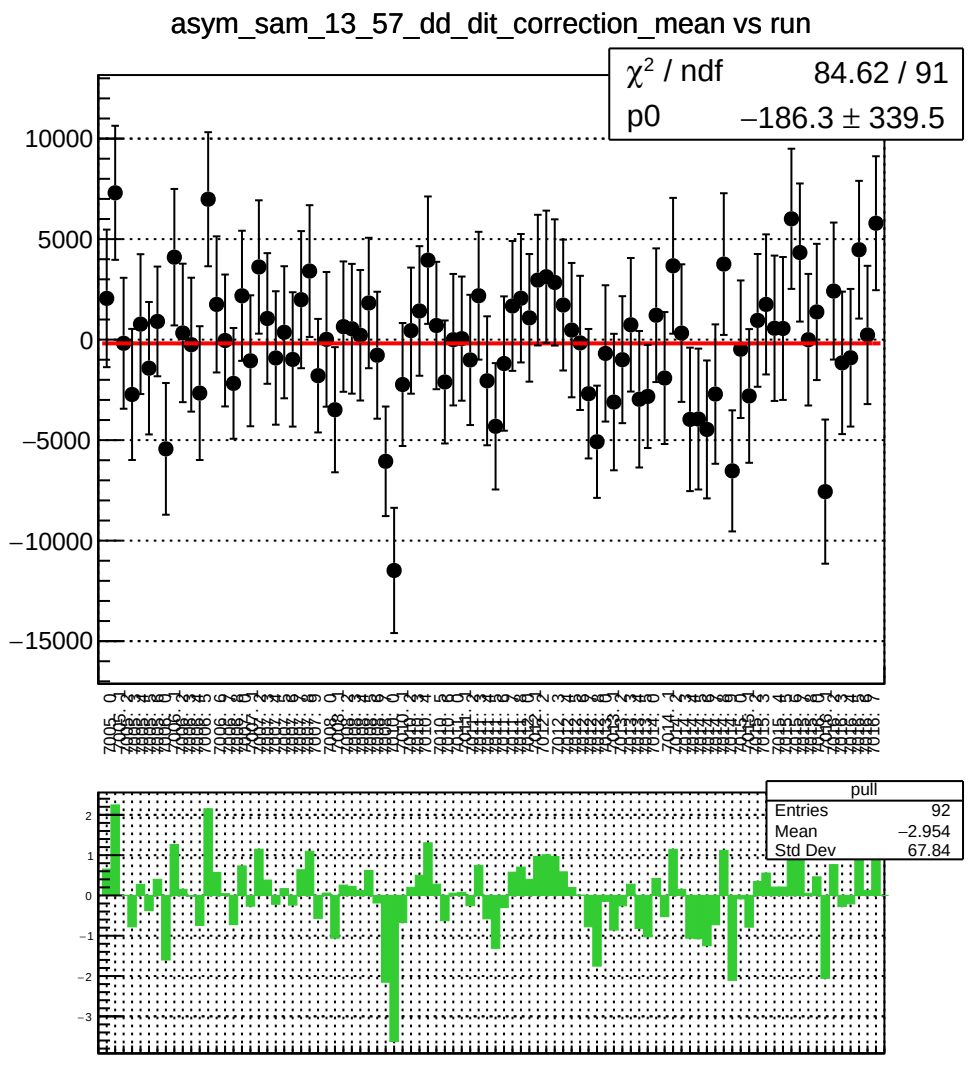

pull1D
Entries 92
Mean 0.01999
Std Dev 0.9626
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

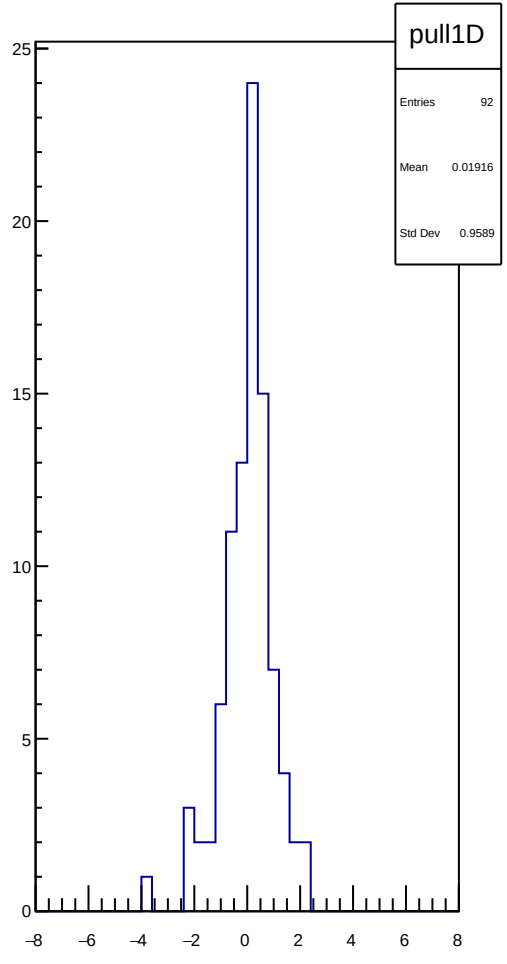

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2374 / 91
p0 306.9 ± 0.2345
340
330
320
310
300
290
280

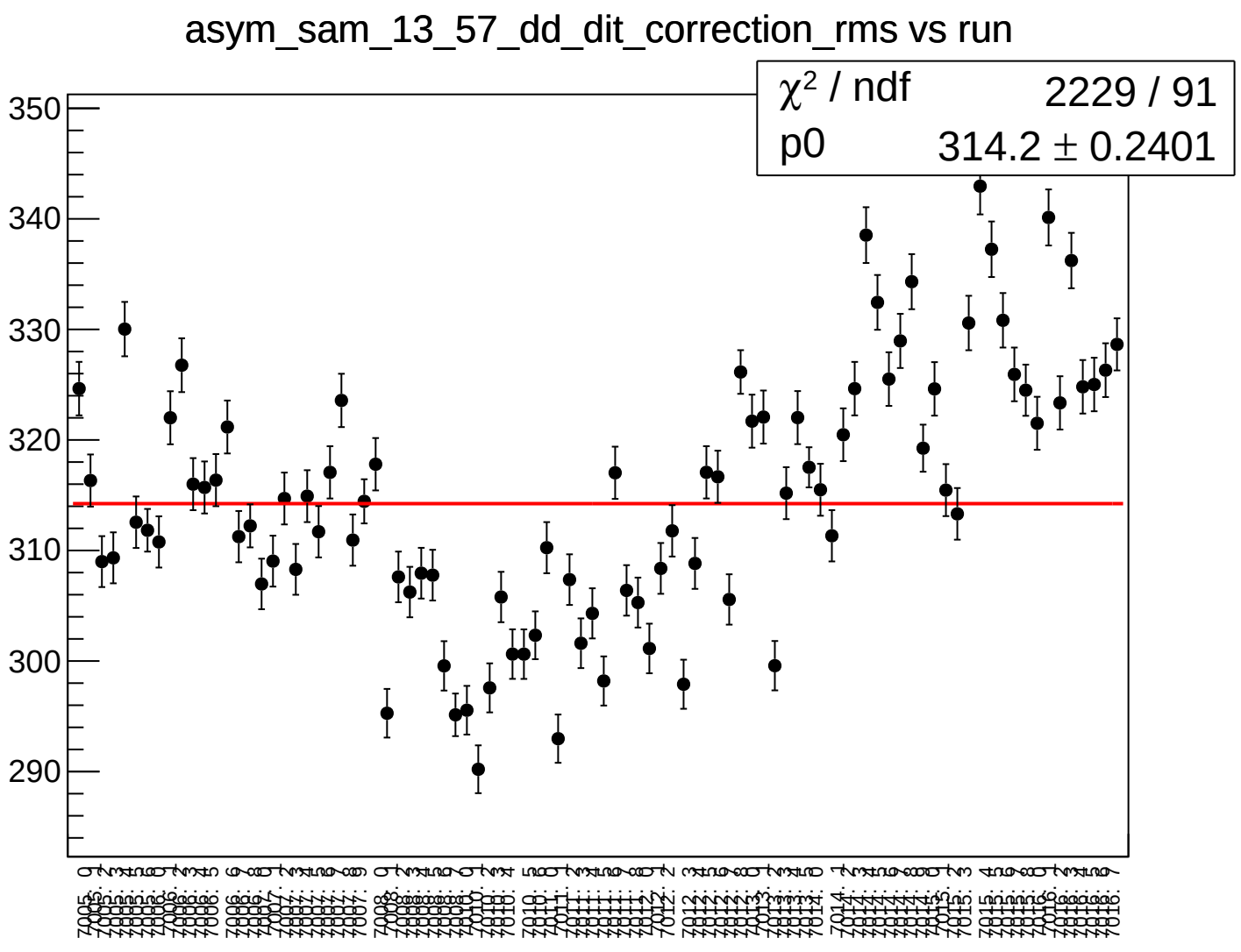

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 84.67 / 91
p0 −244.8 ± 68.07
pull
Entries 92
Mean 995.3
Std Dev 0

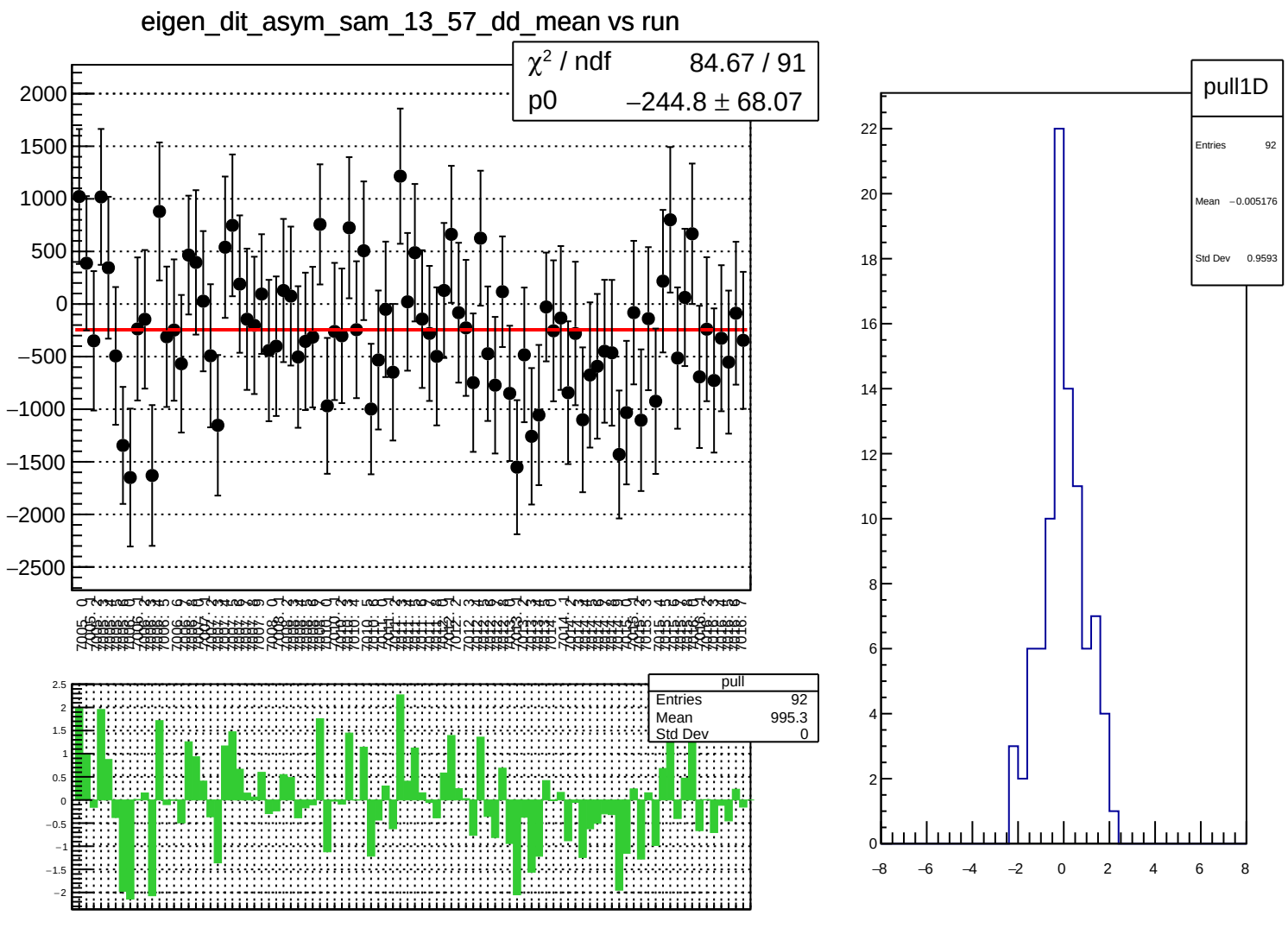

pull1D
Entries 92
Mean −0.005176
Std Dev 0.9593

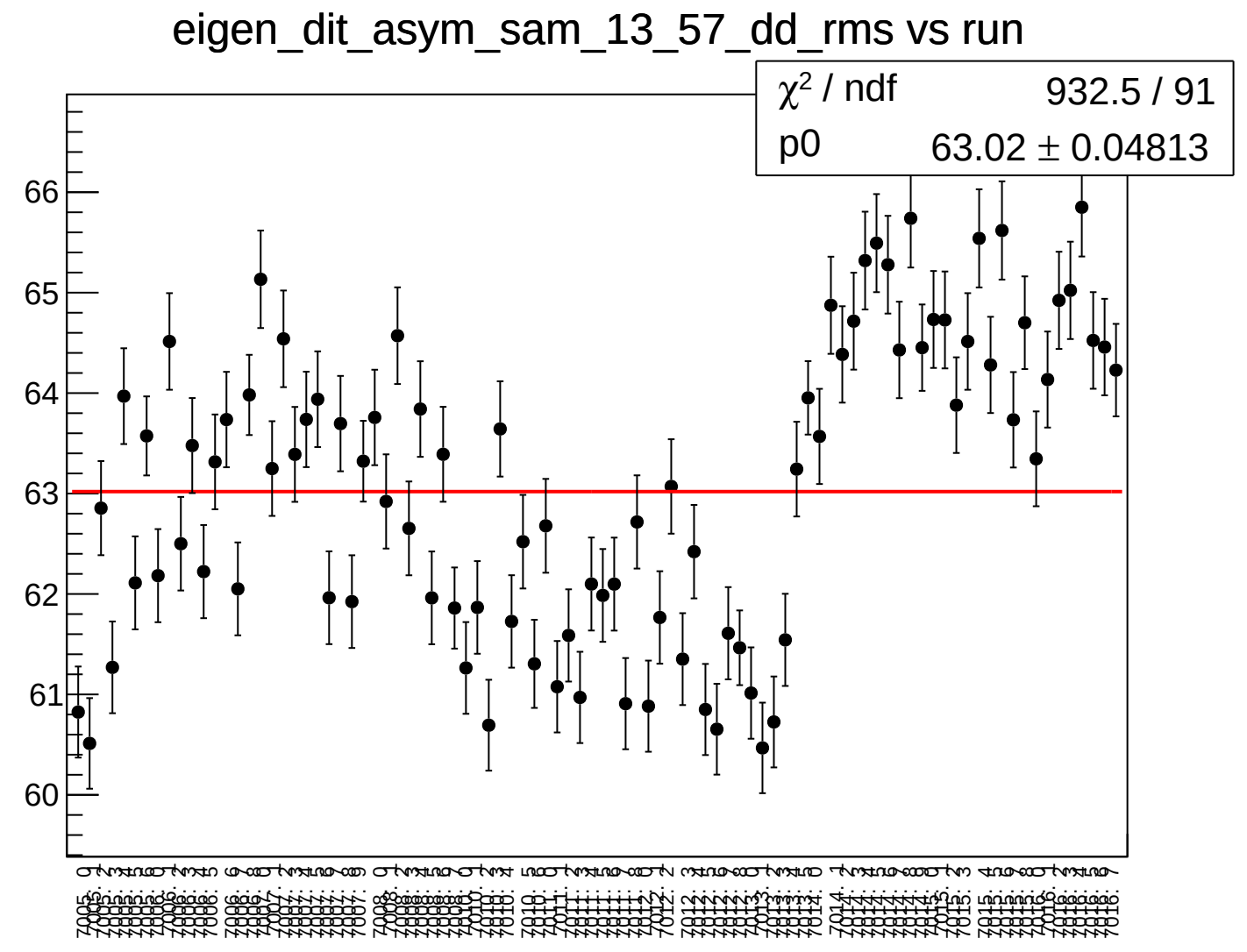

dit_asym_sam_13_57_dd_rms vs run
$\chi^2$ / ndf 932.5 / 91
p0 63.02 ± 0.04813
66
65
64
63
62
61
60

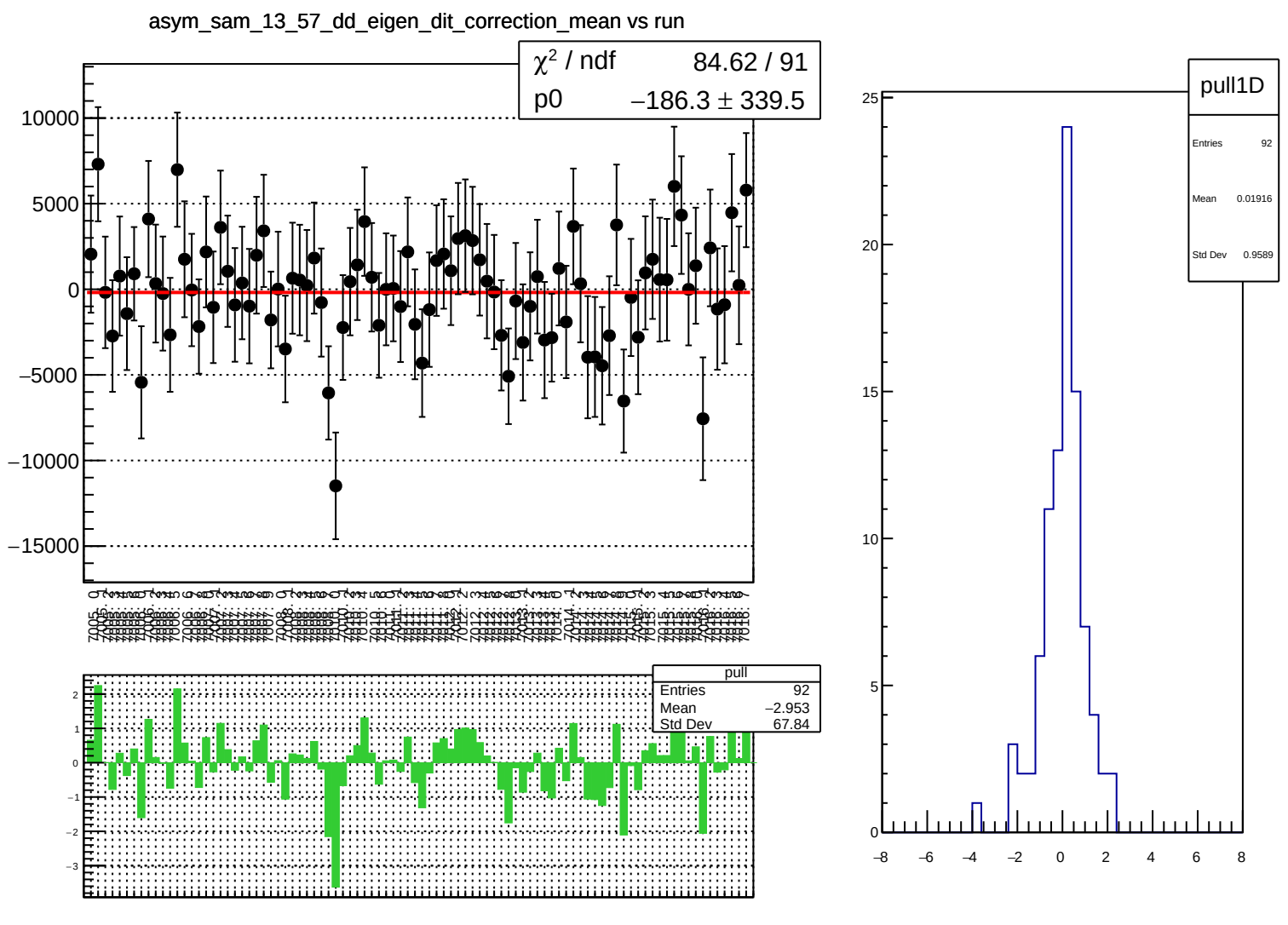

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 84.62 / 91
p0 −186.3 ± 339.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −2.954
Std Dev 67.84
2
1
0
−1
−2
−3

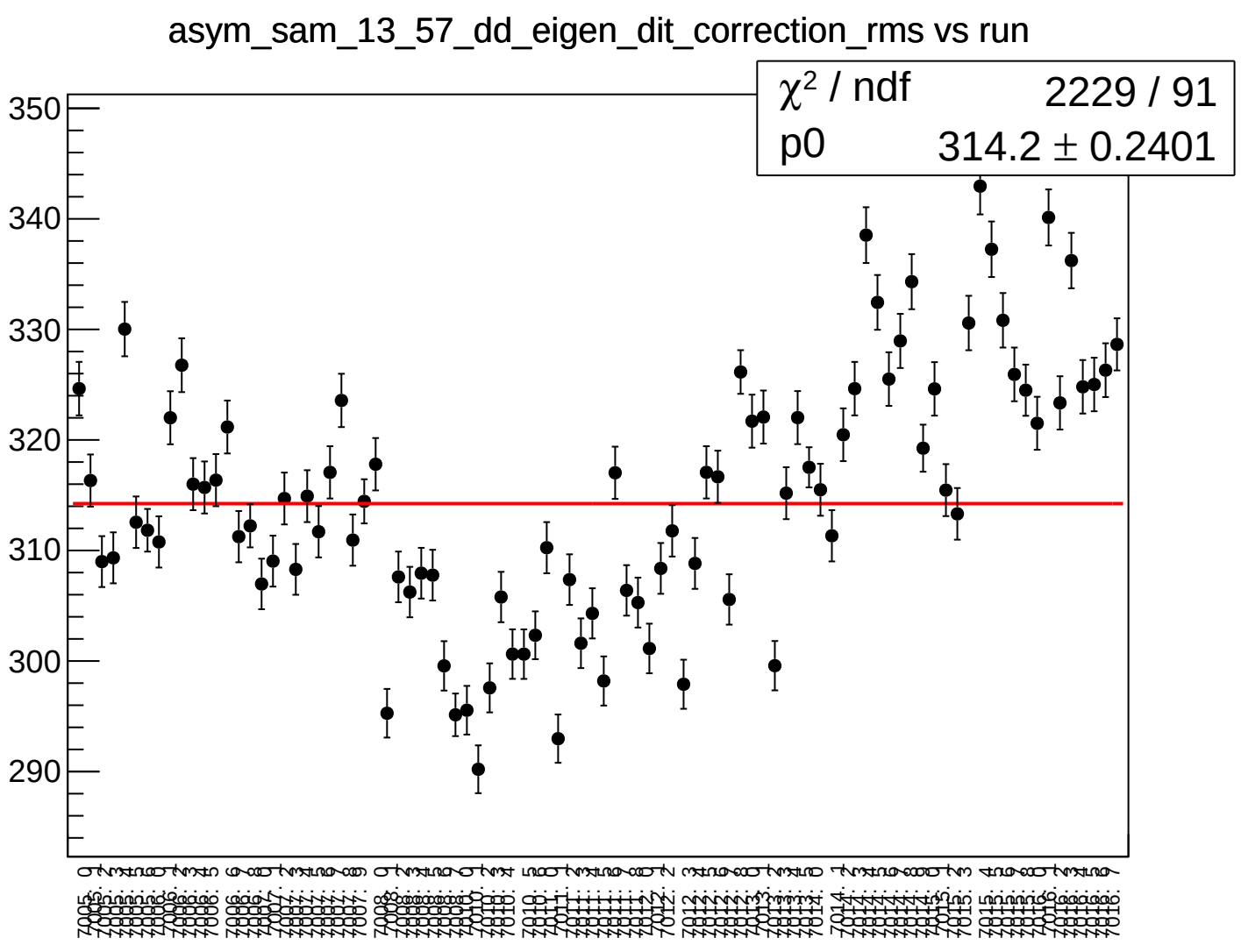

pull1D
Entries 92
Mean 0.01916
Std Dev 0.9589
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

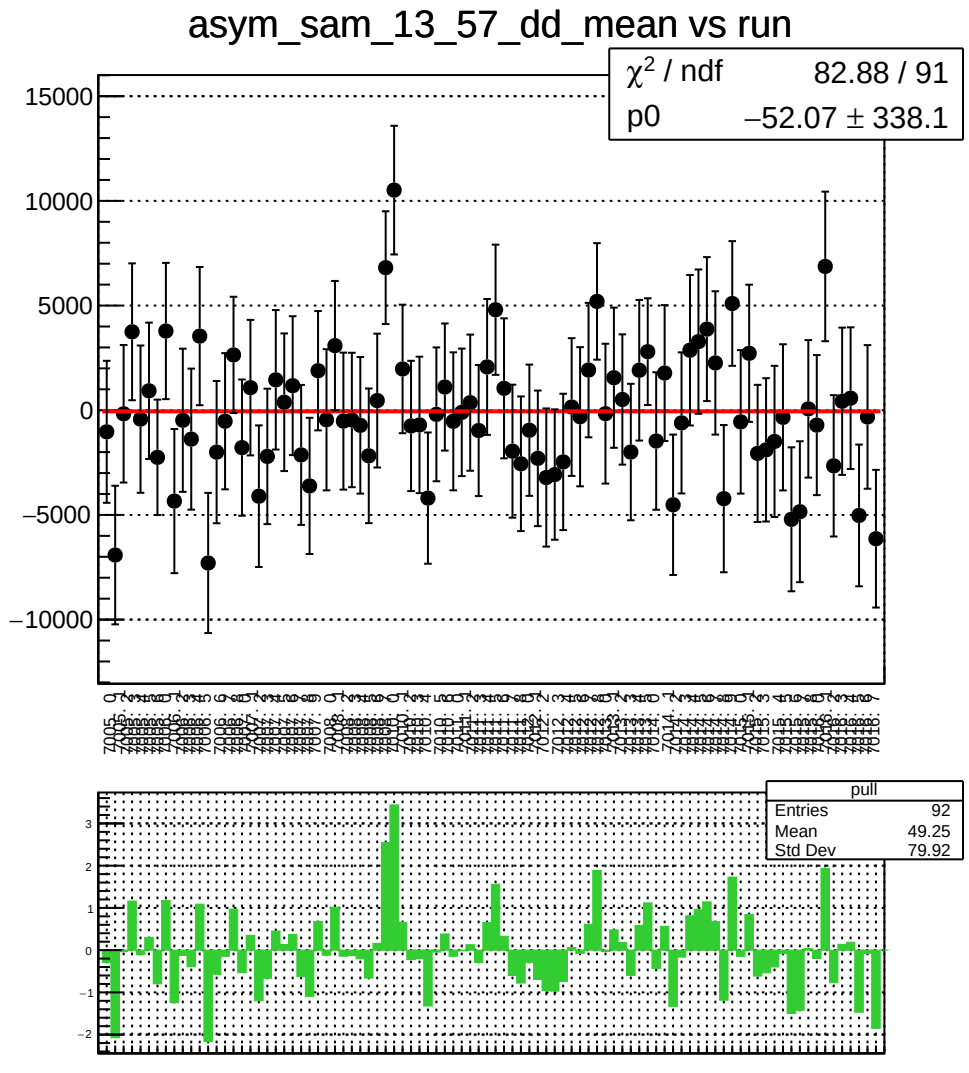

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2229 / 91
p0 314.2 ± 0.2401
350
340
330
320
310
300
290

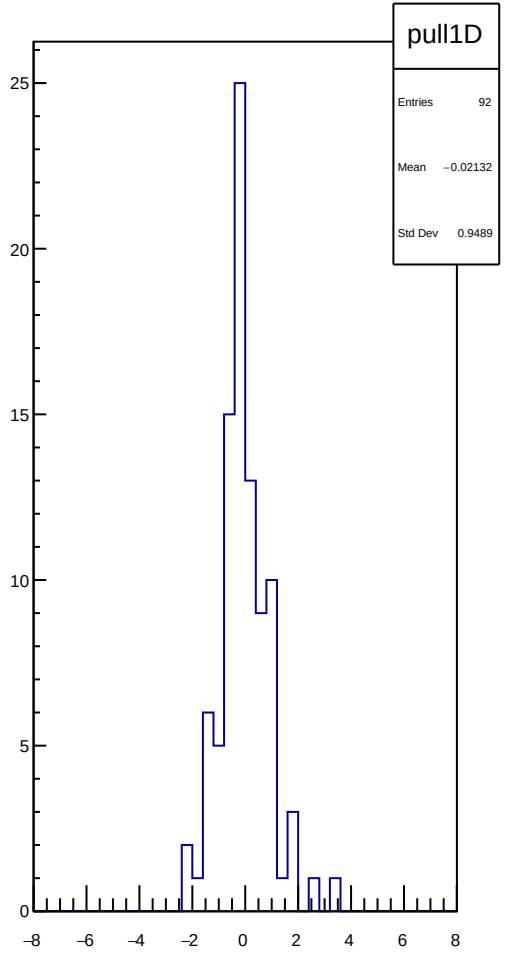

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 84.67 / 91
p0 −244.8 ± 68.07
pull
Entries 92
Mean 995.3
Std Dev 0
pull1D
Entries 92
Mean −0.005176
Std Dev 0.9593

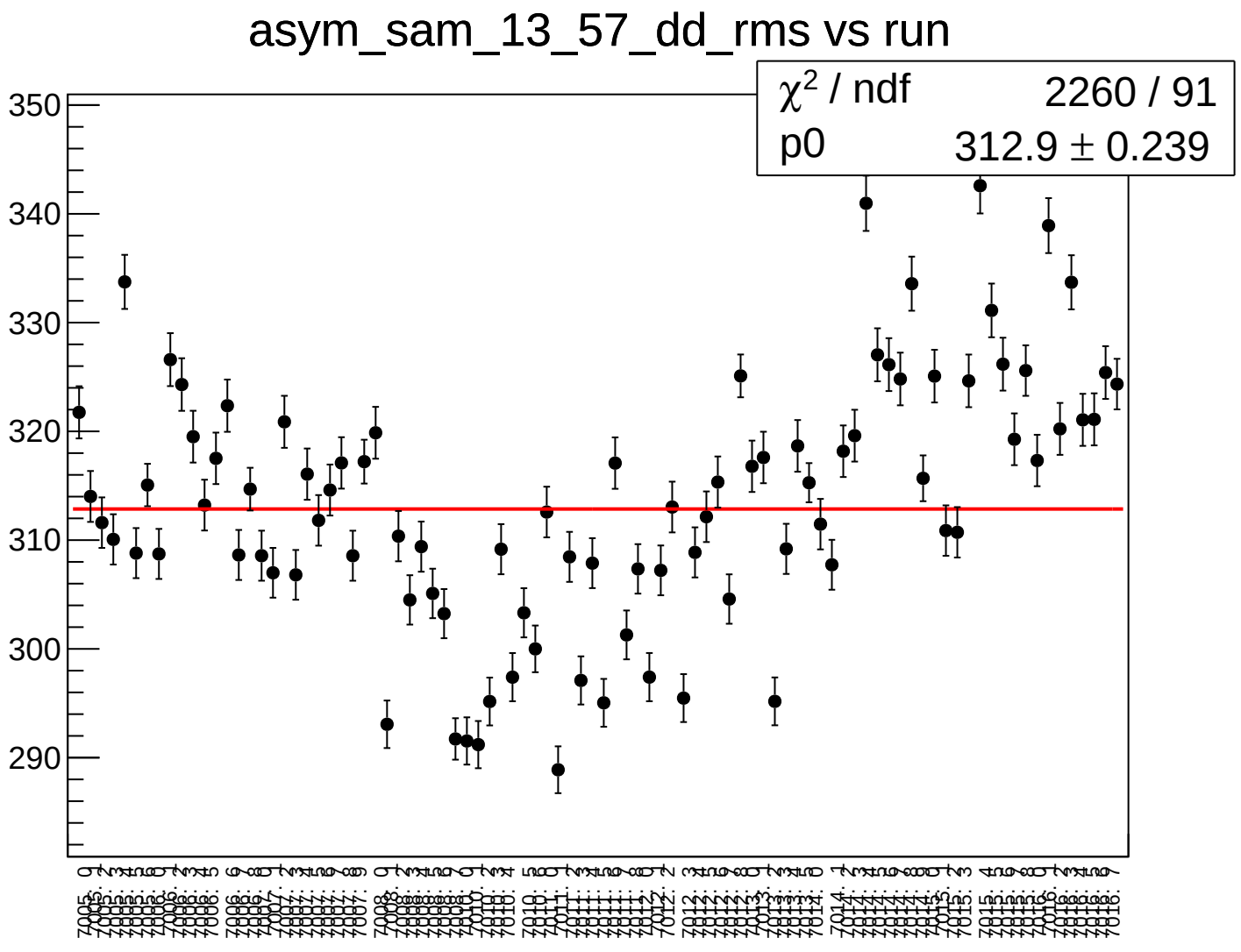

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 932.5 / 91
p0 63.02 ± 0.04813
66
65
64
63
62
61
60

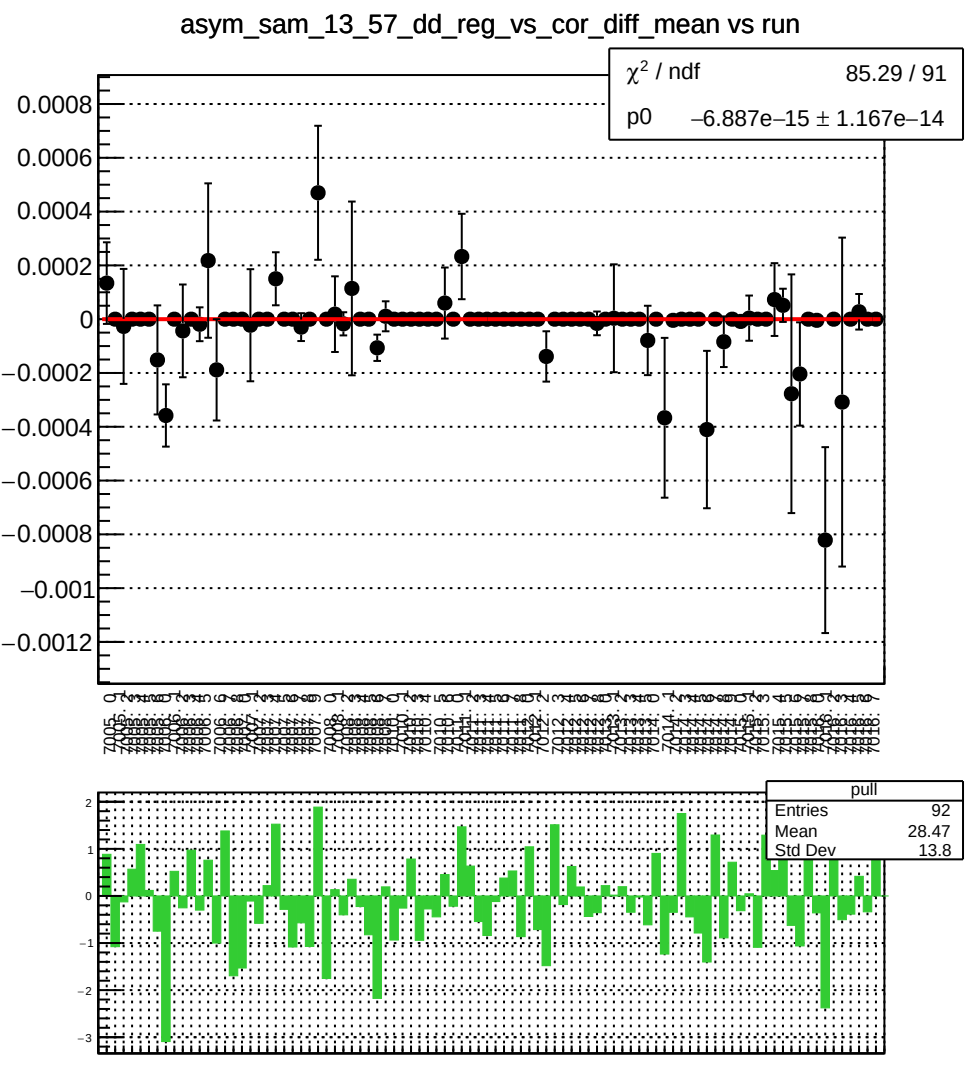

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.62 / 91
p0 −186.3 ± 339.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −2.953
Std Dev 67.84
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01916
Std Dev 0.9589
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

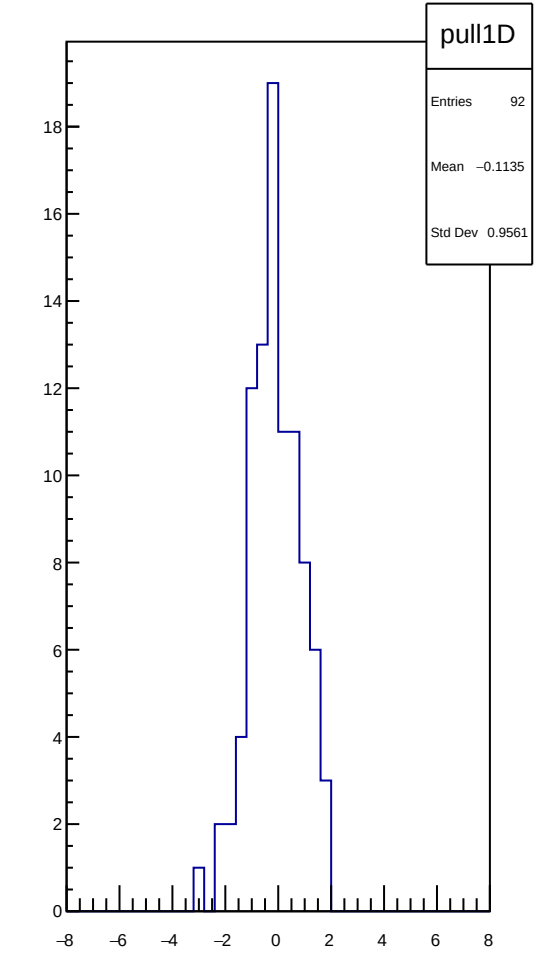

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2229 / 91
p0 314.2 ± 0.2401
350
340
330
320
310
300
290

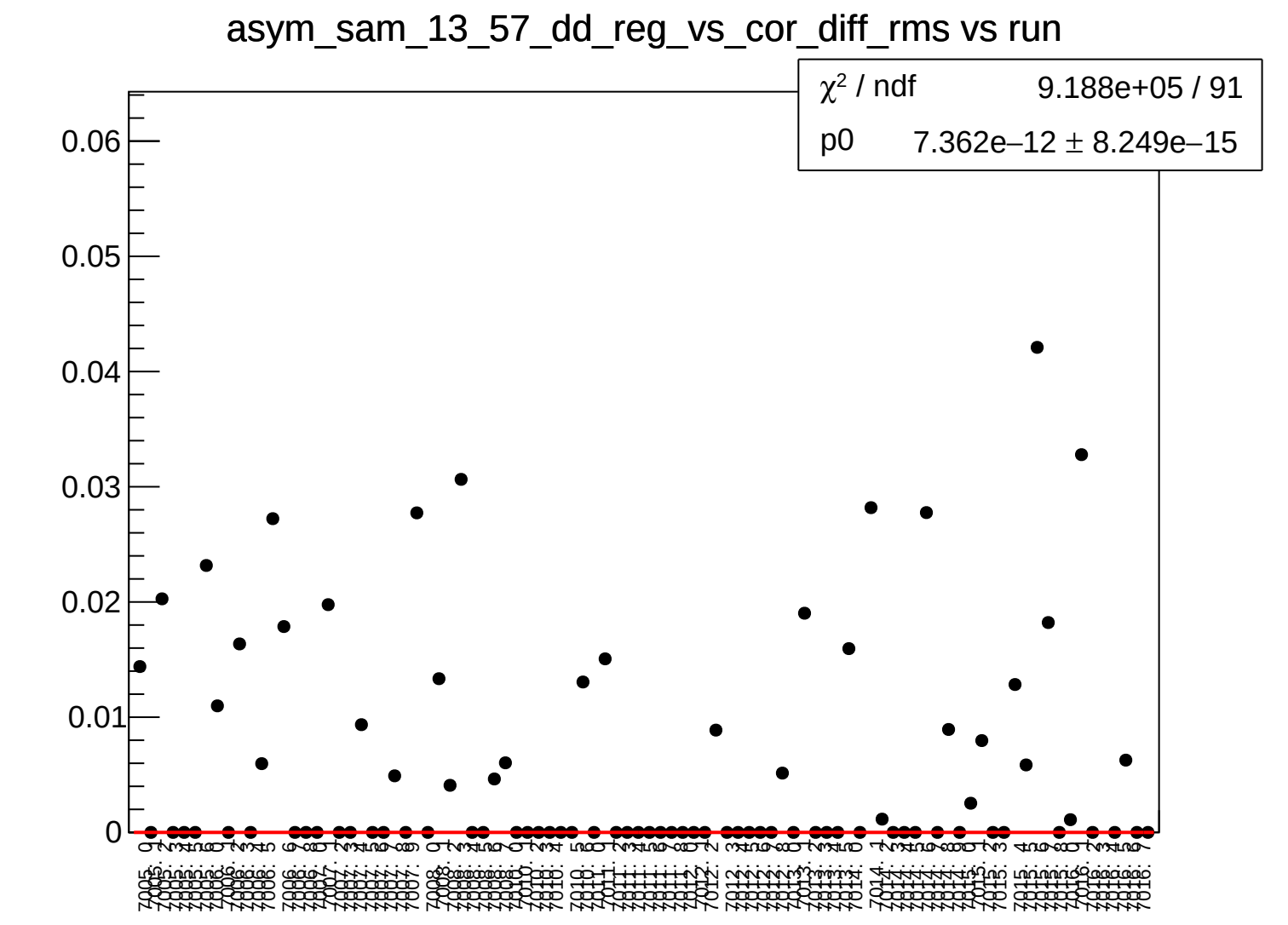

asym_sam_13_57_dd_mean vs run
χ² / ndf 82.88 / 91
p0 −52.07 ± 338.1
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 49.25
Std Dev 79.92
3
2
1
0
−1
−2

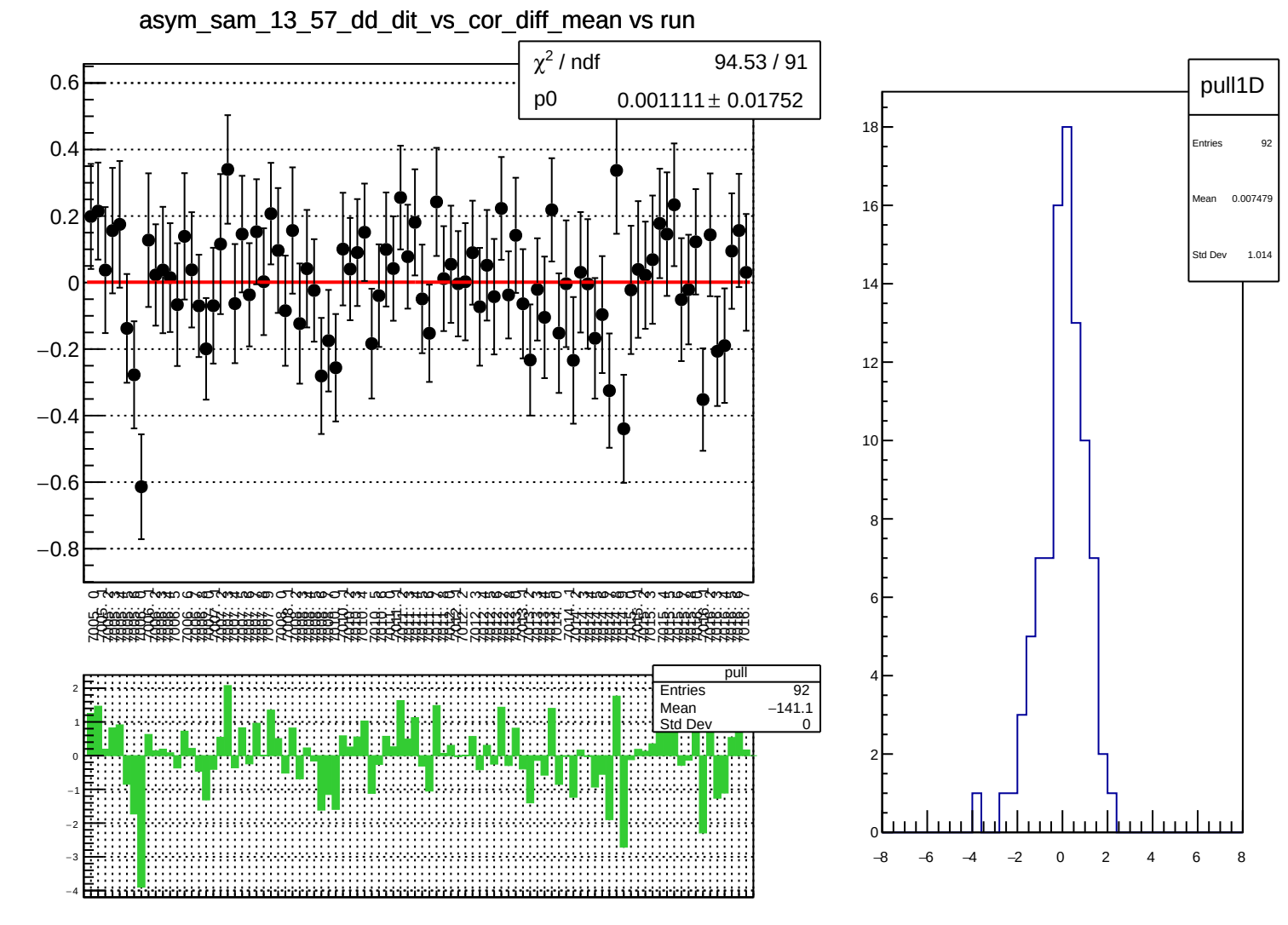

pull1D
Entries 92
Mean −0.02132
Std Dev 0.9489
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

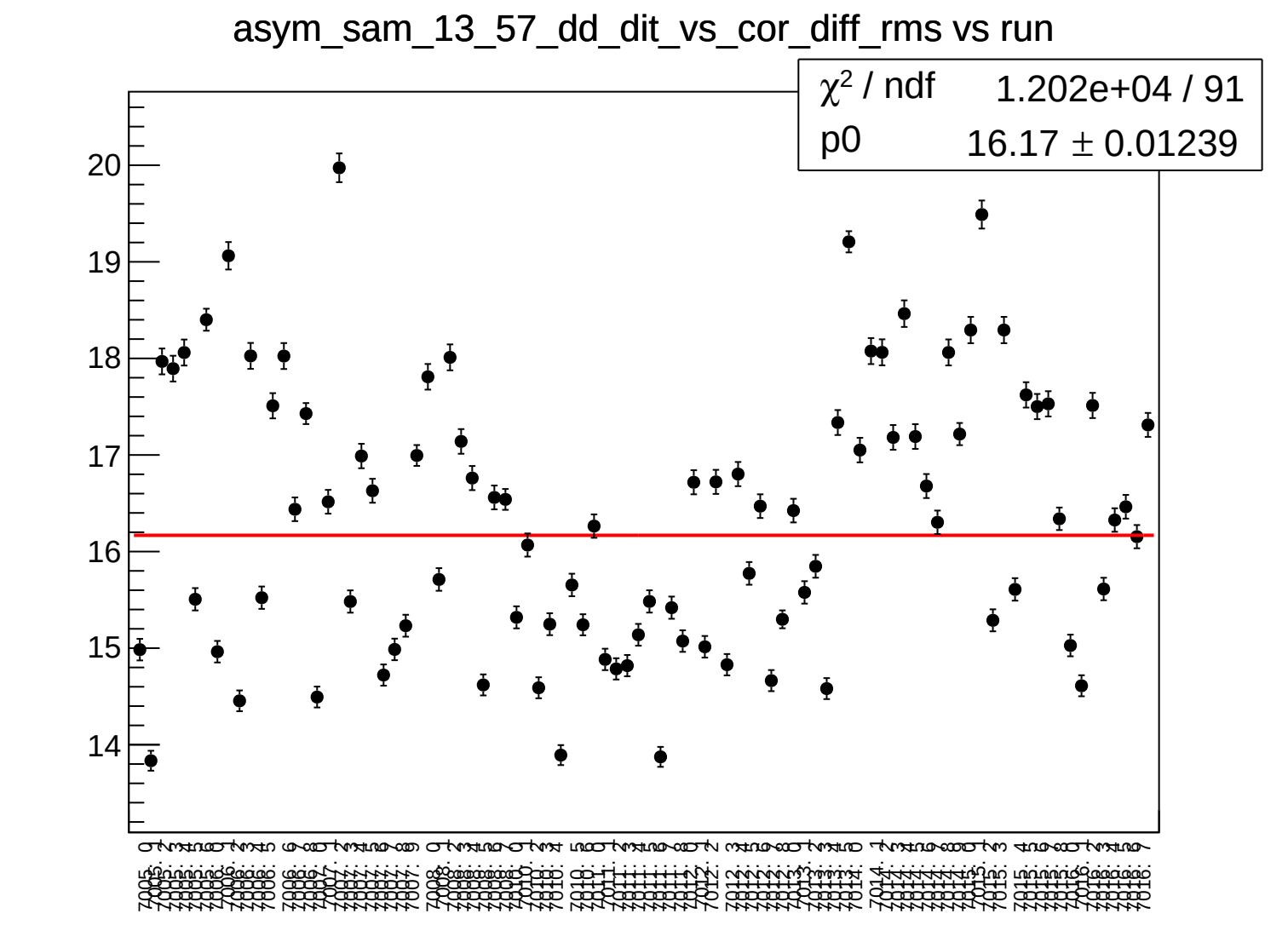

asym_sam_13_57_dd_rms vs run
χ² / ndf 2260 / 91
p0 312.9 ± 0.239
350
340
330
320
310
300
290

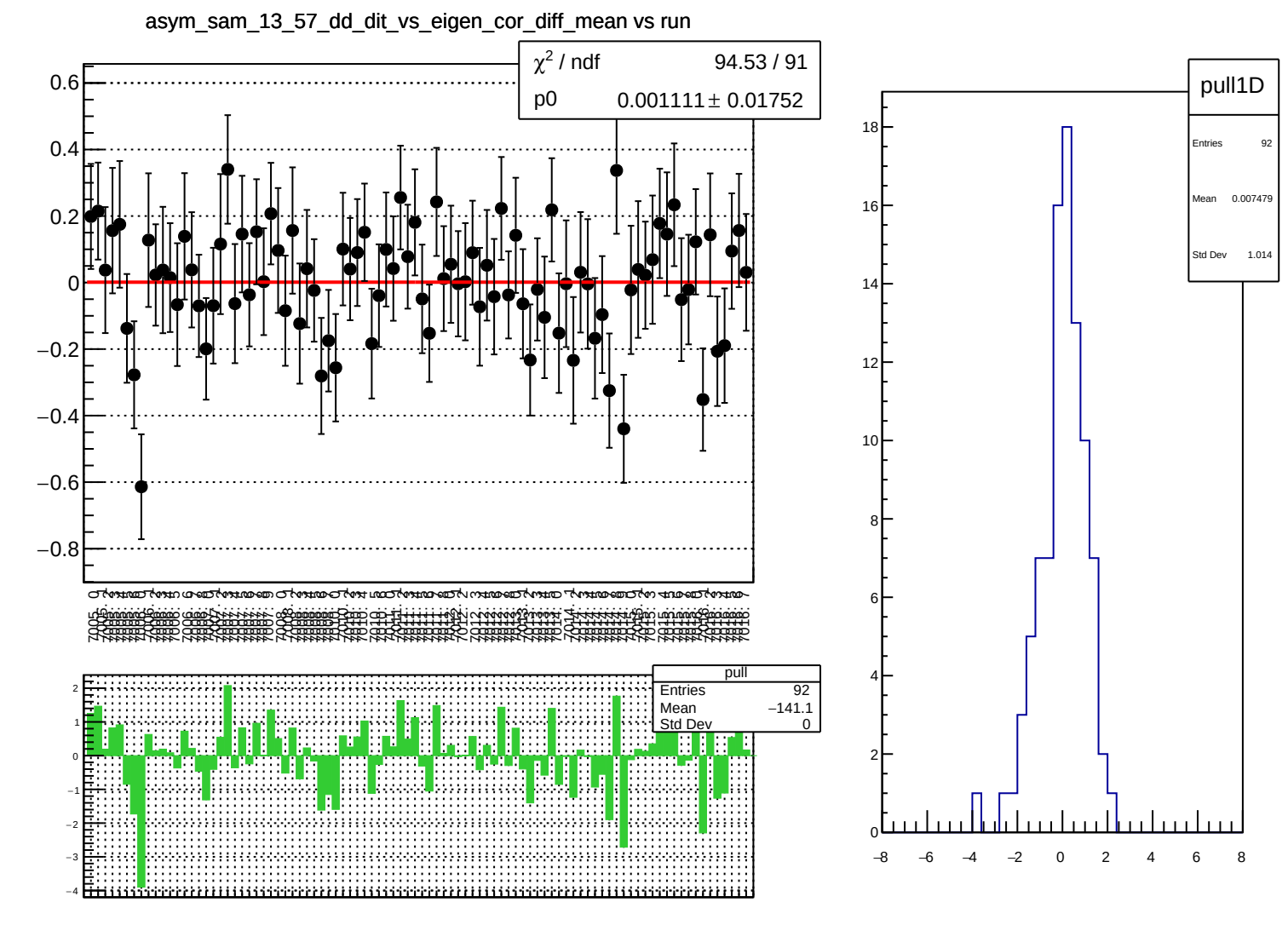

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.29 / 91
p0 −6.887e−15 ± 1.167e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 92
Mean 28.47
Std Dev 13.8
2
1
0
−1
−2
−3

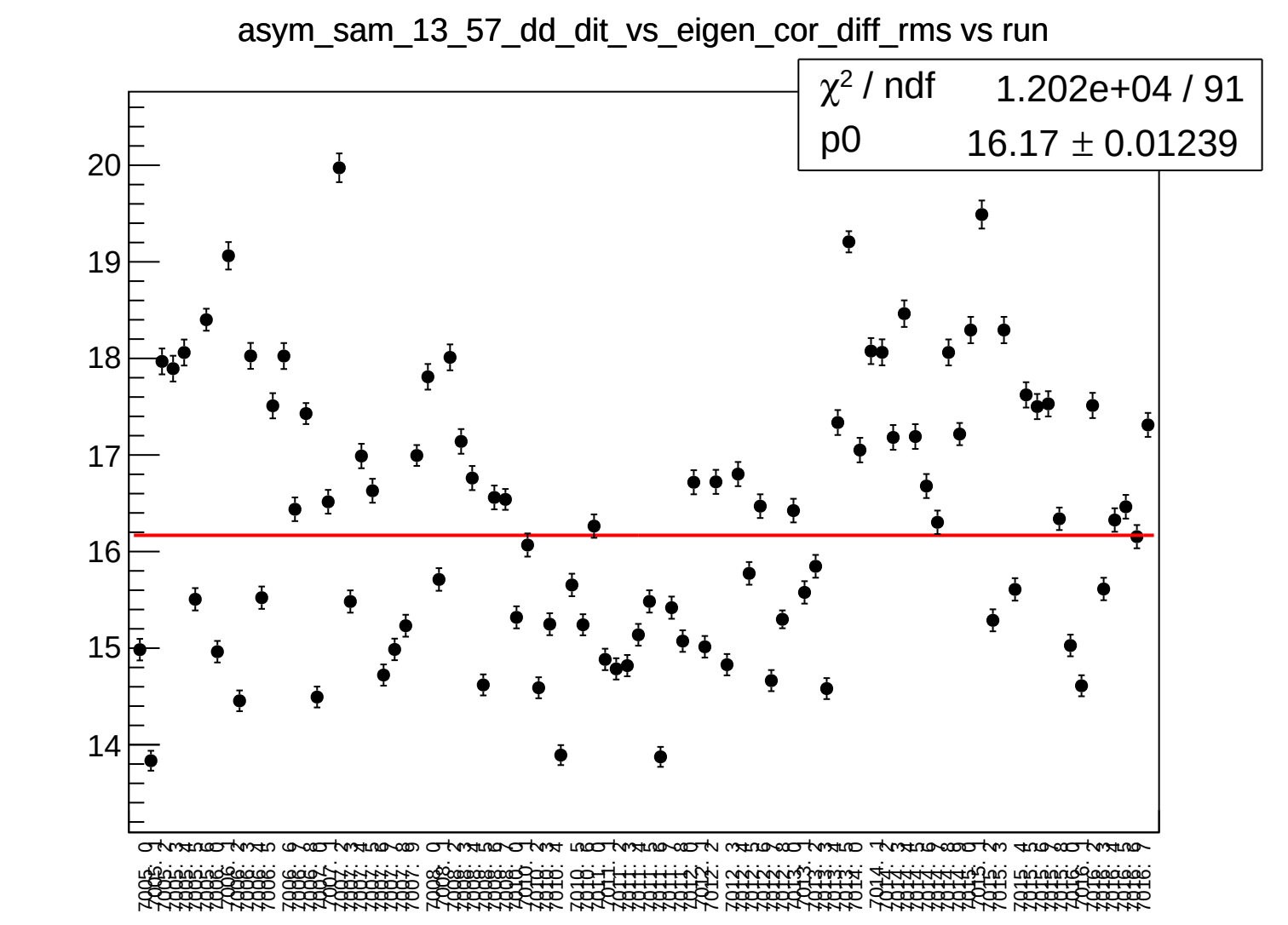

pull1D
Entries 92
Mean −0.1135
Std Dev 0.9561
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

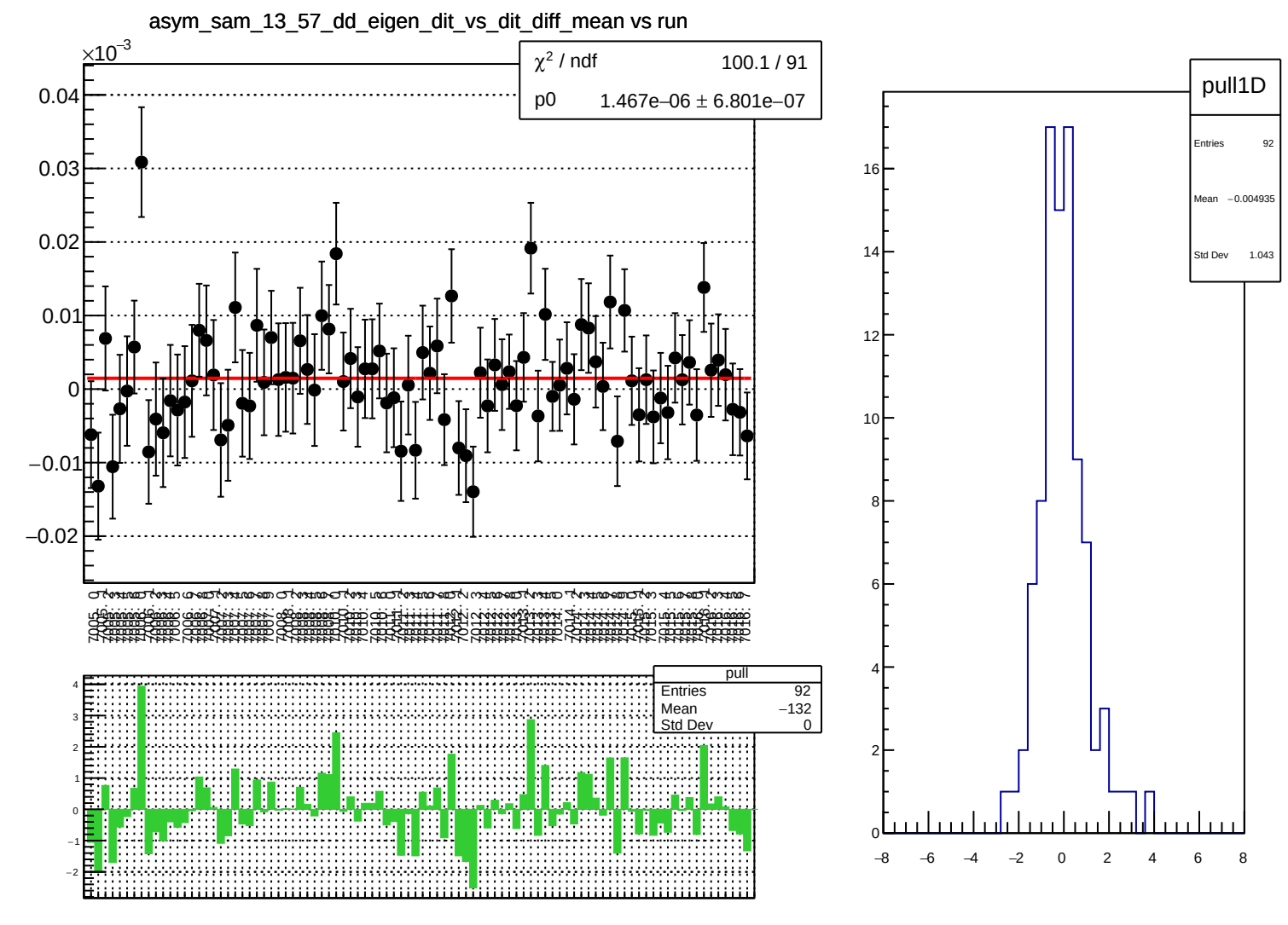

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.188e+05 / 91
p0 7.362e−12 ± 8.249e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

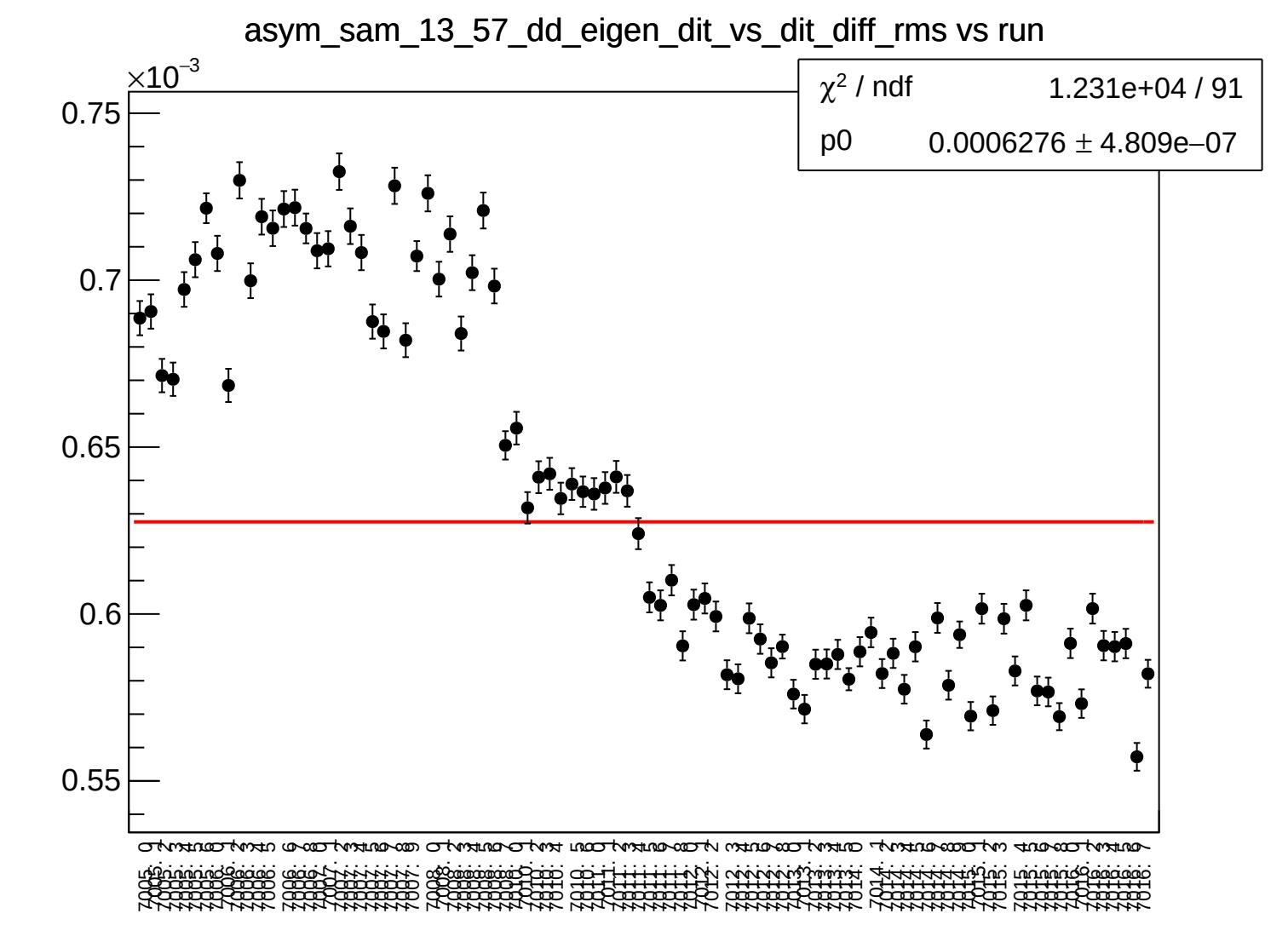

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.53 / 91
p0 0.001111 ± 0.01752
pull
Entries 92
Mean −141.1
Std Dev 0
pull1D
Entries 92
Mean 0.007479
Std Dev 1.014

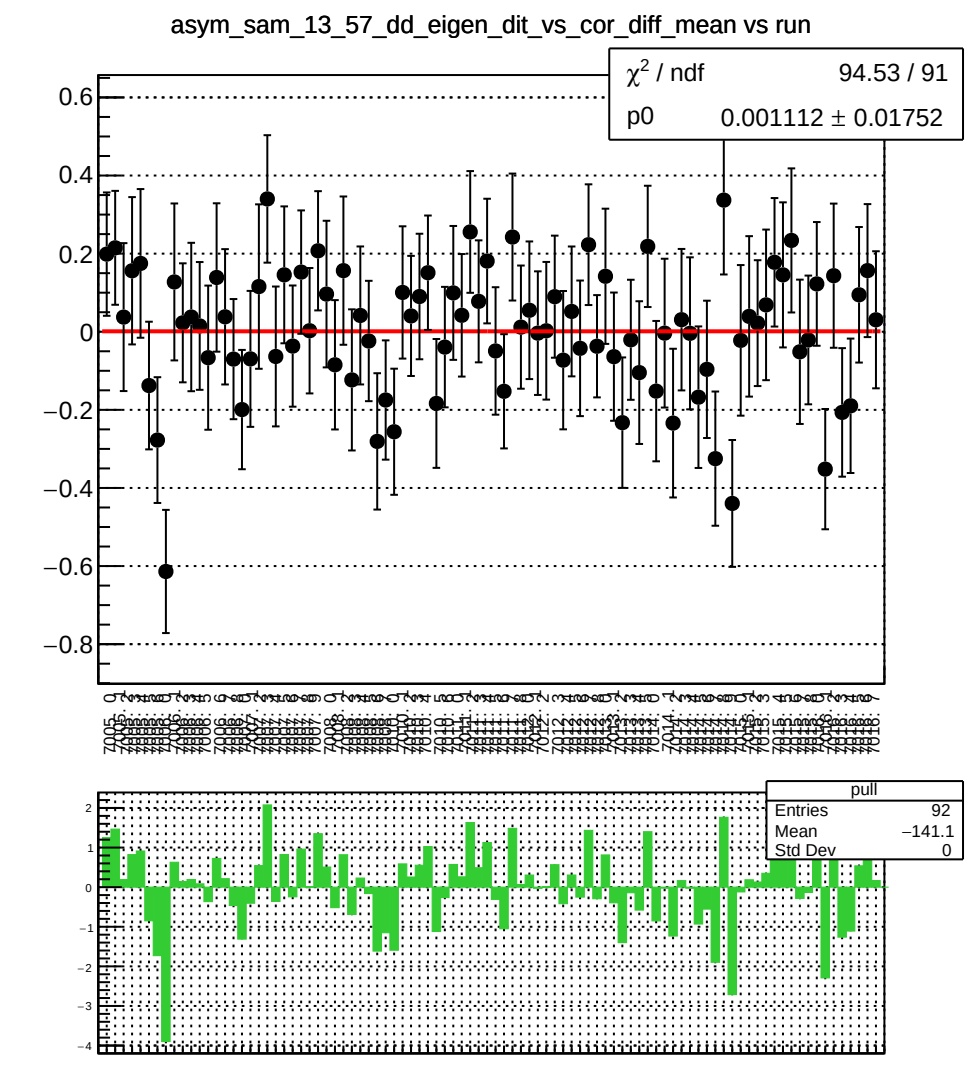

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.202e+04 / 91
p0 16.17 ± 0.01239
20
19
18
17
16
15
14

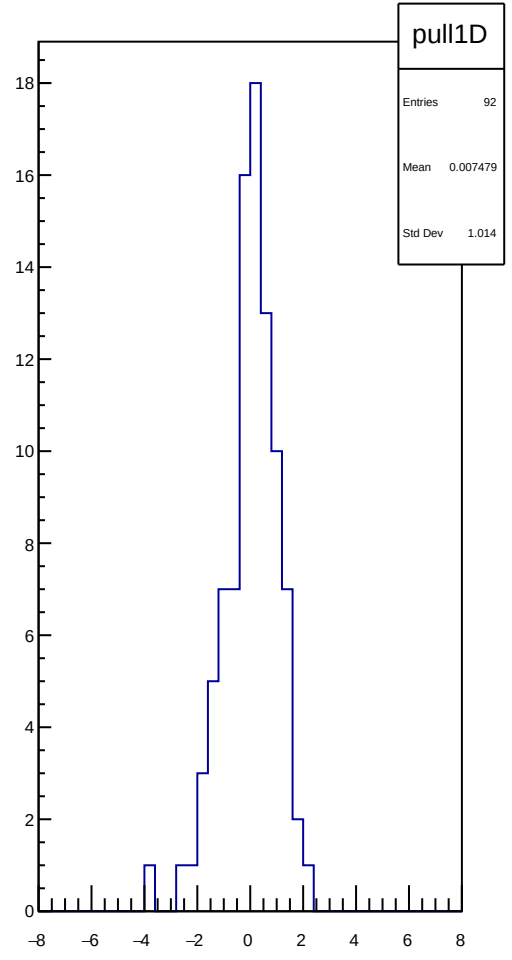

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.53 / 91
p0 0.001111 ± 0.01752
pull
Entries 92
Mean −141.1
Std Dev 0
pull1D
Entries 92
Mean 0.007479
Std Dev 1.014

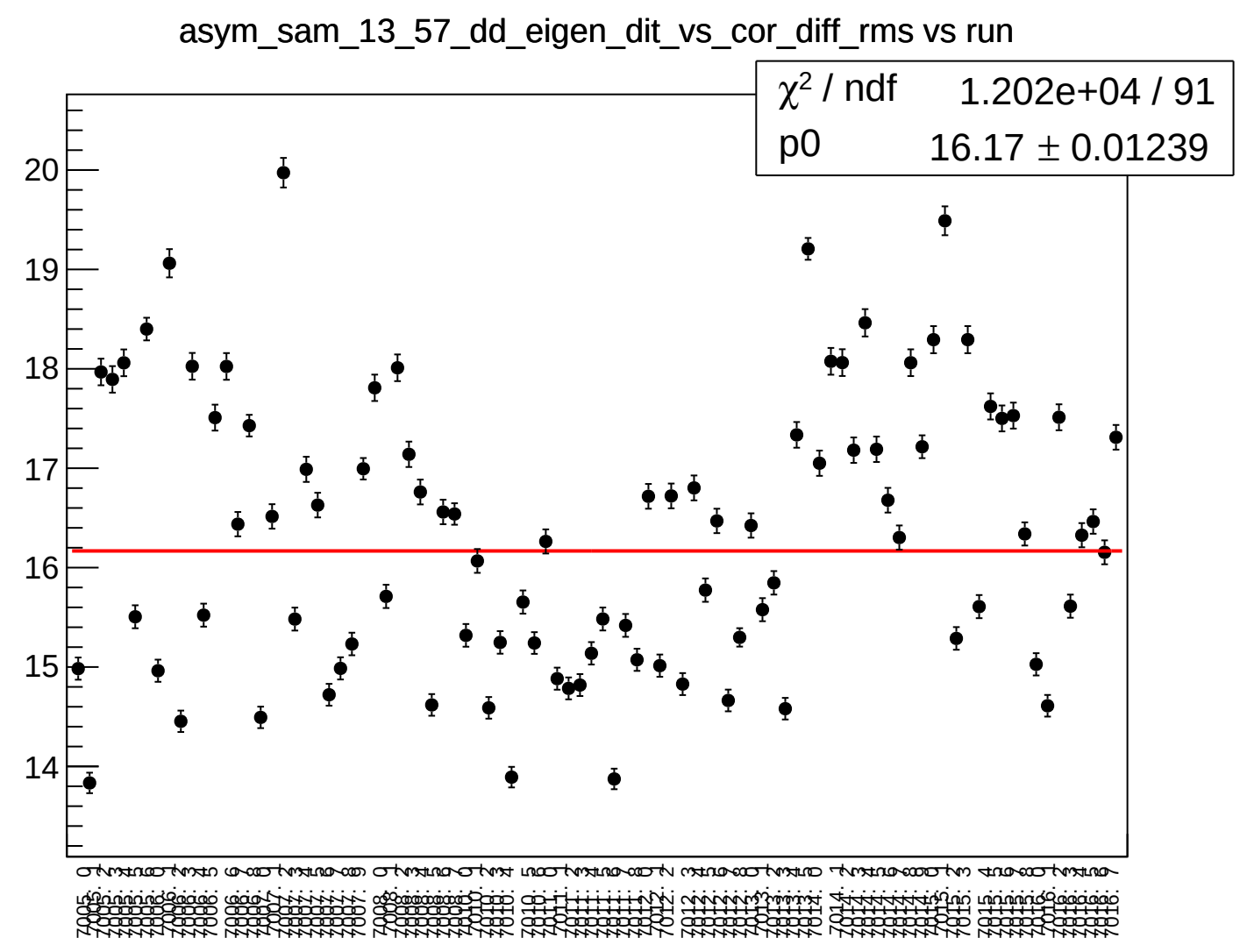

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.202e+04 / 91
p0 16.17 ± 0.01239
20
19
18
17
16
15
14

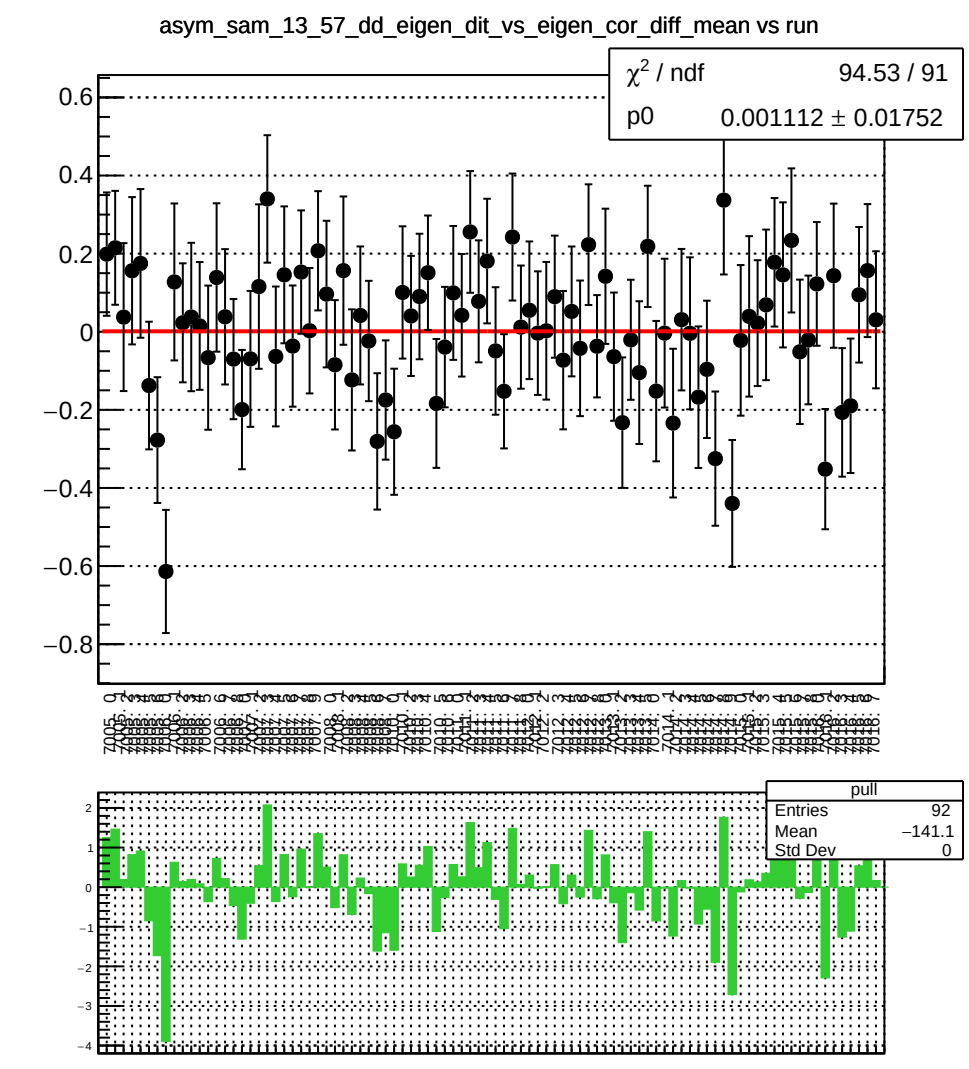

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.1 / 91
p0 1.467e−06 ± 6.801e−07
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 92
Mean −132
Std Dev 0
pull1D
Entries 92
Mean −0.004935
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

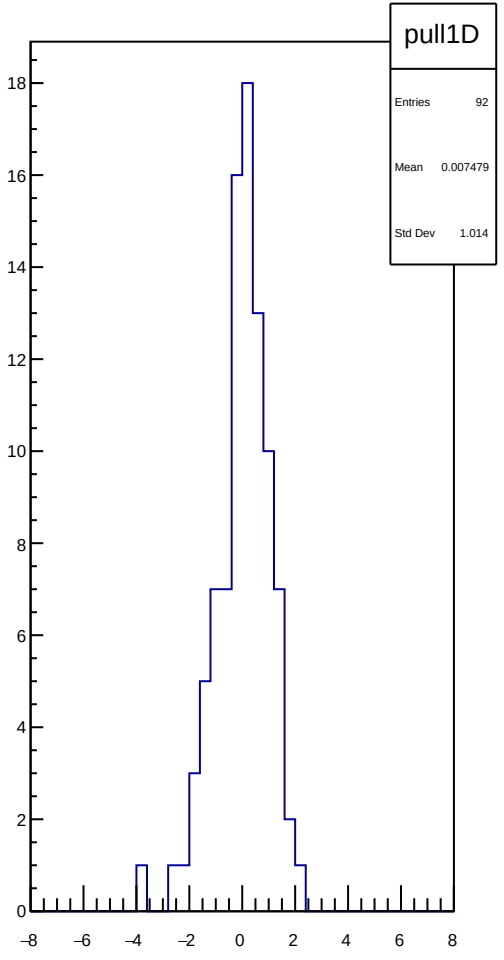

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.231e+04 / 91
p0 0.0006276 ± 4.809e−07
0.75
0.7
0.65
0.6
0.55

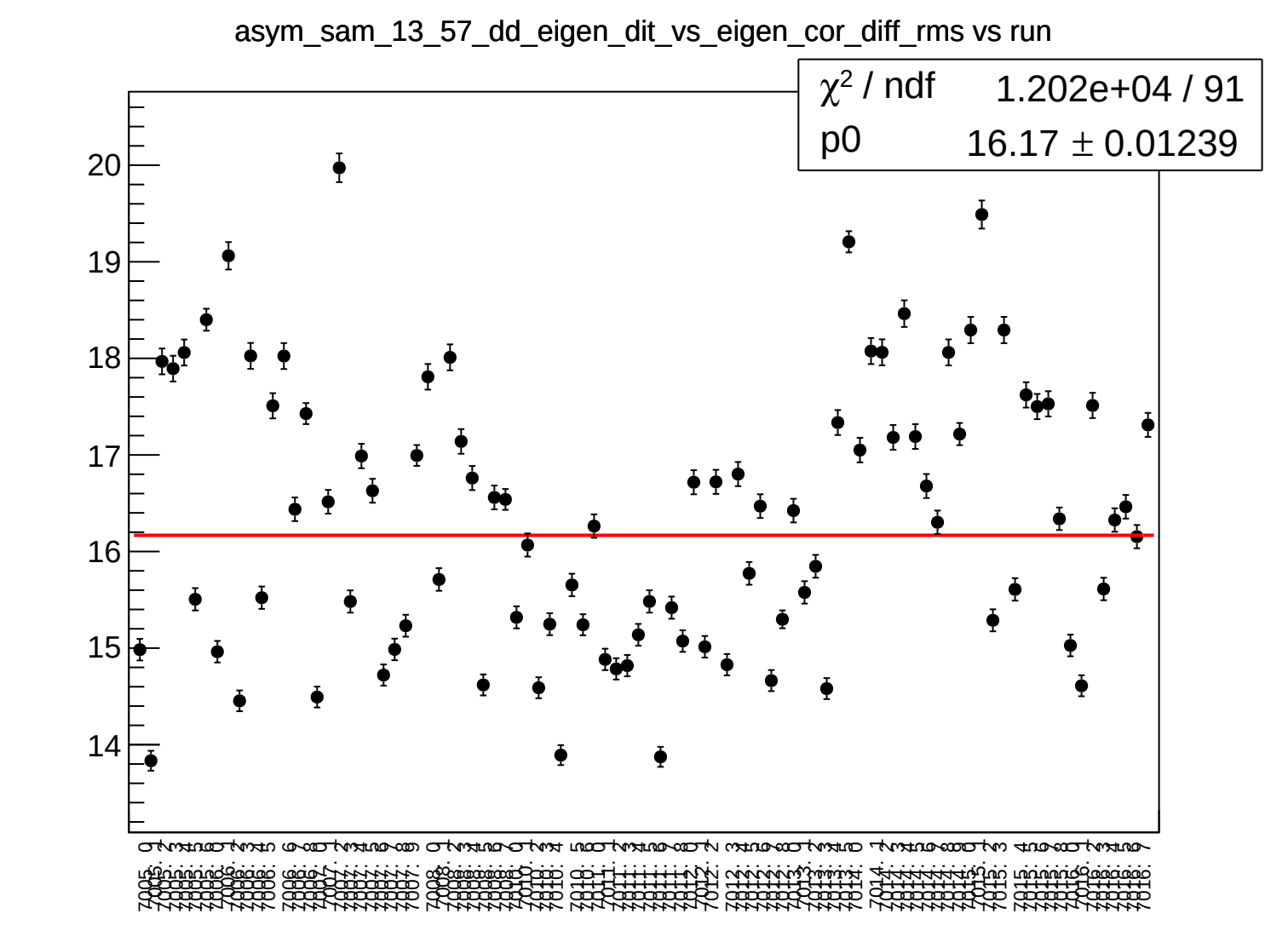

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.53 / 91
p0 0.001112 ± 0.01752
pull
Entries 92
Mean −141.1
Std Dev 0

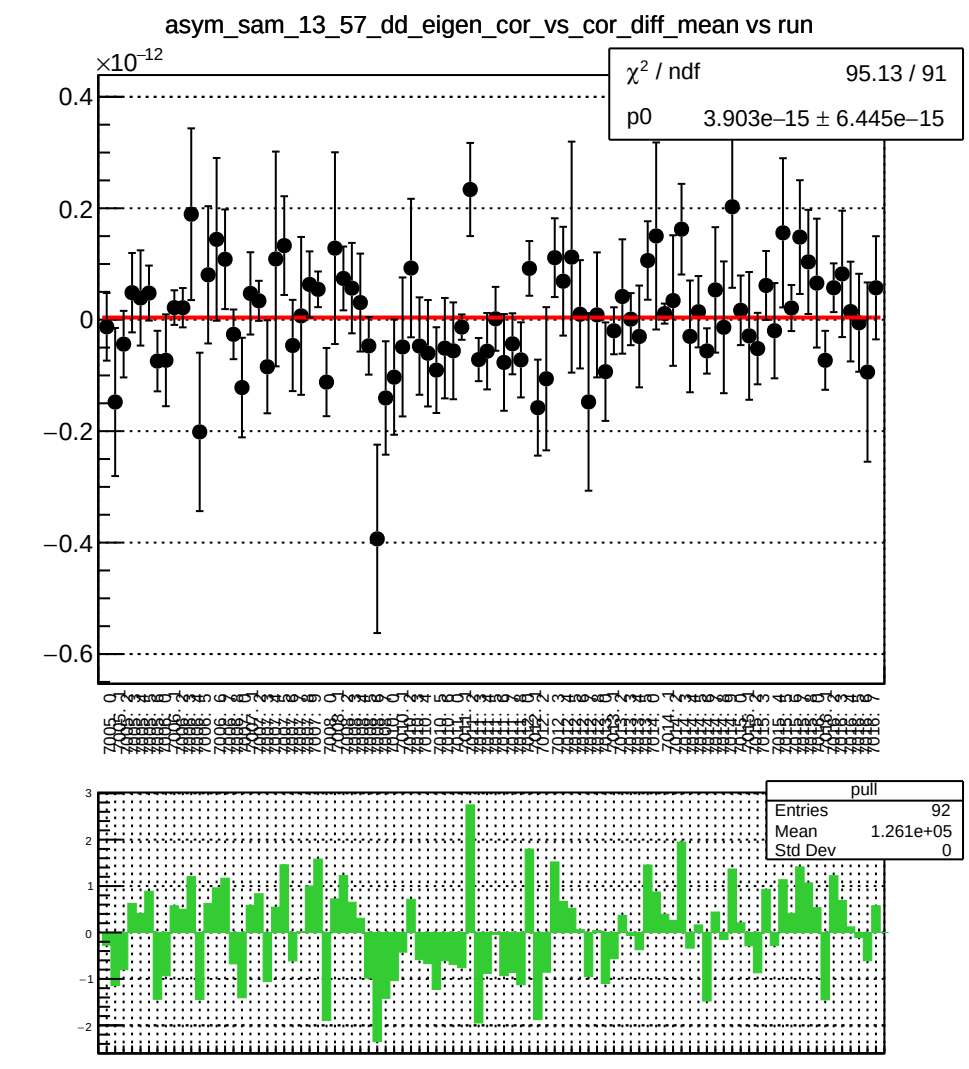

pull1D
Entries 92
Mean 0.007479
Std Dev 1.014

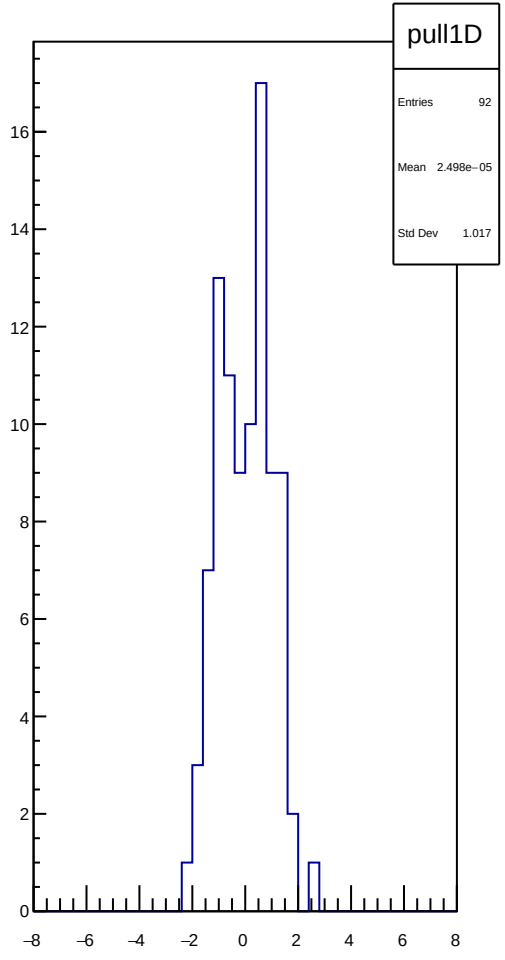

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.202e+04 / 91
p0 16.17 ± 0.01239
20
19
18
17
16
15
14

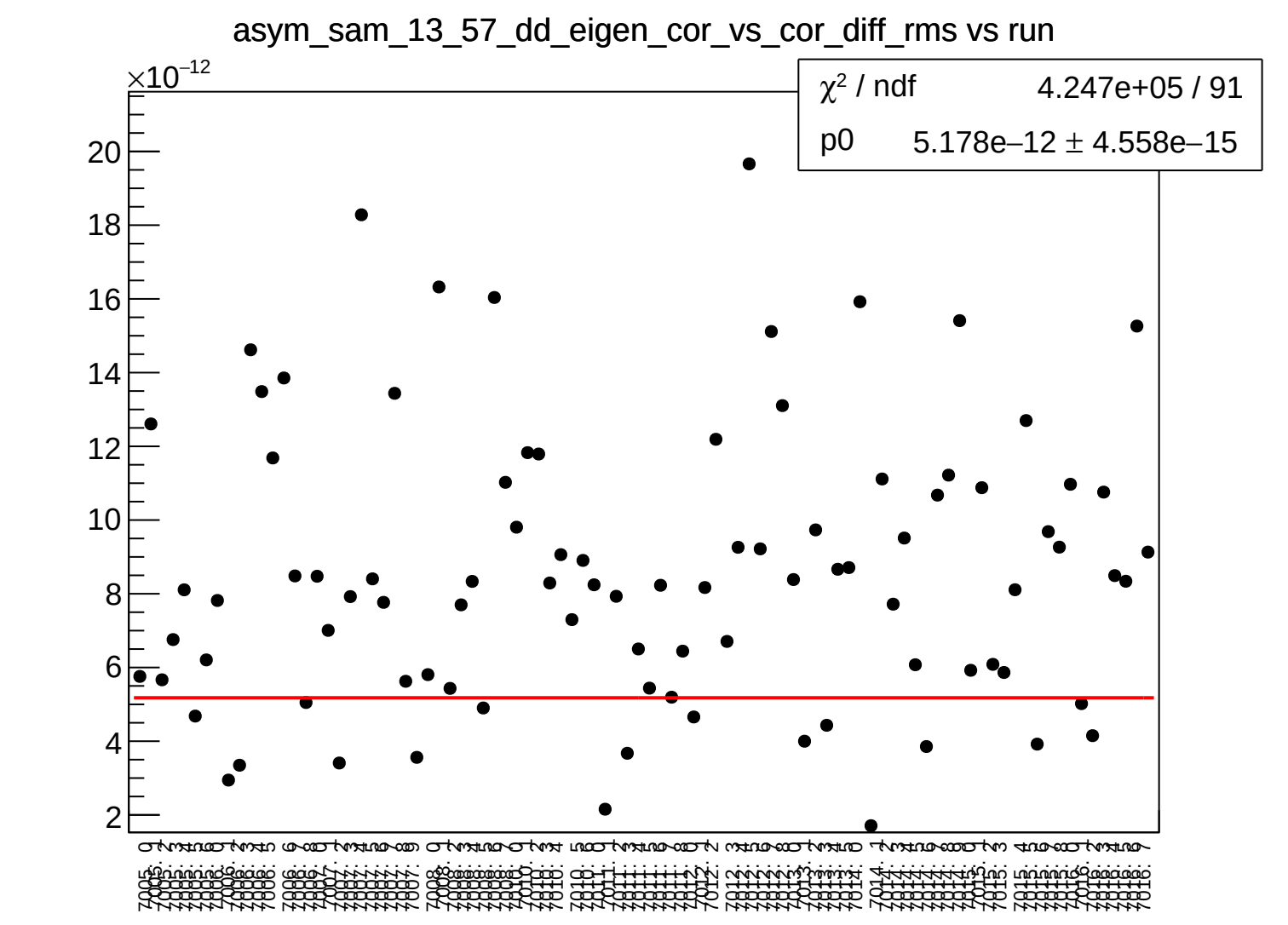

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.53 / 91
p0 0.001112 ± 0.01752
pull
Entries 92
Mean −141.1
Std Dev 0

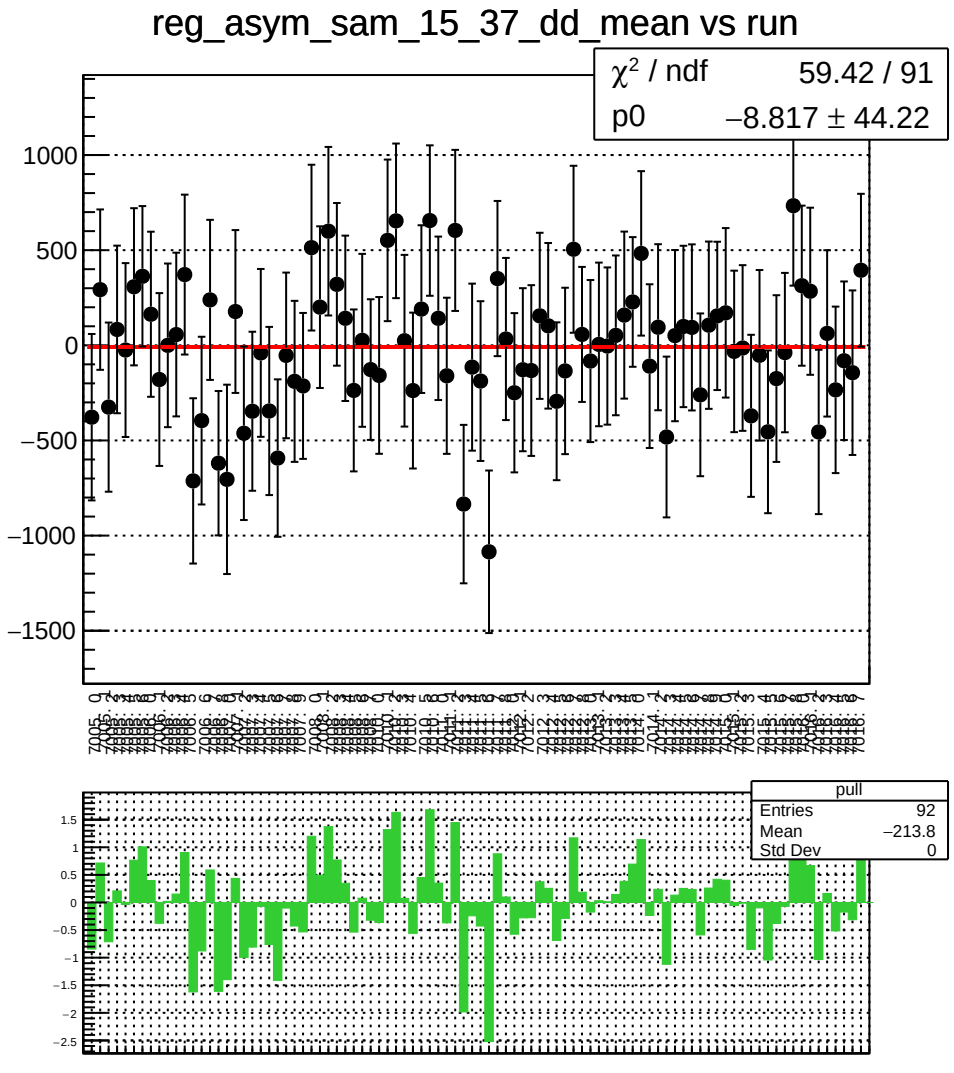

pull1D
Entries 92
Mean 0.007479
Std Dev 1.014

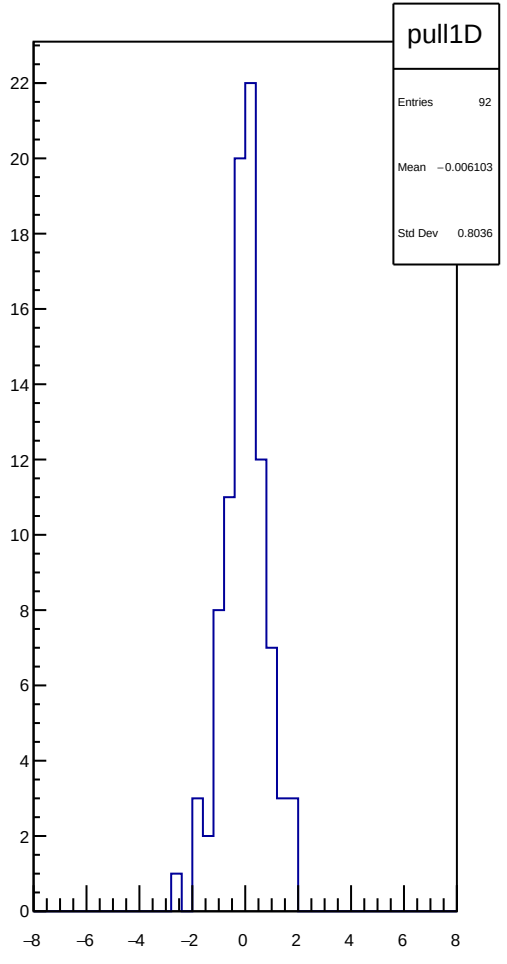

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.202e+04 / 91
p0 16.17 ± 0.01239
20
19
18
17
16
15
14

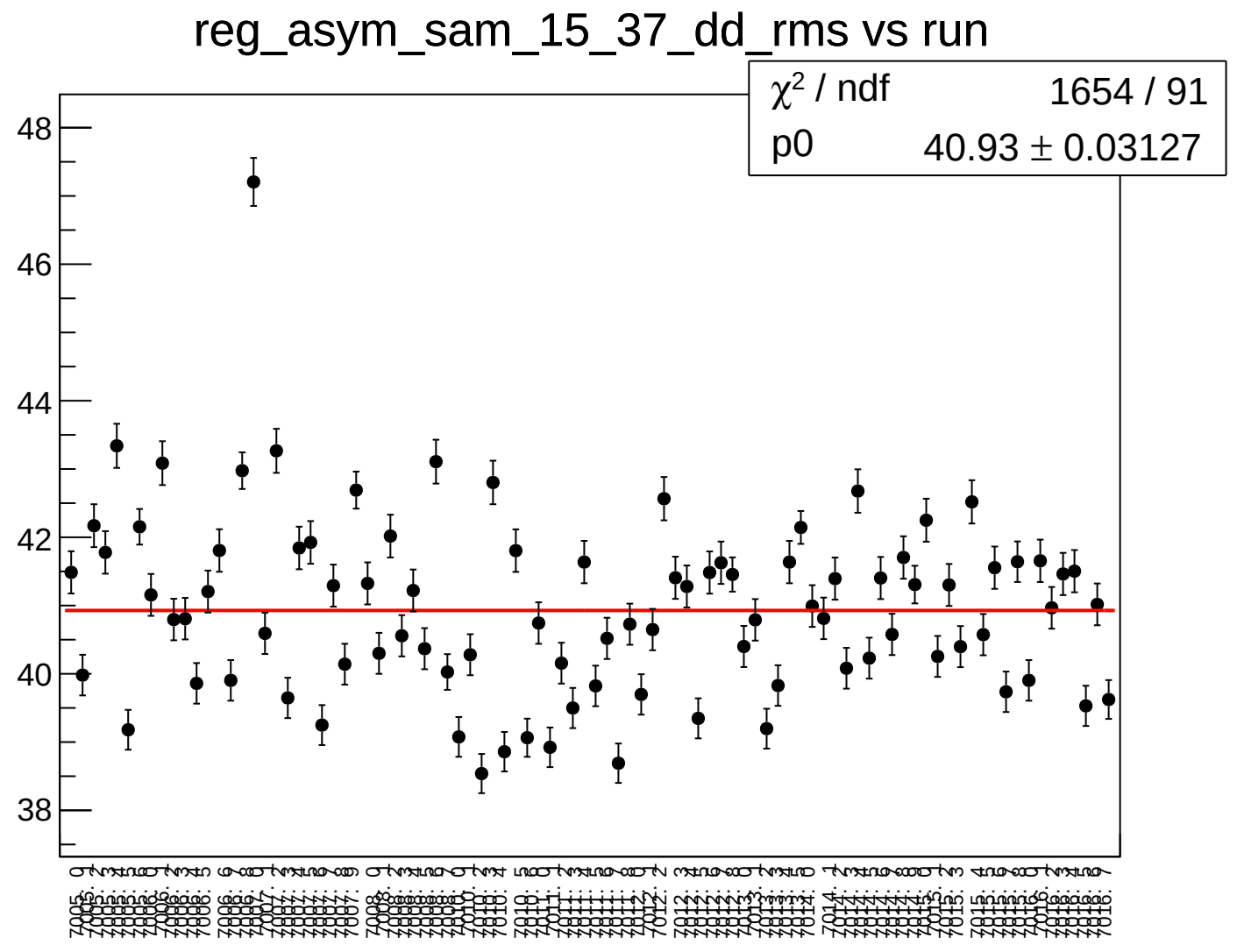

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.13 / 91
p0 3.903e−15 ± 6.445e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 92
Mean 1.261e+05
Std Dev 0
3
2
1
0
−1
−2

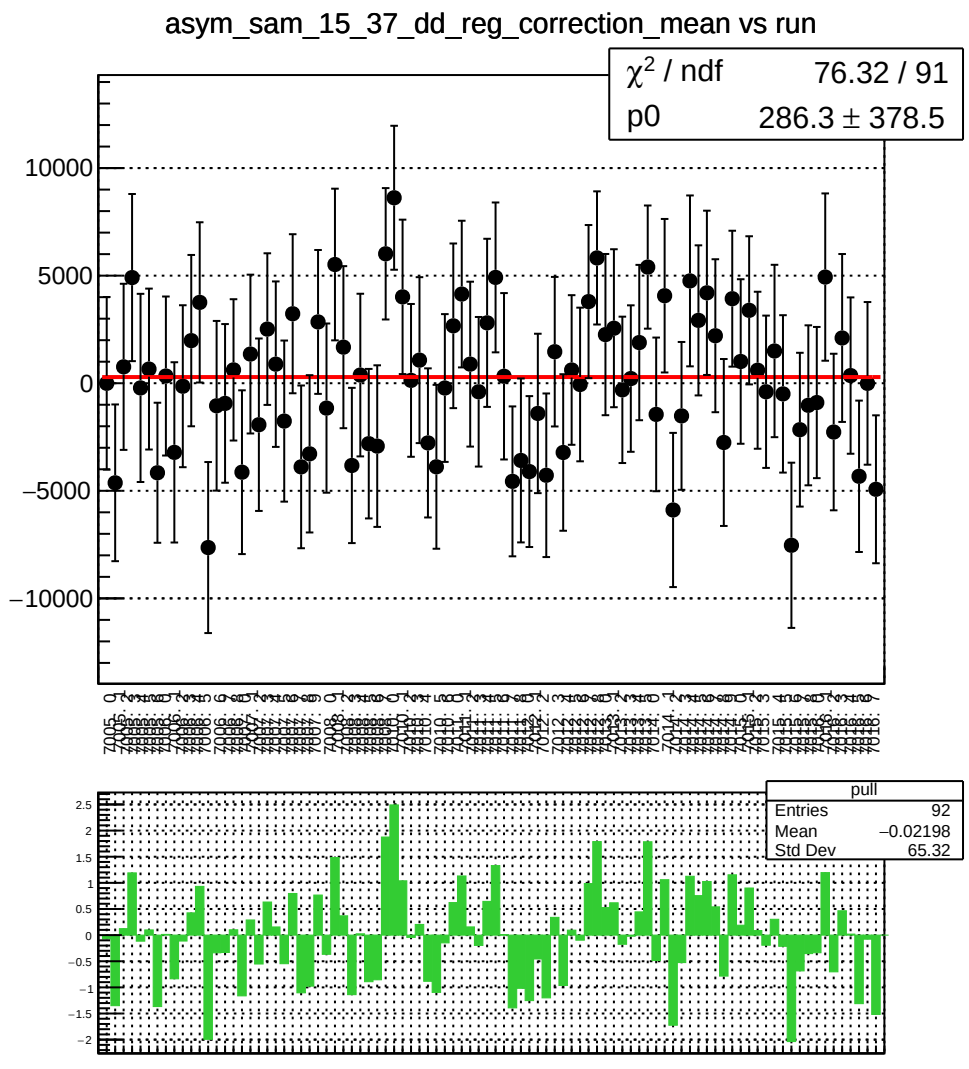

pull1D
Entries 92
Mean 2.498e−05
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

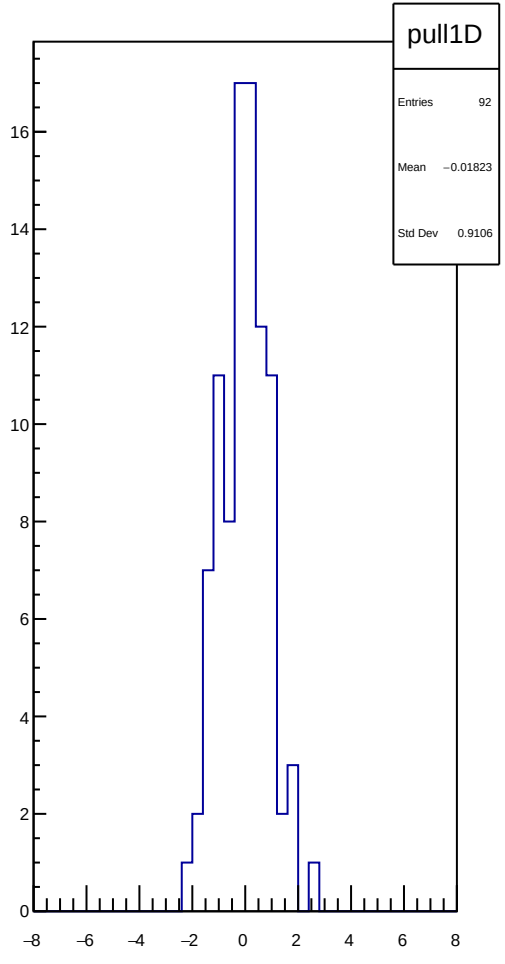

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.247e+05 / 91
p0 5.178e−12 ± 4.558e−15
20
18
16
14
12
10
8
6
4
2

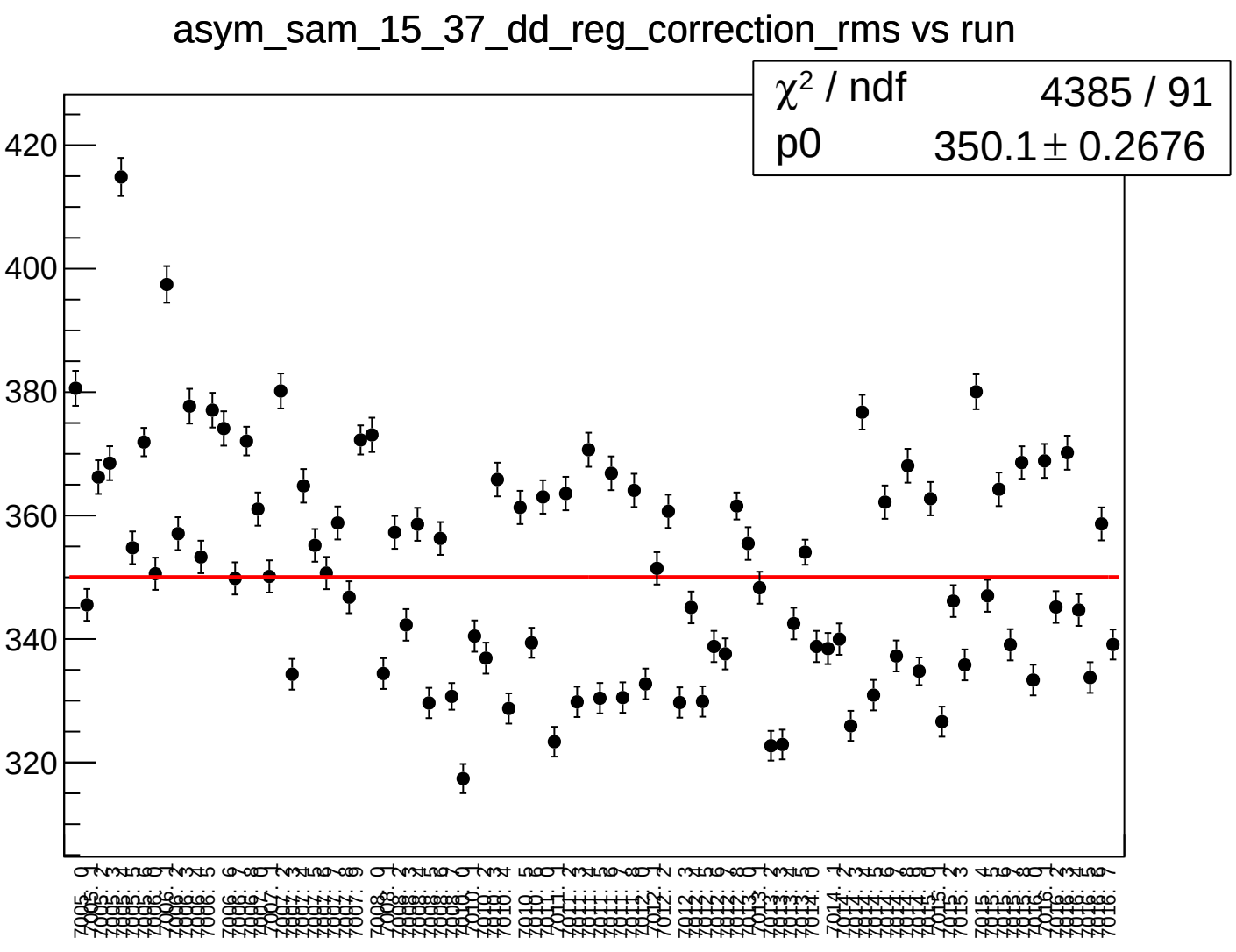

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 59.42 / 91
p0 −8.817 ± 44.22
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −213.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

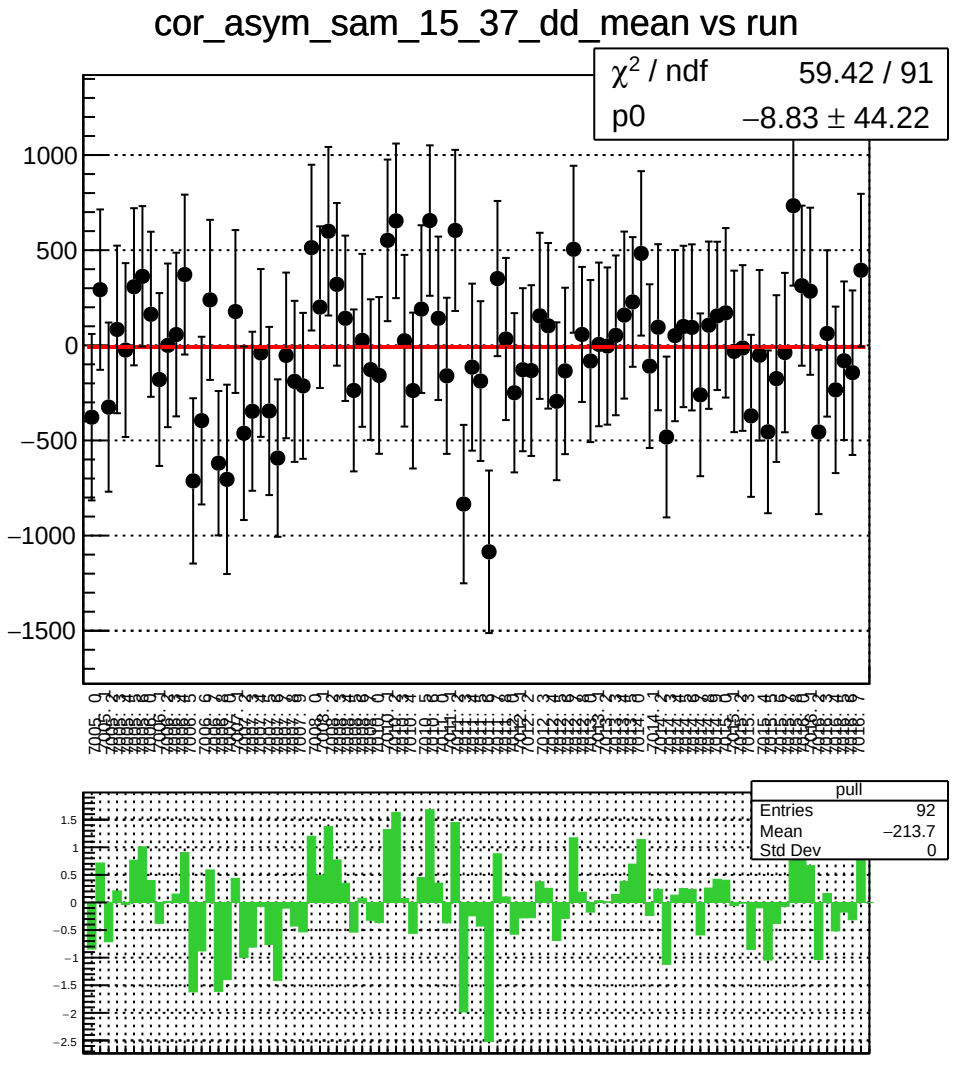

pull1D
Entries 92
Mean −0.006103
Std Dev 0.8036
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

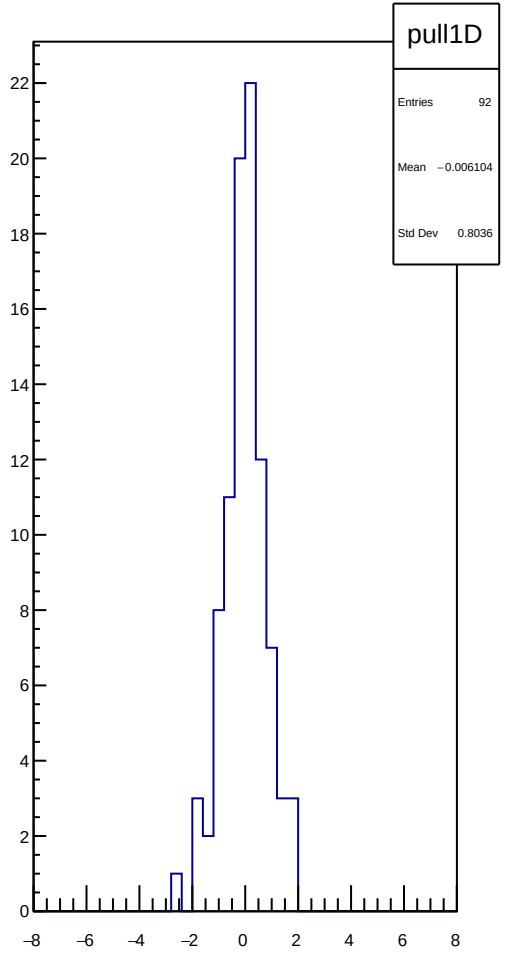

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1654 / 91
p0 40.93 ± 0.03127
48
46
44
42
40
38

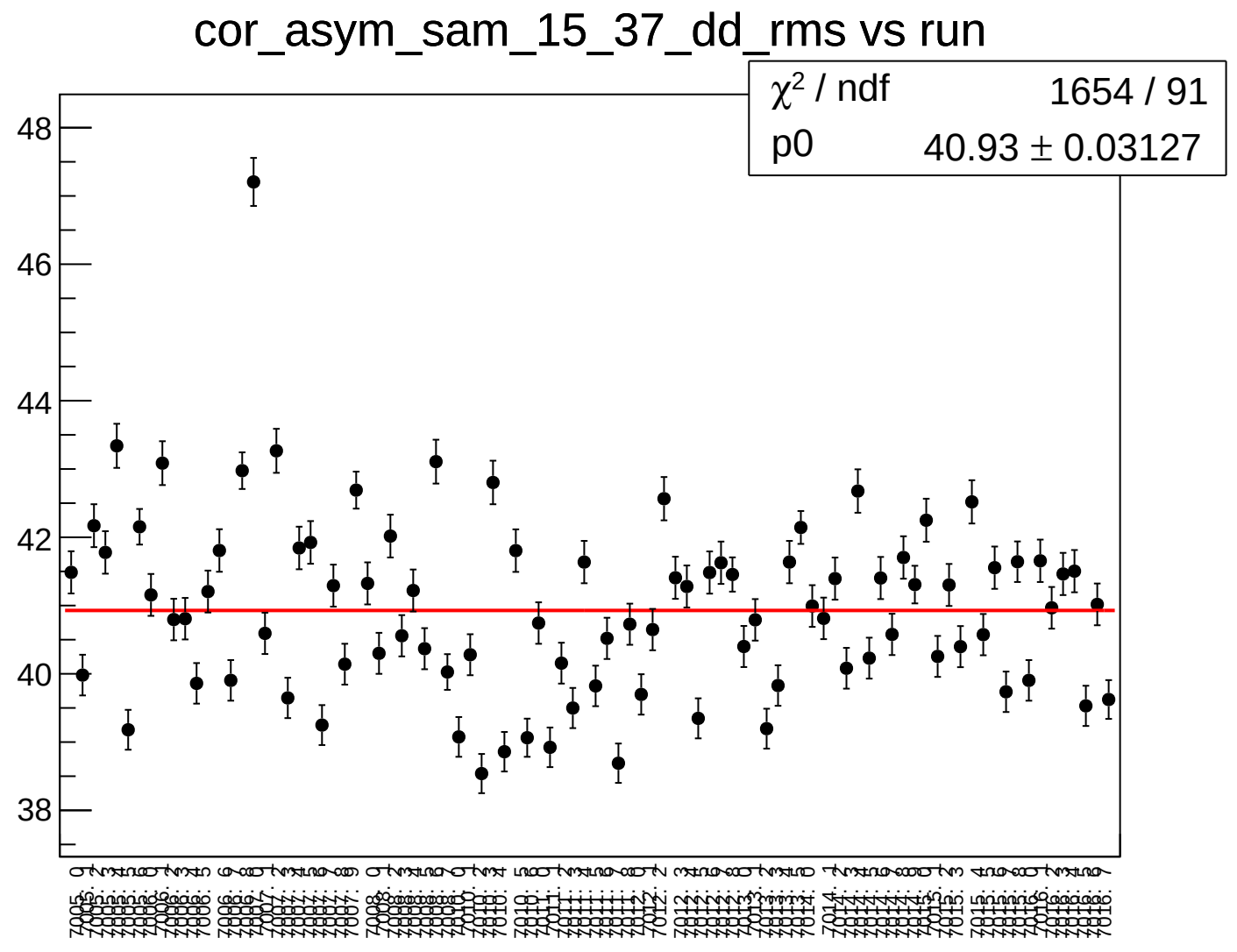

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 76.32 / 91
p0 286.3 ± 378.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −0.02198
Std Dev 65.32
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

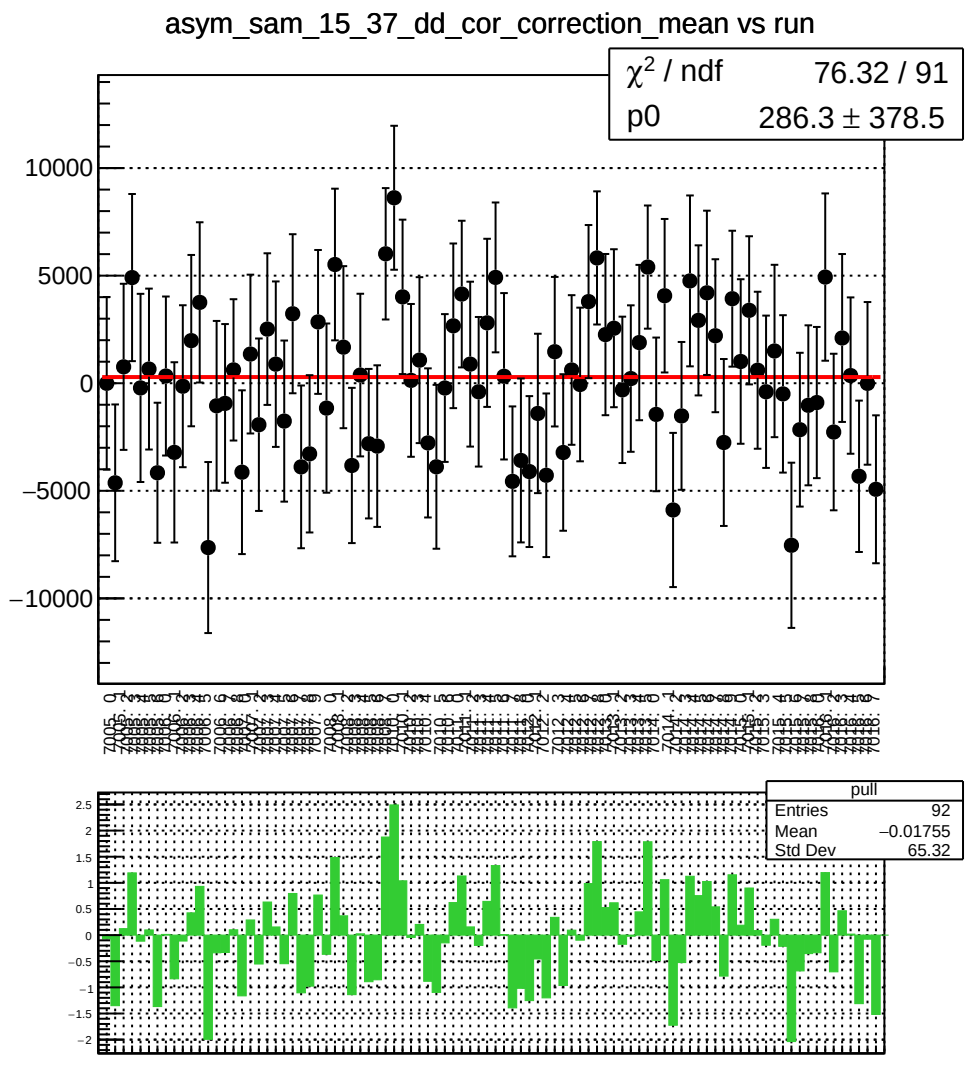

pull1D
Entries 92
Mean −0.01823
Std Dev 0.9106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

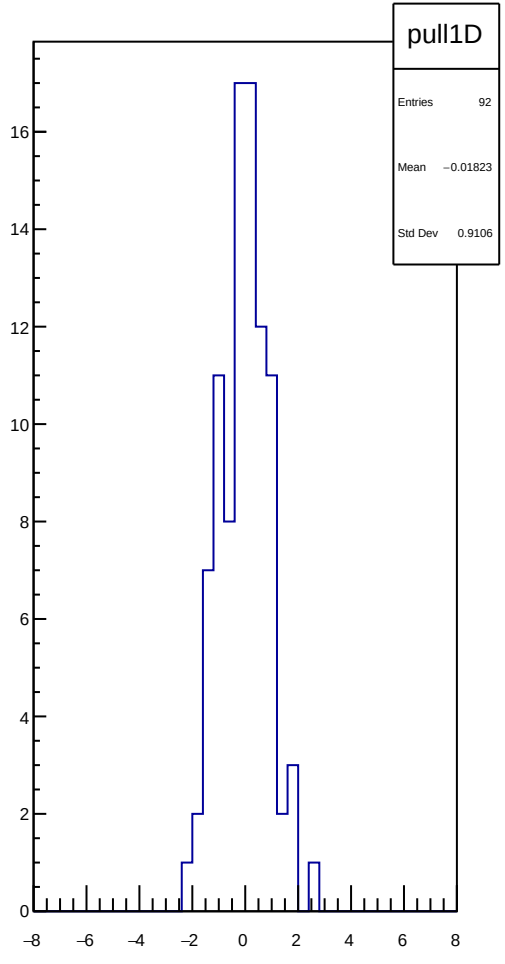

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 4385 / 91
p0 350.1 ± 0.2676
420
400
380
360
340
320

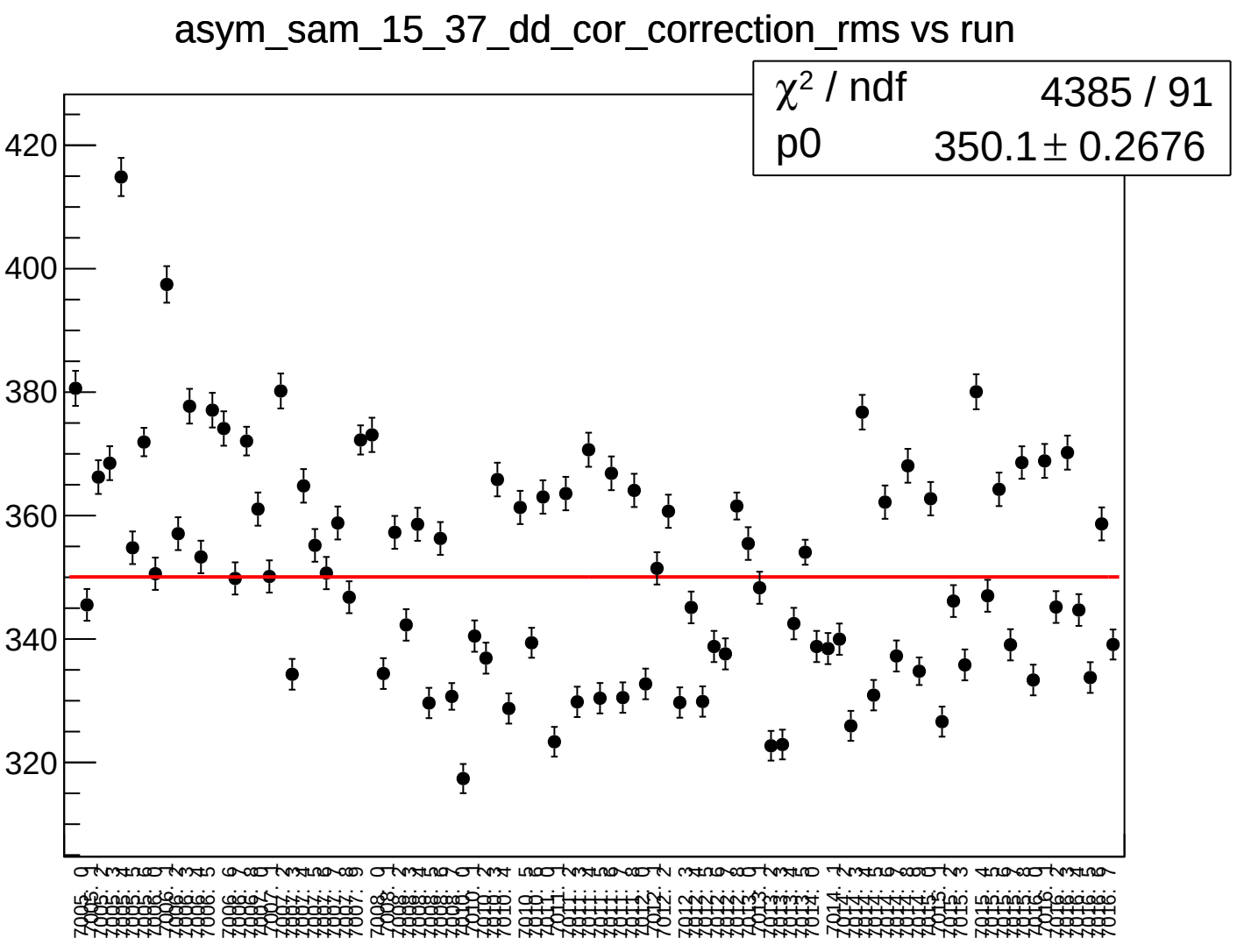

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 59.42 / 91
p0 −8.83 ± 44.22
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −213.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

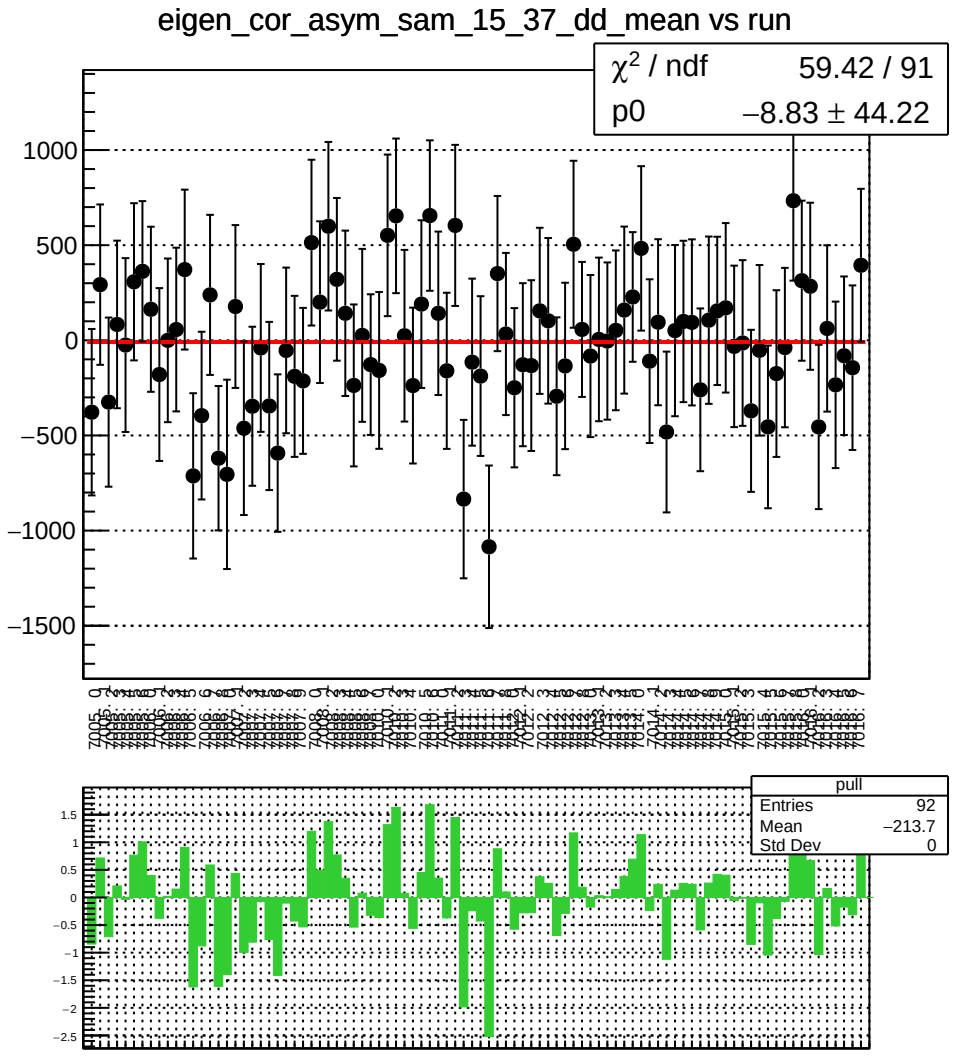

pull1D
Entries 92
Mean −0.006104
Std Dev 0.8036
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

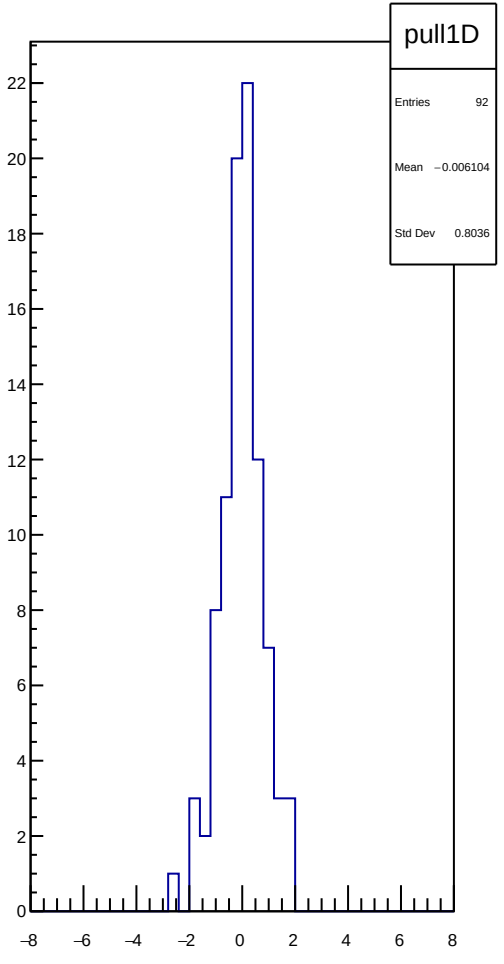

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1654 / 91
p0 40.93 ± 0.03127
48
46
44
42
40
38

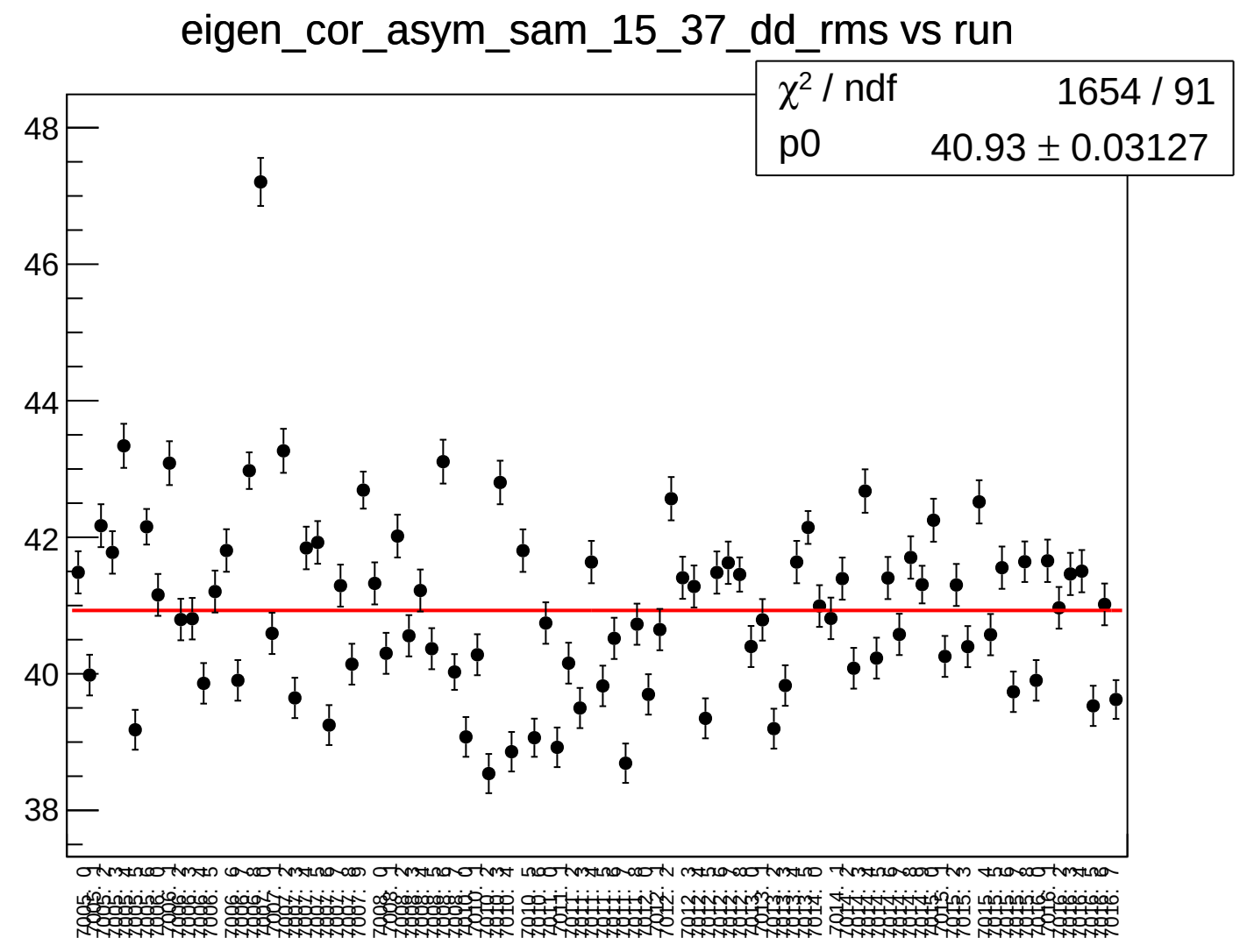

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 76.32 / 91
p0 286.3 ± 378.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −0.01755
Std Dev 65.32
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

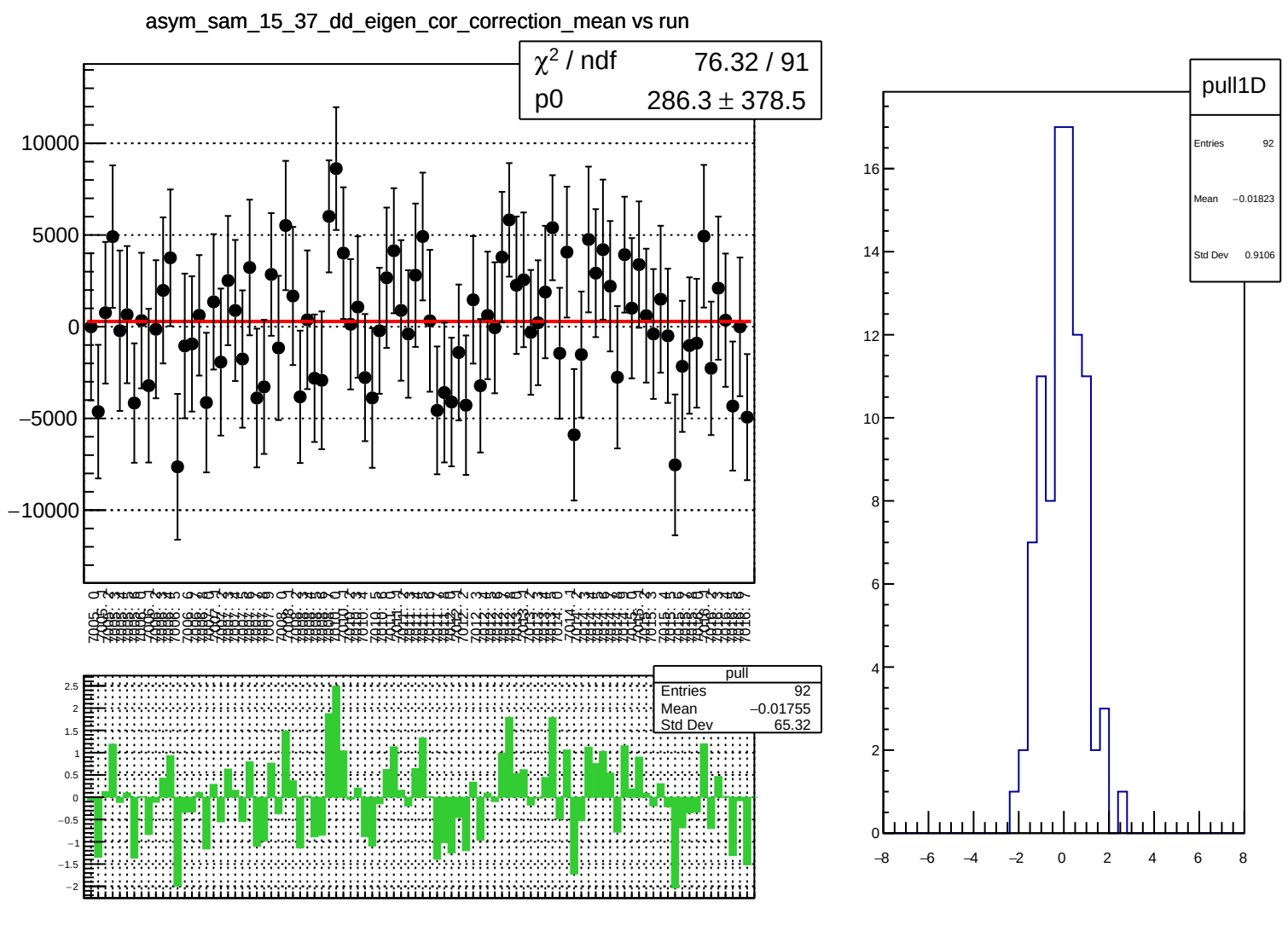

pull1D
Entries 92
Mean −0.01823
Std Dev 0.9106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

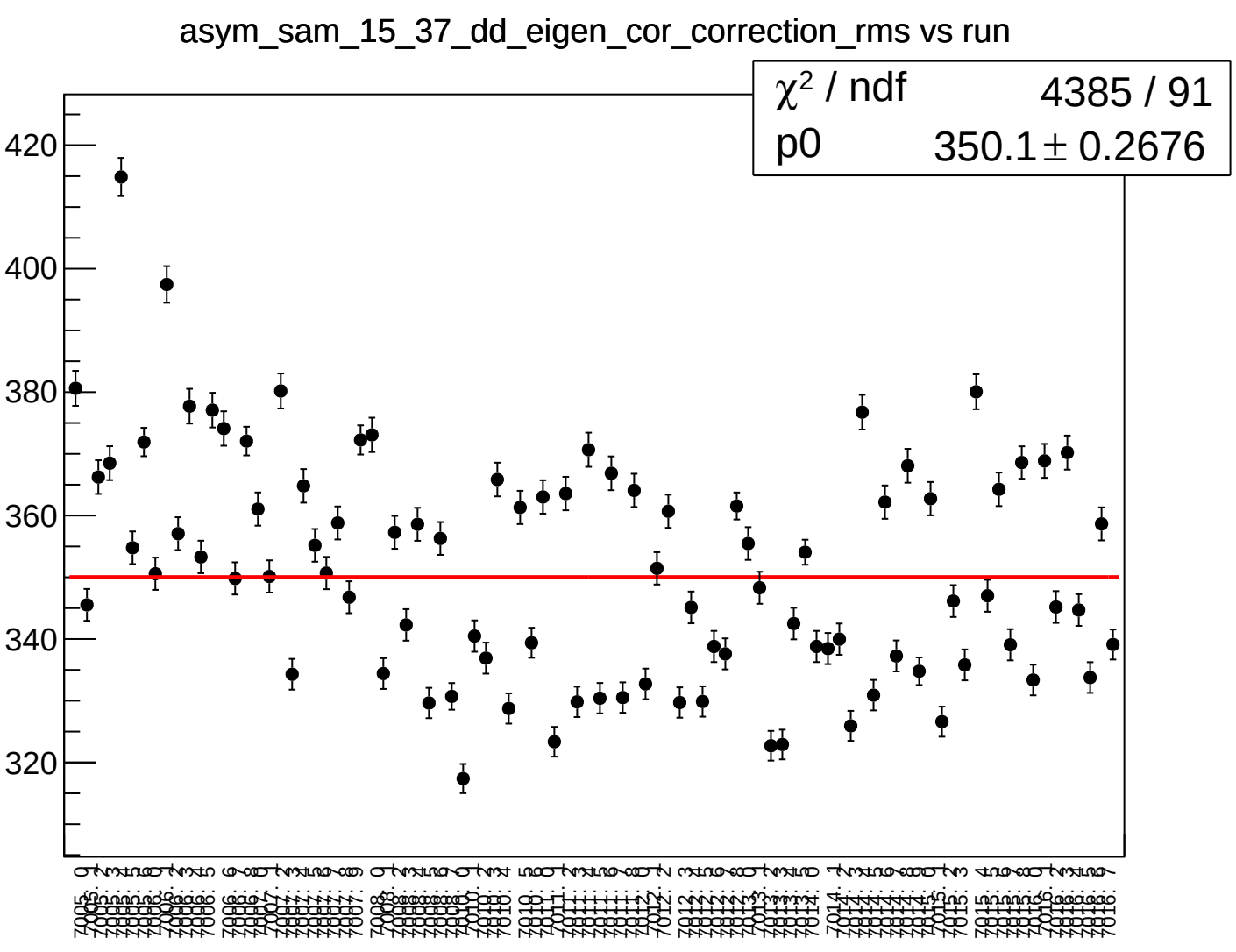

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 4385 / 91
p0 350.1 ± 0.2676
420
400
380
360
340
320

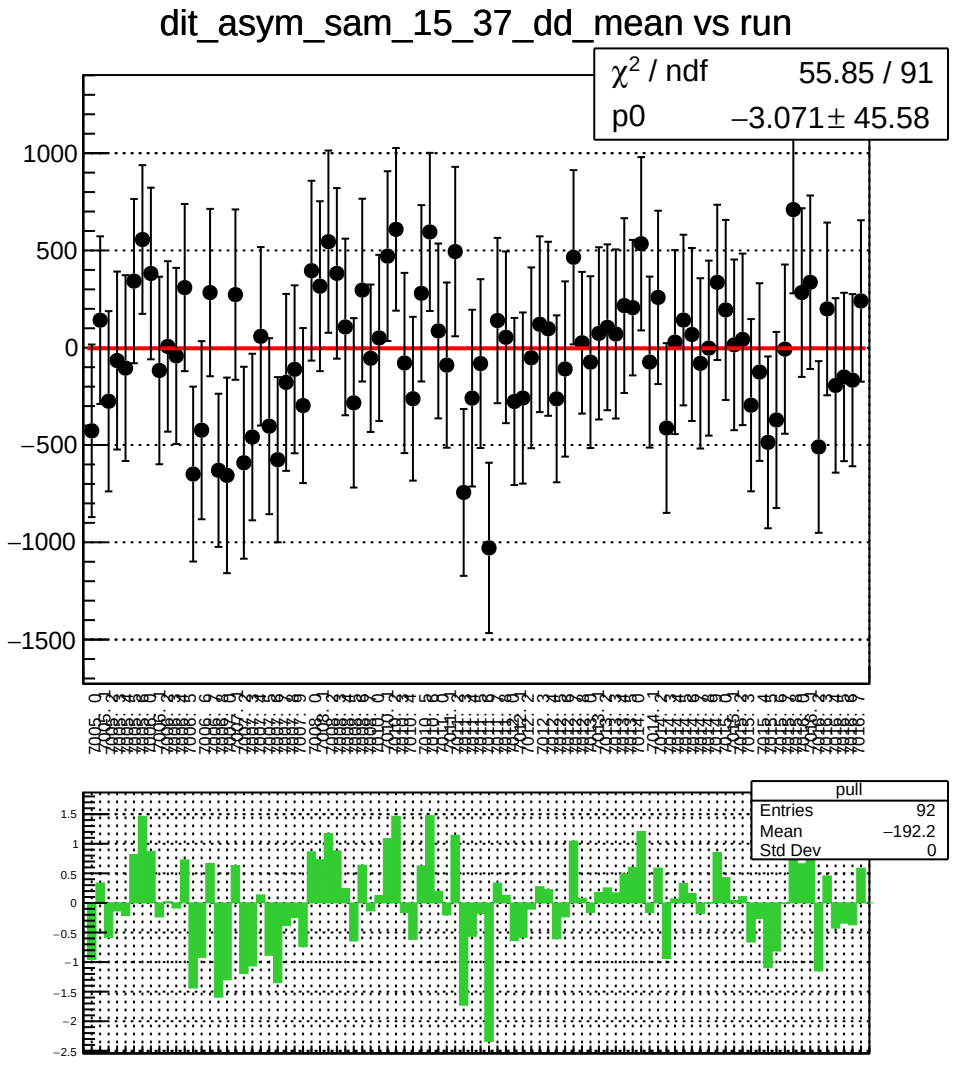

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 59.42 / 91
p0 −8.83 ± 44.22
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −213.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

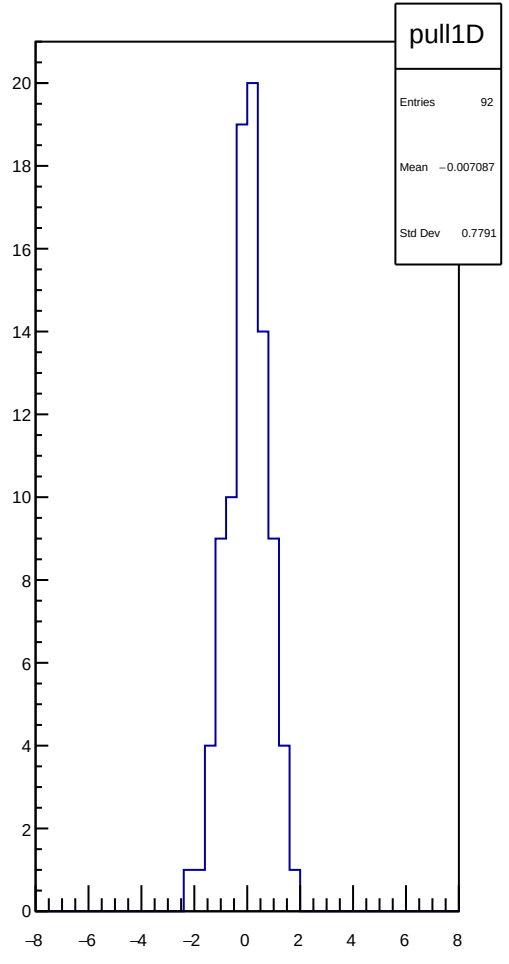

pull1D
Entries 92
Mean −0.006104
Std Dev 0.8036
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

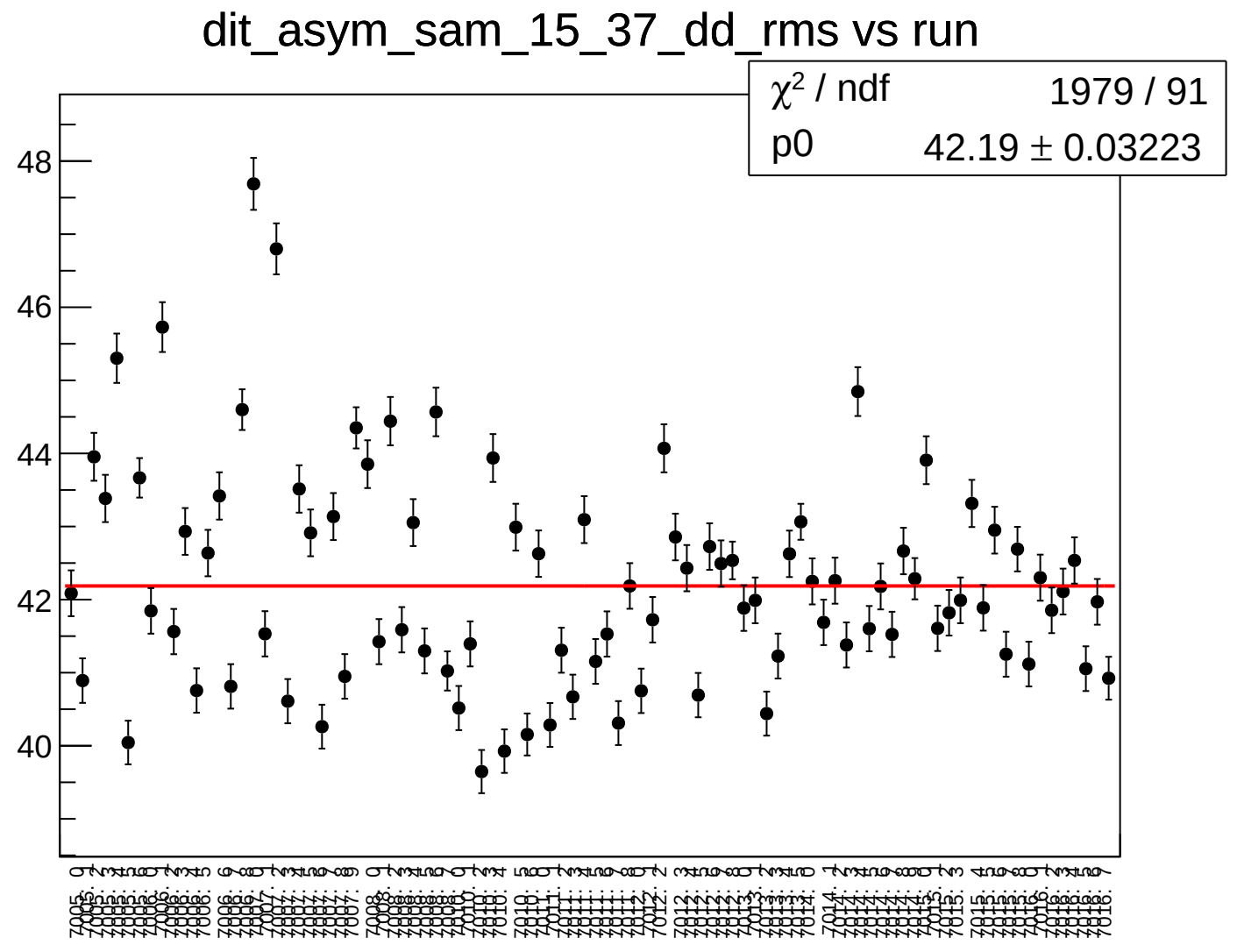

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1654 / 91
p0 40.93 ± 0.03127
48
46
44
42
40
38

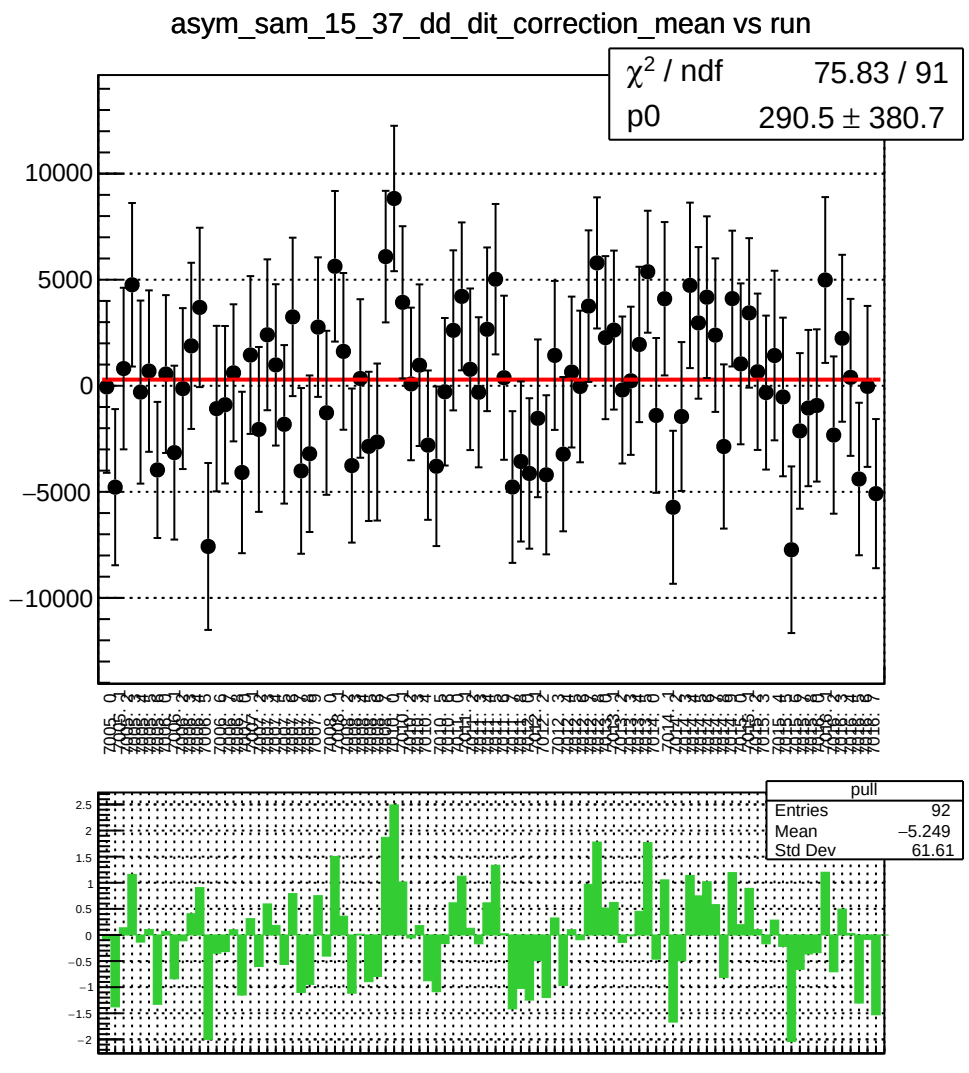

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.32 / 91
p0 286.3 ± 378.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −0.01755
Std Dev 65.32
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.01823
Std Dev 0.9106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

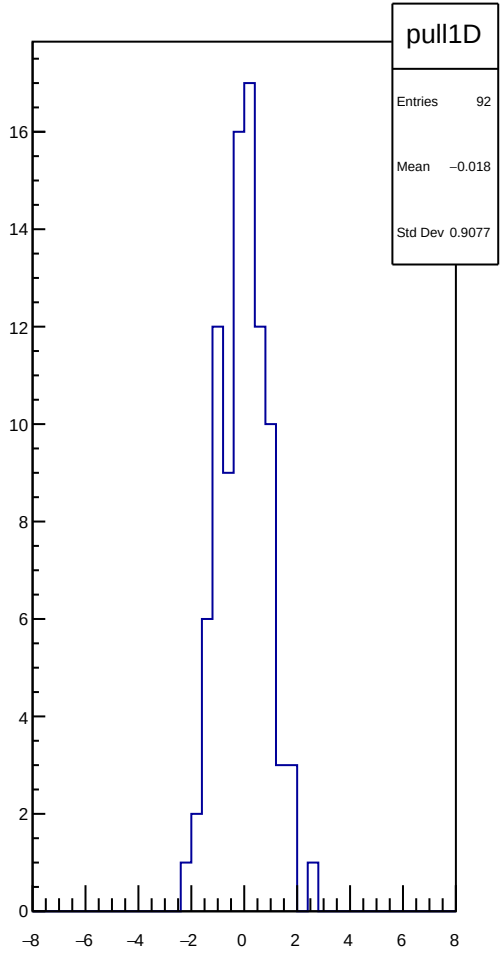

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4385 / 91
p0 350.1 ± 0.2676
420
400
380
360
340
320

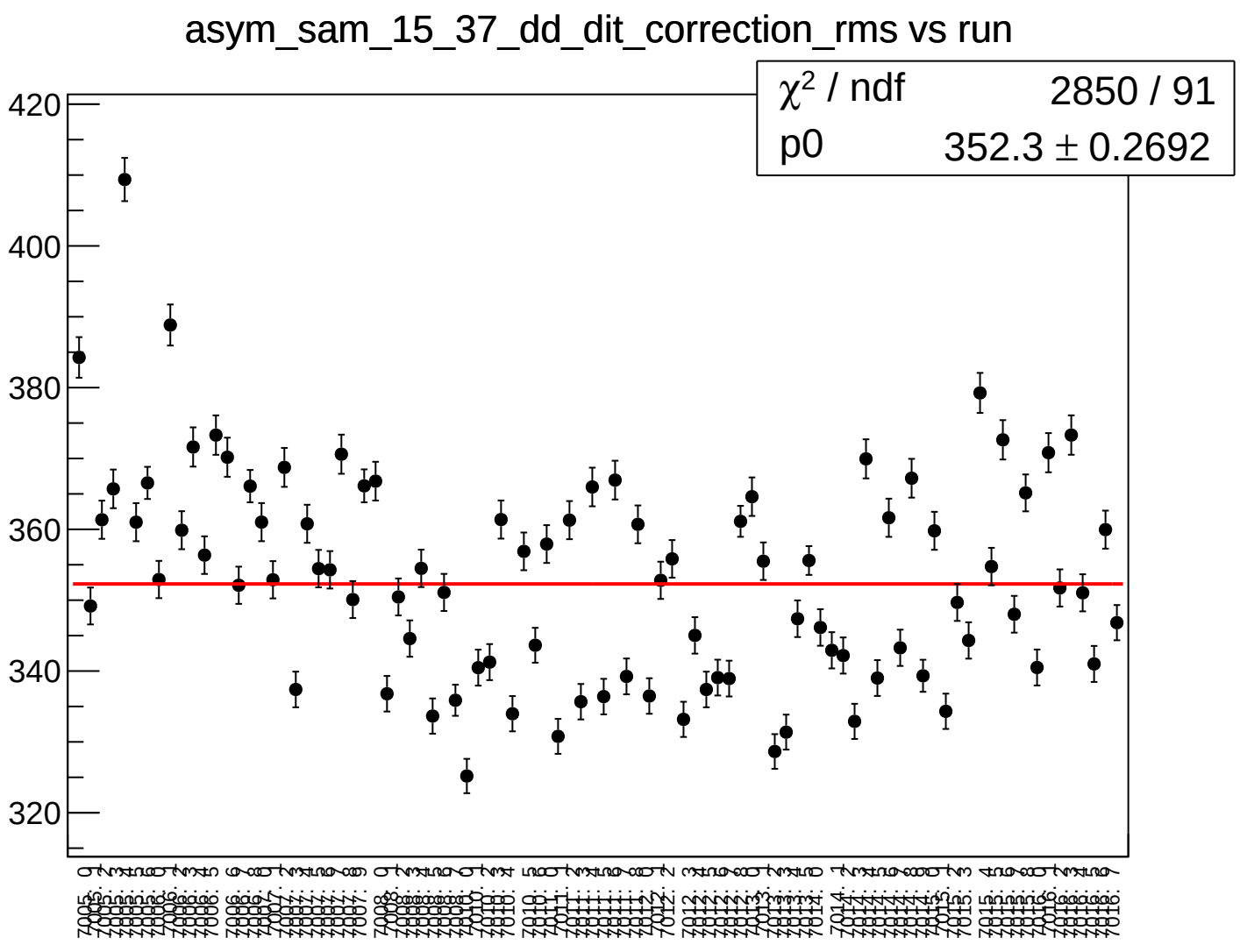

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 55.85 / 91
p0 −3.071 ± 45.58
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −192.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

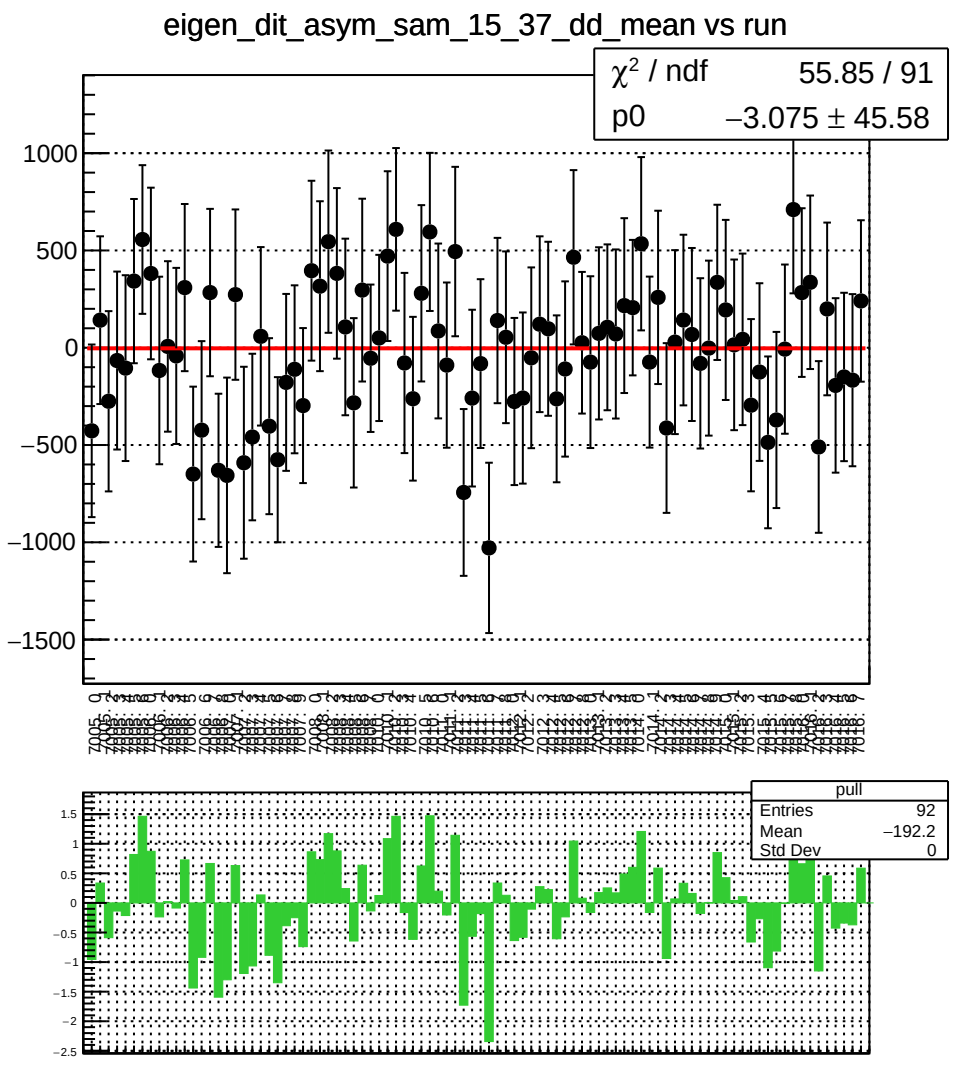

pull1D
Entries 92
Mean −0.007087
Std Dev 0.7791
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

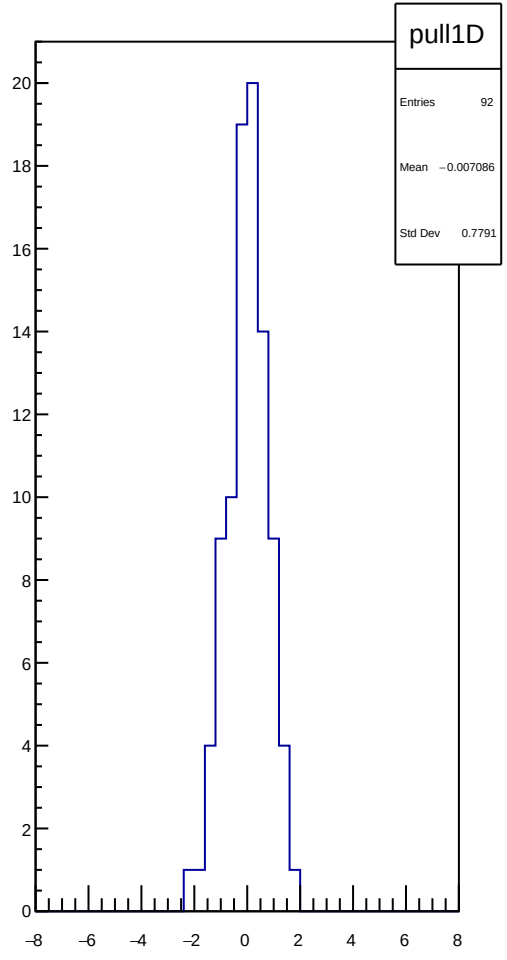

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1979 / 91
p0 42.19 ± 0.03223
48
46
44
42
40

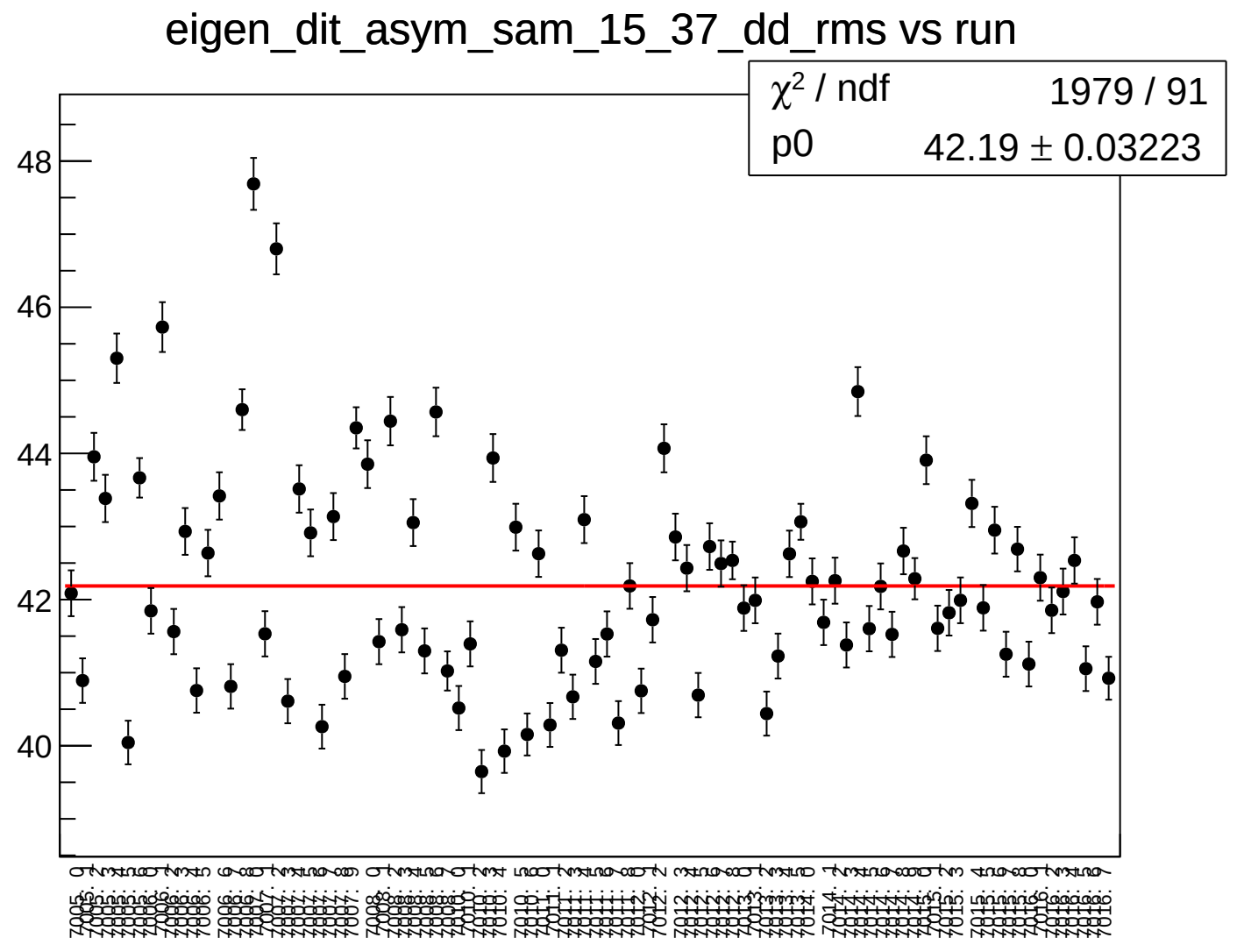

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 75.83 / 91
p0 290.5 ± 380.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −5.249
Std Dev 61.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

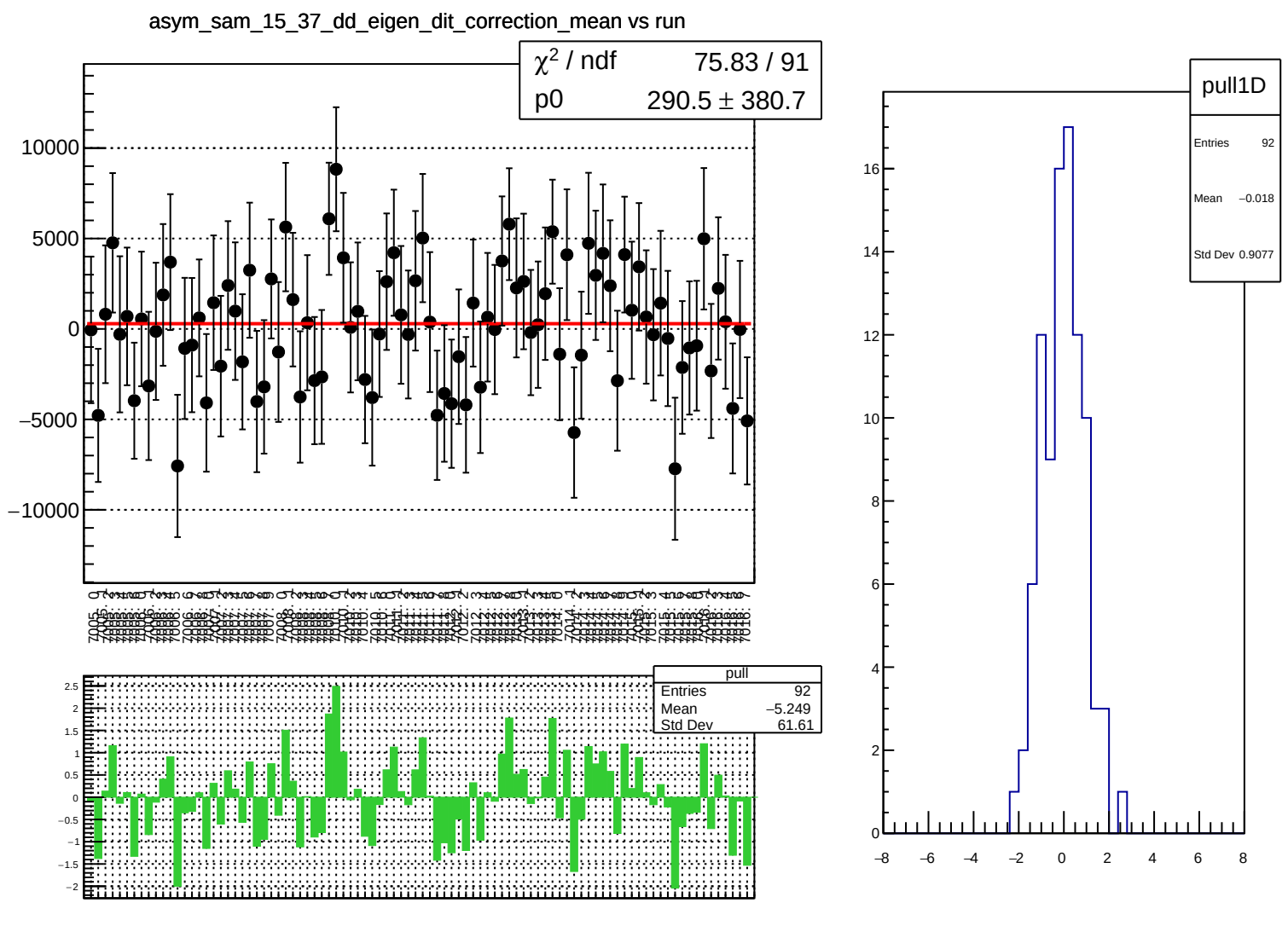

pull1D
Entries 92
Mean −0.018
Std Dev 0.9077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

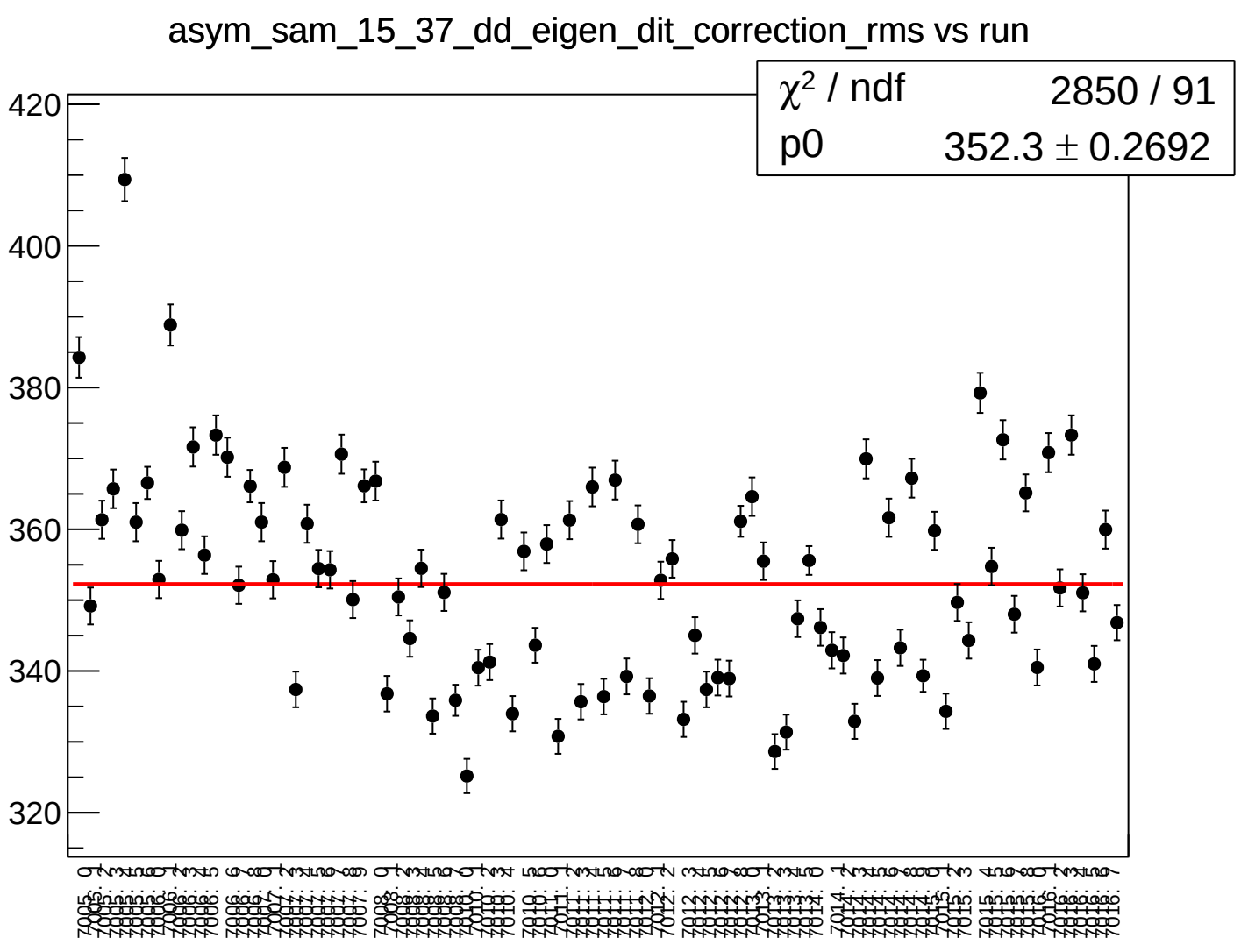

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 2850 / 91
p0 352.3 ± 0.2692
420
400
380
360
340
320

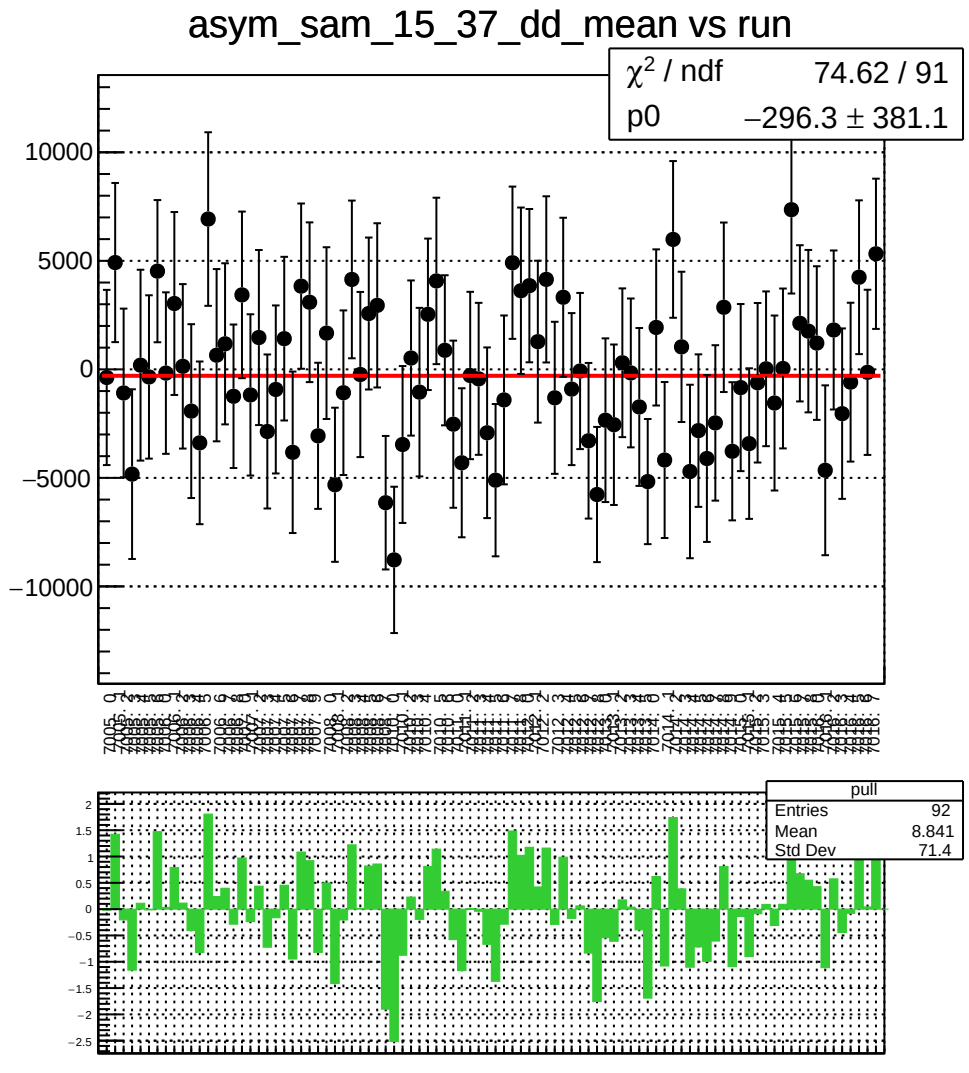

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 55.85 / 91
p0 −3.075 ± 45.58
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −192.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

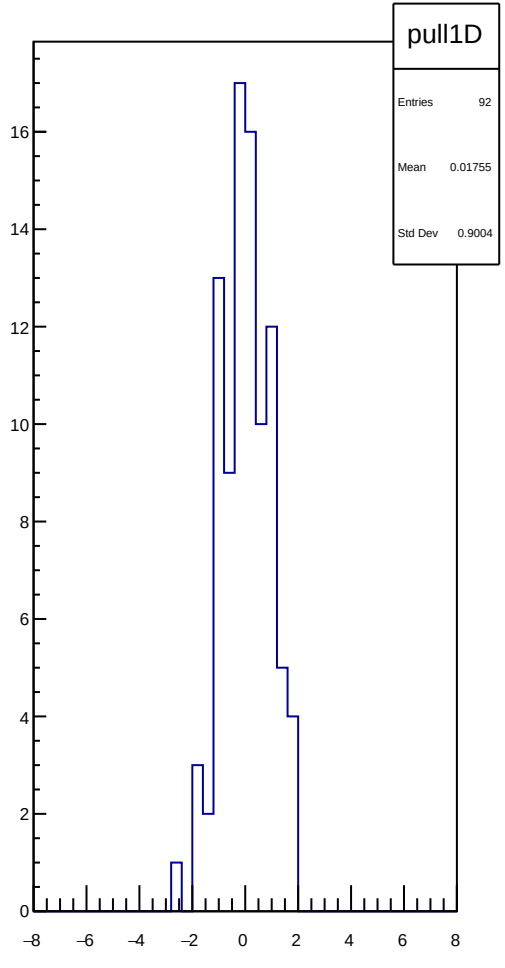

pull1D
Entries 92
Mean −0.007086
Std Dev 0.7791
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

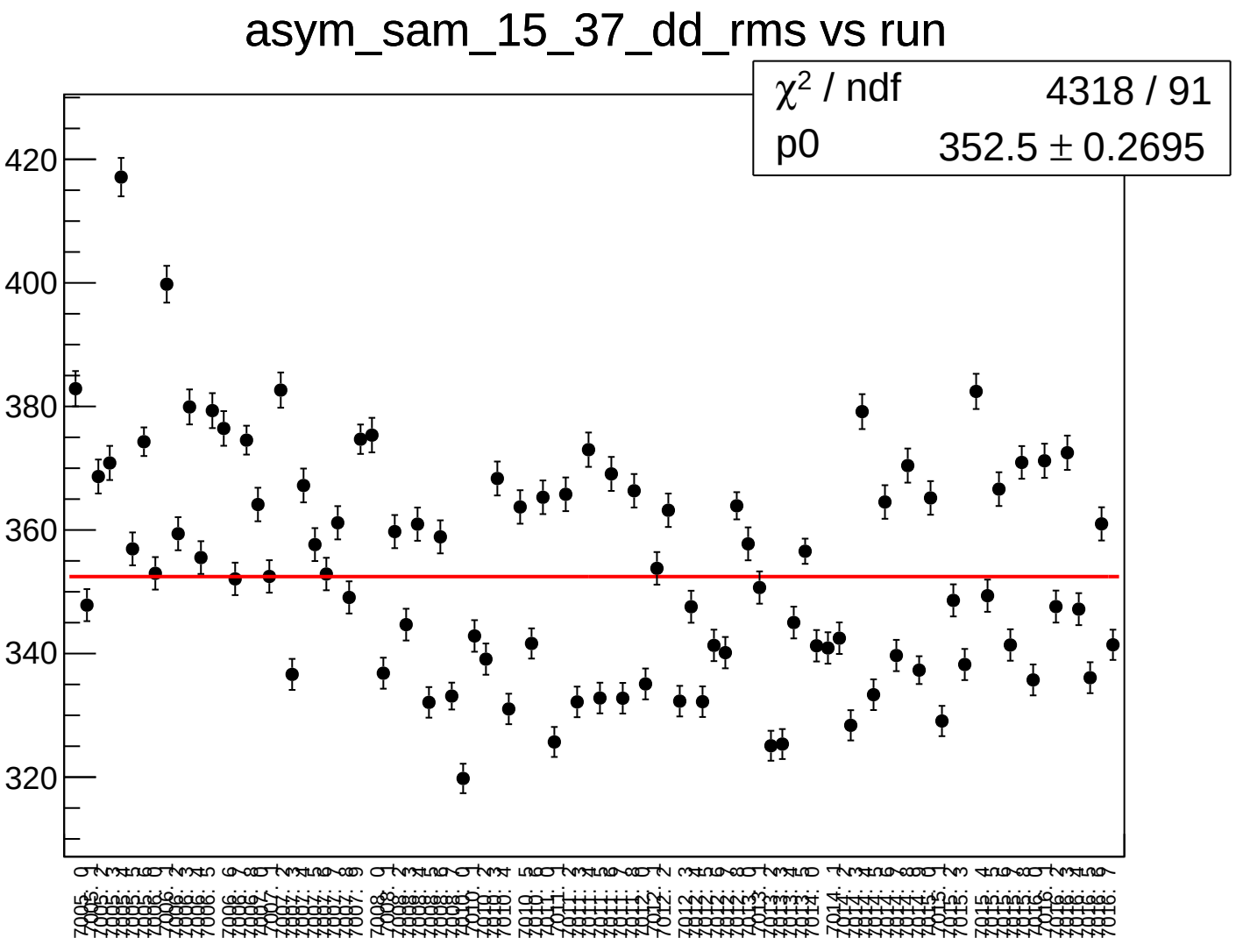

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1979 / 91
p0 42.19 ± 0.03223
48
46
44
42
40

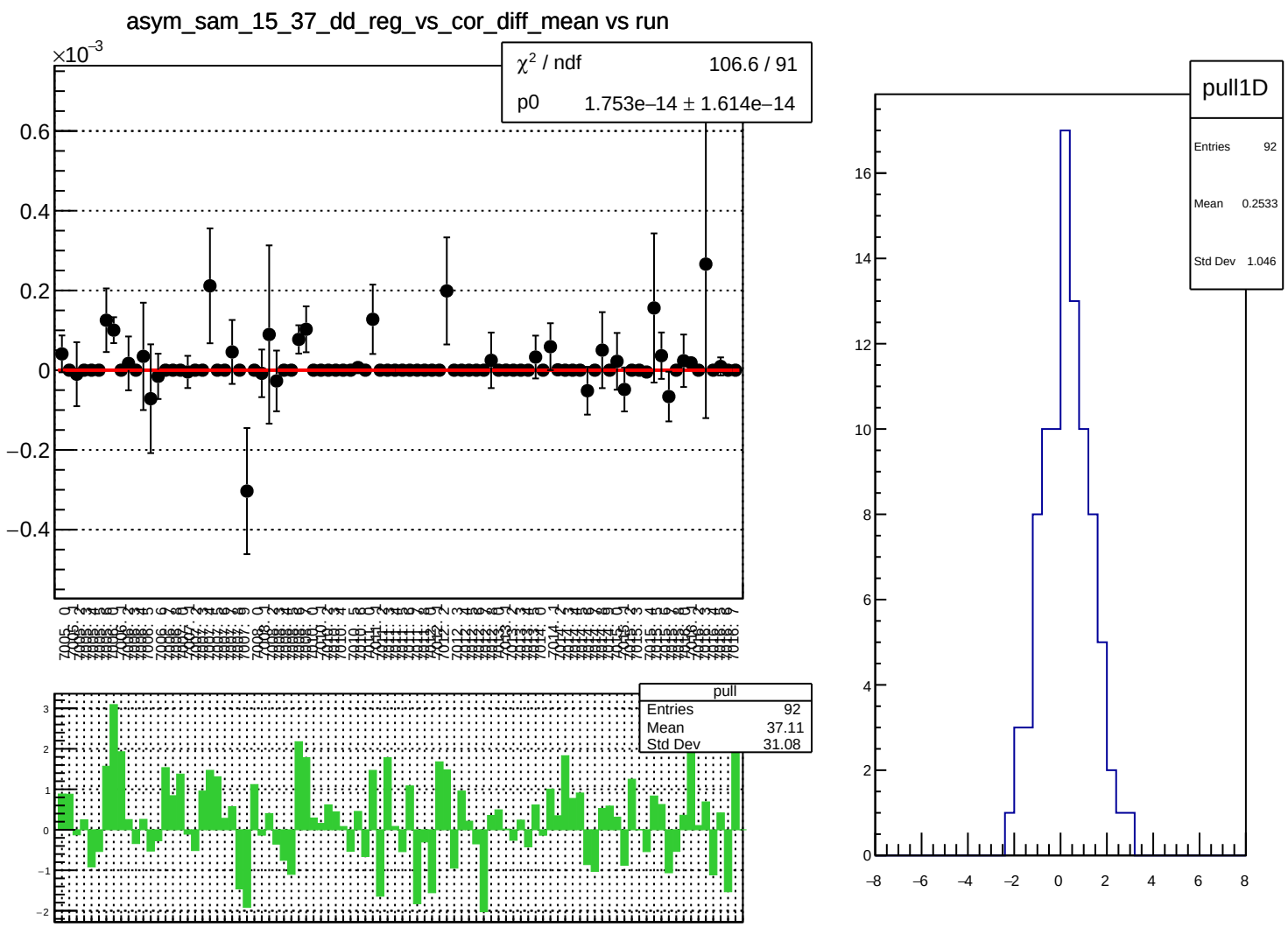

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.83 / 91
p0 290.5 ± 380.7
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −5.249
Std Dev 61.61
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.018
Std Dev 0.9077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

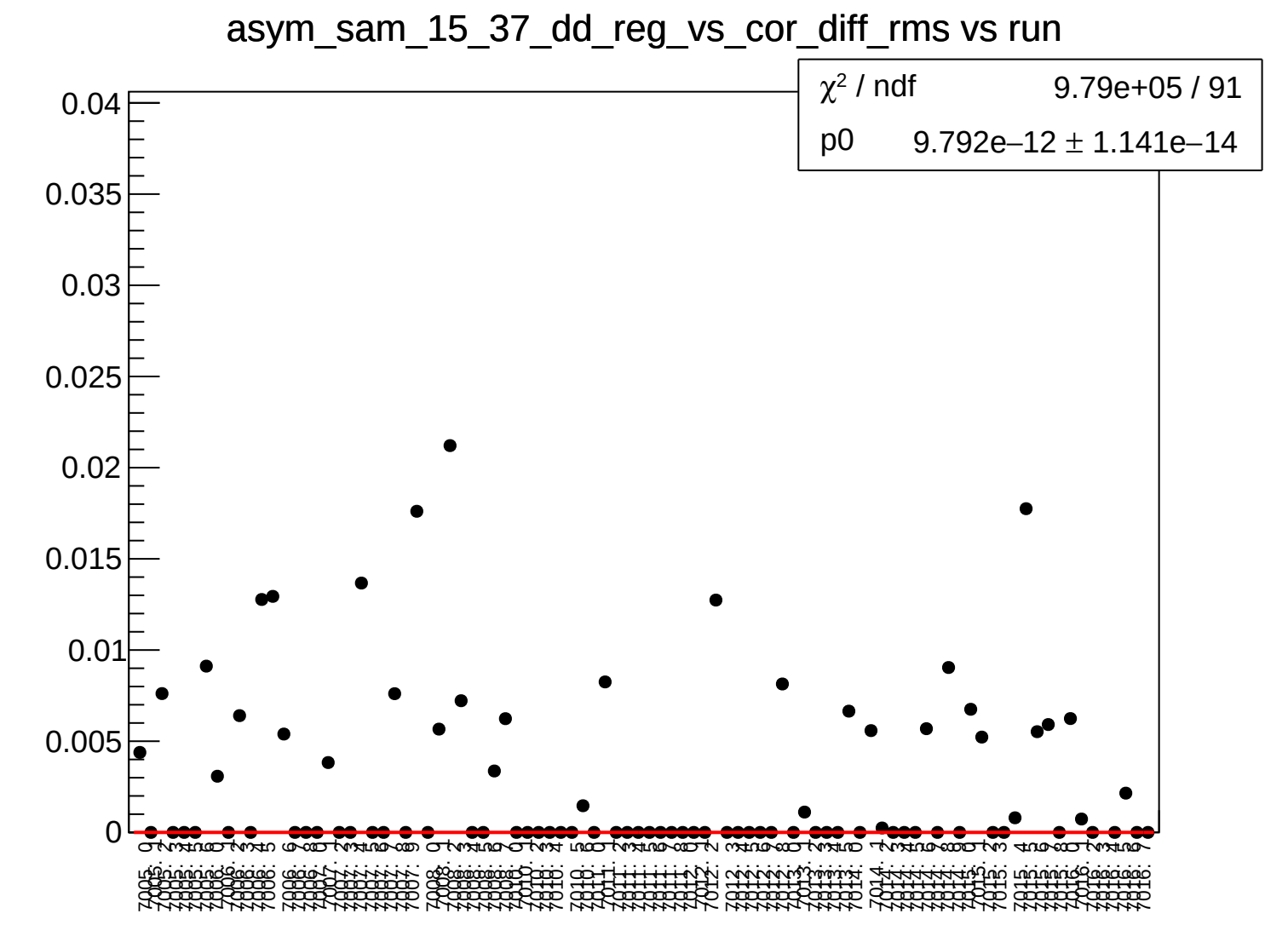

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2850 / 91
p0 352.3 ± 0.2692
420
400
380
360
340
320

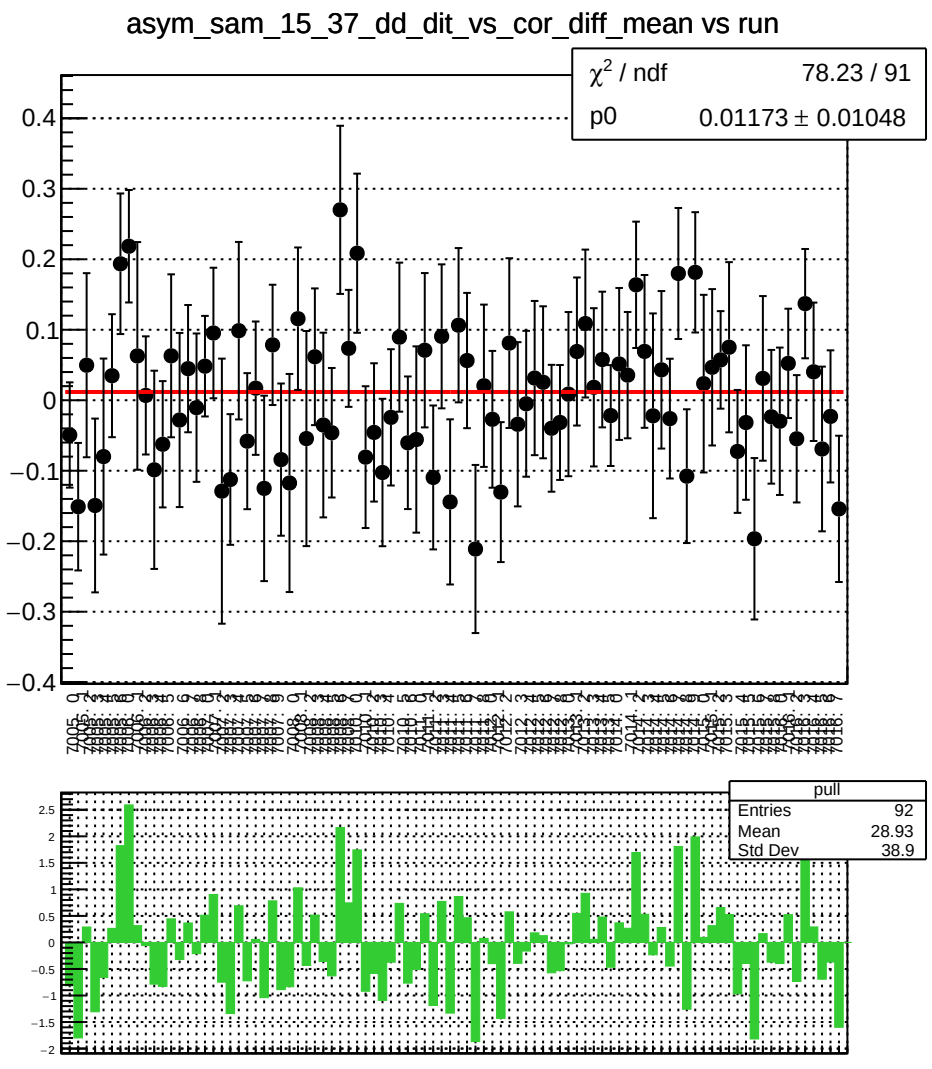

asym_sam_15_37_dd_mean vs run
χ² / ndf 74.62 / 91
p0 −296.3 ± 381.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 8.841
Std Dev 71.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

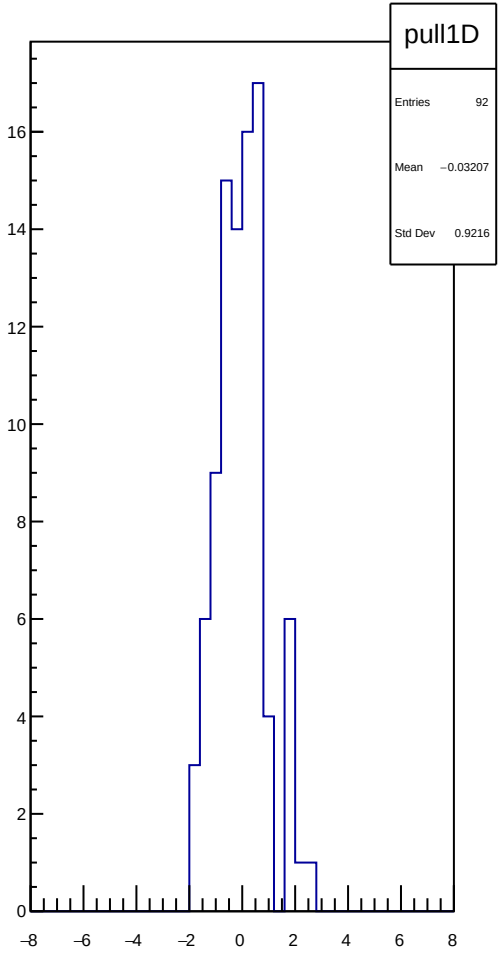

pull1D
Entries 92
Mean 0.01755
Std Dev 0.9004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

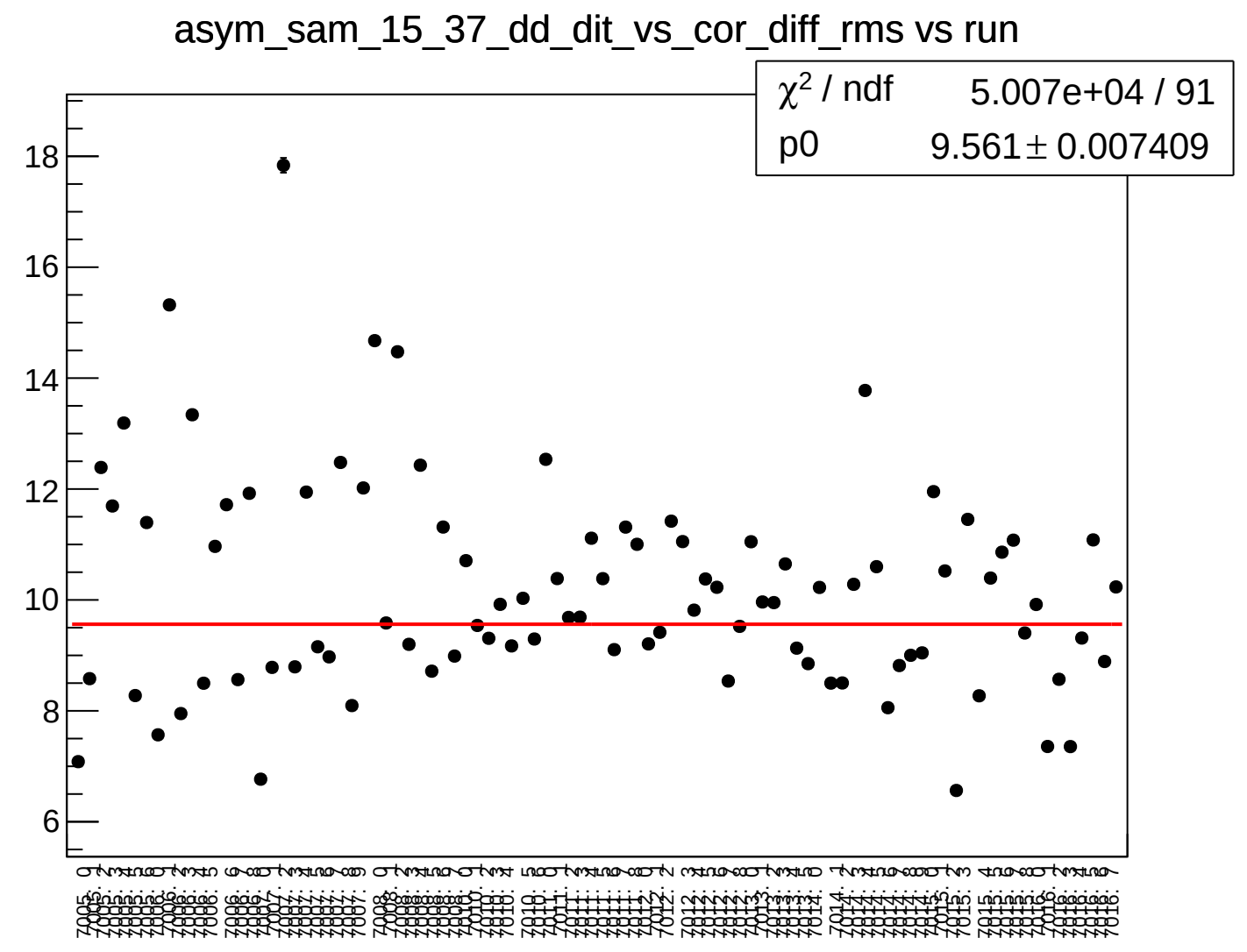

asym_sam_15_37_dd_rms vs run
χ² / ndf 4318 / 91
p0 352.5 ± 0.2695
420
400
380
360
340
320

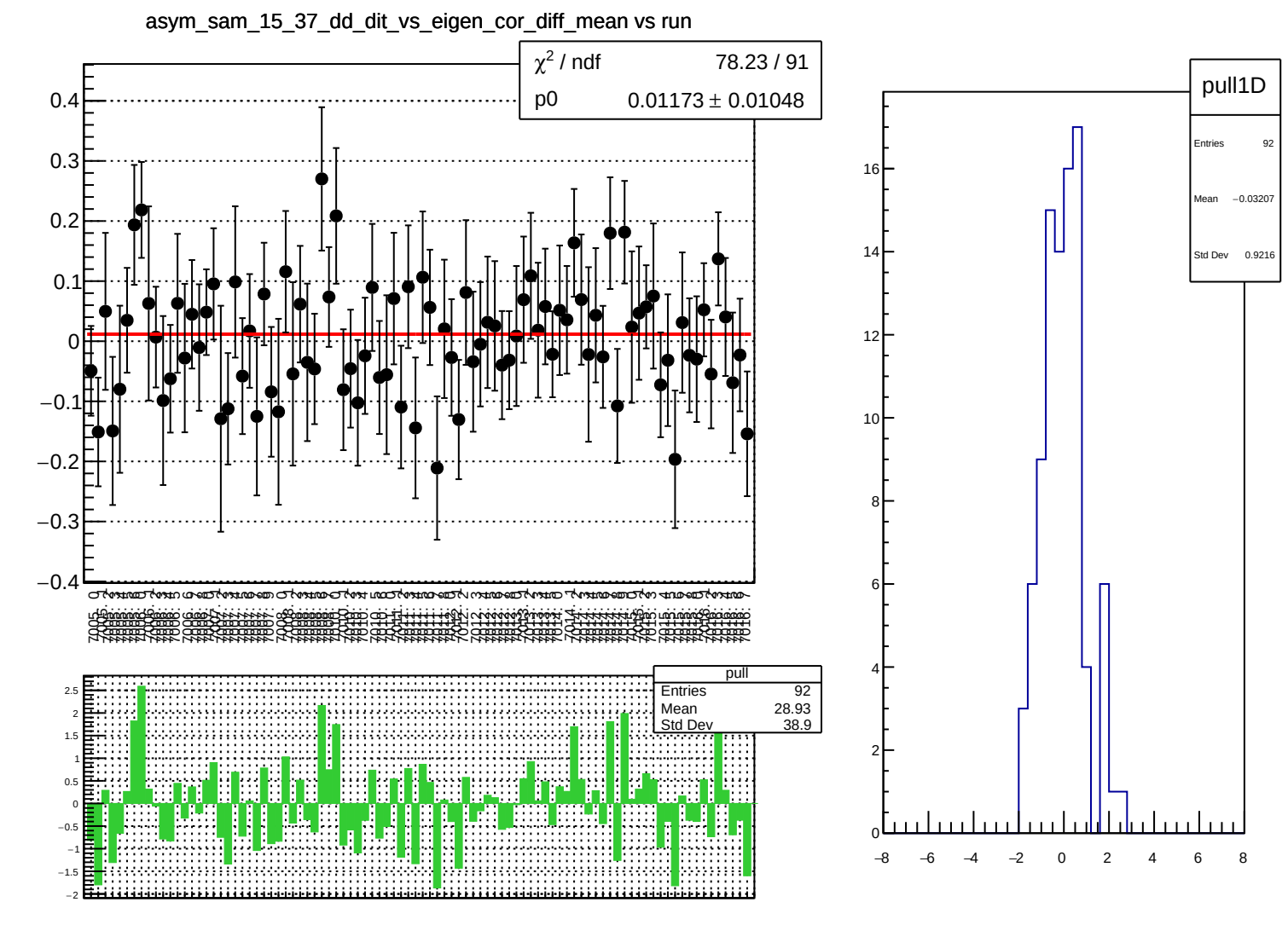

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 106.6 / 91
p0 1.753e−14 ± 1.614e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 37.11
Std Dev 31.08
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.2533
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

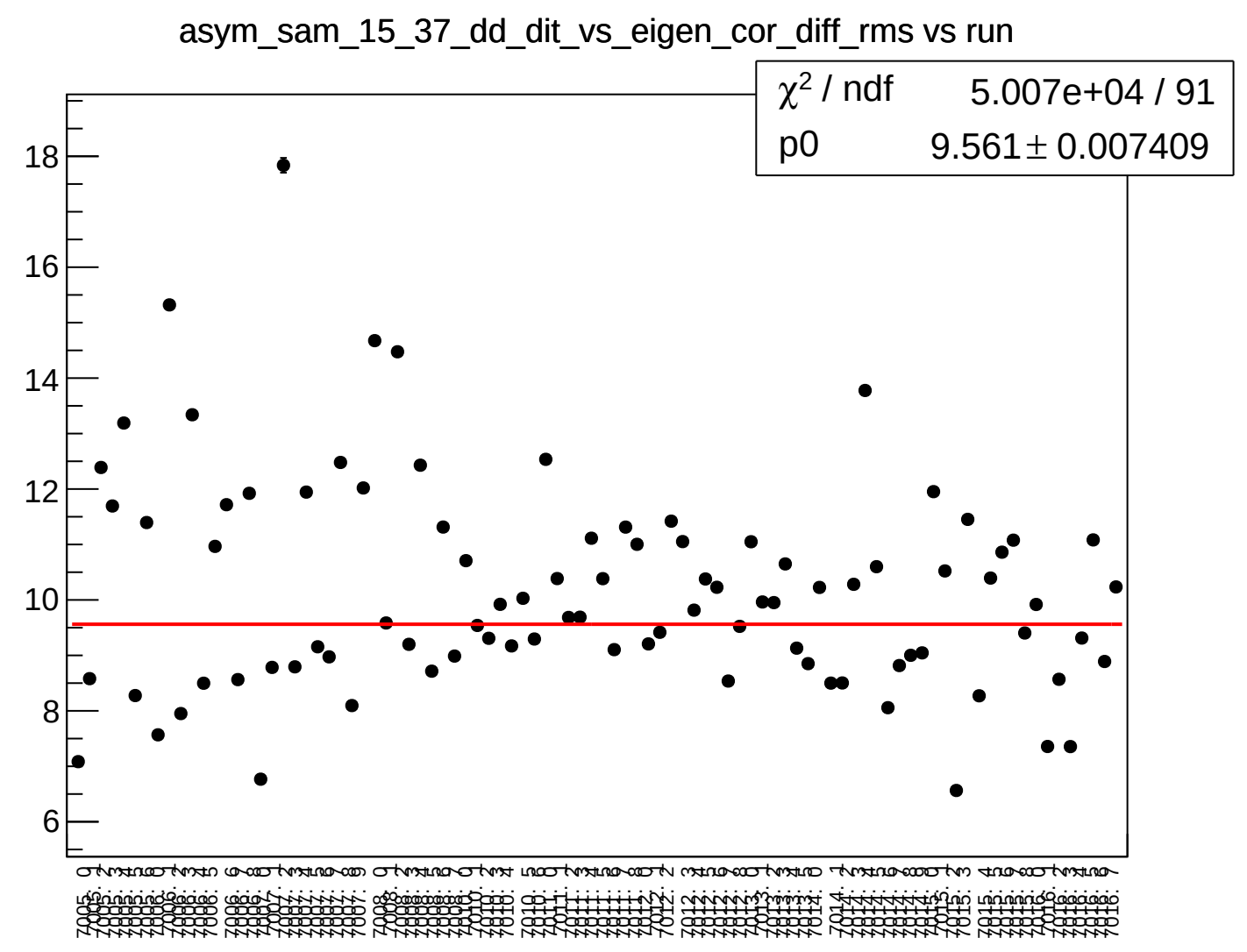

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.79e+05 / 91
p0 9.792e−12 ± 1.141e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

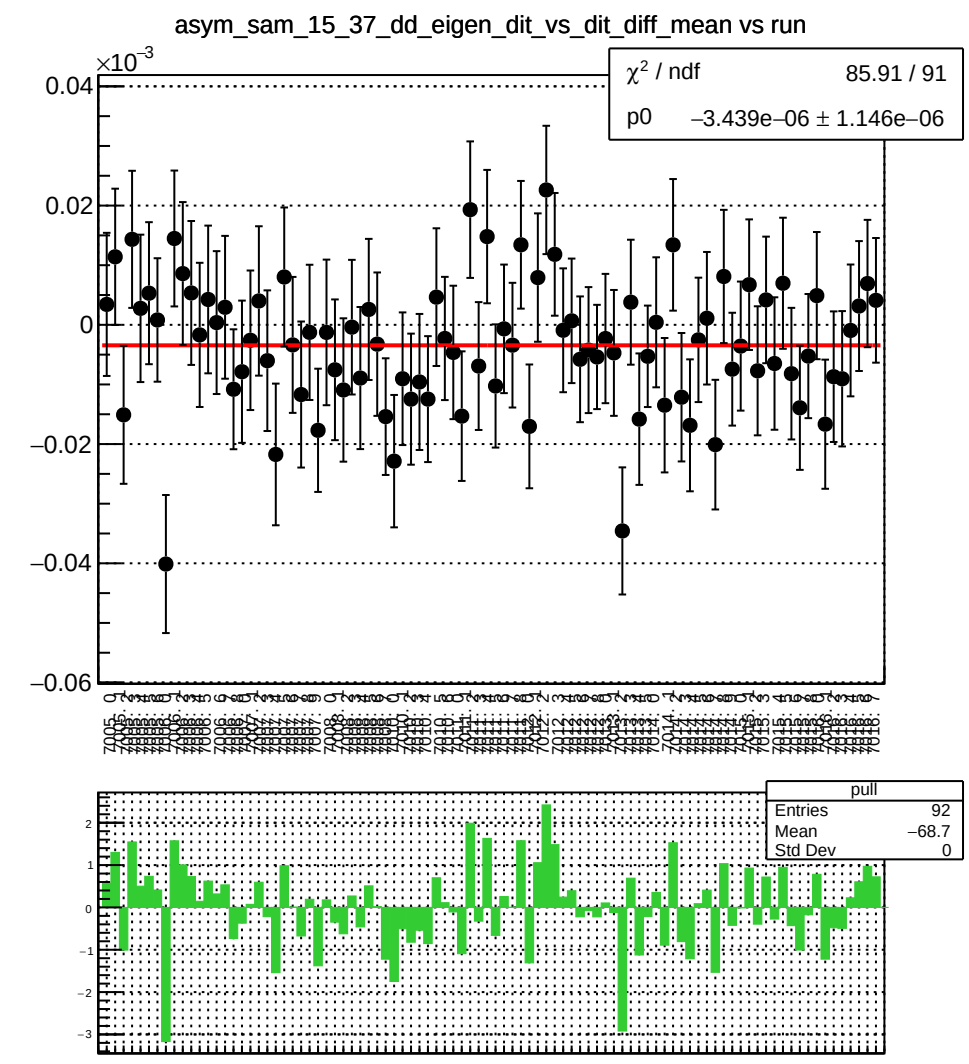

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.23 / 91
p0 0.01173 ± 0.01048
pull
Entries 92
Mean 28.93
Std Dev 38.9

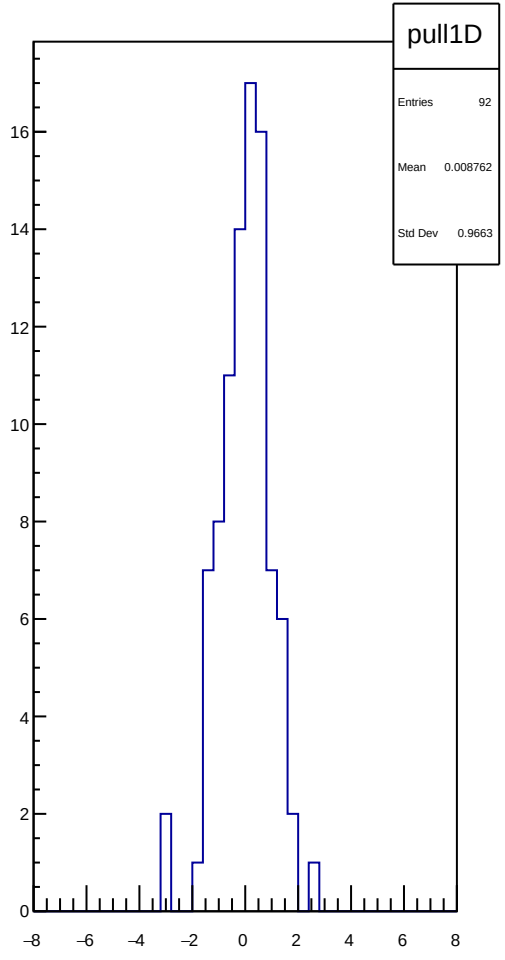

pull1D
Entries 92
Mean −0.03207
Std Dev 0.9216

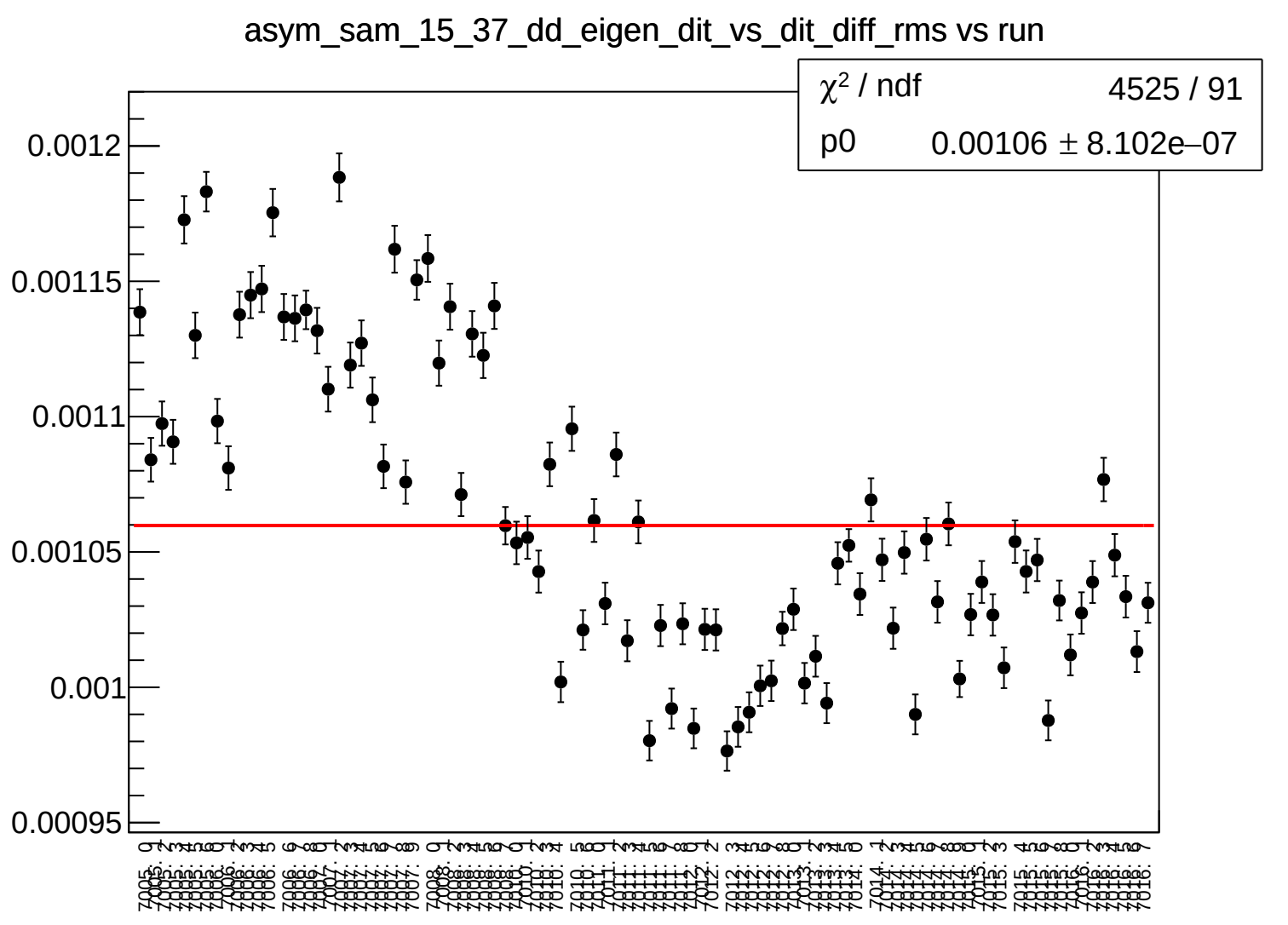

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.007e+04 / 91
p0 9.561 ± 0.007409
18
16
14
12
10
8
6

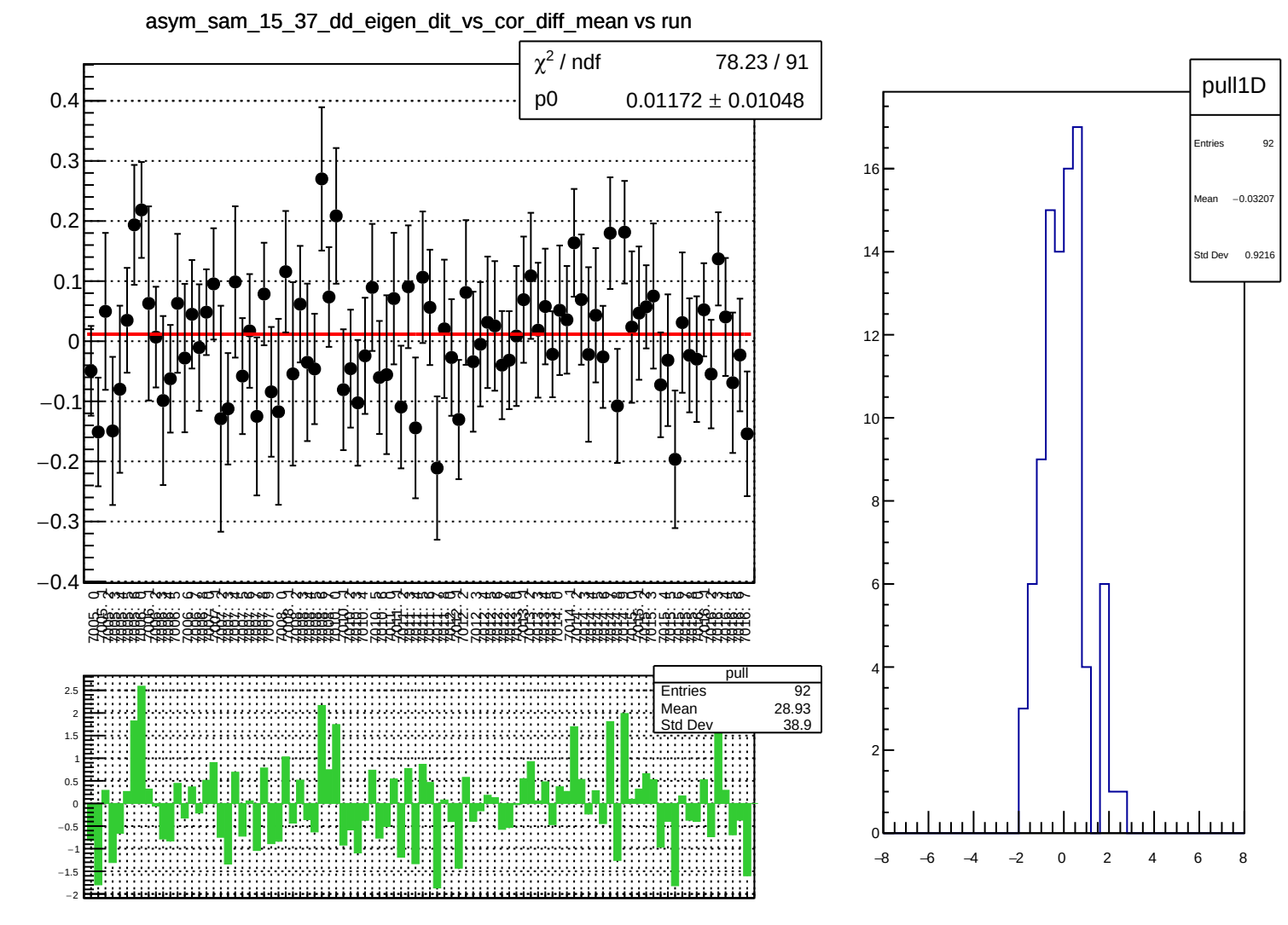

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.23 / 91
p0 0.01173 ± 0.01048
pull
Entries 92
Mean 28.93
Std Dev 38.9
pull1D
Entries 92
Mean −0.03207
Std Dev 0.9216

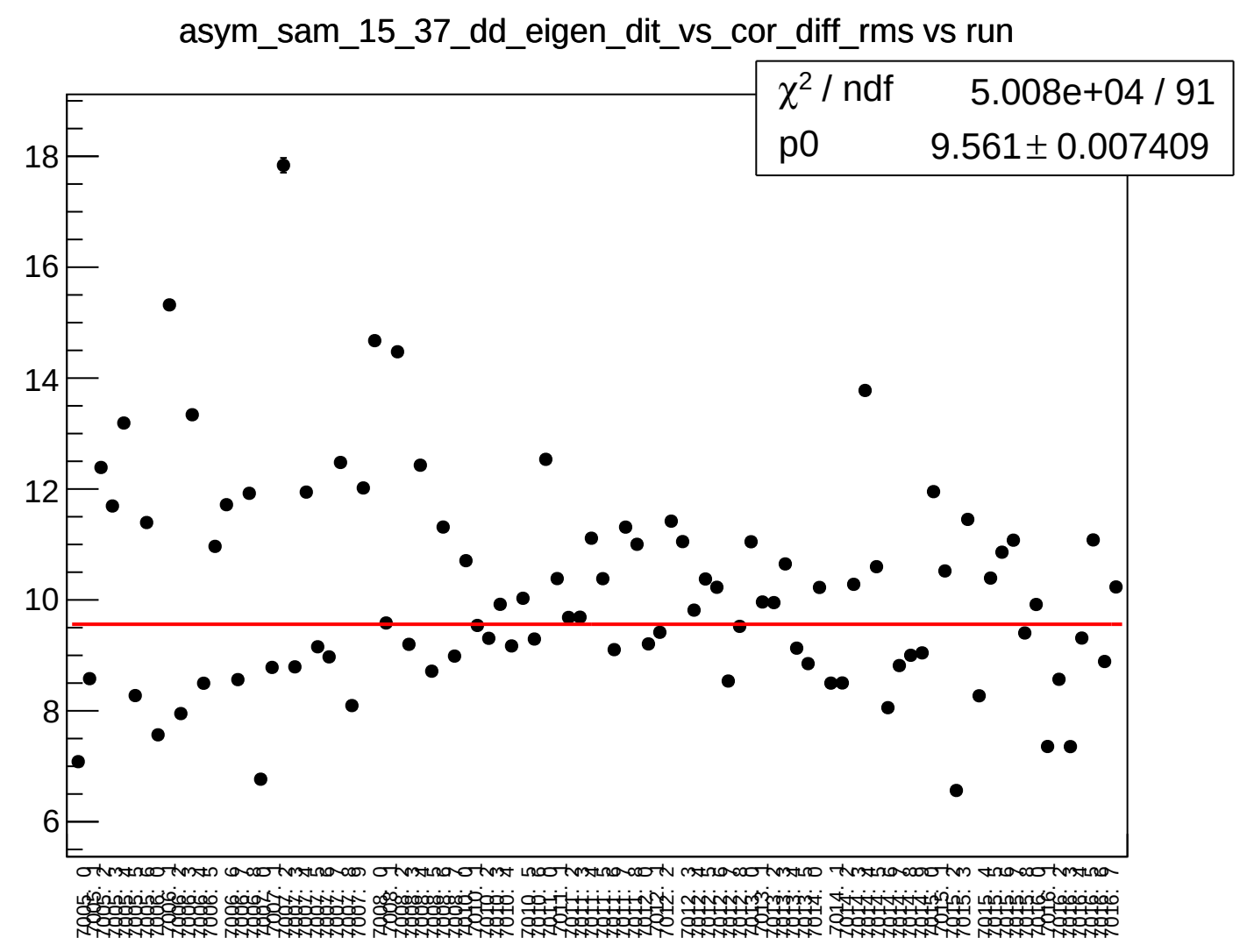

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.007e+04 / 91
p0 9.561 ± 0.007409
18
16
14
12
10
8
6

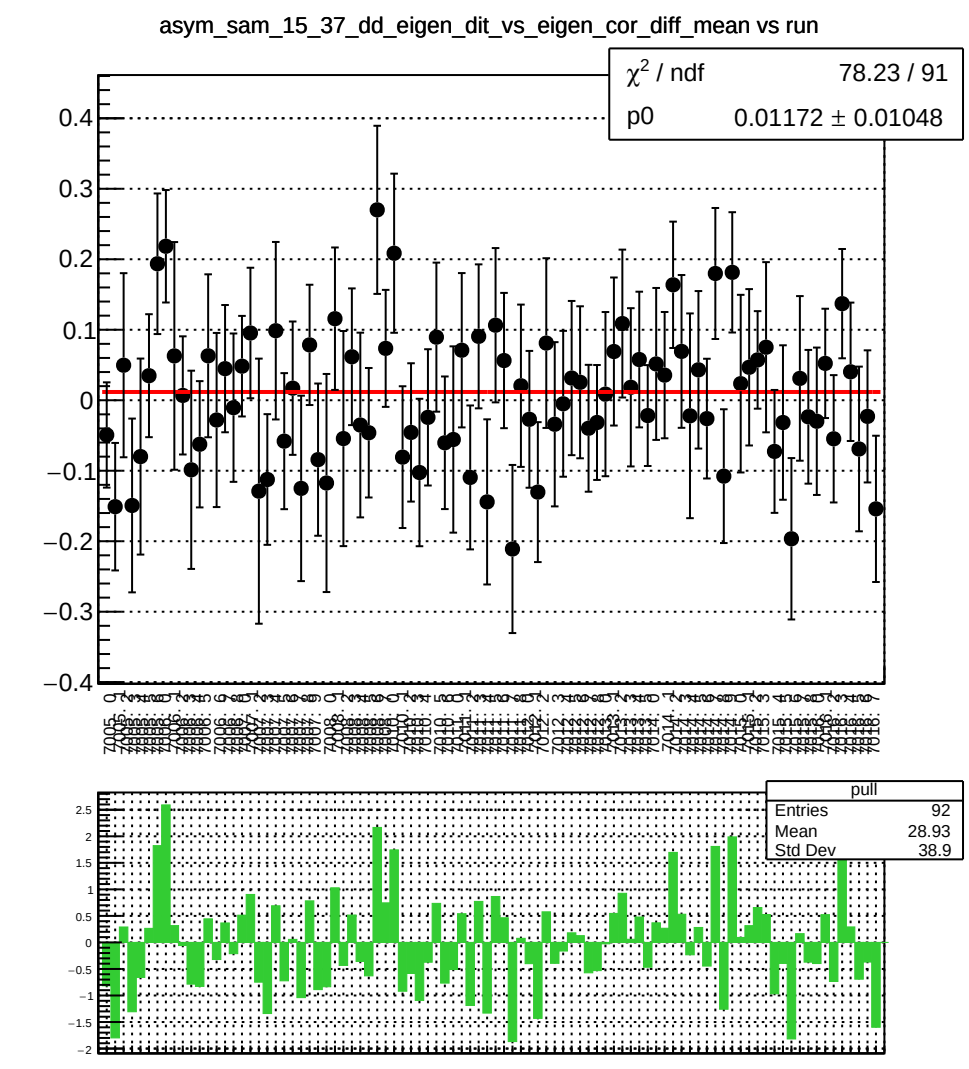

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.91 / 91
p0 −3.439e−06 ± 1.146e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean −68.7
Std Dev 0
2
1
0
−1
−2
−3

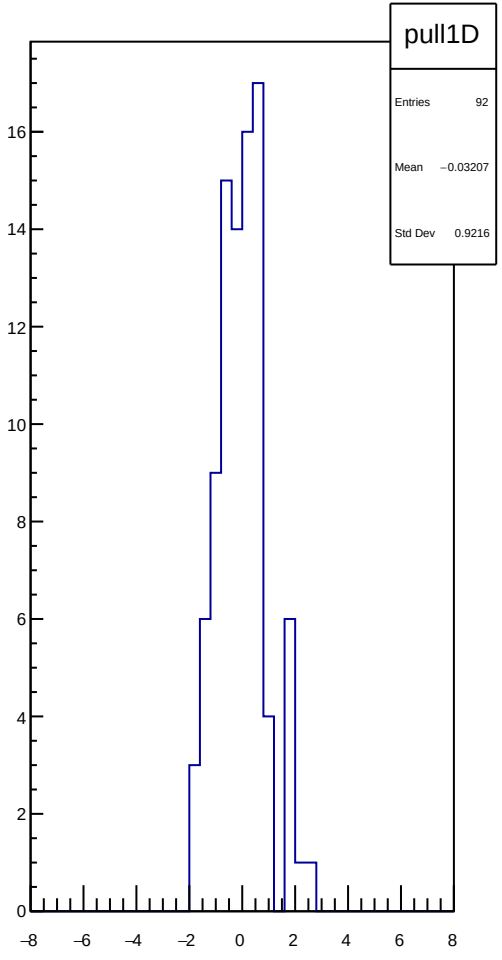

pull1D
Entries 92
Mean 0.008762
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

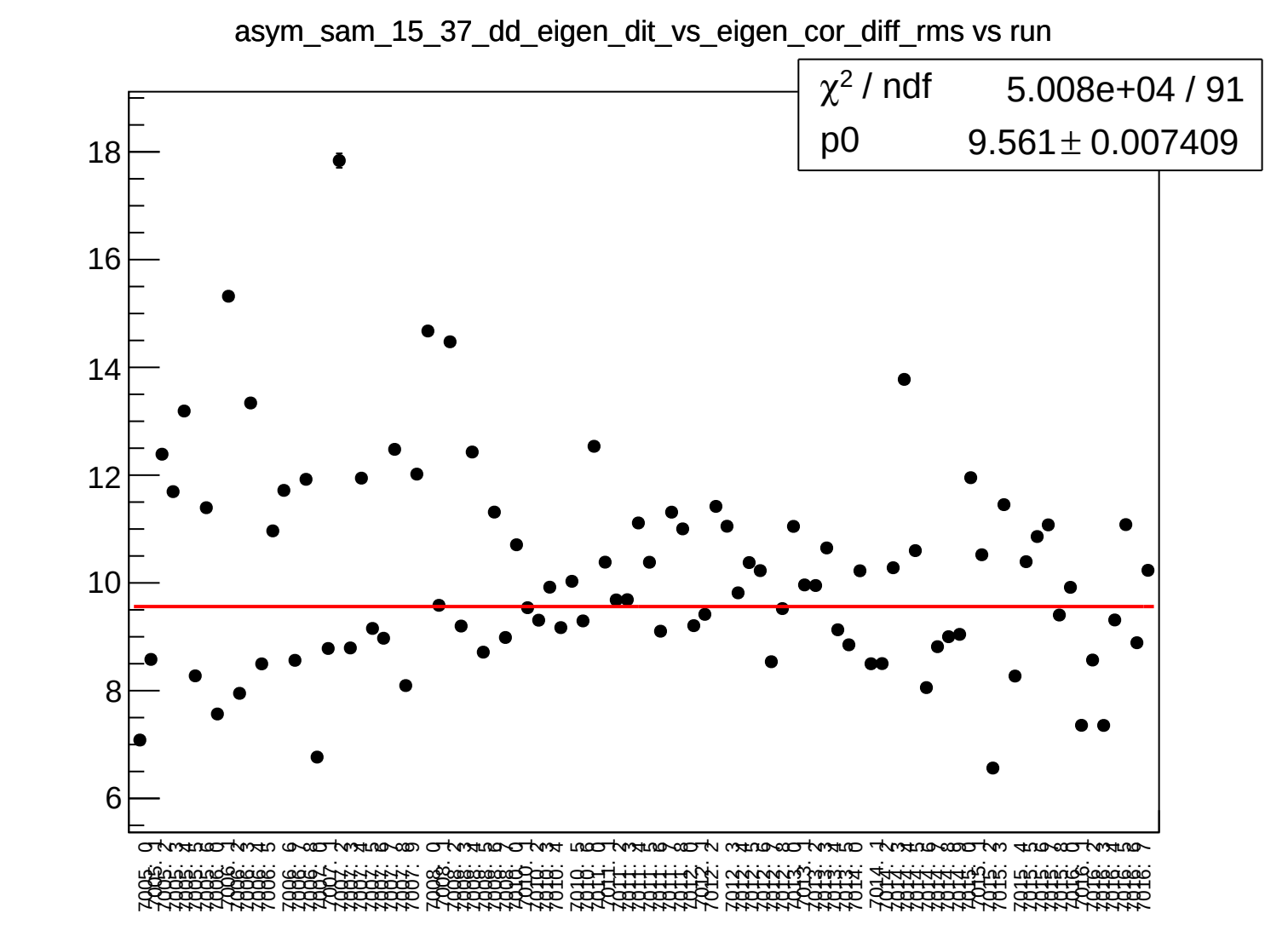

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4525 / 91
p0 0.00106 ± 8.102e–07
0.0012
0.00115
0.0011
0.00105
0.001
0.00095

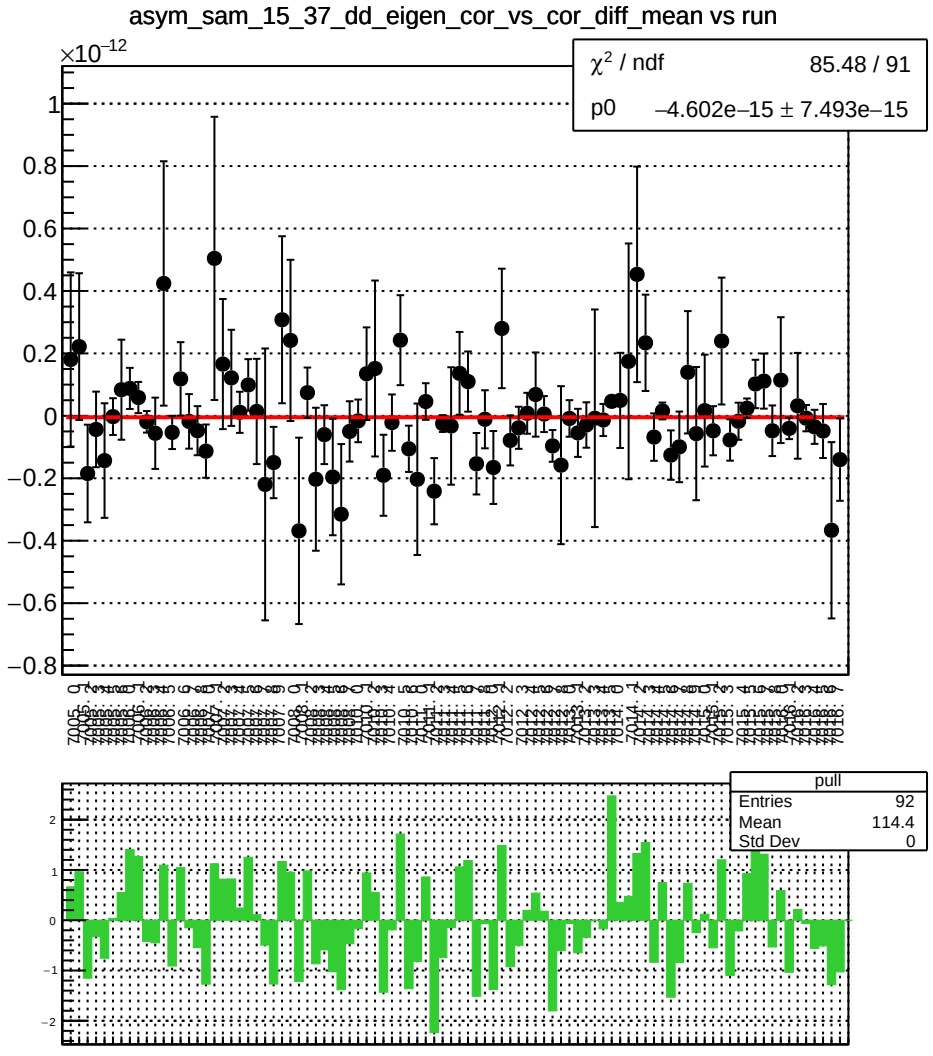

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.23 / 91
p0 0.01172 ± 0.01048
pull
Entries 92
Mean 28.93
Std Dev 38.9
pull1D
Entries 92
Mean −0.03207
Std Dev 0.9216

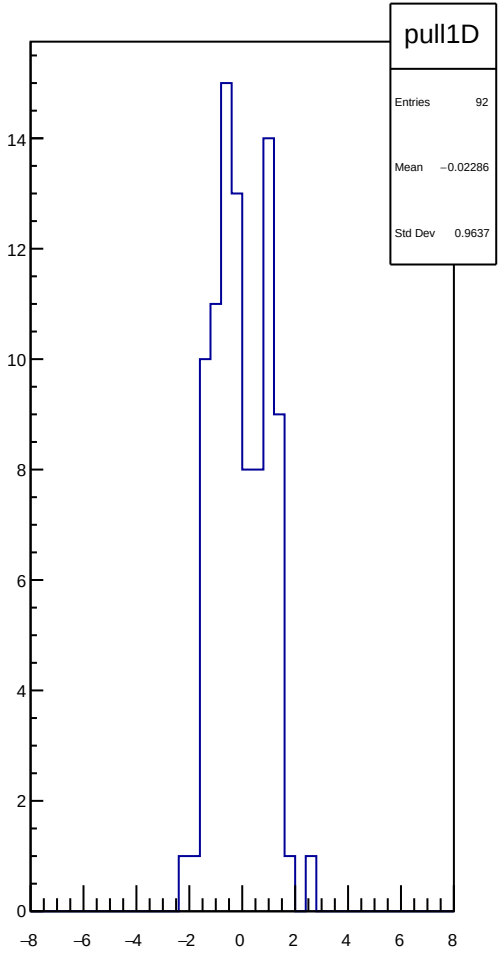

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.008e+04 / 91
p0 9.561 ± 0.007409
18
16
14
12
10
8
6

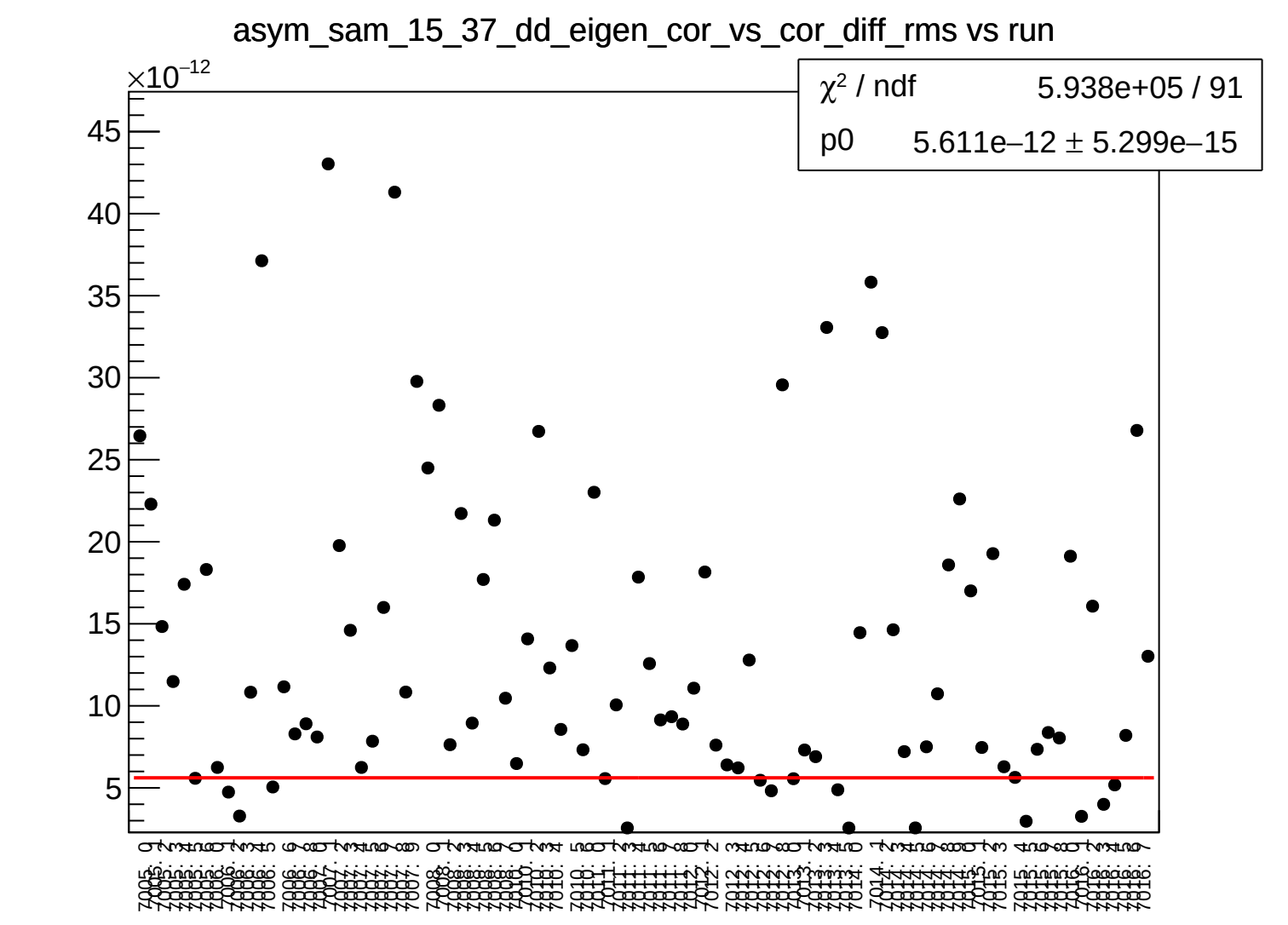

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.23 / 91
p0 0.01172 ± 0.01048
pull
Entries 92
Mean 28.93
Std Dev 38.9

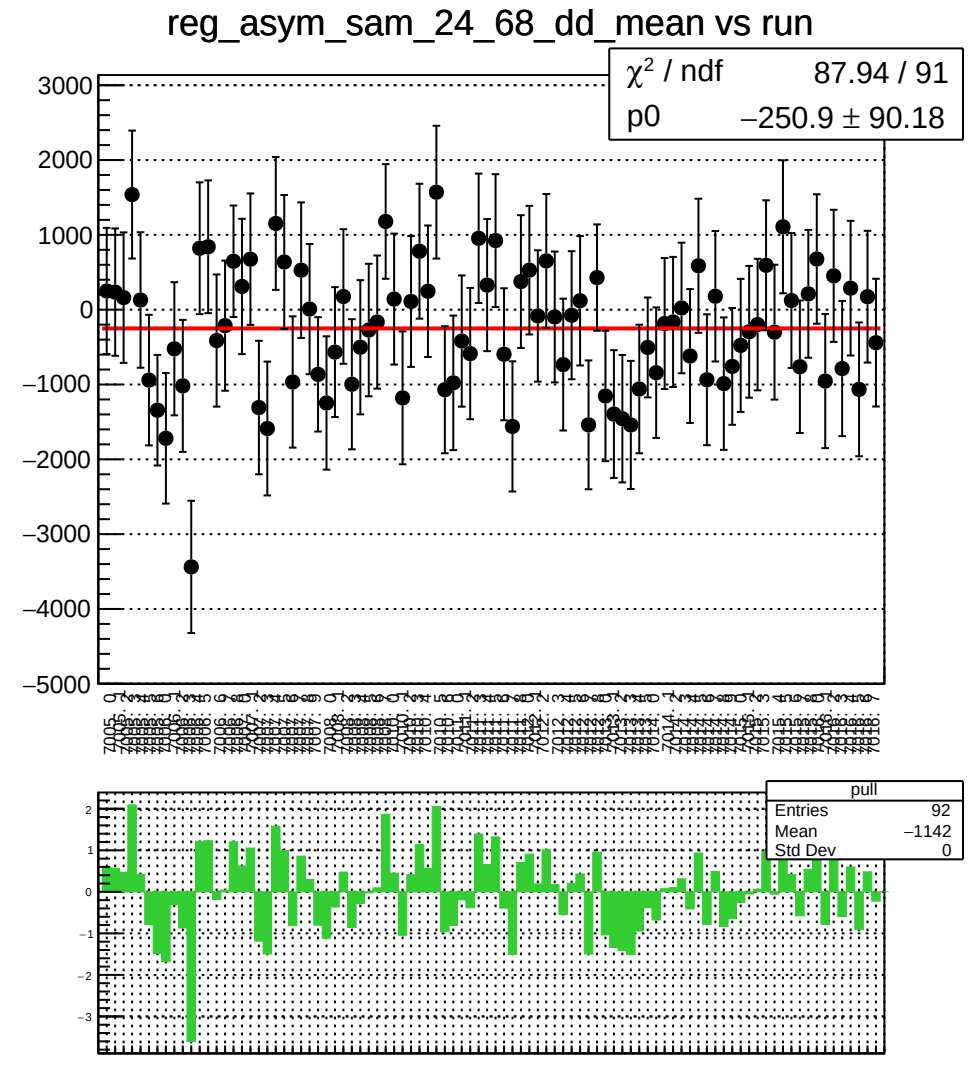

pull1D
Entries 92
Mean −0.03207
Std Dev 0.9216

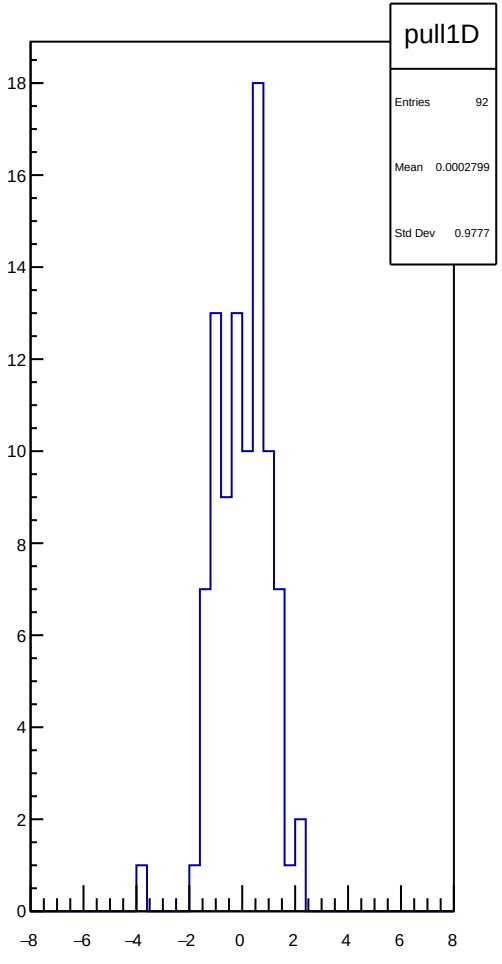

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.008e+04 / 91
p0 9.561 ± 0.007409
18
16
14
12
10
8
6

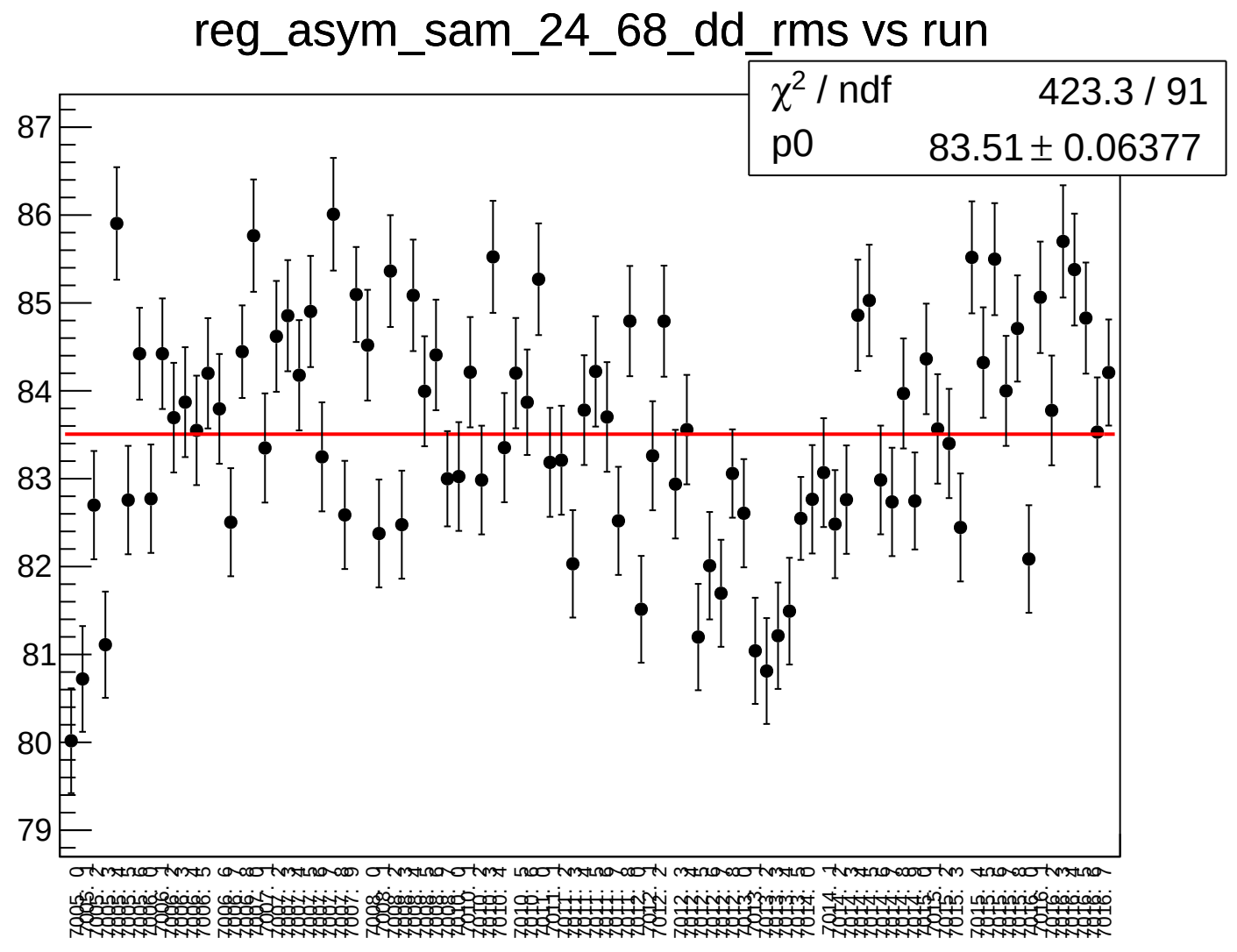

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.48 / 91
p0 −4.602e−15 ± 7.493e−15
pull
Entries 92
Mean 114.4
Std Dev 0

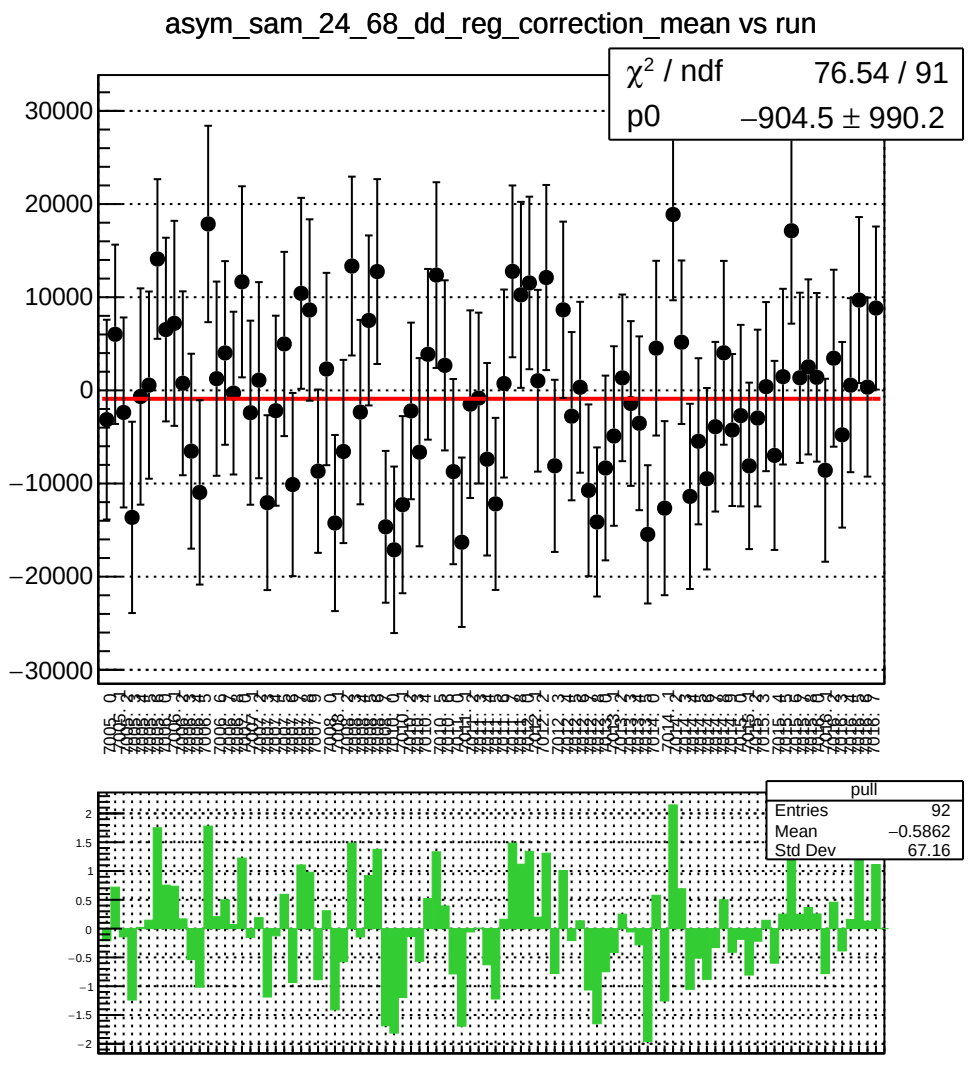

pull1D
Entries 92
Mean −0.02286
Std Dev 0.9637

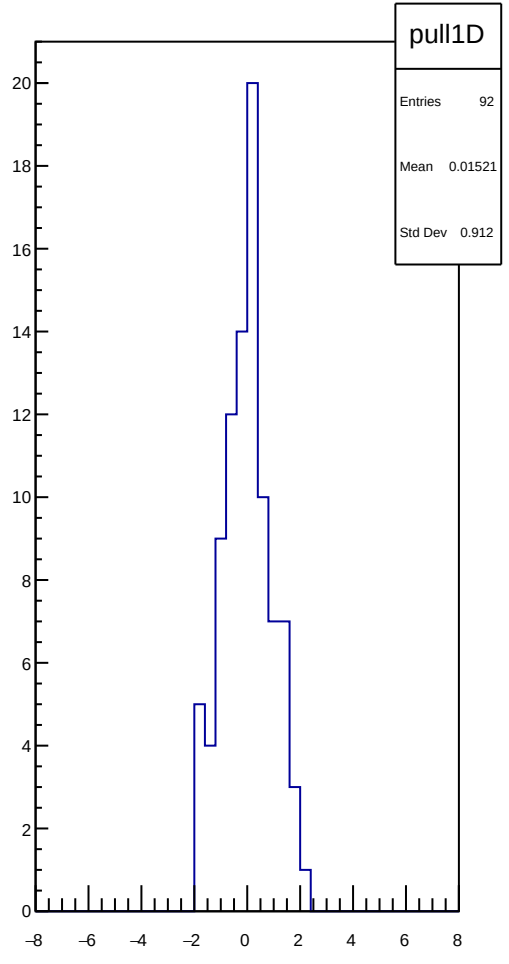

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.938e+05 / 91
p0 5.611e−12 ± 5.299e−15
45
40
35
30
25
20
15
10
5

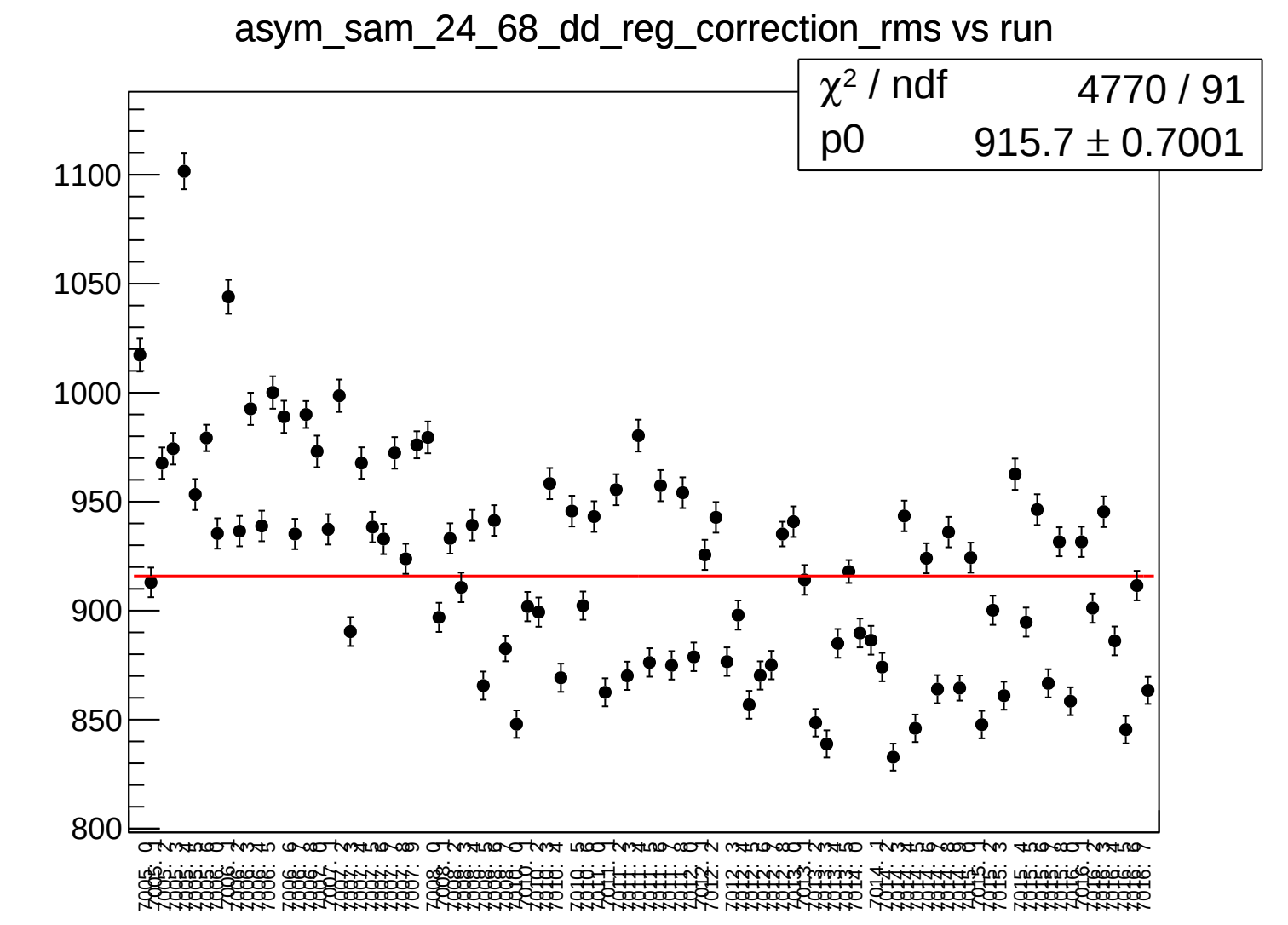

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 87.94 / 91
p0 −250.9 ± 90.18
pull
Entries 92
Mean −1142
Std Dev 0

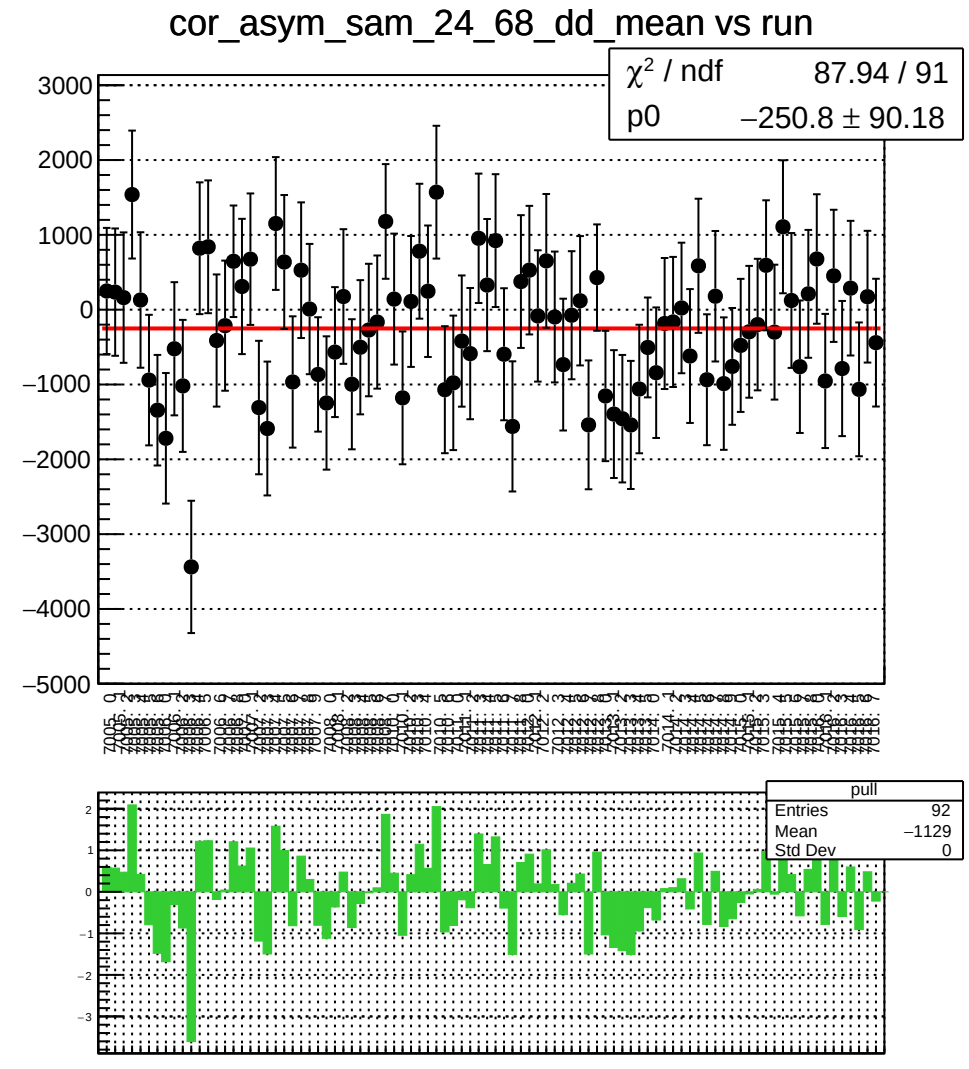

pull1D
Entries 92
Mean 0.0002799
Std Dev 0.9777

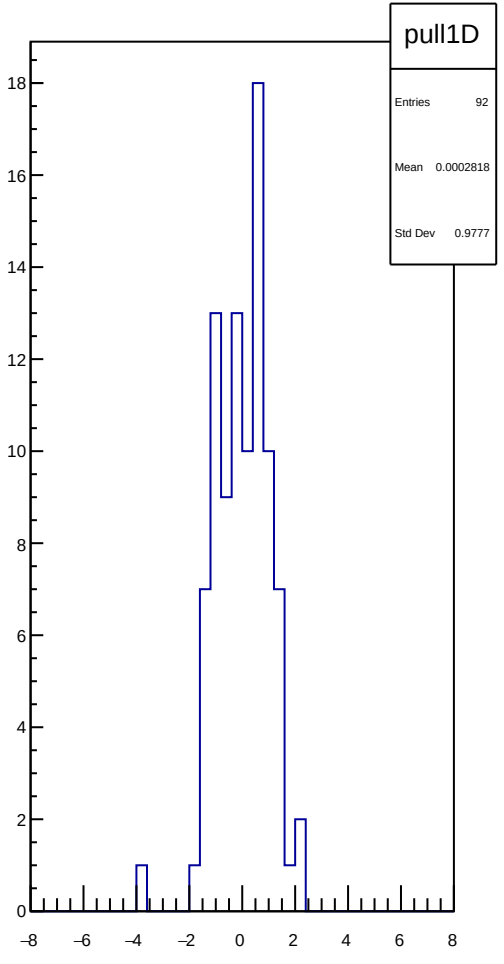

reg_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 423.3 / 91
p0 83.51 ± 0.06377
87
86
85
84
83
82
81
80
79

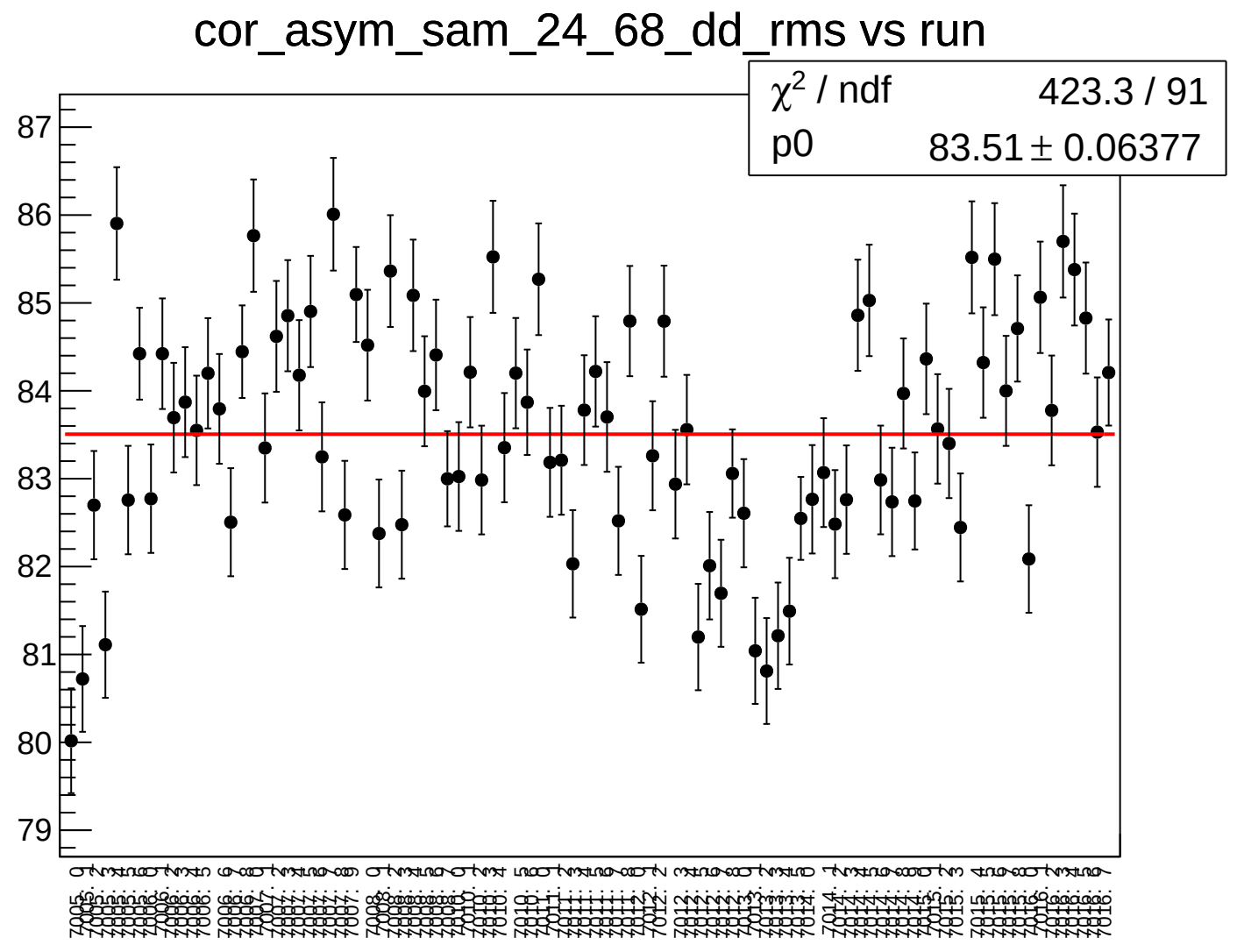

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 76.54 / 91
p0 −904.5 ± 990.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −0.5862
Std Dev 67.16
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

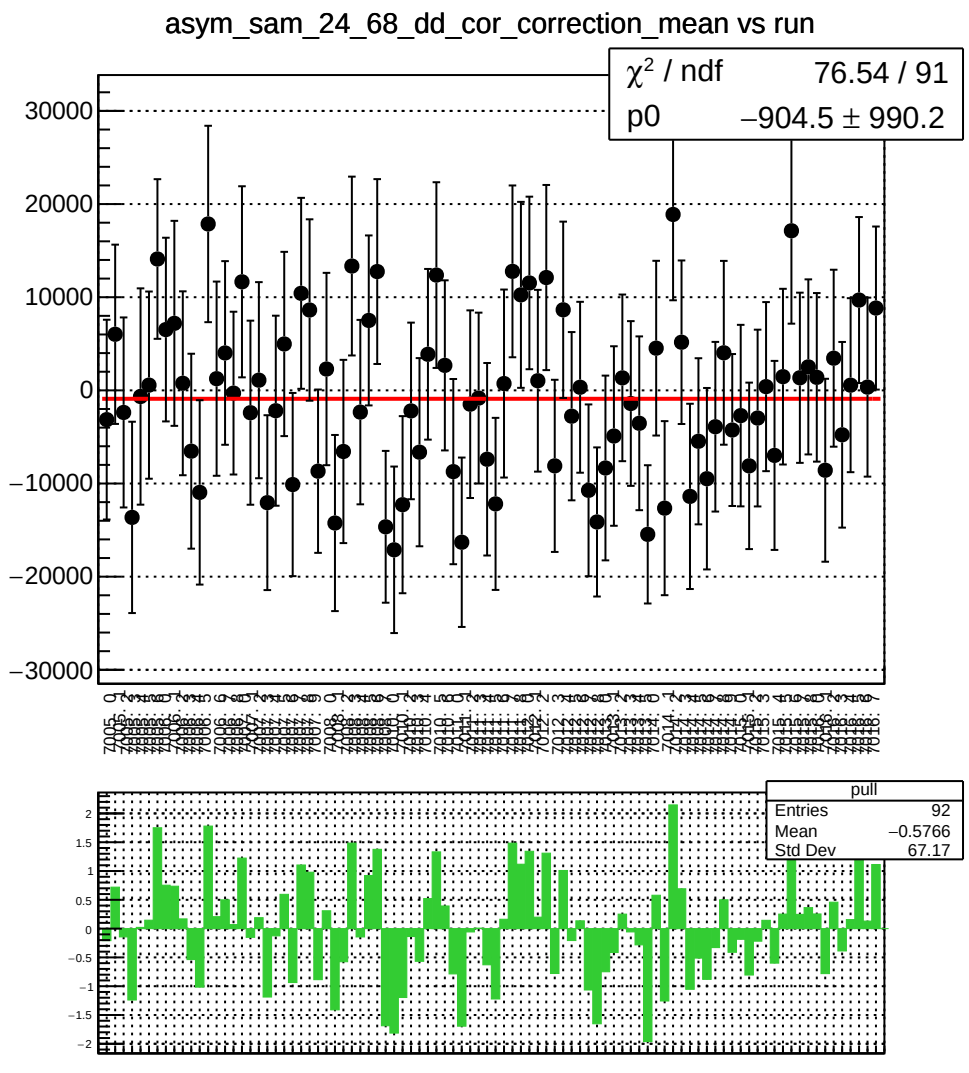

pull1D
Entries 92
Mean 0.01521
Std Dev 0.912
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

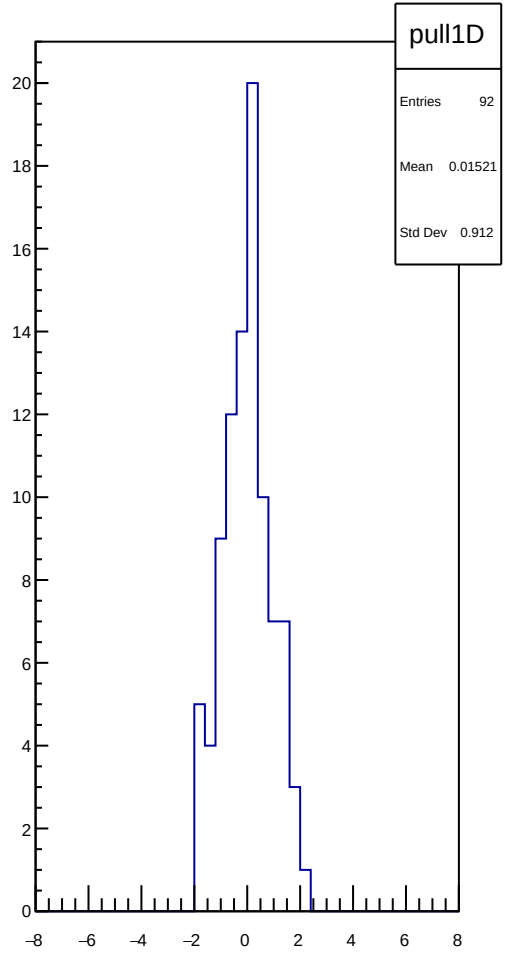

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4770 / 91
p0 915.7 ± 0.7001
1100
1050
1000
950
900
850
800

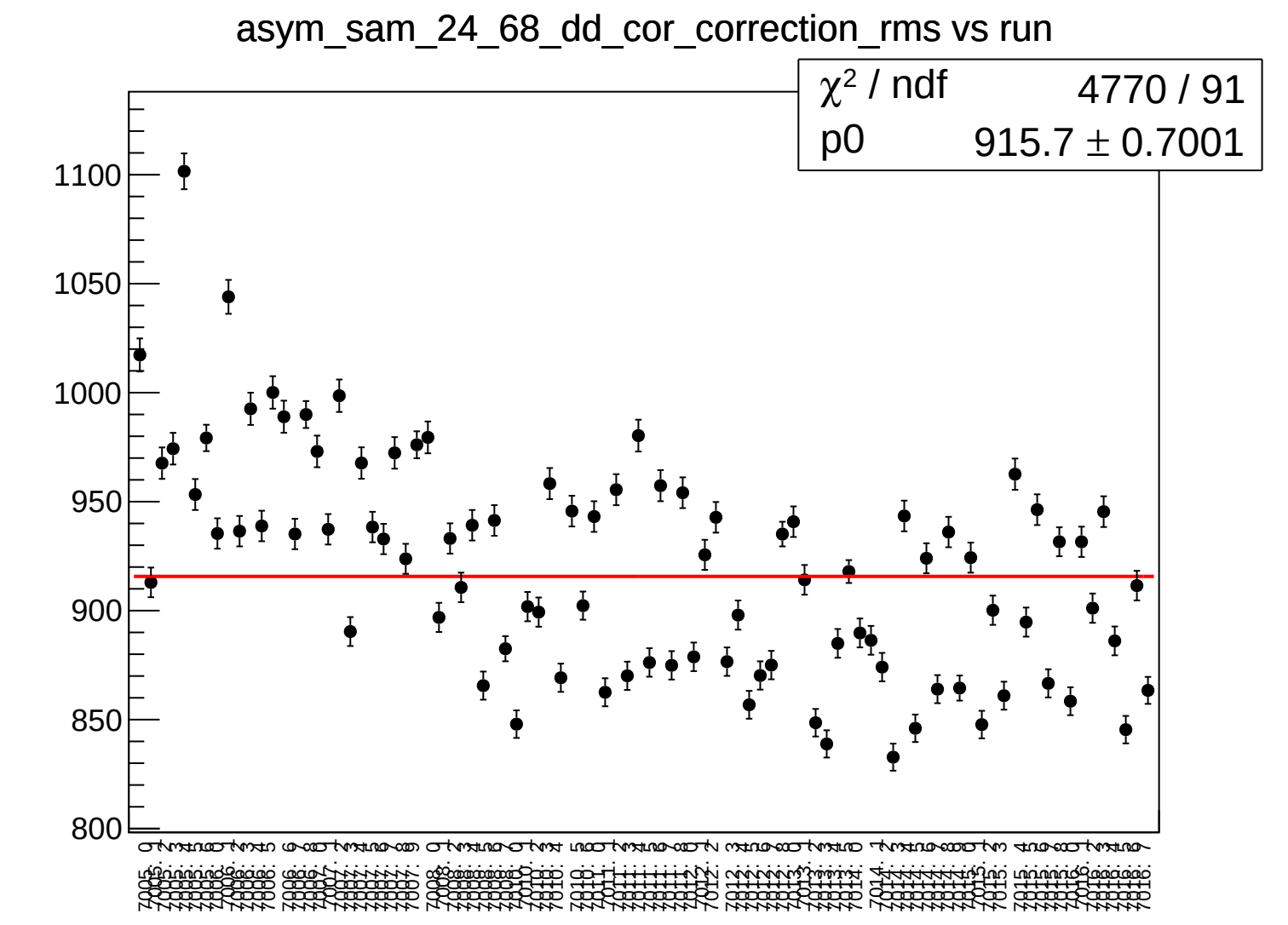

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 87.94 / 91
p0 −250.8 ± 90.18
pull
Entries 92
Mean −1129
Std Dev 0

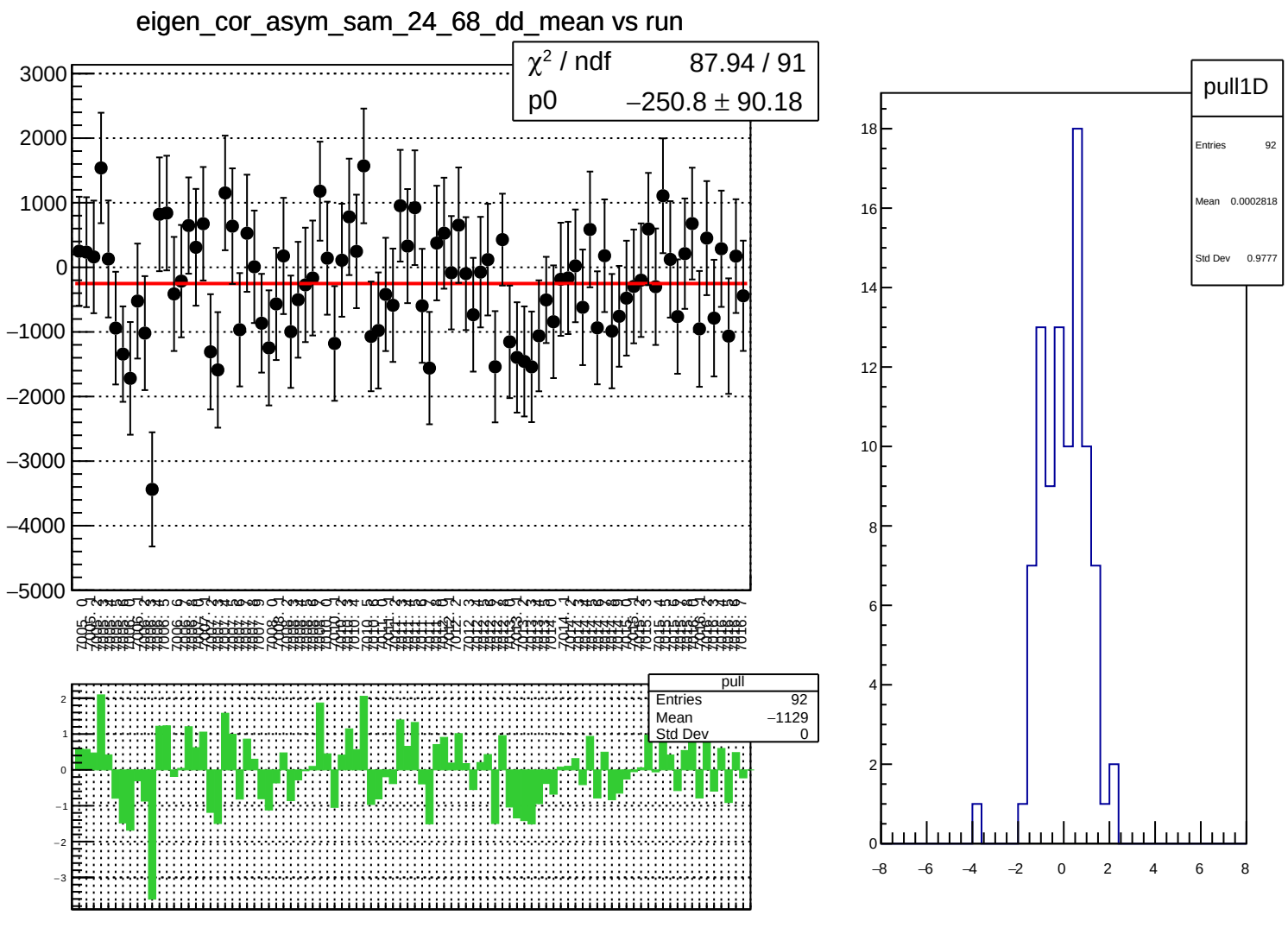

pull1D
Entries 92
Mean 0.0002818
Std Dev 0.9777

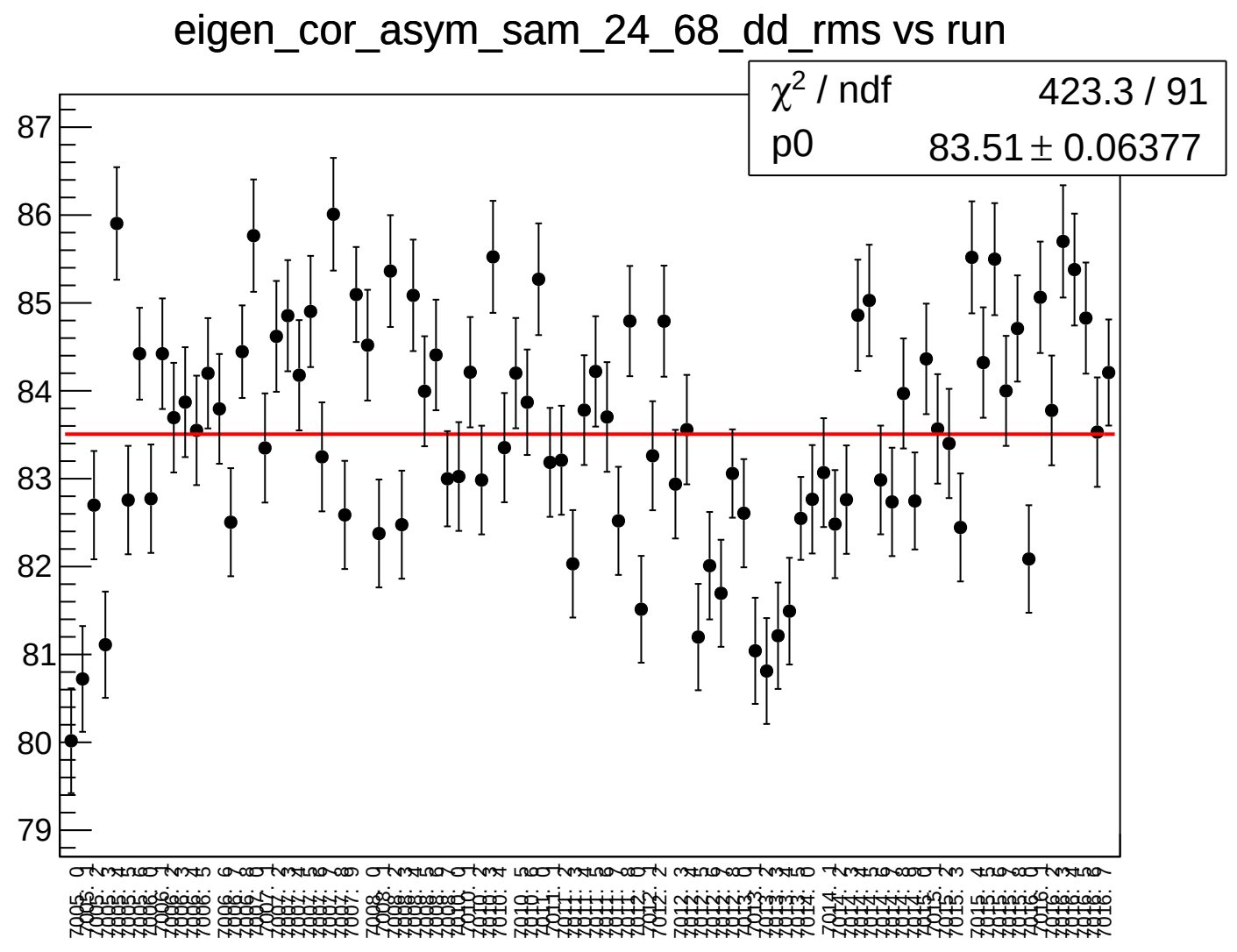

cor_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 423.3 / 91
p0 83.51 ± 0.06377
87
86
85
84
83
82
81
80
79

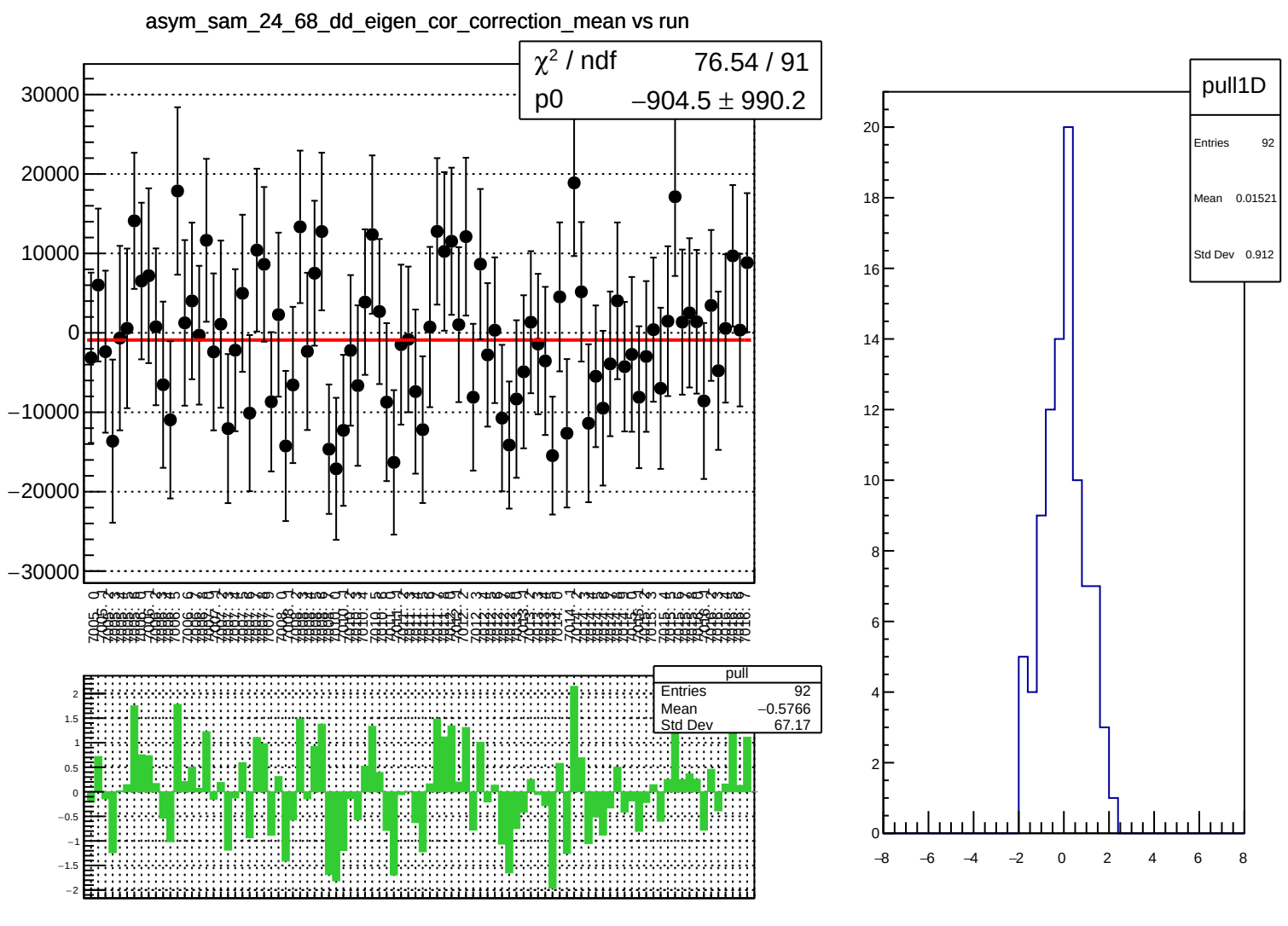

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 76.54 / 91
p0 −904.5 ± 990.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −0.5766
Std Dev 67.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

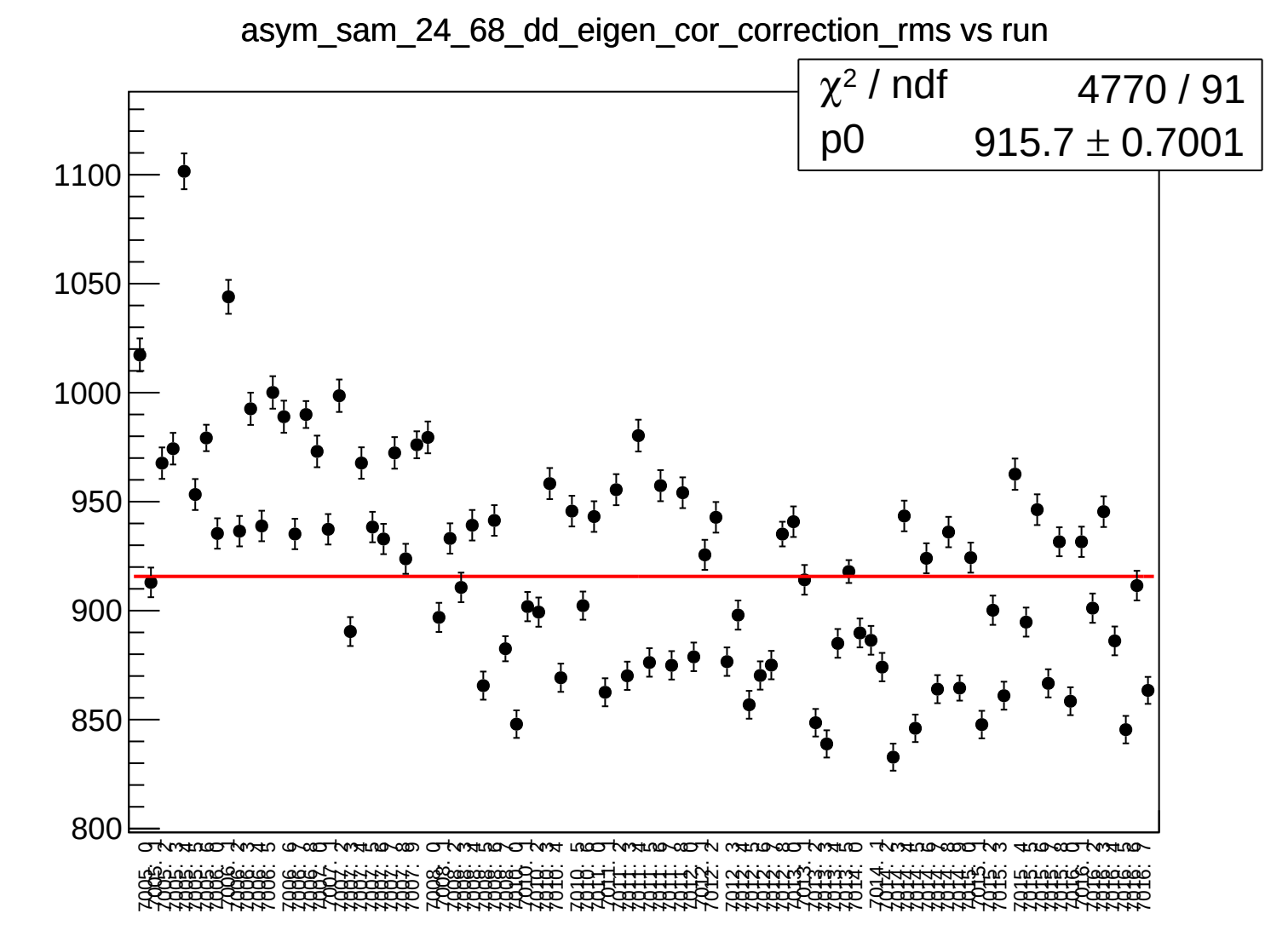

pull1D
Entries 92
Mean 0.01521
Std Dev 0.912
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

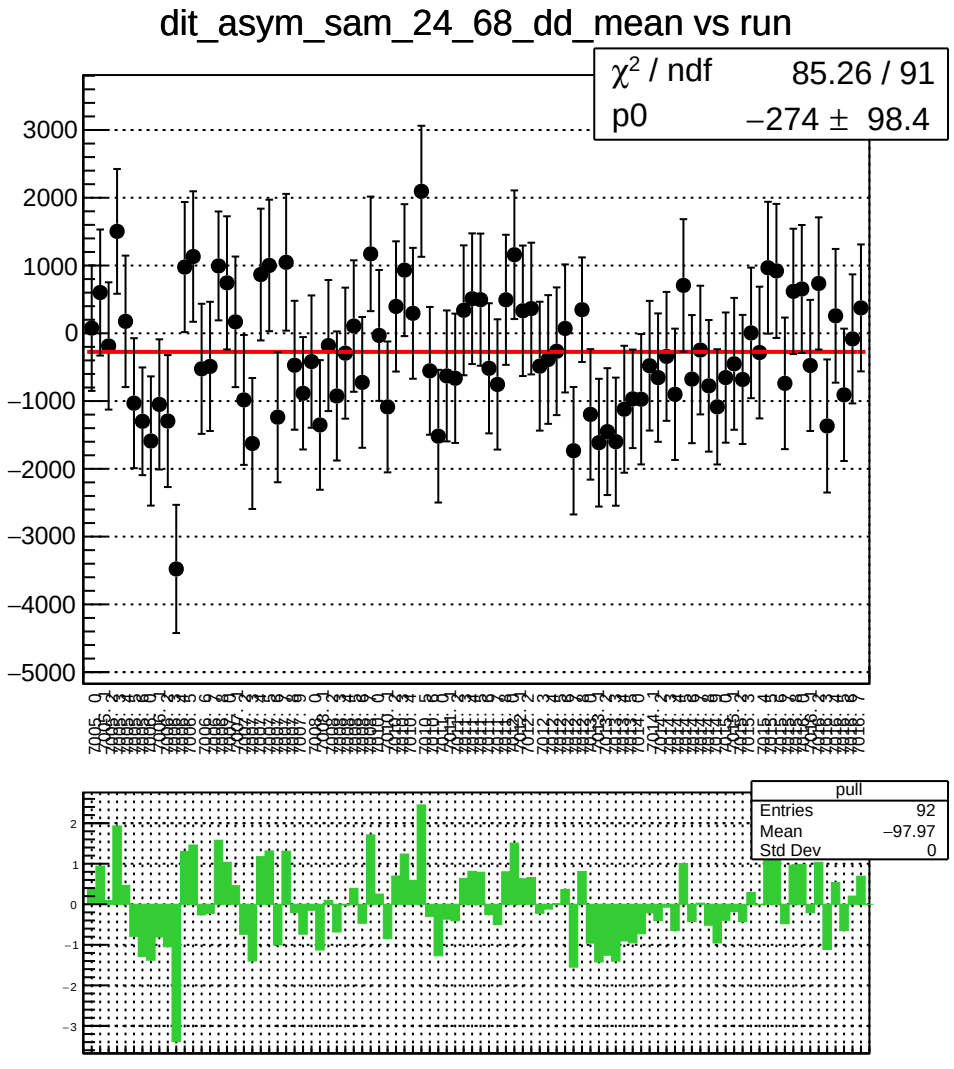

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4770 / 91
p0 915.7 ± 0.7001
1100
1050
1000
950
900
850
800

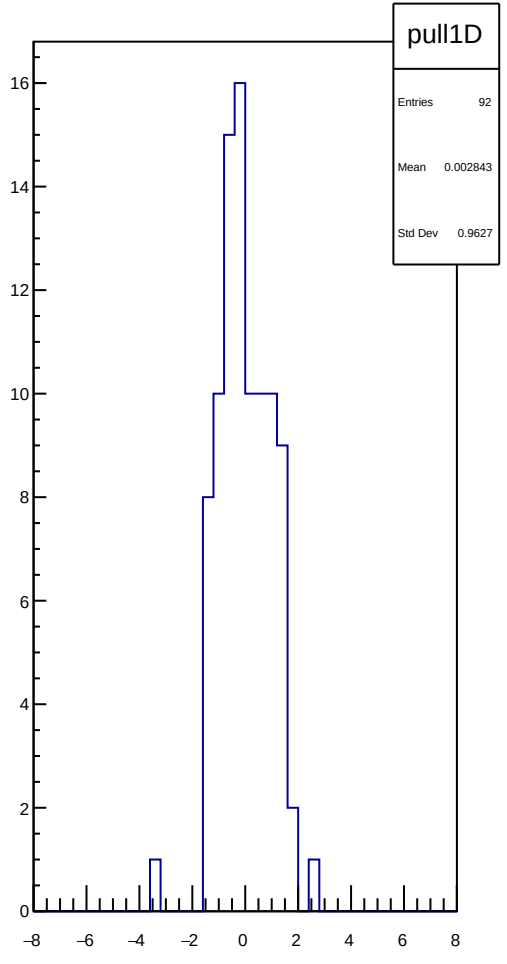

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 87.94 / 91
p0 −250.8 ± 90.18
pull
Entries 92
Mean −1129
Std Dev 0
pull1D
Entries 92
Mean 0.0002818
Std Dev 0.9777

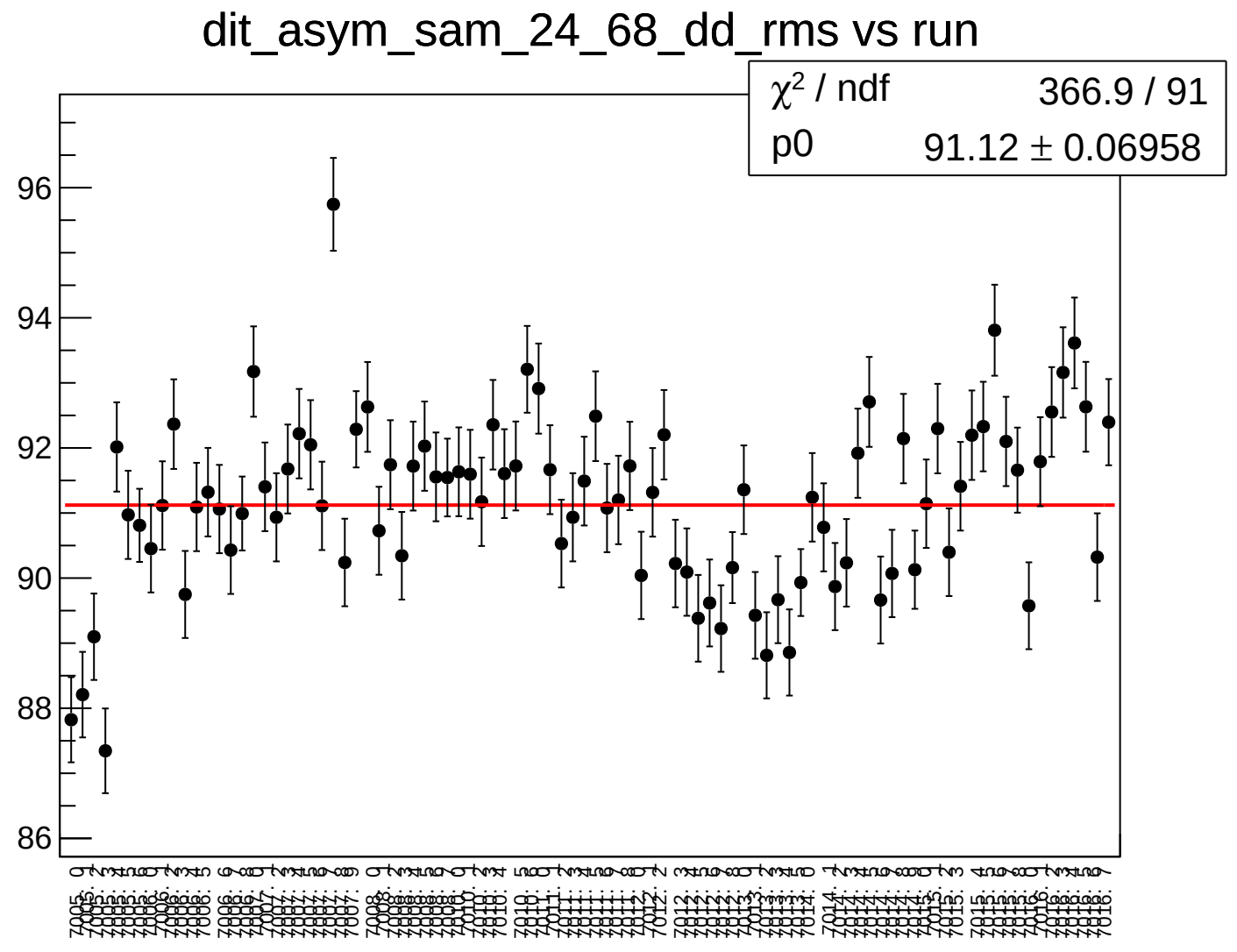

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 423.3 / 91
p0 83.51 ± 0.06377
87
86
85
84
83
82
81
80
79

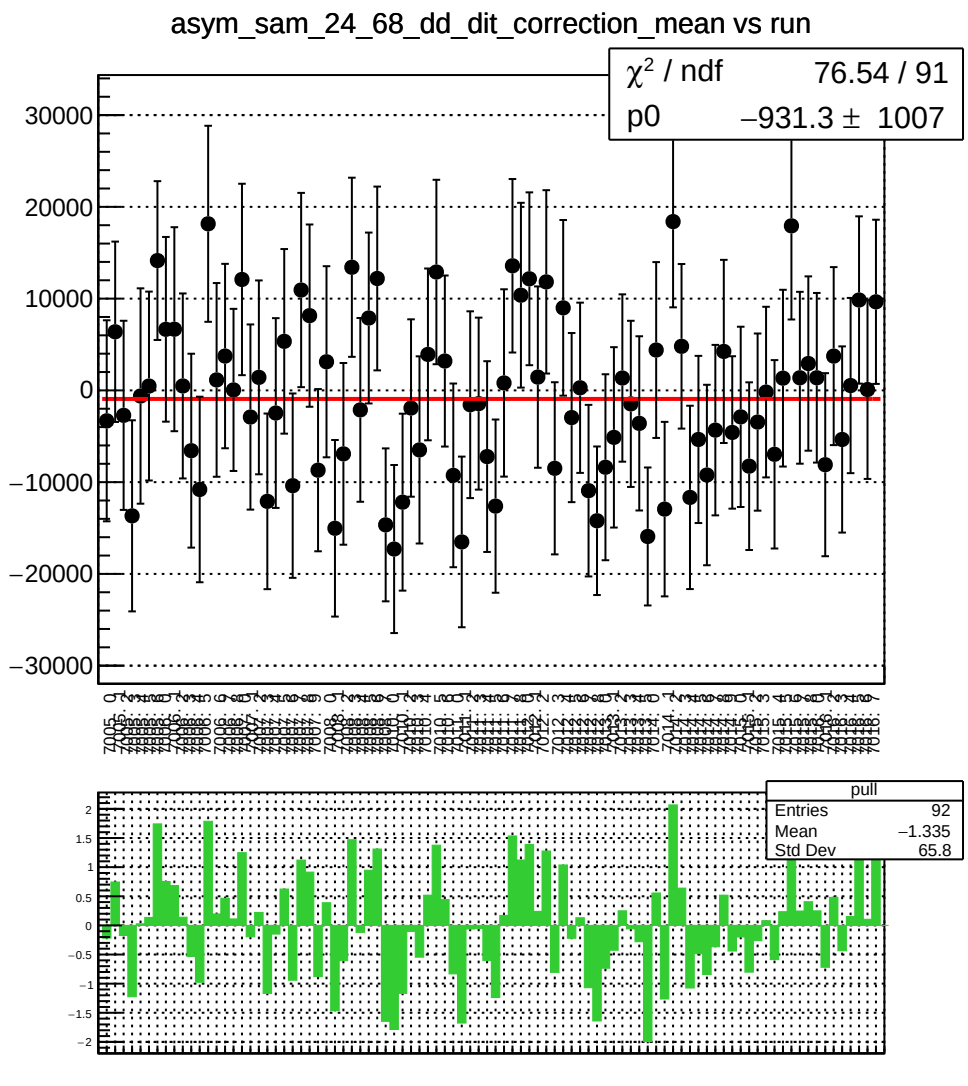

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.54 / 91
p0 −904.5 ± 990.2
pull
Entries 92
Mean −0.5766
Std Dev 67.17
pull1D
Entries 92
Mean 0.01521
Std Dev 0.912

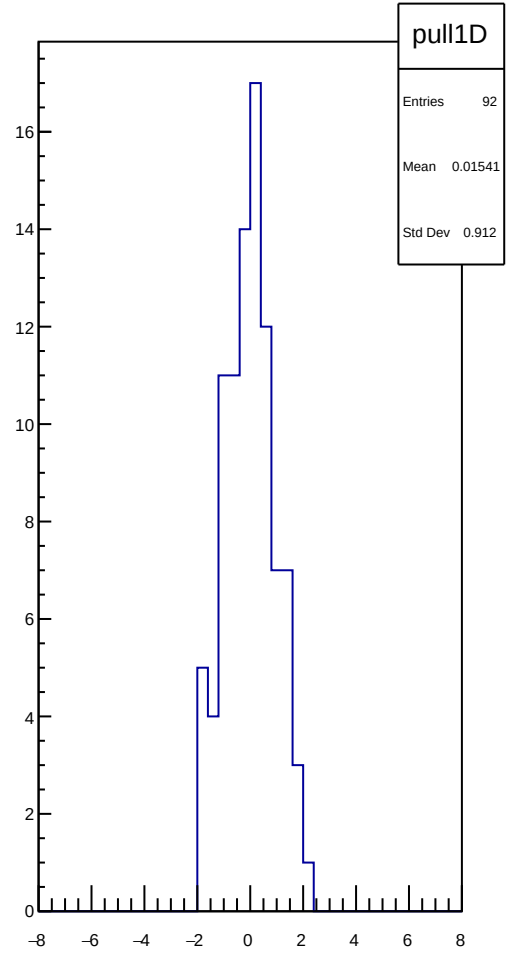

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4770 / 91
p0 915.7 ± 0.7001
1100
1050
1000
950
900
850
800

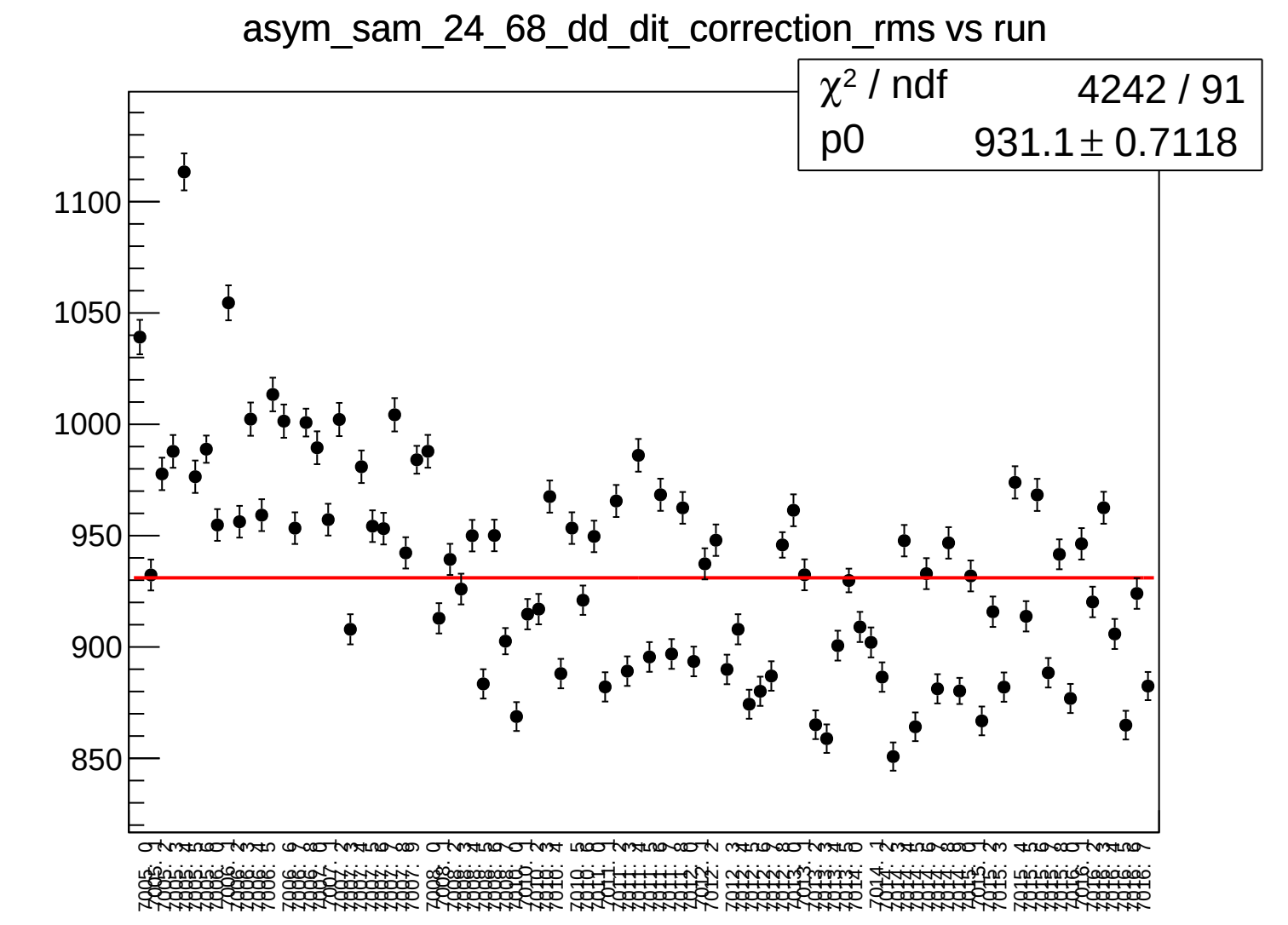

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 85.26 / 91
p0 −274 ± 98.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 92
Mean −97.97
Std Dev 0
2
1
0
−1
−2
−3

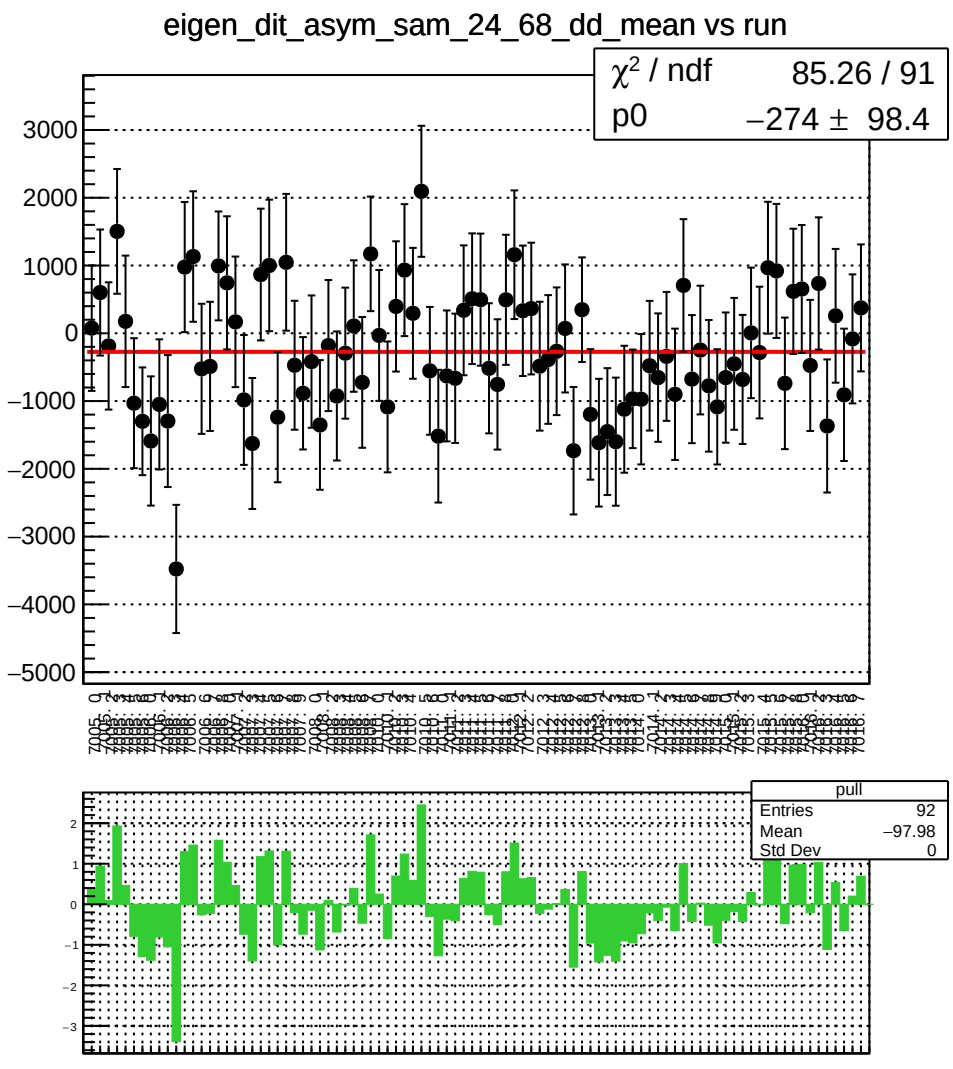

pull1D
Entries 92
Mean 0.002843
Std Dev 0.9627
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

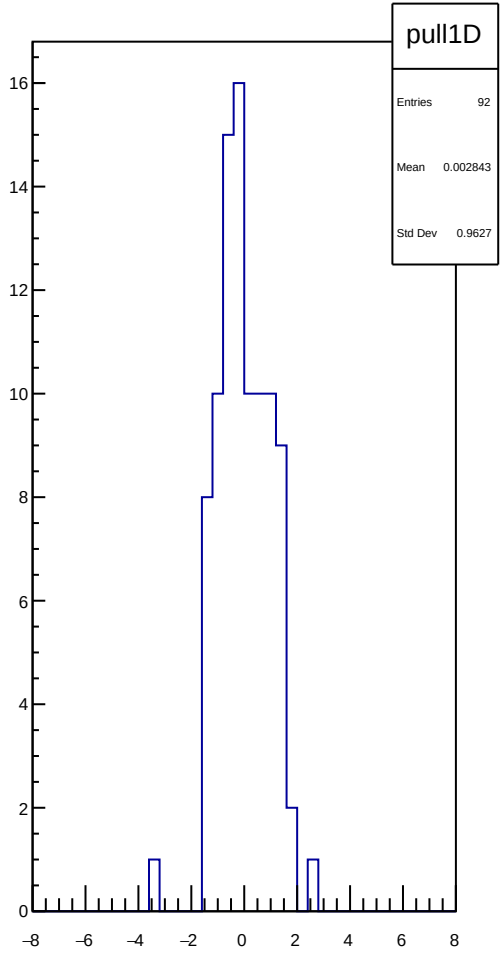

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 366.9 / 91
p0 91.12 ± 0.06958
96
94
92
90
88
86

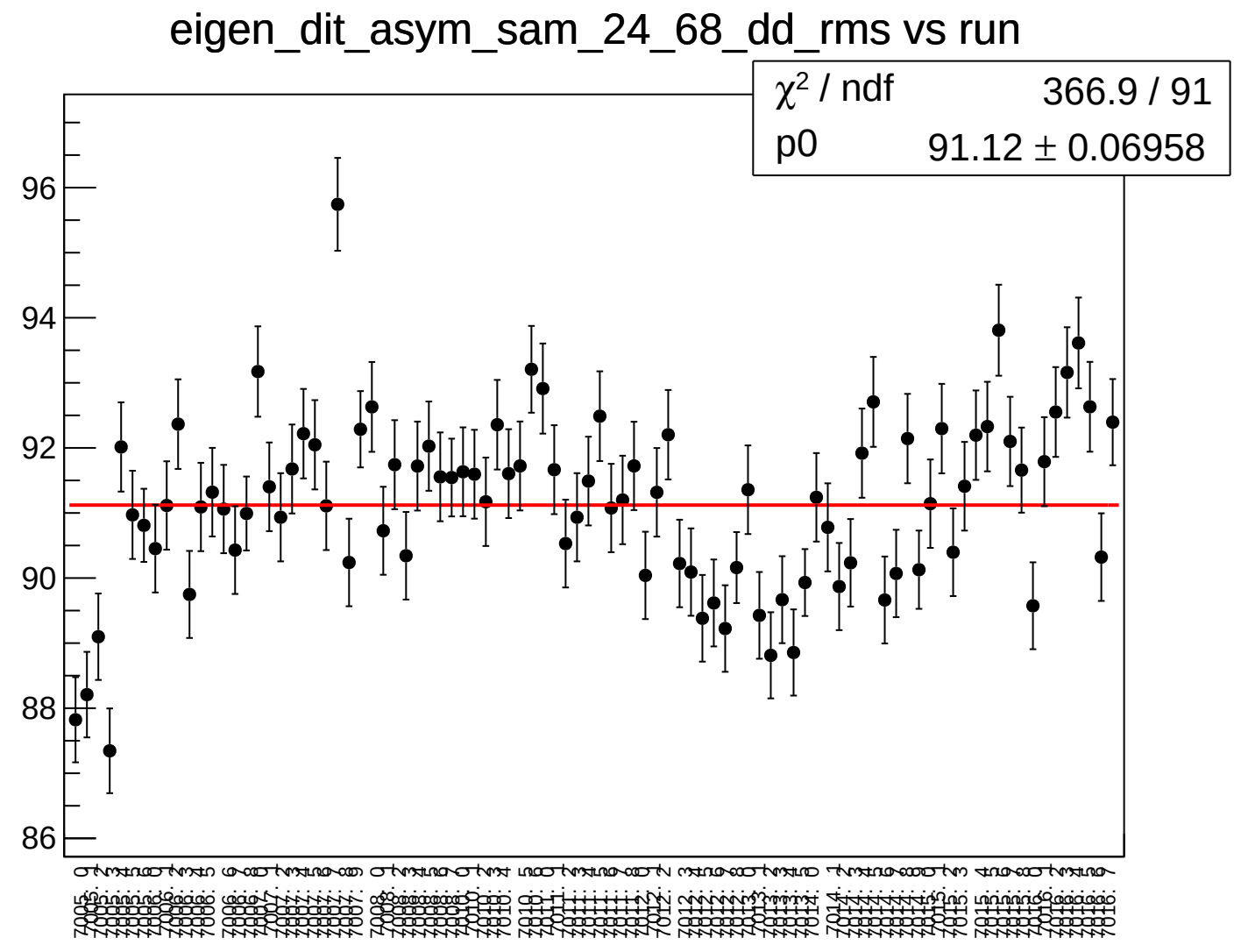

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 76.54 / 91
p0 −931.3 ± 1007
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1.335
Std Dev 65.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

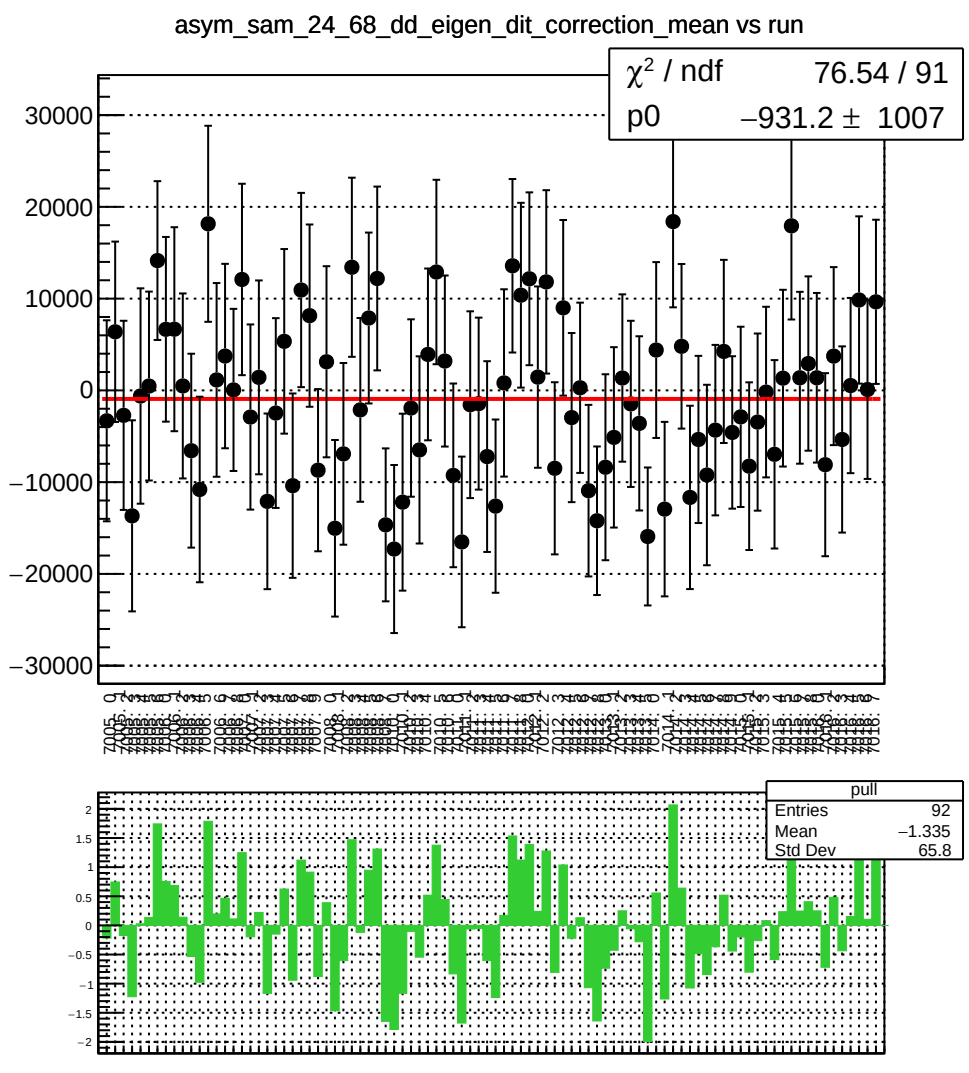

pull1D
Entries 92
Mean 0.01541
Std Dev 0.912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

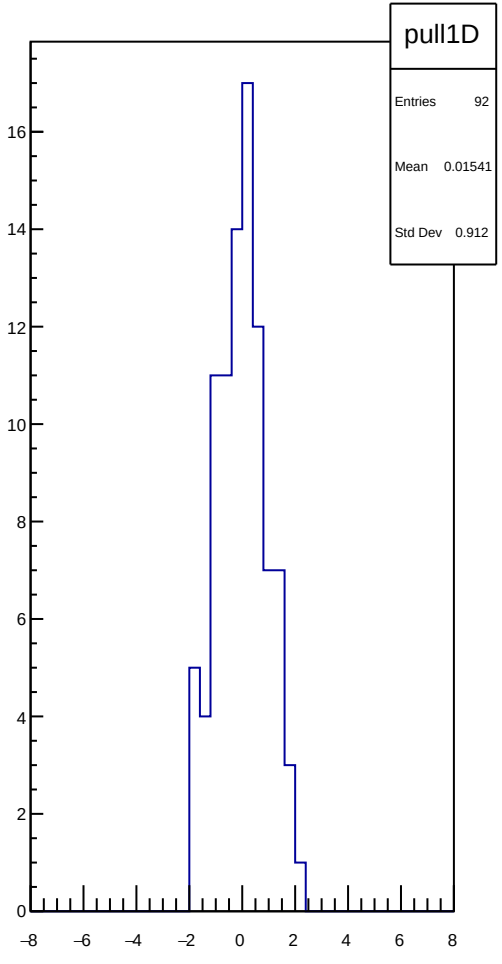

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 4242 / 91
p0 931.1 ± 0.7118
1100
1050
1000
950
900
850

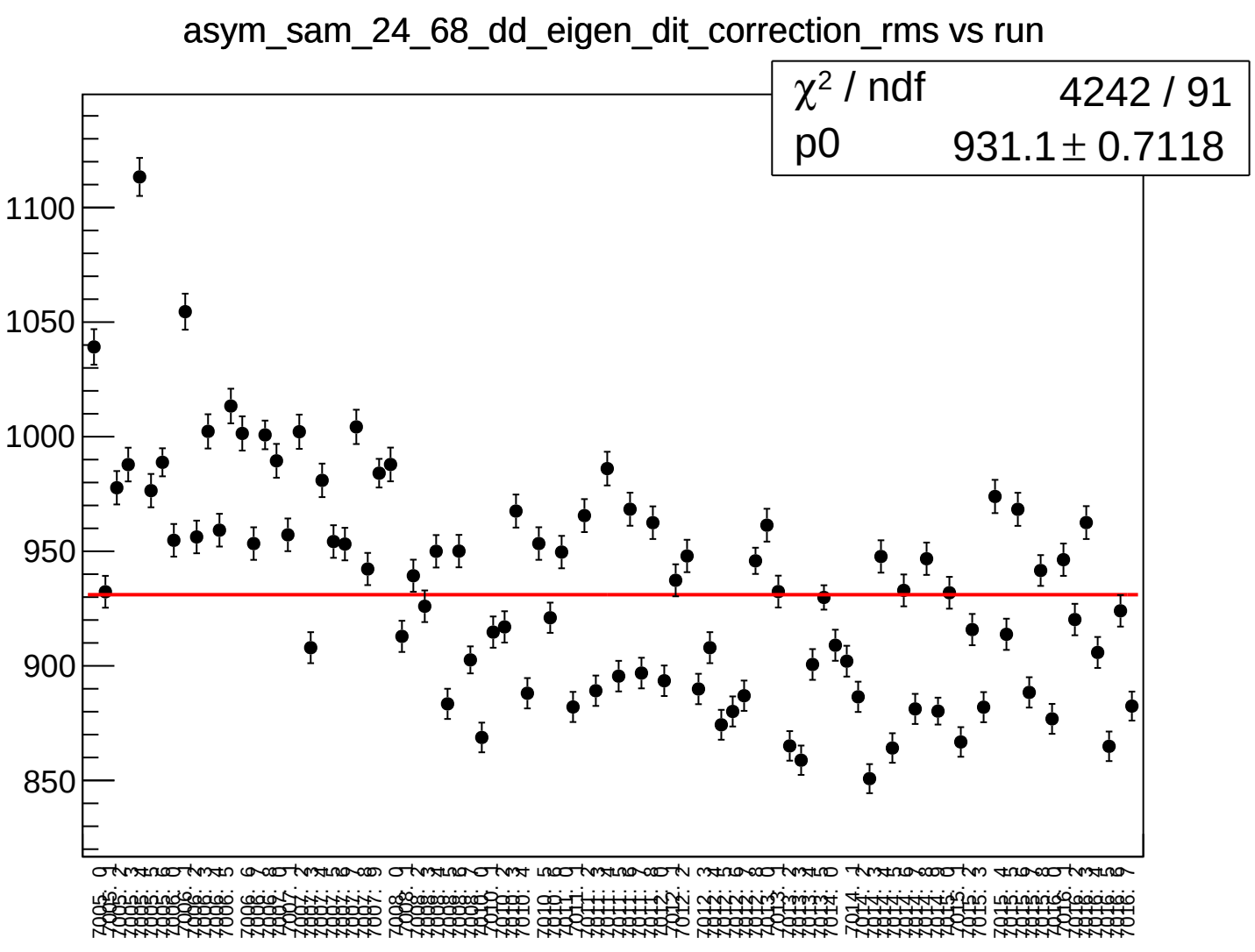

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 85.26 / 91
p0 −274 ± 98.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 92
Mean −97.98
Std Dev 0
2
1
0
−1
−2
−3

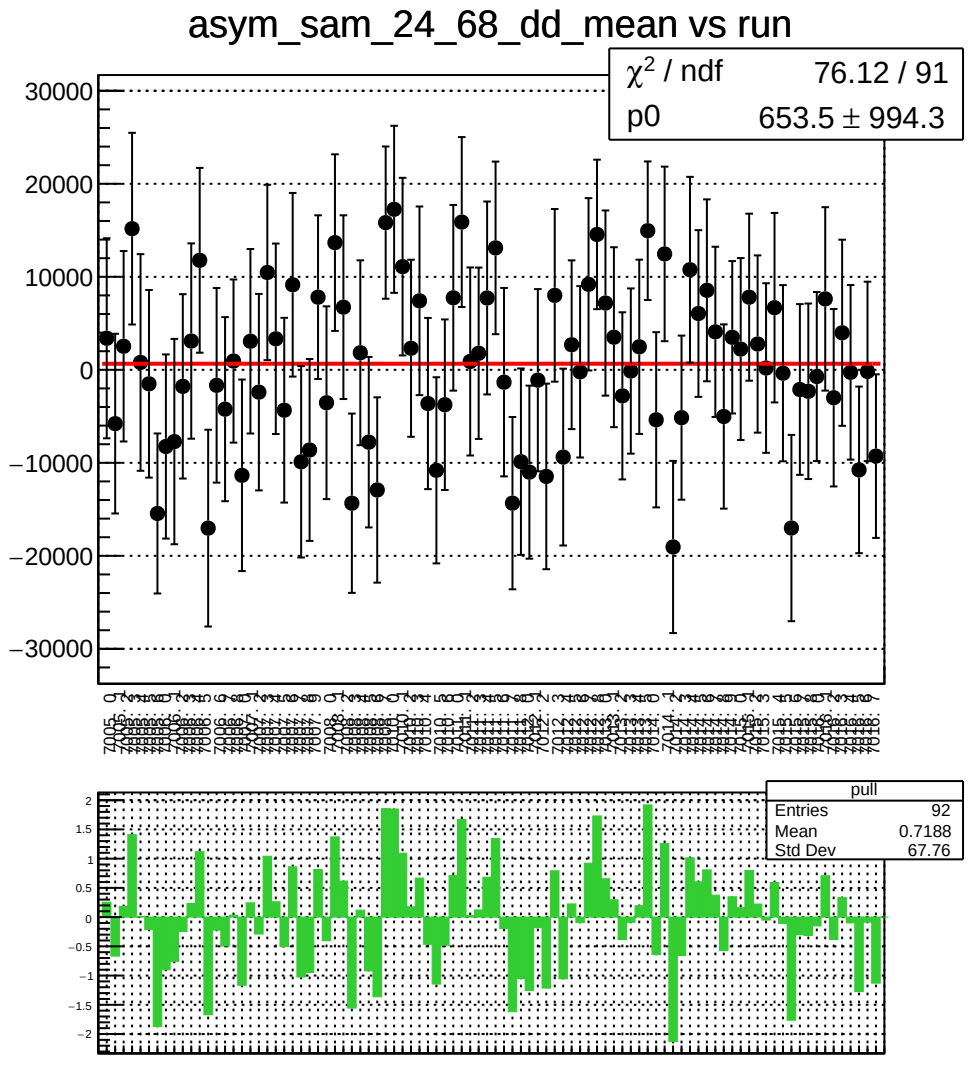

pull1D
Entries 92
Mean 0.002843
Std Dev 0.9627
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

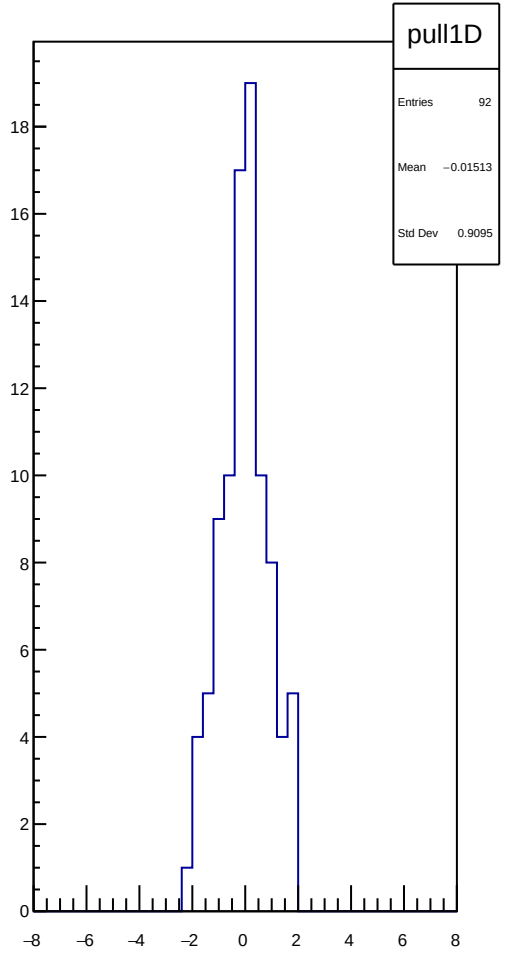

eigen_dit_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 366.9 / 91
p0 91.12 ± 0.06958
96
94
92
90
88
86

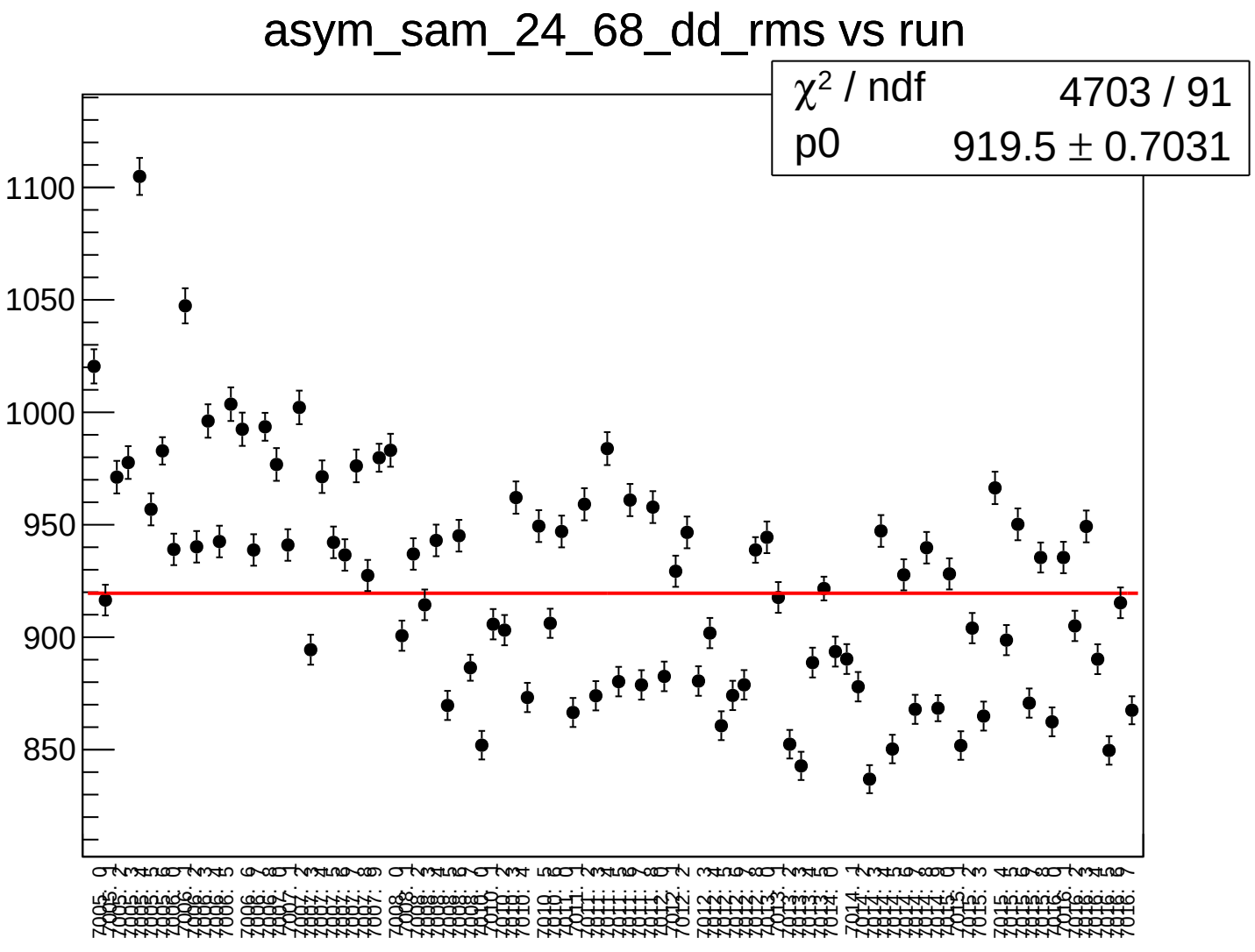

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.54 / 91
p0 −931.2 ± 1007
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −1.335
Std Dev 65.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

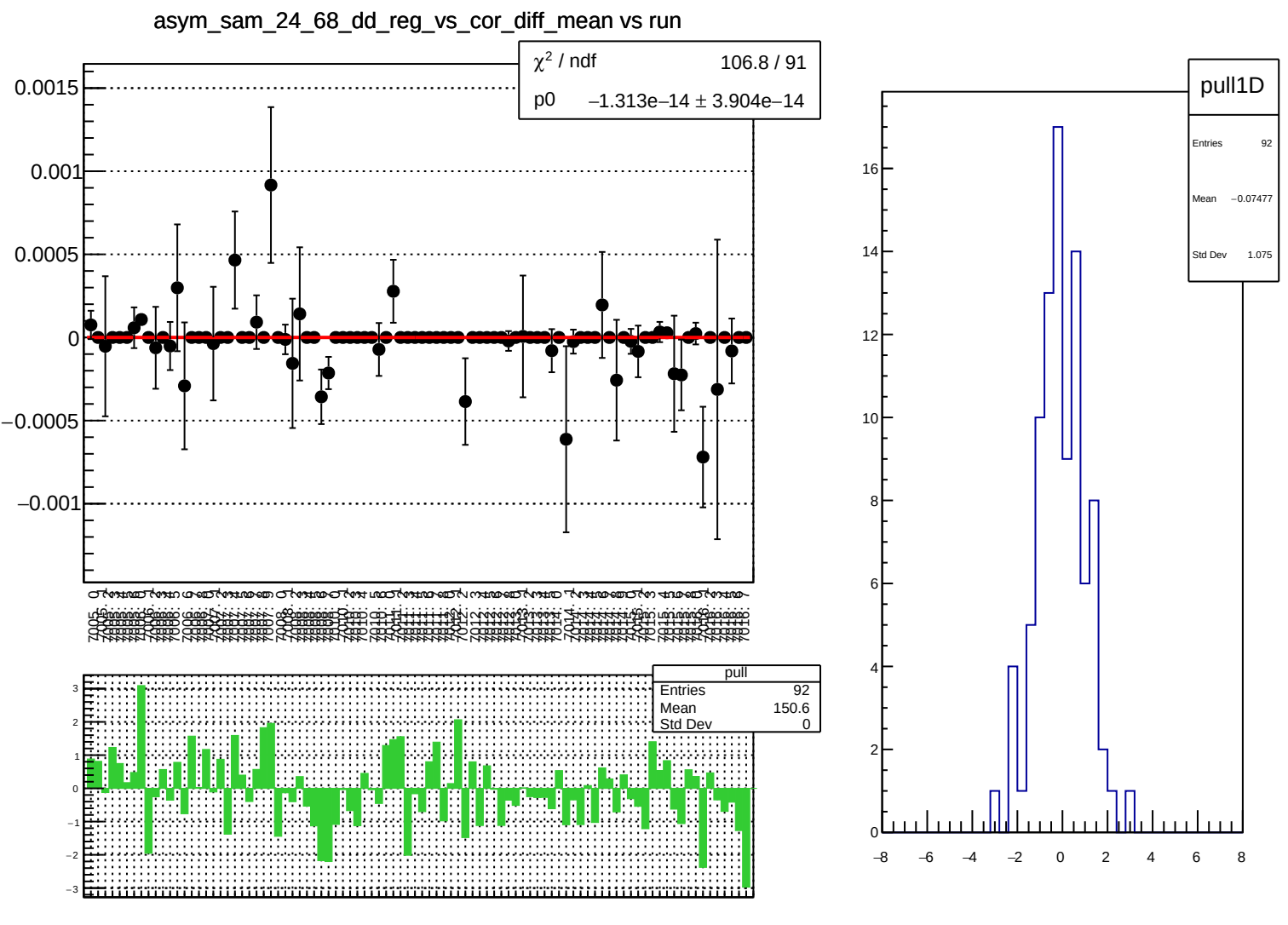

pull1D
Entries 92
Mean 0.01541
Std Dev 0.912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

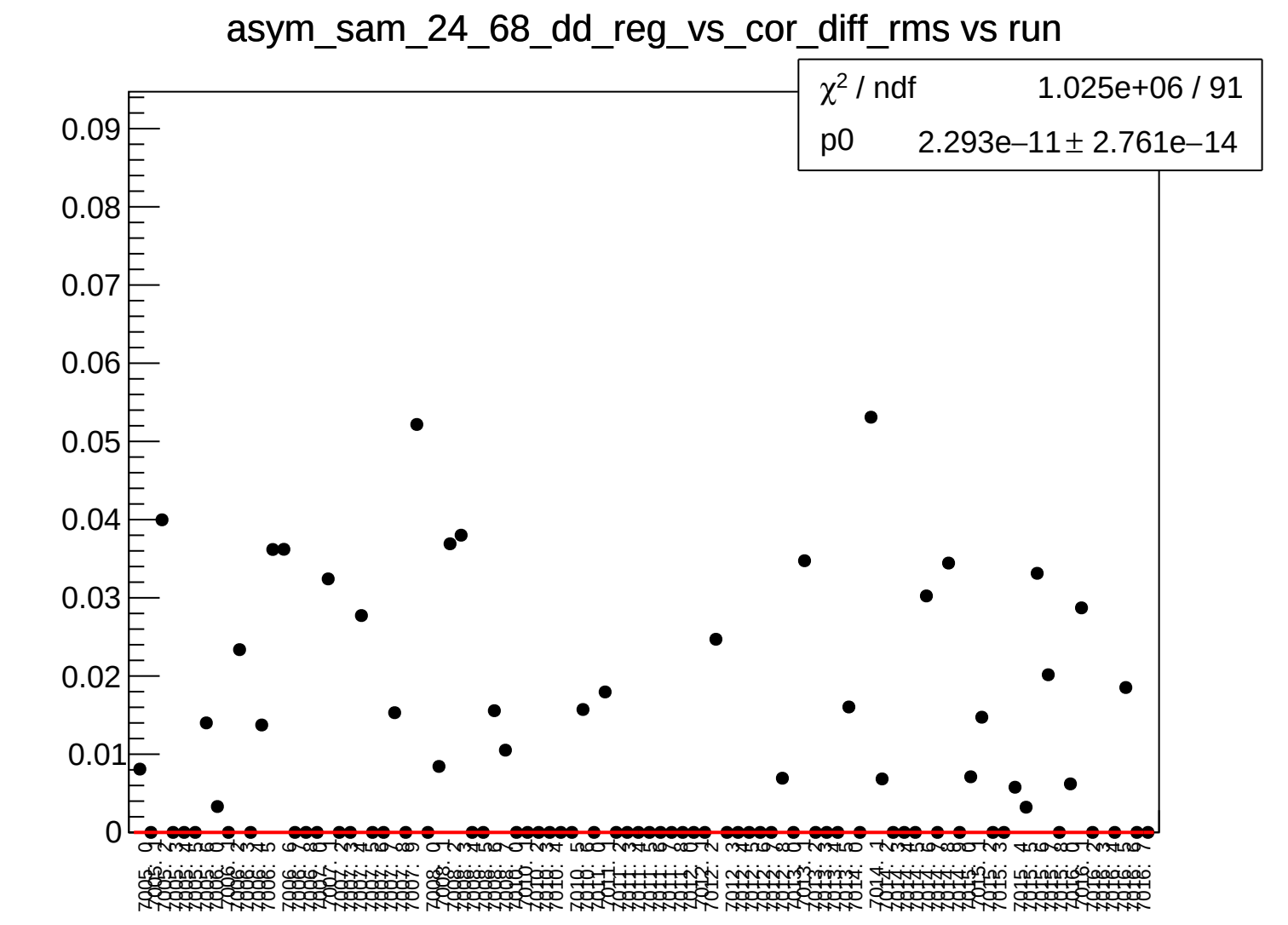

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 4242 / 91
p0 931.1 ± 0.7118
1100
1050
1000
950
900
850

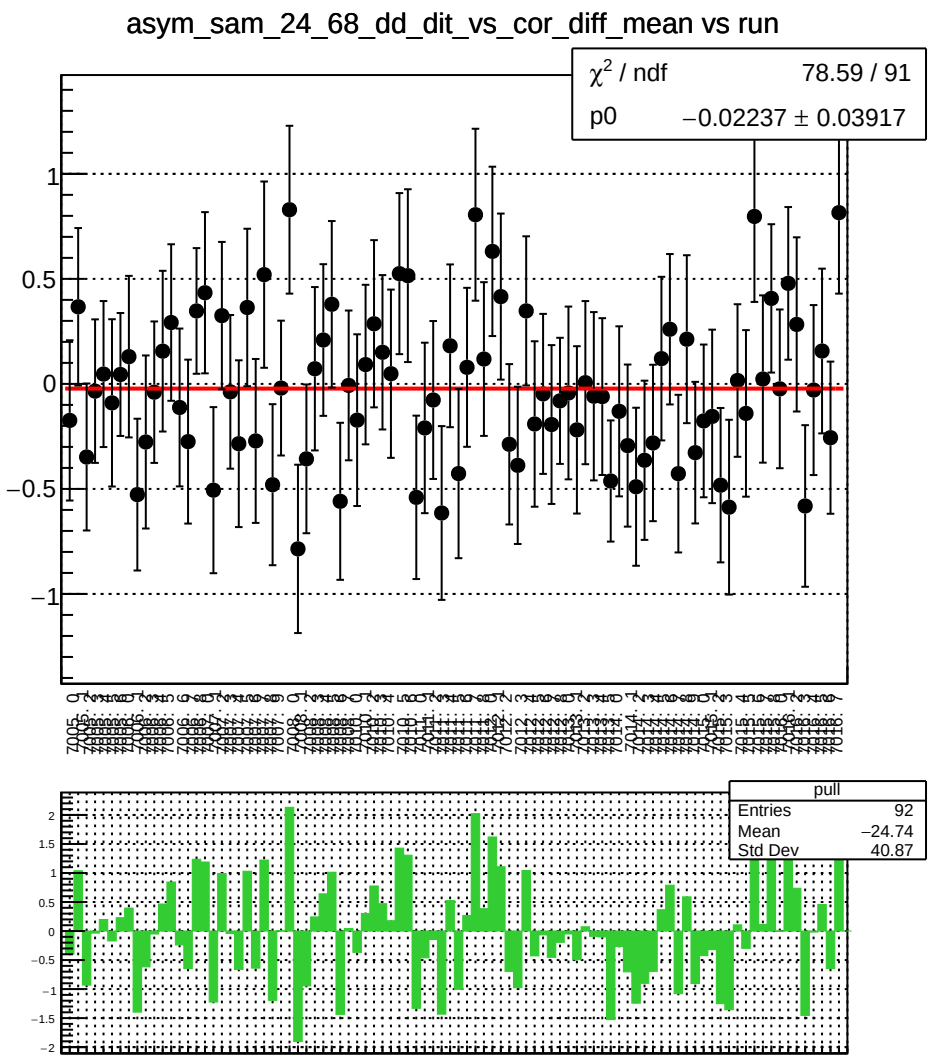

asym_sam_24_68_dd_mean vs run
χ² / ndf 76.12 / 91
p0 653.5 ± 994.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 0.7188
Std Dev 67.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

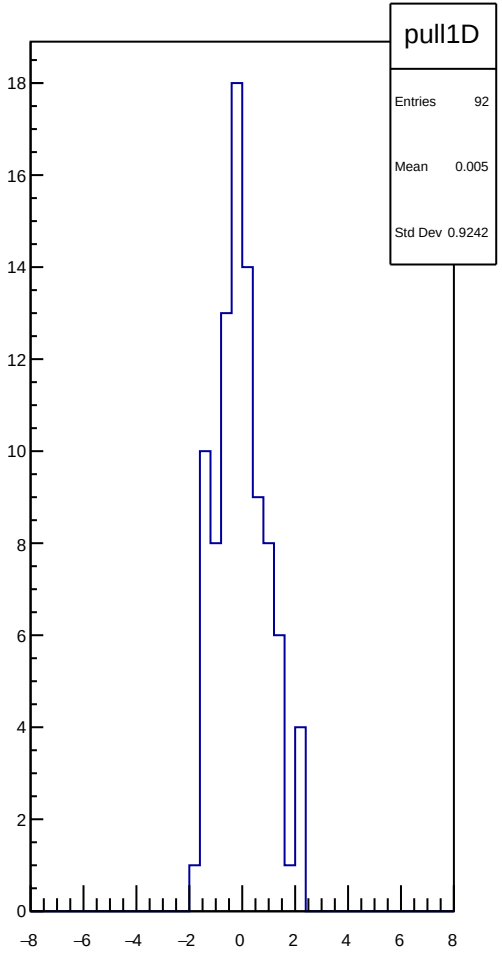

pull1D
Entries 92
Mean −0.01513
Std Dev 0.9095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

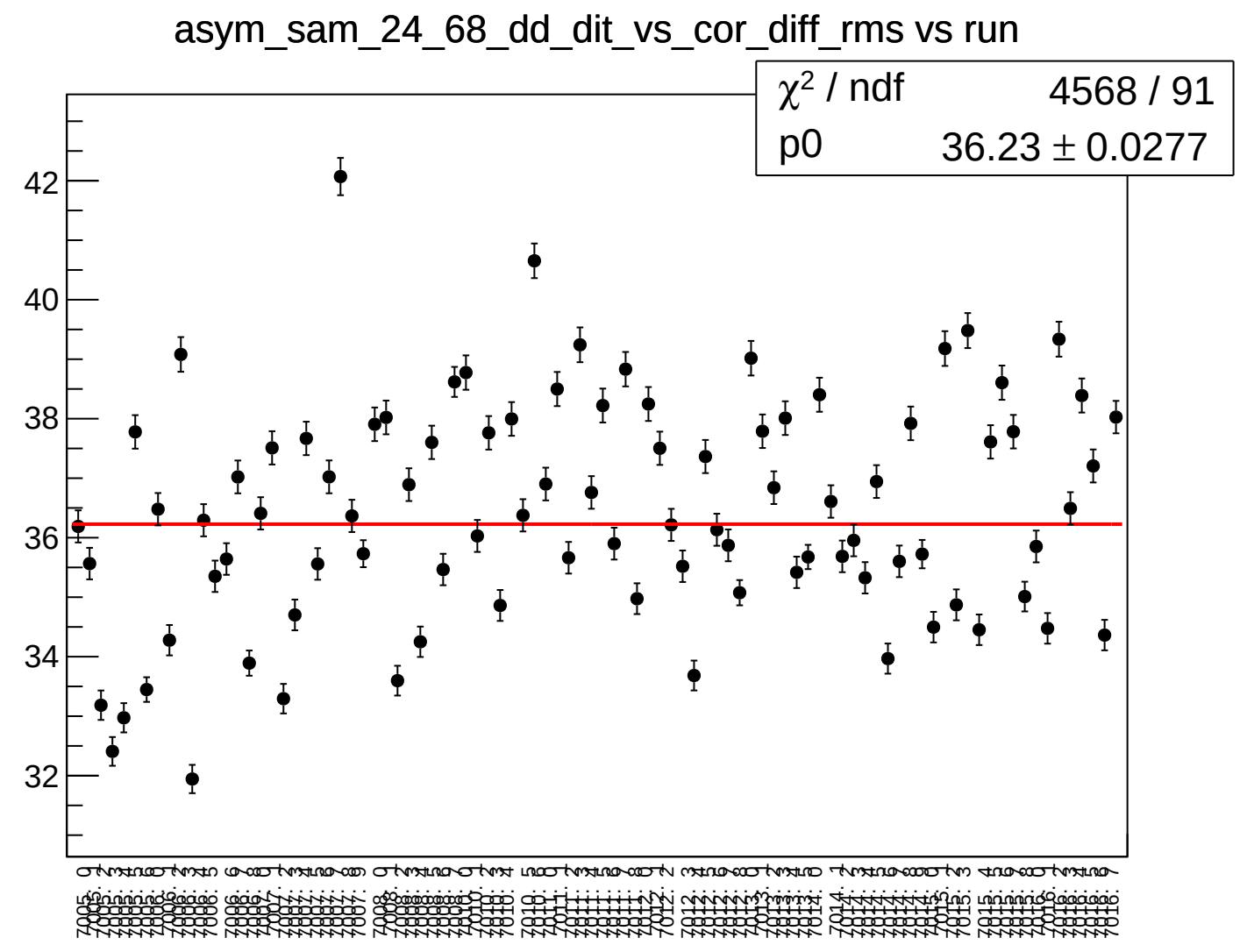

asym_sam_24_68_dd_rms vs run
χ² / ndf 4703 / 91
p0 919.5 ± 0.7031
1100
1050
1000
950
900
850

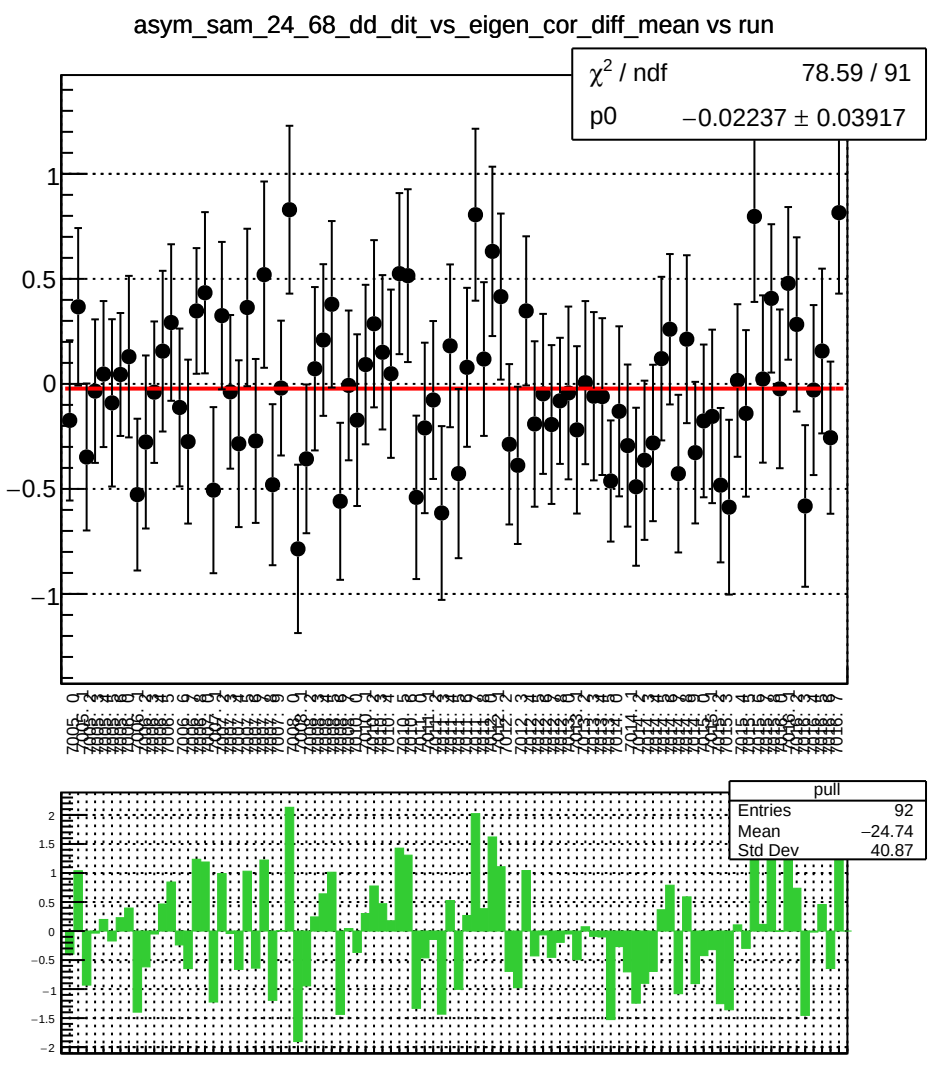

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 91
p0 −1.313e−14 ± 3.904e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 150.6
Std Dev 0
pull1D
Entries 92
Mean −0.07477
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

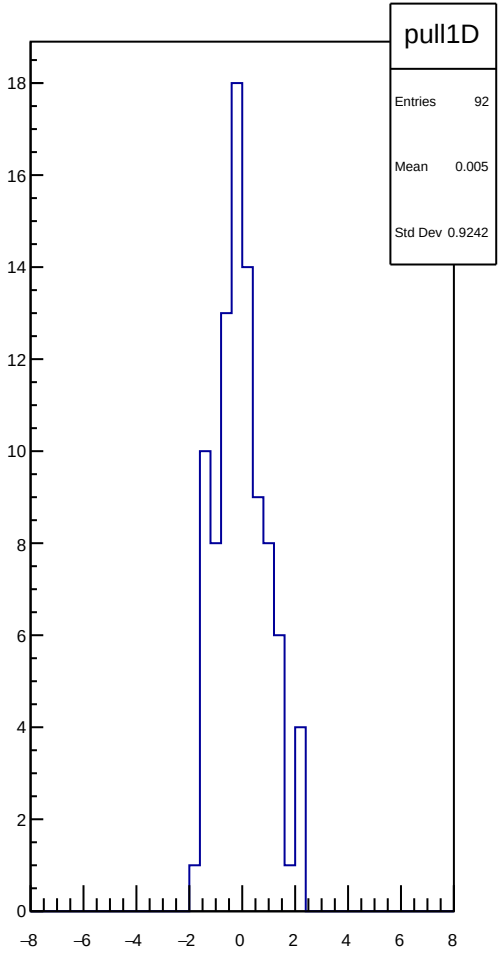

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 91
p0 2.293e−11 ± 2.761e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

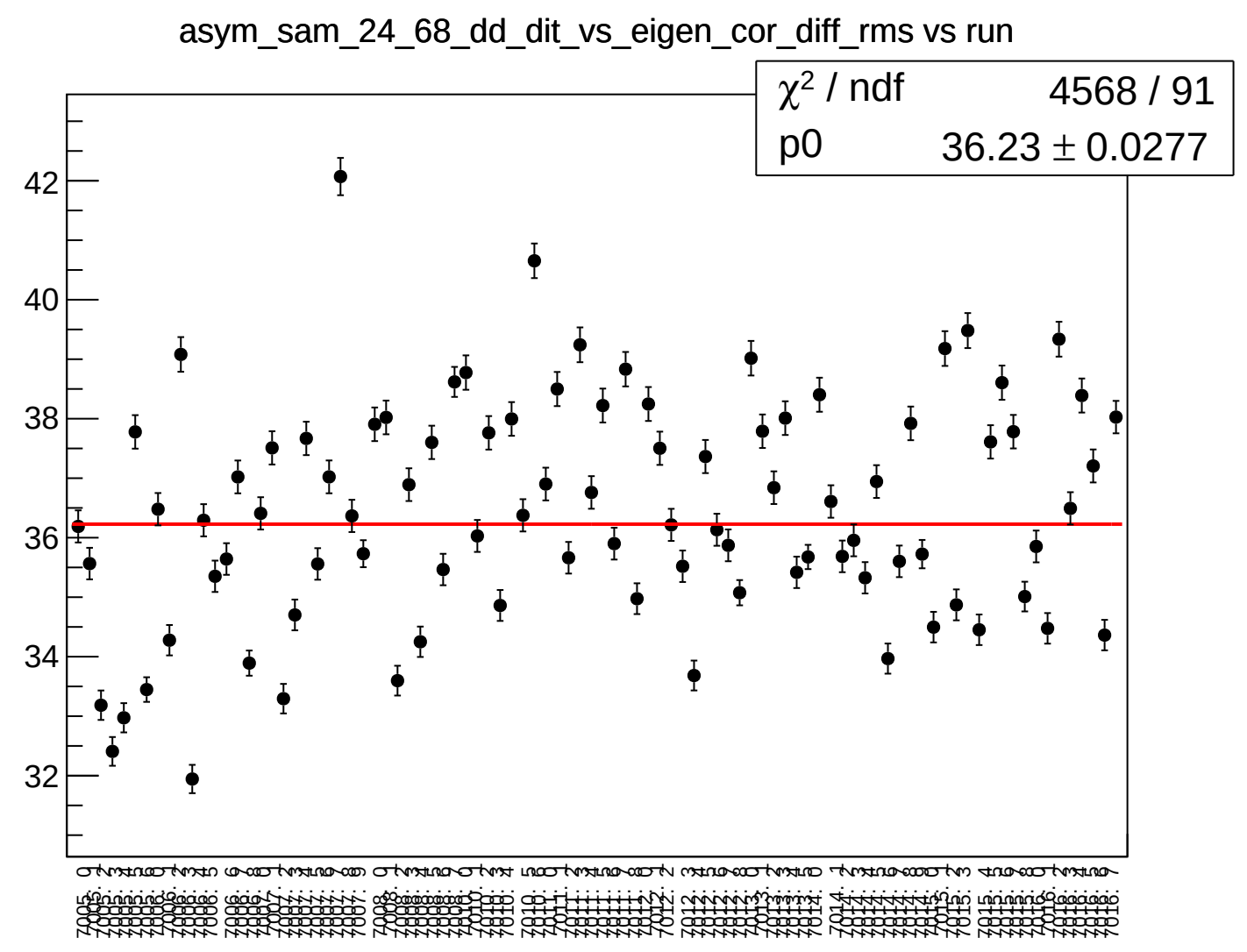

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.59 / 91
p0 −0.02237 ± 0.03917
pull
Entries 92
Mean −24.74
Std Dev 40.87

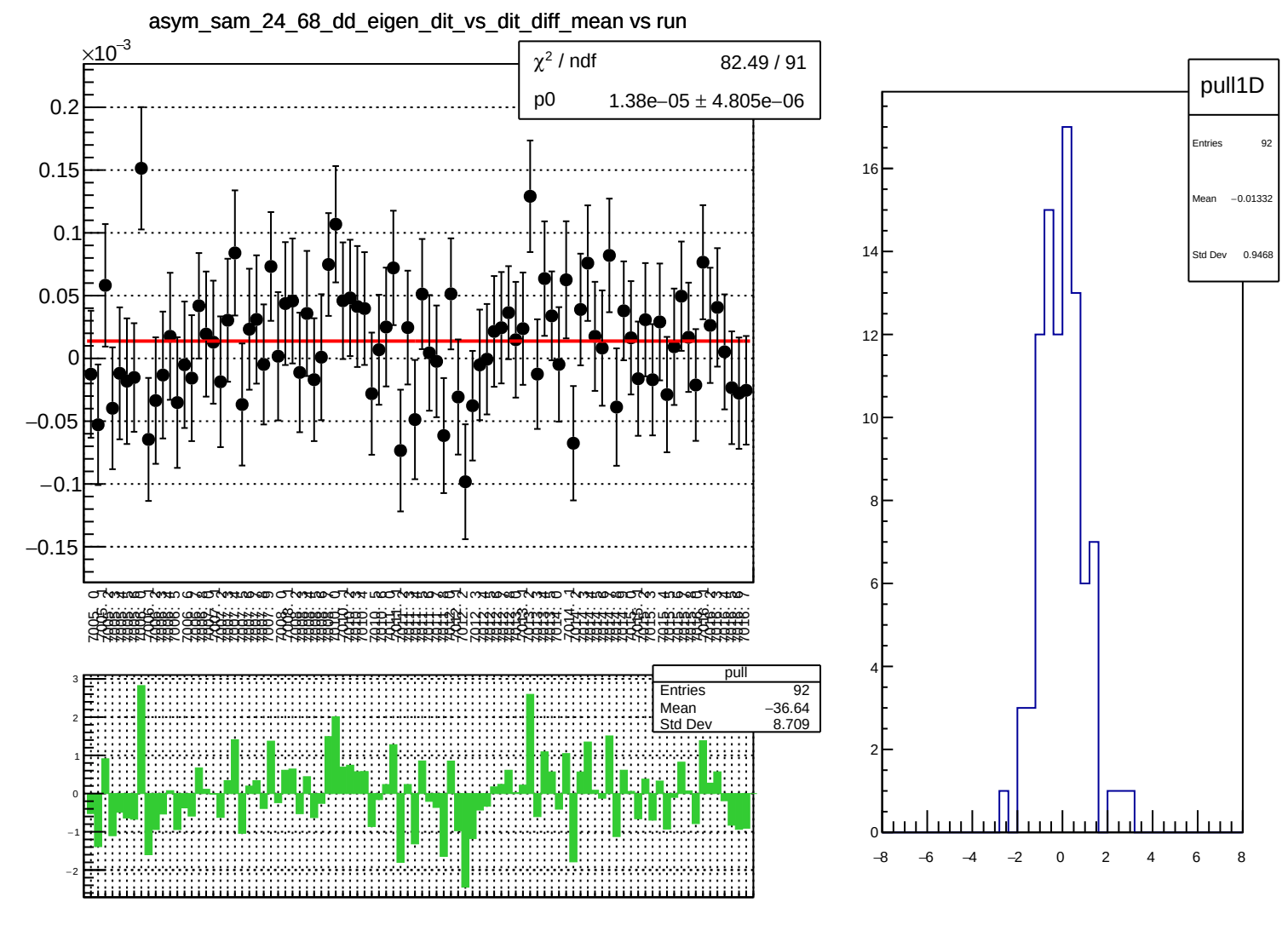

pull1D
Entries 92
Mean 0.005
Std Dev 0.9242

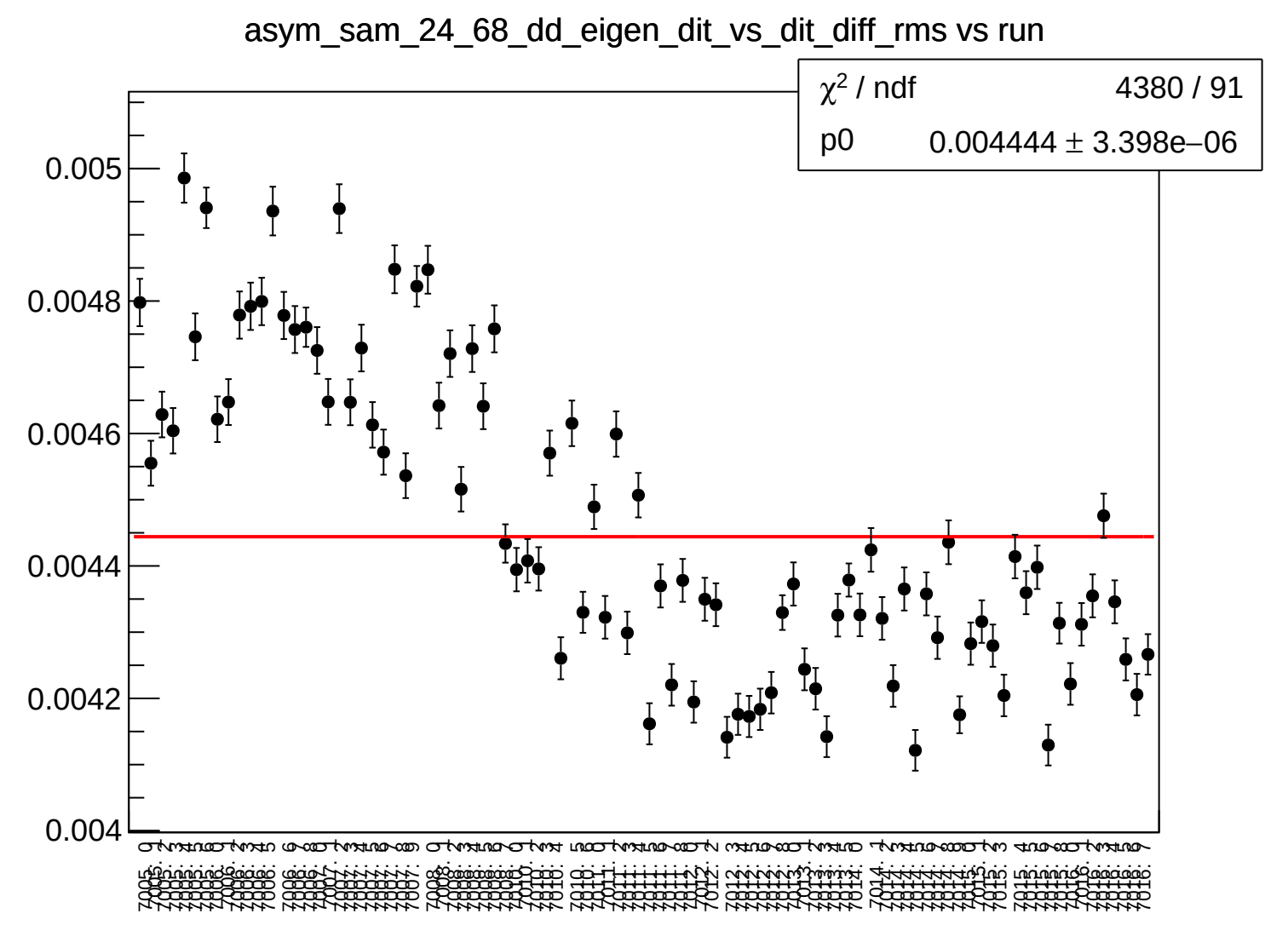

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4568 / 91
p0 36.23 ± 0.0277
42
40
38
36
34
32

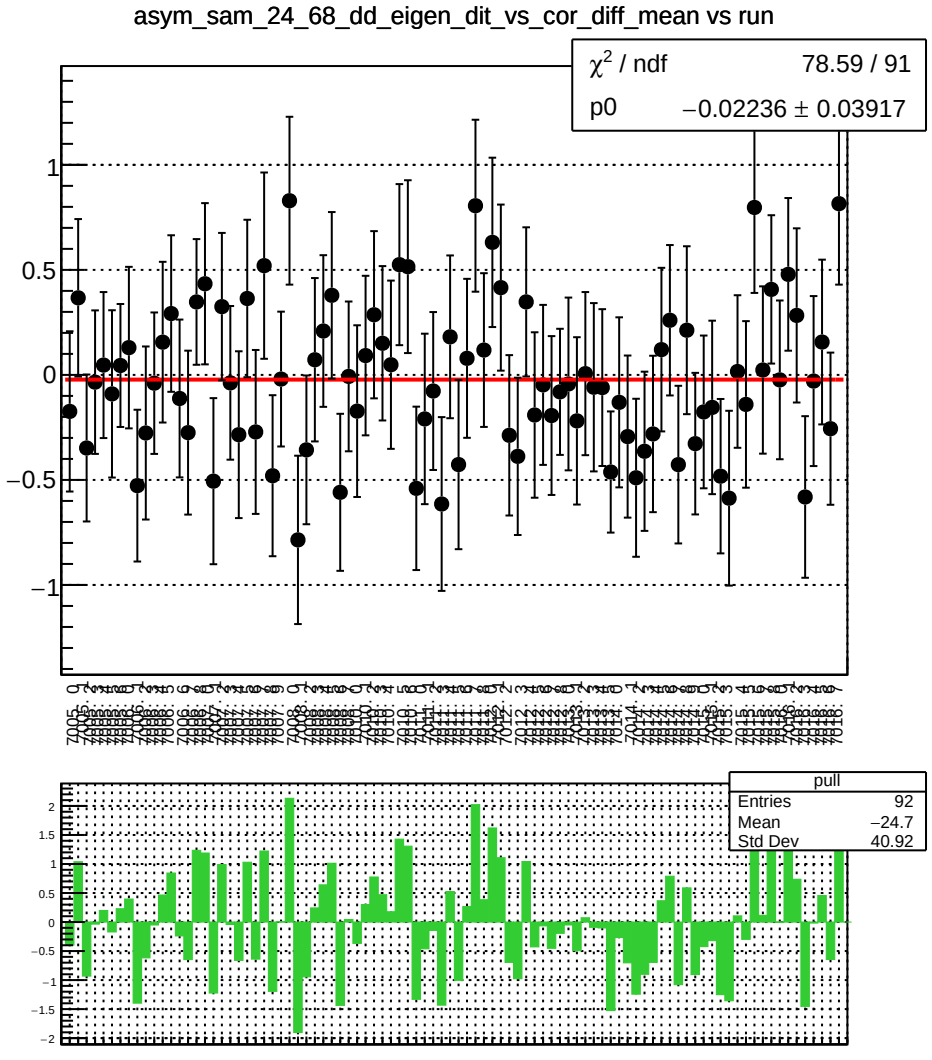

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.59 / 91
p0 −0.02237 ± 0.03917
pull
Entries 92
Mean −24.74
Std Dev 40.87

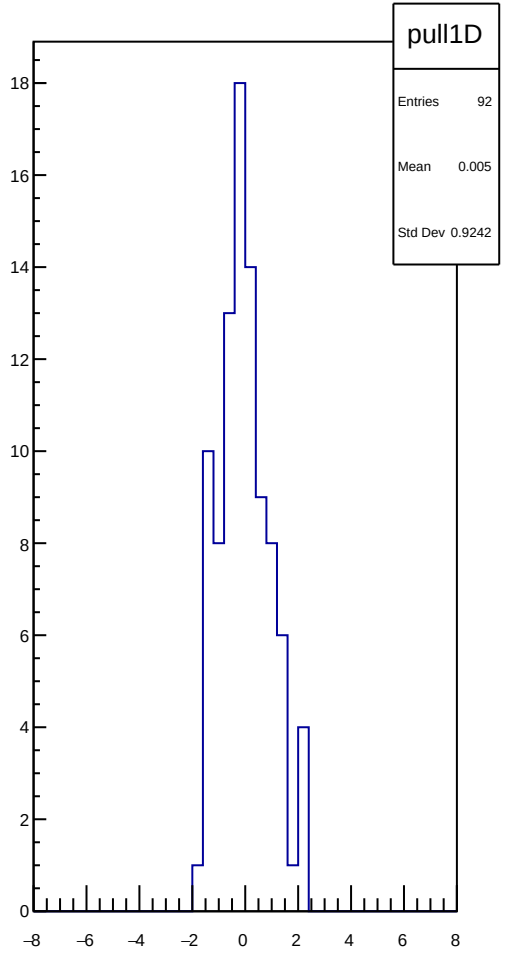

pull1D
Entries 92
Mean 0.005
Std Dev 0.9242

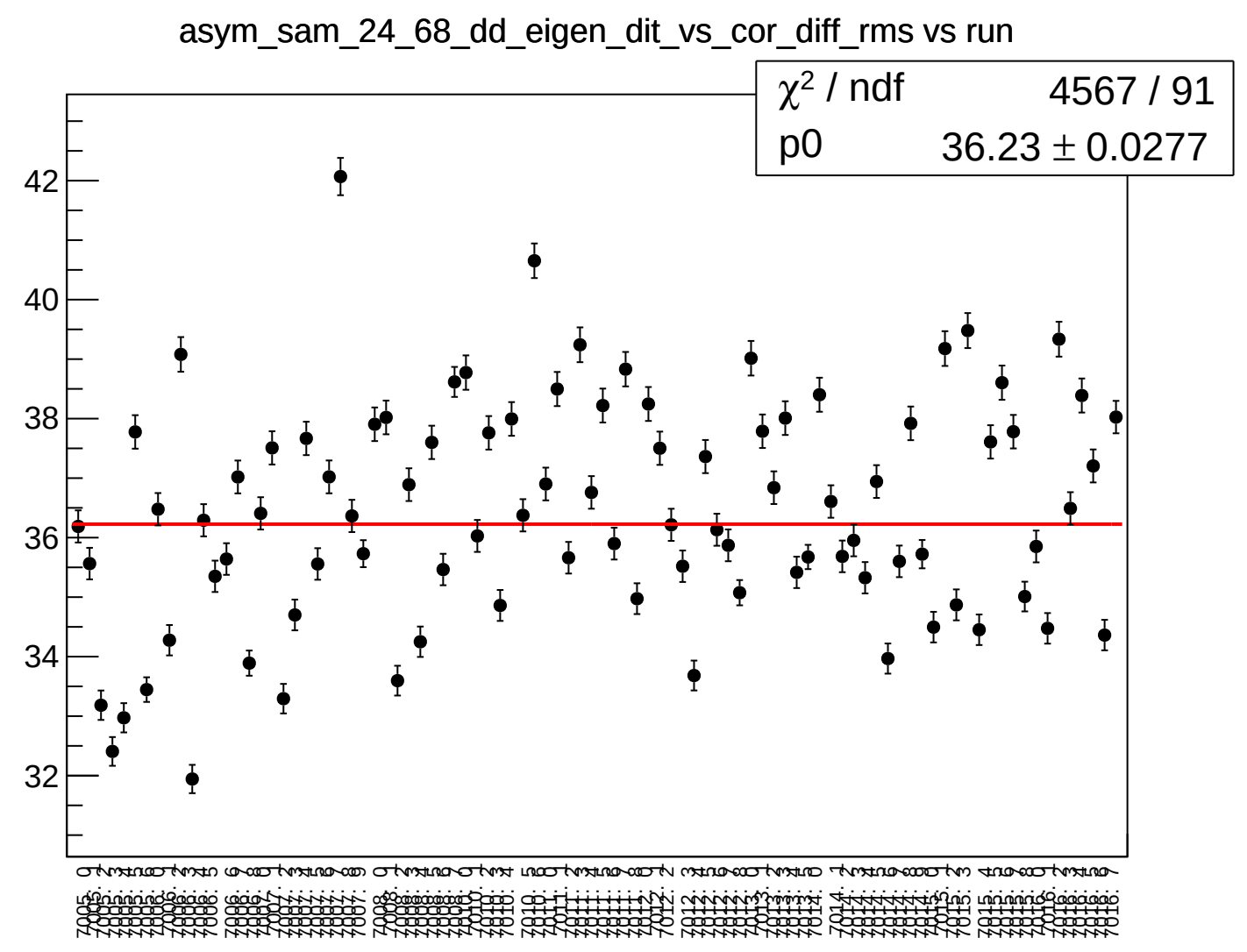

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4568 / 91
p0 36.23 ± 0.0277
42
40
38
36
34
32

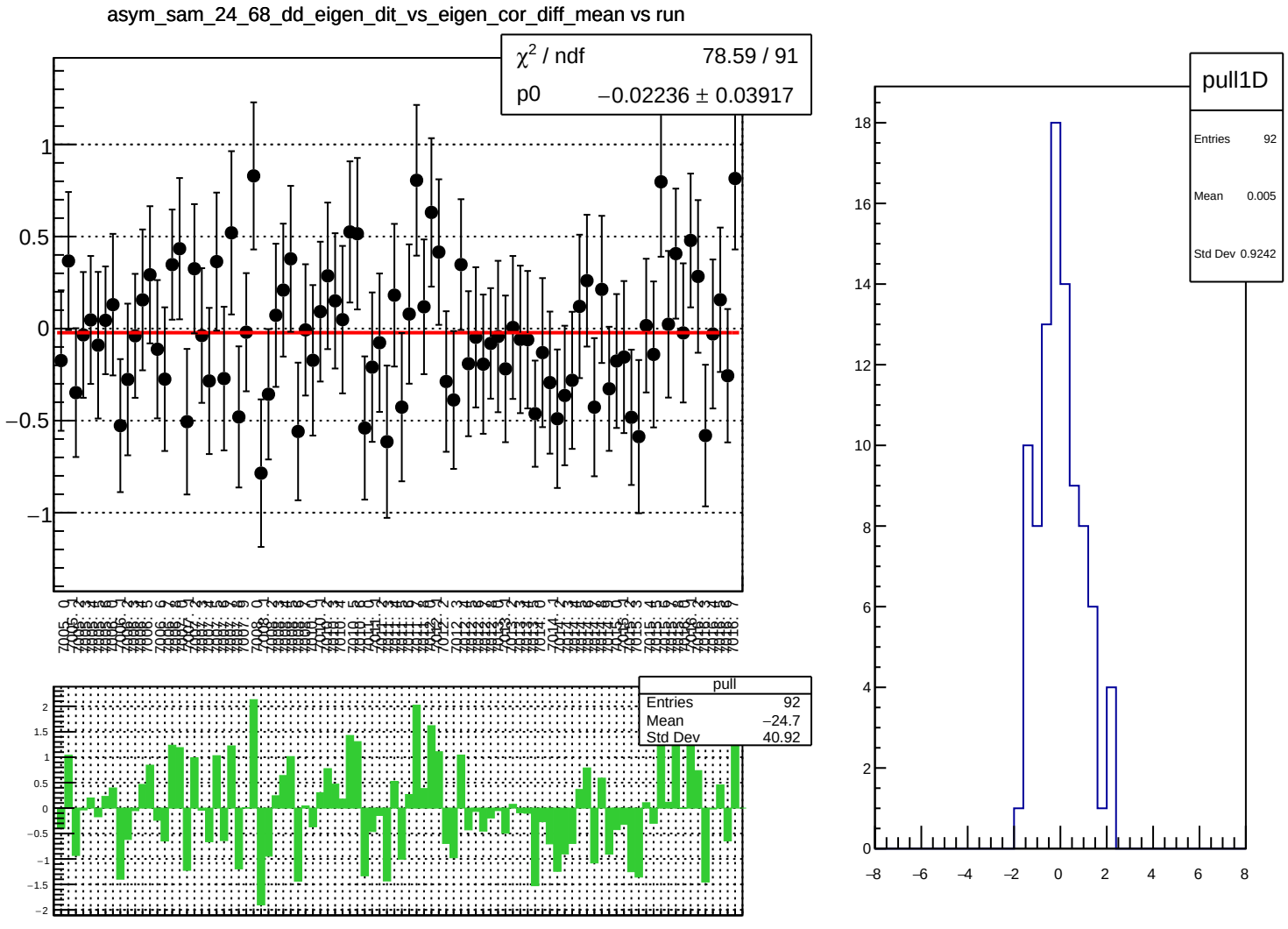

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.49 / 91
p0 1.38e−05 ± 4.805e−06
pull
Entries 92
Mean −36.64
Std Dev 8.709
pull1D
Entries 92
Mean −0.01332
Std Dev 0.9468

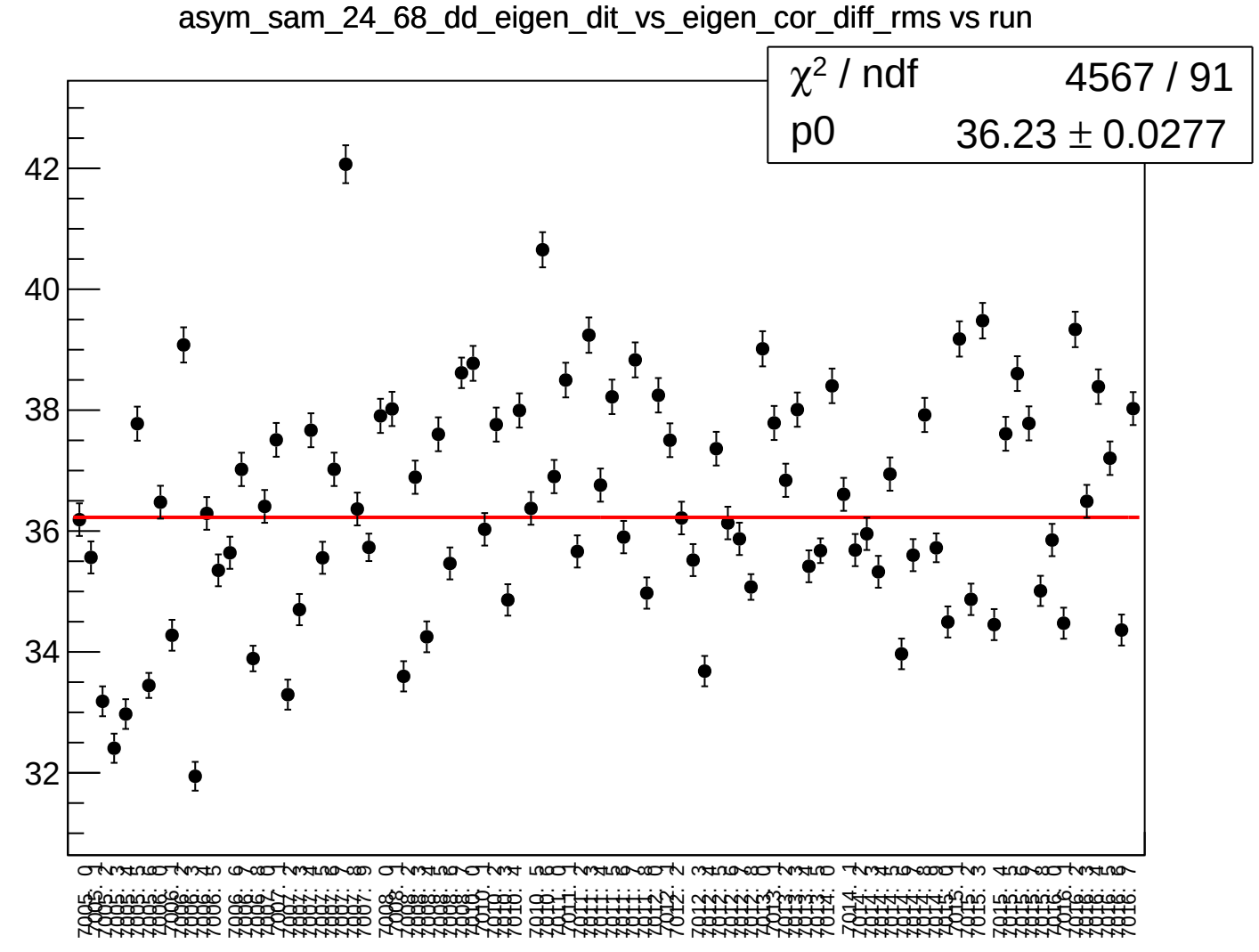

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4380 / 91
p0 0.004444 ± 3.398e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

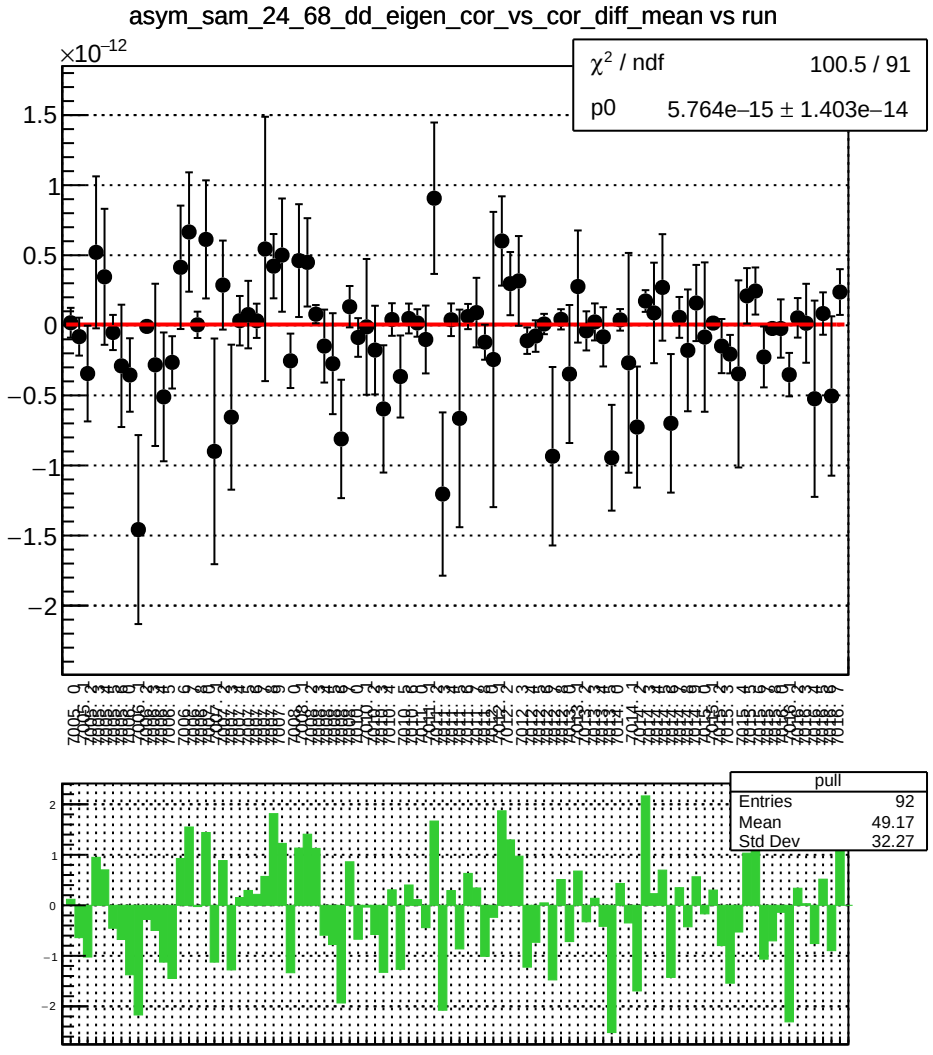

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.59 / 91
p0 −0.02236 ± 0.03917
pull
Entries 92
Mean −24.7
Std Dev 40.92

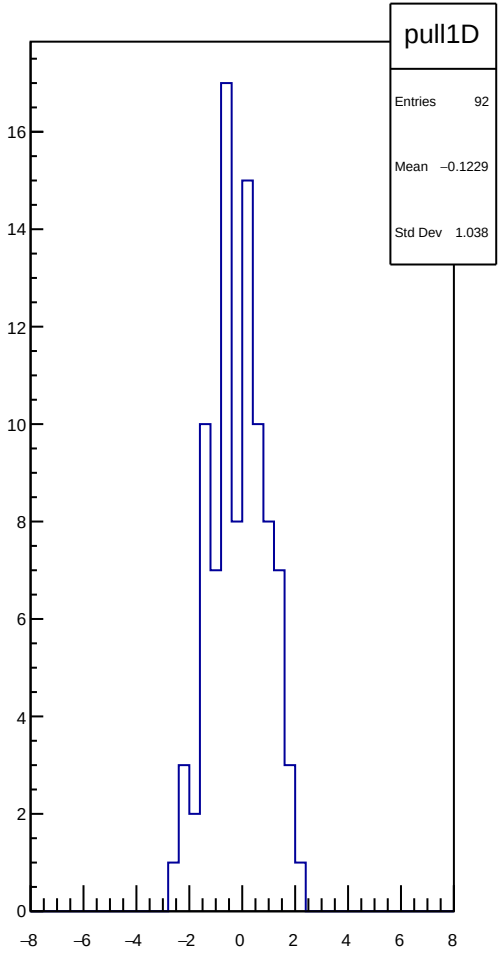

pull1D
Entries 92
Mean 0.005
Std Dev 0.9242

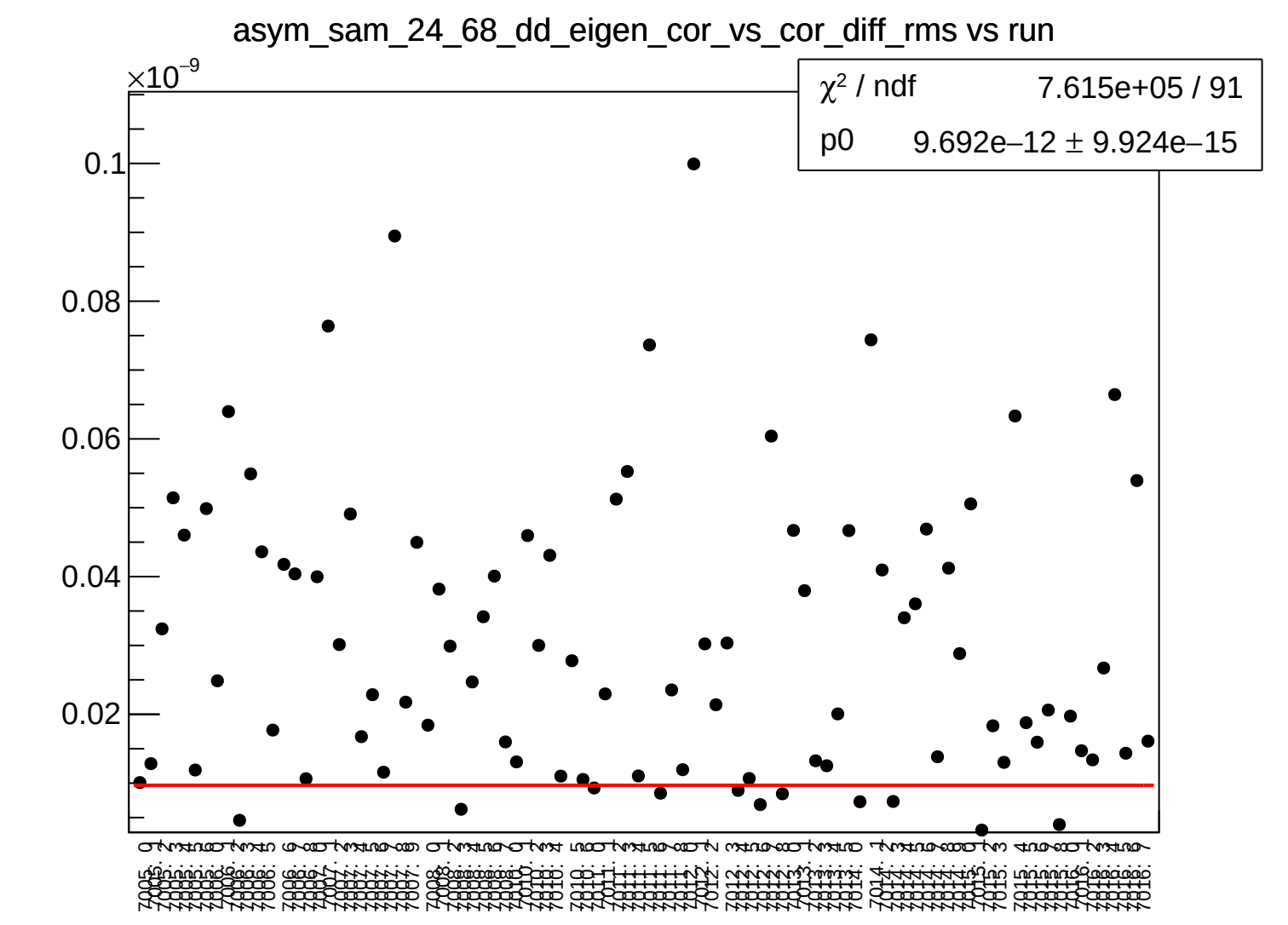

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4567 / 91
p0 36.23 ± 0.0277
42
40
38
36
34
32

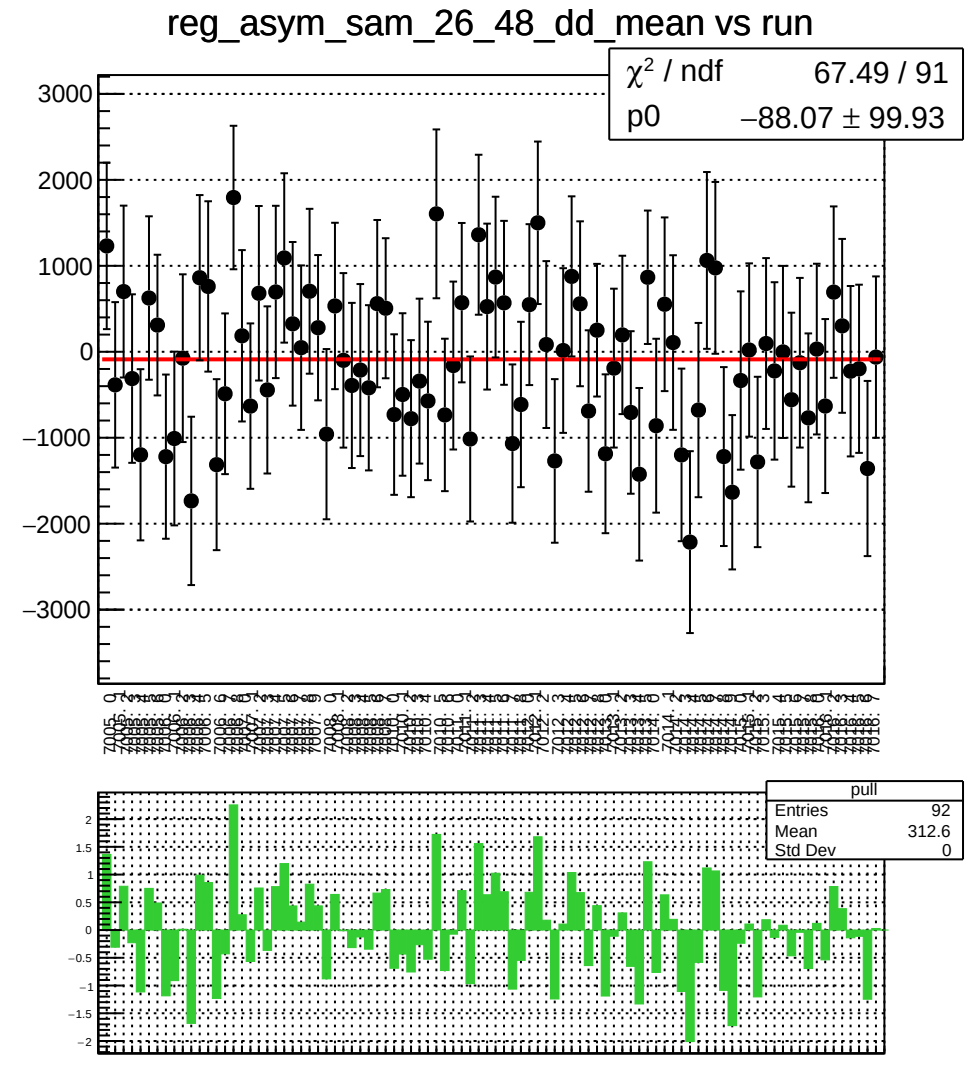

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.59 / 91
p0 −0.02236 ± 0.03917
pull
Entries 92
Mean −24.7
Std Dev 40.92
pull1D
Entries 92
Mean 0.005
Std Dev 0.9242

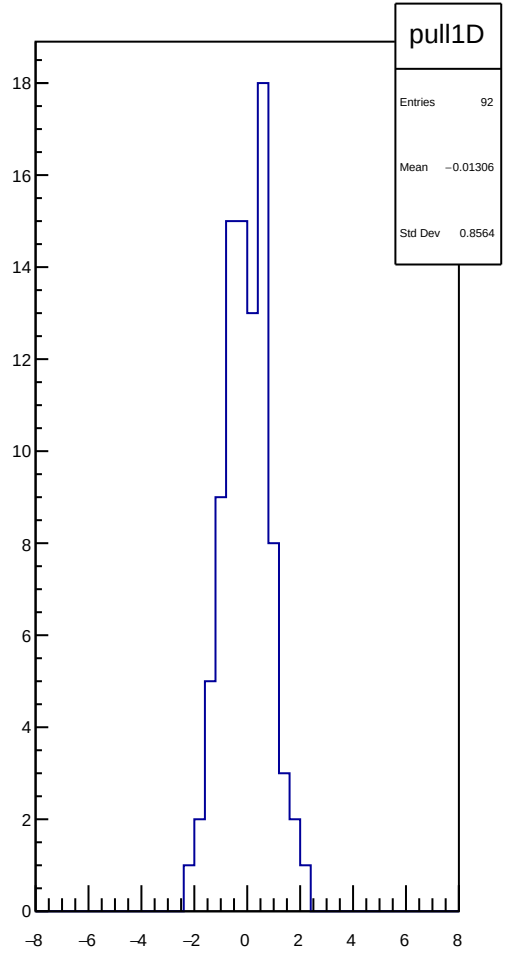

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4567 / 91
p0 36.23 ± 0.0277
42
40
38
36
34
32

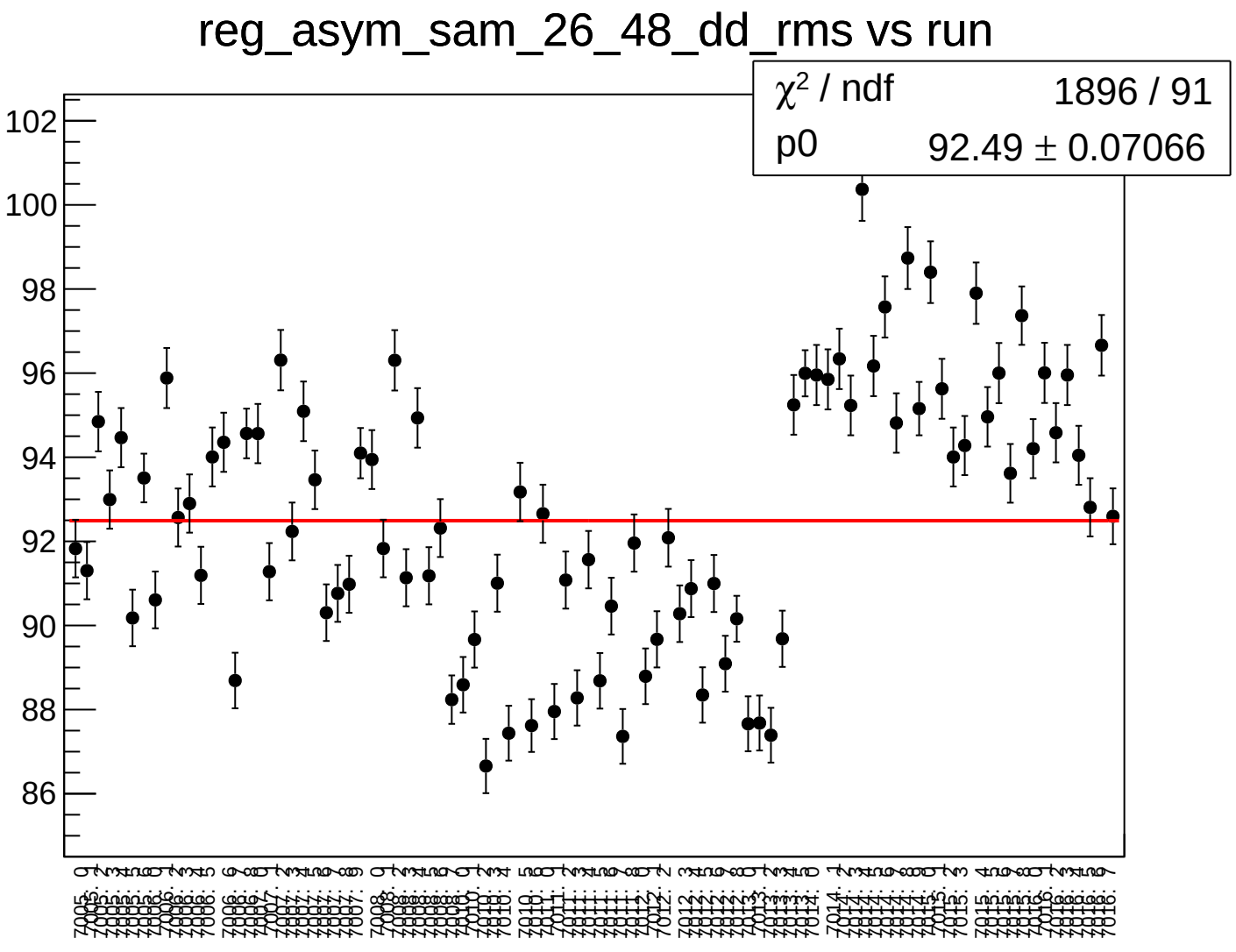

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.5 / 91
p0 5.764e−15 ± 1.403e−14
pull
Entries 92
Mean 49.17
Std Dev 32.27

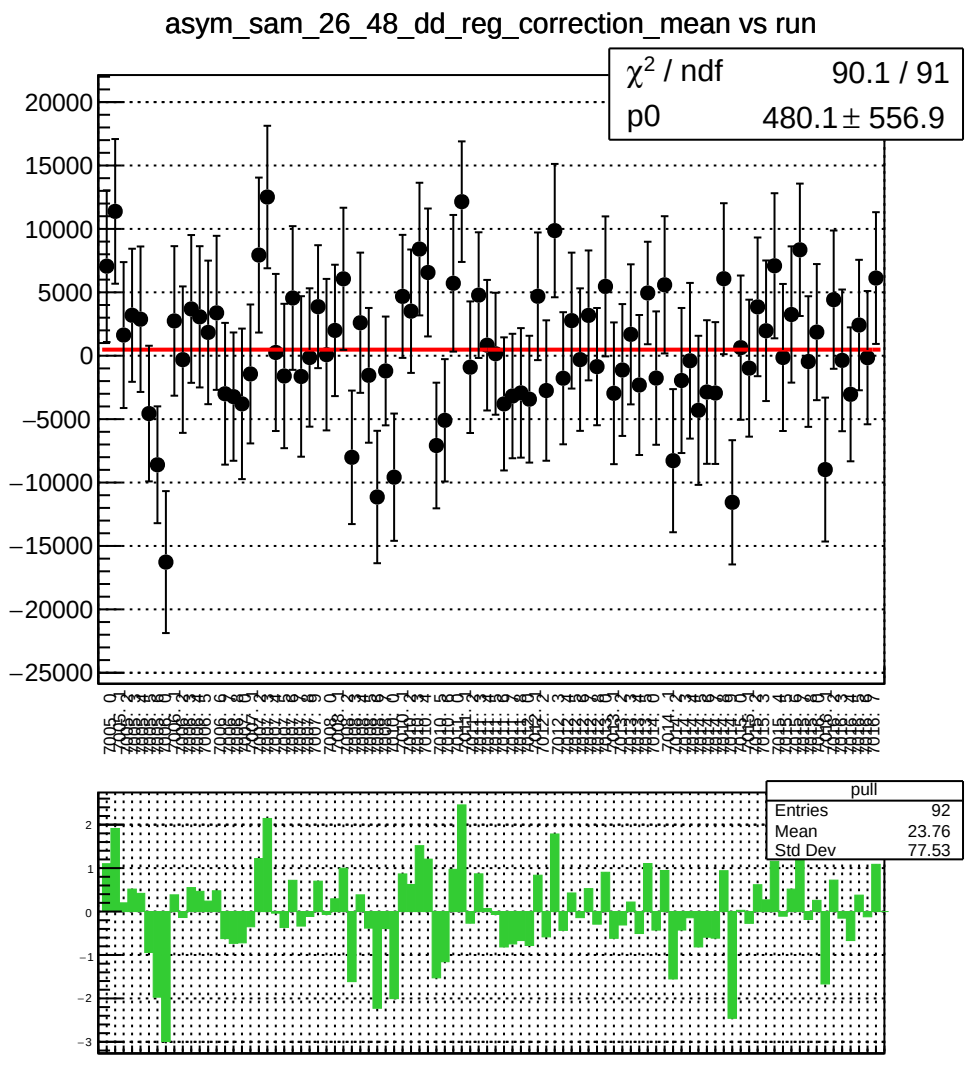

pull1D
Entries 92
Mean −0.1229
Std Dev 1.038

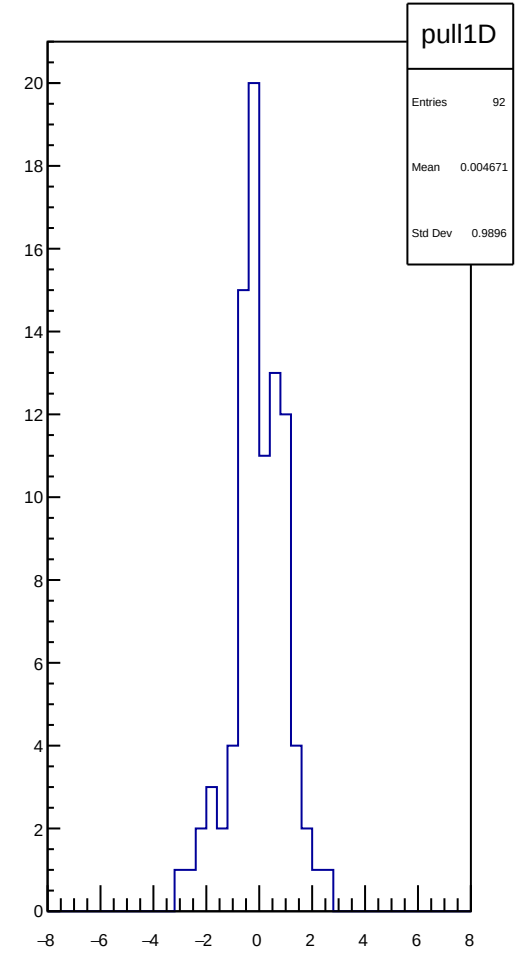

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.615e+05 / 91
p0 9.692e−12 ± 9.924e−15
0.1
0.08
0.06
0.04
0.02

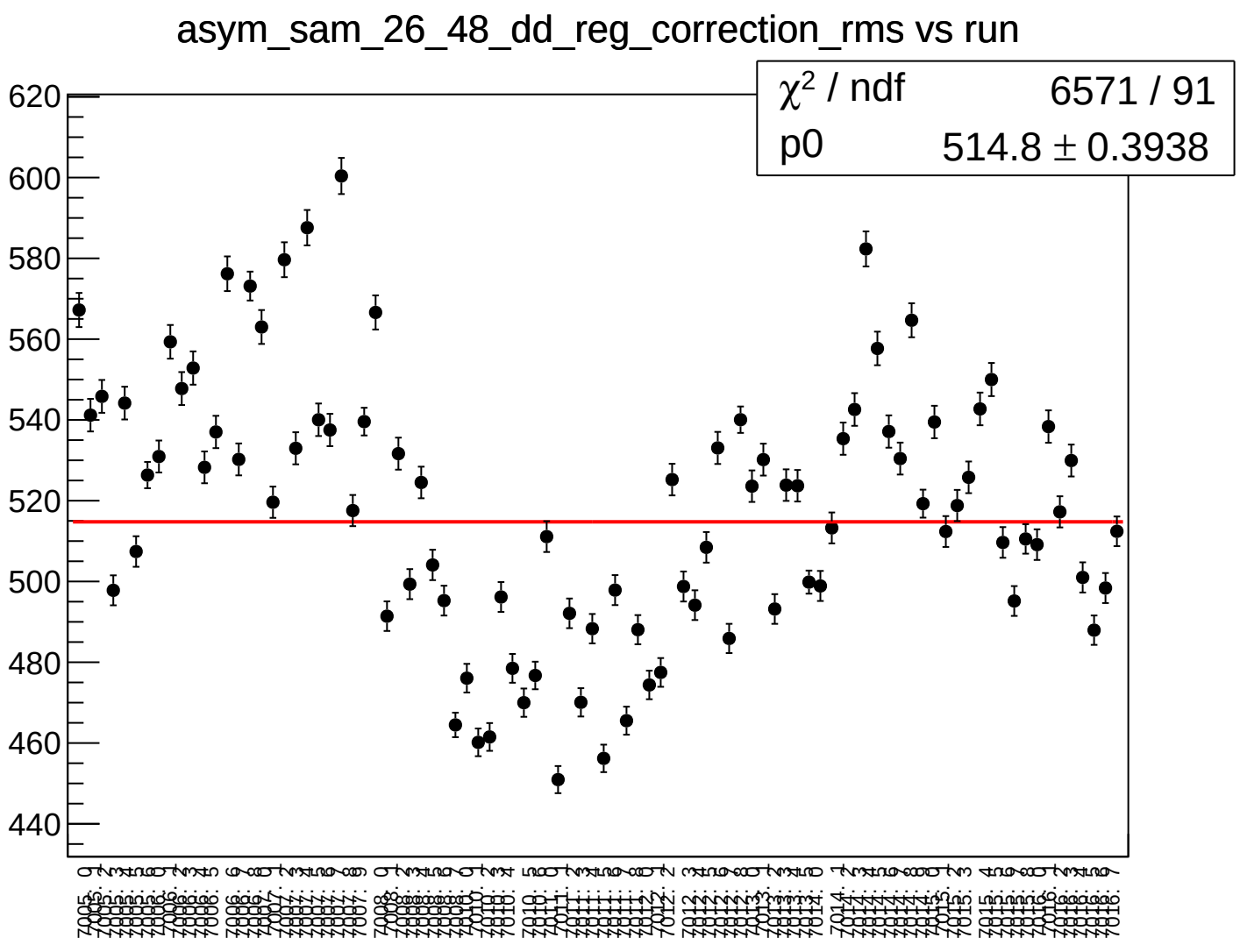

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 67.49 / 91
p0 −88.07 ± 99.93
pull
Entries 92
Mean 312.6
Std Dev 0

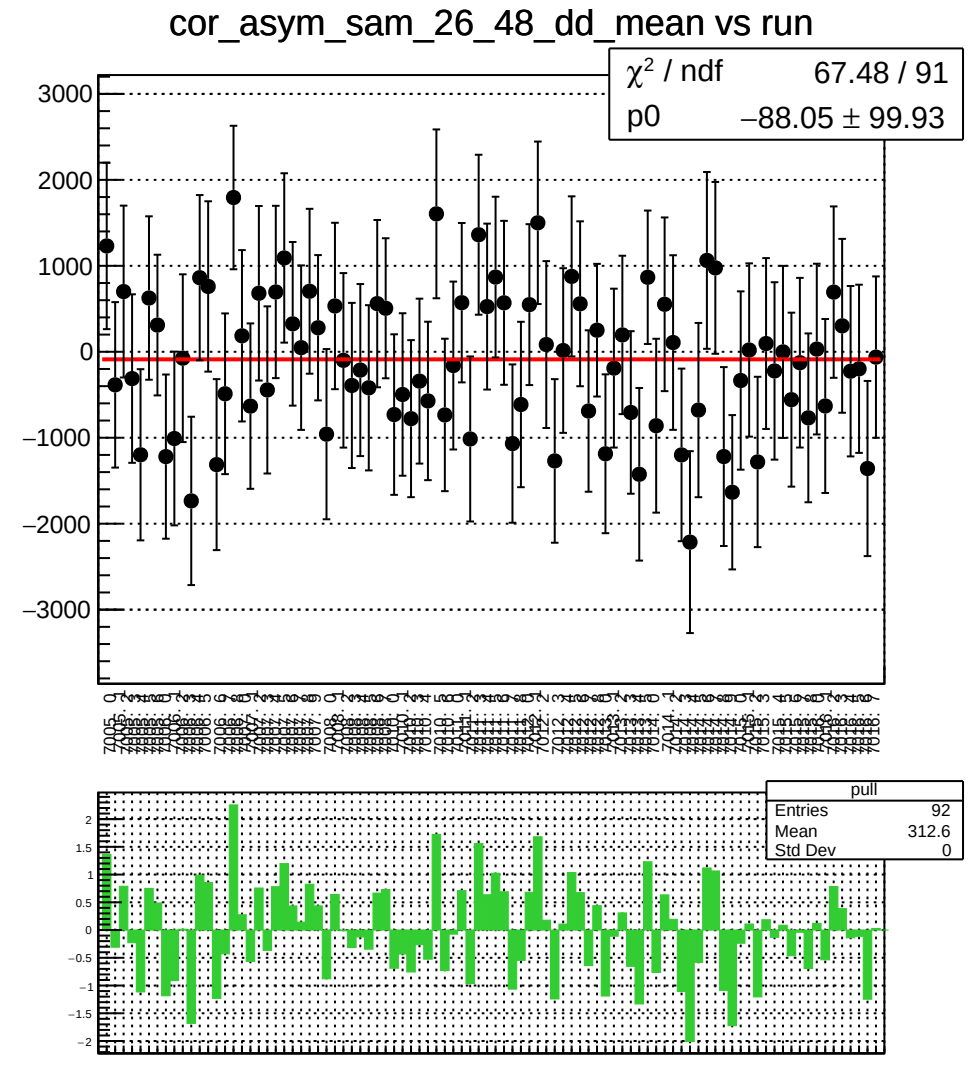

pull1D
Entries 92
Mean −0.01306
Std Dev 0.8564

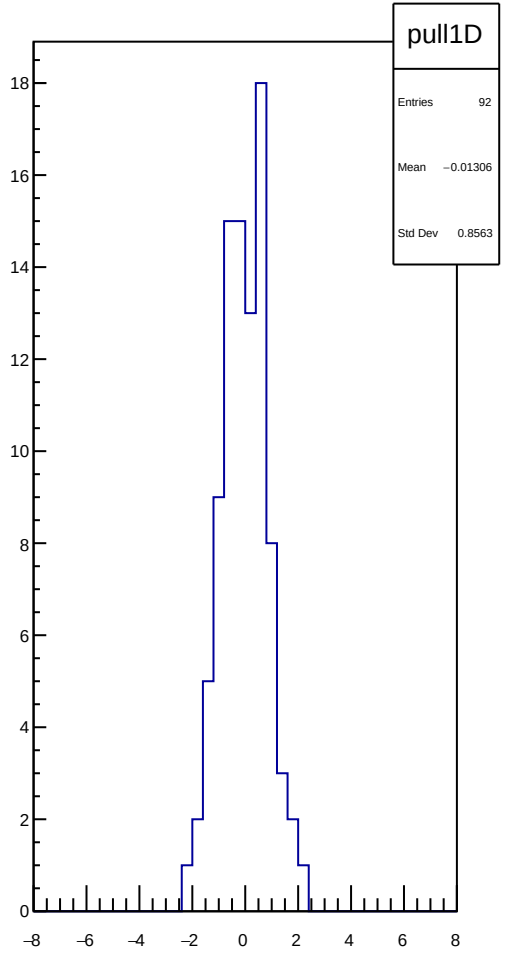

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1896 / 91
p0 92.49 ± 0.07066
102
100
98
96
94
92
90
88
86

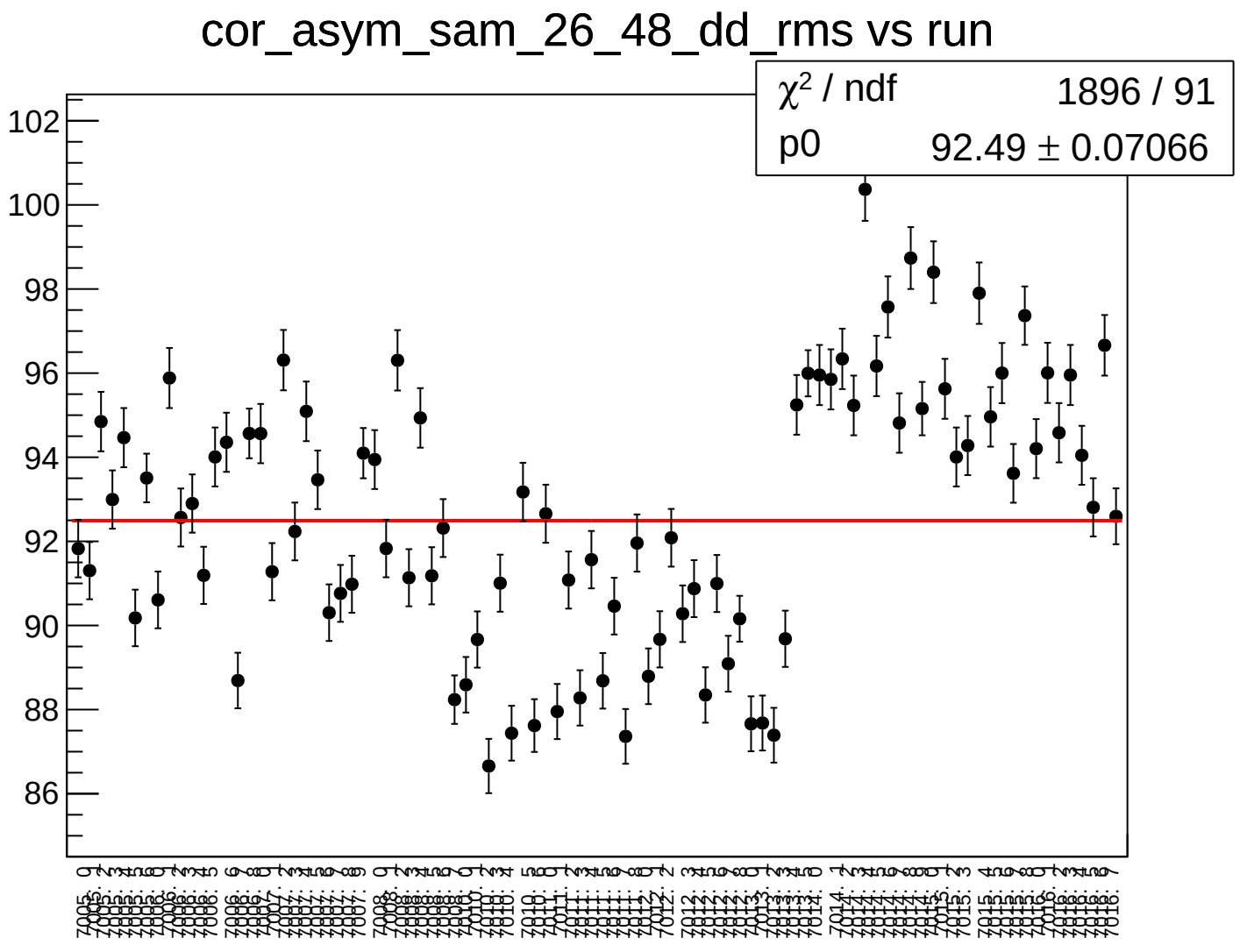

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 90.1 / 91
p0 480.1 ± 556.9
pull
Entries 92
Mean 23.76
Std Dev 77.53

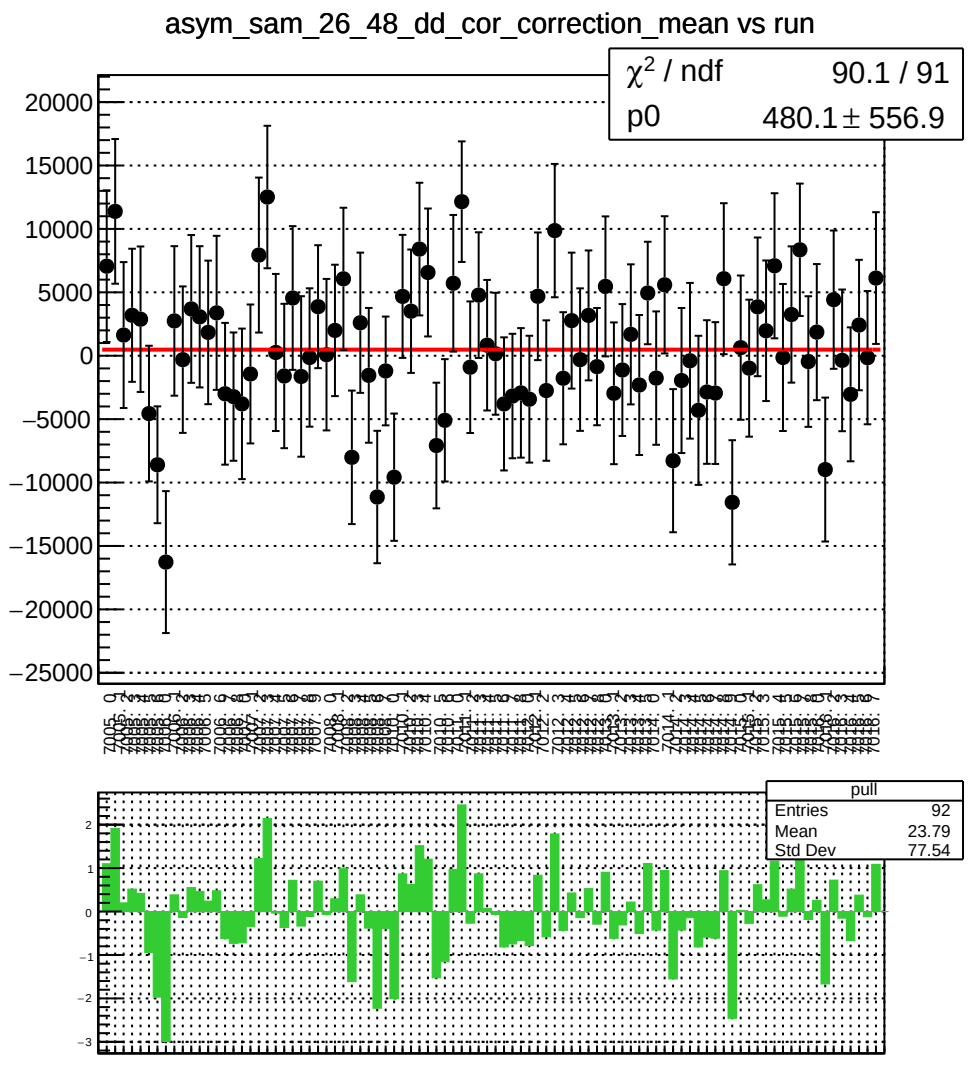

pull1D
Entries 92
Mean 0.004671
Std Dev 0.9896

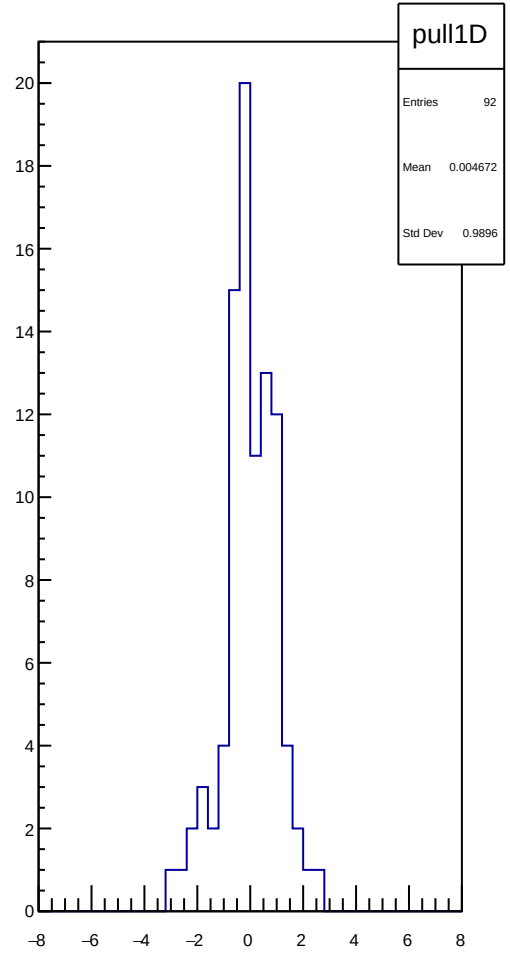

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 6571 / 91
p0 514.8 ± 0.3938
620
600
580
560
540
520
500
480
460
440

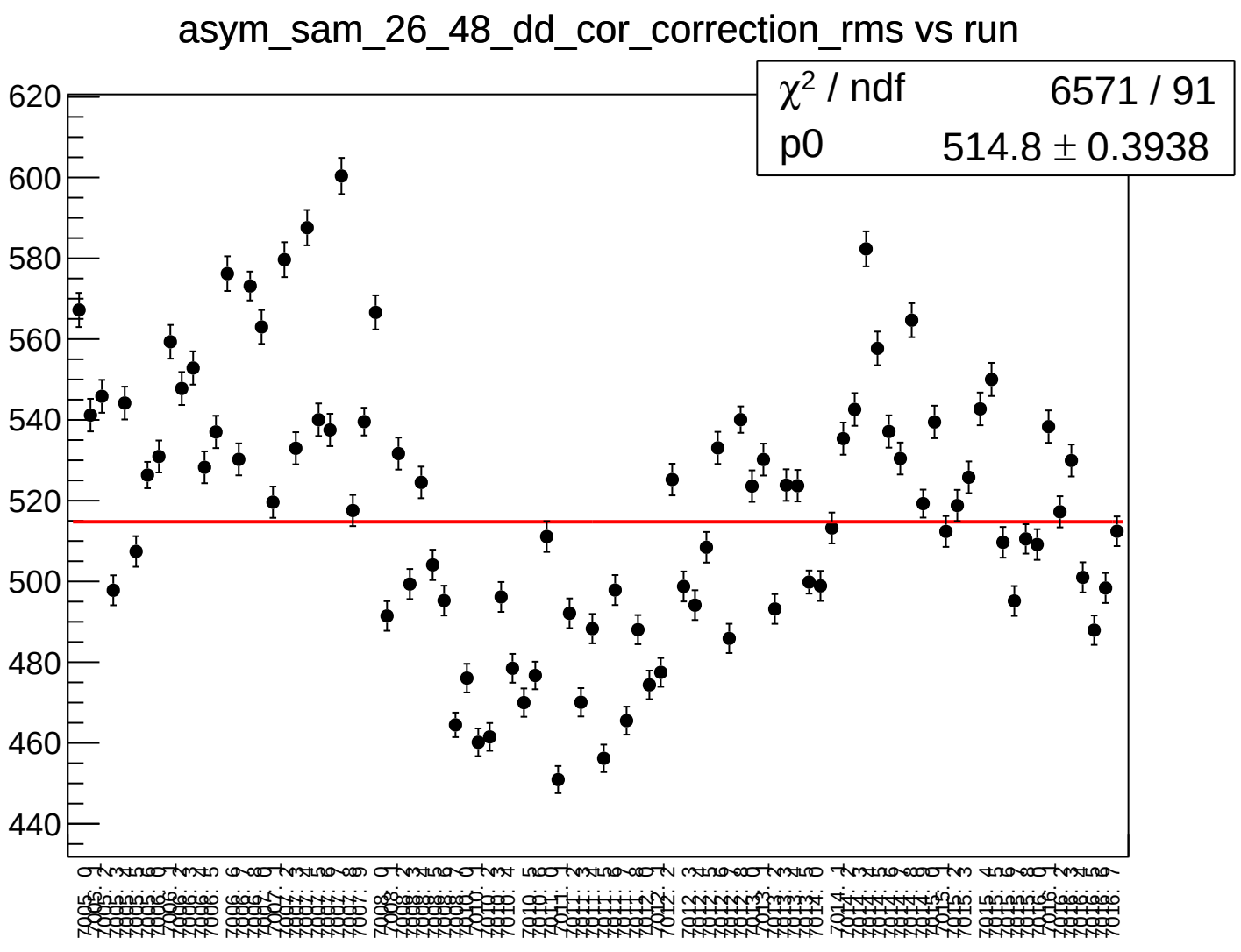

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 67.48 / 91
p0 −88.05 ± 99.93
pull
Entries 92
Mean 312.6
Std Dev 0

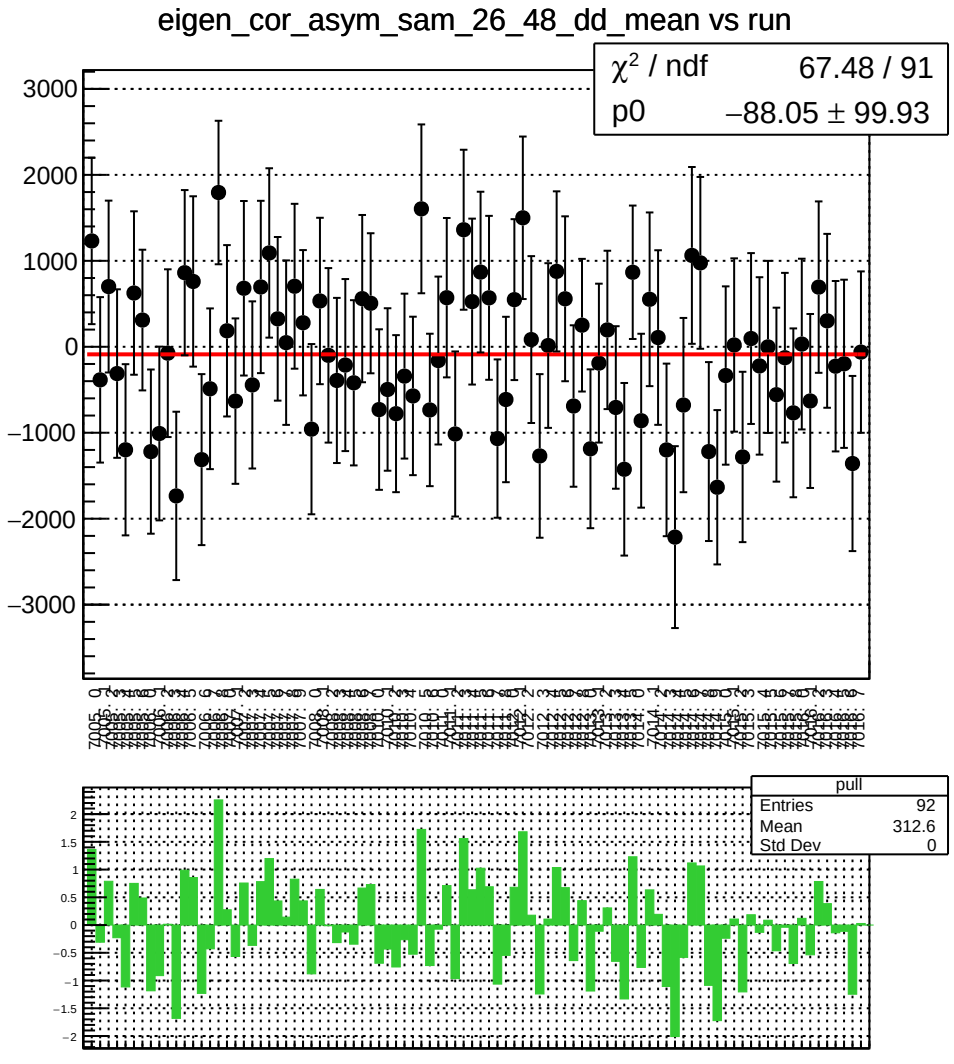

pull1D
Entries 92
Mean −0.01306
Std Dev 0.8563

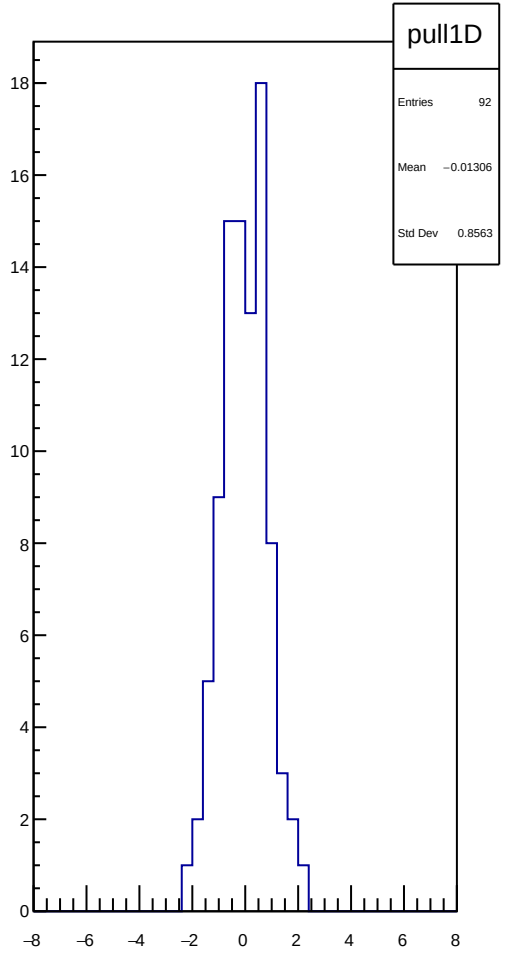

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1896 / 91
p0 92.49 ± 0.07066
102
100
98
96
94
92
90
88
86

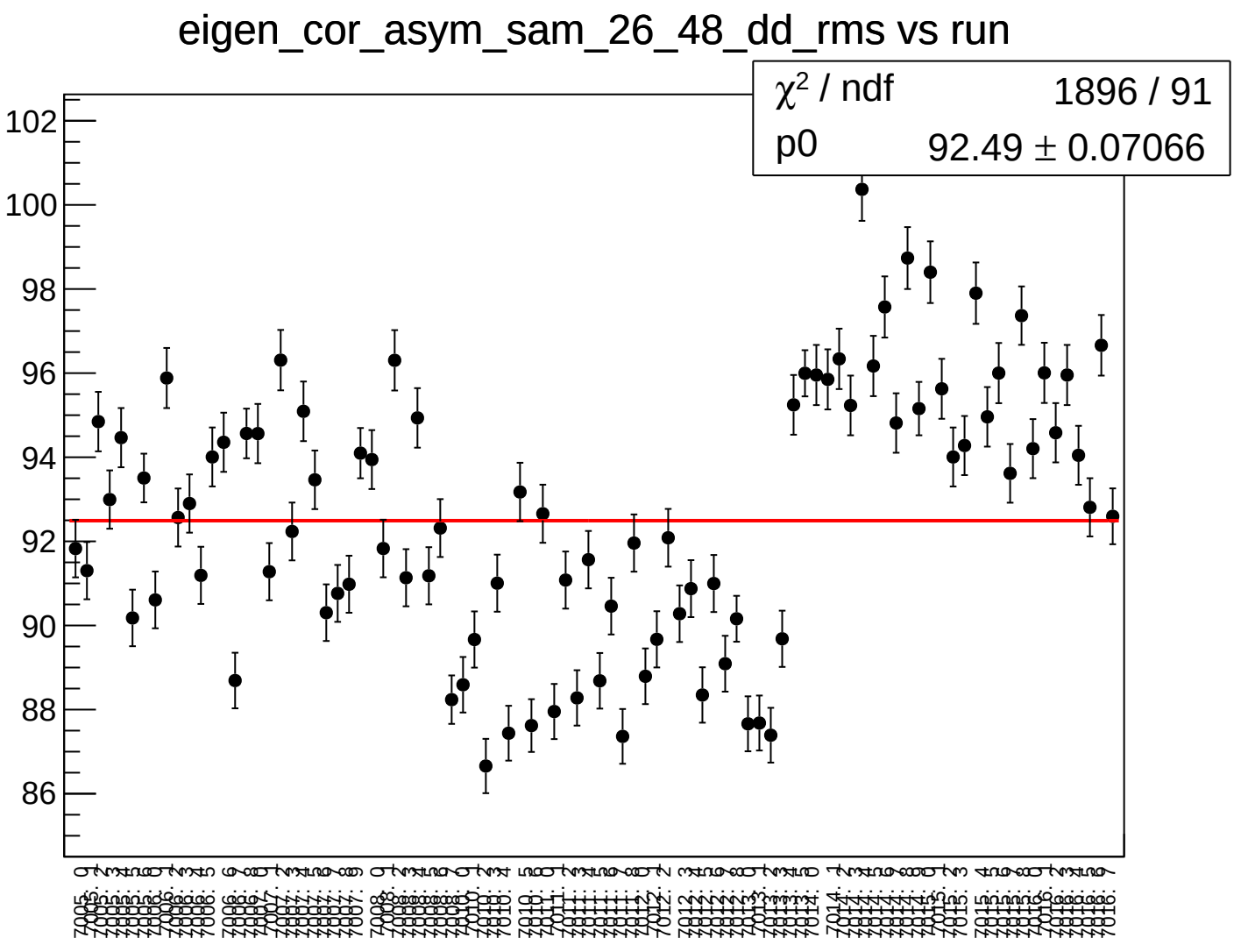

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 90.1 / 91
p0 480.1 ± 556.9
pull
Entries 92
Mean 23.79
Std Dev 77.54

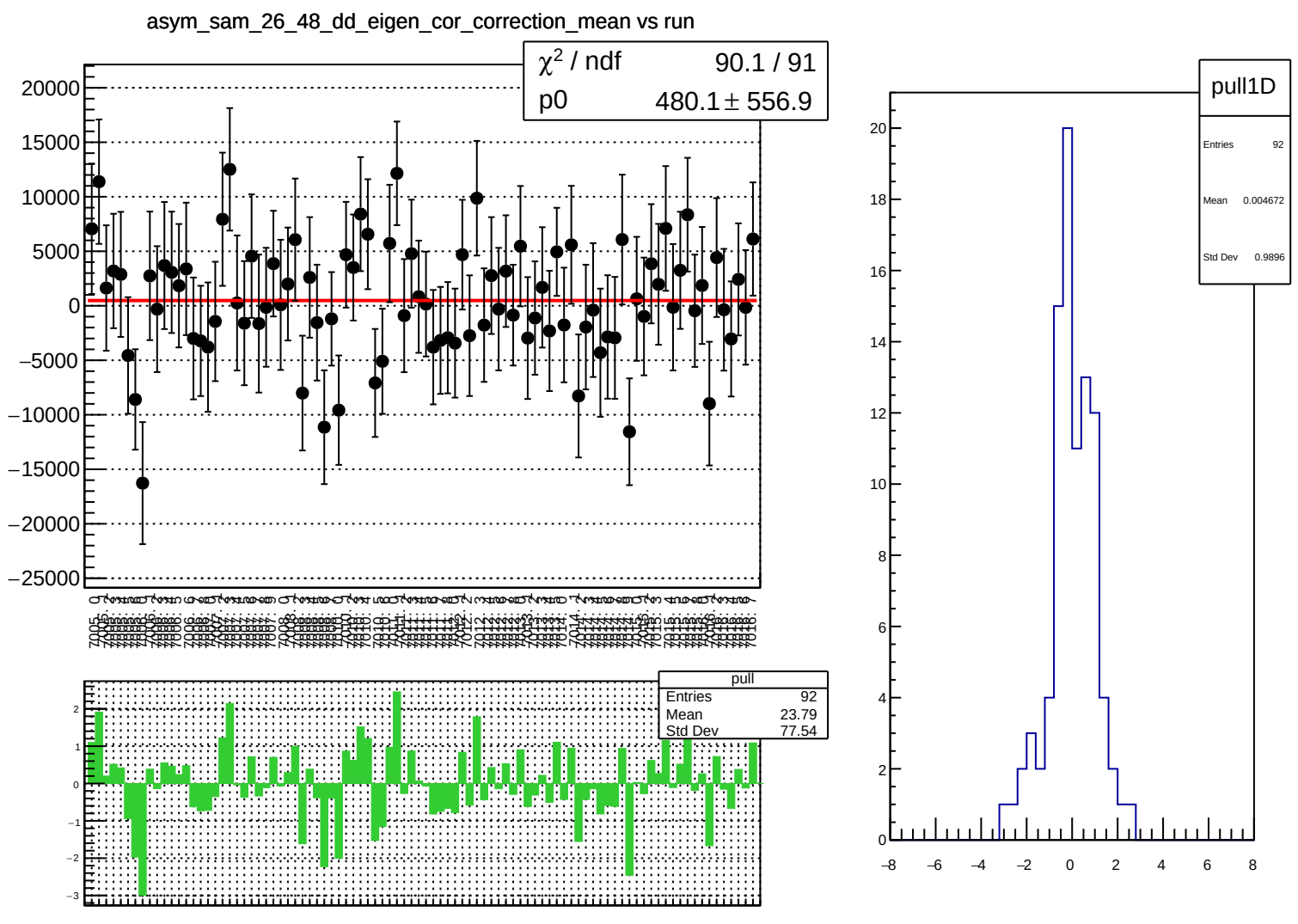

pull1D
Entries 92
Mean 0.004672
Std Dev 0.9896

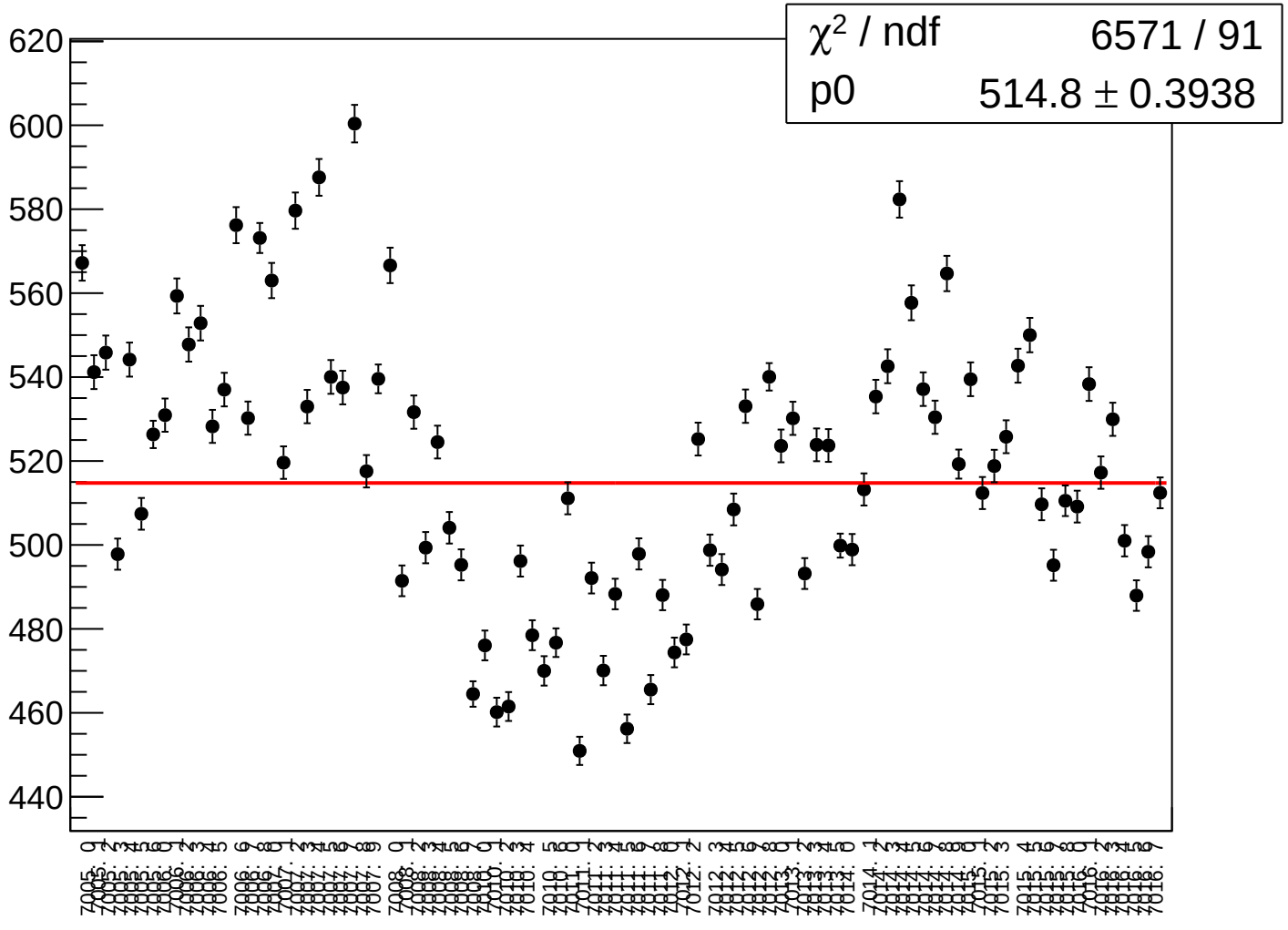

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 6571 / 91
p0 514.8 ± 0.3938
620
600
580
560
540
520
500
480
460
440

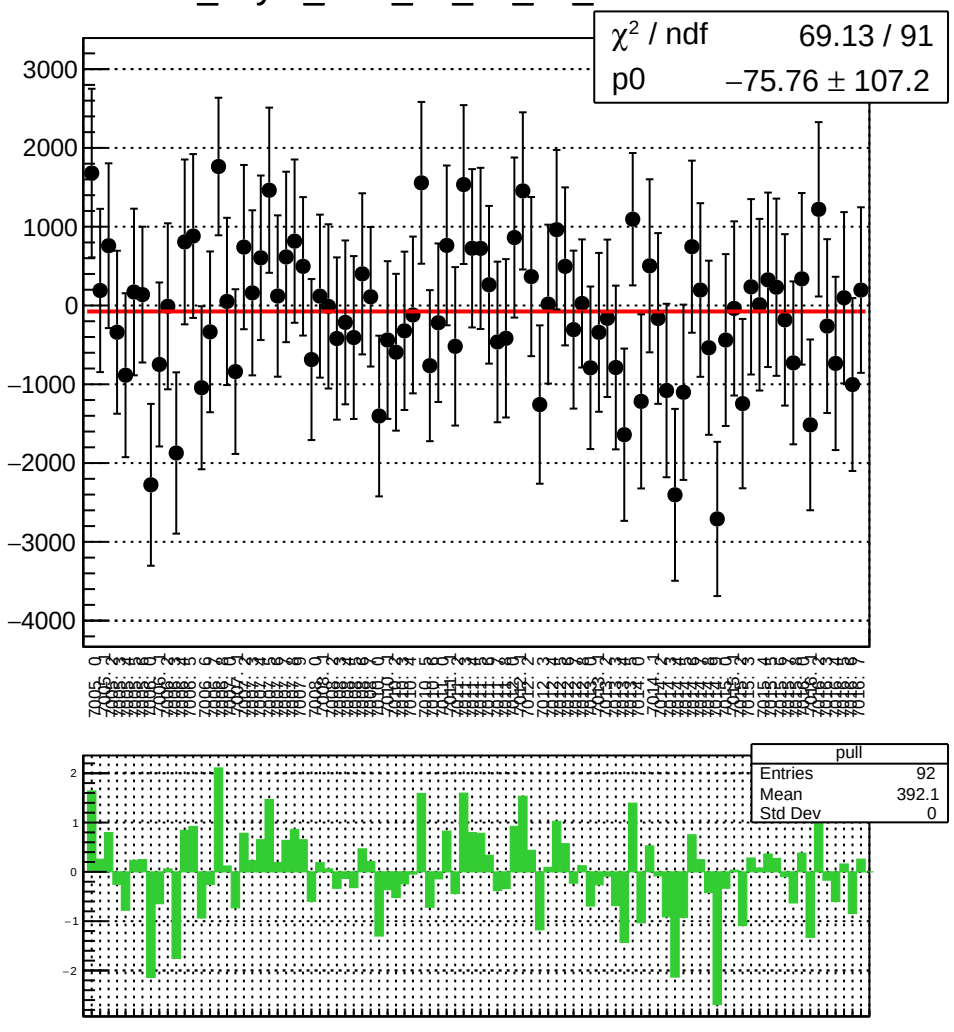

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 67.48 / 91
p0 −88.05 ± 99.93
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 312.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

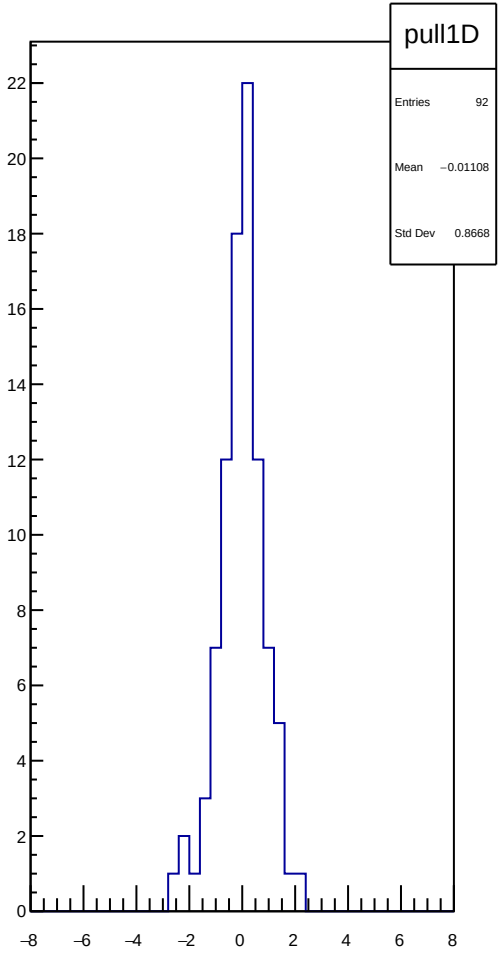

pull1D
Entries 92
Mean −0.01306
Std Dev 0.8563
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

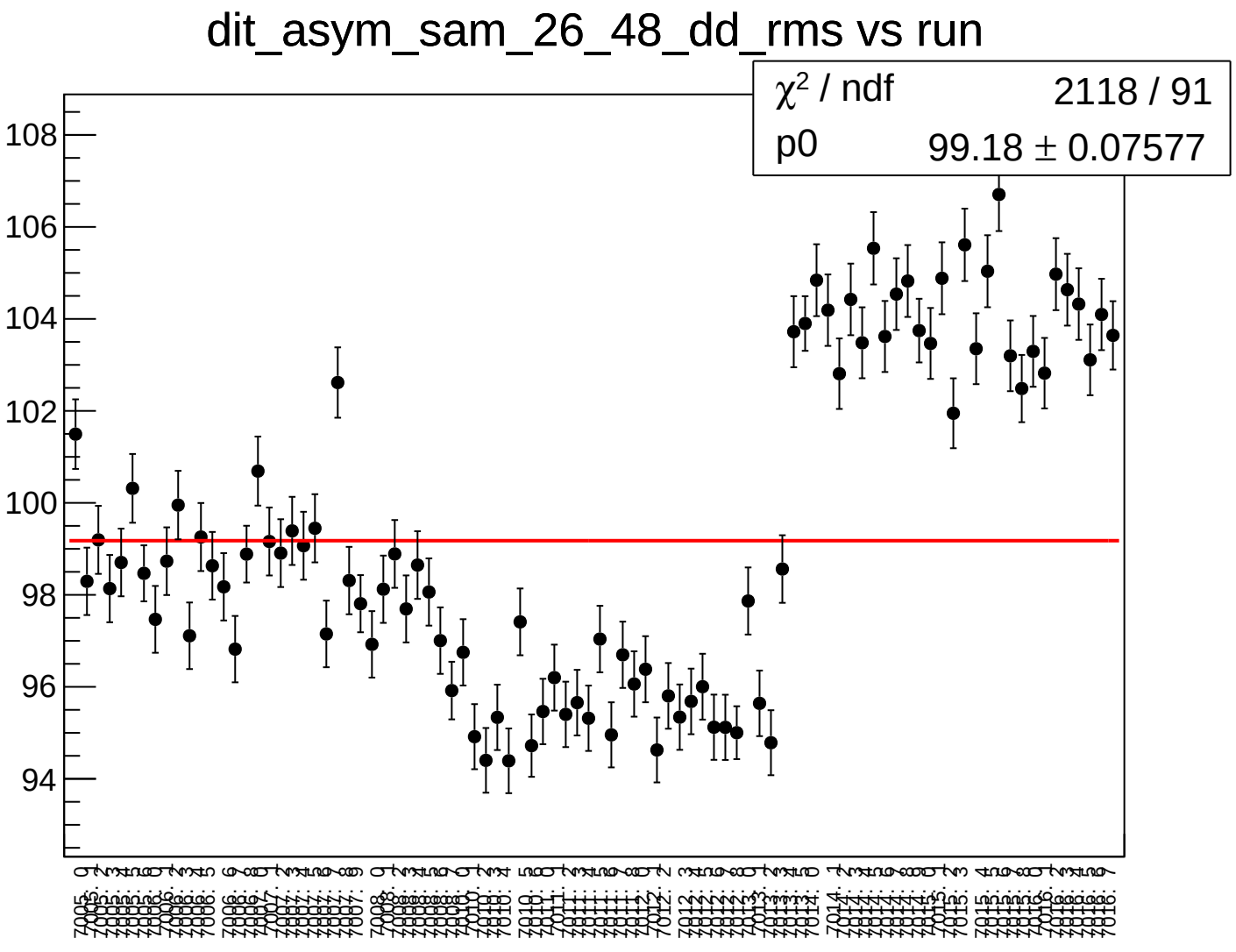

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1896 / 91
p0 92.49 ± 0.07066
102
100
98
96
94
92
90
88
86

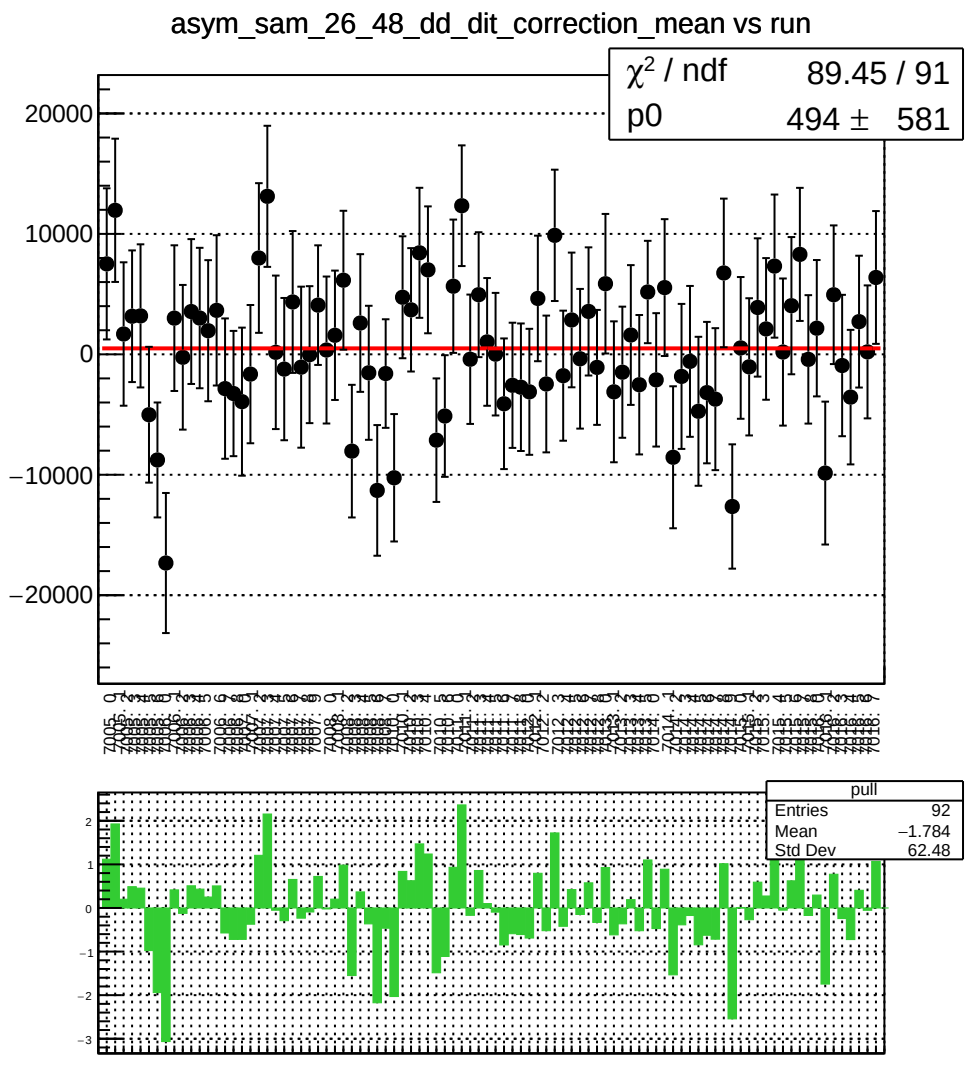

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.1 / 91
p0 480.1 ± 556.9
pull
Entries 92
Mean 23.79
Std Dev 77.54
pull1D
Entries 92
Mean 0.004672
Std Dev 0.9896

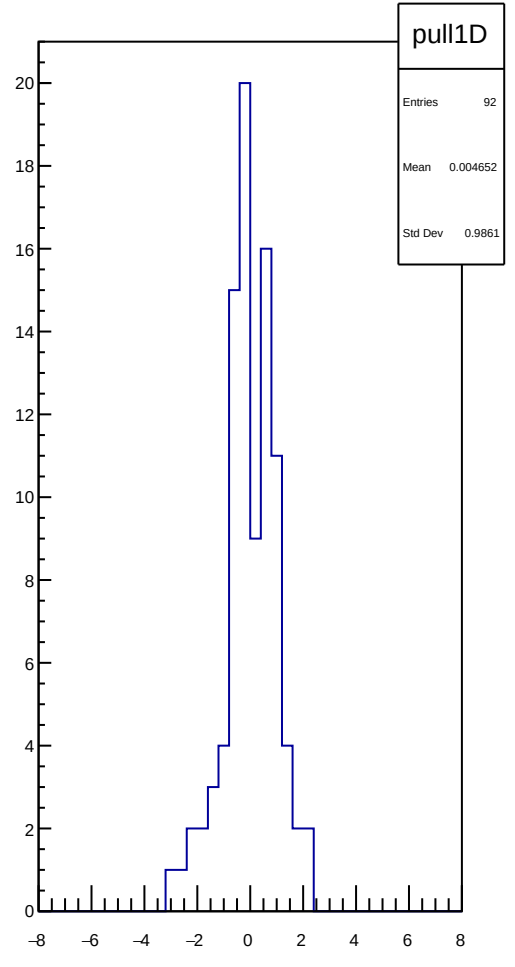

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6571 / 91
p0 514.8 ± 0.3938
620
600
580
560
540
520
500
480
460
440

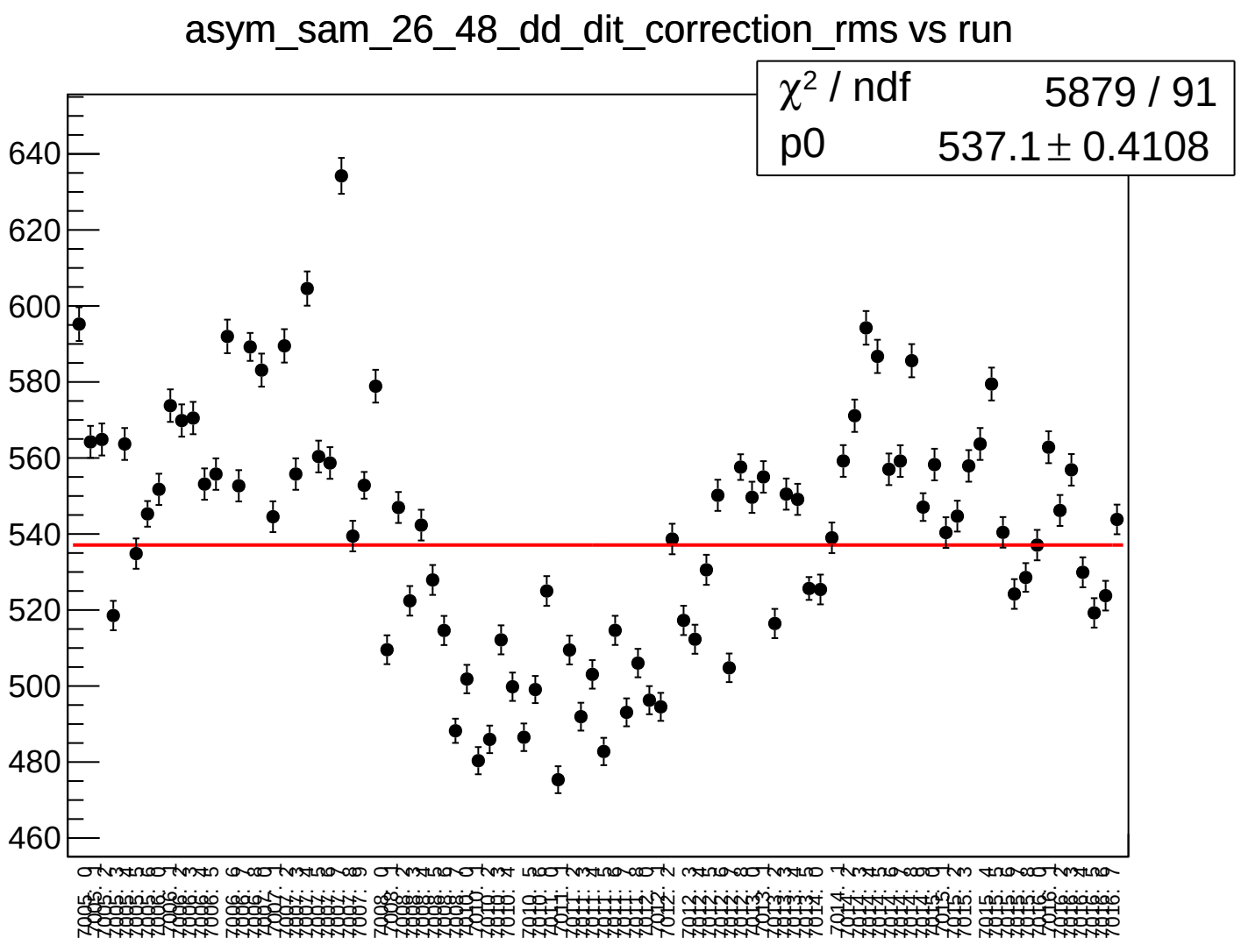

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 69.13 / 91
p0 −75.76 ± 107.2
pull
Entries 92
Mean 392.1
Std Dev 0

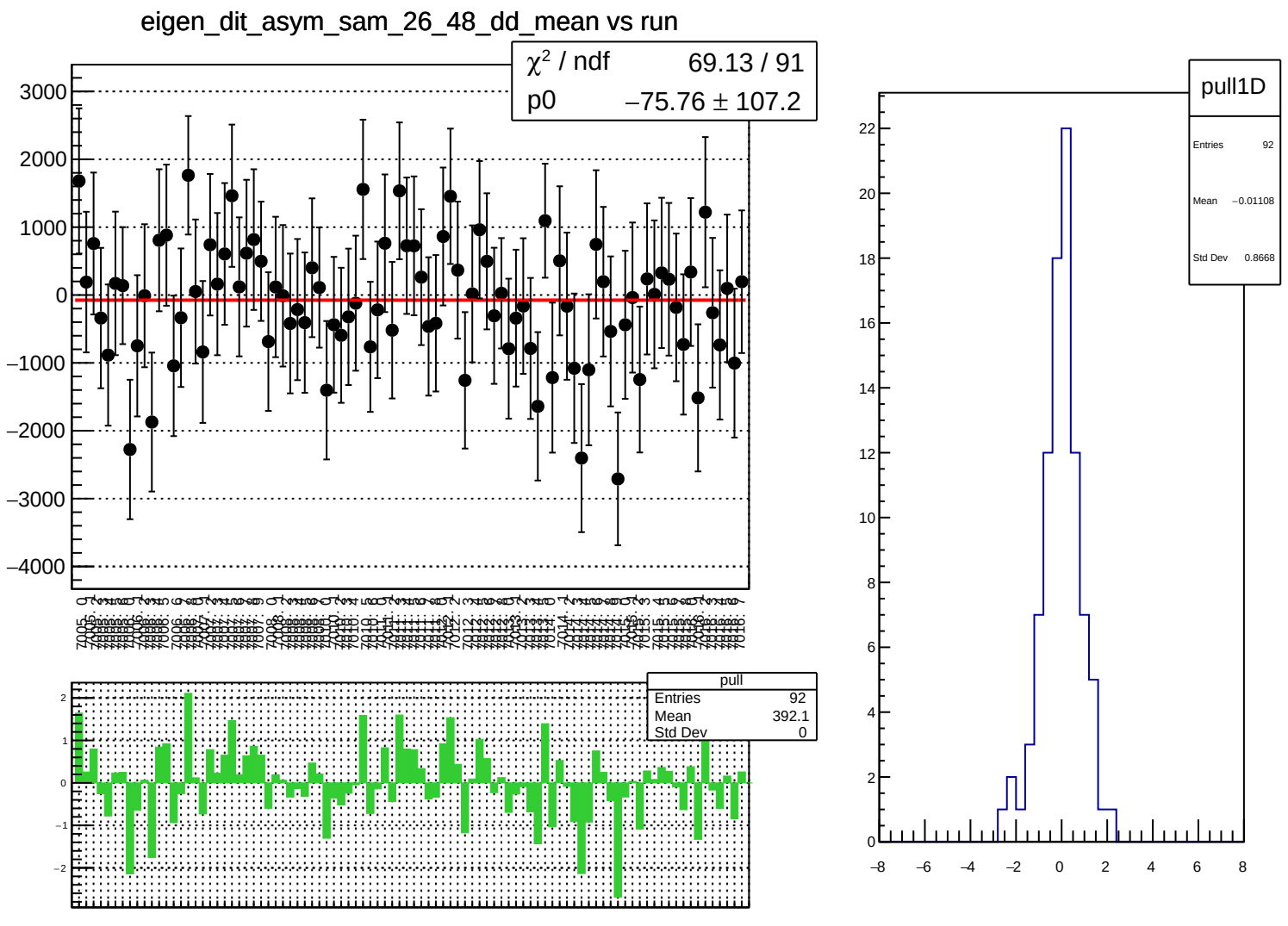

pull1D
Entries 92
Mean −0.01108
Std Dev 0.8668

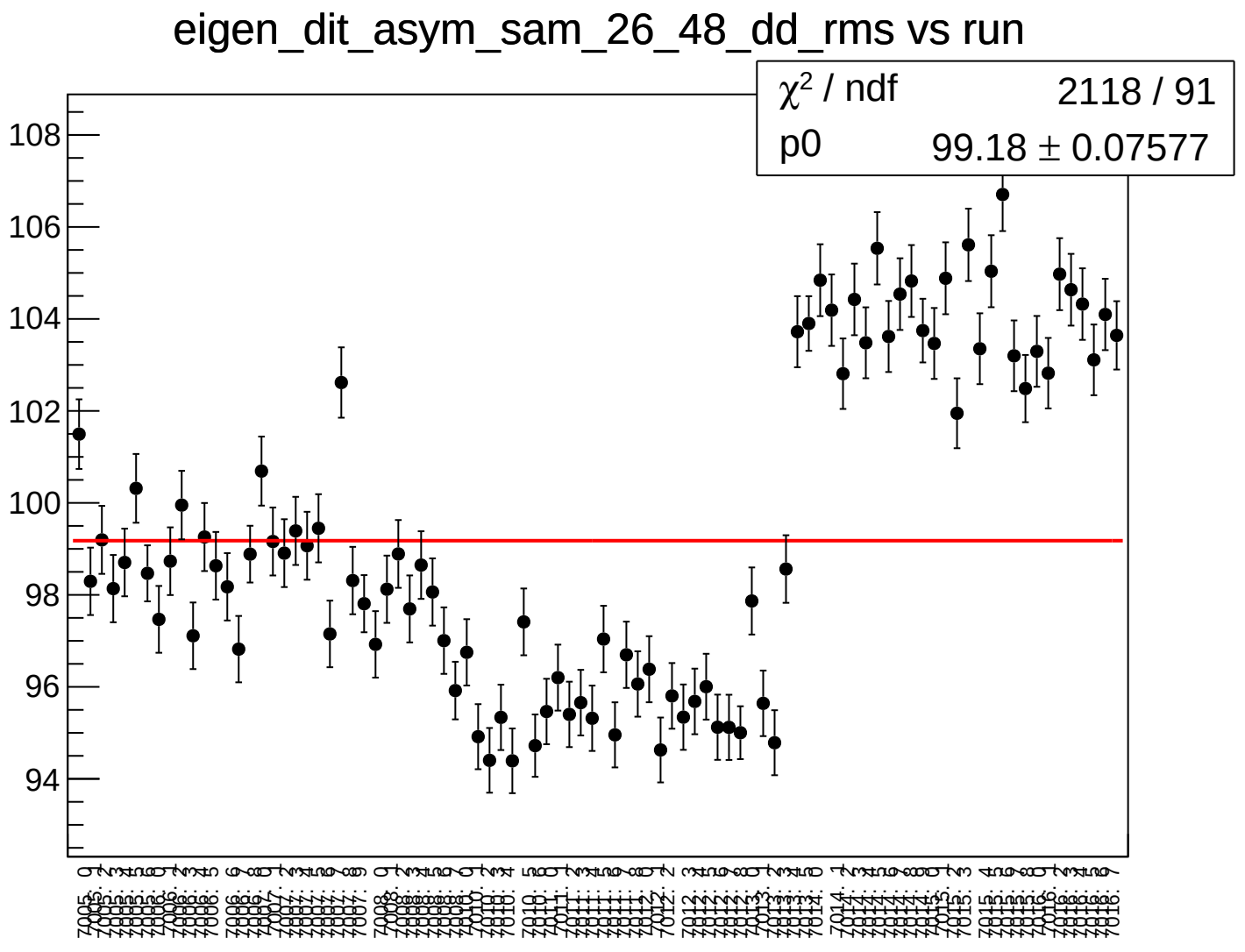

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2118 / 91
p0 99.18 ± 0.07577
108
106
104
102
100
98
96
94

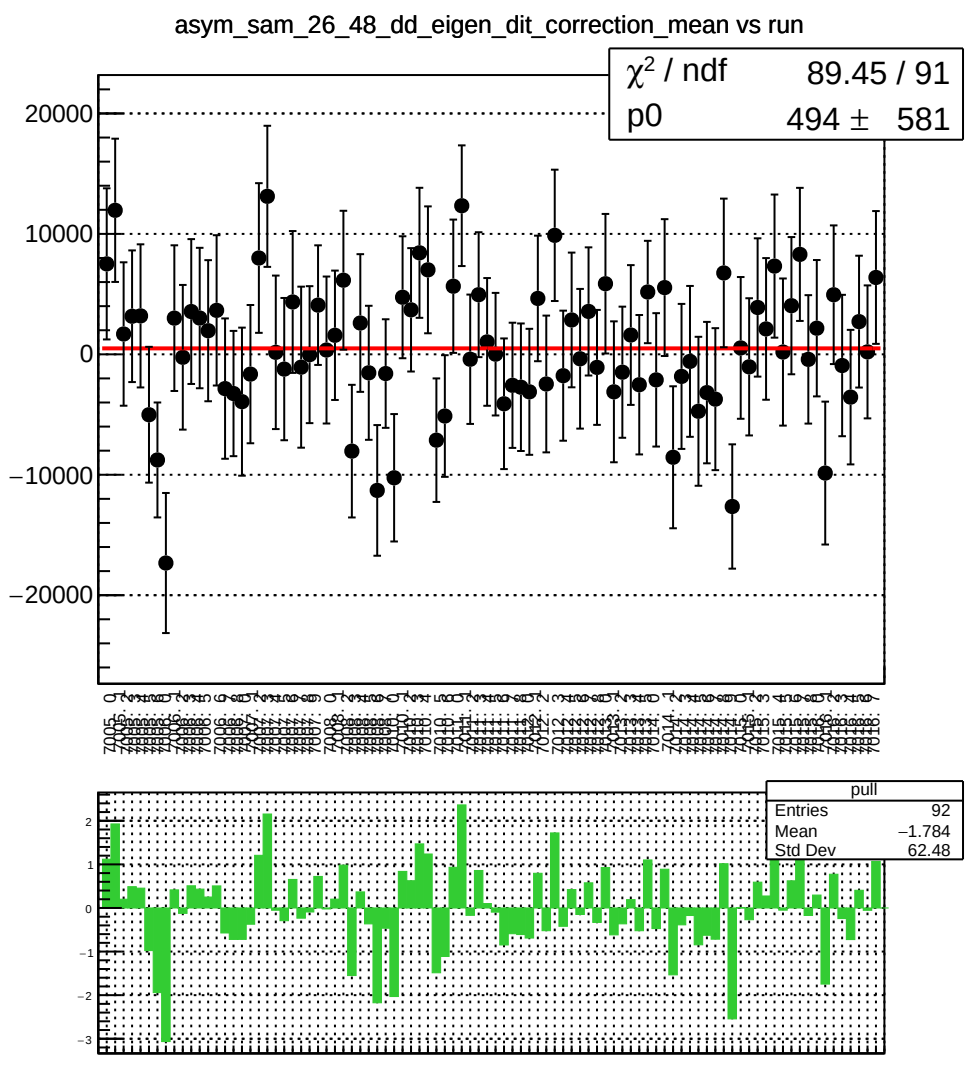

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 89.45 / 91
p0 494 ± 581
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1.784
Std Dev 62.48
2
1
0
−1
−2
−3

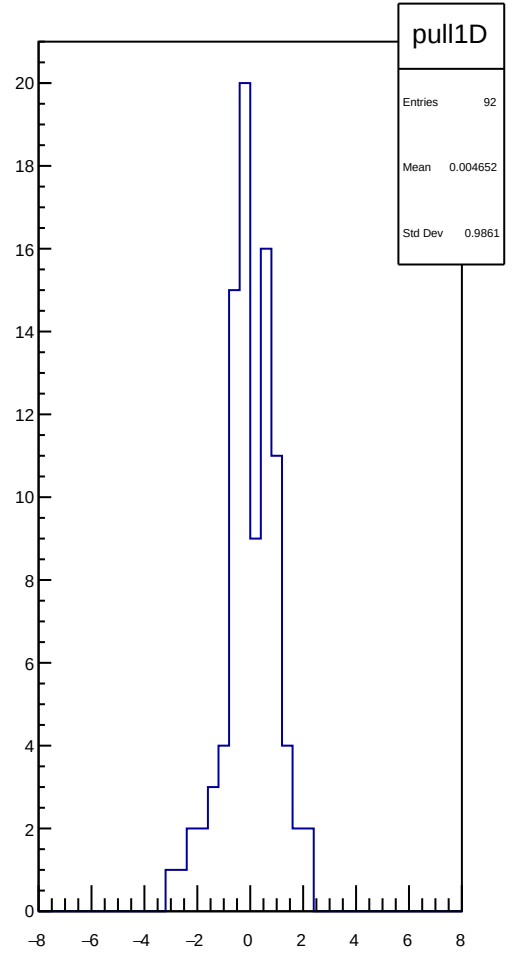

pull1D
Entries 92
Mean 0.004652
Std Dev 0.9861
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

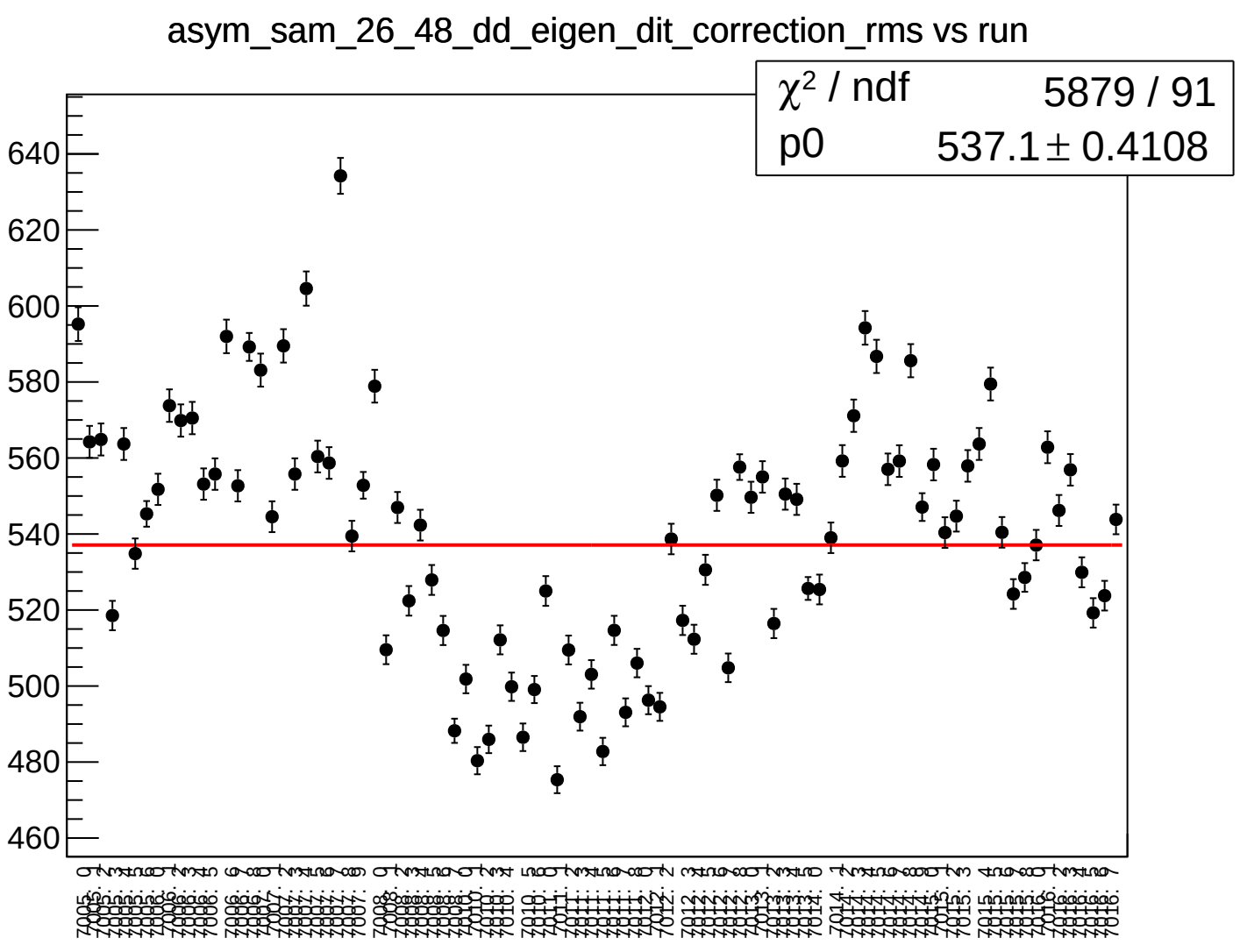

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 5879 / 91
p0 537.1 ± 0.4108
640
620
600
580
560
540
520
500
480
460

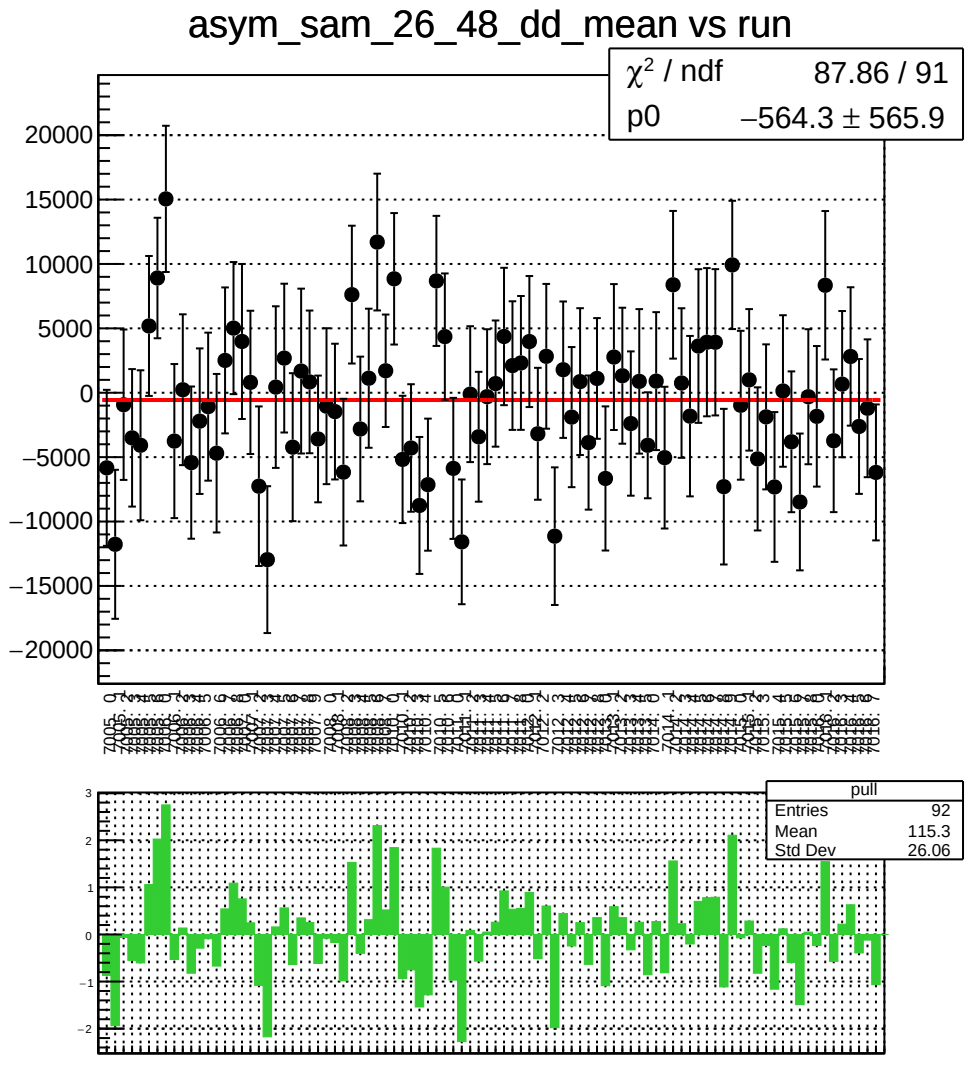

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 69.13 / 91
p0 −75.76 ± 107.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean 392.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01108
Std Dev 0.8668
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

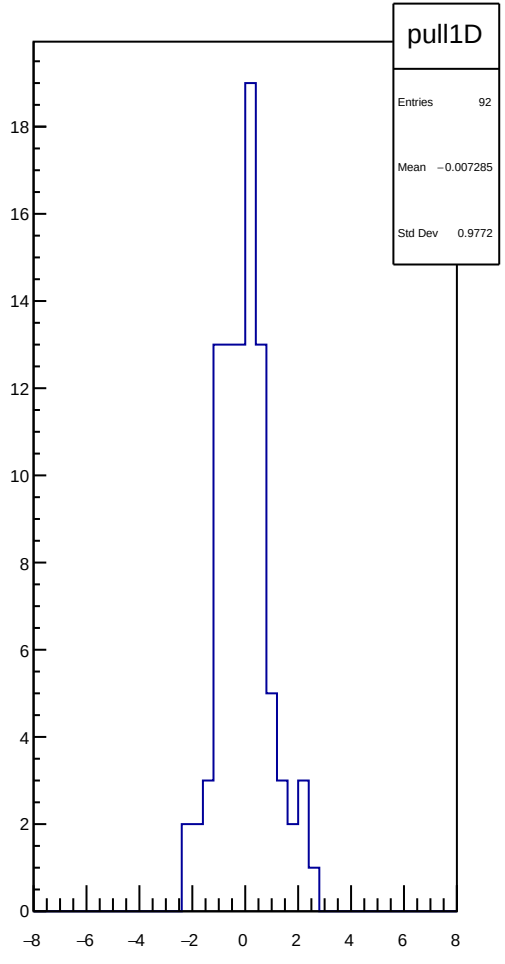

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 2118 / 91
p0 99.18 ± 0.07577
108
106
104
102
100
98
96
94

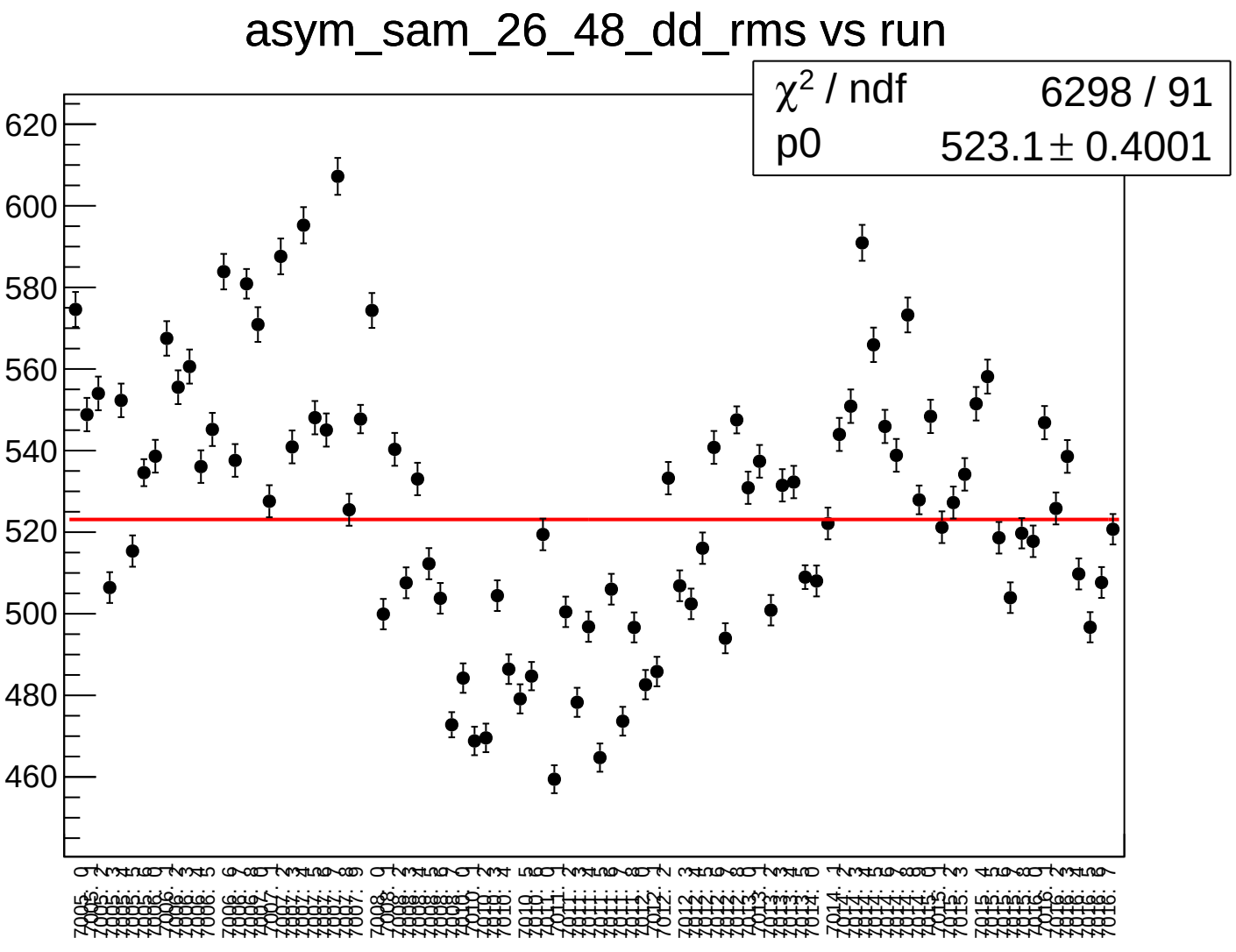

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 89.45 / 91
p0 494 ± 581
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −1.784
Std Dev 62.48
2
1
0
−1
−2
−3

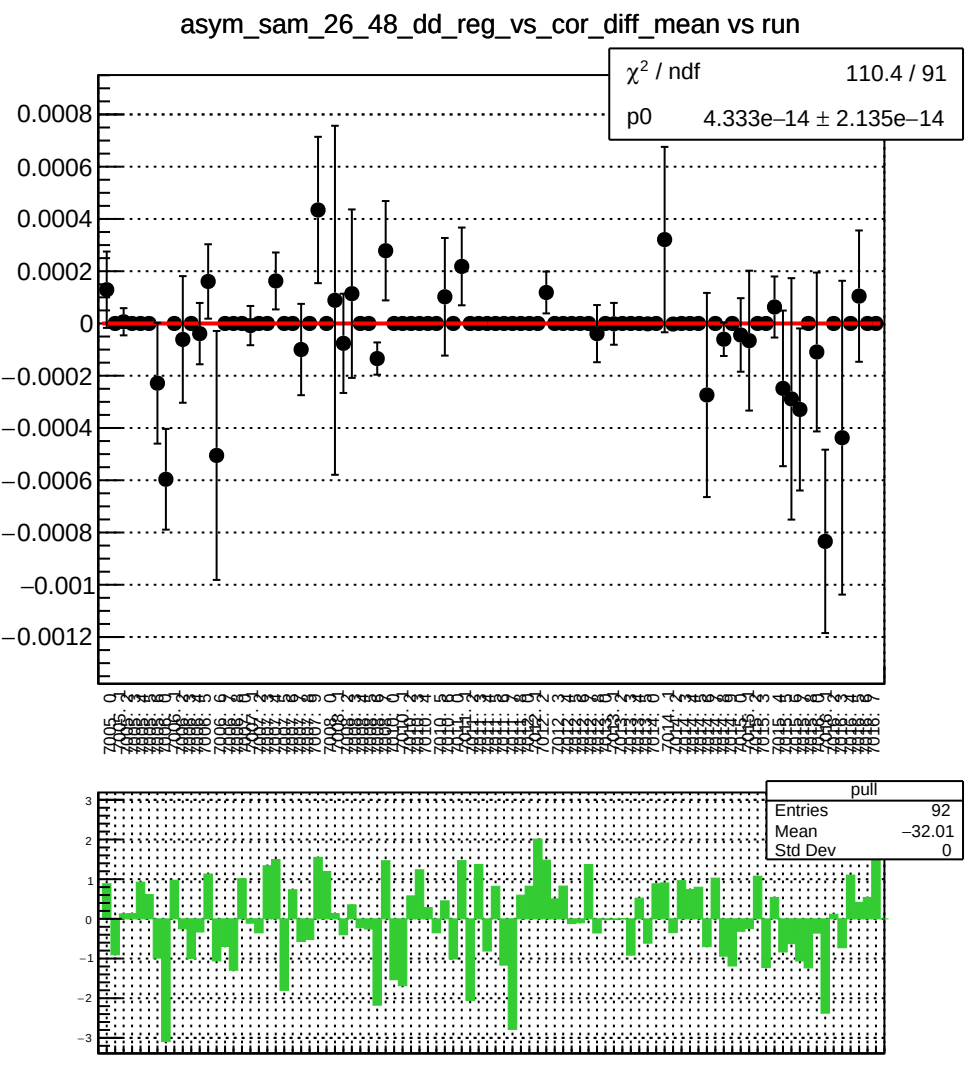

pull1D
Entries 92
Mean 0.004652
Std Dev 0.9861
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

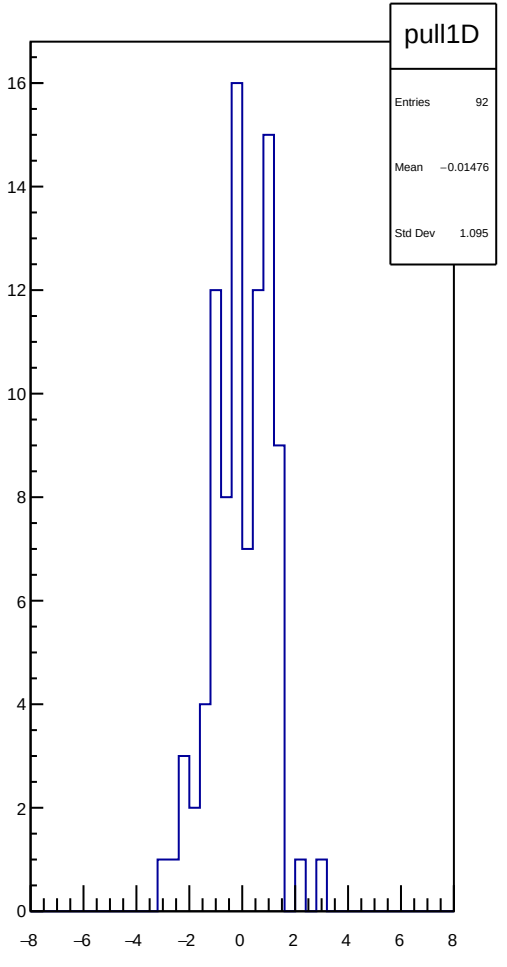

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5879 / 91
p0 537.1 ± 0.4108
640
620
600
580
560
540
520
500
480
460

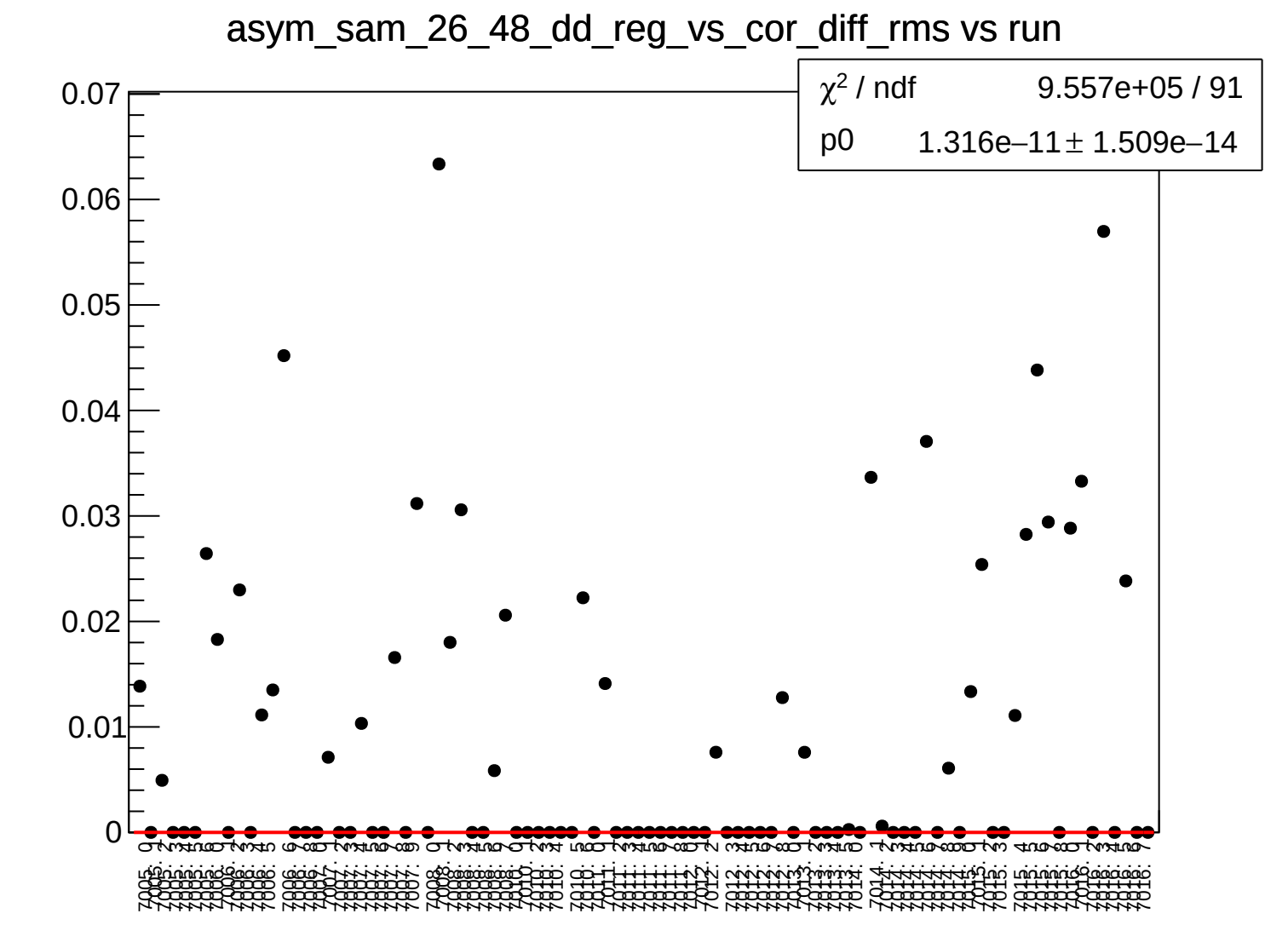

asym_sam_26_48_dd_mean vs run
χ² / ndf 87.86 / 91
p0 −564.3 ± 565.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 115.3
Std Dev 26.06
3
2
1
0
−1
−2

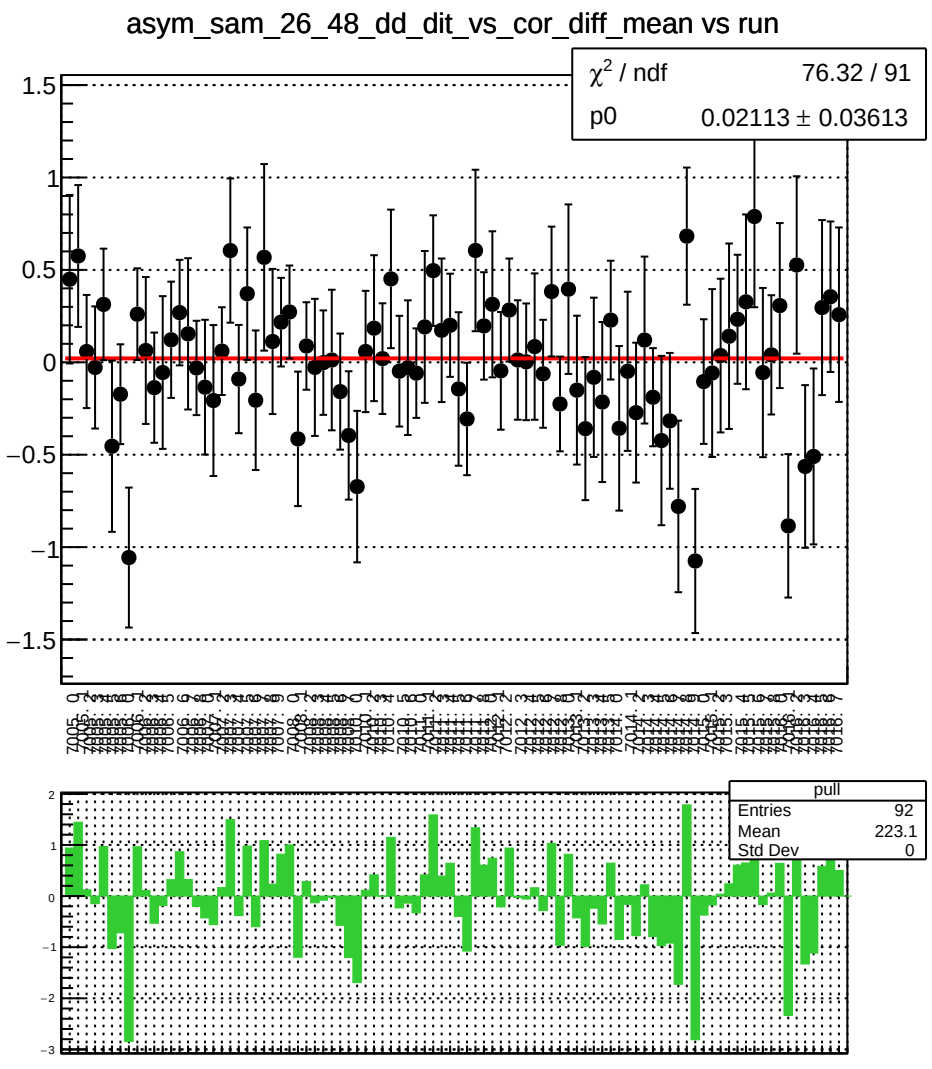

pull1D
Entries 92
Mean −0.007285
Std Dev 0.9772
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

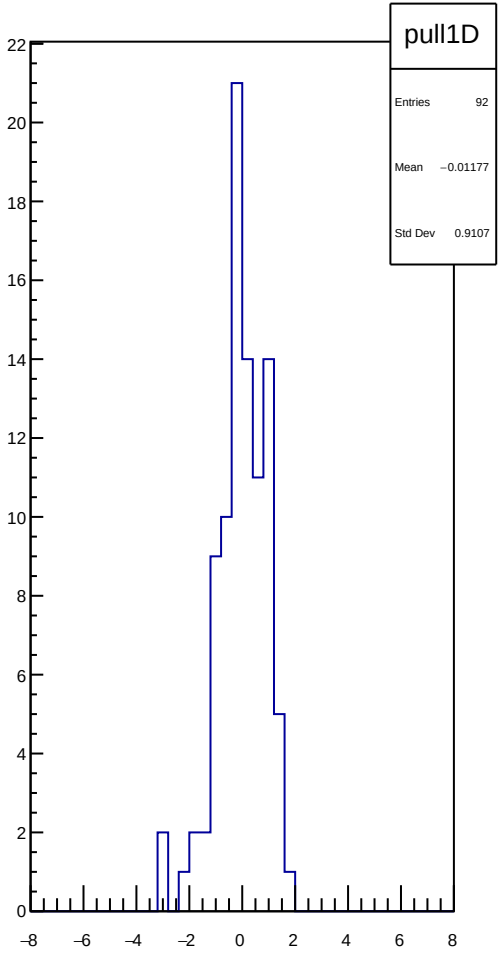

asym_sam_26_48_dd_rms vs run
χ² / ndf 6298 / 91
p0 523.1 ± 0.4001
620
600
580
560
540
520
500
480
460

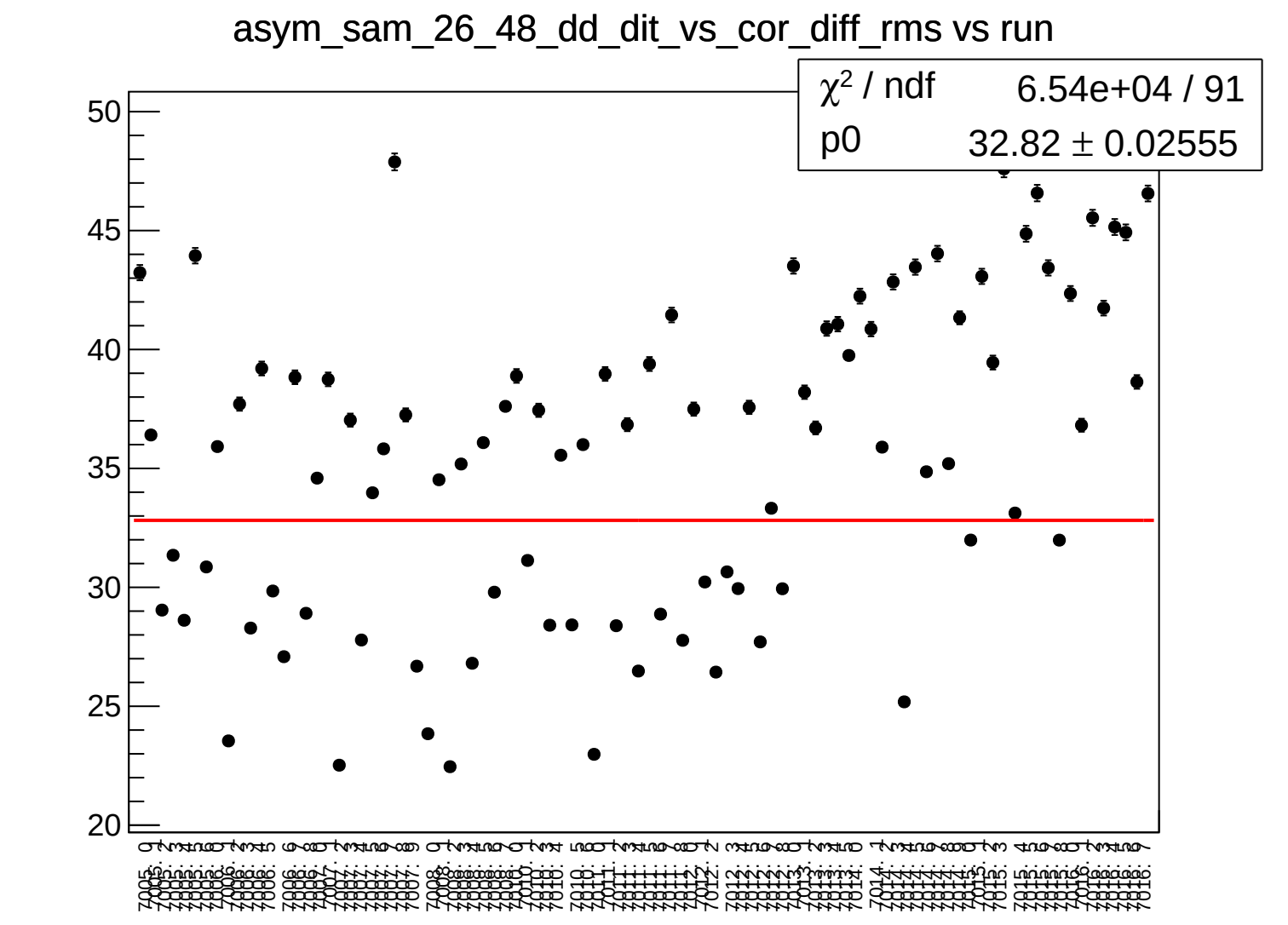

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 91
p0 4.333e−14 ± 2.135e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 92
Mean −32.01
Std Dev 0
3
2
1
0
−1
−2
−3

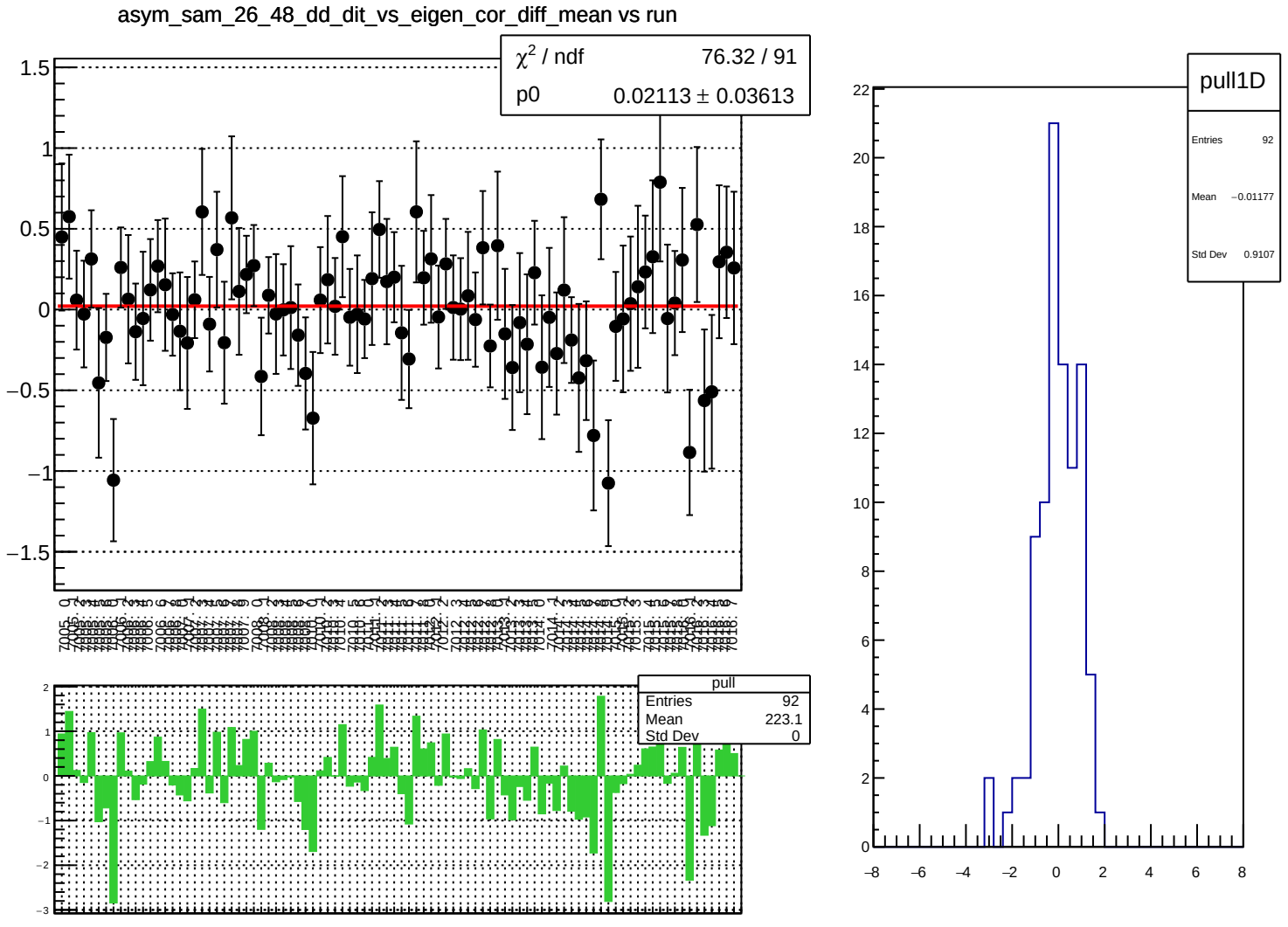

pull1D
Entries 92
Mean −0.01476
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

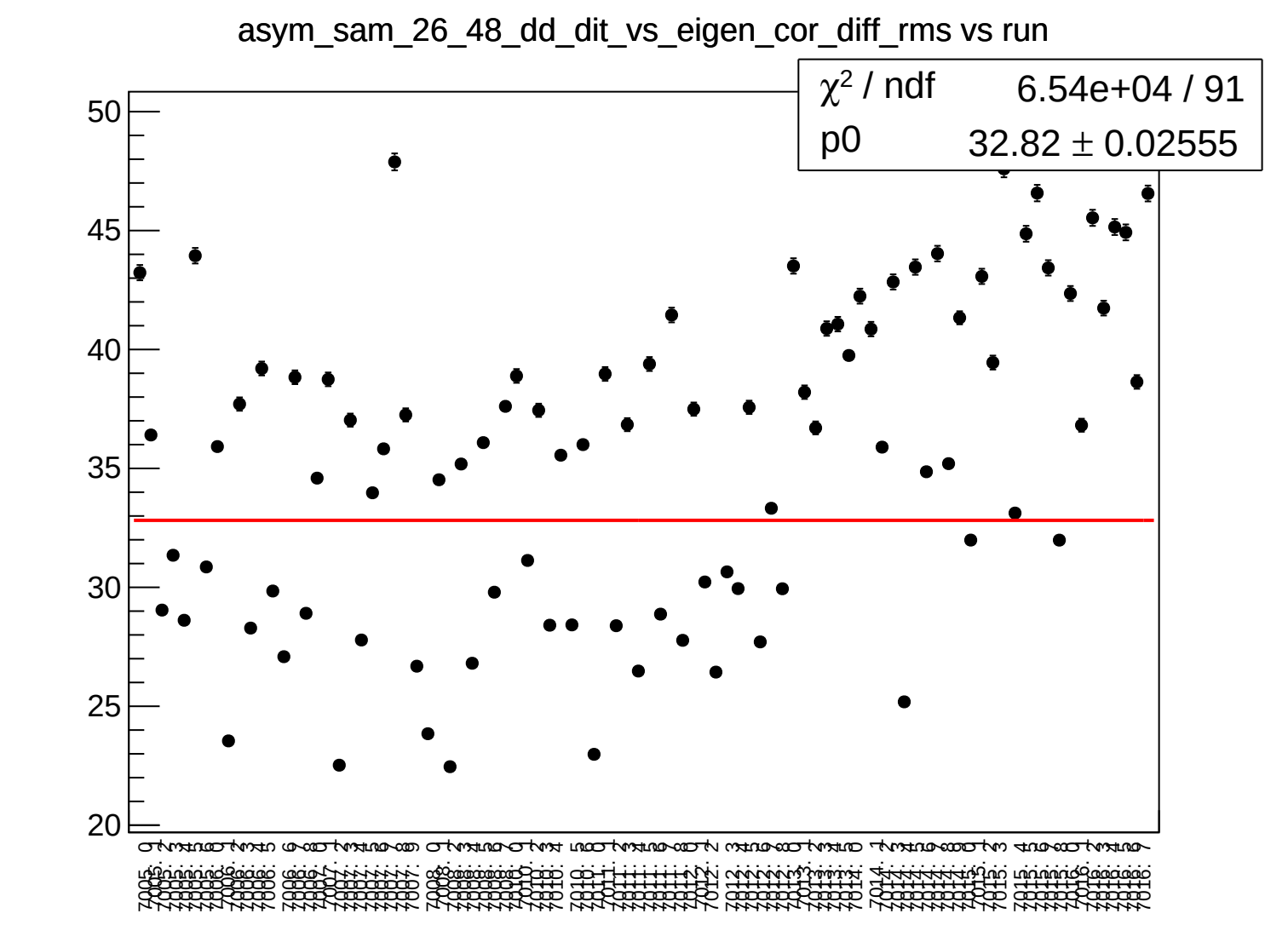

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.557e+05 / 91
p0 1.316e−11 ± 1.509e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

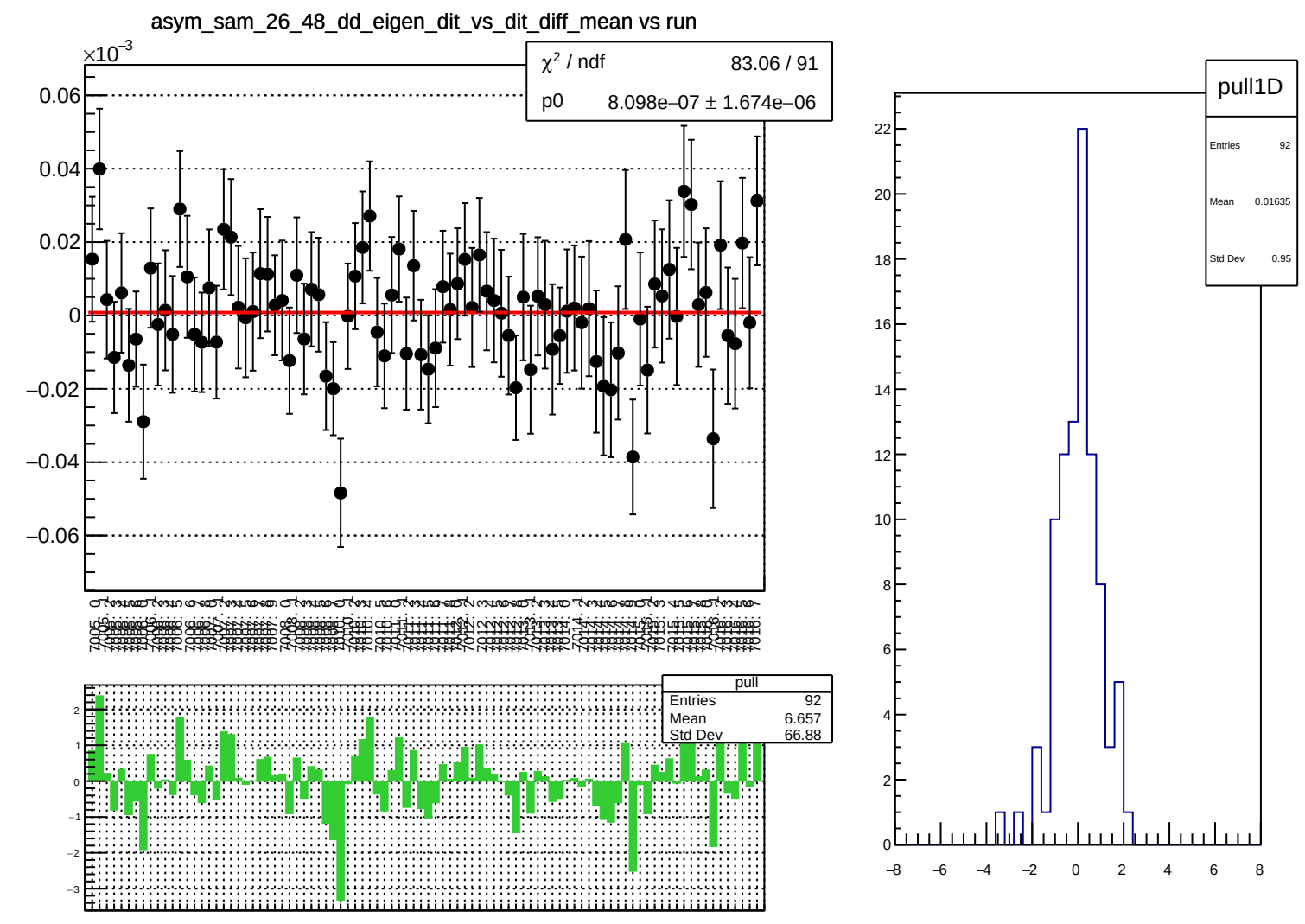

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.32 / 91
p0 0.02113 ± 0.03613
pull
Entries 92
Mean 223.1
Std Dev 0

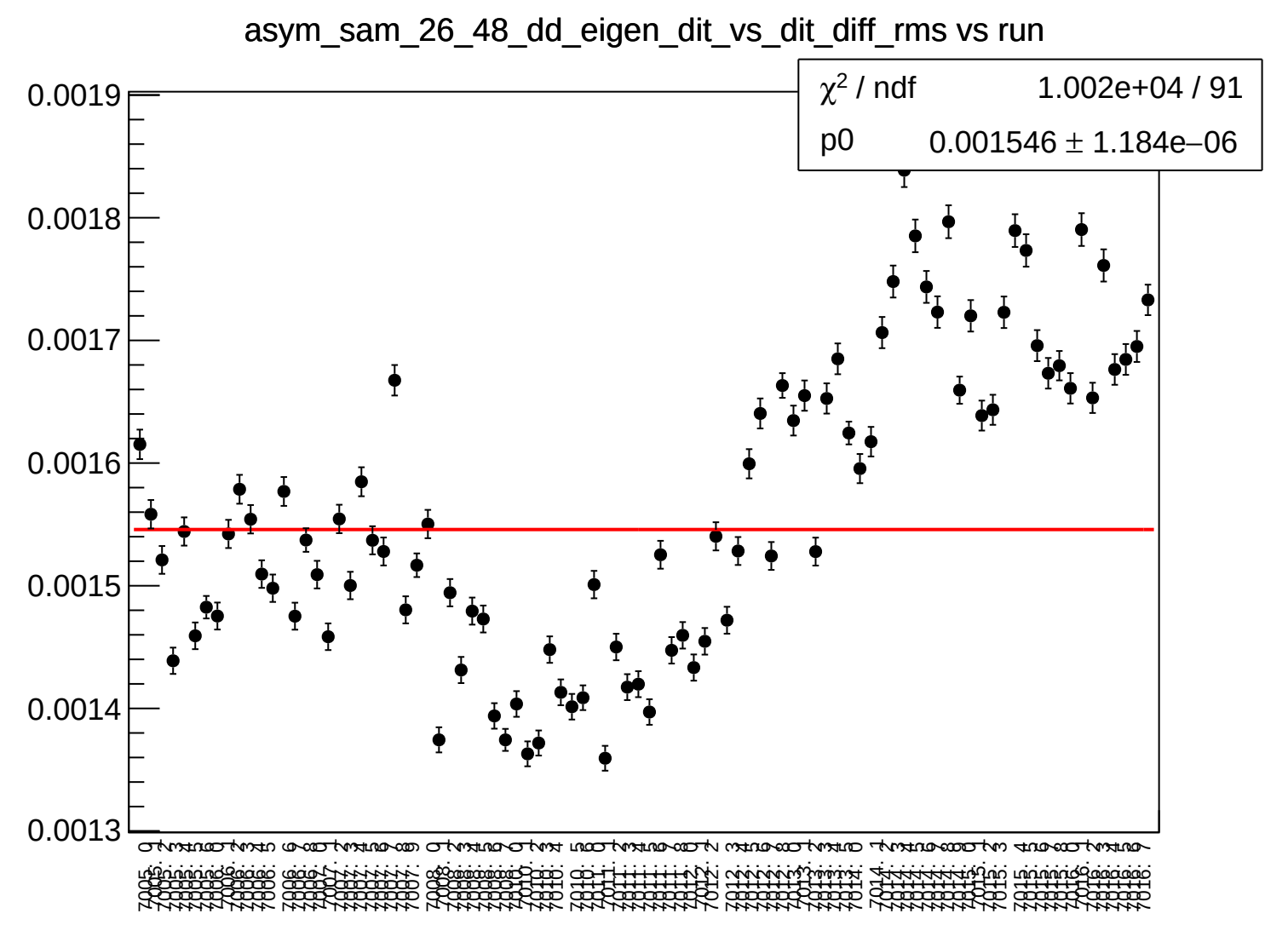

pull1D
Entries 92
Mean −0.01177
Std Dev 0.9107

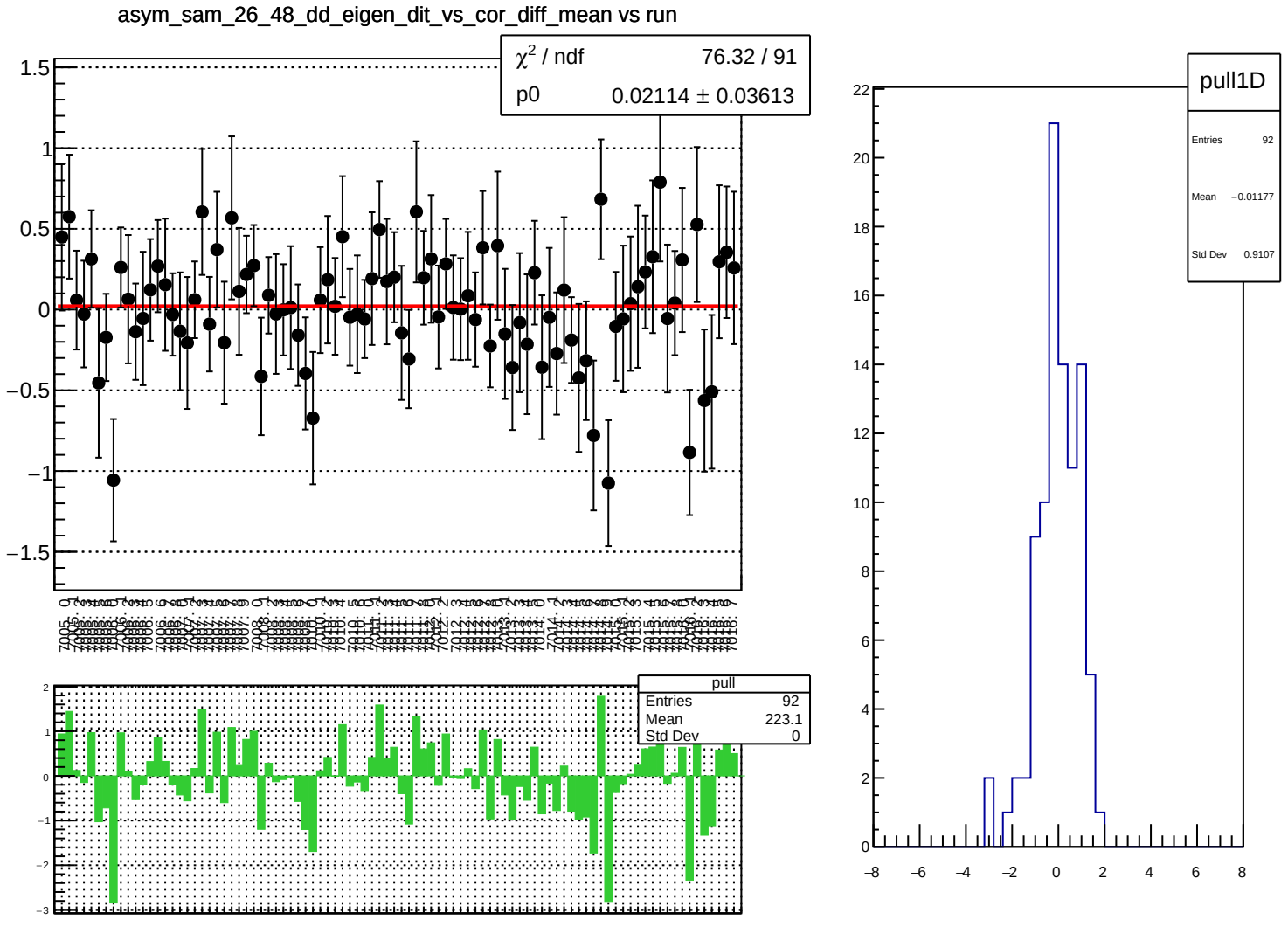

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 91
p0 32.82 ± 0.02555
50
45
40
35
30
25
20

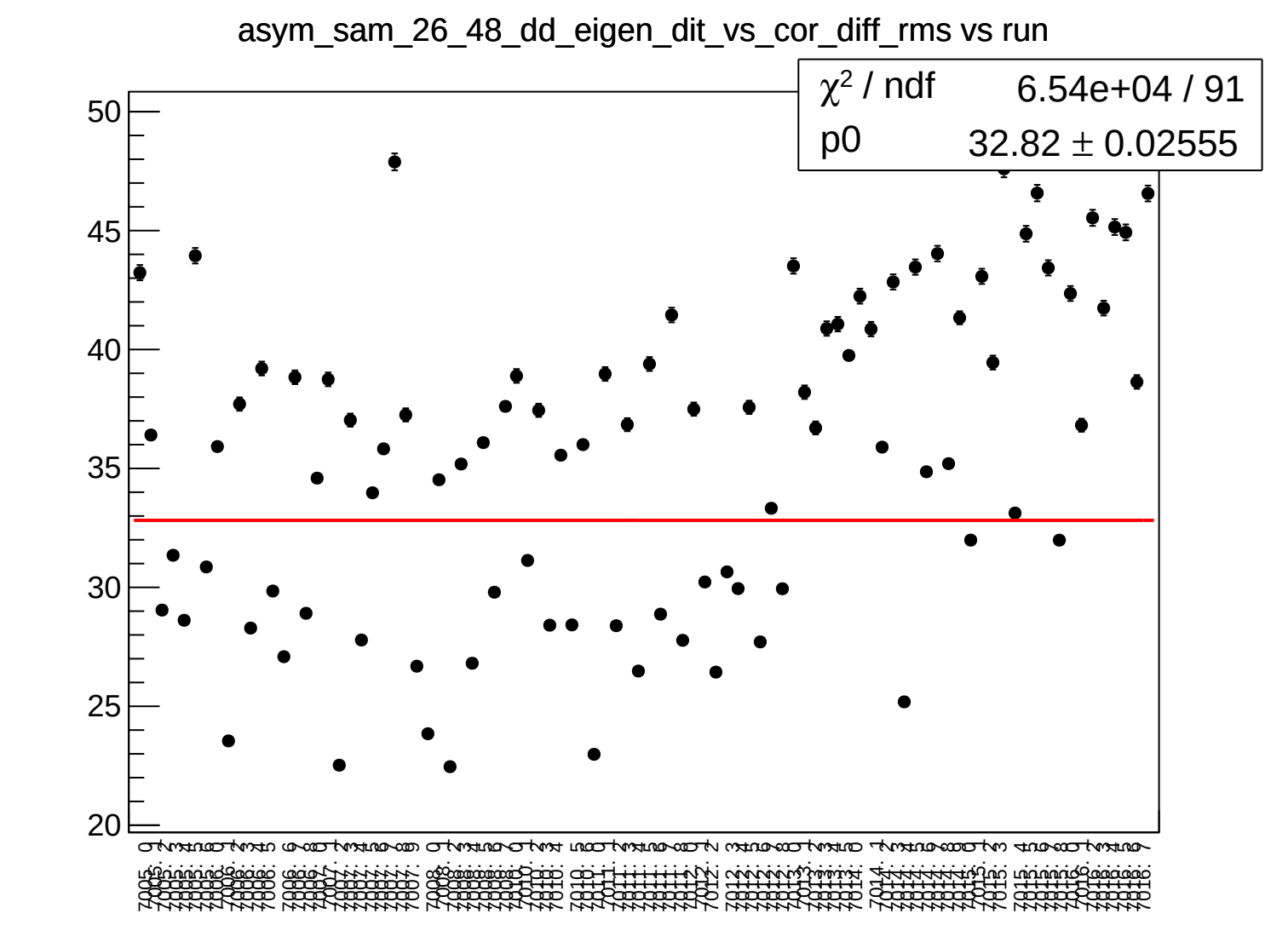

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.32 / 91
p0 0.02113 ± 0.03613
pull
Entries 92
Mean 223.1
Std Dev 0
pull1D
Entries 92
Mean −0.01177
Std Dev 0.9107

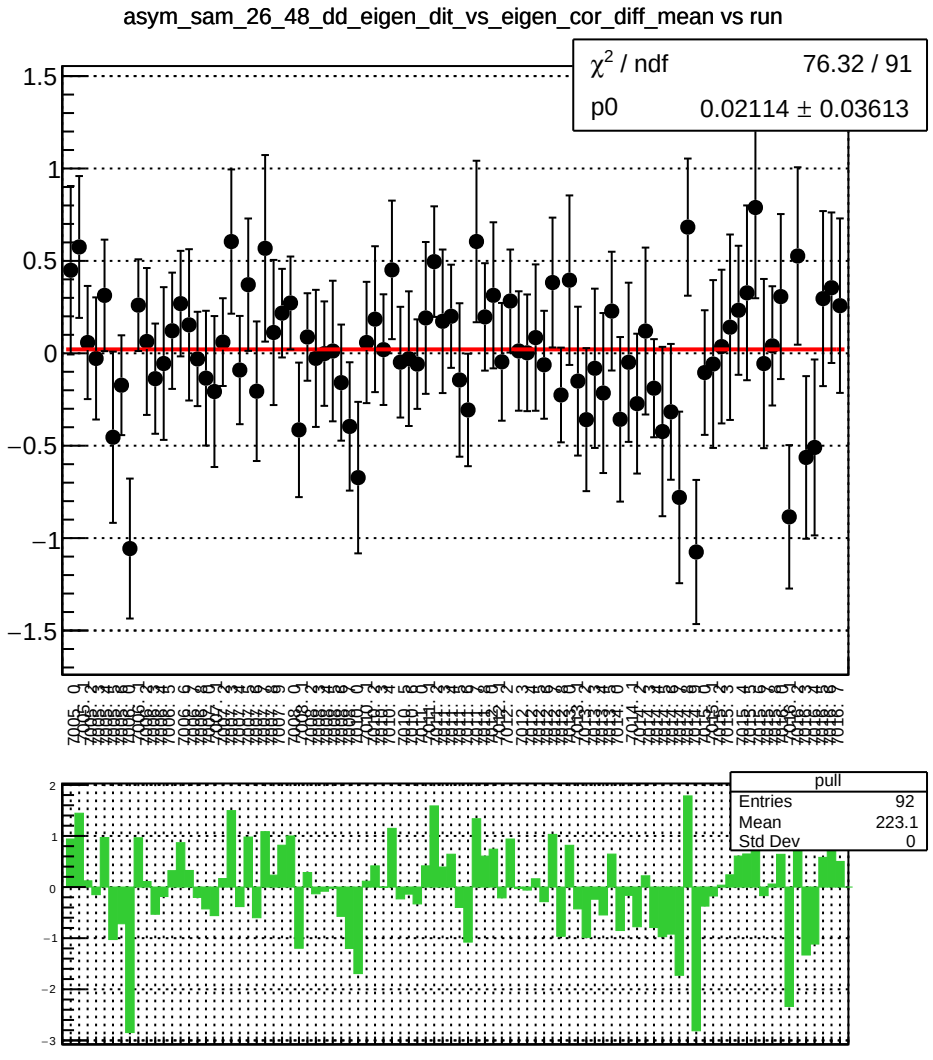

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 91
p0 32.82 ± 0.02555
50
45
40
35
30
25
20

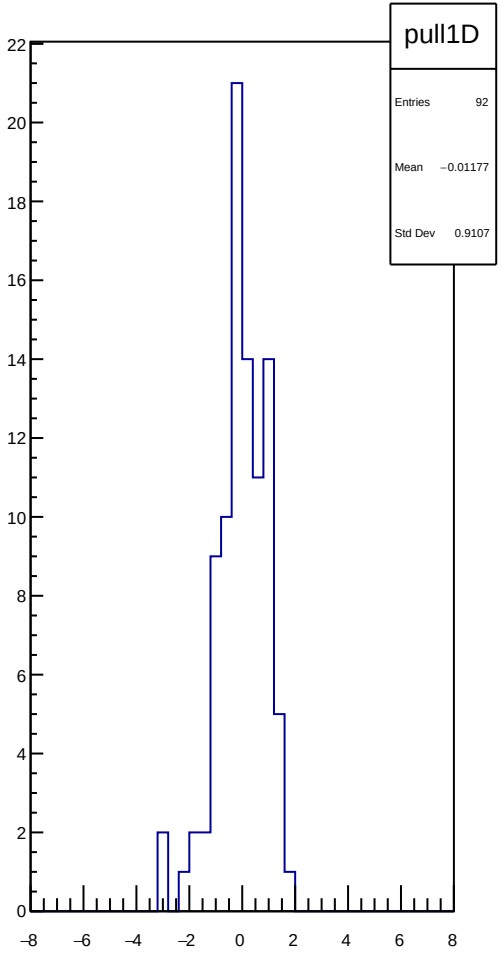

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.06 / 91
p0 8.098e−07 ± 1.674e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 92
Mean 6.657
Std Dev 66.88
pull1D
Entries 92
Mean 0.01635
Std Dev 0.95
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

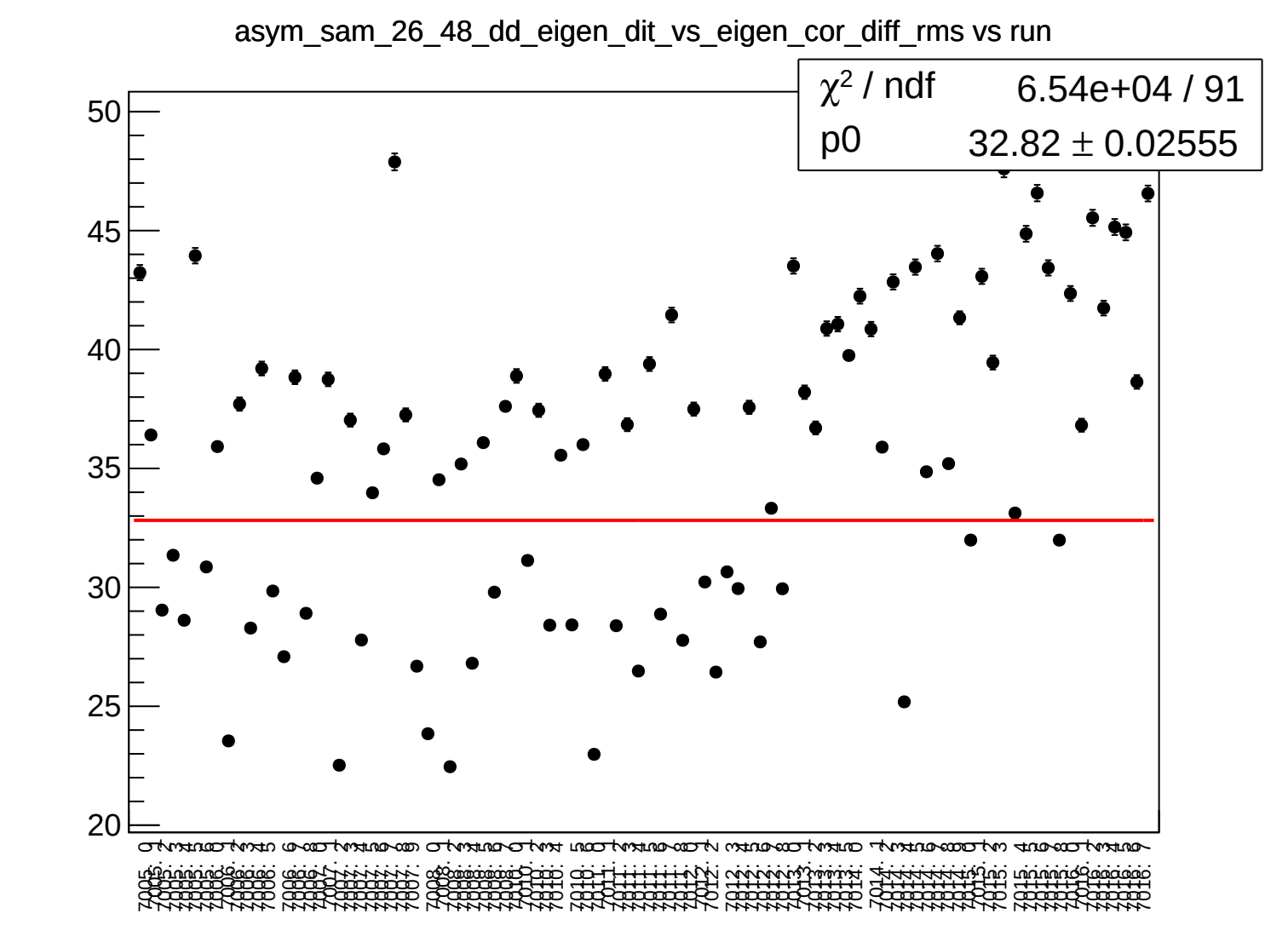

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.002e+04 / 91
p0 0.001546 ± 1.184e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

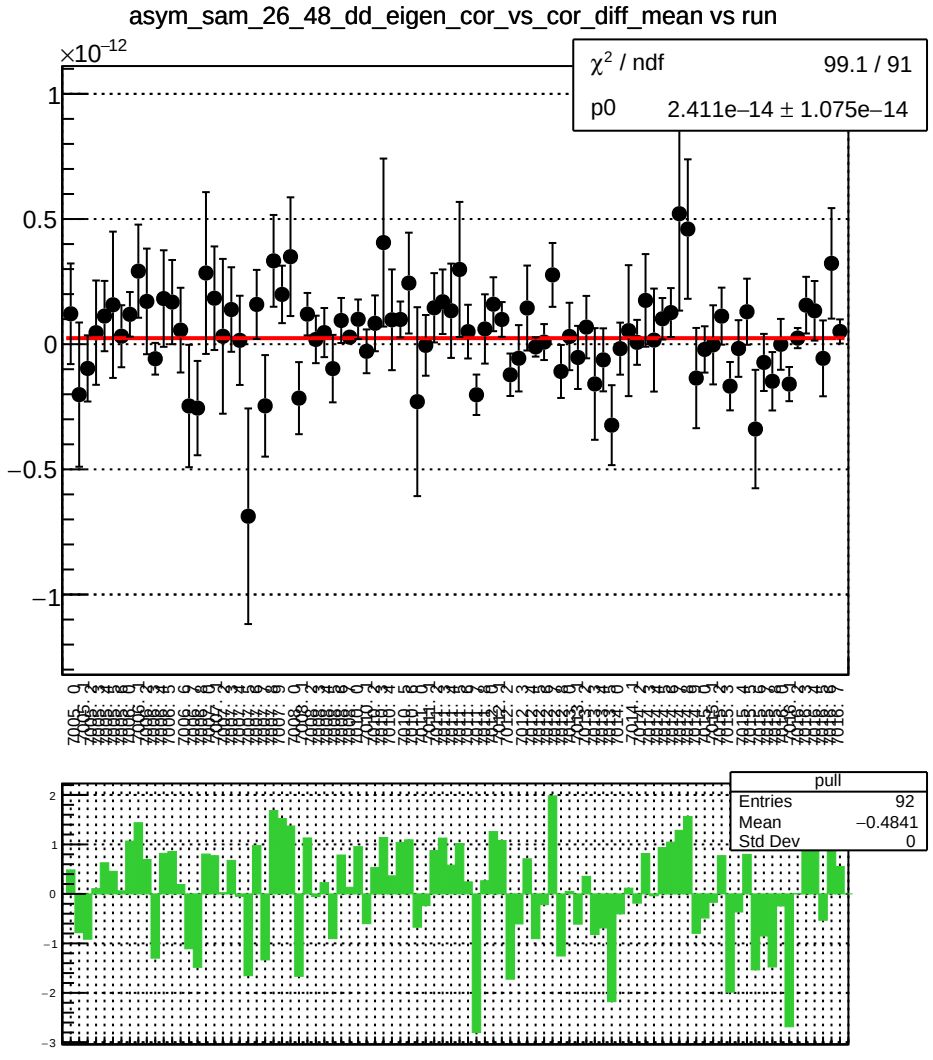

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.32 / 91
p0 0.02114 ± 0.03613
pull
Entries 92
Mean 223.1
Std Dev 0
pull1D
Entries 92
Mean −0.01177
Std Dev 0.9107

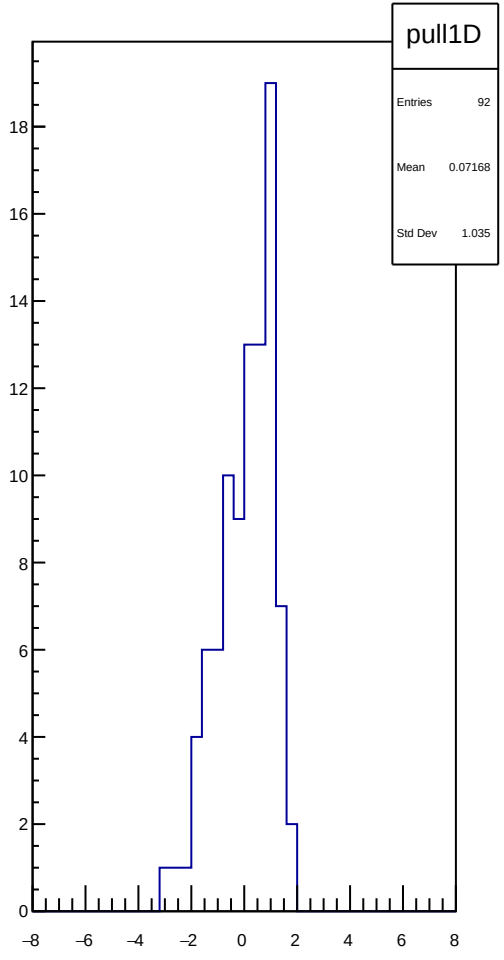

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 91
p0 32.82 ± 0.02555
50
45
40
35
30
25
20

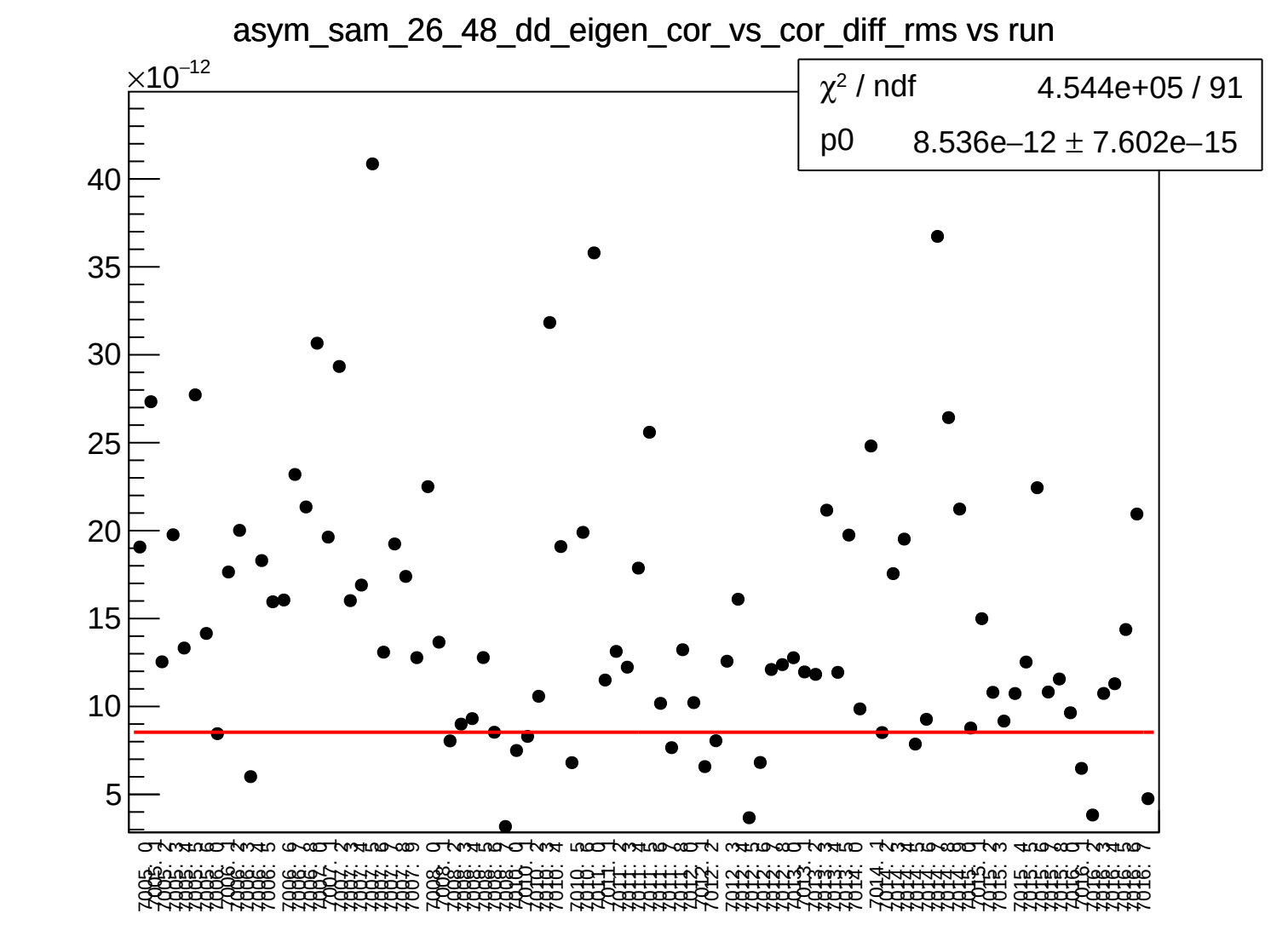

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.32 / 91
p0 0.02114 ± 0.03613
pull
Entries 92
Mean 223.1
Std Dev 0

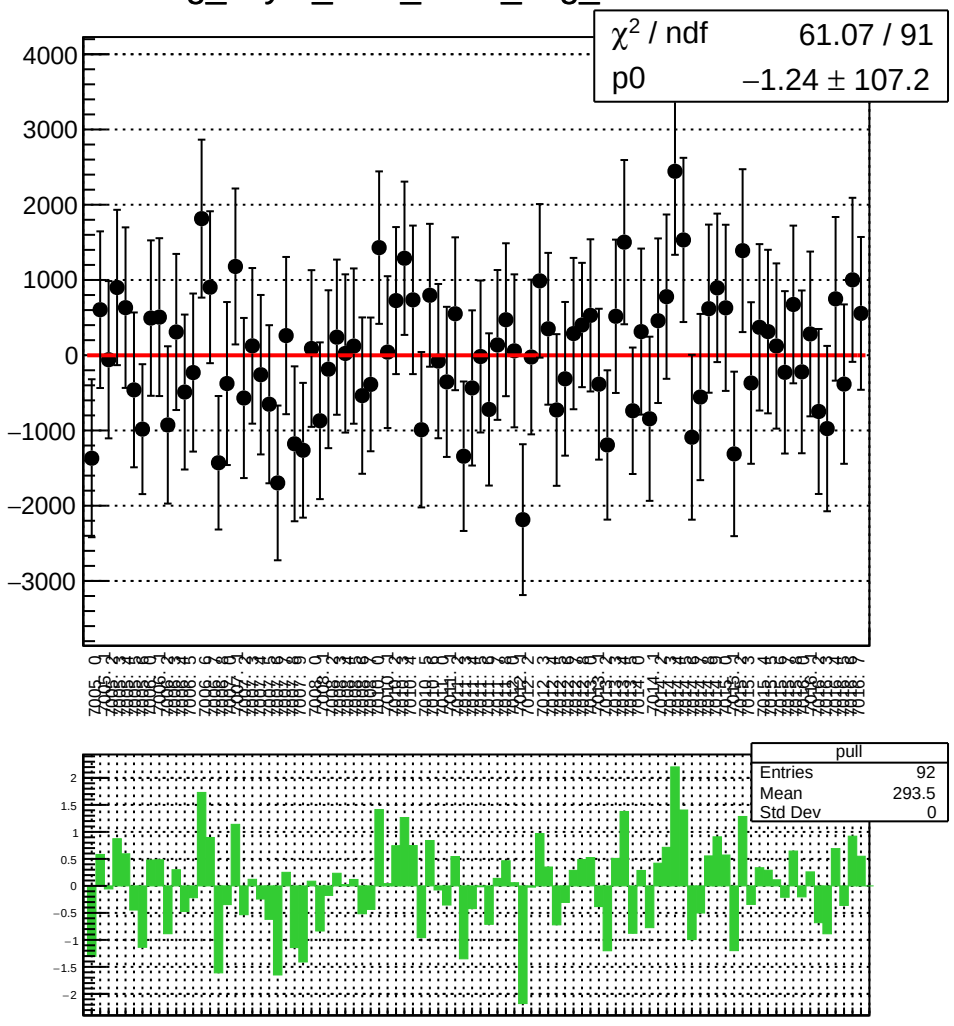

pull1D
Entries 92
Mean −0.01177
Std Dev 0.9107

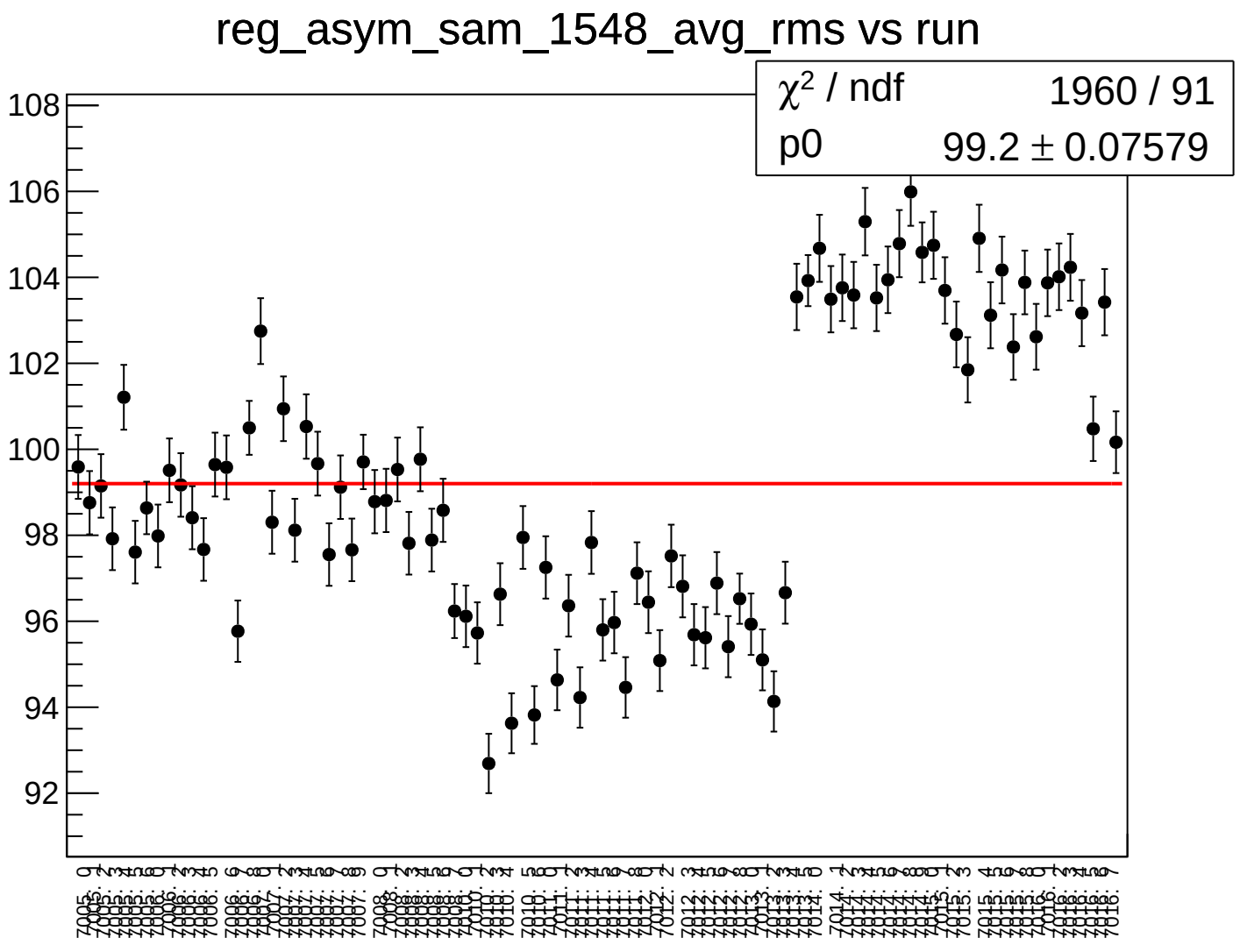

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.54e+04 / 91
p0 32.82 ± 0.02555
50
45
40
35
30
25
20

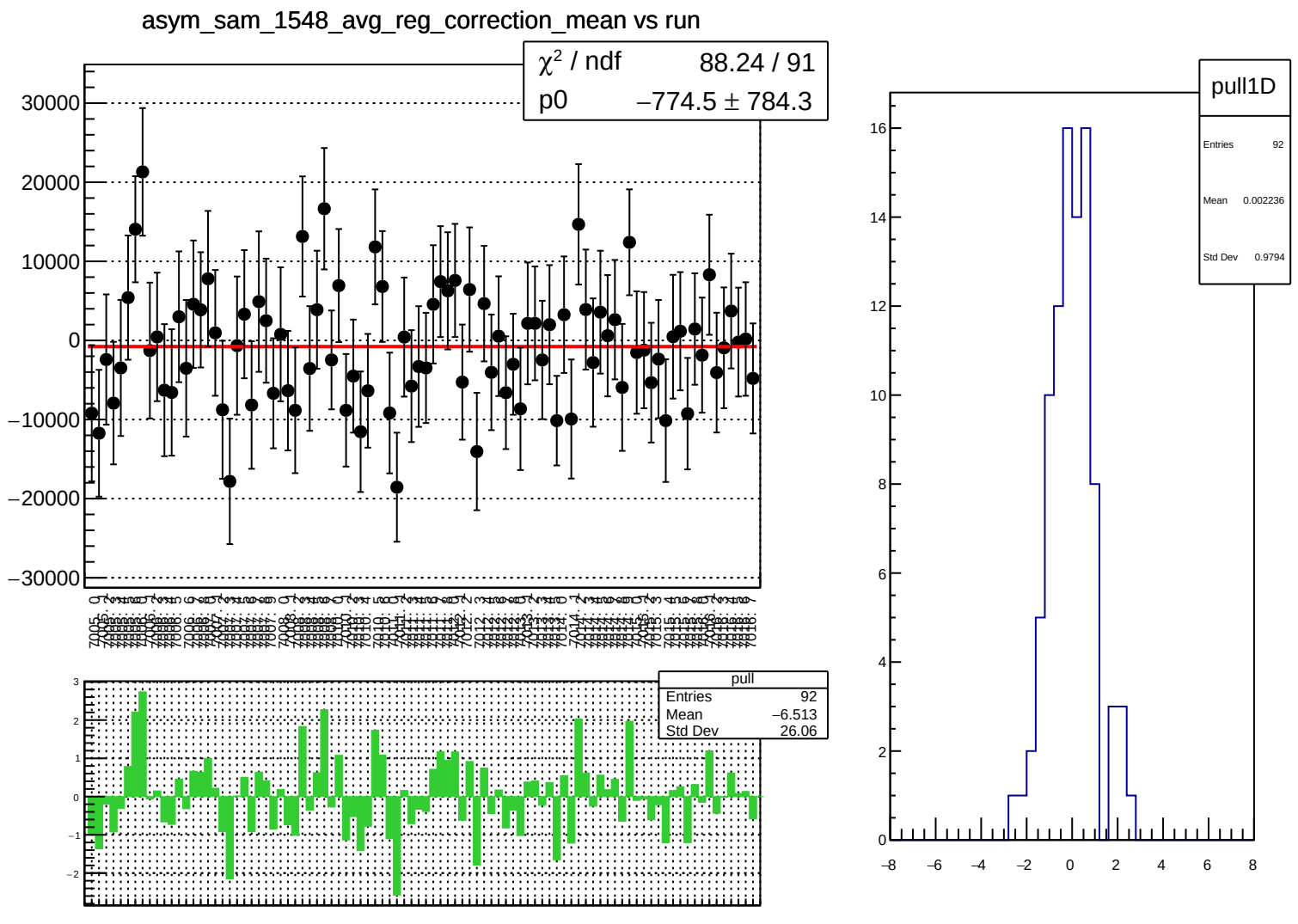

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 99.1 / 91
p0 2.411e−14 ± 1.075e−14
pull
Entries 92
Mean −0.4841
Std Dev 0

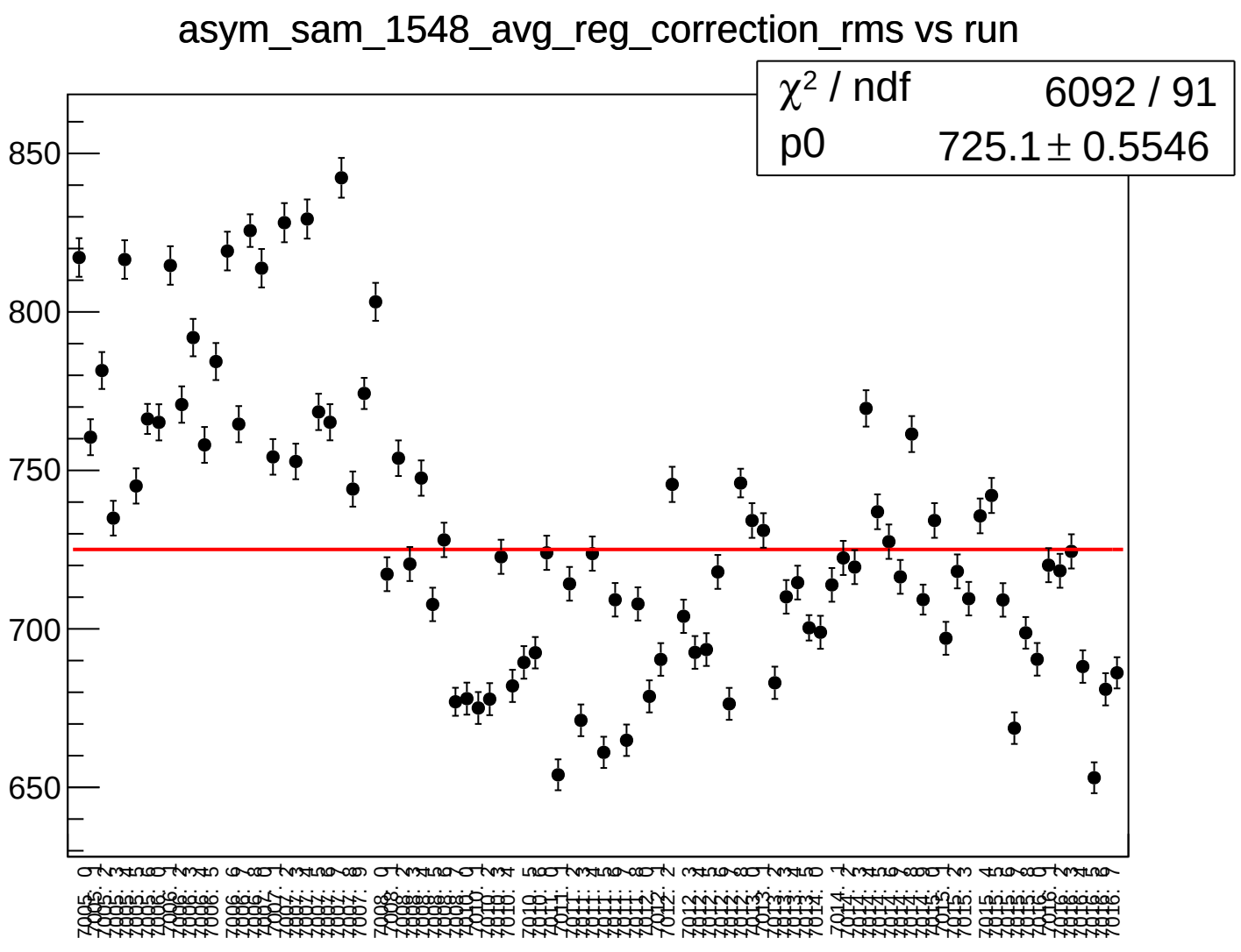

pull1D
Entries 92
Mean 0.07168
Std Dev 1.035

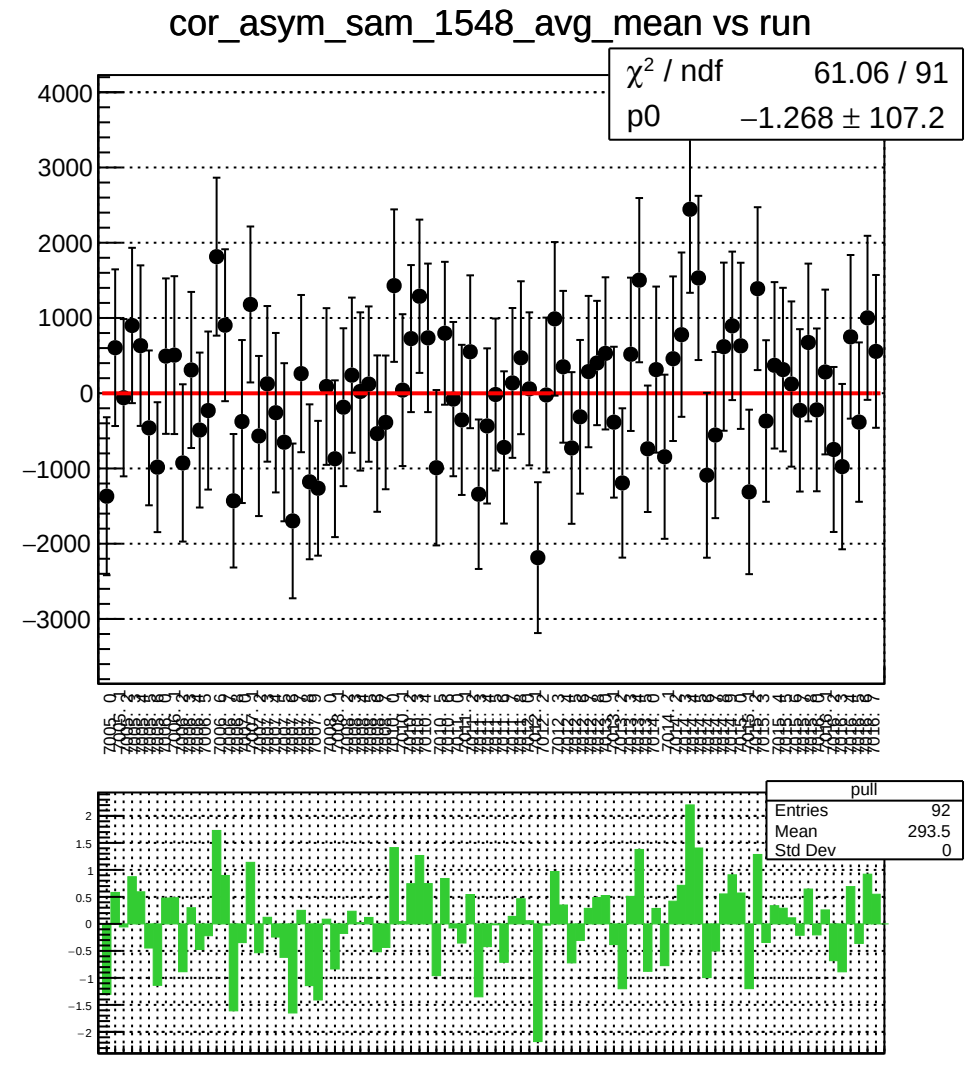

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.544e+05 / 91
p0 8.536e−12 ± 7.602e−15
40
35
30
25
20
15
10
5

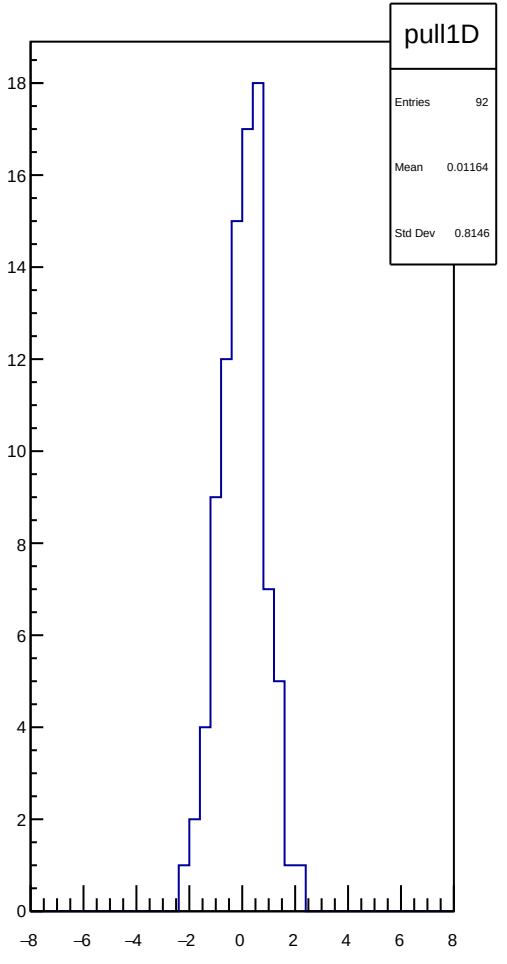

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 61.07 / 91
p0 −1.24 ± 107.2
pull
Entries 92
Mean 293.5
Std Dev 0
pull1D
Entries 92
Mean 0.01164
Std Dev 0.8146

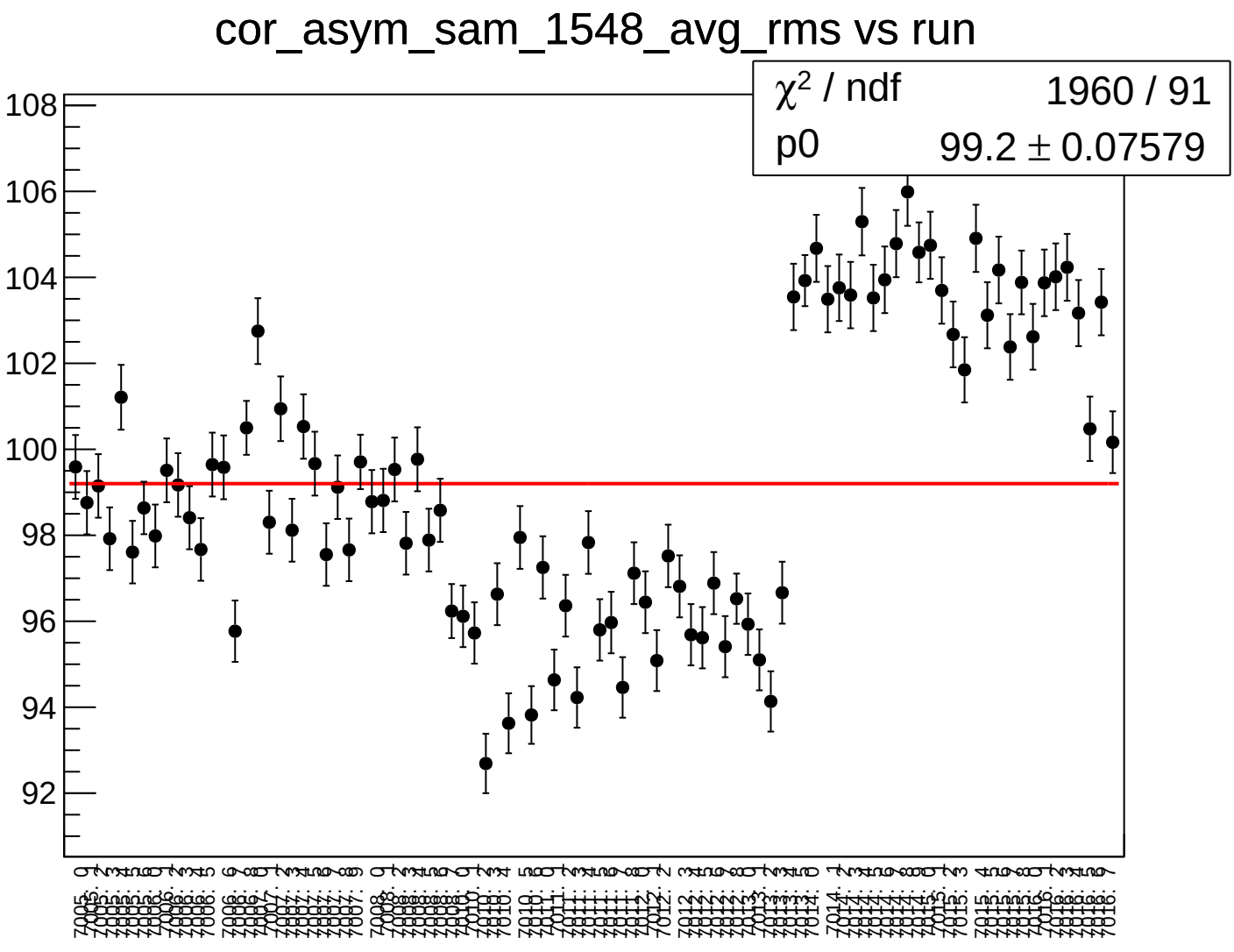

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1960 / 91
p0 99.2 ± 0.07579
108
106
104
102
100
98
96
94
92

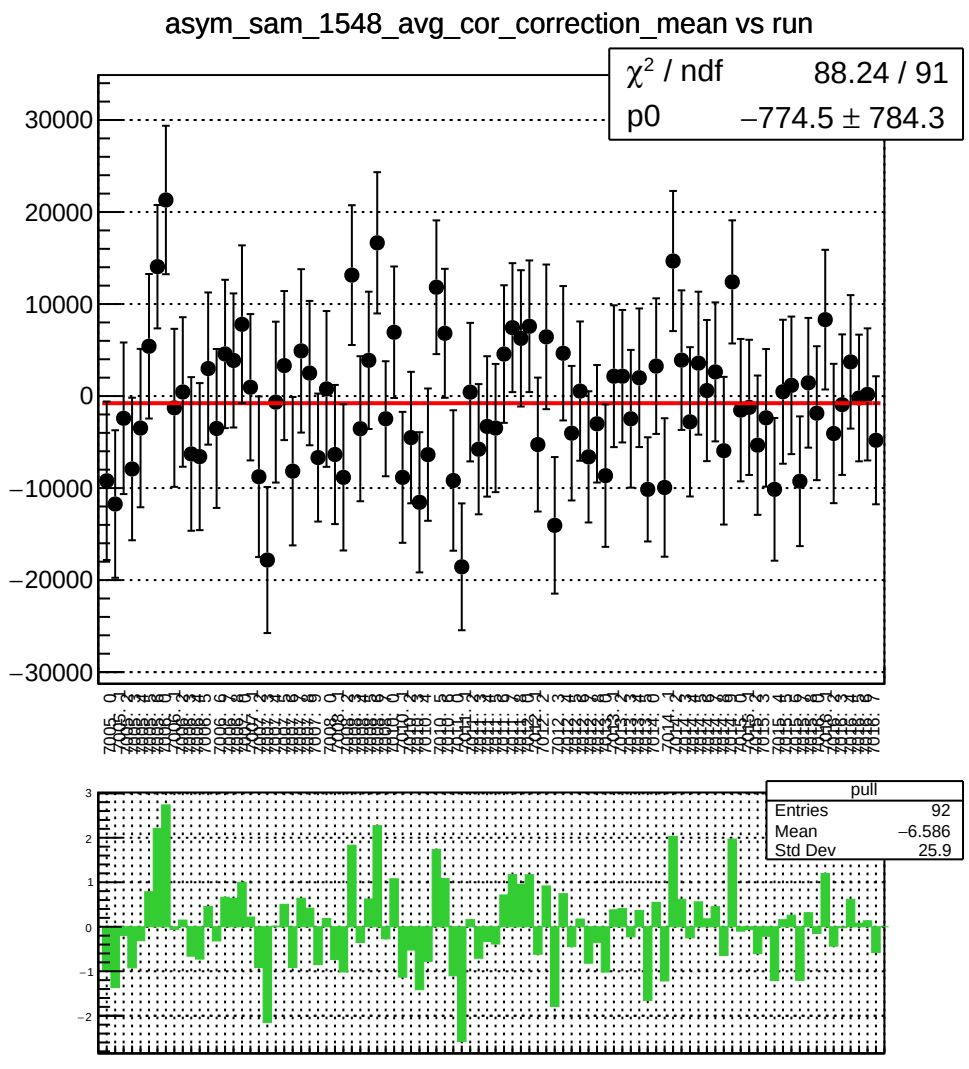

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 88.24 / 91
p0 −774.5 ± 784.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −6.513
Std Dev 26.06
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.002236
Std Dev 0.9794
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

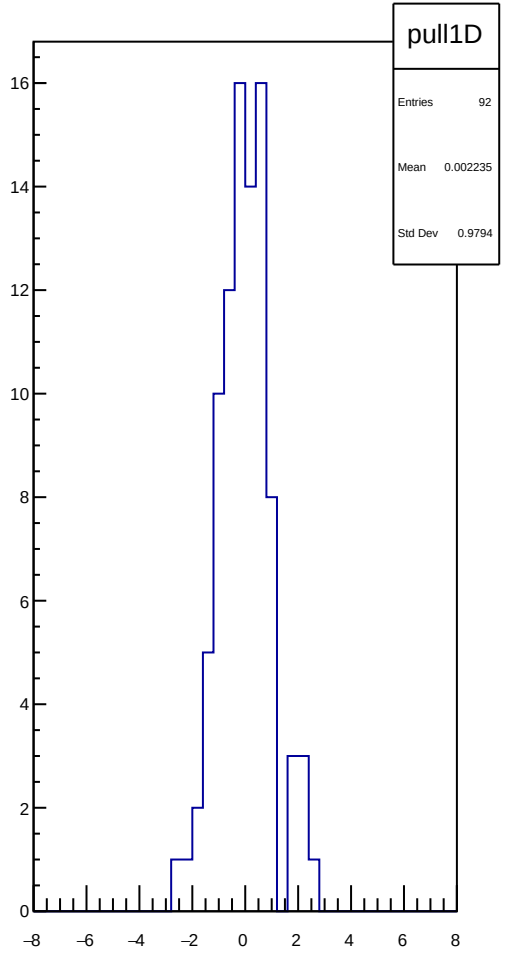

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 6092 / 91
p0 725.1 ± 0.5546
850
800
750
700
650

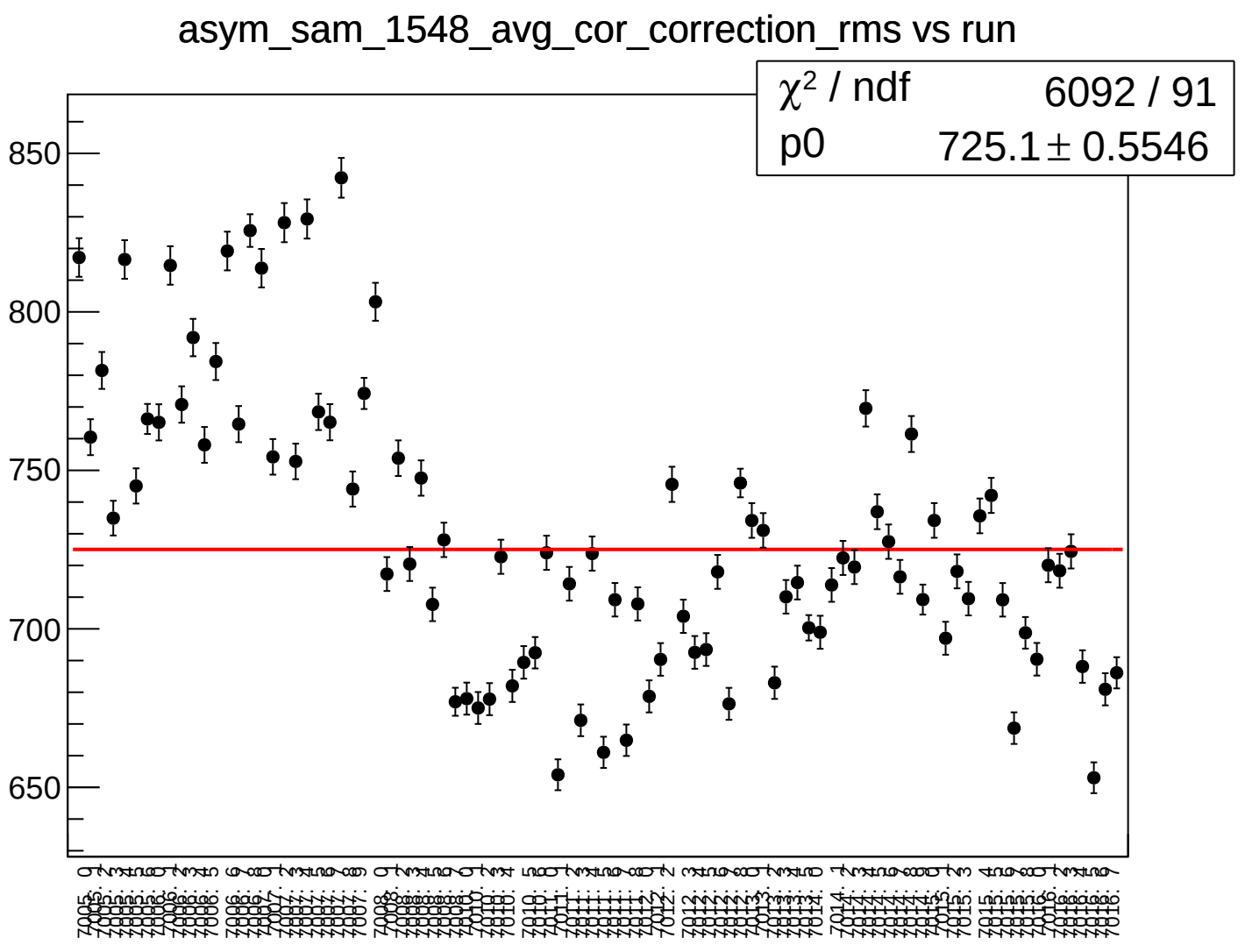

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 61.06 / 91
p0 −1.268 ± 107.2
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 293.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

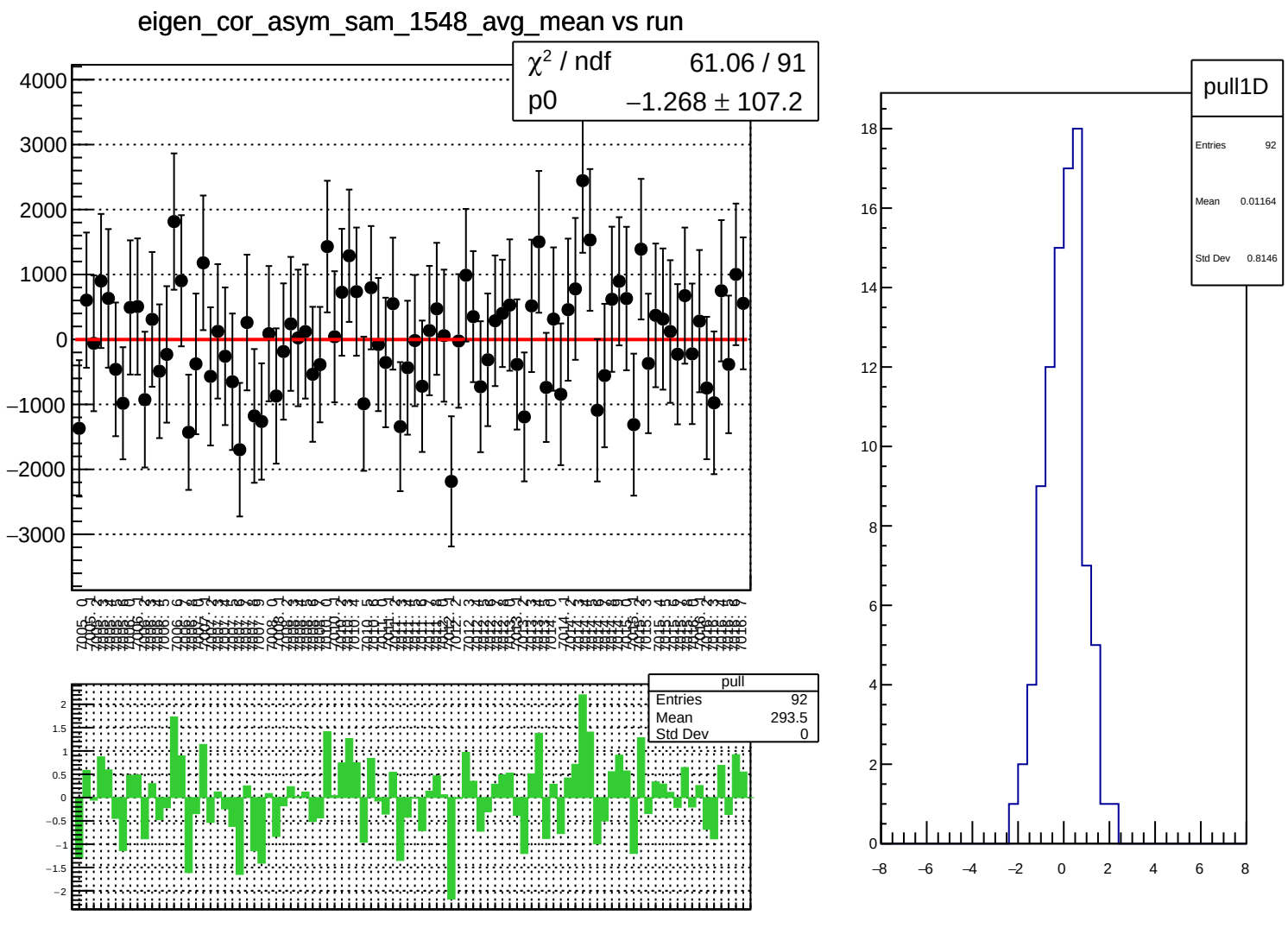

pull1D
Entries 92
Mean 0.01164
Std Dev 0.8146
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

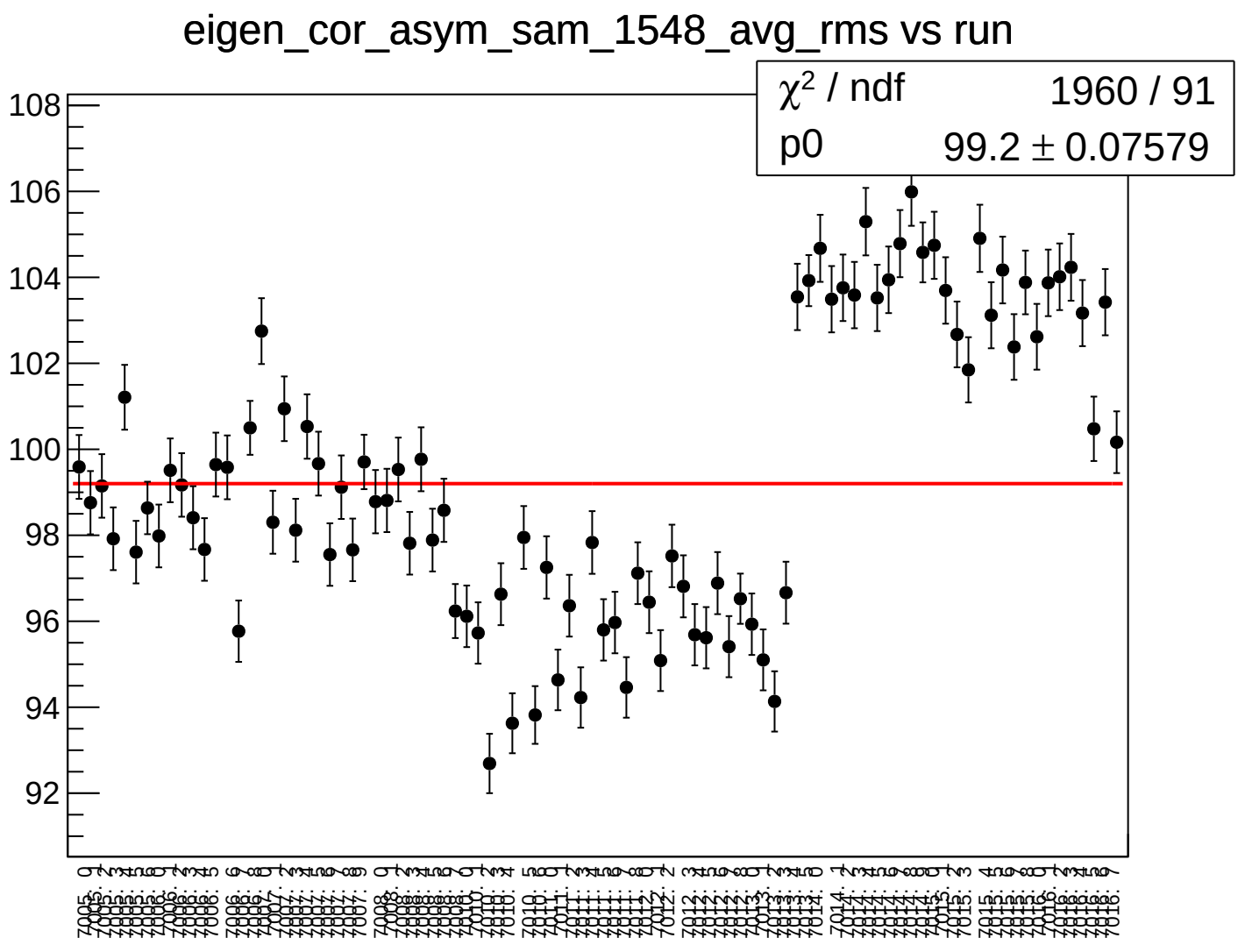

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1960 / 91
p0 99.2 ± 0.07579
108
106
104
102
100
98
96
94
92

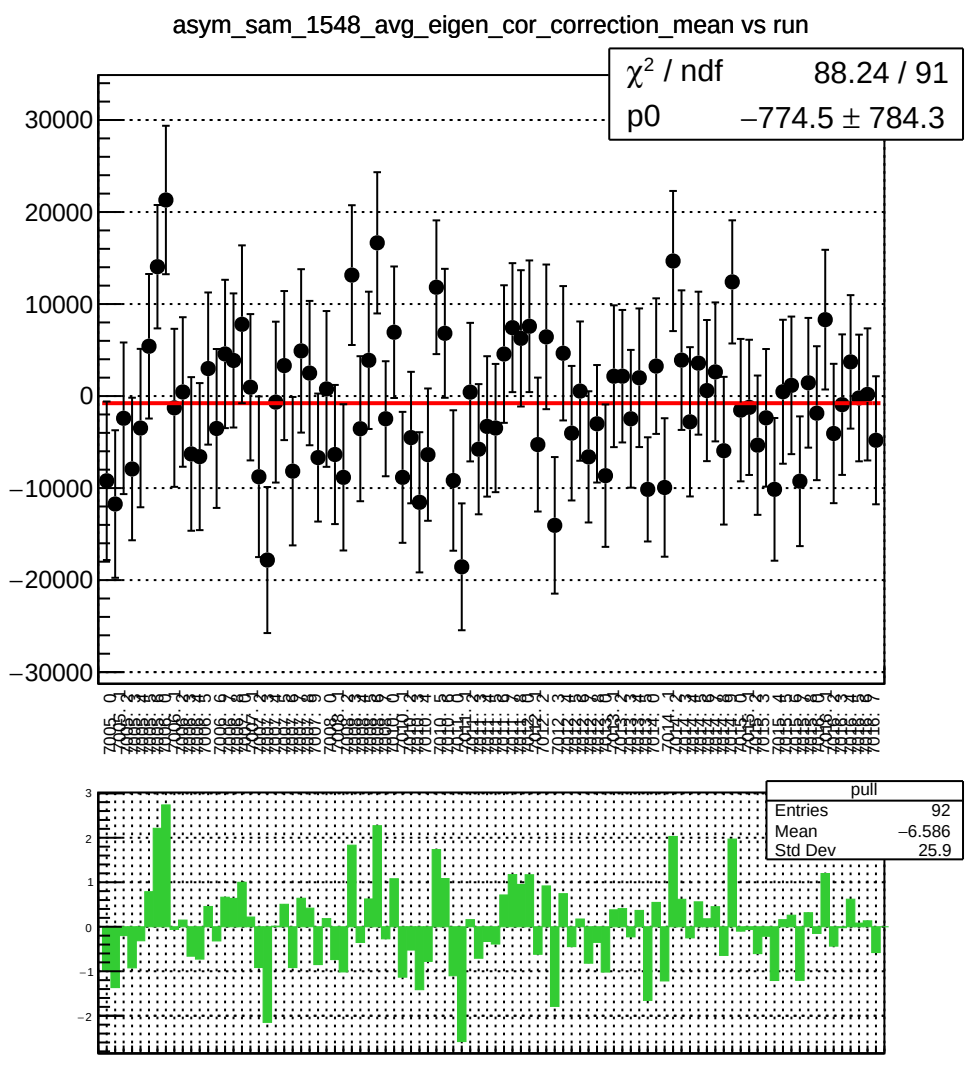

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 88.24 / 91
p0 −774.5 ± 784.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −6.586
Std Dev 25.9
3
2
1
0
−1
−2

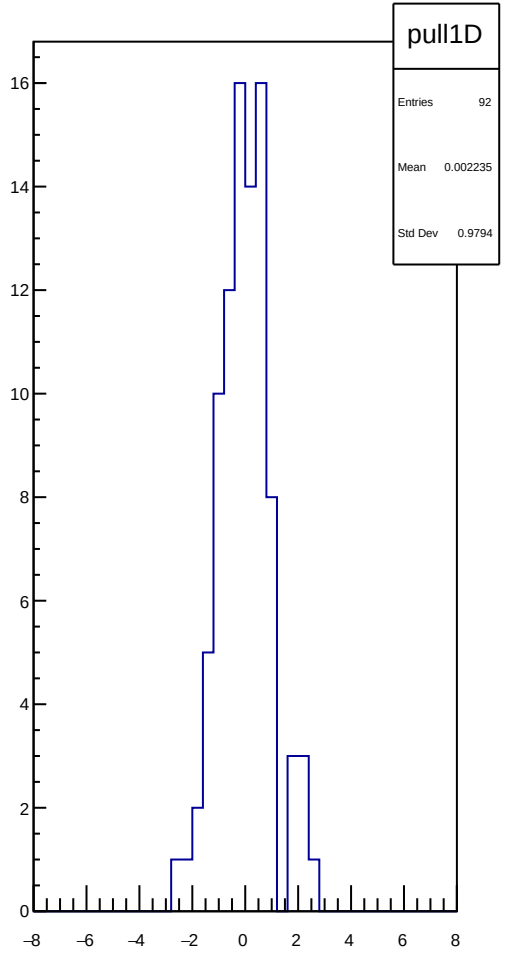

pull1D
Entries 92
Mean 0.002235
Std Dev 0.9794
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

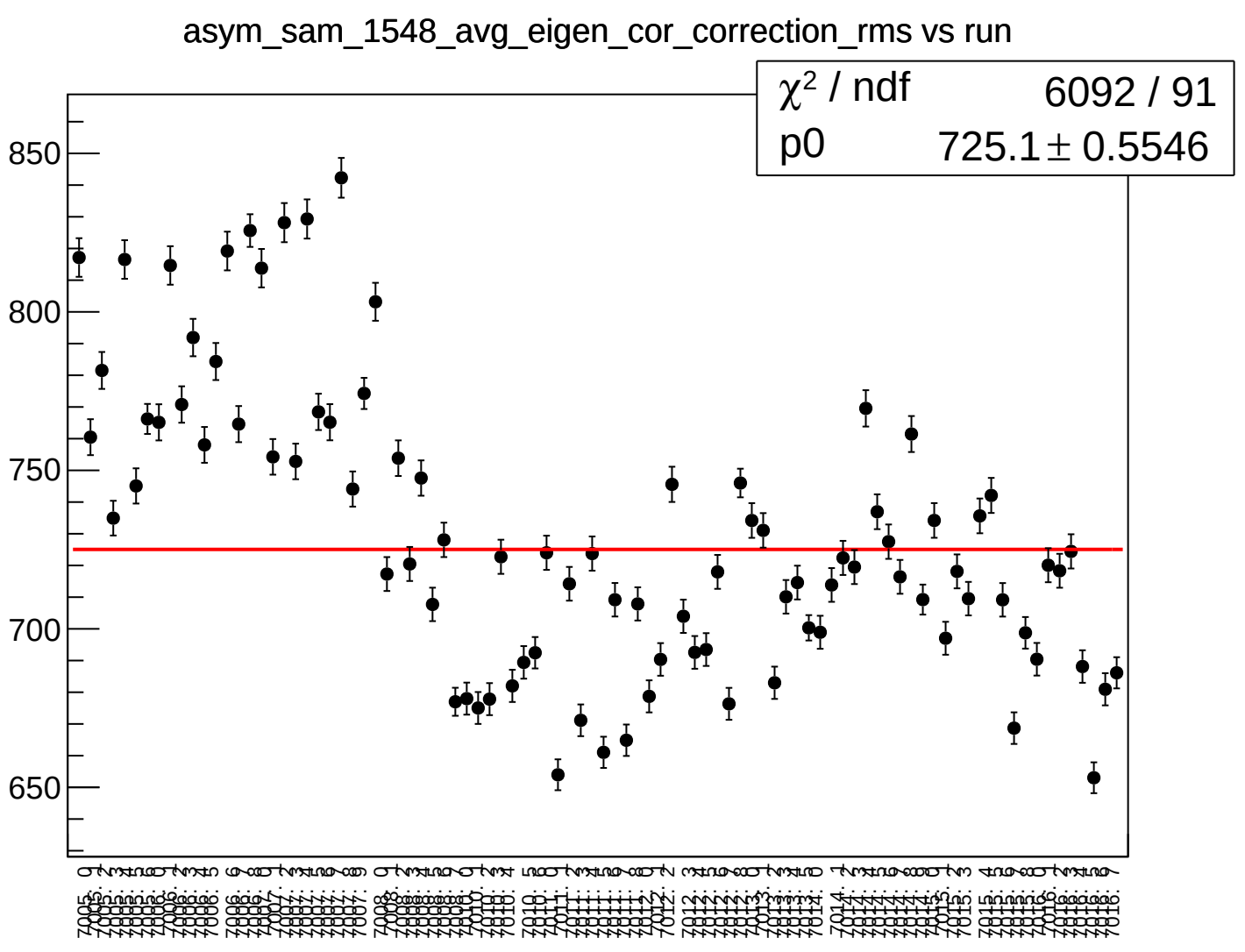

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 6092 / 91
p0 725.1 ± 0.5546
850
800
750
700
650

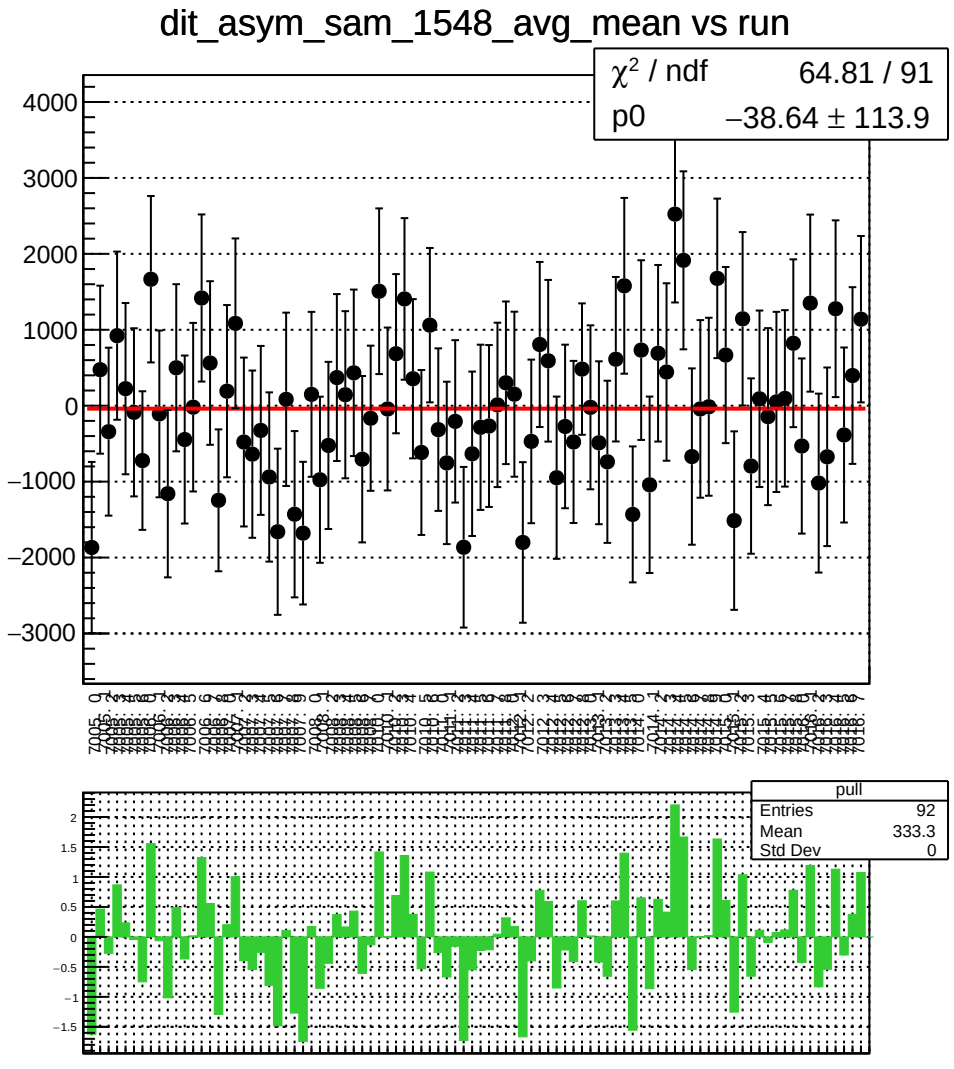

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 61.06 / 91
p0 −1.268 ± 107.2
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 293.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.01164
Std Dev 0.8146
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

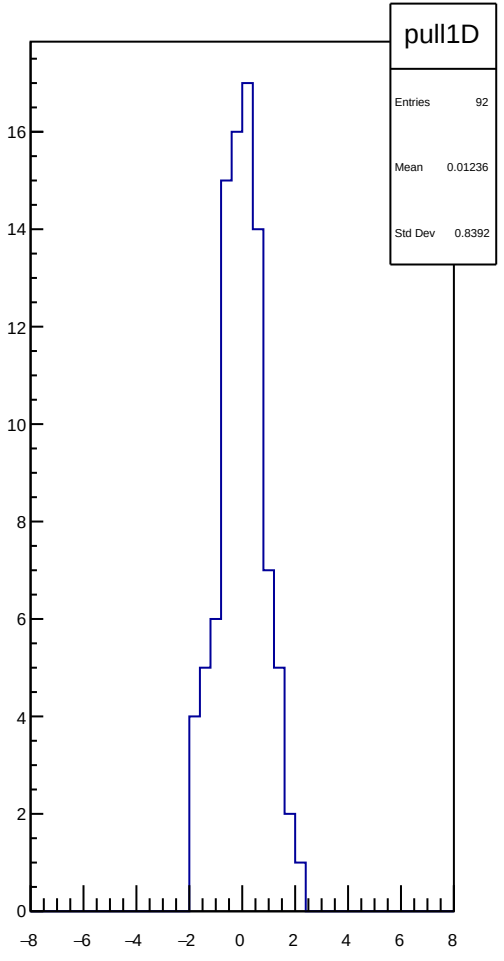

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1960 / 91
p0 99.2 ± 0.07579
108
106
104
102
100
98
96
94
92

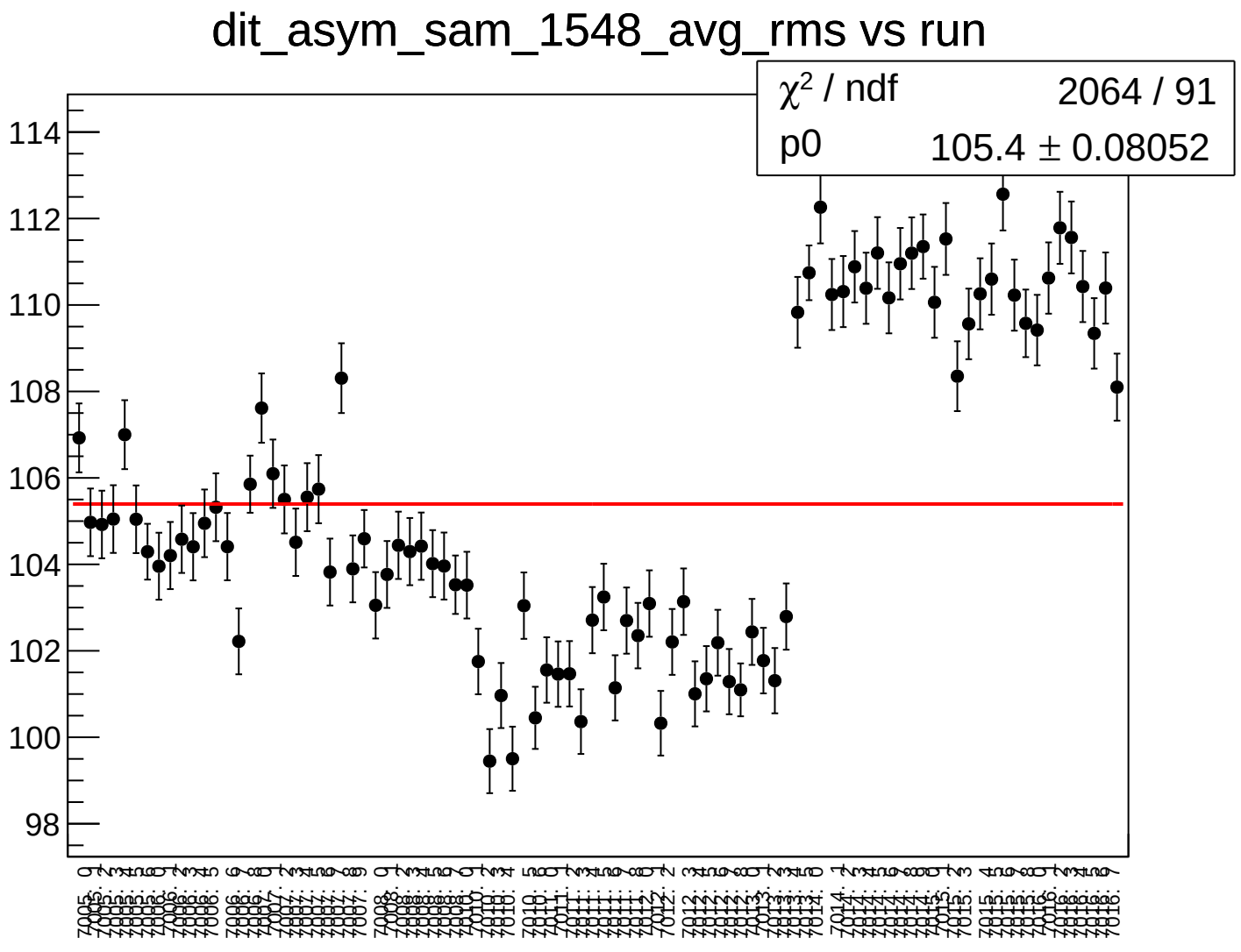

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.24 / 91
p0 −774.5 ± 784.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −6.586
Std Dev 25.9
3
2
1
0
−1
−2

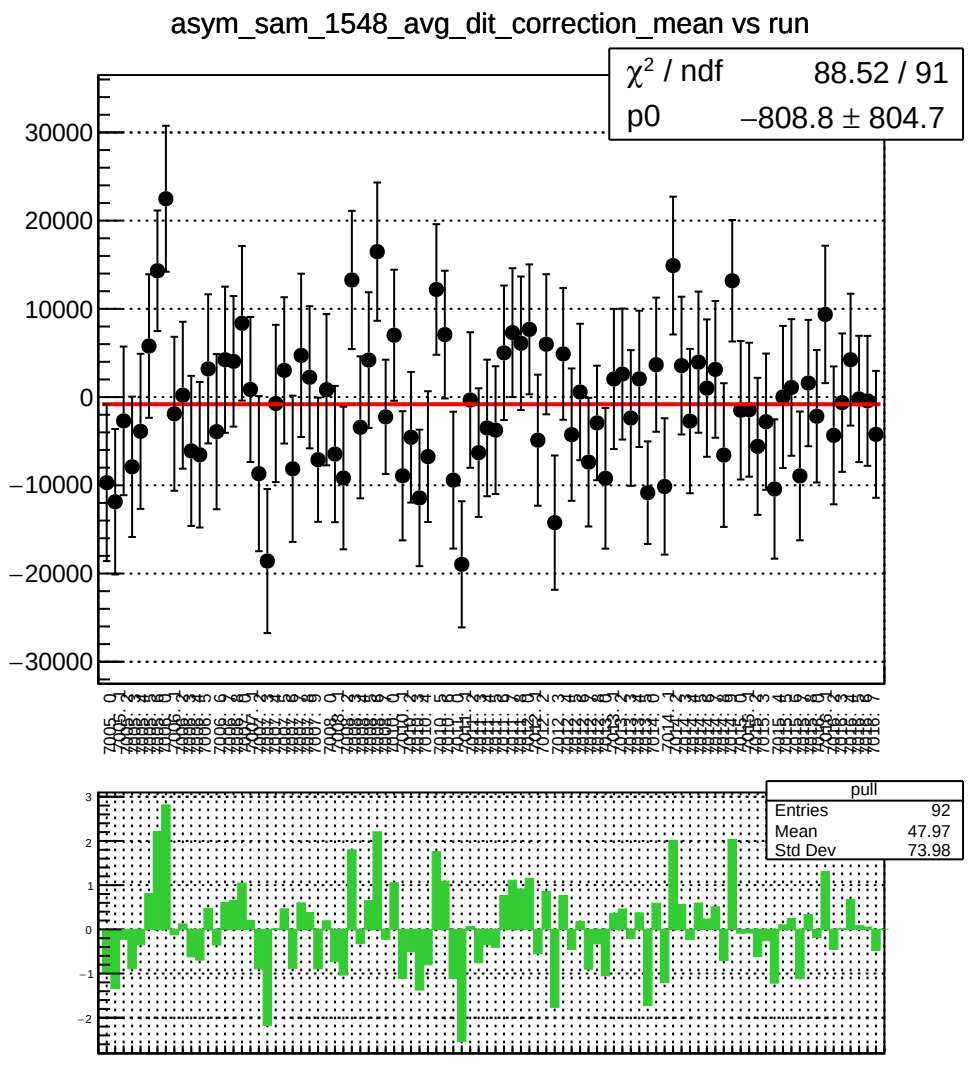

pull1D
Entries 92
Mean 0.002235
Std Dev 0.9794
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

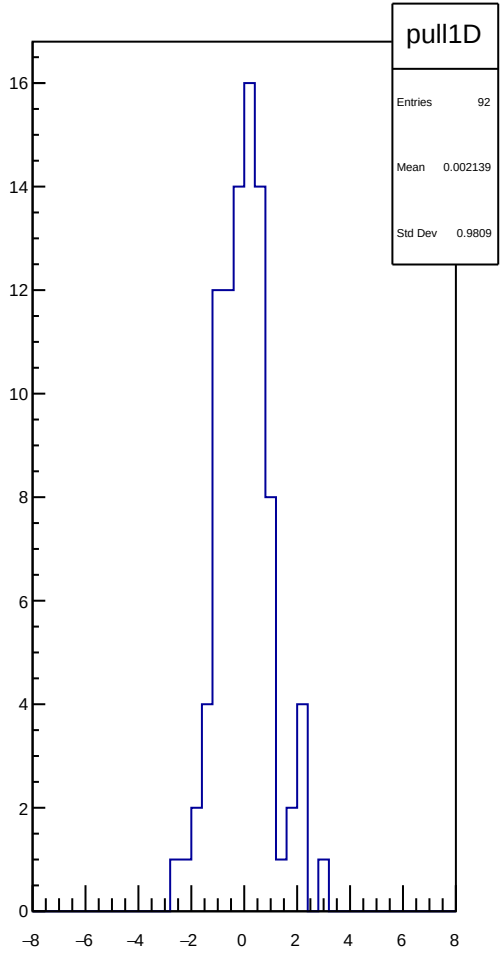

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 6092 / 91
p0 725.1 ± 0.5546
850
800
750
700
650

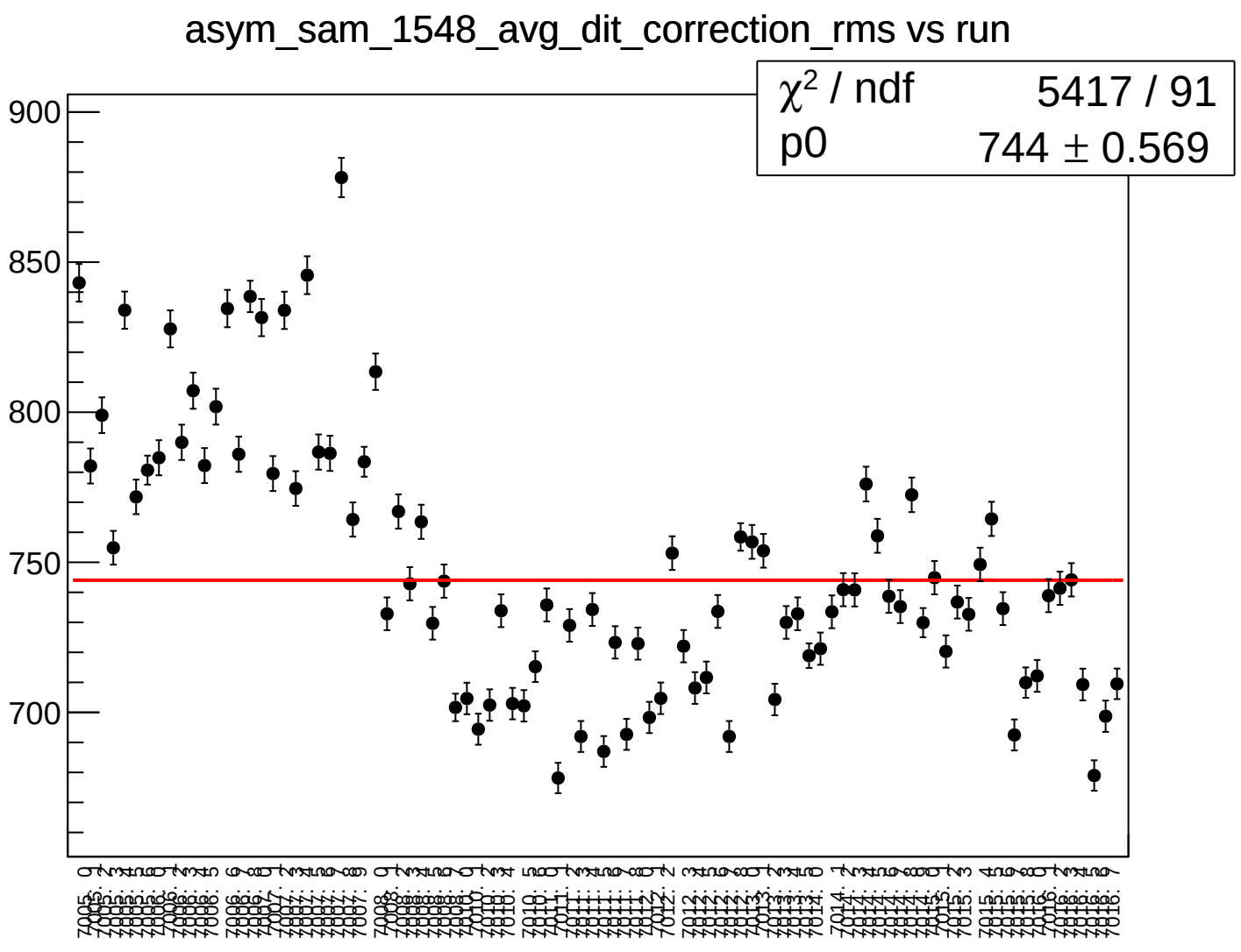

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 64.81 / 91
p0 −38.64 ± 113.9
pull
Entries 92
Mean 333.3
Std Dev 0

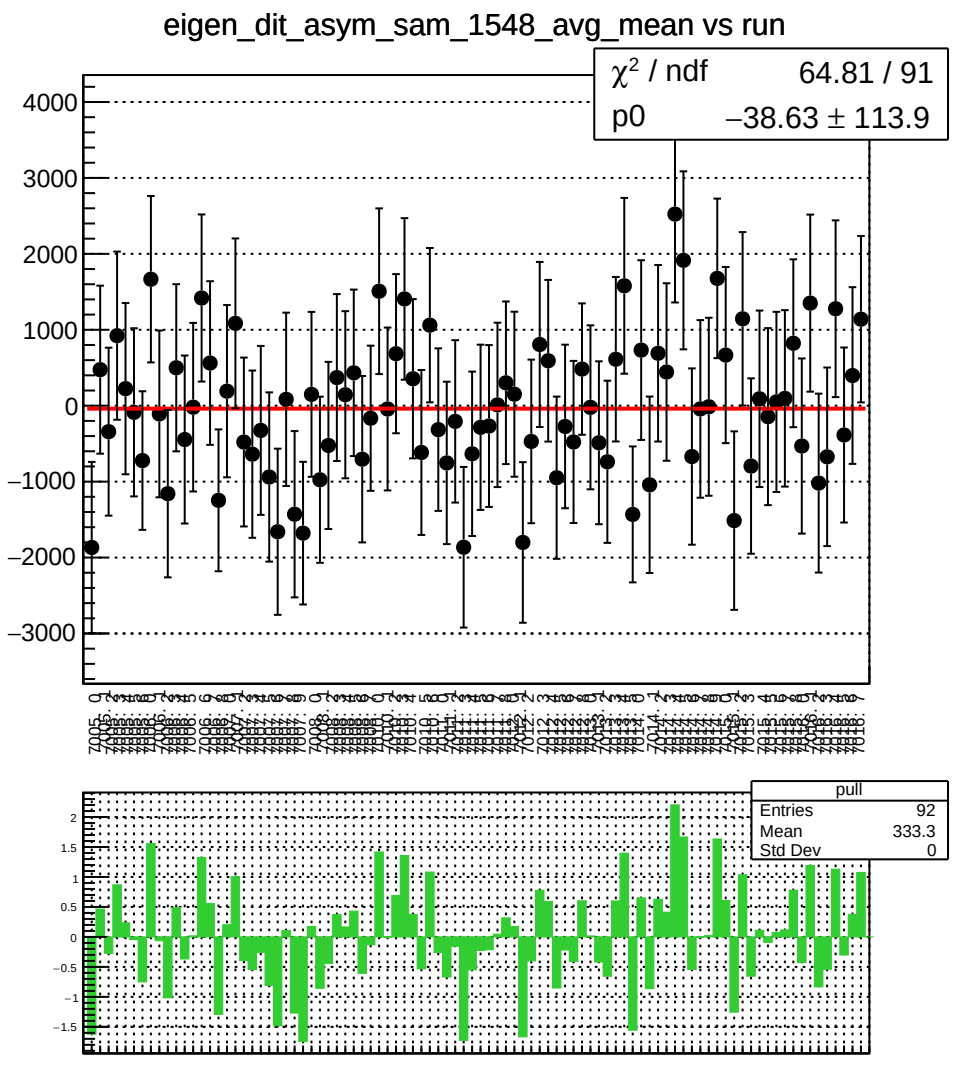

pull1D
Entries 92
Mean 0.01236
Std Dev 0.8392

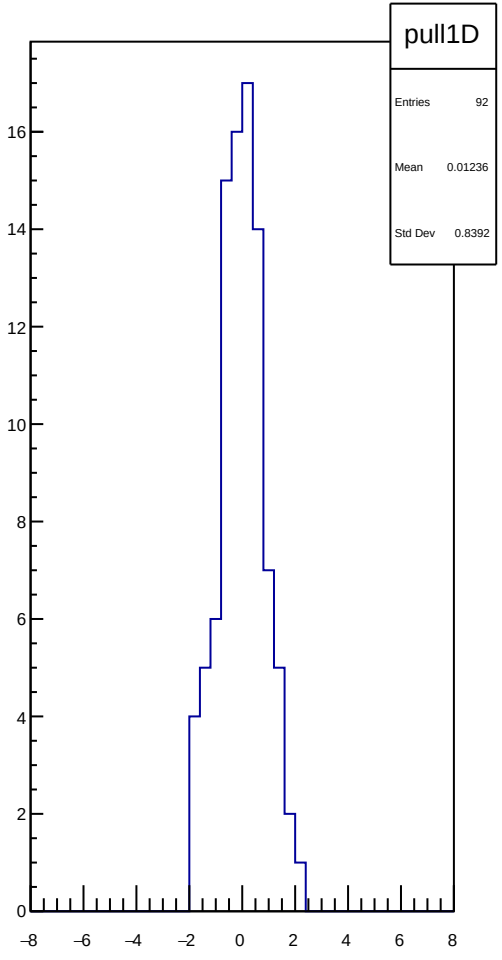

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2064 / 91
p0 105.4 ± 0.08052
114
112
110
108
106
104
102
100
98

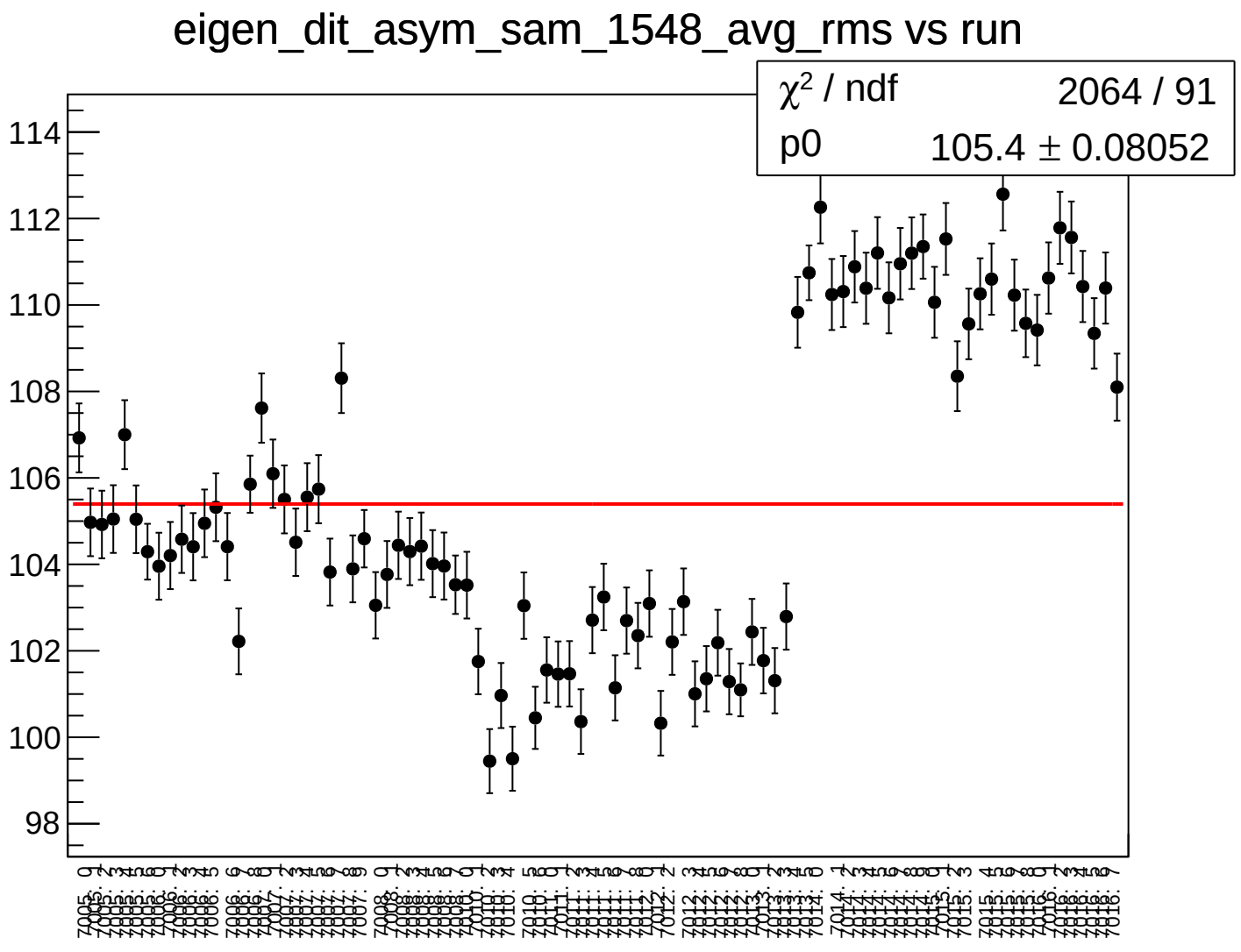

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 88.52 / 91
p0 −808.8 ± 804.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 47.97
Std Dev 73.98
3
2
1
0
−1
−2

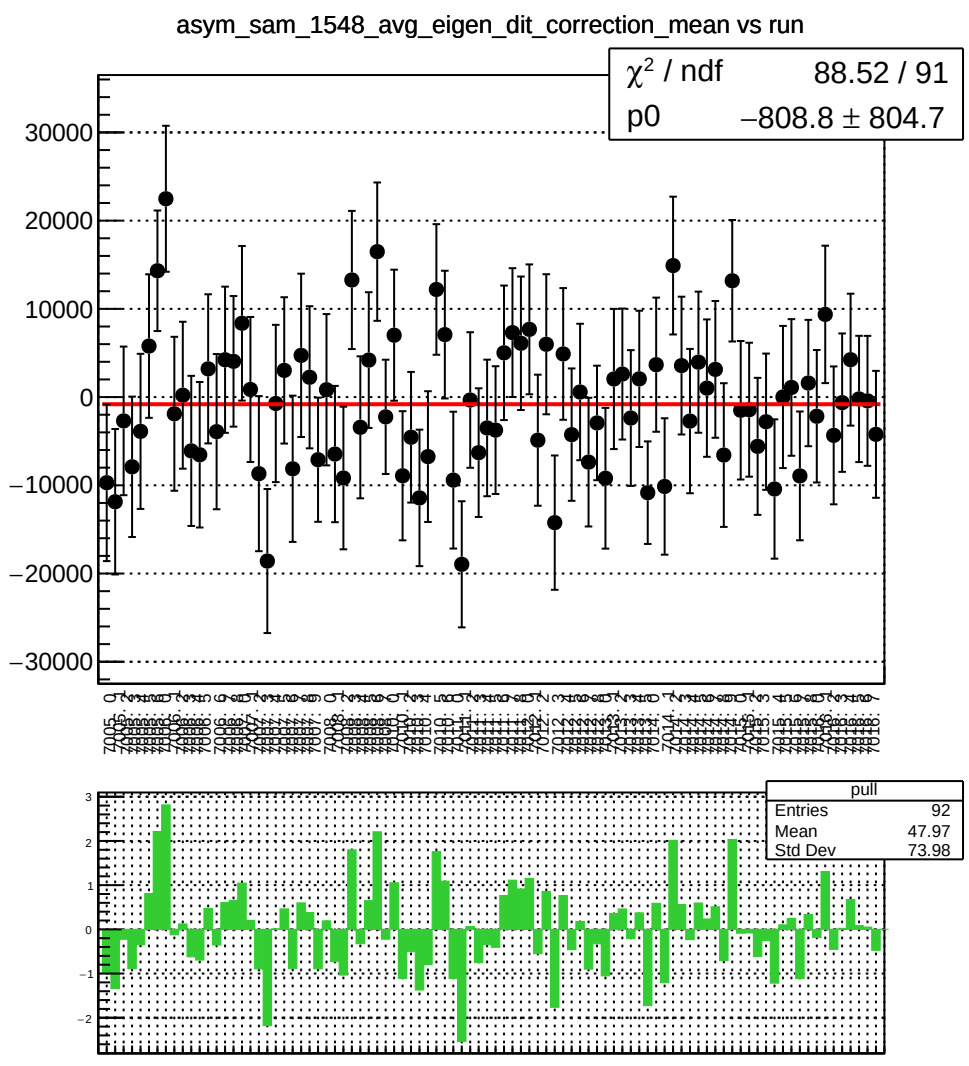

pull1D
Entries 92
Mean 0.002139
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

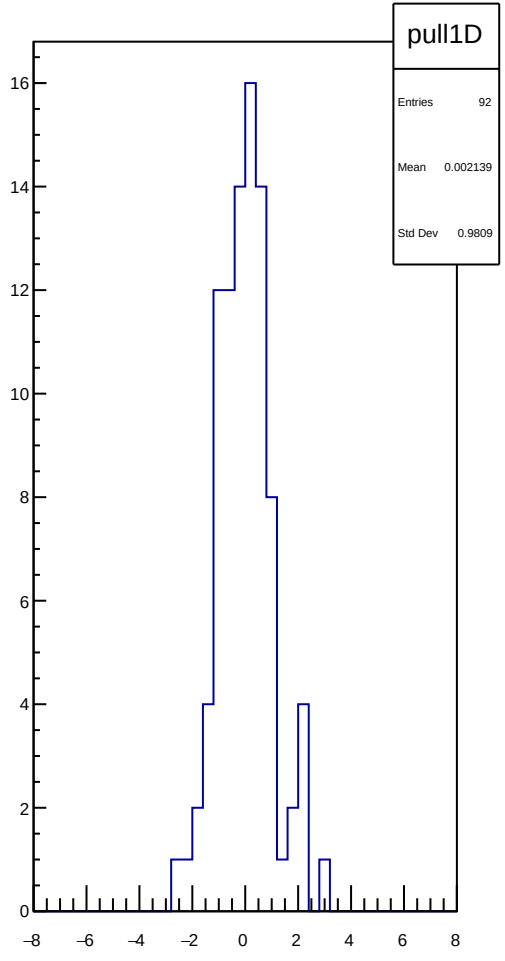

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 5417 / 91
p0 744 ± 0.569
900
850
800
750
700

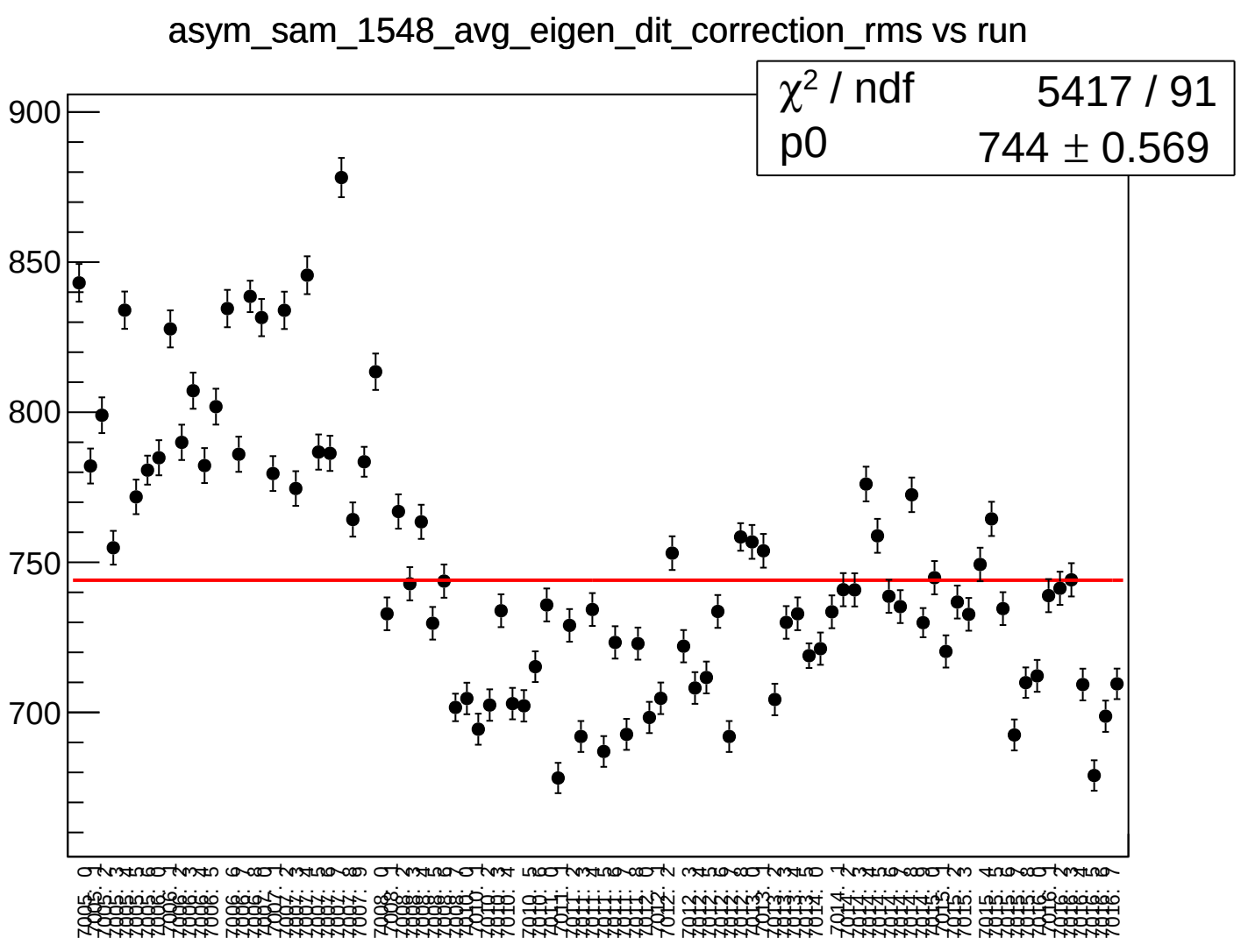

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 64.81 / 91
p0 −38.63 ± 113.9
pull
Entries 92
Mean 333.3
Std Dev 0

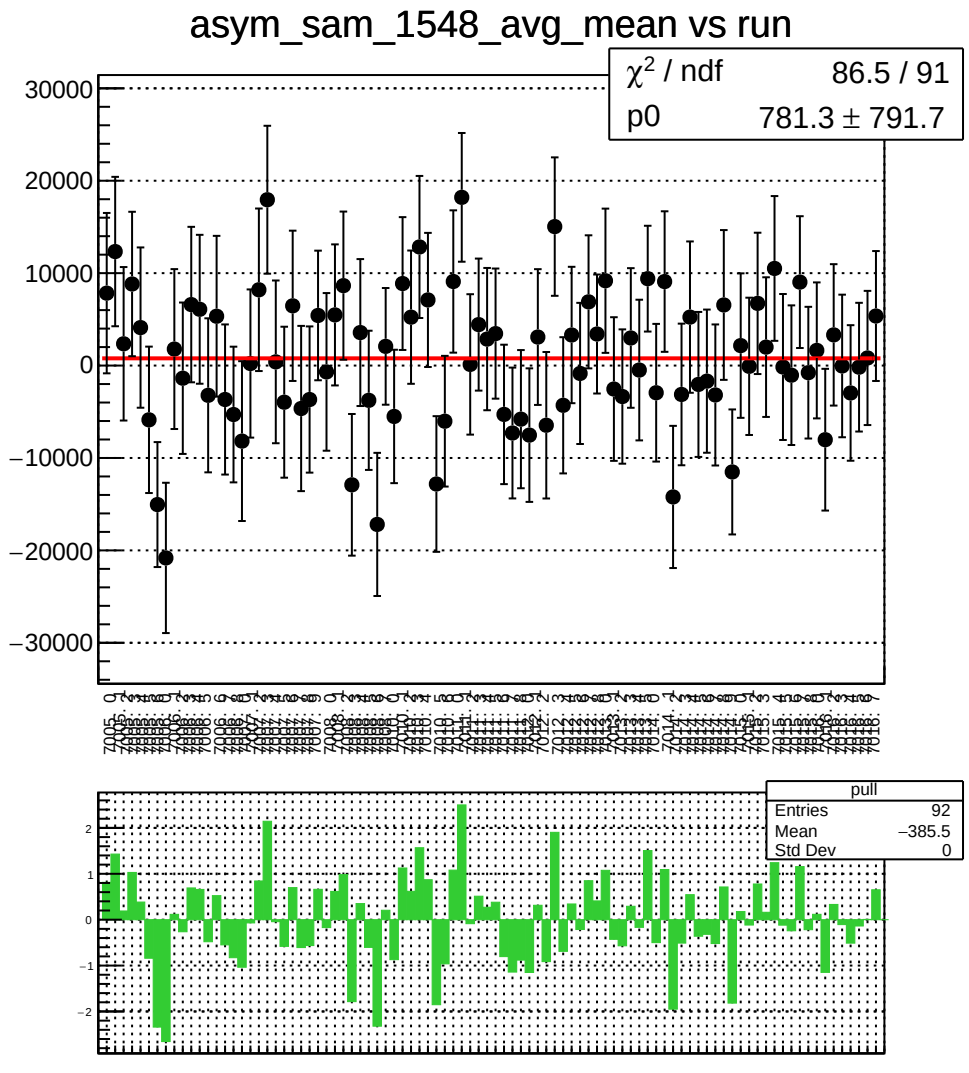

pull1D
Entries 92
Mean 0.01236
Std Dev 0.8392

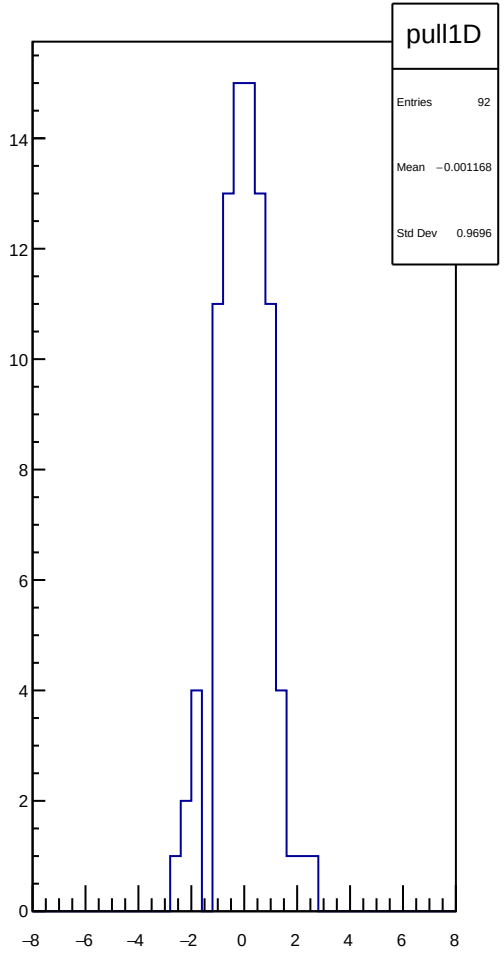

eigen_dit_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 2064 / 91
p0 105.4 ± 0.08052
114
112
110
108
106
104
102
100
98

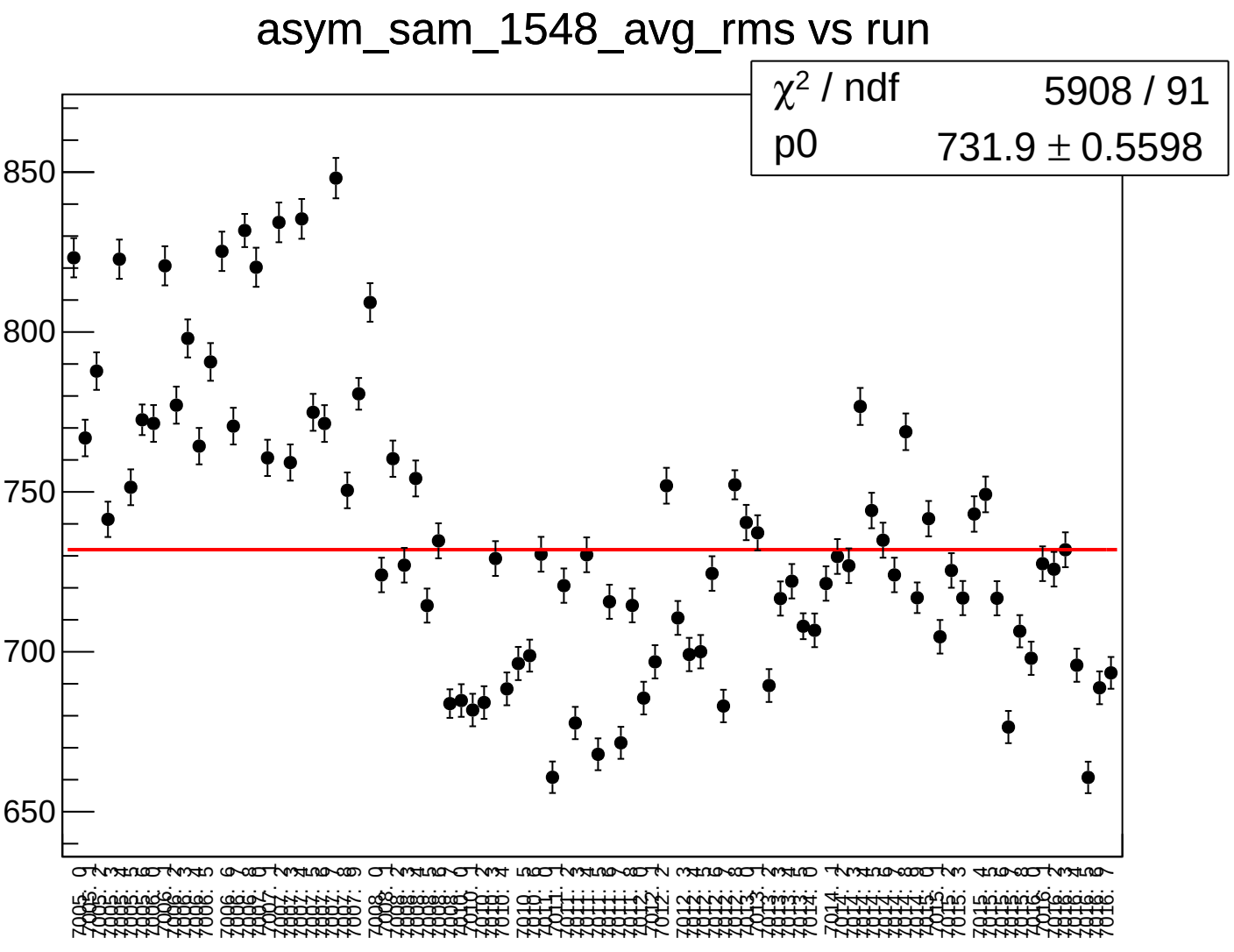

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.52 / 91
p0 −808.8 ± 804.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 47.97
Std Dev 73.98
3
2
1
0
−1
−2

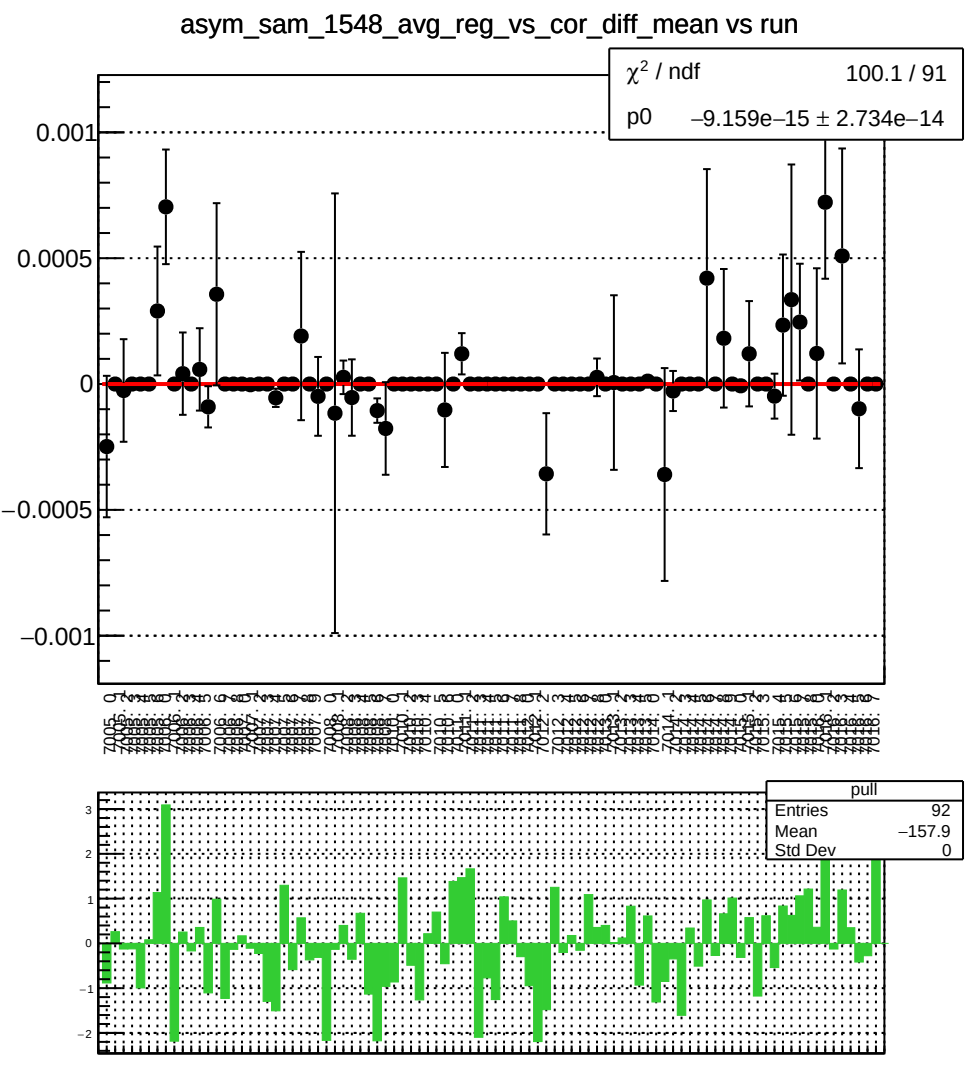

pull1D
Entries 92
Mean 0.002139
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

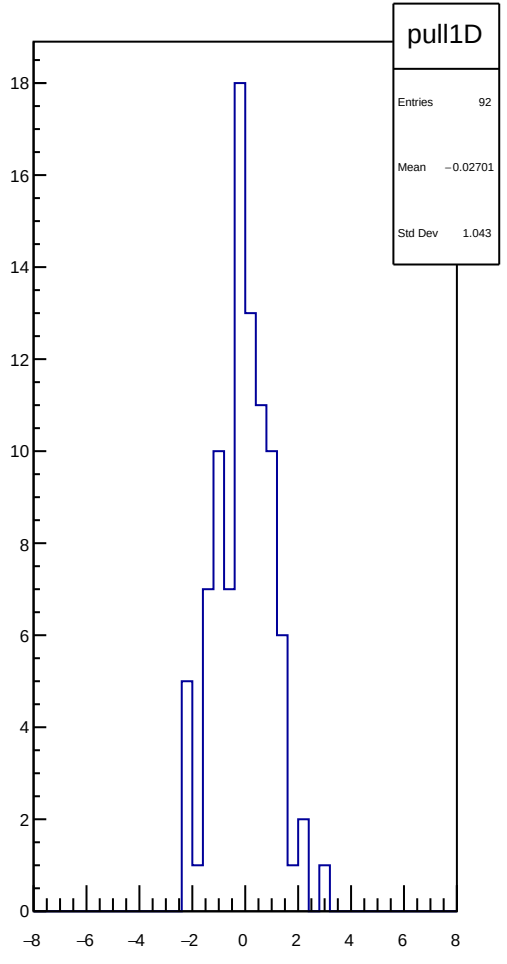

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 5417 / 91
p0 744 ± 0.569
900
850
800
750
700

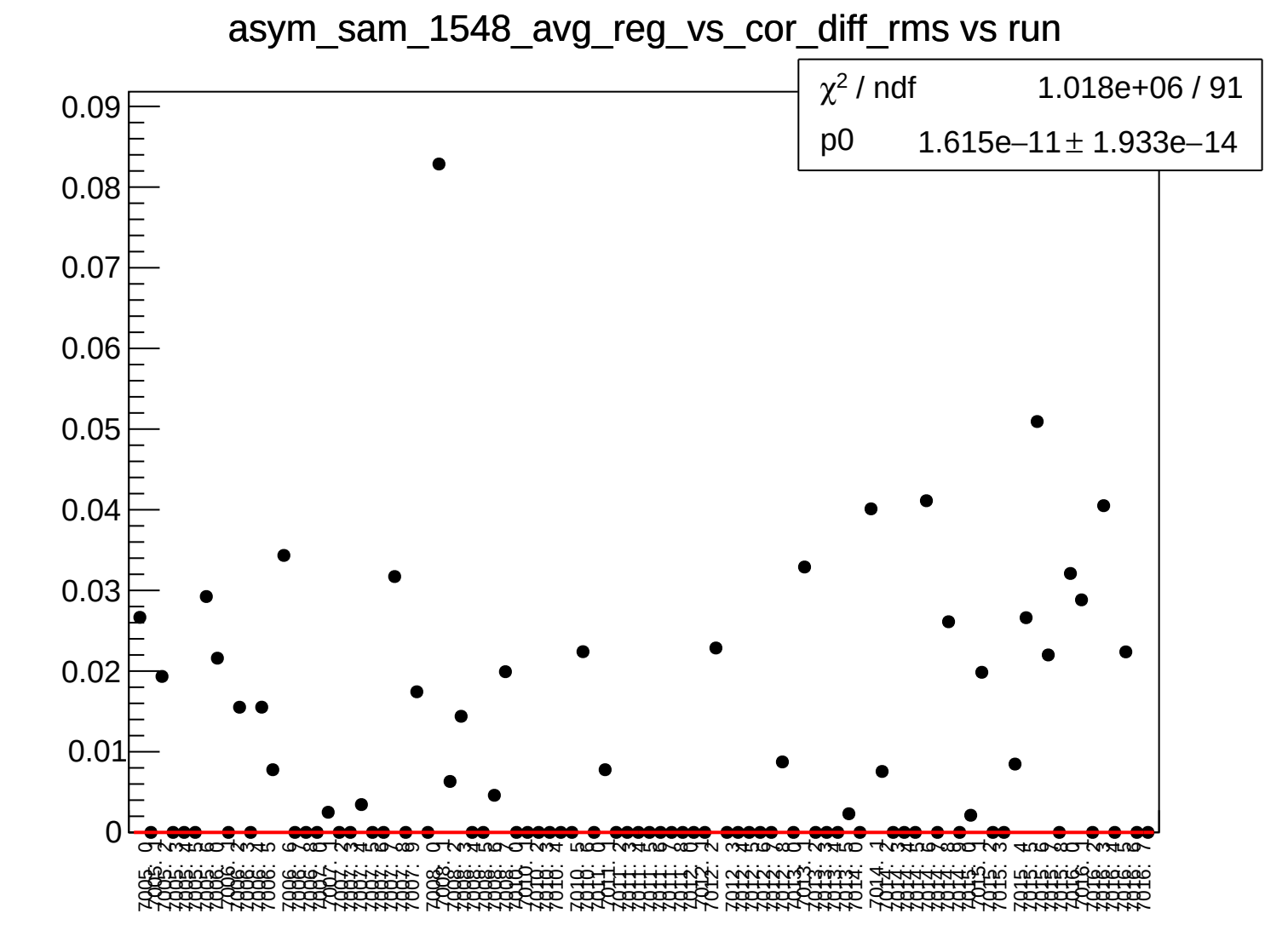

asym_sam_1548_avg_mean vs run
χ² / ndf 86.5 / 91
p0 781.3 ± 791.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −385.5
Std Dev 0
2
1
0
−1
−2

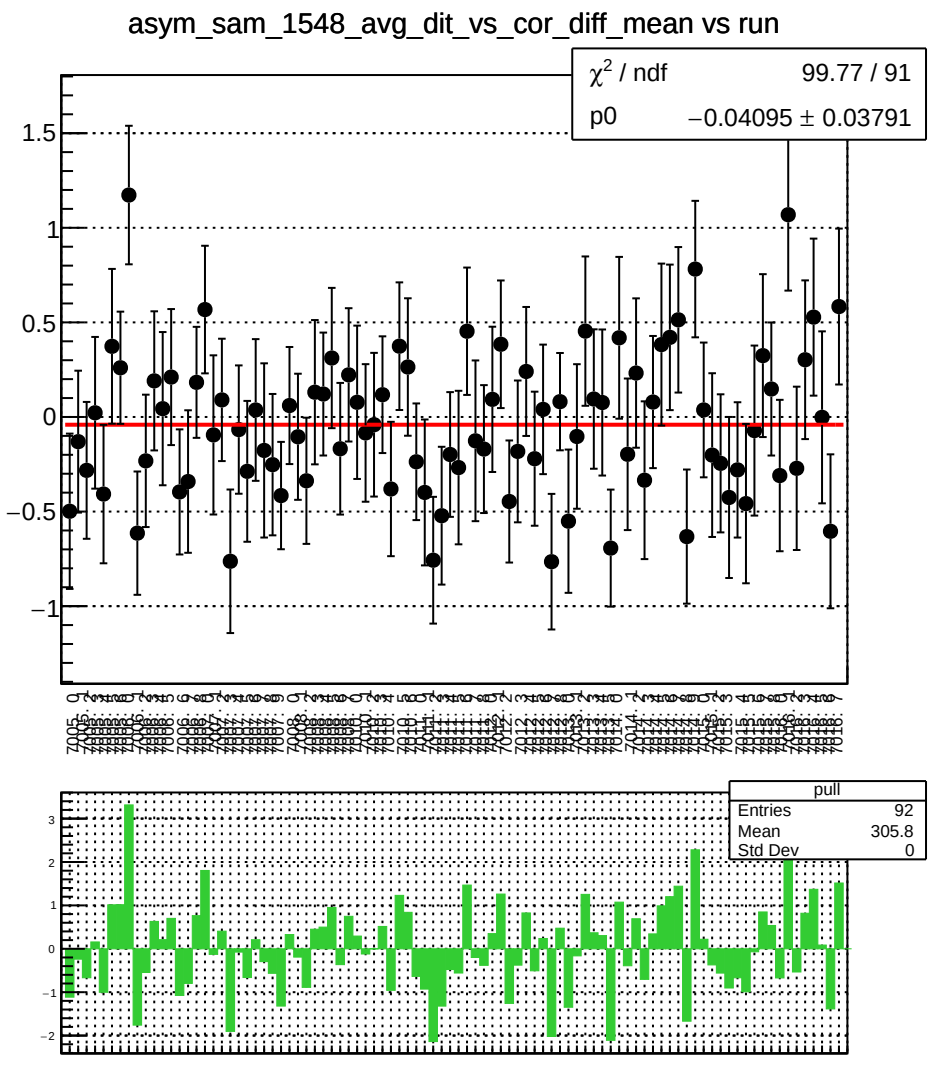

pull1D
Entries 92
Mean −0.001168
Std Dev 0.9696
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

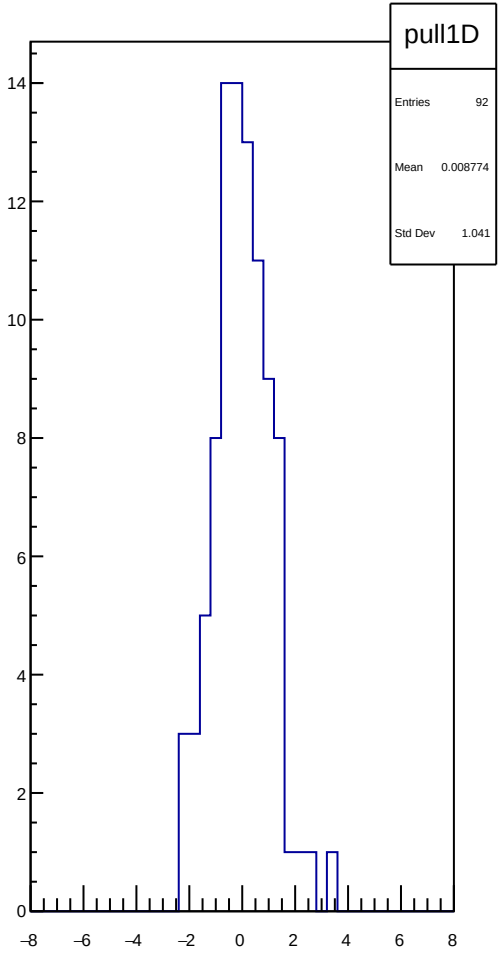

asym_sam_1548_avg_rms vs run
χ² / ndf 5908 / 91
p0 731.9 ± 0.5598
850
800
750
700
650

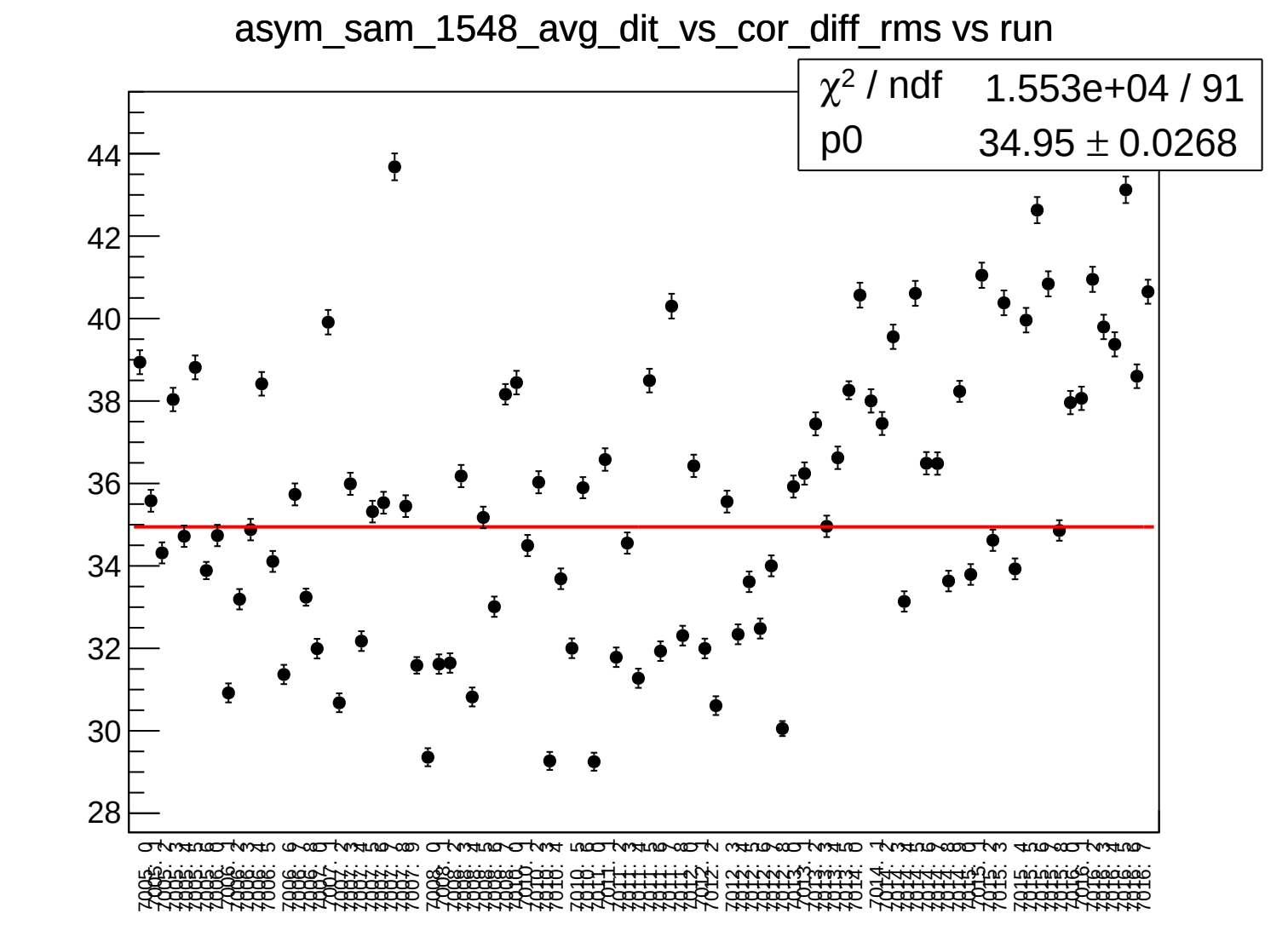

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.1 / 91
p0 −9.159e−15 ± 2.734e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean −157.9
Std Dev 0
3
2
1
0
−1
−2

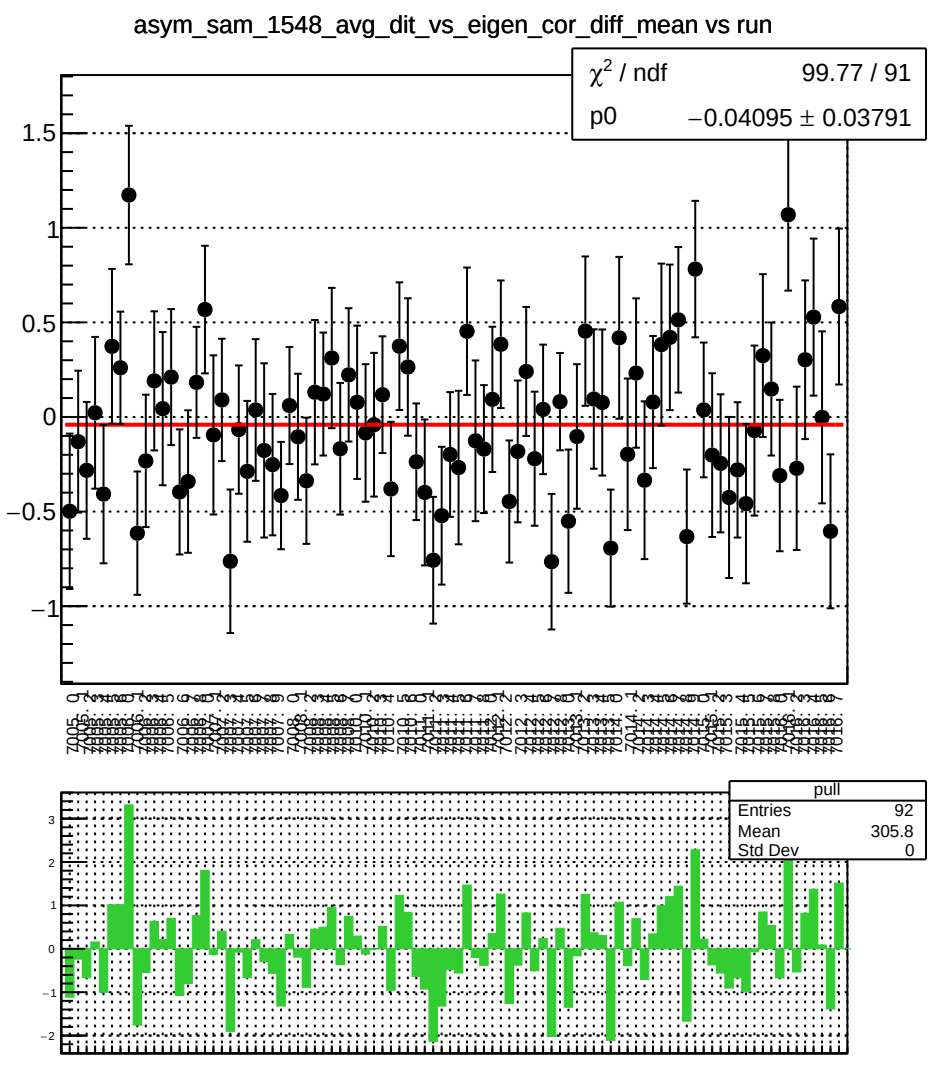

pull1D
Entries 92
Mean −0.02701
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

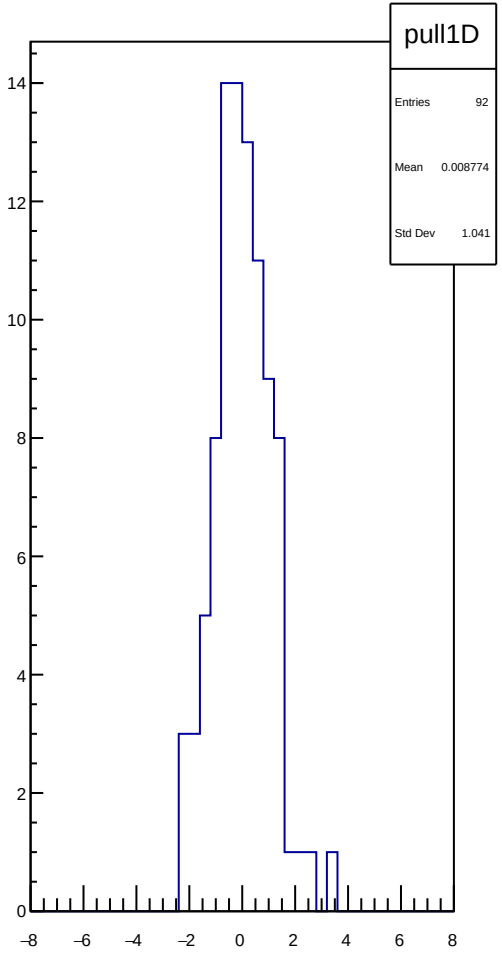

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 91
p0 1.615e−11 ± 1.933e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

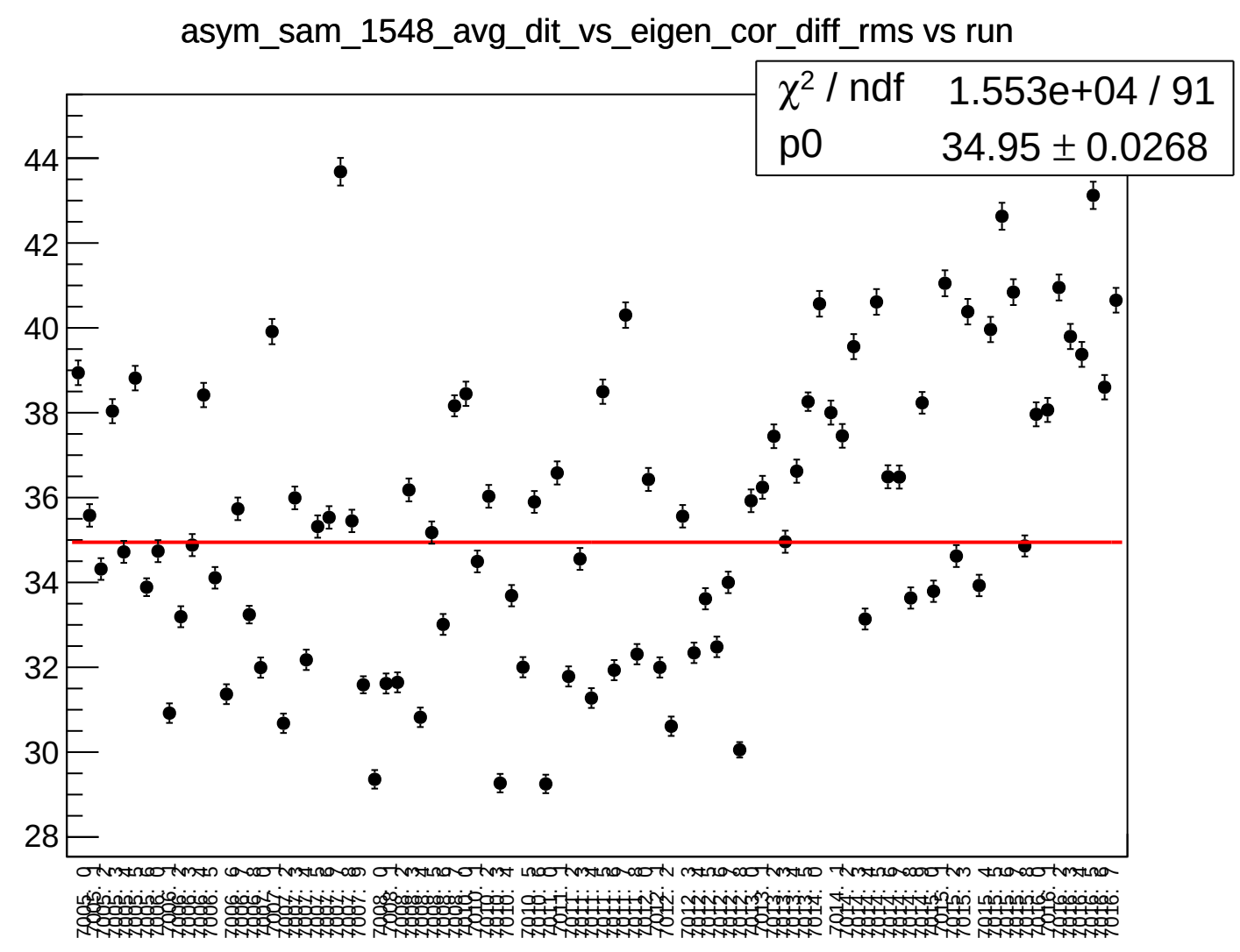

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.77 / 91
p0 −0.04095 ± 0.03791
pull
Entries 92
Mean 305.8
Std Dev 0

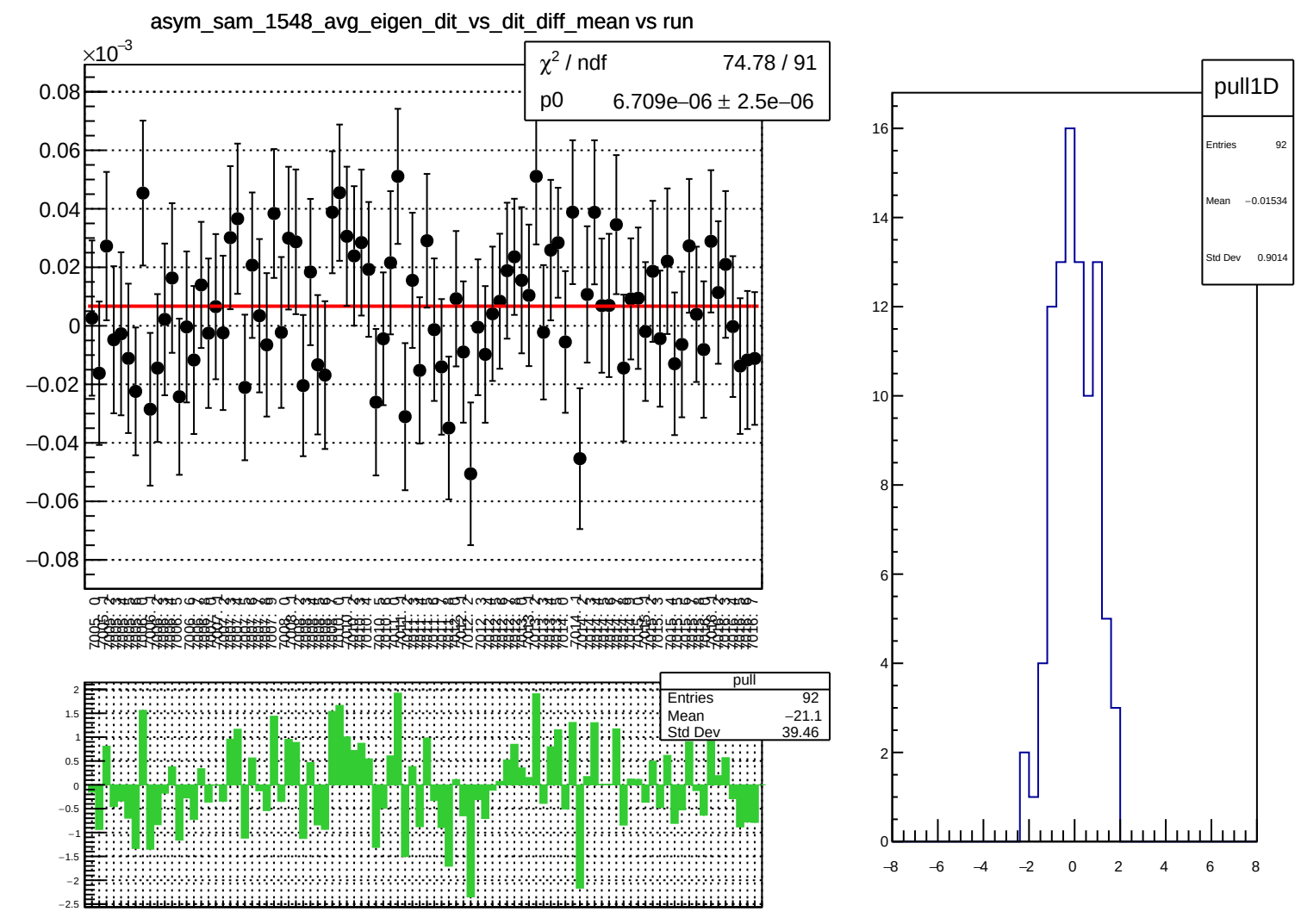

pull1D
Entries 92
Mean 0.008774
Std Dev 1.041

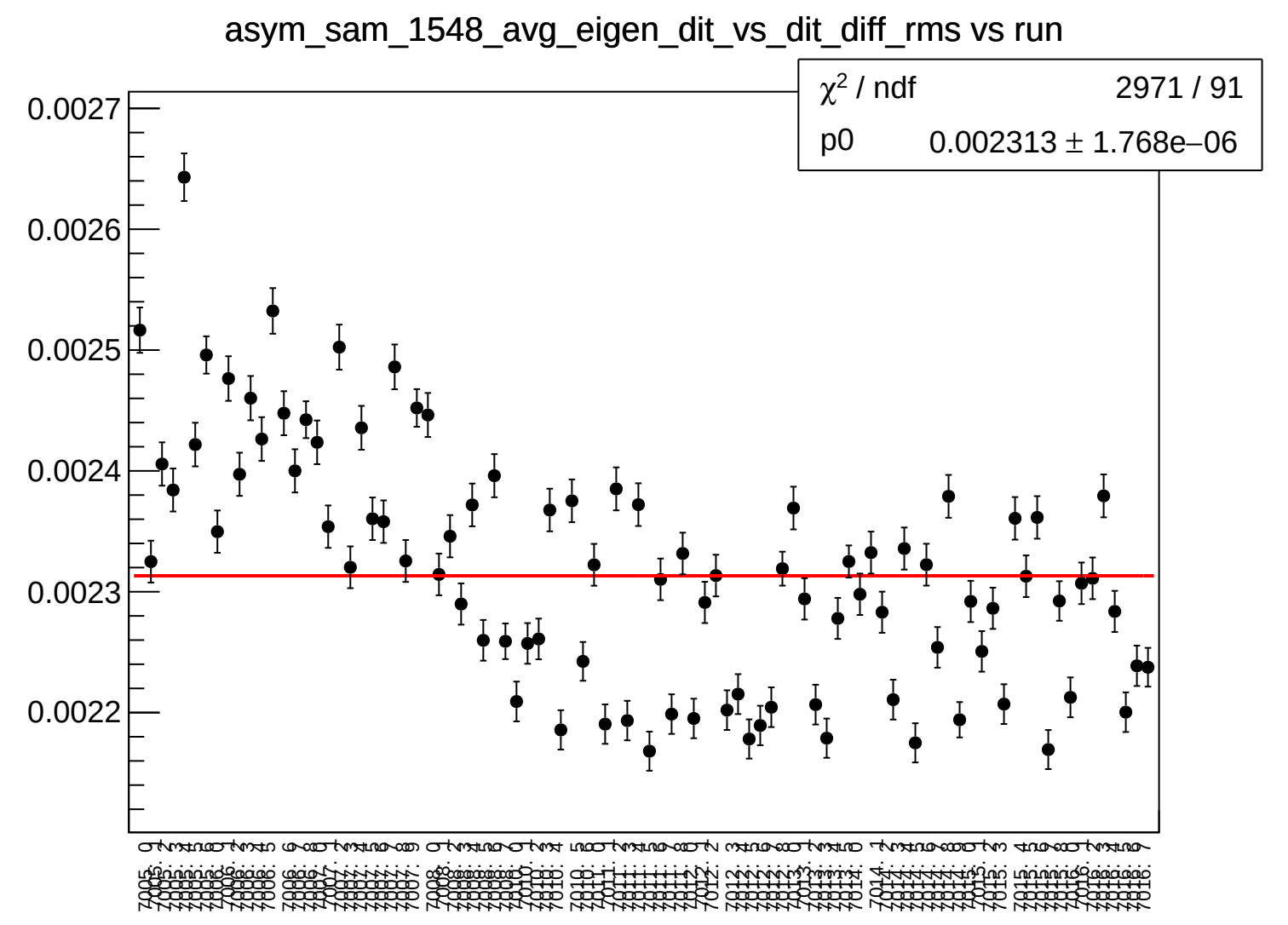

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.553e+04 / 91
p0 34.95 ± 0.0268
44
42
40
38
36
34
32
30
28

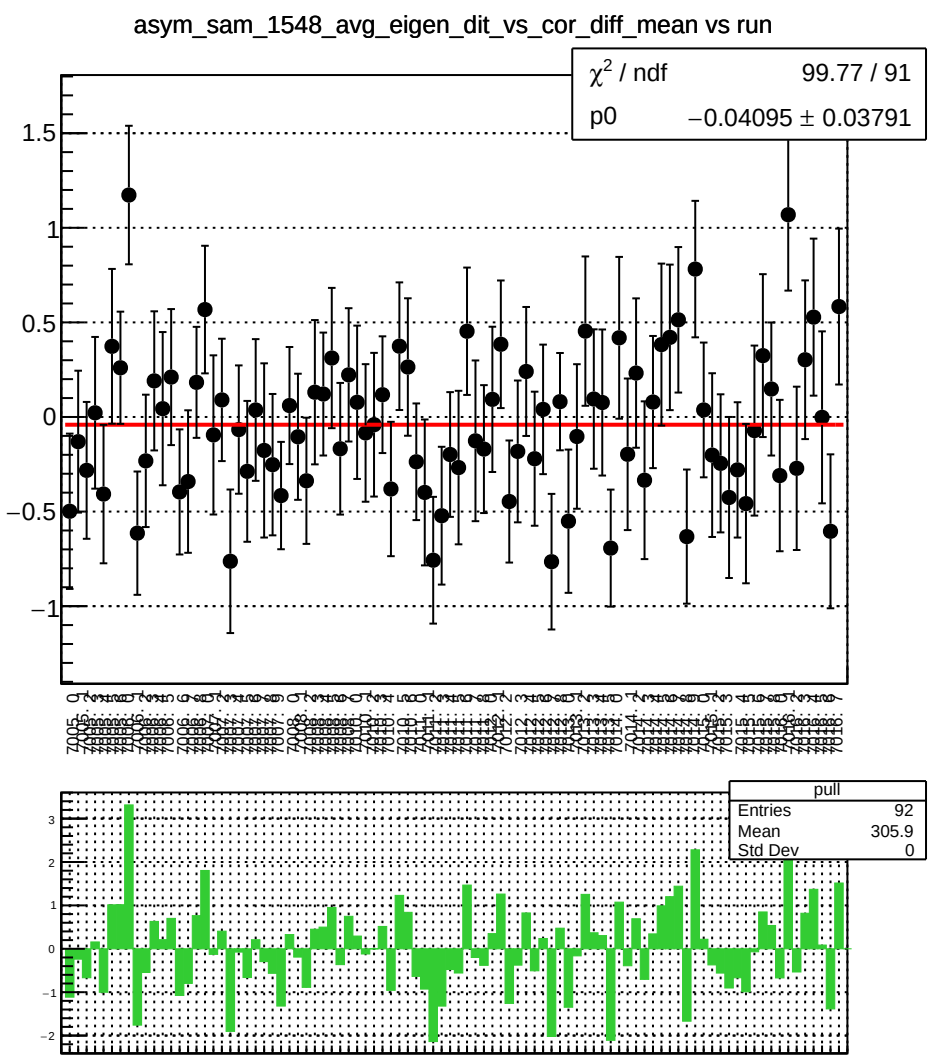

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.77 / 91
p0 −0.04095 ± 0.03791
pull
Entries 92
Mean 305.8
Std Dev 0

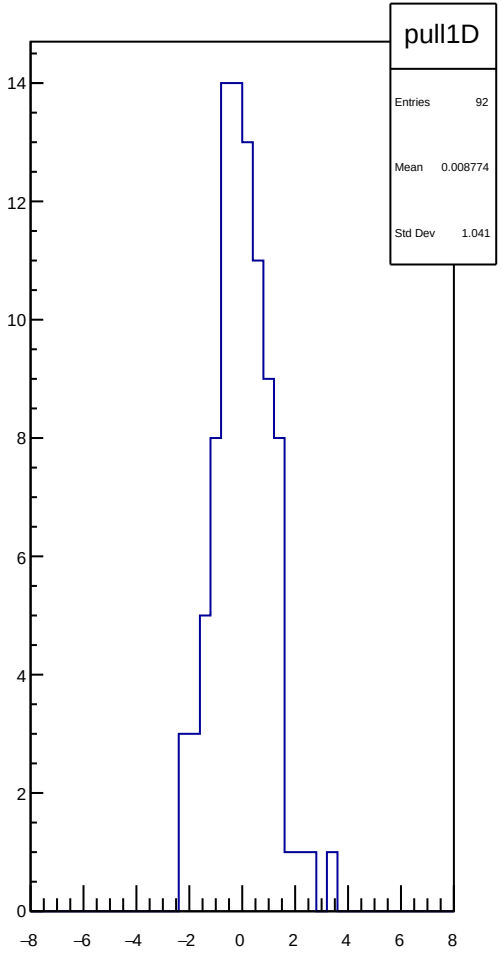

pull1D
Entries 92
Mean 0.008774
Std Dev 1.041

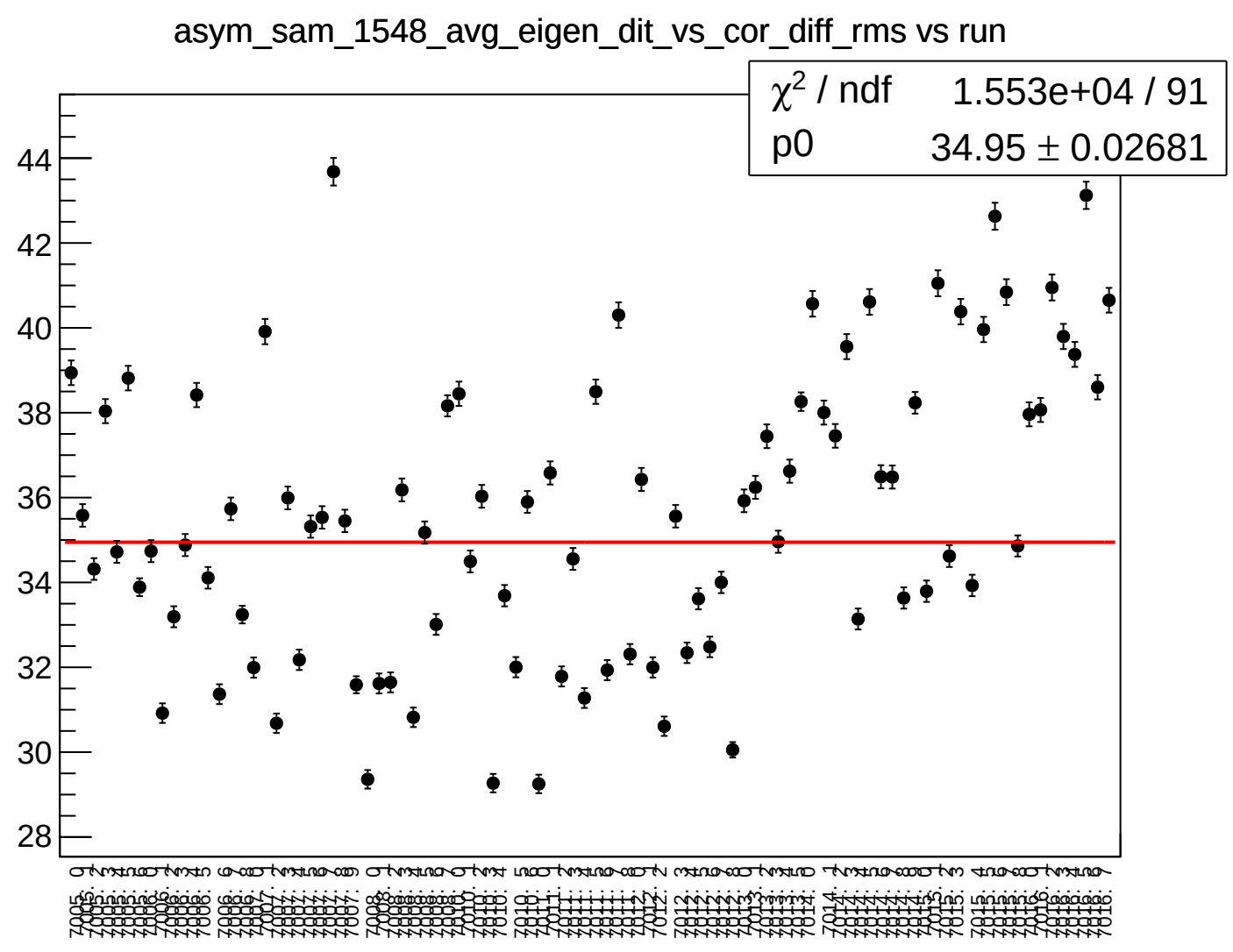

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.553e+04 / 91
p0 34.95 ± 0.0268
44
42
40
38
36
34
32
30
28

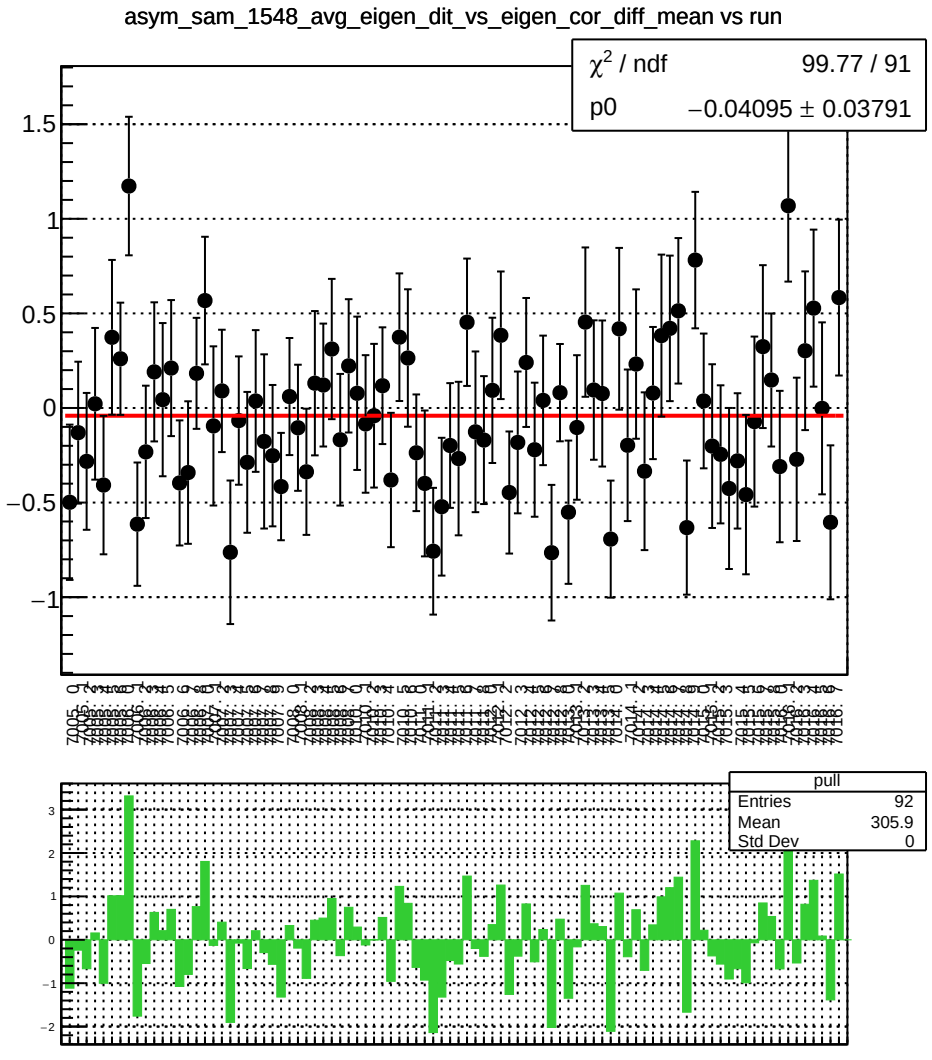

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.78 / 91
p0 6.709e−06 ± 2.5e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 92
Mean −21.1
Std Dev 39.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.01534
Std Dev 0.9014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

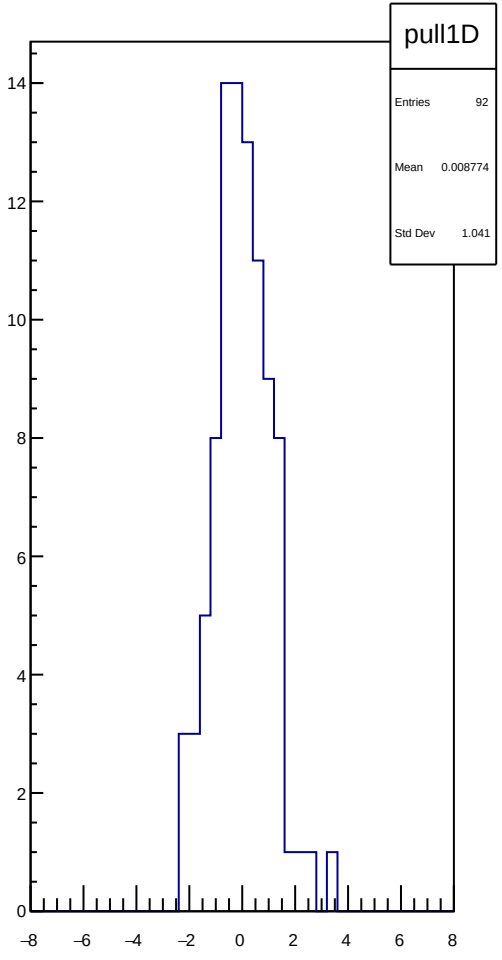

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2971 / 91
p0 0.002313 ± 1.768e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

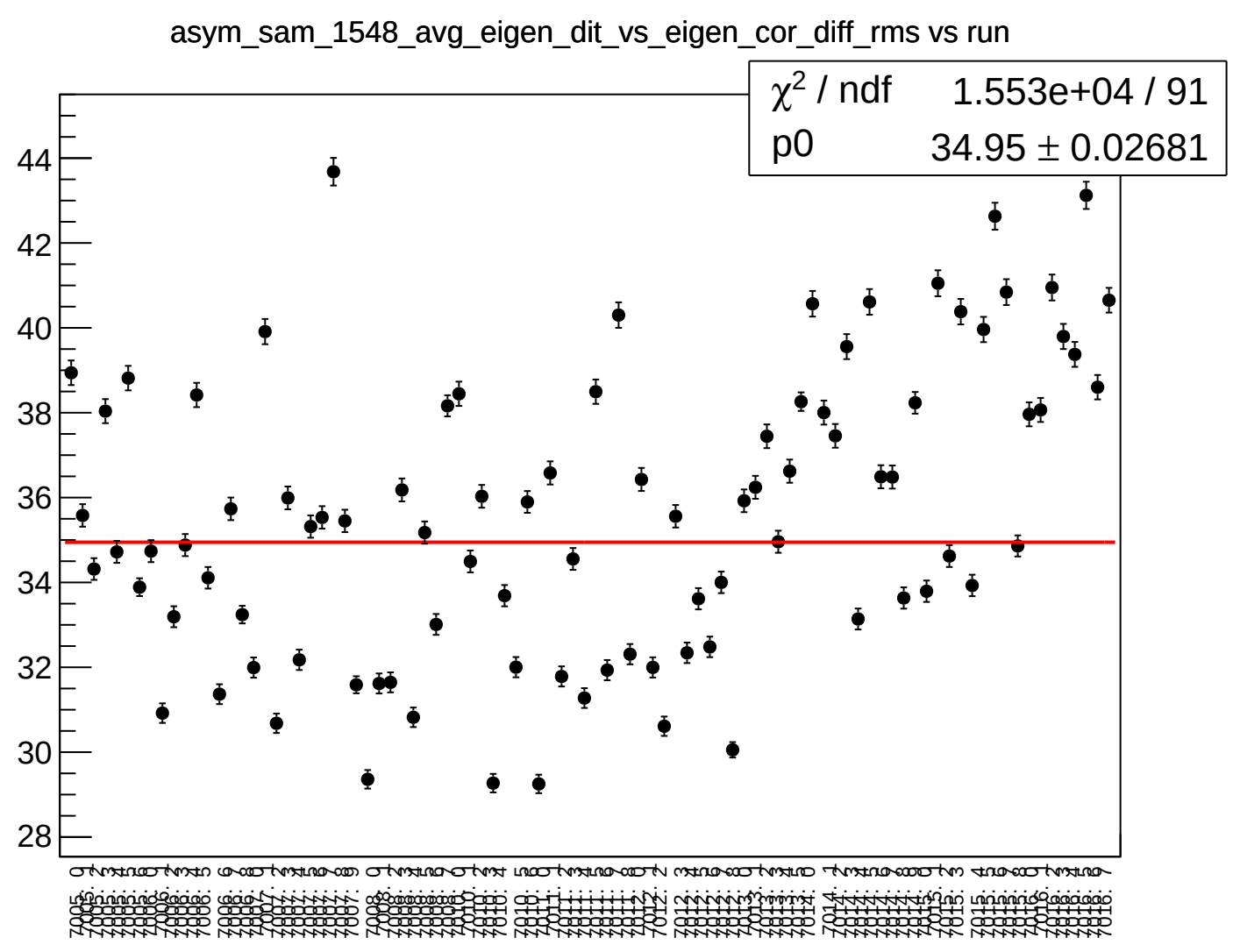

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.77 / 91
p0 −0.04095 ± 0.03791
pull
Entries 92
Mean 305.9
Std Dev 0

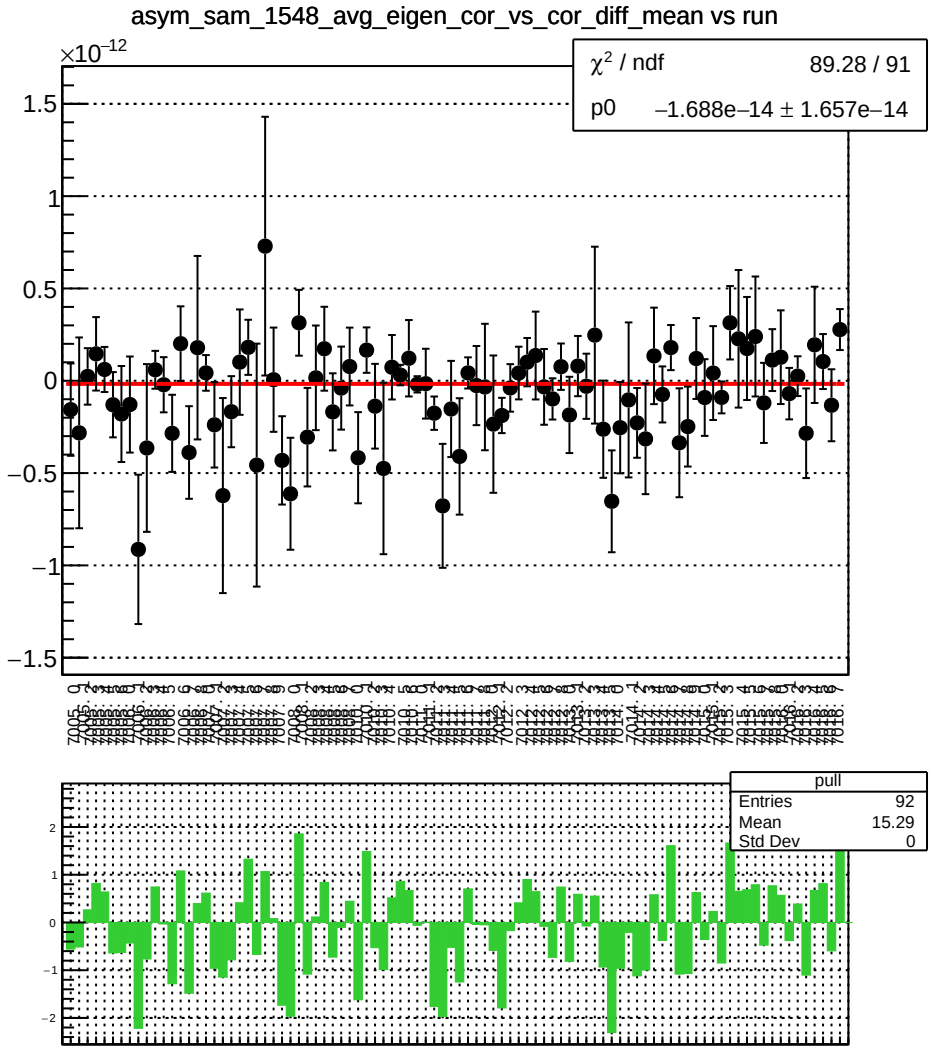

pull1D
Entries 92
Mean 0.008774
Std Dev 1.041

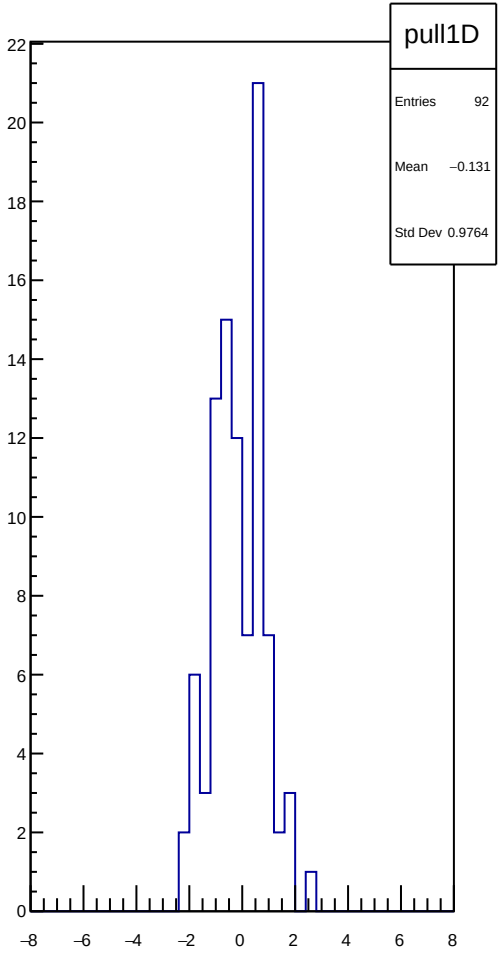

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.553e+04 / 91
p0 34.95 ± 0.02681
44
42
40
38
36
34
32
30
28

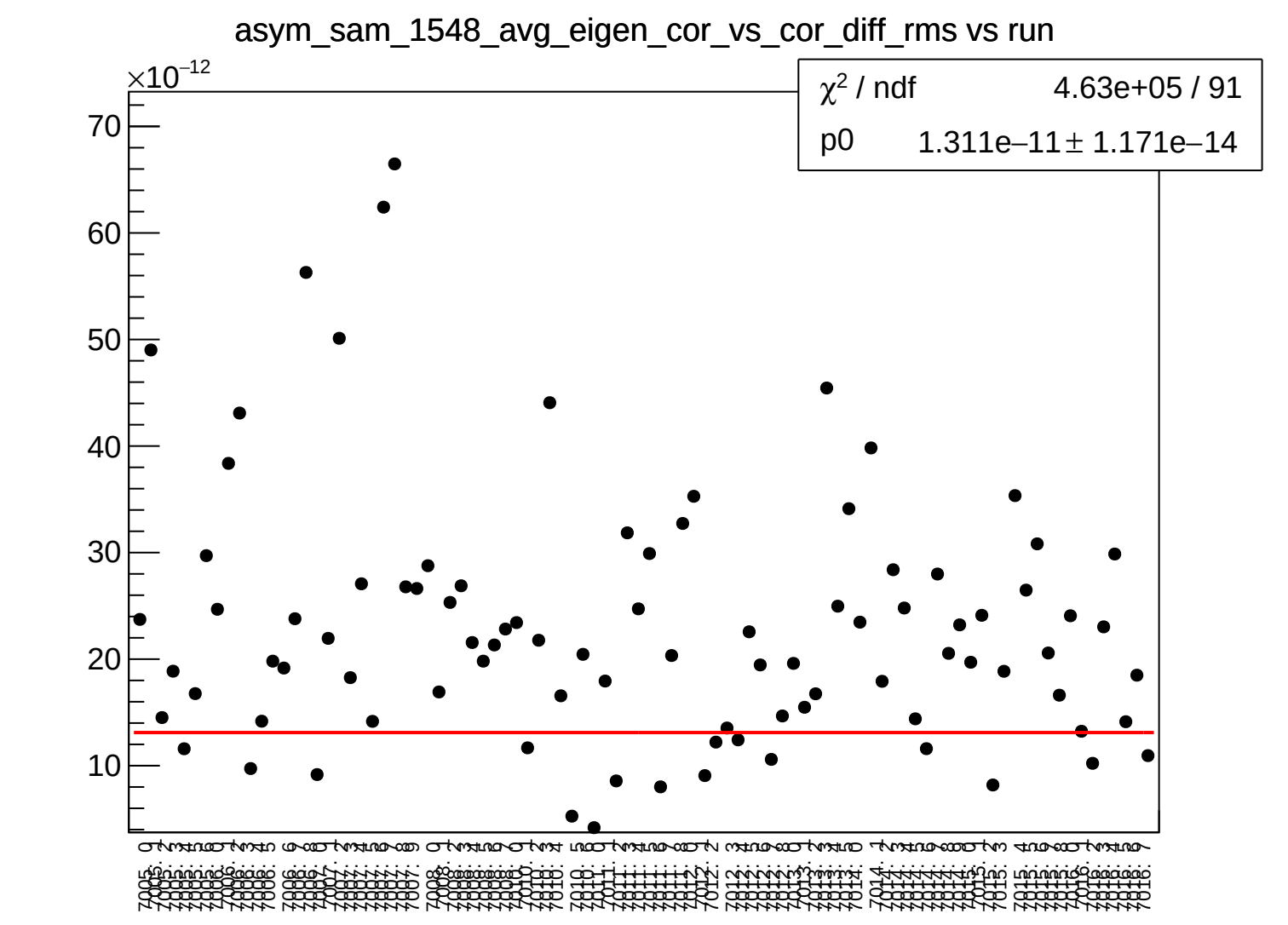

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.77 / 91
p0 −0.04095 ± 0.03791
pull
Entries 92
Mean 305.9
Std Dev 0

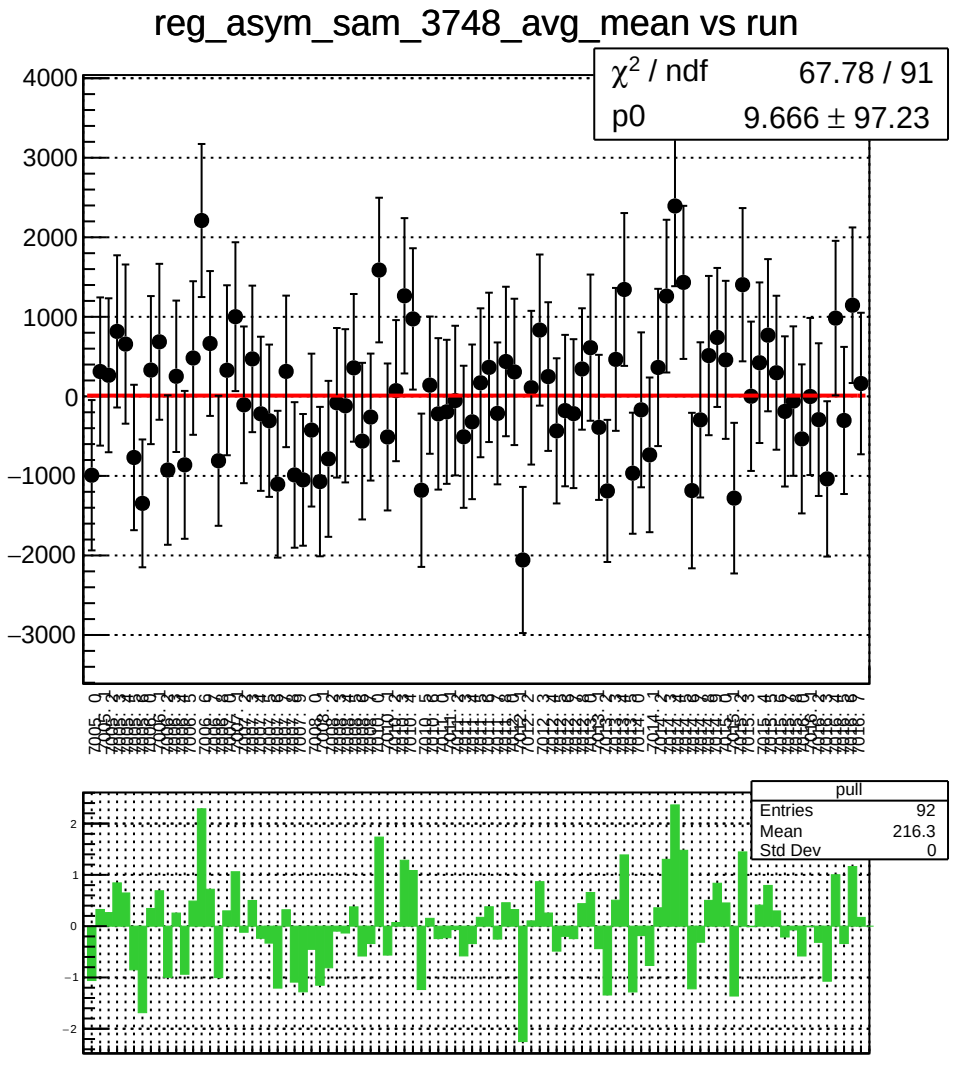

pull1D
Entries 92
Mean 0.008774
Std Dev 1.041

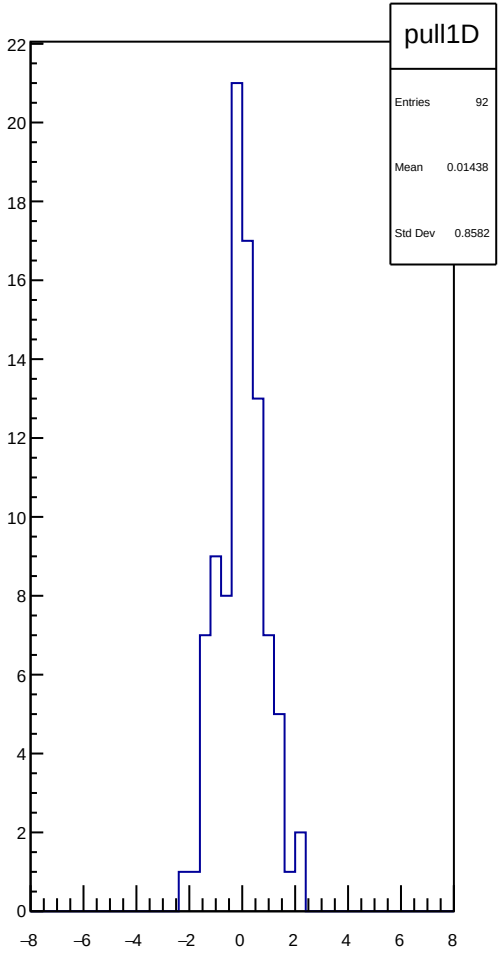

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.553e+04 / 91
p0 34.95 ± 0.02681
44
42
40
38
36
34
32
30
28

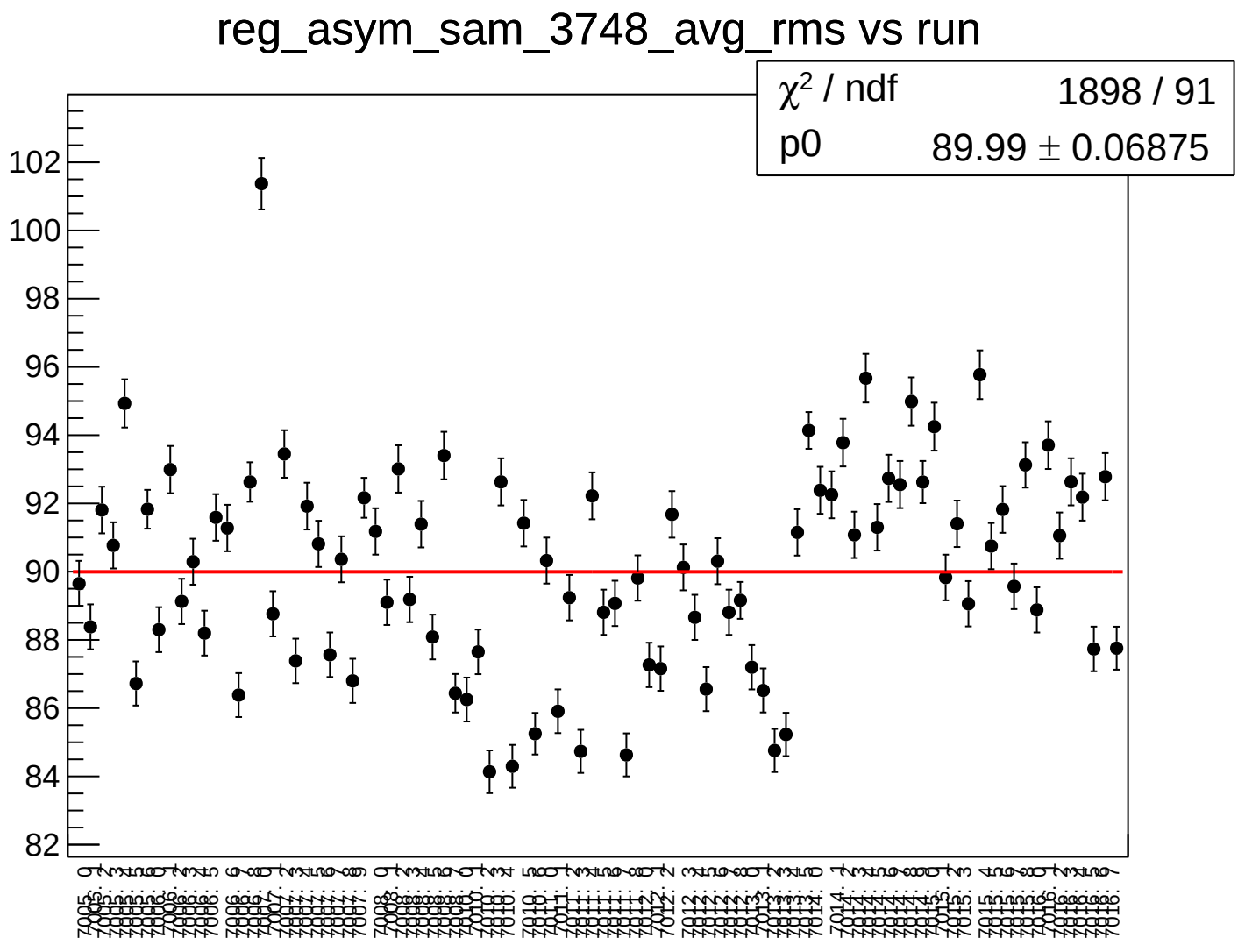

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.28 / 91
p0 −1.688e−14 ± 1.657e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 92
Mean 15.29
Std Dev 0
2
1
0
−1
−2

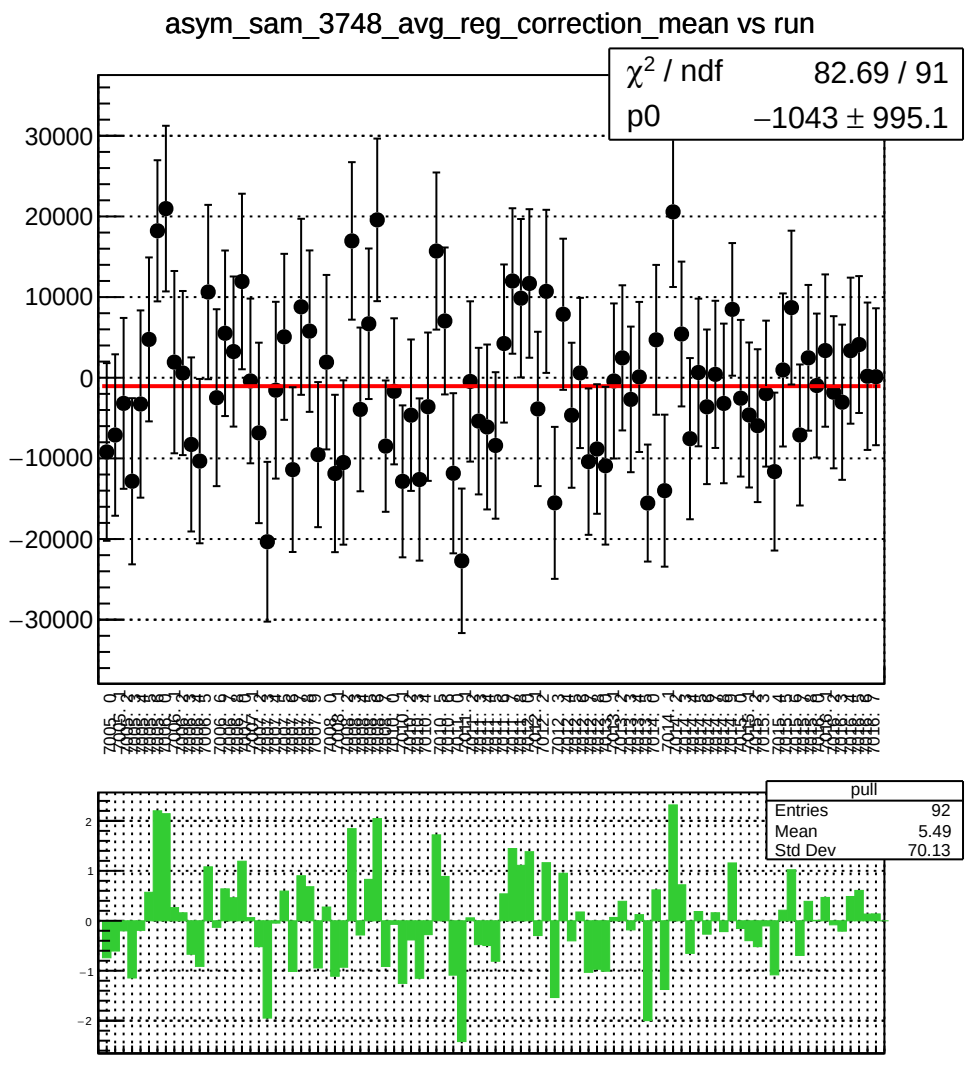

pull1D
Entries 92
Mean −0.131
Std Dev 0.9764
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

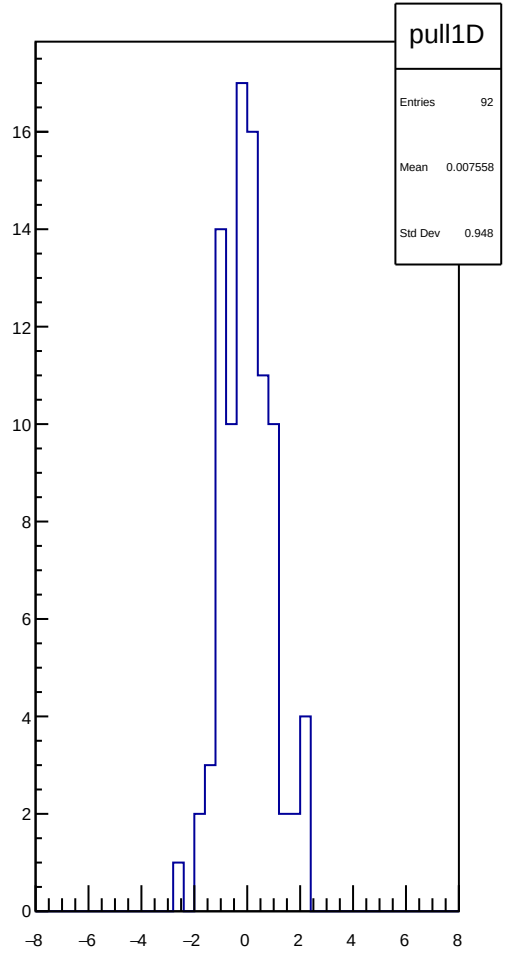

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.63e+05 / 91
p0 1.311e−11 ± 1.171e−14
70
60
50
40
30
20
10

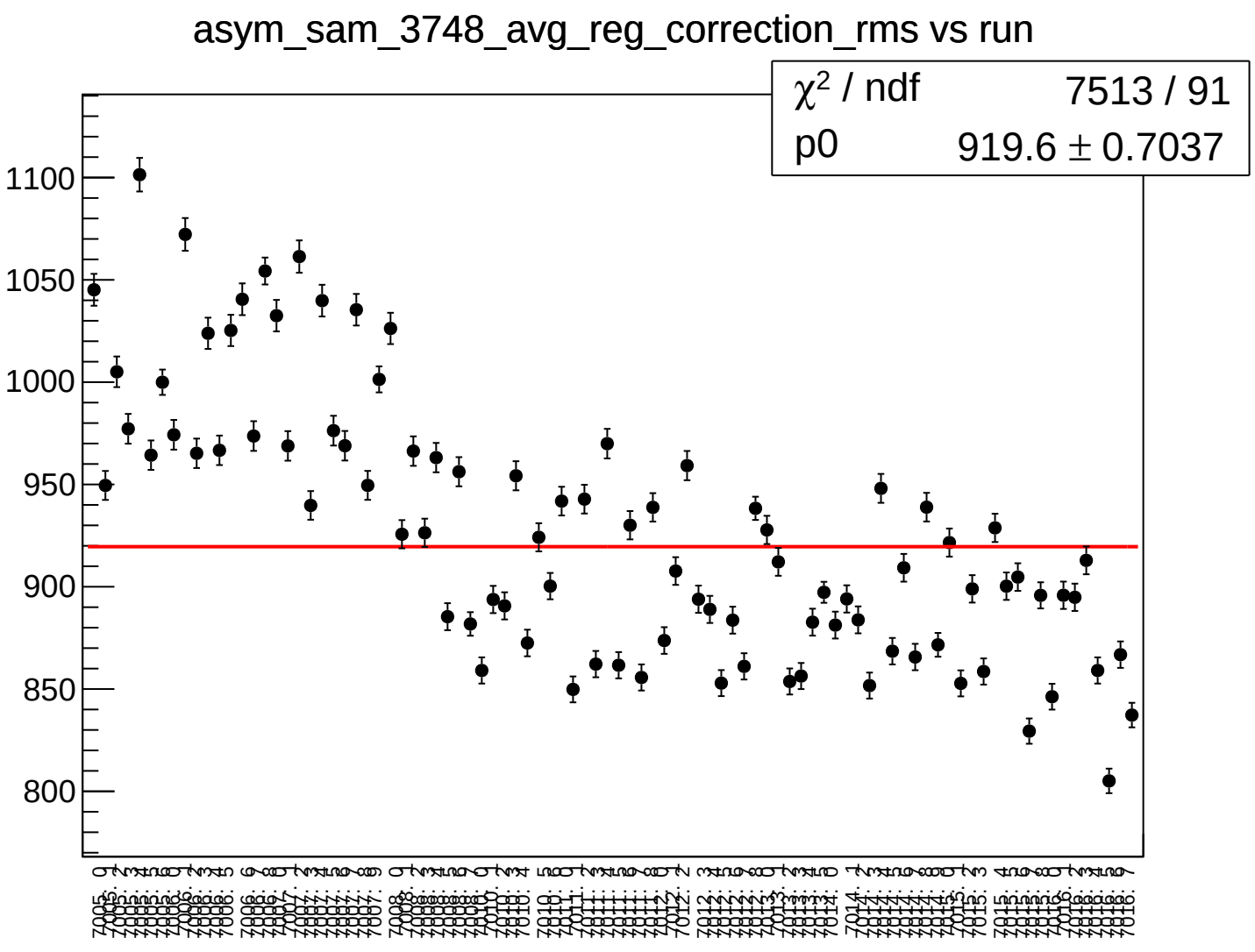

reg_asym_sam_3748_avg_mean vs run
$\chi^2$ / ndf 67.78 / 91
p0 9.666 ± 97.23
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 216.3
Std Dev 0
2
1
0
−1
−2

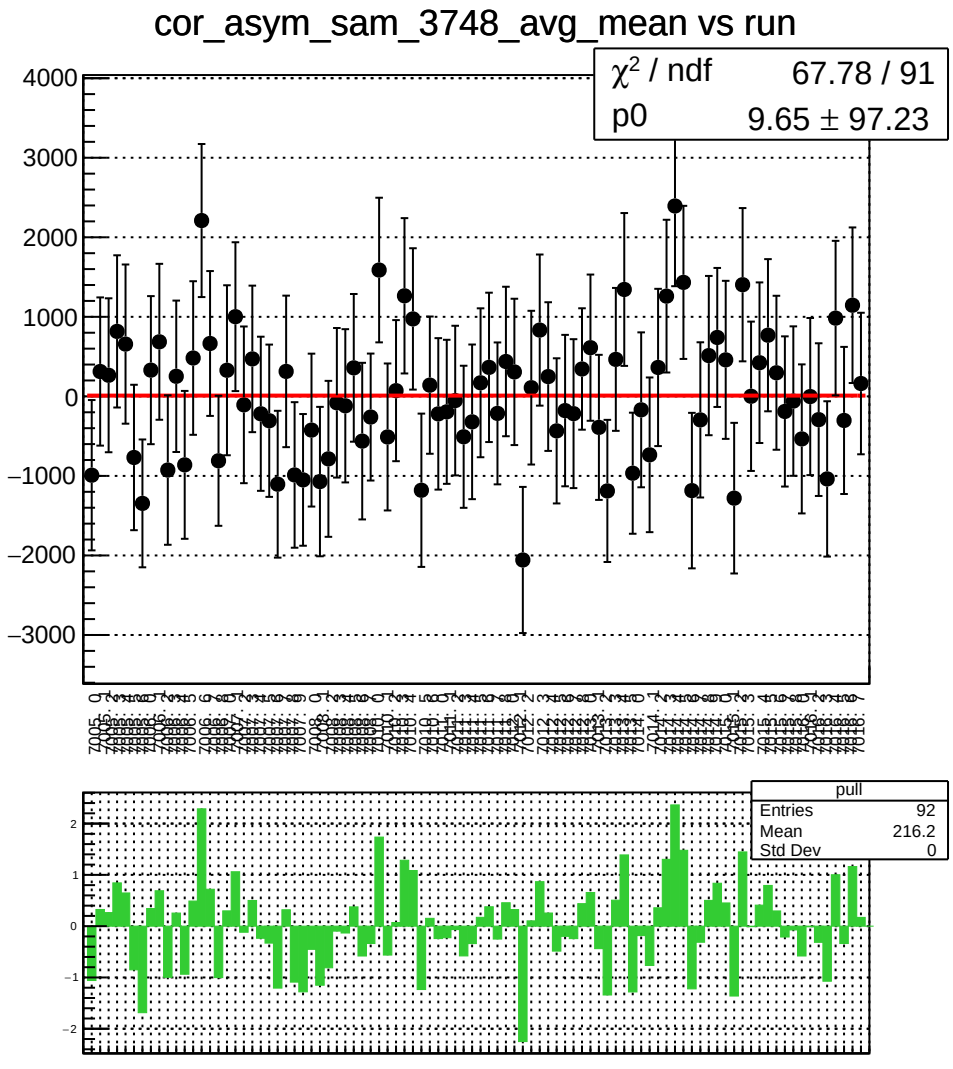

pull1D
Entries 92
Mean 0.01438
Std Dev 0.8582
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

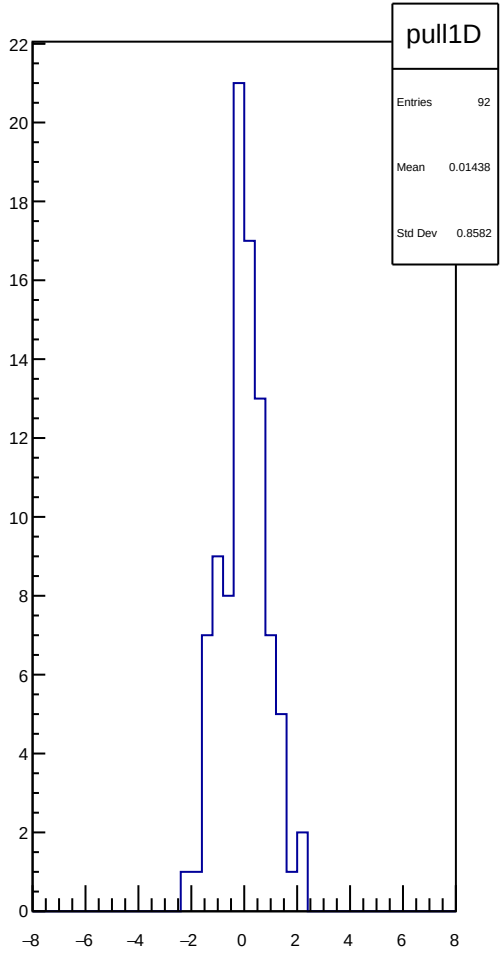

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 1898 / 91
p0 89.99 ± 0.06875
102
100
98
96
94
92
90
88
86
84
82

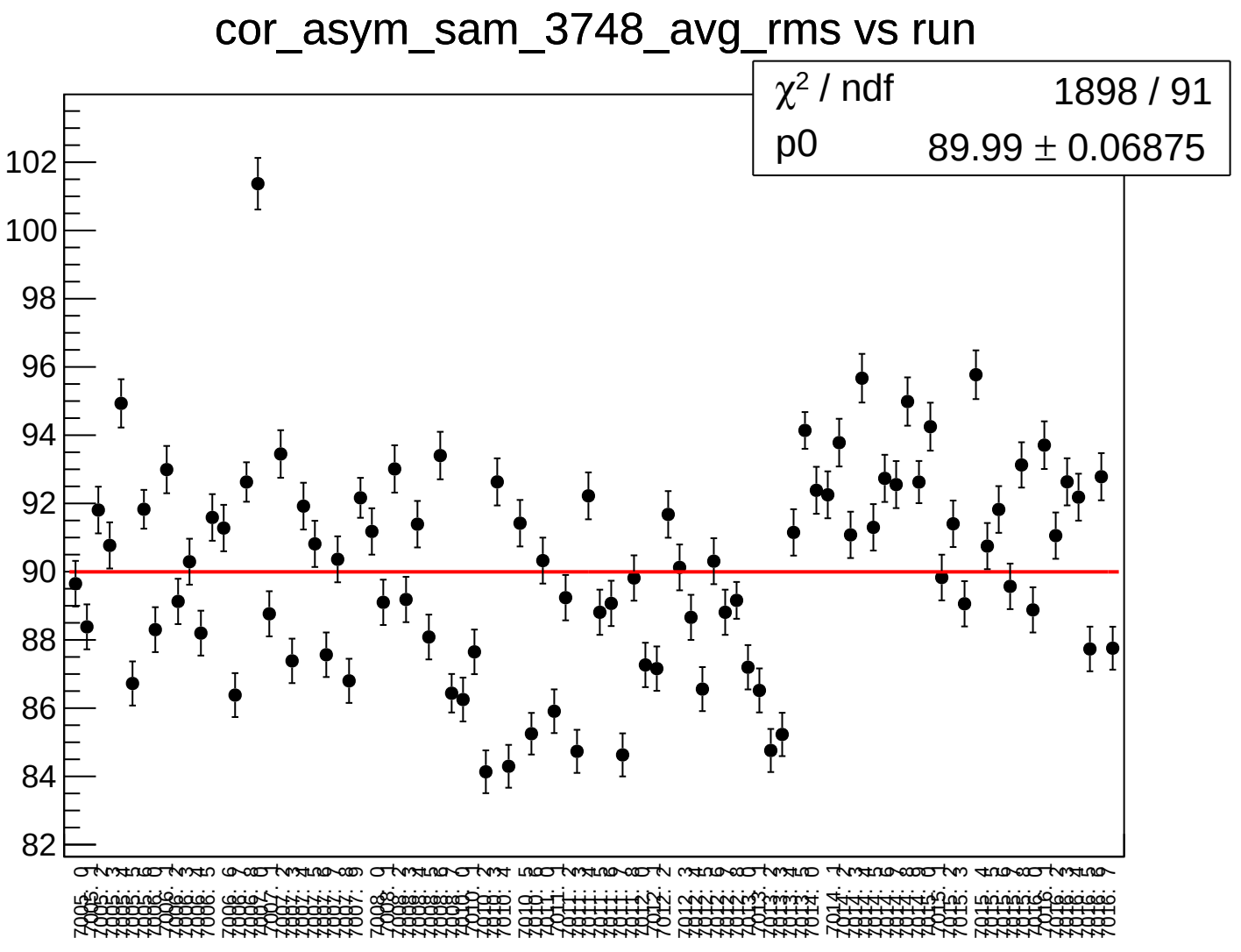

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 82.69 / 91
p0 −1043 ± 995.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 5.49
Std Dev 70.13
2
1
0
−1
−2

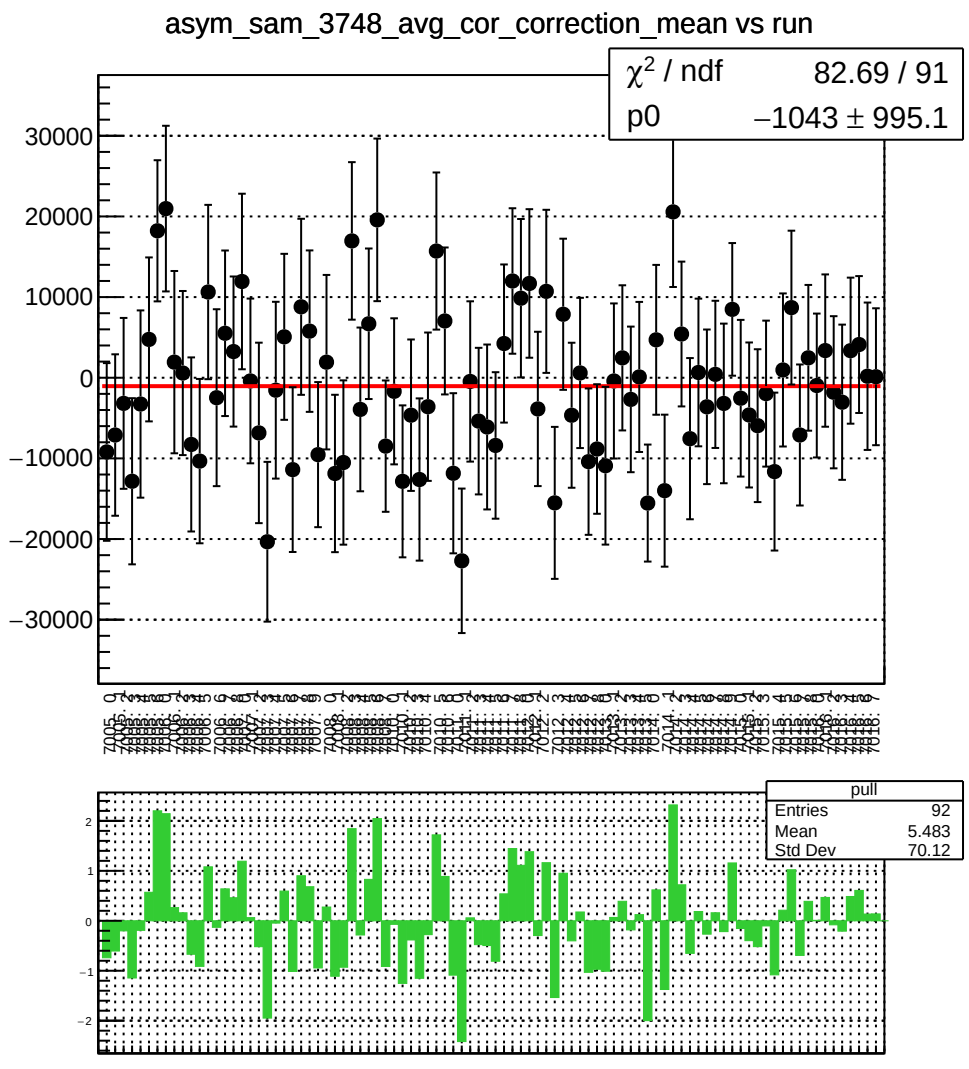

pull1D
Entries 92
Mean 0.007558
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

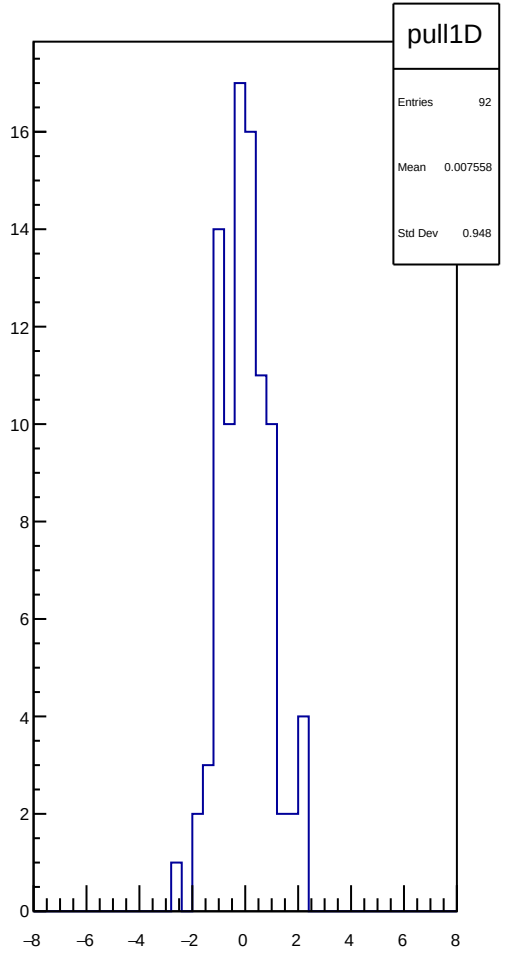

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 7513 / 91
p0 919.6 ± 0.7037
1100
1050
1000
950
900
850
800

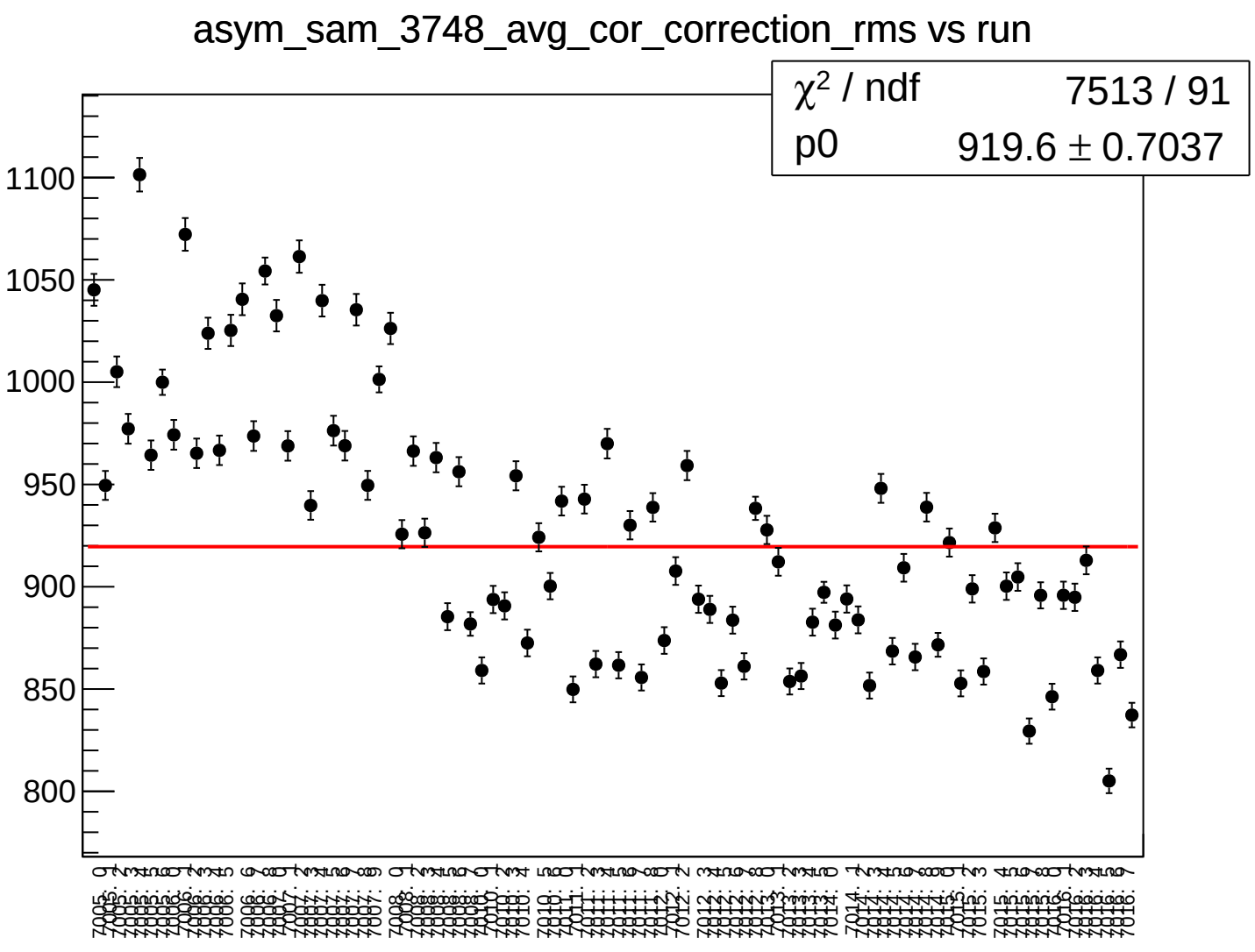

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 67.78 / 91
p0 9.65 ± 97.23
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 216.2
Std Dev 0
2
1
0
−1
−2

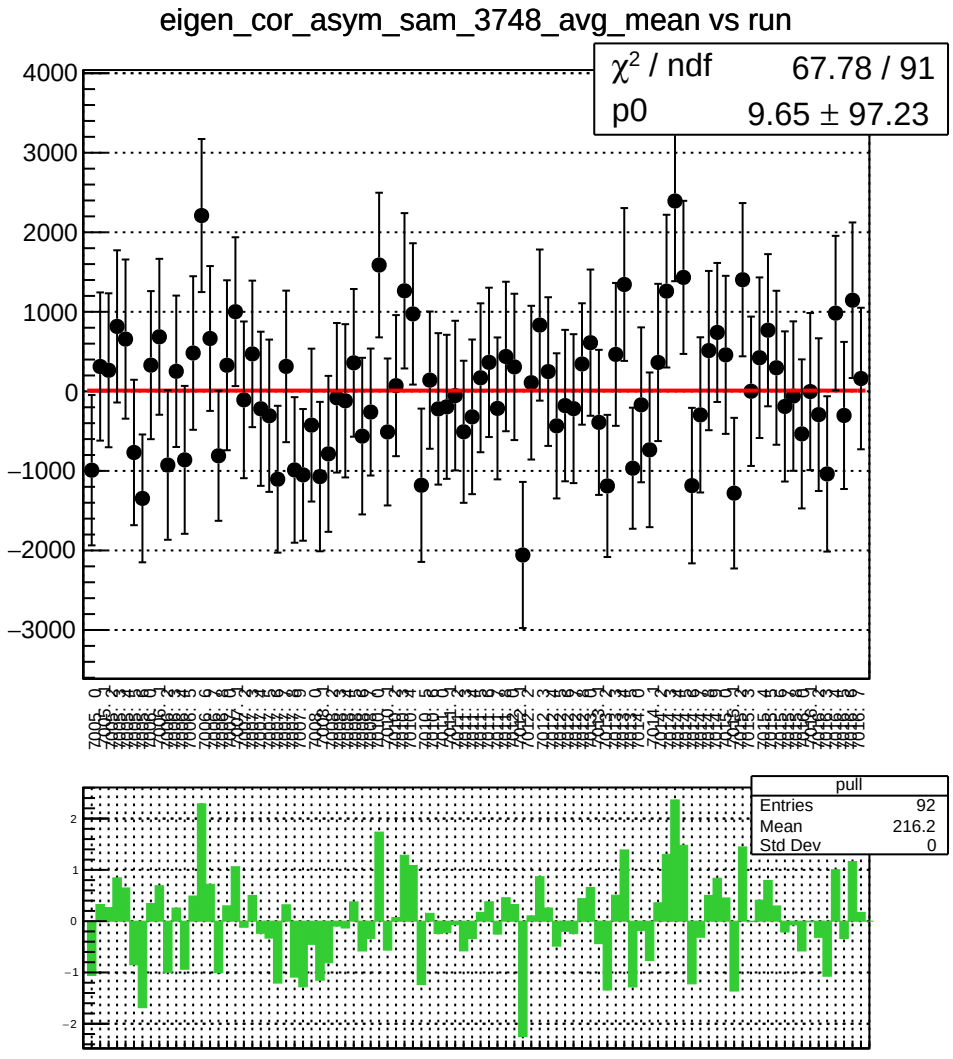

pull1D
Entries 92
Mean 0.01438
Std Dev 0.8582
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

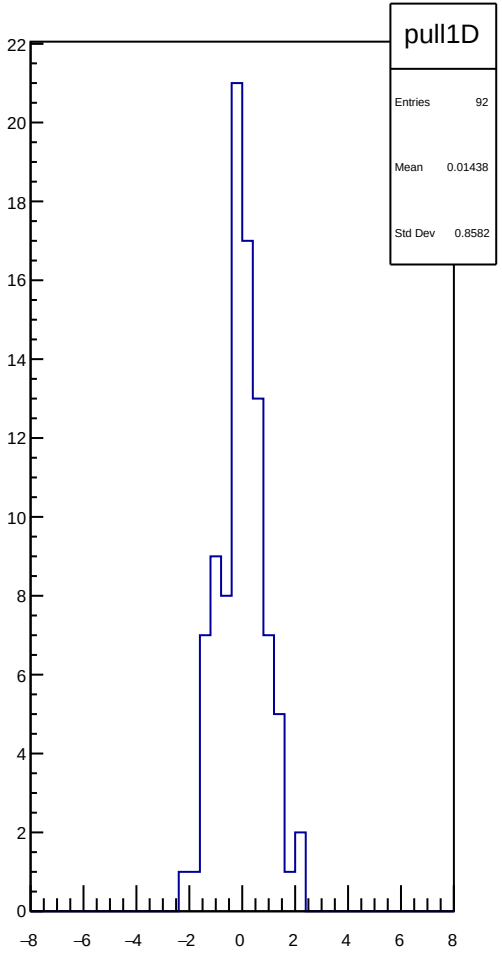

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1898 / 91
p0 89.99 ± 0.06875
102
100
98
96
94
92
90
88
86
84
82

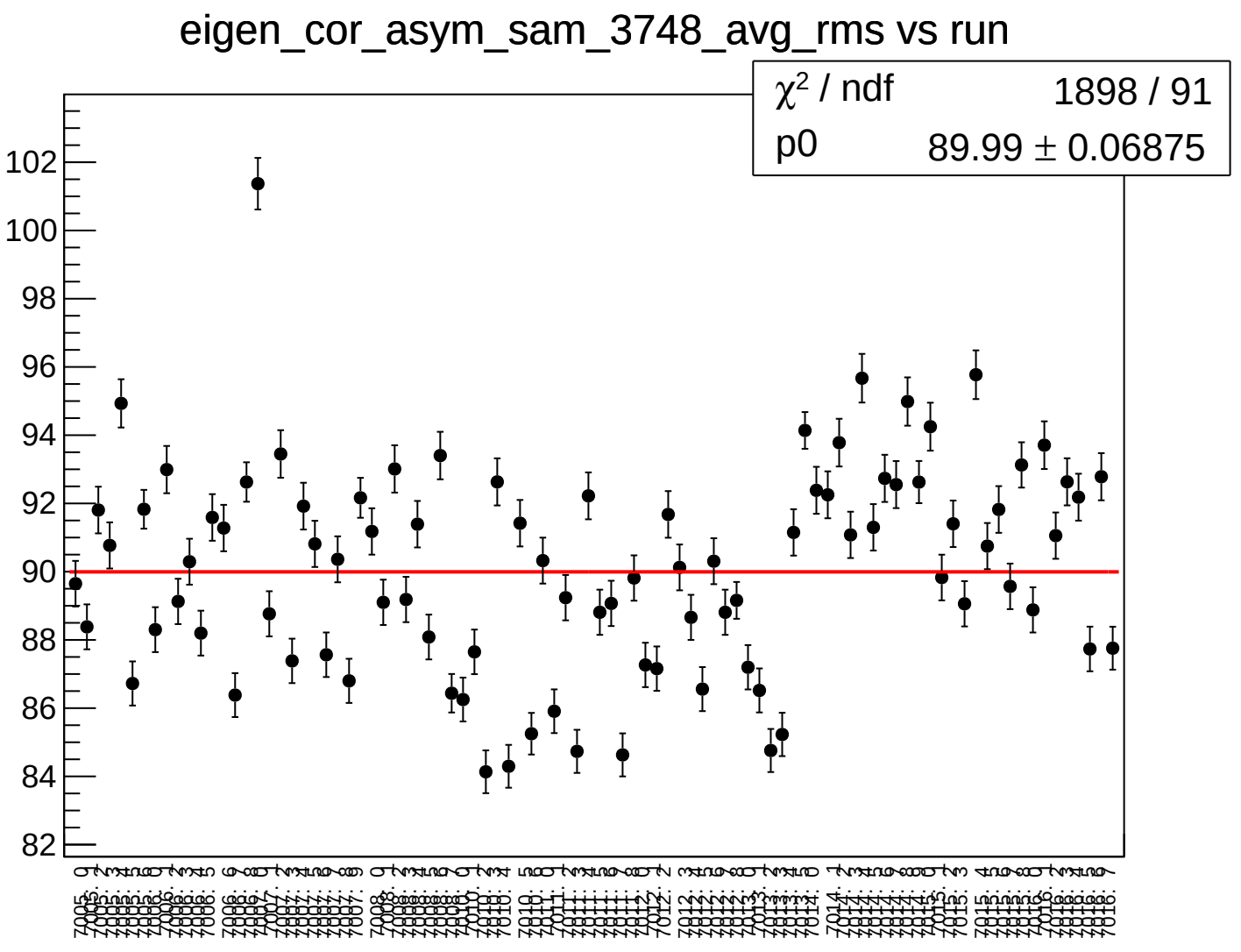

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 82.69 / 91
p0 −1043 ± 995.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 5.483
Std Dev 70.12
2
1
0
−1
−2

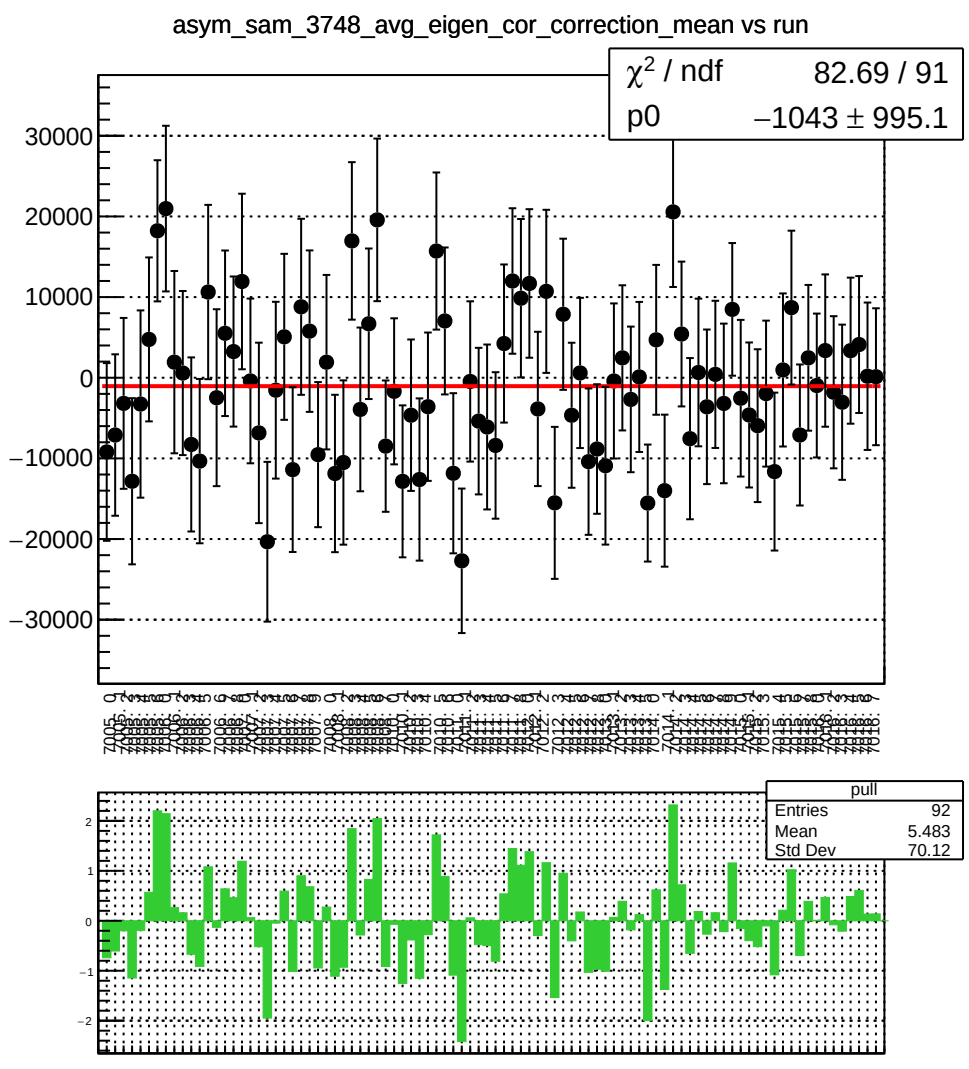

pull1D
Entries 92
Mean 0.007558
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

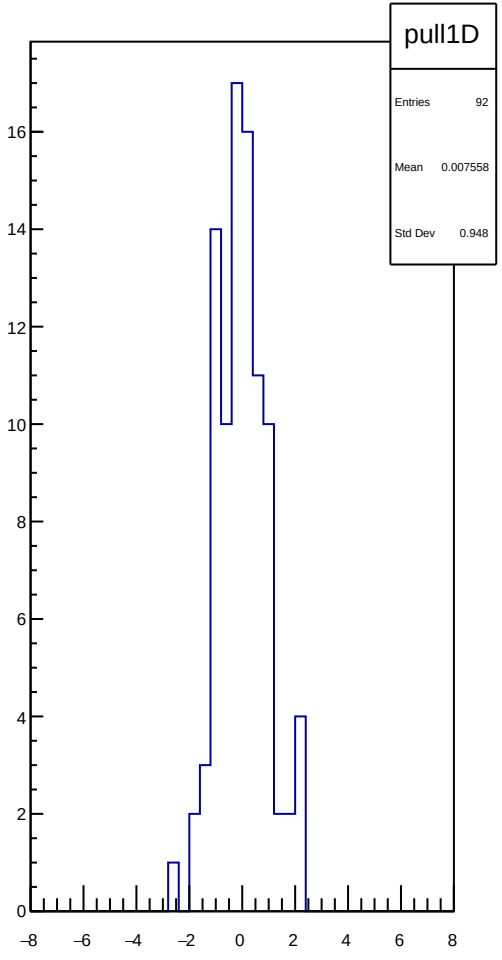

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 7513 / 91
p0 919.6 ± 0.7037
1100
1050
1000
950
900
850
800

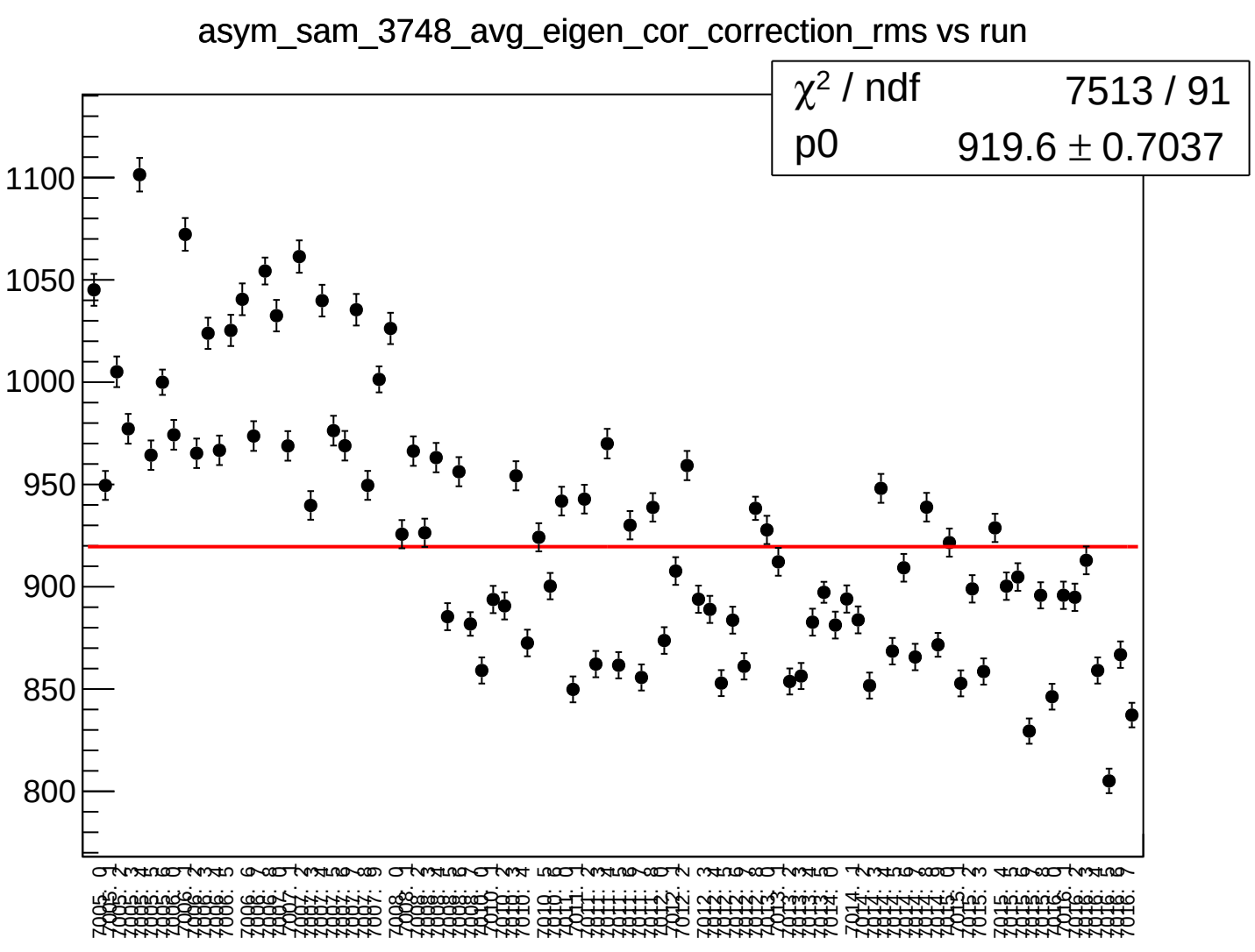

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 67.78 / 91
p0 9.65 ± 97.23
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 216.2
Std Dev 0
2
1
0
−1
−2

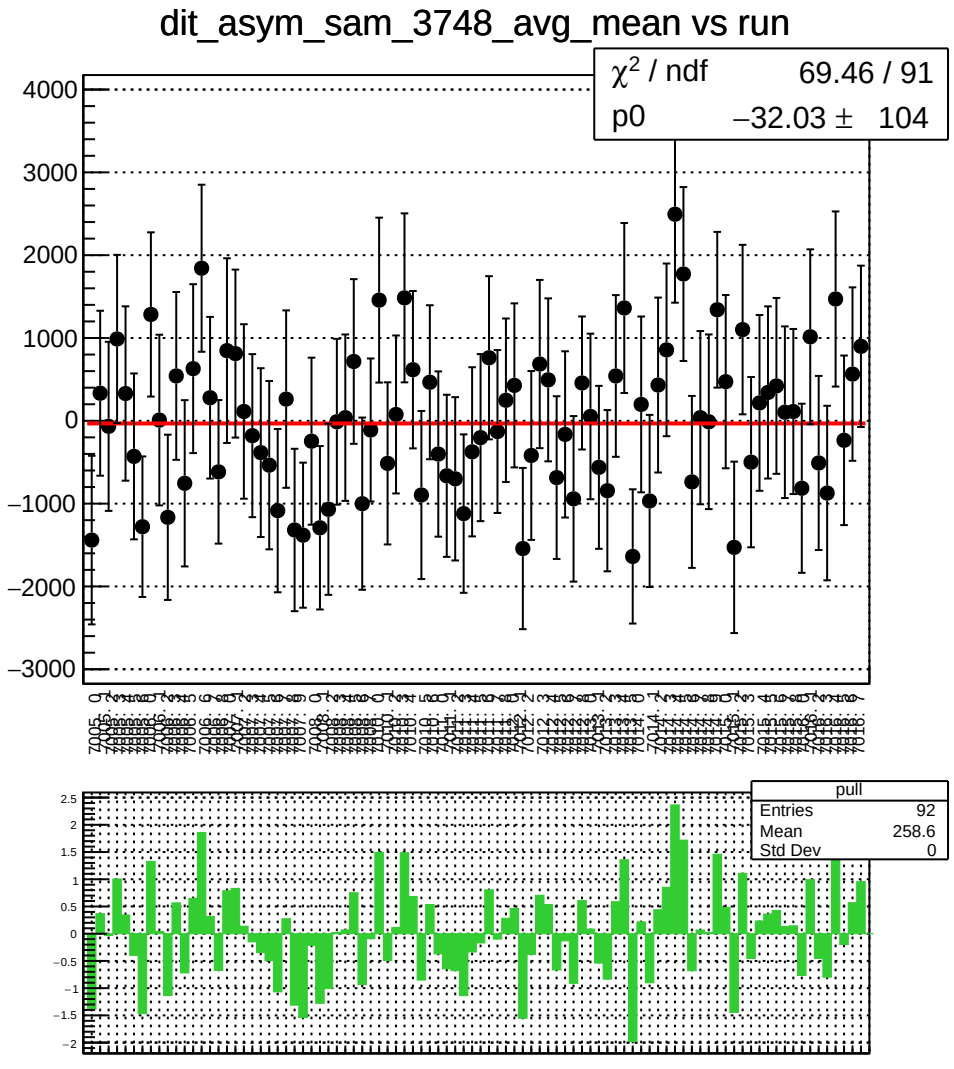

pull1D
Entries 92
Mean 0.01438
Std Dev 0.8582
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

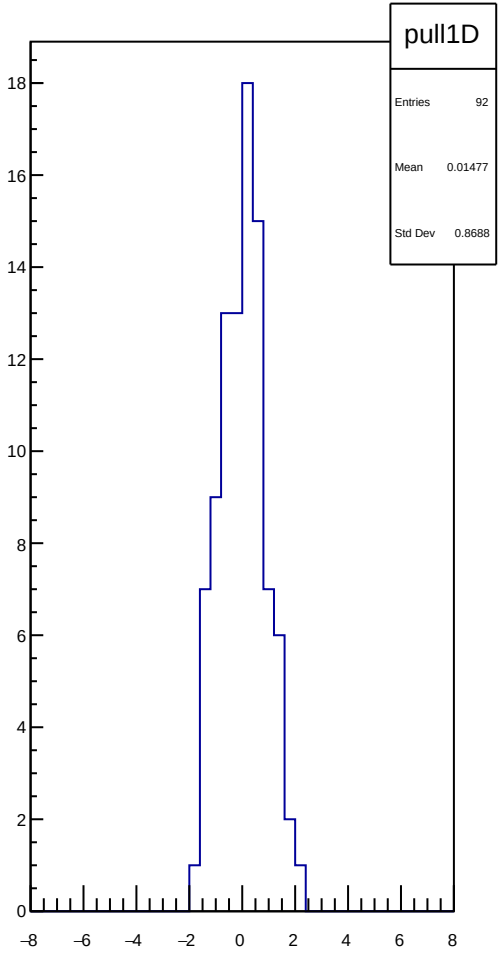

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1898 / 91
p0 89.99 ± 0.06875
102
100
98
96
94
92
90
88
86
84
82

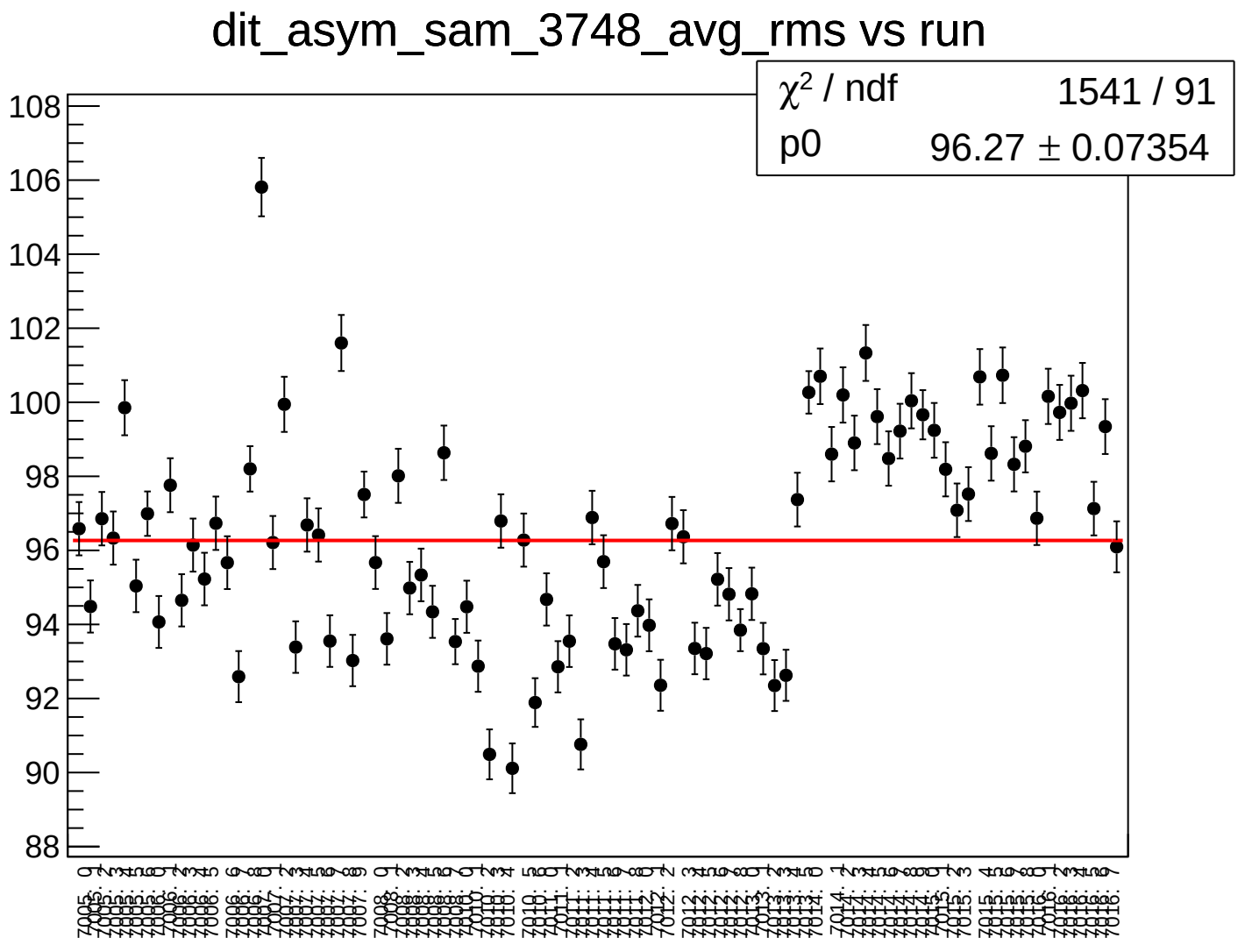

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.69 / 91
p0 −1043 ± 995.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 5.483
Std Dev 70.12
2
1
0
−1
−2

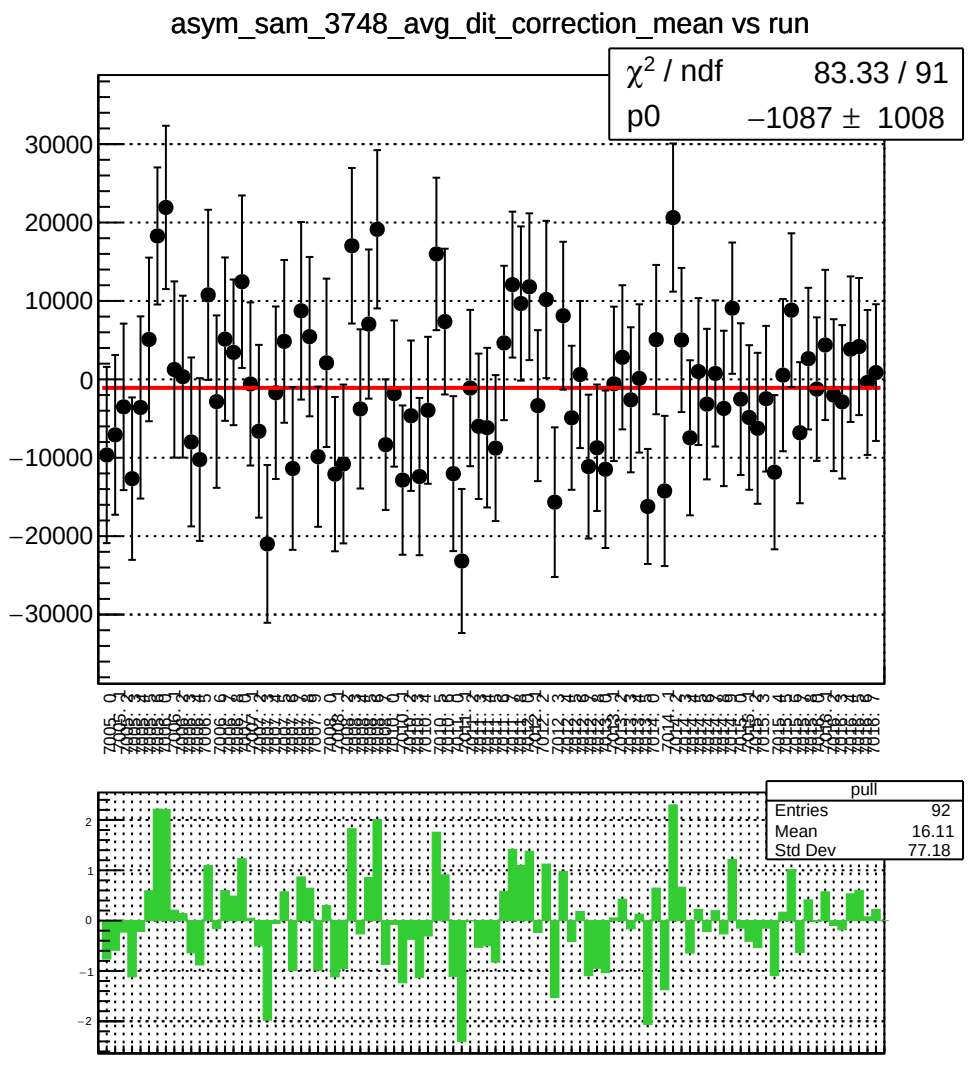

pull1D
Entries 92
Mean 0.007558
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

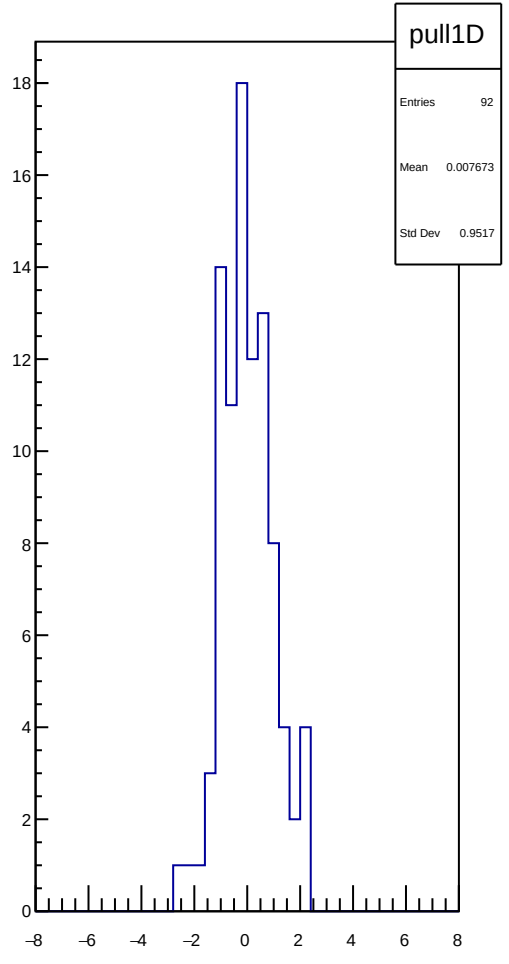

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 7513 / 91
p0 919.6 ± 0.7037
1100
1050
1000
950
900
850
800

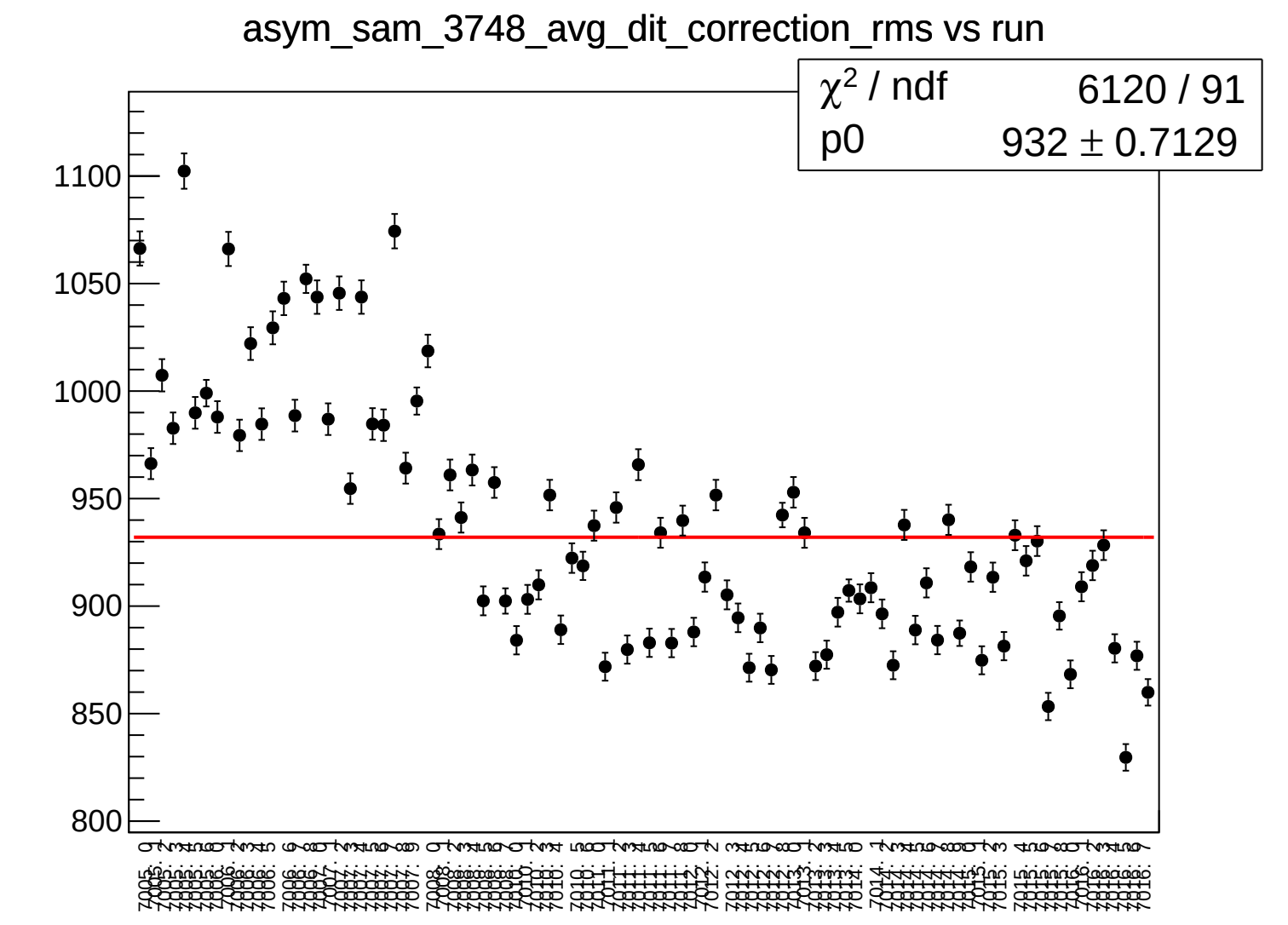

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 69.46 / 91
p0 −32.03 ± 104
pull
Entries 92
Mean 258.6
Std Dev 0

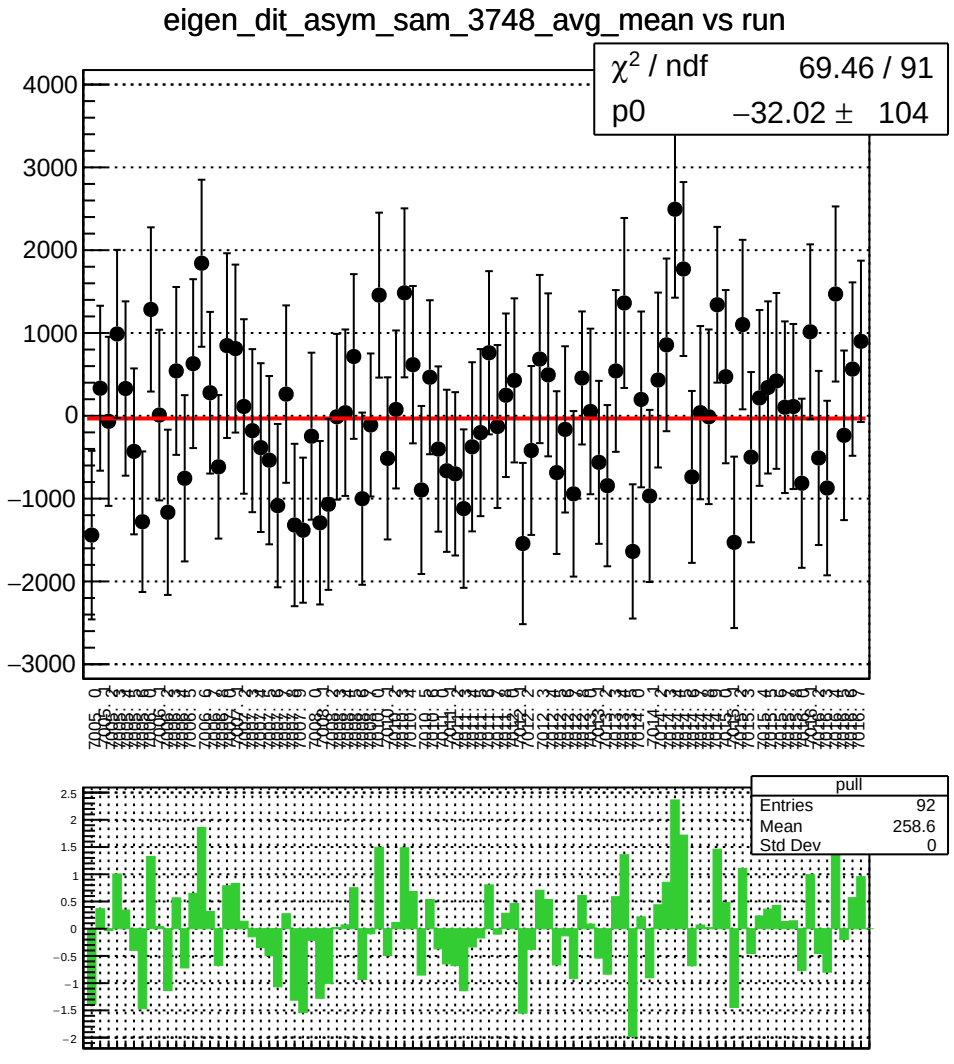

pull1D
Entries 92
Mean 0.01477
Std Dev 0.8688

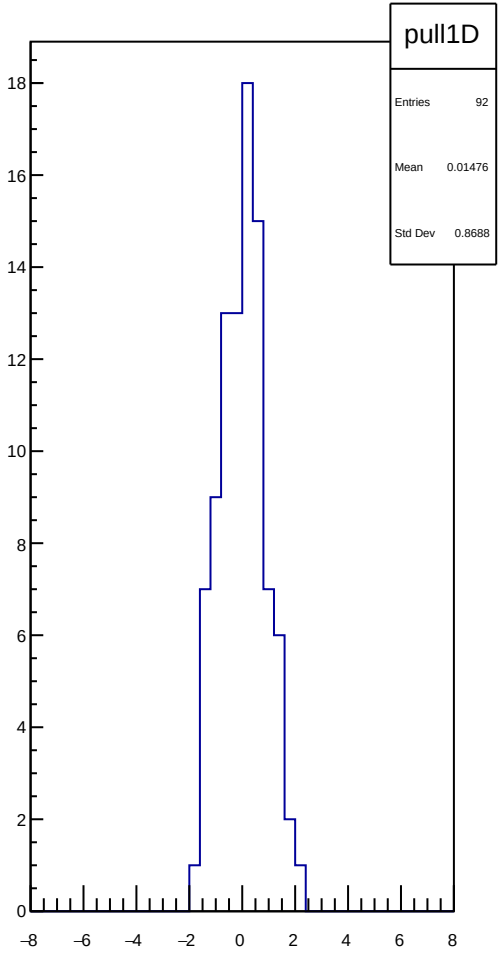

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1541 / 91
p0 96.27 ± 0.07354
108
106
104
102
100
98
96
94
92
90
88

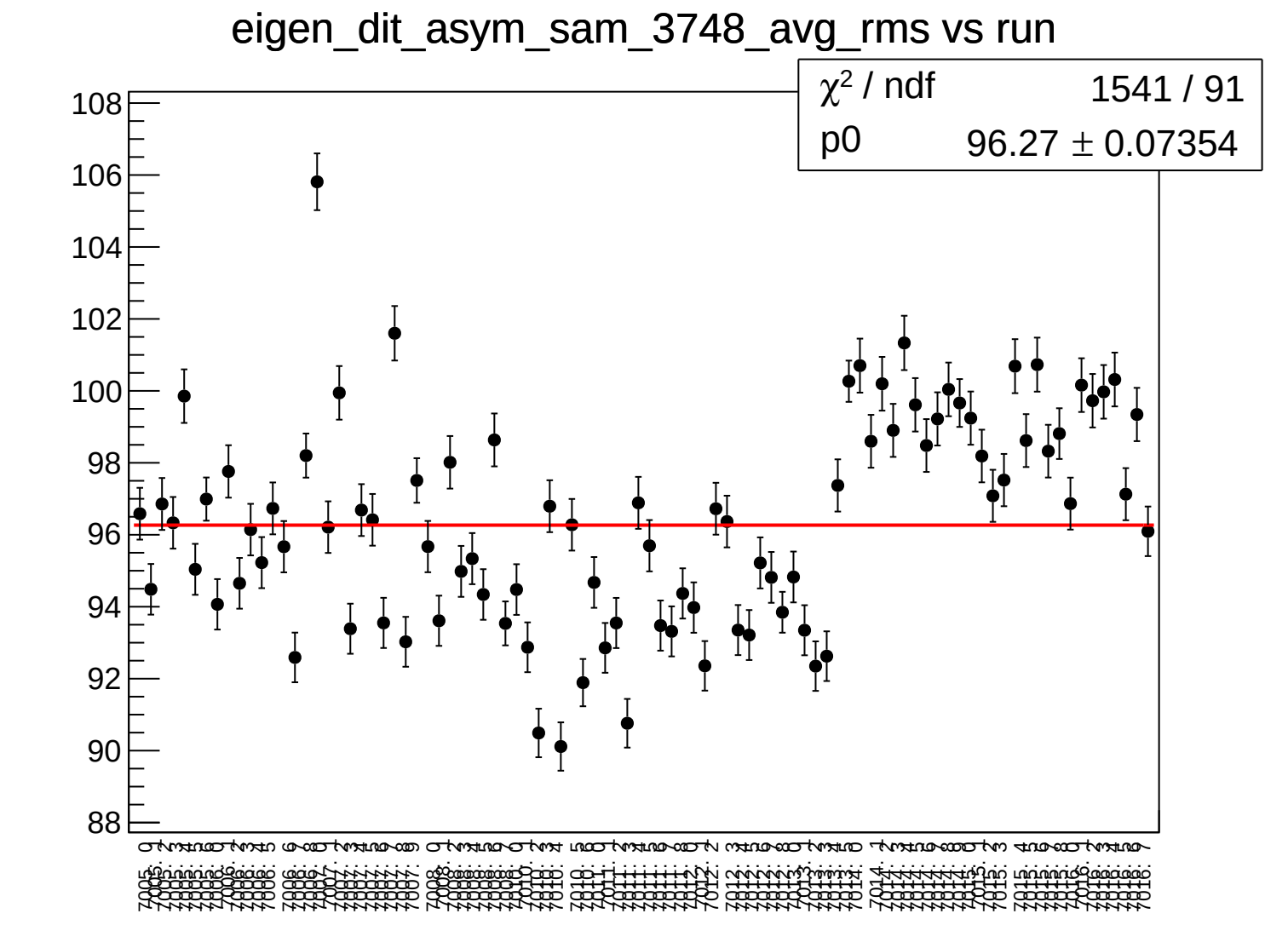

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 83.33 / 91
p0 −1087 ± 1008
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 16.11
Std Dev 77.18
2
1
0
−1
−2

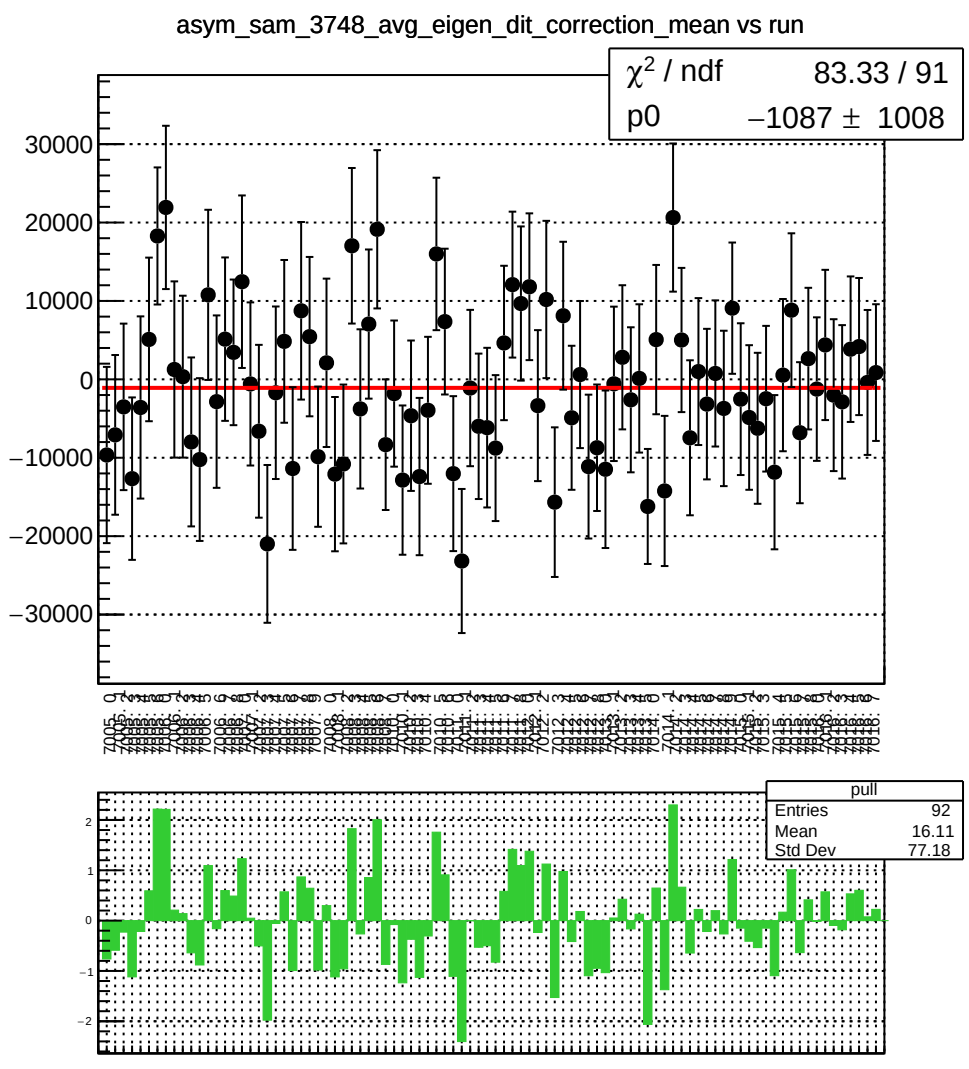

pull1D
Entries 92
Mean 0.007673
Std Dev 0.9517
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

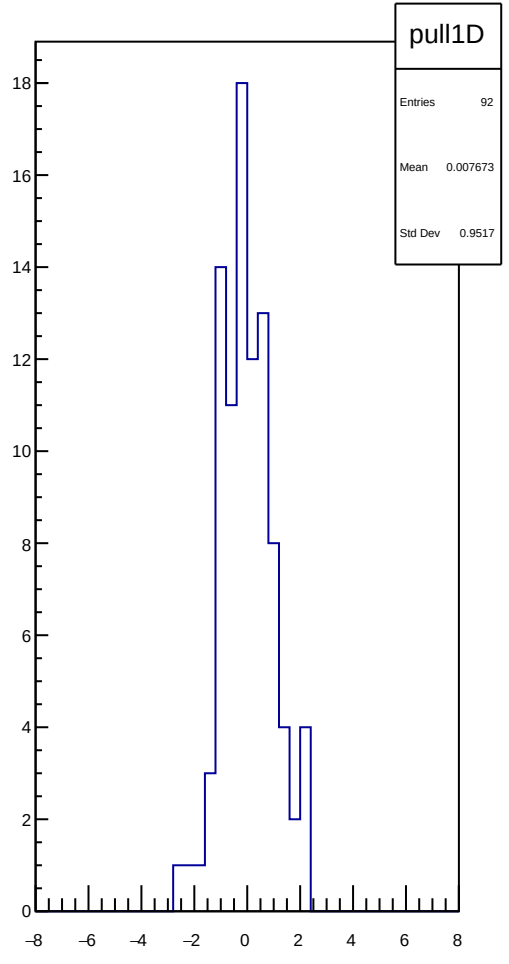

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 6120 / 91
p0 932 ± 0.7129
1100
1050
1000
950
900
850
800

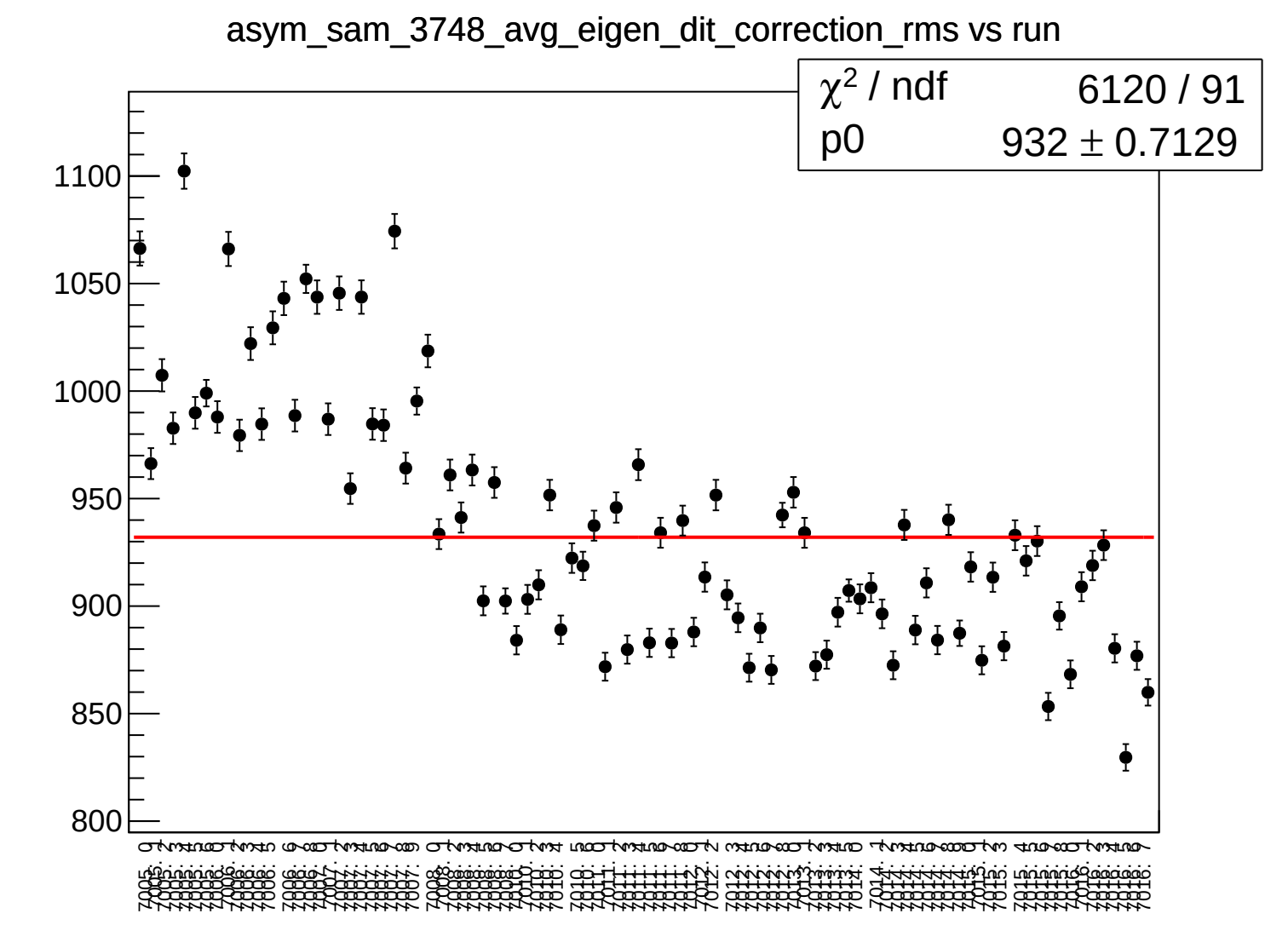

eigen_dit_asym_sam_3748_avg_mean vs run
$\chi^2$ / ndf 69.46 / 91
p0 −32.02 ± 104
pull
Entries 92
Mean 258.6
Std Dev 0

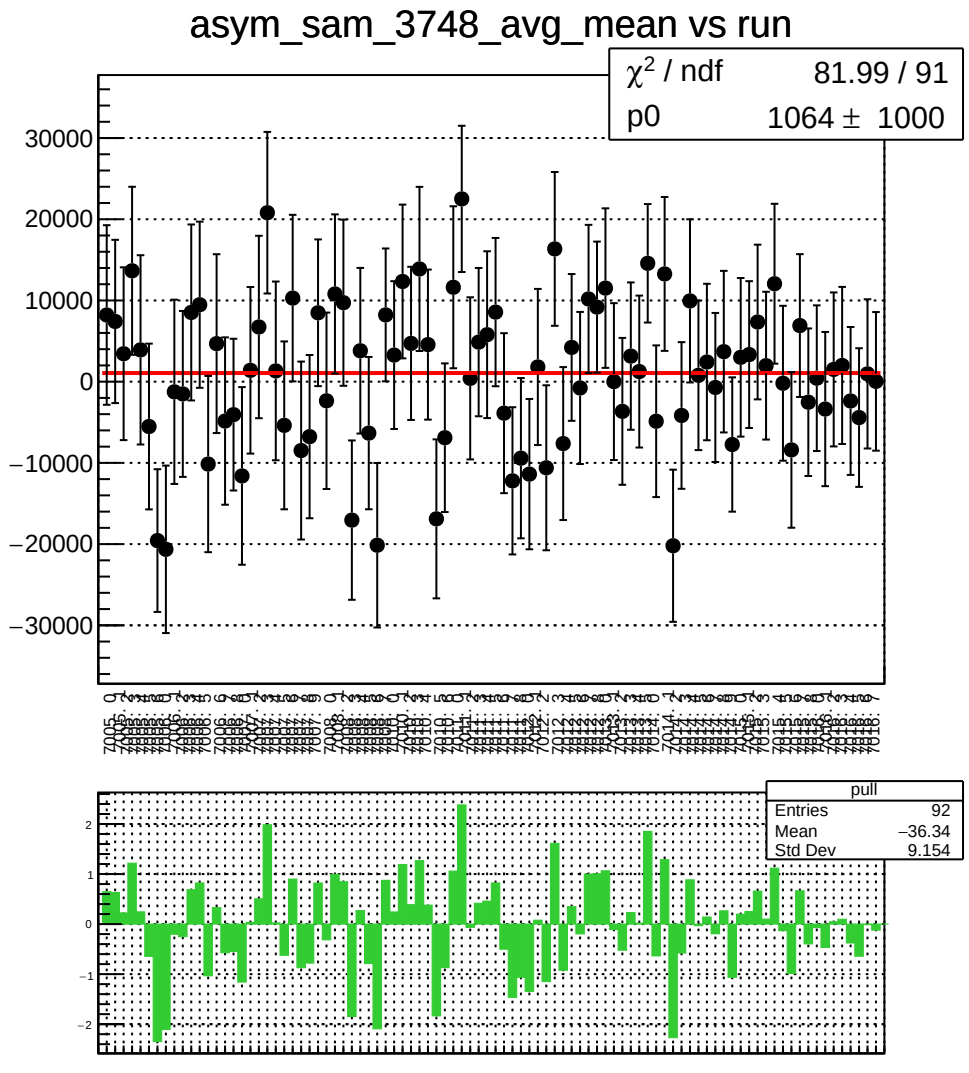

pull1D
Entries 92
Mean 0.01476
Std Dev 0.8688

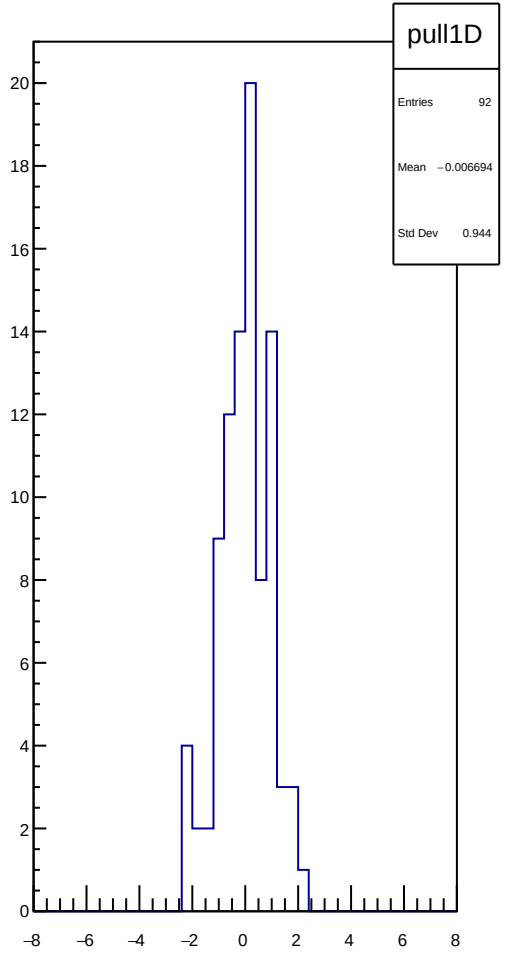

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1541 / 91
p0 96.27 ± 0.07354
108
106
104
102
100
98
96
94
92
90
88

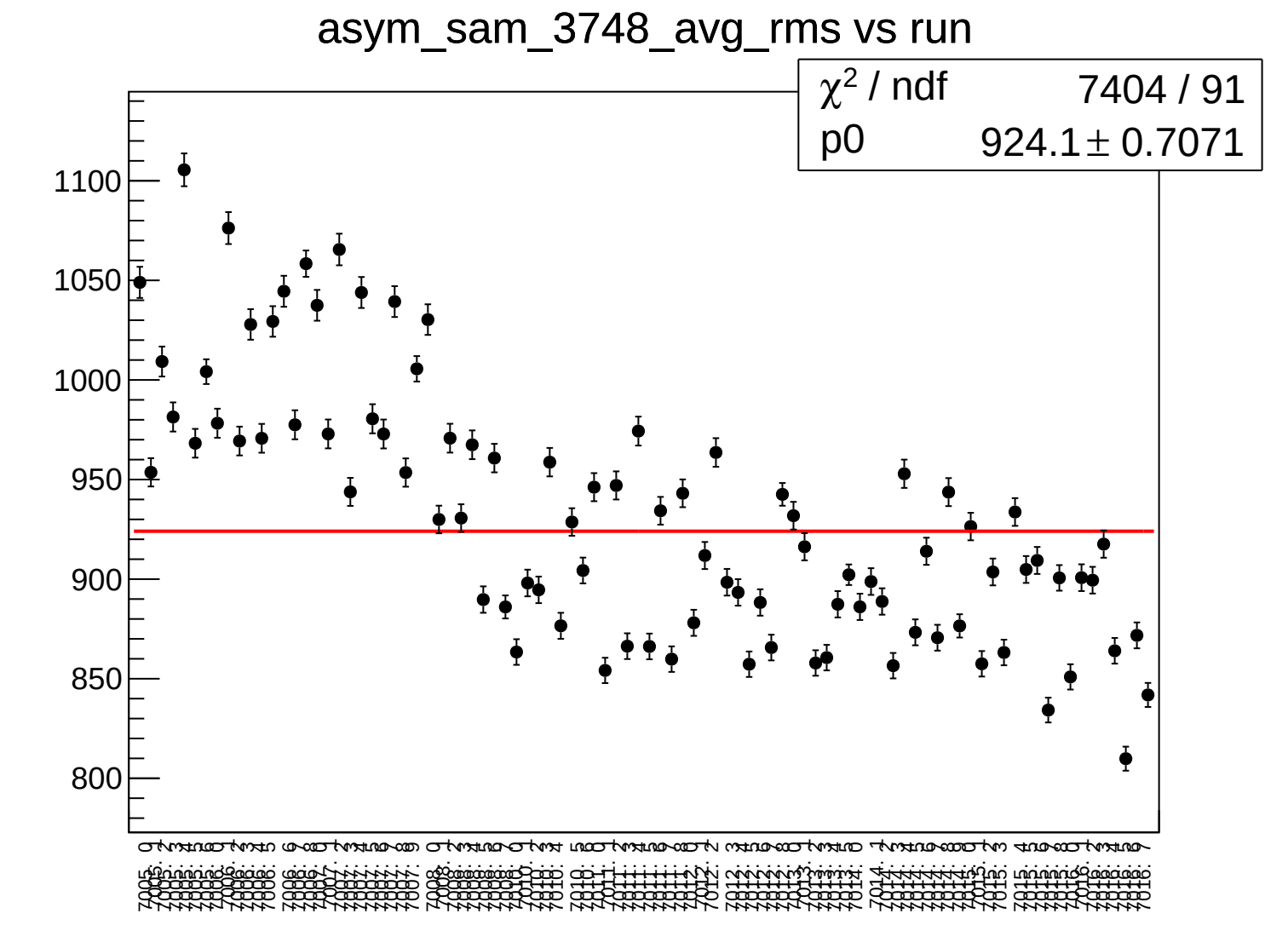

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.33 / 91
p0 −1087 ± 1008
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 16.11
Std Dev 77.18
2
1
0
−1
−2

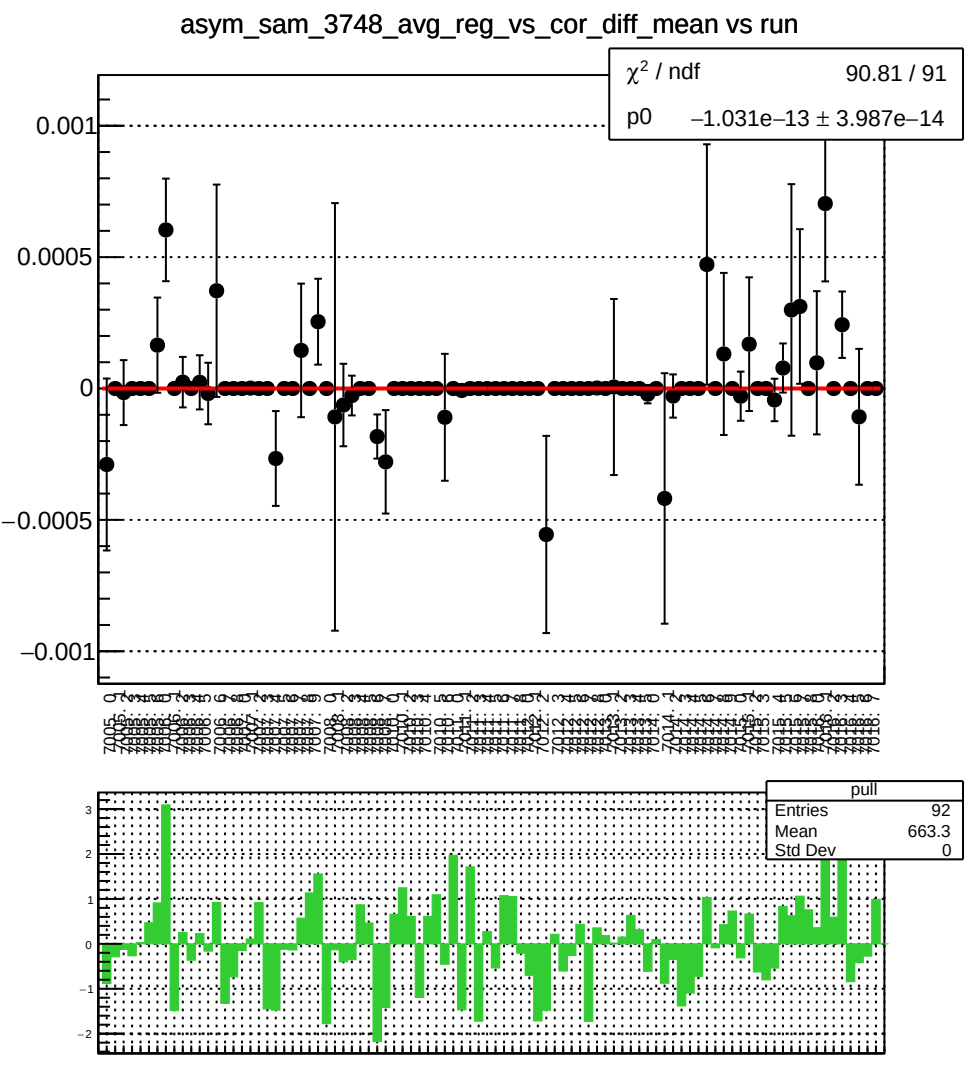

pull1D
Entries 92
Mean 0.007673
Std Dev 0.9517
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

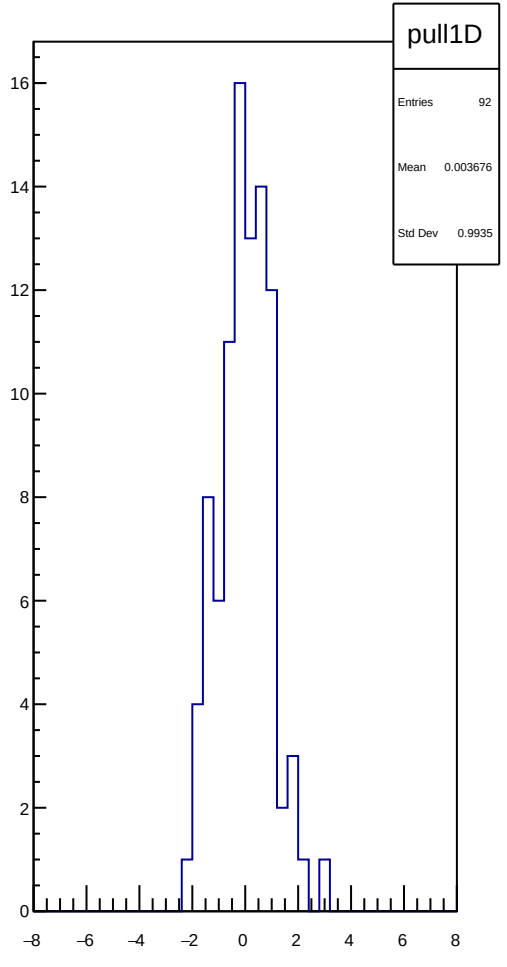

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 6120 / 91
p0 932 ± 0.7129
1100
1050
1000
950
900
850
800

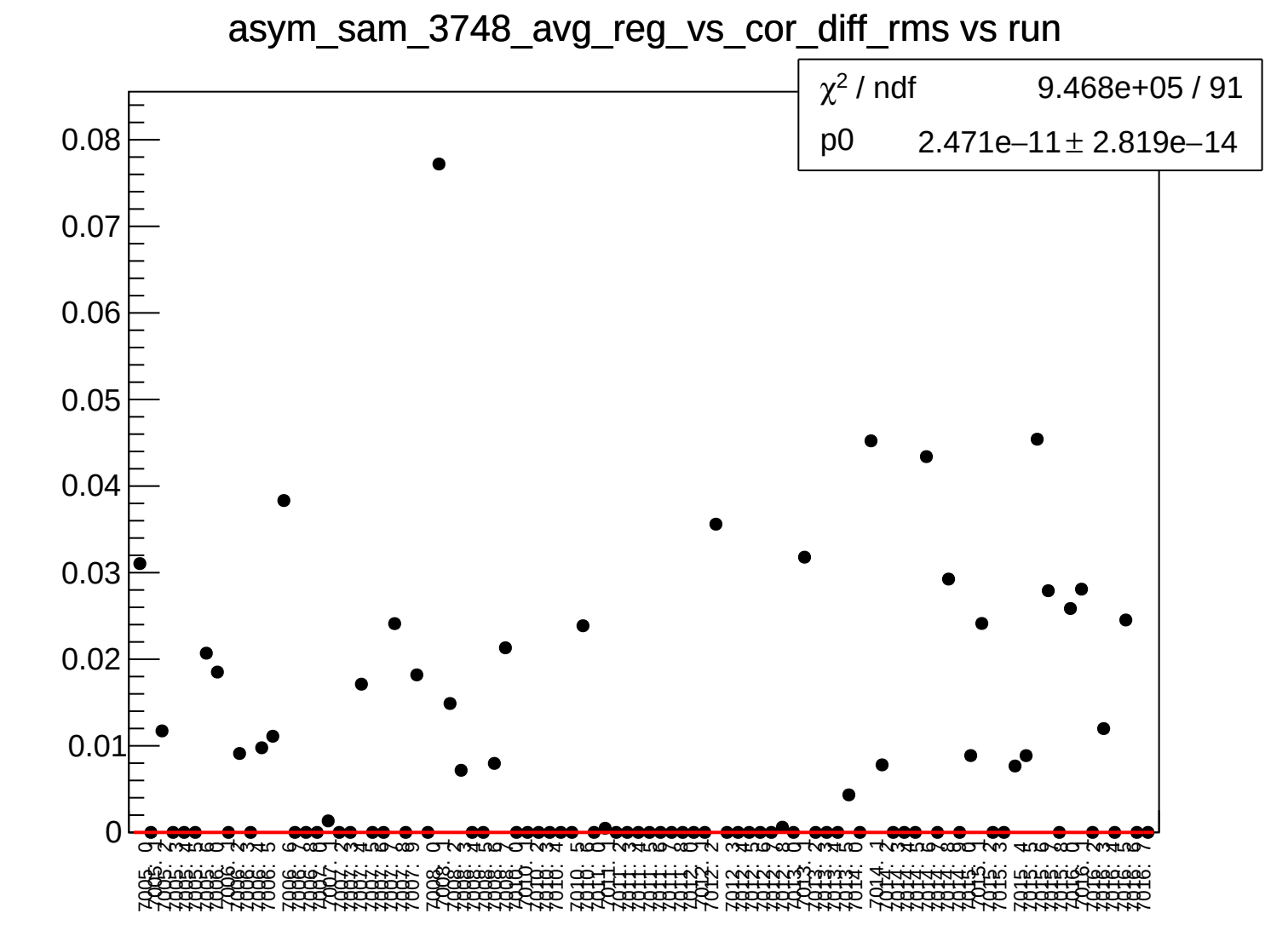

asym_sam_3748_avg_mean vs run
χ² / ndf 81.99 / 91
p0 1064 ± 1000
pull
Entries 92
Mean −36.34
Std Dev 9.154

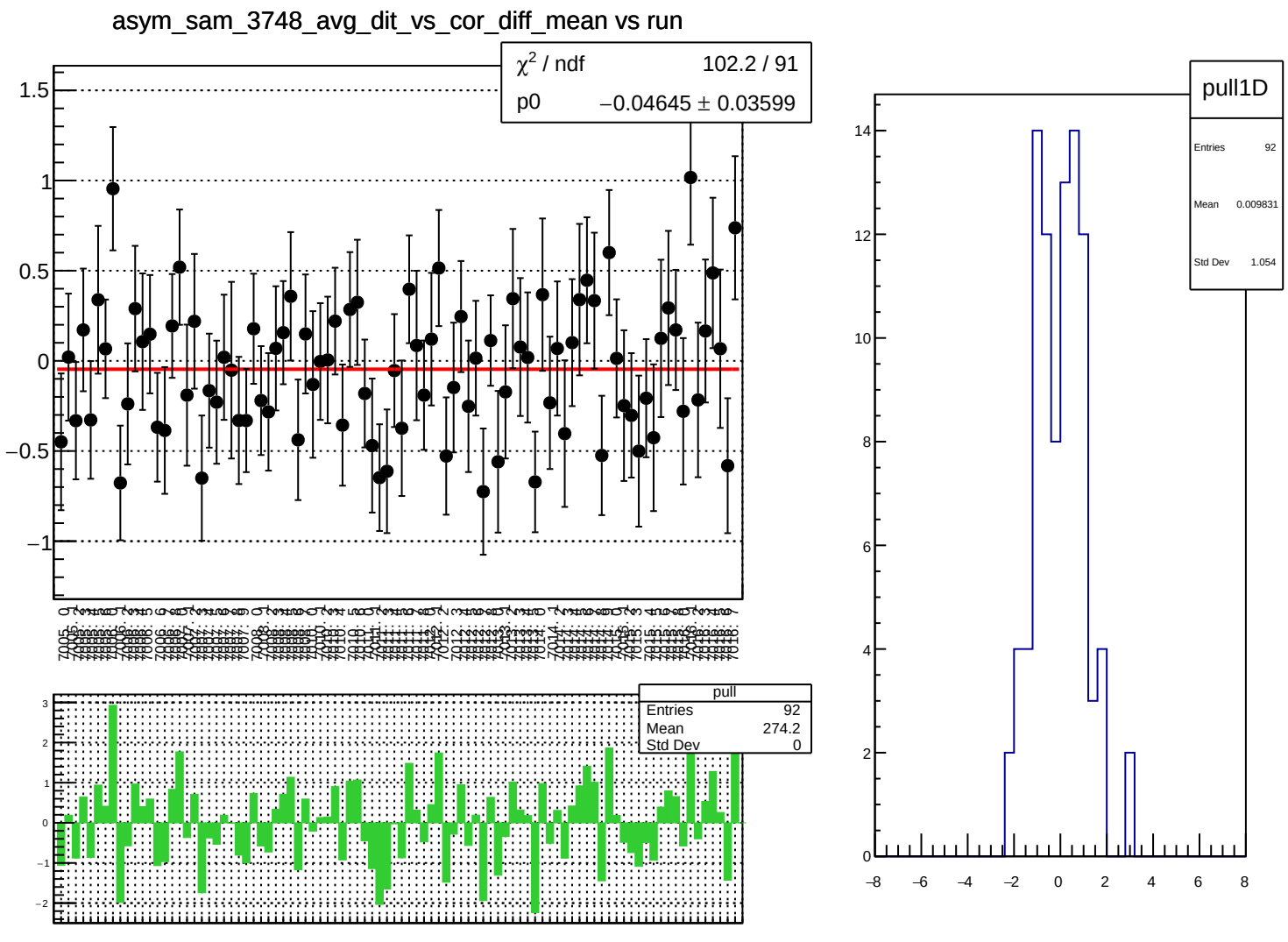

pull1D
Entries 92
Mean −0.006694
Std Dev 0.944

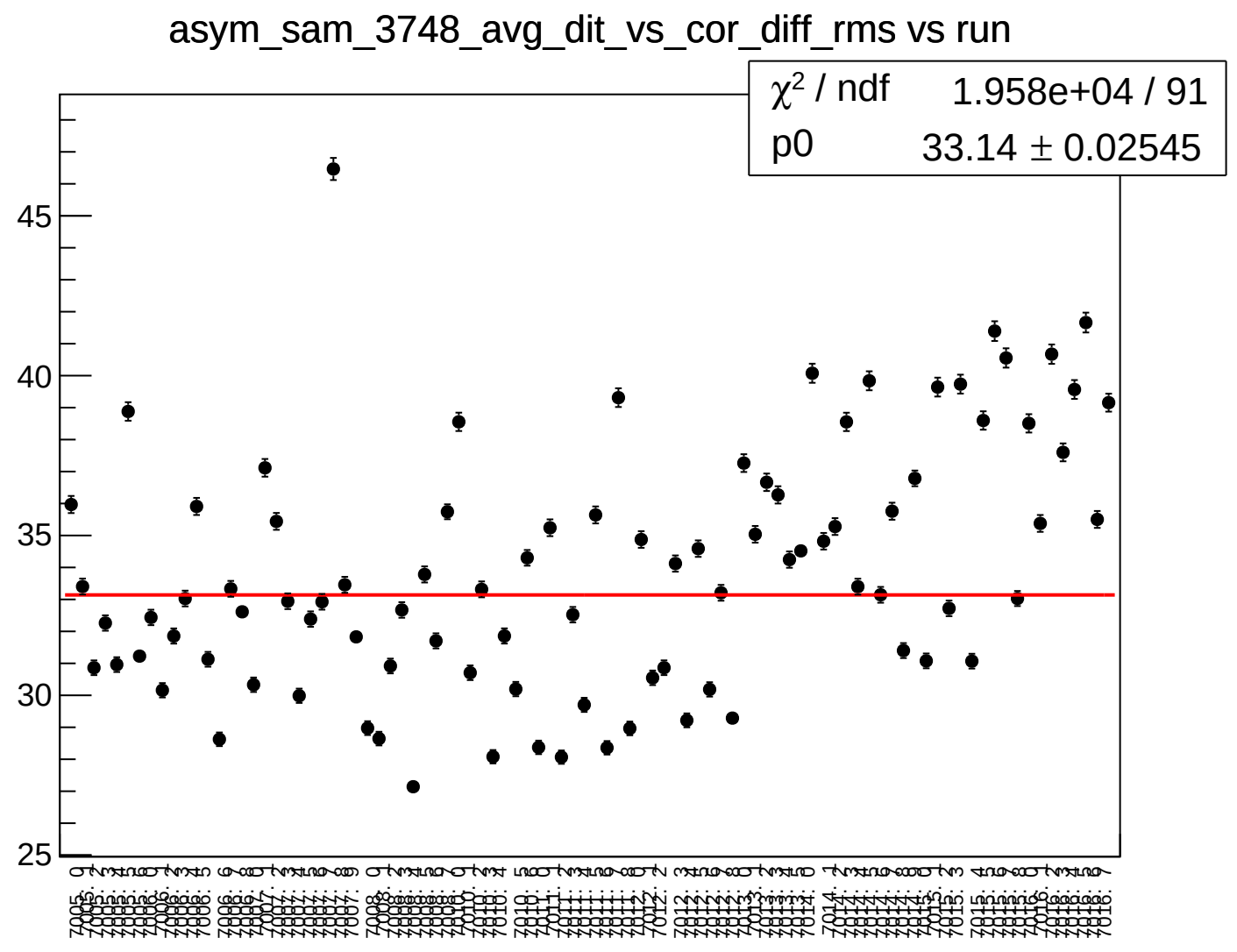

asym_sam_3748_avg_rms vs run
χ² / ndf 7404 / 91
p0 924.1 ± 0.7071
1100
1050
1000
950
900
850
800

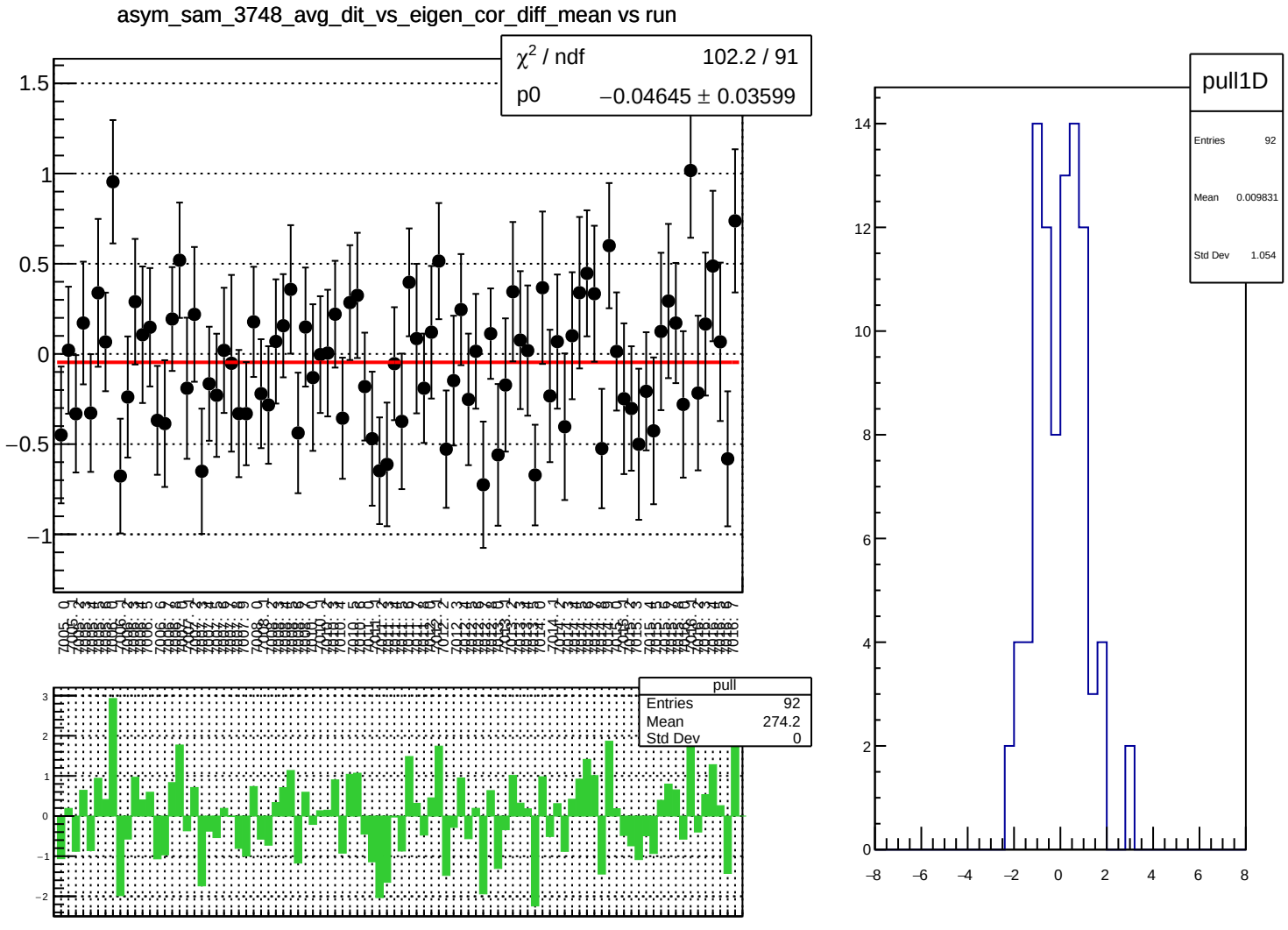

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.81 / 91
p0 −1.031e−13 ± 3.987e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 92
Mean 663.3
Std Dev 0
3
2
1
0
−1
−2

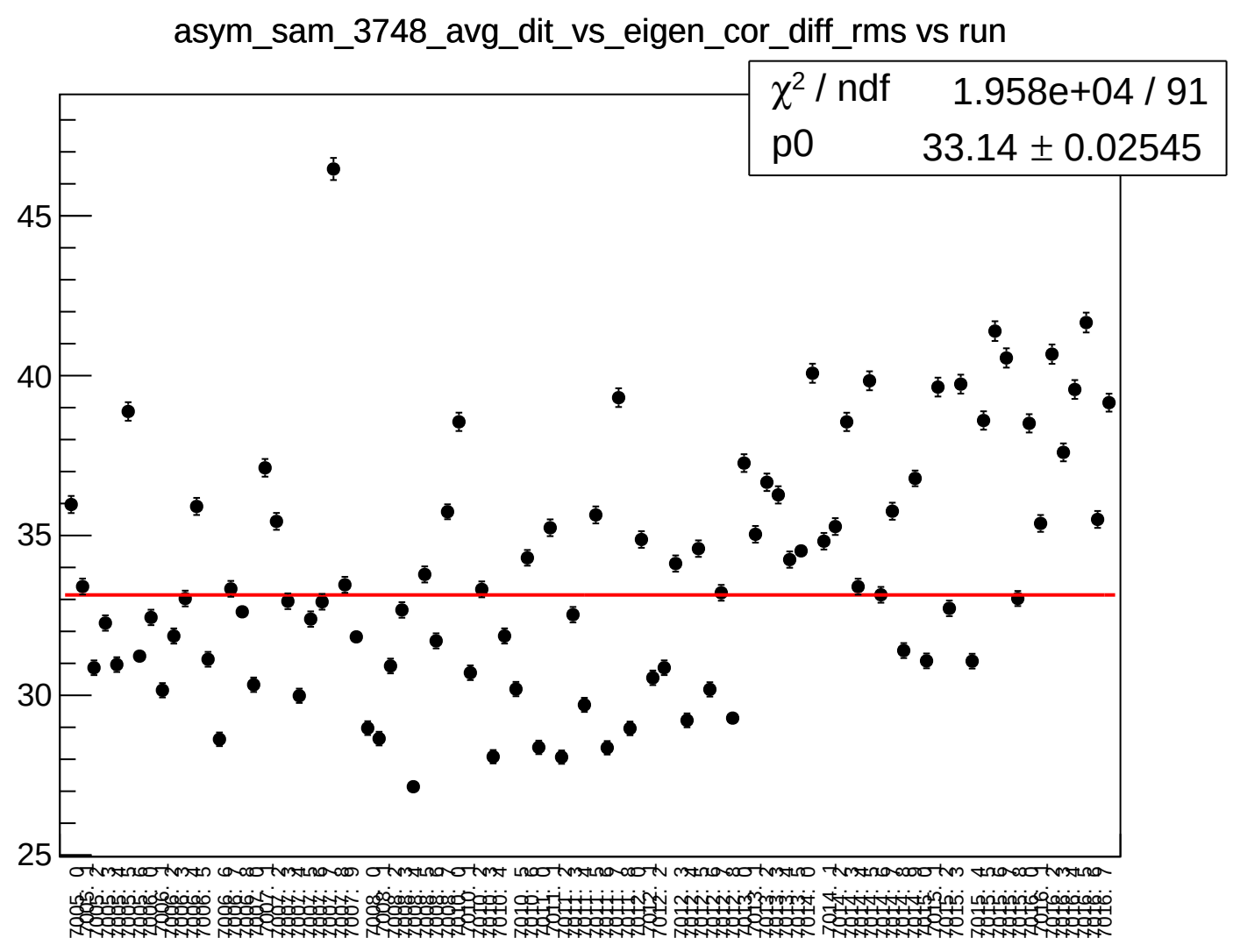

pull1D
Entries 92
Mean 0.003676
Std Dev 0.9935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

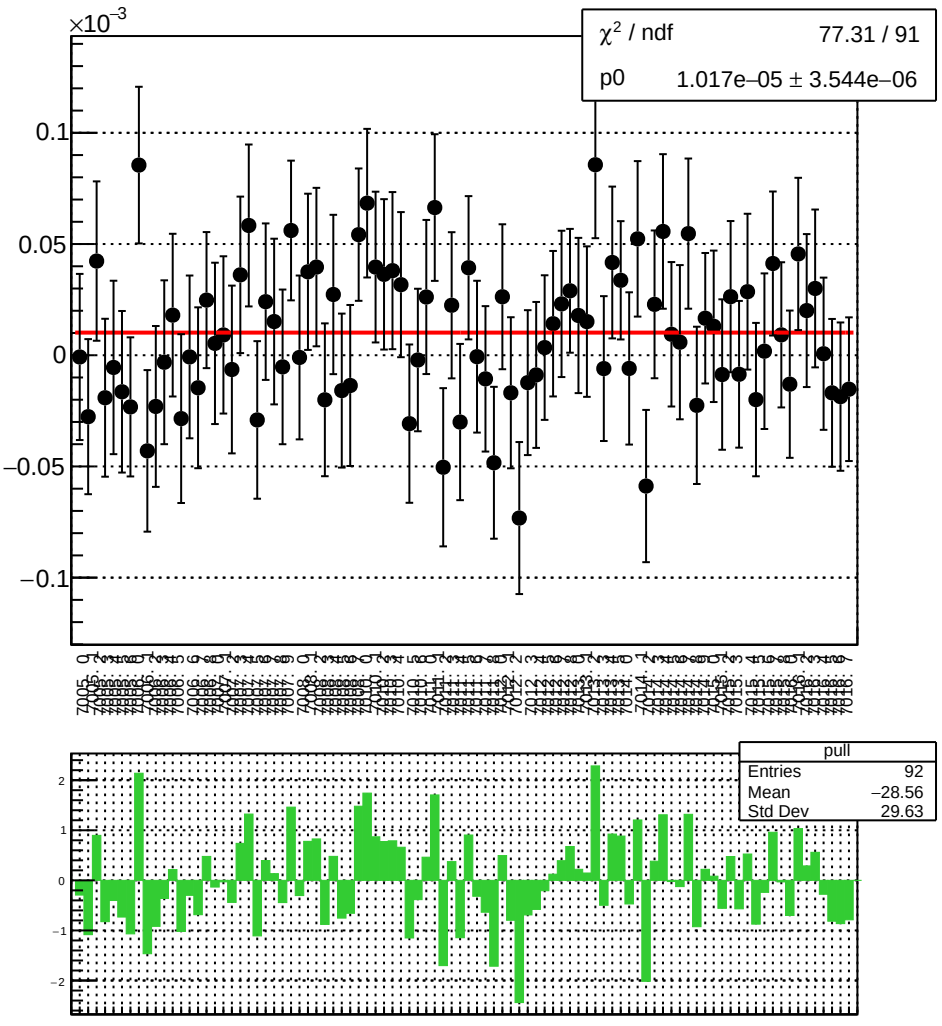

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.468e+05 / 91
p0 2.471e−11 ± 2.819e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

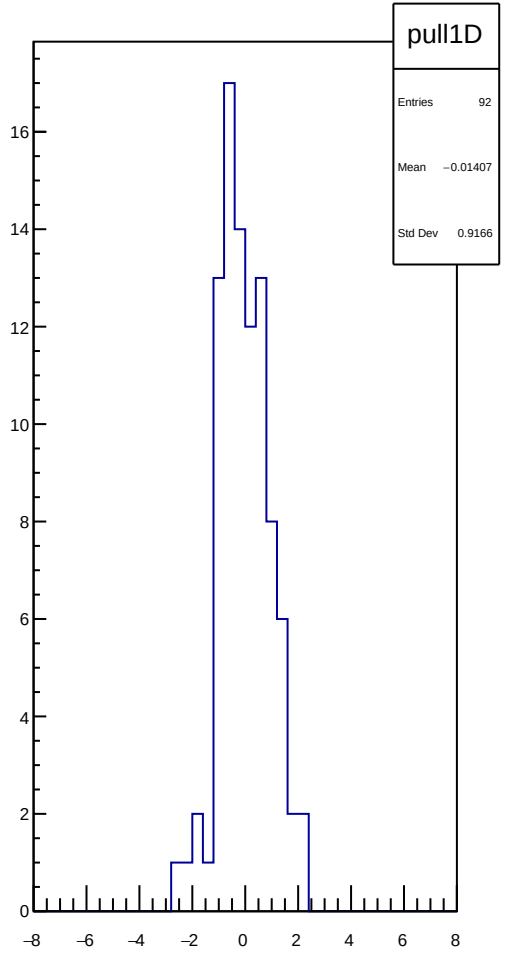

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 91
p0 −0.04645 ± 0.03599
pull
Entries 92
Mean 274.2
Std Dev 0
pull1D
Entries 92
Mean 0.009831
Std Dev 1.054

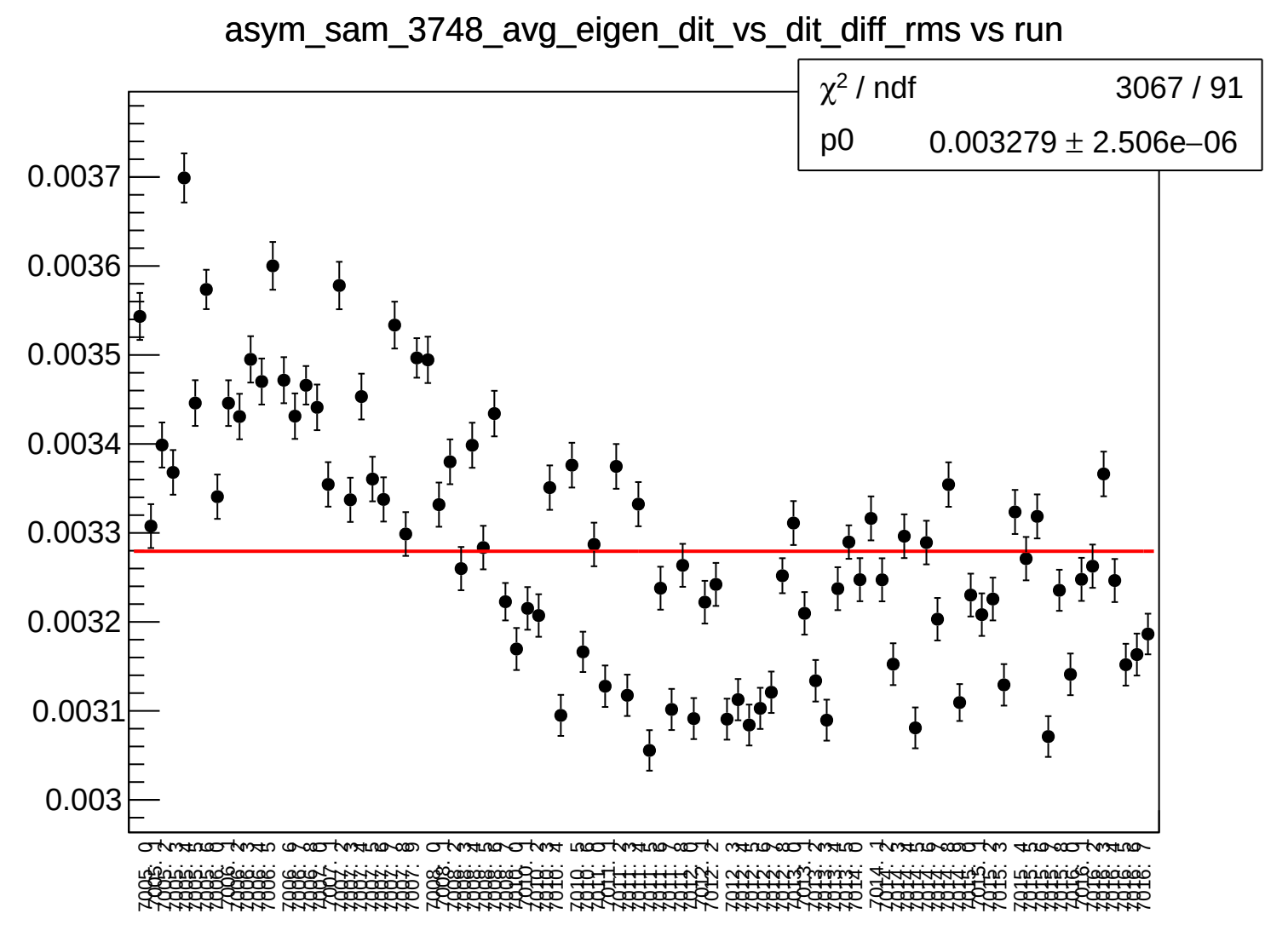

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.958e+04 / 91
p0 33.14 ± 0.02545
45
40
35
30
25

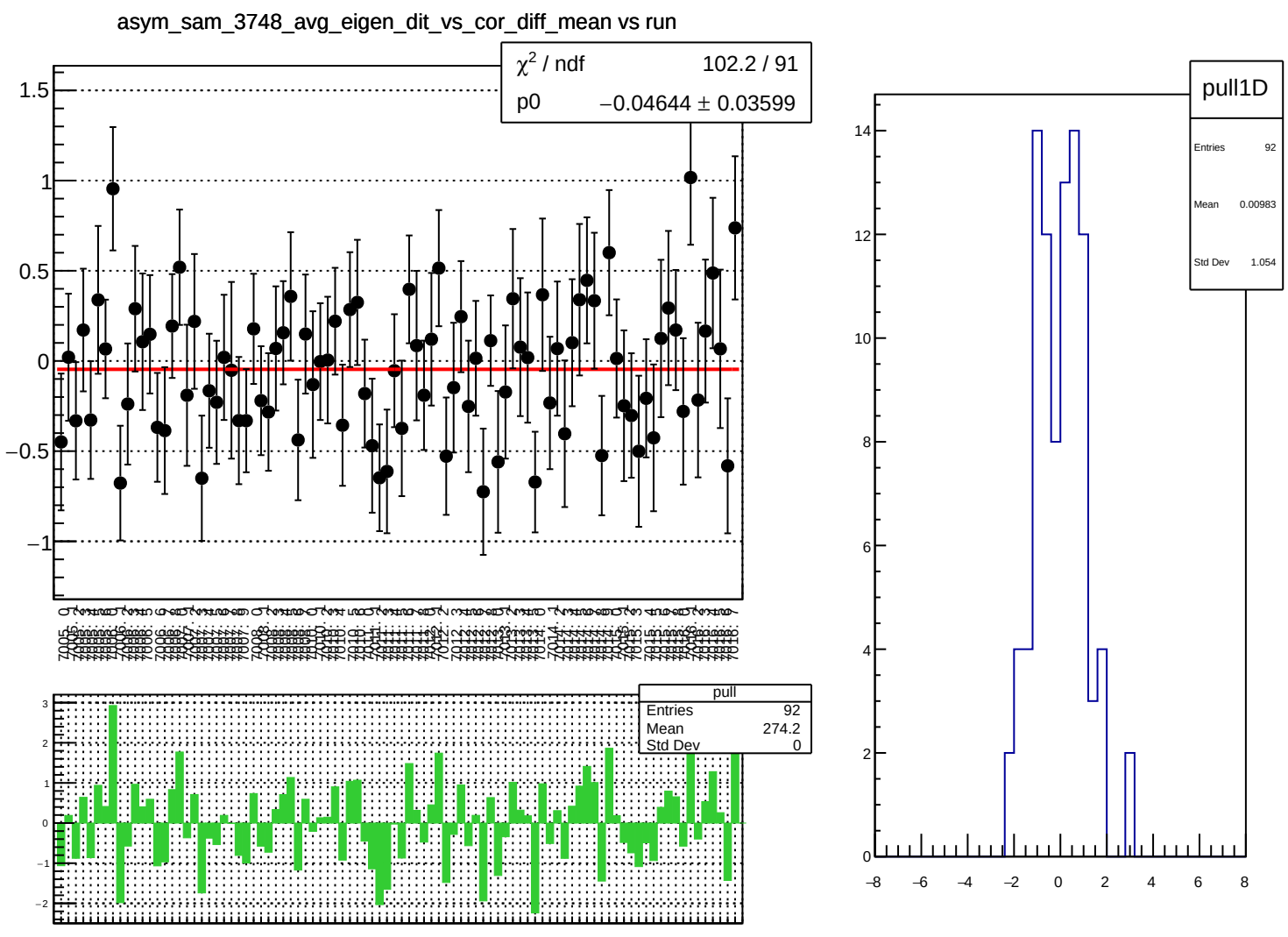

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 91
p0 −0.04645 ± 0.03599
pull
Entries 92
Mean 274.2
Std Dev 0
pull1D
Entries 92
Mean 0.009831
Std Dev 1.054

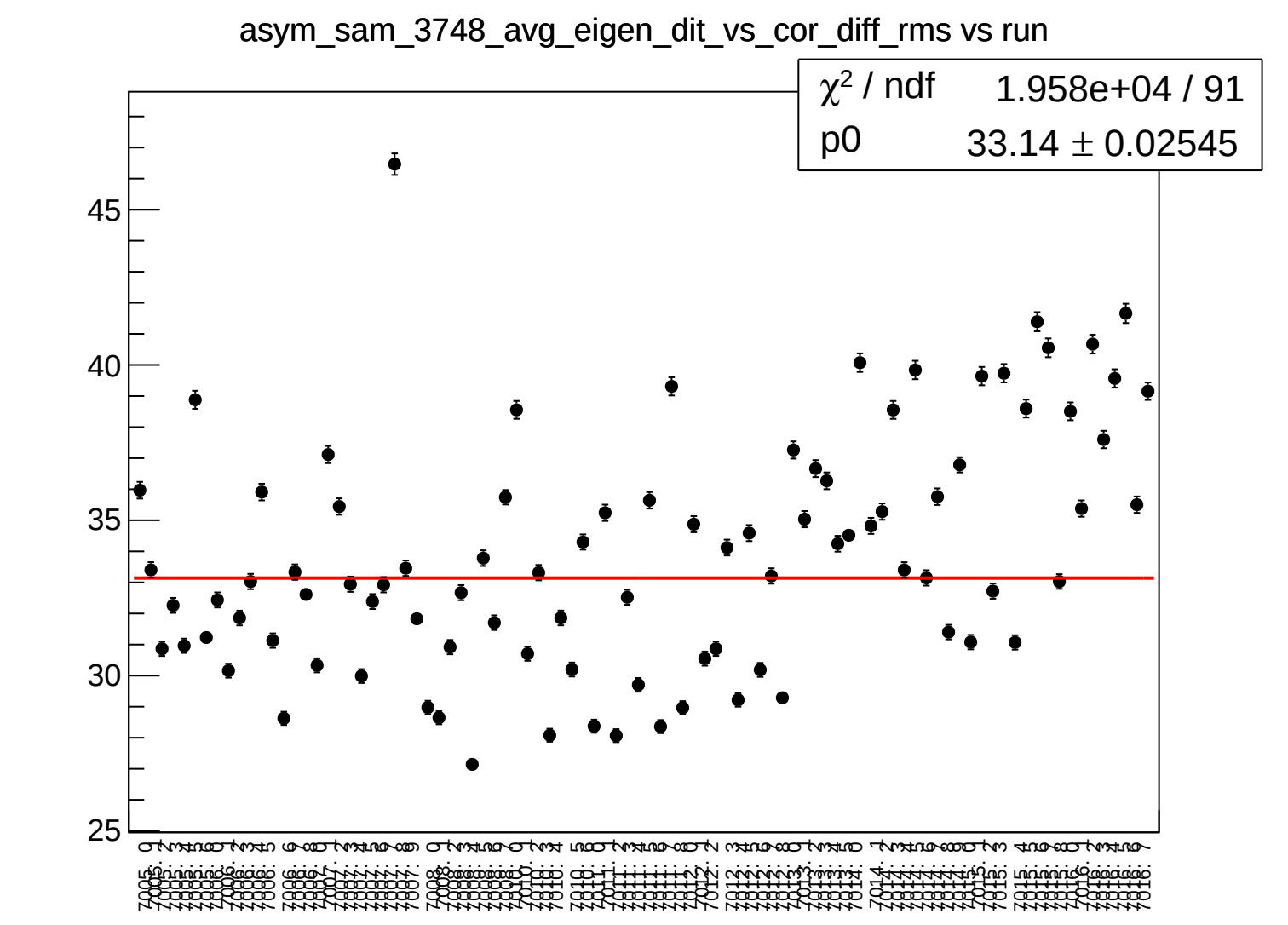

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.958e+04 / 91
p0 33.14 ± 0.02545
45
40
35
30
25

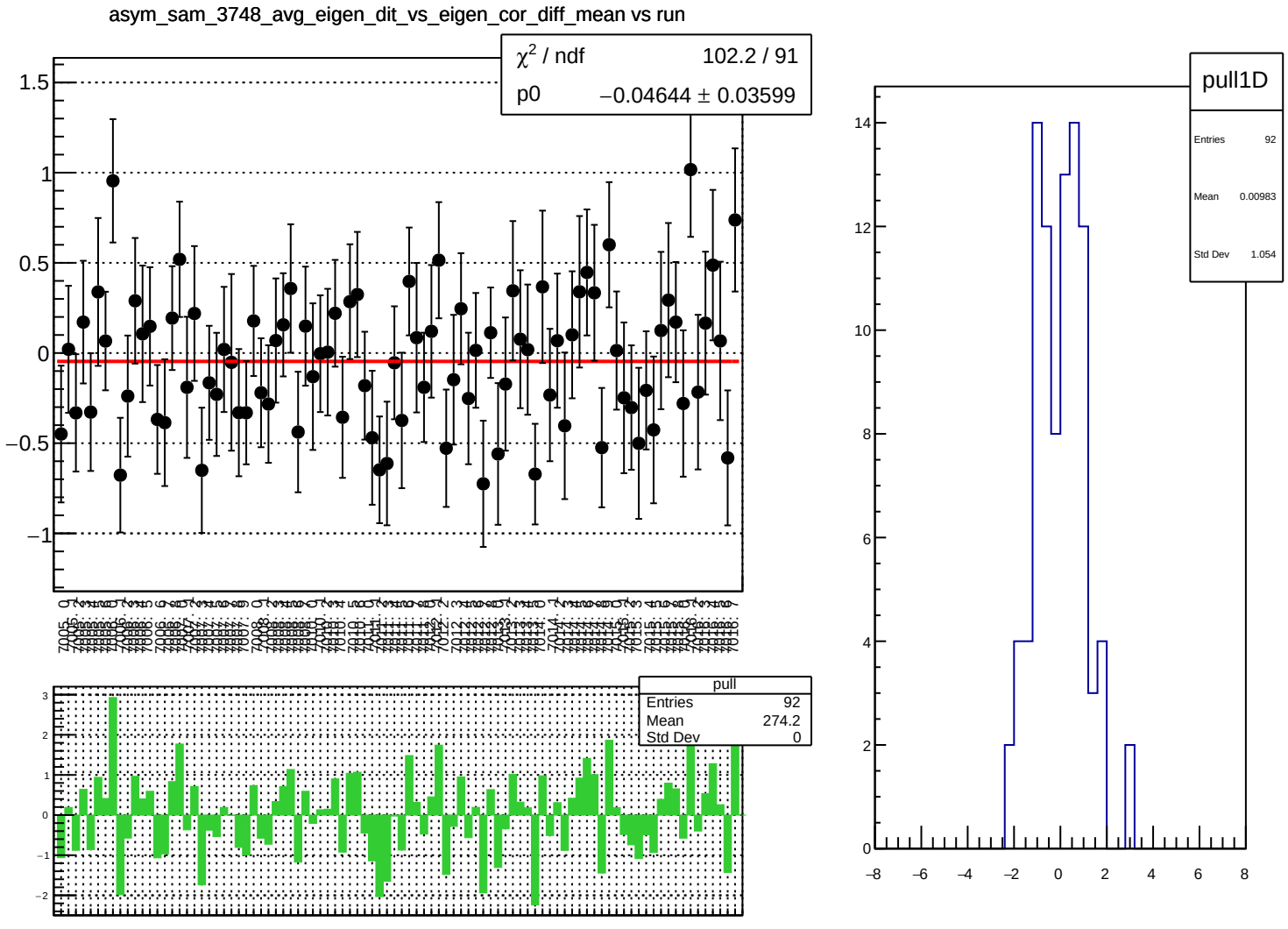

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.31 / 91
p0 1.017e−05 ± 3.544e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −28.56
Std Dev 29.63
2
1
0
−1
−2

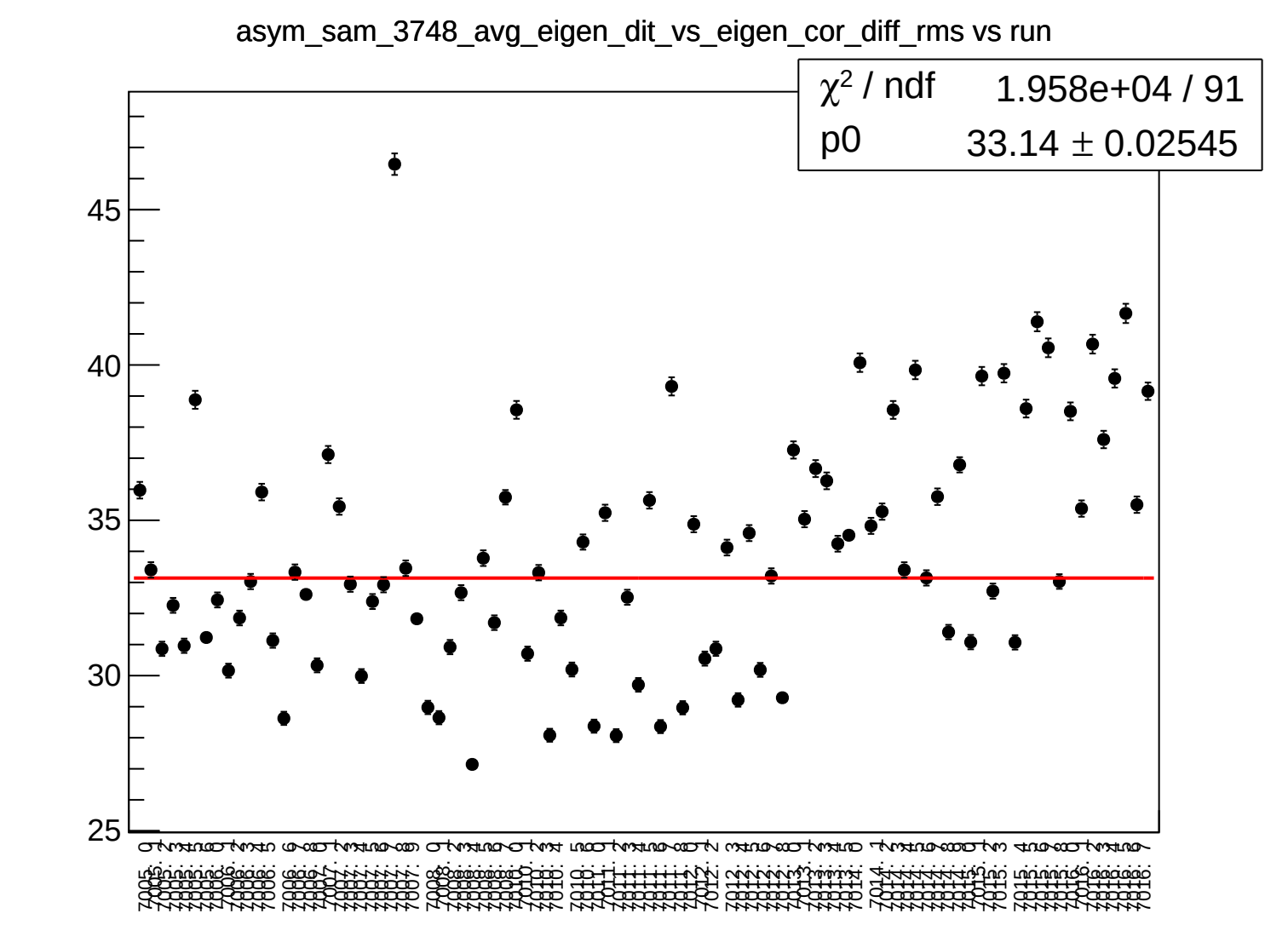

pull1D
Entries 92
Mean −0.01407
Std Dev 0.9166
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

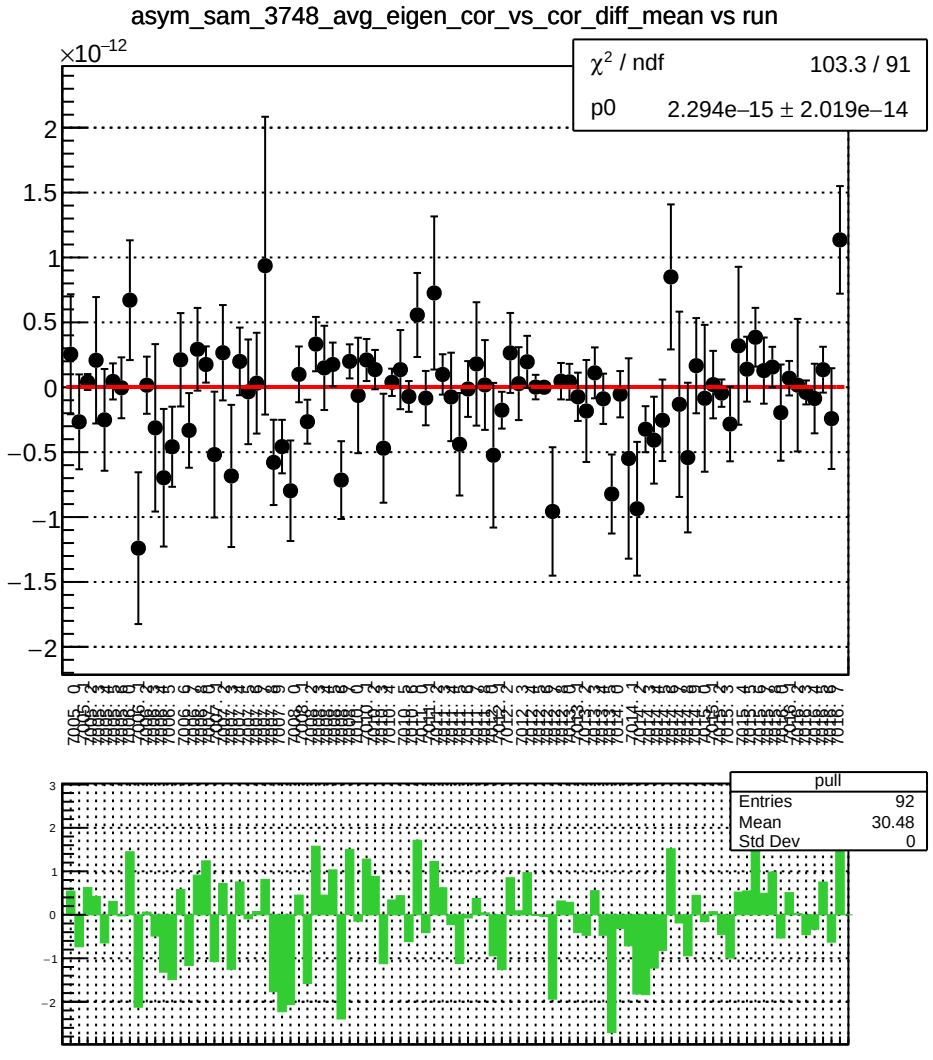

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3067 / 91
p0 0.003279 ± 2.506e−06
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

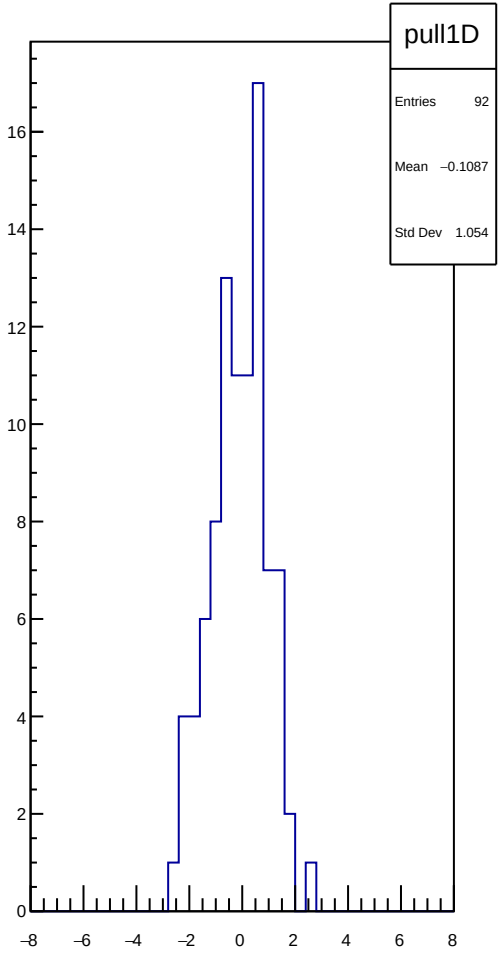

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 91
p0 −0.04644 ± 0.03599
pull
Entries 92
Mean 274.2
Std Dev 0
pull1D
Entries 92
Mean 0.00983
Std Dev 1.054

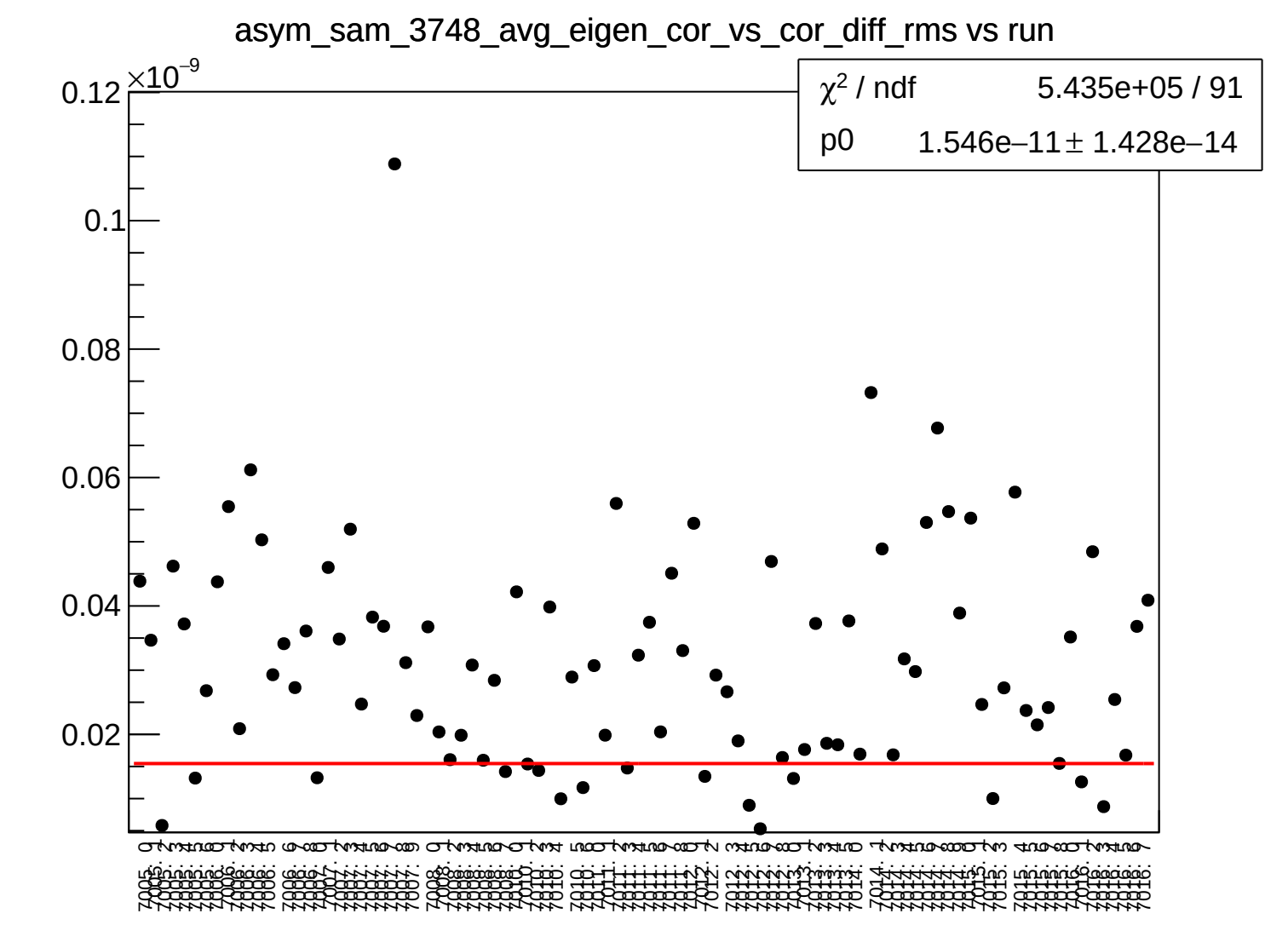

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.958e+04 / 91
p0 33.14 ± 0.02545
45
40
35
30
25

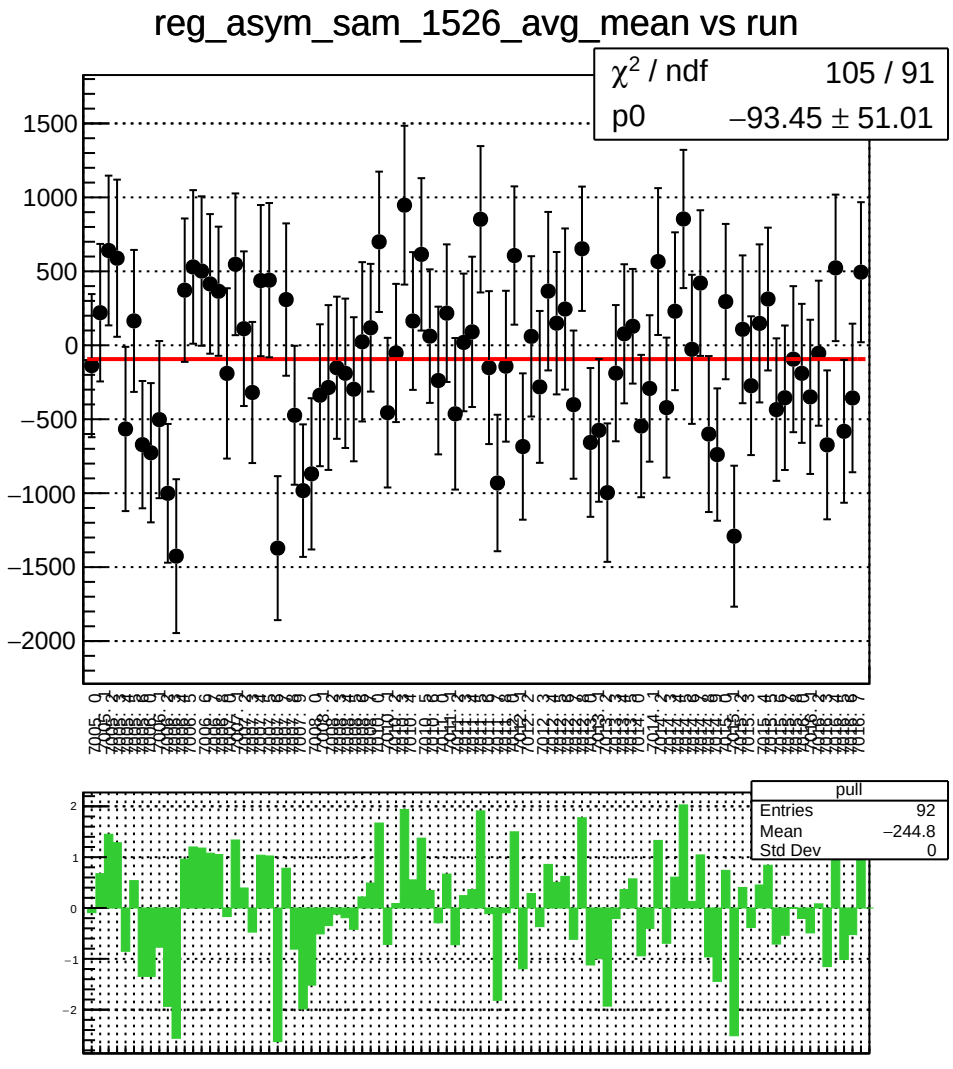

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 91
p0 −0.04644 ± 0.03599
pull
Entries 92
Mean 274.2
Std Dev 0
pull1D
Entries 92
Mean 0.00983
Std Dev 1.054

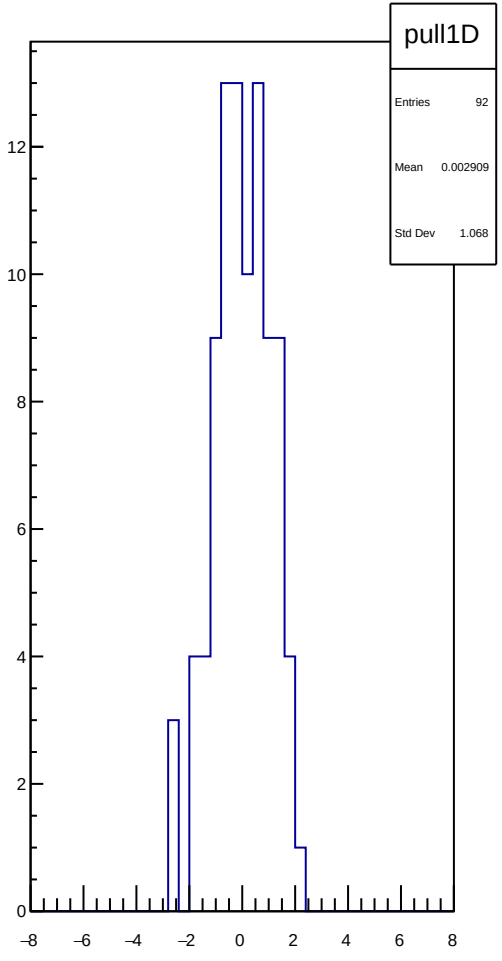

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.958e+04 / 91
p0 33.14 ± 0.02545
45
40
35
30
25

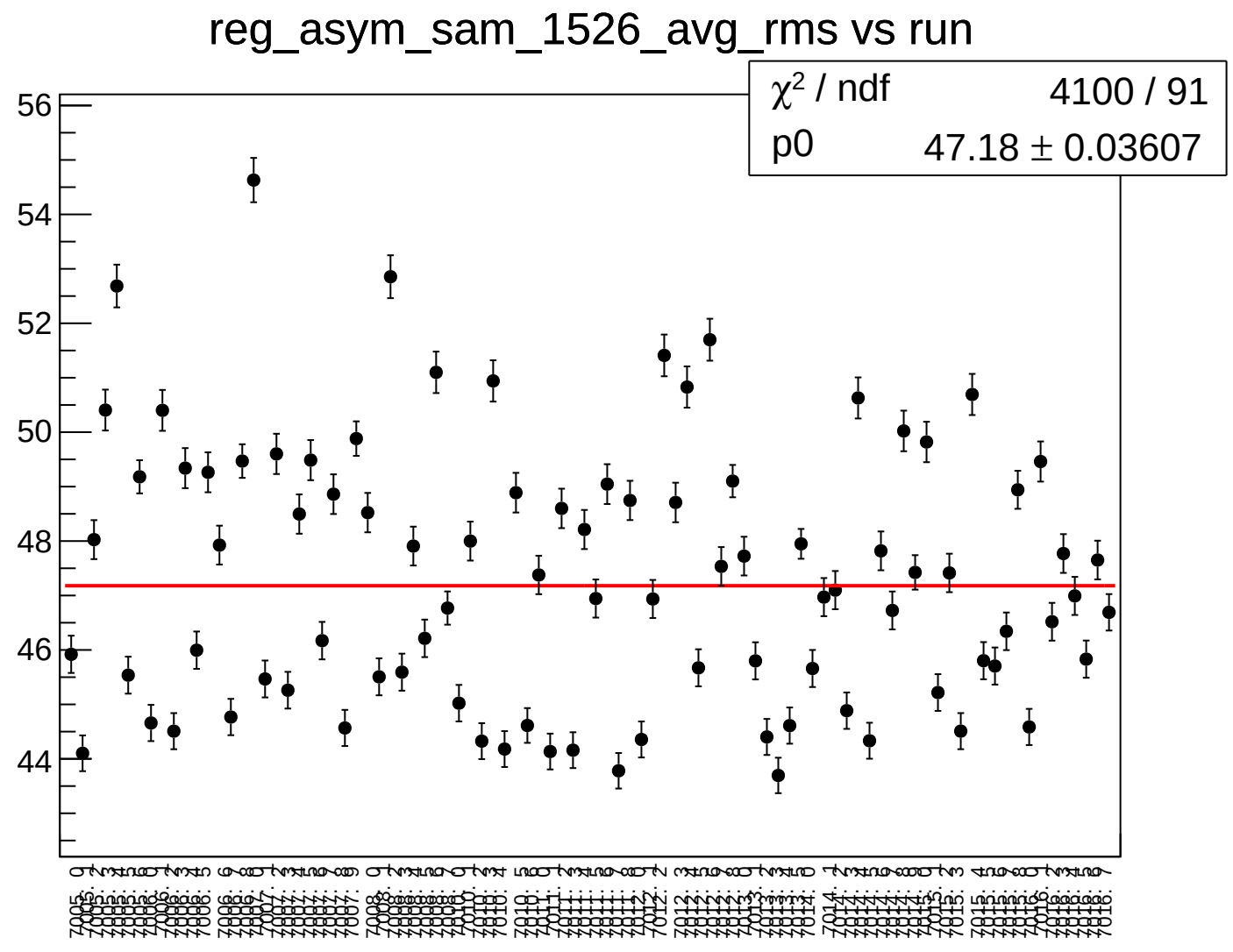

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.3 / 91
p0 2.294e−15 ± 2.019e−14
pull
Entries 92
Mean 30.48
Std Dev 0

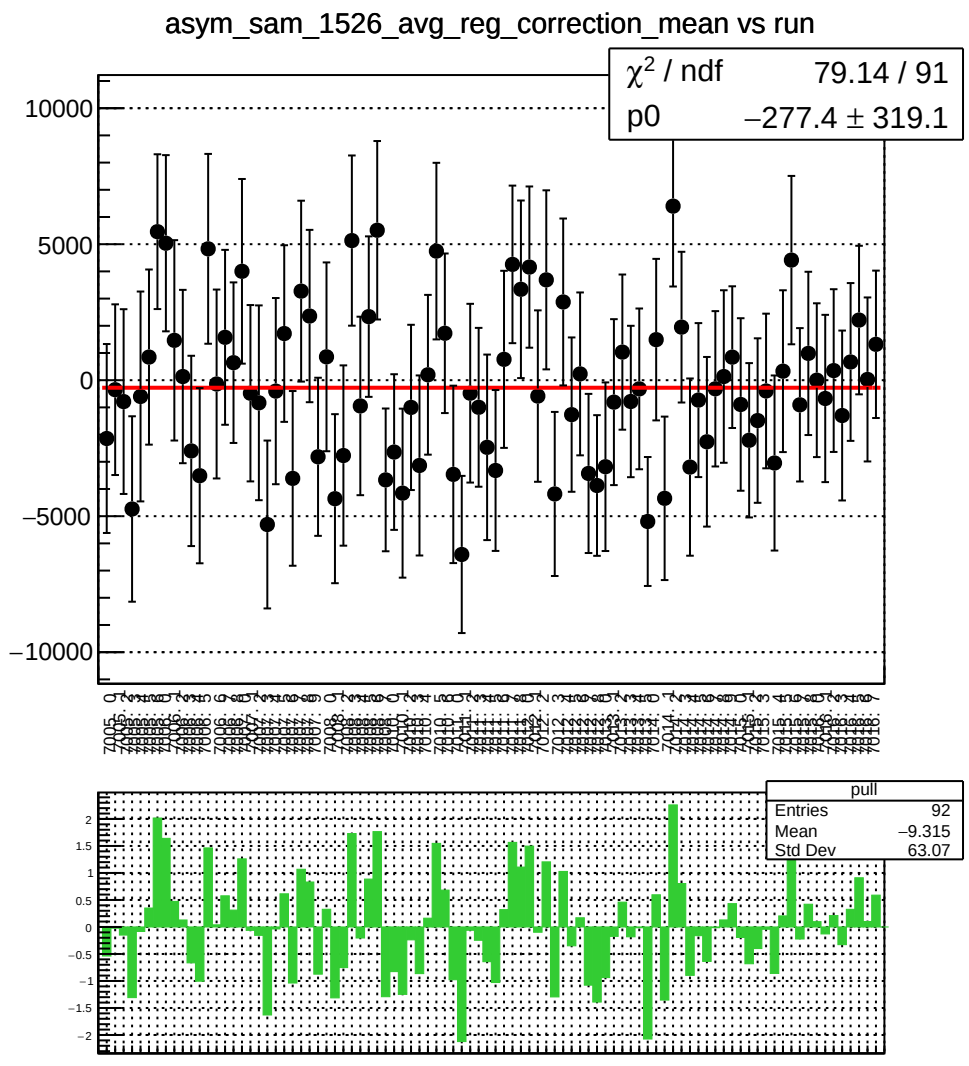

pull1D
Entries 92
Mean −0.1087
Std Dev 1.054

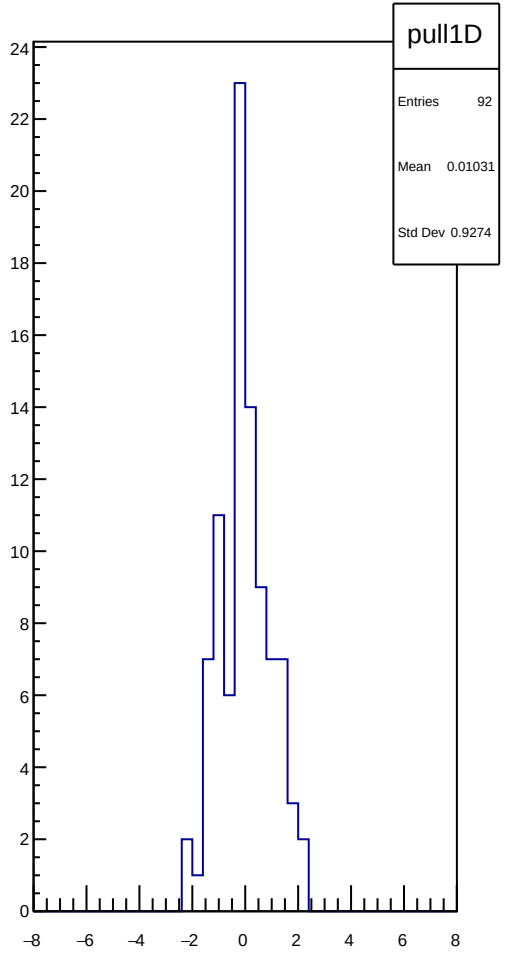

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.435e+05 / 91
p0 1.546e−11 ± 1.428e−14

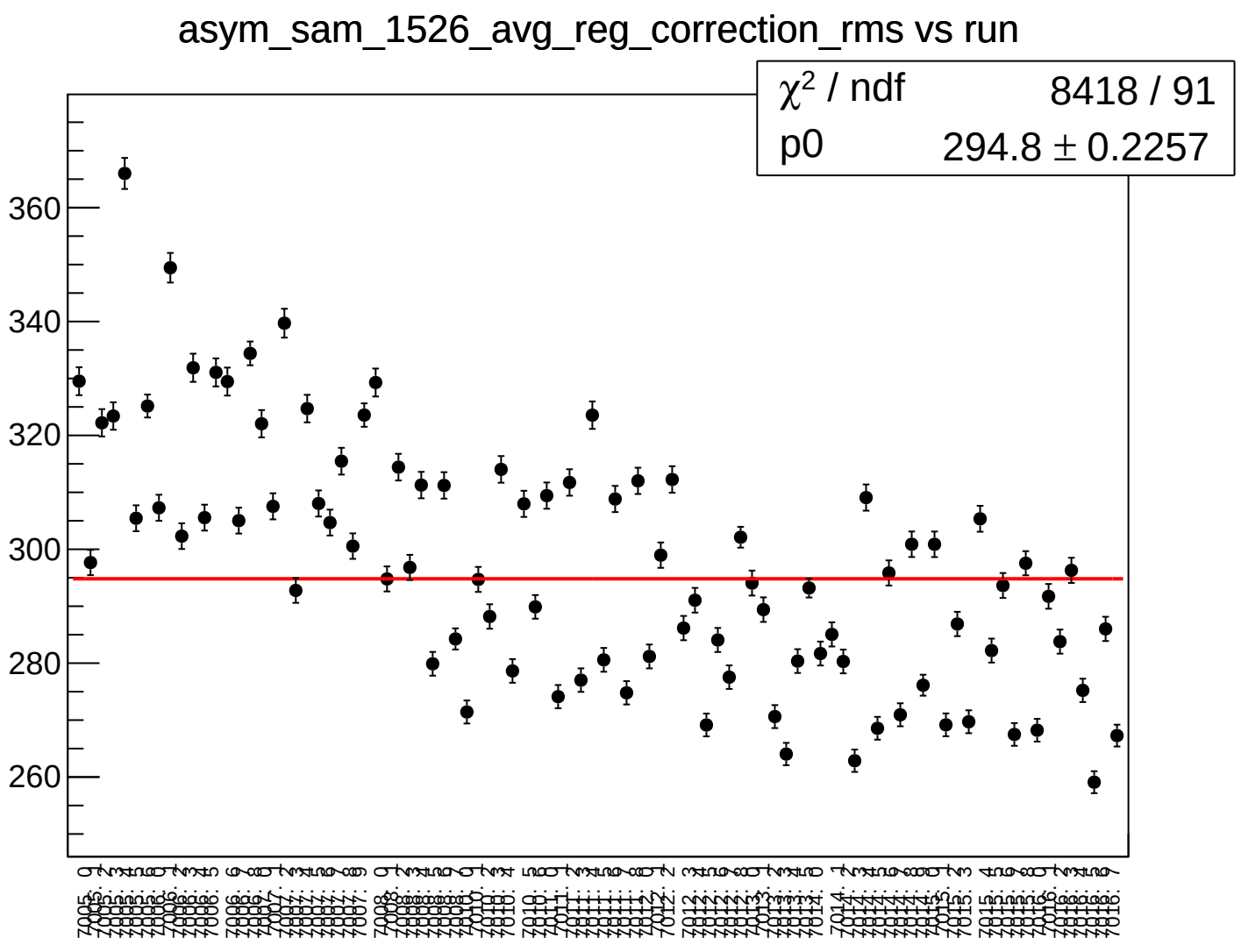

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 105 / 91
p0 −93.45 ± 51.01
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 92
Mean −244.8
Std Dev 0
2
1
0
−1
−2

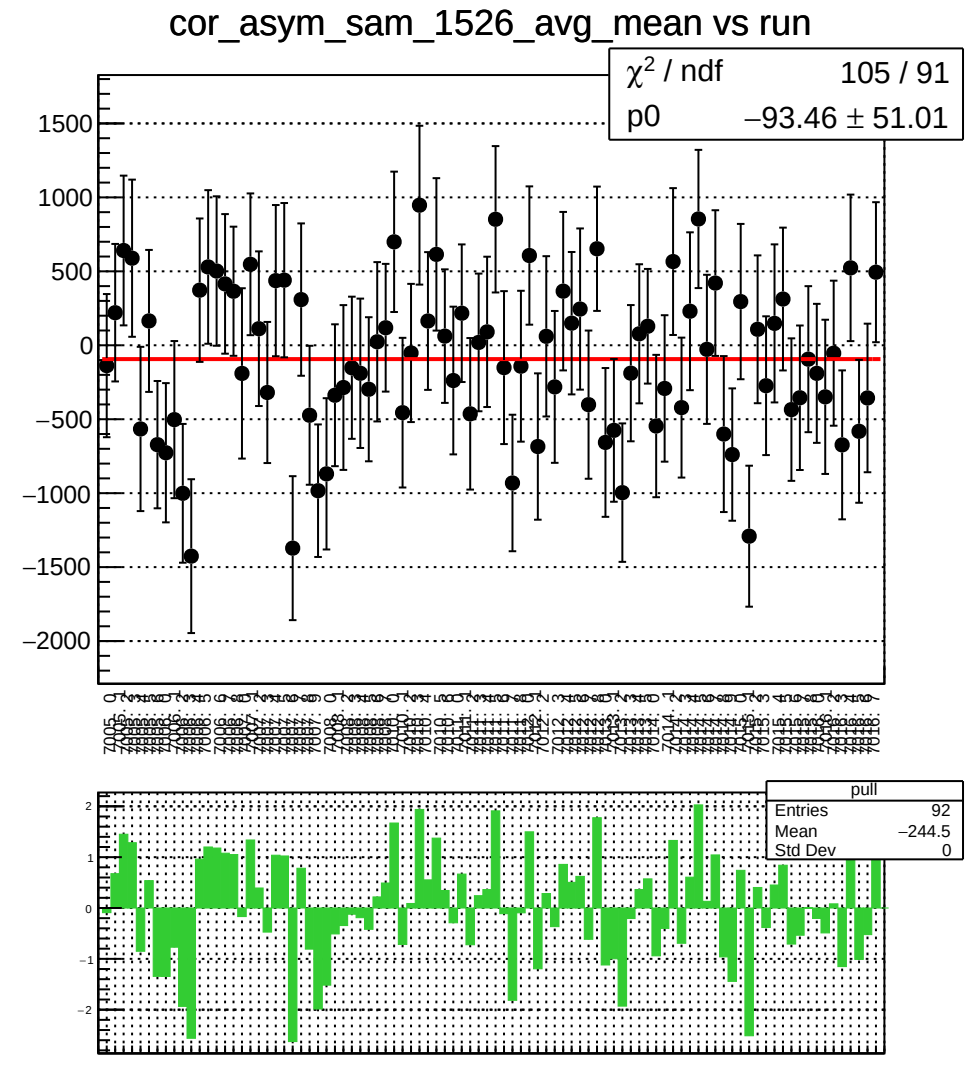

pull1D
Entries 92
Mean 0.002909
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

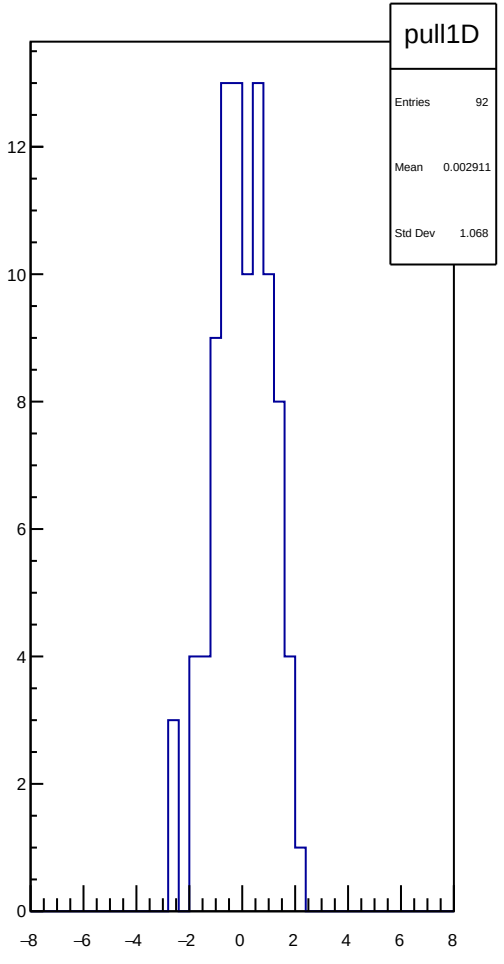

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 4100 / 91
p0 47.18 ± 0.03607
56
54
52
50
48
46
44

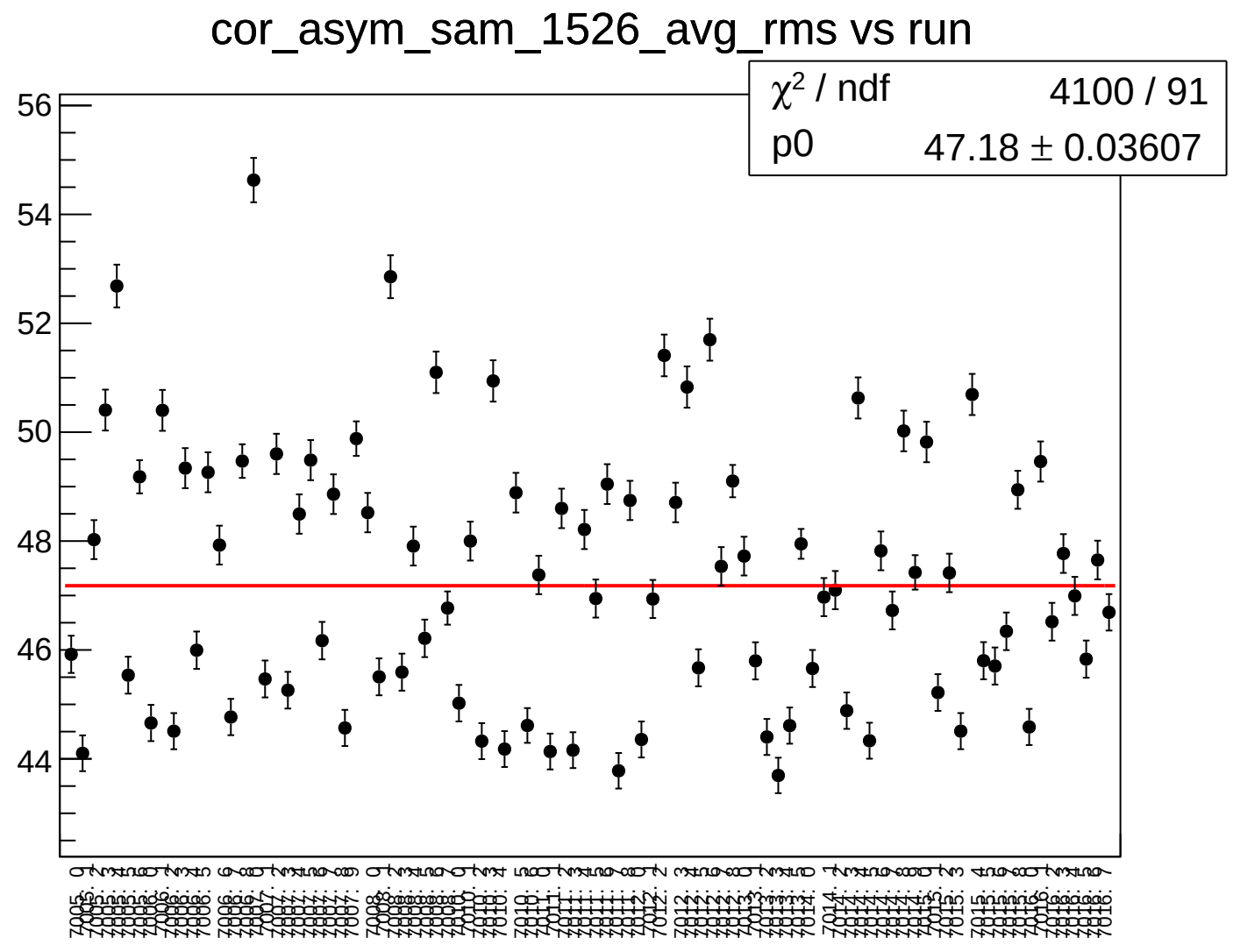

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 79.14 / 91
p0 −277.4 ± 319.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −9.315
Std Dev 63.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

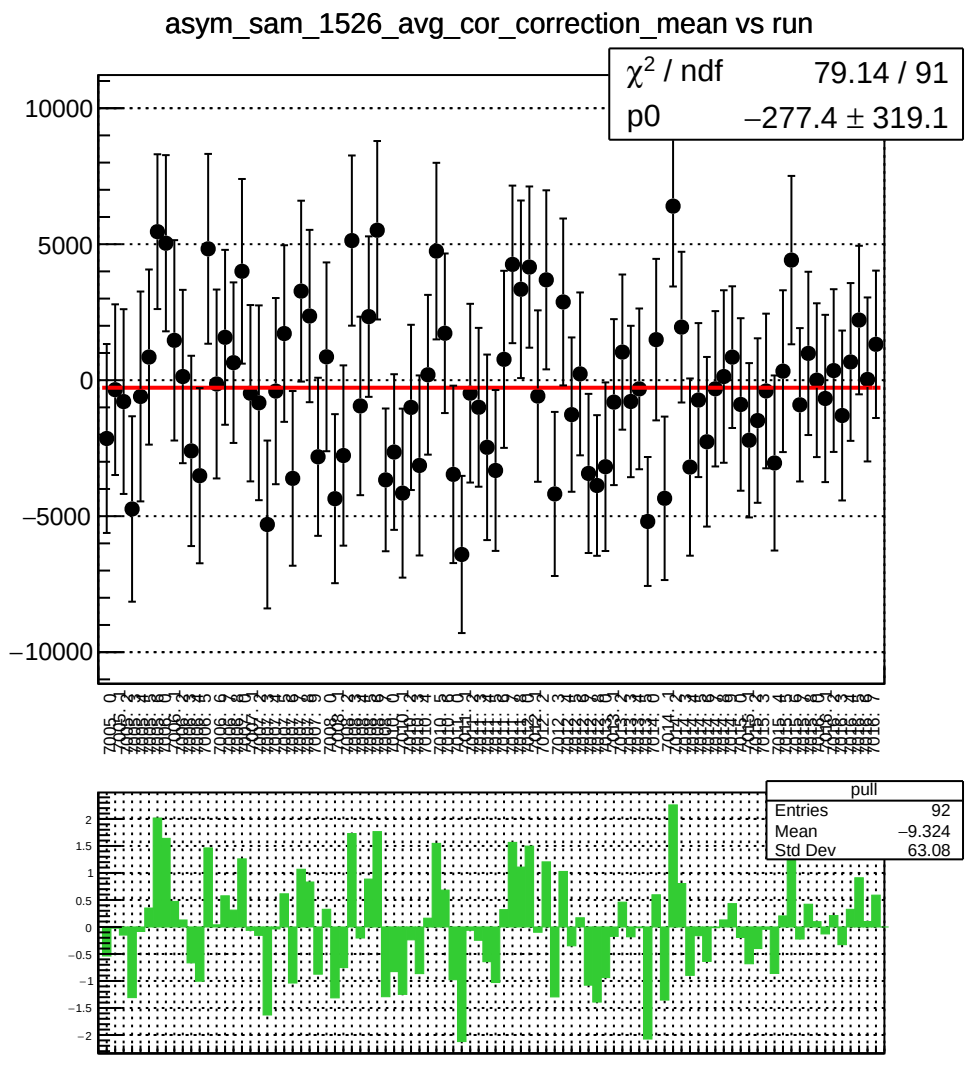

pull1D
Entries 92
Mean 0.01031
Std Dev 0.9274
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

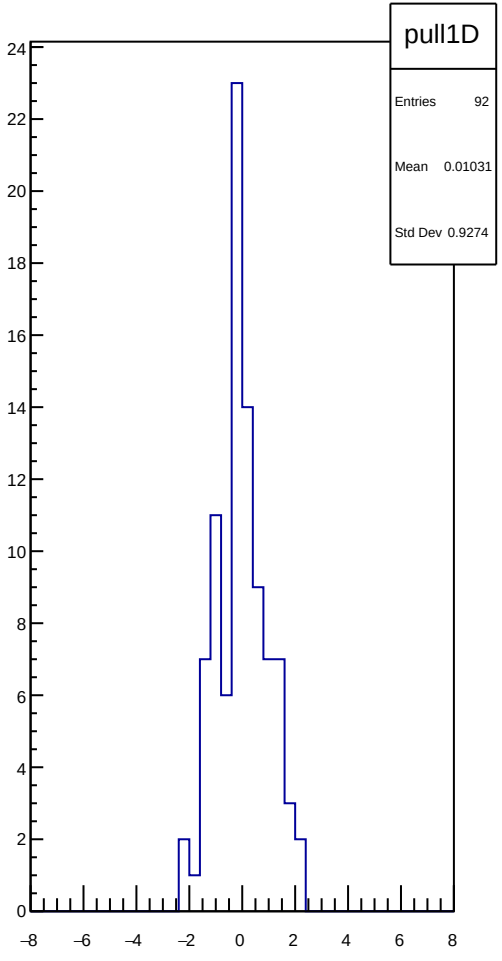

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 8418 / 91
p0 294.8 ± 0.2257
360
340
320
300
280
260

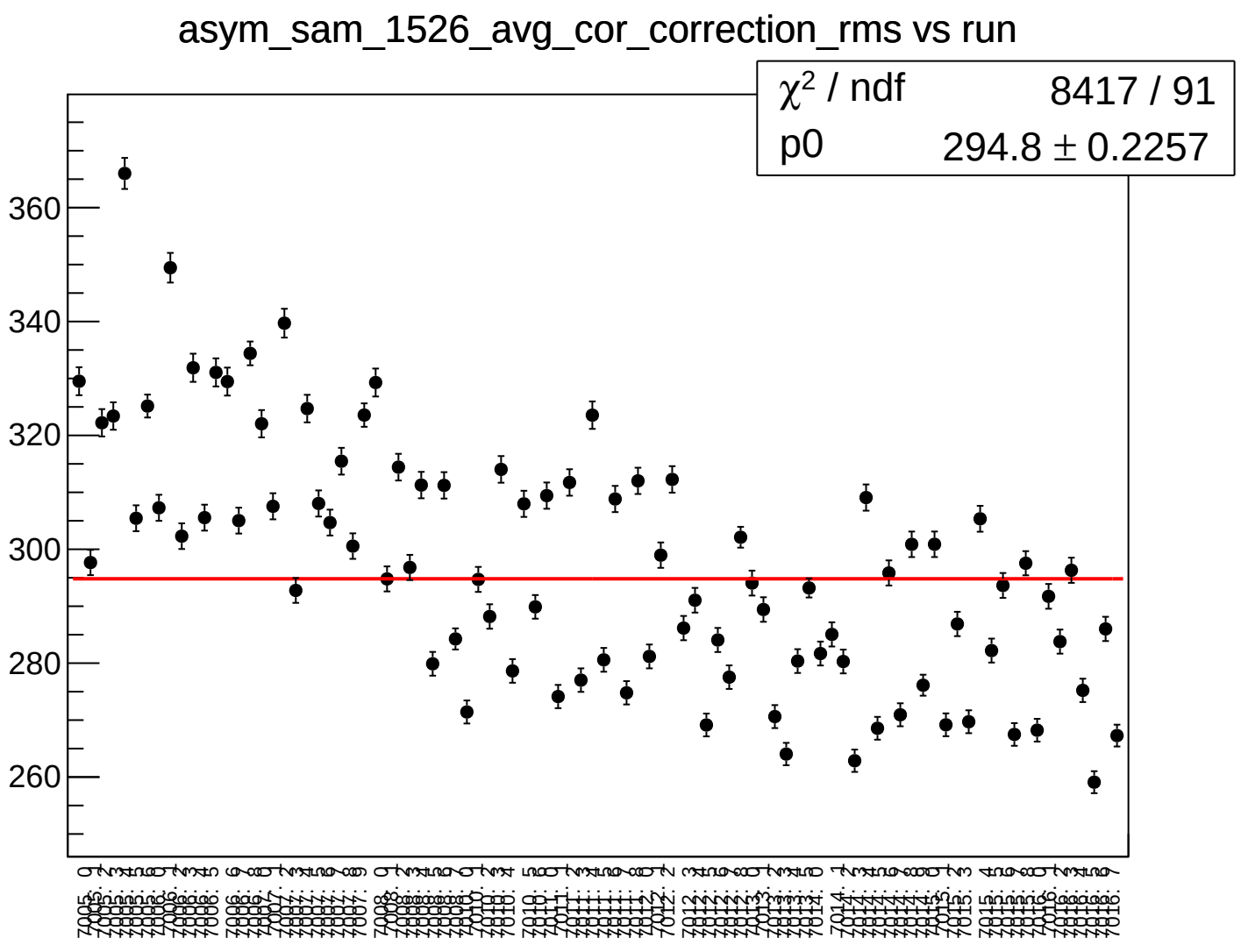

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 105 / 91
p0 −93.46 ± 51.01
pull
Entries 92
Mean −244.5
Std Dev 0

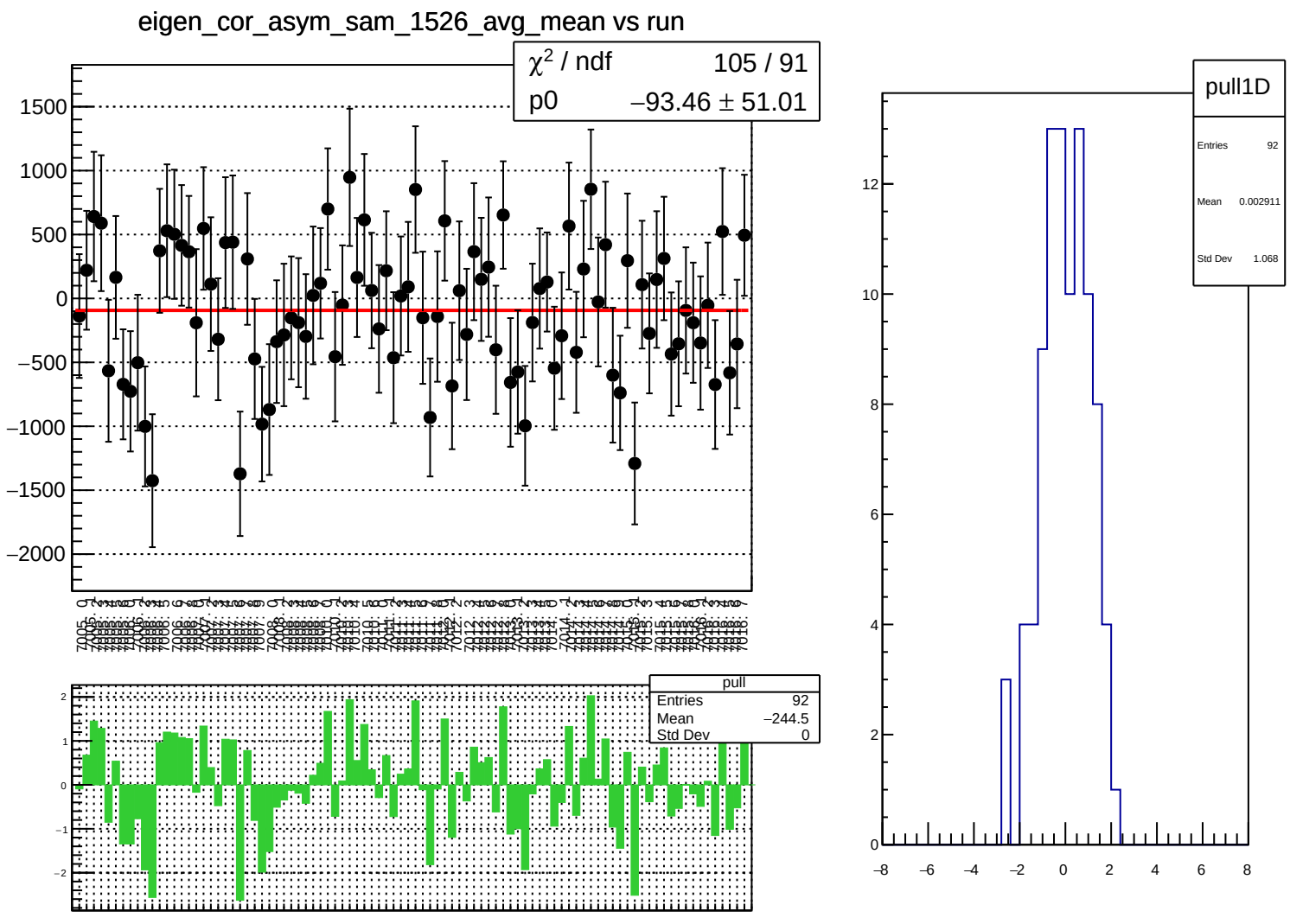

pull1D
Entries 92
Mean 0.002911
Std Dev 1.068

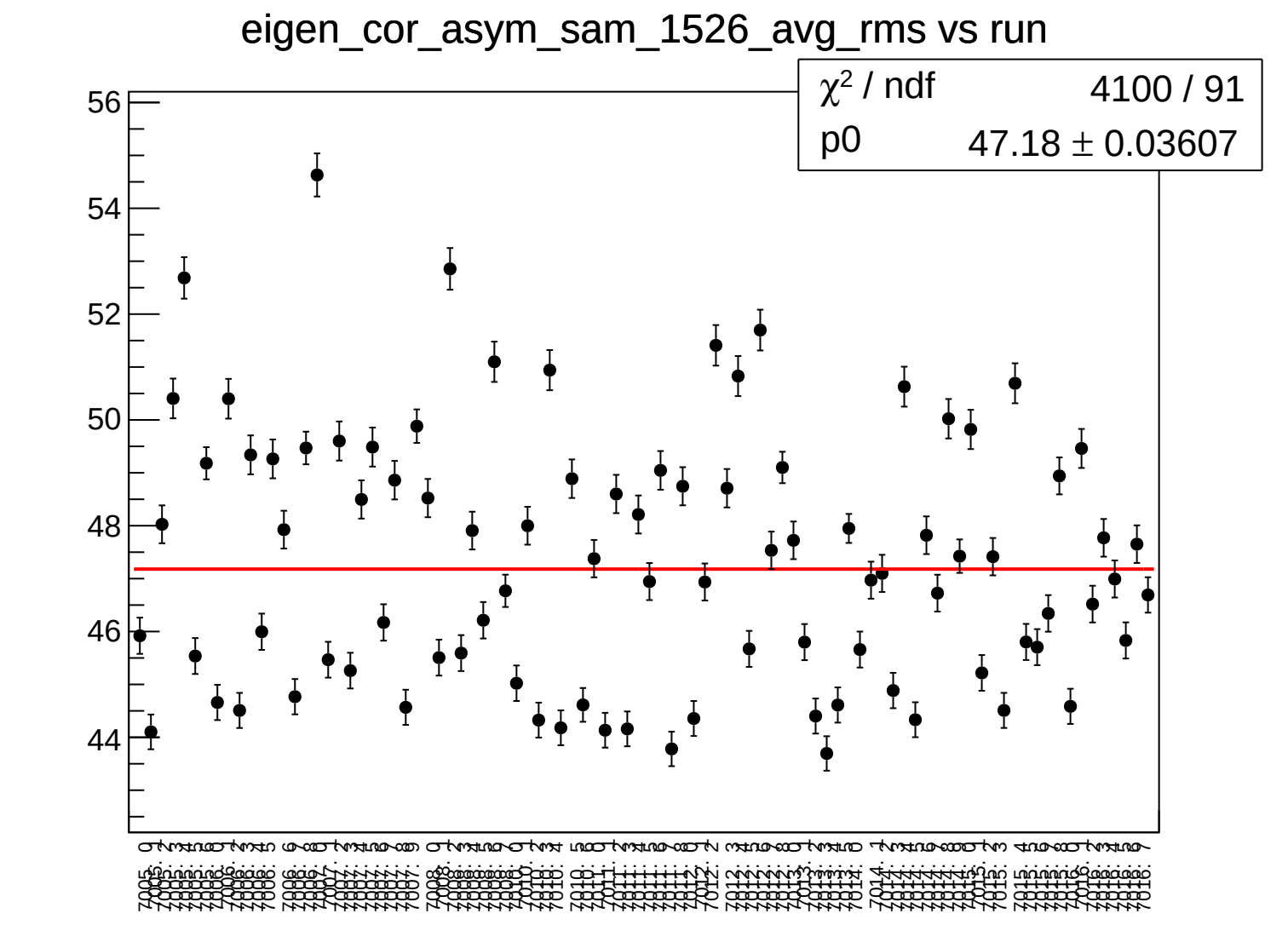

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4100 / 91
p0 47.18 ± 0.03607
56
54
52
50
48
46
44

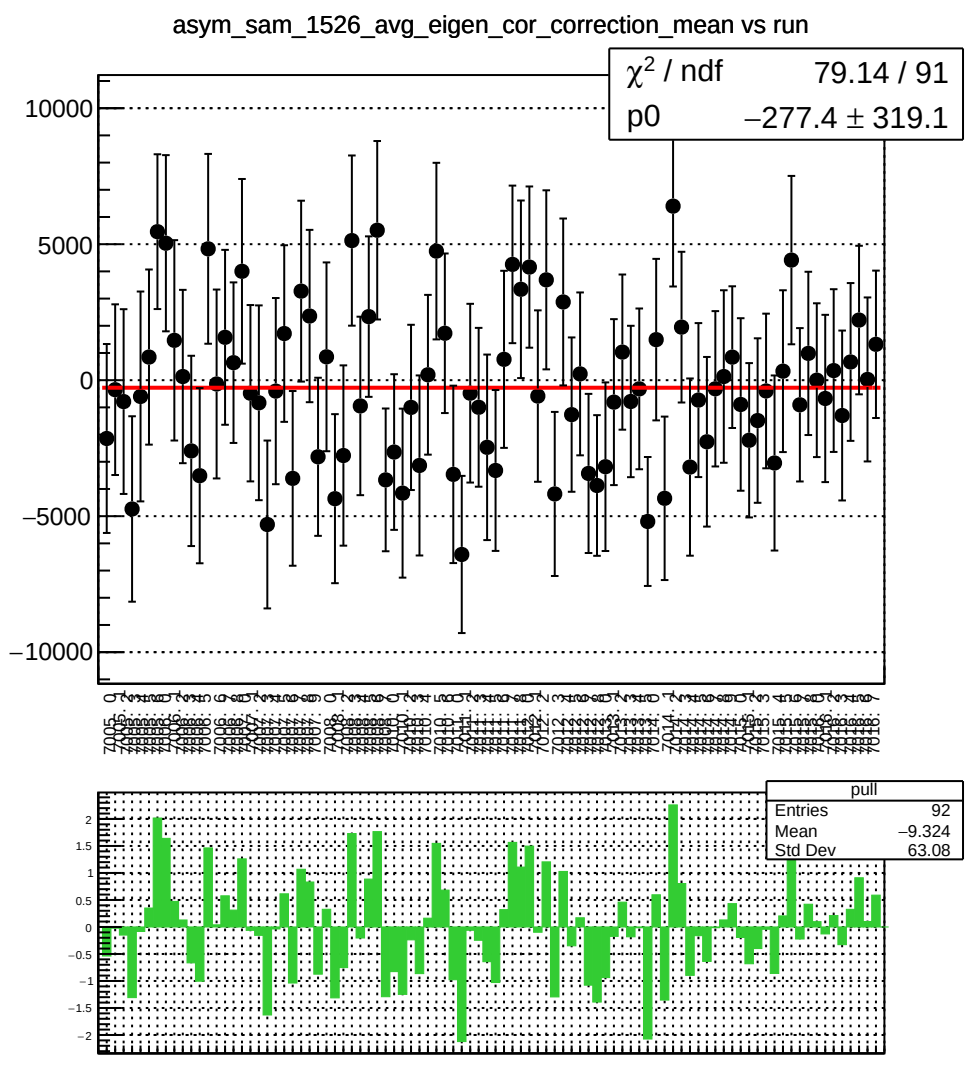

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 79.14 / 91
p0 −277.4 ± 319.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −9.324
Std Dev 63.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

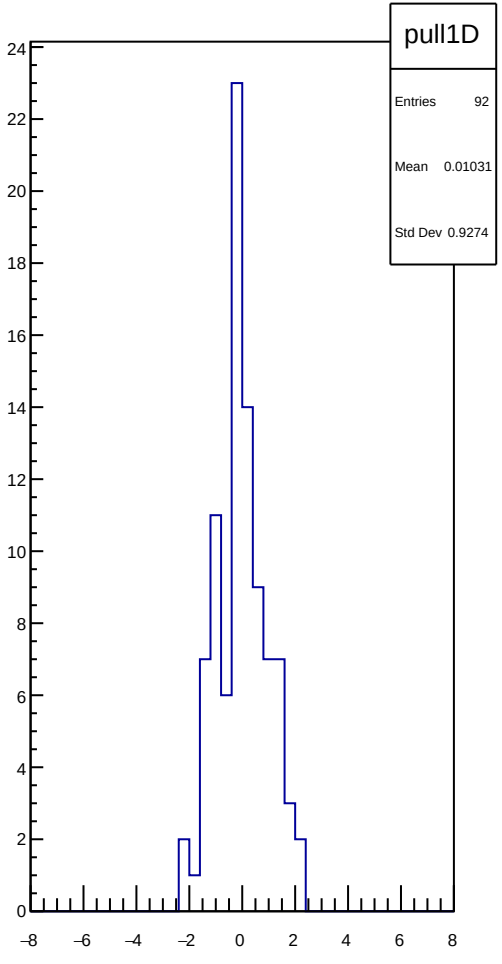

pull1D
Entries 92
Mean 0.01031
Std Dev 0.9274
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

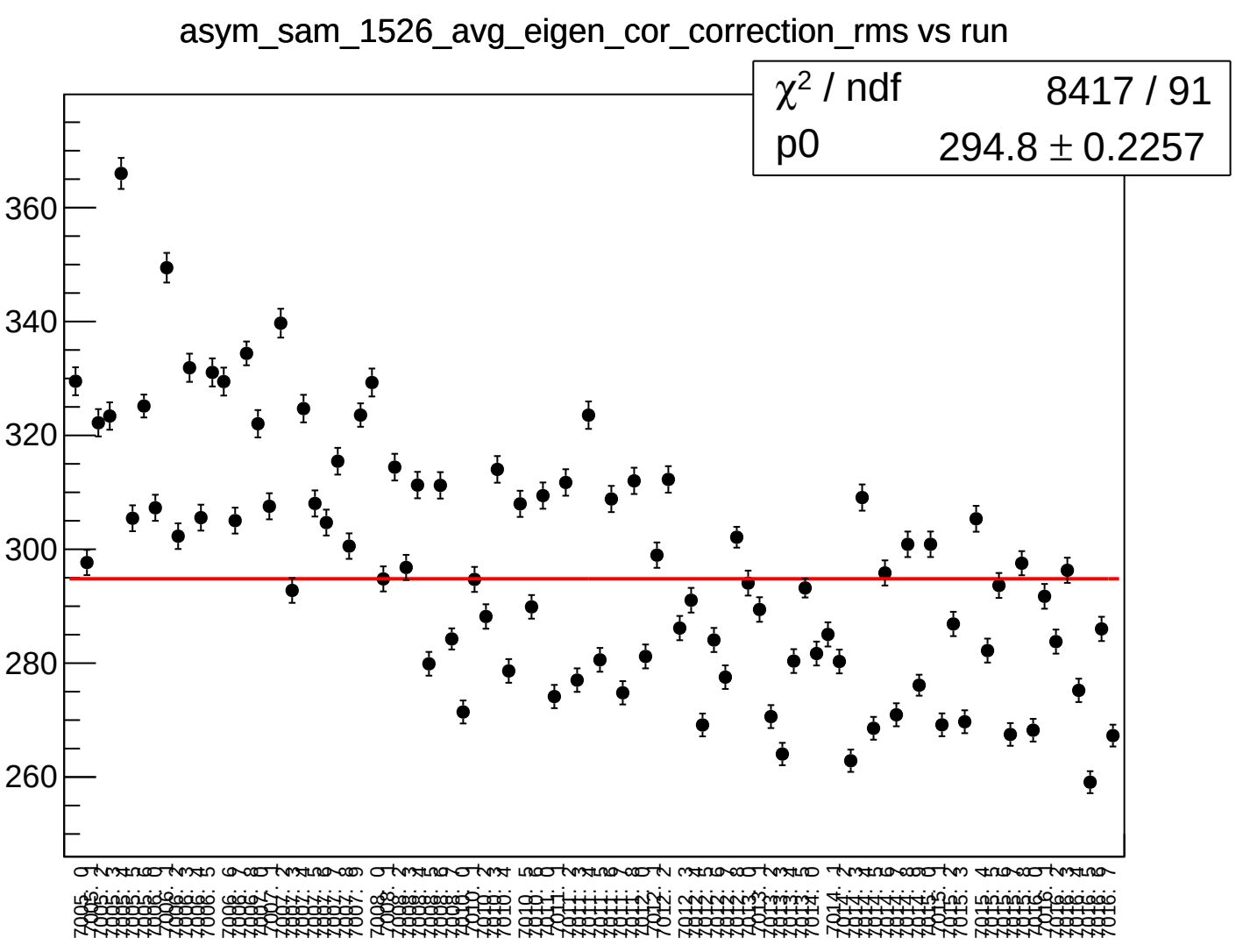

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 8417 / 91
p0 294.8 ± 0.2257
360
340
320
300
280
260

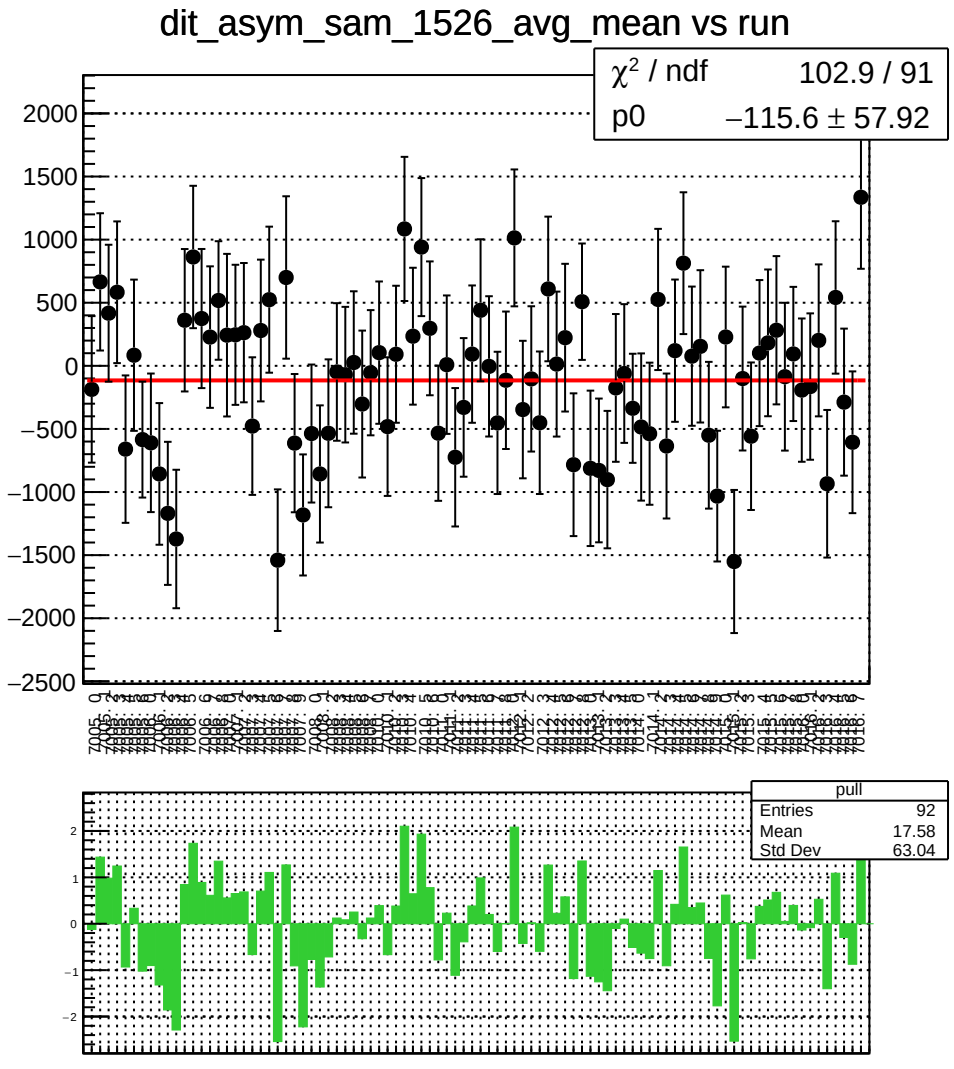

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 105 / 91
p0 −93.46 ± 51.01
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 92
Mean −244.5
Std Dev 0
pull1D
Entries 92
Mean 0.002911
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

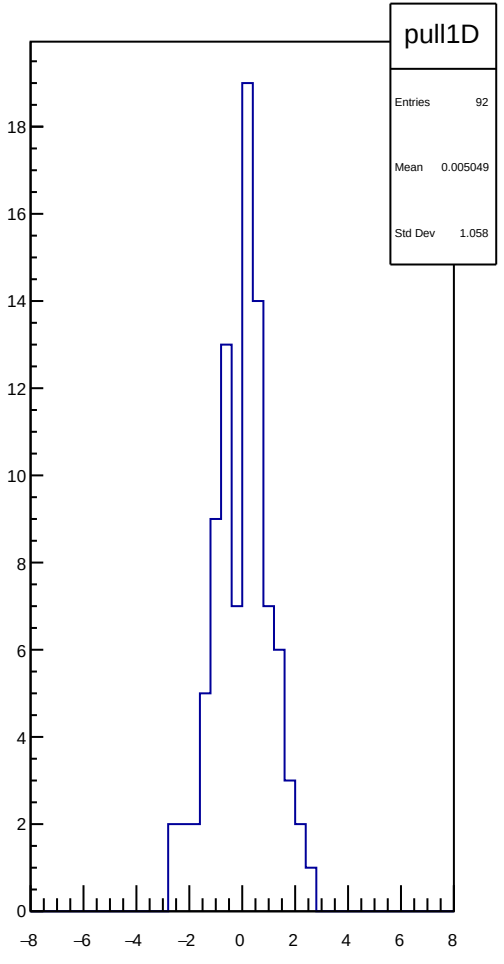

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4100 / 91
p0 47.18 ± 0.03607
56
54
52
50
48
46
44

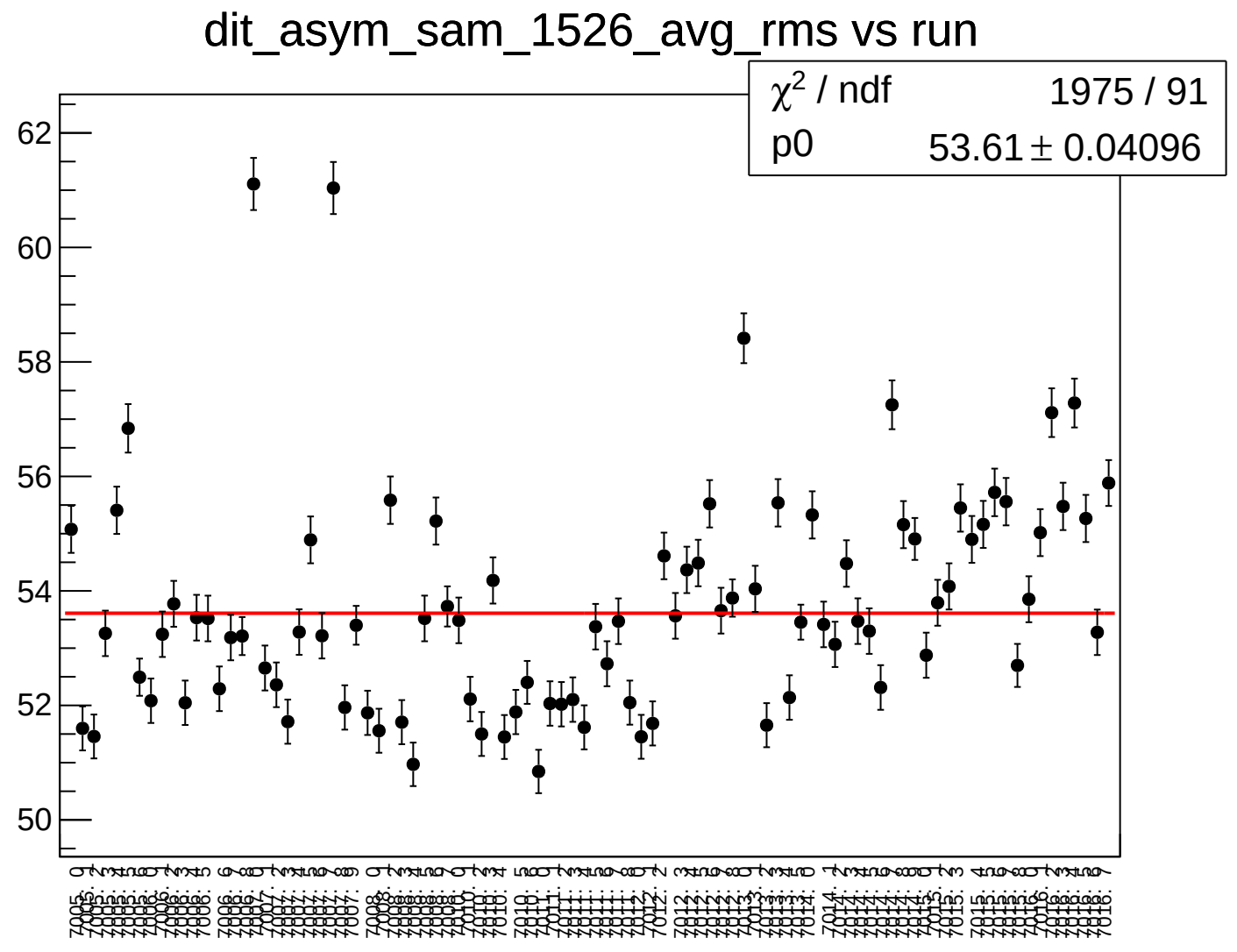

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.14 / 91
p0 −277.4 ± 319.1
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −9.324
Std Dev 63.08
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

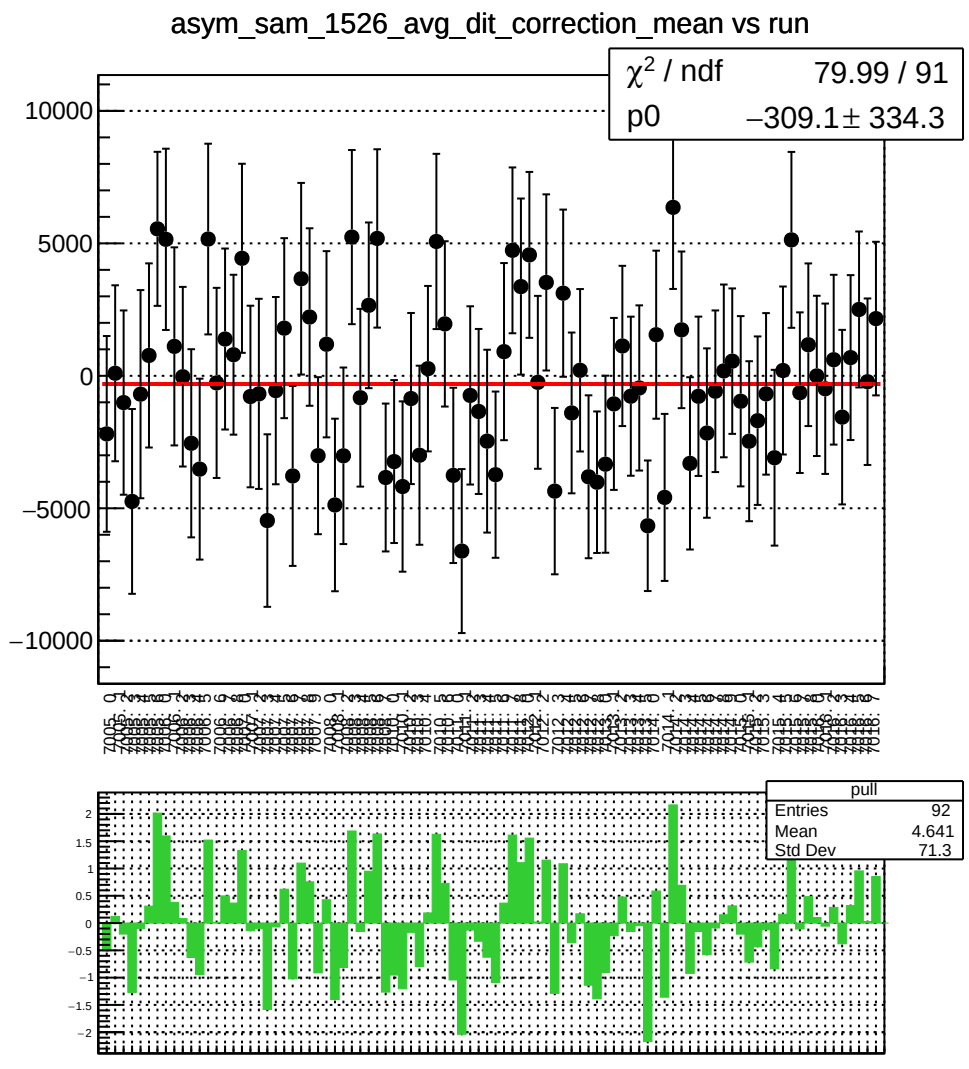

pull1D
Entries 92
Mean 0.01031
Std Dev 0.9274
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

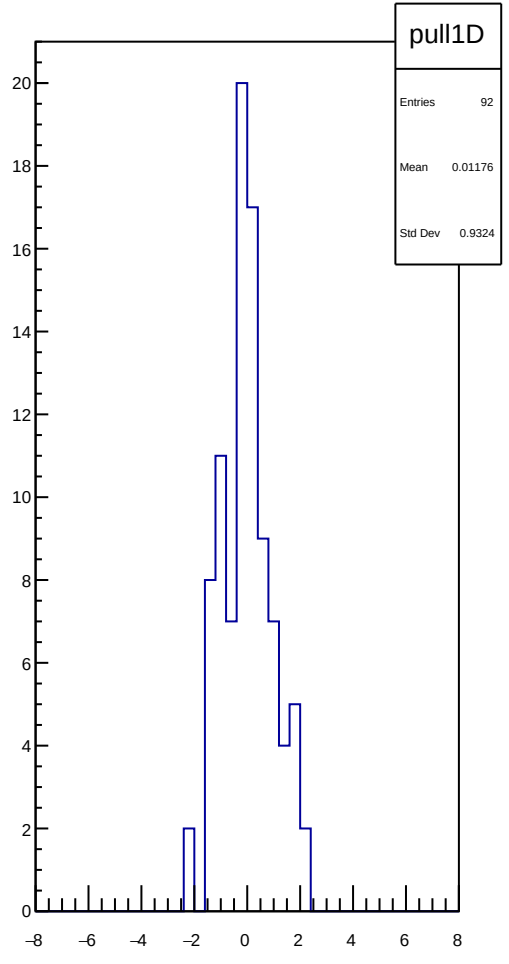

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 8417 / 91
p0 294.8 ± 0.2257
360
340
320
300
280
260

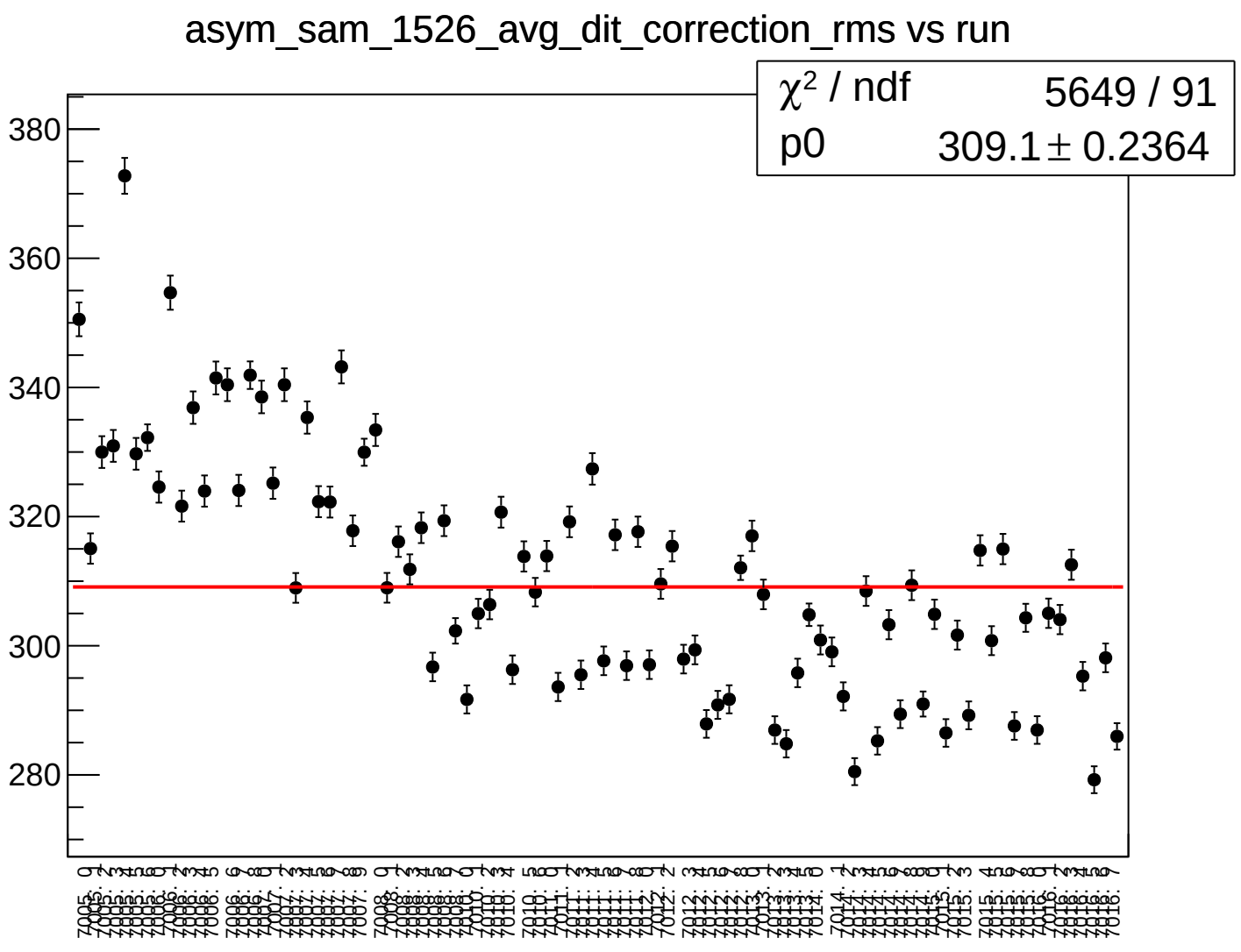

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 102.9 / 91
p0 −115.6 ± 57.92
pull
Entries 92
Mean 17.58
Std Dev 63.04

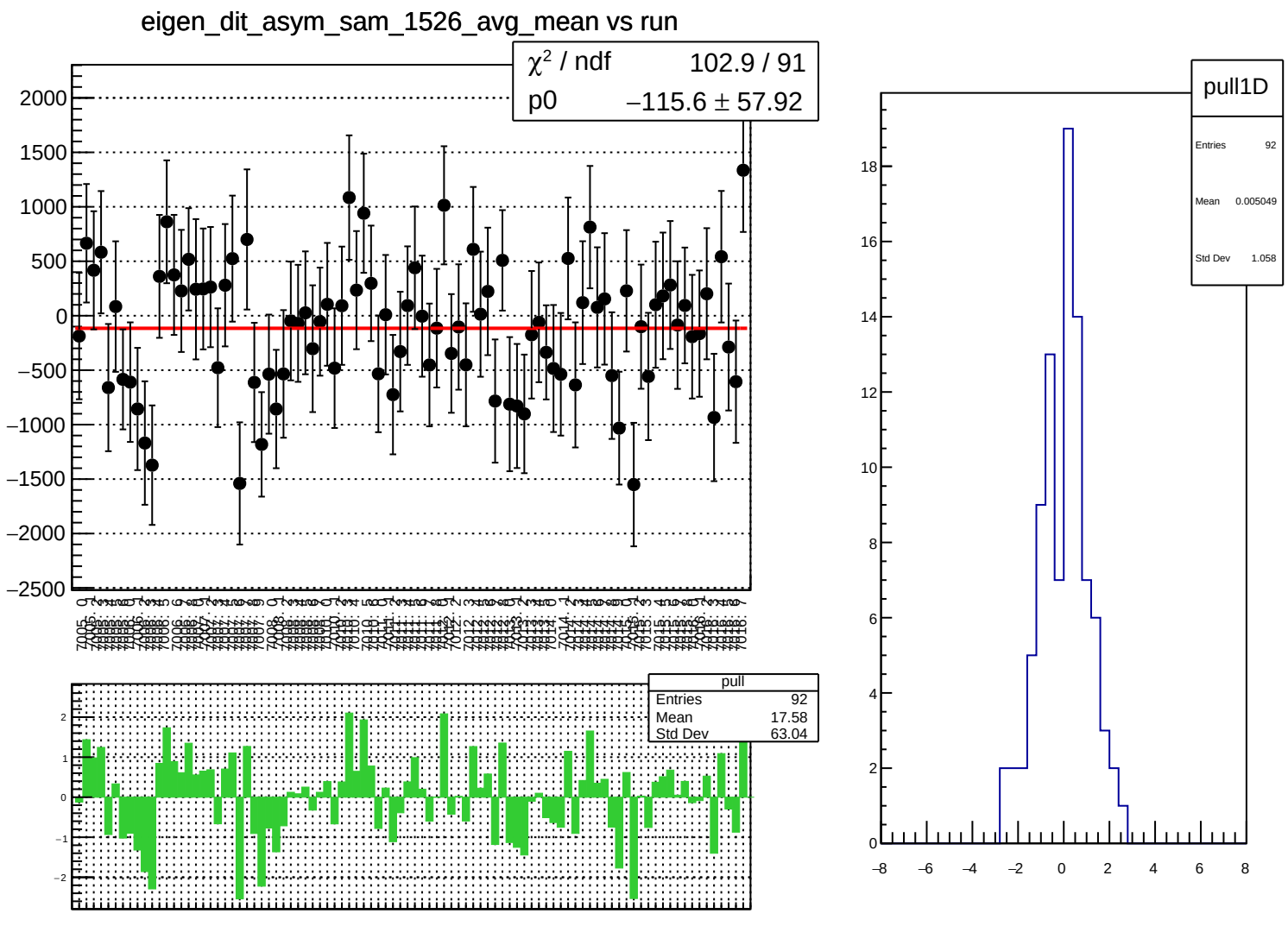

pull1D
Entries 92
Mean 0.005049
Std Dev 1.058

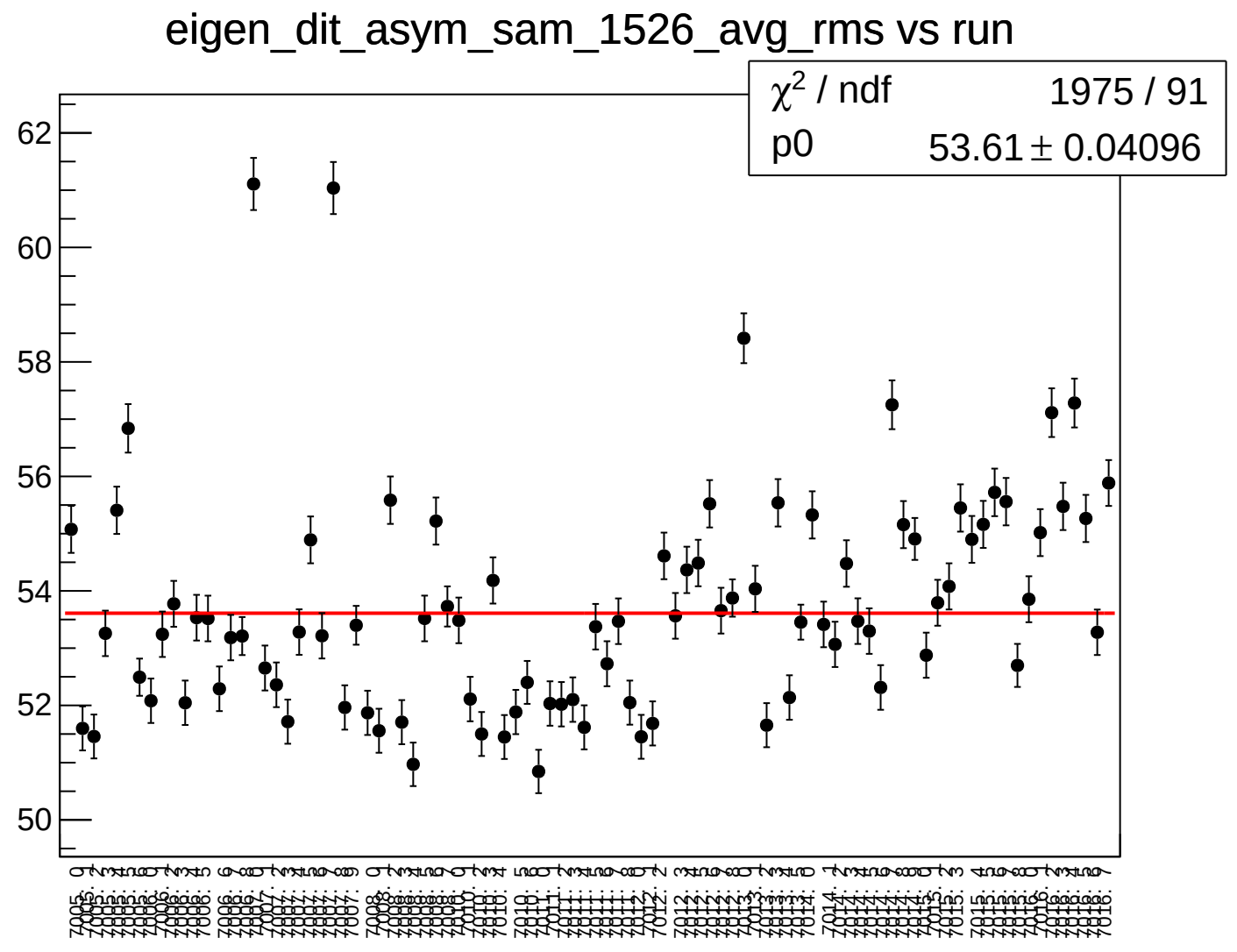

dit_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 1975 / 91
p0 53.61 ± 0.04096
62
60
58
56
54
52
50

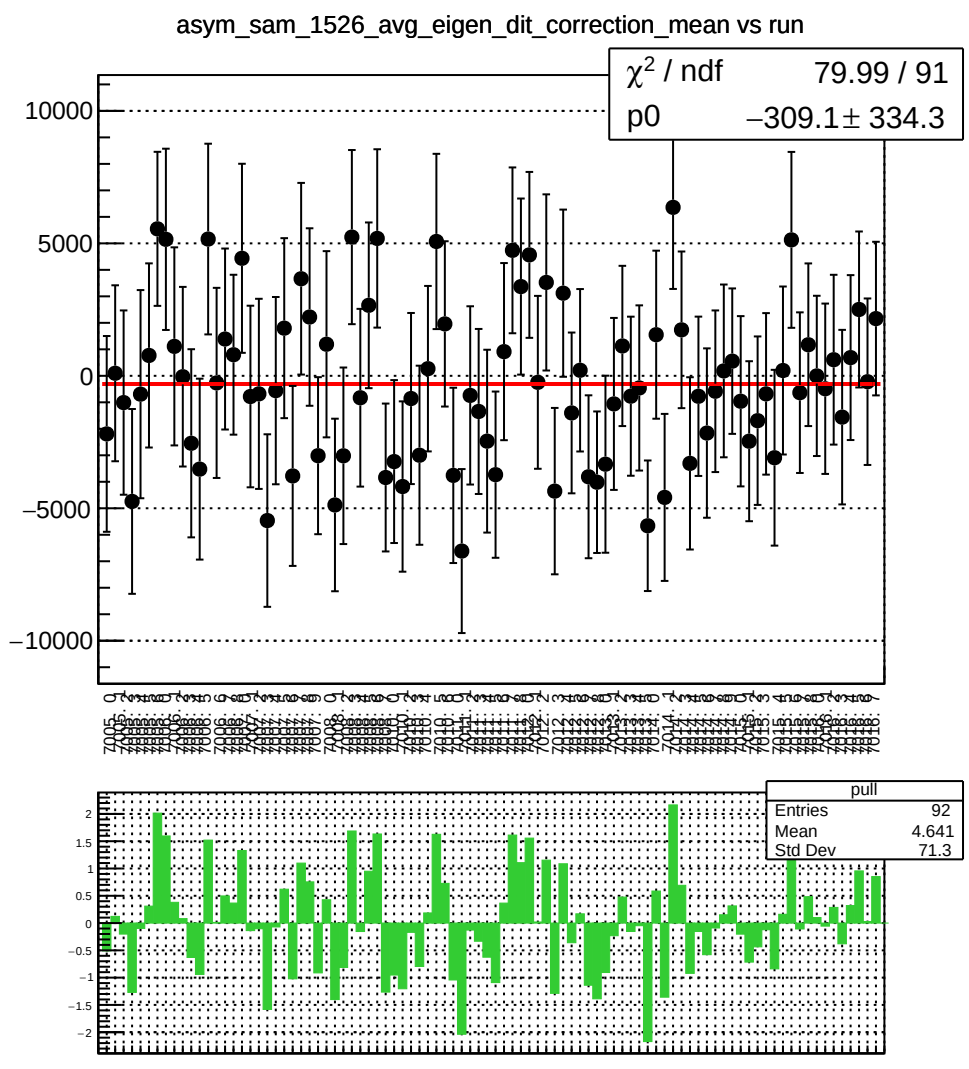

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 79.99 / 91
p0 −309.1 ± 334.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 4.641
Std Dev 71.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

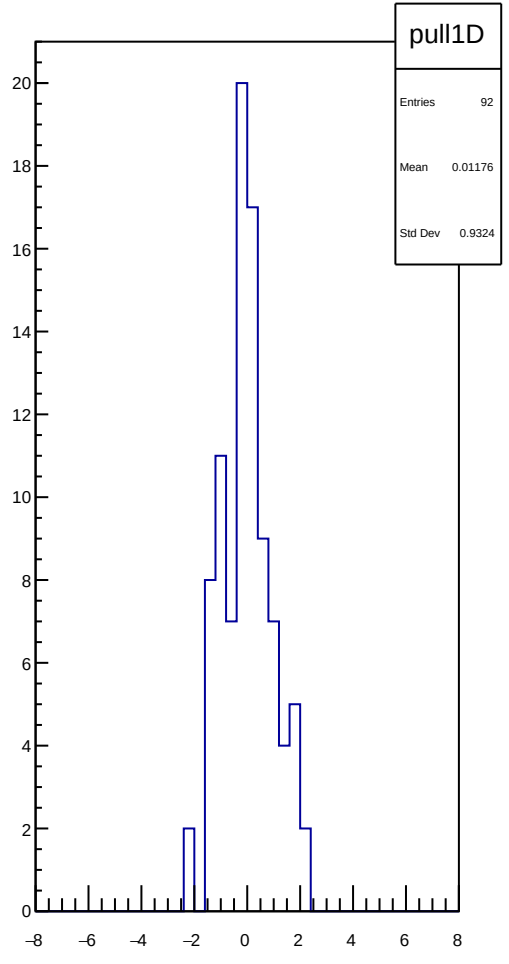

pull1D
Entries 92
Mean 0.01176
Std Dev 0.9324
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

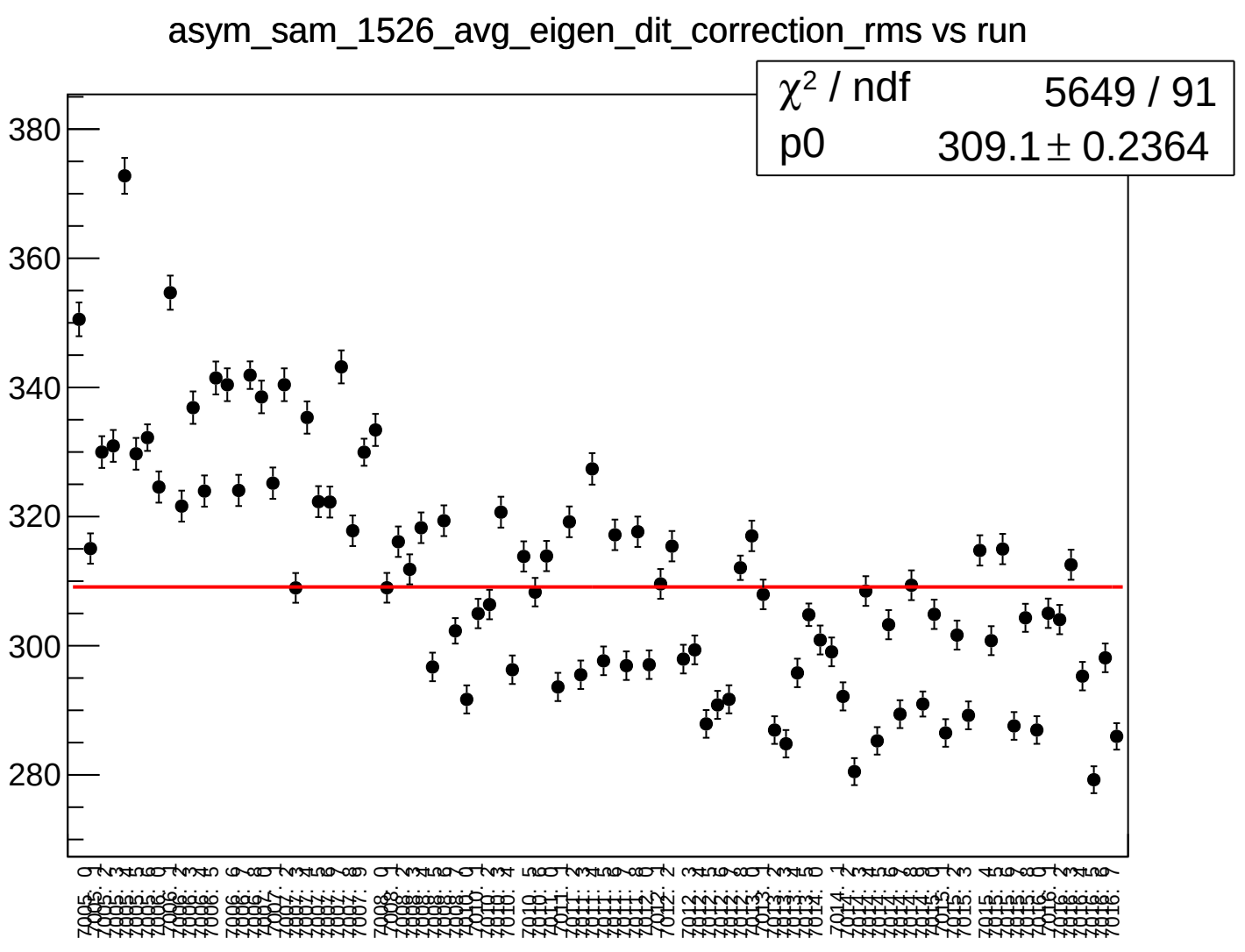

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 5649 / 91
p0 309.1 ± 0.2364
380
360
340
320
300
280

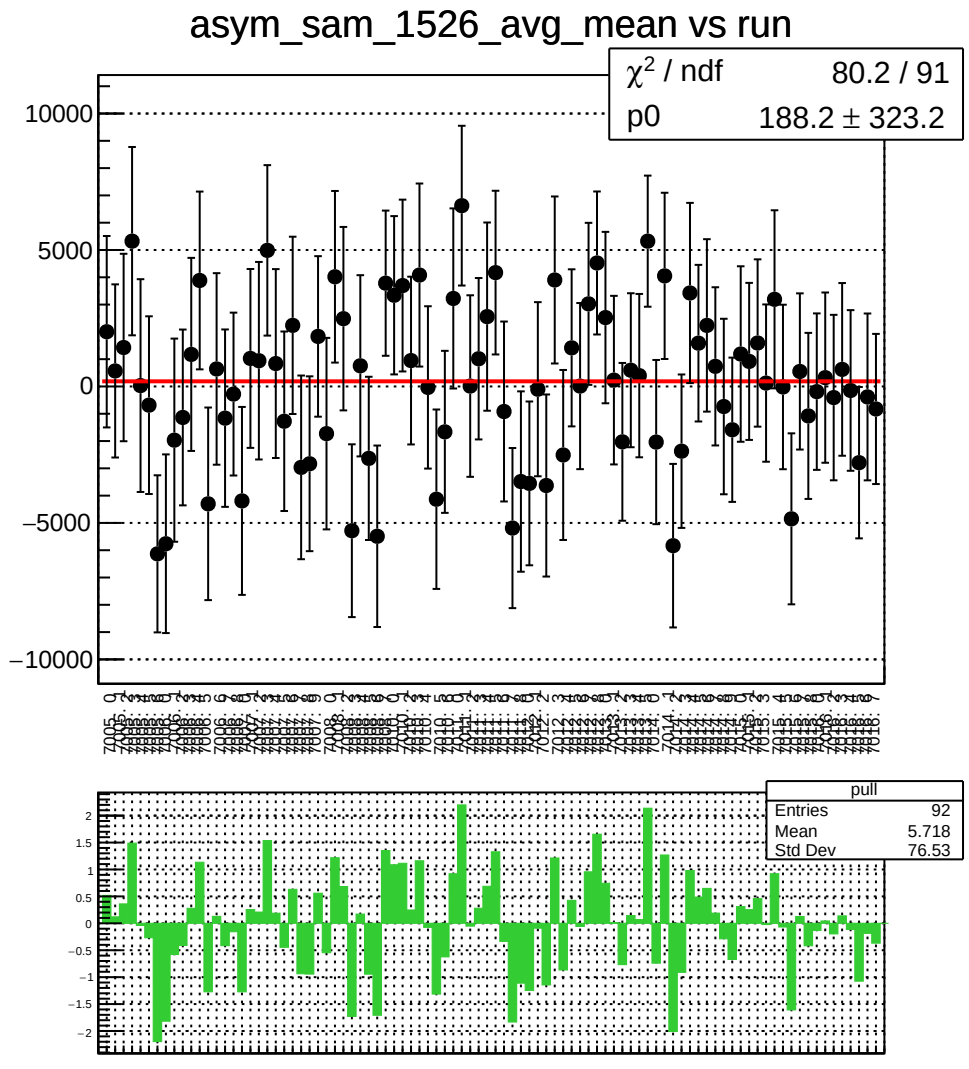

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 102.9 / 91
p0 −115.6 ± 57.92
pull
Entries 92
Mean 17.58
Std Dev 63.04
pull1D
Entries 92
Mean 0.005049
Std Dev 1.058

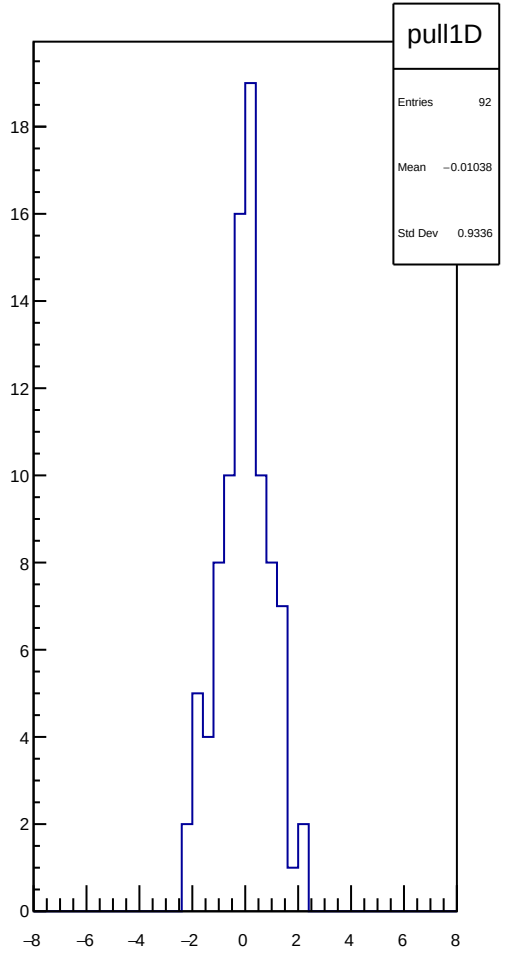

eigen_dit_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 1975 / 91
p0 53.61 ± 0.04096
62
60
58
56
54
52
50

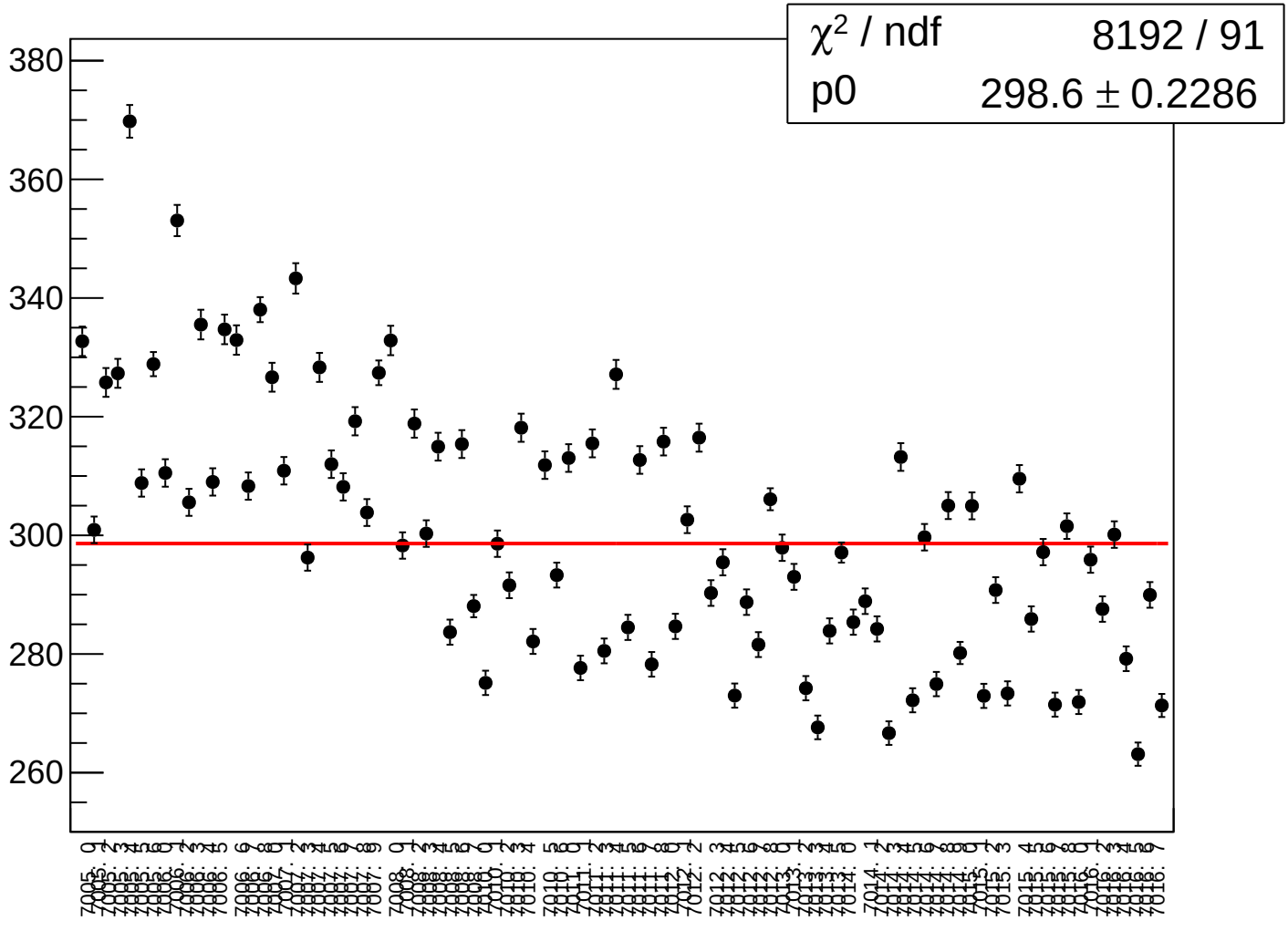

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.99 / 91
p0 −309.1 ± 334.3
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 4.641
Std Dev 71.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

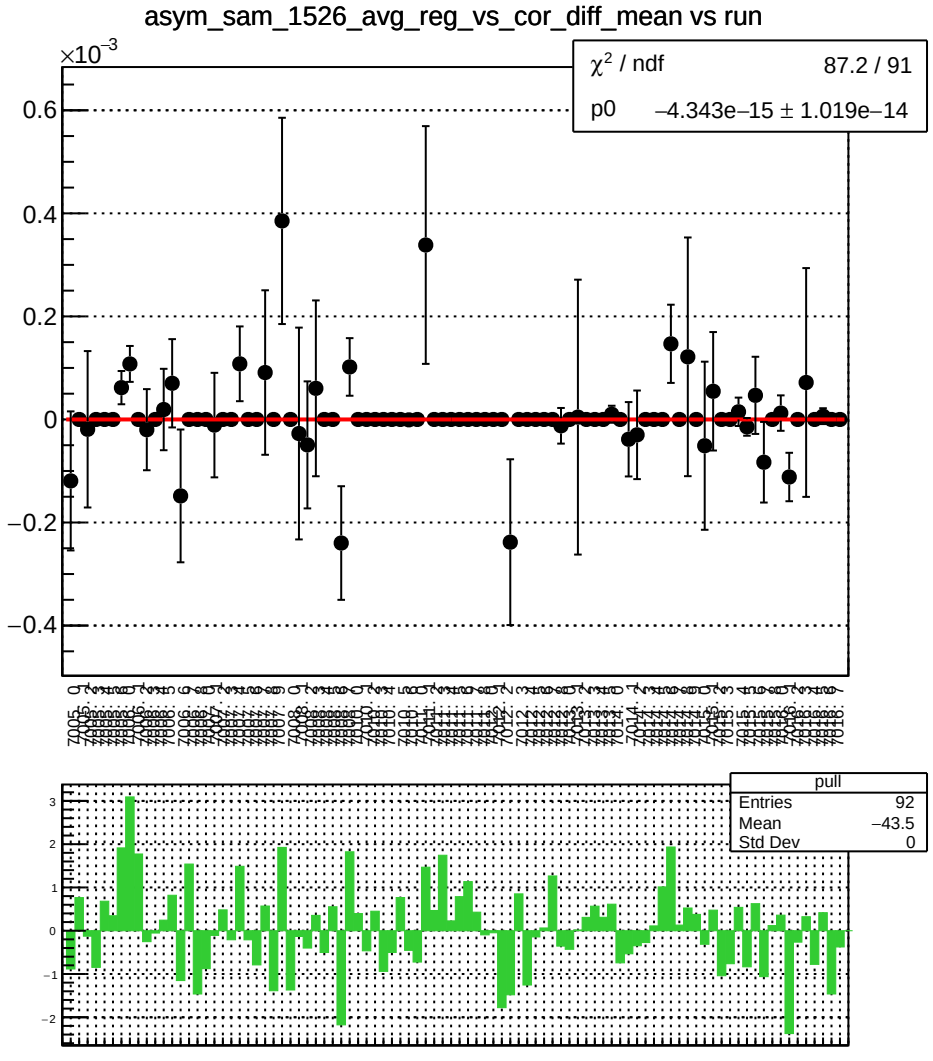

pull1D
Entries 92
Mean 0.01176
Std Dev 0.9324
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

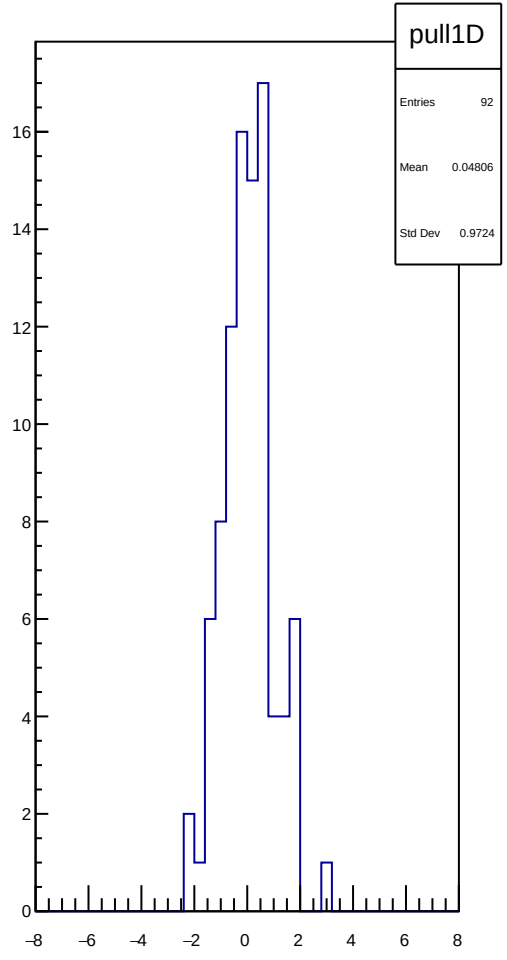

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 5649 / 91
p0 309.1 ± 0.2364
380
360
340
320
300
280

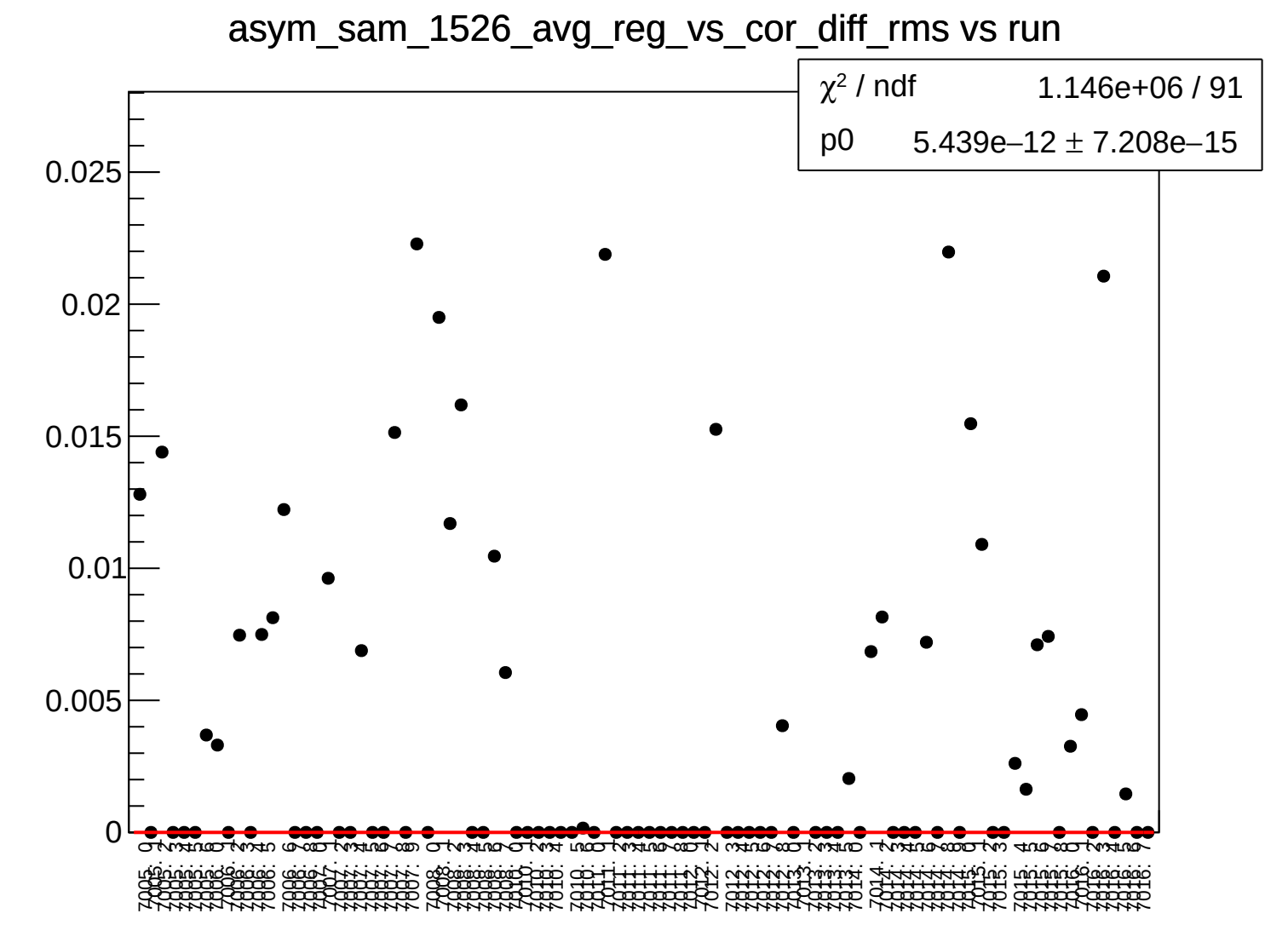

asym_sam_1526_avg_mean vs run
χ² / ndf 80.2 / 91
p0 188.2 ± 323.2
10000
5000
0
−5000
−10000
pull
Entries 92
Mean 5.718
Std Dev 76.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

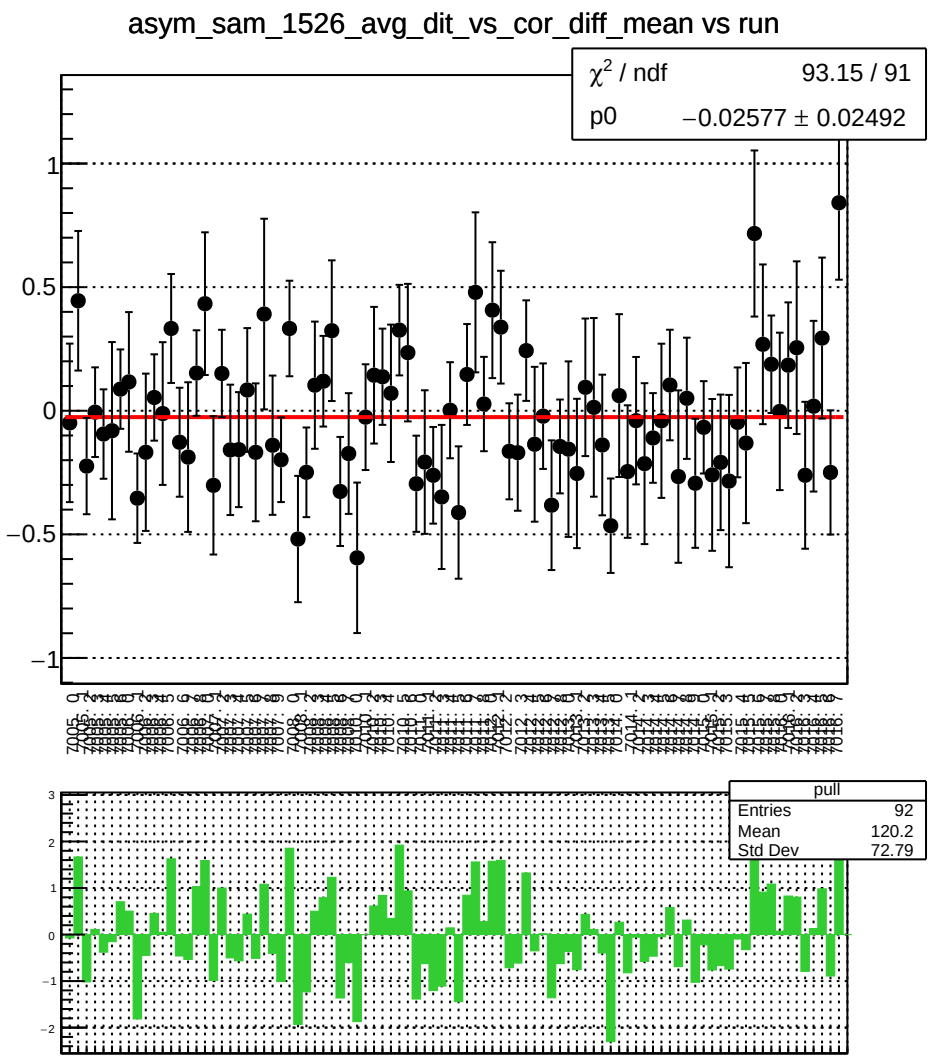

pull1D
Entries 92
Mean −0.01038
Std Dev 0.9336
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

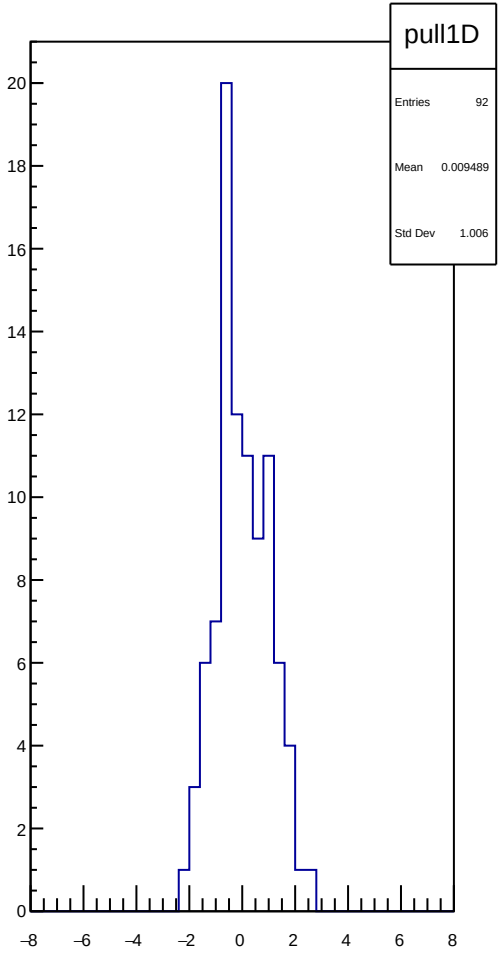

asym_sam_1526_avg_rms vs run
χ² / ndf 8192 / 91
p0 298.6 ± 0.2286
380
360
340
320
300
280
260

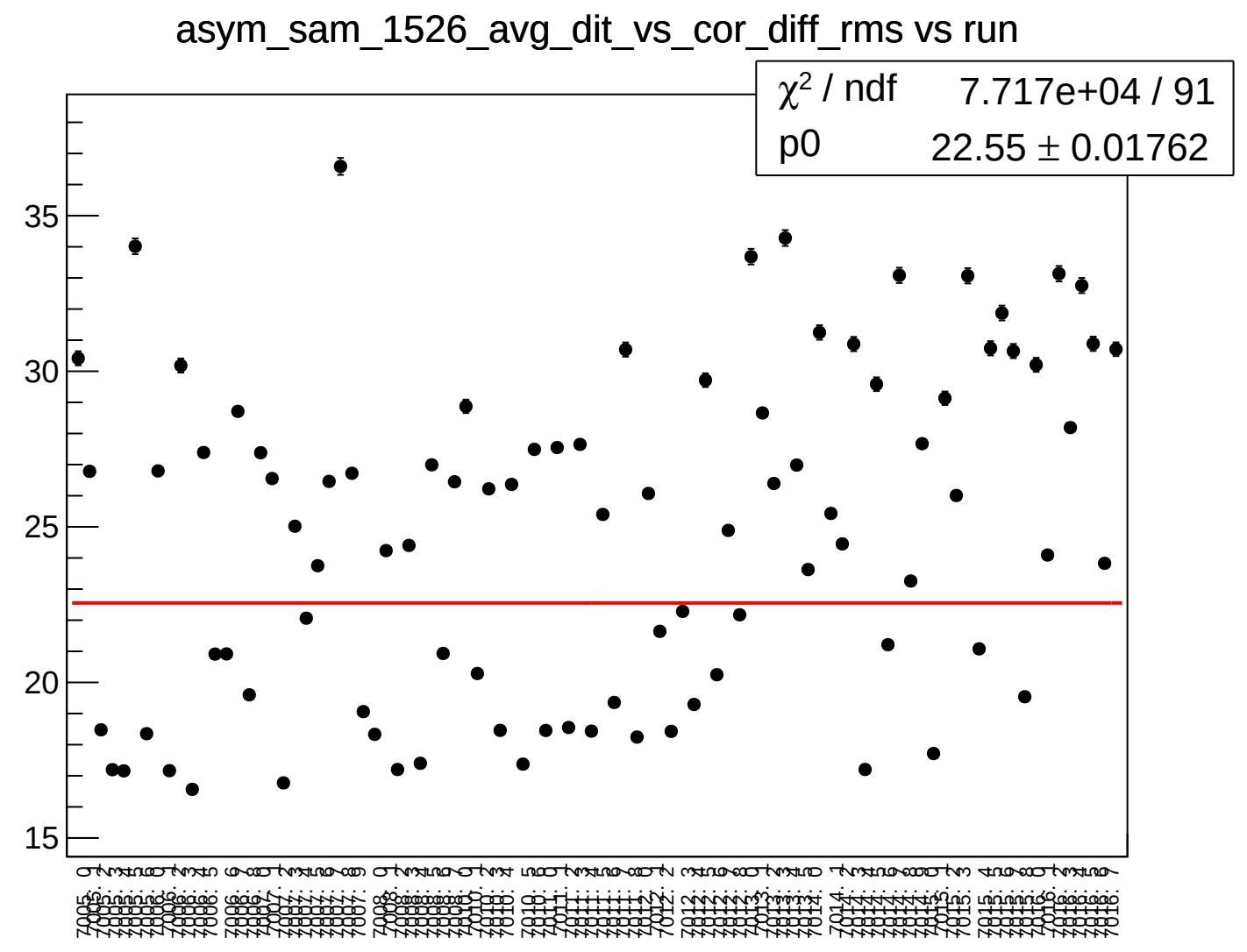

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 87.2 / 91
p0 −4.343e−15 ± 1.019e−14
pull
Entries 92
Mean −43.5
Std Dev 0

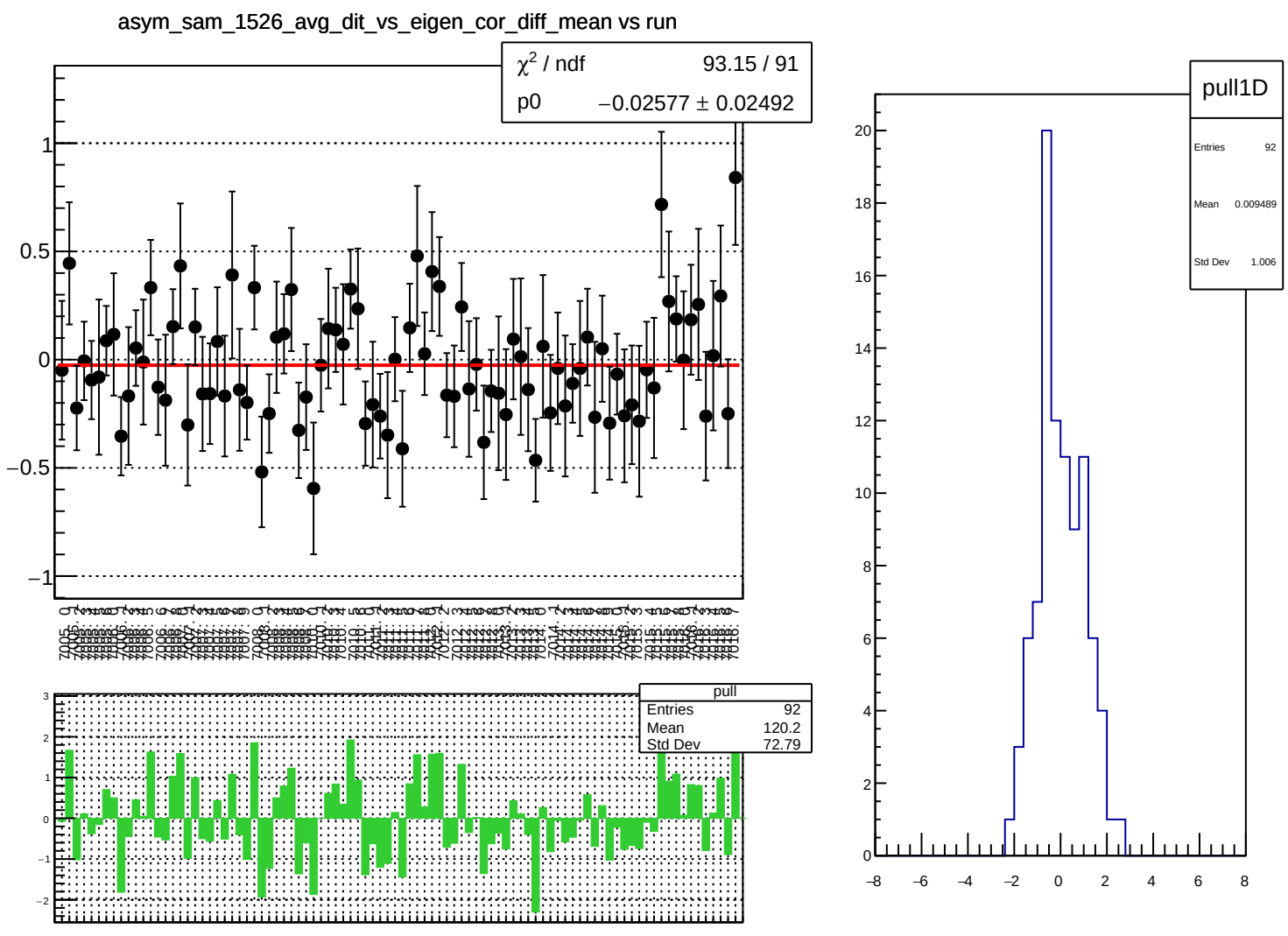

pull1D
Entries 92
Mean 0.04806
Std Dev 0.9724

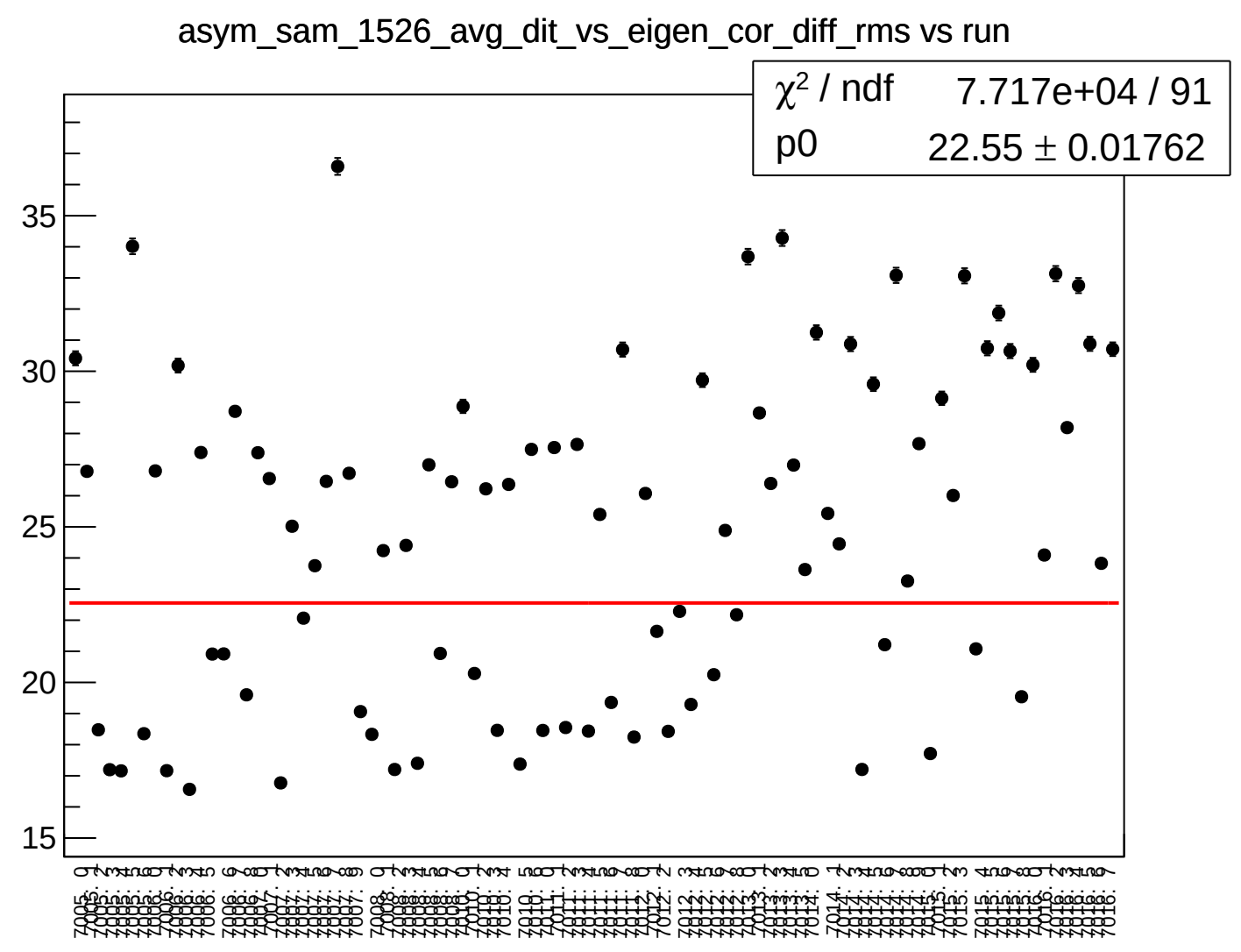

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.146e+06 / 91
p0 5.439e−12 ± 7.208e−15
0.025
0.02
0.015
0.01
0.005
0

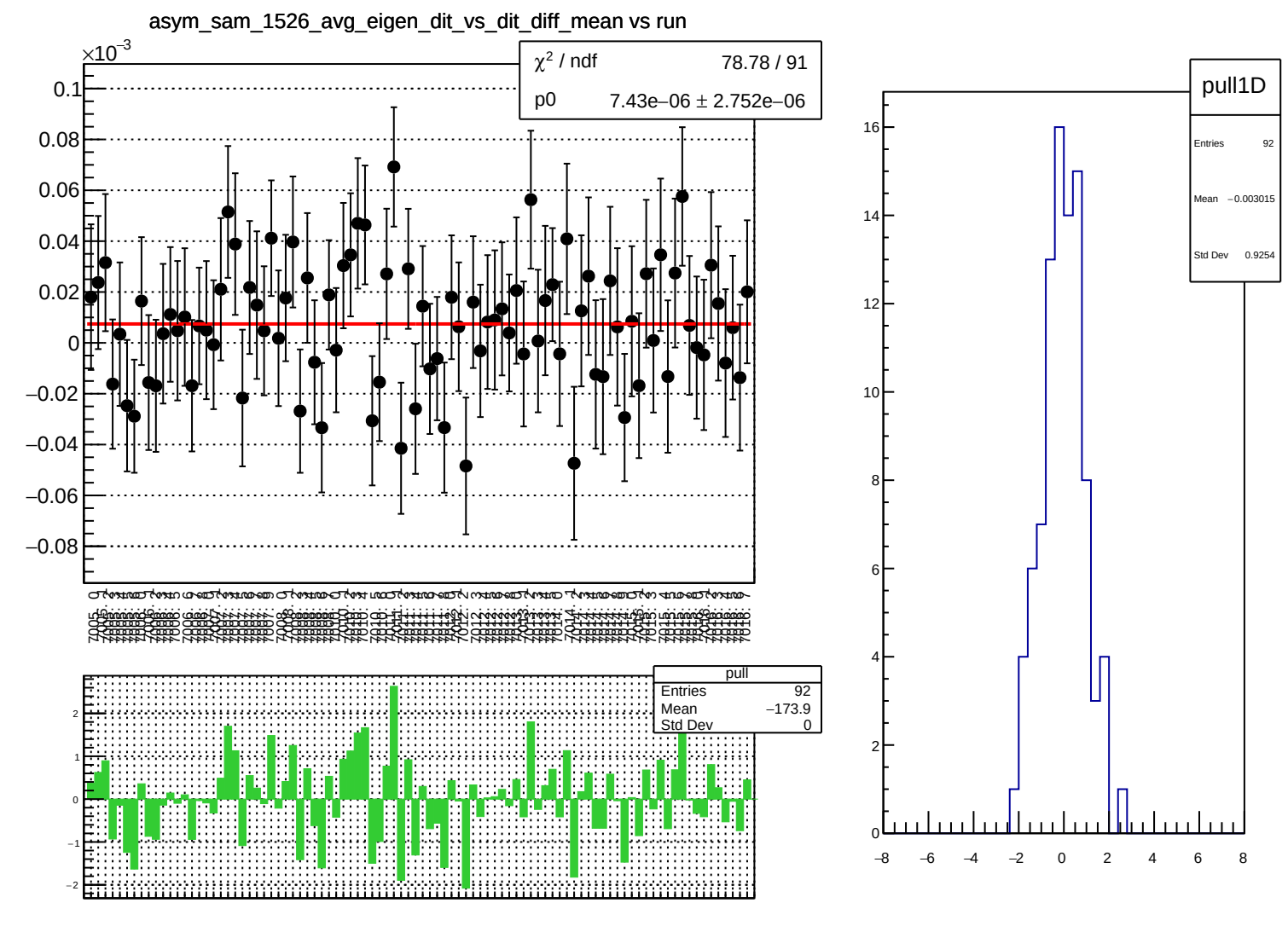

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.15 / 91
p0 −0.02577 ± 0.02492
pull
Entries 92
Mean 120.2
Std Dev 72.79

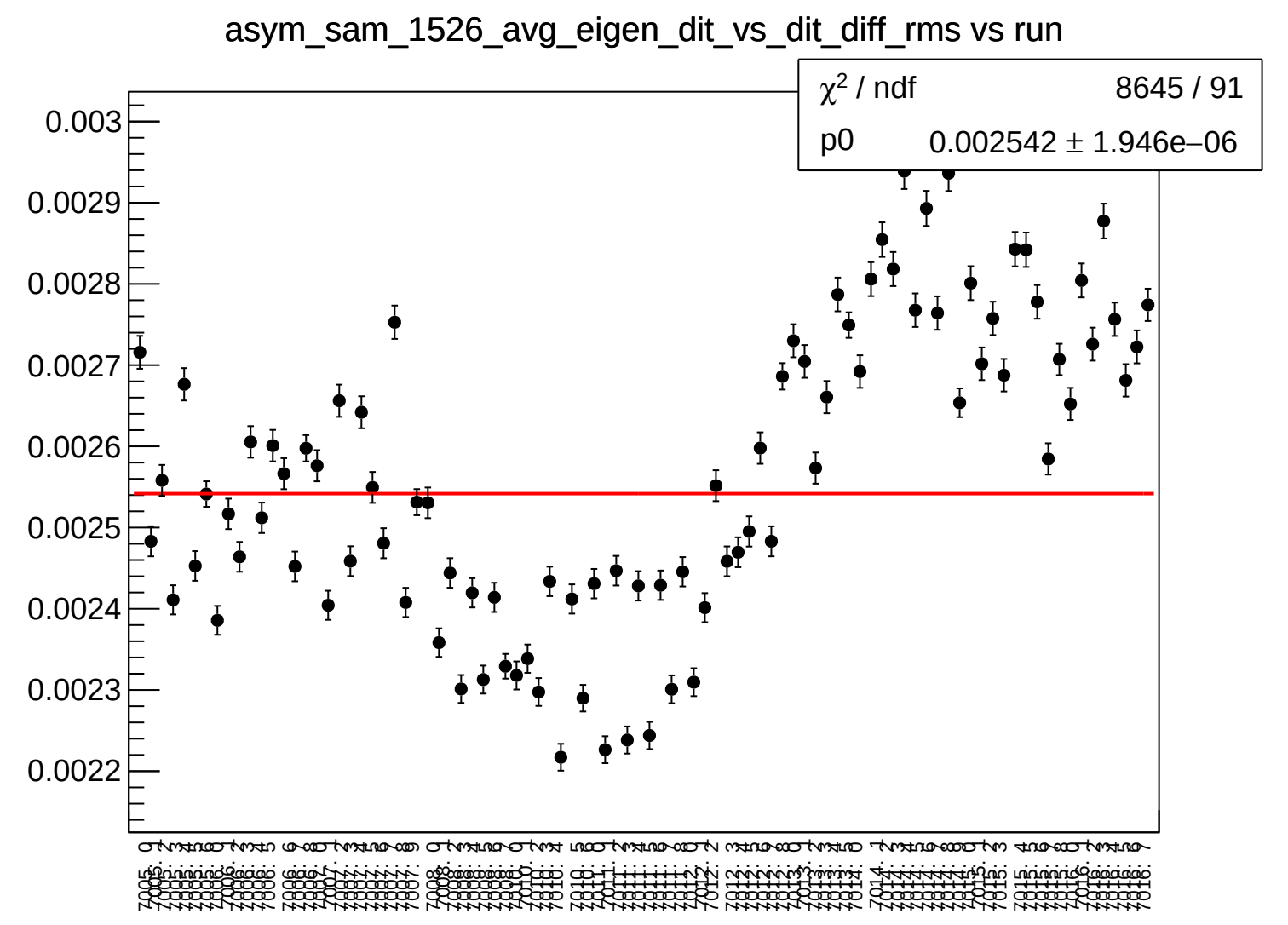

pull1D
Entries 92
Mean 0.009489
Std Dev 1.006

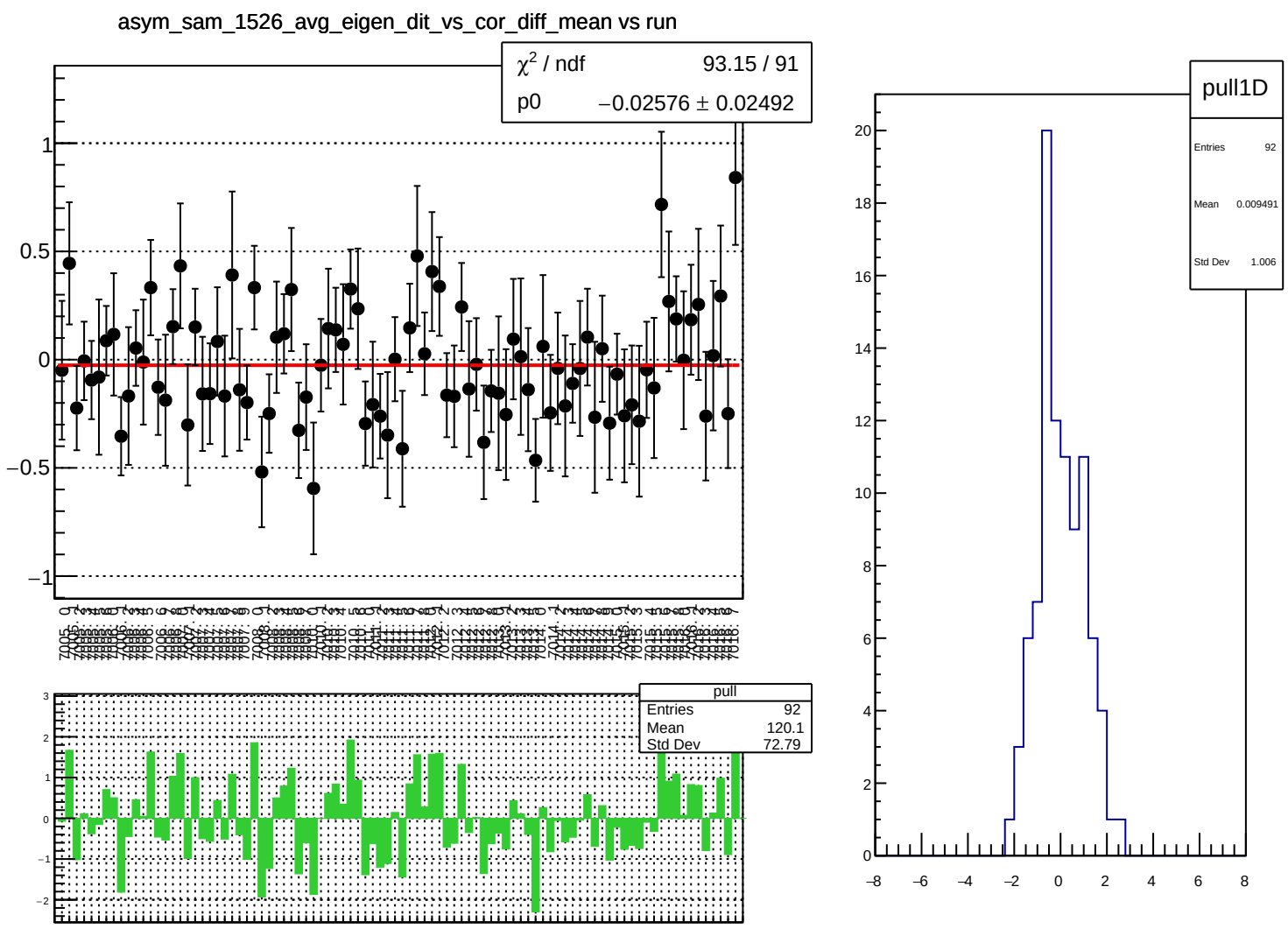

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.717e+04 / 91
p0 22.55 ± 0.01762
35
30
25
20
15

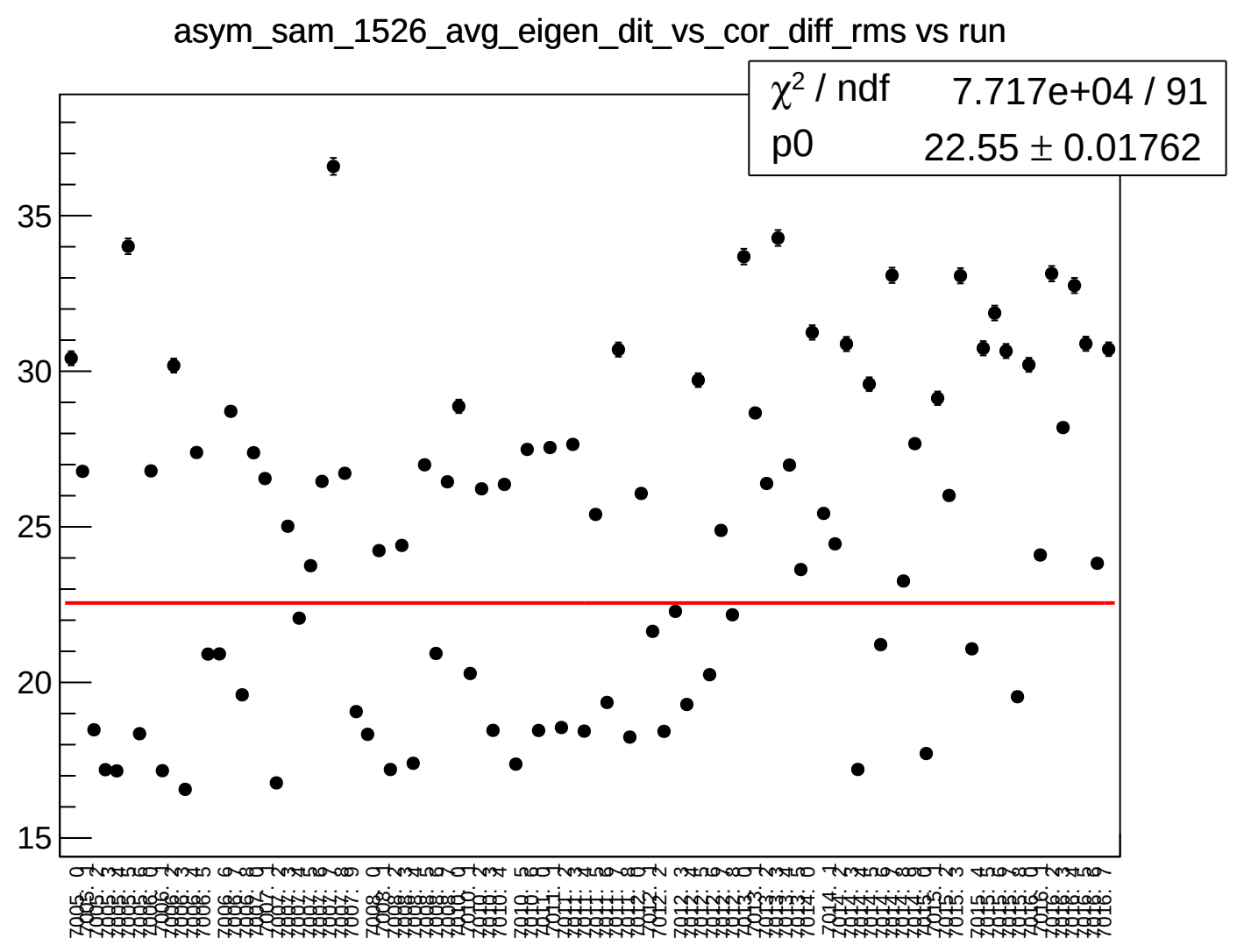

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.15 / 91
p0 −0.02577 ± 0.02492
pull
Entries 92
Mean 120.2
Std Dev 72.79
pull1D
Entries 92
Mean 0.009489
Std Dev 1.006

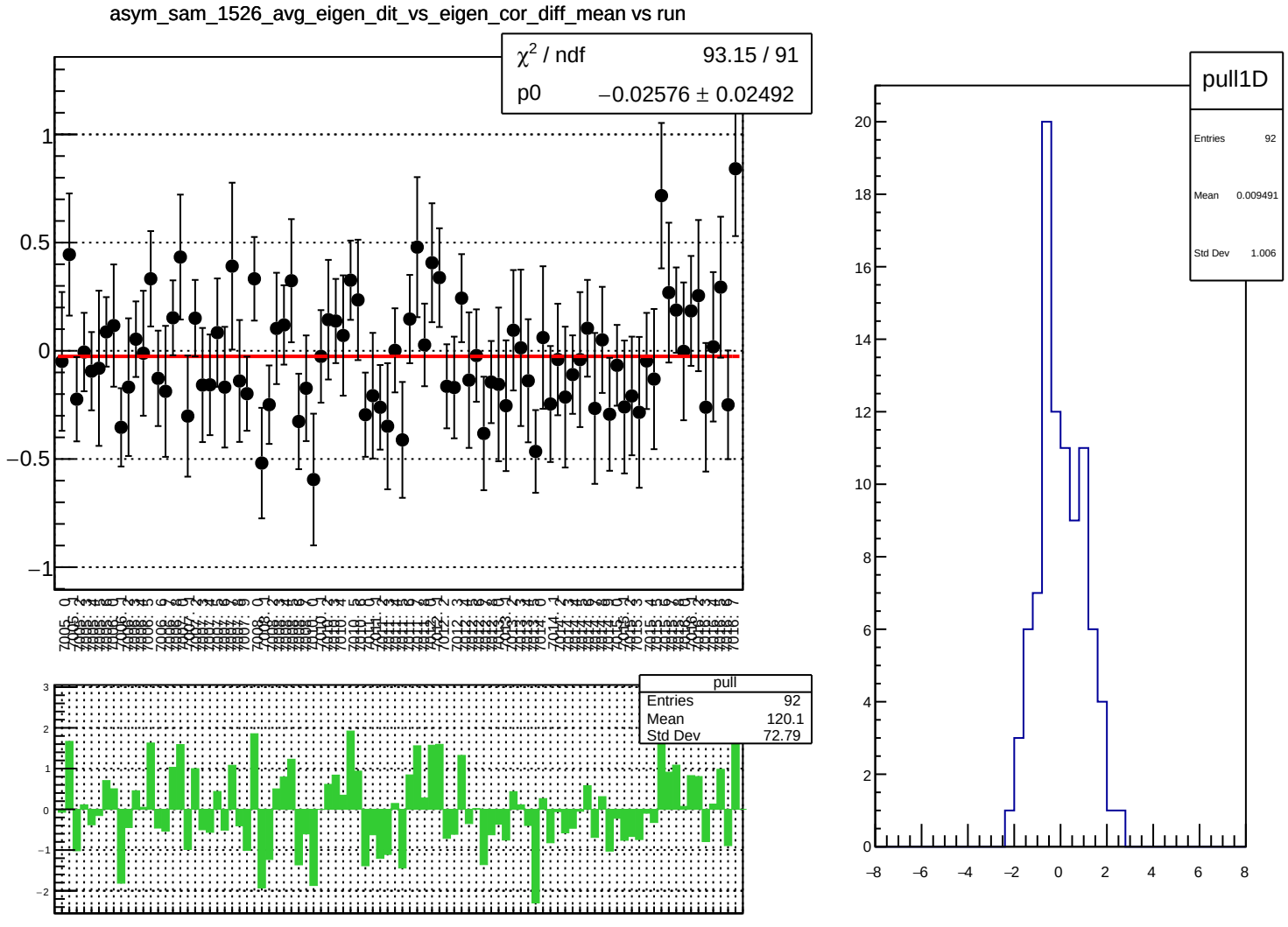

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.717e+04 / 91
p0 22.55 ± 0.01762
35
30
25
20
15

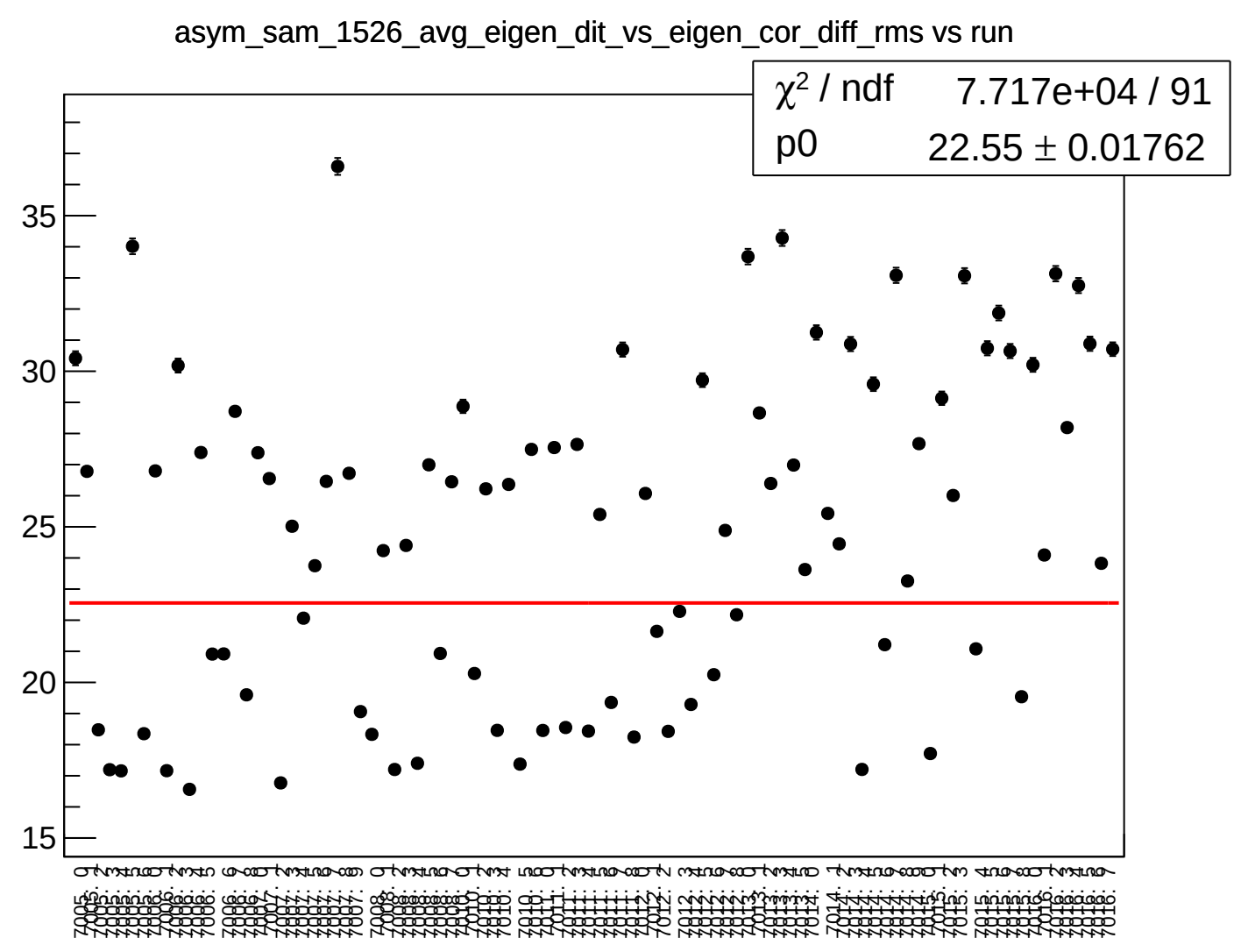

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.78 / 91
p0 7.43e−06 ± 2.752e−06
pull
Entries 92
Mean −173.9
Std Dev 0
pull1D
Entries 92
Mean −0.003015
Std Dev 0.9254

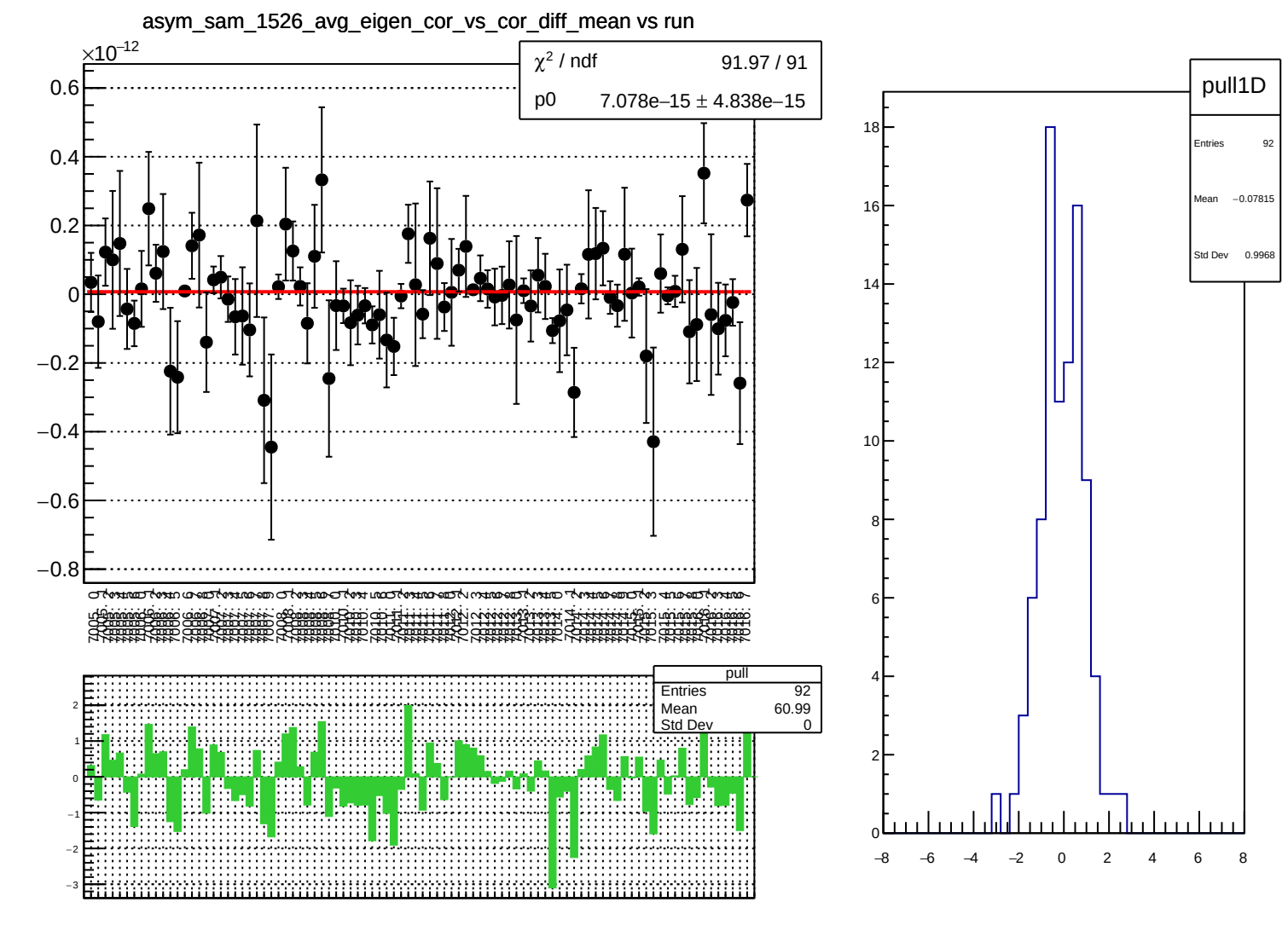

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8645 / 91
p0 0.002542 ± 1.946e−06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

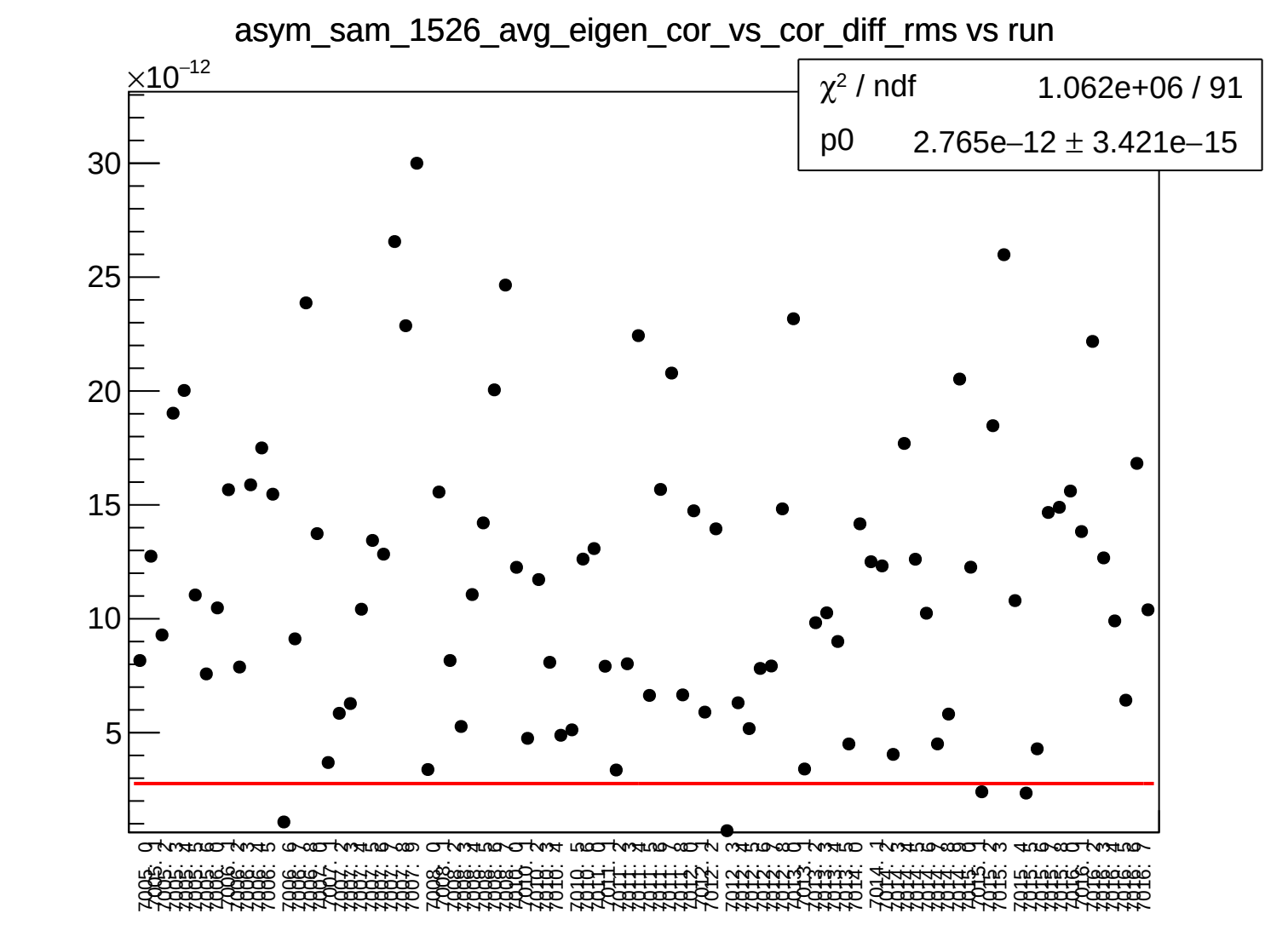

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.15 / 91
p0 −0.02576 ± 0.02492
pull
Entries 92
Mean 120.1
Std Dev 72.79
pull1D
Entries 92
Mean 0.009491
Std Dev 1.006

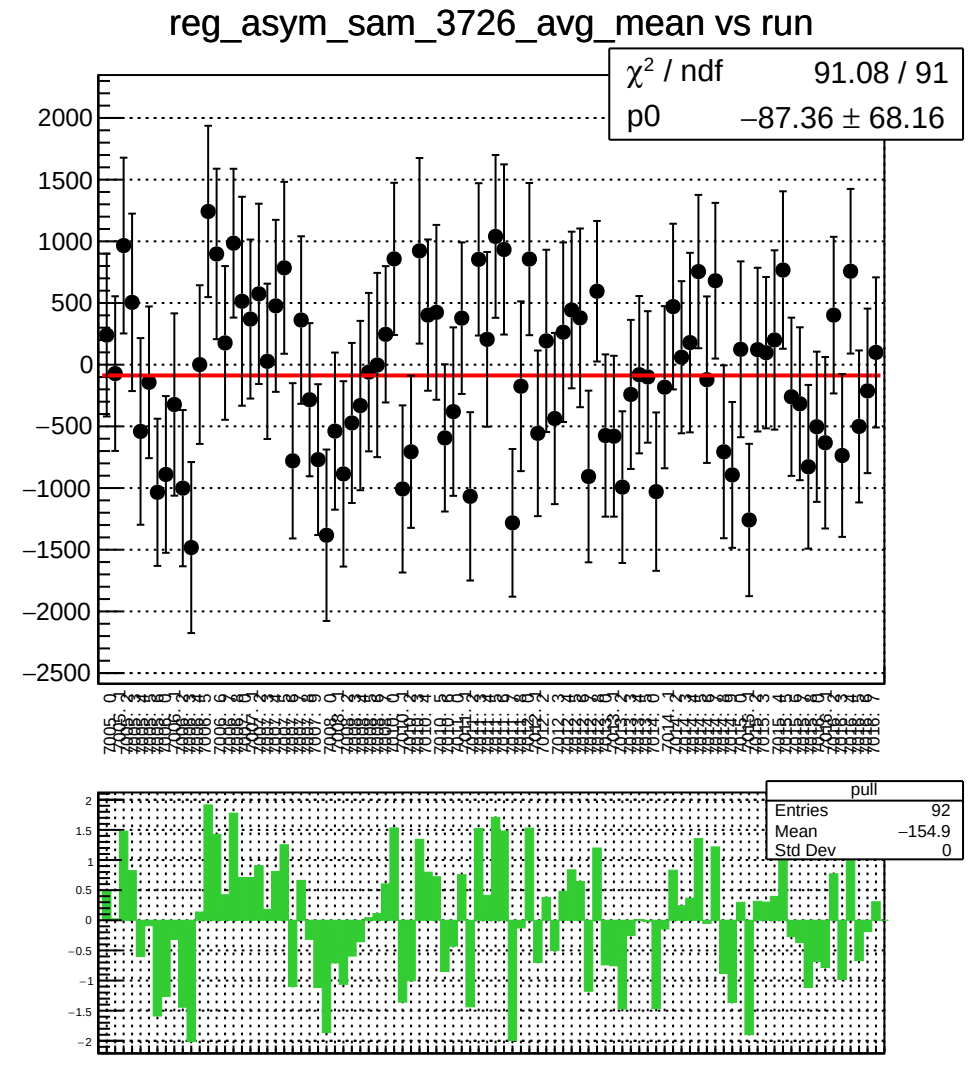

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.717e+04 / 91
p0 22.55 ± 0.01762
35
30
25
20
15

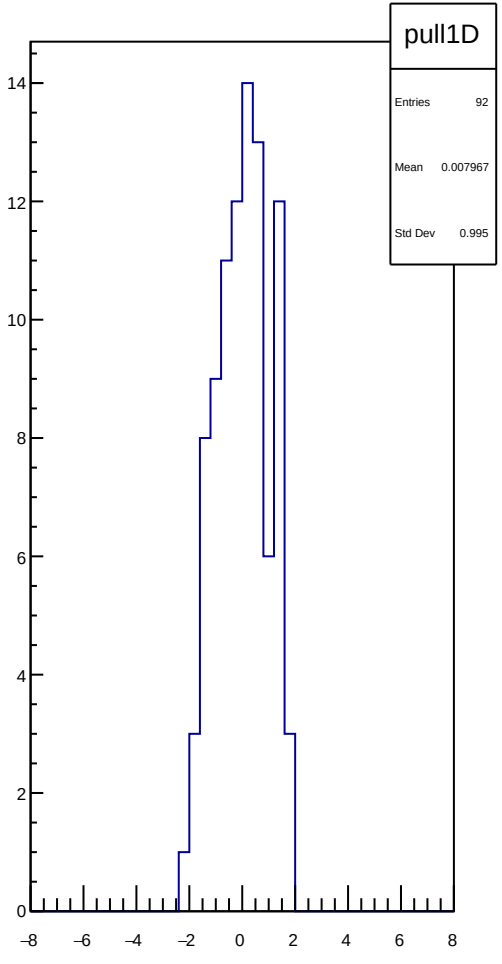

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.15 / 91
p0 −0.02576 ± 0.02492
pull
Entries 92
Mean 120.1
Std Dev 72.79
pull1D
Entries 92
Mean 0.009491
Std Dev 1.006

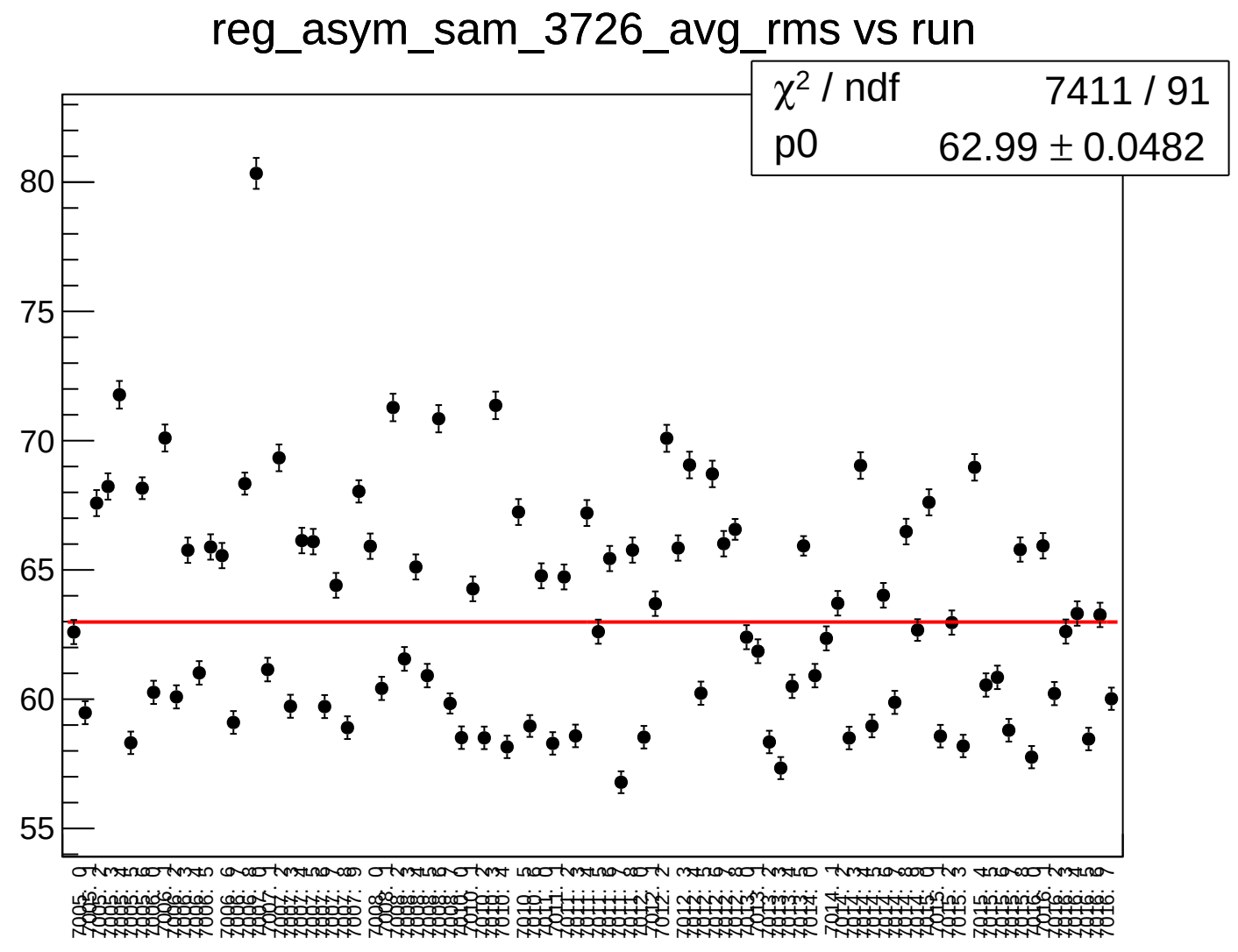

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.717e+04 / 91
p0 22.55 ± 0.01762
35
30
25
20
15

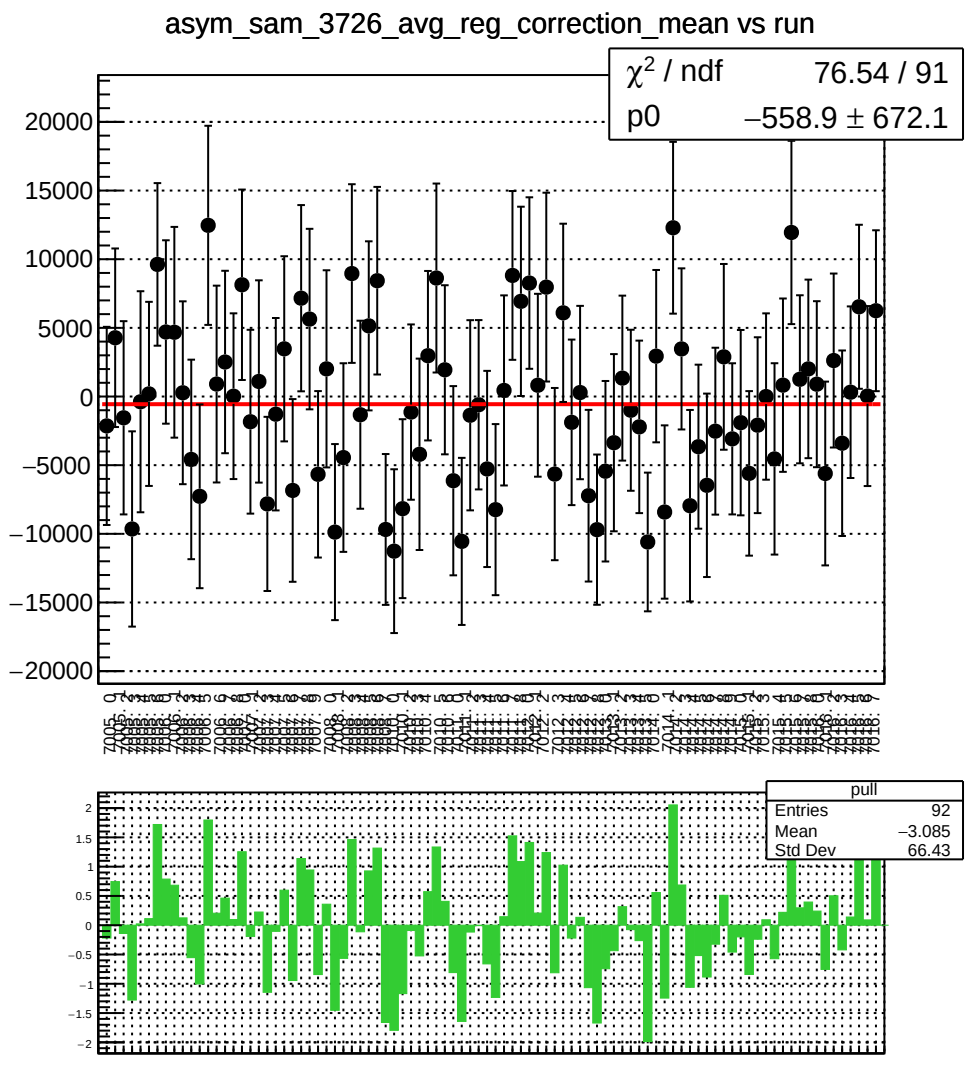

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.97 / 91
p0 7.078e−15 ± 4.838e−15
pull
Entries 92
Mean 60.99
Std Dev 0
pull1D
Entries 92
Mean −0.07815
Std Dev 0.9968

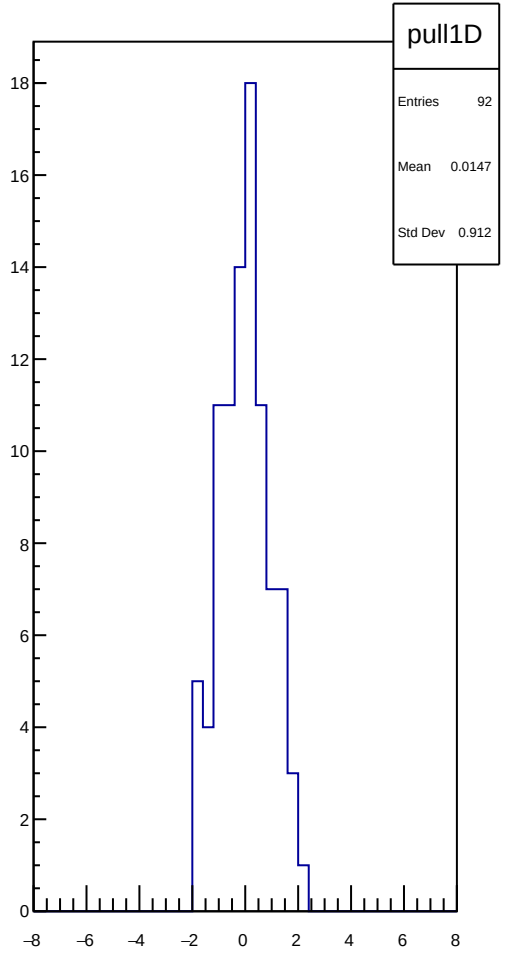

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.062e+06 / 91
p0 2.765e−12 ± 3.421e−15
30
25
20
15
10
5

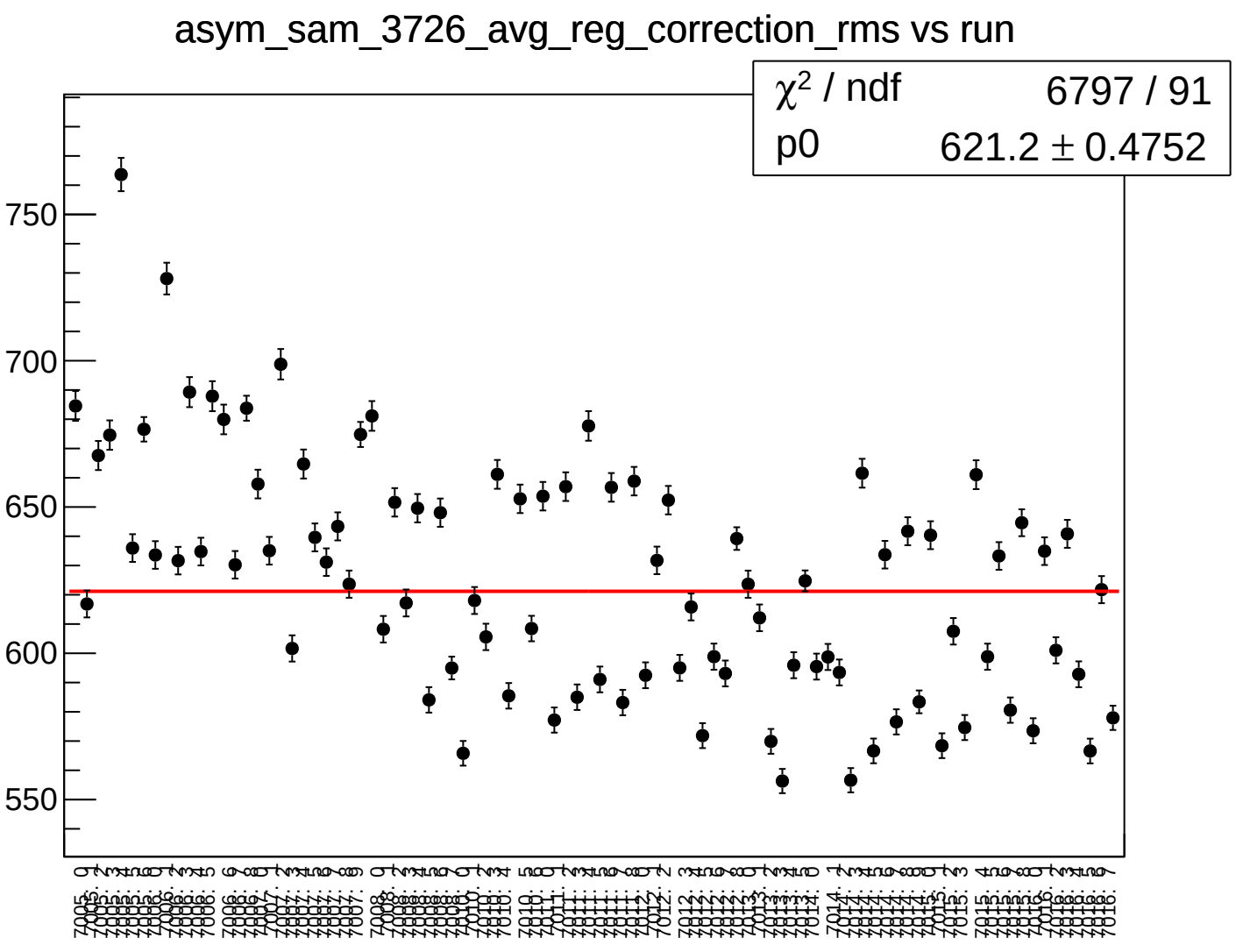

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 91.08 / 91
p0 −87.36 ± 68.16
pull
Entries 92
Mean −154.9
Std Dev 0

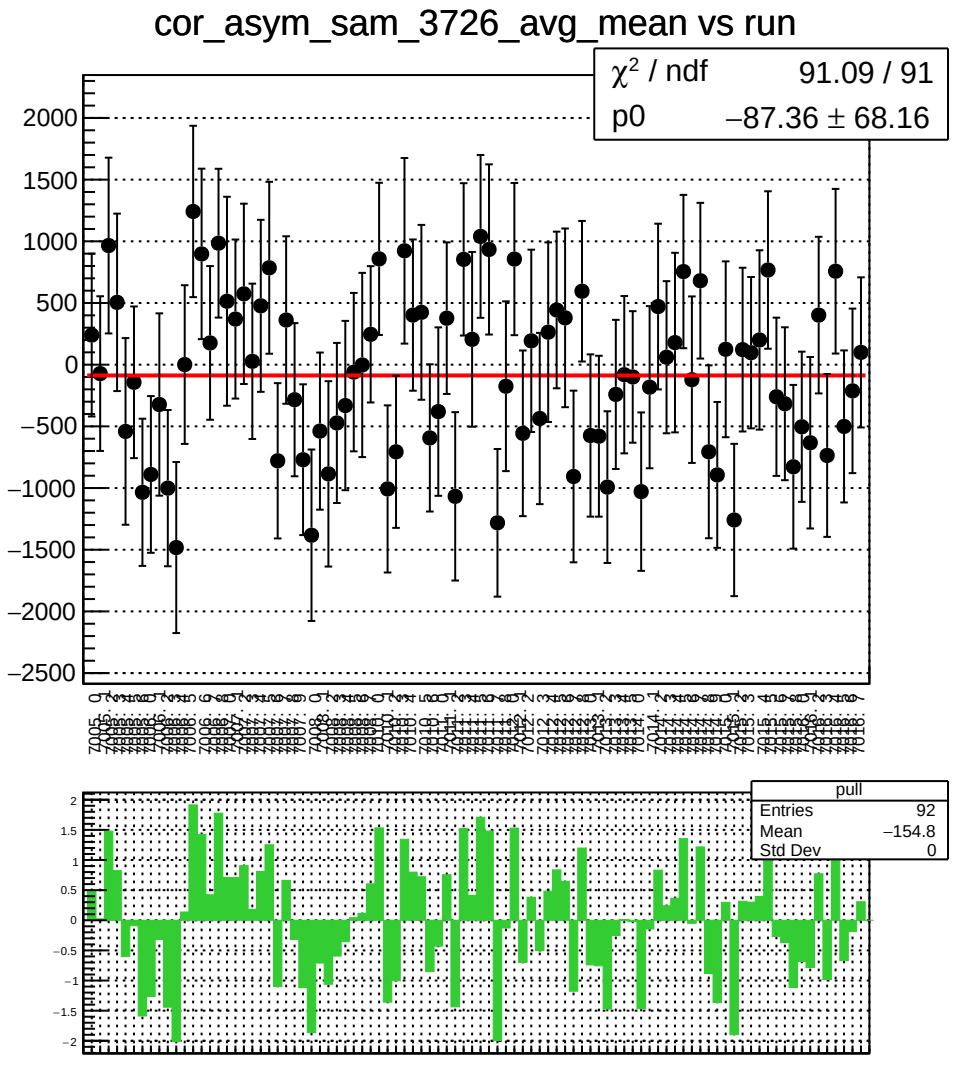

pull1D
Entries 92
Mean 0.007967
Std Dev 0.995

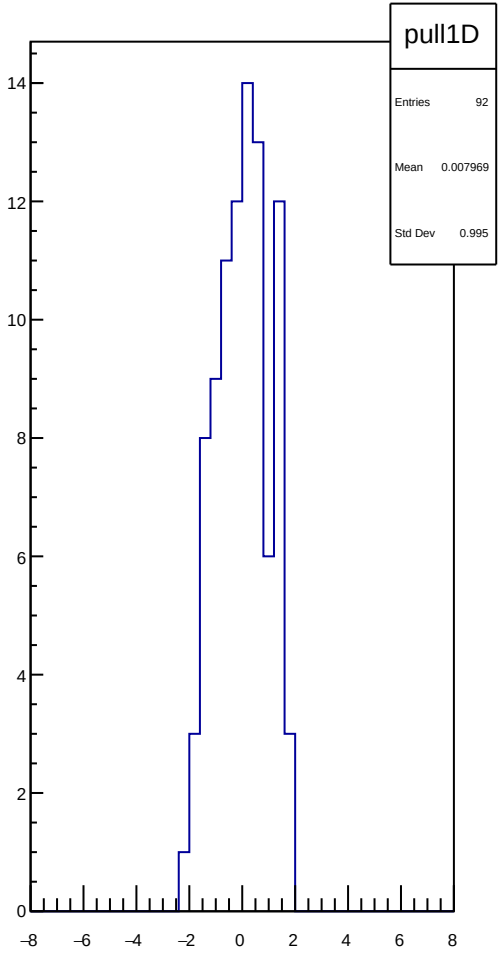

reg_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 7411 / 91
p0 62.99 ± 0.0482
80
75
70
65
60
55

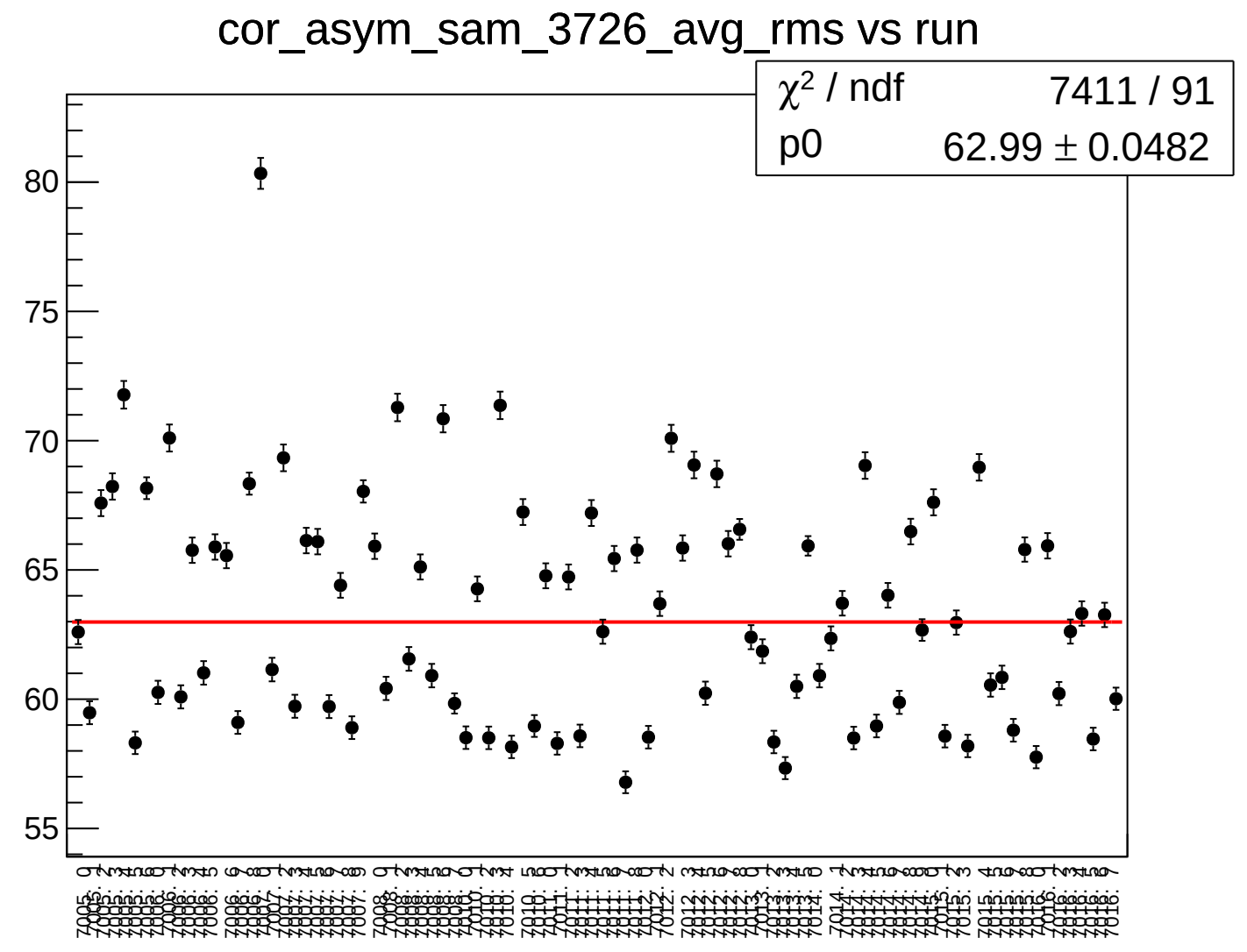

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 76.54 / 91
p0 −558.9 ± 672.1
pull
Entries 92
Mean −3.085
Std Dev 66.43

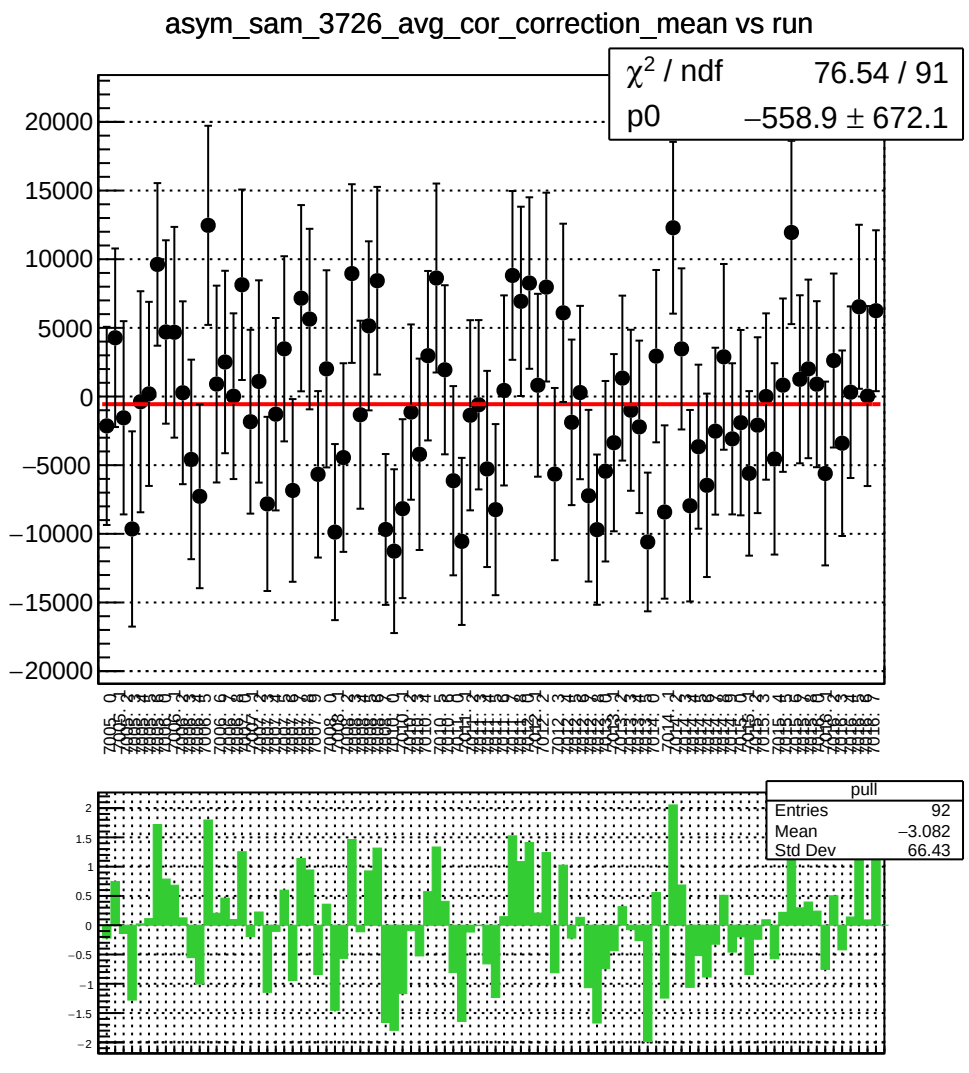

pull1D
Entries 92
Mean 0.0147
Std Dev 0.912

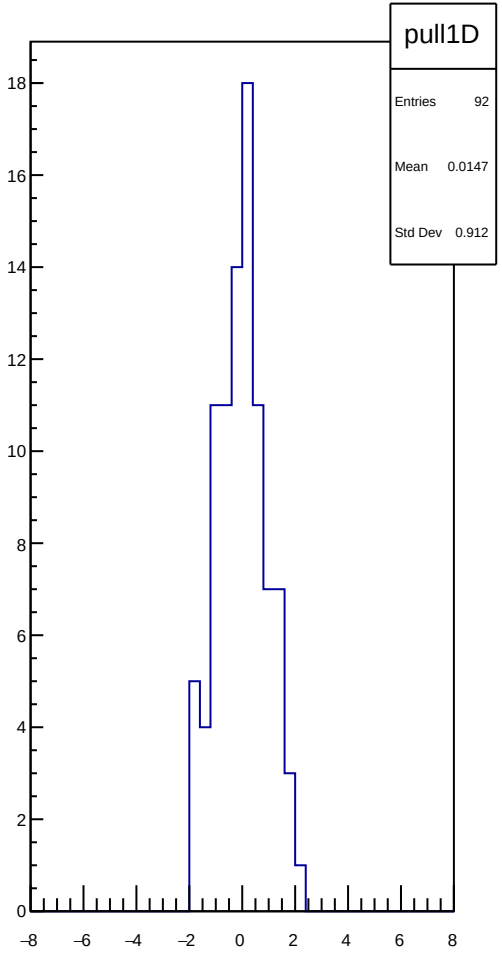

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 6797 / 91
p0 621.2 ± 0.4752
750
700
650
600
550

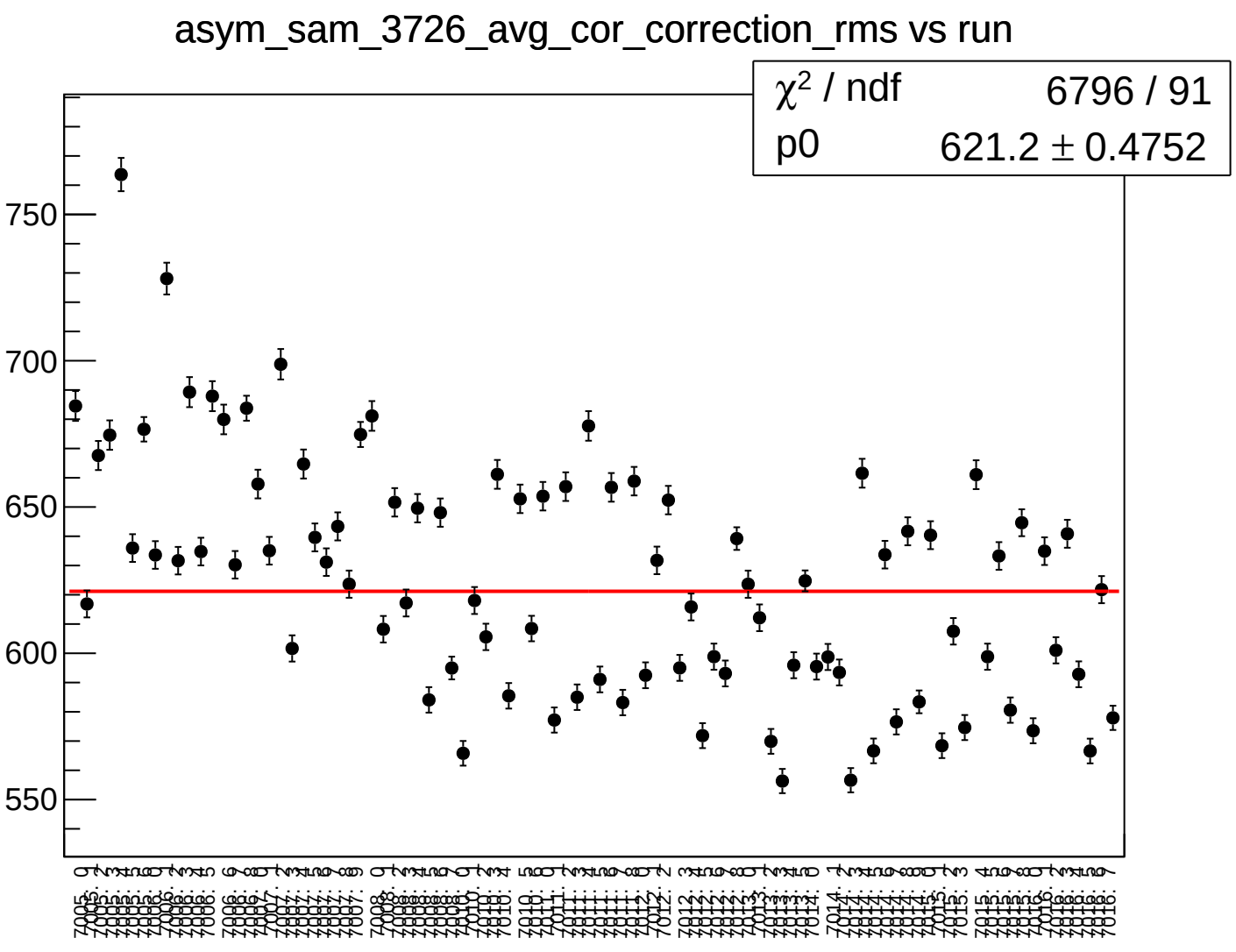

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 91.09 / 91
p0 −87.36 ± 68.16
pull
Entries 92
Mean −154.8
Std Dev 0

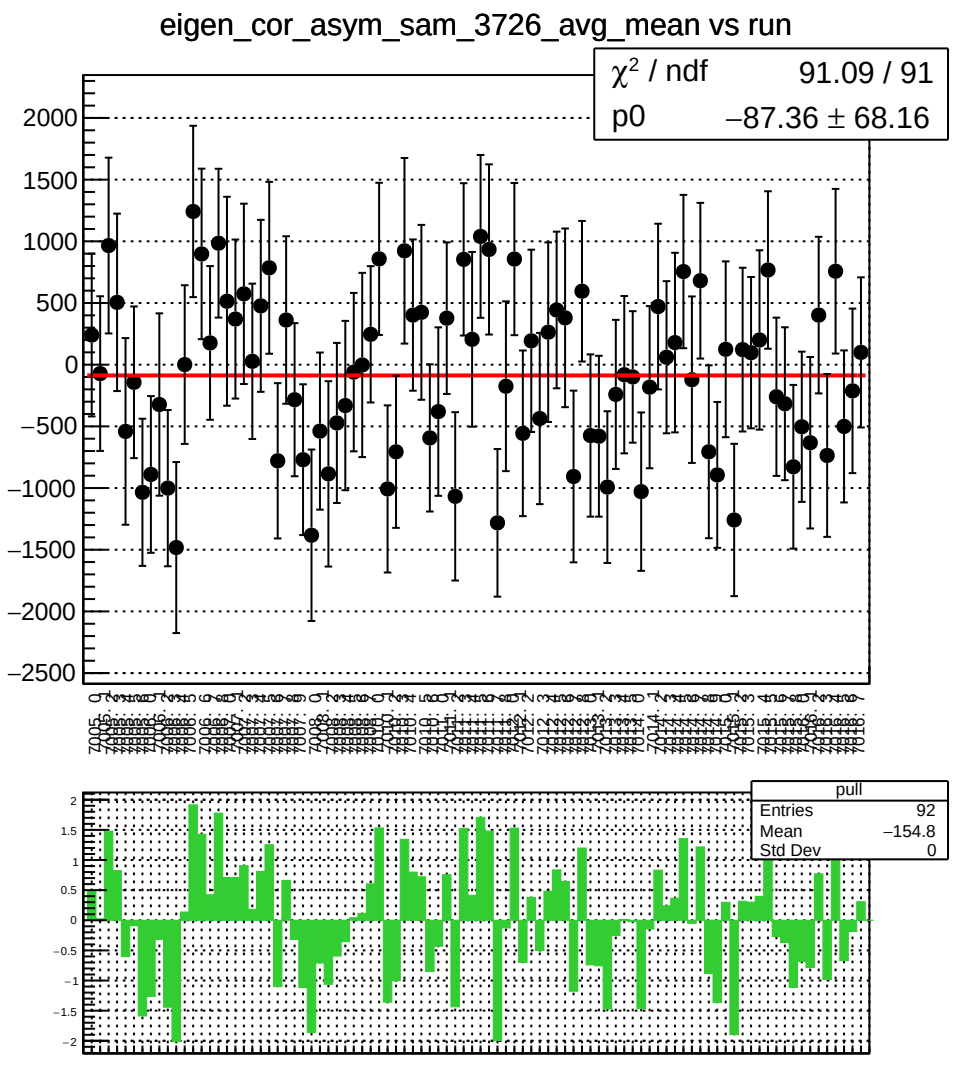

pull1D
Entries 92
Mean 0.007969
Std Dev 0.995

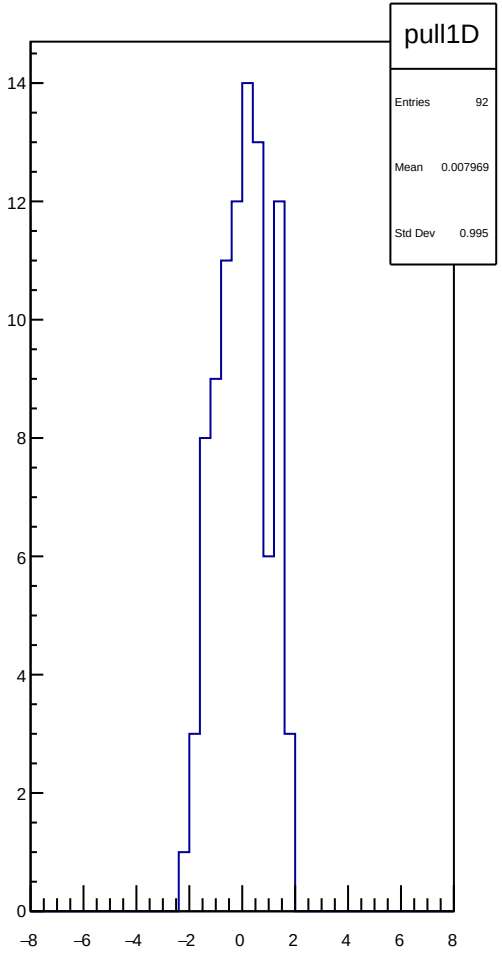

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 7411 / 91
p0 62.99 ± 0.0482
80
75
70
65
60
55

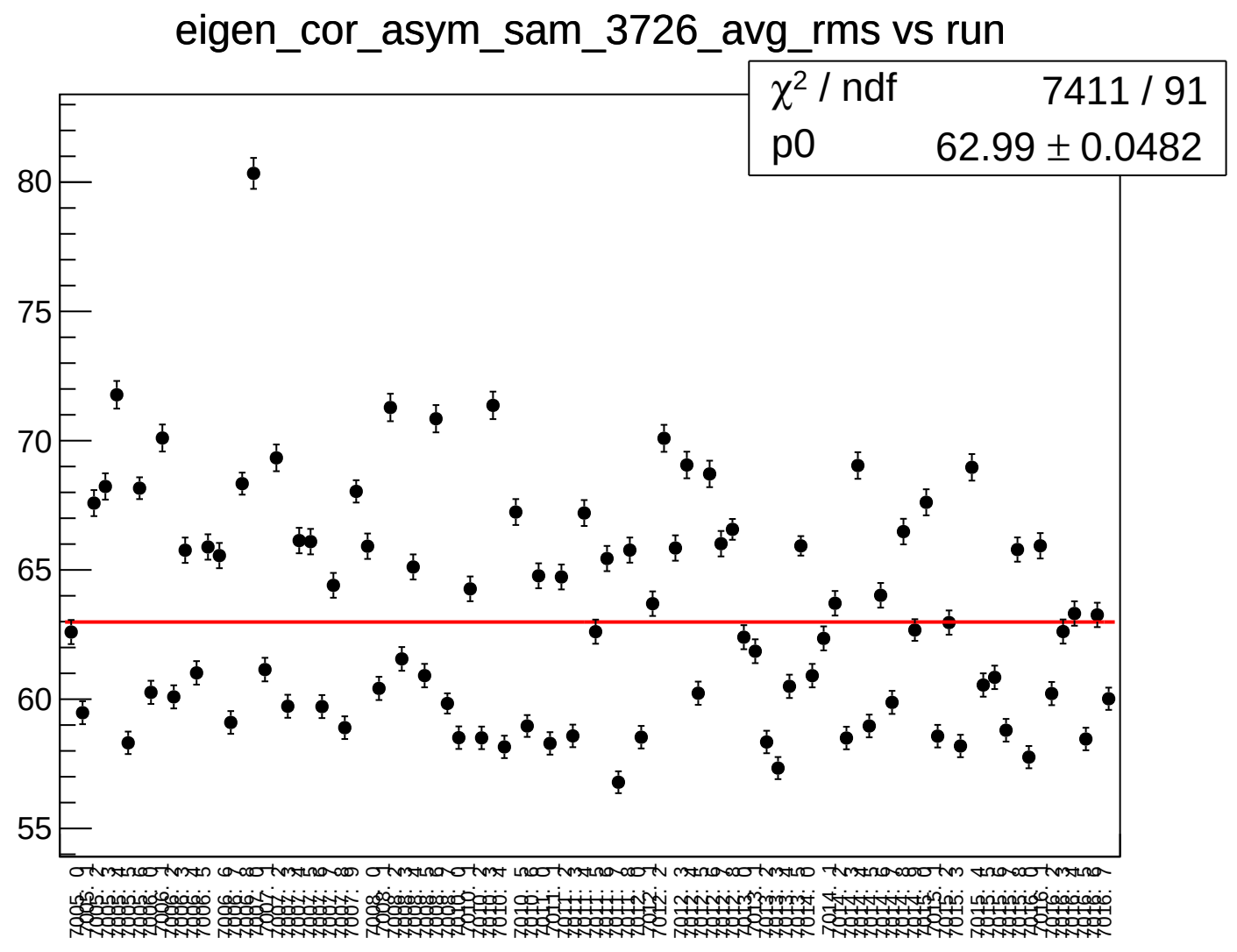

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 76.54 / 91
p0 −558.9 ± 672.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −3.082
Std Dev 66.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

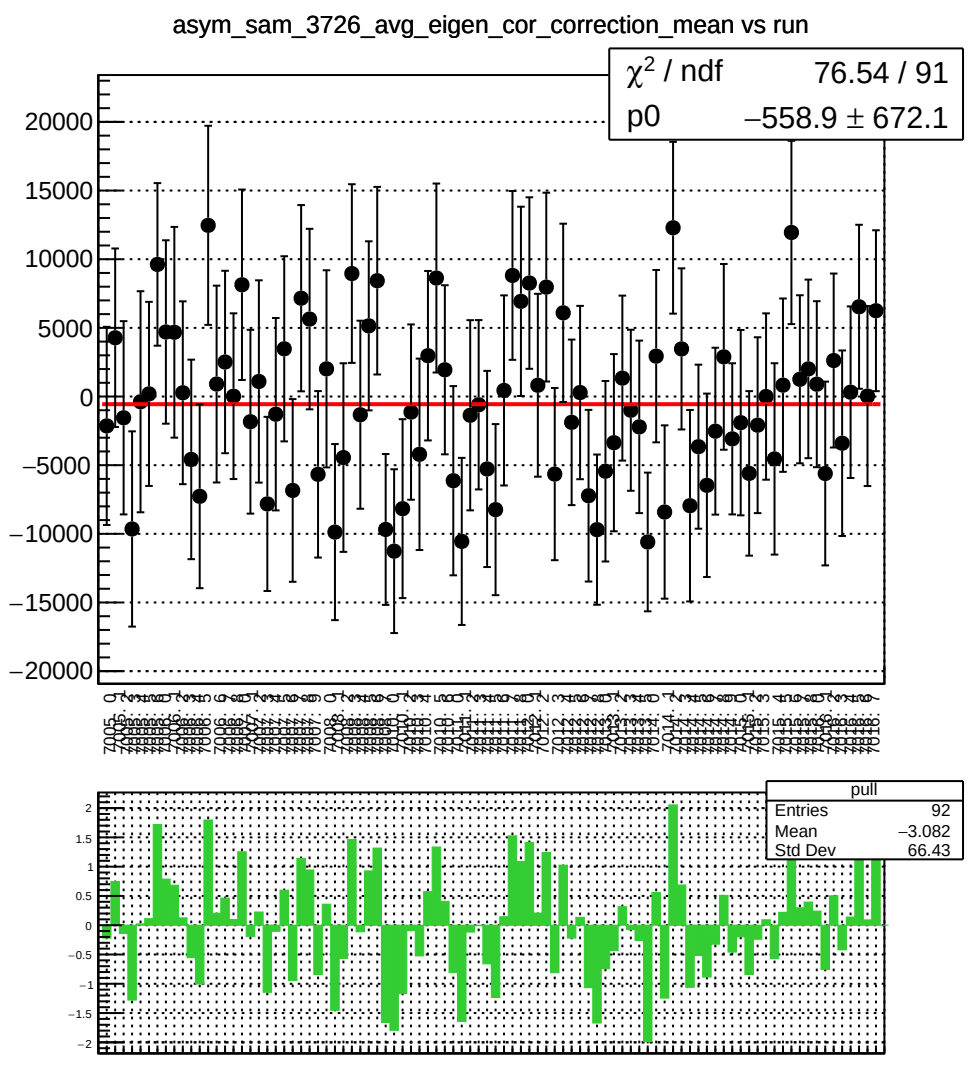

pull1D
Entries 92
Mean 0.0147
Std Dev 0.912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

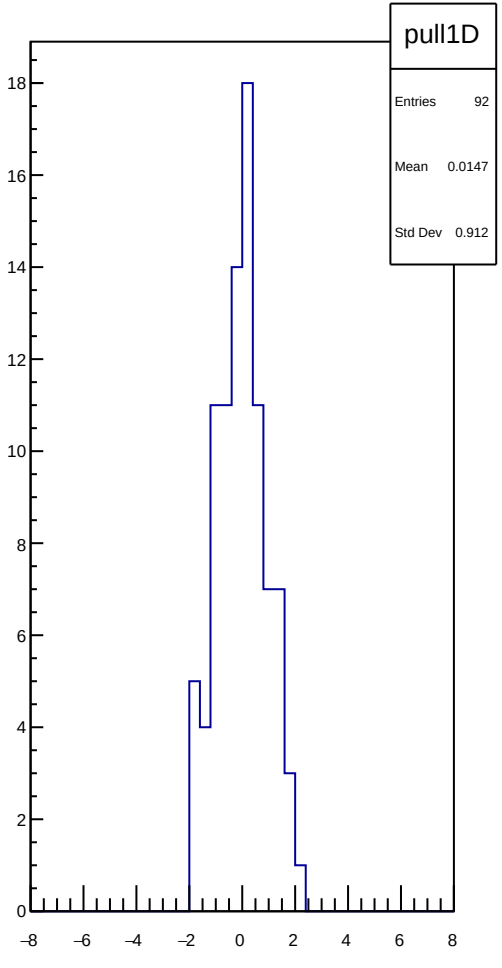

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 6796 / 91
p0 621.2 ± 0.4752
750
700
650
600
550

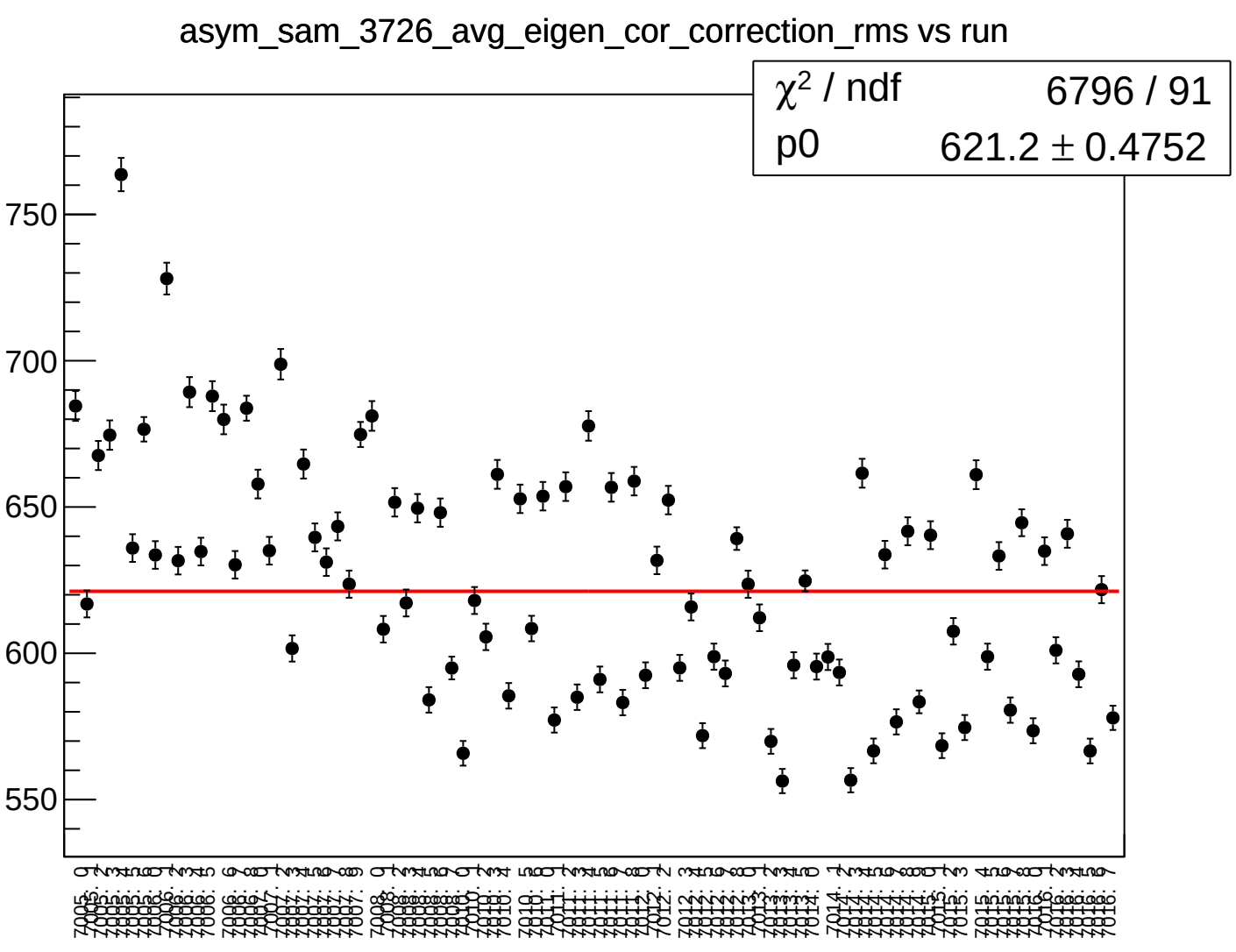

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 91.09 / 91
p0 −87.36 ± 68.16
pull
Entries 92
Mean −154.8
Std Dev 0

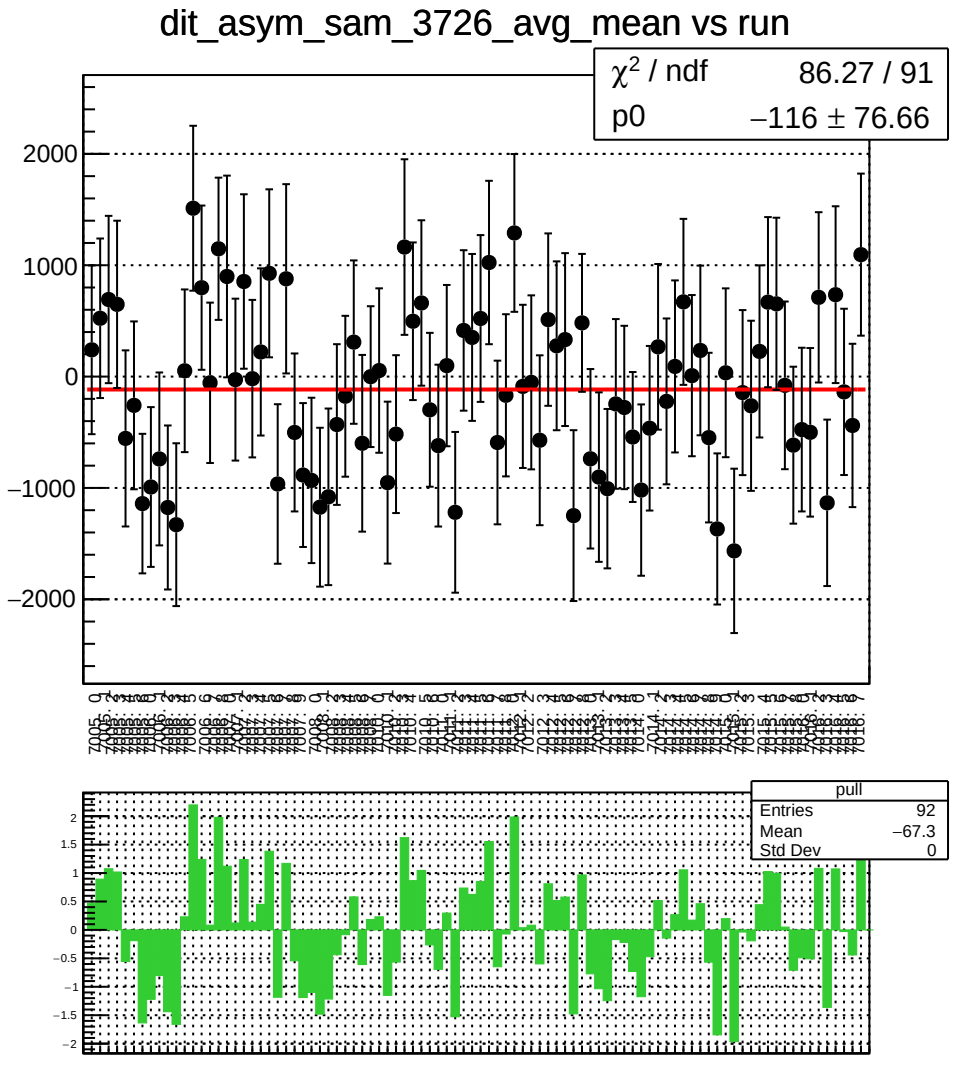

pull1D
Entries 92
Mean 0.007969
Std Dev 0.995

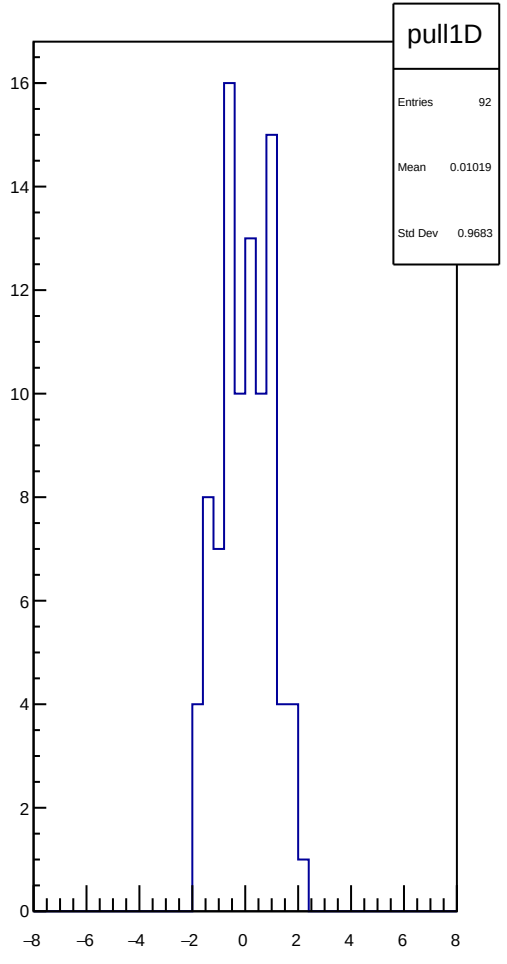

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 7411 / 91
p0 62.99 ± 0.0482
80
75
70
65
60
55

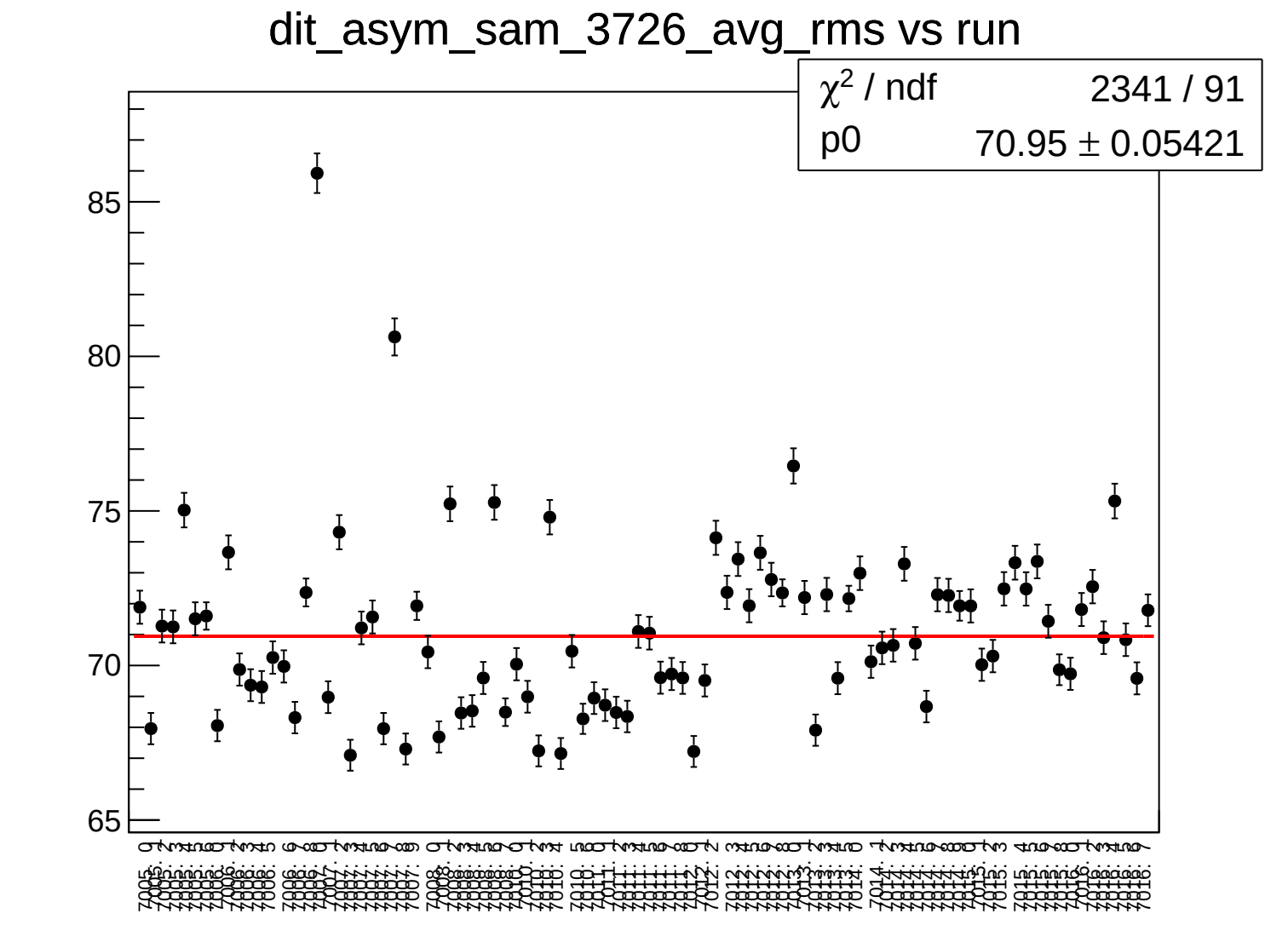

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.54 / 91
p0 −558.9 ± 672.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean −3.082
Std Dev 66.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

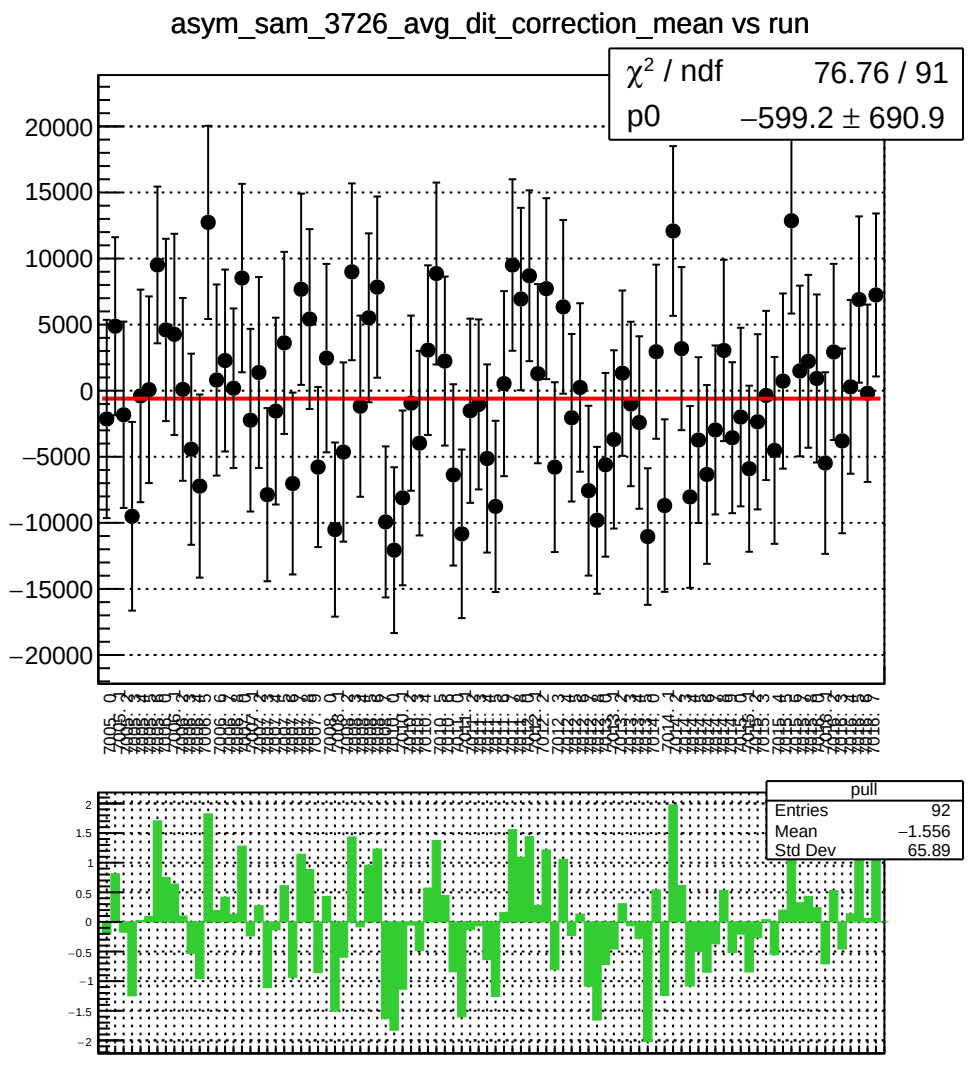

pull1D
Entries 92
Mean 0.0147
Std Dev 0.912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

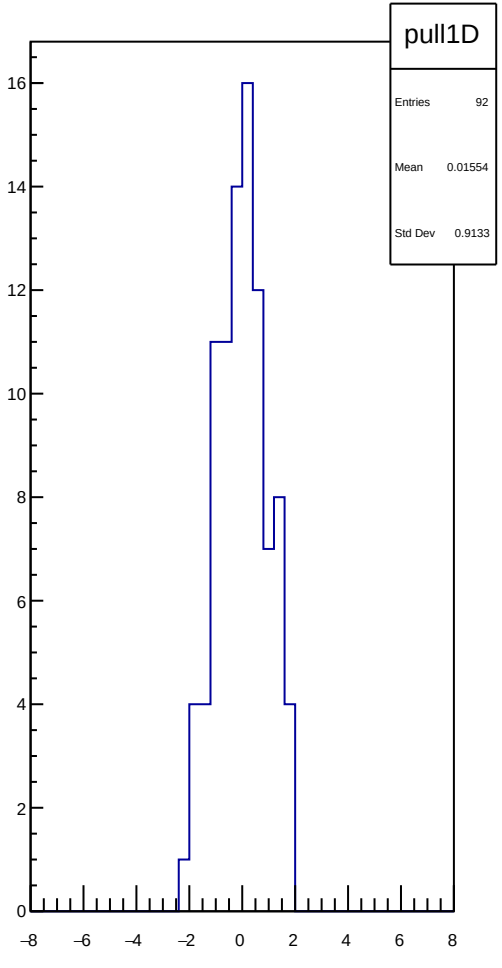

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 6796 / 91
p0 621.2 ± 0.4752
750
700
650
600
550

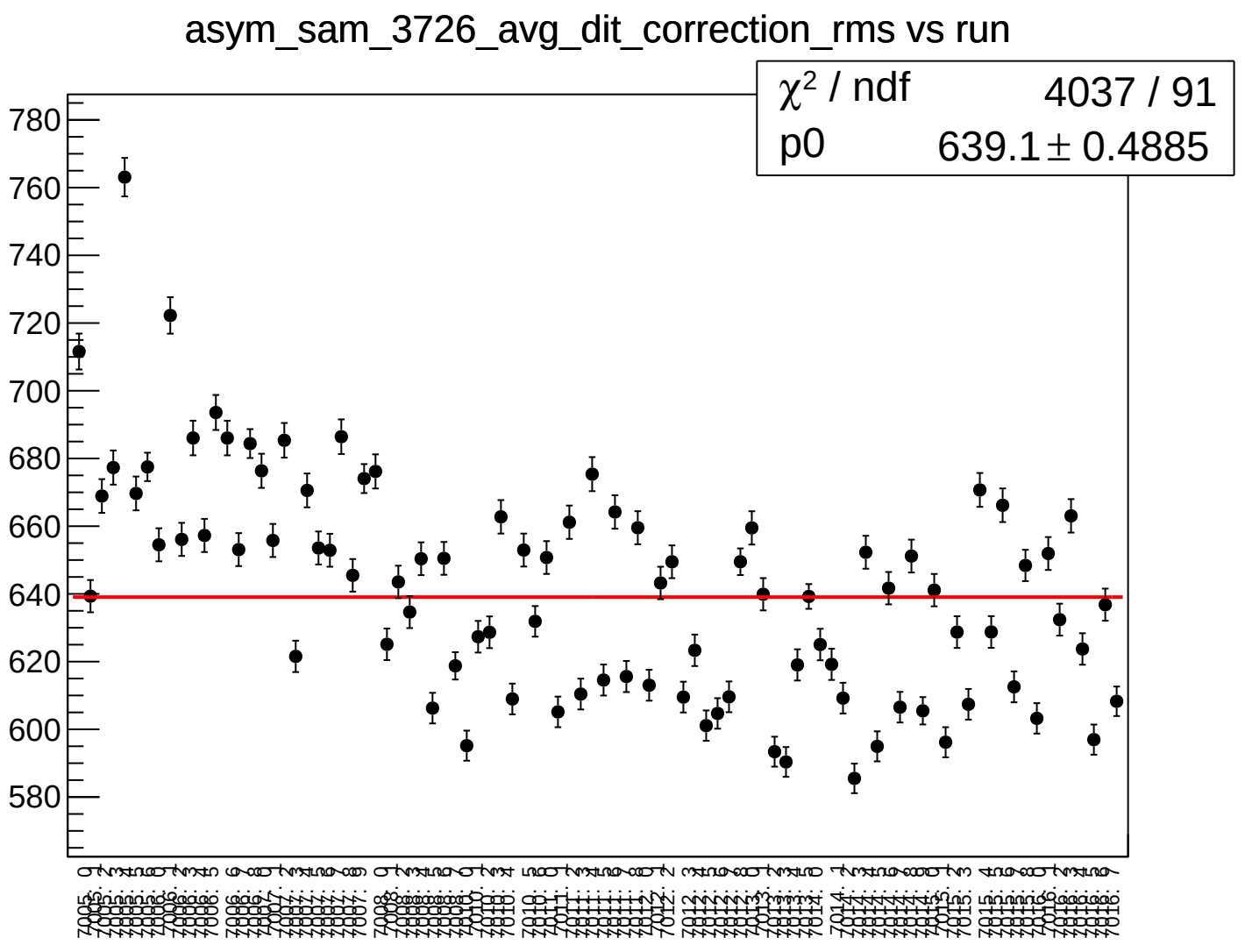

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 86.27 / 91
p0 −116 ± 76.66
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −67.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

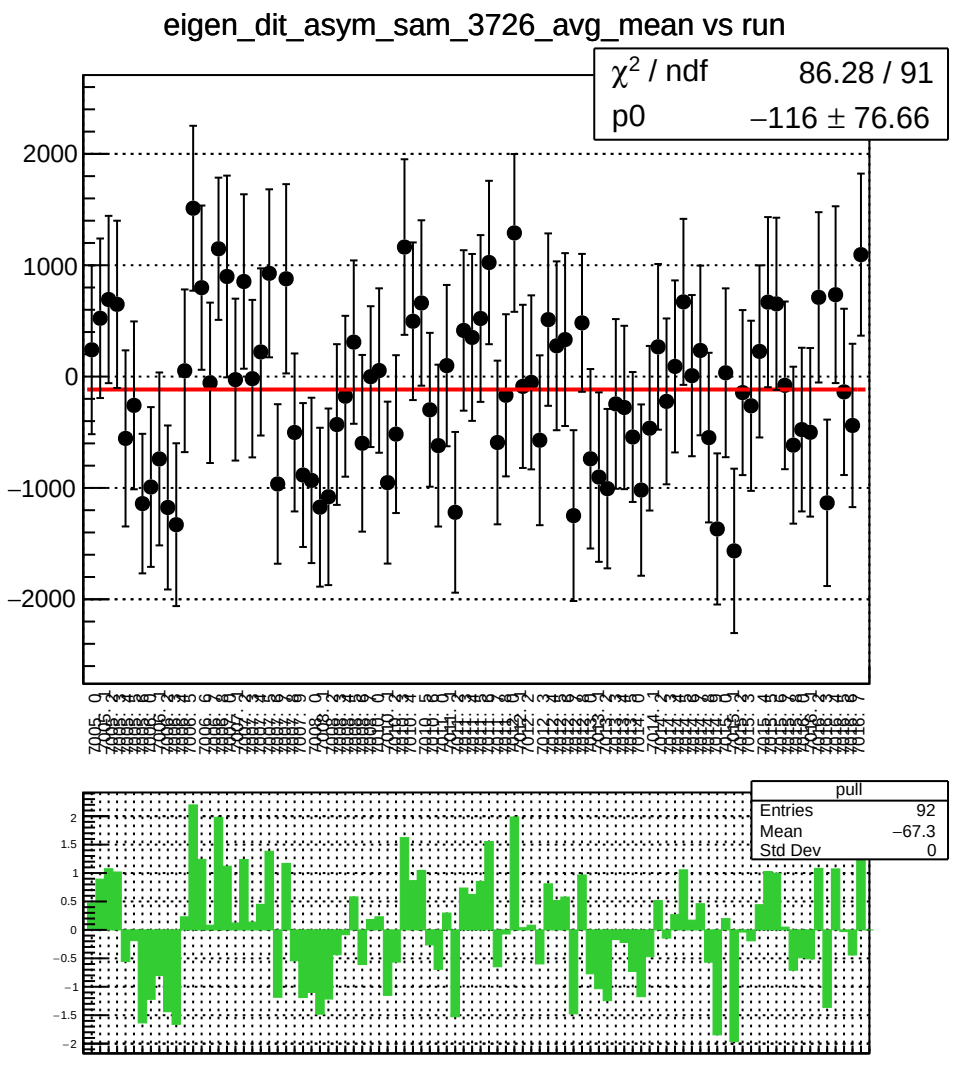

pull1D
Entries 92
Mean 0.01019
Std Dev 0.9683
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

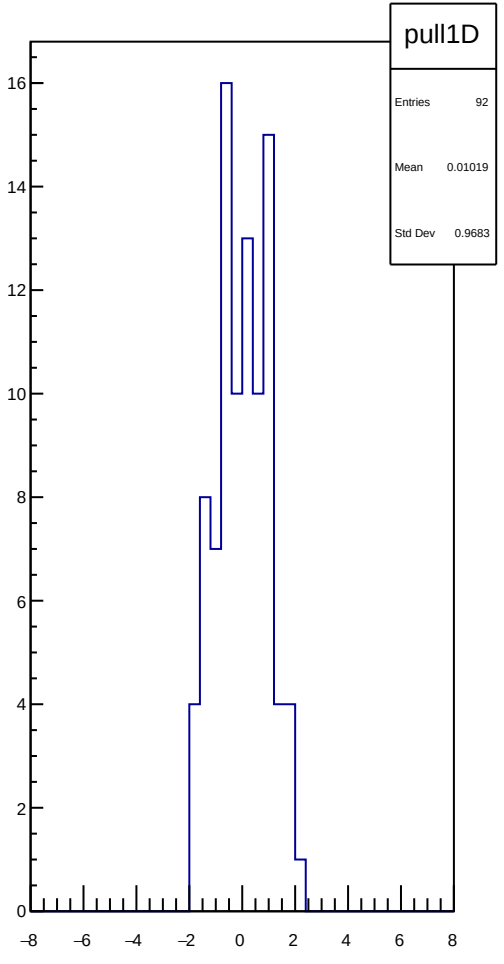

dit_asym_sam_3726_avg_rms vs run
$\chi^2$ / ndf 2341 / 91
p0 70.95 ± 0.05421
85
80
75
70
65

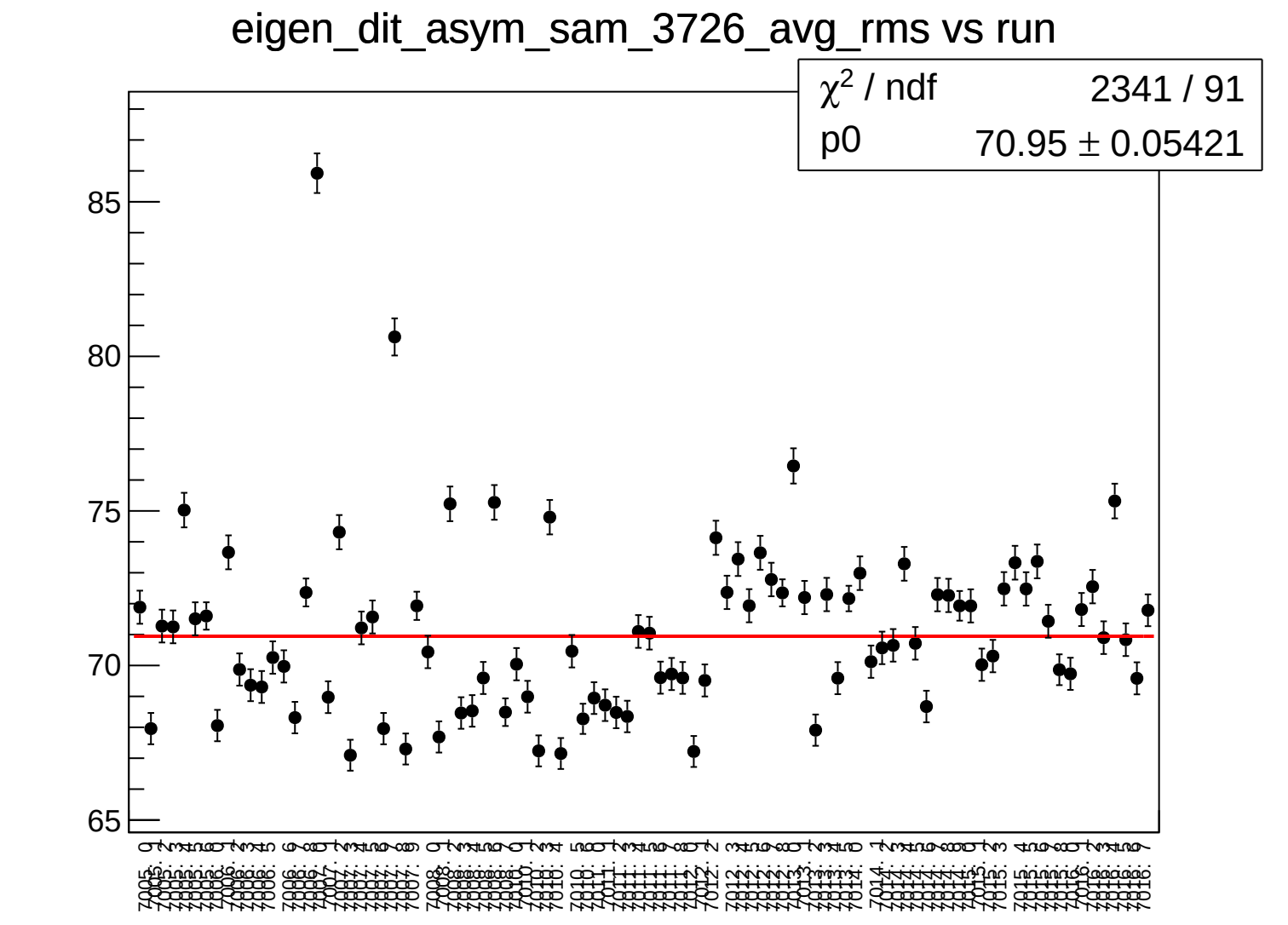

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 76.76 / 91
p0 −599.2 ± 690.9
pull
Entries 92
Mean −1.556
Std Dev 65.89

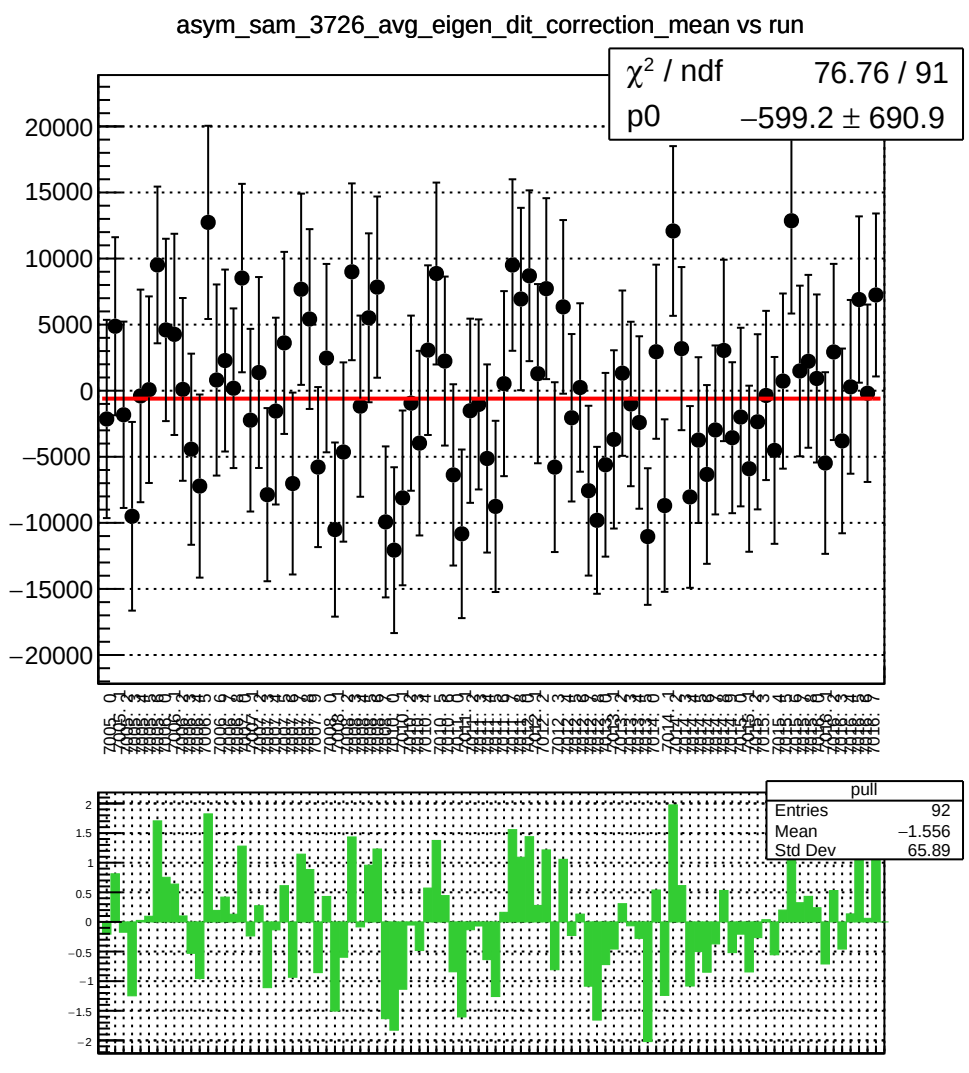

pull1D
Entries 92
Mean 0.01554
Std Dev 0.9133

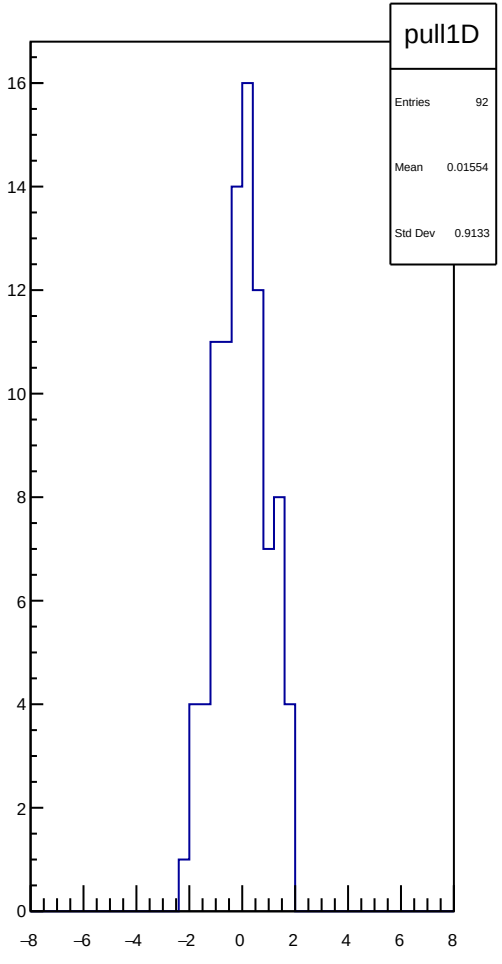

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 4037 / 91
p0 639.1 ± 0.4885
780
760
740
720
700
680
660
640
620
600
580

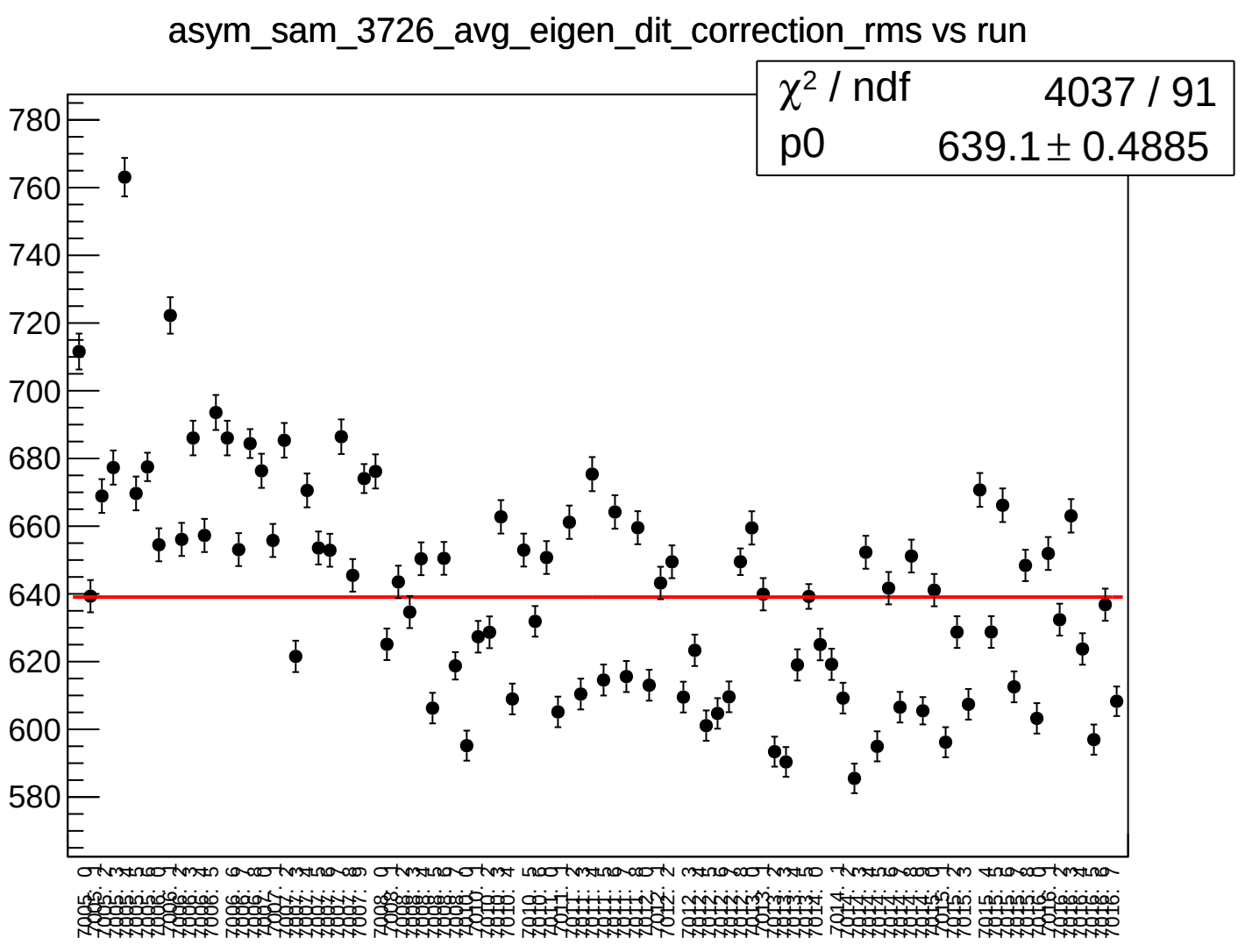

eigen_dit_asym_sam_3726_avg_mean vs run
$\chi^2$ / ndf 86.28 / 91
p0 −116 ± 76.66
2000
1000
0
−1000
−2000
pull
Entries 92
Mean −67.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

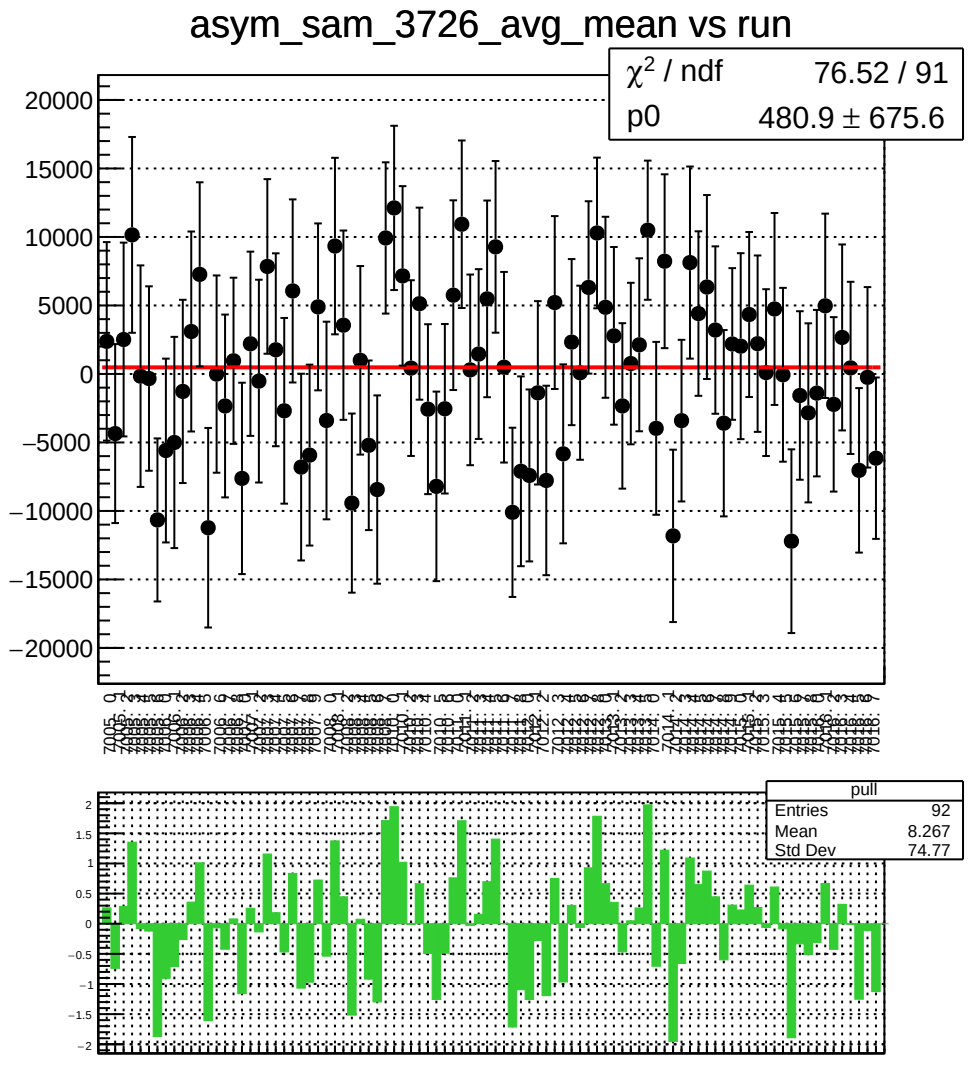

pull1D
Entries 92
Mean 0.01019
Std Dev 0.9683
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

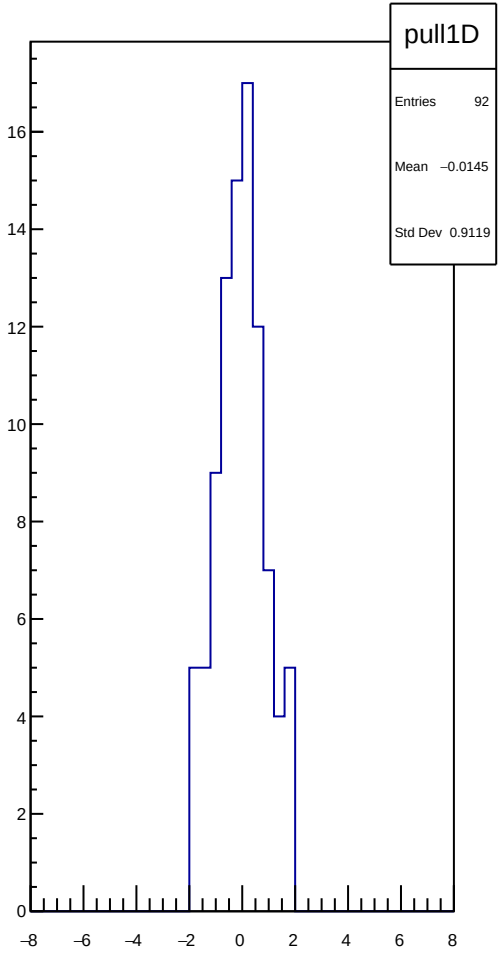

eigen_dit_asym_sam_3726_avg_rms vs run
χ2 / ndf 2341 / 91
p0 70.95 ± 0.05421
85
80
75
70
65

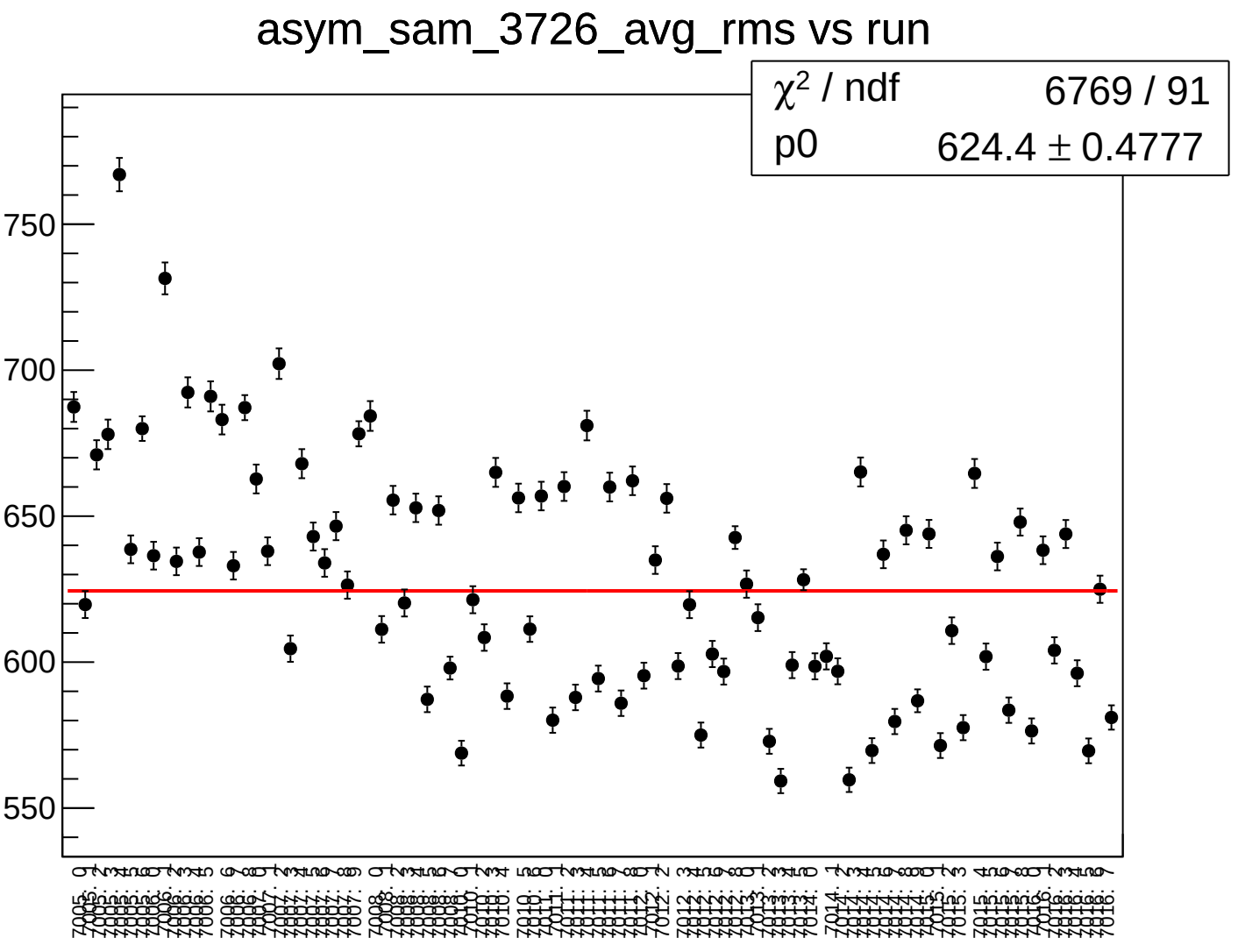

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.76 / 91
p0 −599.2 ± 690.9
pull
Entries 92
Mean −1.556
Std Dev 65.89

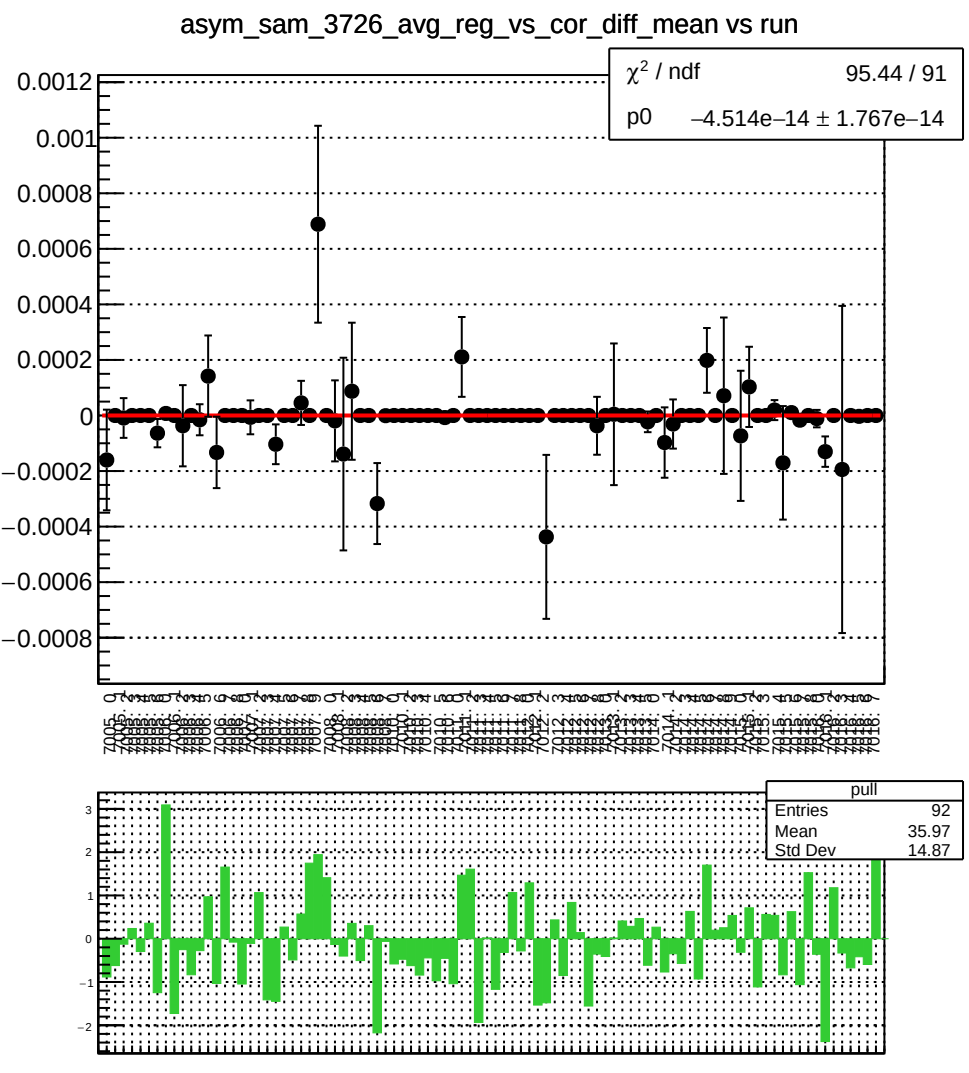

pull1D
Entries 92
Mean 0.01554
Std Dev 0.9133

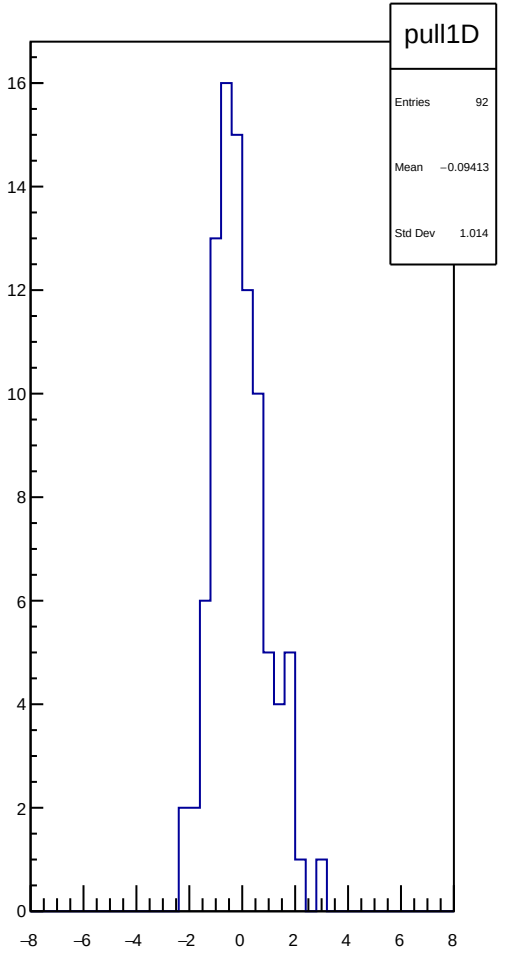

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 4037 / 91
p0 639.1 ± 0.4885
780
760
740
720
700
680
660
640
620
600
580

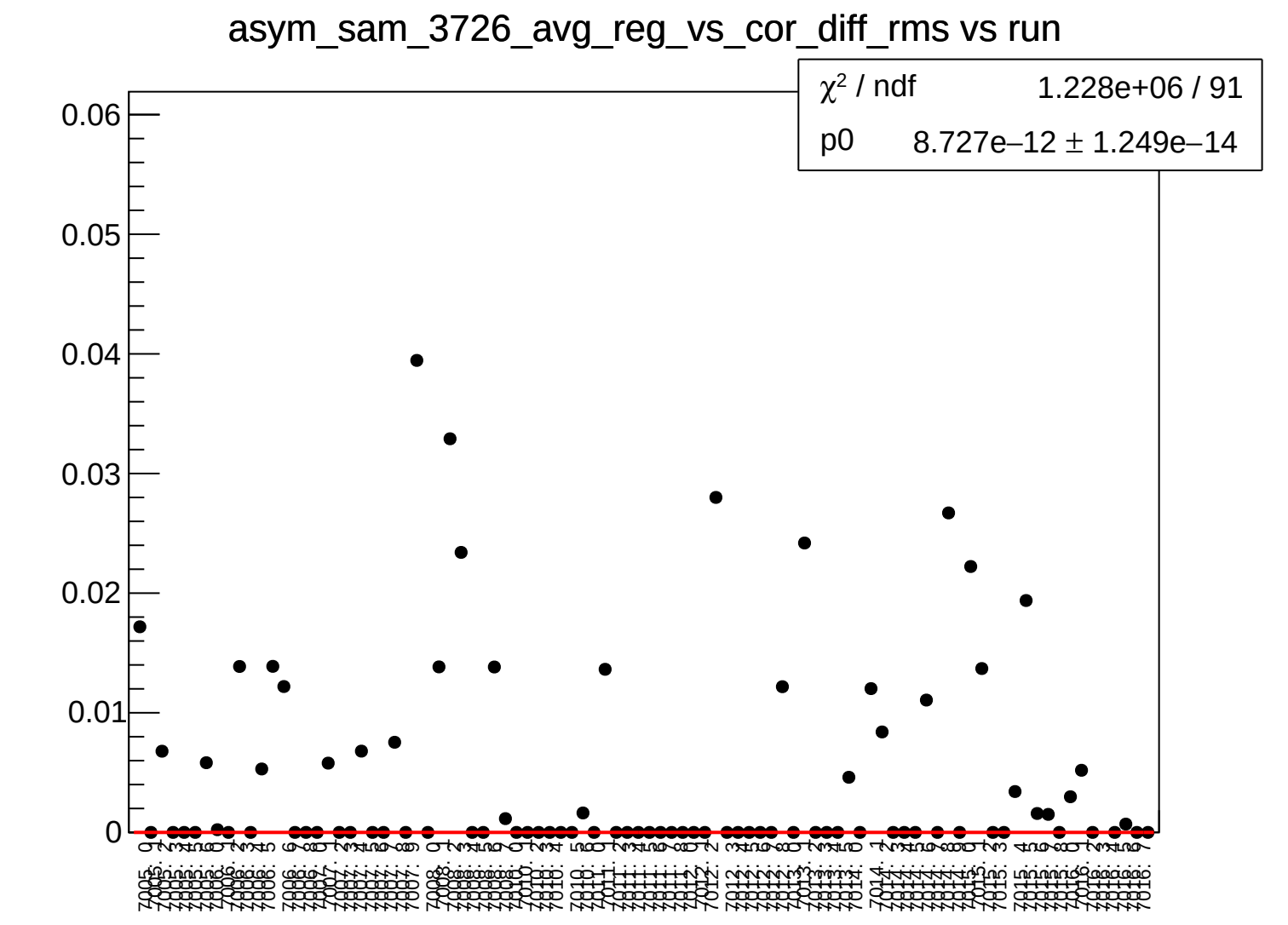

asym_sam_3726_avg_mean vs run
χ² / ndf 76.52 / 91
p0 480.9 ± 675.6
pull
Entries 92
Mean 8.267
Std Dev 74.77

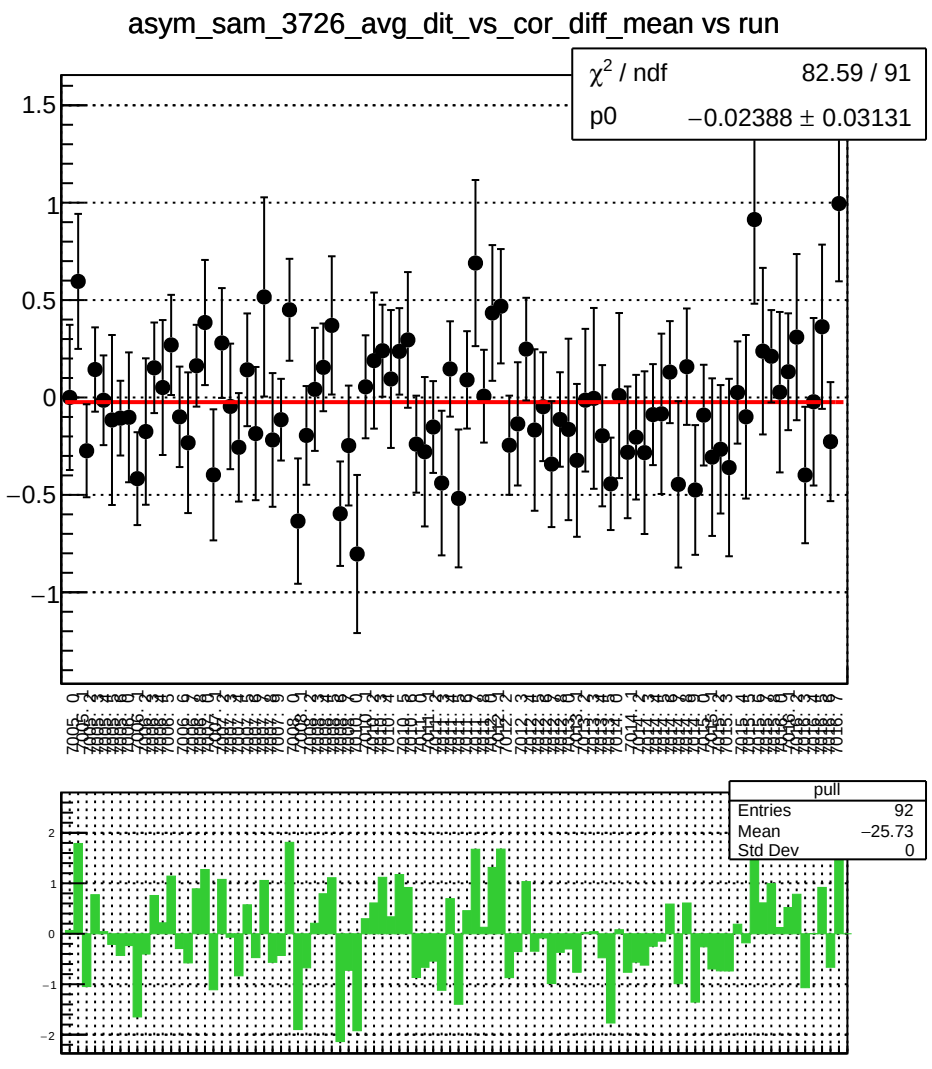

pull1D
Entries 92
Mean −0.0145
Std Dev 0.9119

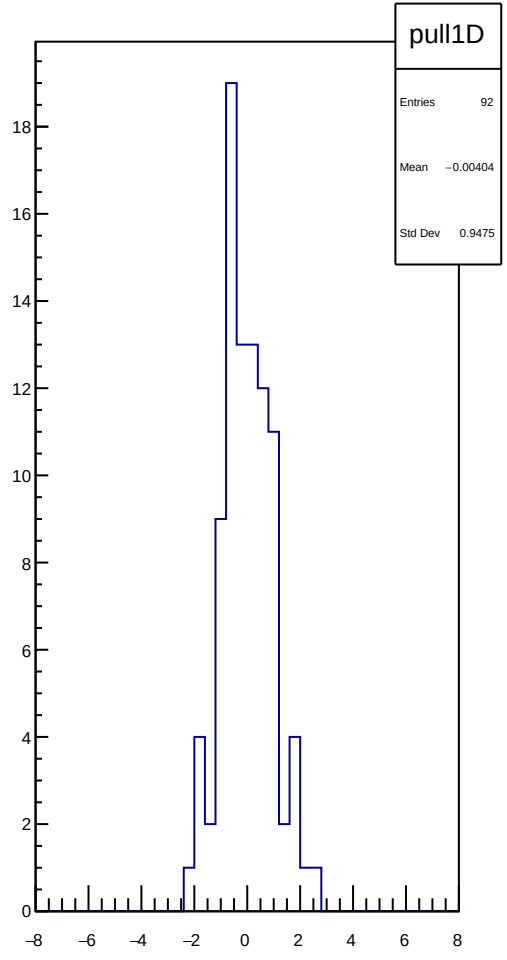

asym_sam_3726_avg_rms vs run
χ² / ndf 6769 / 91
p0 624.4 ± 0.4777
750
700
650
600
550

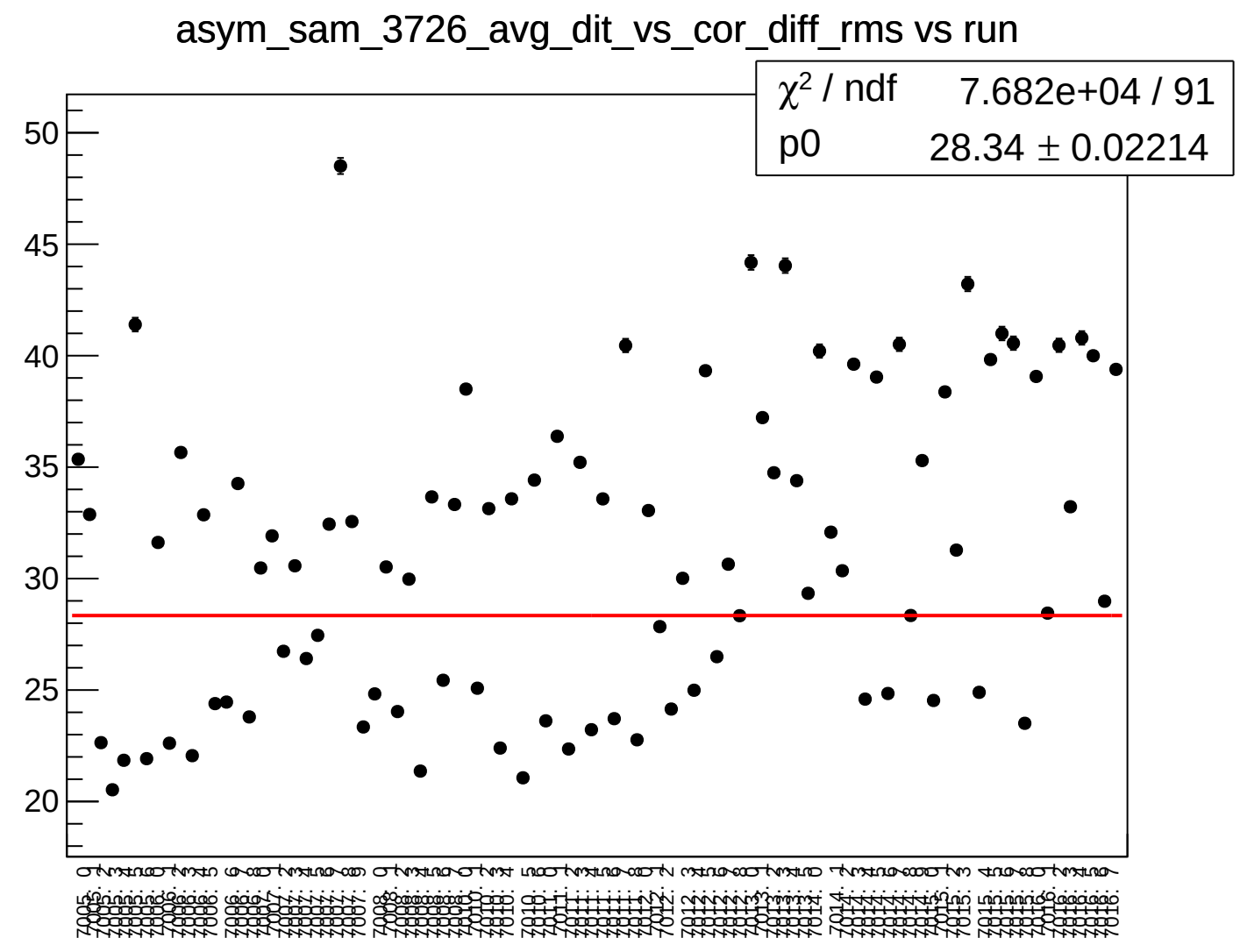

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.44 / 91
p0 −4.514e−14 ± 1.767e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 92
Mean 35.97
Std Dev 14.87
3
2
1
0
−1
−2

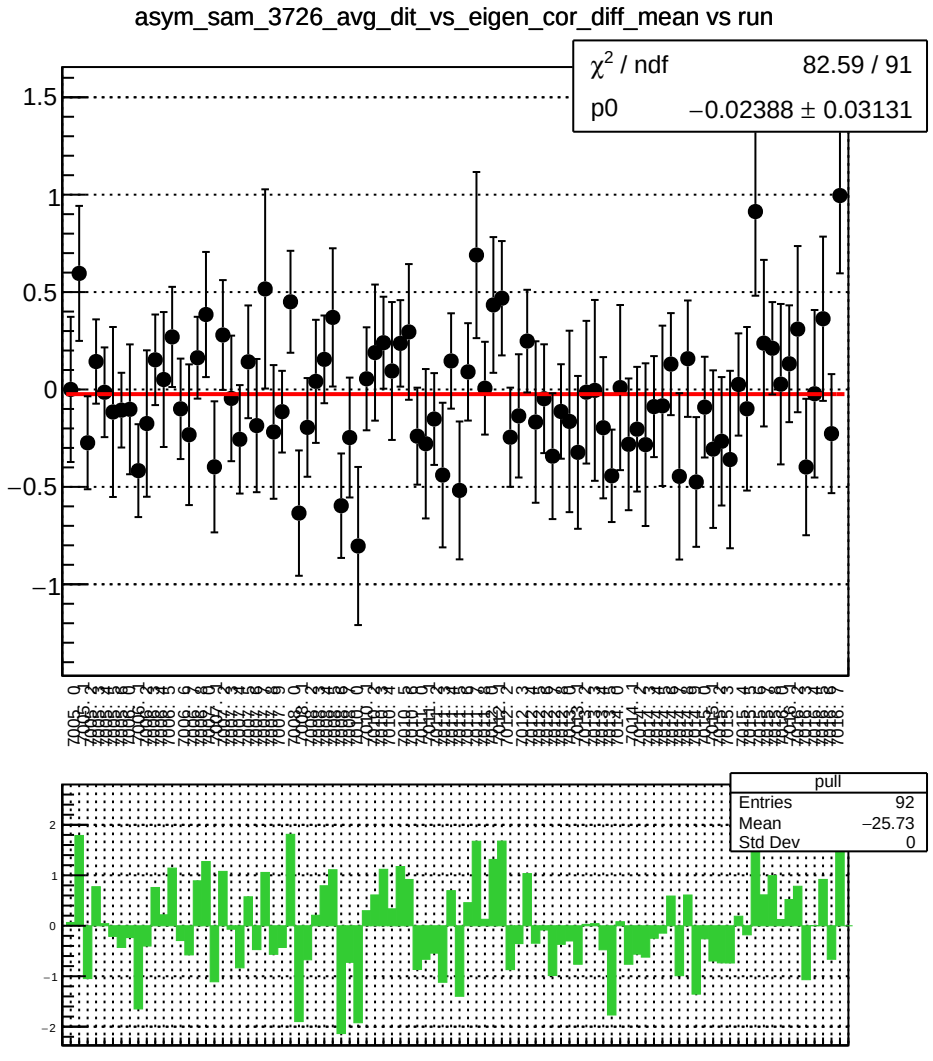

pull1D
Entries 92
Mean −0.09413
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

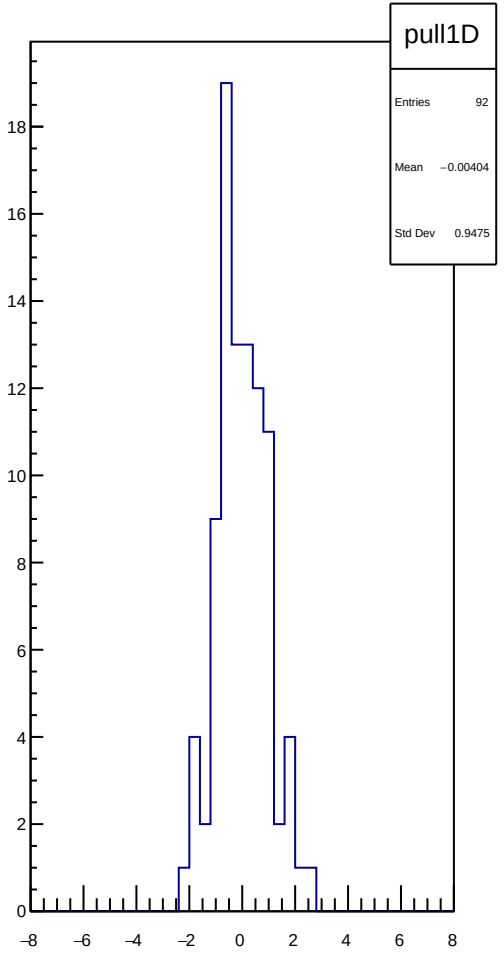

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.228e+06 / 91
p0 8.727e−12 ± 1.249e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

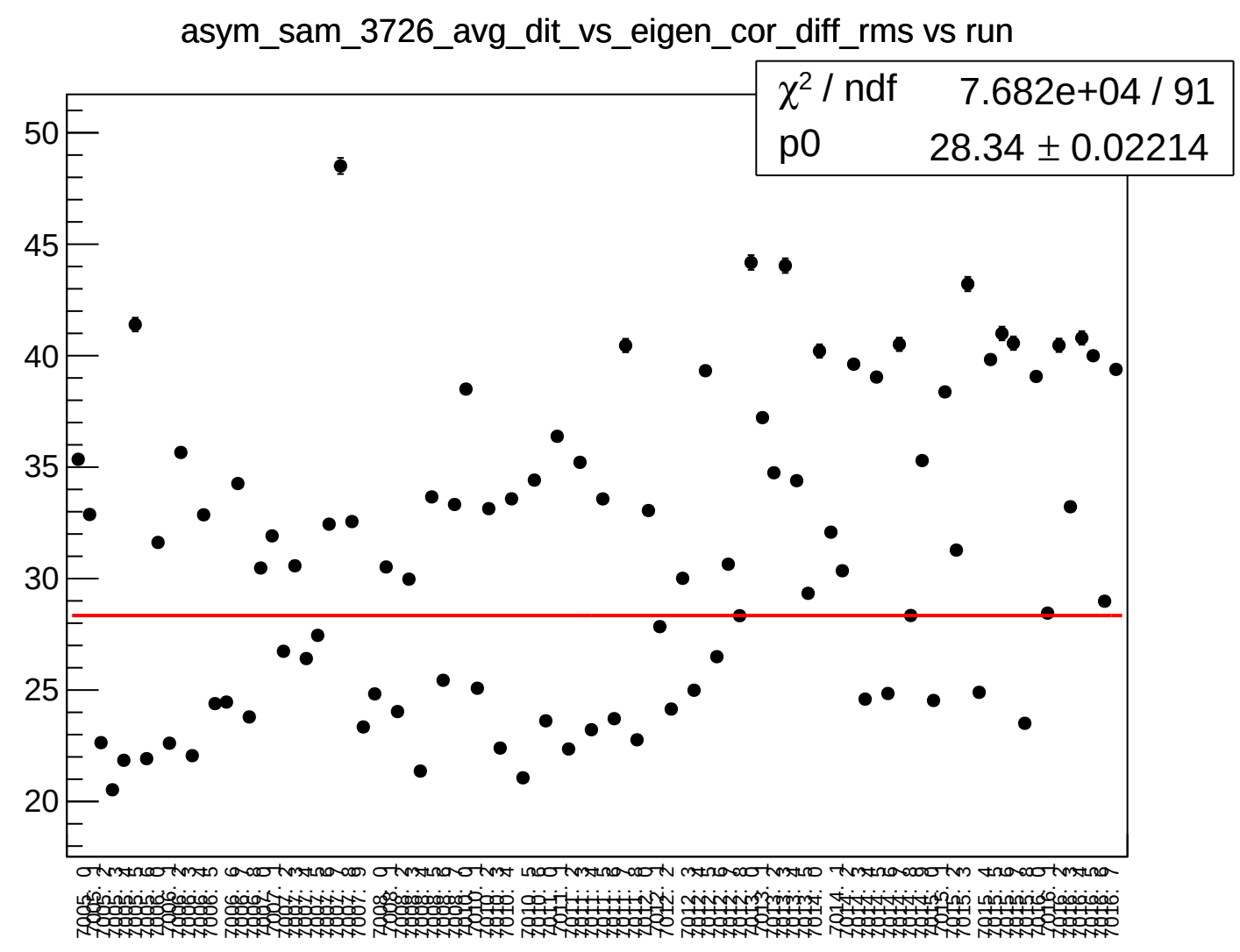

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.59 / 91
p0 −0.02388 ± 0.03131
pull
Entries 92
Mean −25.73
Std Dev 0

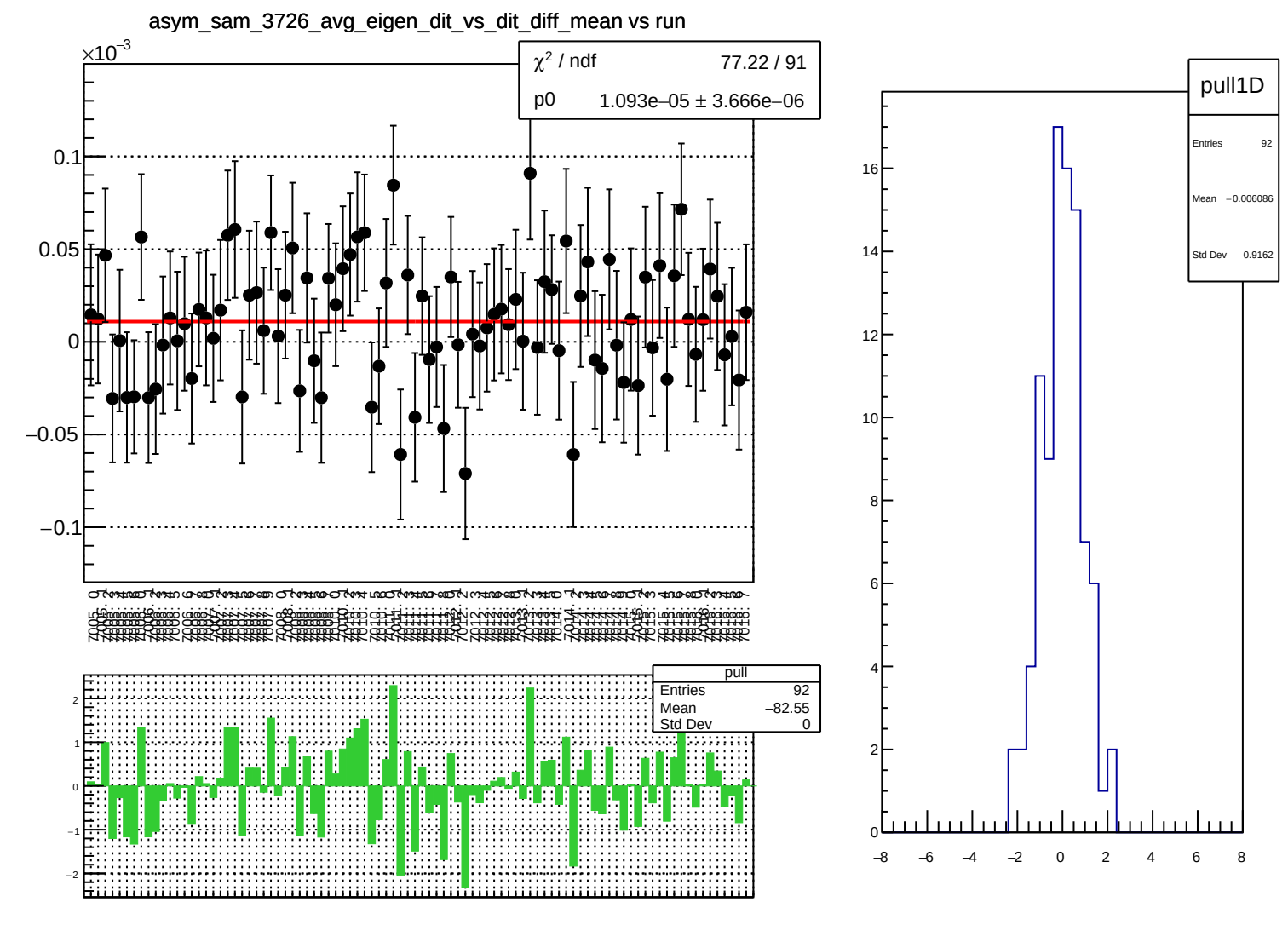

pull1D
Entries 92
Mean −0.00404
Std Dev 0.9475

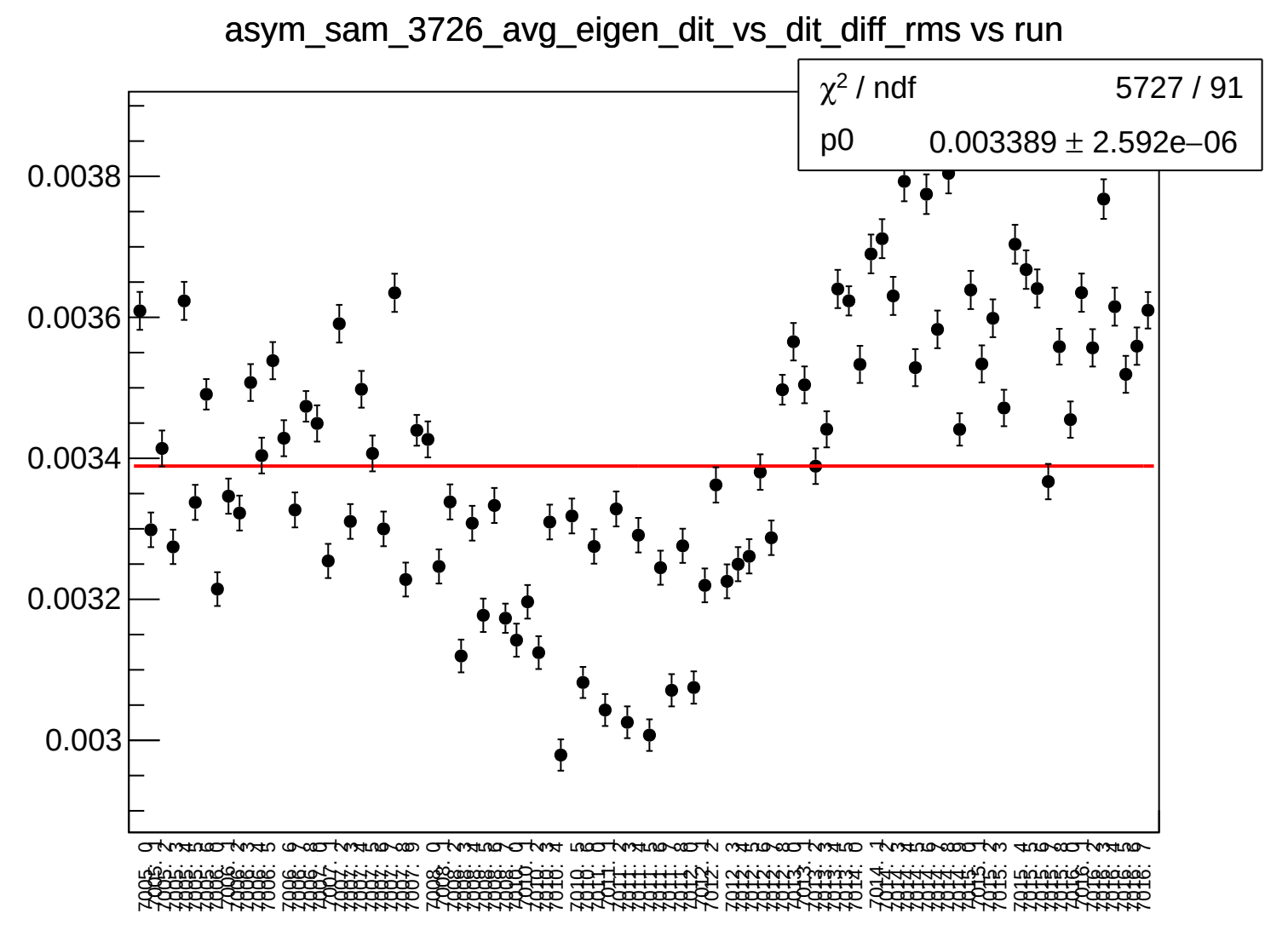

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.682e+04 / 91
p0 28.34 ± 0.02214
50
45
40
35
30
25
20

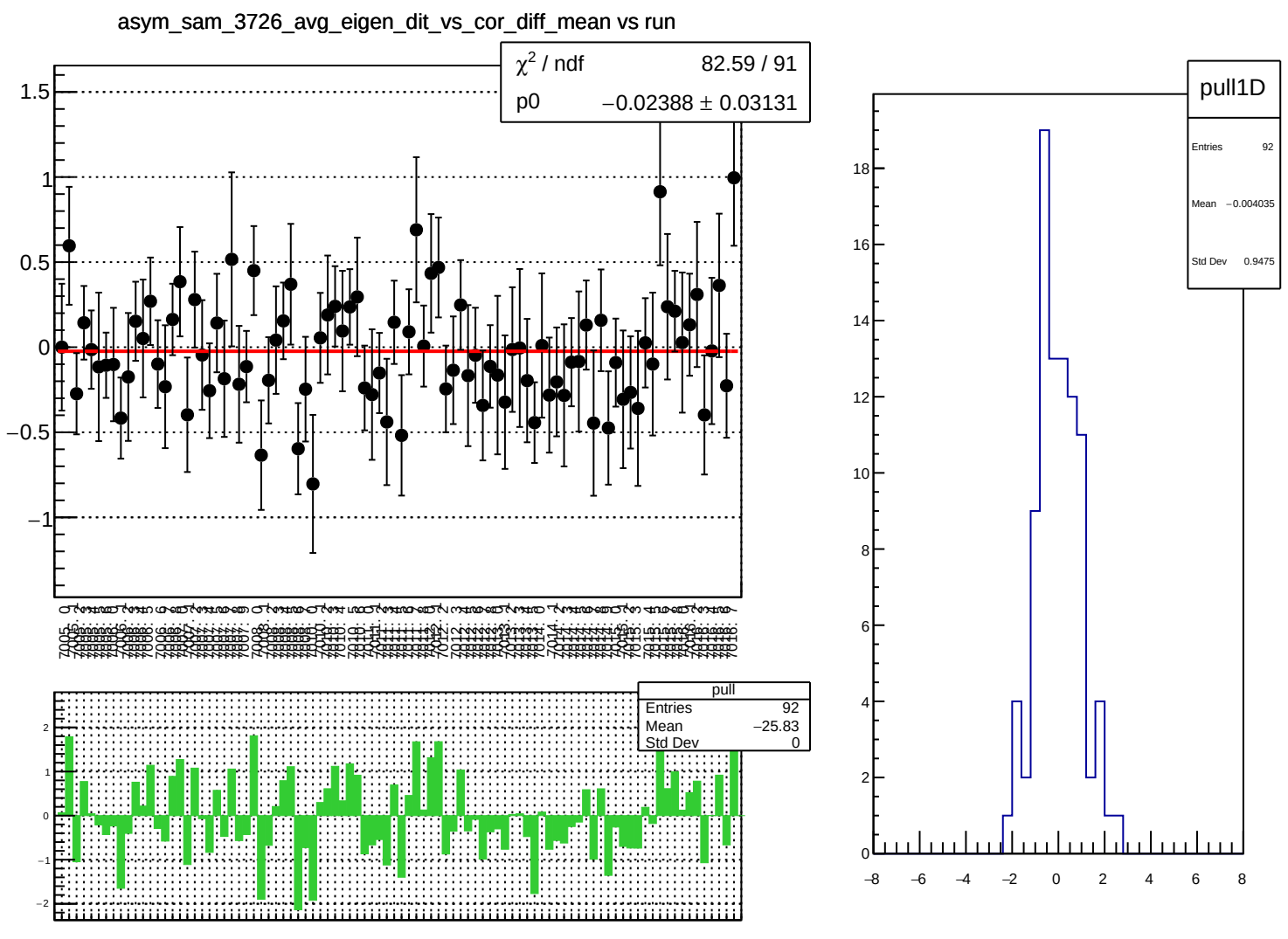

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.59 / 91
p0 −0.02388 ± 0.03131
pull
Entries 92
Mean −25.73
Std Dev 0

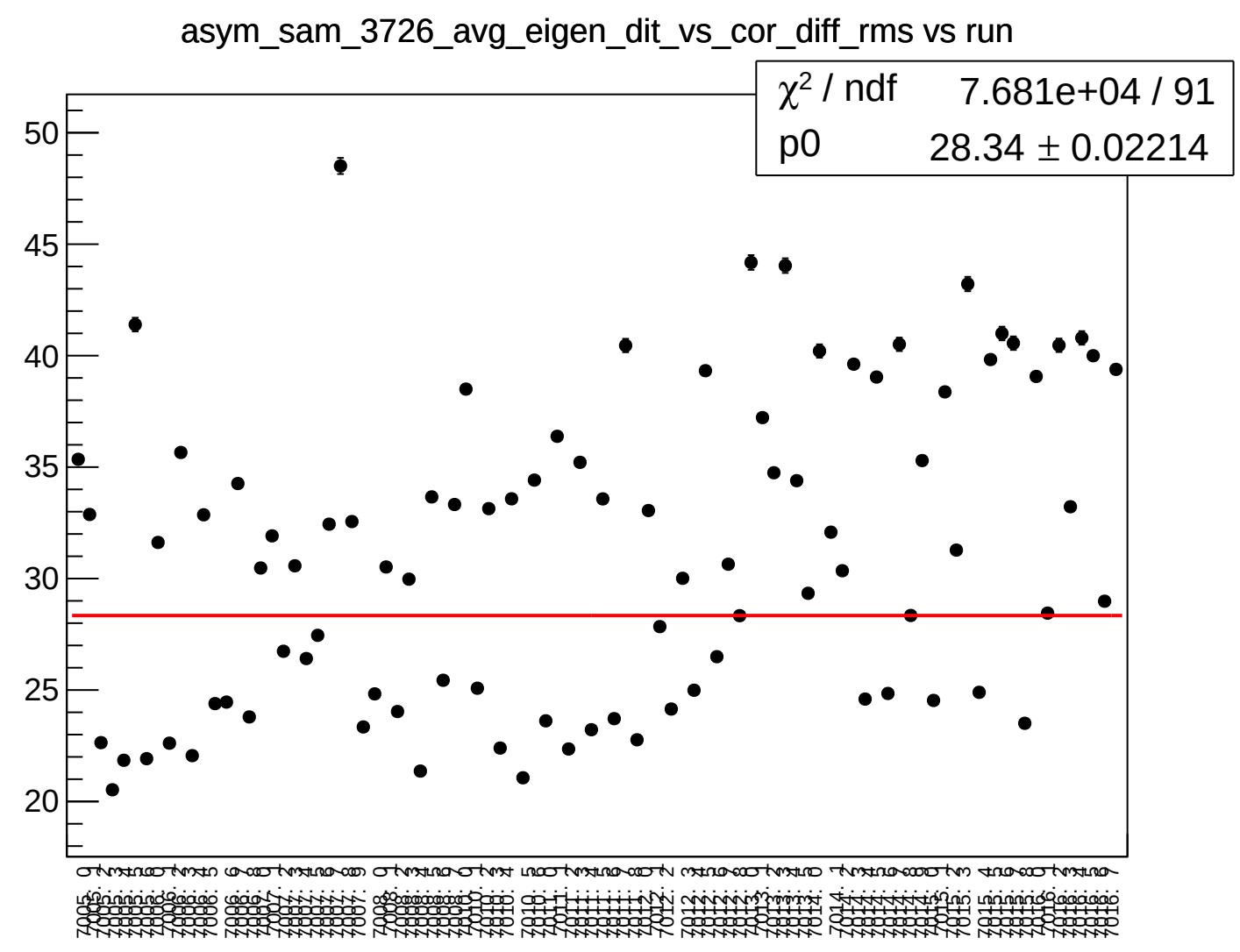

pull1D
Entries 92
Mean −0.00404
Std Dev 0.9475

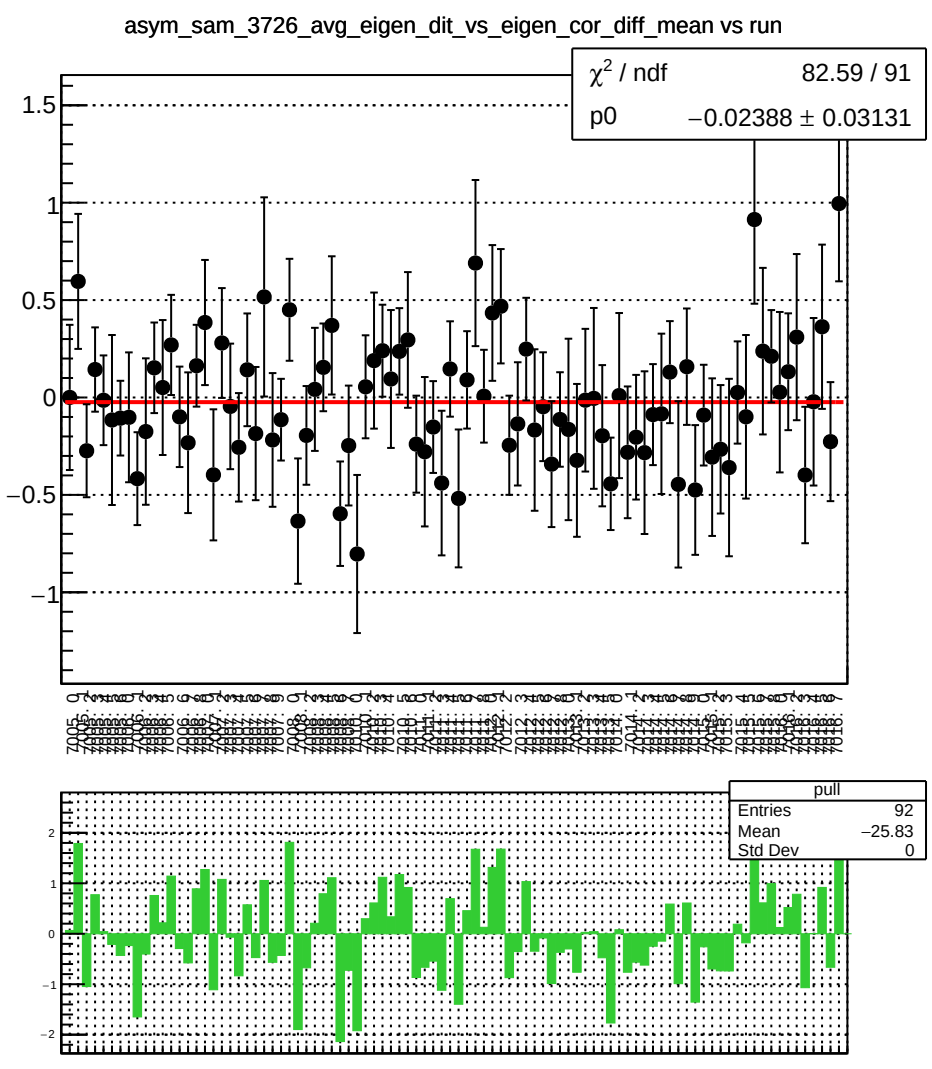

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.682e+04 / 91
p0 28.34 ± 0.02214
50
45
40
35
30
25
20

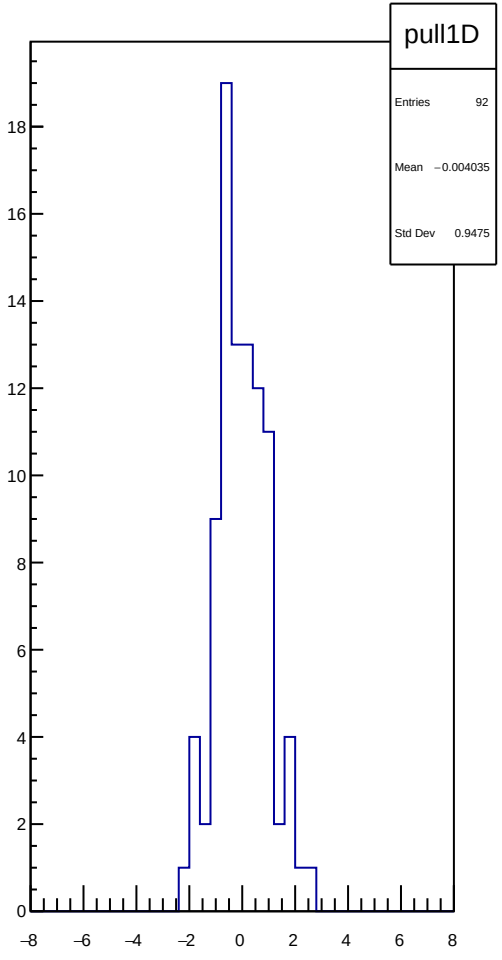

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.22 / 91
p0 1.093e−05 ± 3.666e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −82.55
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.006086
Std Dev 0.9162
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

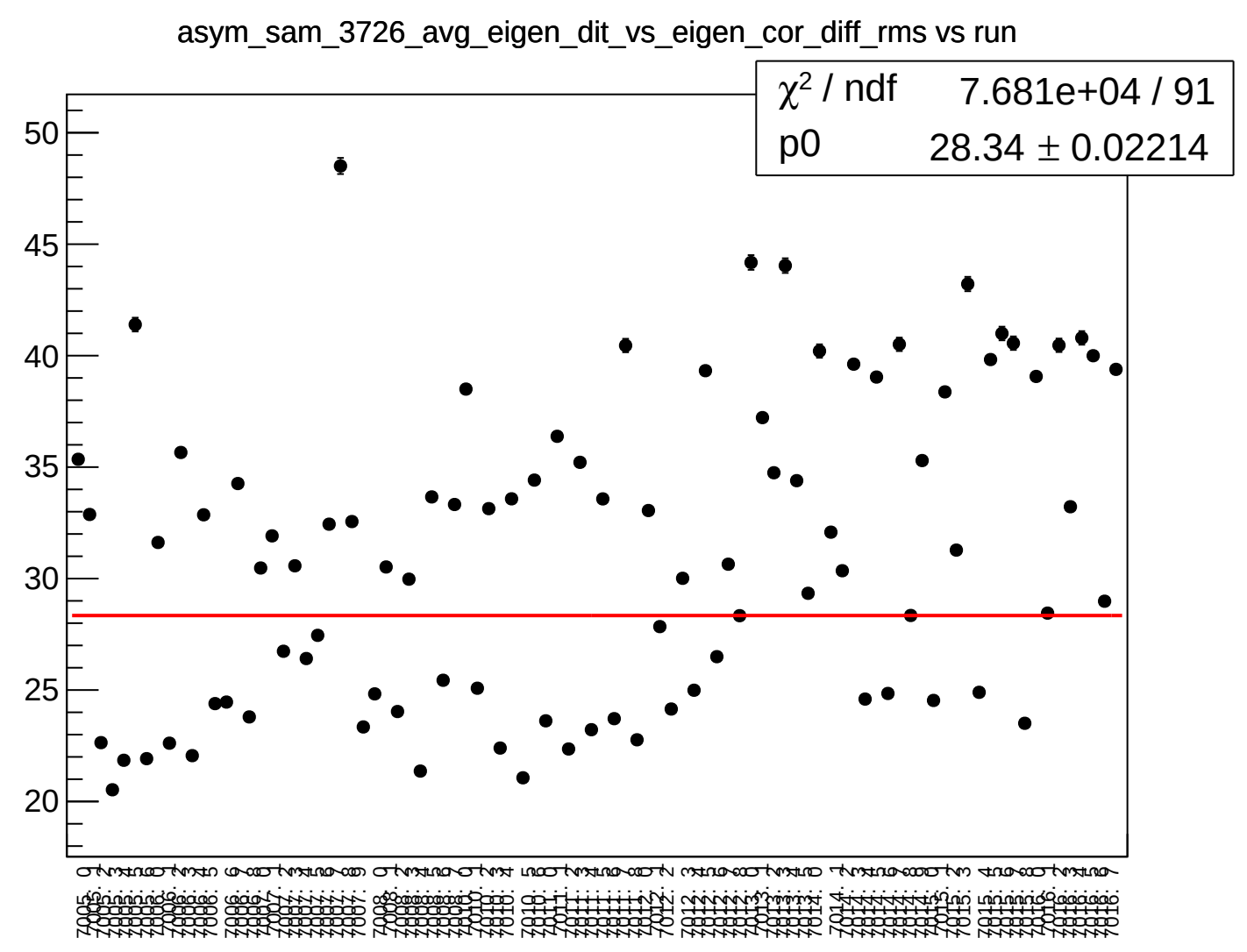

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5727 / 91
p0 0.003389 ± 2.592e−06
0.0038
0.0036
0.0034
0.0032
0.003

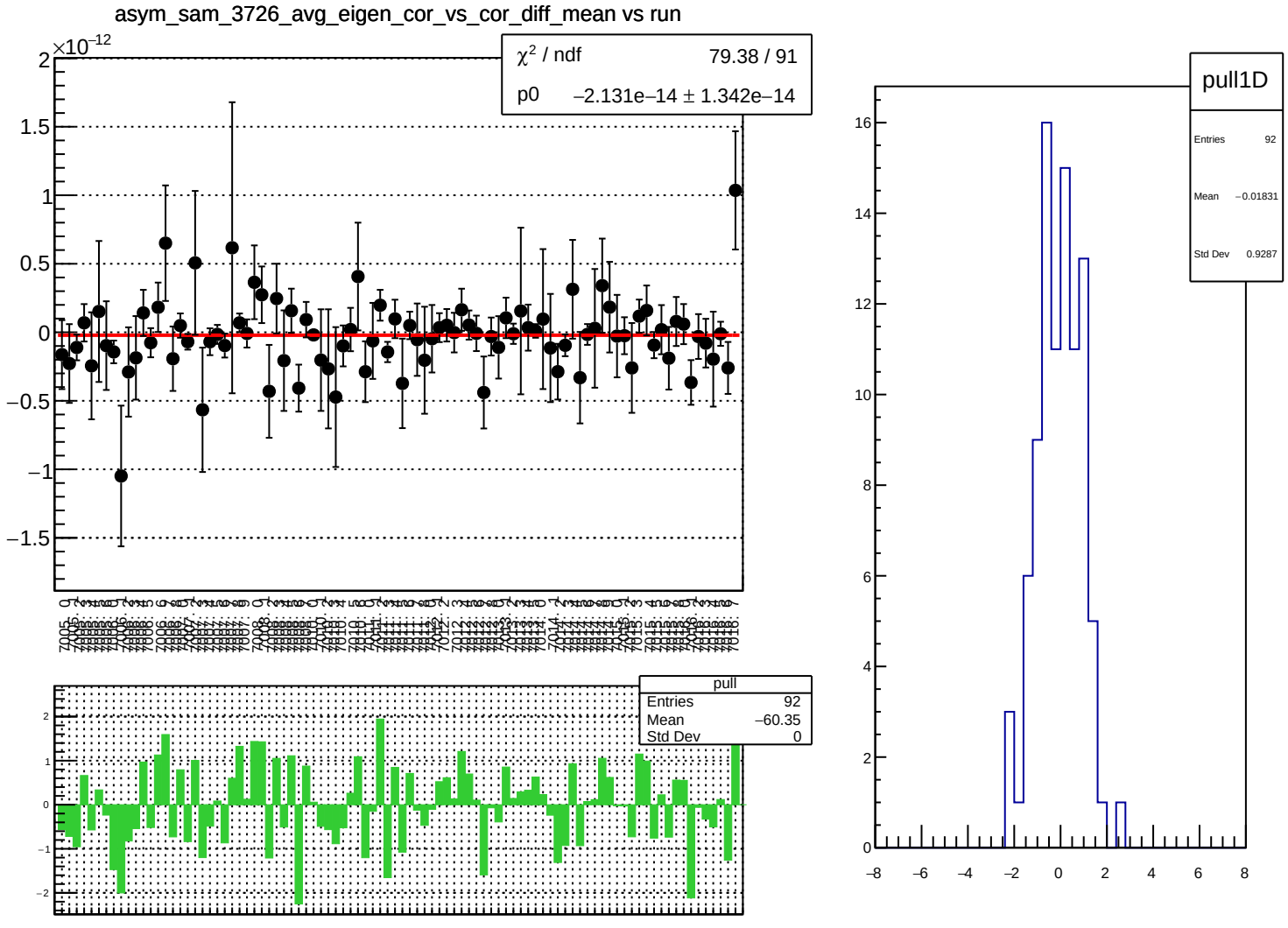

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.59 / 91
p0 −0.02388 ± 0.03131
pull
Entries 92
Mean −25.83
Std Dev 0
pull1D
Entries 92
Mean −0.004035
Std Dev 0.9475

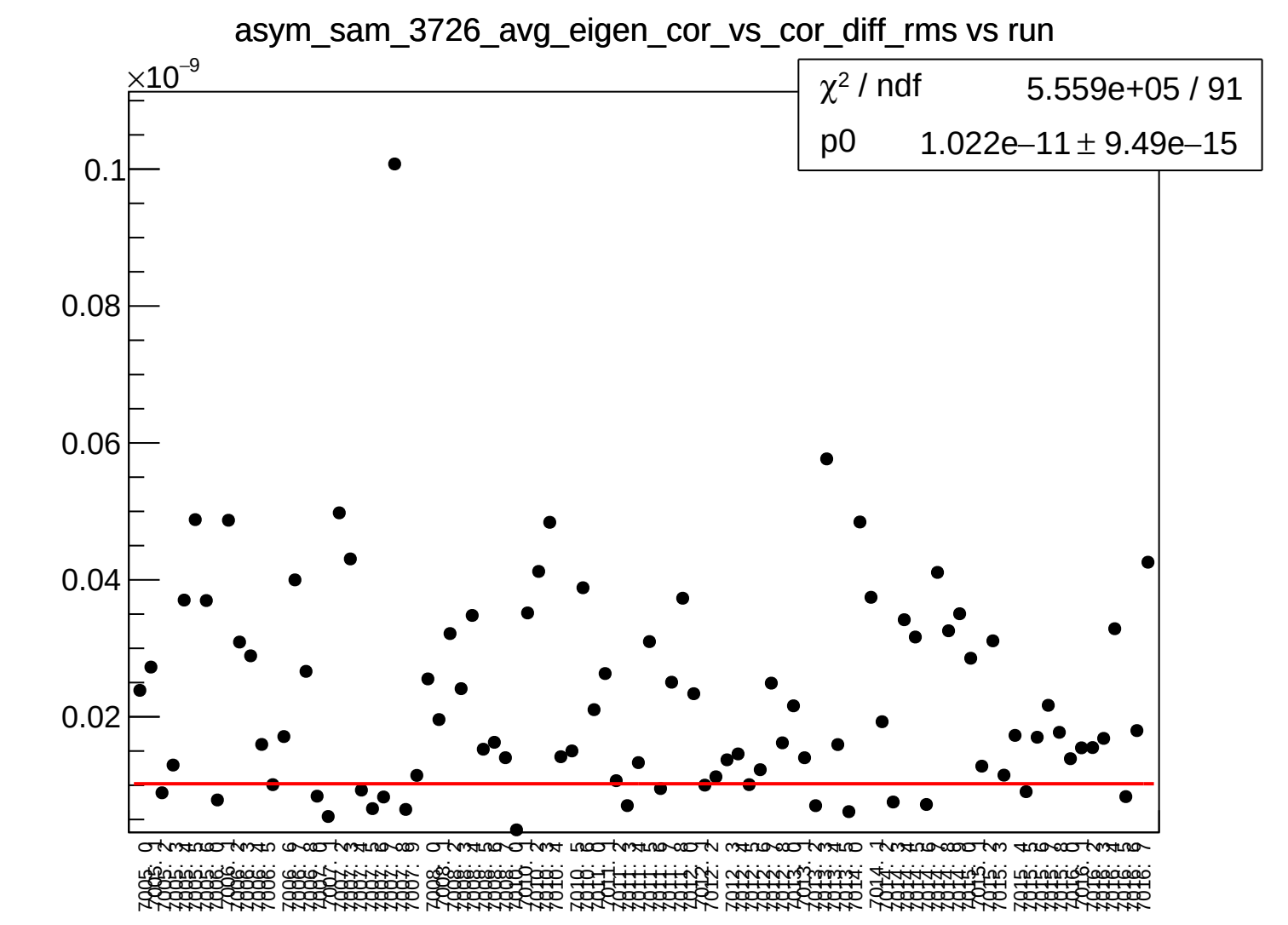

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.681e+04 / 91
p0 28.34 ± 0.02214
50
45
40
35
30
25
20

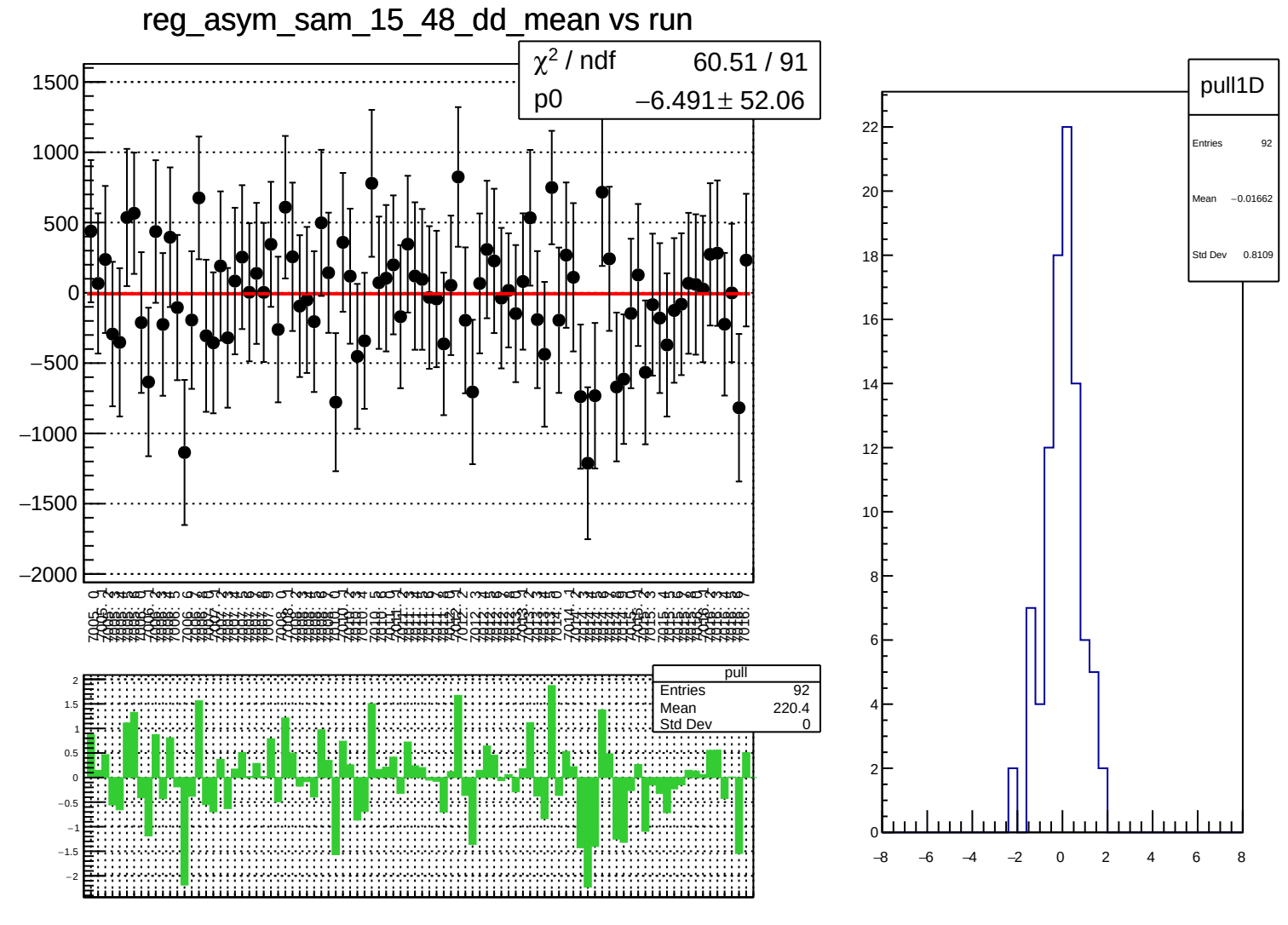

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.59 / 91
p0 −0.02388 ± 0.03131
pull
Entries 92
Mean −25.83
Std Dev 0

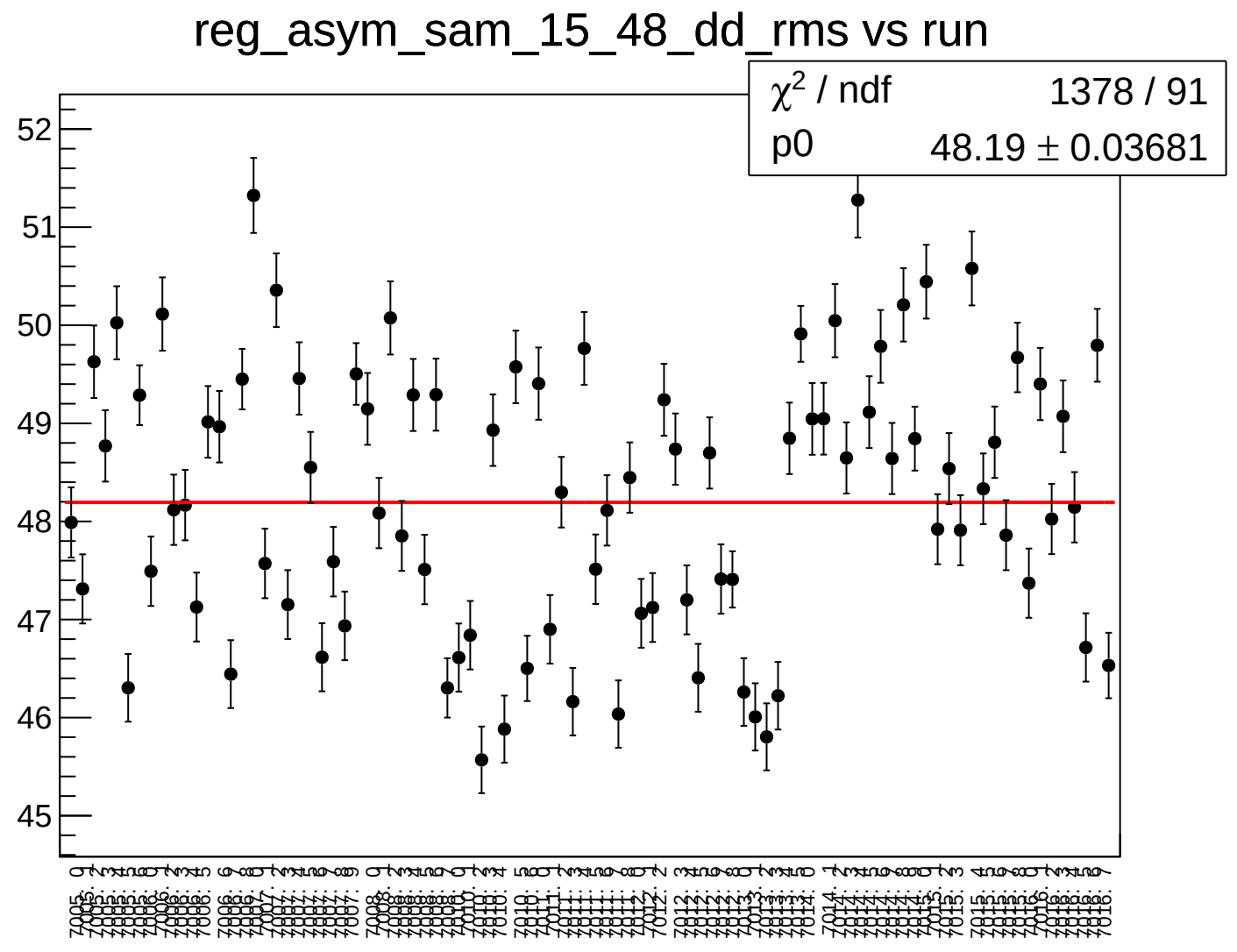

pull1D
Entries 92
Mean −0.004035
Std Dev 0.9475

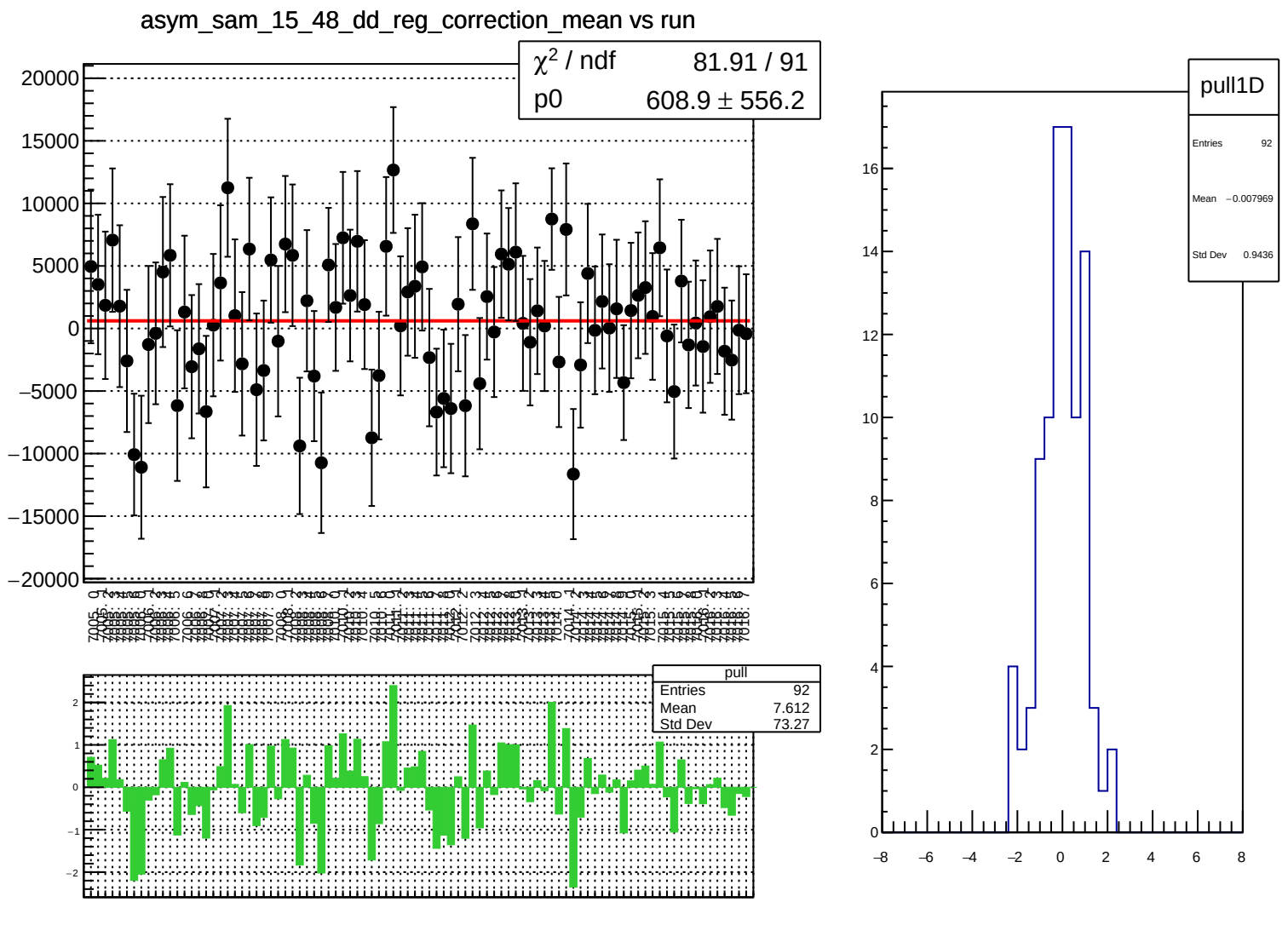

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.681e+04 / 91
p0 28.34 ± 0.02214
50
45
40
35
30
25
20

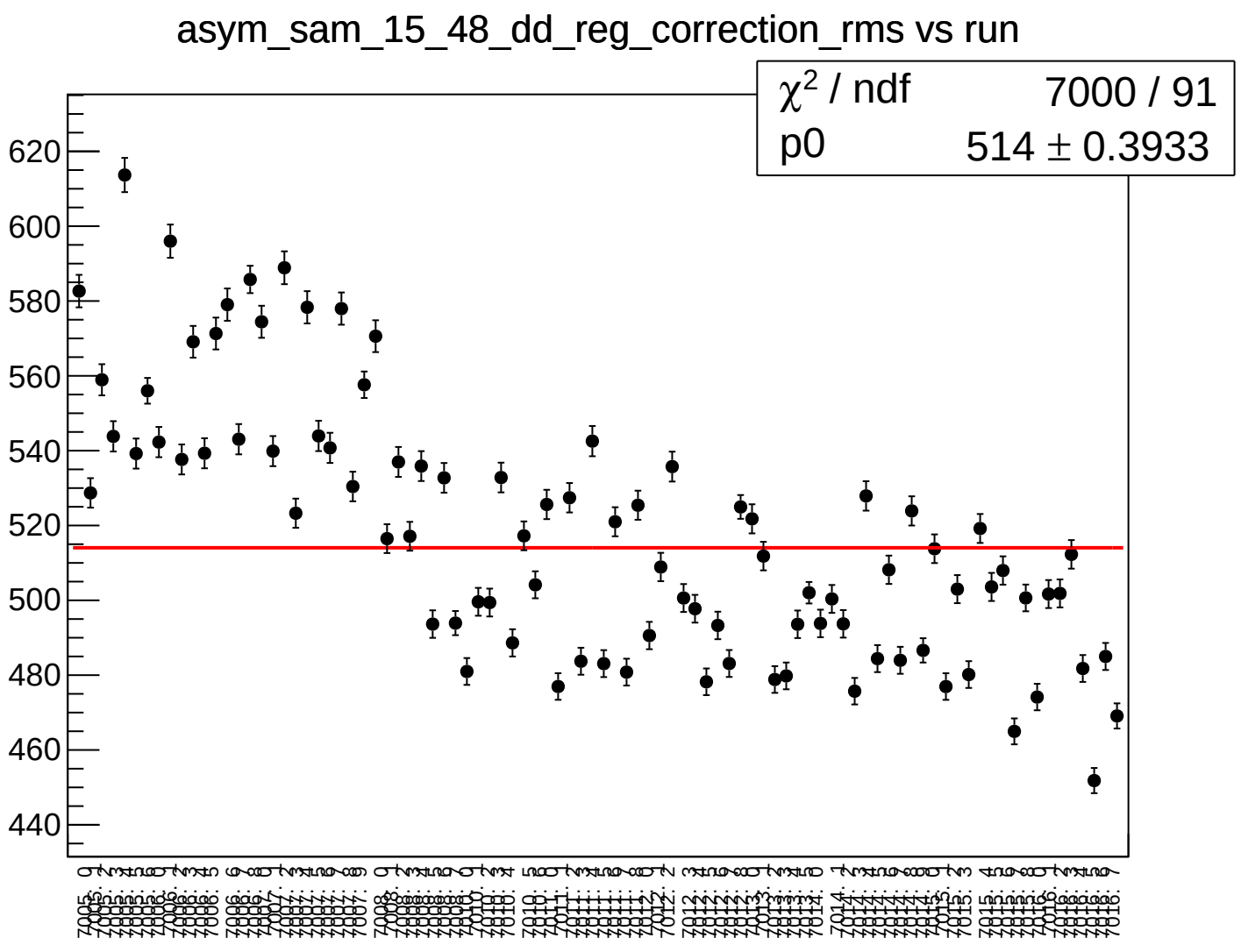

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.38 / 91
p0 −2.131e−14 ± 1.342e−14
pull
Entries 92
Mean −60.35
Std Dev 0
pull1D
Entries 92
Mean −0.01831
Std Dev 0.9287

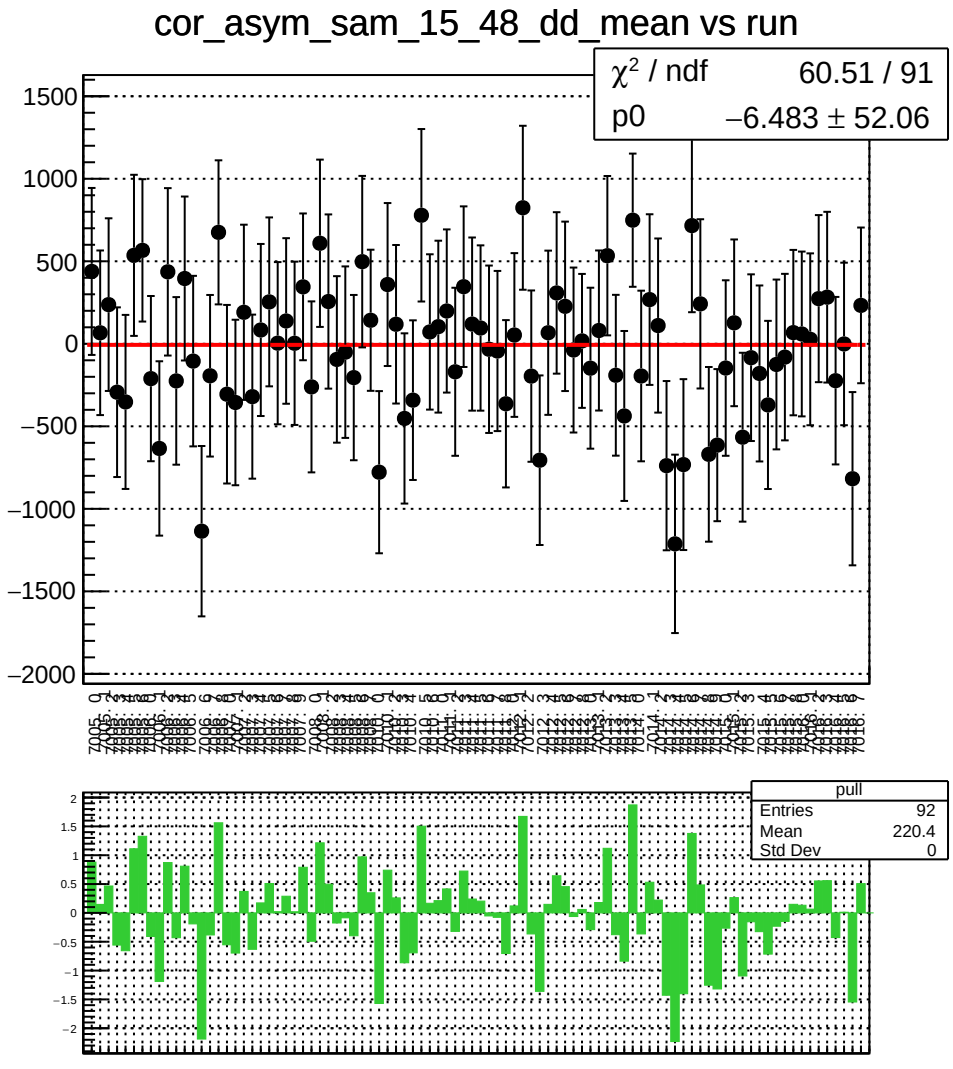

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.559e+05 / 91
p0 1.022e−11 ± 9.49e−15
0.1
0.08
0.06
0.04
0.02

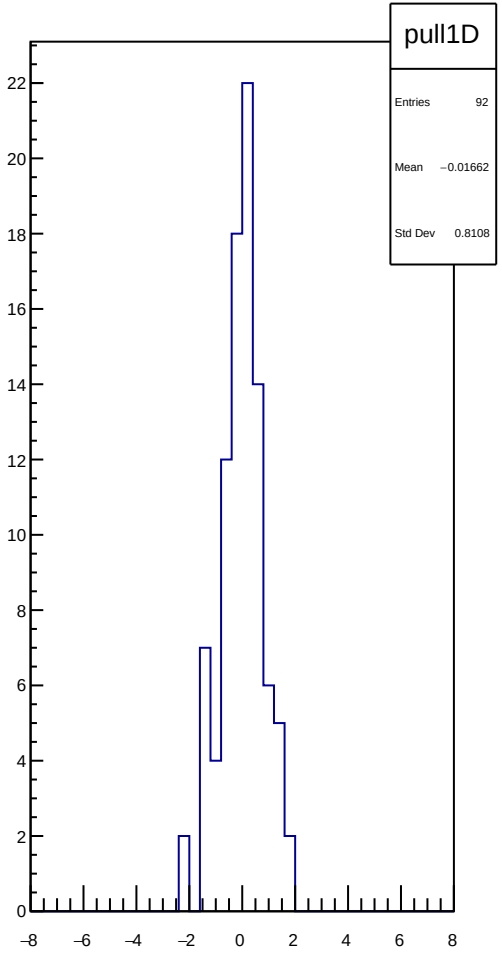

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 60.51 / 91
p0 −6.491 ± 52.06
pull
Entries 92
Mean 220.4
Std Dev 0
pull1D
Entries 92
Mean −0.01662
Std Dev 0.8109

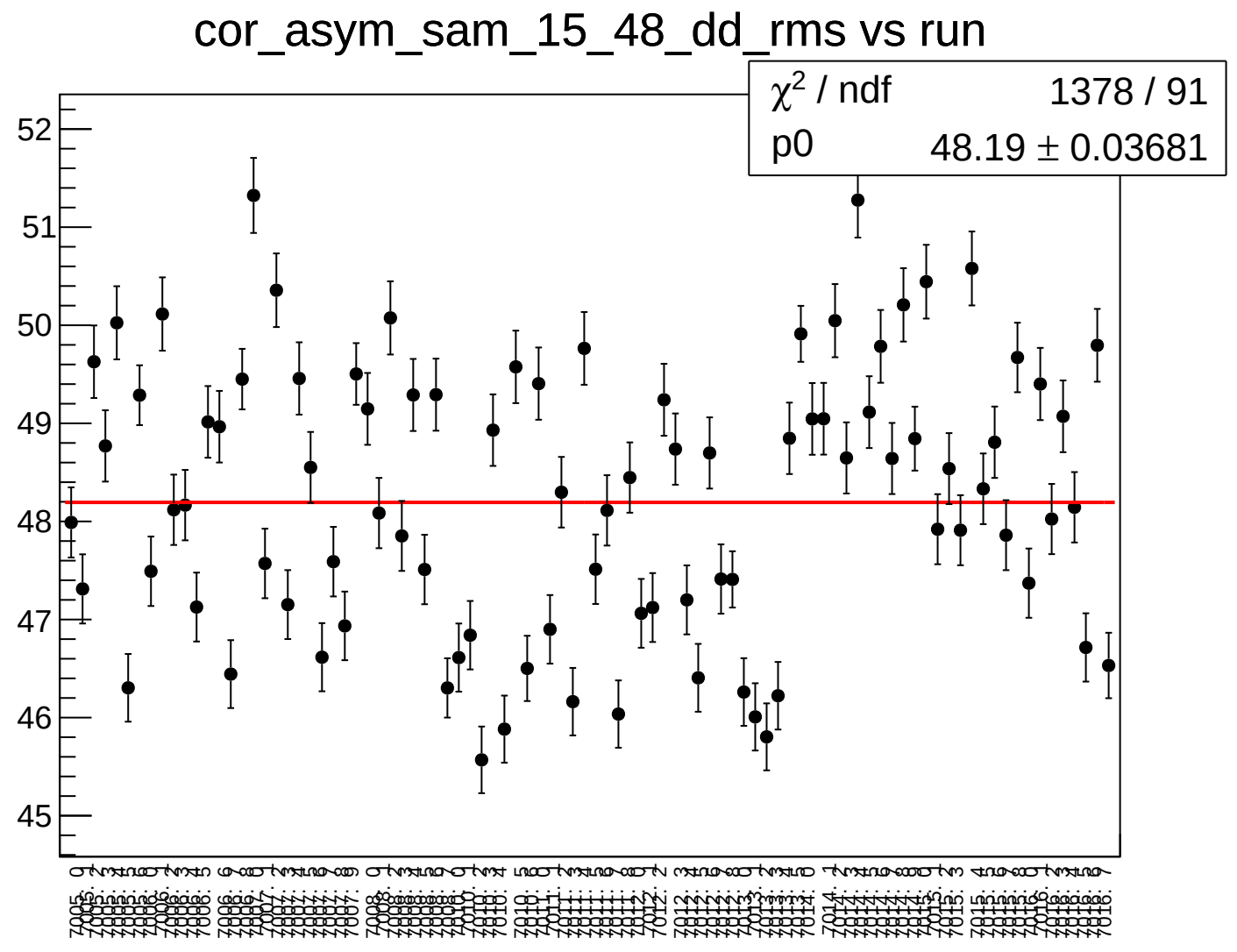

reg_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 1378 / 91
p0 48.19 ± 0.03681
52
51
50
49
48
47
46
45

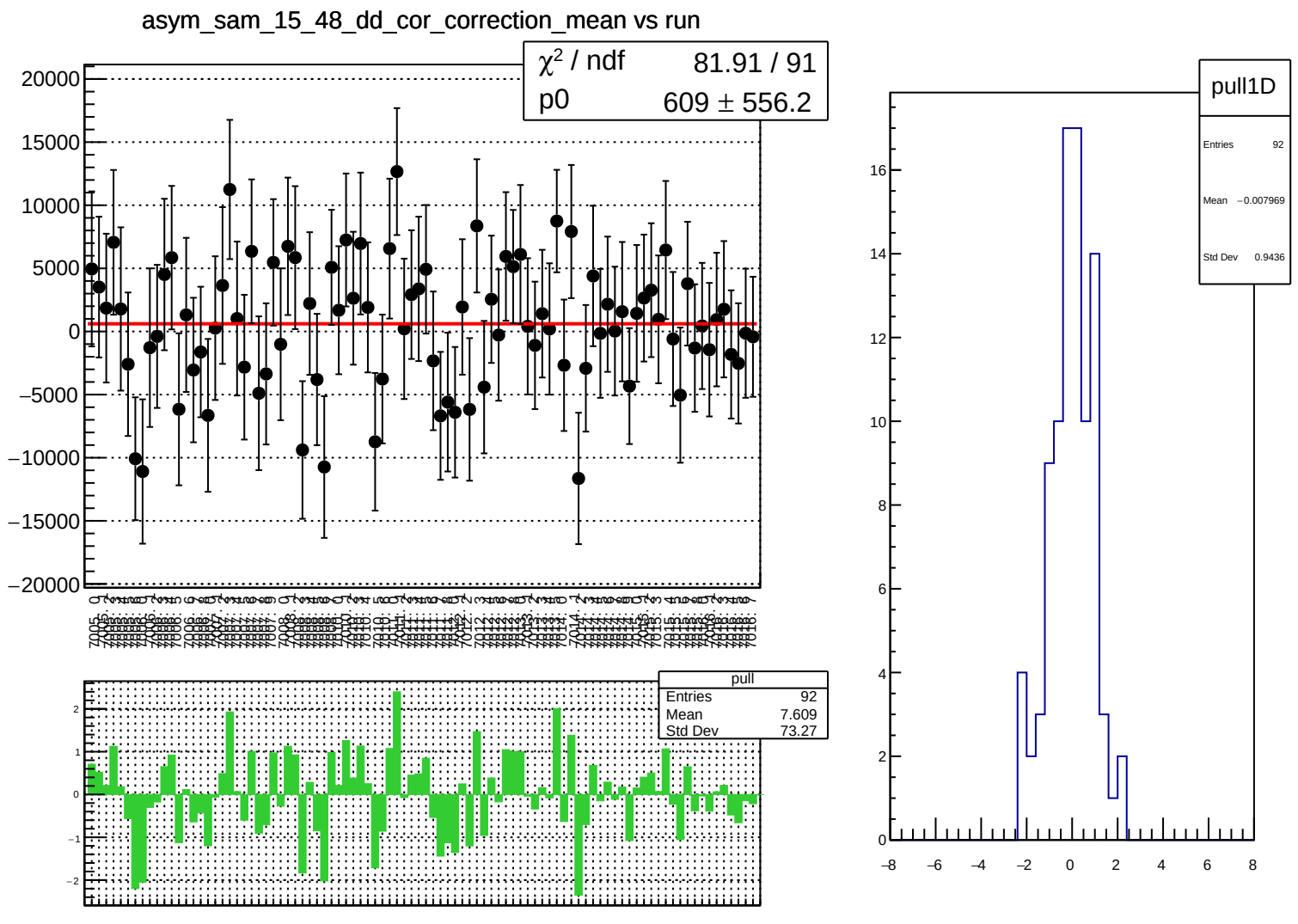

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 81.91 / 91
p0 608.9 ± 556.2
pull
Entries 92
Mean 7.612
Std Dev 73.27
pull1D
Entries 92
Mean −0.007969
Std Dev 0.9436

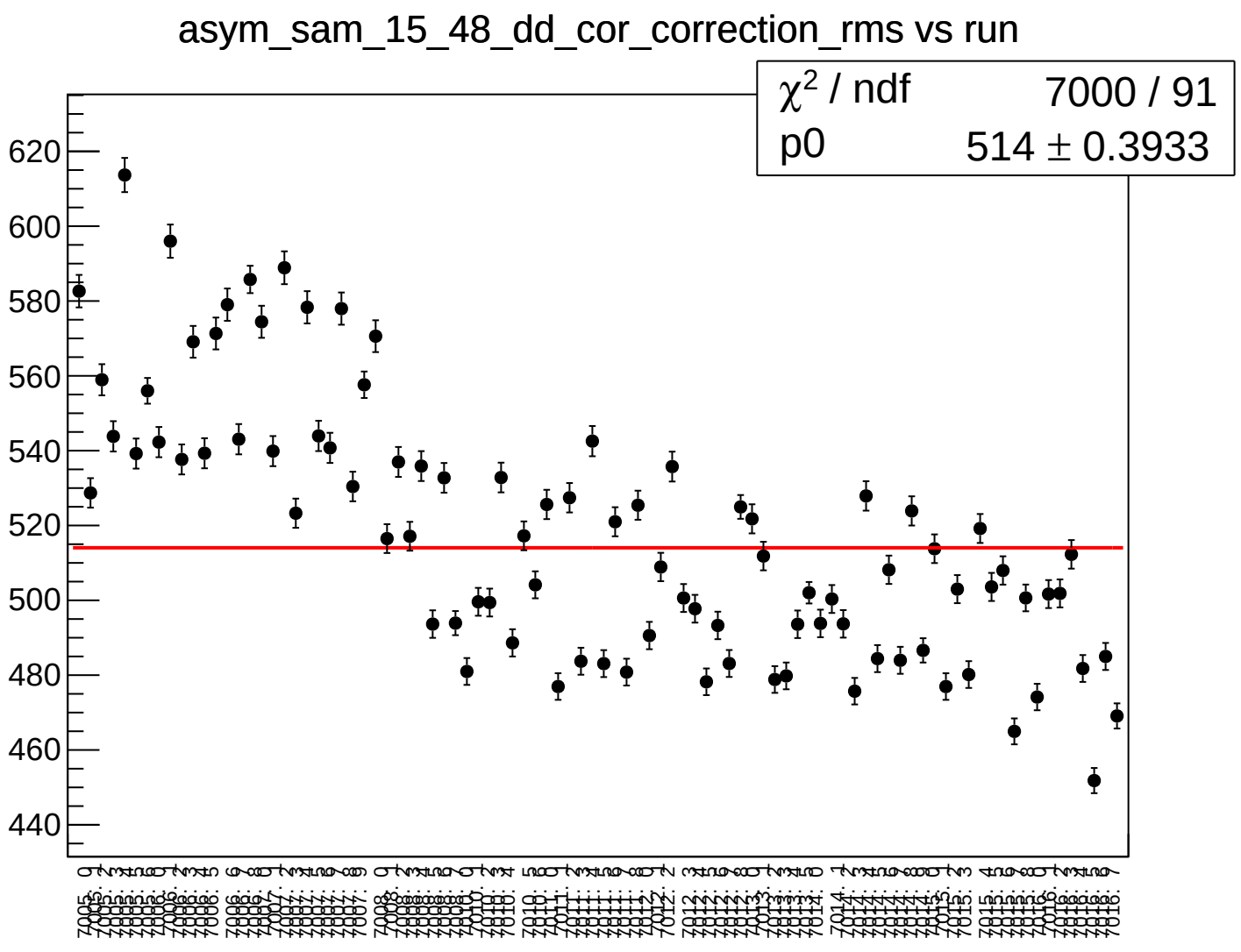

asym_sam_15_48_dd_reg_correction_rms vs run
$\chi^2$ / ndf 7000 / 91
p0 514 ± 0.3933
620
600
580
560
540
520
500
480
460
440

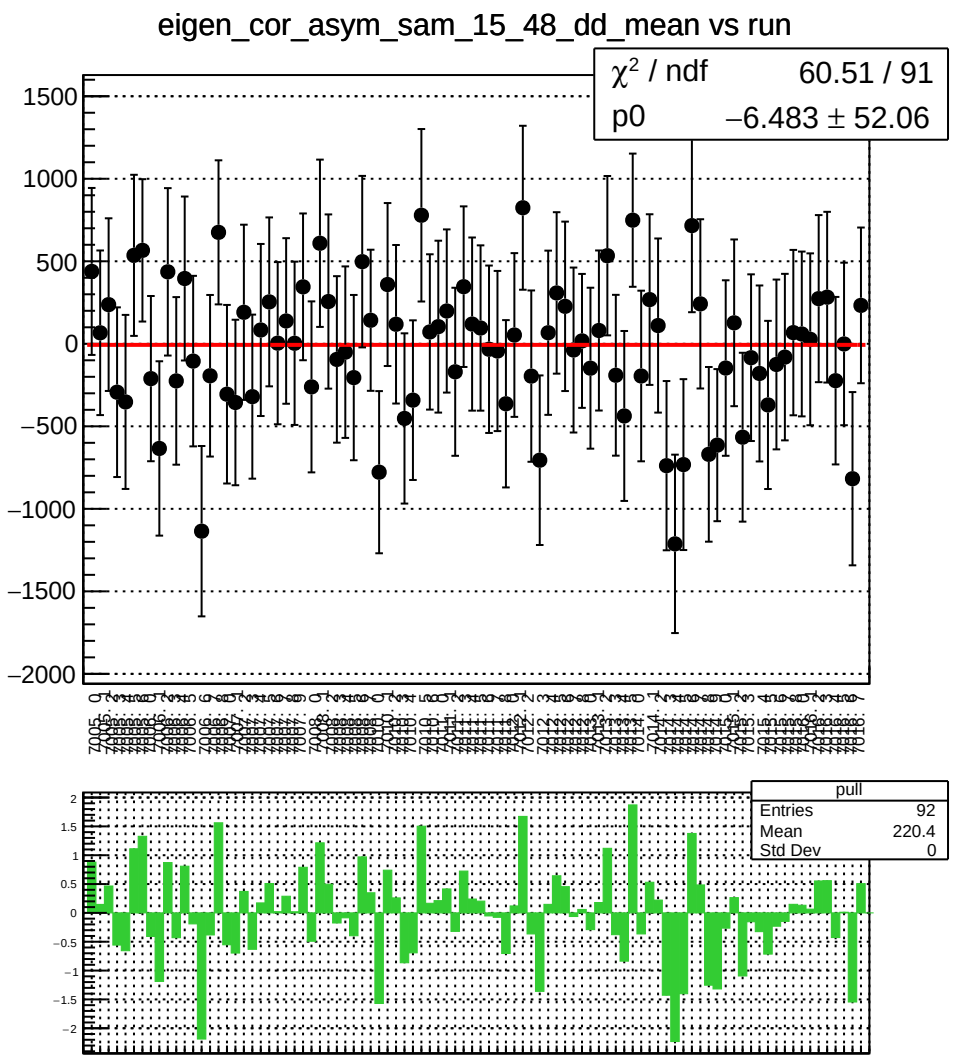

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 60.51 / 91
p0 −6.483 ± 52.06
pull
Entries 92
Mean 220.4
Std Dev 0

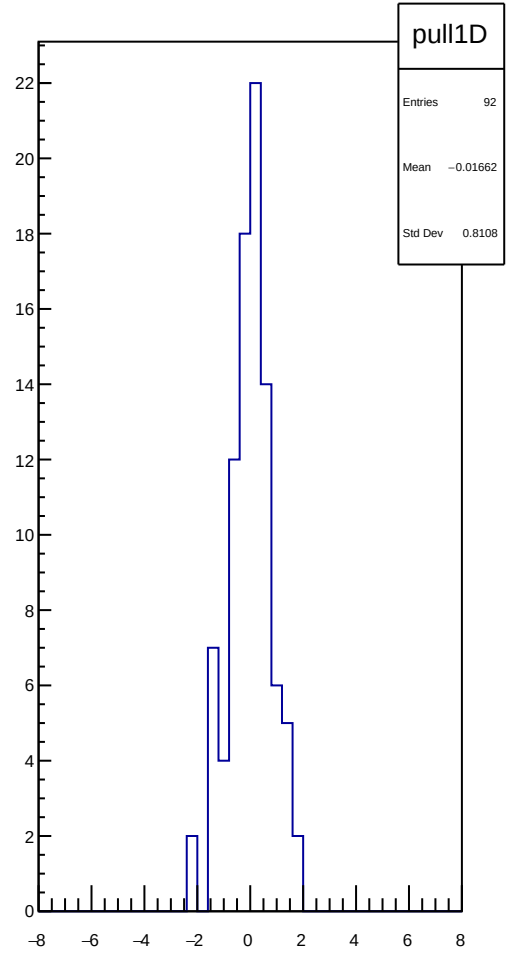

pull1D
Entries 92
Mean −0.01662
Std Dev 0.8108

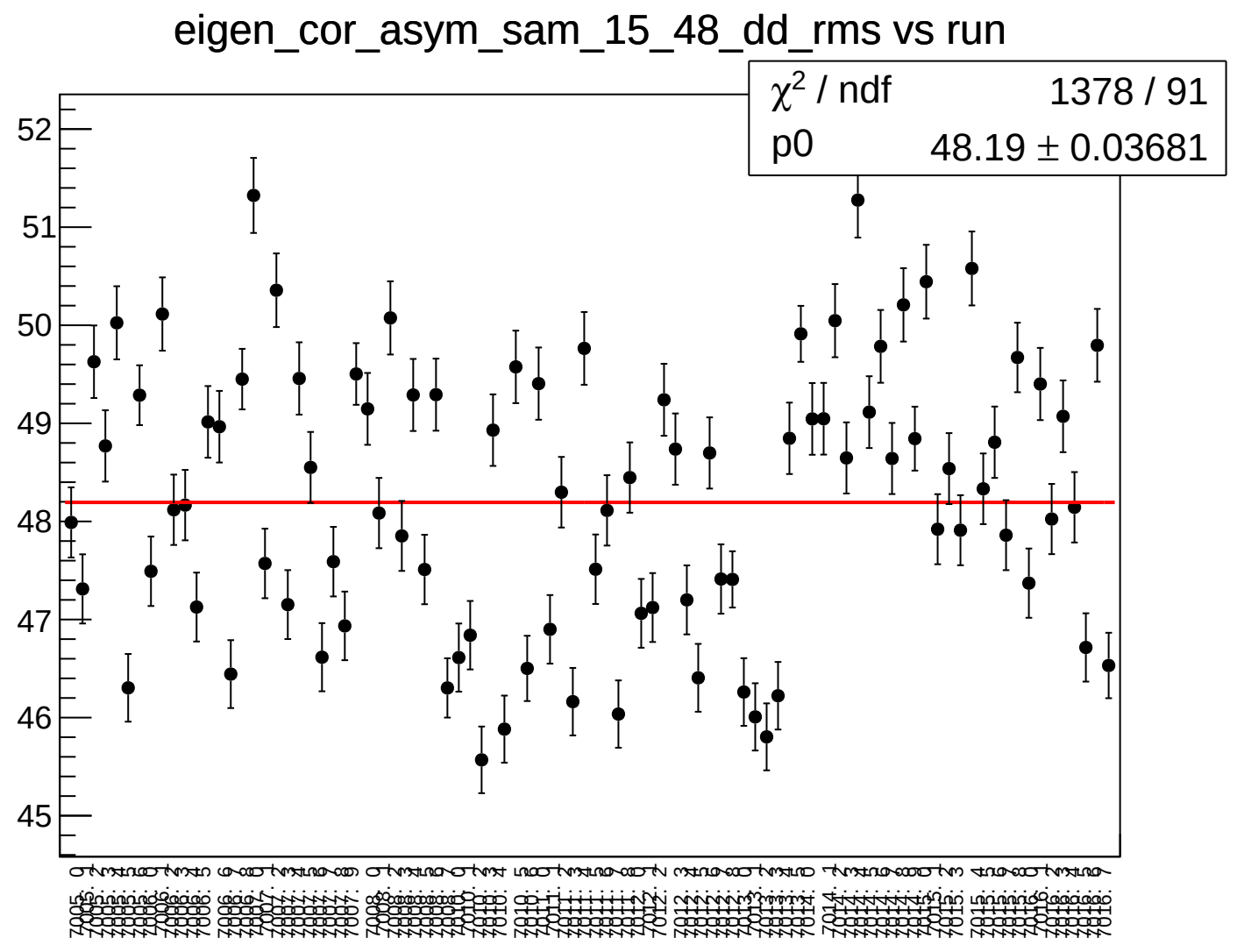

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1378 / 91
p0 48.19 ± 0.03681
52
51
50
49
48
47
46
45

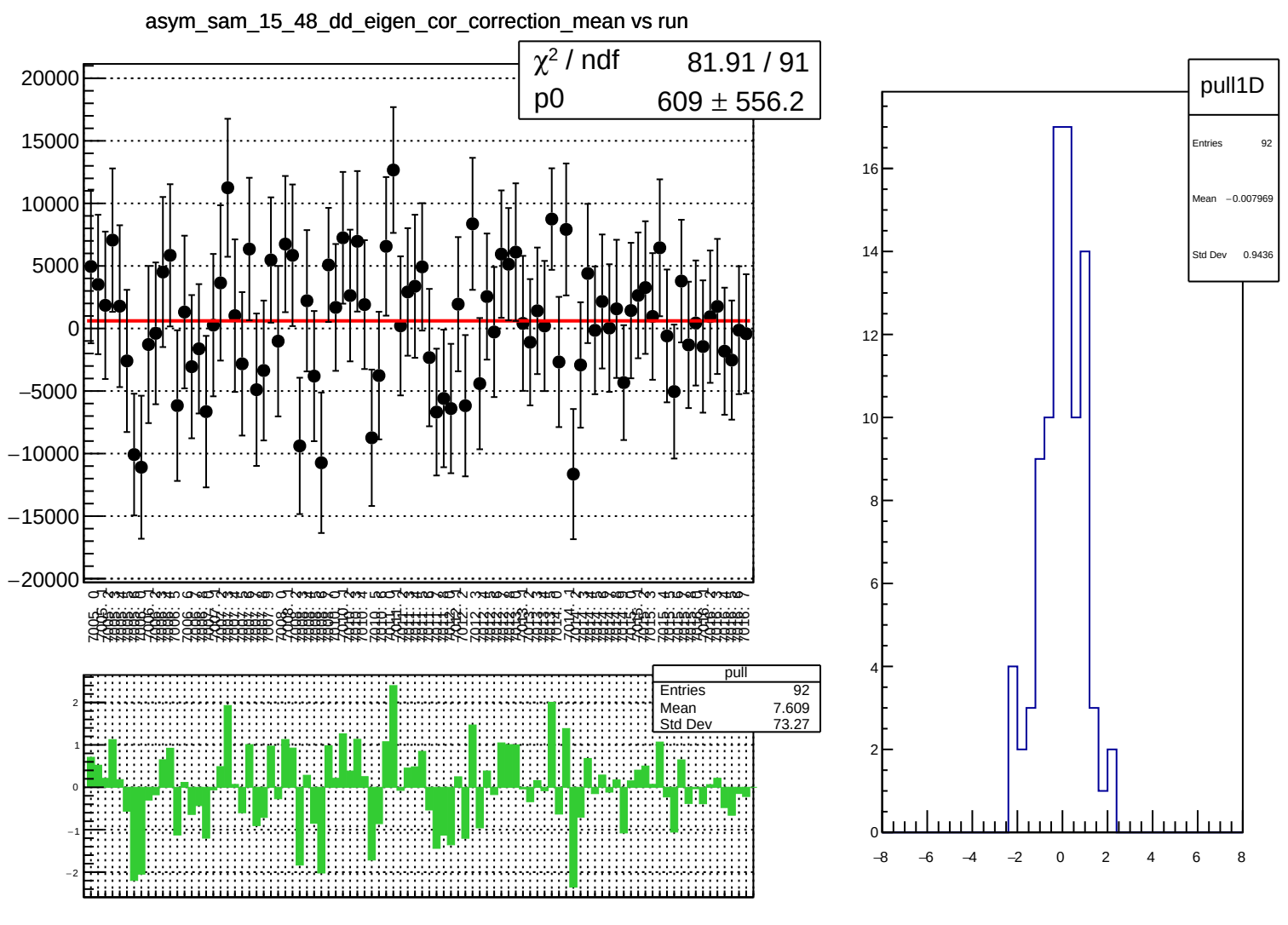

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 81.91 / 91
p0 609 ± 556.2
pull
Entries 92
Mean 7.609
Std Dev 73.27
pull1D
Entries 92
Mean −0.007969
Std Dev 0.9436

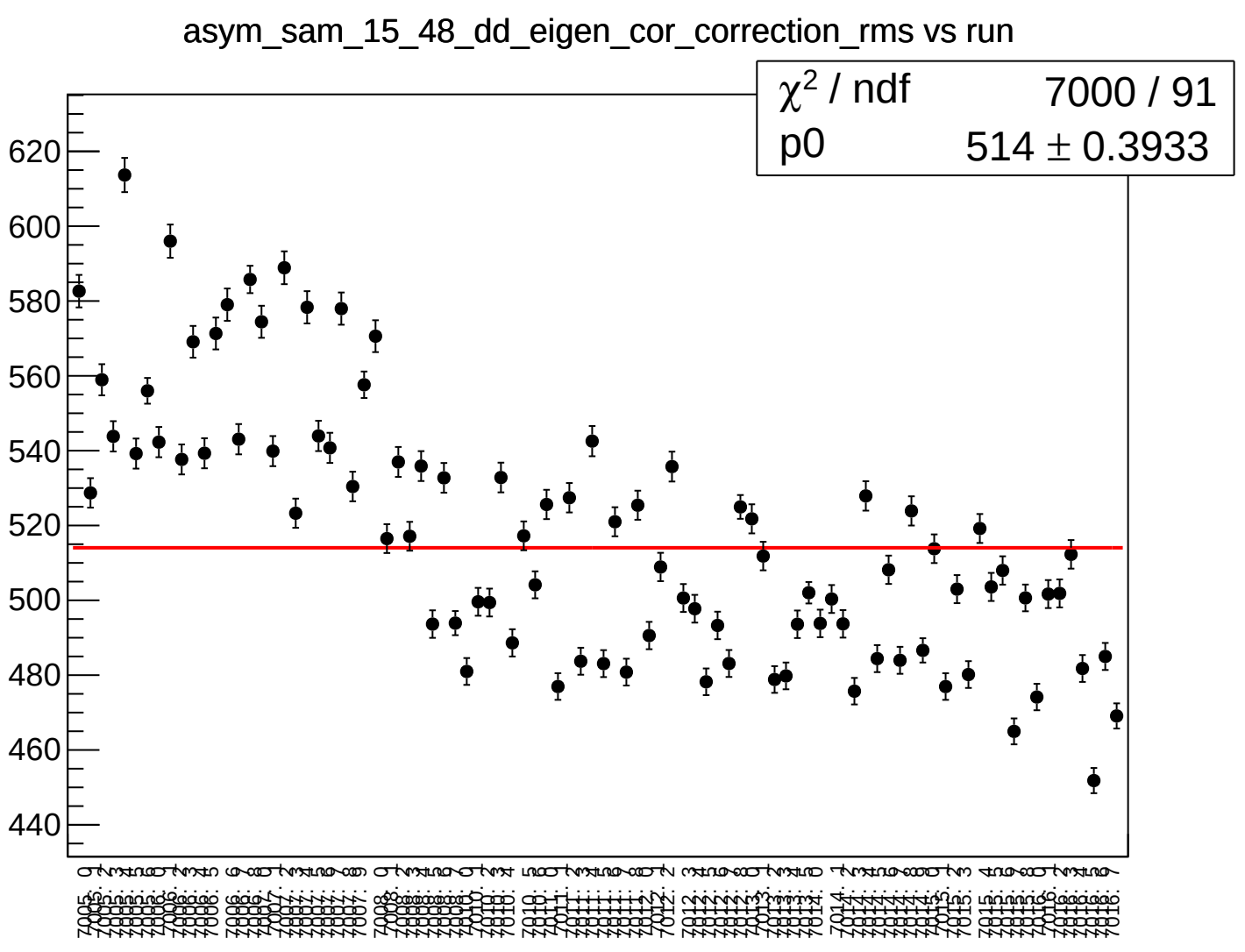

asym_sam_15_48_dd_cor_correction_rms vs run
$\chi^2$ / ndf 7000 / 91
p0 514 ± 0.3933
620
600
580
560
540
520
500
480
460
440

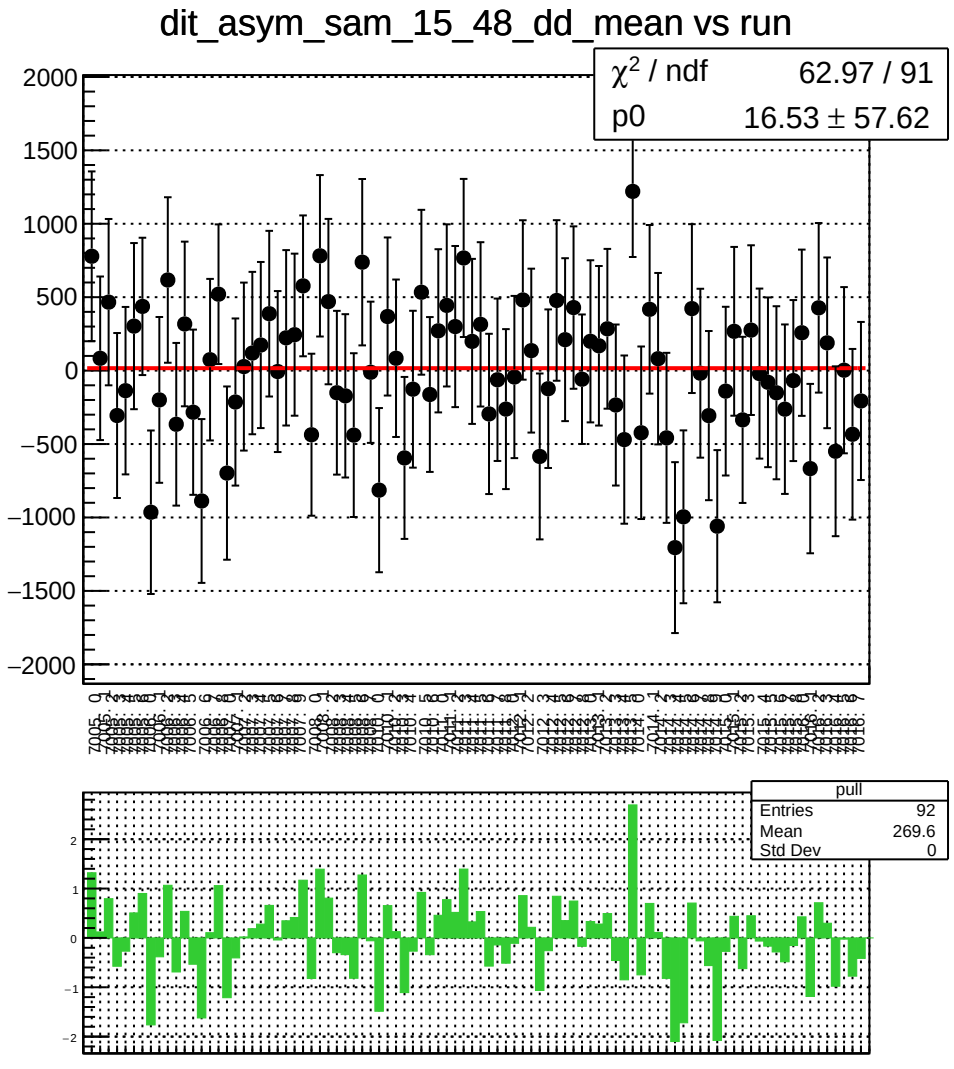

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 60.51 / 91
p0 −6.483 ± 52.06
pull
Entries 92
Mean 220.4
Std Dev 0

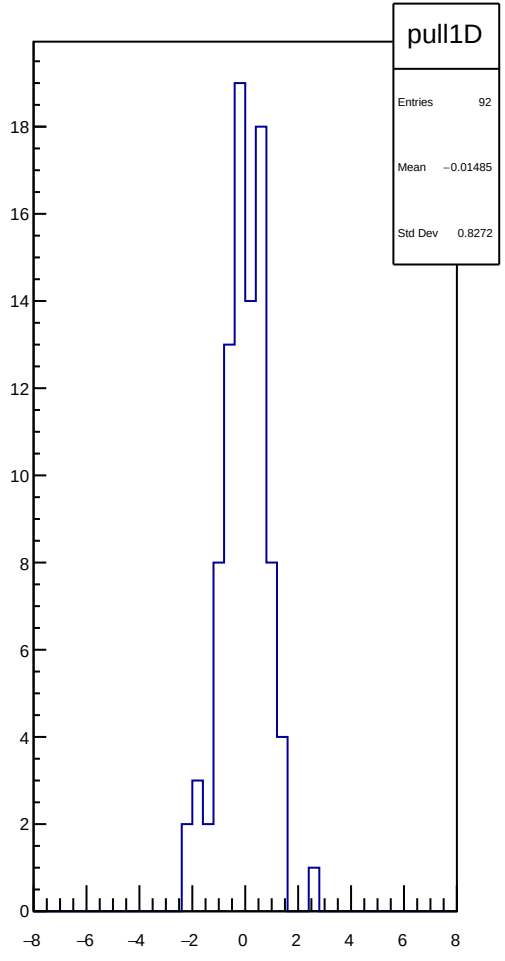

pull1D
Entries 92
Mean −0.01662
Std Dev 0.8108

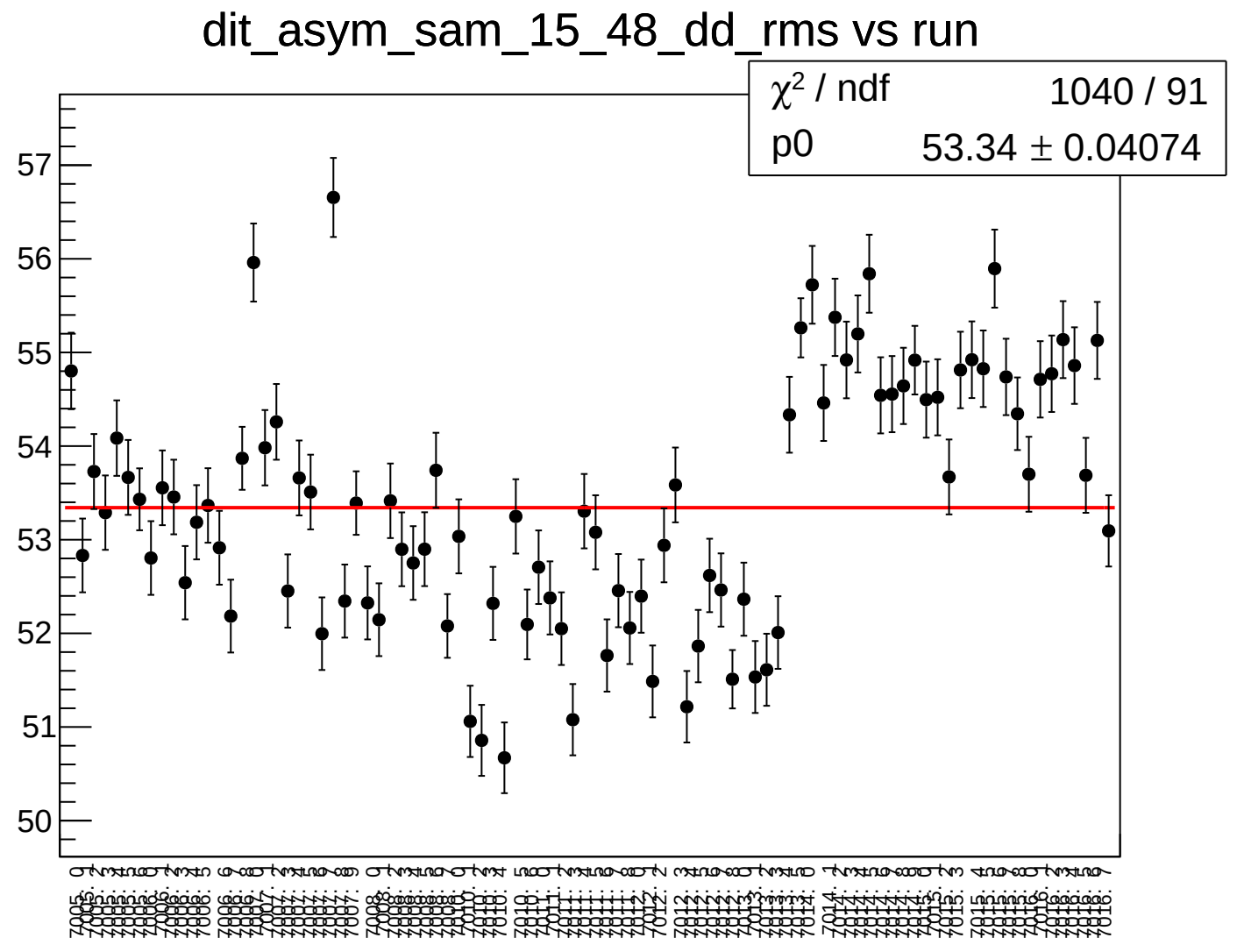

eigen_cor_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 1378 / 91
p0 48.19 ± 0.03681
52
51
50
49
48
47
46
45

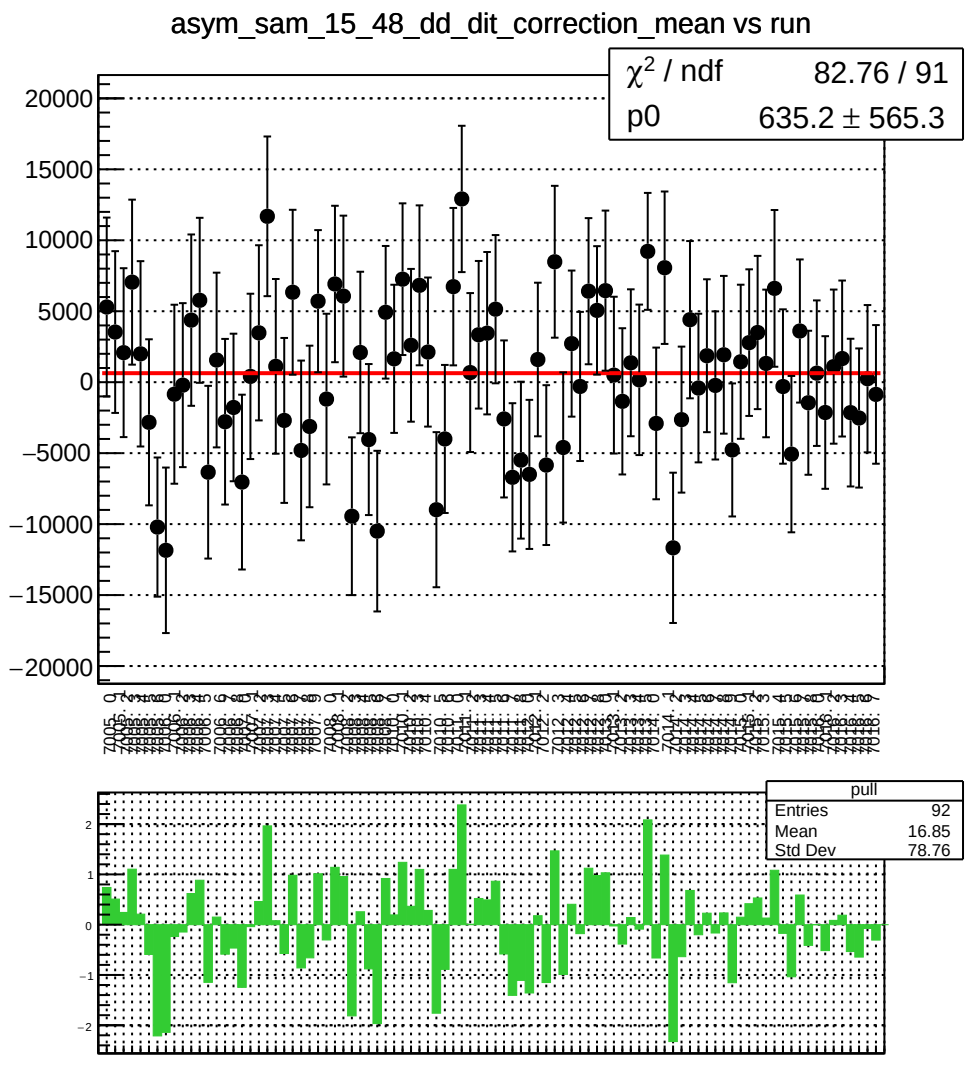

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.91 / 91
p0 609 ± 556.2
pull
Entries 92
Mean 7.609
Std Dev 73.27
pull1D
Entries 92
Mean −0.007969
Std Dev 0.9436

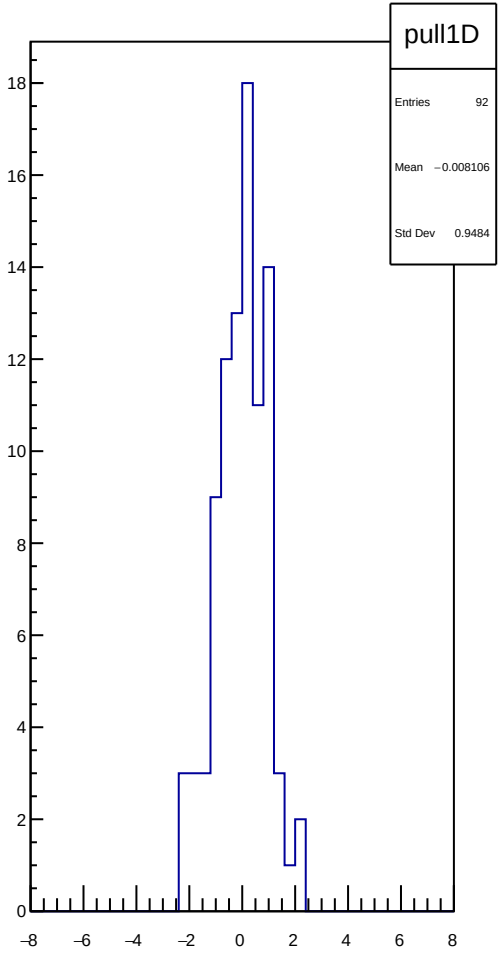

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 7000 / 91
p0 514 ± 0.3933
620
600
580
560
540
520
500
480
460
440

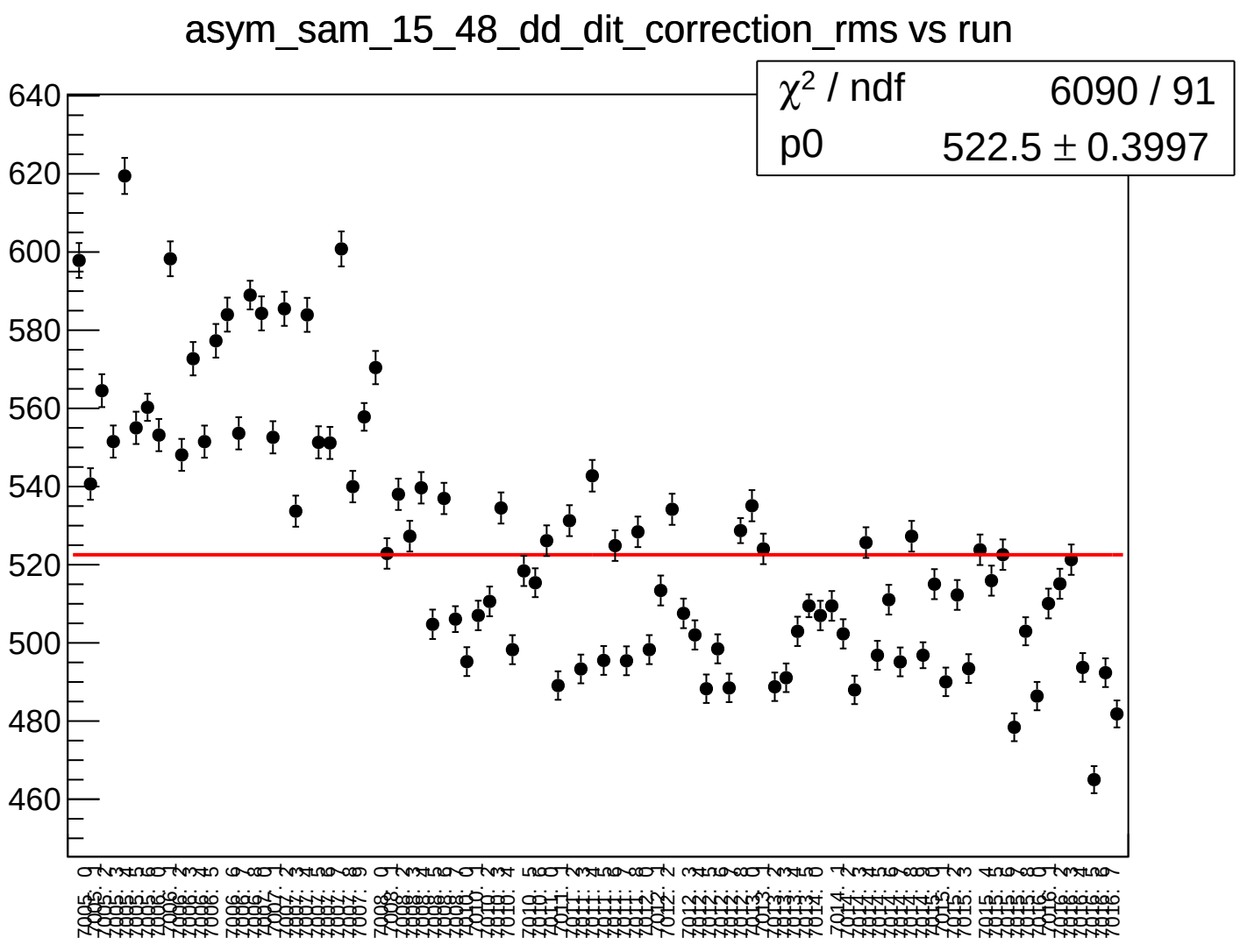

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 62.97 / 91
p0 16.53 ± 57.62
pull
Entries 92
Mean 269.6
Std Dev 0

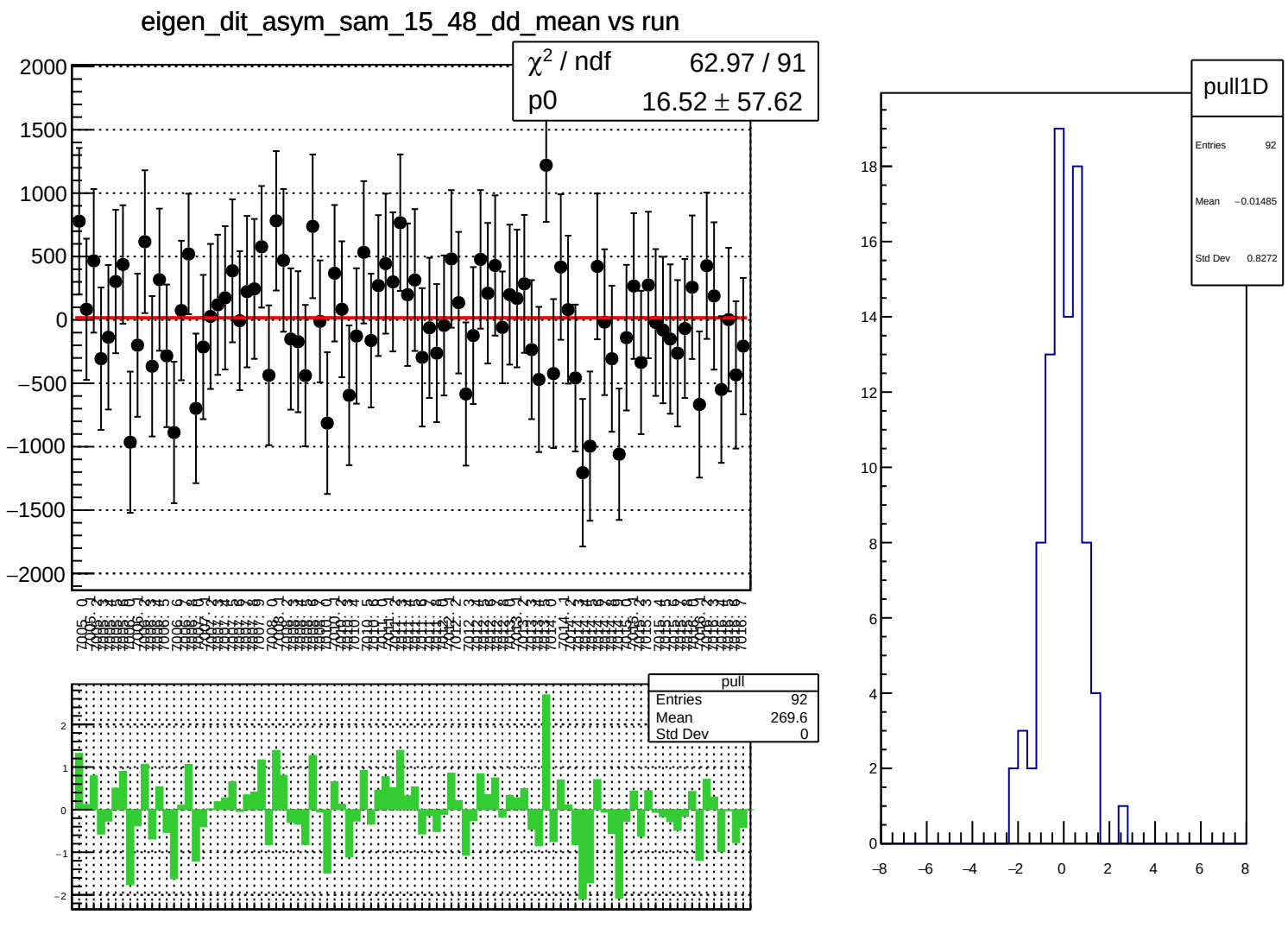

pull1D
Entries 92
Mean −0.01485
Std Dev 0.8272

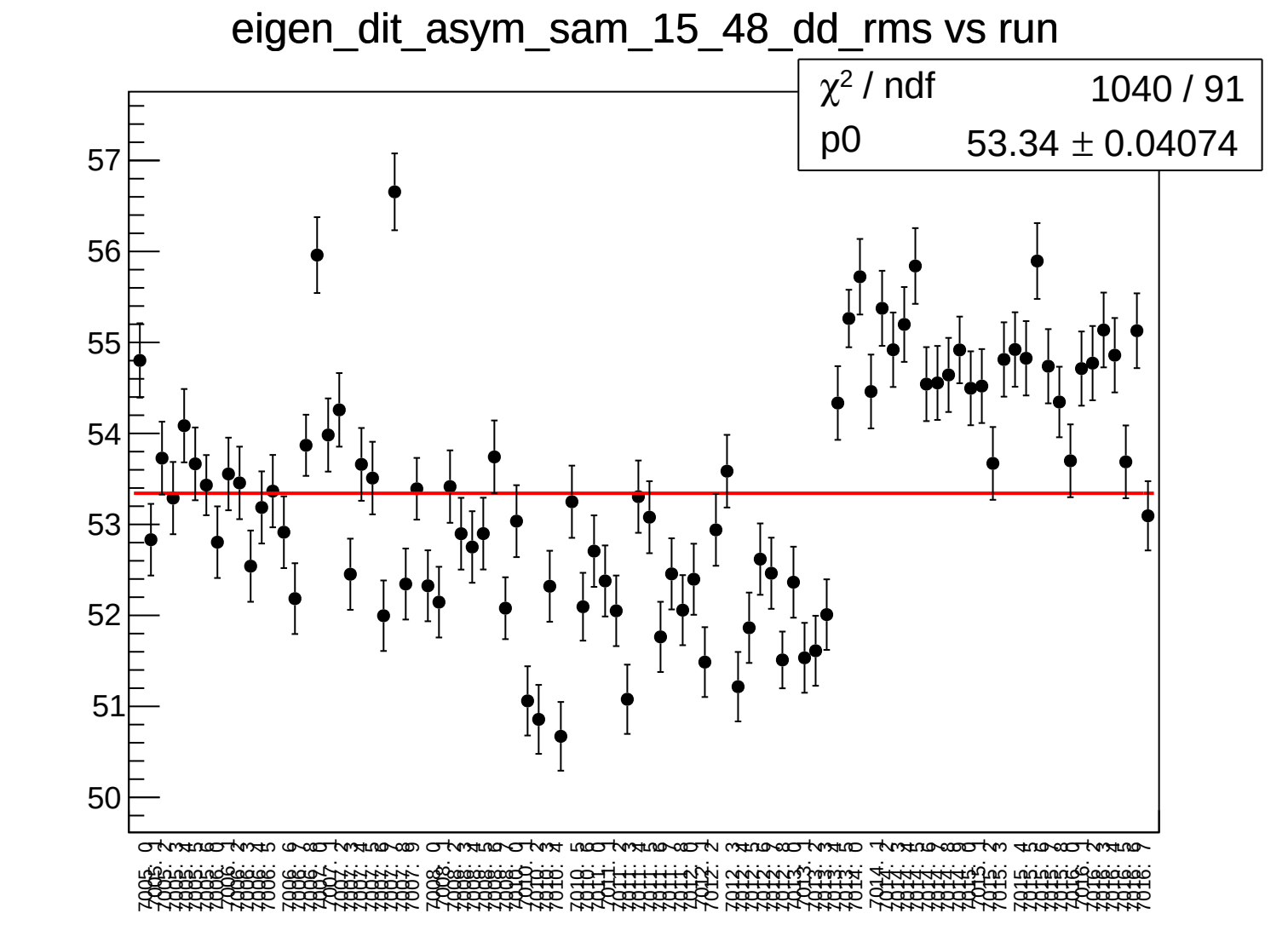

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1040 / 91
p0 53.34 ± 0.04074
57
56
55
54
53
52
51
50

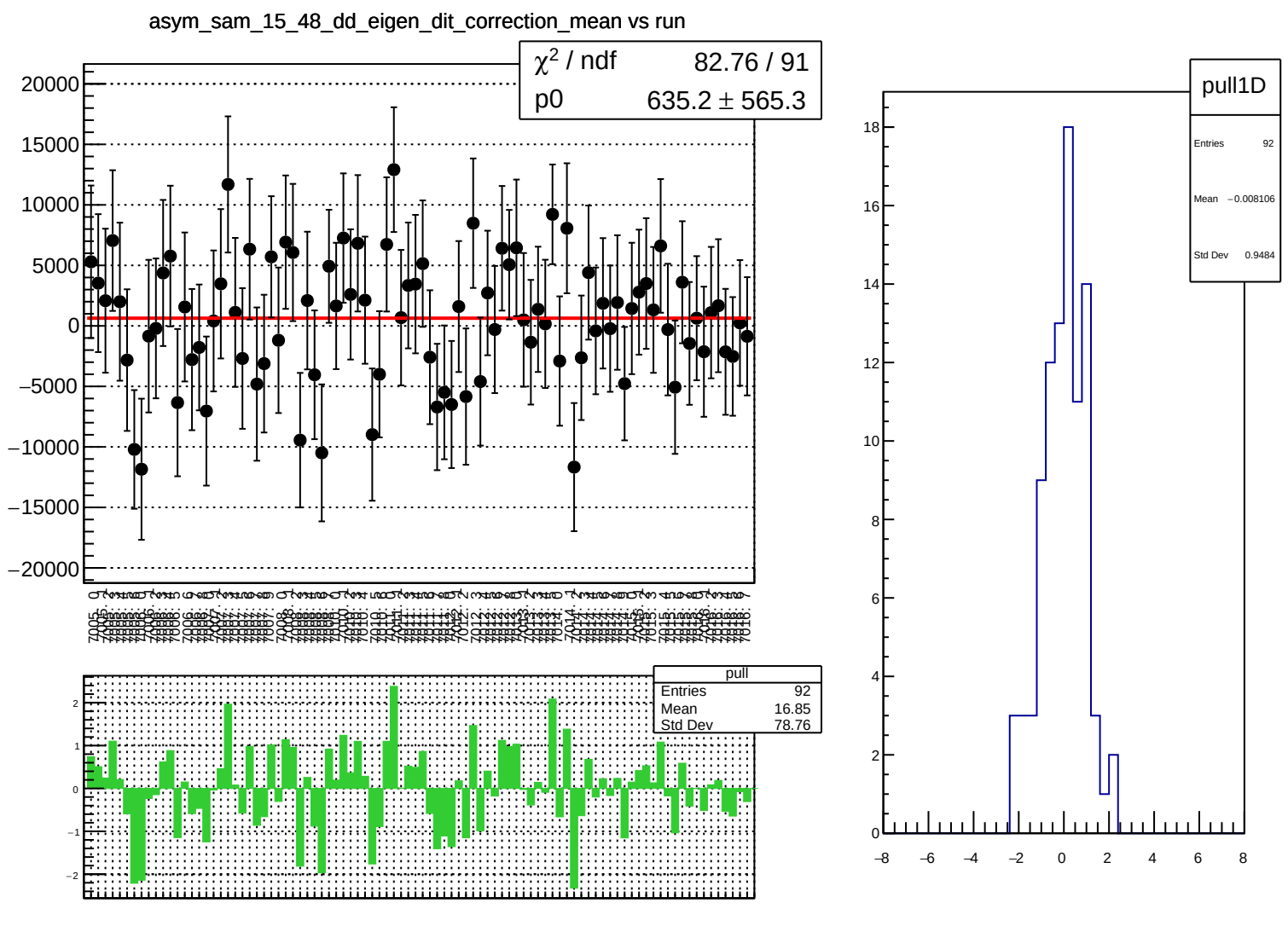

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 82.76 / 91
p0 635.2 ± 565.3
pull
Entries 92
Mean 16.85
Std Dev 78.76

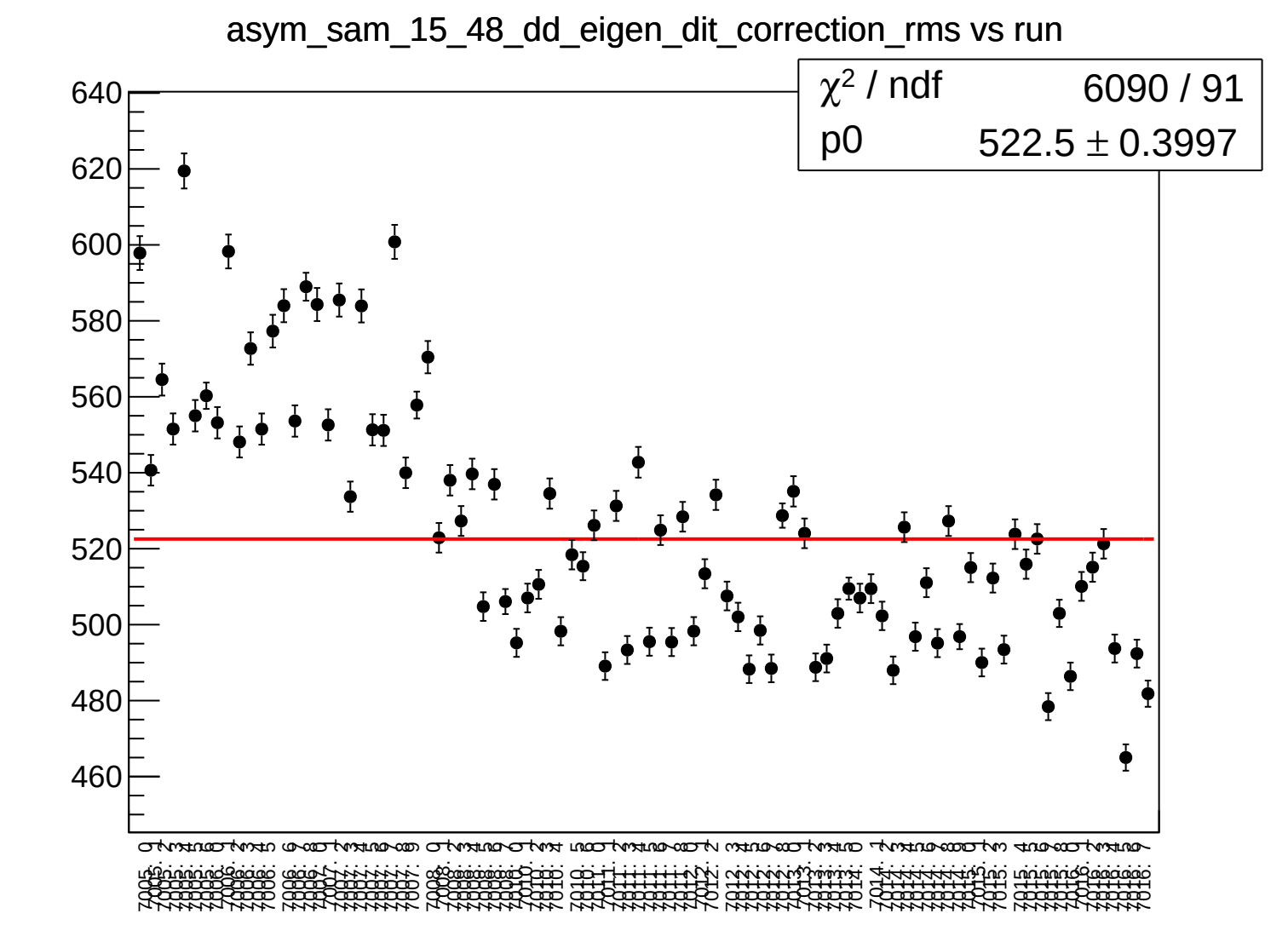

pull1D
Entries 92
Mean −0.008106
Std Dev 0.9484

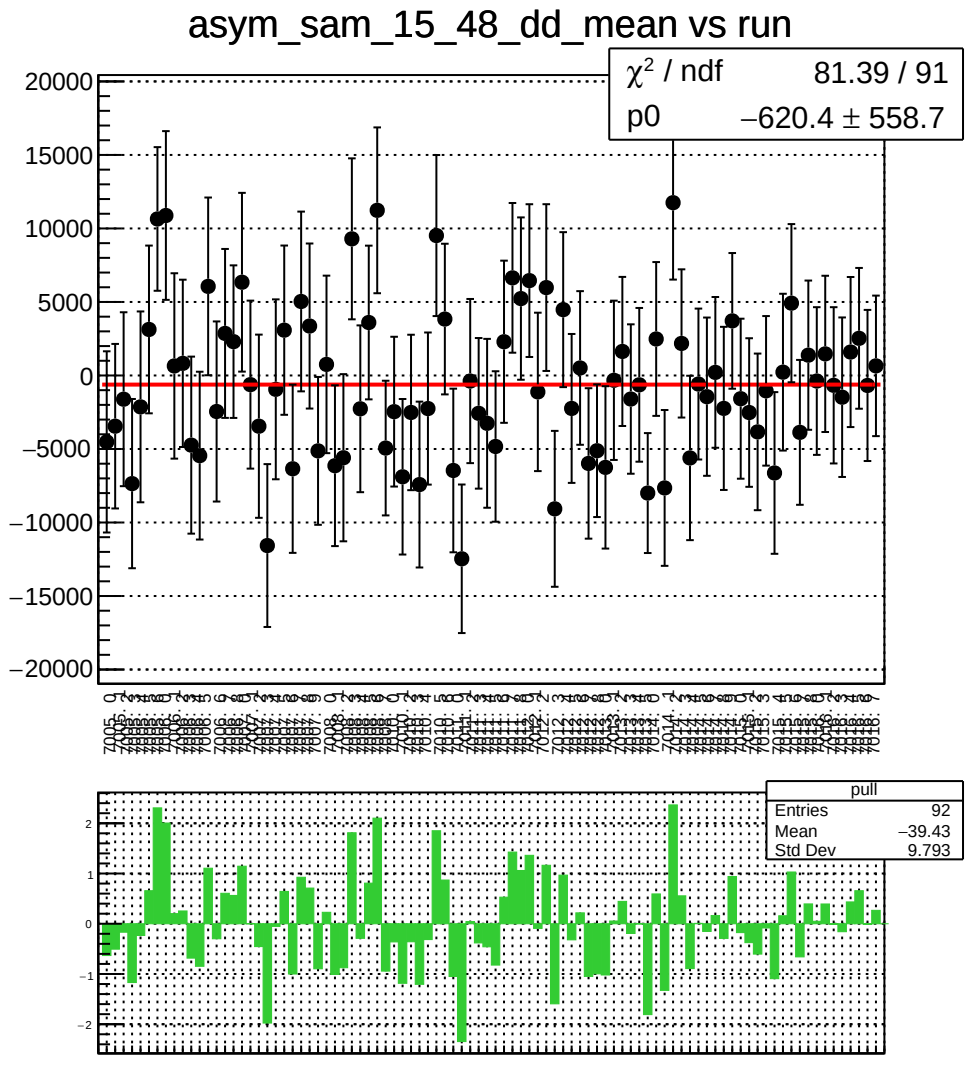

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 6090 / 91
p0 522.5 ± 0.3997
640
620
600
580
560
540
520
500
480
460

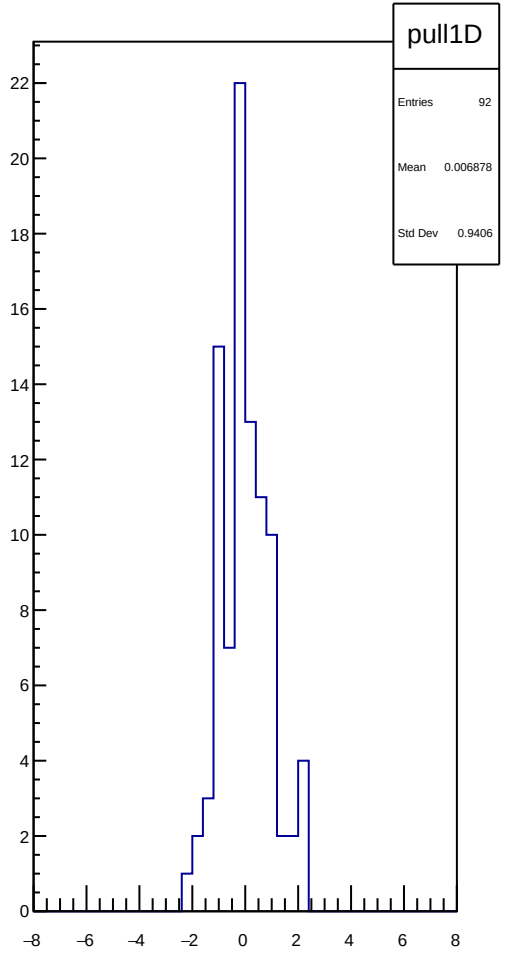

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 62.97 / 91
p0 16.52 ± 57.62
pull
Entries 92
Mean 269.6
Std Dev 0
pull1D
Entries 92
Mean −0.01485
Std Dev 0.8272

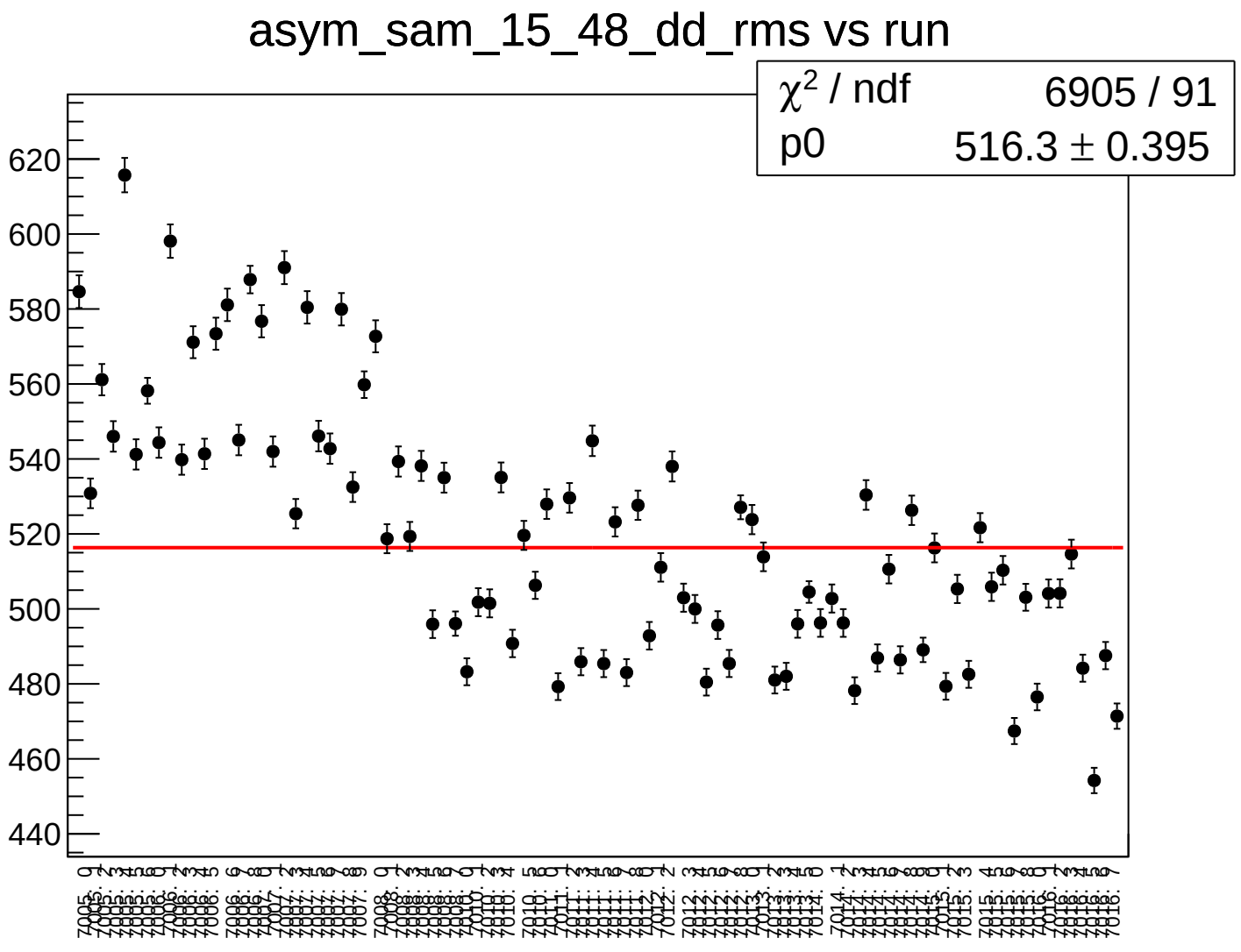

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1040 / 91
p0 53.34 ± 0.04074
57
56
55
54
53
52
51
50

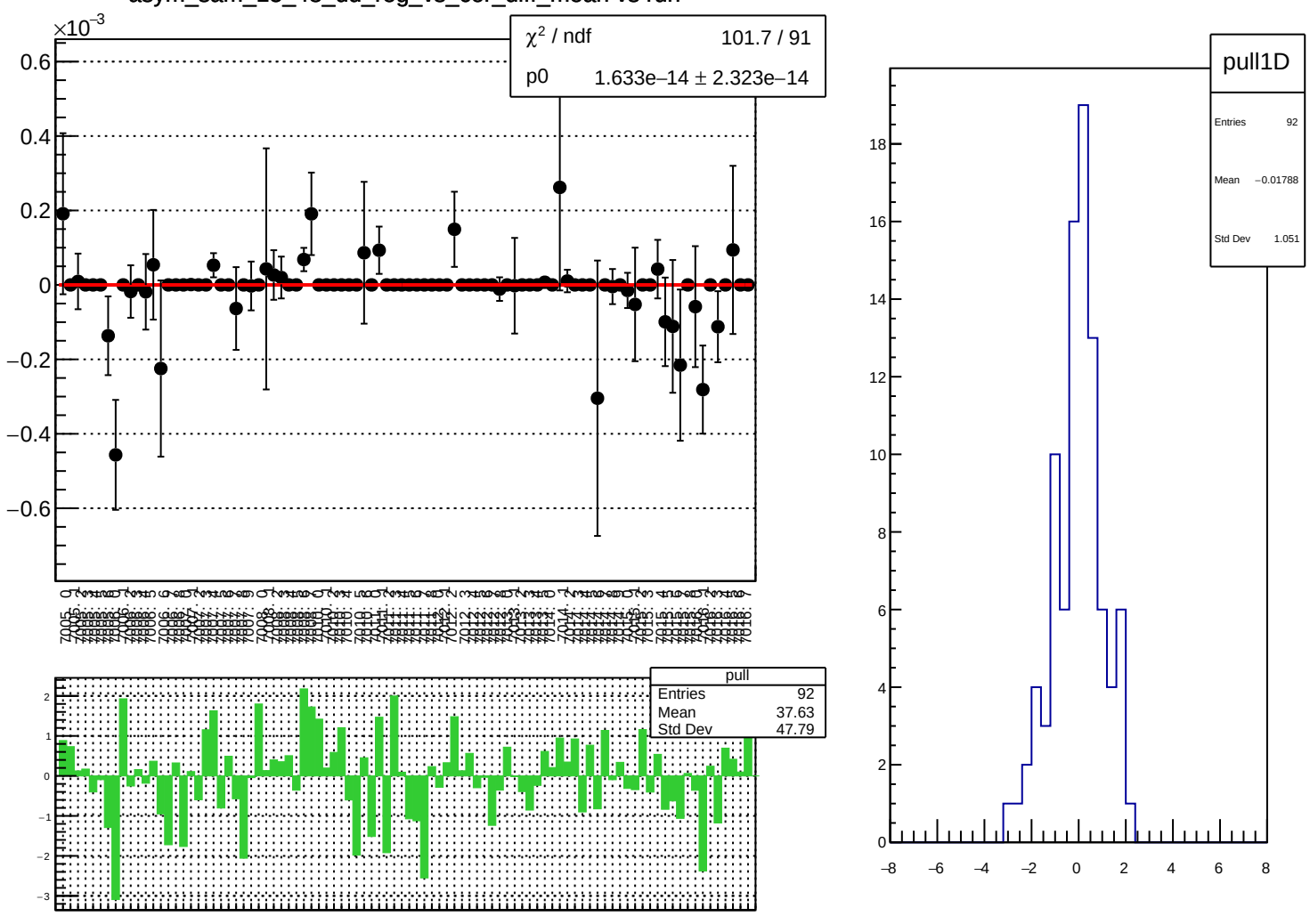

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.76 / 91
p0 635.2 ± 565.3
pull
Entries 92
Mean 16.85
Std Dev 78.76
pull1D
Entries 92
Mean −0.008106
Std Dev 0.9484

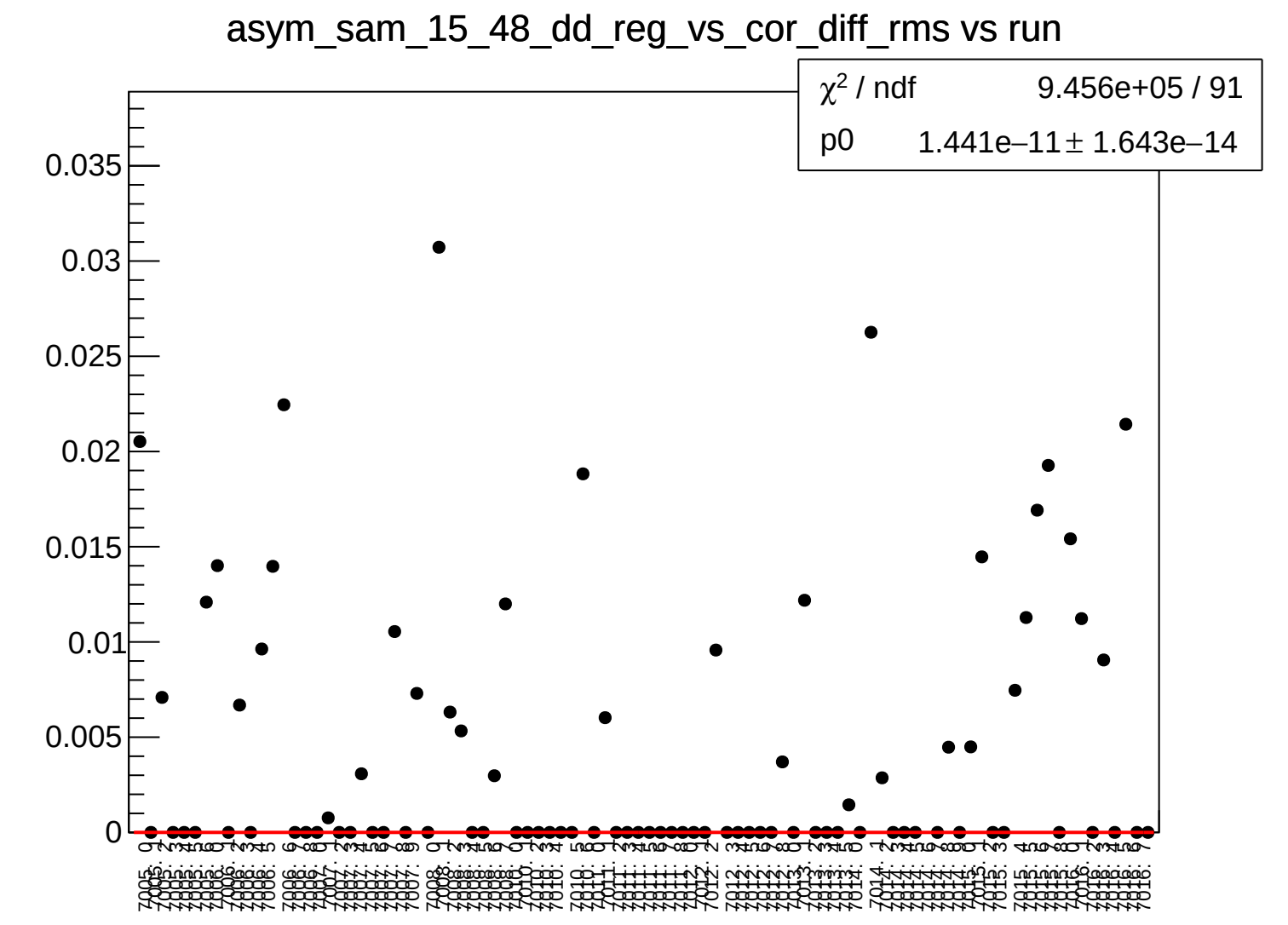

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 6090 / 91
p0 522.5 ± 0.3997
640
620
600
580
560
540
520
500
480
460

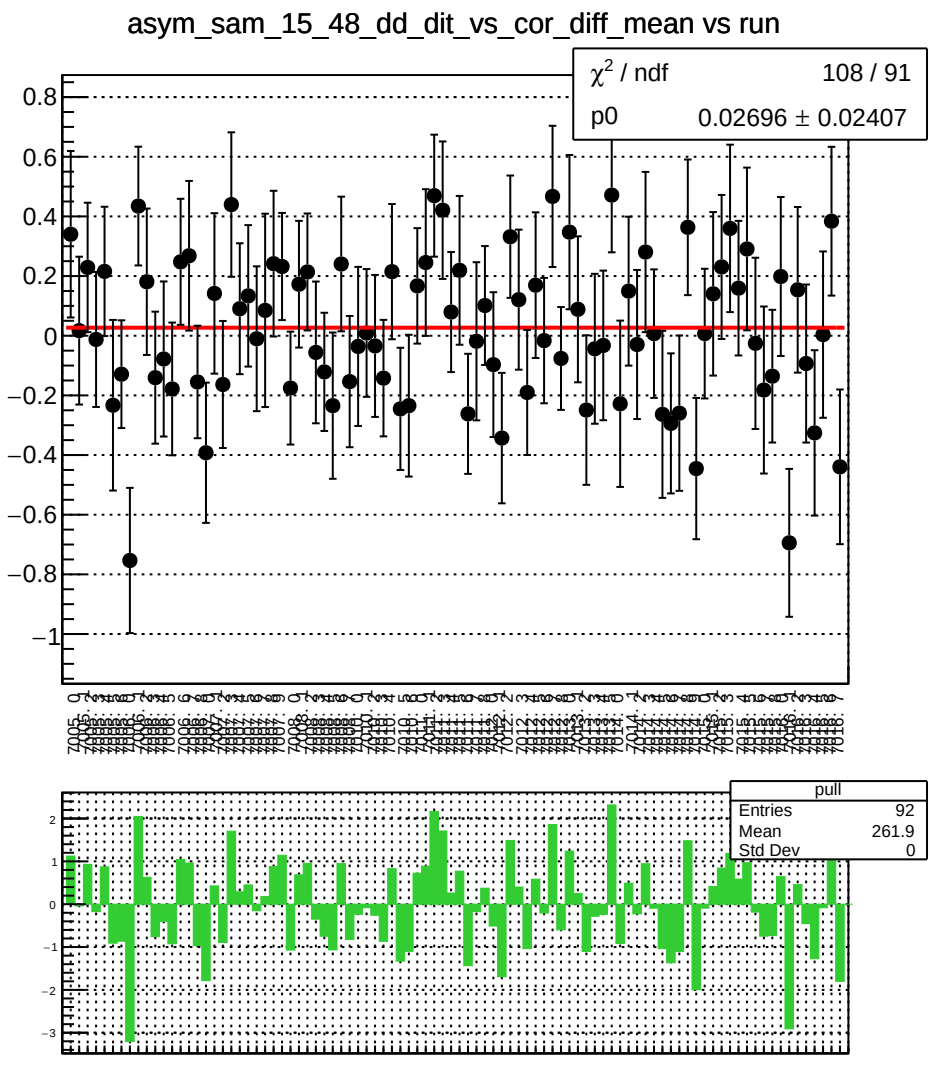

asym_sam_15_48_dd_mean vs run
χ² / ndf 81.39 / 91
p0 −620.4 ± 558.7
pull
Entries 92
Mean −39.43
Std Dev 9.793

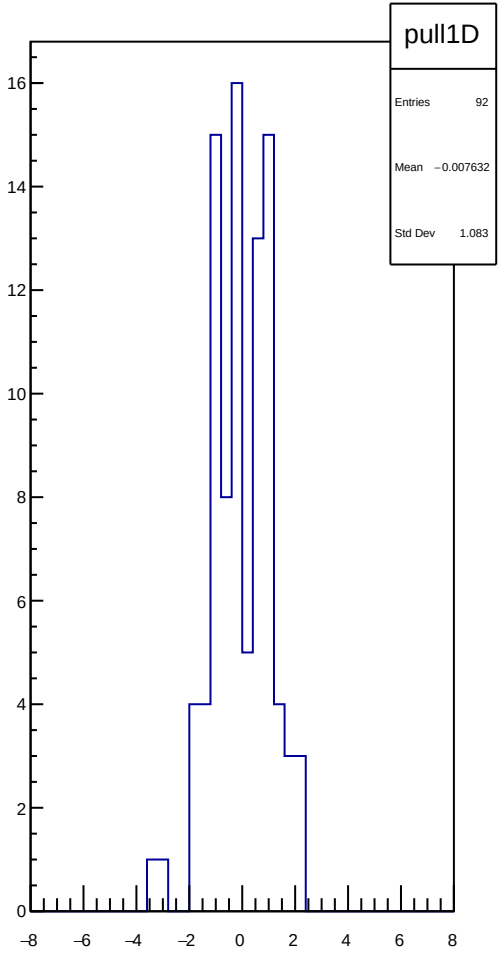

pull1D
Entries 92
Mean 0.006878
Std Dev 0.9406

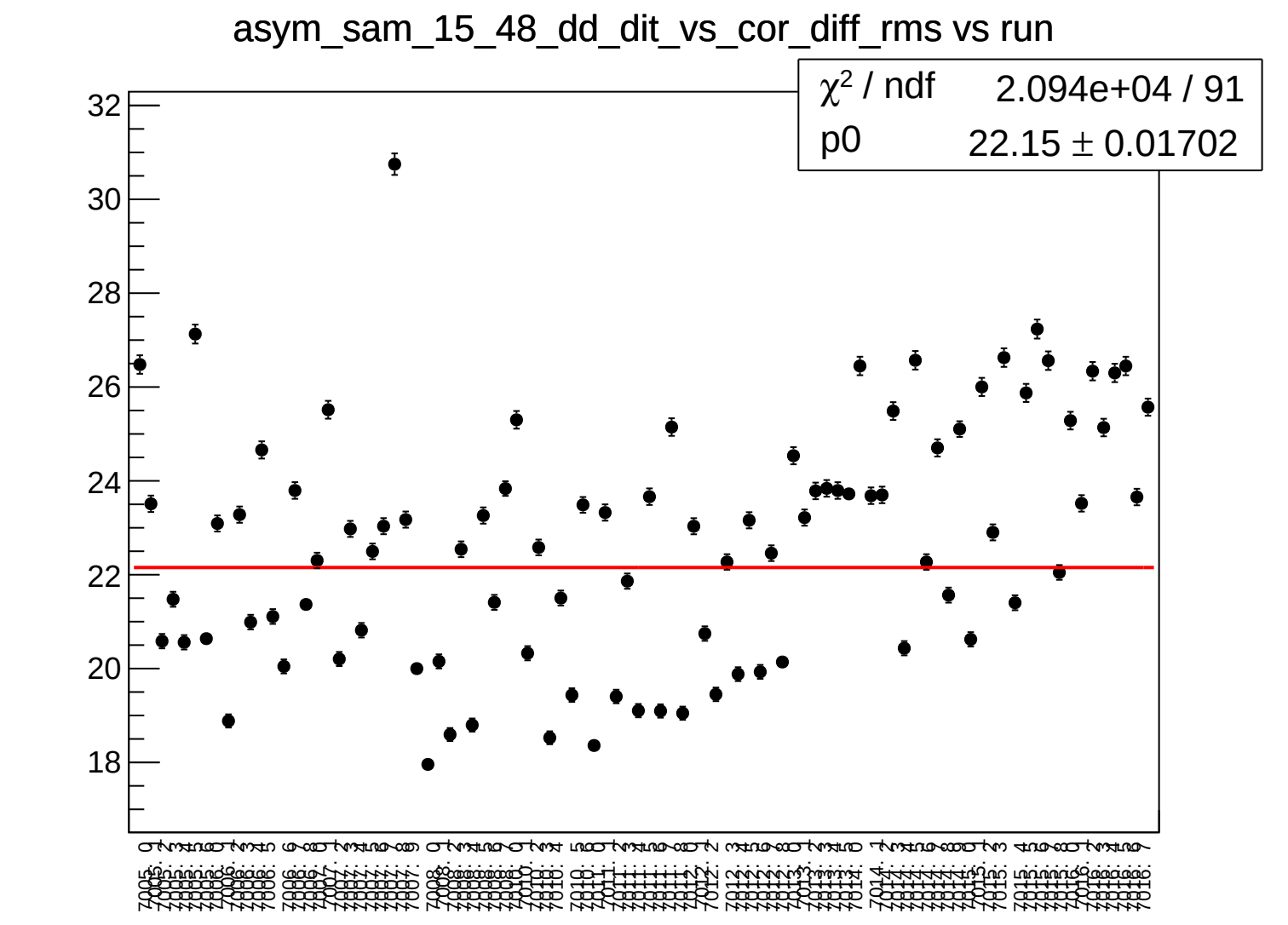

asym_sam_15_48_dd_rms vs run
χ² / ndf 6905 / 91
p0 516.3 ± 0.395
620
600
580
560
540
520
500
480
460
440

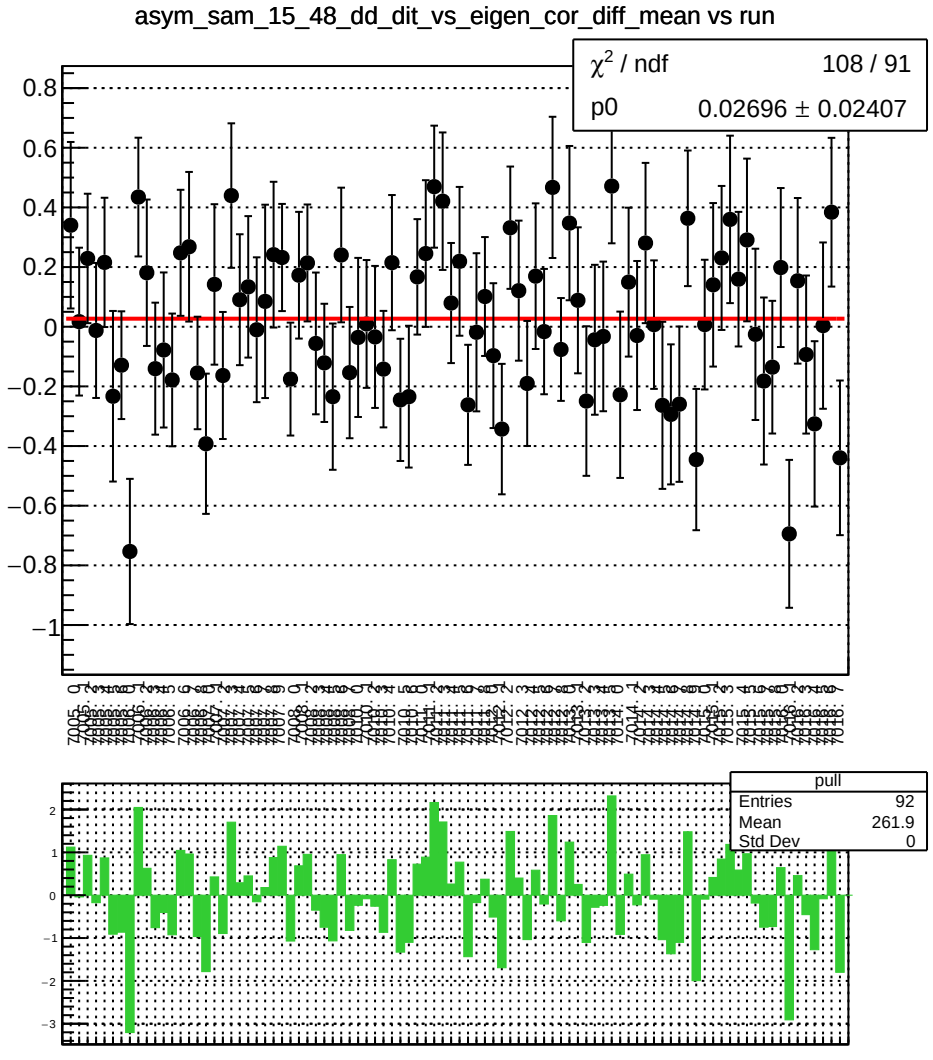

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 91
p0 1.633e−14 ± 2.323e−14
pull
Entries 92
Mean 37.63
Std Dev 47.79
pull1D
Entries 92
Mean −0.01788
Std Dev 1.051

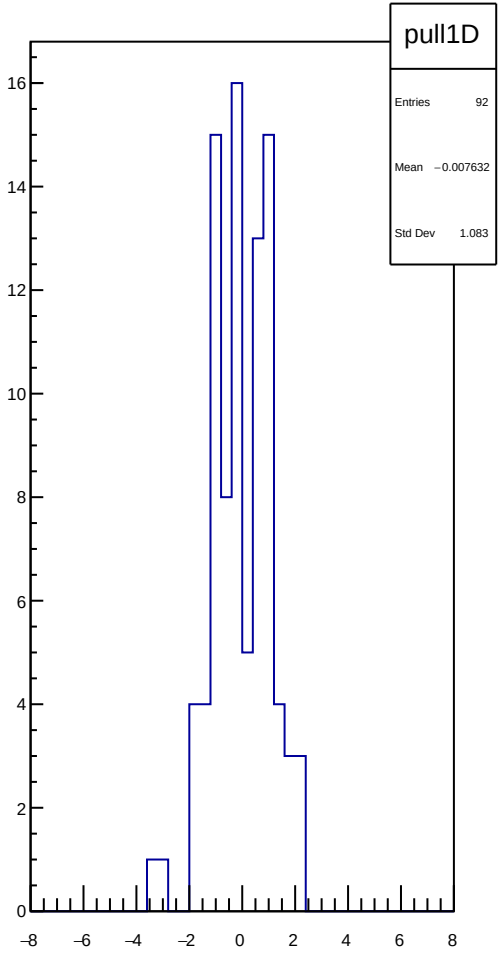

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.456e+05 / 91
p0 1.441e−11 ± 1.643e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

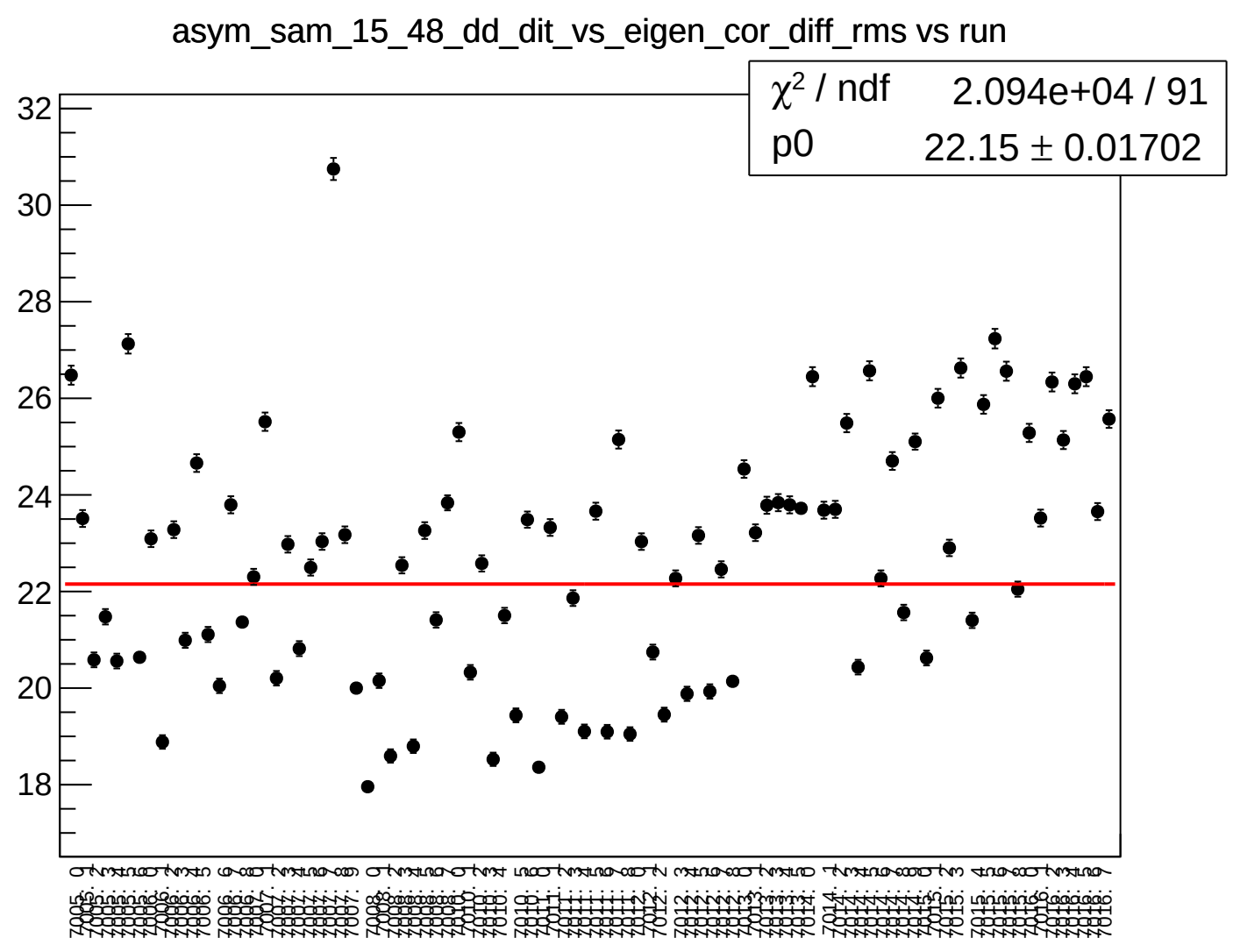

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108 / 91
p0 0.02696 ± 0.02407
pull
Entries 92
Mean 261.9
Std Dev 0

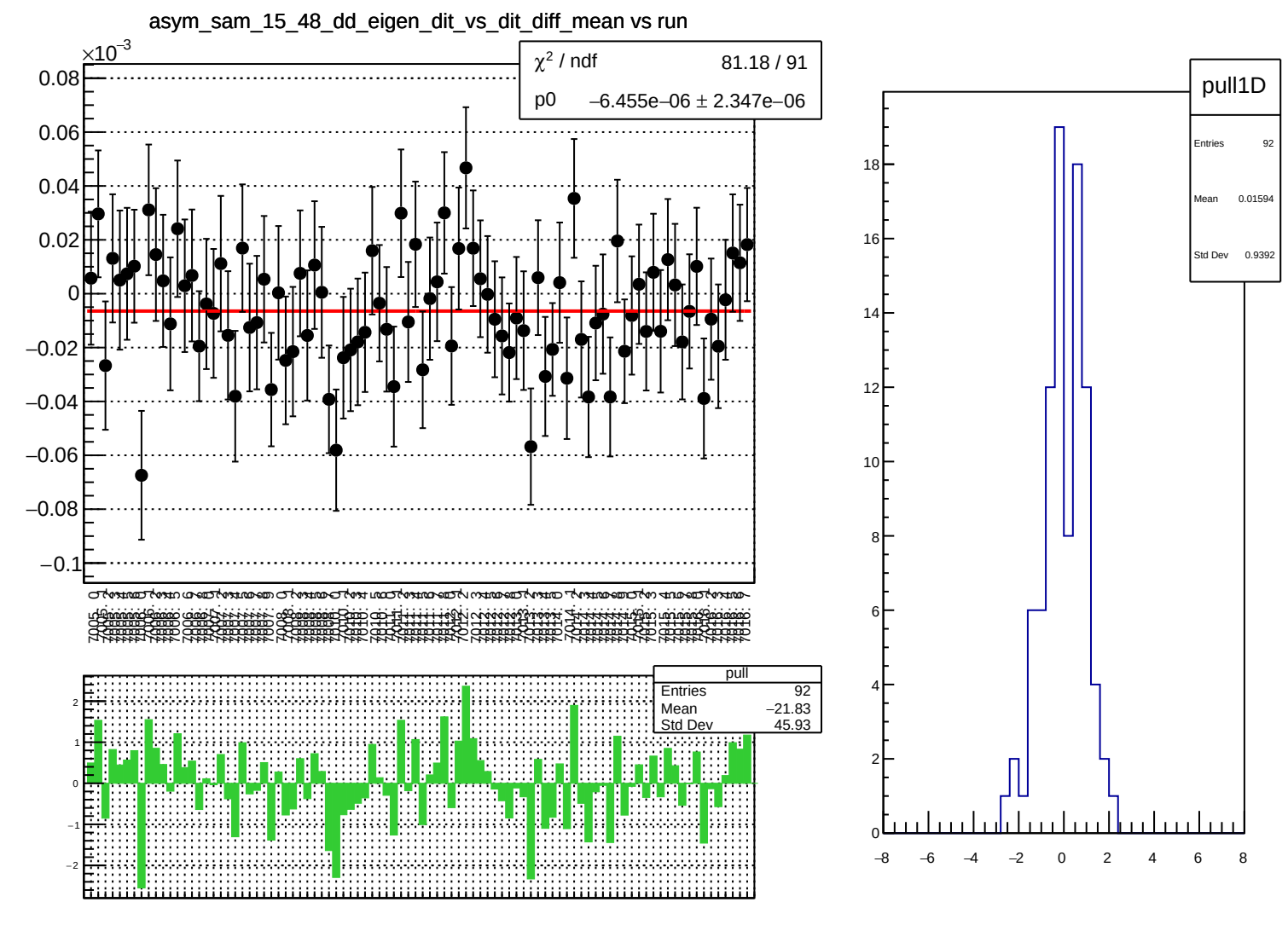

pull1D
Entries 92
Mean −0.007632
Std Dev 1.083

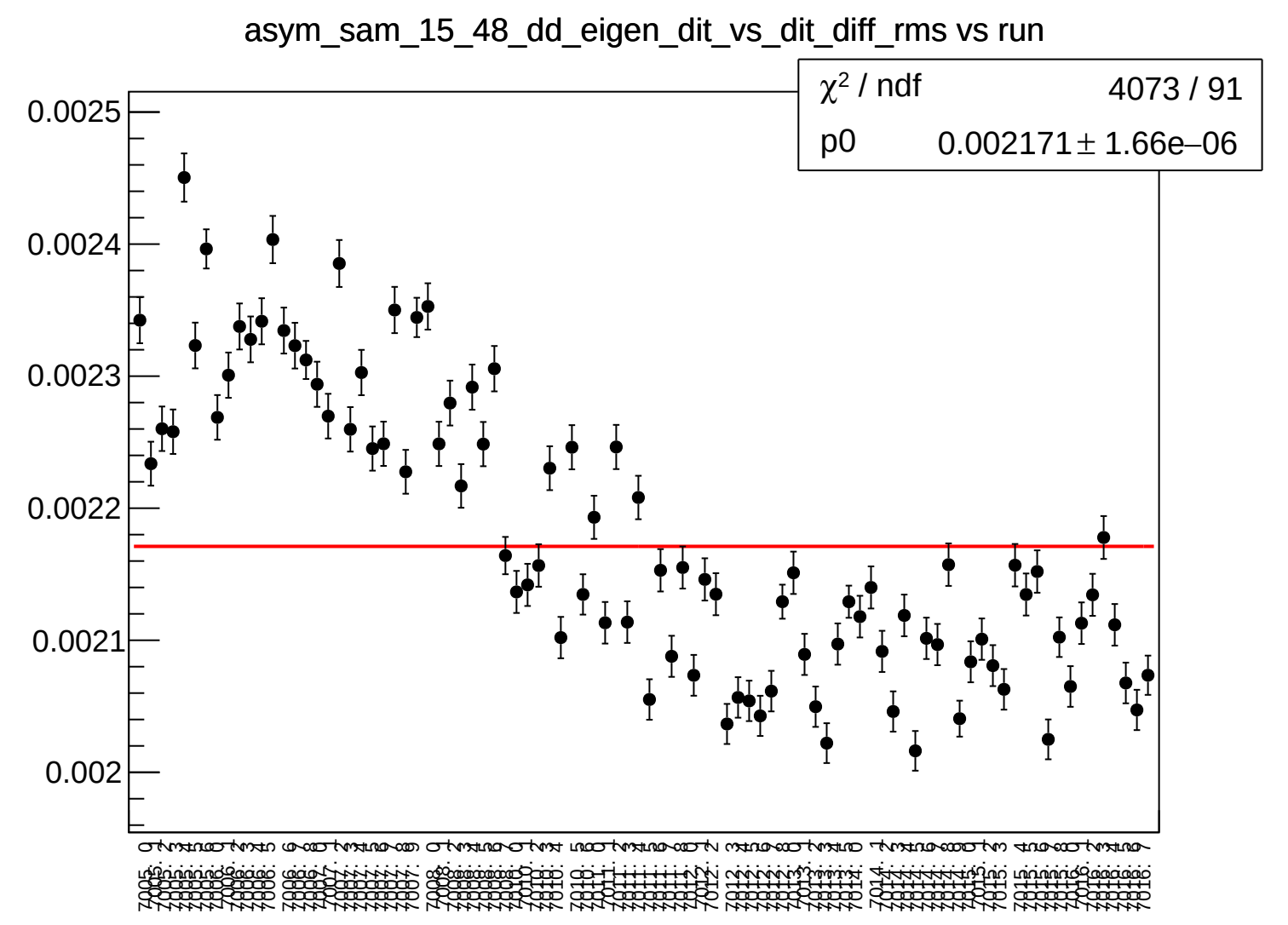

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.094e+04 / 91
p0 22.15 ± 0.01702
32
30
28
26
24
22
20
18

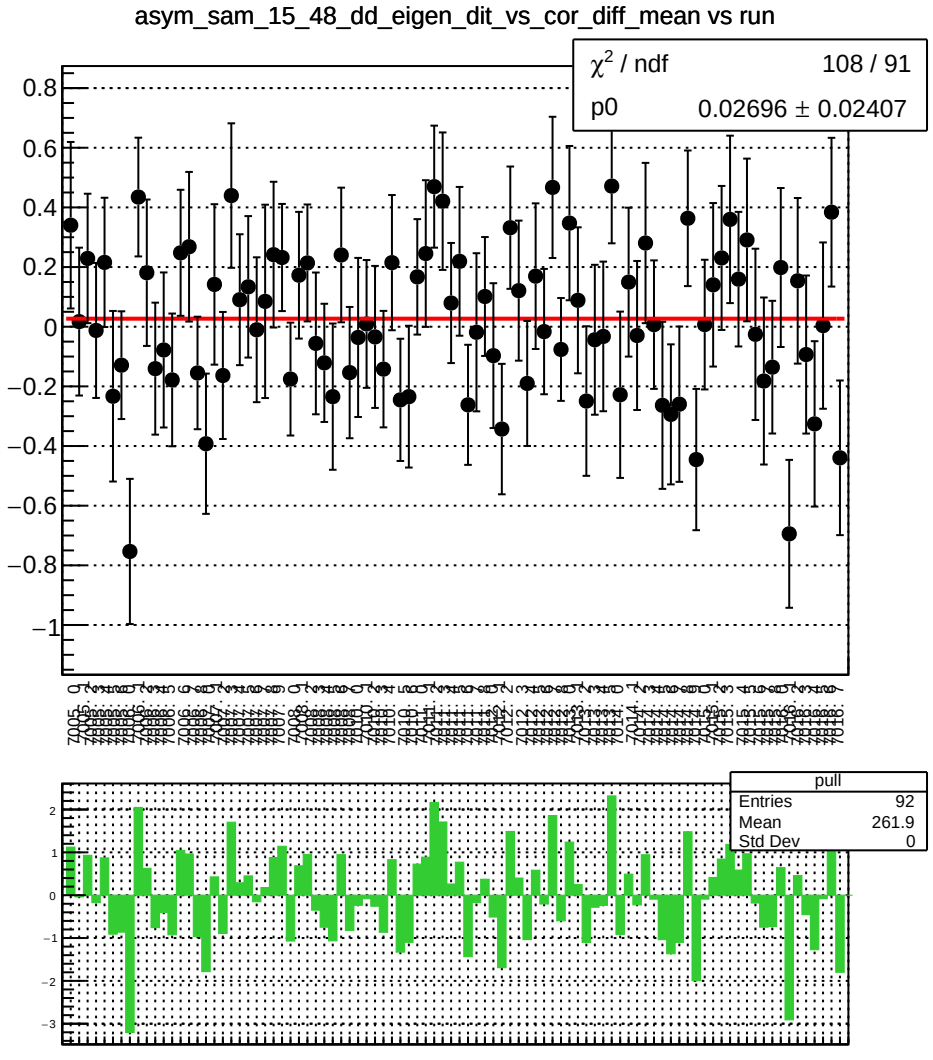

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108 / 91
p0 0.02696 ± 0.02407
pull
Entries 92
Mean 261.9
Std Dev 0

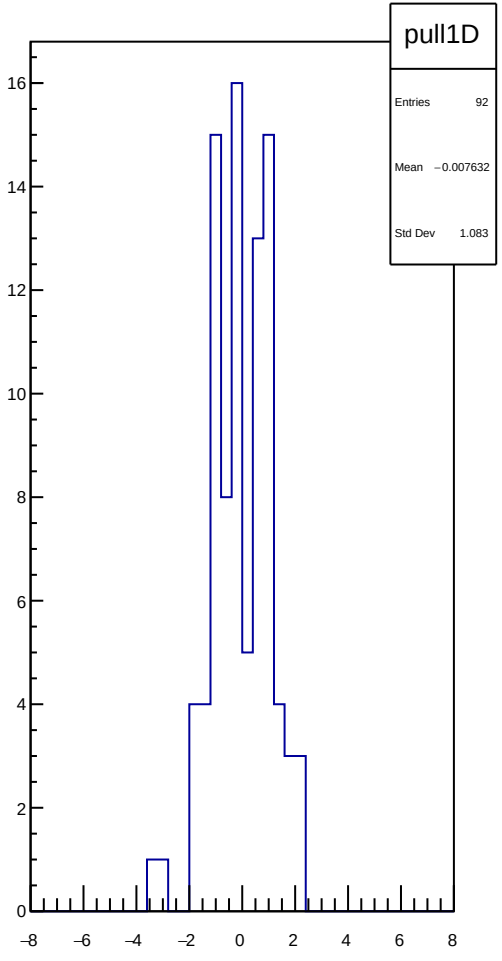

pull1D
Entries 92
Mean −0.007632
Std Dev 1.083

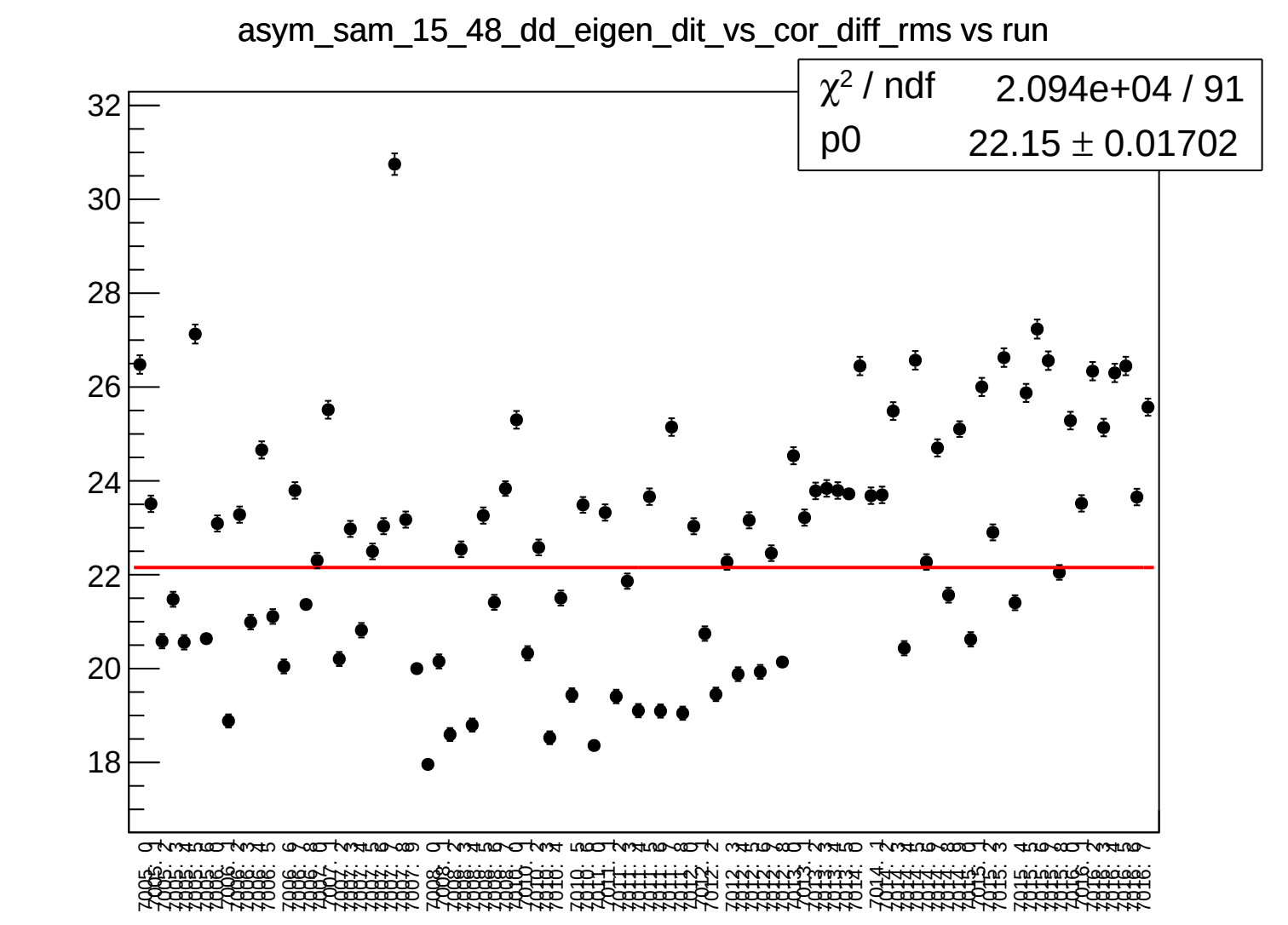

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.094e+04 / 91
p0 22.15 ± 0.01702
32
30
28
26
24
22
20
18

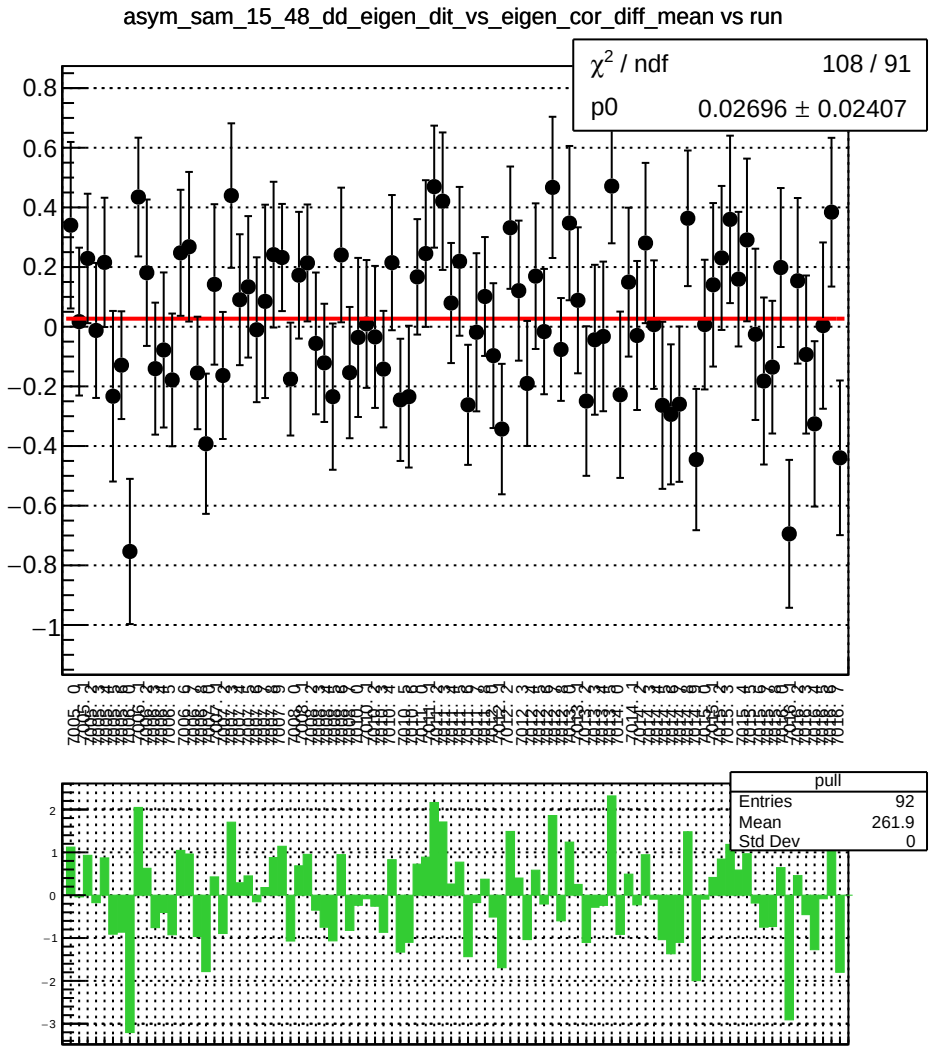

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.18 / 91
p0 −6.455e−06 ± 2.347e−06
pull
Entries 92
Mean −21.83
Std Dev 45.93
pull1D
Entries 92
Mean 0.01594
Std Dev 0.9392

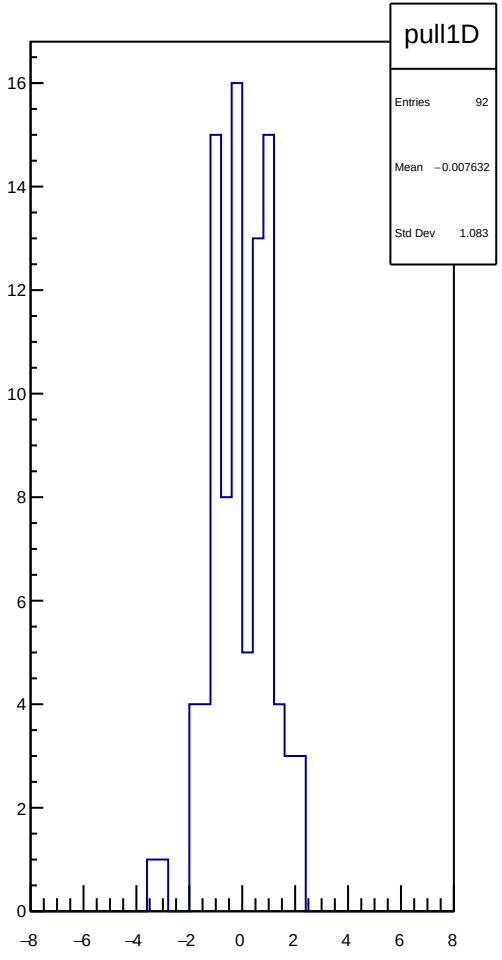

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4073 / 91
p0 0.002171 ± 1.66e–06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

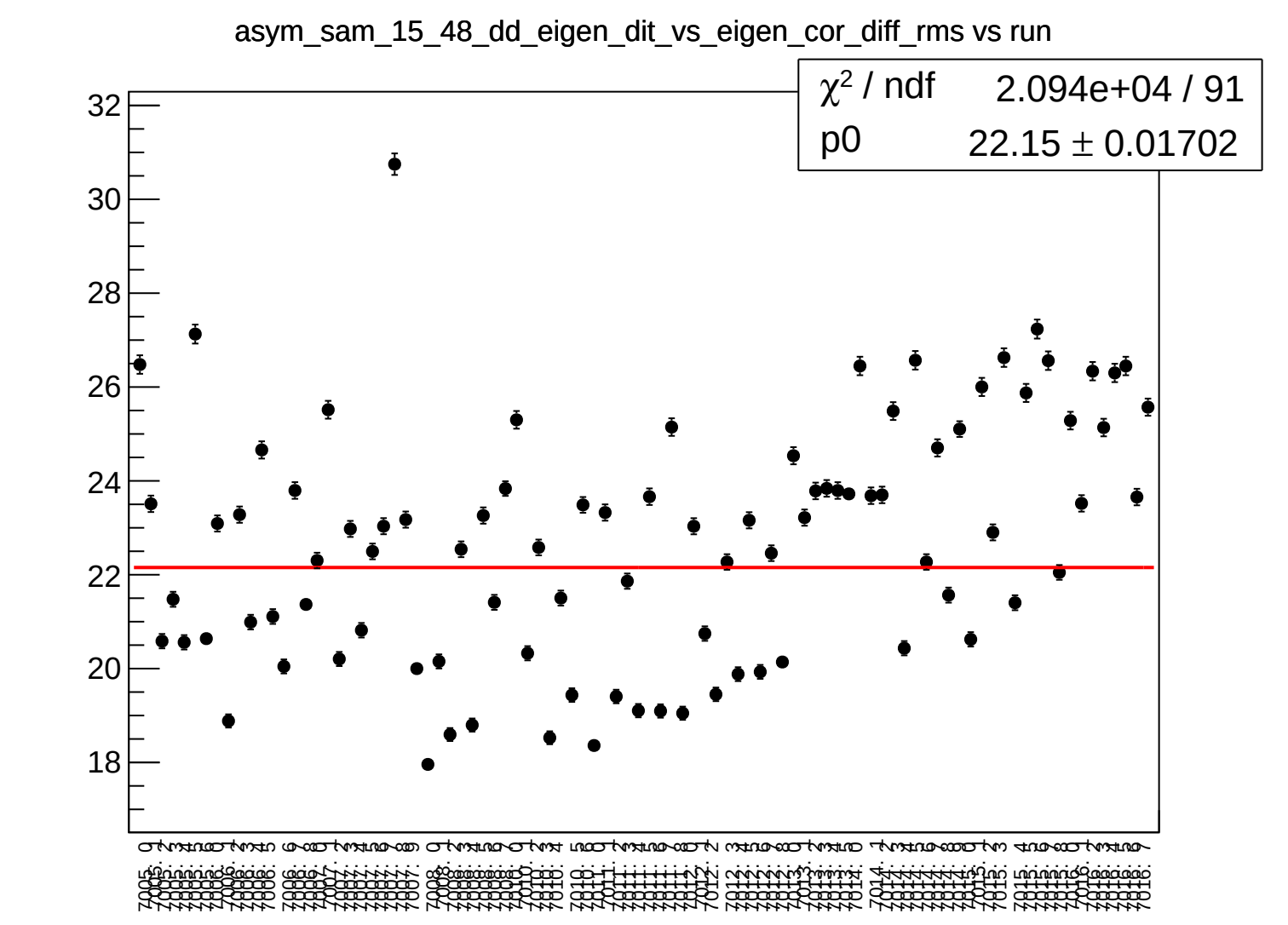

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108 / 91
p0 0.02696 ± 0.02407
pull
Entries 92
Mean 261.9
Std Dev 0

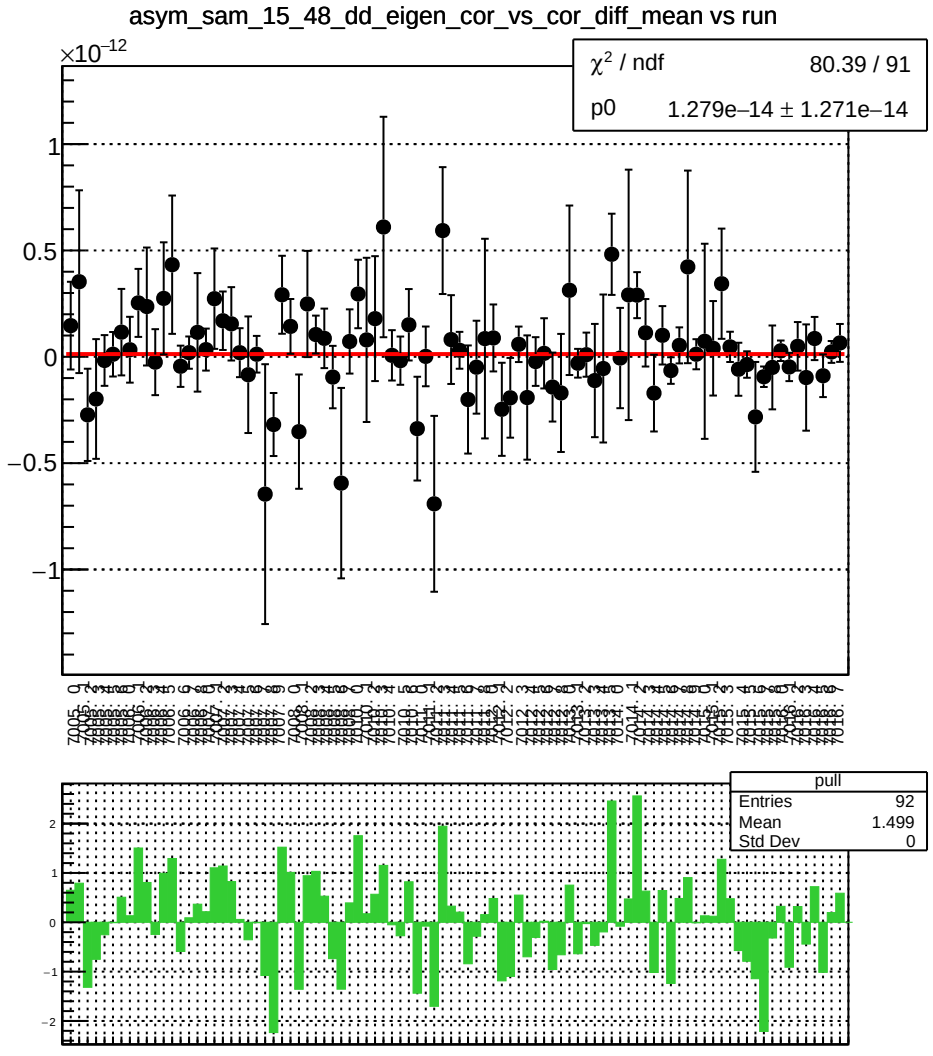

pull1D
Entries 92
Mean −0.007632
Std Dev 1.083

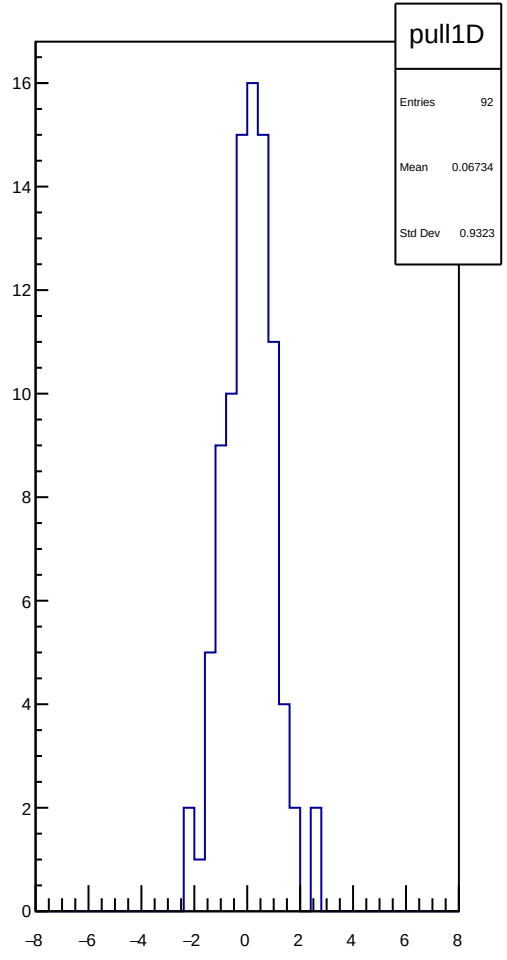

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.094e+04 / 91
p0 22.15 ± 0.01702
32
30
28
26
24
22
20
18

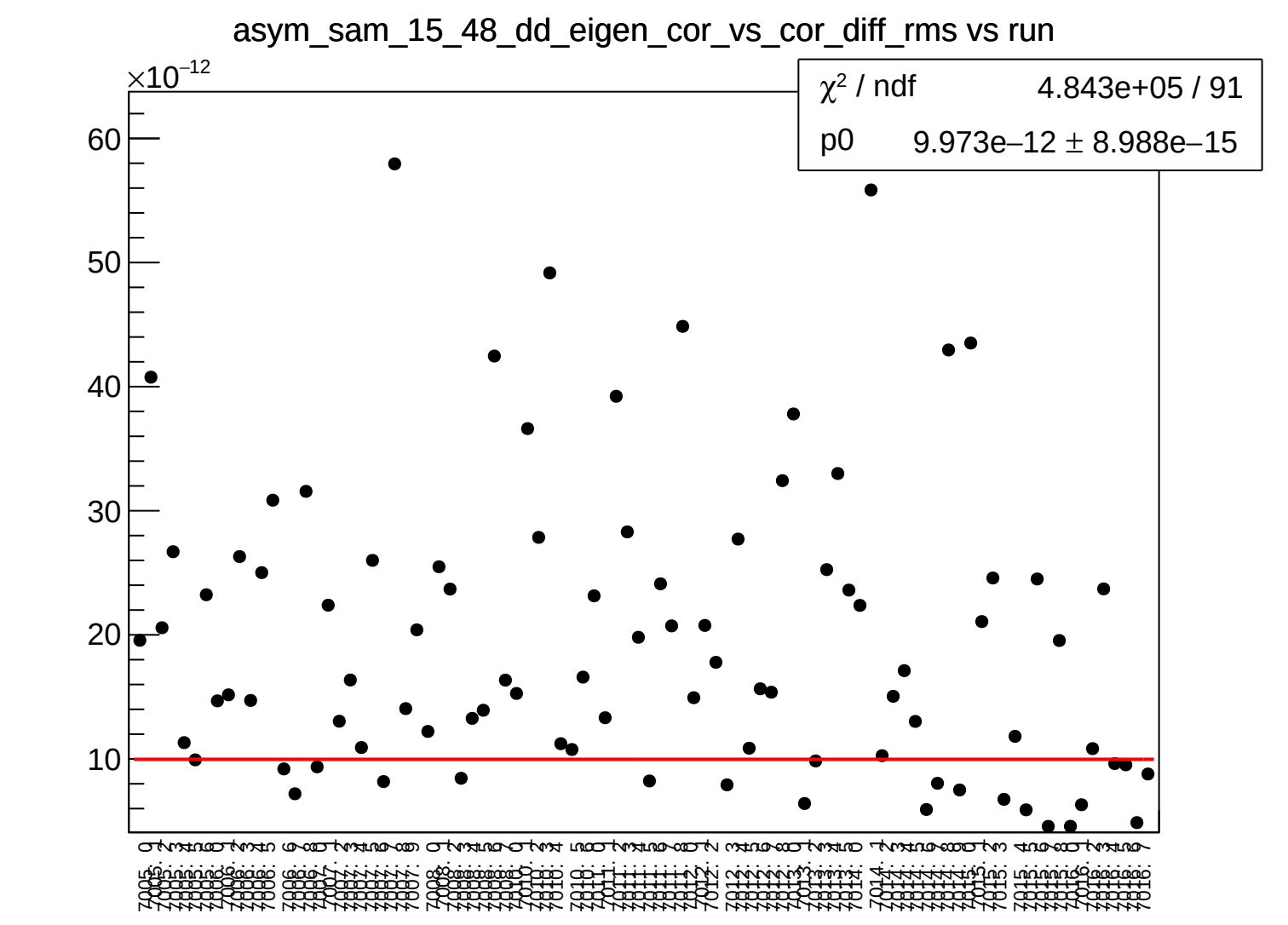

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108 / 91
p0 0.02696 ± 0.02407
pull
Entries 92
Mean 261.9
Std Dev 0

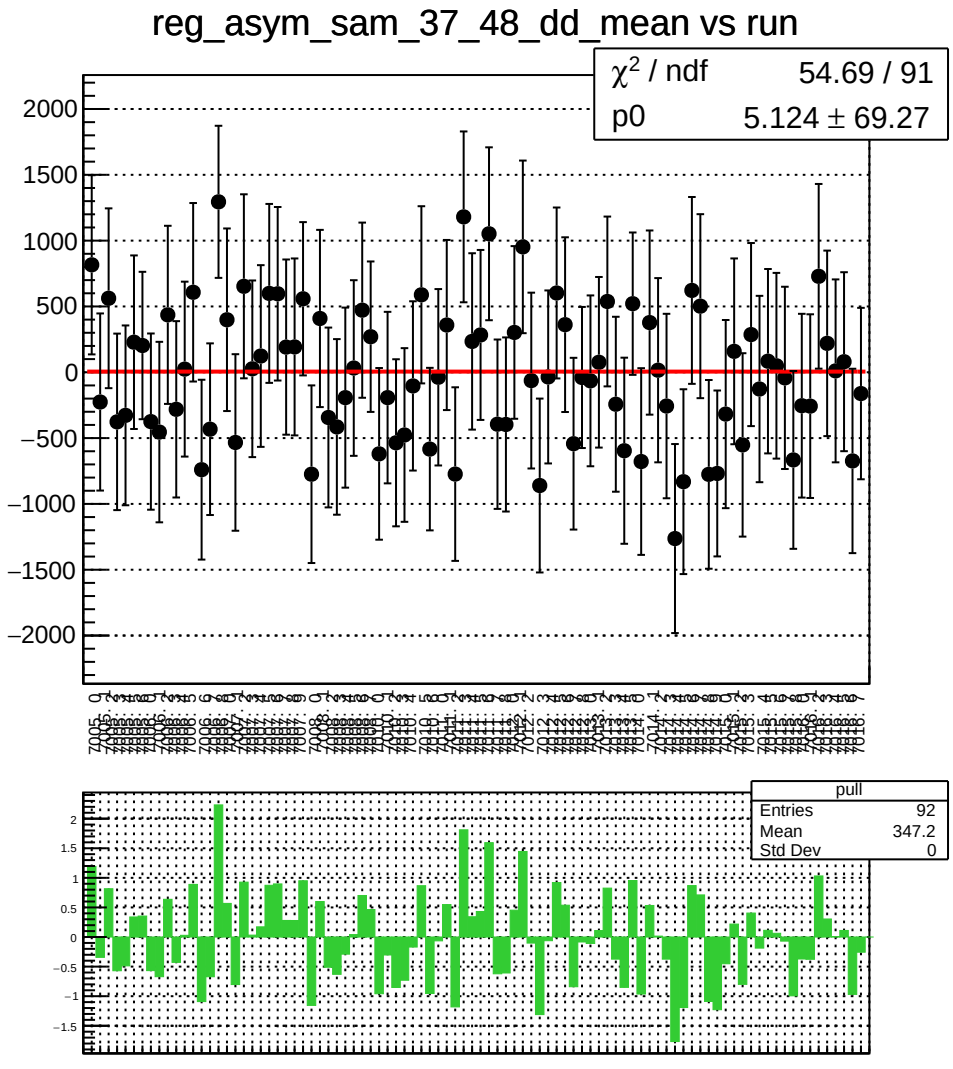

pull1D
Entries 92
Mean −0.007632
Std Dev 1.083

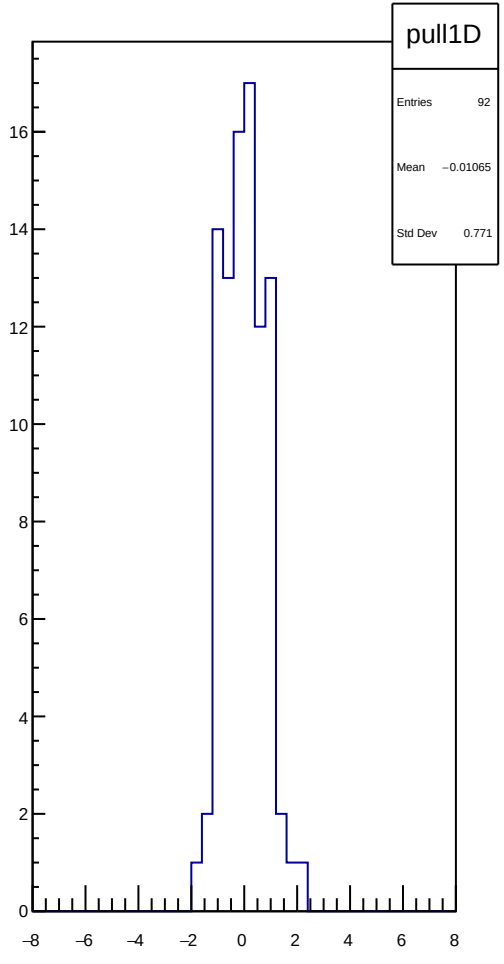

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.094e+04 / 91
p0 22.15 ± 0.01702
32
30
28
26
24
22
20
18

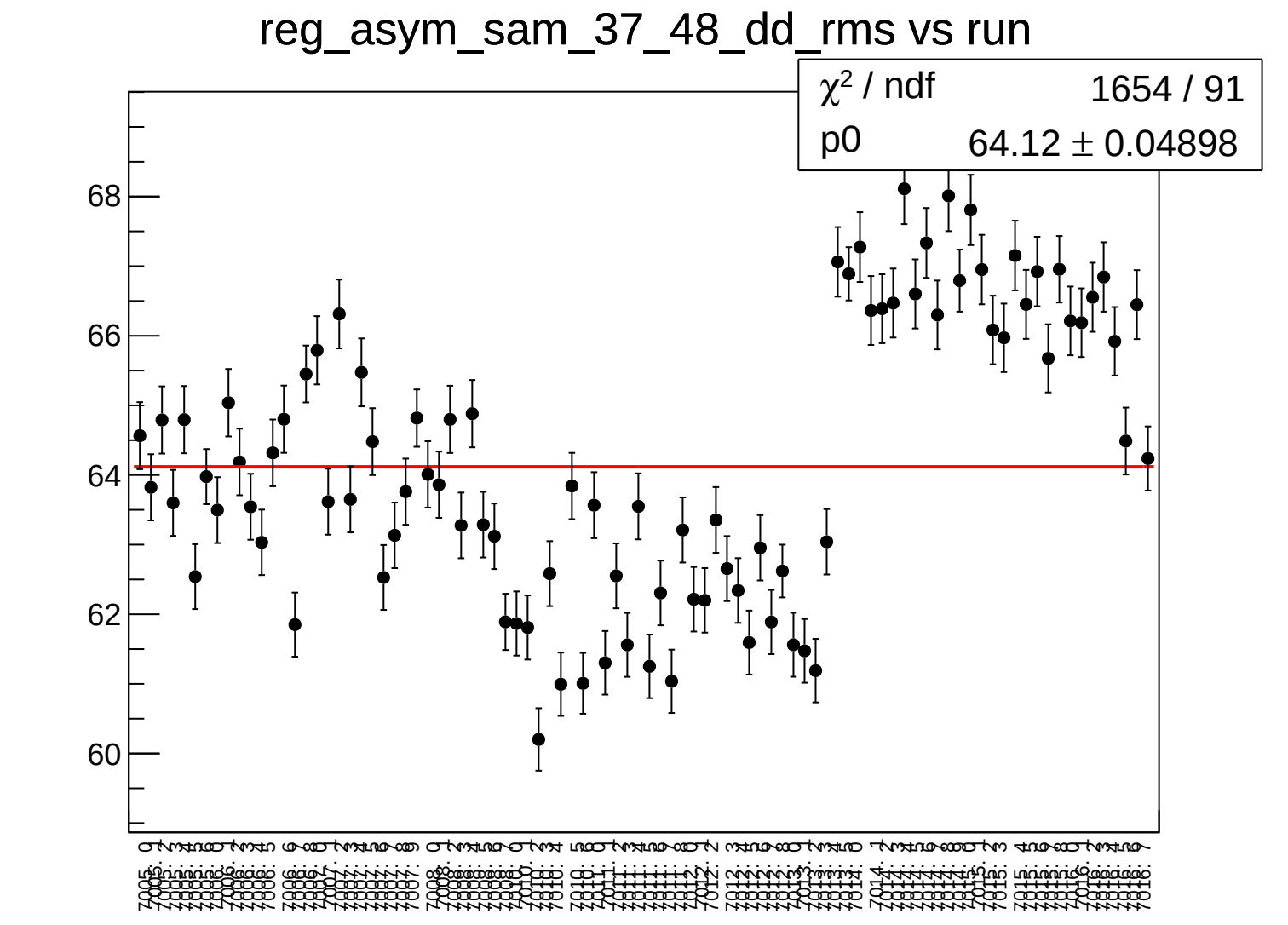

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.39 / 91
p0 1.279e−14 ± 1.271e−14
pull
Entries 92
Mean 1.499
Std Dev 0

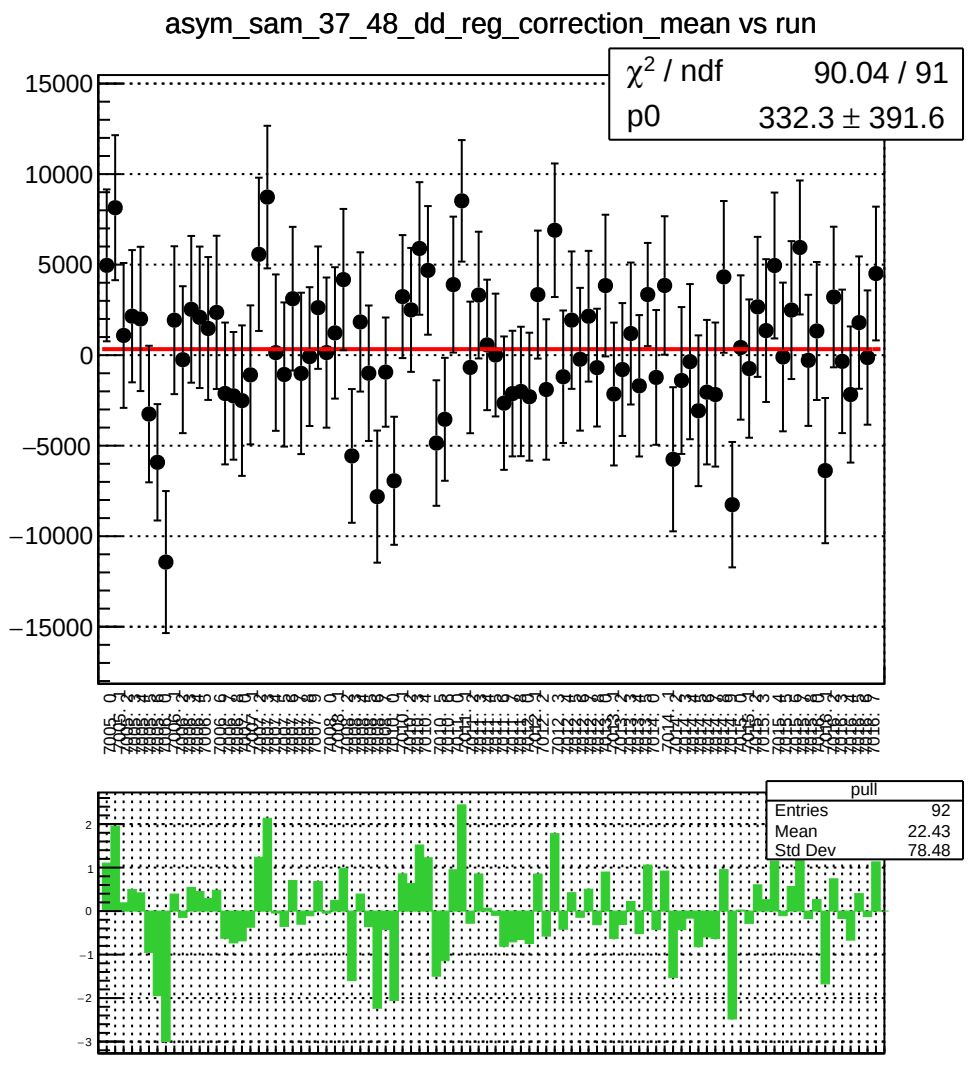

pull1D
Entries 92
Mean 0.06734
Std Dev 0.9323

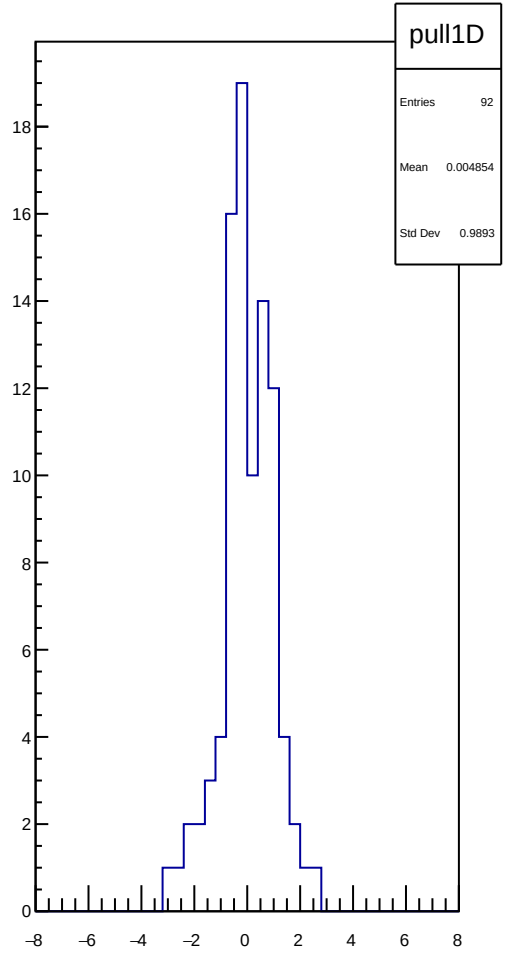

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.843e+05 / 91
p0 9.973e−12 ± 8.988e−15
60
50
40
30
20
10

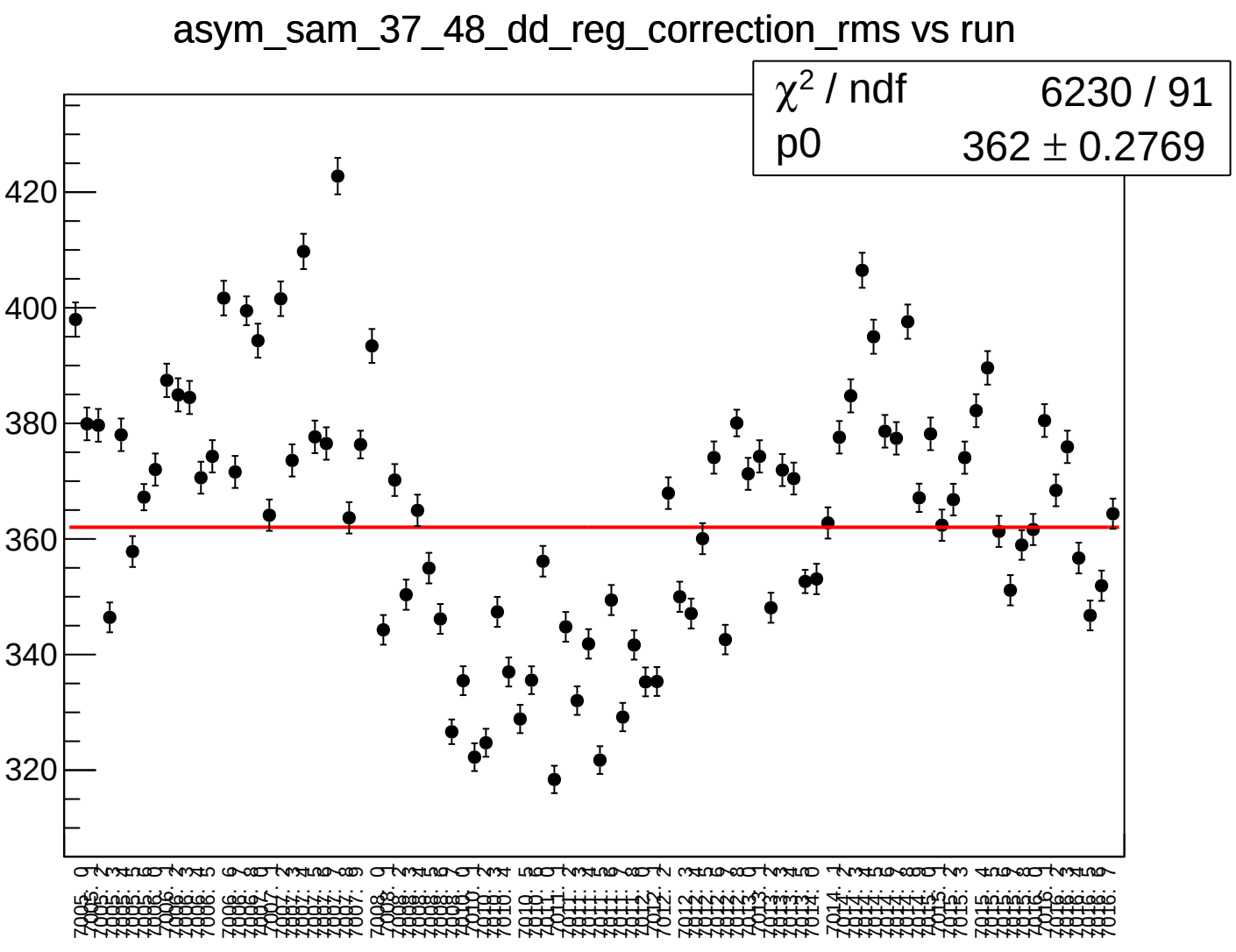

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 54.69 / 91
p0 5.124 ± 69.27
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 92
Mean 347.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

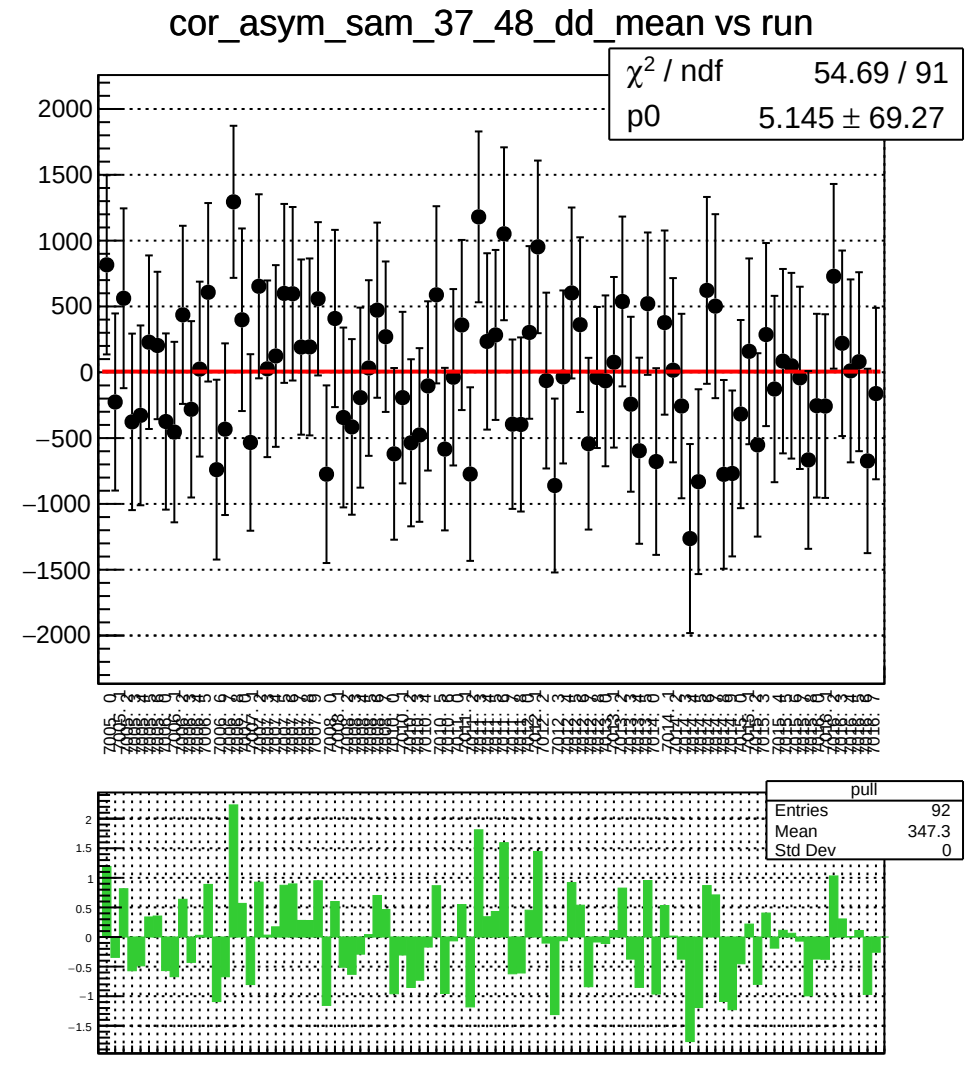

pull1D
Entries 92
Mean −0.01065
Std Dev 0.771
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

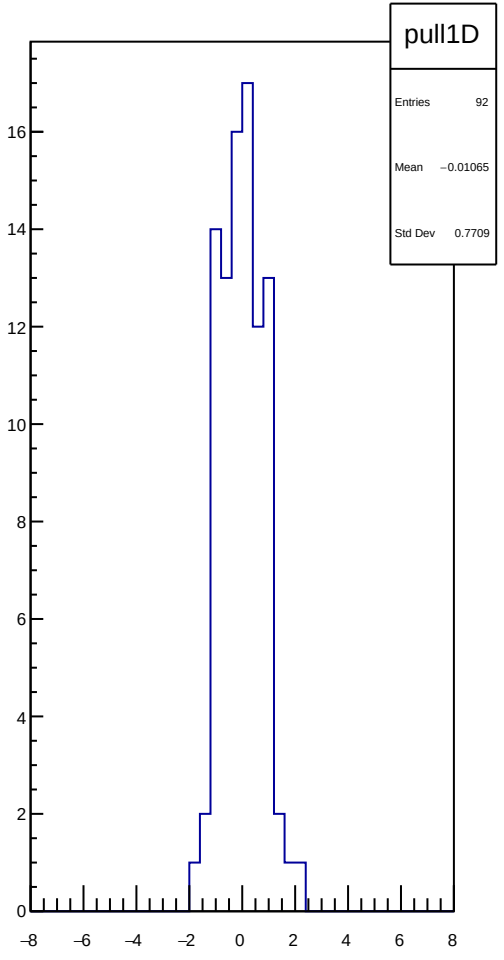

reg_asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 1654 / 91
p0 64.12 ± 0.04898
68
66
64
62
60

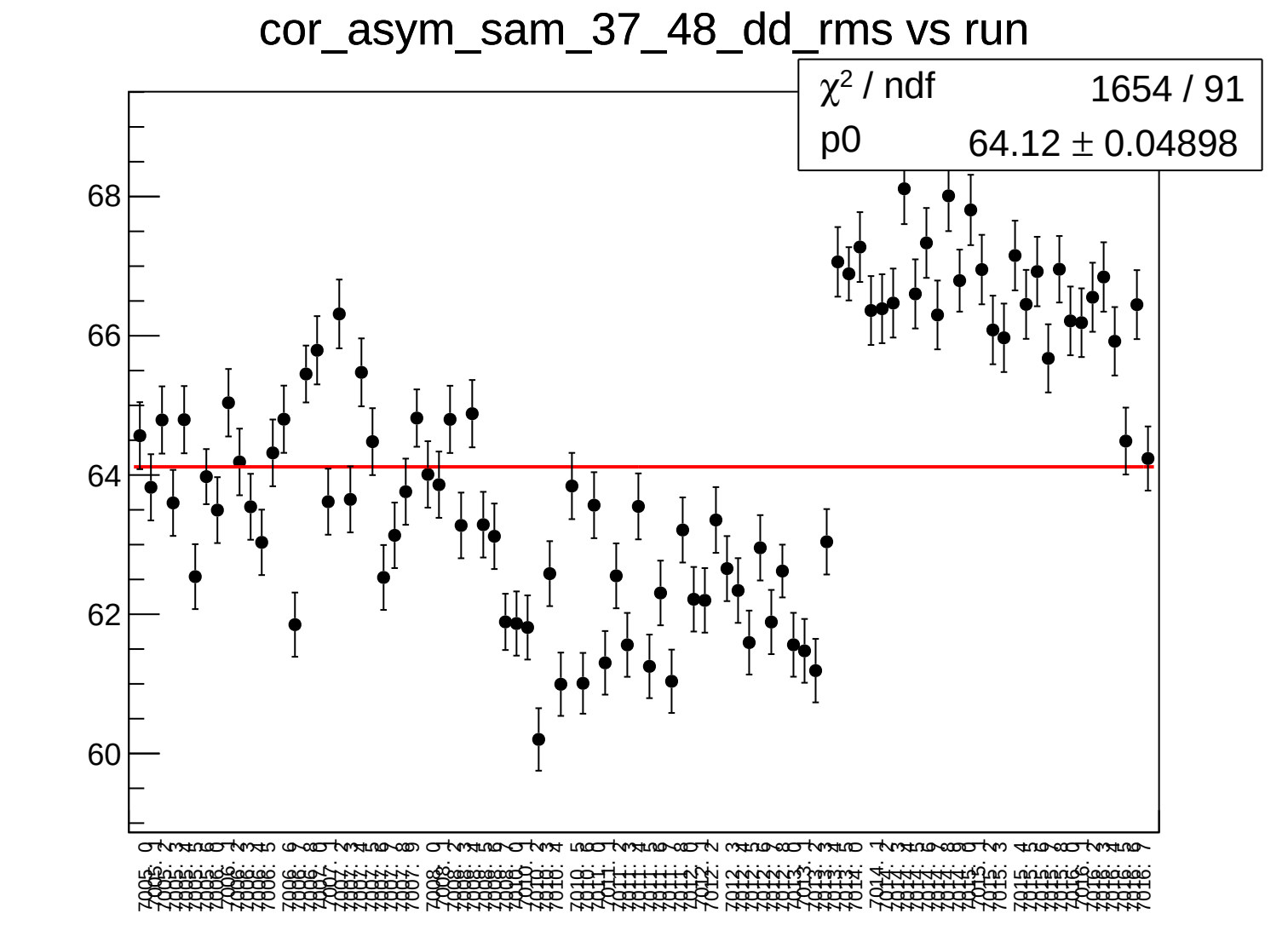

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 90.04 / 91
p0 332.3 ± 391.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 22.43
Std Dev 78.48
2
1
0
−1
−2
−3

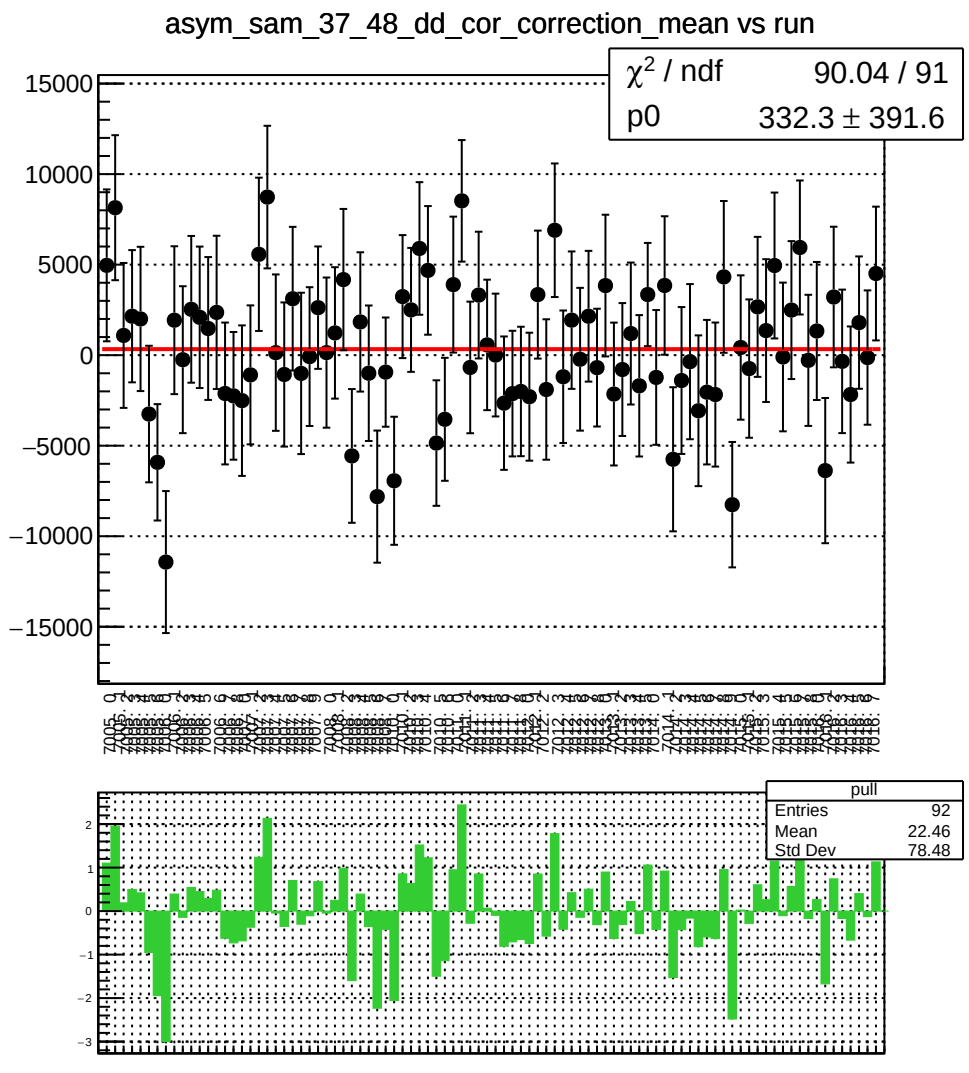

pull1D
Entries 92
Mean 0.004854
Std Dev 0.9893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

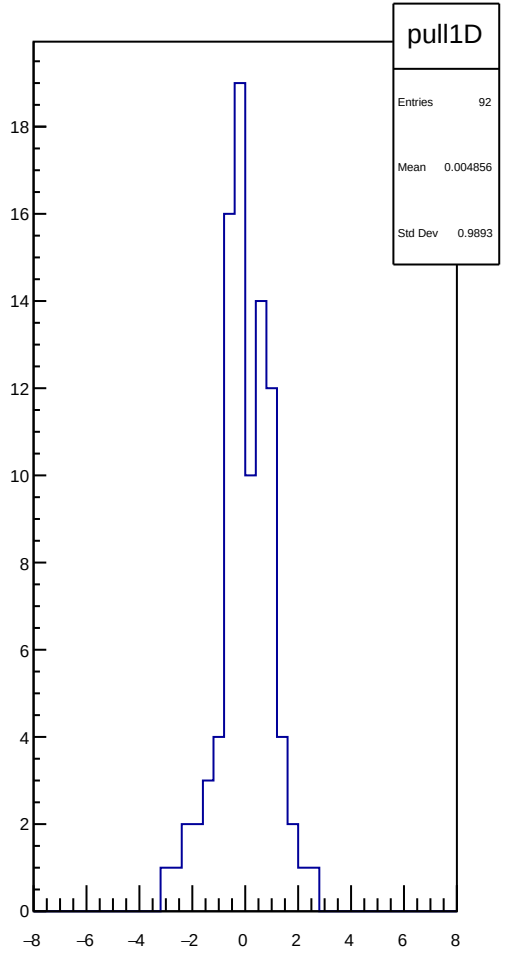

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 6230 / 91
p0 362 ± 0.2769
420
400
380
360
340
320

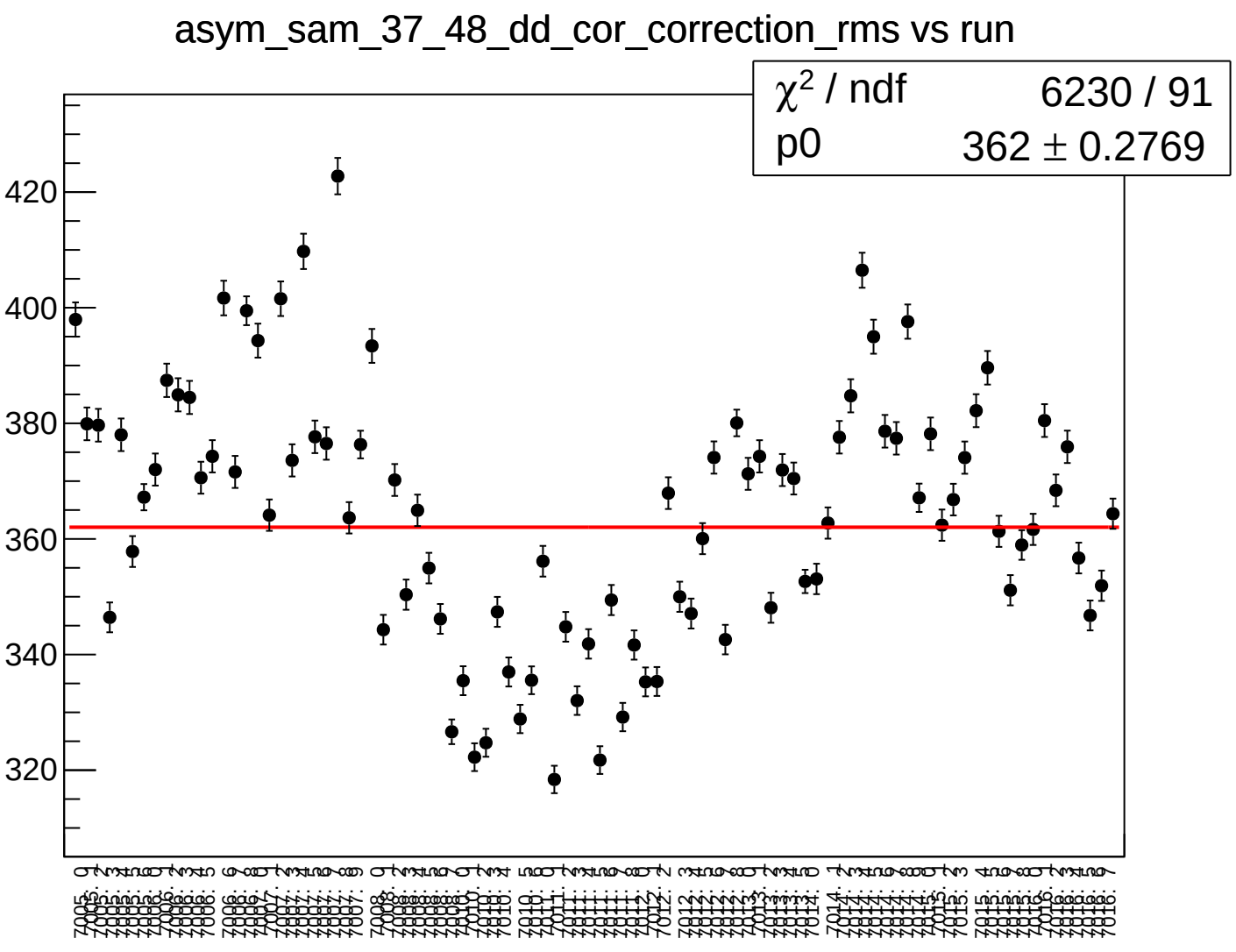

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 54.69 / 91
p0 5.145 ± 69.27
pull
Entries 92
Mean 347.3
Std Dev 0

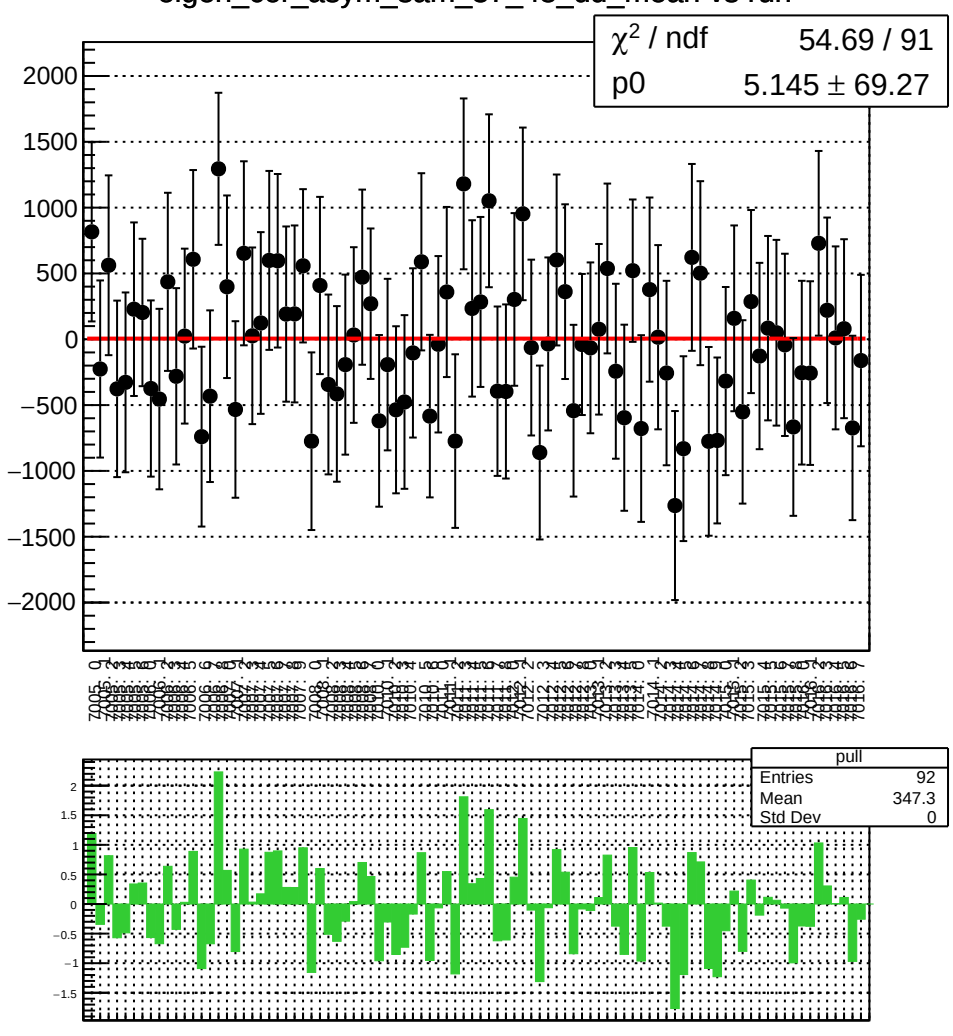

pull1D
Entries 92
Mean −0.01065
Std Dev 0.7709

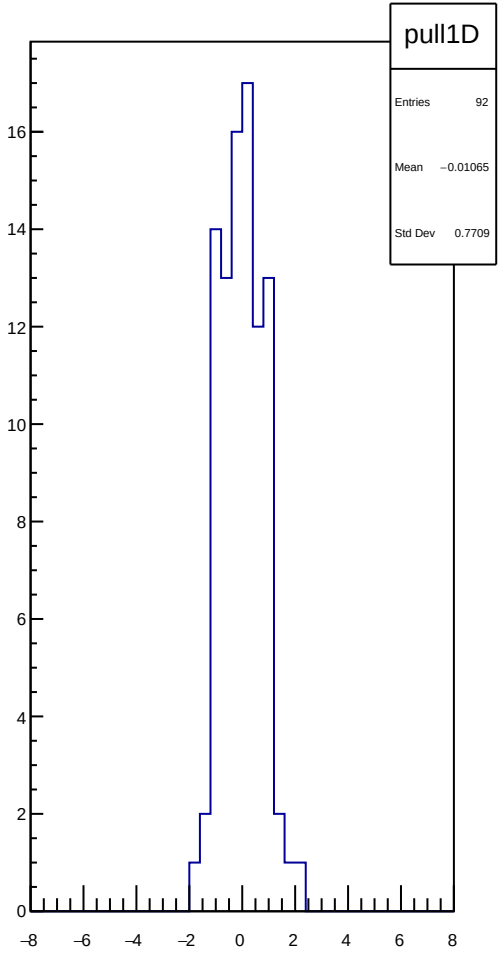

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1654 / 91
p0 64.12 ± 0.04898
68
66
64
62
60

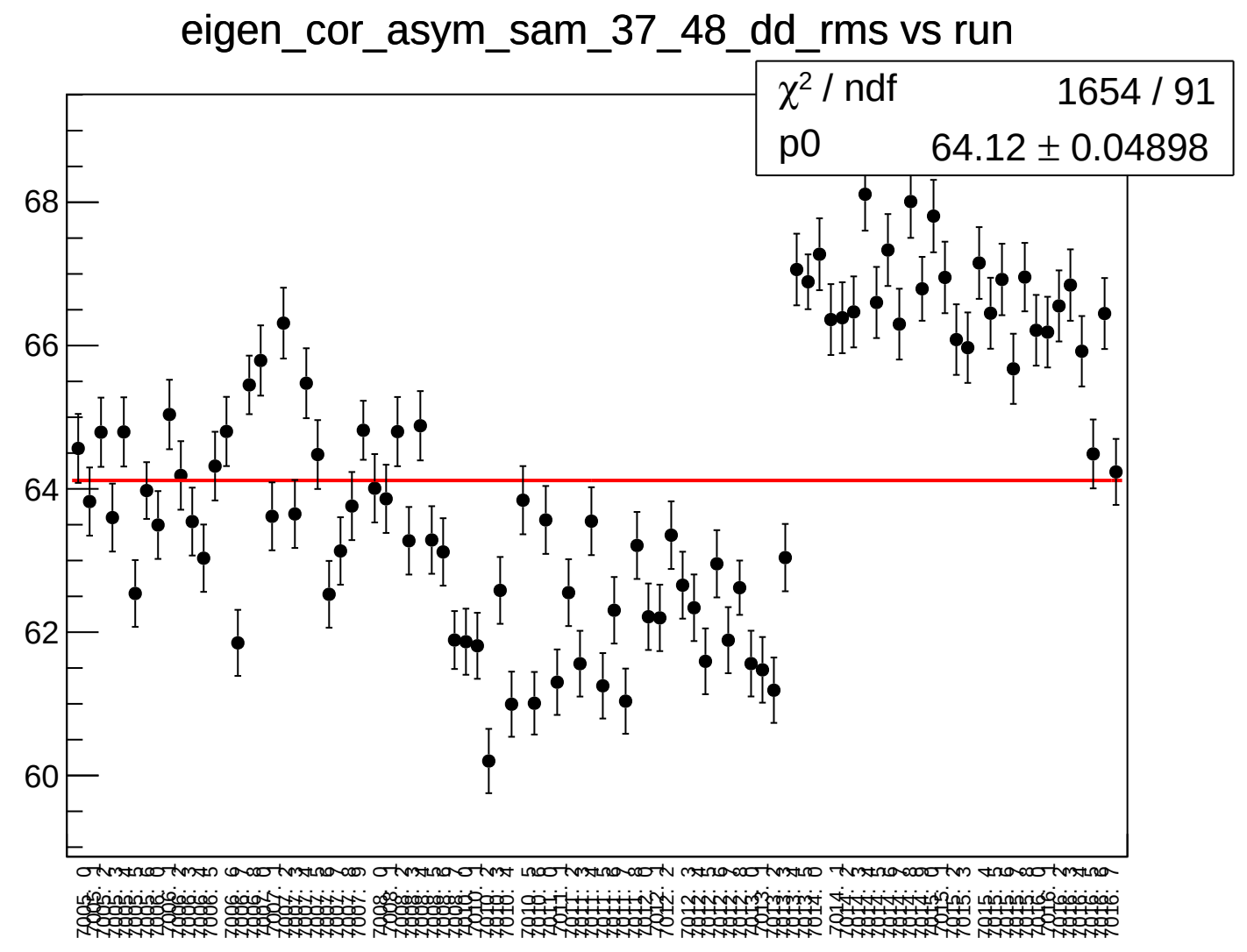

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 90.04 / 91
p0 332.3 ± 391.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 22.46
Std Dev 78.48
2
1
0
−1
−2
−3

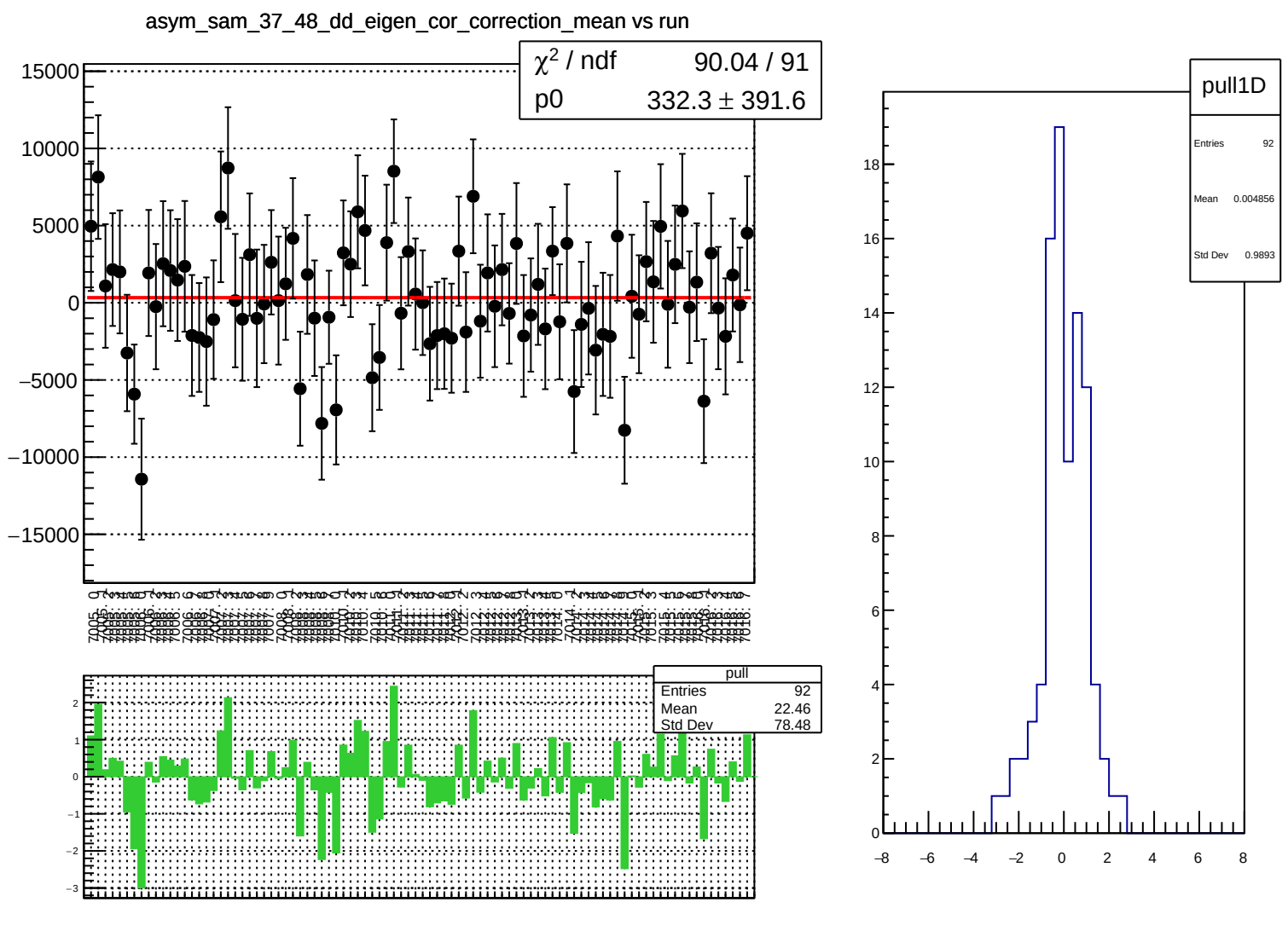

pull1D
Entries 92
Mean 0.004856
Std Dev 0.9893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

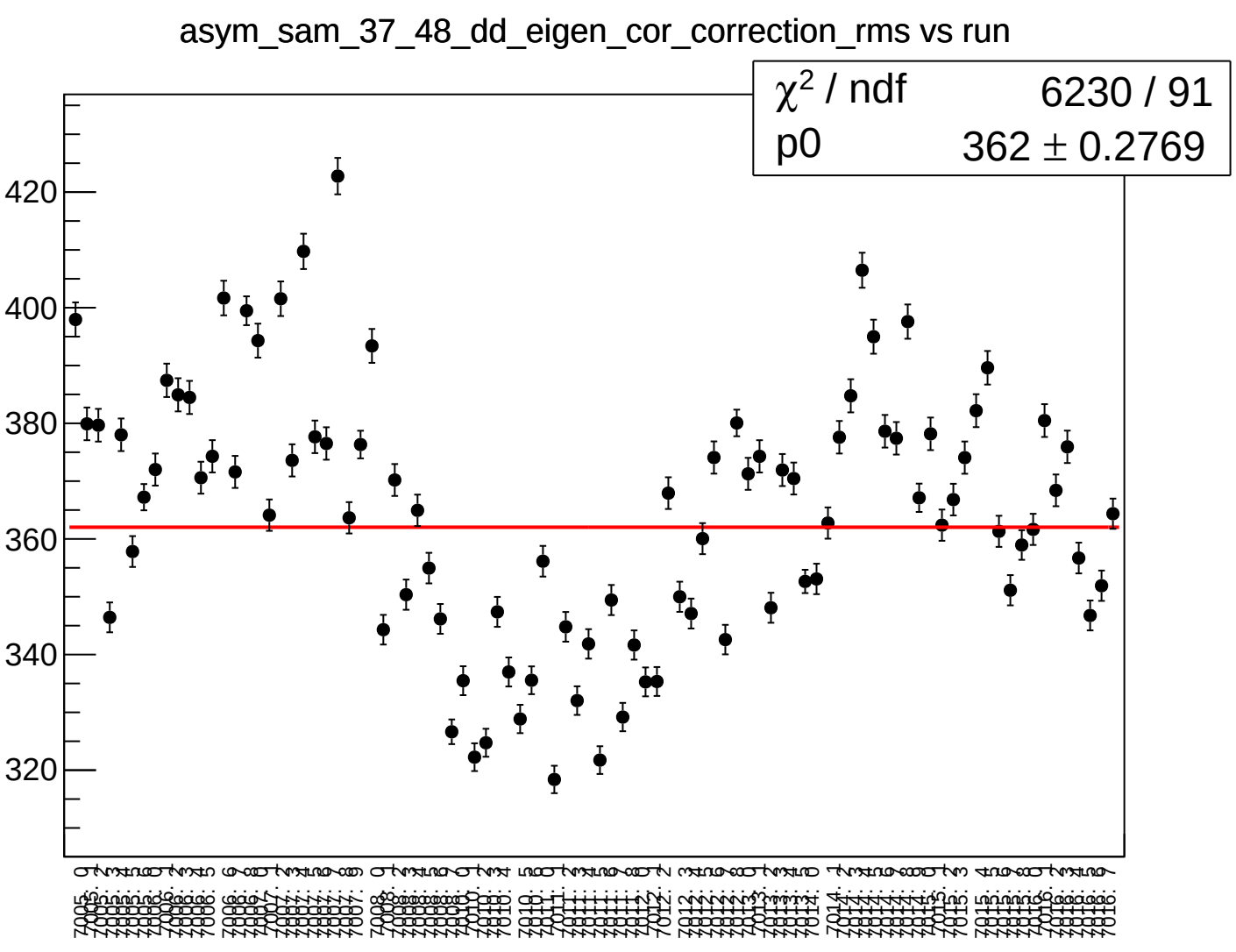

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 6230 / 91
p0 362 ± 0.2769
420
400
380
360
340
320

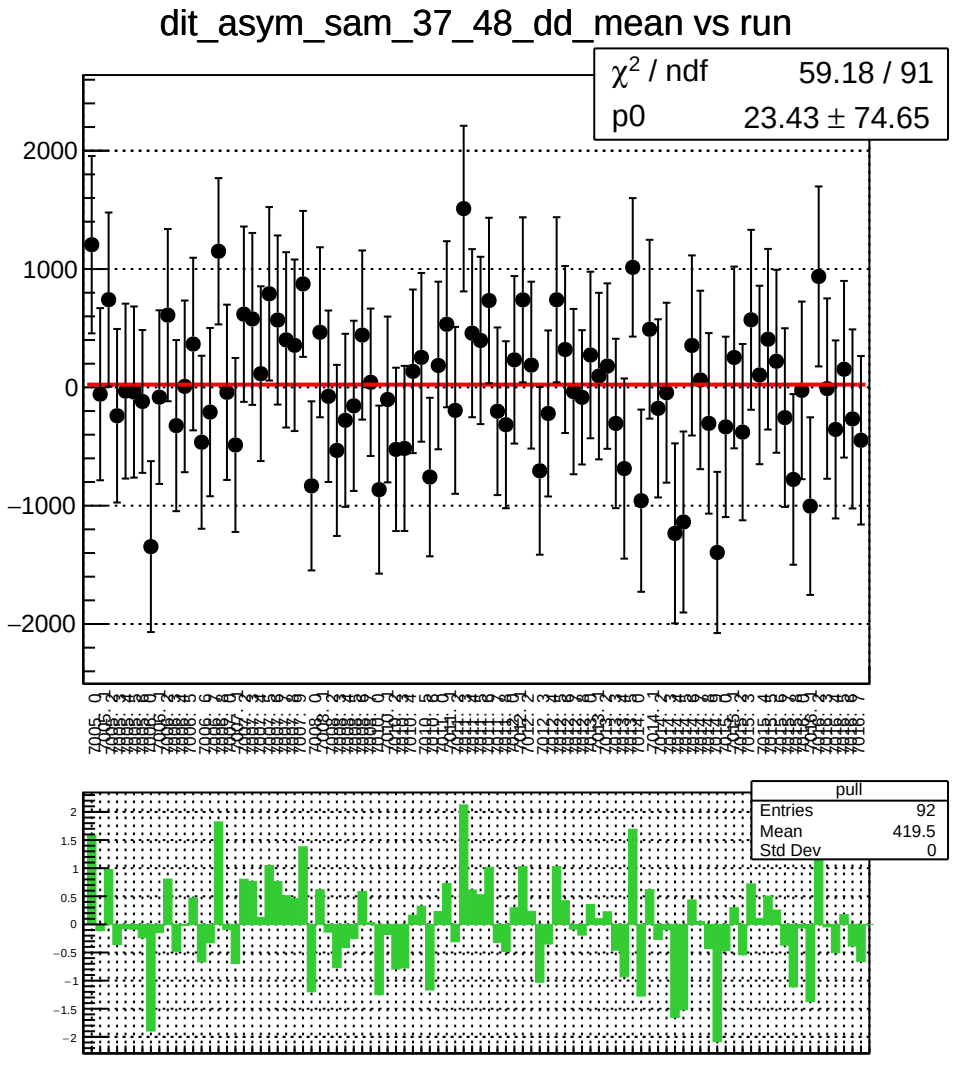

eigen_cor_asym_sam_37_48_dd_mean vs run
$\chi^2$ / ndf 54.69 / 91
p0 5.145 ± 69.27
pull
Entries 92
Mean 347.3
Std Dev 0

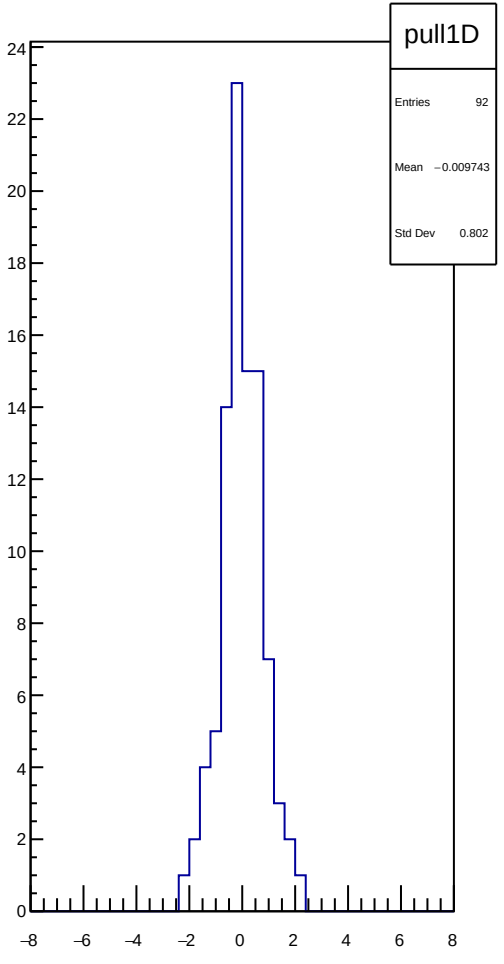

pull1D
Entries 92
Mean −0.01065
Std Dev 0.7709

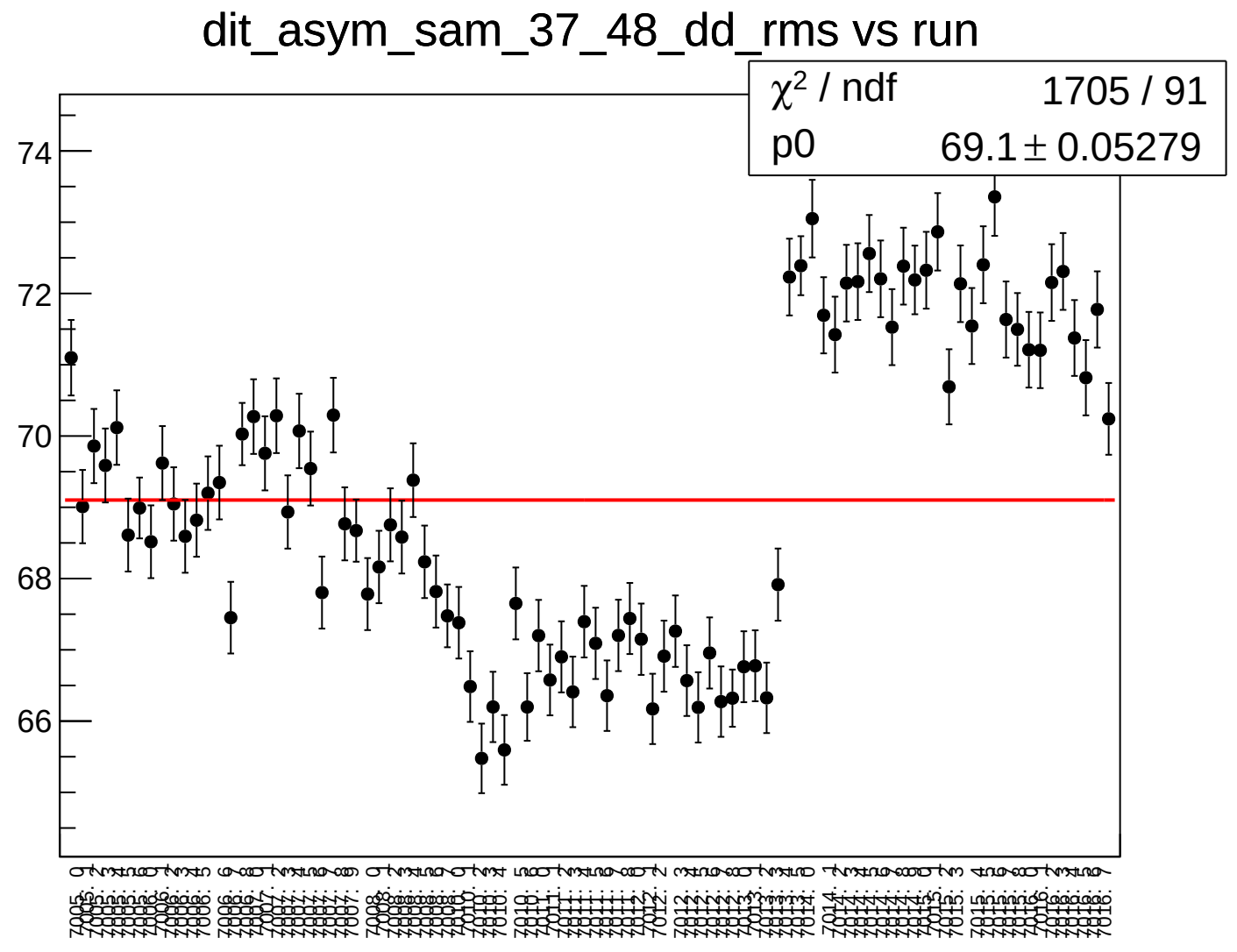

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1654 / 91
p0 64.12 ± 0.04898
68
66
64
62
60

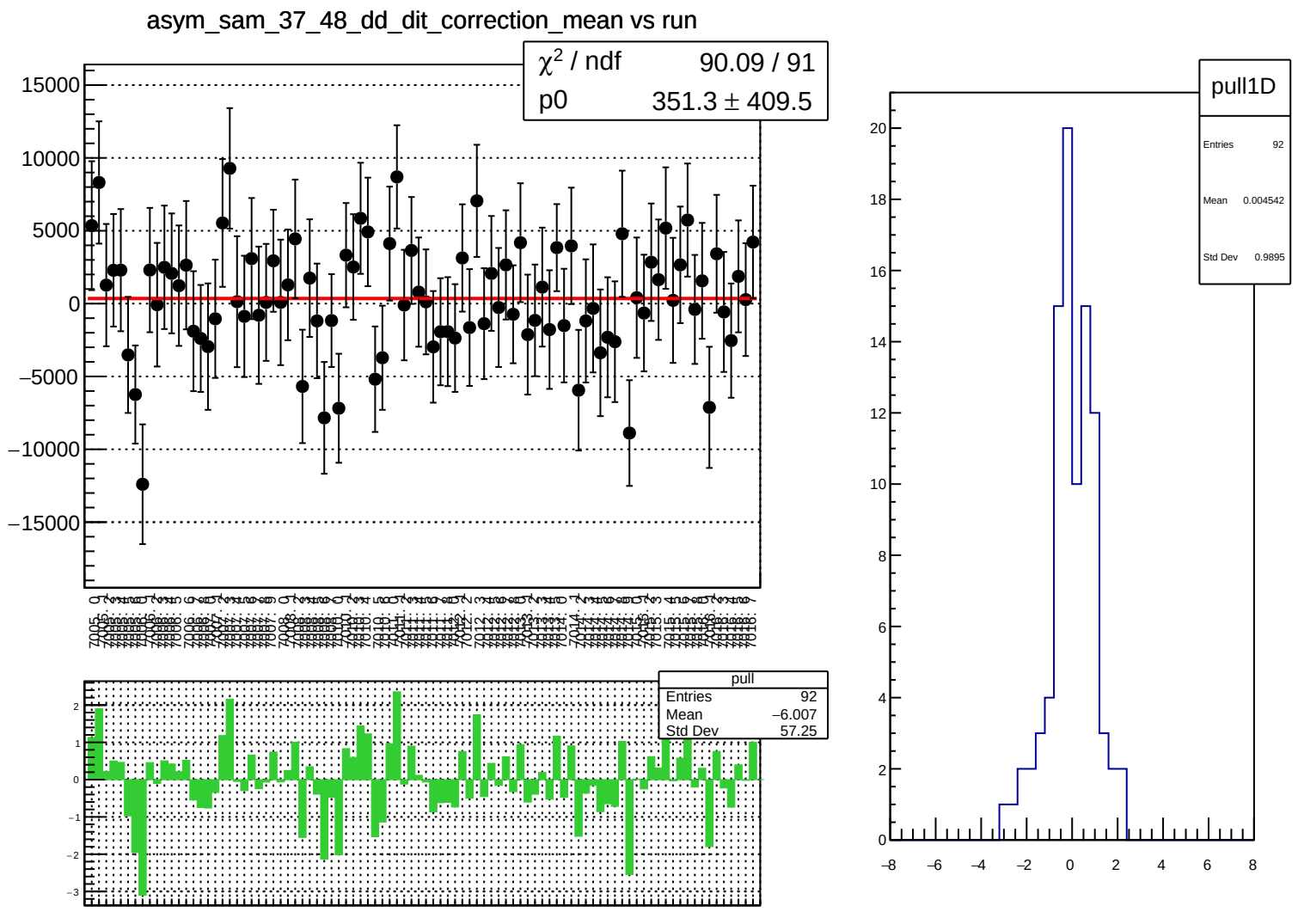

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.04 / 91
p0 332.3 ± 391.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 22.46
Std Dev 78.48
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.004856
Std Dev 0.9893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

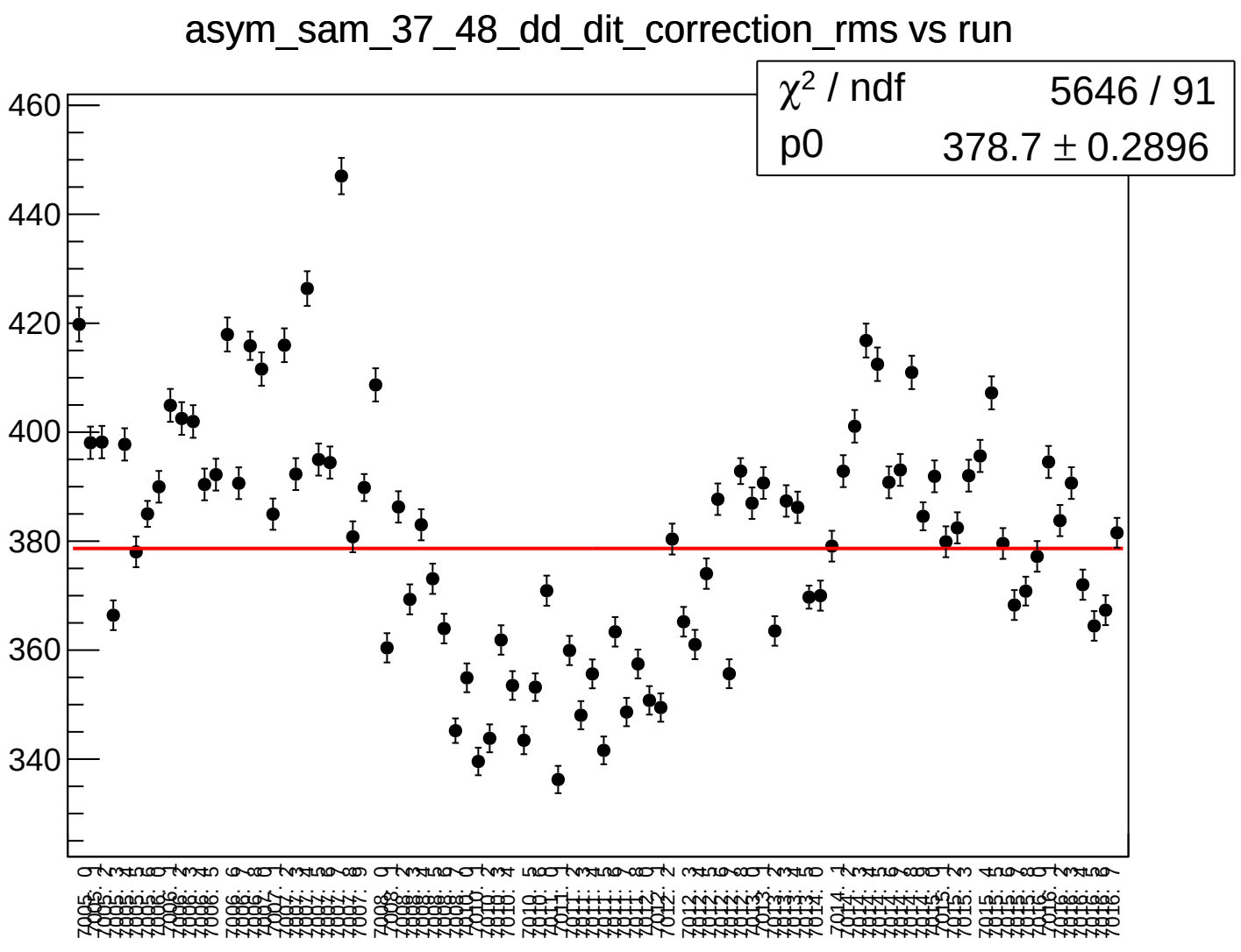

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 6230 / 91
p0 362 ± 0.2769
420
400
380
360
340
320

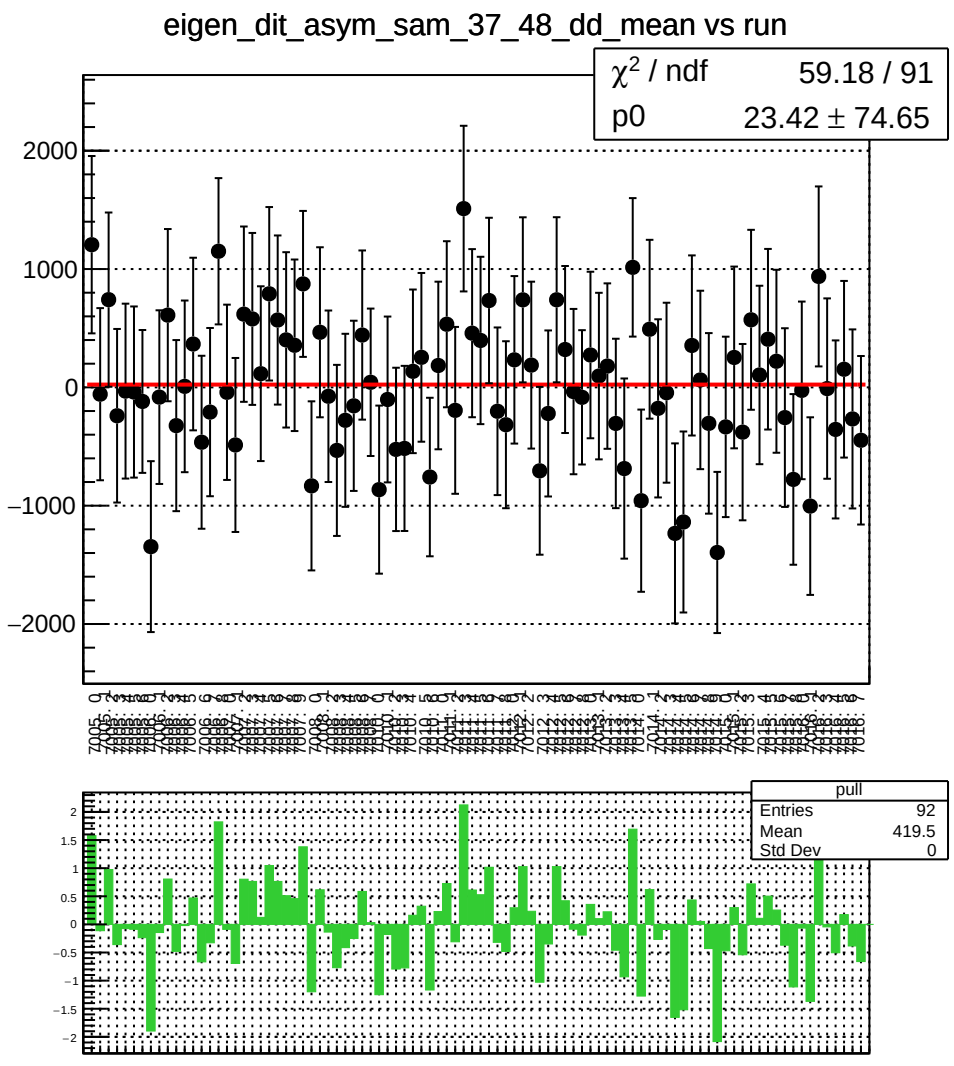

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 59.18 / 91
p0 23.43 ± 74.65
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 419.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

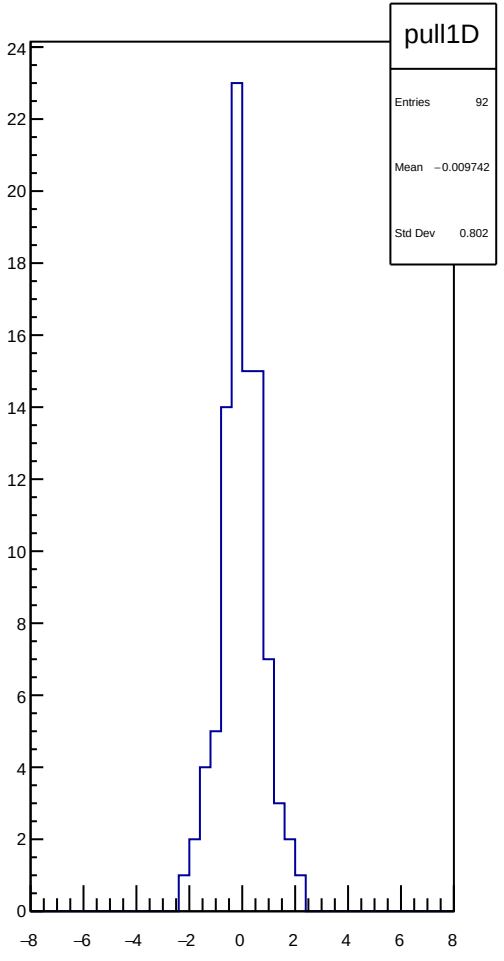

pull1D
Entries 92
Mean −0.009743
Std Dev 0.802
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

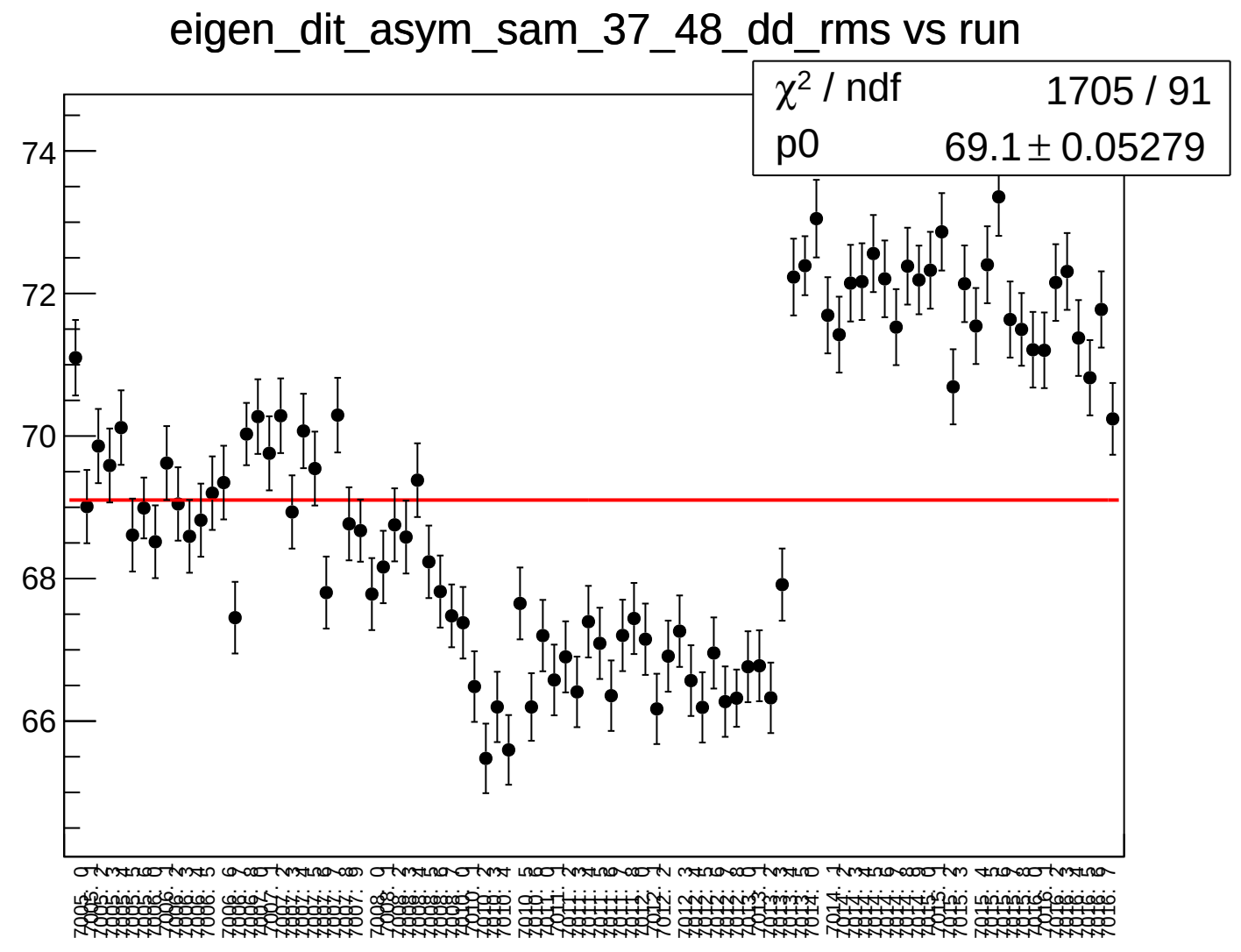

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1705 / 91
p0 69.1 ± 0.05279
74
72
70
68
66

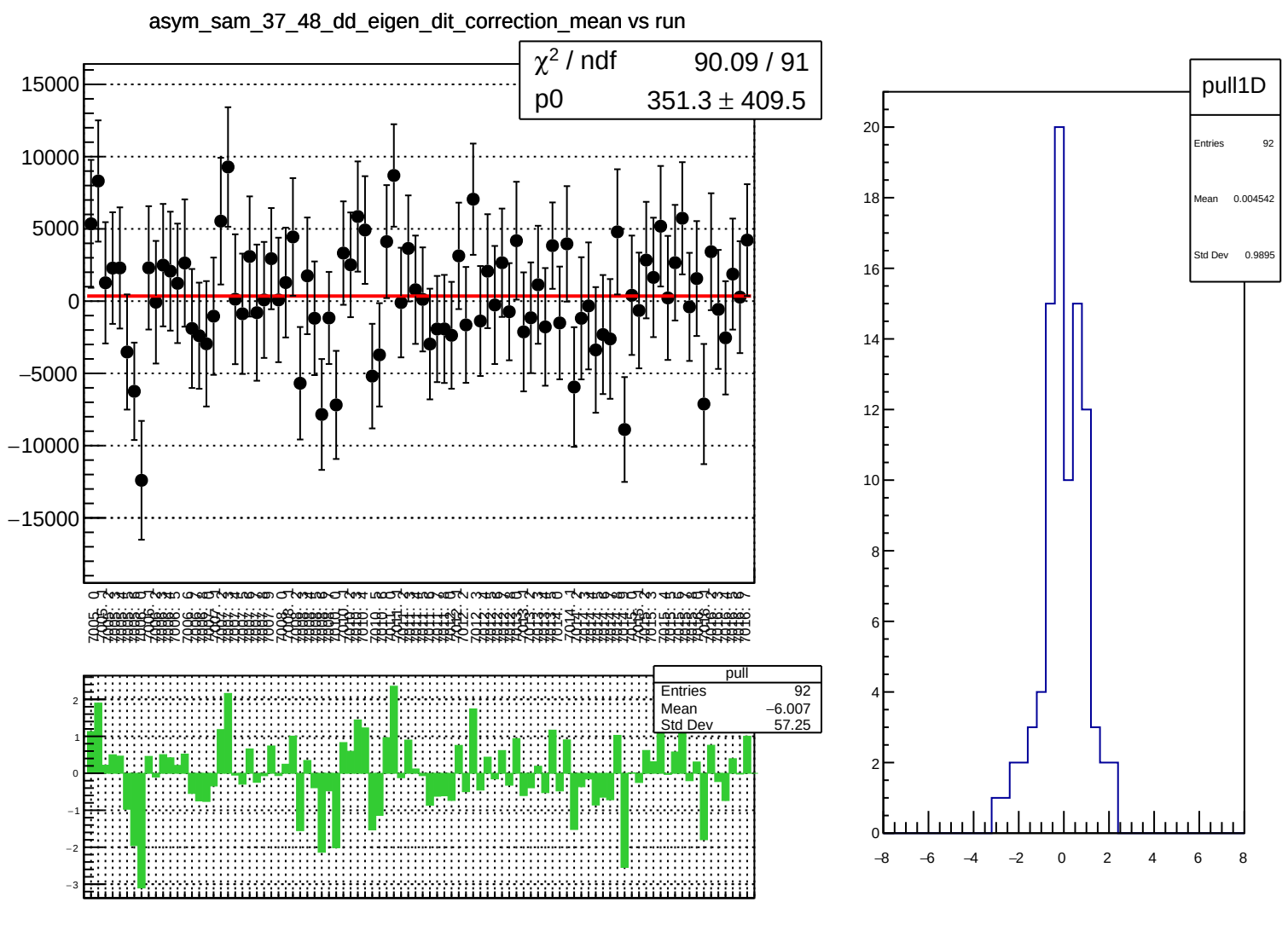

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 90.09 / 91
p0 351.3 ± 409.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −6.007
Std Dev 57.25
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.004542
Std Dev 0.9895
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

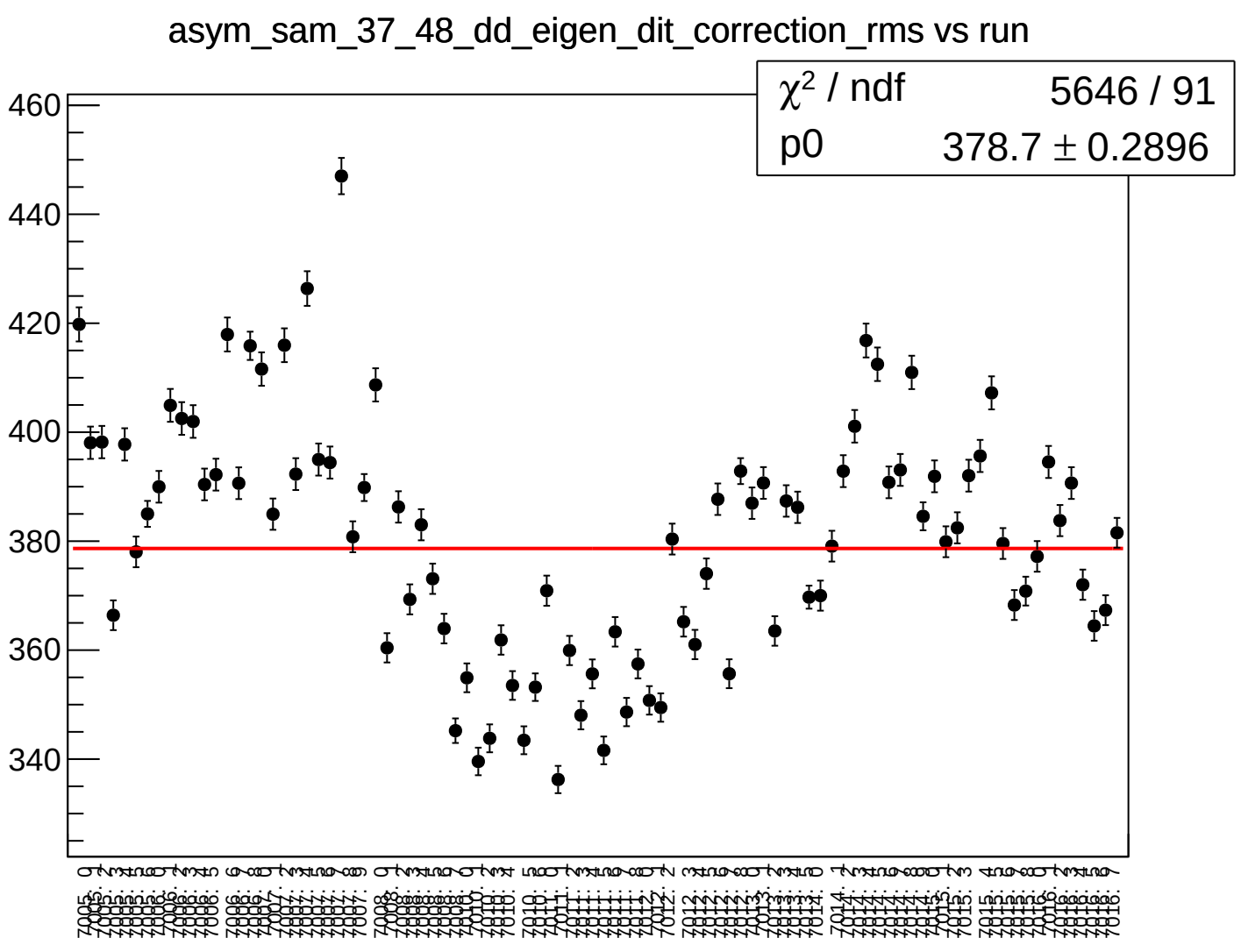

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 5646 / 91
p0 378.7 ± 0.2896
460
440
420
400
380
360
340

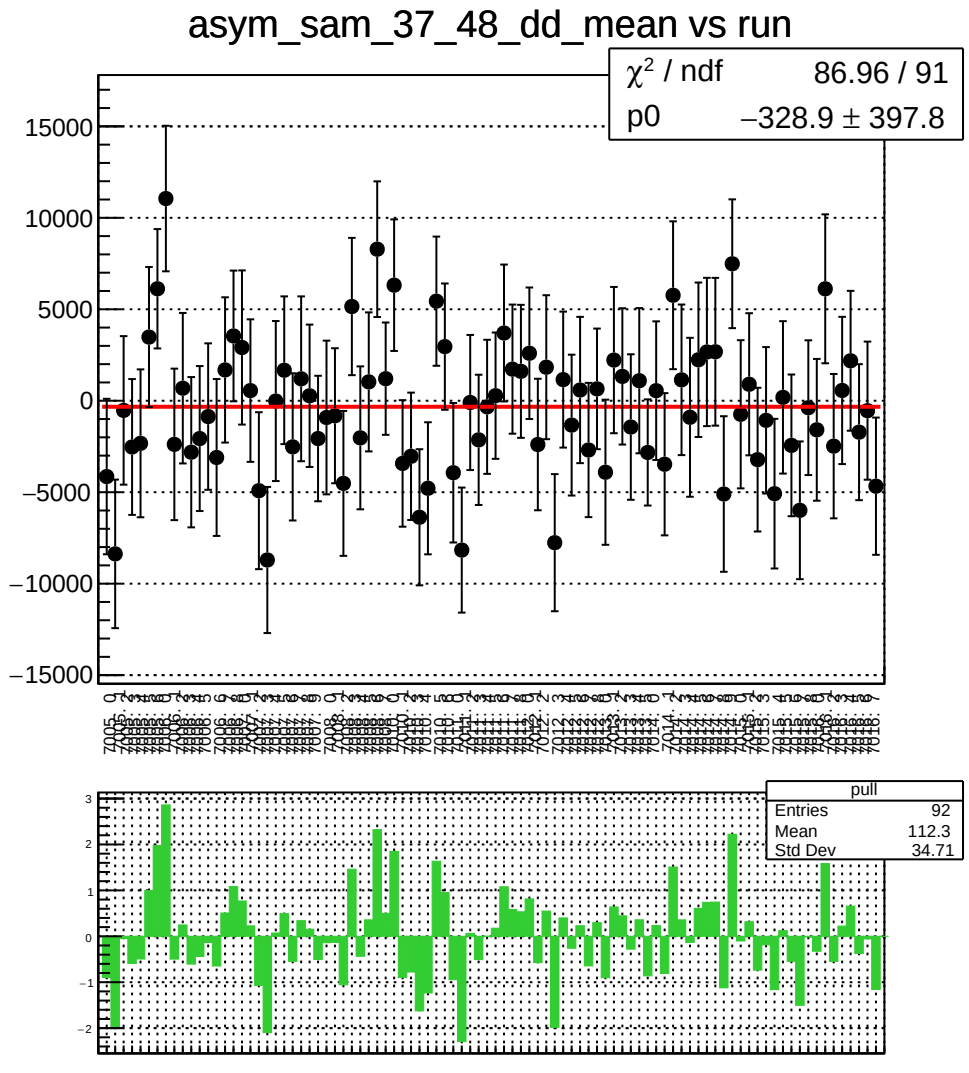

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 59.18 / 91
p0 23.42 ± 74.65
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 419.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

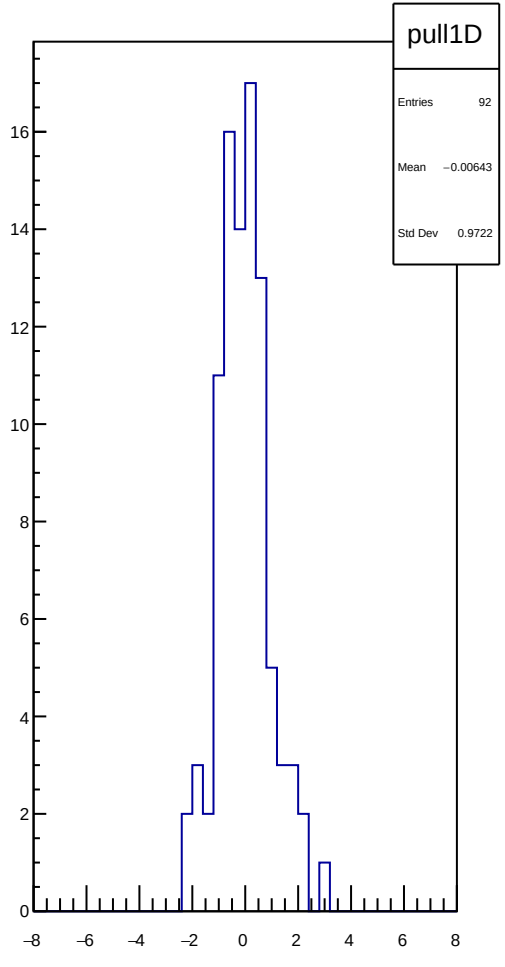

pull1D
Entries 92
Mean −0.009742
Std Dev 0.802
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

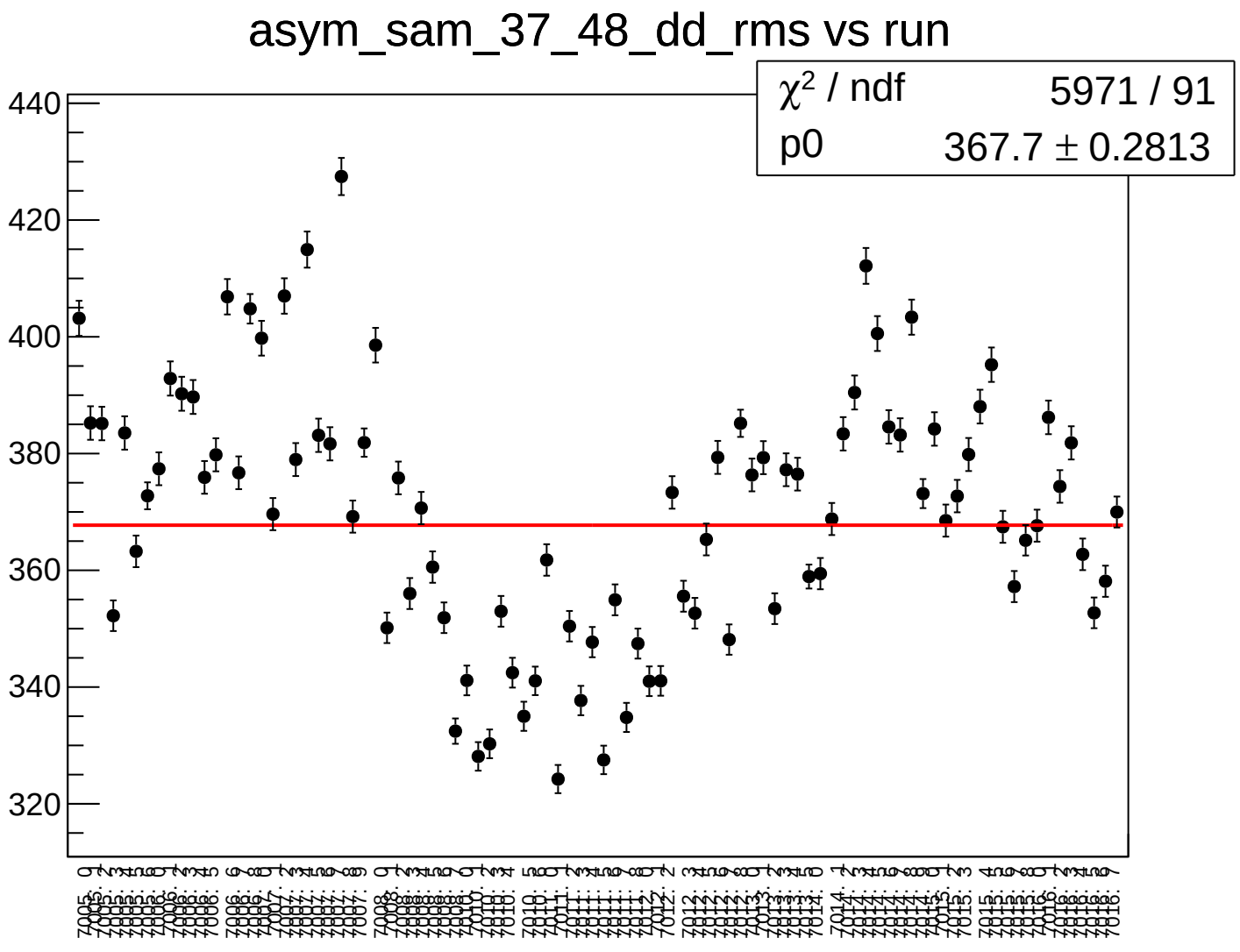

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1705 / 91
p0 69.1 ± 0.05279
74
72
70
68
66

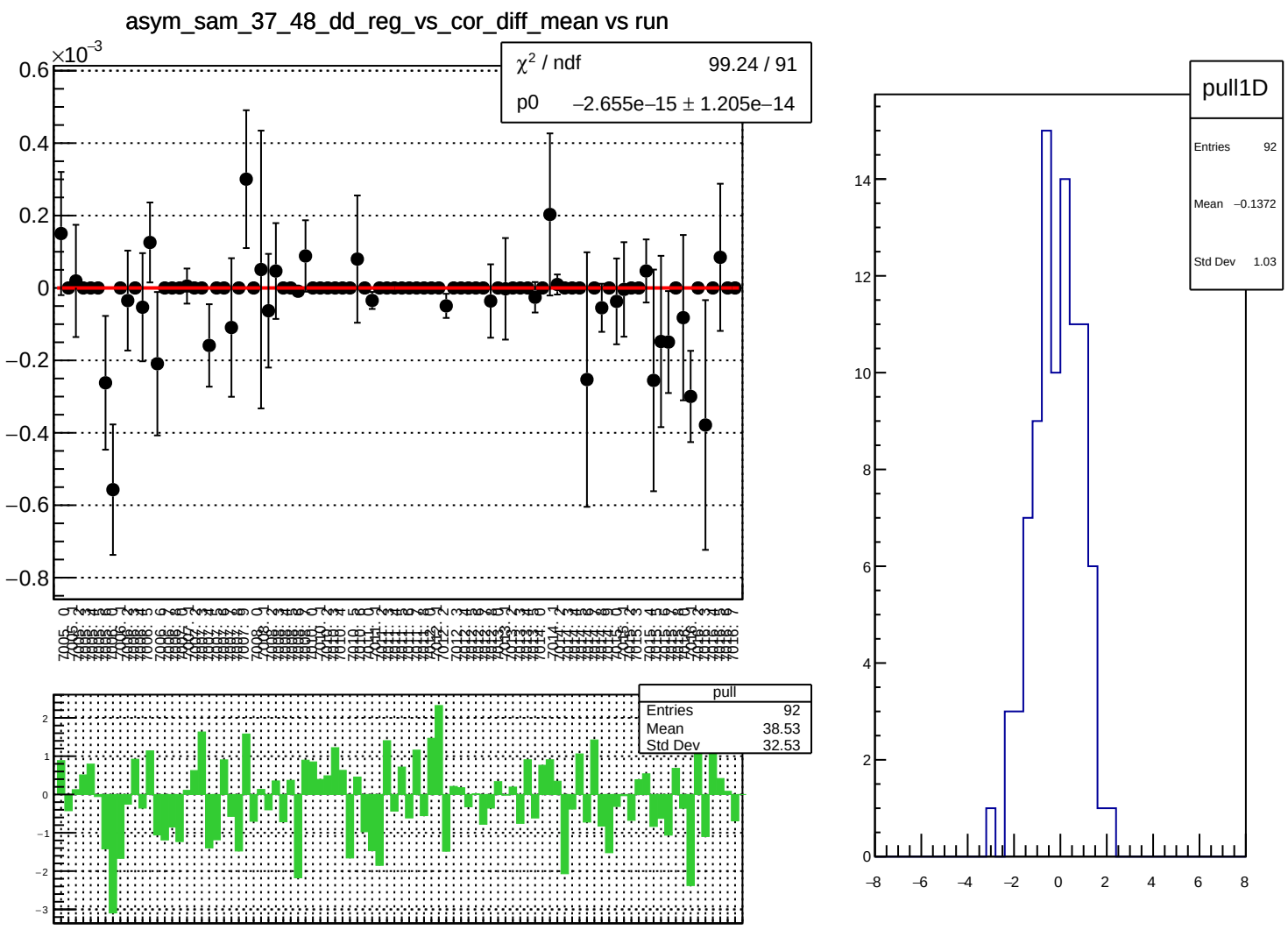

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.09 / 91
p0 351.3 ± 409.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −6.007
Std Dev 57.25
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.004542
Std Dev 0.9895
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

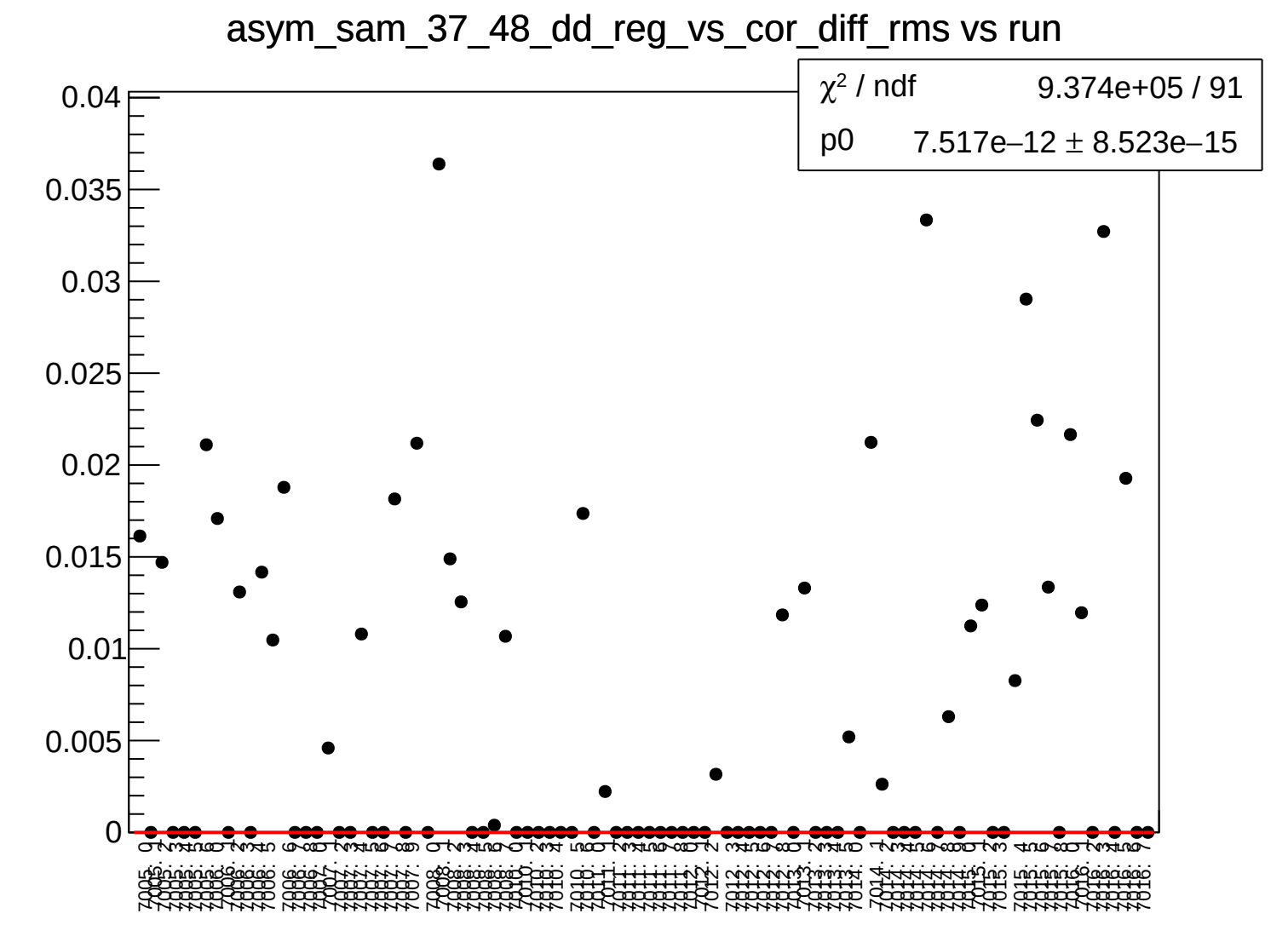

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 5646 / 91
p0 378.7 ± 0.2896
460
440
420
400
380
360
340

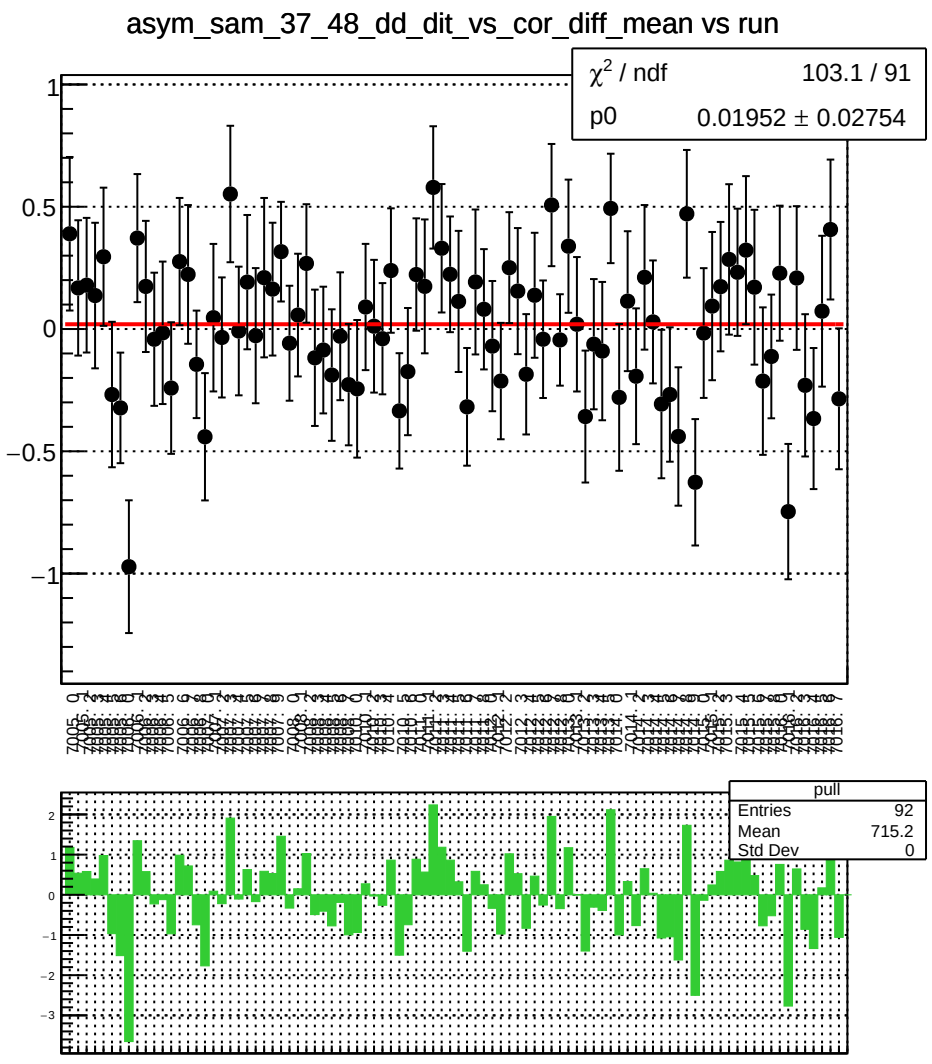

asym_sam_37_48_dd_mean vs run
χ² / ndf 86.96 / 91
p0 −328.9 ± 397.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 112.3
Std Dev 34.71
3
2
1
0
−1
−2

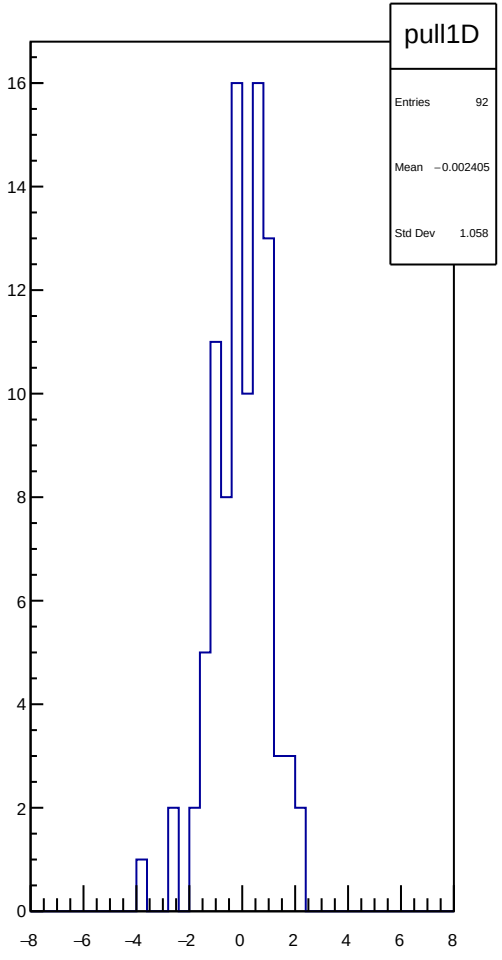

pull1D
Entries 92
Mean −0.00643
Std Dev 0.9722
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

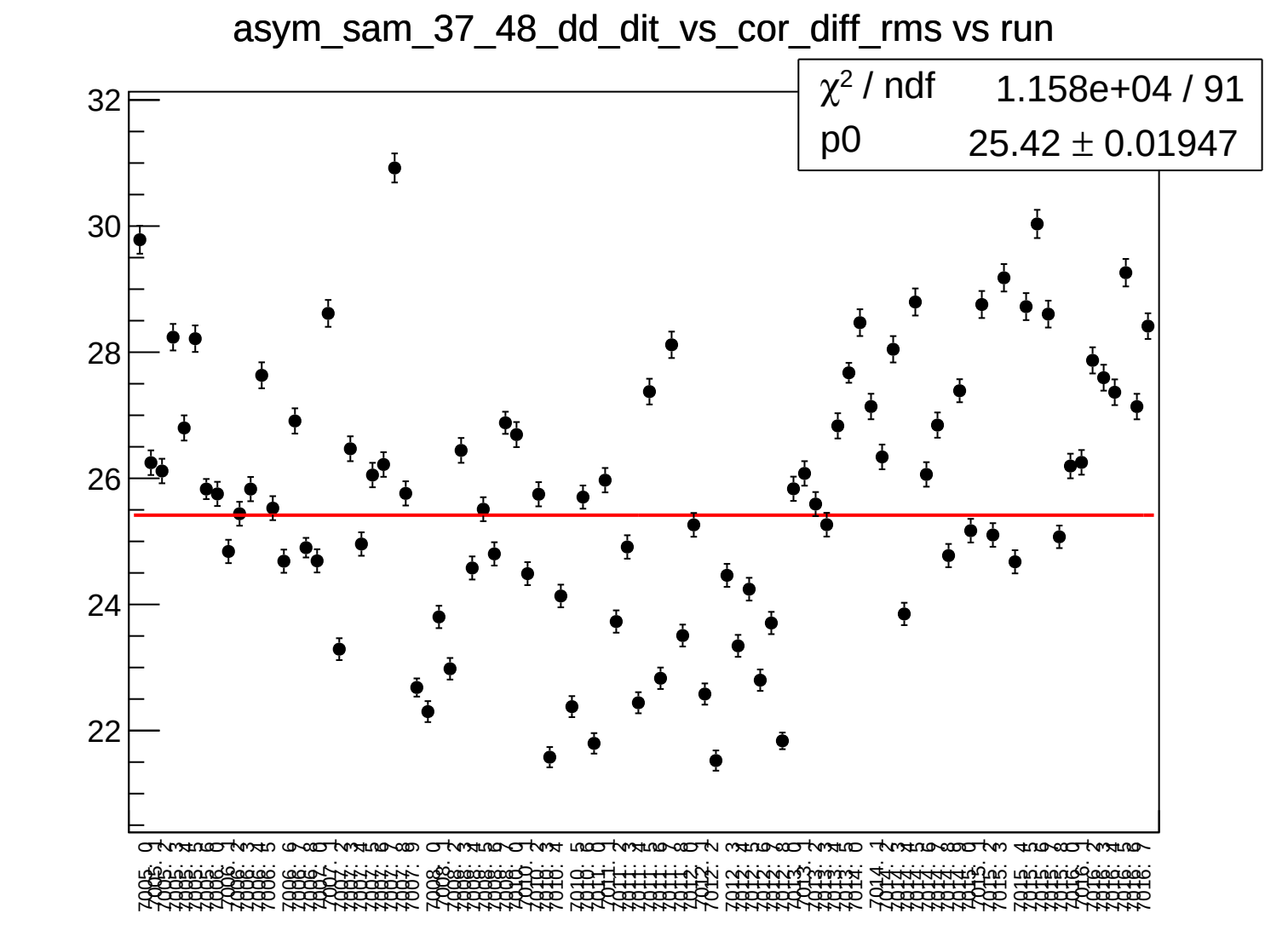

asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 5971 / 91
p0 367.7 ± 0.2813
440
420
400
380
360
340
320

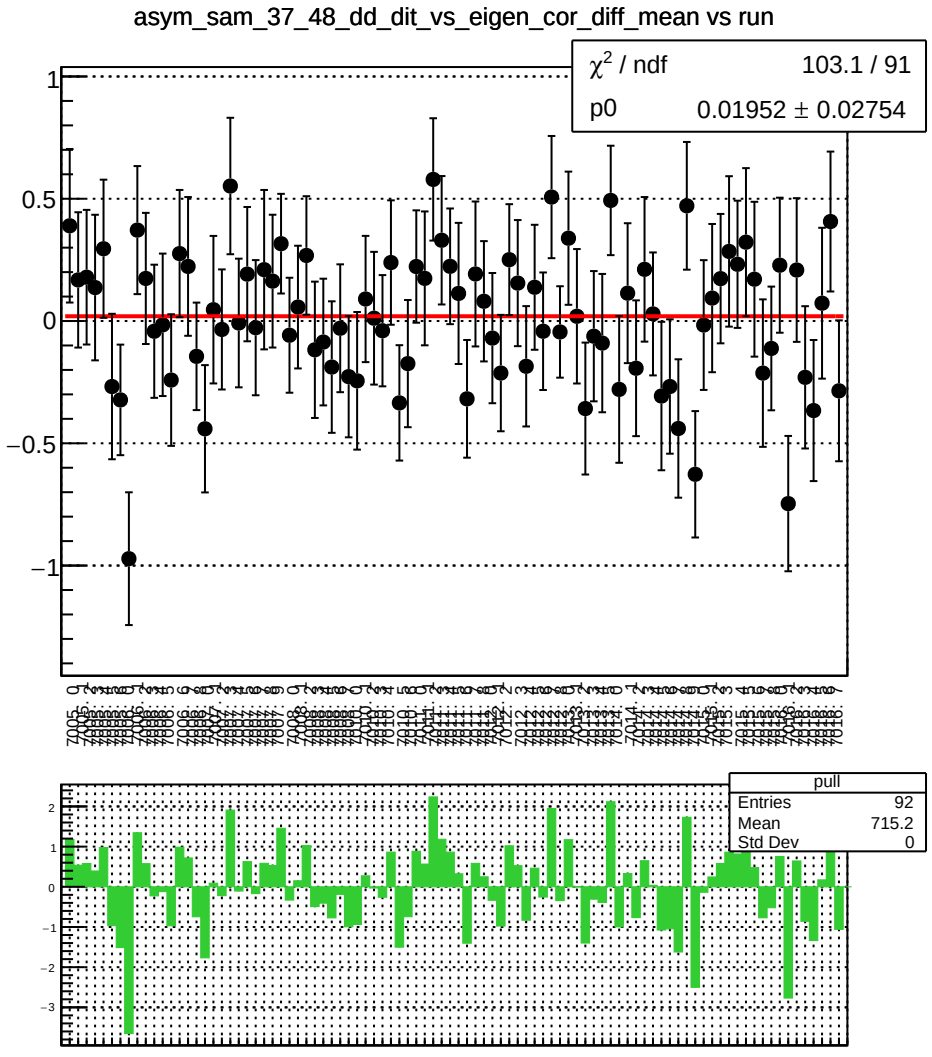

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 99.24 / 91
p0 −2.655e−15 ± 1.205e−14
pull
Entries 92
Mean 38.53
Std Dev 32.53
pull1D
Entries 92
Mean −0.1372
Std Dev 1.03

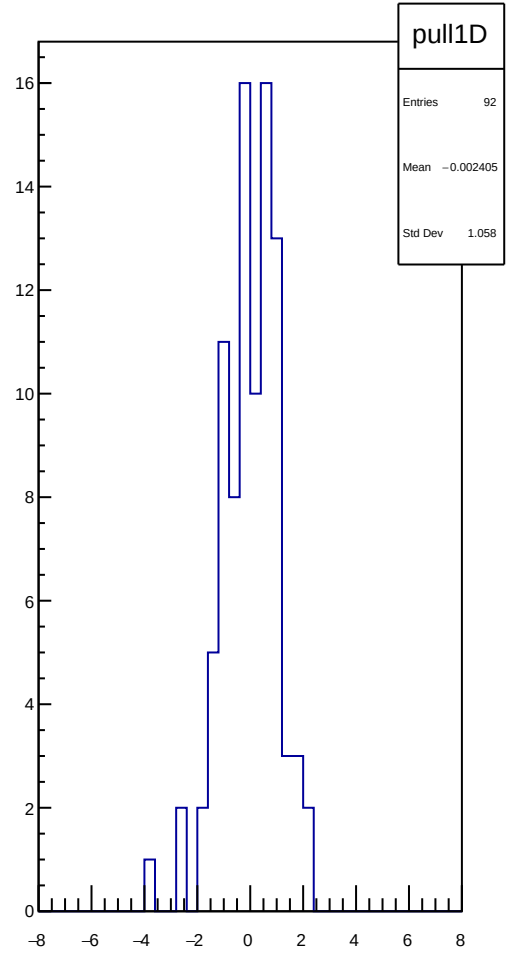

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.374e+05 / 91
p0 7.517e−12 ± 8.523e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

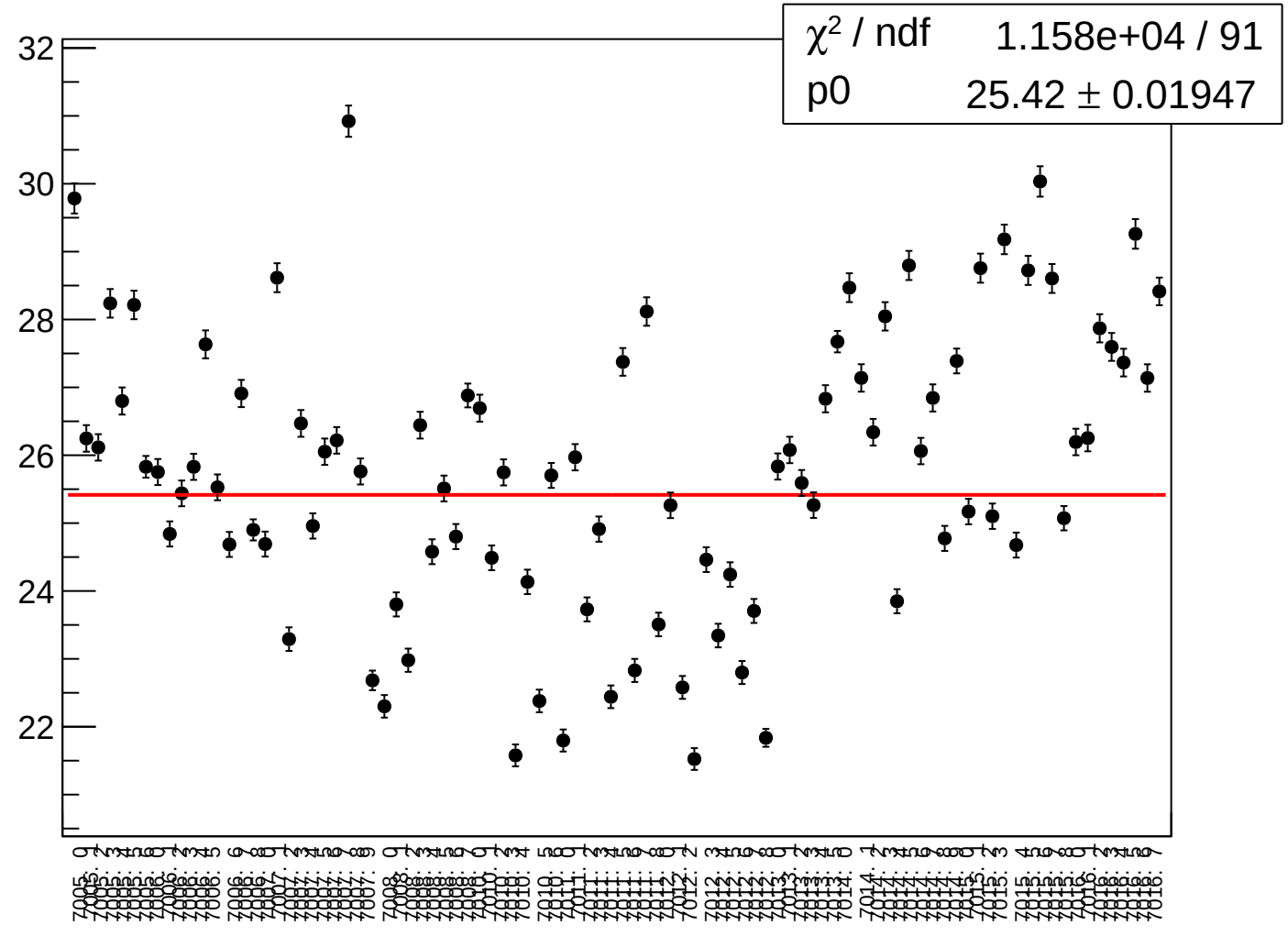

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.1 / 91
p0 0.01952 ± 0.02754
pull
Entries 92
Mean 715.2
Std Dev 0

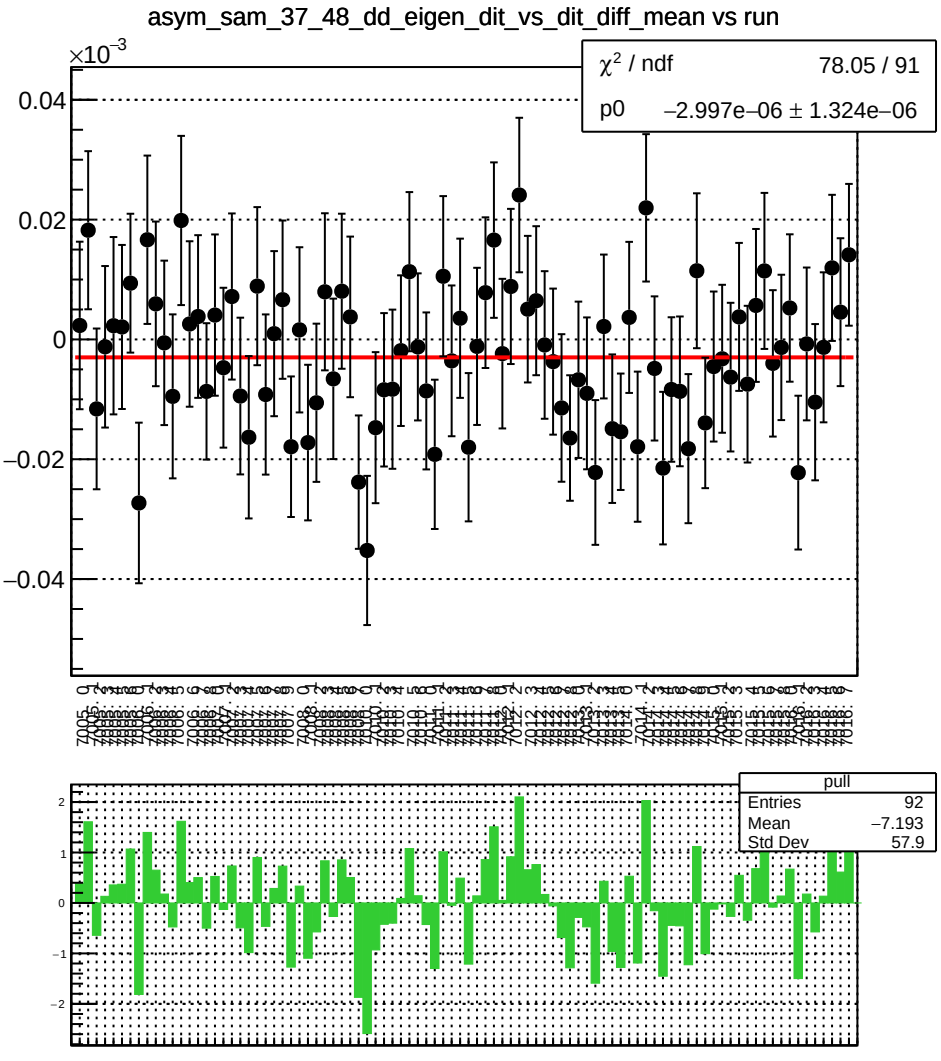

pull1D
Entries 92
Mean −0.002405
Std Dev 1.058

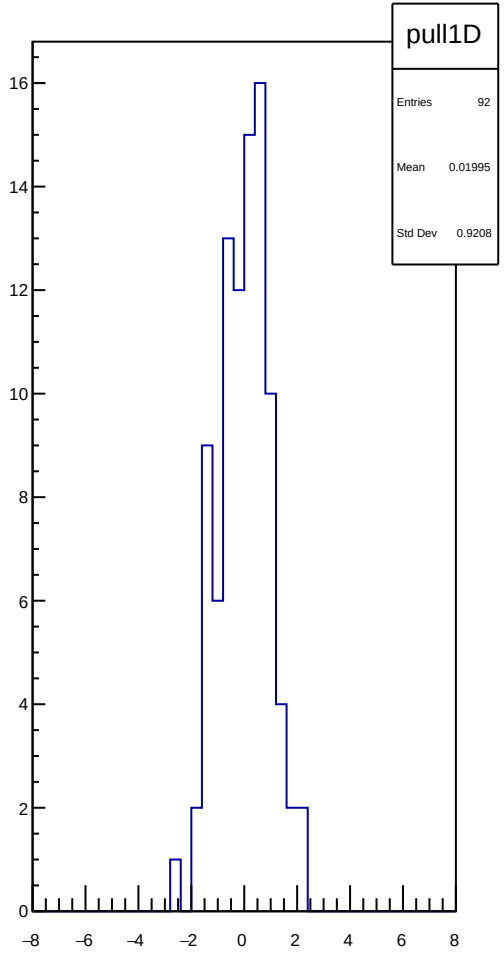

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.158e+04 / 91
p0 25.42 ± 0.01947
32
30
28
26
24
22

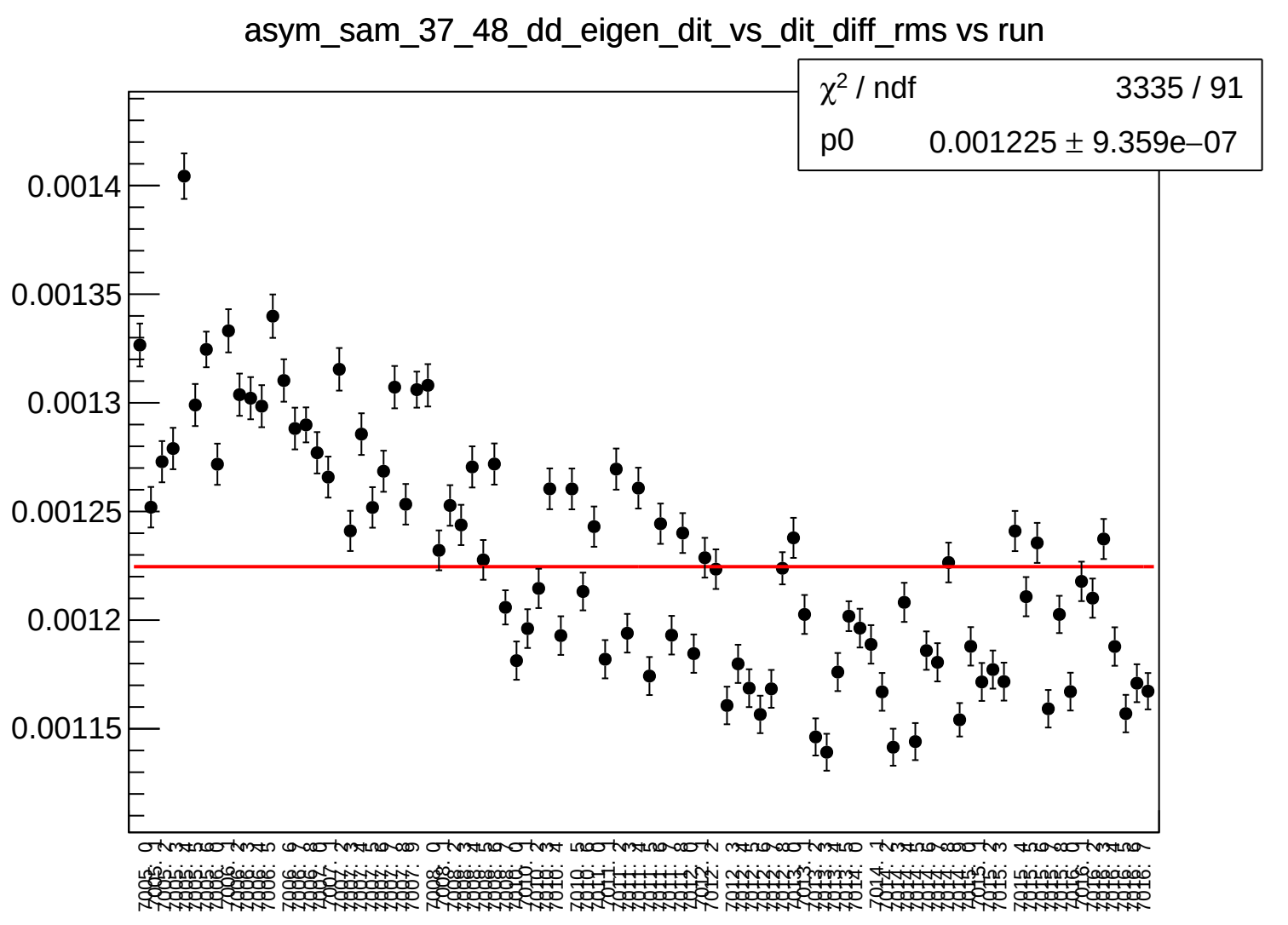

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.1 / 91
p0 0.01952 ± 0.02754
pull
Entries 92
Mean 715.2
Std Dev 0

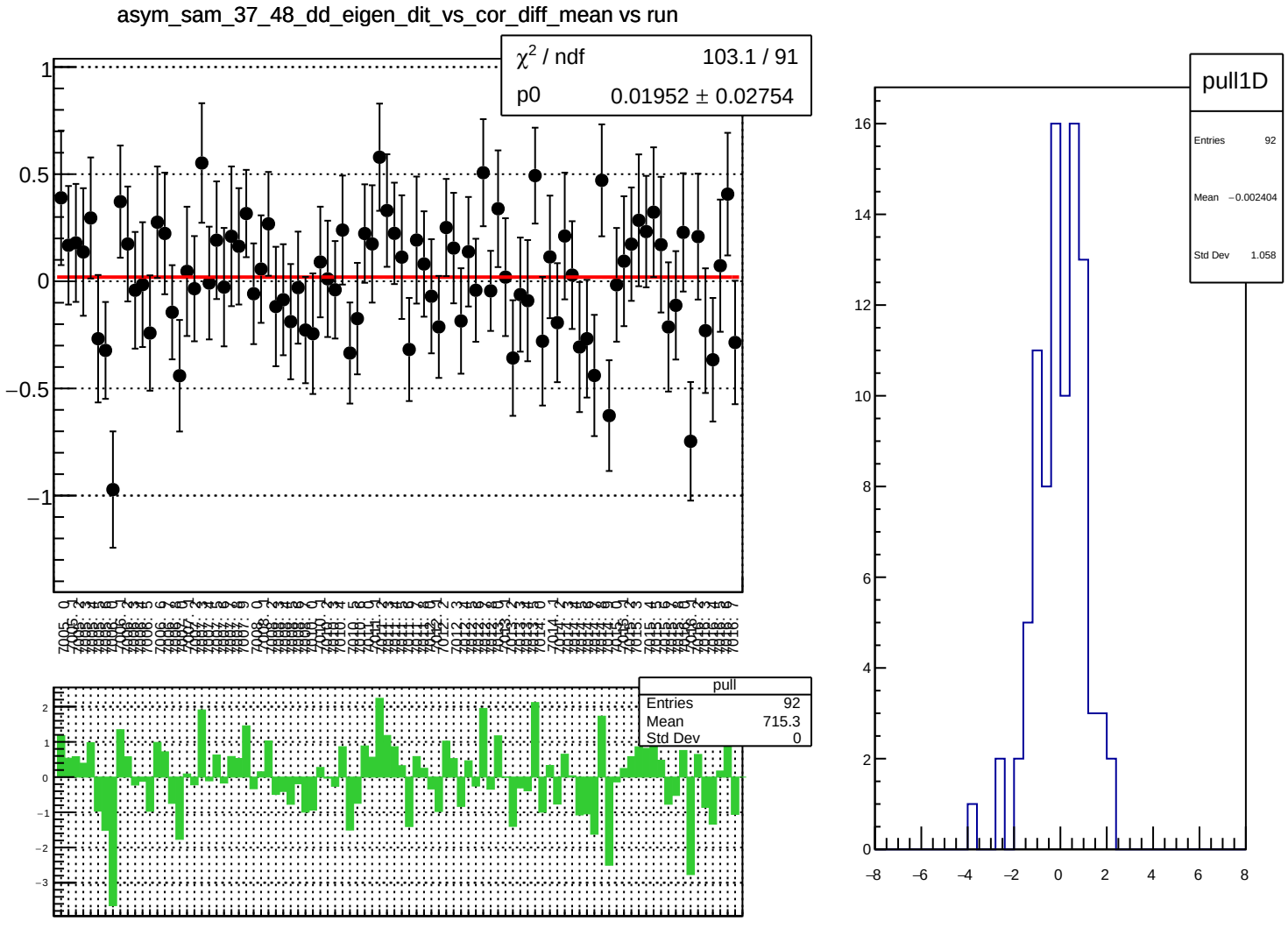

pull1D
Entries 92
Mean −0.002405
Std Dev 1.058

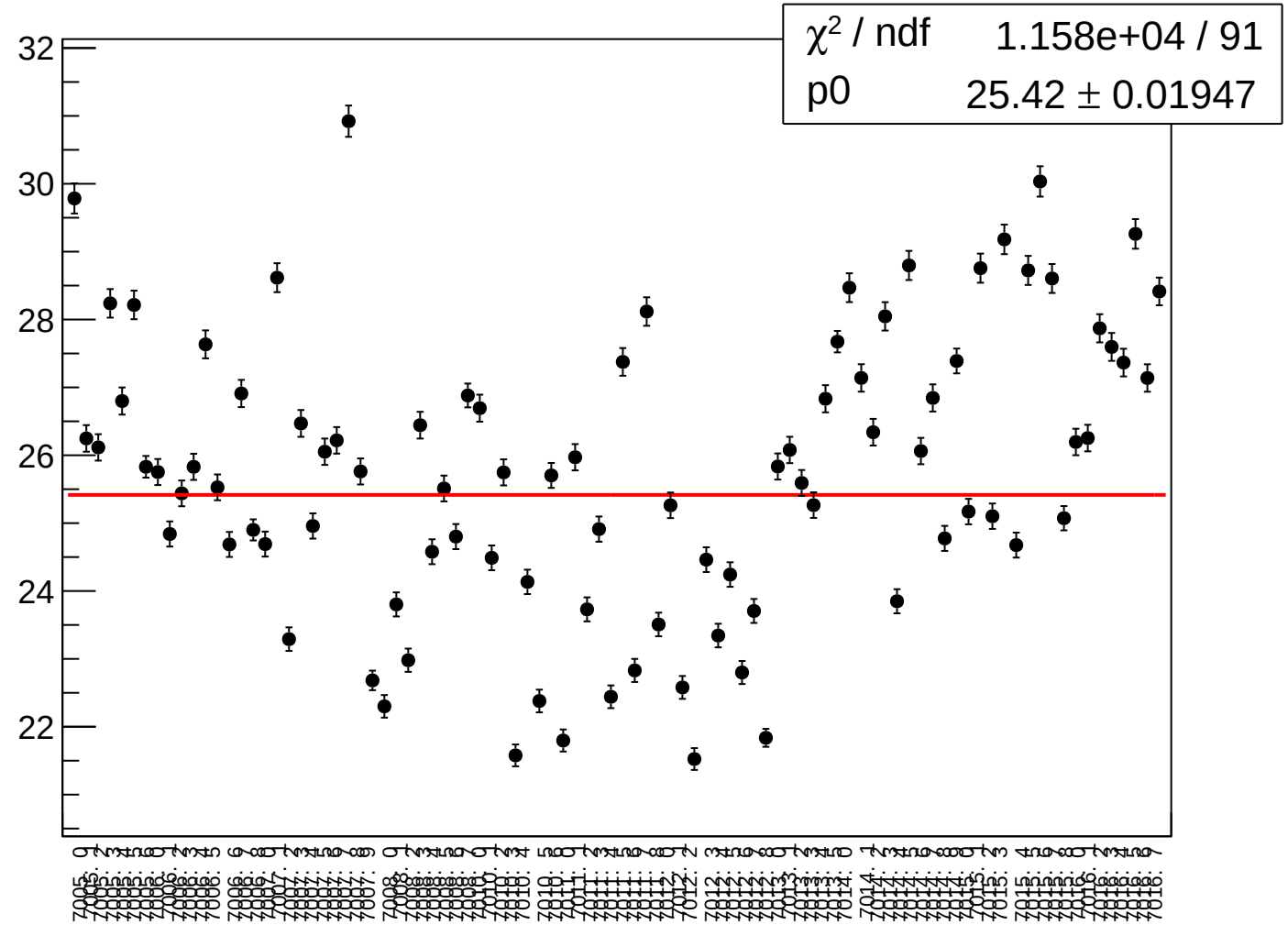

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.158e+04 / 91
p0 25.42 ± 0.01947
32
30
28
26
24
22

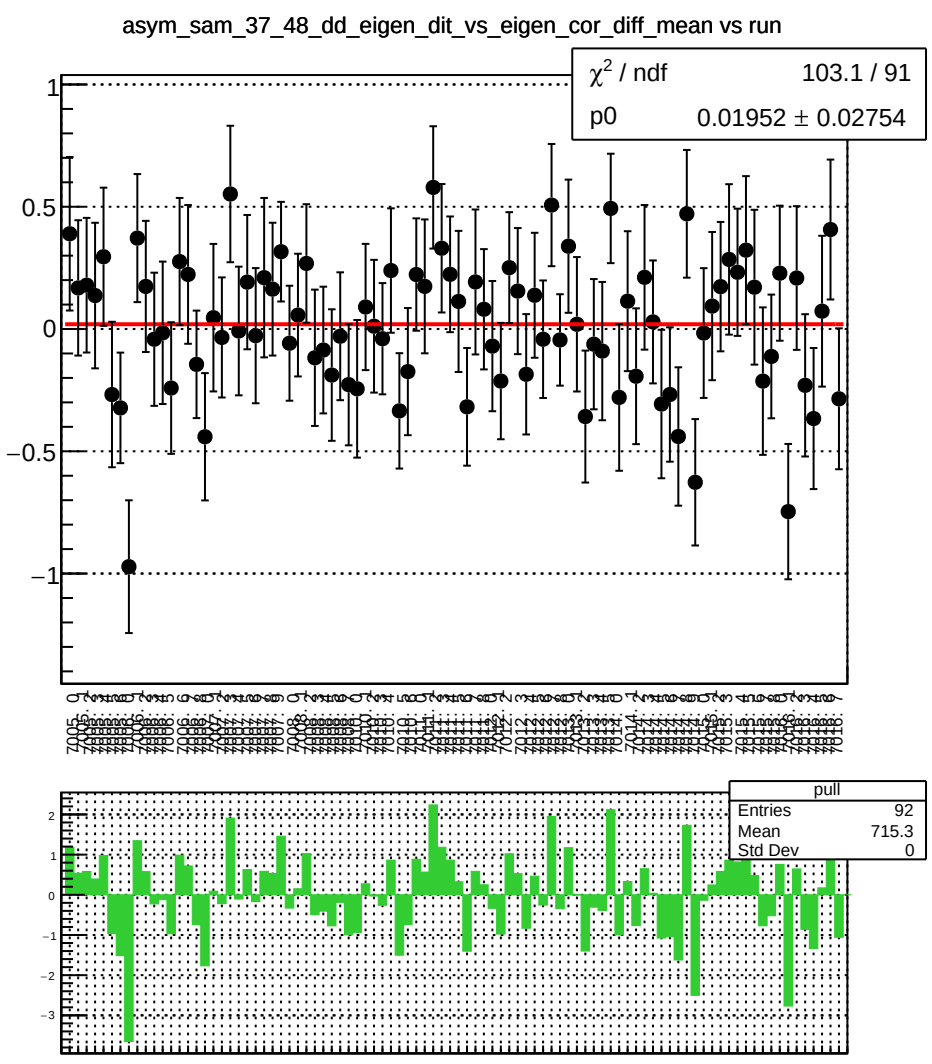

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.05 / 91
p0 −2.997e−06 ± 1.324e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean −7.193
Std Dev 57.9
2
1
0
−1
−2

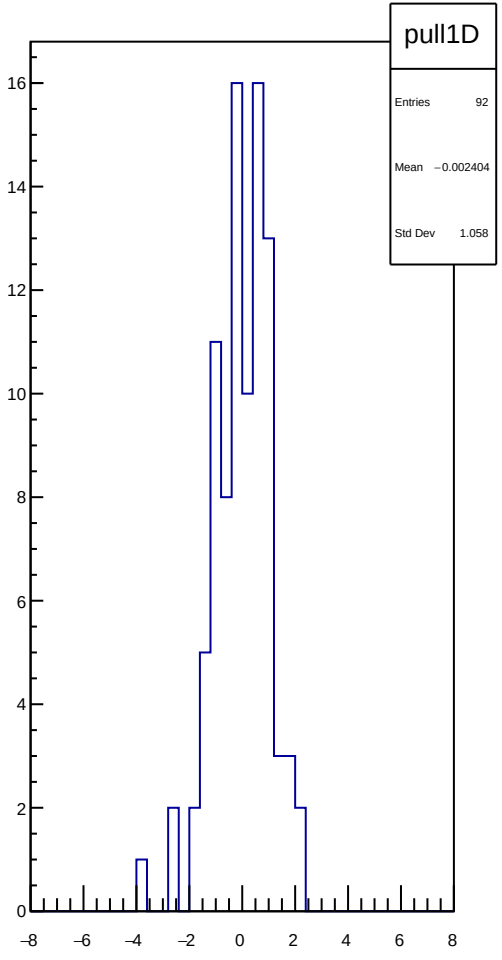

pull1D
Entries 92
Mean 0.01995
Std Dev 0.9208
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

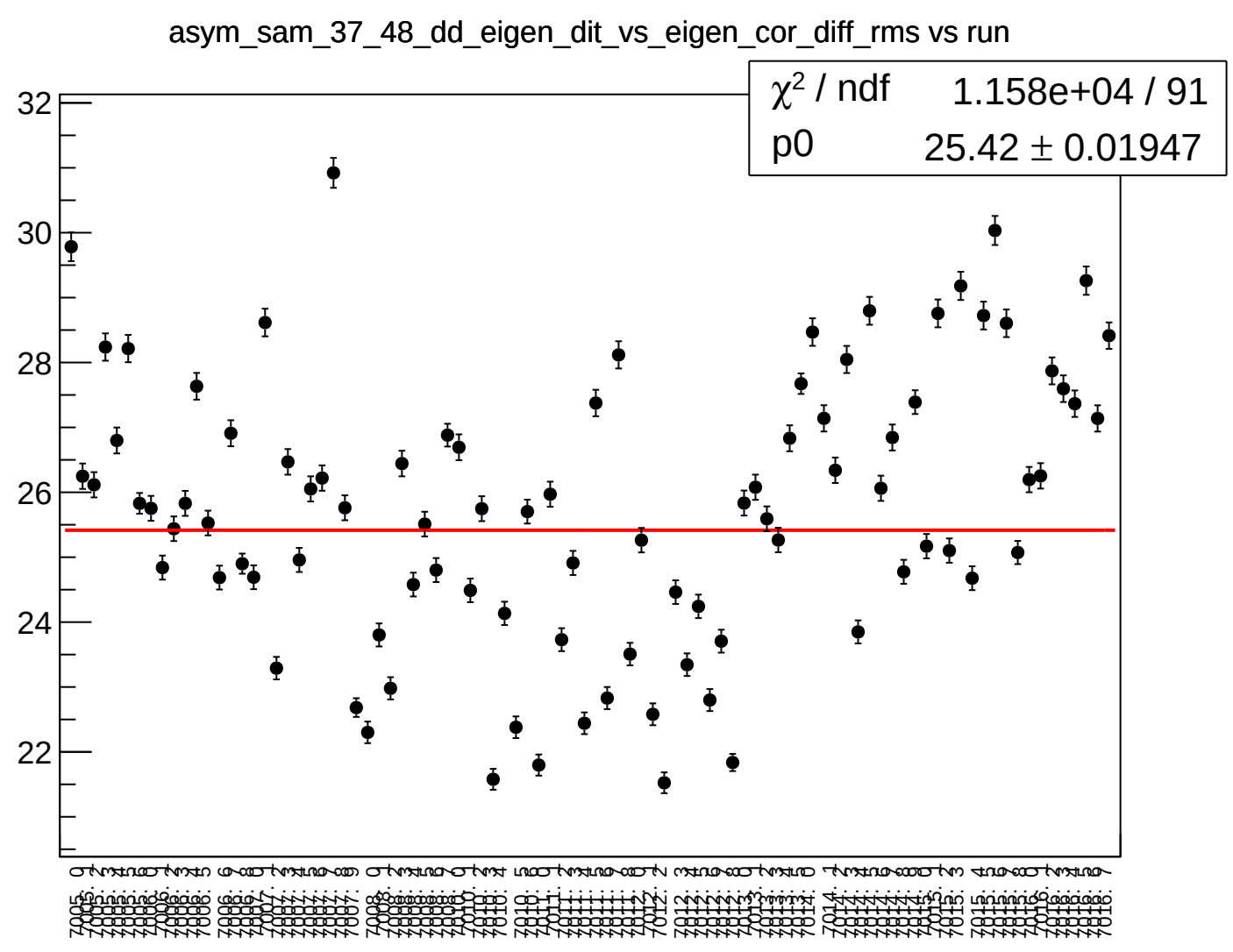

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3335 / 91
p0 0.001225 ± 9.359e−07
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115

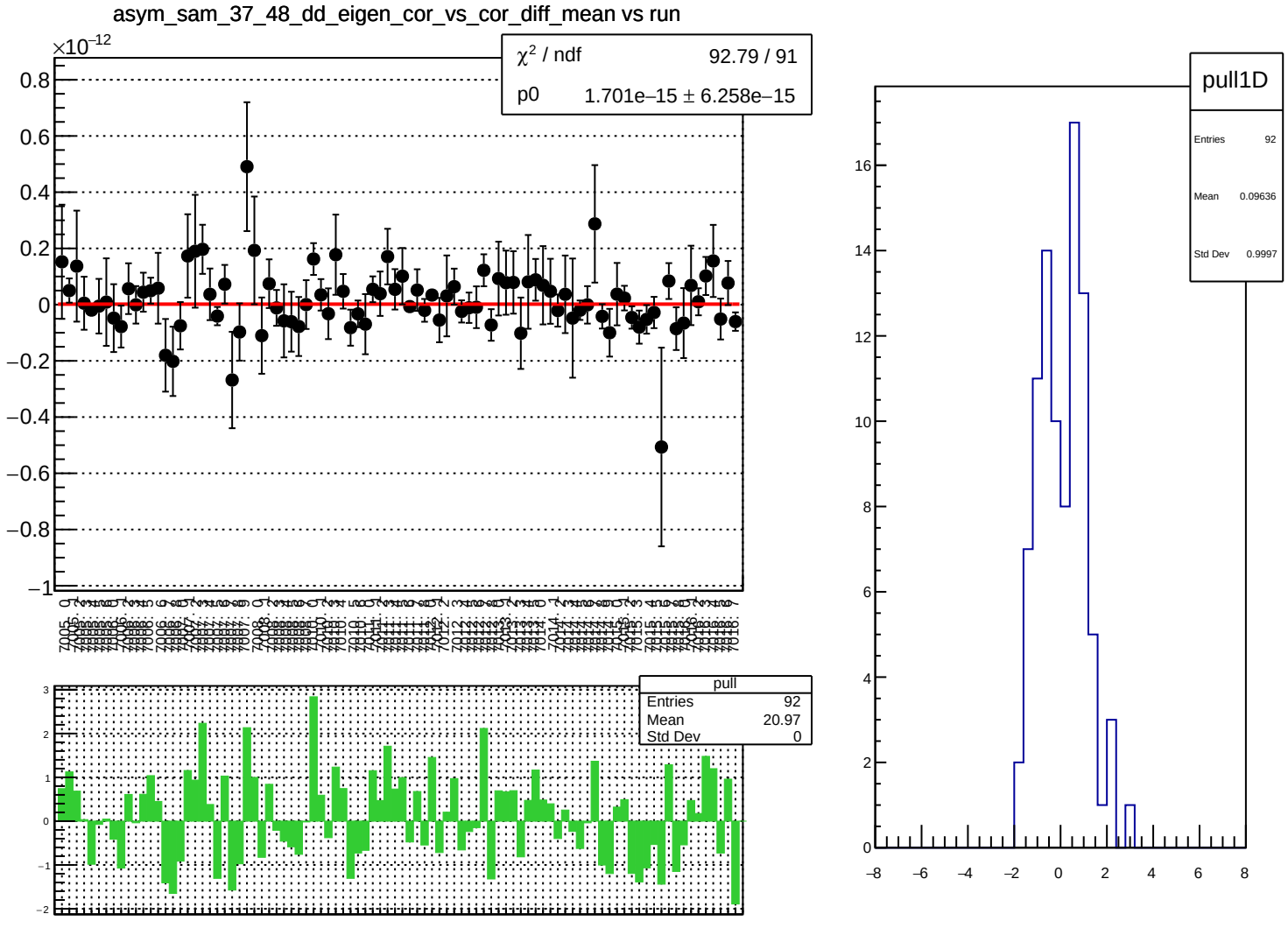

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.1 / 91
p0 0.01952 ± 0.02754
pull
Entries 92
Mean 715.3
Std Dev 0
pull1D
Entries 92
Mean −0.002404
Std Dev 1.058

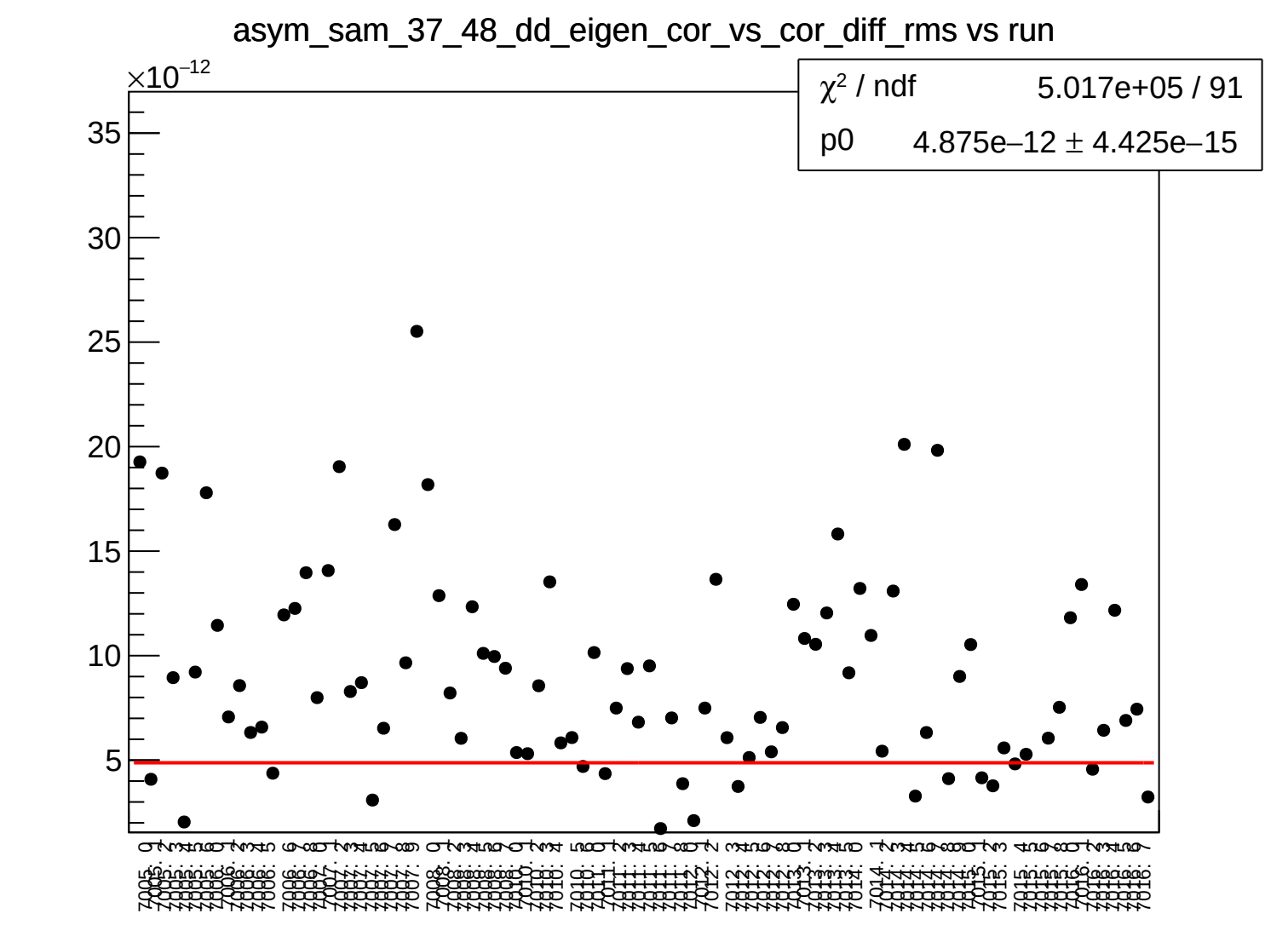

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.158e+04 / 91
p0 25.42 ± 0.01947
32
30
28
26
24
22

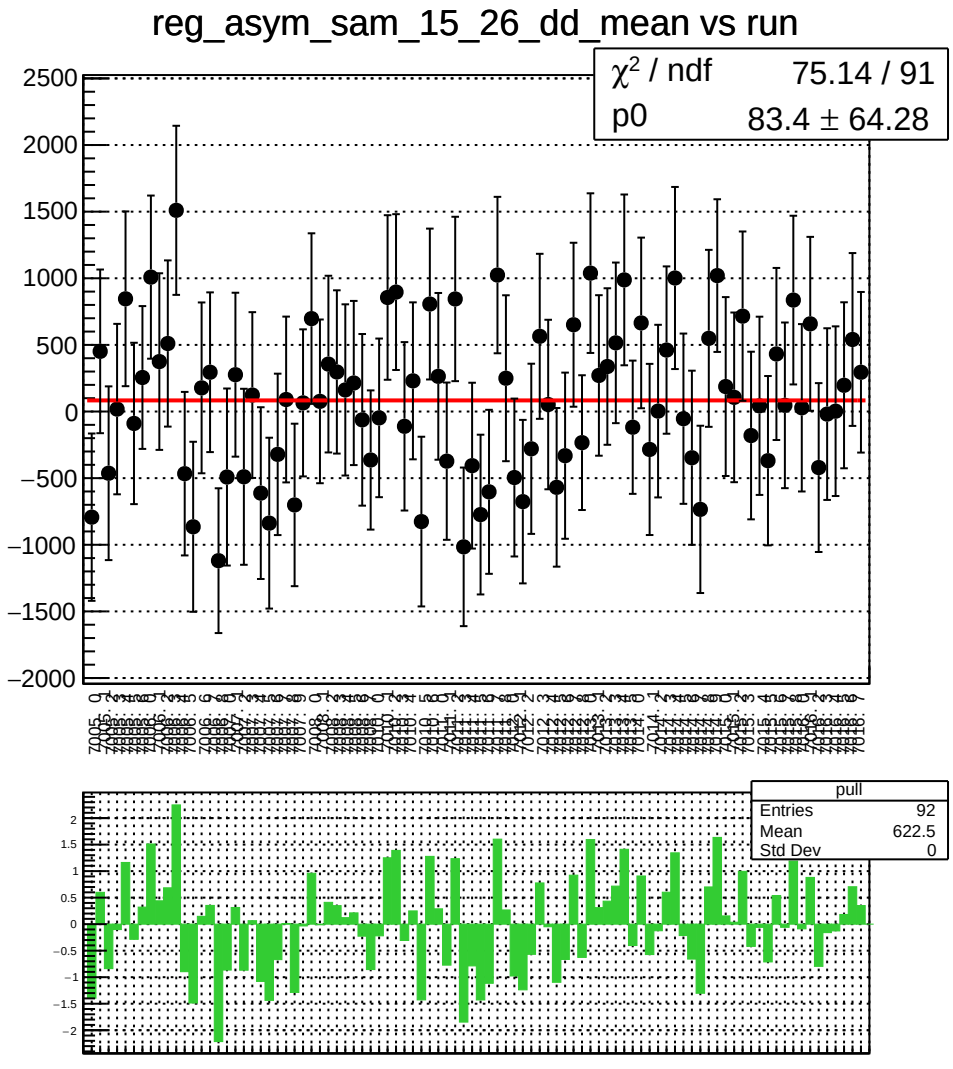

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.1 / 91
p0 0.01952 ± 0.02754
pull
Entries 92
Mean 715.3
Std Dev 0

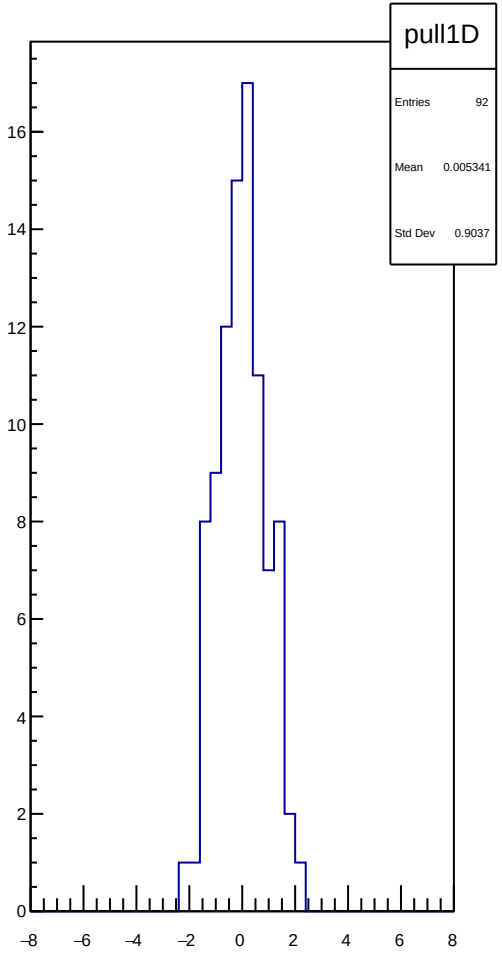

pull1D
Entries 92
Mean −0.002404
Std Dev 1.058

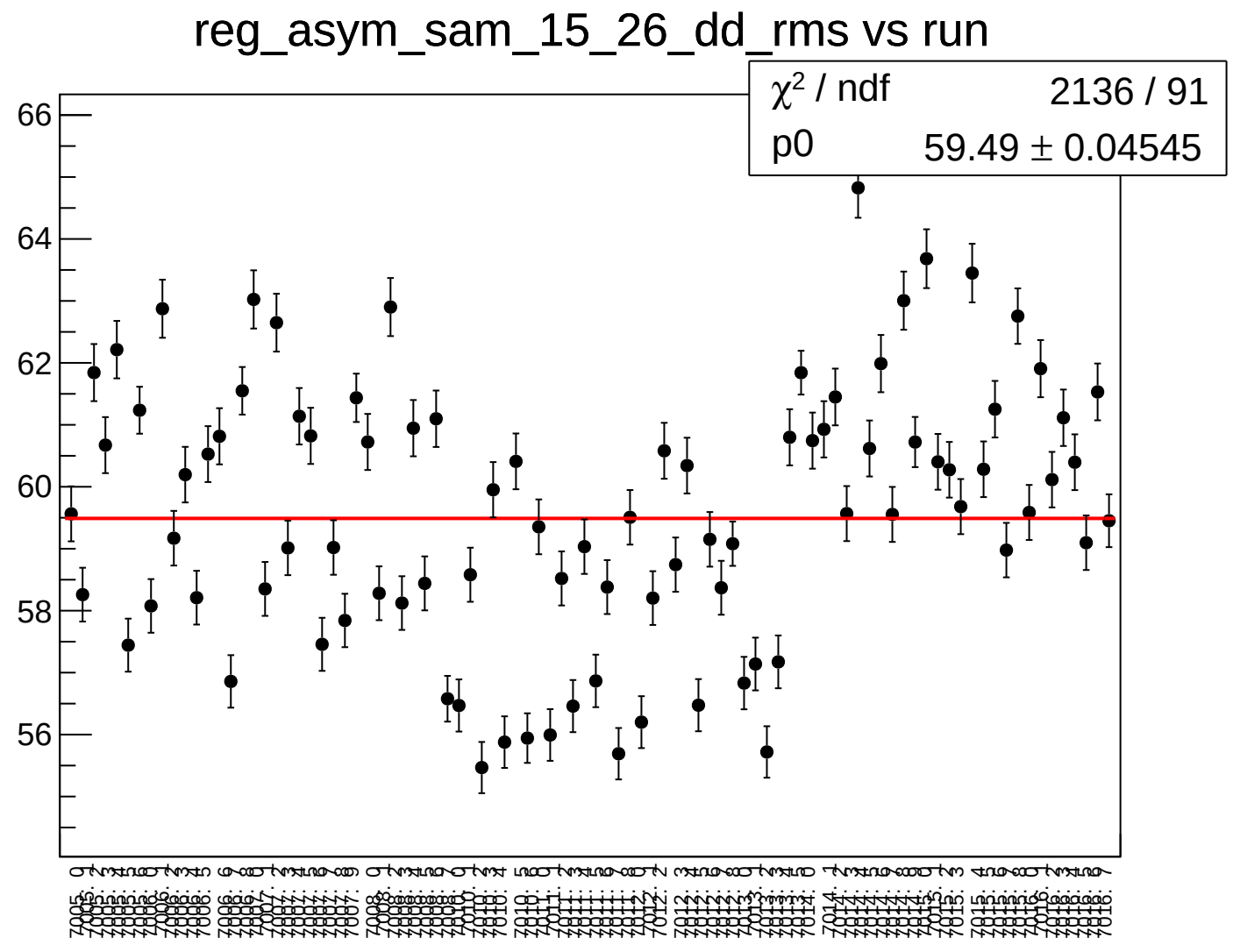

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.158e+04 / 91
p0 25.42 ± 0.01947
32
30
28
26
24
22

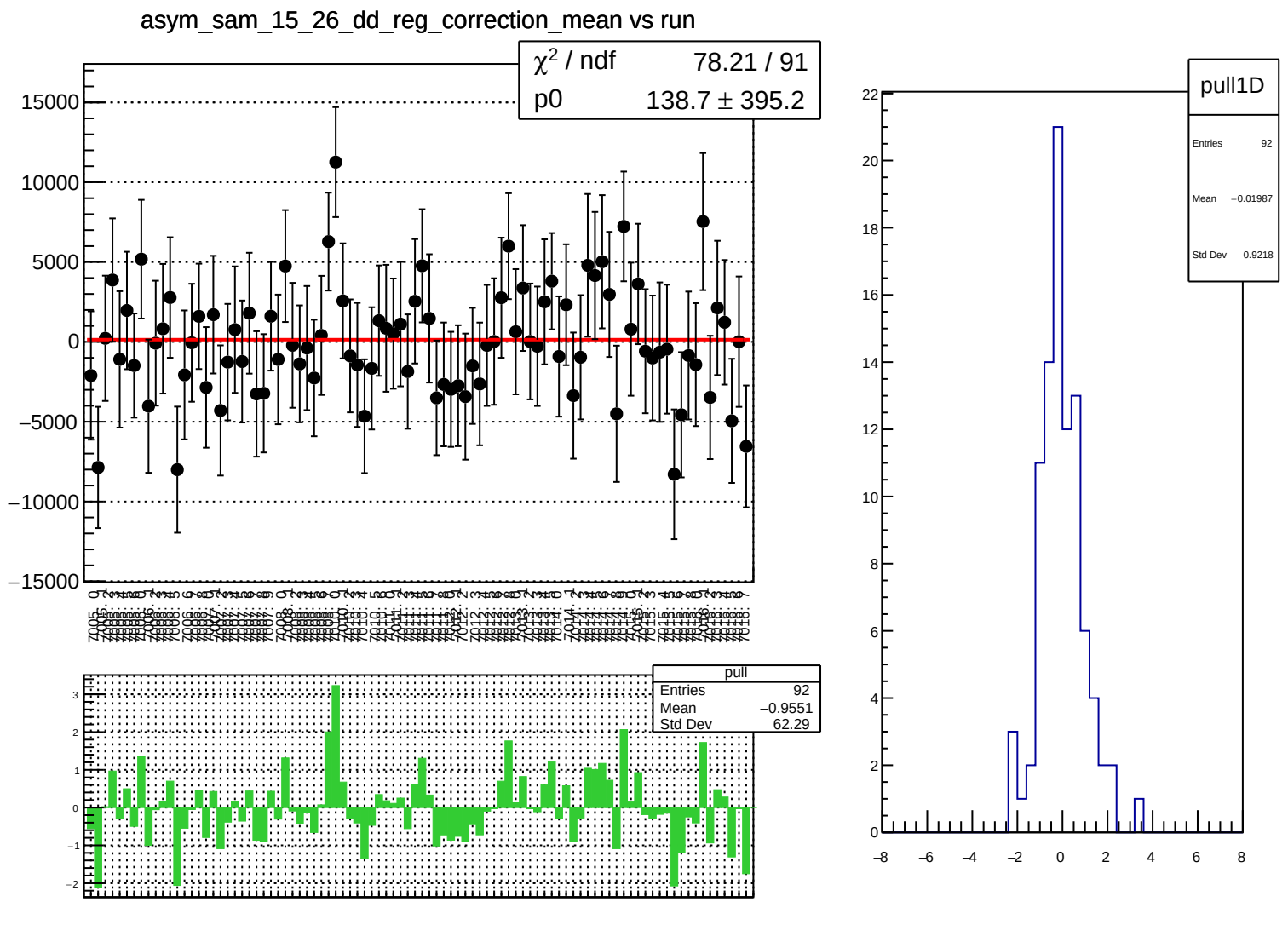

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.79 / 91
p0 1.701e−15 ± 6.258e−15
pull
Entries 92
Mean 20.97
Std Dev 0
pull1D
Entries 92
Mean 0.09636
Std Dev 0.9997

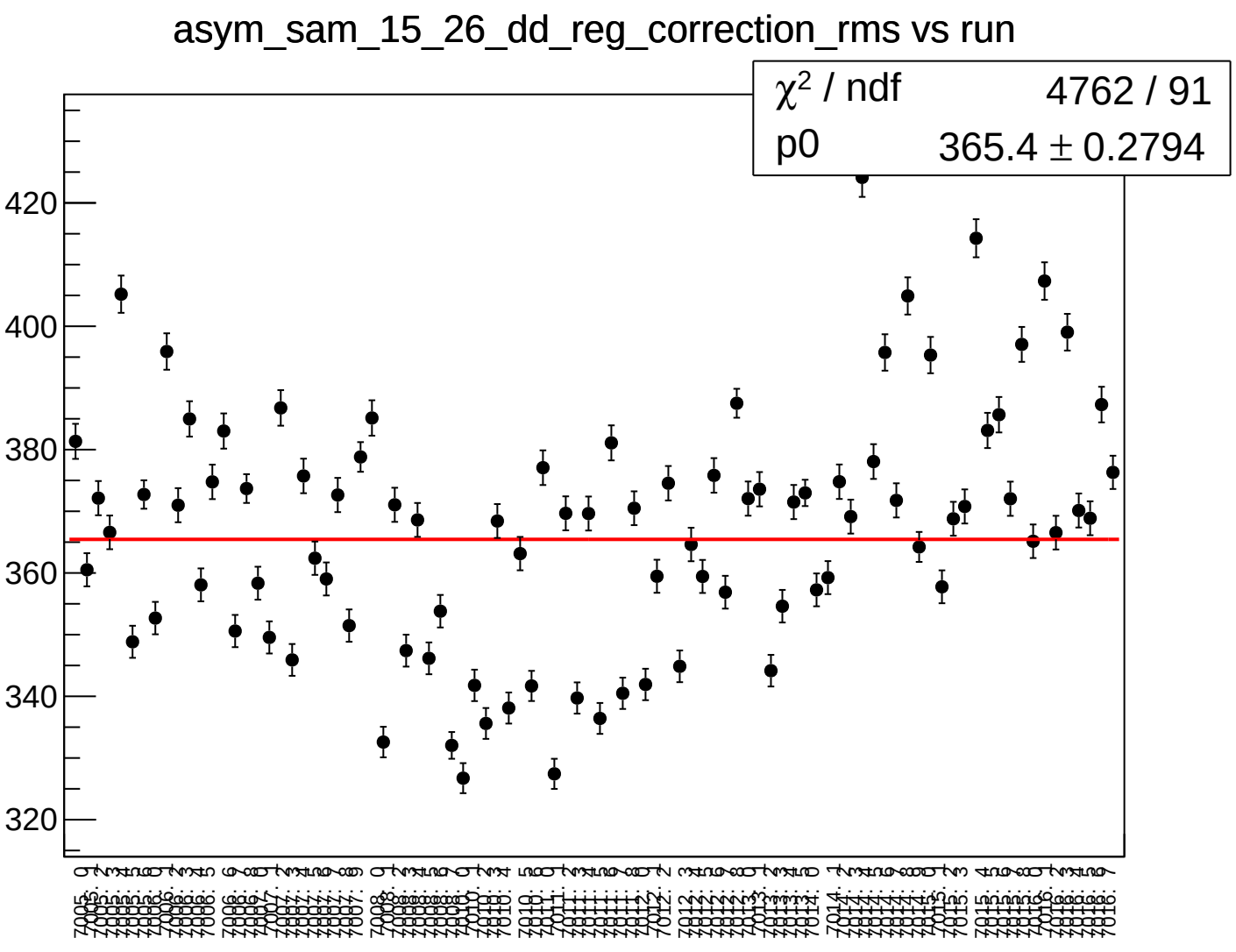

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.017e+05 / 91
p0 4.875e−12 ± 4.425e−15
35
30
25
20
15
10
5

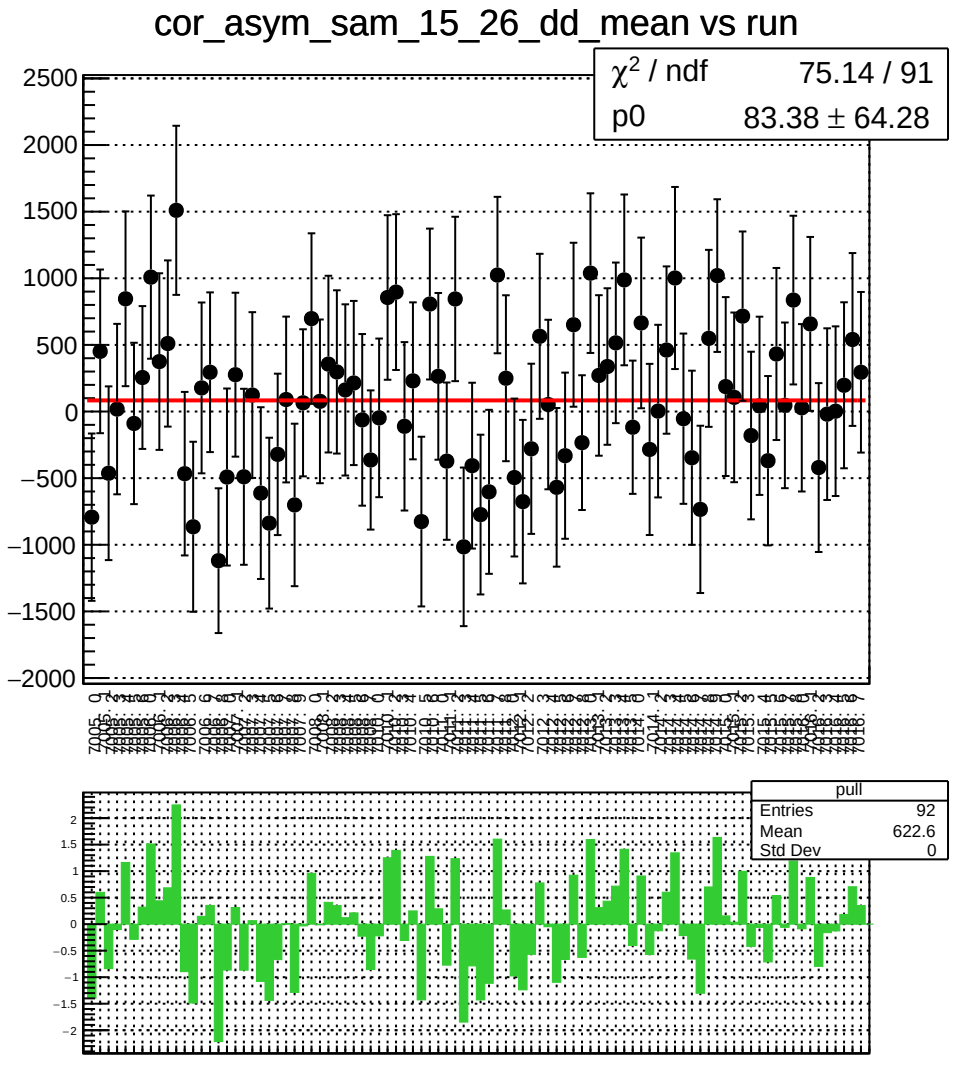

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.14 / 91
p0 83.4 ± 64.28
pull
Entries 92
Mean 622.5
Std Dev 0

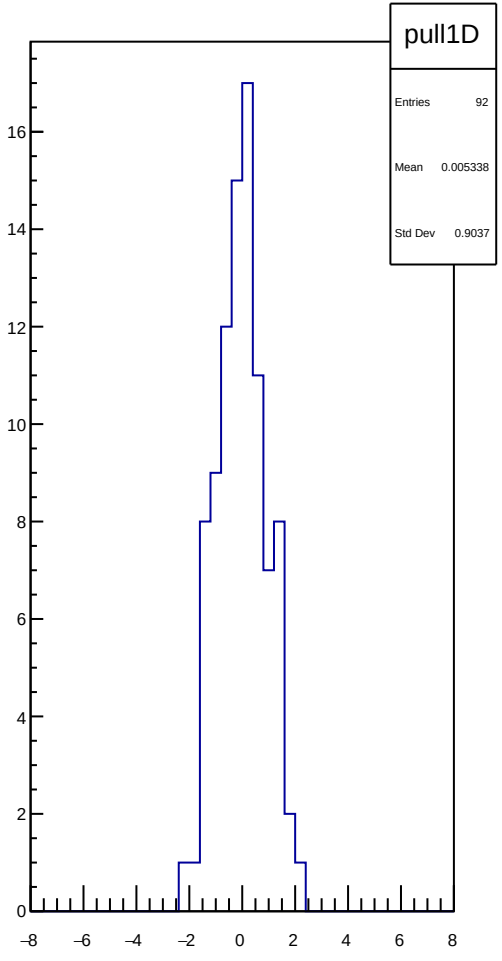

pull1D
Entries 92
Mean 0.005341
Std Dev 0.9037

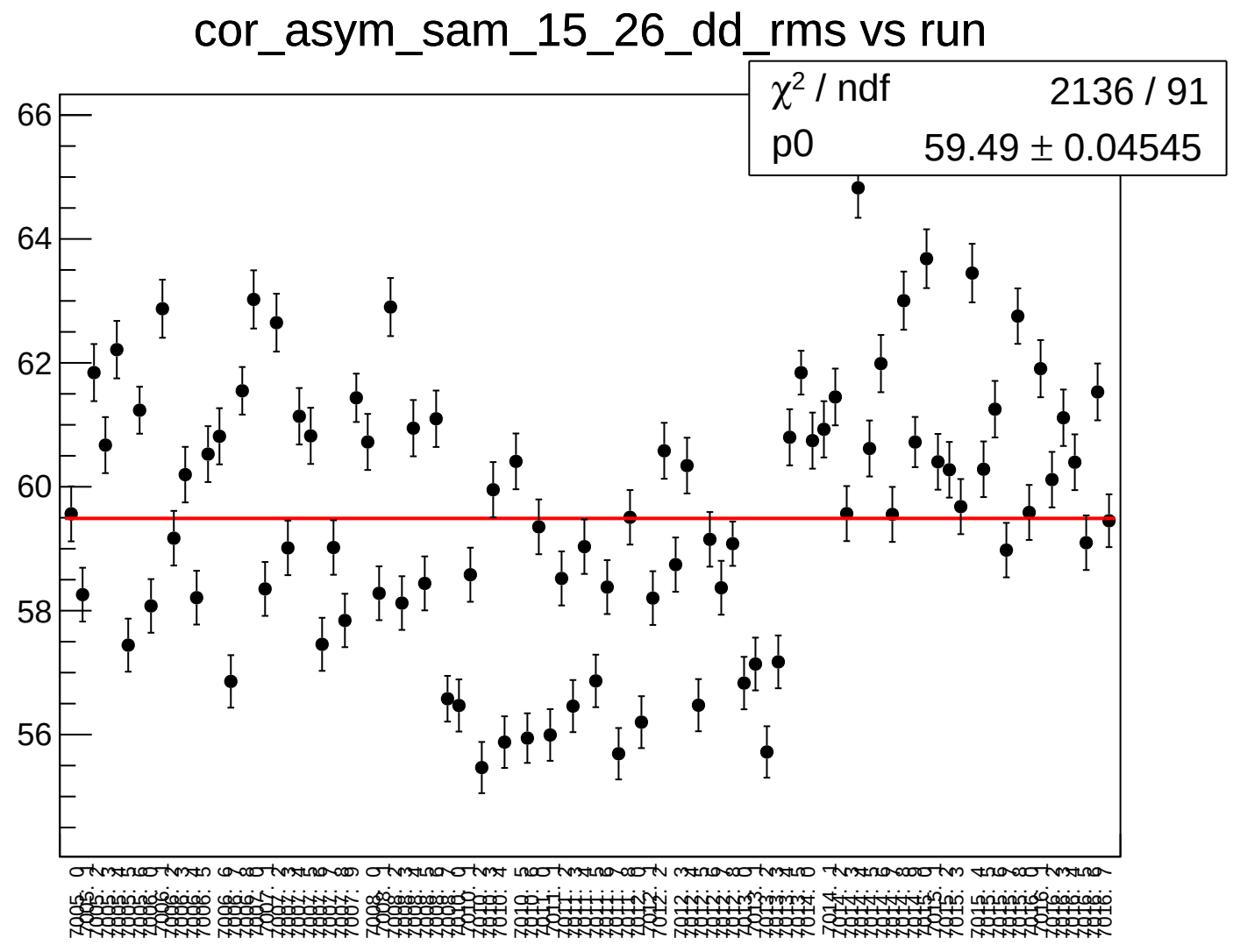

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2136 / 91
p0 59.49 ± 0.04545
66
64
62
60
58
56

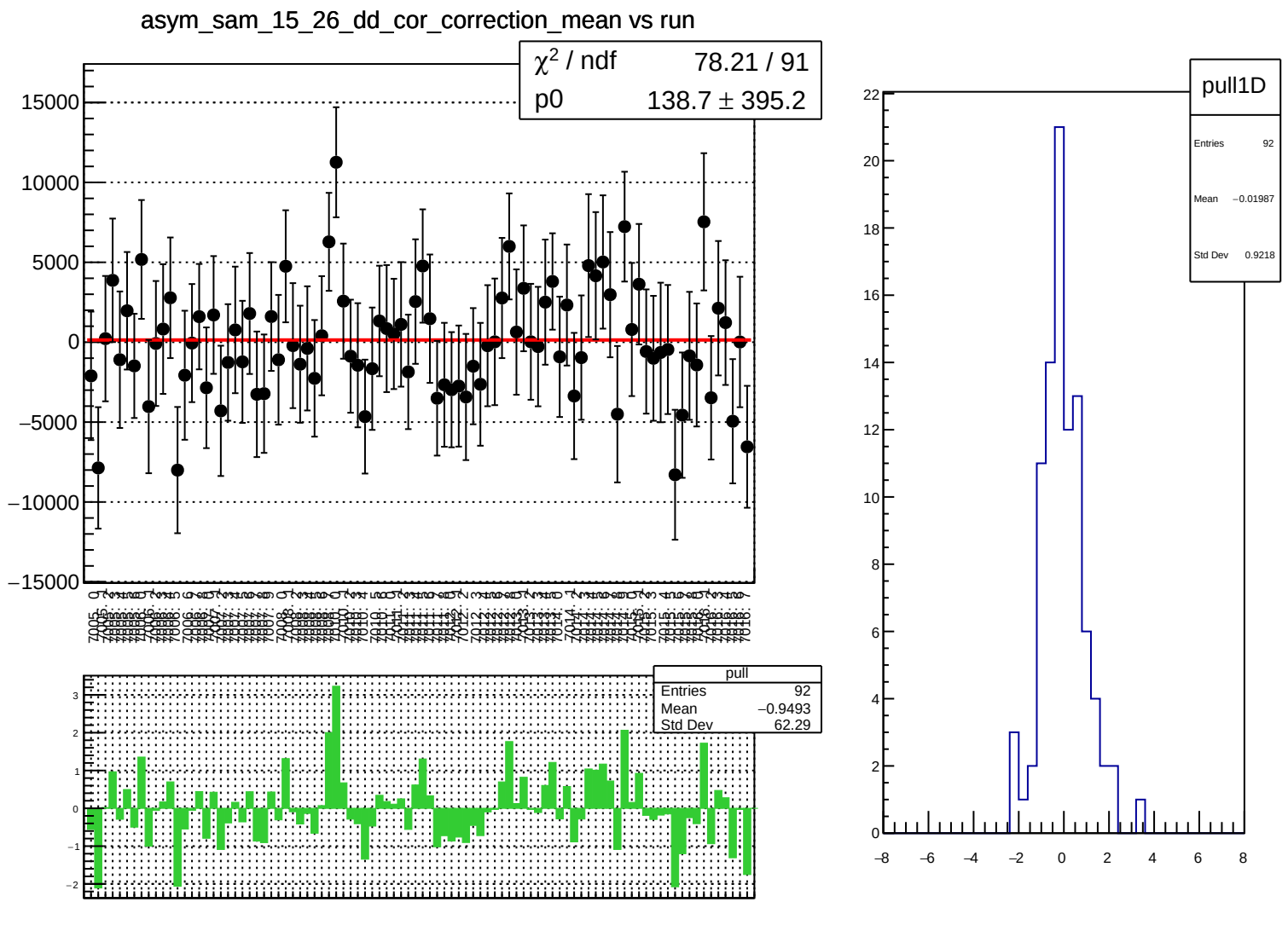

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 78.21 / 91
p0 138.7 ± 395.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −0.9551
Std Dev 62.29
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01987
Std Dev 0.9218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

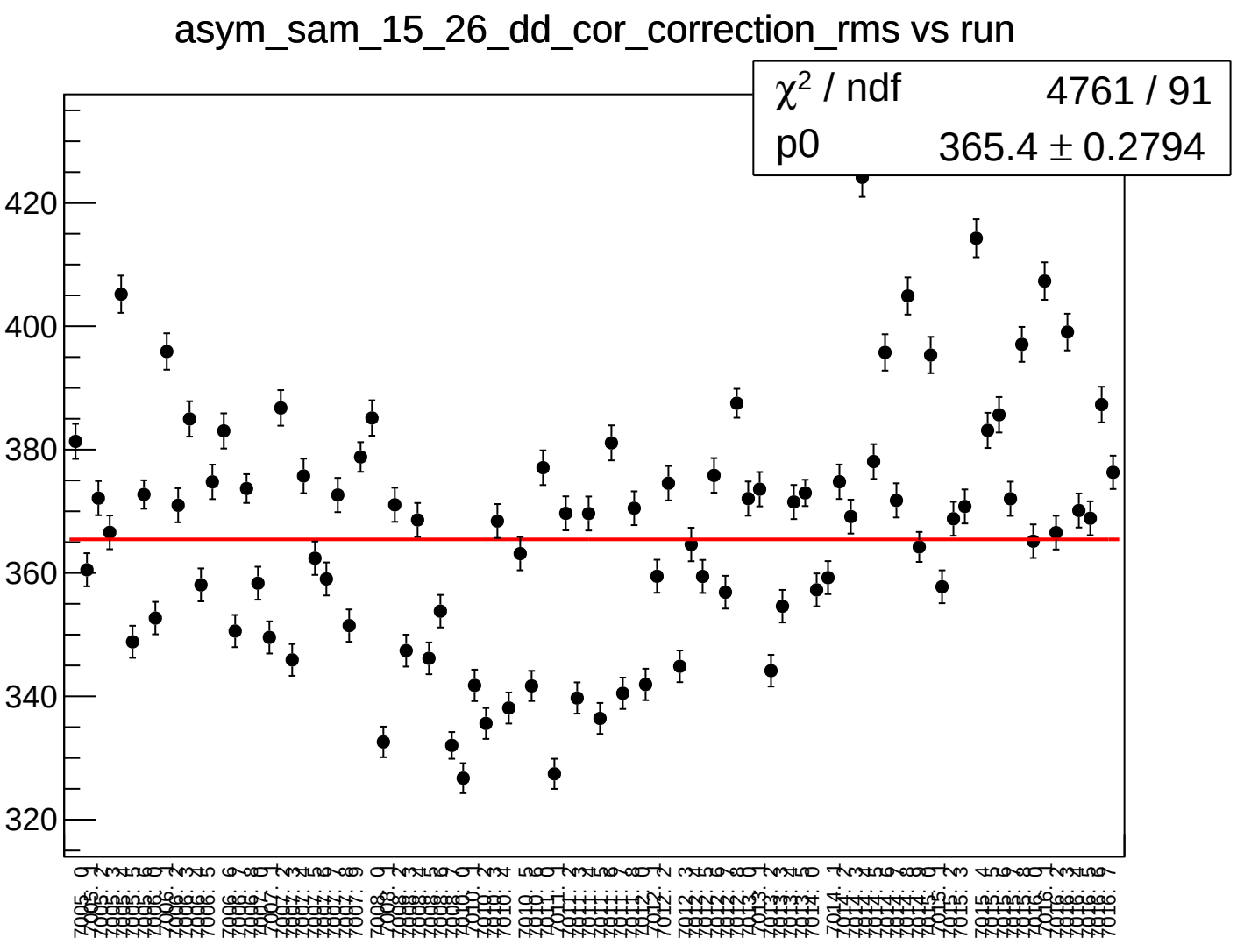

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 4762 / 91
p0 365.4 ± 0.2794
420
400
380
360
340
320

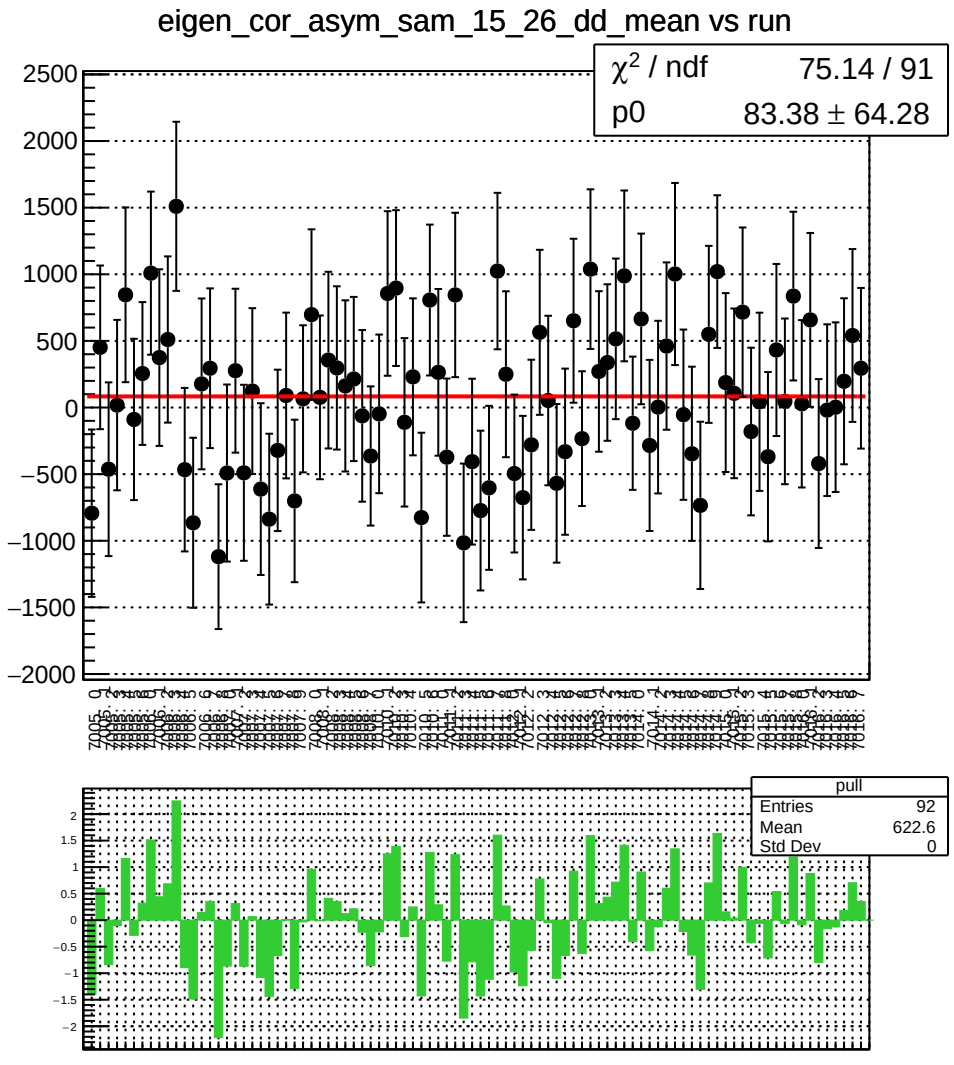

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.14 / 91
p0 83.38 ± 64.28
pull
Entries 92
Mean 622.6
Std Dev 0

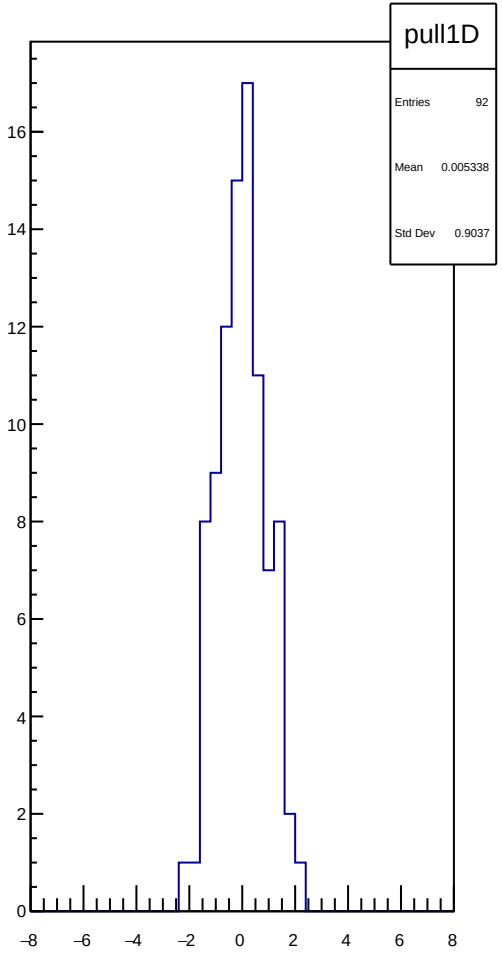

pull1D
Entries 92
Mean 0.005338
Std Dev 0.9037

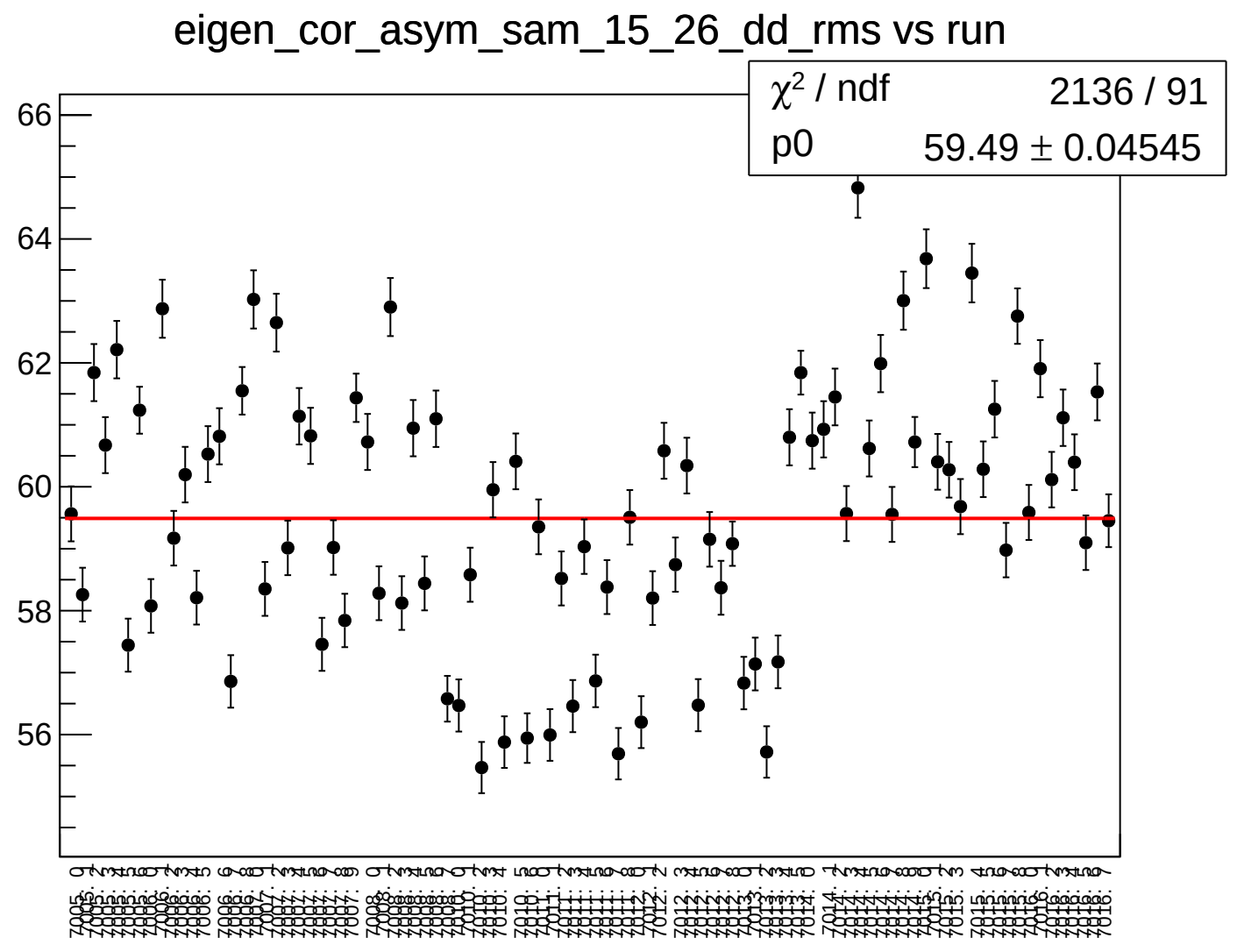

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2136 / 91
p0 59.49 ± 0.04545
66
64
62
60
58
56

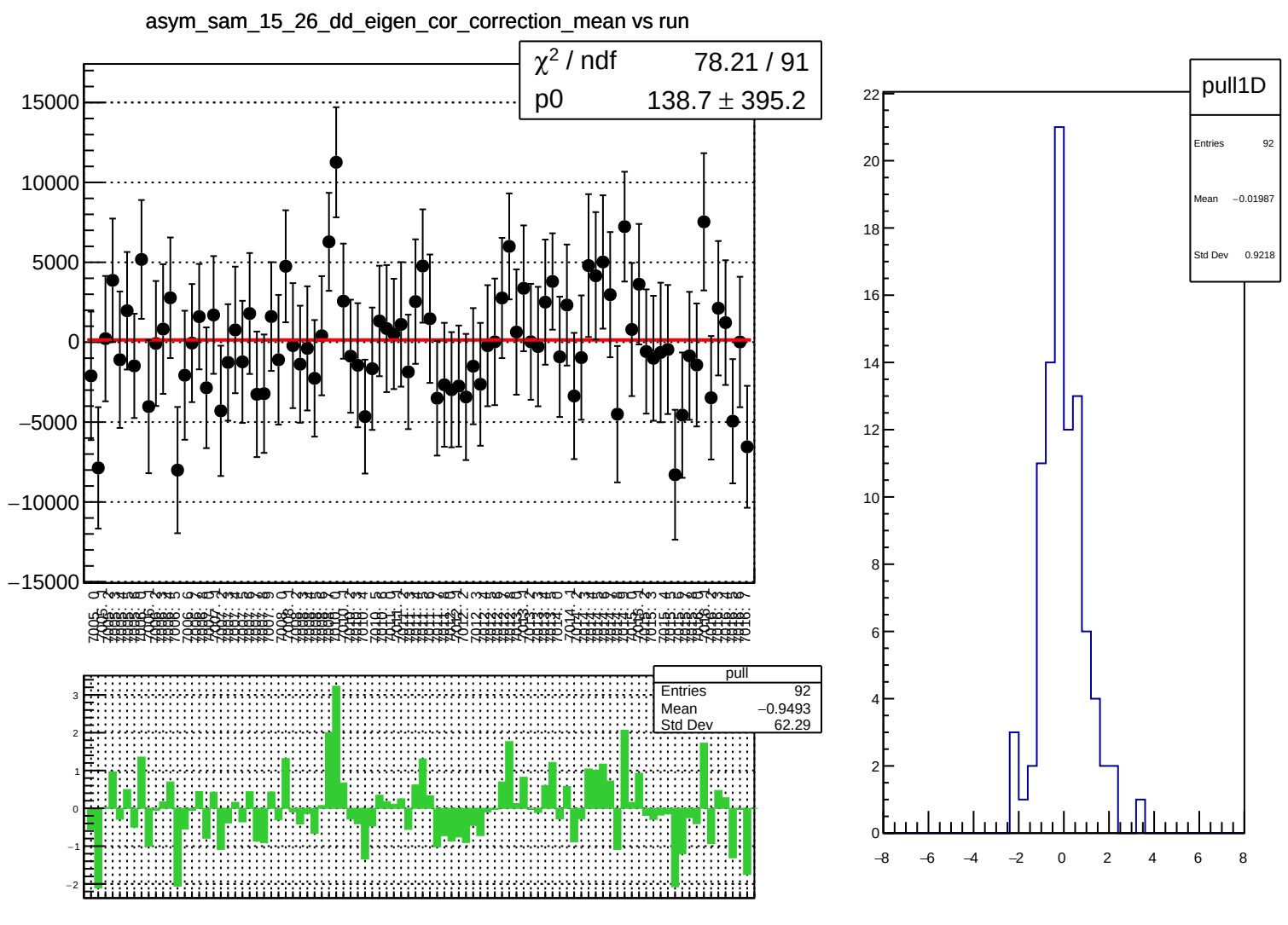

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 78.21 / 91
p0 138.7 ± 395.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −0.9493
Std Dev 62.29
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01987
Std Dev 0.9218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

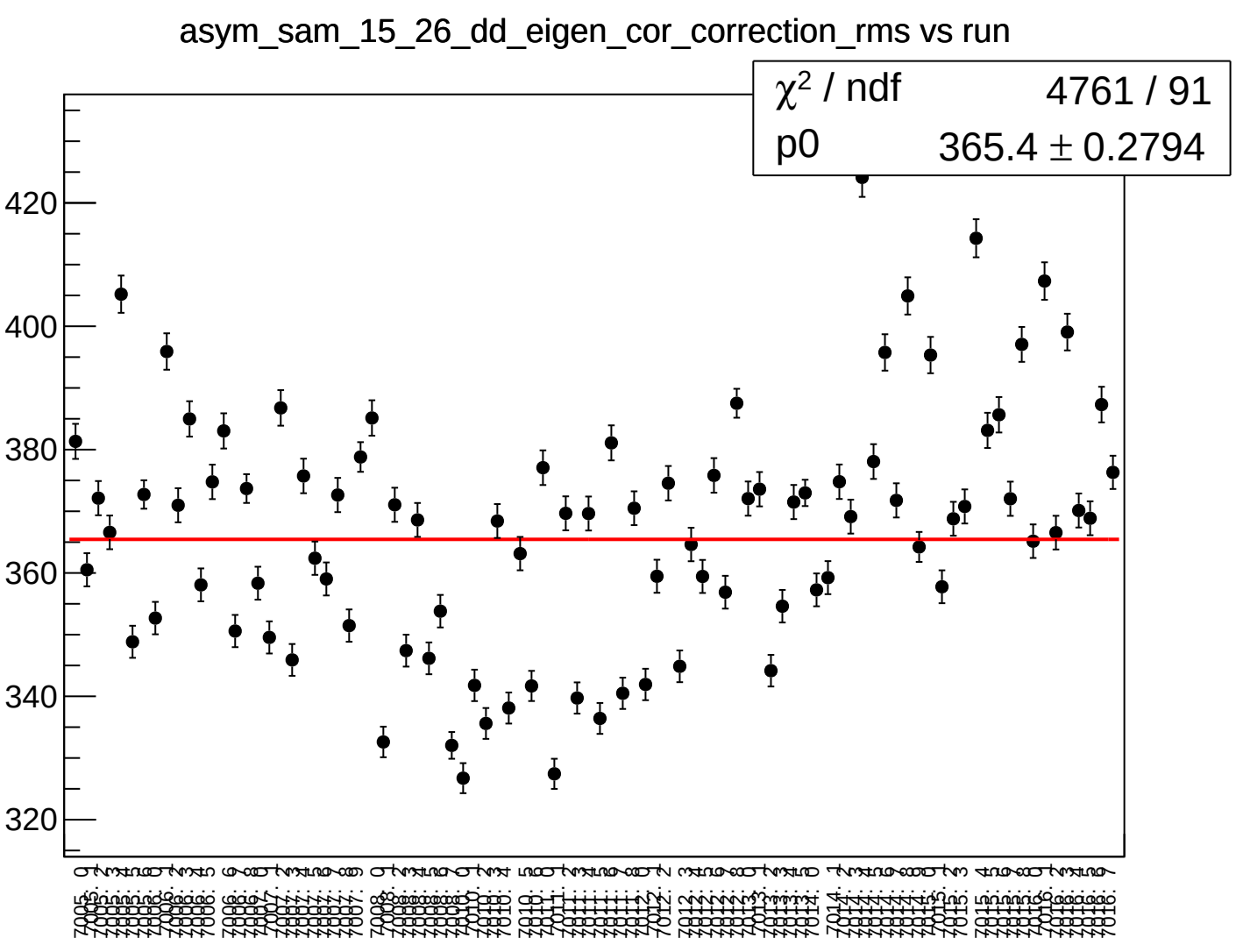

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 4761 / 91
p0 365.4 ± 0.2794
420
400
380
360
340
320

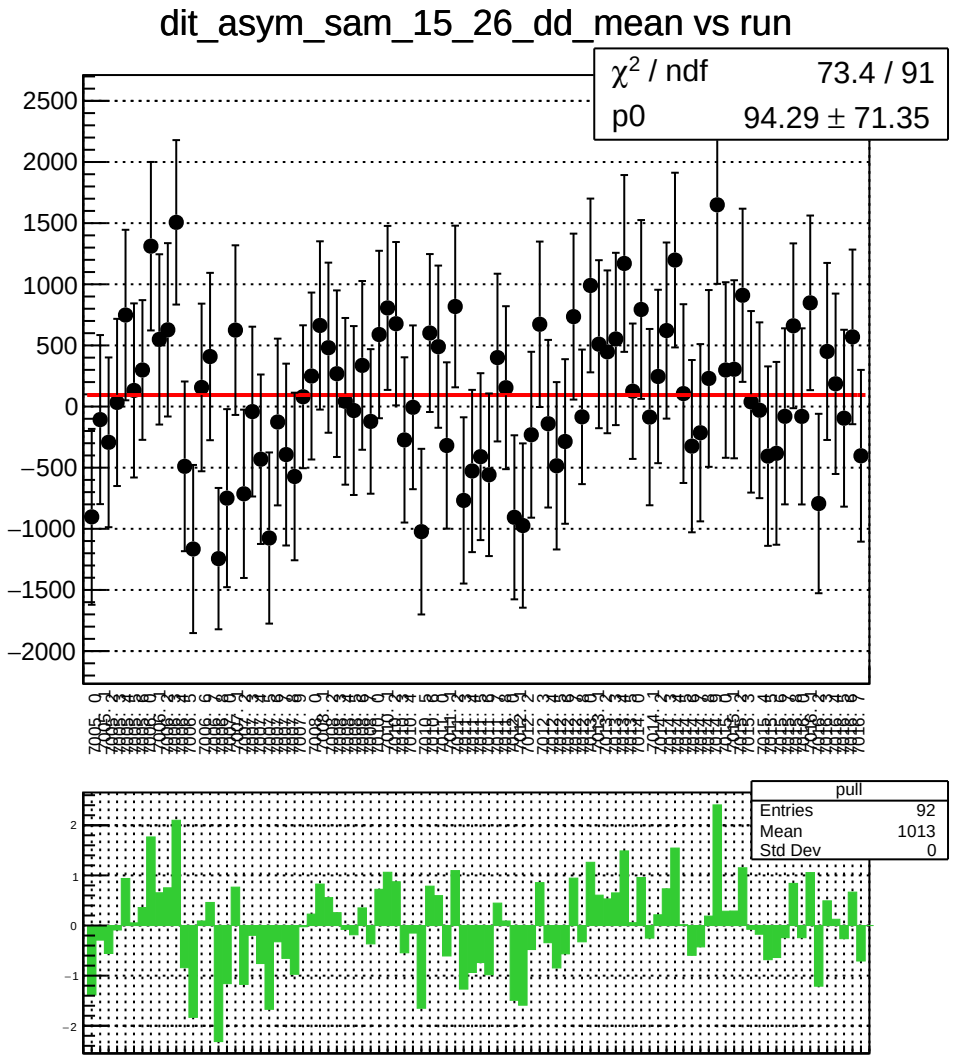

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 75.14 / 91
p0 83.38 ± 64.28
pull
Entries 92
Mean 622.6
Std Dev 0

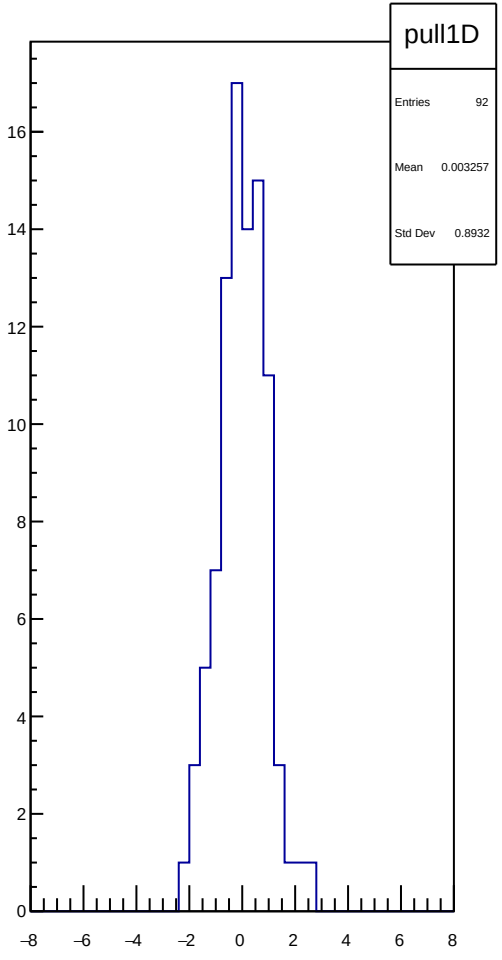

pull1D
Entries 92
Mean 0.005338
Std Dev 0.9037

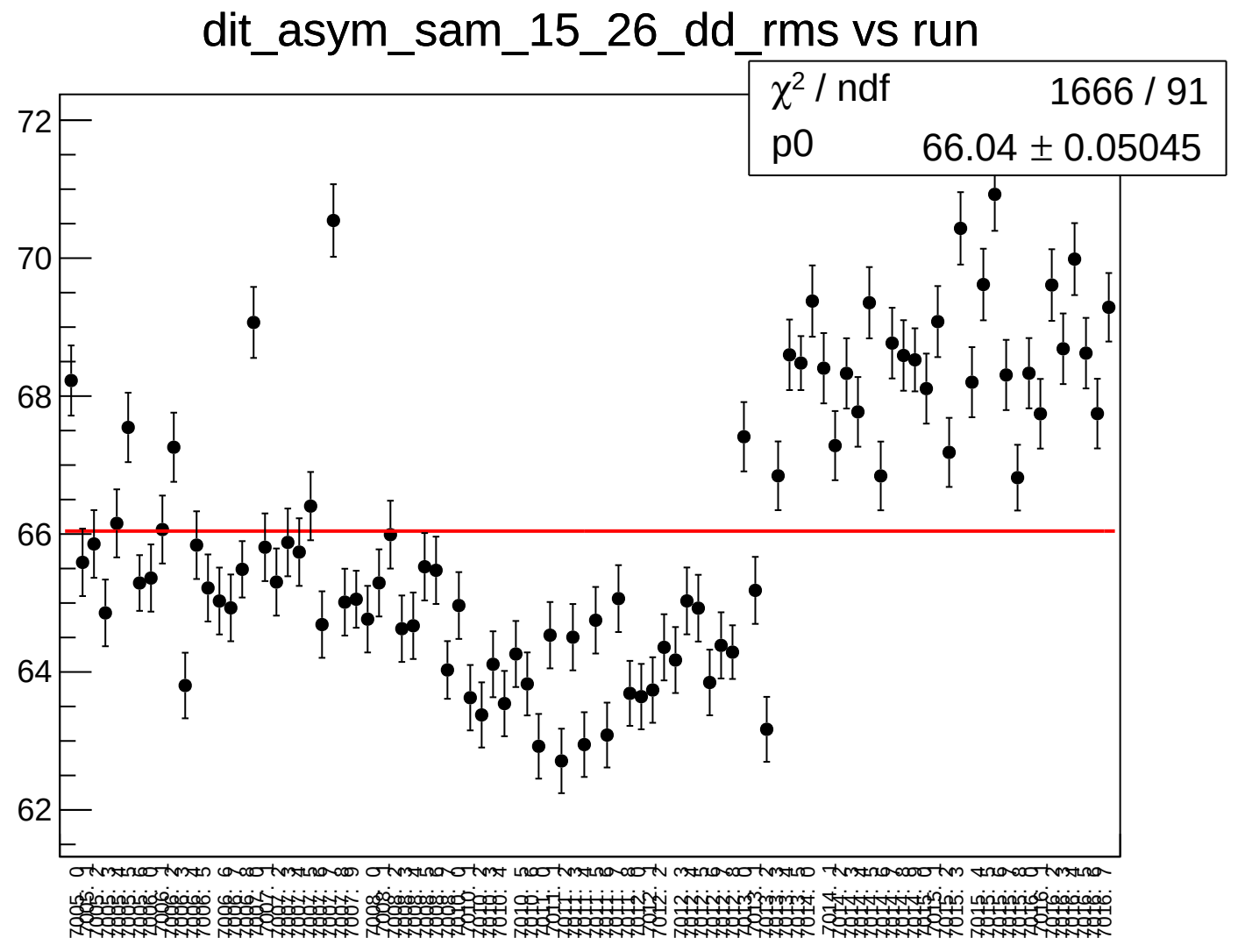

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2136 / 91
p0 59.49 ± 0.04545
66
64
62
60
58
56

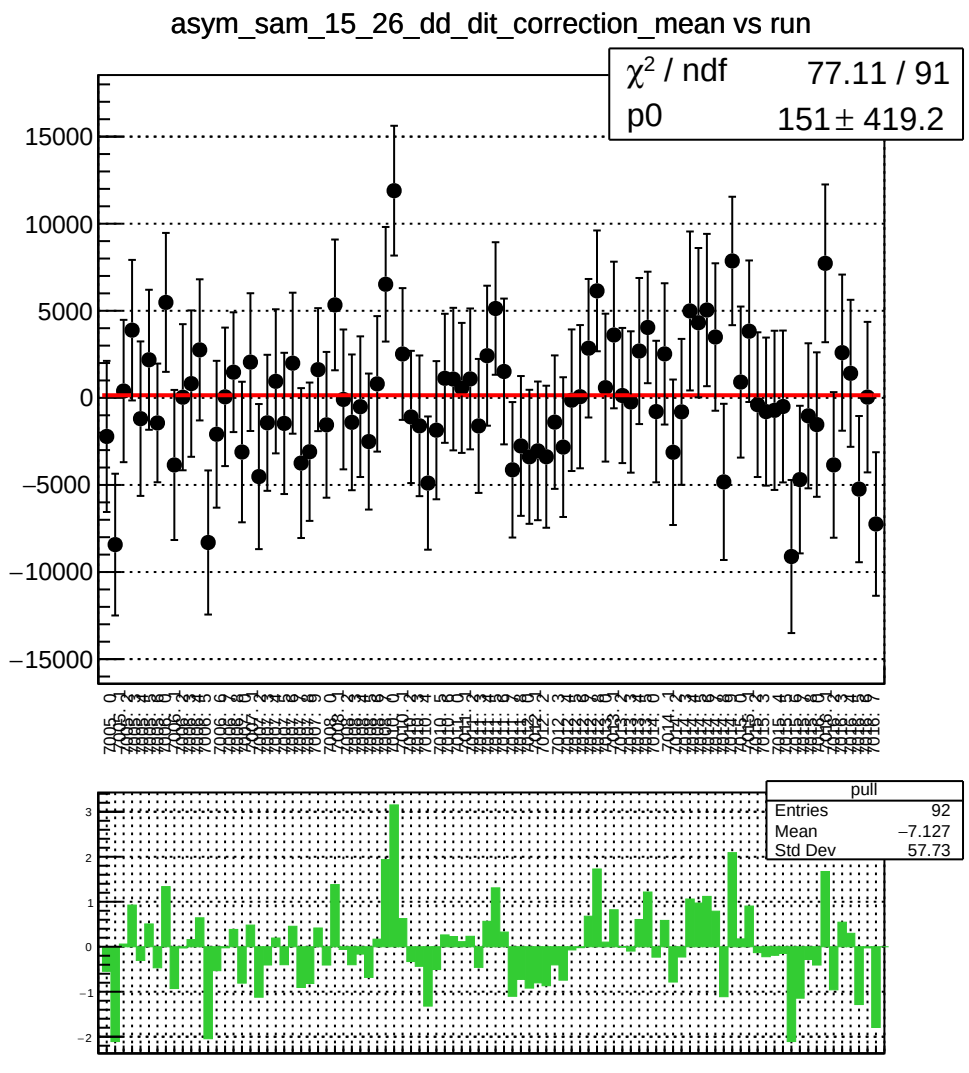

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.21 / 91
p0 138.7 ± 395.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −0.9493
Std Dev 62.29
3
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01987
Std Dev 0.9218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

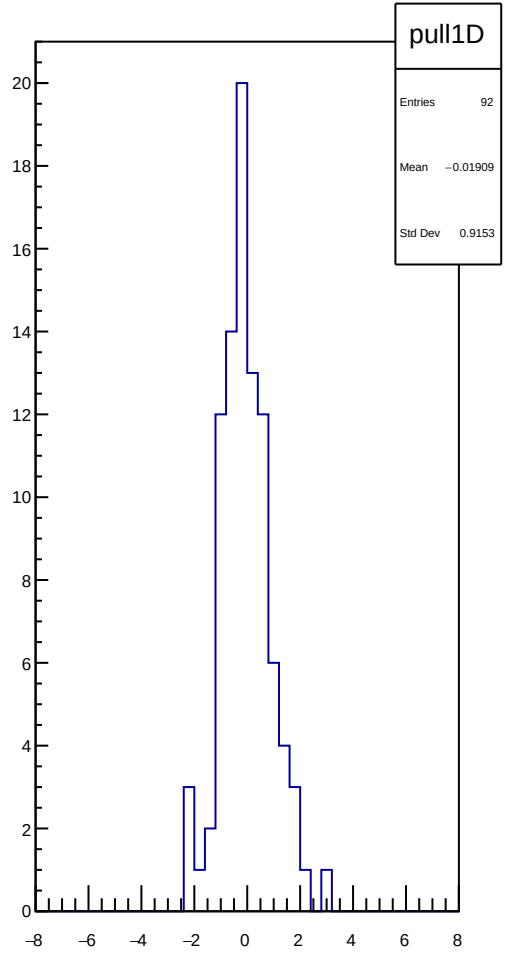

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4761 / 91
p0 365.4 ± 0.2794
420
400
380
360
340
320

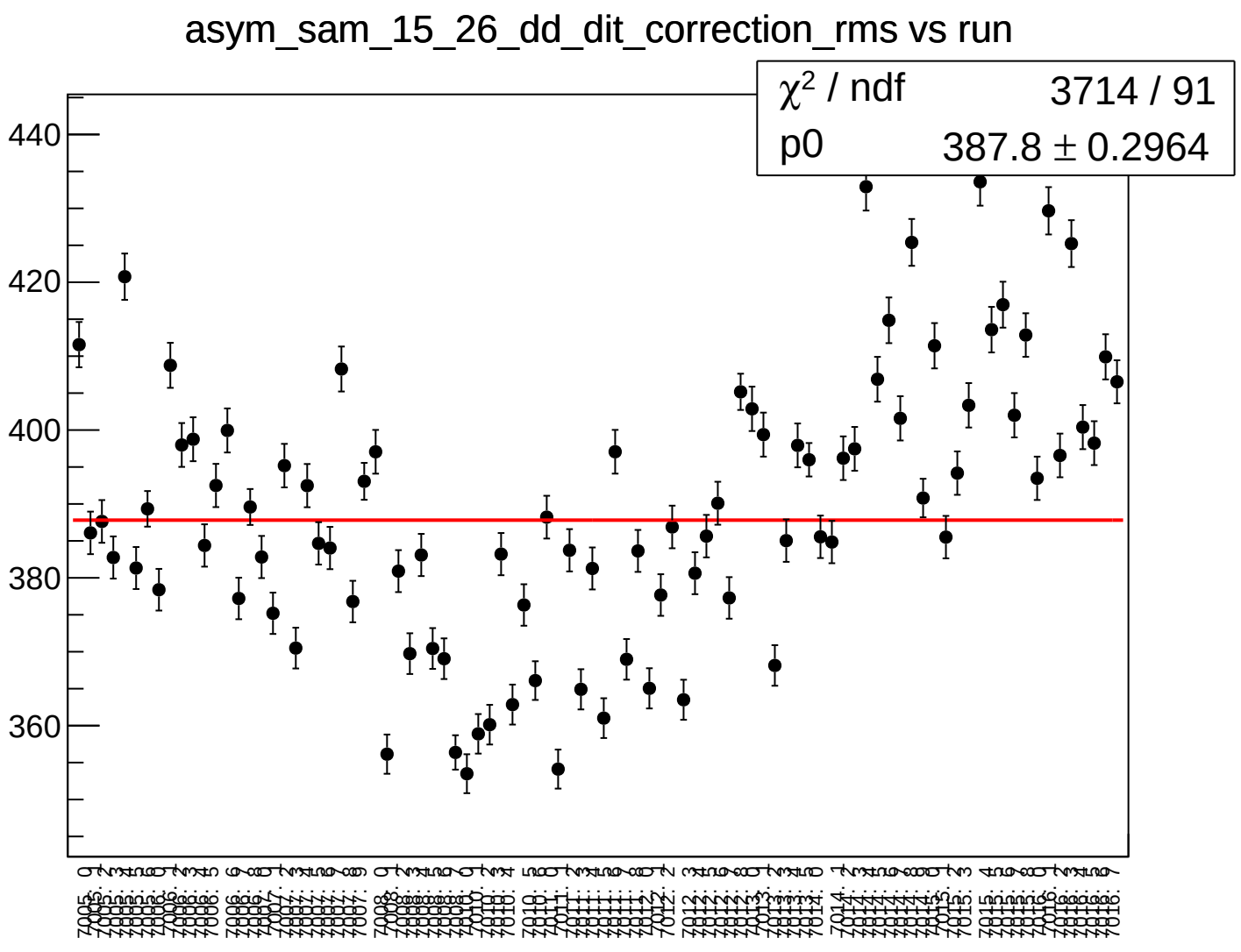

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 73.4 / 91
p0 94.29 ± 71.35
pull
Entries 92
Mean 1013
Std Dev 0

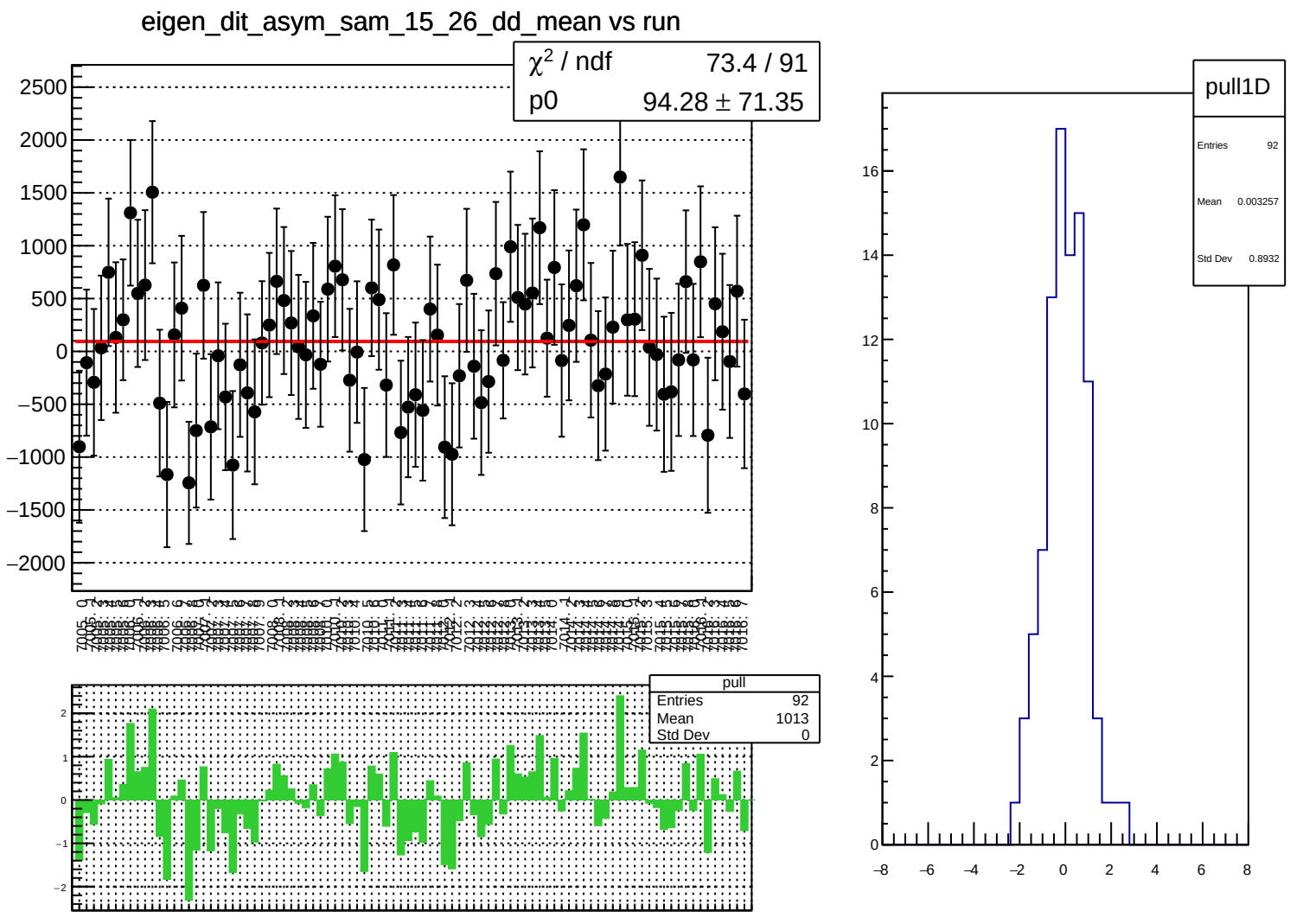

pull1D
Entries 92
Mean 0.003257
Std Dev 0.8932

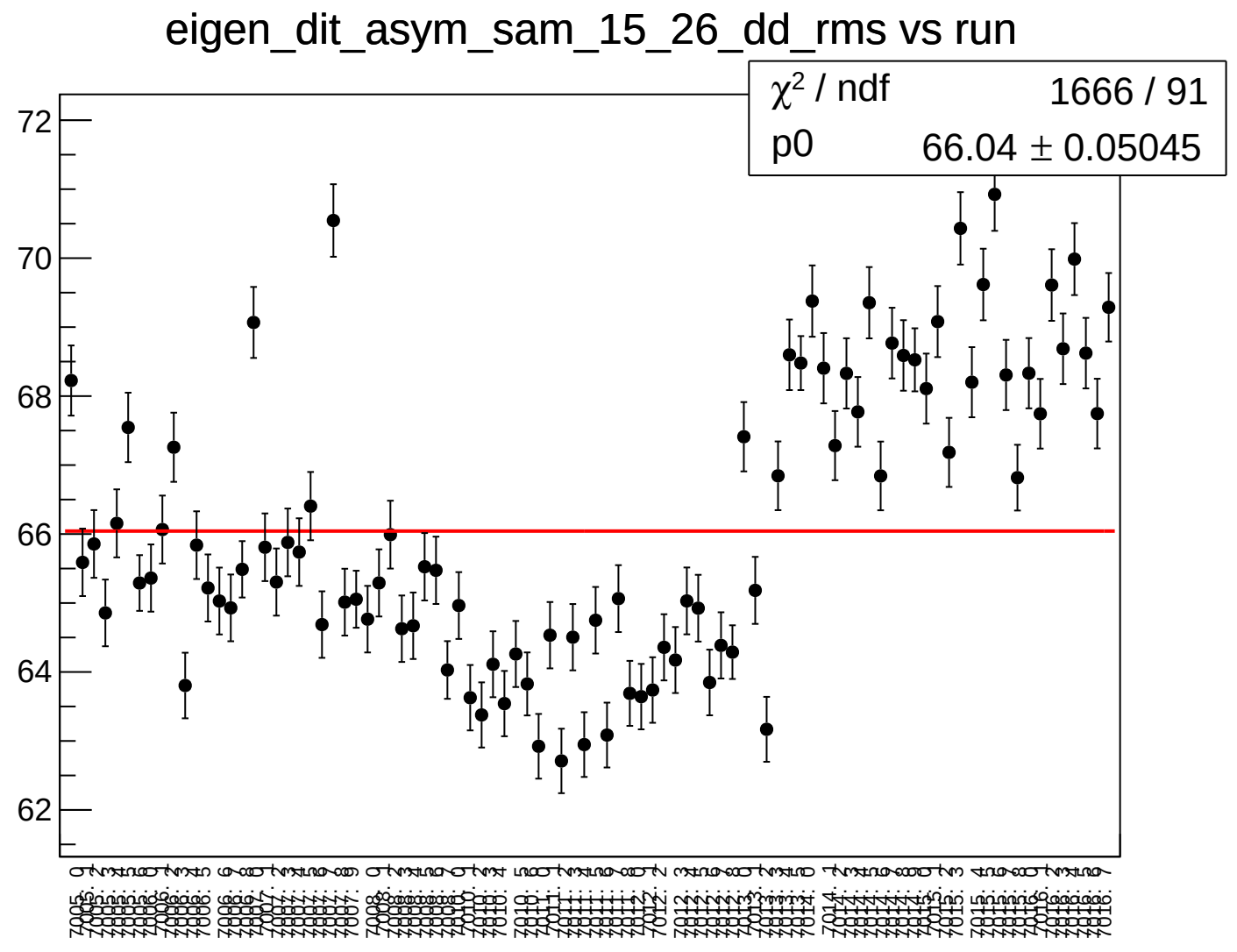

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1666 / 91
p0 66.04 ± 0.05045
72
70
68
66
64
62

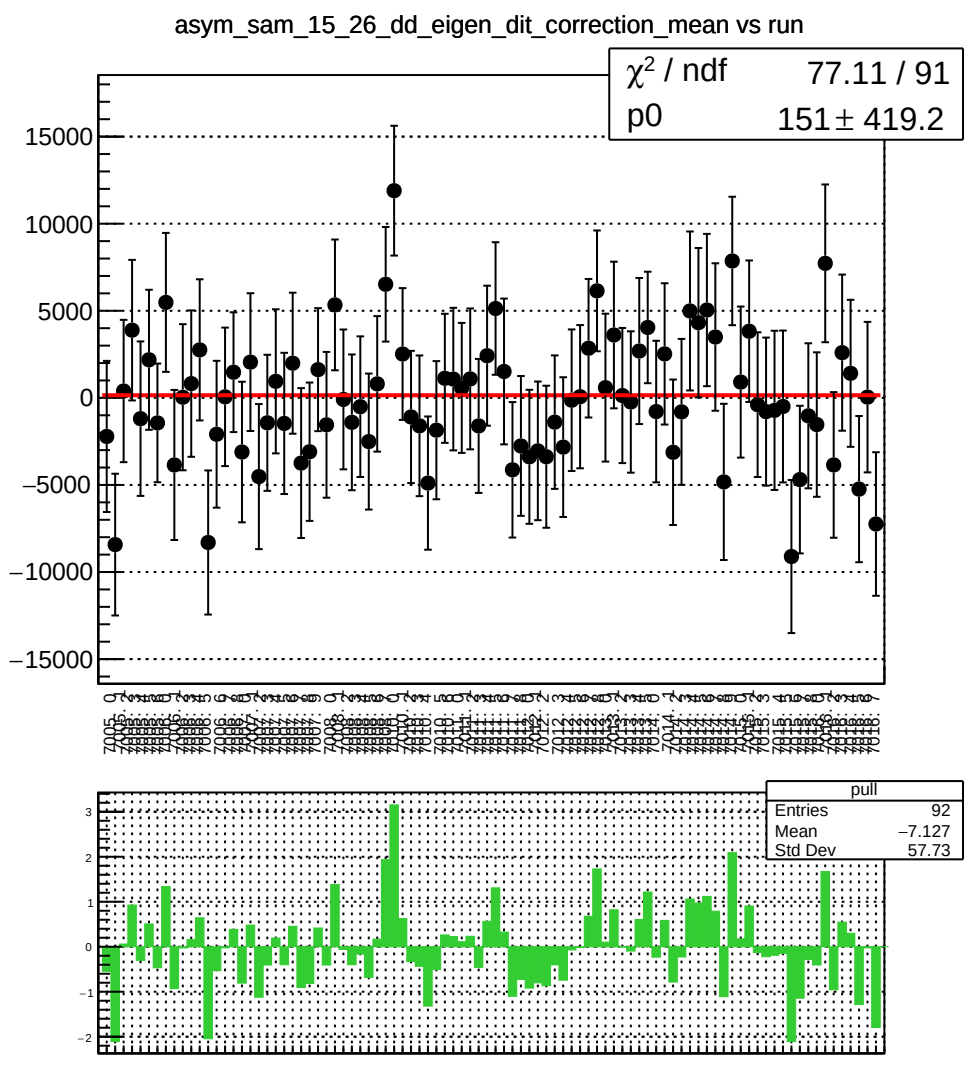

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 77.11 / 91
p0 151 ± 419.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −7.127
Std Dev 57.73
3
2
1
0
−1
−2

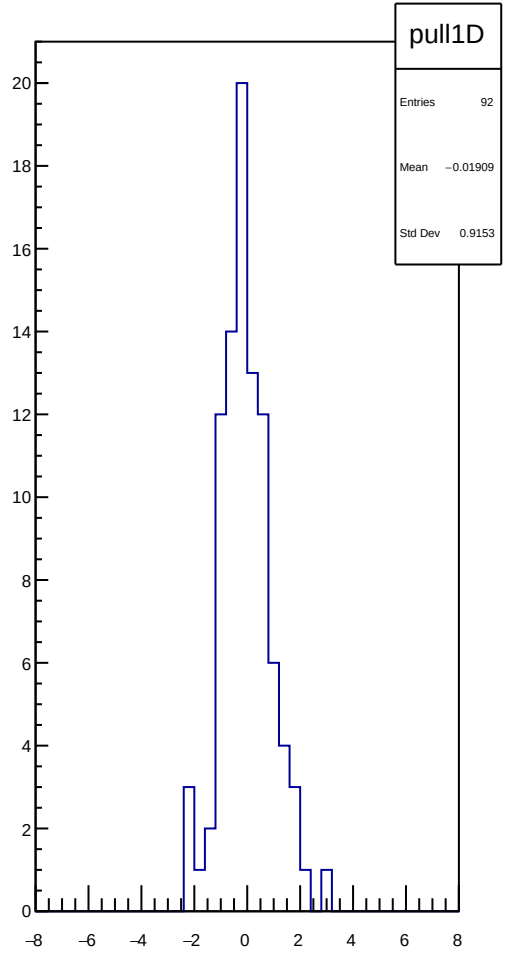

pull1D
Entries 92
Mean −0.01909
Std Dev 0.9153
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

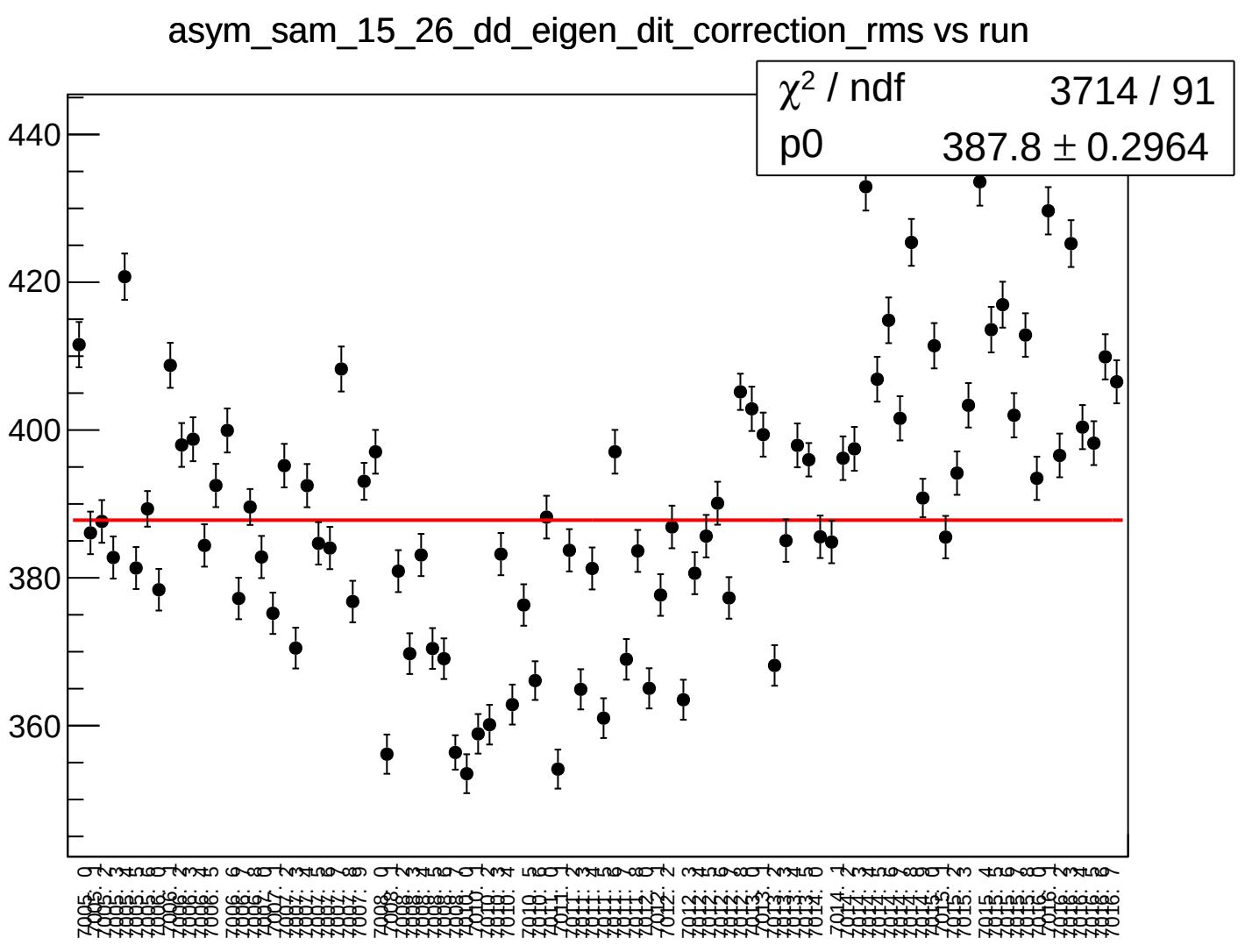

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 3714 / 91
p0 387.8 ± 0.2964
440
420
400
380
360

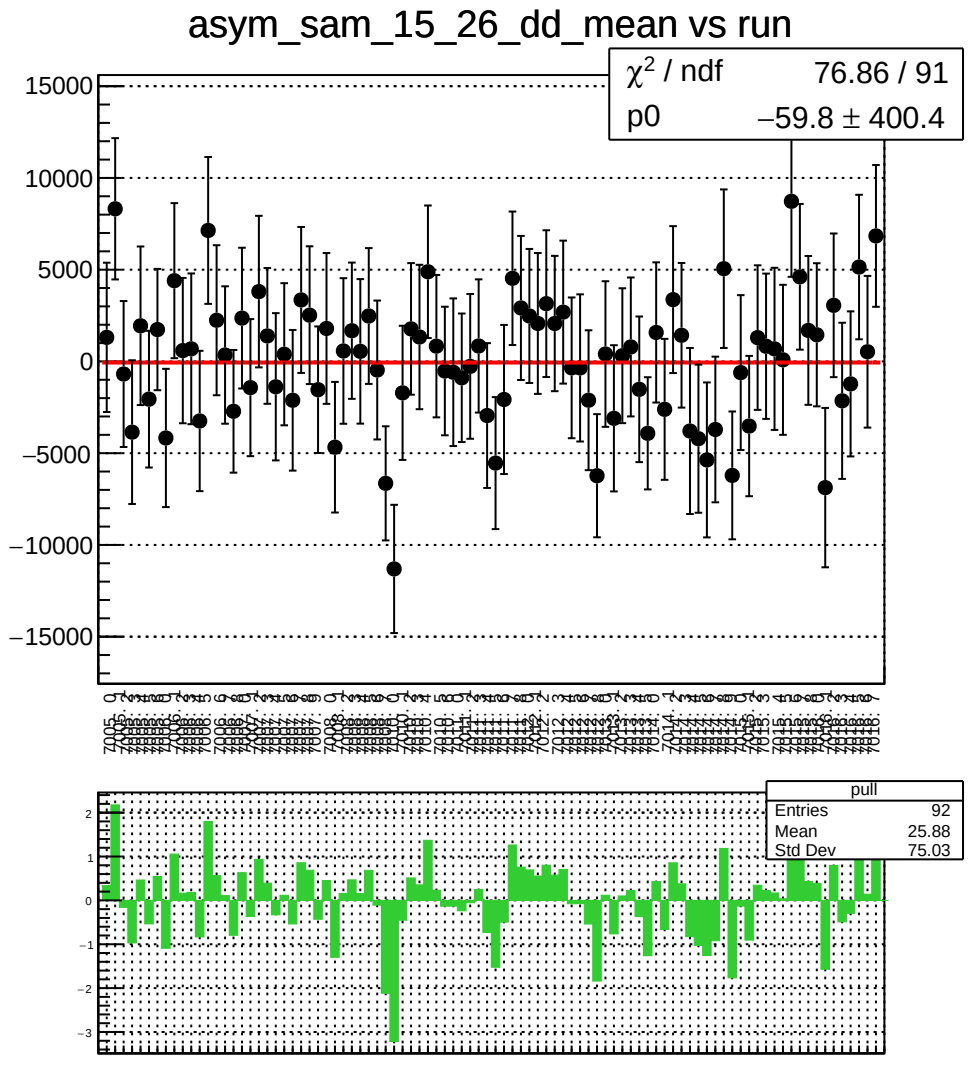

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 73.4 / 91
p0 94.28 ± 71.35
pull
Entries 92
Mean 1013
Std Dev 0
pull1D
Entries 92
Mean 0.003257
Std Dev 0.8932

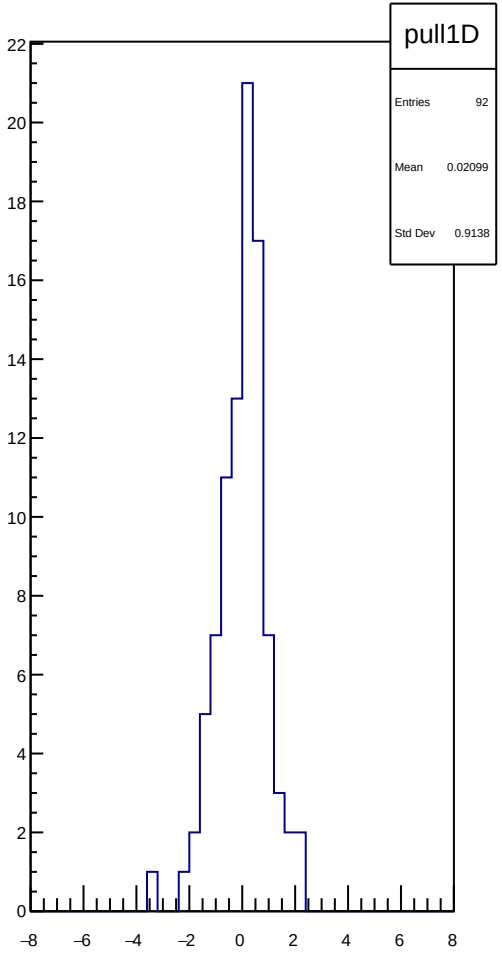

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1666 / 91
p0 66.04 ± 0.05045
72
70
68
66
64
62

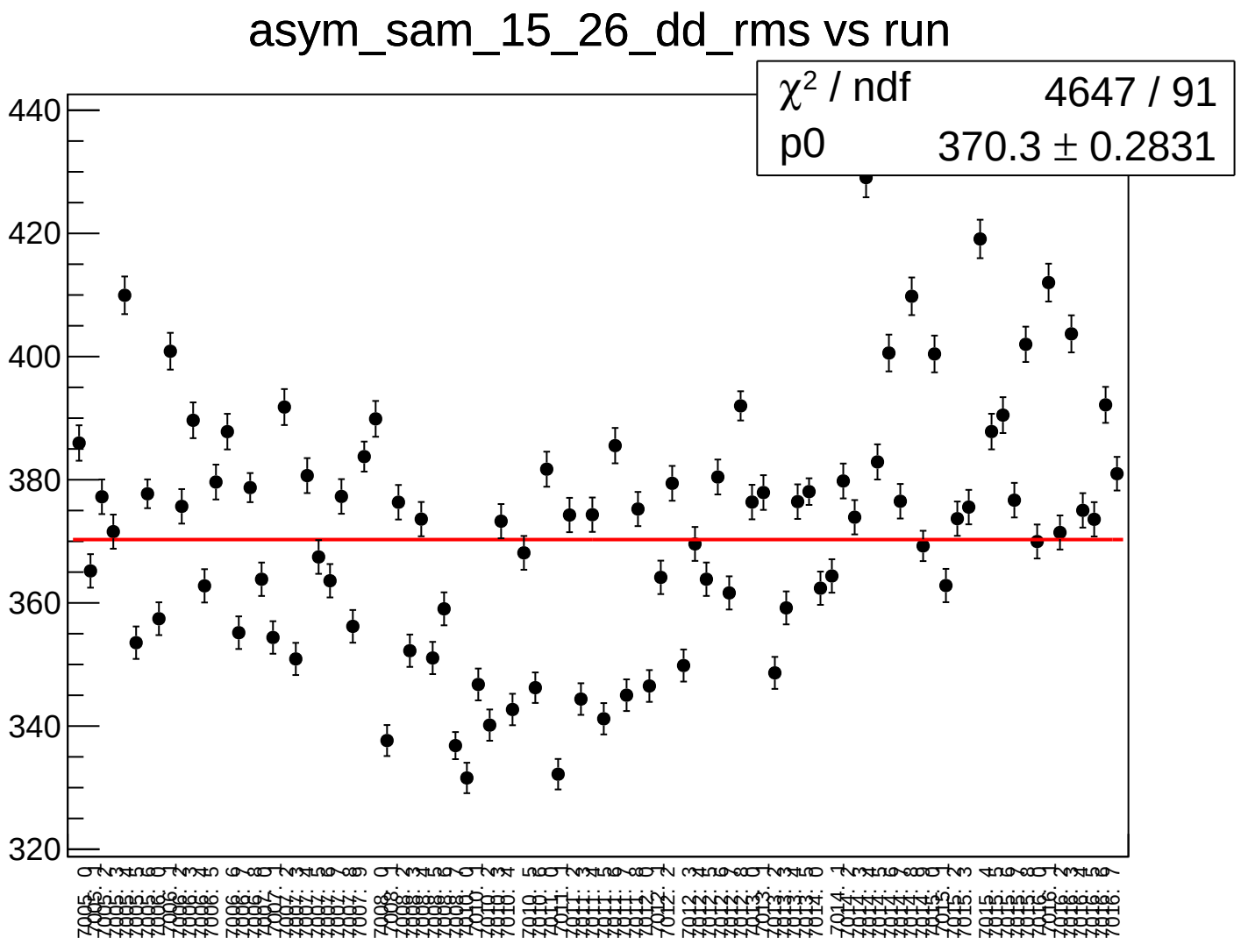

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.11 / 91
p0 151 ± 419.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −7.127
Std Dev 57.73
3
2
1
0
−1
−2

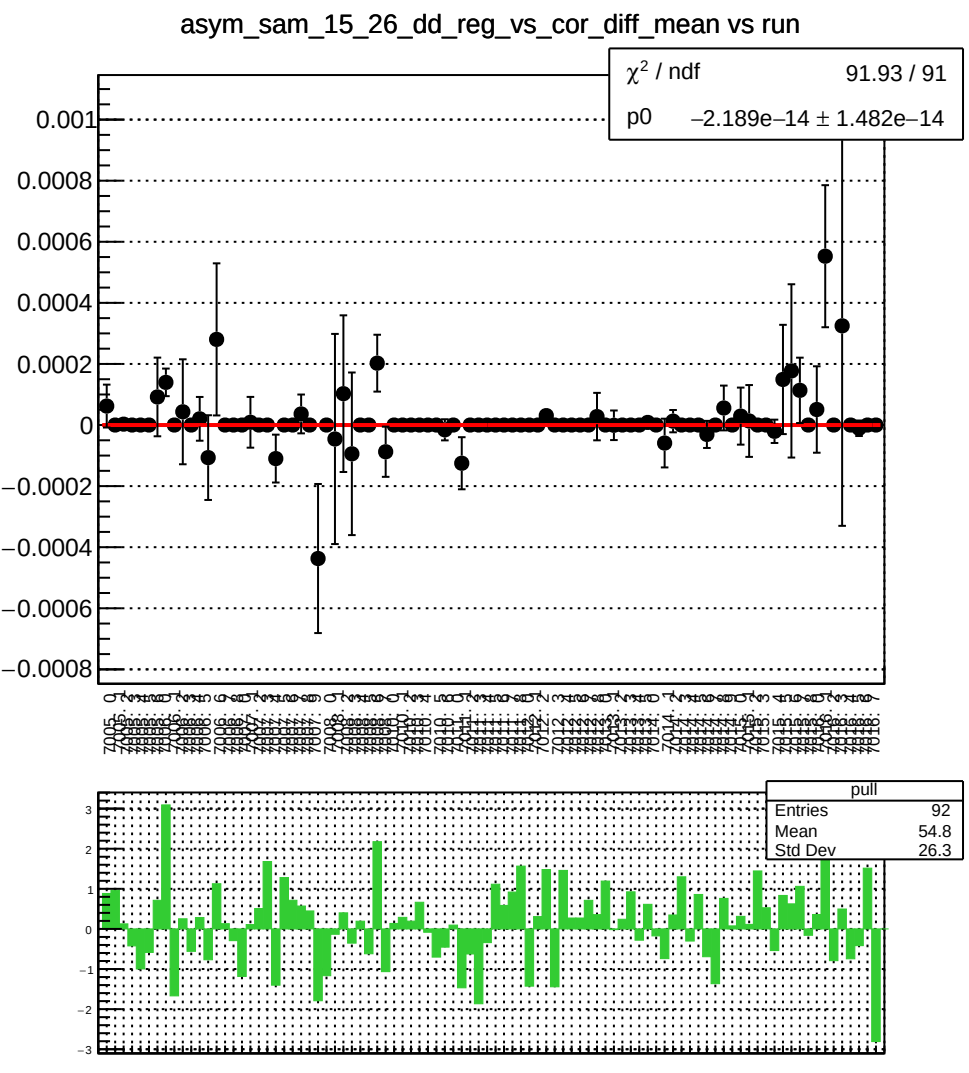

pull1D
Entries 92
Mean −0.01909
Std Dev 0.9153
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

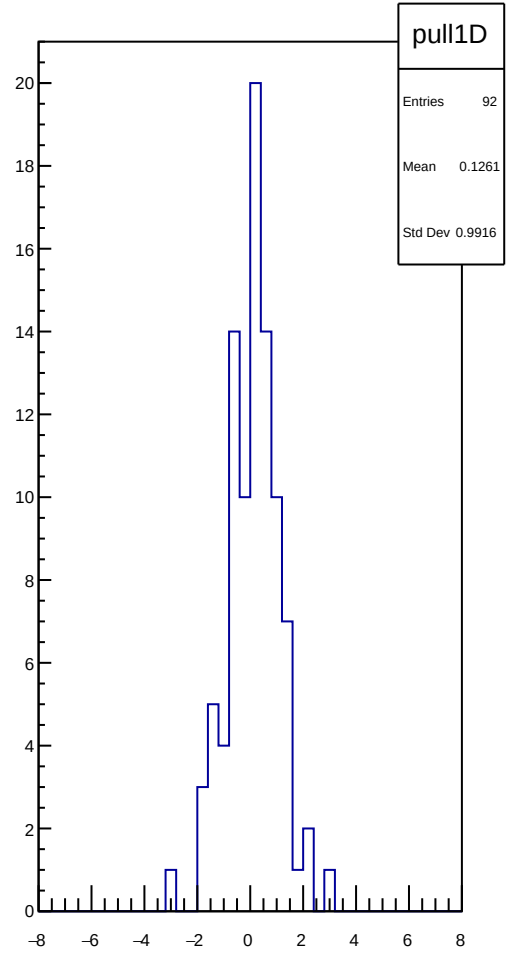

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3714 / 91
p0 387.8 ± 0.2964
440
420
400
380
360

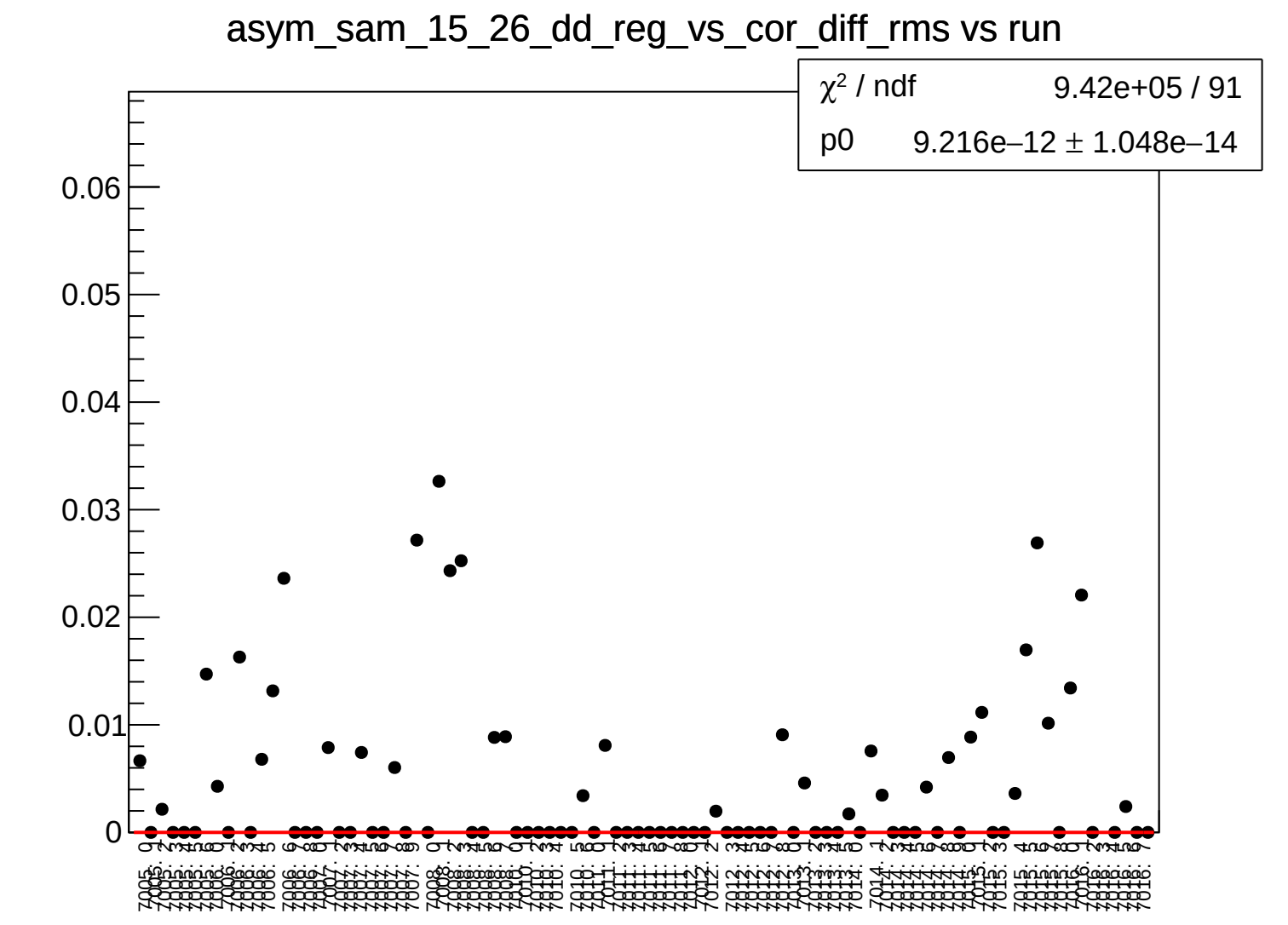

asym_sam_15_26_dd_mean vs run
χ² / ndf 76.86 / 91
p0 −59.8 ± 400.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 25.88
Std Dev 75.03
2
1
0
−1
−2
−3

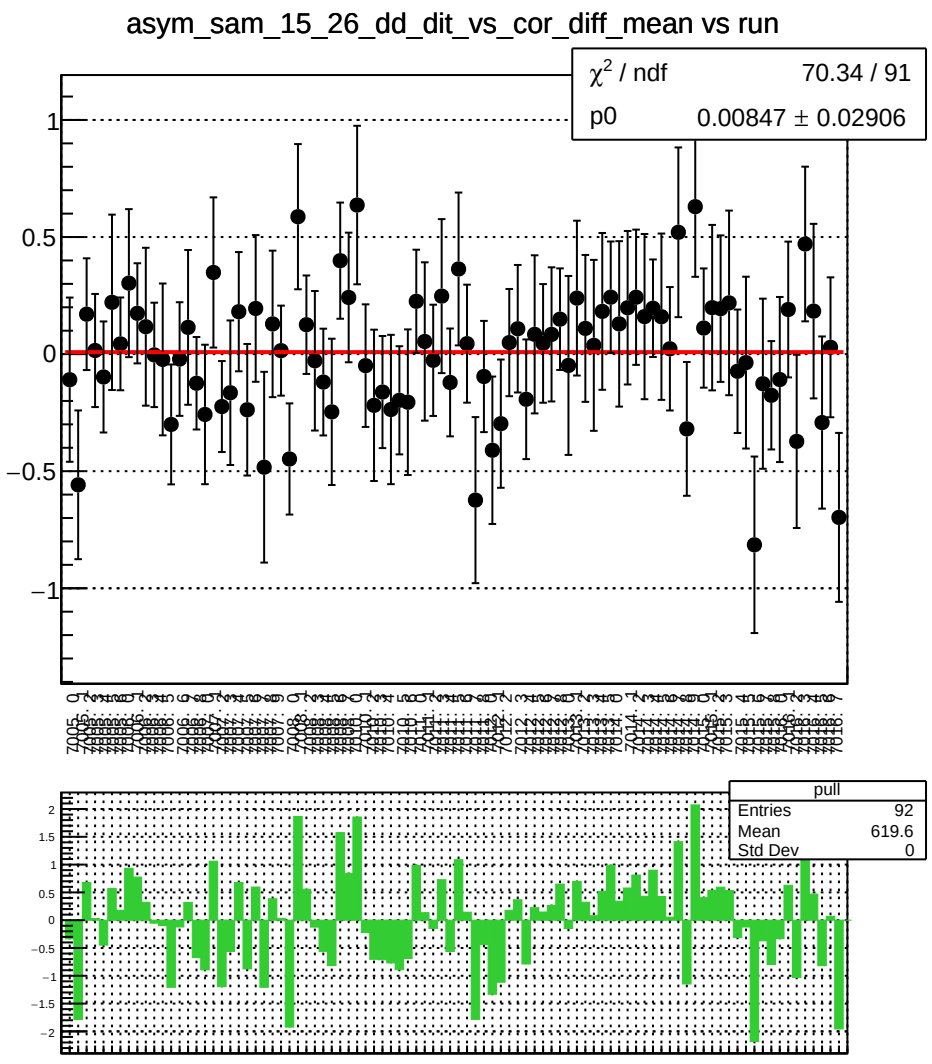

pull1D
Entries 92
Mean 0.02099
Std Dev 0.9138
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

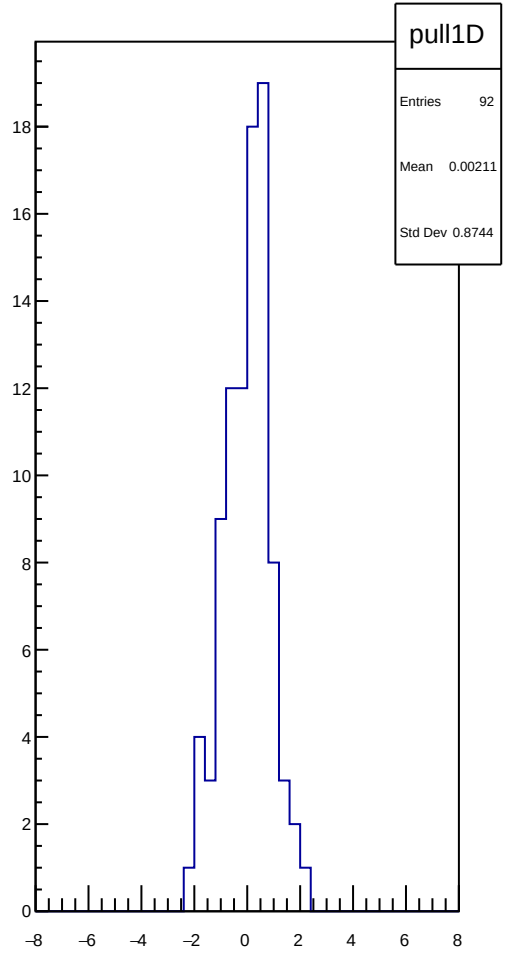

asym_sam_15_26_dd_rms vs run
χ² / ndf 4647 / 91
p0 370.3 ± 0.2831
440
420
400
380
360
340
320

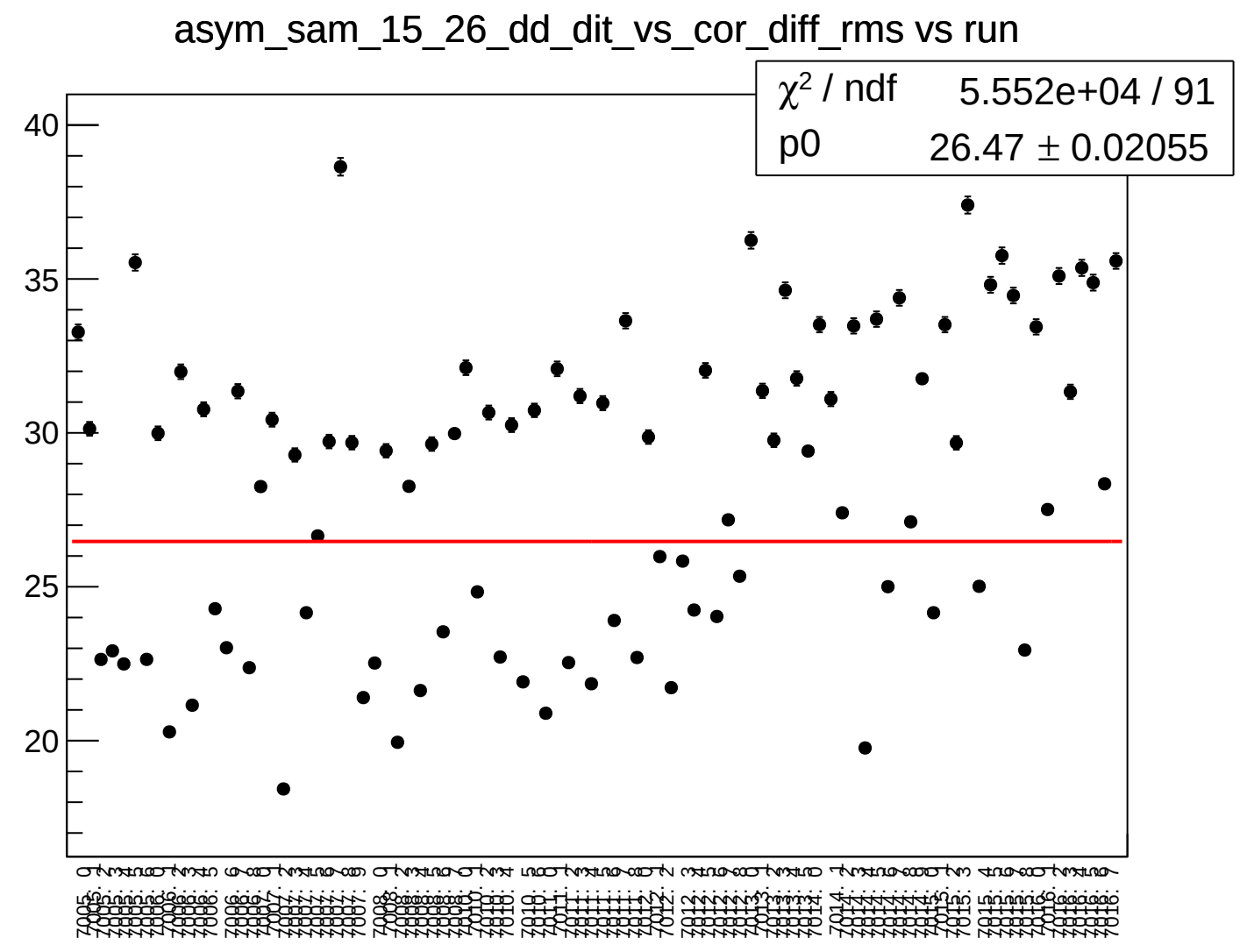

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.93 / 91
p0 −2.189e−14 ± 1.482e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 92
Mean 54.8
Std Dev 26.3
3
2
1
0
−1
−2
−3

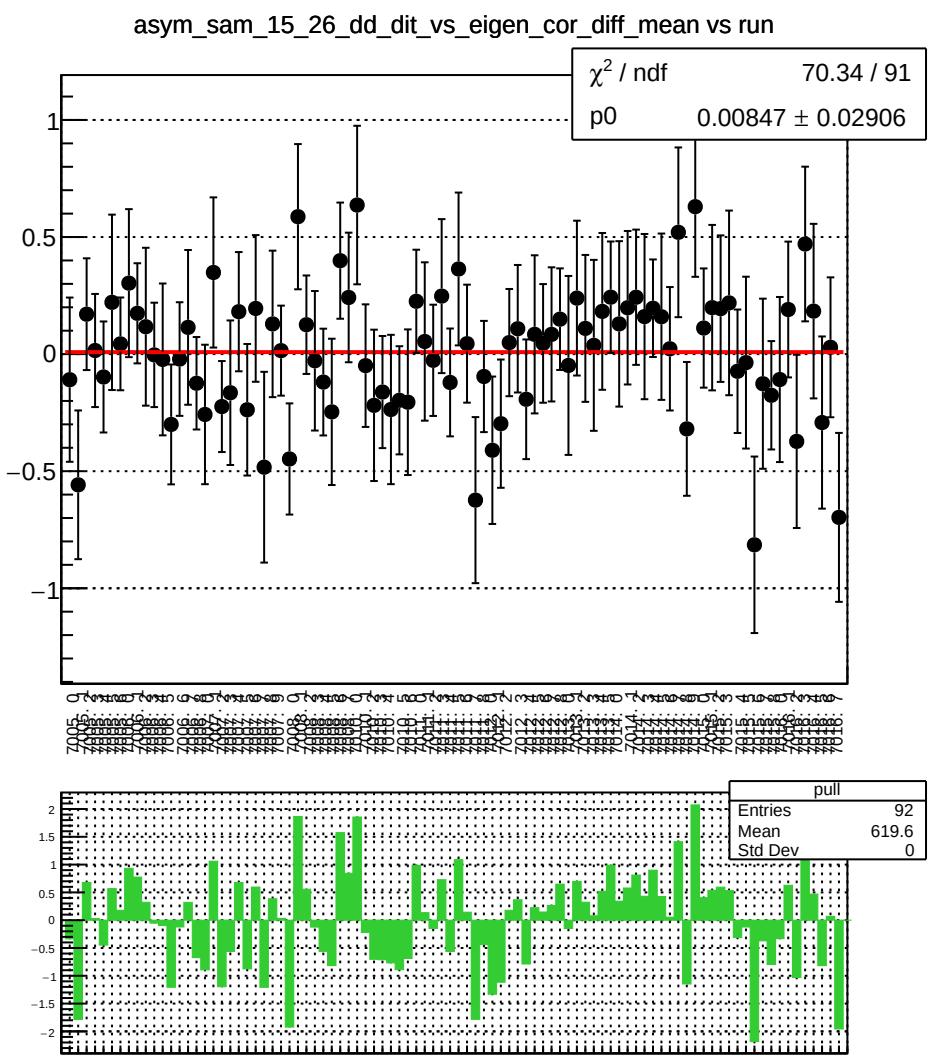

pull1D
Entries 92
Mean 0.1261
Std Dev 0.9916
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

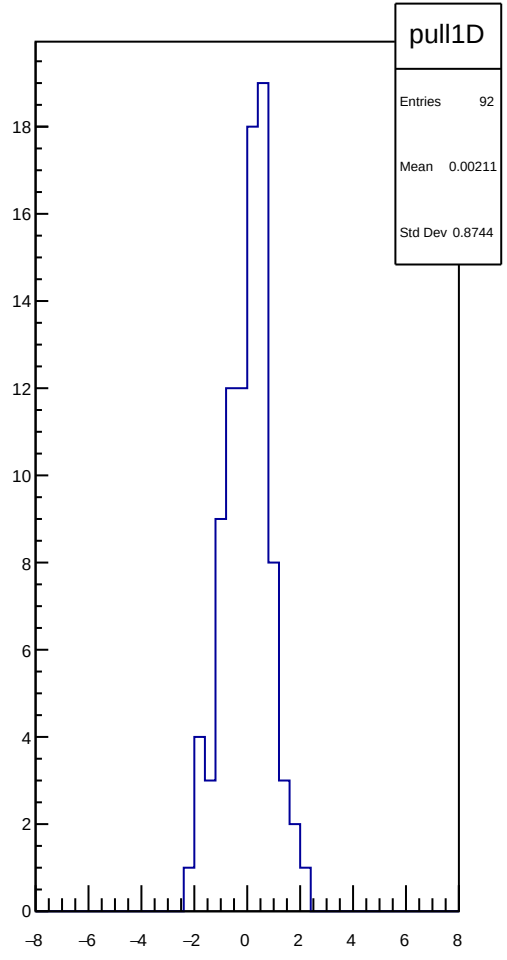

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.42e+05 / 91
p0 9.216e−12 ± 1.048e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

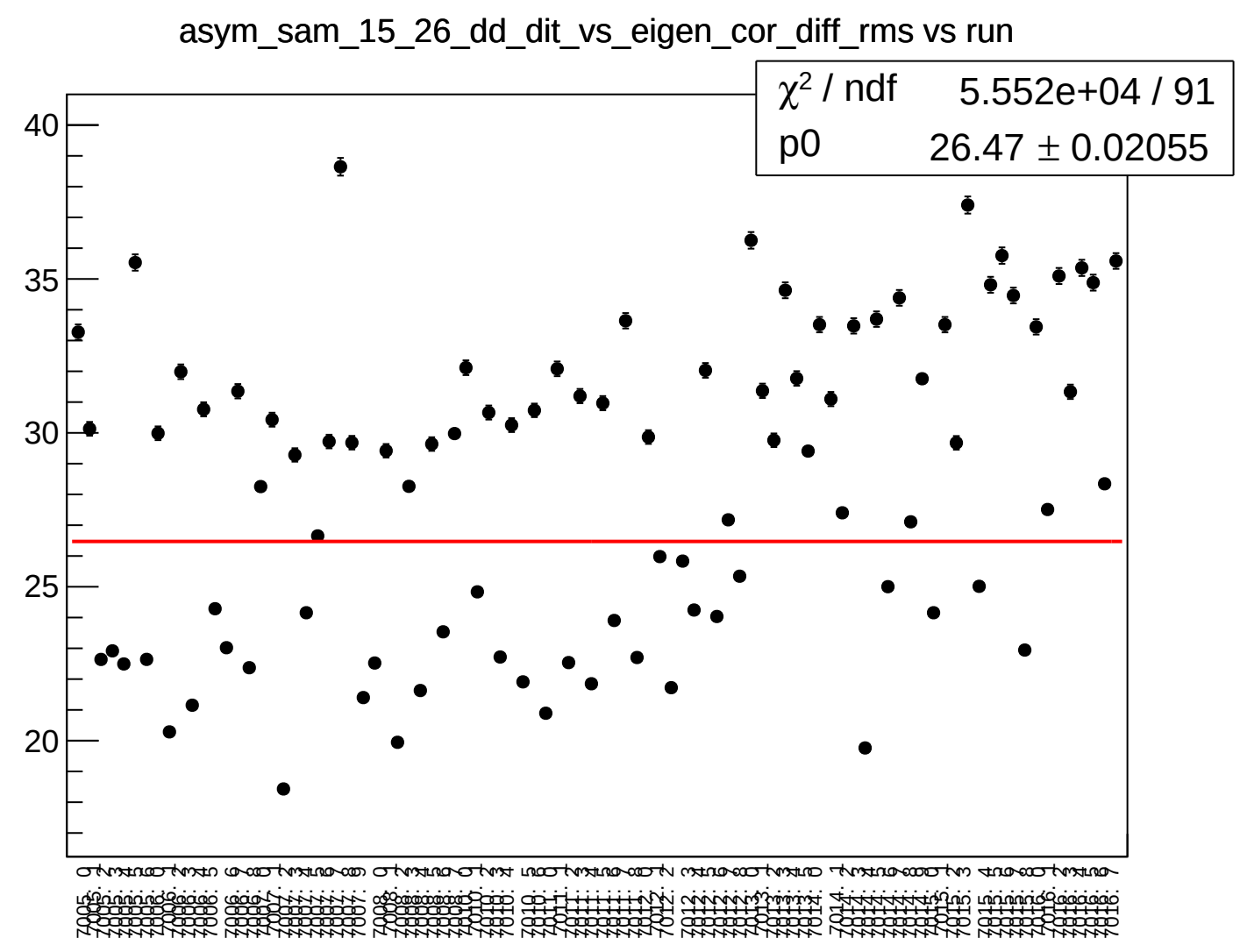

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.34 / 91
p0 0.00847 ± 0.02906
pull
Entries 92
Mean 619.6
Std Dev 0

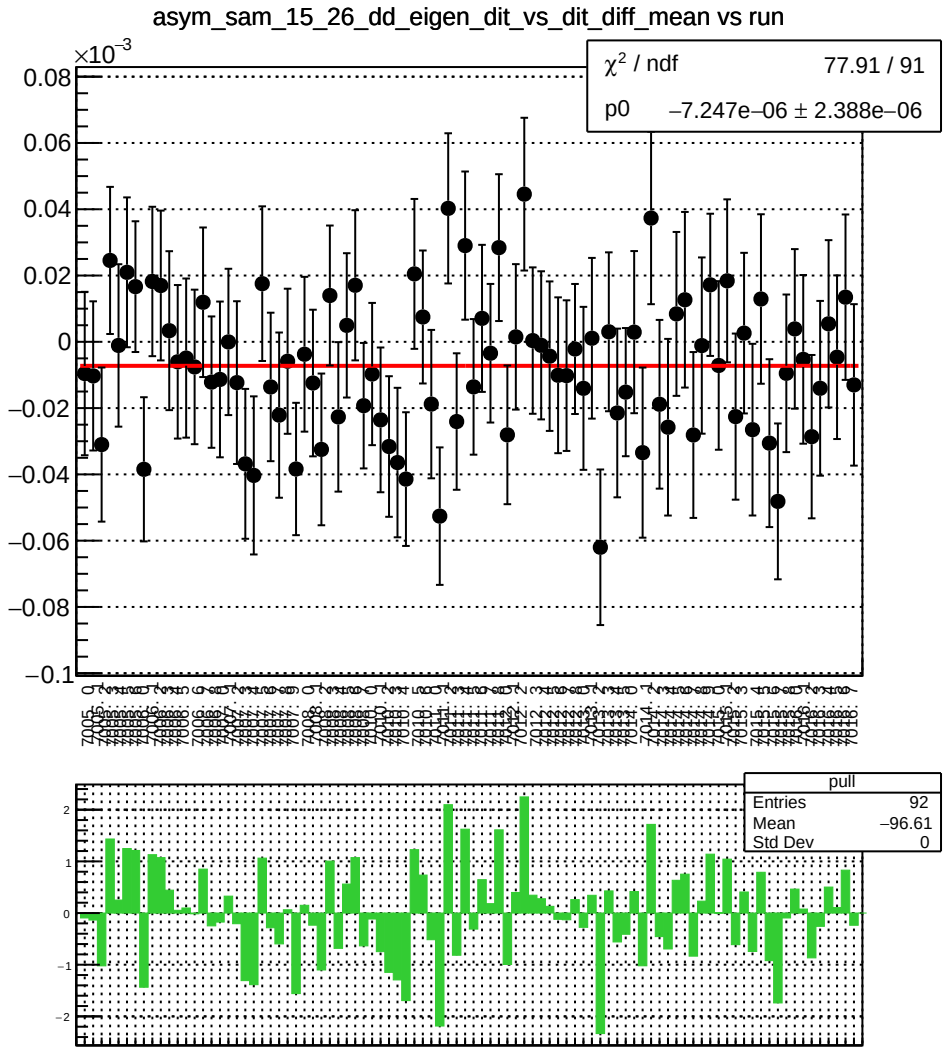

pull1D
Entries 92
Mean 0.00211
Std Dev 0.8744

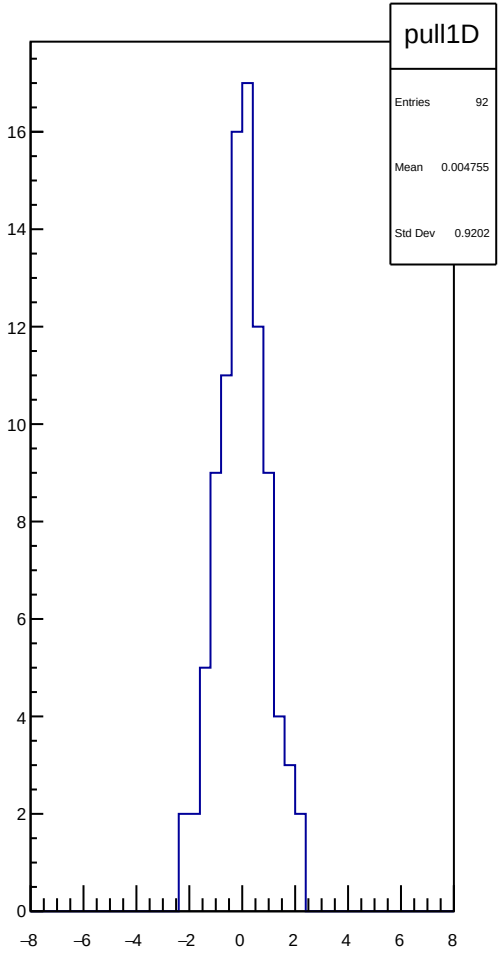

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.552e+04 / 91
p0 26.47 ± 0.02055
40
35
30
25
20

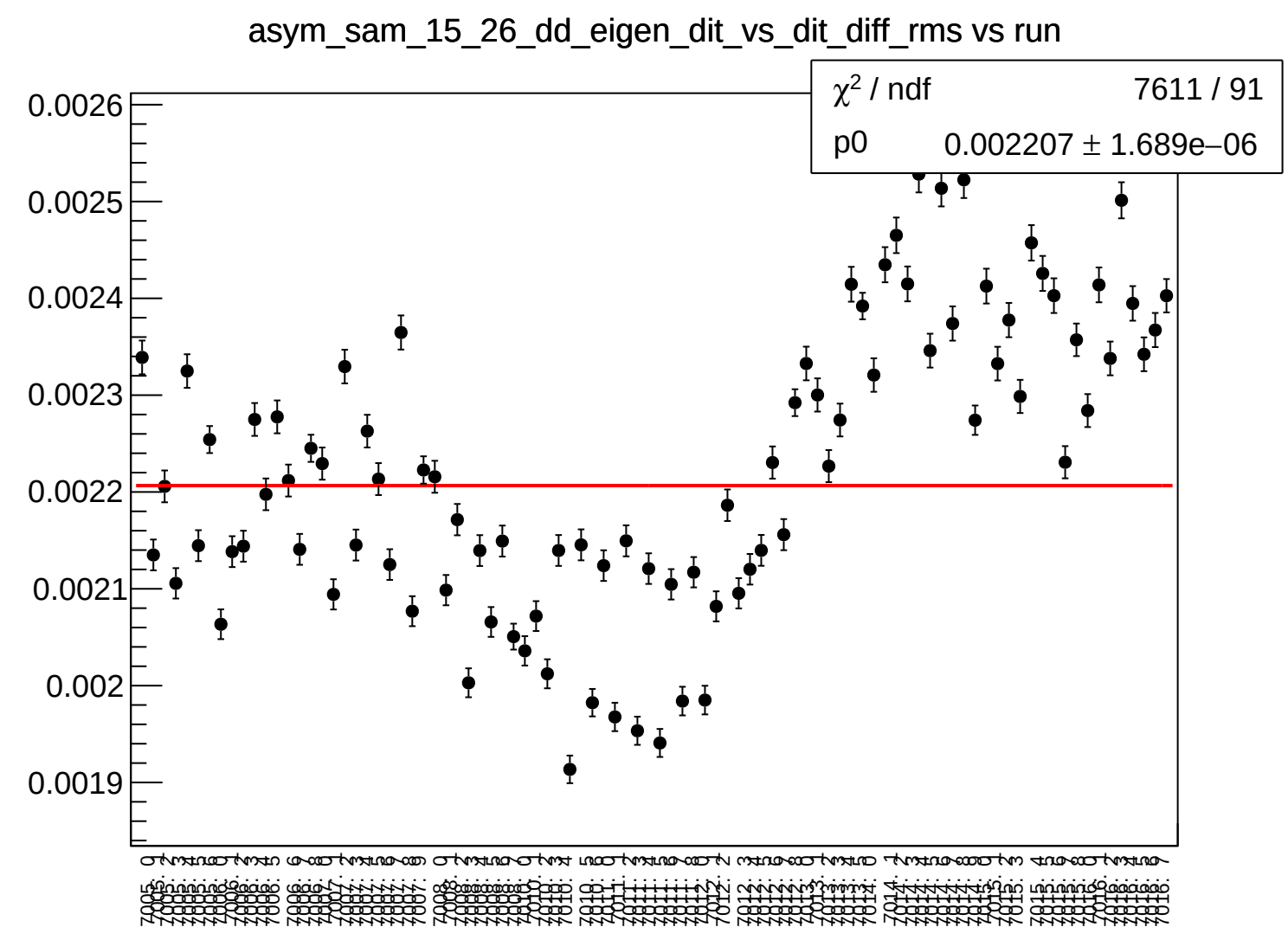

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.34 / 91
p0 0.00847 ± 0.02906
pull
Entries 92
Mean 619.6
Std Dev 0

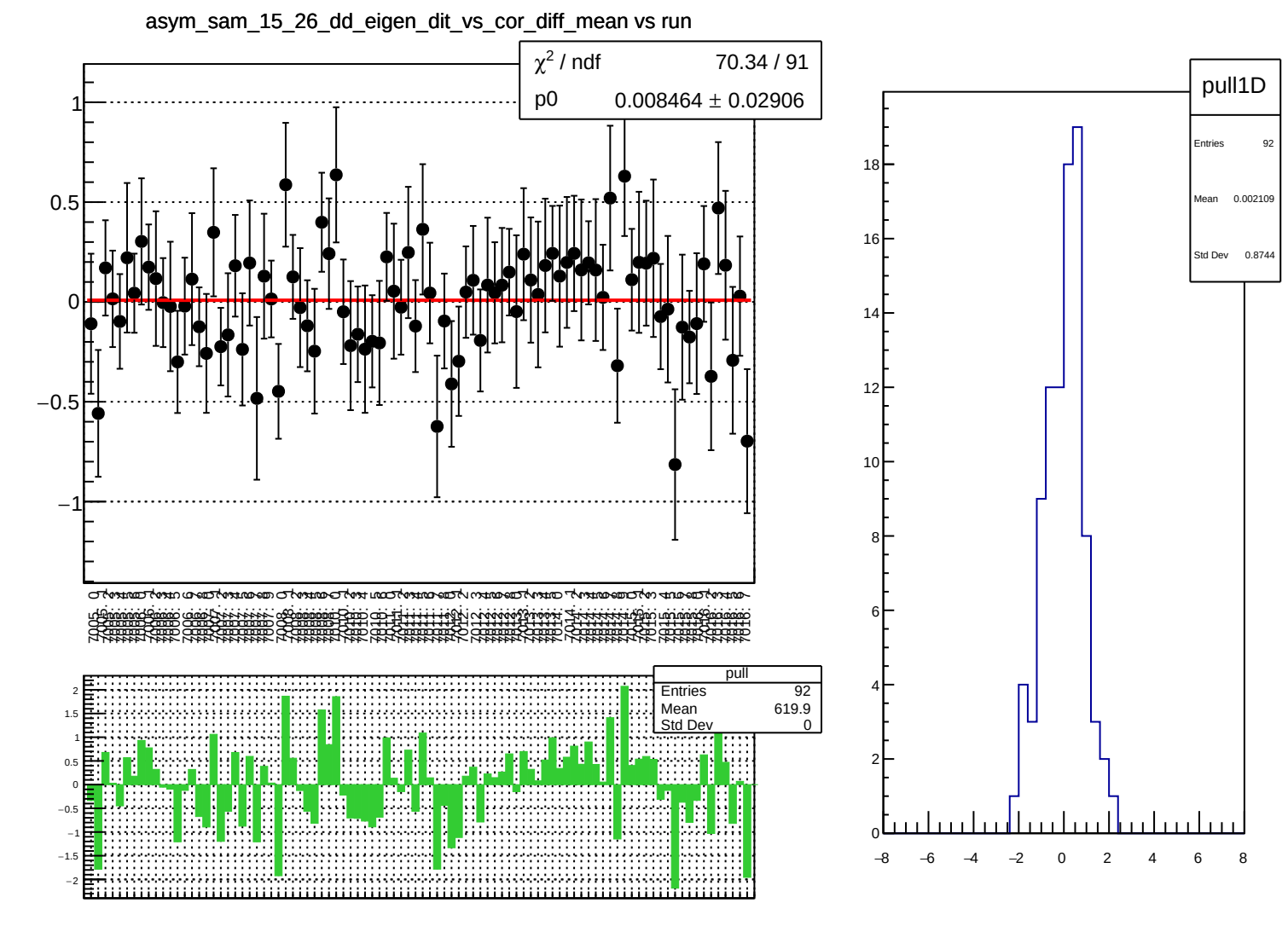

pull1D
Entries 92
Mean 0.00211
Std Dev 0.8744

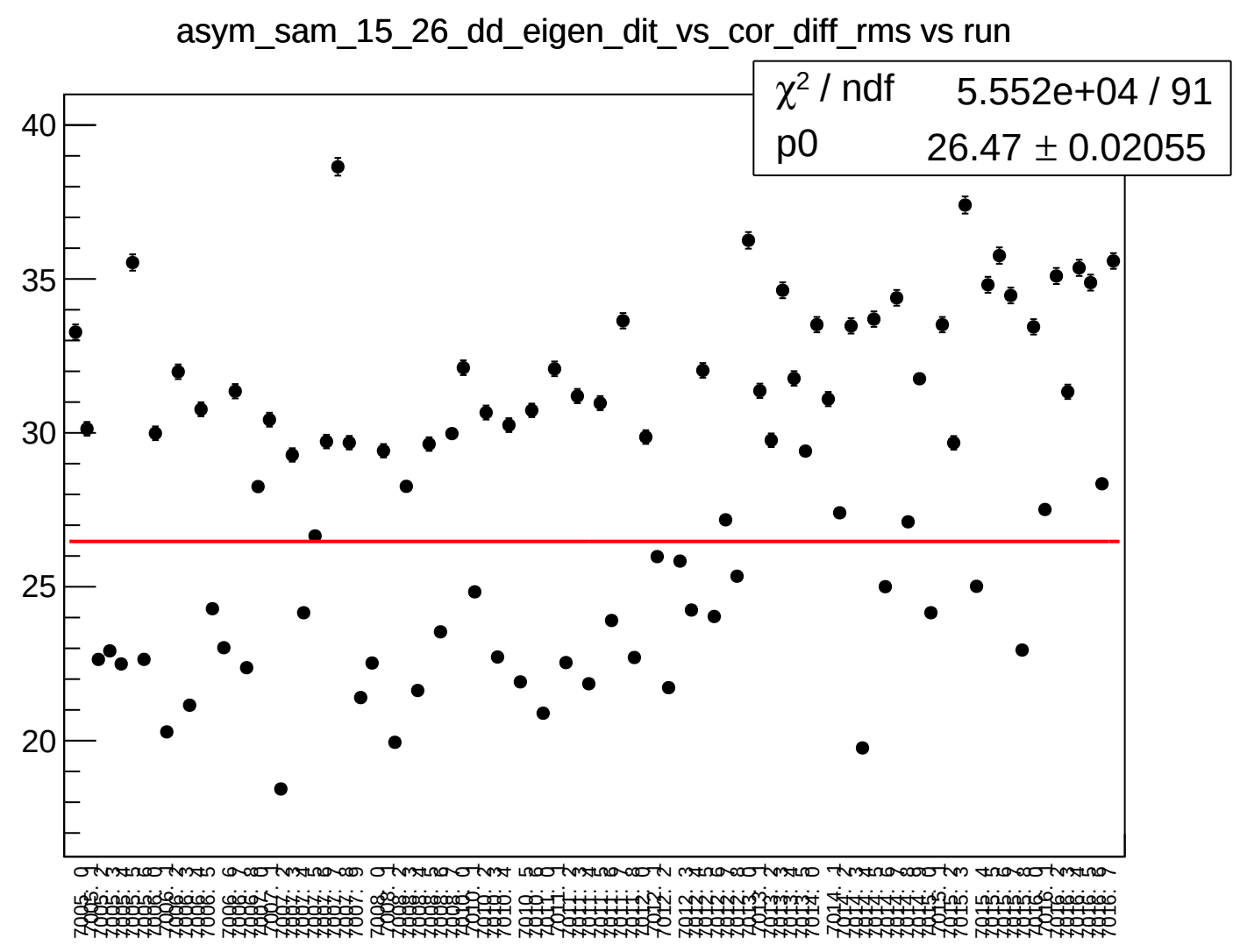

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.552e+04 / 91
p0 26.47 ± 0.02055
40
35
30
25
20

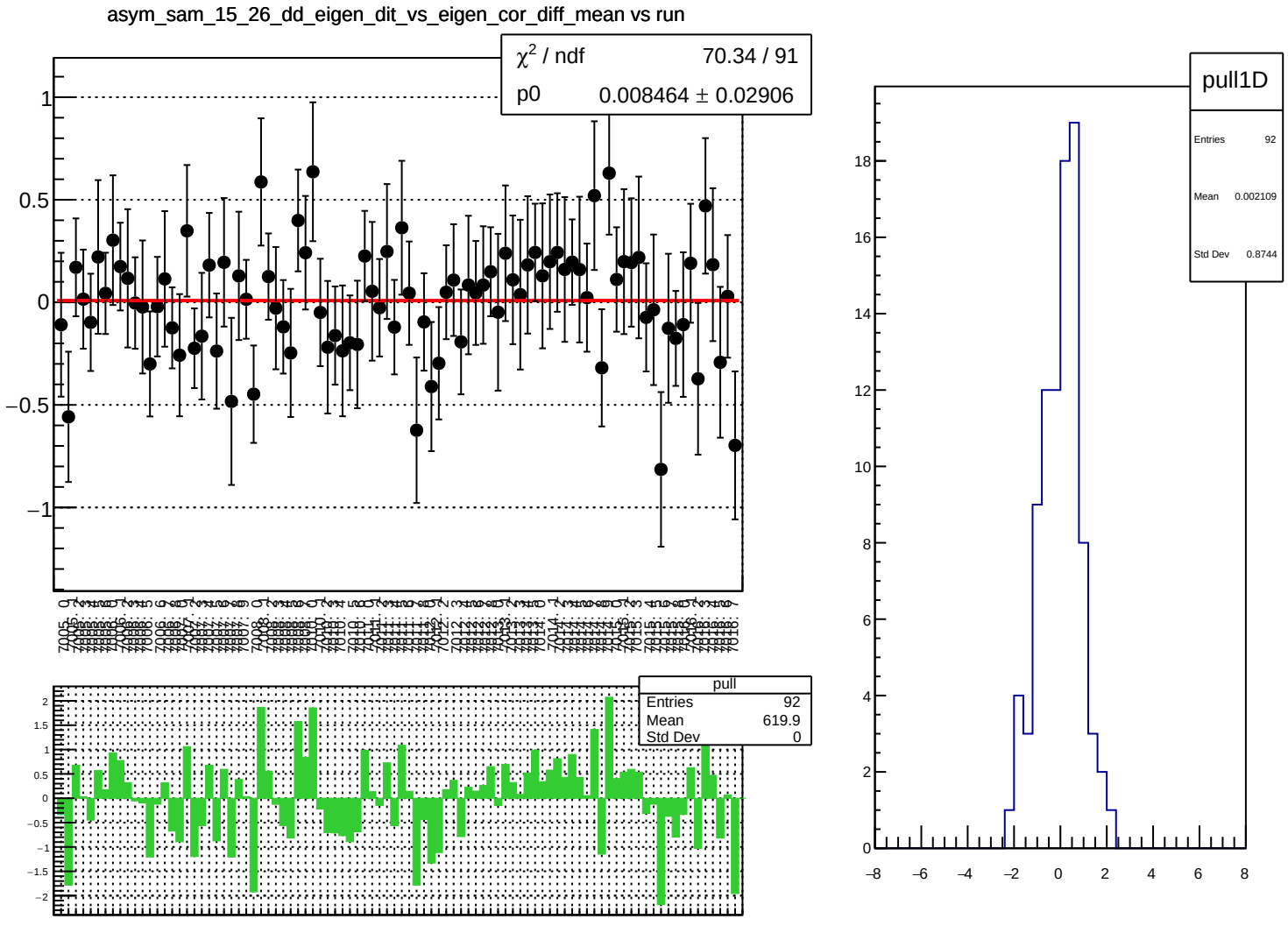

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.91 / 91
p0 −7.247e−06 ± 2.388e−06
pull
Entries 92
Mean −96.61
Std Dev 0

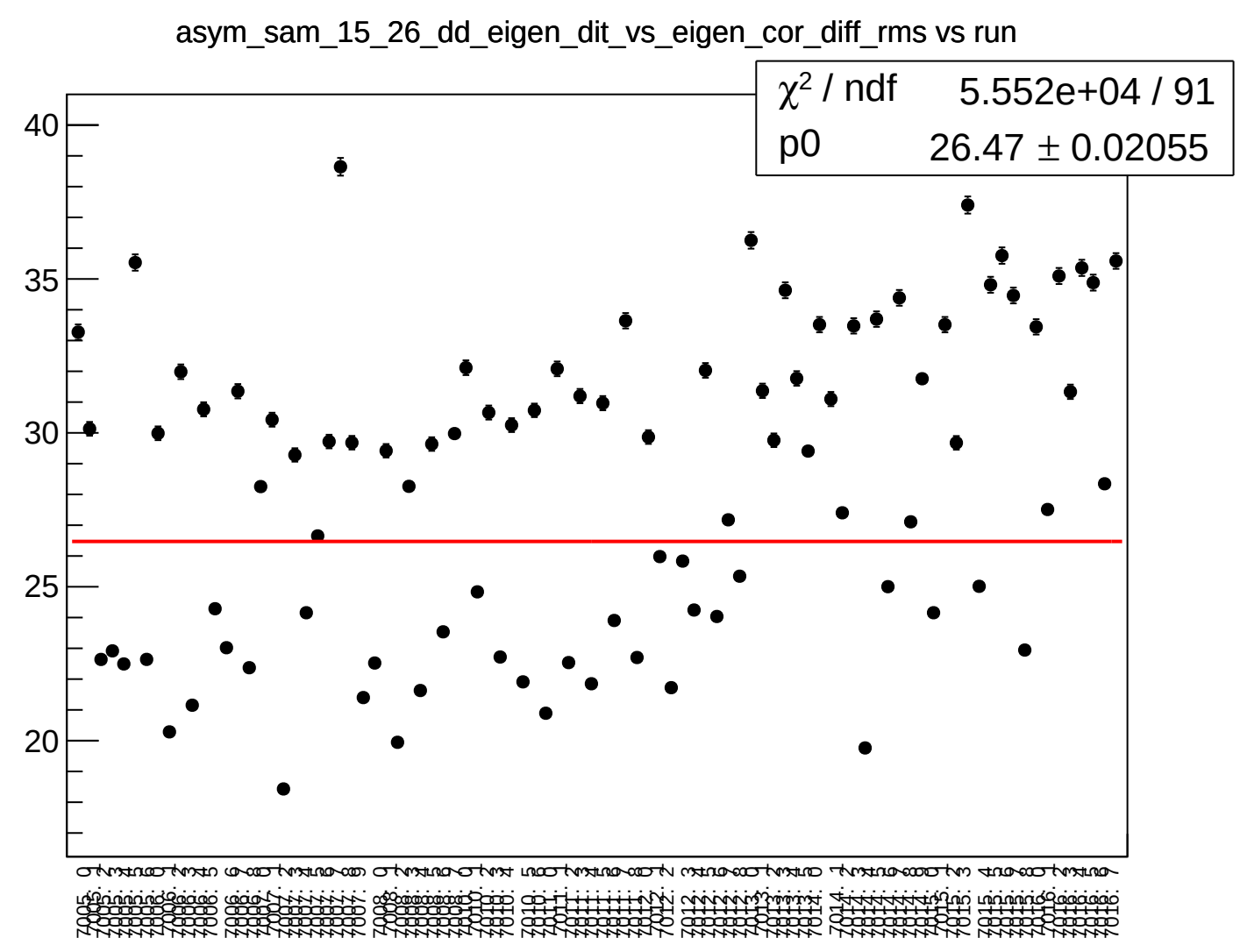

pull1D
Entries 92
Mean 0.004755
Std Dev 0.9202

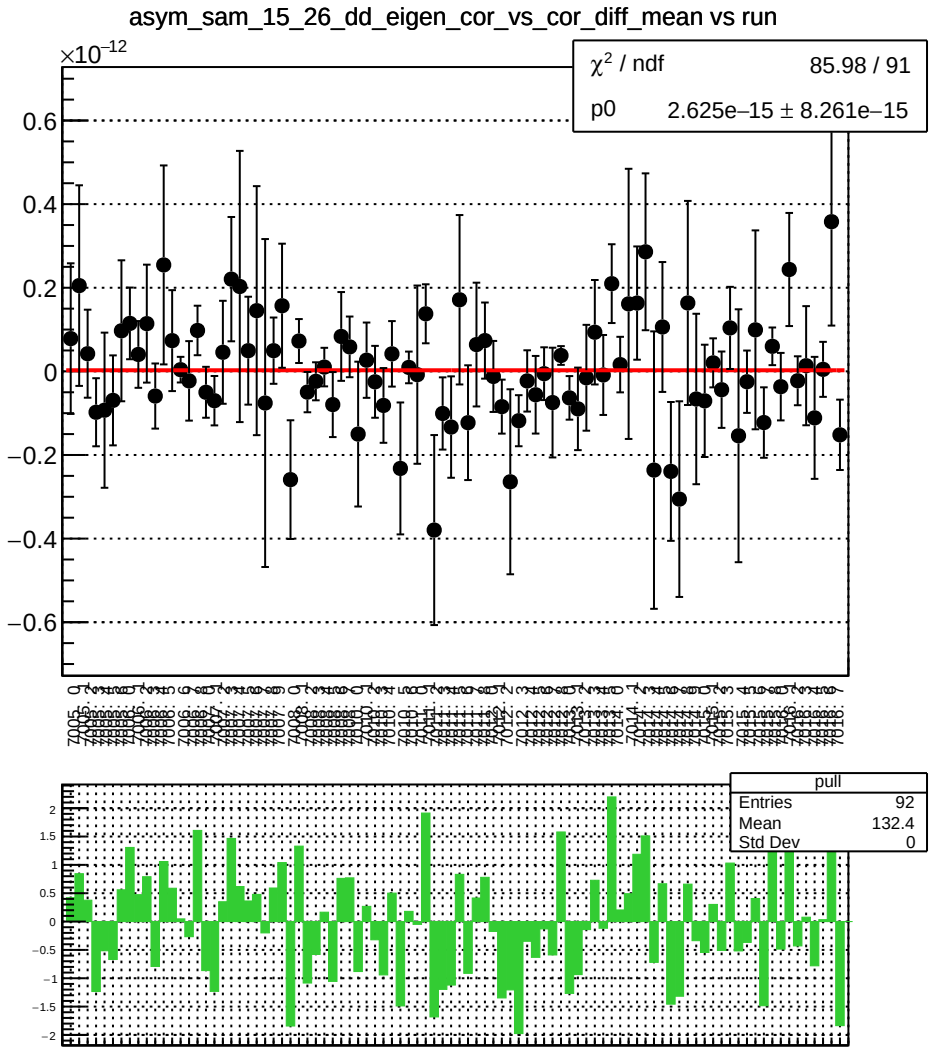

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7611 / 91
p0 0.002207 ± 1.689e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

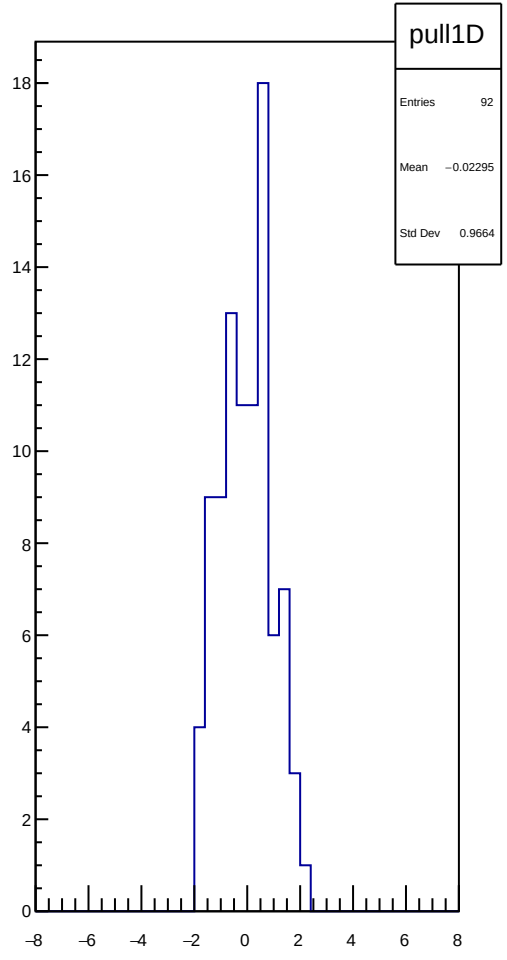

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.34 / 91
p0 0.008464 ± 0.02906
pull
Entries 92
Mean 619.9
Std Dev 0
pull1D
Entries 92
Mean 0.002109
Std Dev 0.8744

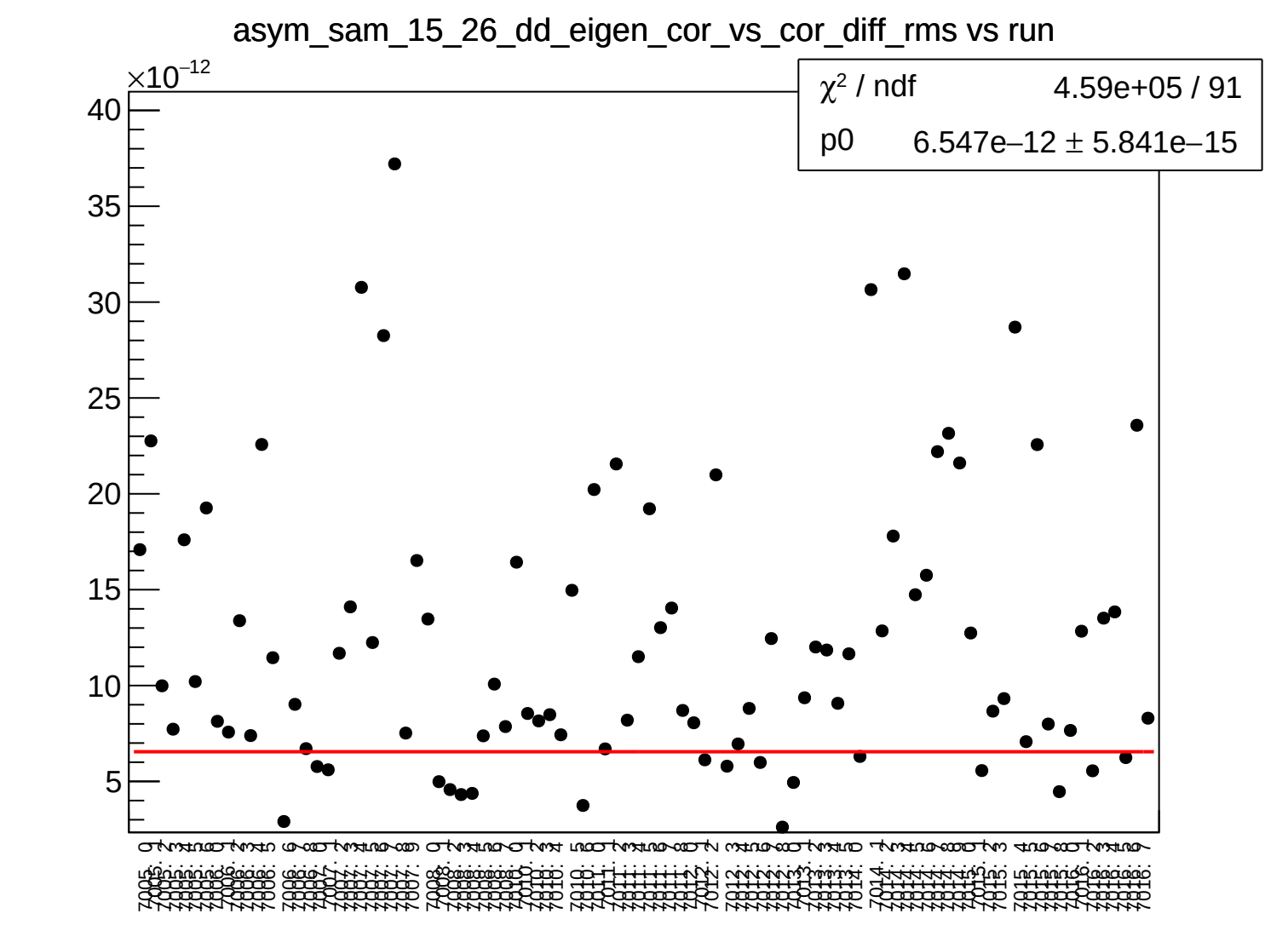

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.552e+04 / 91
p0 26.47 ± 0.02055
40
35
30
25
20

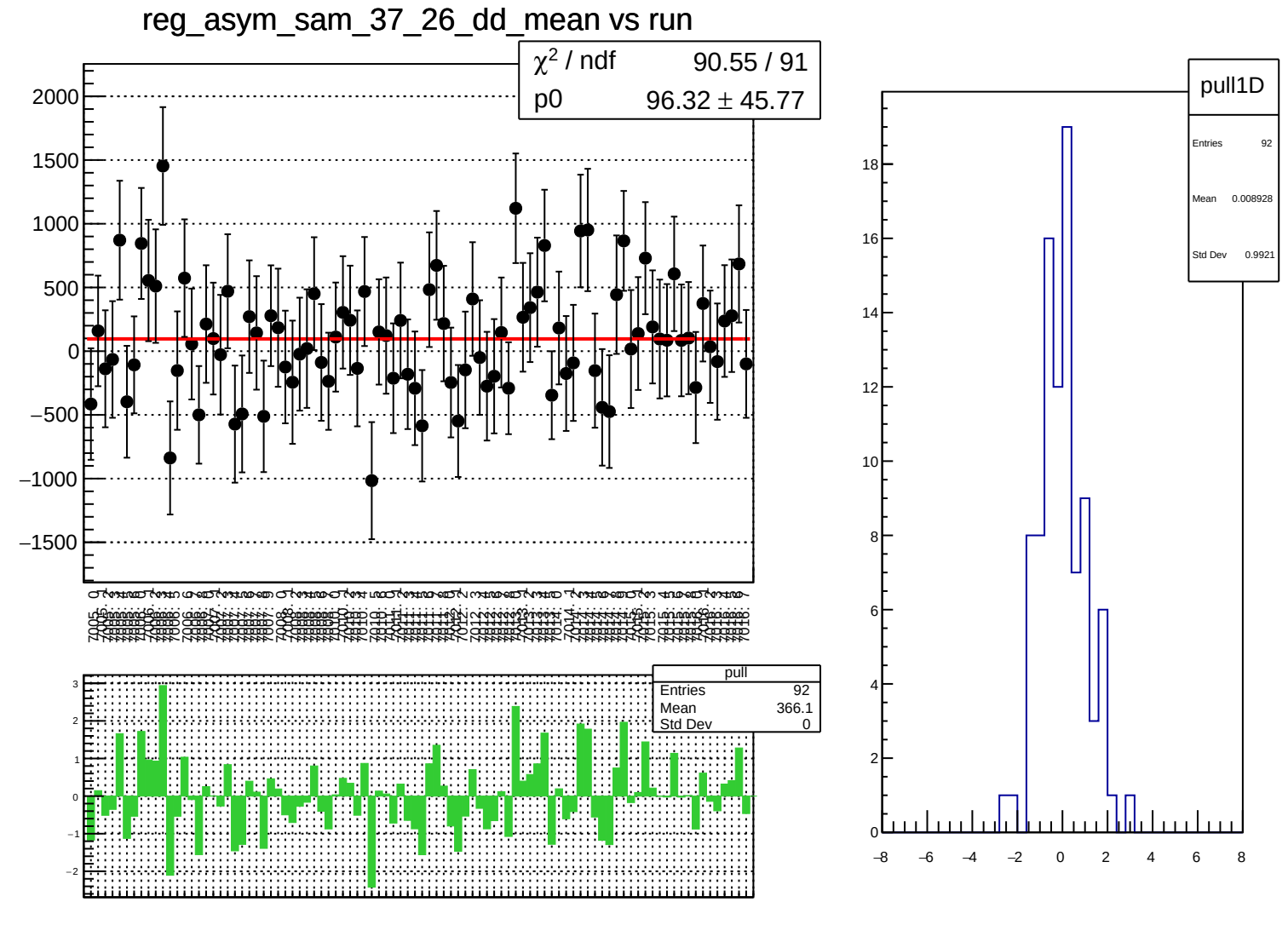

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.34 / 91
p0 0.008464 ± 0.02906
pull
Entries 92
Mean 619.9
Std Dev 0
pull1D
Entries 92
Mean 0.002109
Std Dev 0.8744

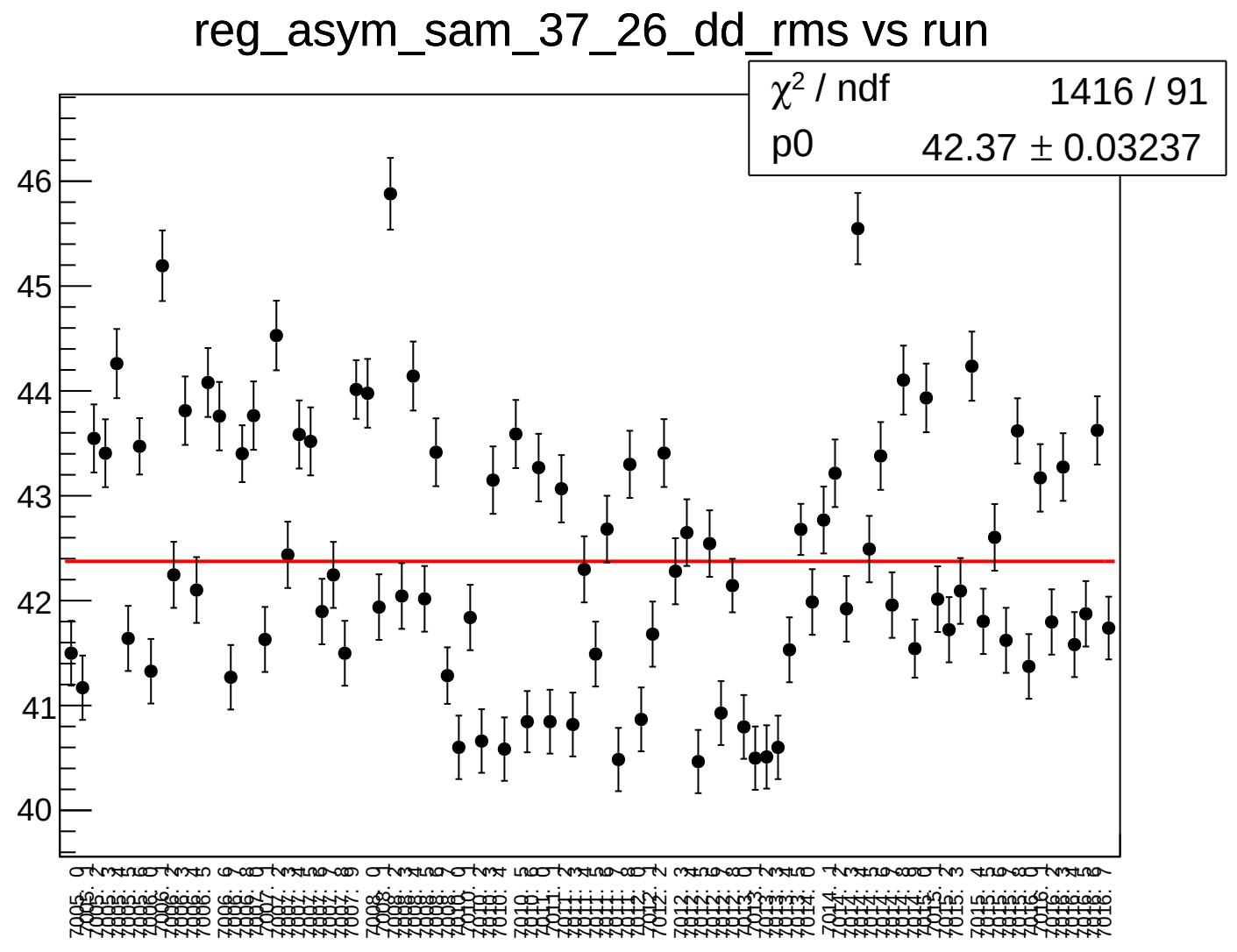

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.552e+04 / 91
p0 26.47 ± 0.02055
40
35
30
25
20

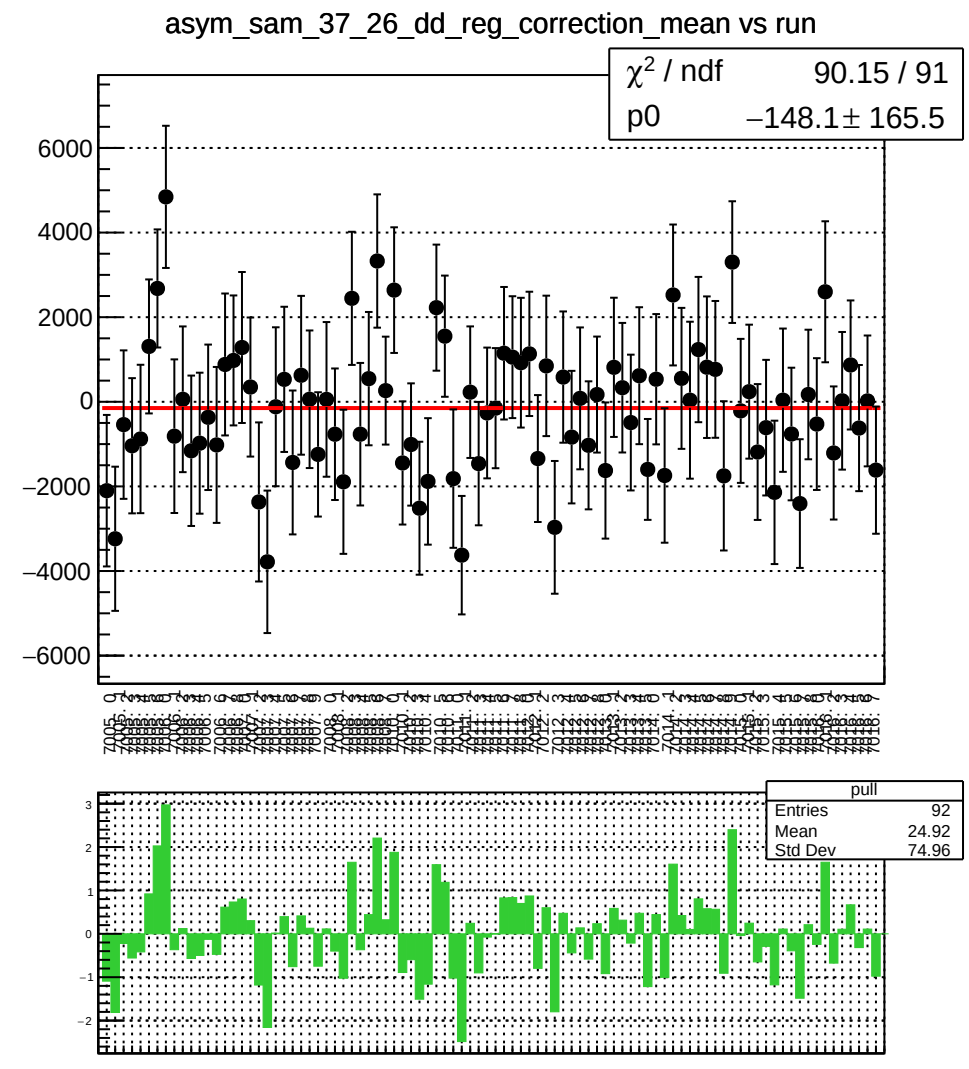

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.98 / 91
p0 2.625e−15 ± 8.261e−15
pull
Entries 92
Mean 132.4
Std Dev 0

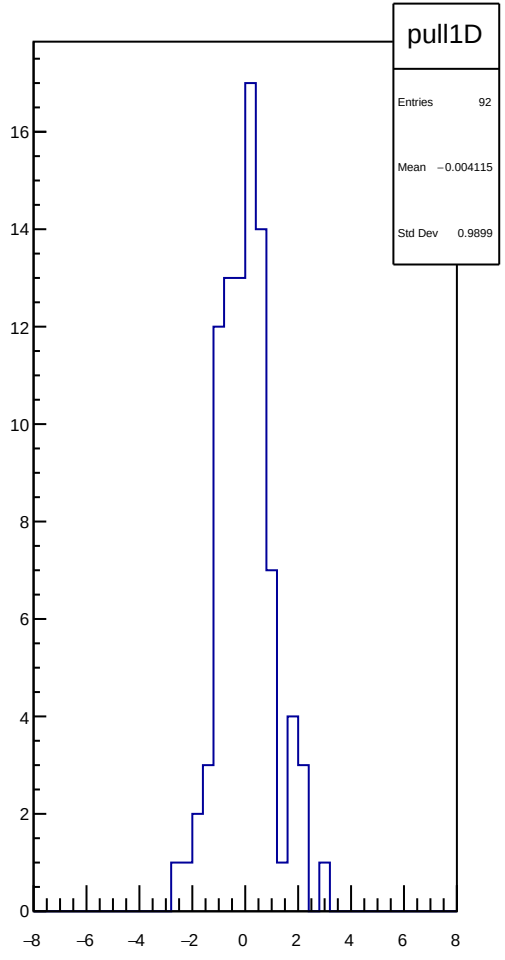

pull1D
Entries 92
Mean −0.02295
Std Dev 0.9664

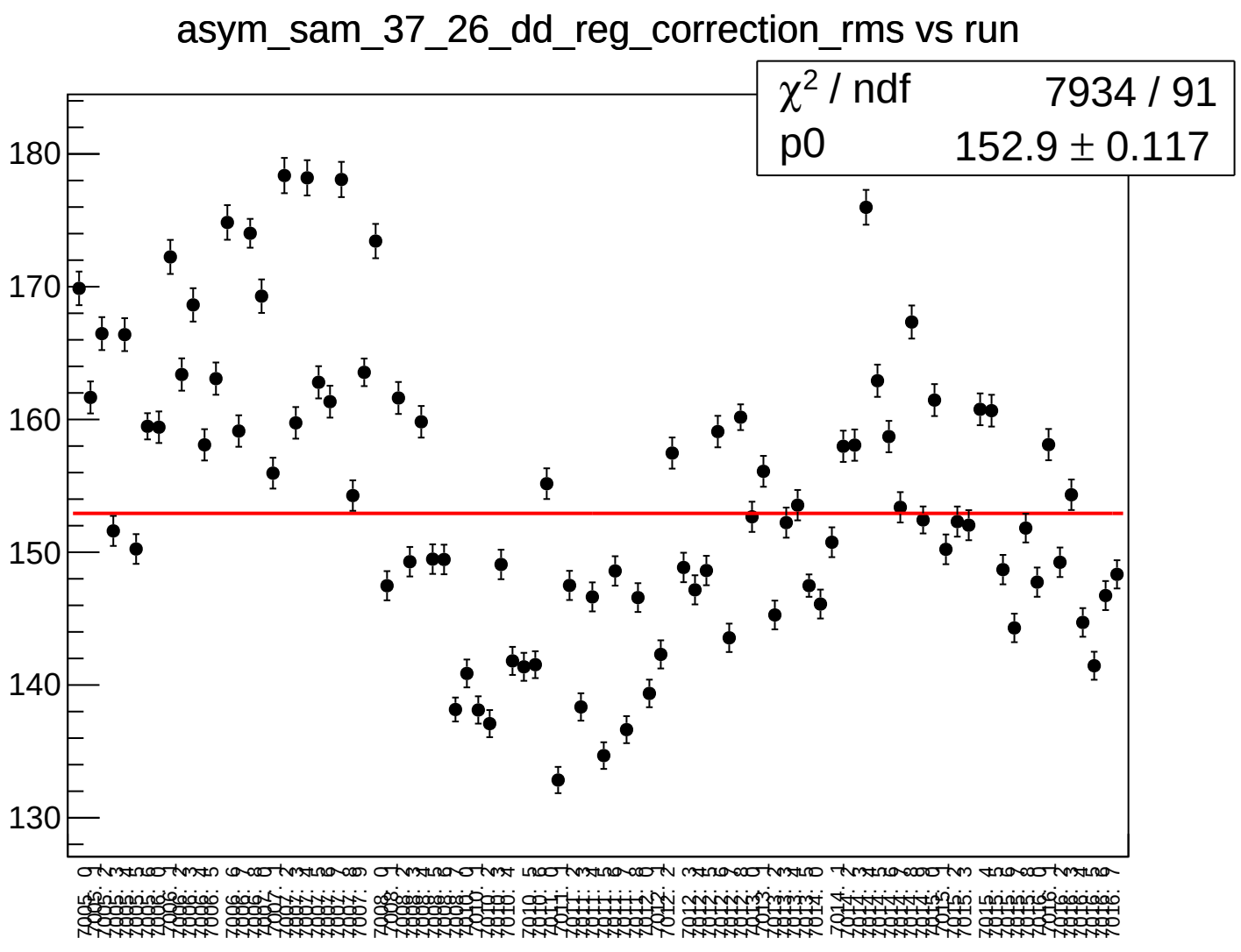

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.59e+05 / 91
p0 6.547e−12 ± 5.841e−15
40
35
30
25
20
15
10
5

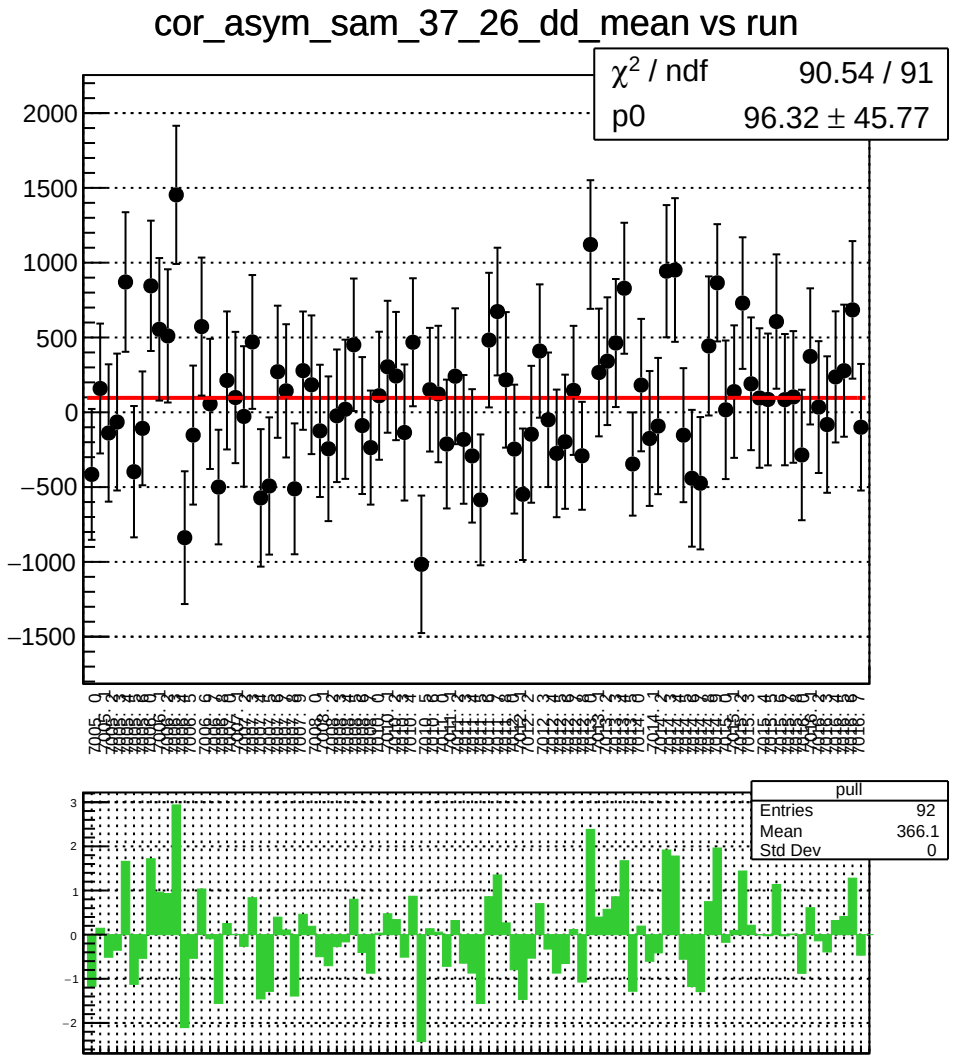

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.55 / 91
p0 96.32 ± 45.77
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean 366.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.008928
Std Dev 0.9921
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

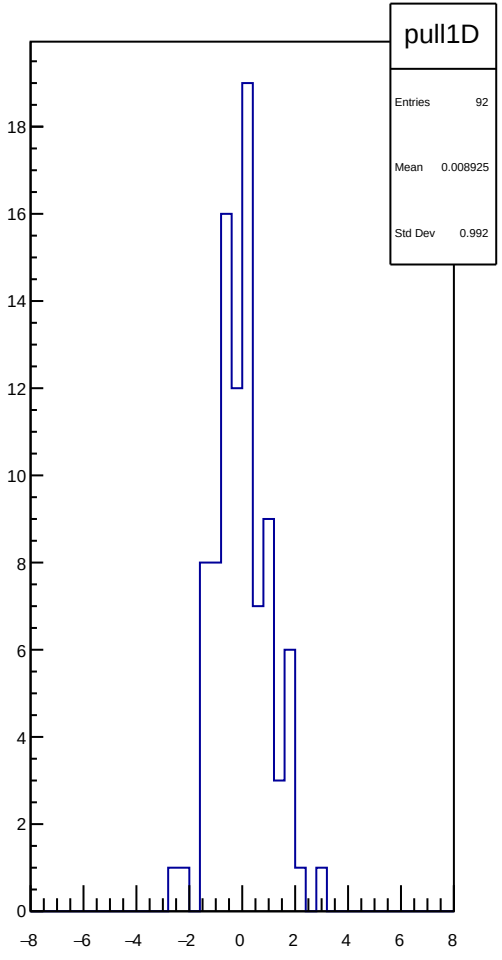

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1416 / 91
p0 42.37 ± 0.03237
46
45
44
43
42
41
40

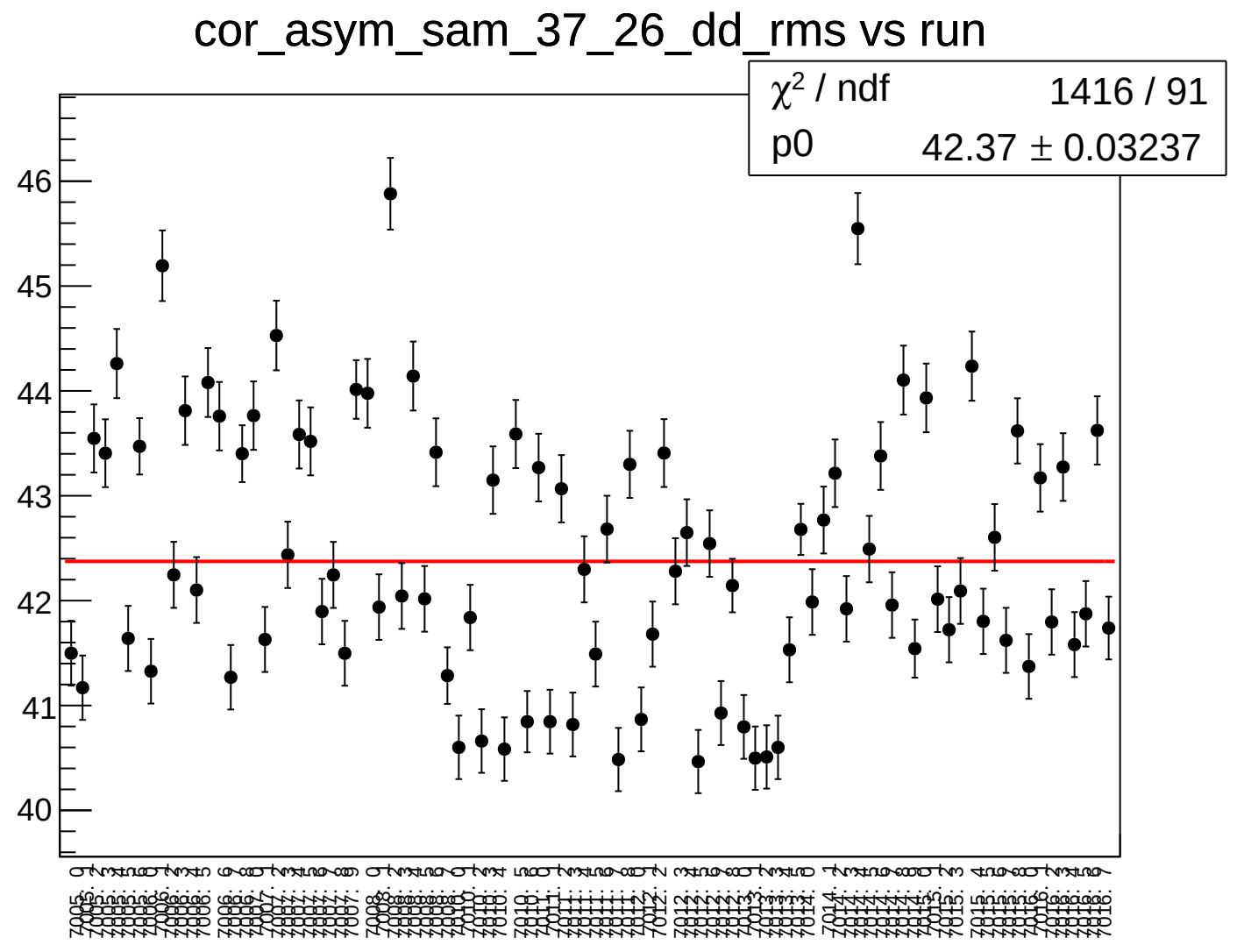

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 90.15 / 91
p0 −148.1± 165.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 24.92
Std Dev 74.96
3
2
1
0
−1
−2

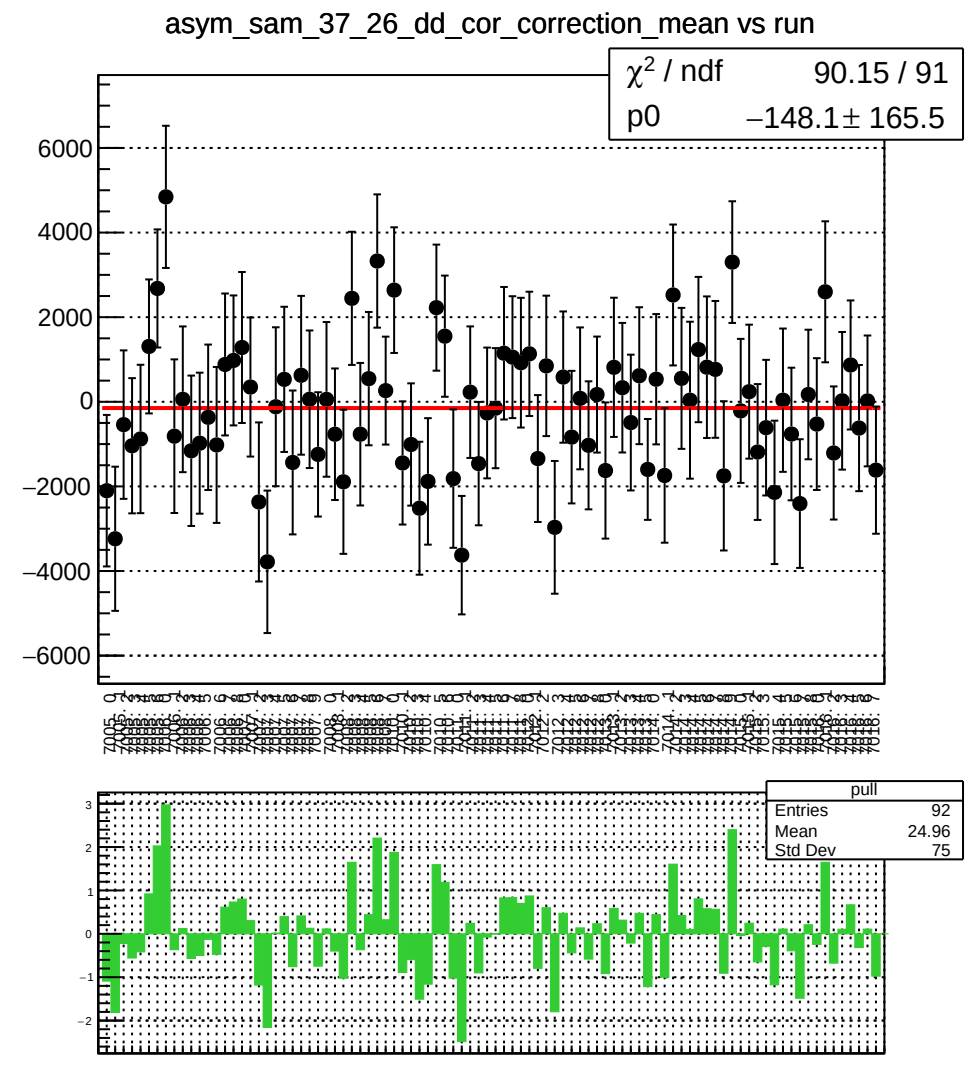

pull1D
Entries 92
Mean −0.004115
Std Dev 0.9899
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

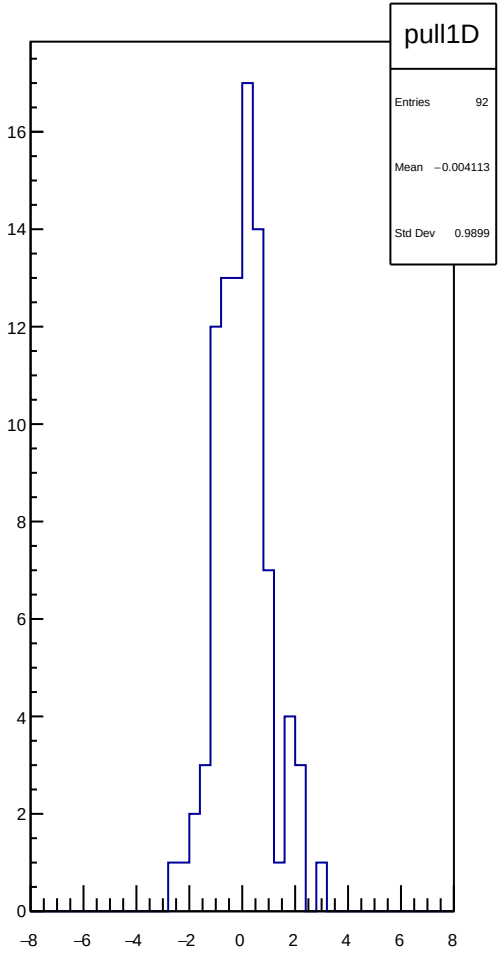

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 7934 / 91
p0 152.9 ± 0.117
180
170
160
150
140
130

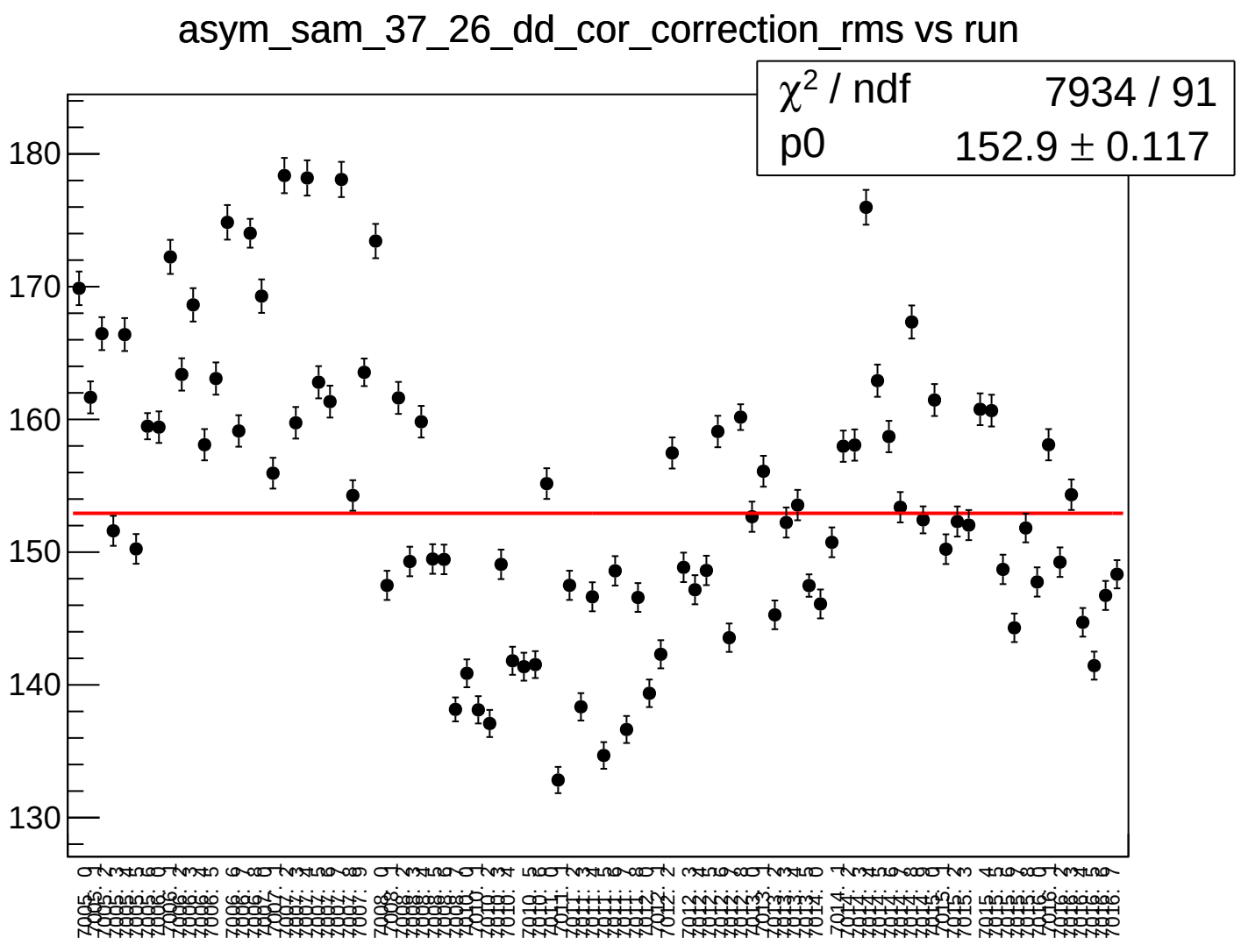

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 90.54 / 91
p0 96.32 ± 45.77
pull
Entries 92
Mean 366.1
Std Dev 0

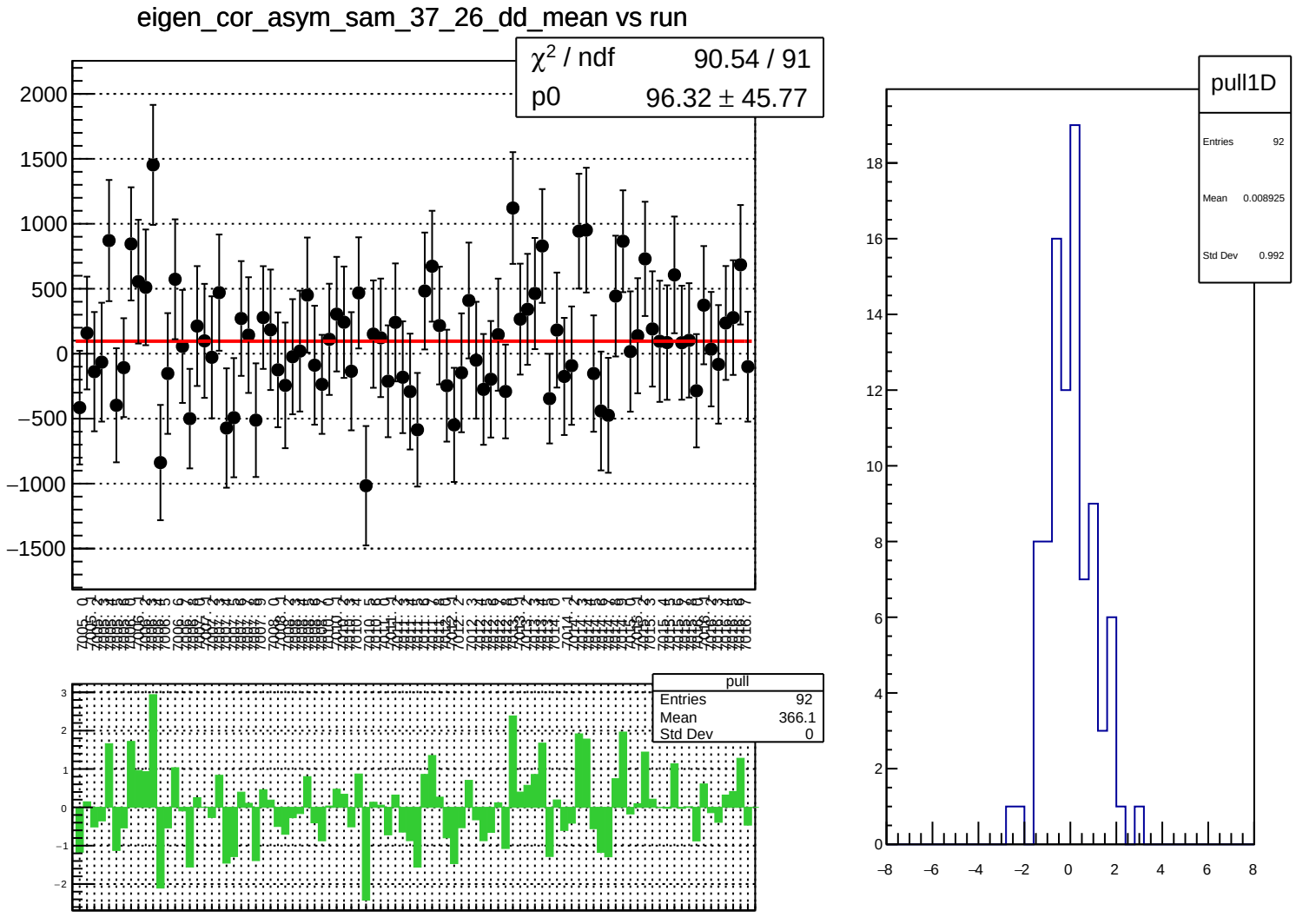

pull1D
Entries 92
Mean 0.008925
Std Dev 0.992

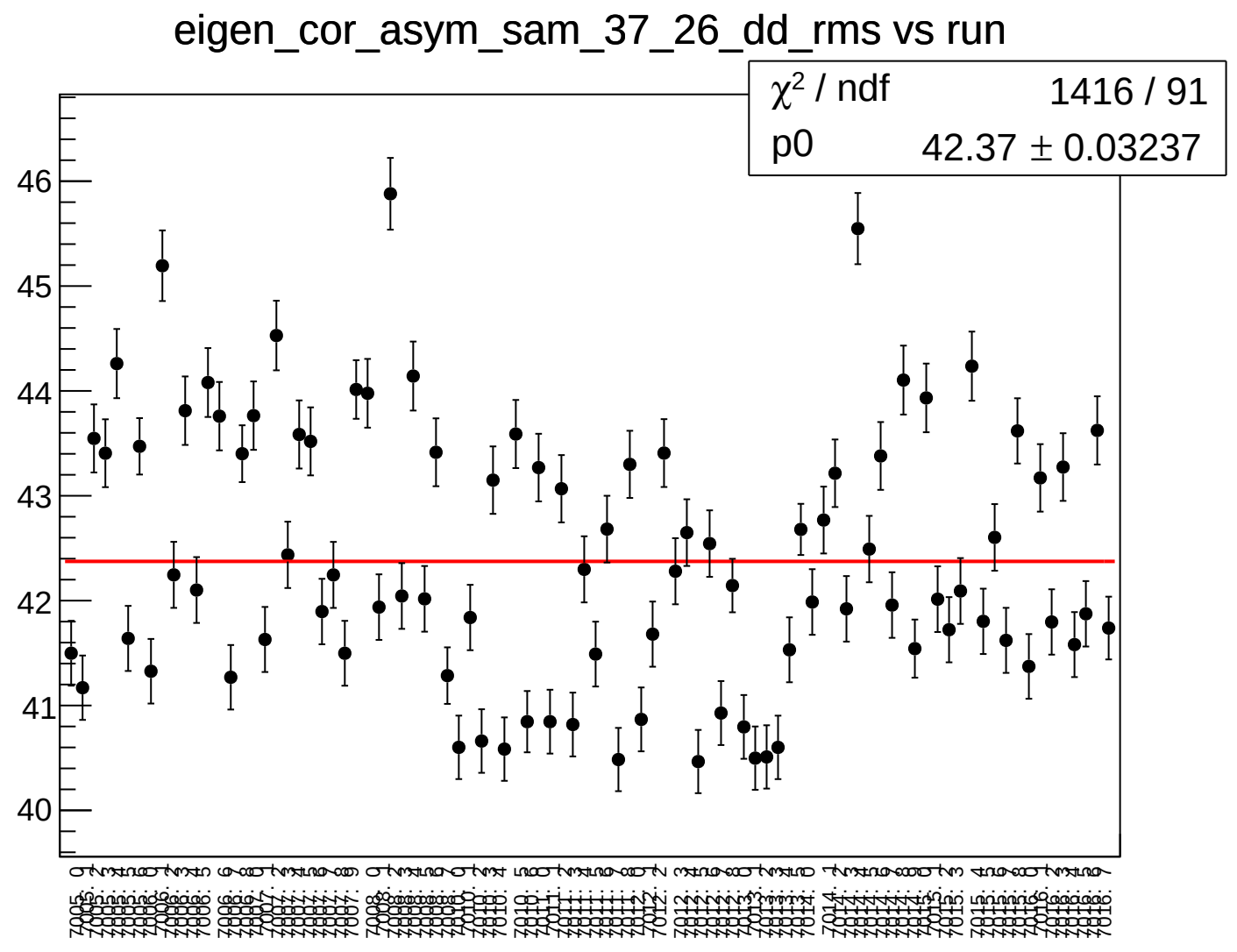

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1416 / 91
p0 42.37 ± 0.03237
46
45
44
43
42
41
40

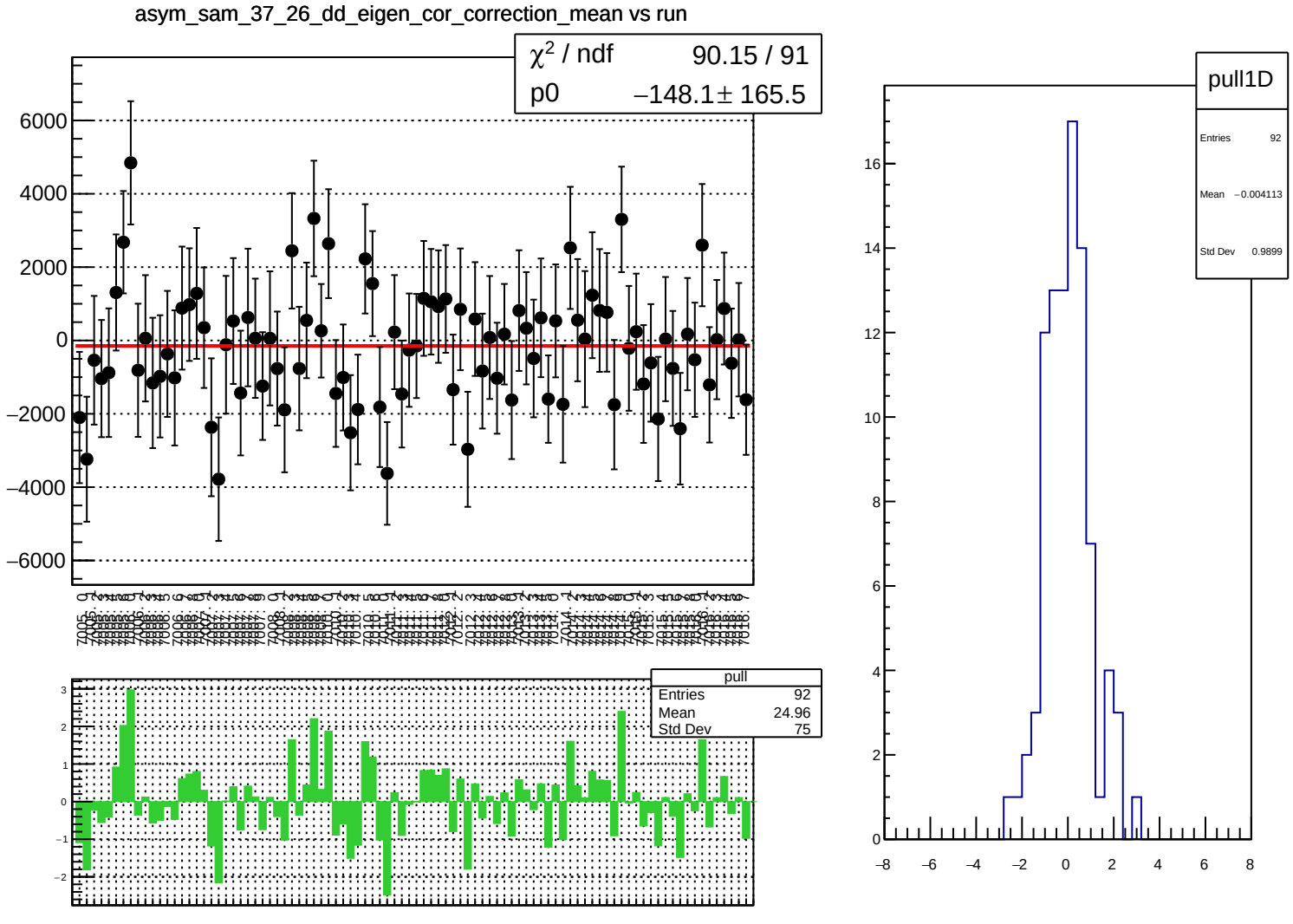

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 90.15 / 91
p0 −148.1± 165.5
pull
Entries 92
Mean 24.96
Std Dev 75

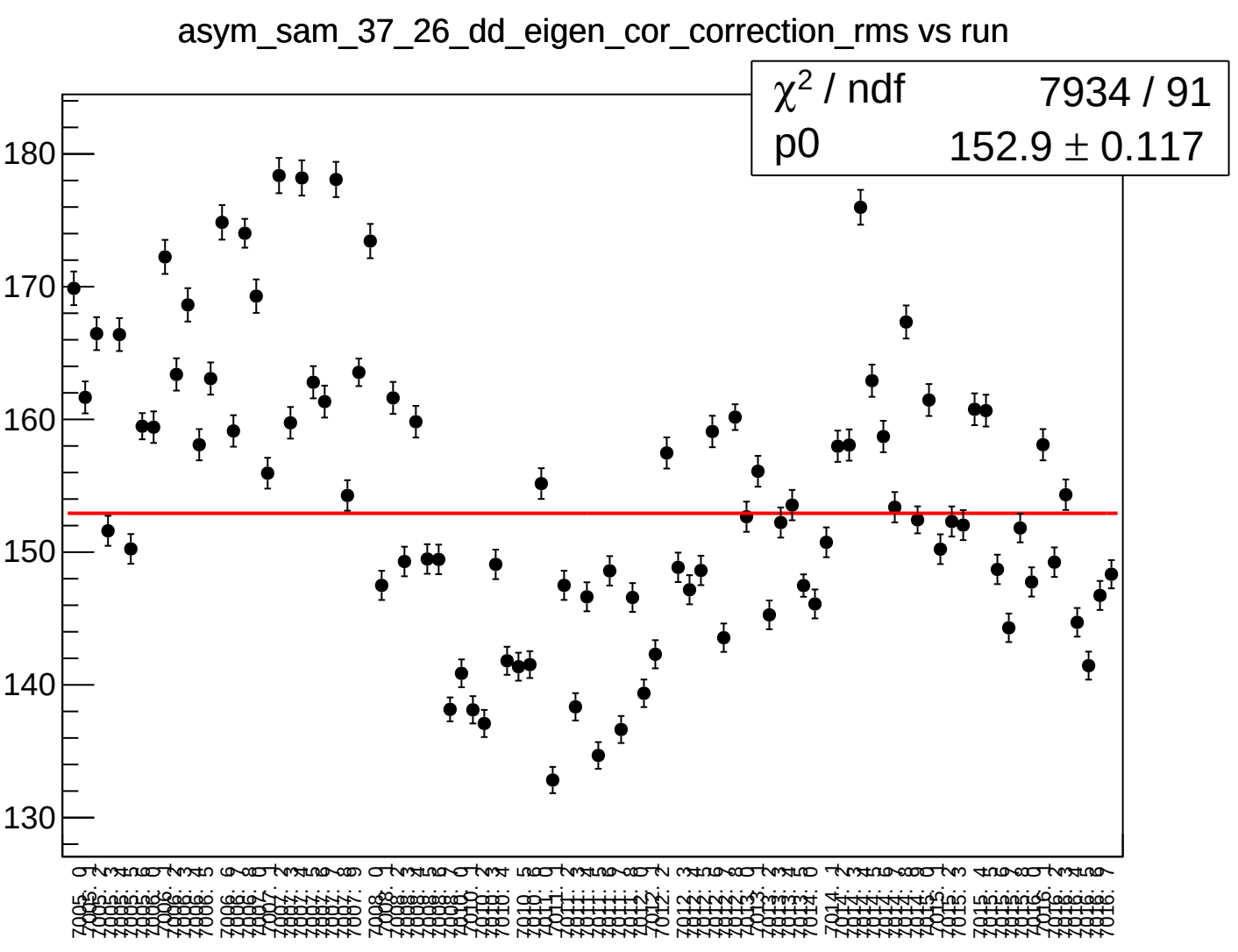

pull1D
Entries 92
Mean −0.004113
Std Dev 0.9899

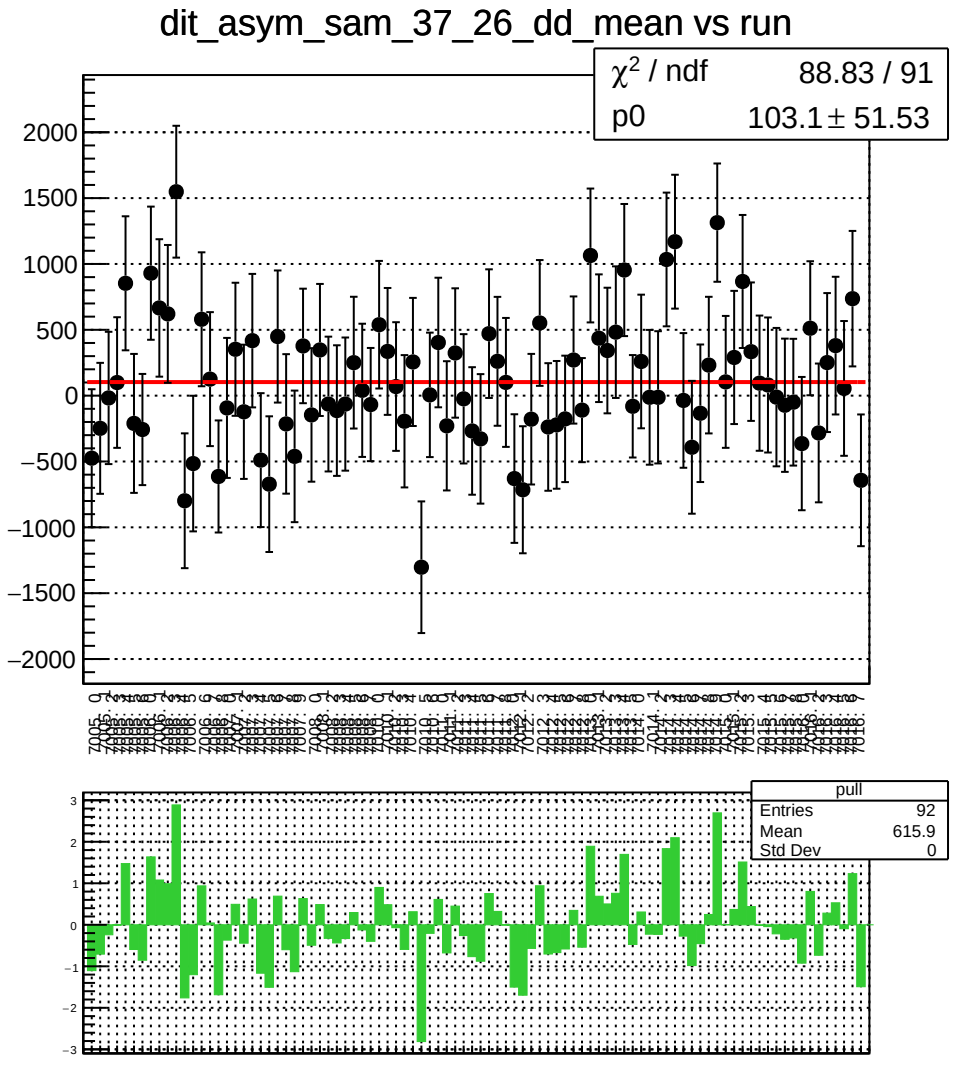

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 7934 / 91
p0 152.9 ± 0.117
180
170
160
150
140
130

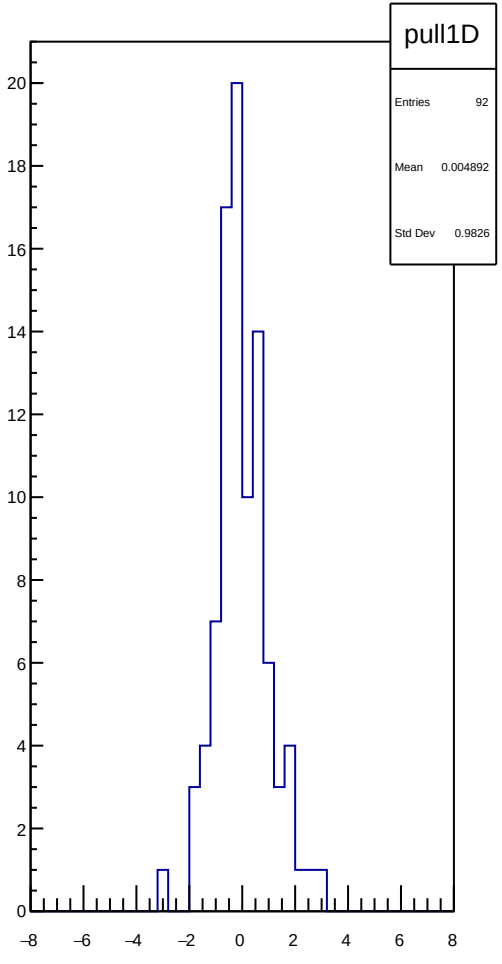

eigen_cor_asym_sam_37_26_dd_mean vs run
$\chi^2$ / ndf 90.54 / 91
p0 96.32 ± 45.77
pull
Entries 92
Mean 366.1
Std Dev 0
pull1D
Entries 92
Mean 0.008925
Std Dev 0.992

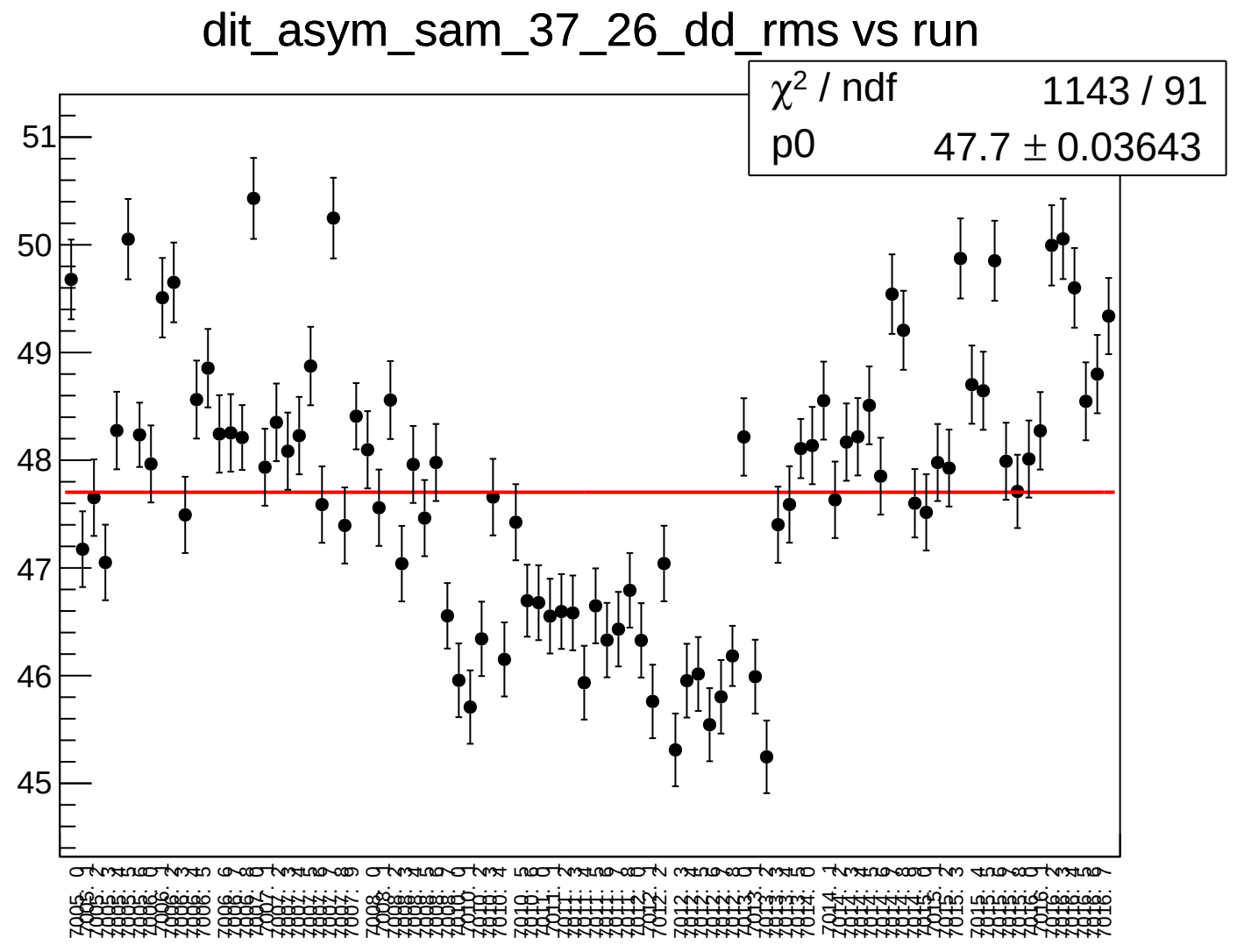

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1416 / 91
p0 42.37 ± 0.03237
46
45
44
43
42
41
40

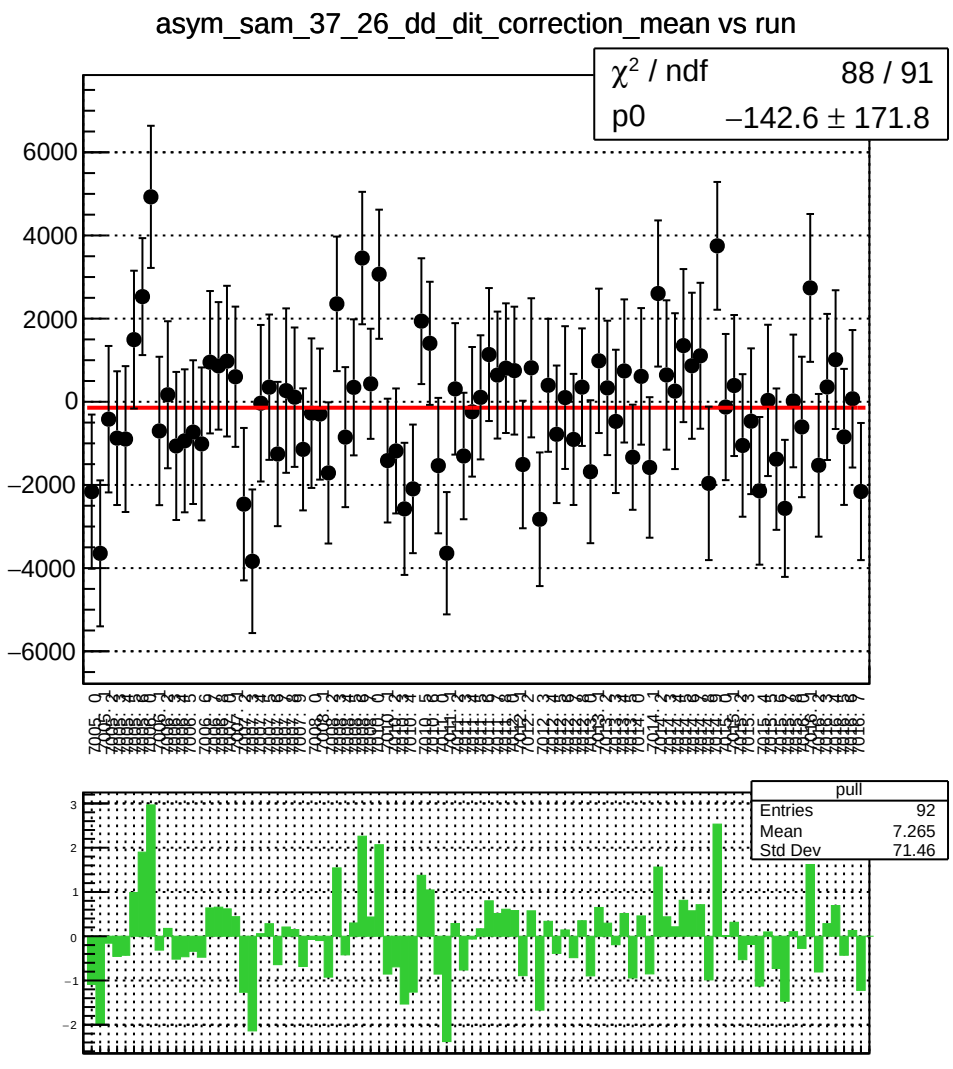

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.15 / 91
p0 −148.1± 165.5
pull
Entries 92
Mean 24.96
Std Dev 75
pull1D
Entries 92
Mean −0.004113
Std Dev 0.9899

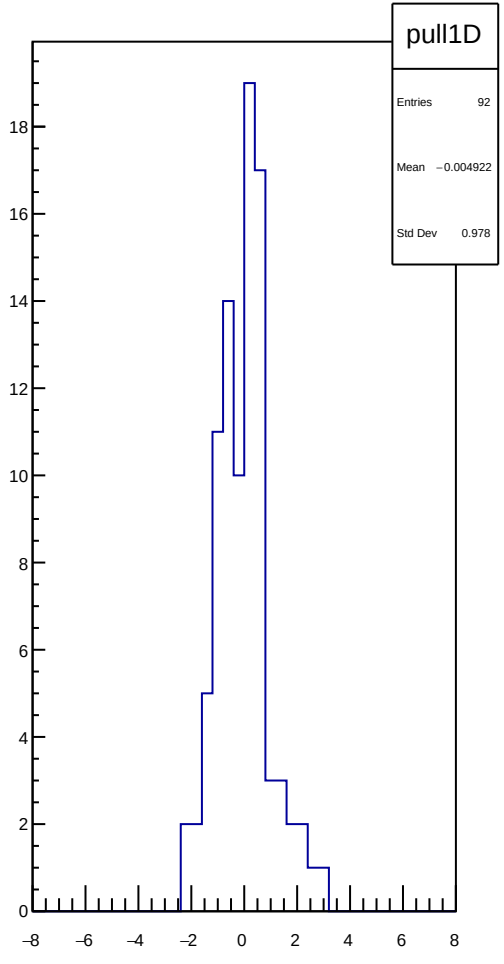

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 7934 / 91
p0 152.9 ± 0.117
180
170
160
150
140
130

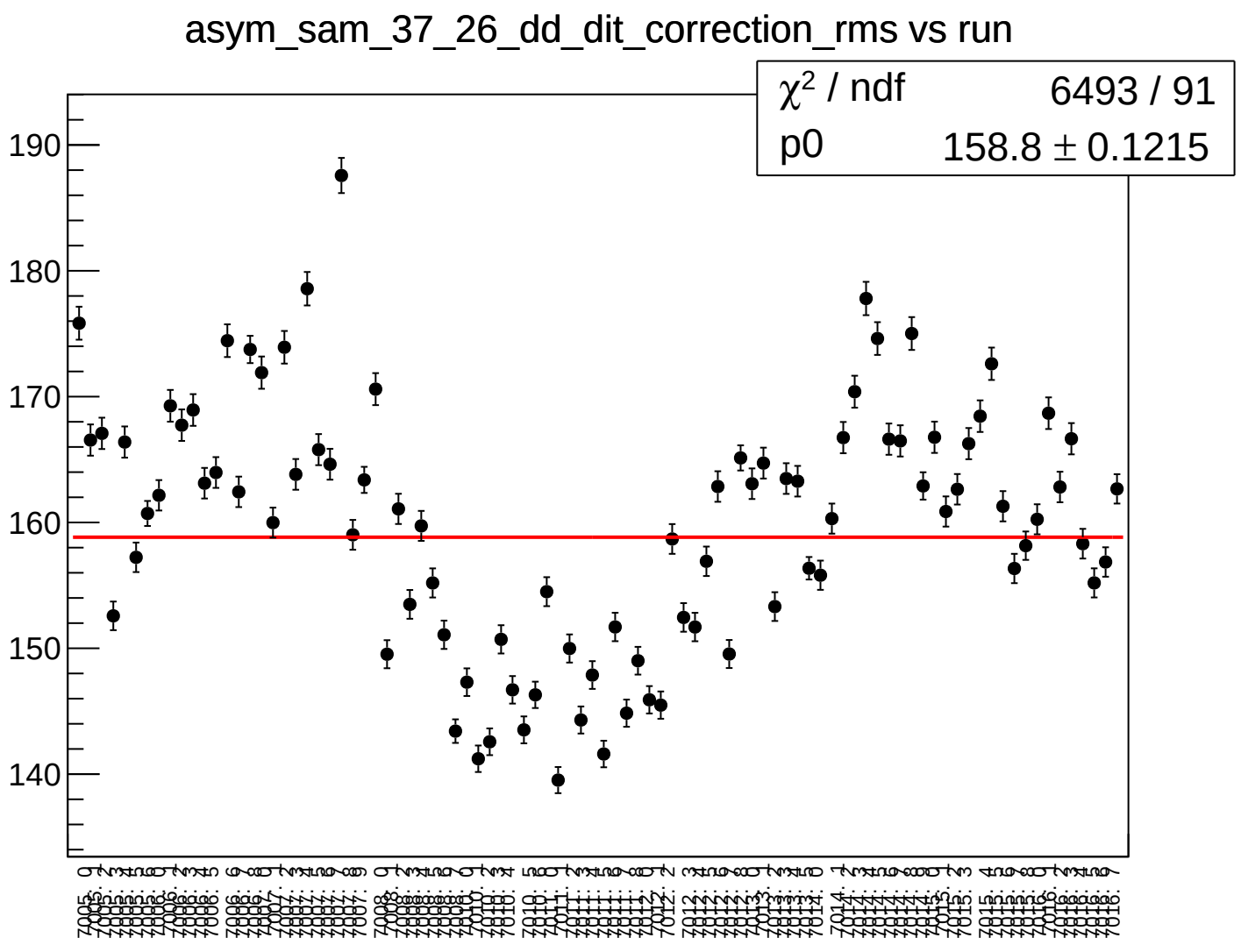

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 88.83 / 91
p0 103.1 ± 51.53
pull
Entries 92
Mean 615.9
Std Dev 0

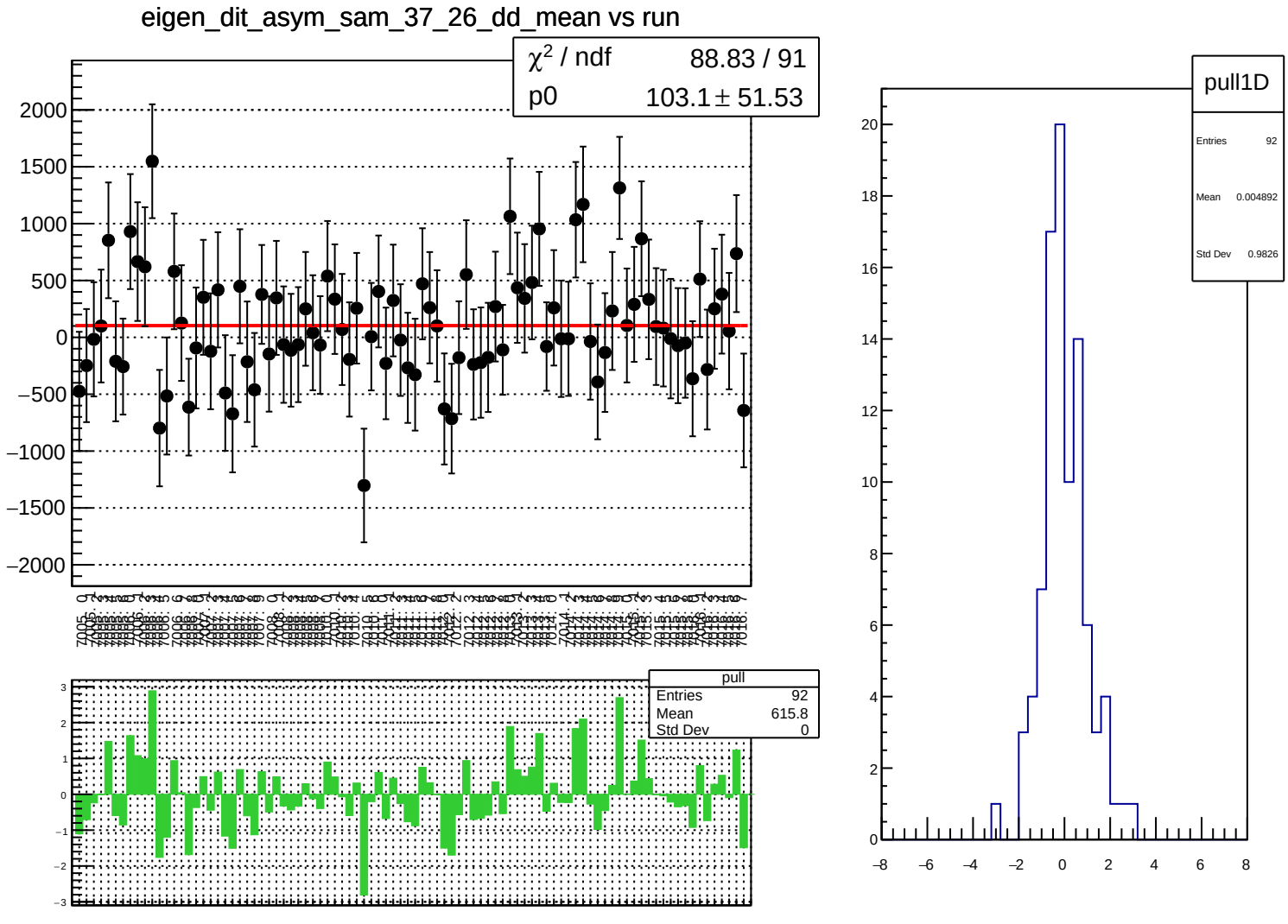

pull1D
Entries 92
Mean 0.004892
Std Dev 0.9826

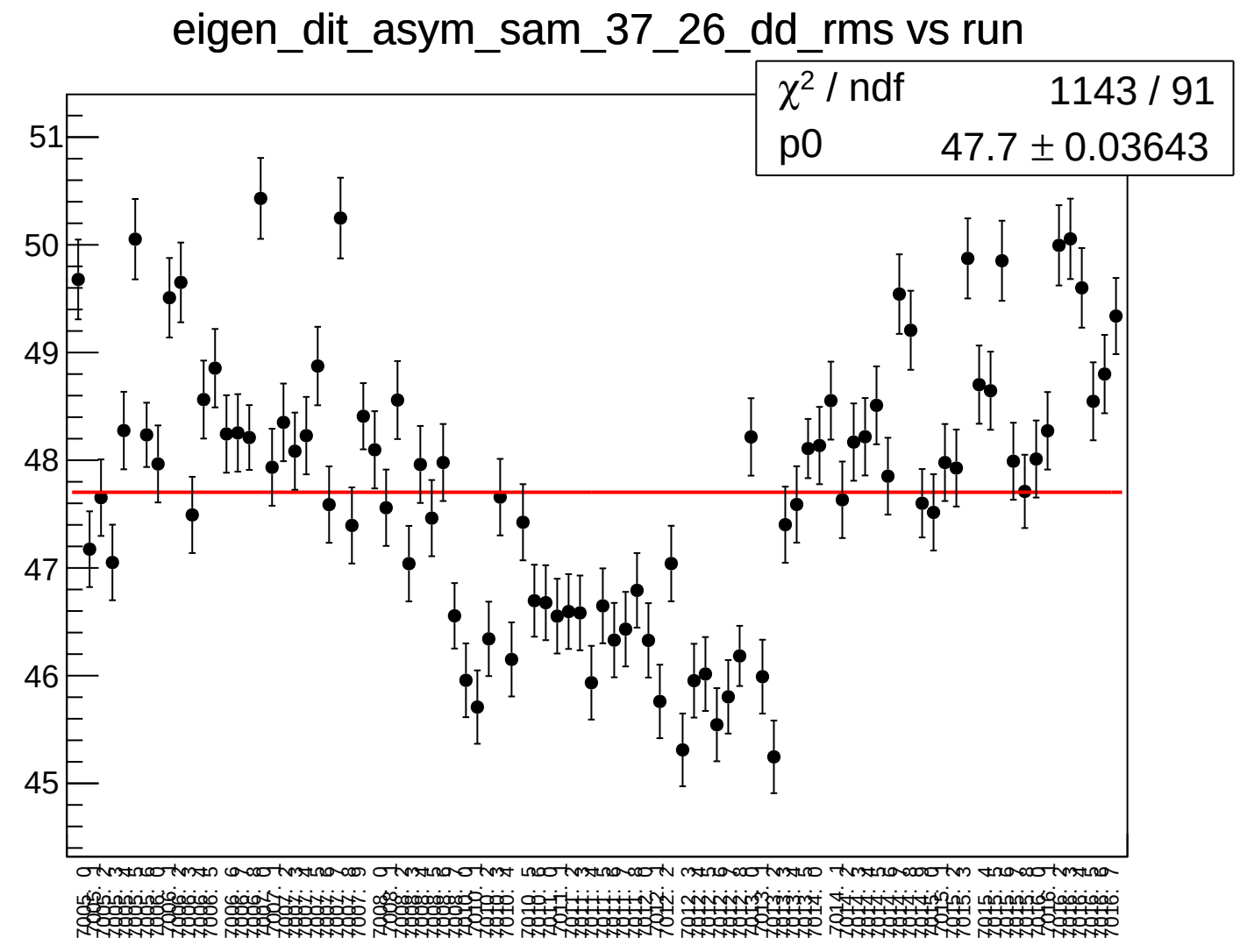

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1143 / 91
p0 47.7 ± 0.03643
51
50
49
48
47
46
45

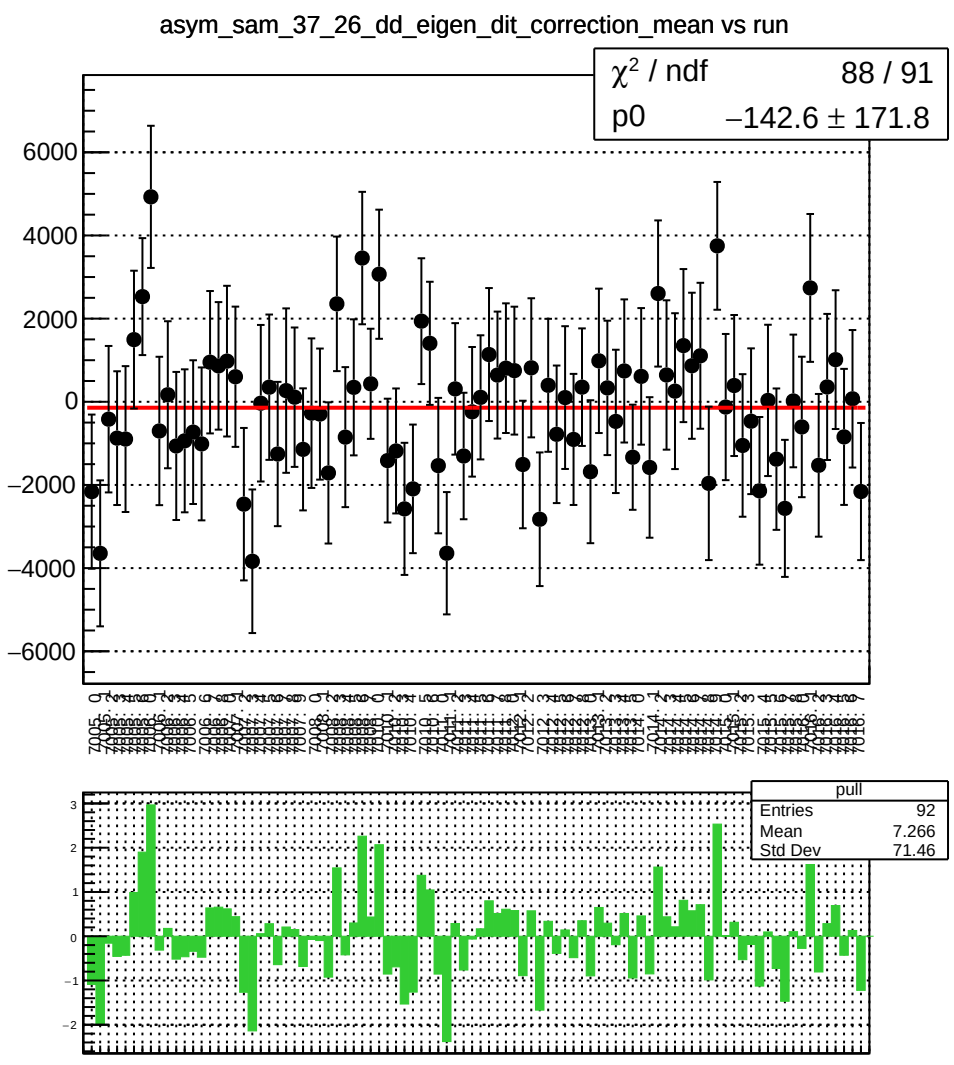

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 88 / 91
p0 −142.6 ± 171.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 7.265
Std Dev 71.46
3
2
1
0
−1
−2

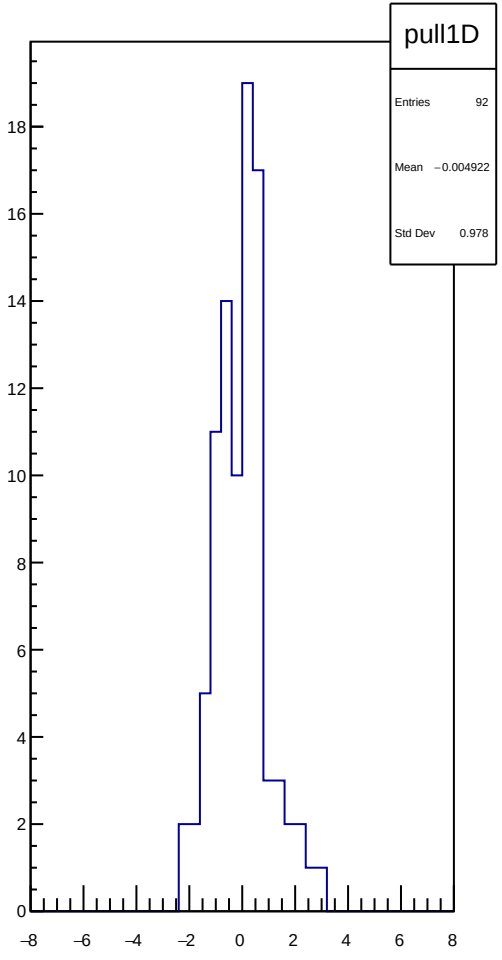

pull1D
Entries 92
Mean −0.004922
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

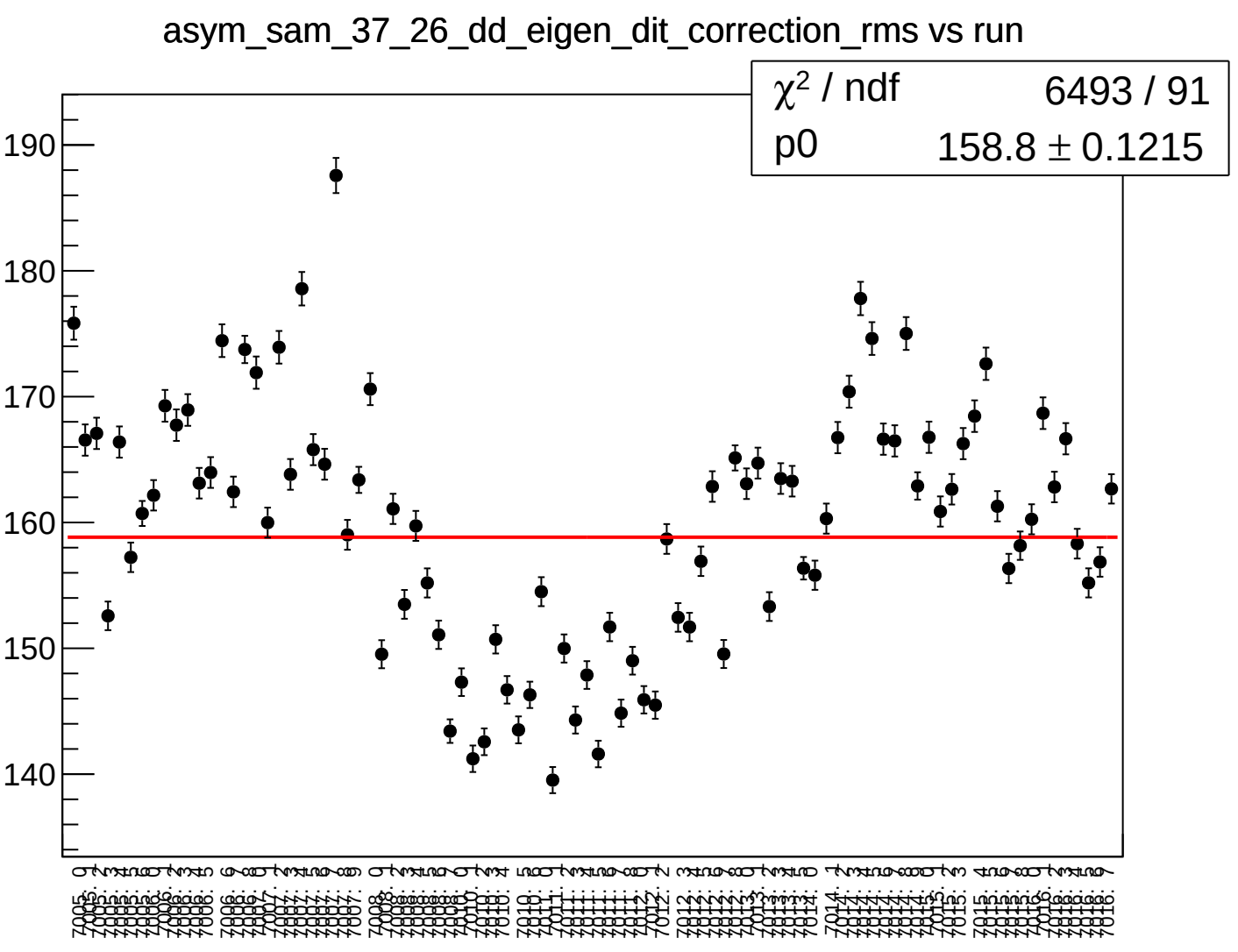

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 6493 / 91
p0 158.8 ± 0.1215
190
180
170
160
150
140

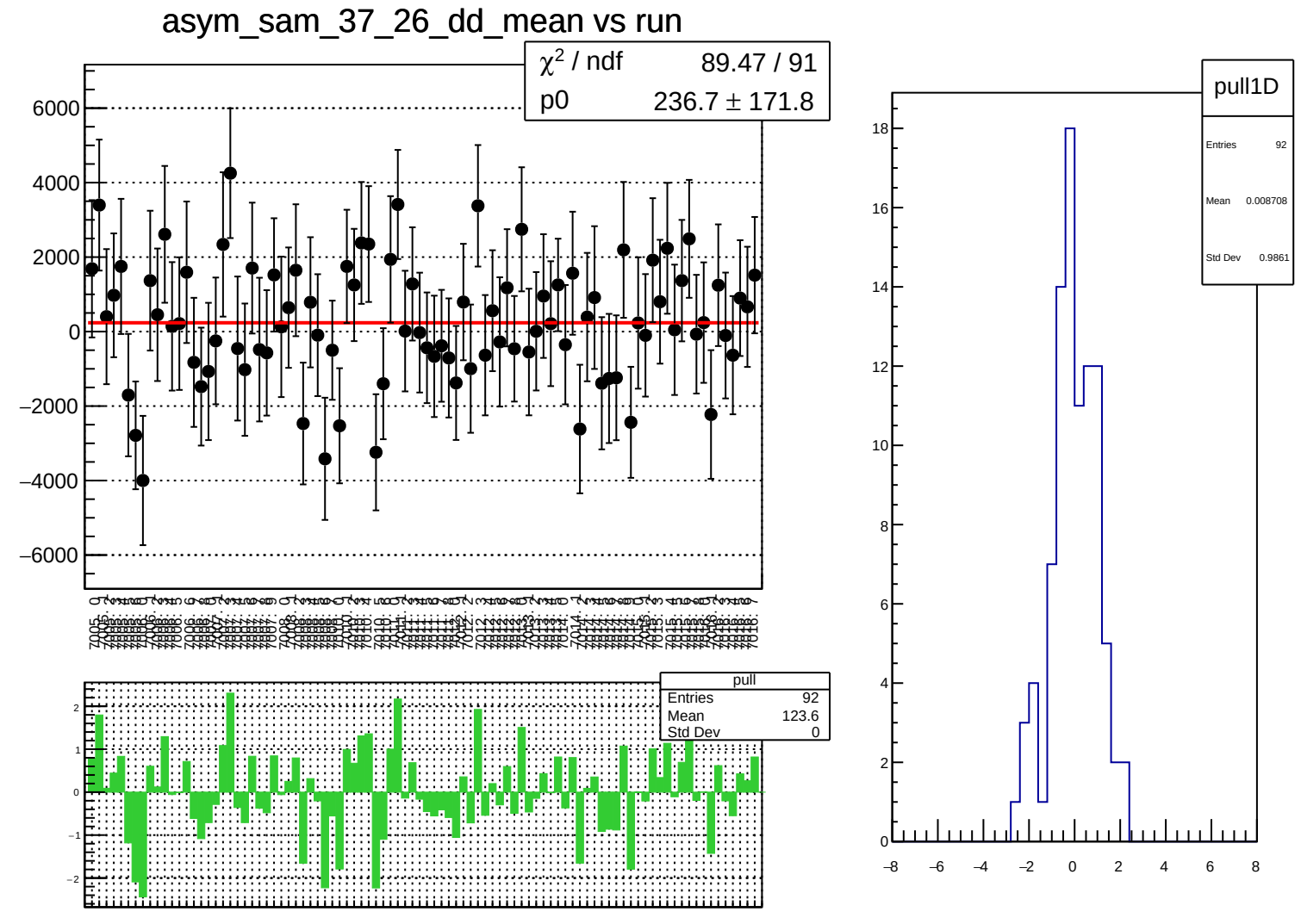

eigen_dit_asym_sam_37_26_dd_mean vs run
$\chi^2$ / ndf 88.83 / 91
p0 103.1 ± 51.53
pull
Entries 92
Mean 615.8
Std Dev 0
pull1D
Entries 92
Mean 0.004892
Std Dev 0.9826

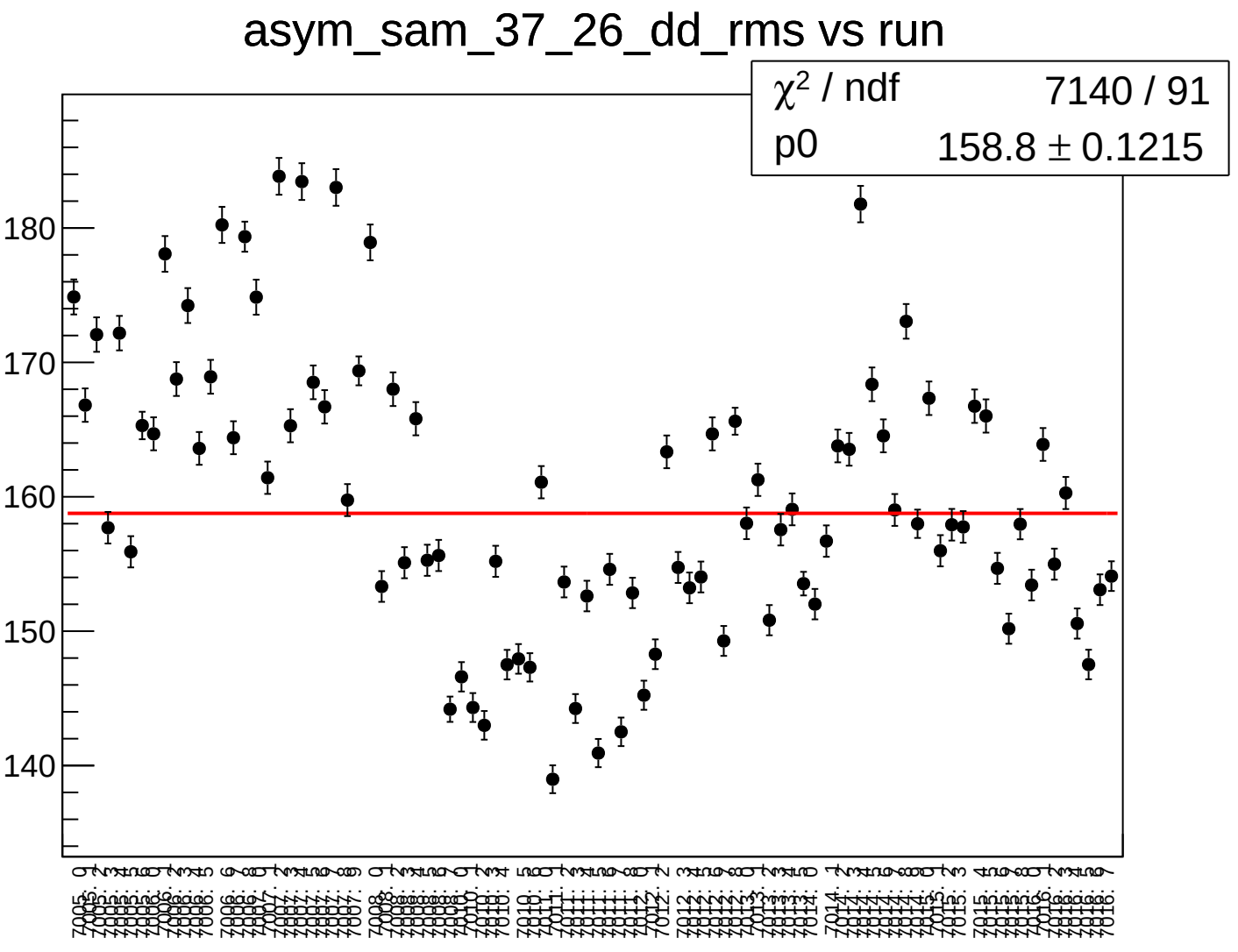

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1143 / 91
p0 47.7 ± 0.03643
51
50
49
48
47
46
45

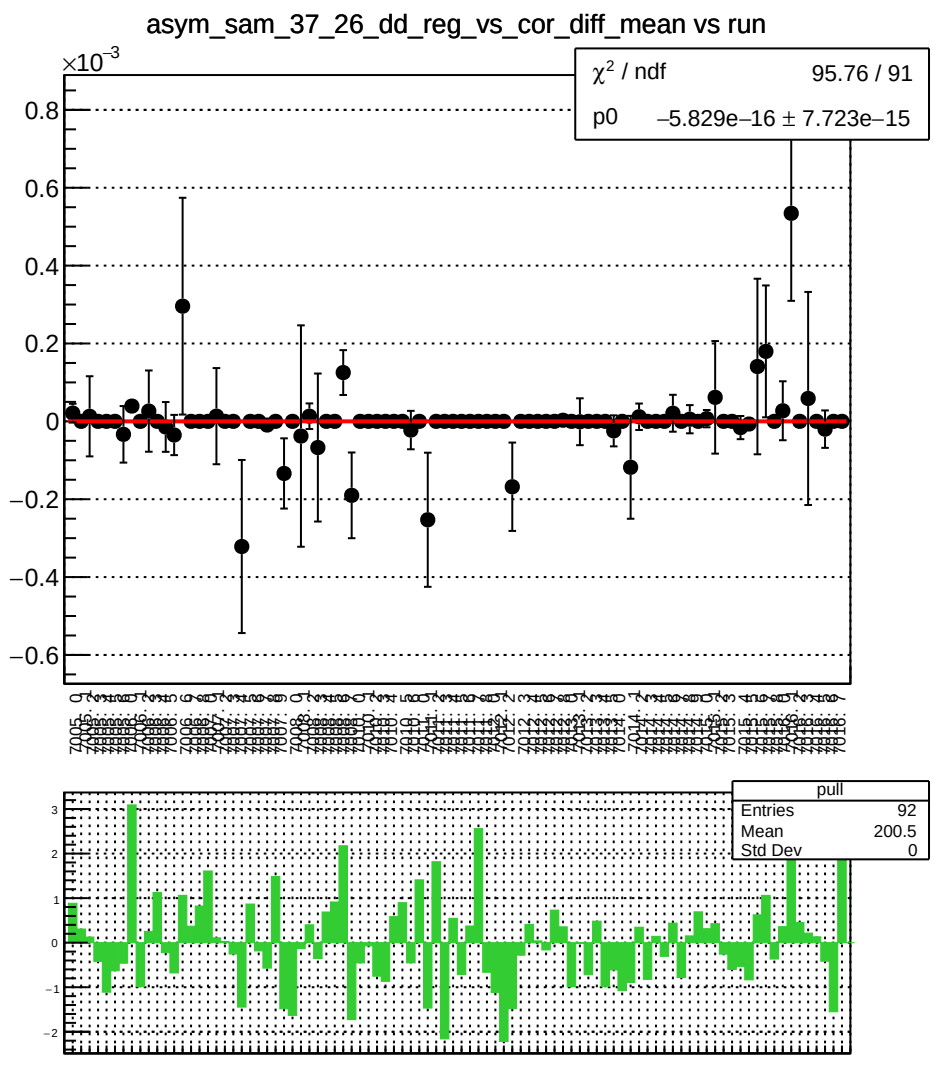

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 88 / 91
p0 −142.6 ± 171.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 7.266
Std Dev 71.46
3
2
1
0
−1
−2

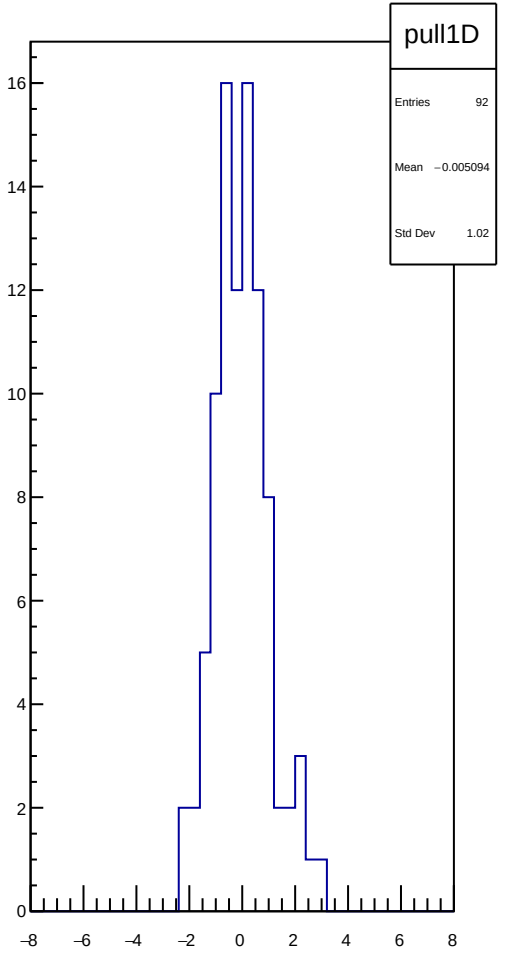

pull1D
Entries 92
Mean −0.004922
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

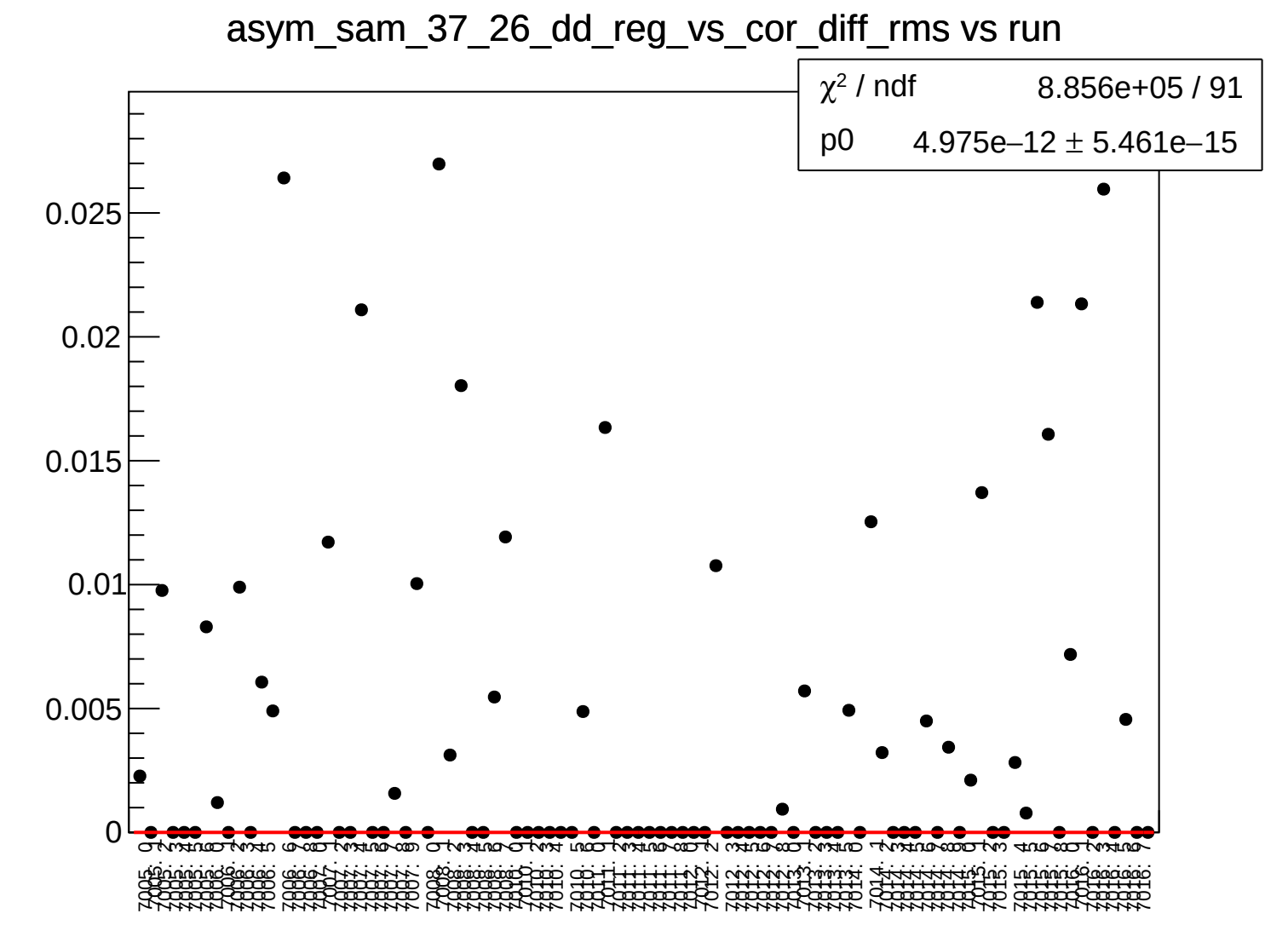

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6493 / 91
p0 158.8 ± 0.1215
190
180
170
160
150
140

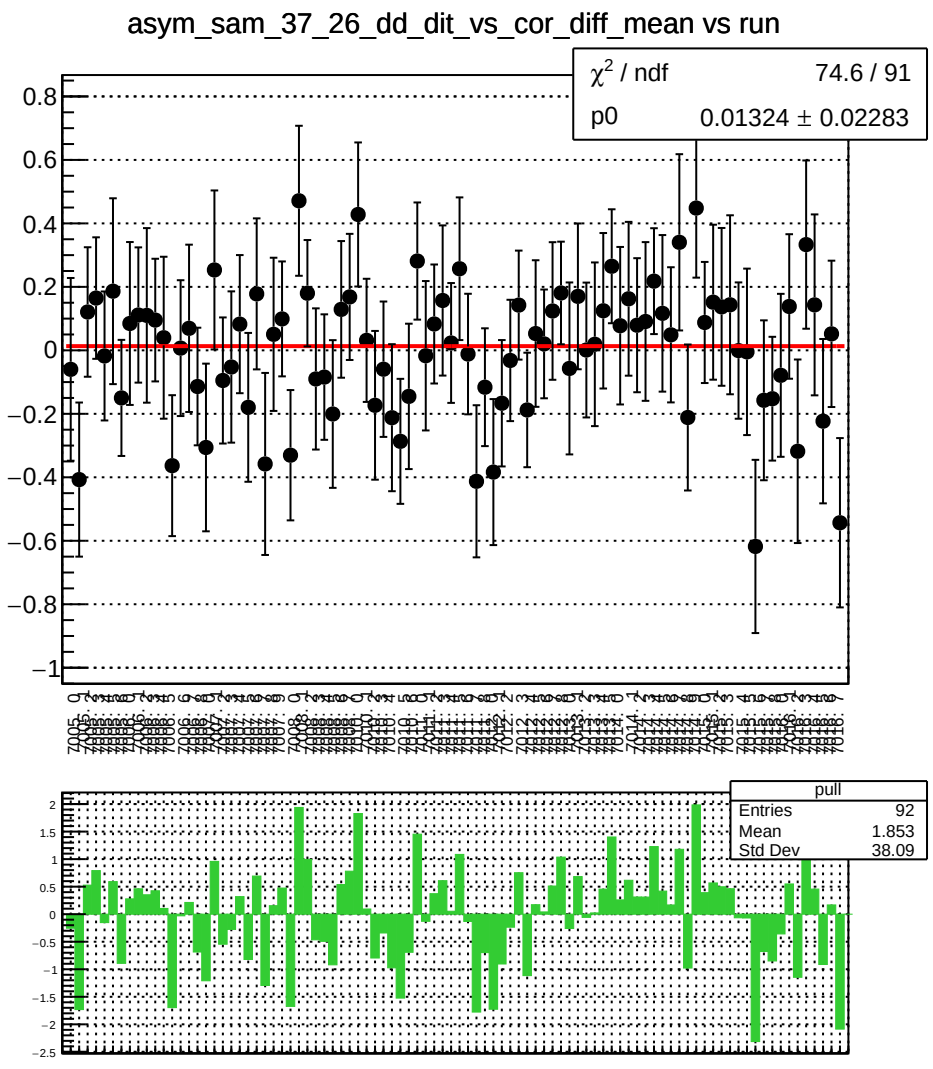

asym_sam_37_26_dd_mean vs run
χ² / ndf 89.47 / 91
p0 236.7 ± 171.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 123.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.008708
Std Dev 0.9861
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

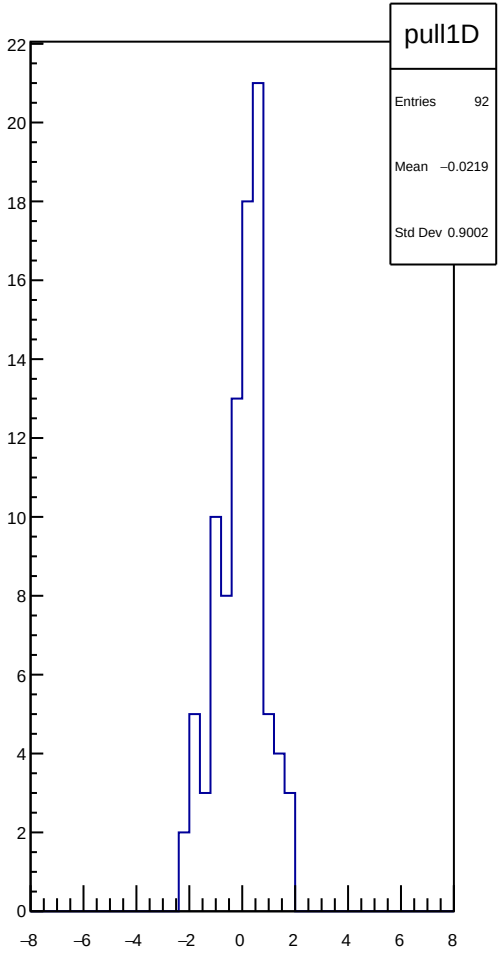

asym_sam_37_26_dd_rms vs run
χ² / ndf 7140 / 91
p0 158.8 ± 0.1215
180
170
160
150
140

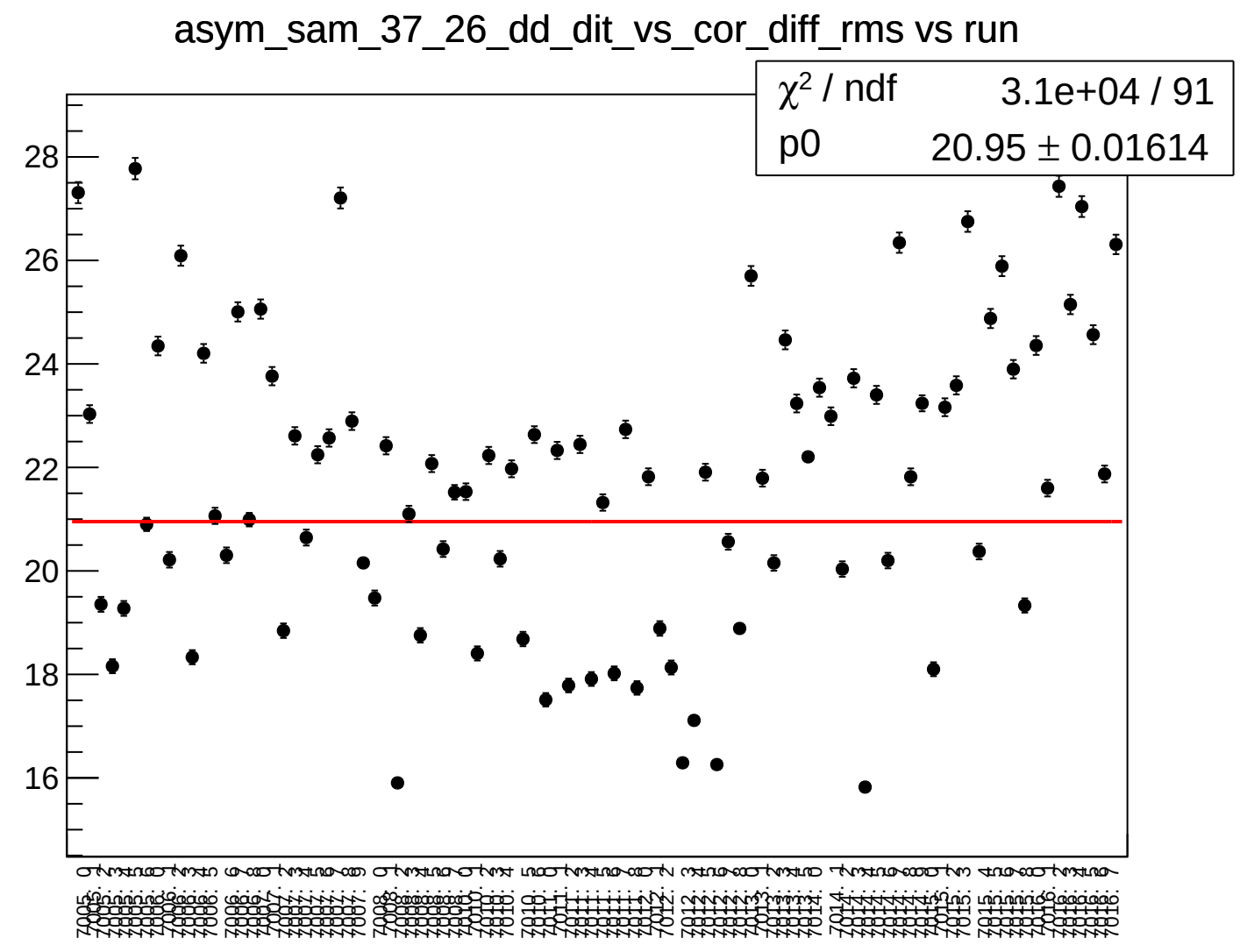

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 95.76 / 91
p0 −5.829e−16 ± 7.723e−15
pull
Entries 92
Mean 200.5
Std Dev 0

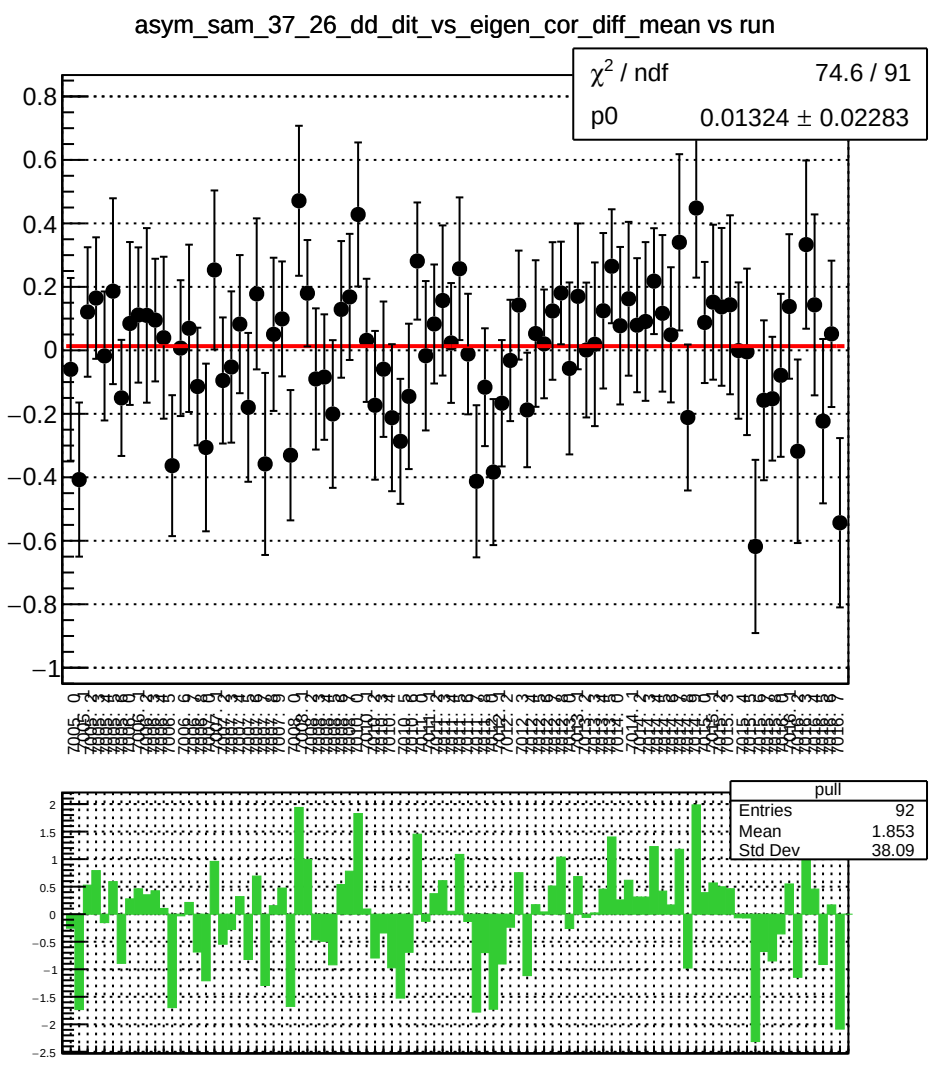

pull1D
Entries 92
Mean −0.005094
Std Dev 1.02

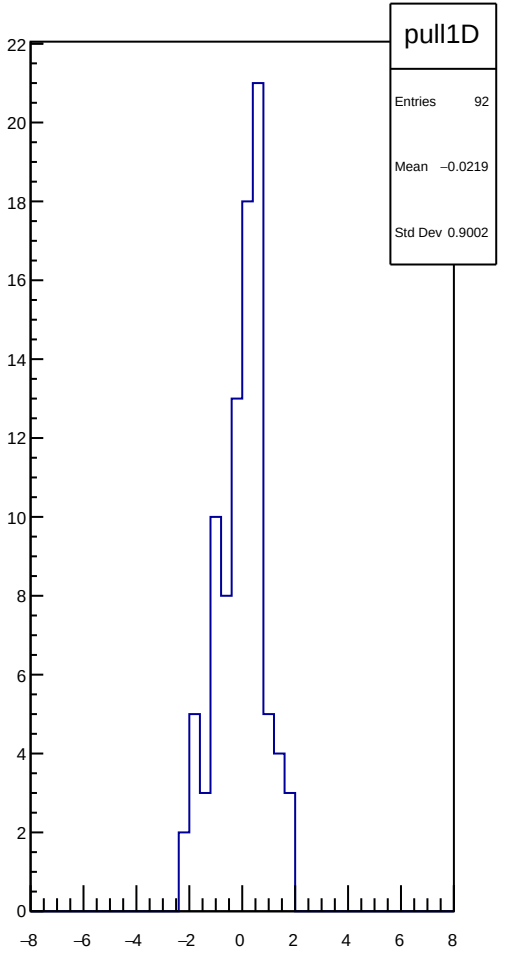

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.856e+05 / 91
p0 4.975e−12 ± 5.461e−15
0.025
0.02
0.015
0.01
0.005
0

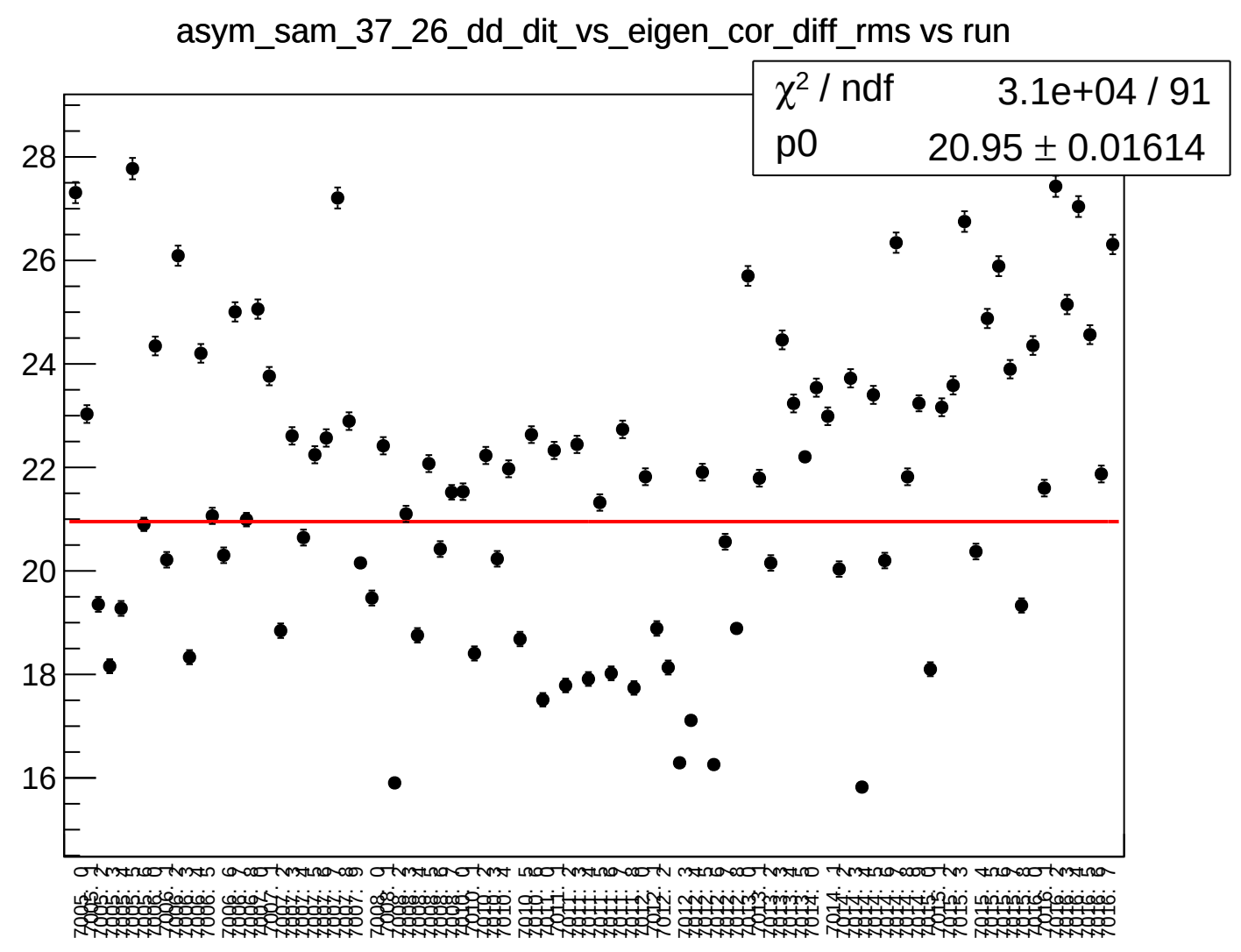

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.6 / 91
p0 0.01324 ± 0.02283
pull
Entries 92
Mean 1.853
Std Dev 38.09

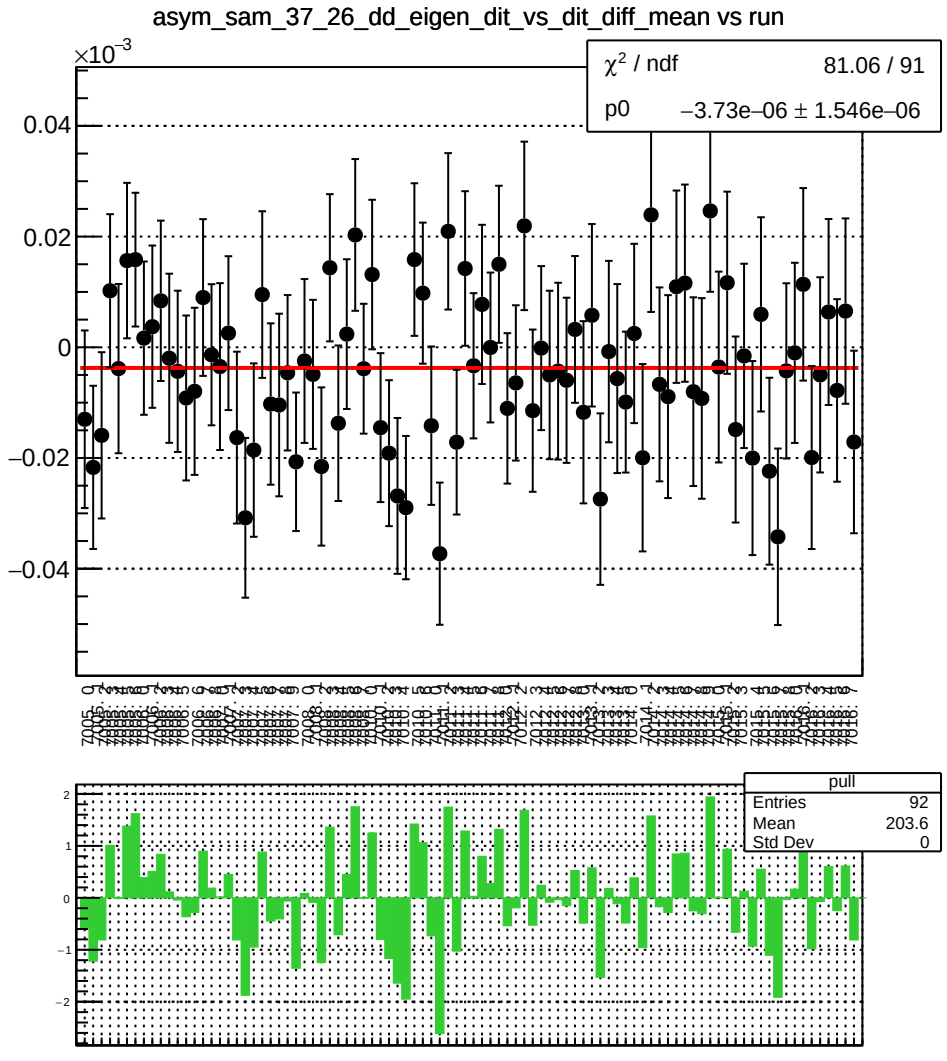

pull1D
Entries 92
Mean −0.0219
Std Dev 0.9002

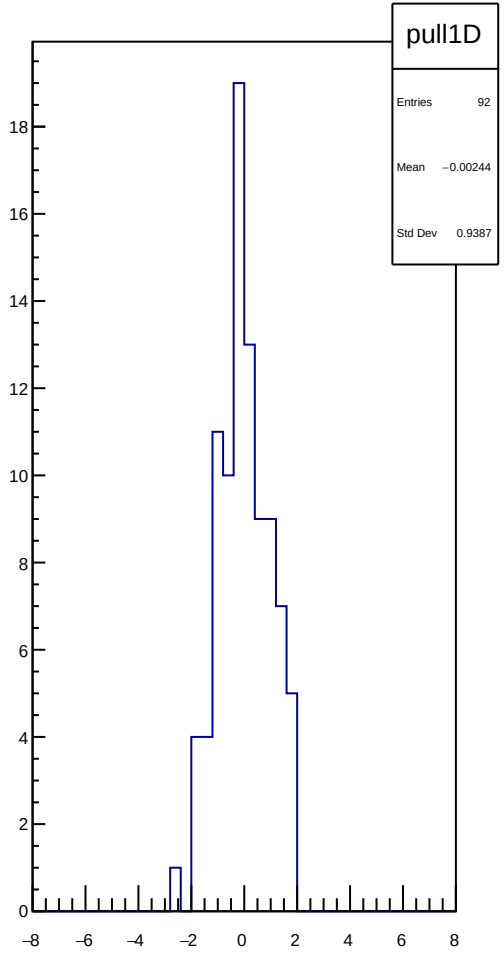

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.1e+04 / 91
p0 20.95 ± 0.01614
28
26
24
22
20
18
16

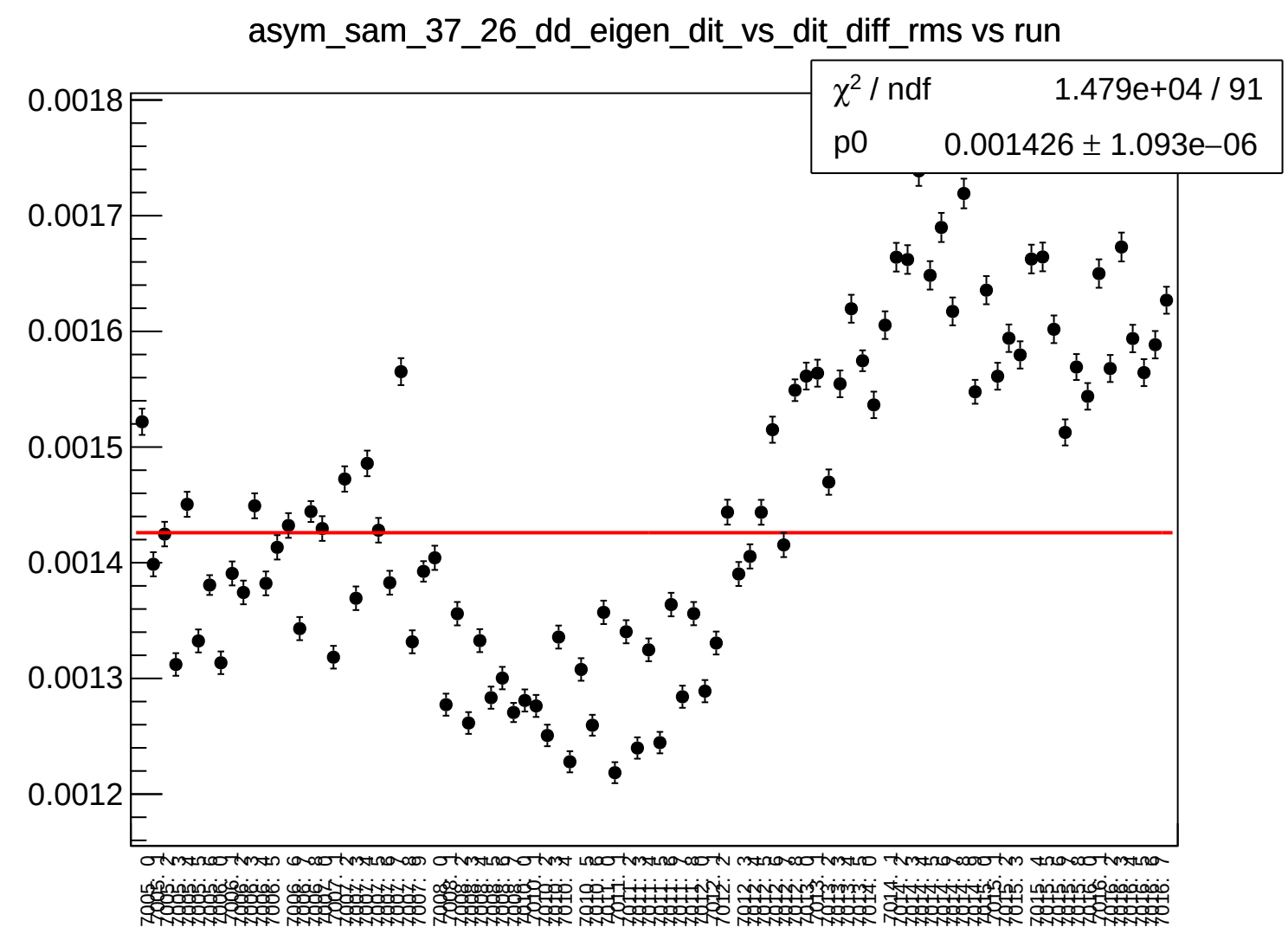

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.6 / 91
p0 0.01324 ± 0.02283
pull
Entries 92
Mean 1.853
Std Dev 38.09

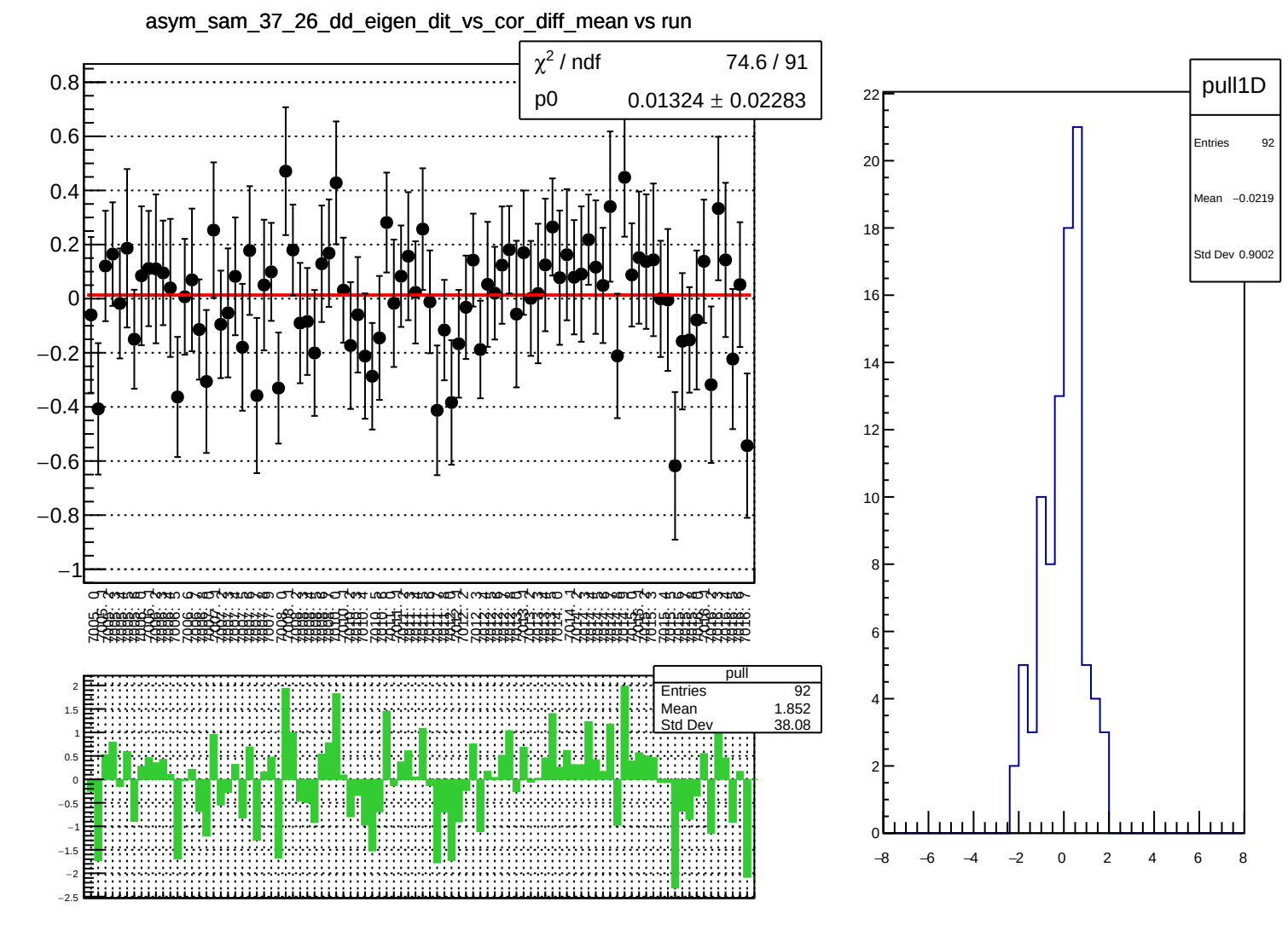

pull1D
Entries 92
Mean −0.0219
Std Dev 0.9002

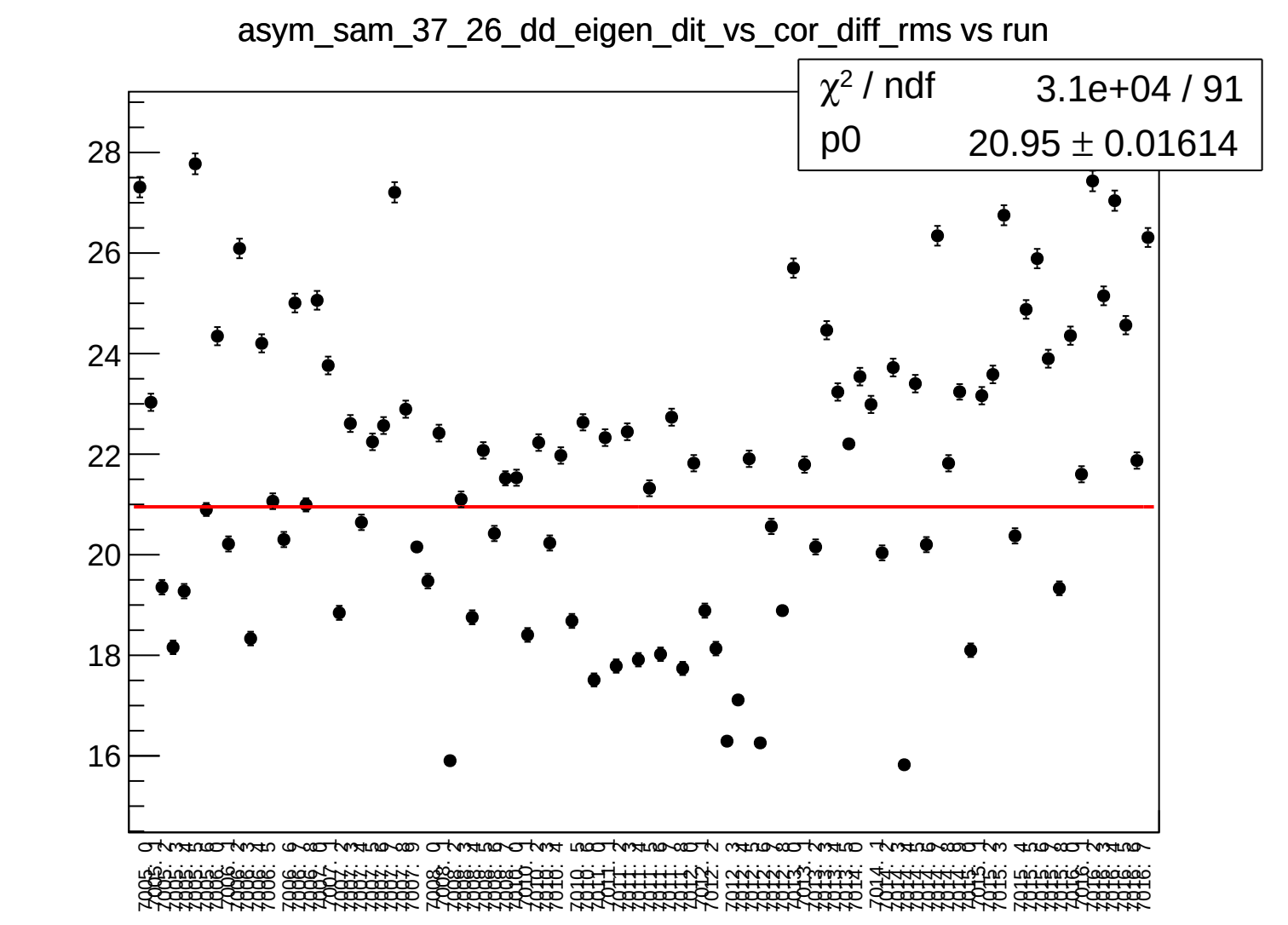

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.1e+04 / 91
p0 20.95 ± 0.01614
28
26
24
22
20
18
16

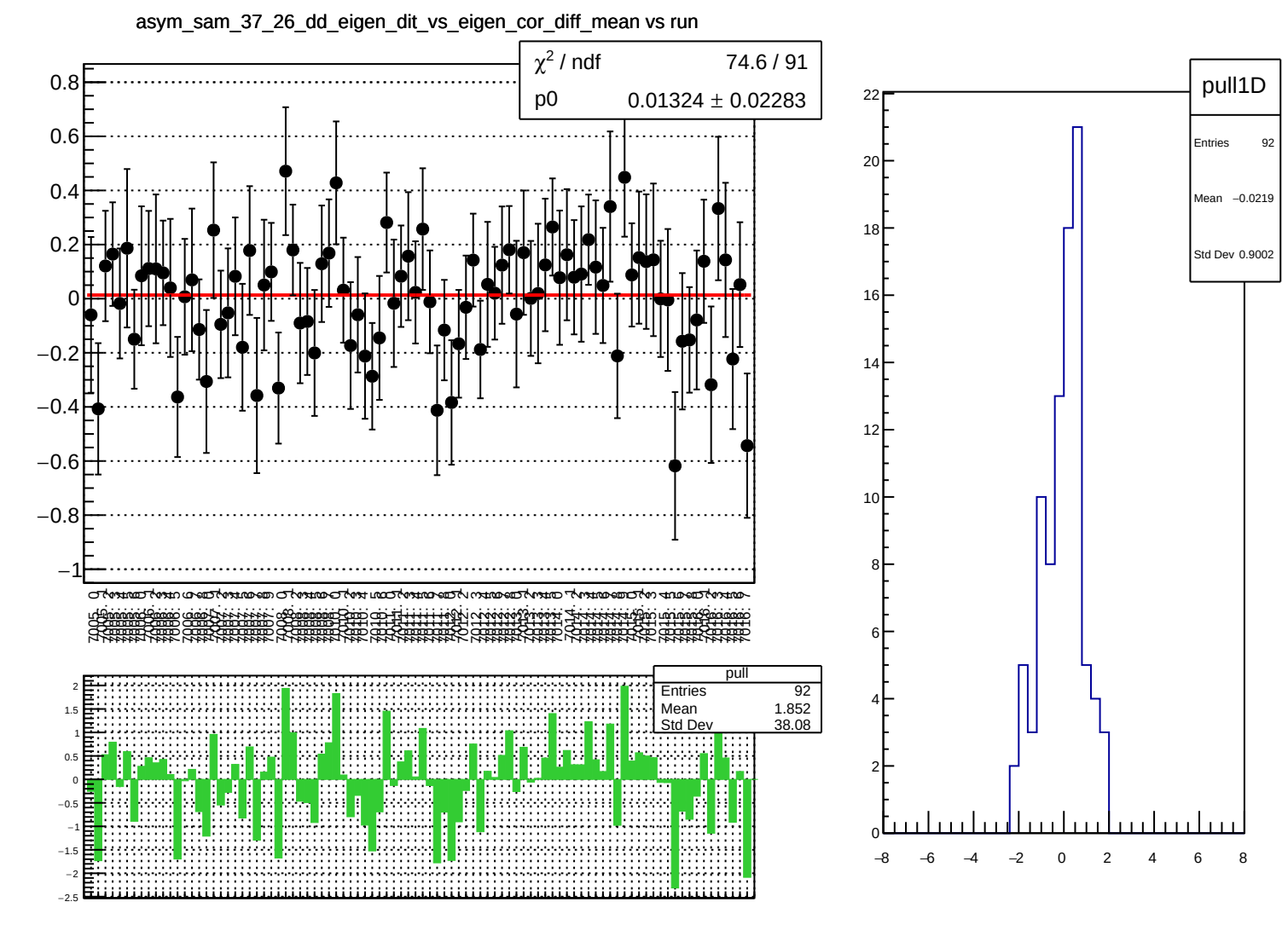

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.06 / 91
p0 −3.73e−06 ± 1.546e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 92
Mean 203.6
Std Dev 0
2
1
0
−1
−2

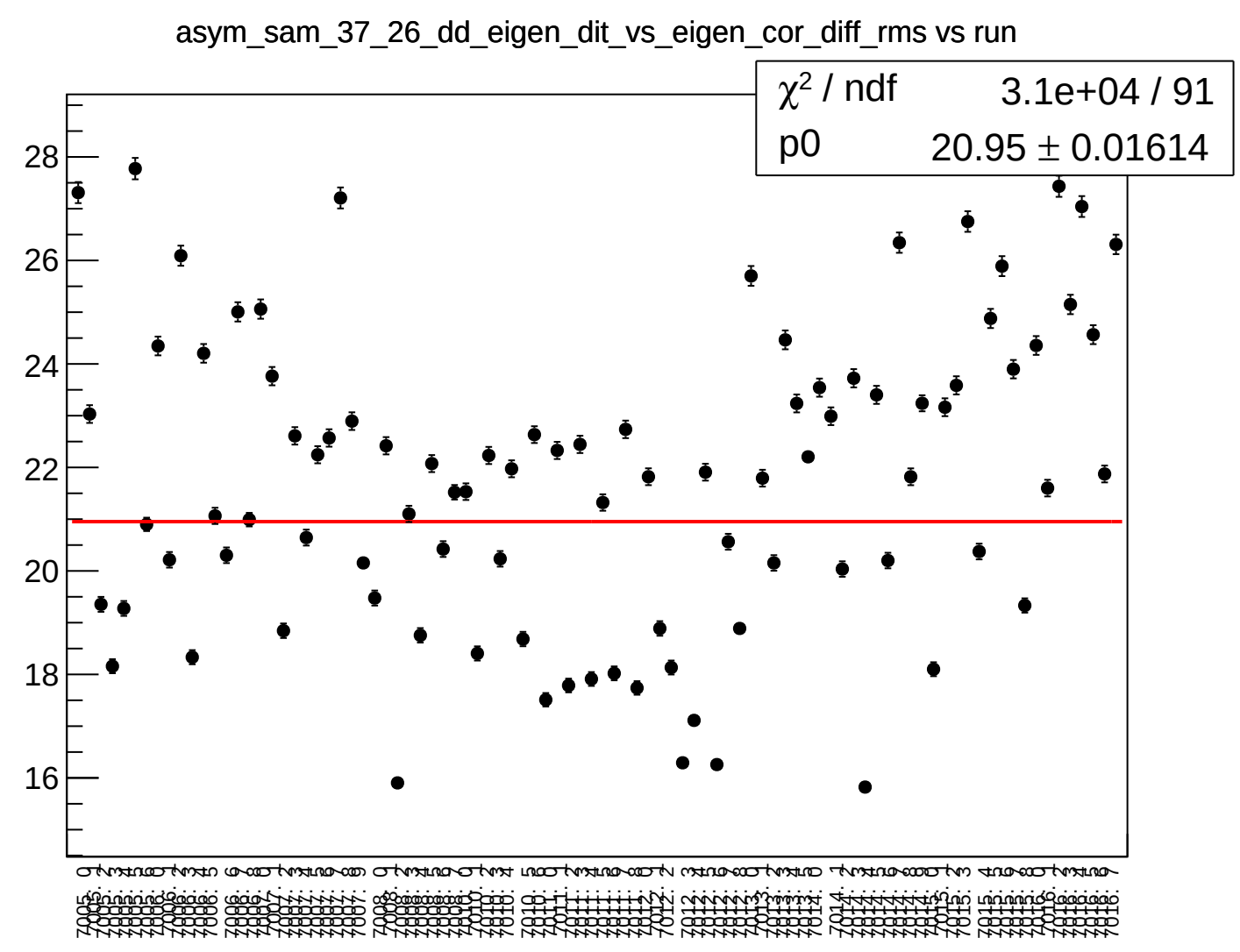

pull1D
Entries 92
Mean −0.00244
Std Dev 0.9387
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

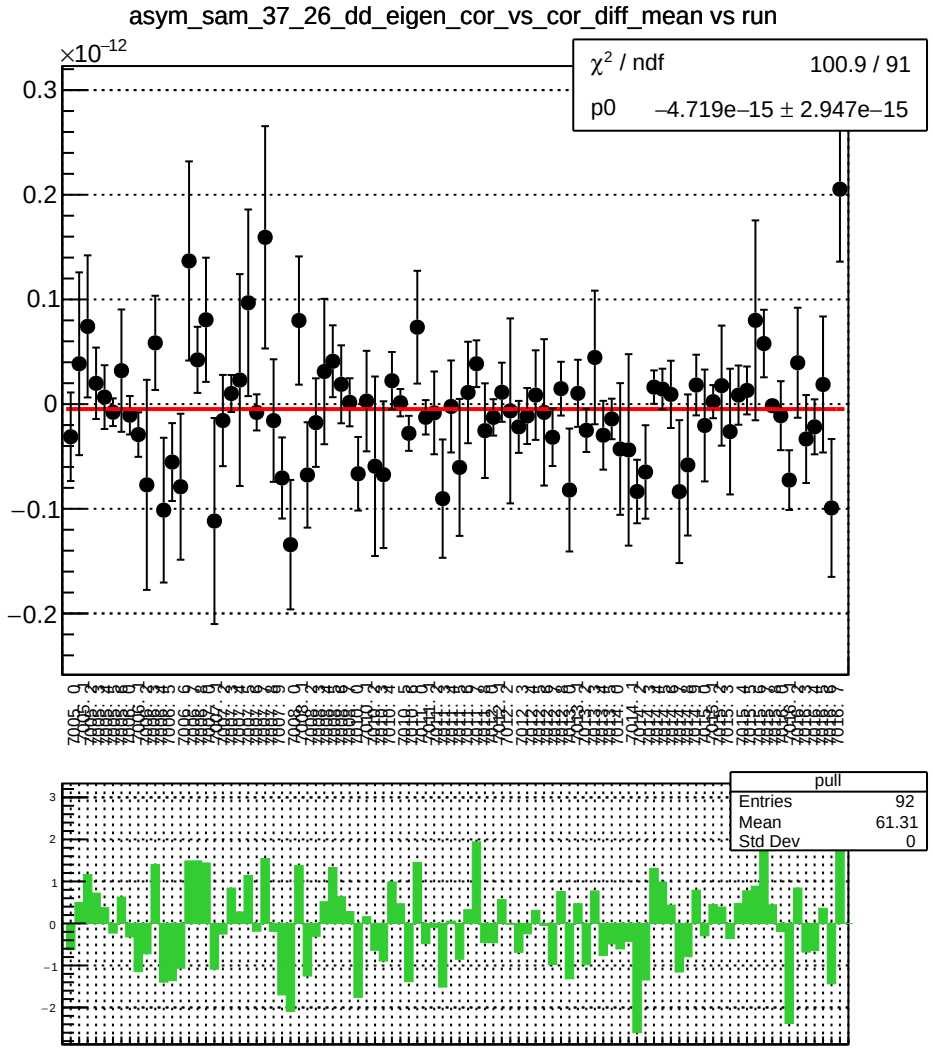

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.479e+04 / 91
p0 0.001426 ± 1.093e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

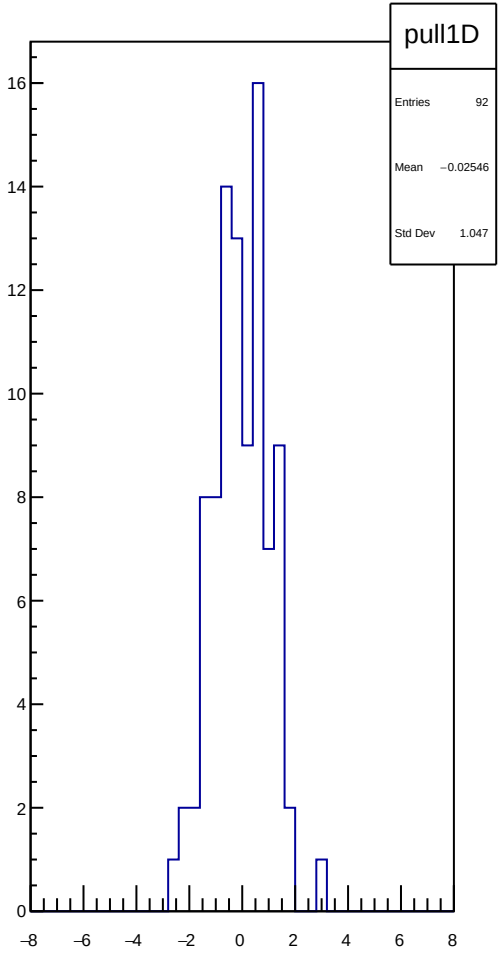

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.6 / 91
p0 0.01324 ± 0.02283
pull
Entries 92
Mean 1.852
Std Dev 38.08
pull1D
Entries 92
Mean −0.0219
Std Dev 0.9002

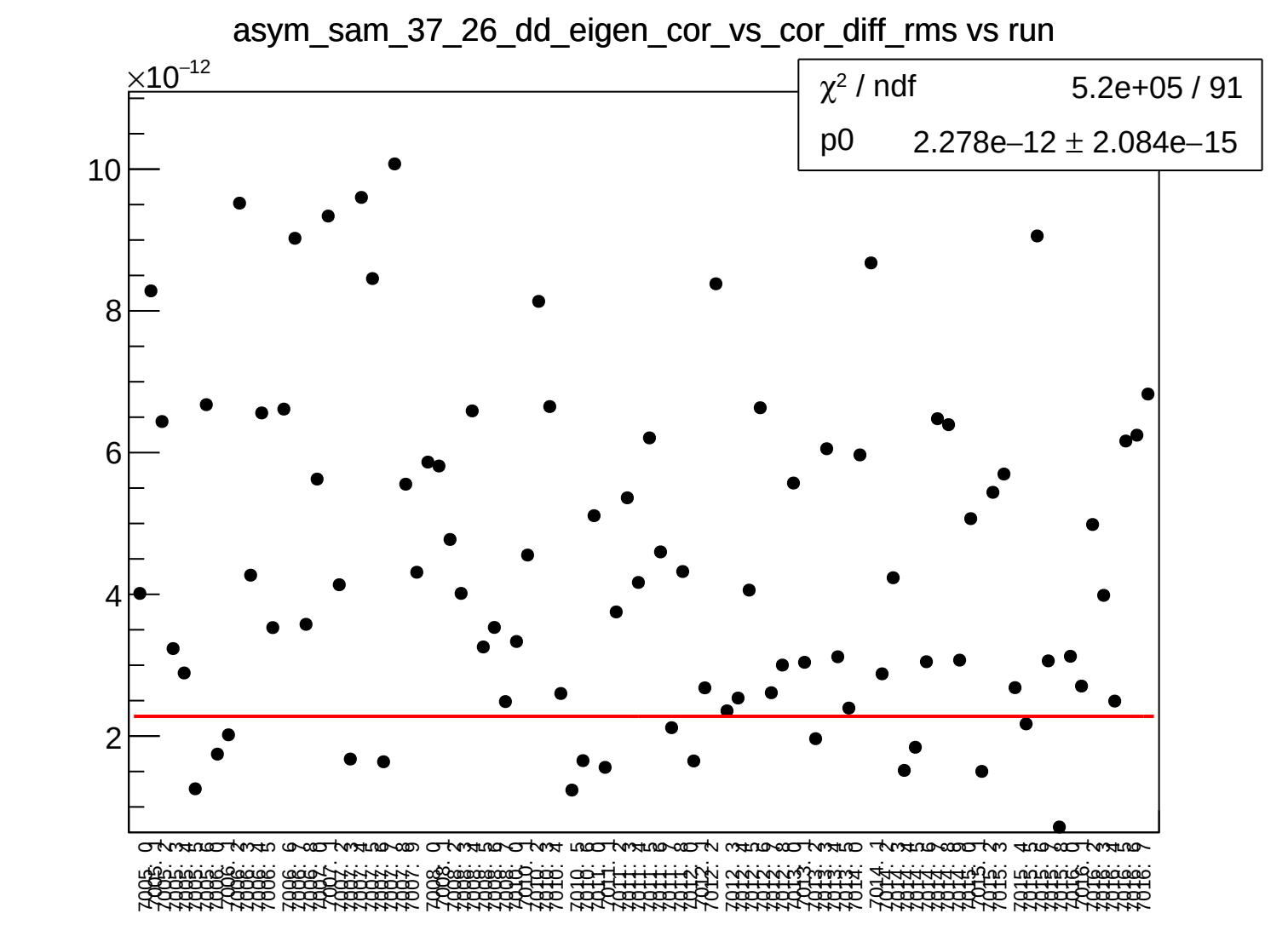

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.1e+04 / 91
p0 20.95 ± 0.01614
28
26
24
22
20
18
16

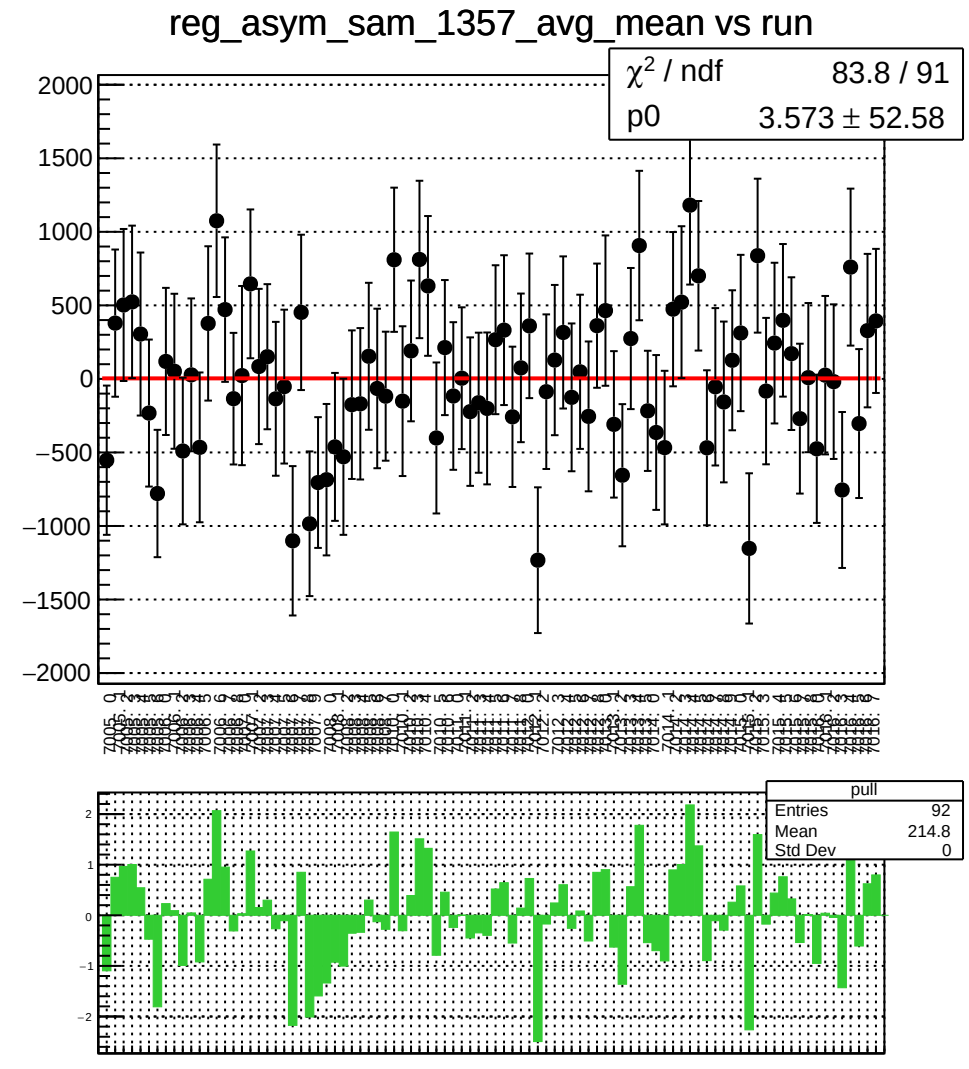

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.6 / 91
p0 0.01324 ± 0.02283
pull
Entries 92
Mean 1.852
Std Dev 38.08
pull1D
Entries 92
Mean −0.0219
Std Dev 0.9002

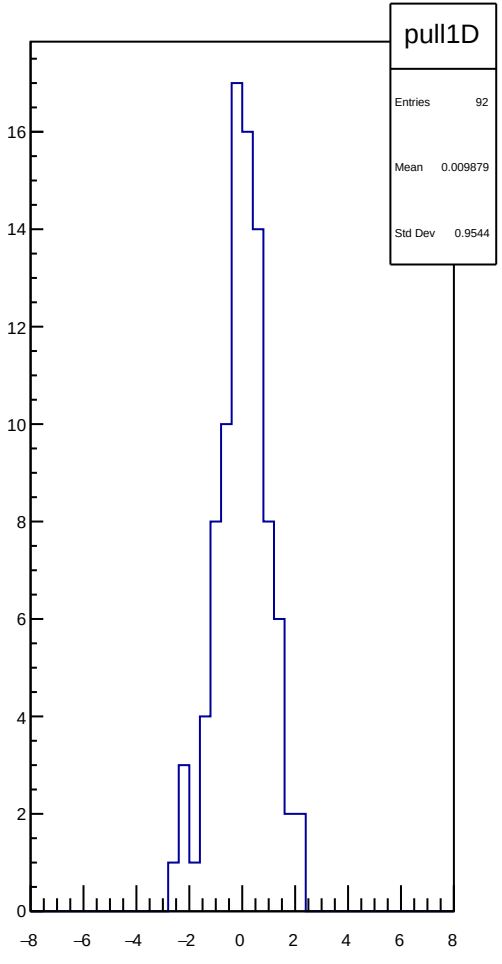

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.1e+04 / 91
p0 20.95 ± 0.01614
28
26
24
22
20
18
16

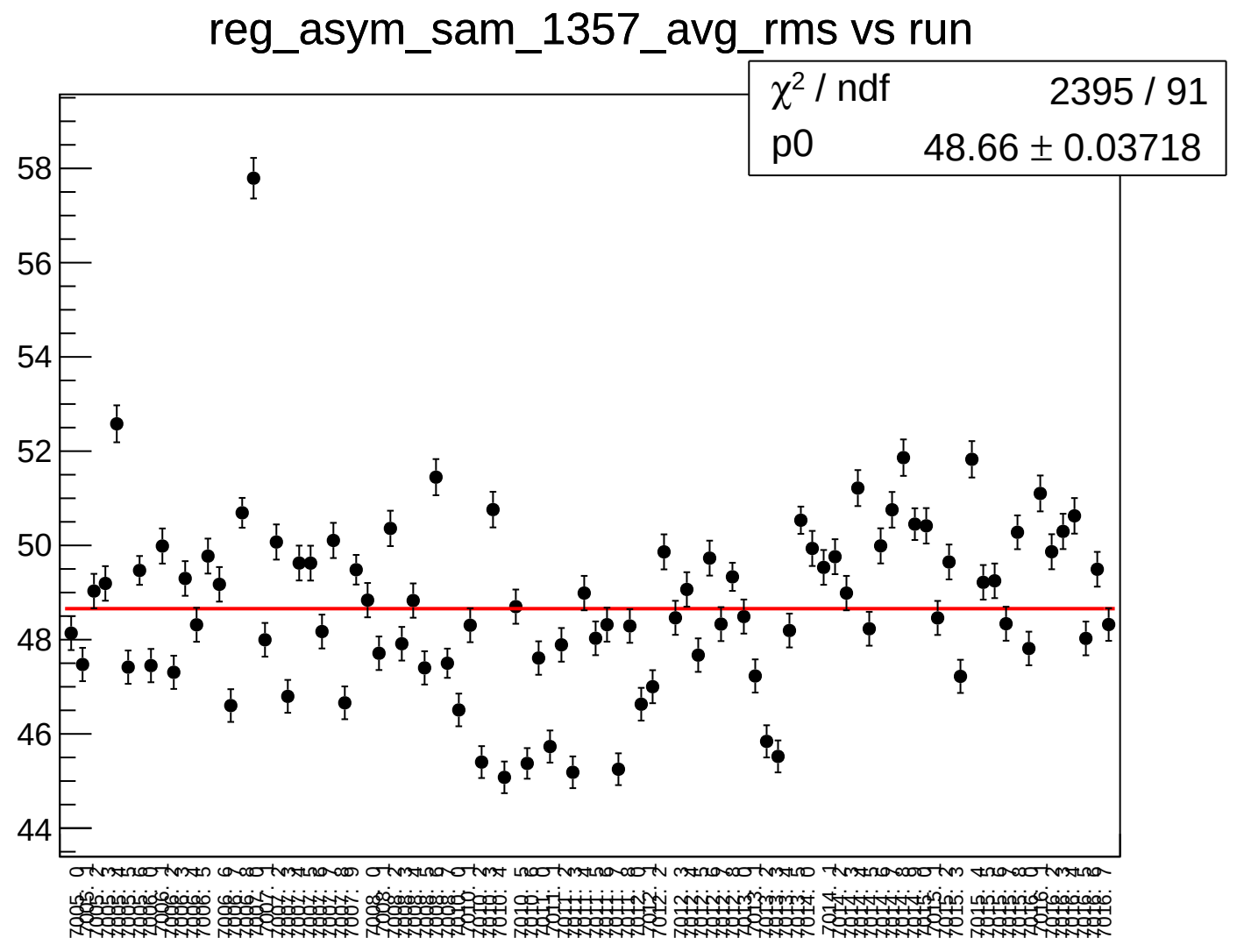

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.9 / 91
p0 −4.719e−15 ± 2.947e−15
pull
Entries 92
Mean 61.31
Std Dev 0

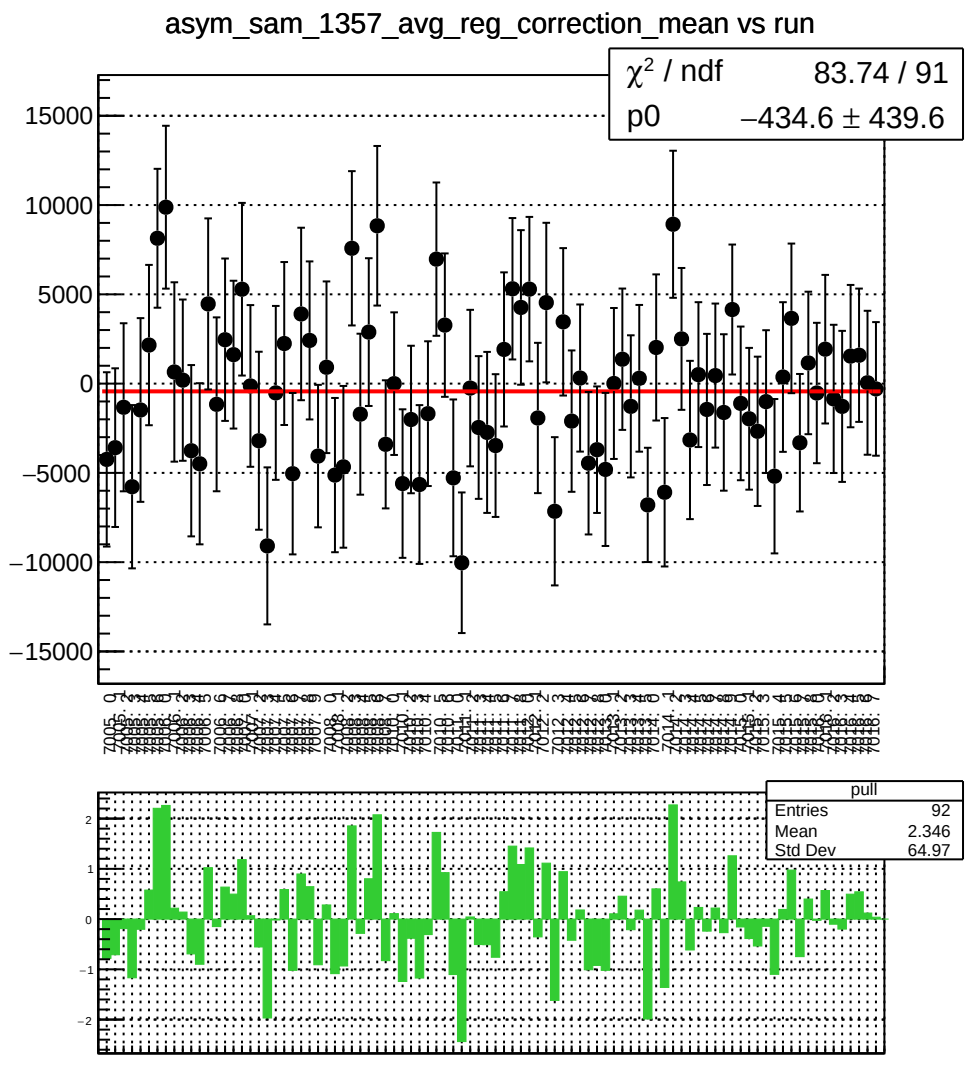

pull1D
Entries 92
Mean −0.02546
Std Dev 1.047

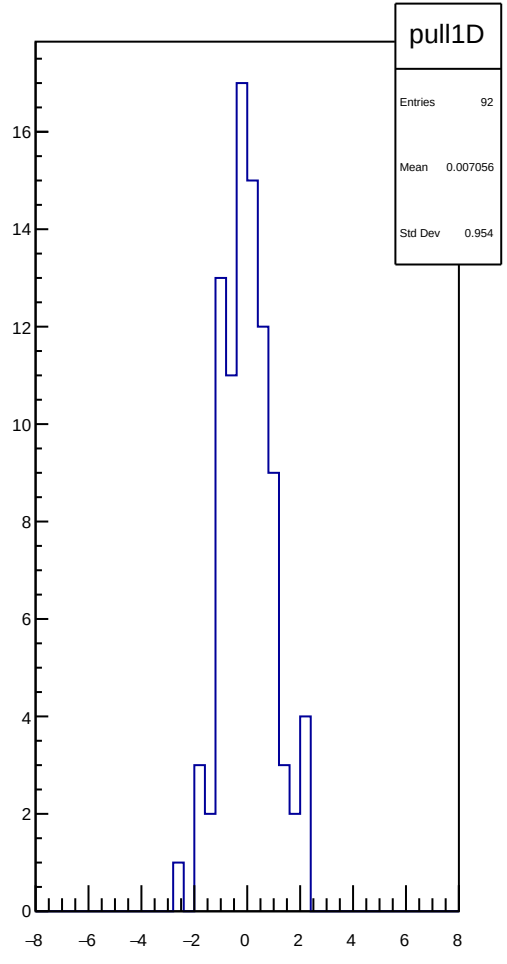

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.2e+05 / 91
p0 2.278e−12 ± 2.084e−15
10
8
6
4
2

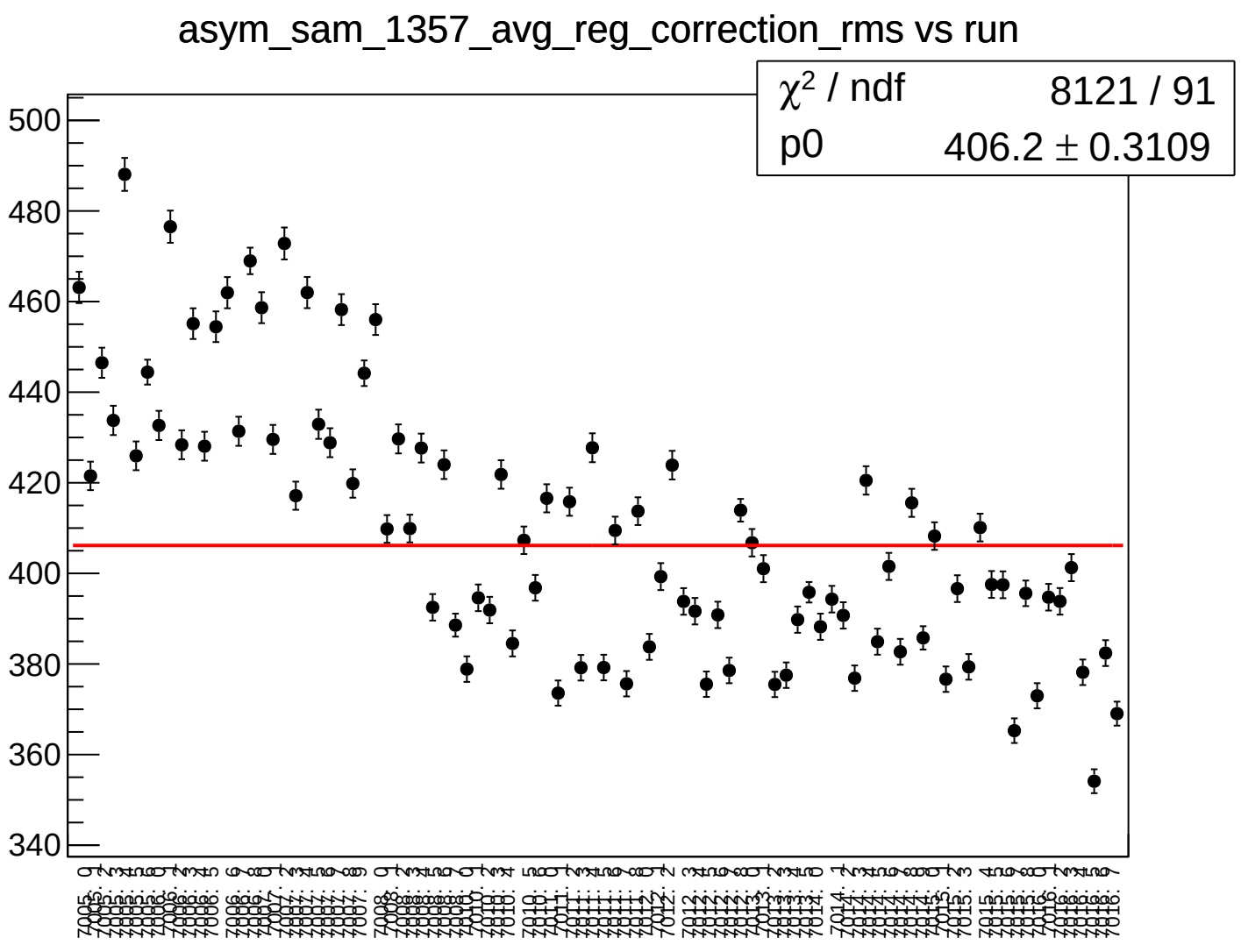

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 83.8 / 91
p0 3.573 ± 52.58
pull
Entries 92
Mean 214.8
Std Dev 0

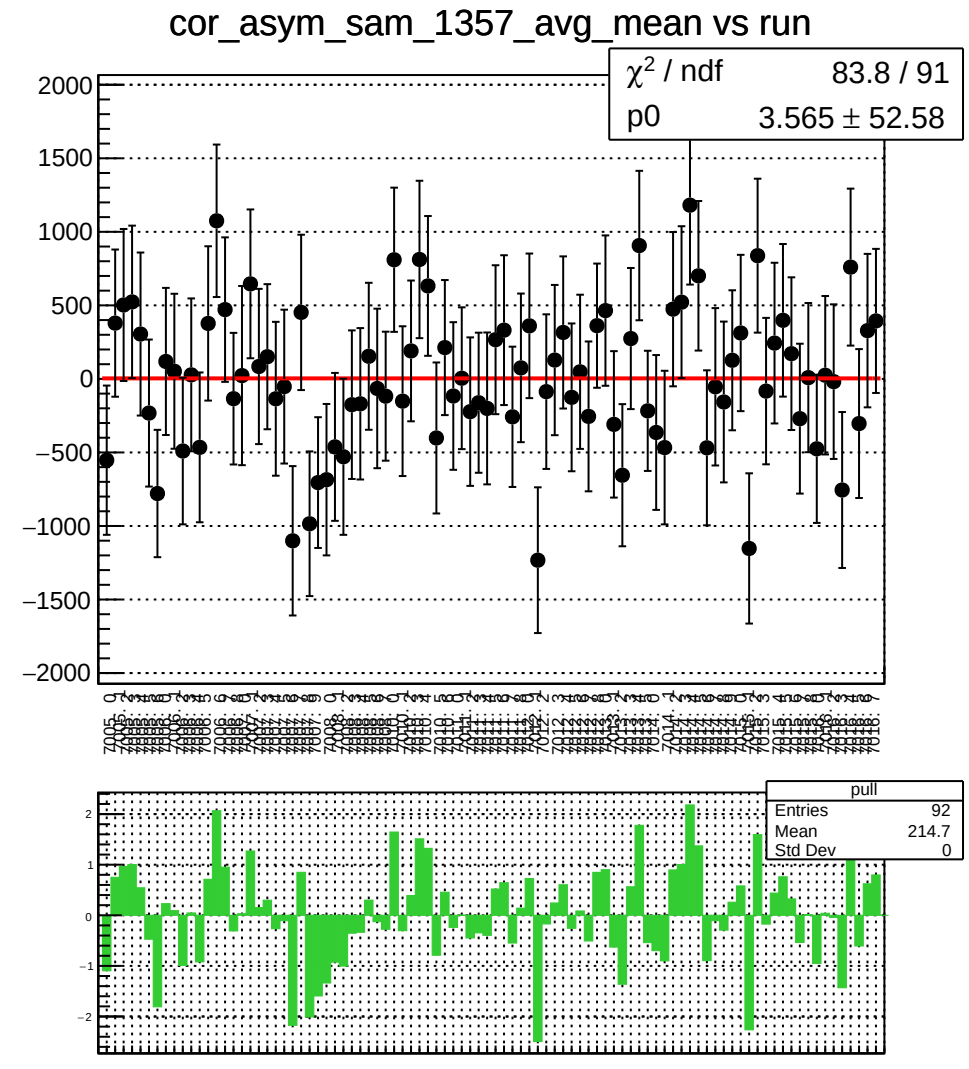

pull1D
Entries 92
Mean 0.009879
Std Dev 0.9544

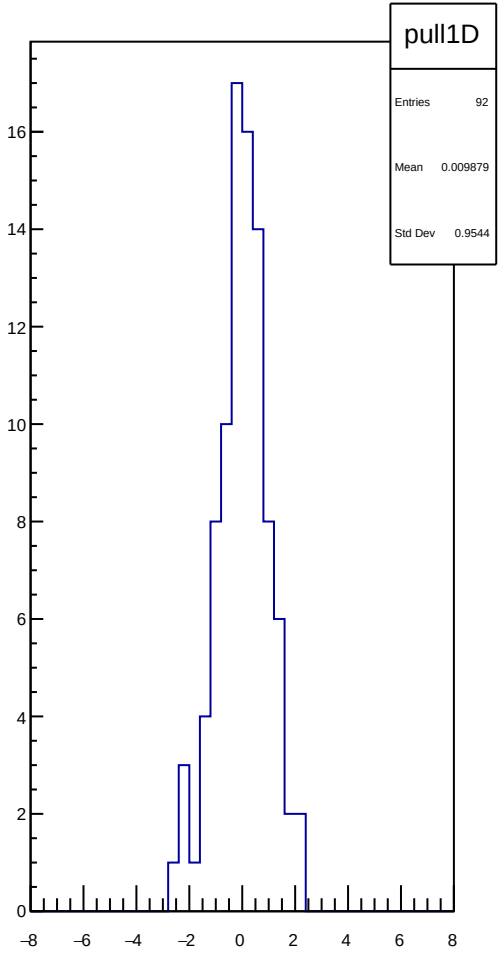

reg_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 2395 / 91
p0 48.66 ± 0.03718
58
56
54
52
50
48
46
44

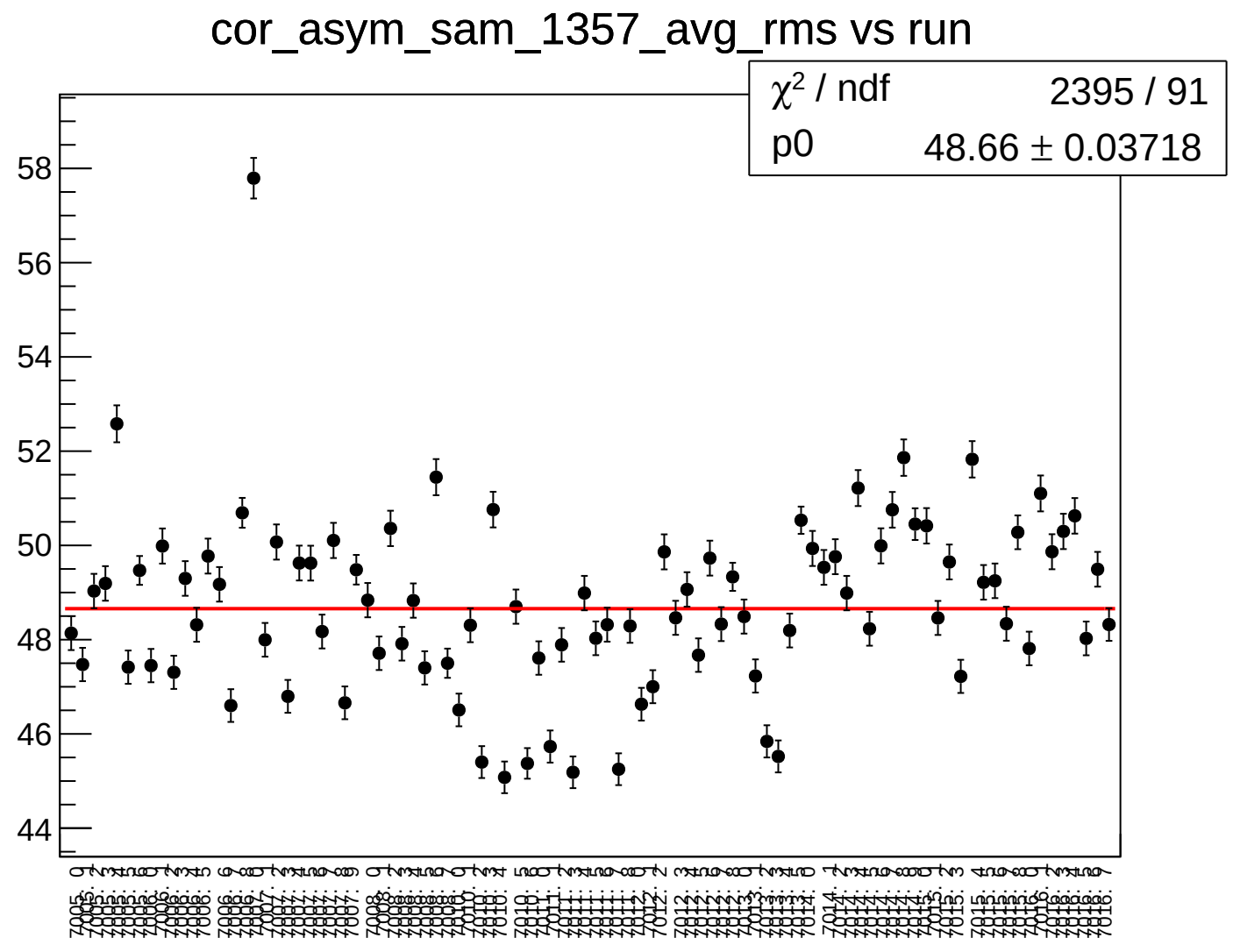

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 83.74 / 91
p0 −434.6 ± 439.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 2.346
Std Dev 64.97
2
1
0
−1
−2

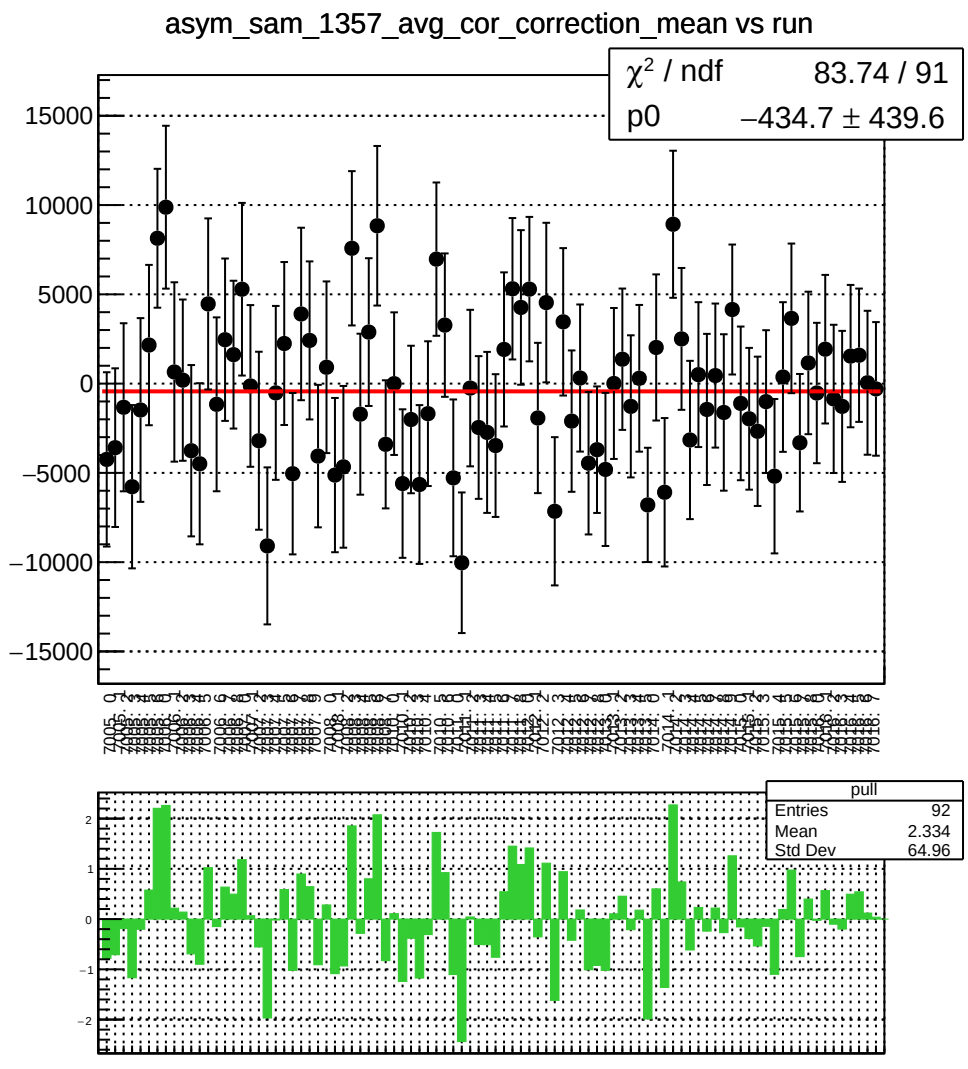

pull1D
Entries 92
Mean 0.007056
Std Dev 0.954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

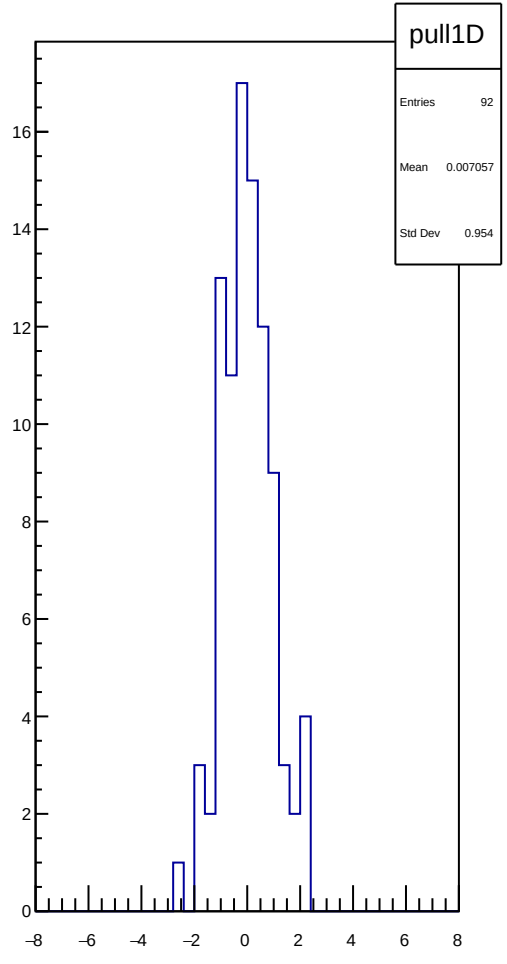

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 8121 / 91
p0 406.2 ± 0.3109
500
480
460
440
420
400
380
360
340

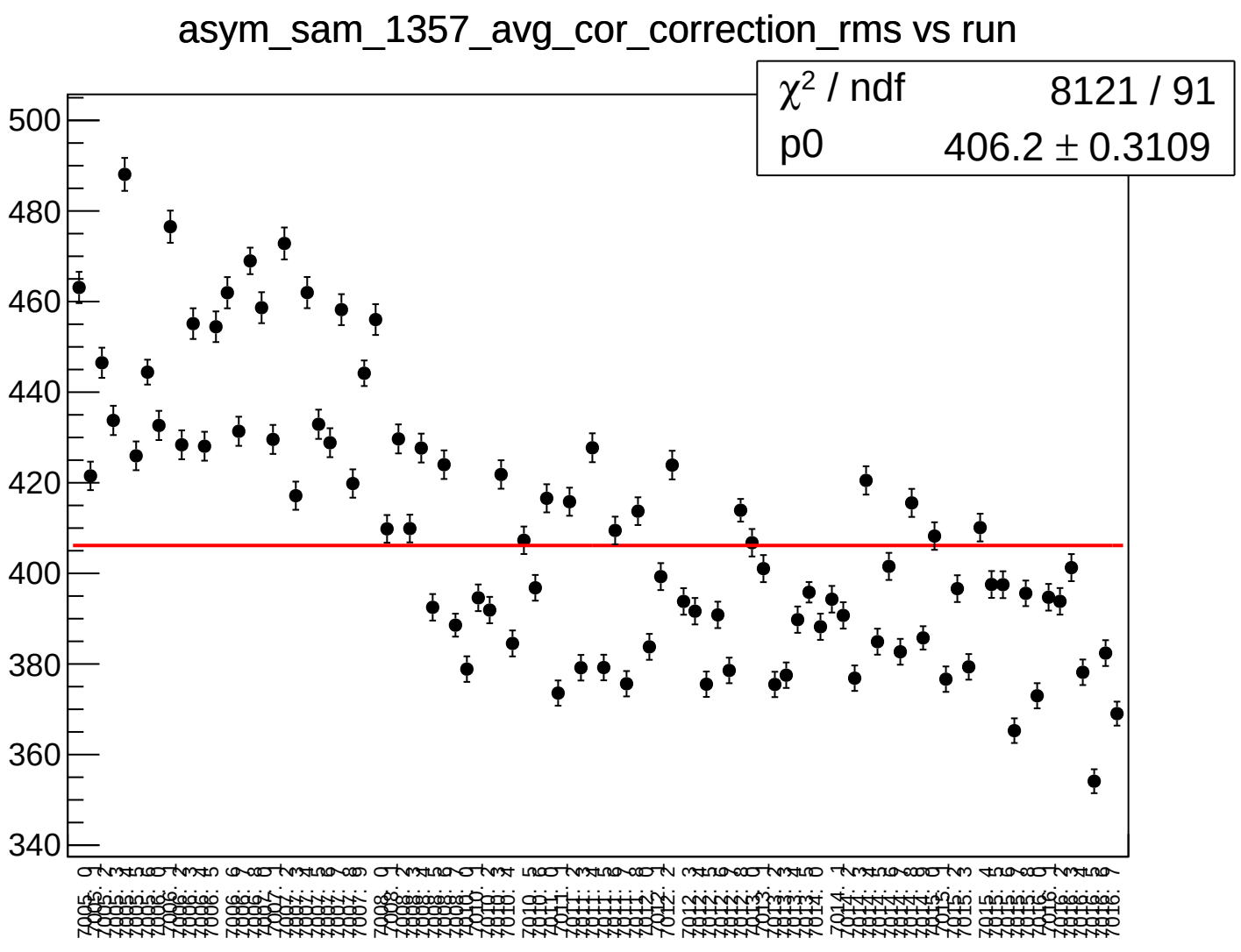

cor_asym_sam_1357_avg_mean vs run
$\chi^2$ / ndf 83.8 / 91
p0 3.565 ± 52.58
pull
Entries 92
Mean 214.7
Std Dev 0

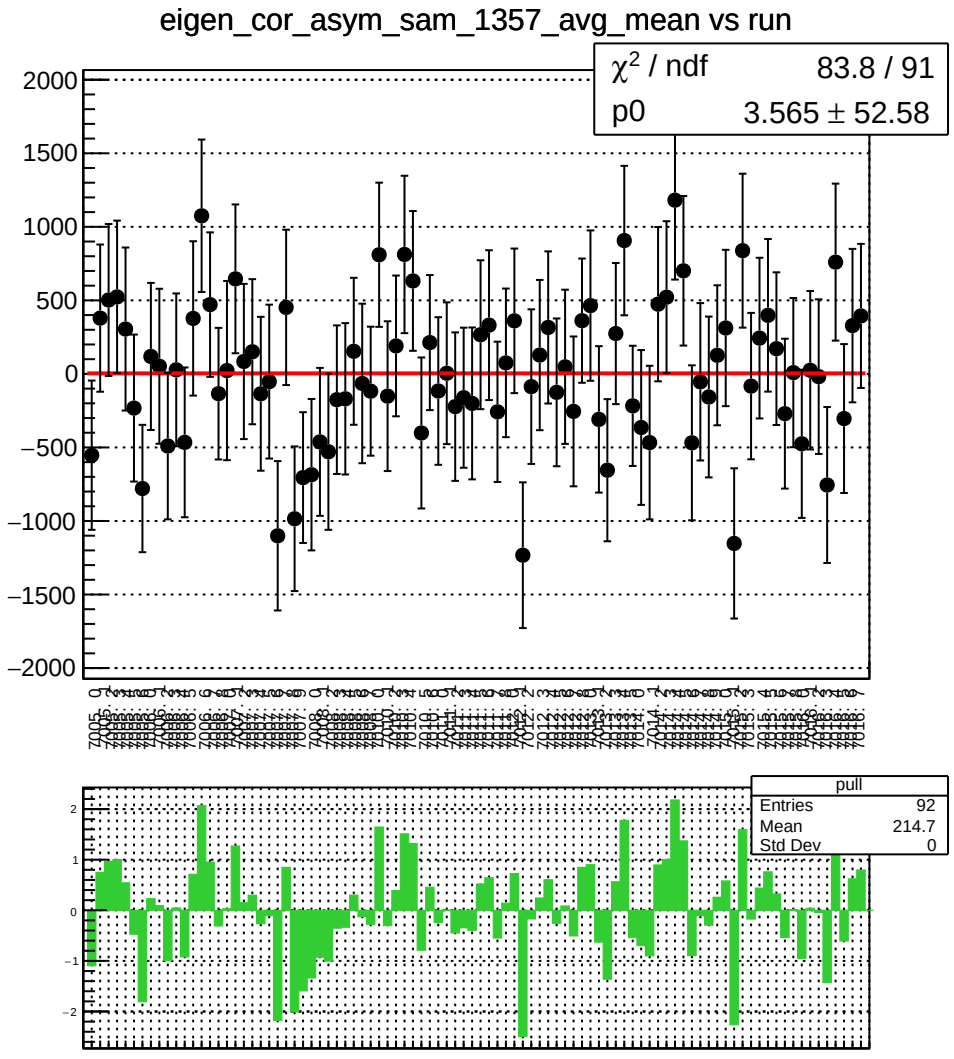

pull1D
Entries 92
Mean 0.009879
Std Dev 0.9544

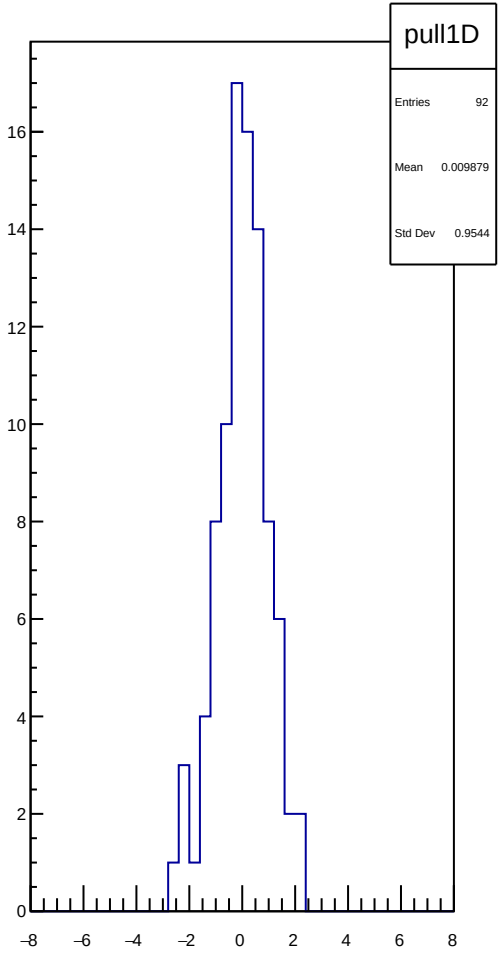

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2395 / 91
p0 48.66 ± 0.03718
58
56
54
52
50
48
46
44

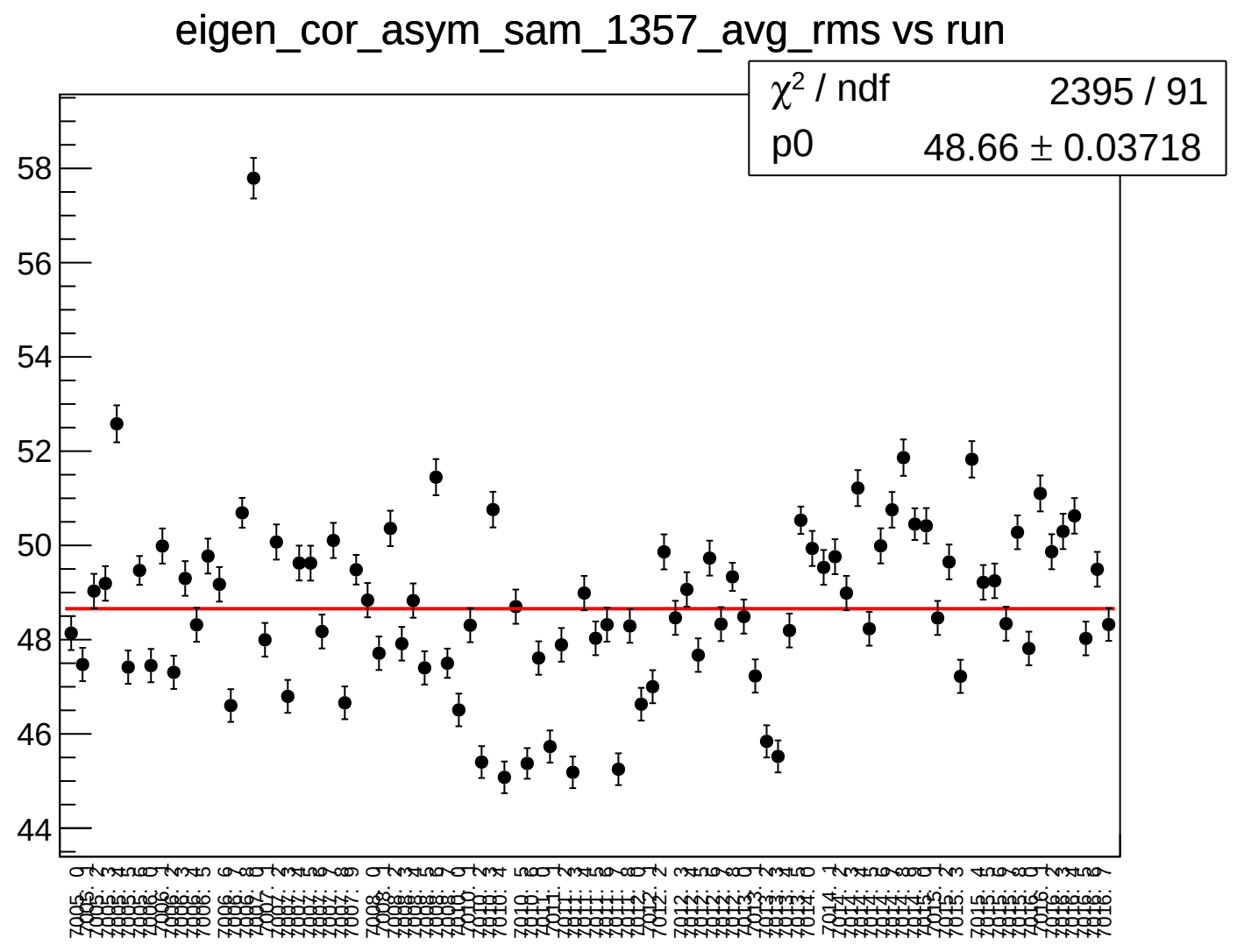

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 83.74 / 91
p0 −434.7 ± 439.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 2.334
Std Dev 64.96
2
1
0
−1
−2

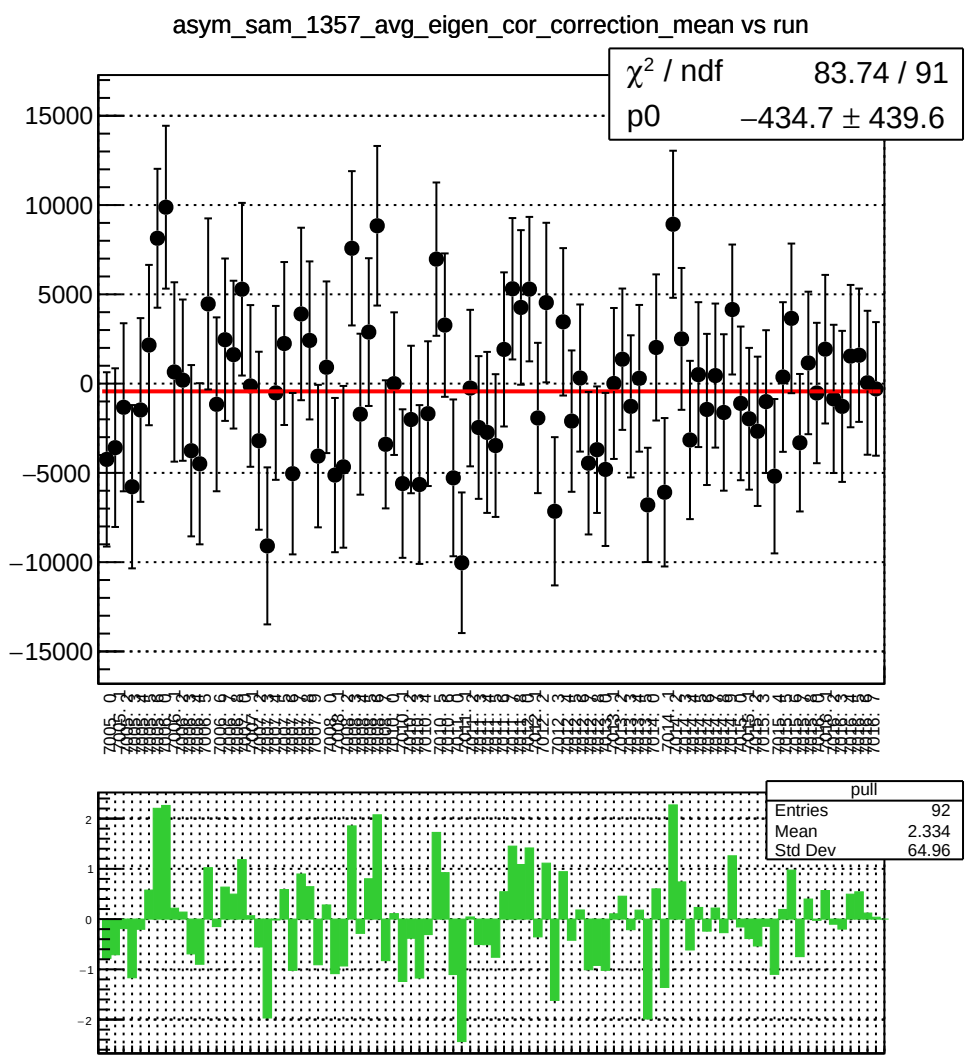

pull1D
Entries 92
Mean 0.007057
Std Dev 0.954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

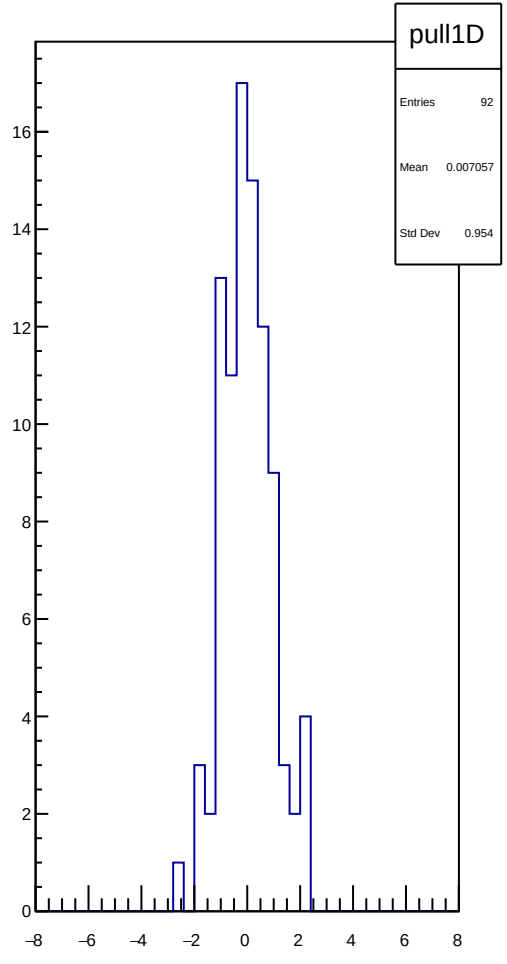

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 8121 / 91
p0 406.2 ± 0.3109
500
480
460
440
420
400
380
360
340

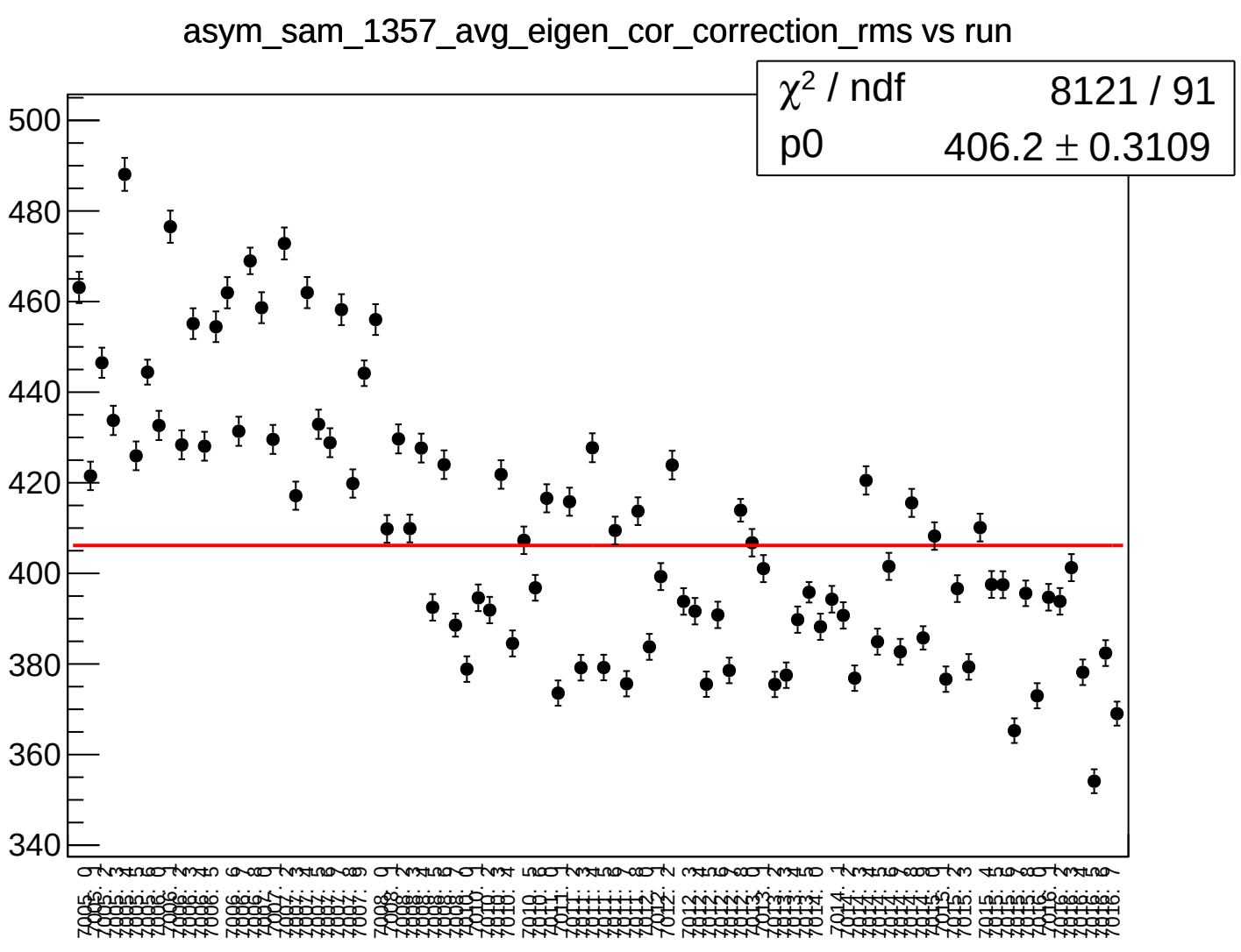

eigen_cor_asym_sam_1357_avg_mean vs run
$\chi^2$ / ndf 83.8 / 91
p0 3.565 ± 52.58
pull
Entries 92
Mean 214.7
Std Dev 0

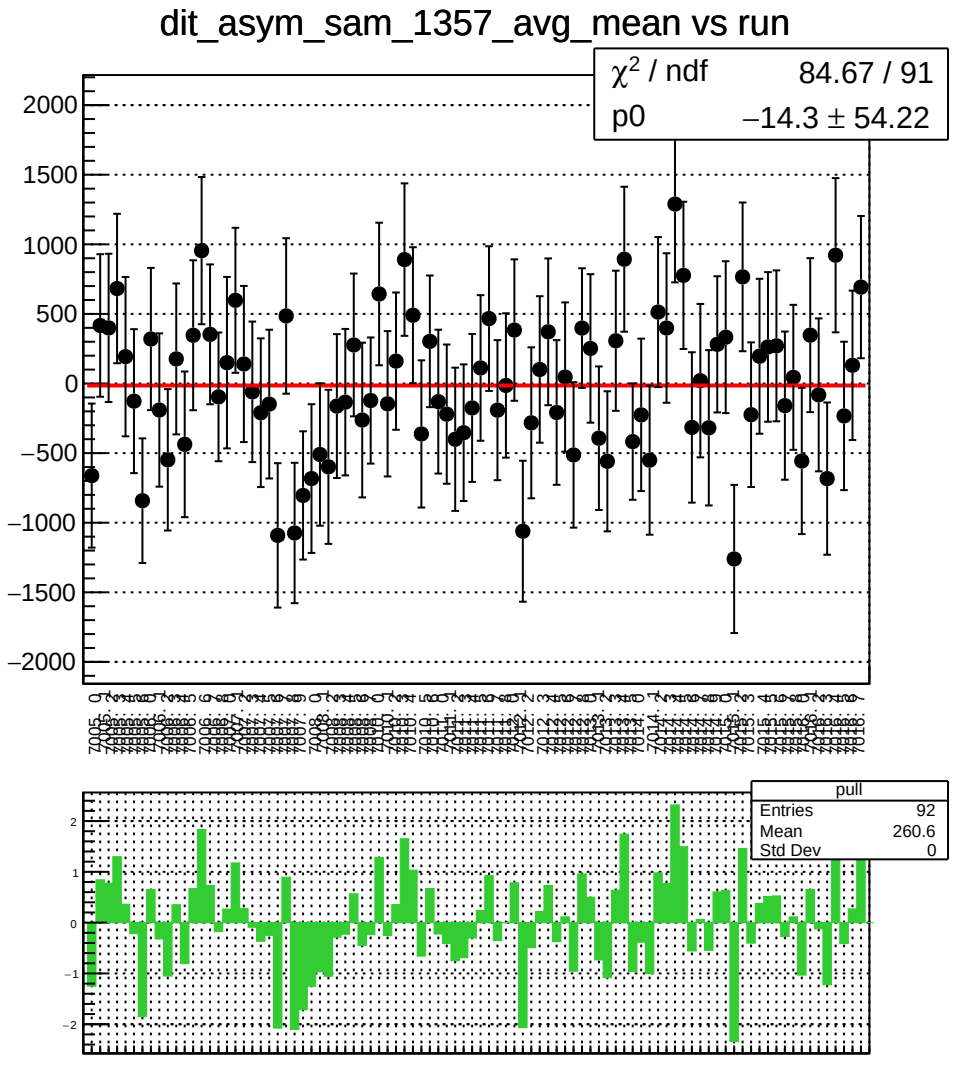

pull1D
Entries 92
Mean 0.009879
Std Dev 0.9544

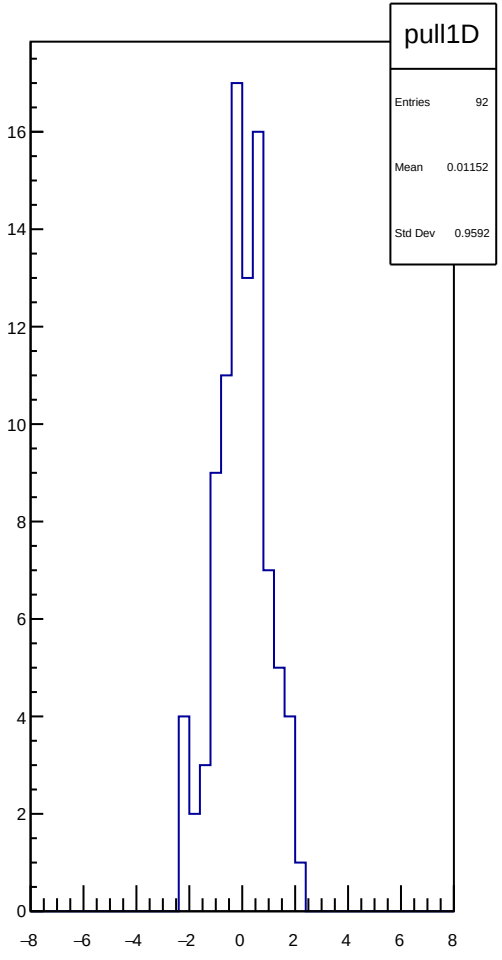

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 2395 / 91
p0 48.66 ± 0.03718
58
56
54
52
50
48
46
44

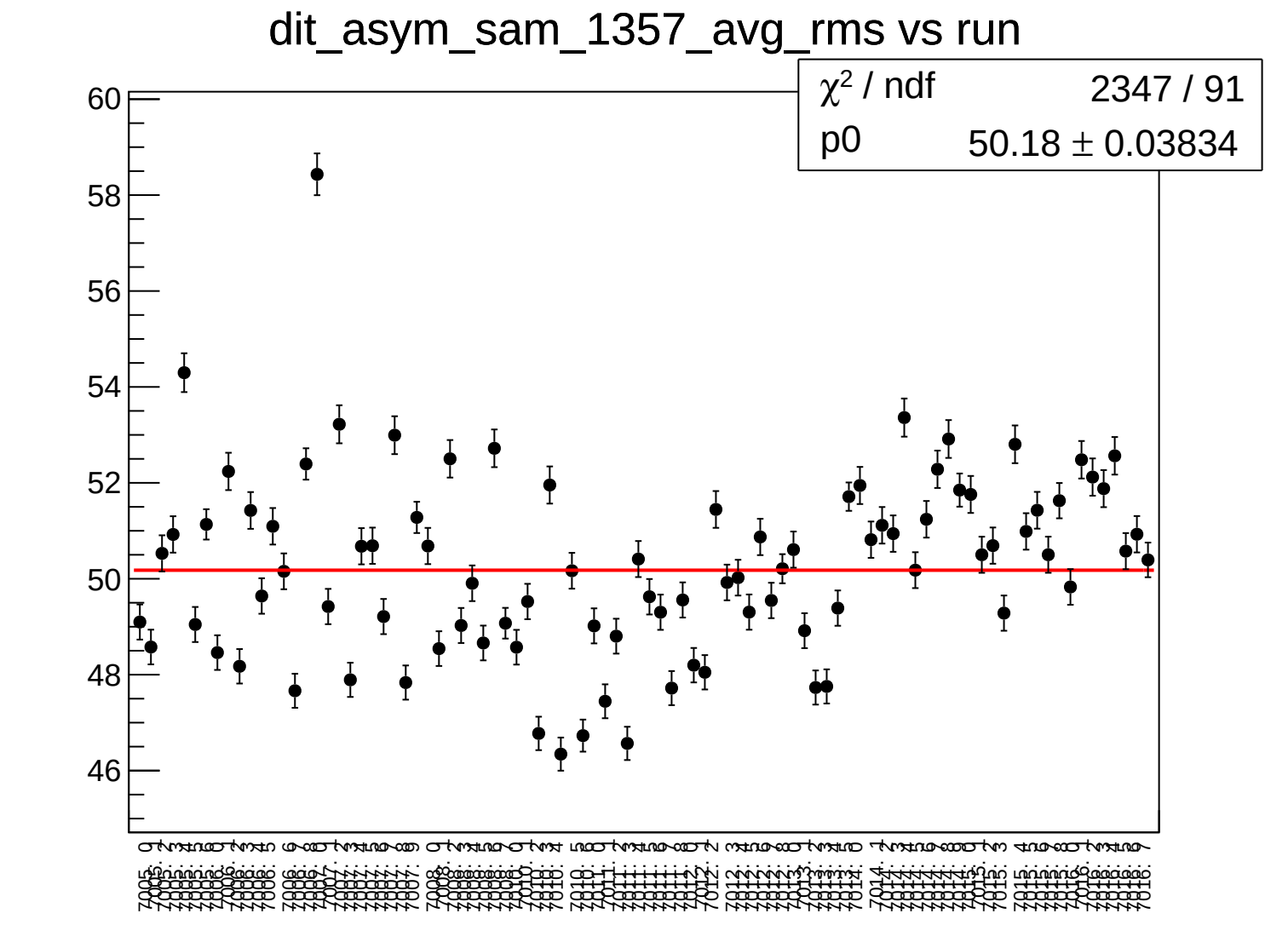

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.74 / 91
p0 −434.7 ± 439.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 2.334
Std Dev 64.96
2
1
0
−1
−2

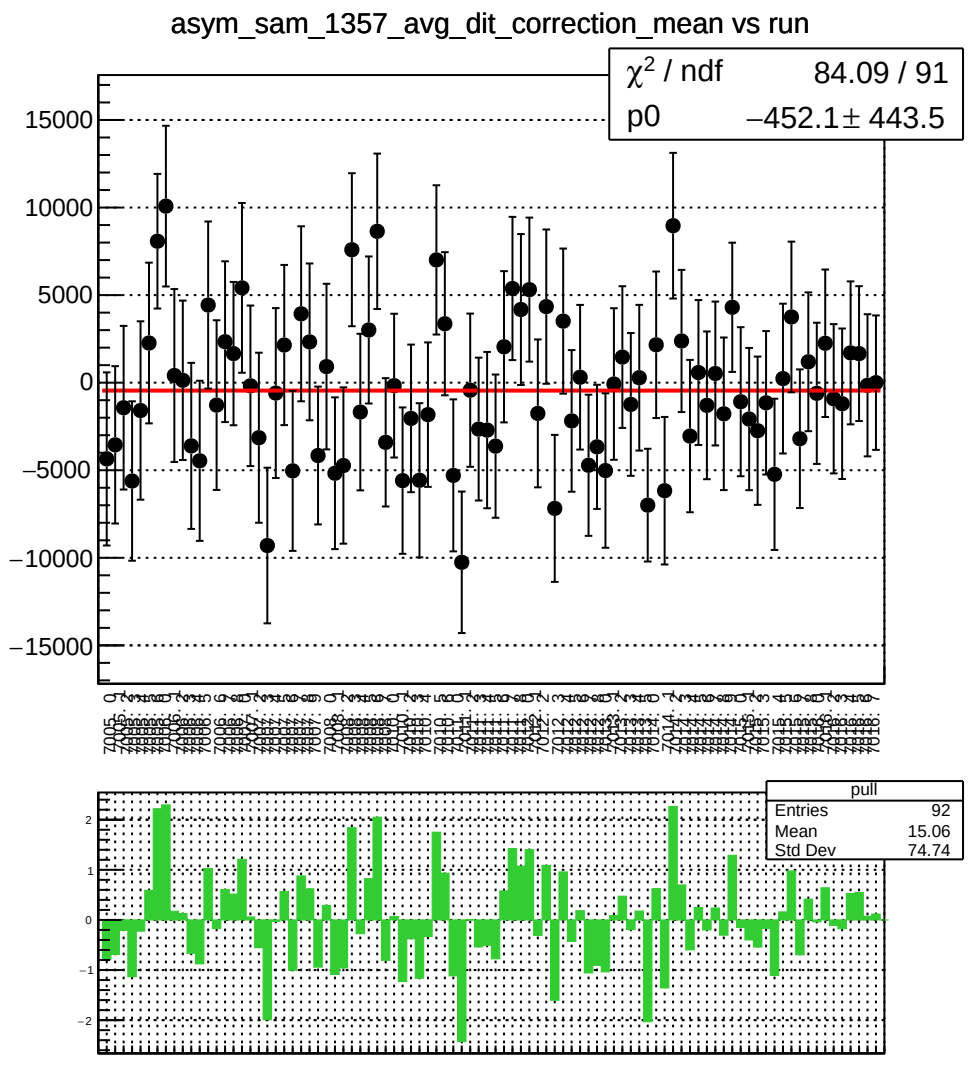

pull1D
Entries 92
Mean 0.007057
Std Dev 0.954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

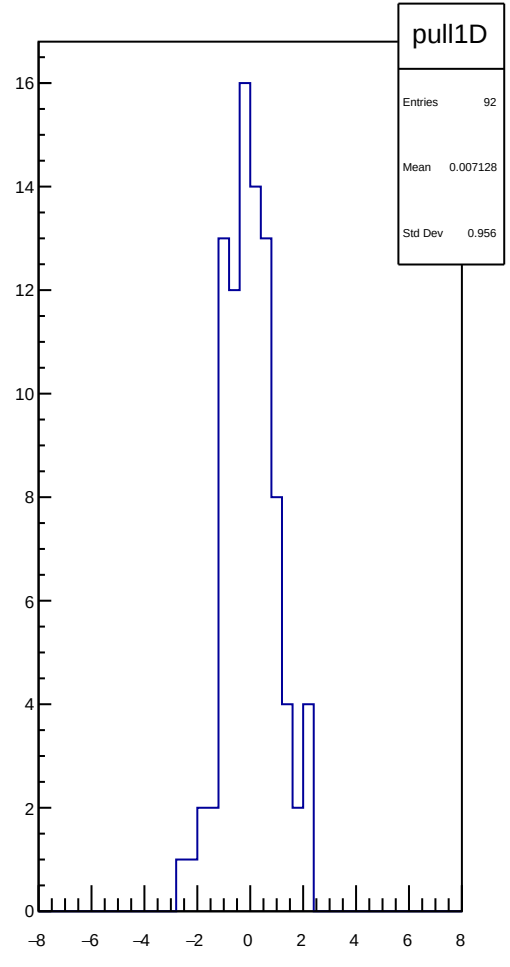

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 8121 / 91
p0 406.2 ± 0.3109
500
480
460
440
420
400
380
360
340

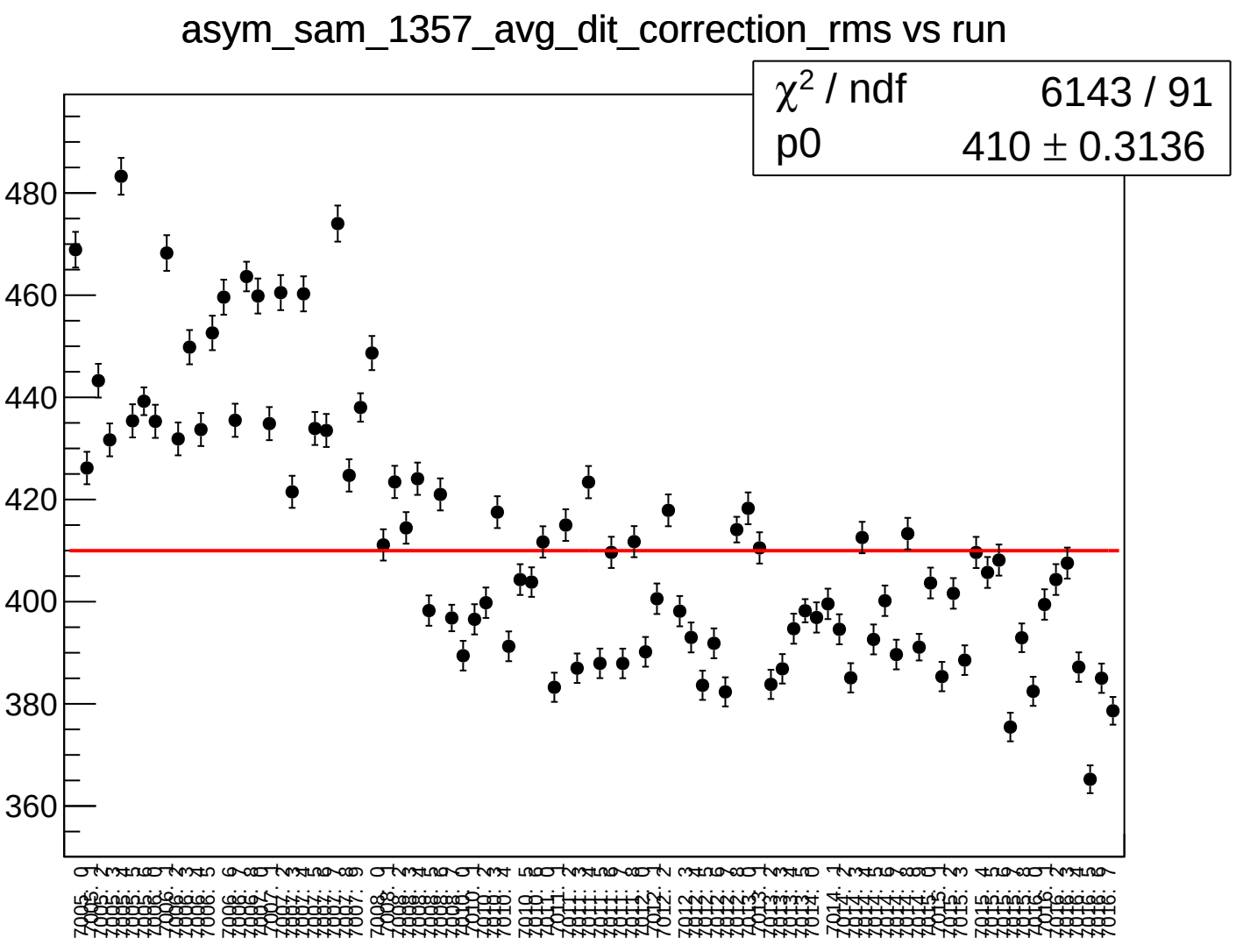

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 84.67 / 91
p0 −14.3 ± 54.22
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 92
Mean 260.6
Std Dev 0
2
1
0
−1
−2

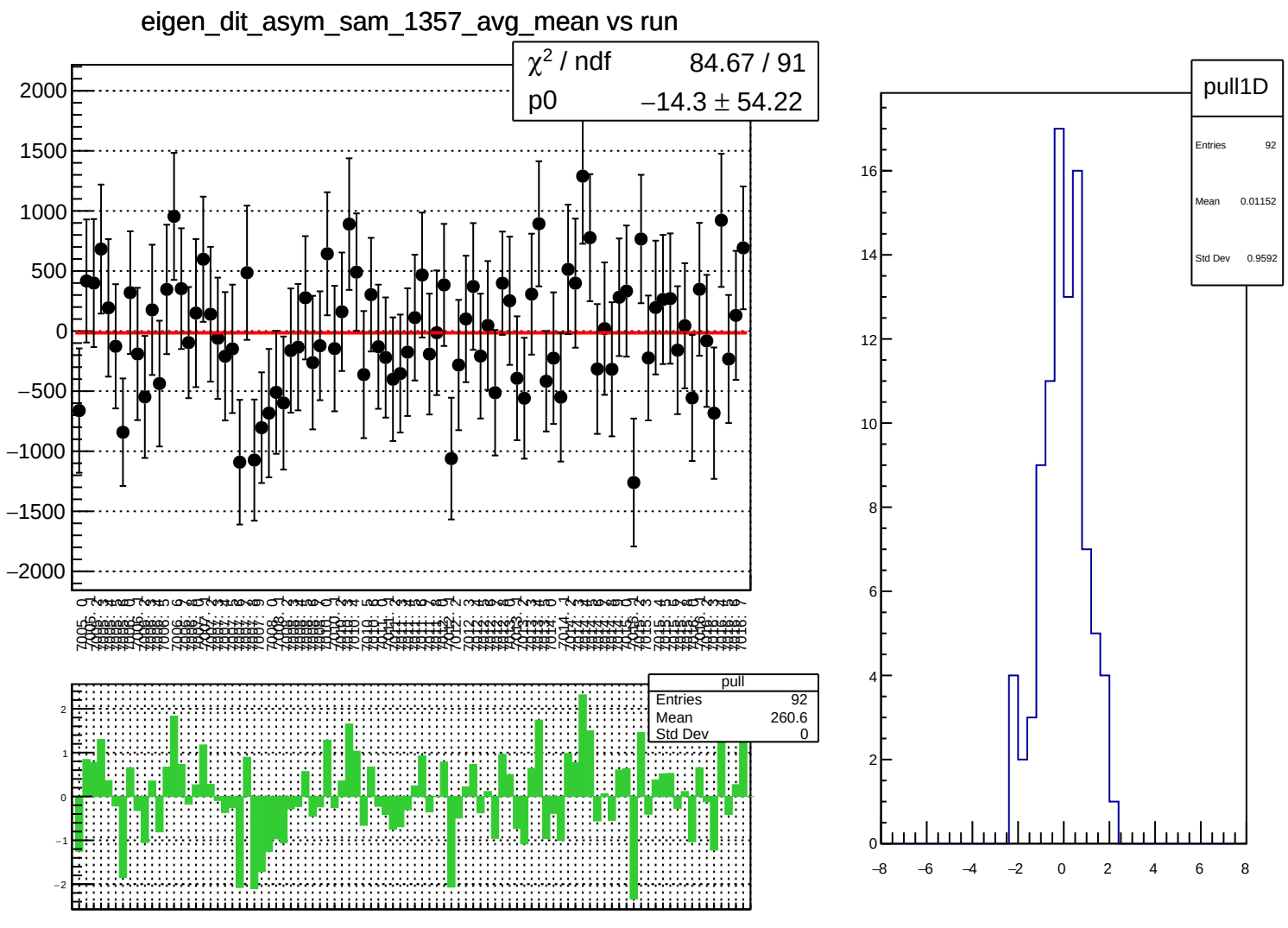

pull1D
Entries 92
Mean 0.01152
Std Dev 0.9592
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

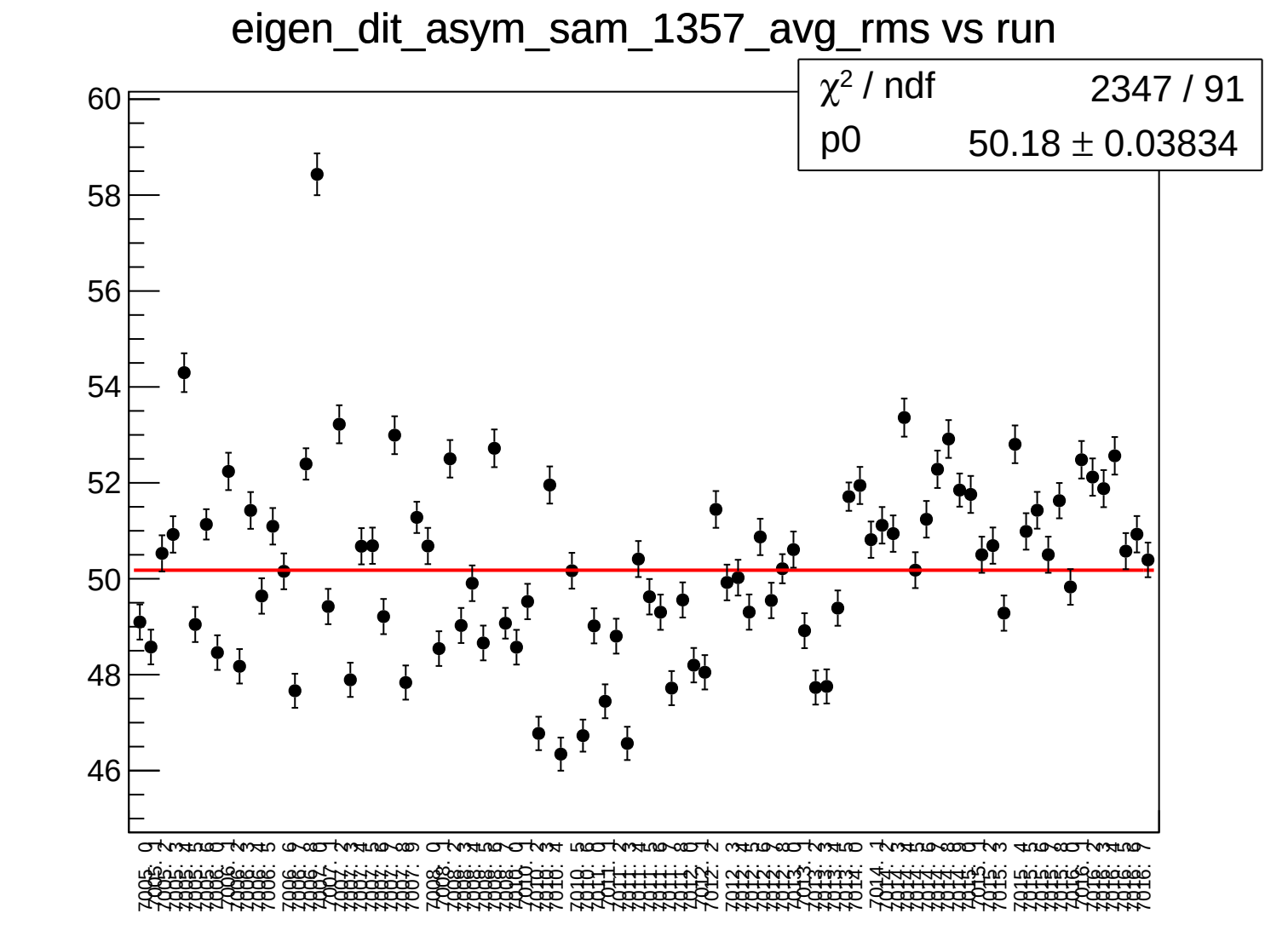

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2347 / 91
p0 50.18 ± 0.03834
60
58
56
54
52
50
48
46

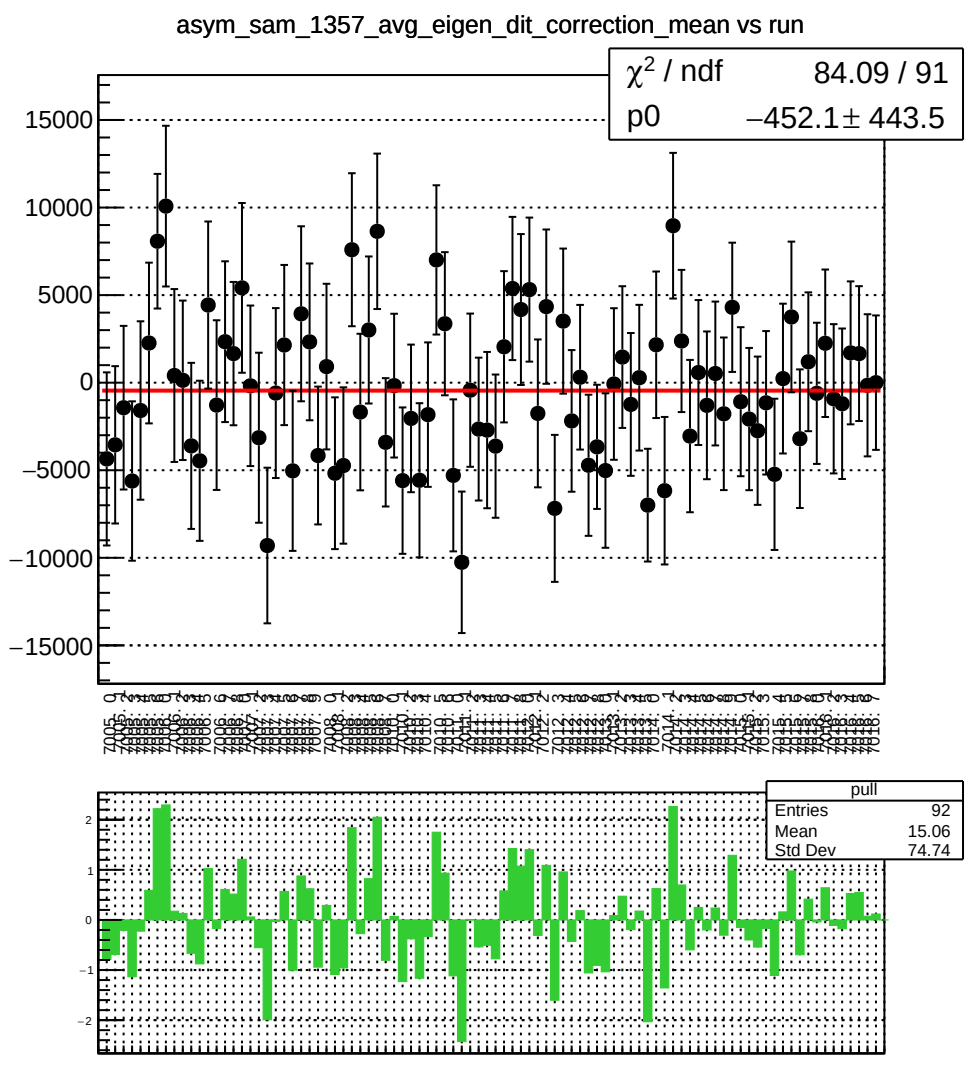

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 84.09 / 91
p0 −452.1 ± 443.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 15.06
Std Dev 74.74
2
1
0
−1
−2

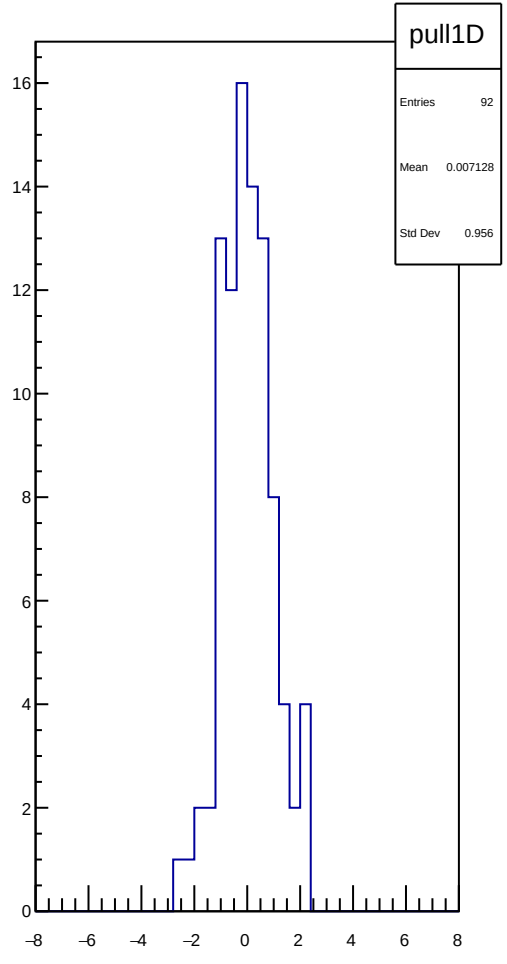

pull1D
Entries 92
Mean 0.007128
Std Dev 0.956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

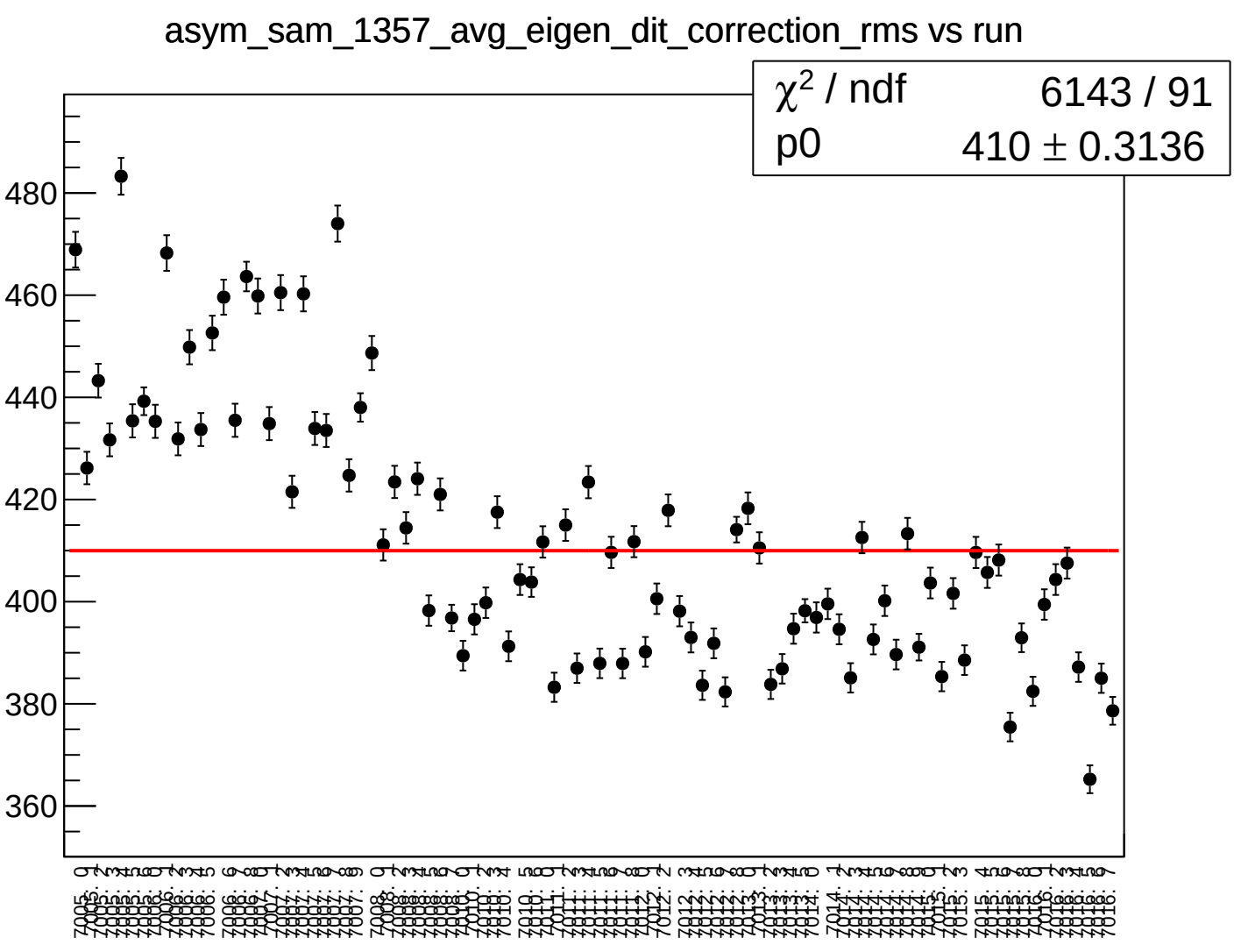

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 6143 / 91
p0 410 ± 0.3136
480
460
440
420
400
380
360

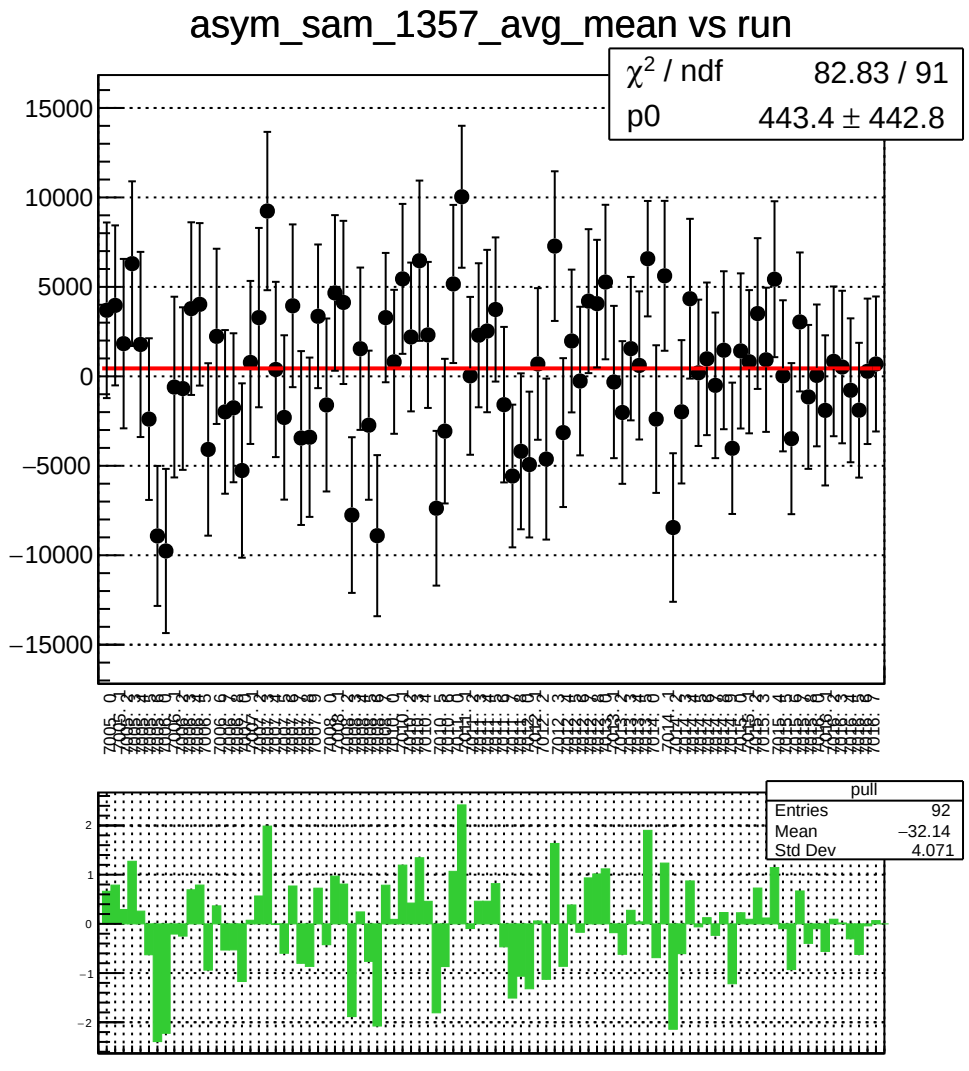

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 84.67 / 91
p0 −14.3 ± 54.22
pull
Entries 92
Mean 260.6
Std Dev 0
pull1D
Entries 92
Mean 0.01152
Std Dev 0.9592

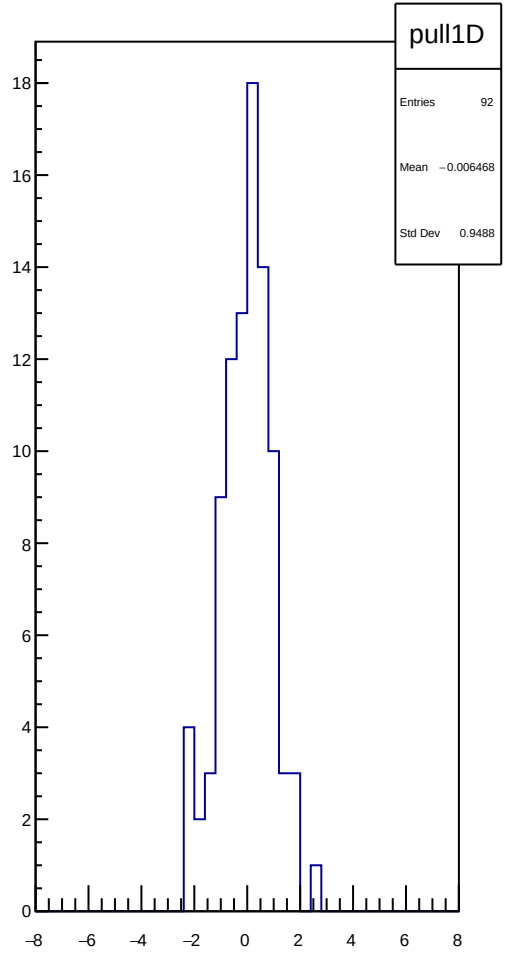

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2347 / 91
p0 50.18 ± 0.03834
60
58
56
54
52
50
48
46

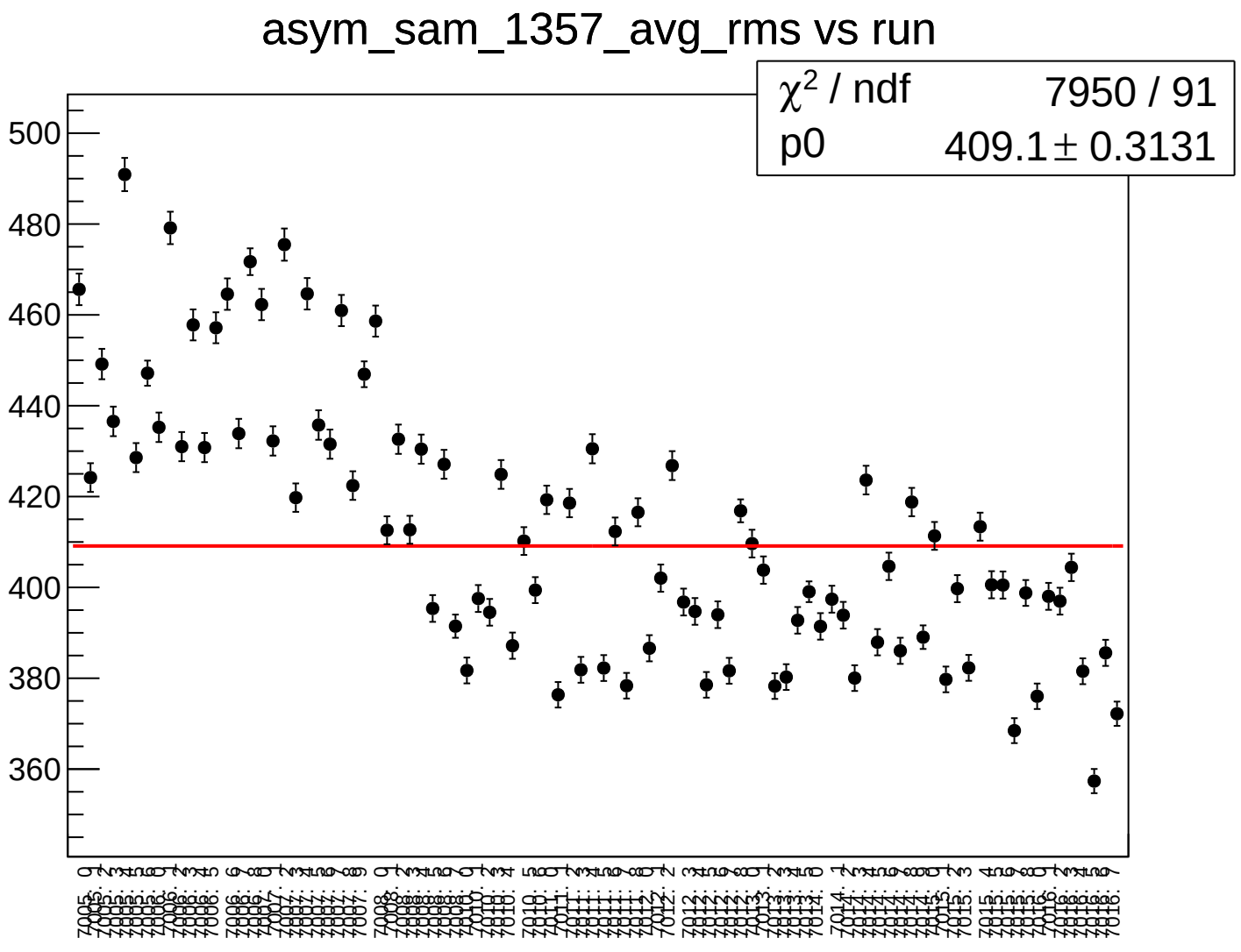

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.09 / 91
p0 −452.1 ± 443.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 15.06
Std Dev 74.74
2
1
0
−1
−2

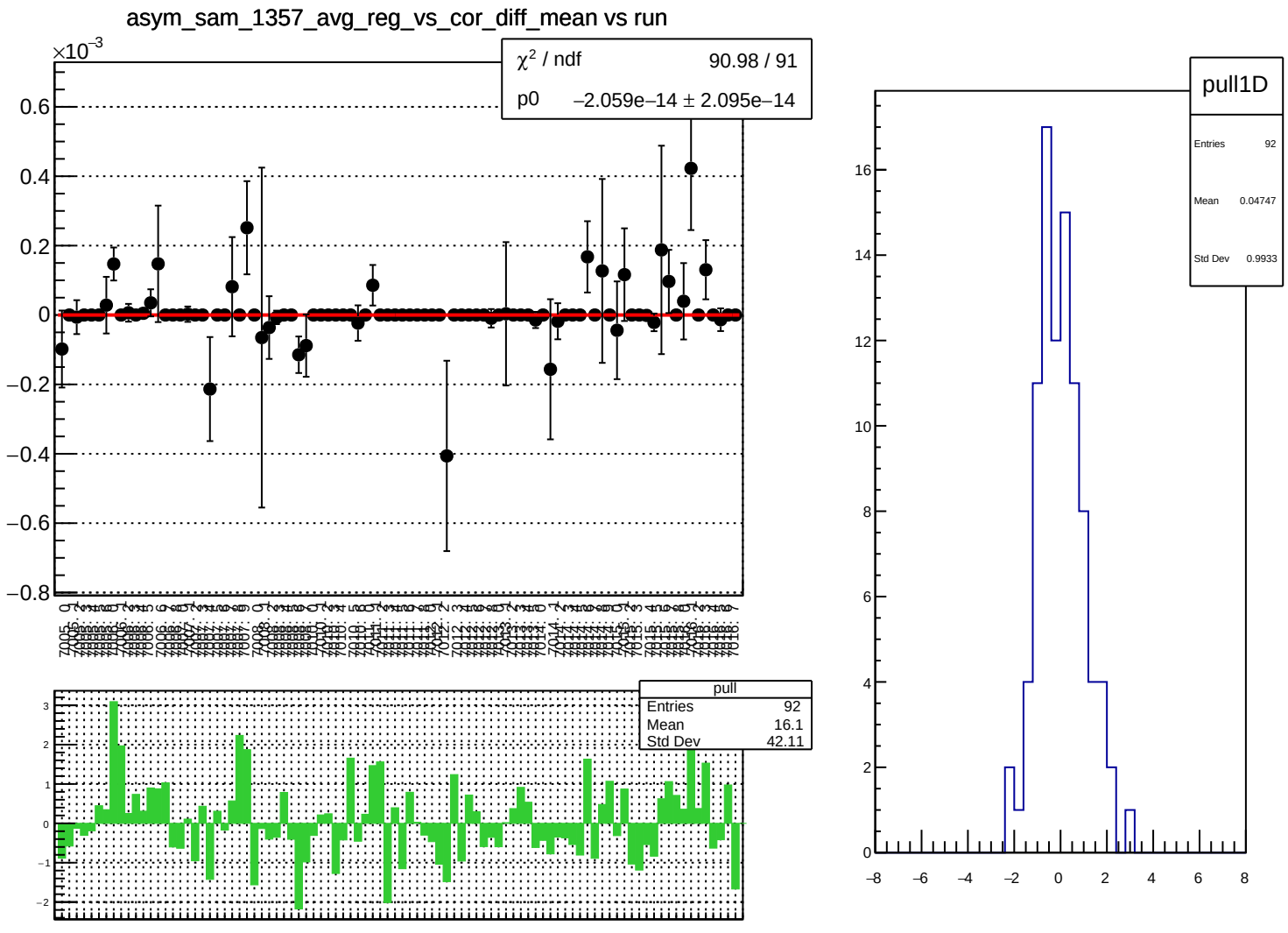

pull1D
Entries 92
Mean 0.007128
Std Dev 0.956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

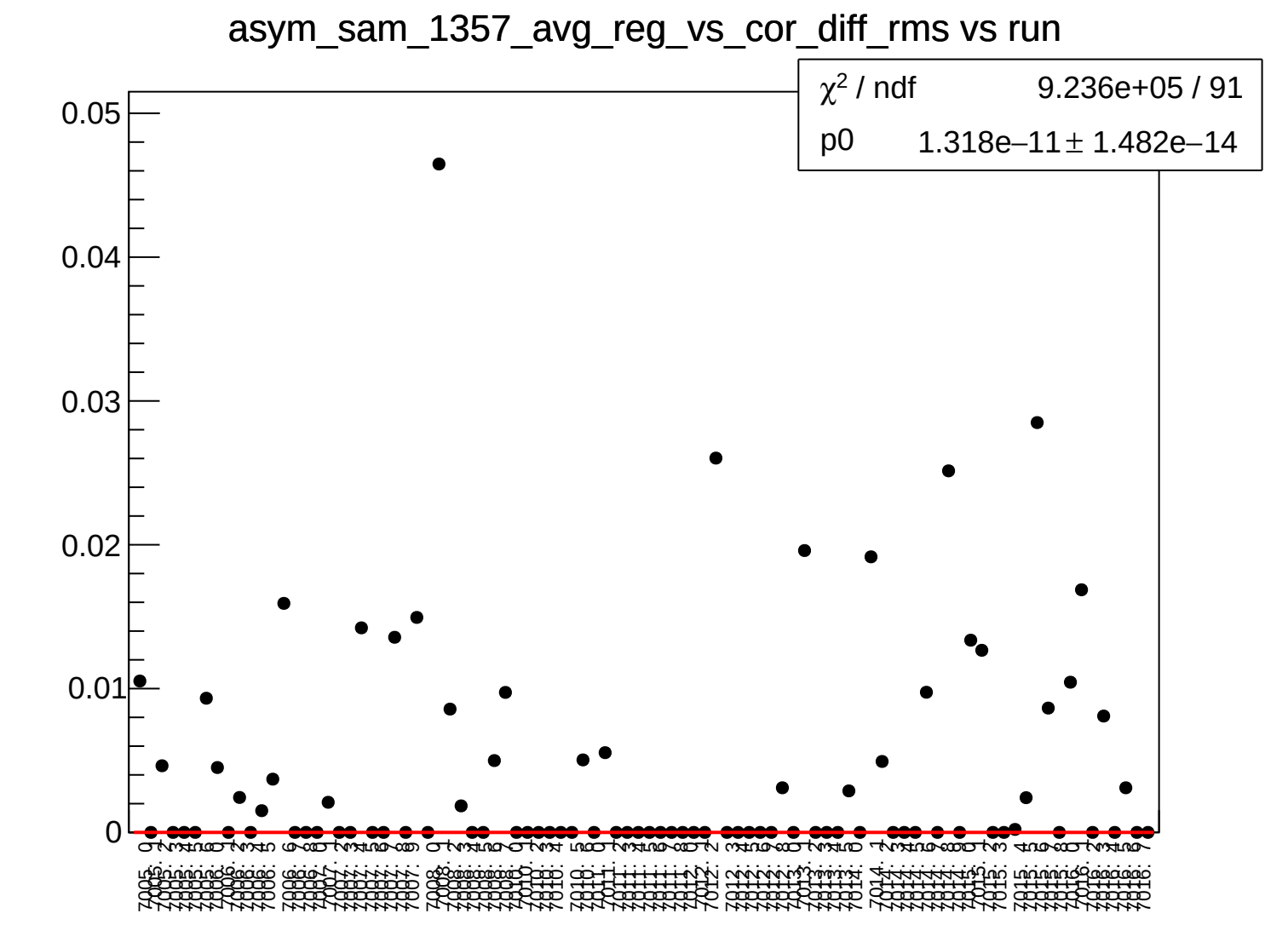

asym_sam_1357_avg_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 6143 / 91
p0 410 ± 0.3136
480
460
440
420
400
380
360

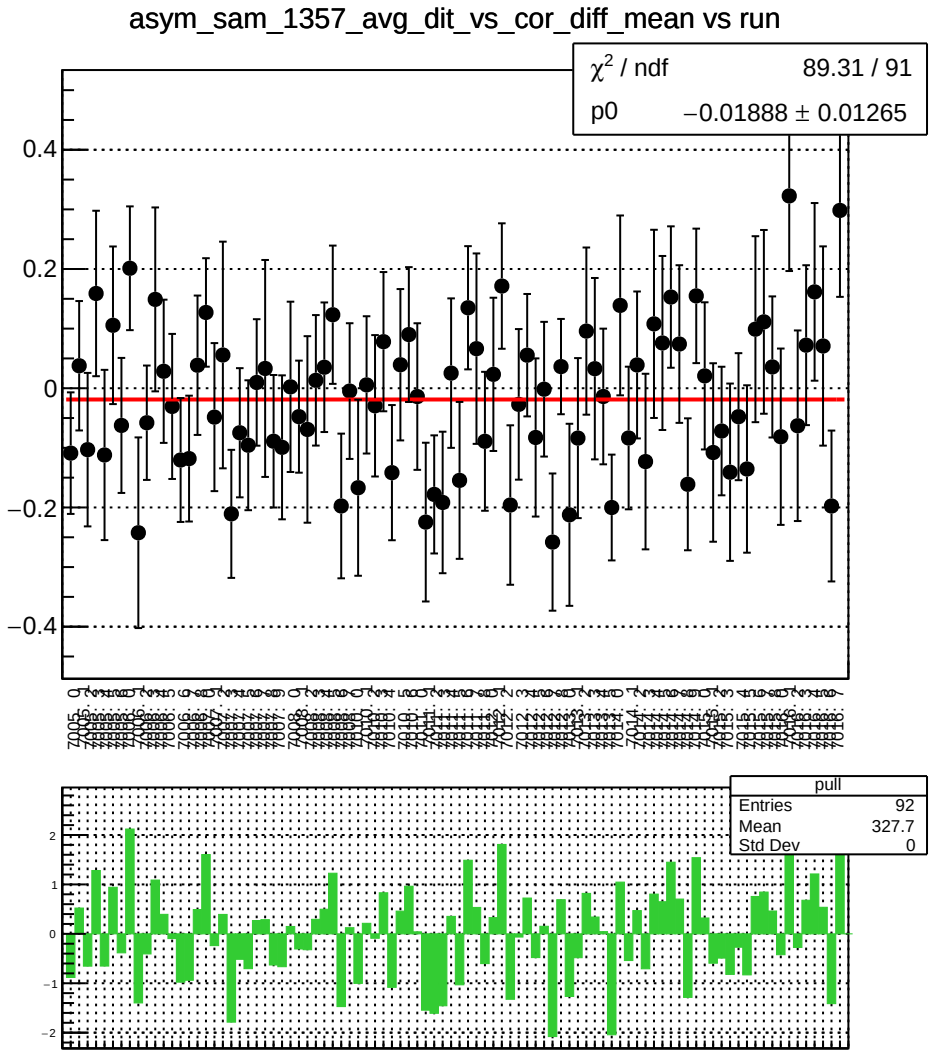

asym_sam_1357_avg_mean vs run
χ² / ndf 82.83 / 91
p0 443.4 ± 442.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −32.14
Std Dev 4.071
2
1
0
−1
−2

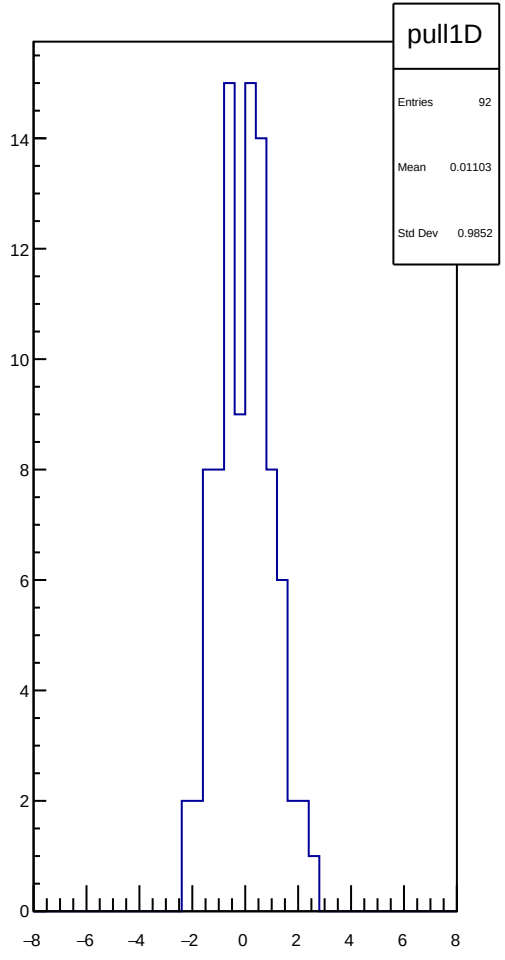

pull1D
Entries 92
Mean −0.006468
Std Dev 0.9488
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

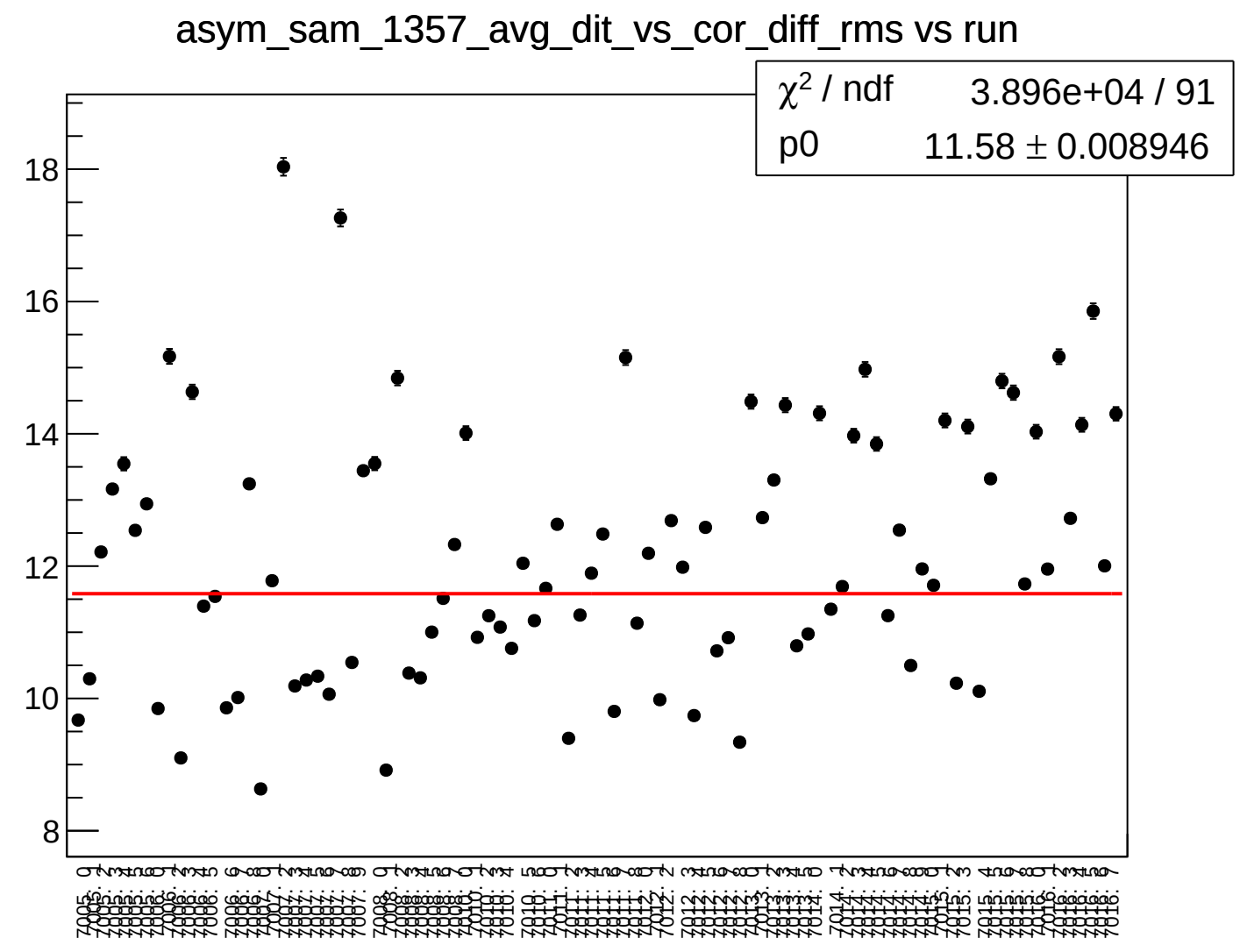

asym_sam_1357_avg_rms vs run
χ² / ndf 7950 / 91
p0 409.1 ± 0.3131
500
480
460
440
420
400
380
360

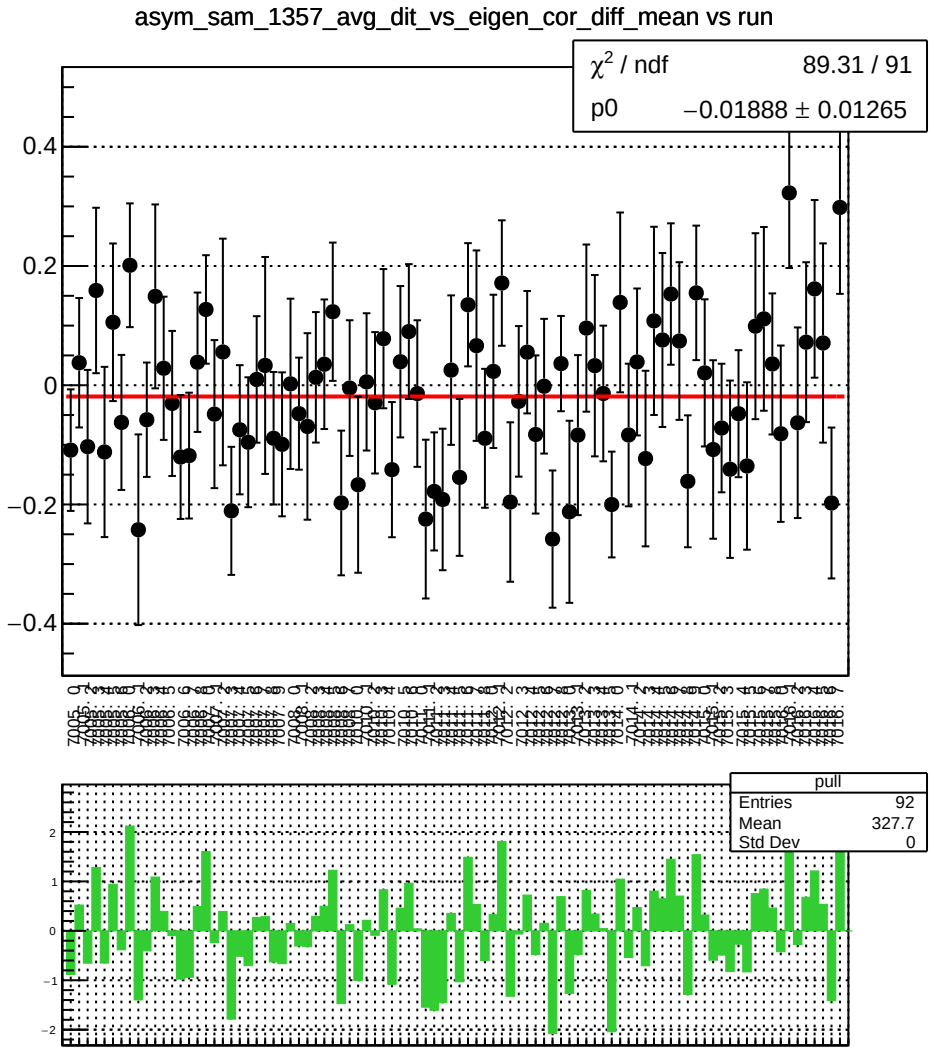

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 90.98 / 91
p0 −2.059e−14 ± 2.095e−14
pull
Entries 92
Mean 16.1
Std Dev 42.11
pull1D
Entries 92
Mean 0.04747
Std Dev 0.9933

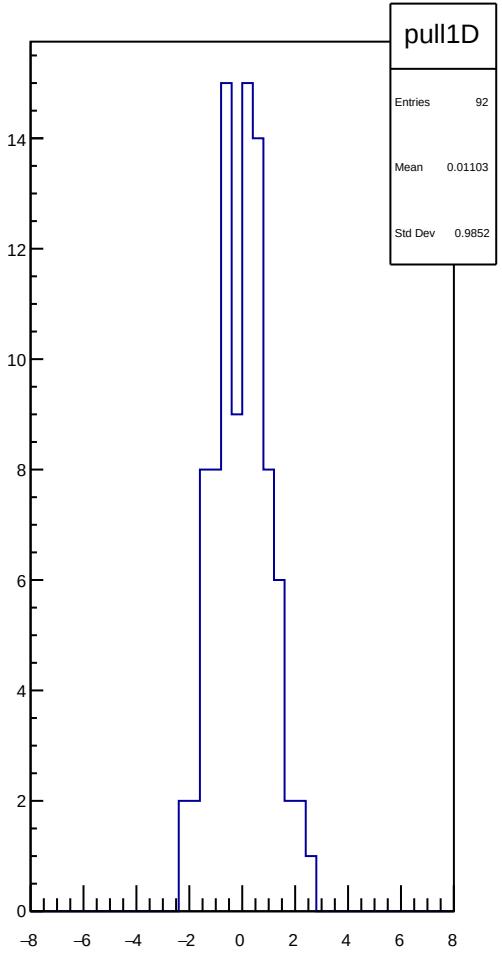

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.236e+05 / 91
p0 1.318e−11 ± 1.482e−14
0.05
0.04
0.03
0.02
0.01
0

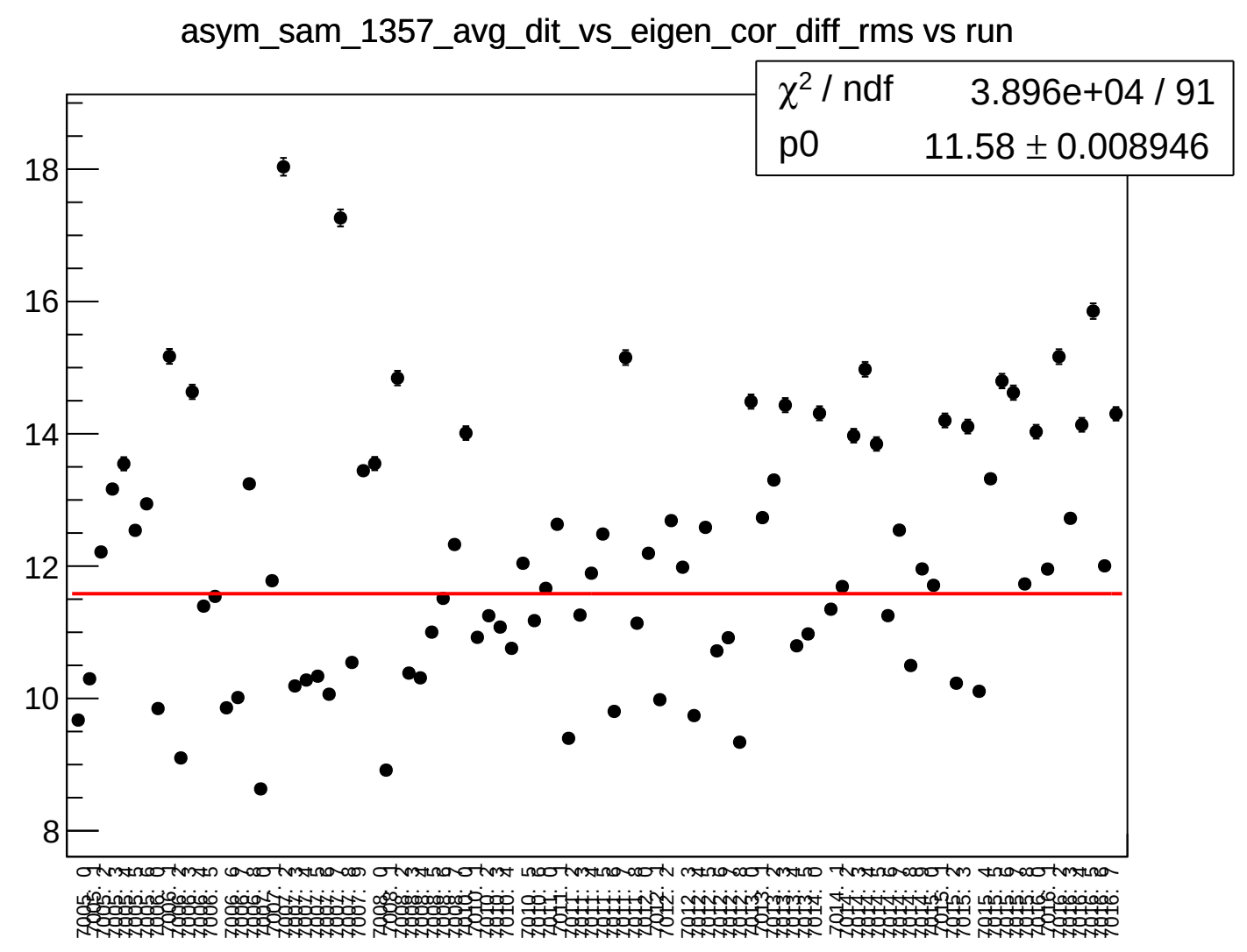

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.31 / 91
p0 −0.01888 ± 0.01265
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 327.7
Std Dev 0
2
1
0
−1
−2

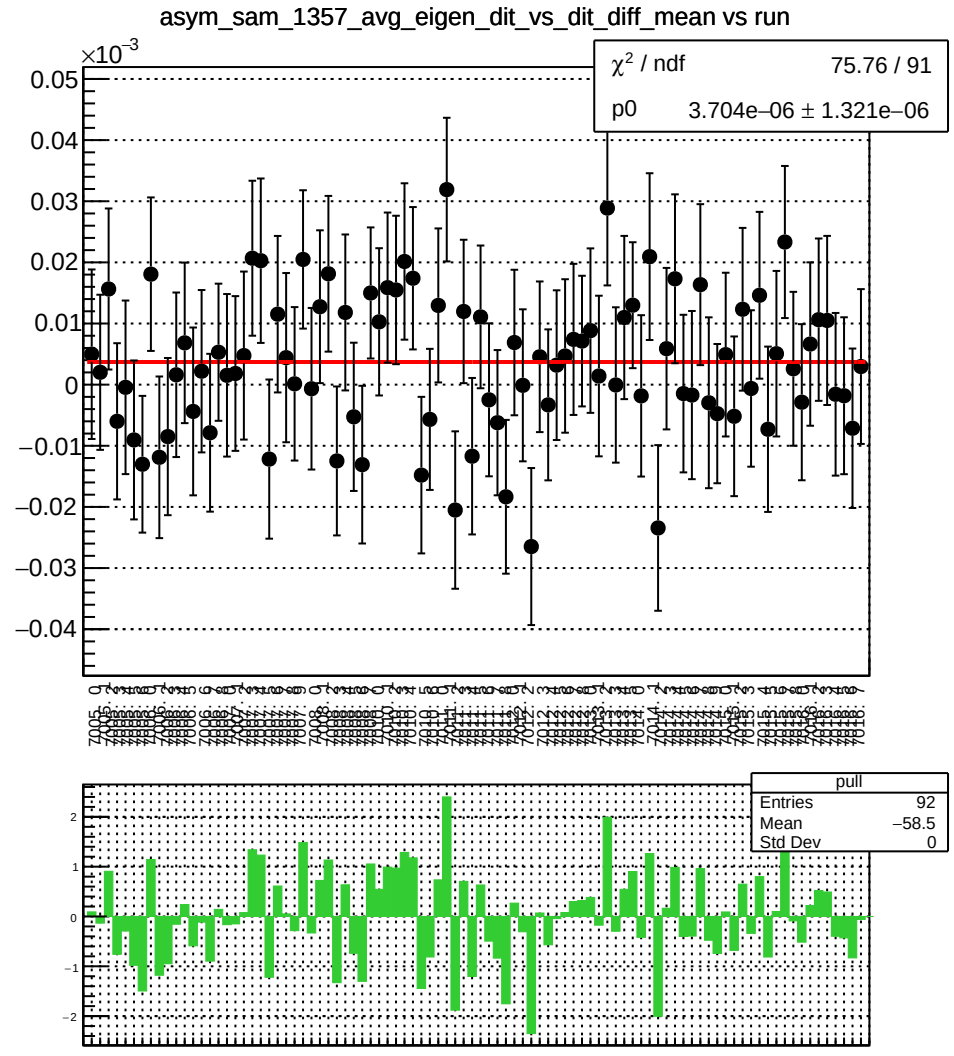

pull1D
Entries 92
Mean 0.01103
Std Dev 0.9852
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

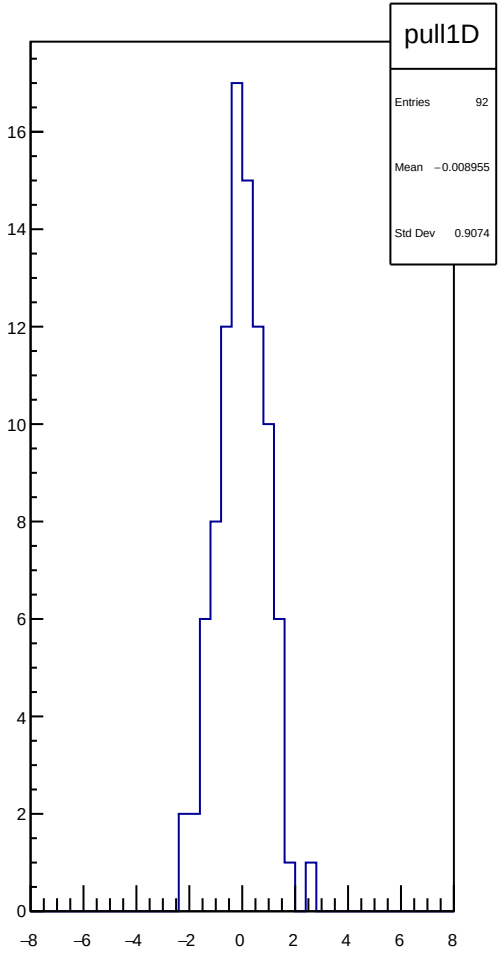

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.896e+04 / 91
p0 11.58 ± 0.008946
18
16
14
12
10
8

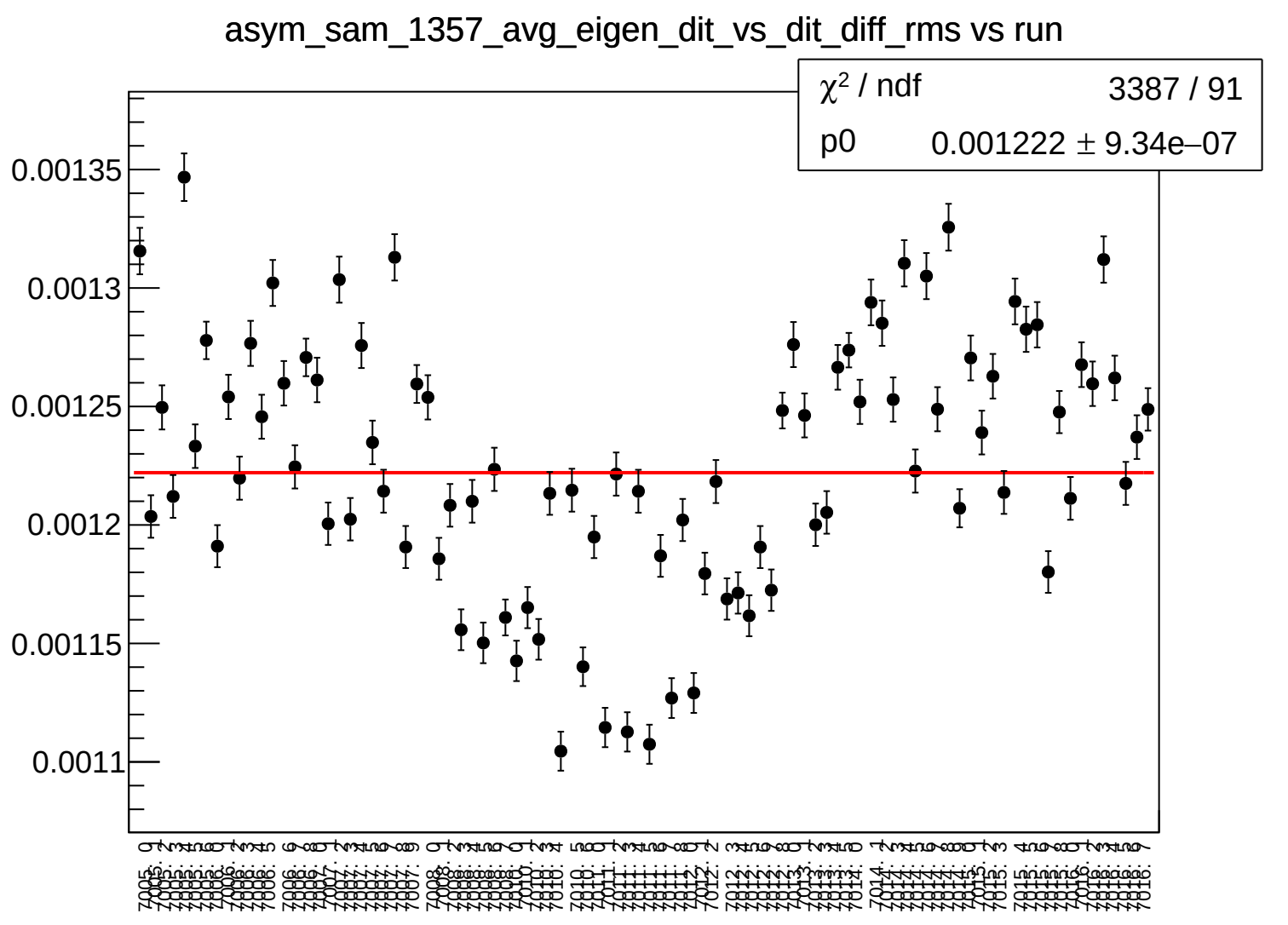

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.31 / 91
p0 −0.01888 ± 0.01265
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 327.7
Std Dev 0
2
1
0
−1
−2

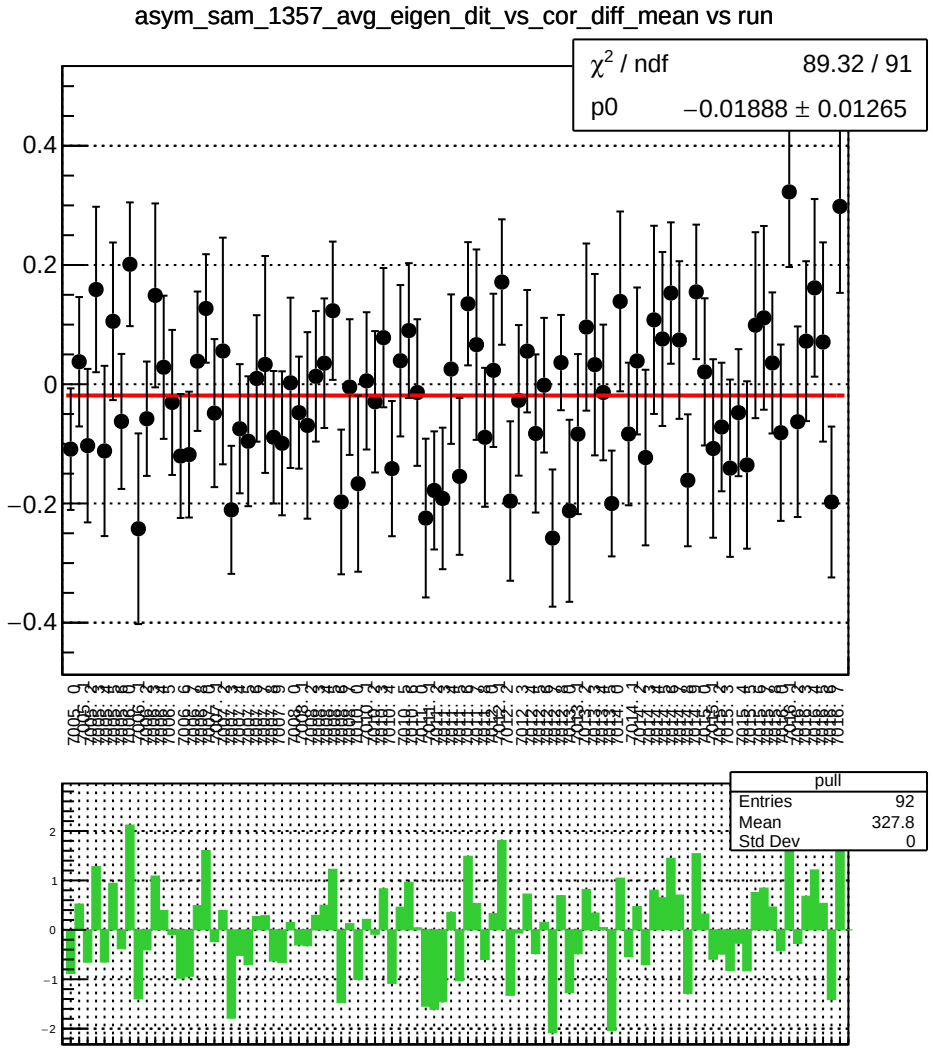

pull1D
Entries 92
Mean 0.01103
Std Dev 0.9852
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

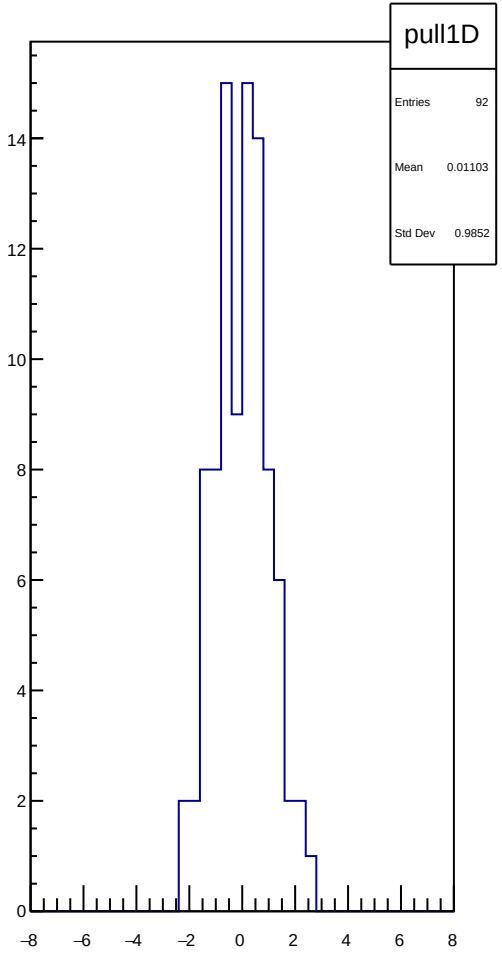

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.896e+04 / 91
p0 11.58 ± 0.008946
18
16
14
12
10
8

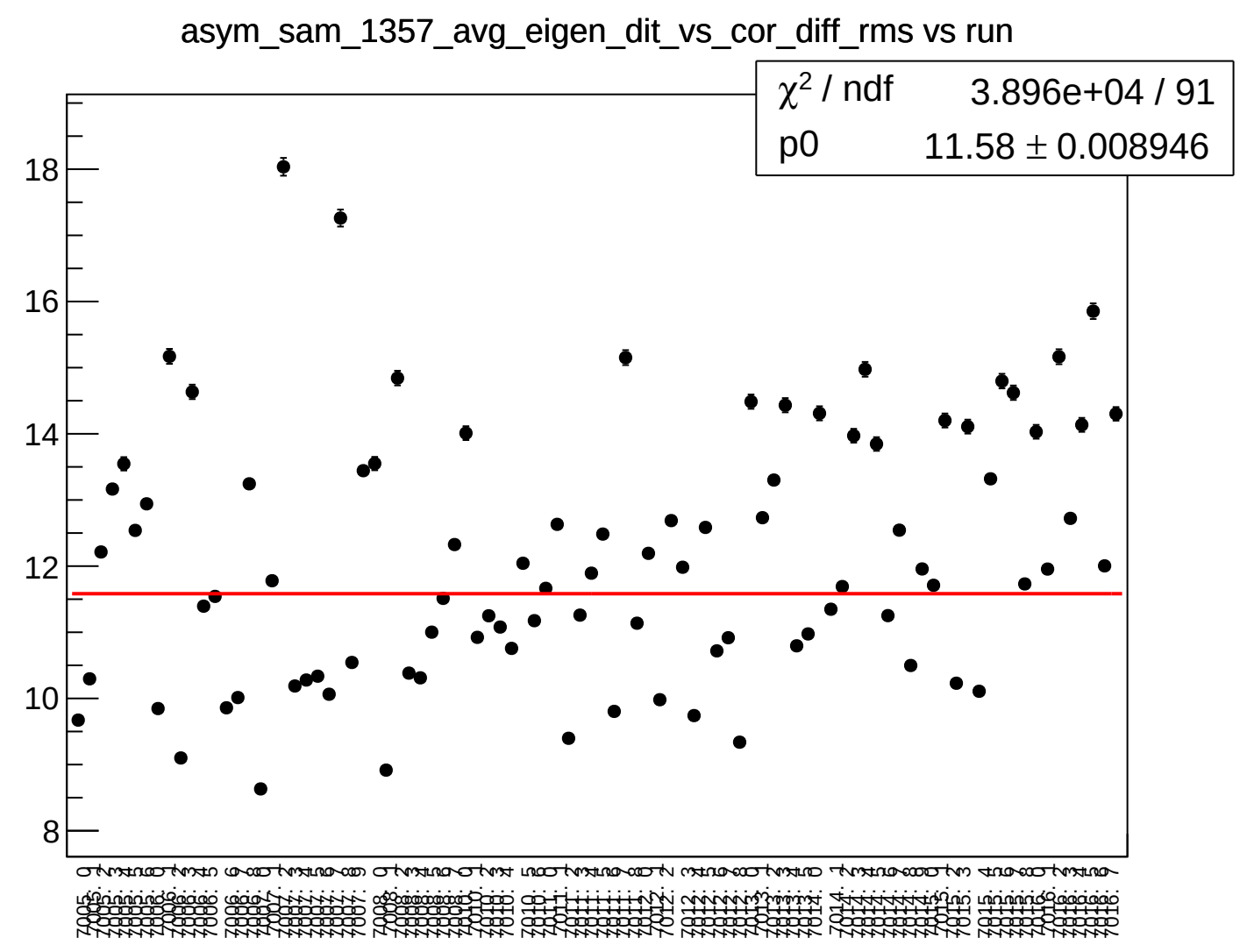

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.76 / 91
p0 3.704e−06 ± 1.321e−06
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 92
Mean −58.5
Std Dev 0
2
1
0
−1
−2

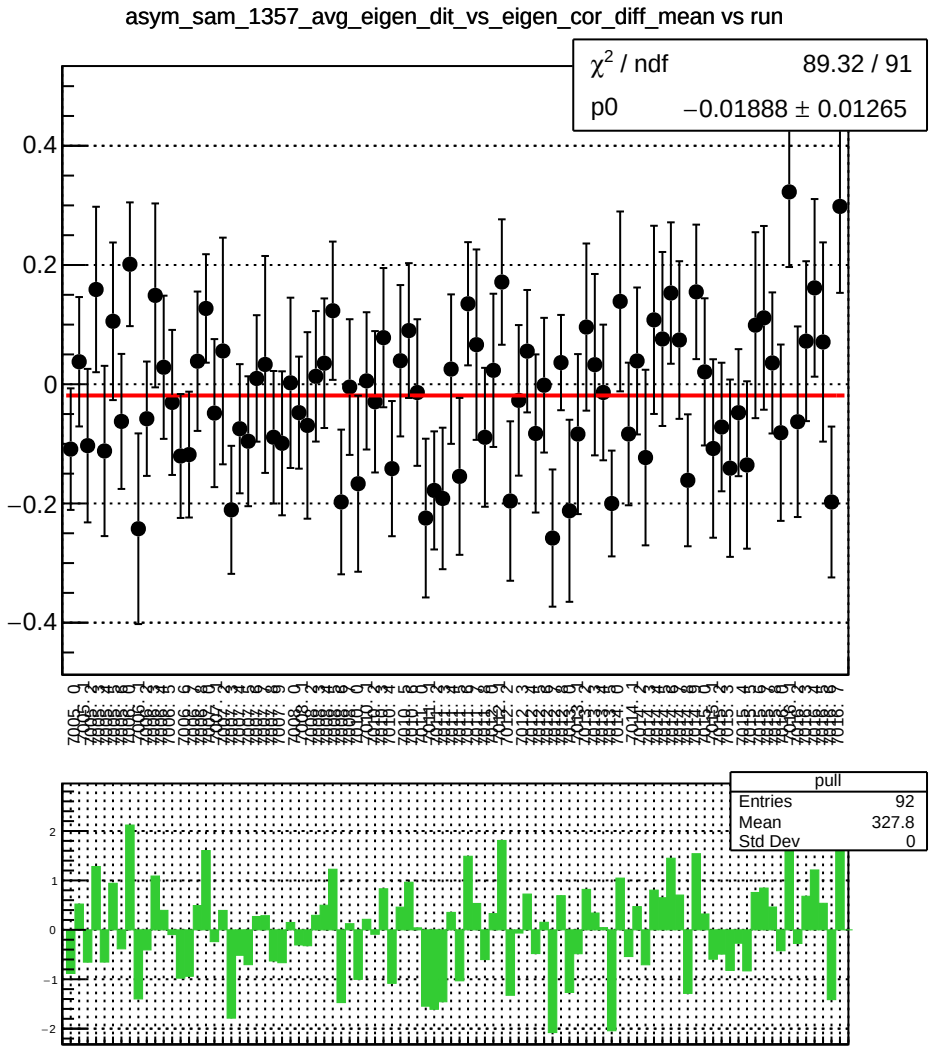

pull1D
Entries 92
Mean −0.008955
Std Dev 0.9074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

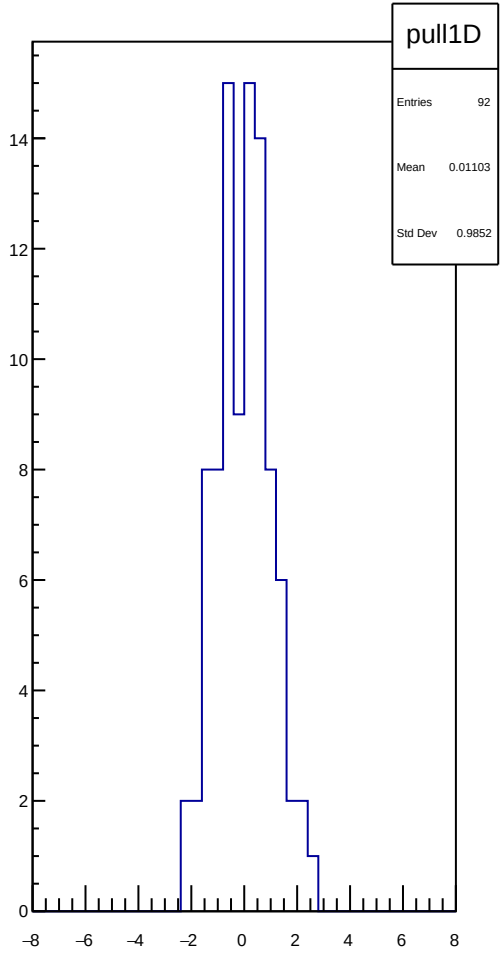

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3387 / 91
p0 0.001222 ± 9.34e–07
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011

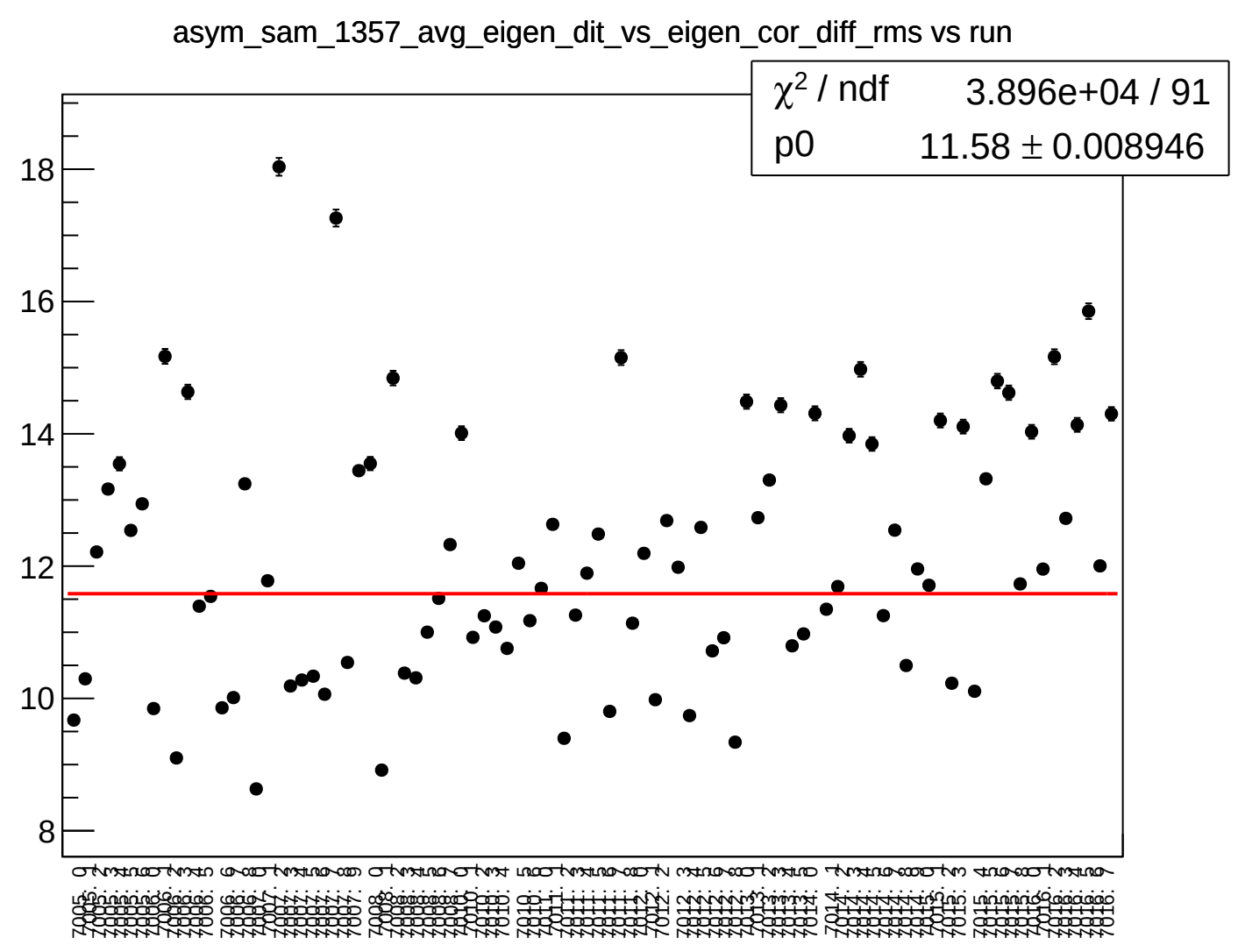

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.32 / 91
p0 −0.01888 ± 0.01265
pull
Entries 92
Mean 327.8
Std Dev 0

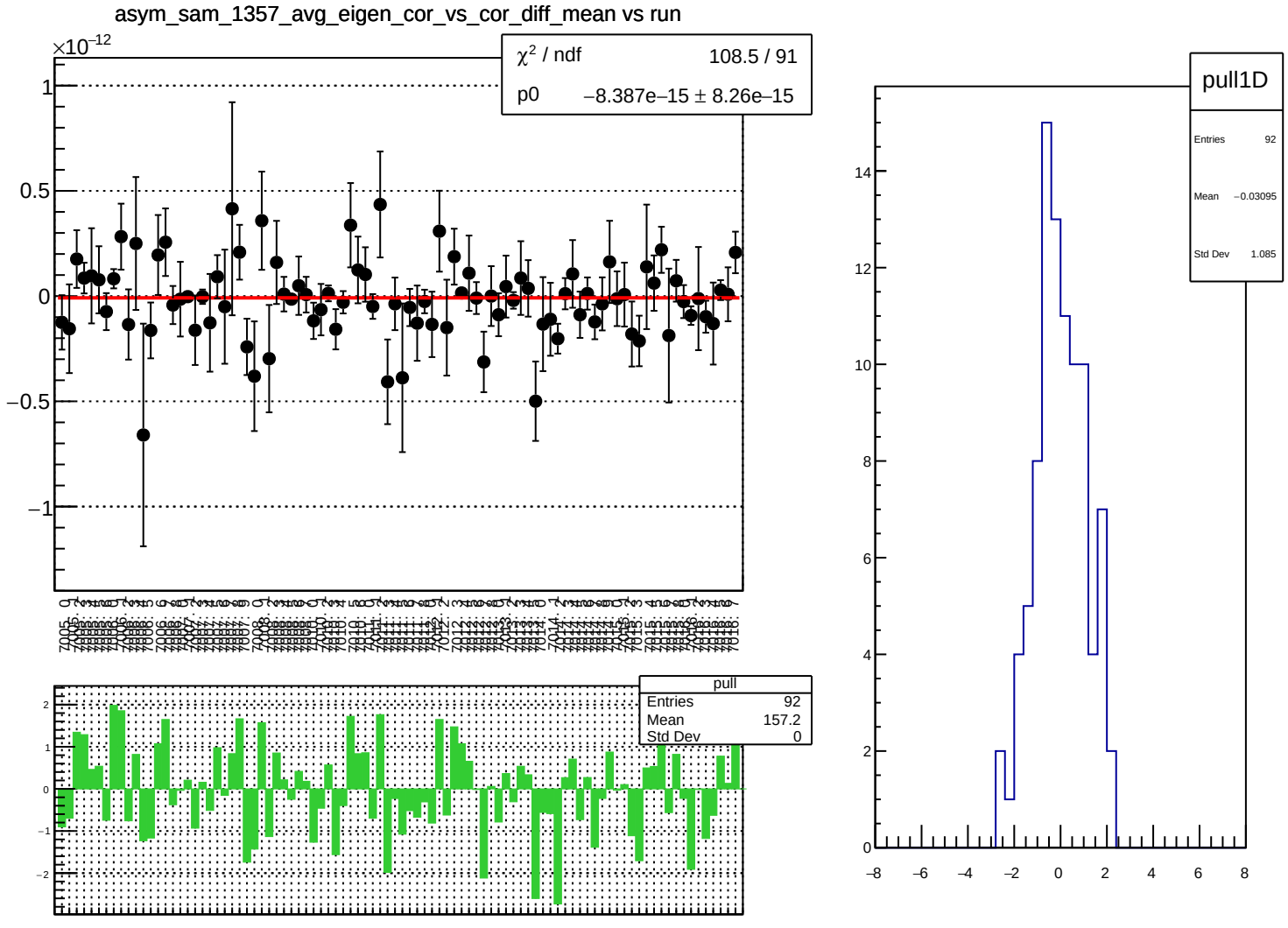

pull1D
Entries 92
Mean 0.01103
Std Dev 0.9852

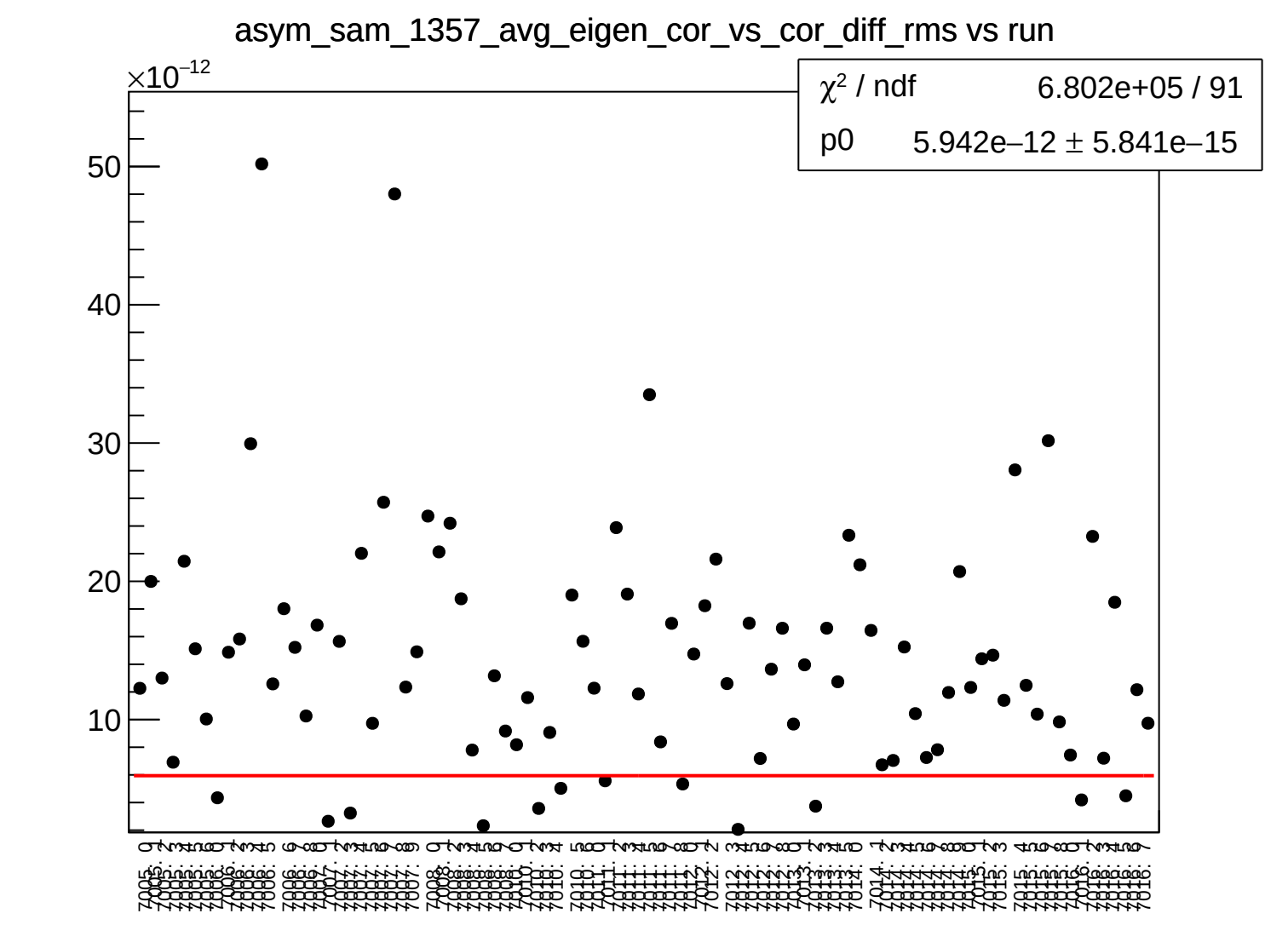

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.896e+04 / 91
p0 11.58 ± 0.008946
18
16
14
12
10
8

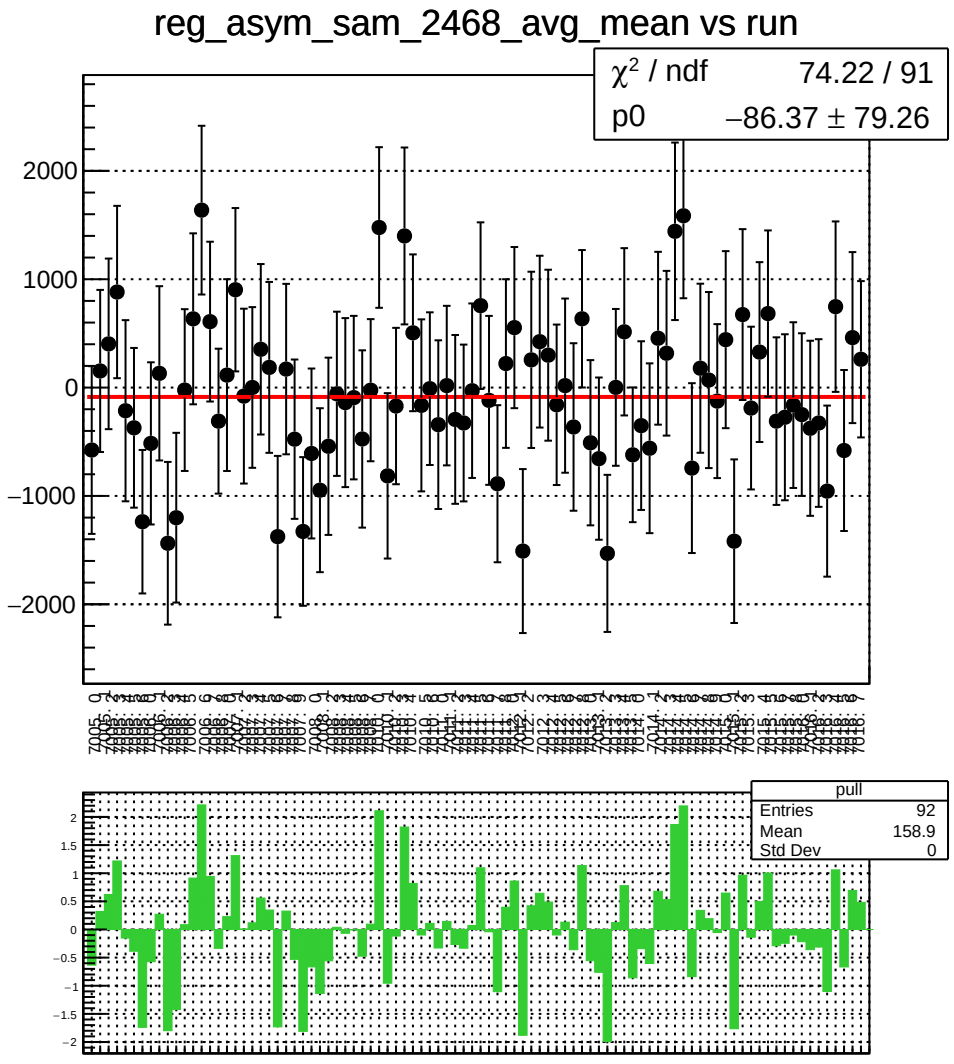

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.32 / 91
p0 −0.01888 ± 0.01265
0.4
0.2
0
−0.2
−0.4
pull
Entries 92
Mean 327.8
Std Dev 0
2
1
0
−1
−2

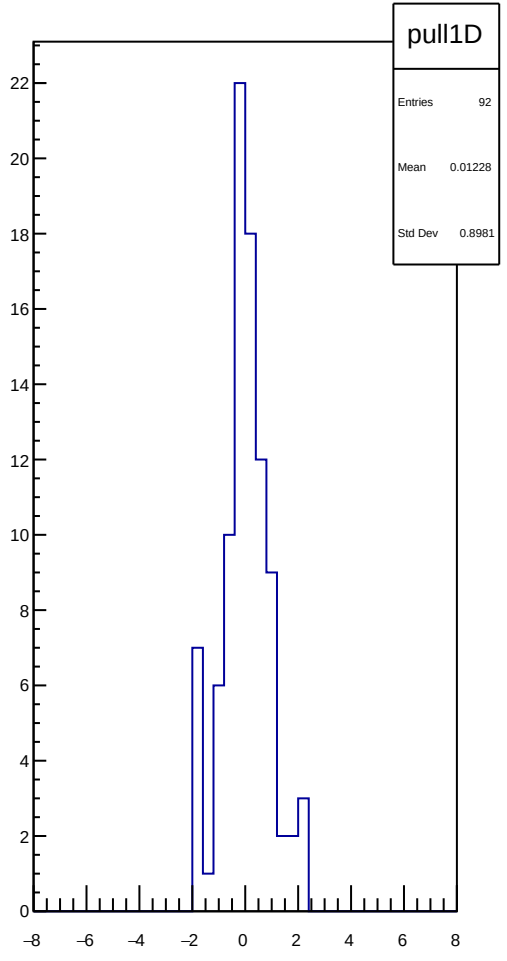

pull1D
Entries 92
Mean 0.01103
Std Dev 0.9852
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.896e+04 / 91
p0 11.58 ± 0.008946
18
16
14
12
10
8

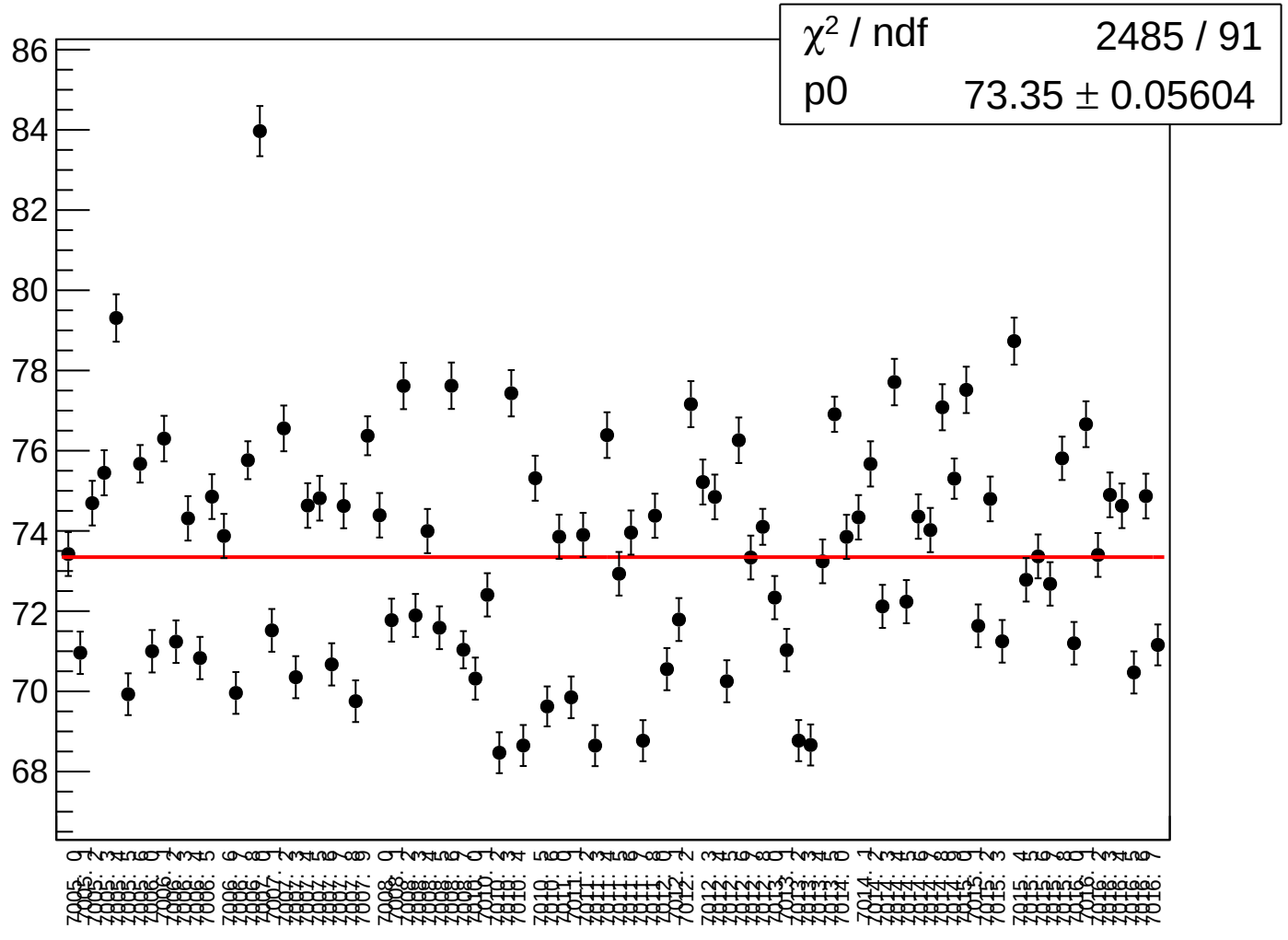

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.5 / 91
p0 −8.387e−15 ± 8.26e−15
pull
Entries 92
Mean 157.2
Std Dev 0
pull1D
Entries 92
Mean −0.03095
Std Dev 1.085

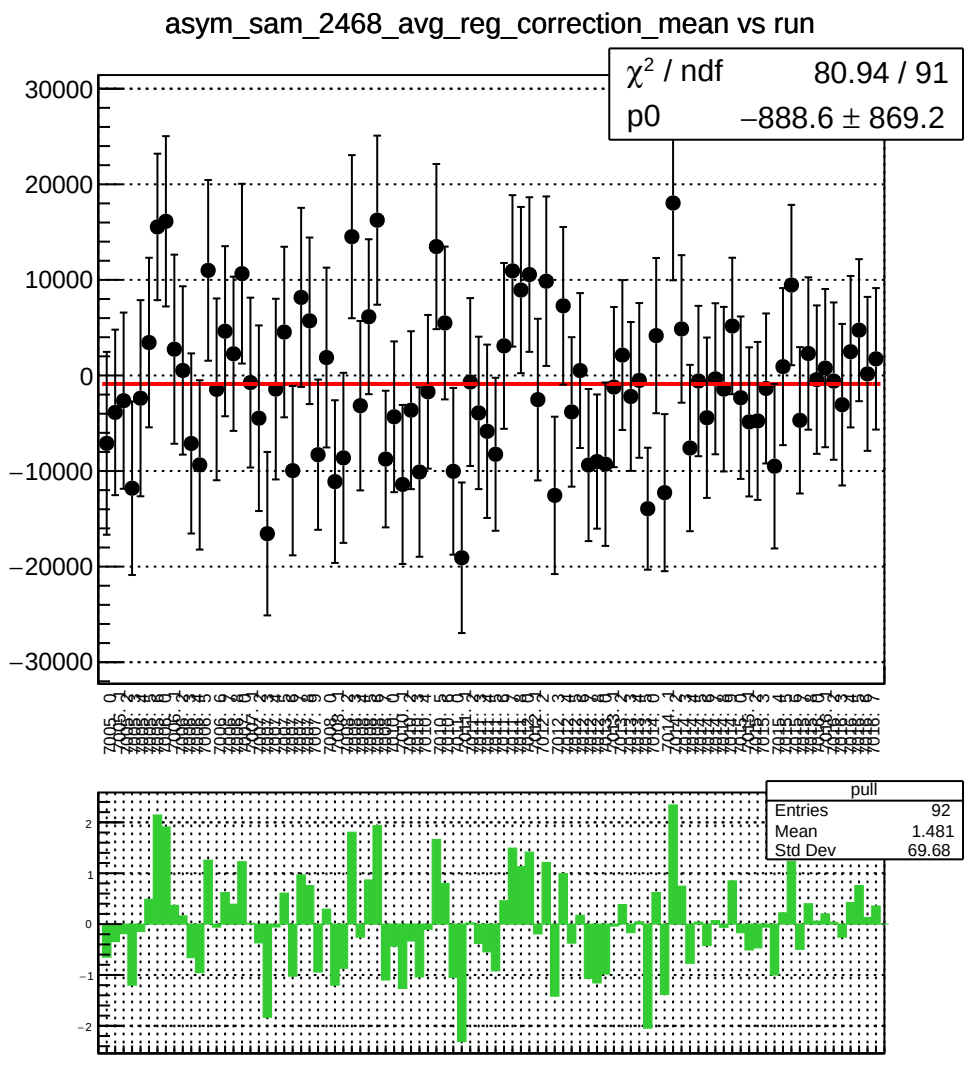

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.802e+05 / 91
p0 5.942e−12 ± 5.841e−15
50
40
30
20
10

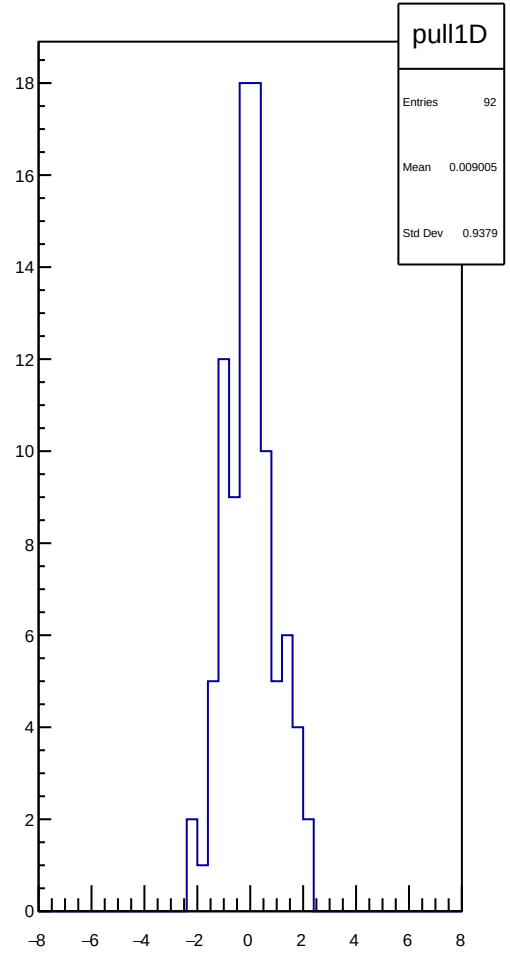

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 74.22 / 91
p0 −86.37 ± 79.26
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 158.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

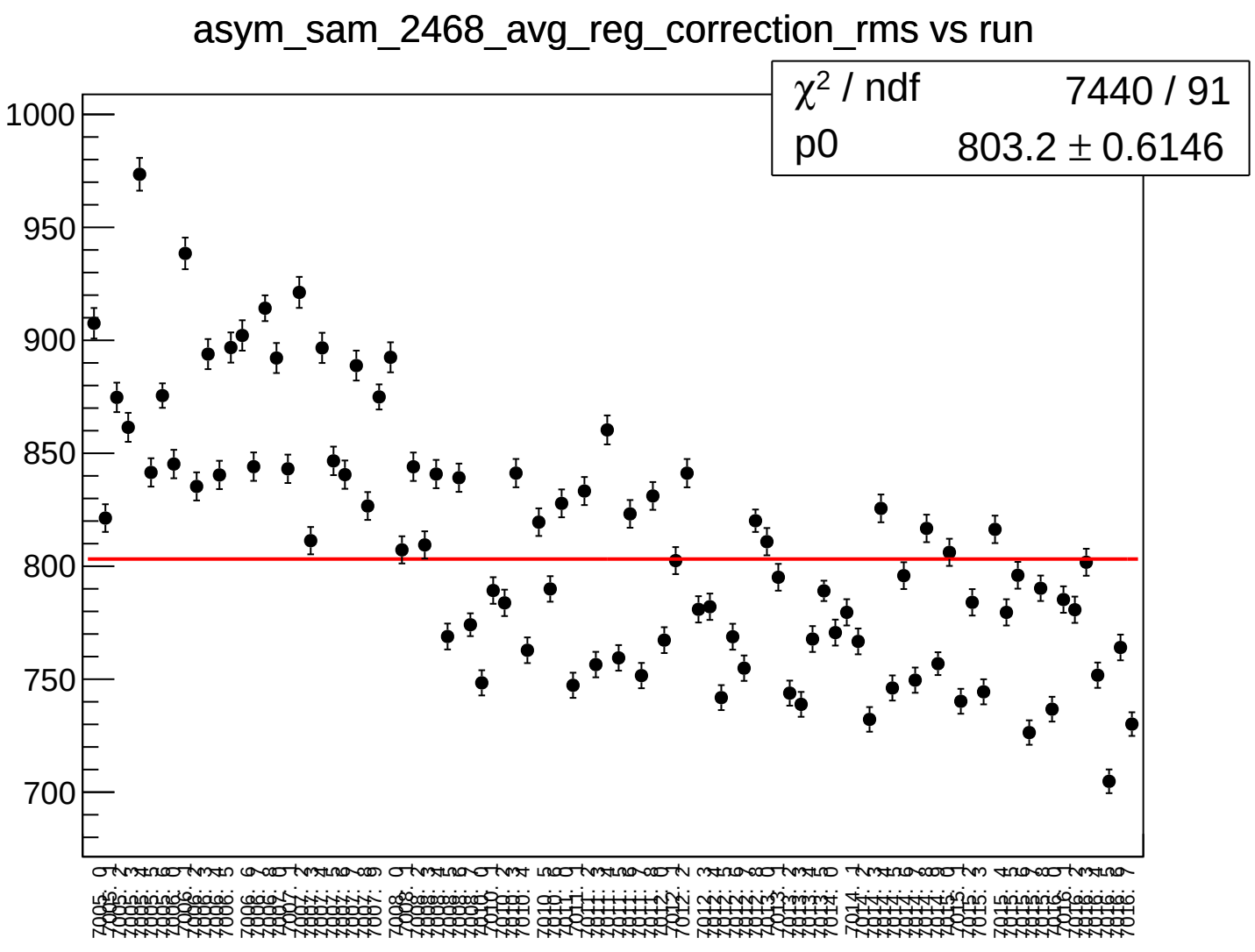

pull1D
Entries 92
Mean 0.01228
Std Dev 0.8981
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

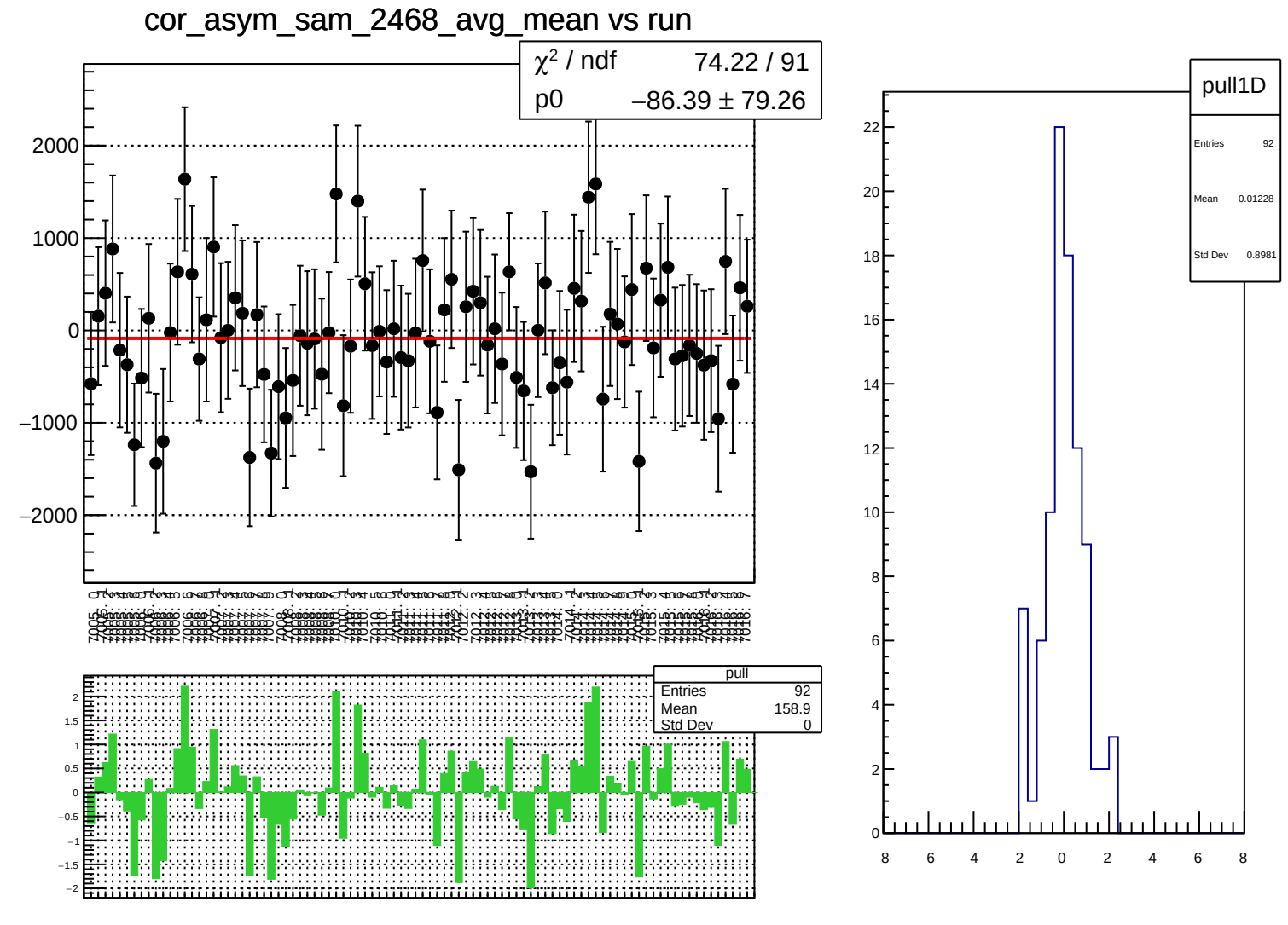
# reg_asym_sam_2468_avg_rms vs run

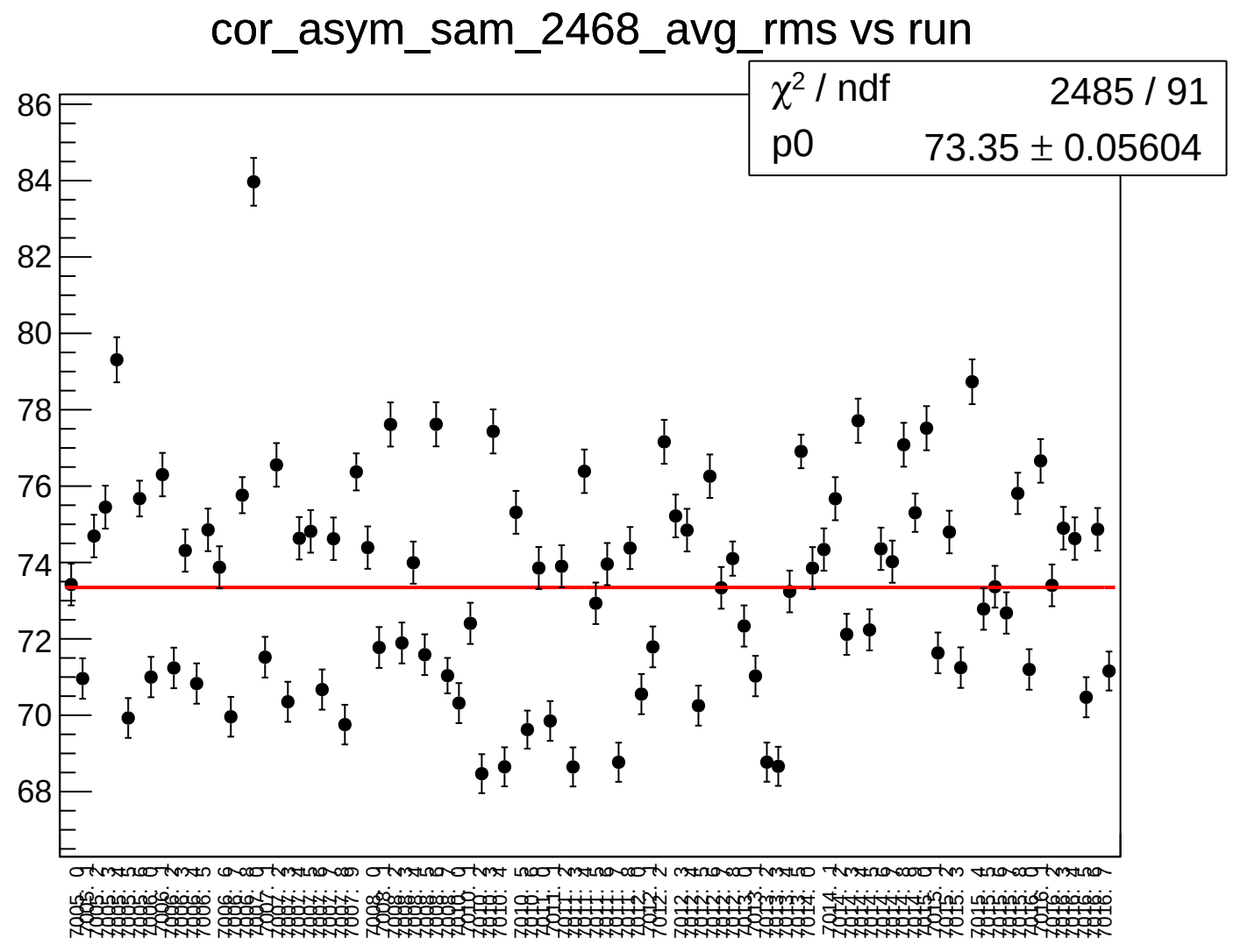


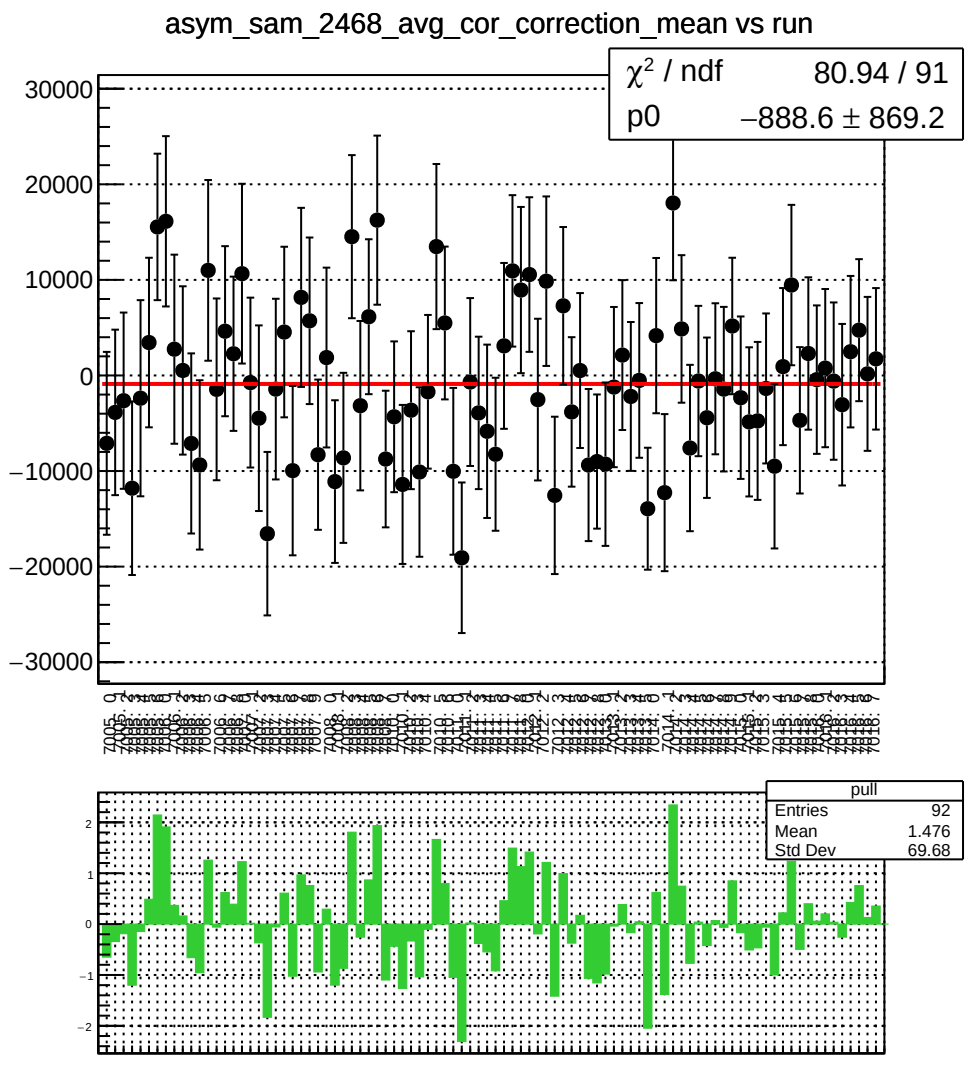

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 80.94 / 91
p0 −888.6 ± 869.2
pull
Entries 92
Mean 1.481
Std Dev 69.68

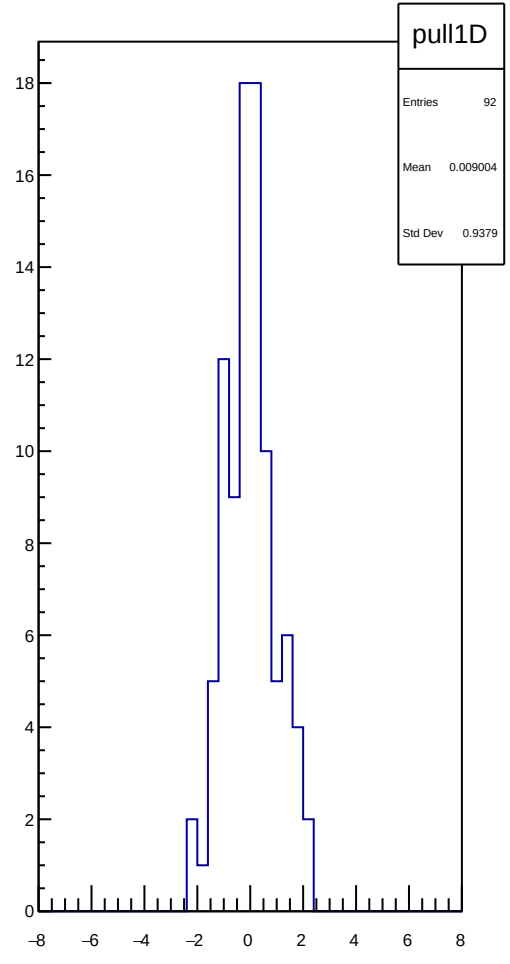

pull1D
Entries 92
Mean 0.009005
Std Dev 0.9379

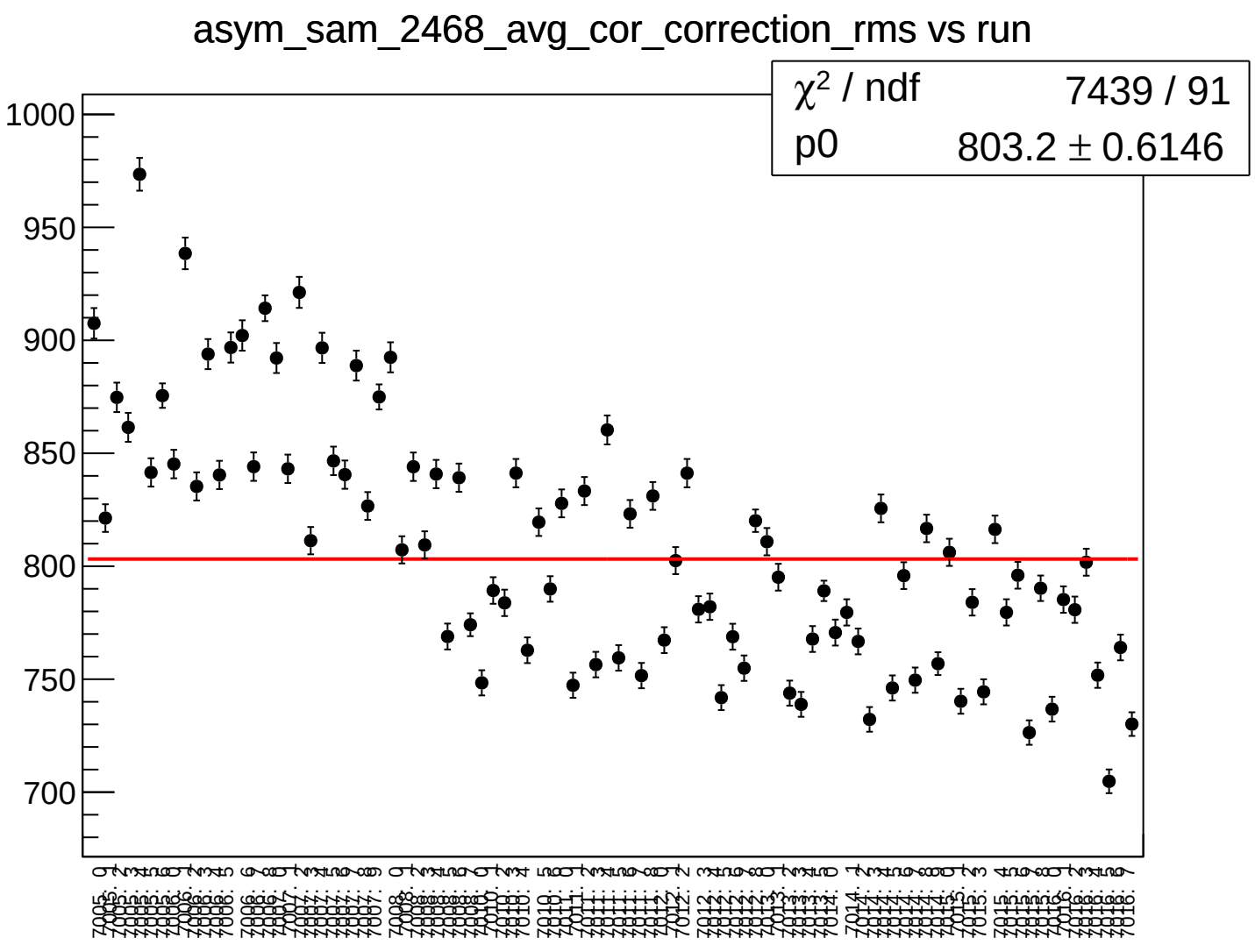

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 7440 / 91
p0 803.2 ± 0.6146
1000
950
900
850
800
750
700

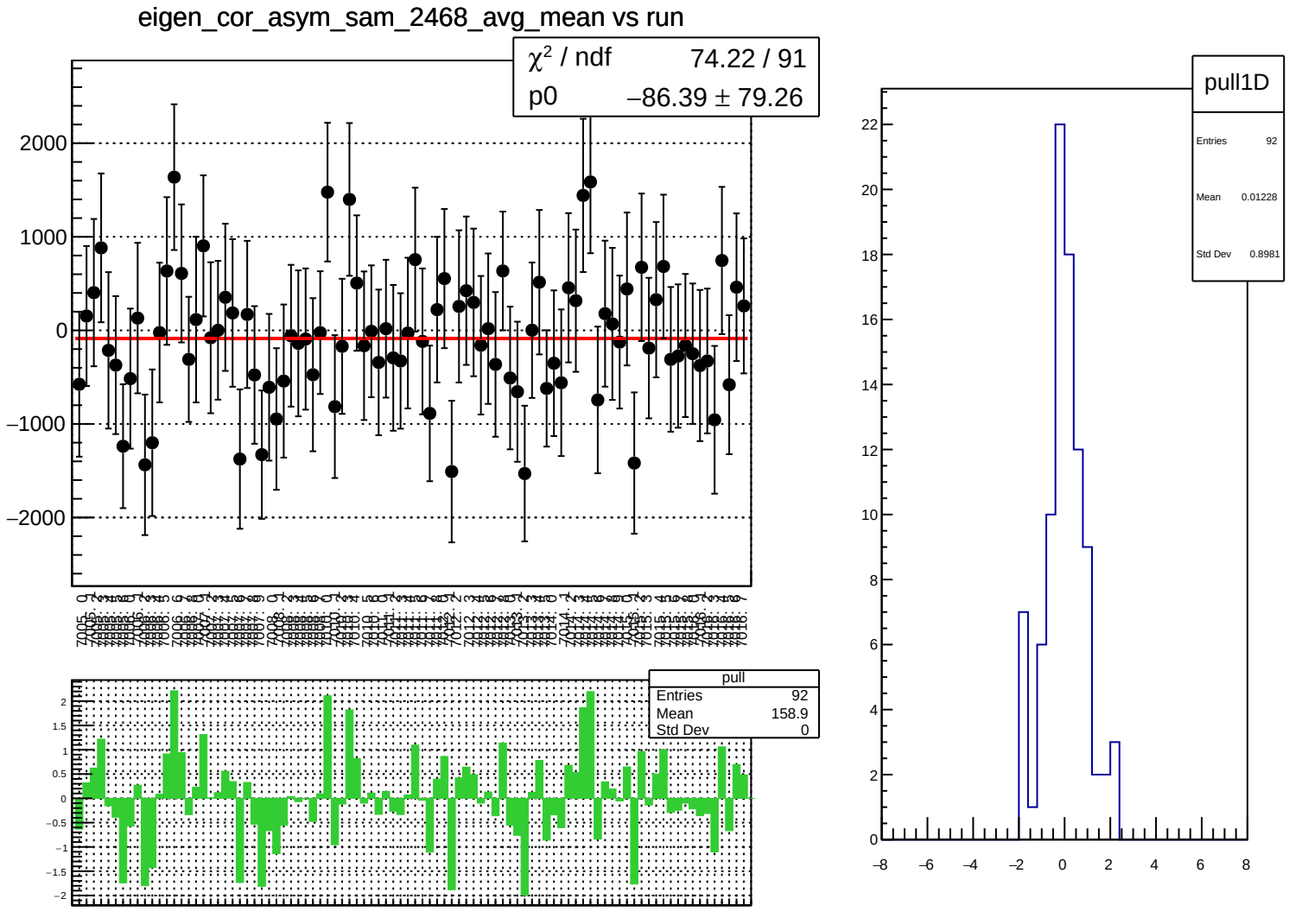

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 74.22 / 91
p0 −86.39 ± 79.26
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 158.9
Std Dev 0
pull1D
Entries 92
Mean 0.01228
Std Dev 0.8981

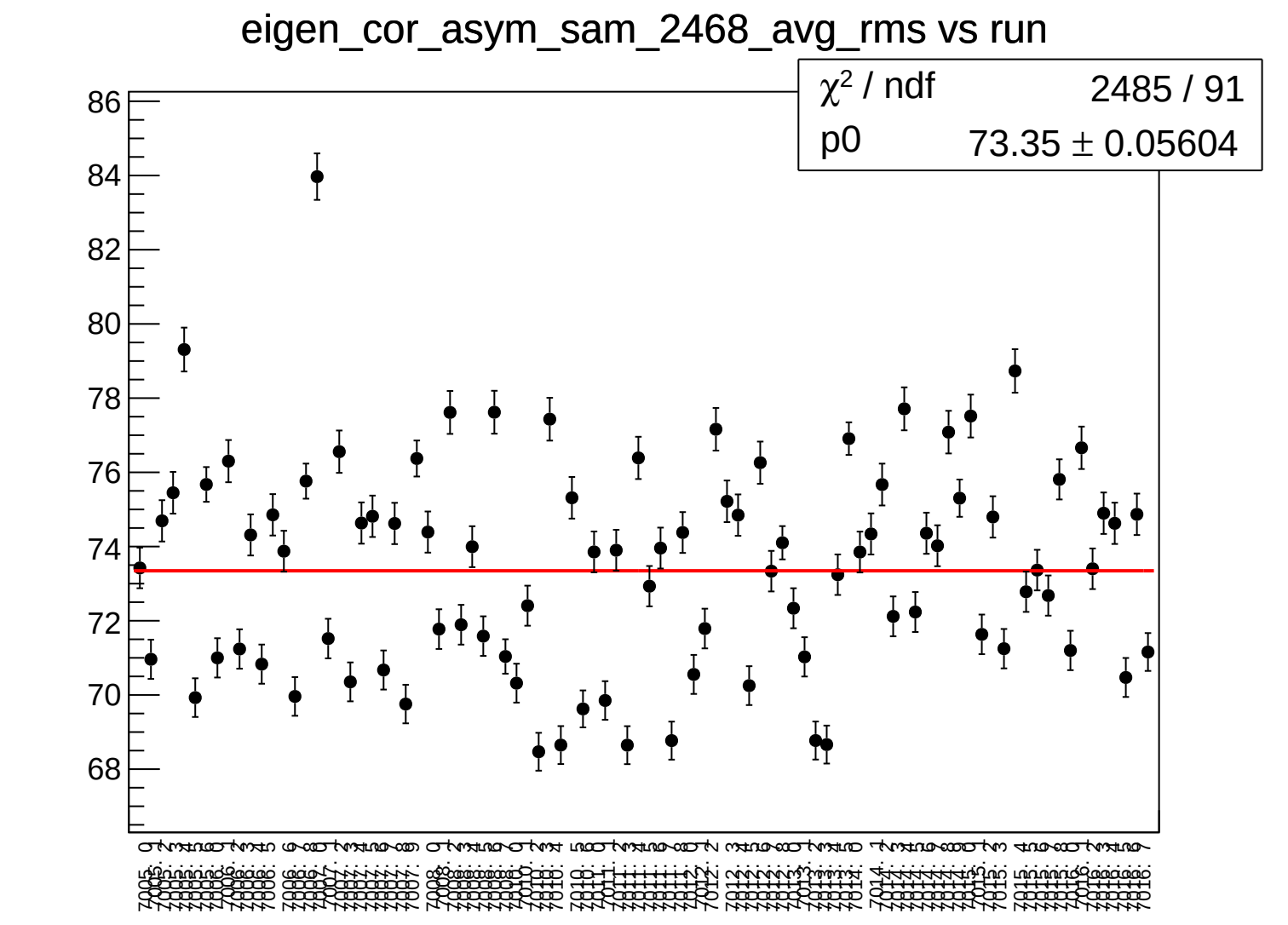

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2485 / 91
p0 73.35 ± 0.05604
86
84
82
80
78
76
74
72
70
68

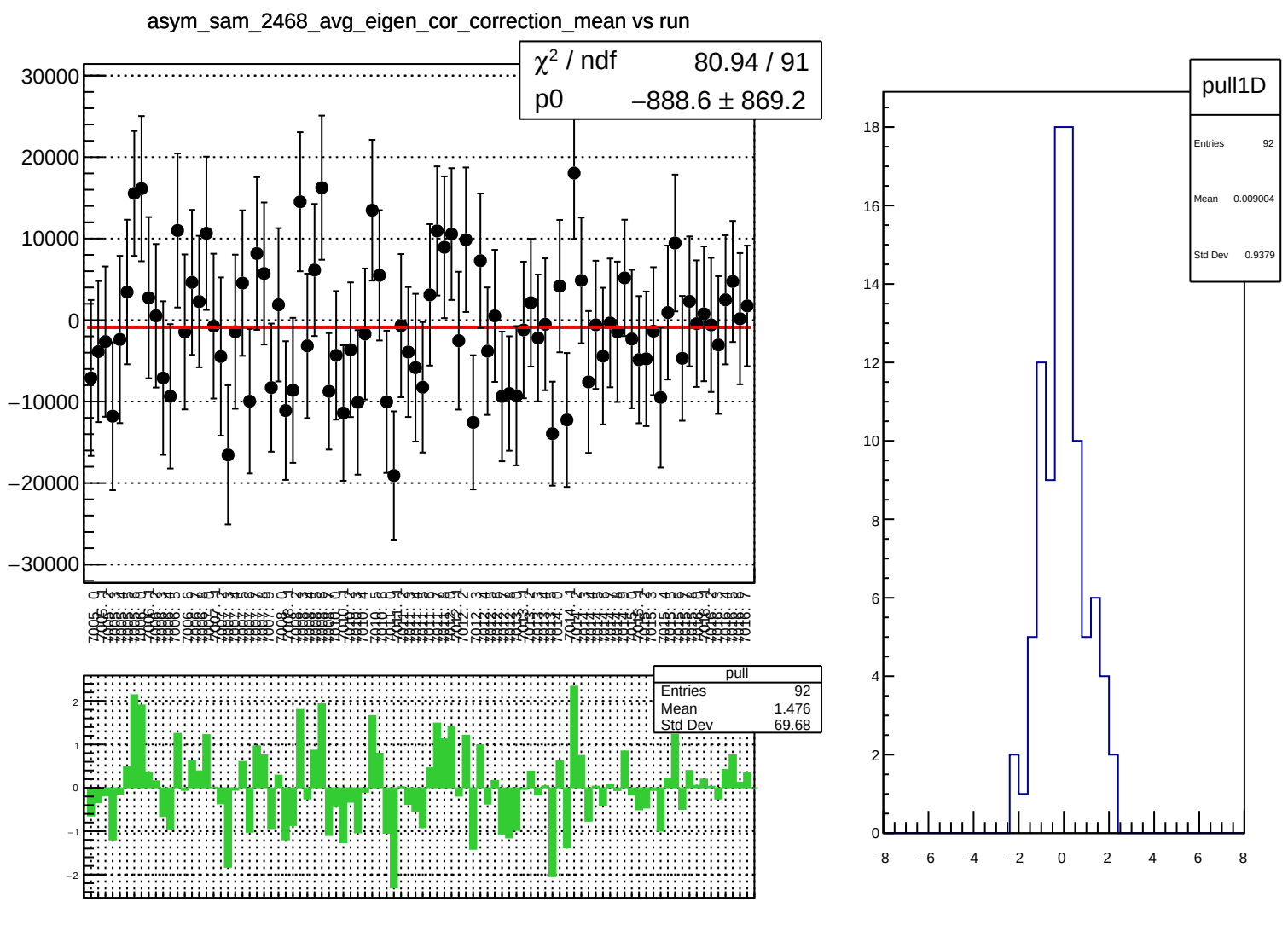

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 80.94 / 91
p0 −888.6 ± 869.2
pull
Entries 92
Mean 1.476
Std Dev 69.68

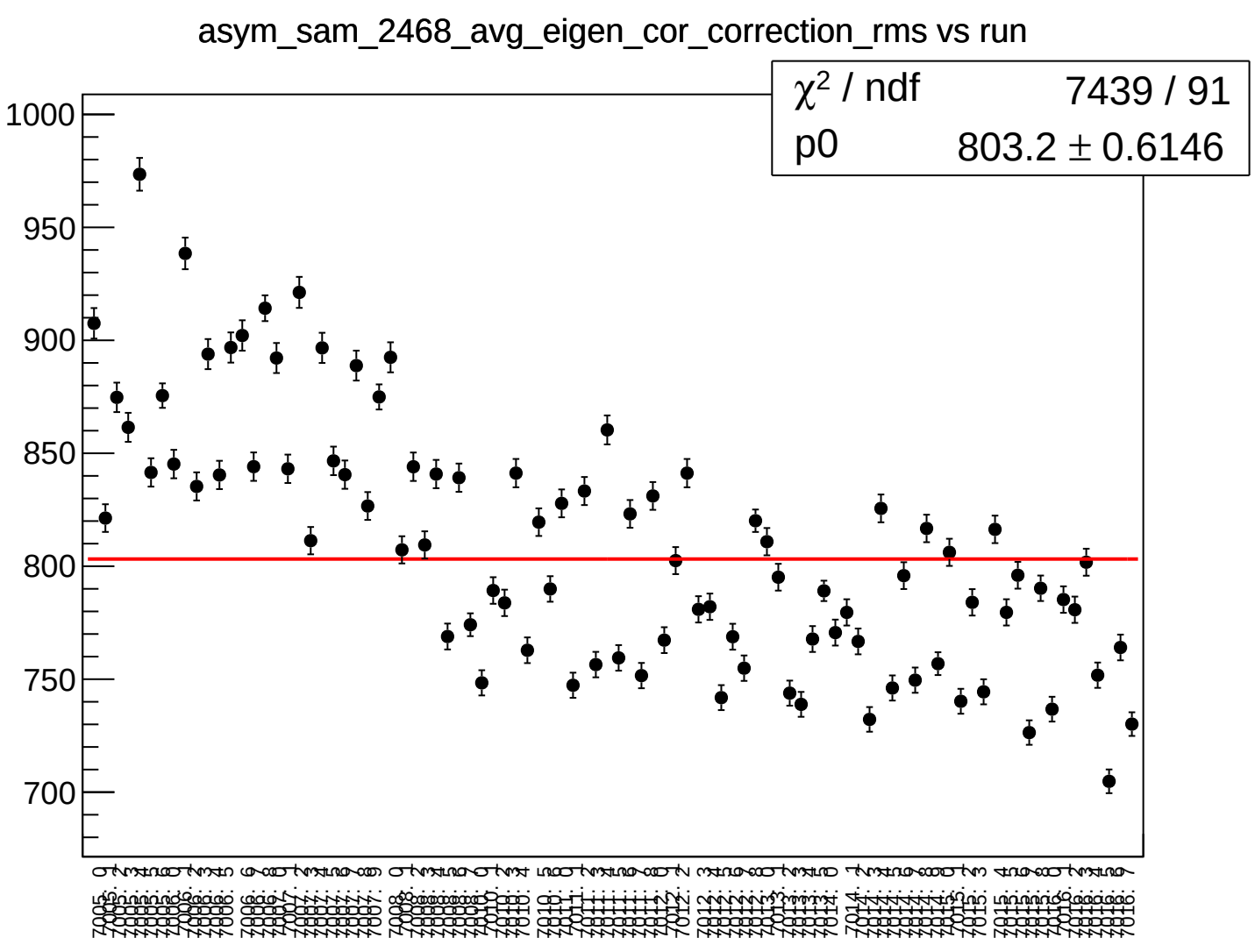

pull1D
Entries 92
Mean 0.009004
Std Dev 0.9379

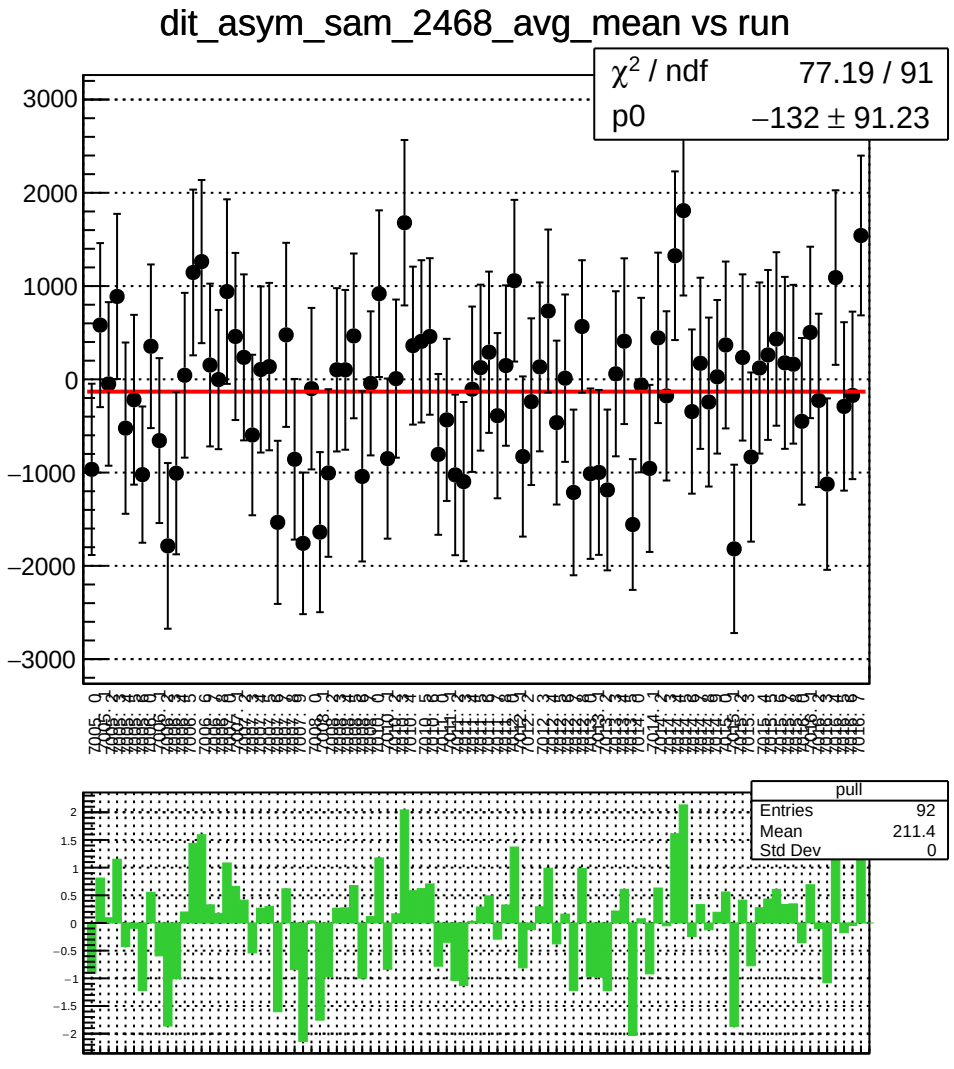

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 7439 / 91
p0 803.2 ± 0.6146
1000
950
900
850
800
750
700

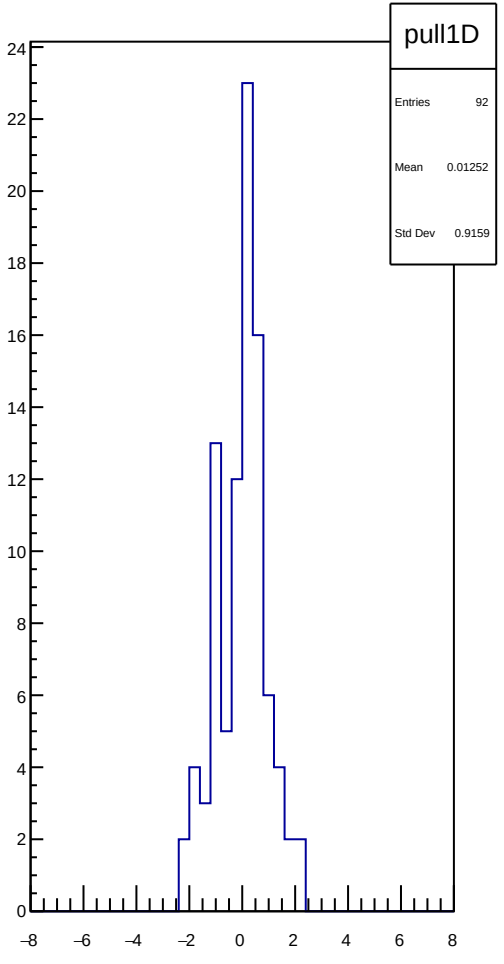

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 74.22 / 91
p0 −86.39 ± 79.26
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 158.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.01228
Std Dev 0.8981
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

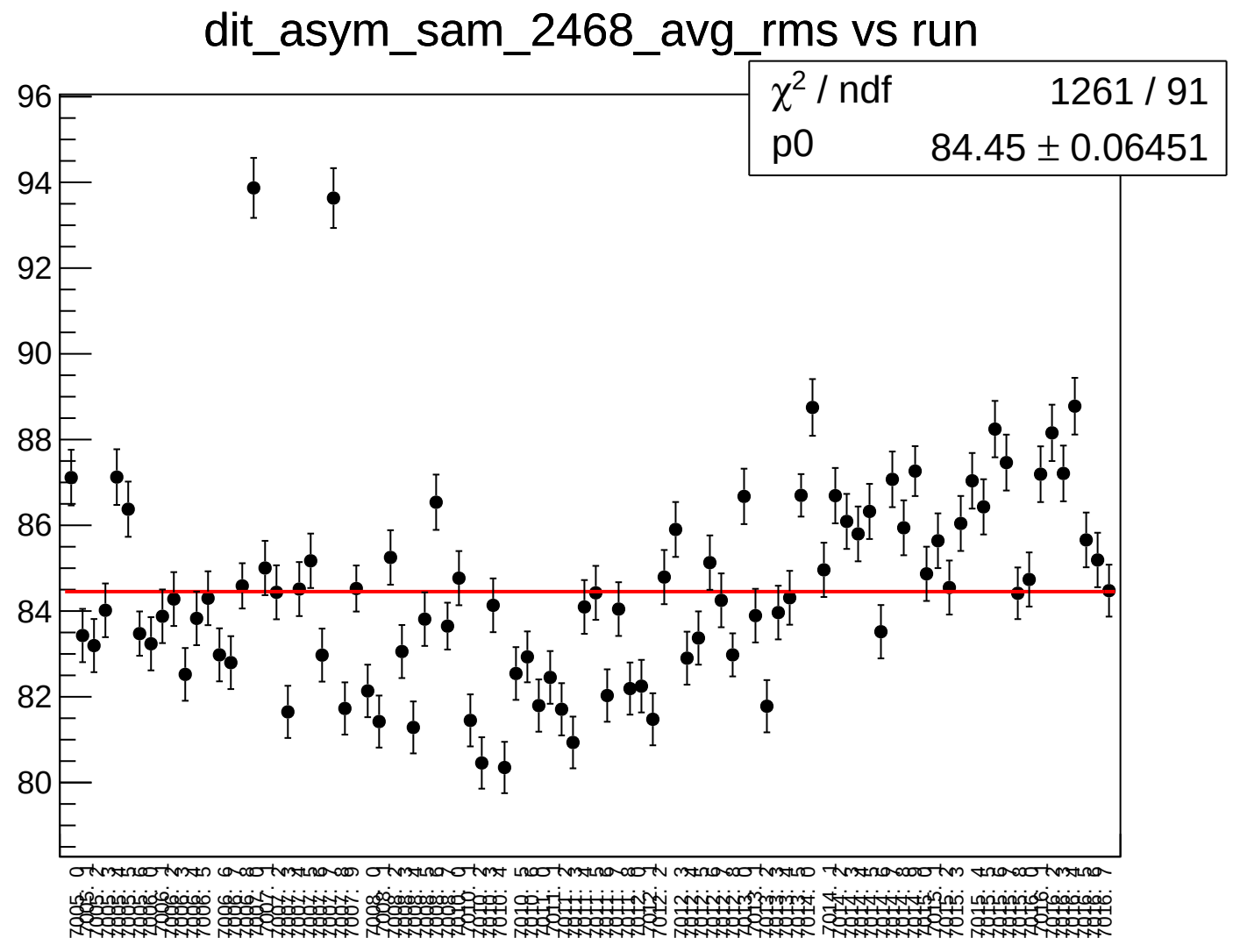

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 2485 / 91
p0 73.35 ± 0.05604
86
84
82
80
78
76
74
72
70
68

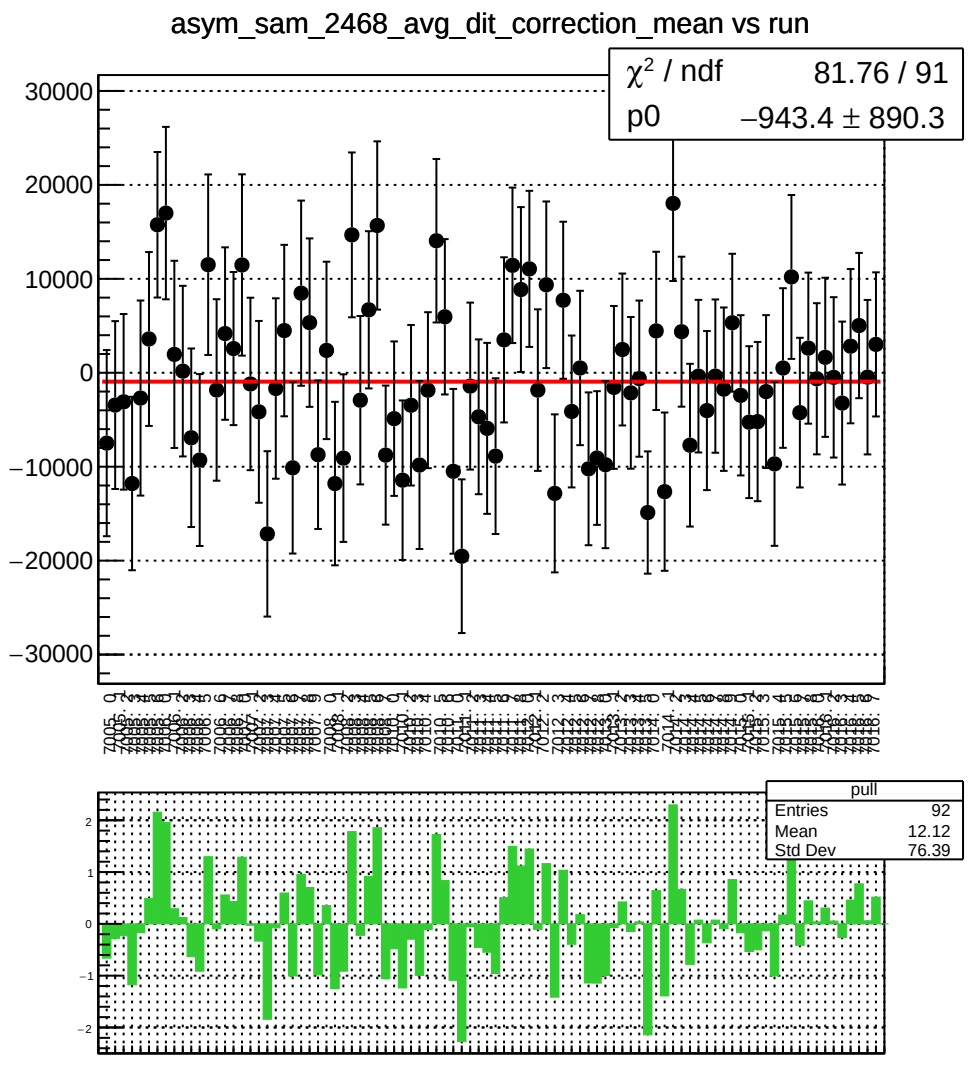

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 80.94 / 91
p0 −888.6 ± 869.2
pull
Entries 92
Mean 1.476
Std Dev 69.68
pull1D
Entries 92
Mean 0.009004
Std Dev 0.9379

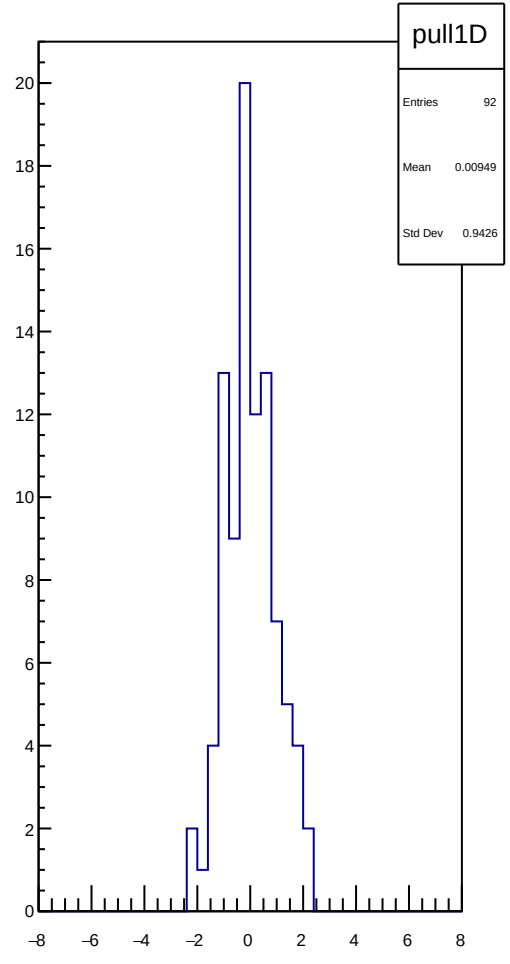

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 7439 / 91
p0 803.2 ± 0.6146
1000
950
900
850
800
750
700

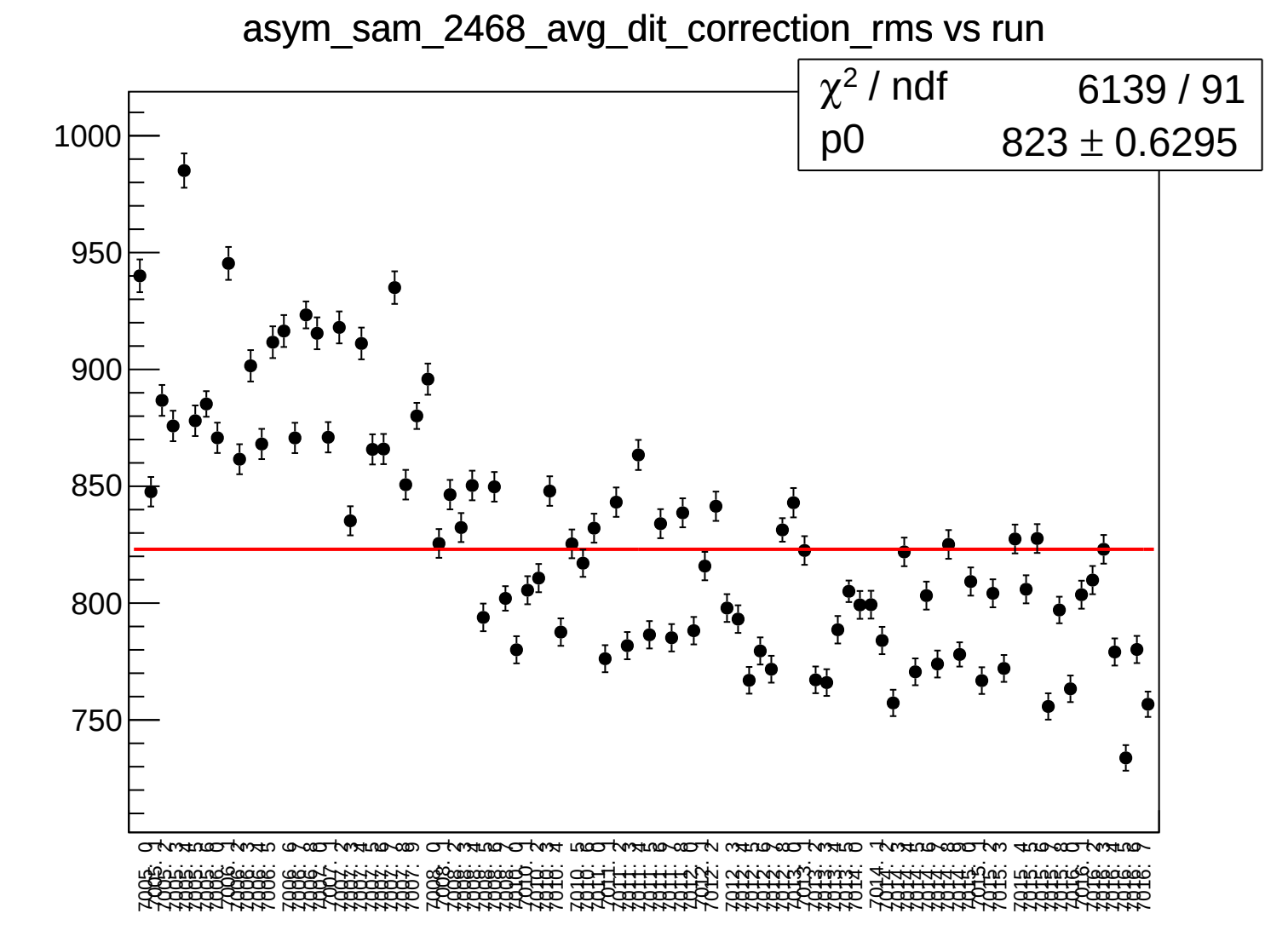

dit_asym_sam_2468_avg_mean vs run
$\chi^2$ / ndf 77.19 / 91
p0 −132 ± 91.23
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 92
Mean 211.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

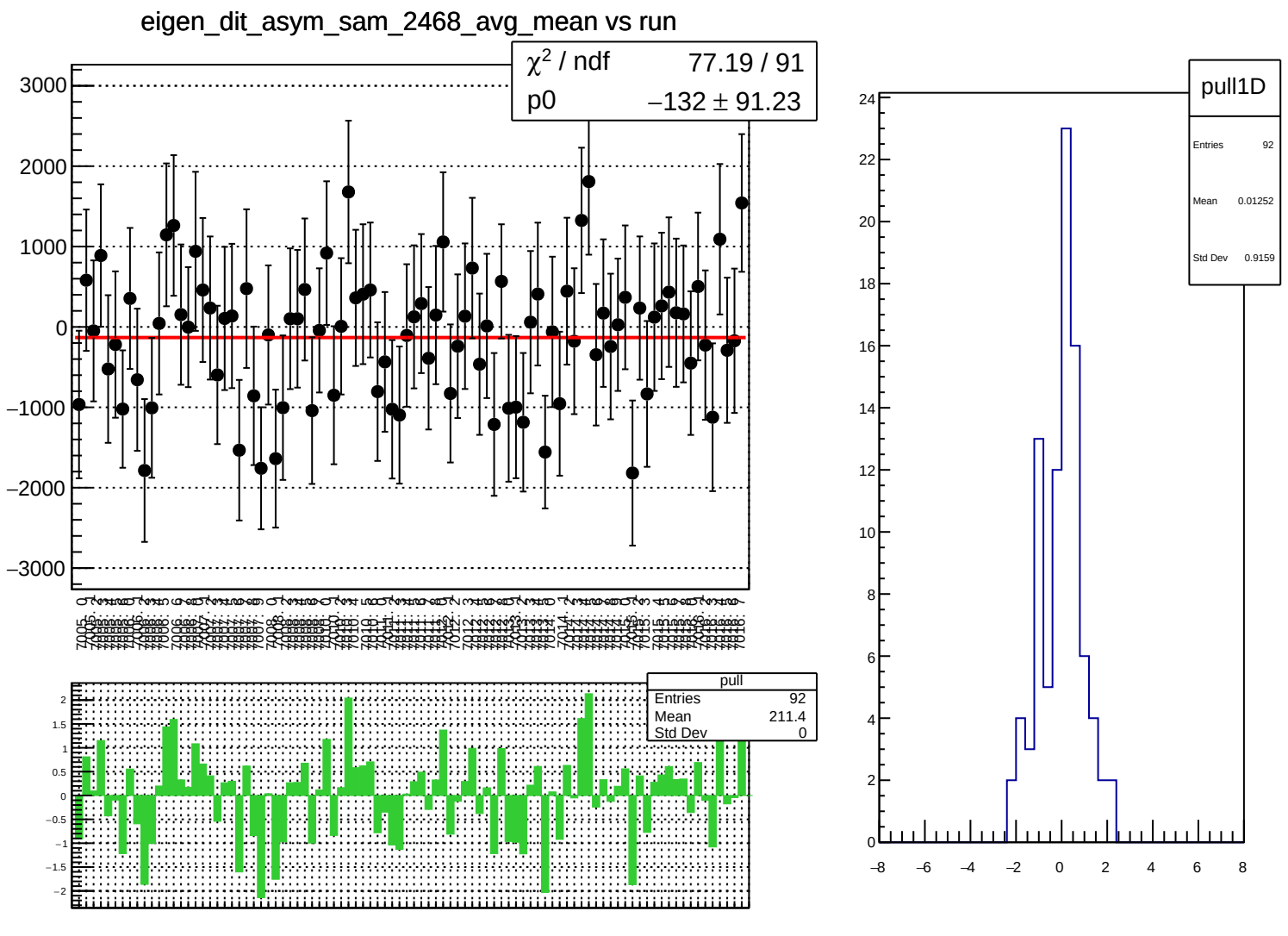

pull1D
Entries 92
Mean 0.01252
Std Dev 0.9159
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

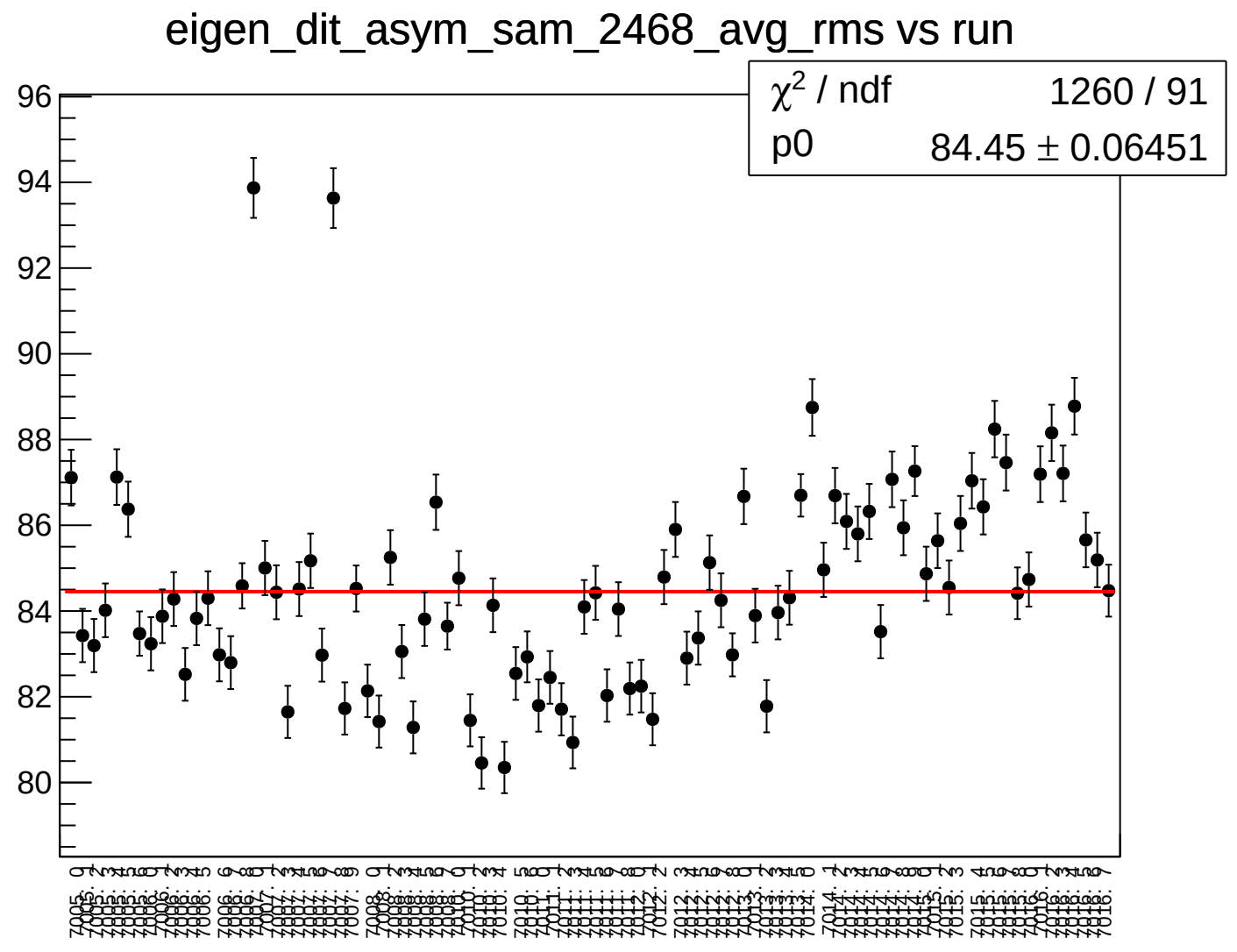

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1261 / 91
p0 84.45 ± 0.06451
96
94
92
90
88
86
84
82
80

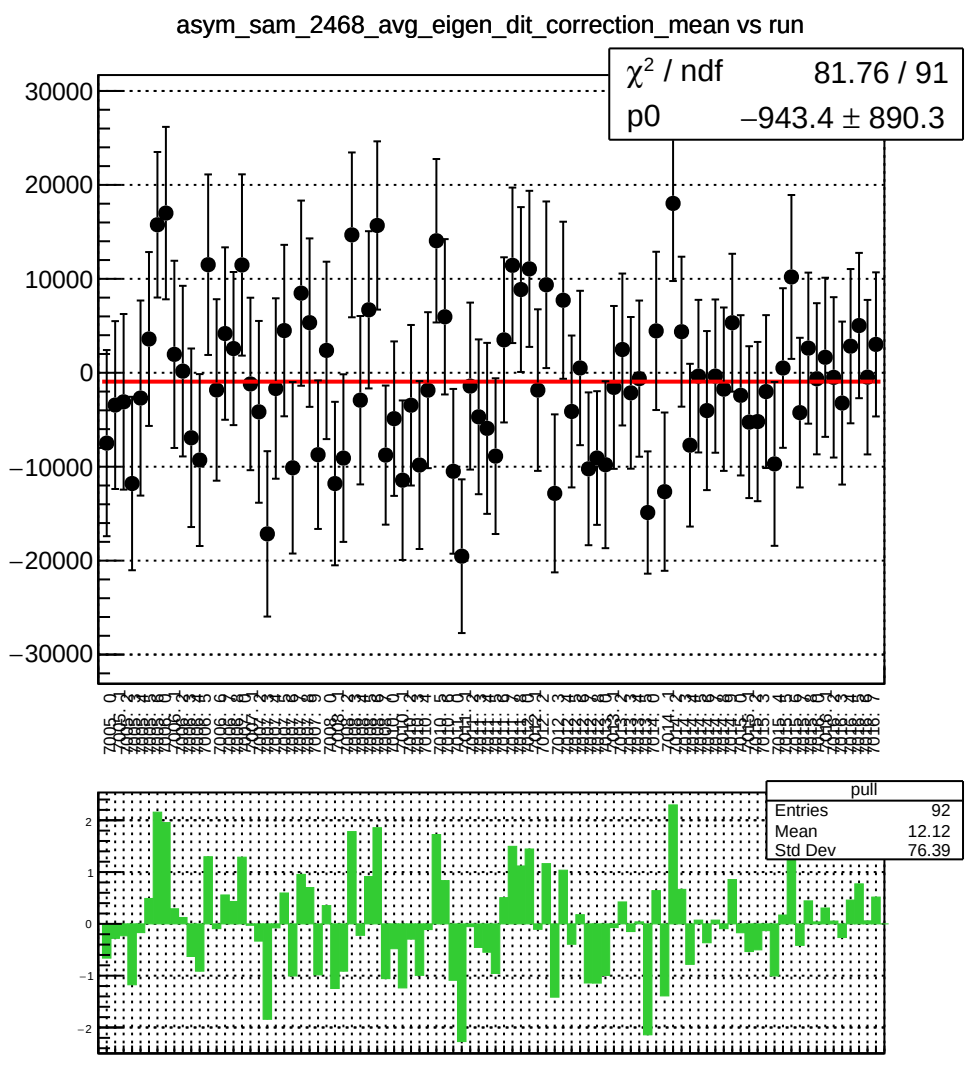

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 81.76 / 91
p0 −943.4 ± 890.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 12.12
Std Dev 76.39
2
1
0
−1
−2

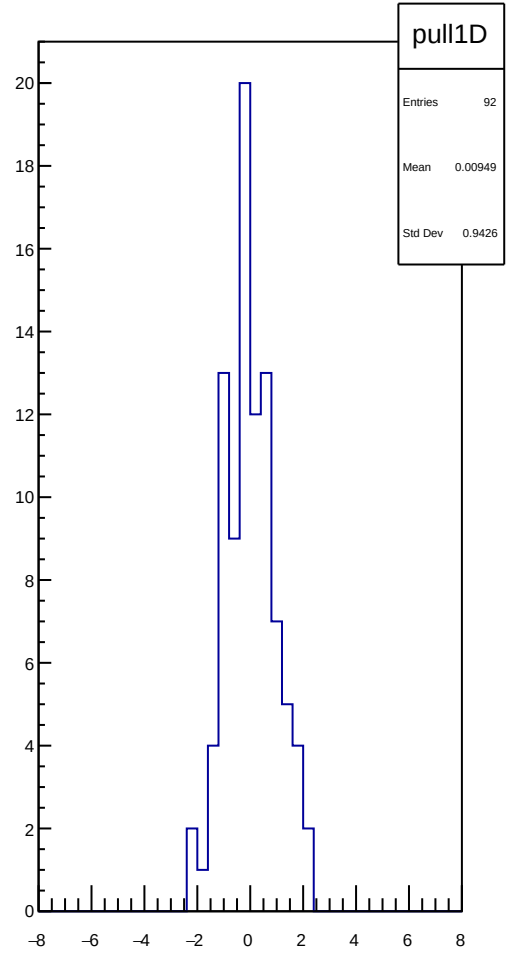

pull1D
Entries 92
Mean 0.00949
Std Dev 0.9426
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

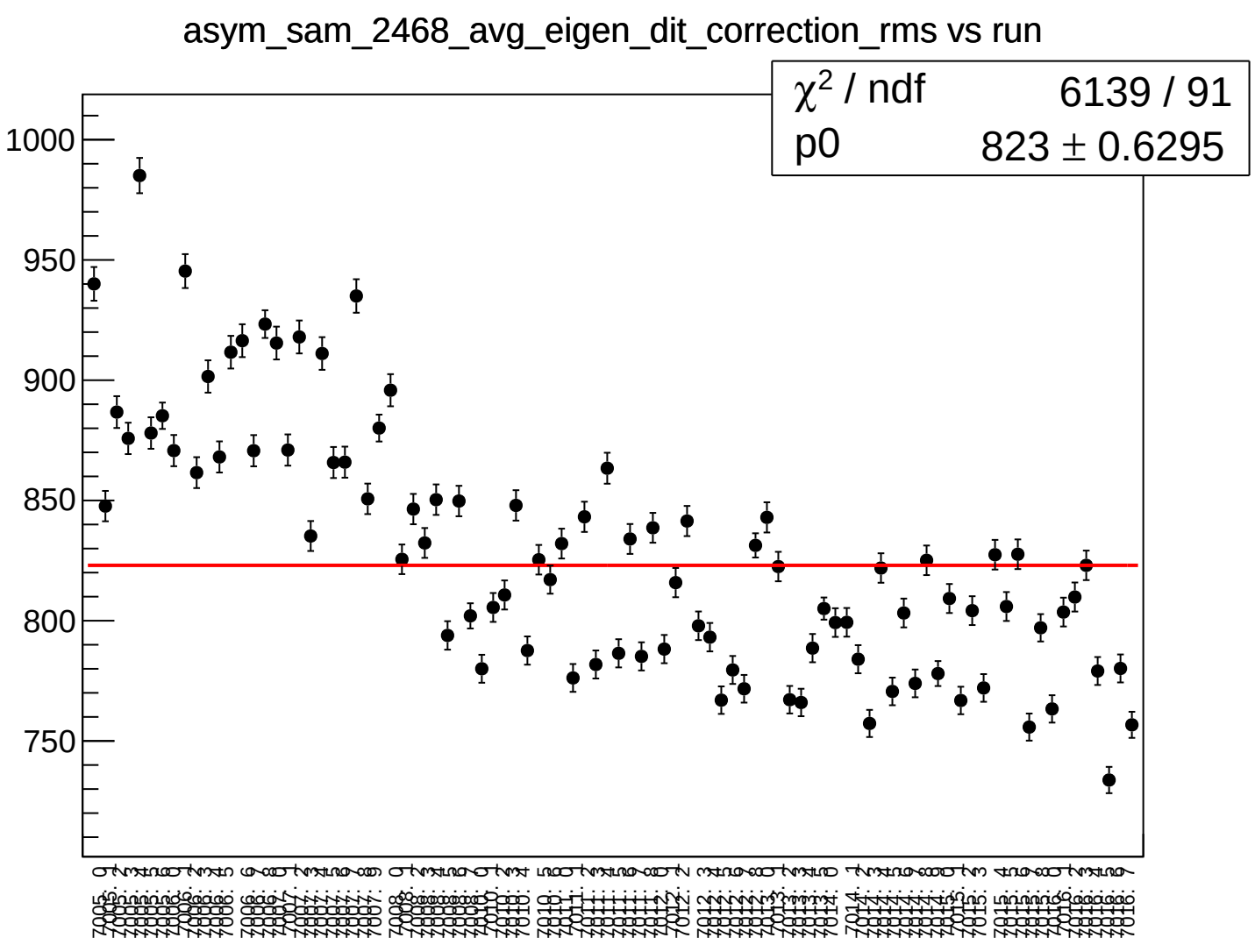

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 6139 / 91
p0 823 ± 0.6295
1000
950
900
850
800
750

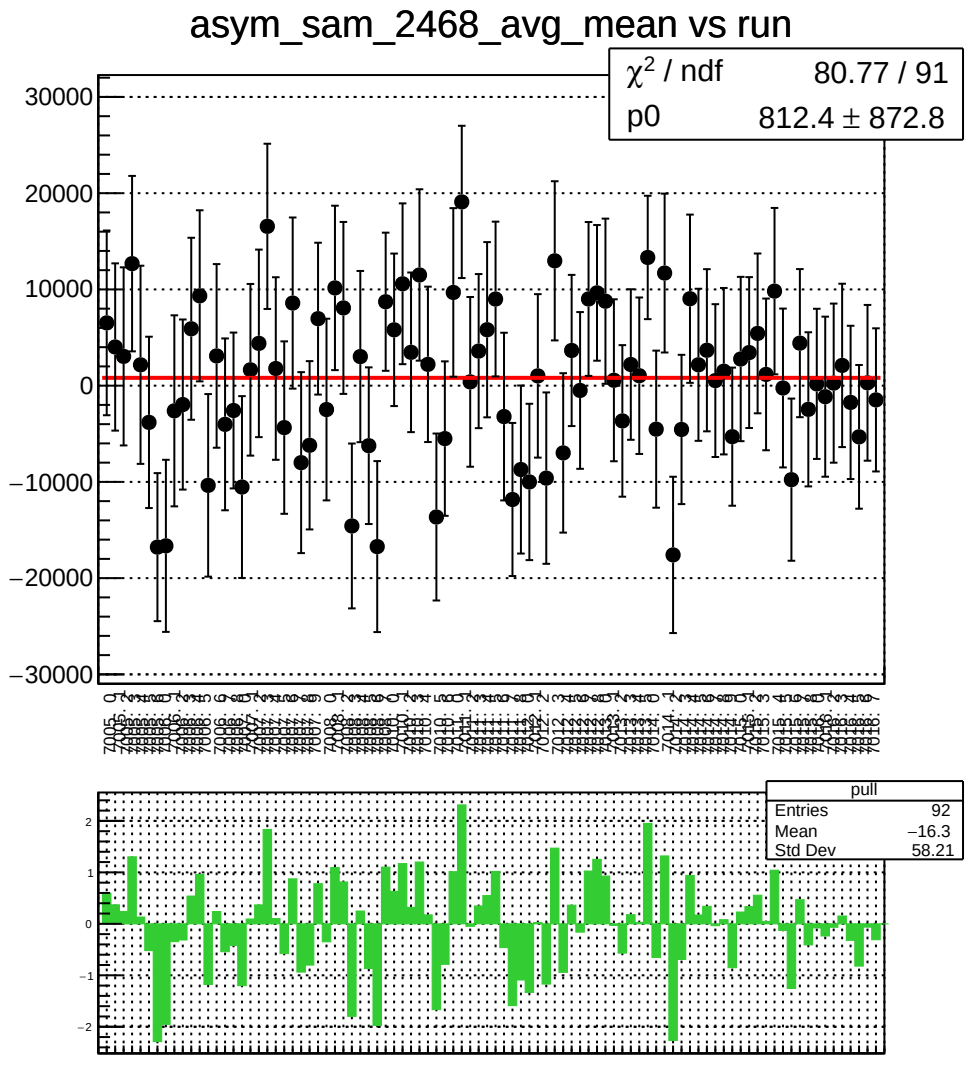

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 77.19 / 91
p0 −132 ± 91.23
pull
Entries 92
Mean 211.4
Std Dev 0
pull1D
Entries 92
Mean 0.01252
Std Dev 0.9159

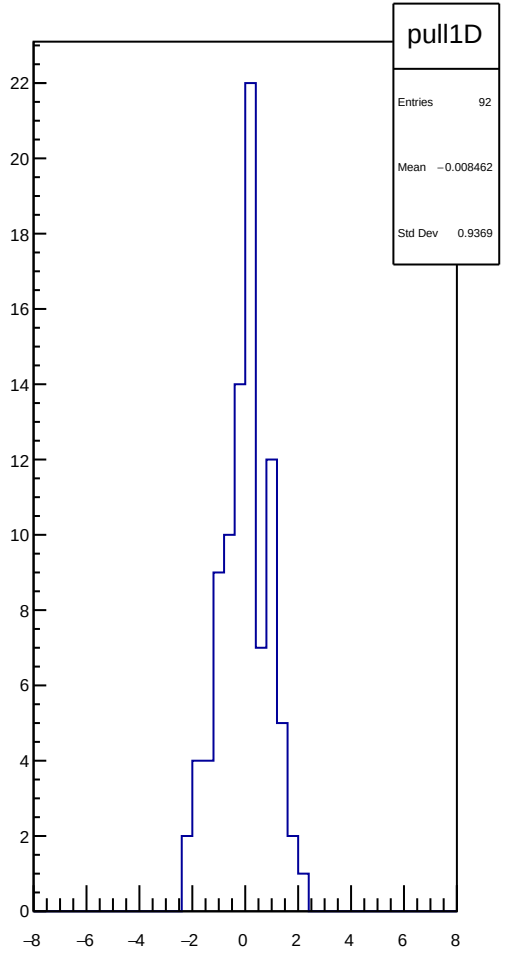

eigen_dit_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 1260 / 91
p0 84.45 ± 0.06451
96
94
92
90
88
86
84
82
80

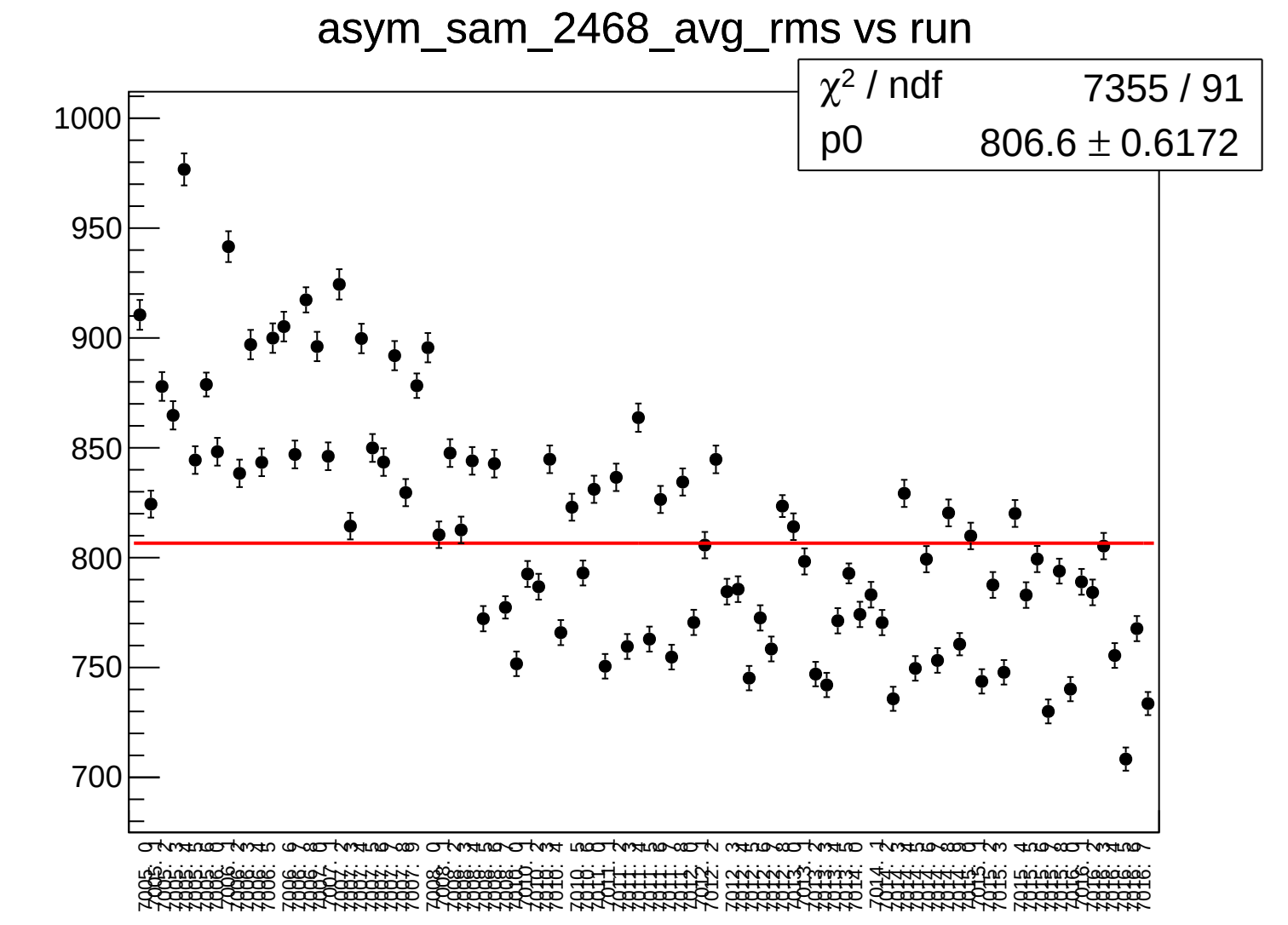

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 81.76 / 91
p0 −943.4 ± 890.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 12.12
Std Dev 76.39
2
1
0
−1
−2

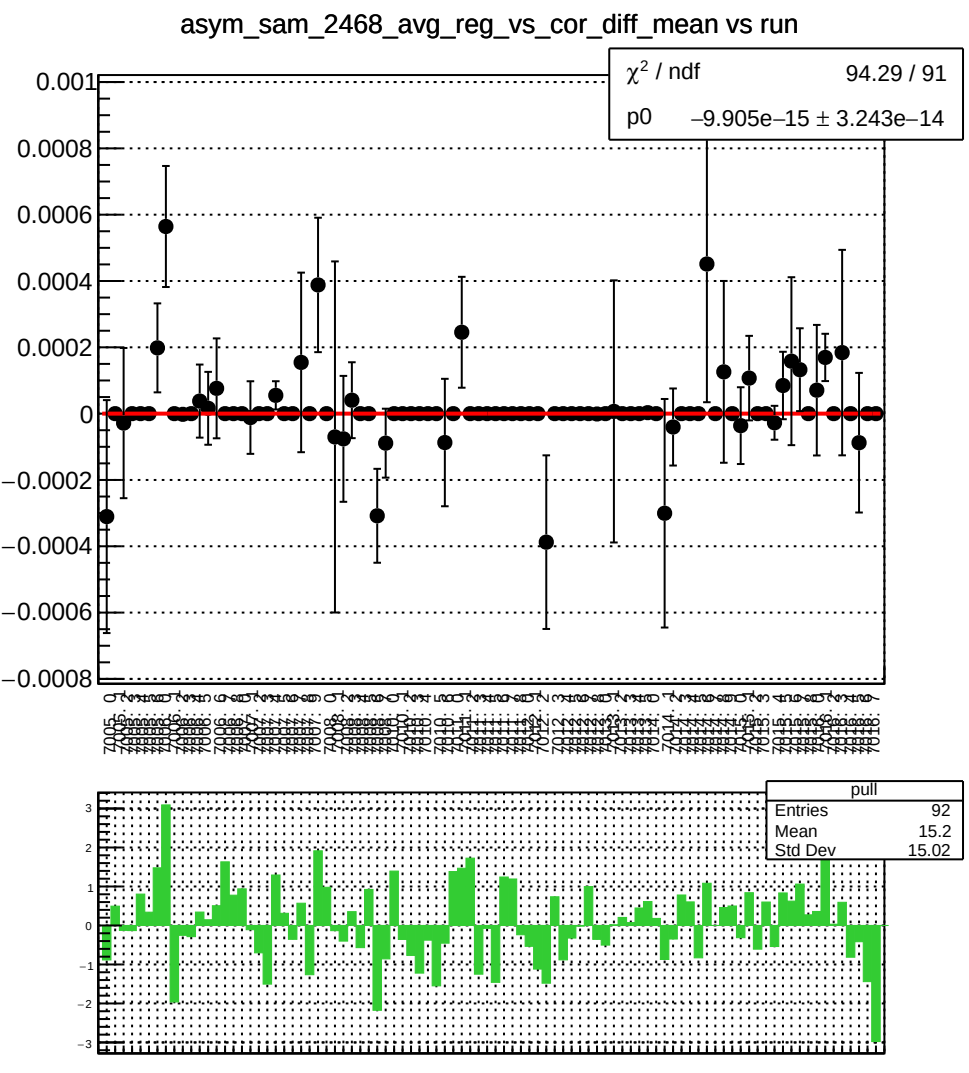

pull1D
Entries 92
Mean 0.00949
Std Dev 0.9426
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

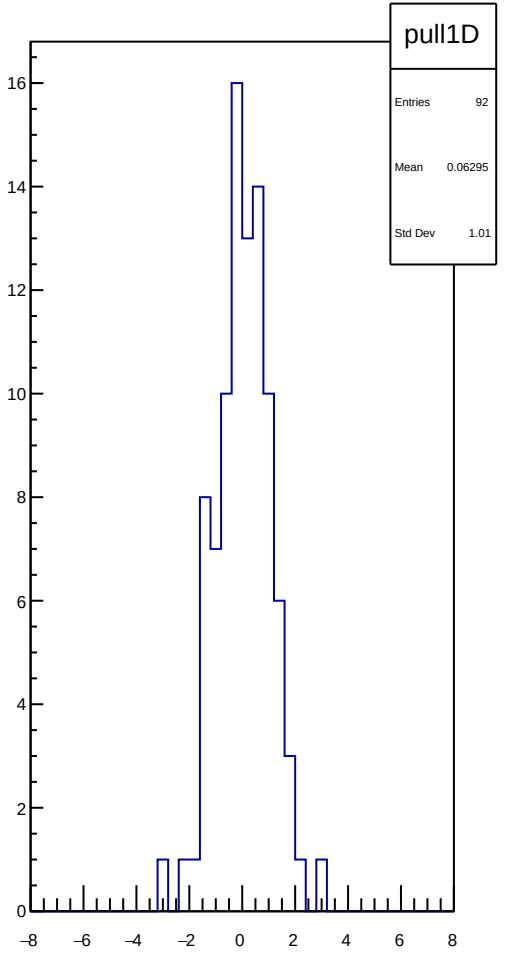

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 6139 / 91
p0 823 ± 0.6295
1000
950
900
850
800
750

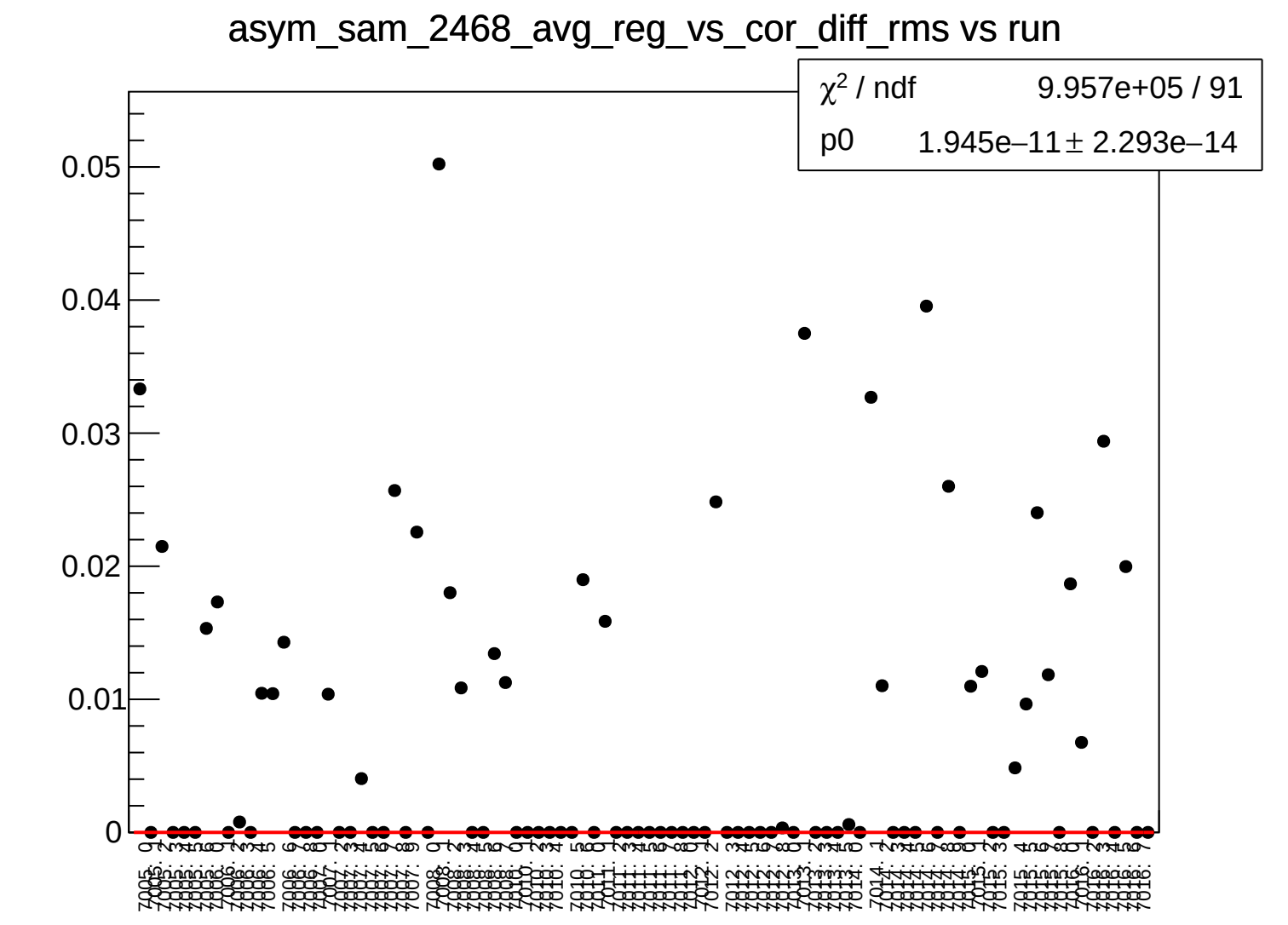

asym_sam_2468_avg_mean vs run
χ² / ndf 80.77 / 91
p0 812.4 ± 872.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −16.3
Std Dev 58.21
2
1
0
−1
−2

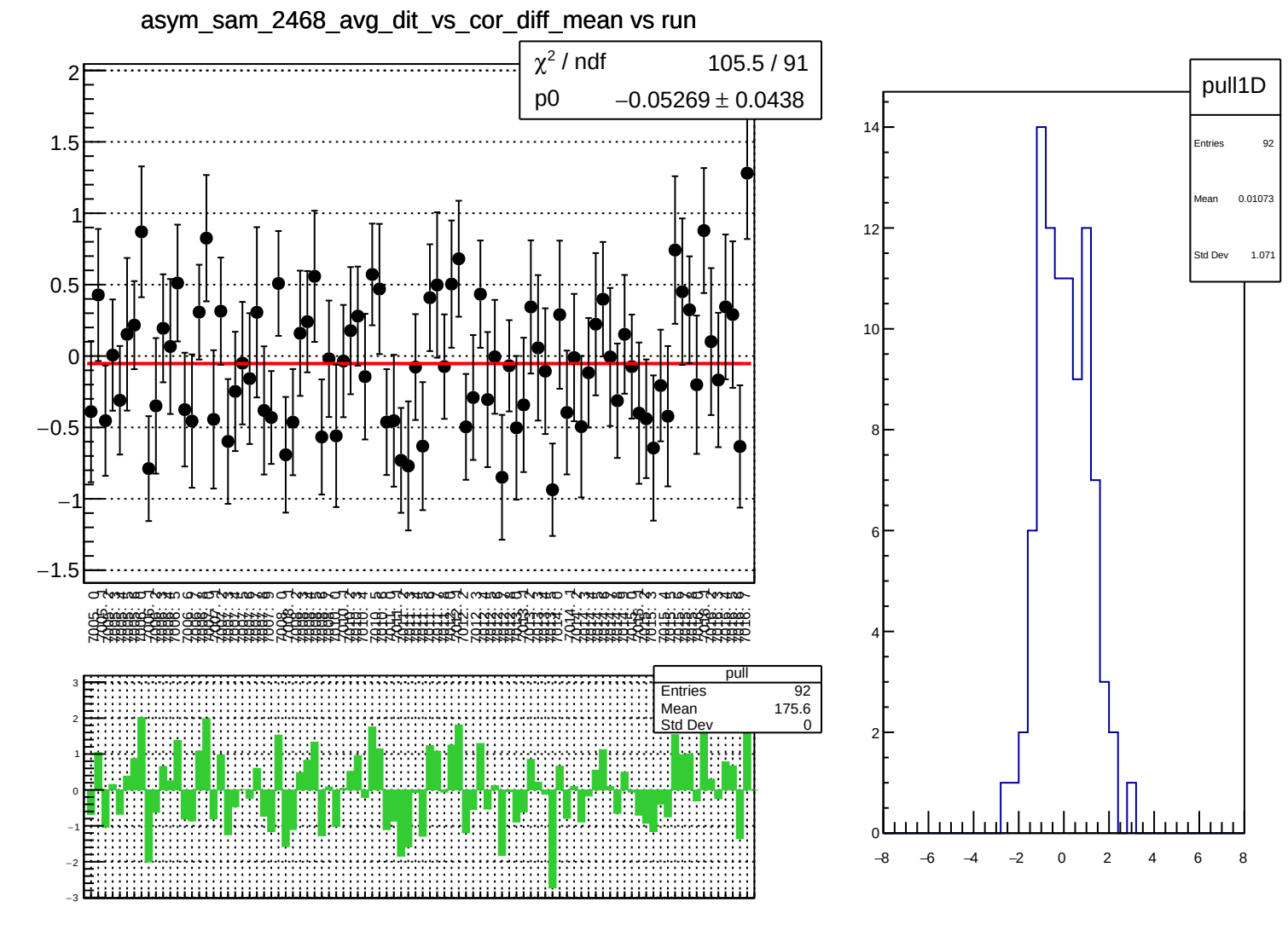

pull1D
Entries 92
Mean −0.008462
Std Dev 0.9369
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

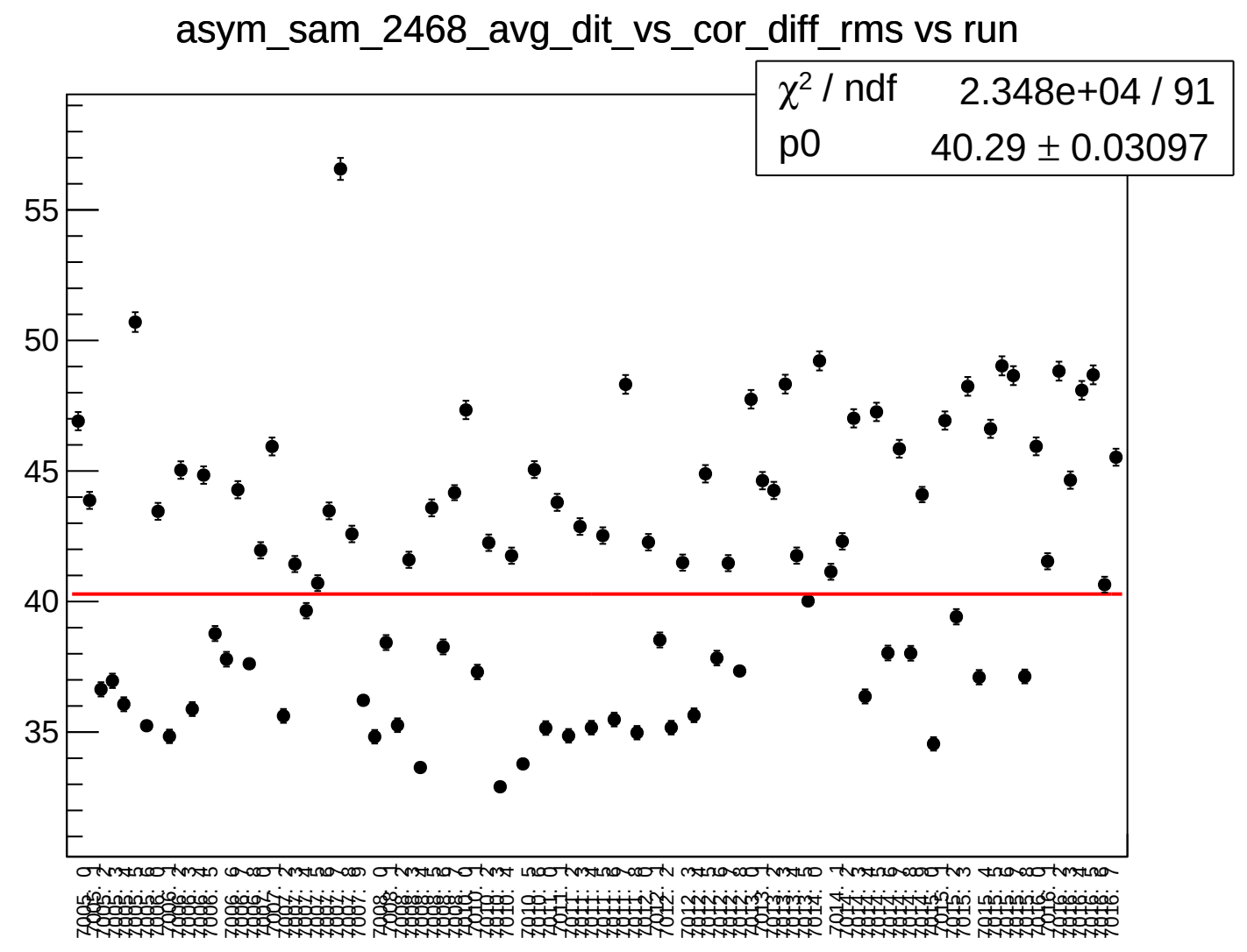

asym_sam_2468_avg_rms vs run
χ² / ndf 7355 / 91
p0 806.6 ± 0.6172
1000
950
900
850
800
750
700

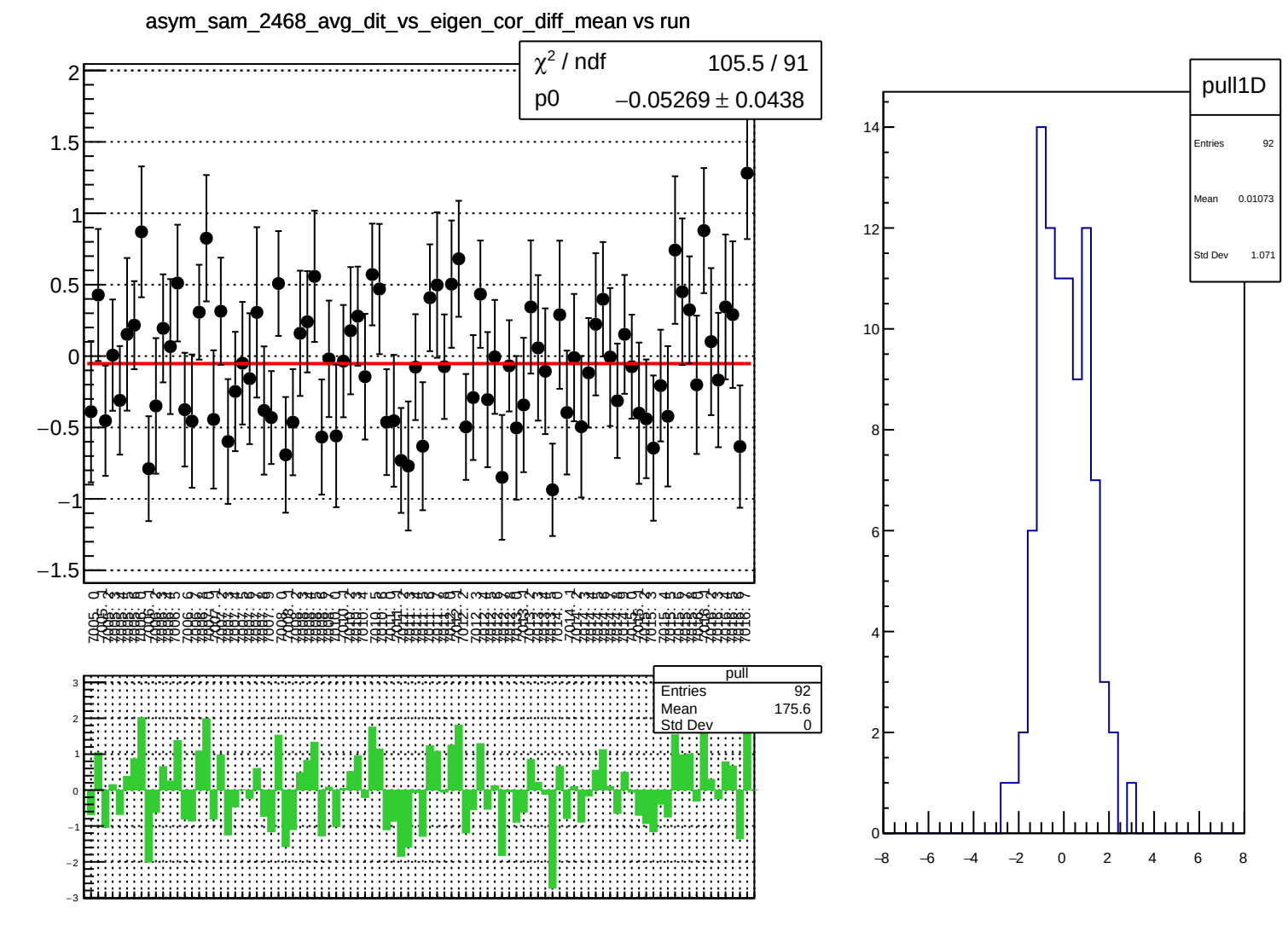

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.29 / 91
p0 −9.905e−15 ± 3.243e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 92
Mean 15.2
Std Dev 15.02
3
2
1
0
−1
−2
−3

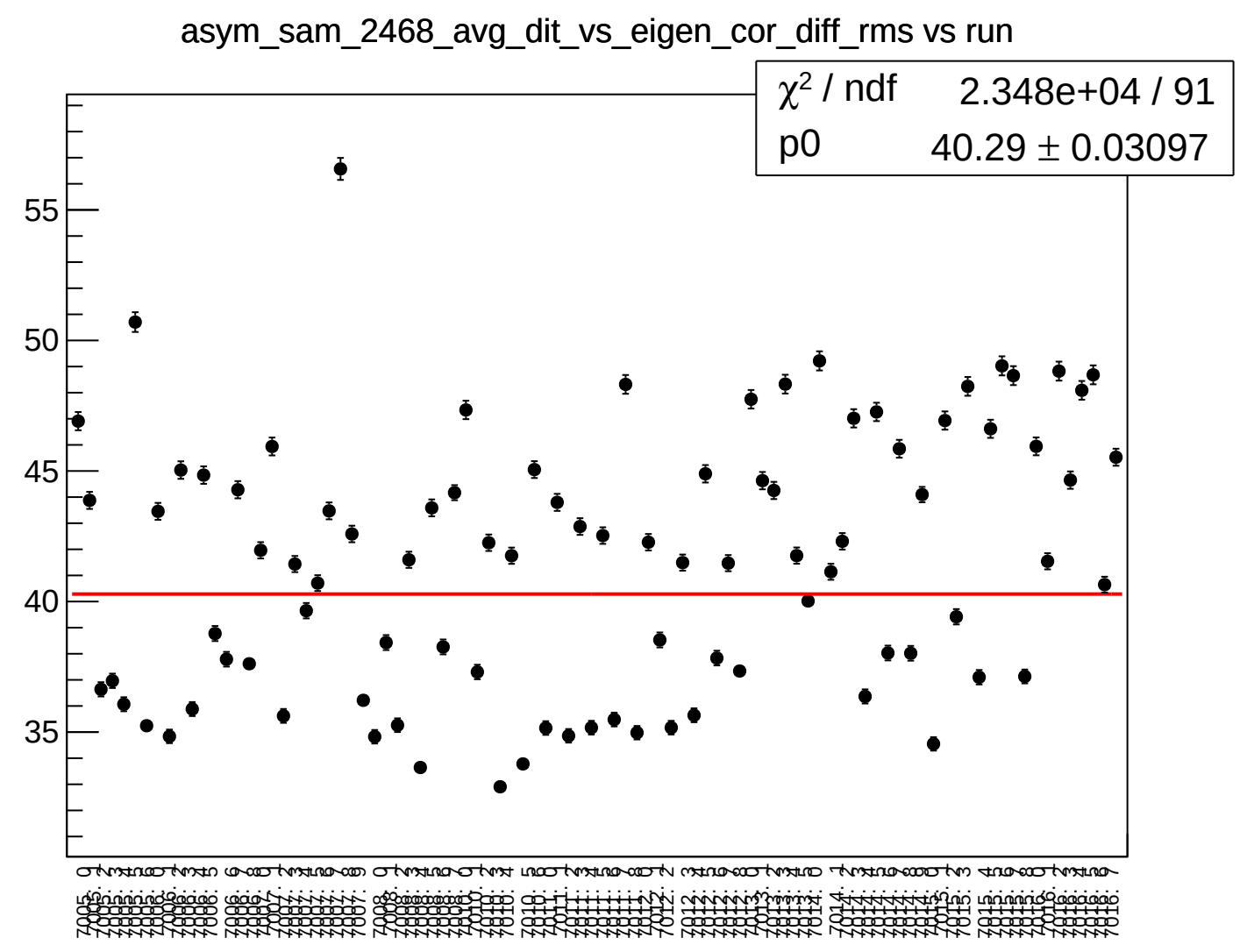

pull1D
Entries 92
Mean 0.06295
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

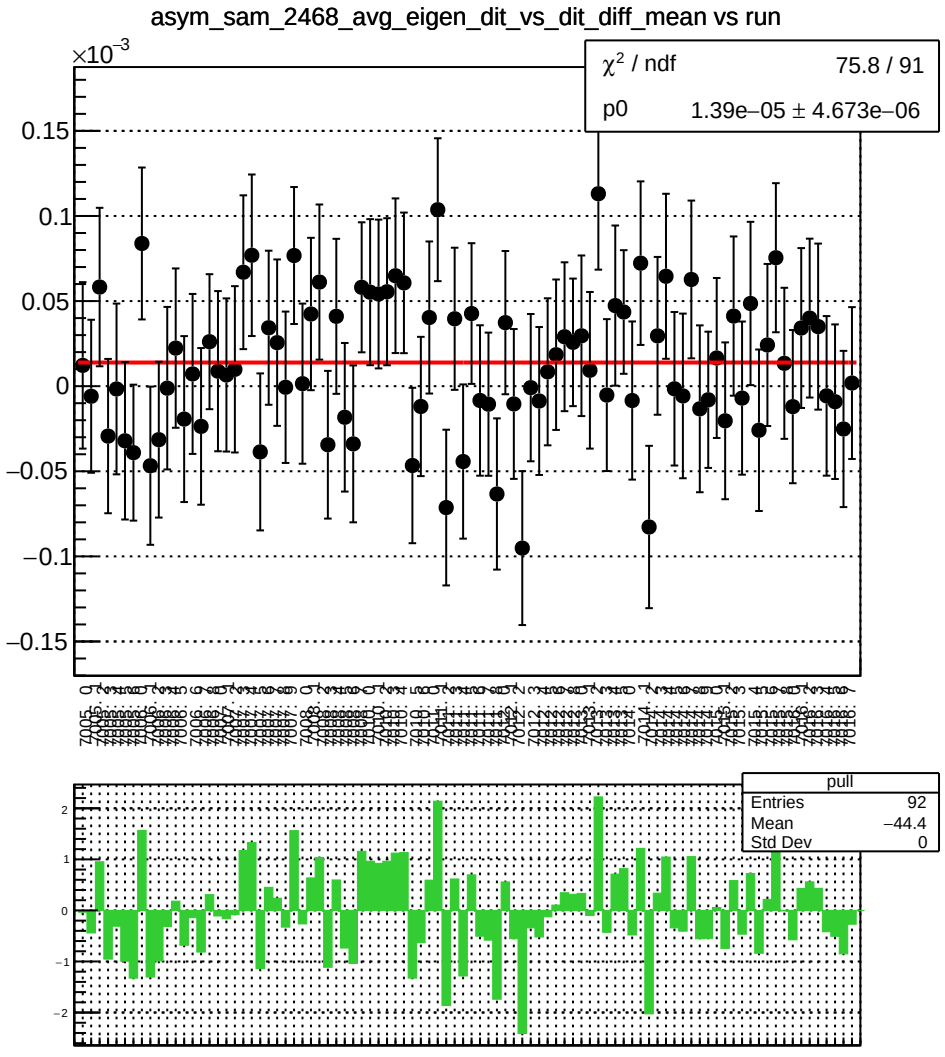

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.957e+05 / 91
p0 1.945e−11 ± 2.293e−14
0.05
0.04
0.03
0.02
0.01
0

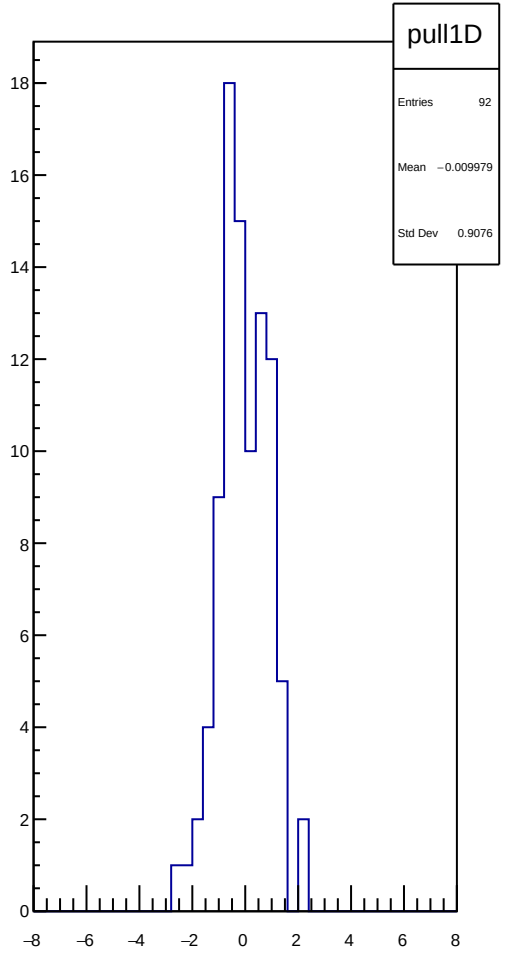

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 91
p0 −0.05269 ± 0.0438
pull
Entries 92
Mean 175.6
Std Dev 0
pull1D
Entries 92
Mean 0.01073
Std Dev 1.071

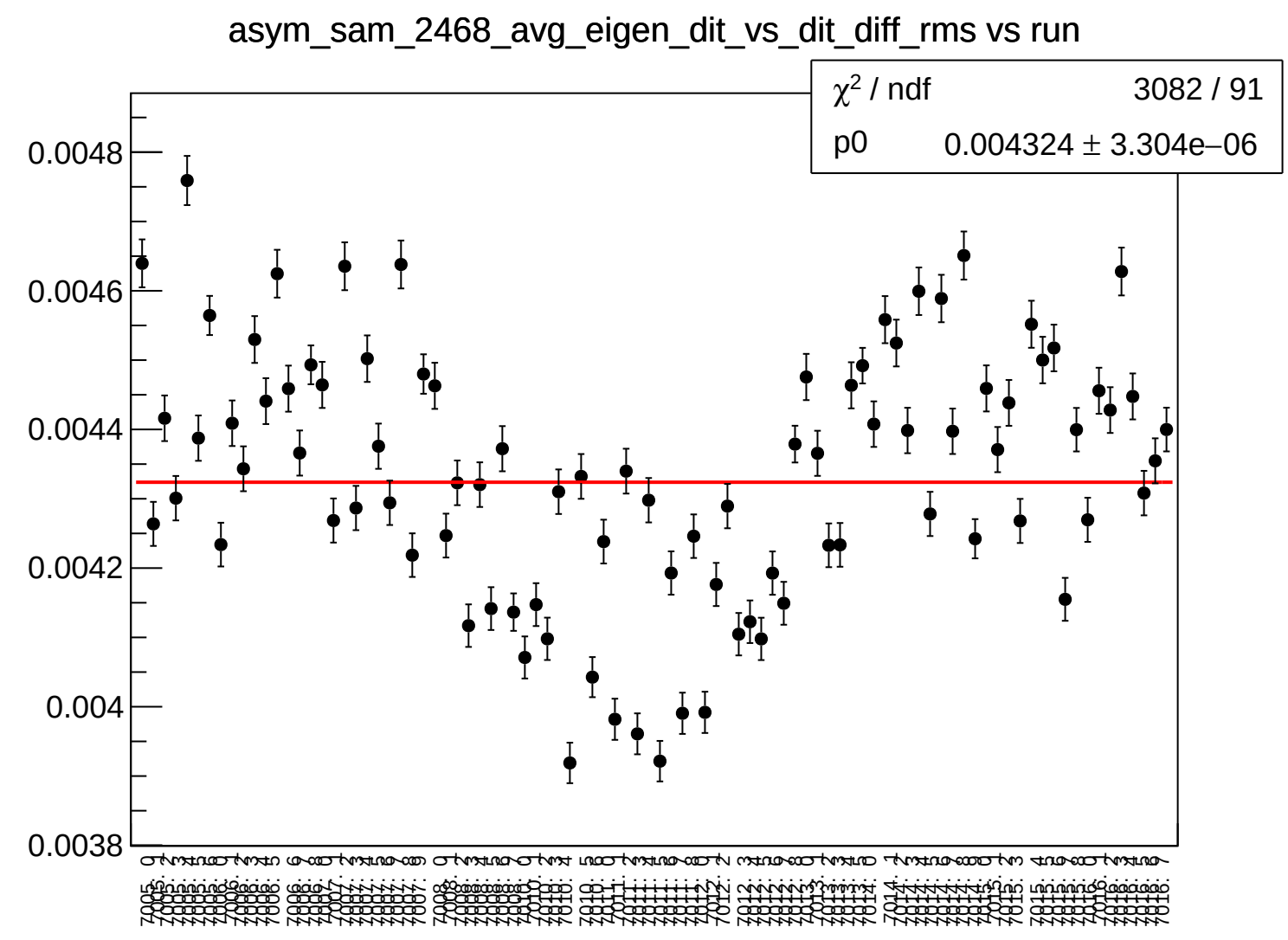

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.348e+04 / 91
p0 40.29 ± 0.03097
55
50
45
40
35

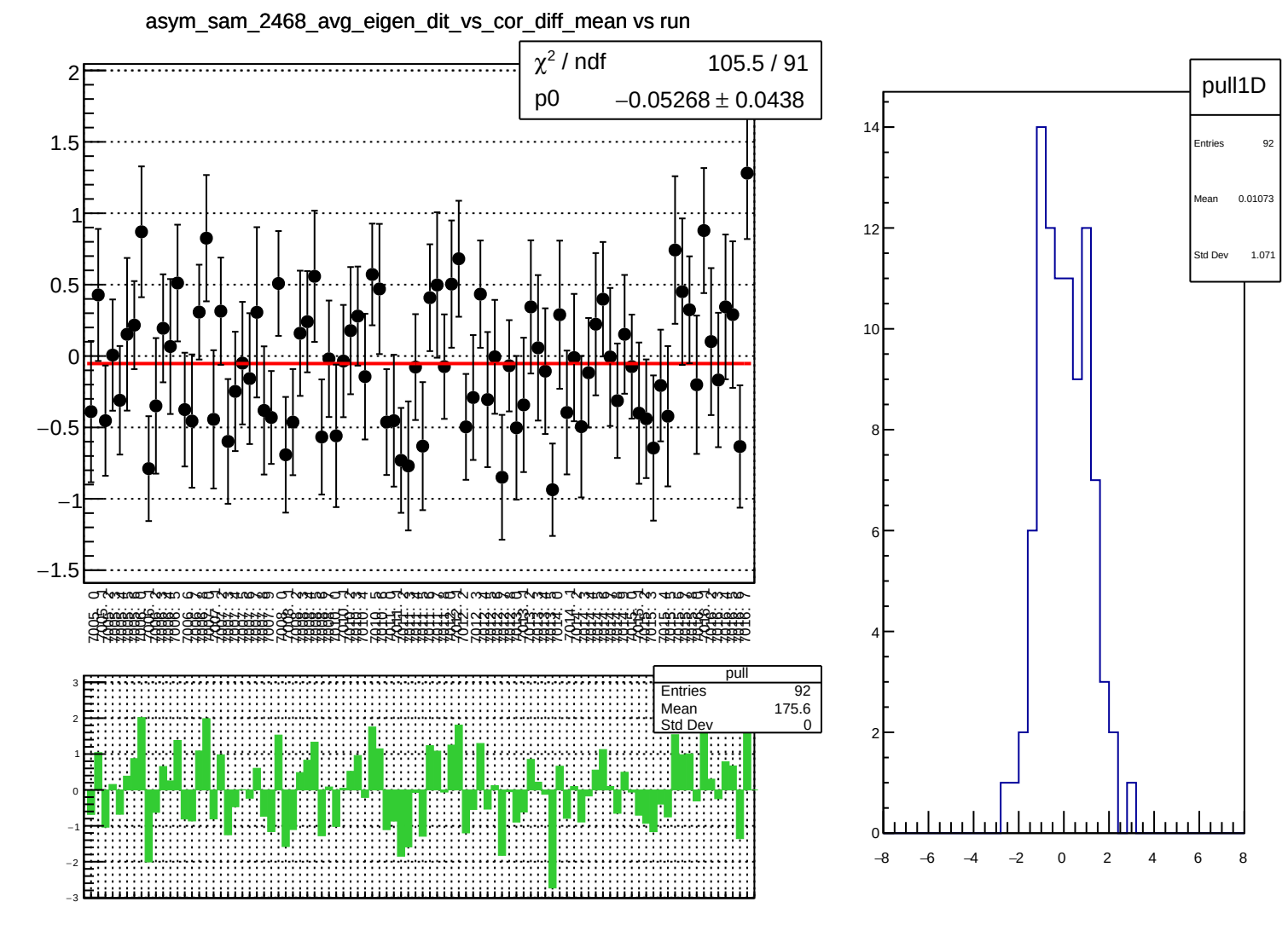

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 91
p0 −0.05269 ± 0.0438
pull
Entries 92
Mean 175.6
Std Dev 0
pull1D
Entries 92
Mean 0.01073
Std Dev 1.071

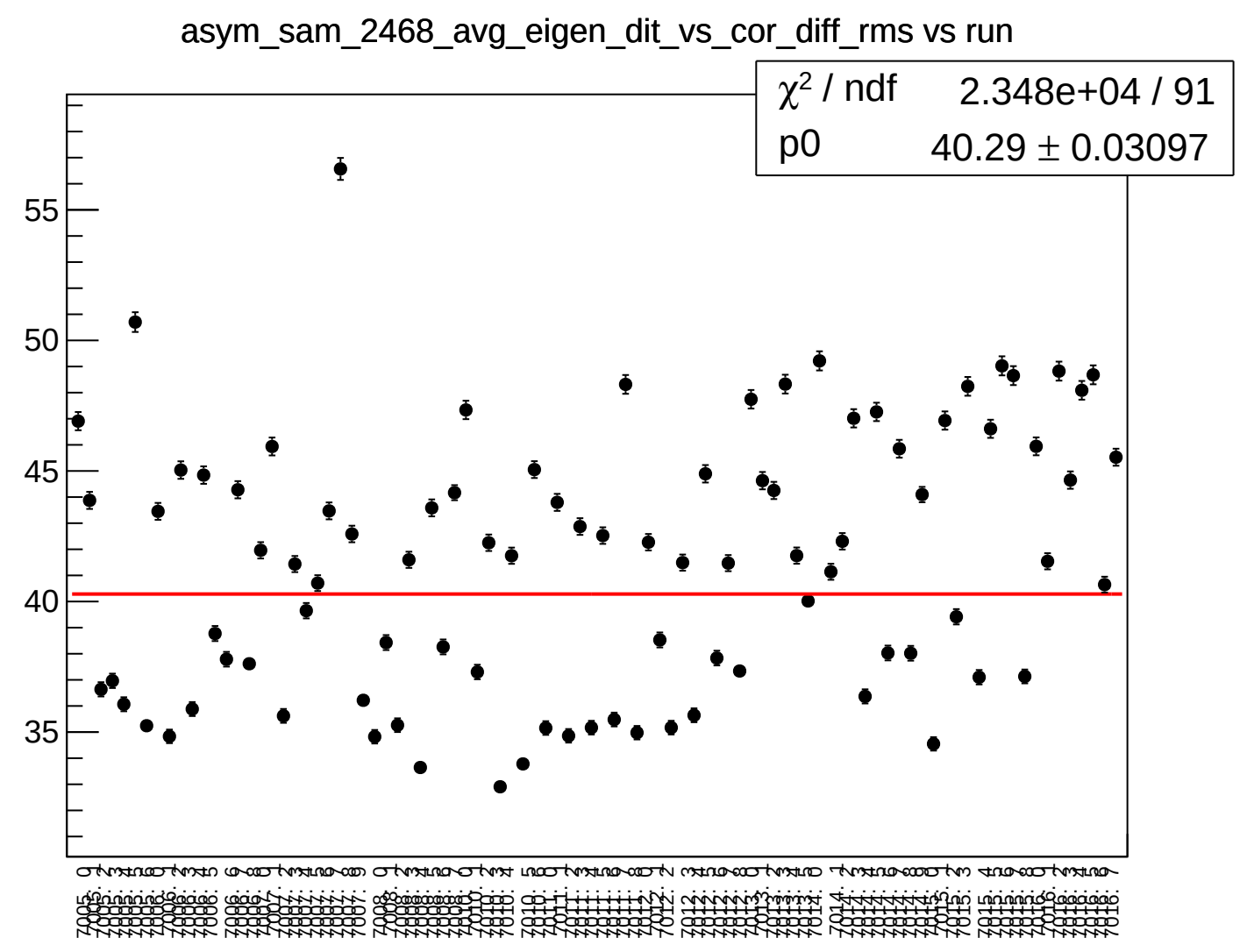

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.348e+04 / 91
p0 40.29 ± 0.03097
55
50
45
40
35

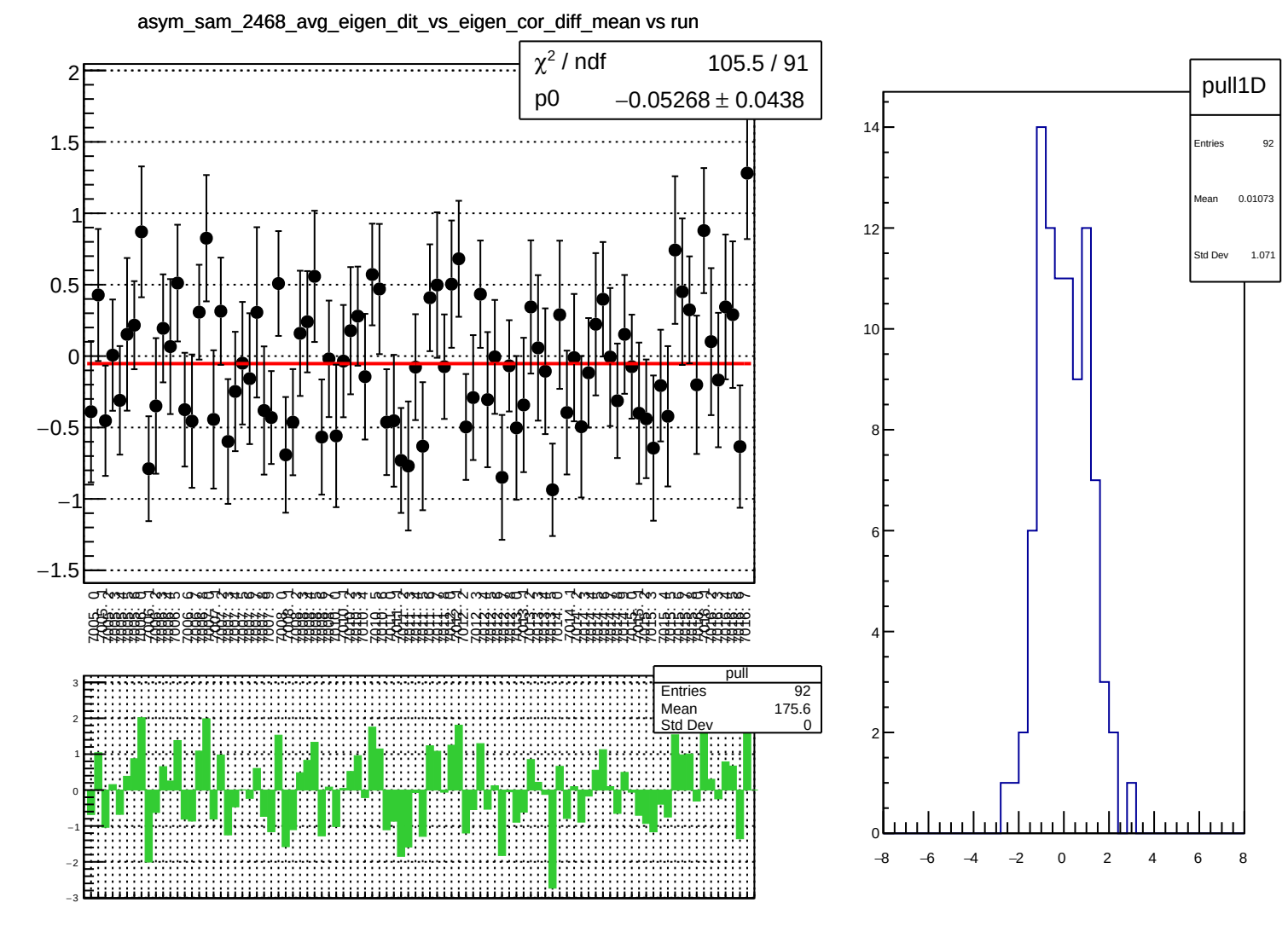

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.8 / 91
p0 1.39e−05 ± 4.673e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 92
Mean −44.4
Std Dev 0
2
1
0
−1
−2

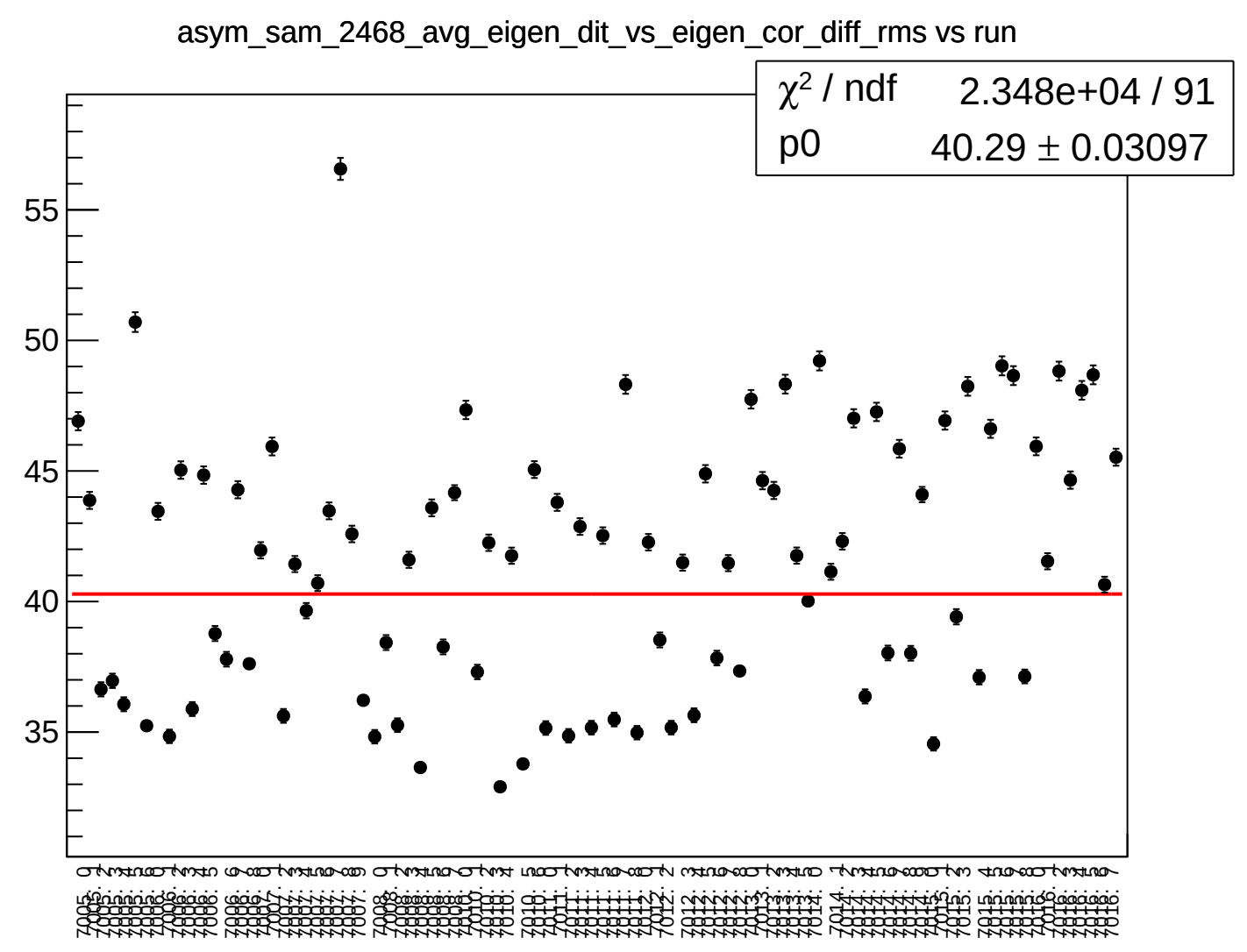

pull1D
Entries 92
Mean −0.009979
Std Dev 0.9076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

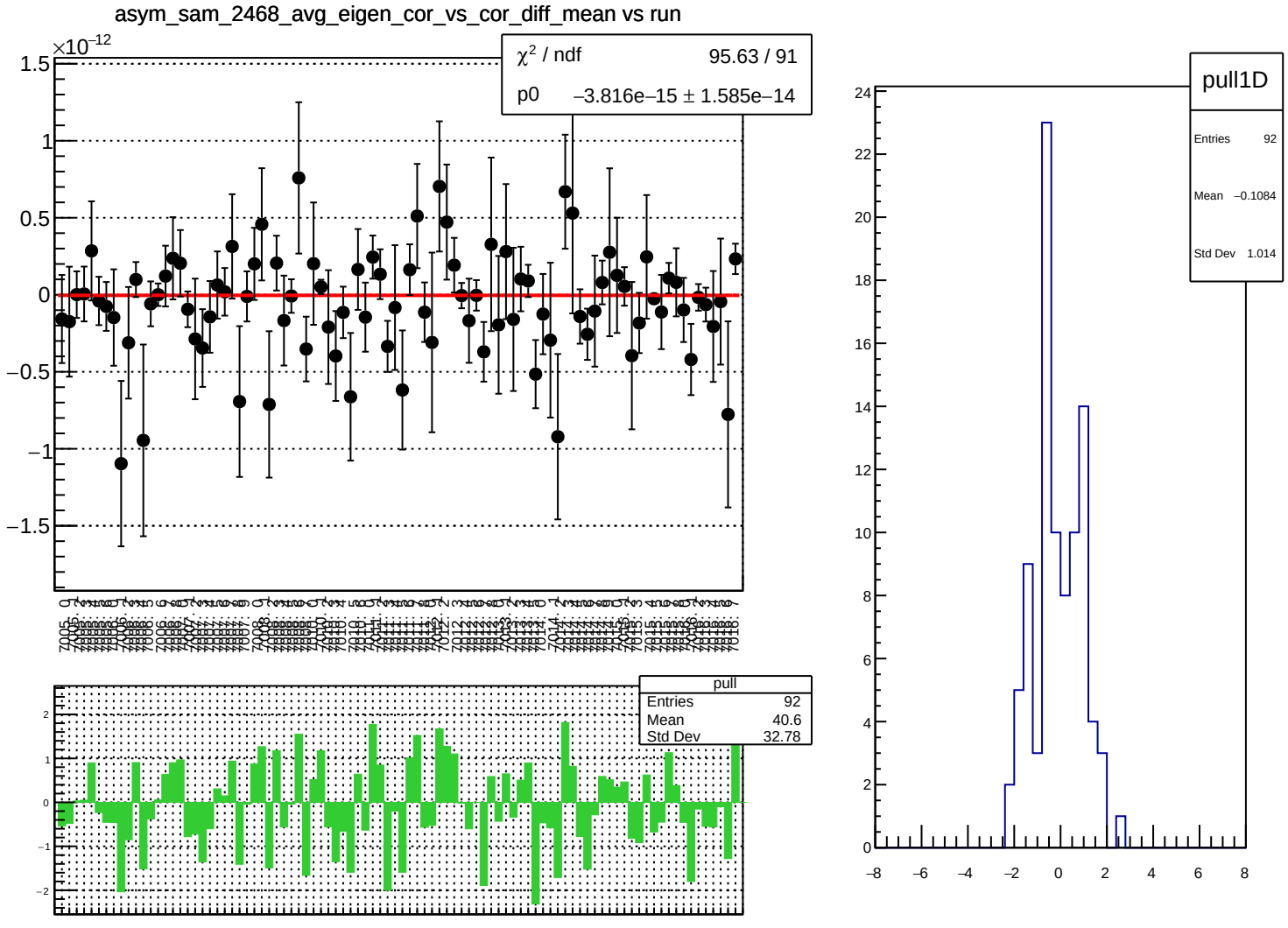

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3082 / 91
p0 0.004324 ± 3.304e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

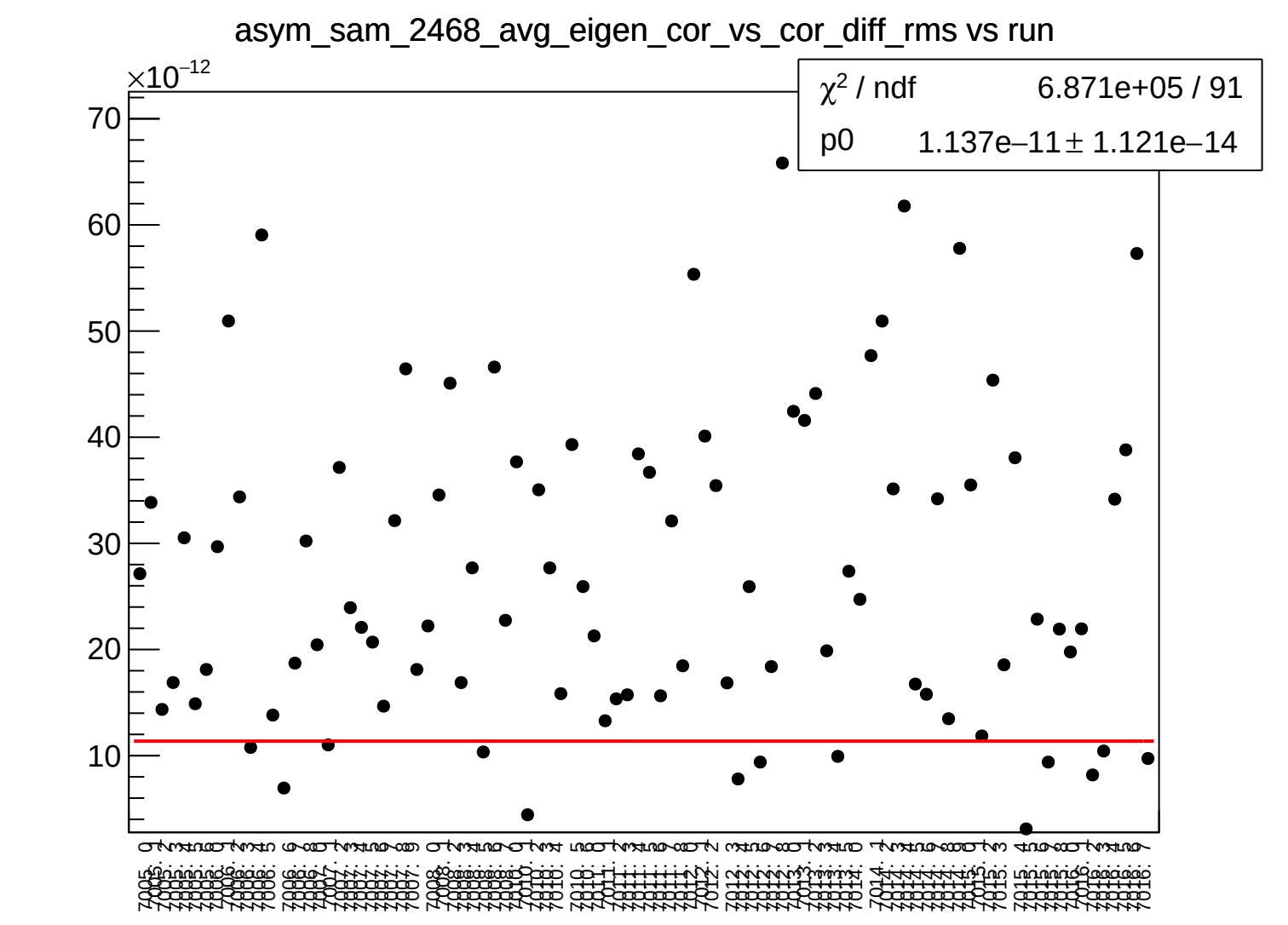

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 91
p0 −0.05268 ± 0.0438
pull
Entries 92
Mean 175.6
Std Dev 0
pull1D
Entries 92
Mean 0.01073
Std Dev 1.071

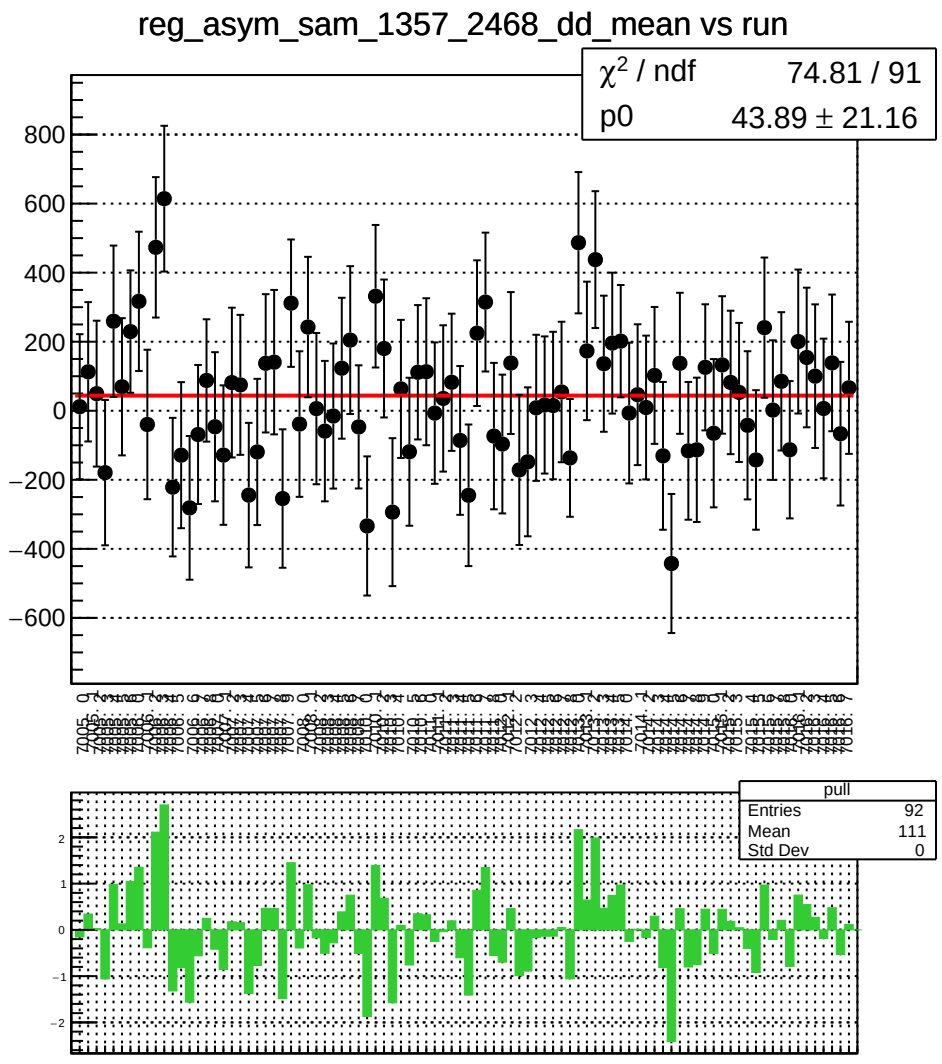

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.348e+04 / 91
p0 40.29 ± 0.03097
55
50
45
40
35

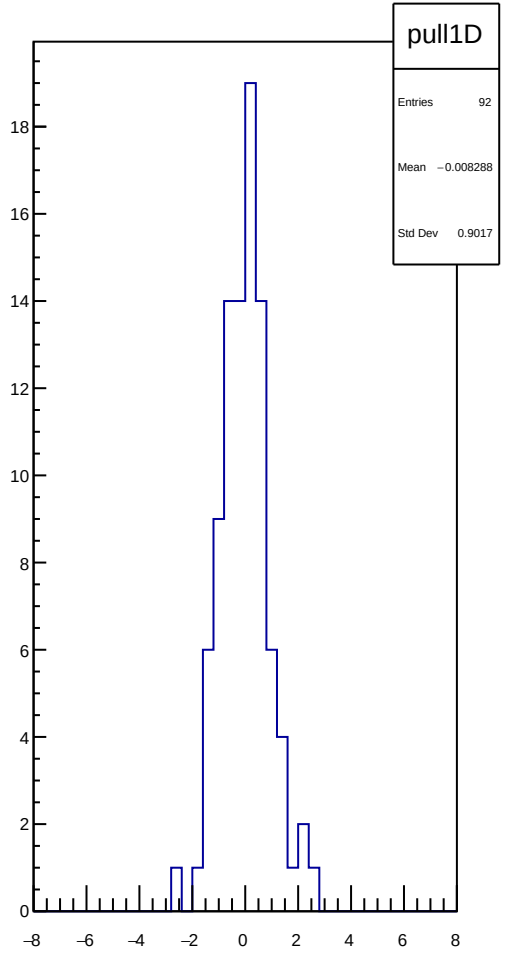

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 91
p0 −0.05268 ± 0.0438
pull
Entries 92
Mean 175.6
Std Dev 0
pull1D
Entries 92
Mean 0.01073
Std Dev 1.071

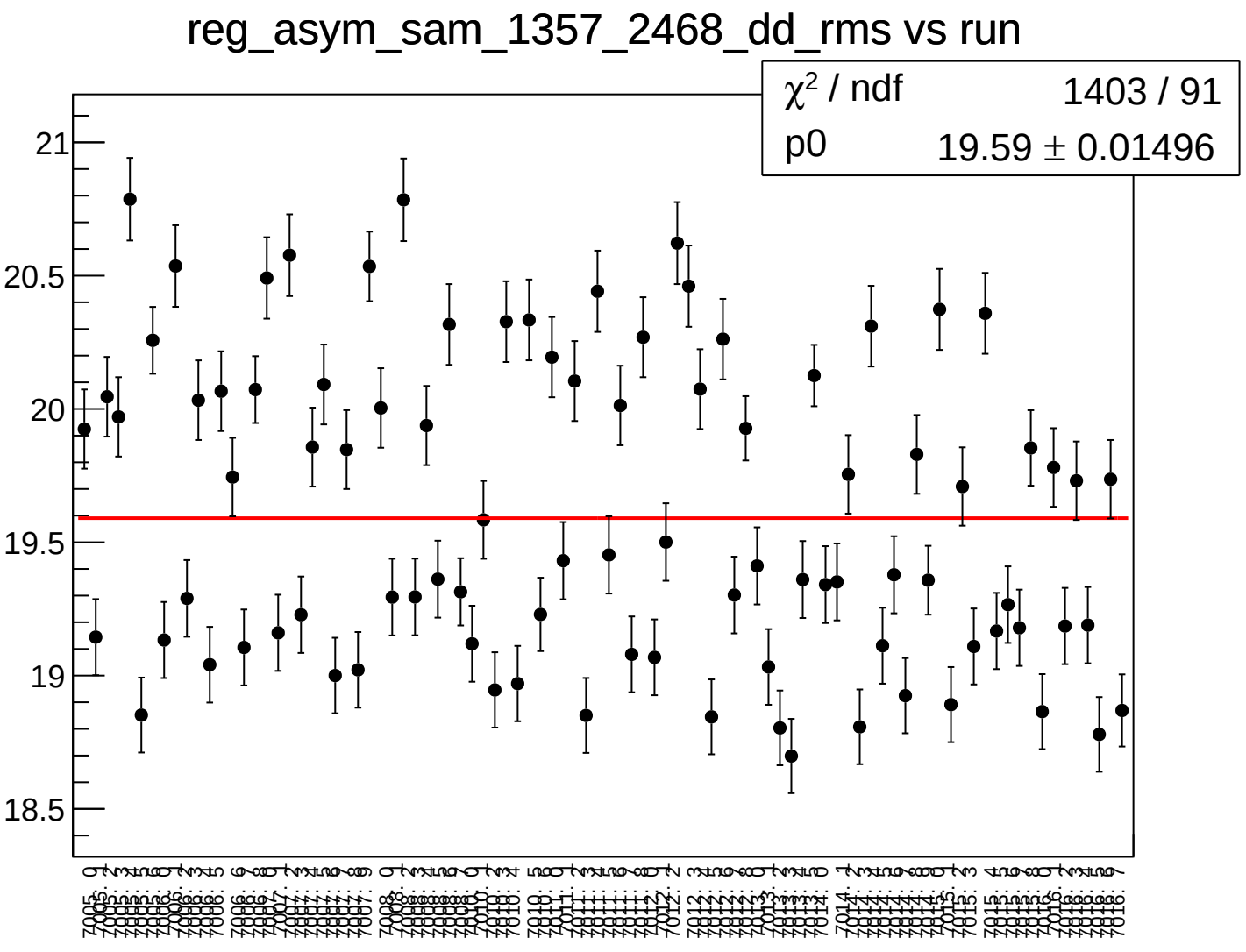

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.348e+04 / 91
p0 40.29 ± 0.03097
55
50
45
40
35

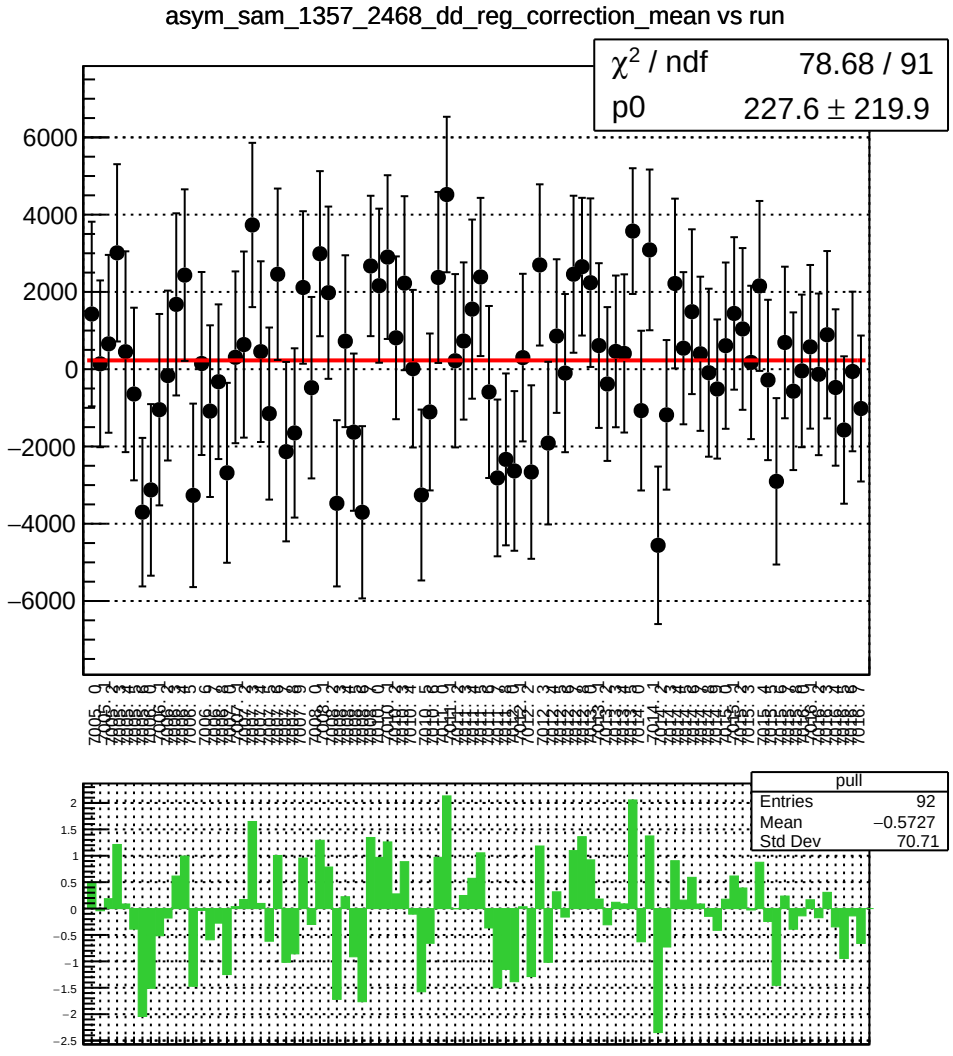

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.63 / 91
p0 −3.816e−15 ± 1.585e−14
pull
Entries 92
Mean 40.6
Std Dev 32.78
pull1D
Entries 92
Mean −0.1084
Std Dev 1.014

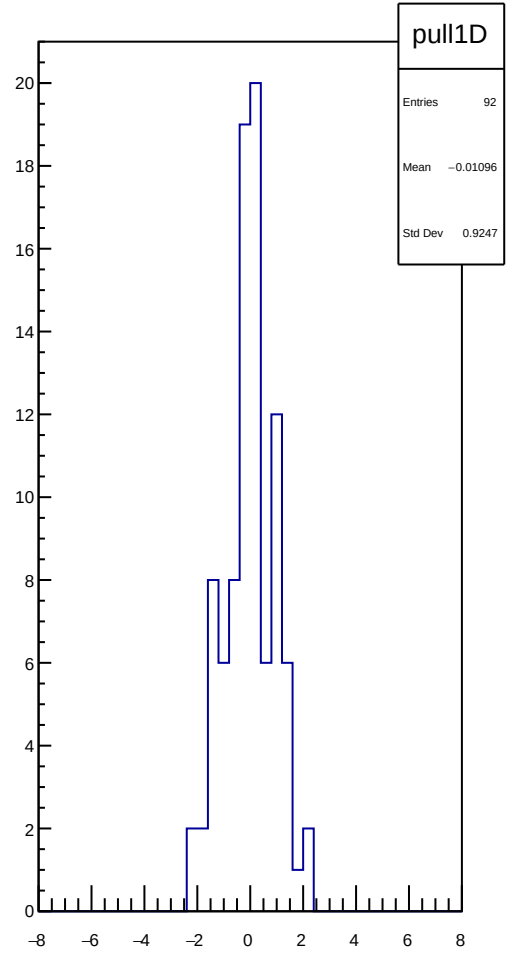

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 6.871e+05 / 91
p0 1.137e−11 ± 1.121e−14

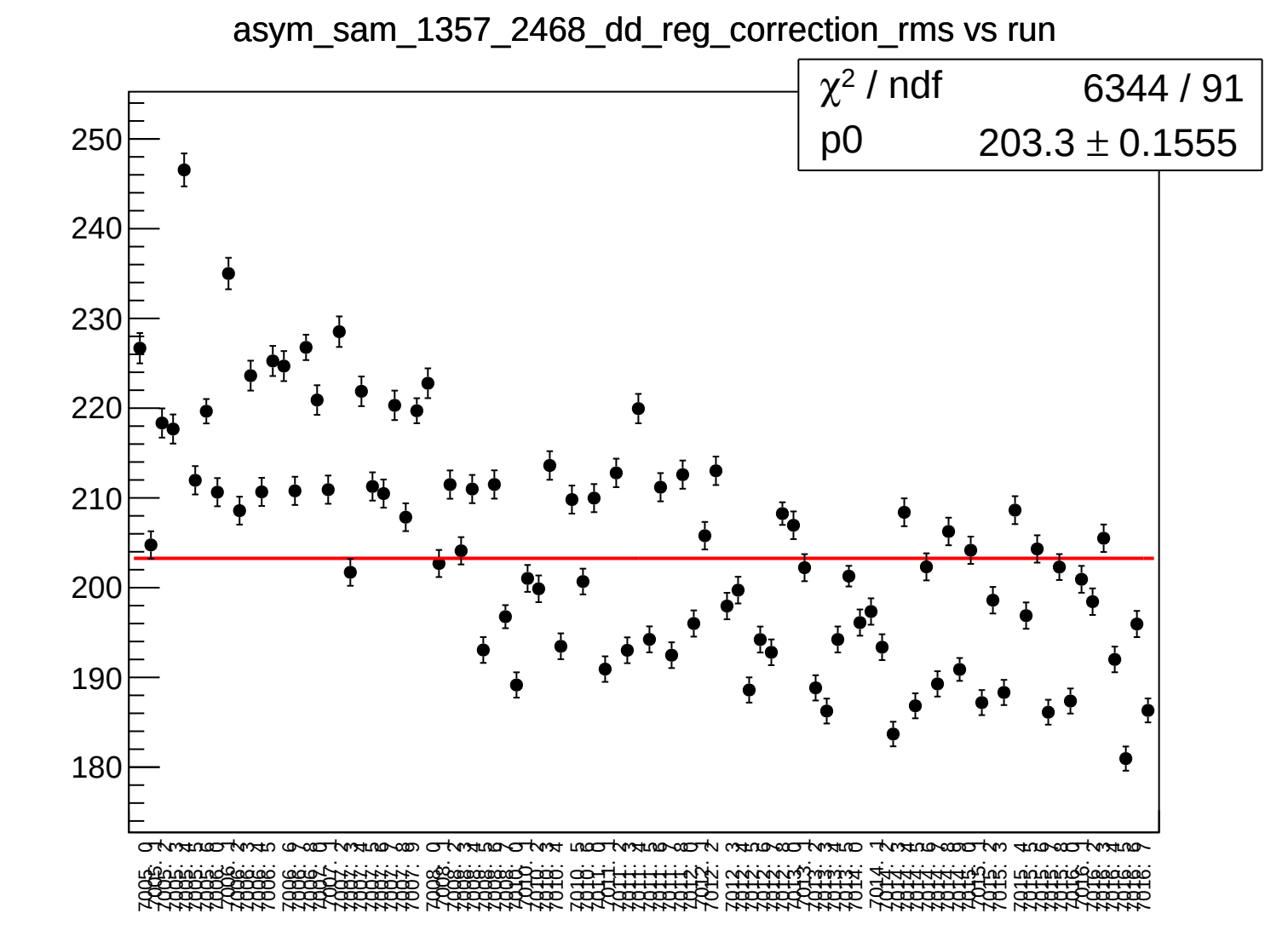

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 74.81 / 91
p0 43.89 ± 21.16
800
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean 111
Std Dev 0
2
1
0
−1
−2

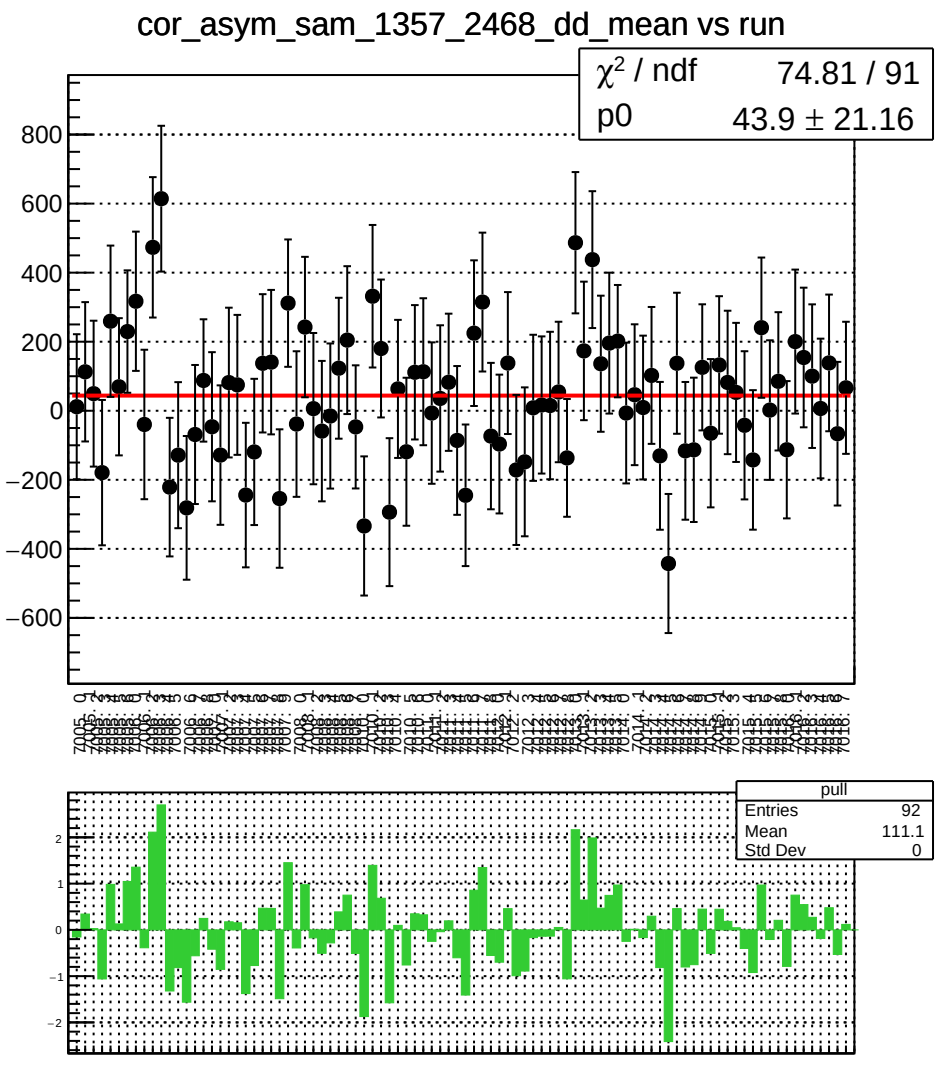

pull1D
Entries 92
Mean −0.008288
Std Dev 0.9017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

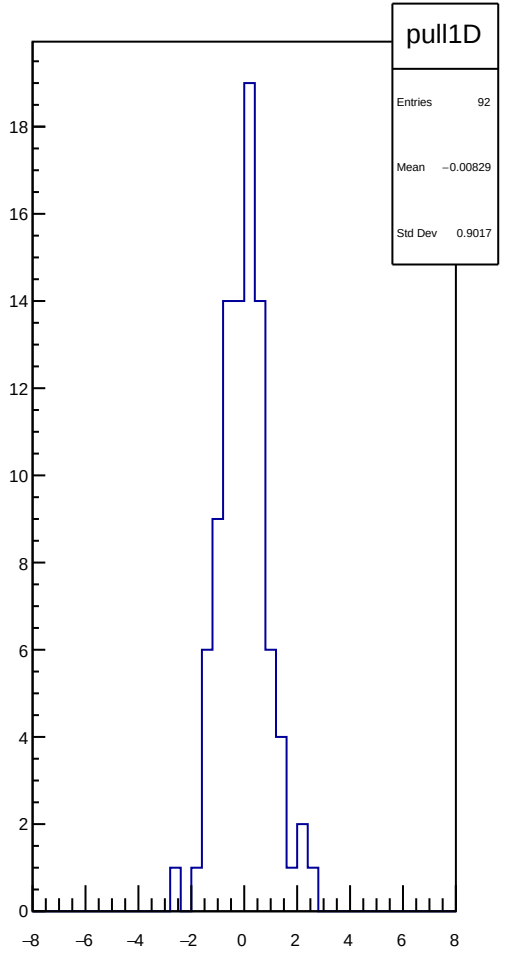

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1403 / 91
p0 19.59 ± 0.01496
21
20.5
20
19.5
19
18.5

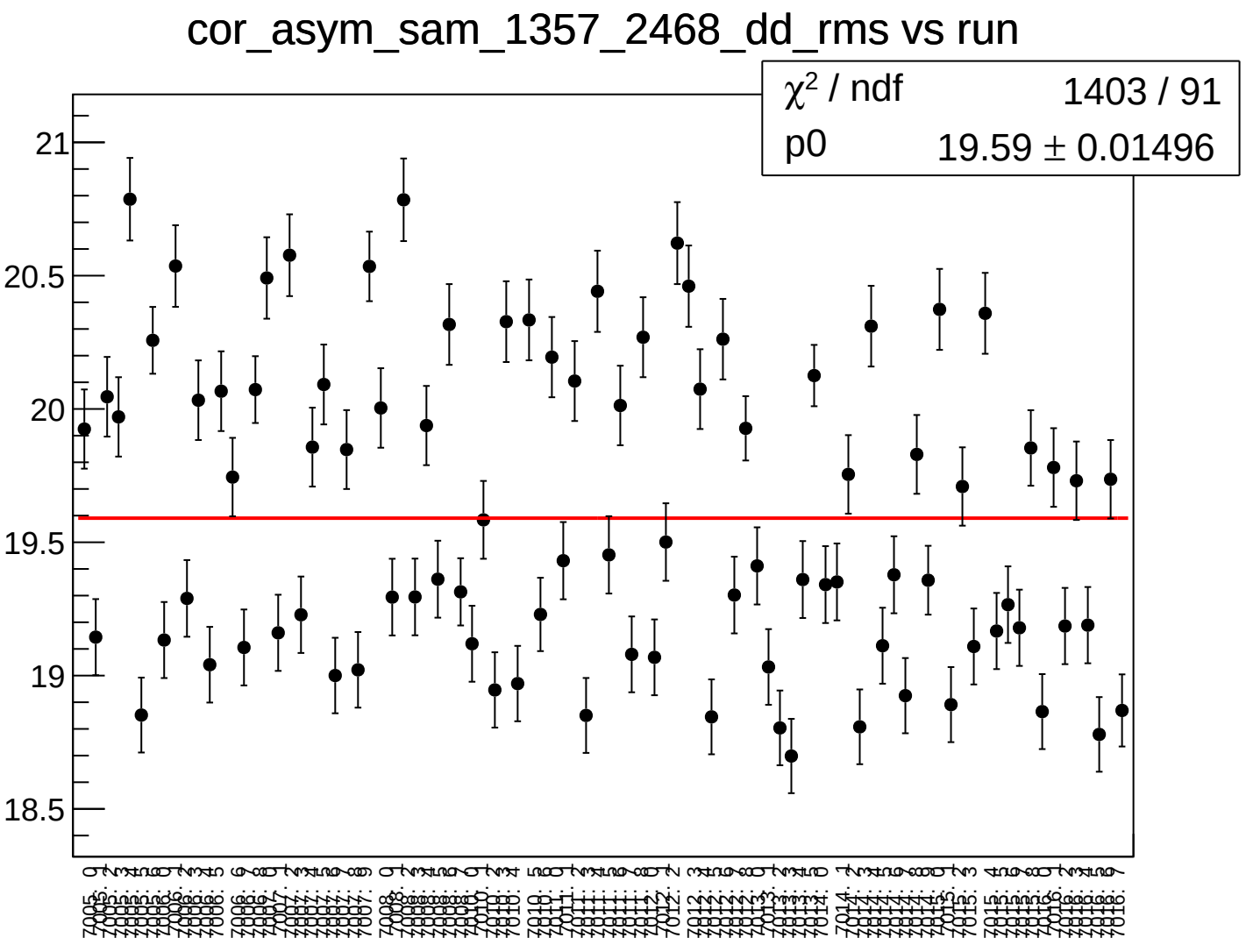

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 78.68 / 91
p0 227.6 ± 219.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −0.5727
Std Dev 70.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

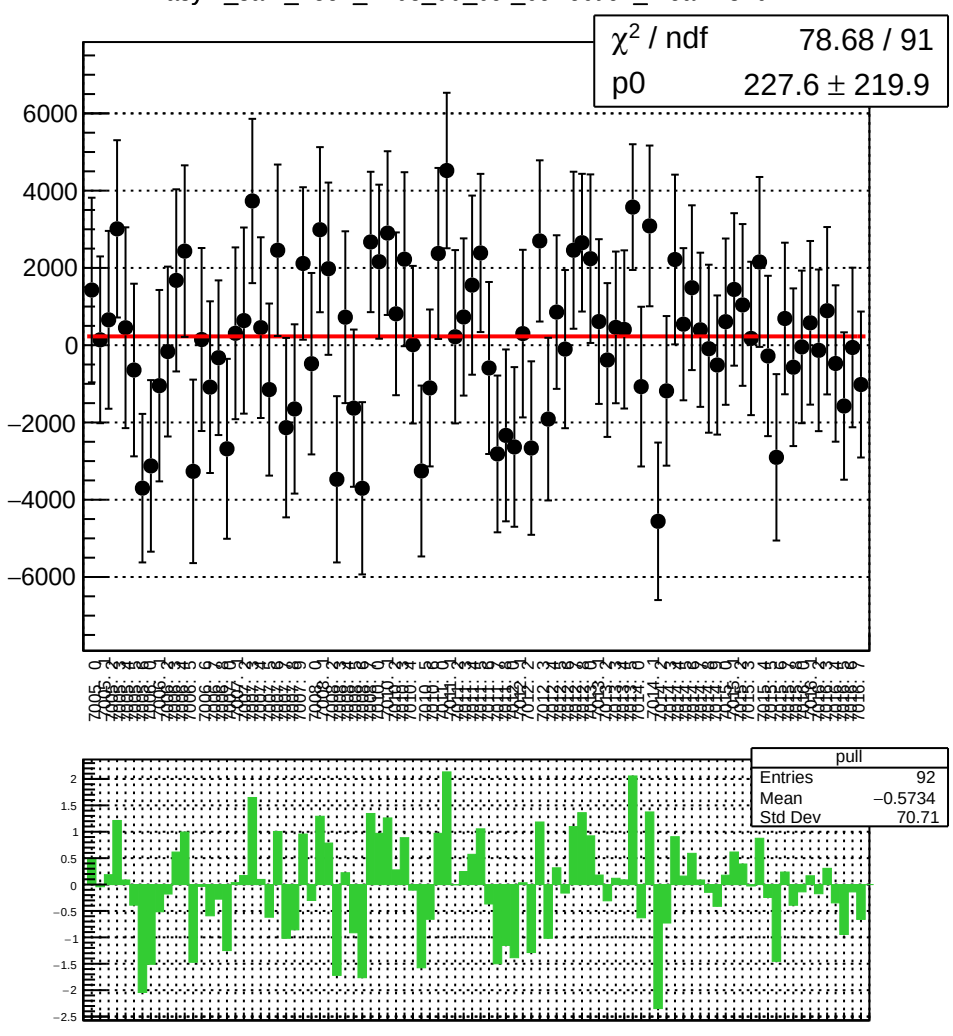

pull1D
Entries 92
Mean −0.01096
Std Dev 0.9247
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

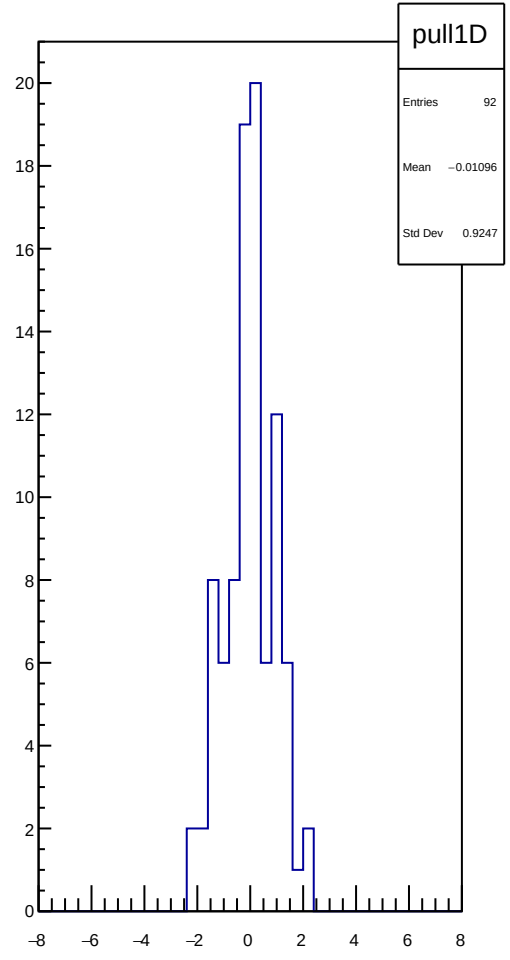

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 6344 / 91
p0 203.3 ± 0.1555
250
240
230
220
210
200
190
180

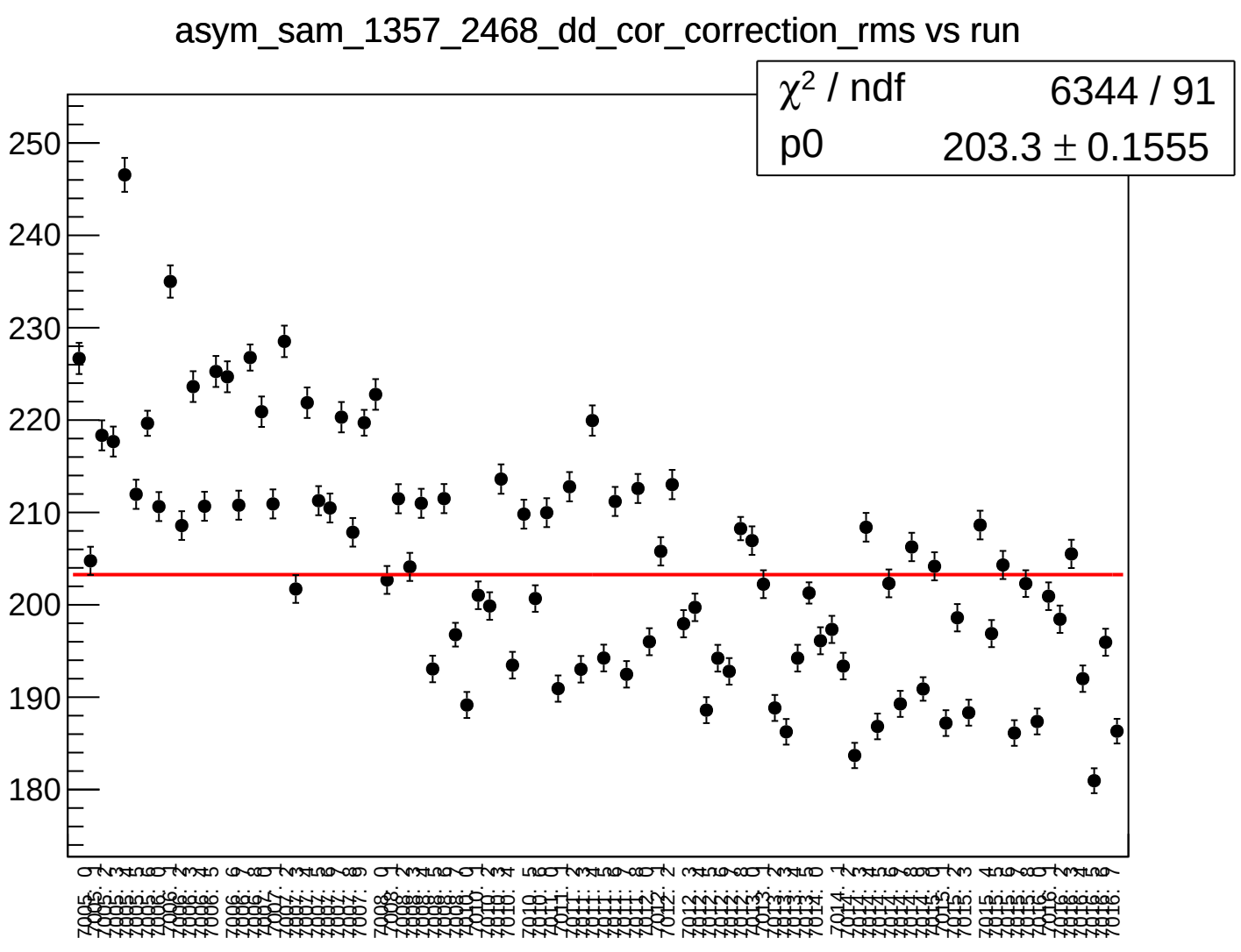

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 74.81 / 91
p0 43.9 ± 21.16
800
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean 111.1
Std Dev 0
2
1
0
−1
−2

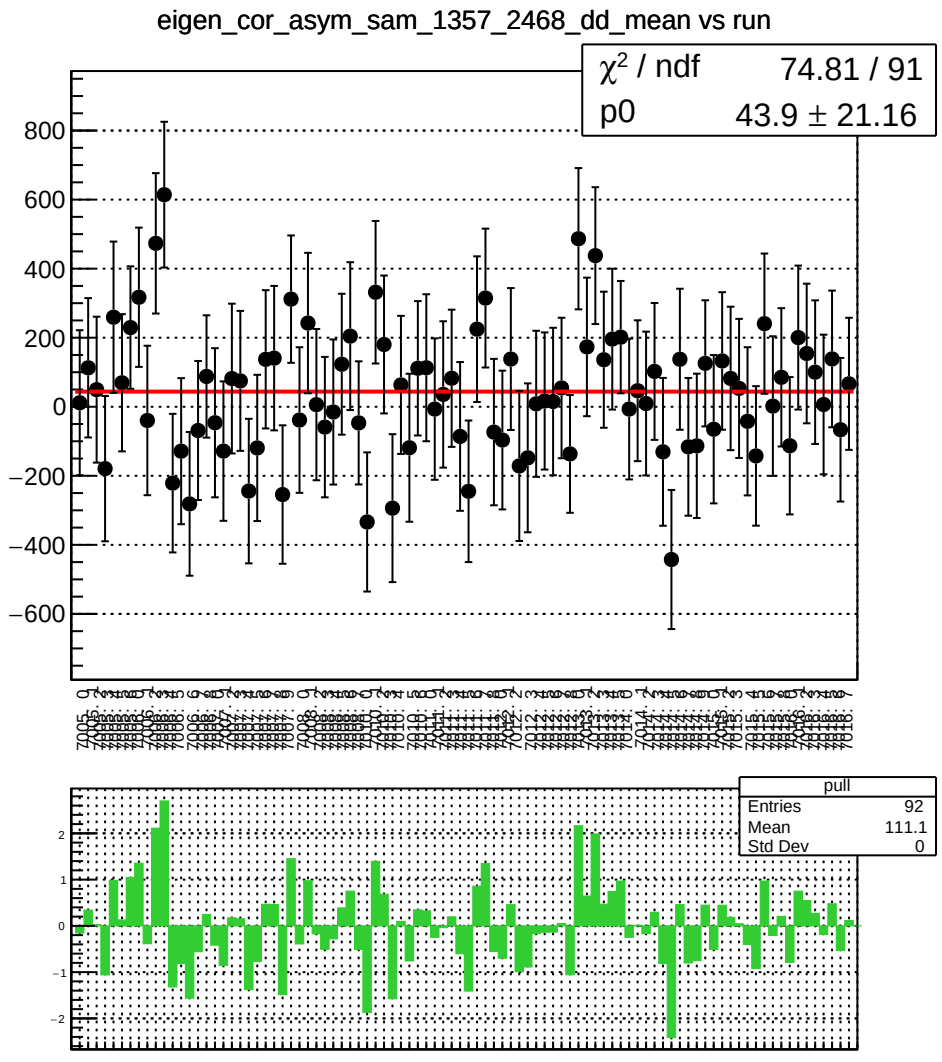

pull1D
Entries 92
Mean −0.00829
Std Dev 0.9017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

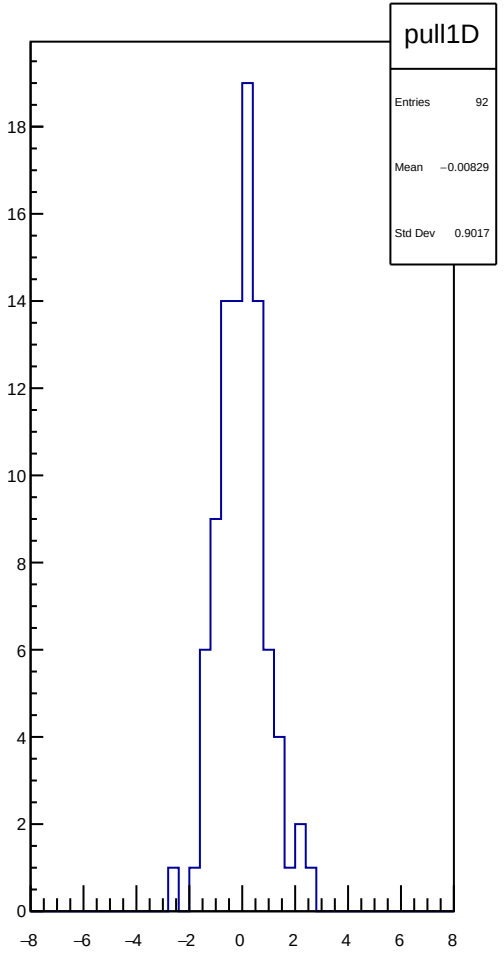

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1403 / 91
p0 19.59 ± 0.01496
21
20.5
20
19.5
19
18.5

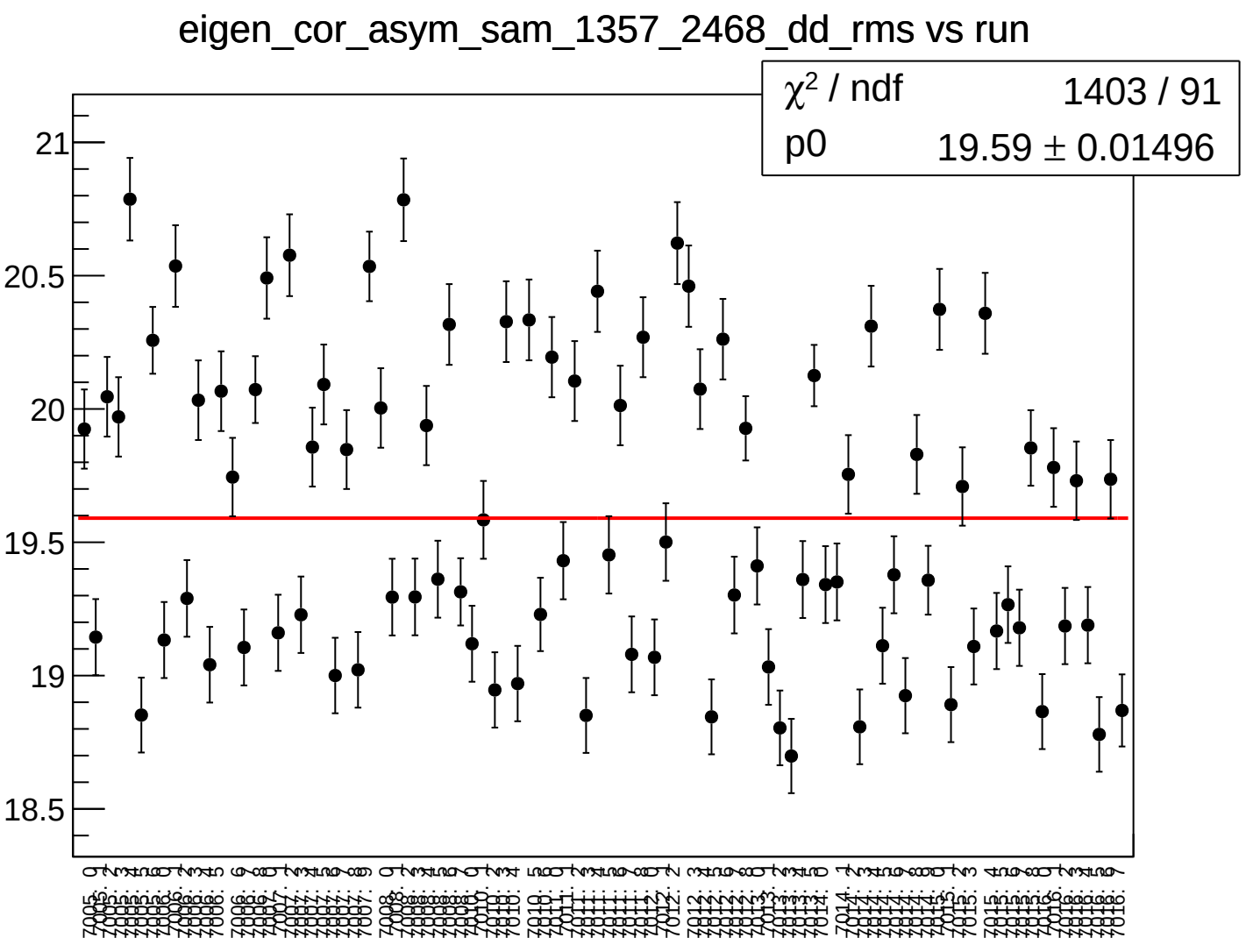

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 78.68 / 91
p0 227.6 ± 219.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −0.5734
Std Dev 70.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

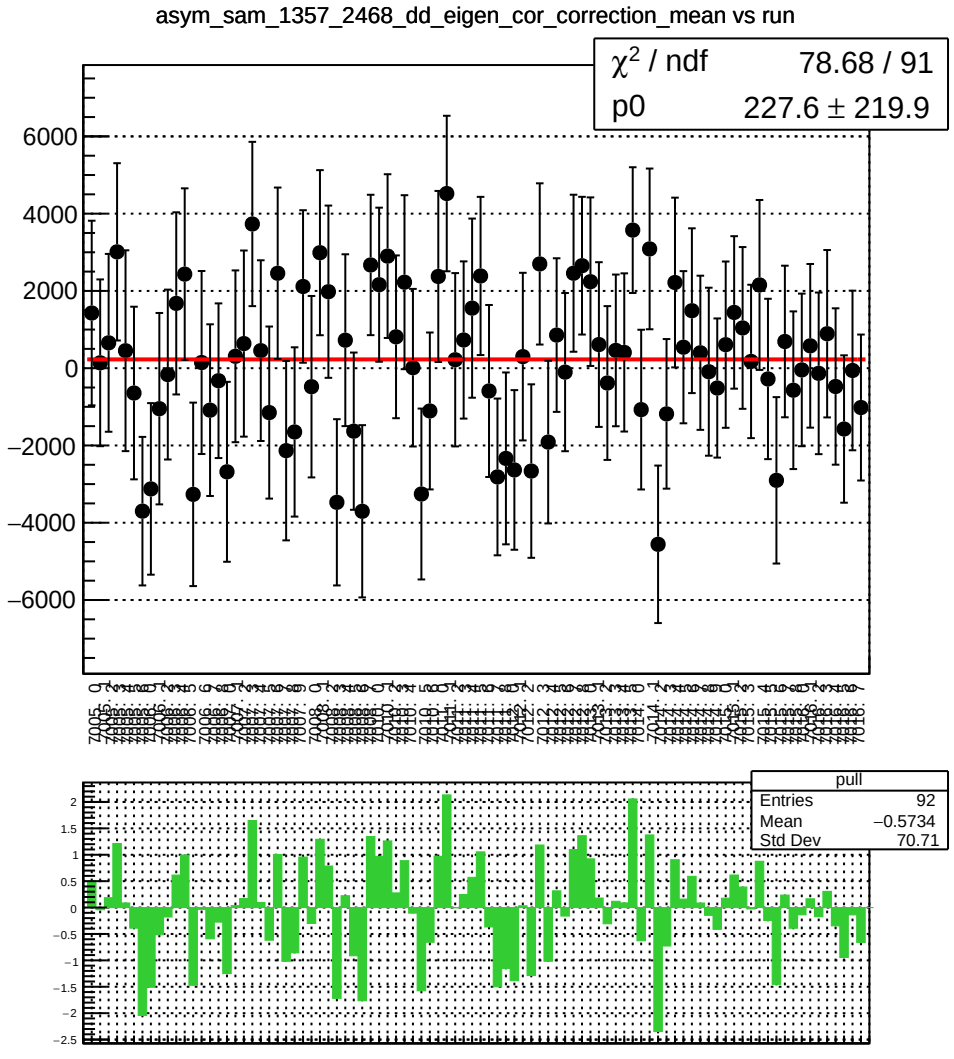

pull1D
Entries 92
Mean −0.01096
Std Dev 0.9247
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

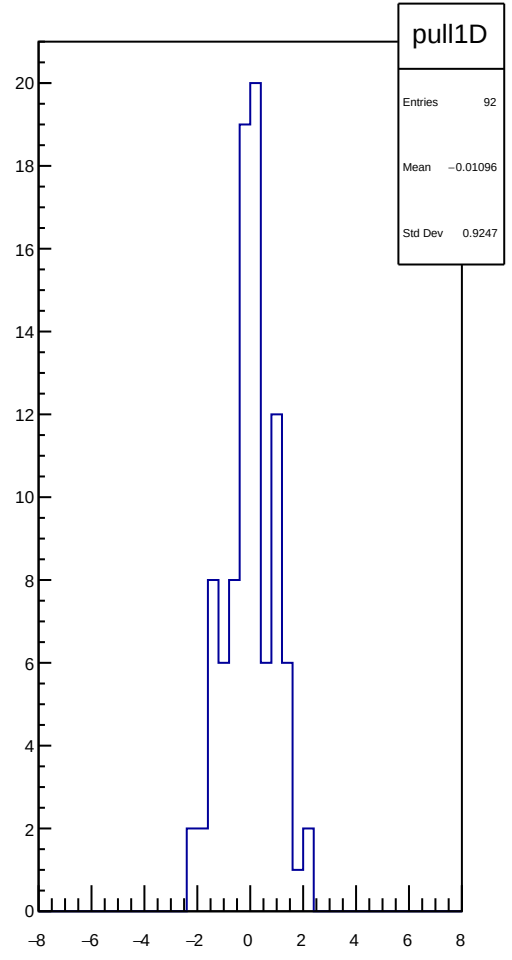

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 6344 / 91
p0 203.3 ± 0.1555
250
240
230
220
210
200
190
180

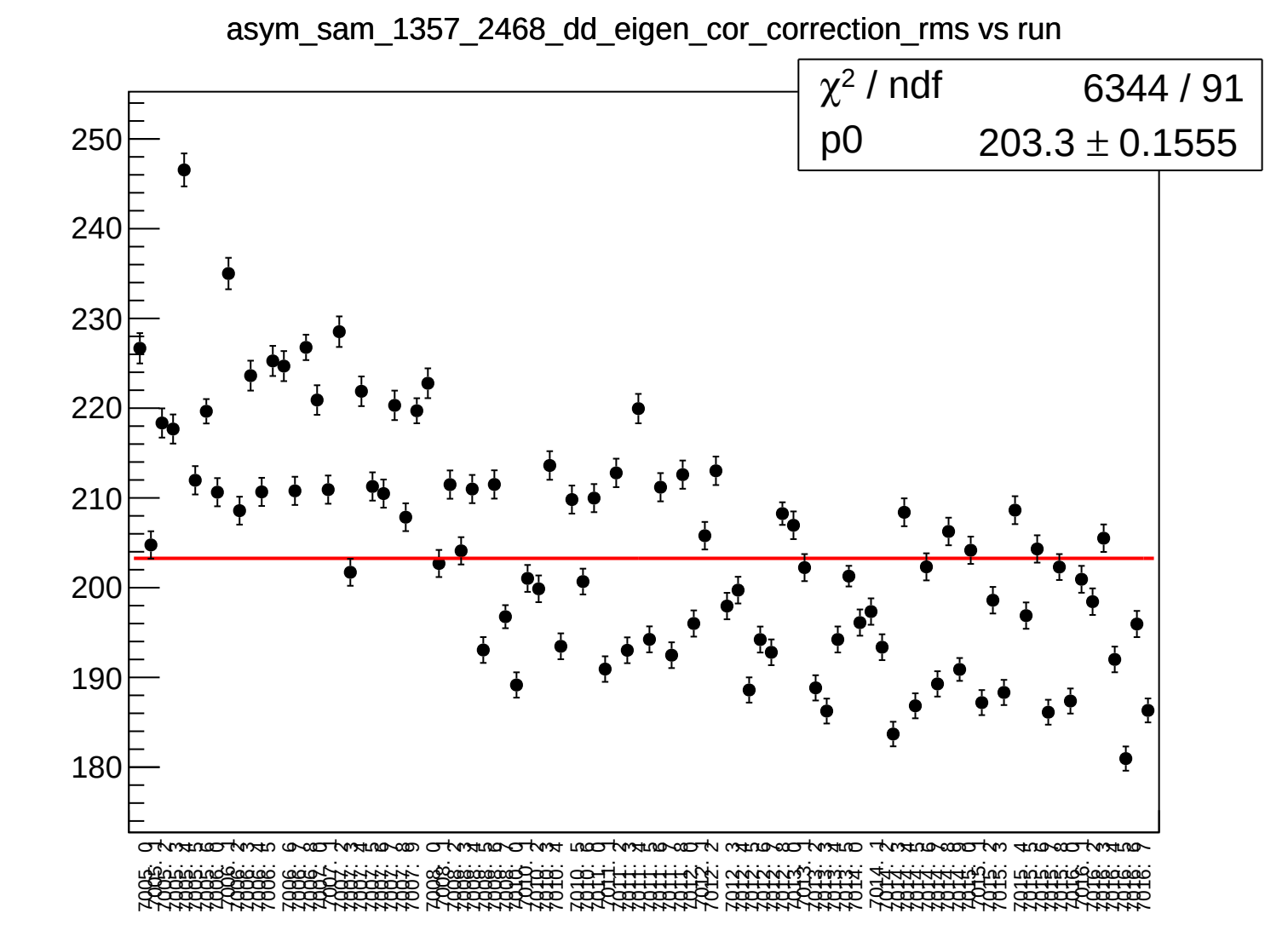

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 74.81 / 91
p0 43.9 ± 21.16
800
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean 111.1
Std Dev 0
2
1
0
−1
−2

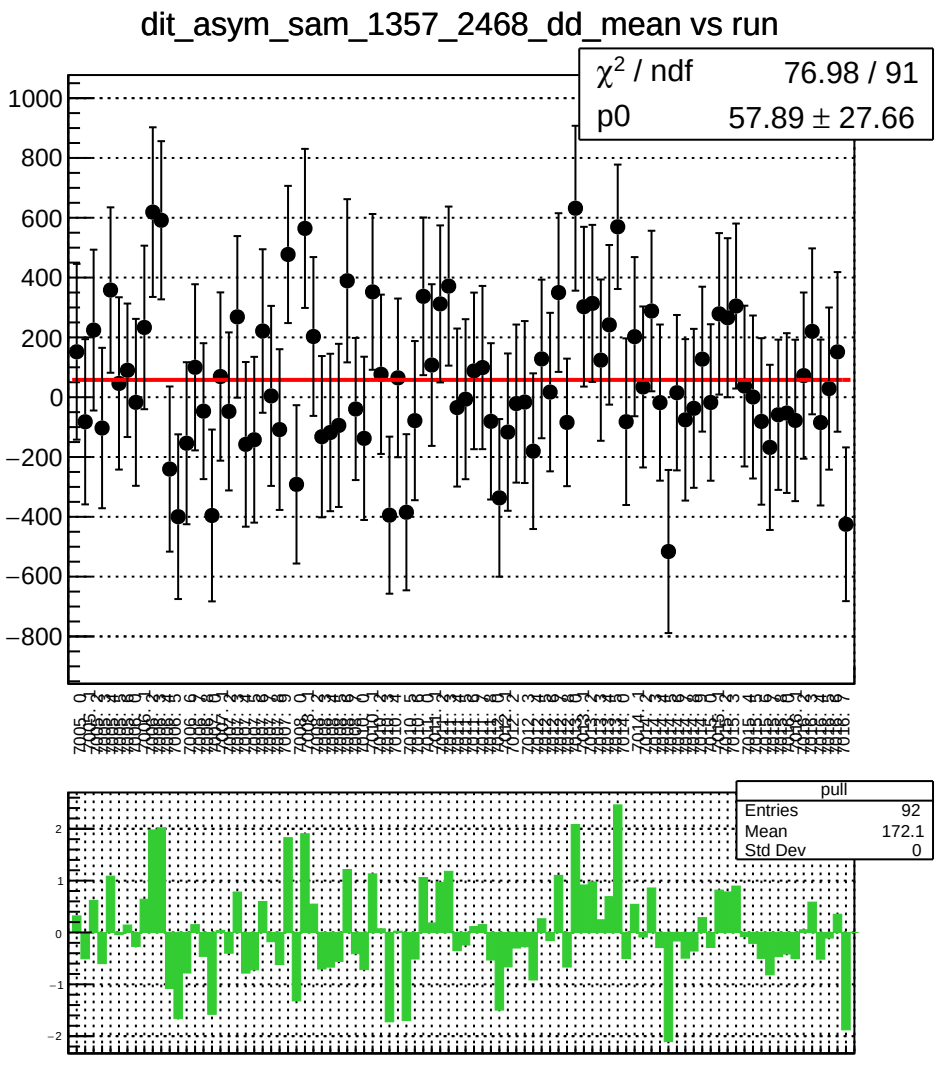

pull1D
Entries 92
Mean −0.00829
Std Dev 0.9017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

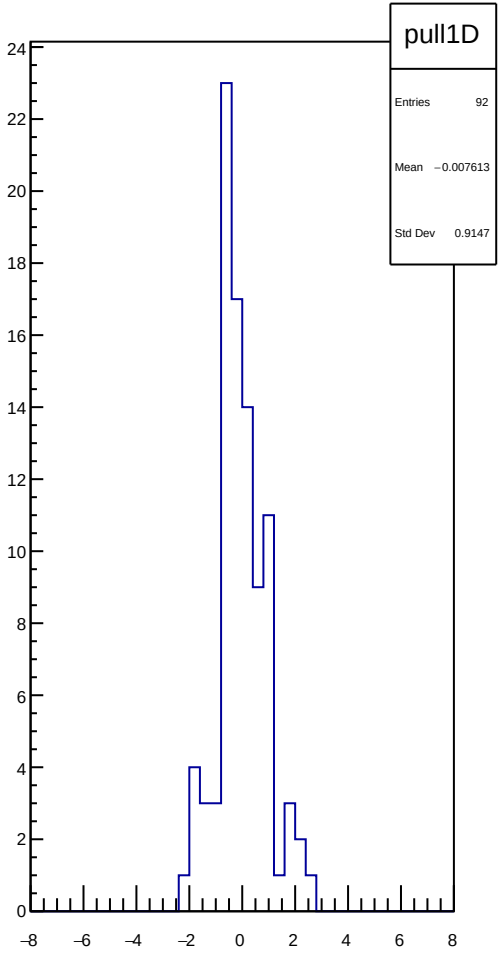

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1403 / 91
p0 19.59 ± 0.01496
21
20.5
20
19.5
19
18.5

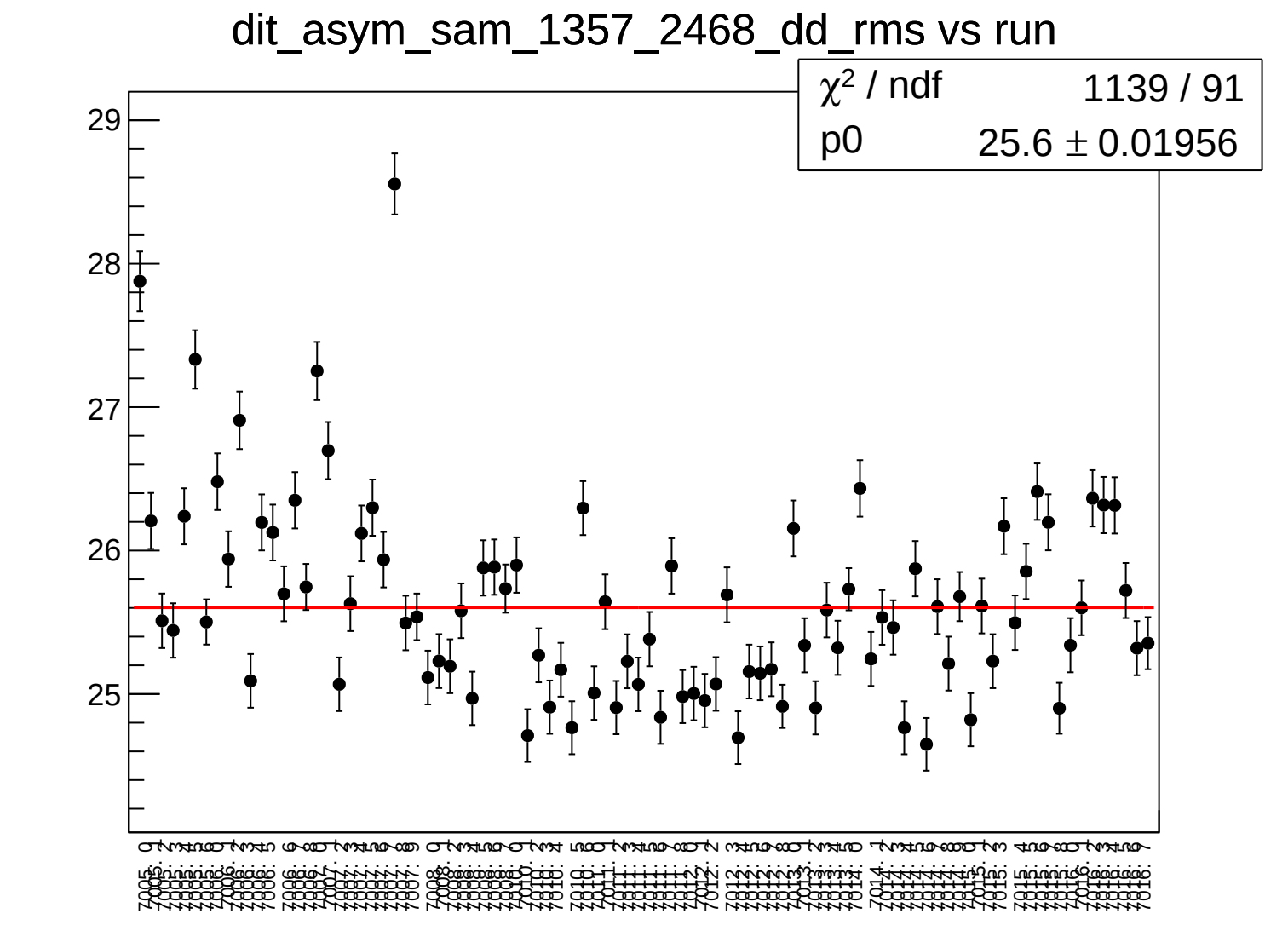

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.68 / 91
p0 227.6 ± 219.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −0.5734
Std Dev 70.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

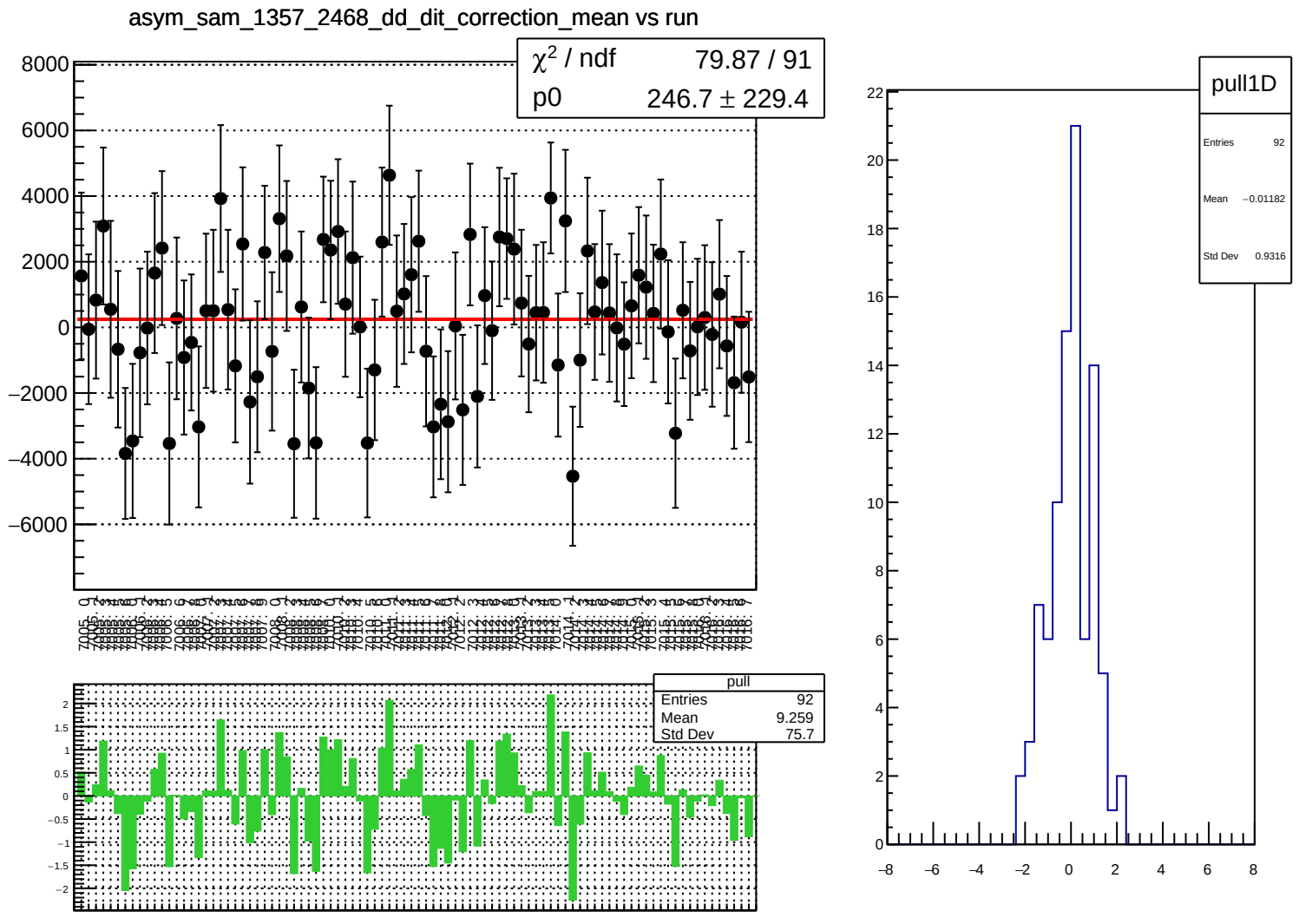

pull1D
Entries 92
Mean −0.01096
Std Dev 0.9247
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

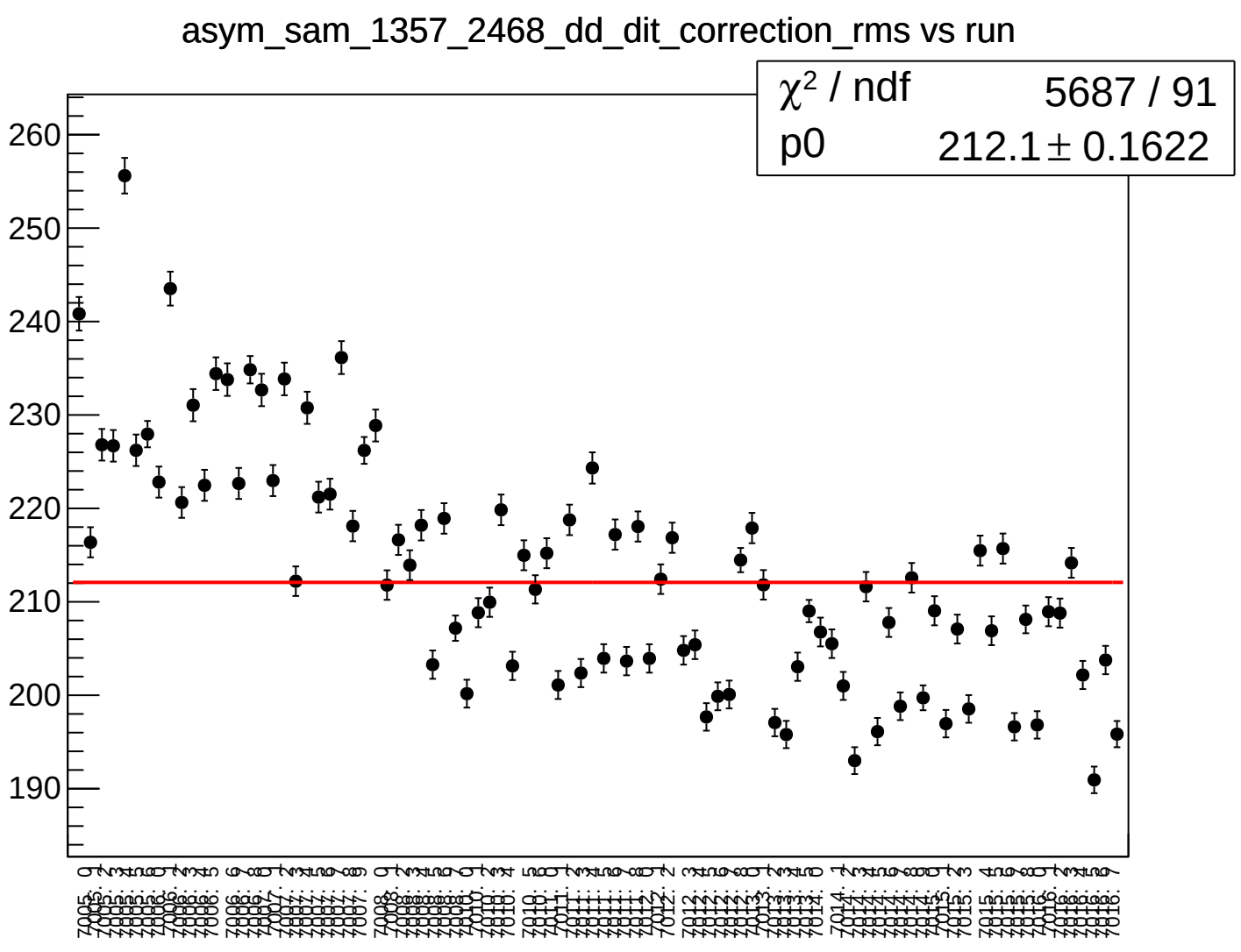

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 6344 / 91
p0 203.3 ± 0.1555
250
240
230
220
210
200
190
180

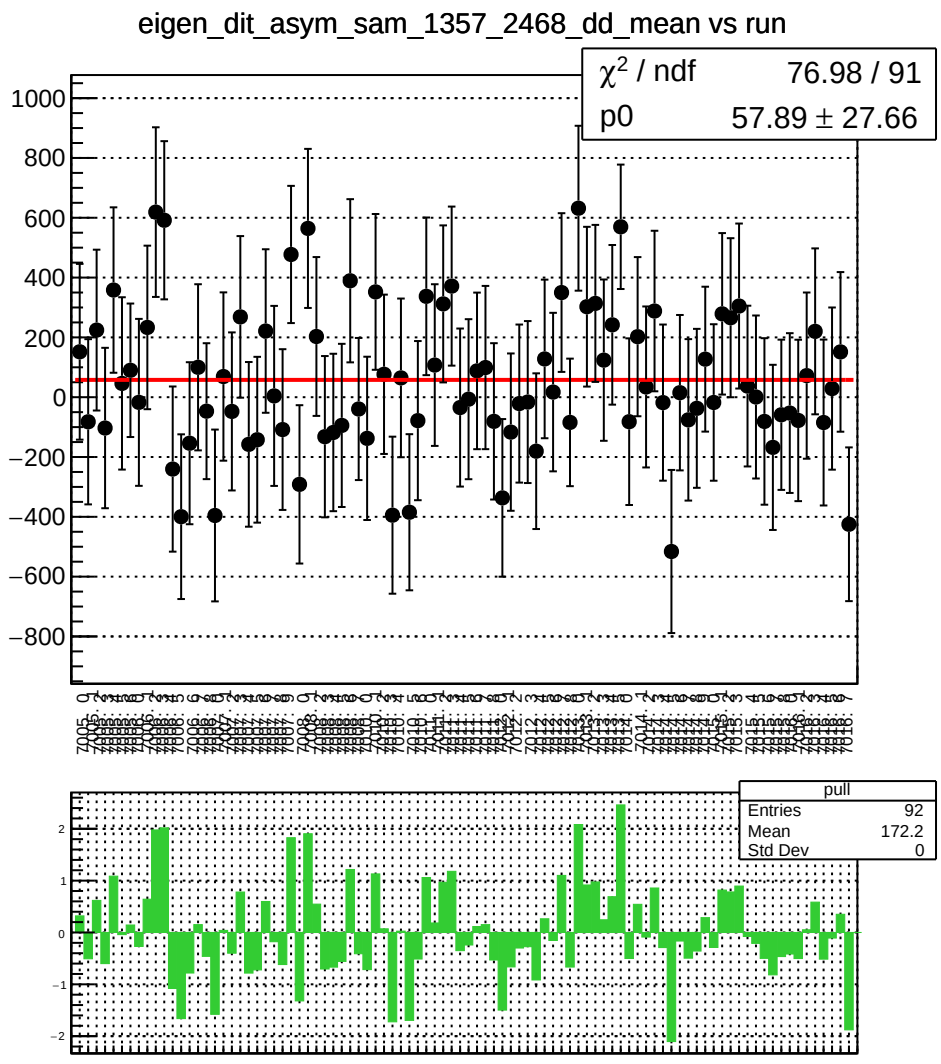

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 76.98 / 91
p0 57.89 ± 27.66
pull
Entries 92
Mean 172.1
Std Dev 0

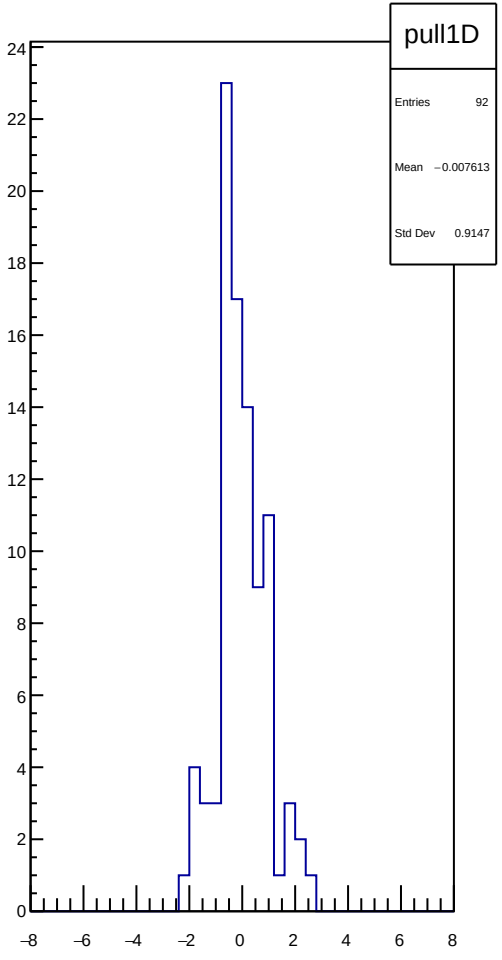

pull1D
Entries 92
Mean −0.007613
Std Dev 0.9147

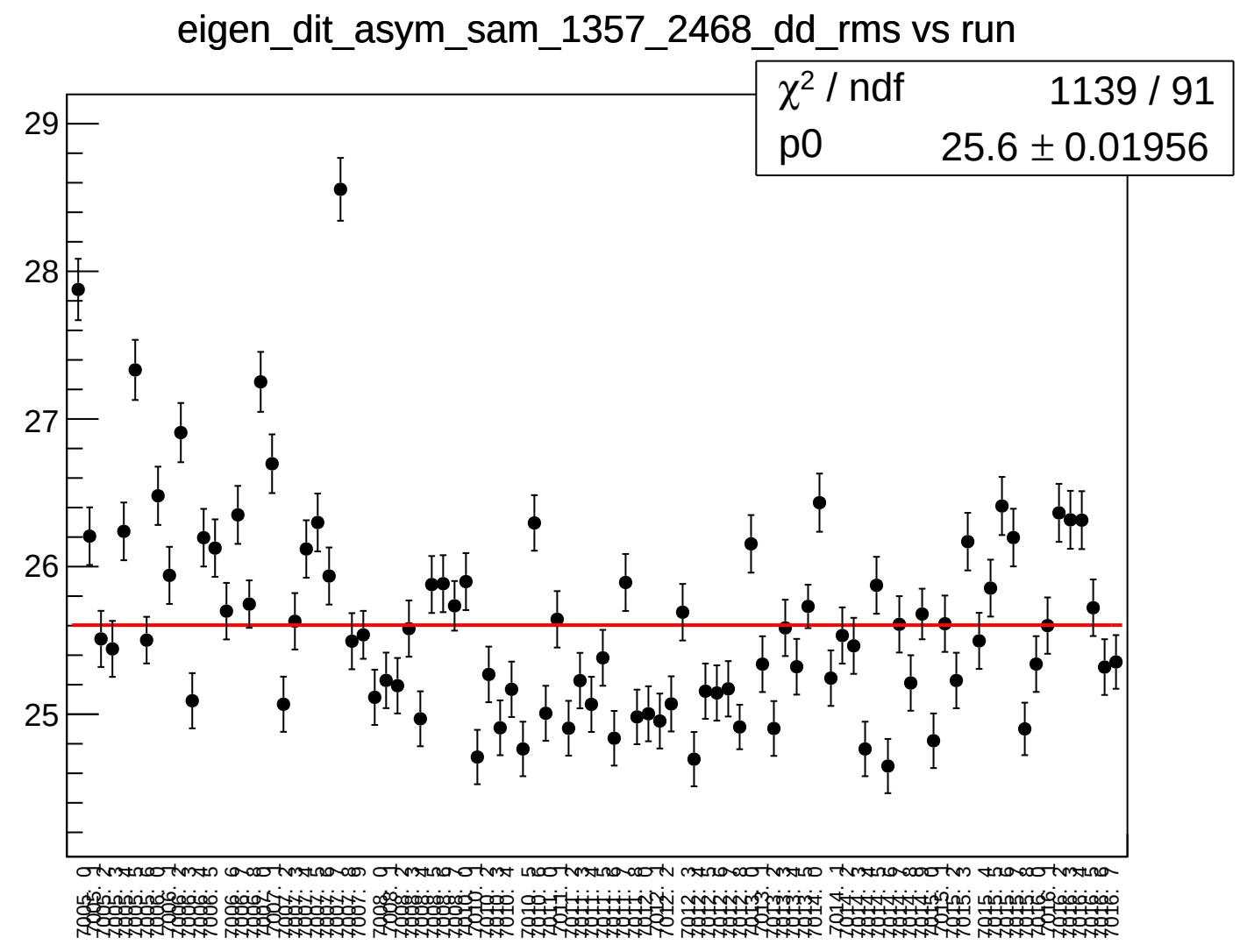

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1139 / 91
p0 25.6 ± 0.01956
29
28
27
26
25

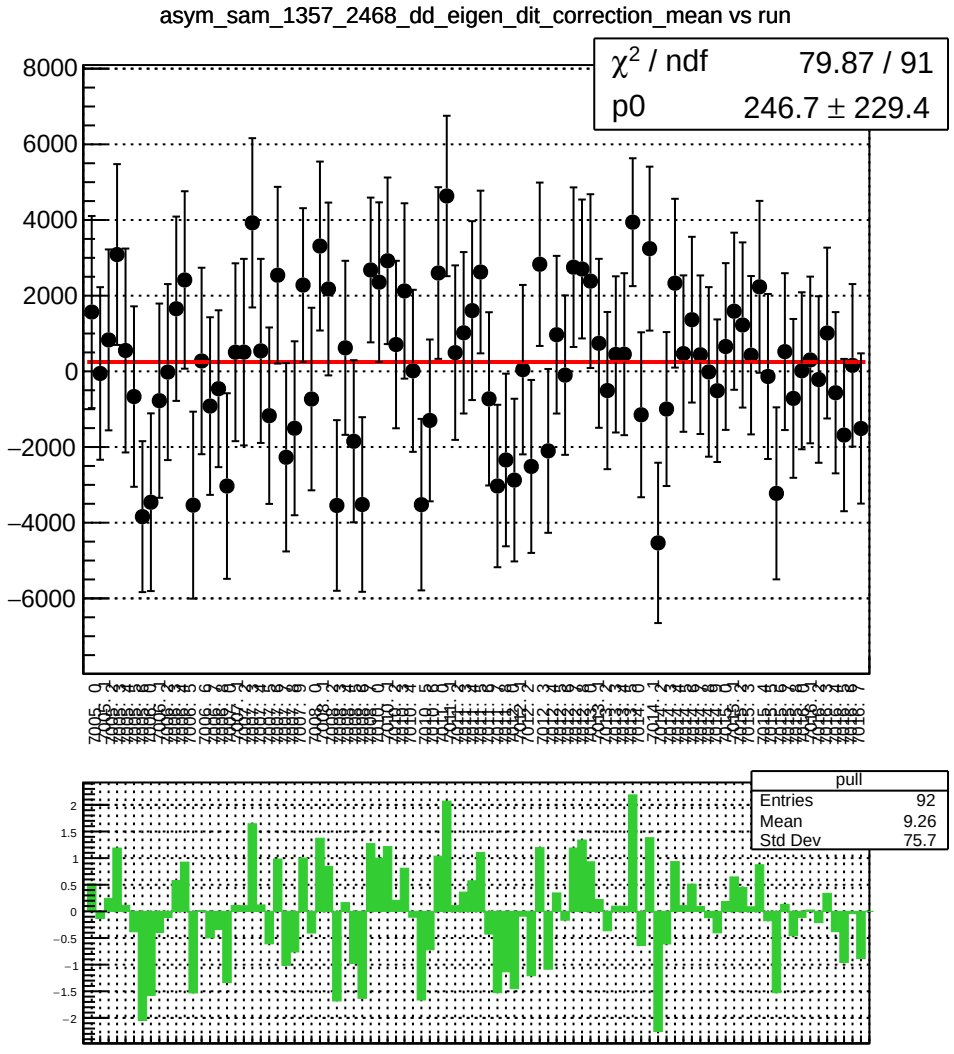

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 79.87 / 91
p0 246.7 ± 229.4
pull
Entries 92
Mean 9.259
Std Dev 75.7
pull1D
Entries 92
Mean −0.01182
Std Dev 0.9316

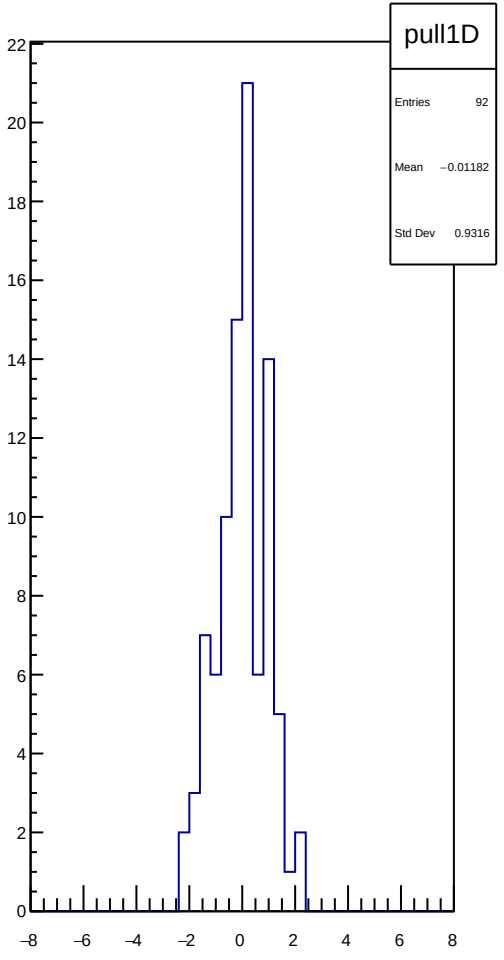

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 5687 / 91
p0 212.1 ± 0.1622
260
250
240
230
220
210
200
190

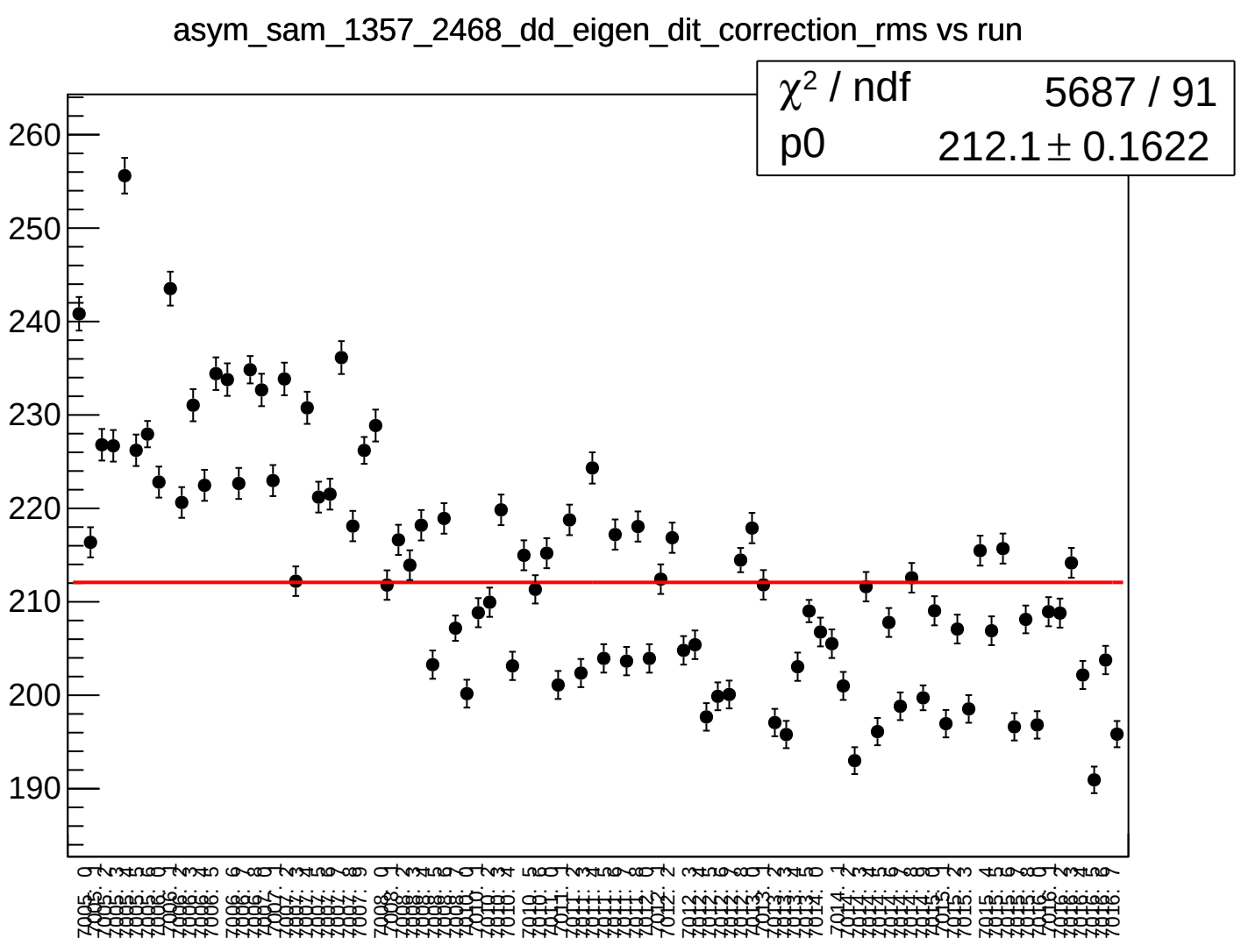

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 76.98 / 91
p0 57.89 ± 27.66
pull
Entries 92
Mean 172.2
Std Dev 0

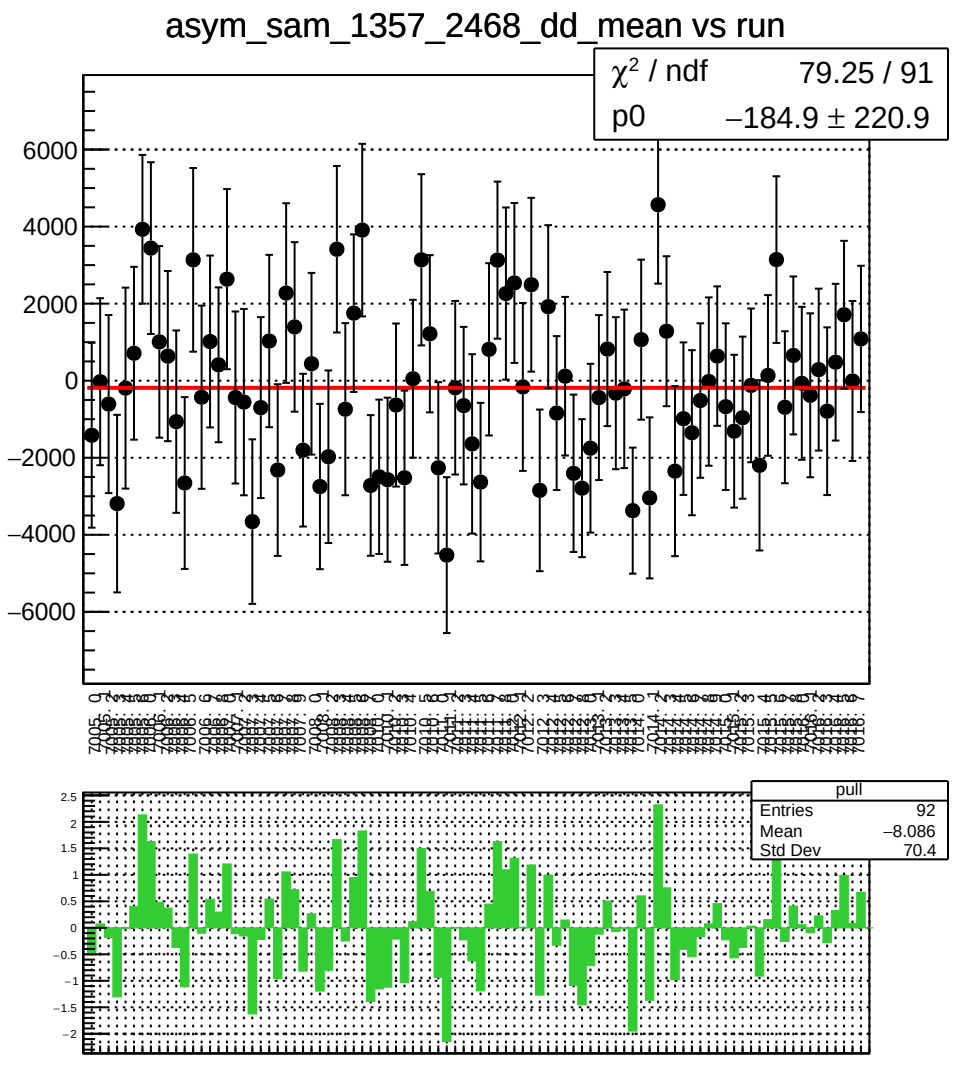

pull1D
Entries 92
Mean −0.007613
Std Dev 0.9147

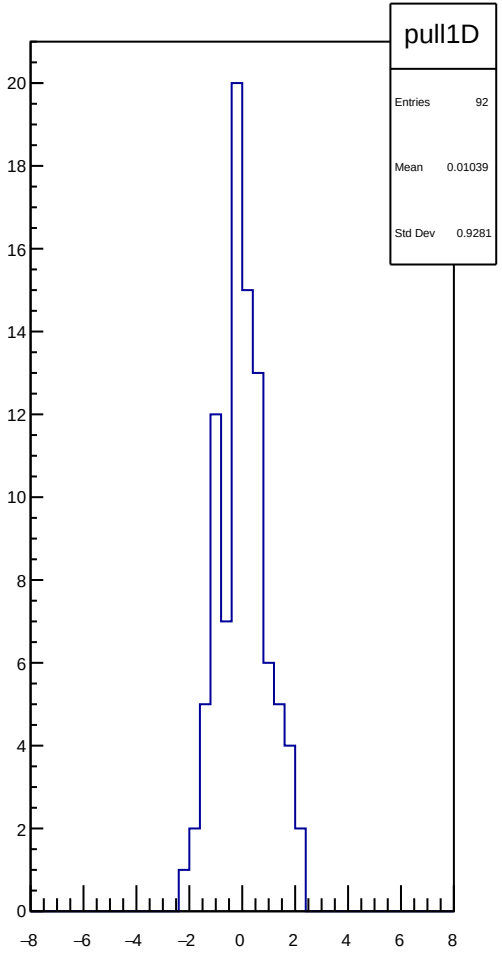

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1139 / 91
p0 25.6 ± 0.01956
29
28
27
26
25

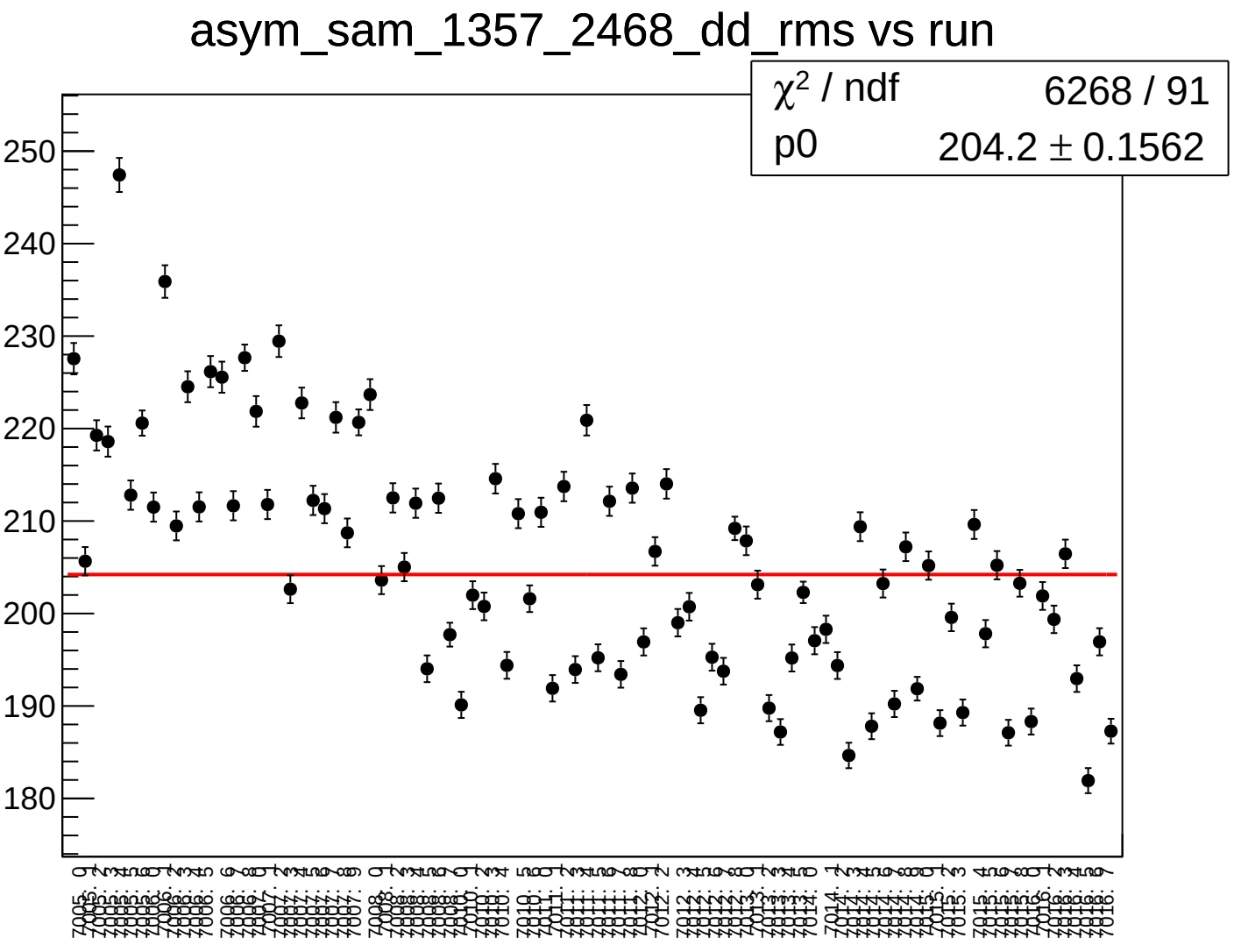

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.87 / 91
p0 246.7 ± 229.4
pull
Entries 92
Mean 9.26
Std Dev 75.7

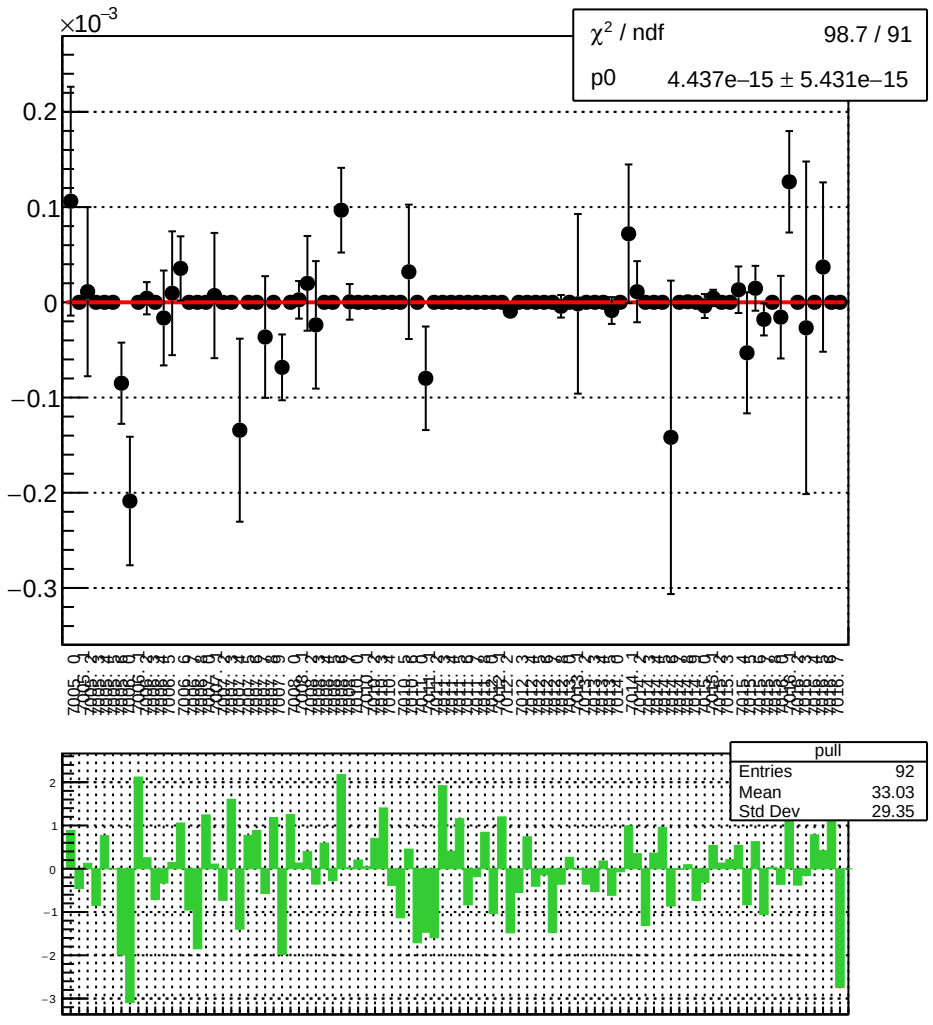

pull1D
Entries 92
Mean −0.01182
Std Dev 0.9316

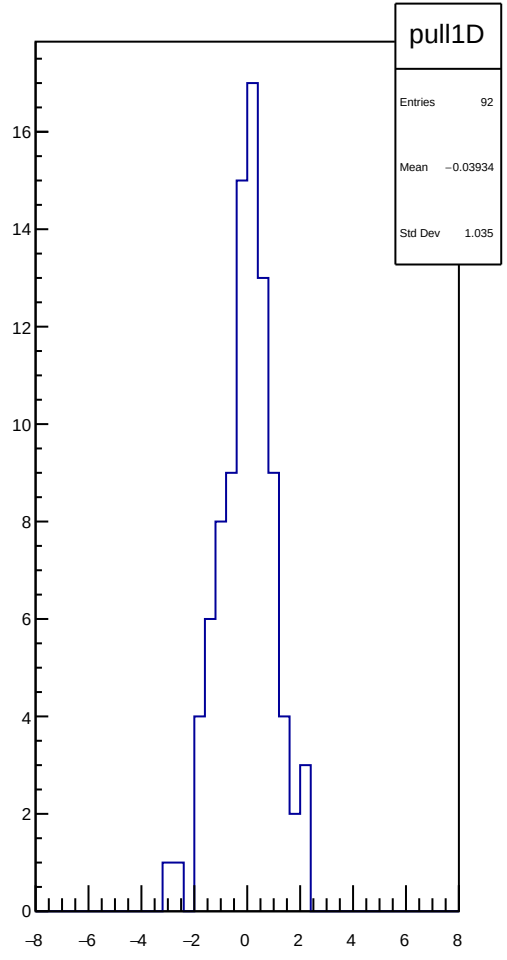

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 5687 / 91
p0 212.1 ± 0.1622
260
250
240
230
220
210
200
190

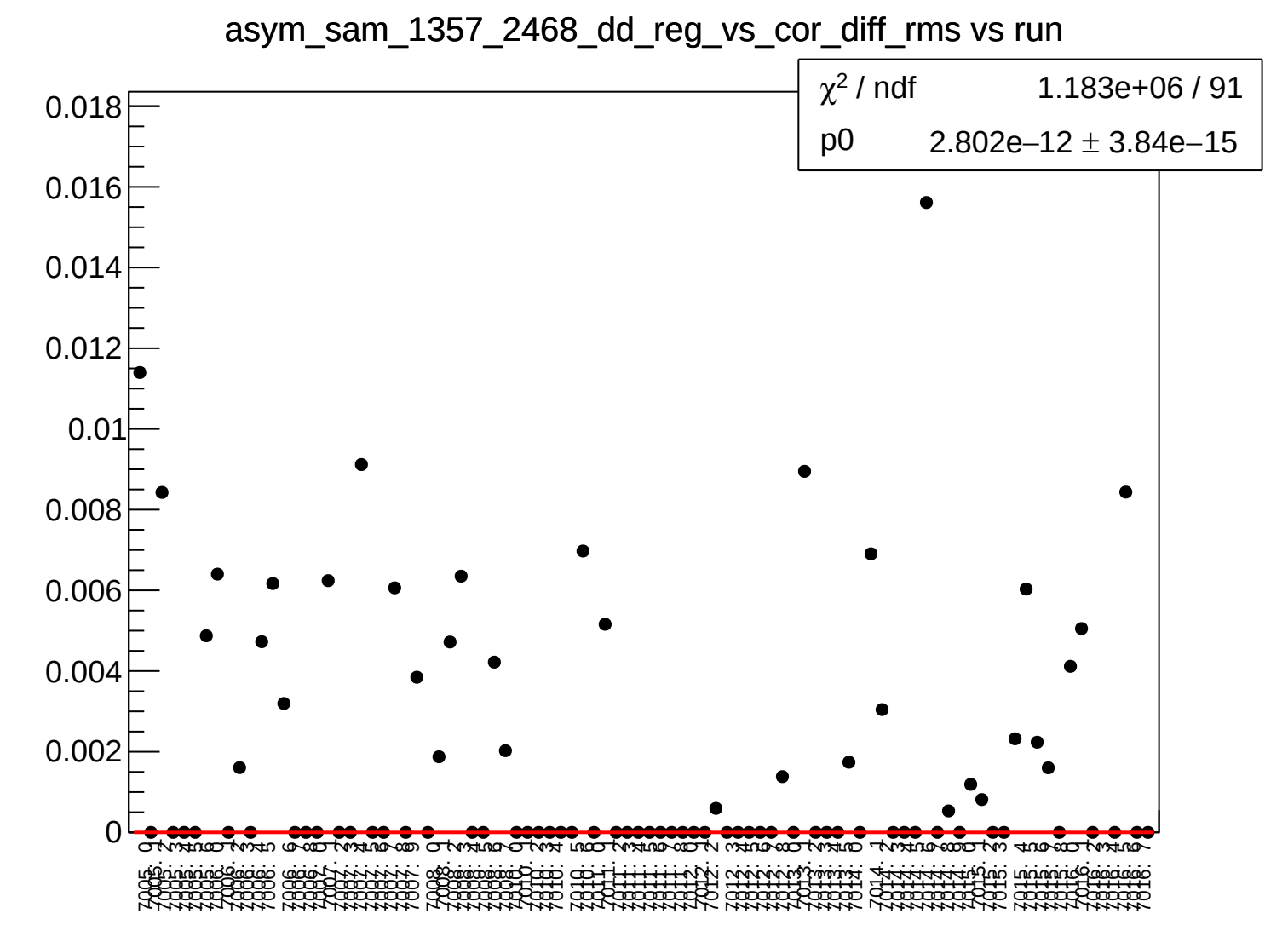

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 79.25 / 91
p0 −184.9 ± 220.9
pull
Entries 92
Mean −8.086
Std Dev 70.4

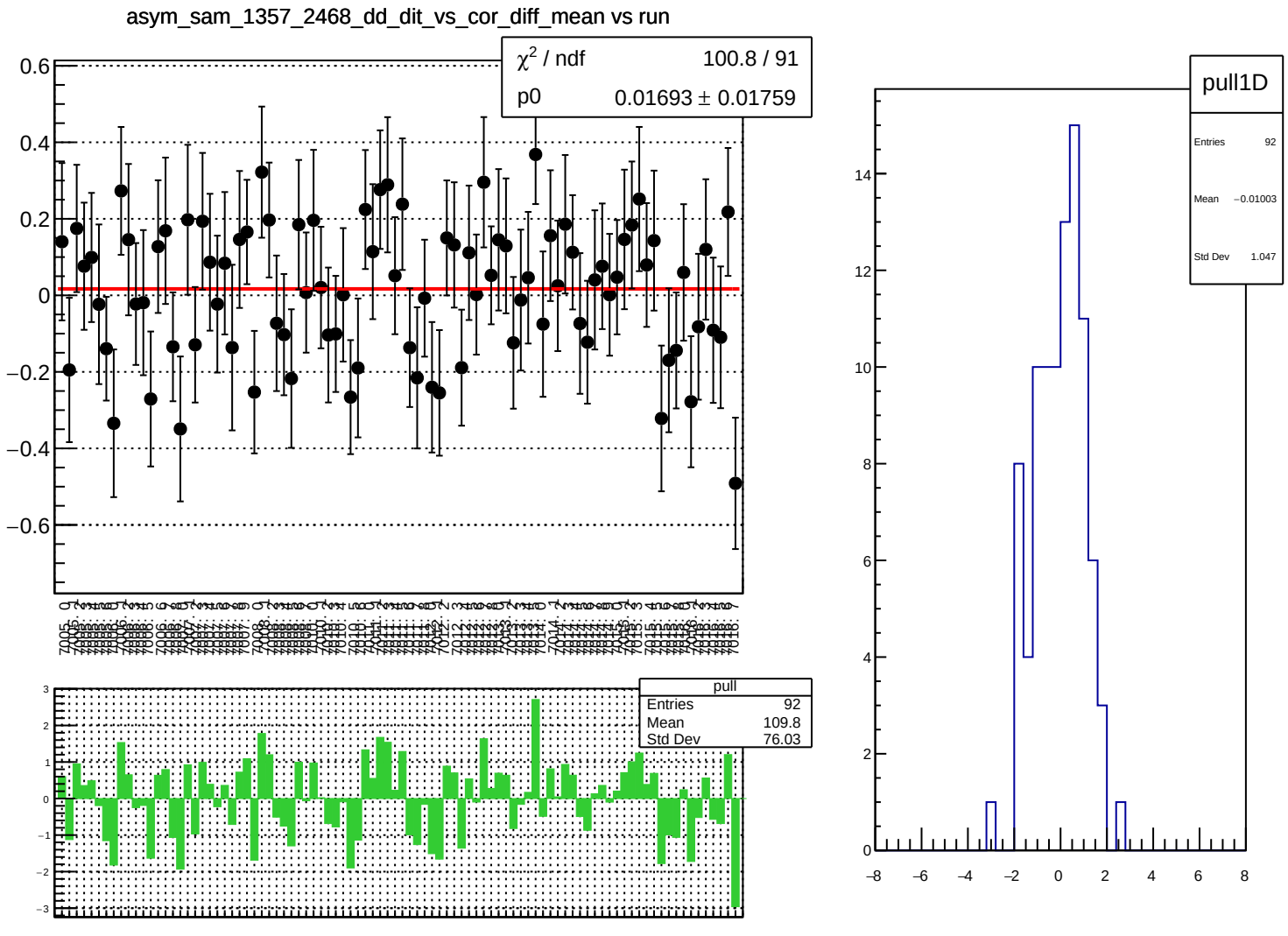

pull1D
Entries 92
Mean 0.01039
Std Dev 0.9281

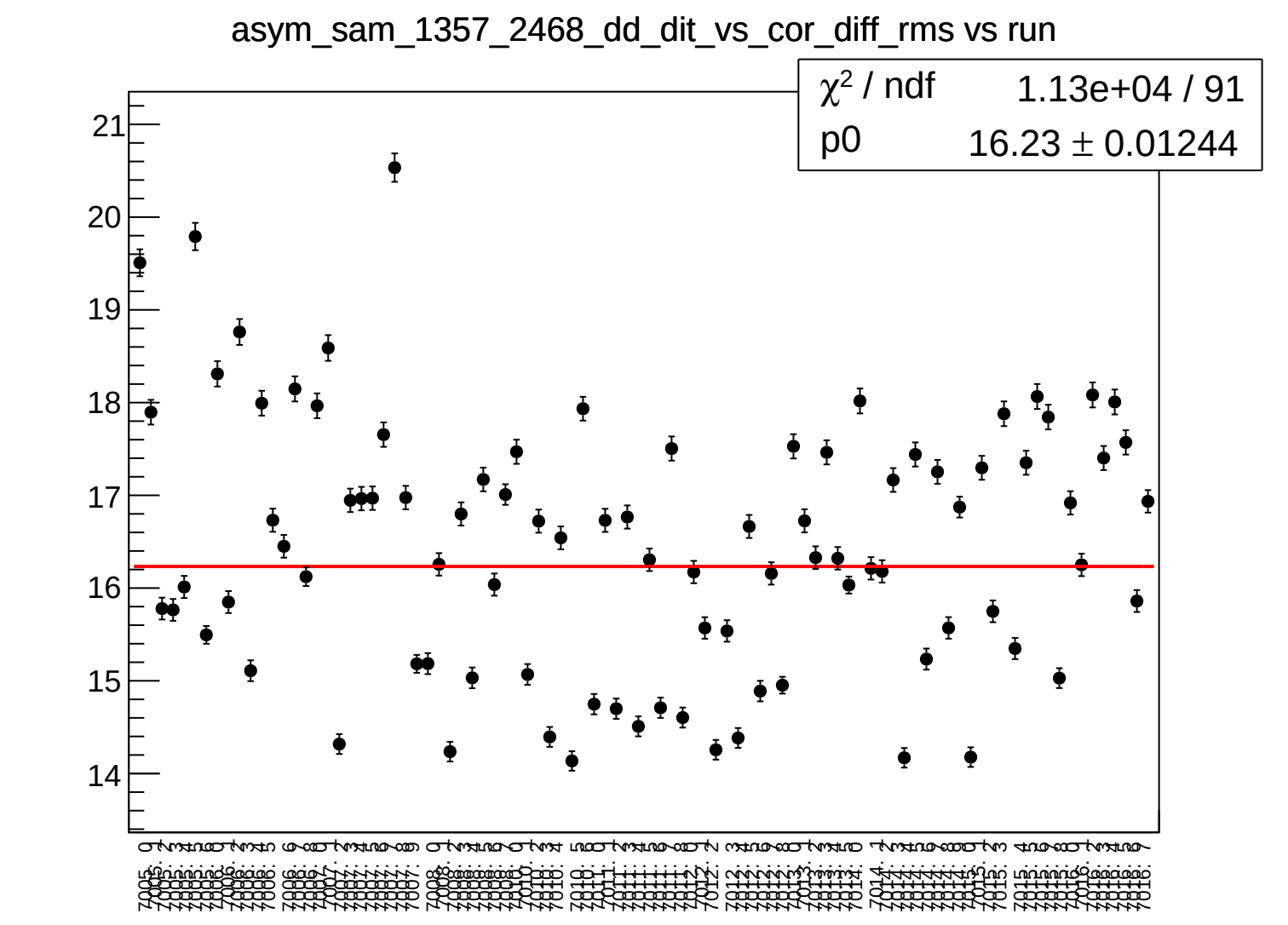

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6268 / 91
p0 204.2 ± 0.1562
250
240
230
220
210
200
190
180

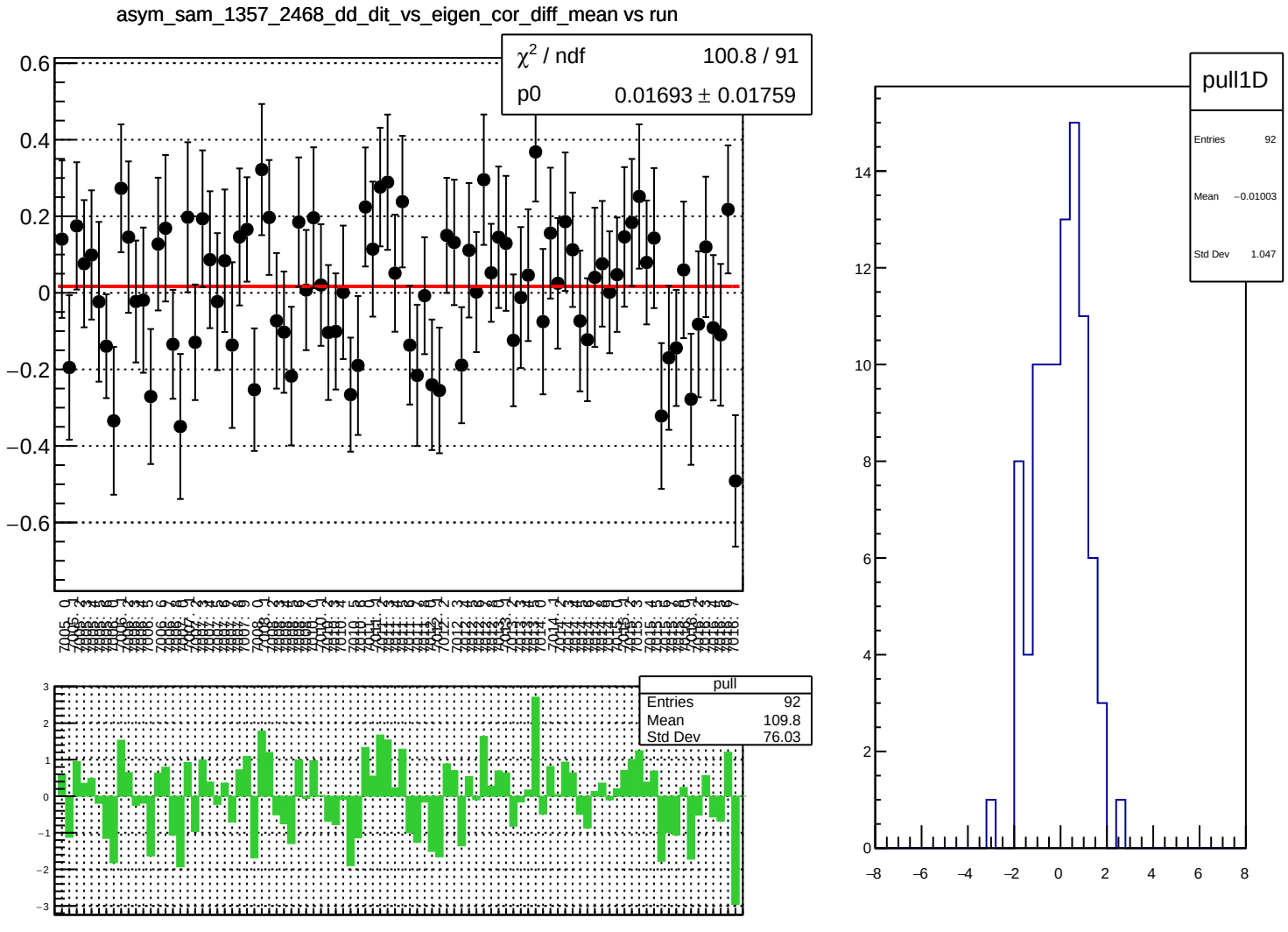

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 98.7 / 91
p0 4.437e−15 ± 5.431e−15
pull
Entries 92
Mean 33.03
Std Dev 29.35

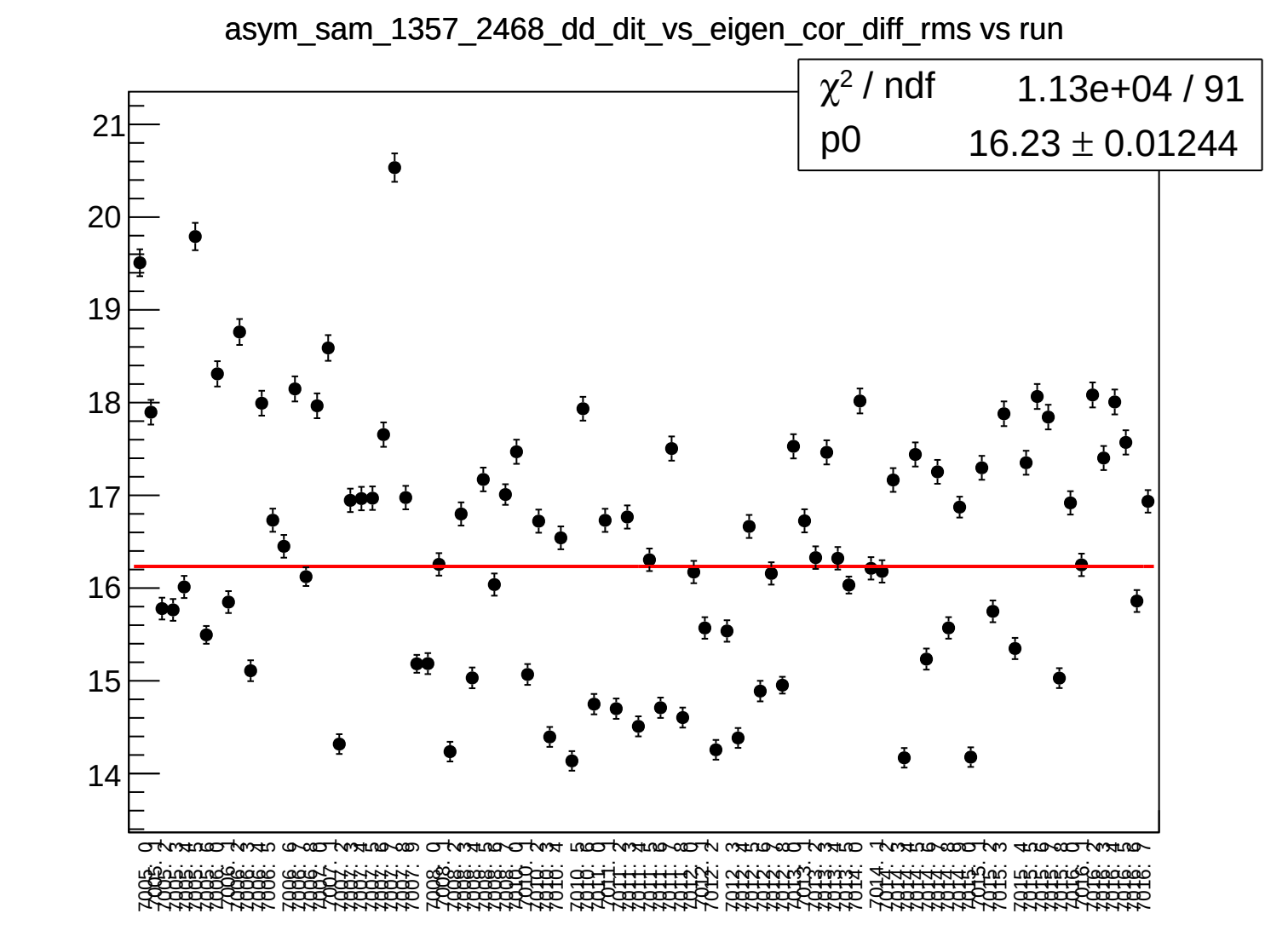

pull1D
Entries 92
Mean −0.03934
Std Dev 1.035

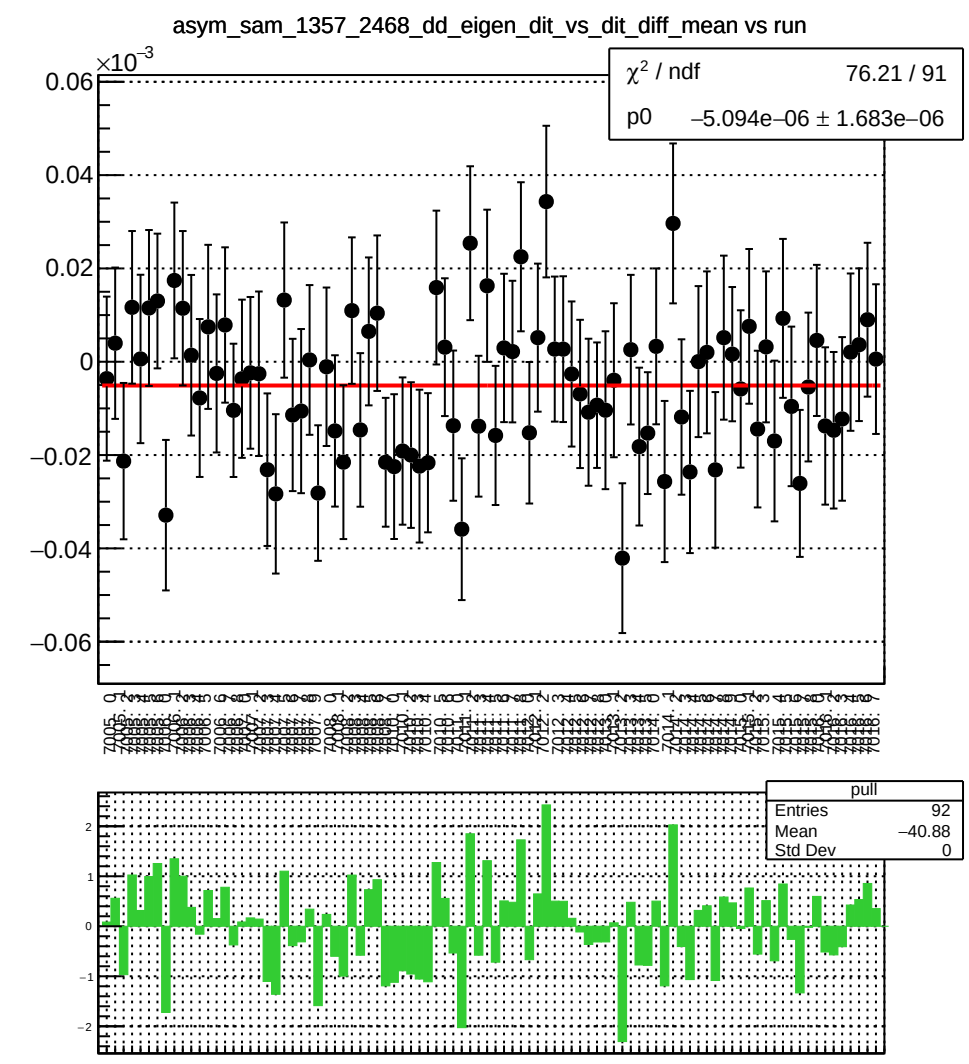

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.183e+06 / 91
p0 2.802e−12 ± 3.84e−15
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

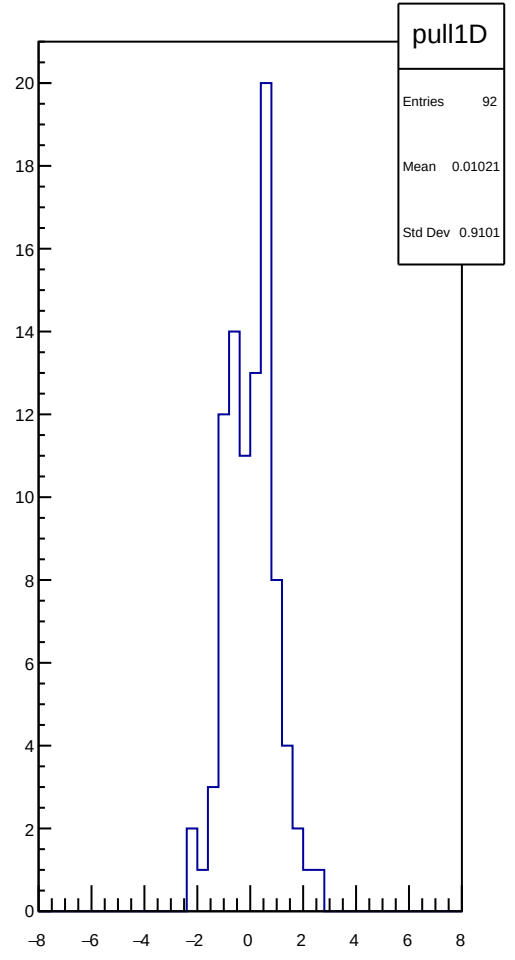

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 91
p0 0.01693 ± 0.01759
pull
Entries 92
Mean 109.8
Std Dev 76.03
pull1D
Entries 92
Mean −0.01003
Std Dev 1.047

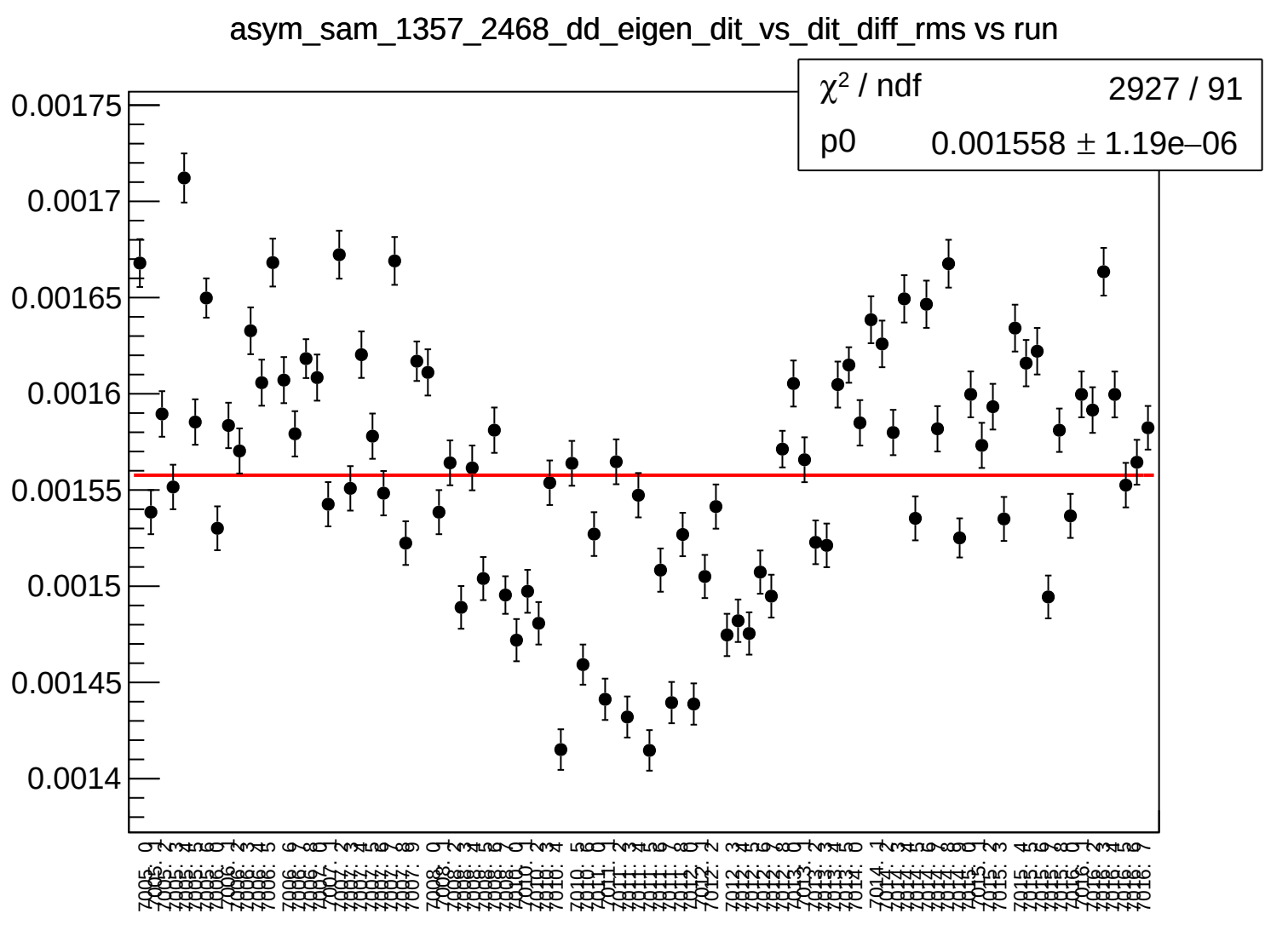

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.13e+04 / 91
p0 16.23 ± 0.01244
21
20
19
18
17
16
15
14

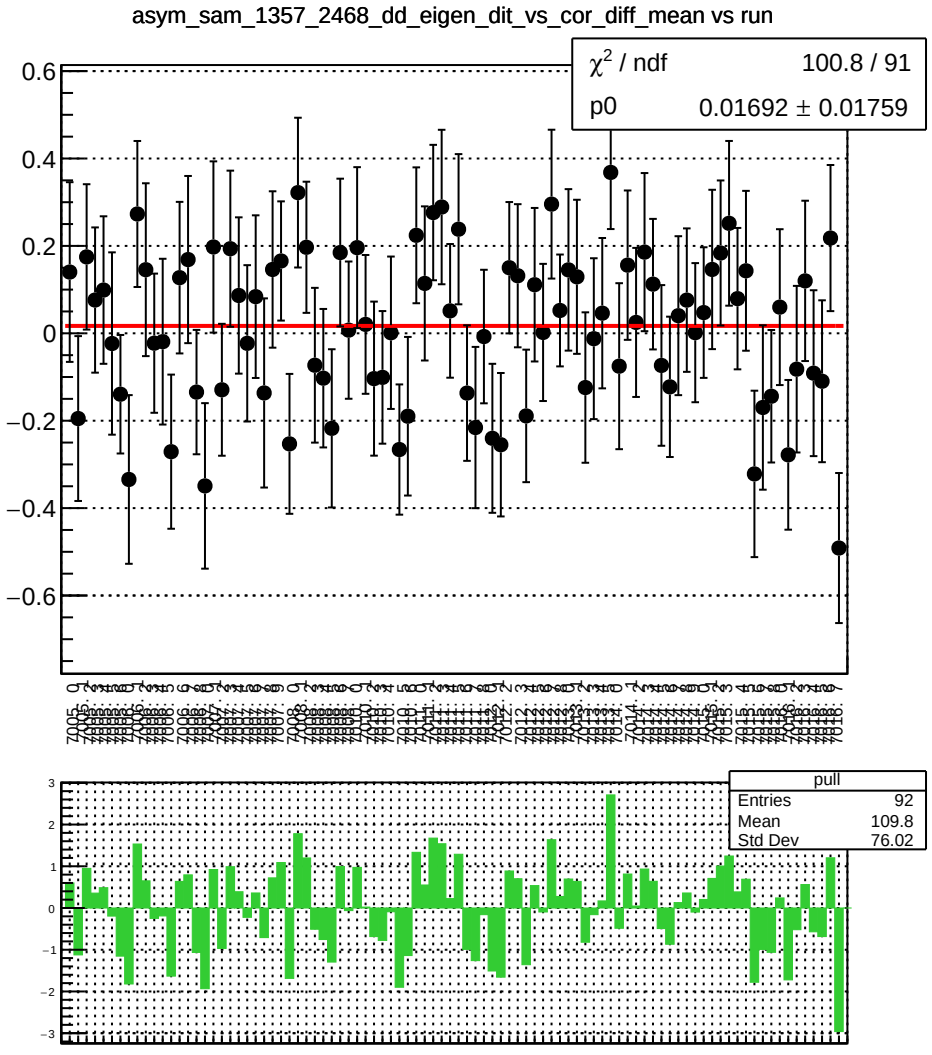

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 91
p0 0.01693 ± 0.01759
pull
Entries 92
Mean 109.8
Std Dev 76.03
pull1D
Entries 92
Mean −0.01003
Std Dev 1.047

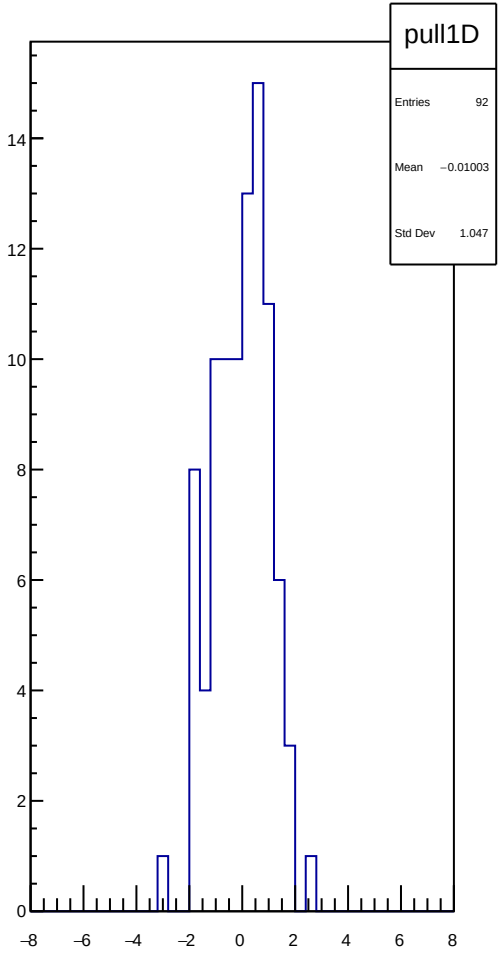

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.13e+04 / 91
p0 16.23 ± 0.01244
21
20
19
18
17
16
15
14

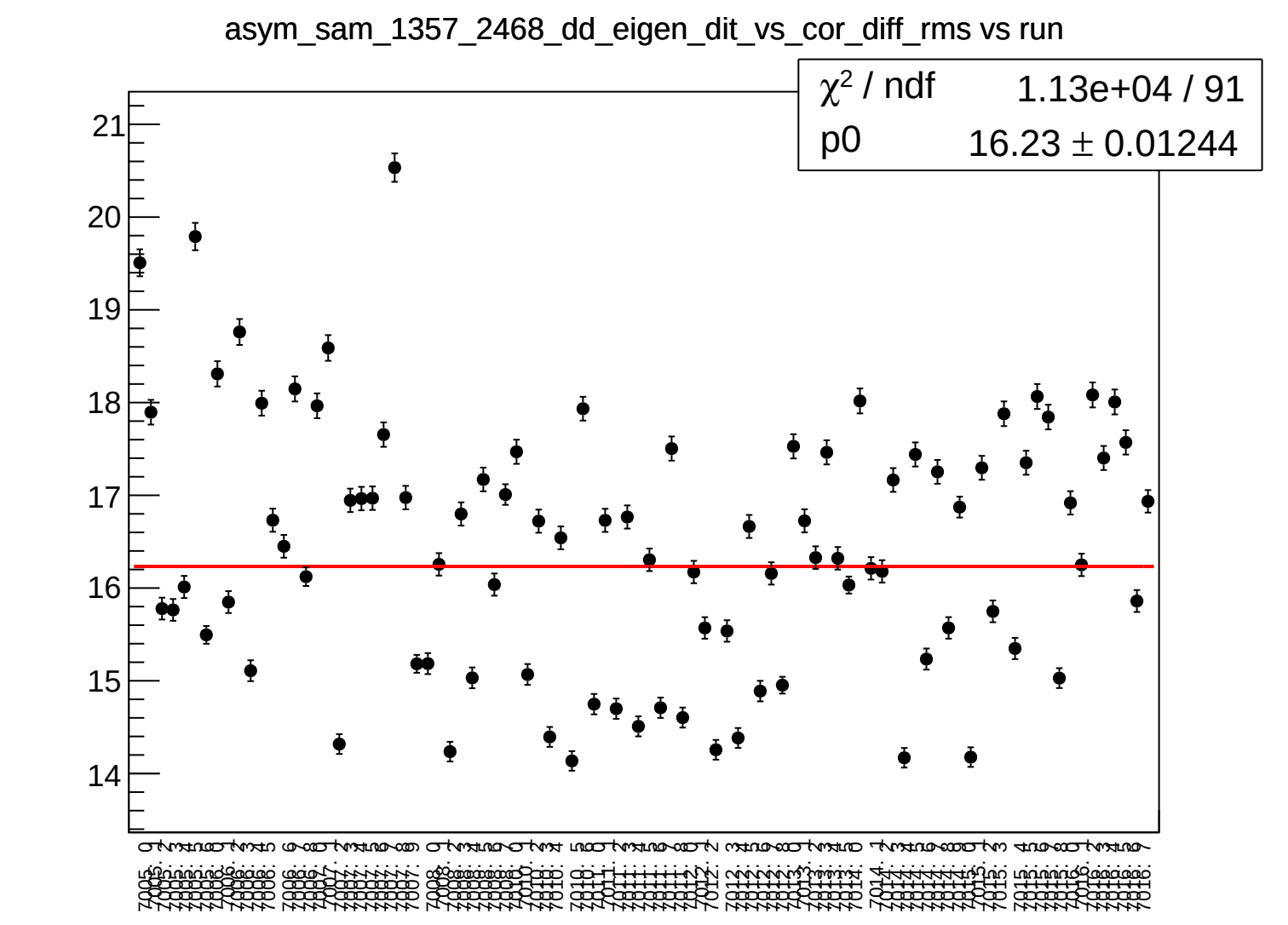

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.21 / 91
p0 −5.094e−06 ± 1.683e−06
pull
Entries 92
Mean −40.88
Std Dev 0

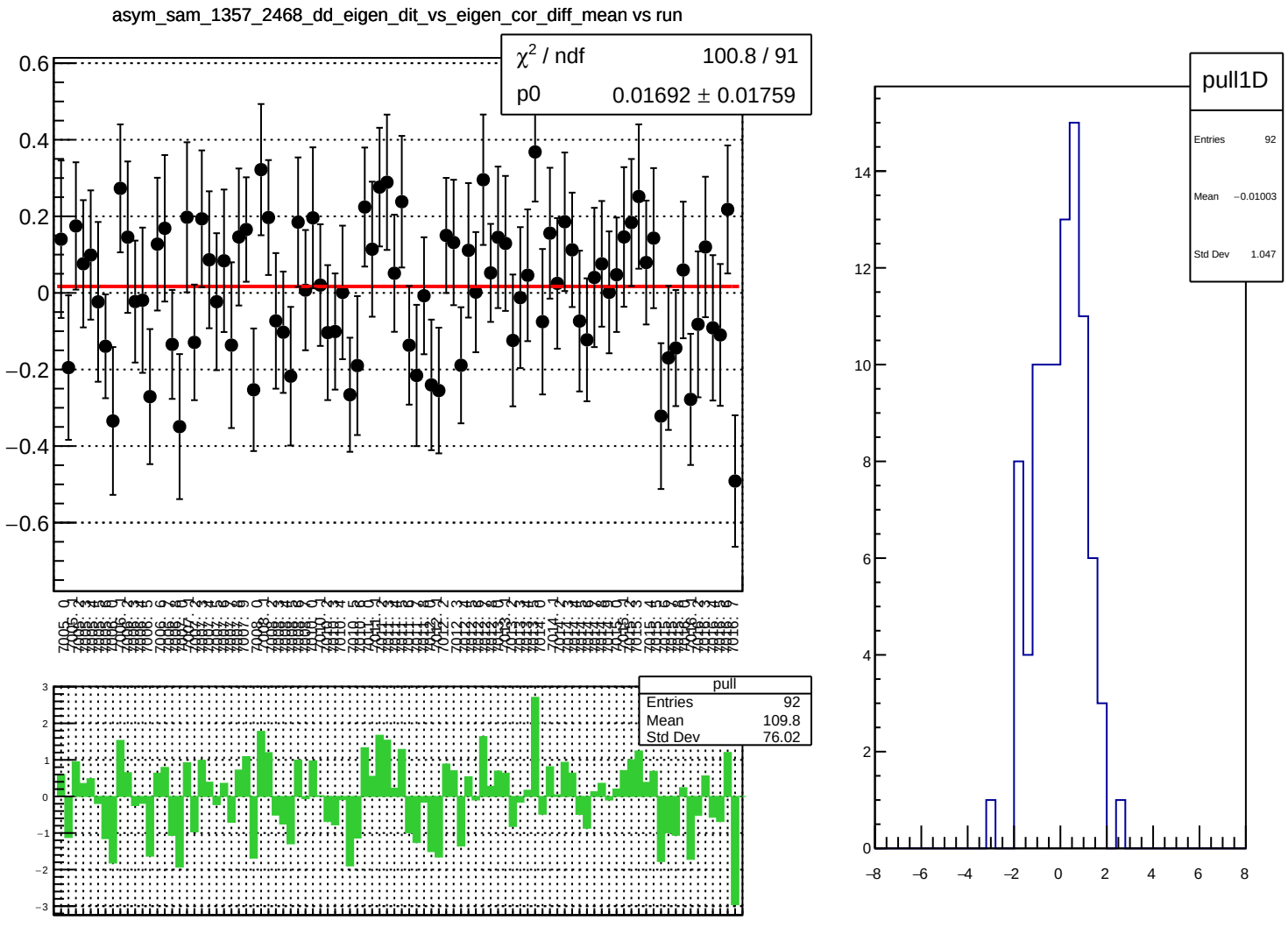

pull1D
Entries 92
Mean 0.01021
Std Dev 0.9101

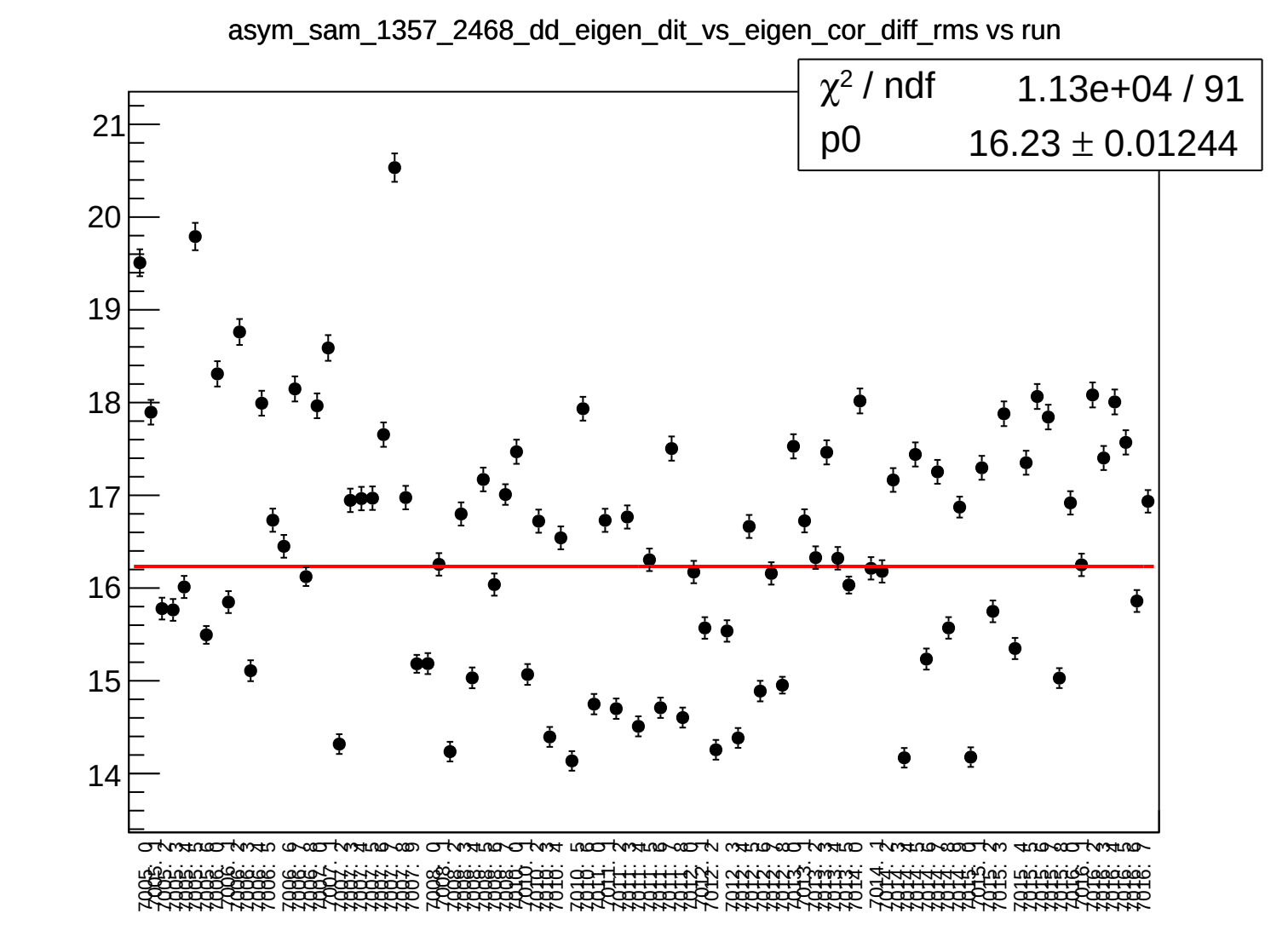

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2927 / 91
p0 0.001558 ± 1.19e–06
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014

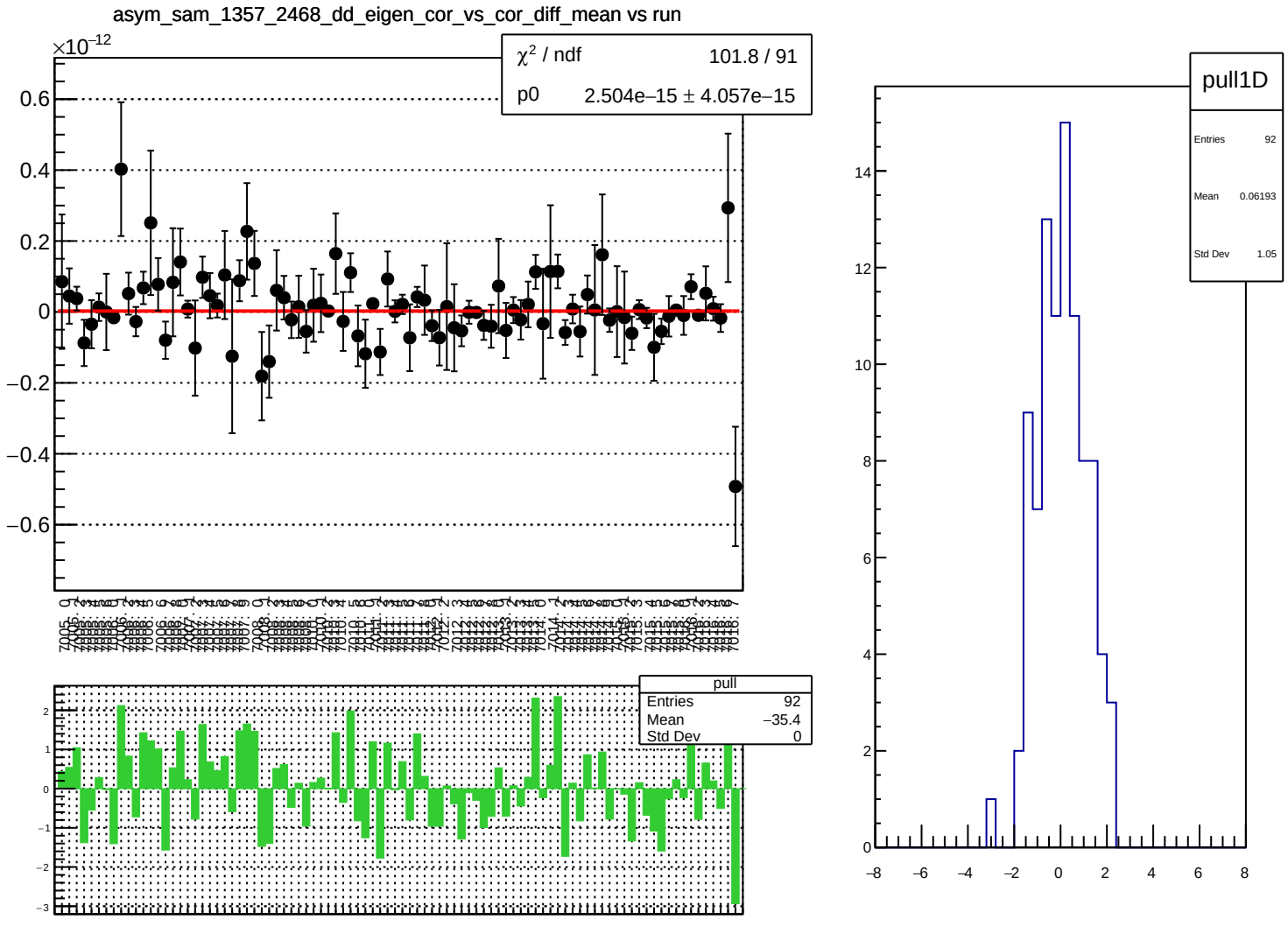

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 91
p0 0.01692 ± 0.01759
pull
Entries 92
Mean 109.8
Std Dev 76.02

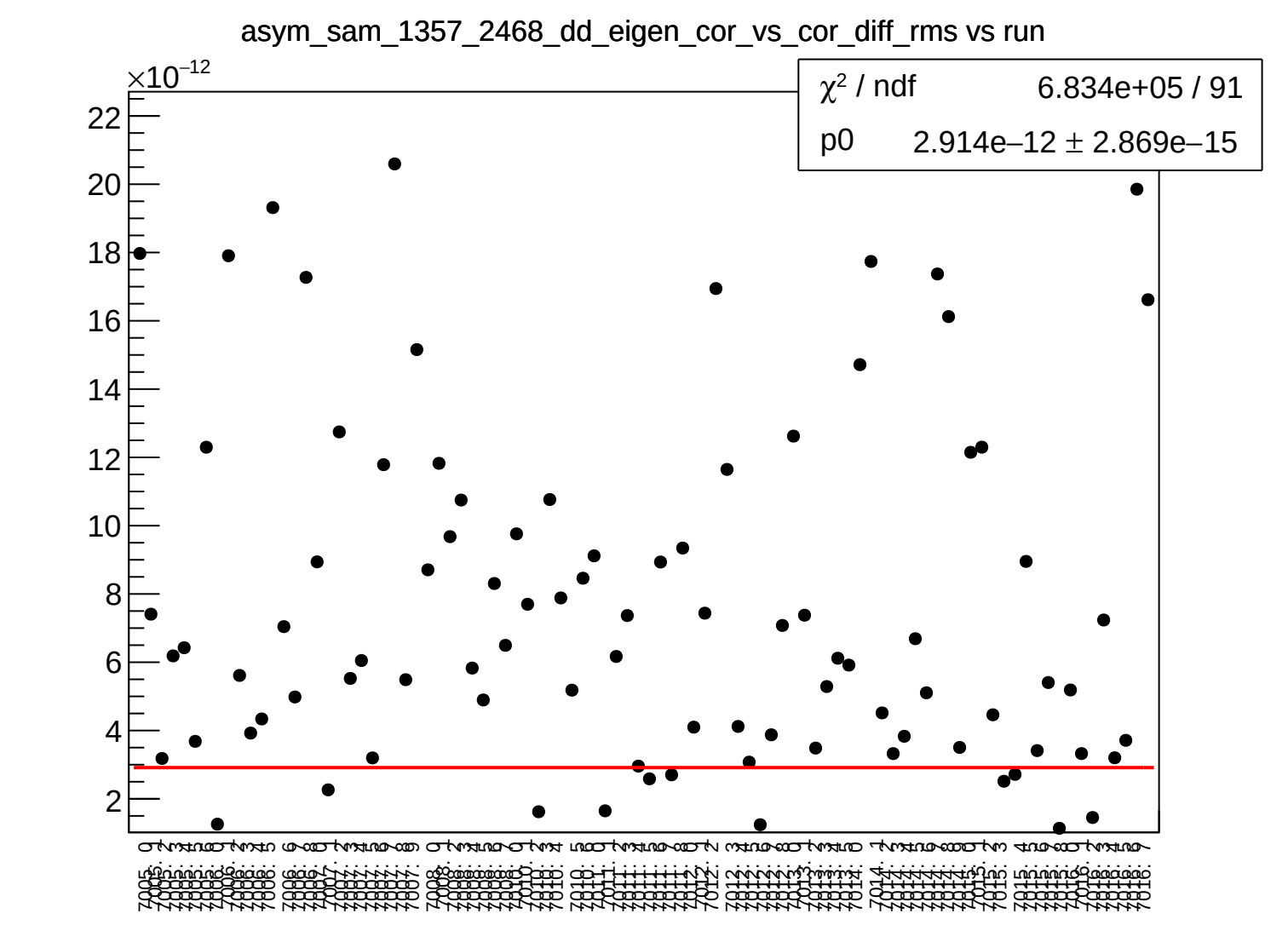

pull1D
Entries 92
Mean −0.01003
Std Dev 1.047

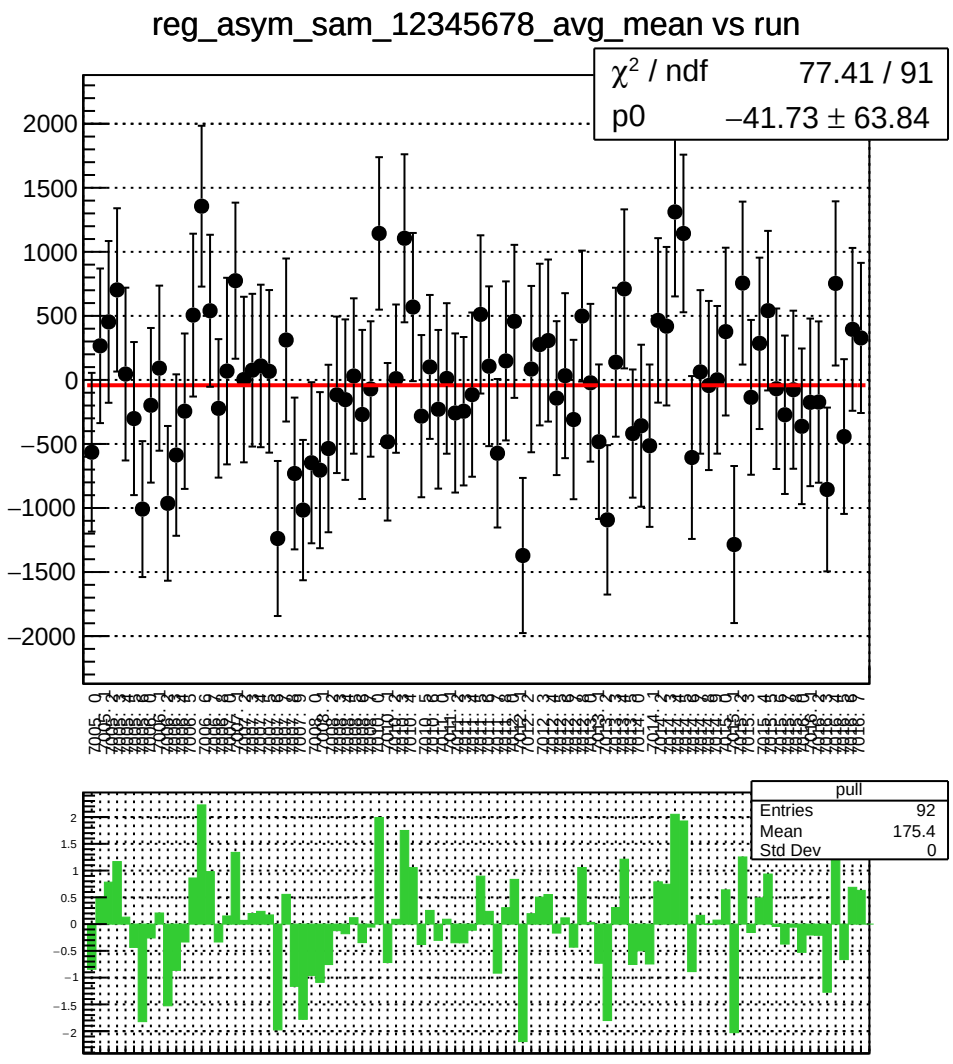

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.13e+04 / 91
p0 16.23 ± 0.01244
21
20
19
18
17
16
15
14

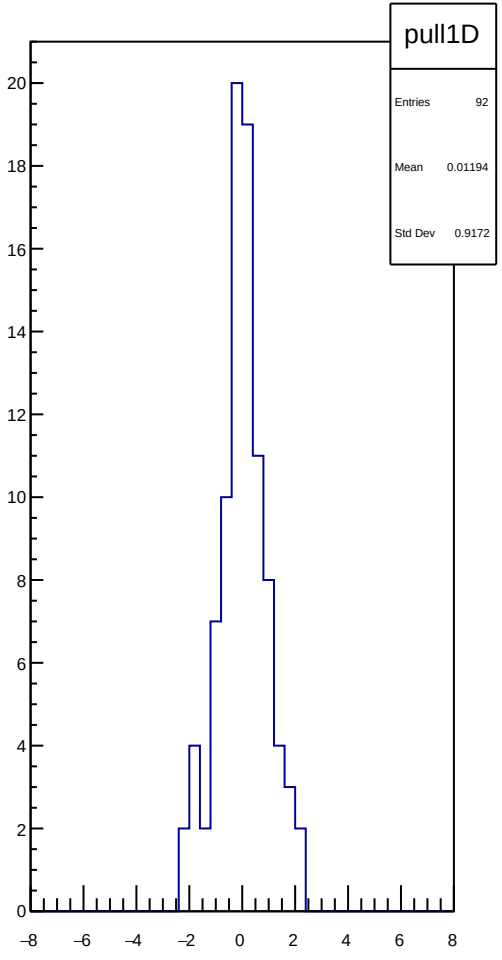

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.8 / 91
p0 0.01692 ± 0.01759
pull
Entries 92
Mean 109.8
Std Dev 76.02
pull1D
Entries 92
Mean −0.01003
Std Dev 1.047

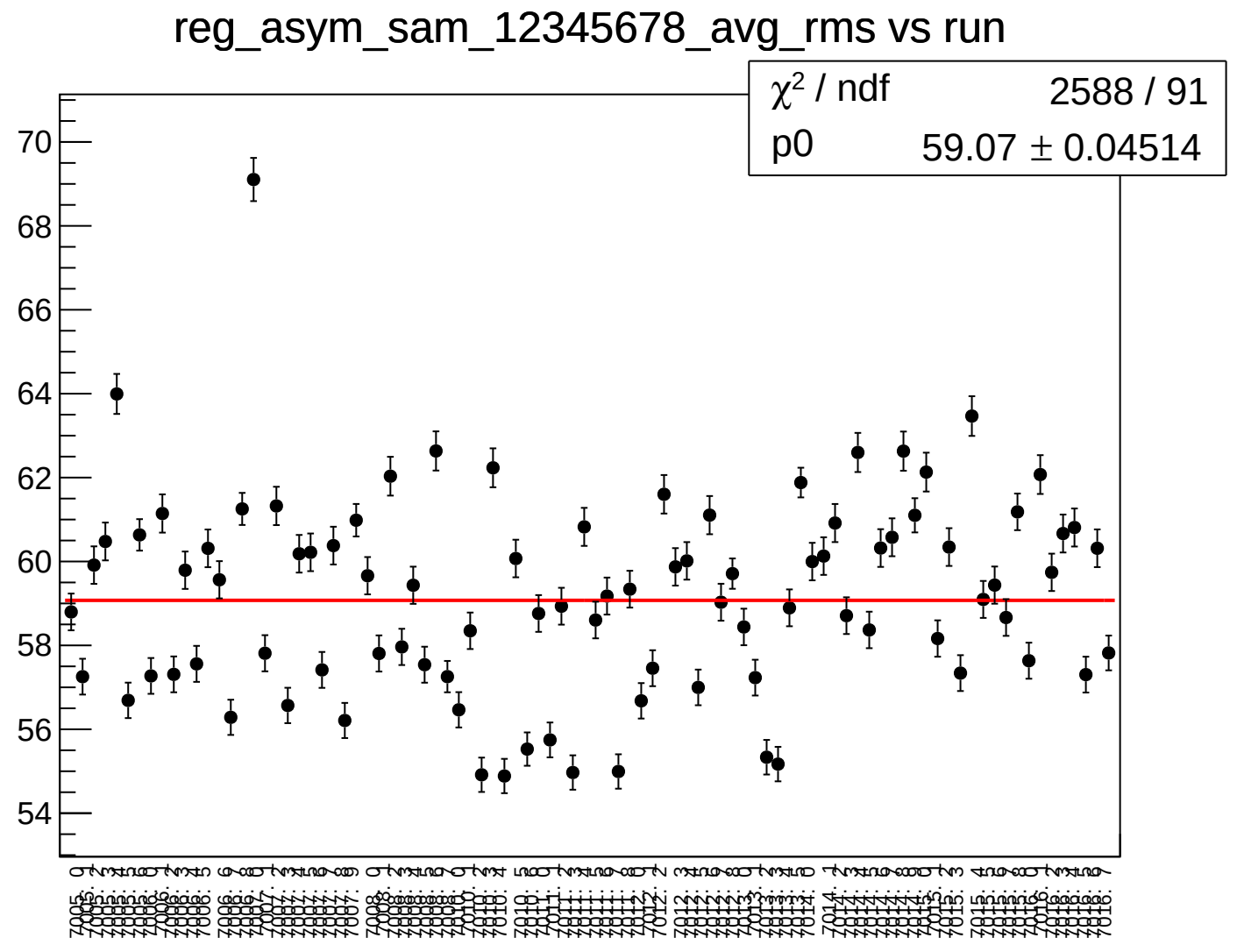

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.13e+04 / 91
p0 16.23 ± 0.01244
21
20
19
18
17
16
15
14

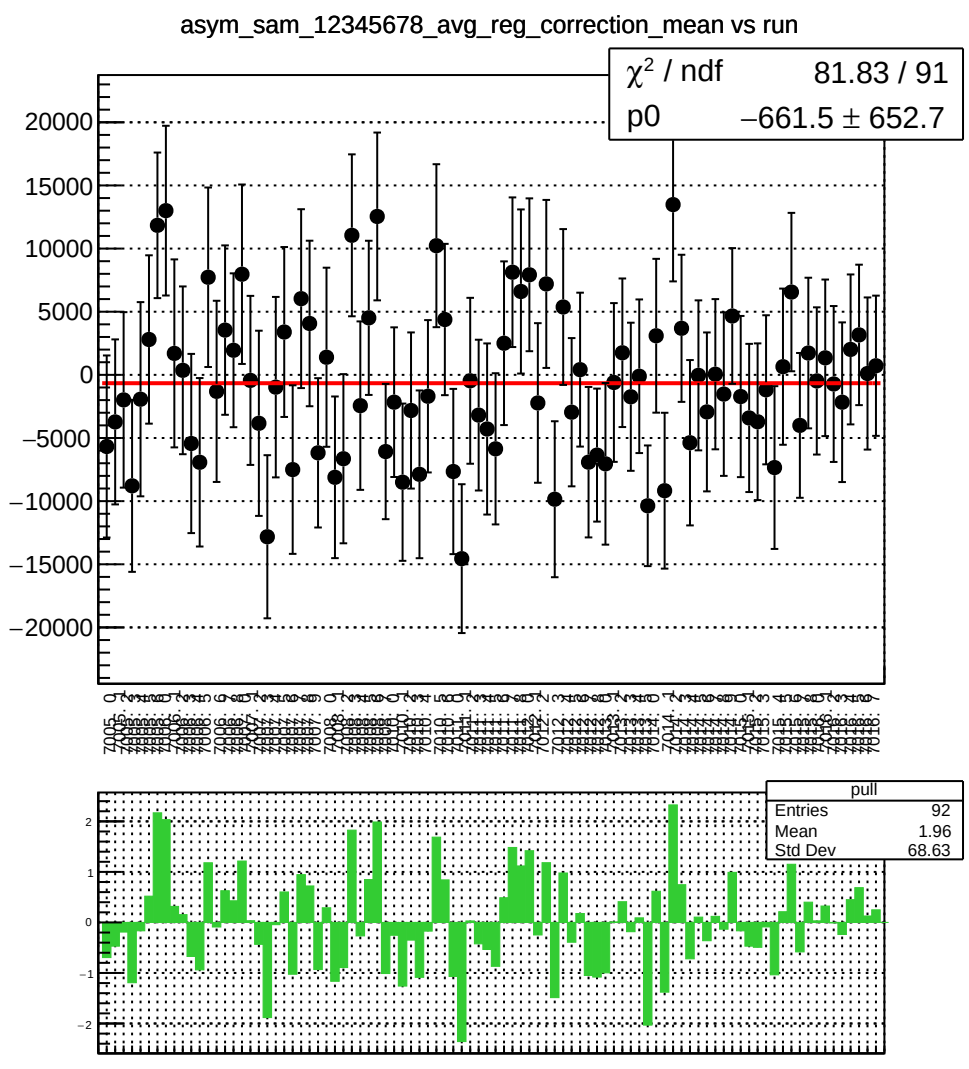

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.8 / 91
p0 2.504e−15 ± 4.057e−15
pull
Entries 92
Mean −35.4
Std Dev 0
pull1D
Entries 92
Mean 0.06193
Std Dev 1.05

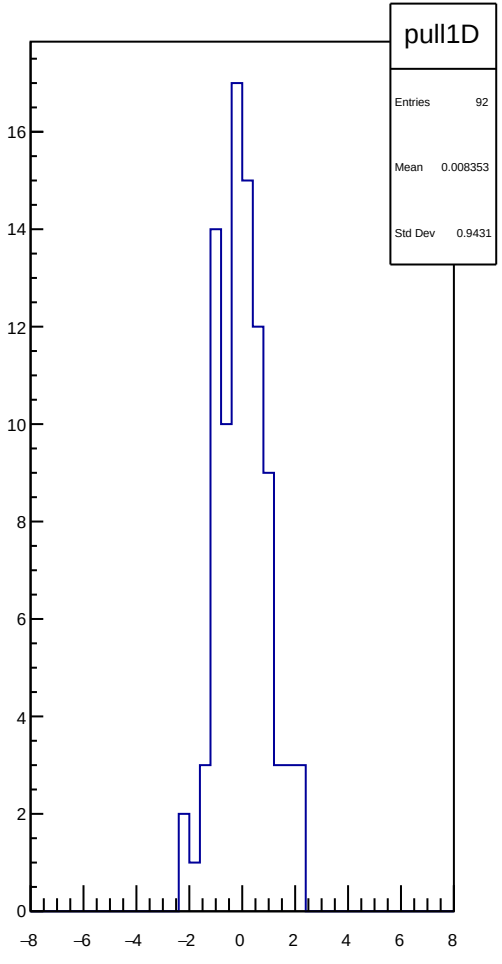

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.834e+05 / 91
p0 2.914e−12 ± 2.869e−15
22
20
18
16
14
12
10
8
6
4
2

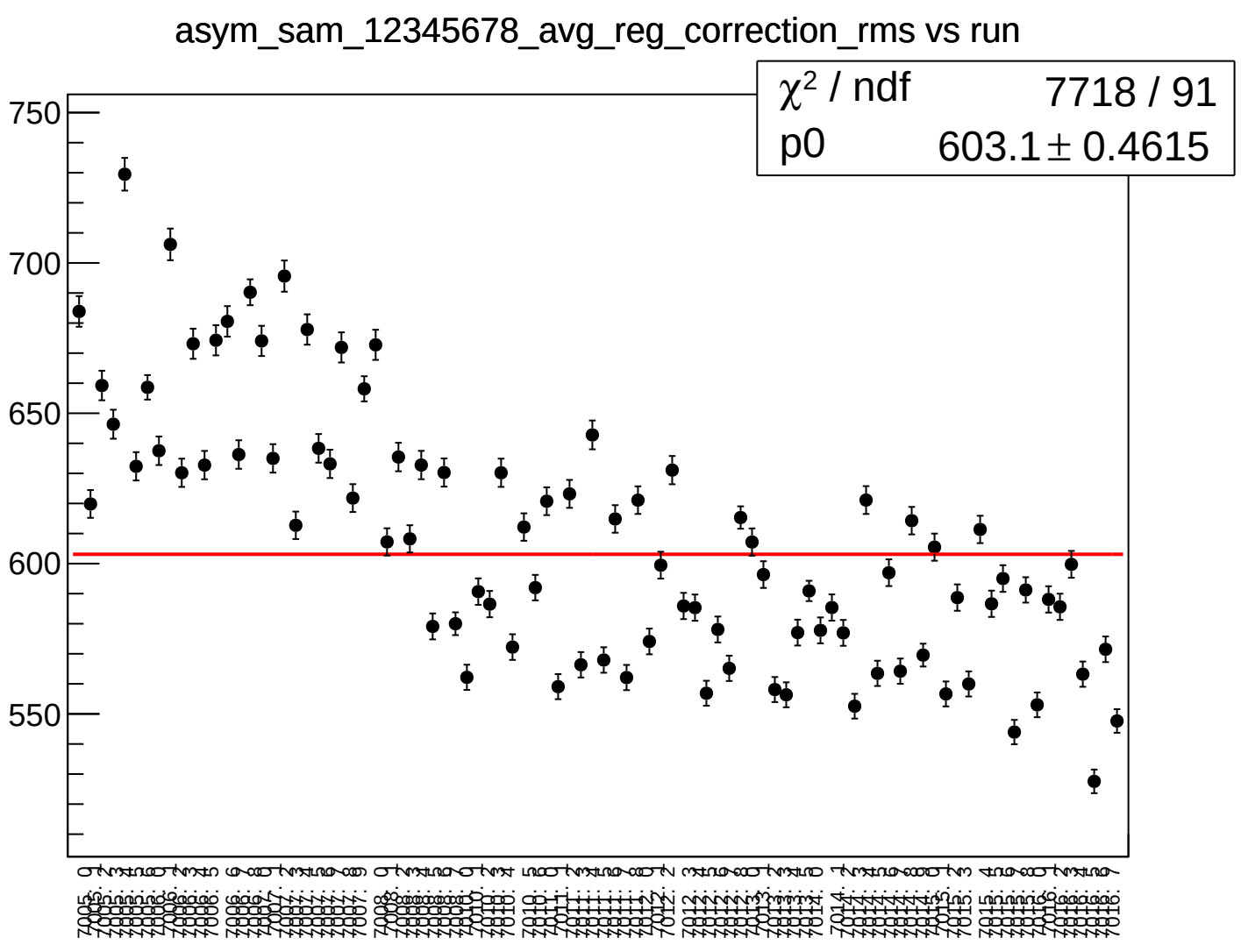

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 77.41 / 91
p0 −41.73 ± 63.84
pull
Entries 92
Mean 175.4
Std Dev 0

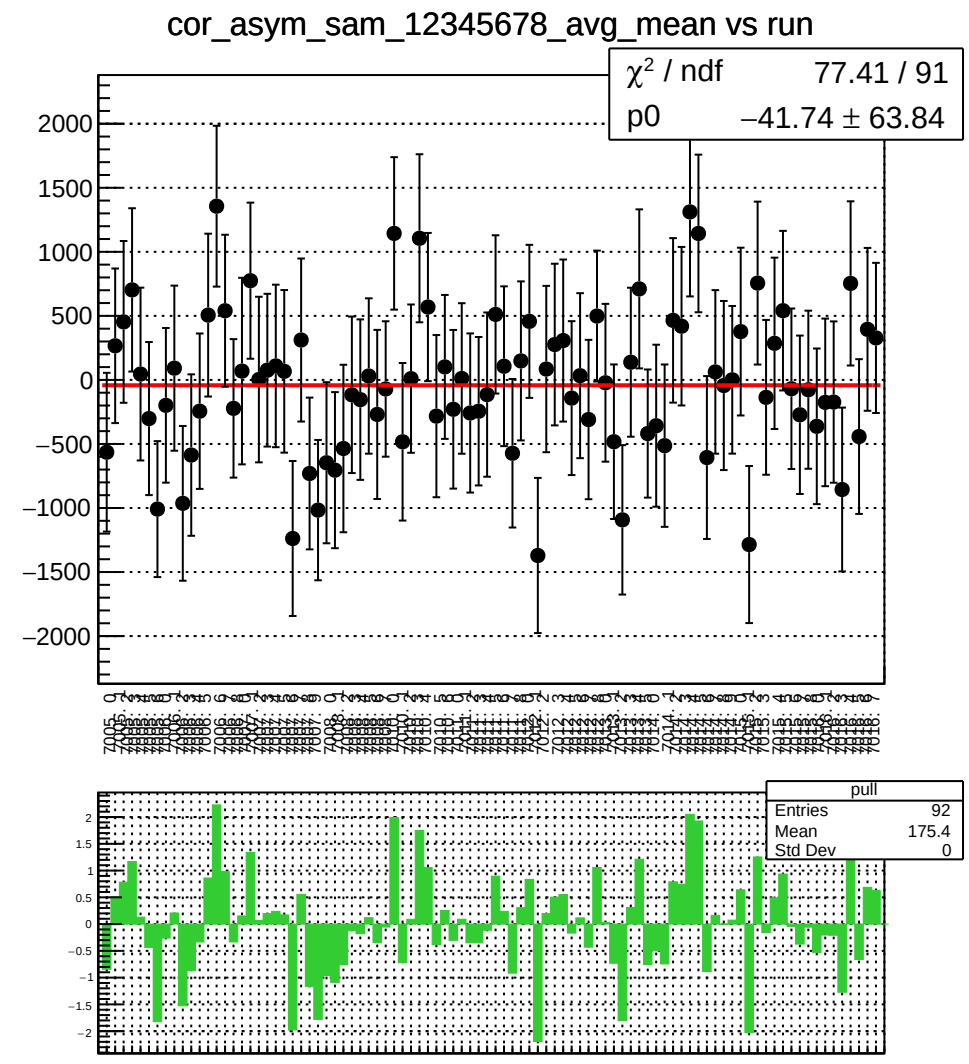

pull1D
Entries 92
Mean 0.01194
Std Dev 0.9172

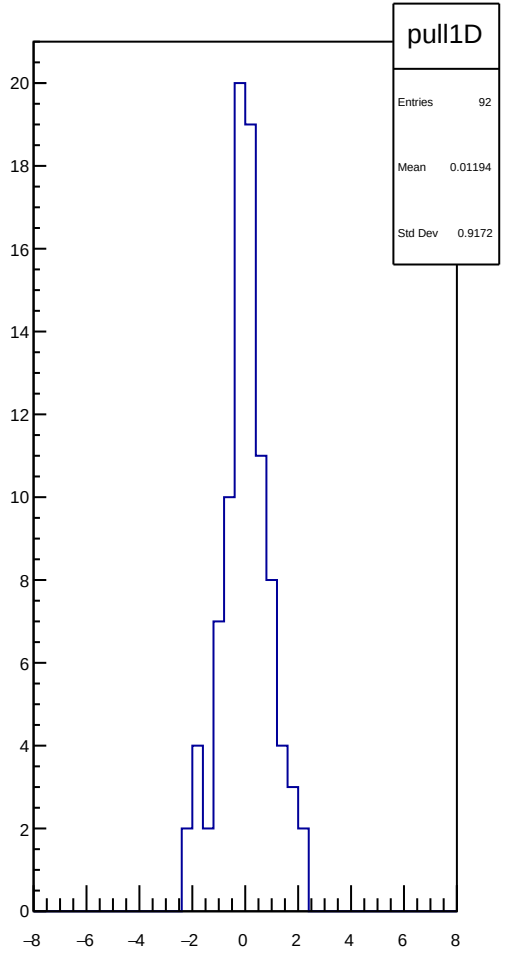

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2588 / 91
p0 59.07 ± 0.04514
70
68
66
64
62
60
58
56
54

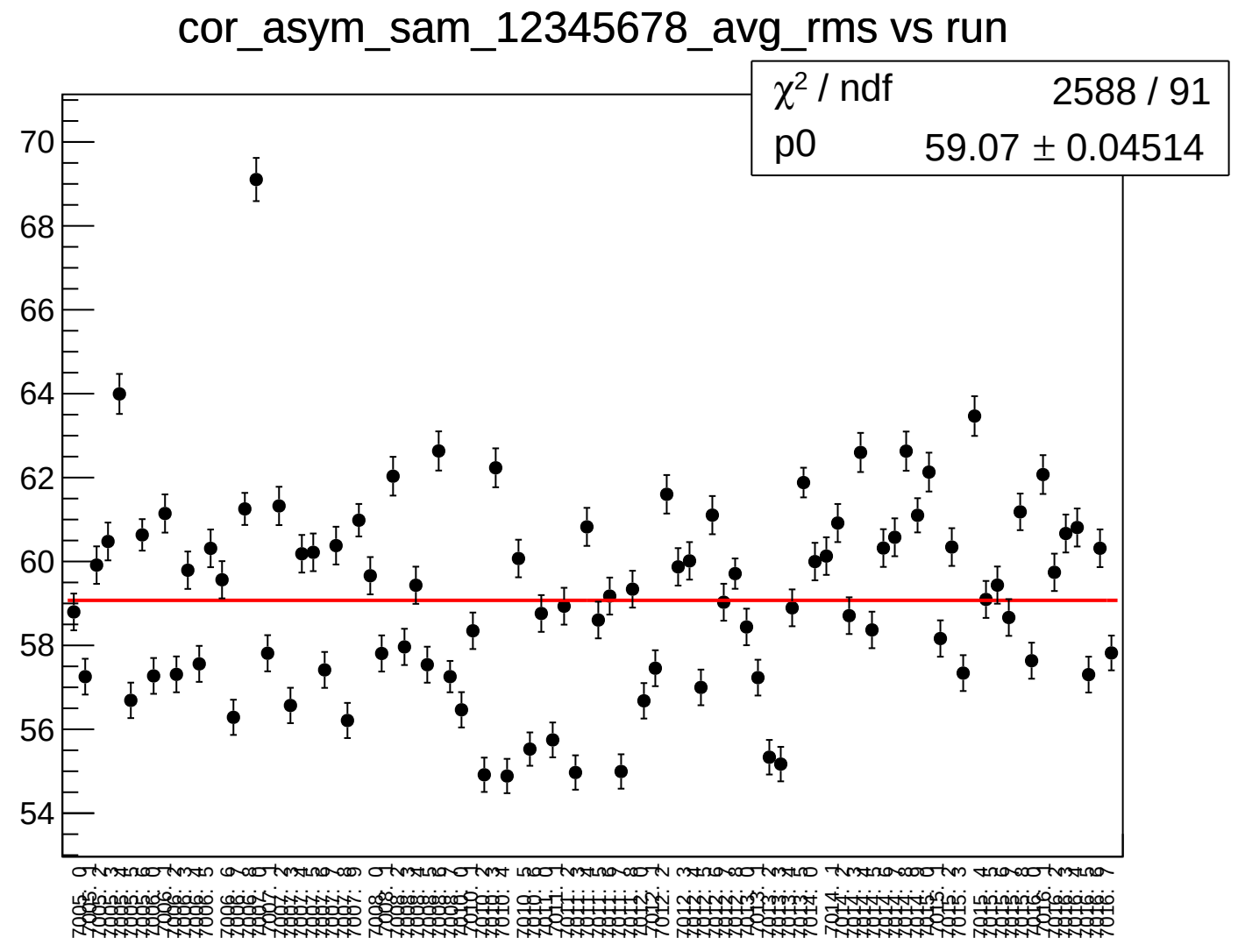

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 81.83 / 91
p0 −661.5 ± 652.7
pull
Entries 92
Mean 1.96
Std Dev 68.63

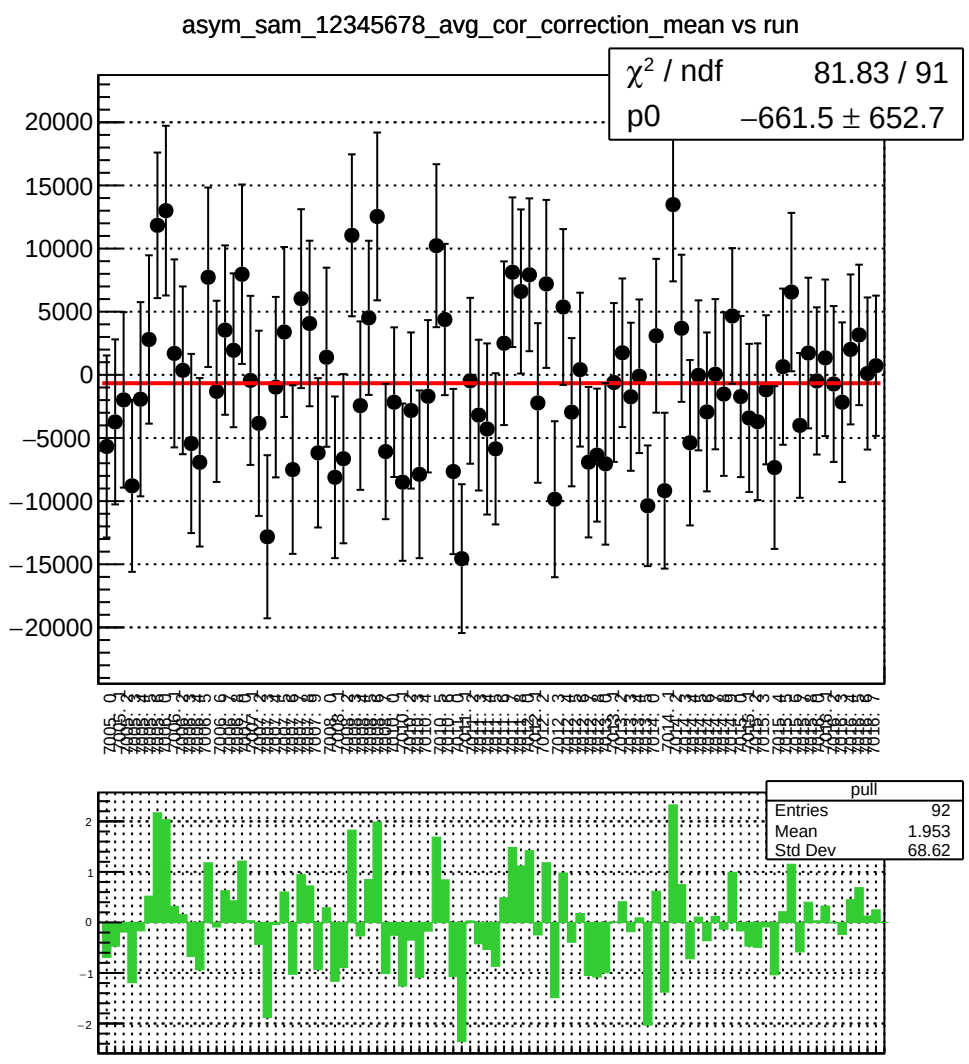

pull1D
Entries 92
Mean 0.008353
Std Dev 0.9431

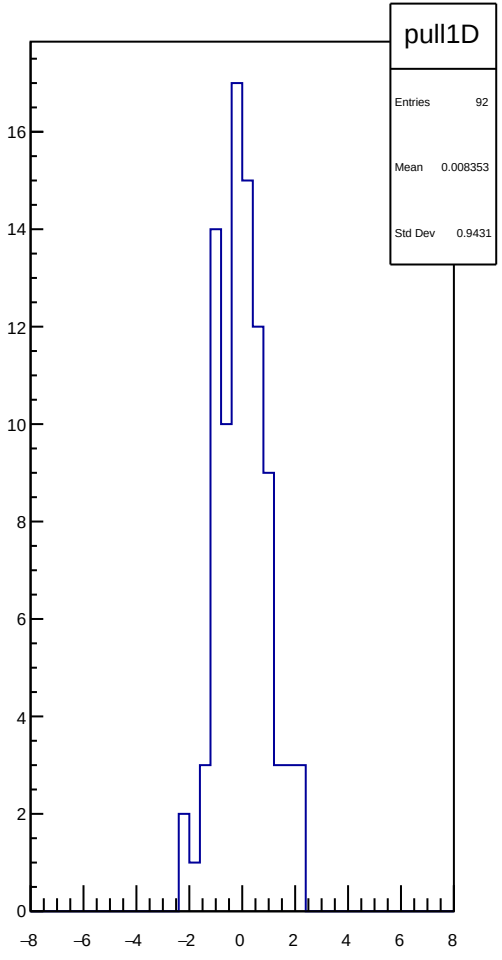

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 7718 / 91
p0 603.1 ± 0.4615
750
700
650
600
550

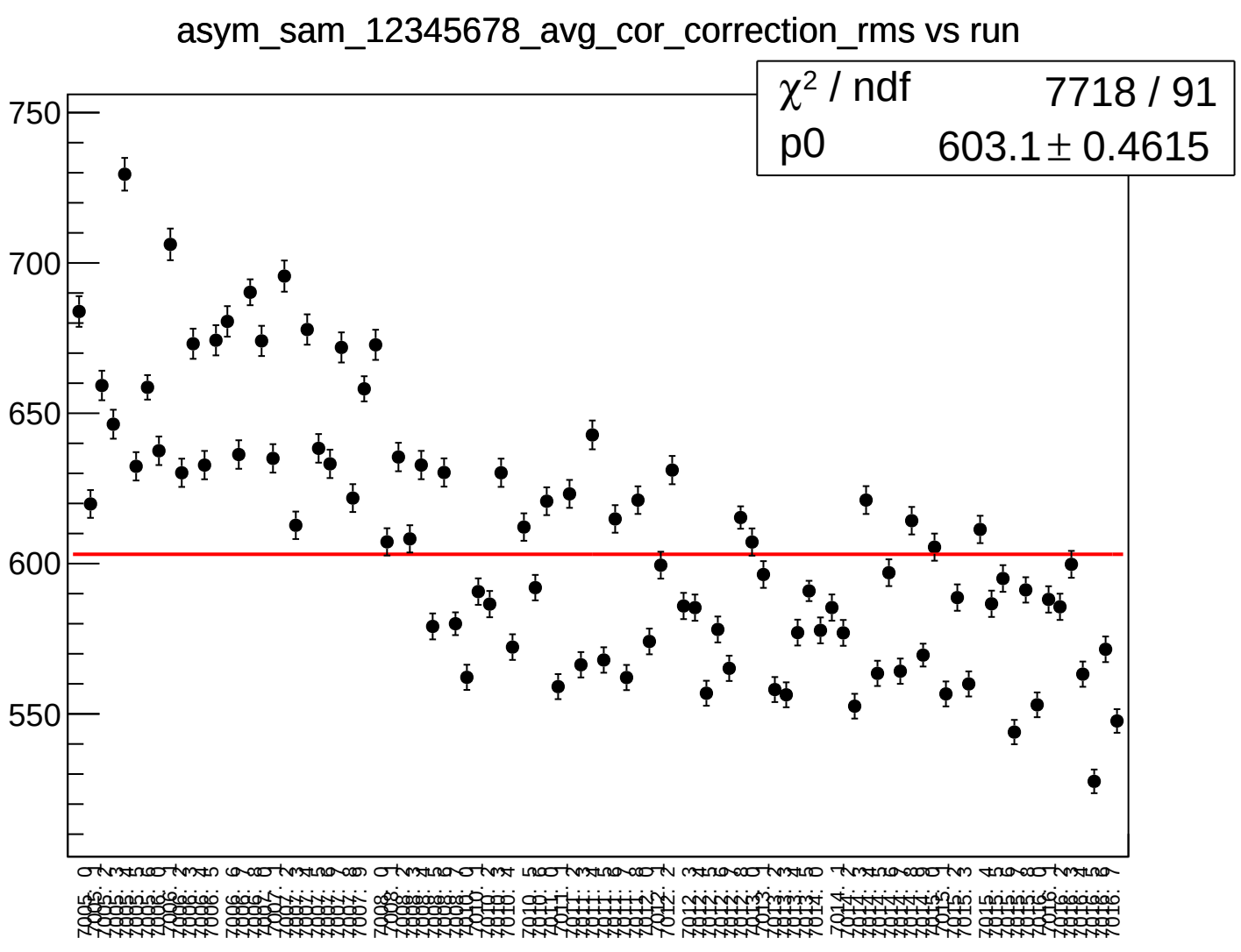

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 77.41 / 91
p0 −41.74 ± 63.84
pull
Entries 92
Mean 175.4
Std Dev 0

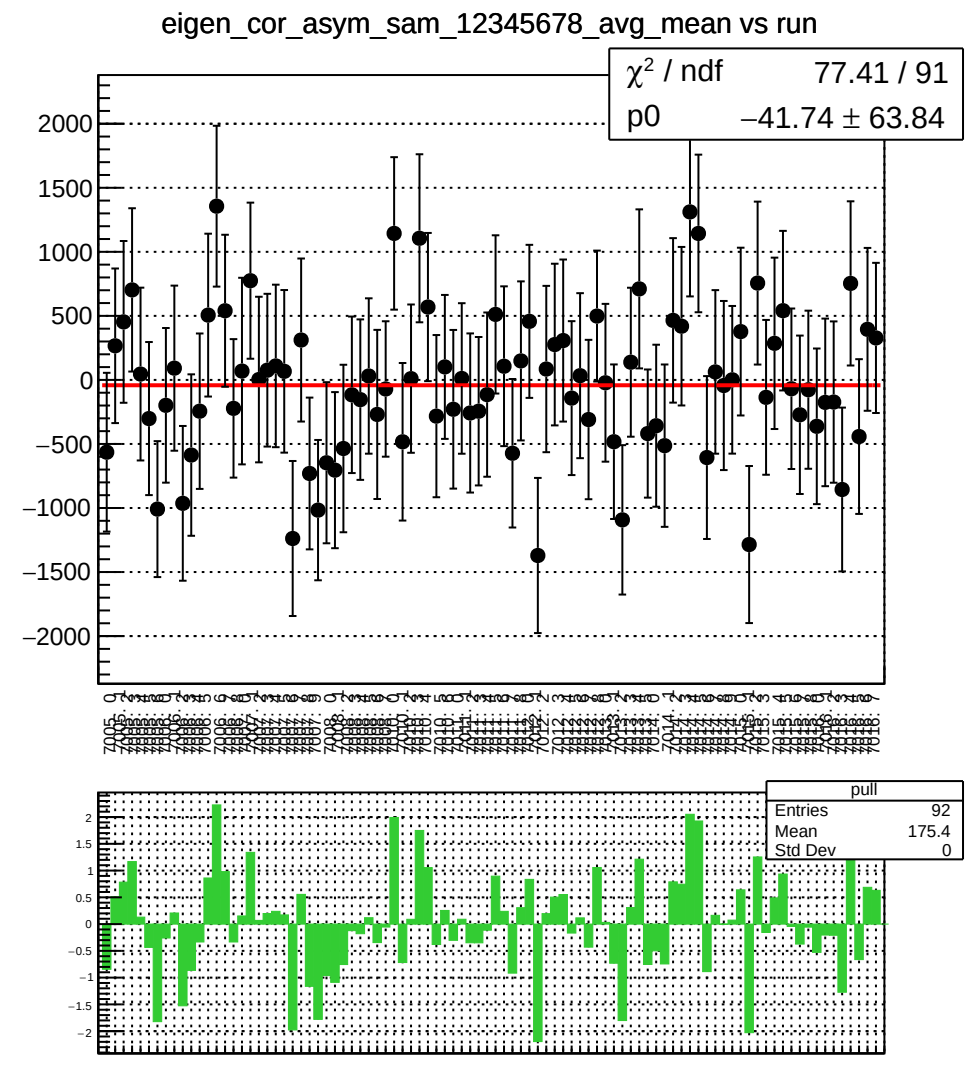

pull1D
Entries 92
Mean 0.01194
Std Dev 0.9172

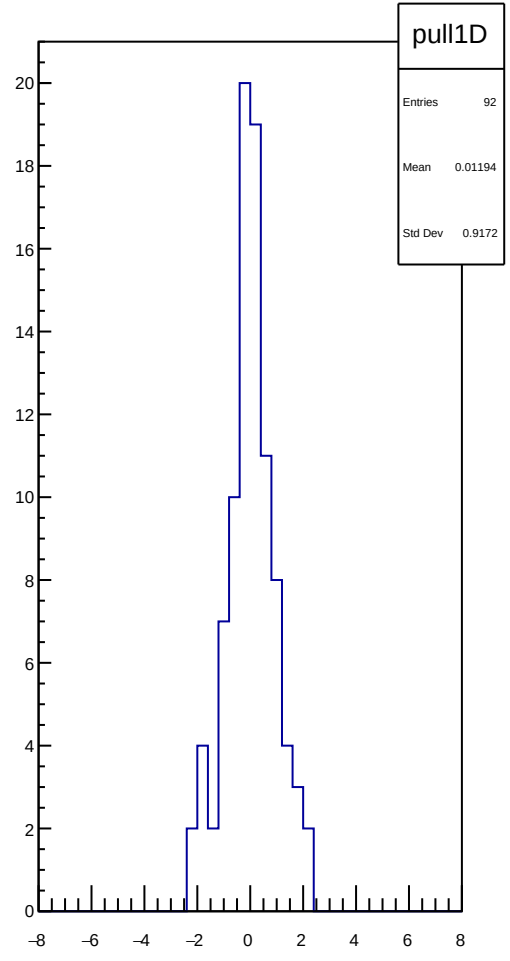

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2588 / 91
p0 59.07 ± 0.04514
70
68
66
64
62
60
58
56
54

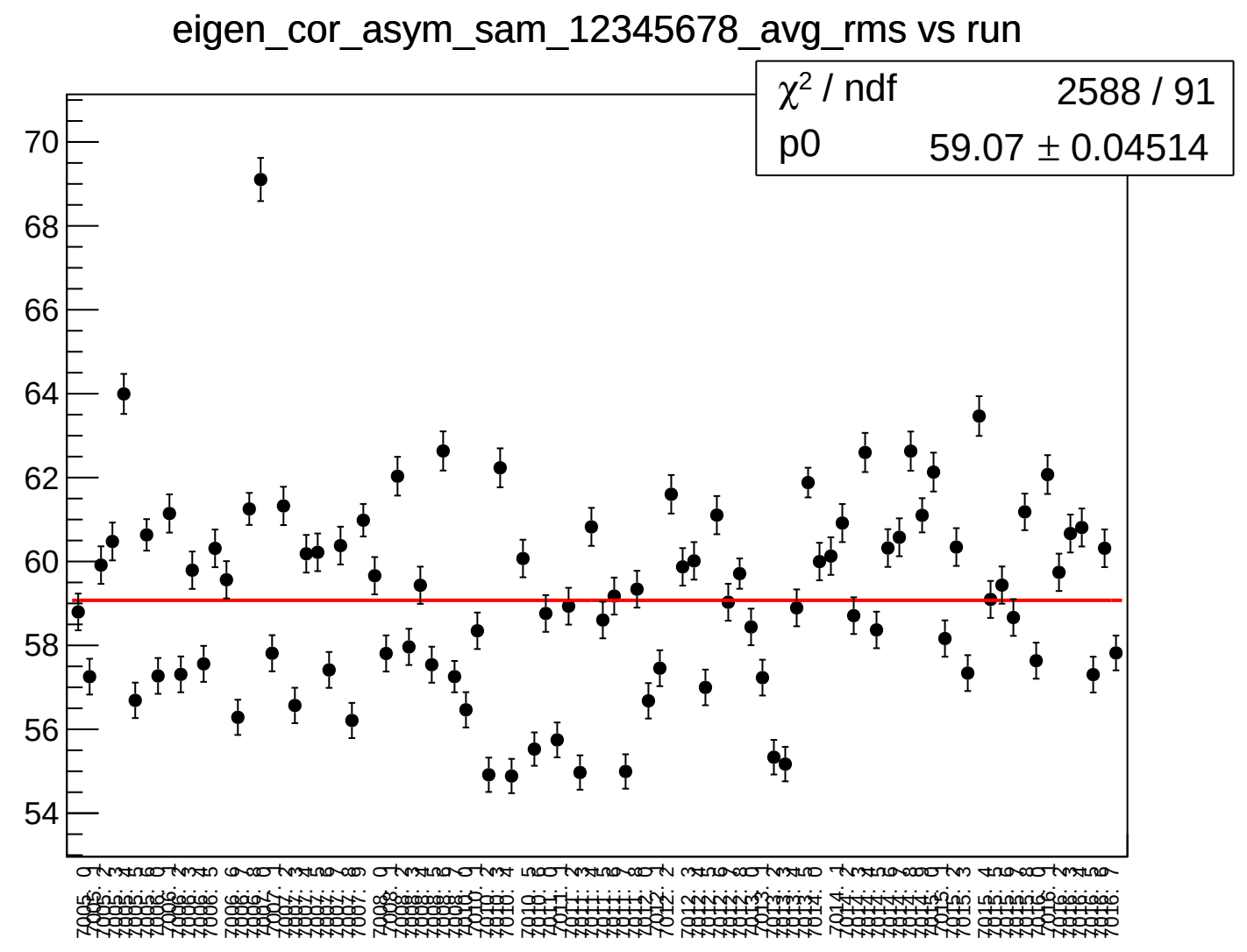

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 81.83 / 91
p0 −661.5 ± 652.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 1.953
Std Dev 68.62
2
1
0
−1
−2

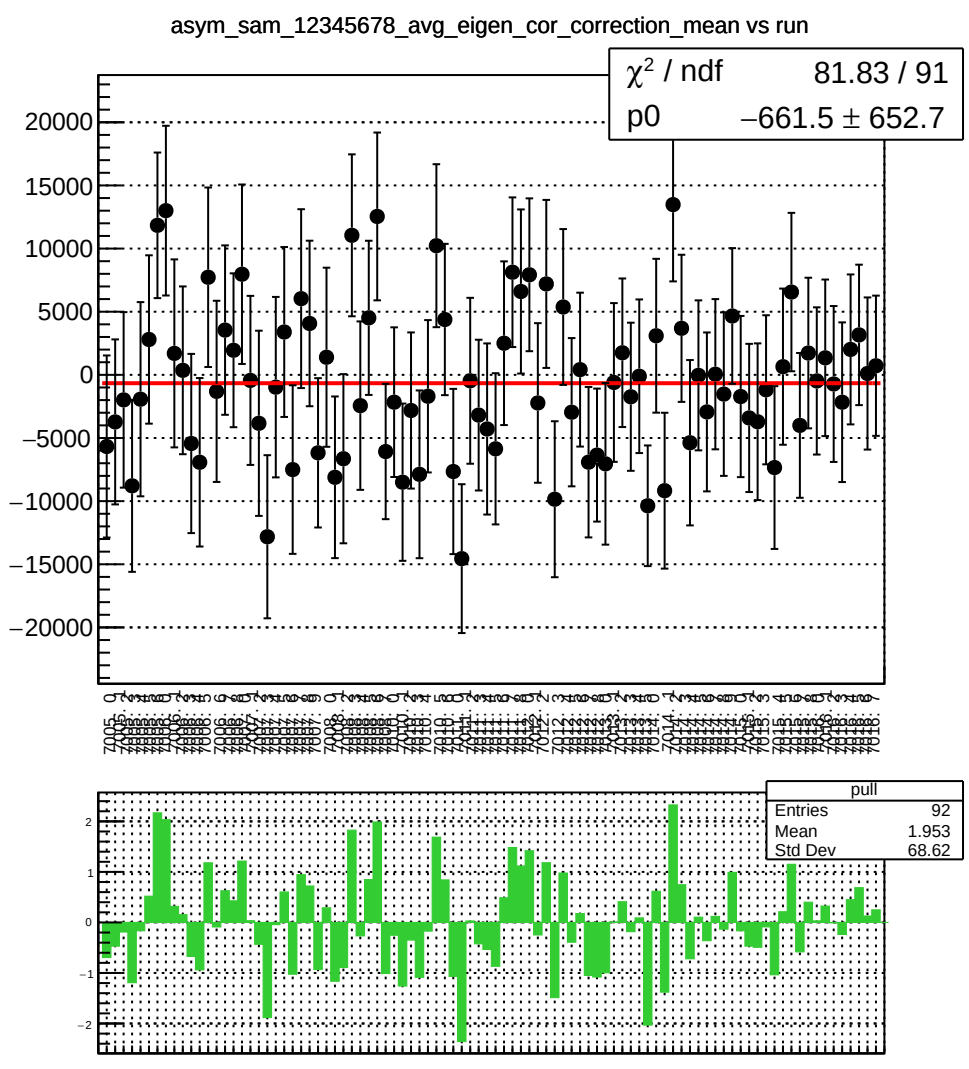

pull1D
Entries 92
Mean 0.008353
Std Dev 0.9431
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

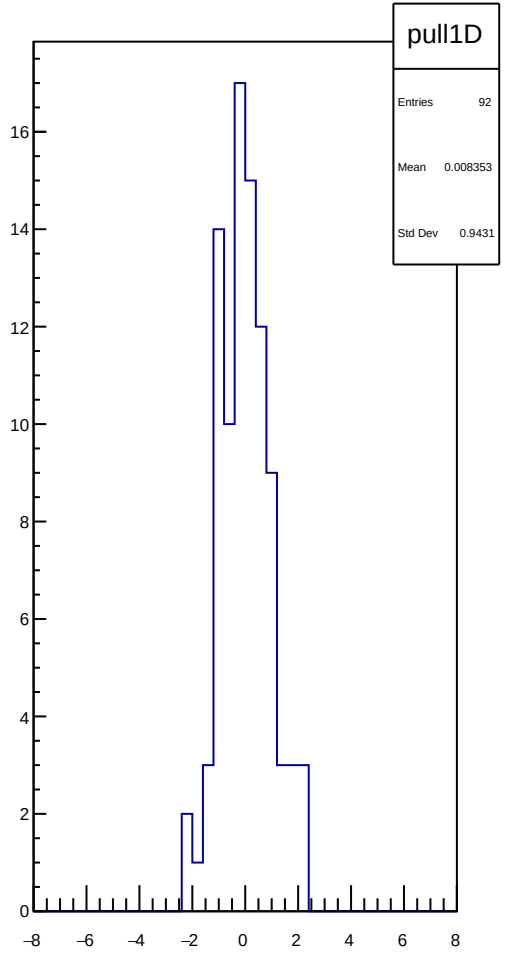

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 7718 / 91
p0 603.1 ± 0.4615
750
700
650
600
550

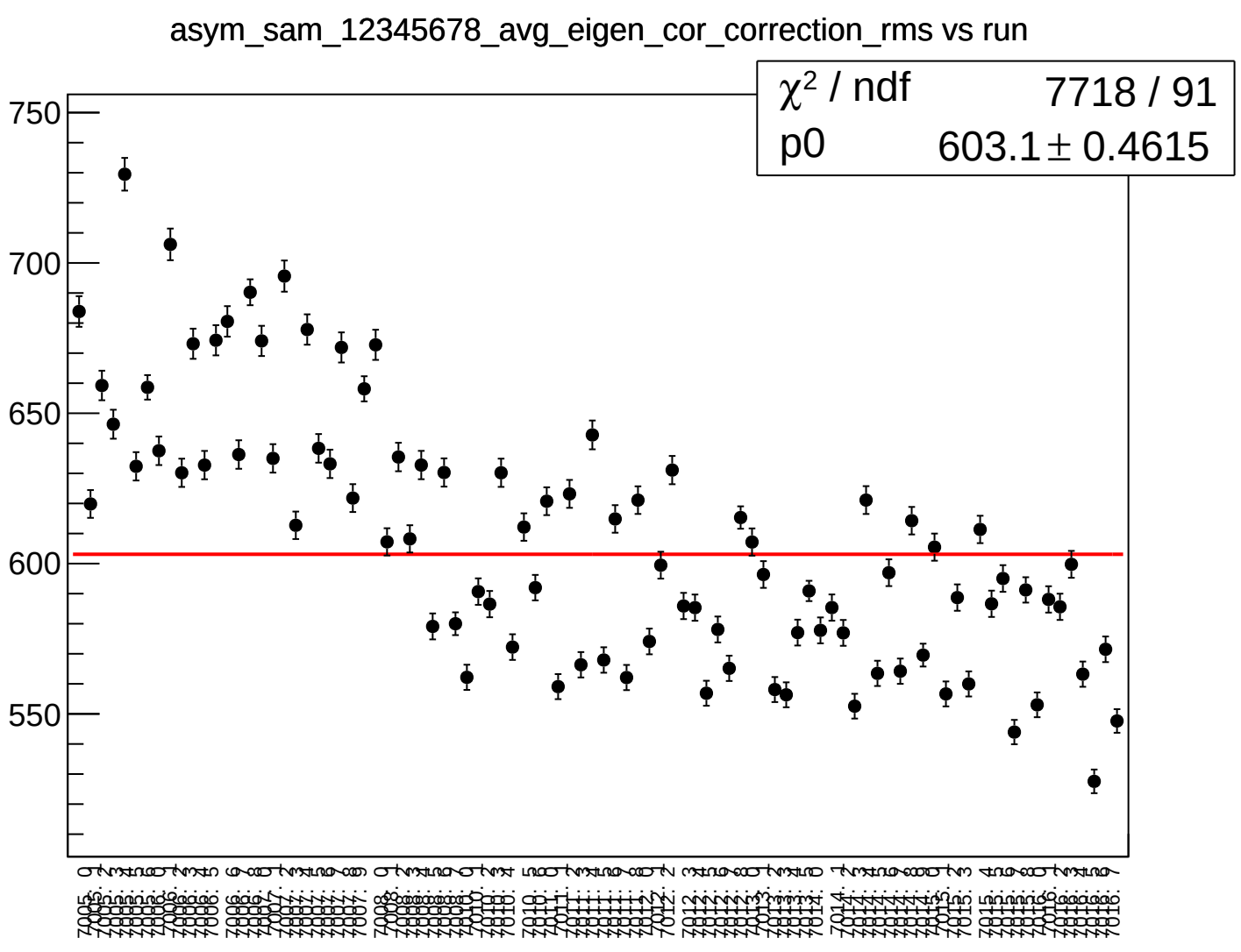

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 77.41 / 91
p0 −41.74 ± 63.84
pull
Entries 92
Mean 175.4
Std Dev 0

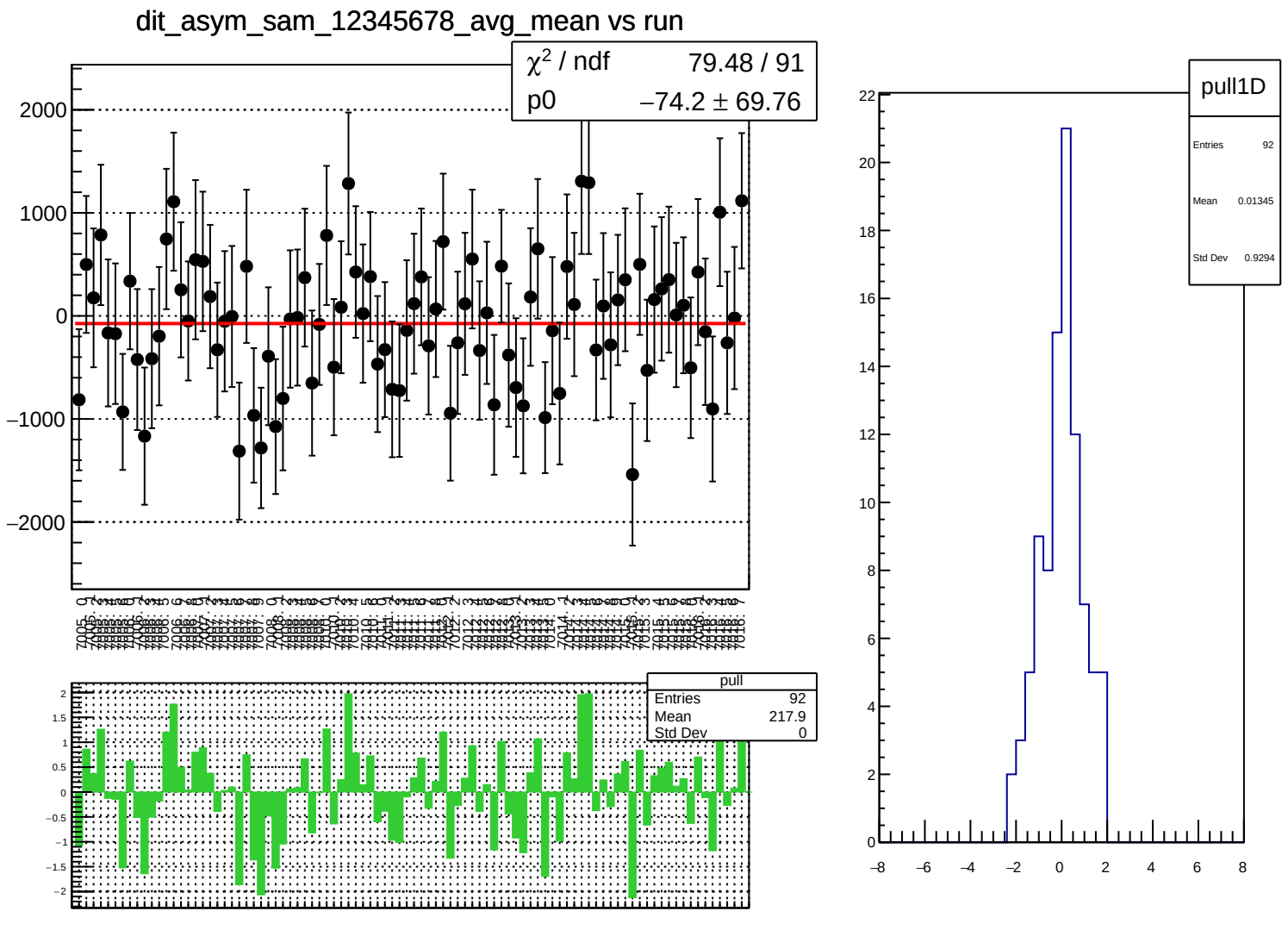

pull1D
Entries 92
Mean 0.01194
Std Dev 0.9172

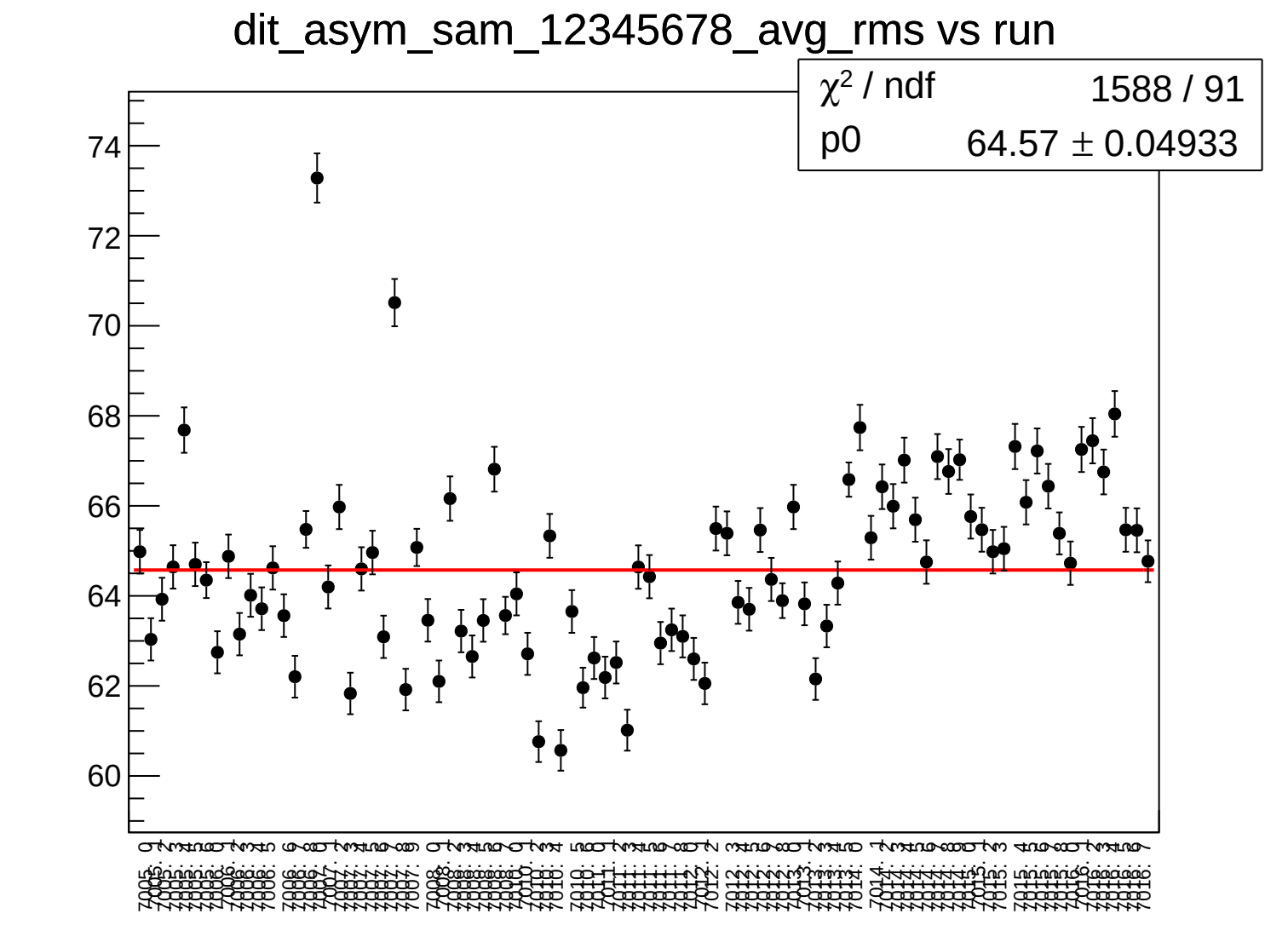

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 2588 / 91
p0 59.07 ± 0.04514
70
68
66
64
62
60
58
56
54

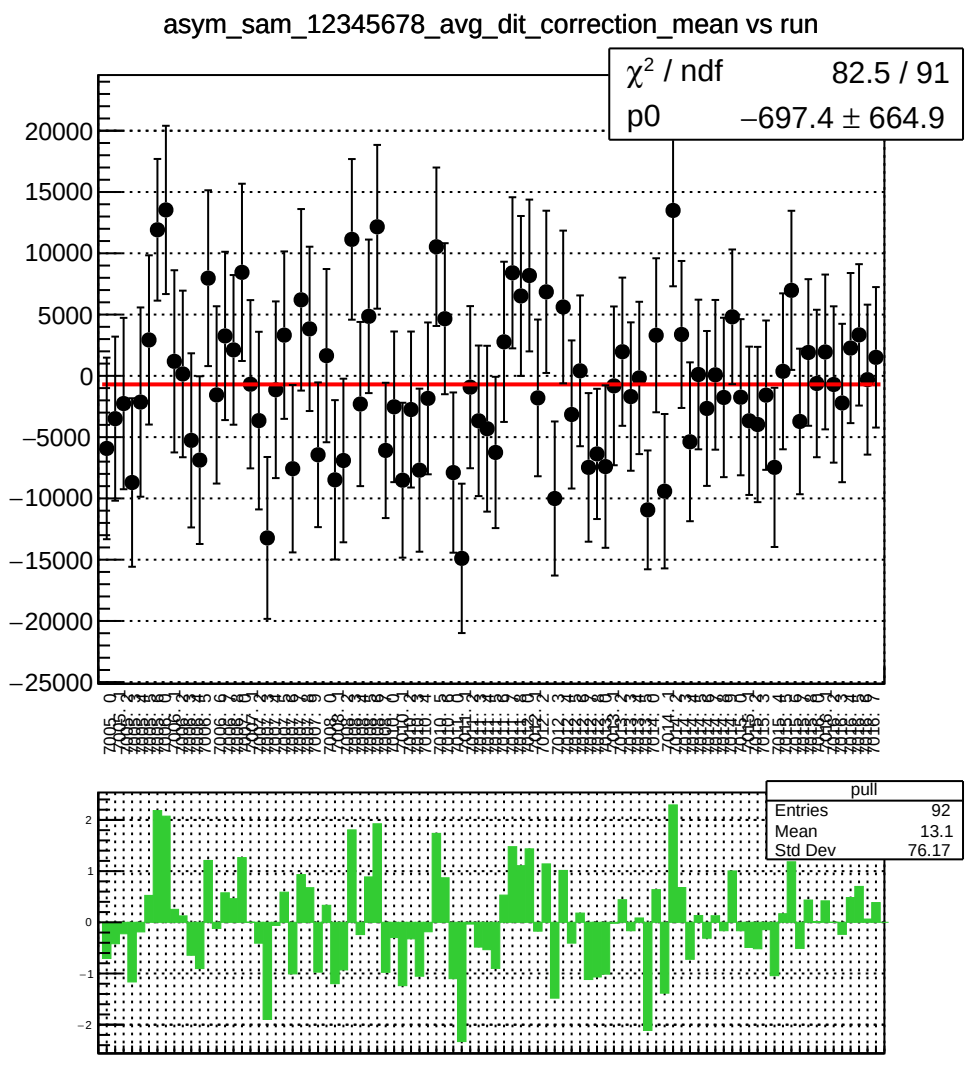

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 81.83 / 91
p0 −661.5 ± 652.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 92
Mean 1.953
Std Dev 68.62
2
1
0
−1
−2

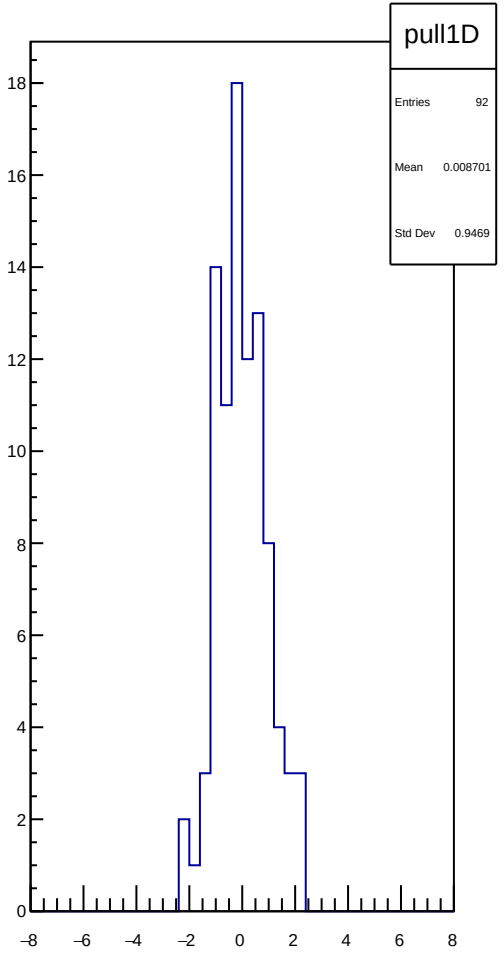

pull1D
Entries 92
Mean 0.008353
Std Dev 0.9431
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

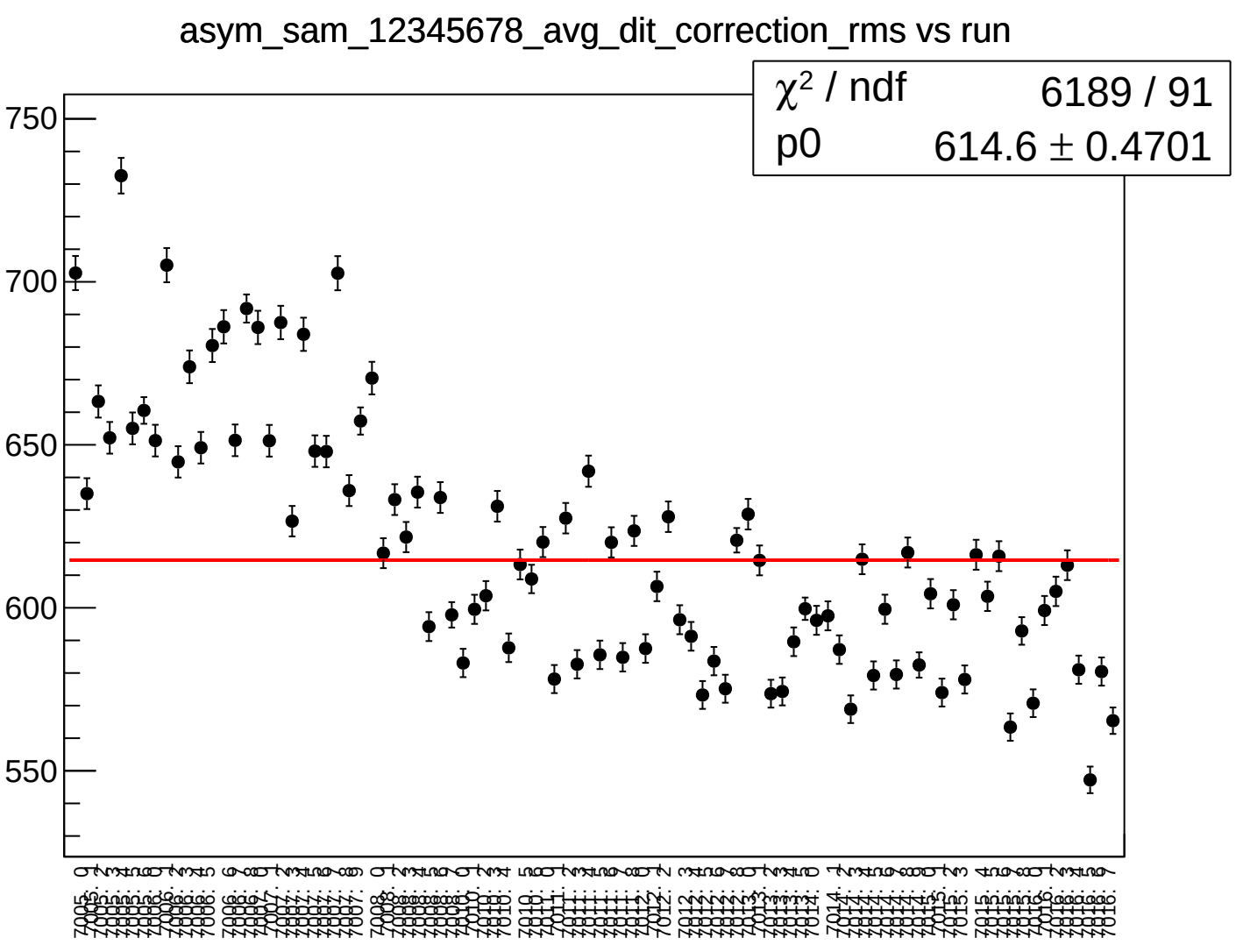

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 7718 / 91
p0 603.1 ± 0.4615
750
700
650
600
550

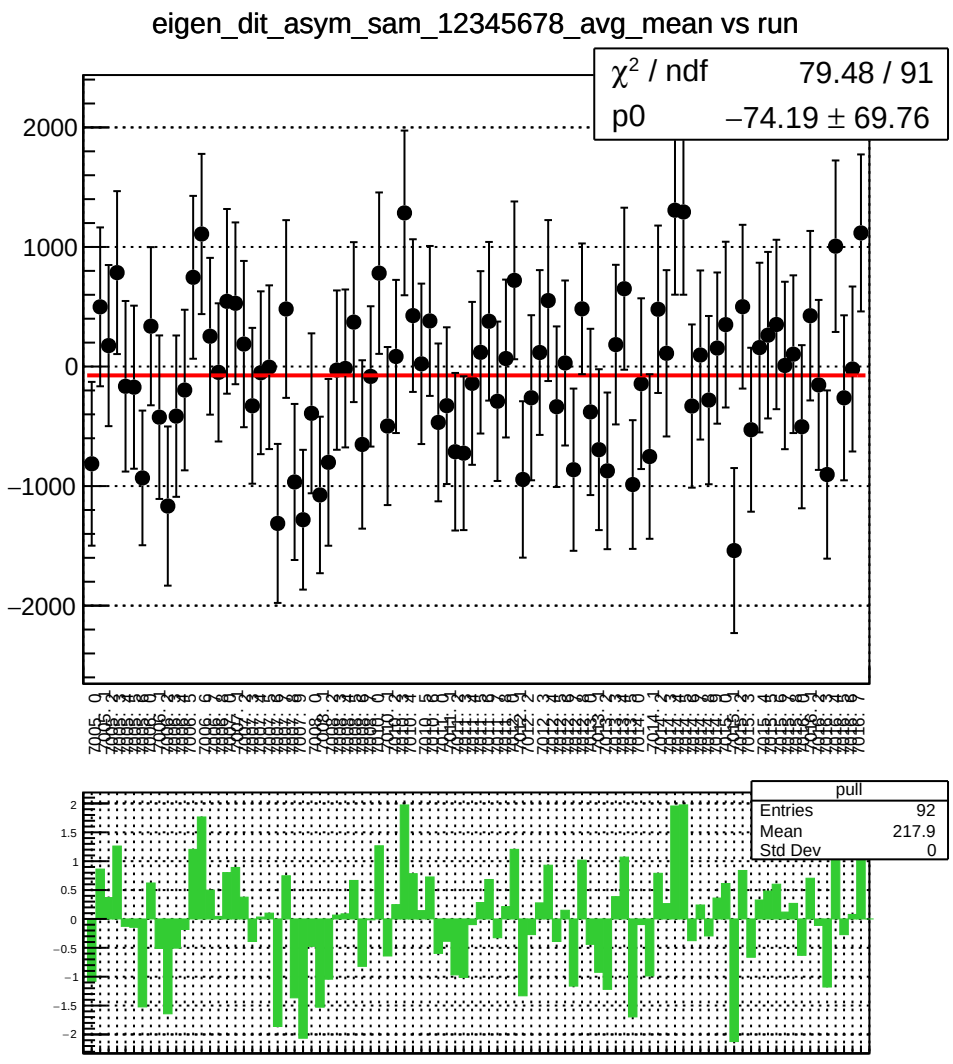

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.48 / 91
p0 −74.2 ± 69.76
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 217.9
Std Dev 0
pull1D
Entries 92
Mean 0.01345
Std Dev 0.9294
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

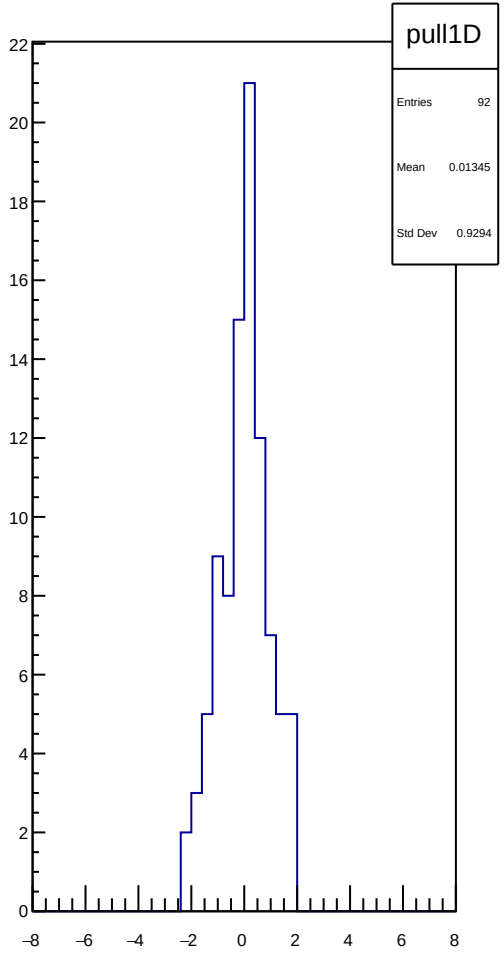

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1588 / 91
p0 64.57 ± 0.04933
74
72
70
68
66
64
62
60

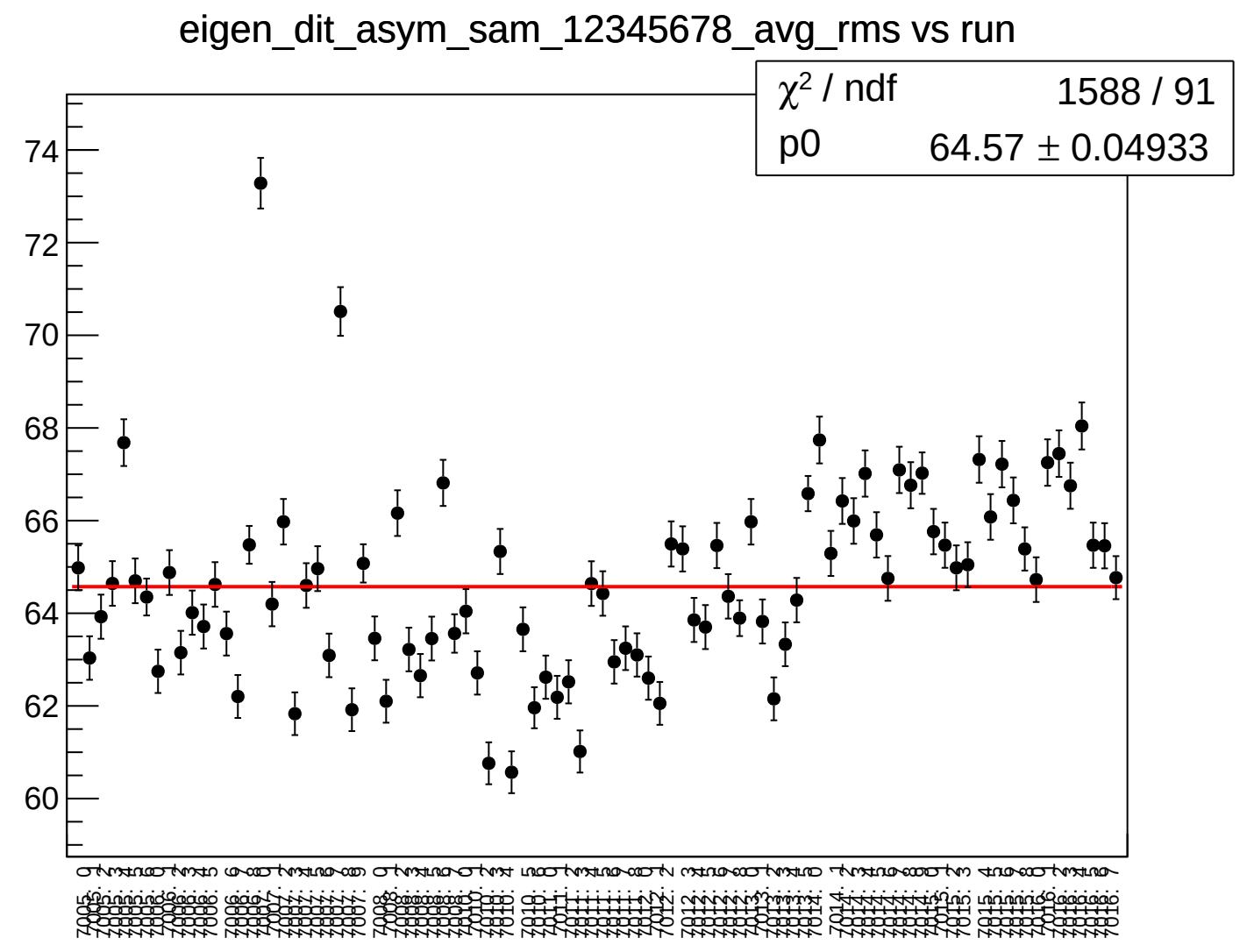

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 82.5 / 91
p0 −697.4 ± 664.9
pull
Entries 92
Mean 13.1
Std Dev 76.17

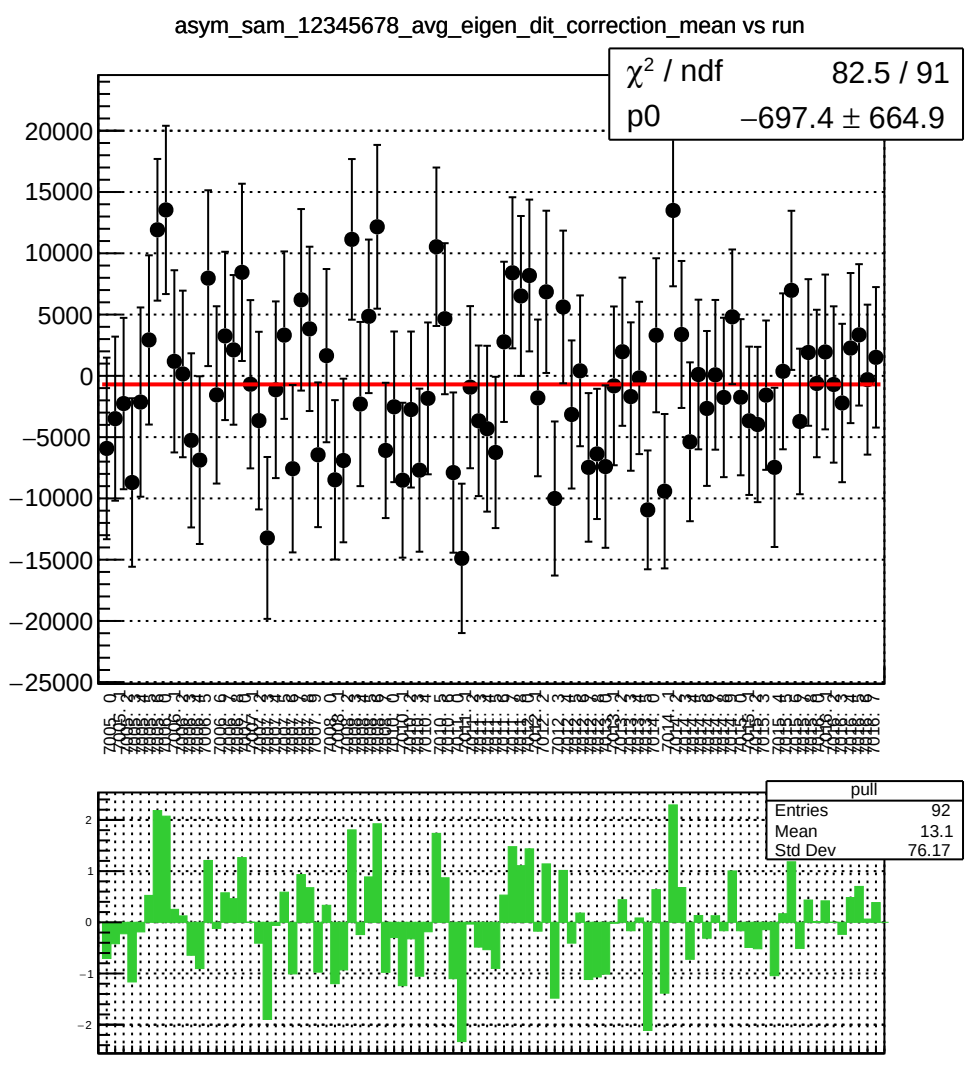

pull1D
Entries 92
Mean 0.008701
Std Dev 0.9469

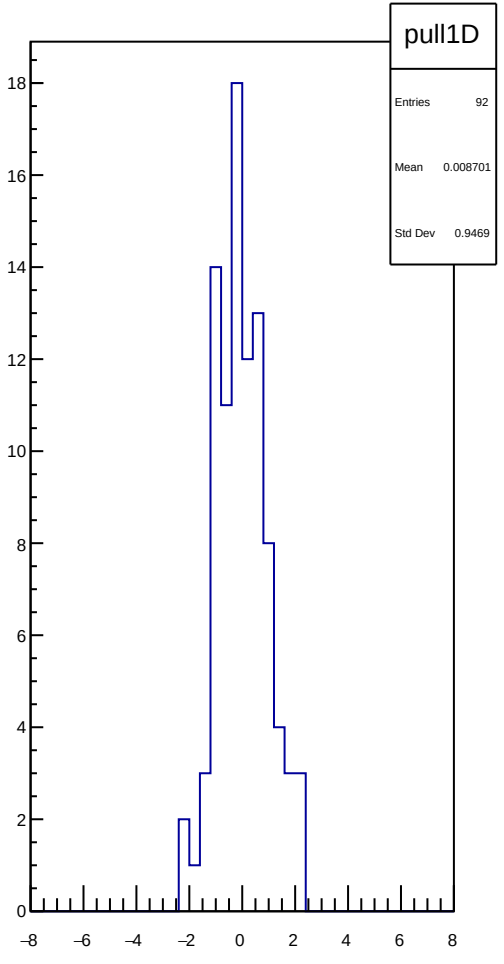

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 6189 / 91
p0 614.6 ± 0.4701
750
700
650
600
550

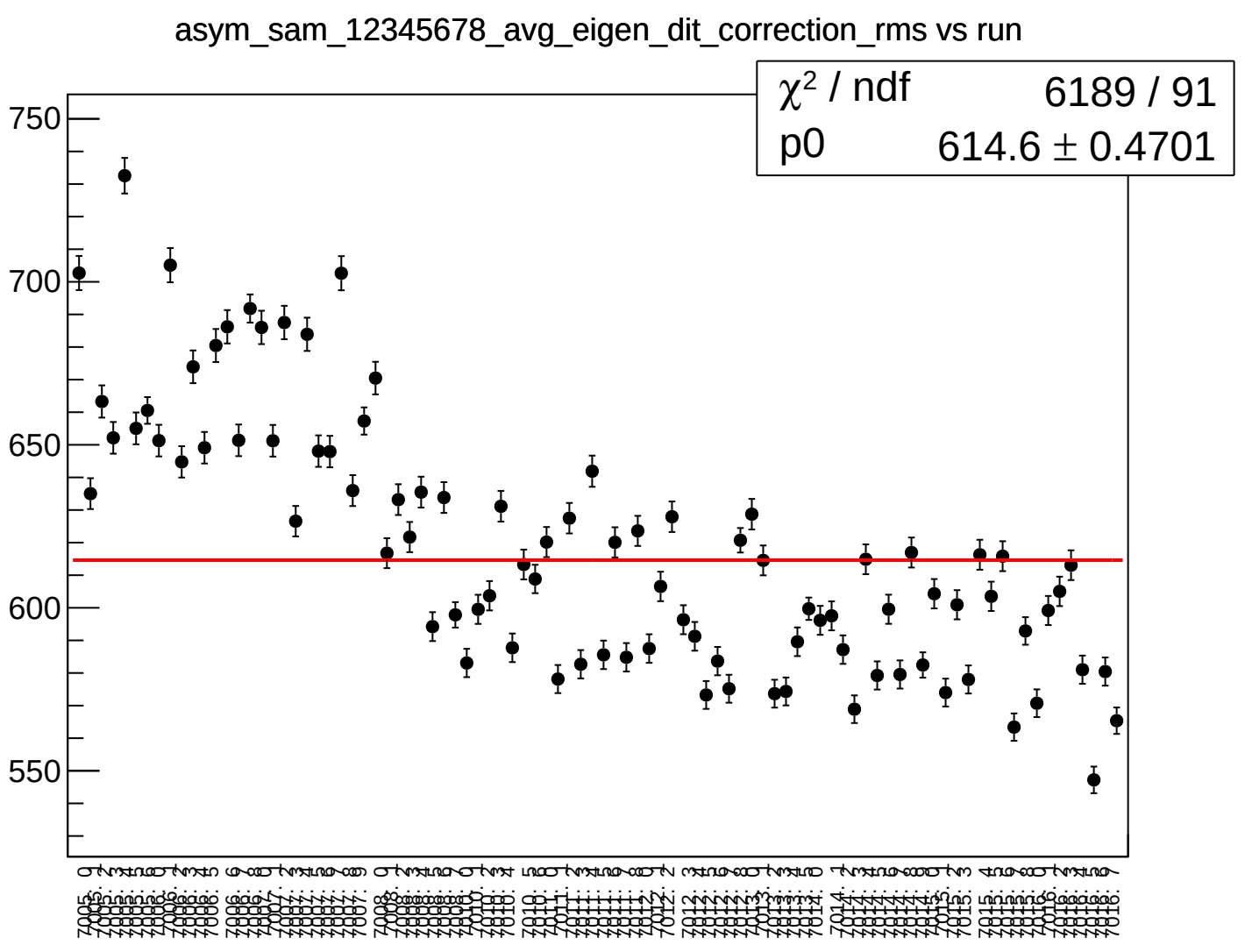

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 79.48 / 91
p0 −74.19 ± 69.76
2000
1000
0
−1000
−2000
pull
Entries 92
Mean 217.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

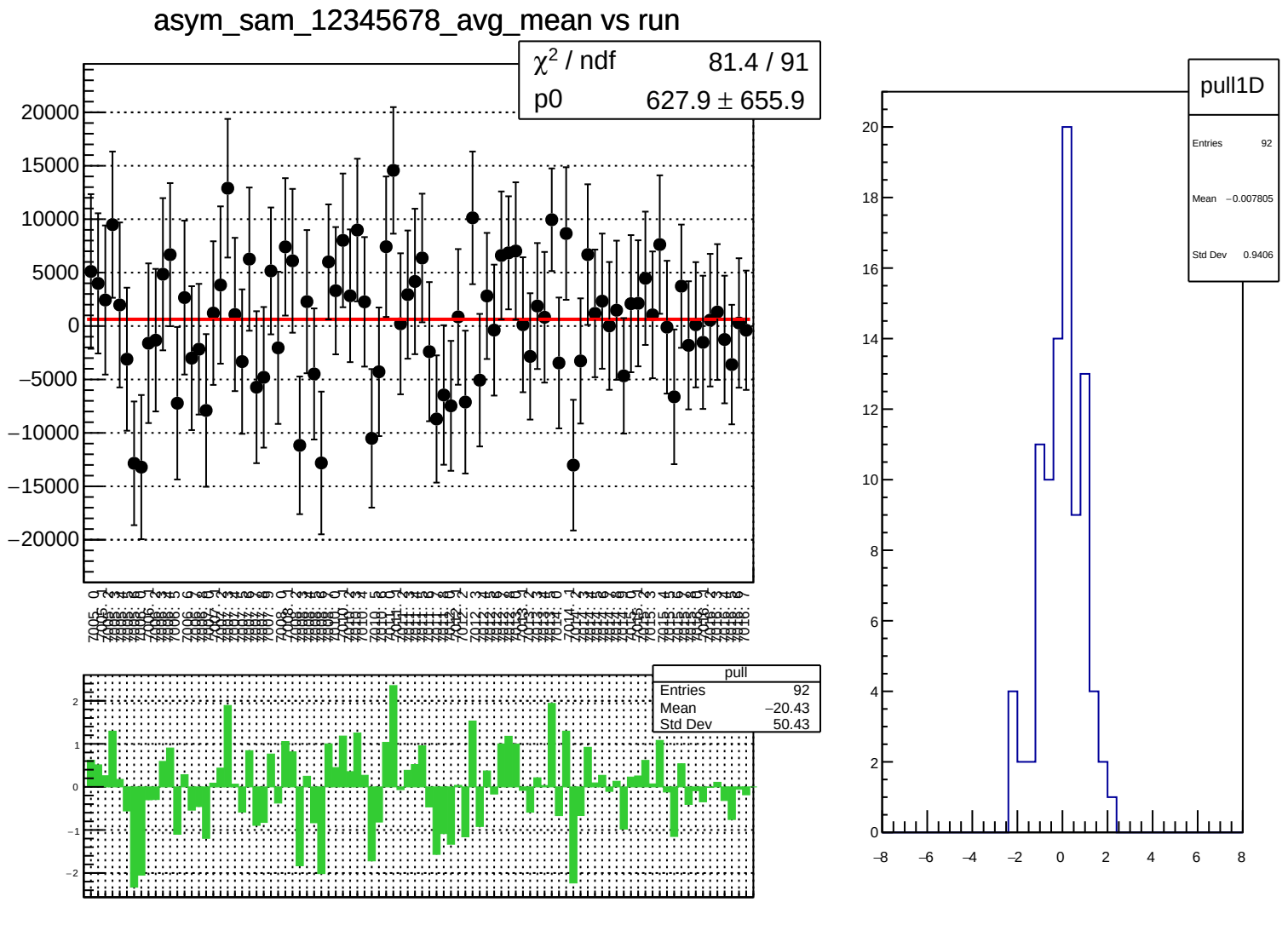

pull1D
Entries 92
Mean 0.01345
Std Dev 0.9294
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

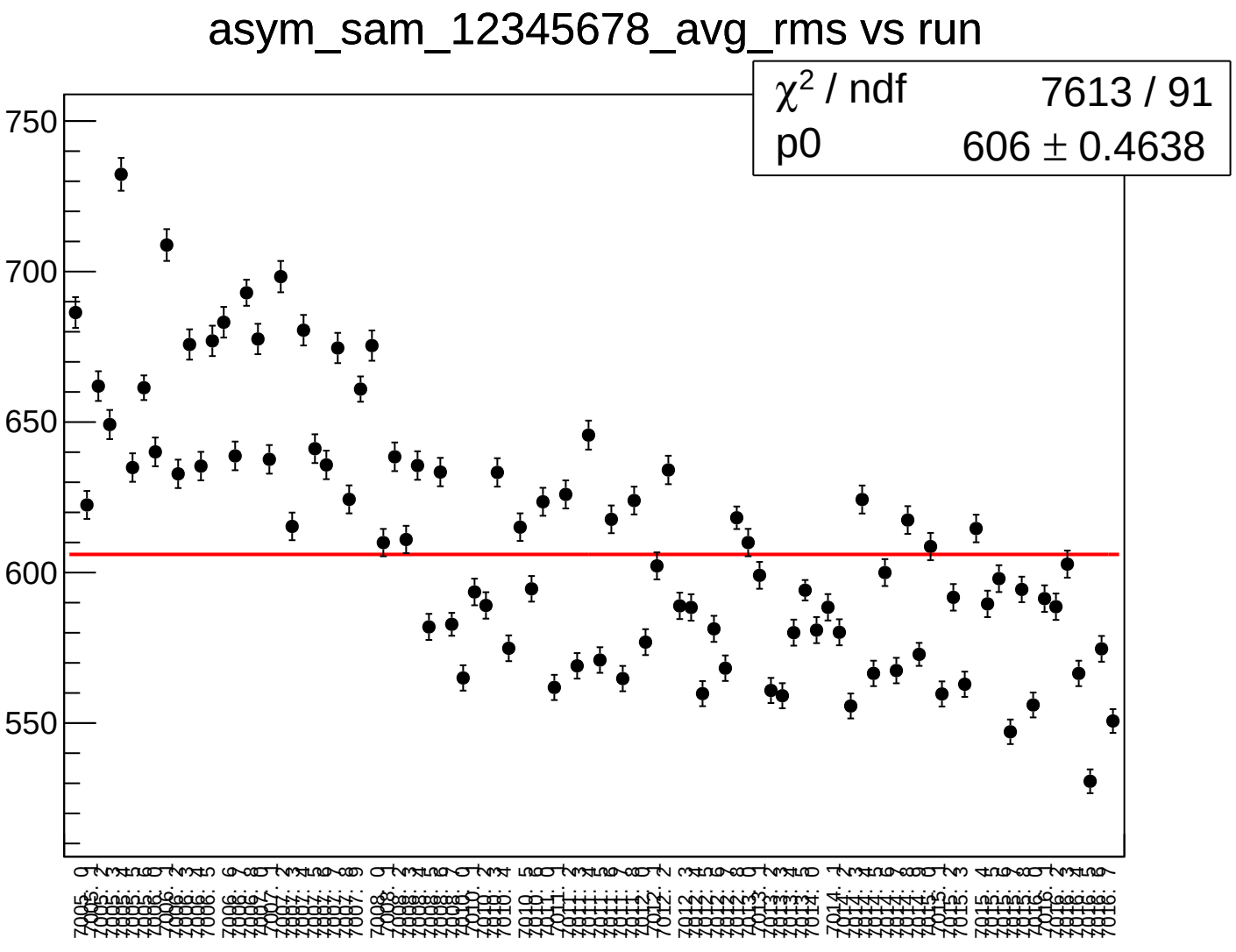

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1588 / 91
p0 64.57 ± 0.04933
74
72
70
68
66
64
62
60

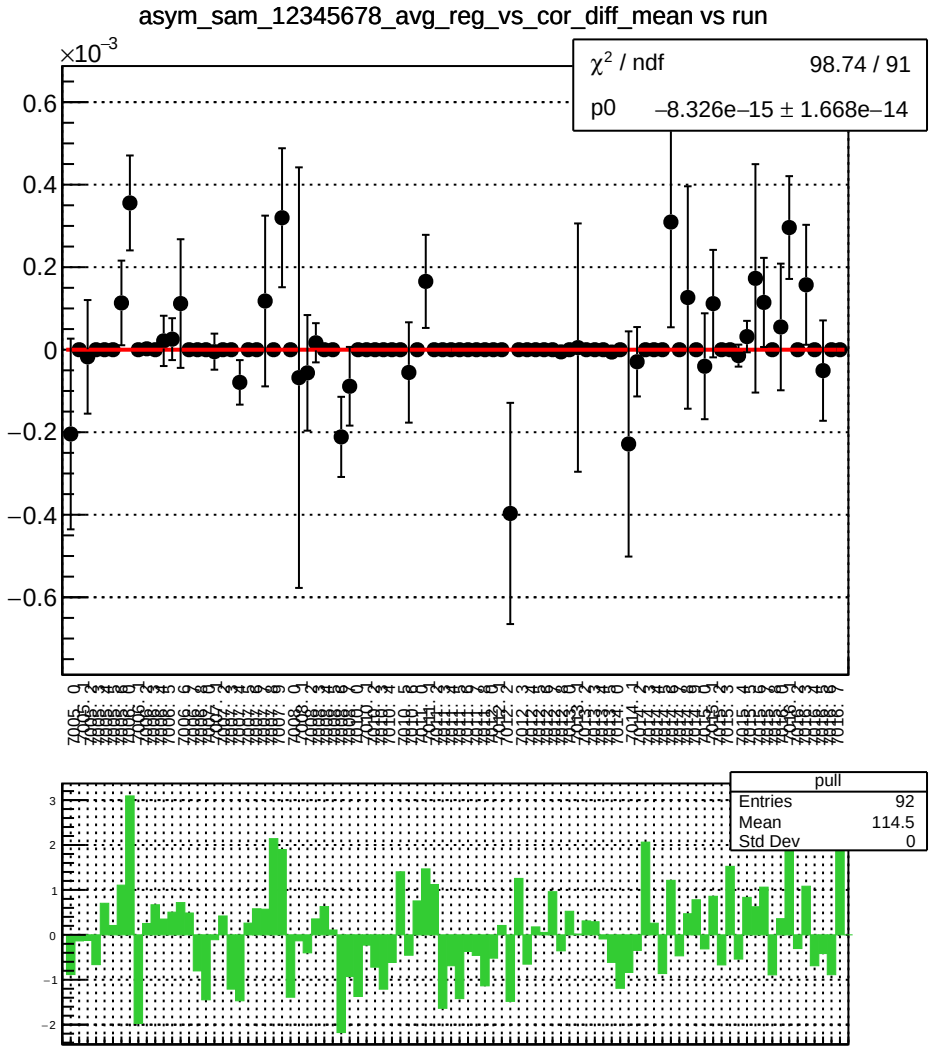

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.5 / 91
p0 −697.4 ± 664.9
pull
Entries 92
Mean 13.1
Std Dev 76.17

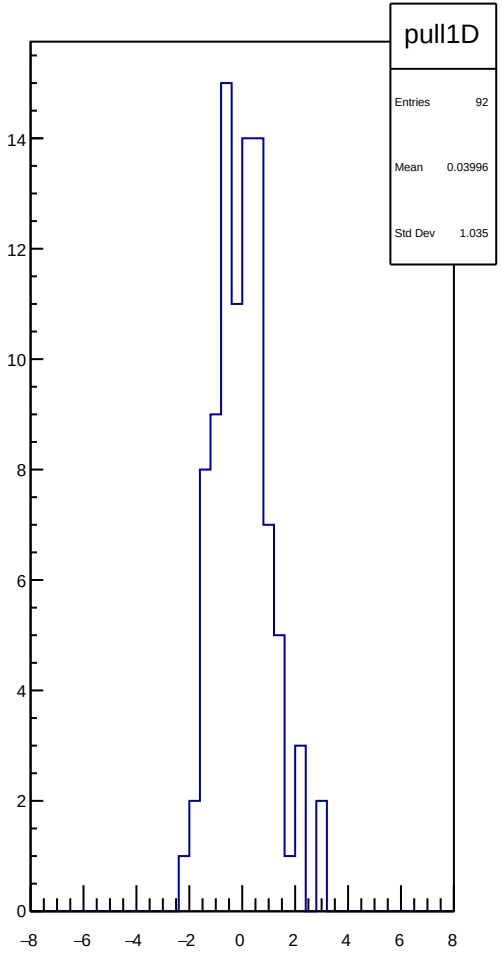

pull1D
Entries 92
Mean 0.008701
Std Dev 0.9469

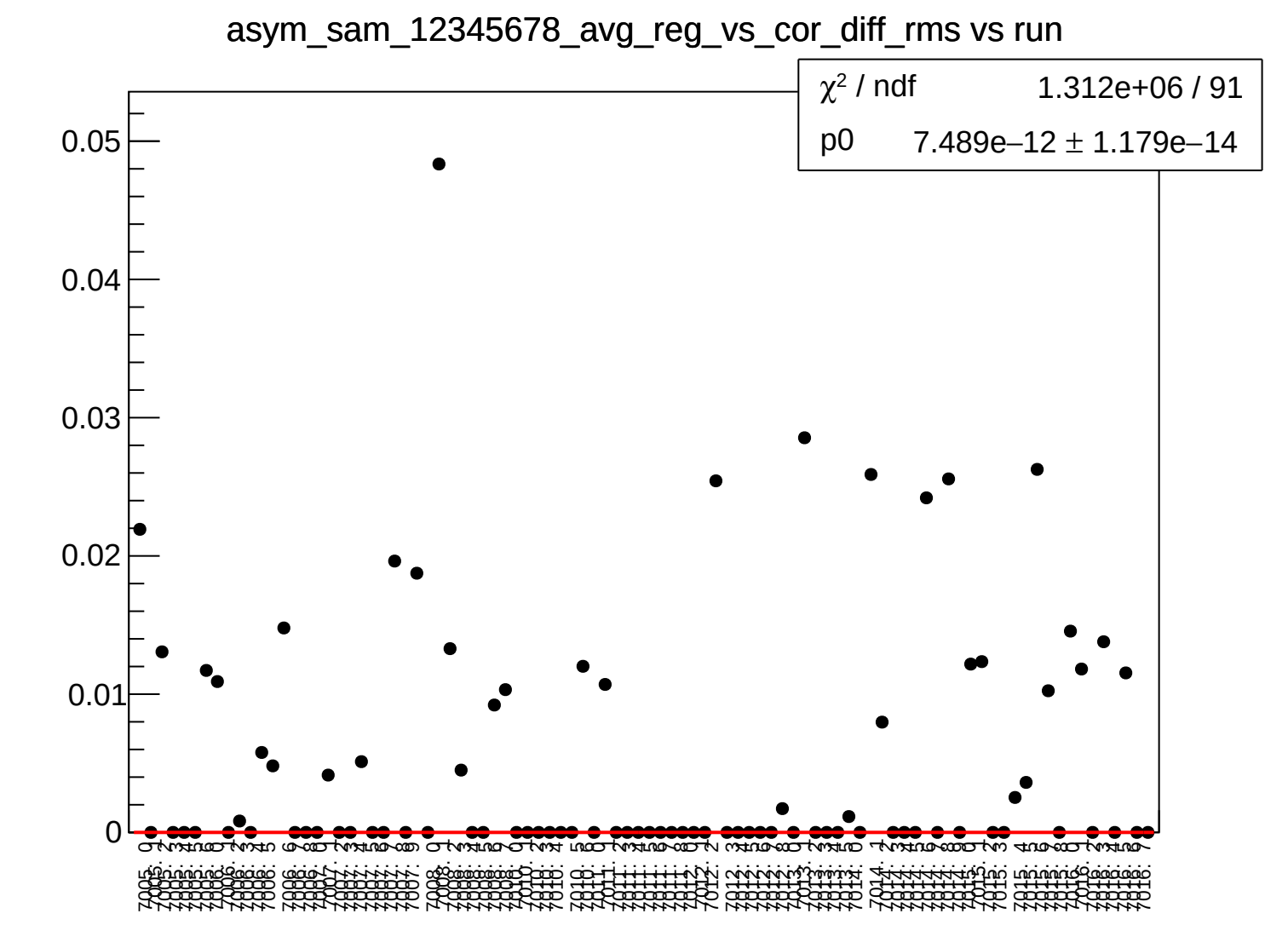

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 6189 / 91
p0 614.6 ± 0.4701
750
700
650
600
550

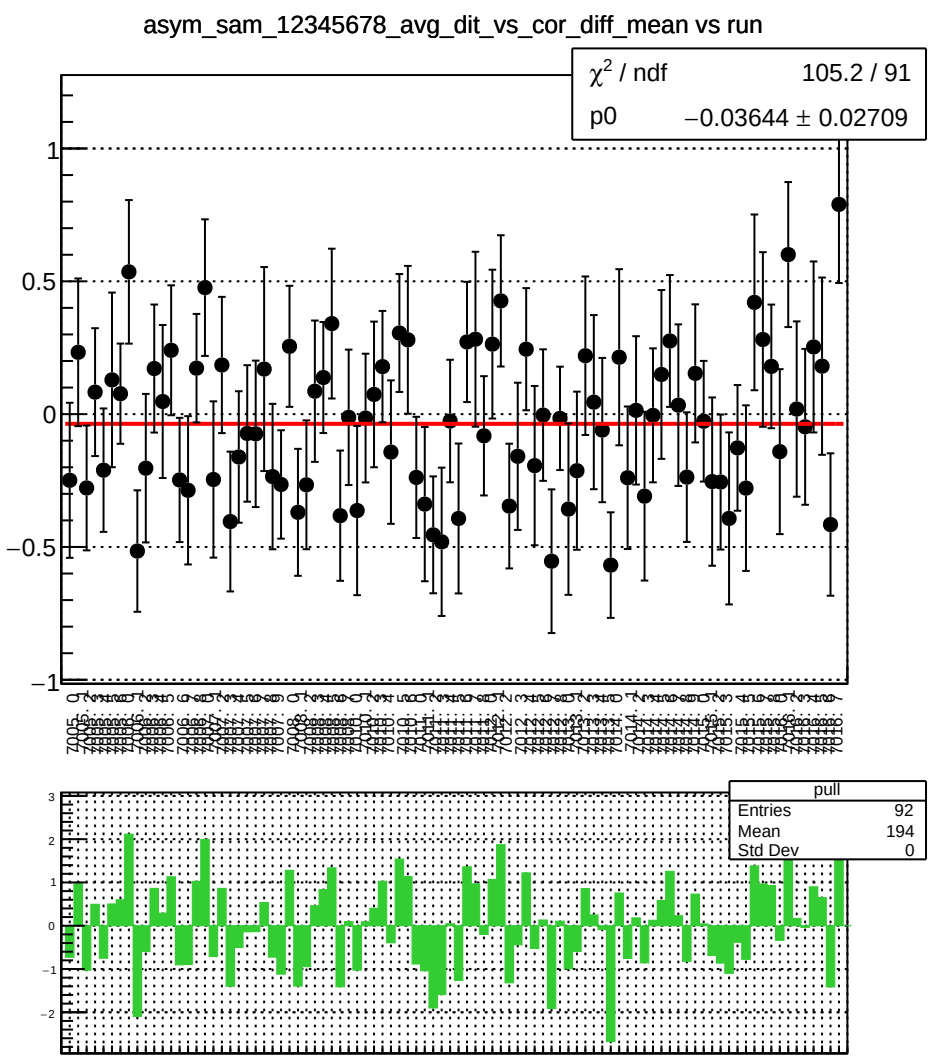

asym_sam_12345678_avg_mean vs run
χ² / ndf 81.4 / 91
p0 627.9 ± 655.9
pull
Entries 92
Mean −20.43
Std Dev 50.43
pull1D
Entries 92
Mean −0.007805
Std Dev 0.9406

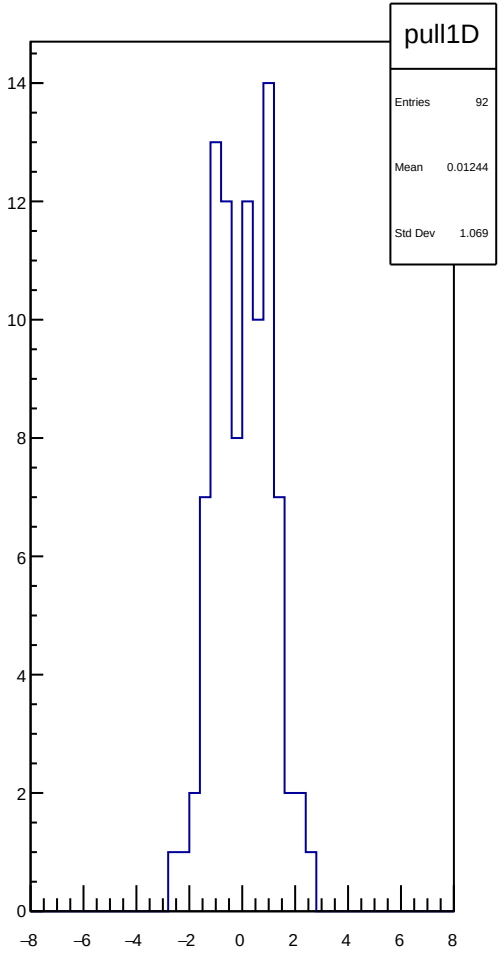

asym_sam_12345678_avg_rms vs run
χ² / ndf 7613 / 91
p0 606 ± 0.4638
750
700
650
600
550

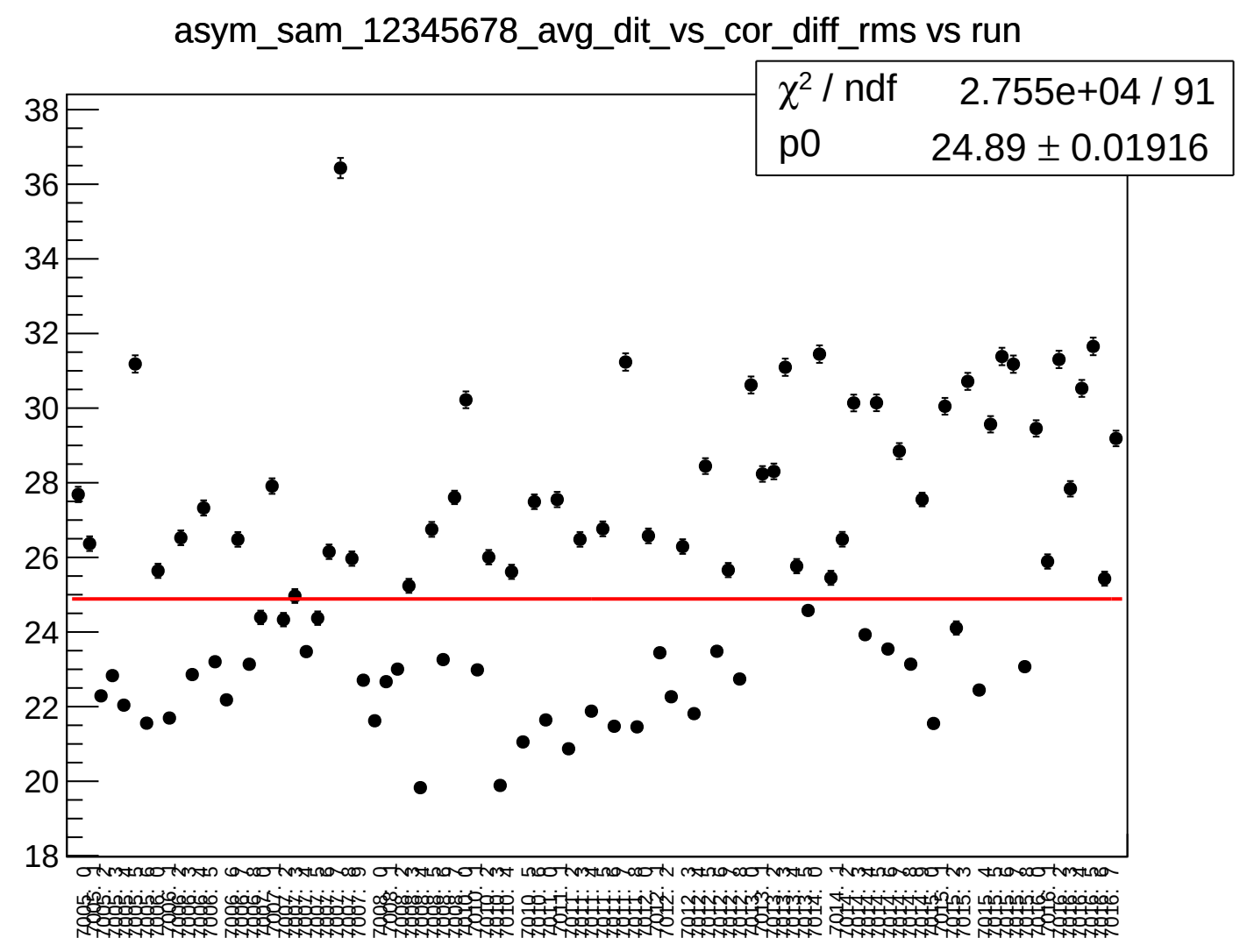

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 98.74 / 91
p0 −8.326e−15 ± 1.668e−14
pull
Entries 92
Mean 114.5
Std Dev 0

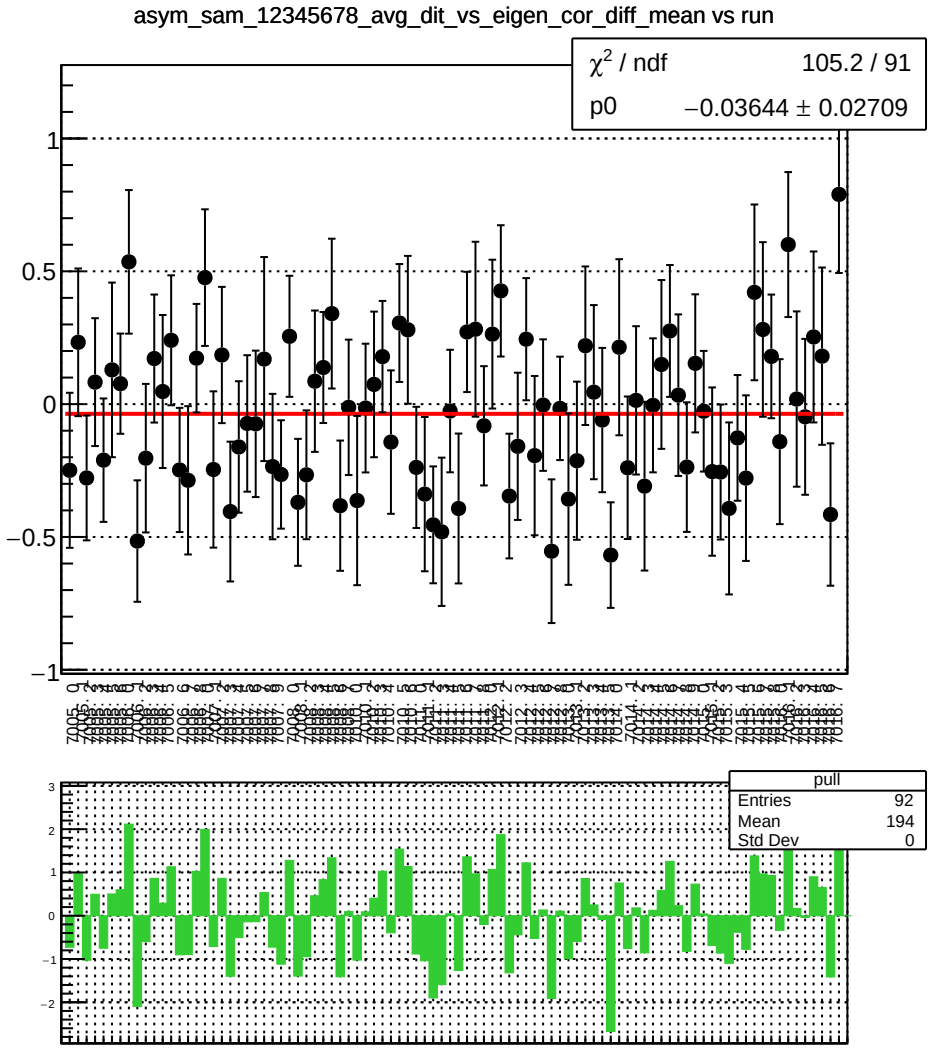

pull1D
Entries 92
Mean 0.03996
Std Dev 1.035

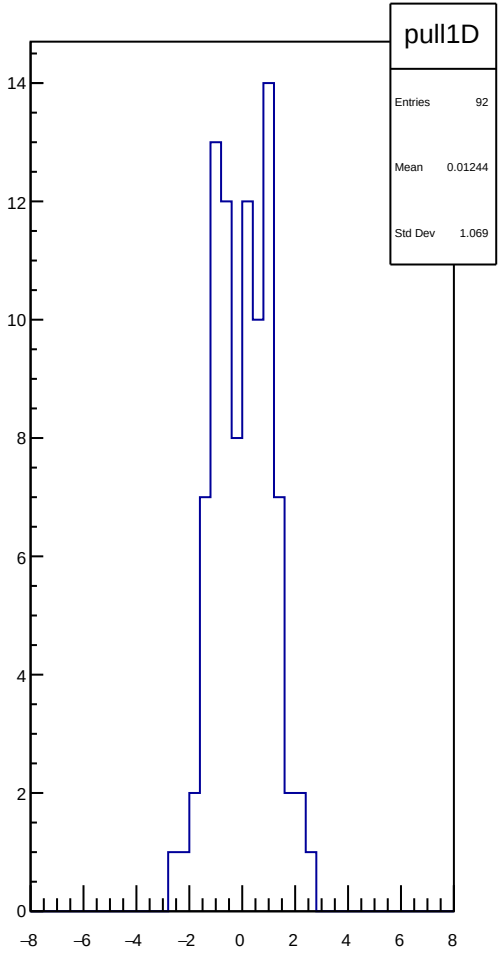

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.312e+06 / 91
p0 7.489e−12 ± 1.179e−14
0.05
0.04
0.03
0.02
0.01
0

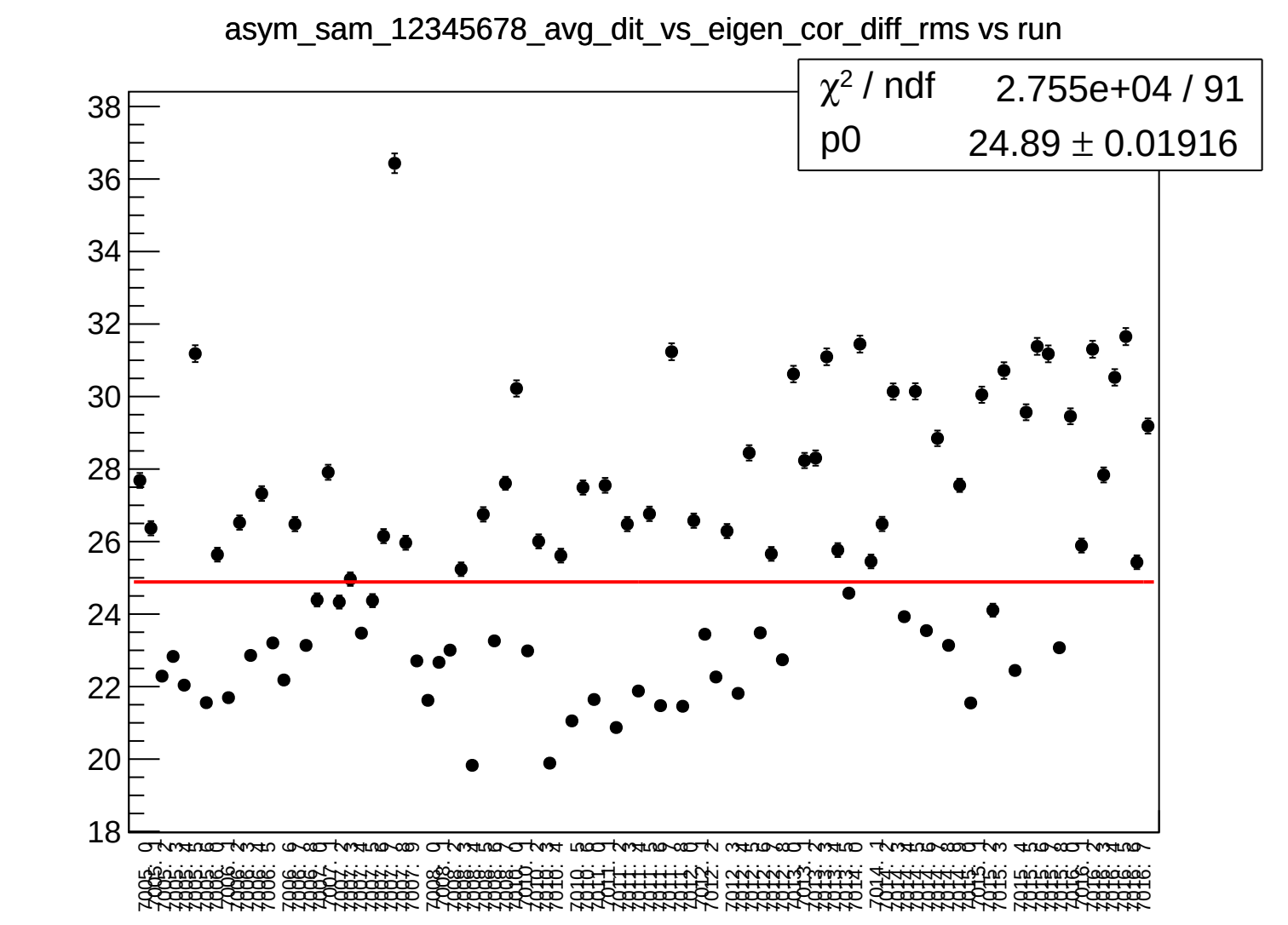

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 91
p0 −0.03644 ± 0.02709
pull
Entries 92
Mean 194
Std Dev 0

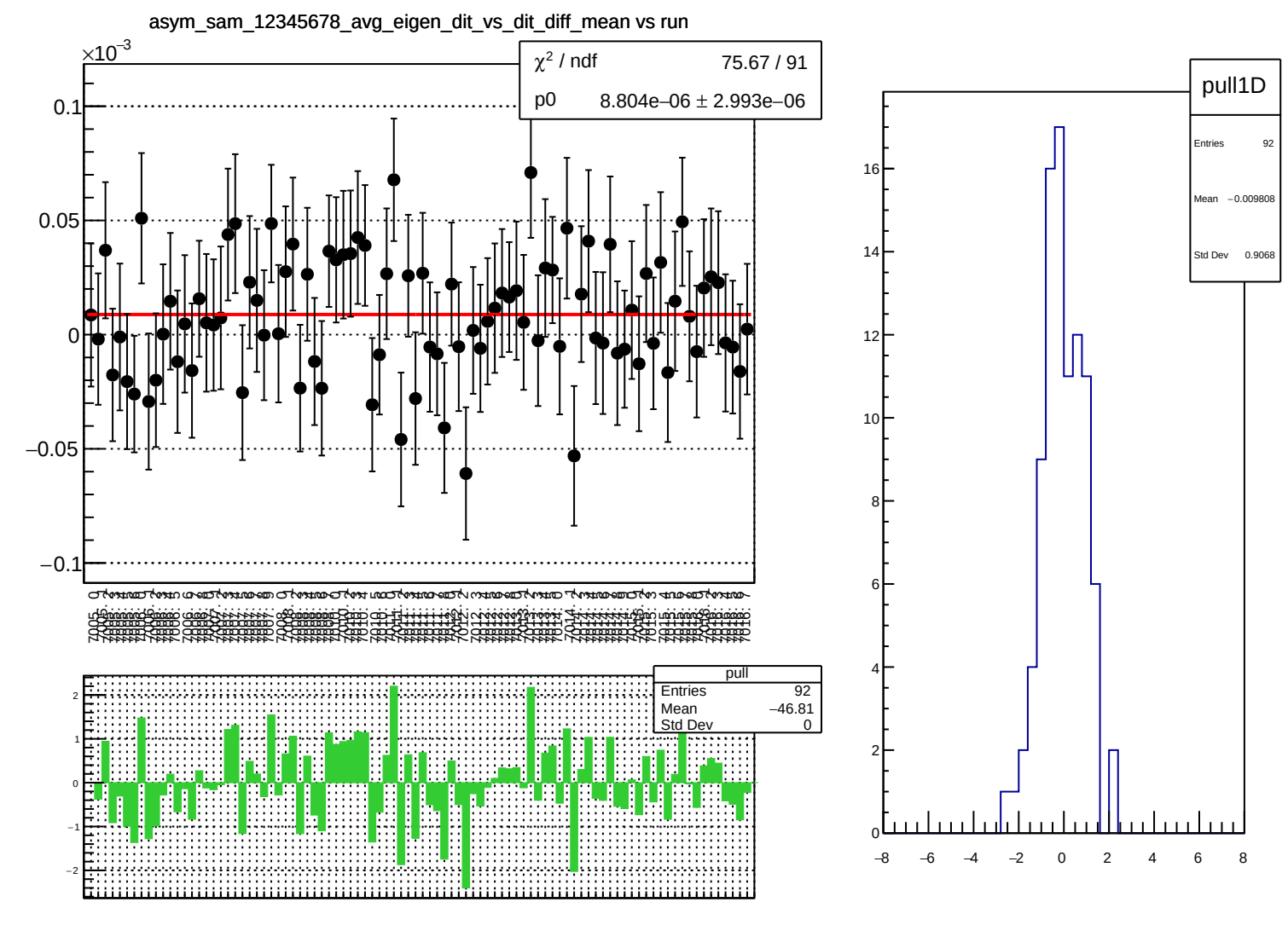

pull1D
Entries 92
Mean 0.01244
Std Dev 1.069

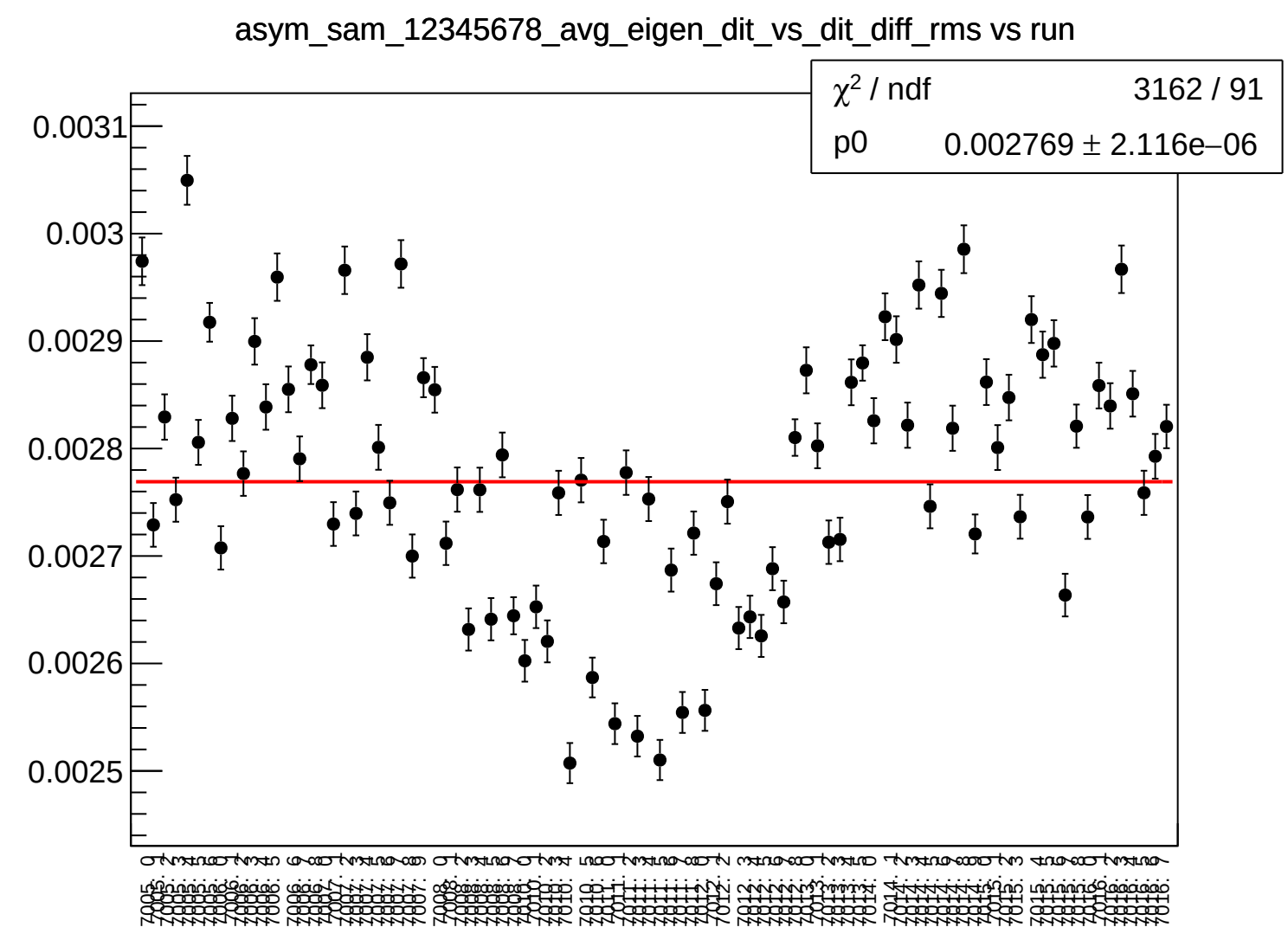

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.755e+04 / 91
p0 24.89 ± 0.01916
38
36
34
32
30
28
26
24
22
20
18

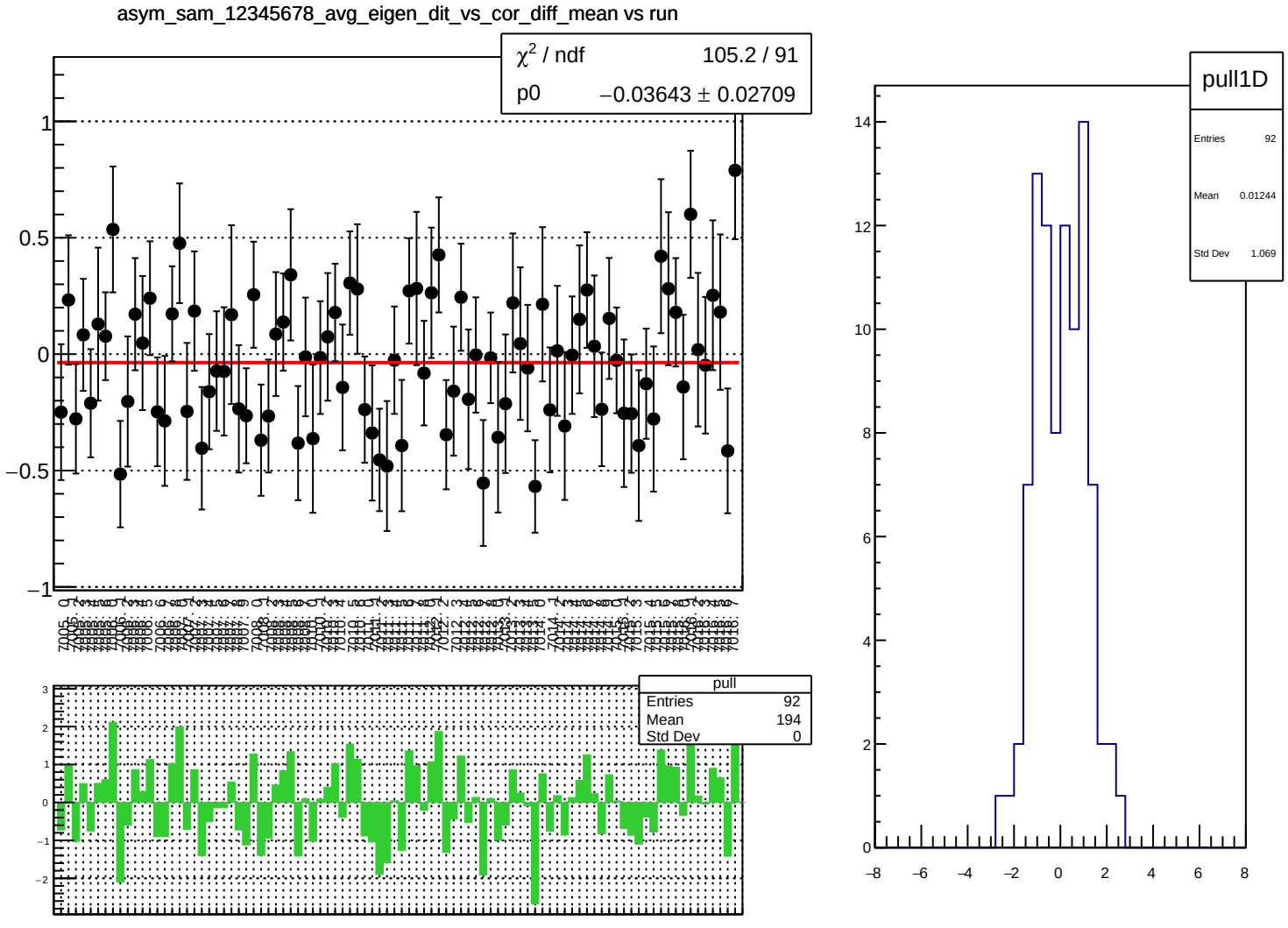

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 91
p0 −0.03644 ± 0.02709
pull
Entries 92
Mean 194
Std Dev 0

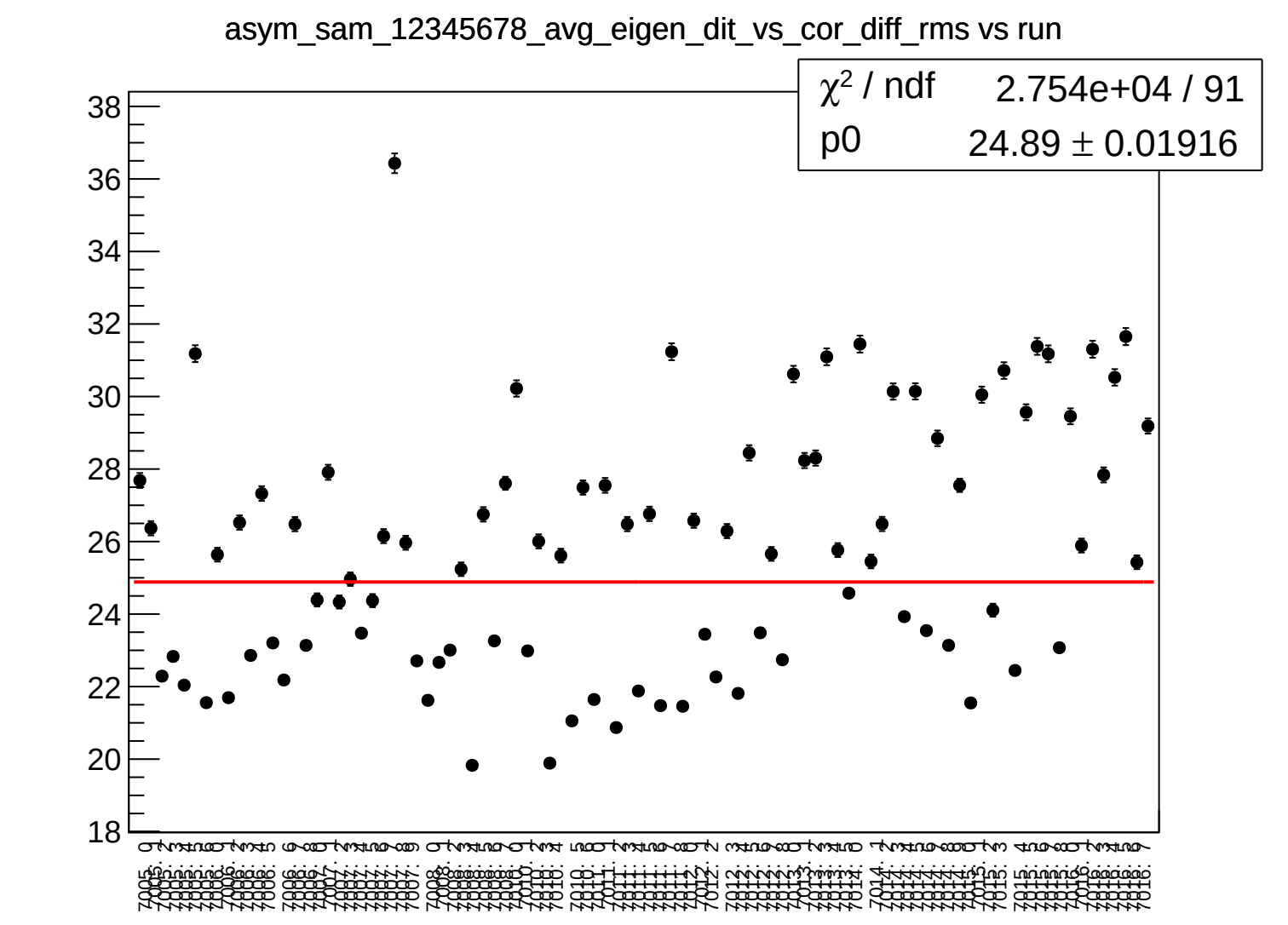

pull1D
Entries 92
Mean 0.01244
Std Dev 1.069

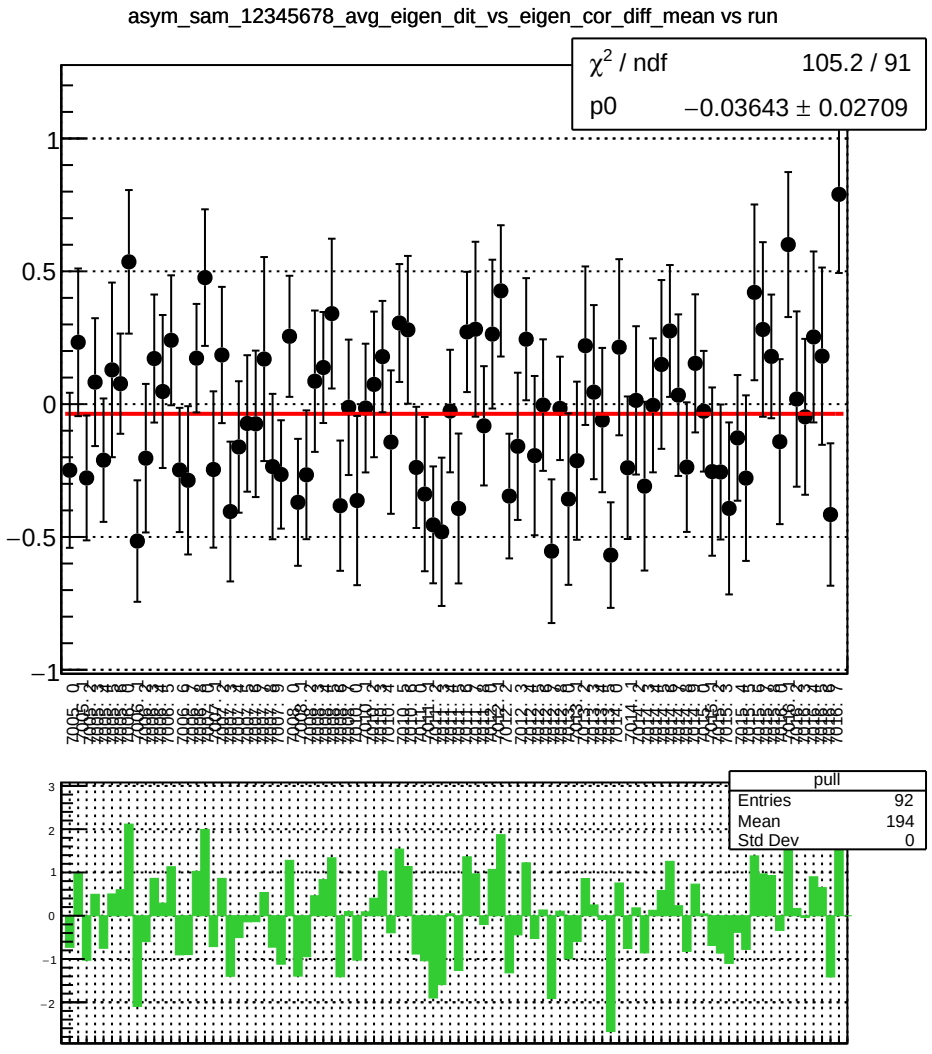

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.755e+04 / 91
p0 24.89 ± 0.01916
38
36
34
32
30
28
26
24
22
20
18

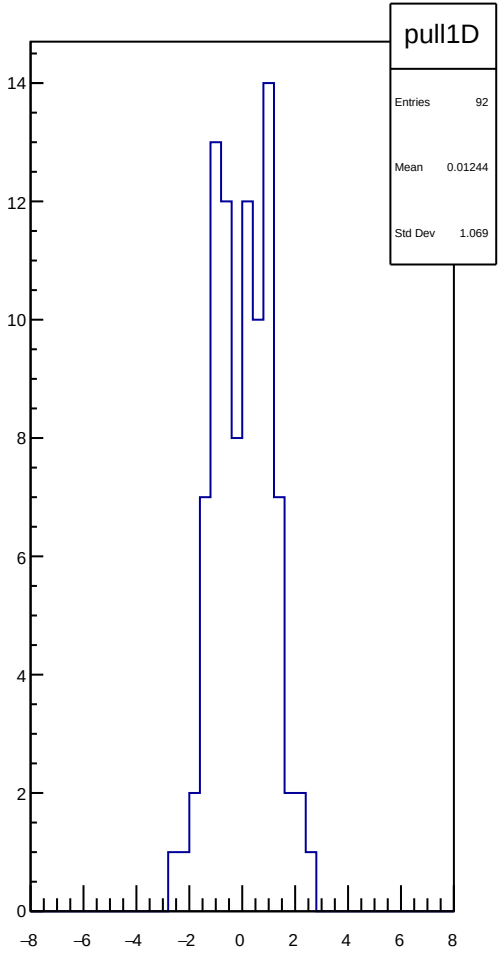

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.67 / 91
p0 8.804e−06 ± 2.993e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean −46.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.009808
Std Dev 0.9068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

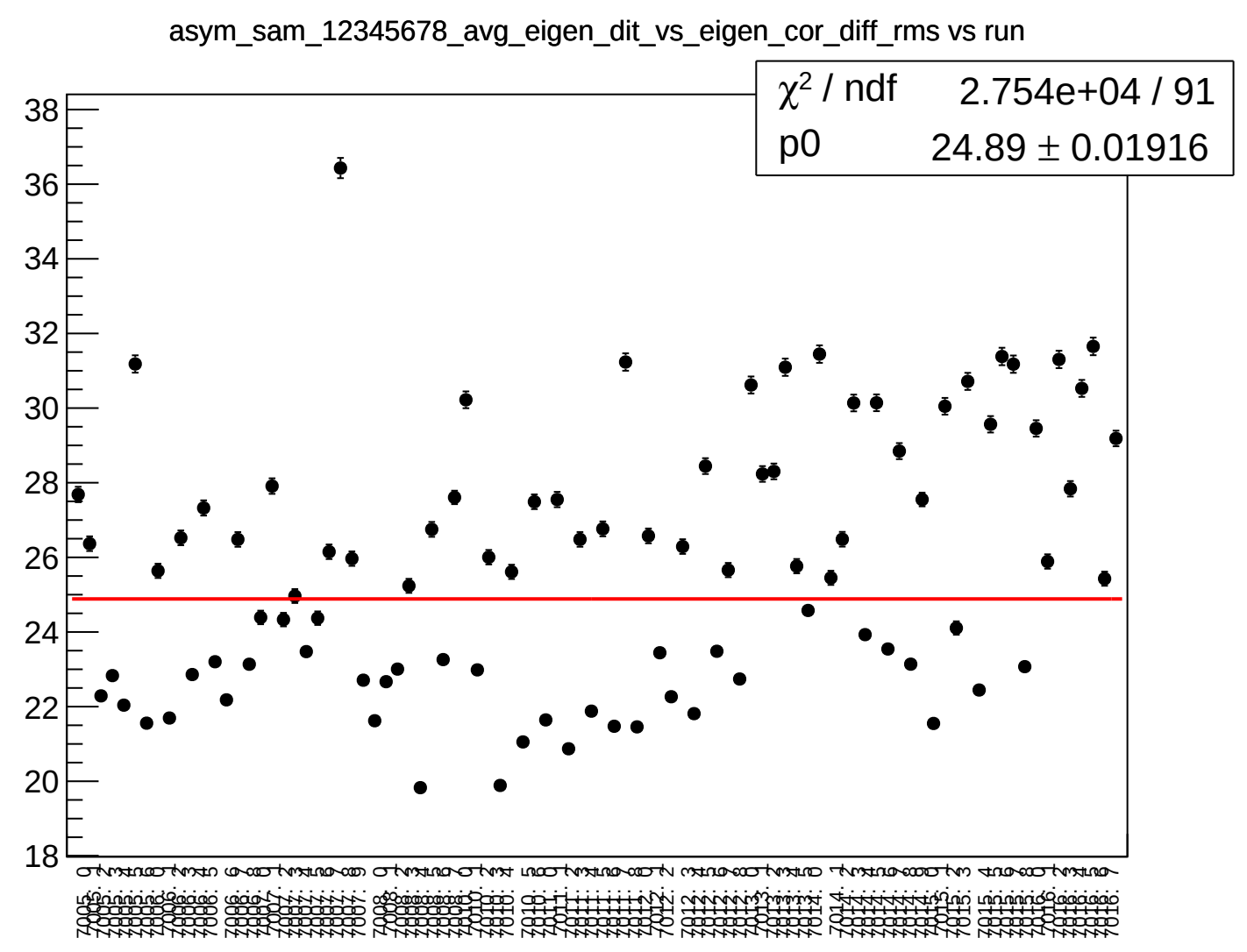

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3162 / 91
p0 0.002769 ± 2.116e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

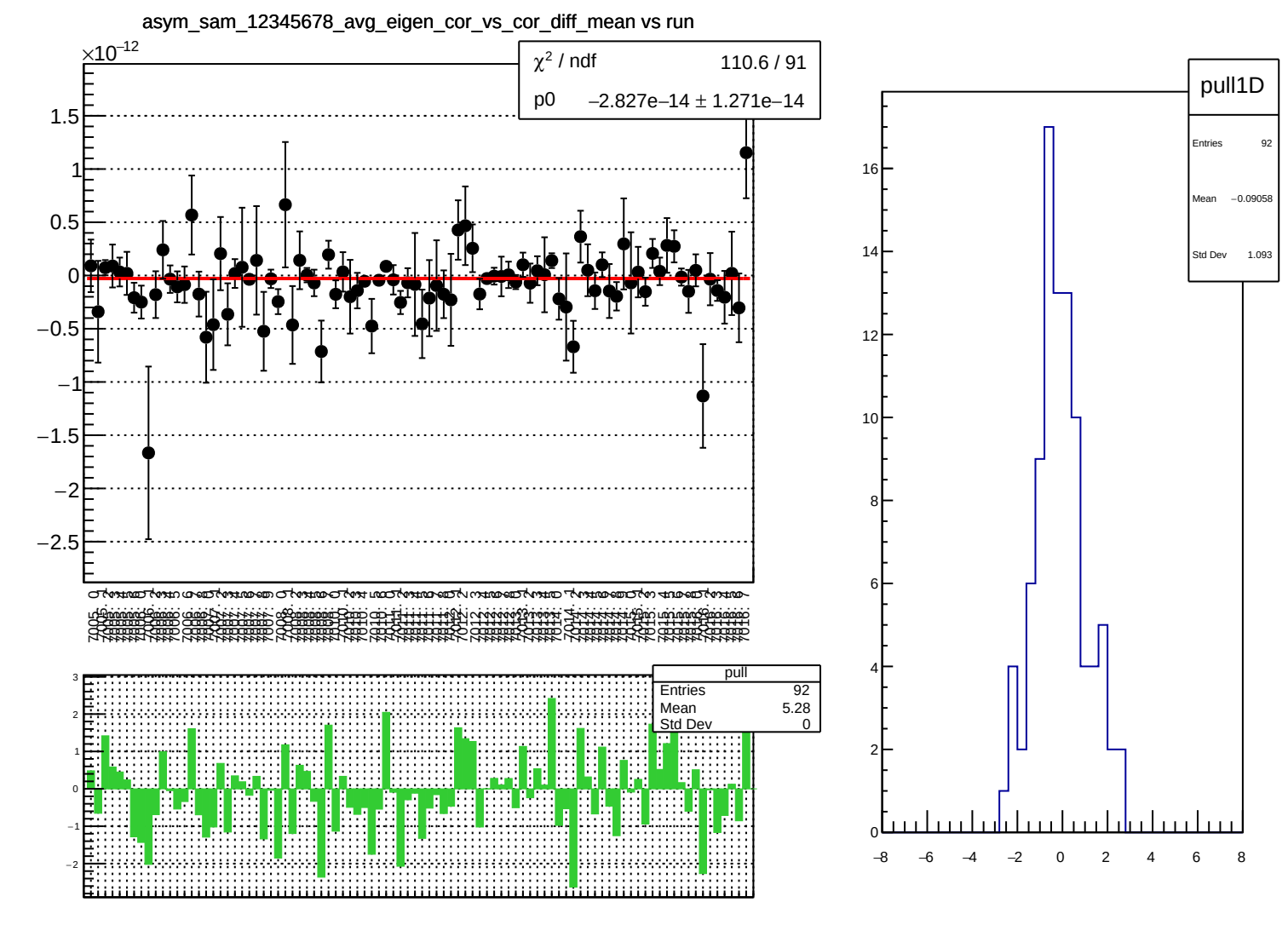

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 91
p0 −0.03643 ± 0.02709
pull
Entries 92
Mean 194
Std Dev 0
pull1D
Entries 92
Mean 0.01244
Std Dev 1.069

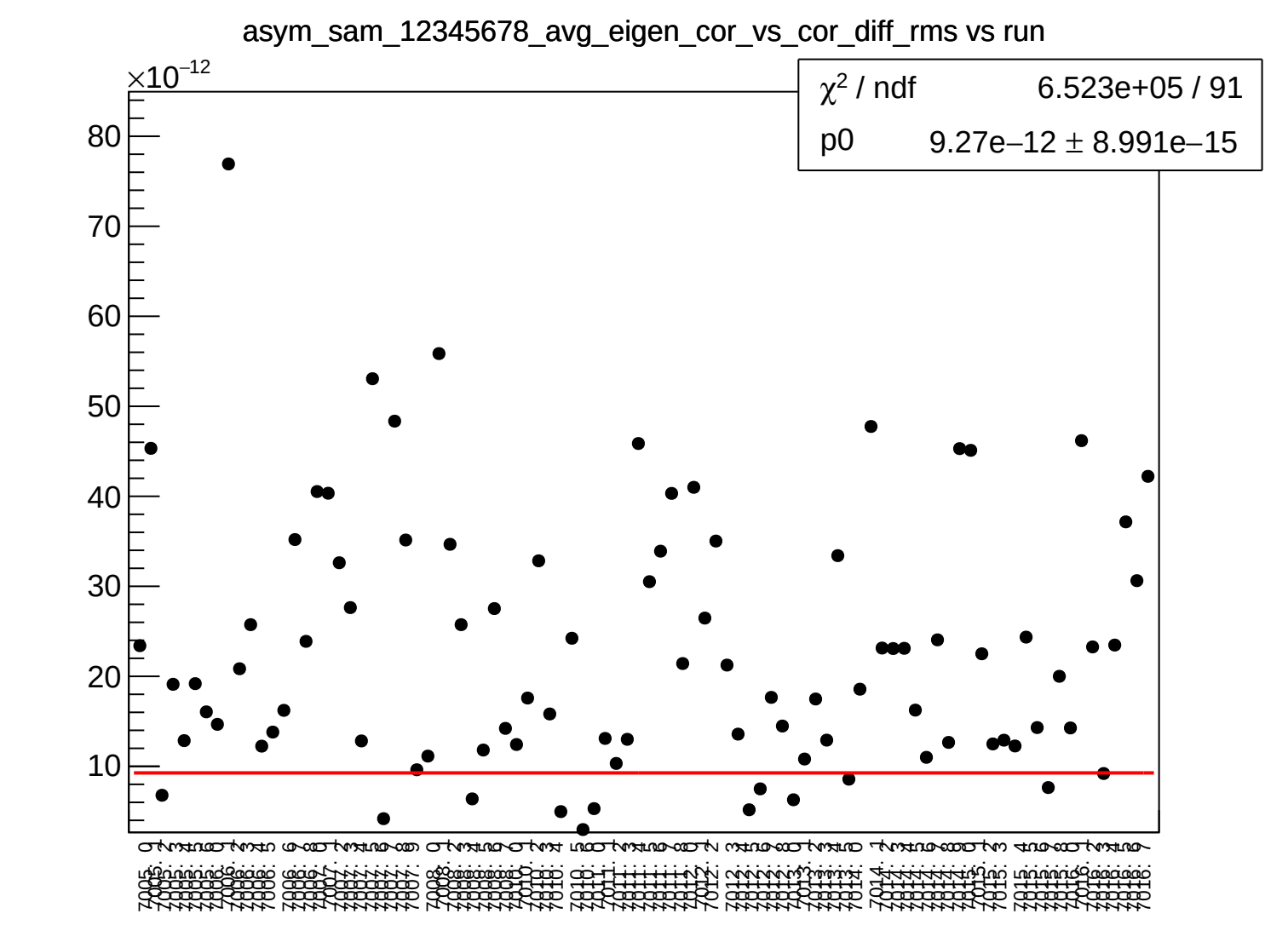

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.754e+04 / 91
p0 24.89 ± 0.01916
38
36
34
32
30
28
26
24
22
20
18

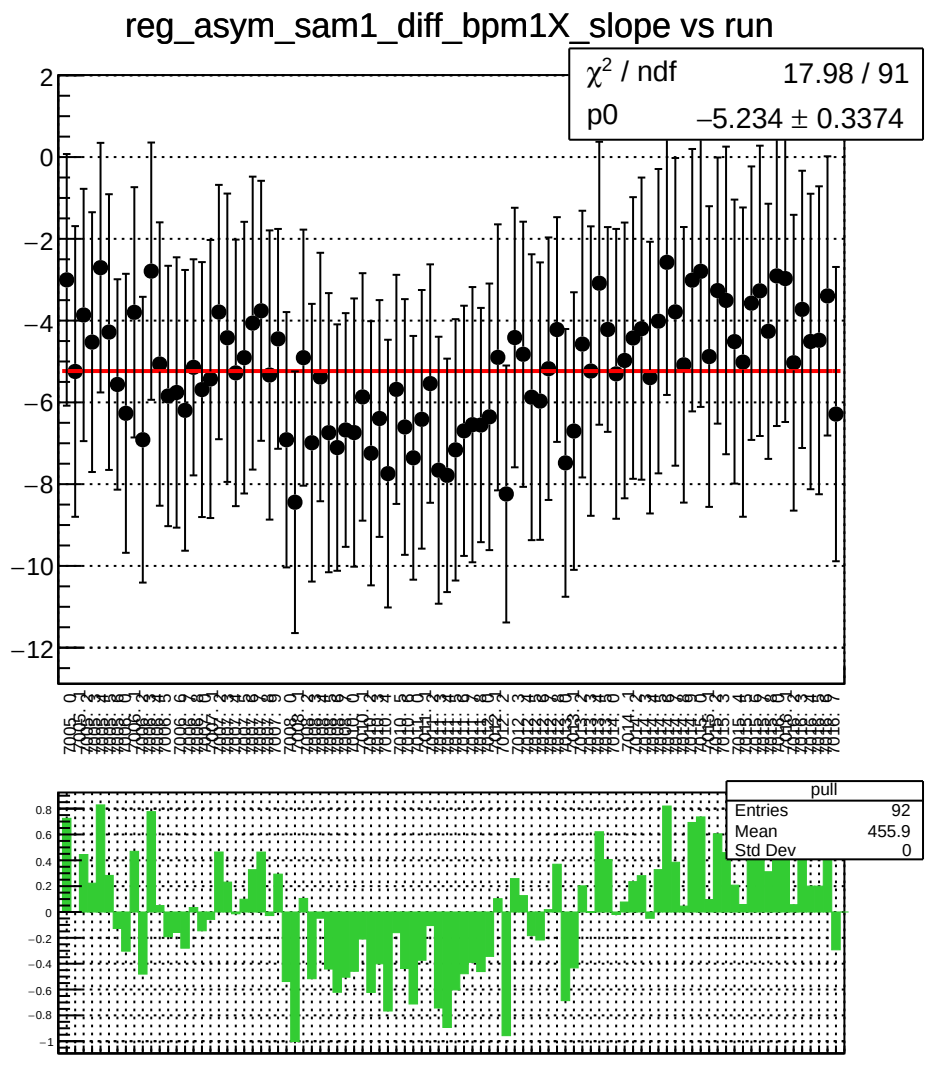

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 91
p0 −0.03643 ± 0.02709
pull
Entries 92
Mean 194
Std Dev 0

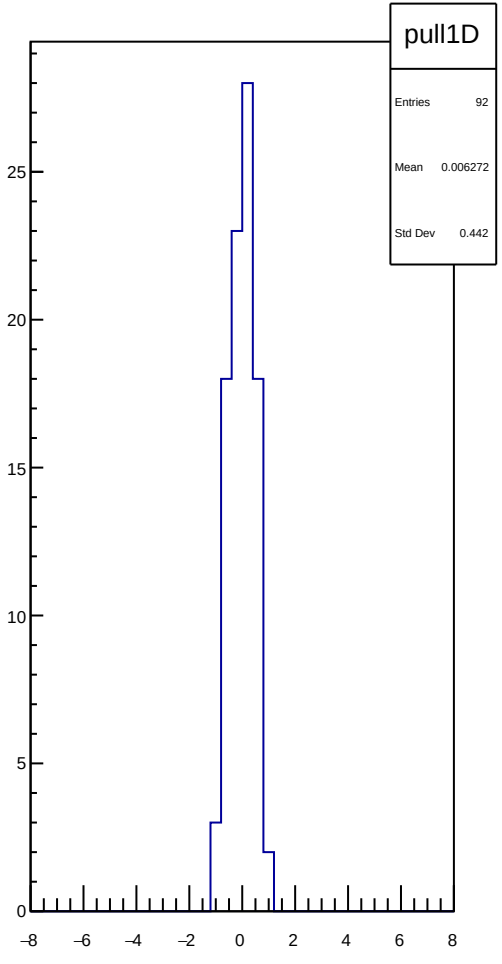

pull1D
Entries 92
Mean 0.01244
Std Dev 1.069

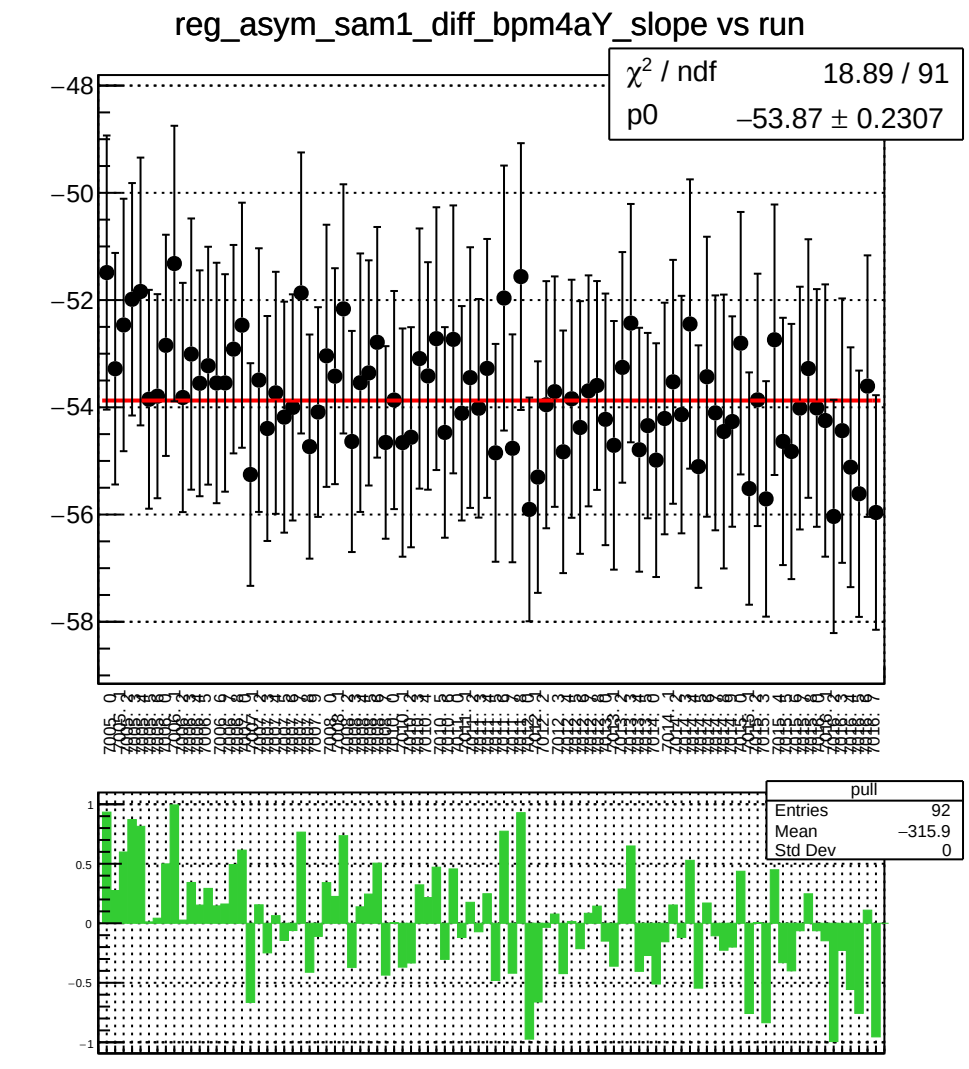

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.754e+04 / 91
p0 24.89 ± 0.01916
38
36
34
32
30
28
26
24
22
20
18

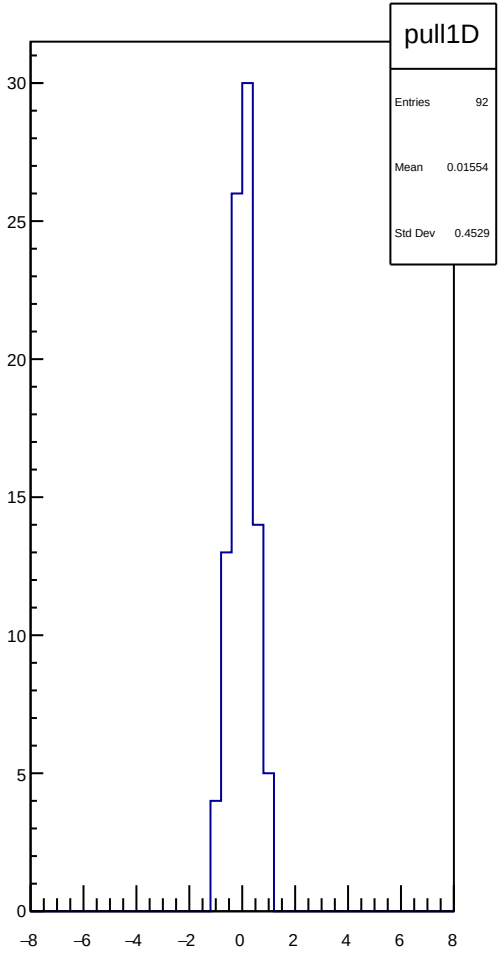

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 110.6 / 91
p0 −2.827e−14 ± 1.271e−14
pull
Entries 92
Mean 5.28
Std Dev 0
pull1D
Entries 92
Mean −0.09058
Std Dev 1.093

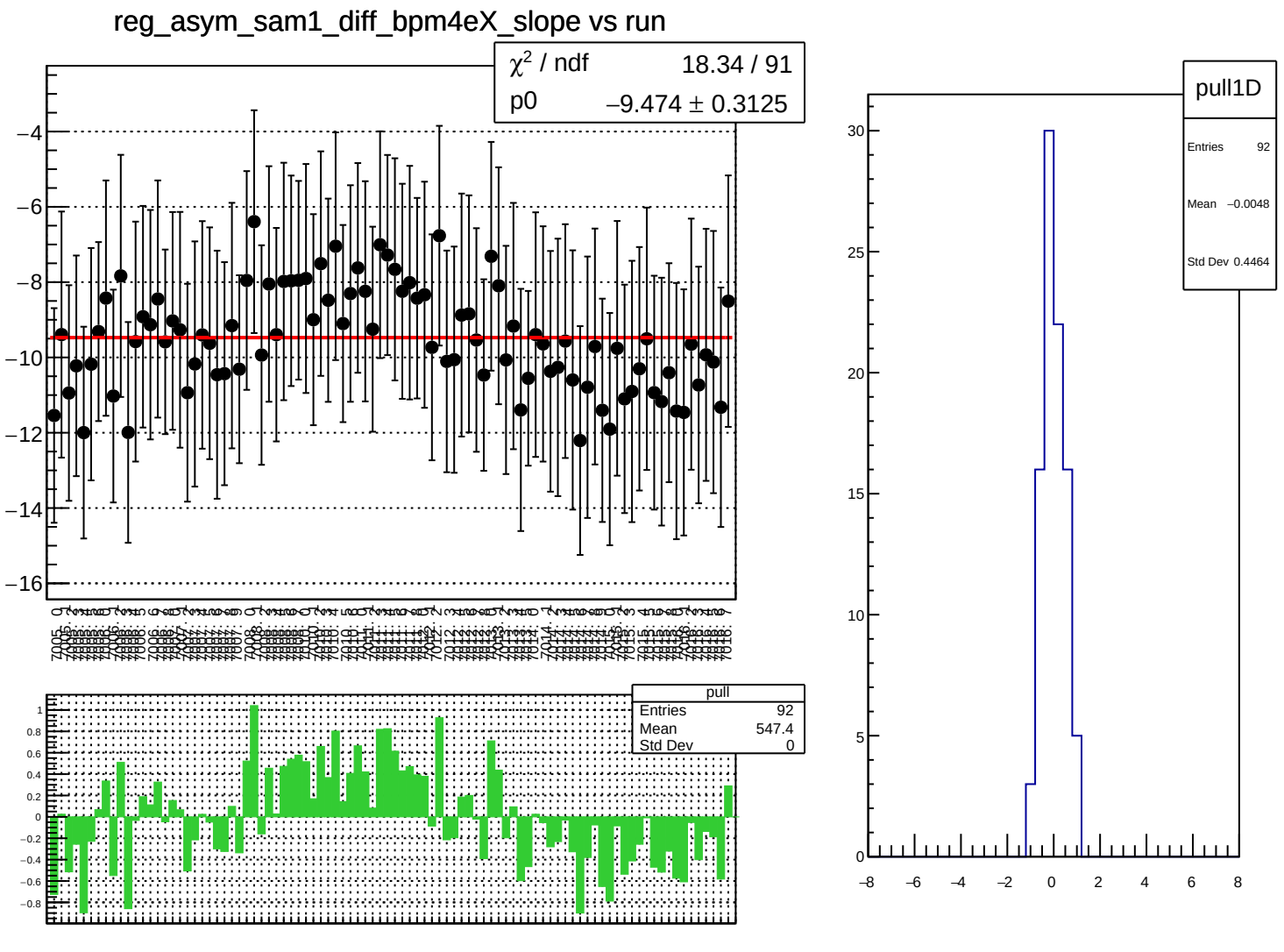

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.523e+05 / 91
p0 9.27e−12 ± 8.991e−15
80
70
60
50
40
30
20
10

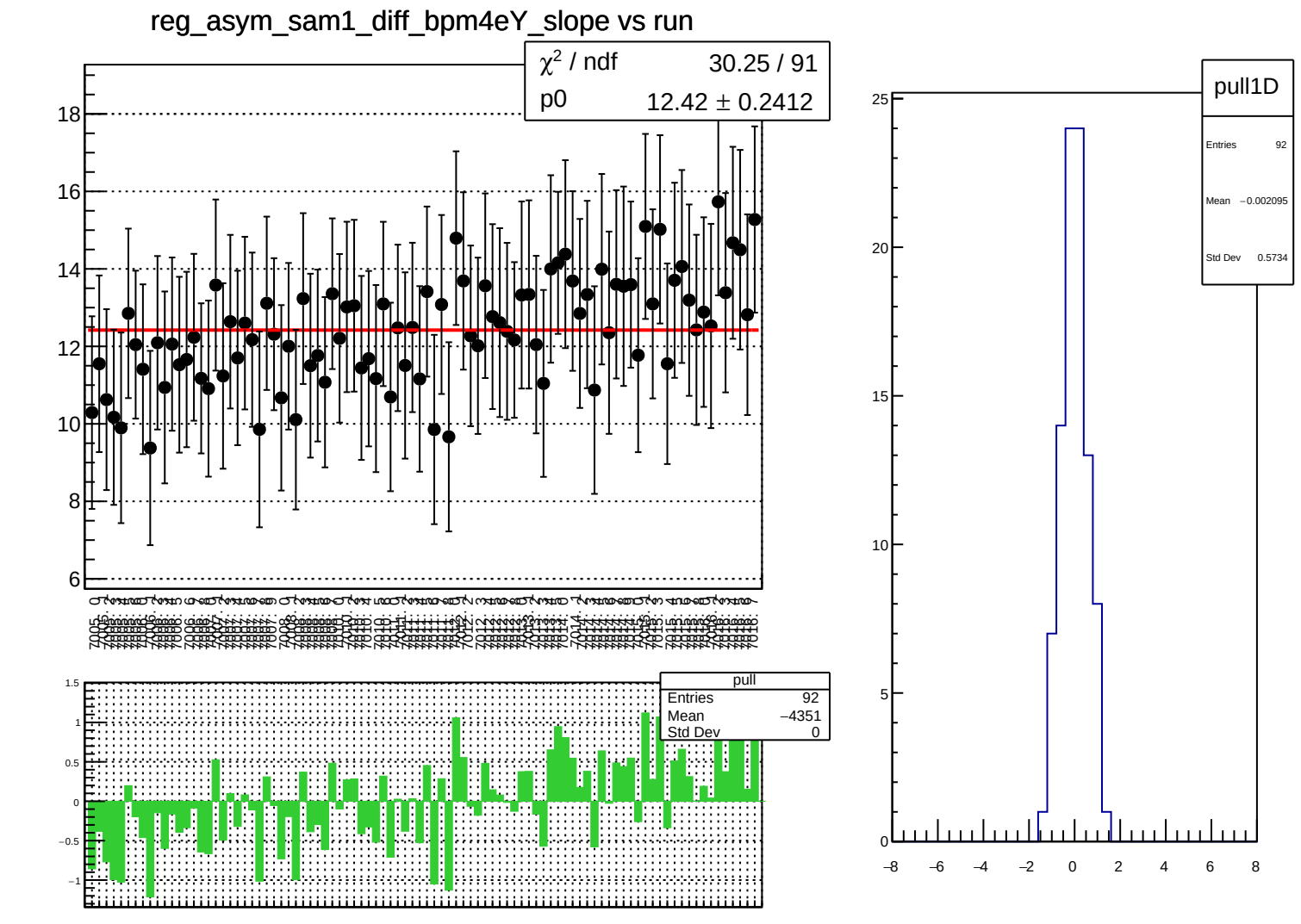

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 17.98 / 91
p0 −5.234 ± 0.3374
pull
Entries 92
Mean 455.9
Std Dev 0

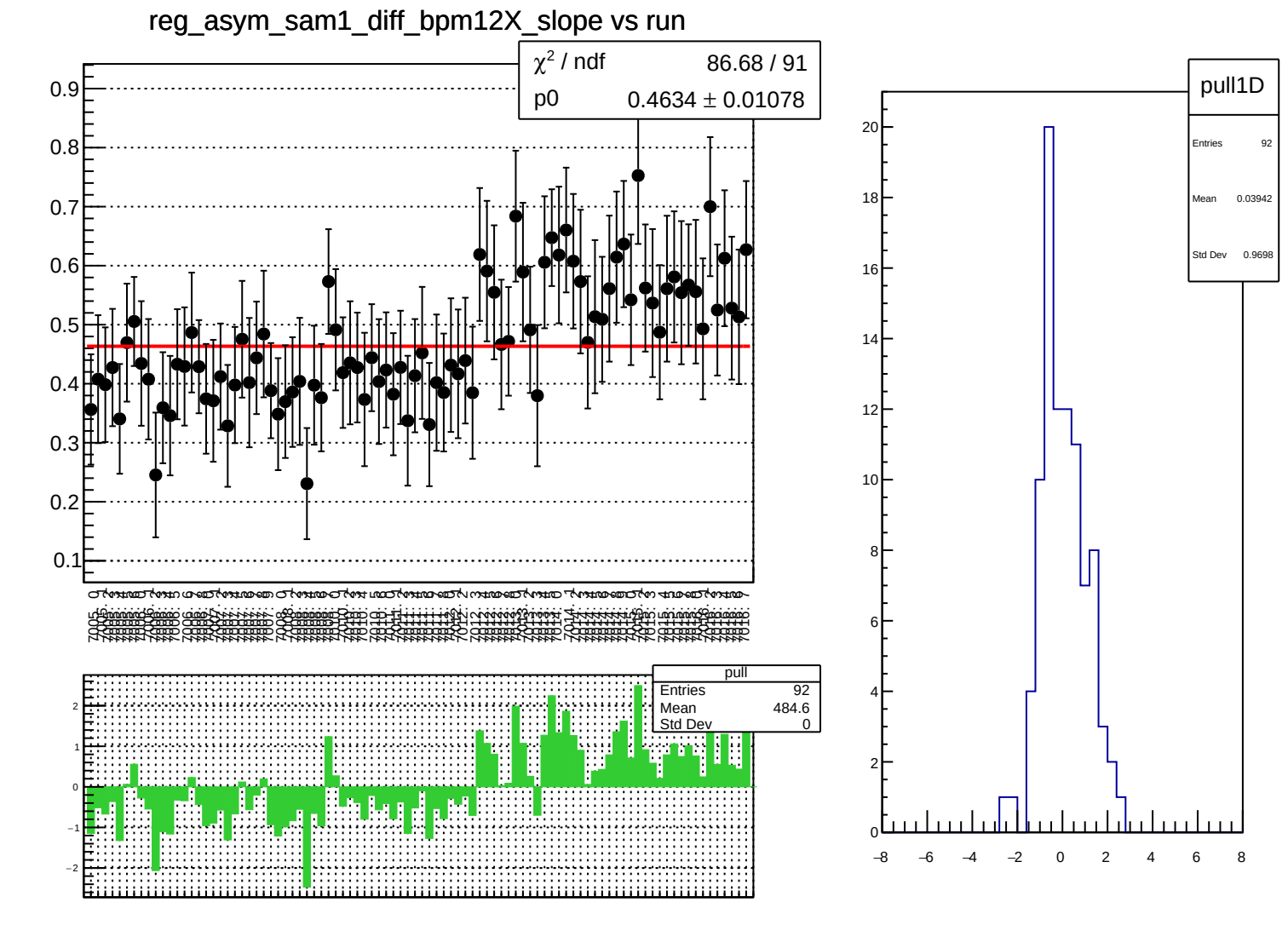

pull1D
Entries 92
Mean 0.006272
Std Dev 0.442

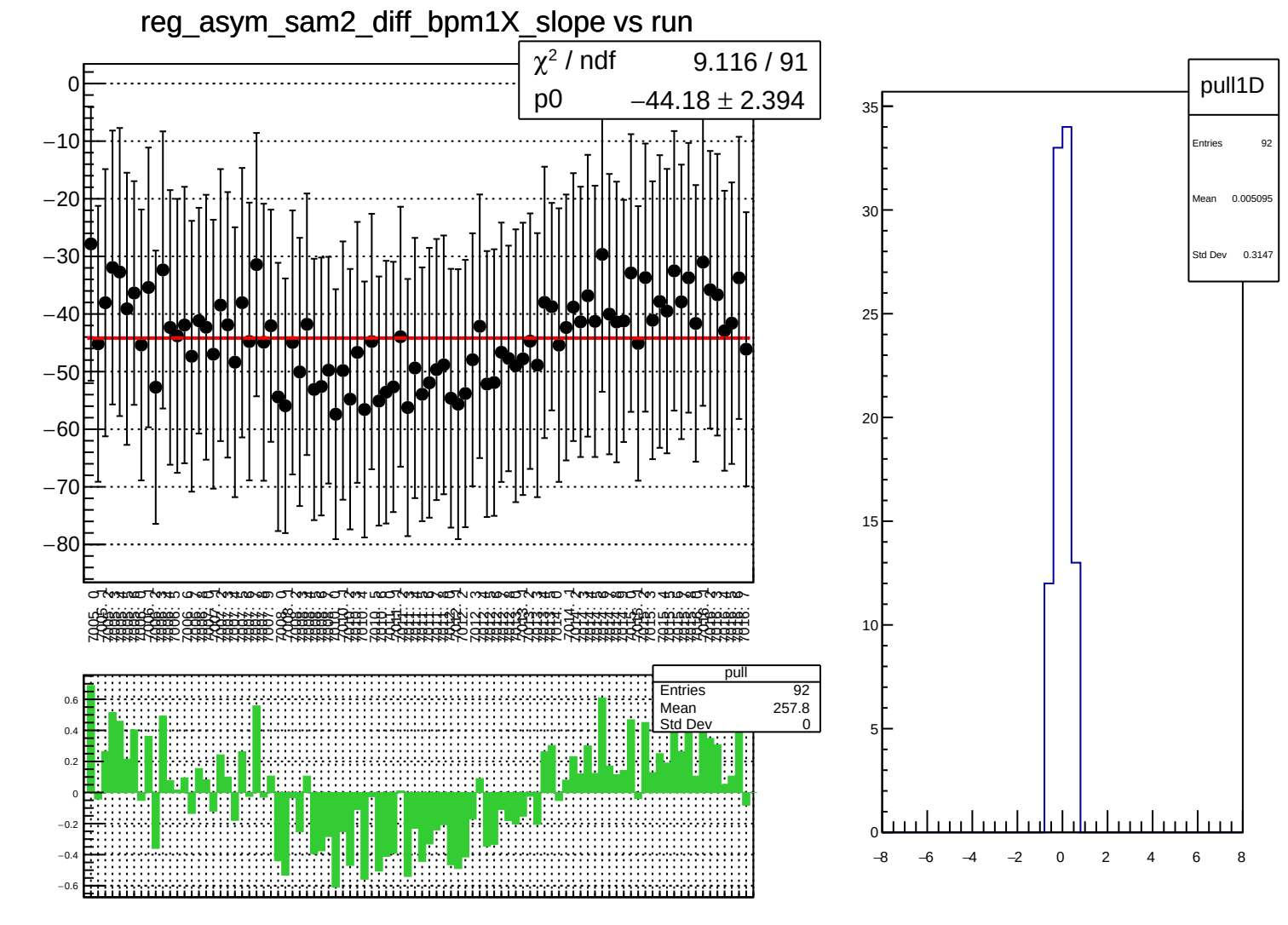

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 18.89 / 91
p0 −53.87 ± 0.2307
pull
Entries 92
Mean −315.9
Std Dev 0

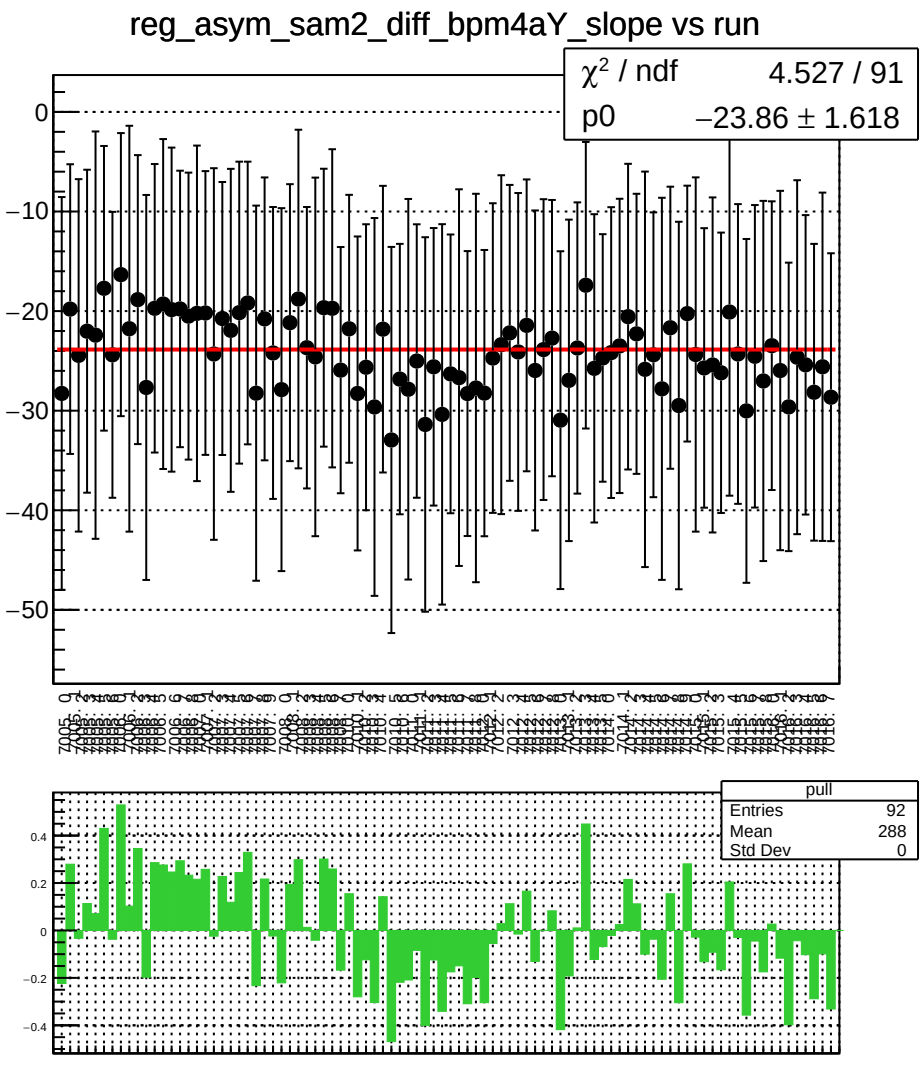

pull1D
Entries 92
Mean 0.01554
Std Dev 0.4529

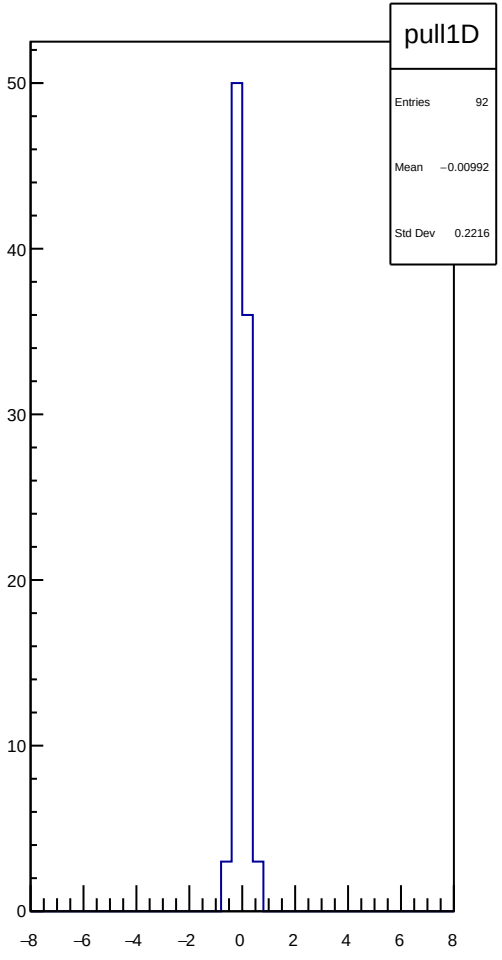

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 18.34 / 91
p0 −9.474 ± 0.3125
pull
Entries 92
Mean 547.4
Std Dev 0
pull1D
Entries 92
Mean −0.0048
Std Dev 0.4464

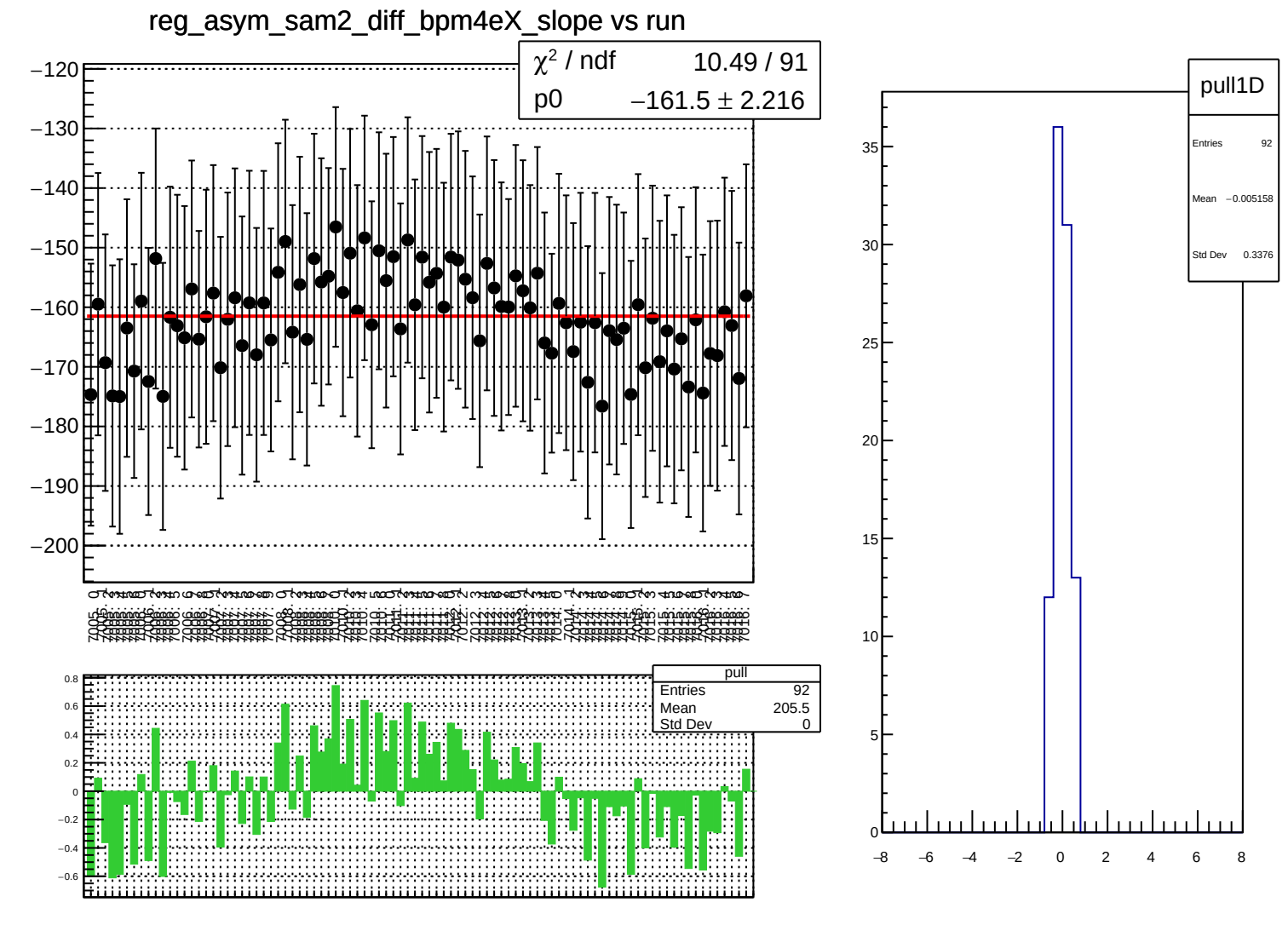

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 30.25 / 91
p0 12.42 ± 0.2412
pull
Entries 92
Mean −4351
Std Dev 0
pull1D
Entries 92
Mean −0.002095
Std Dev 0.5734

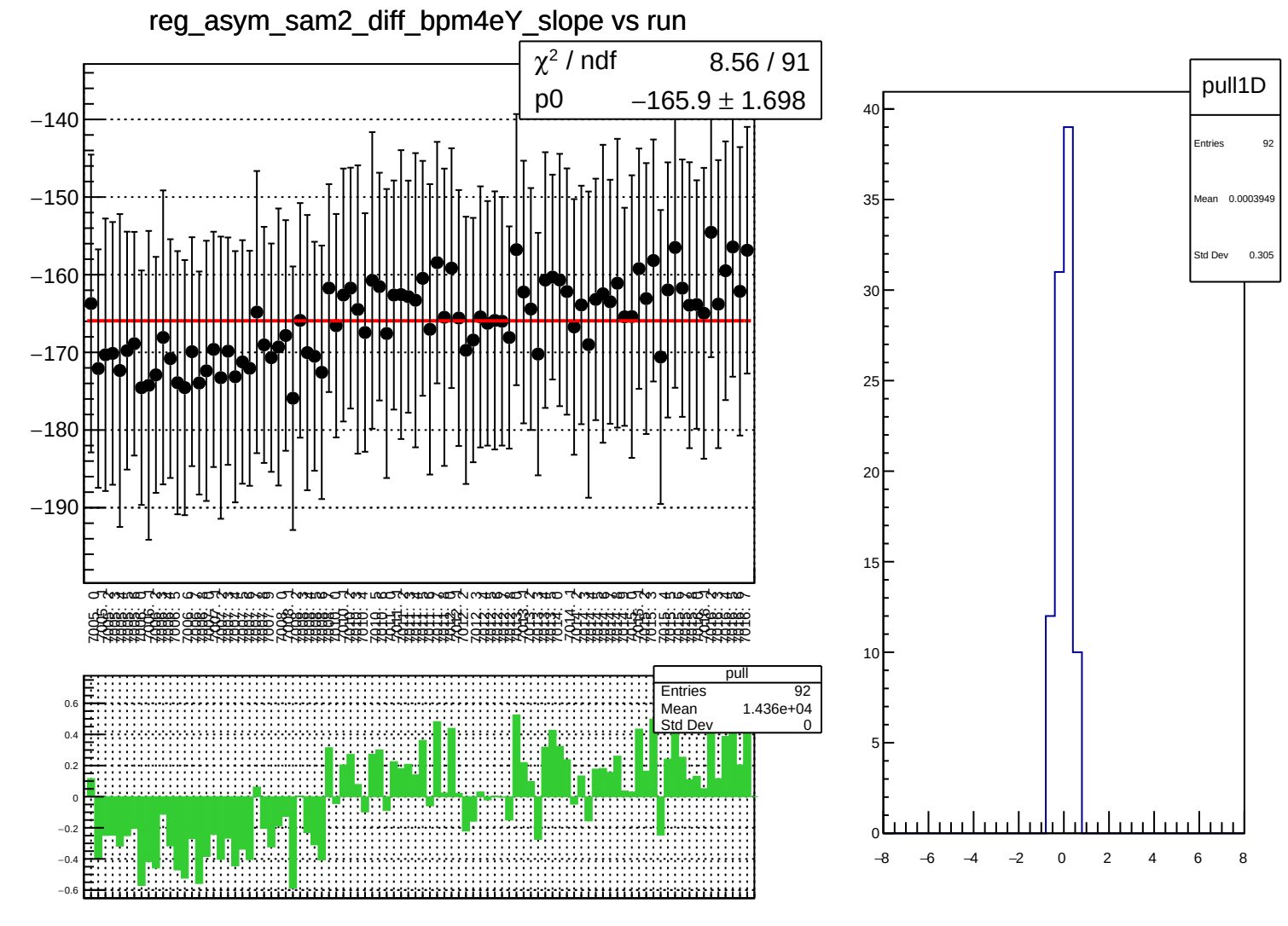

reg_asym_sam1_diff_bpm12X_slope vs run
$\chi^2$ / ndf 86.68 / 91
p0 0.4634 ± 0.01078
pull
Entries 92
Mean 484.6
Std Dev 0
pull1D
Entries 92
Mean 0.03942
Std Dev 0.9698

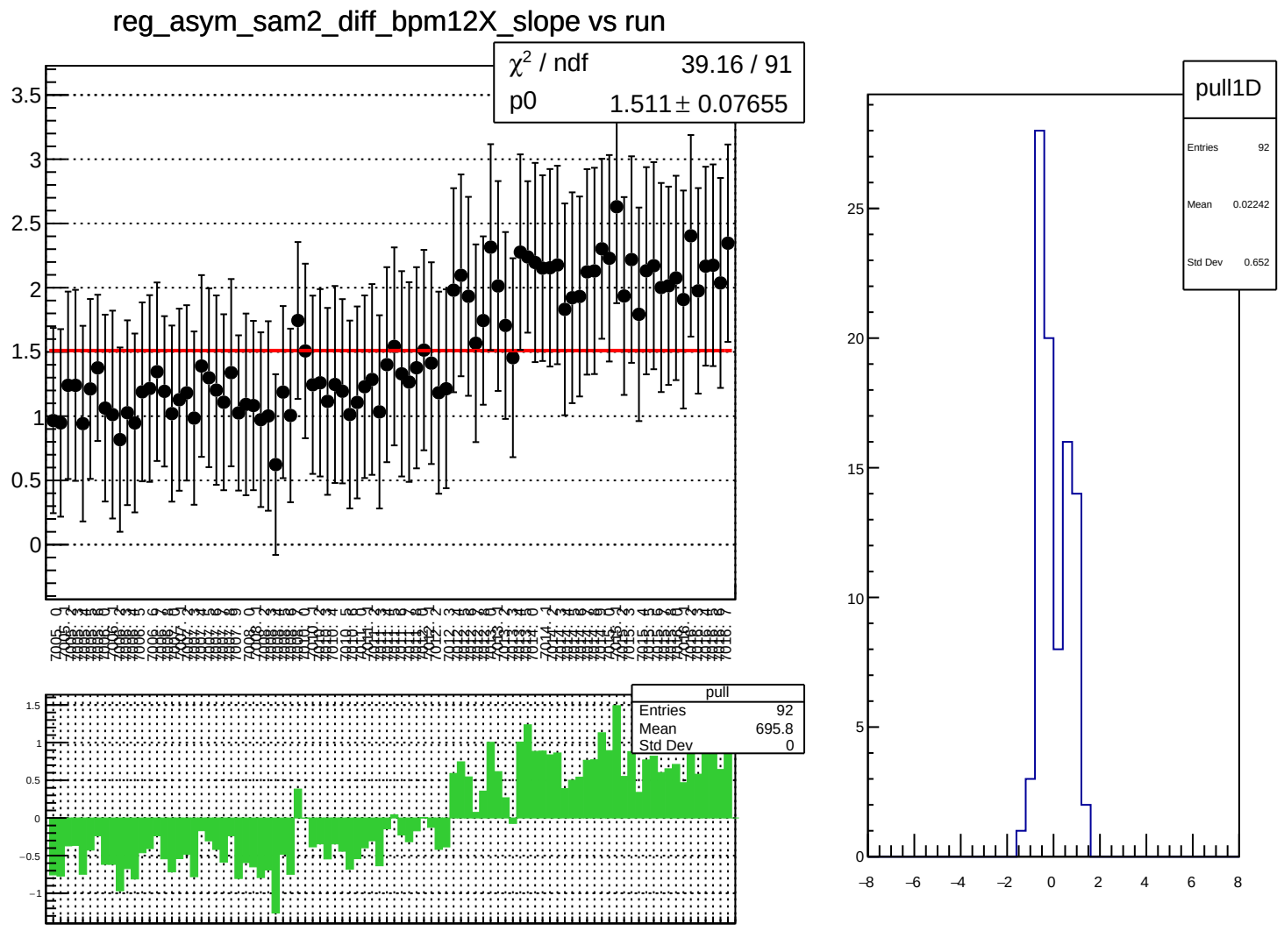

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 9.116 / 91
p0 −44.18 ± 2.394
pull
Entries 92
Mean 257.8
Std Dev 0
pull1D
Entries 92
Mean 0.005095
Std Dev 0.3147

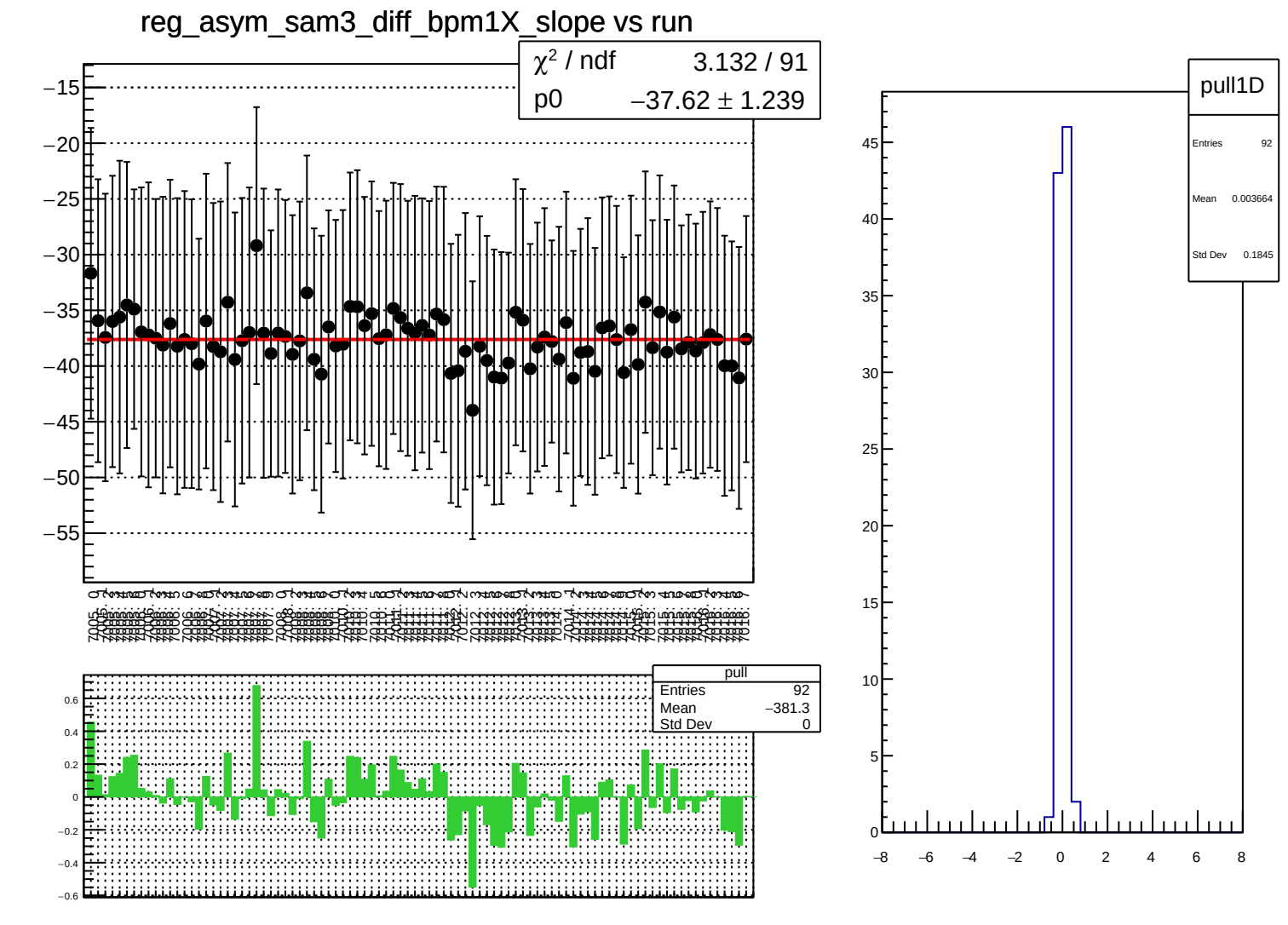

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 4.527 / 91
p0 −23.86 ± 1.618
0
−10
−20
−30
−40
−50
pull
Entries 92
Mean 288
Std Dev 0
0.4
0.2
0
−0.2
−0.4

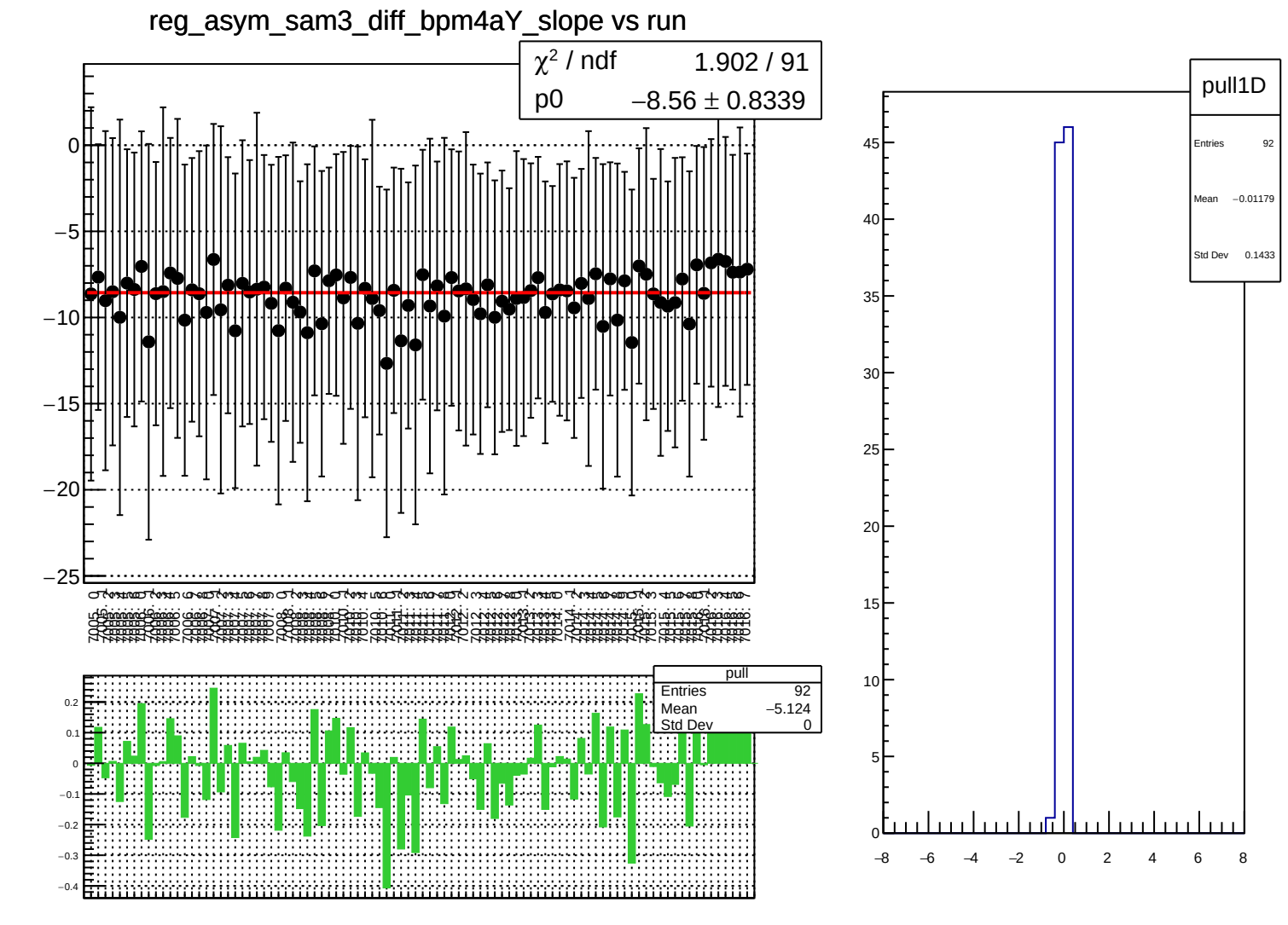

pull1D
Entries 92
Mean −0.00992
Std Dev 0.2216
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

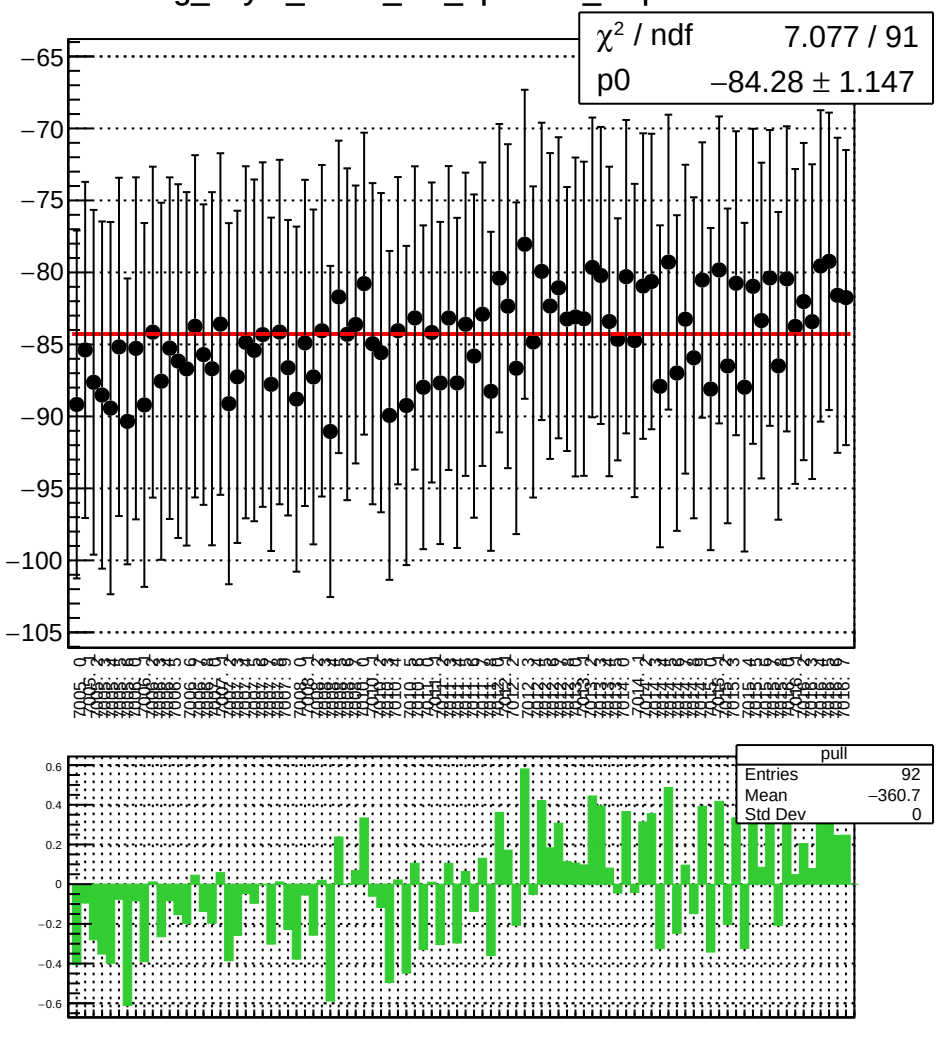

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 10.49 / 91
p0 −161.5 ± 2.216
pull
Entries 92
Mean 205.5
Std Dev 0
pull1D
Entries 92
Mean −0.005158
Std Dev 0.3376

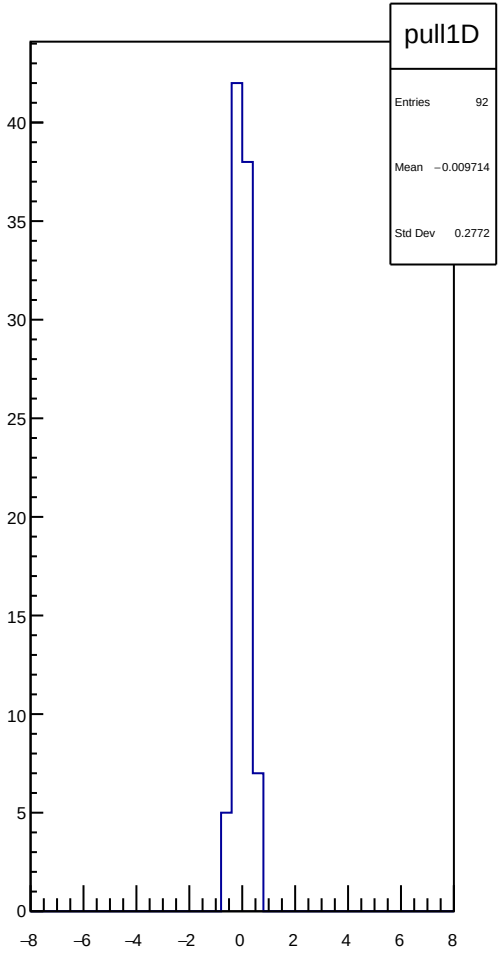

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 8.56 / 91
p0 −165.9 ± 1.698
pull
Entries 92
Mean 1.436e+04
Std Dev 0
pull1D
Entries 92
Mean 0.0003949
Std Dev 0.305

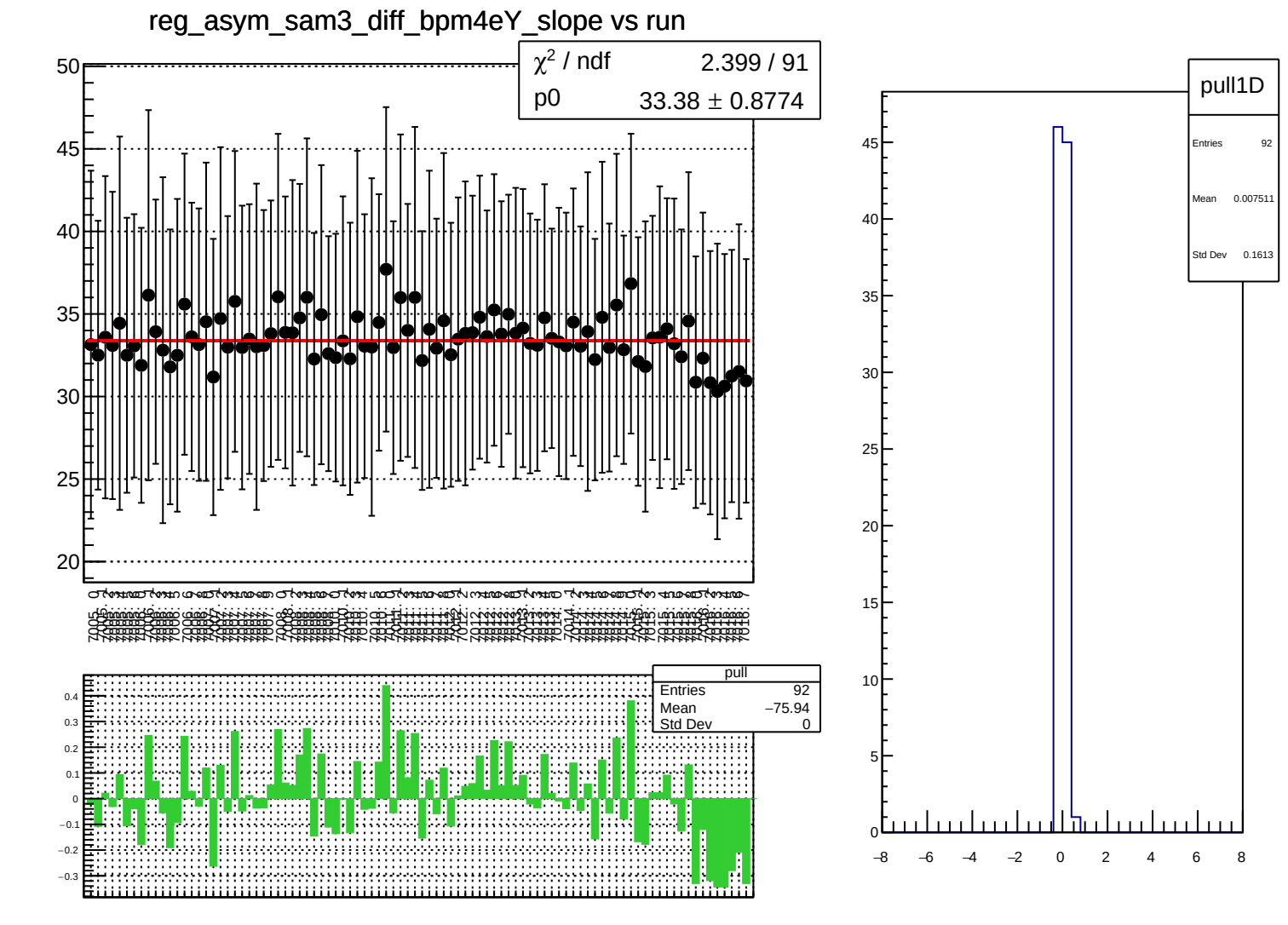

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 39.16 / 91
p0 1.511 ± 0.07655
pull
Entries 92
Mean 695.8
Std Dev 0
pull1D
Entries 92
Mean 0.02242
Std Dev 0.652

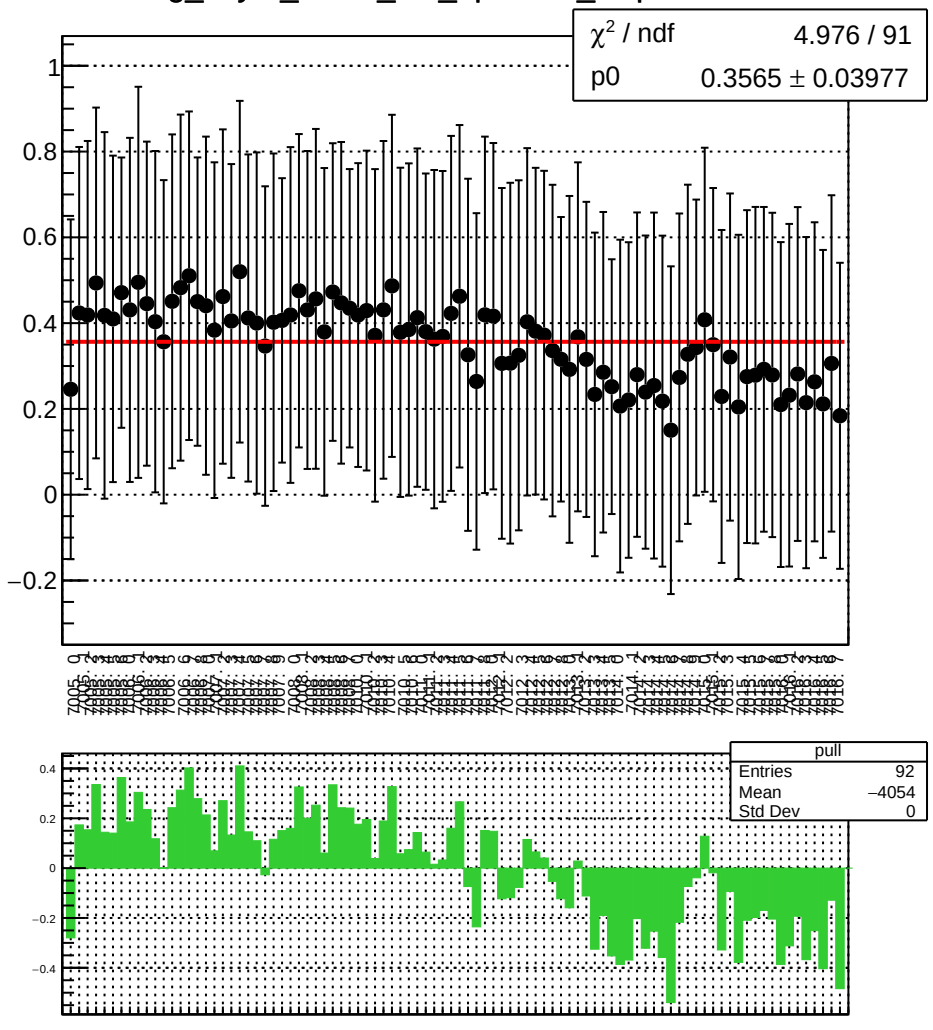

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 3.132 / 91
p0 −37.62 ± 1.239
pull
Entries 92
Mean −381.3
Std Dev 0
pull1D
Entries 92
Mean 0.003664
Std Dev 0.1845

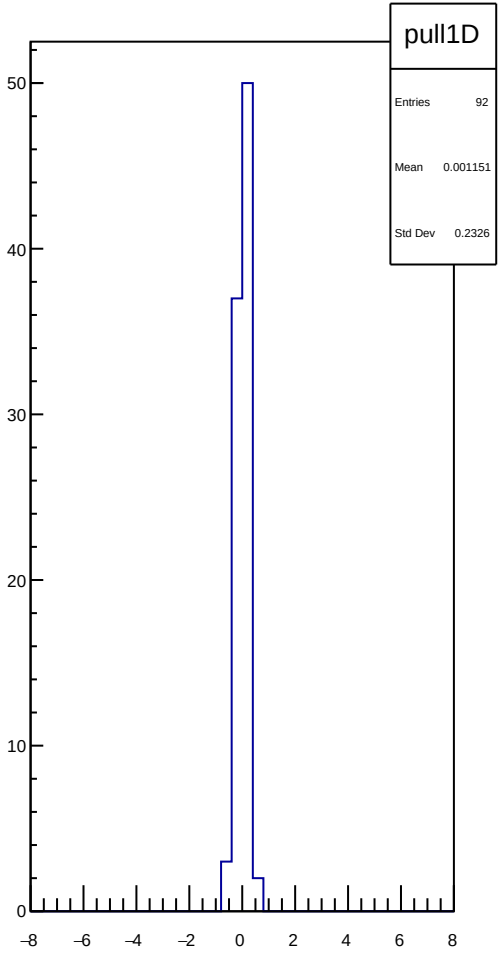

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.902 / 91
p0 −8.56 ± 0.8339
pull
Entries 92
Mean −5.124
Std Dev 0
pull1D
Entries 92
Mean −0.01179
Std Dev 0.1433

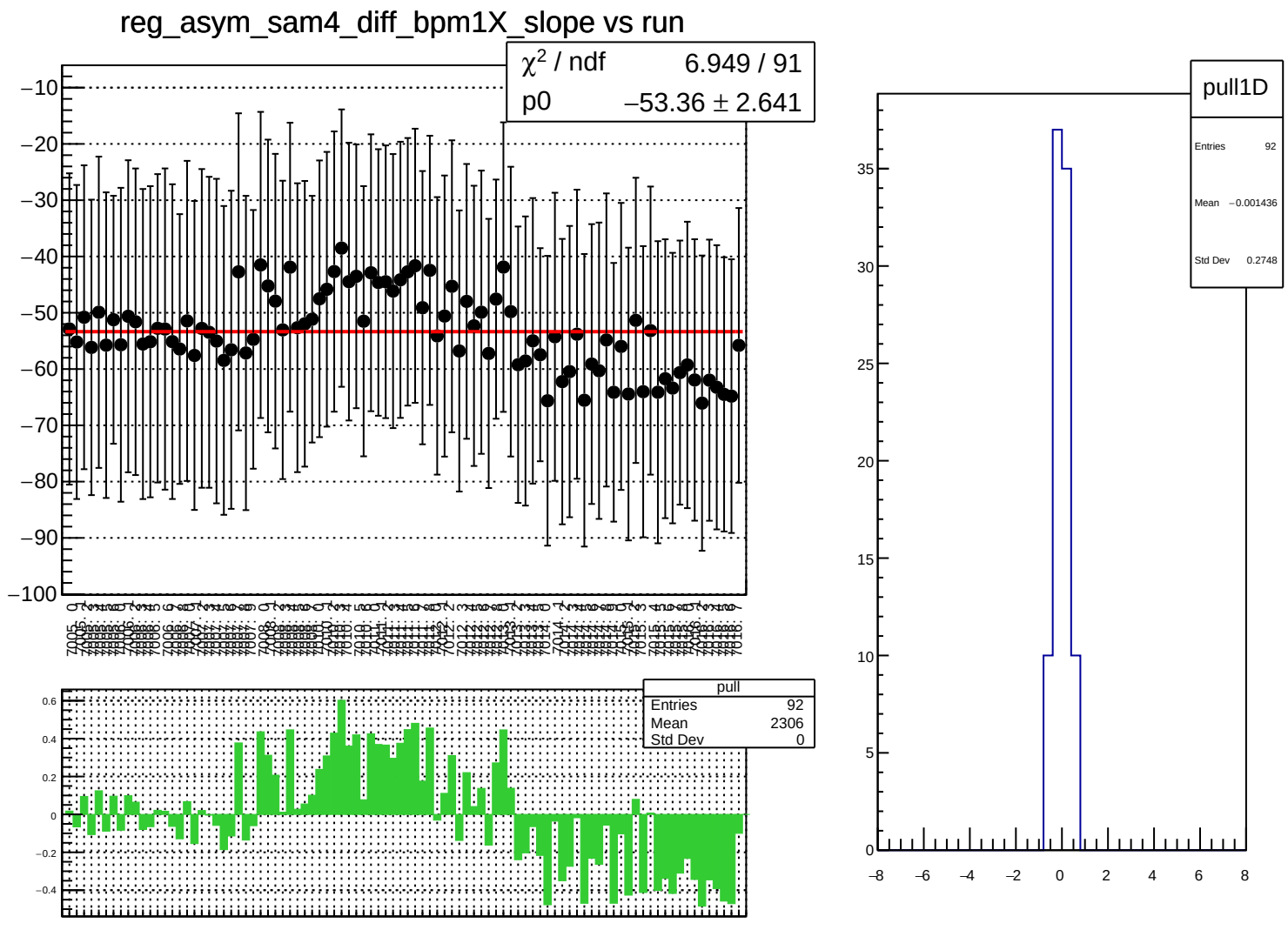

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 7.077 / 91
p0 −84.28 ± 1.147
pull
Entries 92
Mean −360.7
Std Dev 0

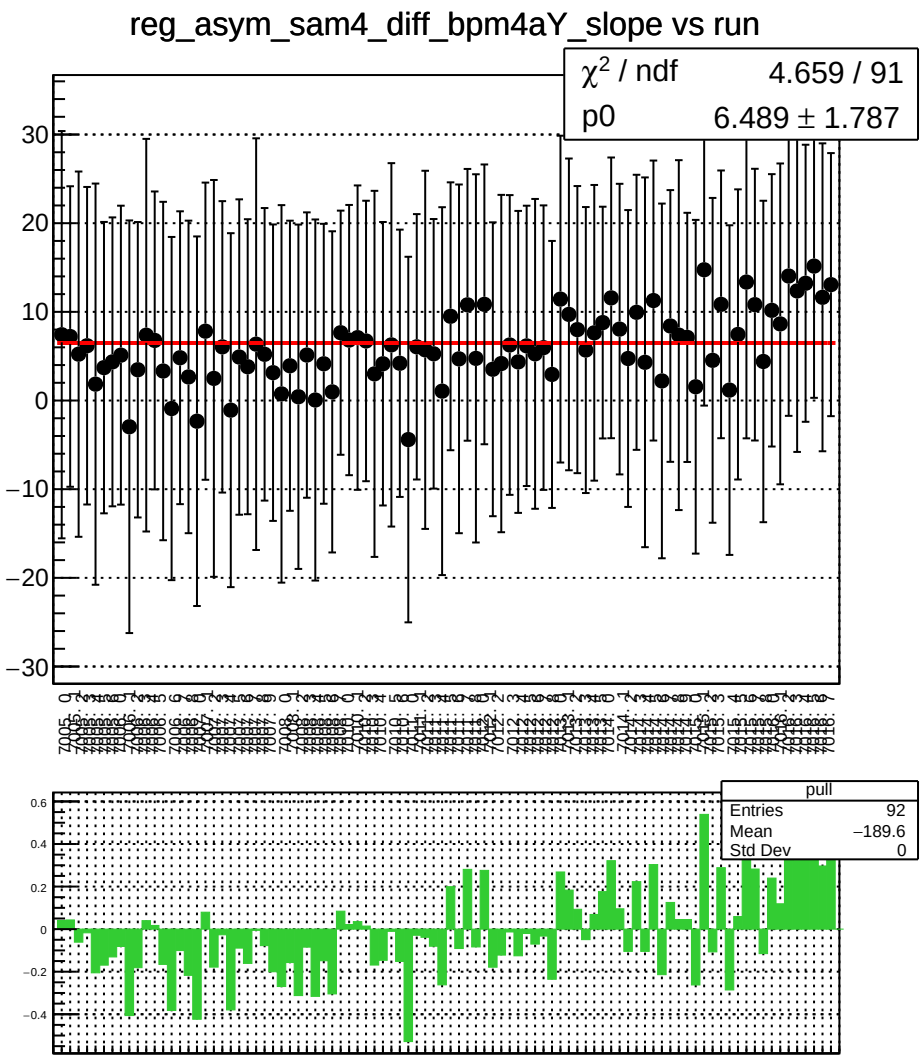

pull1D
Entries 92
Mean −0.009714
Std Dev 0.2772

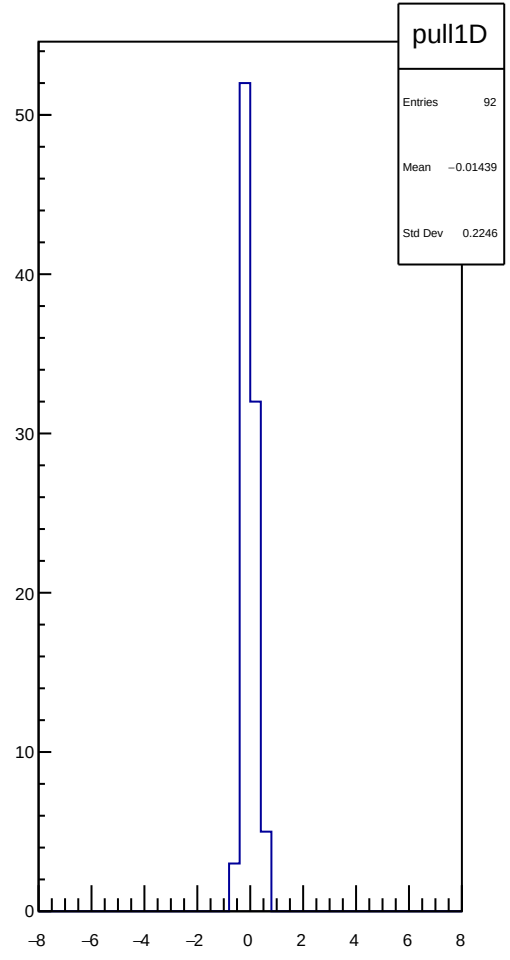

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 2.399 / 91
p0 33.38 ± 0.8774
pull
Entries 92
Mean −75.94
Std Dev 0
pull1D
Entries 92
Mean 0.007511
Std Dev 0.1613

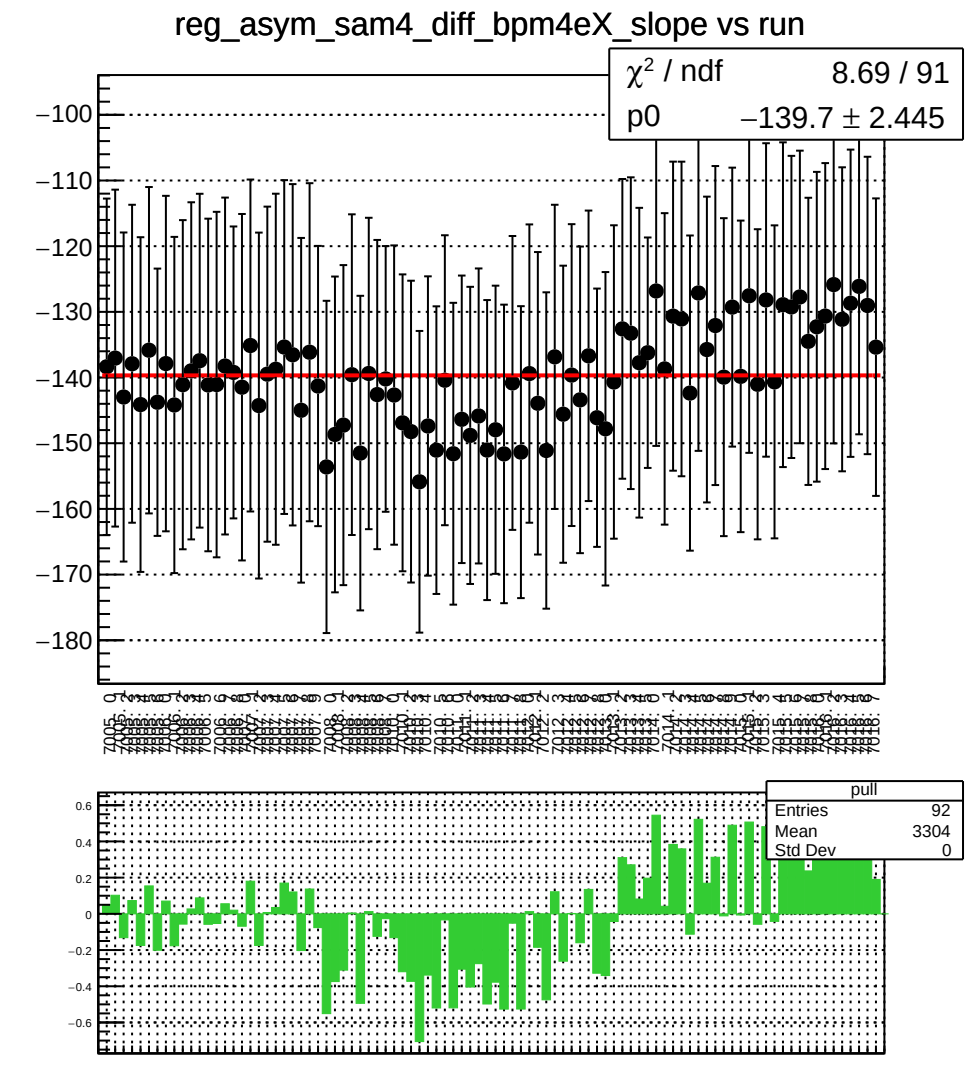

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 4.976 / 91
p0 0.3565 ± 0.03977
pull
Entries 92
Mean −4054
Std Dev 0

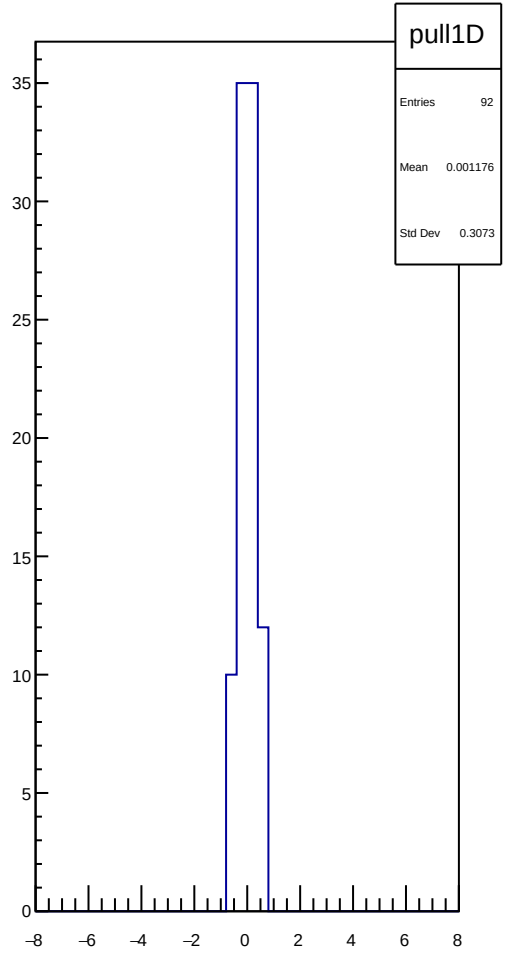

pull1D
Entries 92
Mean 0.001151
Std Dev 0.2326

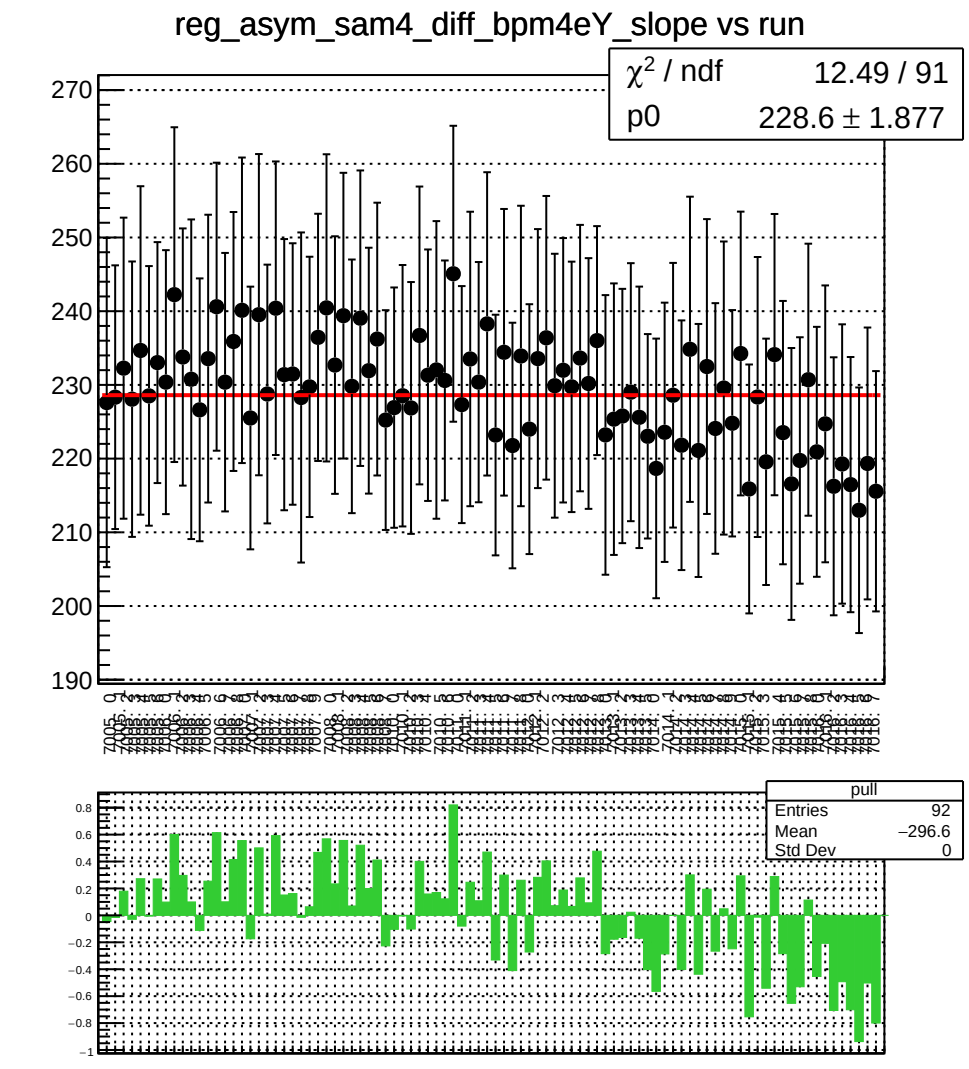

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 6.949 / 91
p0 −53.36 ± 2.641
pull
Entries 92
Mean 2306
Std Dev 0
pull1D
Entries 92
Mean −0.001436
Std Dev 0.2748

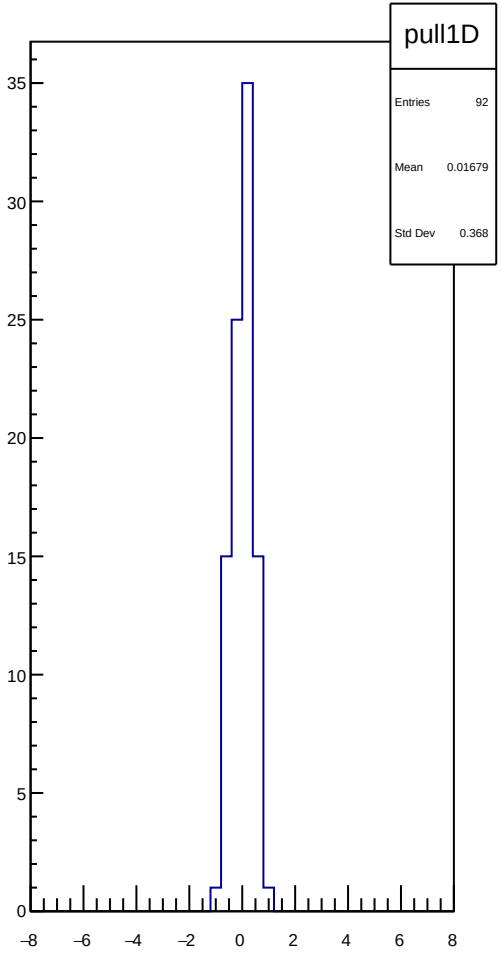

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 4.659 / 91
p0 6.489 ± 1.787
pull
Entries 92
Mean −189.6
Std Dev 0

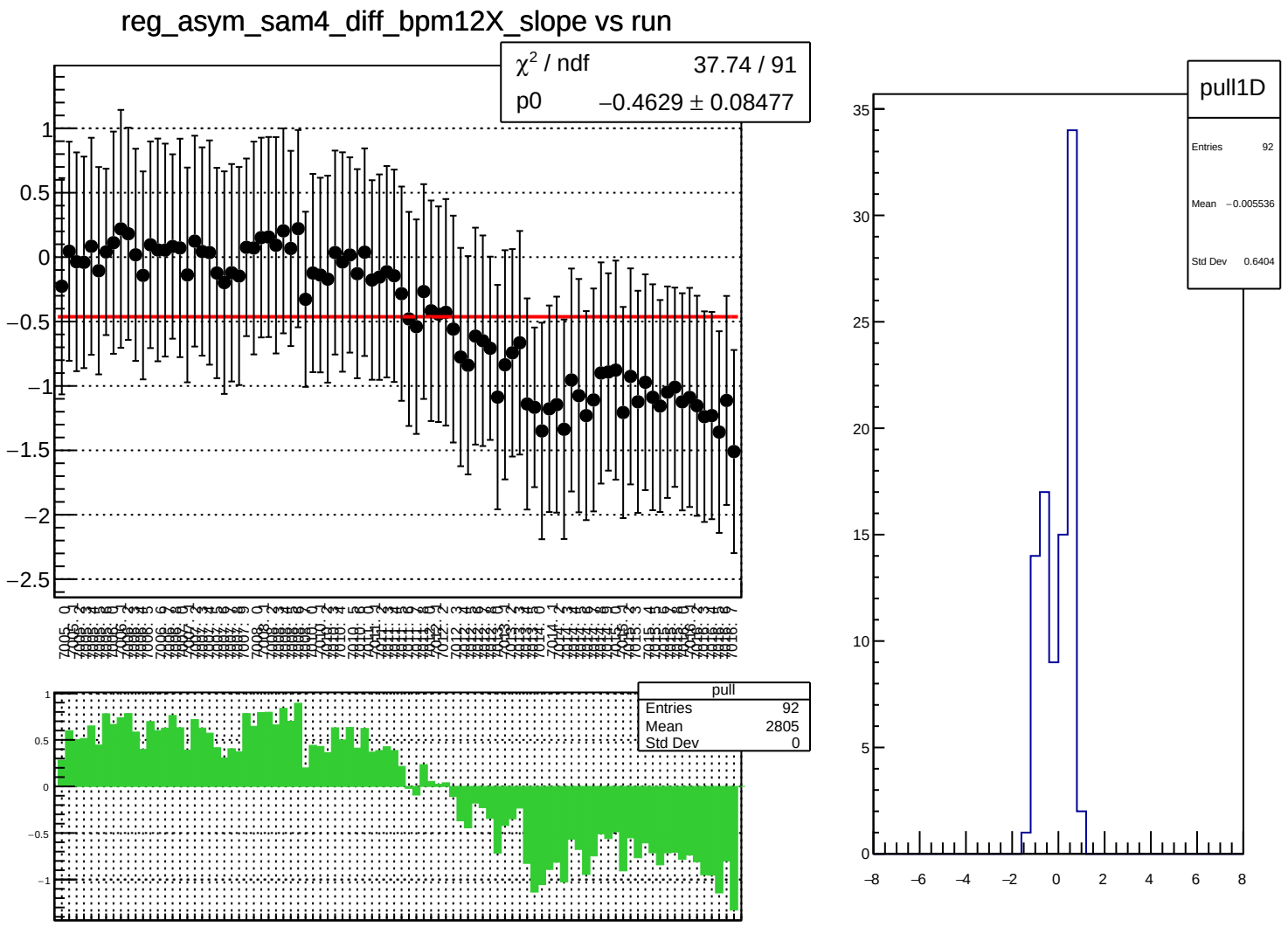

pull1D
Entries 92
Mean −0.01439
Std Dev 0.2246

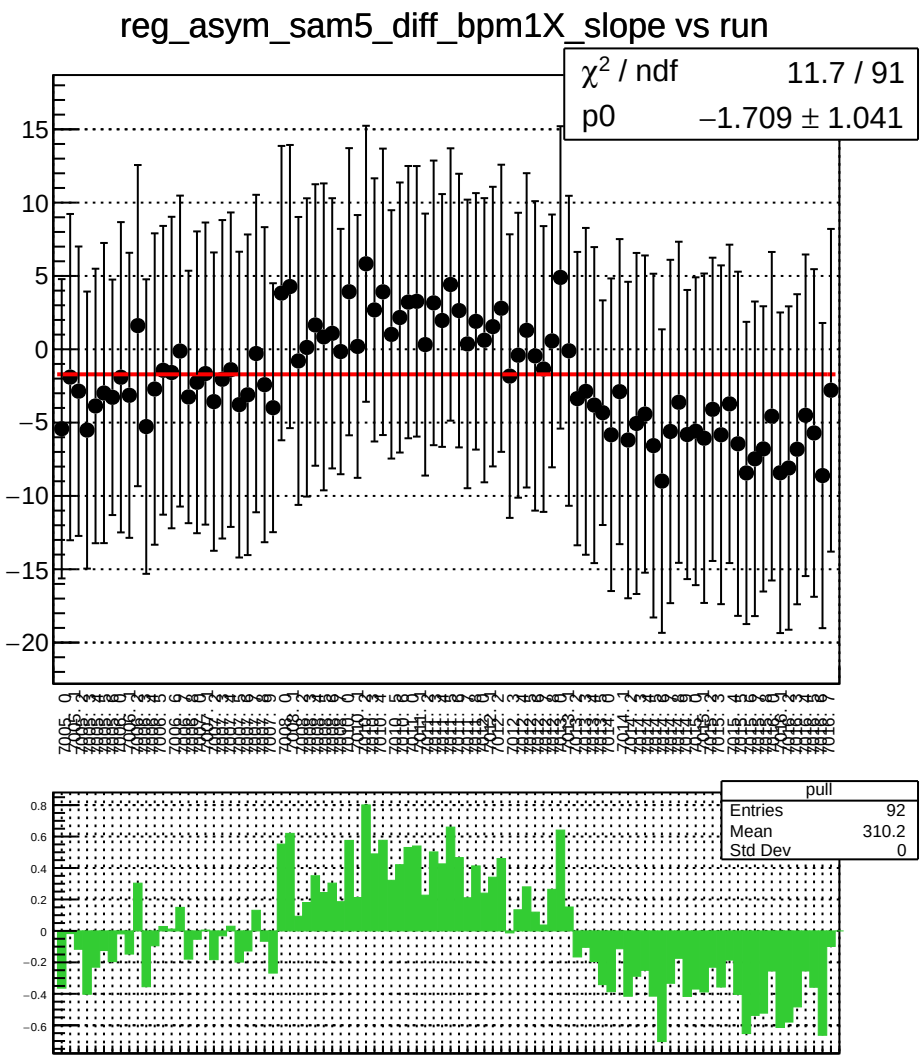

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 8.69 / 91
p0 −139.7 ± 2.445
pull
Entries 92
Mean 3304
Std Dev 0

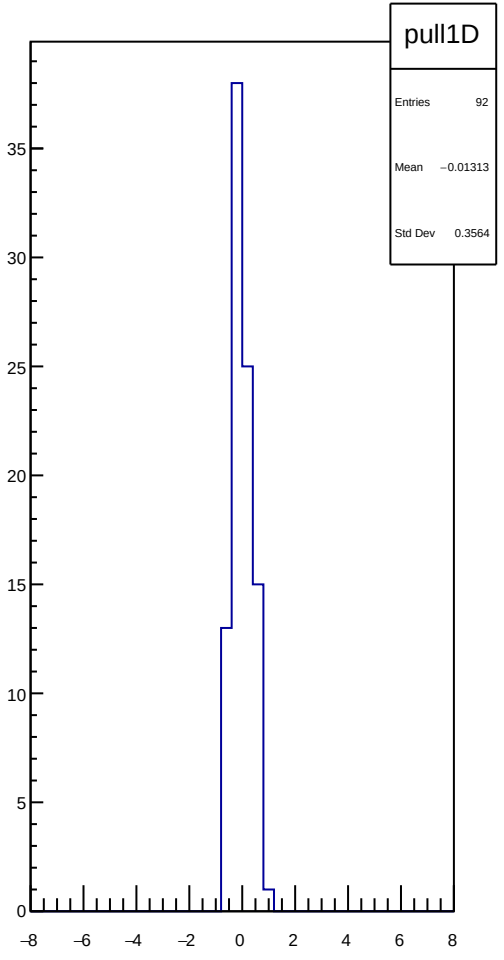

pull1D
Entries 92
Mean 0.001176
Std Dev 0.3073

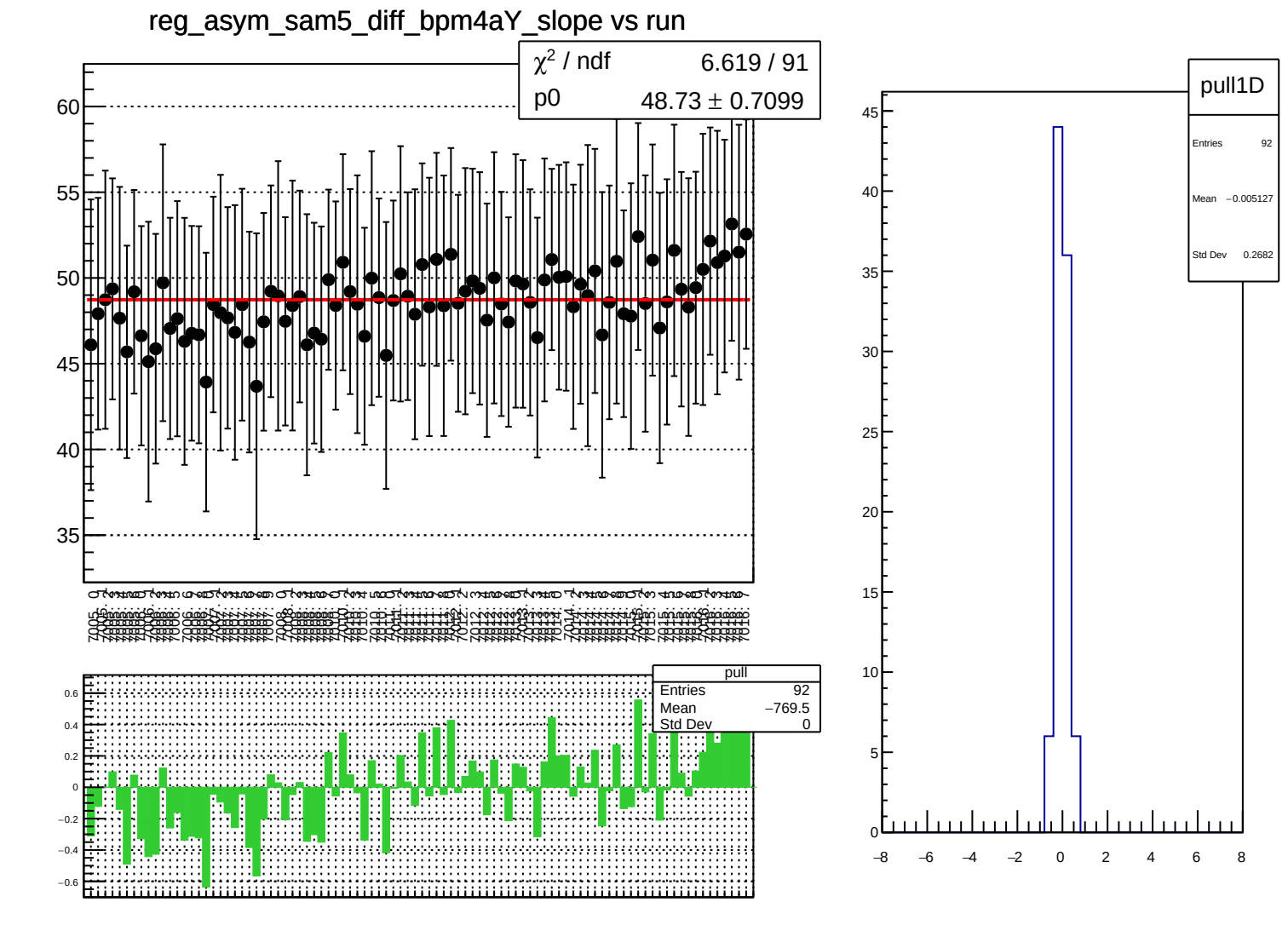

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 12.49 / 91
p0 228.6 ± 1.877
pull
Entries 92
Mean −296.6
Std Dev 0

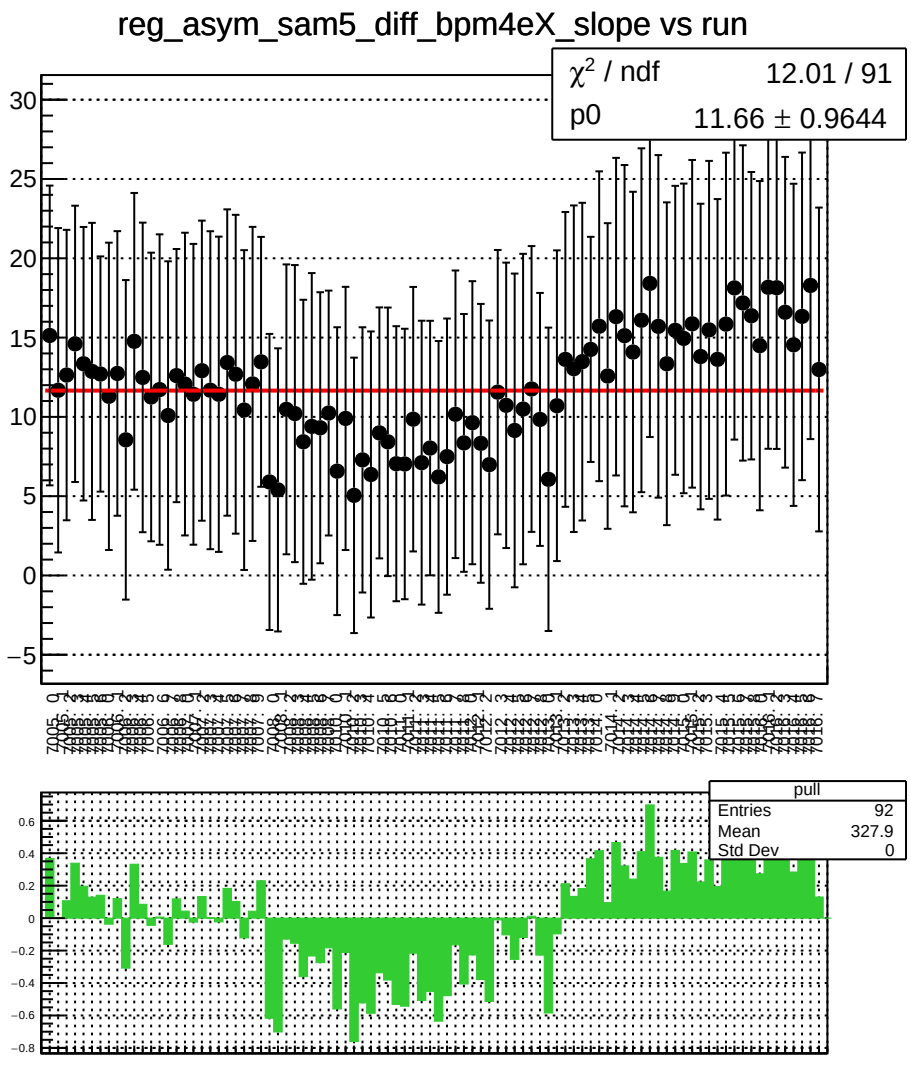

pull1D
Entries 92
Mean 0.01679
Std Dev 0.368

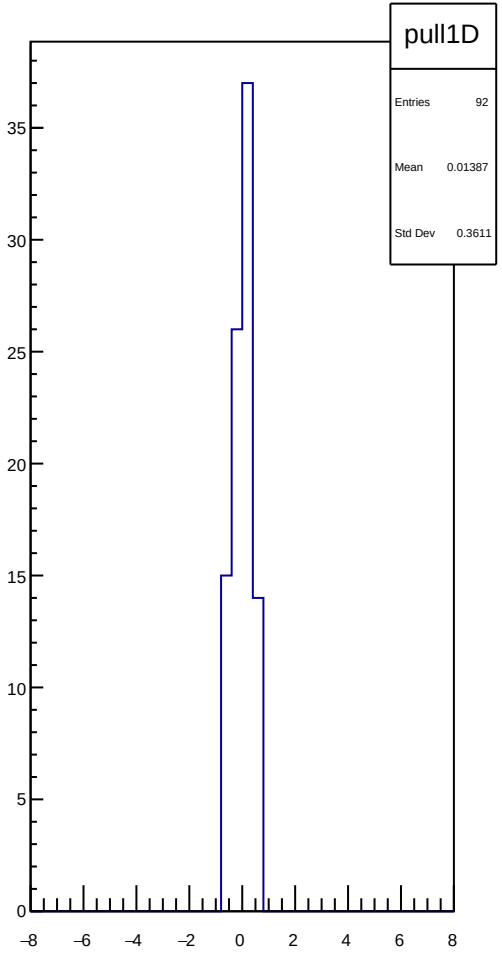

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 37.74 / 91
p0 −0.4629 ± 0.08477
pull
Entries 92
Mean 2805
Std Dev 0
pull1D
Entries 92
Mean −0.005536
Std Dev 0.6404

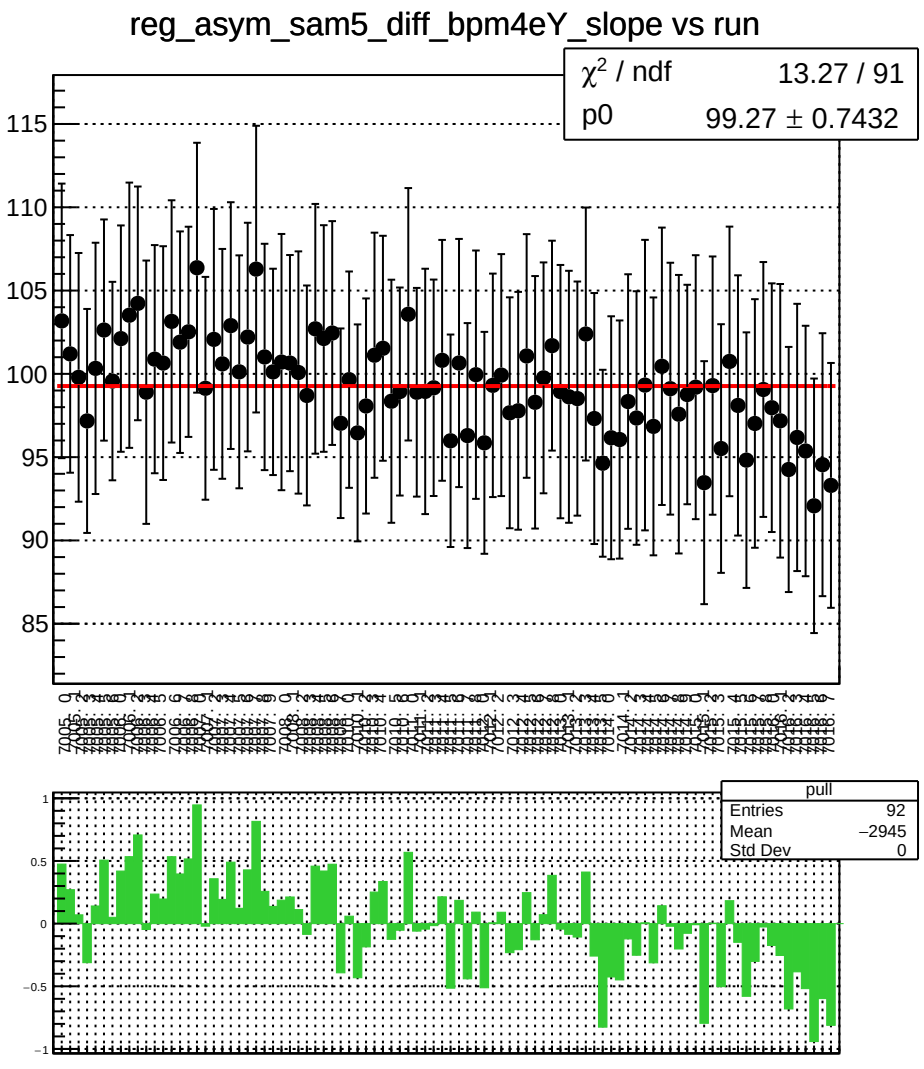

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 11.7 / 91
p0 −1.709 ± 1.041
pull
Entries 92
Mean 310.2
Std Dev 0

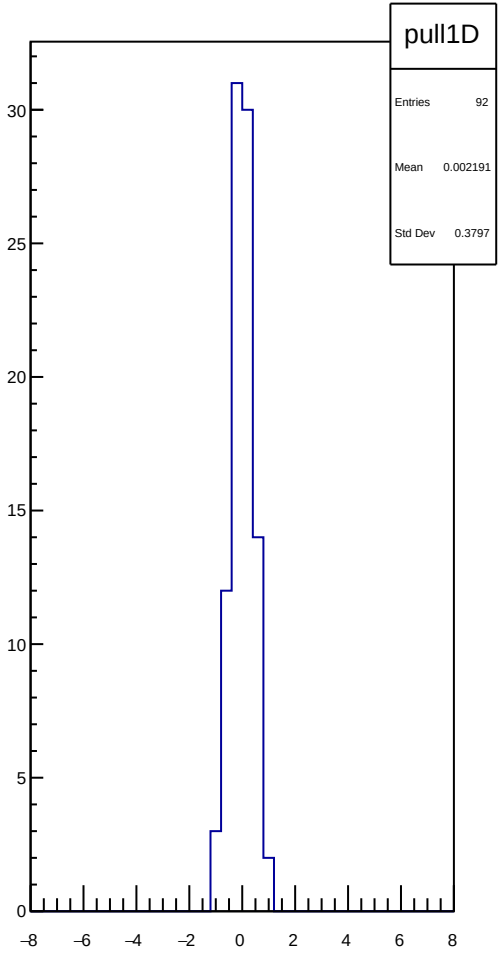

pull1D
Entries 92
Mean −0.01313
Std Dev 0.3564

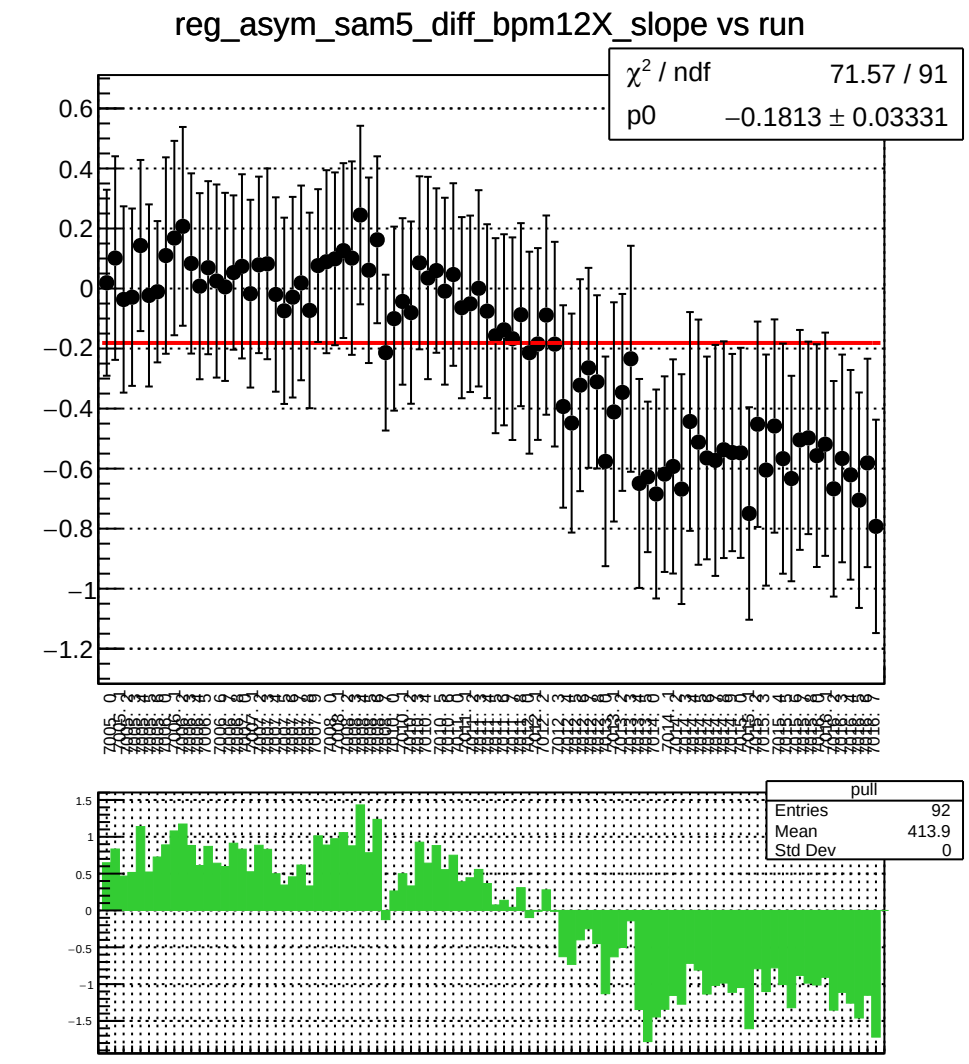

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 6.619 / 91
p0 48.73 ± 0.7099
pull
Entries 92
Mean −769.5
Std Dev 0
pull1D
Entries 92
Mean −0.005127
Std Dev 0.2682

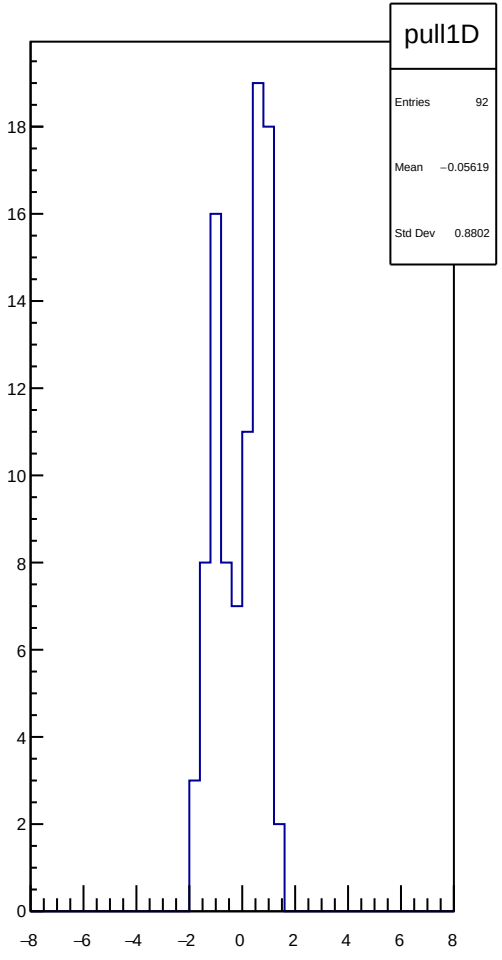

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 12.01 / 91
p0 11.66 ± 0.9644
pull
Entries 92
Mean 327.9
Std Dev 0

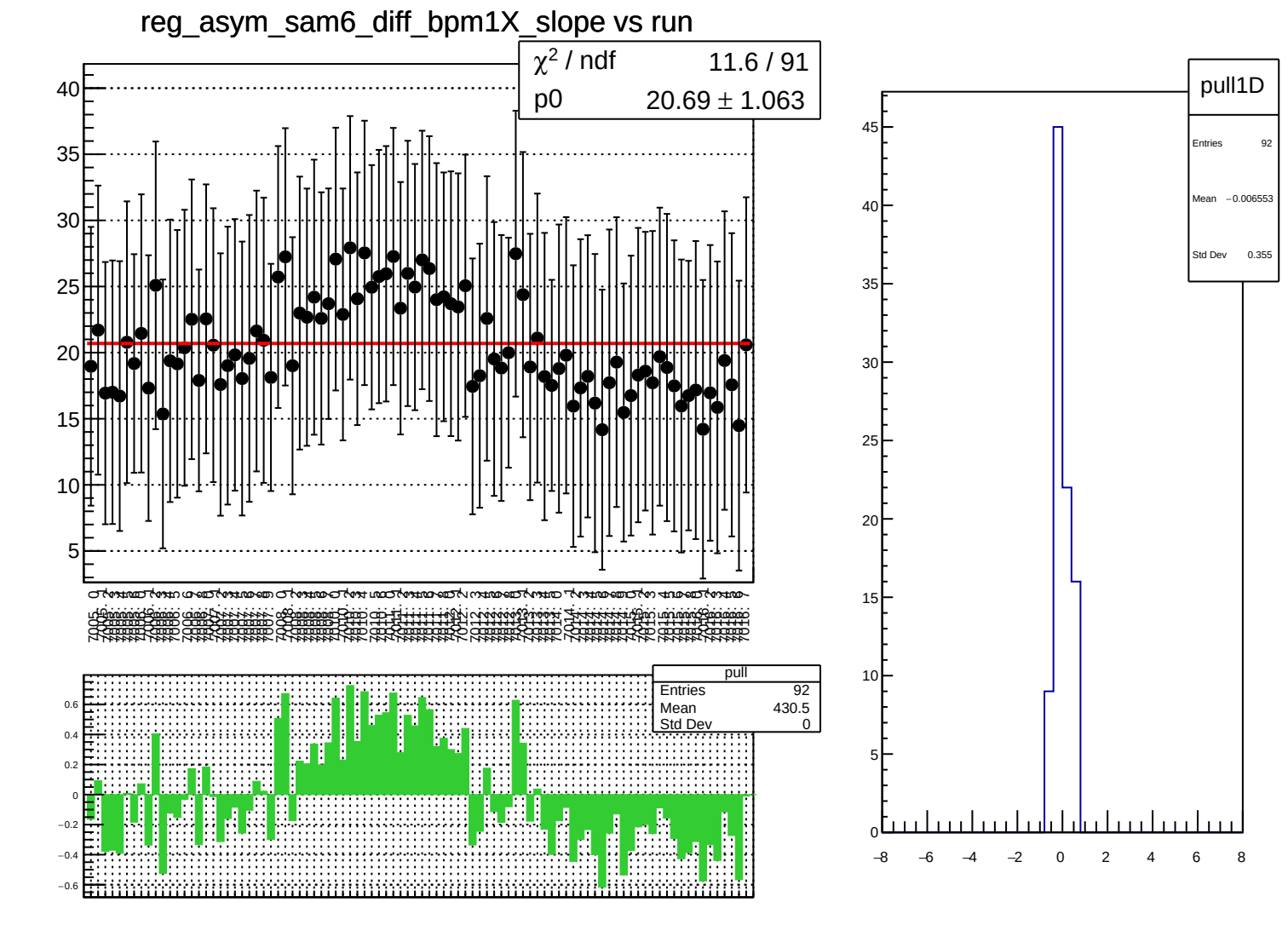

pull1D
Entries 92
Mean 0.01387
Std Dev 0.3611

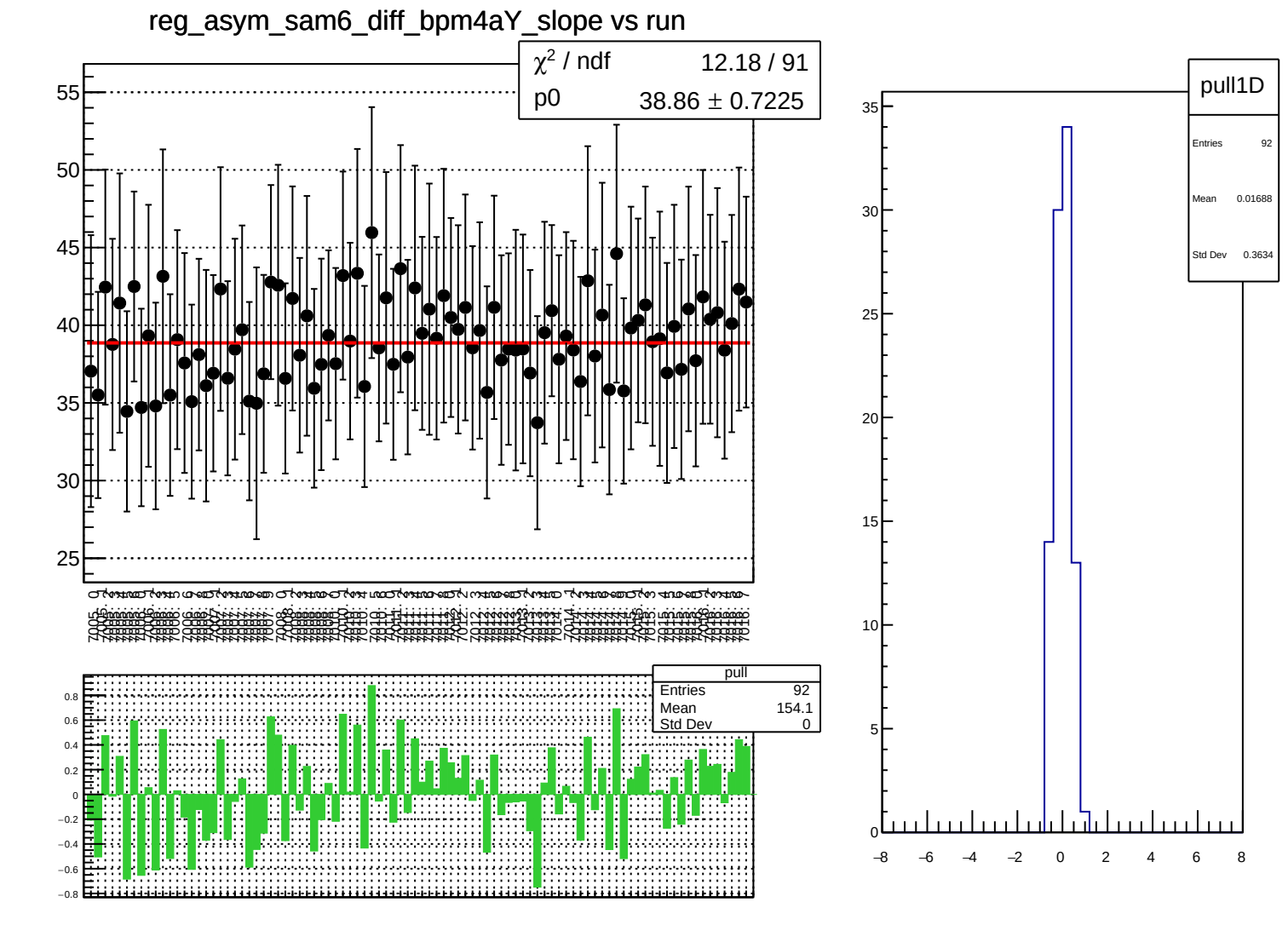

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 13.27 / 91
p0 99.27 ± 0.7432
pull
Entries 92
Mean −2945
Std Dev 0

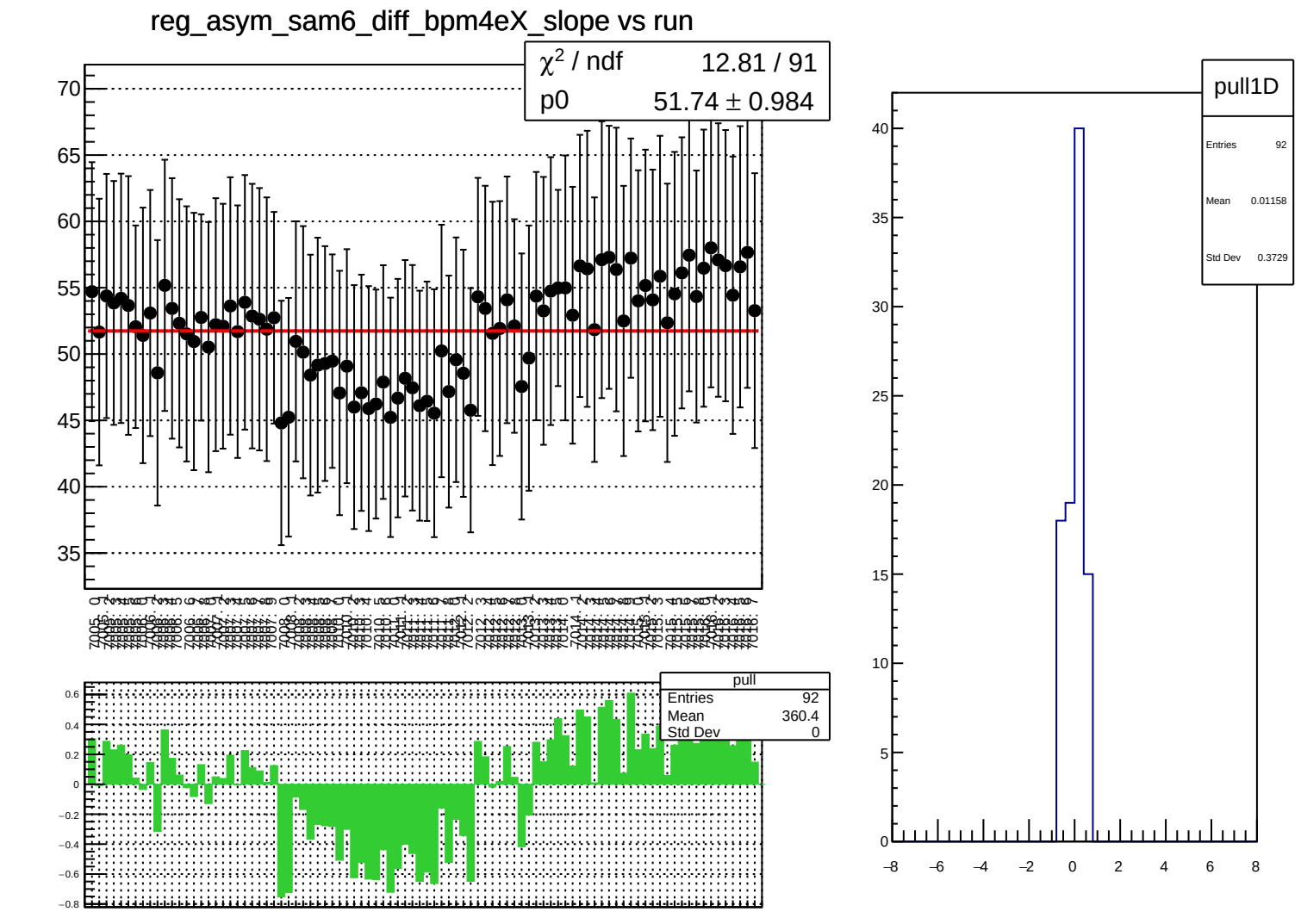

pull1D
Entries 92
Mean 0.002191
Std Dev 0.3797

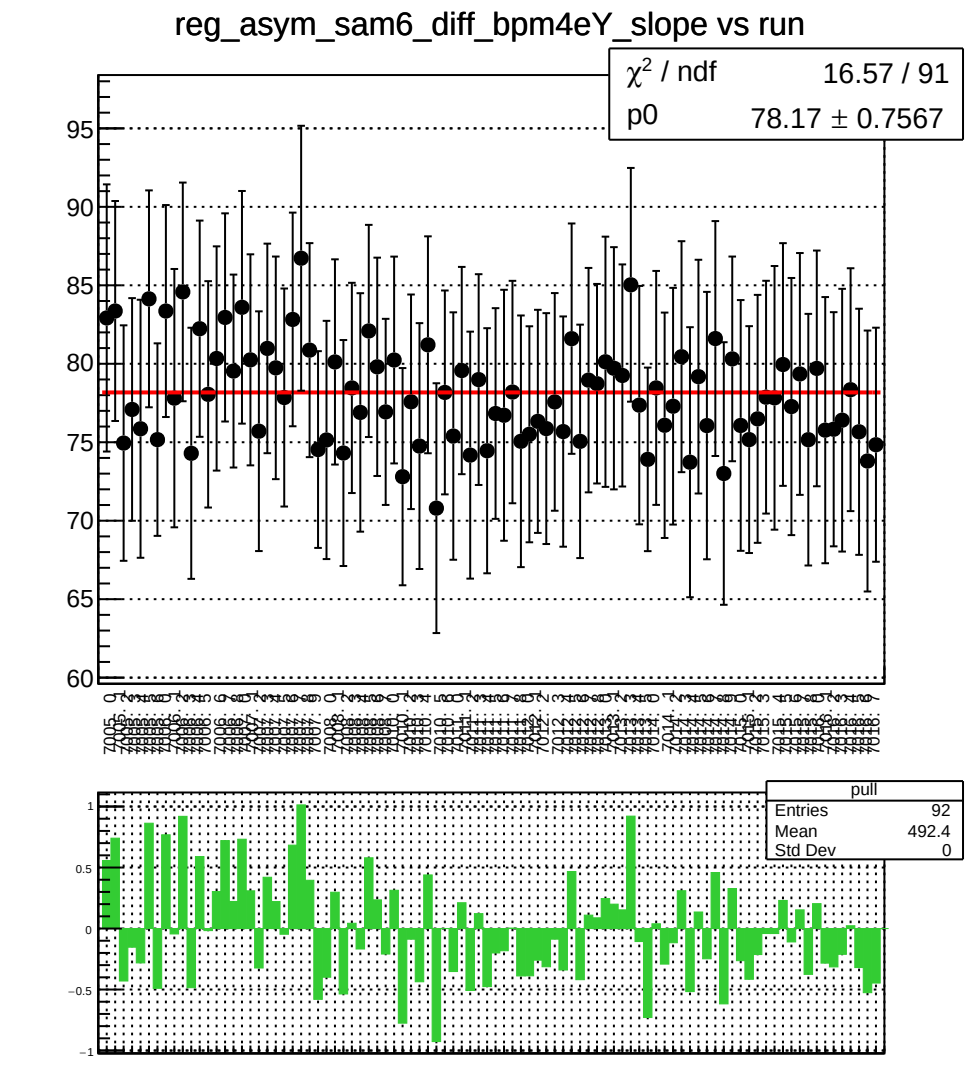

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 71.57 / 91
p0 −0.1813 ± 0.03331
pull
Entries 92
Mean 413.9
Std Dev 0

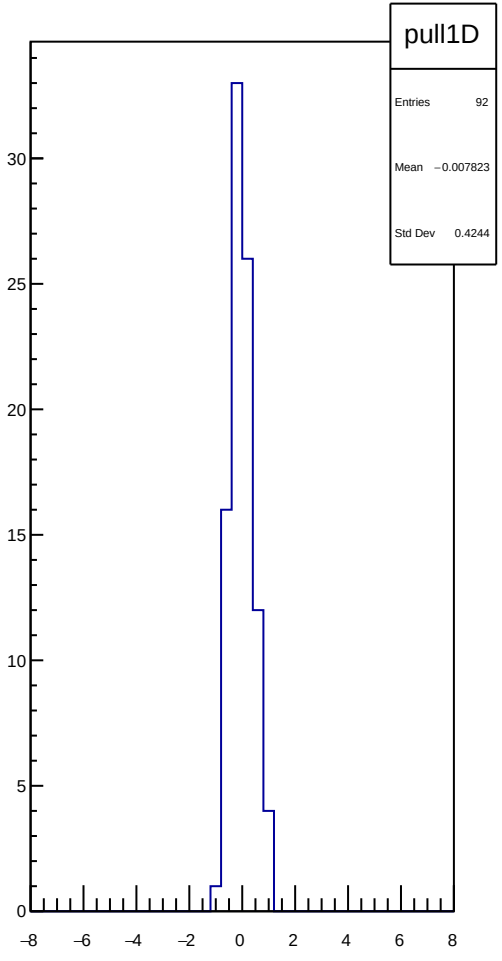

pull1D
Entries 92
Mean −0.05619
Std Dev 0.8802

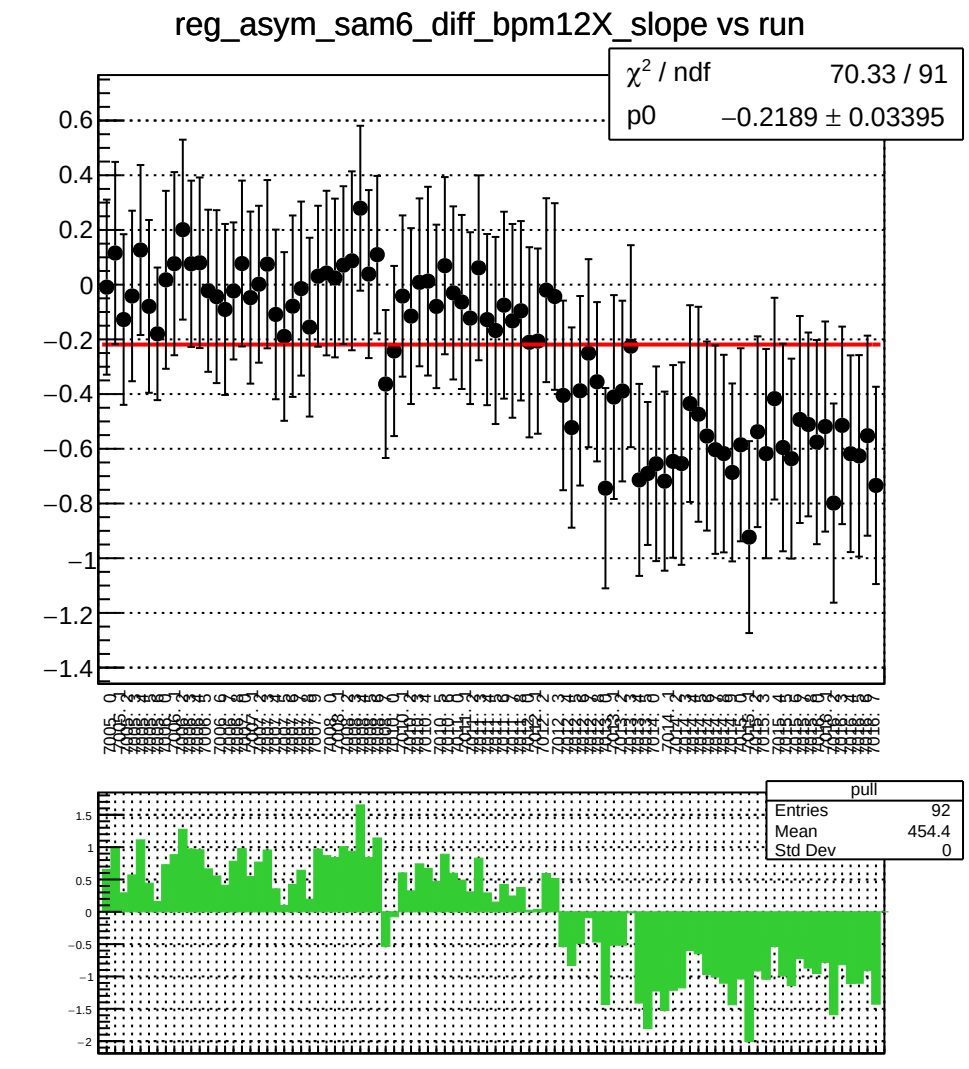

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 11.6 / 91
p0 20.69 ± 1.063
pull
Entries 92
Mean 430.5
Std Dev 0
pull1D
Entries 92
Mean −0.006553
Std Dev 0.355

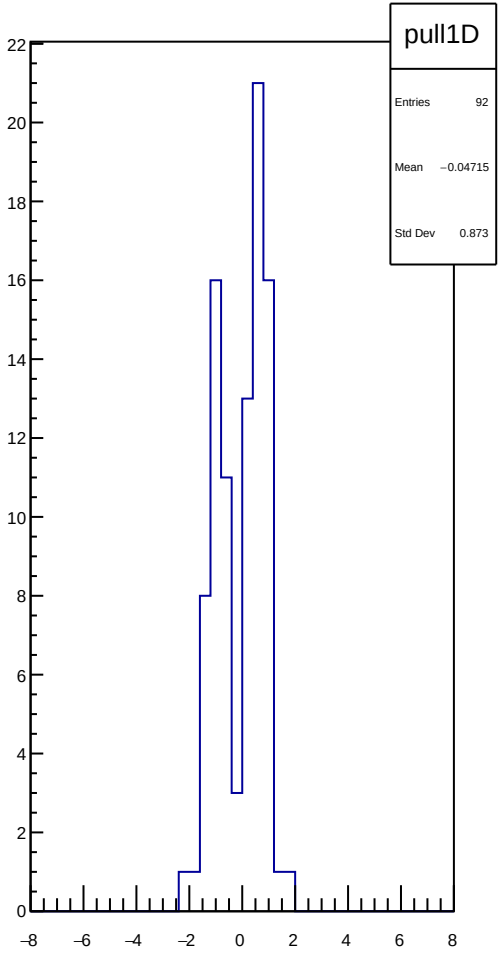

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 12.18 / 91
p0 38.86 ± 0.7225
pull
Entries 92
Mean 154.1
Std Dev 0
pull1D
Entries 92
Mean 0.01688
Std Dev 0.3634

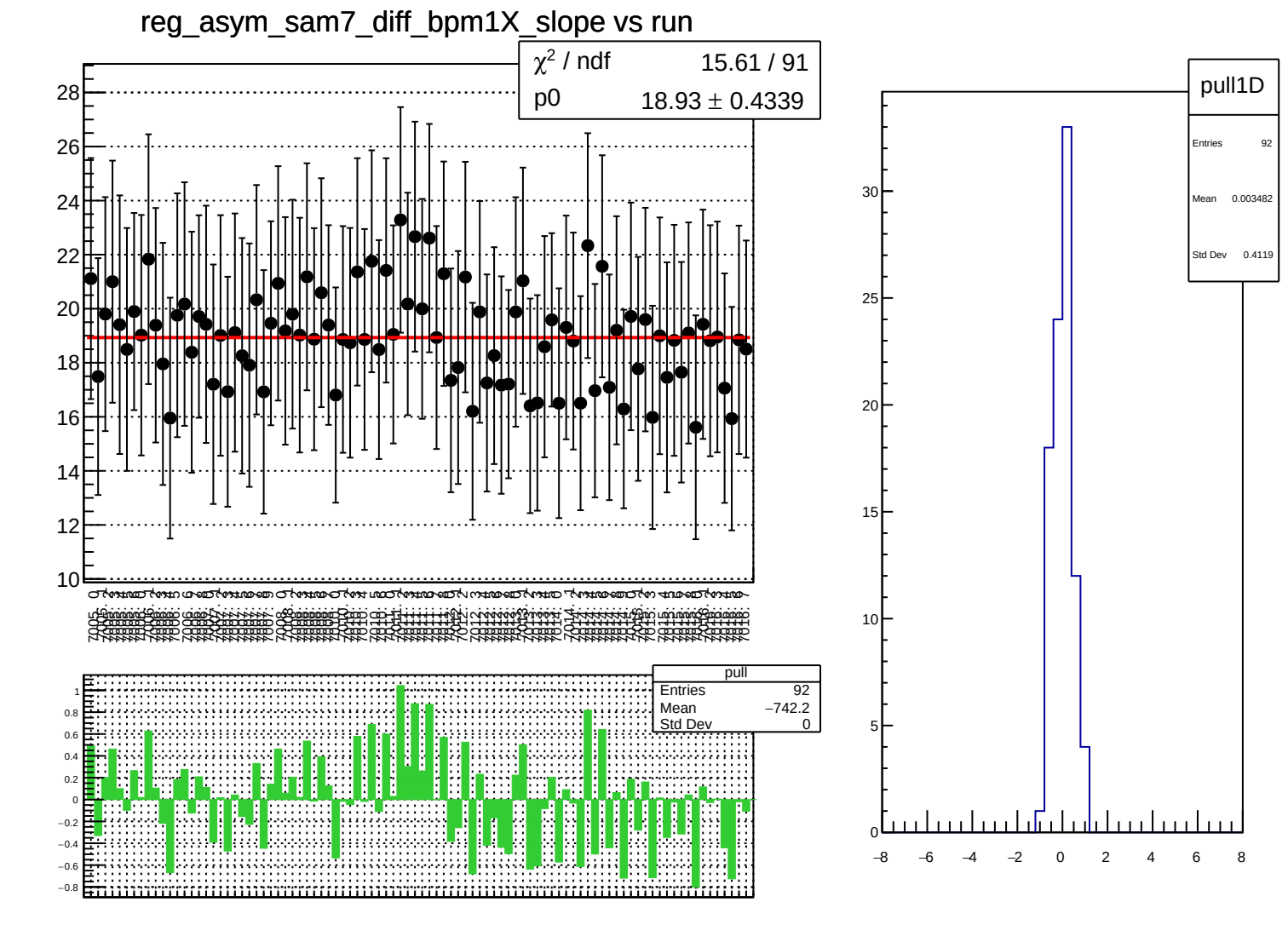

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 12.81 / 91
p0 51.74 ± 0.984
pull
Entries 92
Mean 360.4
Std Dev 0
pull1D
Entries 92
Mean 0.01158
Std Dev 0.3729

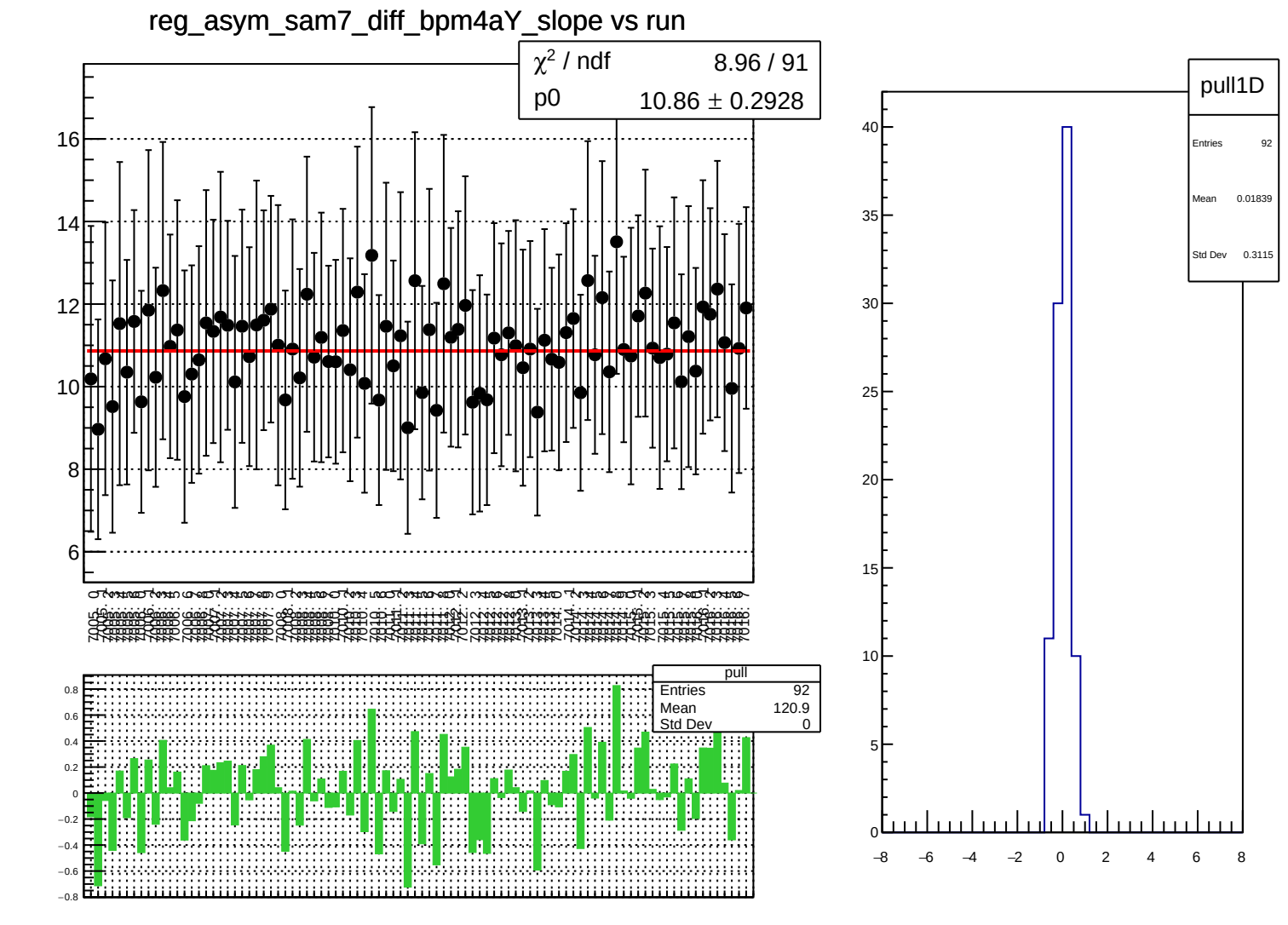

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 16.57 / 91
p0 78.17 ± 0.7567
pull
Entries 92
Mean 492.4
Std Dev 0

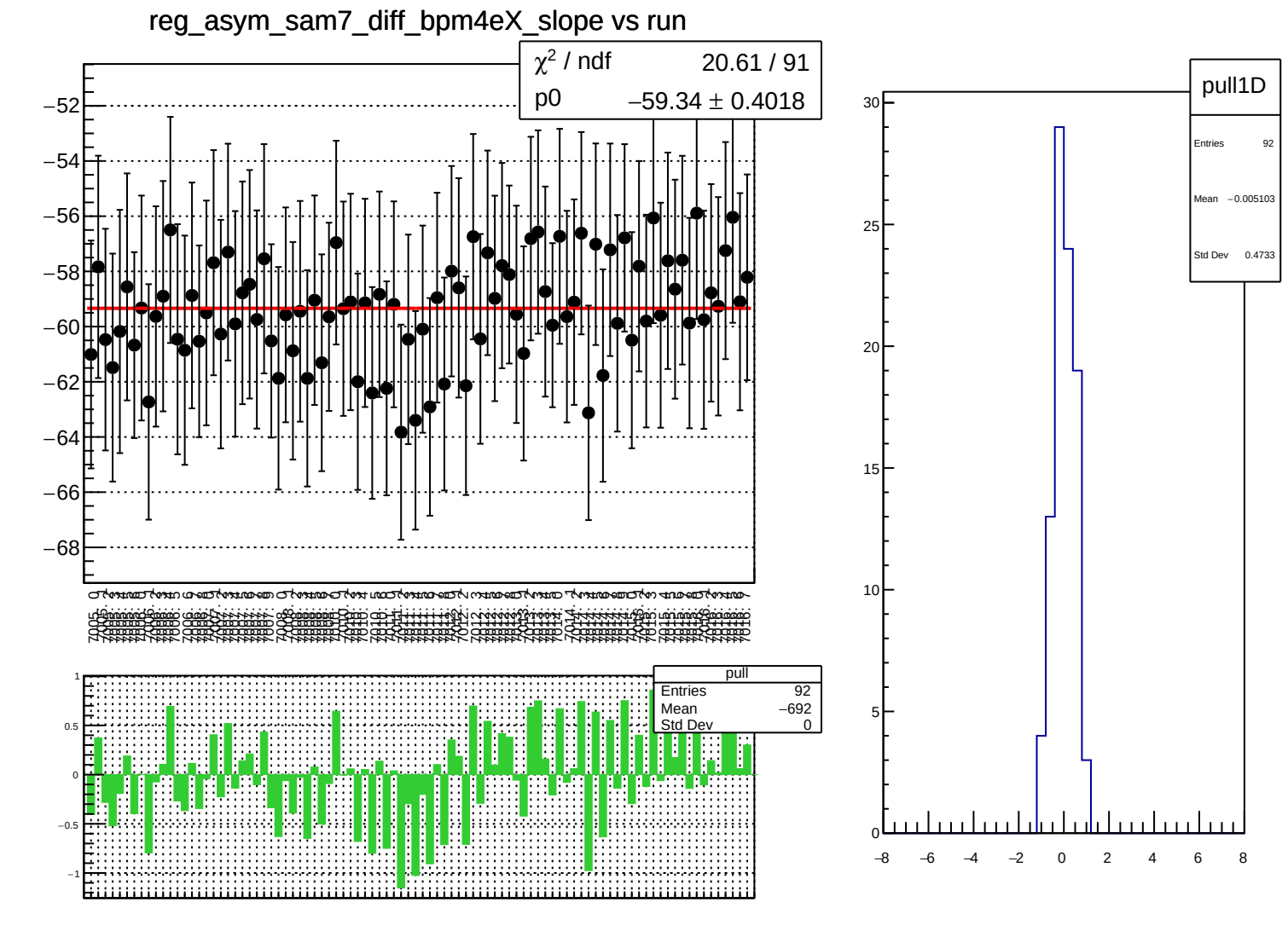

pull1D
Entries 92
Mean −0.007823
Std Dev 0.4244

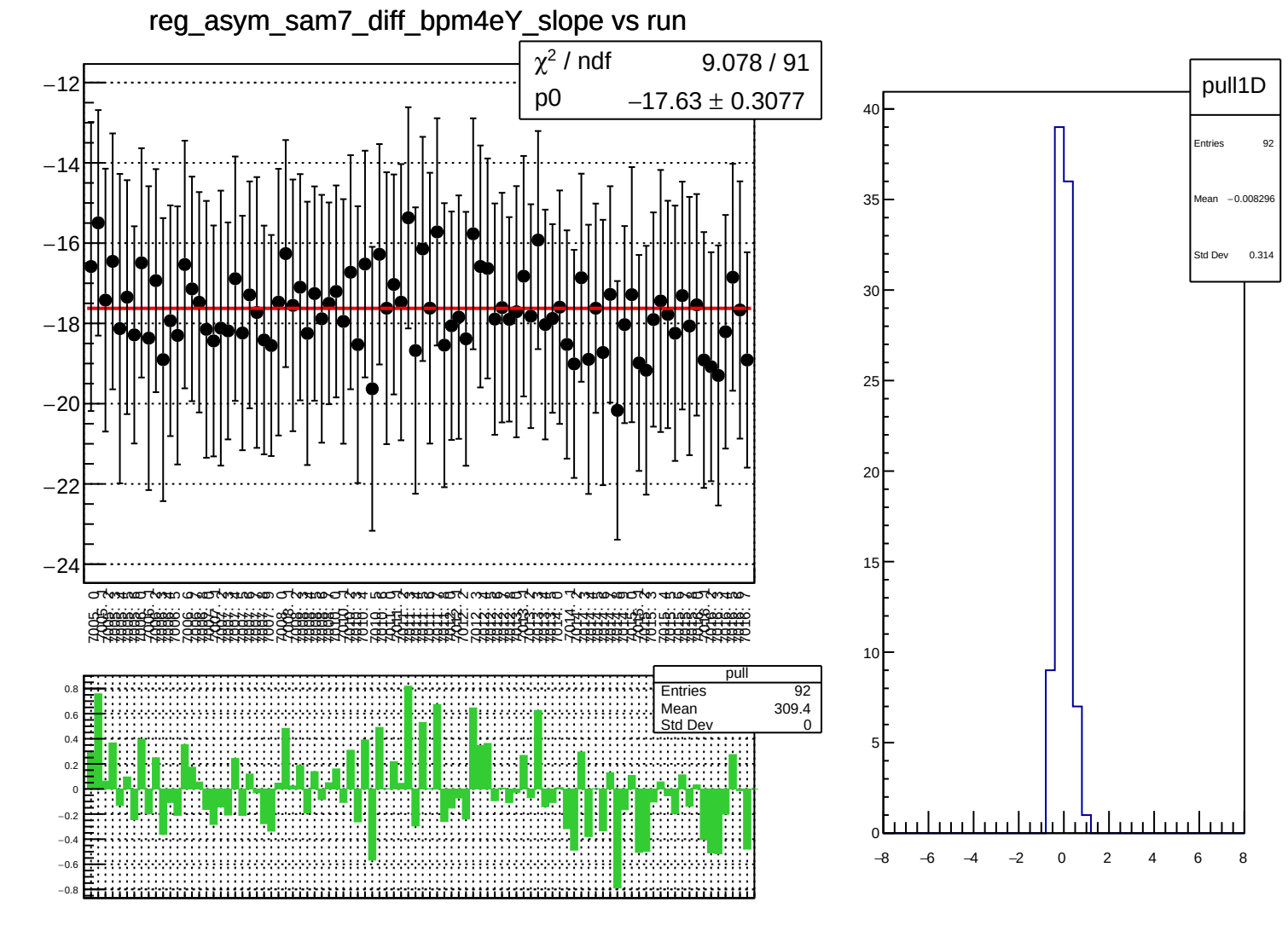

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 70.33 / 91
p0 −0.2189 ± 0.03395
pull
Entries 92
Mean 454.4
Std Dev 0

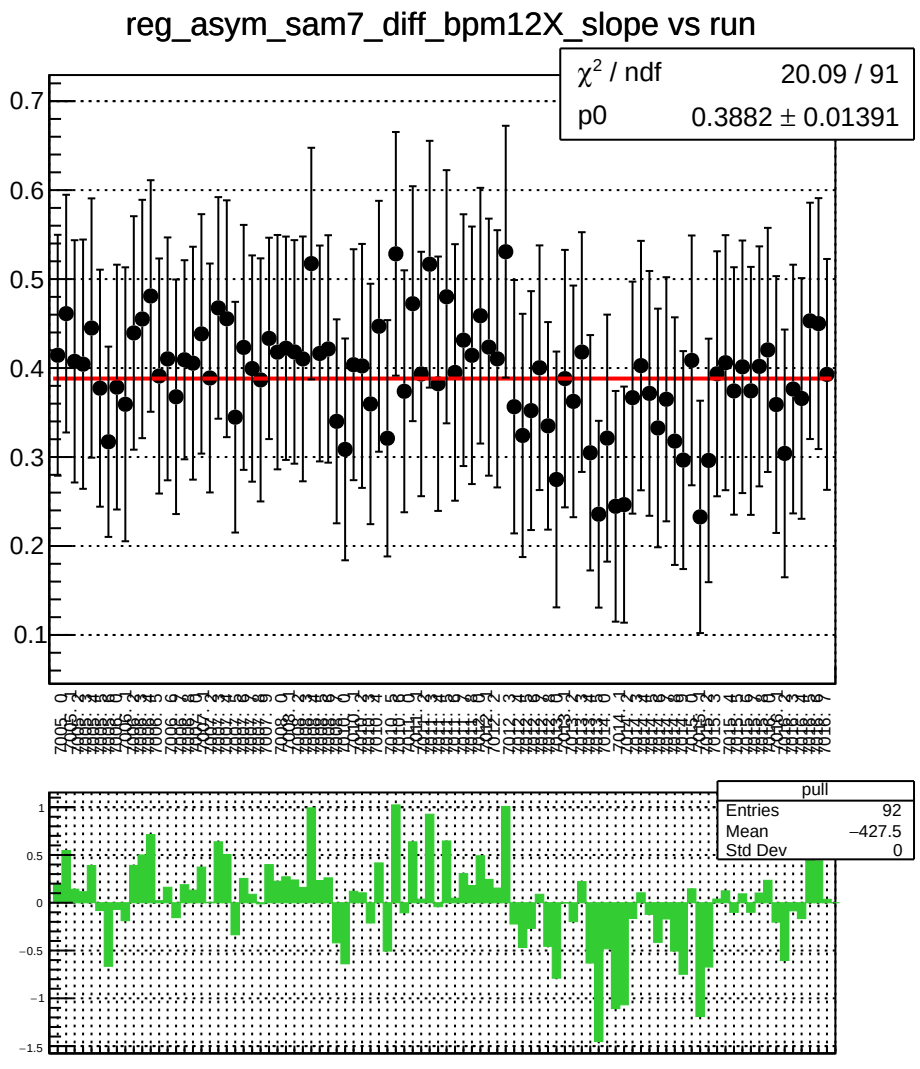

pull1D
Entries 92
Mean −0.04715
Std Dev 0.873

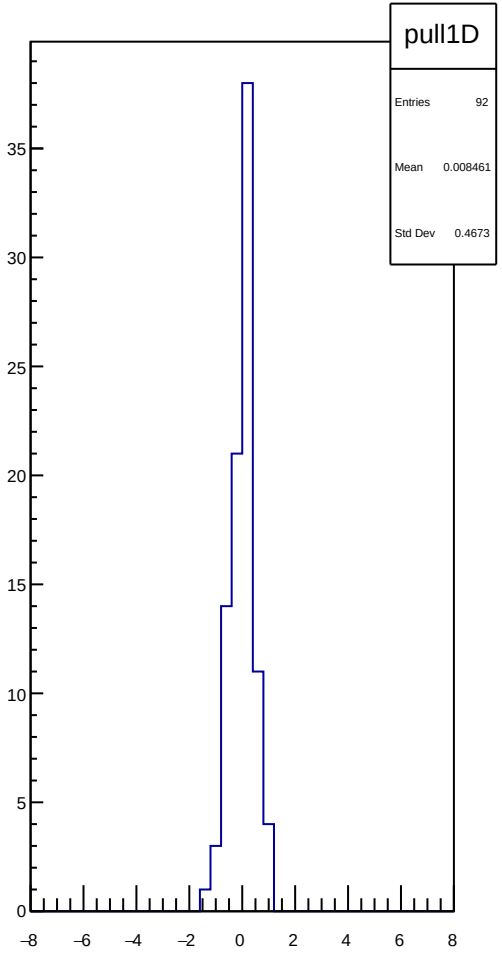

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 15.61 / 91
p0 18.93 ± 0.4339
pull
Entries 92
Mean −742.2
Std Dev 0
pull1D
Entries 92
Mean 0.003482
Std Dev 0.4119

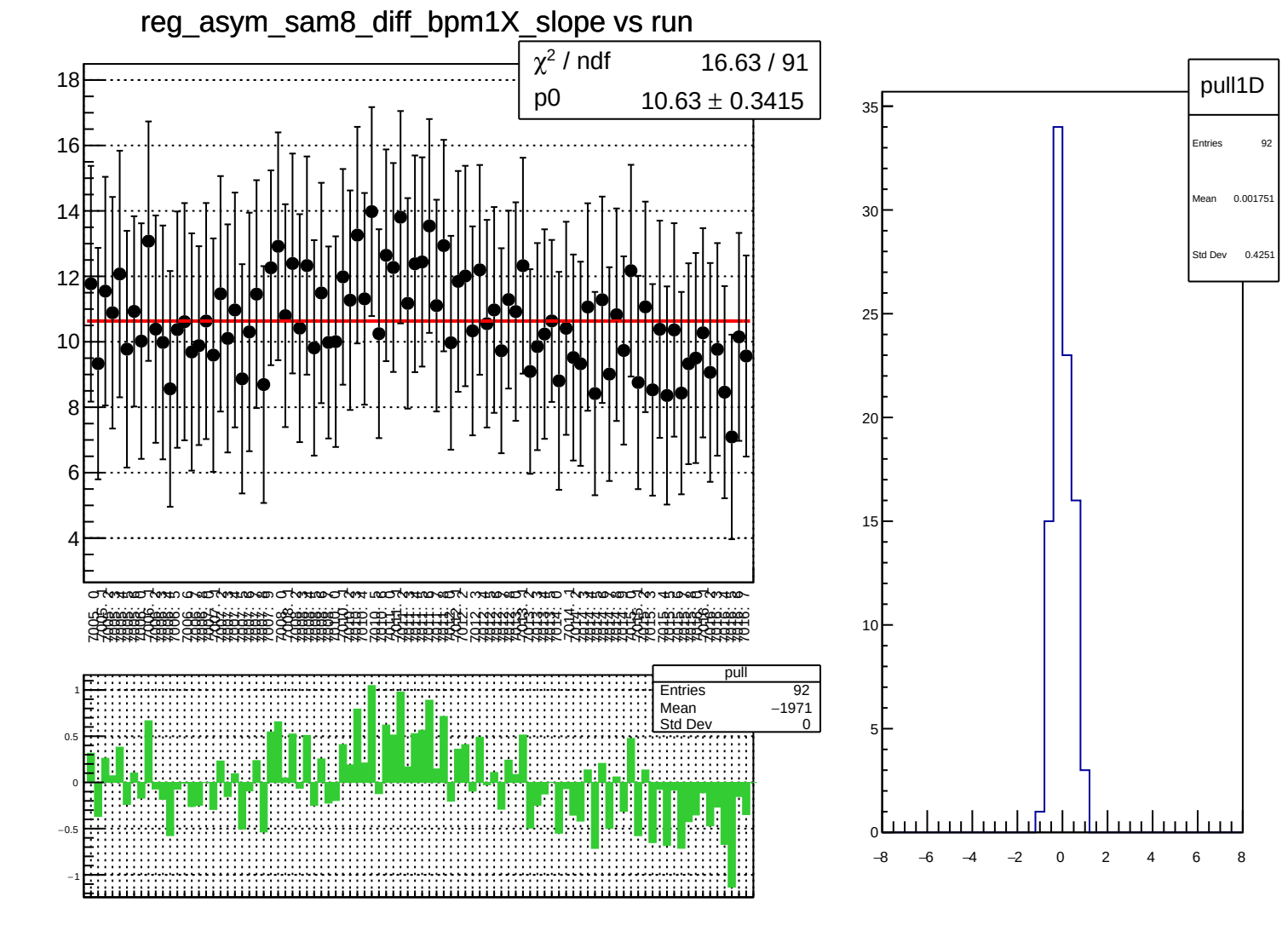

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 8.96 / 91
p0 10.86 ± 0.2928
pull
Entries 92
Mean 120.9
Std Dev 0
pull1D
Entries 92
Mean 0.01839
Std Dev 0.3115

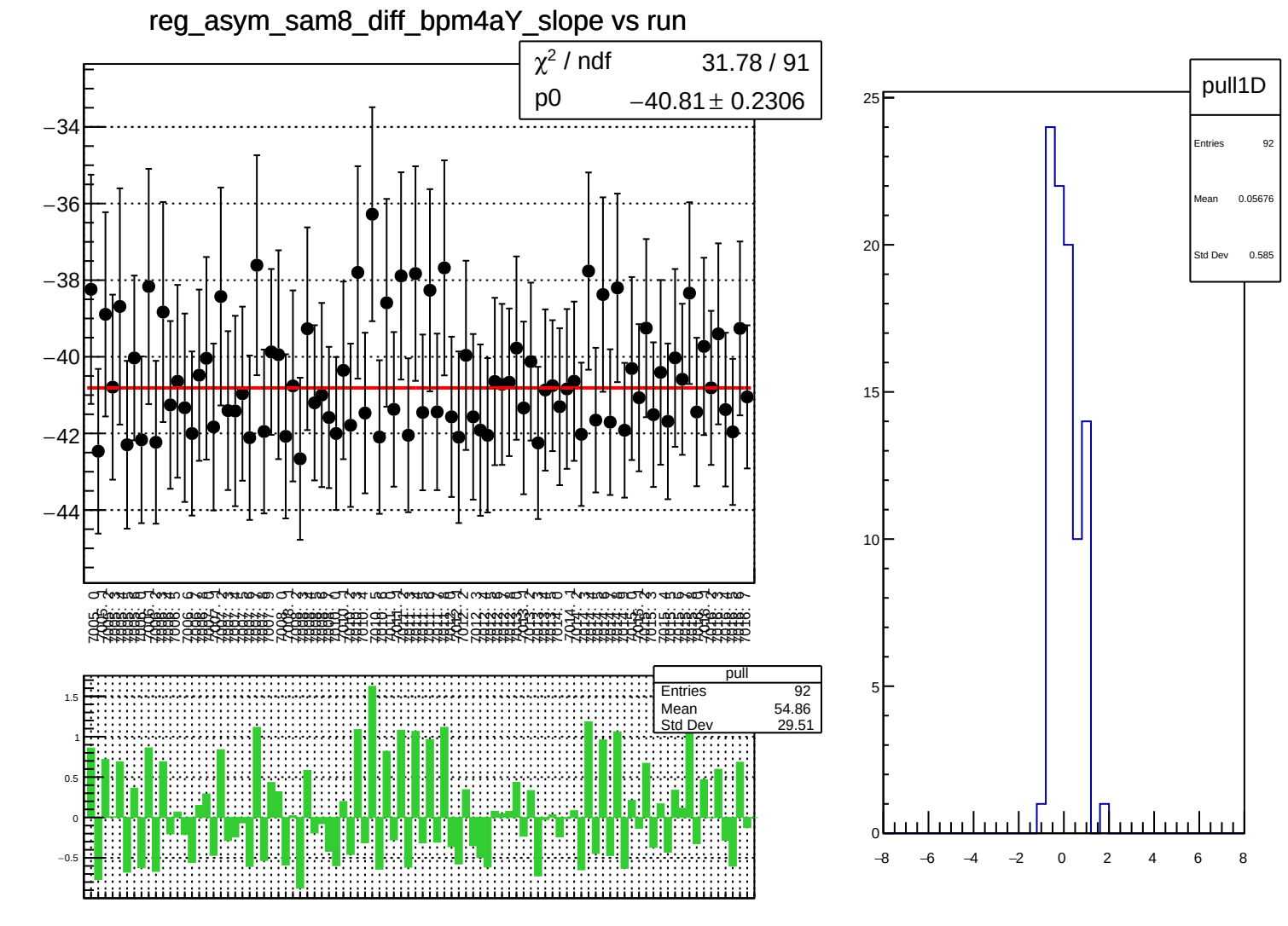

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 20.61 / 91
p0 −59.34 ± 0.4018
pull
Entries 92
Mean −692
Std Dev 0
pull1D
Entries 92
Mean −0.005103
Std Dev 0.4733

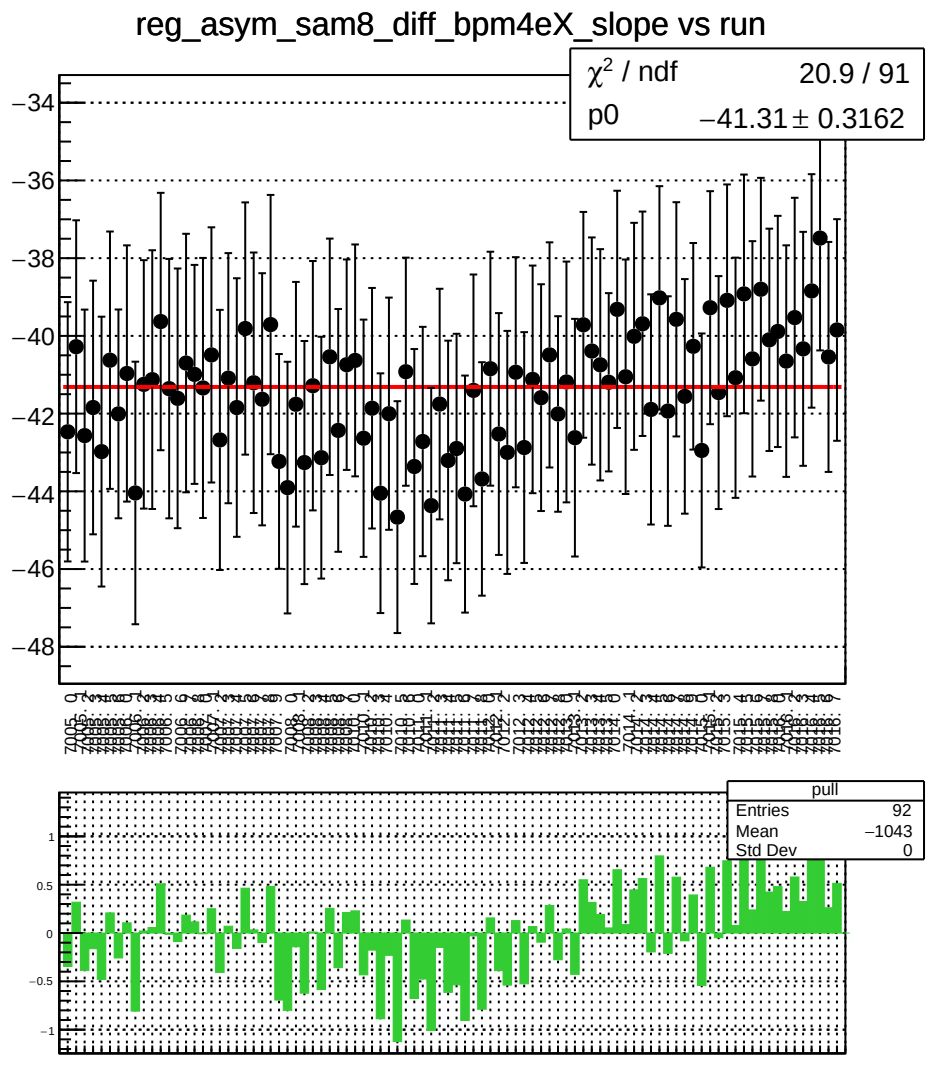

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 9.078 / 91
p0 −17.63 ± 0.3077
pull
Entries 92
Mean 309.4
Std Dev 0
pull1D
Entries 92
Mean −0.008296
Std Dev 0.314

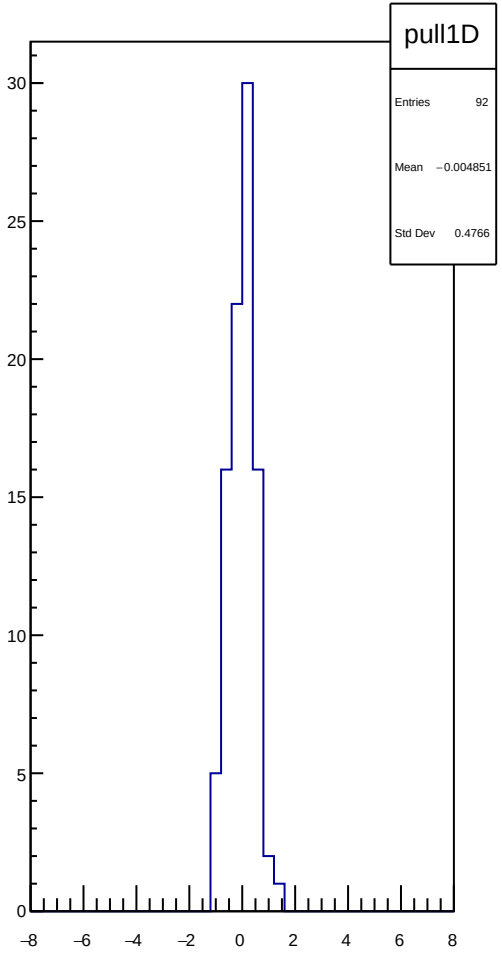

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 20.09 / 91
p0 0.3882 ± 0.01391
pull
Entries 92
Mean −427.5
Std Dev 0

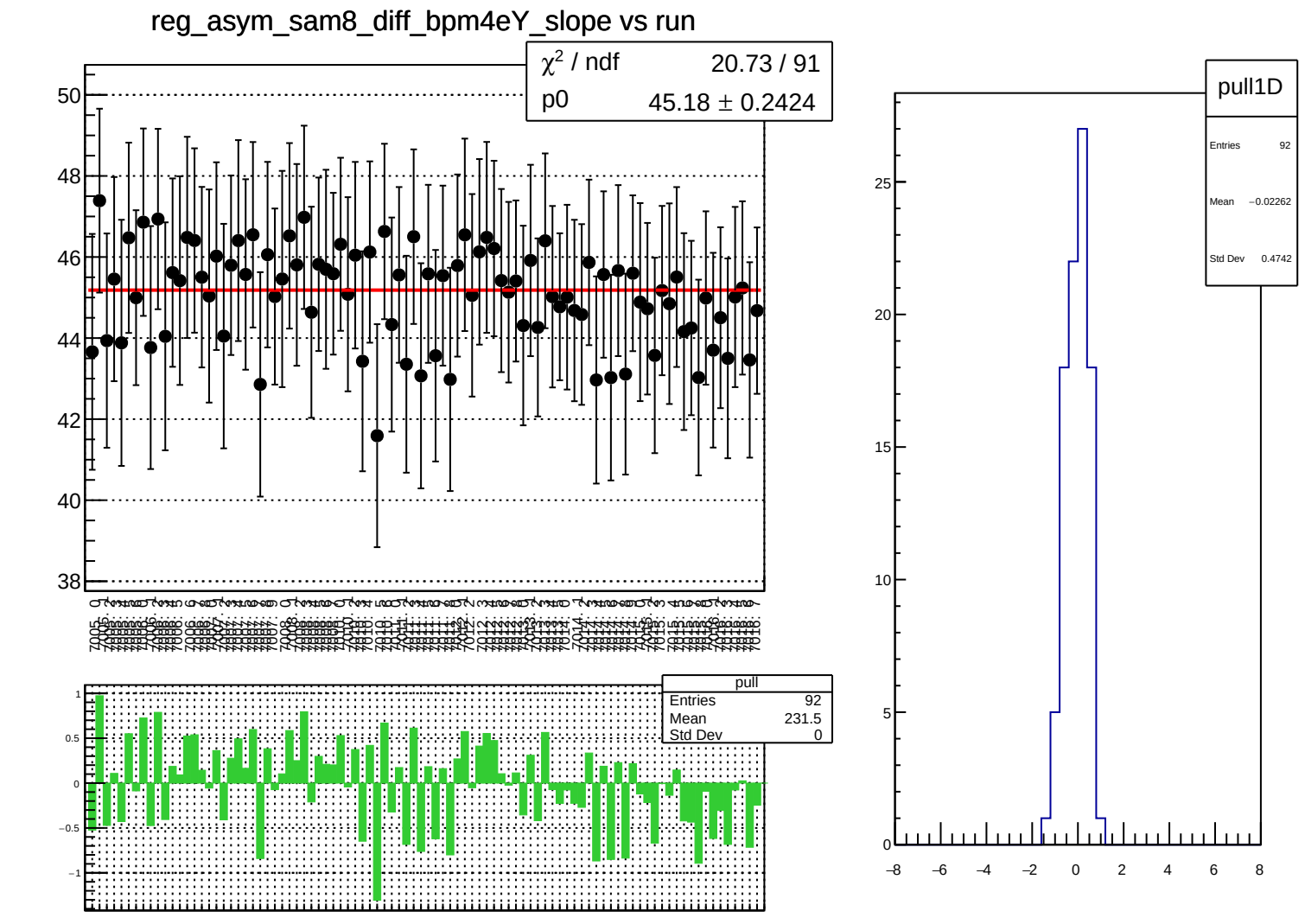

pull1D
Entries 92
Mean 0.008461
Std Dev 0.4673

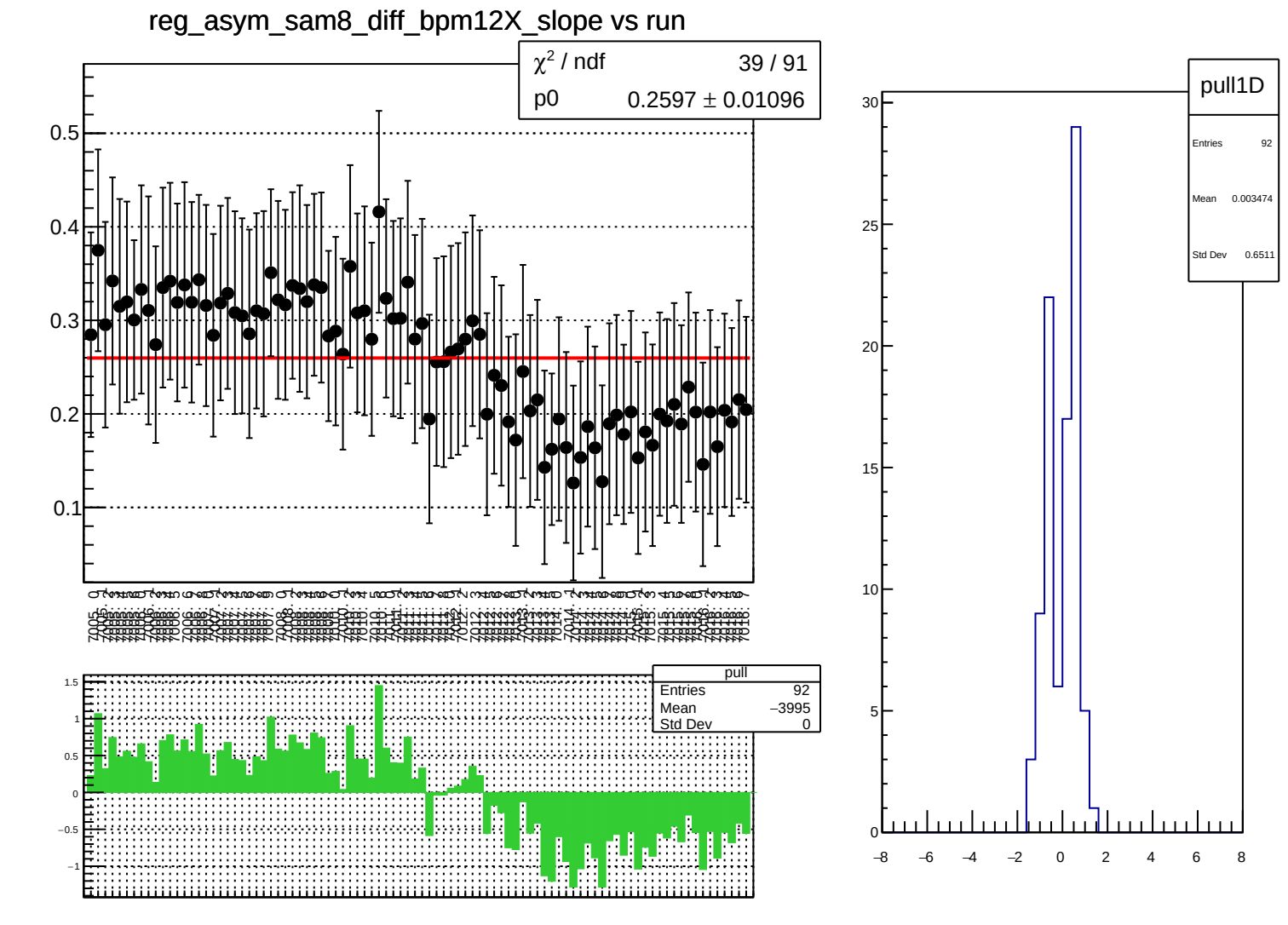

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 16.63 / 91
p0 10.63 ± 0.3415
pull
Entries 92
Mean −1971
Std Dev 0
pull1D
Entries 92
Mean 0.001751
Std Dev 0.4251

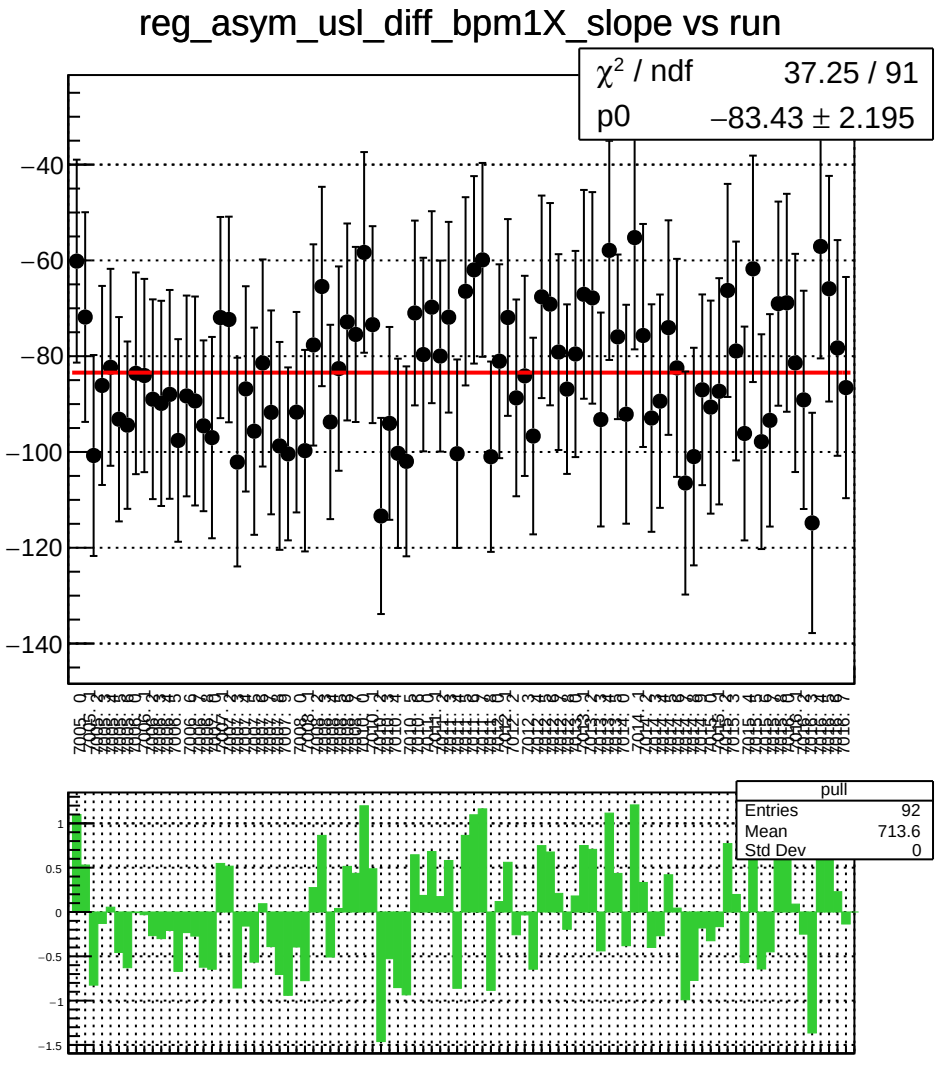

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 31.78 / 91
p0 −40.81 ± 0.2306
−34
−36
−38
−40
−42
−44
pull
Entries 92
Mean 54.86
Std Dev 29.51
1.5
1
0.5
0
−0.5
pull1D
Entries 92
Mean 0.05676
Std Dev 0.585
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

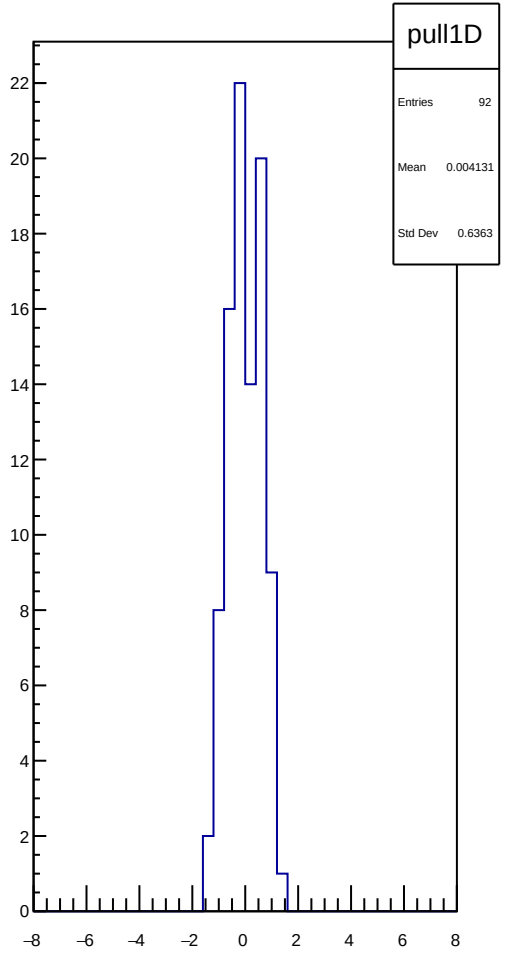

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 20.9 / 91
p0 −41.31 ± 0.3162
pull
Entries 92
Mean −1043
Std Dev 0

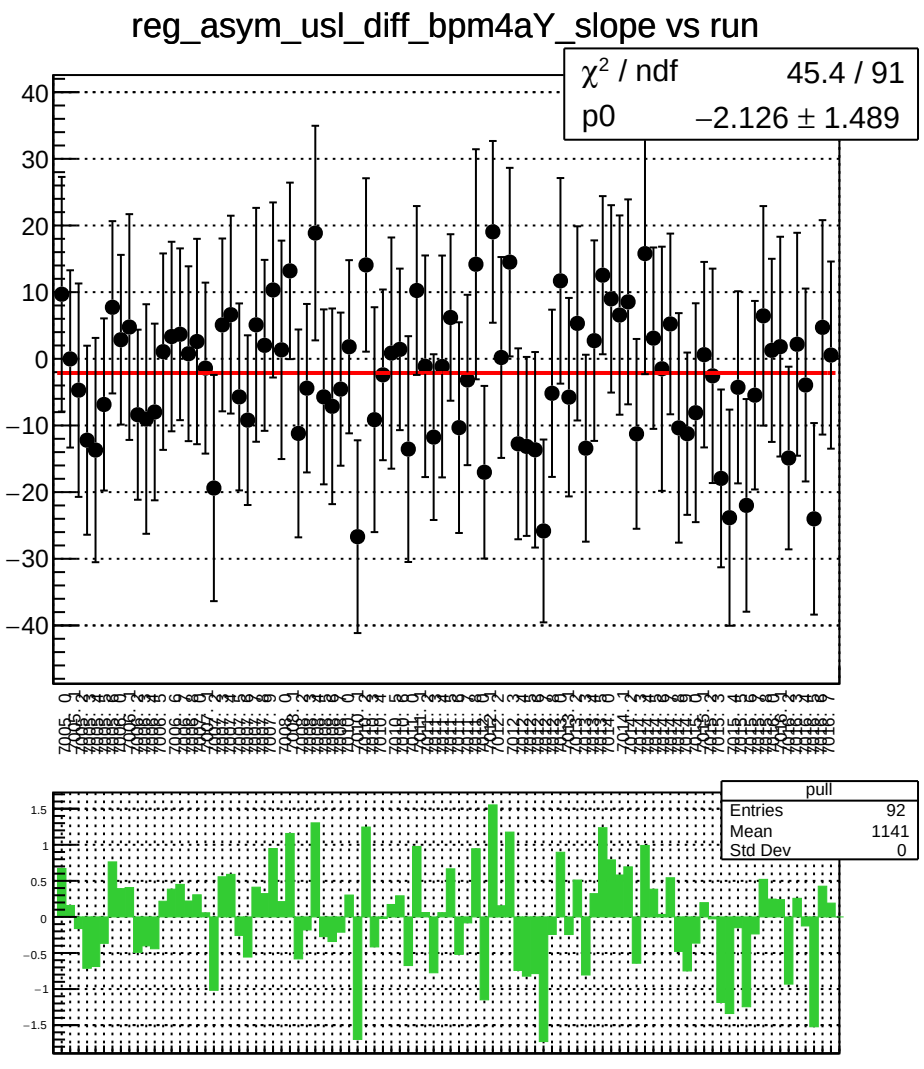

pull1D
Entries 92
Mean −0.004851
Std Dev 0.4766

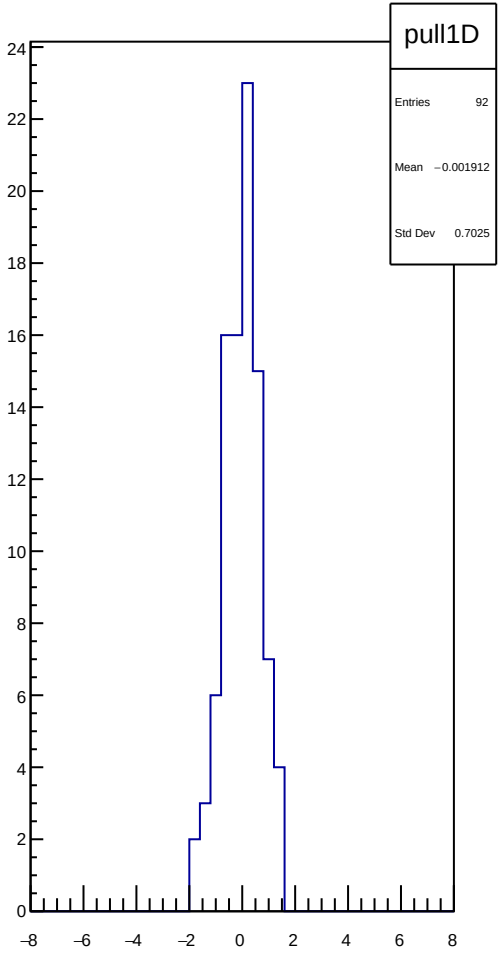

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 20.73 / 91
p0 45.18 ± 0.2424
pull
Entries 92
Mean 231.5
Std Dev 0
pull1D
Entries 92
Mean −0.02262
Std Dev 0.4742

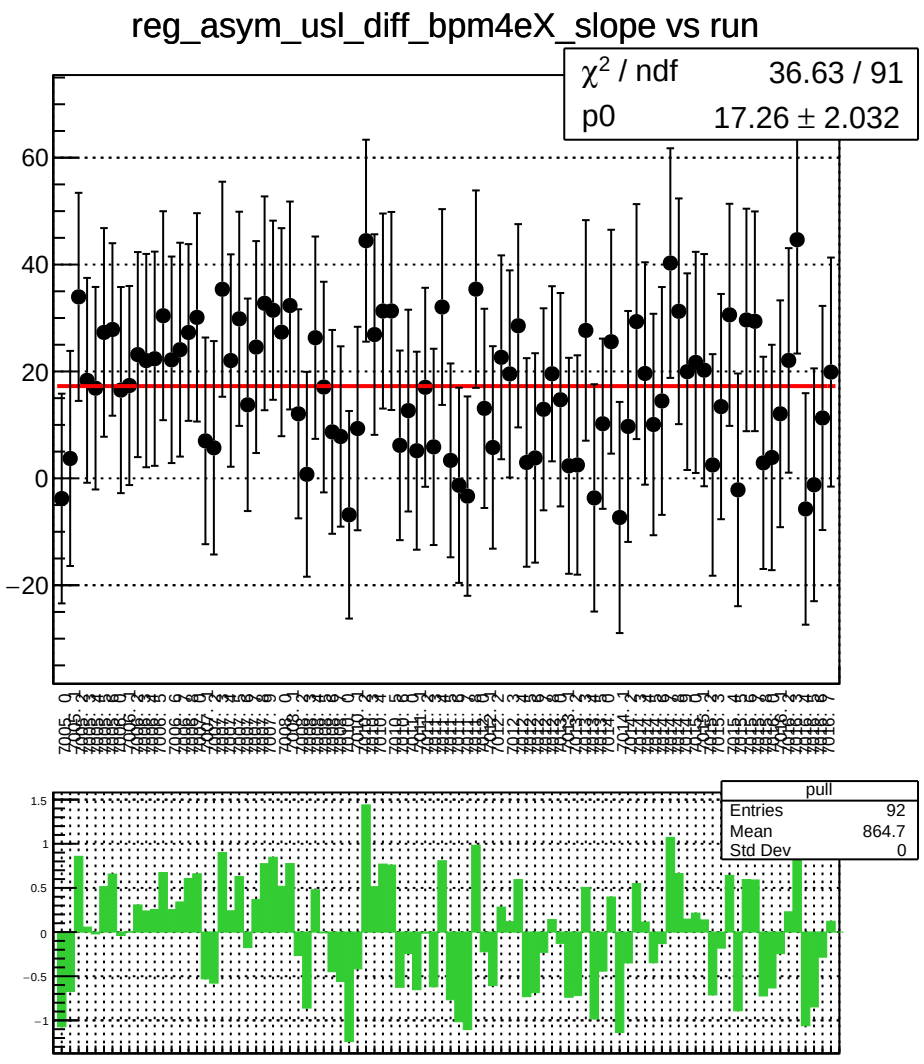

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 39 / 91
p0 0.2597 ± 0.01096
pull
Entries 92
Mean −3995
Std Dev 0
pull1D
Entries 92
Mean 0.003474
Std Dev 0.6511

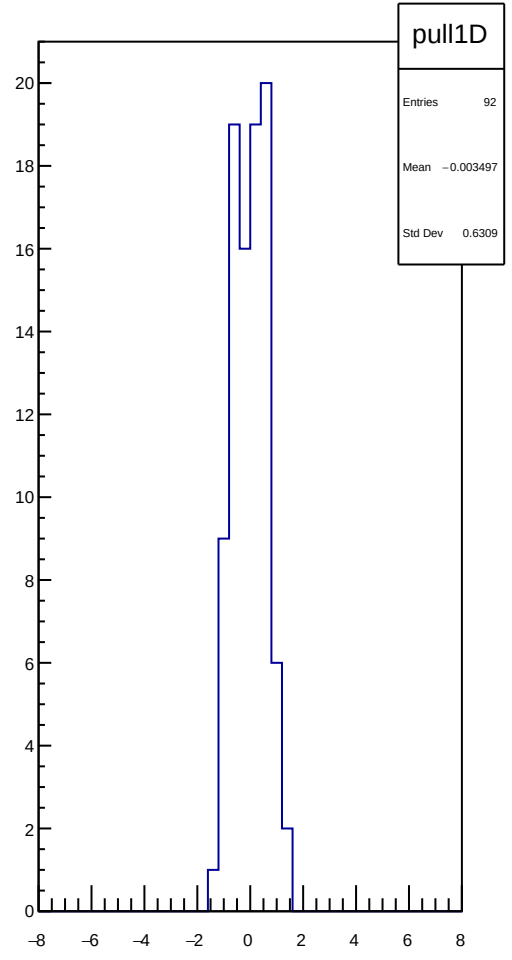

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 37.25 / 91
p0 −83.43 ± 2.195
−40
−60
−80
−100
−120
−140
pull
Entries 92
Mean 713.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

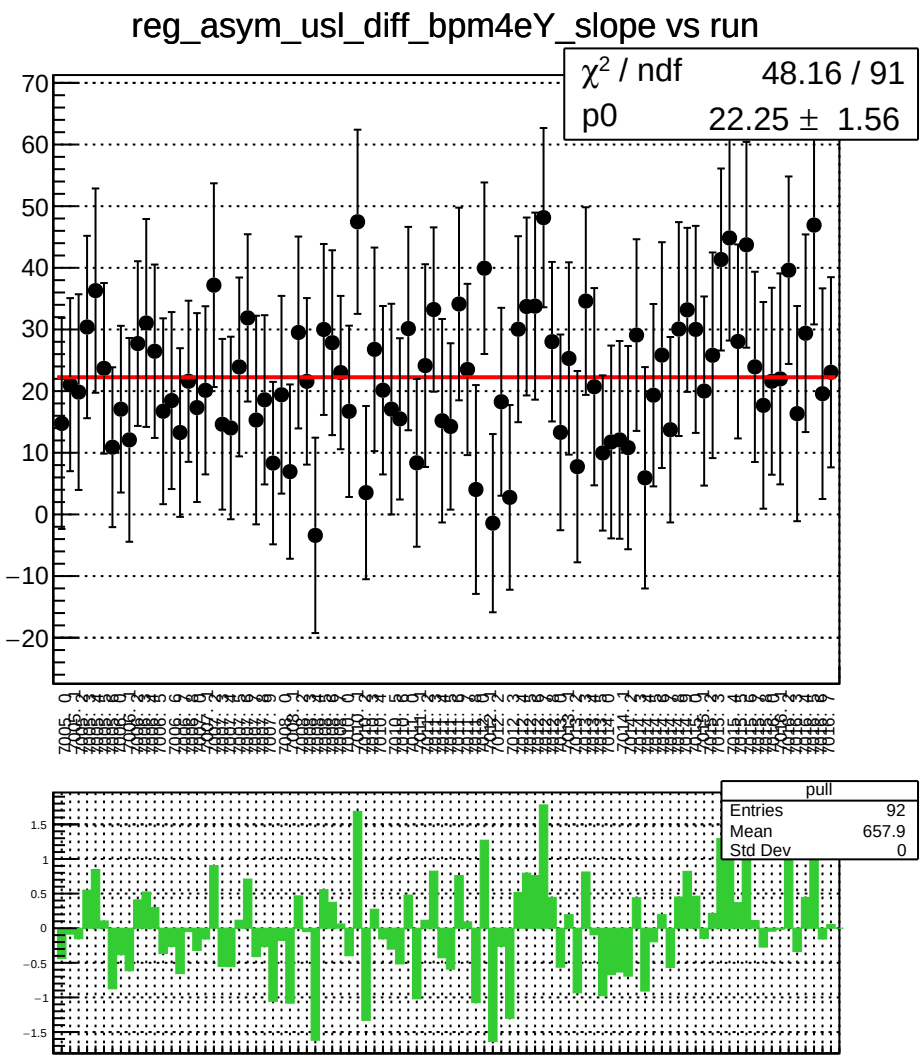

pull1D
Entries 92
Mean 0.004131
Std Dev 0.6363
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

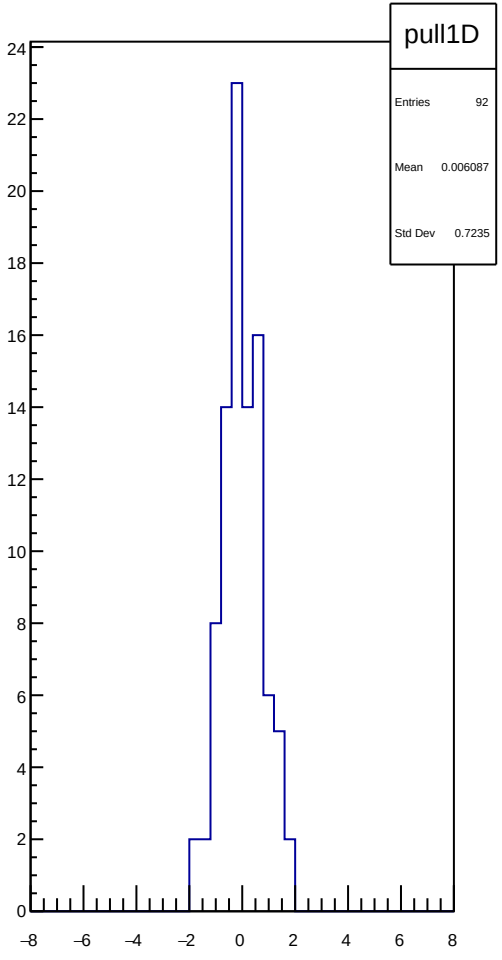

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 45.4 / 91
p0 −2.126 ± 1.489
pull
Entries 92
Mean 1141
Std Dev 0

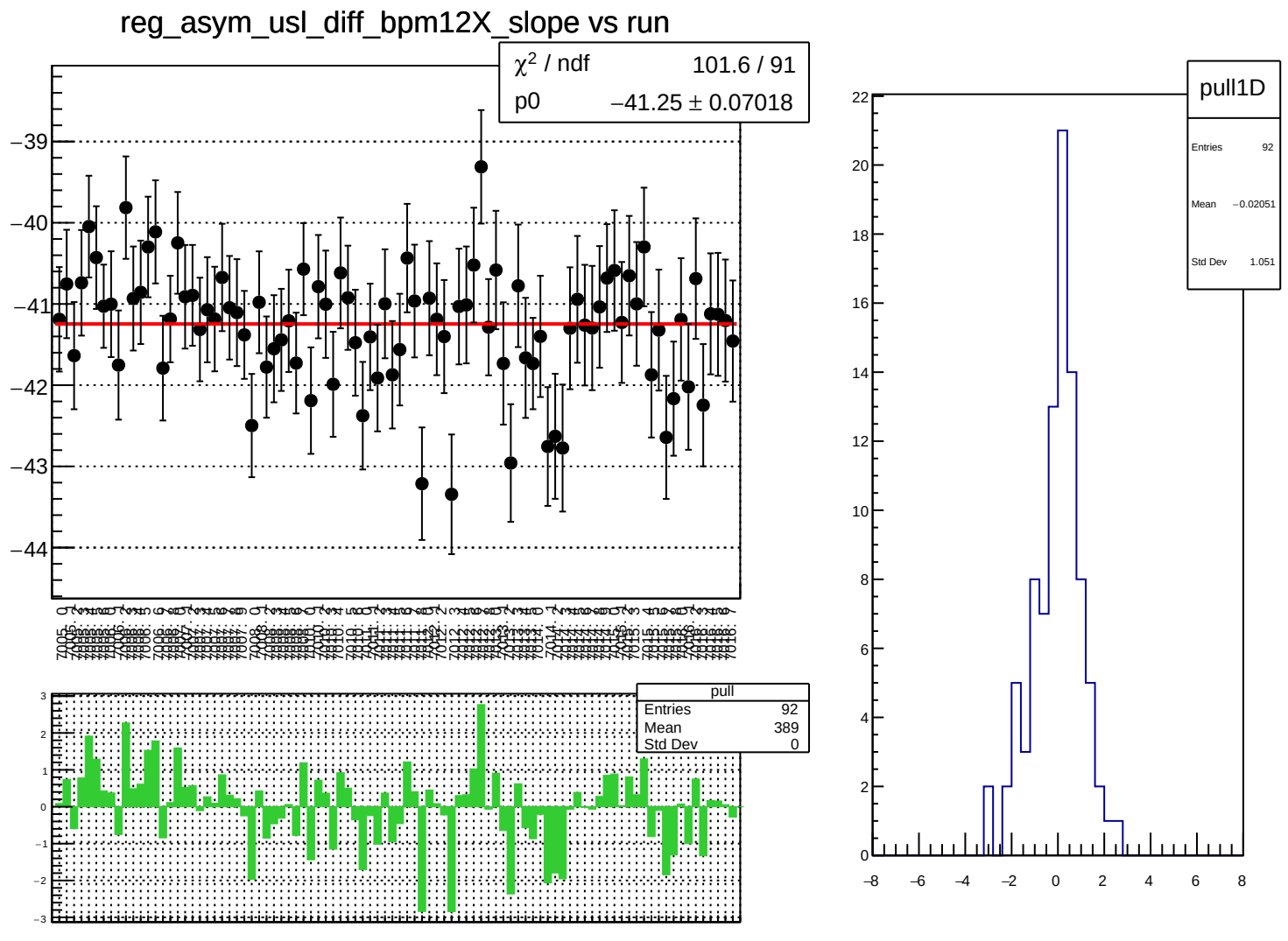

pull1D
Entries 92
Mean −0.001912
Std Dev 0.7025

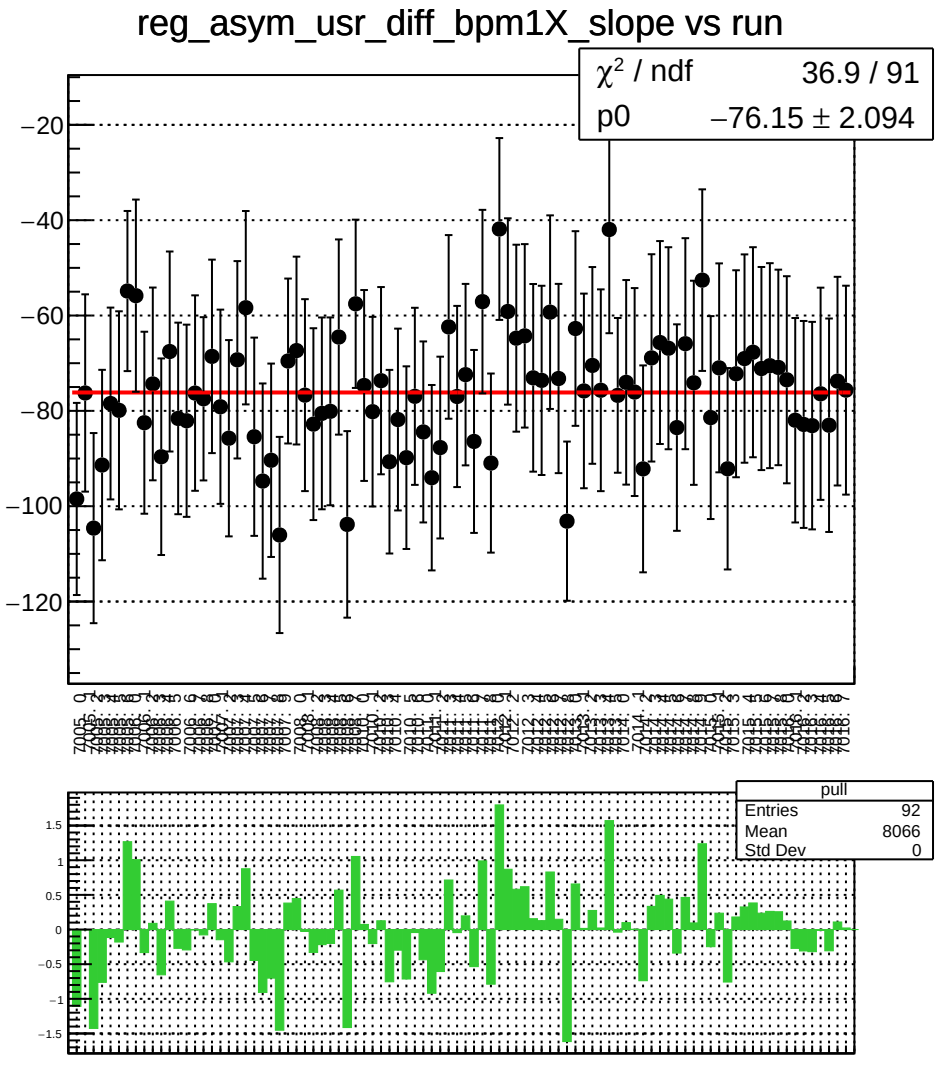

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 36.63 / 91
p0 17.26 ± 2.032
60
40
20
0
−20
pull
Entries 92
Mean 864.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

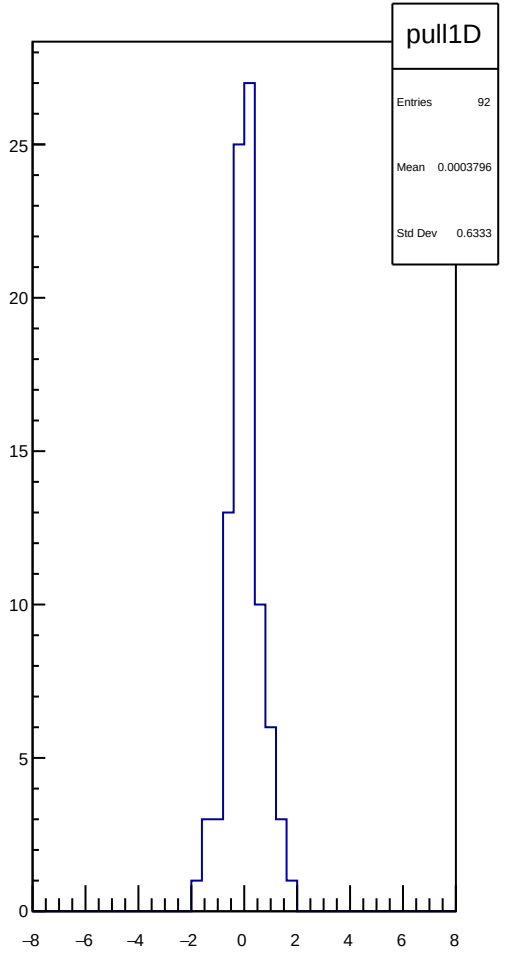

pull1D
Entries 92
Mean −0.003497
Std Dev 0.6309
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

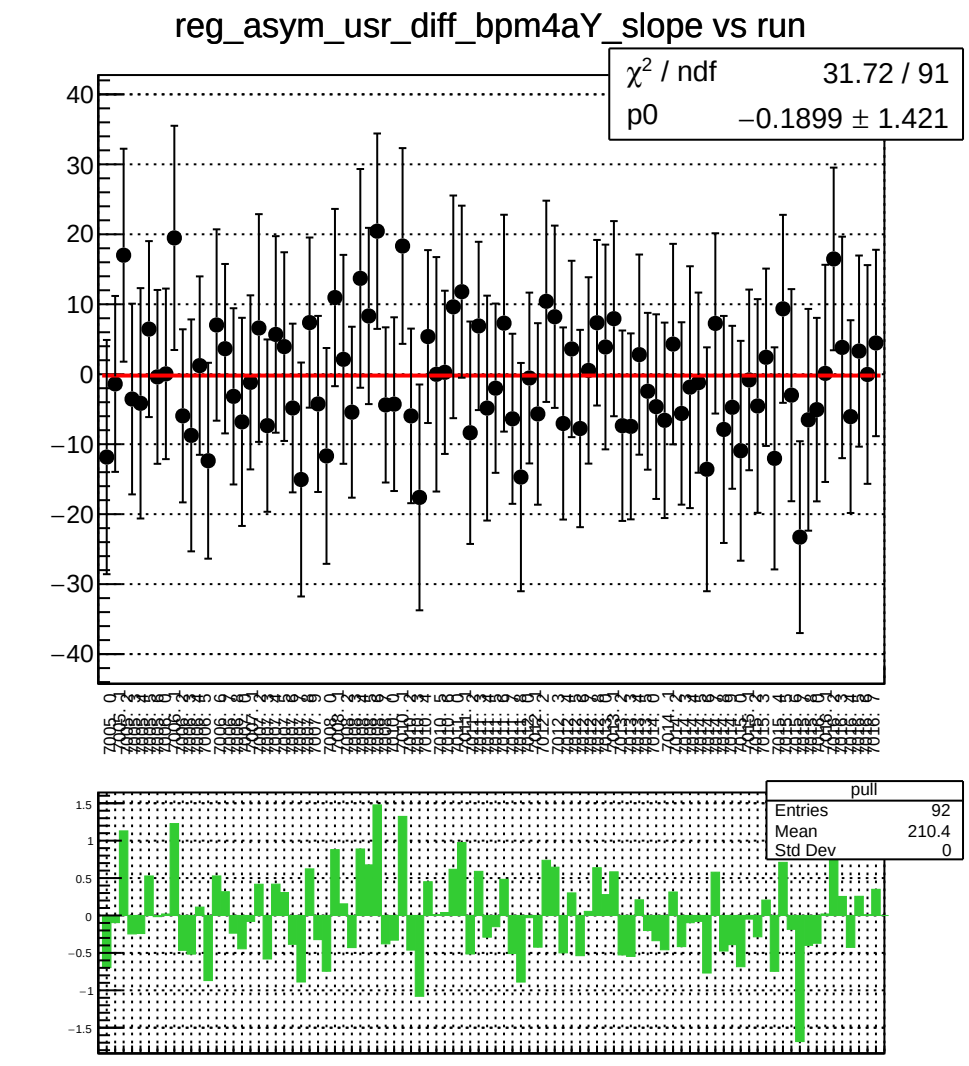

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 48.16 / 91
p0 22.25 ± 1.56
pull
Entries 92
Mean 657.9
Std Dev 0

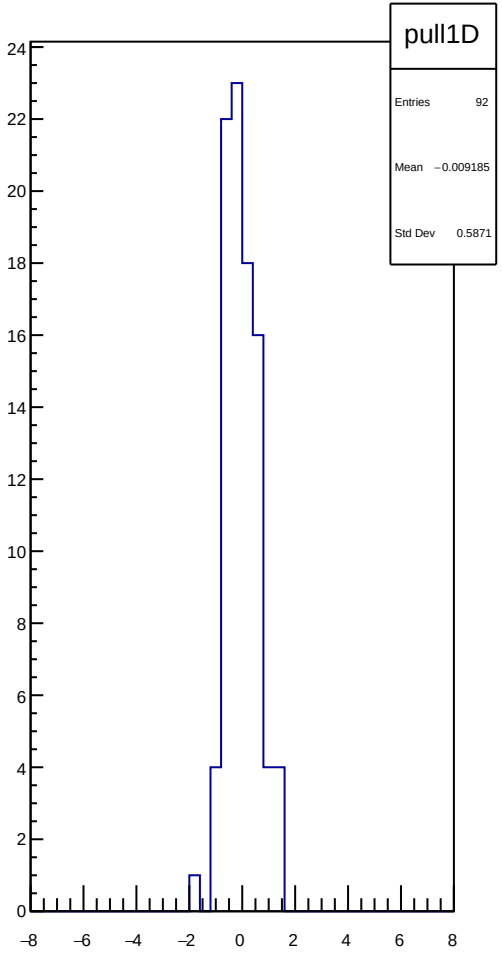

pull1D
Entries 92
Mean 0.006087
Std Dev 0.7235

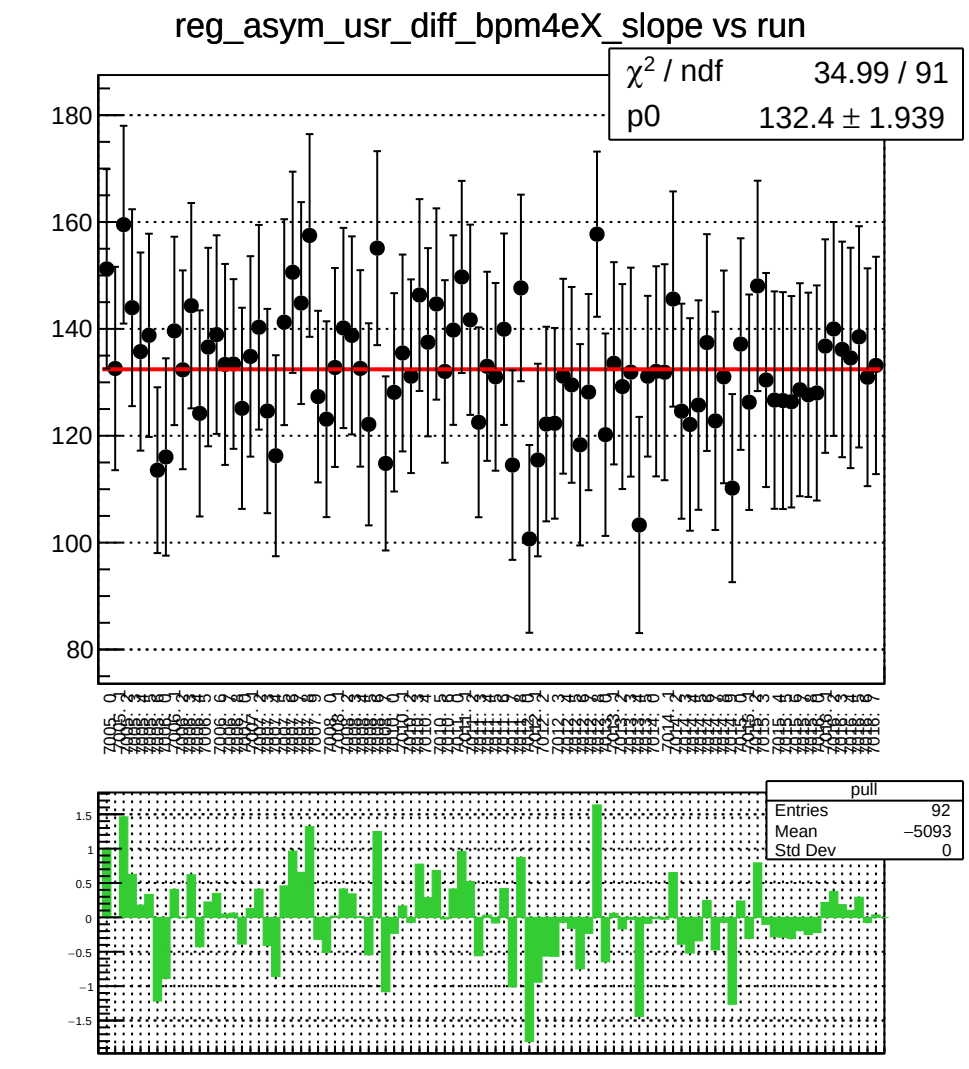

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 101.6 / 91
p0 −41.25 ± 0.07018
−39
−40
−41
−42
−43
−44
pull
Entries 92
Mean 389
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.02051
Std Dev 1.051
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

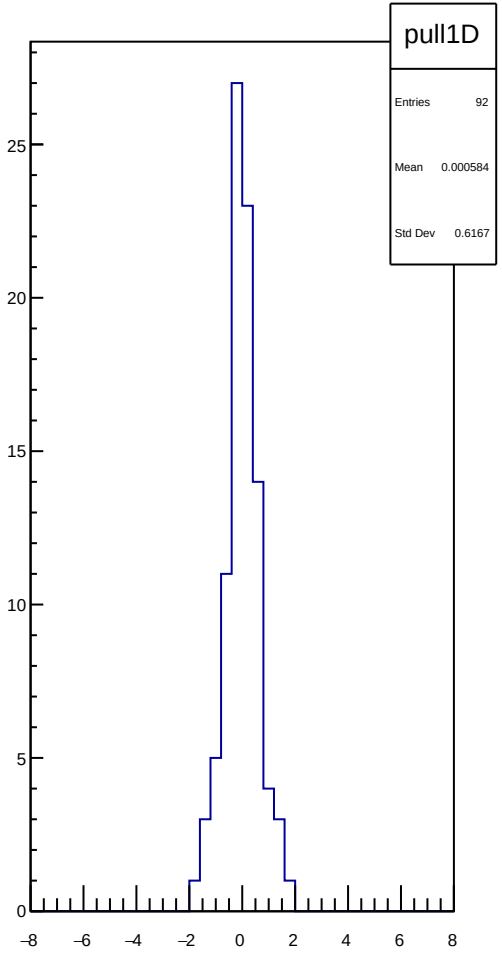

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 36.9 / 91
p0 −76.15 ± 2.094
−20
−40
−60
−80
−100
−120
pull
Entries 92
Mean 8066
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

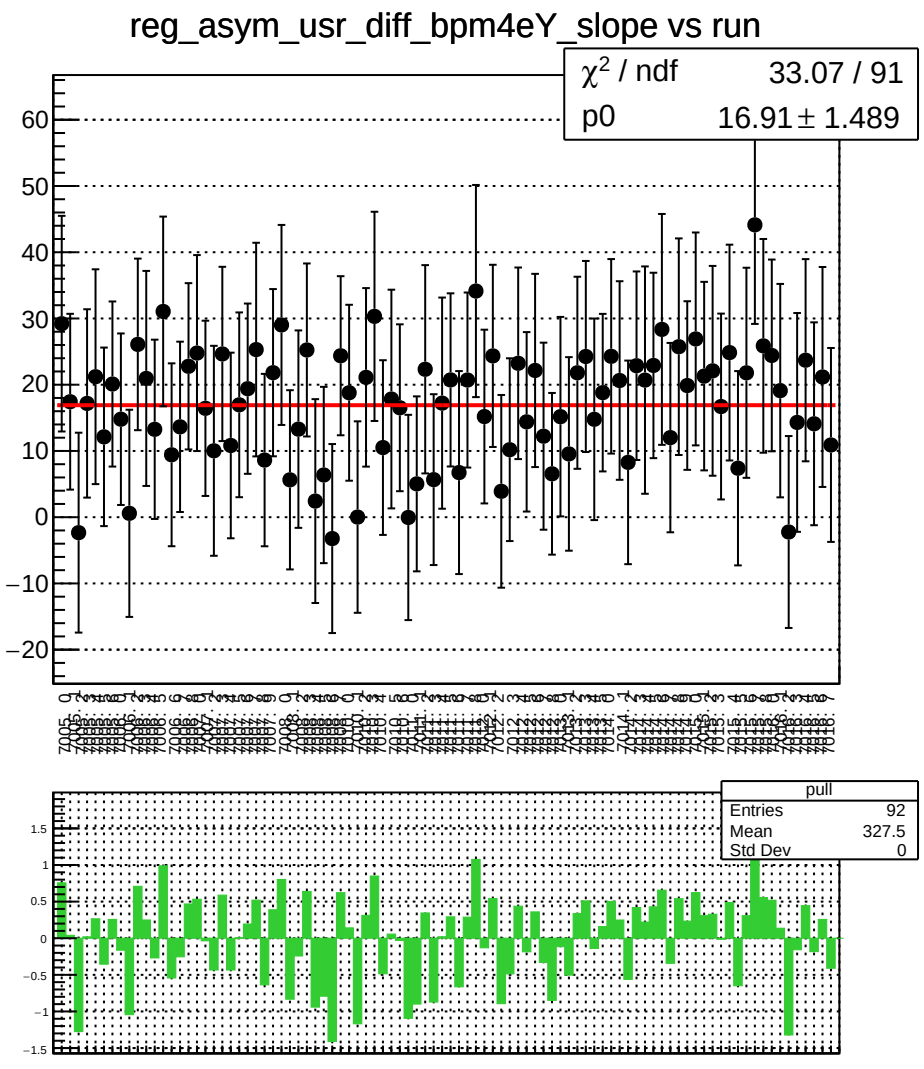

pull1D
Entries 92
Mean 0.0003796
Std Dev 0.6333
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

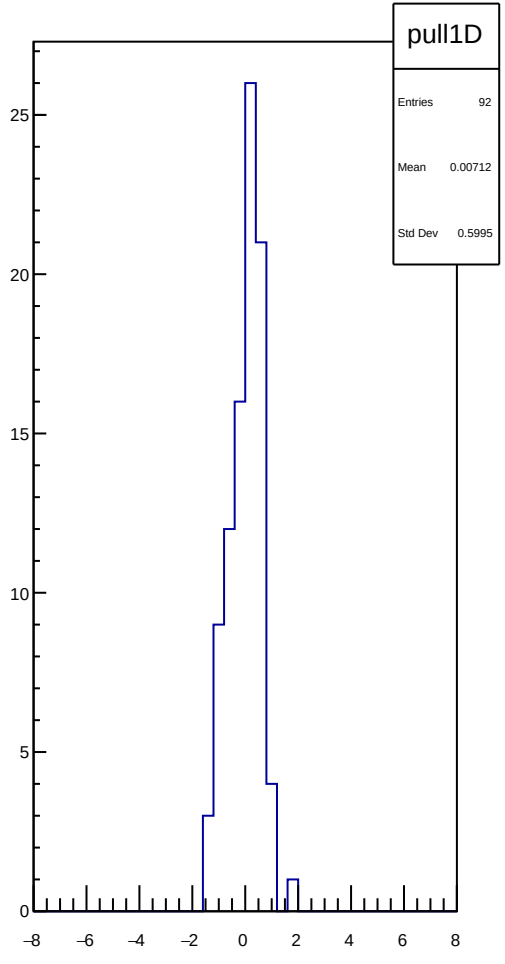

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 31.72 / 91
p0 −0.1899 ± 1.421
pull
Entries 92
Mean 210.4
Std Dev 0

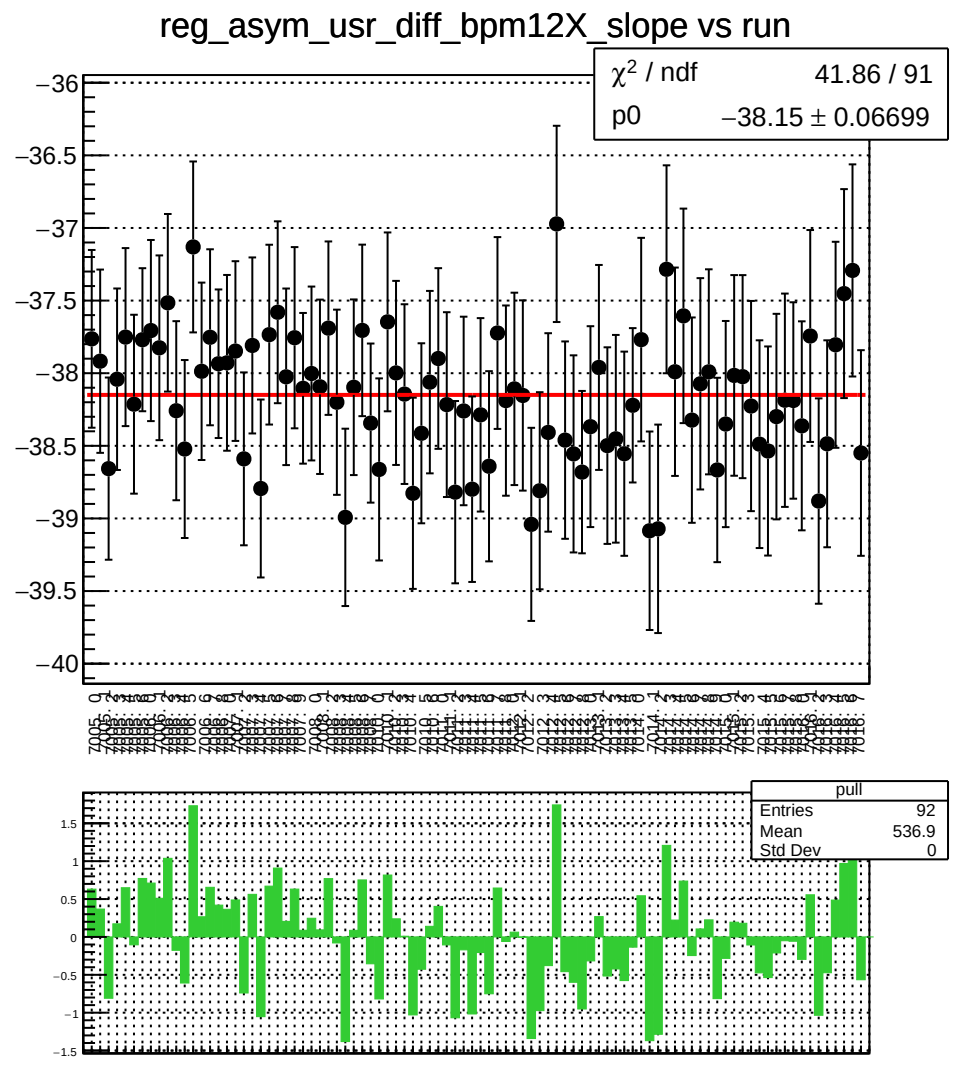

pull1D
Entries 92
Mean −0.009185
Std Dev 0.5871

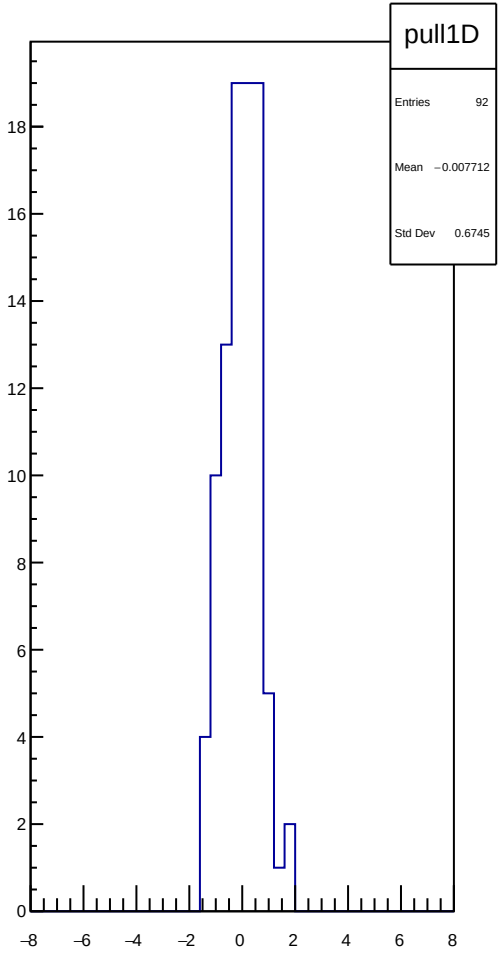

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 34.99 / 91
p0 132.4 ± 1.939
pull
Entries 92
Mean −5093
Std Dev 0

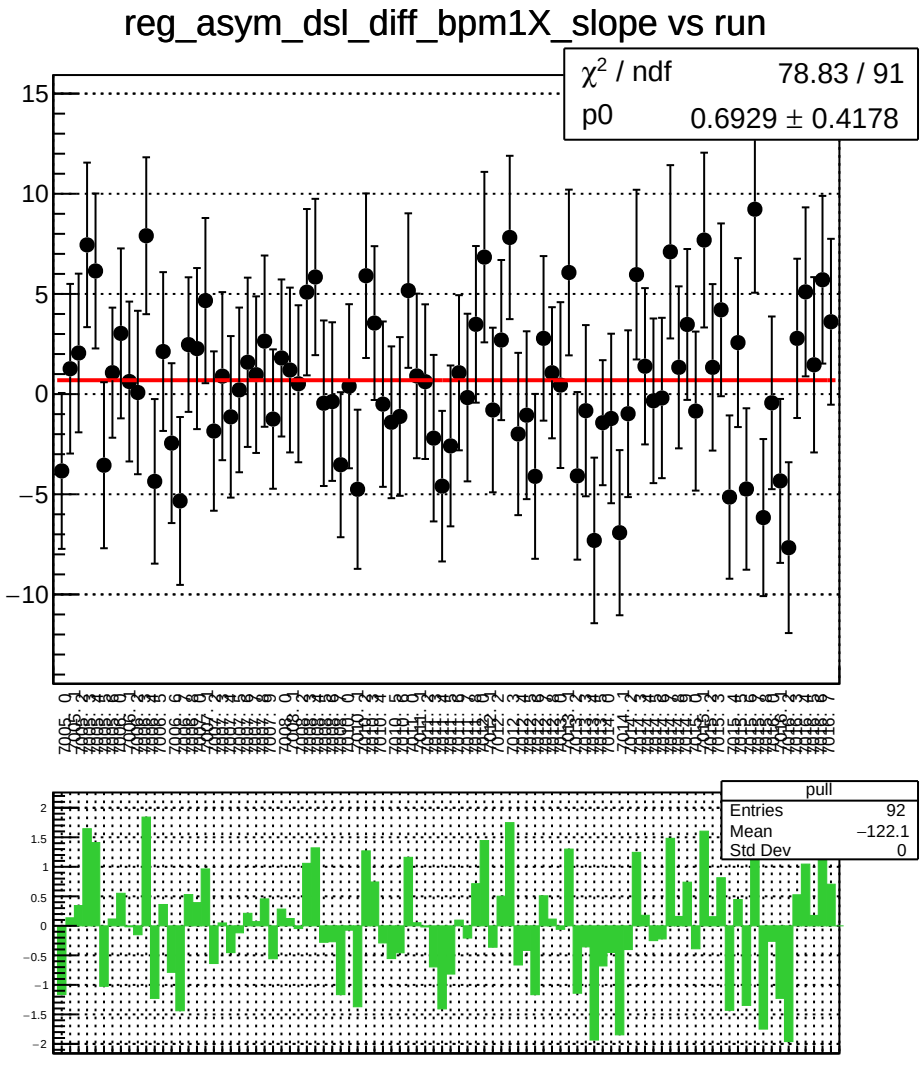

pull1D
Entries 92
Mean 0.000584
Std Dev 0.6167

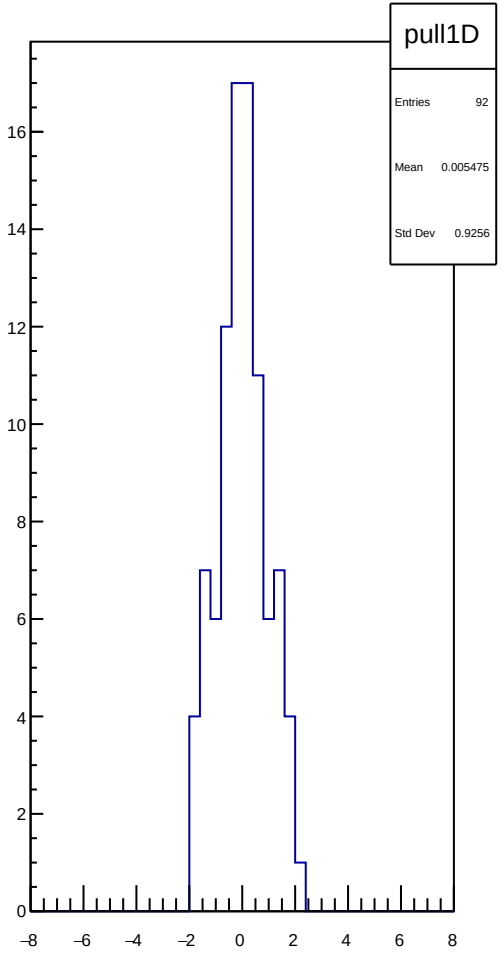

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 33.07 / 91
p0 16.91 ± 1.489
pull
Entries 92
Mean 327.5
Std Dev 0

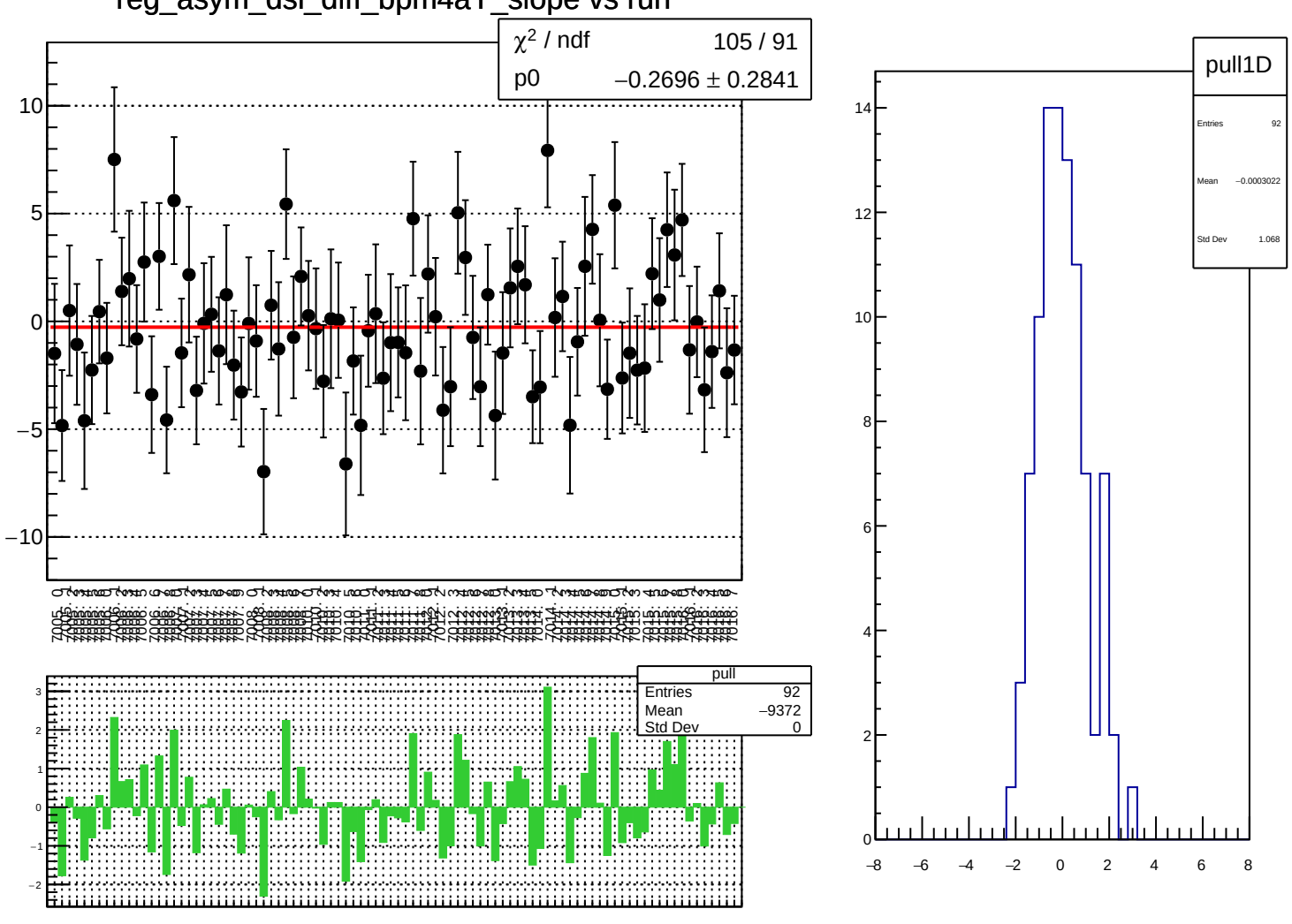

pull1D
Entries 92
Mean 0.00712
Std Dev 0.5995

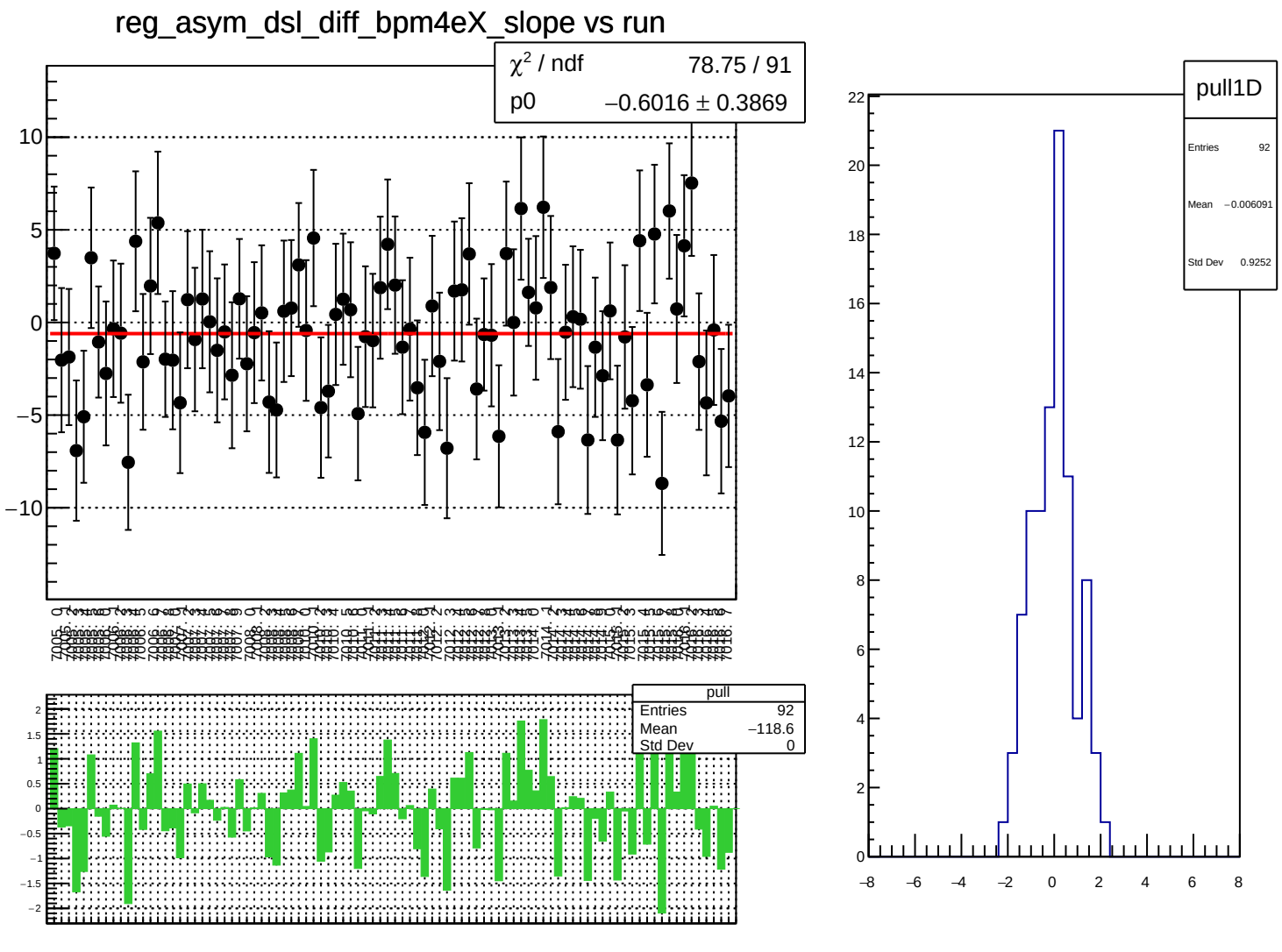

reg_asym_usr_diff_bpm12X_slope vs run
$\chi^2$ / ndf 41.86 / 91
p0 −38.15 ± 0.06699
pull
Entries 92
Mean 536.9
Std Dev 0

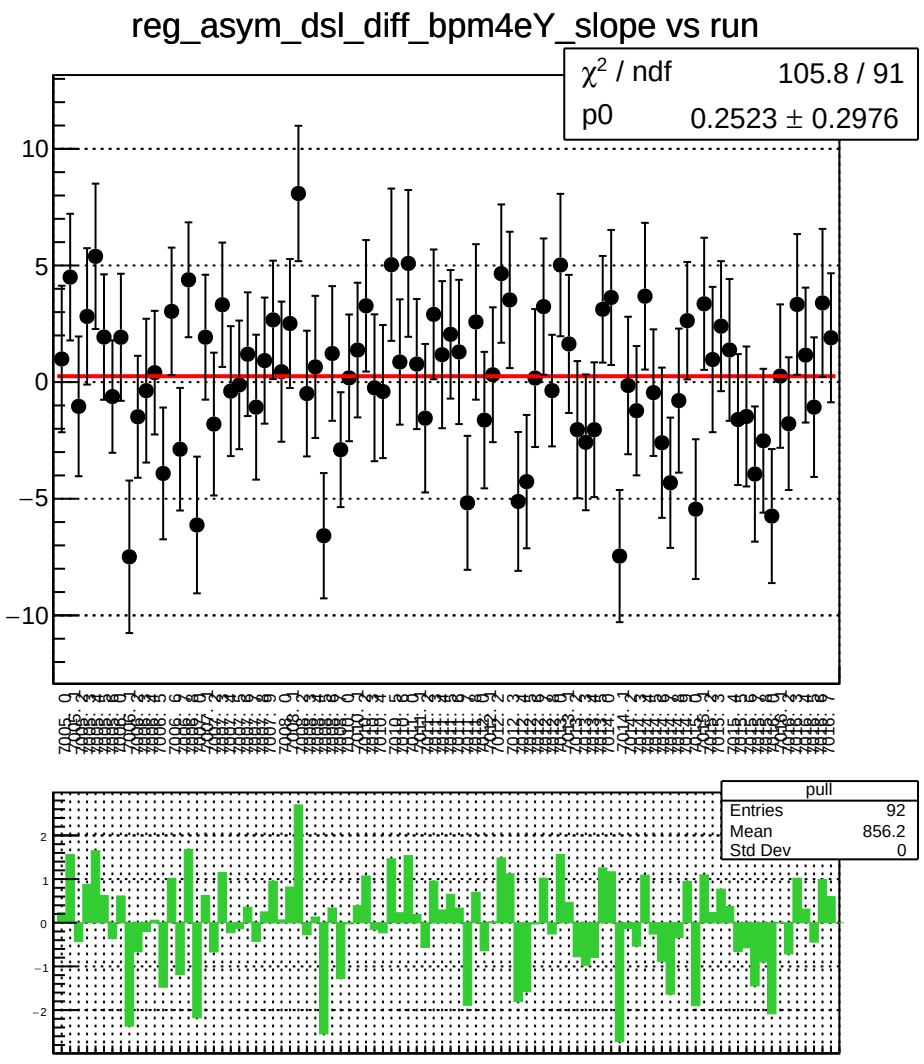

pull1D
Entries 92
Mean −0.007712
Std Dev 0.6745

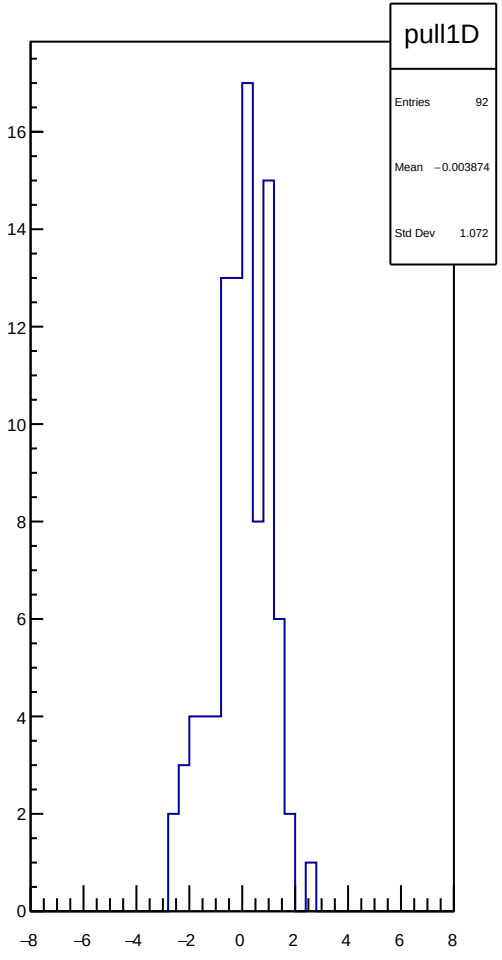

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 78.83 / 91
p0 0.6929 ± 0.4178
pull
Entries 92
Mean −122.1
Std Dev 0

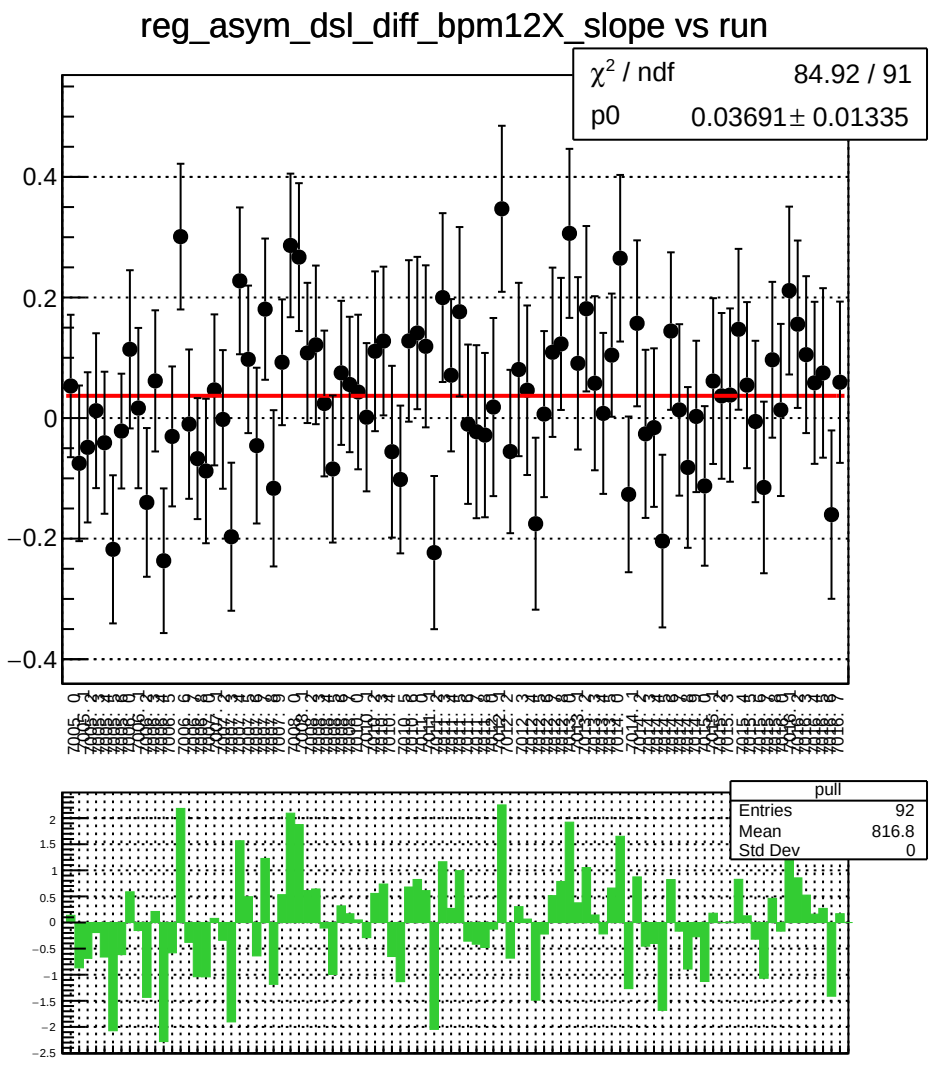

pull1D
Entries 92
Mean 0.005475
Std Dev 0.9256

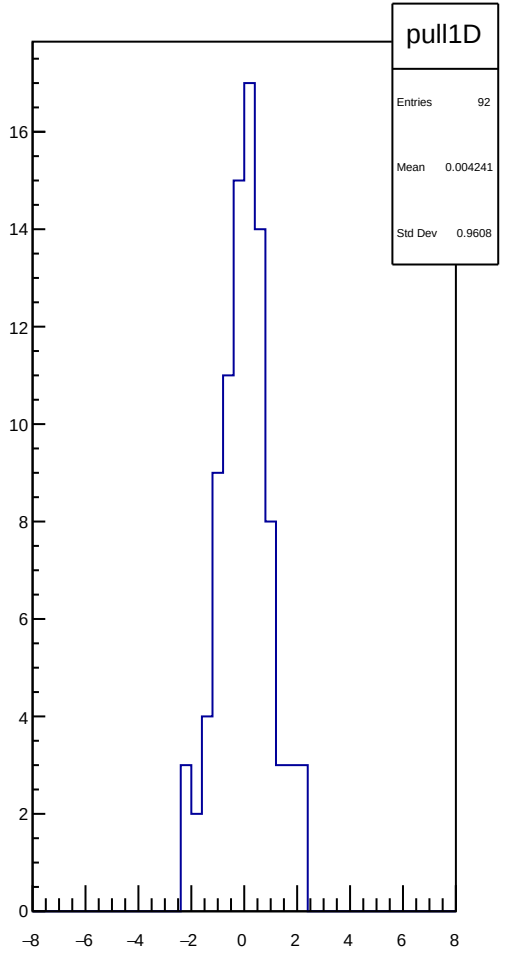

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 105 / 91
p0 −0.2696 ± 0.2841
pull
Entries 92
Mean −9372
Std Dev 0
pull1D
Entries 92
Mean −0.0003022
Std Dev 1.068

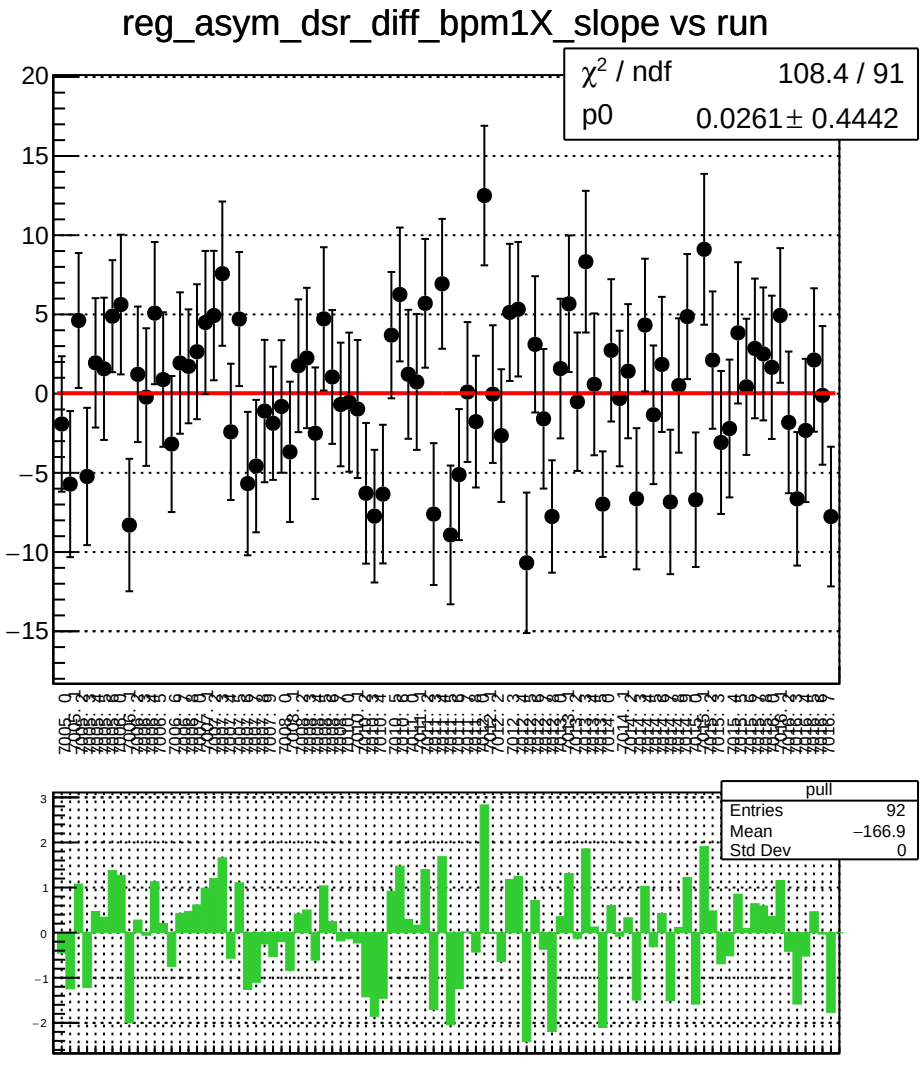

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 78.75 / 91
p0 −0.6016 ± 0.3869
pull
Entries 92
Mean −118.6
Std Dev 0
pull1D
Entries 92
Mean −0.006091
Std Dev 0.9252

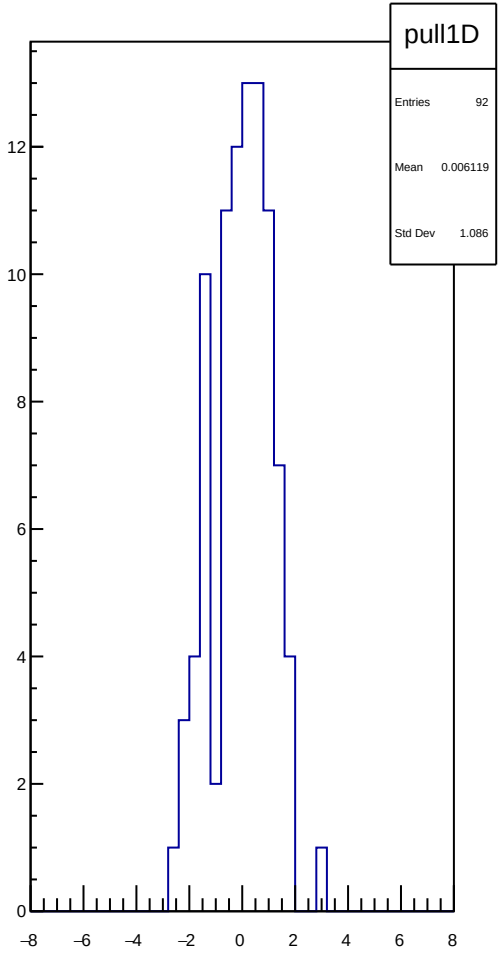

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 105.8 / 91
p0 0.2523 ± 0.2976
pull
Entries 92
Mean 856.2
Std Dev 0

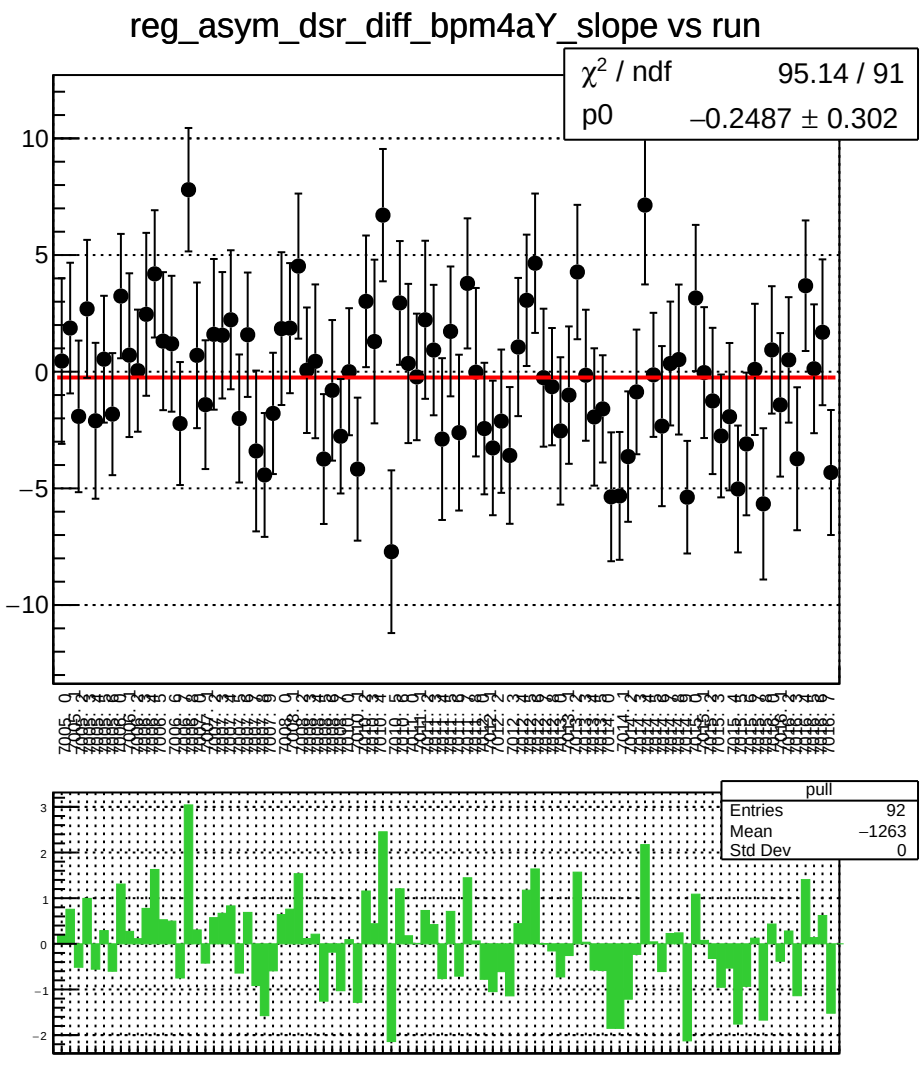

pull1D
Entries 92
Mean −0.003874
Std Dev 1.072

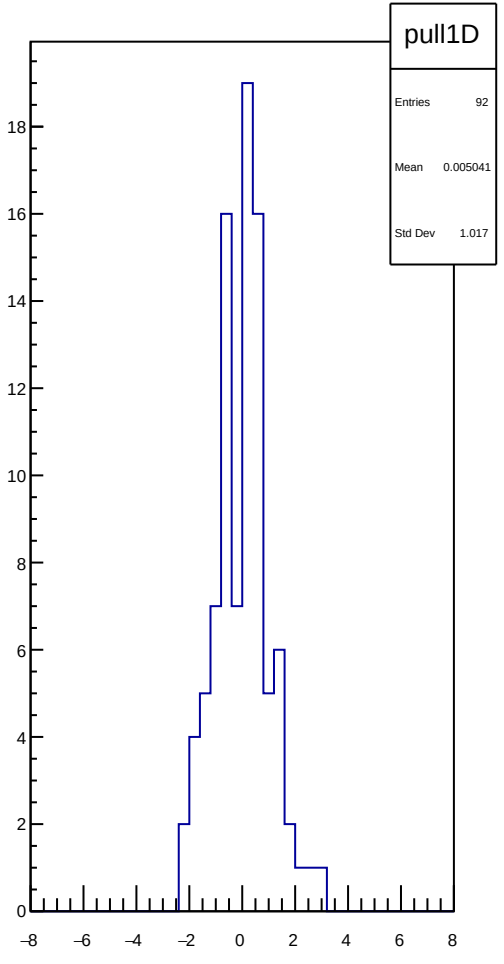

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 84.92 / 91
p0 0.03691 ± 0.01335
pull
Entries 92
Mean 816.8
Std Dev 0

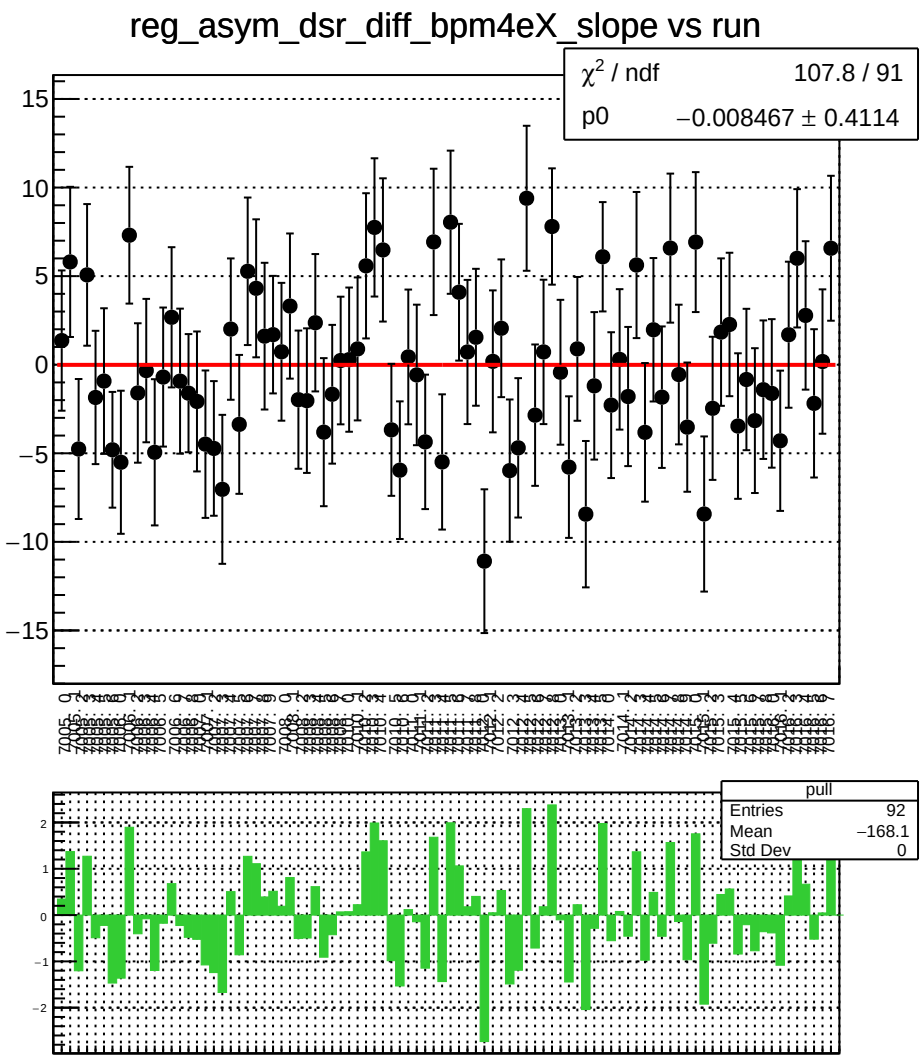

pull1D
Entries 92
Mean 0.004241
Std Dev 0.9608

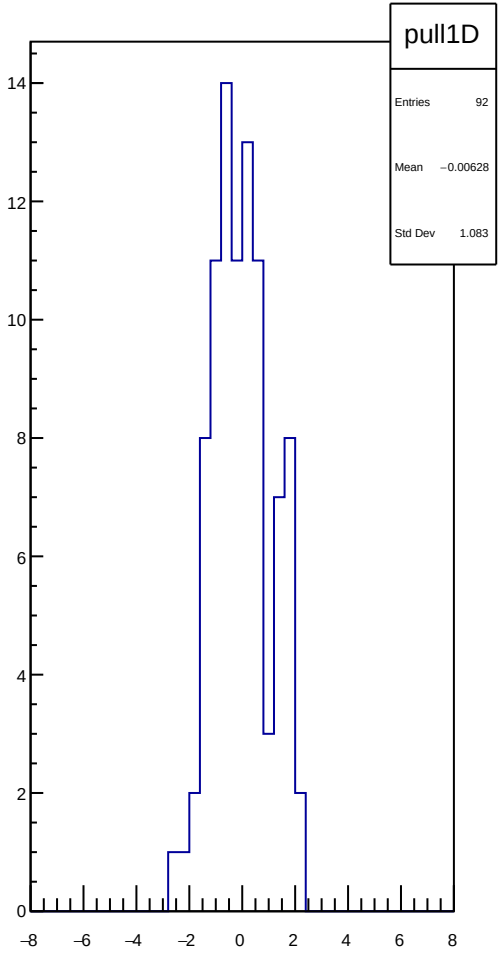

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 108.4 / 91
p0 0.0261± 0.4442
pull
Entries 92
Mean −166.9
Std Dev 0

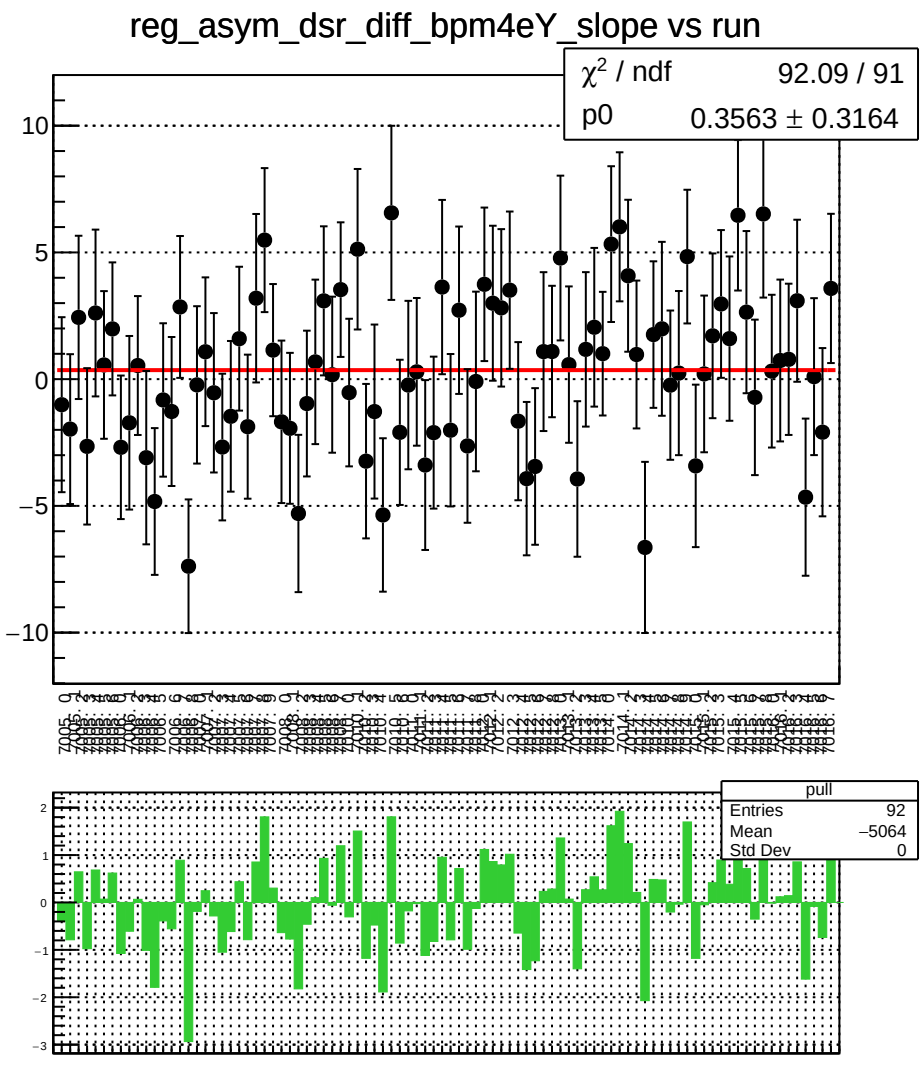

pull1D
Entries 92
Mean 0.006119
Std Dev 1.086

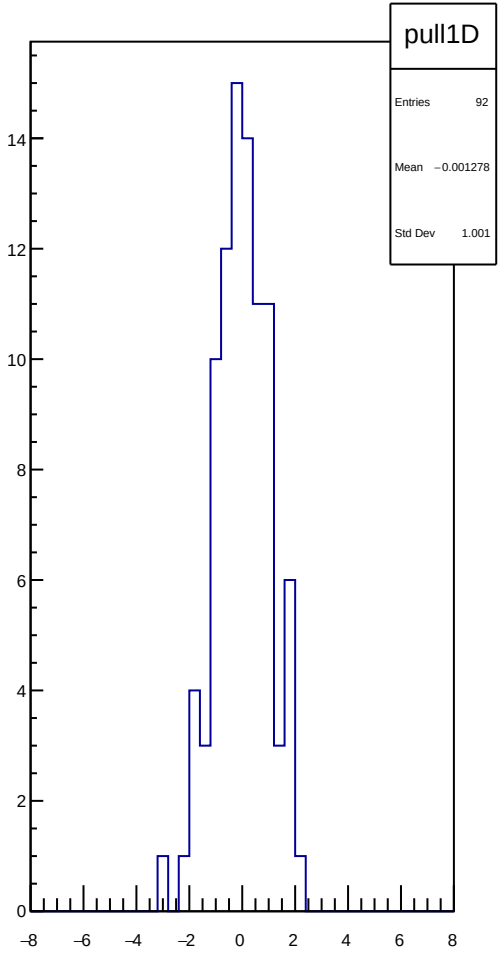

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 95.14 / 91
p0 −0.2487 ± 0.302
pull
Entries 92
Mean −1263
Std Dev 0

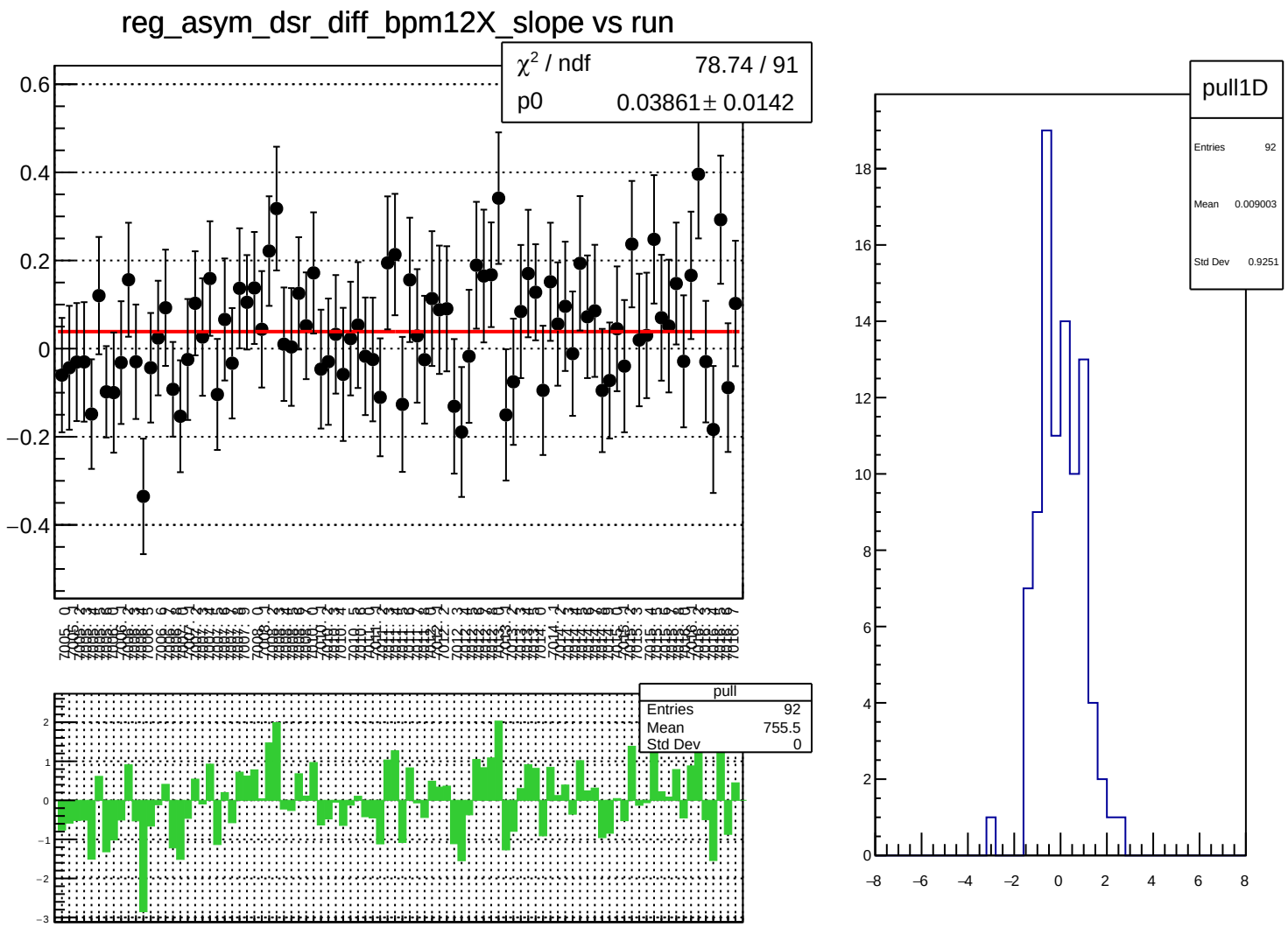

pull1D
Entries 92
Mean 0.005041
Std Dev 1.017

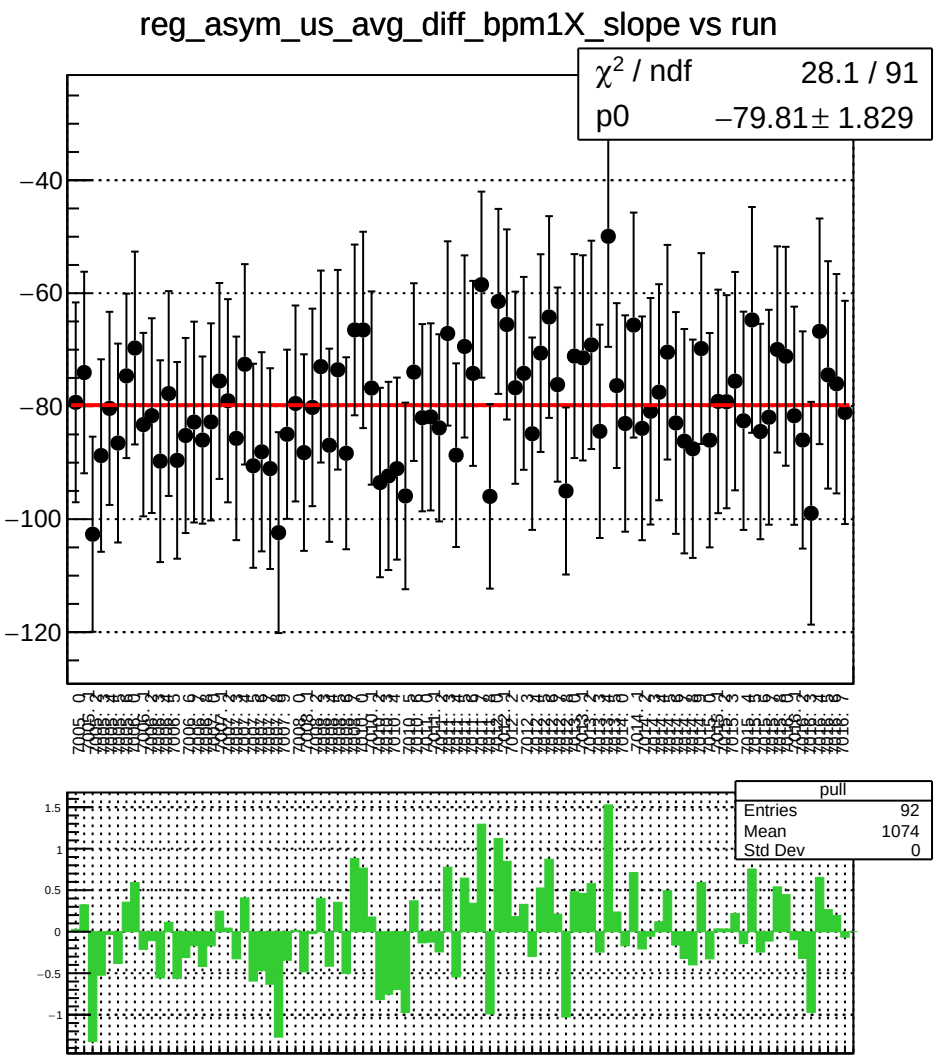

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 107.8 / 91
p0 −0.008467 ± 0.4114
pull
Entries 92
Mean −168.1
Std Dev 0

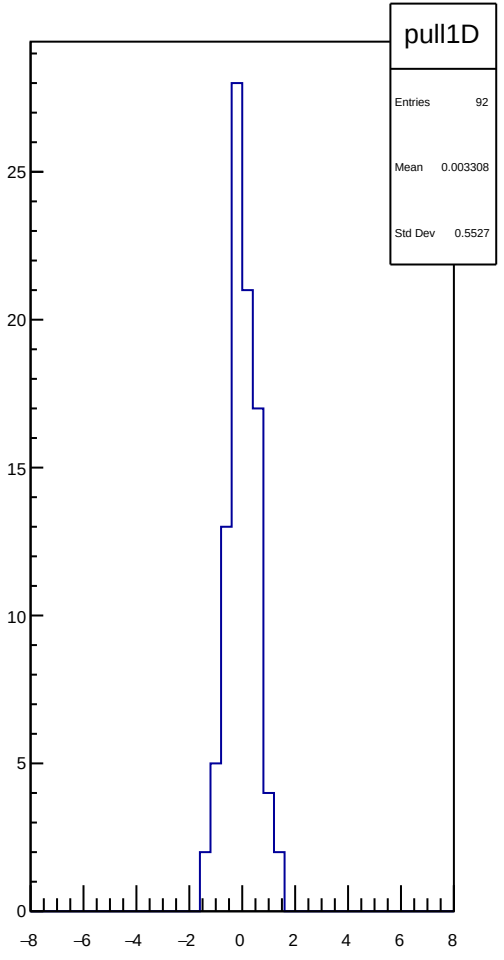

pull1D
Entries 92
Mean −0.00628
Std Dev 1.083

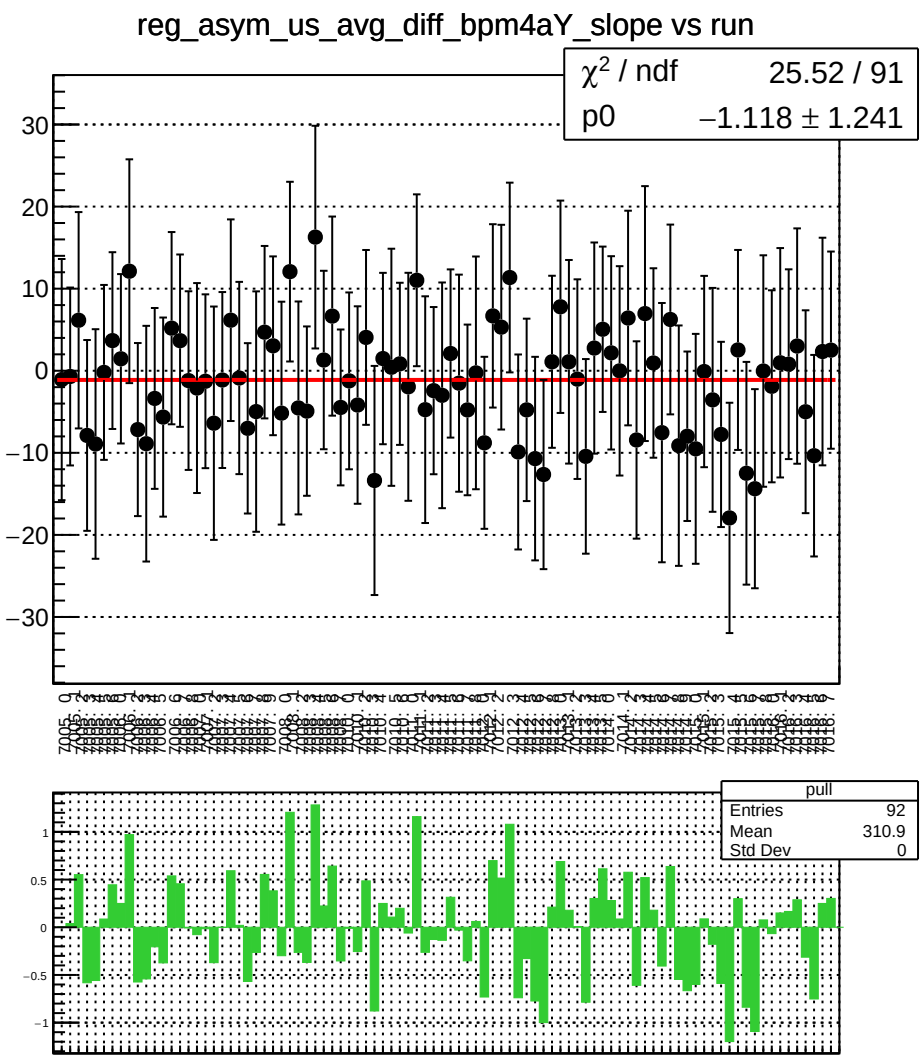

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 92.09 / 91
p0 0.3563 ± 0.3164
pull
Entries 92
Mean −5064
Std Dev 0

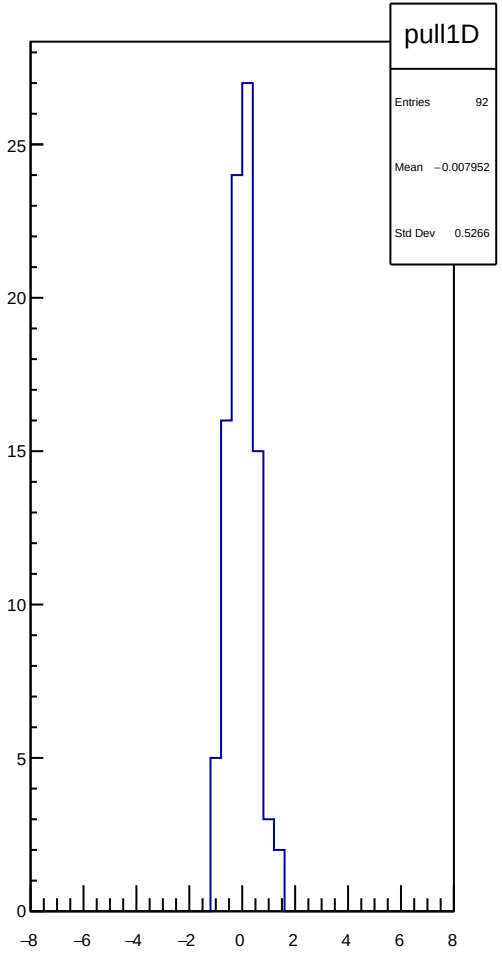

pull1D
Entries 92
Mean −0.001278
Std Dev 1.001

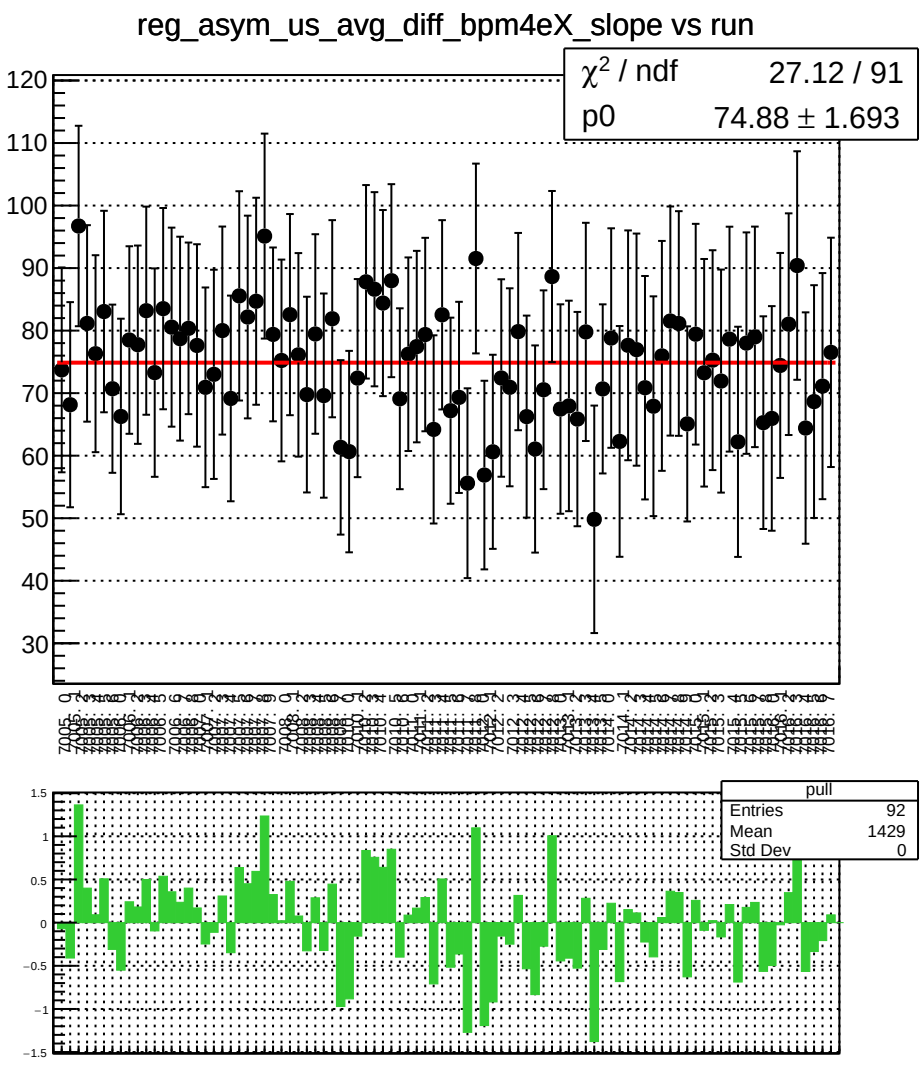

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 78.74 / 91
p0 0.03861 ± 0.0142
pull
Entries 92
Mean 755.5
Std Dev 0
pull1D
Entries 92
Mean 0.009003
Std Dev 0.9251

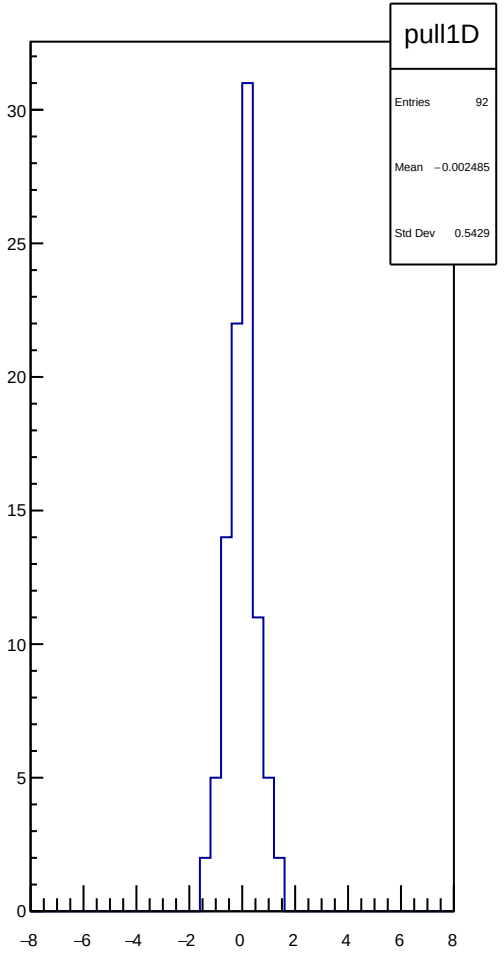

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 28.1 / 91
p0 −79.81 ± 1.829
−40
−60
−80
−100
−120
pull
Entries 92
Mean 1074
Std Dev 0
1.5
1
0.5
0
−0.5
−1

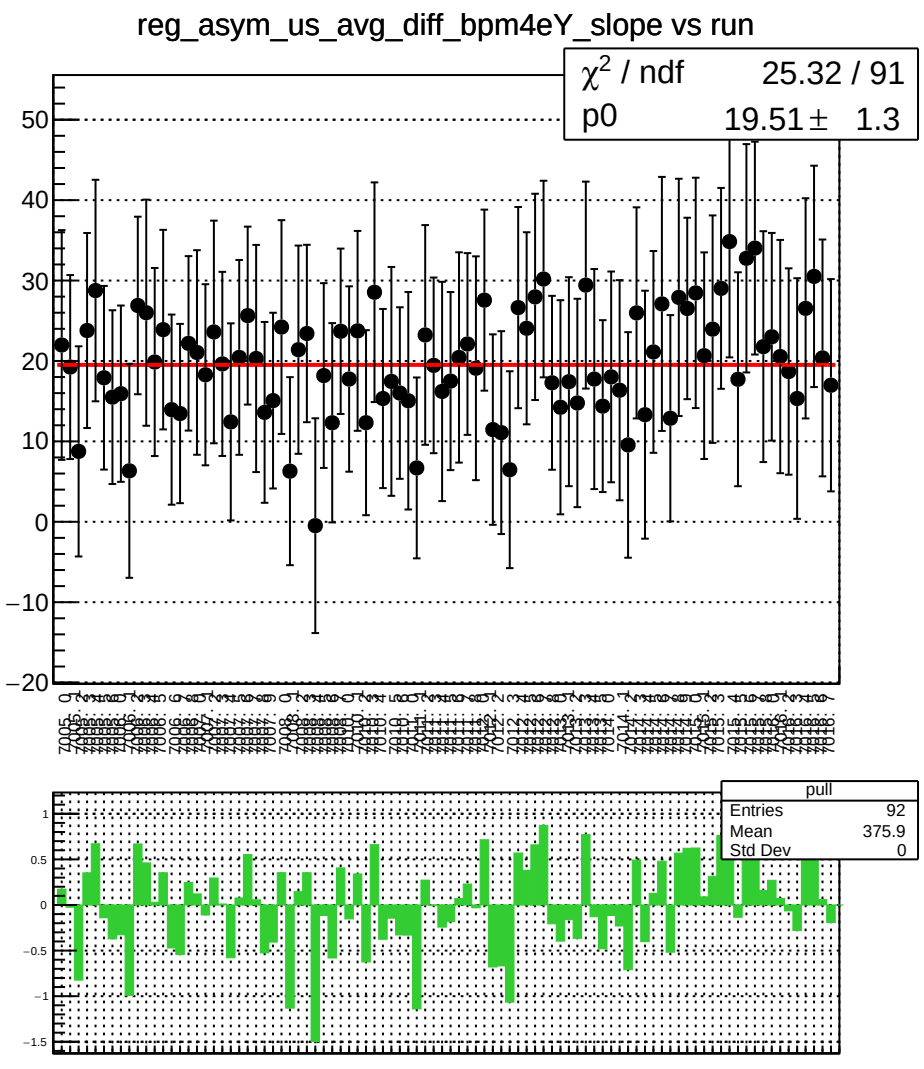

pull1D
Entries 92
Mean 0.003308
Std Dev 0.5527
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

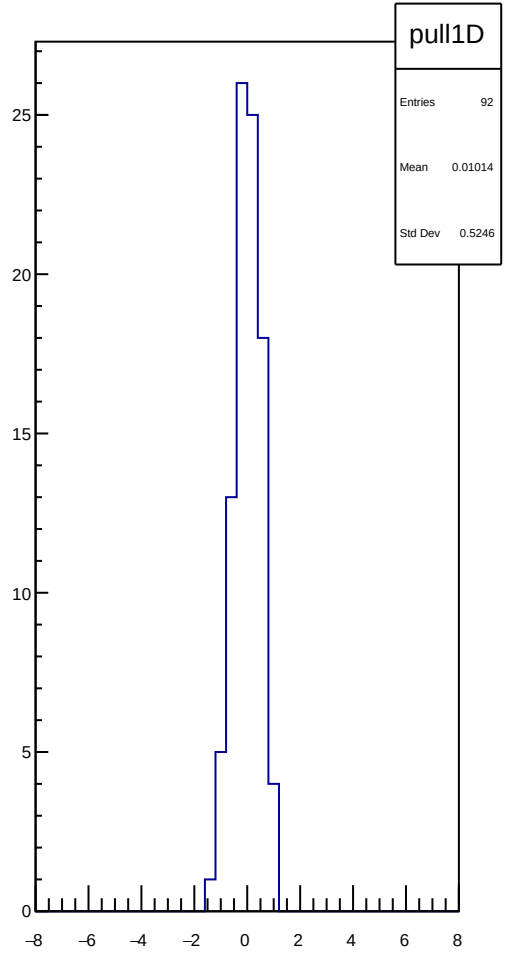

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.52 / 91
p0 −1.118 ± 1.241
pull
Entries 92
Mean 310.9
Std Dev 0

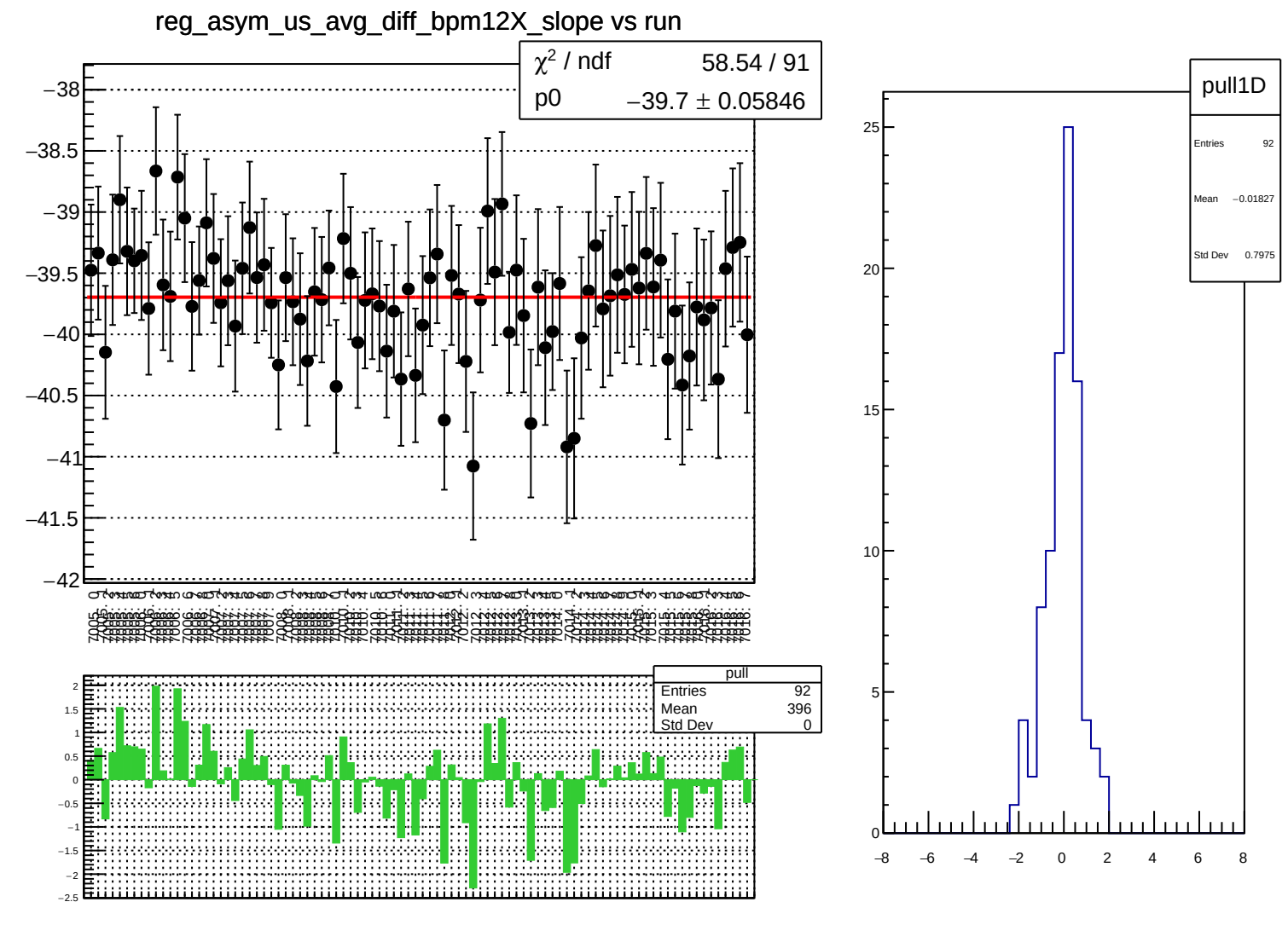

pull1D
Entries 92
Mean −0.007952
Std Dev 0.5266

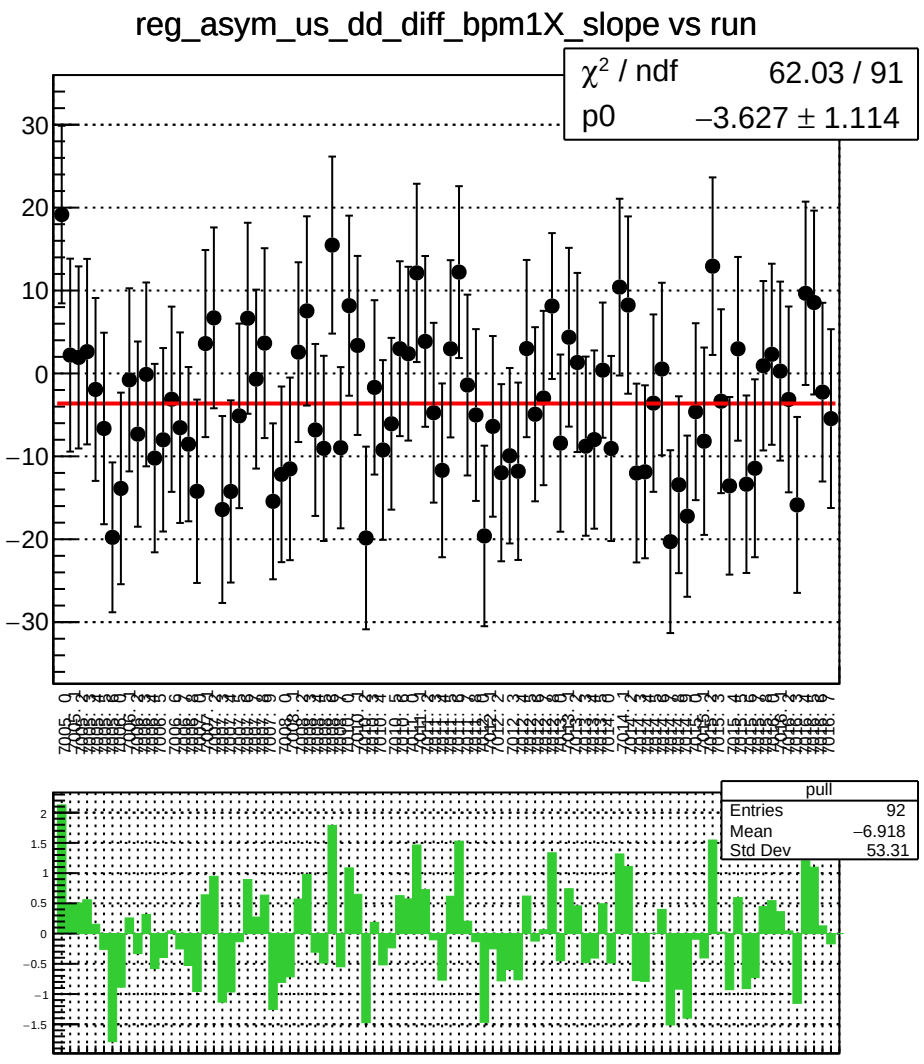

reg_asym_us_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 27.12 / 91
p0 74.88 ± 1.693
pull
Entries 92
Mean 1429
Std Dev 0

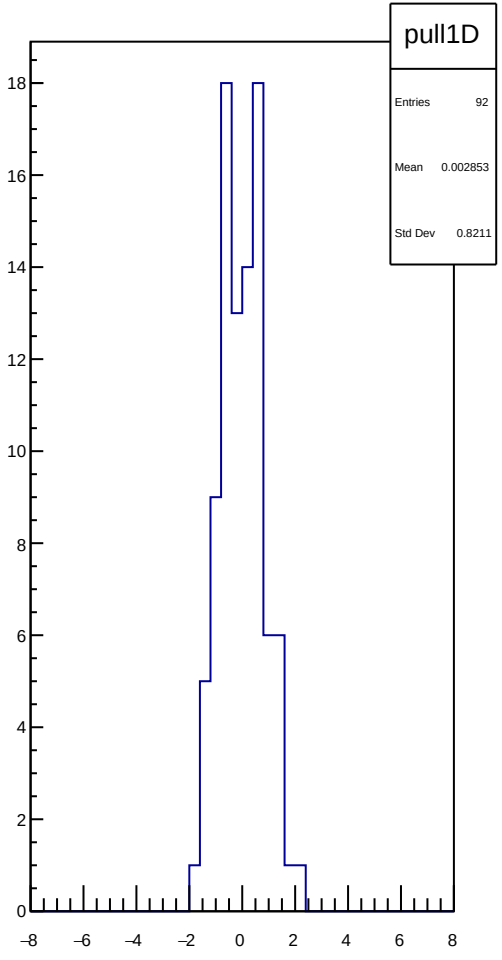

pull1D
Entries 92
Mean −0.002485
Std Dev 0.5429

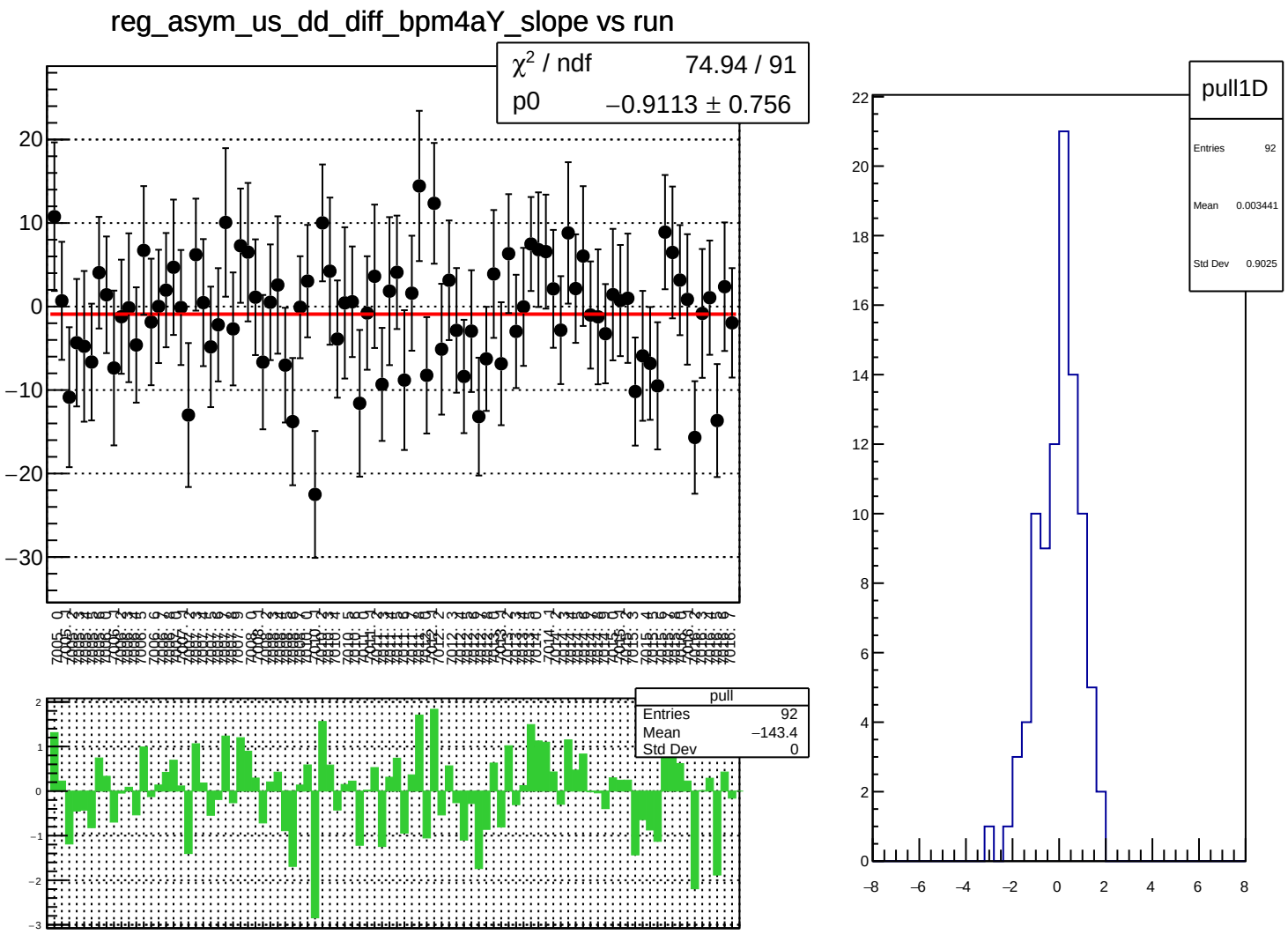

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.32 / 91
p0 19.51 ± 1.3
pull
Entries 92
Mean 375.9
Std Dev 0

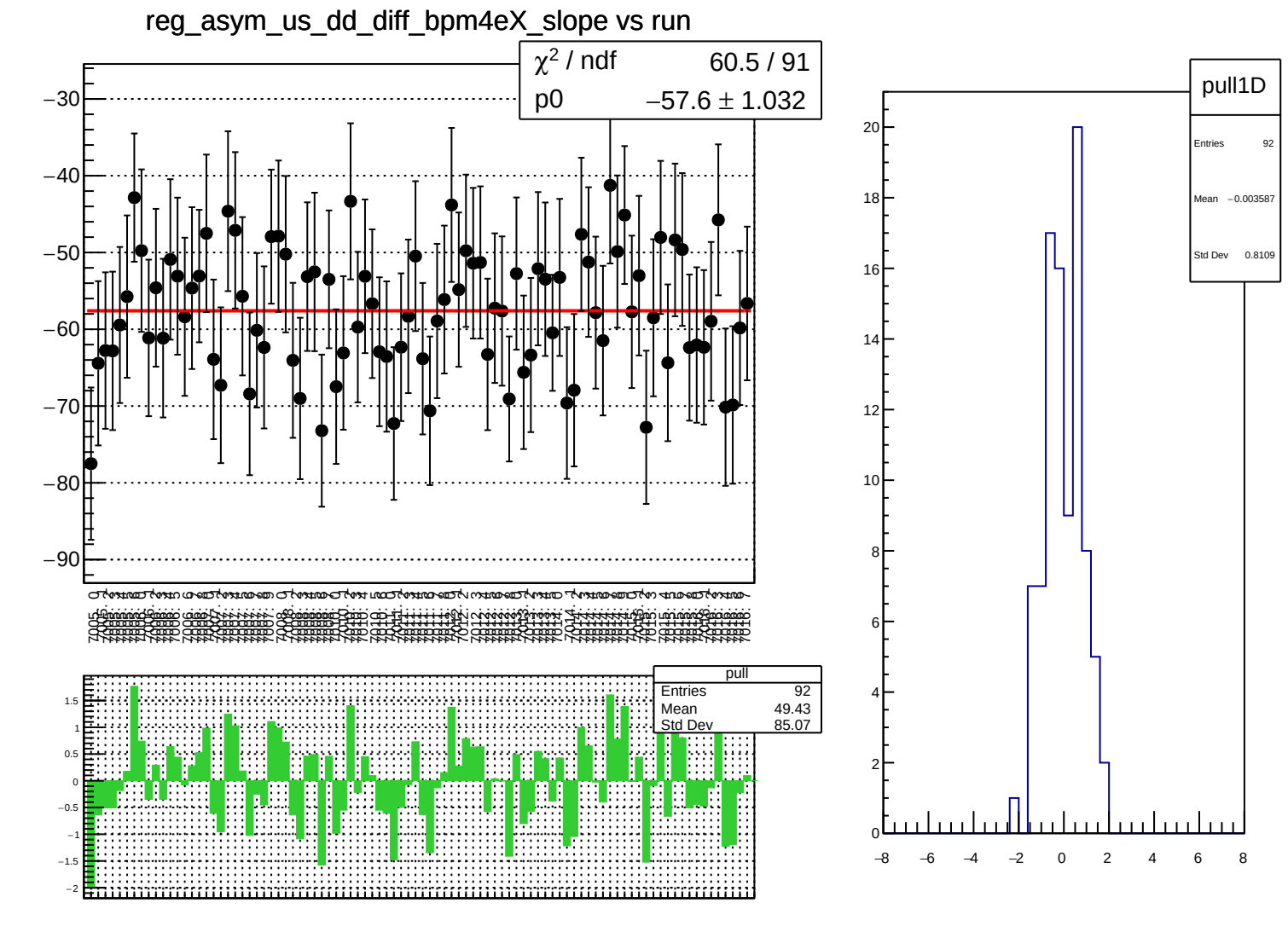

pull1D
Entries 92
Mean 0.01014
Std Dev 0.5246

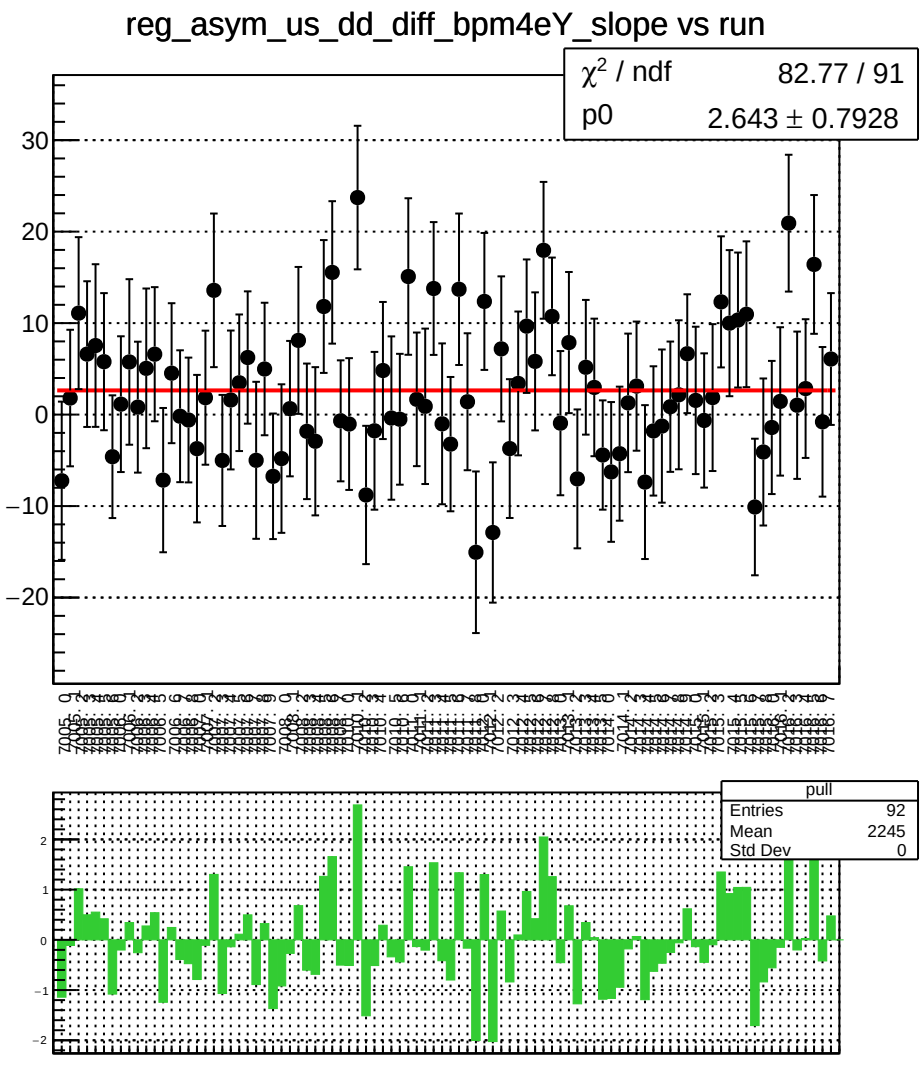

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 58.54 / 91
p0 −39.7 ± 0.05846
pull
Entries 92
Mean 396
Std Dev 0
pull1D
Entries 92
Mean −0.01827
Std Dev 0.7975

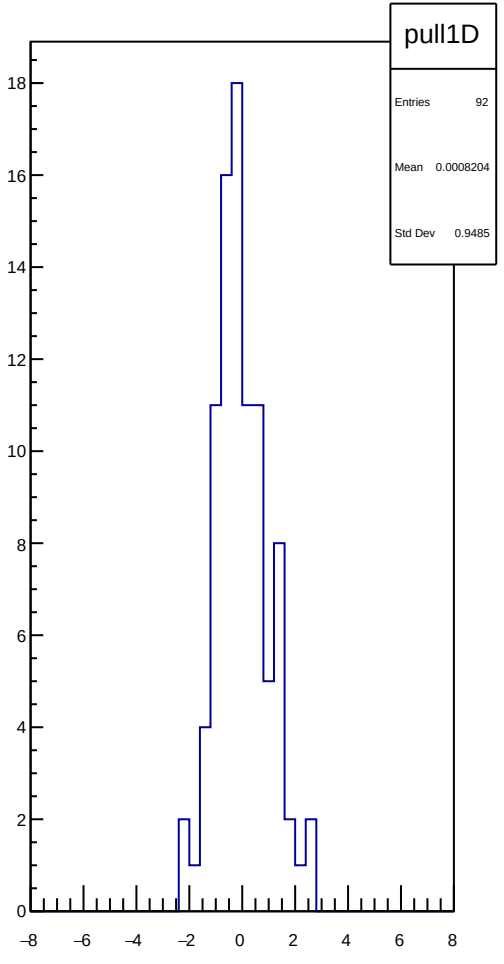

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 62.03 / 91
p0 −3.627 ± 1.114
pull
Entries 92
Mean −6.918
Std Dev 53.31

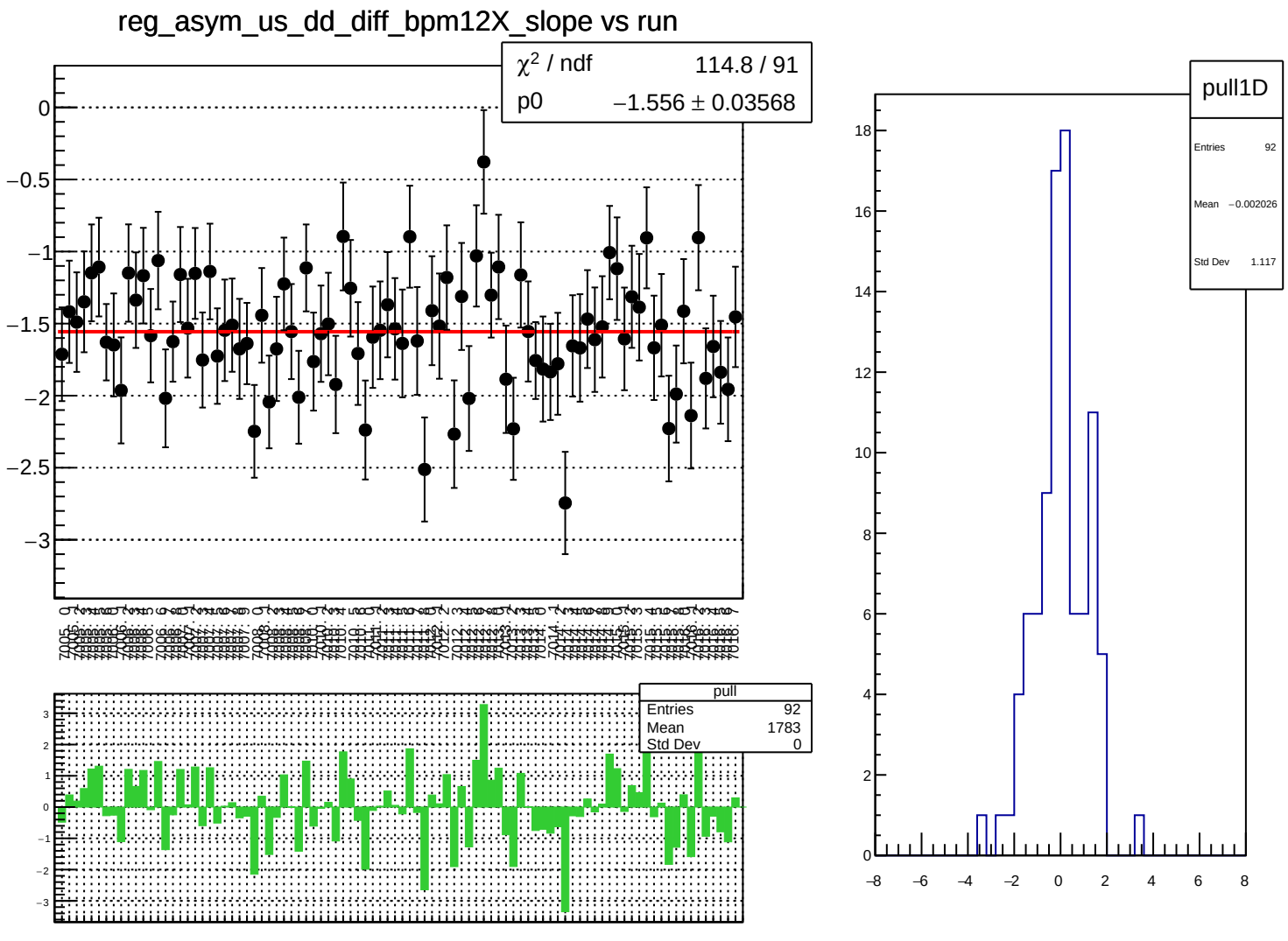

pull1D
Entries 92
Mean 0.002853
Std Dev 0.8211

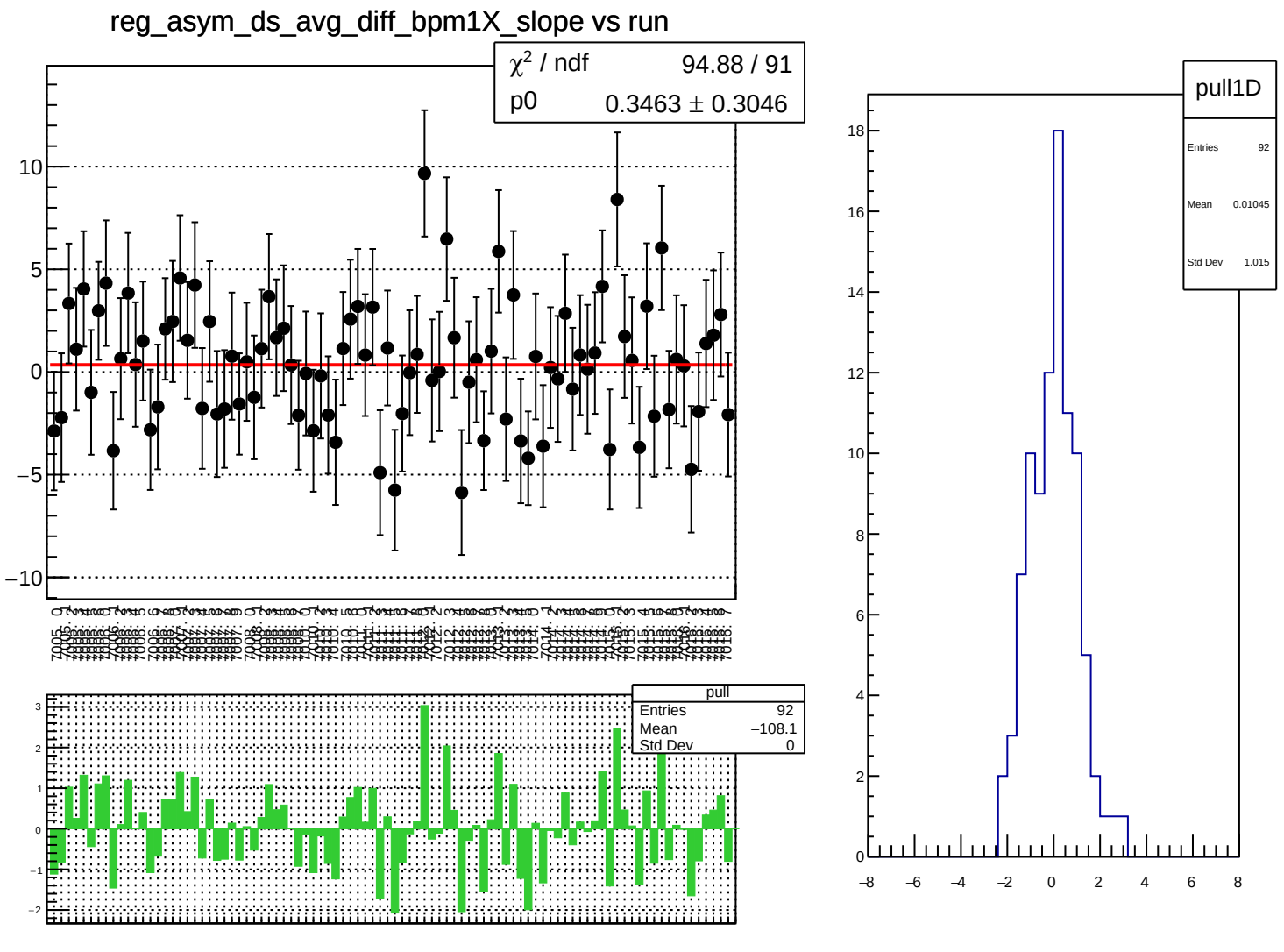

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.94 / 91
p0 −0.9113 ± 0.756
pull
Entries 92
Mean −143.4
Std Dev 0
pull1D
Entries 92
Mean 0.003441
Std Dev 0.9025

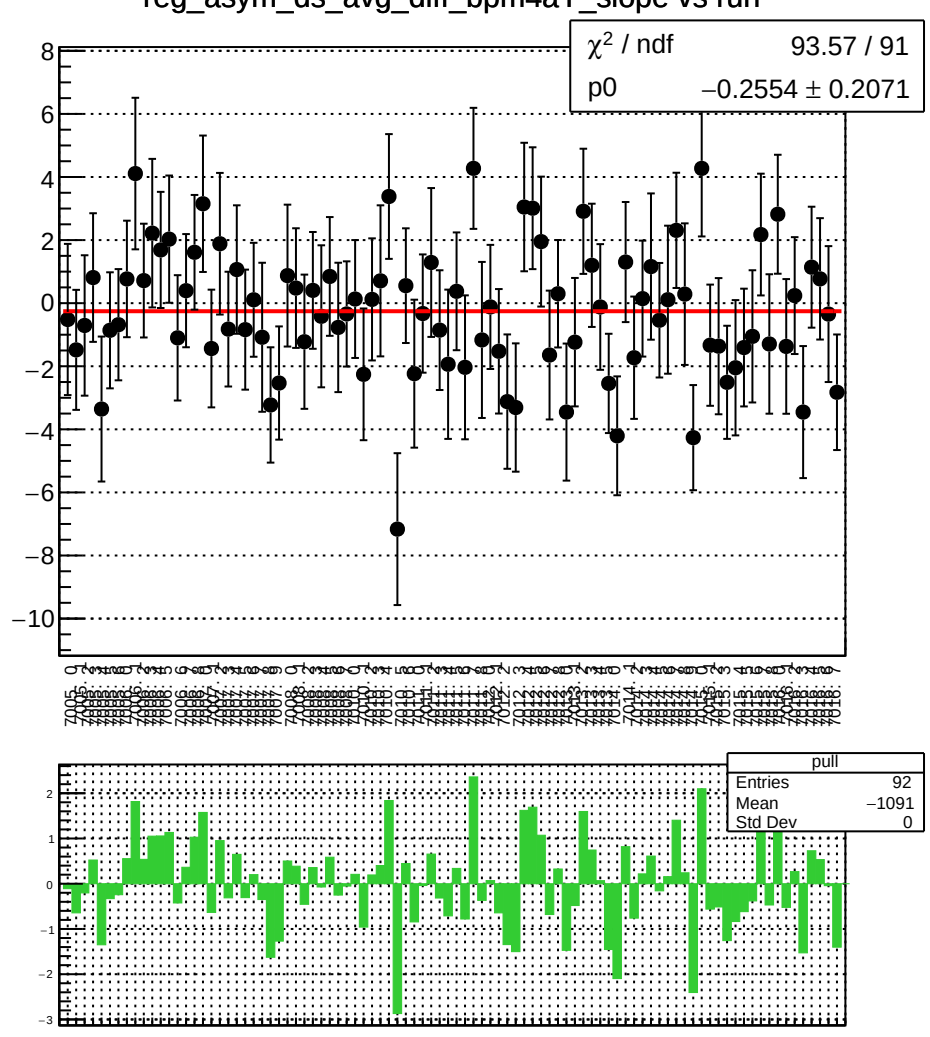

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.5 / 91
p0 −57.6 ± 1.032
pull
Entries 92
Mean 49.43
Std Dev 85.07
pull1D
Entries 92
Mean −0.003587
Std Dev 0.8109

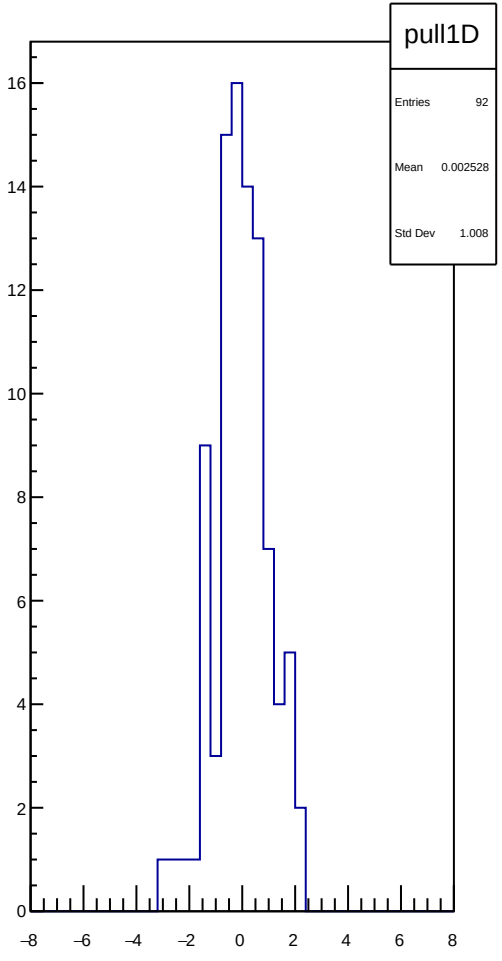

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.77 / 91
p0 2.643 ± 0.7928
pull
Entries 92
Mean 2245
Std Dev 0

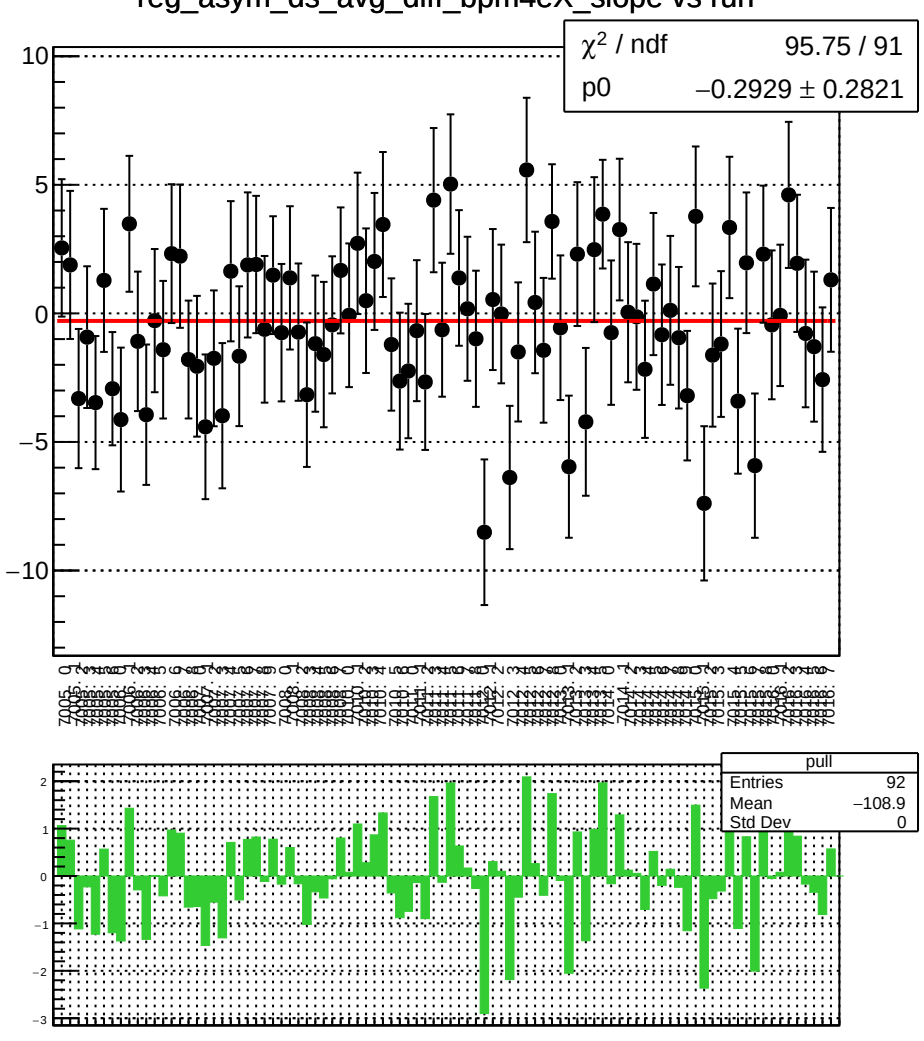

pull1D
Entries 92
Mean 0.0008204
Std Dev 0.9485

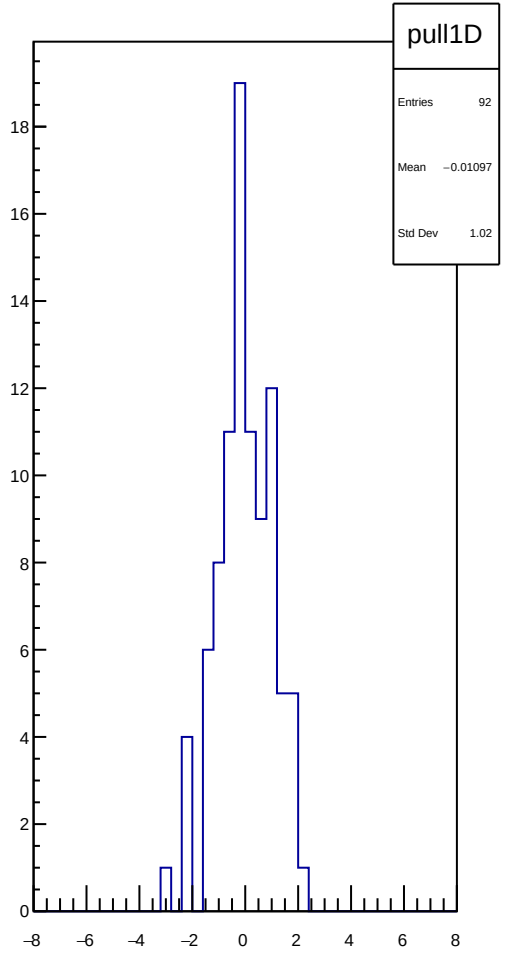

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 114.8 / 91
p0 −1.556 ± 0.03568
pull
Entries 92
Mean 1783
Std Dev 0
pull1D
Entries 92
Mean −0.002026
Std Dev 1.117

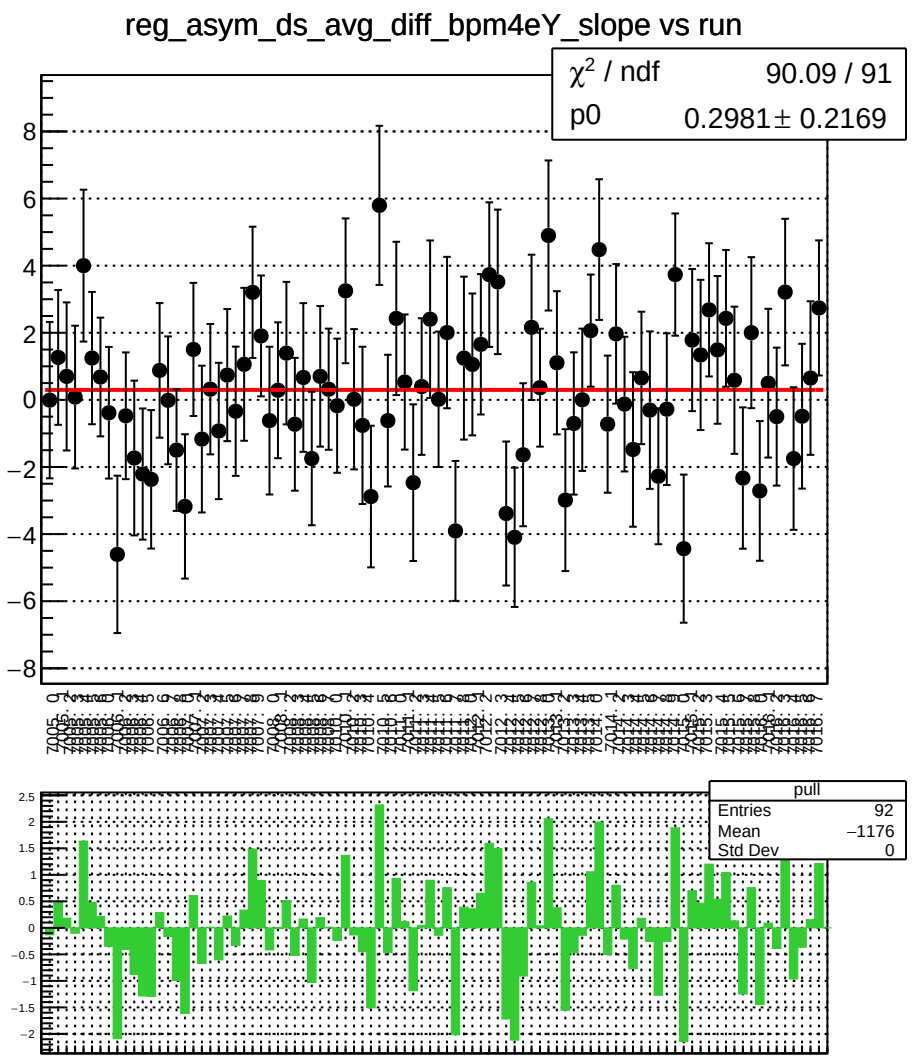

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 94.88 / 91
p0 0.3463 ± 0.3046
pull
Entries 92
Mean −108.1
Std Dev 0
pull1D
Entries 92
Mean 0.01045
Std Dev 1.015

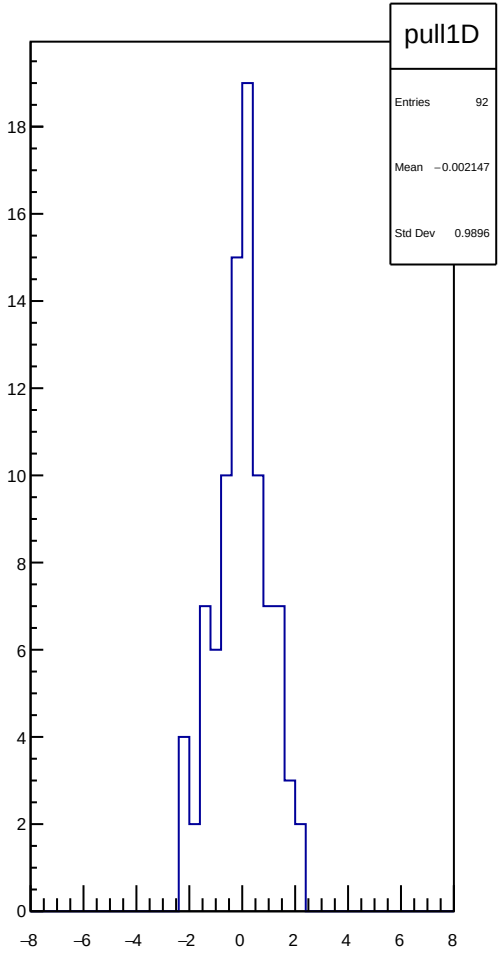

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 93.57 / 91
p0 −0.2554 ± 0.2071
pull
Entries 92
Mean −1091
Std Dev 0

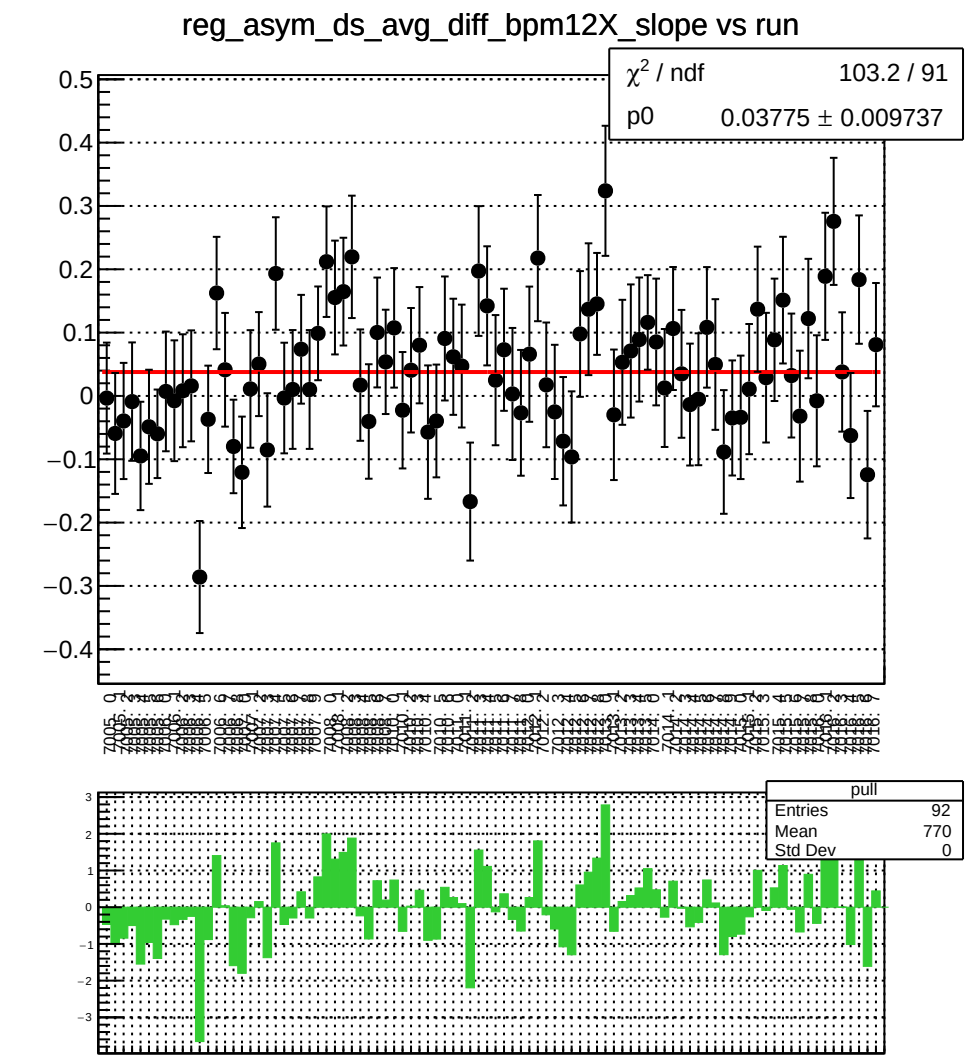

pull1D
Entries 92
Mean 0.002528
Std Dev 1.008

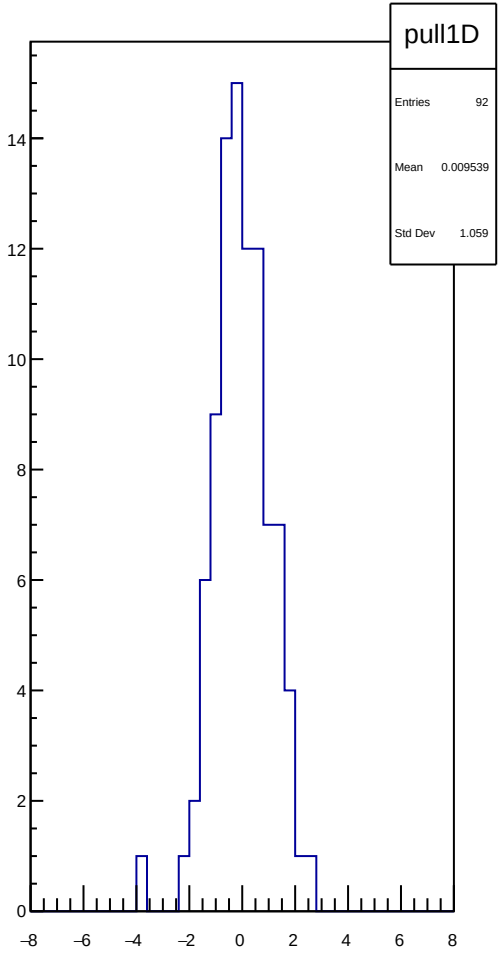

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.75 / 91
p0 −0.2929 ± 0.2821
pull
Entries 92
Mean −108.9
Std Dev 0

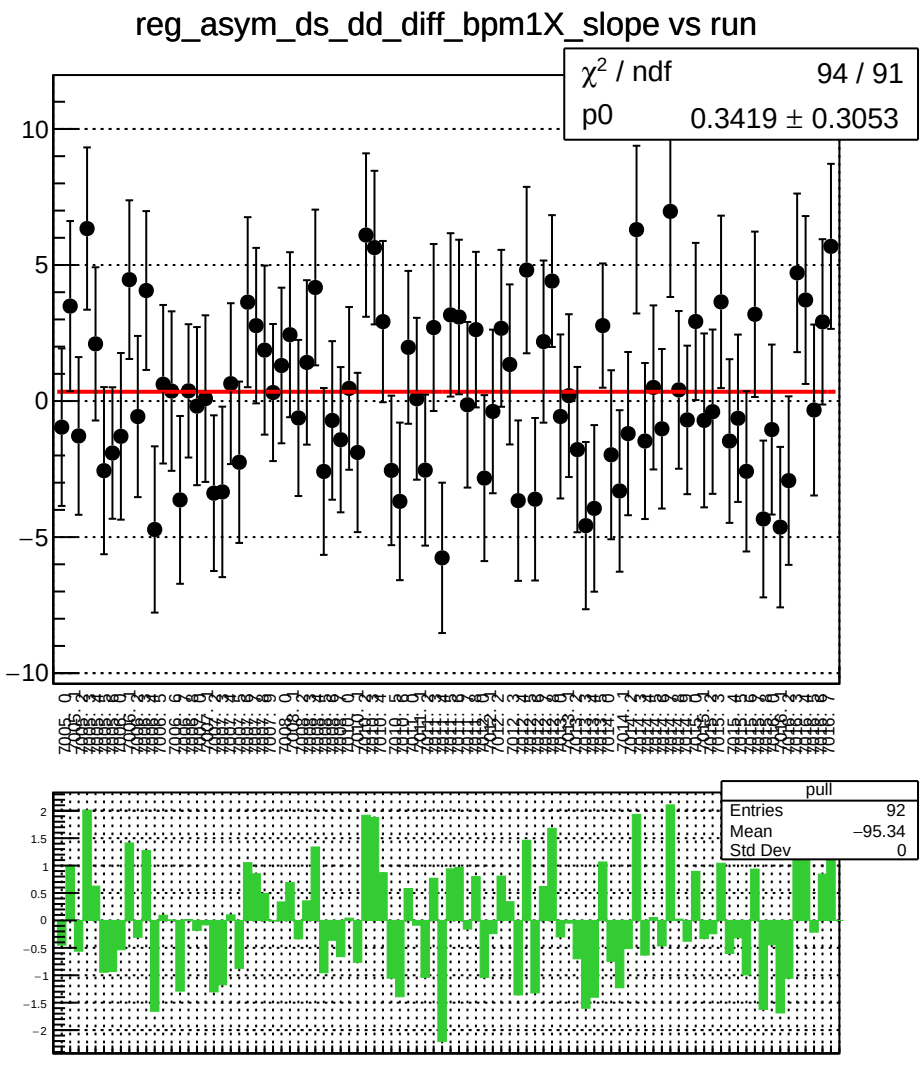

pull1D
Entries 92
Mean −0.01097
Std Dev 1.02

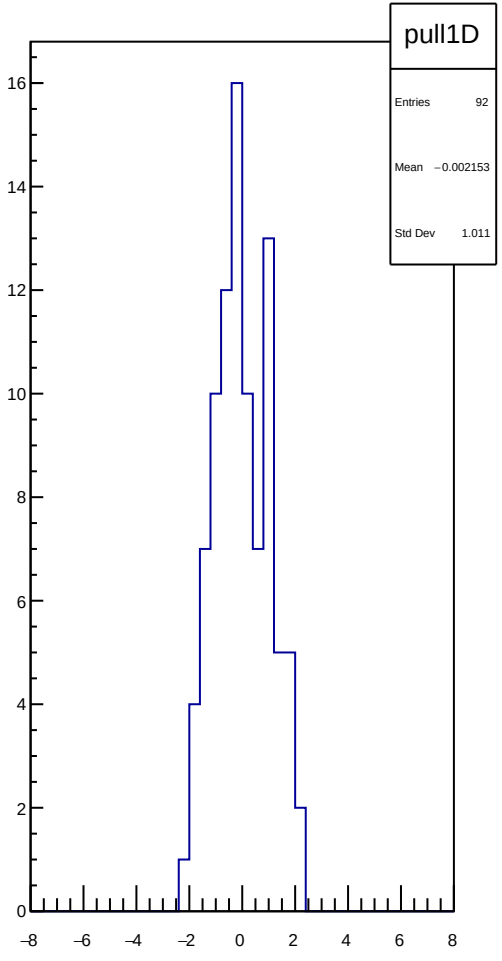

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 90.09 / 91
p0 0.2981 ± 0.2169
pull
Entries 92
Mean −1176
Std Dev 0

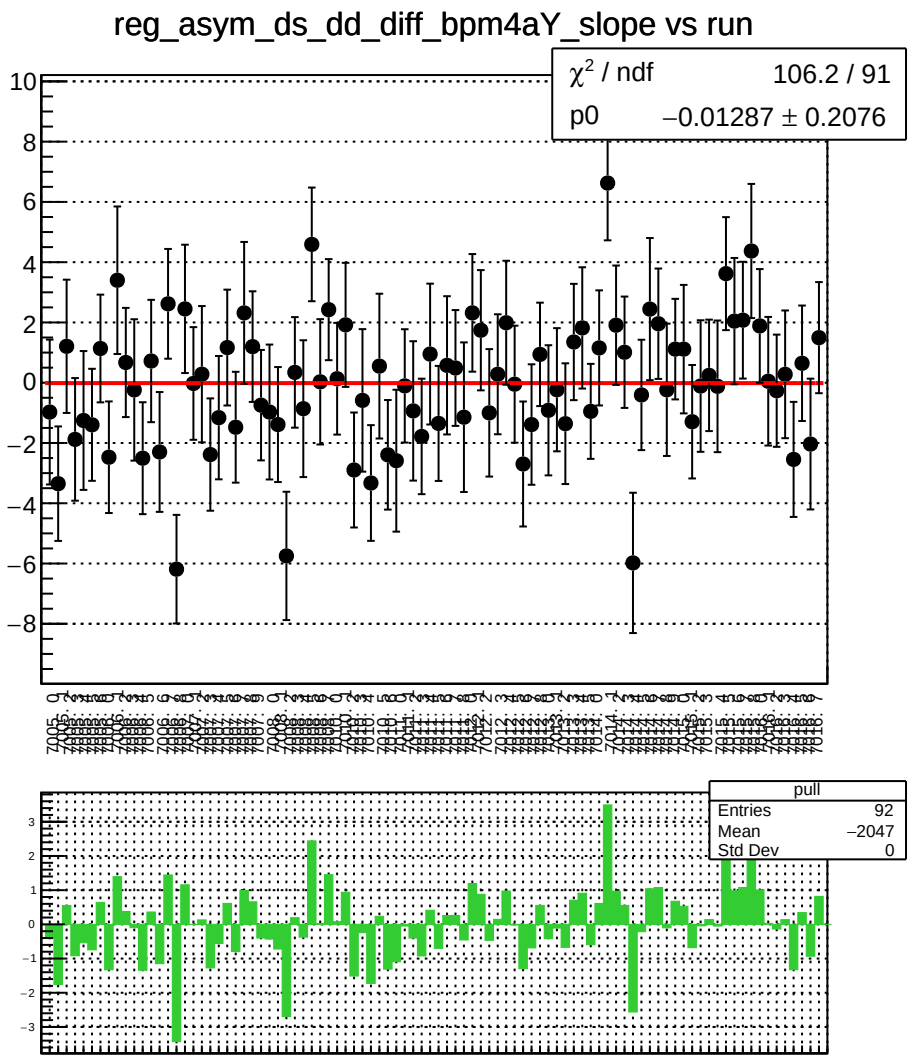

pull1D
Entries 92
Mean −0.002147
Std Dev 0.9896

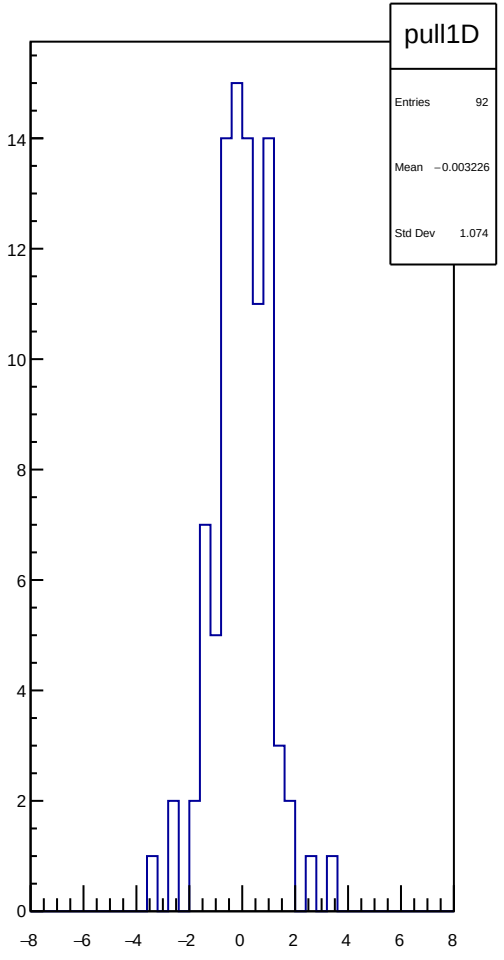

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 103.2 / 91
p0 0.03775 ± 0.009737
pull
Entries 92
Mean 770
Std Dev 0

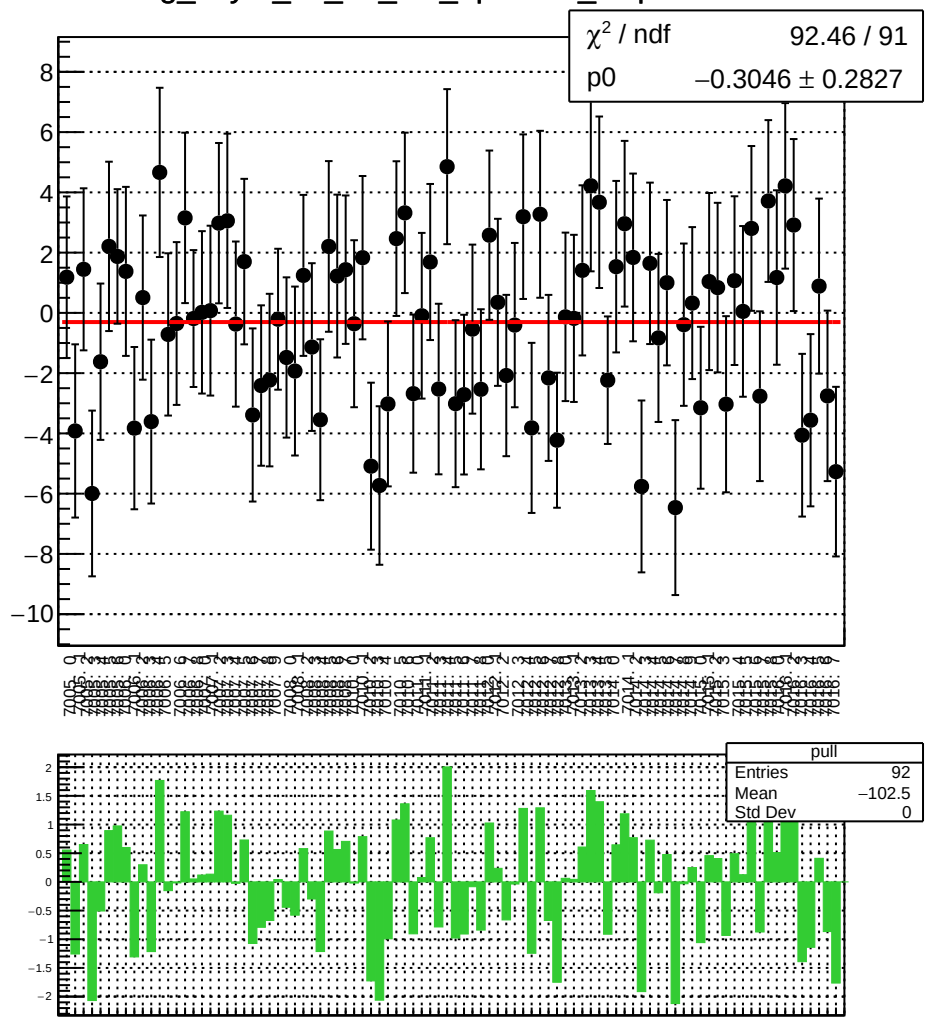

pull1D
Entries 92
Mean 0.009539
Std Dev 1.059

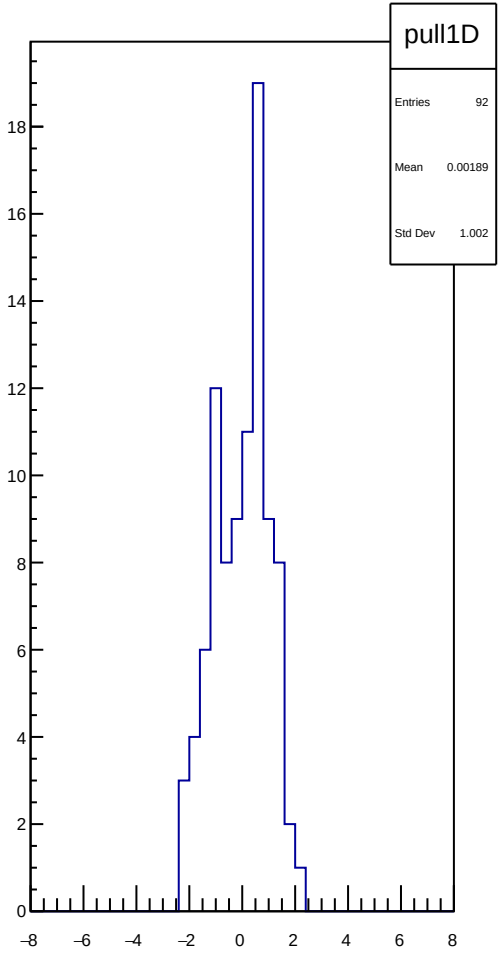

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 94 / 91
p0 0.3419 ± 0.3053
pull
Entries 92
Mean −95.34
Std Dev 0

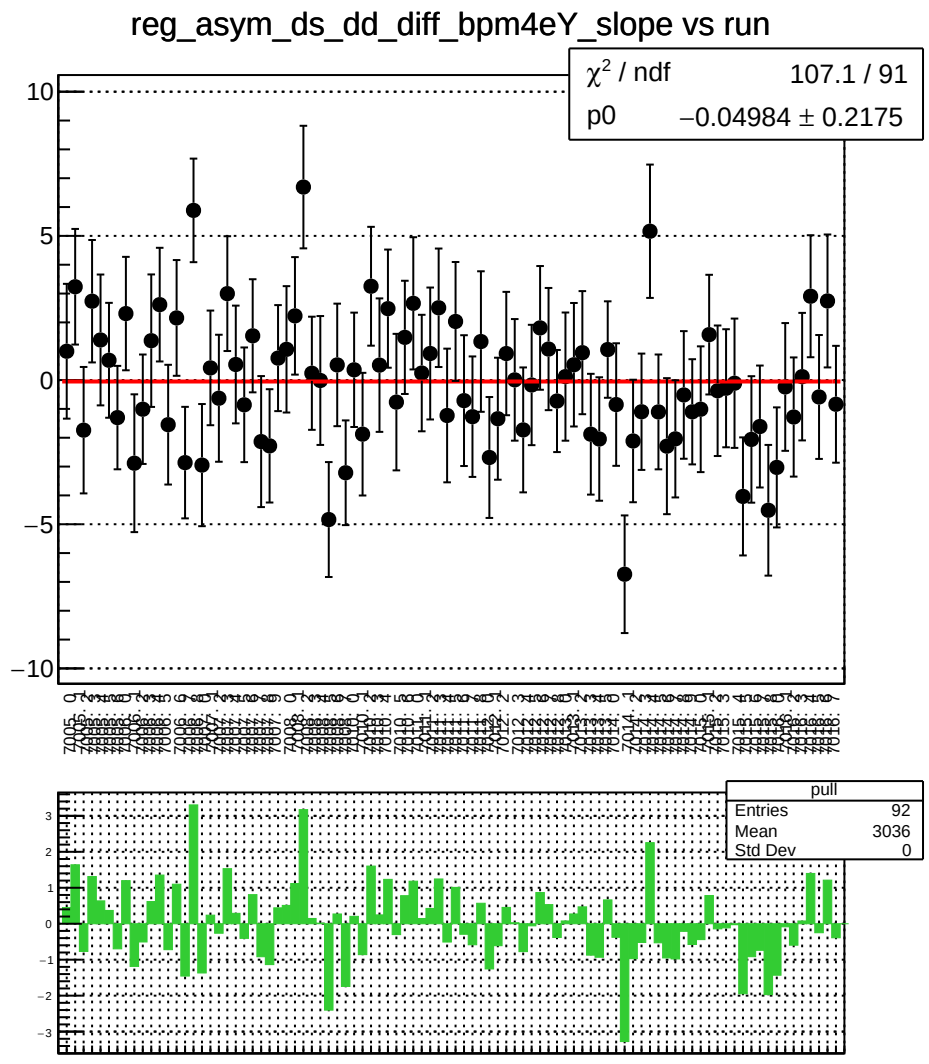

pull1D
Entries 92
Mean −0.002153
Std Dev 1.011

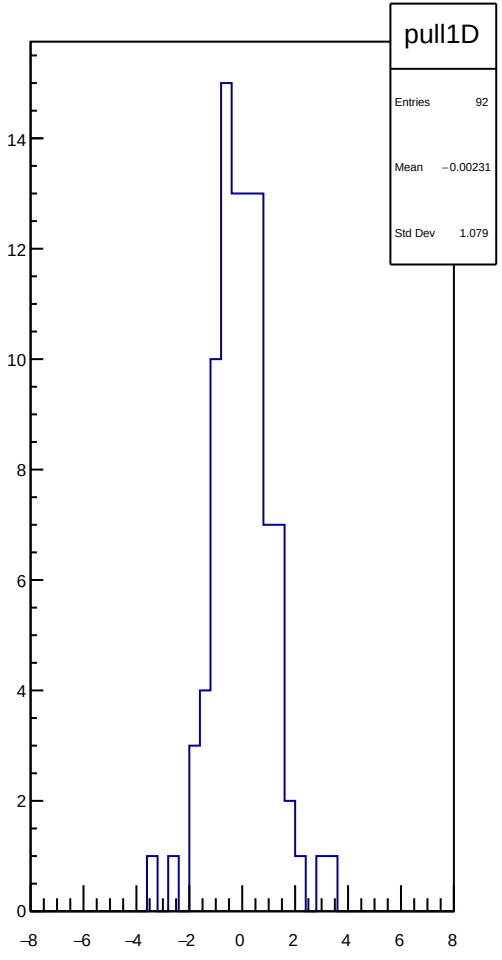

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 106.2 / 91
p0 −0.01287 ± 0.2076
pull
Entries 92
Mean −2047
Std Dev 0

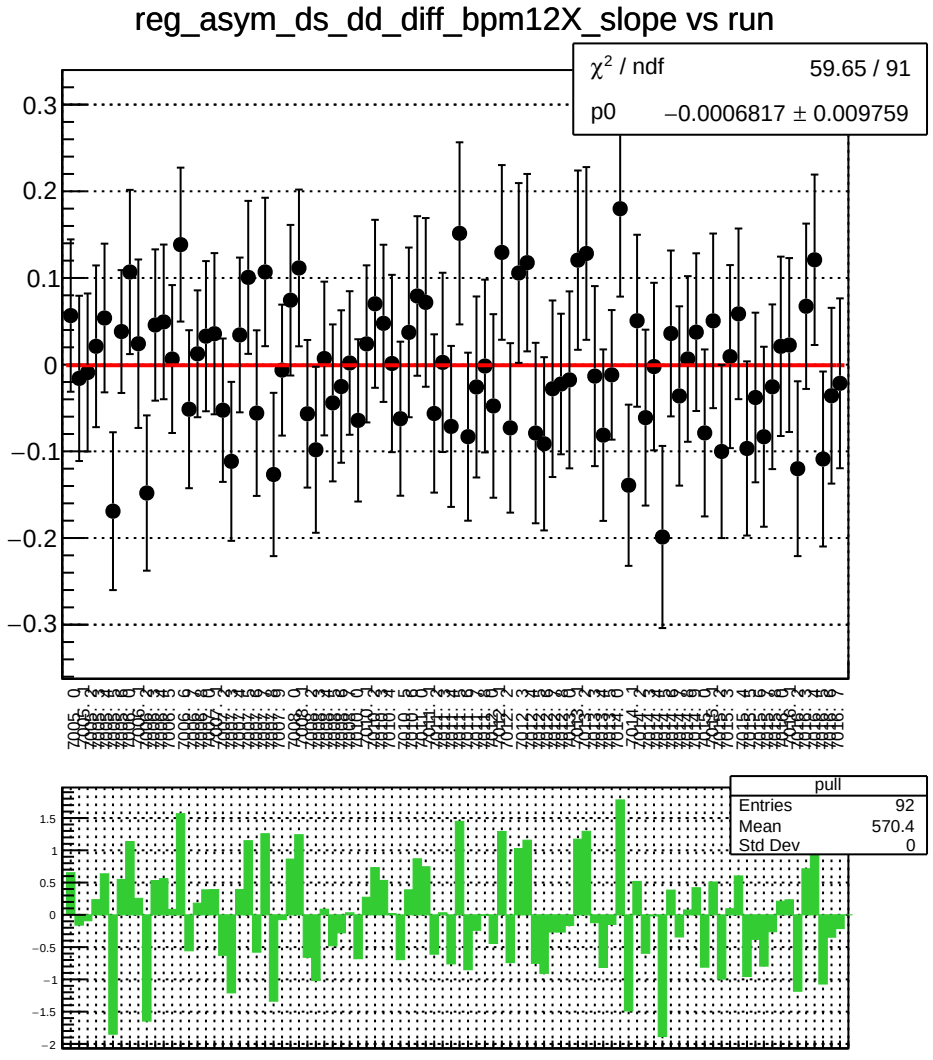

pull1D
Entries 92
Mean −0.003226
Std Dev 1.074

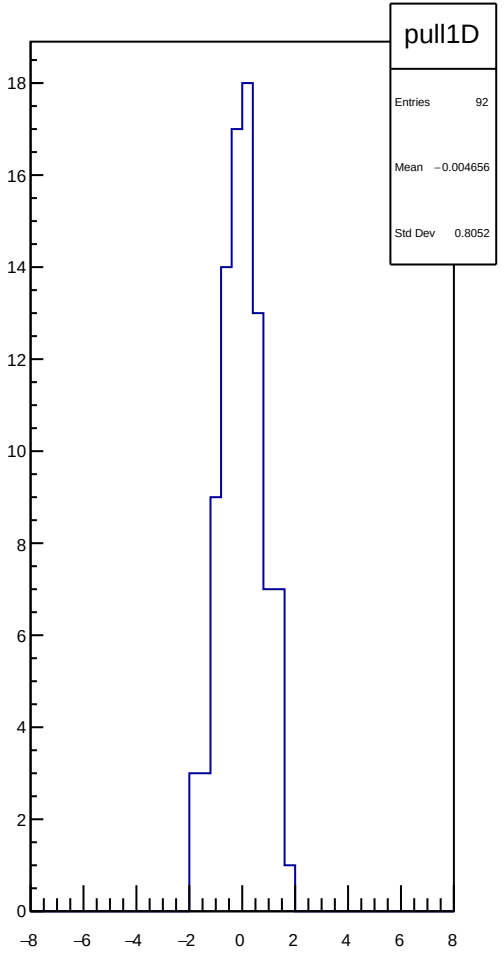

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.46 / 91
p0 −0.3046 ± 0.2827
pull
Entries 92
Mean −102.5
Std Dev 0

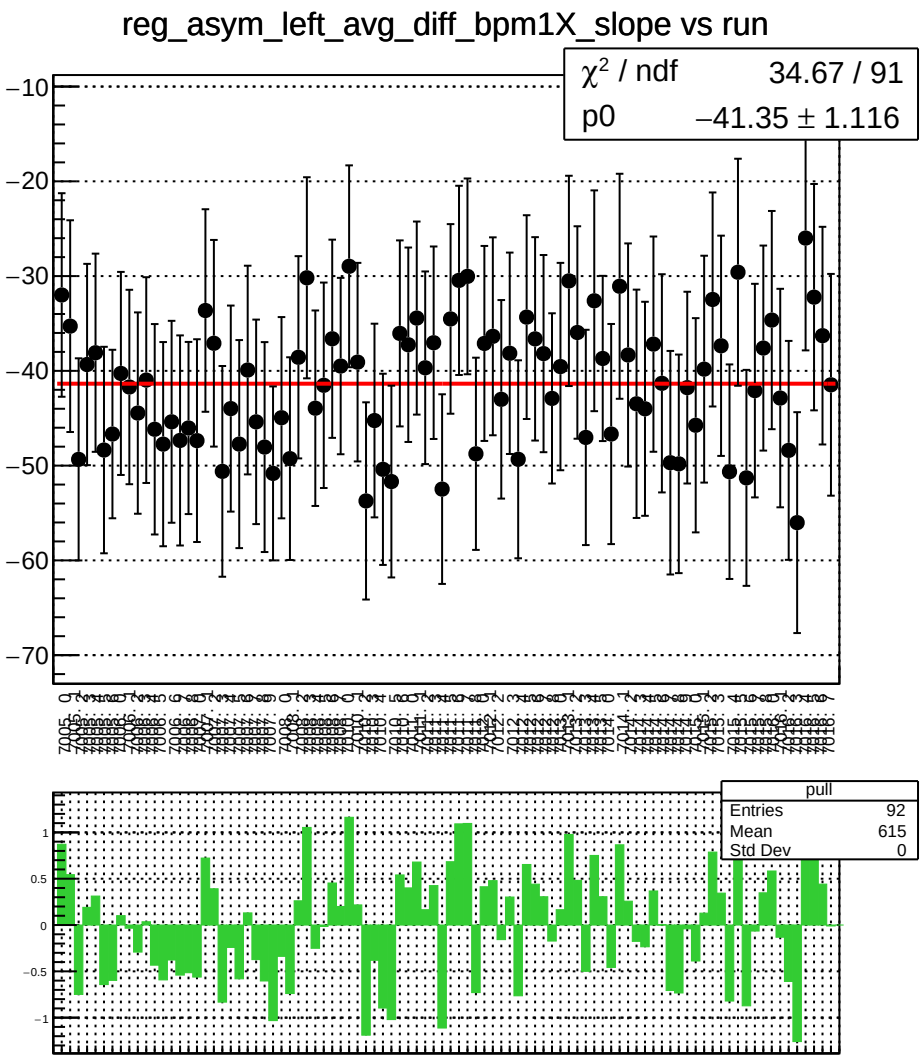

pull1D
Entries 92
Mean 0.00189
Std Dev 1.002

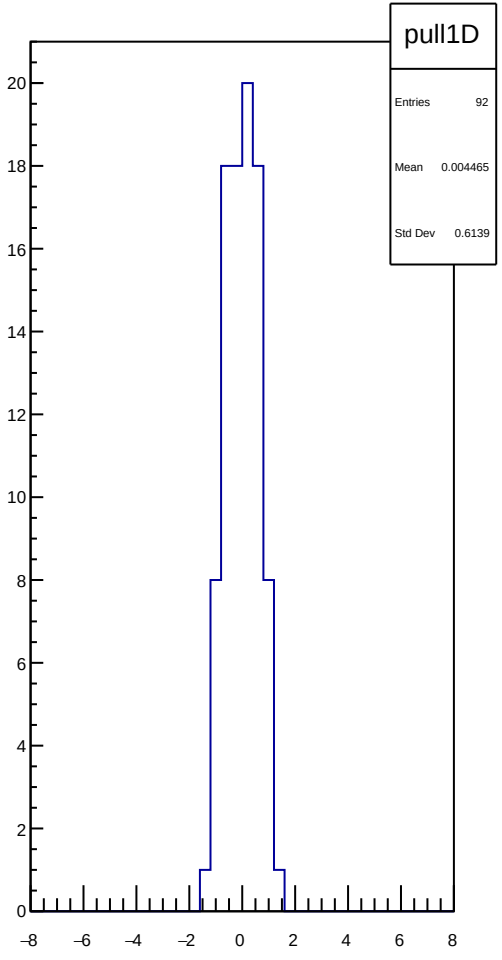

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.1 / 91
p0 −0.04984 ± 0.2175
pull
Entries 92
Mean 3036
Std Dev 0

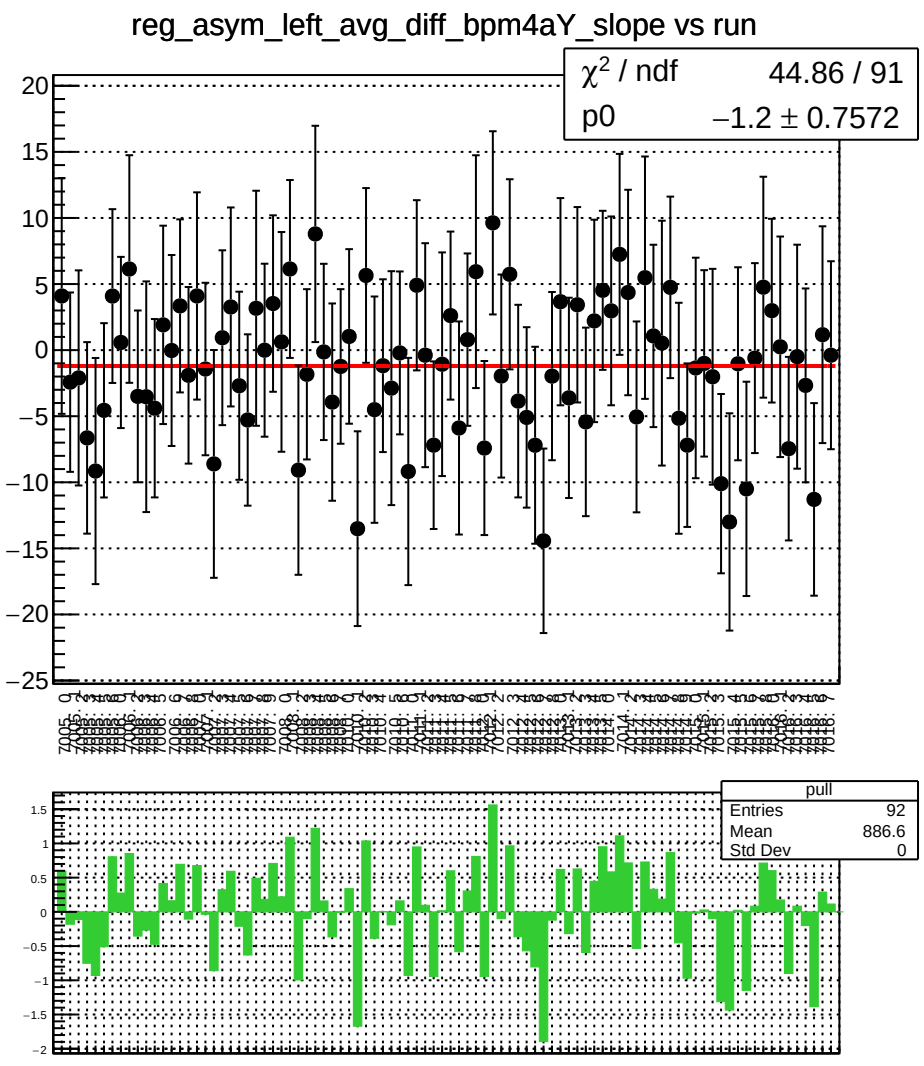

pull1D
Entries 92
Mean −0.00231
Std Dev 1.079

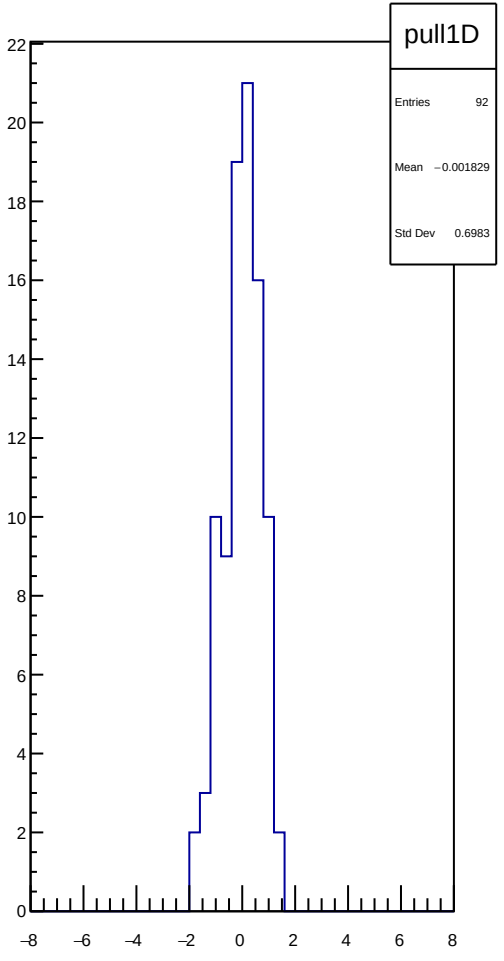

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 59.65 / 91
p0 −0.0006817 ± 0.009759
pull
Entries 92
Mean 570.4
Std Dev 0

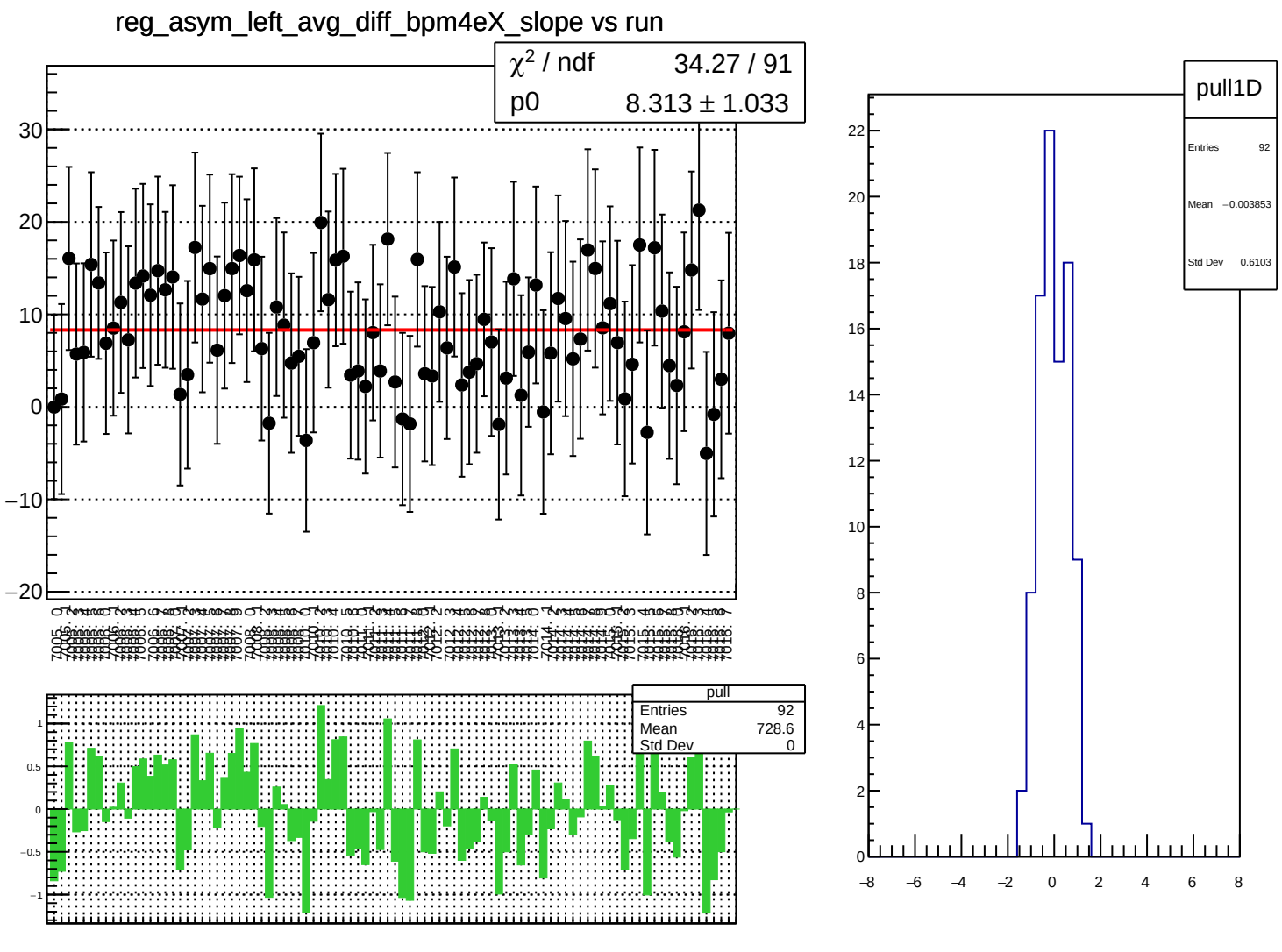

pull1D
Entries 92
Mean −0.004656
Std Dev 0.8052

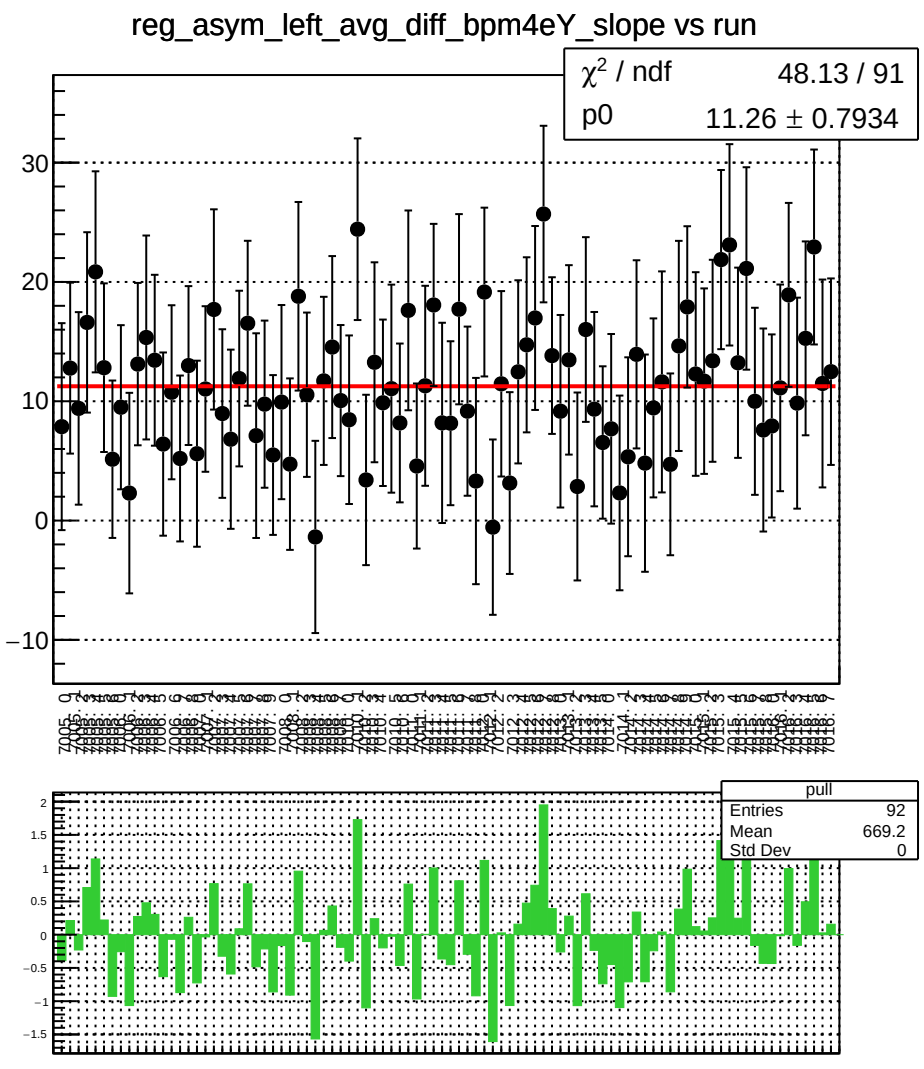

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 34.67 / 91
p0 −41.35 ± 1.116
pull
Entries 92
Mean 615
Std Dev 0

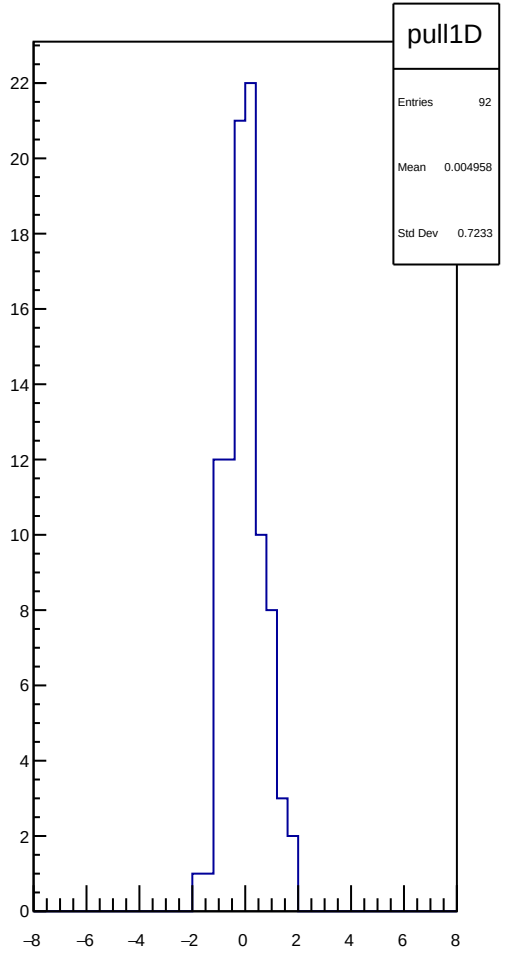

pull1D
Entries 92
Mean 0.004465
Std Dev 0.6139

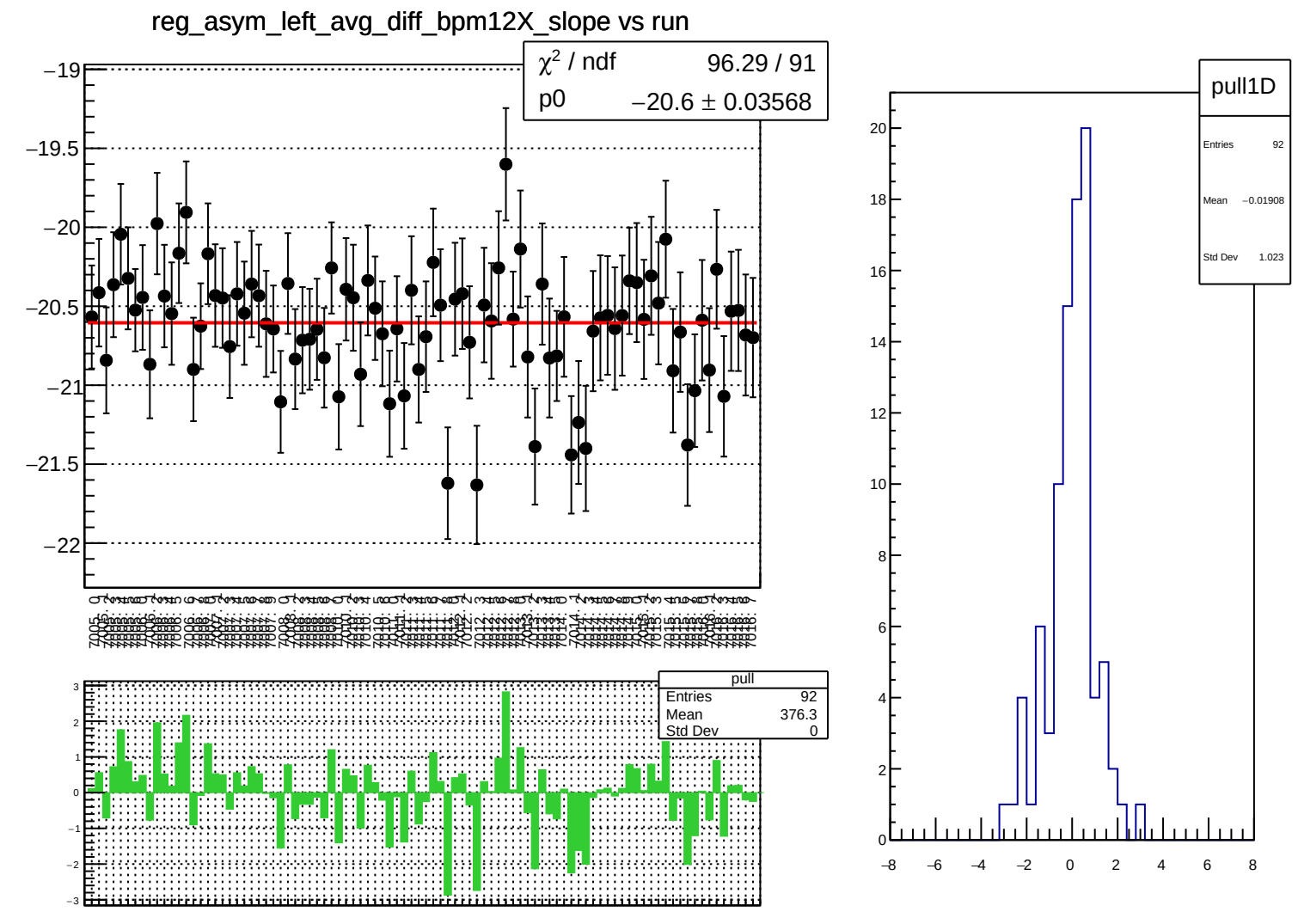

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.86 / 91
p0 −1.2 ± 0.7572
pull
Entries 92
Mean 886.6
Std Dev 0

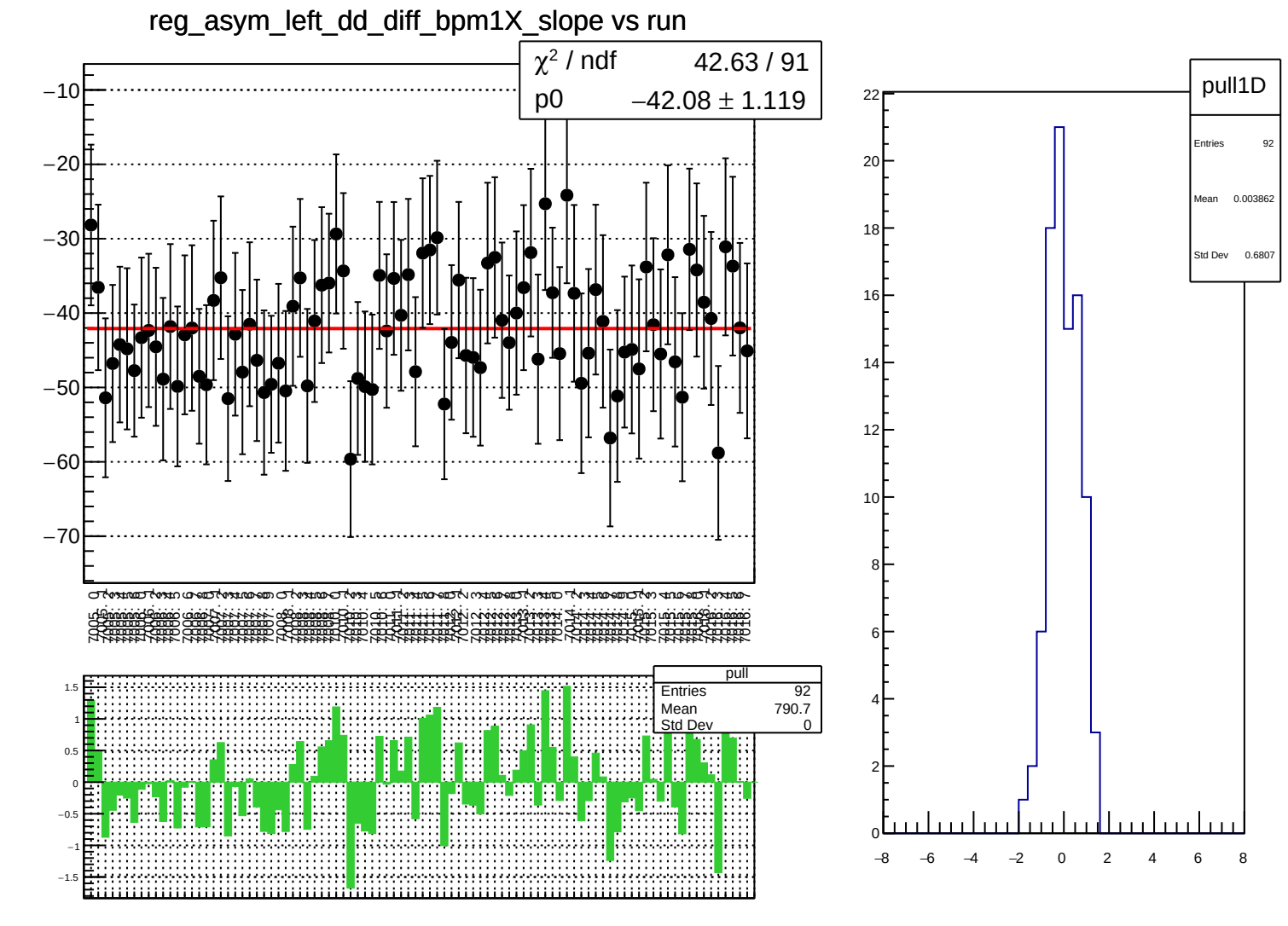

pull1D
Entries 92
Mean −0.001829
Std Dev 0.6983

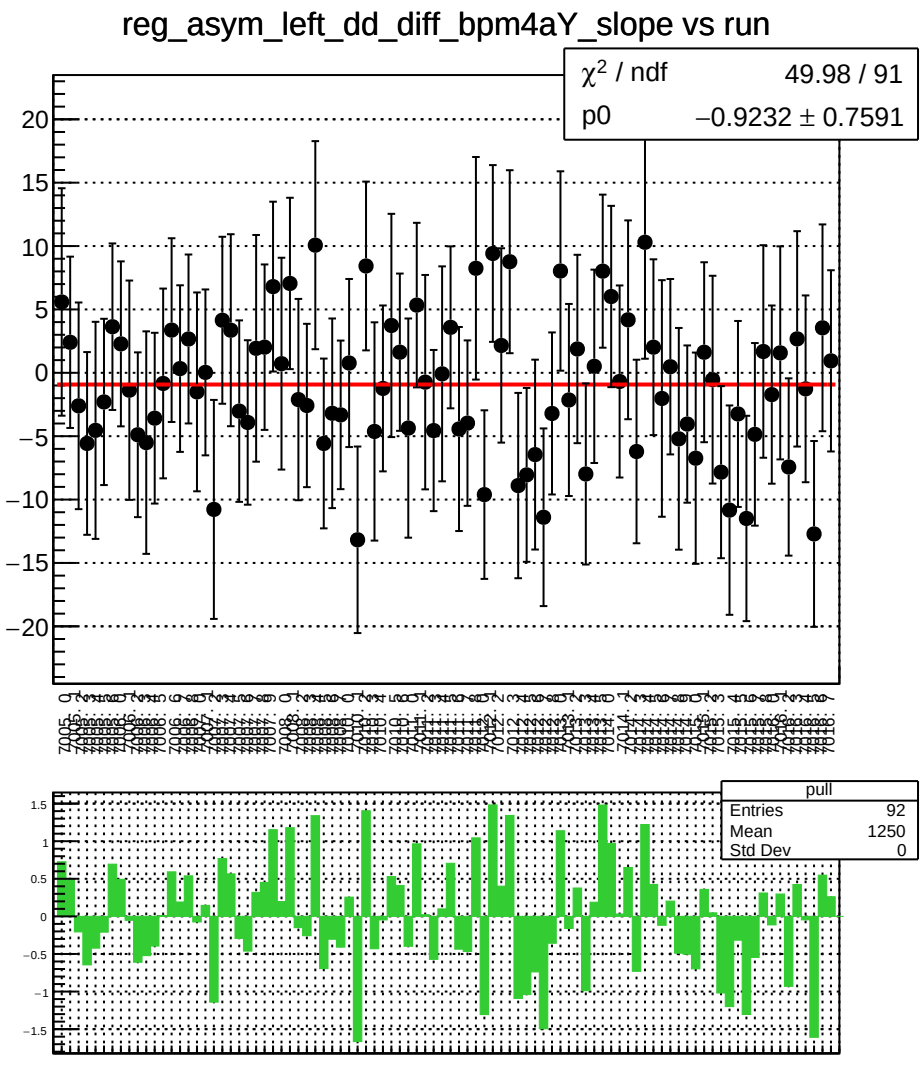

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.27 / 91
p0 8.313 ± 1.033
pull
Entries 92
Mean 728.6
Std Dev 0
pull1D
Entries 92
Mean −0.003853
Std Dev 0.6103

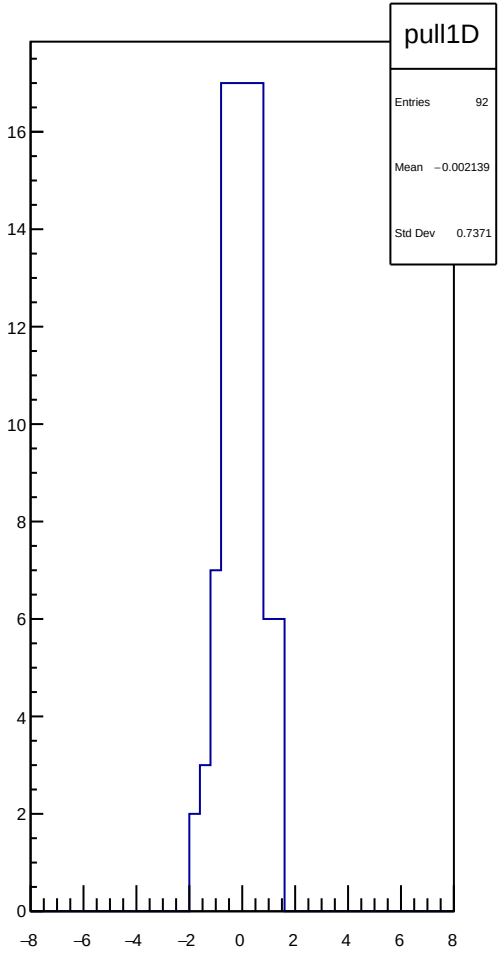

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.13 / 91
p0 11.26 ± 0.7934
pull
Entries 92
Mean 669.2
Std Dev 0

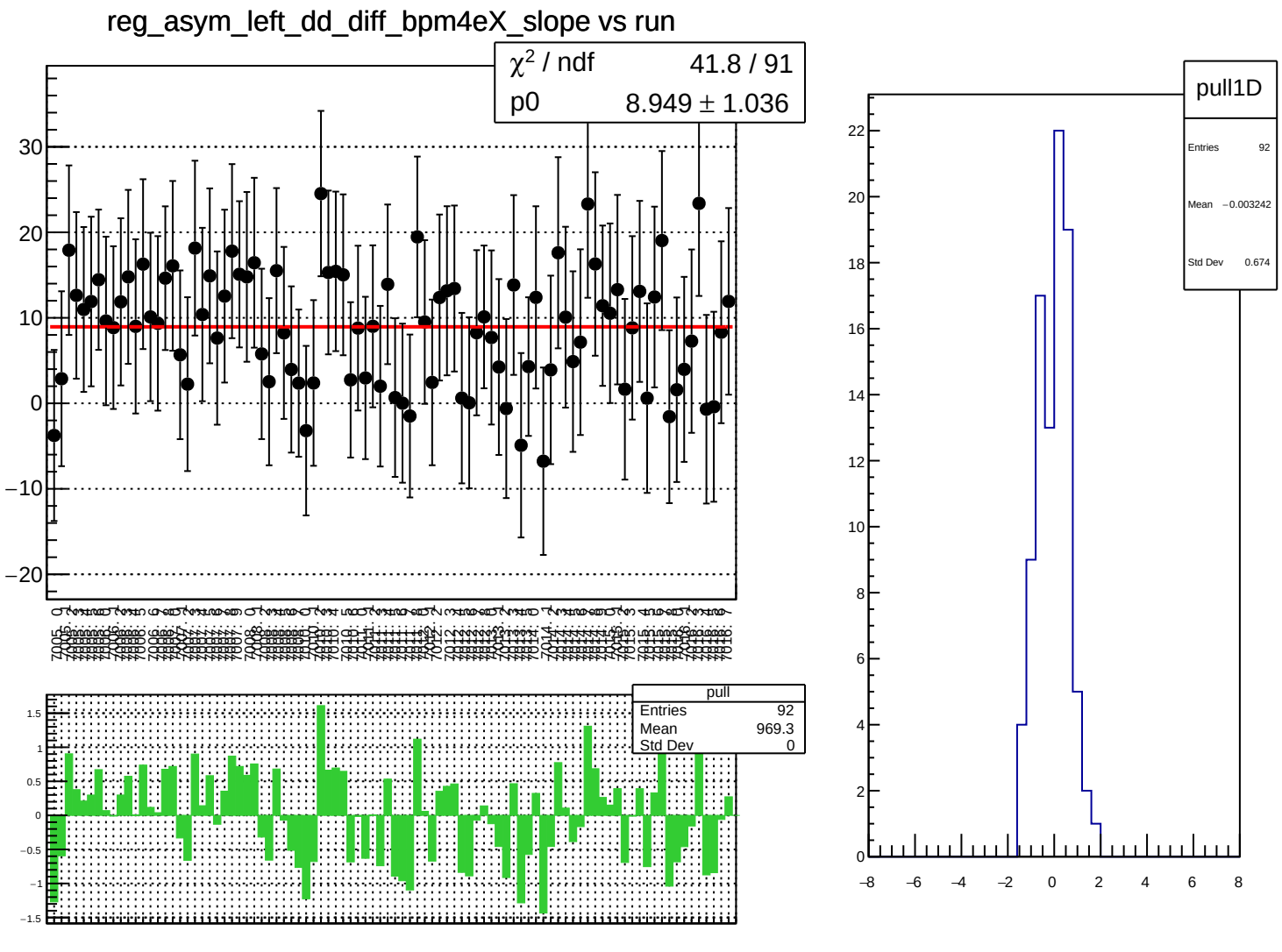

pull1D
Entries 92
Mean 0.004958
Std Dev 0.7233

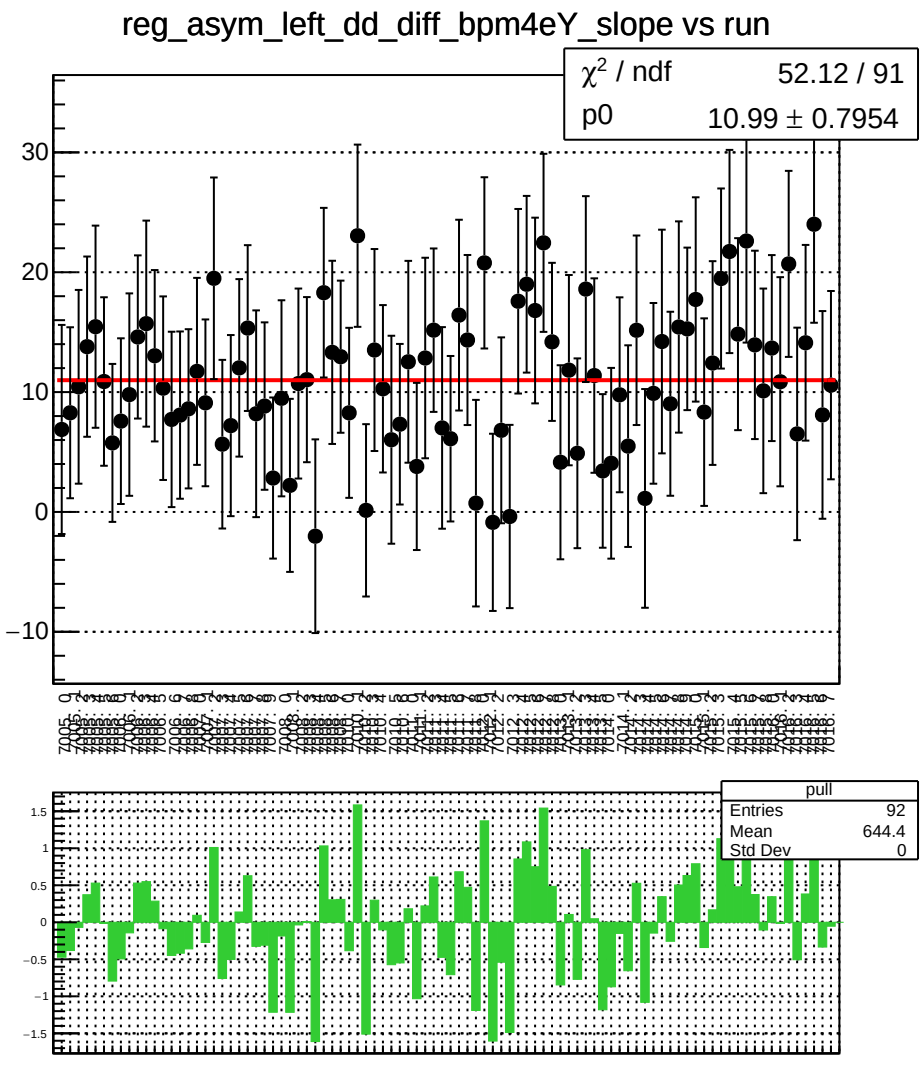

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 96.29 / 91
p0 −20.6 ± 0.03568
pull
Entries 92
Mean 376.3
Std Dev 0
pull1D
Entries 92
Mean −0.01908
Std Dev 1.023

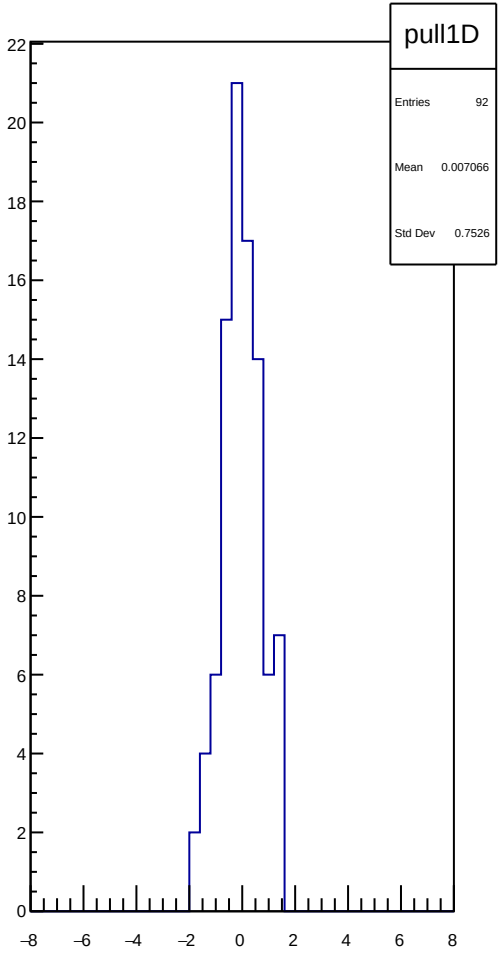

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 42.63 / 91
p0 −42.08 ± 1.119
pull
Entries 92
Mean 790.7
Std Dev 0
pull1D
Entries 92
Mean 0.003862
Std Dev 0.6807

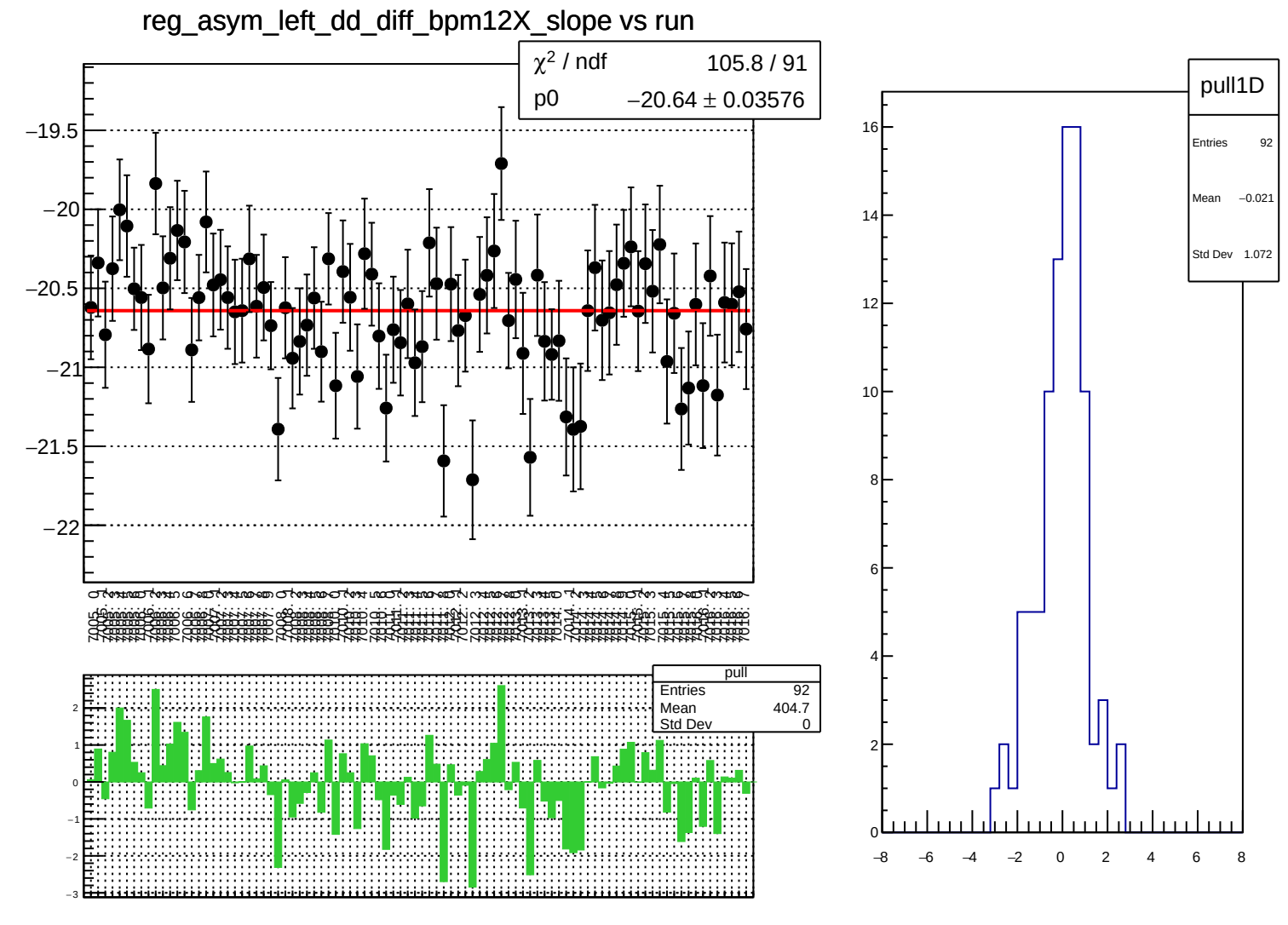

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.98 / 91
p0 −0.9232 ± 0.7591
pull
Entries 92
Mean 1250
Std Dev 0

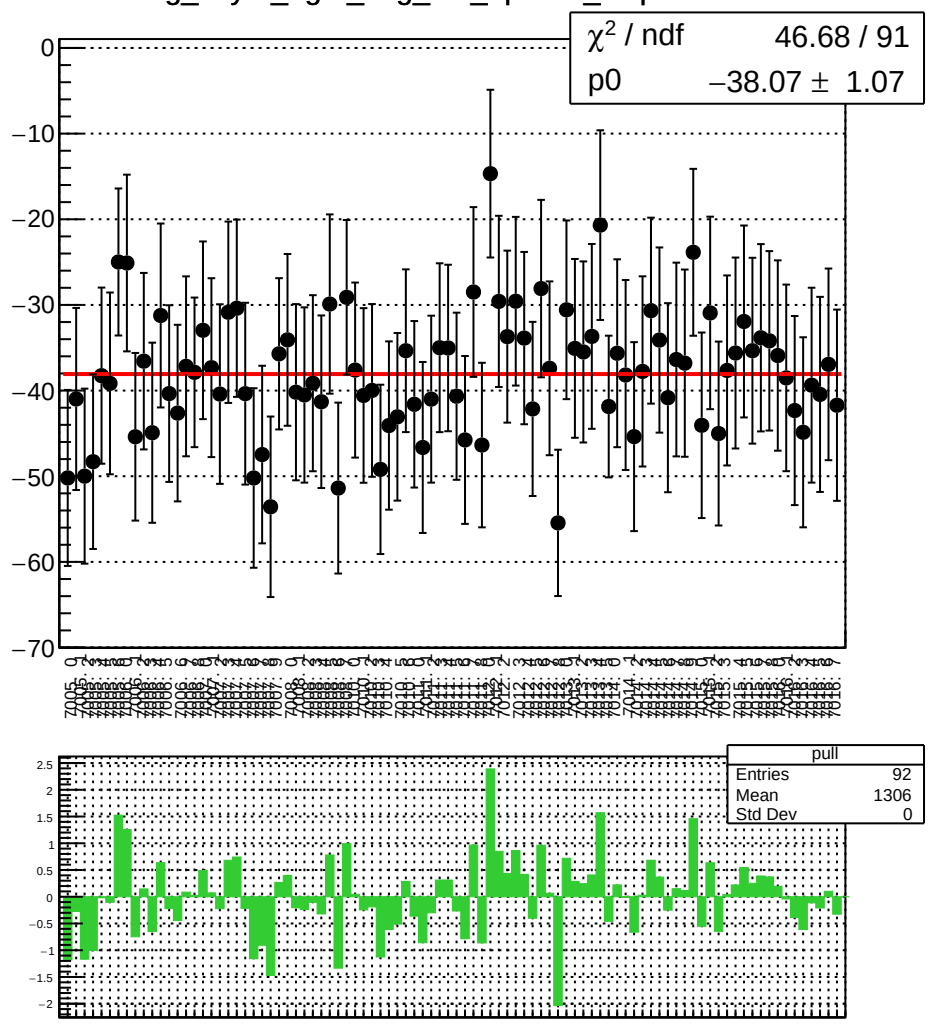

pull1D
Entries 92
Mean −0.002139
Std Dev 0.7371

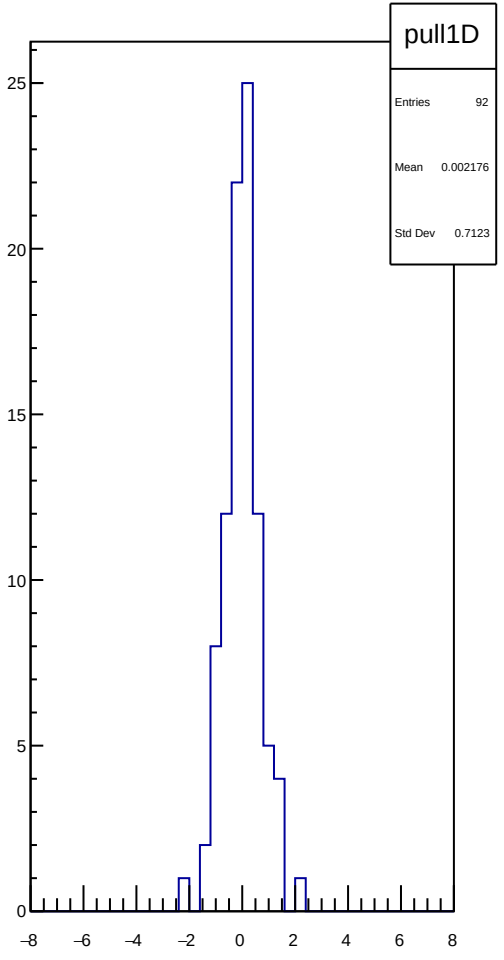

reg_asym_left_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 41.8 / 91
p0 8.949 ± 1.036
pull
Entries 92
Mean 969.3
Std Dev 0
pull1D
Entries 92
Mean −0.003242
Std Dev 0.674

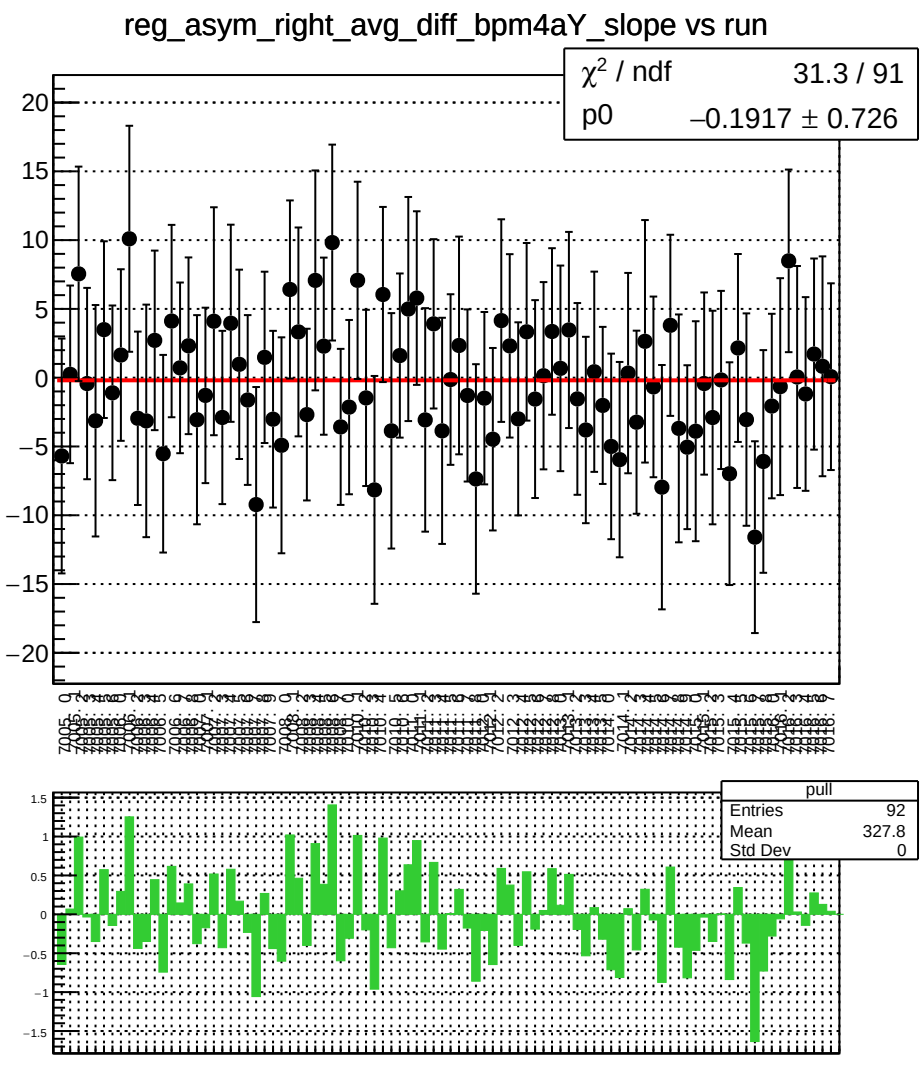

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.12 / 91
p0 10.99 ± 0.7954
pull
Entries 92
Mean 644.4
Std Dev 0

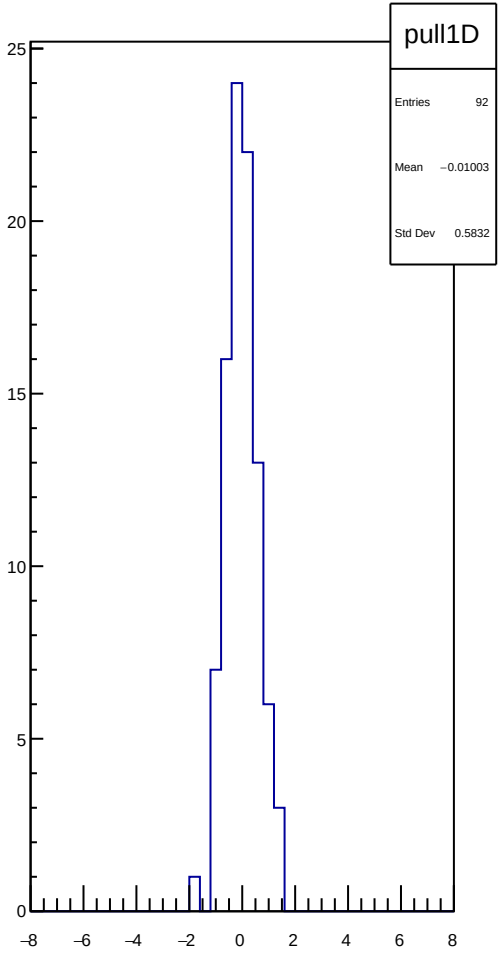

pull1D
Entries 92
Mean 0.007066
Std Dev 0.7526

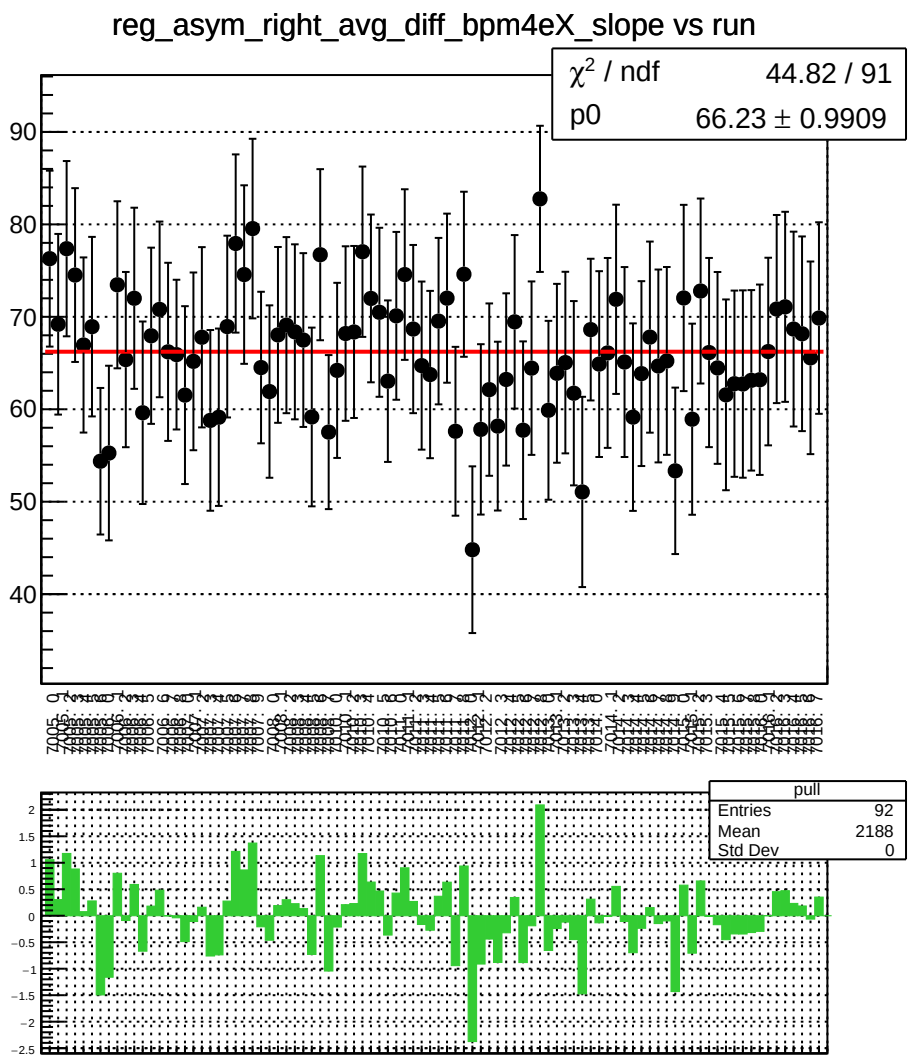

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 105.8 / 91
p0 −20.64 ± 0.03576
−19.5
−20
−20.5
−21
−21.5
−22
pull
Entries 92
Mean 404.7
Std Dev 0
pull1D
Entries 92
Mean −0.021
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

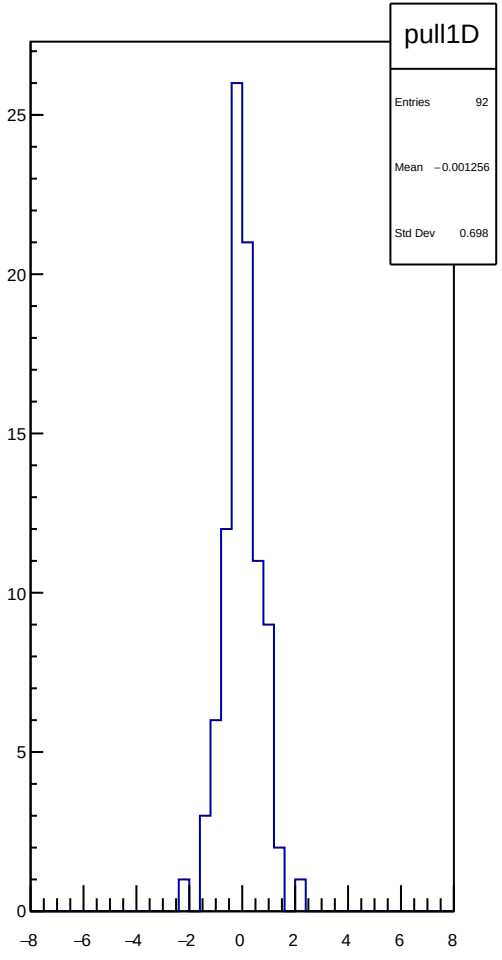

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 46.68 / 91
p0 −38.07 ± 1.07
pull
Entries 92
Mean 1306
Std Dev 0

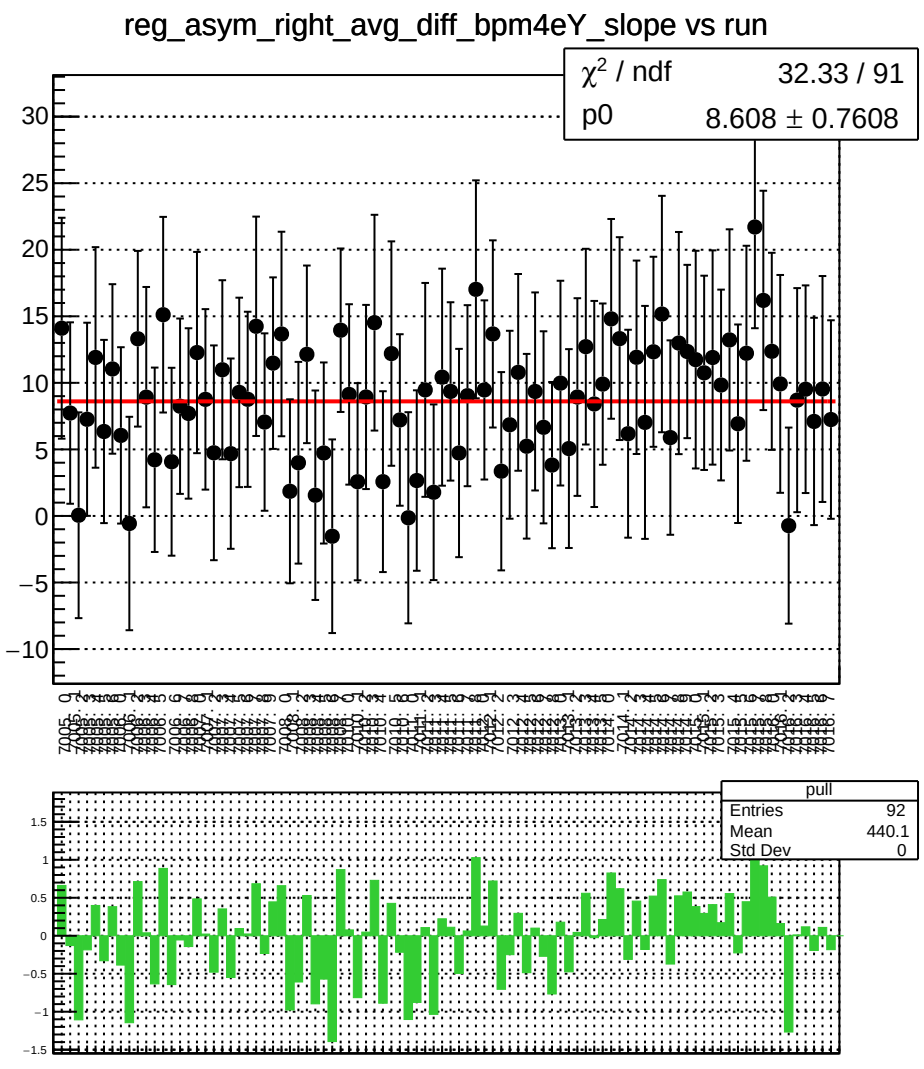

pull1D
Entries 92
Mean 0.002176
Std Dev 0.7123

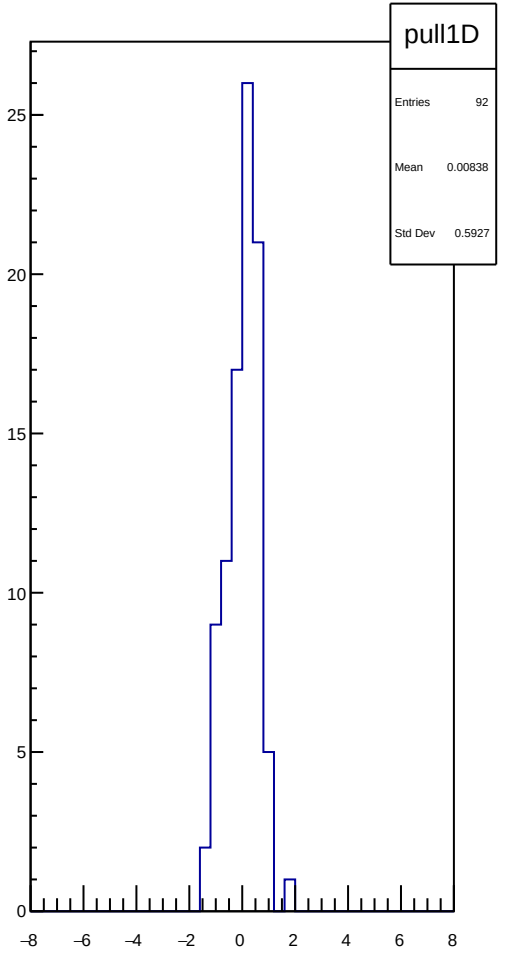

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.3 / 91
p0 −0.1917 ± 0.726
pull
Entries 92
Mean 327.8
Std Dev 0

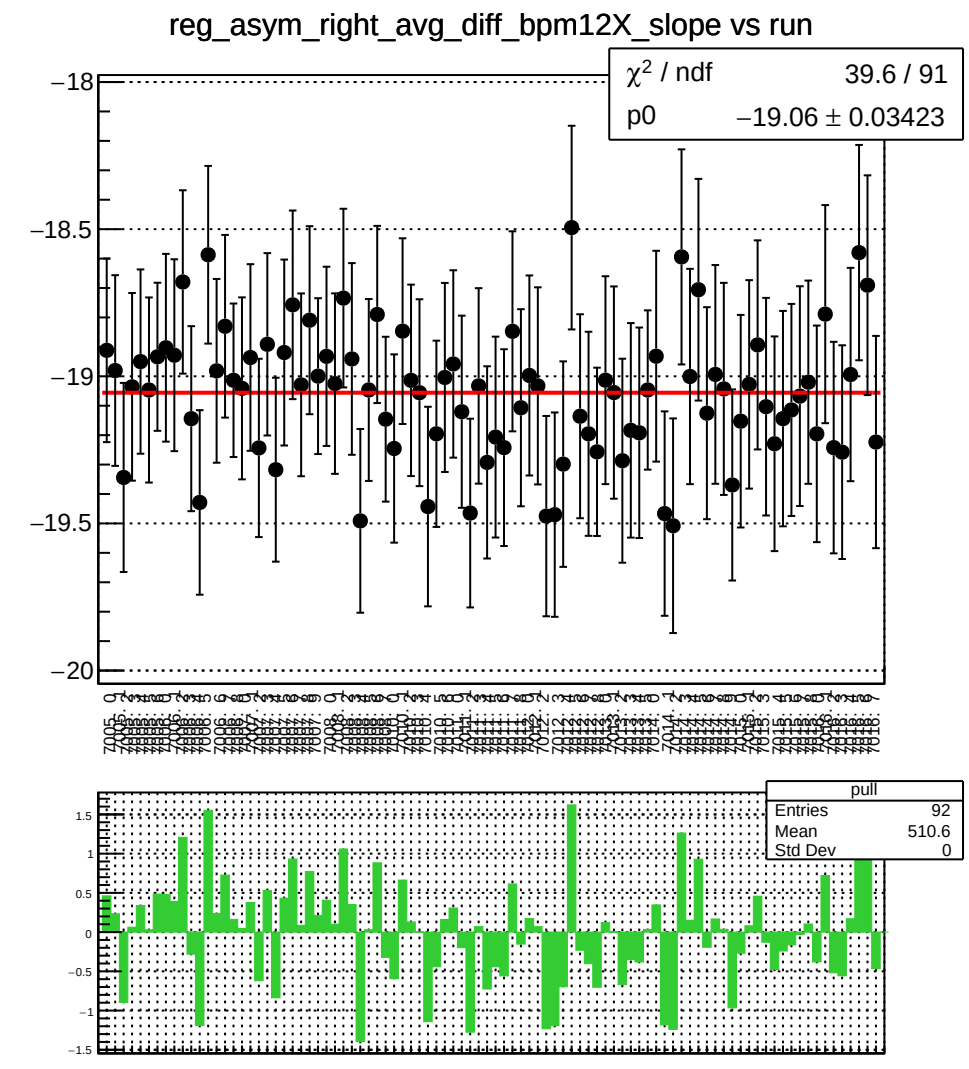

pull1D
Entries 92
Mean −0.01003
Std Dev 0.5832

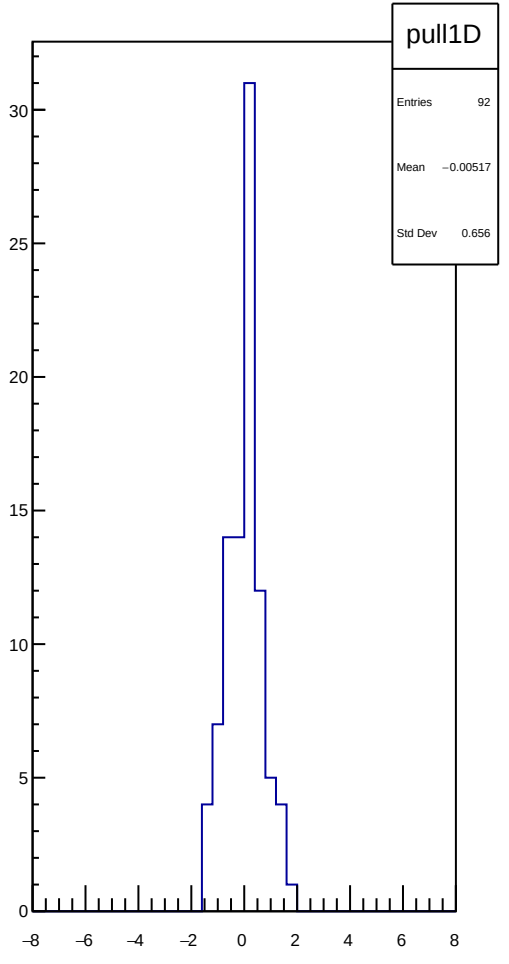

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.82 / 91
p0 66.23 ± 0.9909
pull
Entries 92
Mean 2188
Std Dev 0

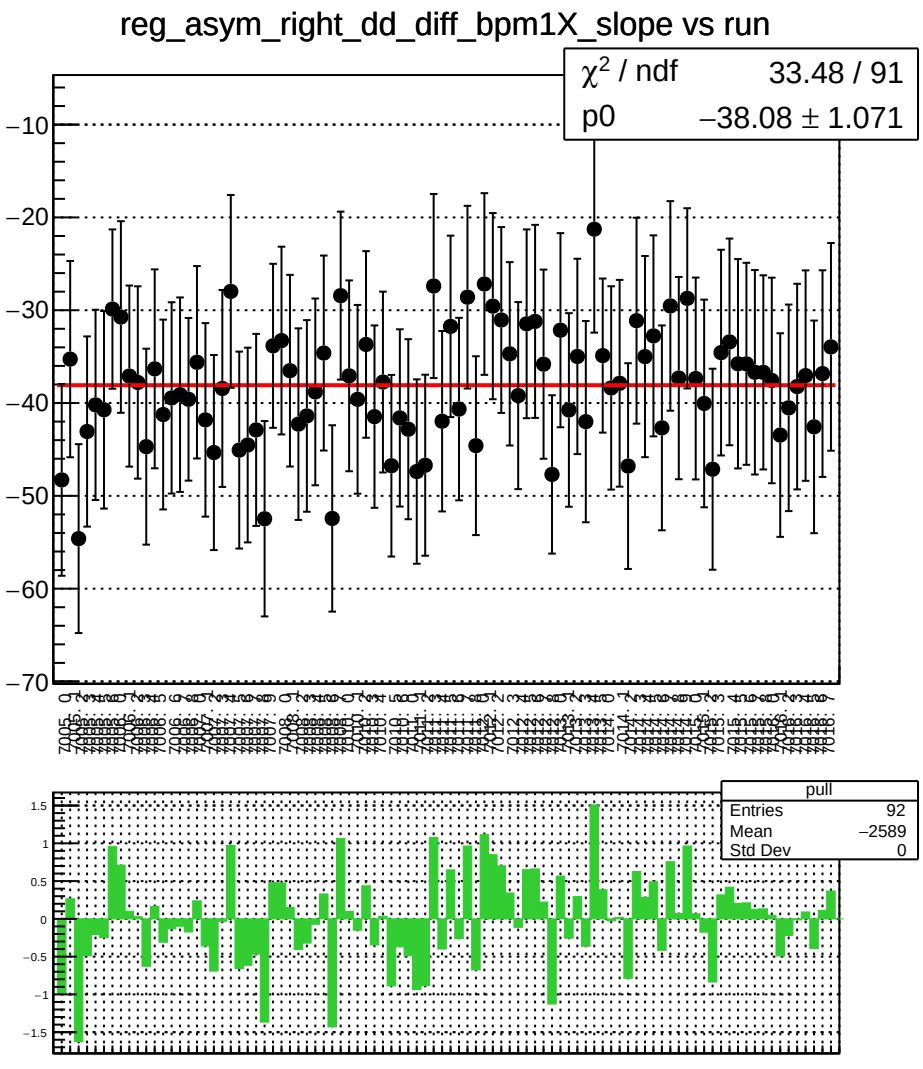

pull1D
Entries 92
Mean −0.001256
Std Dev 0.698

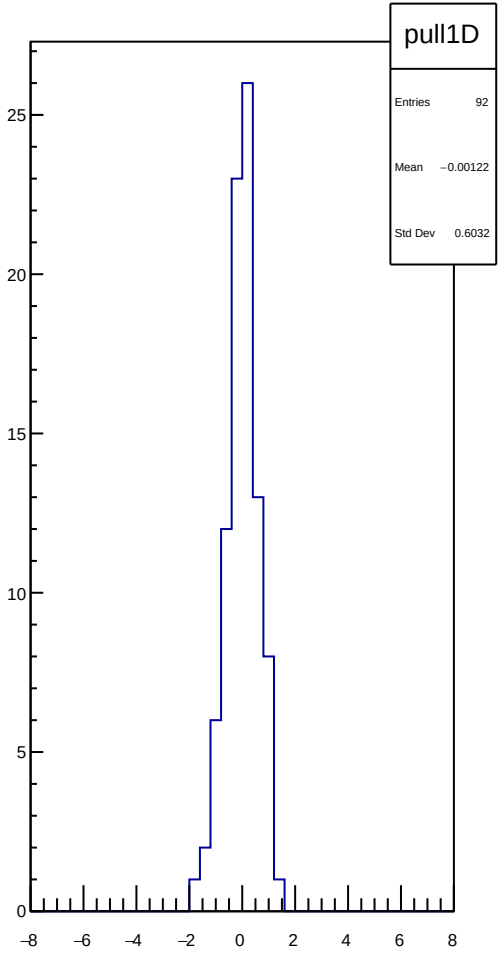

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.33 / 91
p0 8.608 ± 0.7608
pull
Entries 92
Mean 440.1
Std Dev 0

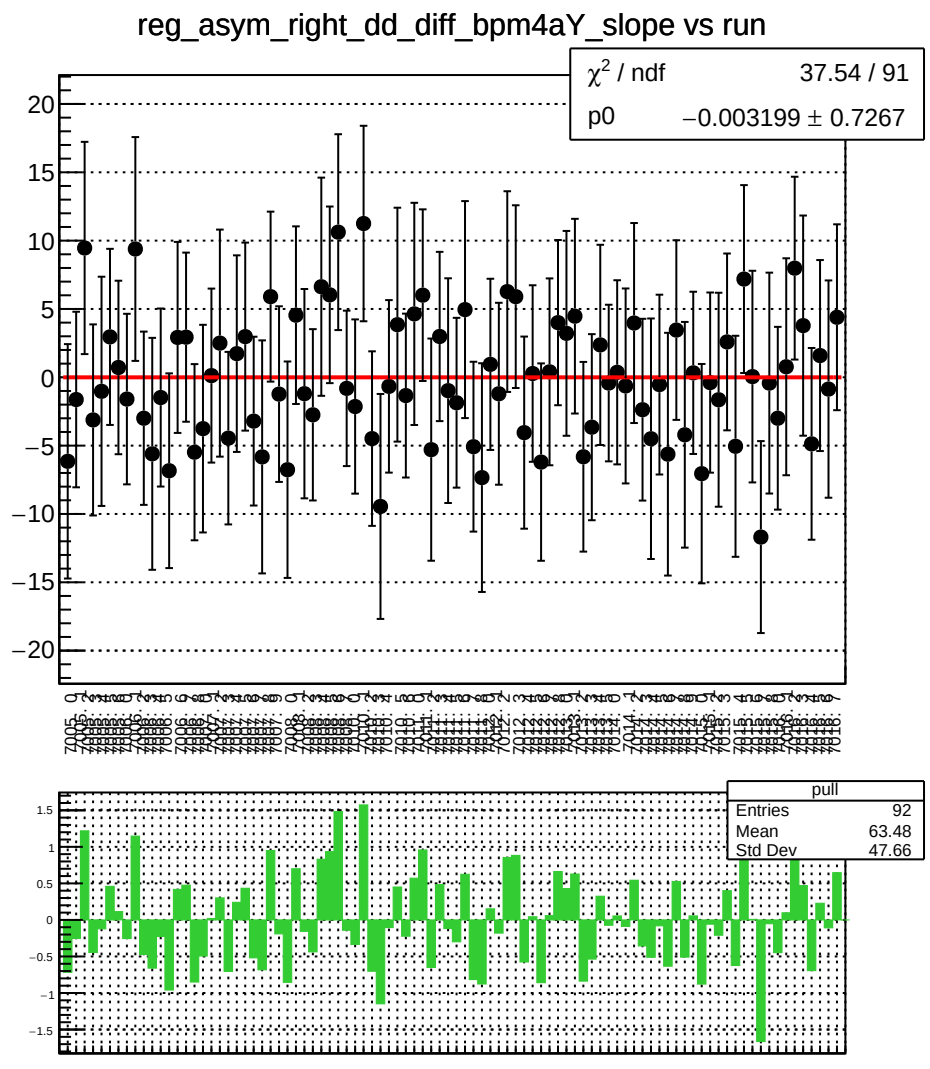

pull1D
Entries 92
Mean 0.00838
Std Dev 0.5927

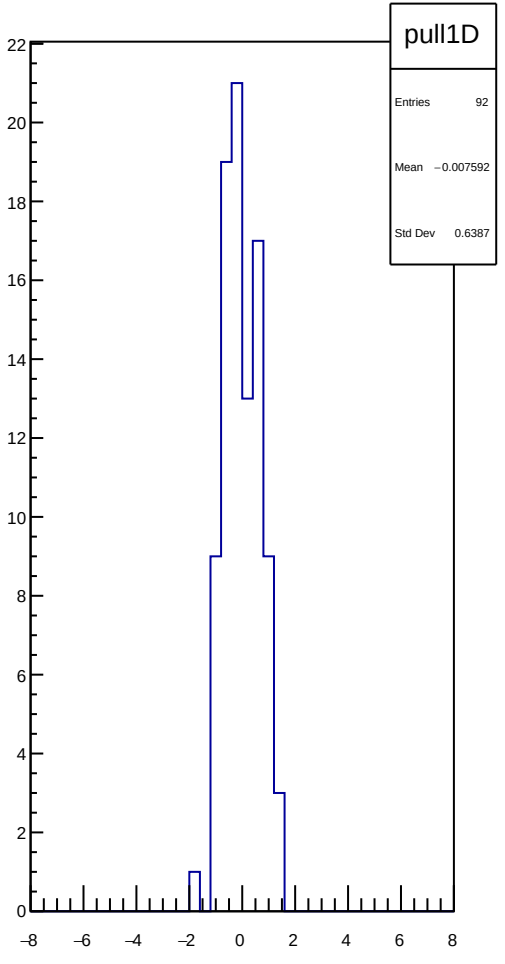

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 39.6 / 91
p0 −19.06 ± 0.03423
−18
−18.5
−19
−19.5
−20
pull
Entries 92
Mean 510.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

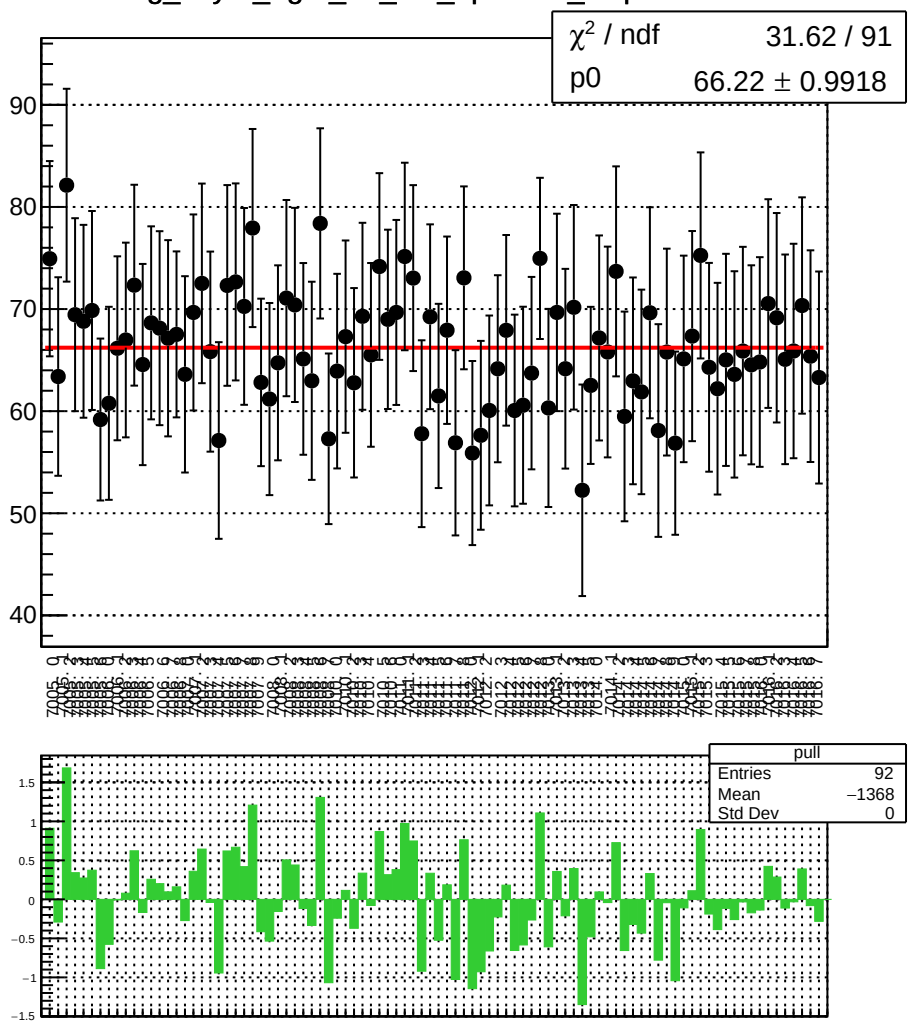

pull1D
Entries 92
Mean −0.00517
Std Dev 0.656
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

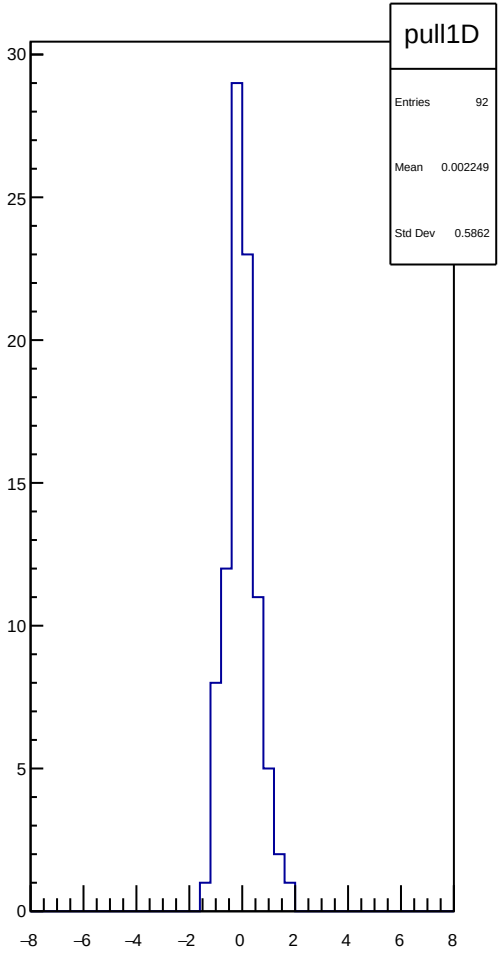

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 33.48 / 91
p0 −38.08 ± 1.071
pull
Entries 92
Mean −2589
Std Dev 0

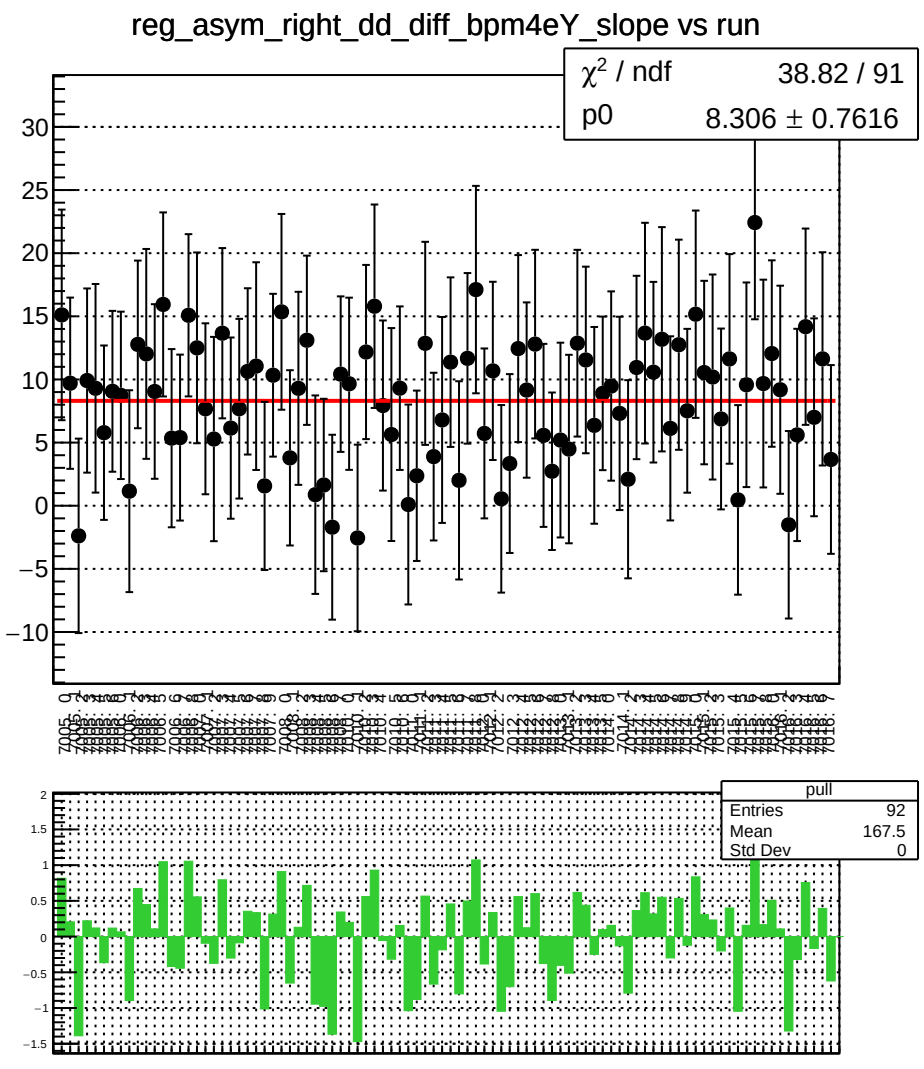

pull1D
Entries 92
Mean −0.00122
Std Dev 0.6032

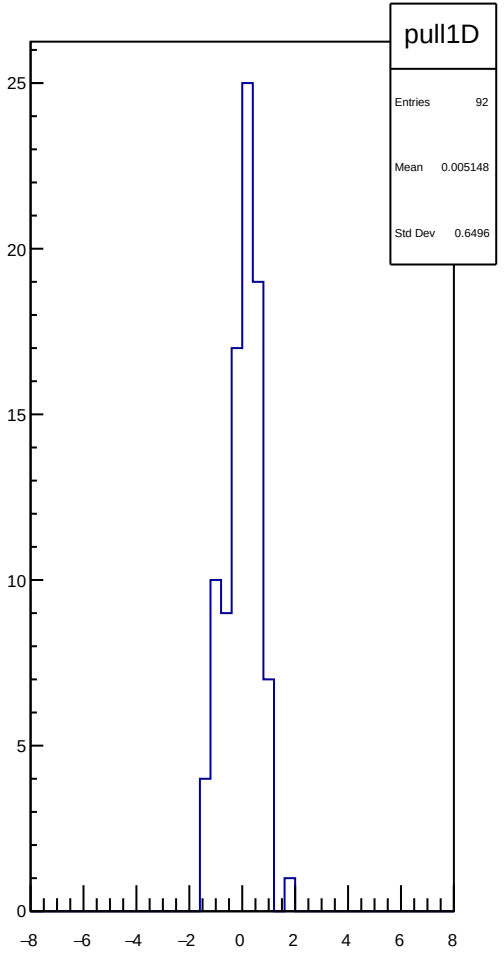

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.54 / 91
p0 −0.003199 ± 0.7267
pull
Entries 92
Mean 63.48
Std Dev 47.66

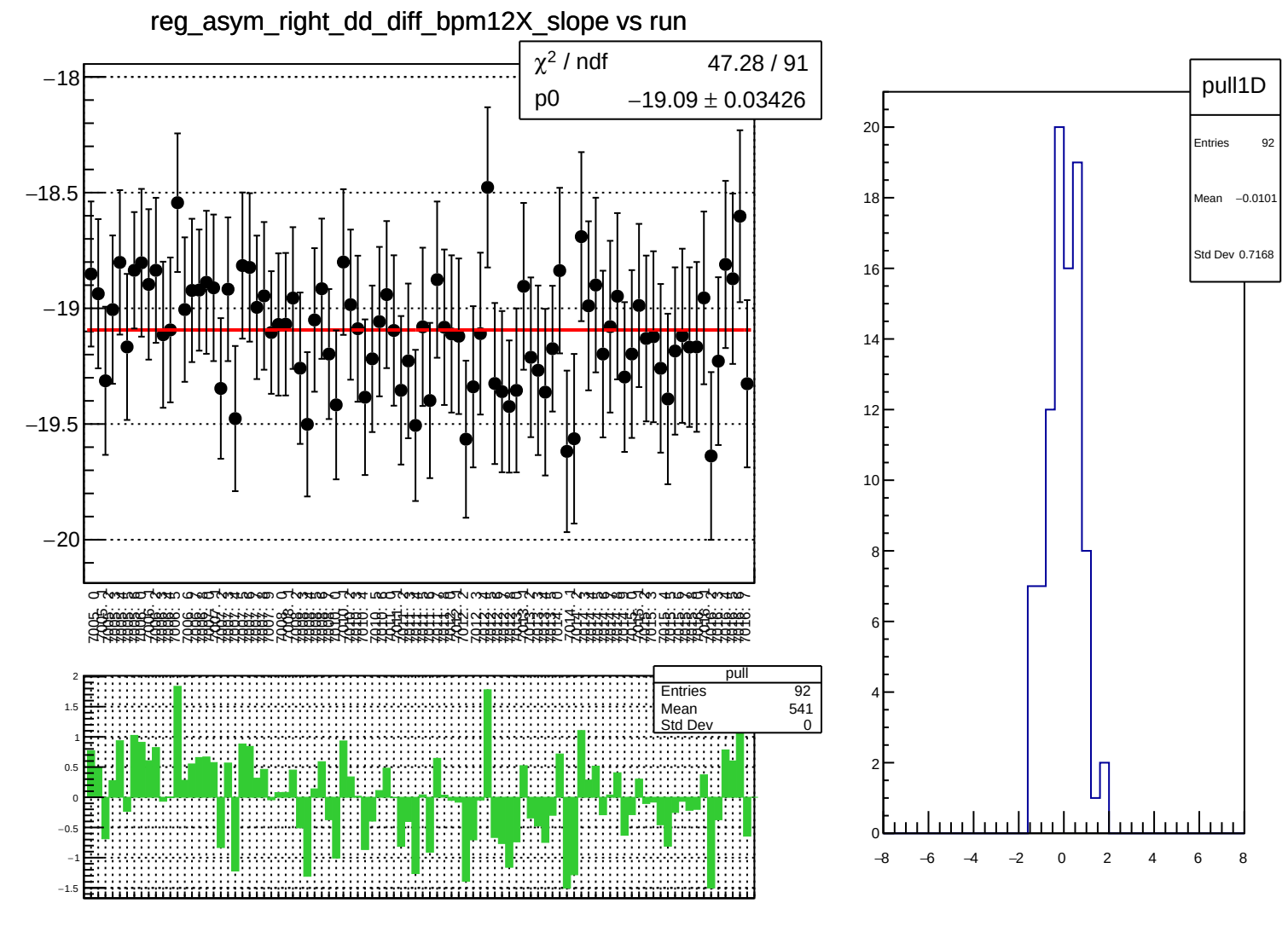

pull1D
Entries 92
Mean −0.007592
Std Dev 0.6387

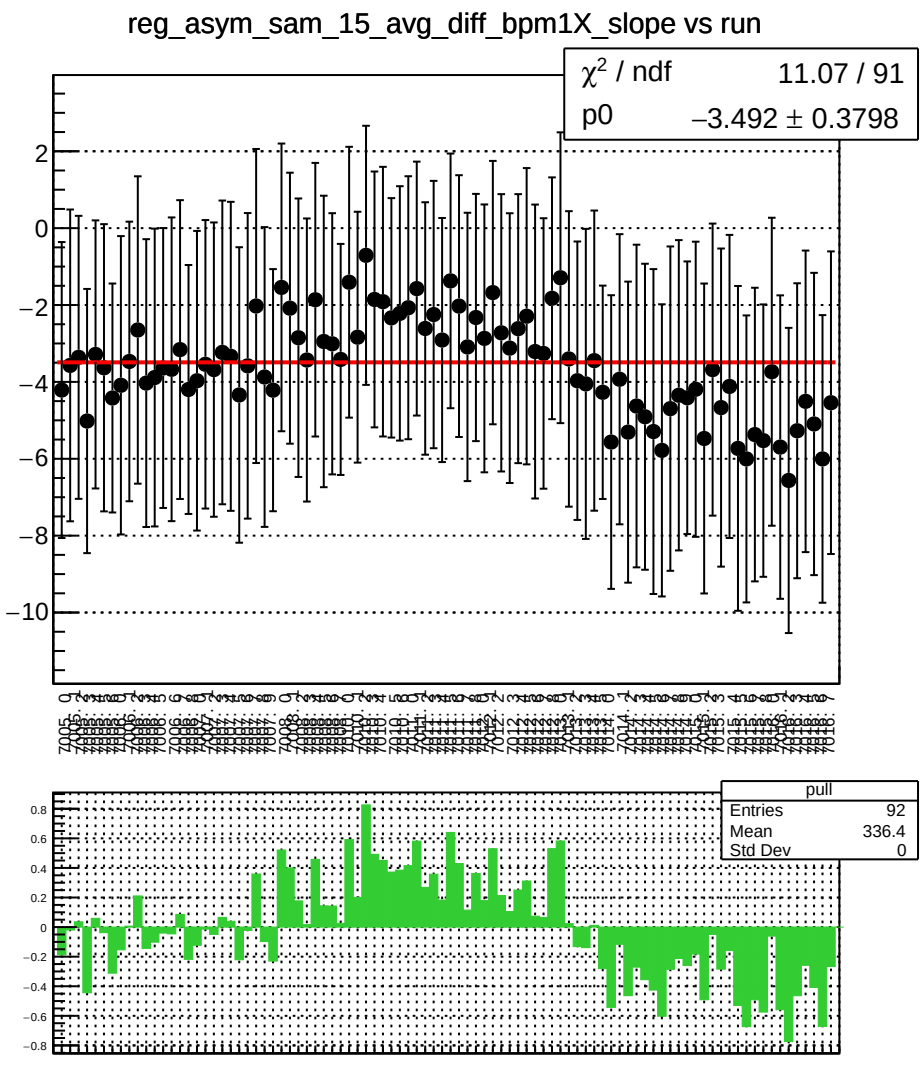

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.62 / 91
p0 66.22 ± 0.9918
pull
Entries 92
Mean −1368
Std Dev 0

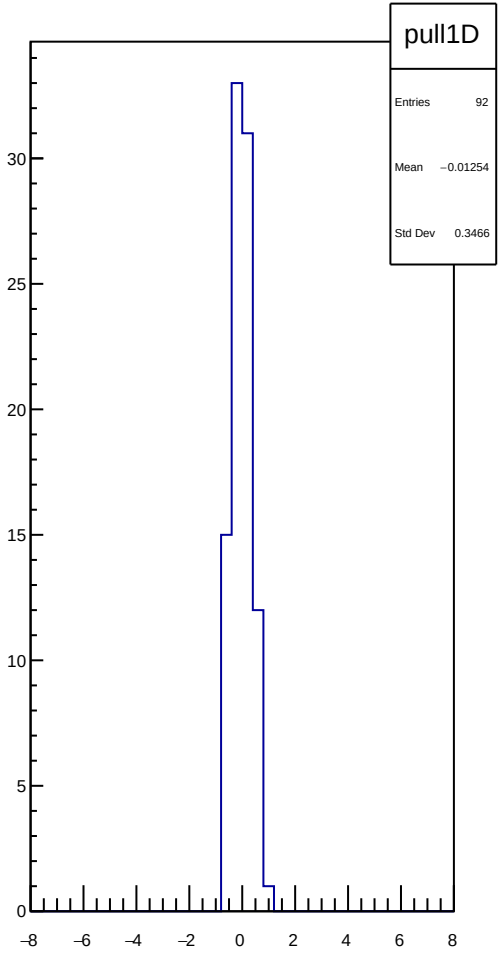

pull1D
Entries 92
Mean 0.002249
Std Dev 0.5862

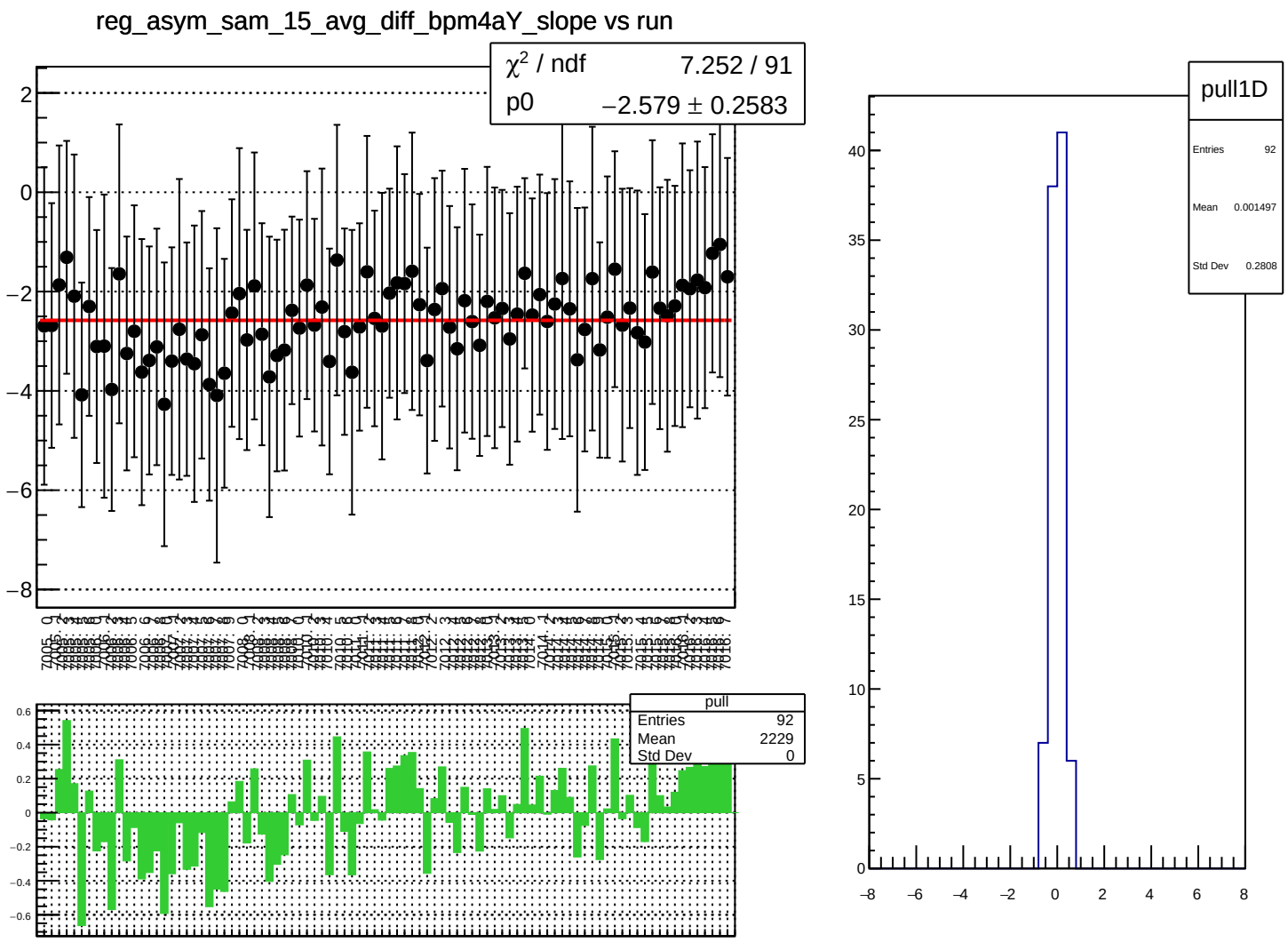

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.82 / 91
p0 8.306 ± 0.7616
pull
Entries 92
Mean 167.5
Std Dev 0

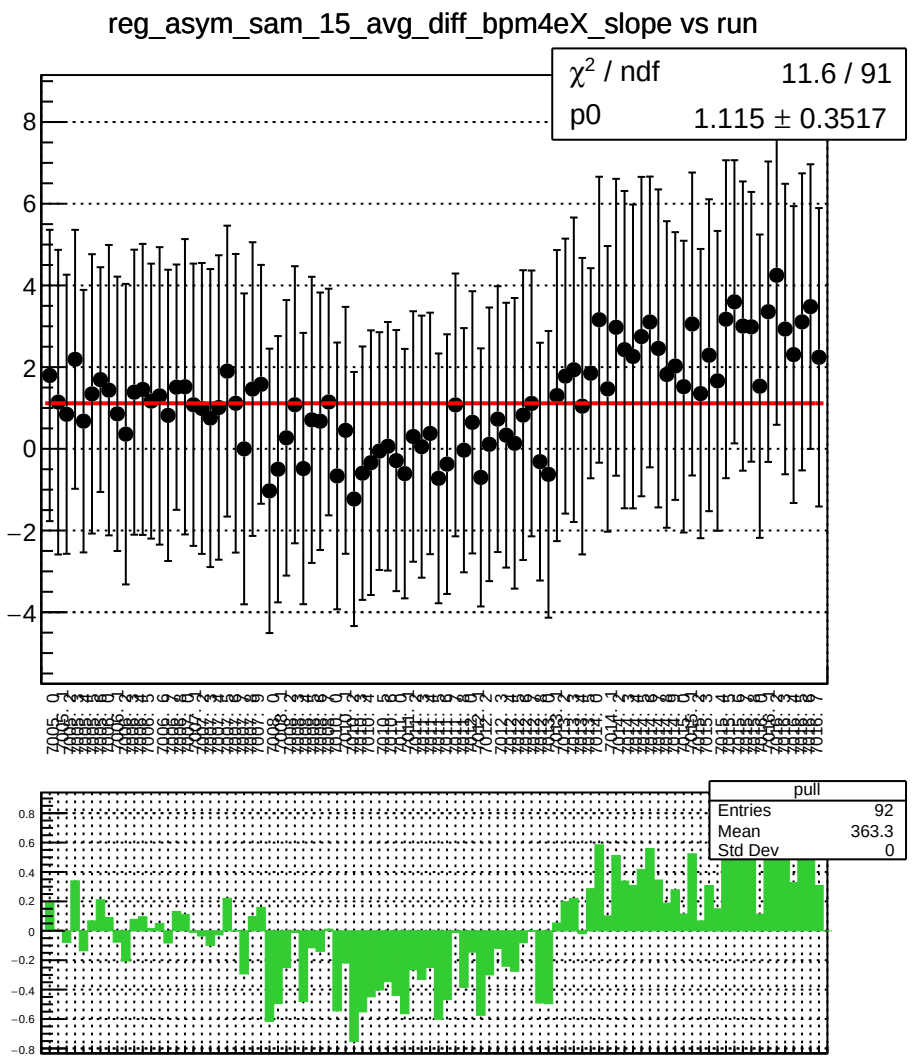

pull1D
Entries 92
Mean 0.005148
Std Dev 0.6496

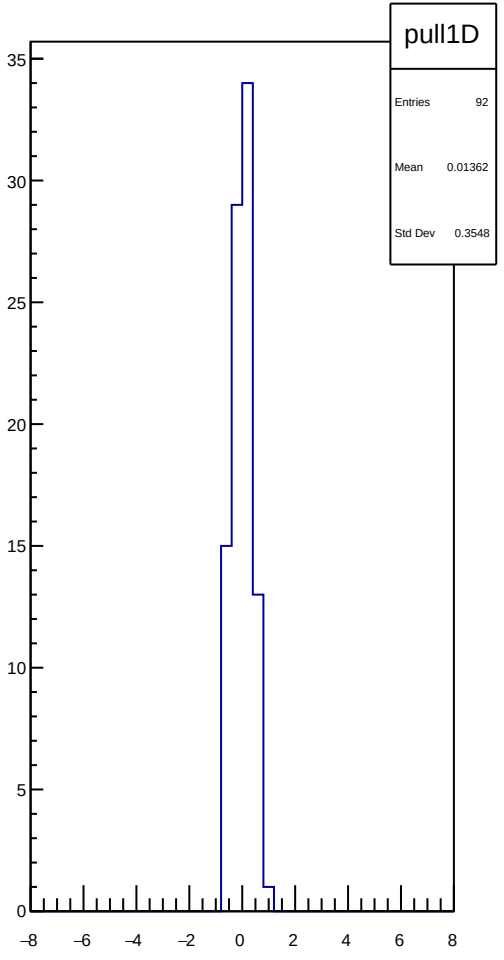

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 47.28 / 91
p0 −19.09 ± 0.03426
−18
−18.5
−19
−19.5
−20
pull
Entries 92
Mean 541
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.0101
Std Dev 0.7168
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

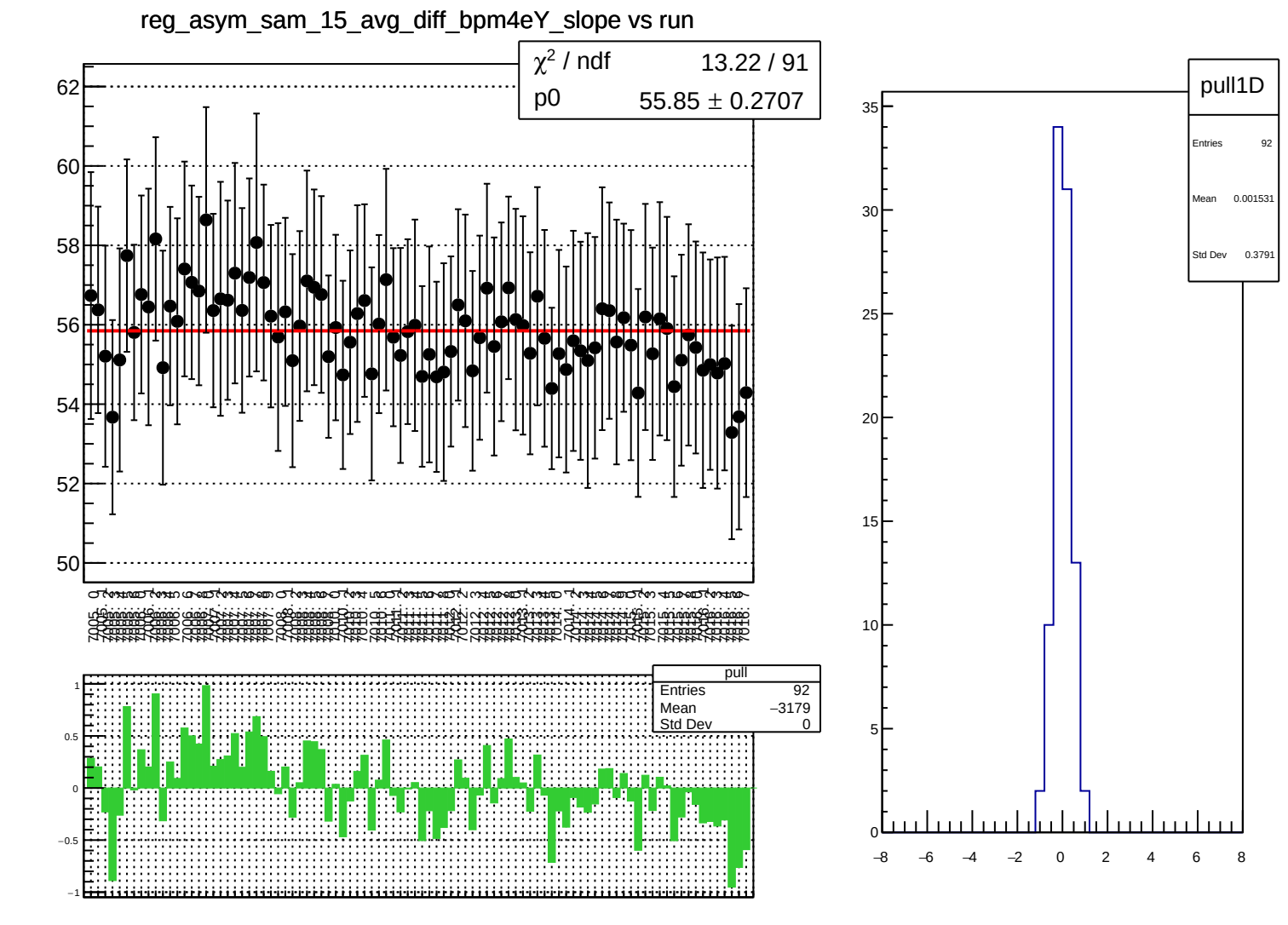

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 11.07 / 91
p0 −3.492 ± 0.3798
pull
Entries 92
Mean 336.4
Std Dev 0

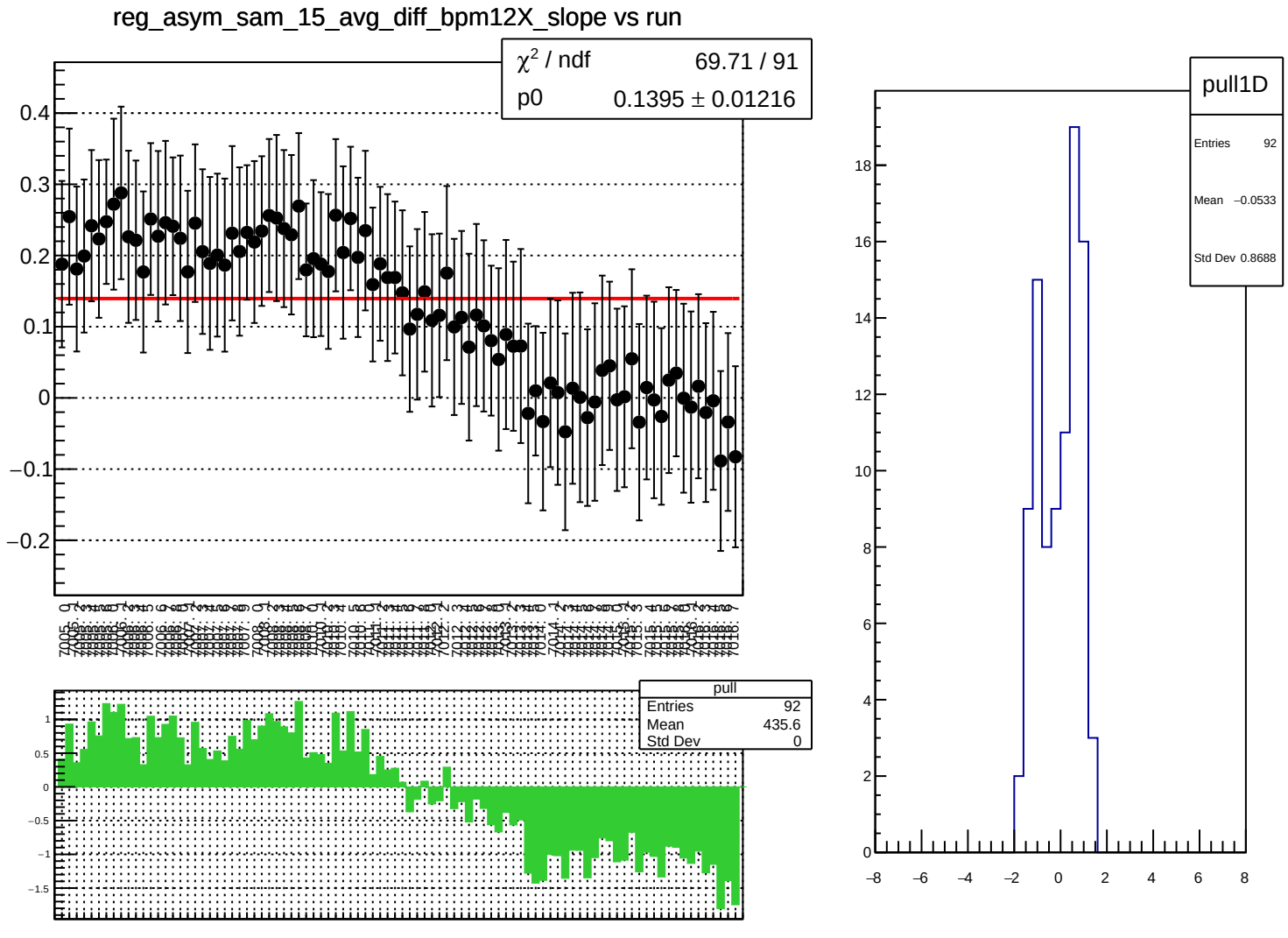

pull1D
Entries 92
Mean −0.01254
Std Dev 0.3466

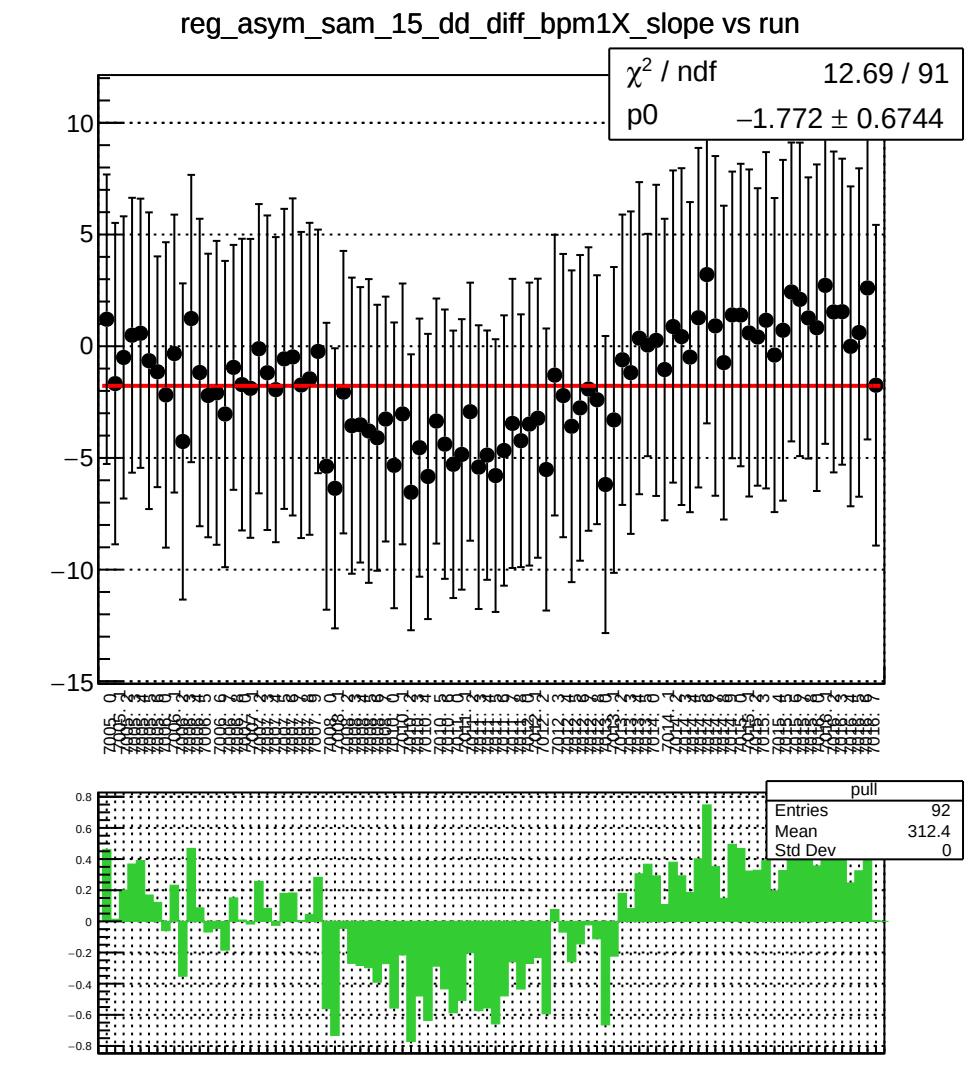

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.252 / 91
p0 −2.579 ± 0.2583
pull
Entries 92
Mean 2229
Std Dev 0
pull1D
Entries 92
Mean 0.001497
Std Dev 0.2808

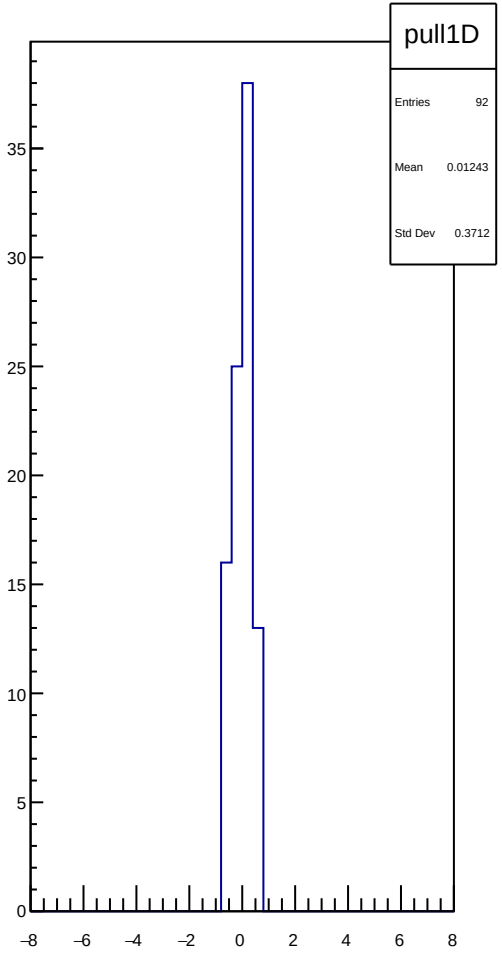

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.6 / 91
p0 1.115 ± 0.3517
pull
Entries 92
Mean 363.3
Std Dev 0

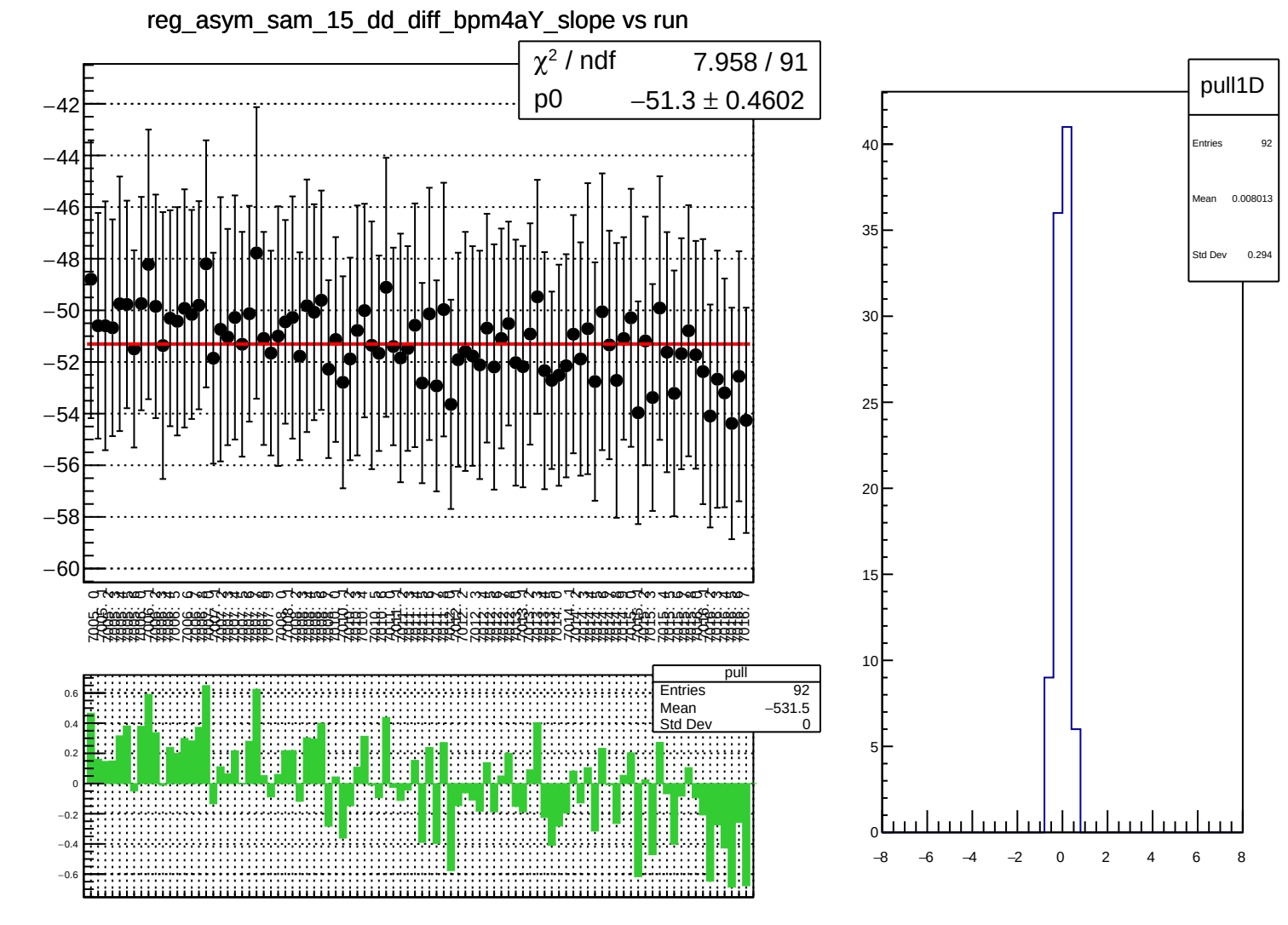

pull1D
Entries 92
Mean 0.01362
Std Dev 0.3548

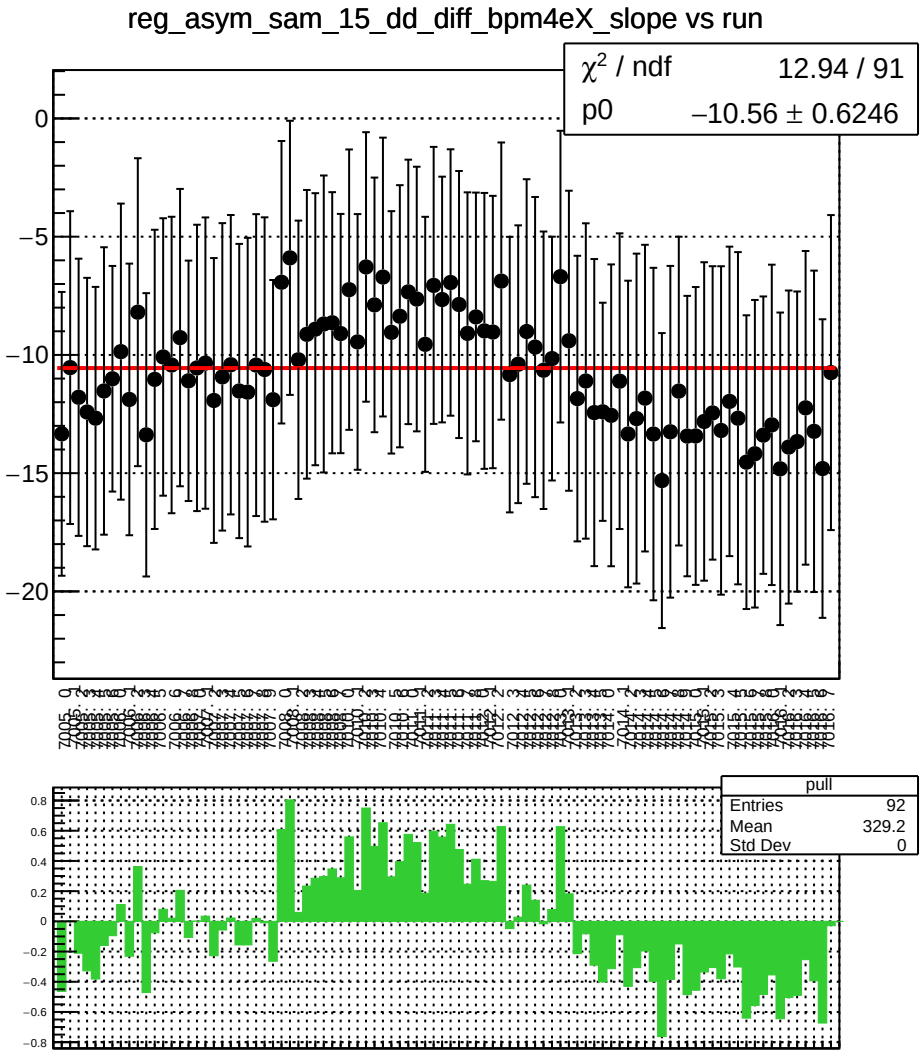

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.22 / 91
p0 55.85 ± 0.2707
62
60
58
56
54
52
50
pull
Entries 92
Mean −3179
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.001531
Std Dev 0.3791
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

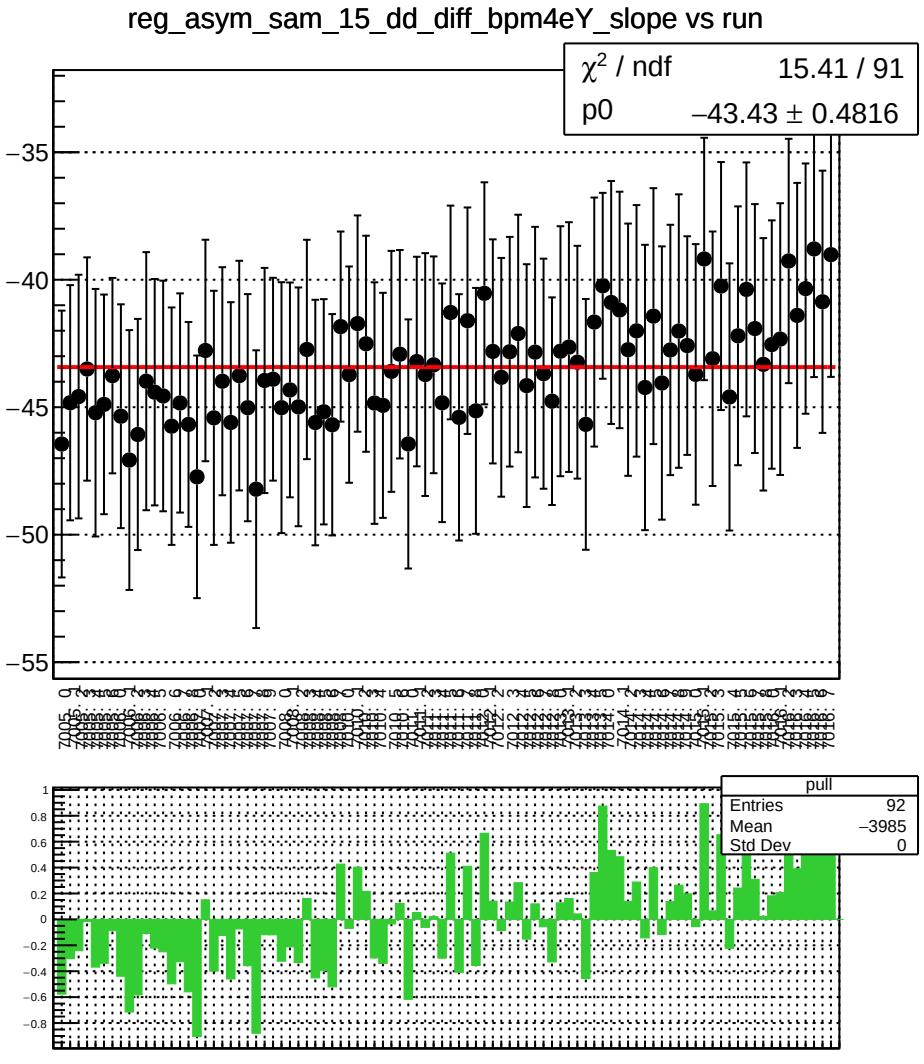

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 69.71 / 91
p0 0.1395 ± 0.01216
pull
Entries 92
Mean 435.6
Std Dev 0
pull1D
Entries 92
Mean −0.0533
Std Dev 0.8688

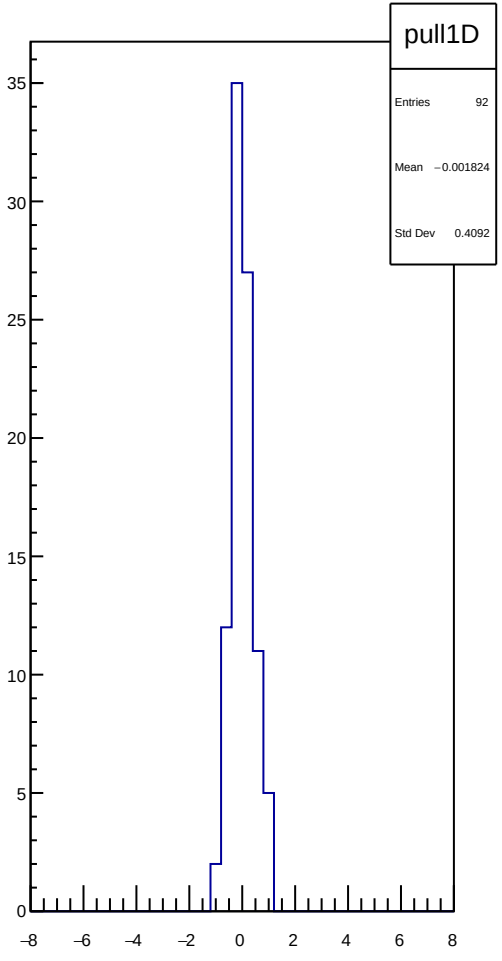

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 12.69 / 91
p0 −1.772 ± 0.6744
pull
Entries 92
Mean 312.4
Std Dev 0

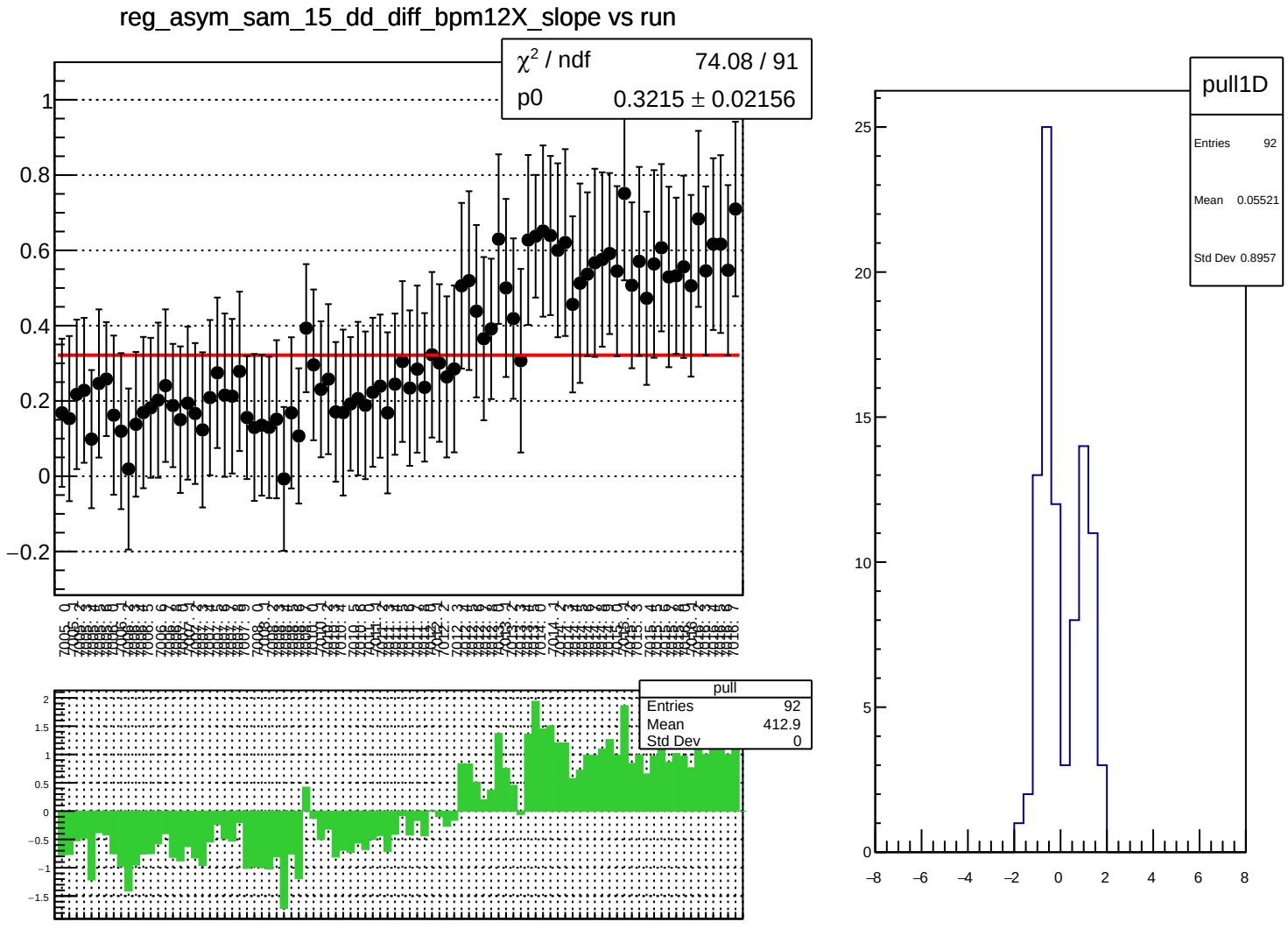

pull1D
Entries 92
Mean 0.01243
Std Dev 0.3712

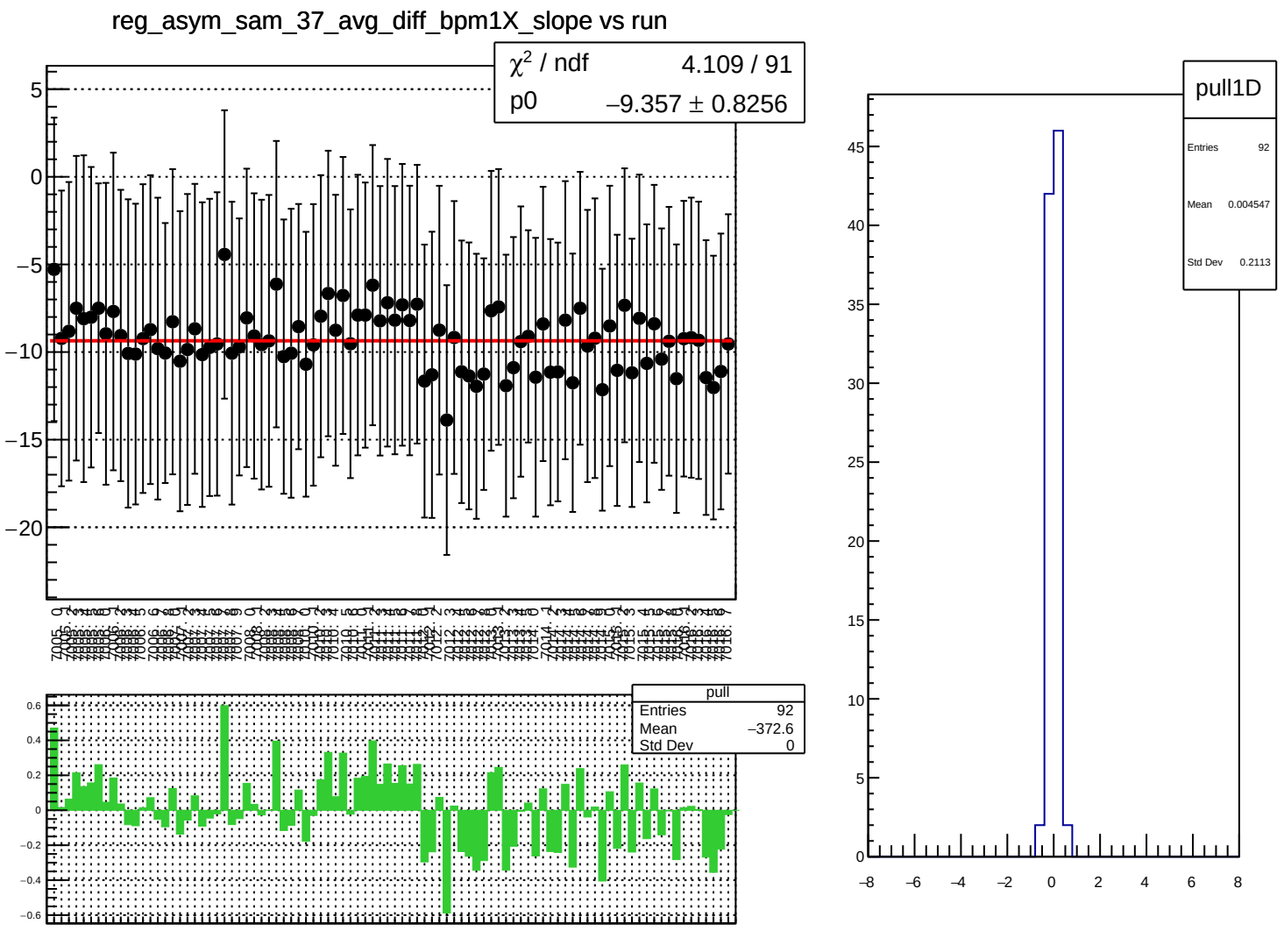

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.958 / 91
p0 −51.3 ± 0.4602
pull
Entries 92
Mean −531.5
Std Dev 0
pull1D
Entries 92
Mean 0.008013
Std Dev 0.294

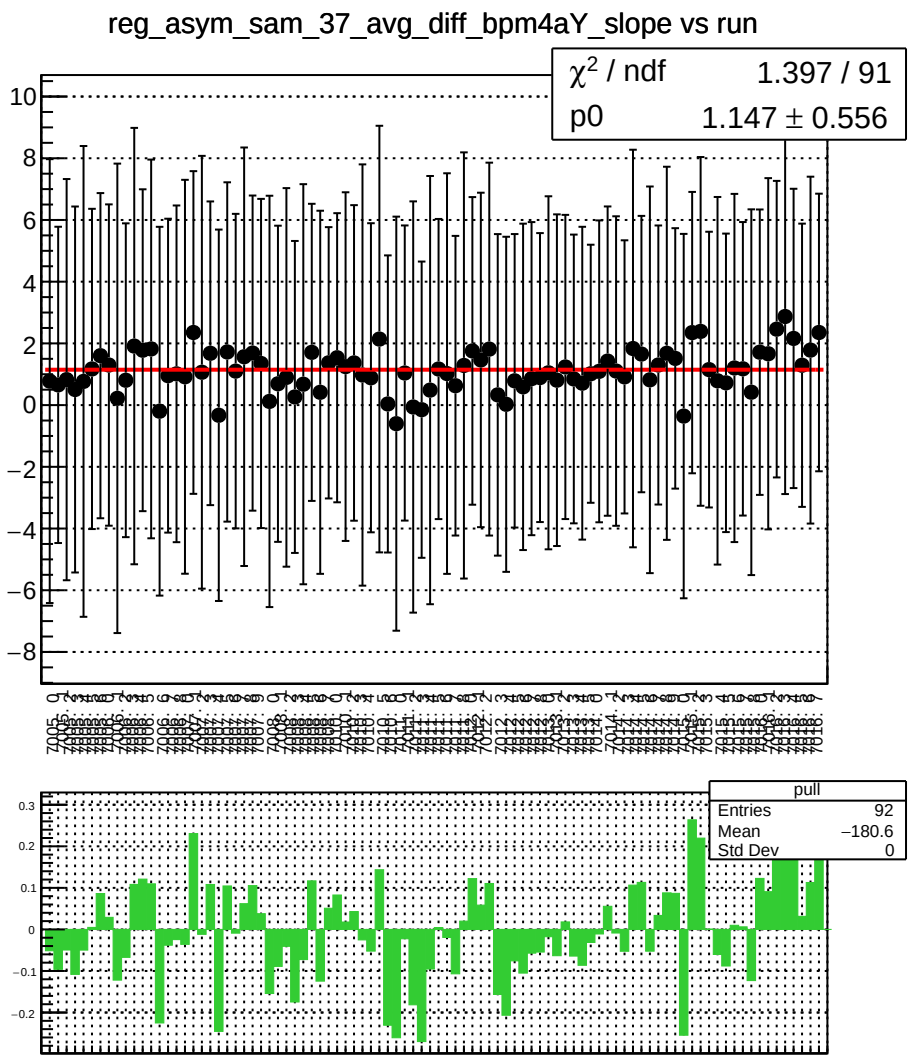

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.94 / 91
p0 −10.56 ± 0.6246
pull
Entries 92
Mean 329.2
Std Dev 0
pull1D
Entries 92
Mean −0.01274
Std Dev 0.3748

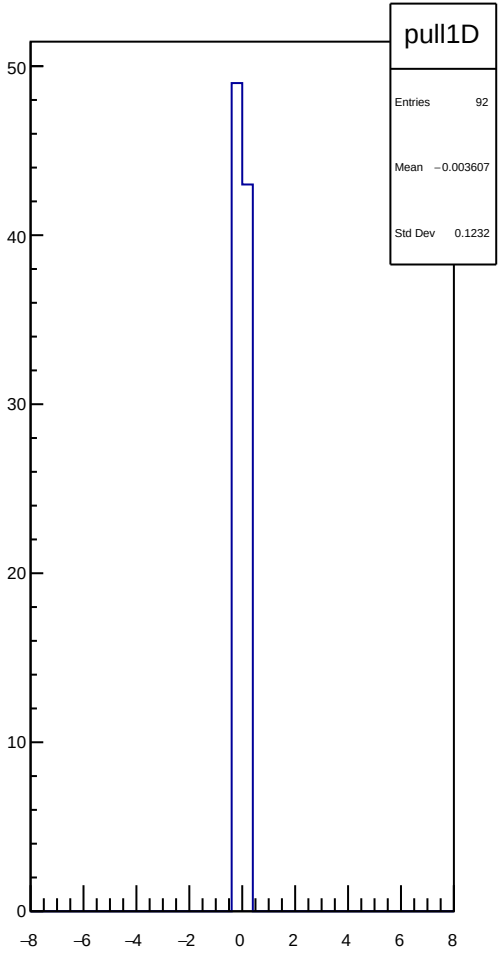

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.41 / 91
p0 −43.43 ± 0.4816
pull
Entries 92
Mean −3985
Std Dev 0

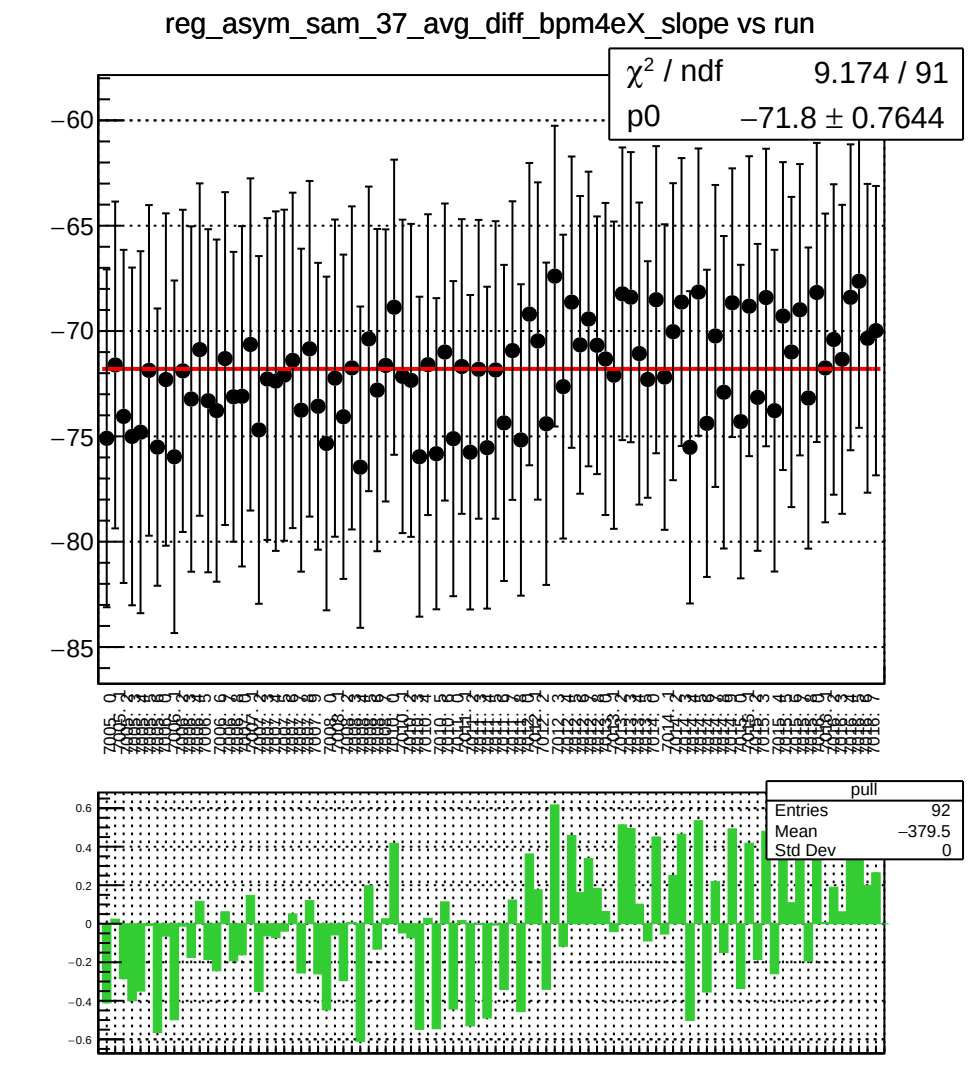

pull1D
Entries 92
Mean −0.001824
Std Dev 0.4092

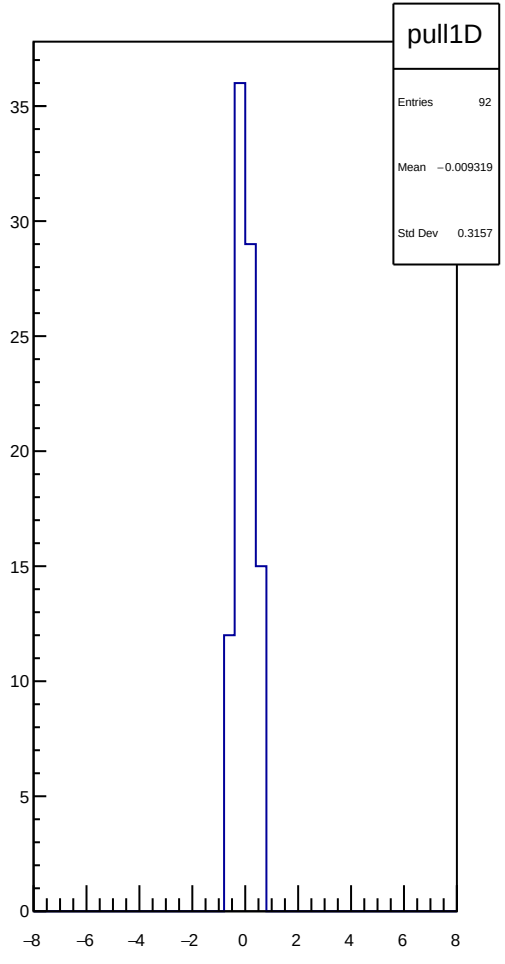

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 74.08 / 91
p0 0.3215 ± 0.02156
pull
Entries 92
Mean 412.9
Std Dev 0
pull1D
Entries 92
Mean 0.05521
Std Dev 0.8957

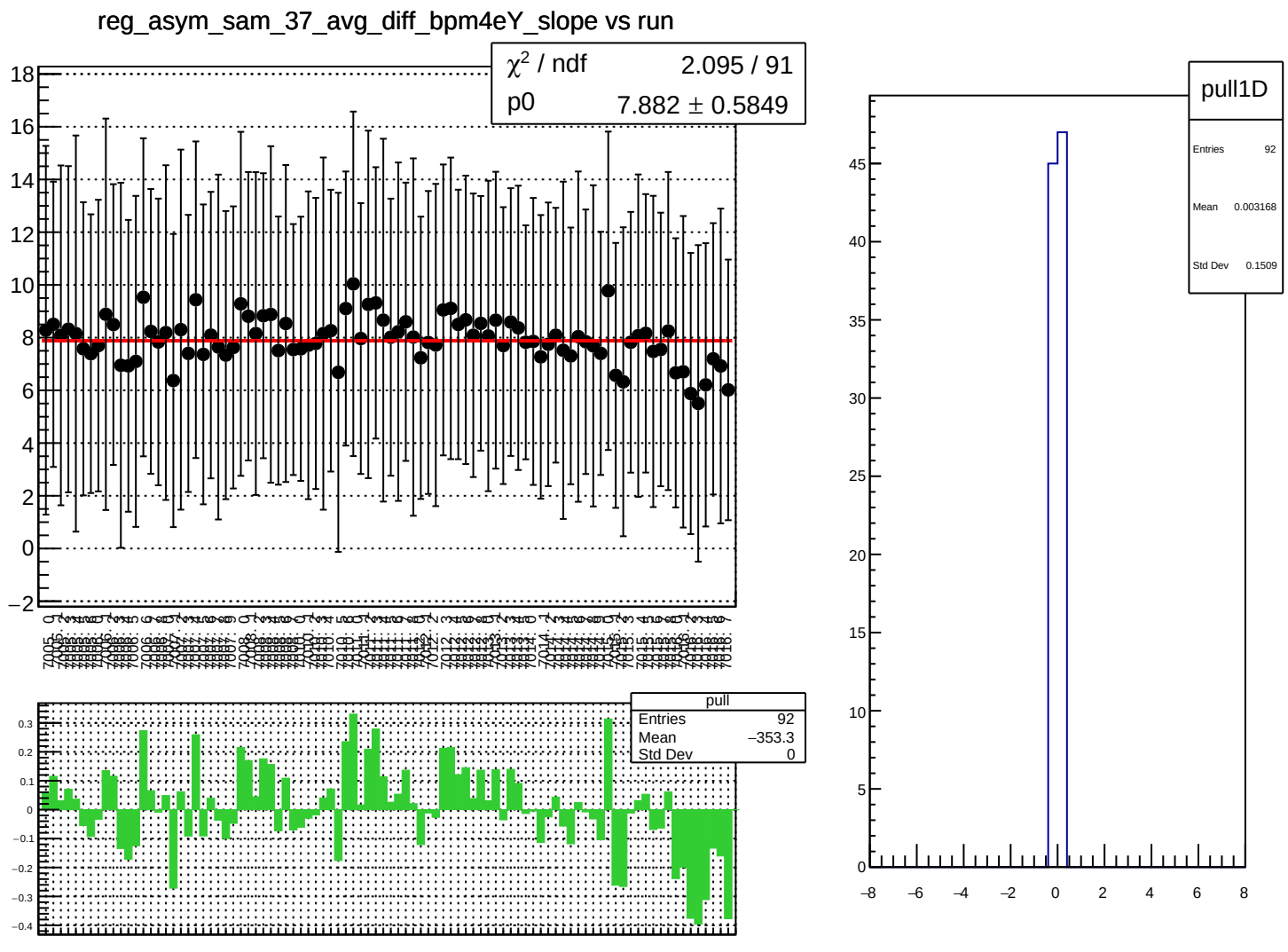

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 4.109 / 91
p0 −9.357 ± 0.8256
pull
Entries 92
Mean −372.6
Std Dev 0
pull1D
Entries 92
Mean 0.004547
Std Dev 0.2113

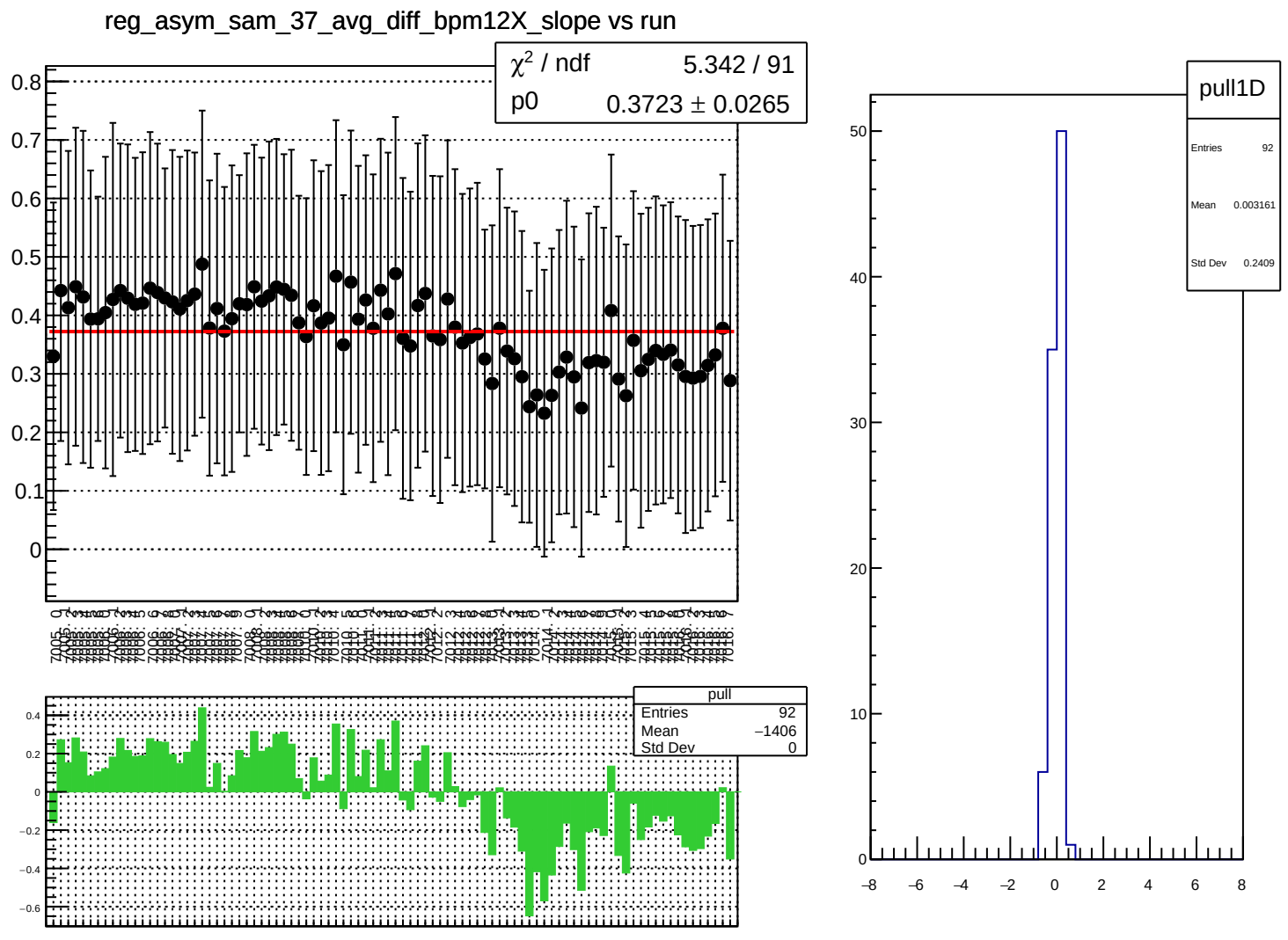

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.397 / 91
p0 1.147 ± 0.556
pull
Entries 92
Mean −180.6
Std Dev 0

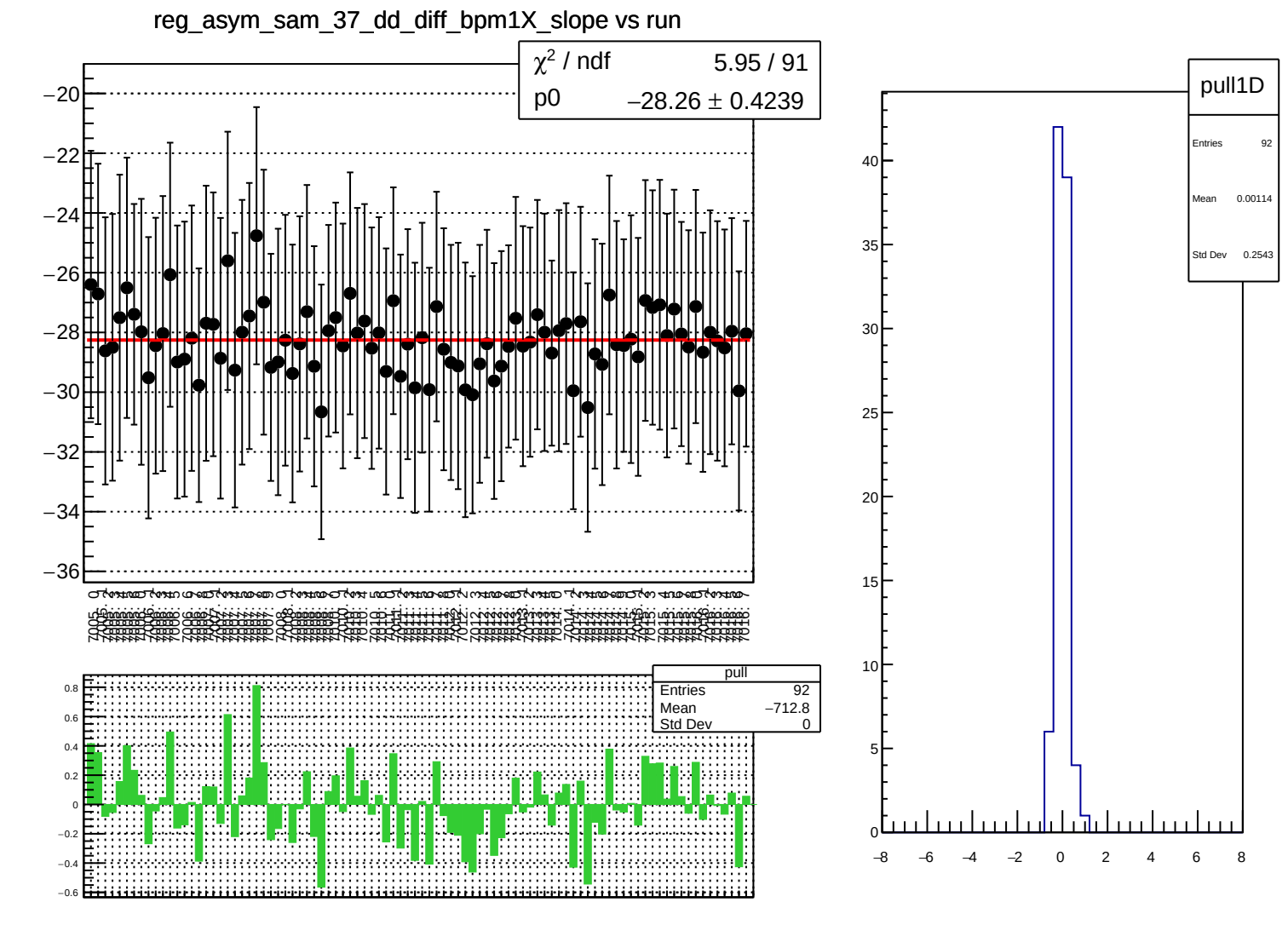

pull1D
Entries 92
Mean −0.003607
Std Dev 0.1232

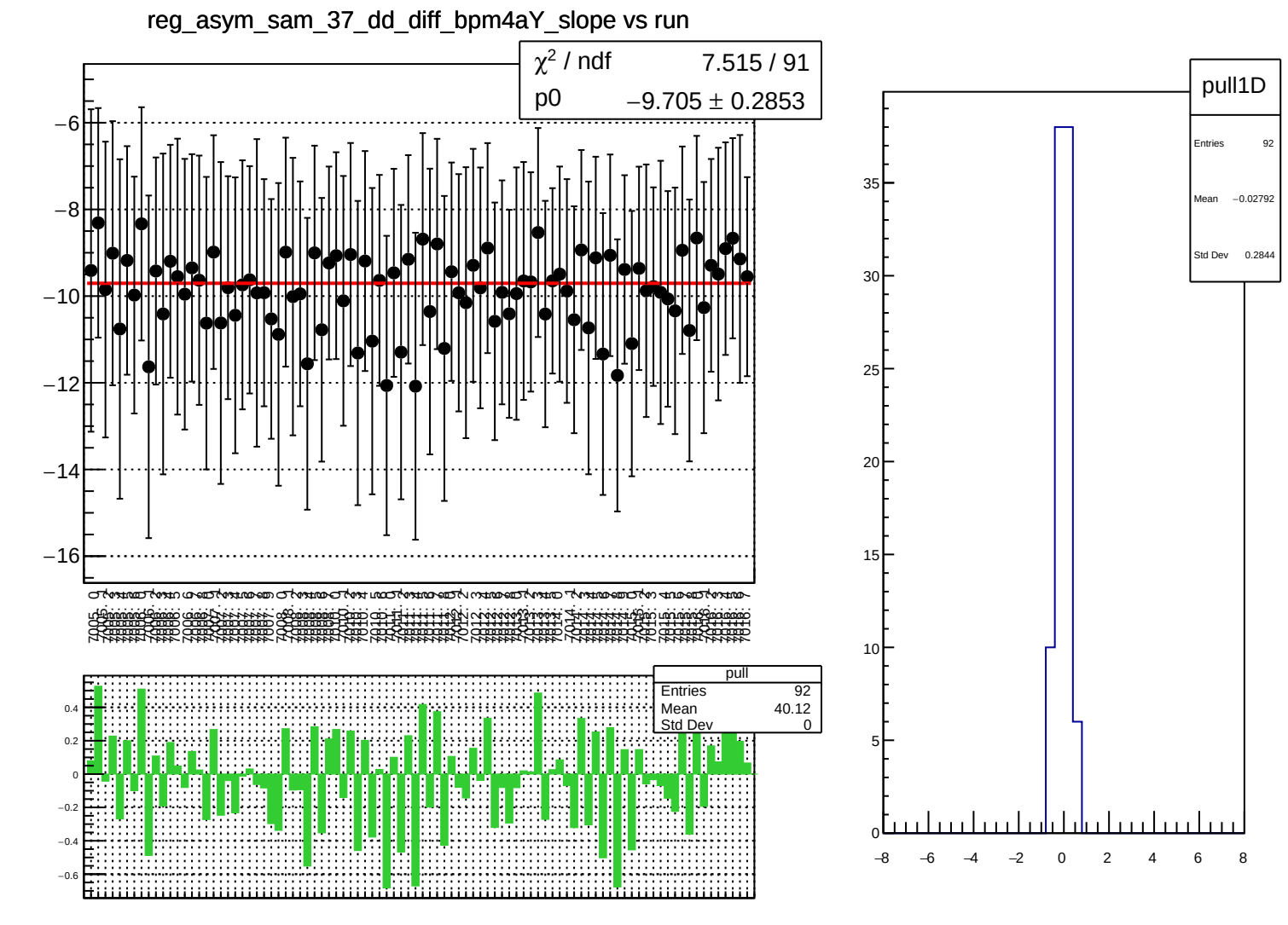

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.174 / 91
p0 −71.8 ± 0.7644
pull
Entries 92
Mean −379.5
Std Dev 0

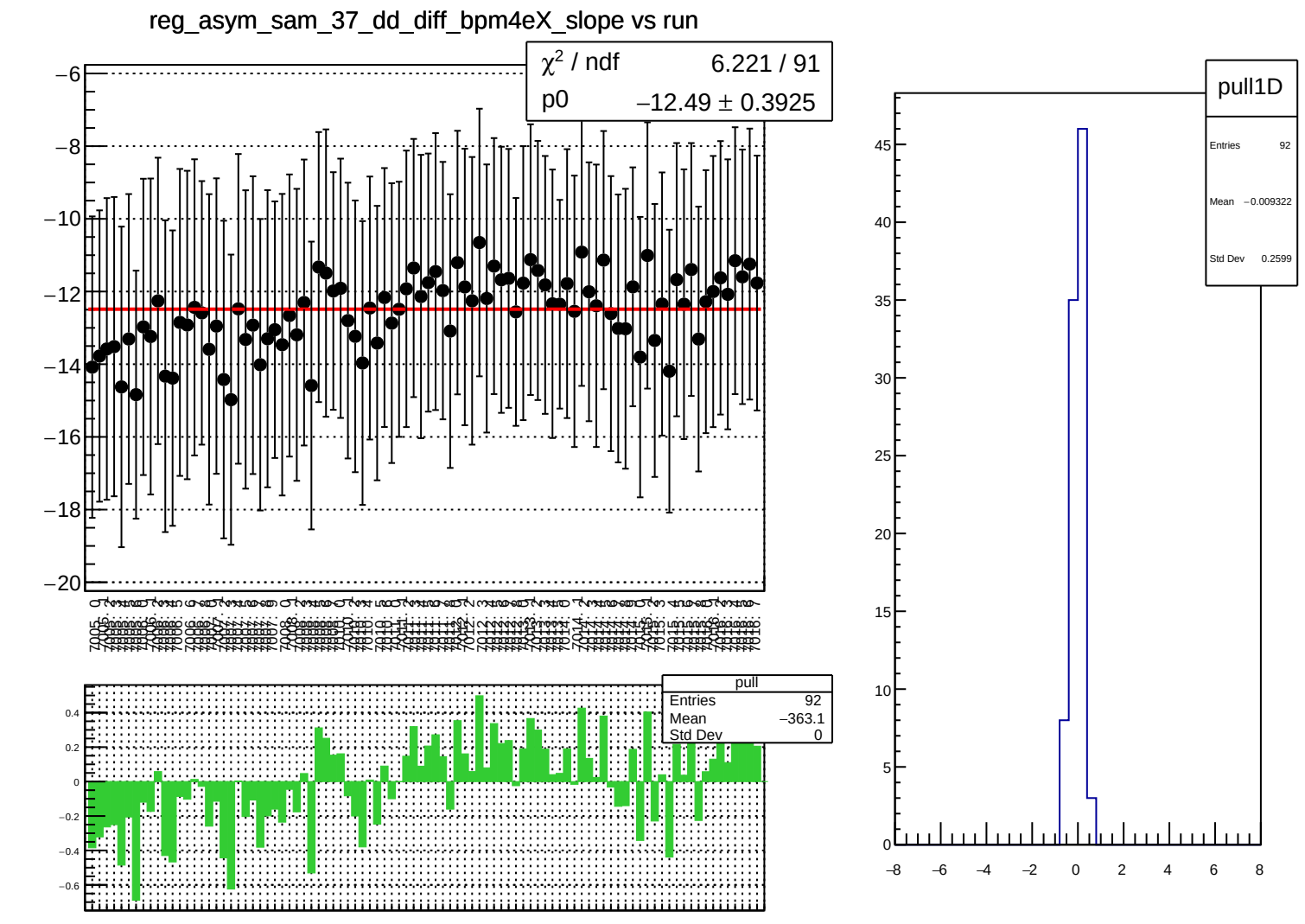

pull1D
Entries 92
Mean −0.009319
Std Dev 0.3157

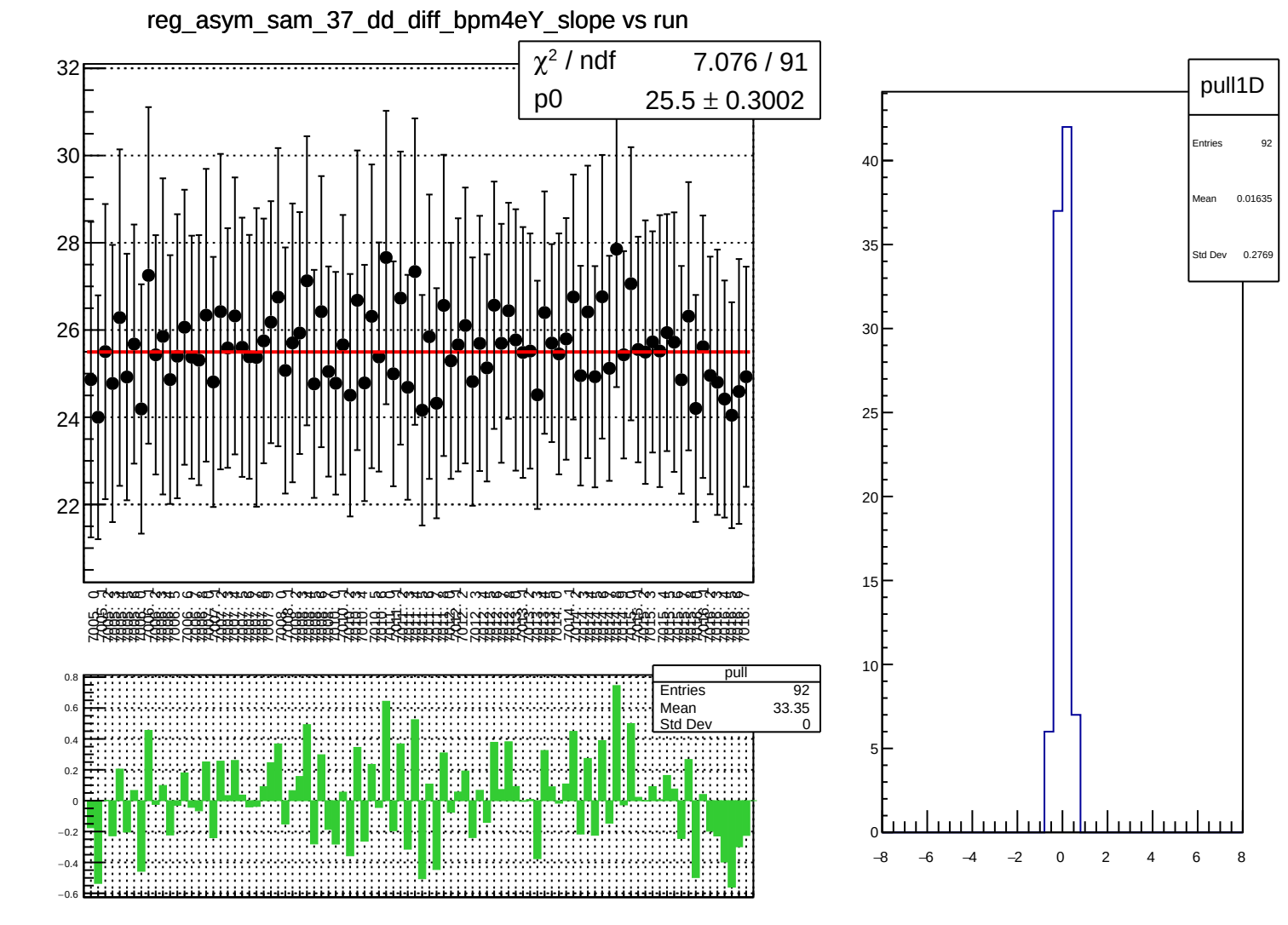

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.095 / 91
p0 7.882 ± 0.5849
pull
Entries 92
Mean −353.3
Std Dev 0
pull1D
Entries 92
Mean 0.003168
Std Dev 0.1509

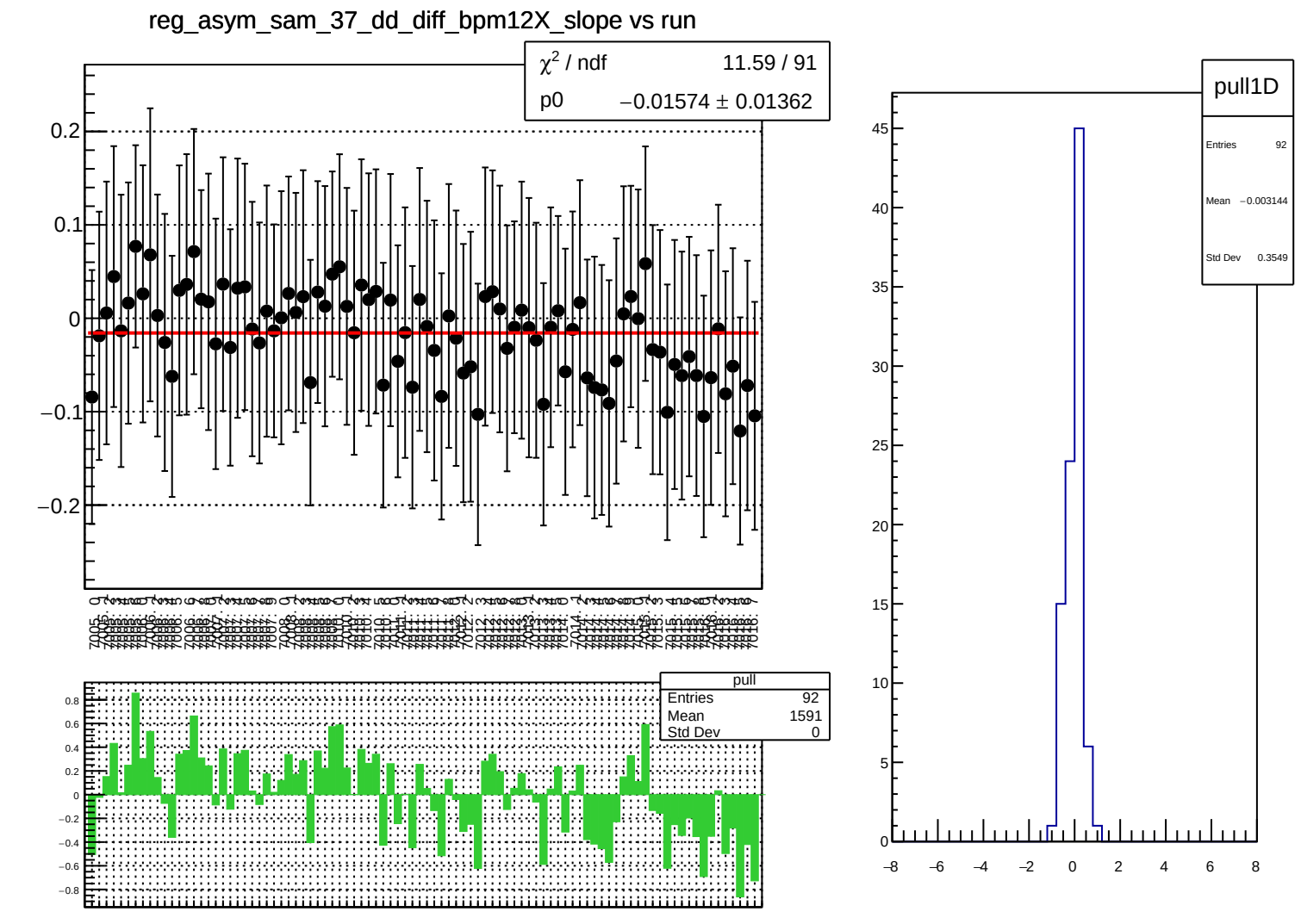

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 5.342 / 91
p0 0.3723 ± 0.0265
pull
Entries 92
Mean −1406
Std Dev 0
pull1D
Entries 92
Mean 0.003161
Std Dev 0.2409

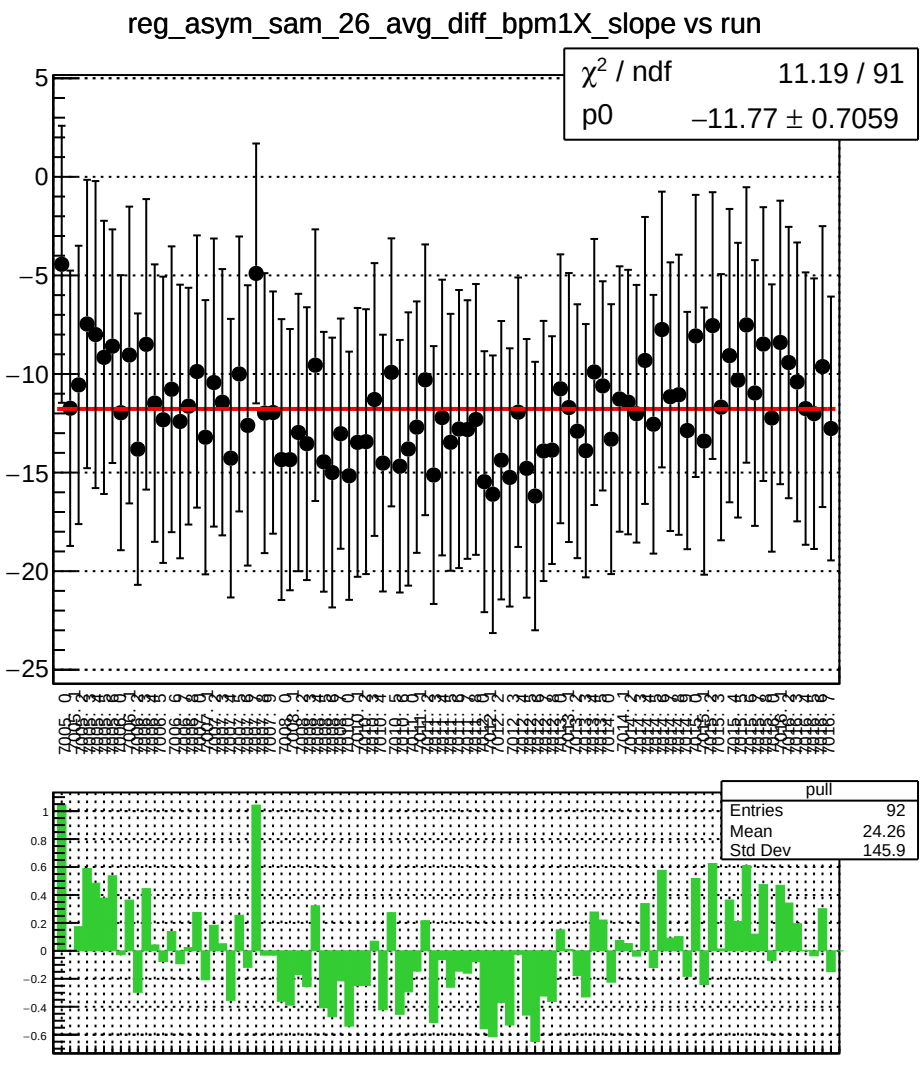

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 5.95 / 91
p0 −28.26 ± 0.4239
pull
Entries 92
Mean −712.8
Std Dev 0
pull1D
Entries 92
Mean 0.00114
Std Dev 0.2543

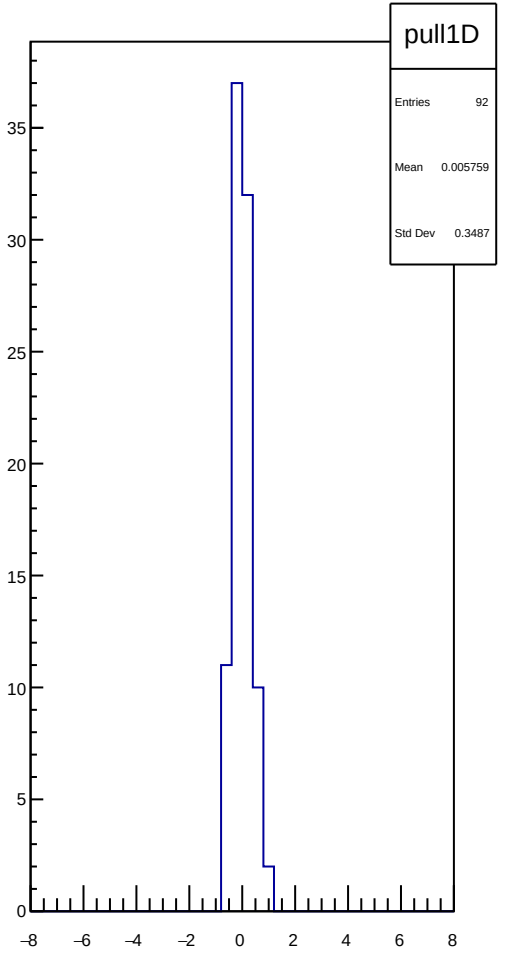

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.515 / 91
p0 −9.705 ± 0.2853
pull
Entries 92
Mean 40.12
Std Dev 0
pull1D
Entries 92
Mean −0.02792
Std Dev 0.2844

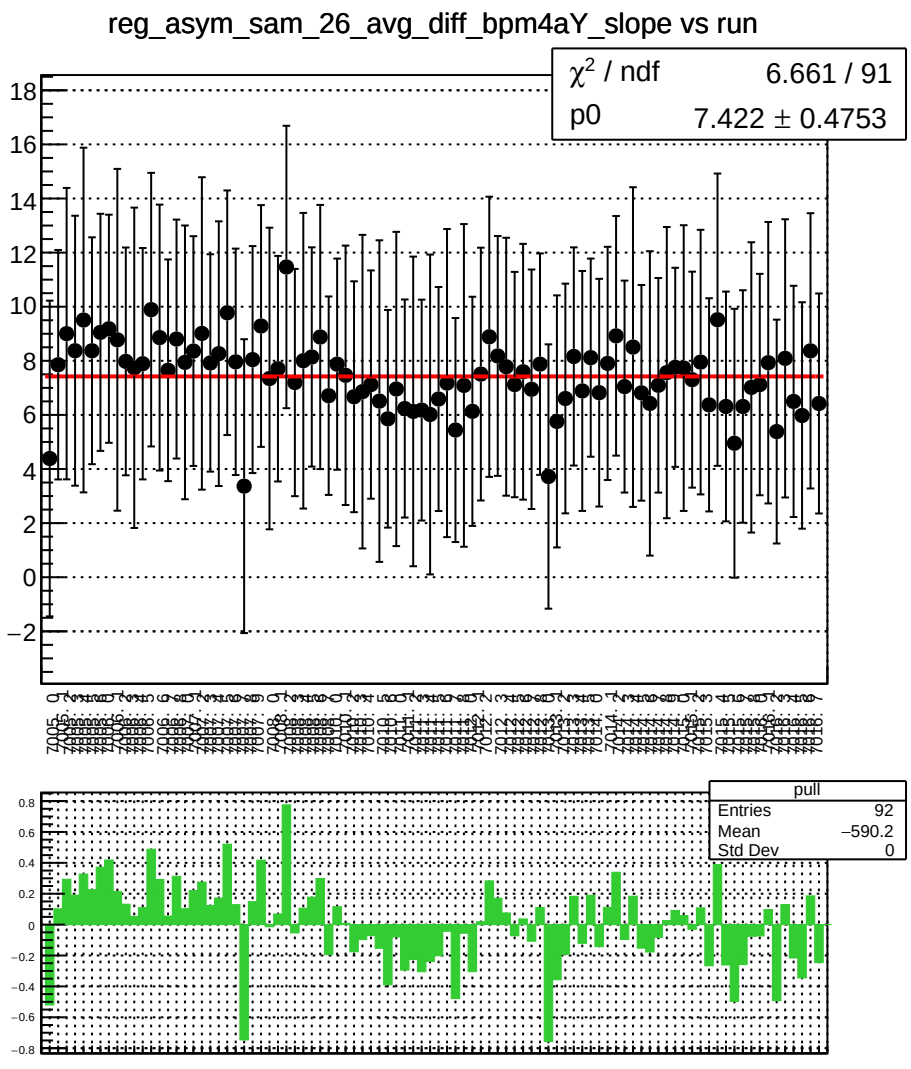

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.221 / 91
p0 −12.49 ± 0.3925
pull
Entries 92
Mean −363.1
Std Dev 0
pull1D
Entries 92
Mean −0.009322
Std Dev 0.2599

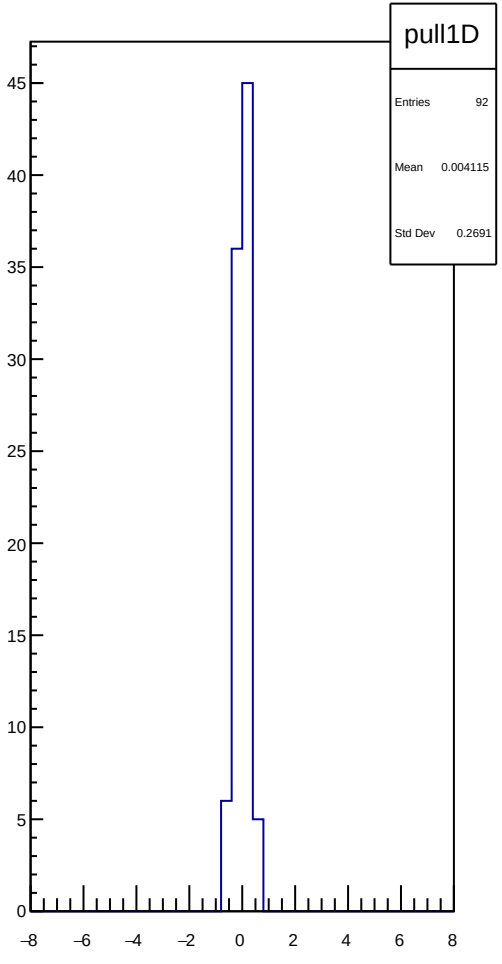

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.076 / 91
p0 25.5 ± 0.3002
pull
Entries 92
Mean 33.35
Std Dev 0
pull1D
Entries 92
Mean 0.01635
Std Dev 0.2769

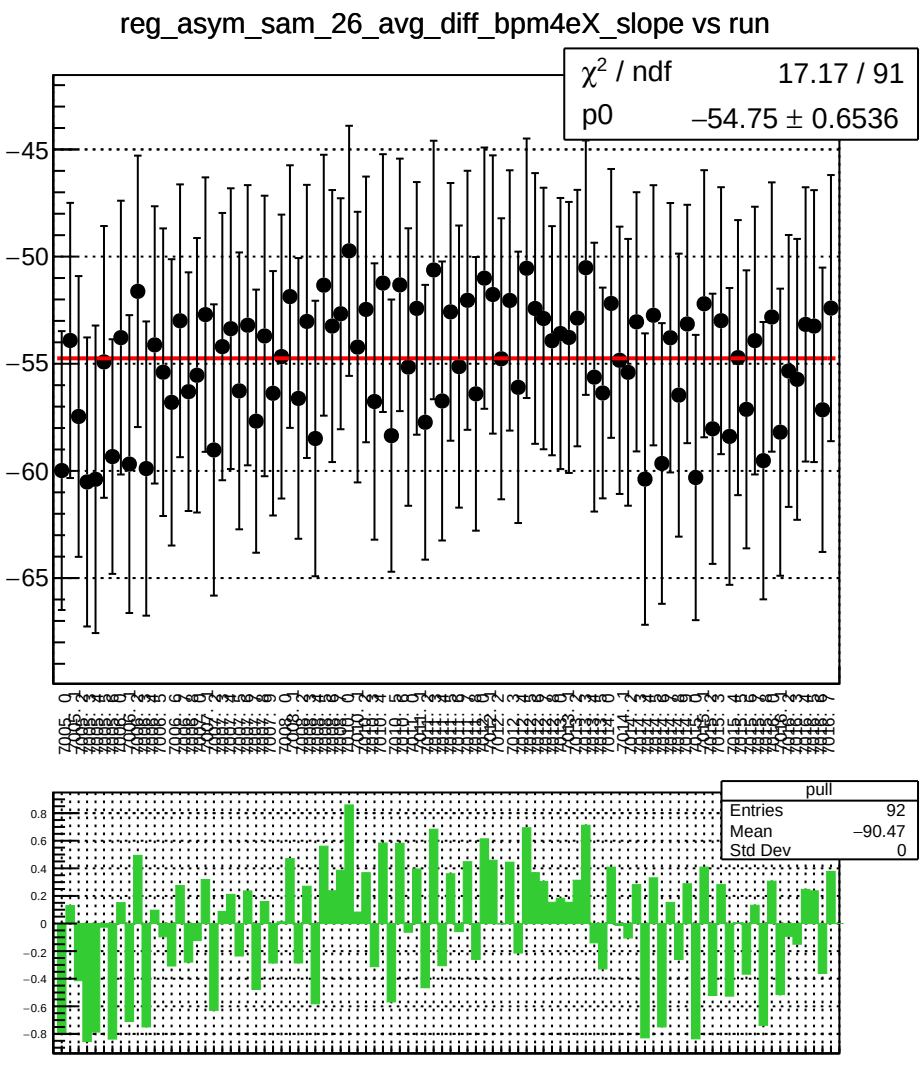

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 11.59 / 91
p0 −0.01574 ± 0.01362
pull
Entries 92
Mean 1591
Std Dev 0
pull1D
Entries 92
Mean −0.003144
Std Dev 0.3549

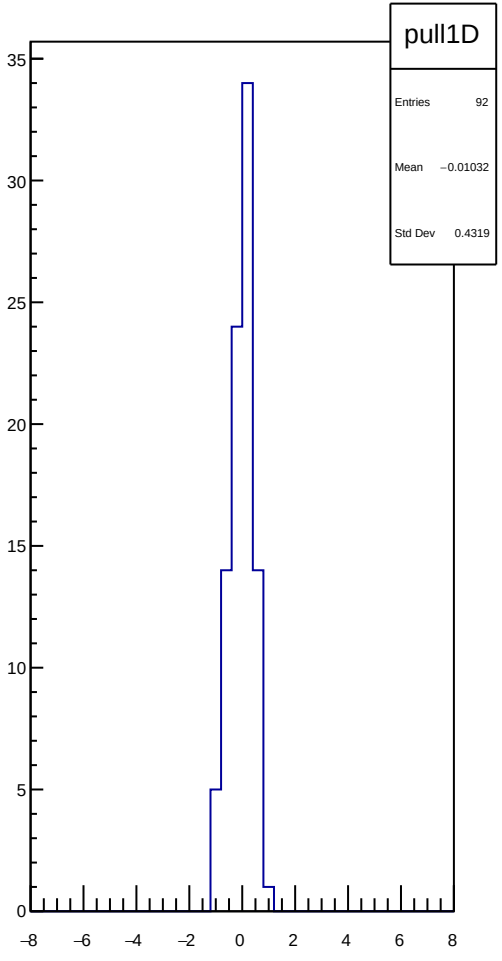

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 11.19 / 91
p0 −11.77 ± 0.7059
pull
Entries 92
Mean 24.26
Std Dev 145.9

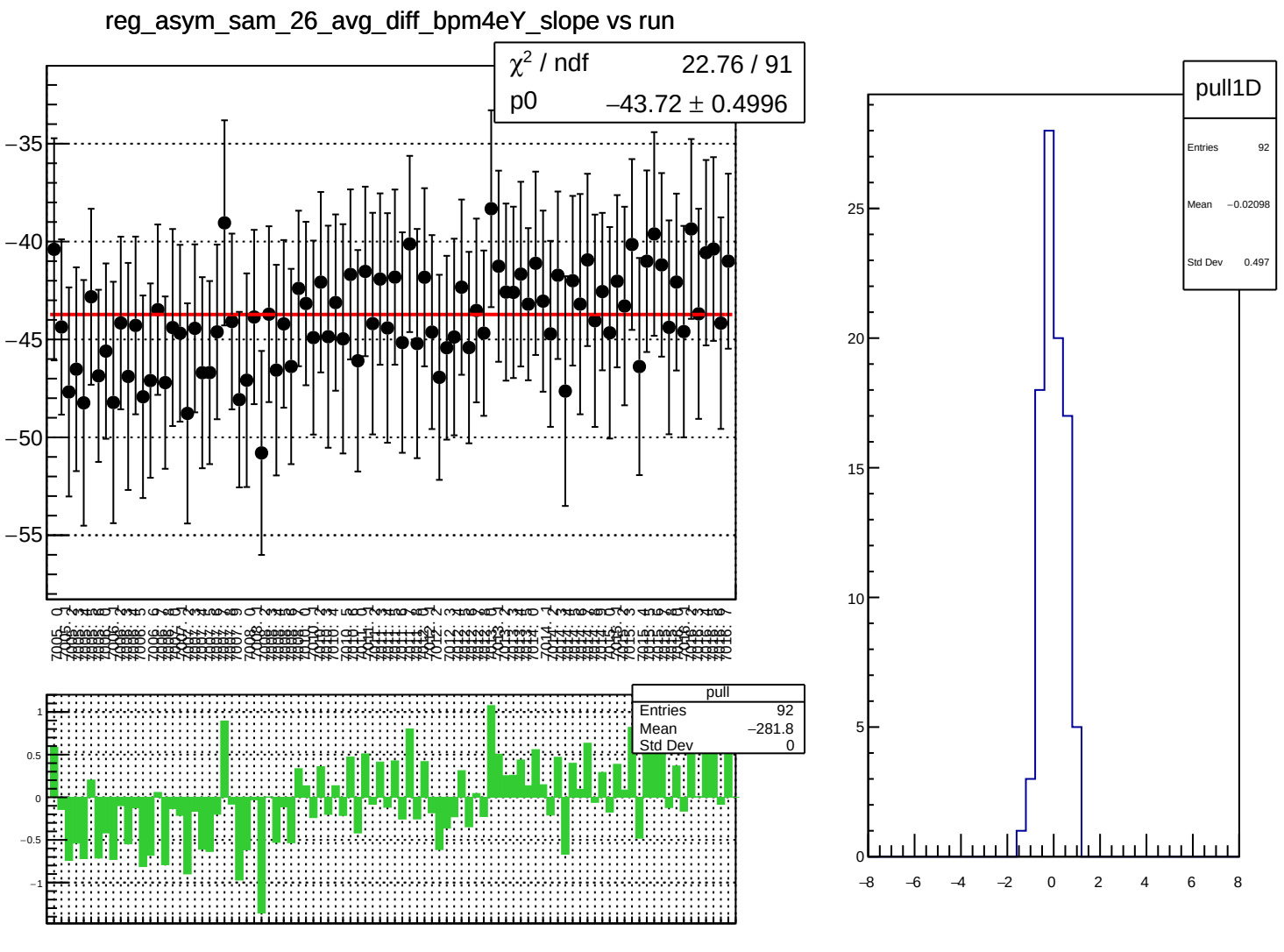

pull1D
Entries 92
Mean 0.005759
Std Dev 0.3487

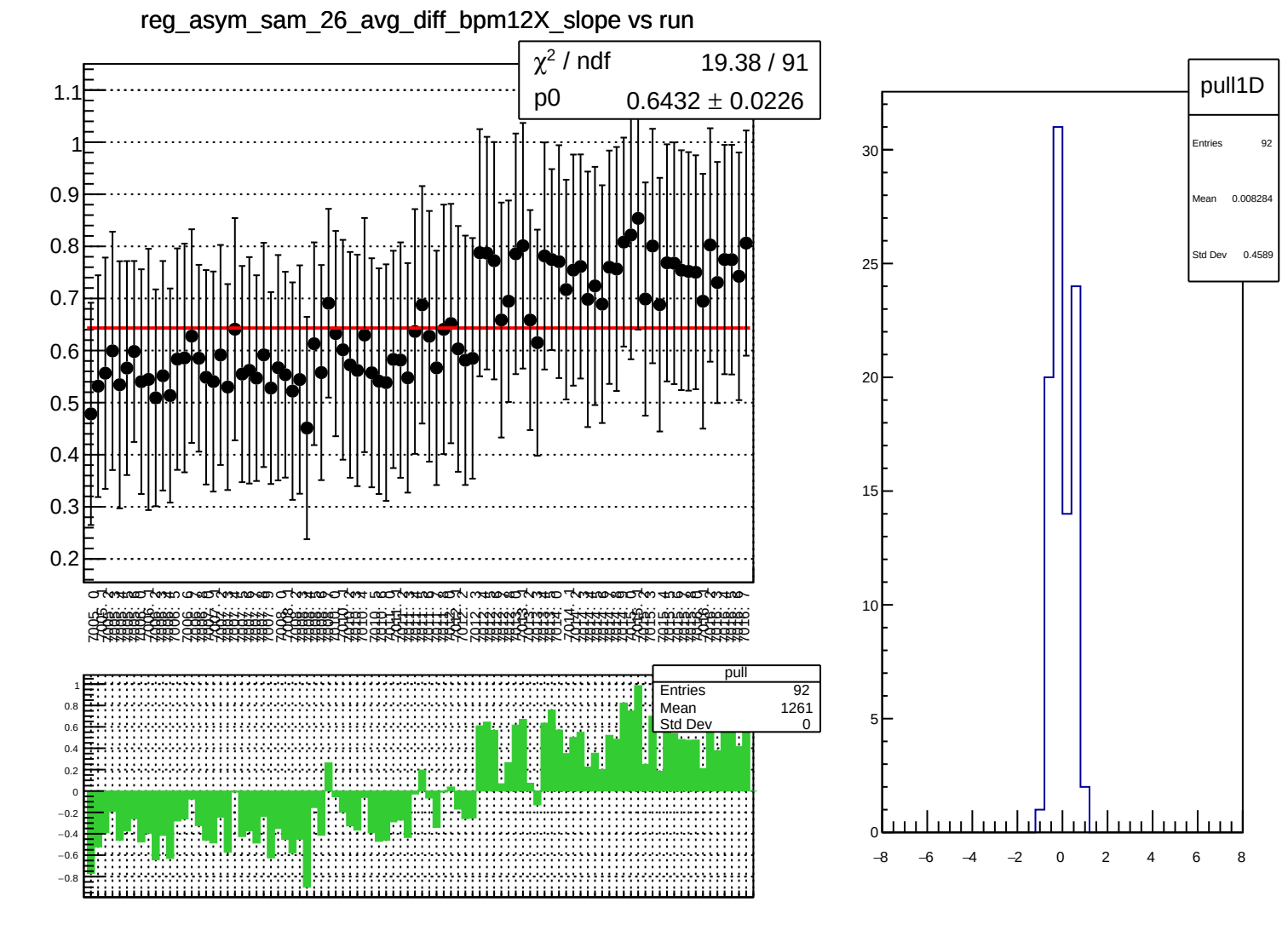

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.661 / 91
p0 7.422 ± 0.4753
pull
Entries 92
Mean −590.2
Std Dev 0

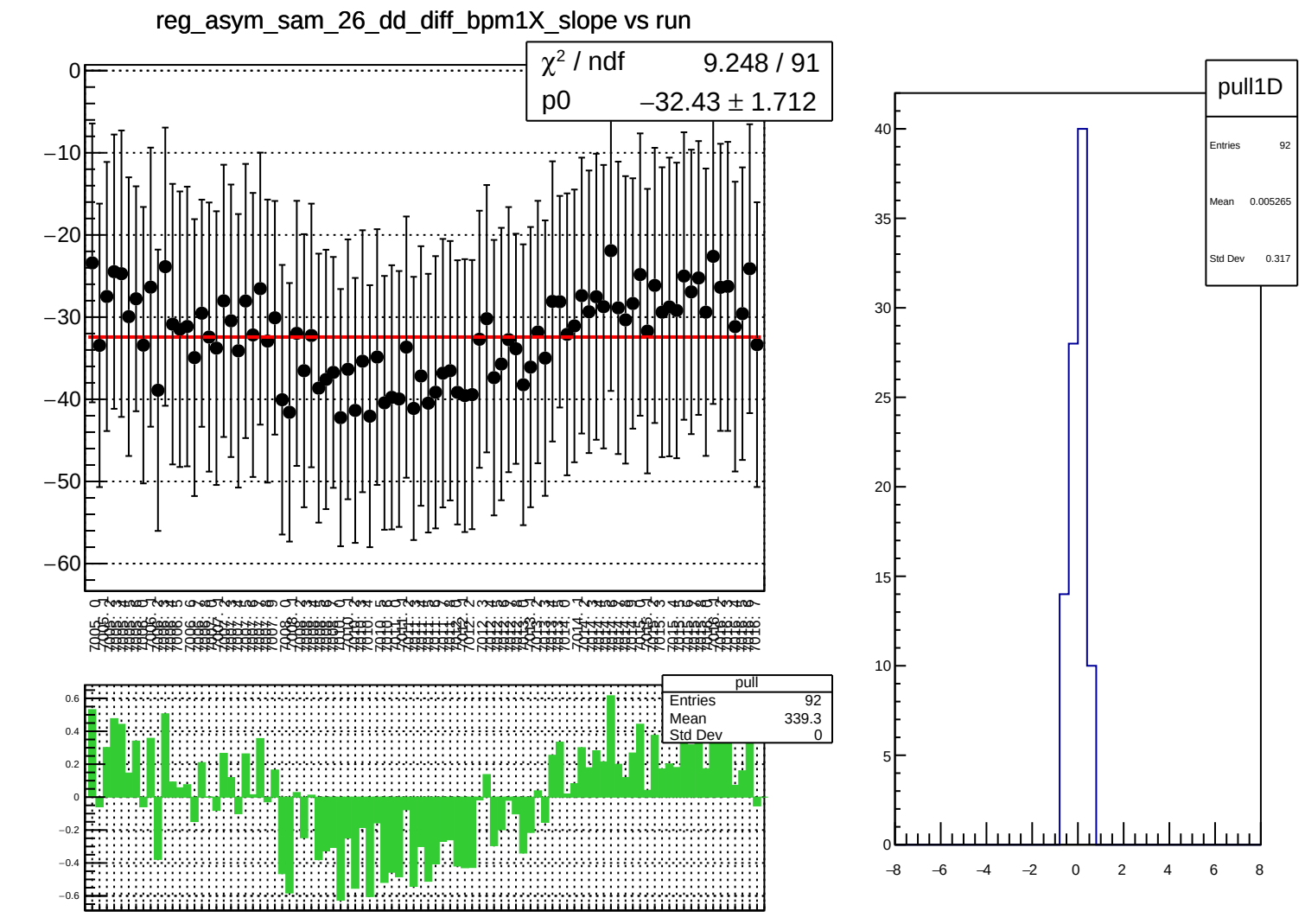

pull1D
Entries 92
Mean 0.004115
Std Dev 0.2691

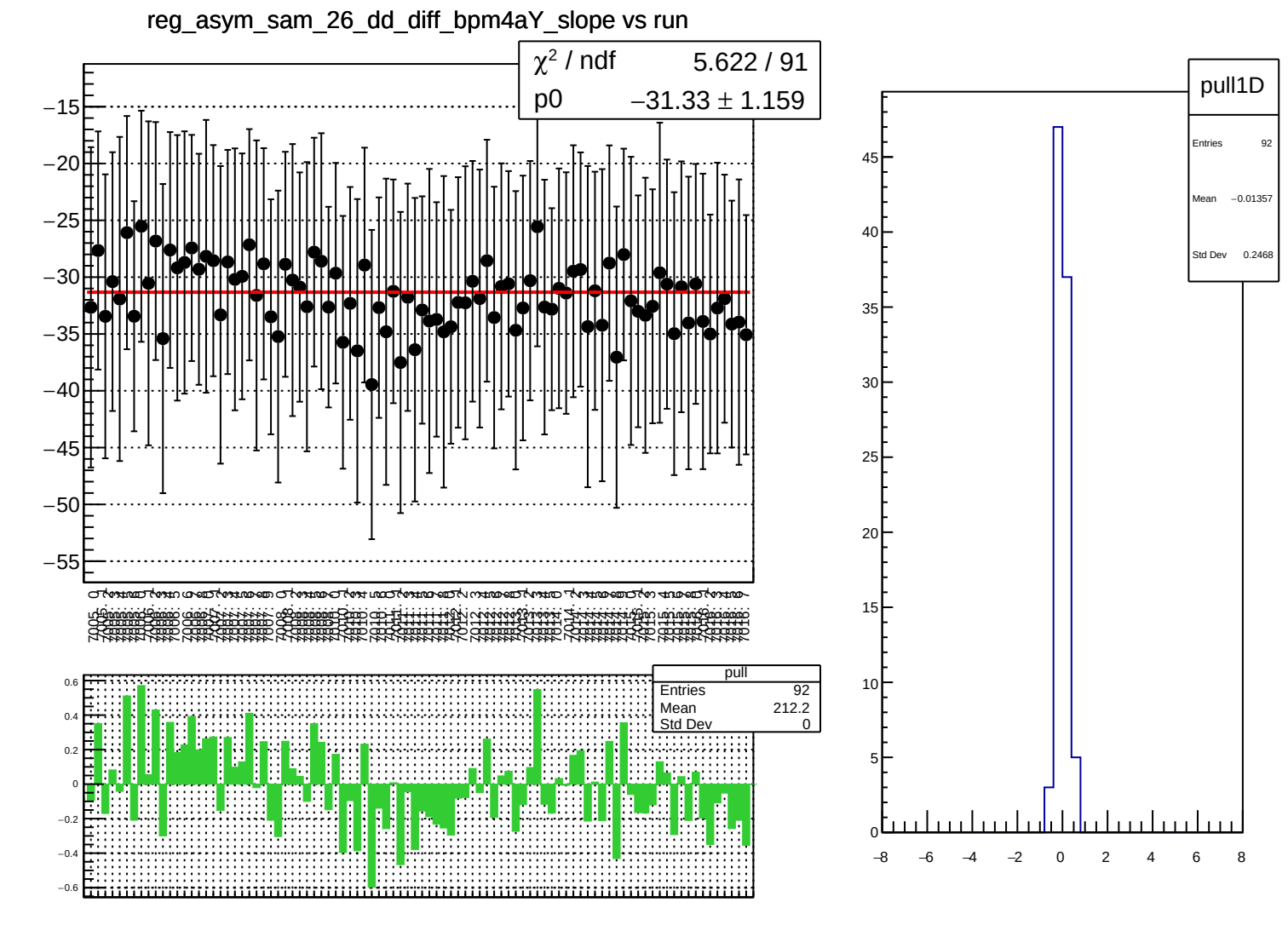

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.17 / 91
p0 −54.75 ± 0.6536
pull
Entries 92
Mean −90.47
Std Dev 0

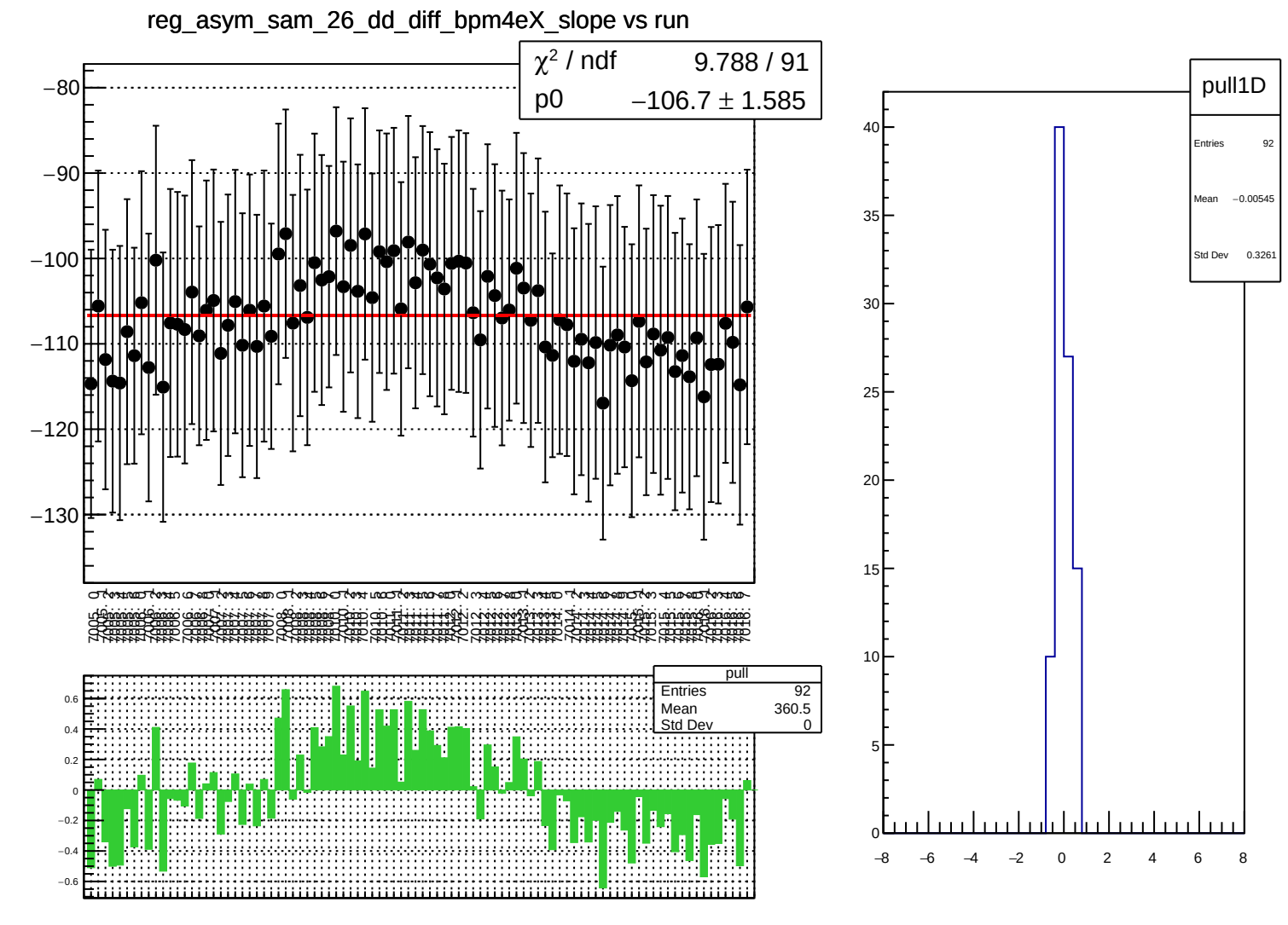

pull1D
Entries 92
Mean −0.01032
Std Dev 0.4319

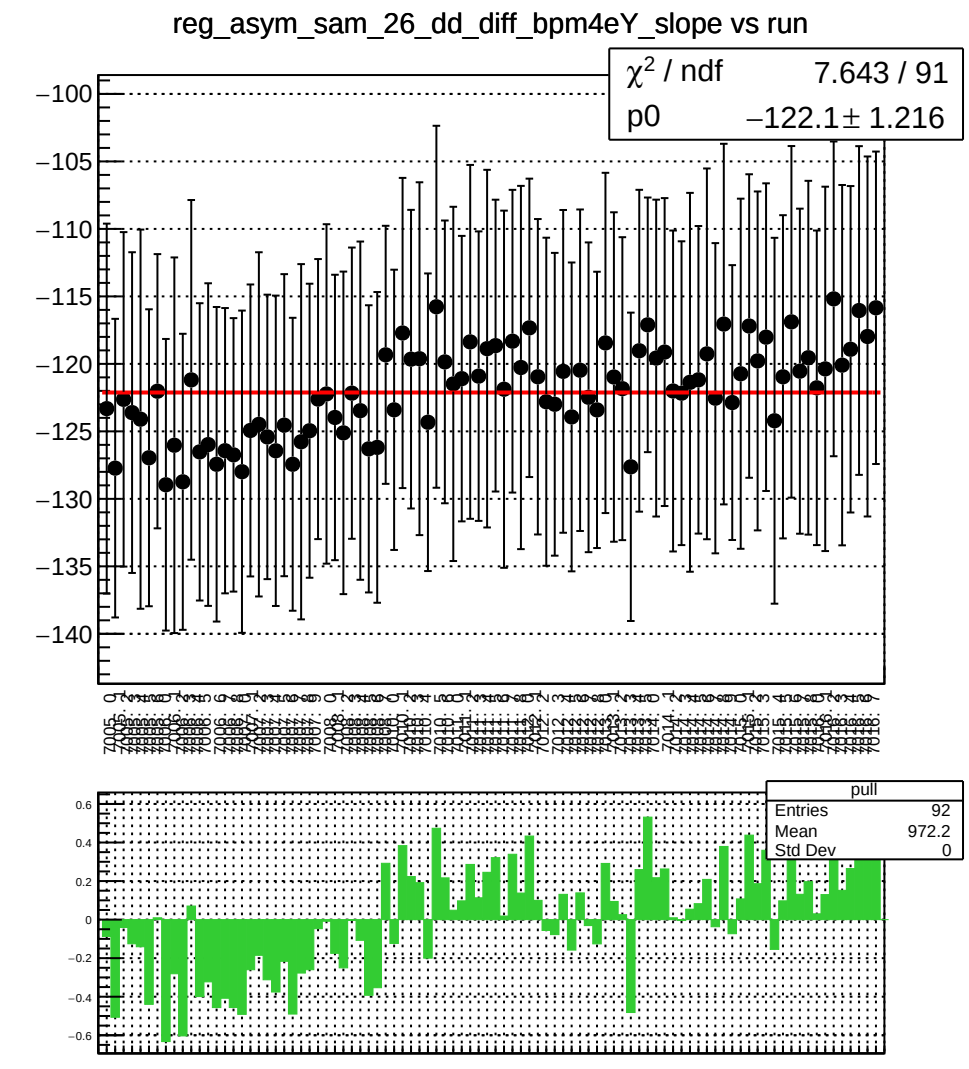

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.76 / 91
p0 −43.72 ± 0.4996
−35
−40
−45
−50
−55
pull
Entries 92
Mean −281.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.02098
Std Dev 0.497
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

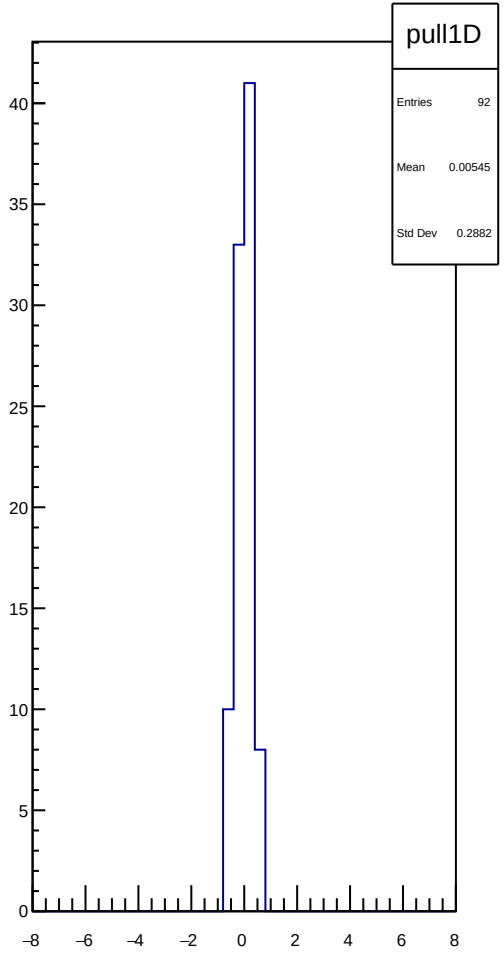

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 19.38 / 91
p0 0.6432 ± 0.0226
pull
Entries 92
Mean 1261
Std Dev 0
pull1D
Entries 92
Mean 0.008284
Std Dev 0.4589

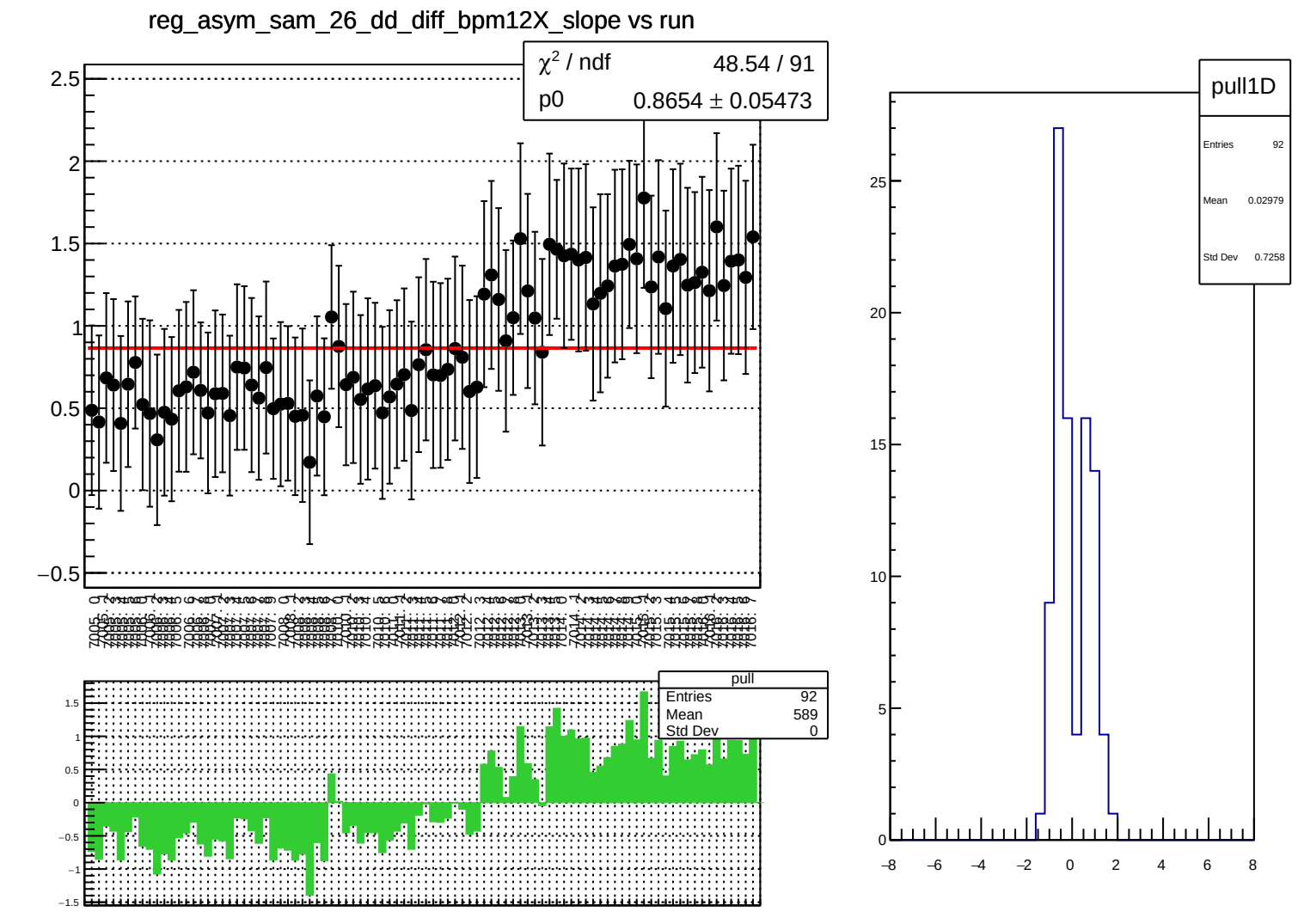

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 9.248 / 91
p0 −32.43 ± 1.712
pull
Entries 92
Mean 339.3
Std Dev 0
pull1D
Entries 92
Mean 0.005265
Std Dev 0.317

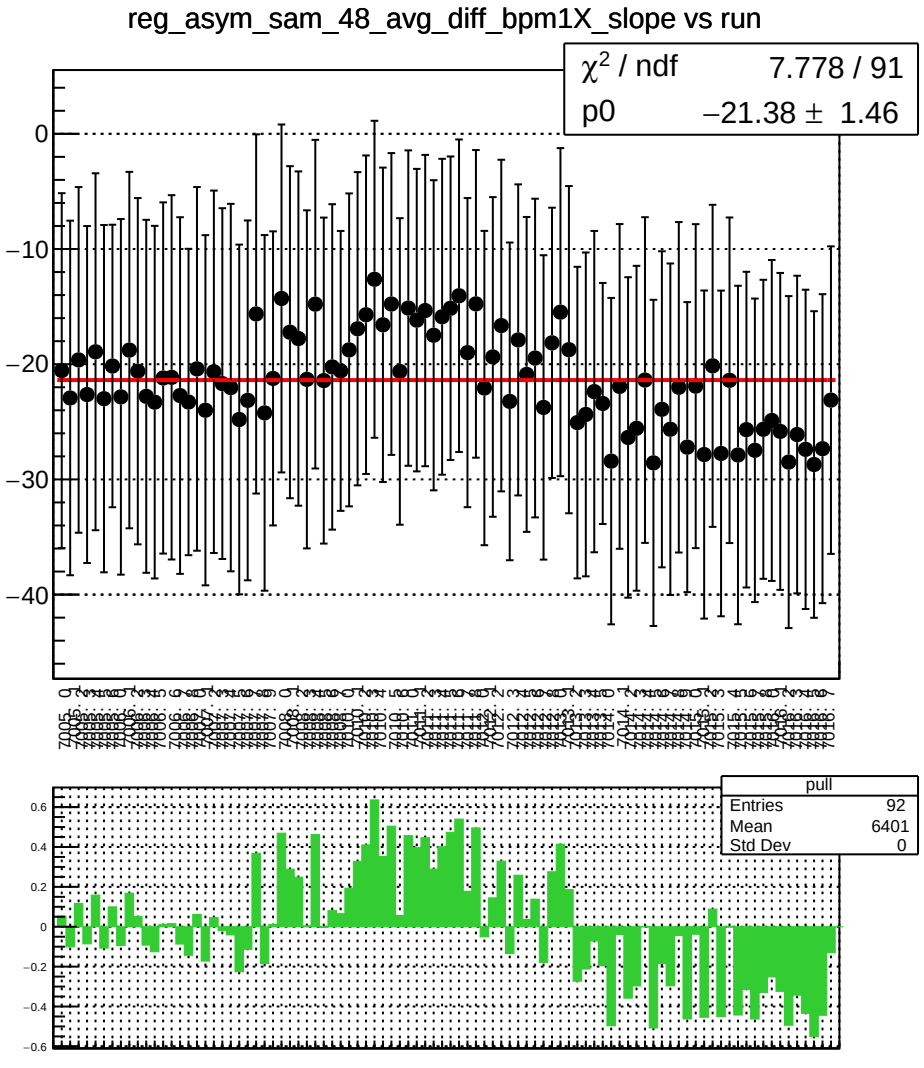

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.622 / 91
p0 −31.33 ± 1.159
pull
Entries 92
Mean 212.2
Std Dev 0
pull1D
Entries 92
Mean −0.01357
Std Dev 0.2468

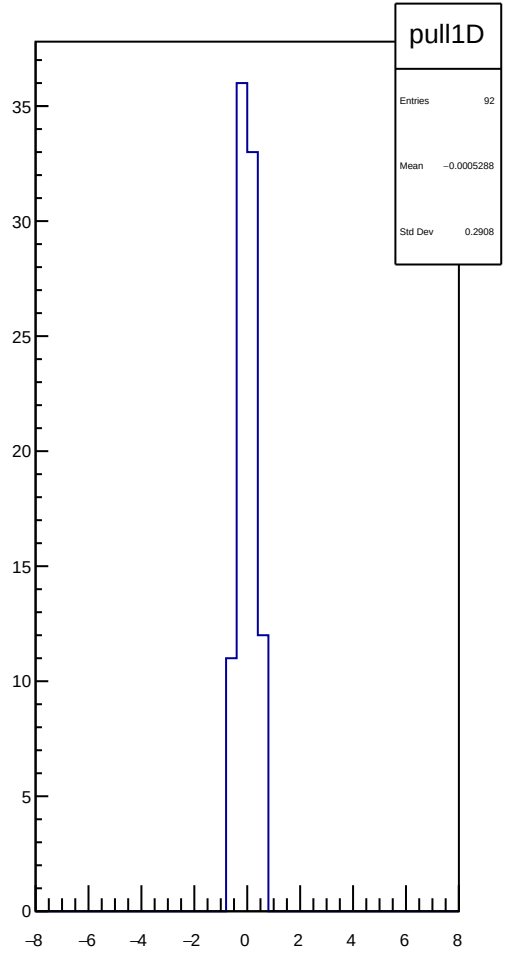

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.788 / 91
p0 −106.7 ± 1.585
−80
−90
−100
−110
−120
−130
pull
Entries 92
Mean 360.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.00545
Std Dev 0.3261
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

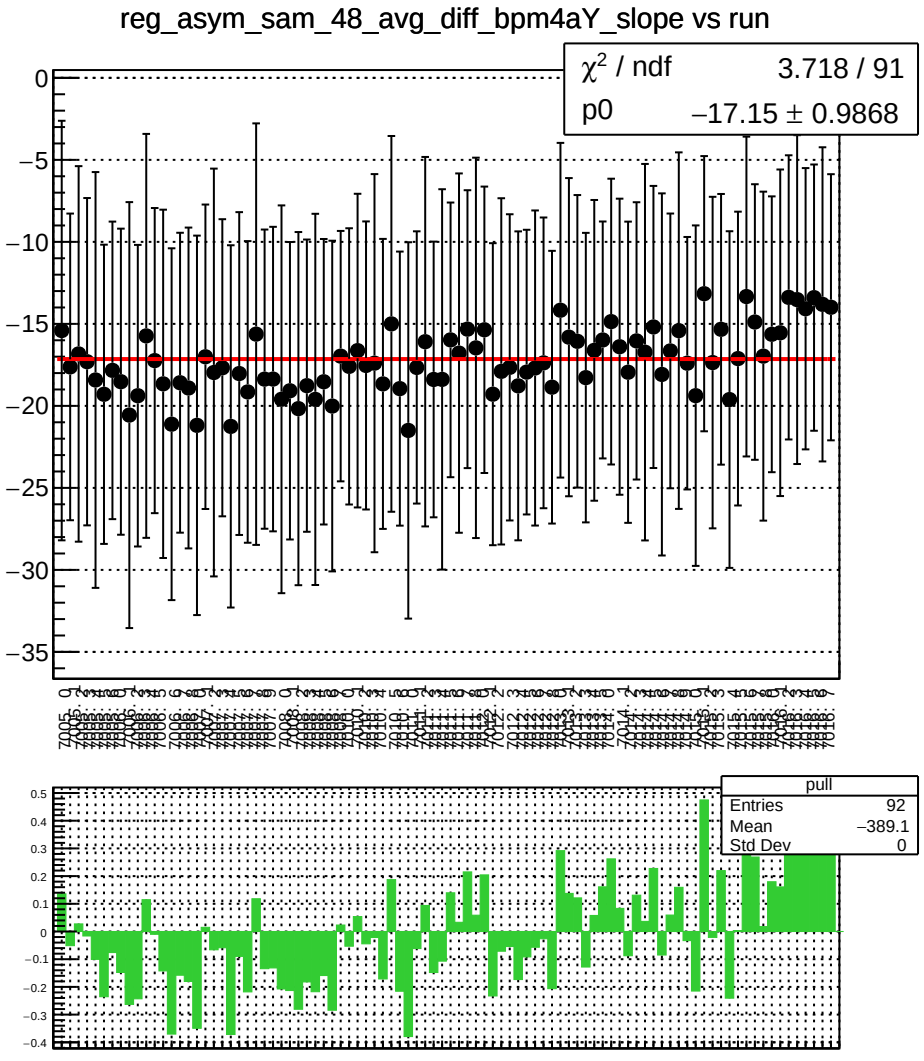

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.643 / 91
p0 −122.1± 1.216
pull
Entries 92
Mean 972.2
Std Dev 0

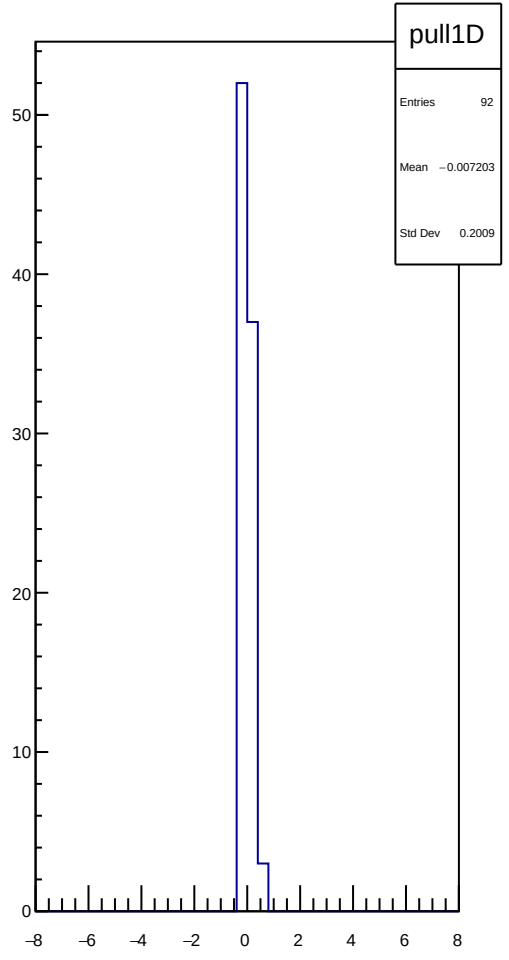

pull1D
Entries 92
Mean 0.00545
Std Dev 0.2882

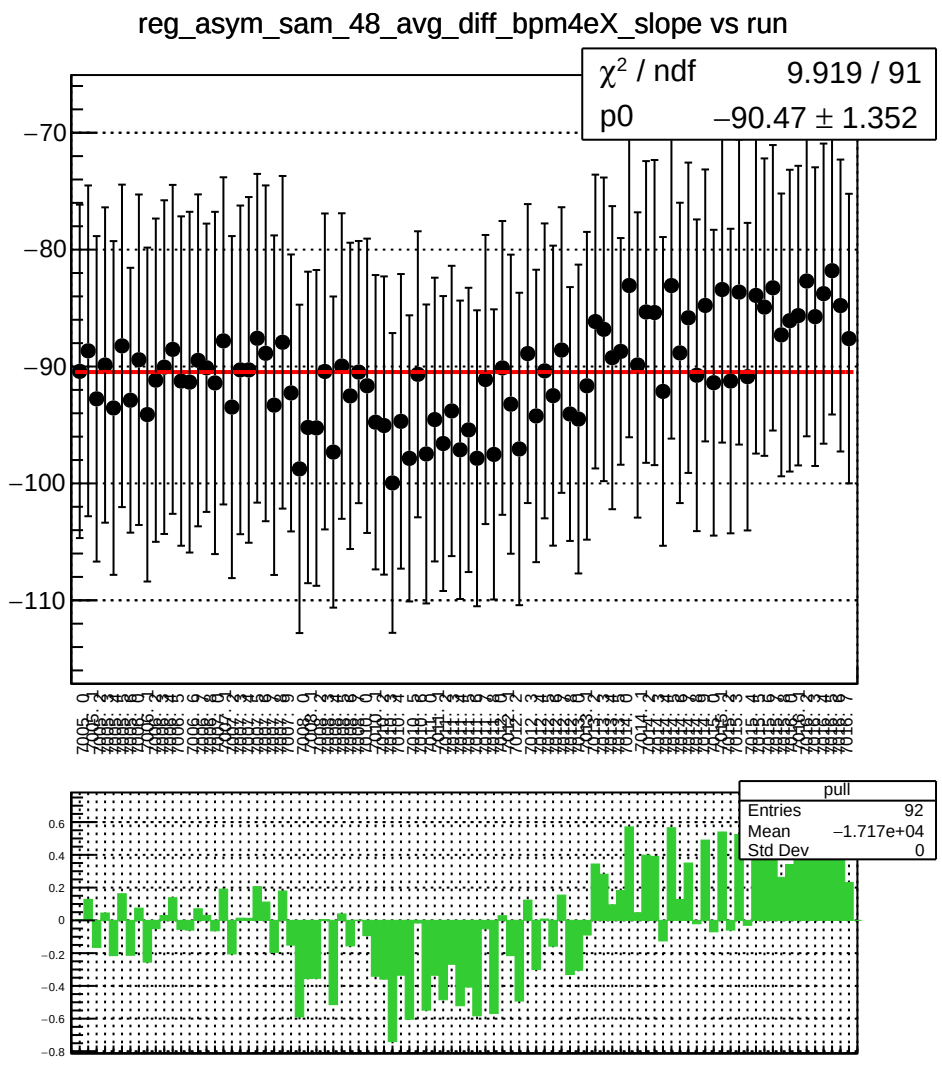

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 48.54 / 91
p0 0.8654 ± 0.05473
pull
Entries 92
Mean 589
Std Dev 0
pull1D
Entries 92
Mean 0.02979
Std Dev 0.7258

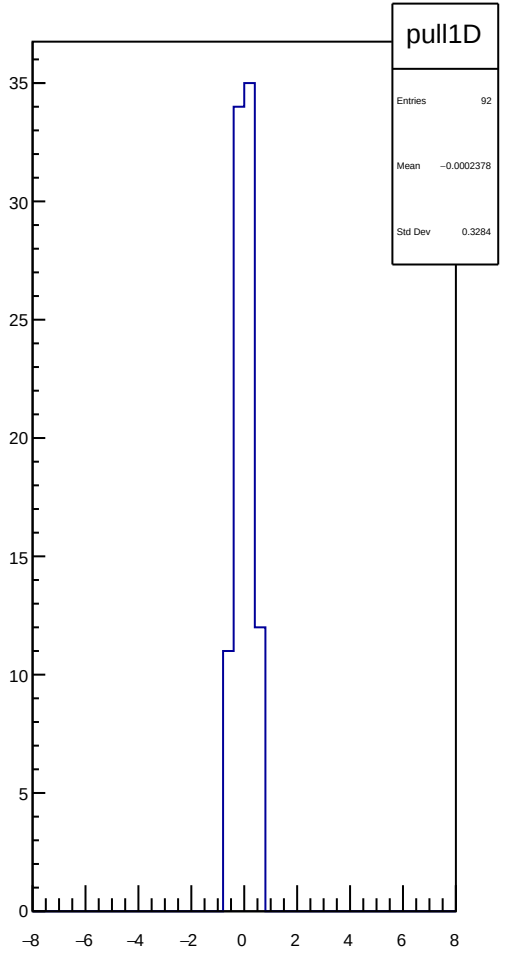

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 7.778 / 91
p0 −21.38 ± 1.46
pull
Entries 92
Mean 6401
Std Dev 0

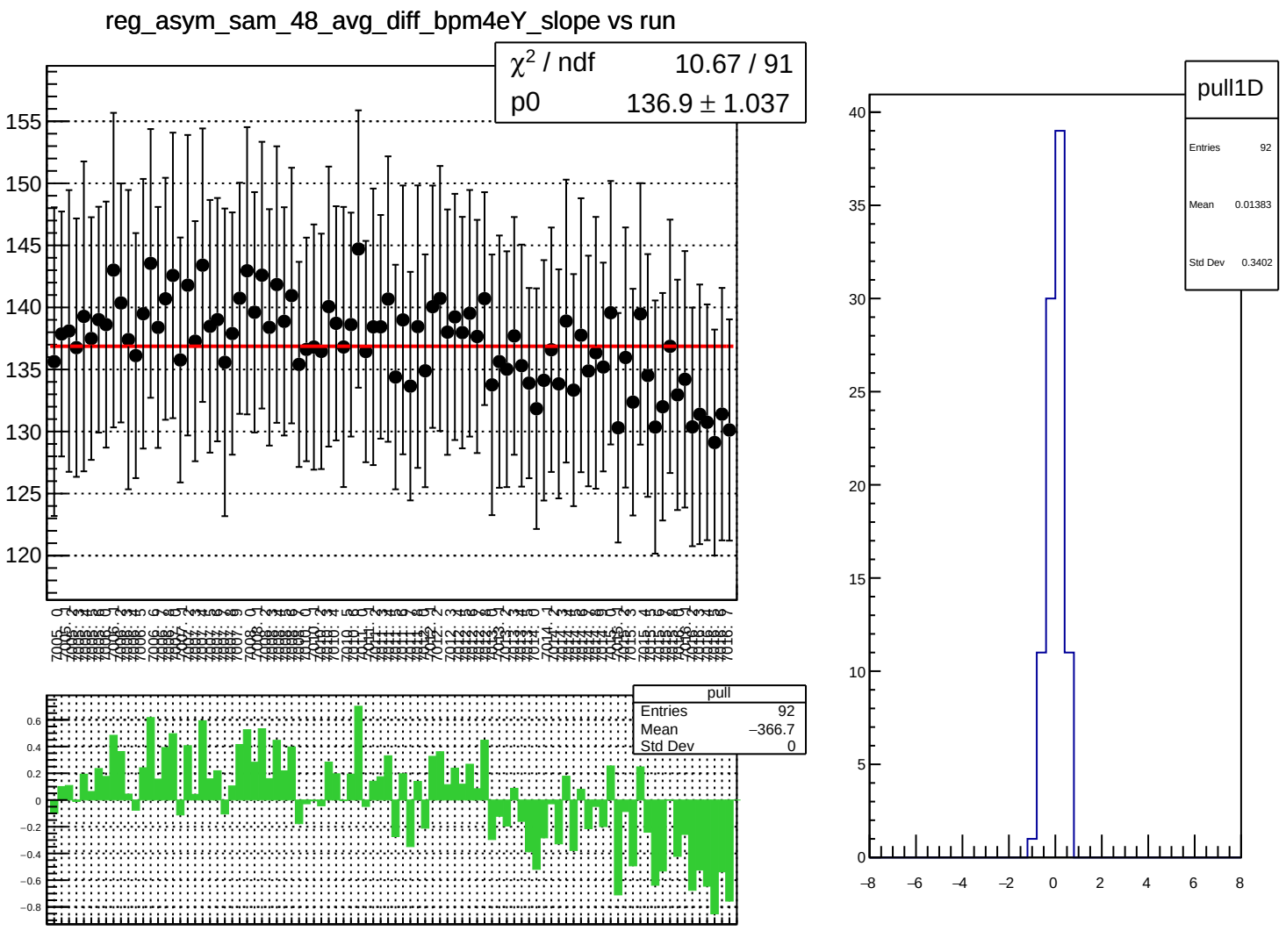

pull1D
Entries 92
Mean −0.0005288
Std Dev 0.2908

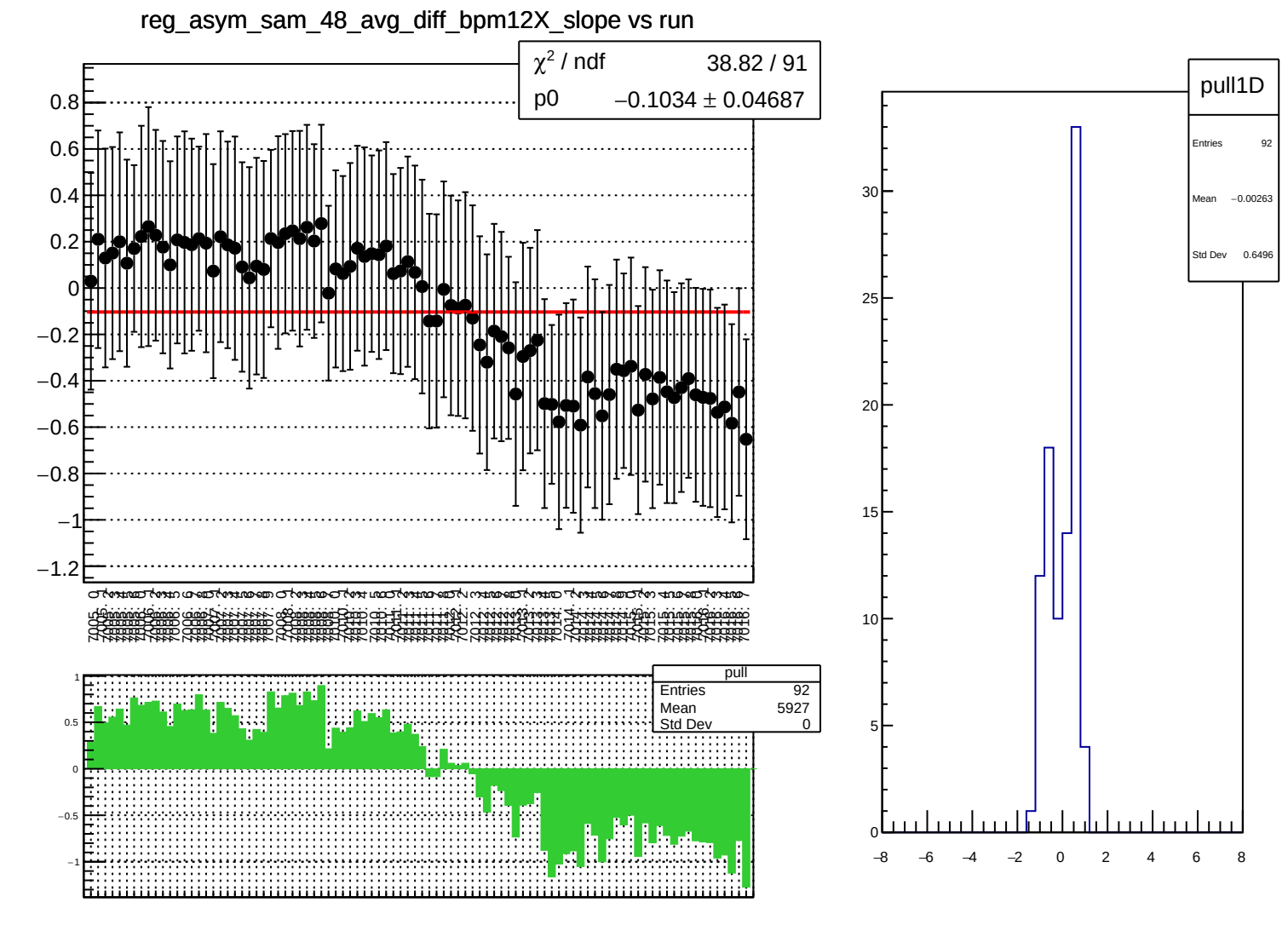

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.718 / 91
p0 −17.15 ± 0.9868
pull
Entries 92
Mean −389.1
Std Dev 0

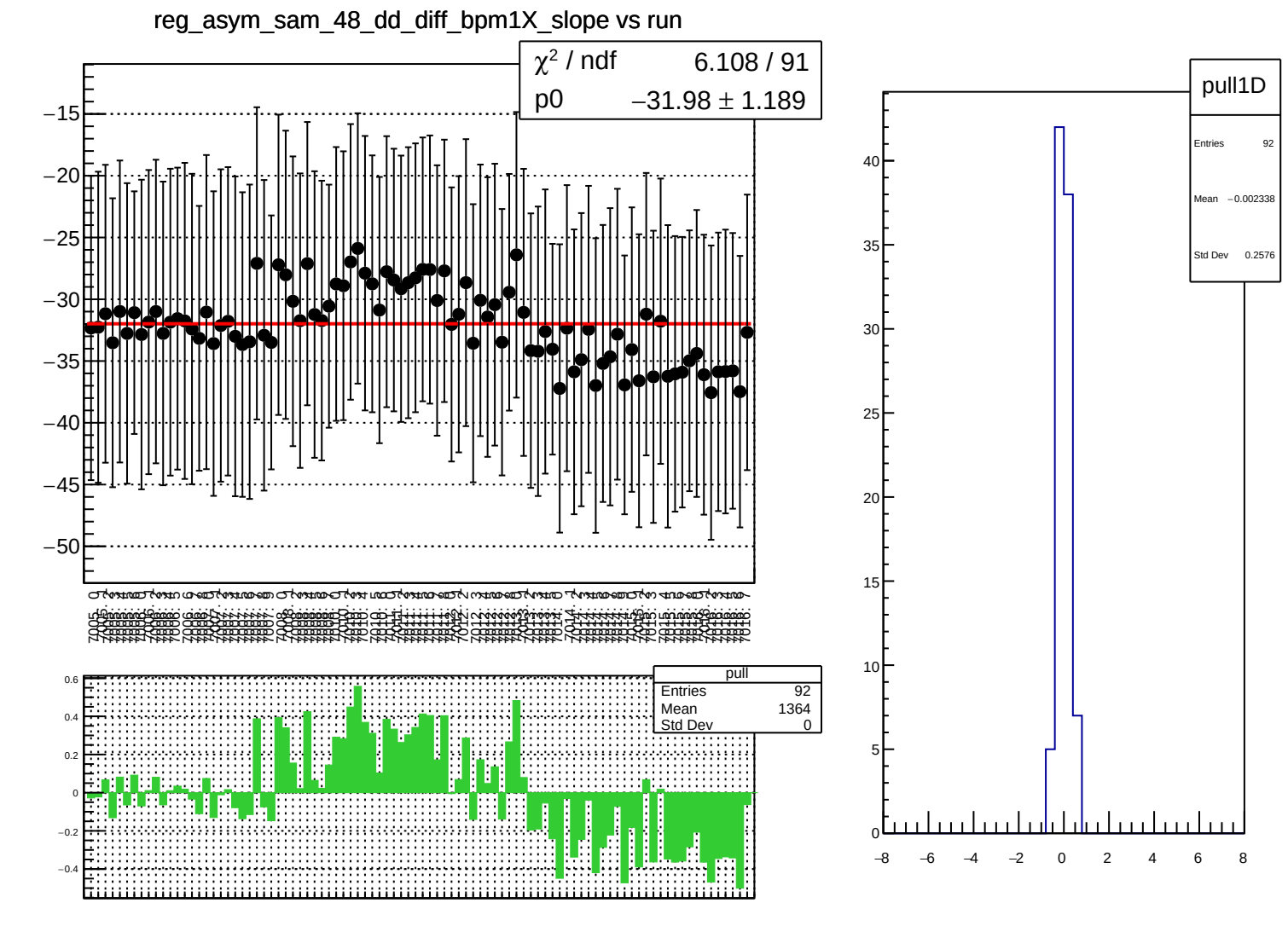

pull1D
Entries 92
Mean −0.007203
Std Dev 0.2009

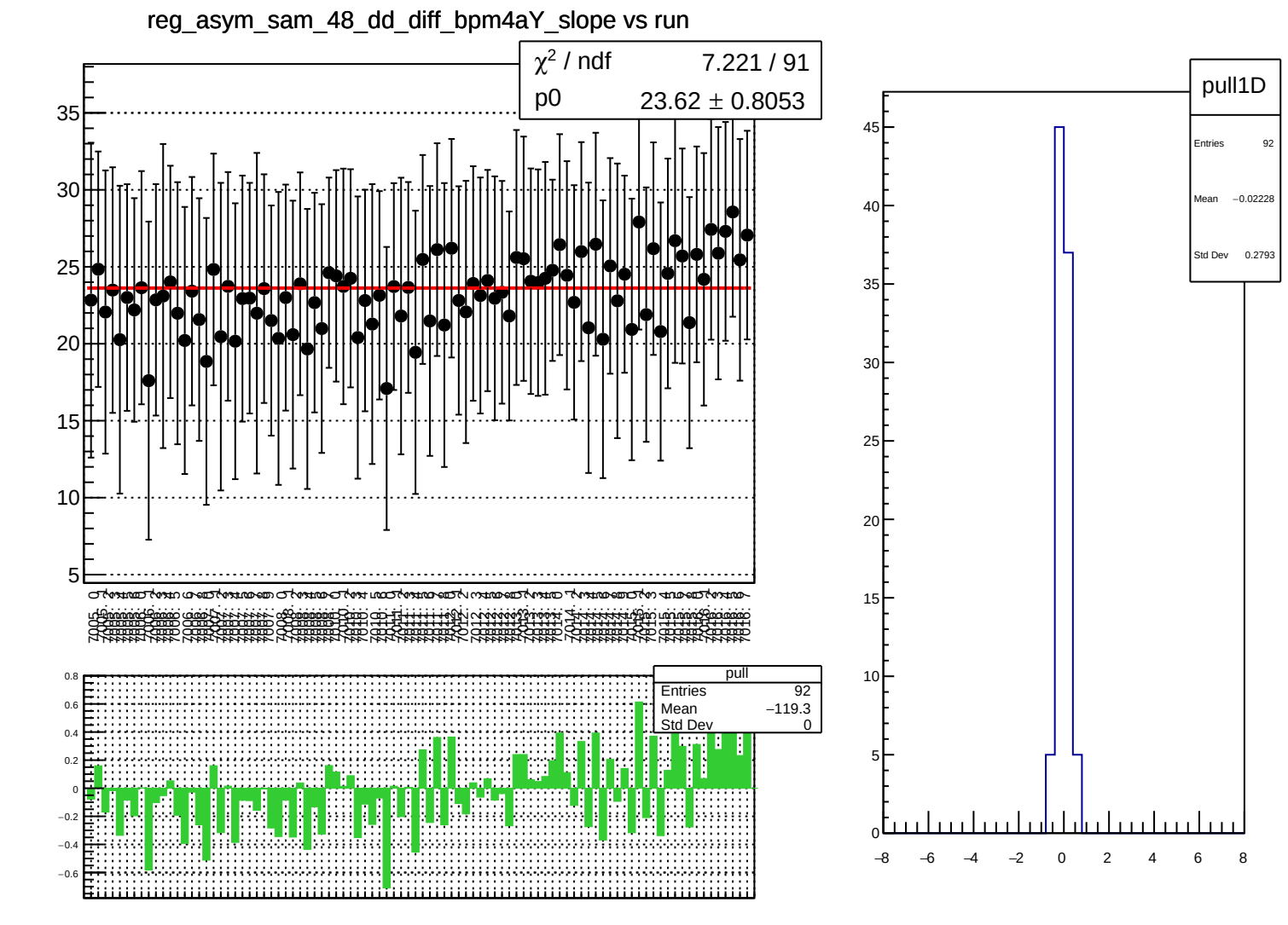

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.919 / 91
p0 −90.47 ± 1.352
−70
−80
−90
−100
−110
pull
Entries 92
Mean −1.717e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

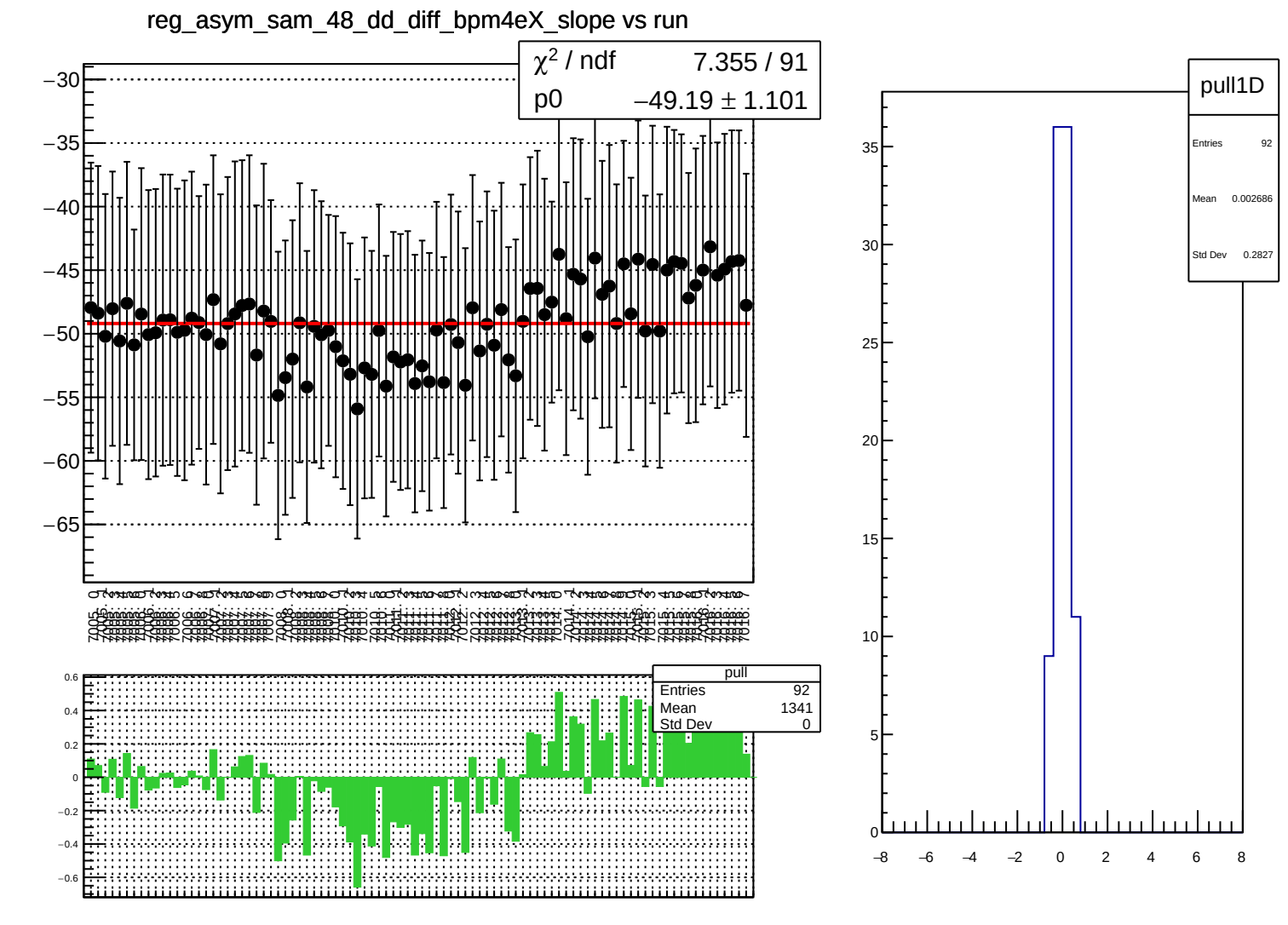

pull1D
Entries 92
Mean −0.0002378
Std Dev 0.3284
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

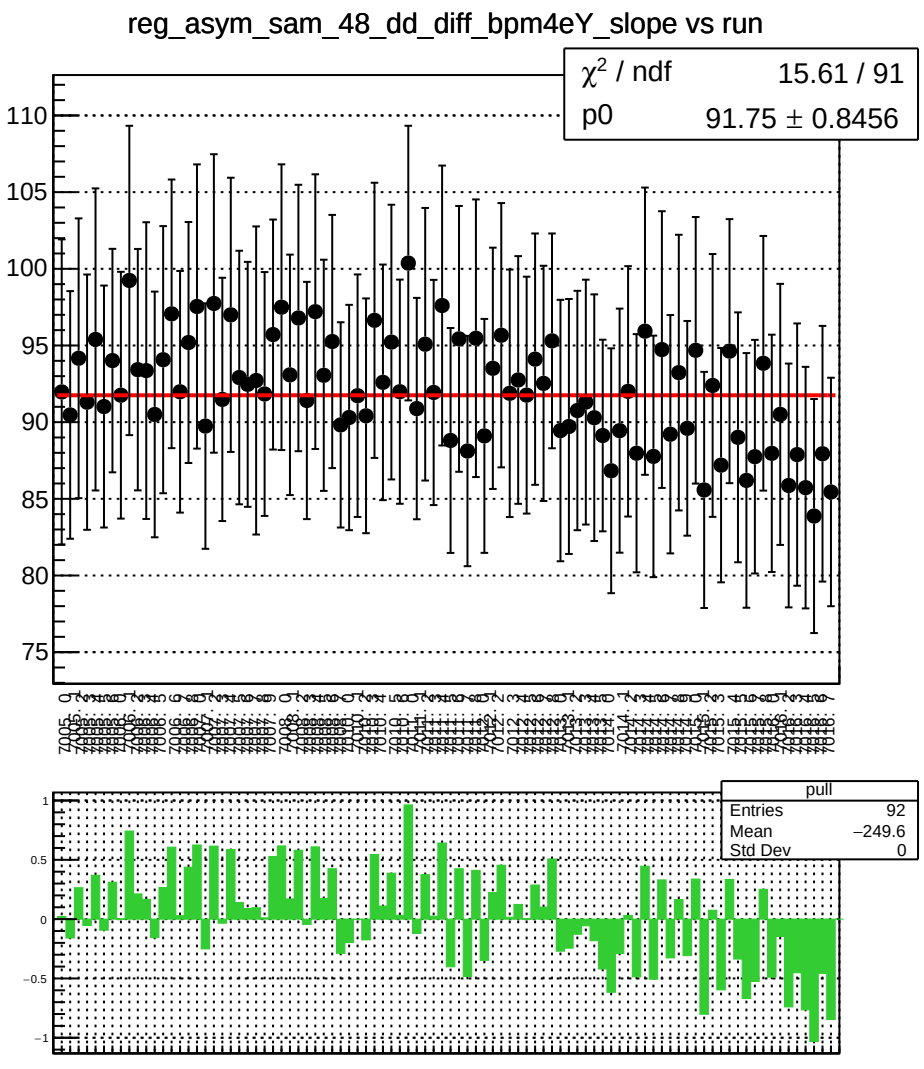

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.67 / 91
p0 136.9 ± 1.037
155
150
145
140
135
130
125
120
pull
Entries 92
Mean −366.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean 0.01383
Std Dev 0.3402
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

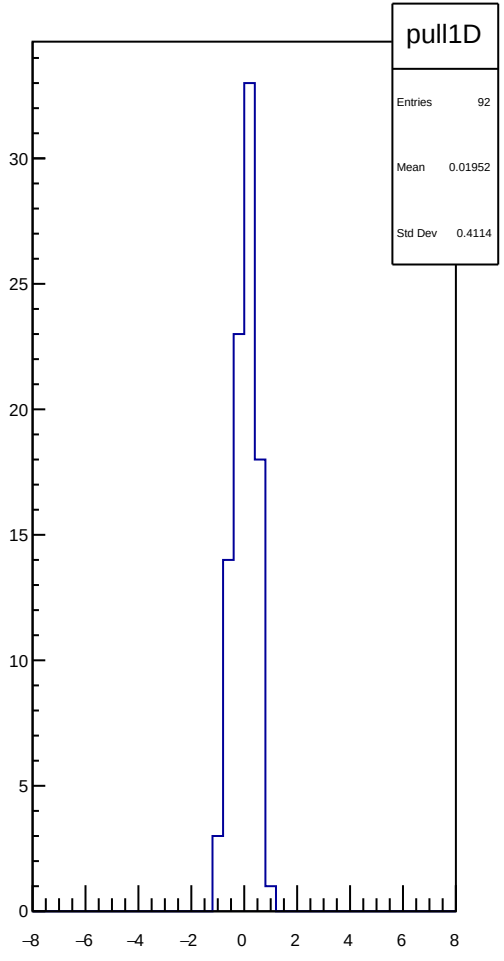

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 38.82 / 91
p0 −0.1034 ± 0.04687
pull
Entries 92
Mean 5927
Std Dev 0
pull1D
Entries 92
Mean −0.00263
Std Dev 0.6496

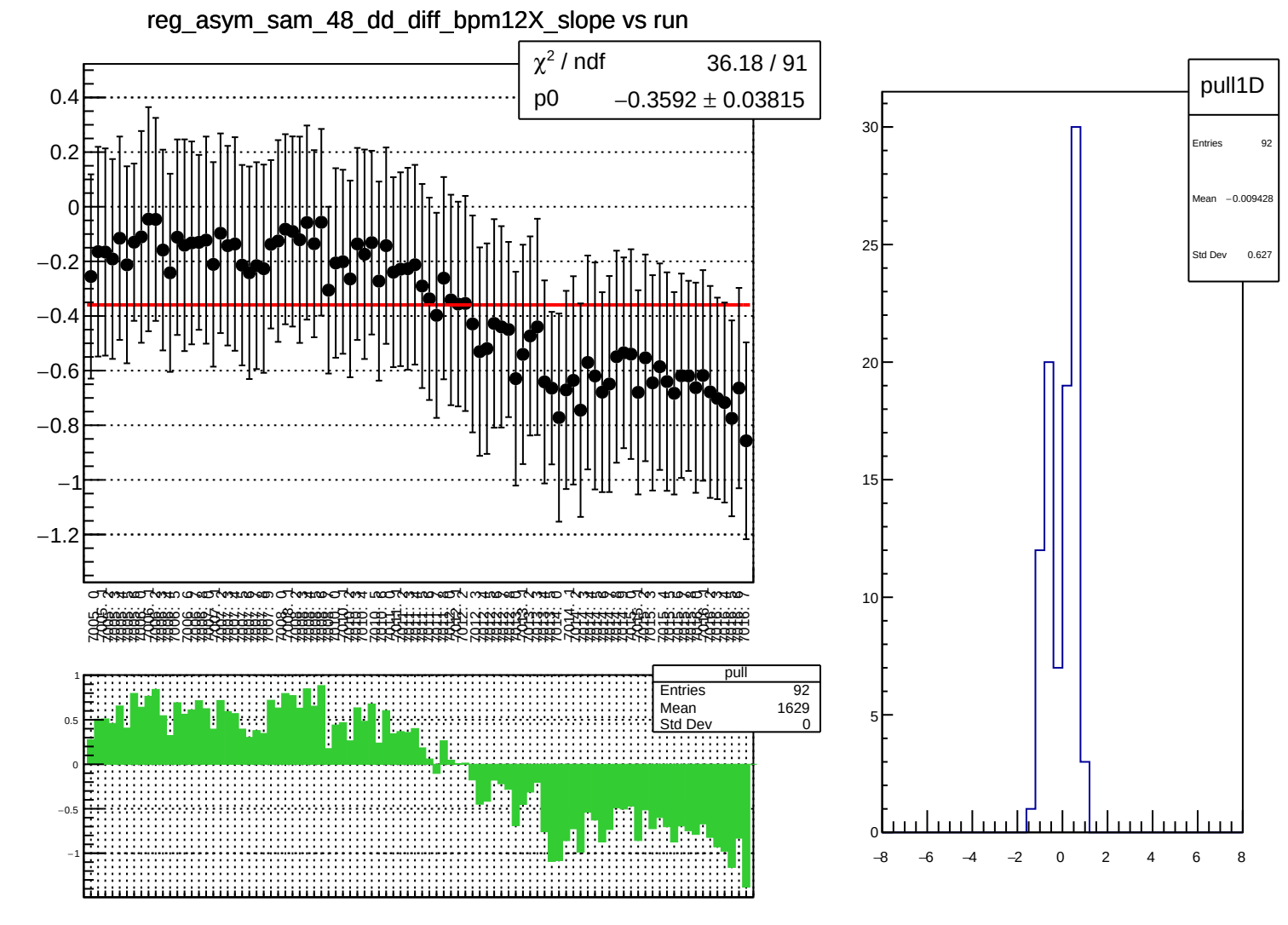

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.108 / 91
p0 −31.98 ± 1.189
pull
Entries 92
Mean 1364
Std Dev 0
pull1D
Entries 92
Mean −0.002338
Std Dev 0.2576

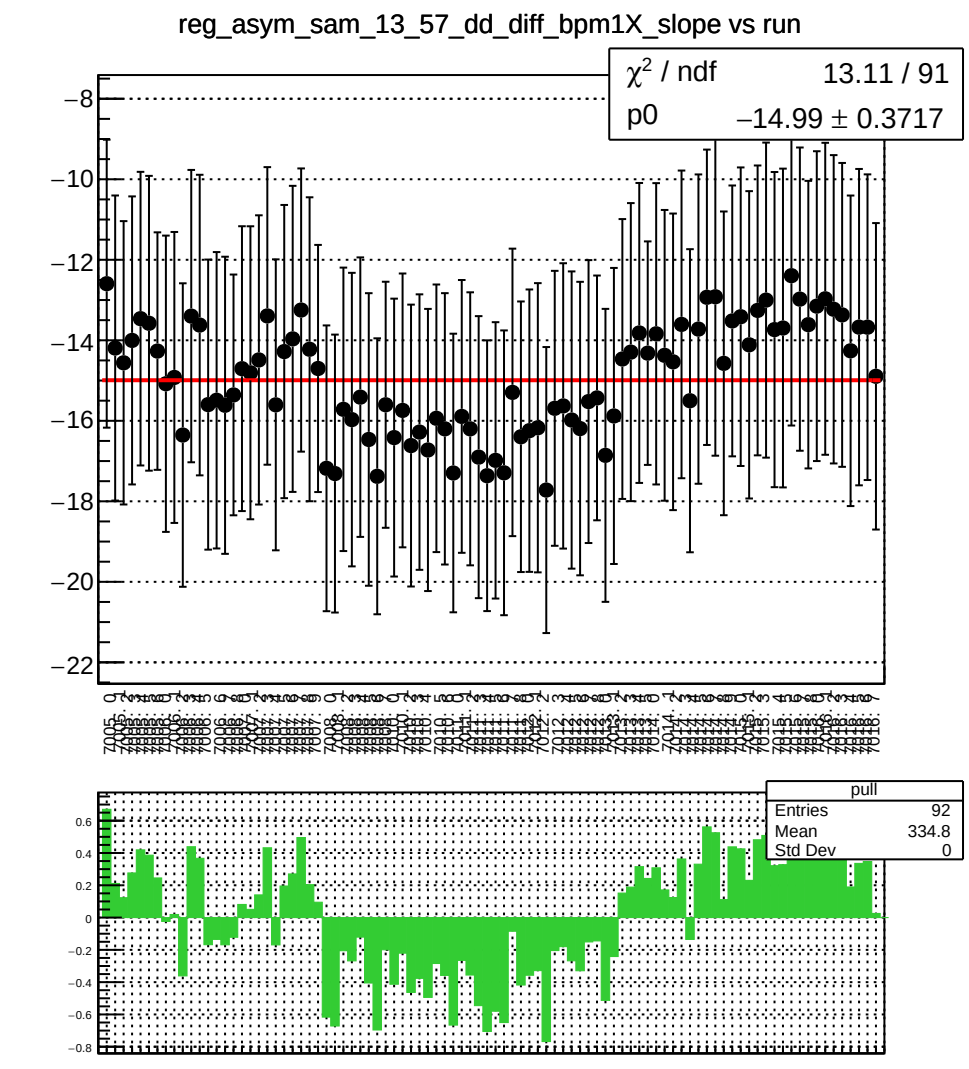

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.221 / 91
p0 23.62 ± 0.8053
pull
Entries 92
Mean −119.3
Std Dev 0
pull1D
Entries 92
Mean −0.02228
Std Dev 0.2793

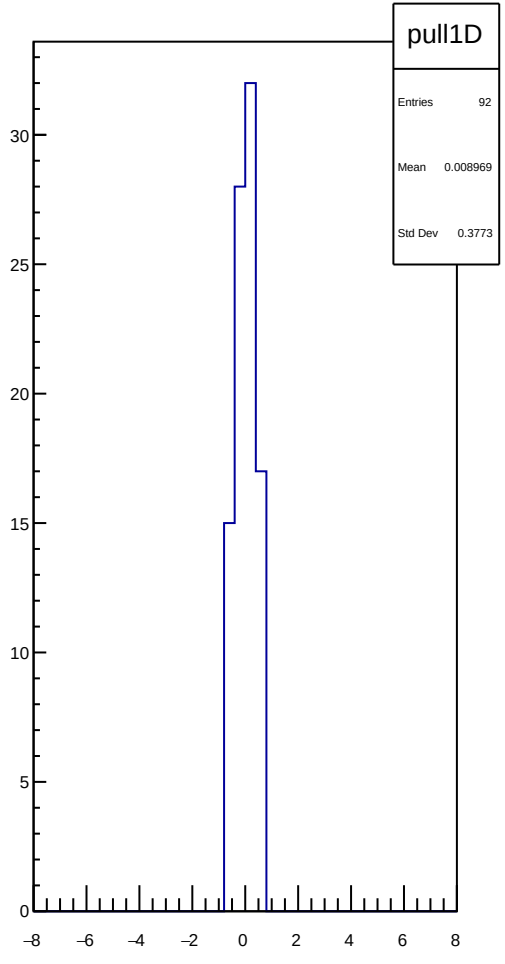

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.355 / 91
p0 −49.19 ± 1.101
pull
Entries 92
Mean 1341
Std Dev 0
pull1D
Entries 92
Mean 0.002686
Std Dev 0.2827

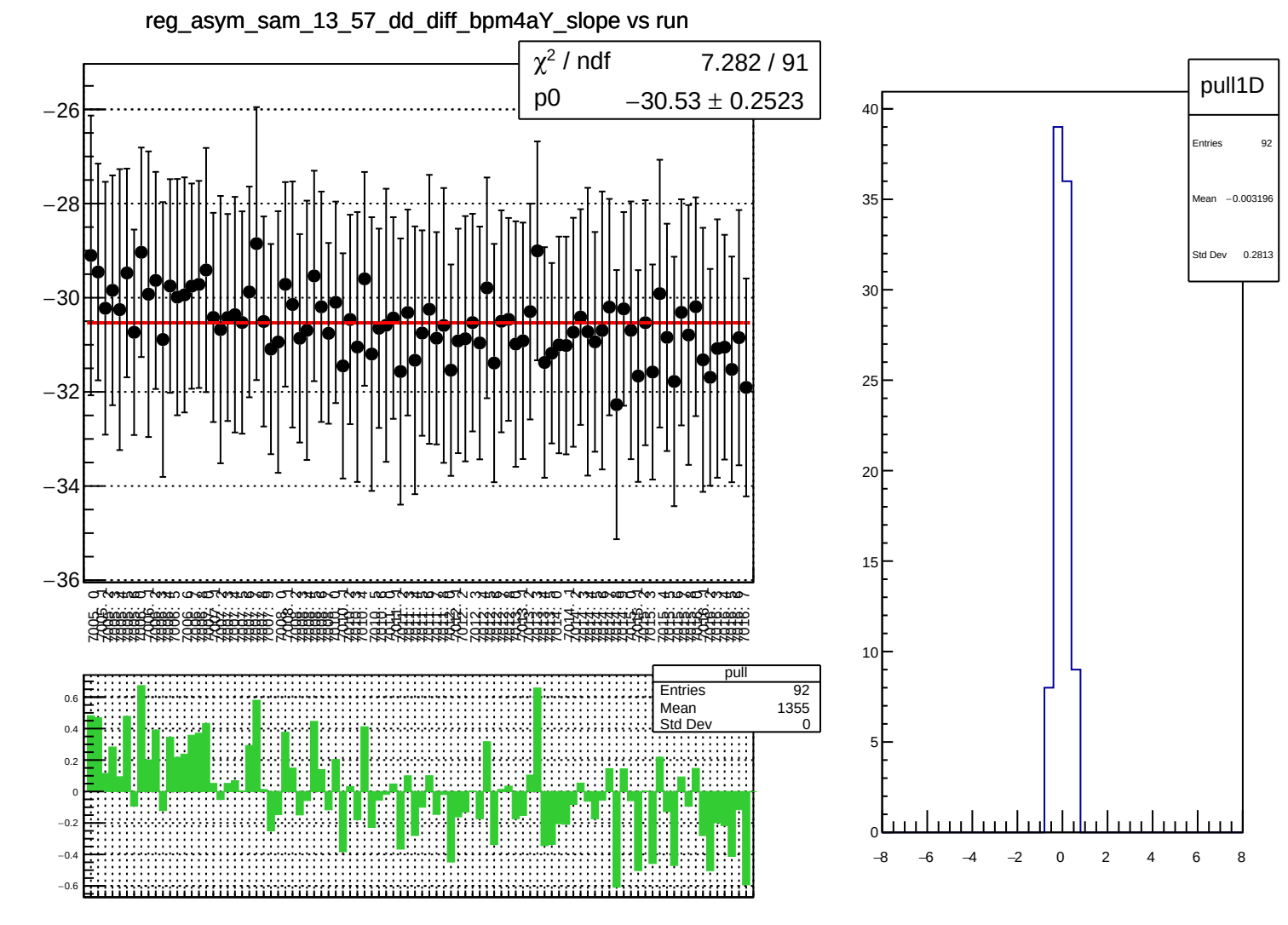

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.61 / 91
p0 91.75 ± 0.8456
110
105
100
95
90
85
80
75
pull
Entries 92
Mean −249.6
Std Dev 0
1
0.5
0
−0.5
−1

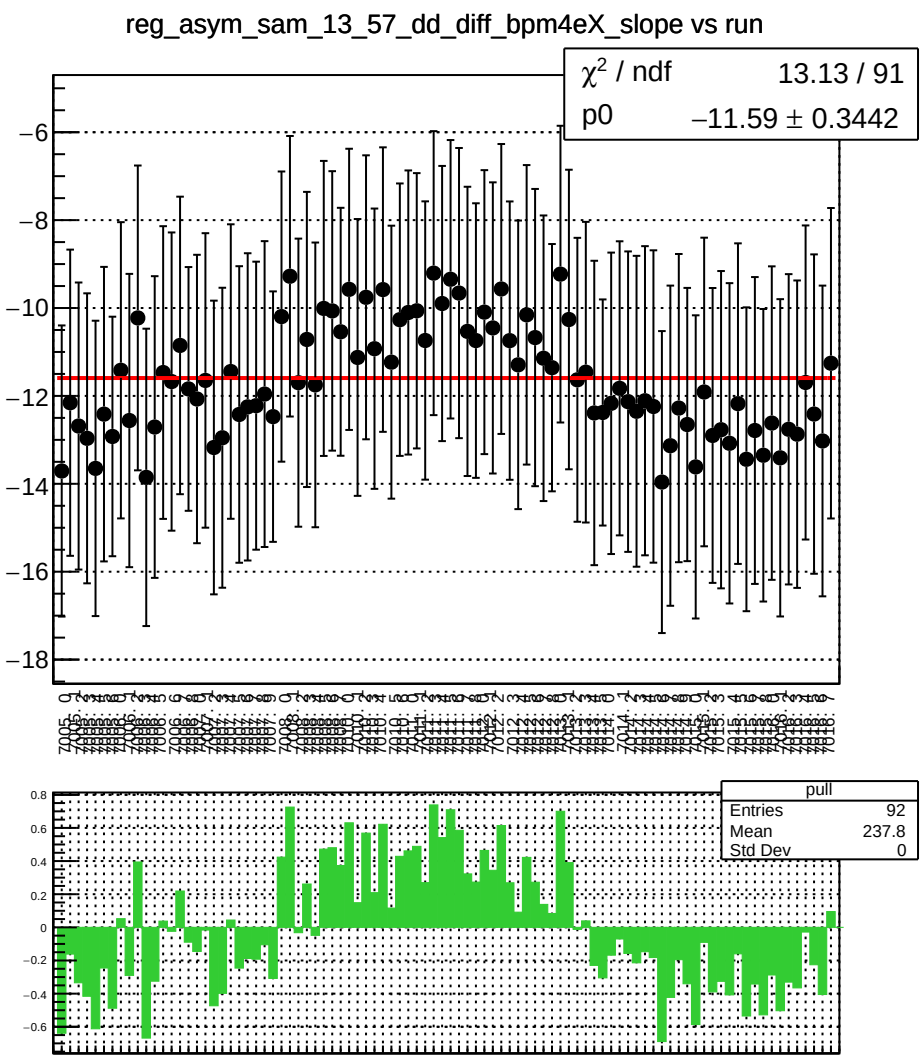

pull1D
Entries 92
Mean 0.01952
Std Dev 0.4114
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

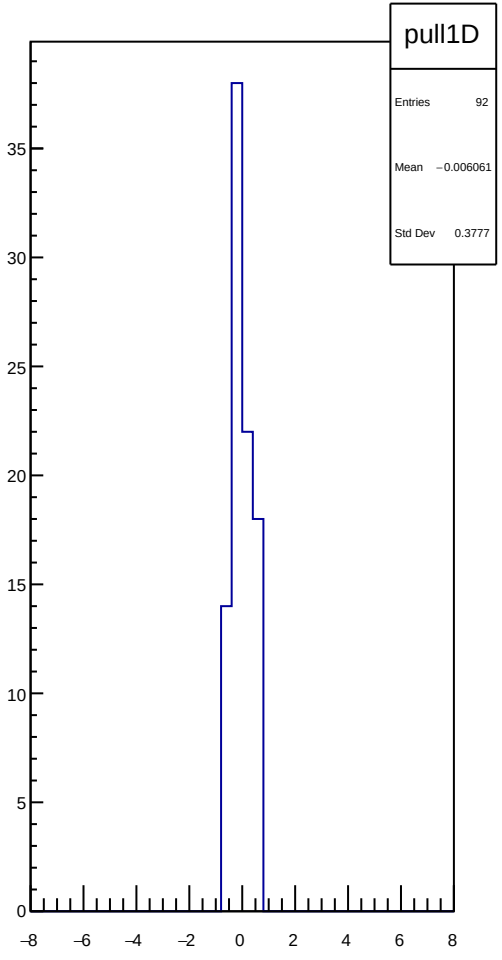

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 36.18 / 91
p0 −0.3592 ± 0.03815
pull
Entries 92
Mean 1629
Std Dev 0
pull1D
Entries 92
Mean −0.009428
Std Dev 0.627

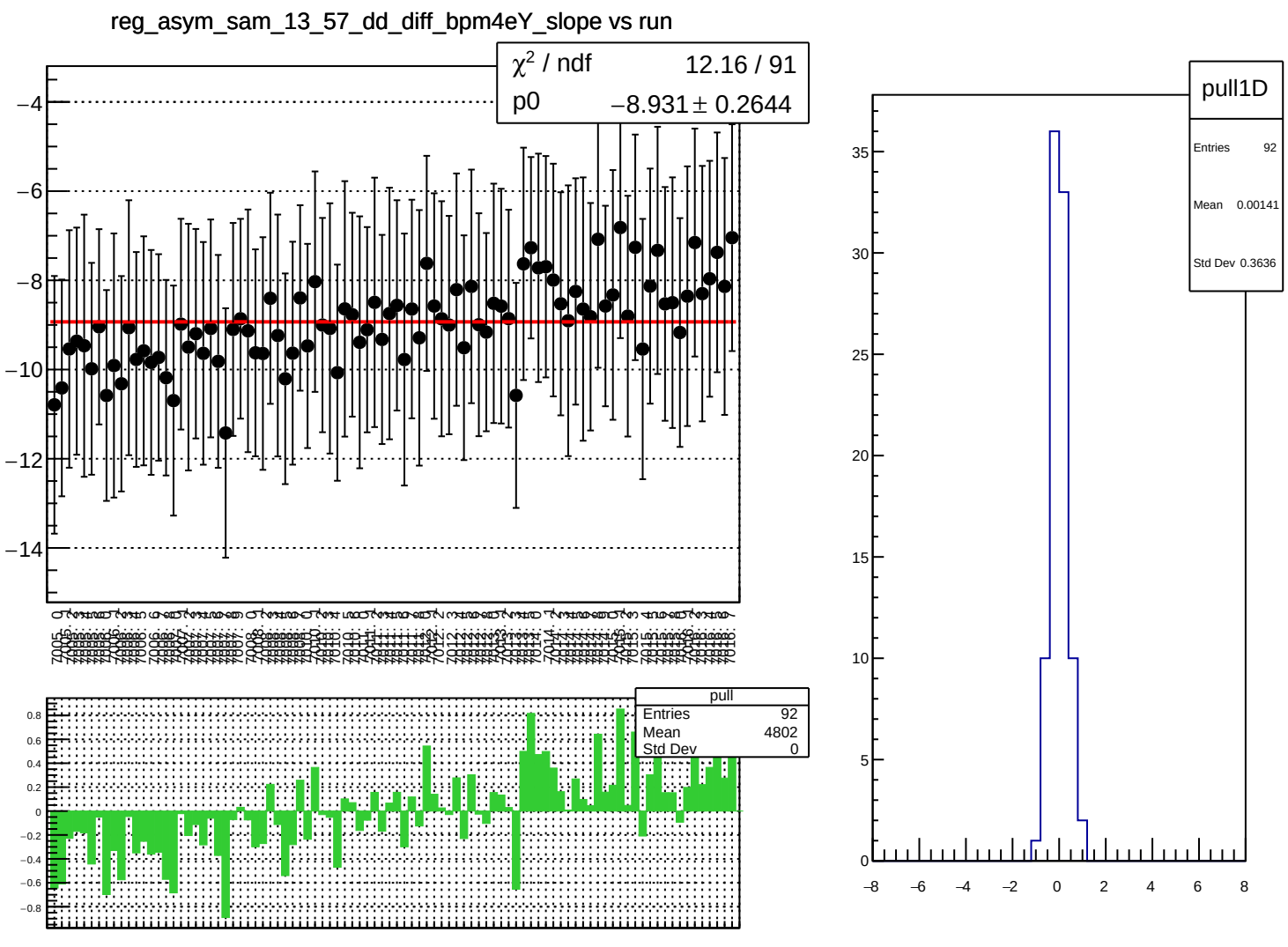

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 13.11 / 91
p0 −14.99 ± 0.3717
pull
Entries 92
Mean 334.8
Std Dev 0

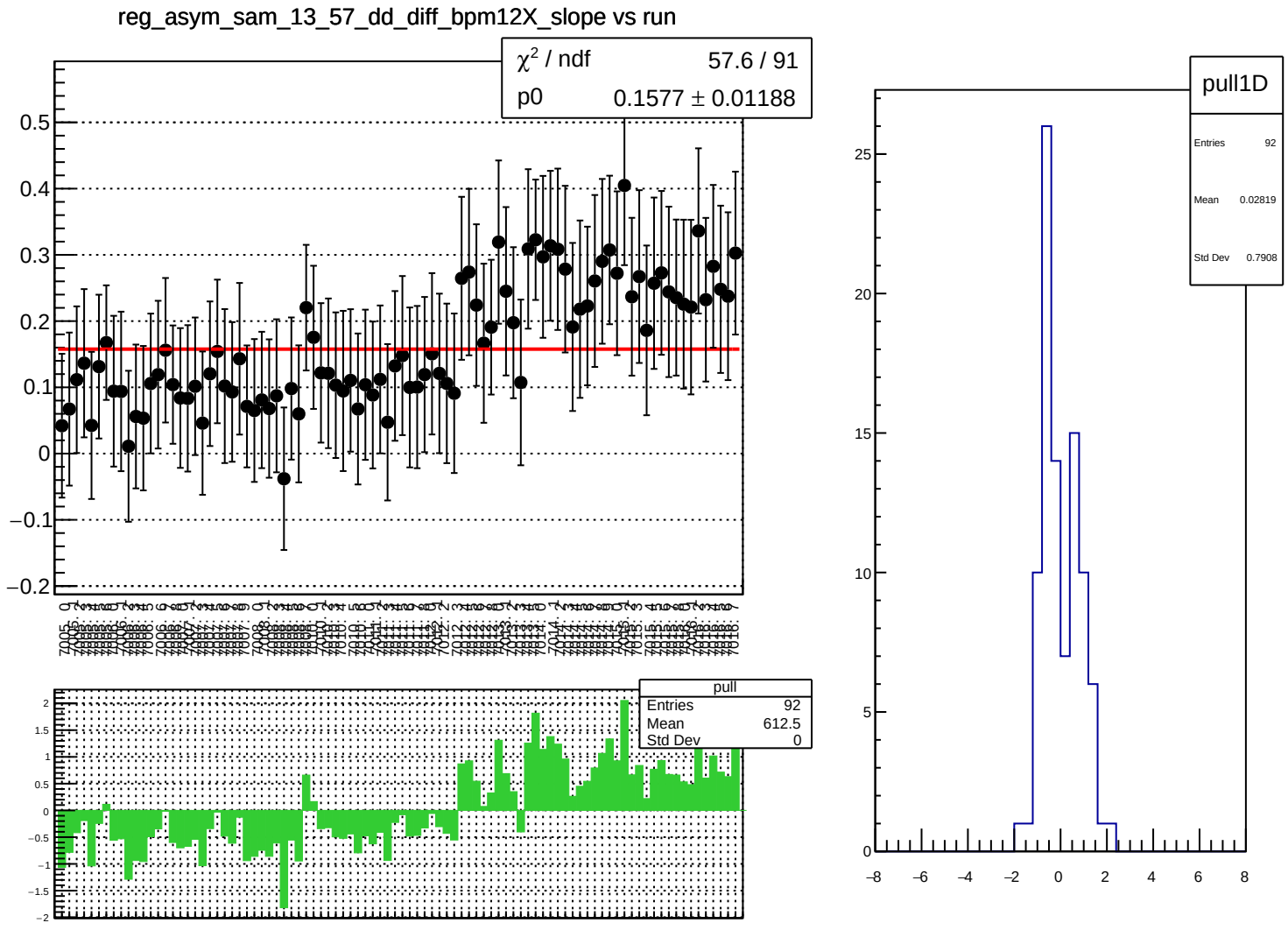

pull1D
Entries 92
Mean 0.008969
Std Dev 0.3773

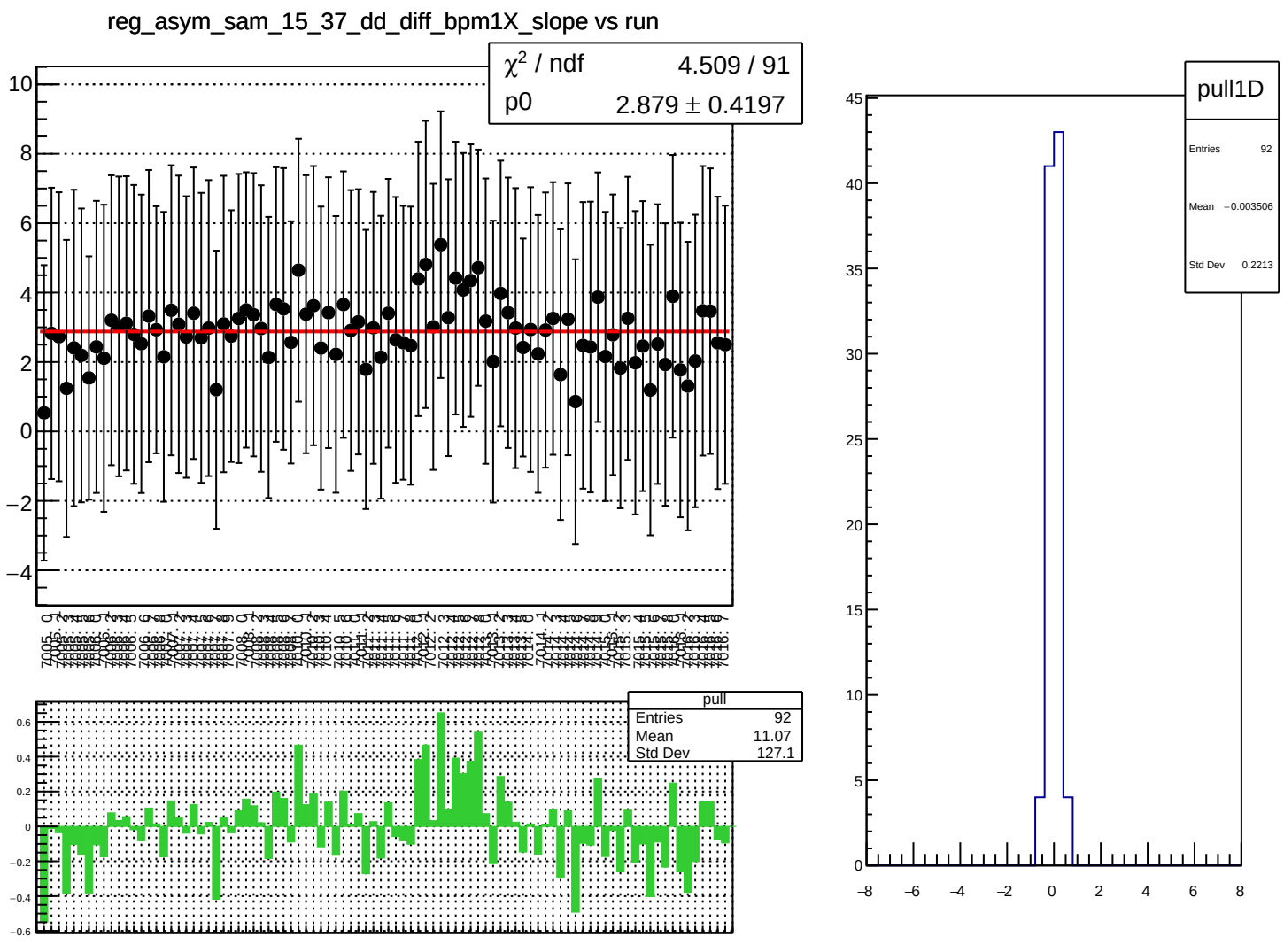

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.282 / 91
p0 −30.53 ± 0.2523
pull
Entries 92
Mean 1355
Std Dev 0
pull1D
Entries 92
Mean −0.003196
Std Dev 0.2813

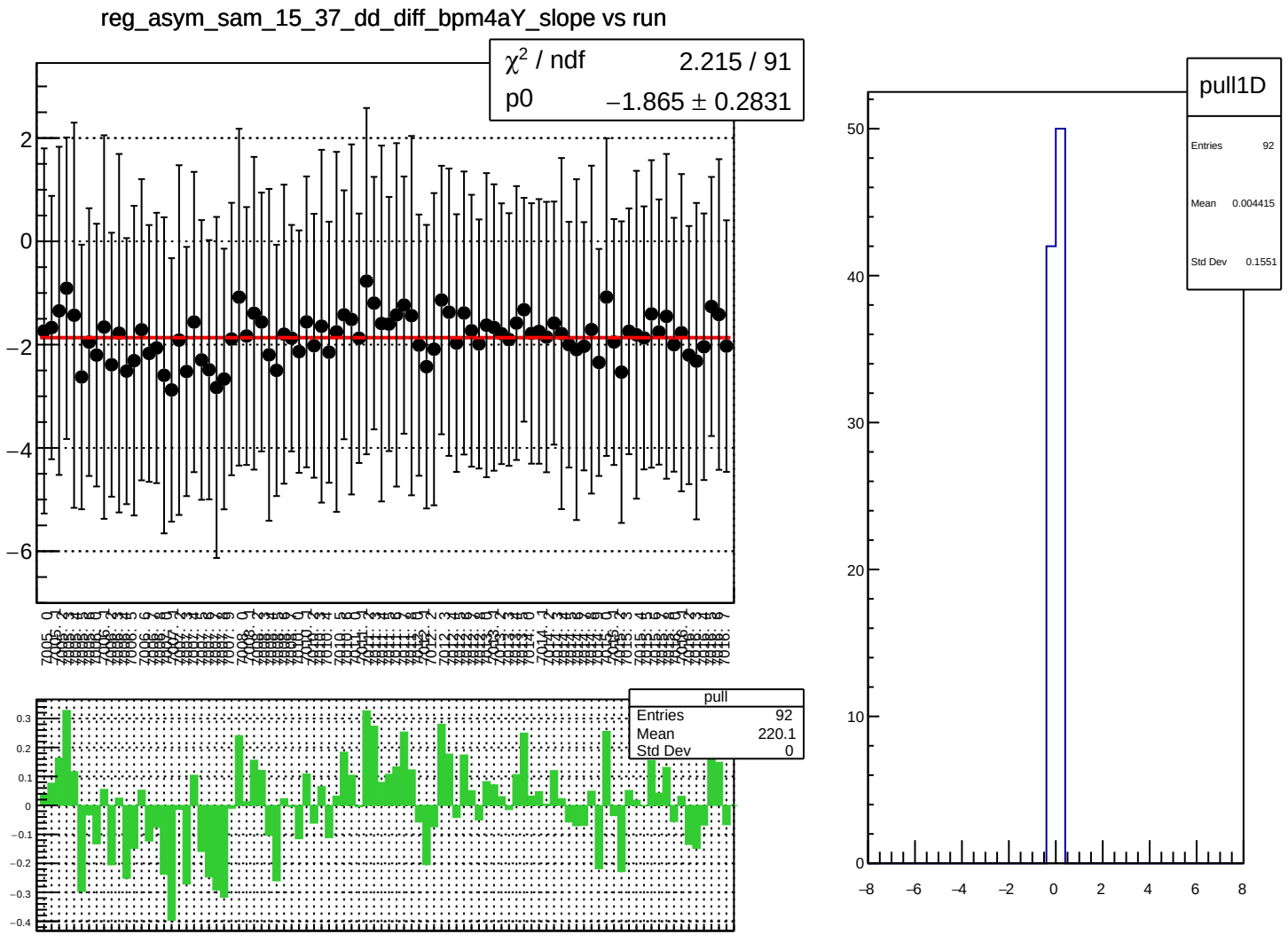

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.13 / 91
p0 −11.59 ± 0.3442
pull
Entries 92
Mean 237.8
Std Dev 0

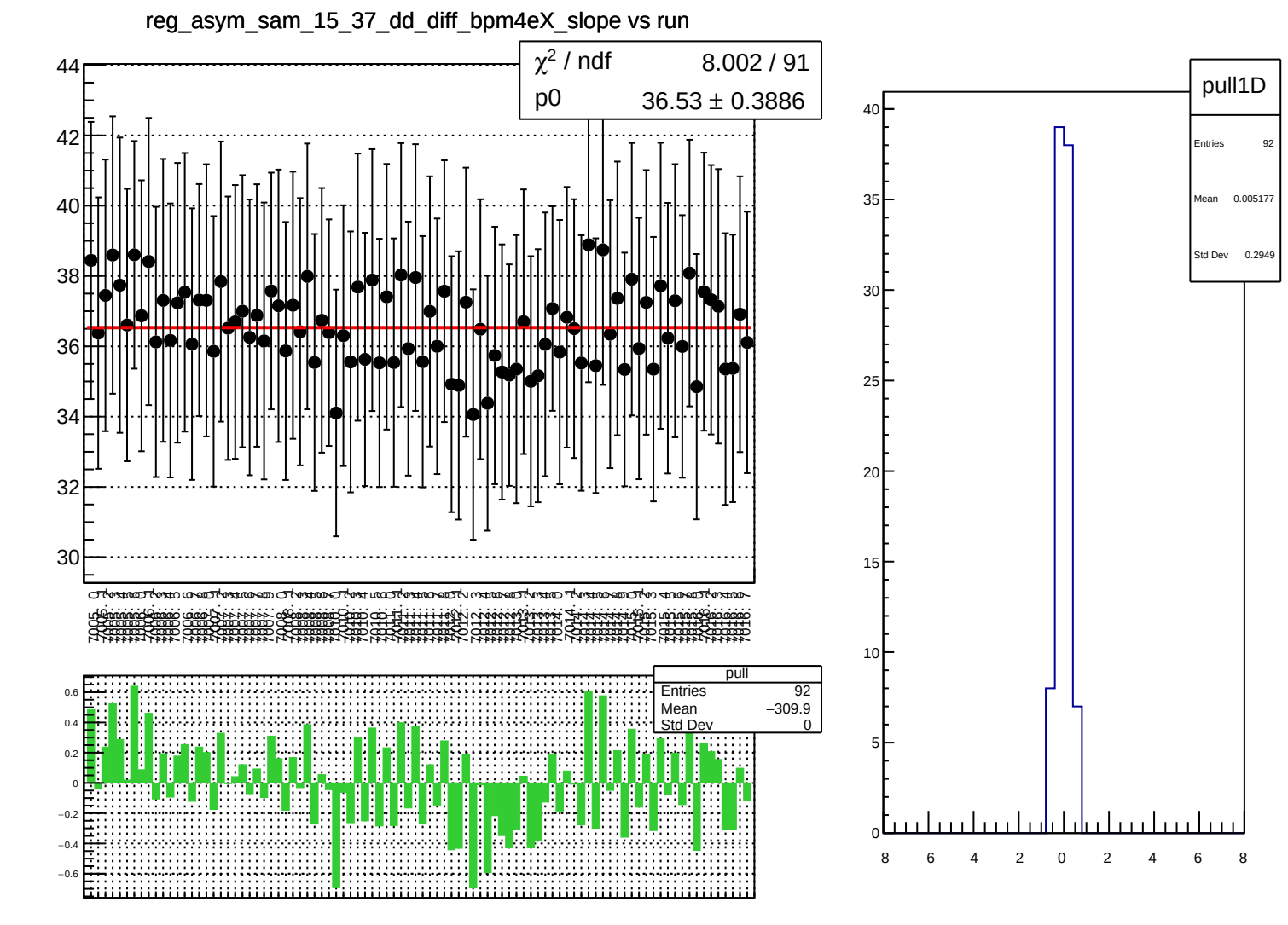

pull1D
Entries 92
Mean −0.006061
Std Dev 0.3777

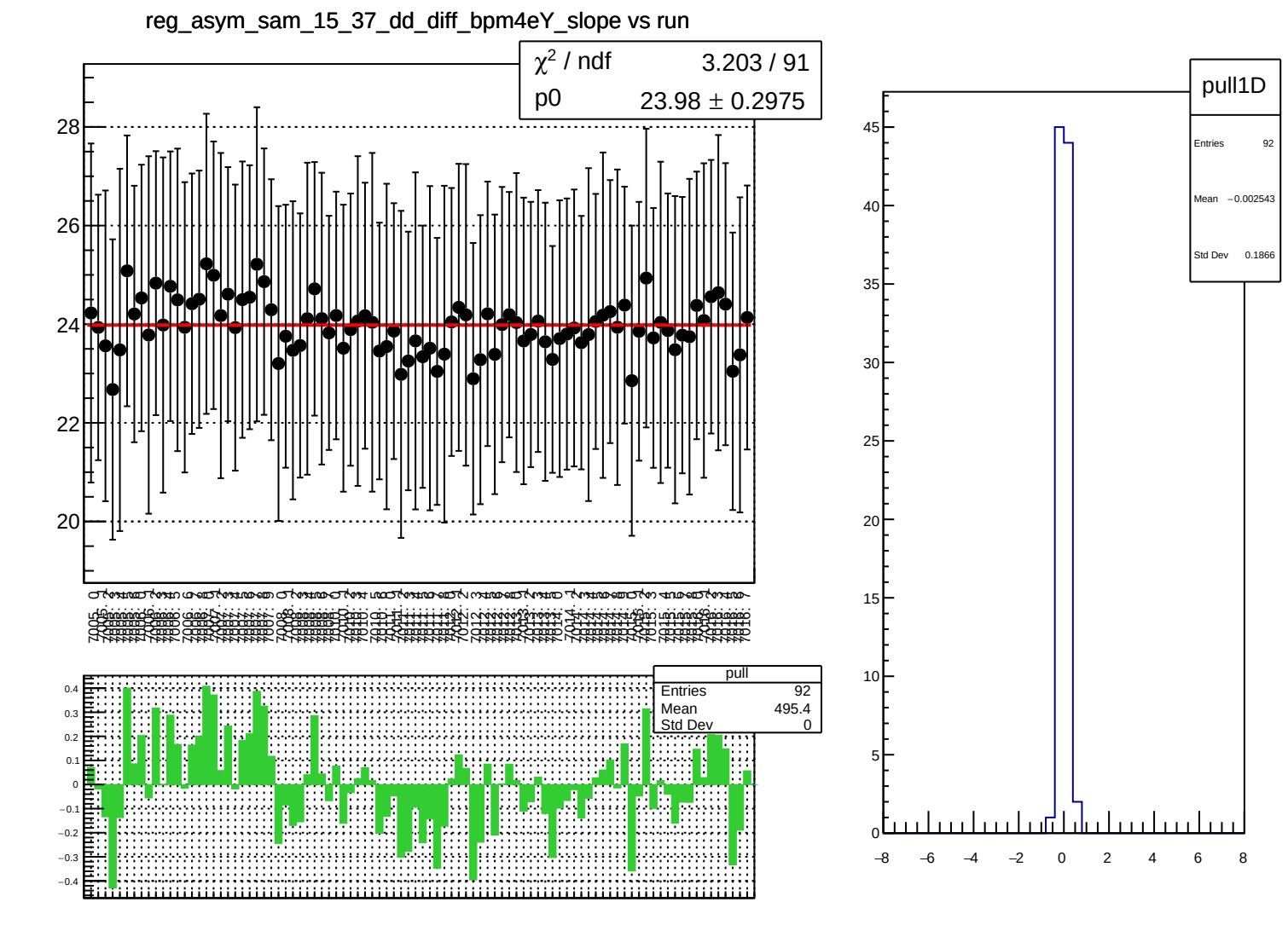

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.16 / 91
p0 −8.931 ± 0.2644
−4
−6
−8
−10
−12
−14
pull
Entries 92
Mean 4802
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean 0.00141
Std Dev 0.3636
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

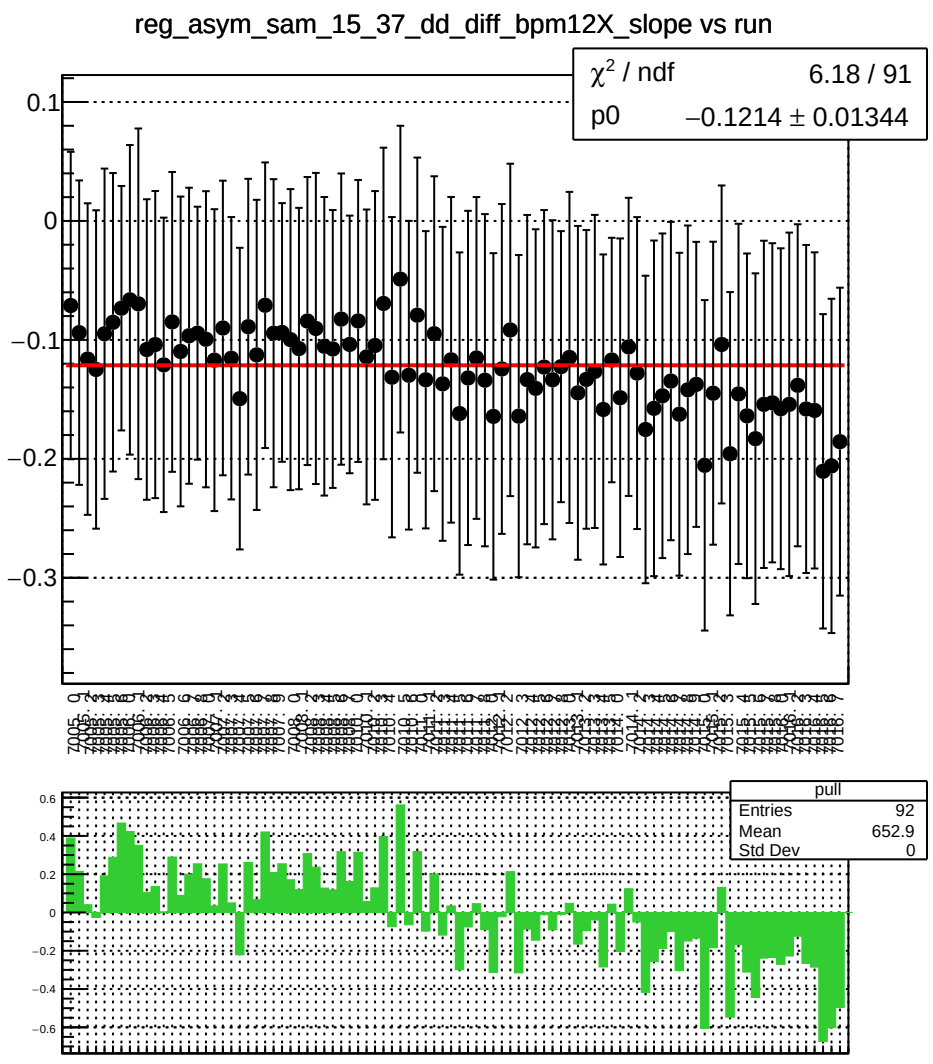

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 57.6 / 91
p0 0.1577 ± 0.01188
pull
Entries 92
Mean 612.5
Std Dev 0
pull1D
Entries 92
Mean 0.02819
Std Dev 0.7908

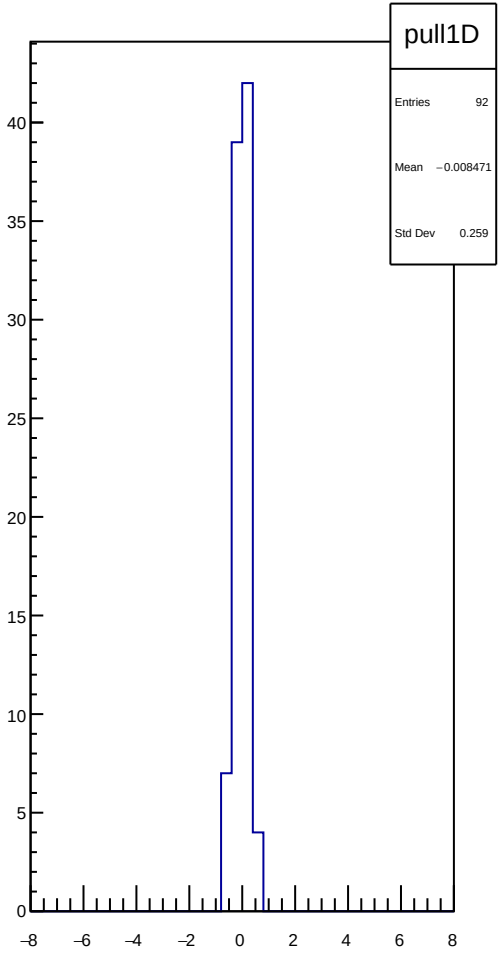

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.509 / 91
p0 2.879 ± 0.4197
pull
Entries 92
Mean 11.07
Std Dev 127.1
pull1D
Entries 92
Mean −0.003506
Std Dev 0.2213

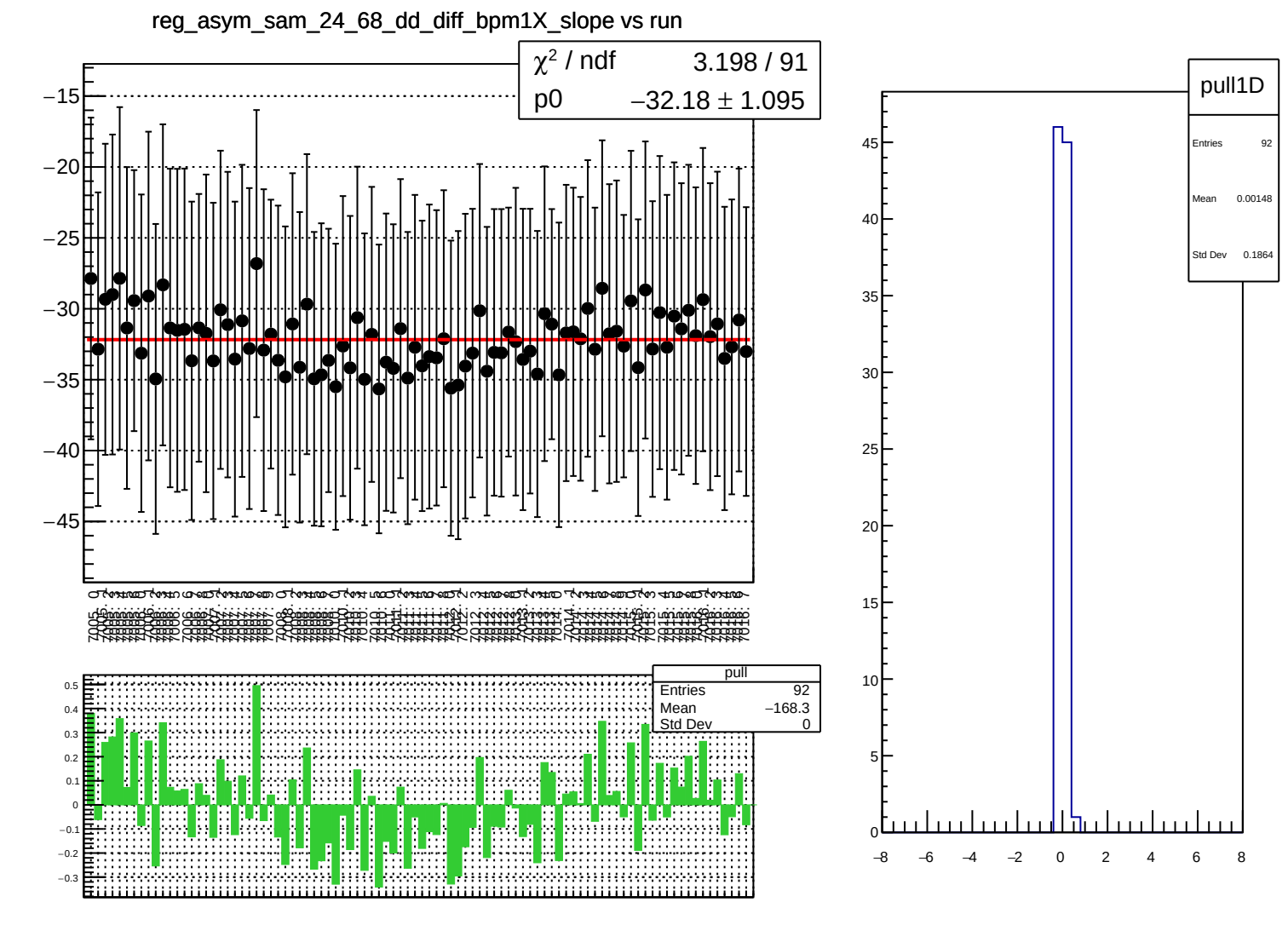

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.215 / 91
p0 −1.865 ± 0.2831
pull
Entries 92
Mean 220.1
Std Dev 0
pull1D
Entries 92
Mean 0.004415
Std Dev 0.1551

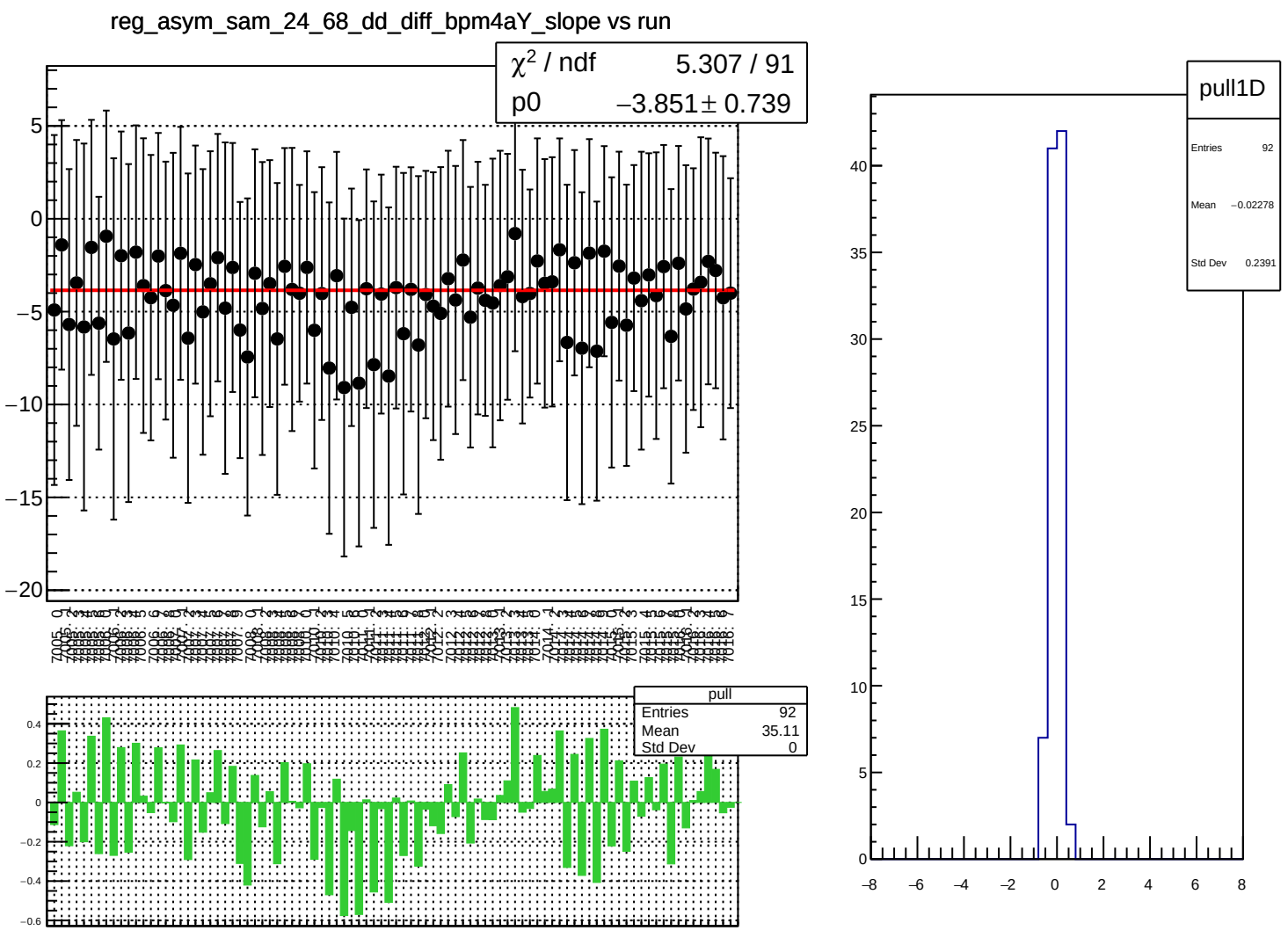

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.002 / 91
p0 36.53 ± 0.3886
pull
Entries 92
Mean −309.9
Std Dev 0
pull1D
Entries 92
Mean 0.005177
Std Dev 0.2949

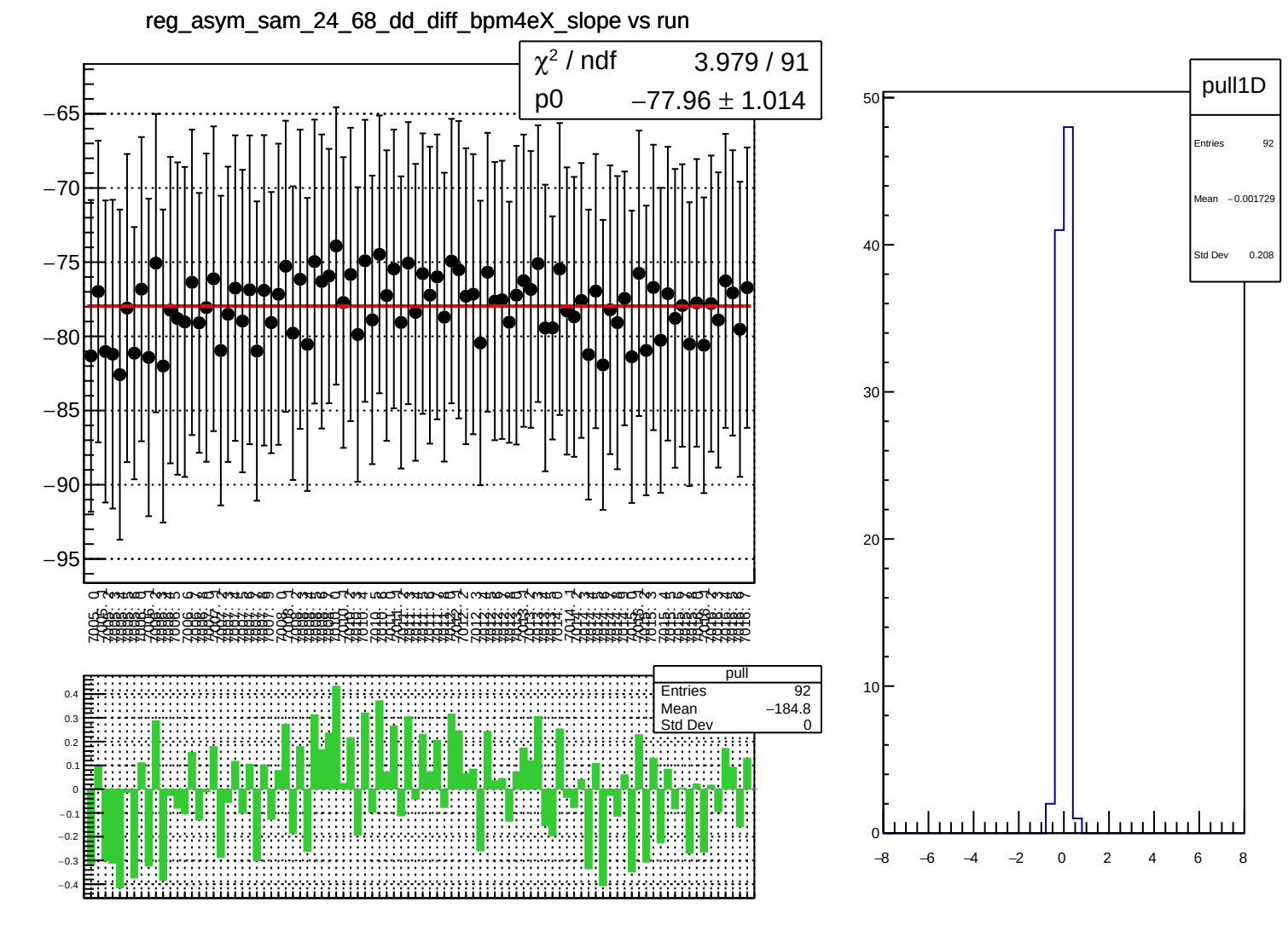

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.203 / 91
p0 23.98 ± 0.2975
pull
Entries 92
Mean 495.4
Std Dev 0
pull1D
Entries 92
Mean −0.002543
Std Dev 0.1866

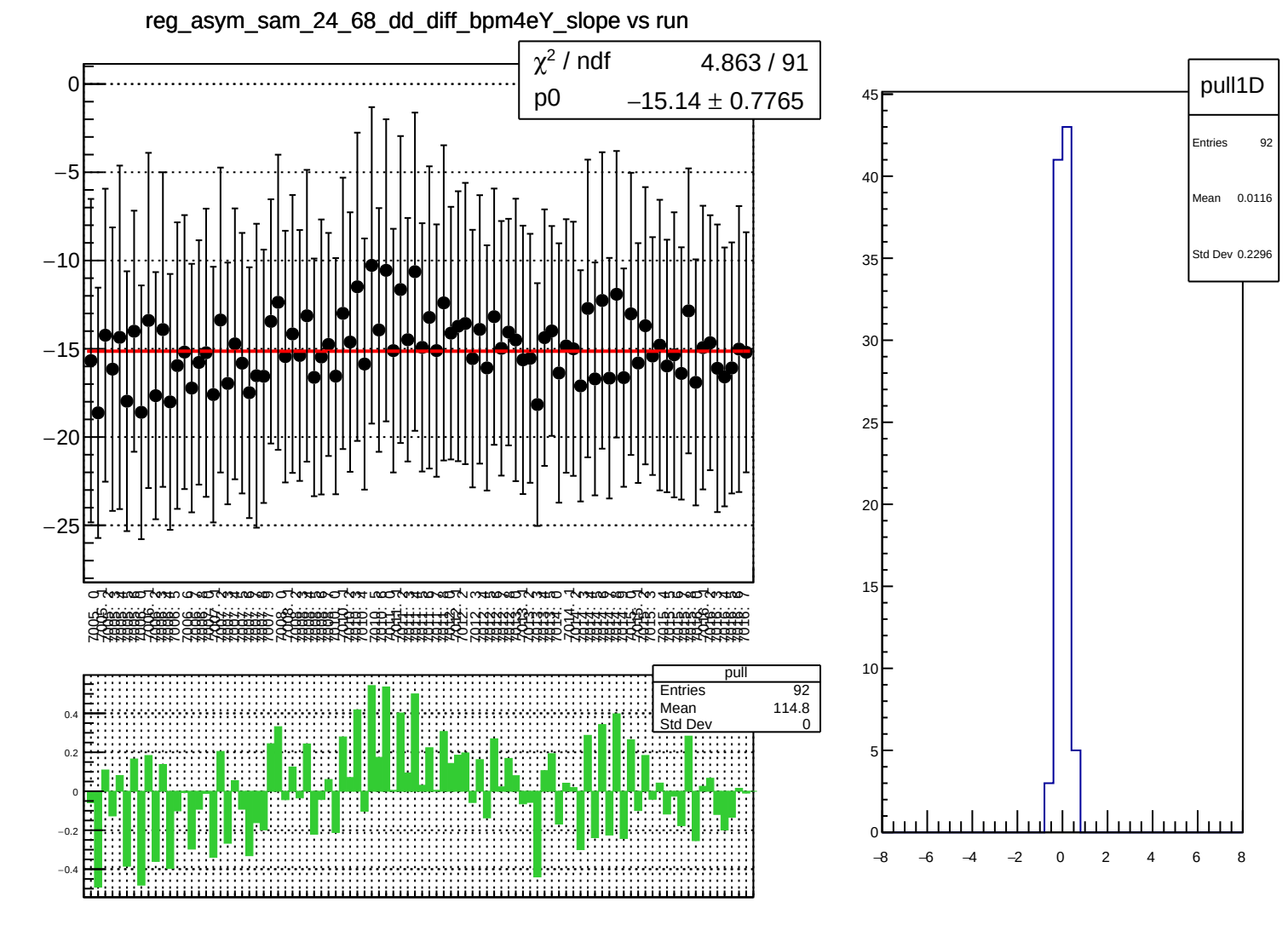

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.18 / 91
p0 −0.1214 ± 0.01344
pull
Entries 92
Mean 652.9
Std Dev 0

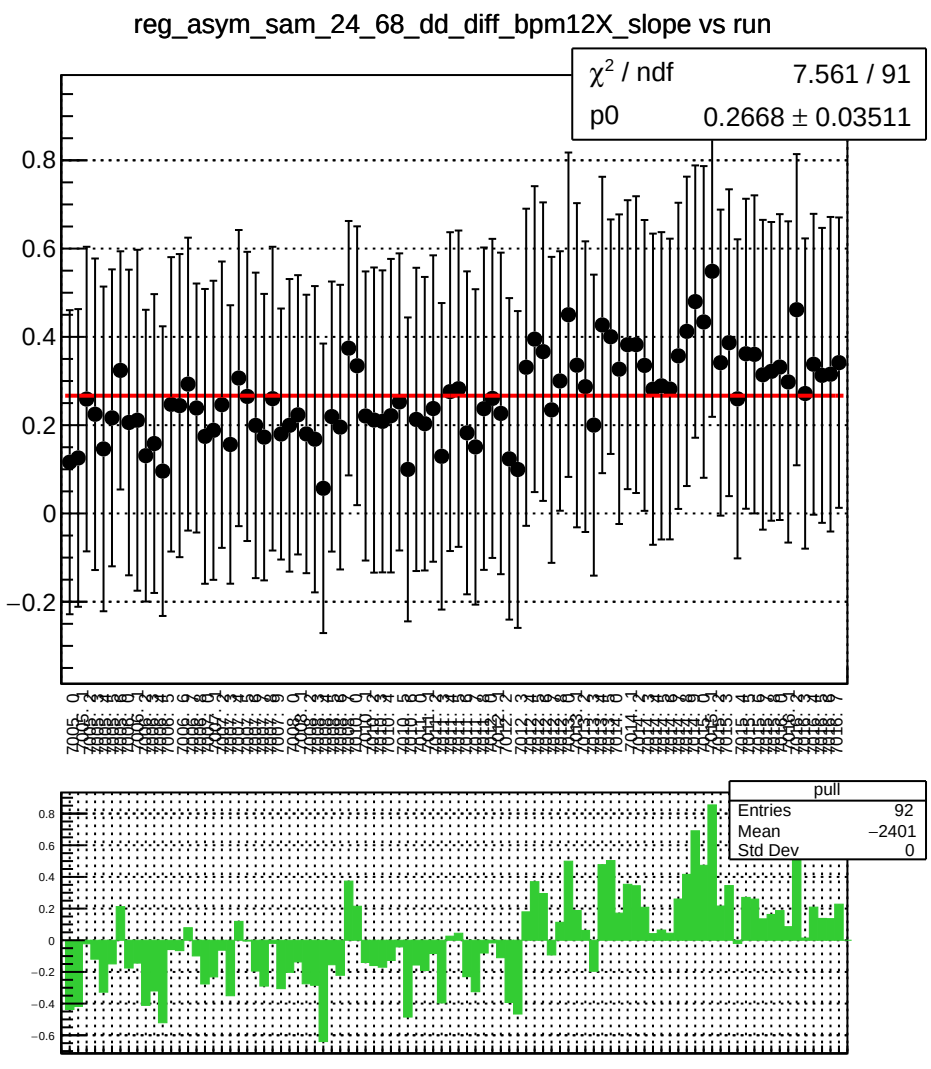

pull1D
Entries 92
Mean −0.008471
Std Dev 0.259

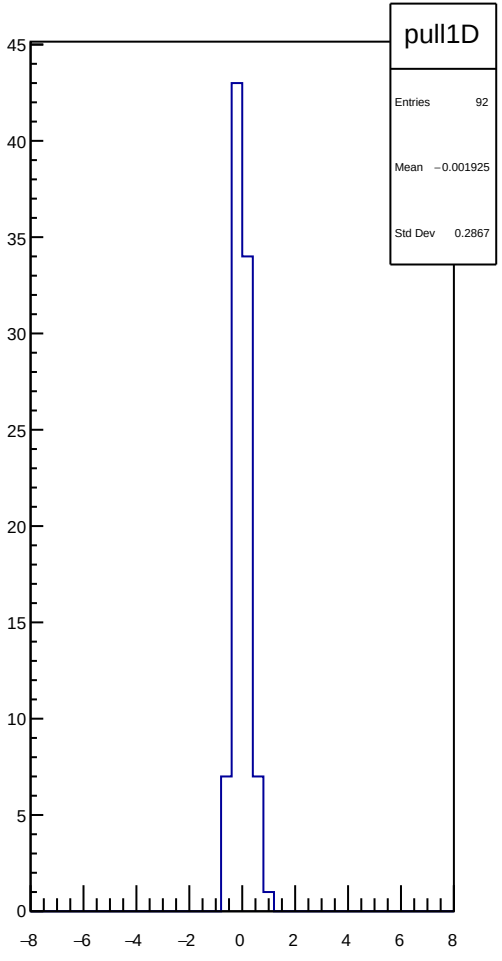

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 3.198 / 91
p0 −32.18 ± 1.095
pull
Entries 92
Mean −168.3
Std Dev 0
pull1D
Entries 92
Mean 0.00148
Std Dev 0.1864

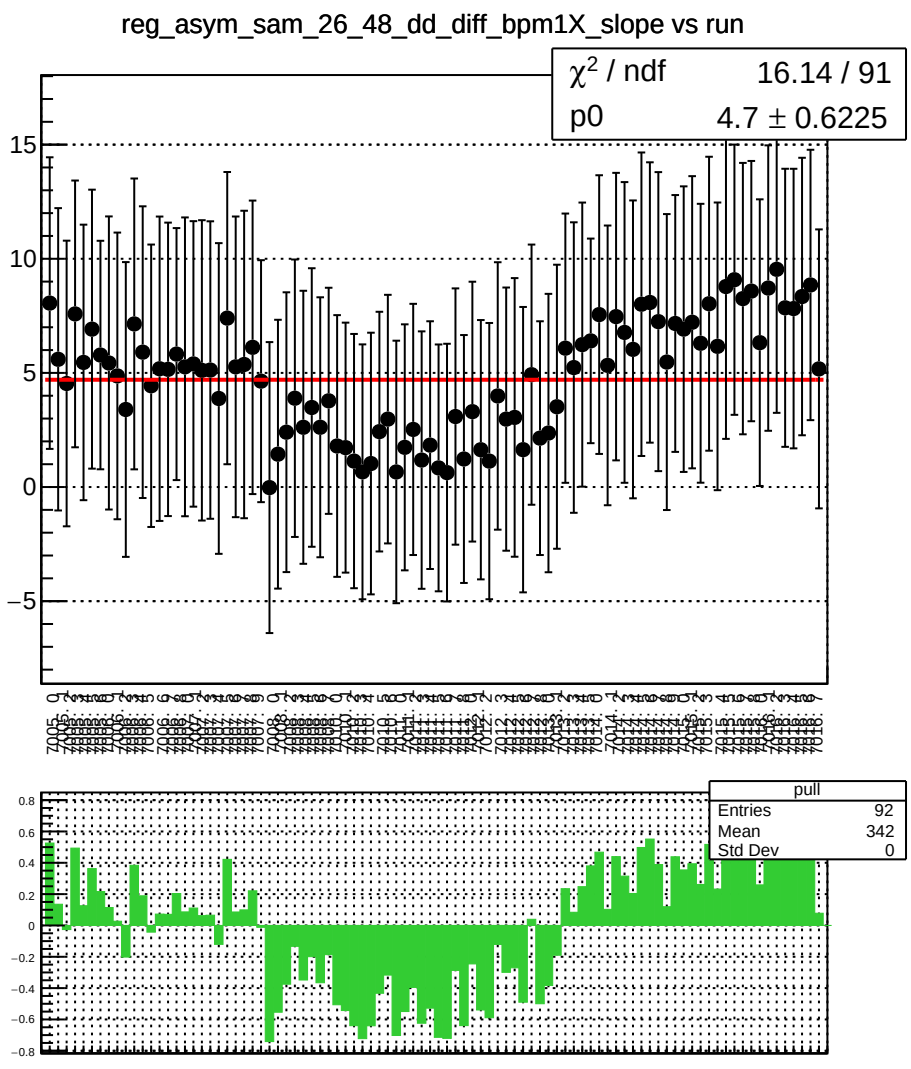

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.307 / 91
p0 −3.851 ± 0.739
pull
Entries 92
Mean 35.11
Std Dev 0
pull1D
Entries 92
Mean −0.02278
Std Dev 0.2391

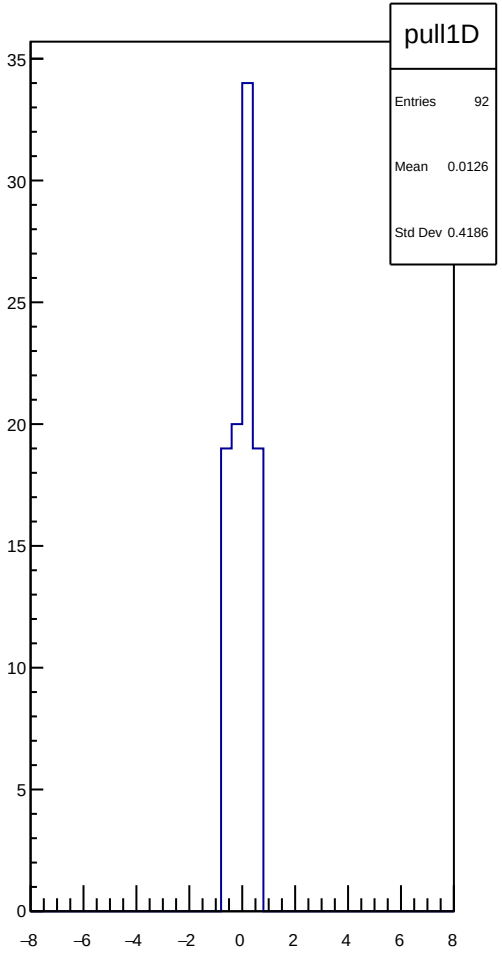

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.979 / 91
p0 −77.96 ± 1.014
−65
−70
−75
−80
−85
−90
−95
pull
Entries 92
Mean −184.8
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 92
Mean −0.001729
Std Dev 0.208
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

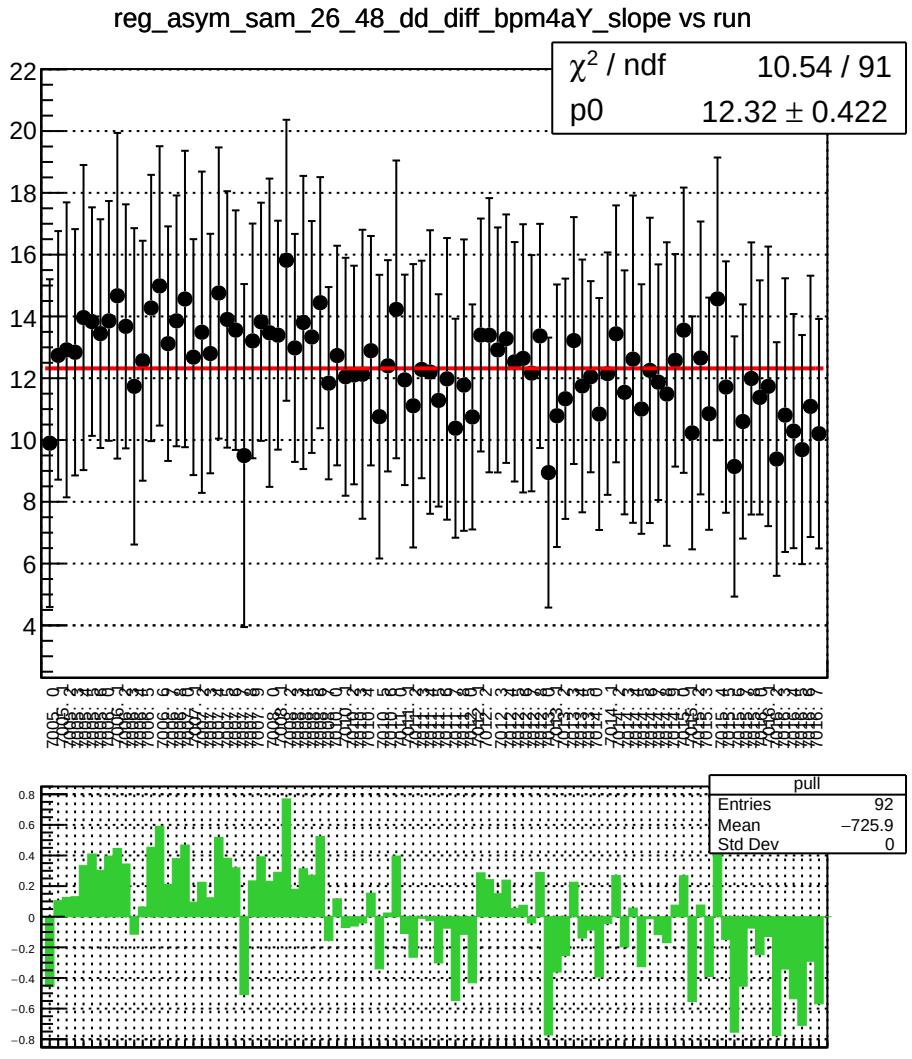

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.863 / 91
p0 −15.14 ± 0.7765
pull
Entries 92
Mean 114.8
Std Dev 0
pull1D
Entries 92
Mean 0.0116
Std Dev 0.2296

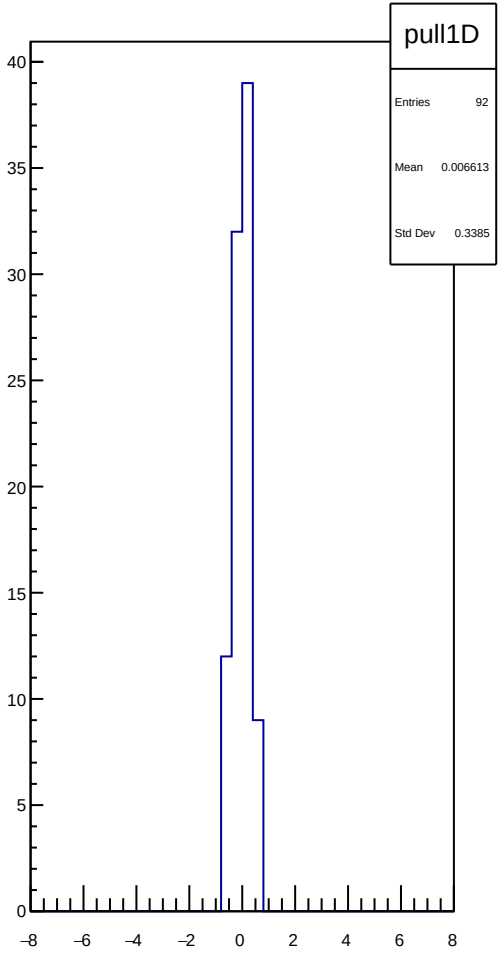

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 7.561 / 91
p0 0.2668 ± 0.03511
pull
Entries 92
Mean −2401
Std Dev 0

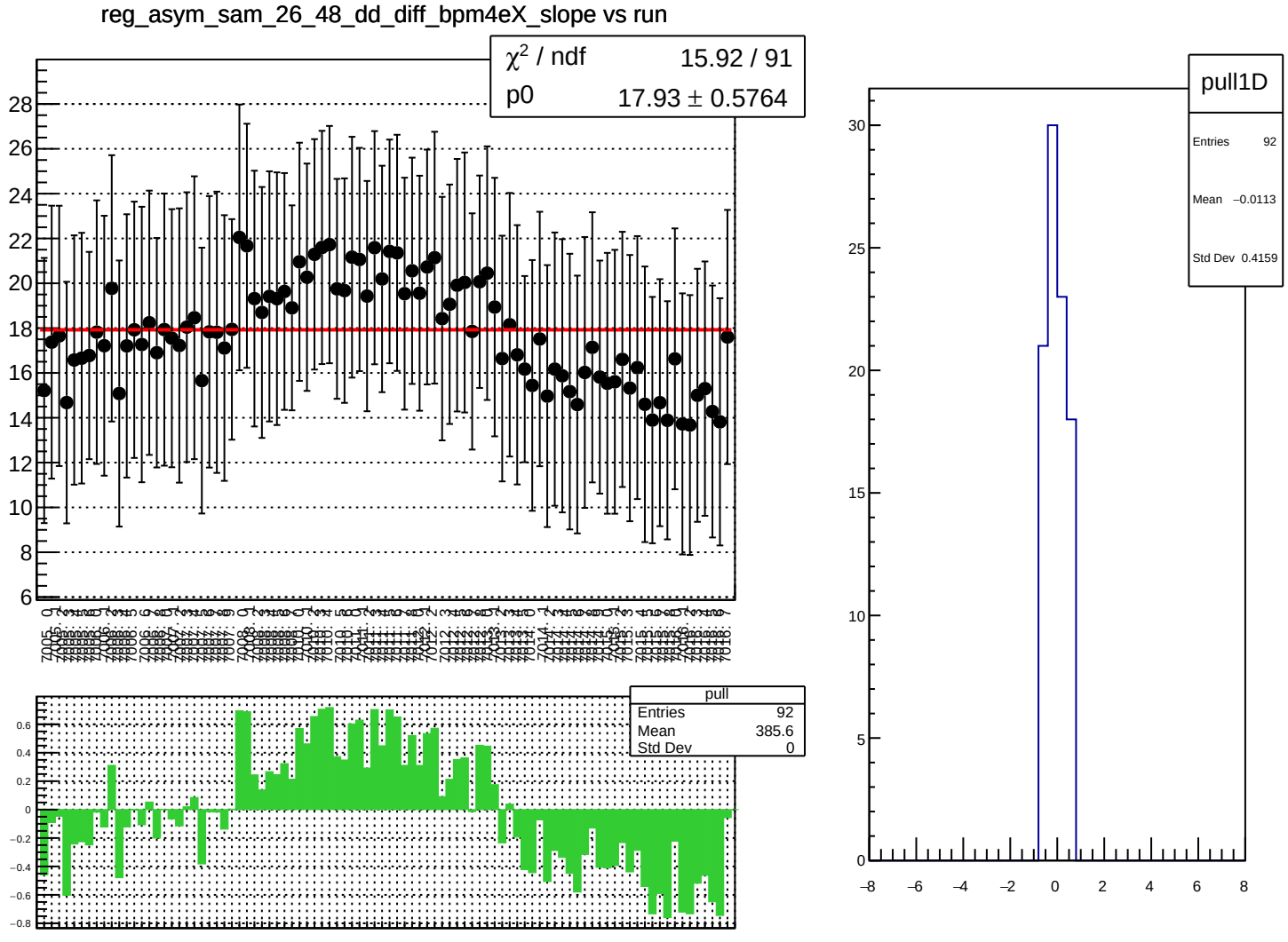

pull1D
Entries 92
Mean −0.001925
Std Dev 0.2867

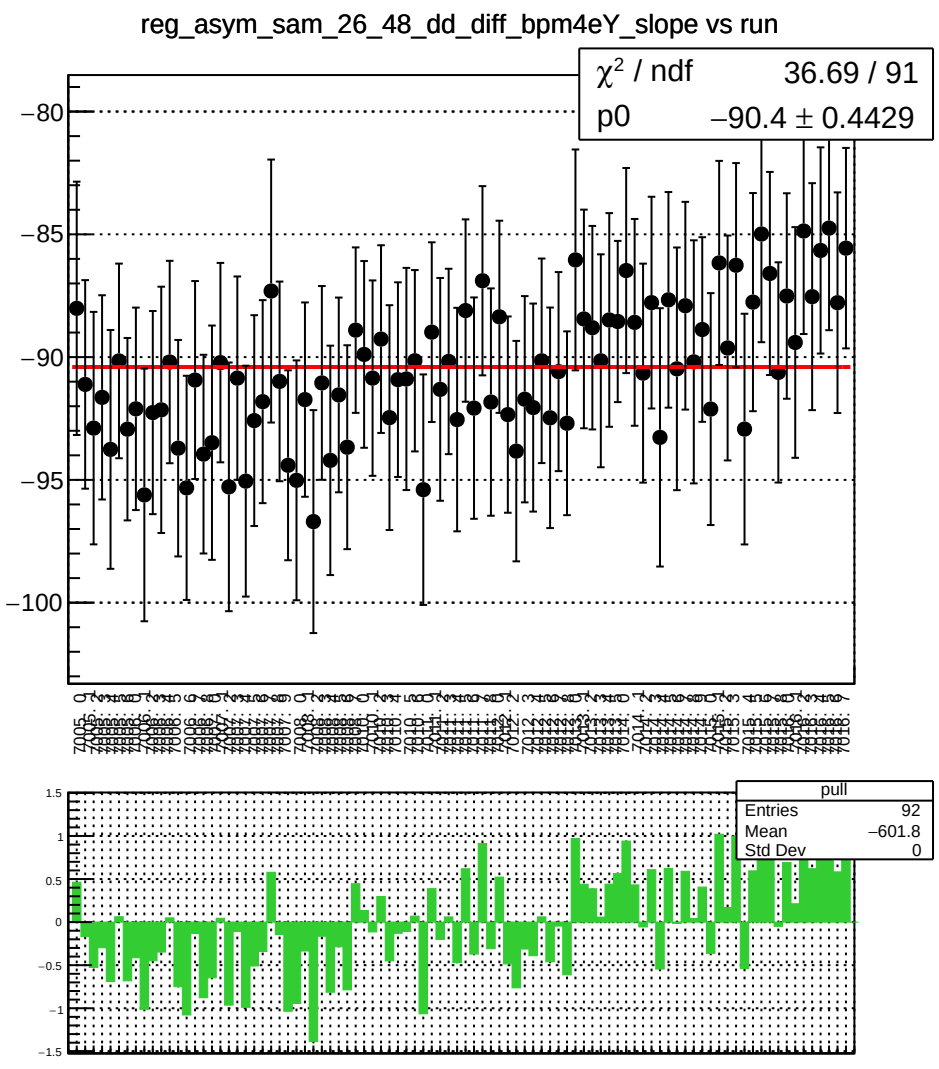

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 16.14 / 91
p0 4.7 ± 0.6225
pull
Entries 92
Mean 342
Std Dev 0

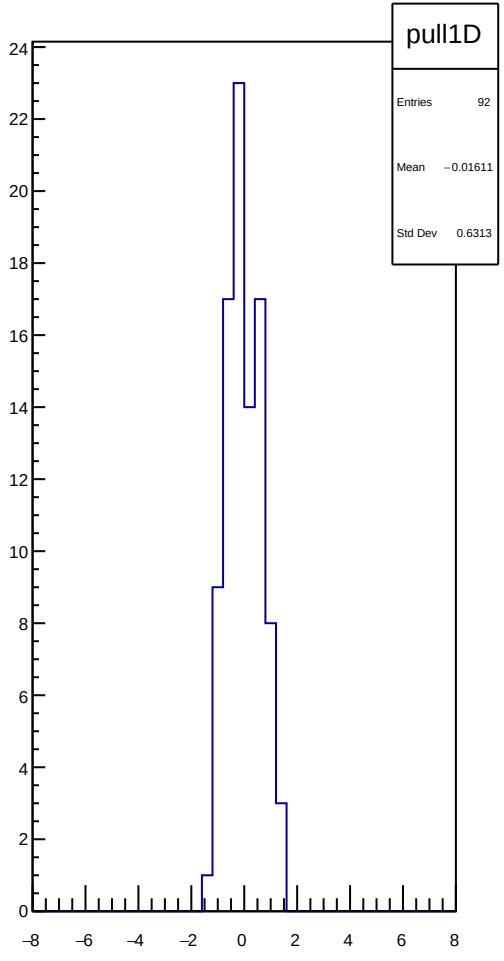

pull1D
Entries 92
Mean 0.0126
Std Dev 0.4186

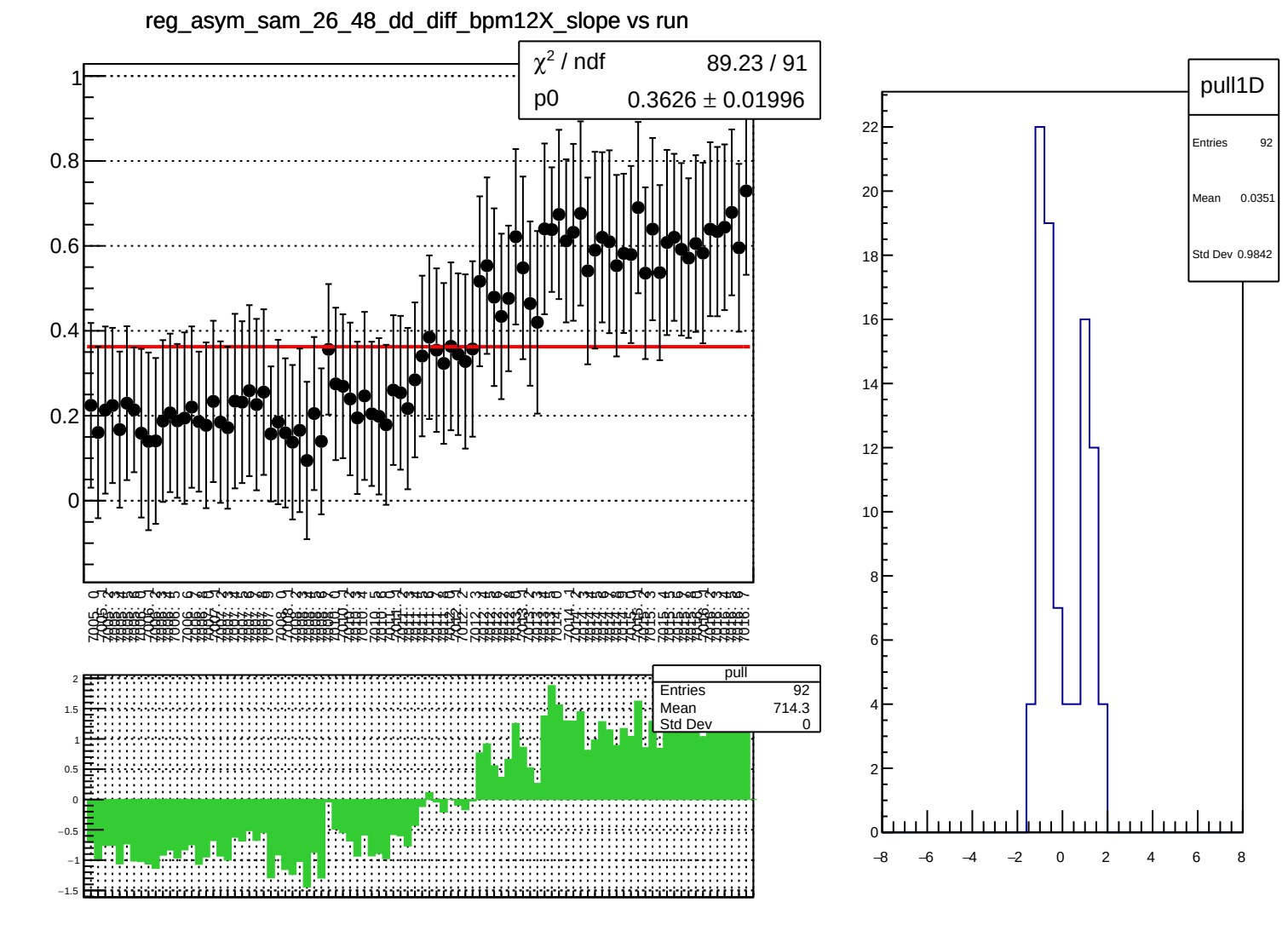

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.54 / 91
p0 12.32 ± 0.422
pull
Entries 92
Mean −725.9
Std Dev 0

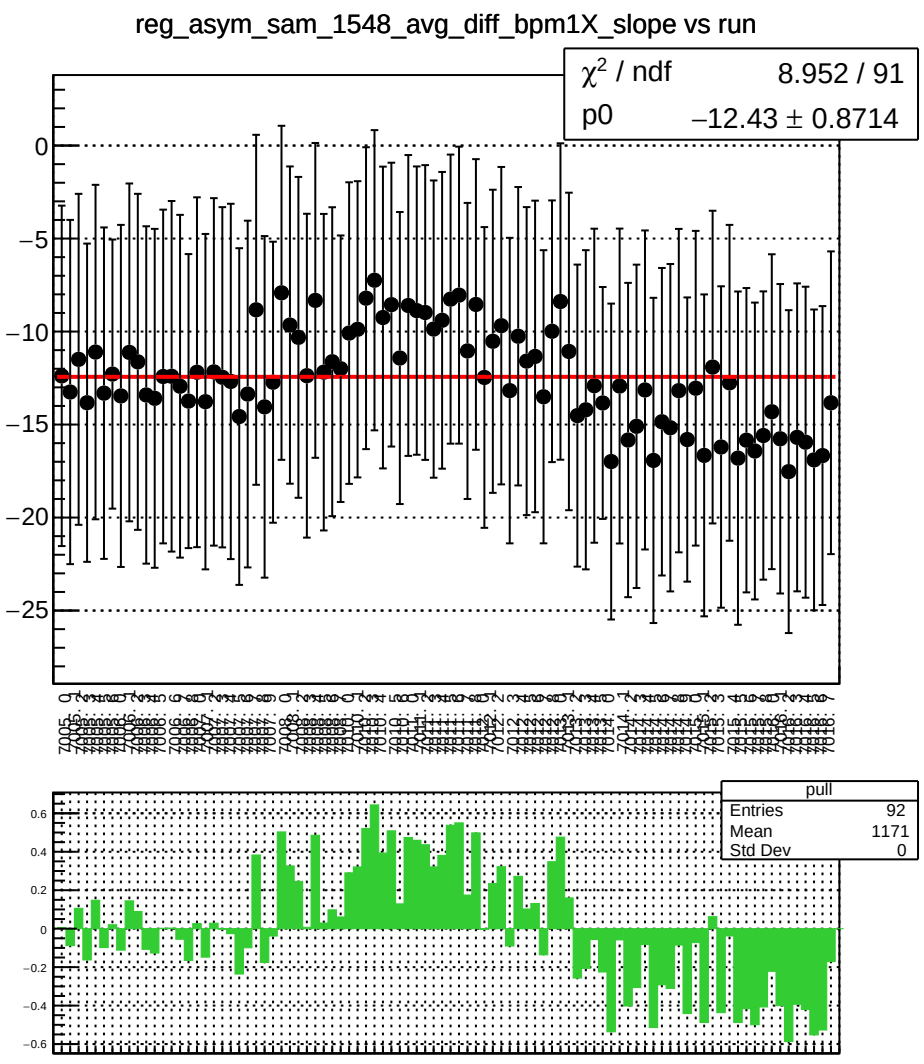

pull1D
Entries 92
Mean 0.006613
Std Dev 0.3385

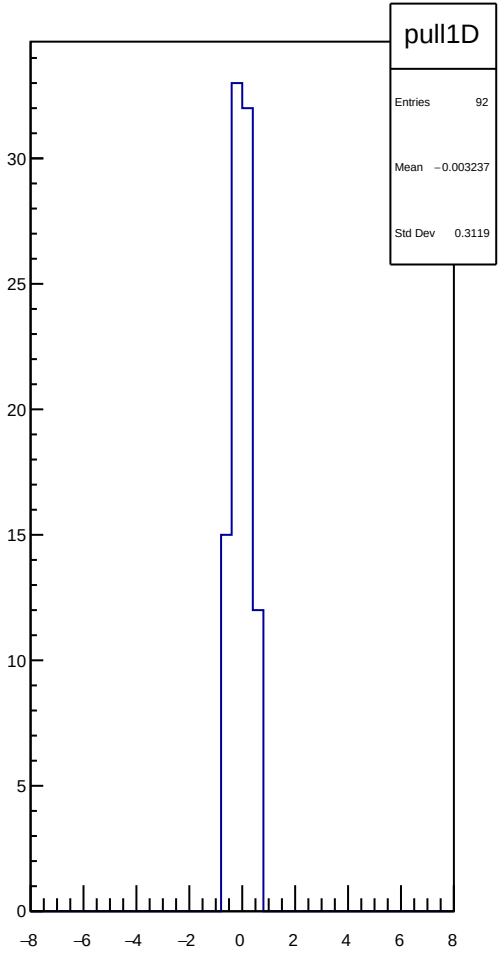

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.92 / 91
p0 17.93 ± 0.5764
pull
Entries 92
Mean 385.6
Std Dev 0
pull1D
Entries 92
Mean −0.0113
Std Dev 0.4159

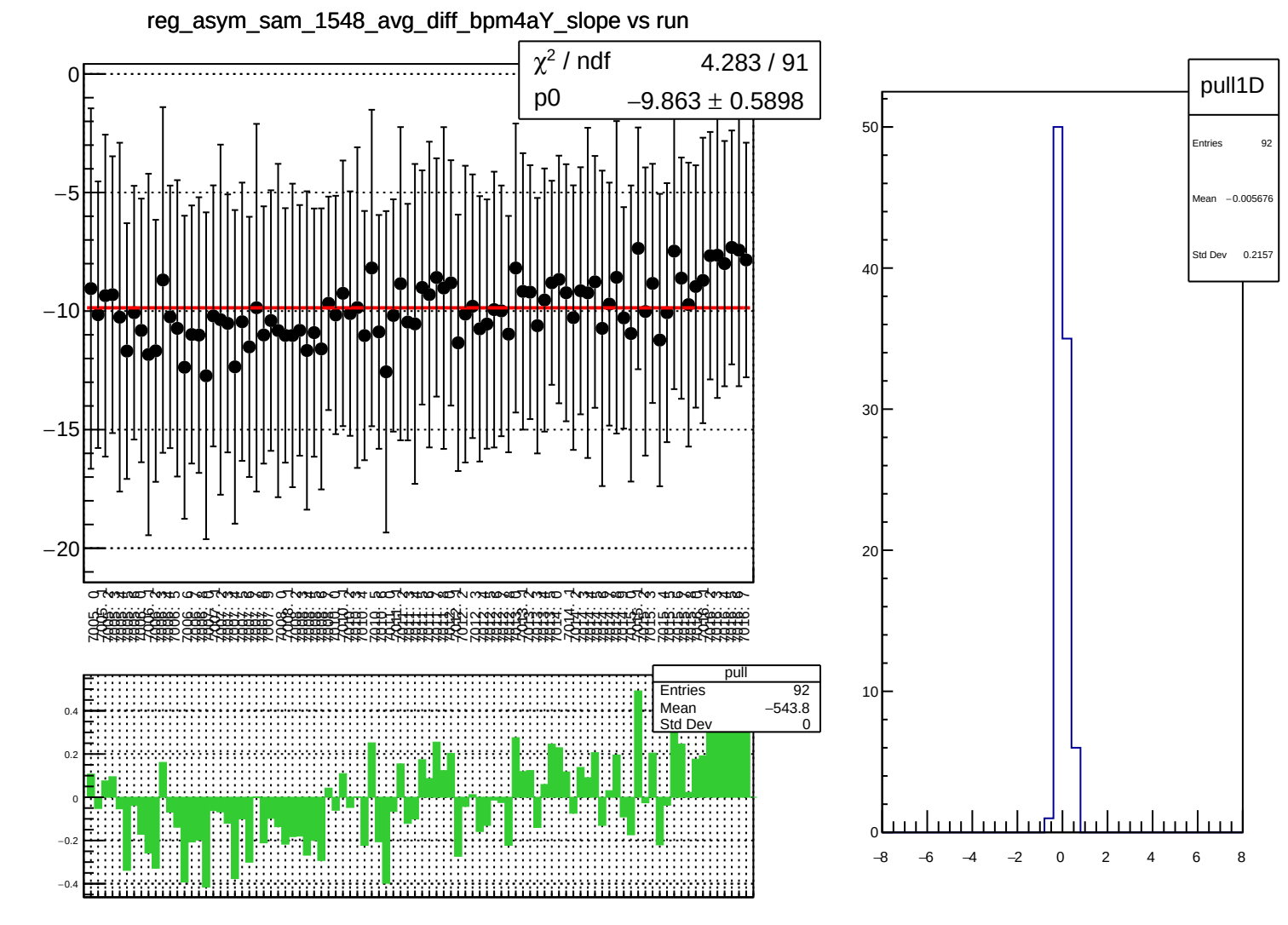

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.69 / 91
p0 −90.4 ± 0.4429
−80
−85
−90
−95
−100
pull
Entries 92
Mean −601.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

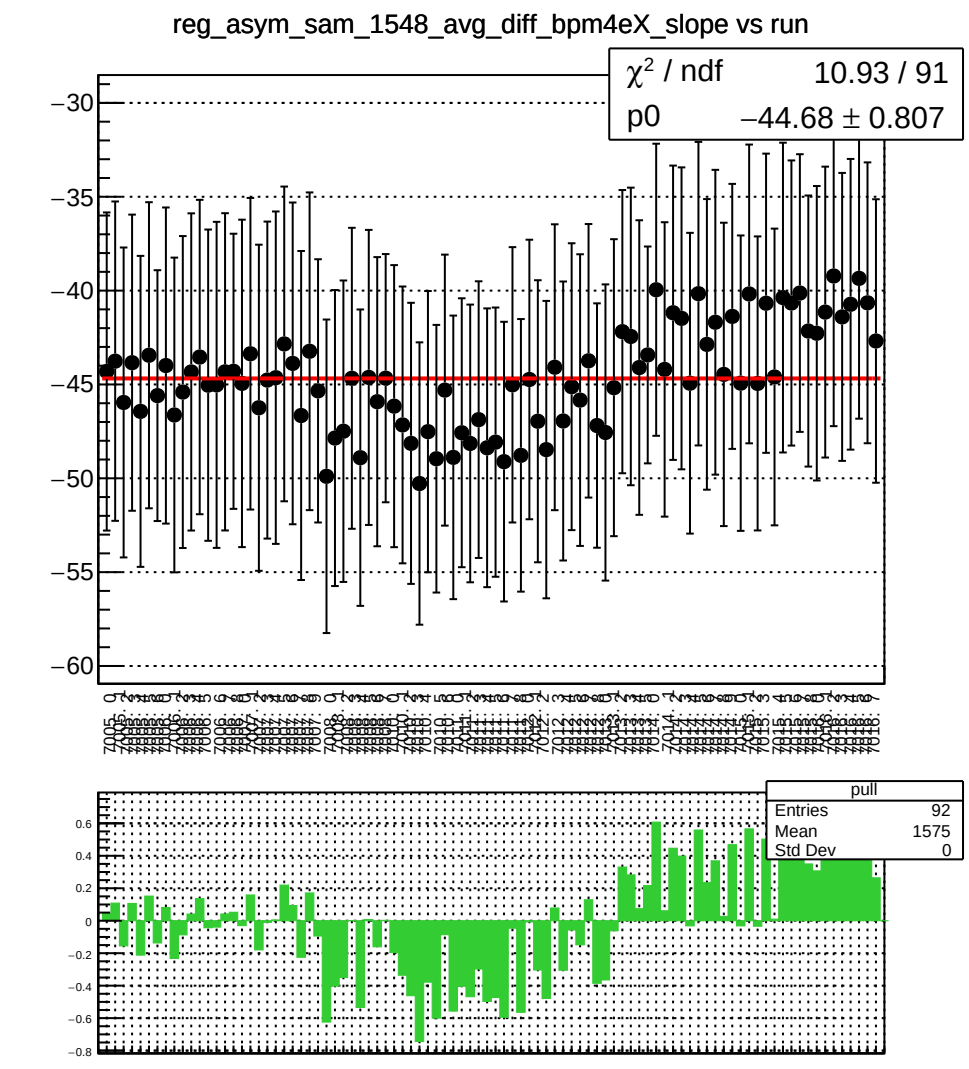

pull1D
Entries 92
Mean −0.01611
Std Dev 0.6313
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

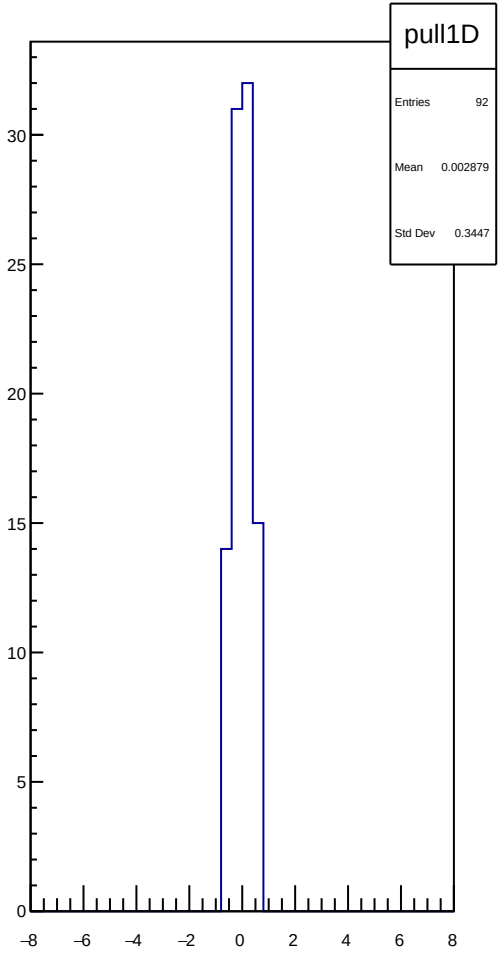

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 89.23 / 91
p0 0.3626 ± 0.01996
pull
Entries 92
Mean 714.3
Std Dev 0
pull1D
Entries 92
Mean 0.0351
Std Dev 0.9842

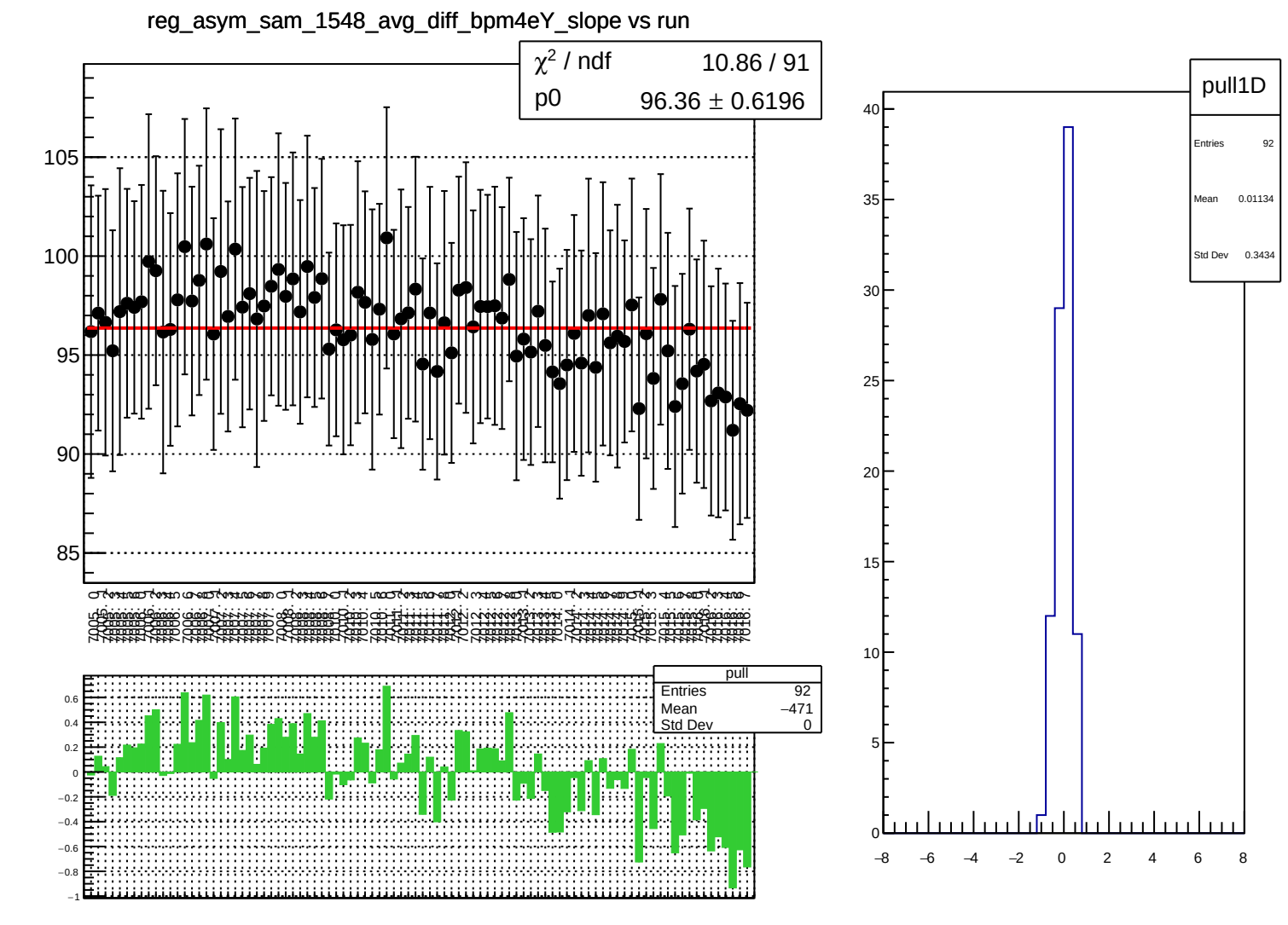

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 8.952 / 91
p0 −12.43 ± 0.8714
pull
Entries 92
Mean 1171
Std Dev 0

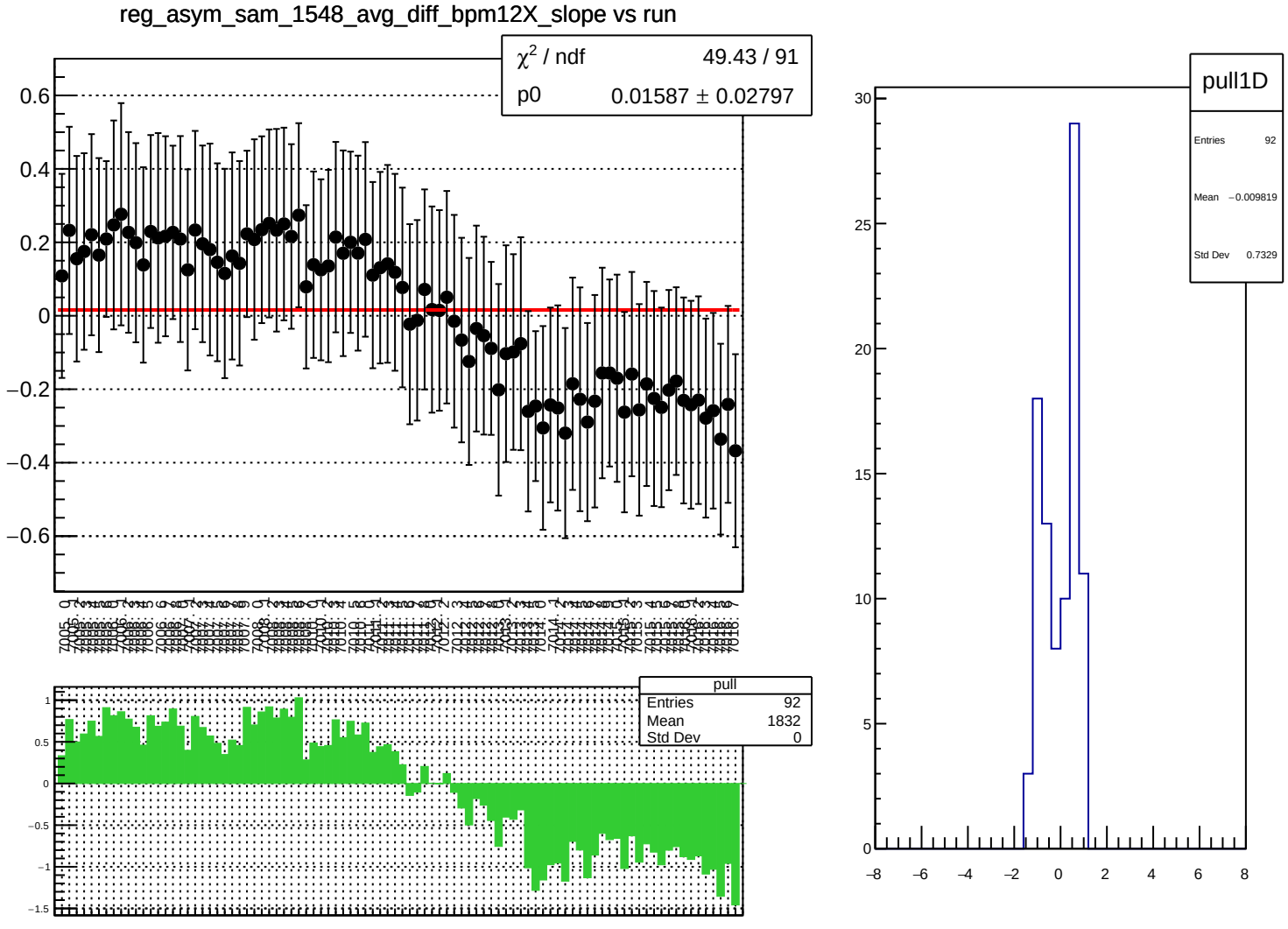

pull1D
Entries 92
Mean −0.003237
Std Dev 0.3119

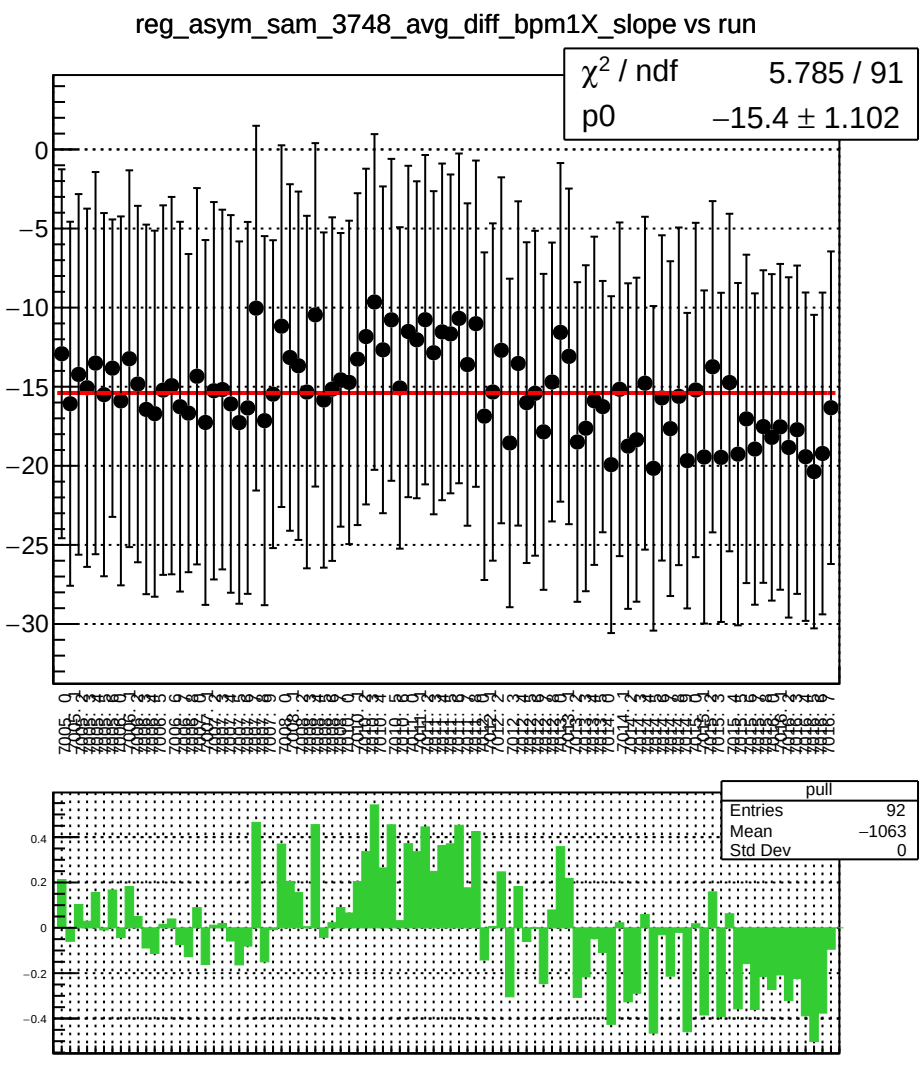

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.283 / 91
p0 −9.863 ± 0.5898
pull
Entries 92
Mean −543.8
Std Dev 0
pull1D
Entries 92
Mean −0.005676
Std Dev 0.2157

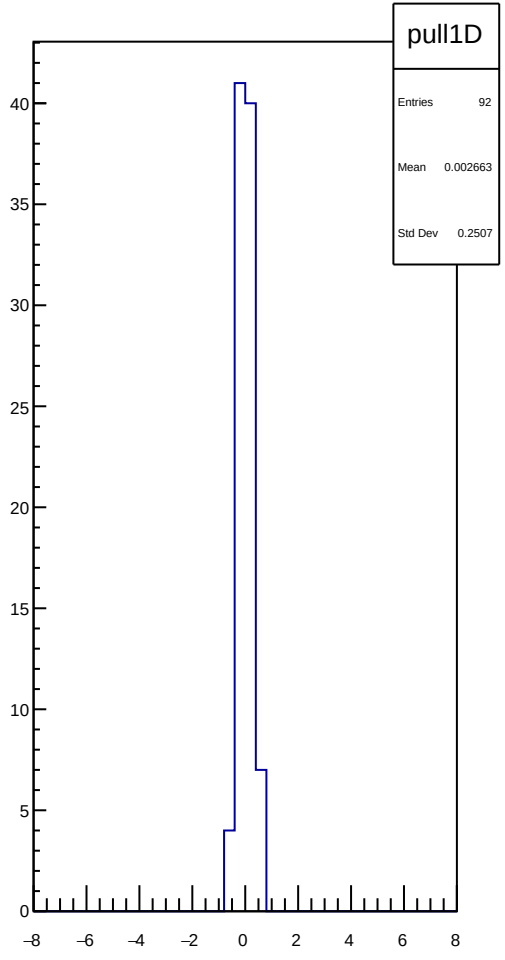

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.93 / 91
p0 −44.68 ± 0.807
pull
Entries 92
Mean 1575
Std Dev 0

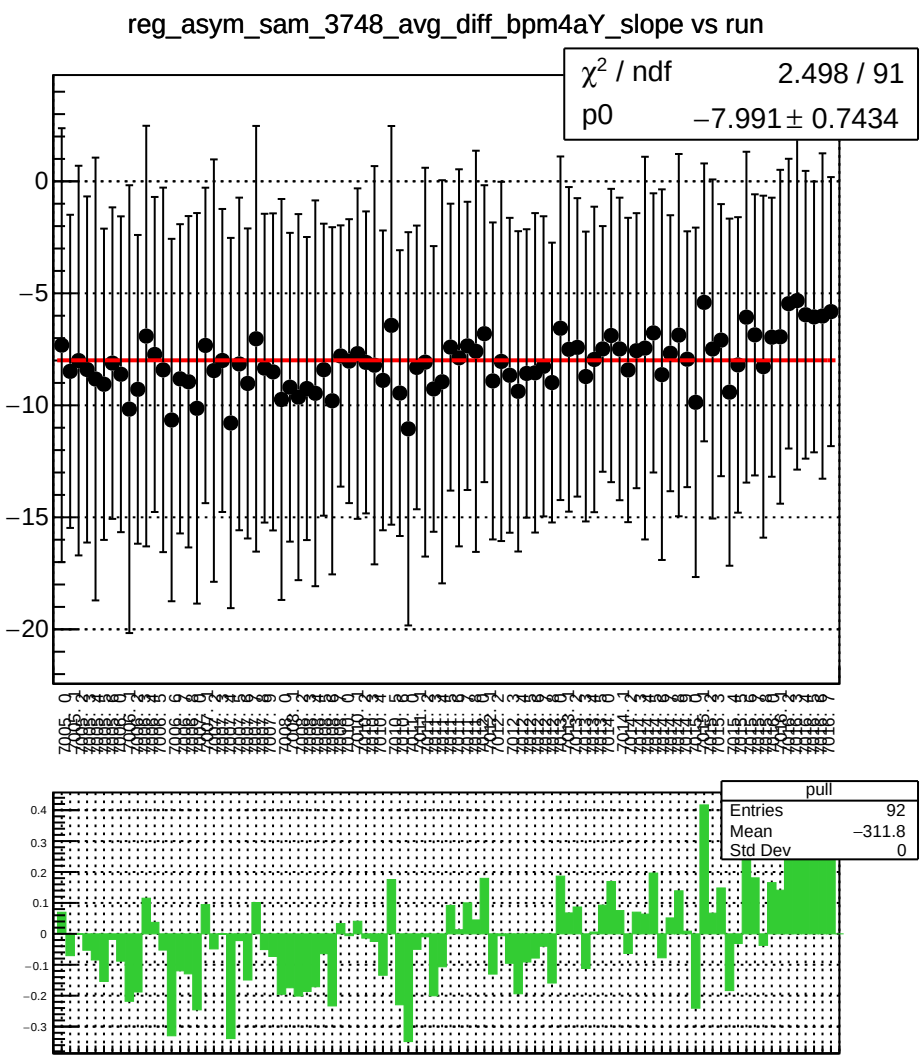

pull1D
Entries 92
Mean 0.002879
Std Dev 0.3447

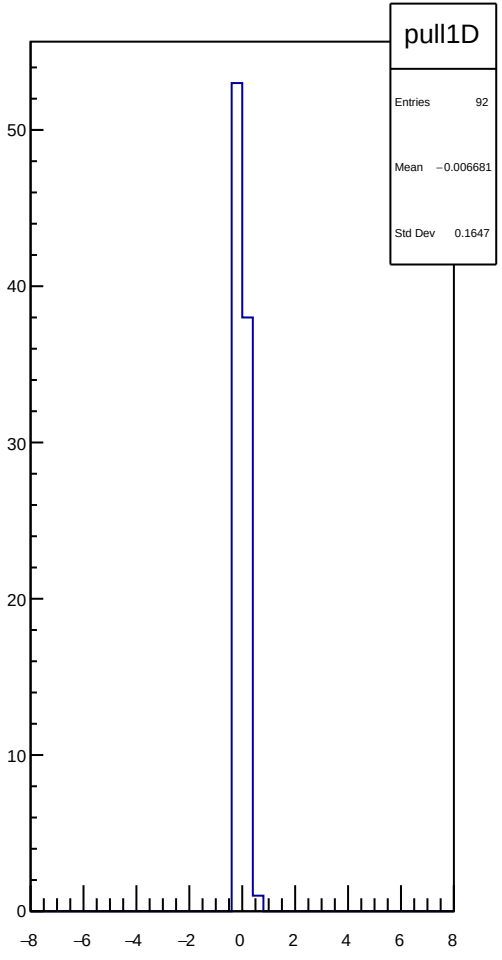

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.86 / 91
p0 96.36 ± 0.6196
105
100
95
90
85
pull
Entries 92
Mean −471
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean 0.01134
Std Dev 0.3434
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

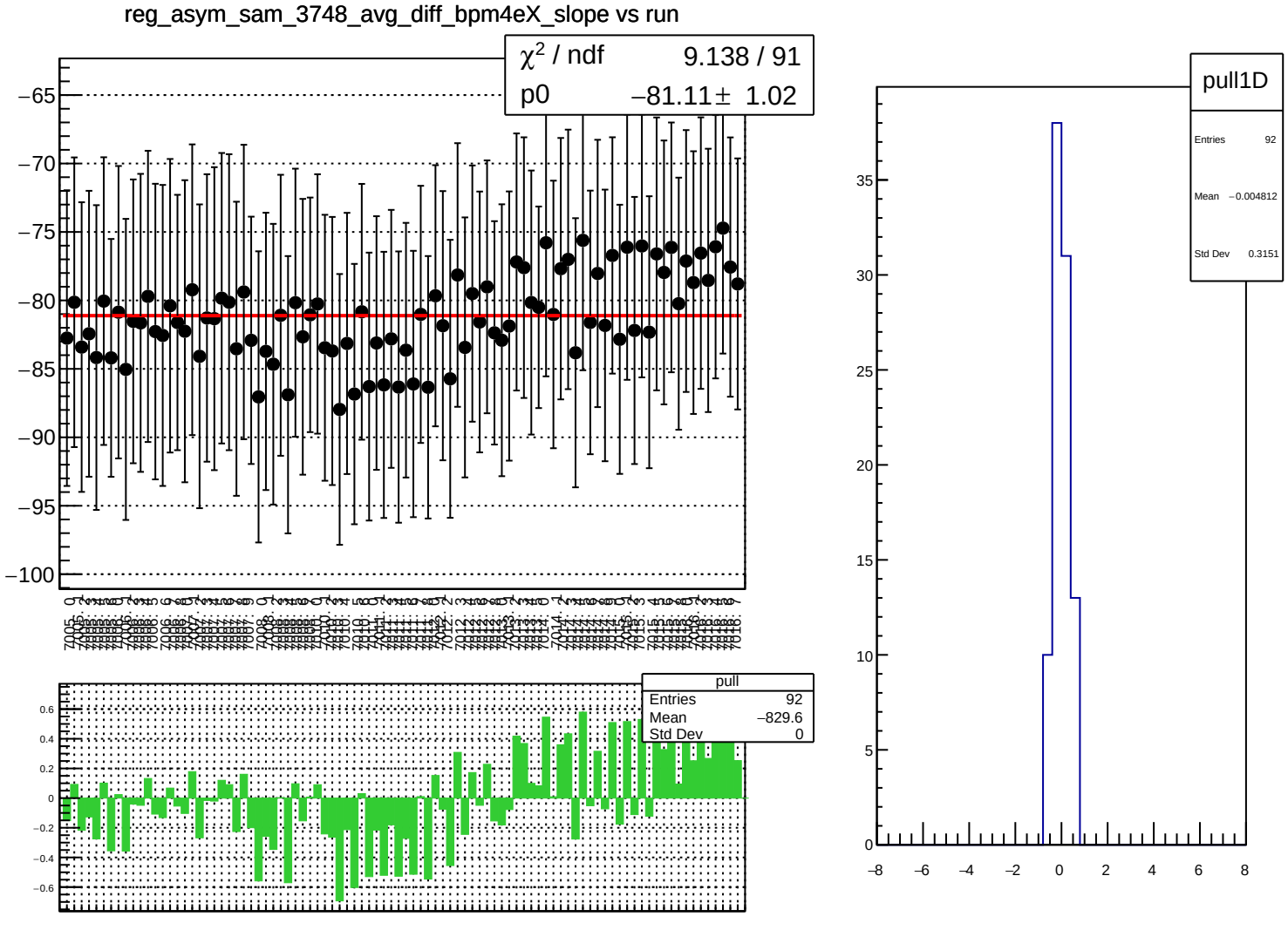

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 49.43 / 91
p0 0.01587 ± 0.02797
pull
Entries 92
Mean 1832
Std Dev 0
pull1D
Entries 92
Mean −0.009819
Std Dev 0.7329

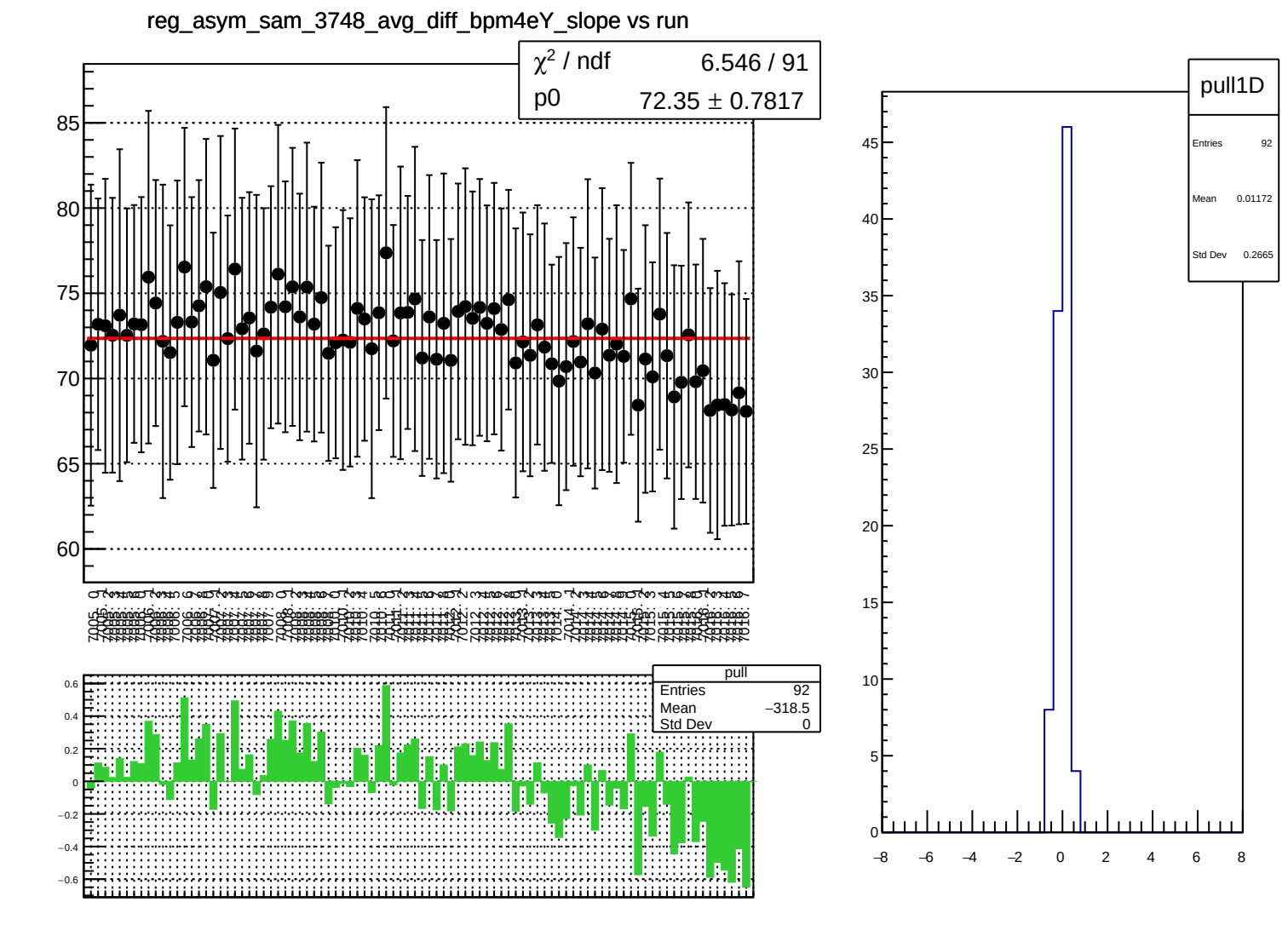

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 5.785 / 91
p0 −15.4 ± 1.102
pull
Entries 92
Mean −1063
Std Dev 0

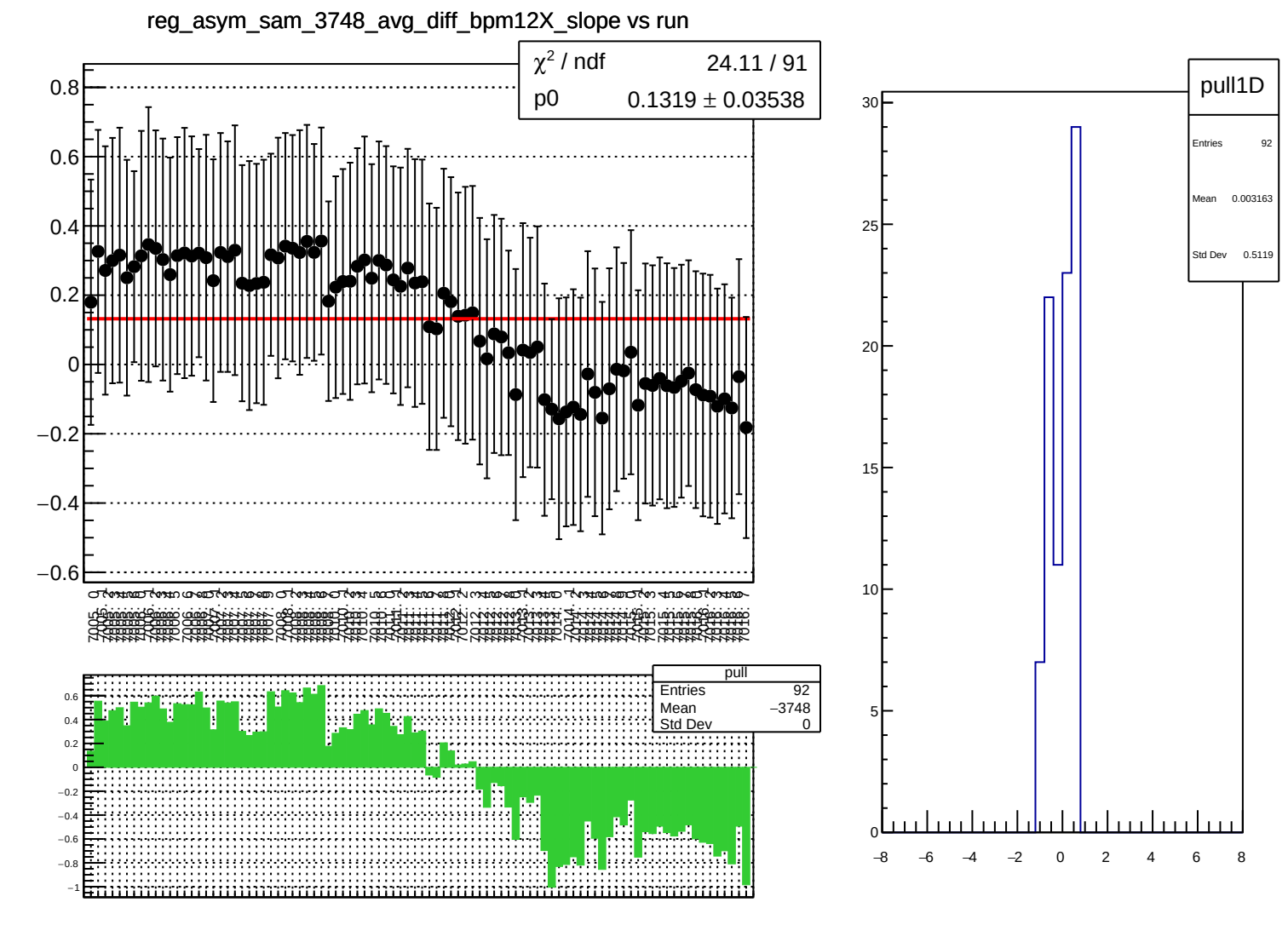

pull1D
Entries 92
Mean 0.002663
Std Dev 0.2507

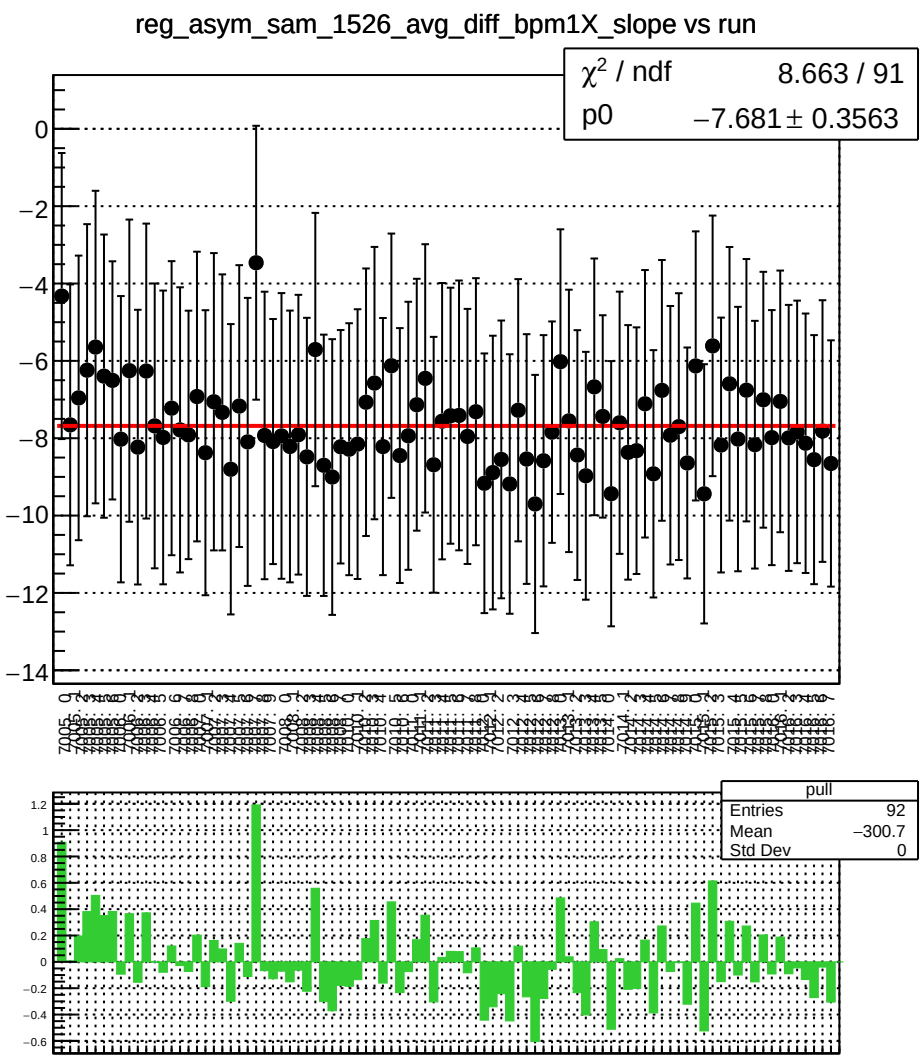

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.498 / 91
p0 −7.991 ± 0.7434
pull
Entries 92
Mean −311.8
Std Dev 0

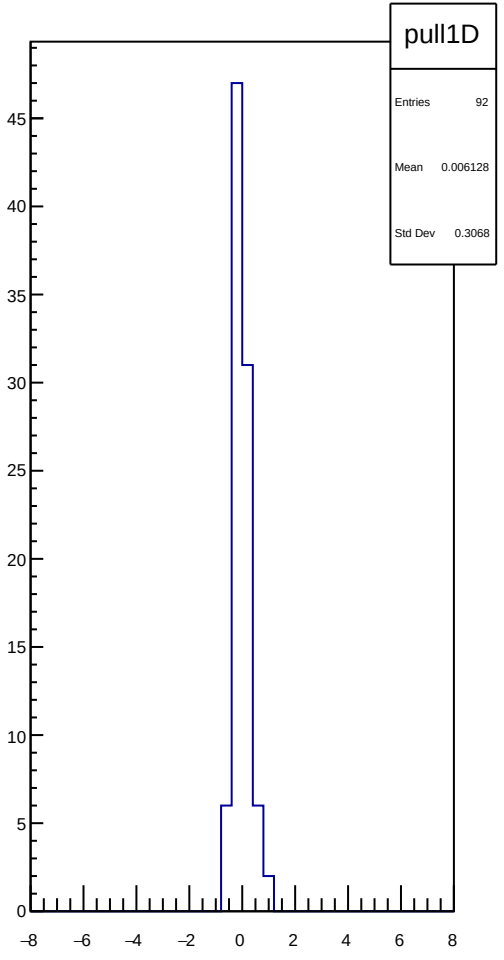

pull1D
Entries 92
Mean −0.006681
Std Dev 0.1647

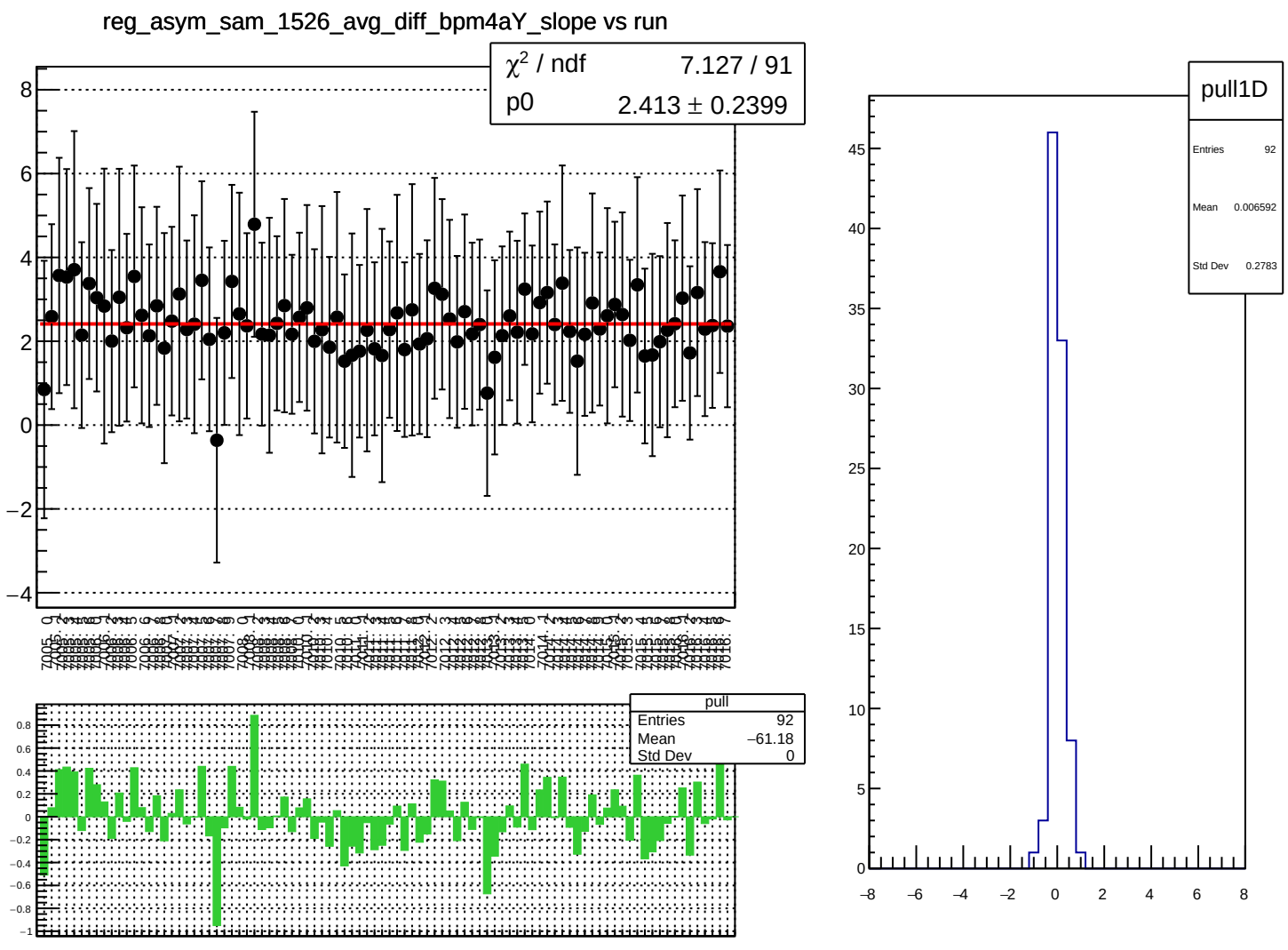

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.138 / 91
p0 −81.11 ± 1.02
−65
−70
−75
−80
−85
−90
−95
−100
pull
Entries 92
Mean −829.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.004812
Std Dev 0.3151
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

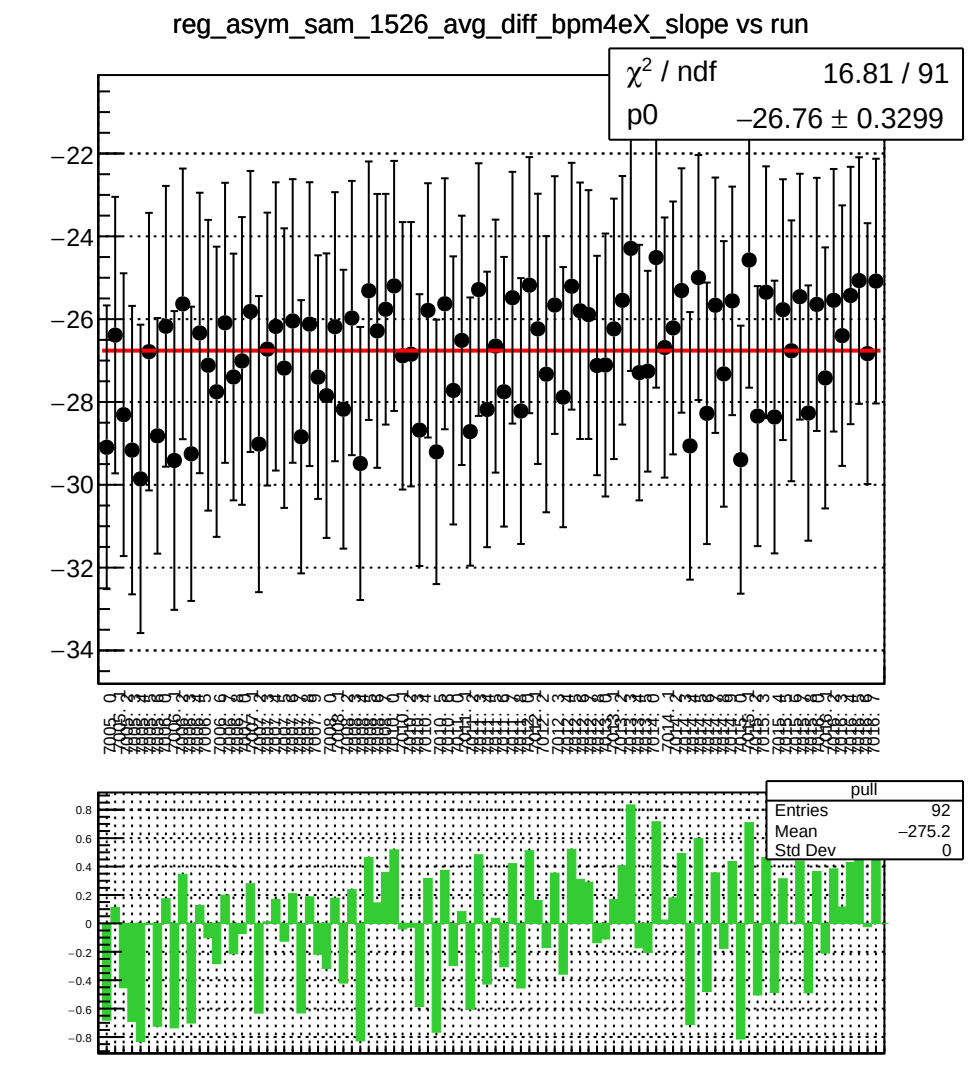

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.546 / 91
p0 72.35 ± 0.7817
85
80
75
70
65
60
pull
Entries 92
Mean −318.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.01172
Std Dev 0.2665
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

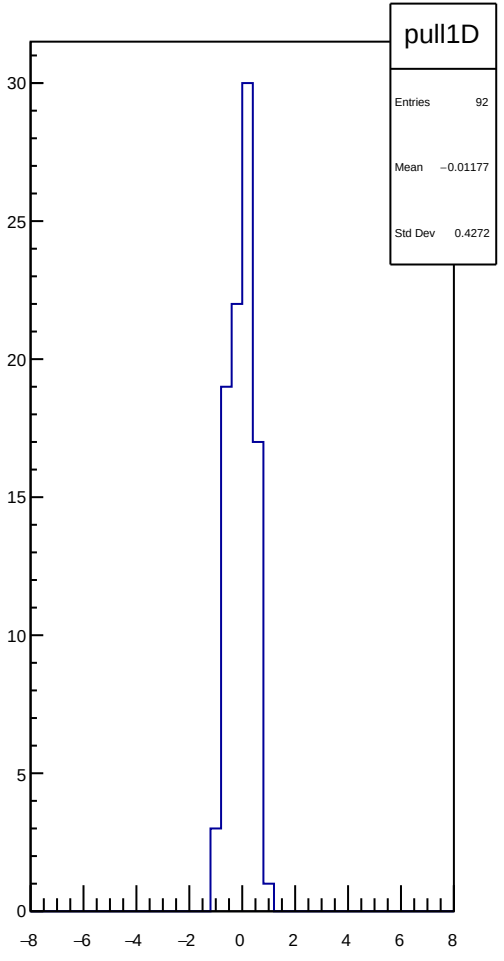

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 24.11 / 91
p0 0.1319 ± 0.03538
pull
Entries 92
Mean −3748
Std Dev 0
pull1D
Entries 92
Mean 0.003163
Std Dev 0.5119

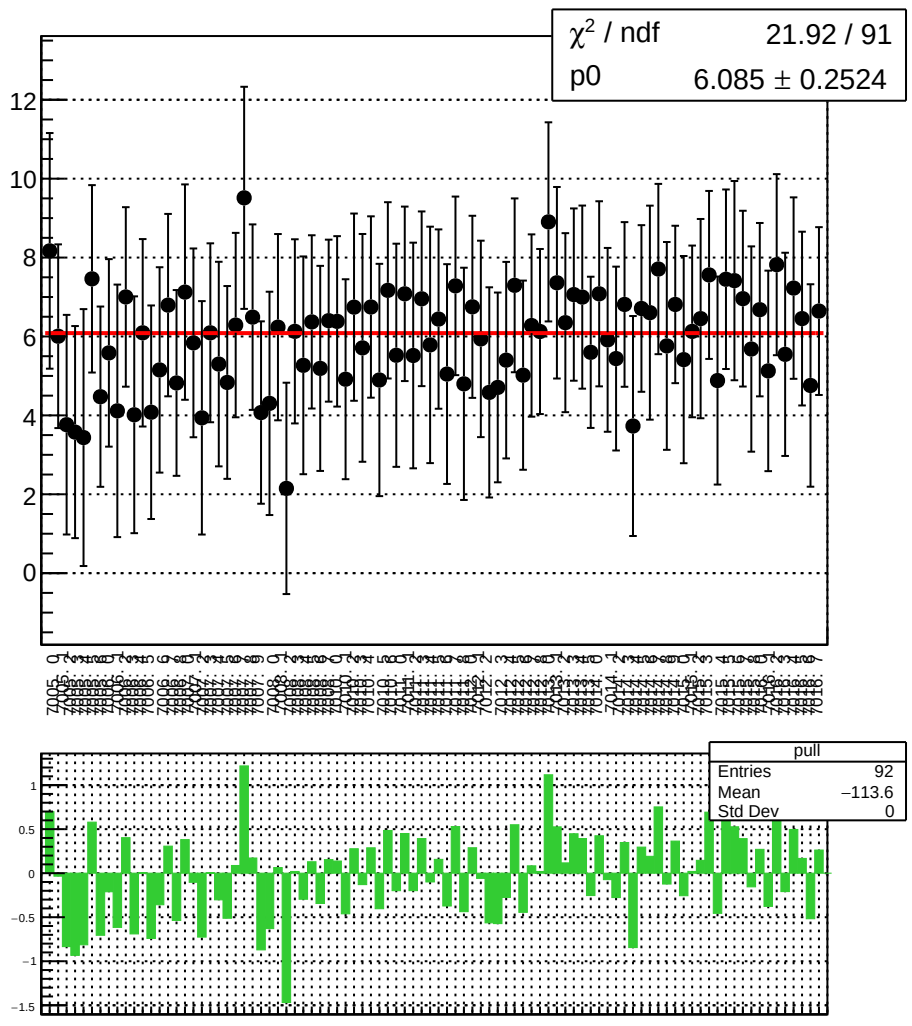

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 8.663 / 91
p0 −7.681 ± 0.3563
pull
Entries 92
Mean −300.7
Std Dev 0

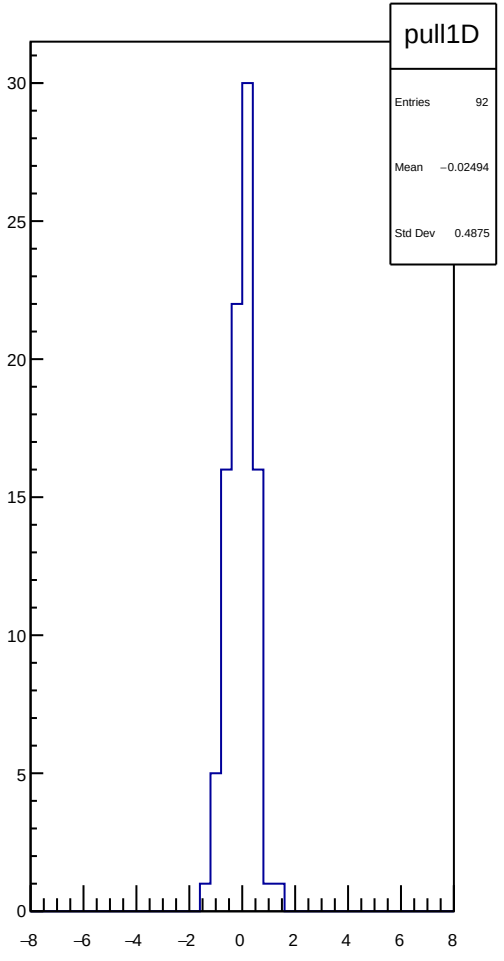

pull1D
Entries 92
Mean 0.006128
Std Dev 0.3068

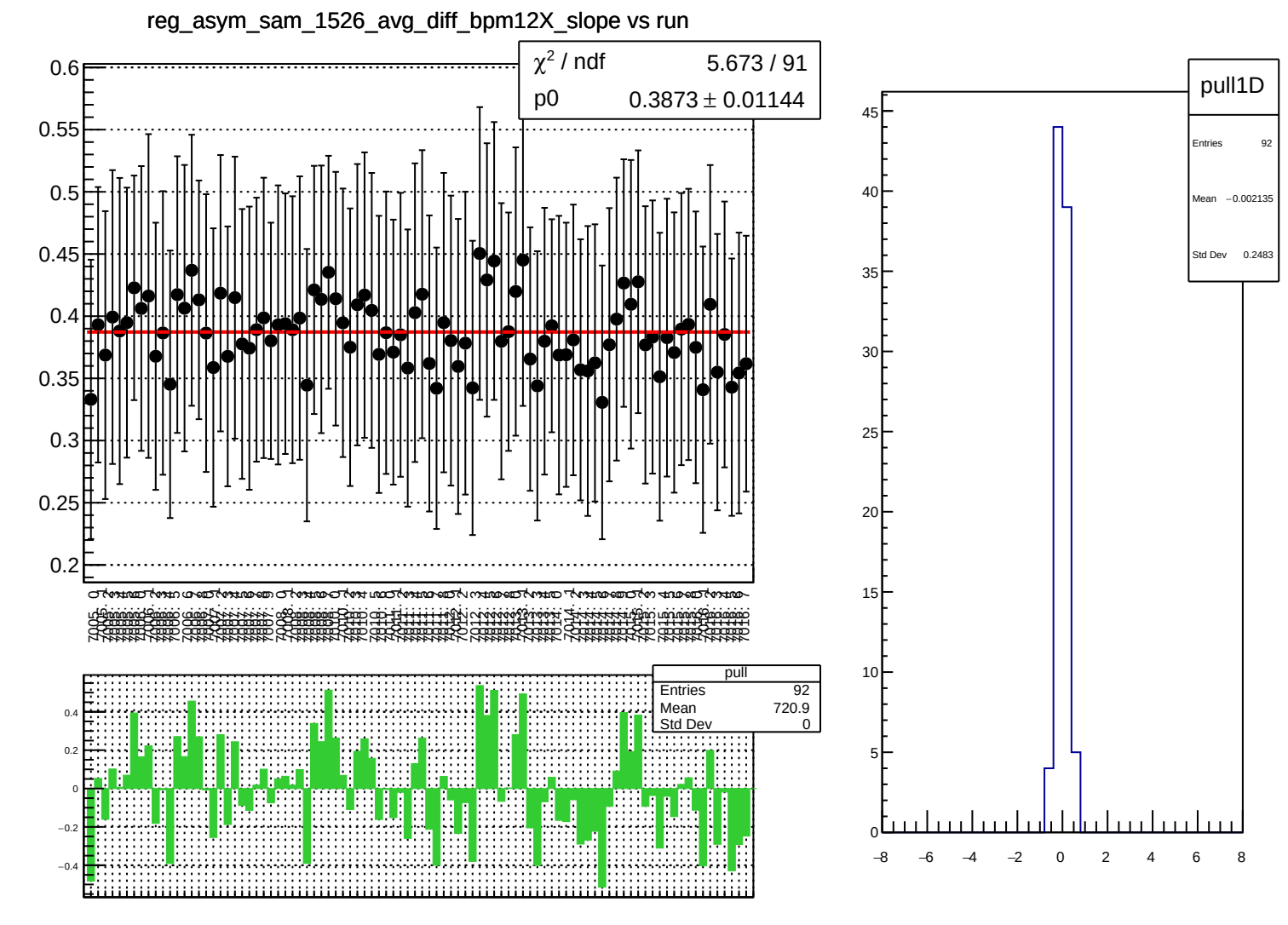

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.127 / 91
p0 2.413 ± 0.2399
pull
Entries 92
Mean −61.18
Std Dev 0
pull1D
Entries 92
Mean 0.006592
Std Dev 0.2783

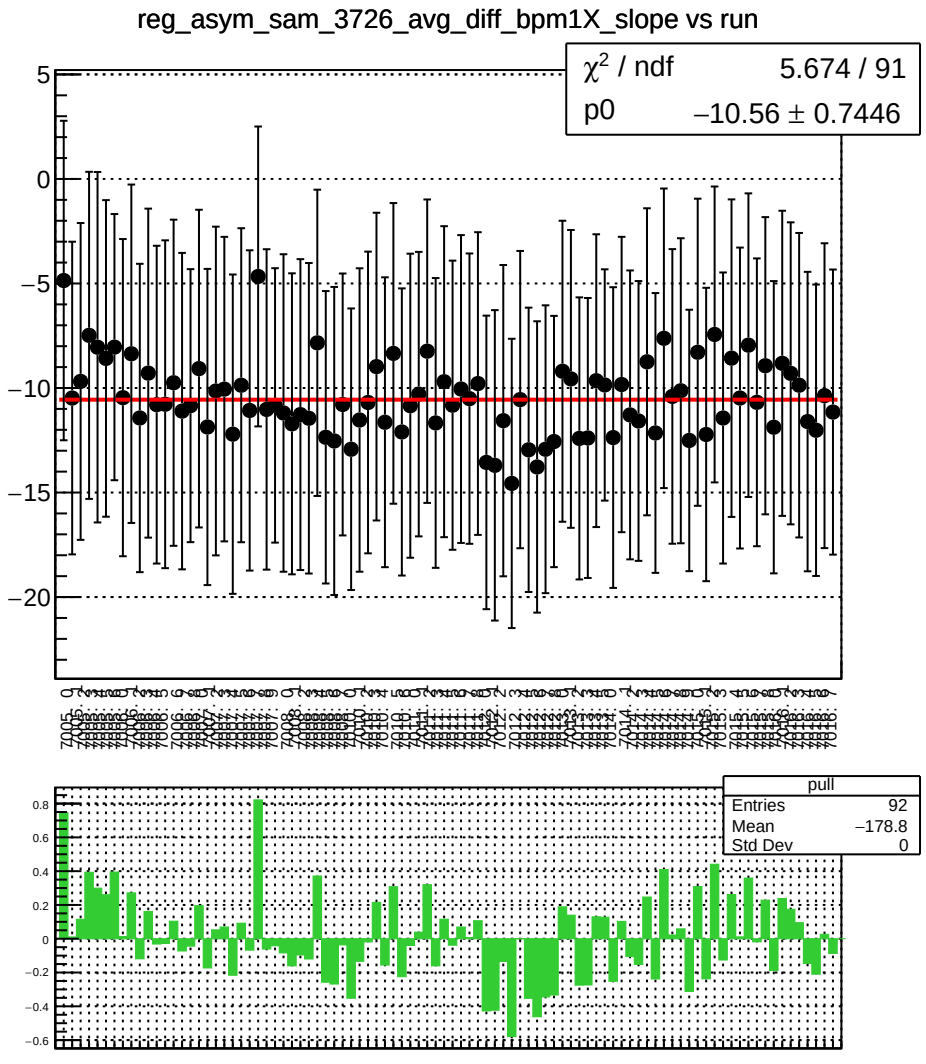

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.81 / 91
p0 −26.76 ± 0.3299
pull
Entries 92
Mean −275.2
Std Dev 0

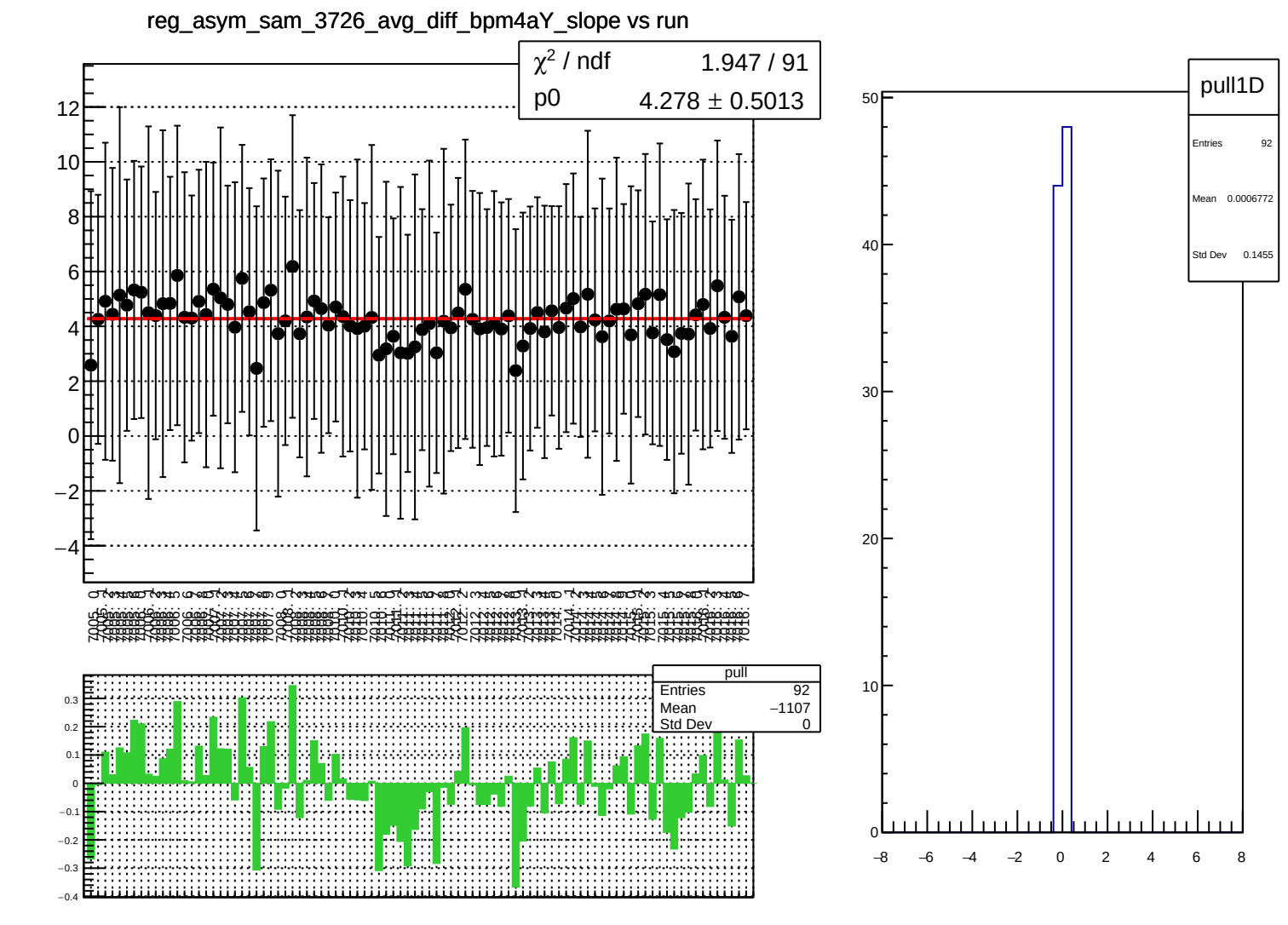

pull1D
Entries 92
Mean −0.01177
Std Dev 0.4272

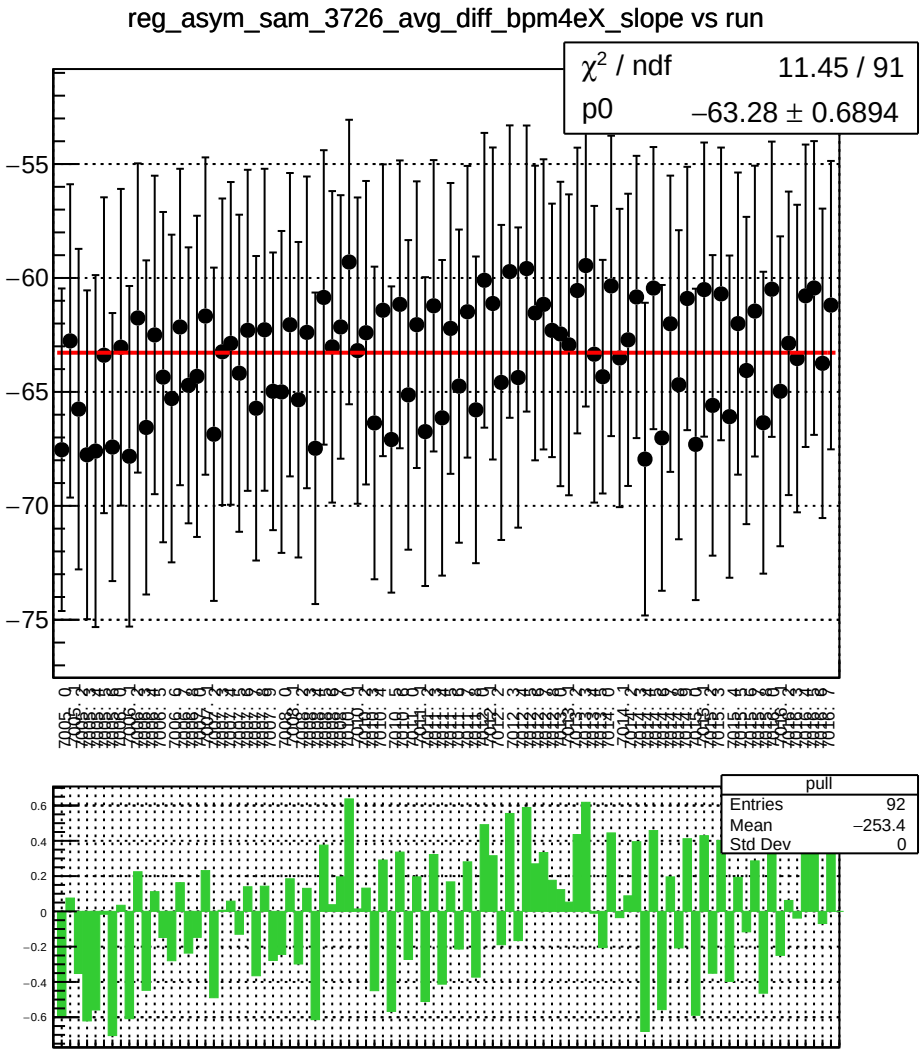

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.92 / 91
p0 6.085 ± 0.2524
pull
Entries 92
Mean −113.6
Std Dev 0

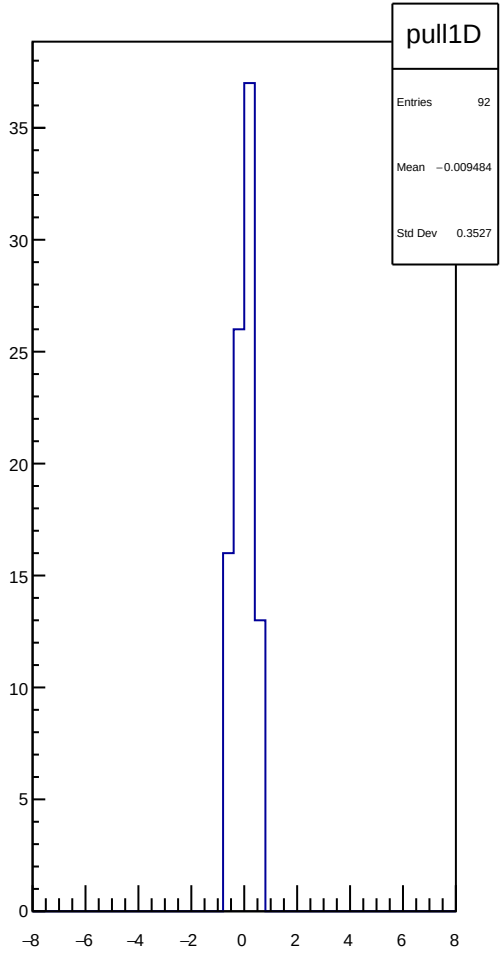

pull1D
Entries 92
Mean −0.02494
Std Dev 0.4875

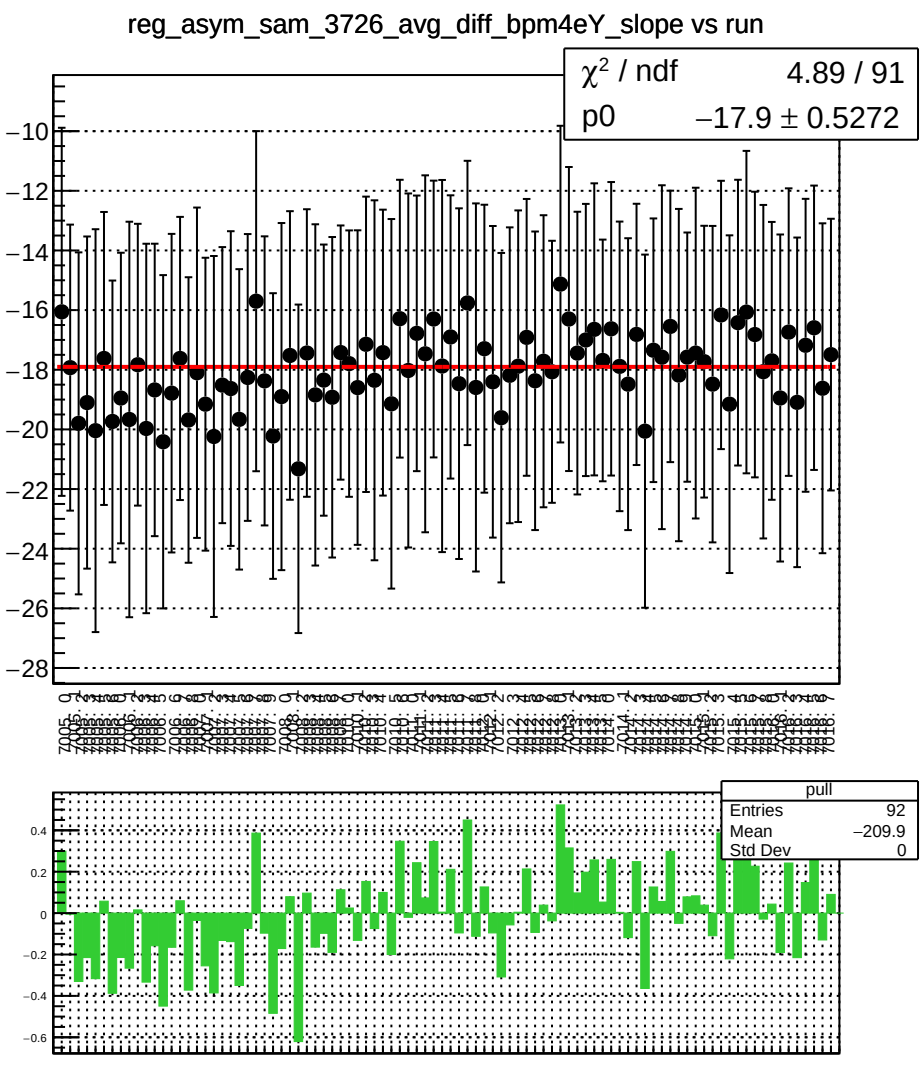

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 5.673 / 91
p0 0.3873 ± 0.01144
pull
Entries 92
Mean 720.9
Std Dev 0
pull1D
Entries 92
Mean −0.002135
Std Dev 0.2483

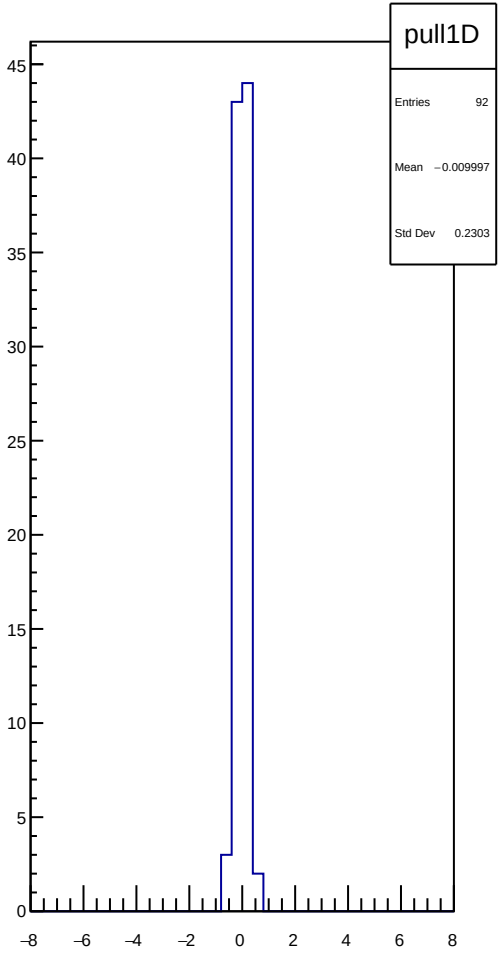

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 5.674 / 91
p0 −10.56 ± 0.7446
pull
Entries 92
Mean −178.8
Std Dev 0
pull1D
Entries 92
Mean 0.004805
Std Dev 0.2483

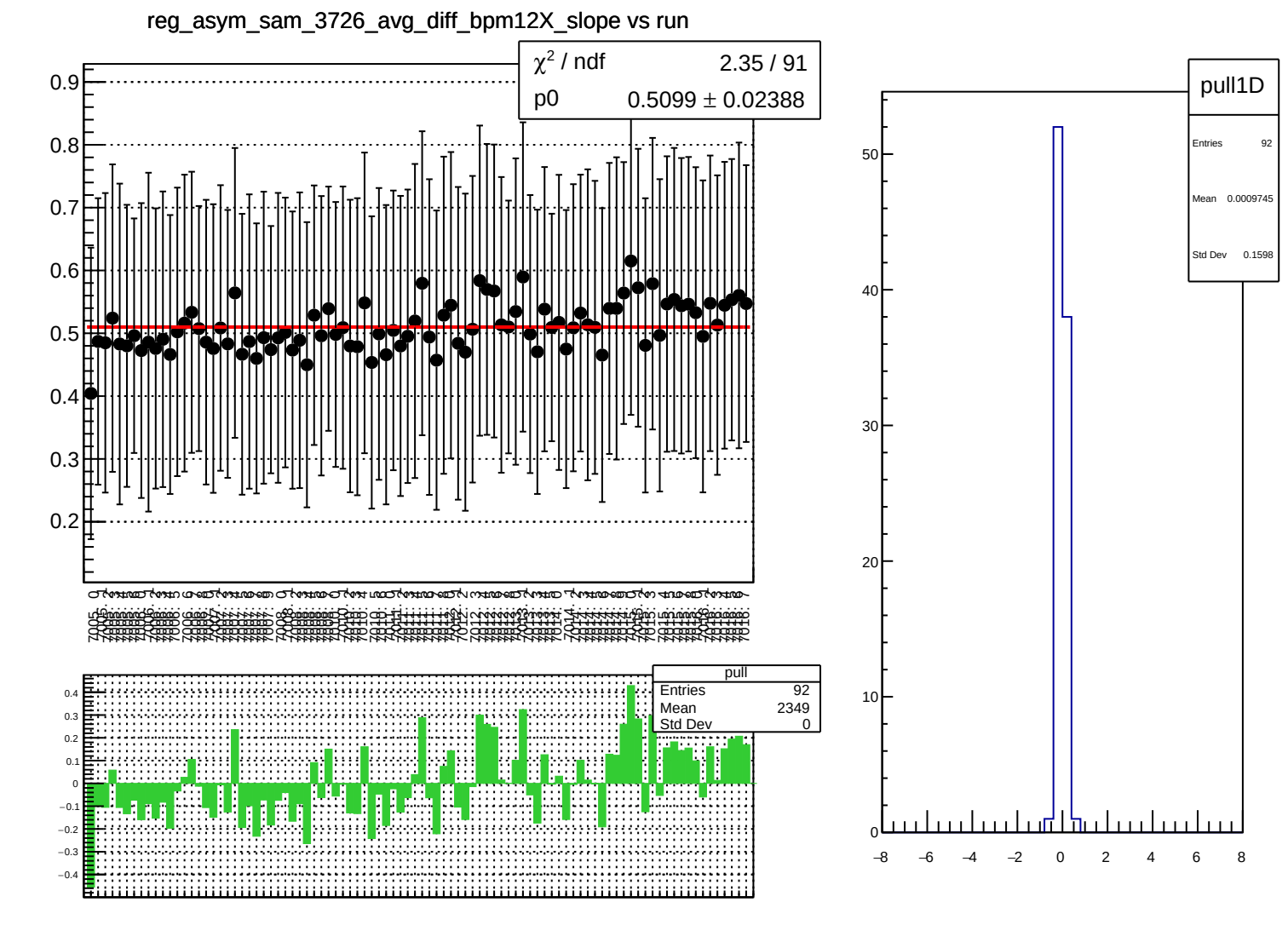

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.947 / 91
p0 4.278 ± 0.5013
pull
Entries 92
Mean −1107
Std Dev 0
pull1D
Entries 92
Mean 0.0006772
Std Dev 0.1455

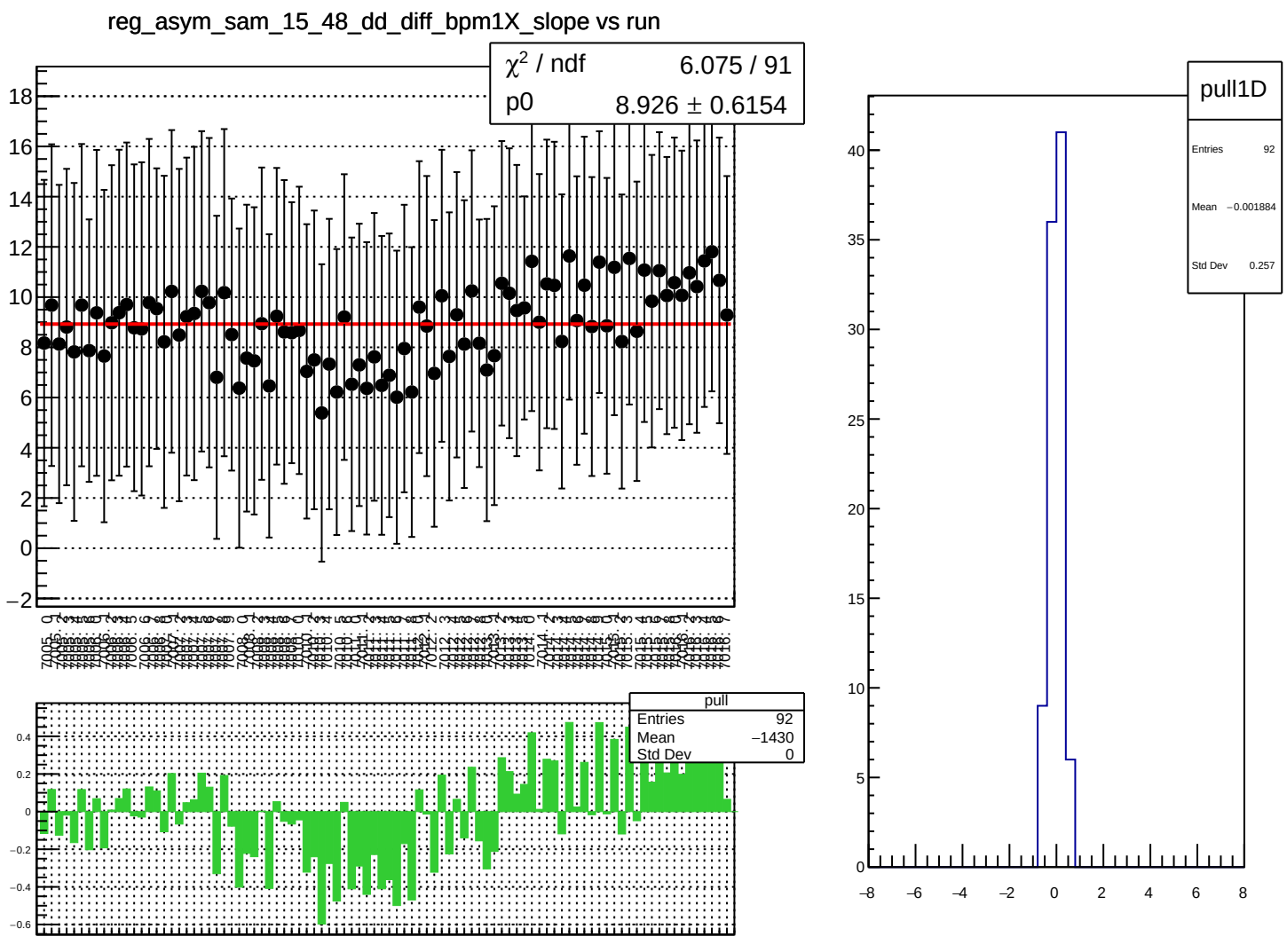

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.45 / 91
p0 −63.28 ± 0.6894
−55
−60
−65
−70
−75
pull
Entries 92
Mean −253.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

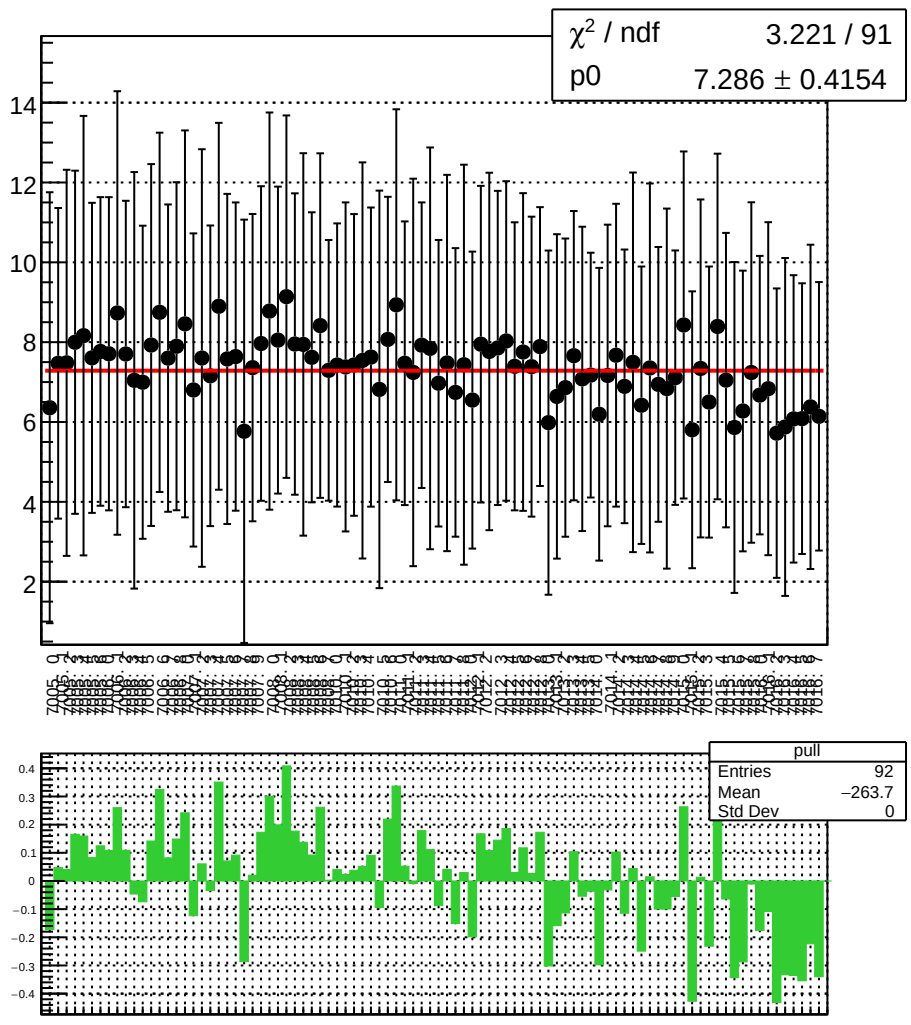

pull1D
Entries 92
Mean −0.009484
Std Dev 0.3527
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

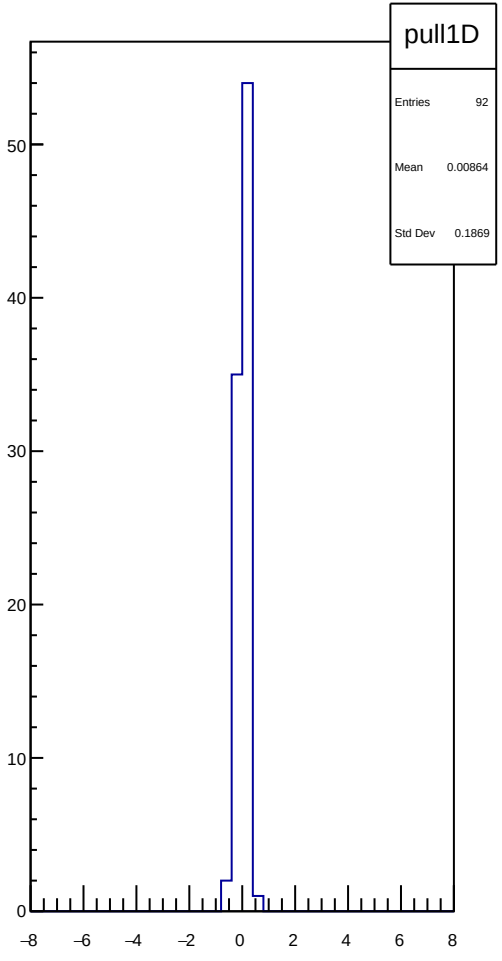

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.89 / 91
p0 −17.9 ± 0.5272
pull
Entries 92
Mean −209.9
Std Dev 0

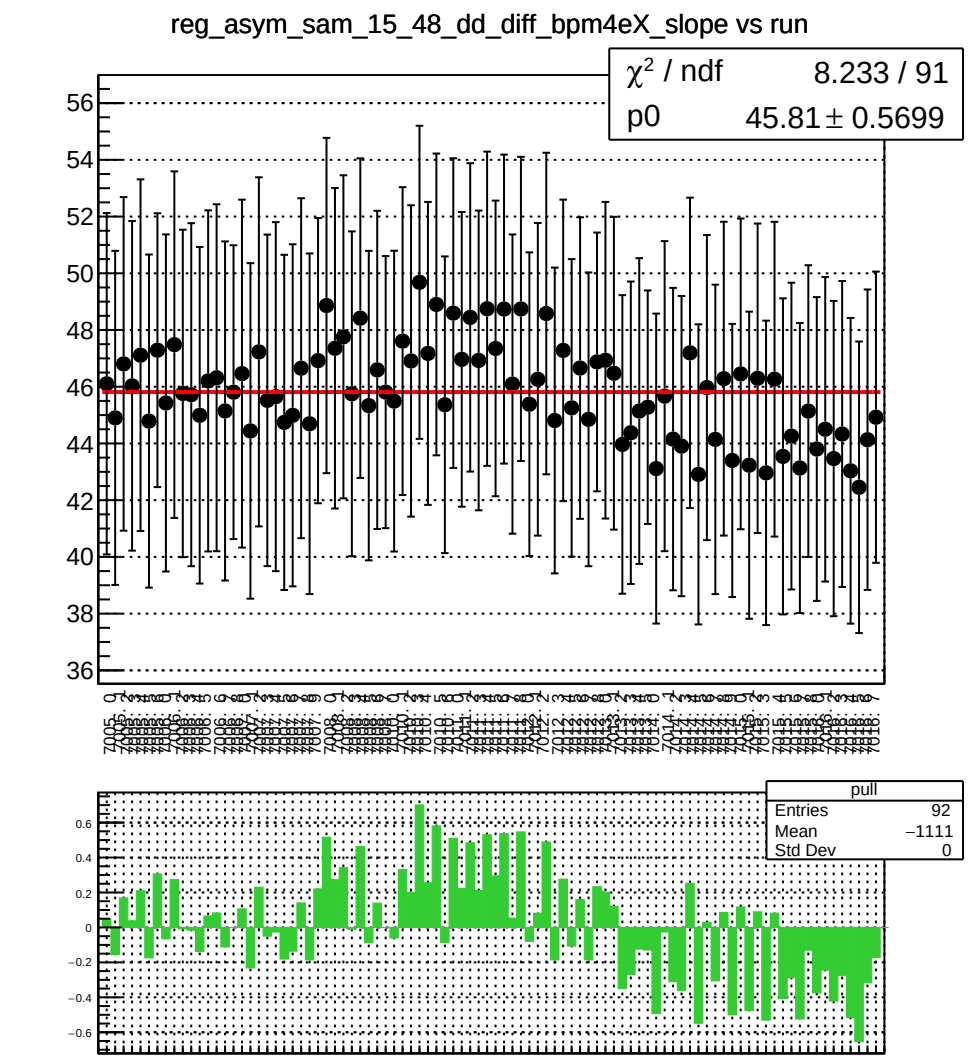

pull1D
Entries 92
Mean −0.009997
Std Dev 0.2303

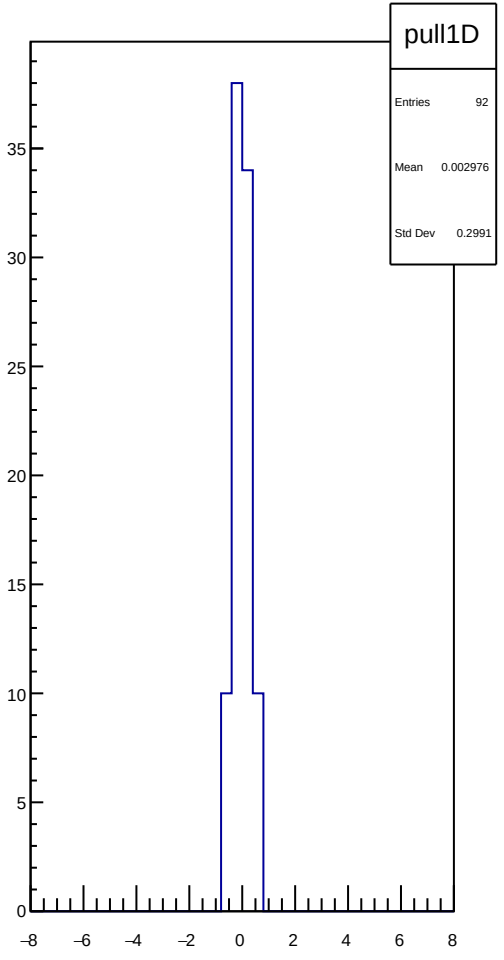

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.35 / 91
p0 0.5099 ± 0.02388
pull
Entries 92
Mean 2349
Std Dev 0
pull1D
Entries 92
Mean 0.0009745
Std Dev 0.1598

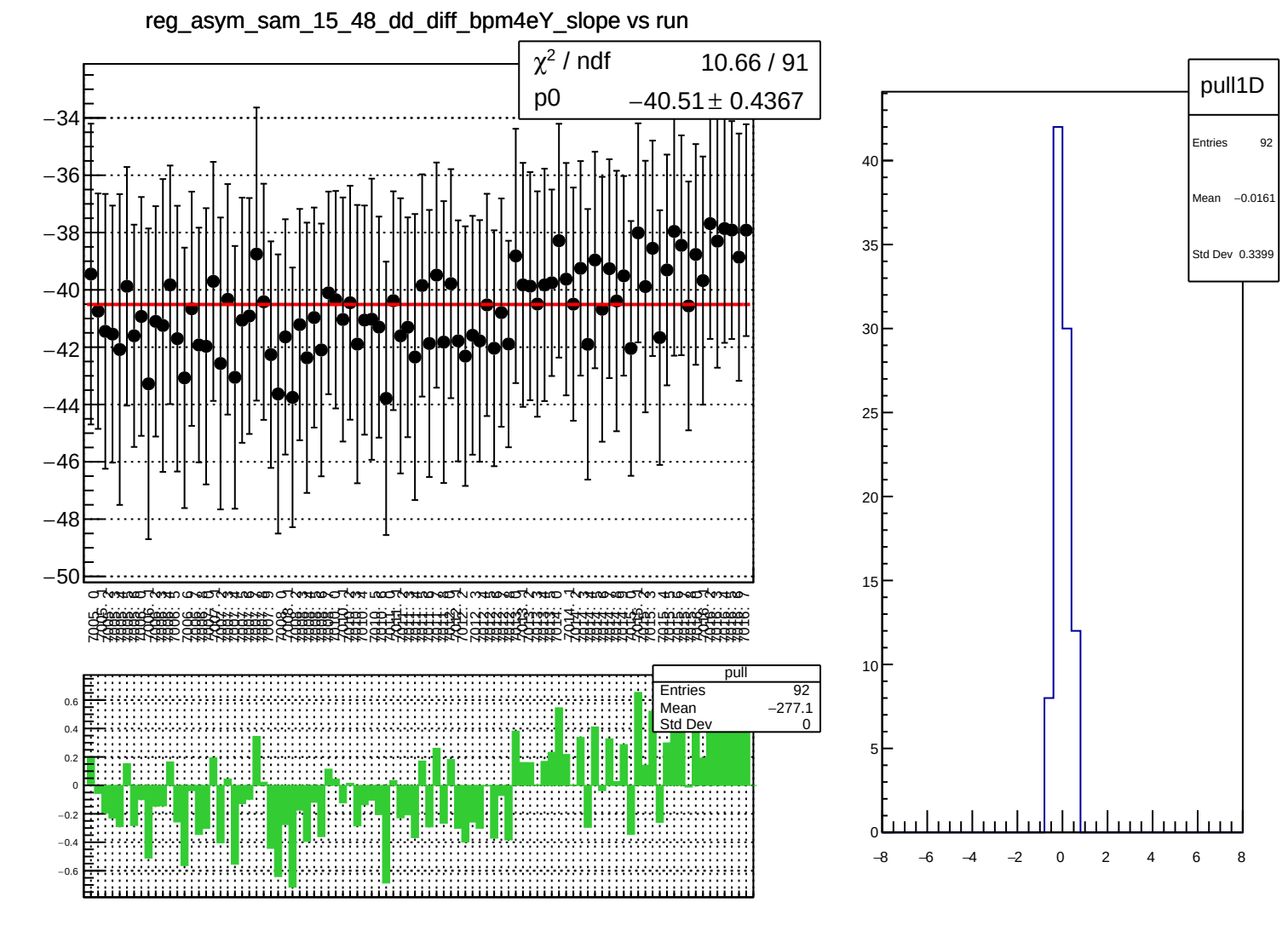

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.075 / 91
p0 8.926 ± 0.6154
pull
Entries 92
Mean −1430
Std Dev 0
pull1D
Entries 92
Mean −0.001884
Std Dev 0.257

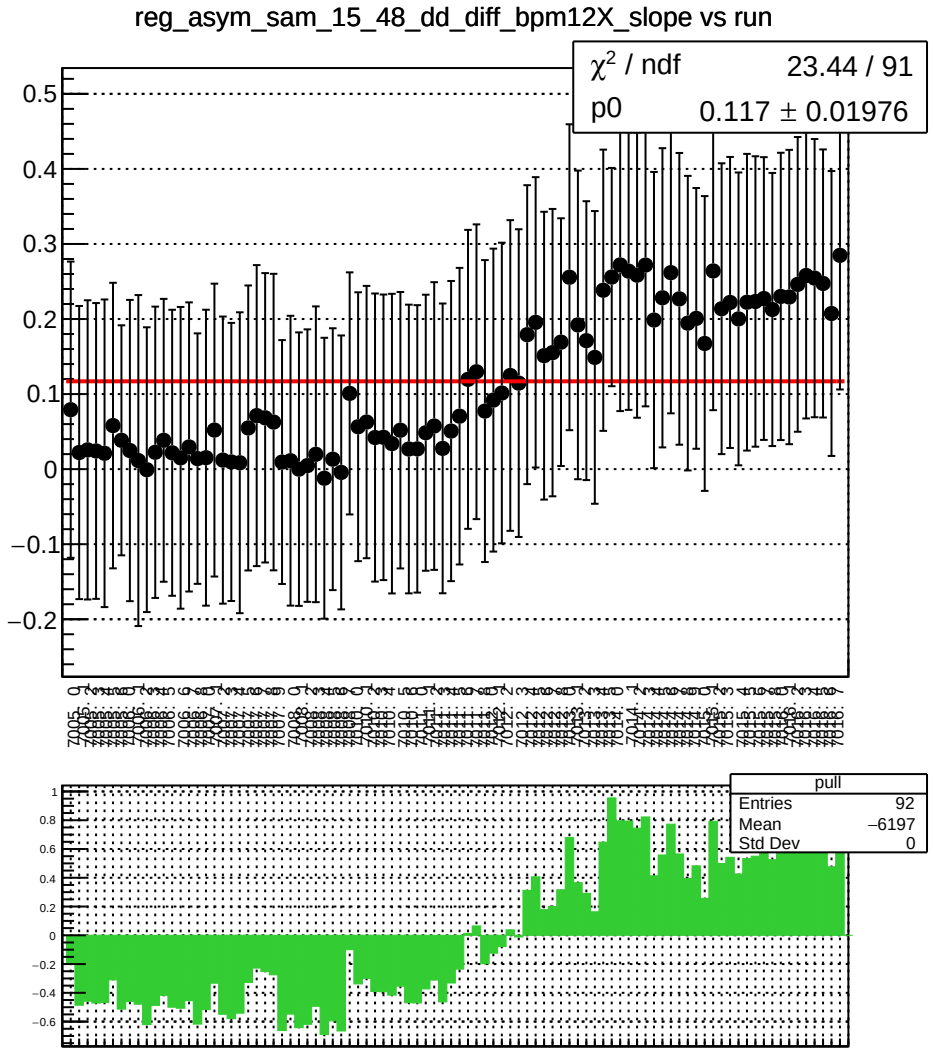

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.221 / 91
p0 7.286 ± 0.4154
pull
Entries 92
Mean −263.7
Std Dev 0

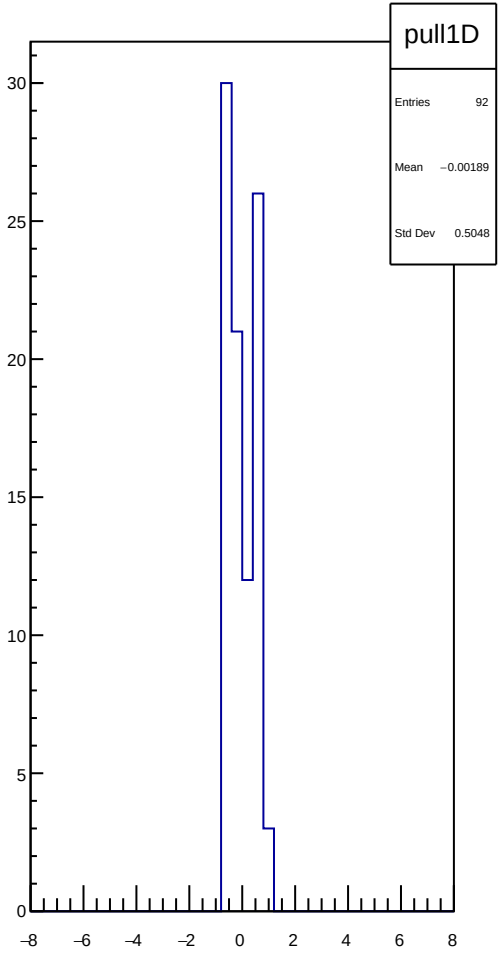

pull1D
Entries 92
Mean 0.00864
Std Dev 0.1869

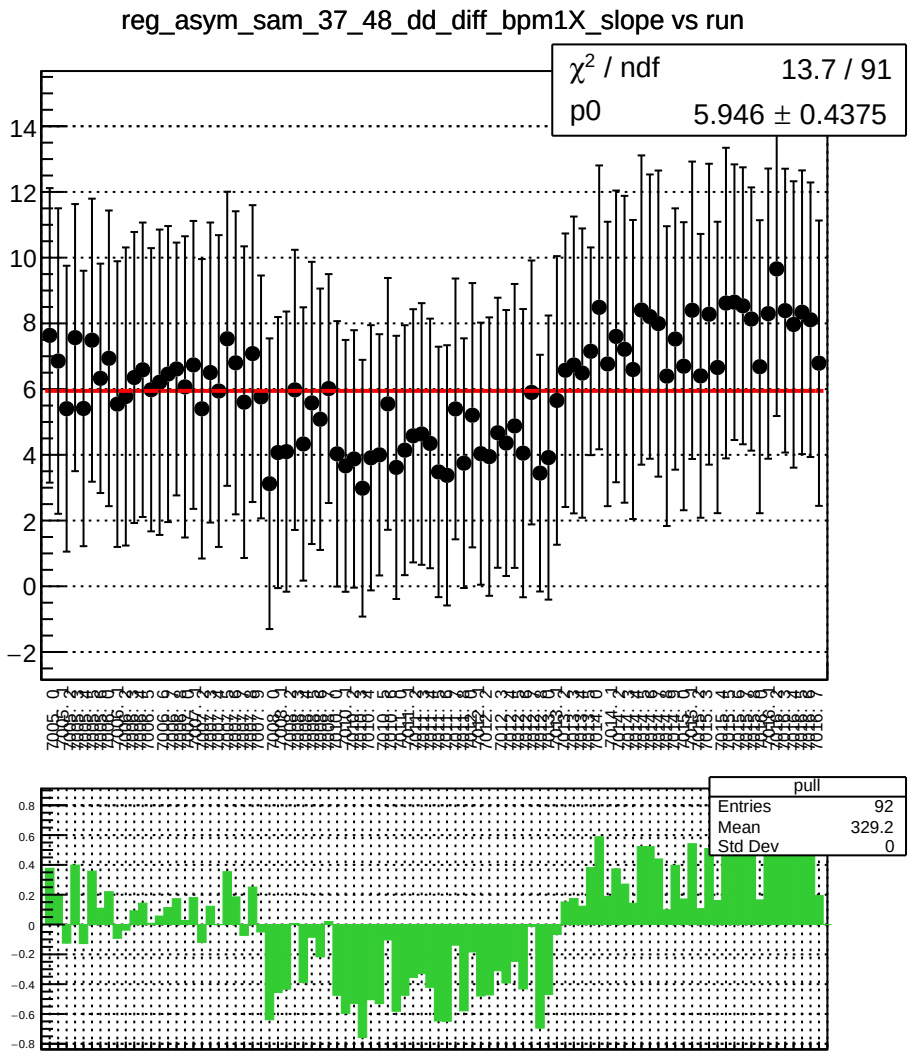

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.233 / 91
p0 45.81 ± 0.5699
pull
Entries 92
Mean −1111
Std Dev 0

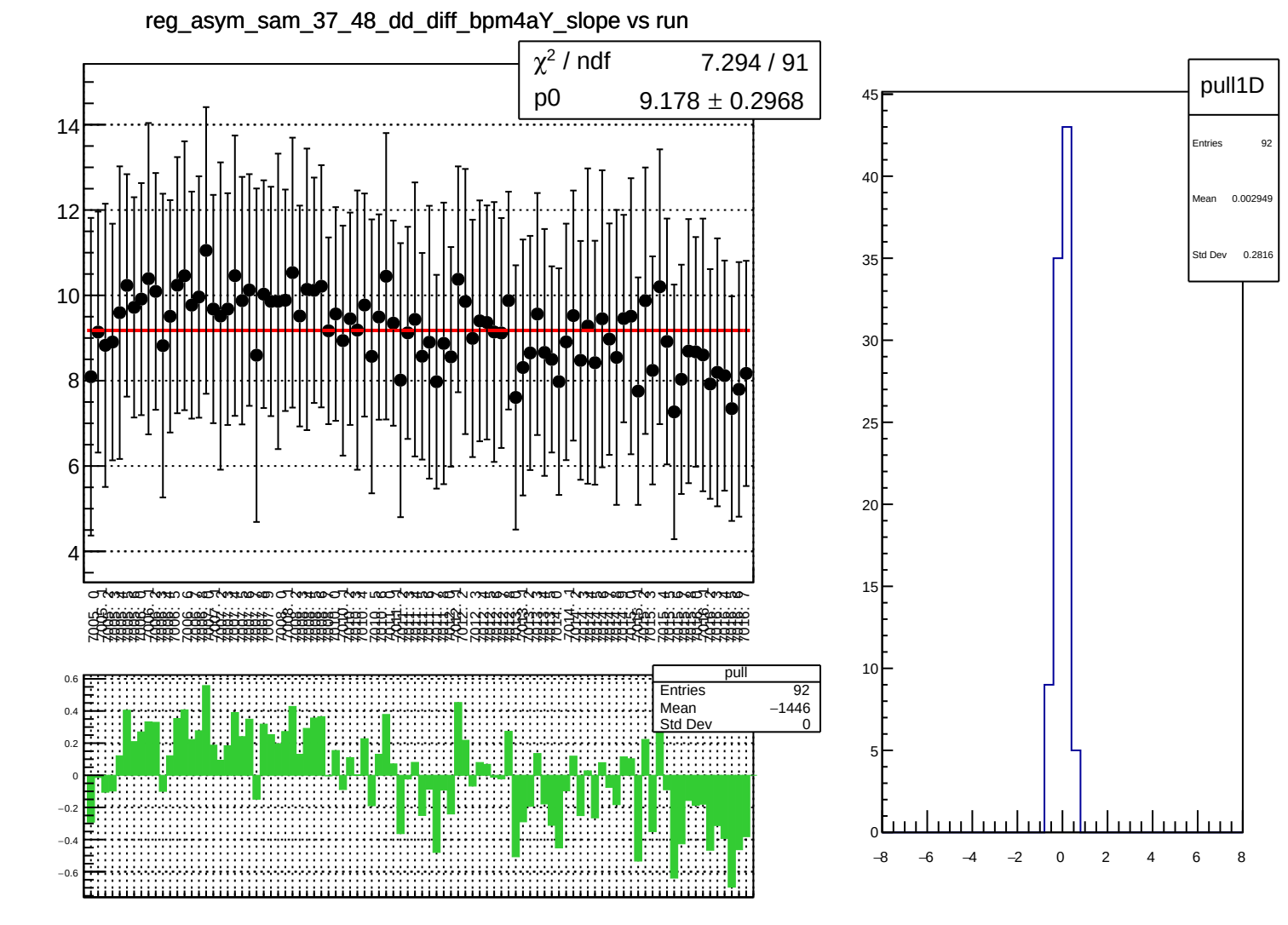

pull1D
Entries 92
Mean 0.002976
Std Dev 0.2991

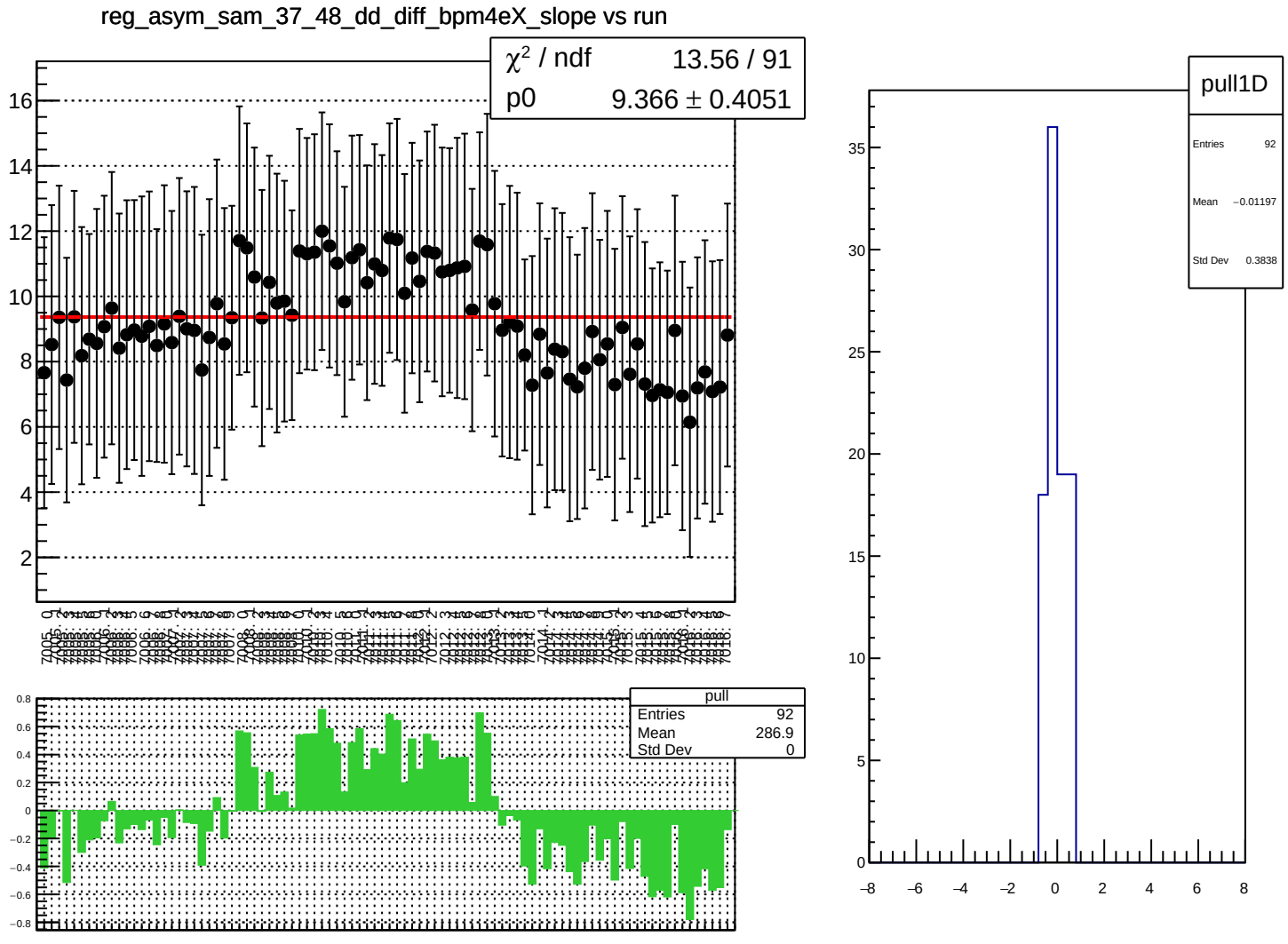

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.66 / 91
p0 −40.51 ± 0.4367
pull
Entries 92
Mean −277.1
Std Dev 0
pull1D
Entries 92
Mean −0.0161
Std Dev 0.3399

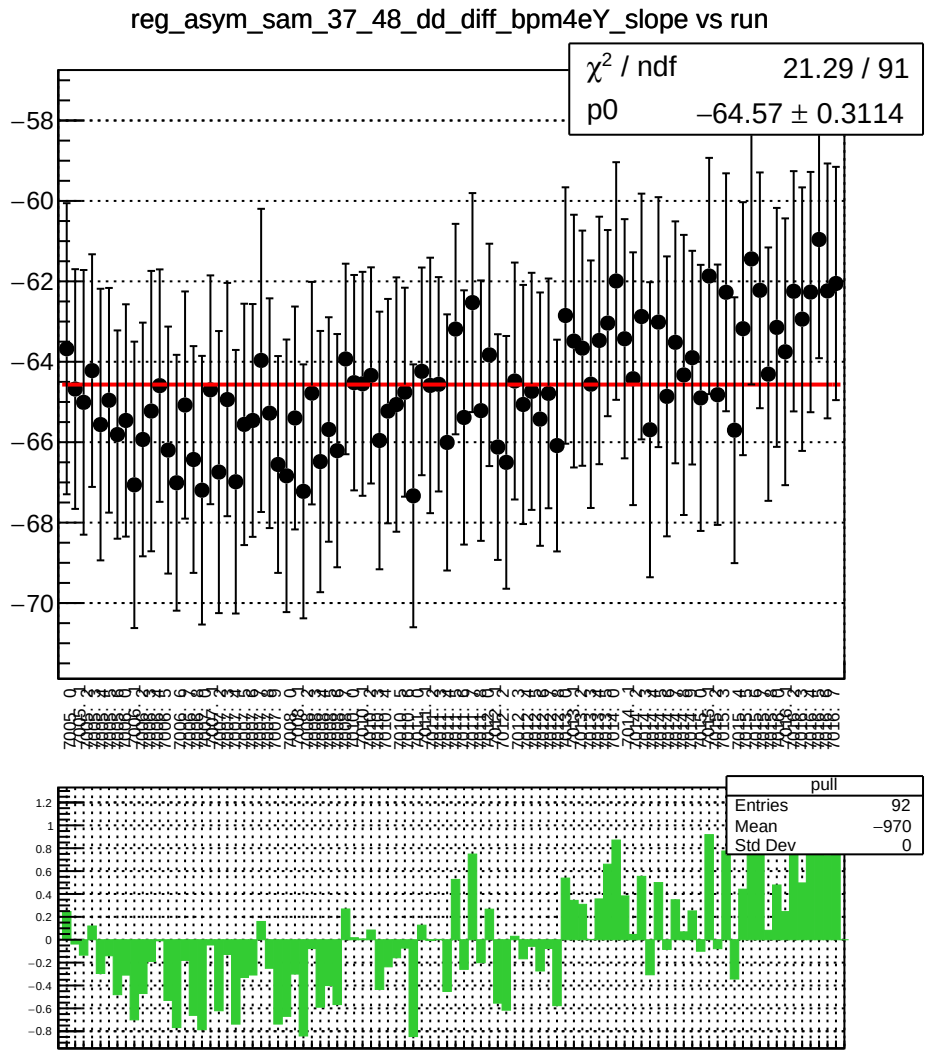

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 23.44 / 91
p0 0.117 ± 0.01976
pull
Entries 92
Mean −6197
Std Dev 0

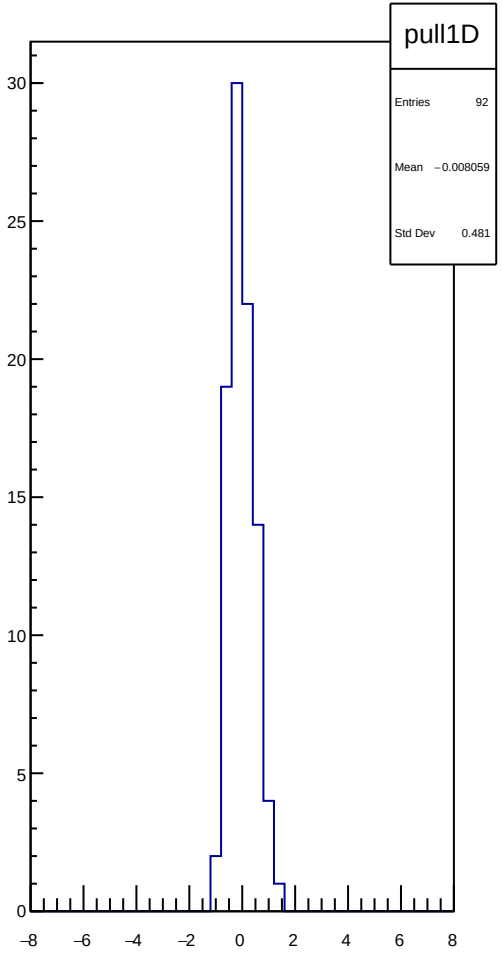

pull1D
Entries 92
Mean −0.00189
Std Dev 0.5048

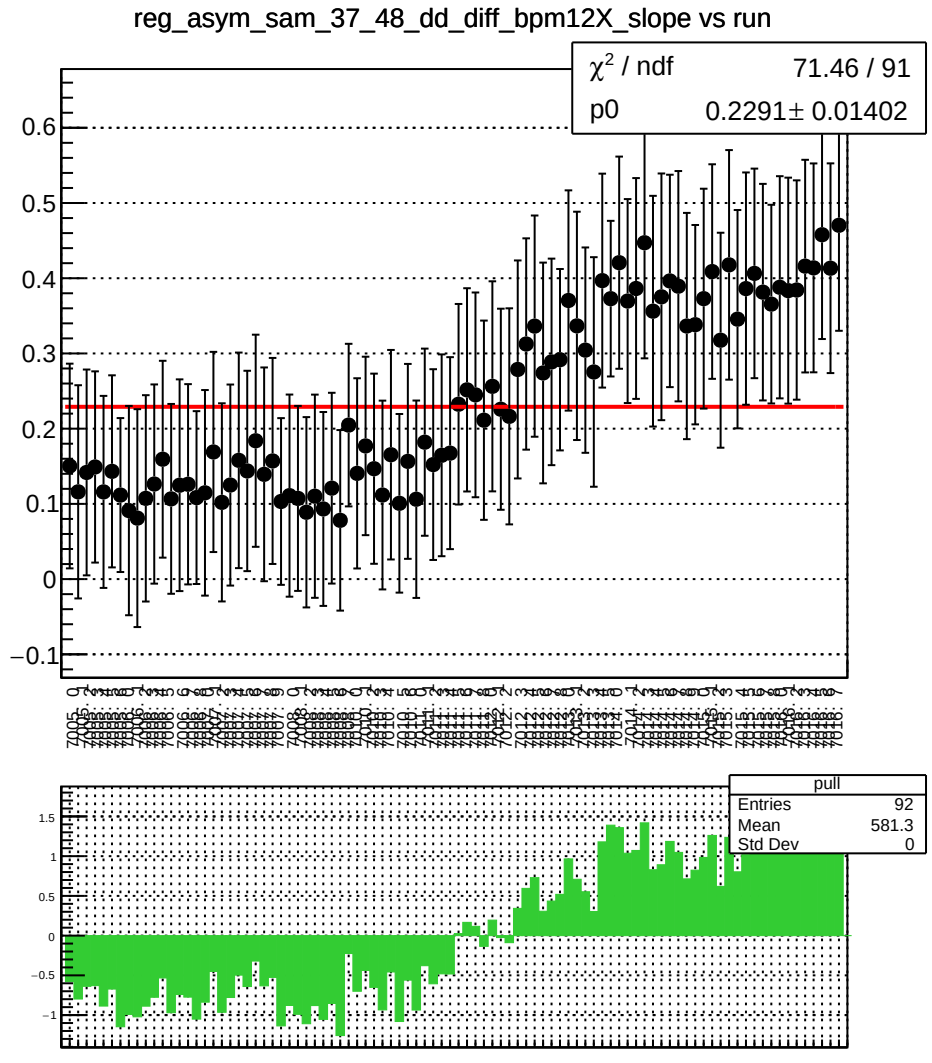

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 13.7 / 91
p0 5.946 ± 0.4375
pull
Entries 92
Mean 329.2
Std Dev 0
pull1D
Entries 92
Mean 0.01275
Std Dev 0.3857

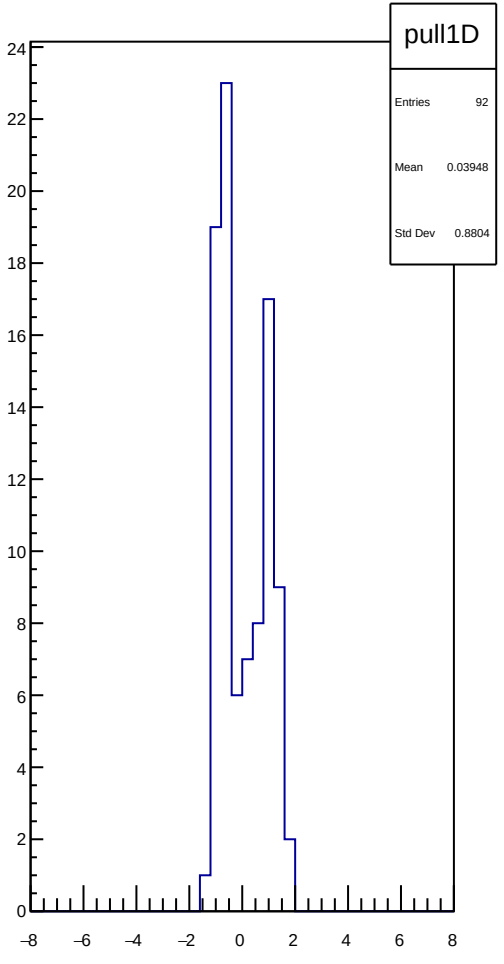

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.294 / 91
p0 9.178 ± 0.2968
pull
Entries 92
Mean −1446
Std Dev 0
pull1D
Entries 92
Mean 0.002949
Std Dev 0.2816

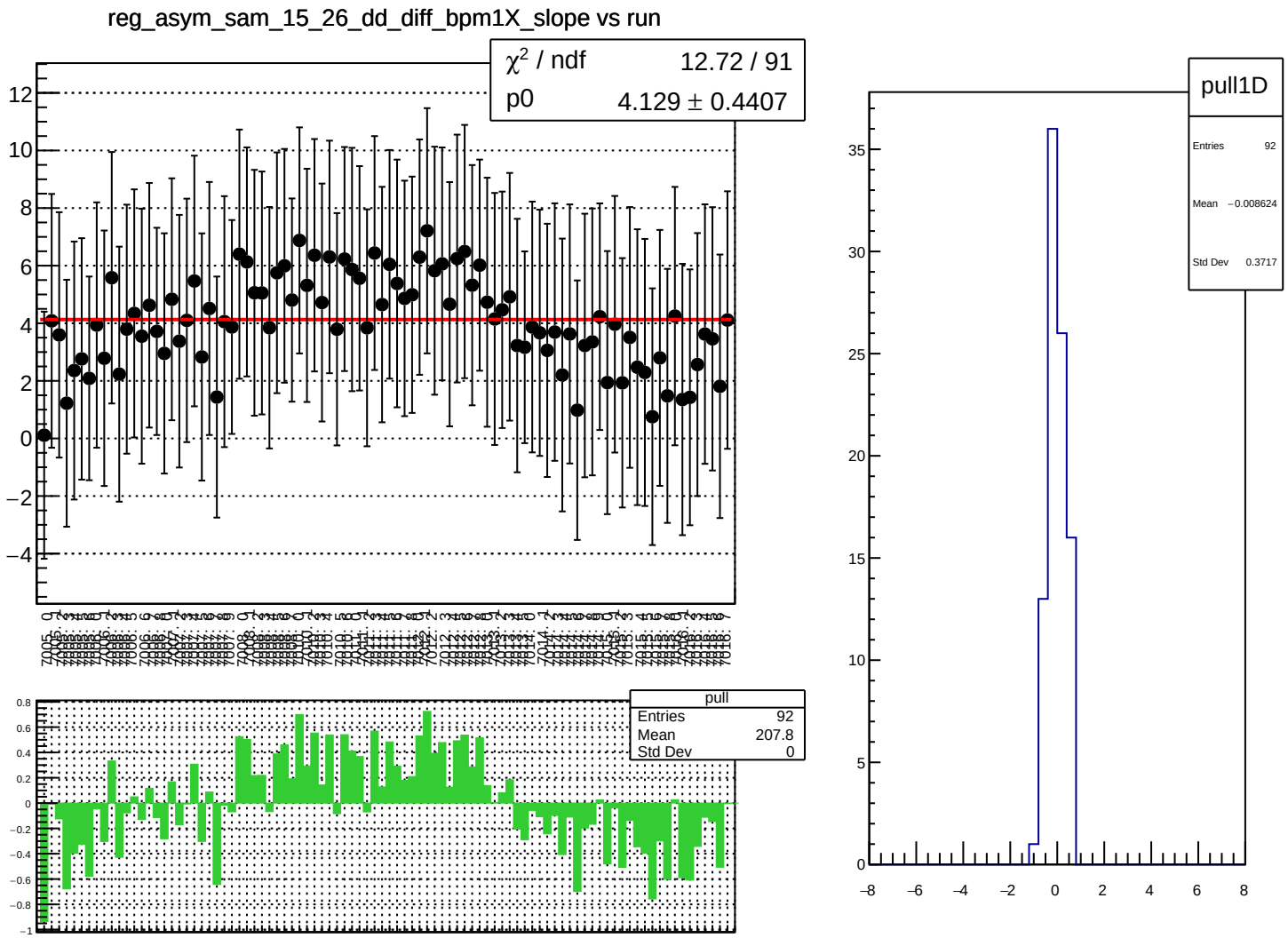

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.56 / 91
p0 9.366 ± 0.4051
pull
Entries 92
Mean 286.9
Std Dev 0
pull1D
Entries 92
Mean −0.01197
Std Dev 0.3838

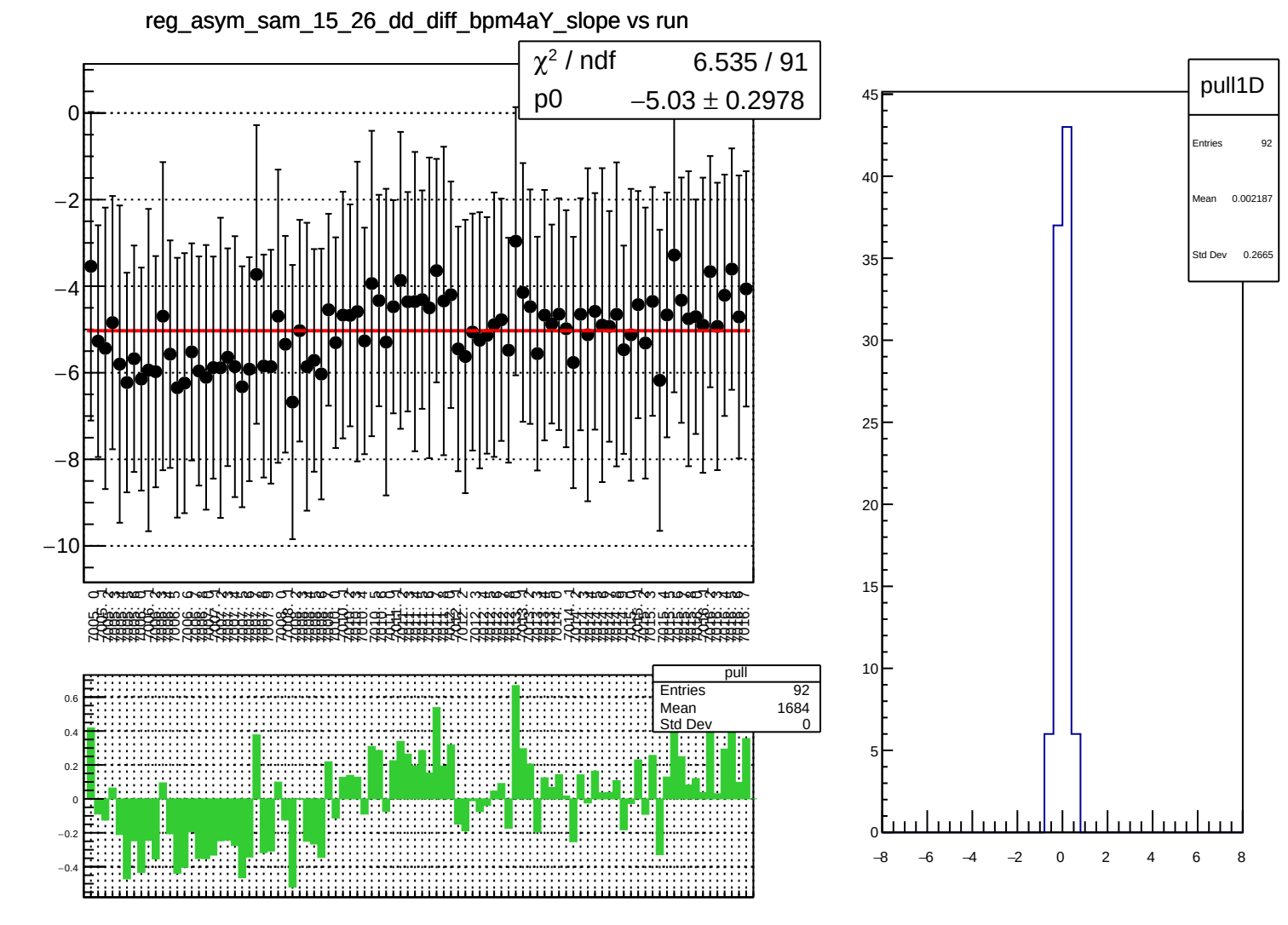

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.29 / 91
p0 −64.57 ± 0.3114
pull
Entries 92
Mean −970
Std Dev 0

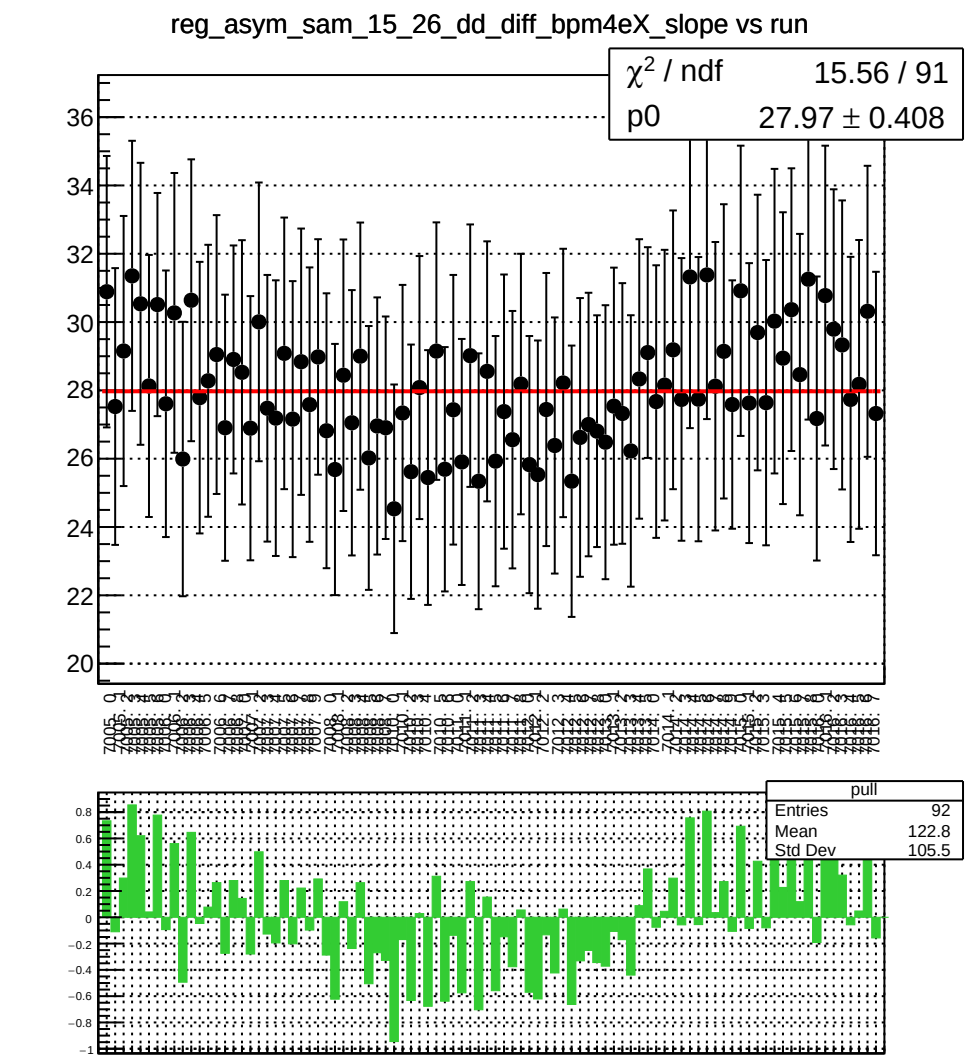

pull1D
Entries 92
Mean −0.008059
Std Dev 0.481

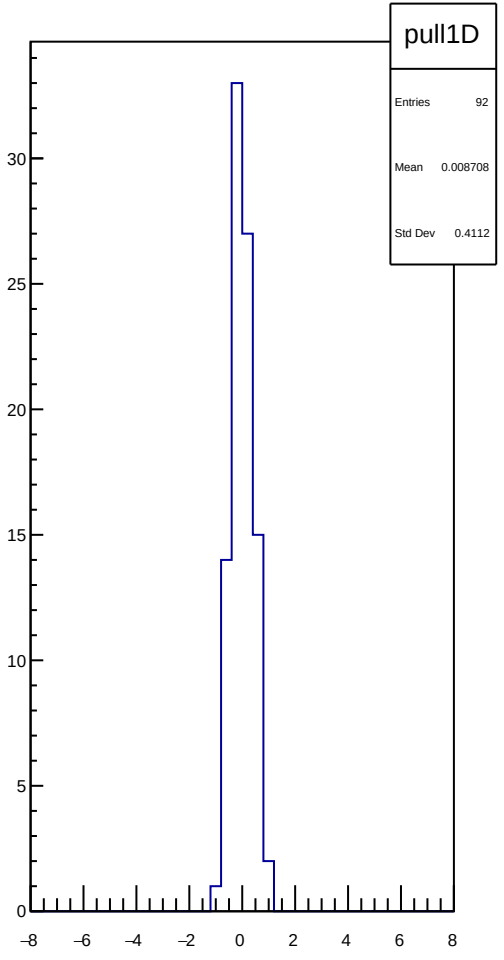

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 71.46 / 91
p0 0.2291± 0.01402
pull
Entries 92
Mean 581.3
Std Dev 0

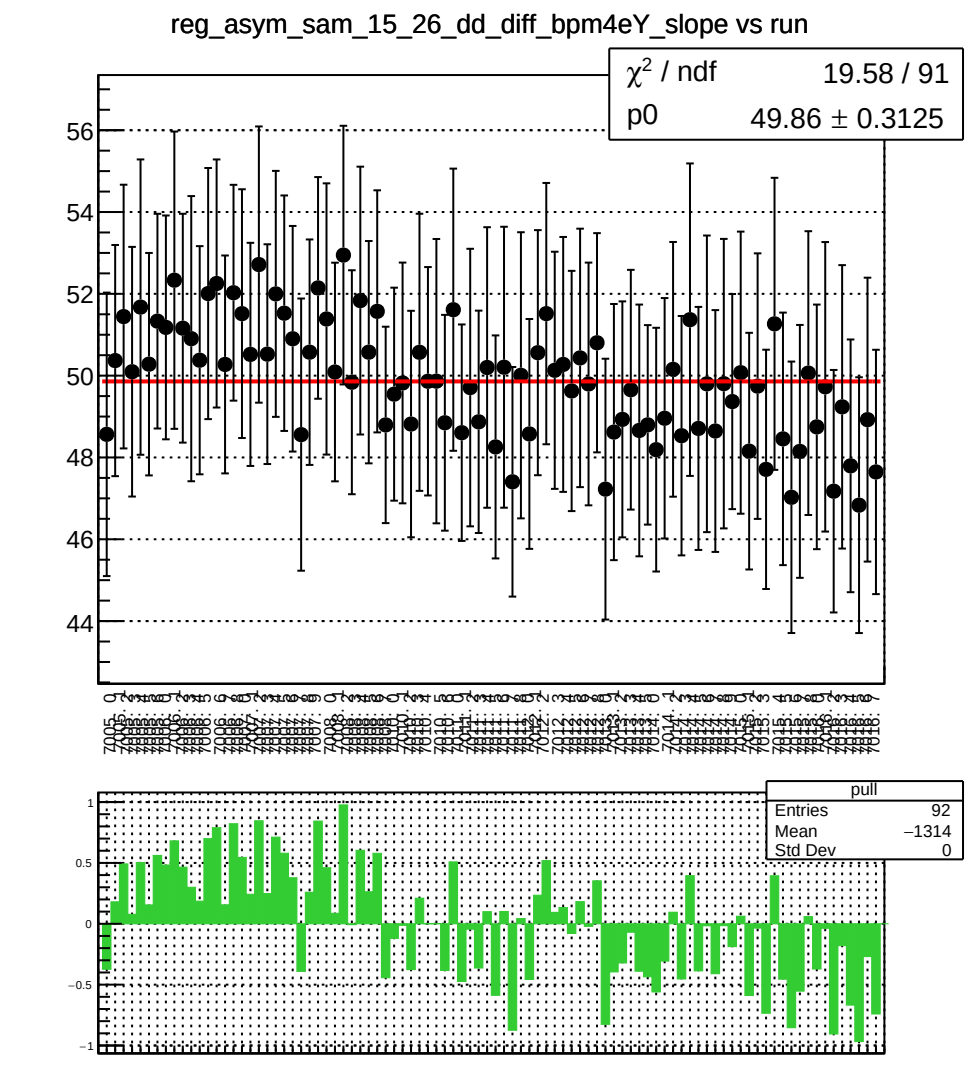

pull1D
Entries 92
Mean 0.03948
Std Dev 0.8804

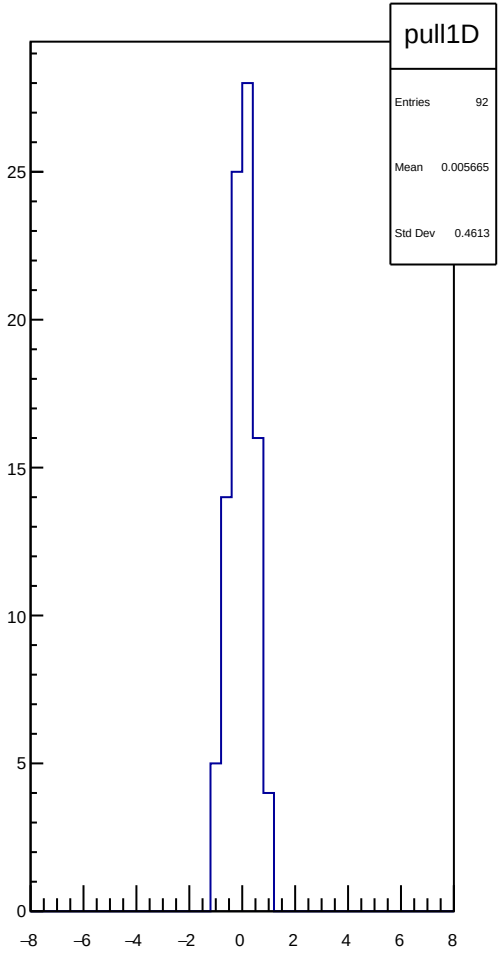

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 12.72 / 91
p0 4.129 ± 0.4407
pull
Entries 92
Mean 207.8
Std Dev 0
pull1D
Entries 92
Mean −0.008624
Std Dev 0.3717

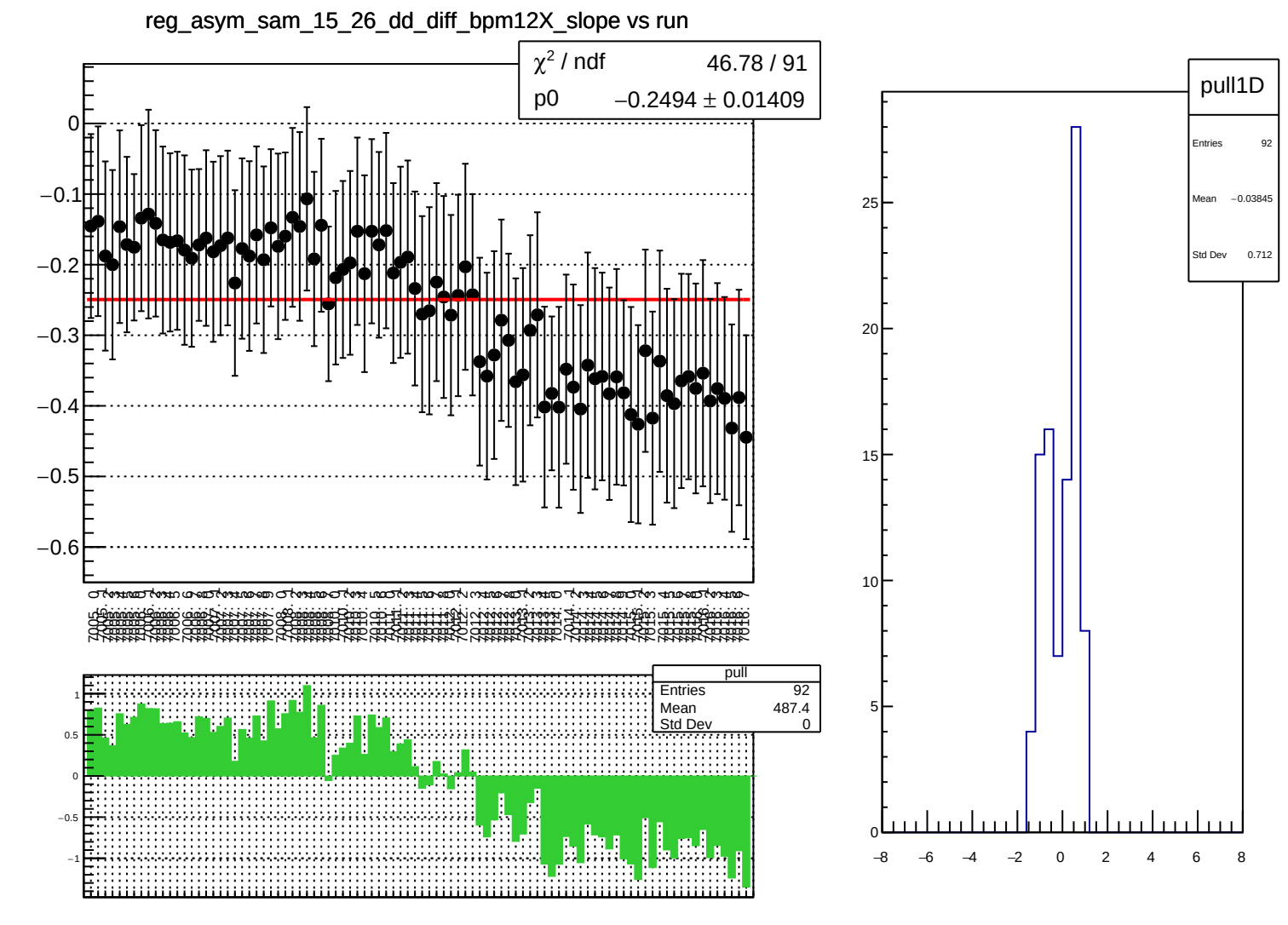

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.535 / 91
p0 −5.03 ± 0.2978
pull
Entries 92
Mean 1684
Std Dev 0
pull1D
Entries 92
Mean 0.002187
Std Dev 0.2665

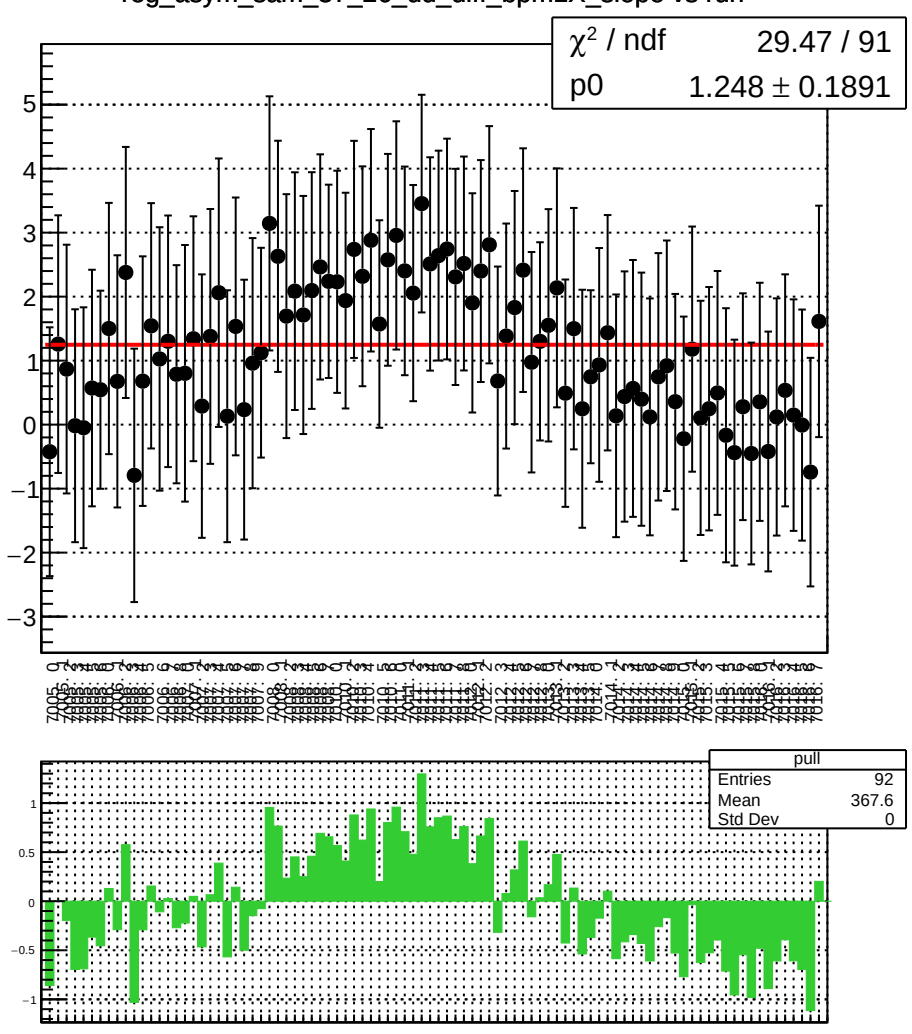

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.56 / 91
p0 27.97 ± 0.408
pull
Entries 92
Mean 122.8
Std Dev 105.5

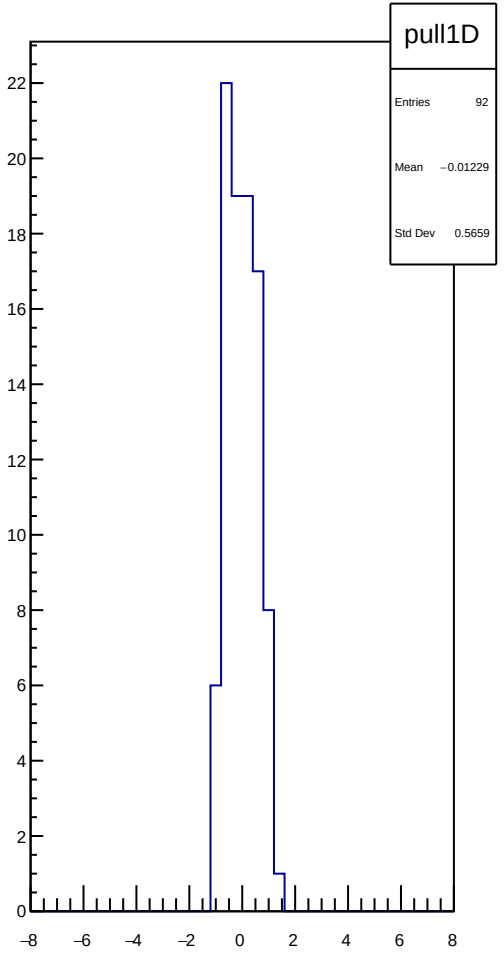

pull1D
Entries 92
Mean 0.008708
Std Dev 0.4112

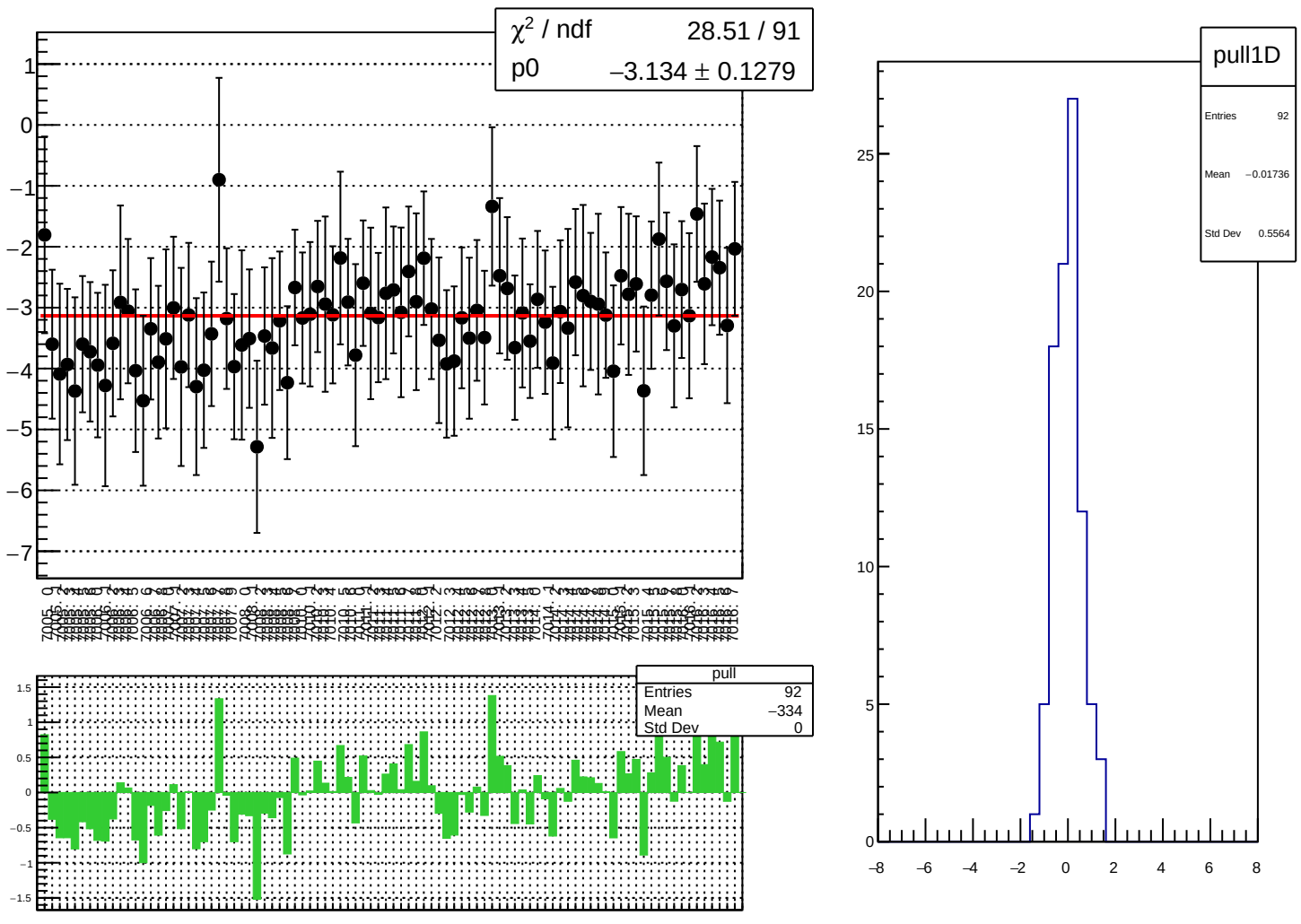

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.58 / 91
p0 49.86 ± 0.3125
pull
Entries 92
Mean −1314
Std Dev 0

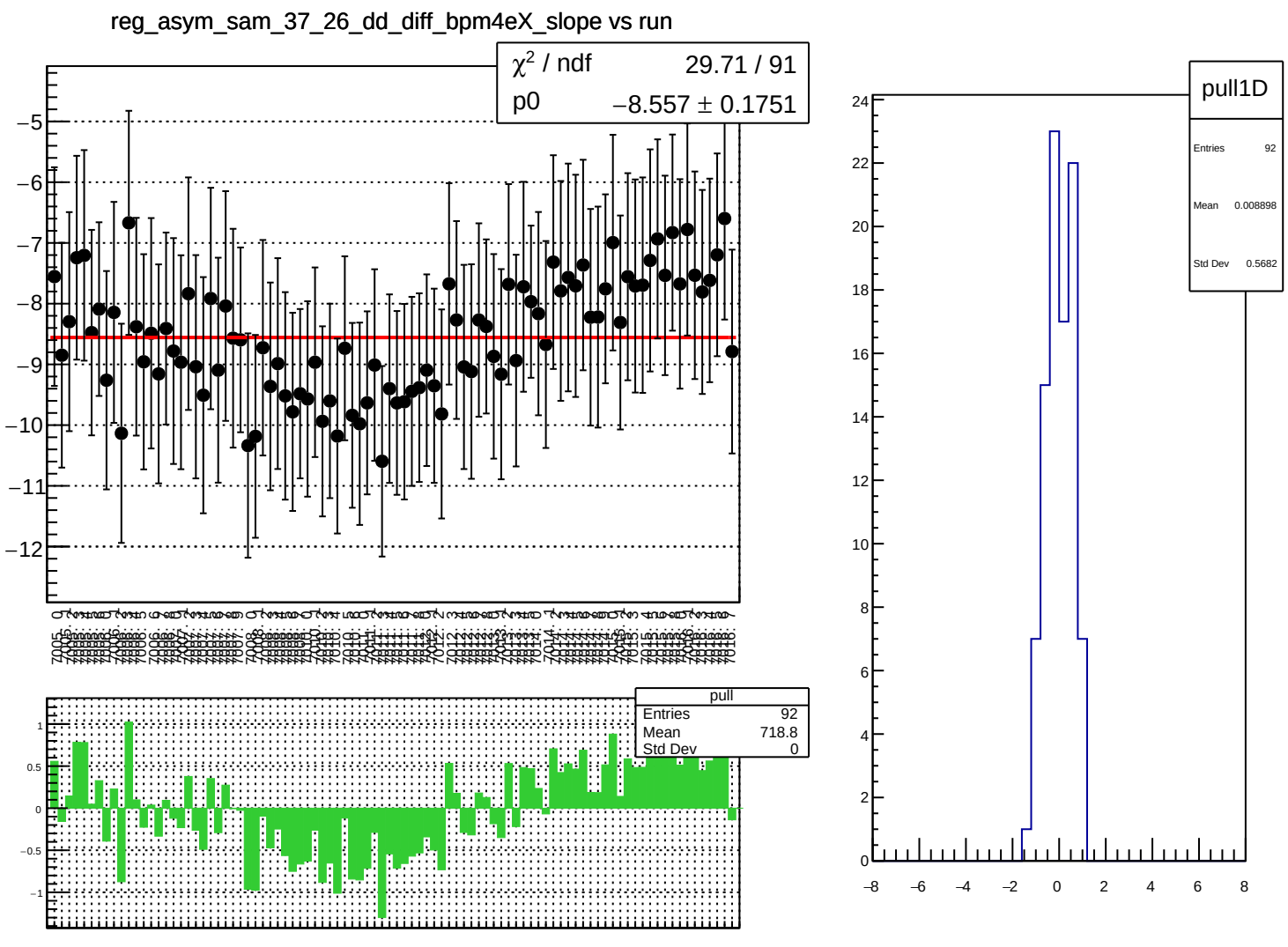

pull1D
Entries 92
Mean 0.005665
Std Dev 0.4613

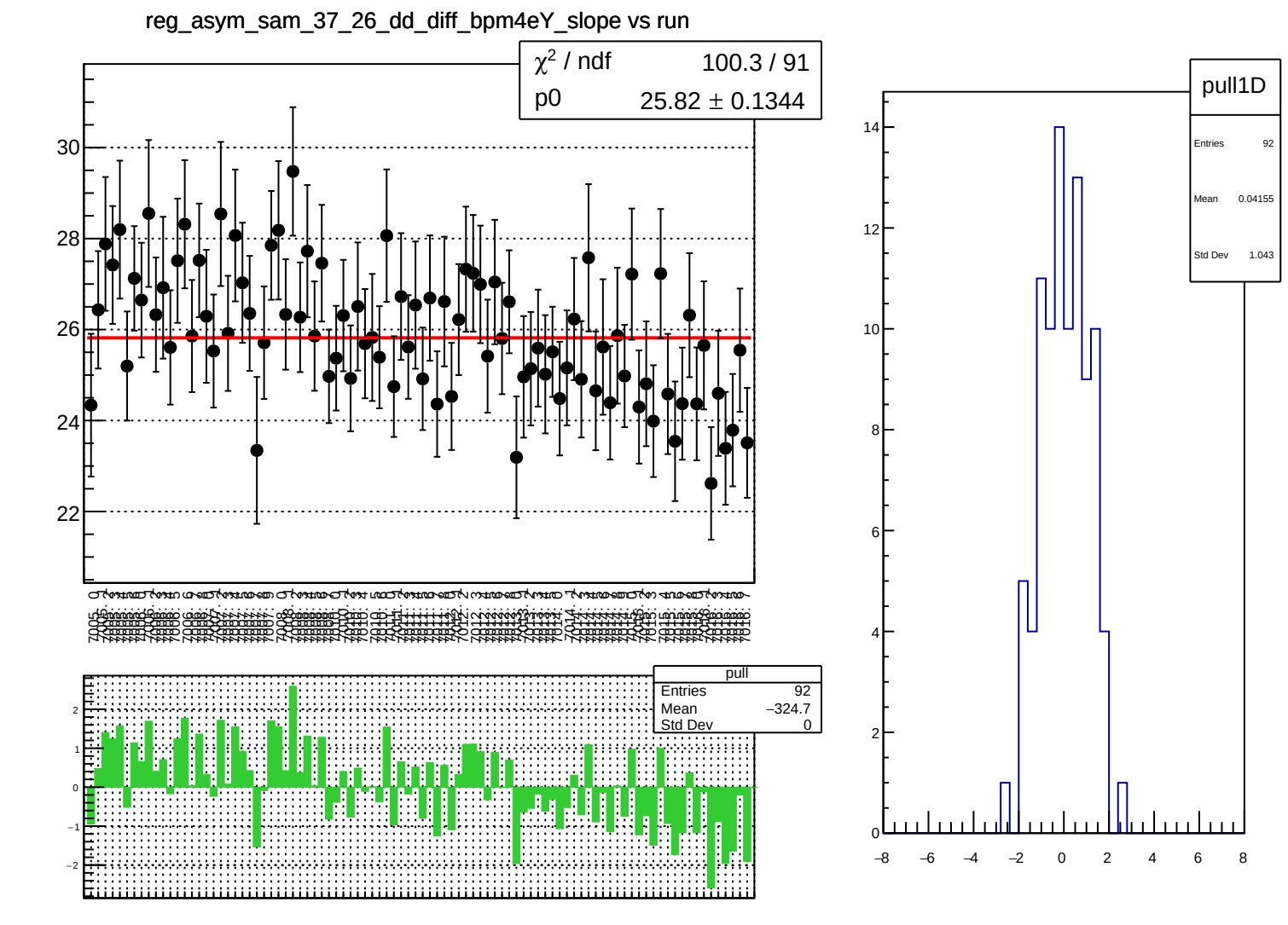

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 46.78 / 91
p0 −0.2494 ± 0.01409
pull
Entries 92
Mean 487.4
Std Dev 0
pull1D
Entries 92
Mean −0.03845
Std Dev 0.712

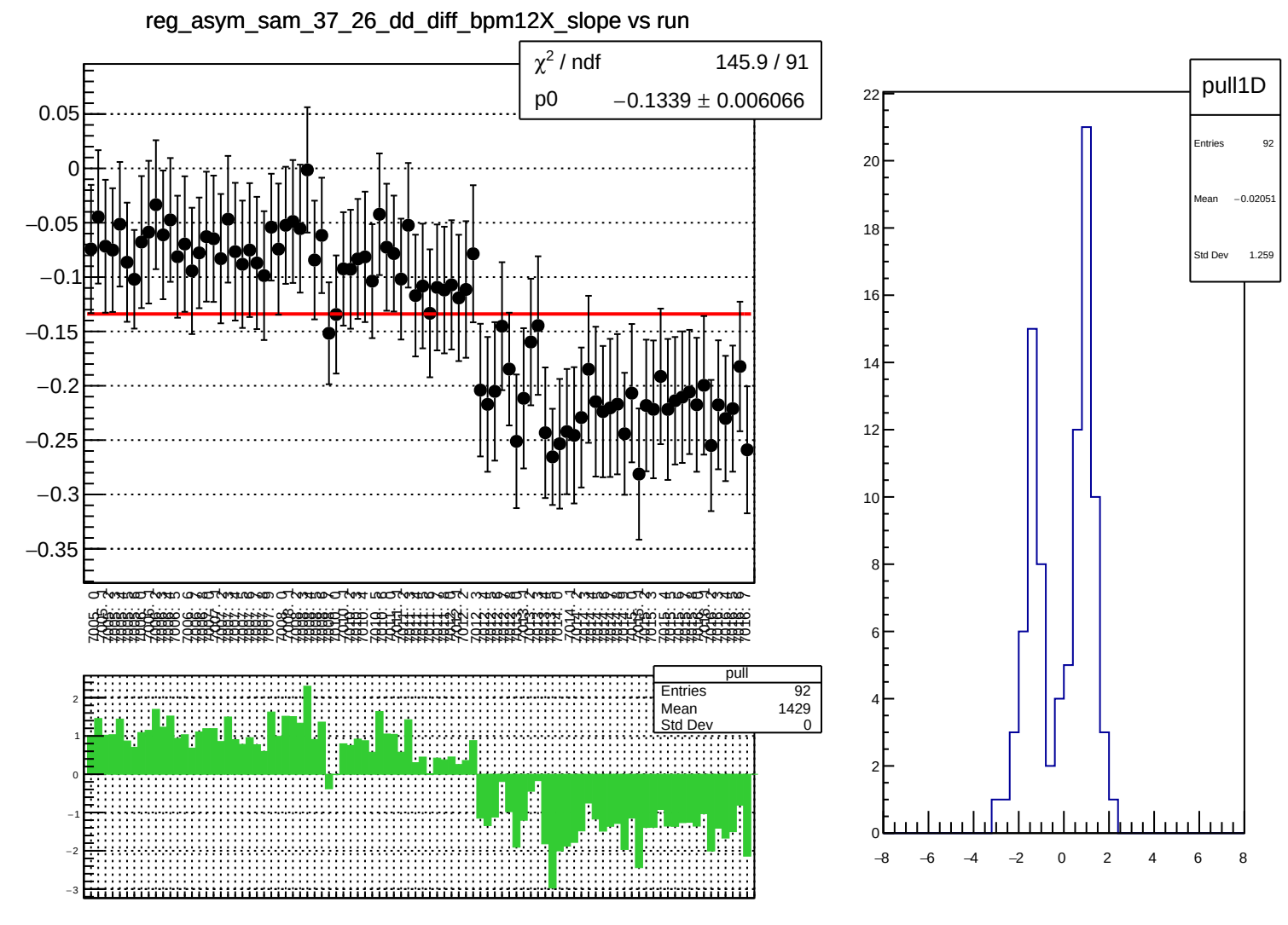

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 29.47 / 91
p0 1.248 ± 0.1891
pull
Entries 92
Mean 367.6
Std Dev 0

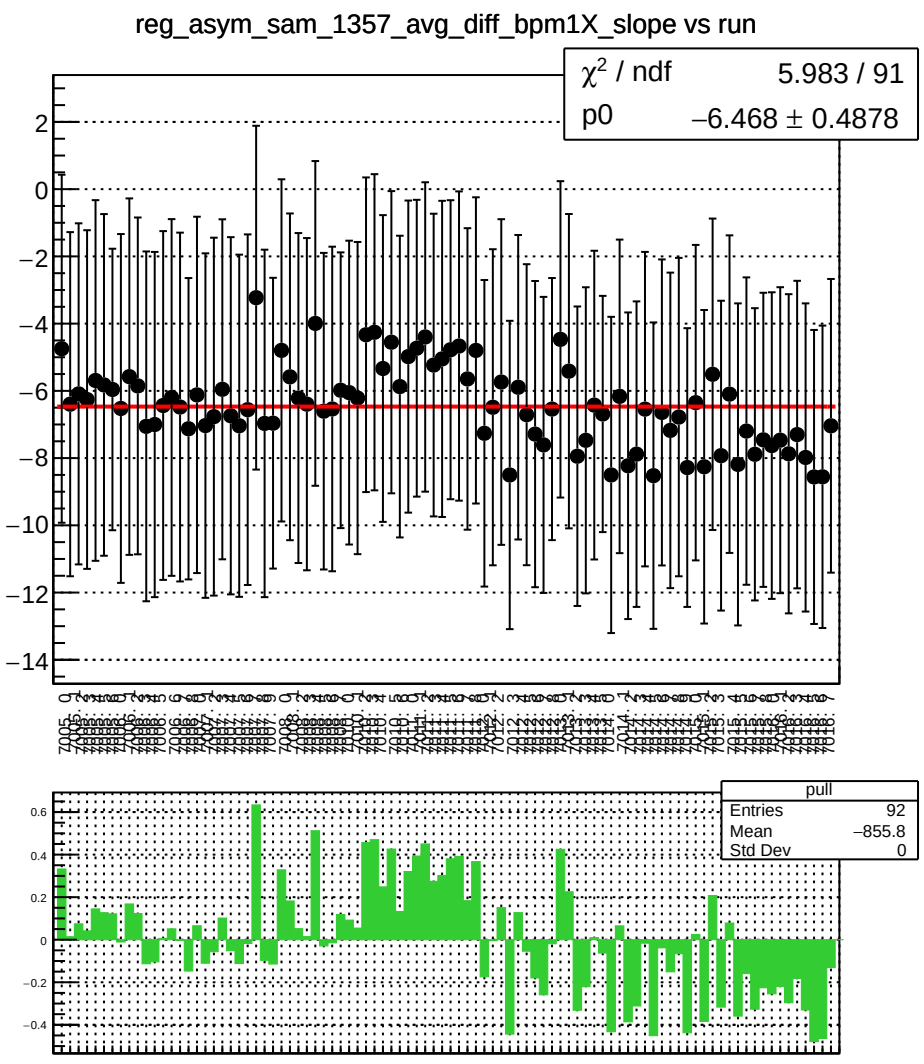

pull1D
Entries 92
Mean −0.01229
Std Dev 0.5659

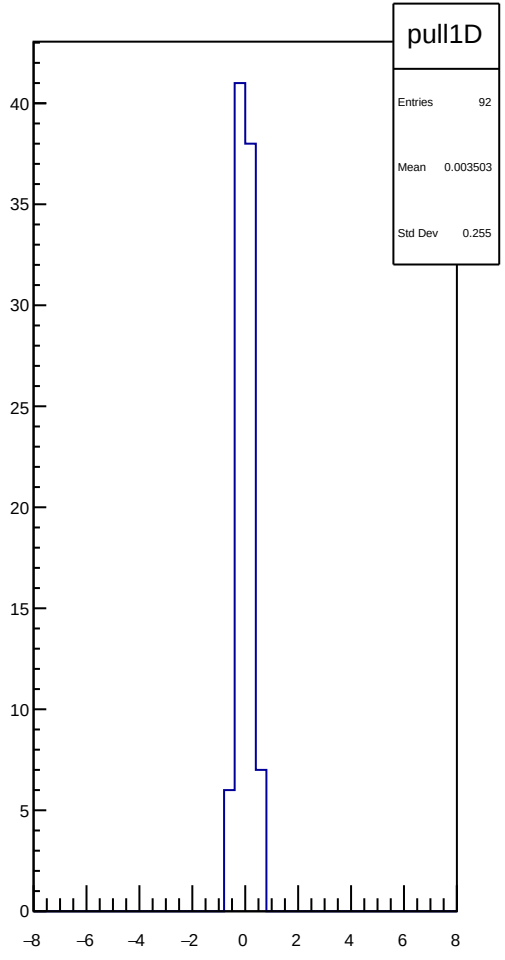

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.51 / 91
p0 −3.134 ± 0.1279
pull
Entries 92
Mean −334
Std Dev 0
pull1D
Entries 92
Mean −0.01736
Std Dev 0.5564

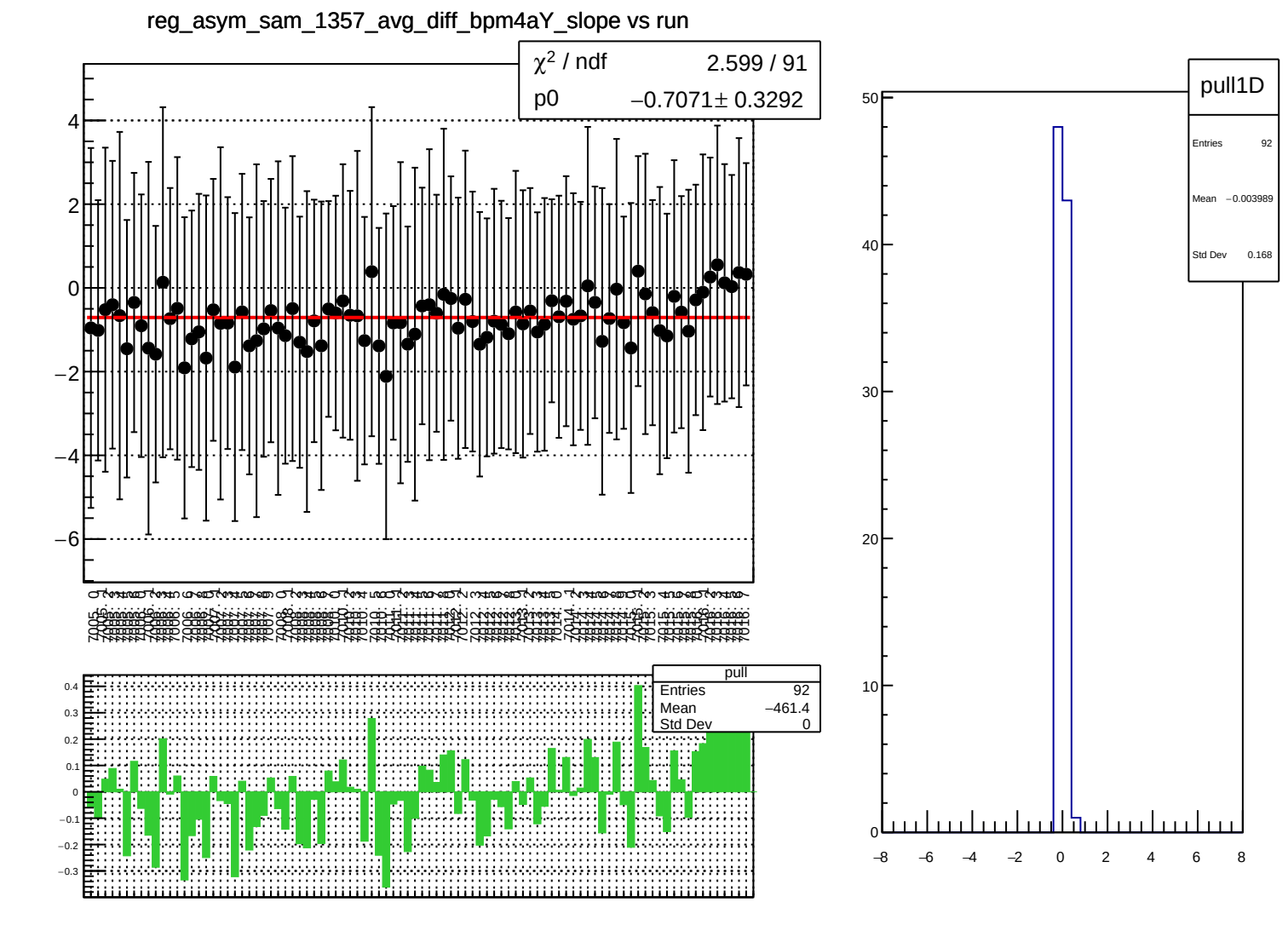

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.71 / 91
p0 −8.557 ± 0.1751
pull
Entries 92
Mean 718.8
Std Dev 0
pull1D
Entries 92
Mean 0.008898
Std Dev 0.5682

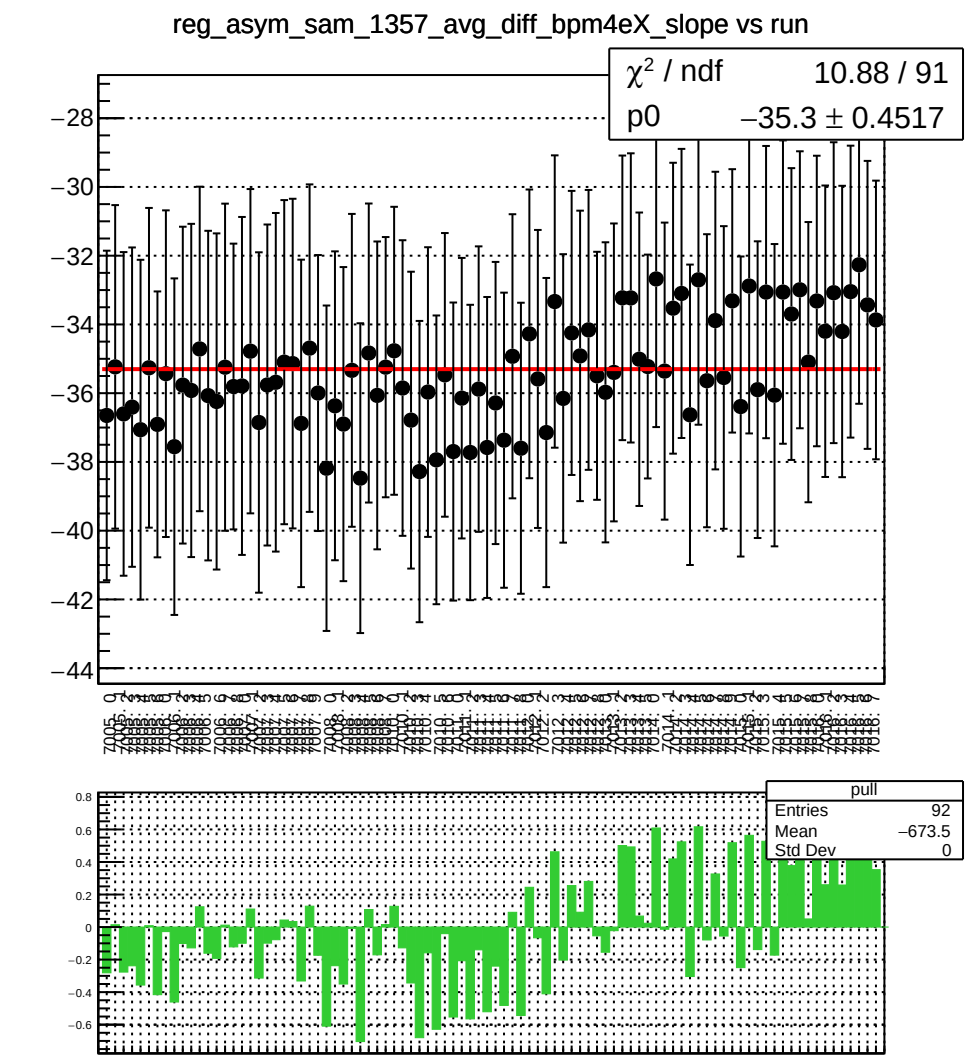

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 100.3 / 91
p0 25.82 ± 0.1344
30
28
26
24
22
pull
Entries 92
Mean −324.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.04155
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

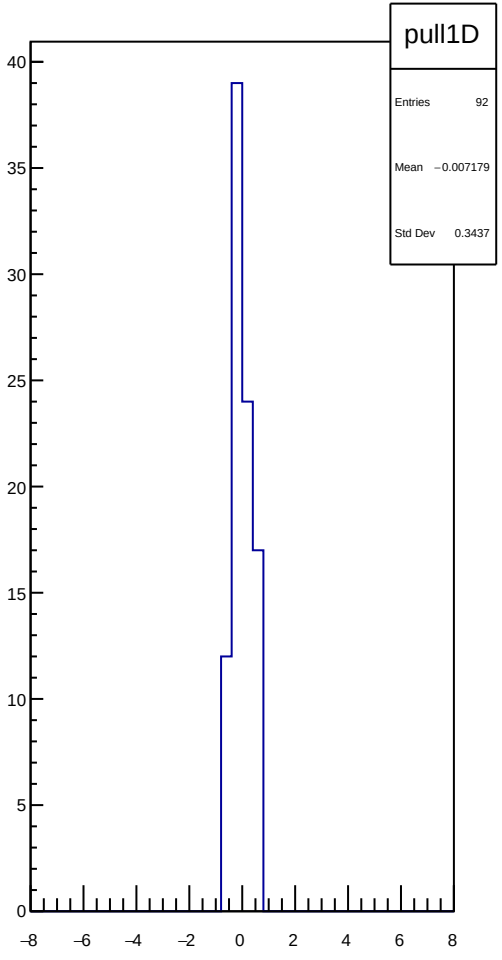

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 145.9 / 91
p0 −0.1339 ± 0.006066
pull
Entries 92
Mean 1429
Std Dev 0
pull1D
Entries 92
Mean −0.02051
Std Dev 1.259

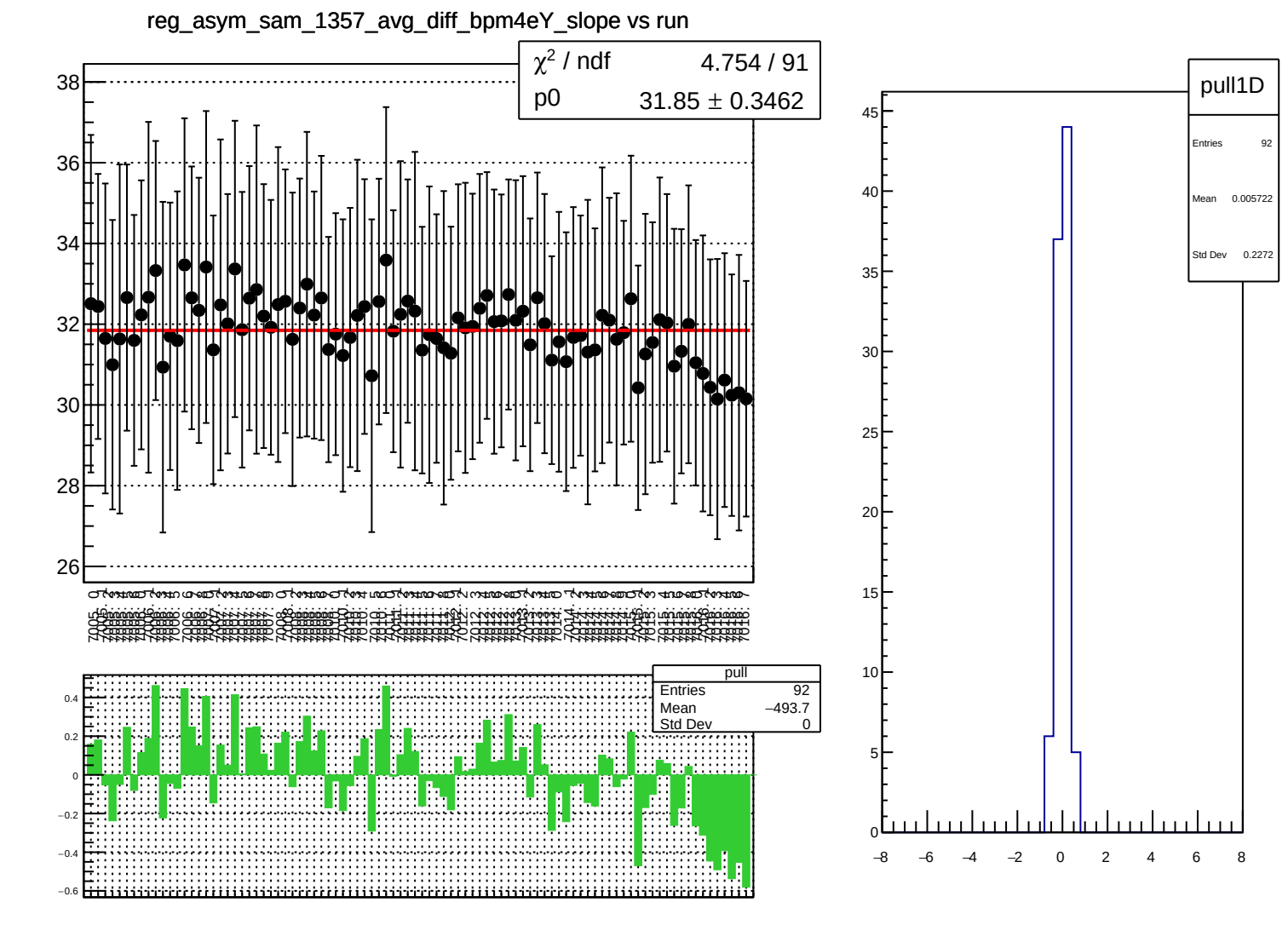

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 5.983 / 91
p0 −6.468 ± 0.4878
pull
Entries 92
Mean −855.8
Std Dev 0

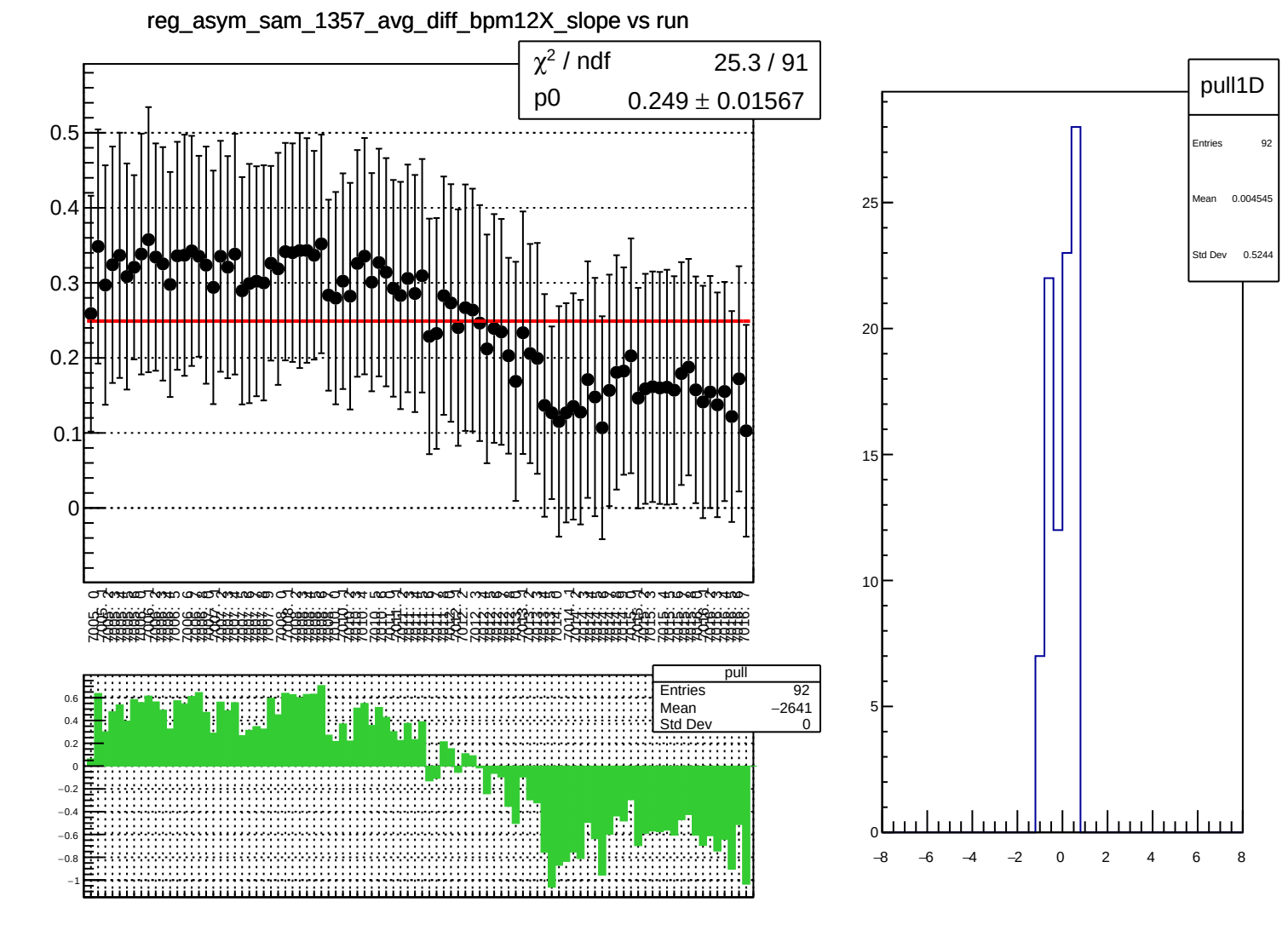

pull1D
Entries 92
Mean 0.003503
Std Dev 0.255

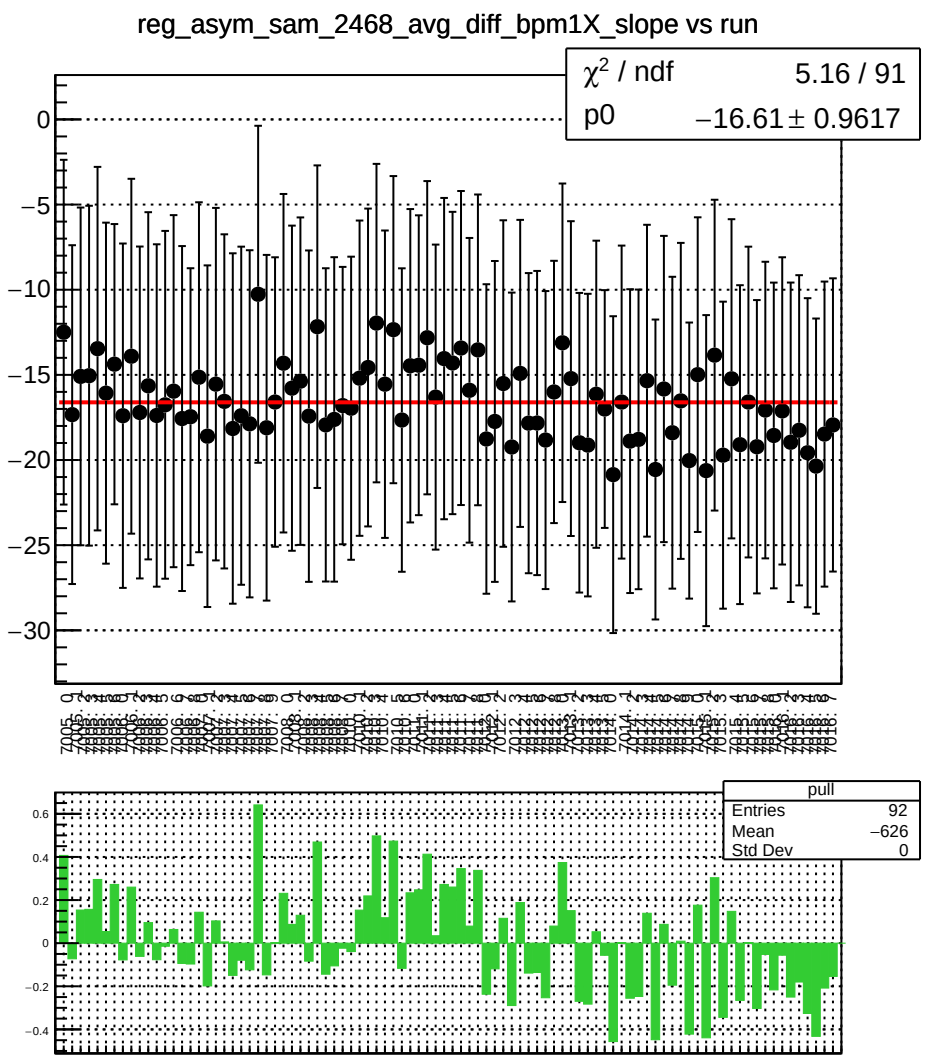

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.599 / 91
p0 −0.7071± 0.3292
pull
Entries 92
Mean −461.4
Std Dev 0
pull1D
Entries 92
Mean −0.003989
Std Dev 0.168

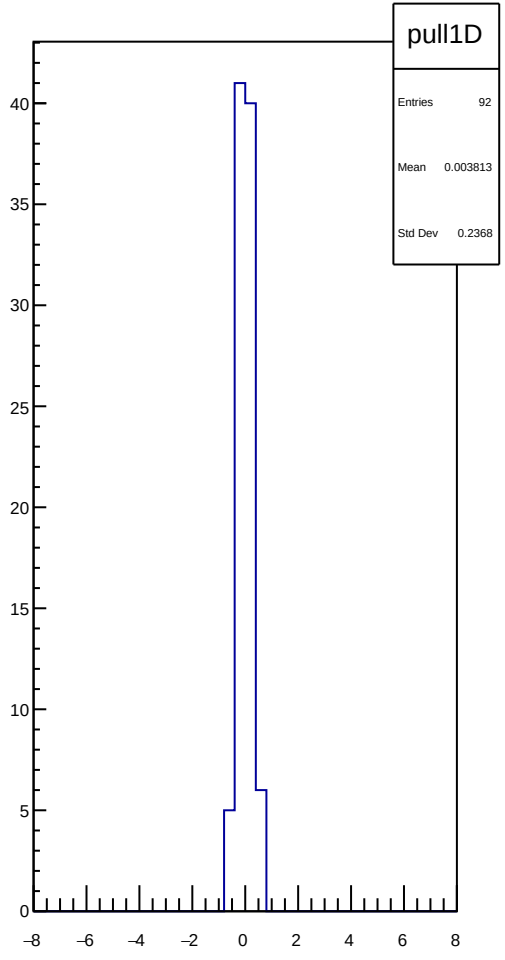

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.88 / 91
p0 −35.3 ± 0.4517
pull
Entries 92
Mean −673.5
Std Dev 0

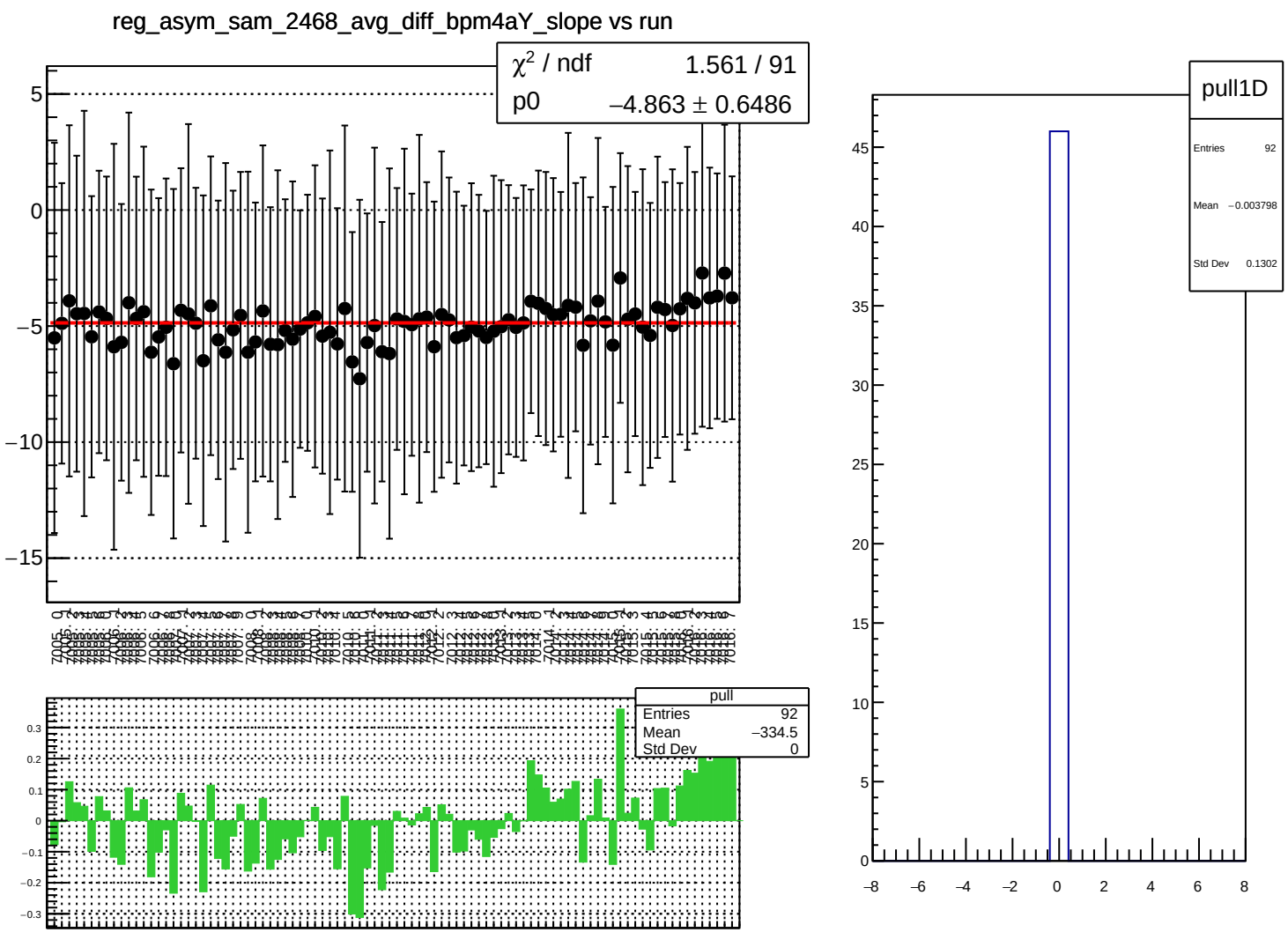

pull1D
Entries 92
Mean −0.007179
Std Dev 0.3437

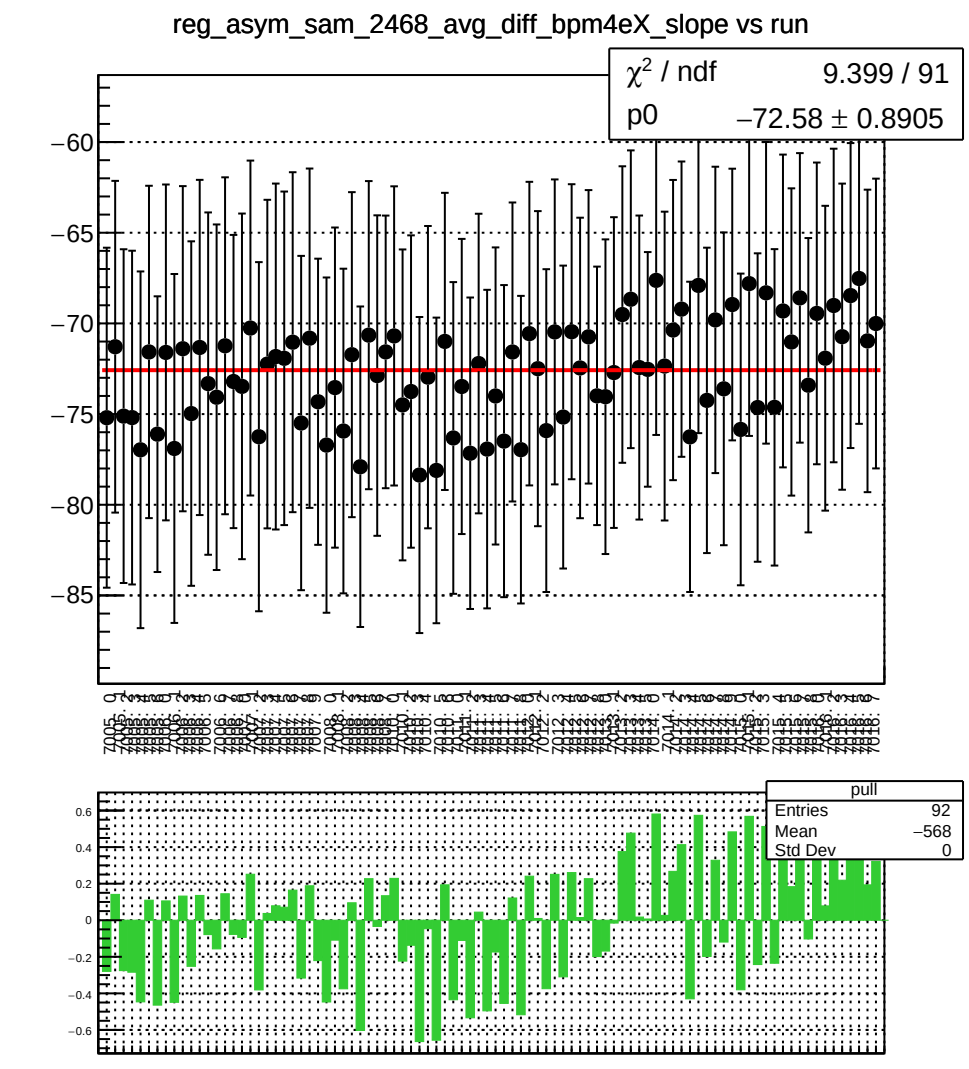

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.754 / 91
p0 31.85 ± 0.3462
pull
Entries 92
Mean −493.7
Std Dev 0
pull1D
Entries 92
Mean 0.005722
Std Dev 0.2272

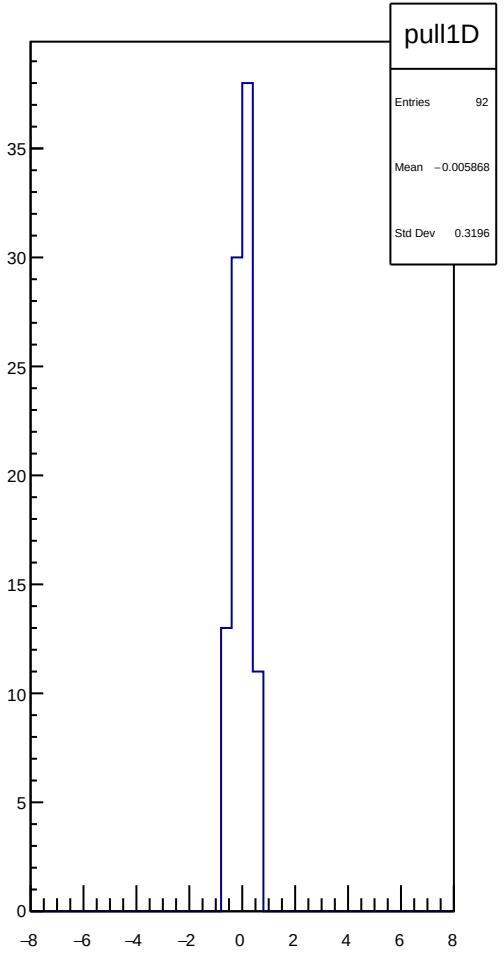

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 25.3 / 91
p0 0.249 ± 0.01567
pull
Entries 92
Mean −2641
Std Dev 0
pull1D
Entries 92
Mean 0.004545
Std Dev 0.5244

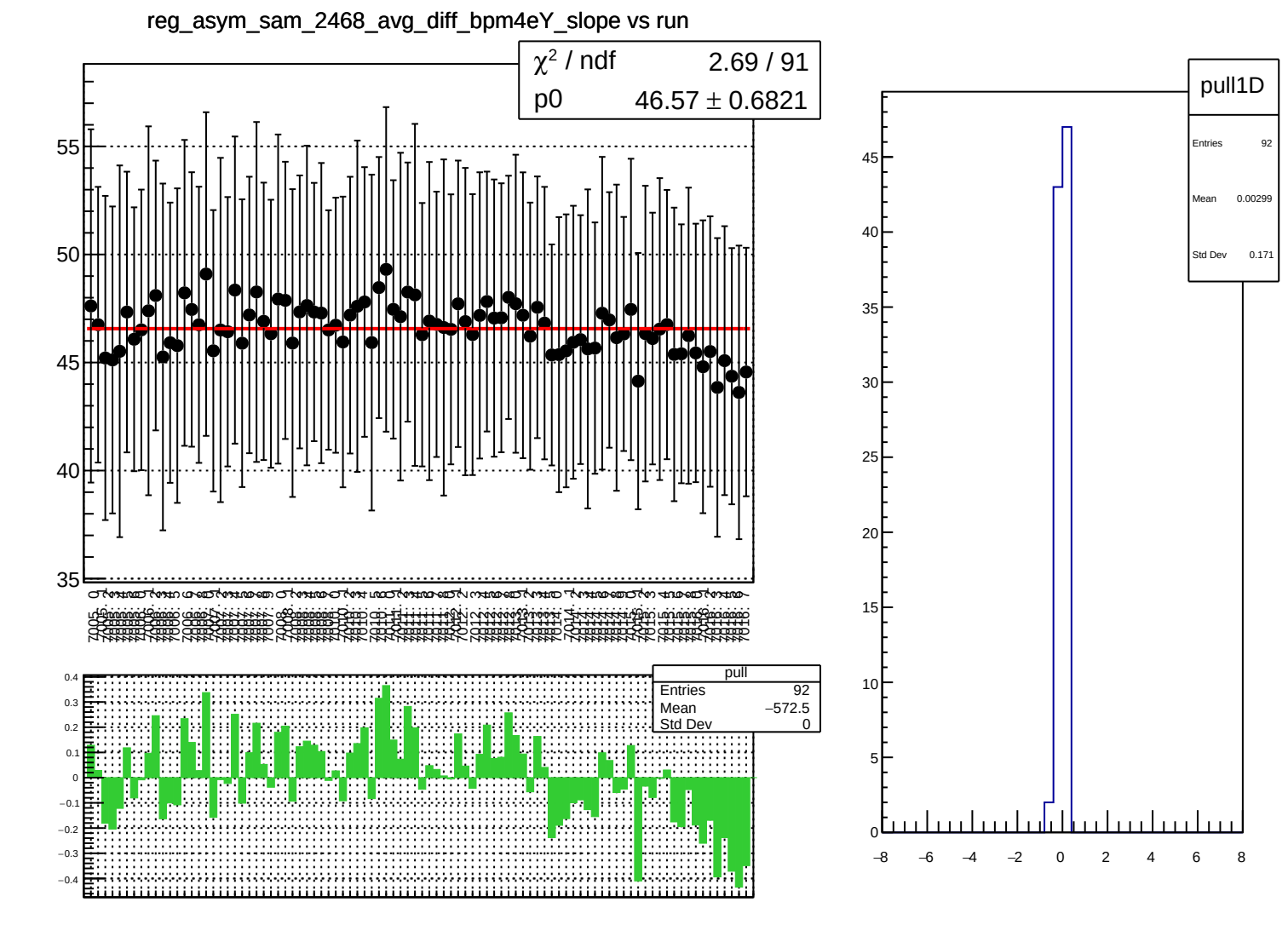

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 5.16 / 91
p0 −16.61 ± 0.9617
pull
Entries 92
Mean −626
Std Dev 0

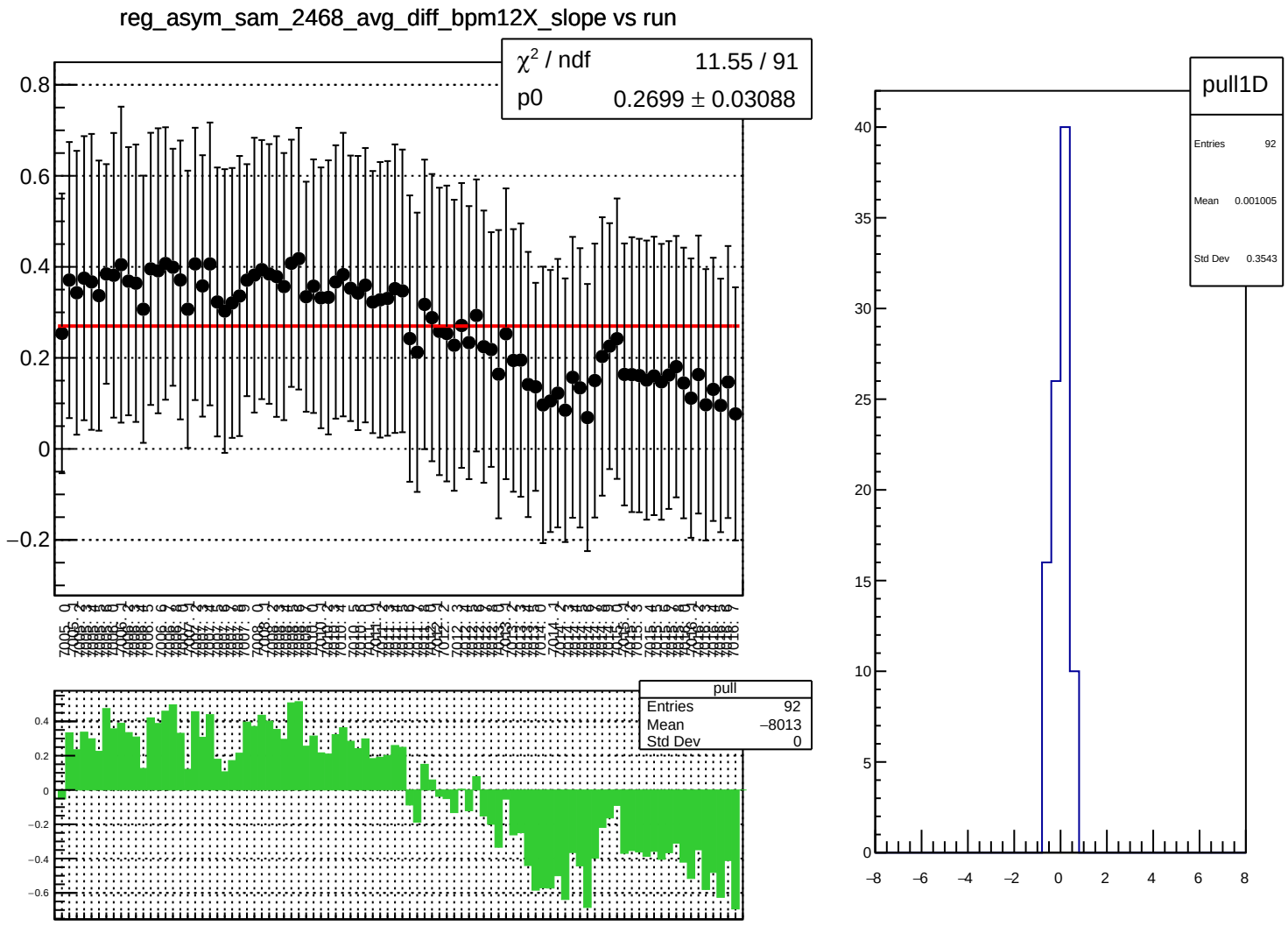

pull1D
Entries 92
Mean 0.003813
Std Dev 0.2368

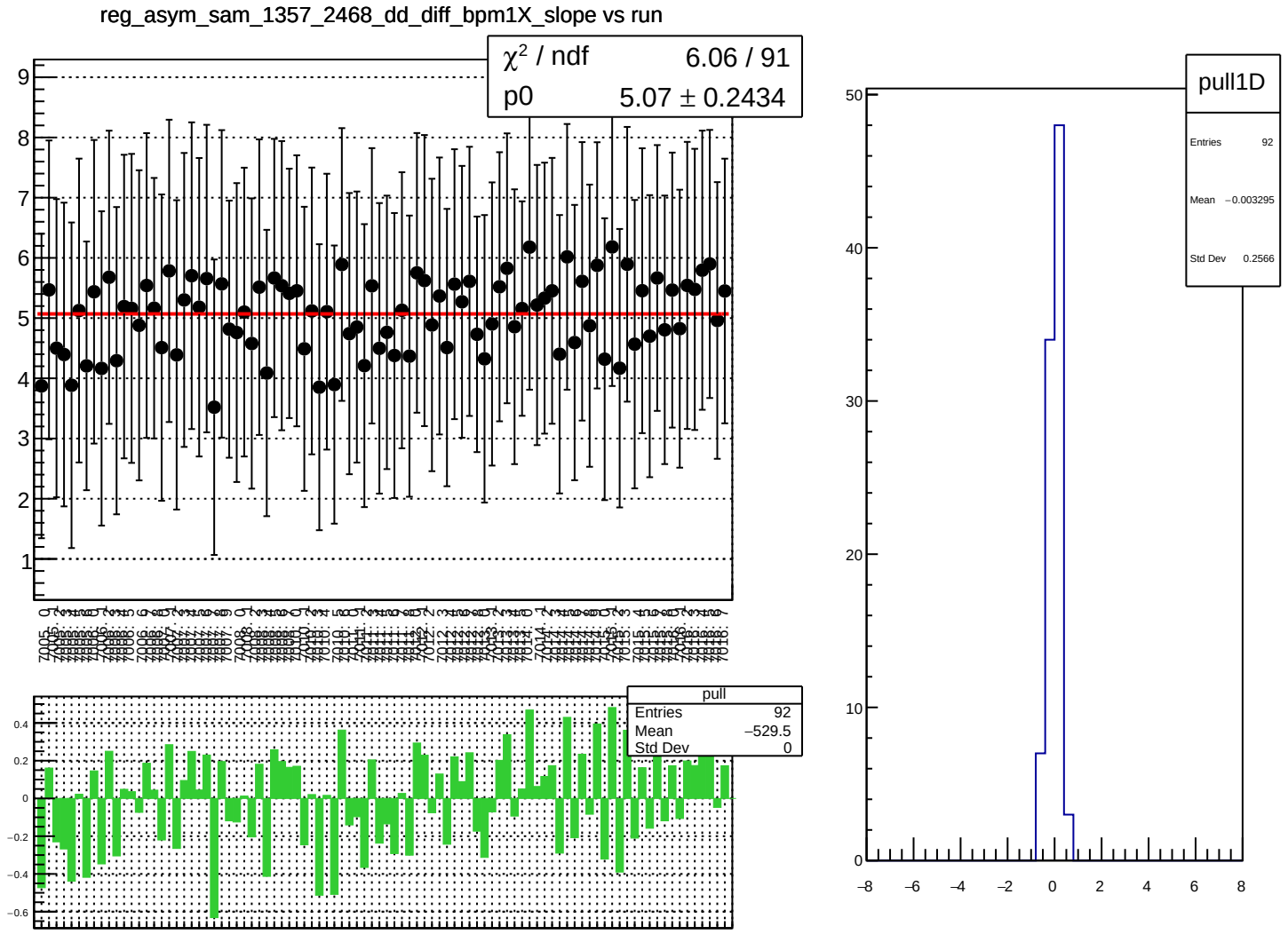

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.561 / 91
p0 −4.863 ± 0.6486
pull
Entries 92
Mean −334.5
Std Dev 0
pull1D
Entries 92
Mean −0.003798
Std Dev 0.1302

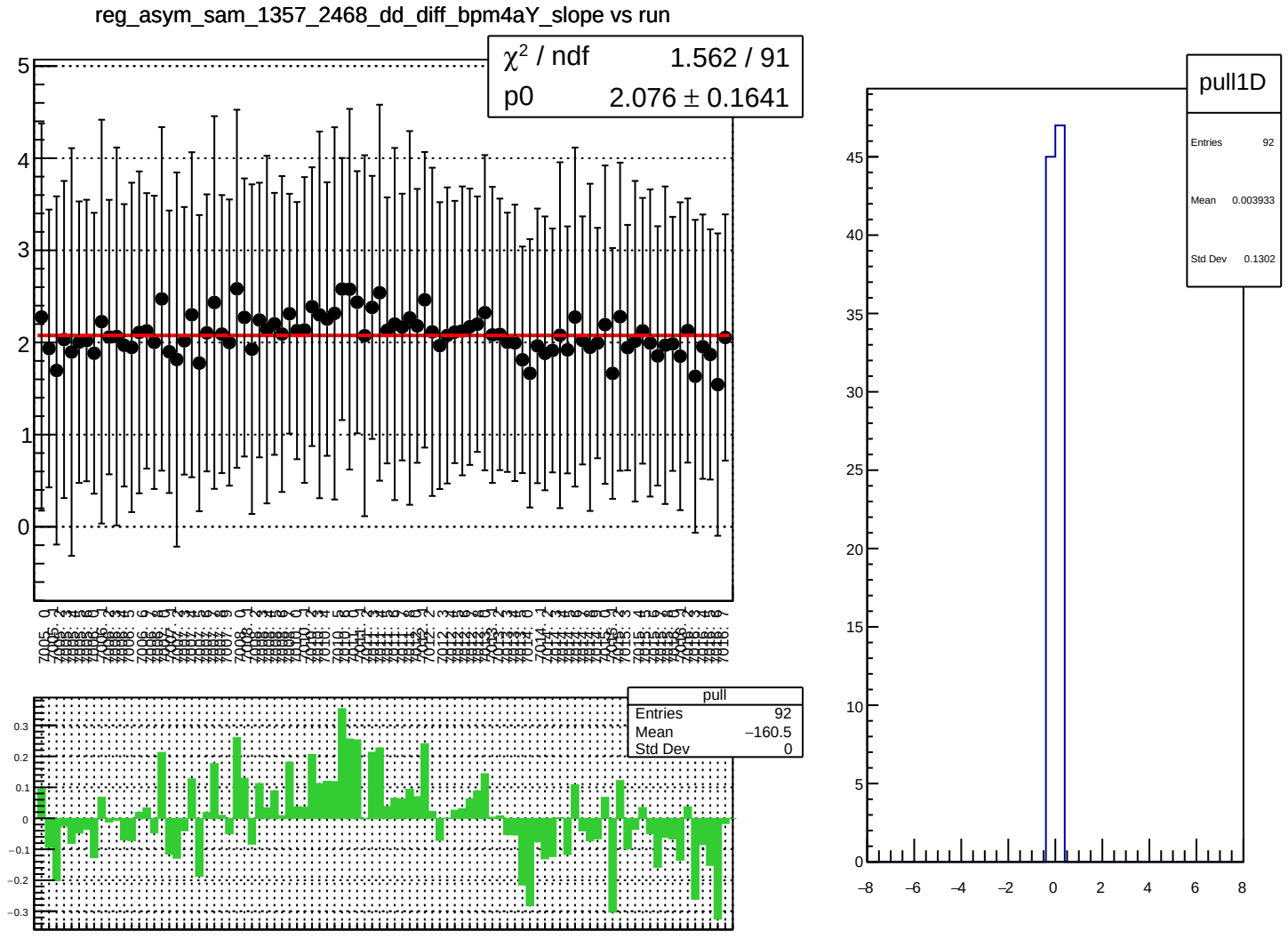

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.399 / 91
p0 −72.58 ± 0.8905
−60
−65
−70
−75
−80
−85
pull
Entries 92
Mean −568
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

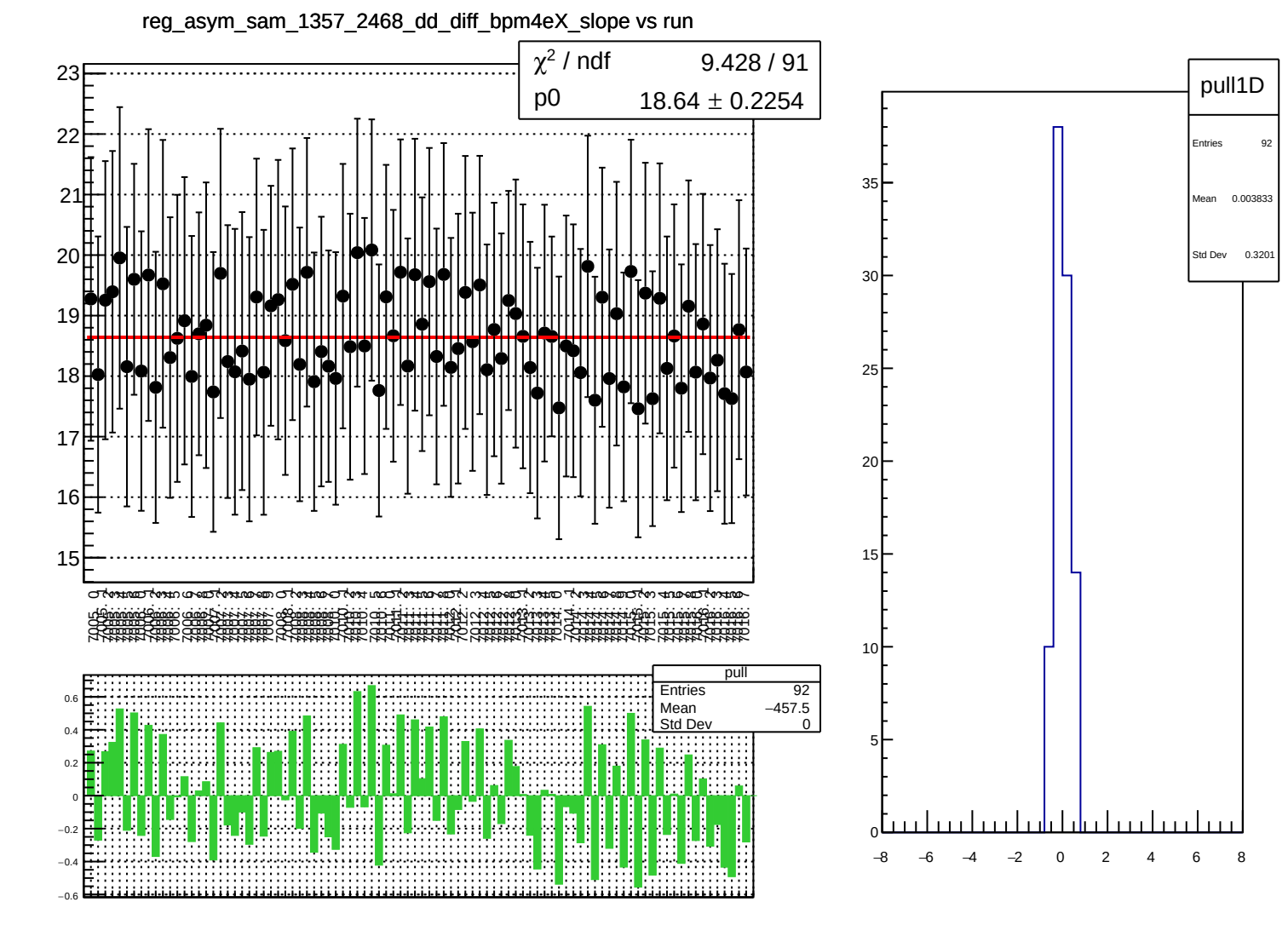

pull1D
Entries 92
Mean −0.005868
Std Dev 0.3196
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

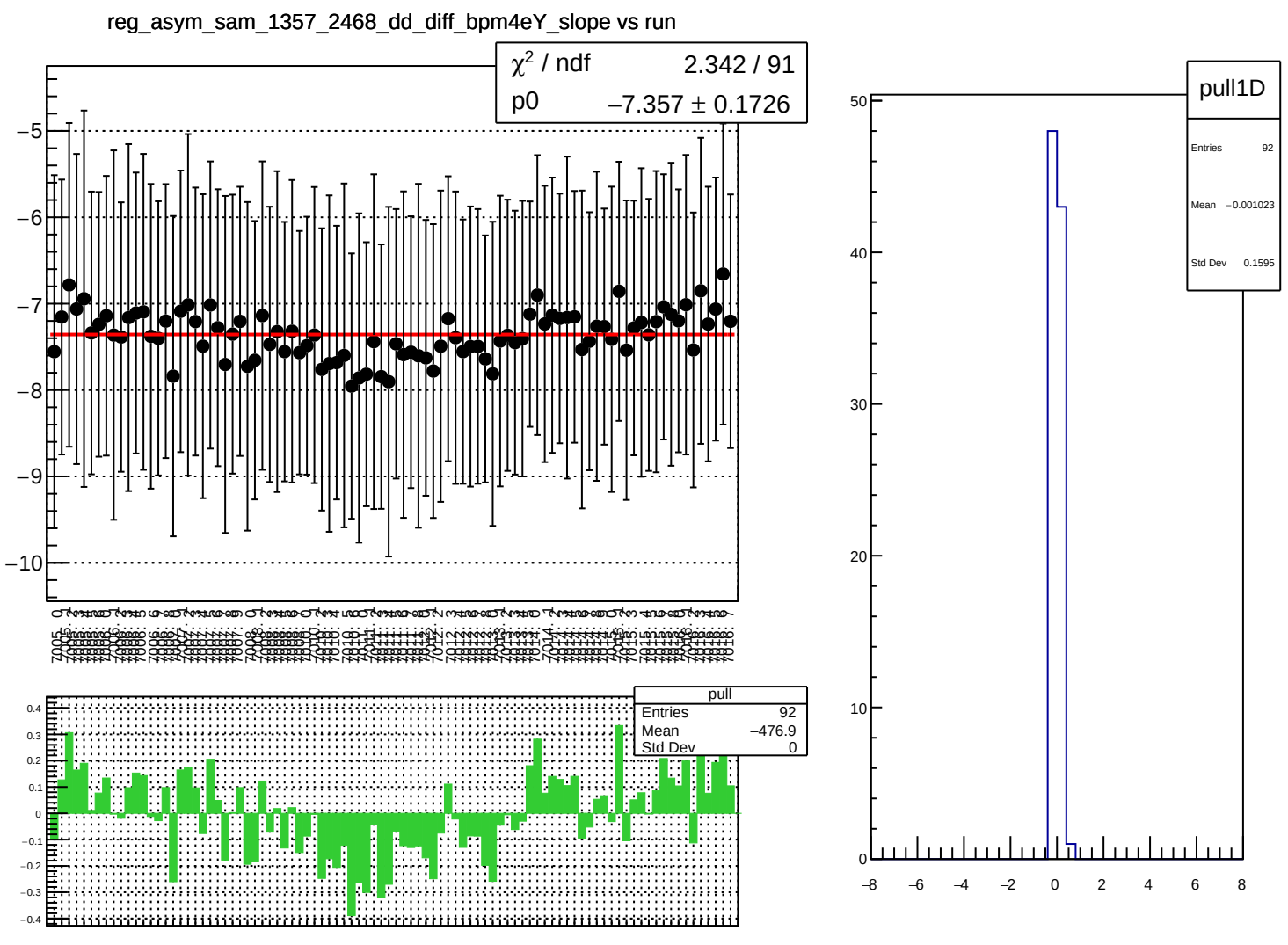

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.69 / 91
p0 46.57 ± 0.6821
55
50
45
40
35
pull
Entries 92
Mean −572.5
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 92
Mean 0.00299
Std Dev 0.171
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

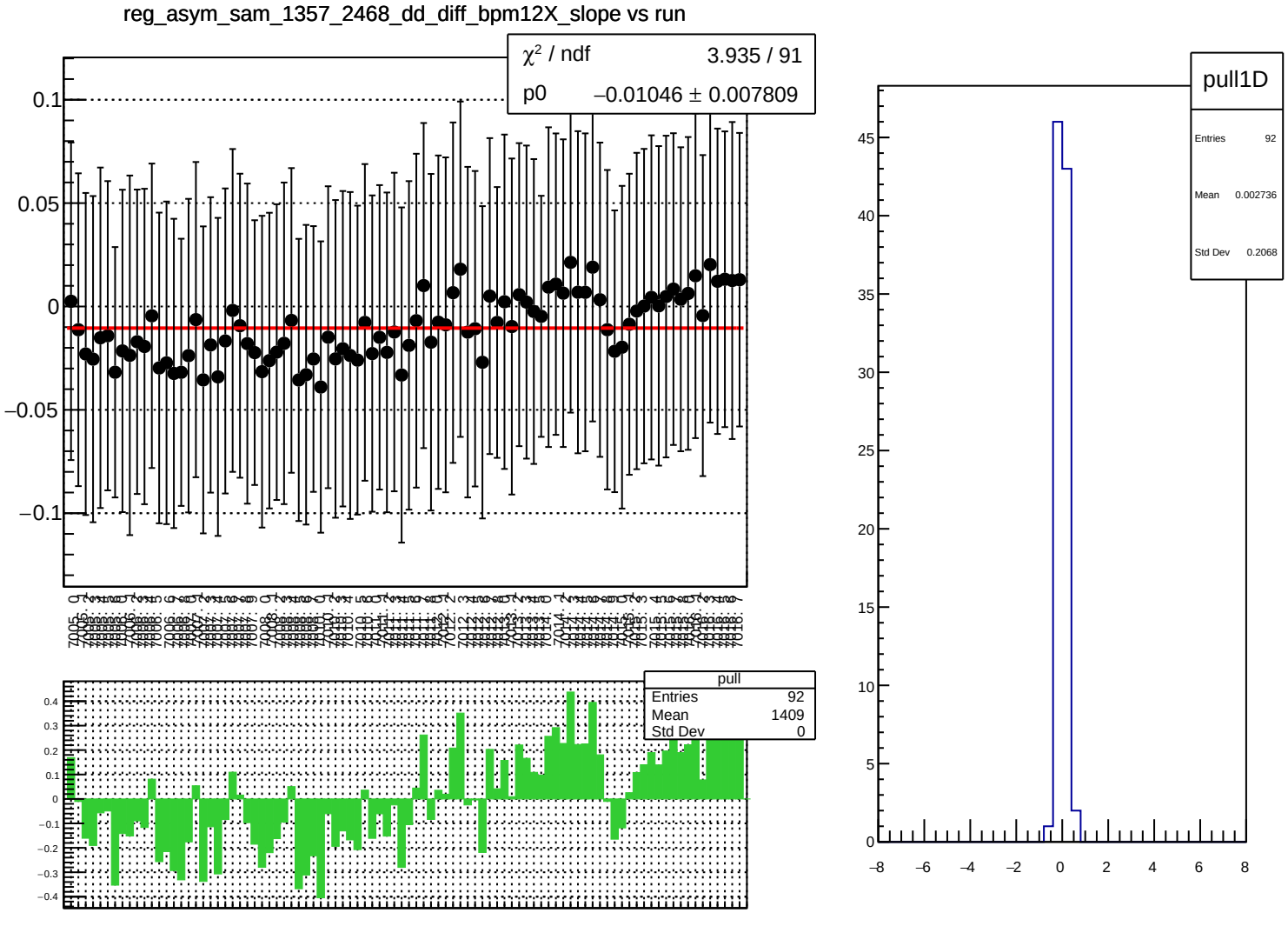

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 11.55 / 91
p0 0.2699 ± 0.03088
pull
Entries 92
Mean −8013
Std Dev 0
pull1D
Entries 92
Mean 0.001005
Std Dev 0.3543

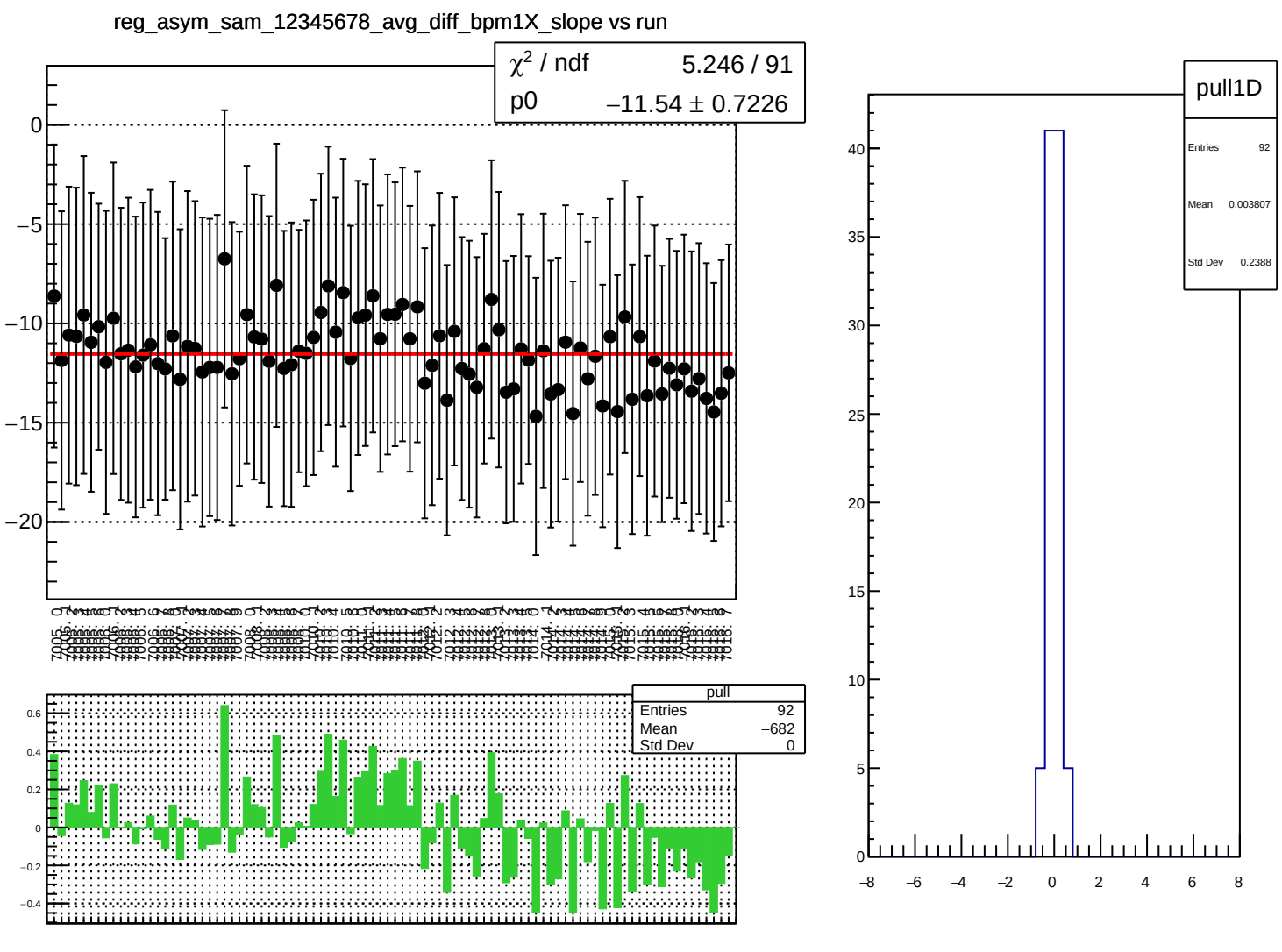

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 6.06 / 91
p0 5.07 ± 0.2434
pull
Entries 92
Mean −529.5
Std Dev 0
pull1D
Entries 92
Mean −0.003295
Std Dev 0.2566

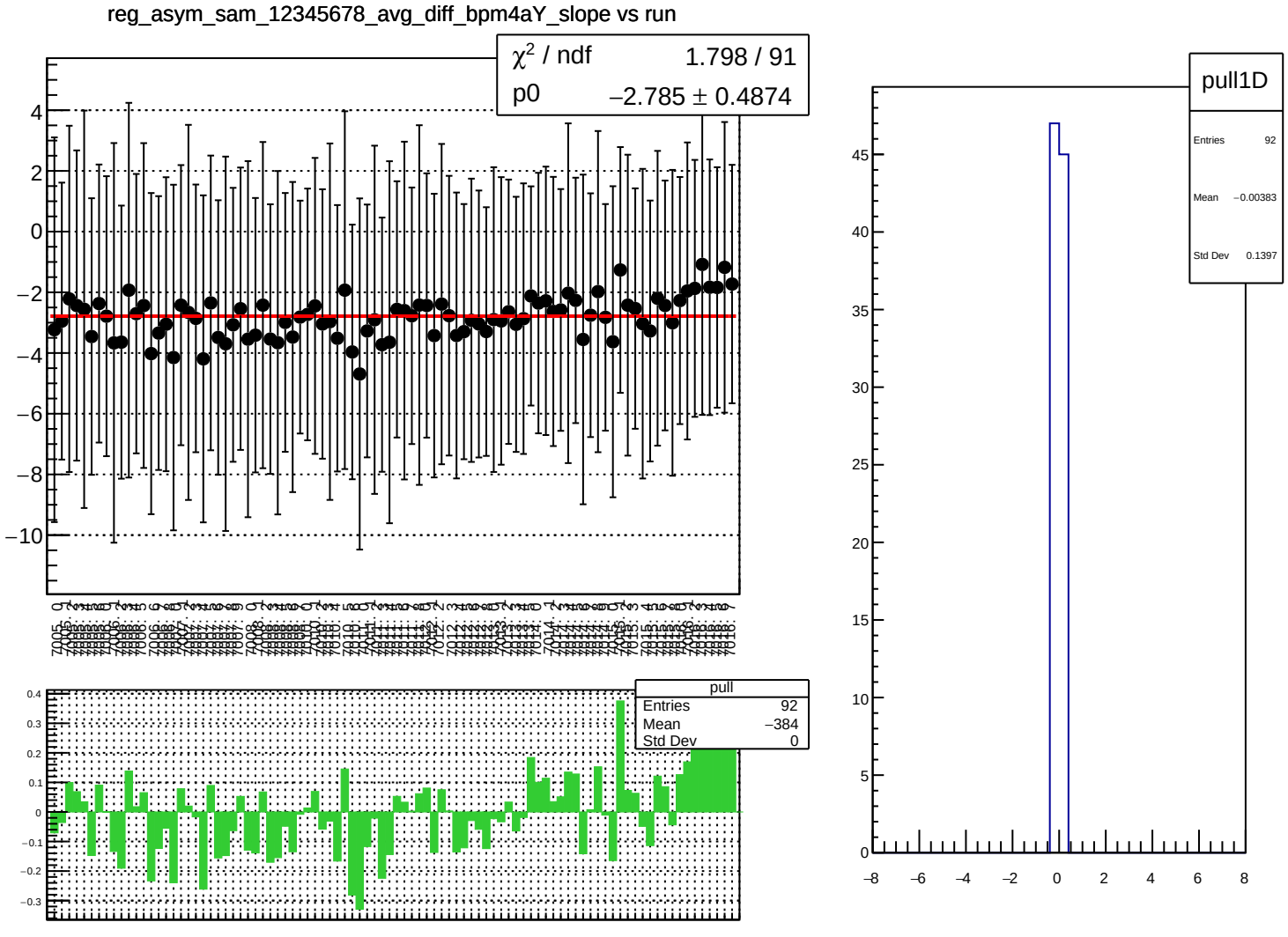

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.562 / 91
p0 2.076 ± 0.1641
pull
Entries 92
Mean −160.5
Std Dev 0
pull1D
Entries 92
Mean 0.003933
Std Dev 0.1302

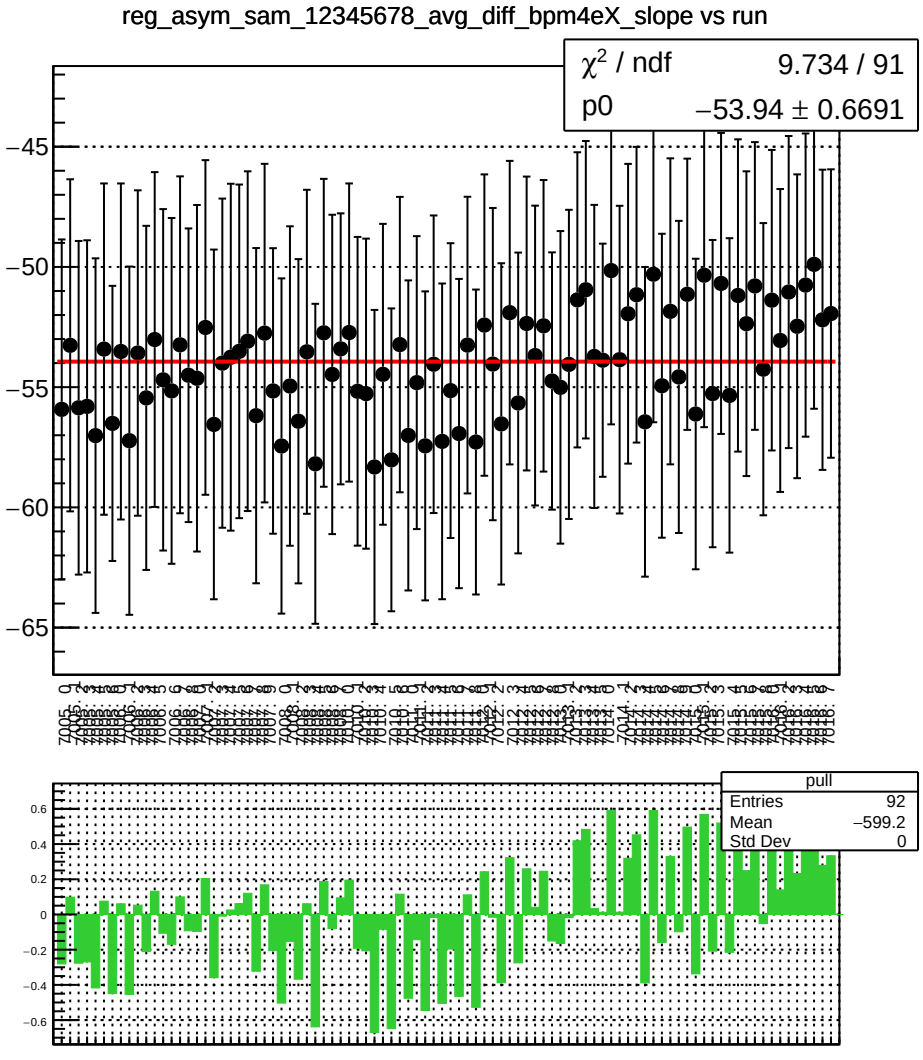

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.428 / 91
p0 18.64 ± 0.2254
pull
Entries 92
Mean −457.5
Std Dev 0
pull1D
Entries 92
Mean 0.003833
Std Dev 0.3201

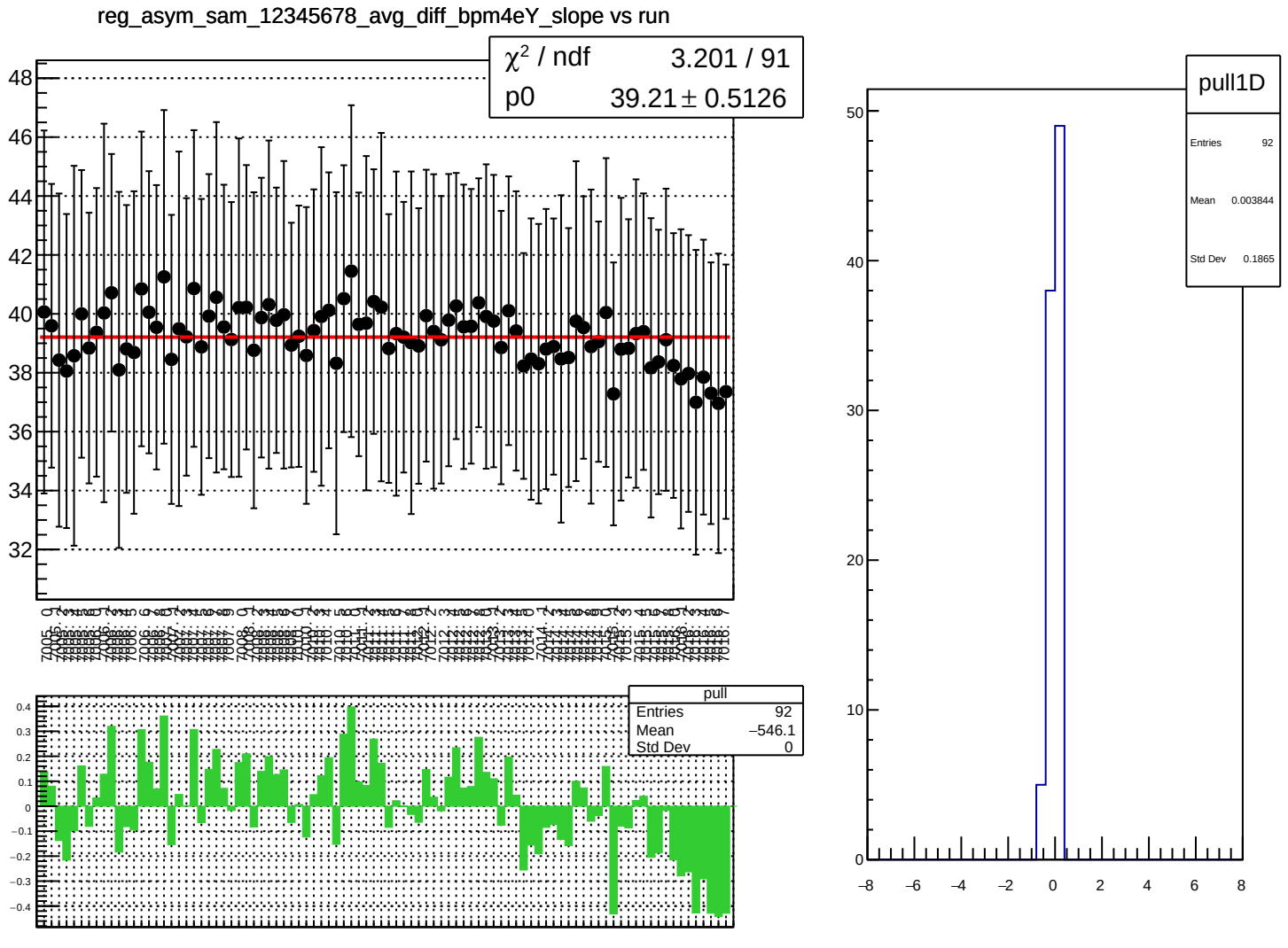

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.342 / 91
p0 −7.357 ± 0.1726
pull
Entries 92
Mean −476.9
Std Dev 0
pull1D
Entries 92
Mean −0.001023
Std Dev 0.1595

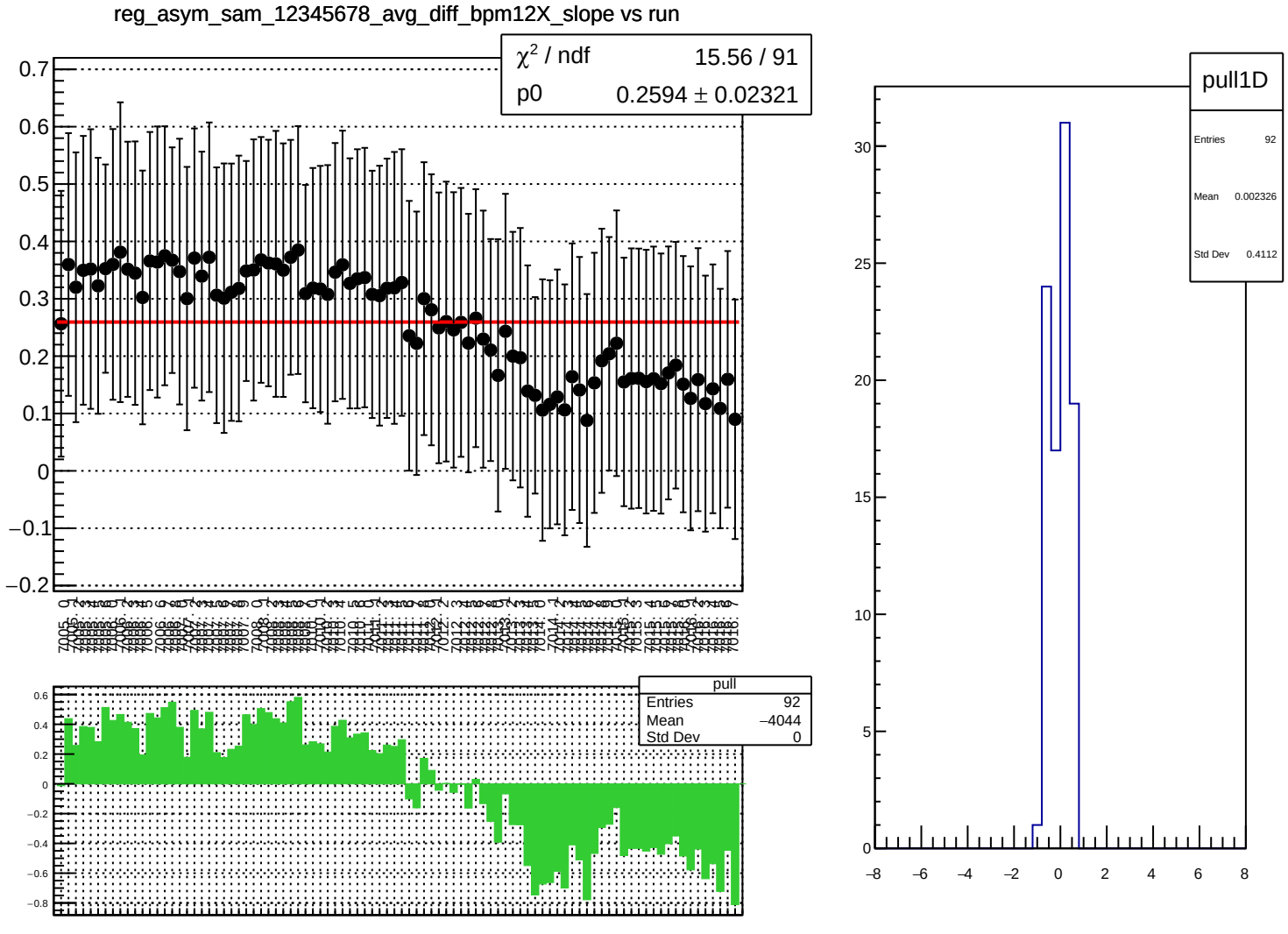

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 3.935 / 91
p0 −0.01046 ± 0.007809
0.1
0.05
0
−0.05
−0.1
pull
Entries 92
Mean 1409
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 92
Mean 0.002736
Std Dev 0.2068
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

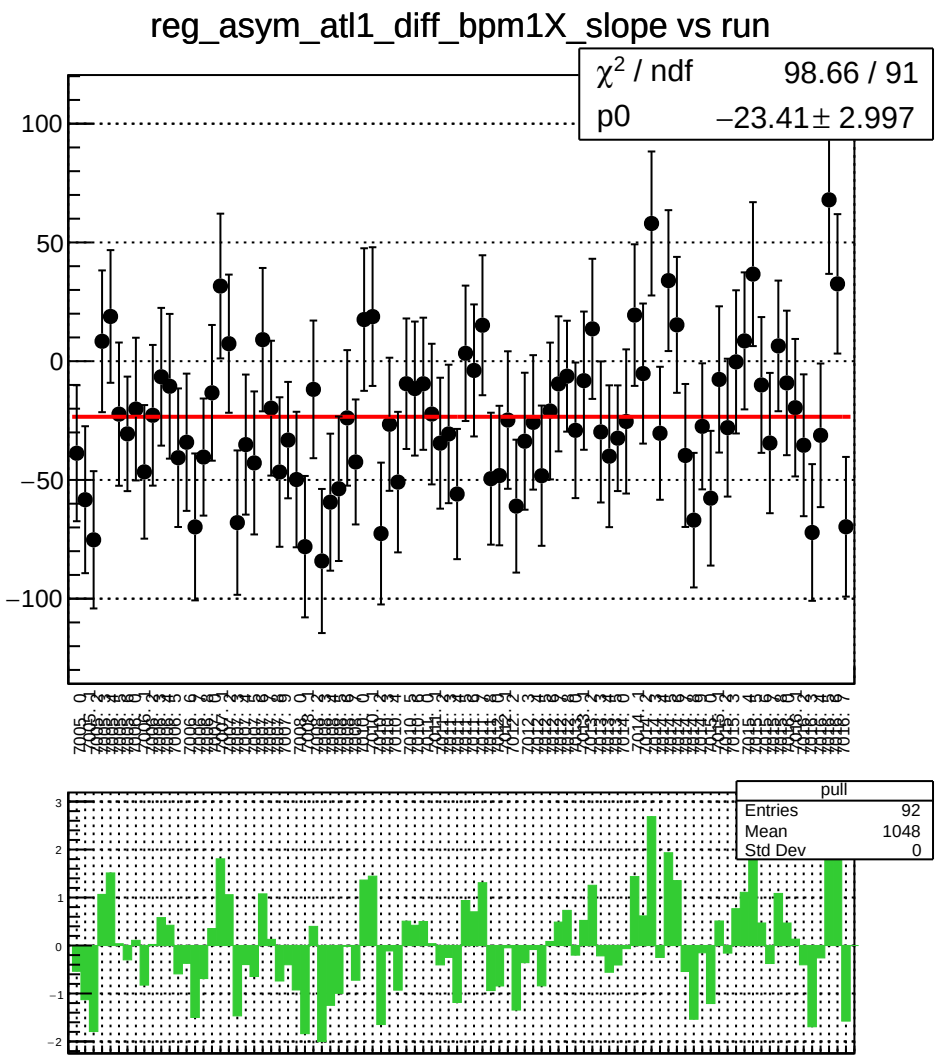

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 5.246 / 91
p0 −11.54 ± 0.7226
pull
Entries 92
Mean −682
Std Dev 0
pull1D
Entries 92
Mean 0.003807
Std Dev 0.2388

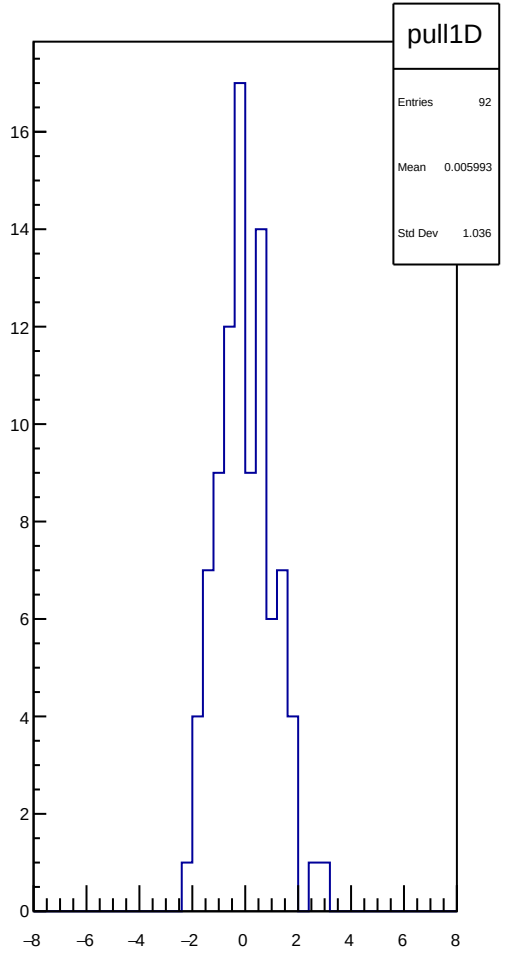

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.798 / 91
p0 −2.785 ± 0.4874
pull
Entries 92
Mean −384
Std Dev 0
pull1D
Entries 92
Mean −0.00383
Std Dev 0.1397

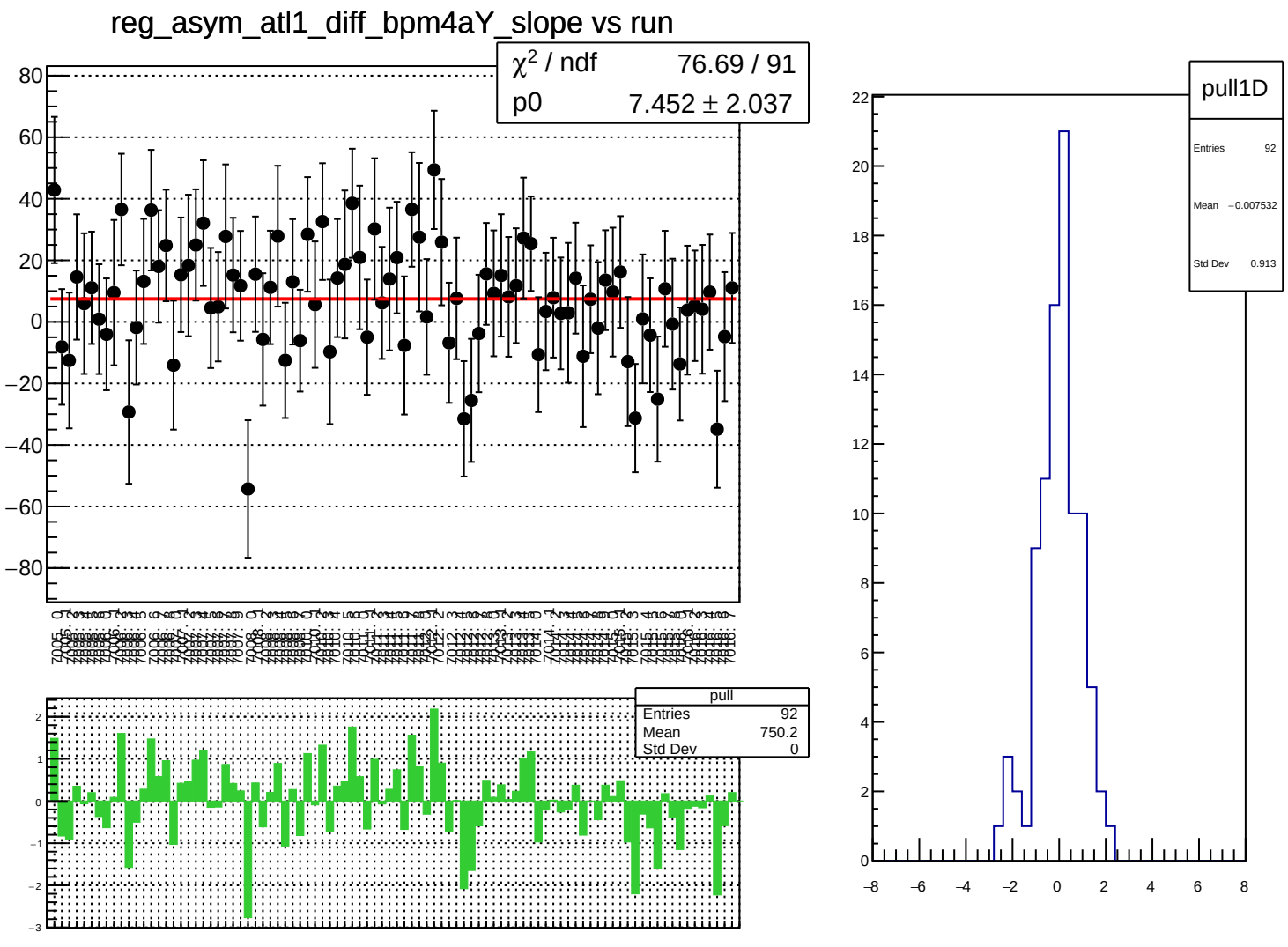

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.734 / 91
p0 −53.94 ± 0.6691
−45
−50
−55
−60
−65
pull
Entries 92
Mean −599.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.00642
Std Dev 0.3252
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

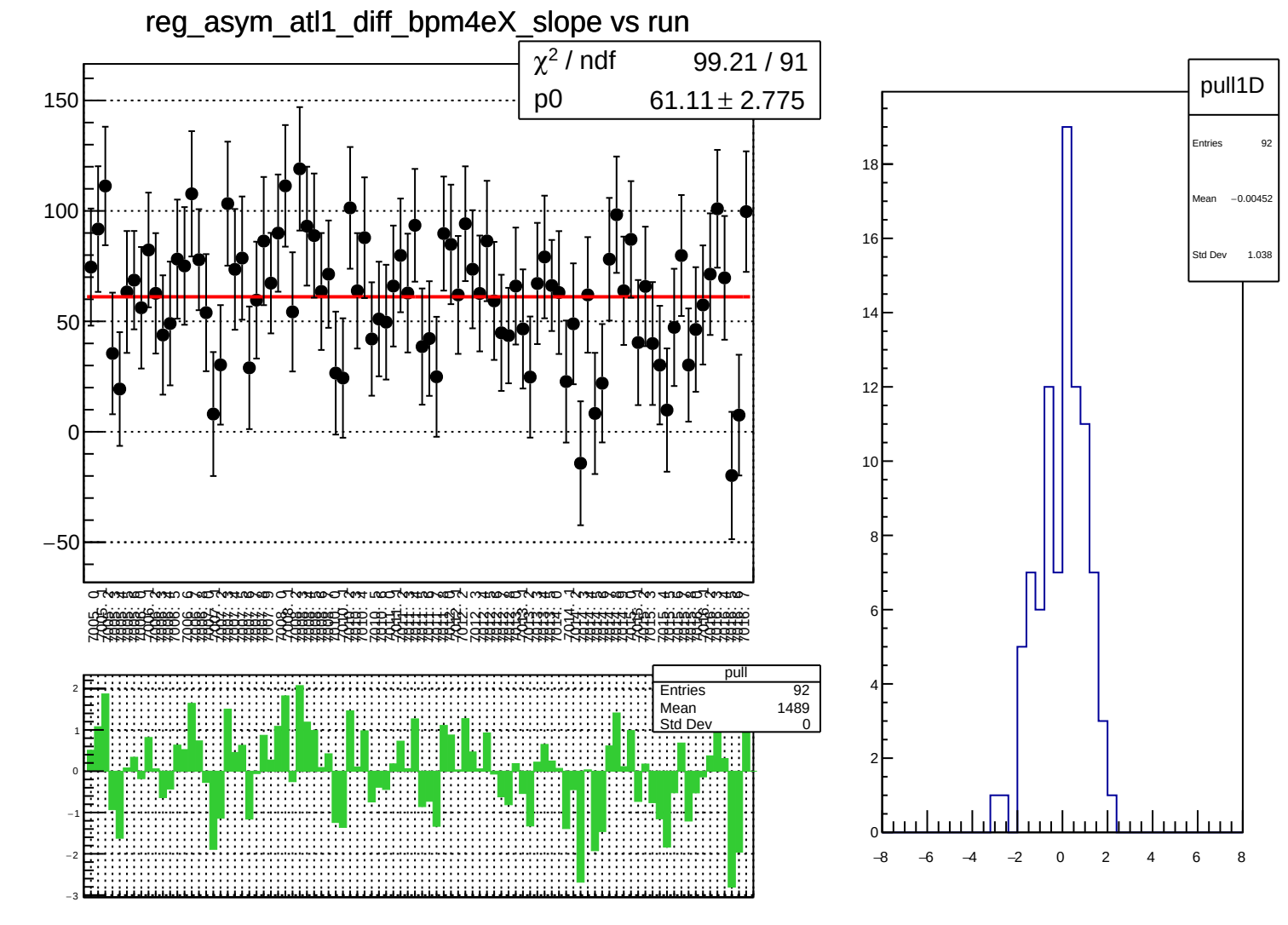

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.201 / 91
p0 39.21 ± 0.5126
pull
Entries 92
Mean −546.1
Std Dev 0
pull1D
Entries 92
Mean 0.003844
Std Dev 0.1865

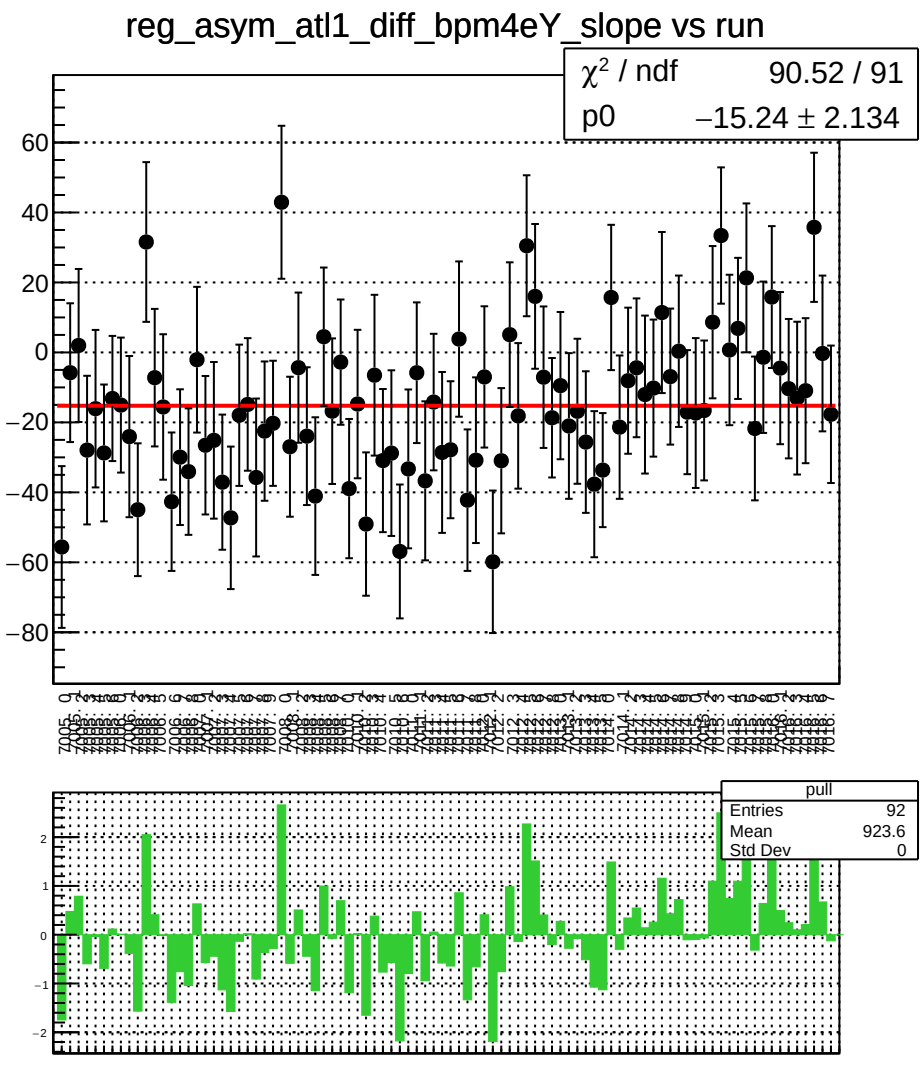

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 15.56 / 91
p0 0.2594 ± 0.02321
pull
Entries 92
Mean −4044
Std Dev 0
pull1D
Entries 92
Mean 0.002326
Std Dev 0.4112

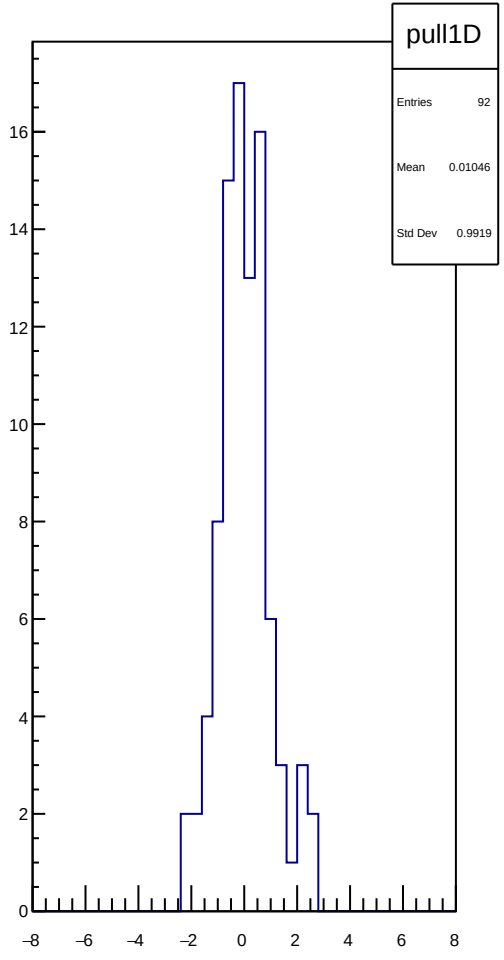

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 98.66 / 91
p0 −23.41 ± 2.997
100
50
0
−50
−100
pull
Entries 92
Mean 1048
Std Dev 0
3
2
1
0
−1
−2

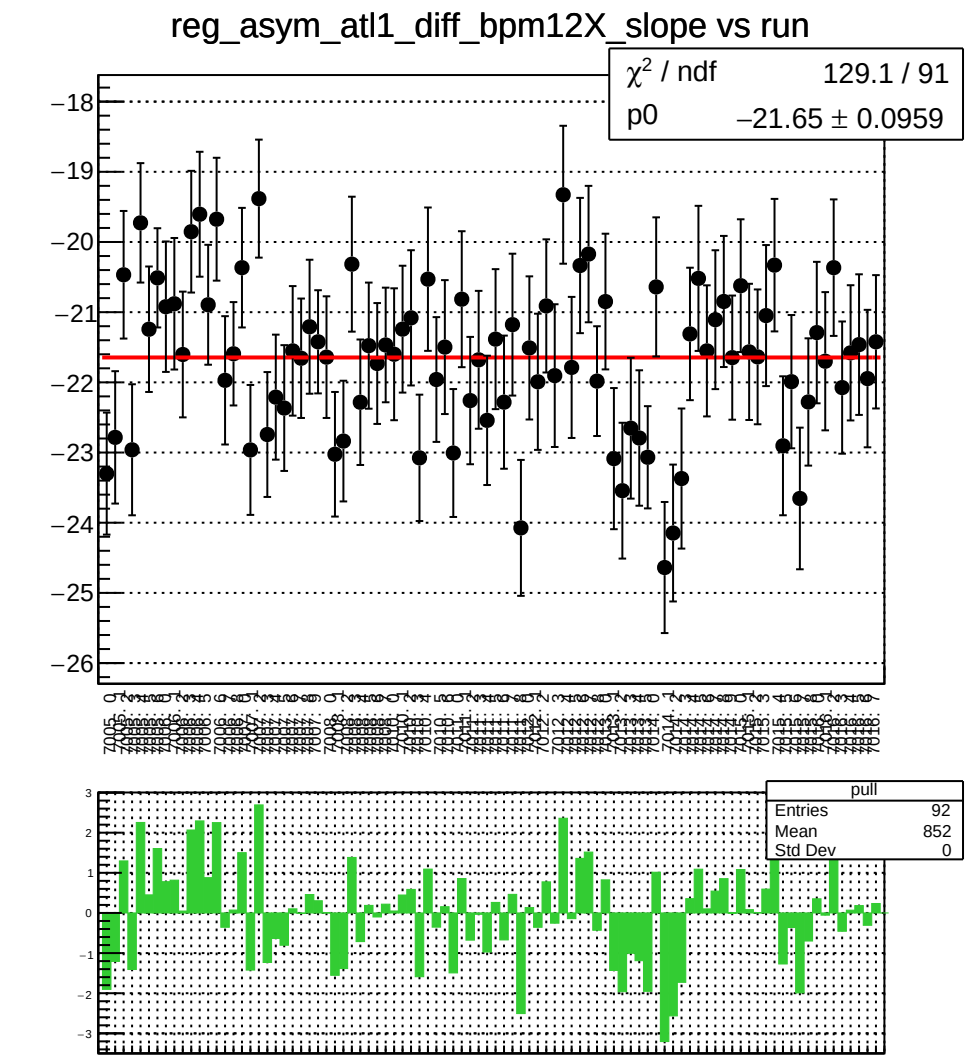

pull1D
Entries 92
Mean 0.005993
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

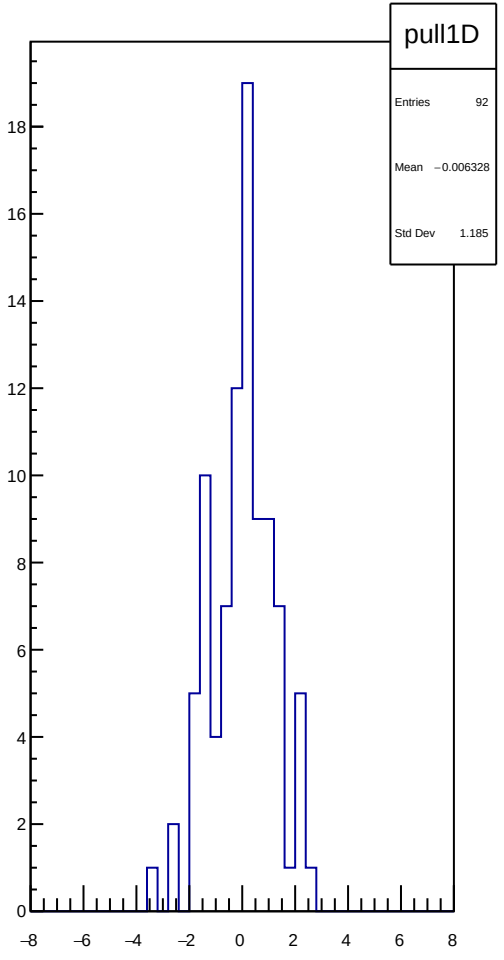

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 76.69 / 91
p0 7.452 ± 2.037
pull
Entries 92
Mean 750.2
Std Dev 0
pull1D
Entries 92
Mean −0.007532
Std Dev 0.913

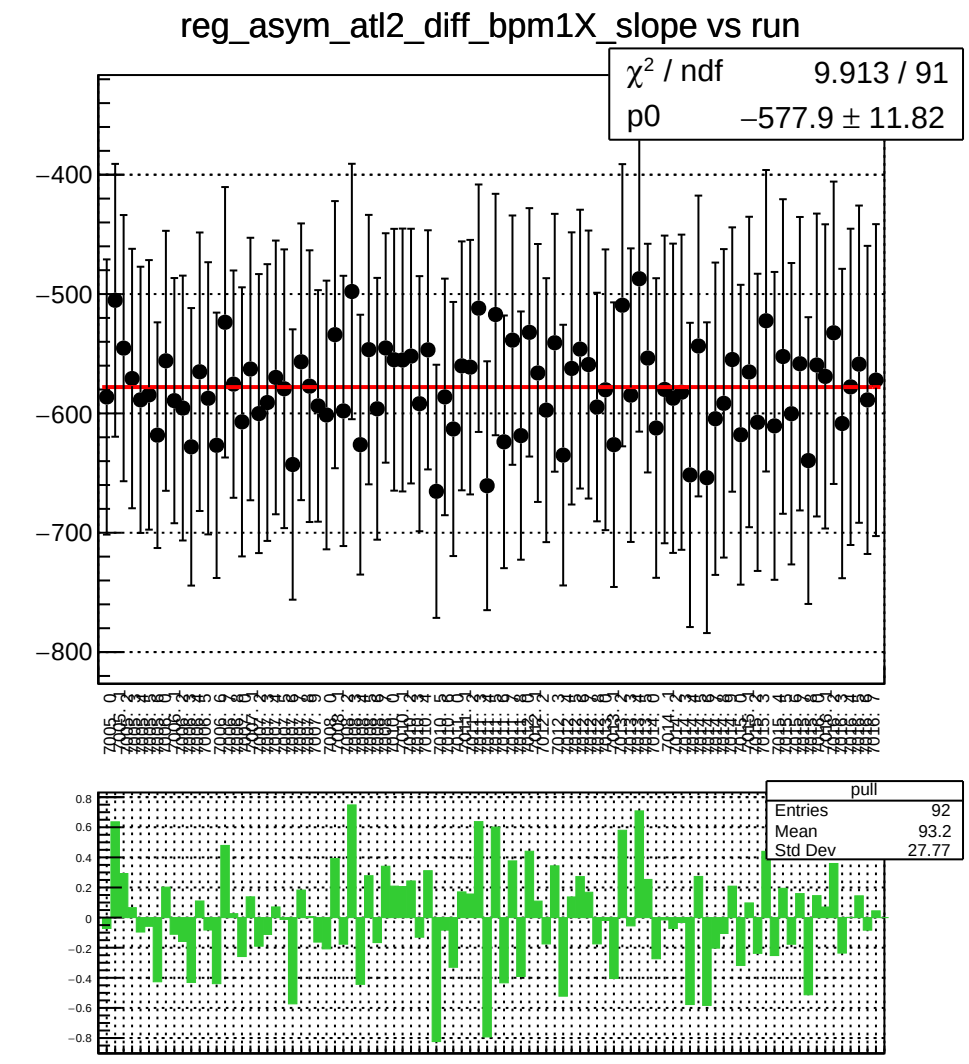

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 99.21 / 91
p0 61.11 ± 2.775
150
100
50
0
−50
pull
Entries 92
Mean 1489
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.00452
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

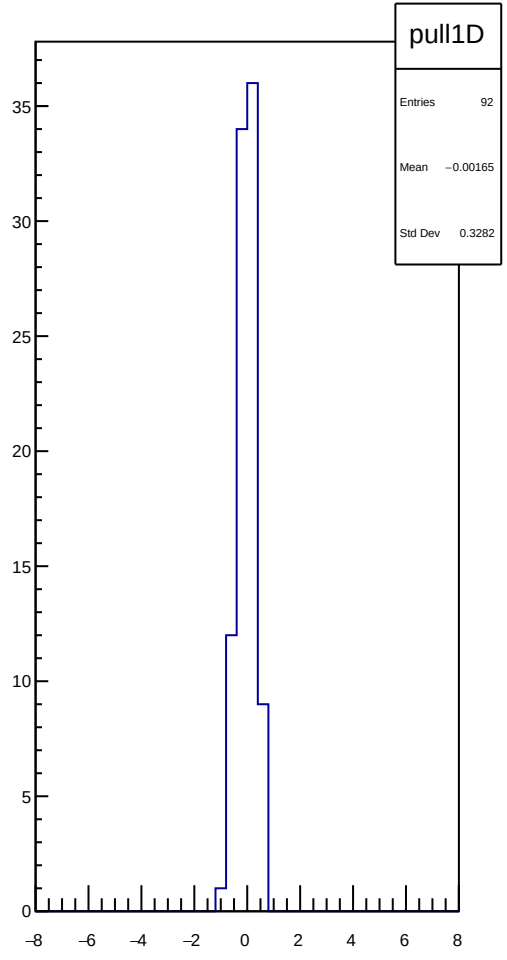

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 90.52 / 91
p0 −15.24 ± 2.134
pull
Entries 92
Mean 923.6
Std Dev 0

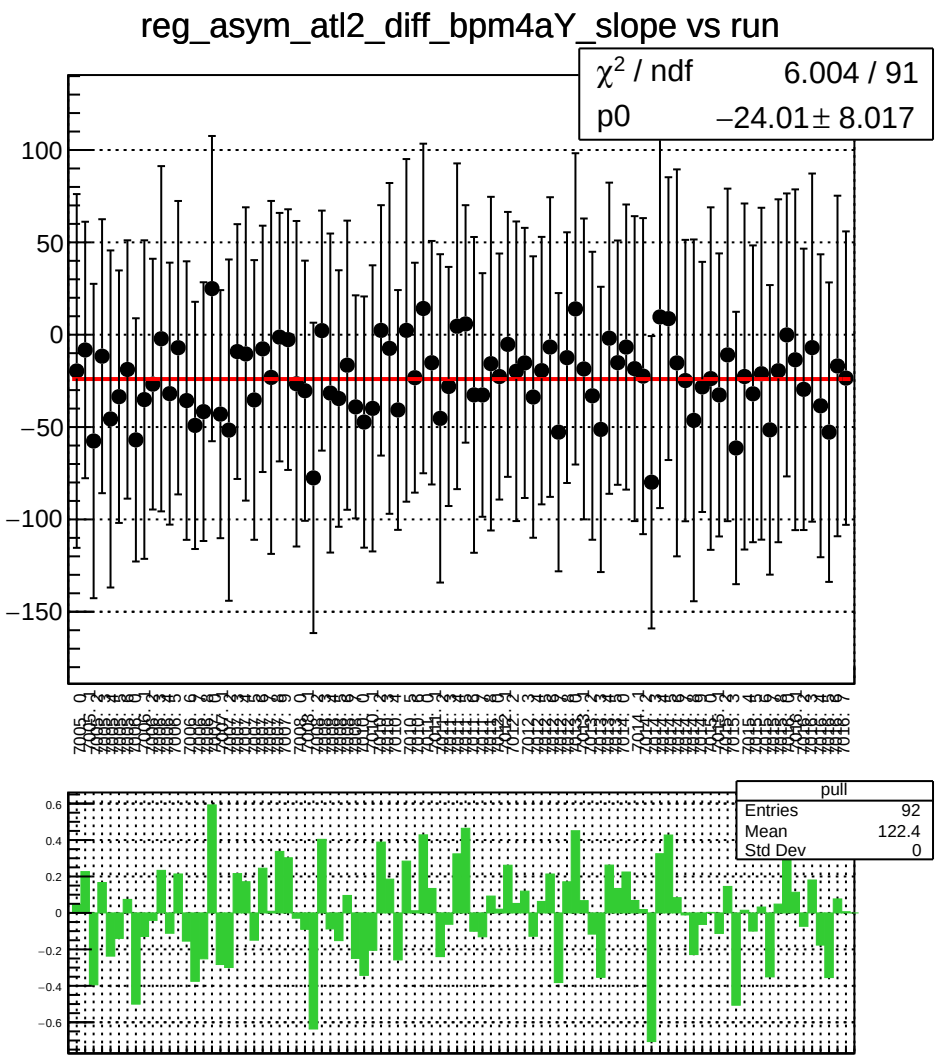

pull1D
Entries 92
Mean 0.01046
Std Dev 0.9919

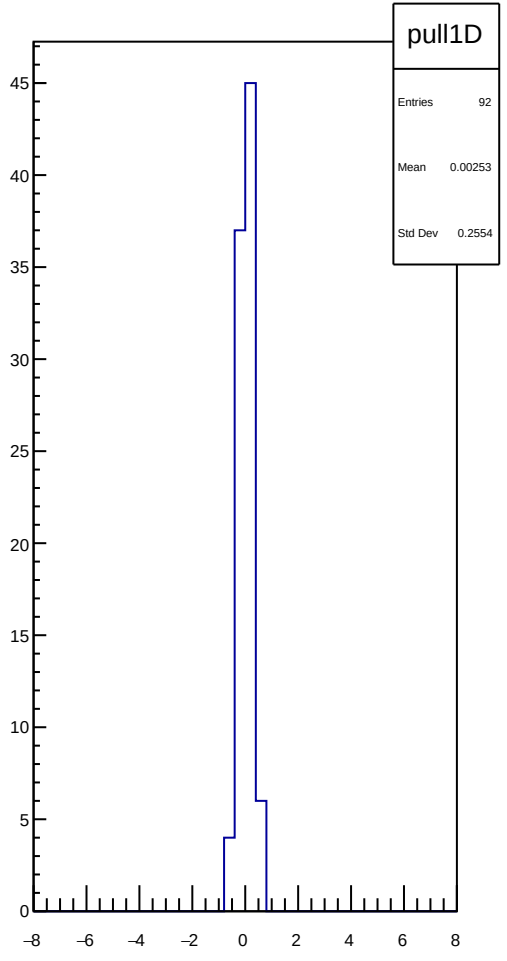

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 129.1 / 91
p0 −21.65 ± 0.0959
pull
Entries 92
Mean 852
Std Dev 0

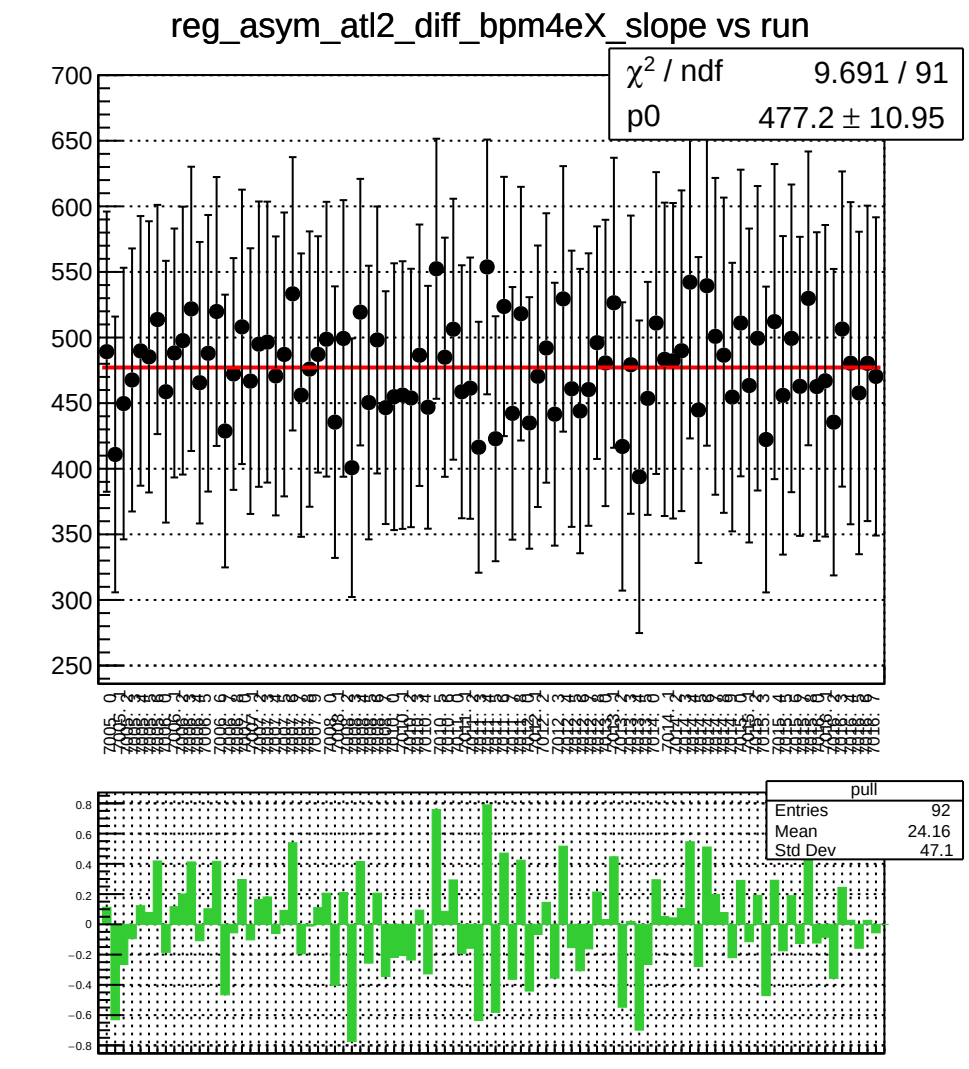

pull1D
Entries 92
Mean −0.006328
Std Dev 1.185

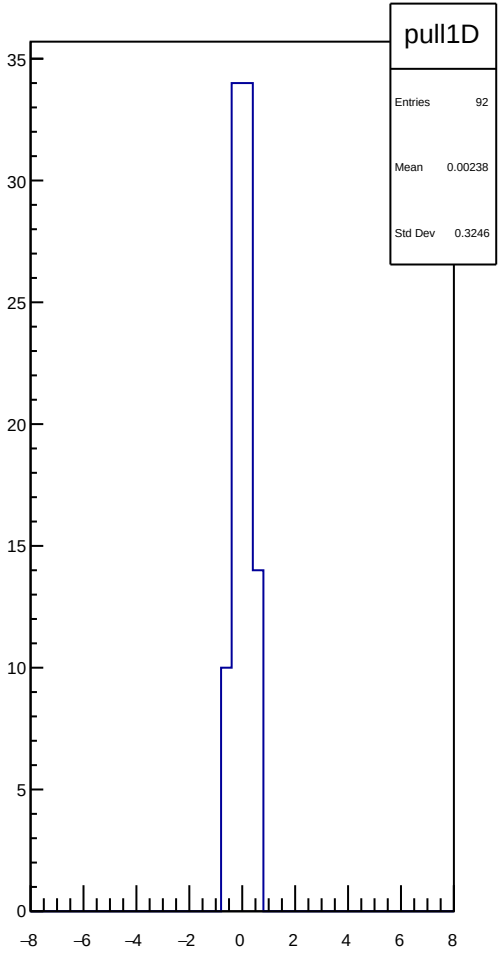

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 9.913 / 91
p0 −577.9 ± 11.82
−400
−500
−600
−700
−800
pull
Entries 92
Mean 93.2
Std Dev 27.77
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

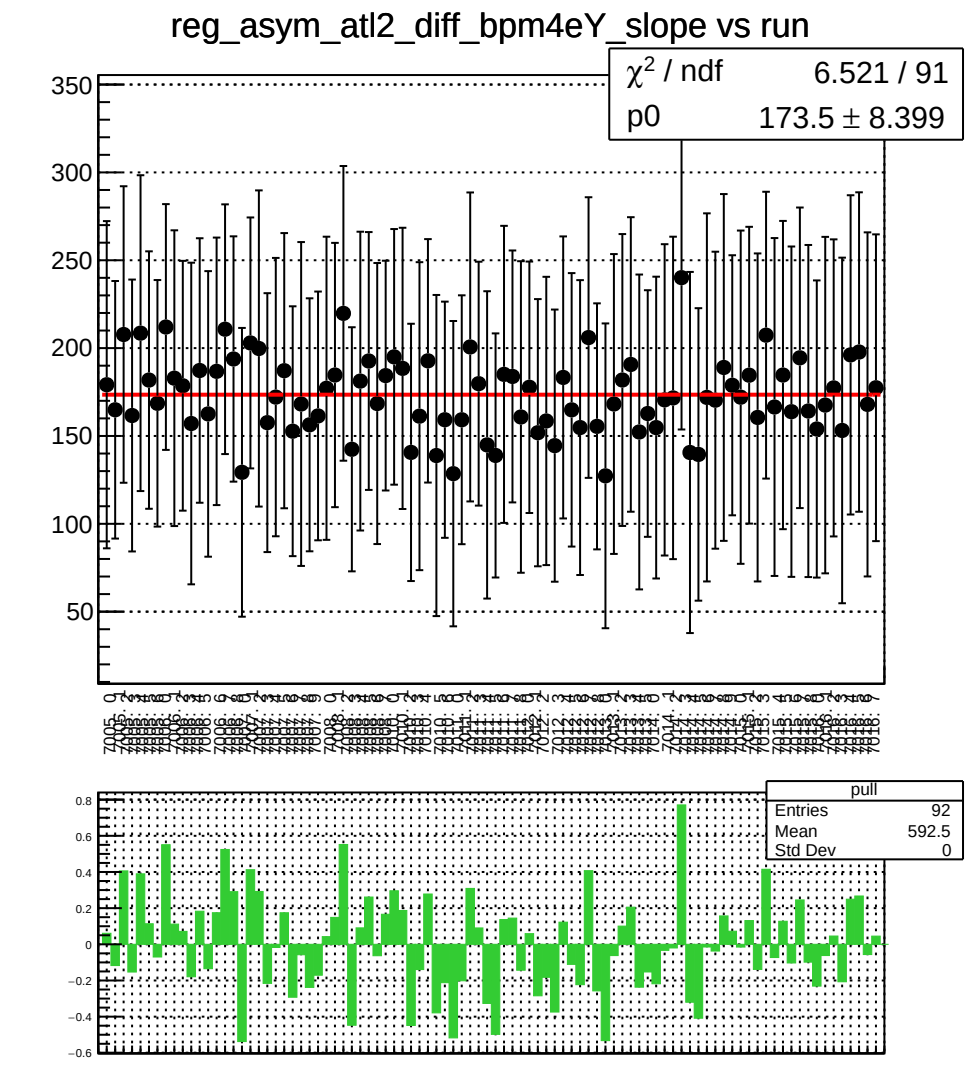

pull1D
Entries 92
Mean −0.00165
Std Dev 0.3282
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

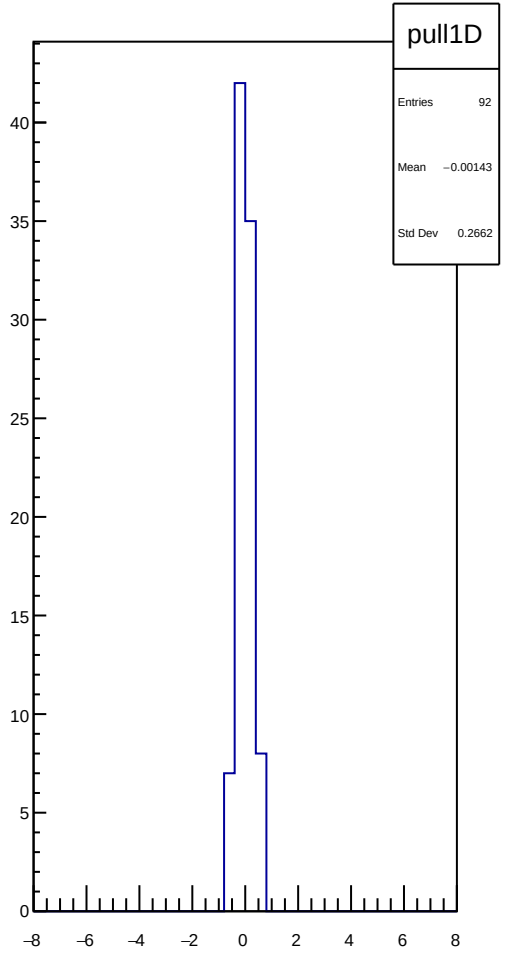

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.004 / 91
p0 −24.01 ± 8.017
100
50
0
−50
−100
−150
pull
Entries 92
Mean 122.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

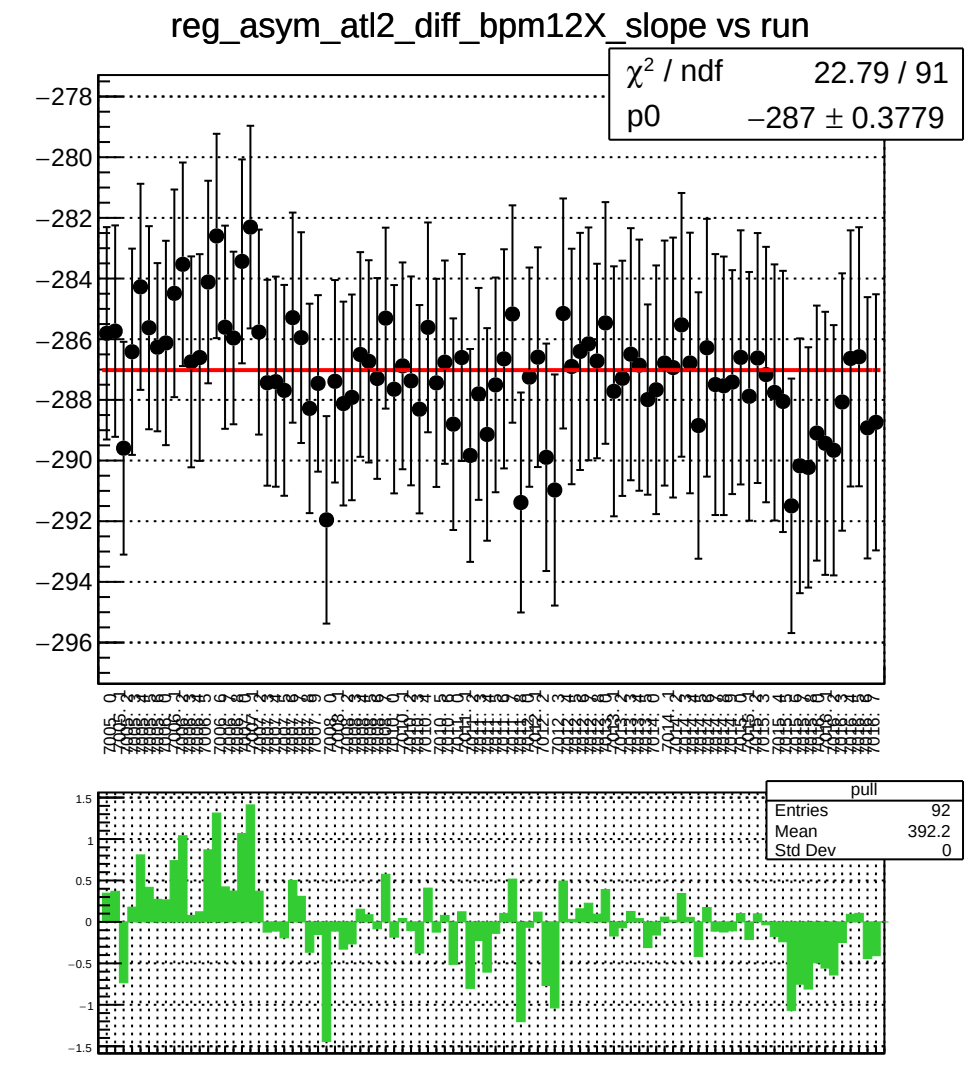

pull1D
Entries 92
Mean 0.00253
Std Dev 0.2554
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

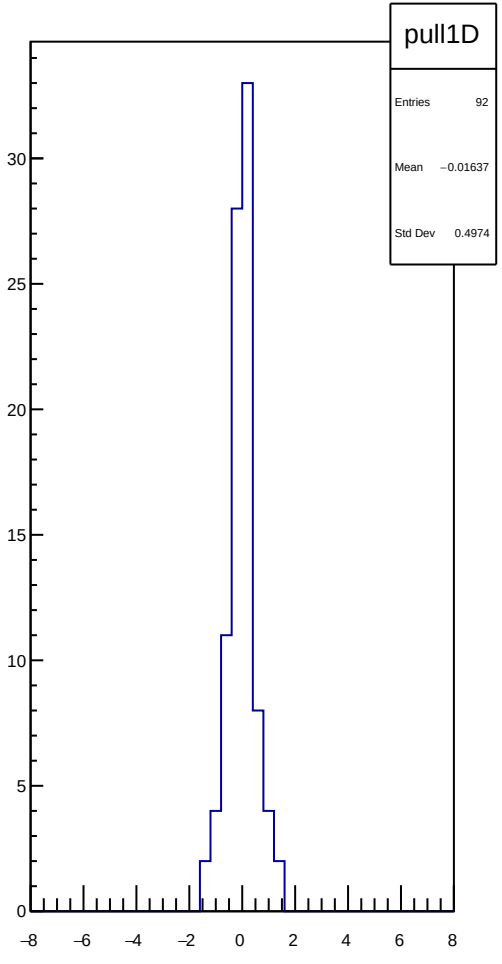

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 9.691 / 91
p0 477.2 ± 10.95
pull
Entries 92
Mean 24.16
Std Dev 47.1

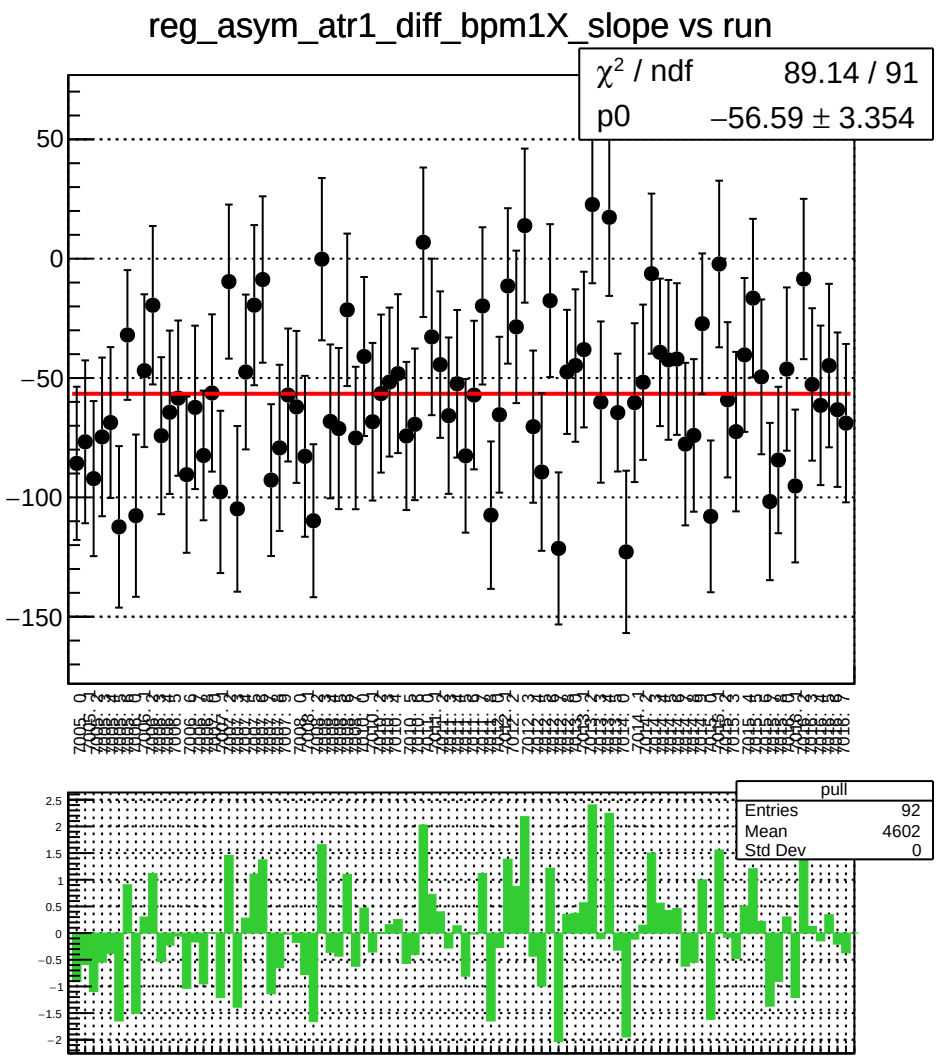

pull1D
Entries 92
Mean 0.00238
Std Dev 0.3246

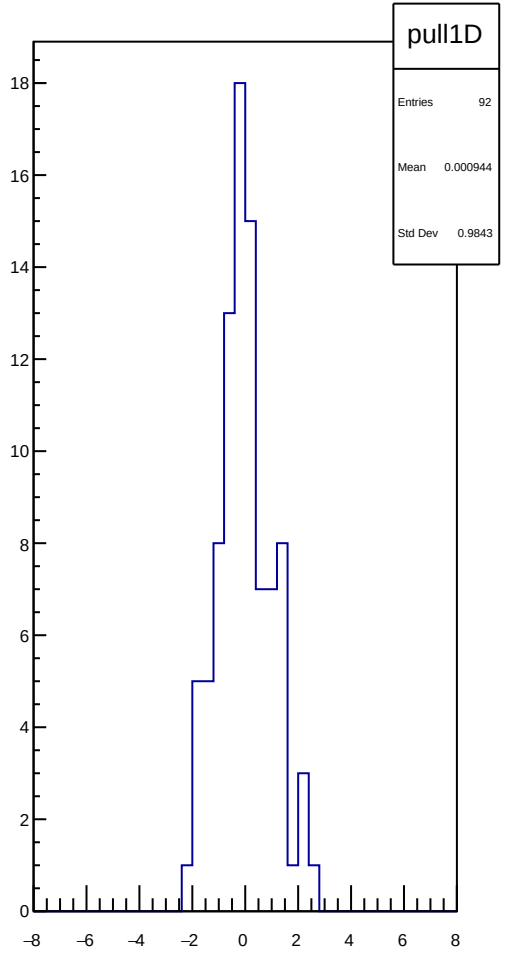

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 6.521 / 91
p0 173.5 ± 8.399
pull
Entries 92
Mean 592.5
Std Dev 0

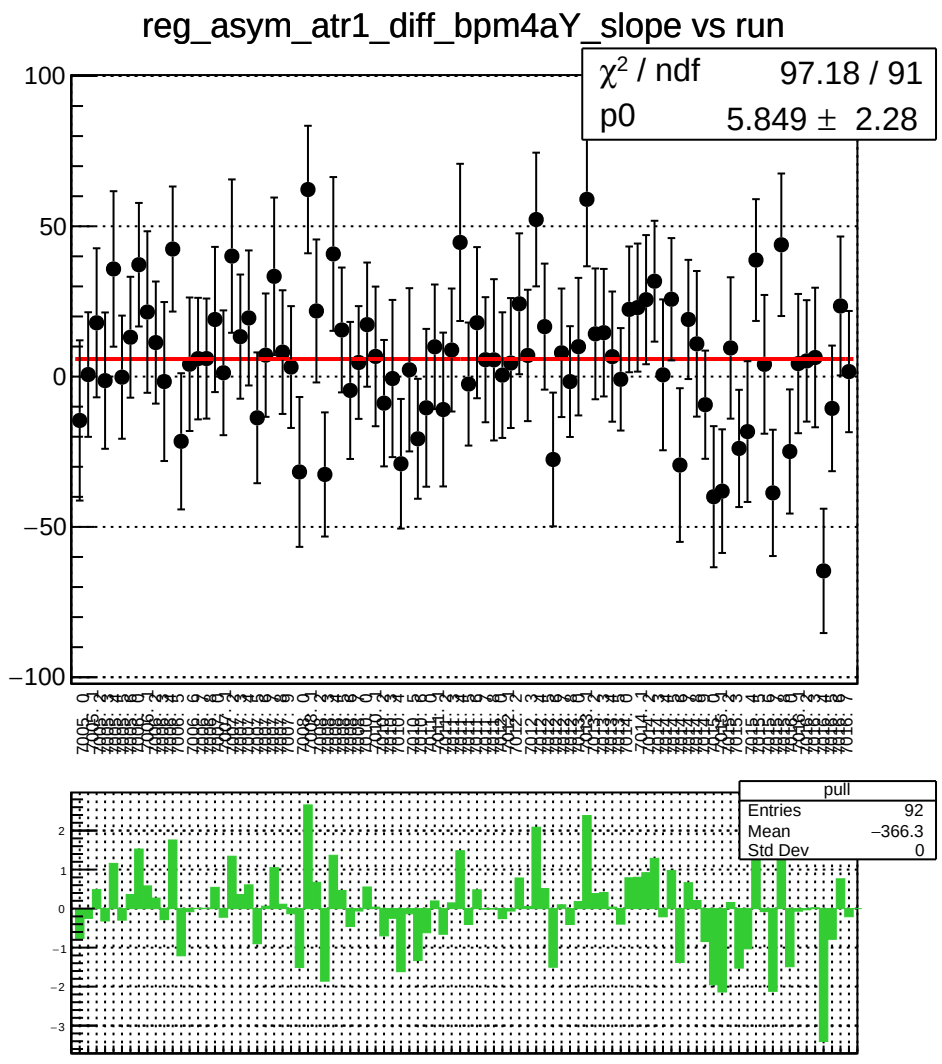

pull1D
Entries 92
Mean −0.00143
Std Dev 0.2662

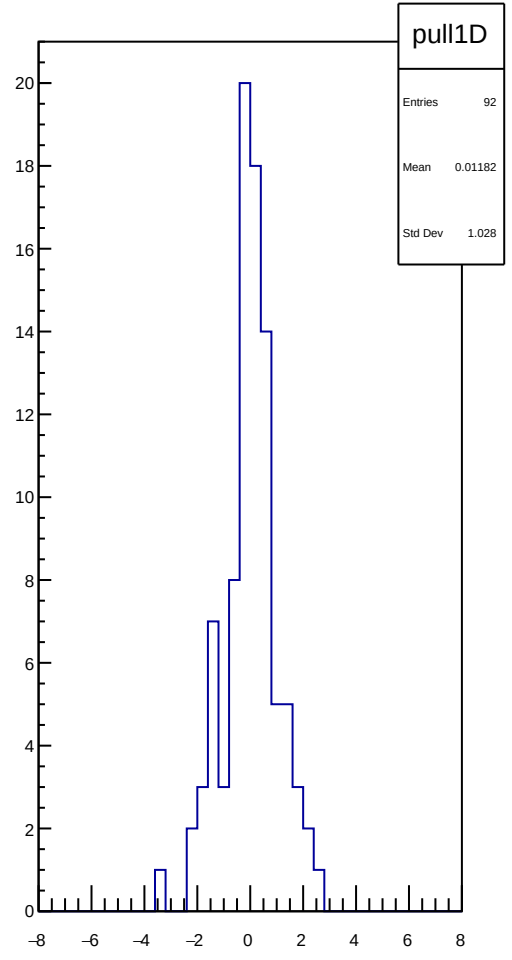

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 22.79 / 91
p0 −287 ± 0.3779
−278
−280
−282
−284
−286
−288
−290
−292
−294
−296
pull
Entries 92
Mean 392.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

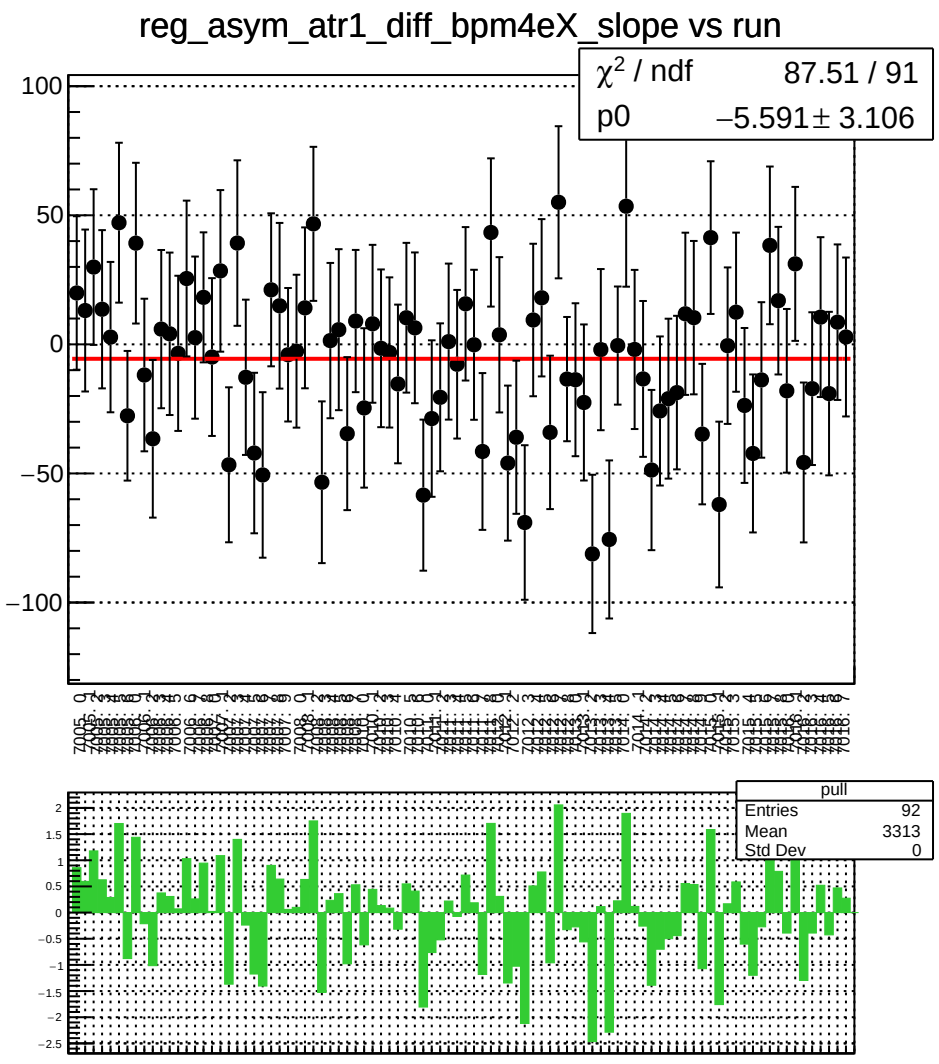

pull1D
Entries 92
Mean −0.01637
Std Dev 0.4974
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

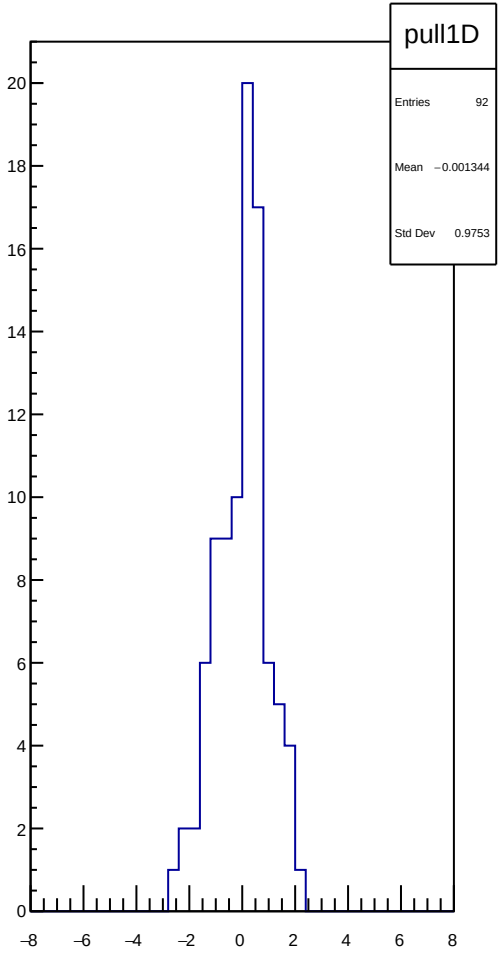

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 89.14 / 91
p0 −56.59 ± 3.354
50
0
−50
−100
−150
pull
Entries 92
Mean 4602
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

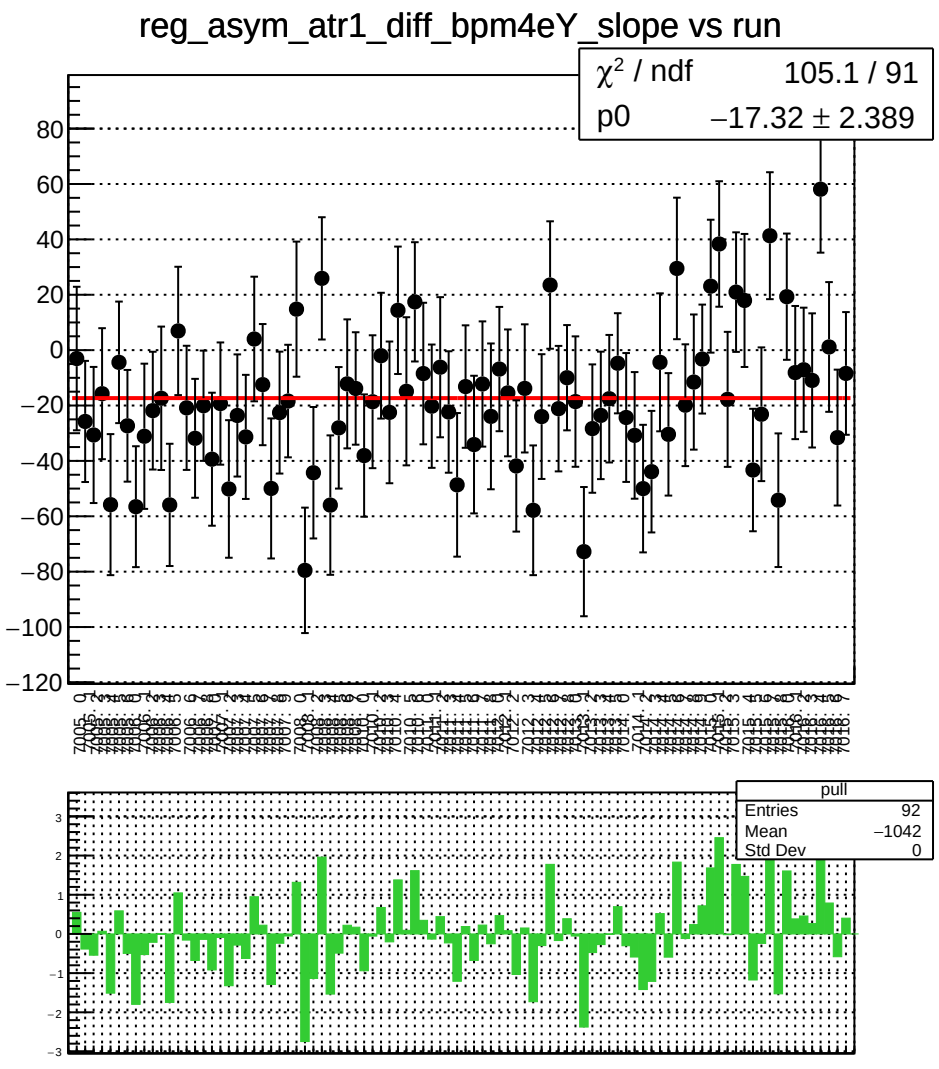

pull1D
Entries 92
Mean 0.000944
Std Dev 0.9843
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

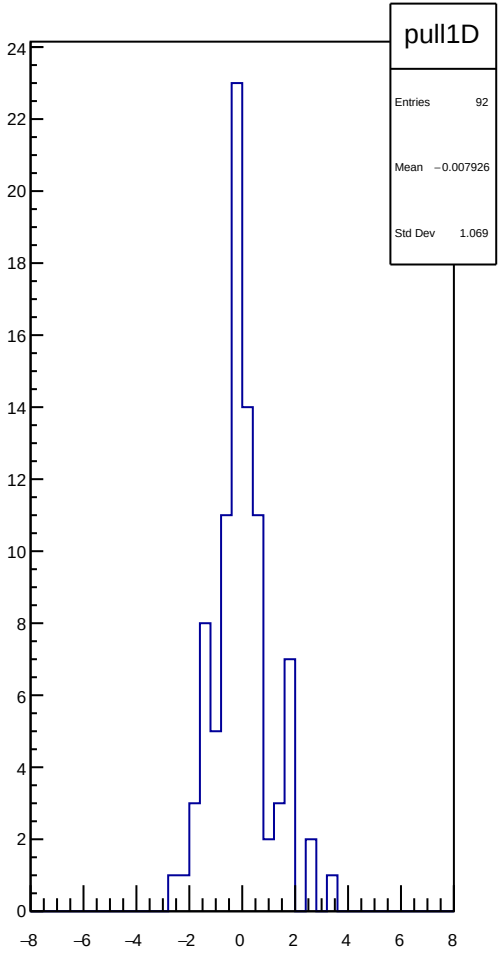

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 97.18 / 91
p0 5.849 ± 2.28
pull
Entries 92
Mean −366.3
Std Dev 0

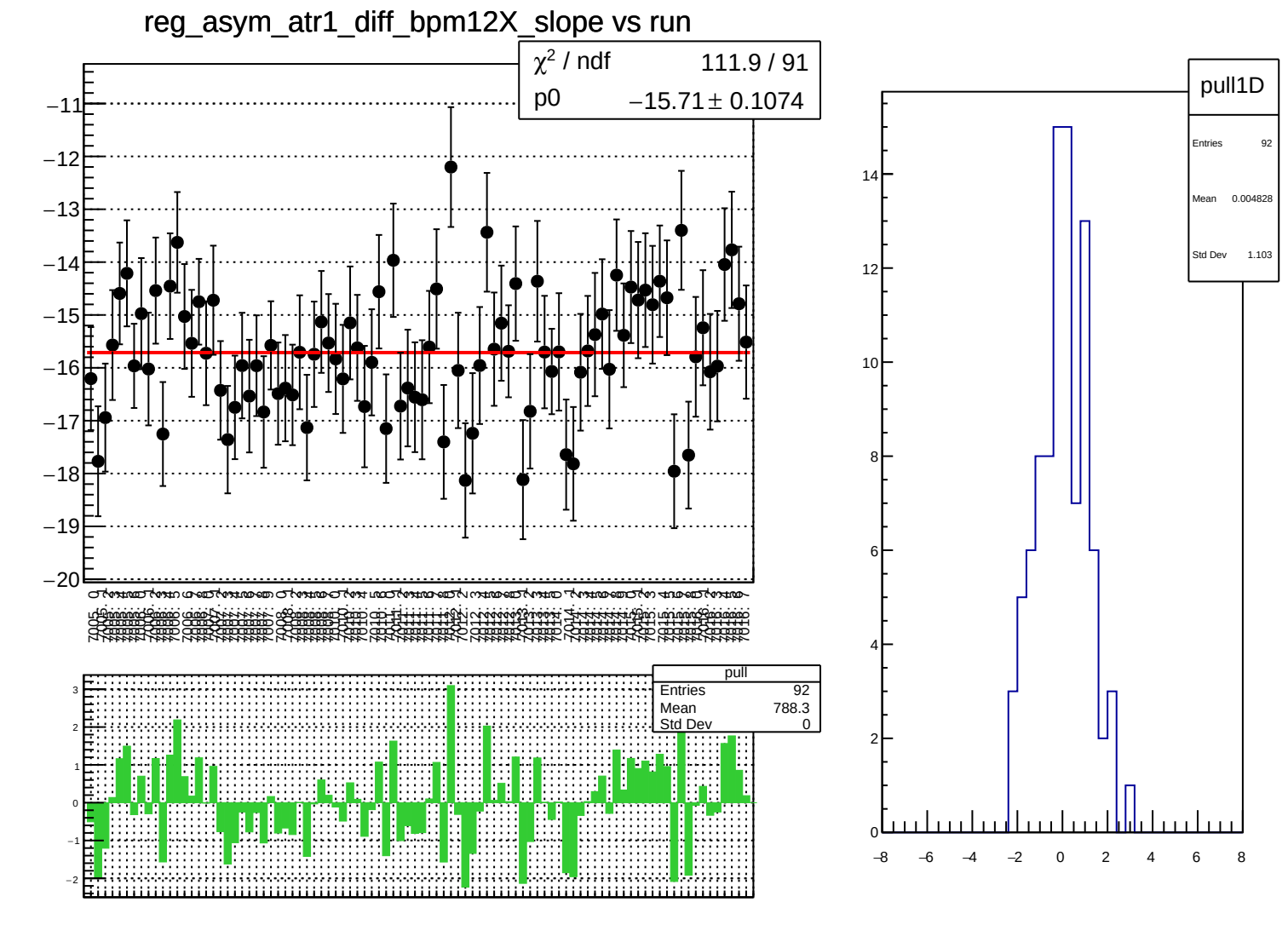

pull1D
Entries 92
Mean 0.01182
Std Dev 1.028

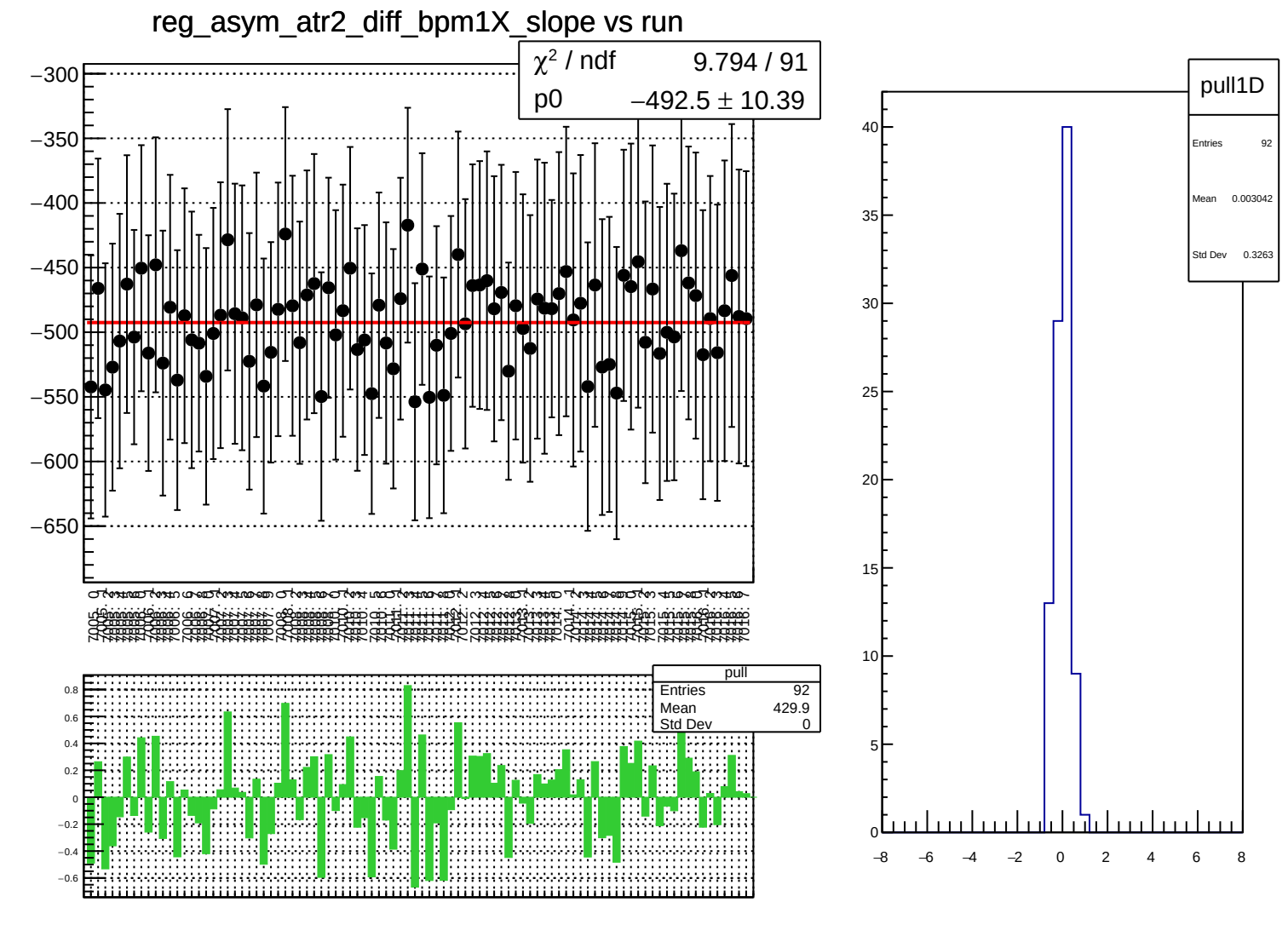

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 87.51 / 91
p0 −5.591 ± 3.106
pull
Entries 92
Mean 3313
Std Dev 0

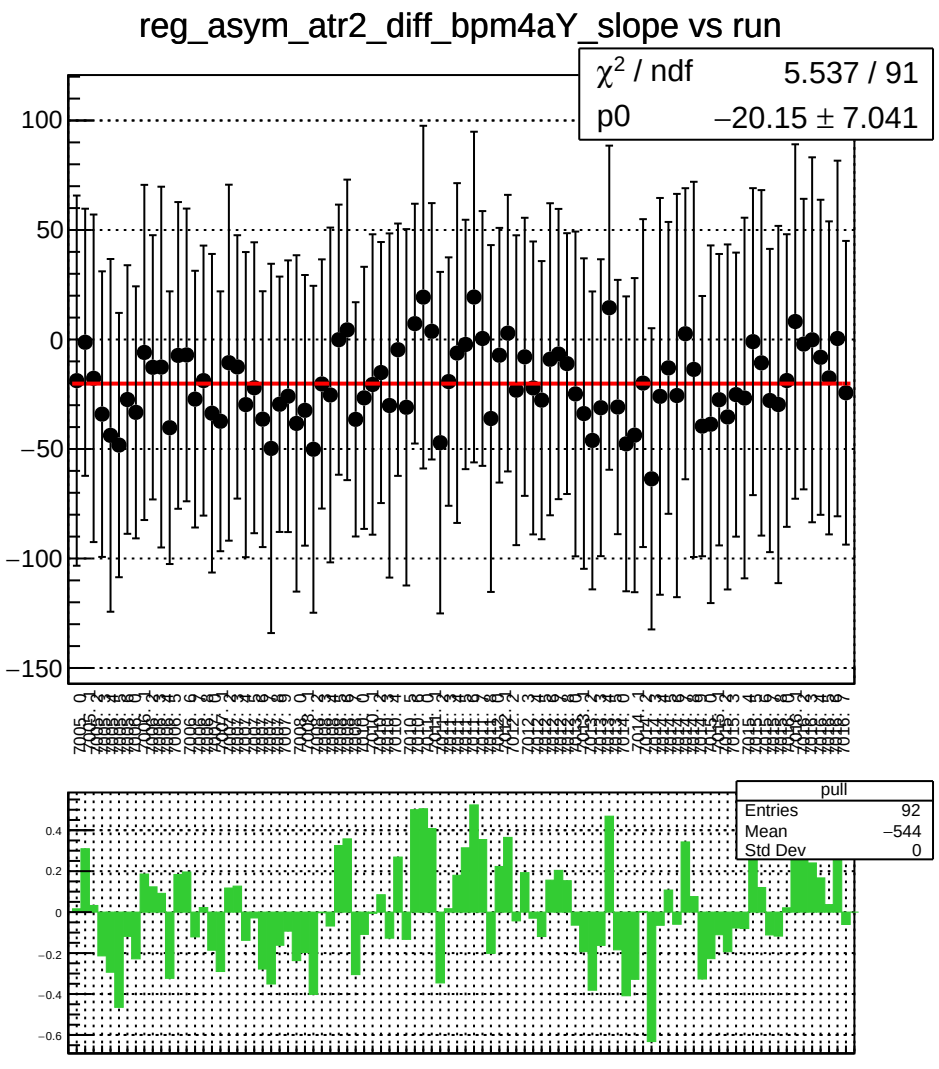

pull1D
Entries 92
Mean −0.001344
Std Dev 0.9753

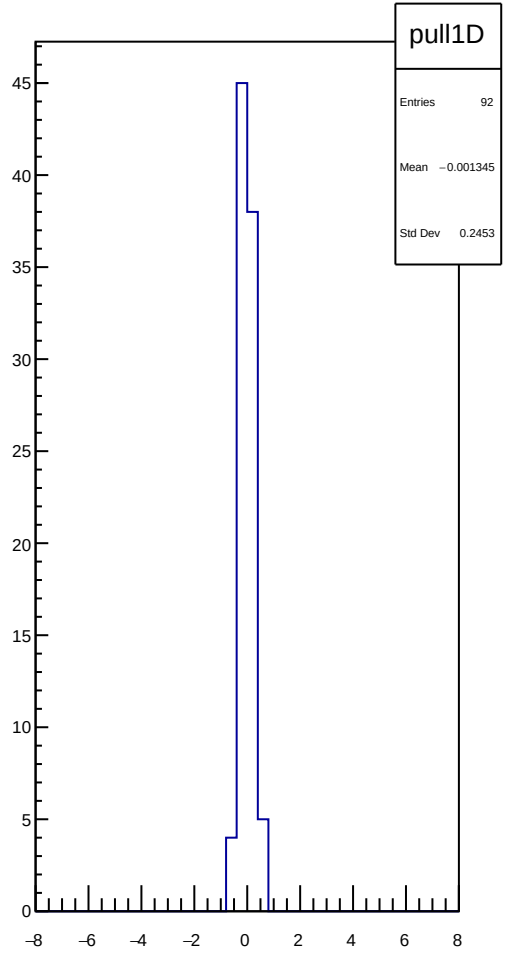

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 105.1 / 91
p0 −17.32 ± 2.389
pull
Entries 92
Mean −1042
Std Dev 0

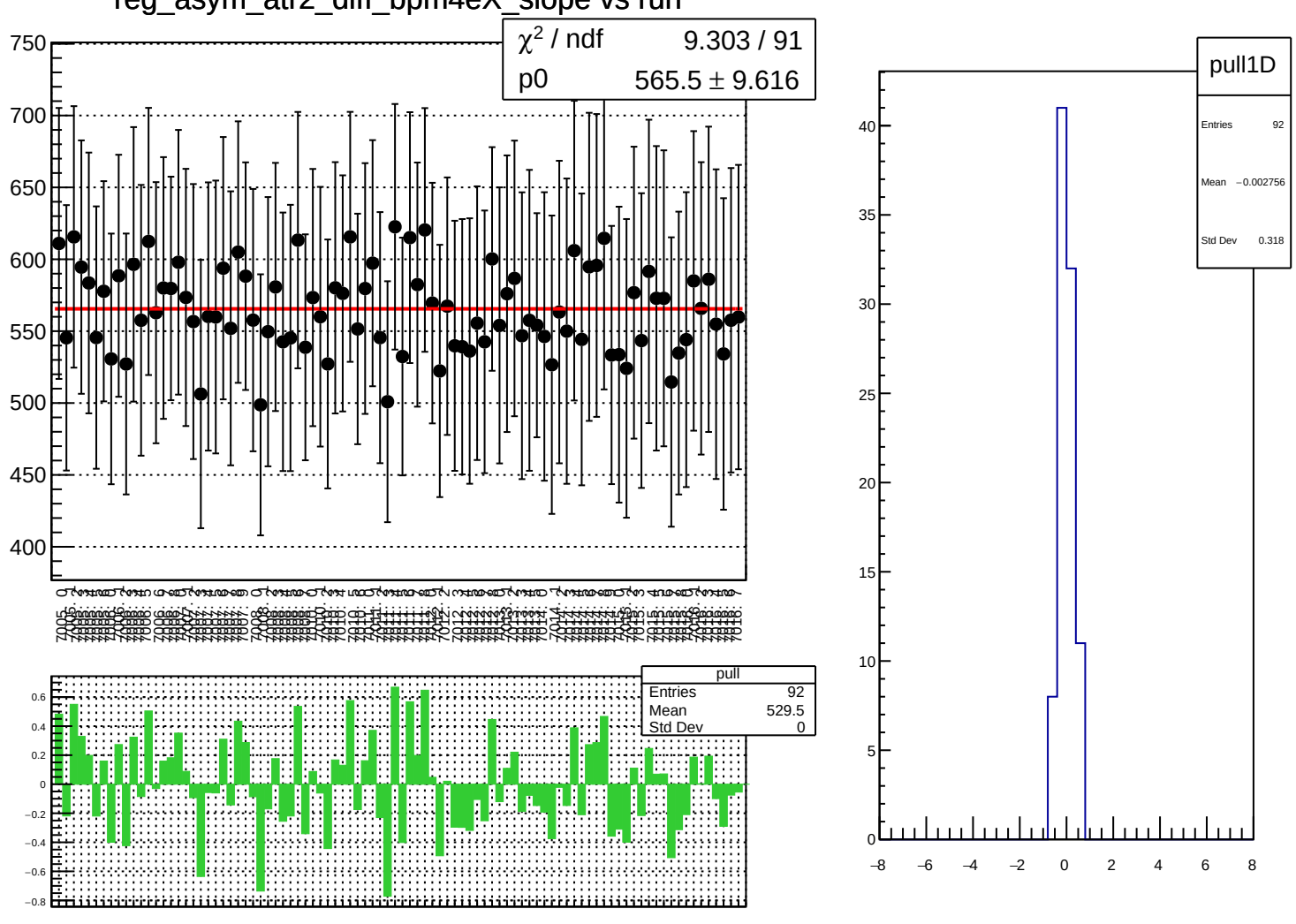

pull1D
Entries 92
Mean −0.007926
Std Dev 1.069

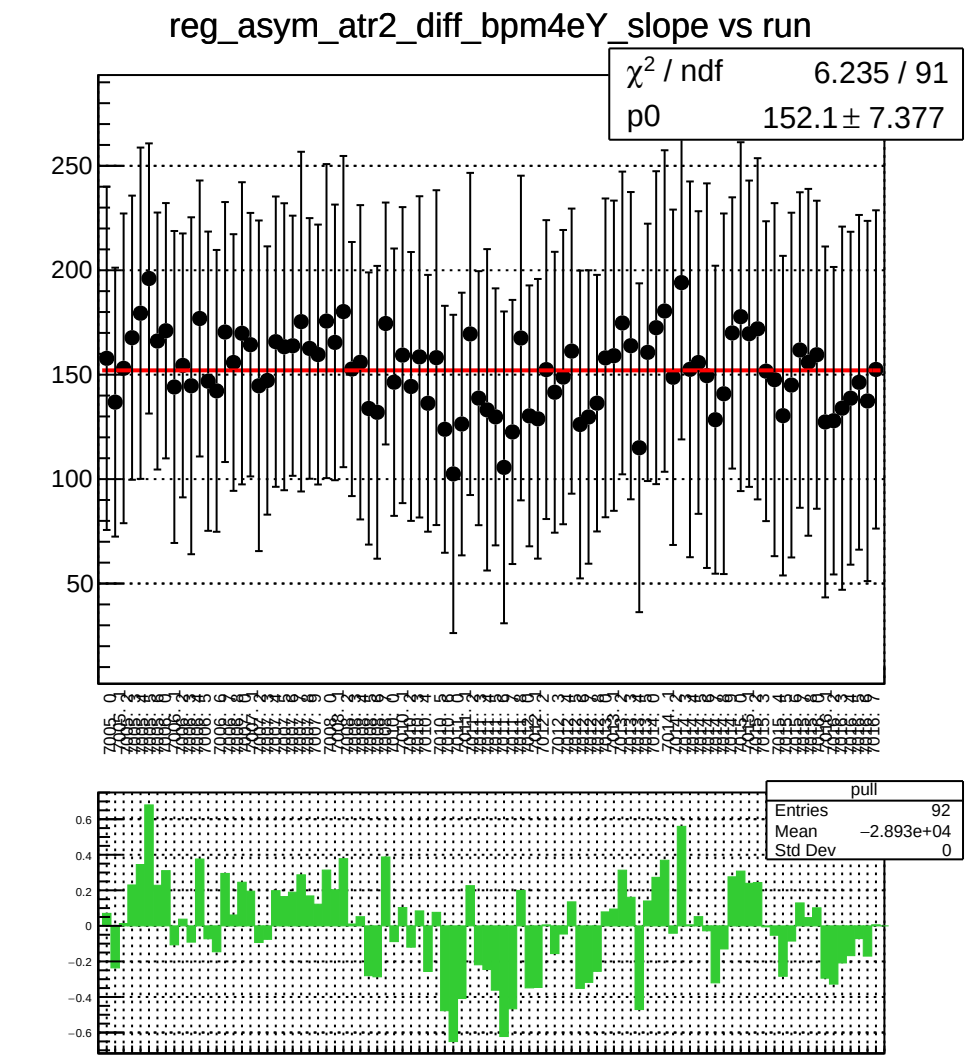

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 111.9 / 91
p0 −15.71 ± 0.1074
pull
Entries 92
Mean 788.3
Std Dev 0
pull1D
Entries 92
Mean 0.004828
Std Dev 1.103

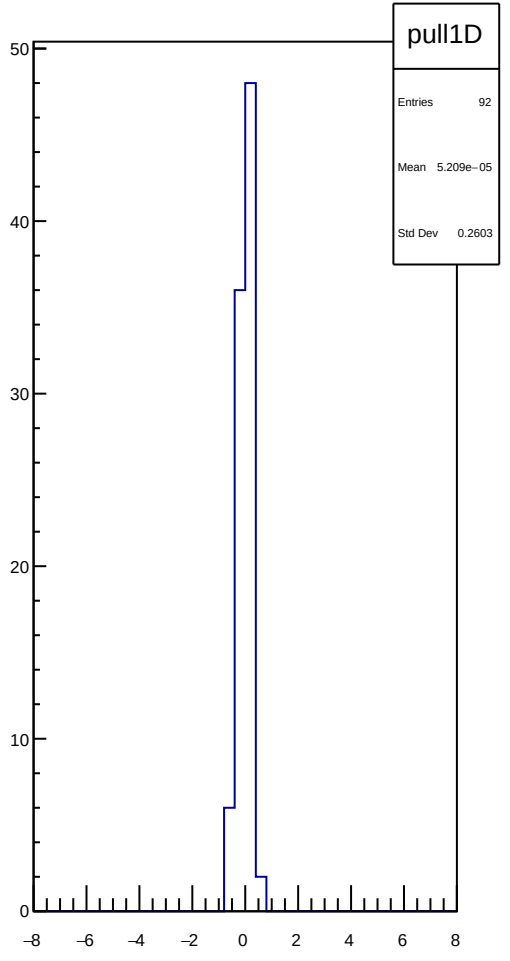

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 9.794 / 91
p0 −492.5 ± 10.39
pull
Entries 92
Mean 429.9
Std Dev 0
pull1D
Entries 92
Mean 0.003042
Std Dev 0.3263

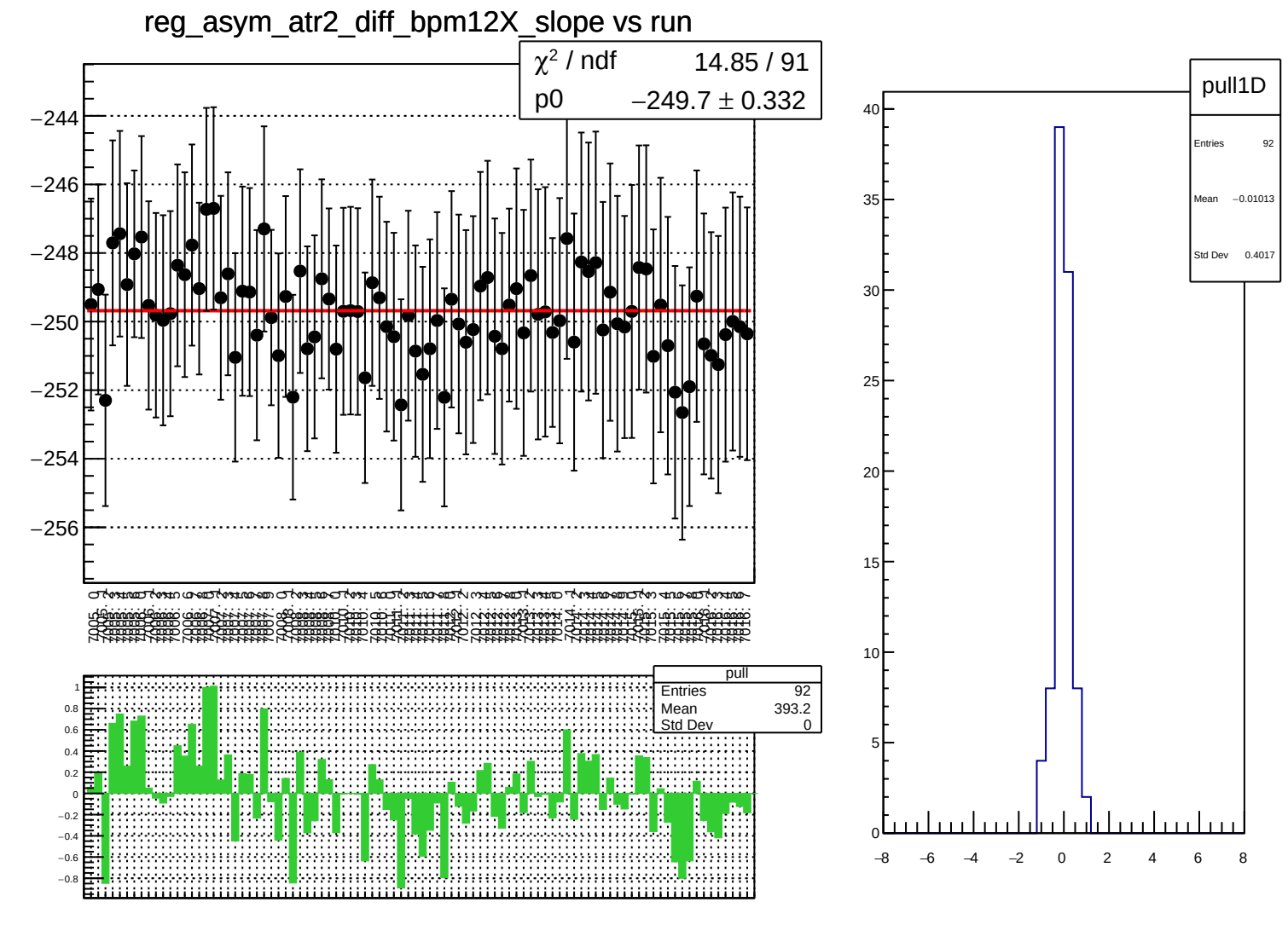

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.537 / 91
p0 −20.15 ± 7.041
100
50
0
−50
−100
−150
pull
Entries 92
Mean −544
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

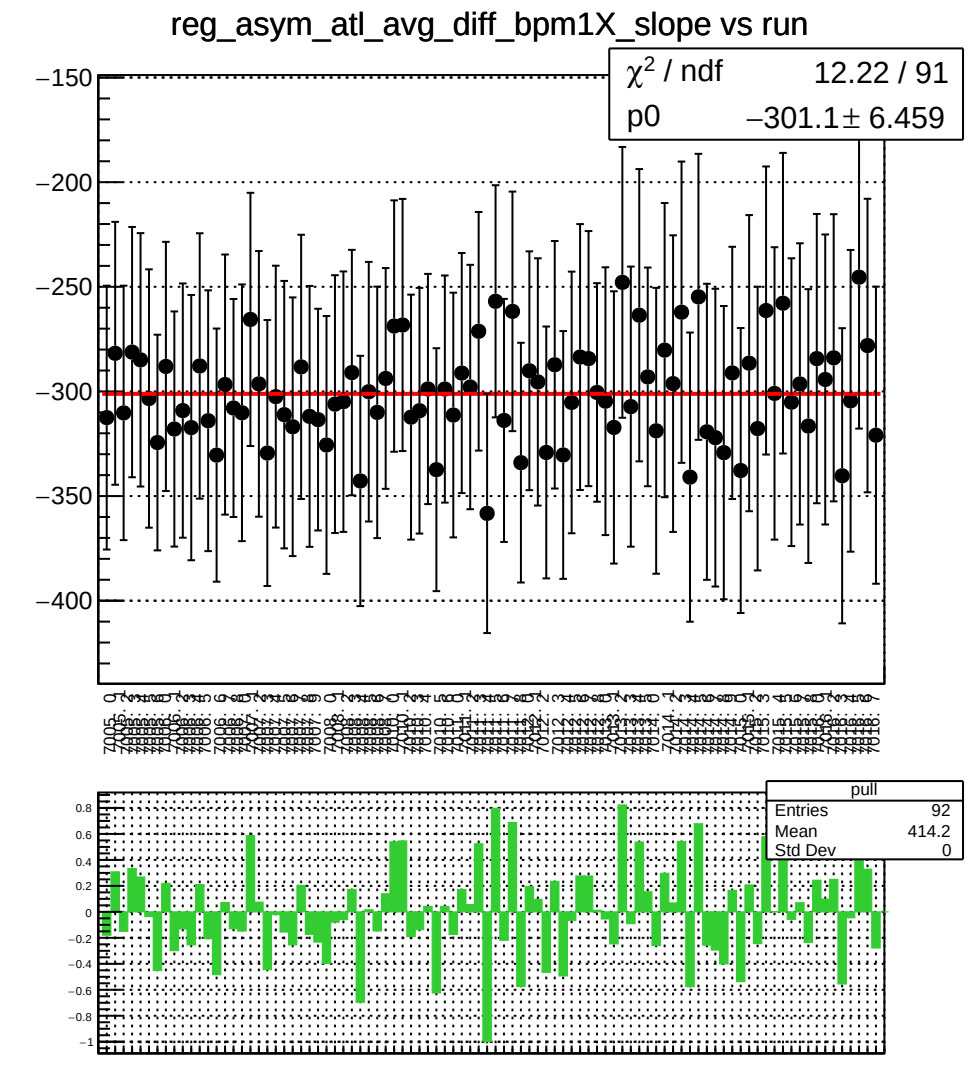

pull1D
Entries 92
Mean −0.001345
Std Dev 0.2453
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

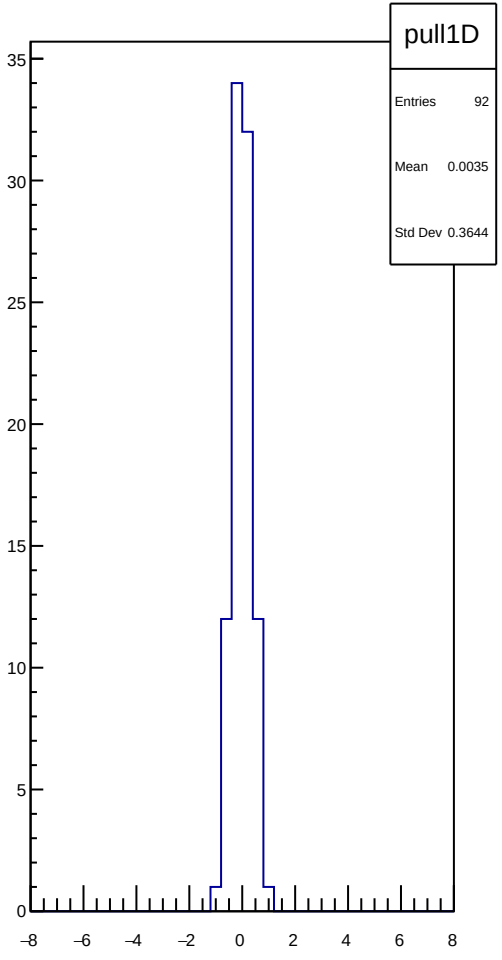

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 9.303 / 91
p0 565.5 ± 9.616
pull
Entries 92
Mean 529.5
Std Dev 0
pull1D
Entries 92
Mean −0.002756
Std Dev 0.318

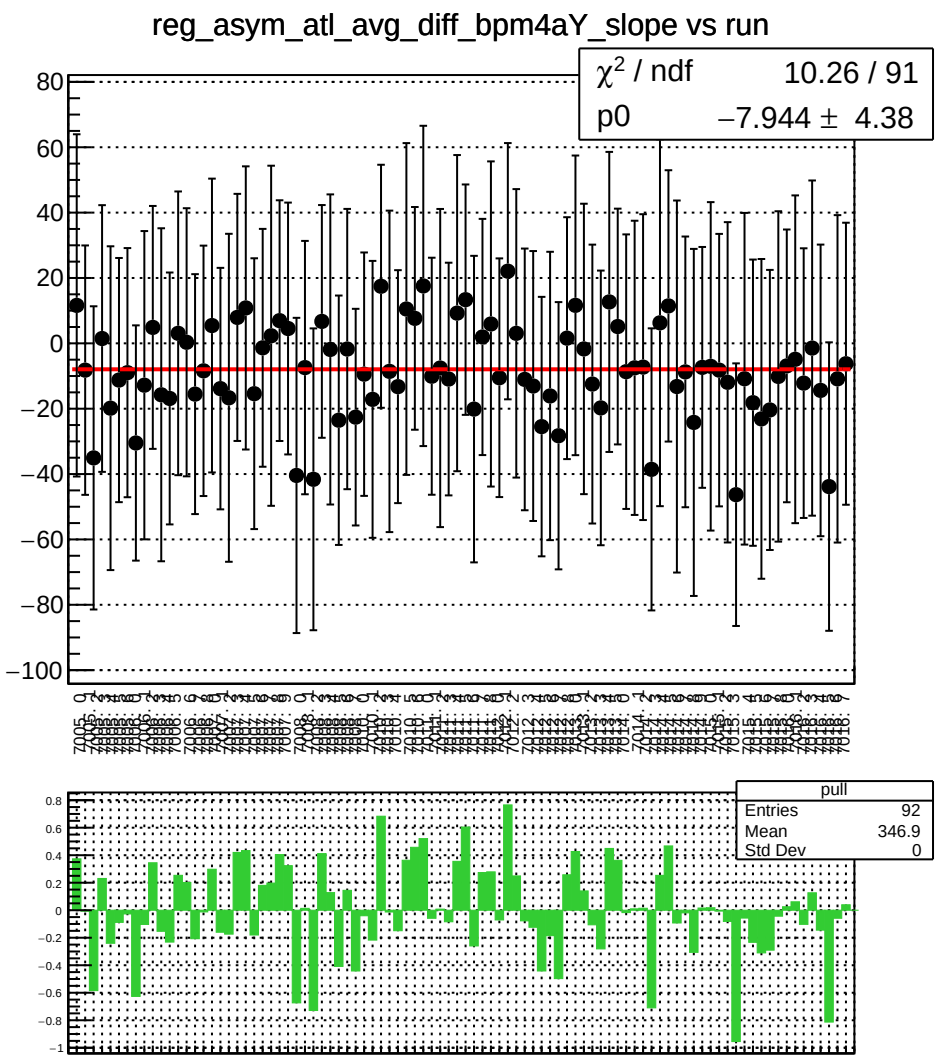

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 6.235 / 91
p0 152.1 ± 7.377
250
200
150
100
50
pull
Entries 92
Mean −2.893e+04
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

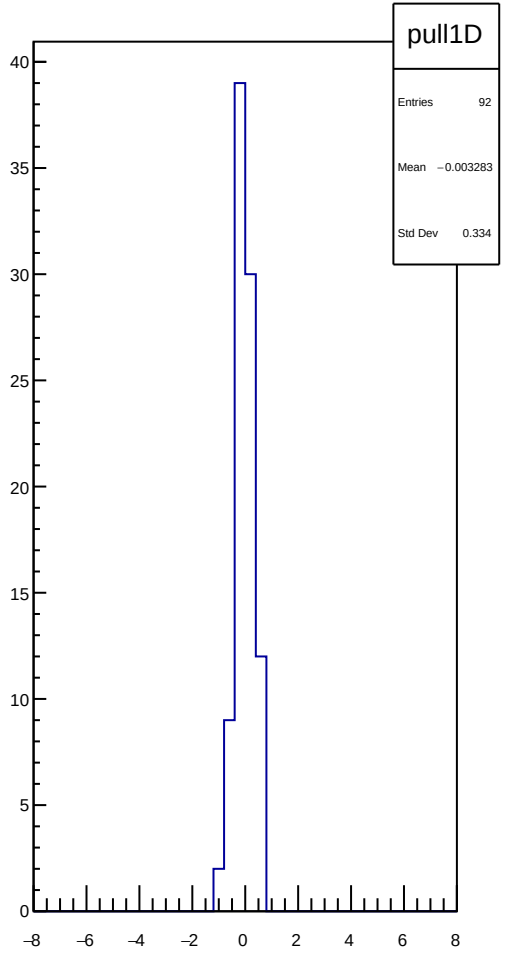

pull1D
Entries 92
Mean 5.209e−05
Std Dev 0.2603
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

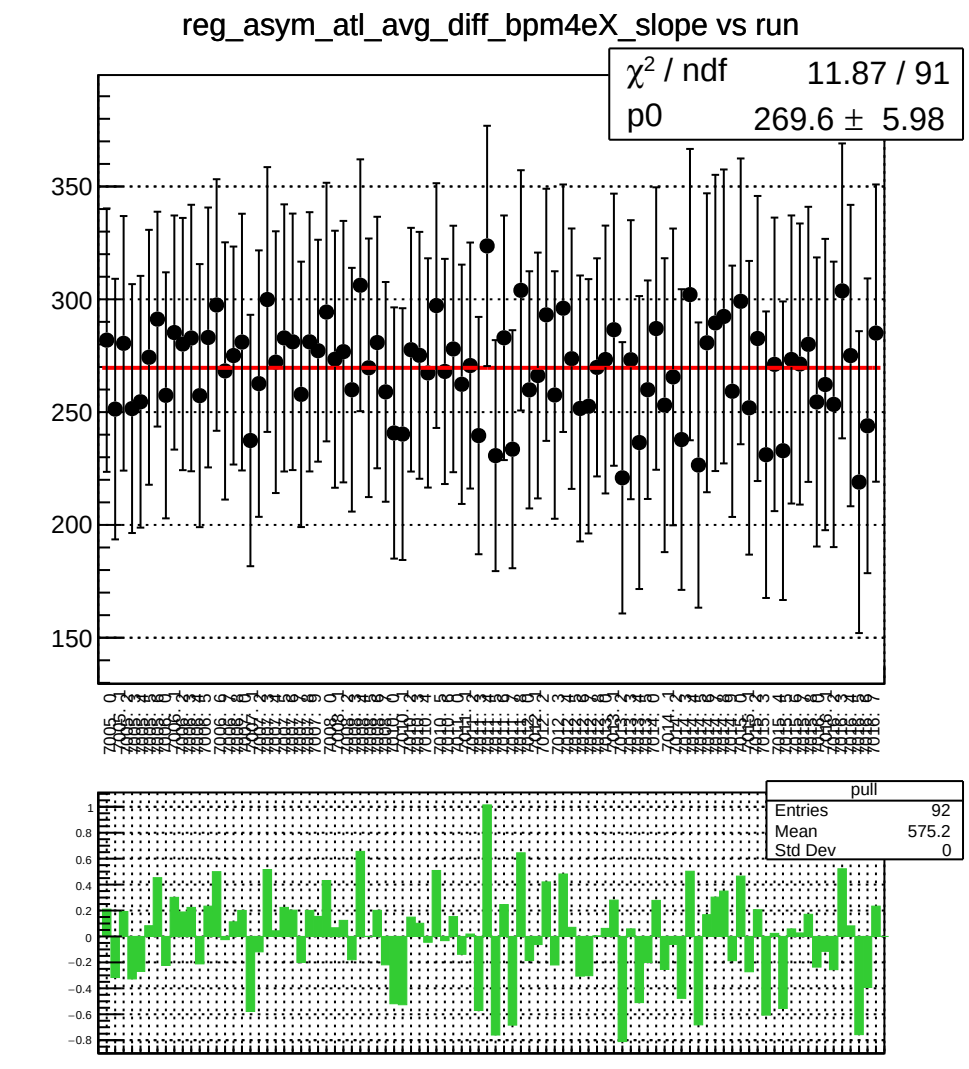

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 14.85 / 91
p0 −249.7 ± 0.332
−244
−246
−248
−250
−252
−254
−256
pull
Entries 92
Mean 393.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.01013
Std Dev 0.4017
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

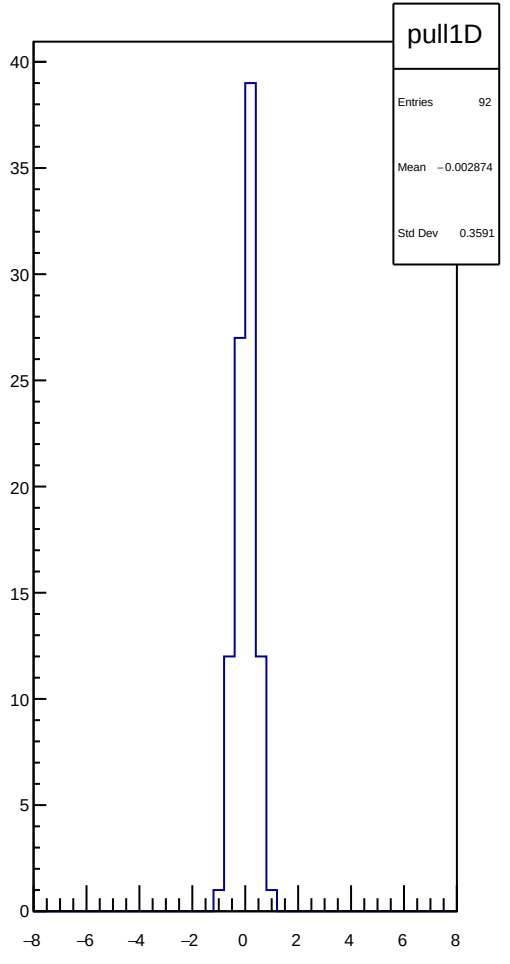

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 12.22 / 91
p0 −301.1± 6.459
pull
Entries 92
Mean 414.2
Std Dev 0

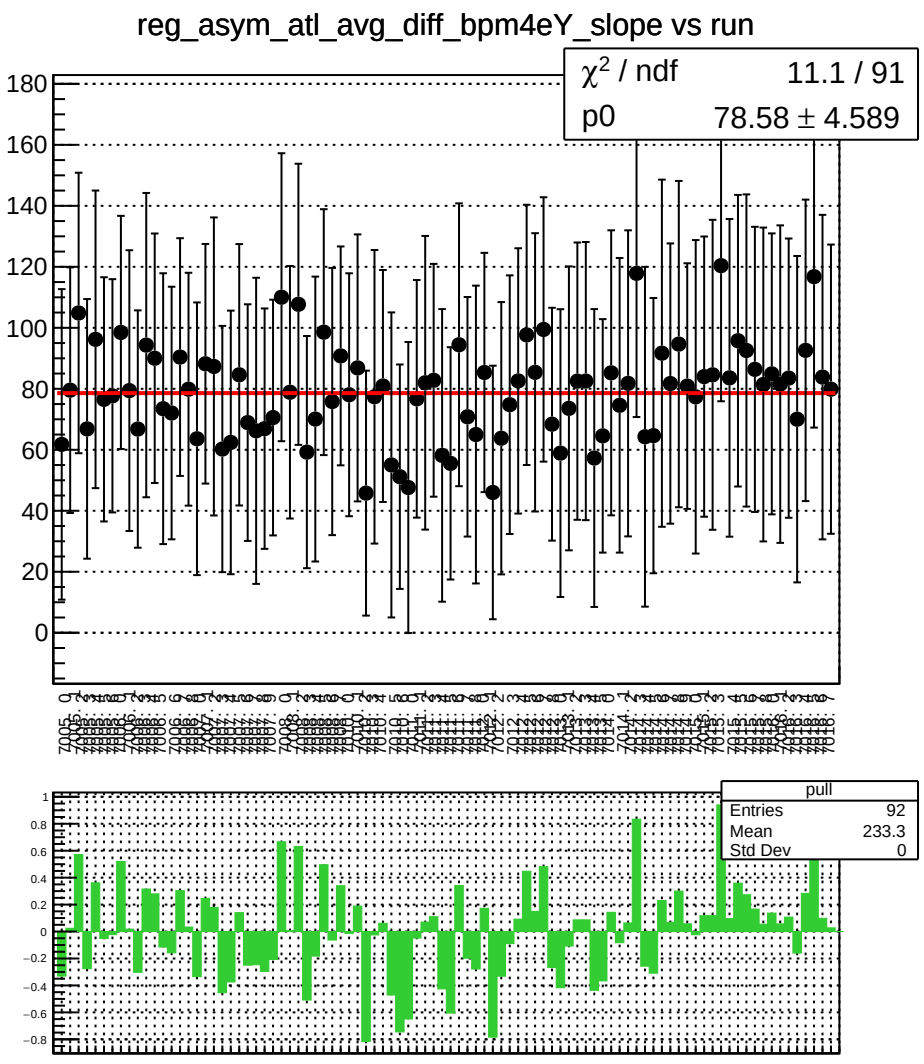

pull1D
Entries 92
Mean 0.0035
Std Dev 0.3644

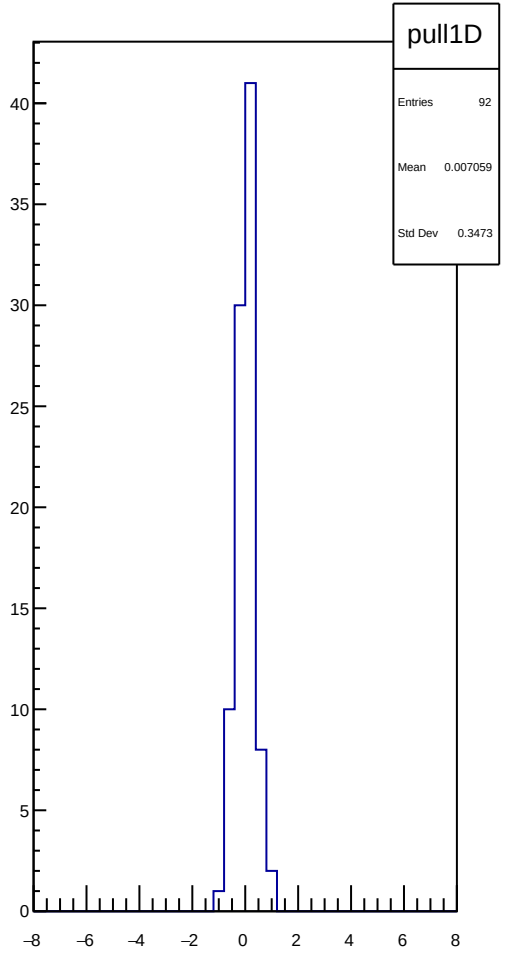

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.26 / 91
p0 −7.944 ± 4.38
pull
Entries 92
Mean 346.9
Std Dev 0

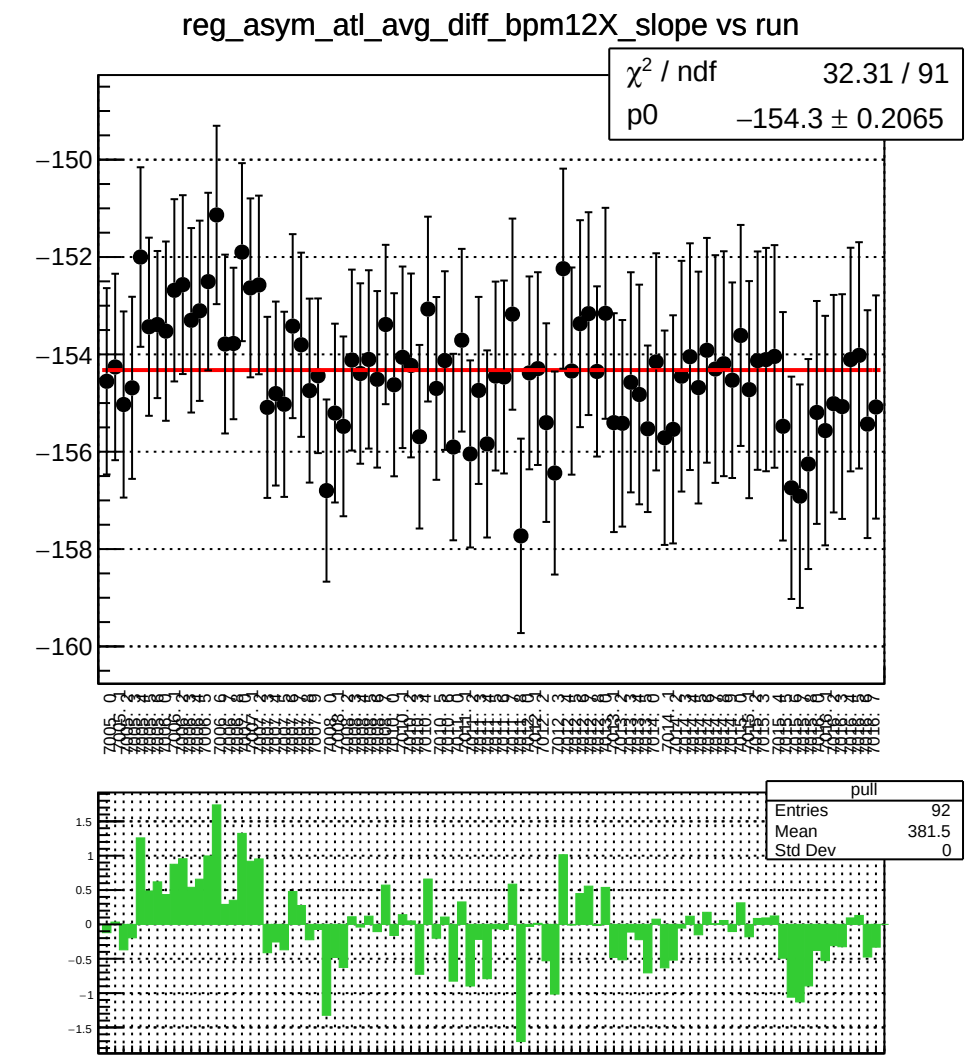

pull1D
Entries 92
Mean −0.003283
Std Dev 0.334

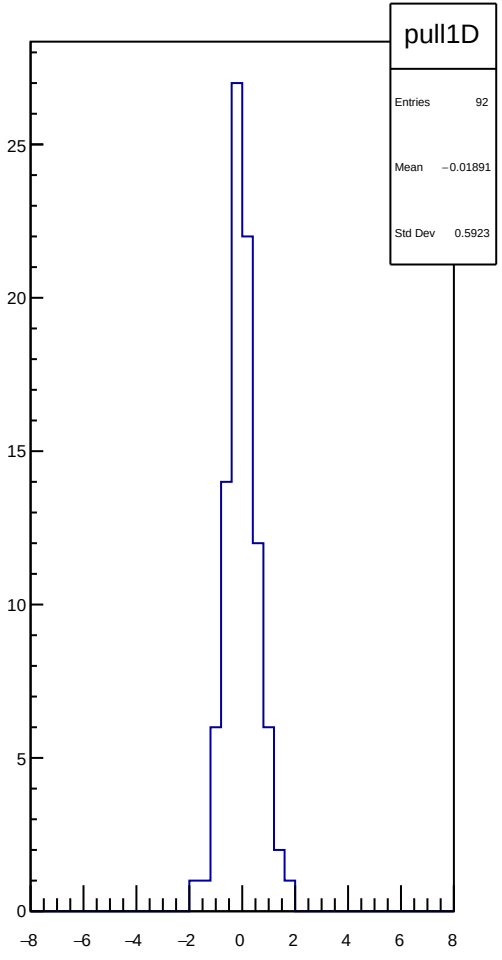

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.87 / 91
p0 269.6 ± 5.98
350
300
250
200
150
pull
Entries 92
Mean 575.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

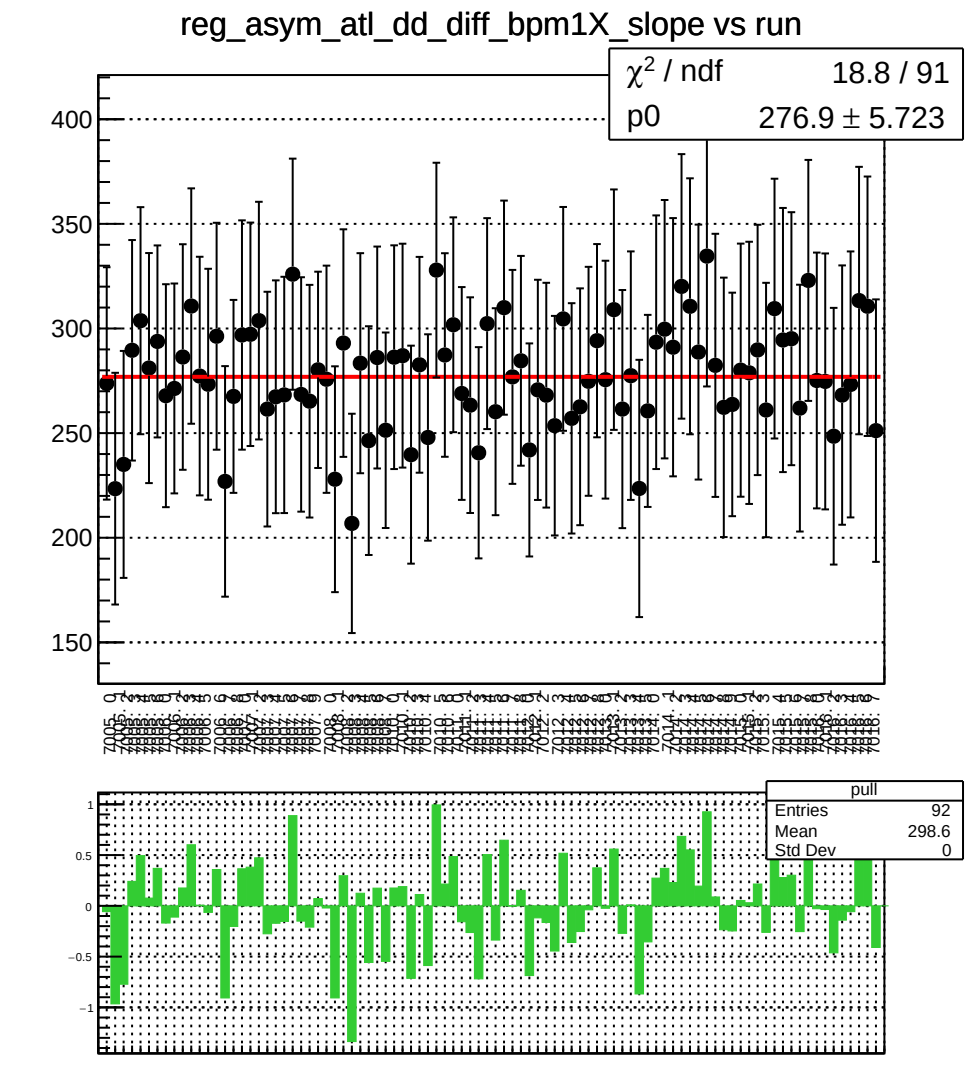

pull1D
Entries 92
Mean −0.002874
Std Dev 0.3591
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

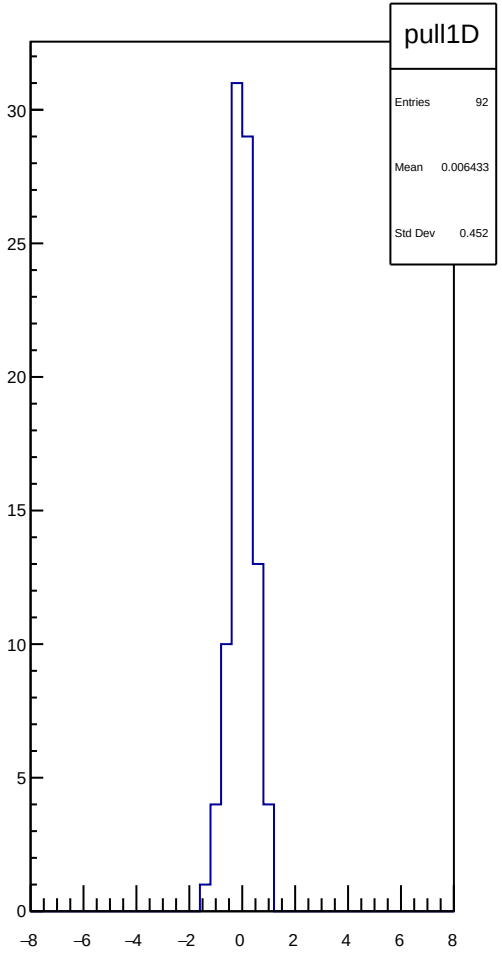

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.1 / 91
p0 78.58 ± 4.589
pull
Entries 92
Mean 233.3
Std Dev 0

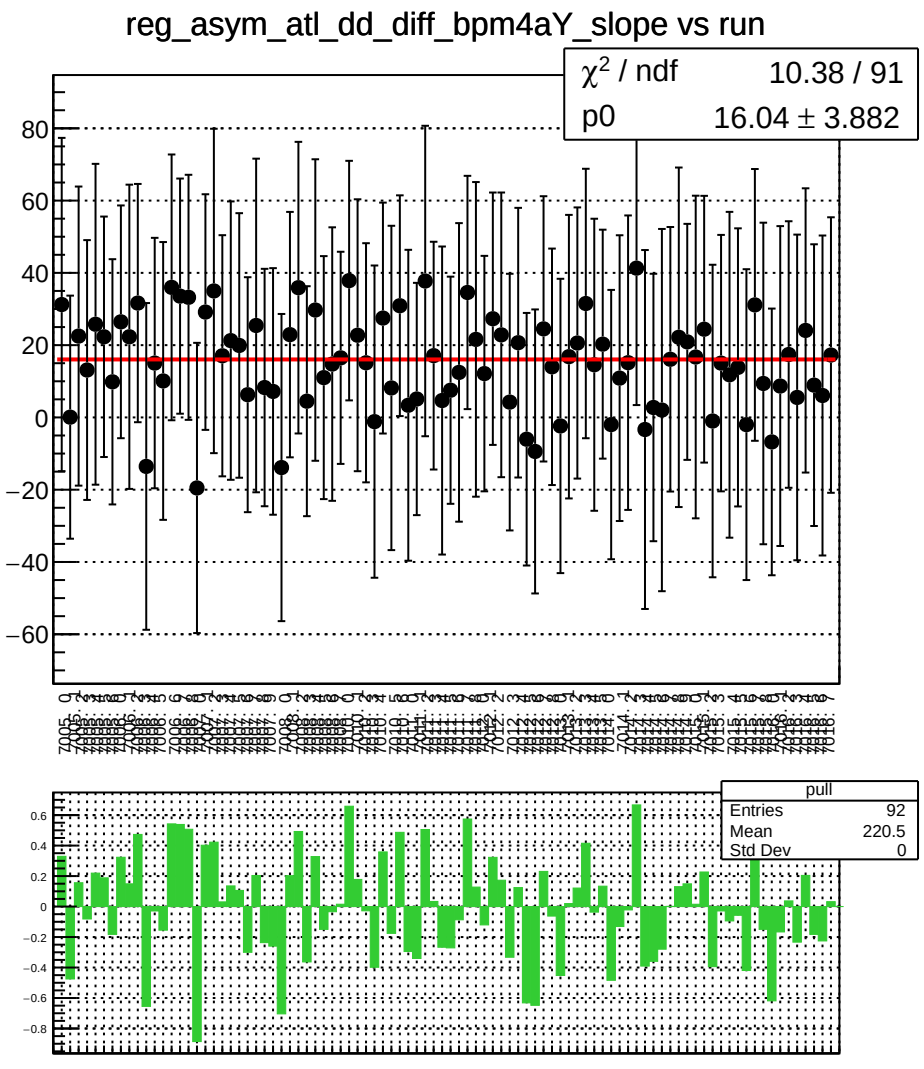

pull1D
Entries 92
Mean 0.007059
Std Dev 0.3473

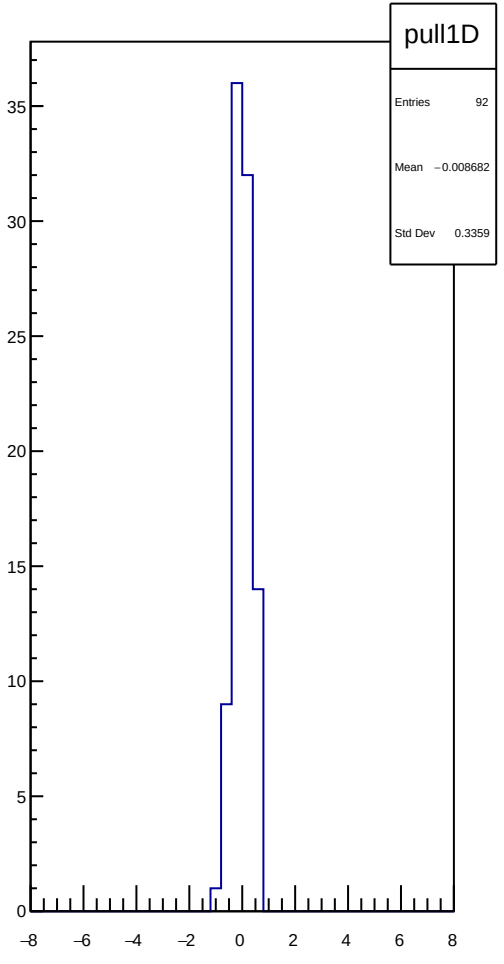

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 32.31 / 91
p0 −154.3 ± 0.2065
−150
−152
−154
−156
−158
−160
pull
Entries 92
Mean 381.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

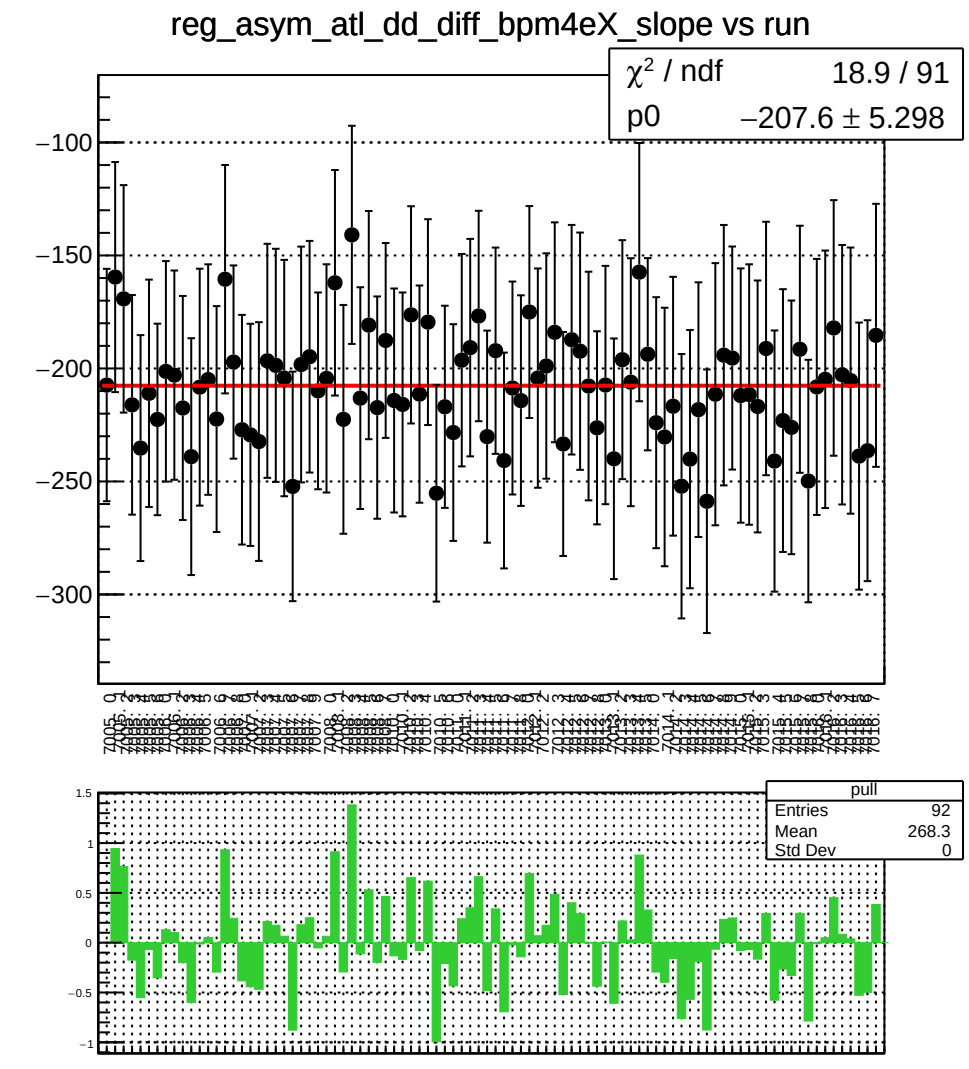

pull1D
Entries 92
Mean −0.01891
Std Dev 0.5923
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

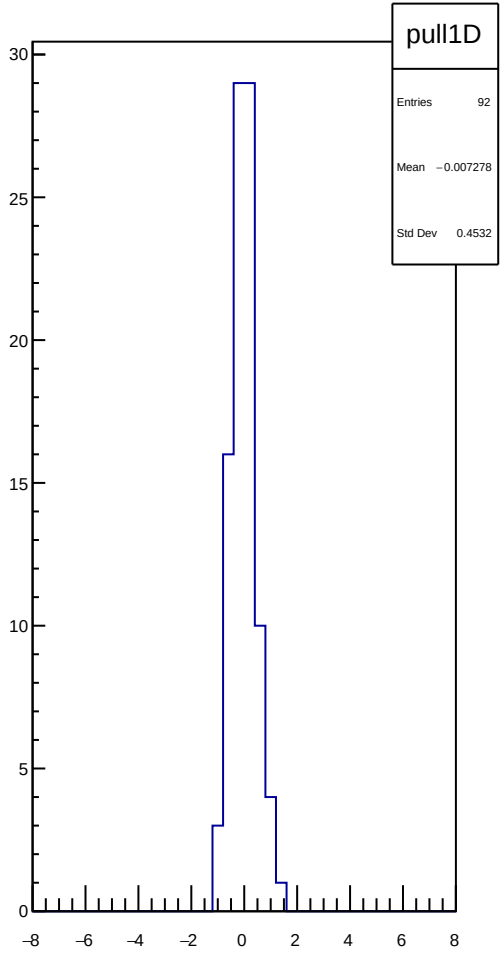

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 18.8 / 91
p0 276.9 ± 5.723
pull
Entries 92
Mean 298.6
Std Dev 0

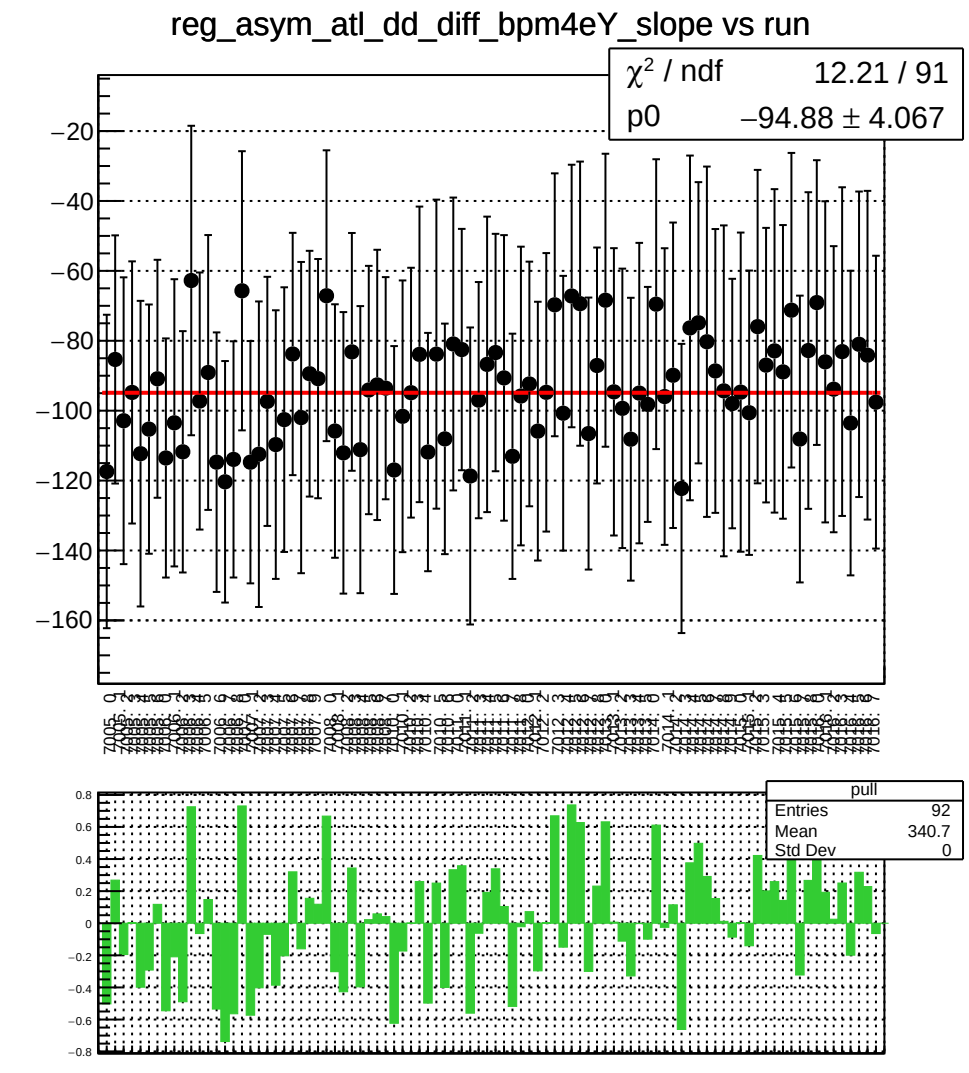

pull1D
Entries 92
Mean 0.006433
Std Dev 0.452

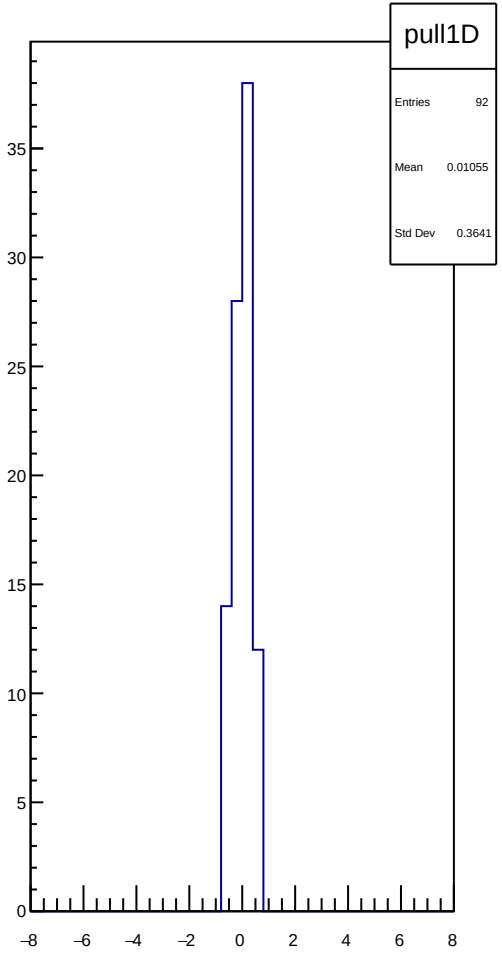

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.38 / 91
p0 16.04 ± 3.882
pull
Entries 92
Mean 220.5
Std Dev 0

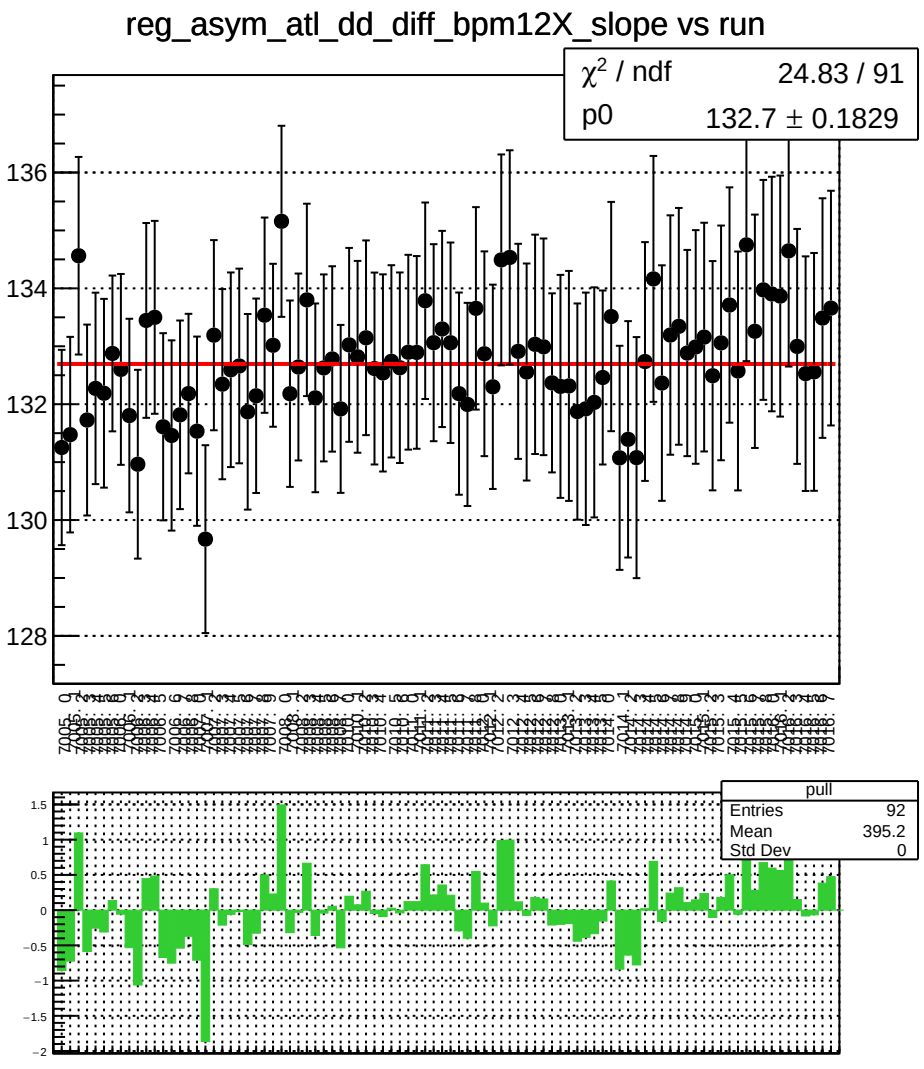

pull1D
Entries 92
Mean −0.008682
Std Dev 0.3359

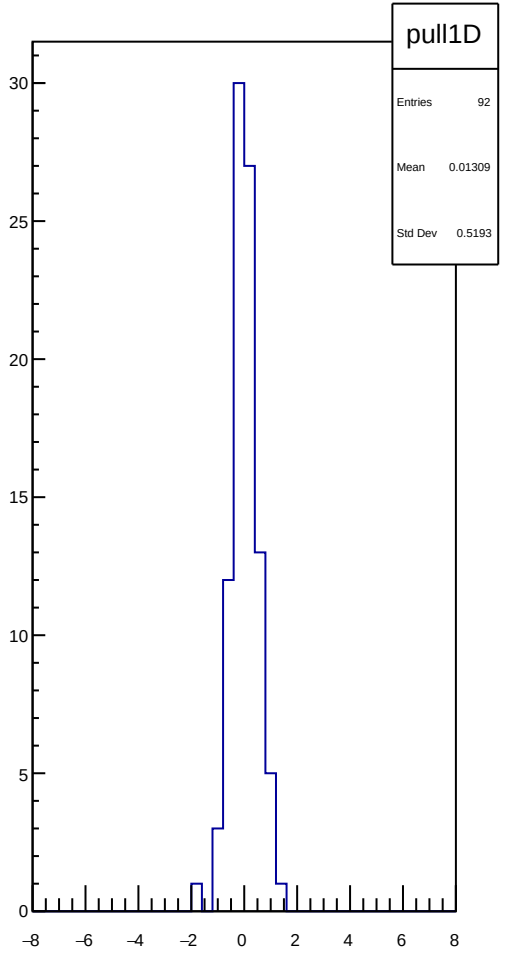

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.9 / 91
p0 −207.6 ± 5.298
−100
−150
−200
−250
−300
pull
Entries 92
Mean 268.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

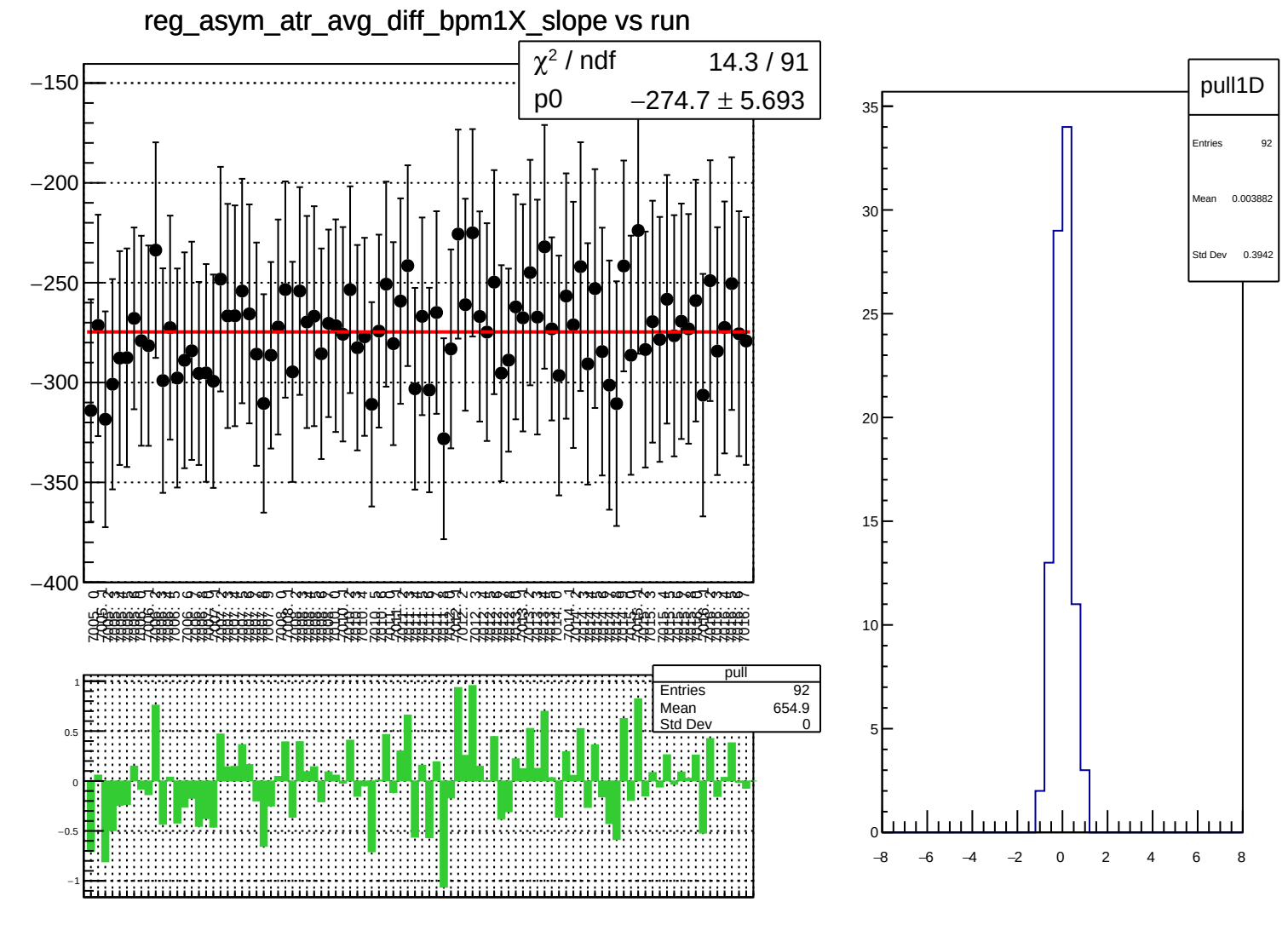

pull1D
Entries 92
Mean −0.007278
Std Dev 0.4532
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

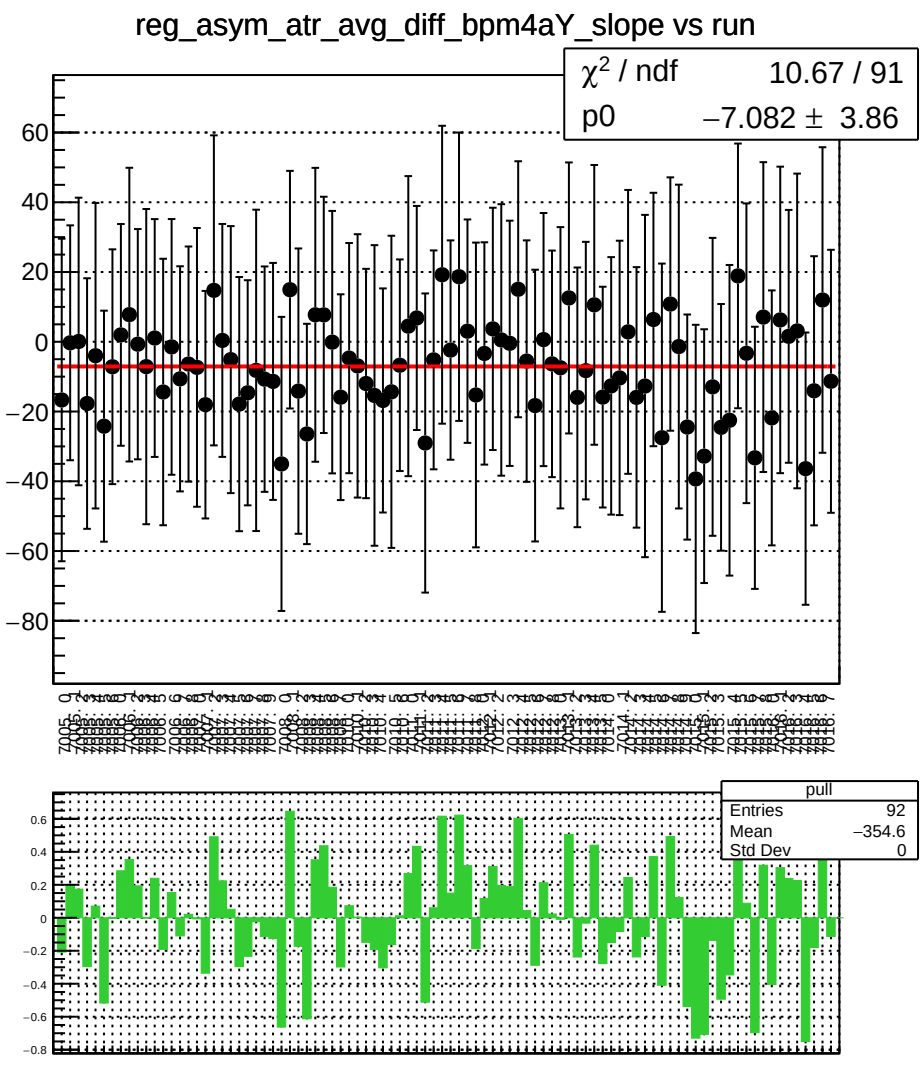

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.21 / 91
p0 −94.88 ± 4.067
pull
Entries 92
Mean 340.7
Std Dev 0

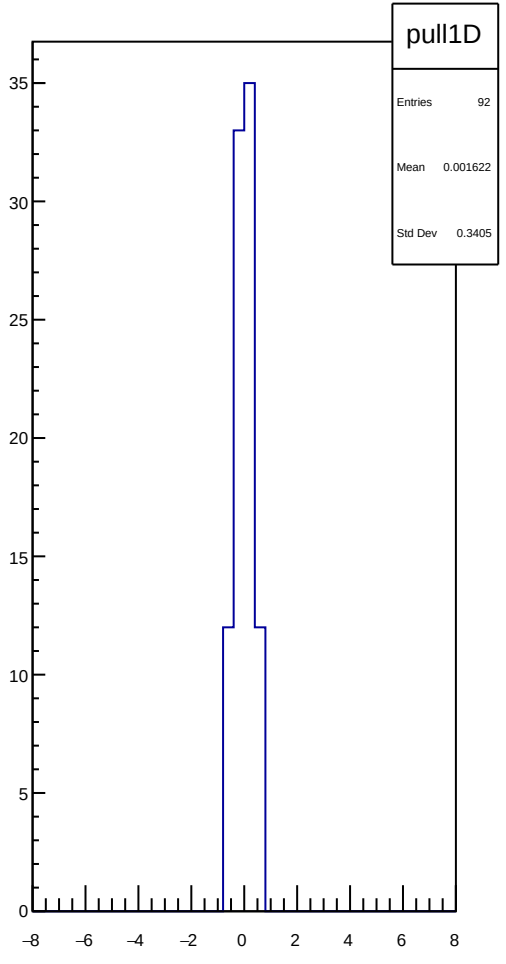

pull1D
Entries 92
Mean 0.01055
Std Dev 0.3641

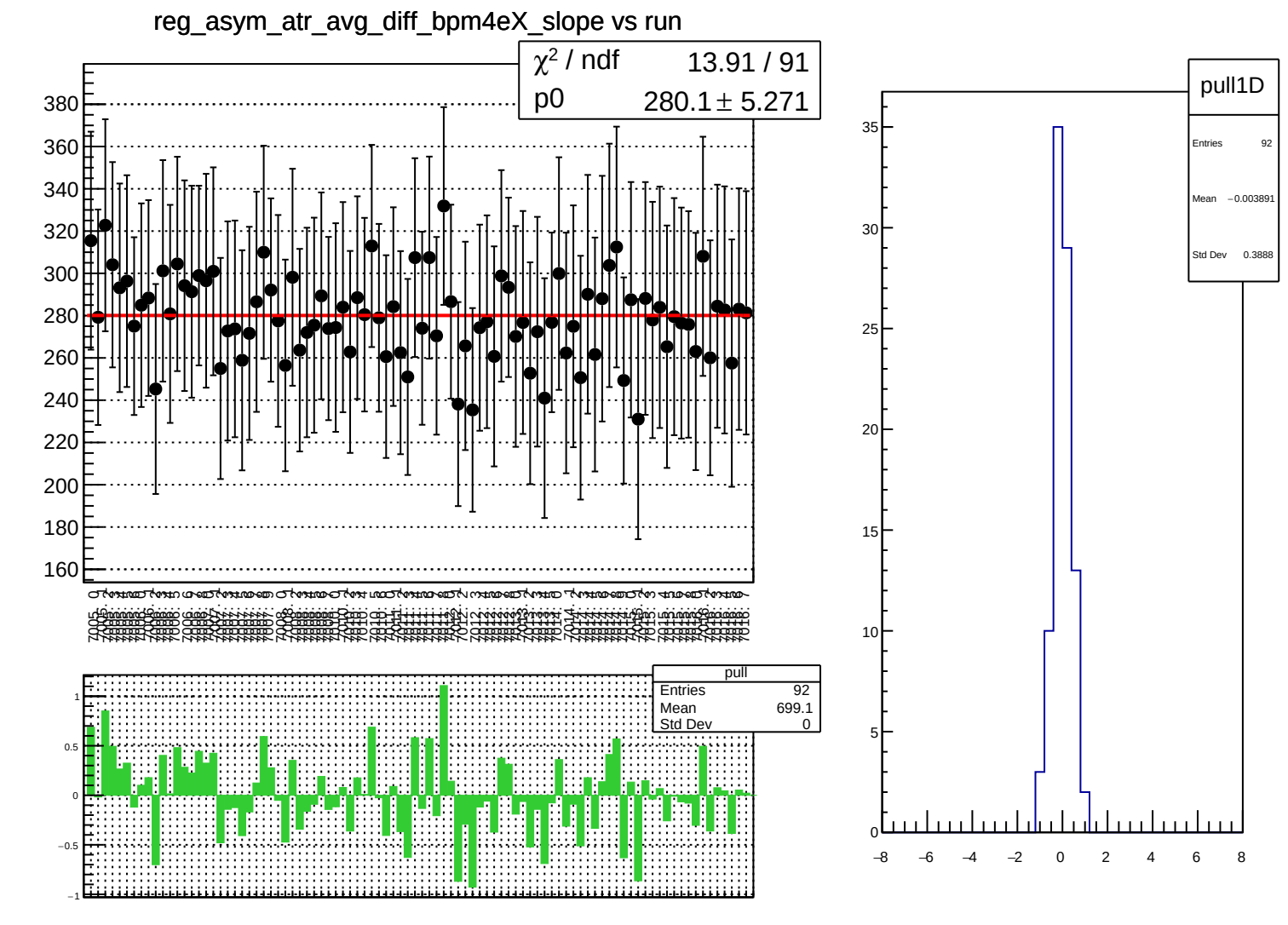

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 24.83 / 91
p0 132.7 ± 0.1829
136
134
132
130
128
pull
Entries 92
Mean 395.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

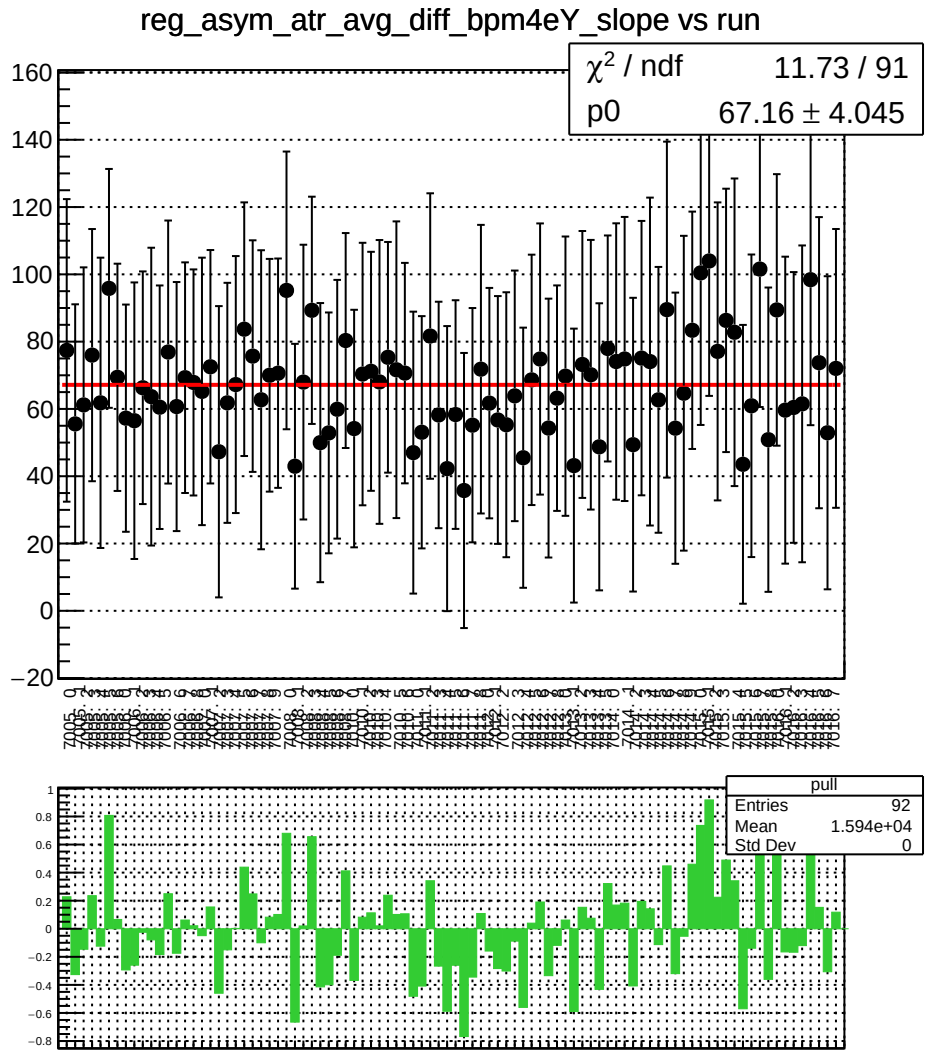

pull1D
Entries 92
Mean 0.01309
Std Dev 0.5193
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

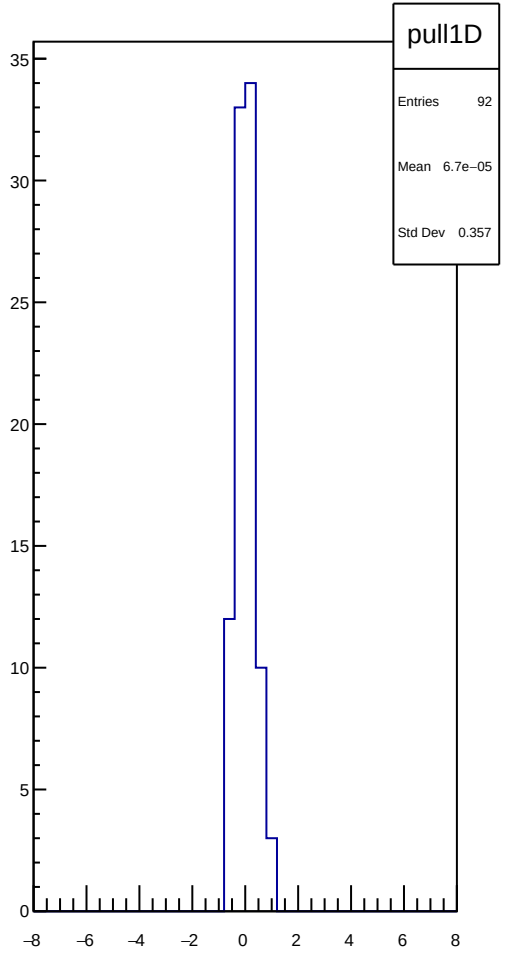

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 14.3 / 91
p0 −274.7 ± 5.693
−150
−200
−250
−300
−350
−400
pull
Entries 92
Mean 654.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.003882
Std Dev 0.3942
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

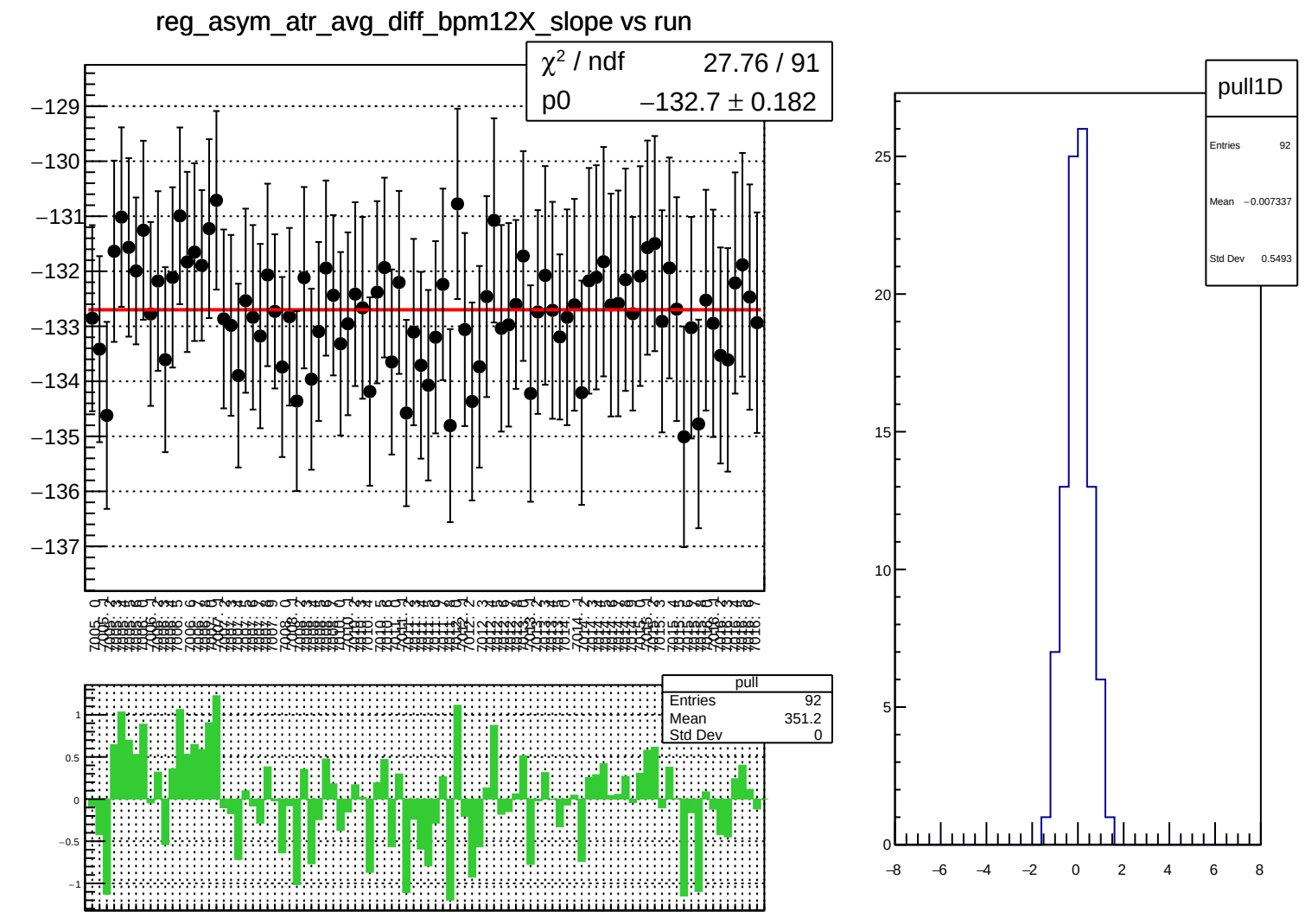

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.67 / 91
p0 −7.082 ± 3.86
pull
Entries 92
Mean −354.6
Std Dev 0

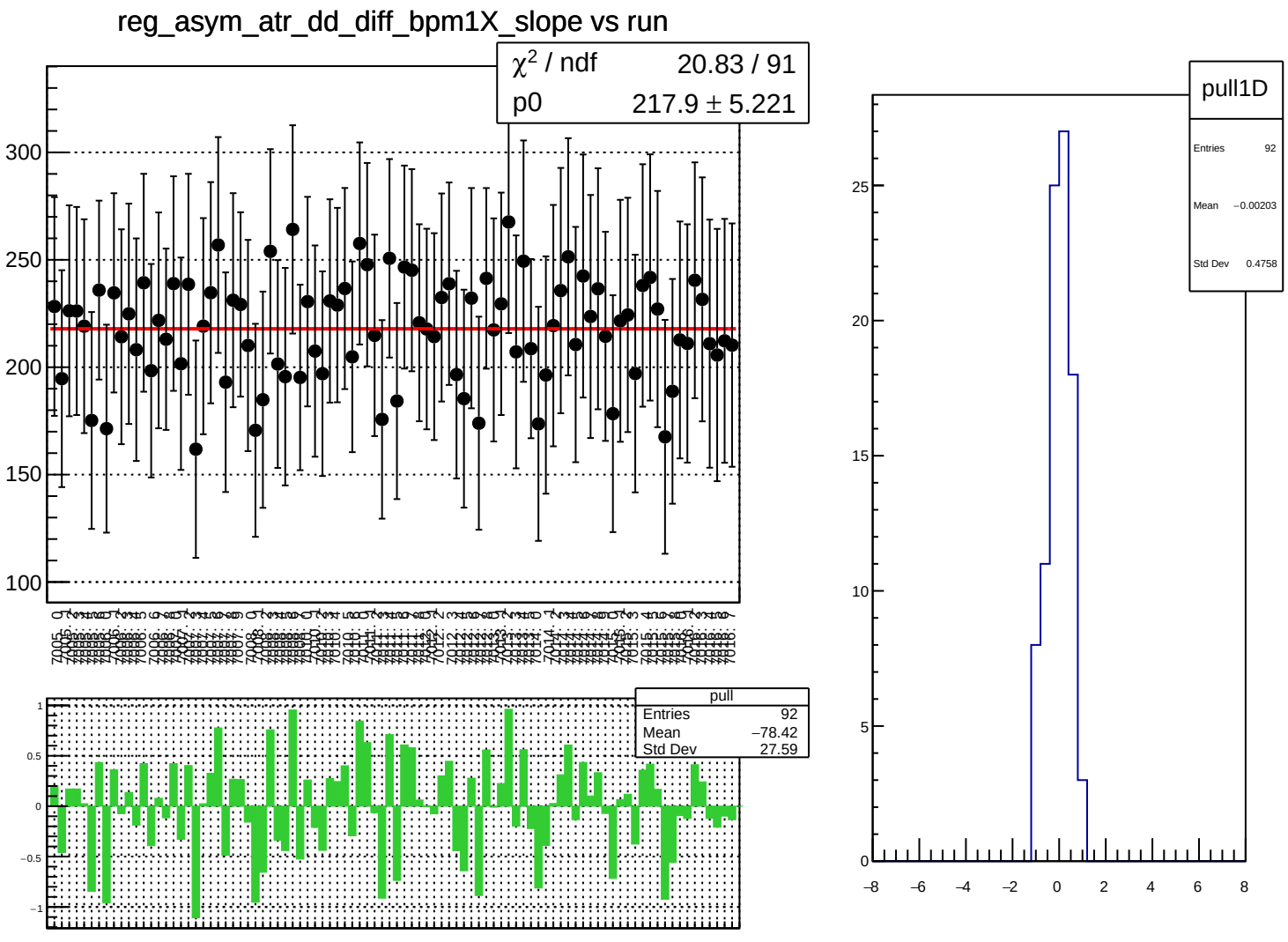

pull1D
Entries 92
Mean 0.001622
Std Dev 0.3405

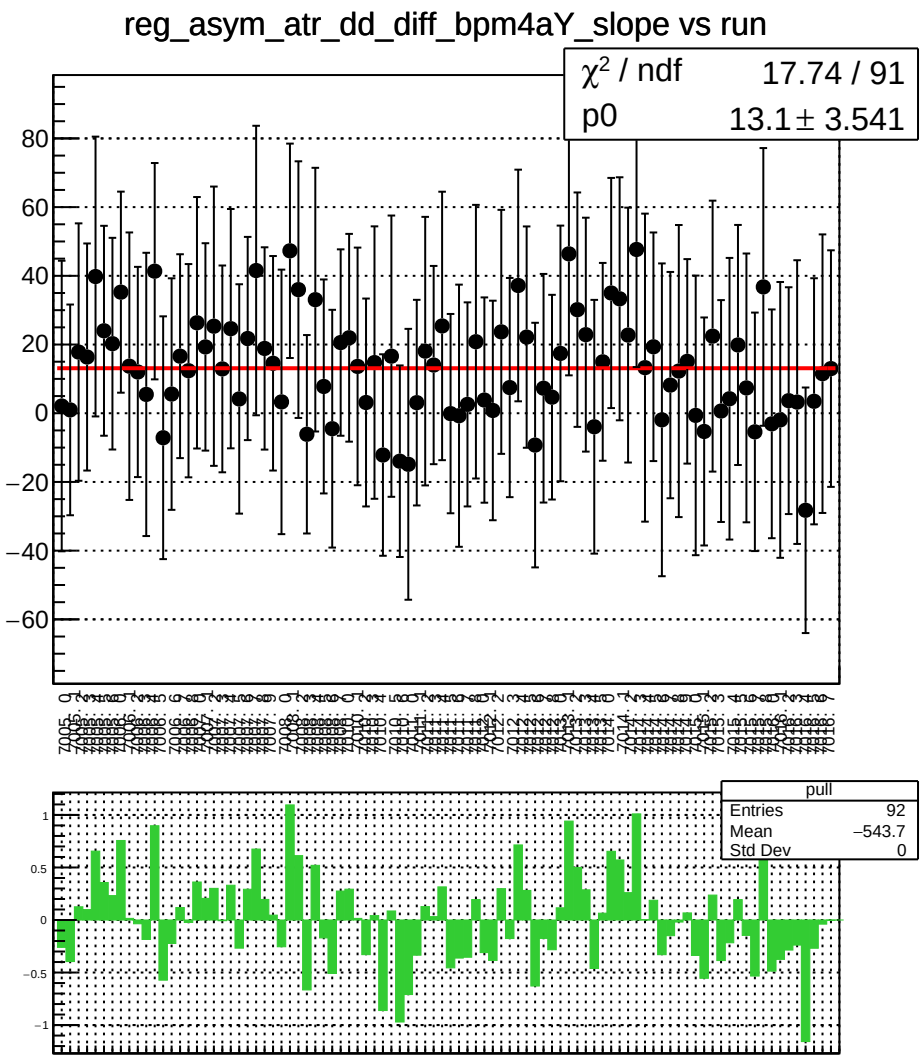

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.91 / 91
p0 280.1 ± 5.271
pull
Entries 92
Mean 699.1
Std Dev 0
pull1D
Entries 92
Mean −0.003891
Std Dev 0.3888

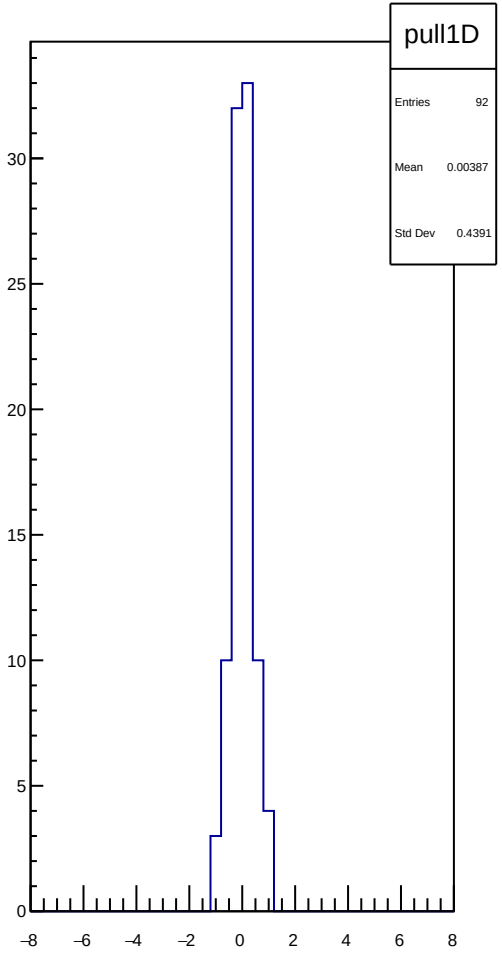

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.73 / 91
p0 67.16 ± 4.045
pull
Entries 92
Mean 1.594e+04
Std Dev 0

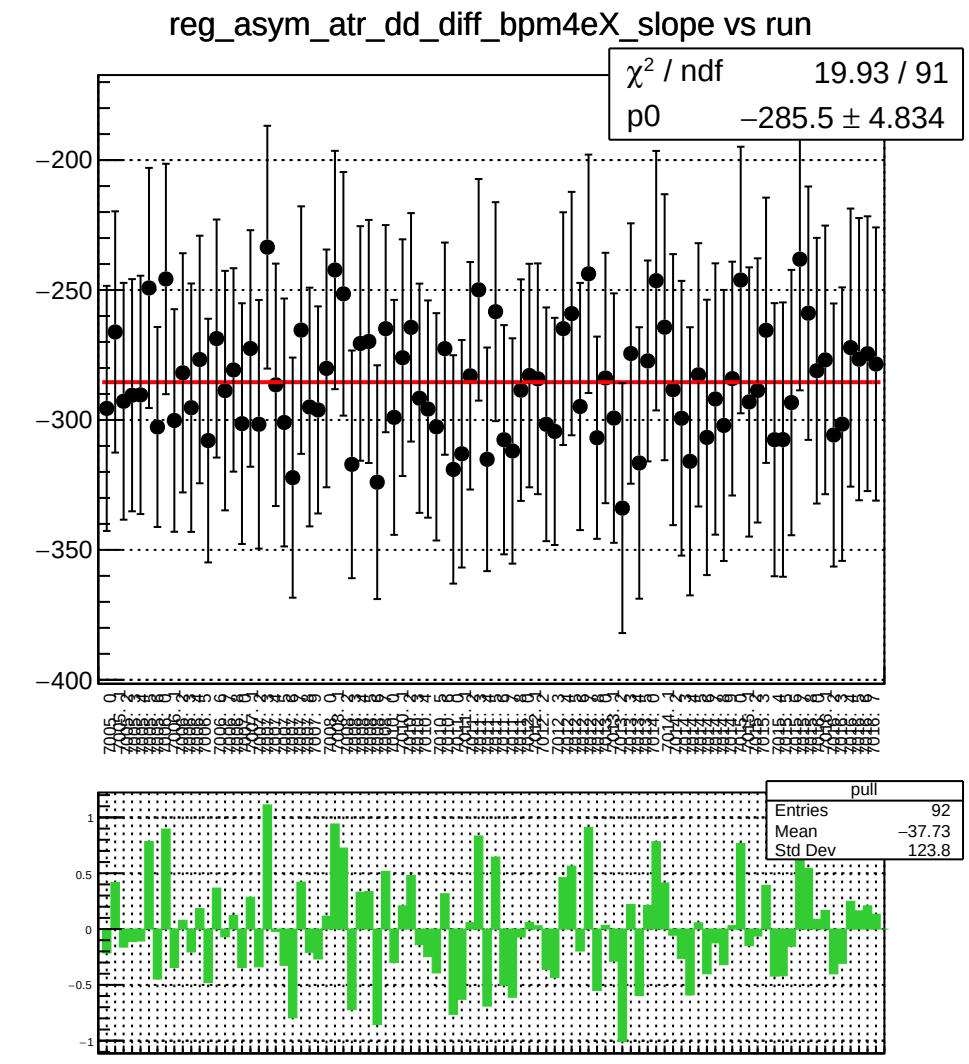

pull1D
Entries 92
Mean 6.7e−05
Std Dev 0.357

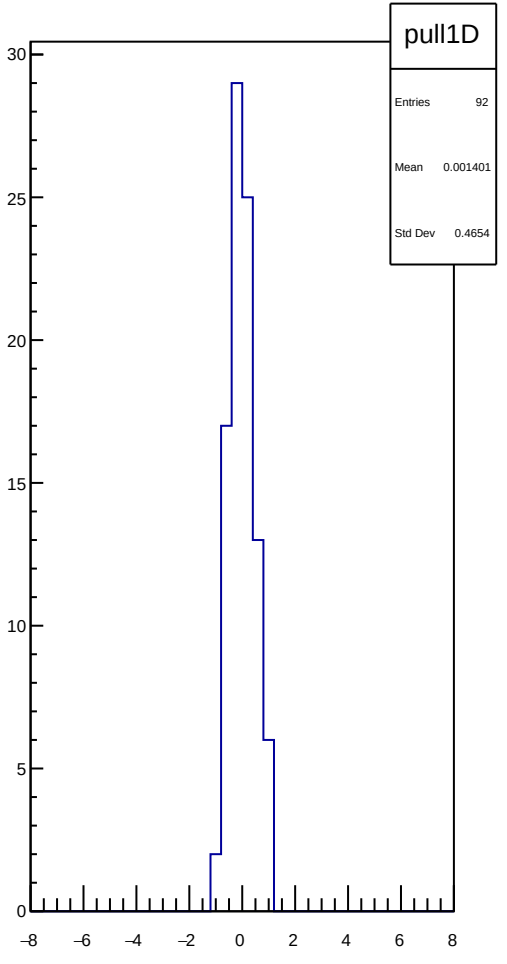

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 27.76 / 91
p0 −132.7 ± 0.182
pull
Entries 92
Mean 351.2
Std Dev 0
pull1D
Entries 92
Mean −0.007337
Std Dev 0.5493

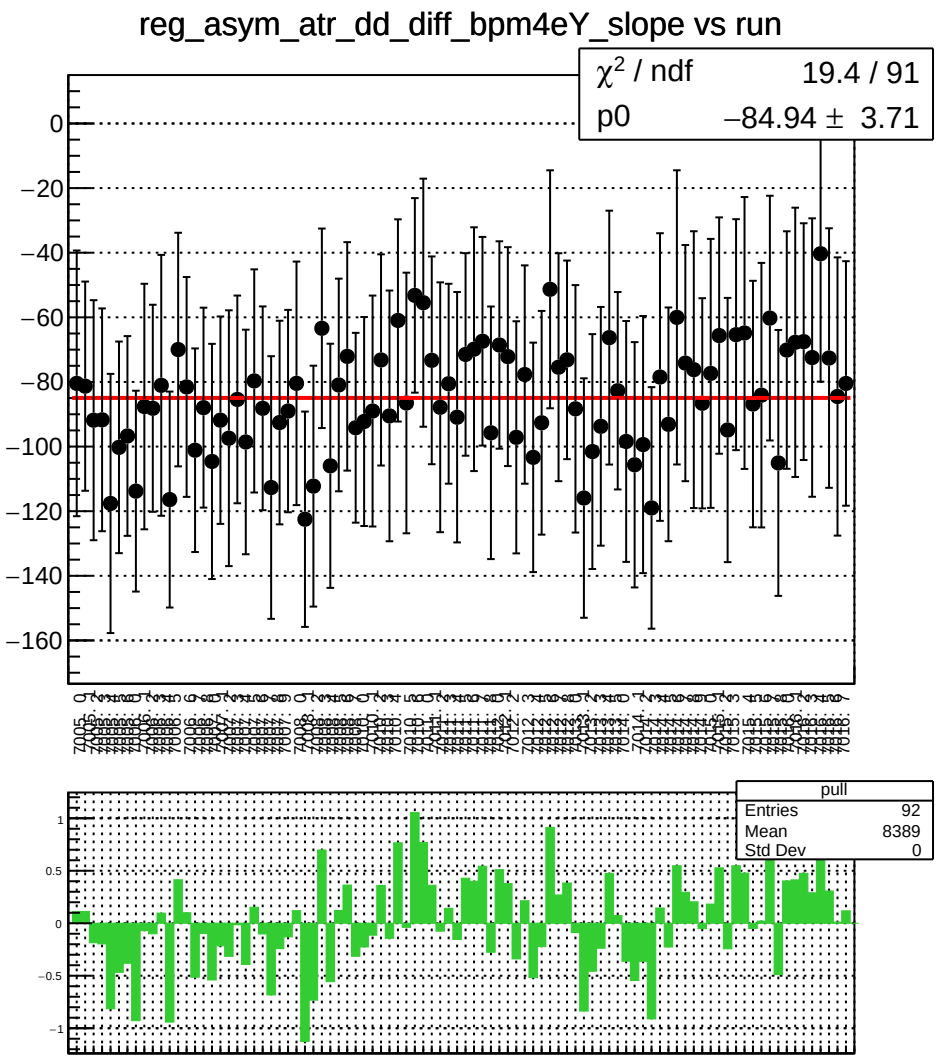

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 20.83 / 91
p0 217.9 ± 5.221
300
250
200
150
100
pull
Entries 92
Mean −78.42
Std Dev 27.59
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.00203
Std Dev 0.4758
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

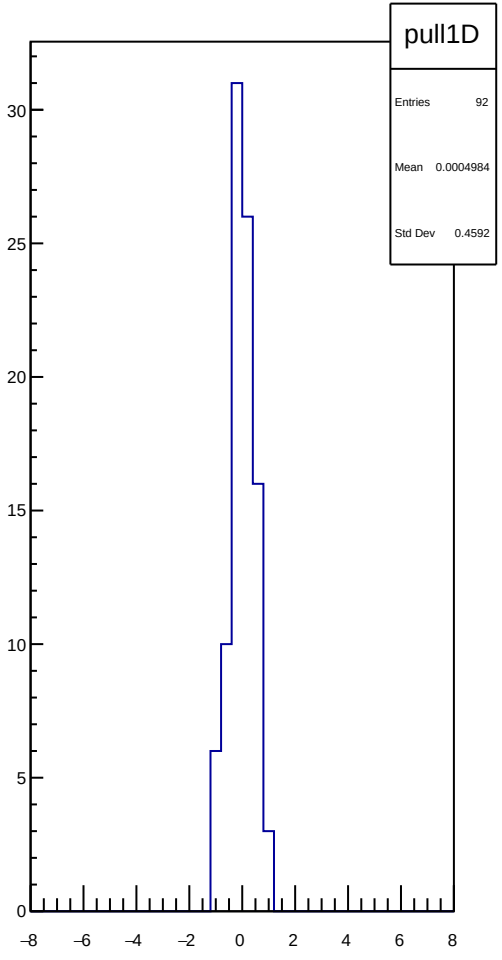

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.74 / 91
p0 13.1 ± 3.541
pull
Entries 92
Mean −543.7
Std Dev 0

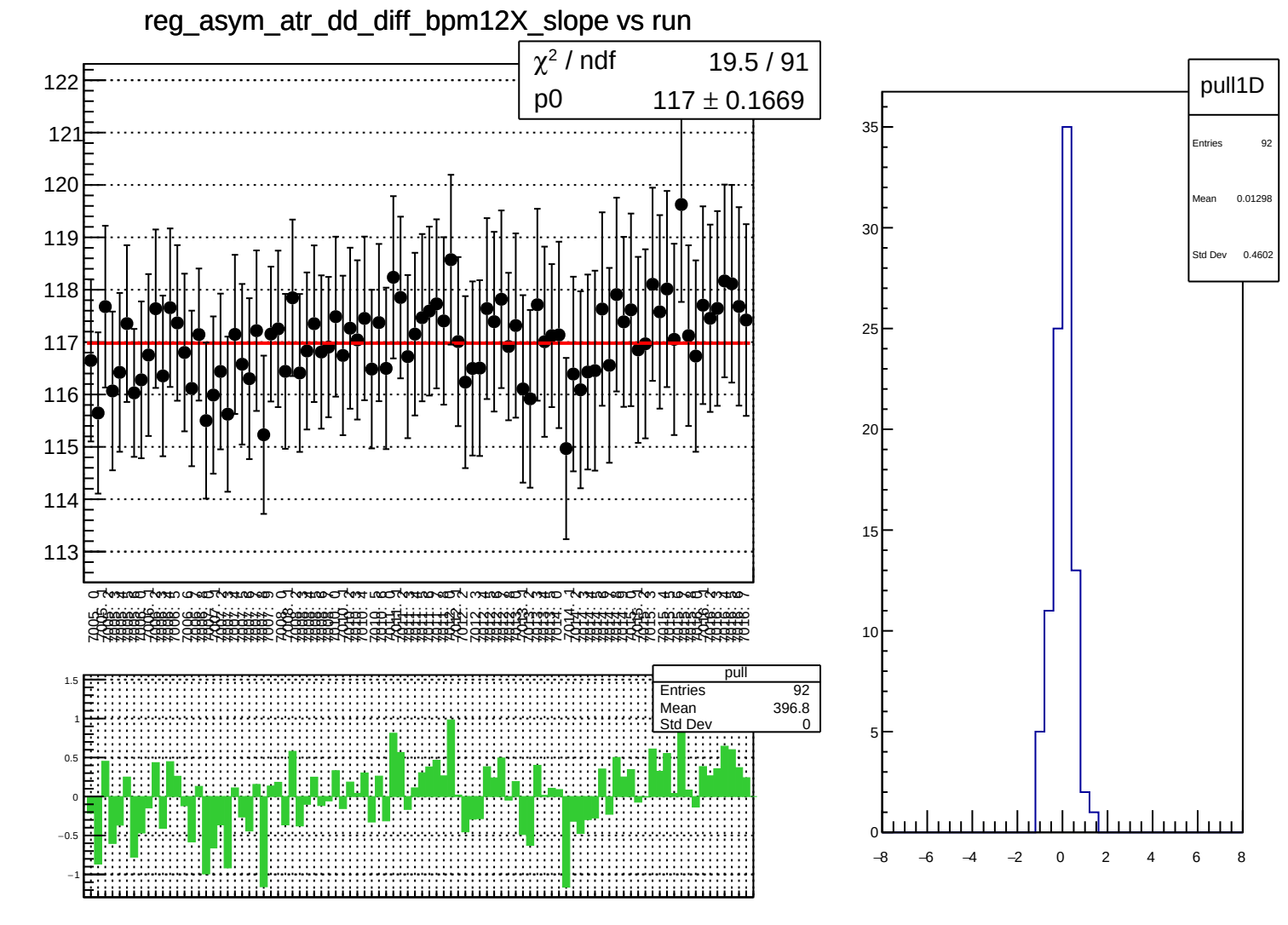

pull1D
Entries 92
Mean 0.00387
Std Dev 0.4391

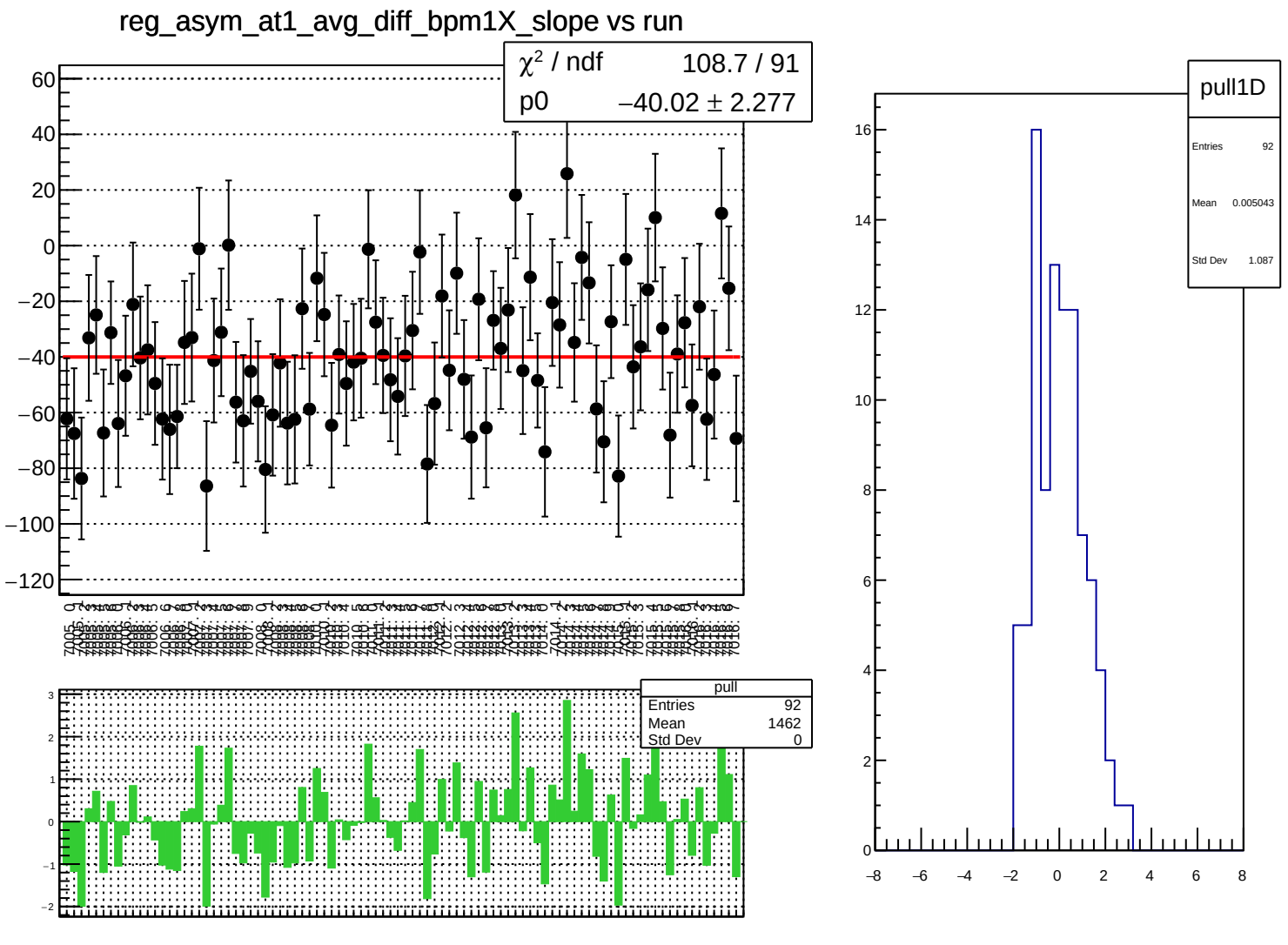

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.93 / 91
p0 −285.5 ± 4.834
−200
−250
−300
−350
−400
pull
Entries 92
Mean −37.73
Std Dev 123.8
1
0.5
0
−0.5
−1

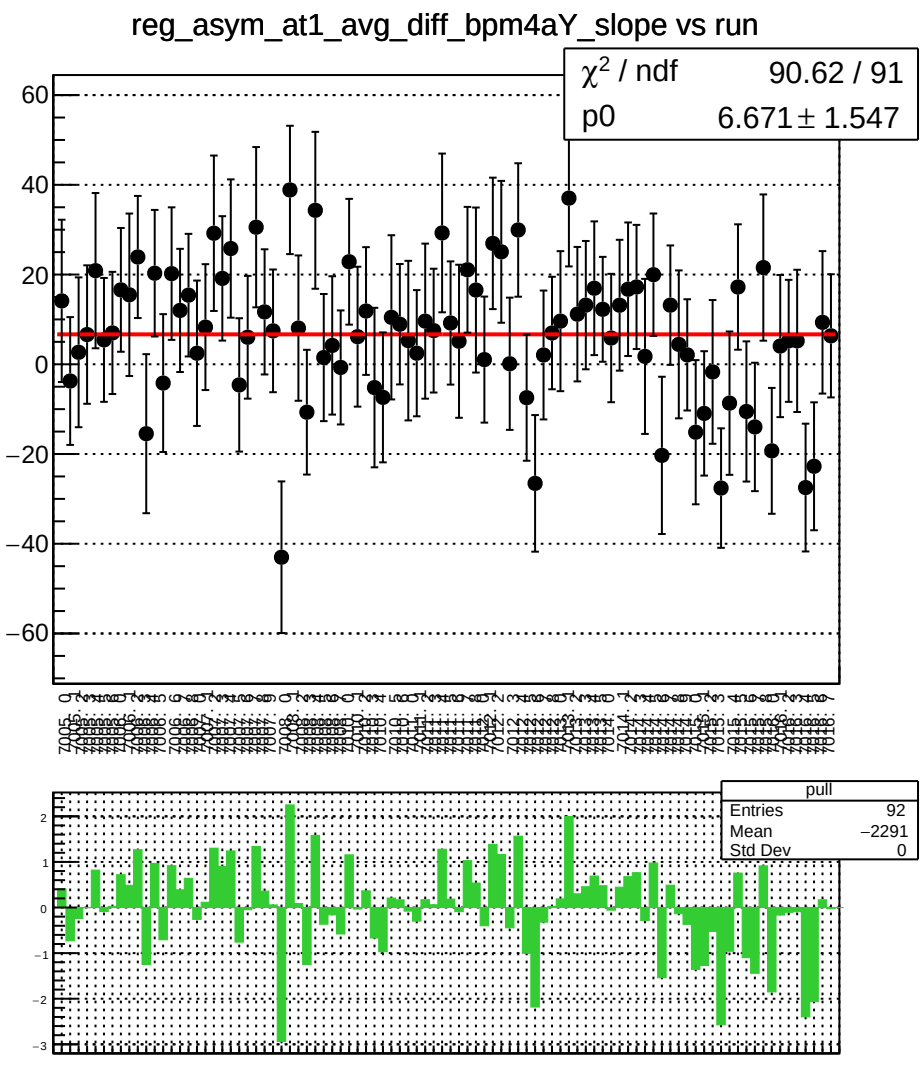

pull1D
Entries 92
Mean 0.001401
Std Dev 0.4654
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

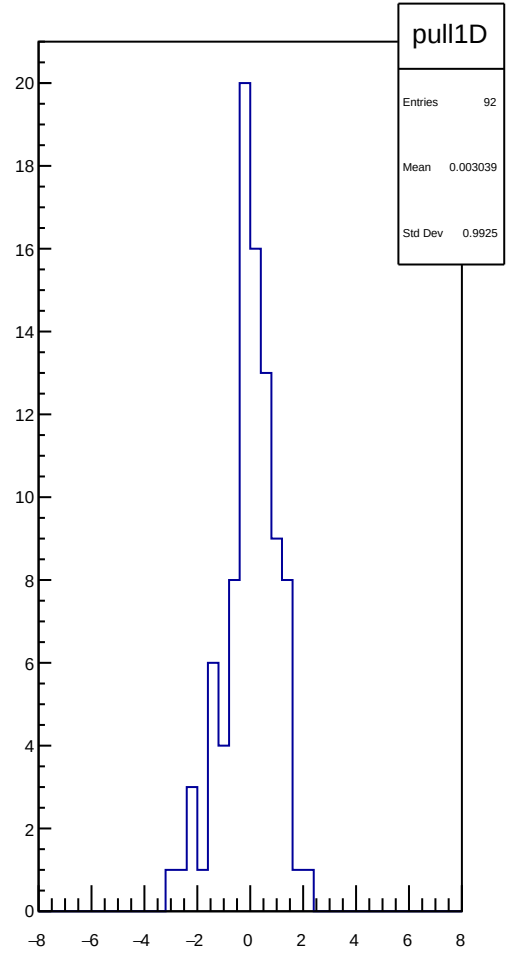

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.4 / 91
p0 −84.94 ± 3.71
pull
Entries 92
Mean 8389
Std Dev 0

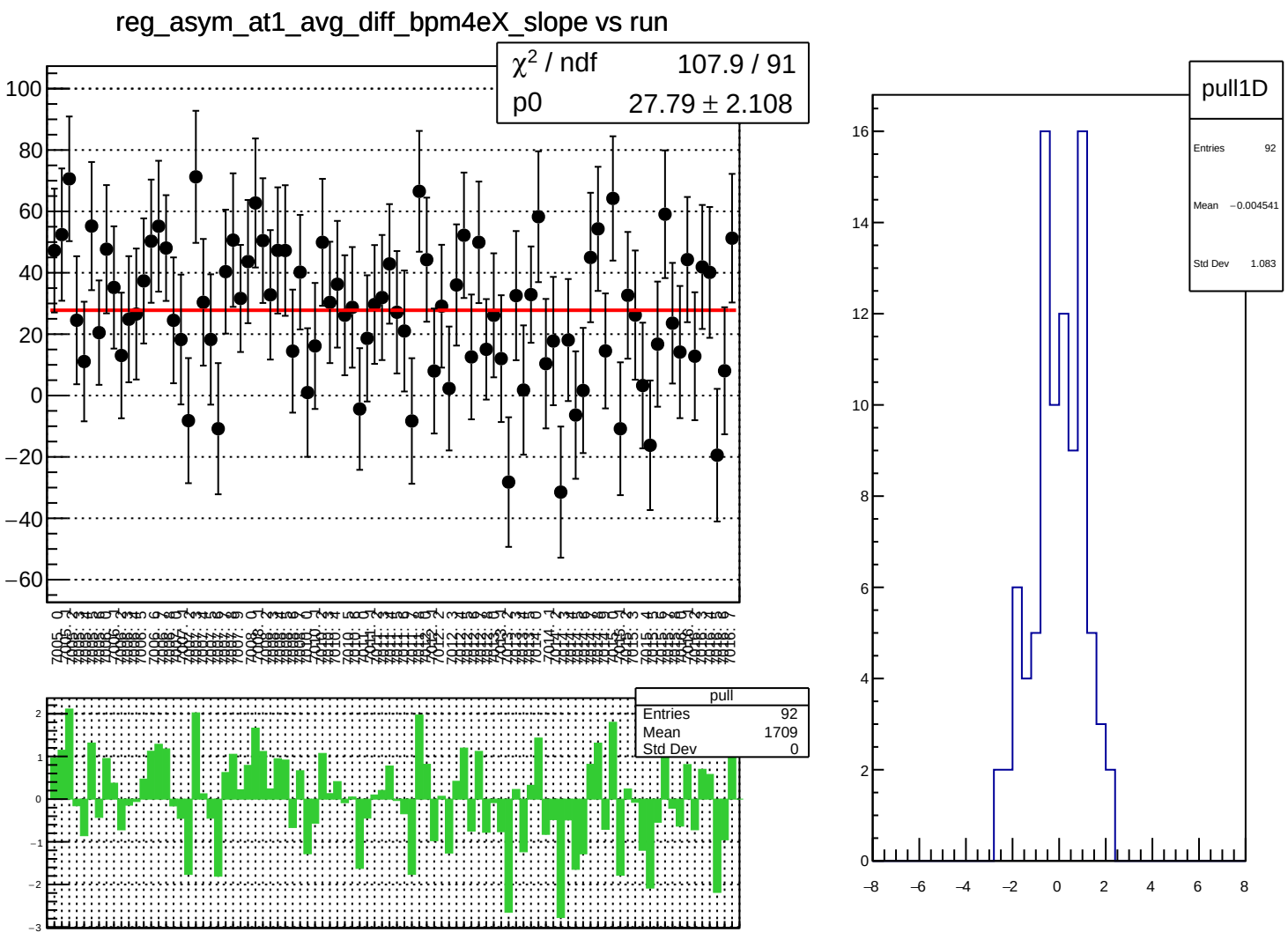

pull1D
Entries 92
Mean 0.0004984
Std Dev 0.4592

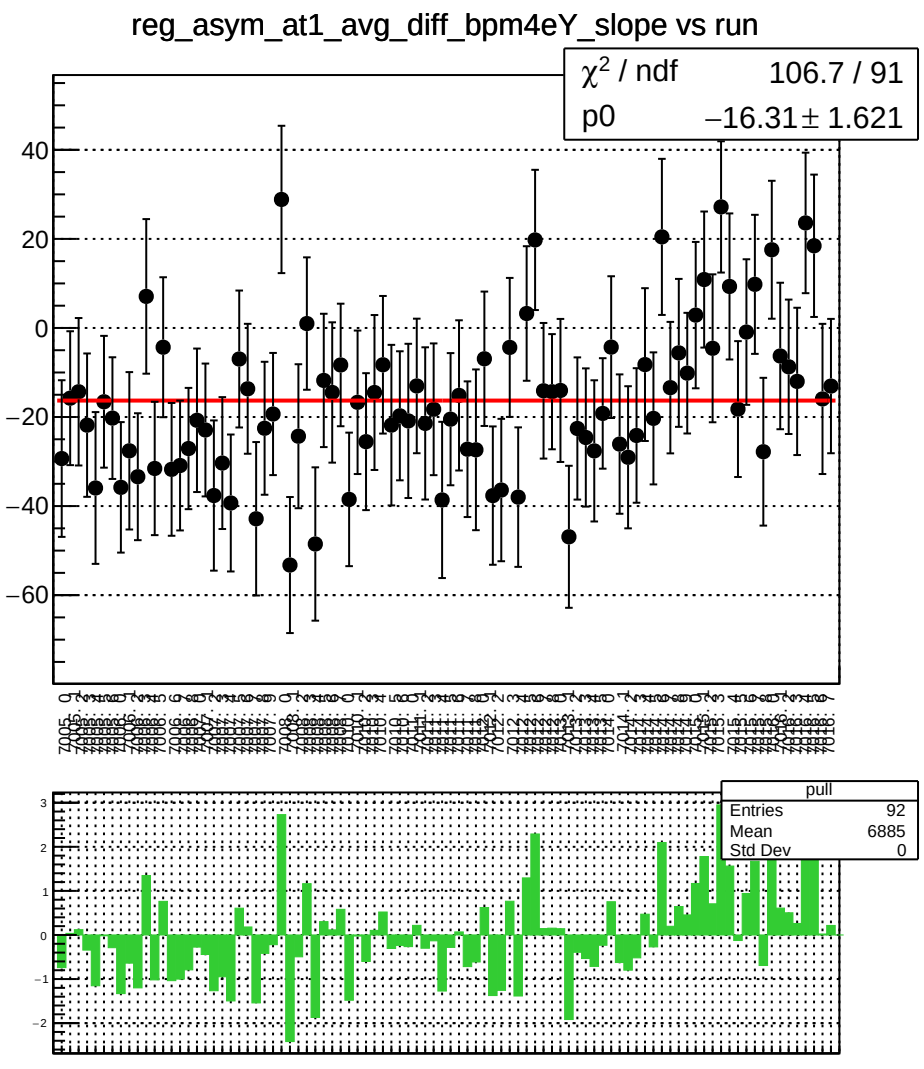

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 19.5 / 91
p0 117 ± 0.1669
pull
Entries 92
Mean 396.8
Std Dev 0
pull1D
Entries 92
Mean 0.01298
Std Dev 0.4602

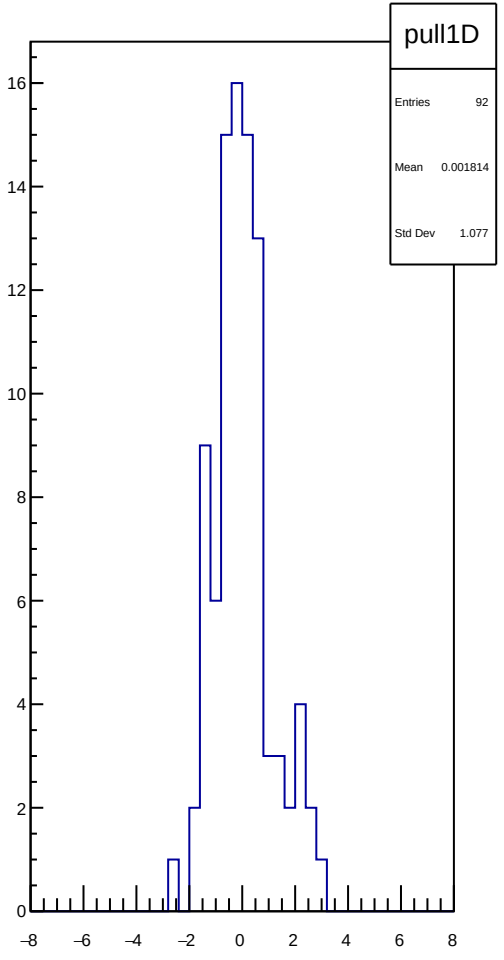

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 108.7 / 91
p0 −40.02 ± 2.277
pull
Entries 92
Mean 1462
Std Dev 0
pull1D
Entries 92
Mean 0.005043
Std Dev 1.087

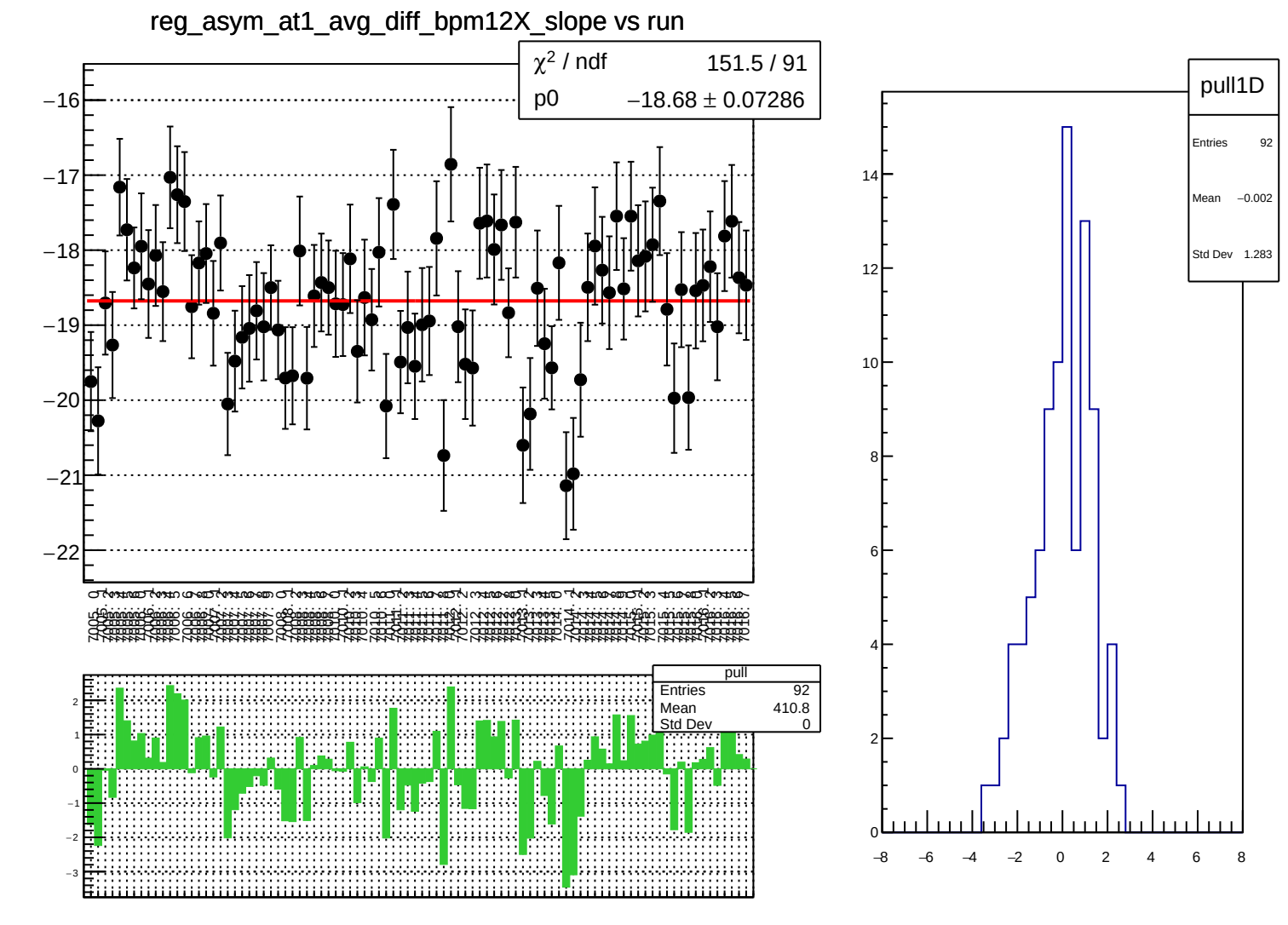

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.62 / 91
p0 6.671 ± 1.547
pull
Entries 92
Mean −2291
Std Dev 0

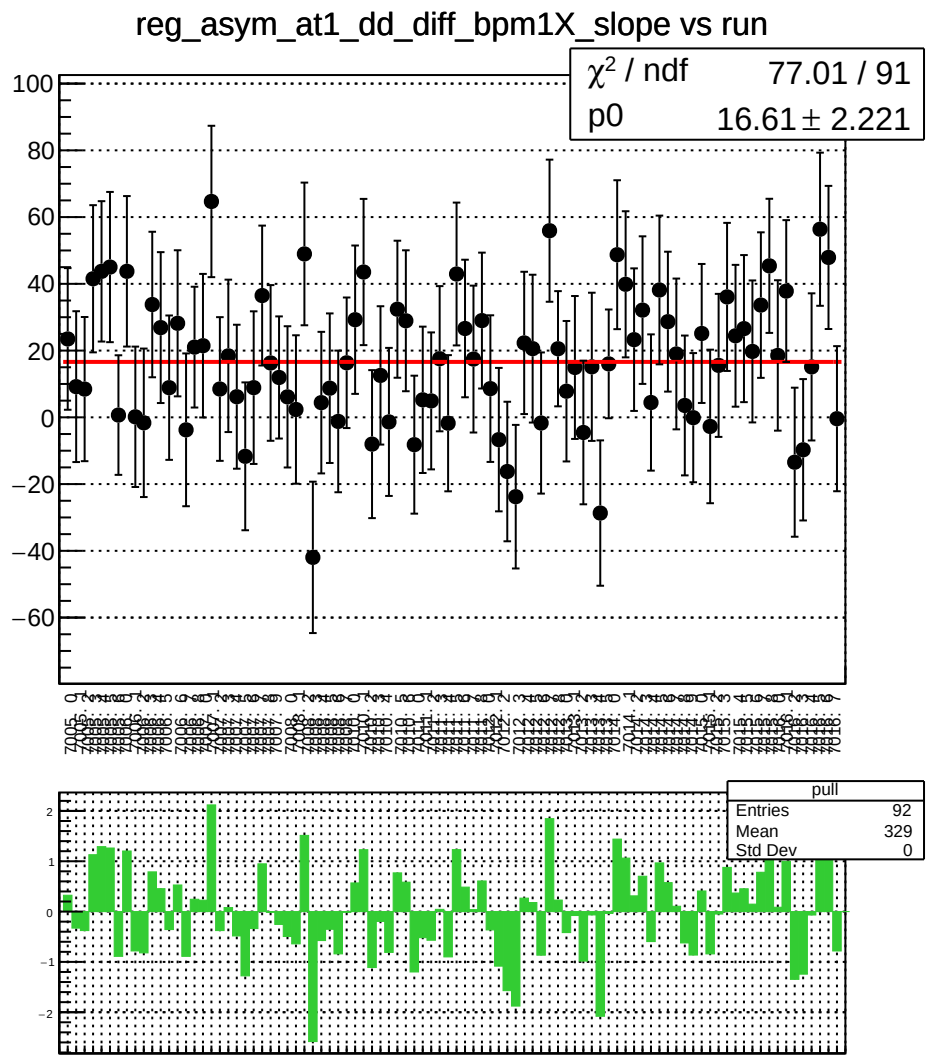

pull1D
Entries 92
Mean 0.003039
Std Dev 0.9925

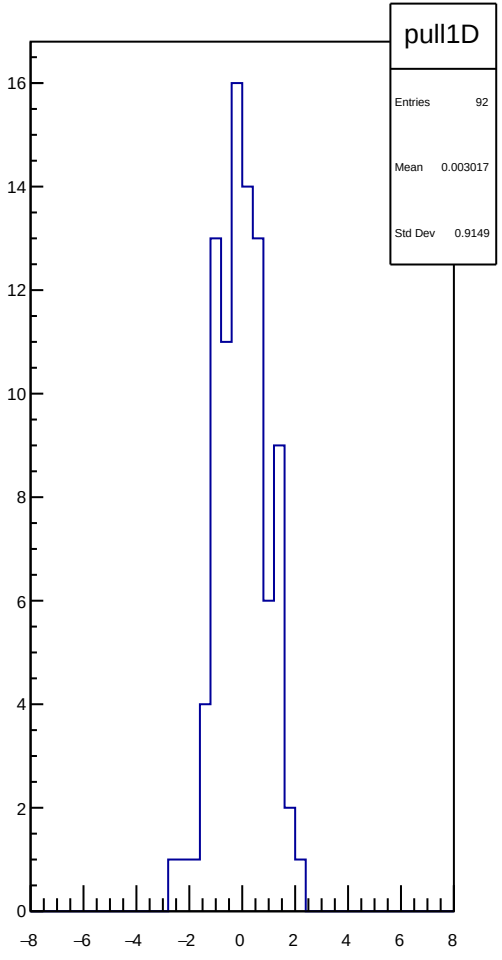

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 107.9 / 91
p0 27.79 ± 2.108
pull
Entries 92
Mean 1709
Std Dev 0
pull1D
Entries 92
Mean −0.004541
Std Dev 1.083

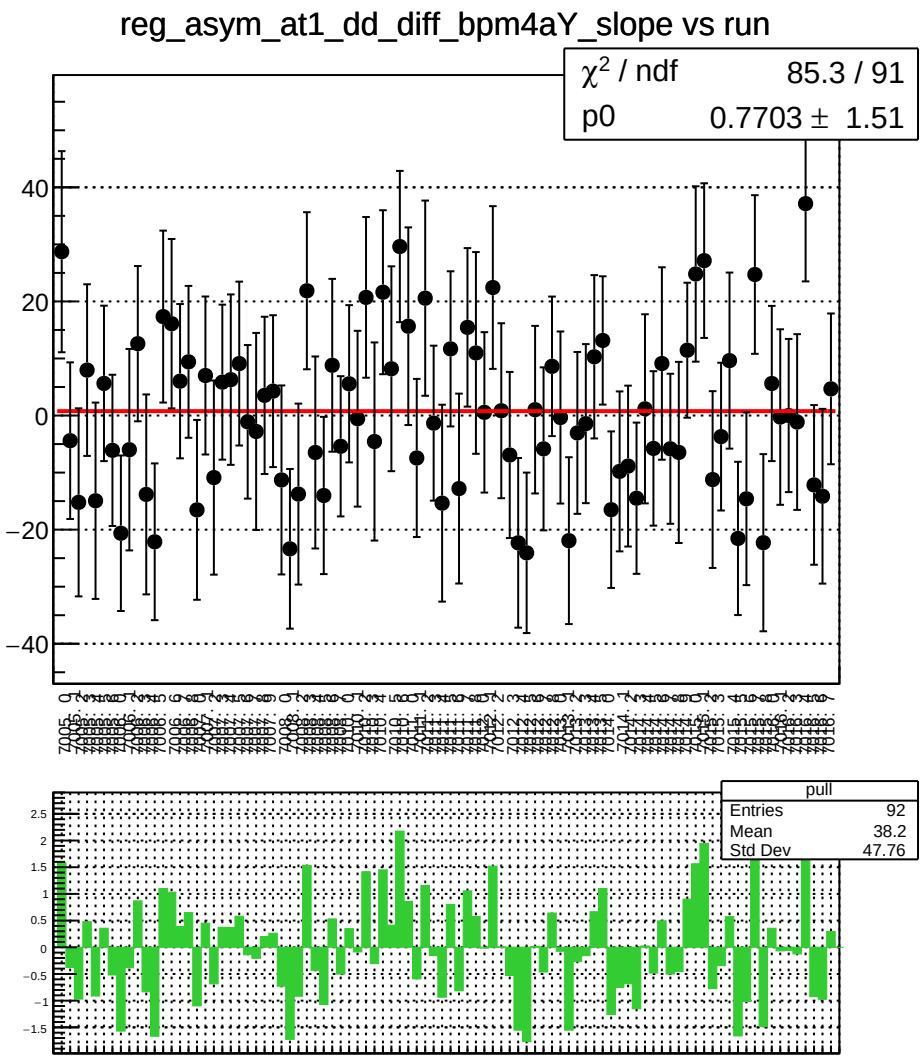

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 106.7 / 91
p0 −16.31 ± 1.621
40
20
0
−20
−40
−60
pull
Entries 92
Mean 6885
Std Dev 0
3
2
1
0
−1
−2

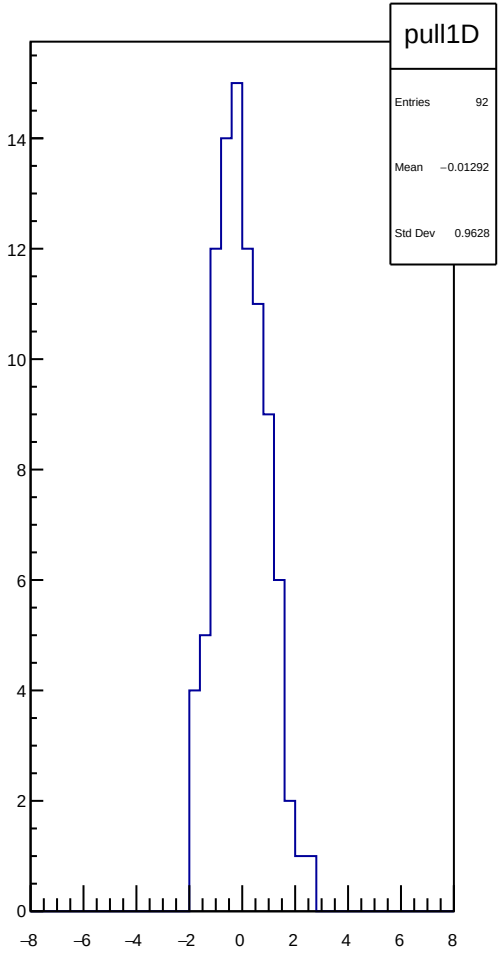

pull1D
Entries 92
Mean 0.001814
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

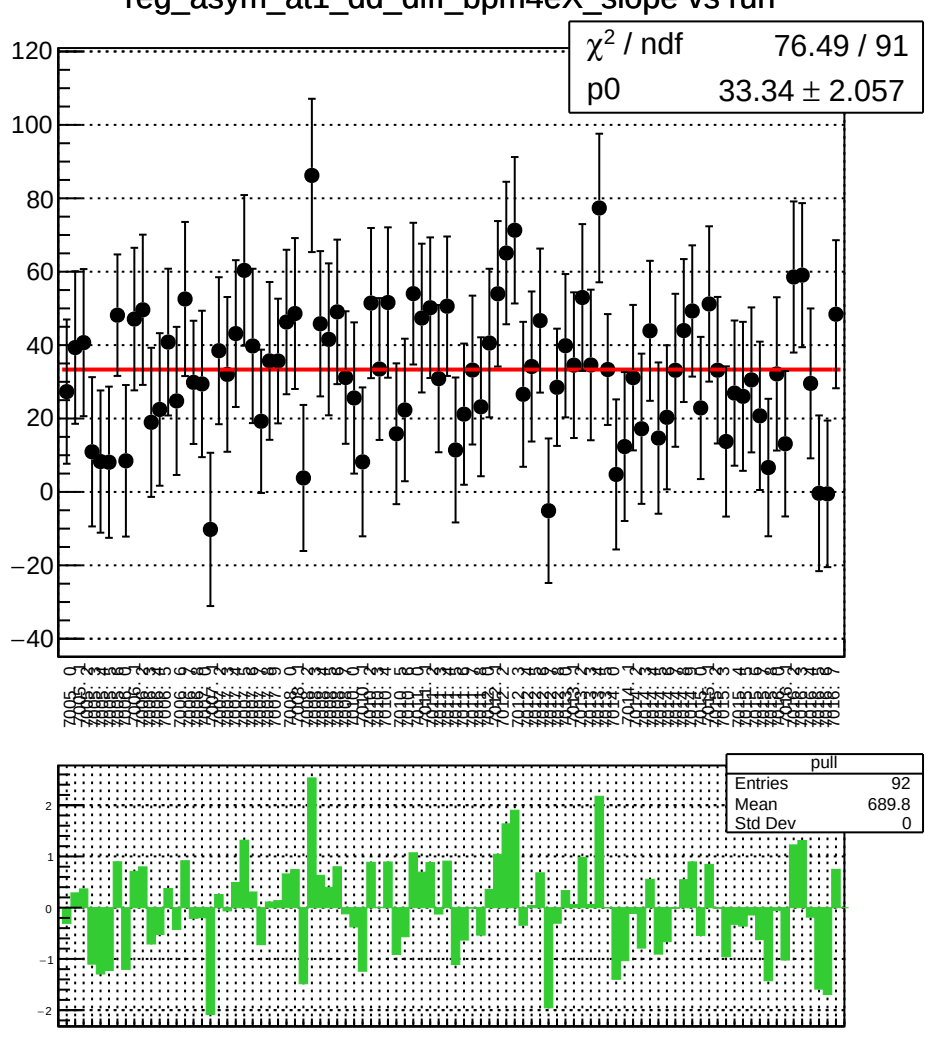

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 151.5 / 91
p0 −18.68 ± 0.07286
pull
Entries 92
Mean 410.8
Std Dev 0
pull1D
Entries 92
Mean −0.002
Std Dev 1.283

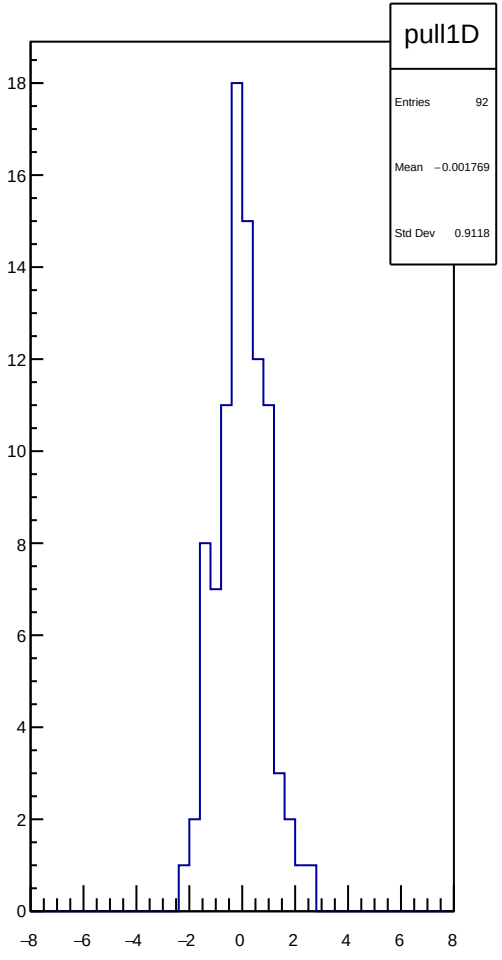

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 77.01 / 91
p0 16.61 ± 2.221
pull
Entries 92
Mean 329
Std Dev 0

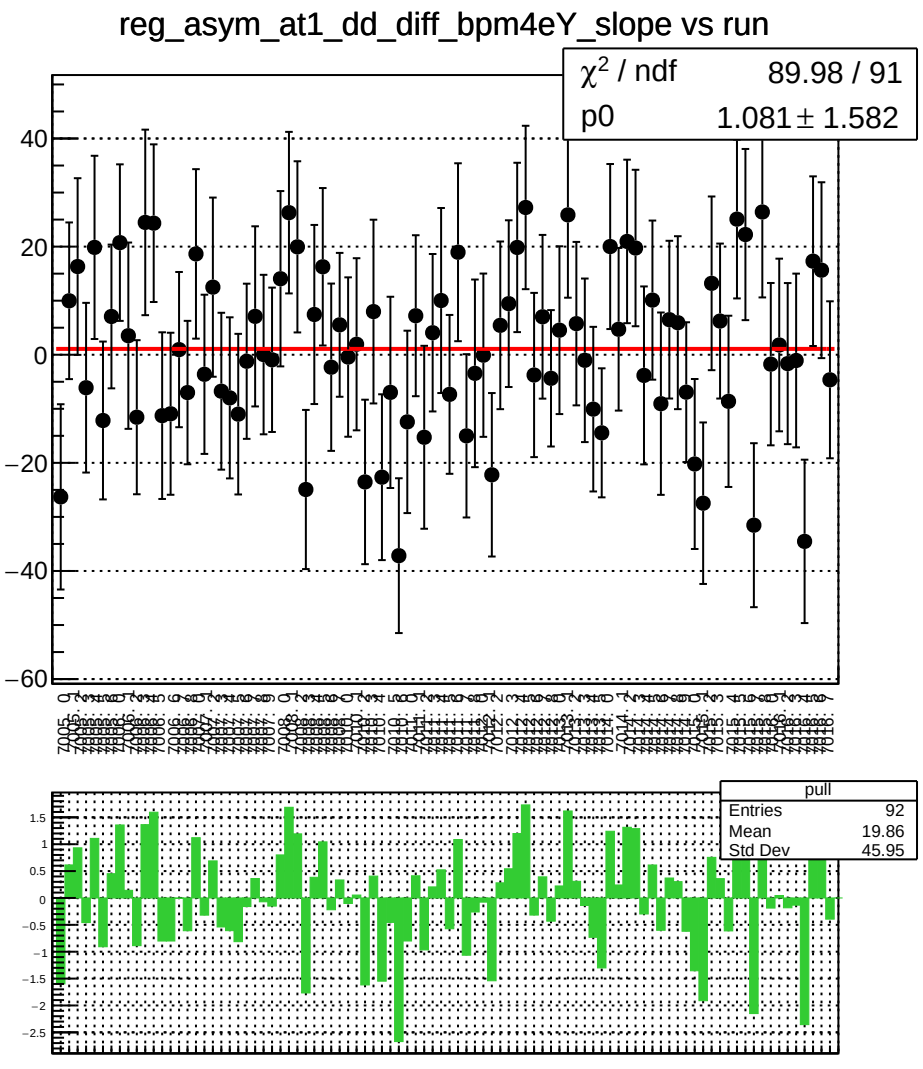

pull1D
Entries 92
Mean 0.003017
Std Dev 0.9149

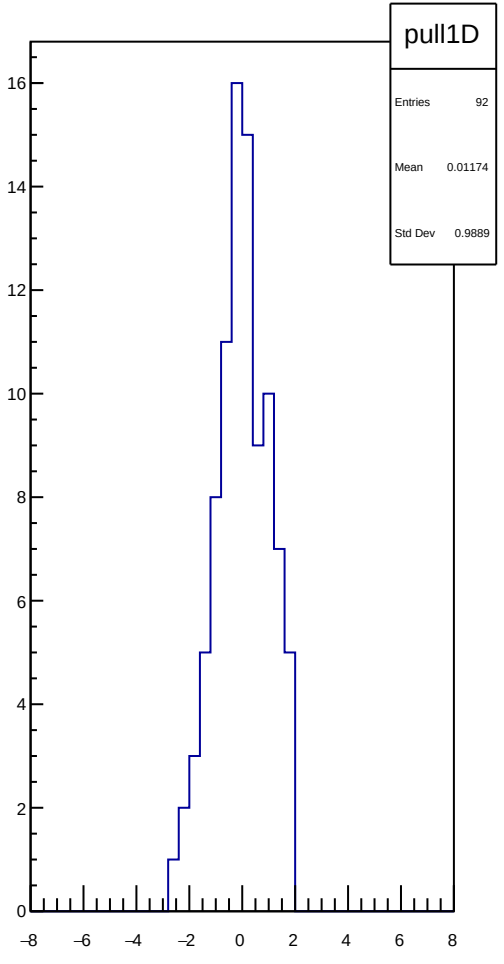

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.3 / 91
p0 0.7703 ± 1.51
pull
Entries 92
Mean 38.2
Std Dev 47.76

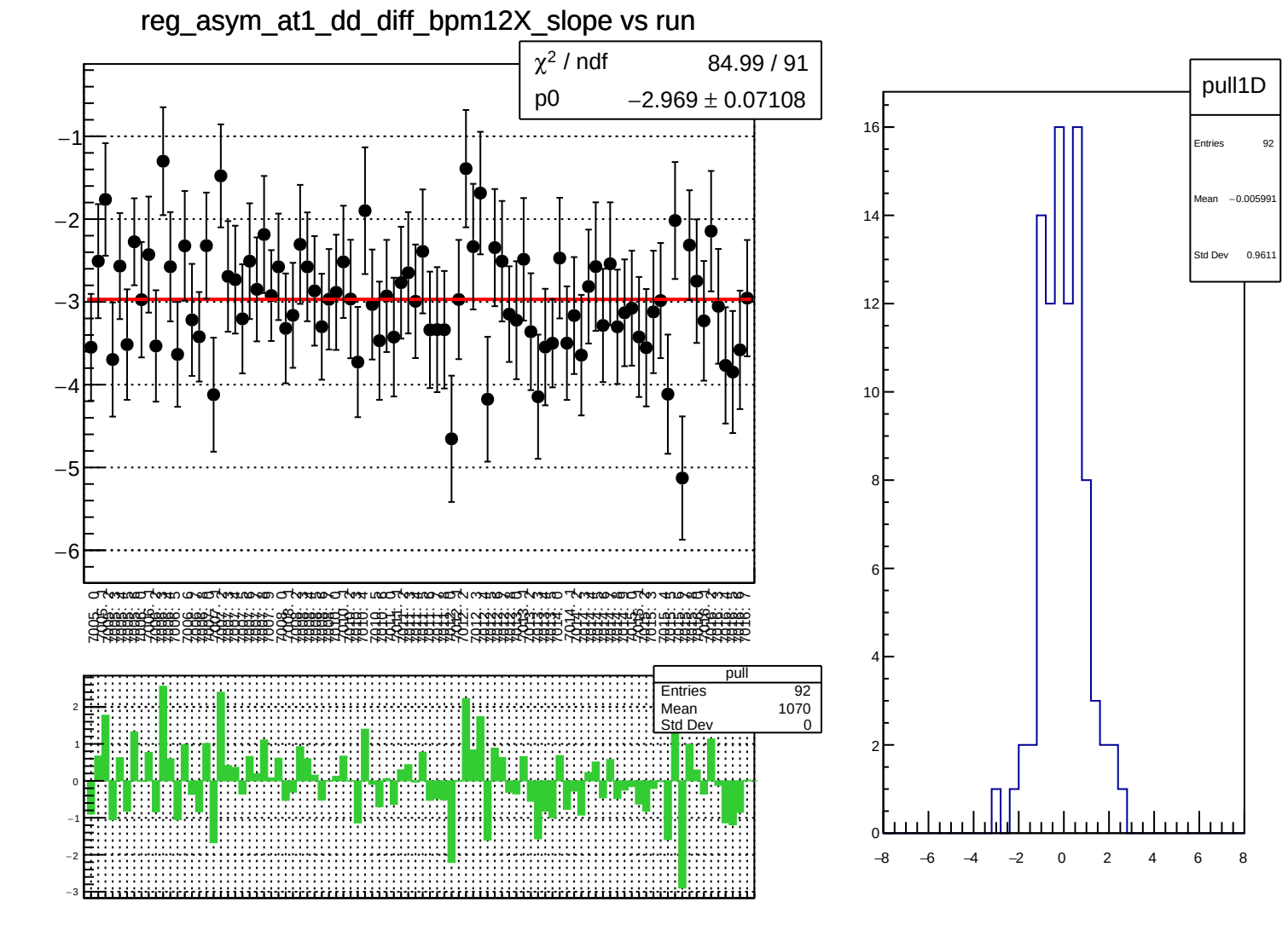

pull1D
Entries 92
Mean −0.01292
Std Dev 0.9628

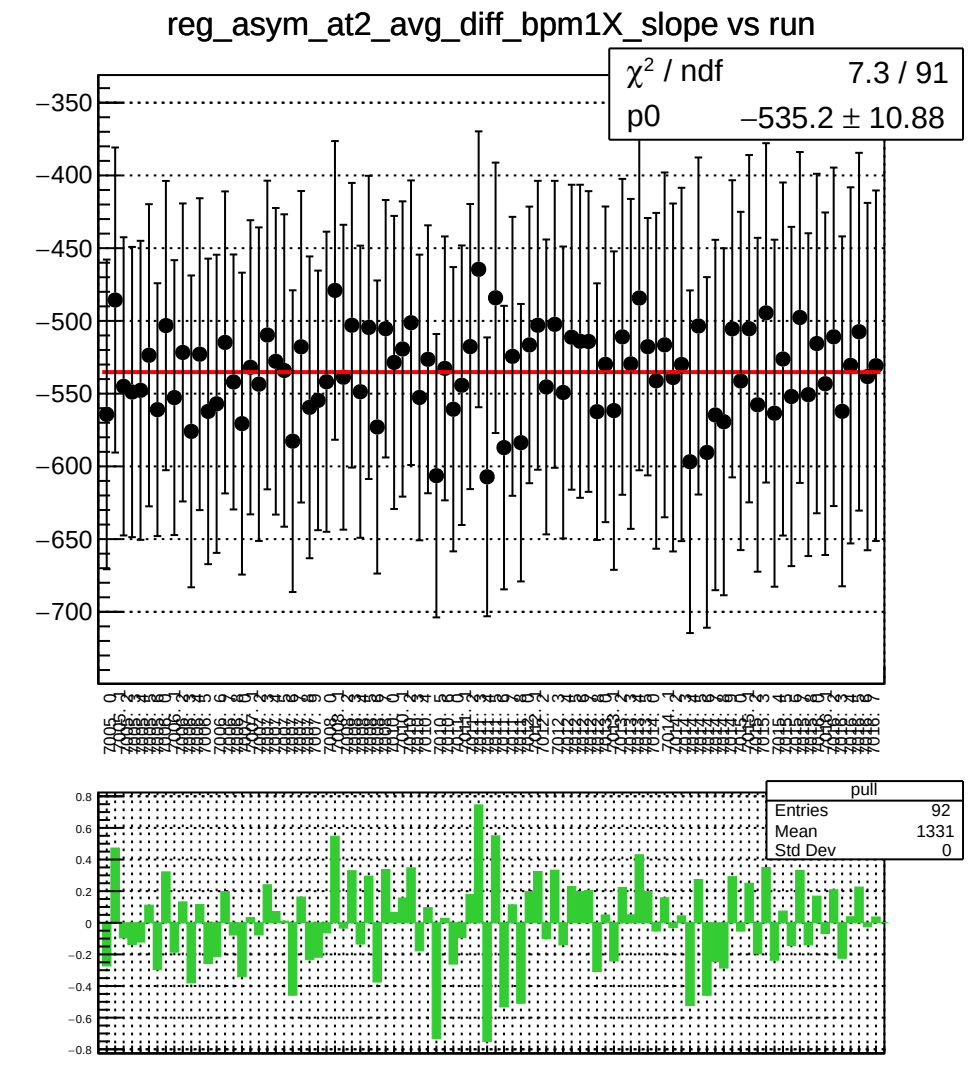

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 76.49 / 91
p0 33.34 ± 2.057
pull
Entries 92
Mean 689.8
Std Dev 0

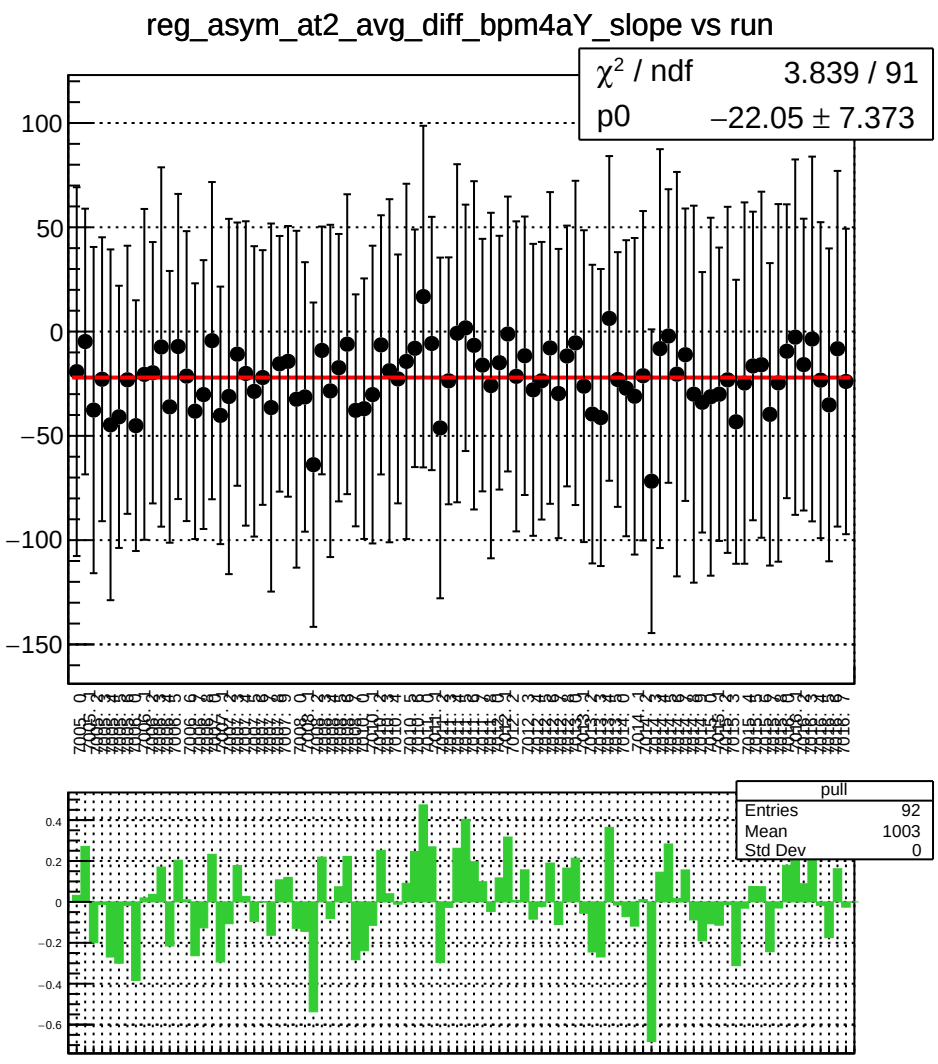

pull1D
Entries 92
Mean −0.001769
Std Dev 0.9118

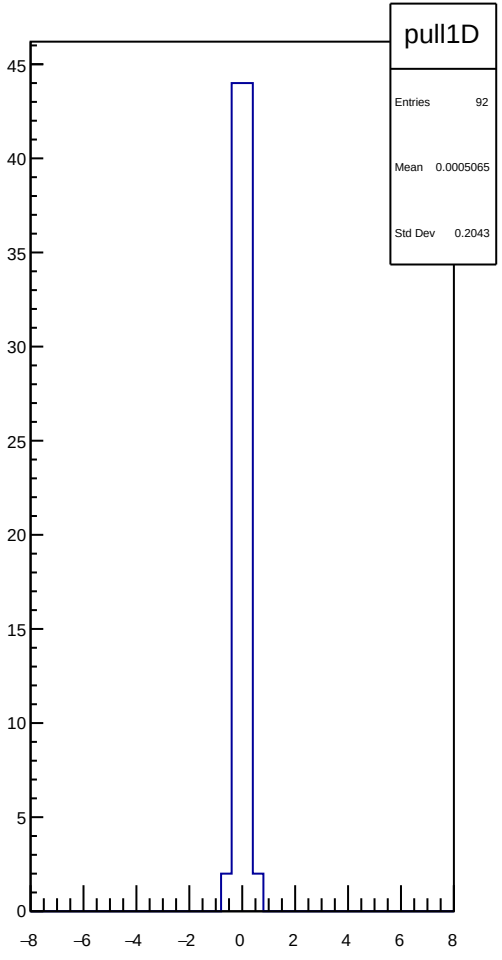

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.98 / 91
p0 1.081 ± 1.582
pull
Entries 92
Mean 19.86
Std Dev 45.95

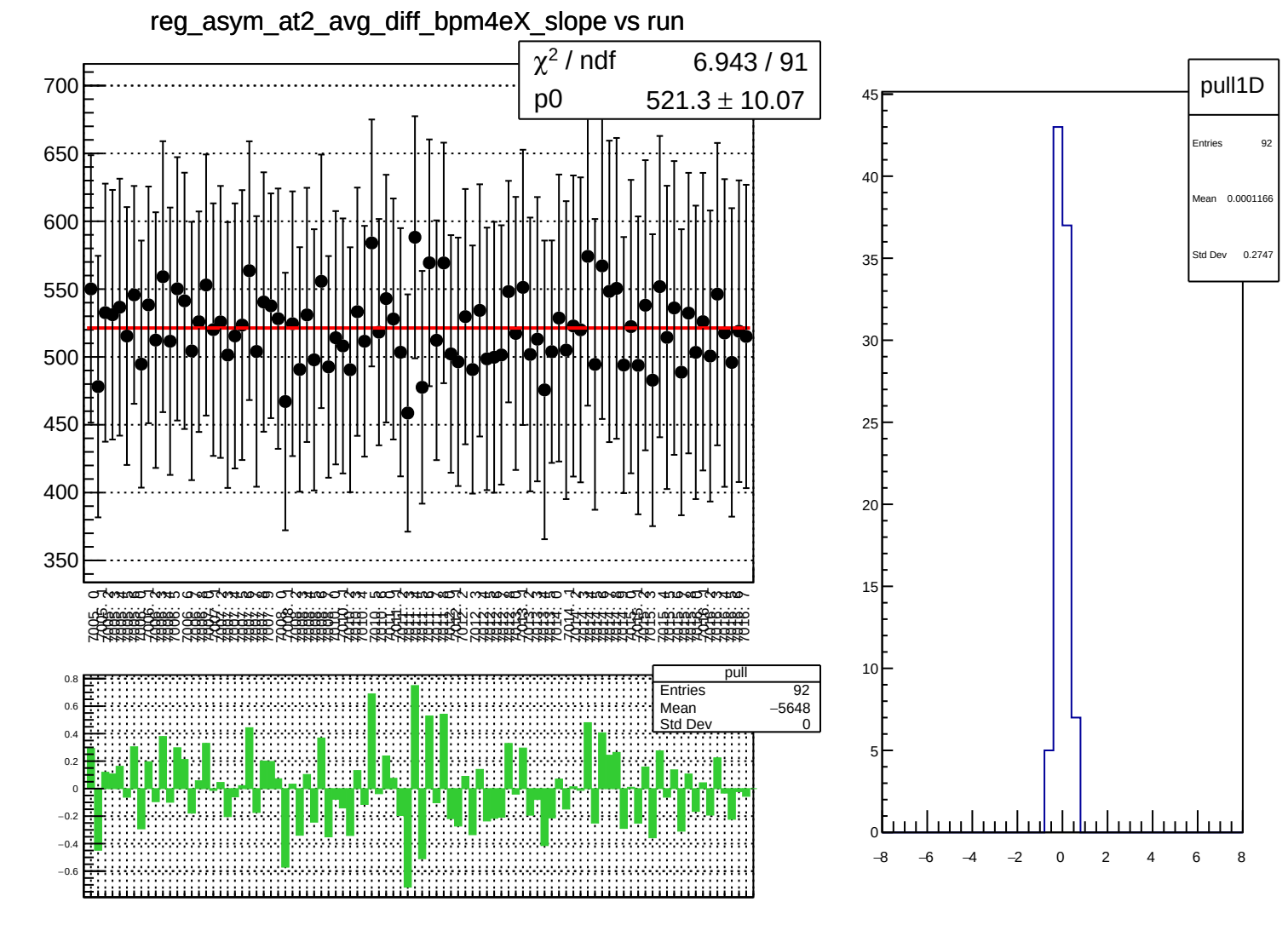

pull1D
Entries 92
Mean 0.01174
Std Dev 0.9889

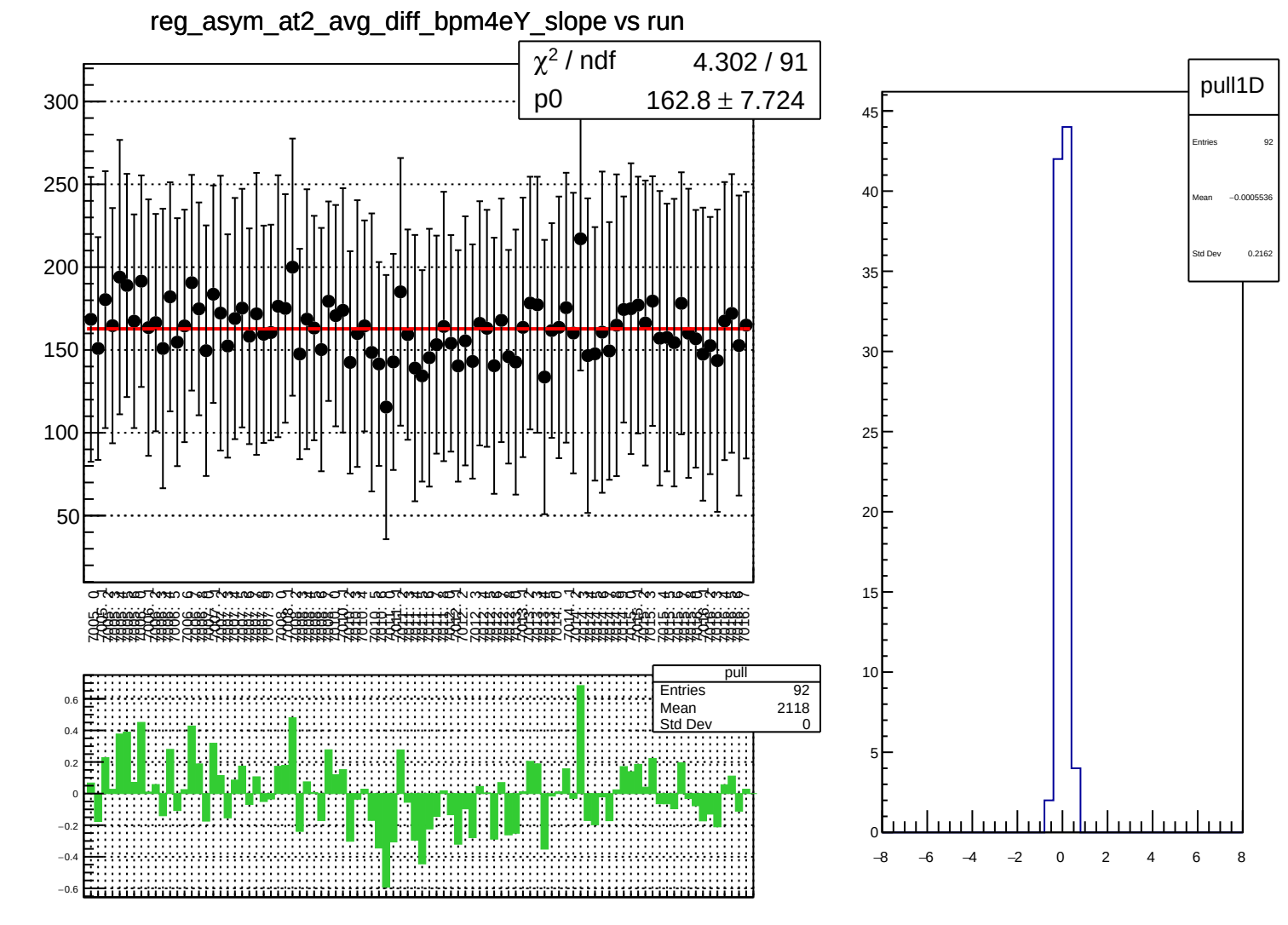

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 84.99 / 91
p0 −2.969 ± 0.07108
pull
Entries 92
Mean 1070
Std Dev 0
pull1D
Entries 92
Mean −0.005991
Std Dev 0.9611

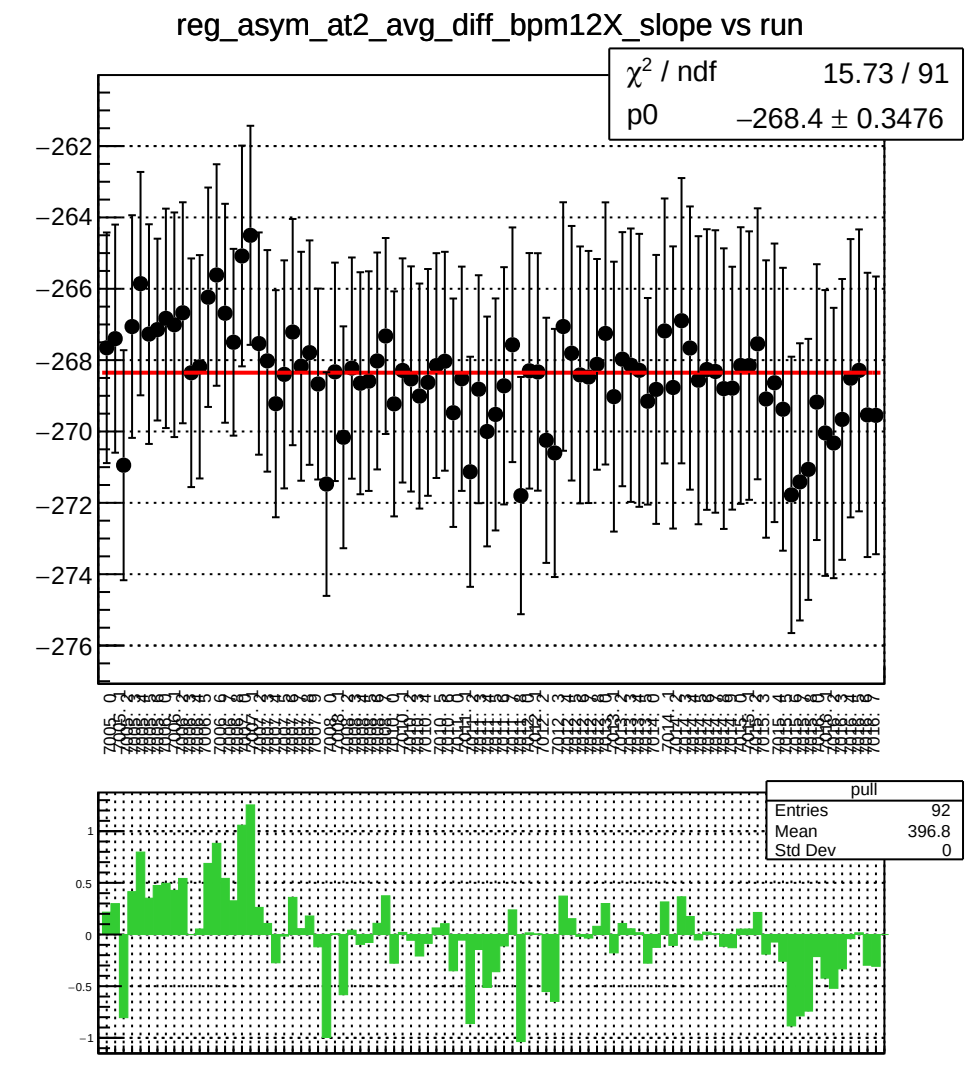

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.3 / 91
p0 −535.2 ± 10.88
pull
Entries 92
Mean 1331
Std Dev 0
pull1D
Entries 92
Mean 0.0004004
Std Dev 0.2817

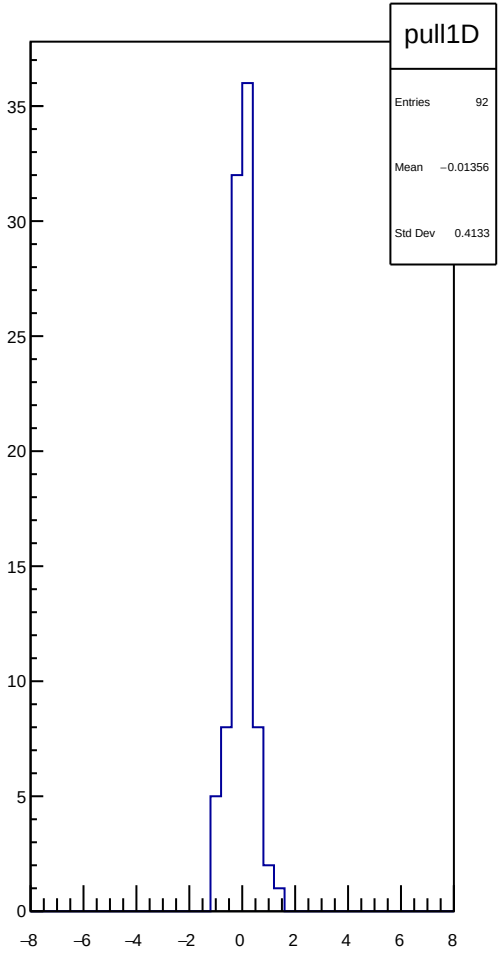

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.839 / 91
p0 −22.05 ± 7.373
100
50
0
−50
−100
−150
pull
Entries 92
Mean 1003
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

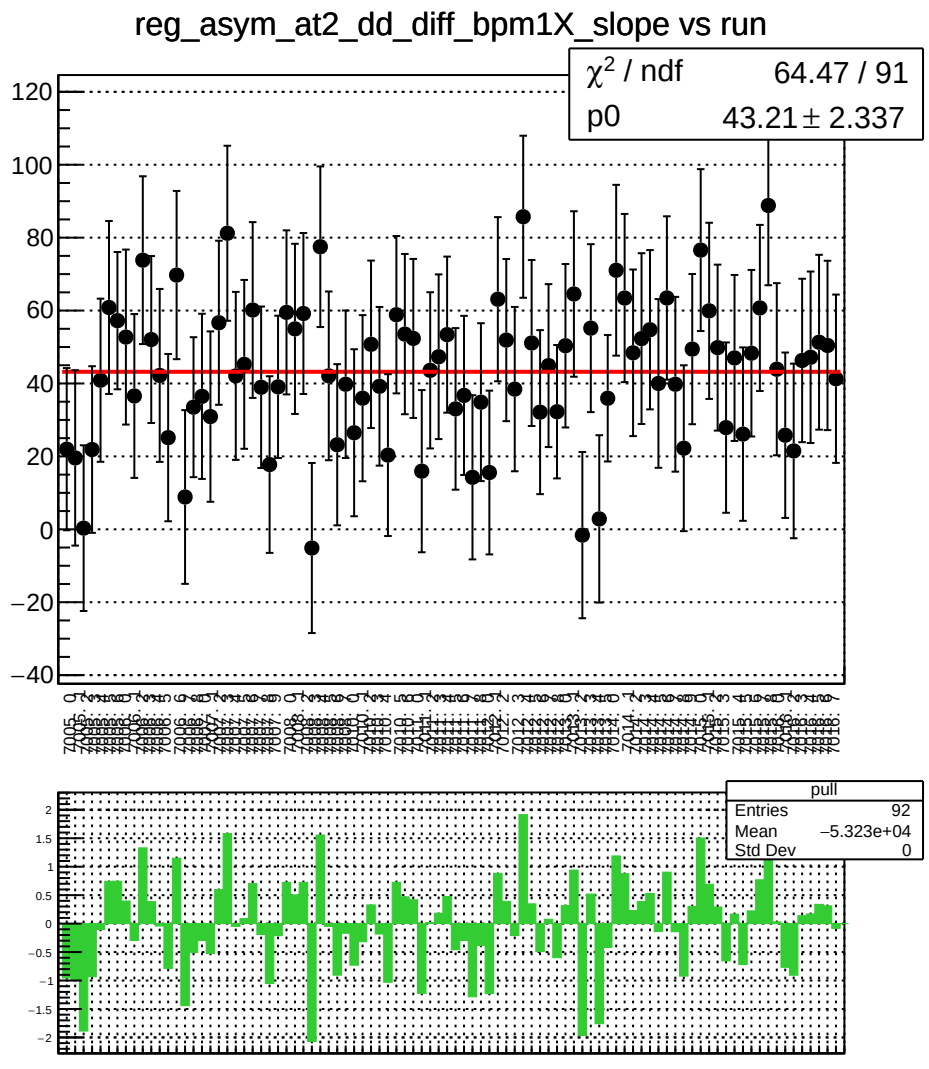

pull1D
Entries 92
Mean 0.0005065
Std Dev 0.2043
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

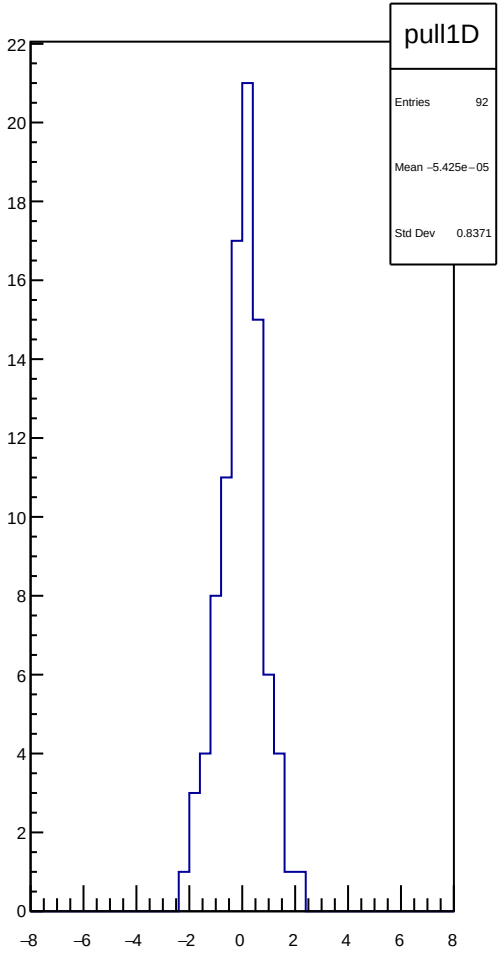

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.943 / 91
p0 521.3 ± 10.07
700
650
600
550
500
450
400
350
pull
Entries 92
Mean −5648
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.0001166
Std Dev 0.2747
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

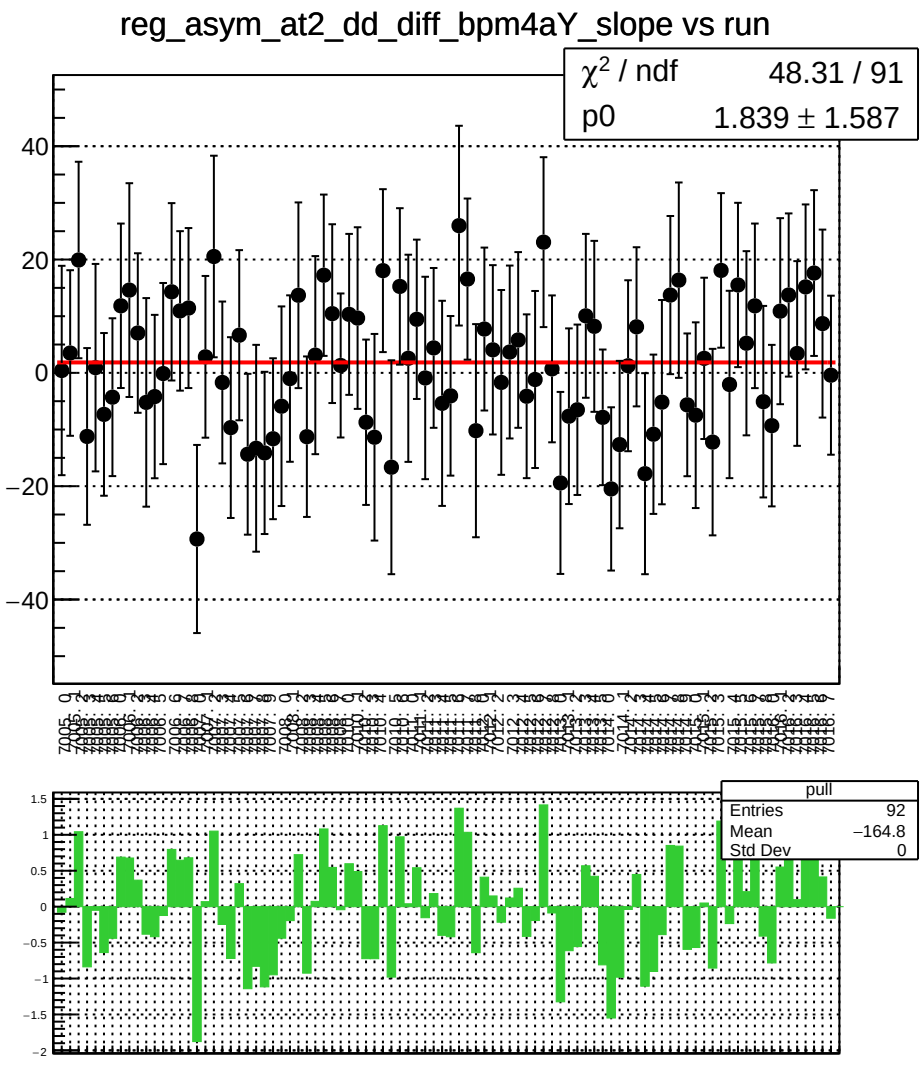

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.302 / 91
p0 162.8 ± 7.724
300
250
200
150
100
50
pull
Entries 92
Mean 2118
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean −0.0005536
Std Dev 0.2162
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

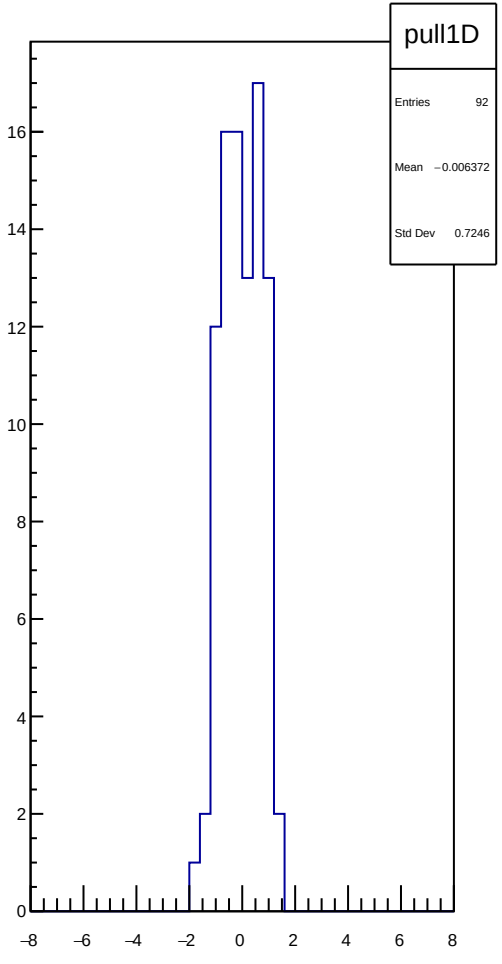

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 15.73 / 91
p0 −268.4 ± 0.3476
pull
Entries 92
Mean 396.8
Std Dev 0

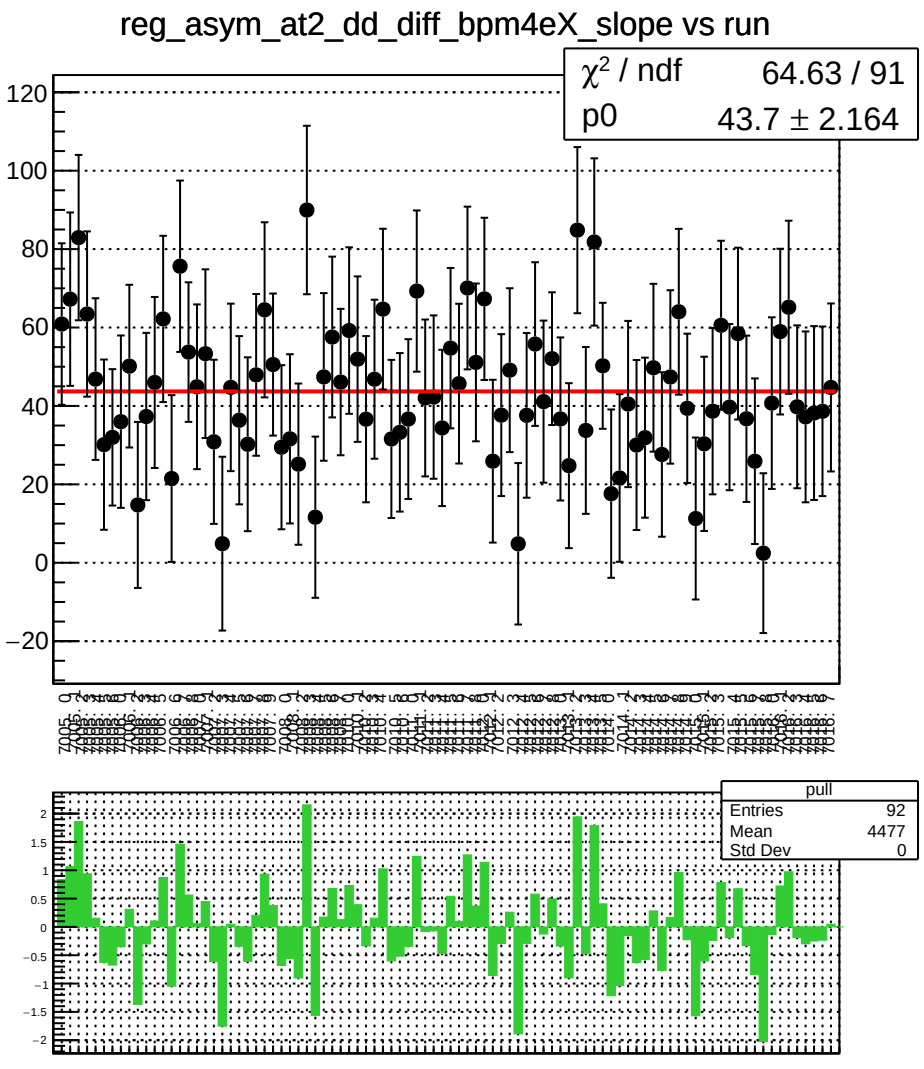

pull1D
Entries 92
Mean −0.01356
Std Dev 0.4133

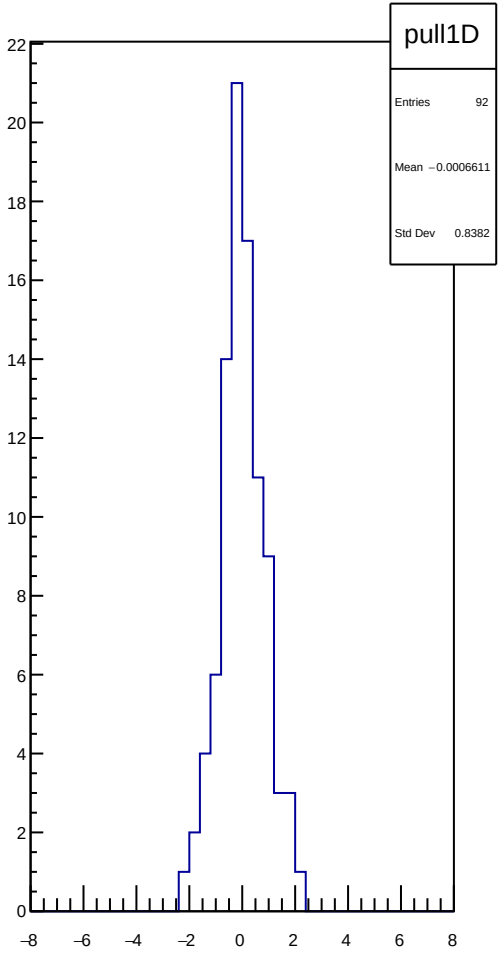

reg_asym_at2_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 64.47 / 91
p0 43.21 ± 2.337
pull
Entries 92
Mean −5.323e+04
Std Dev 0

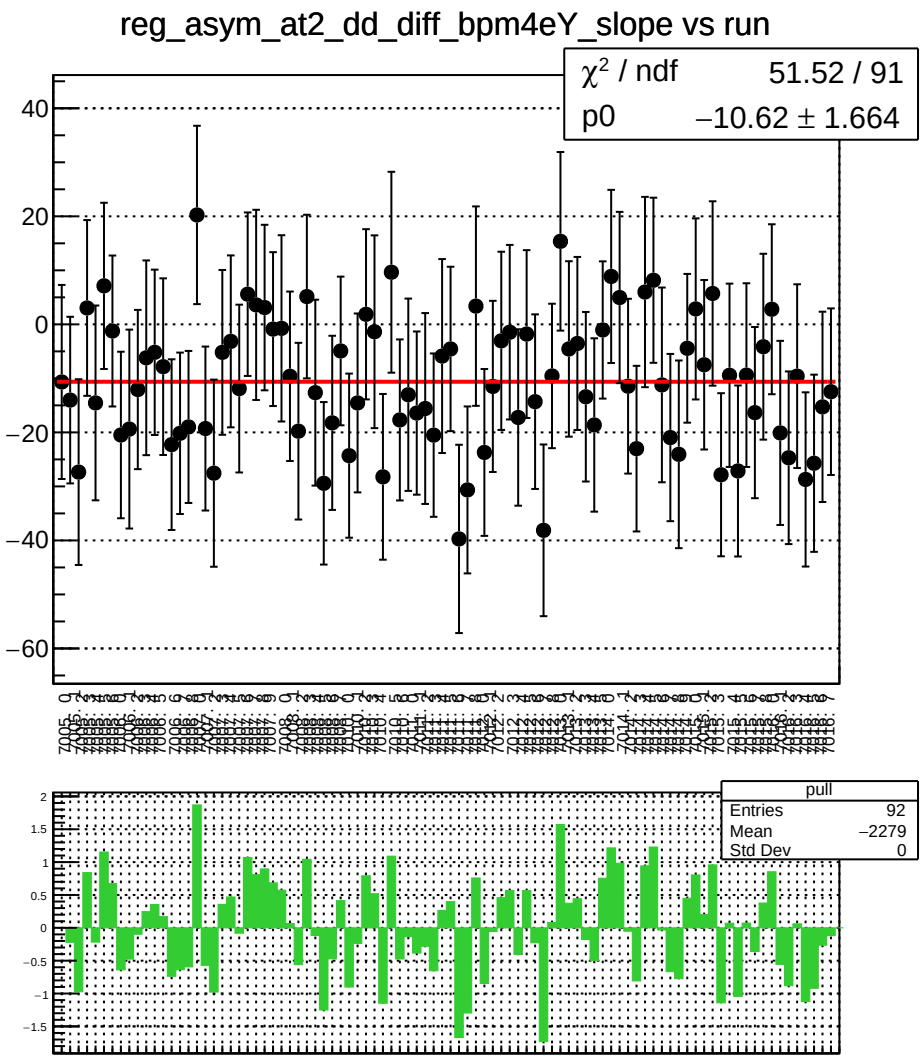

pull1D
Entries 92
Mean −5.425e−05
Std Dev 0.8371

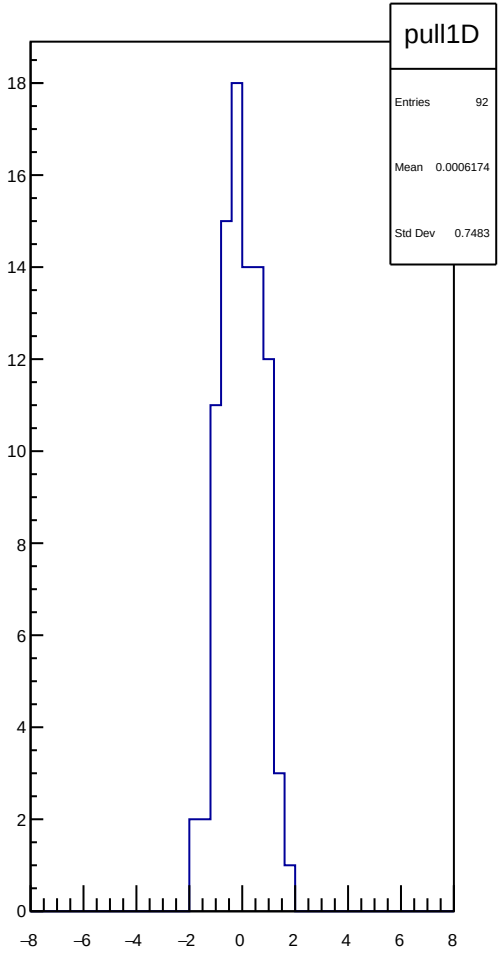

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 48.31 / 91
p0 1.839 ± 1.587
pull
Entries 92
Mean −164.8
Std Dev 0

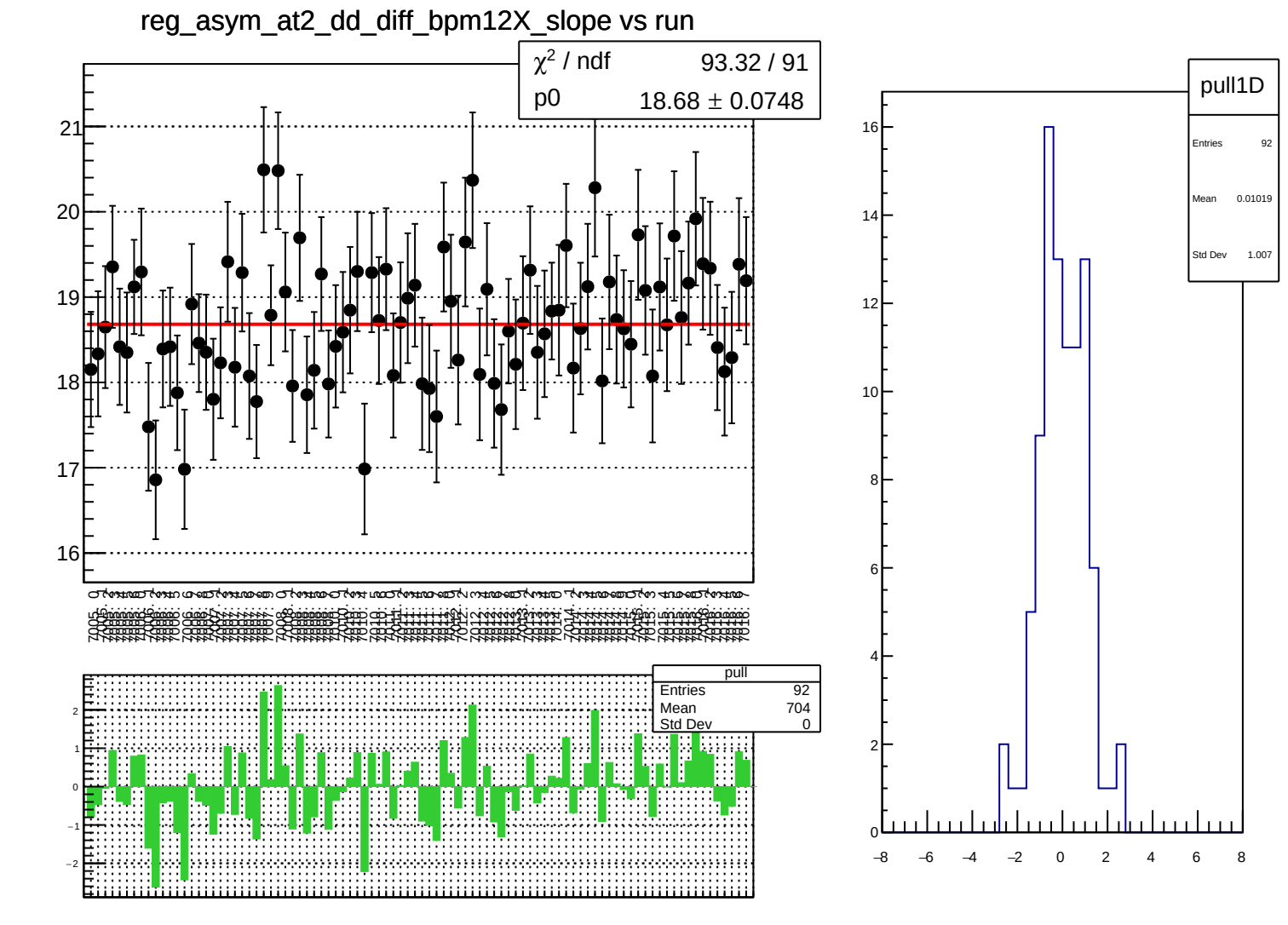

pull1D
Entries 92
Mean −0.006372
Std Dev 0.7246

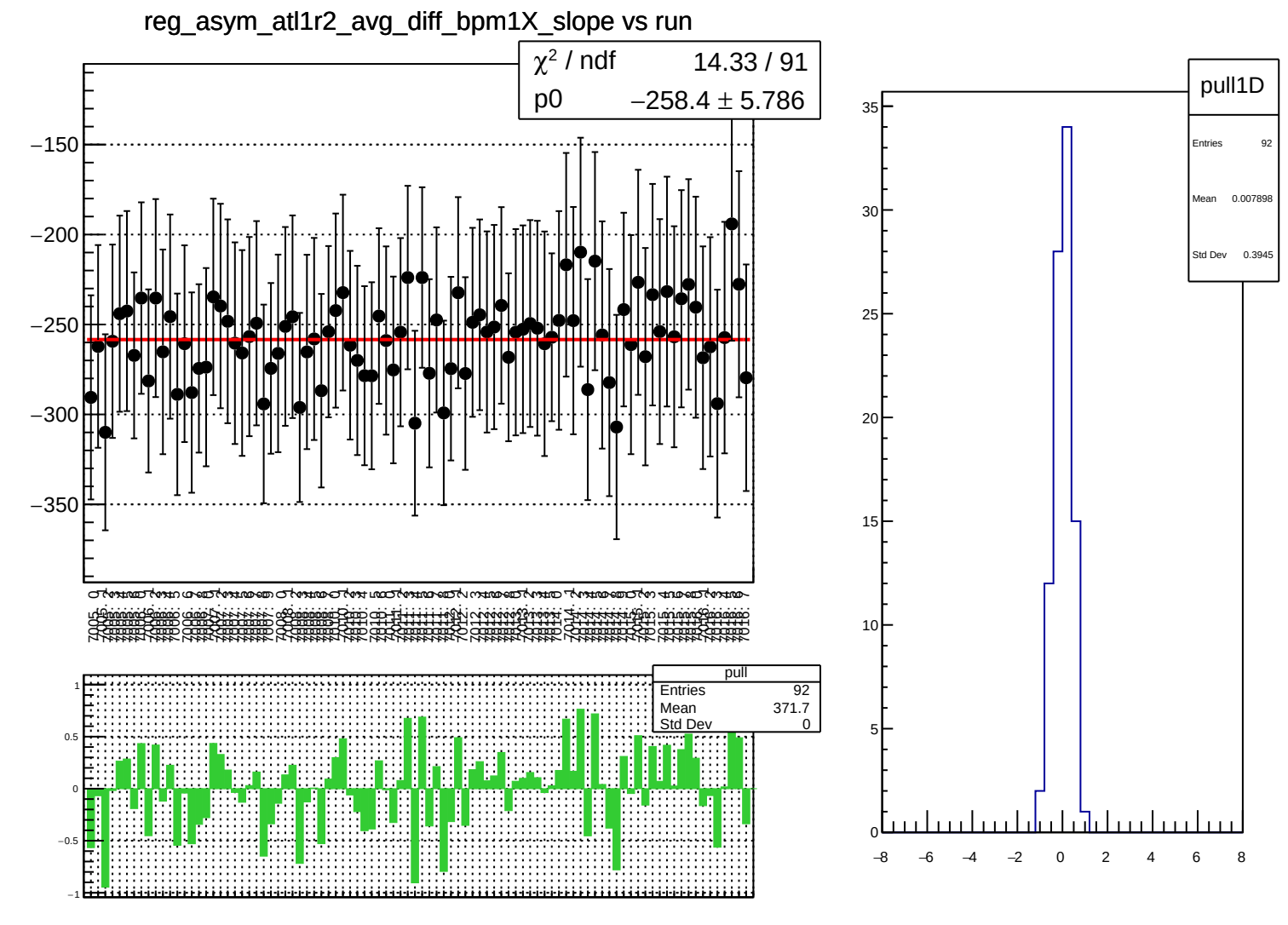

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.63 / 91
p0 43.7 ± 2.164
pull
Entries 92
Mean 4477
Std Dev 0

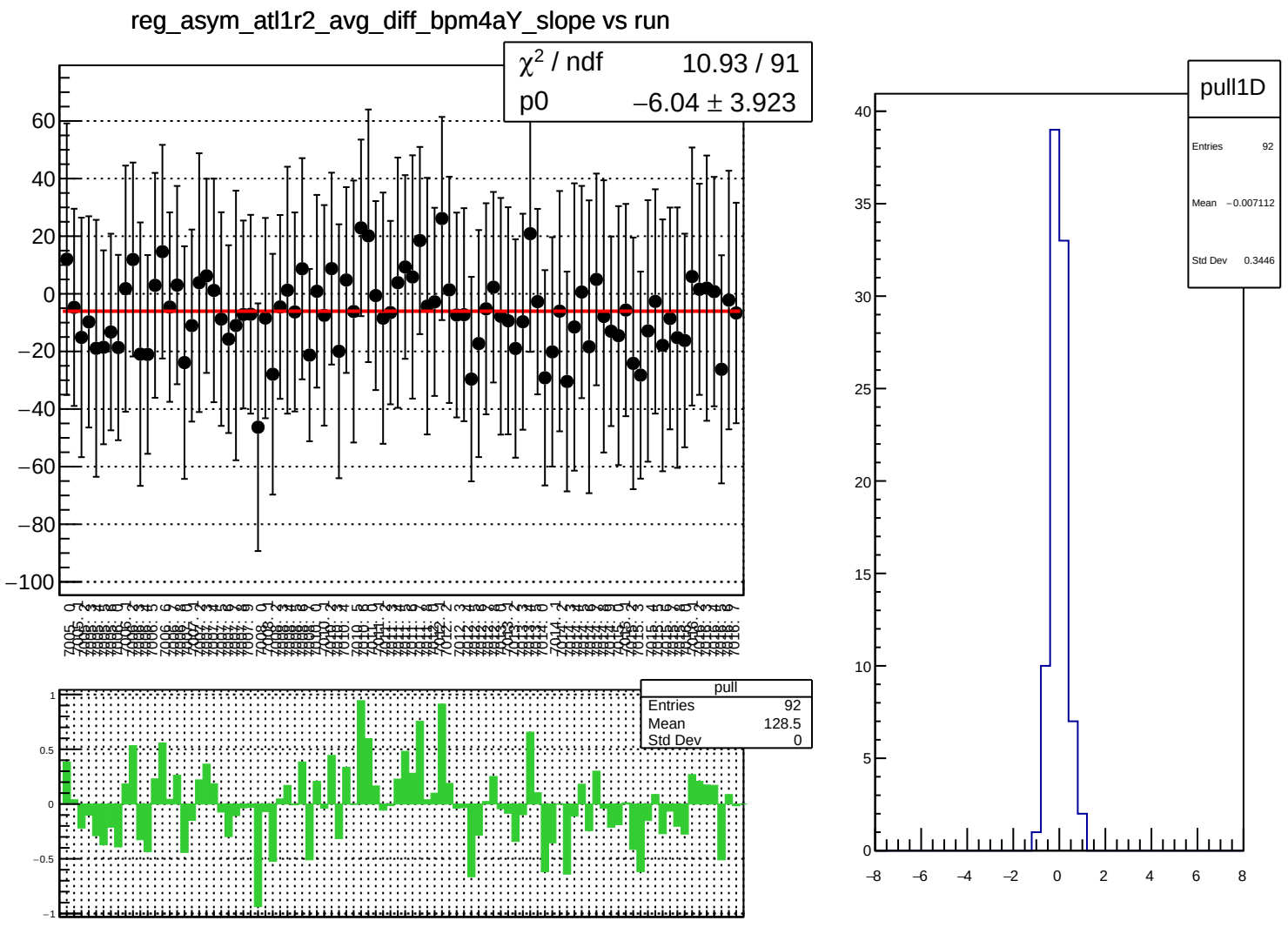

pull1D
Entries 92
Mean −0.0006611
Std Dev 0.8382

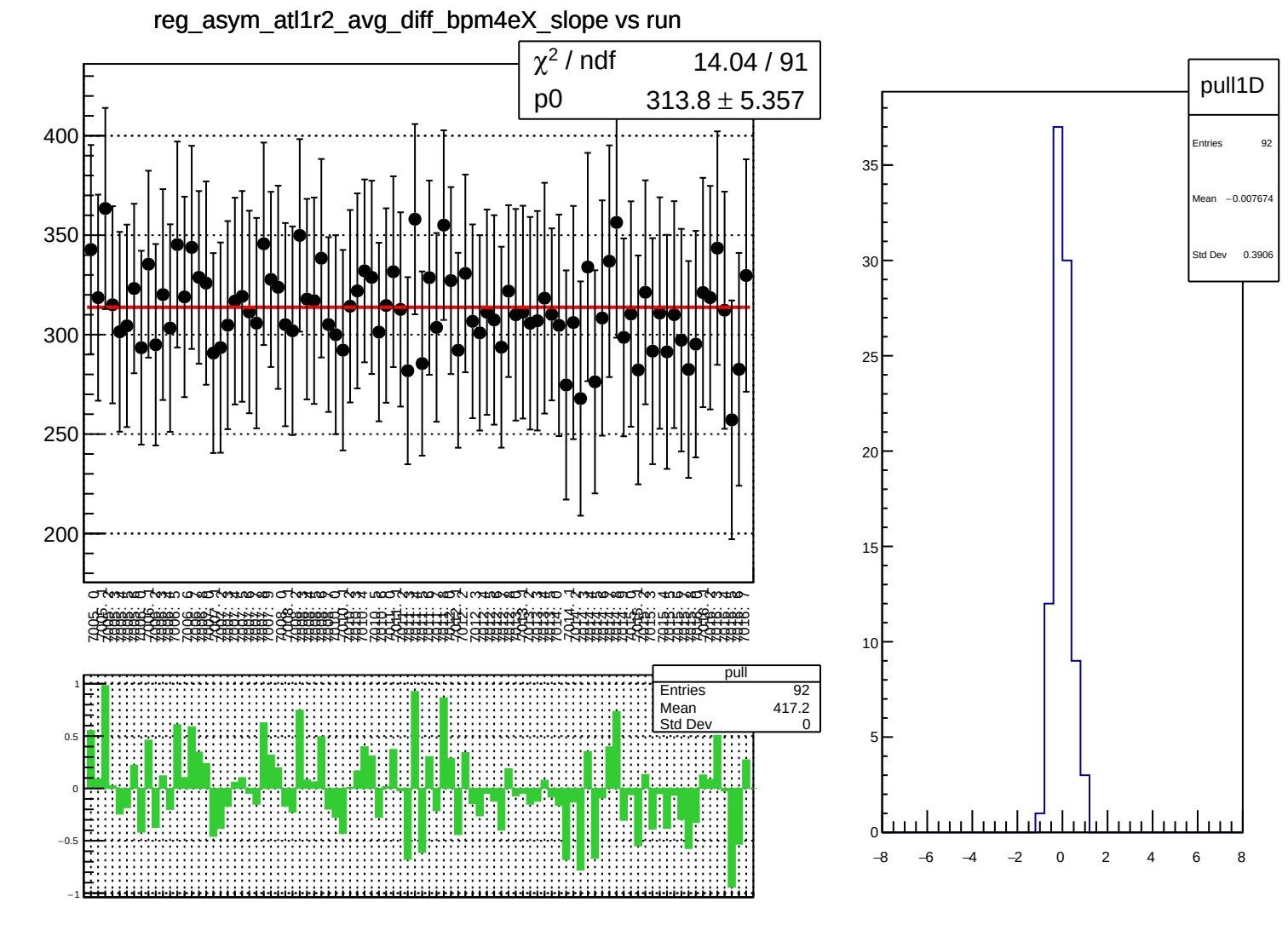

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.52 / 91
p0 −10.62 ± 1.664
pull
Entries 92
Mean −2279
Std Dev 0

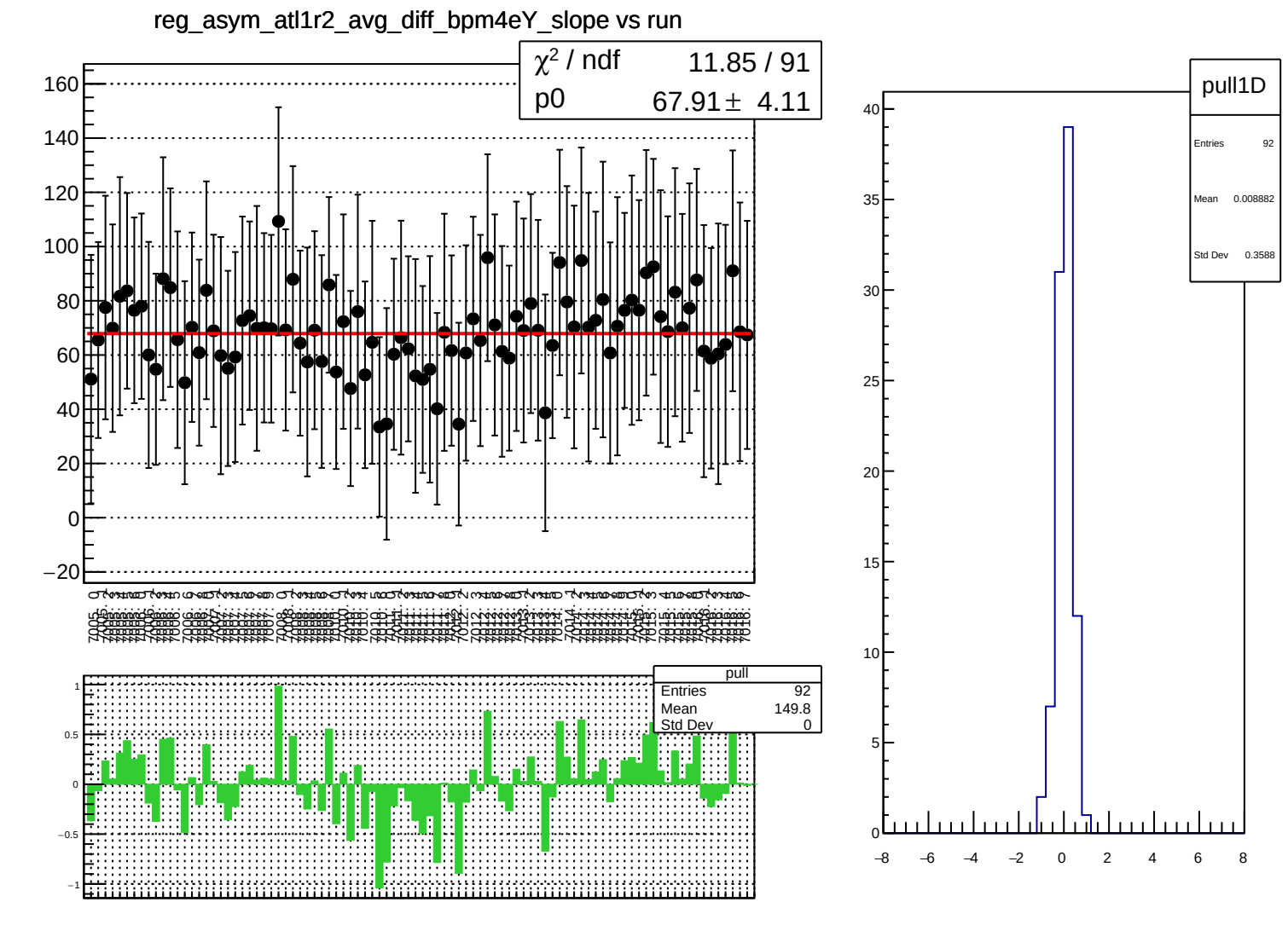

pull1D
Entries 92
Mean 0.0006174
Std Dev 0.7483

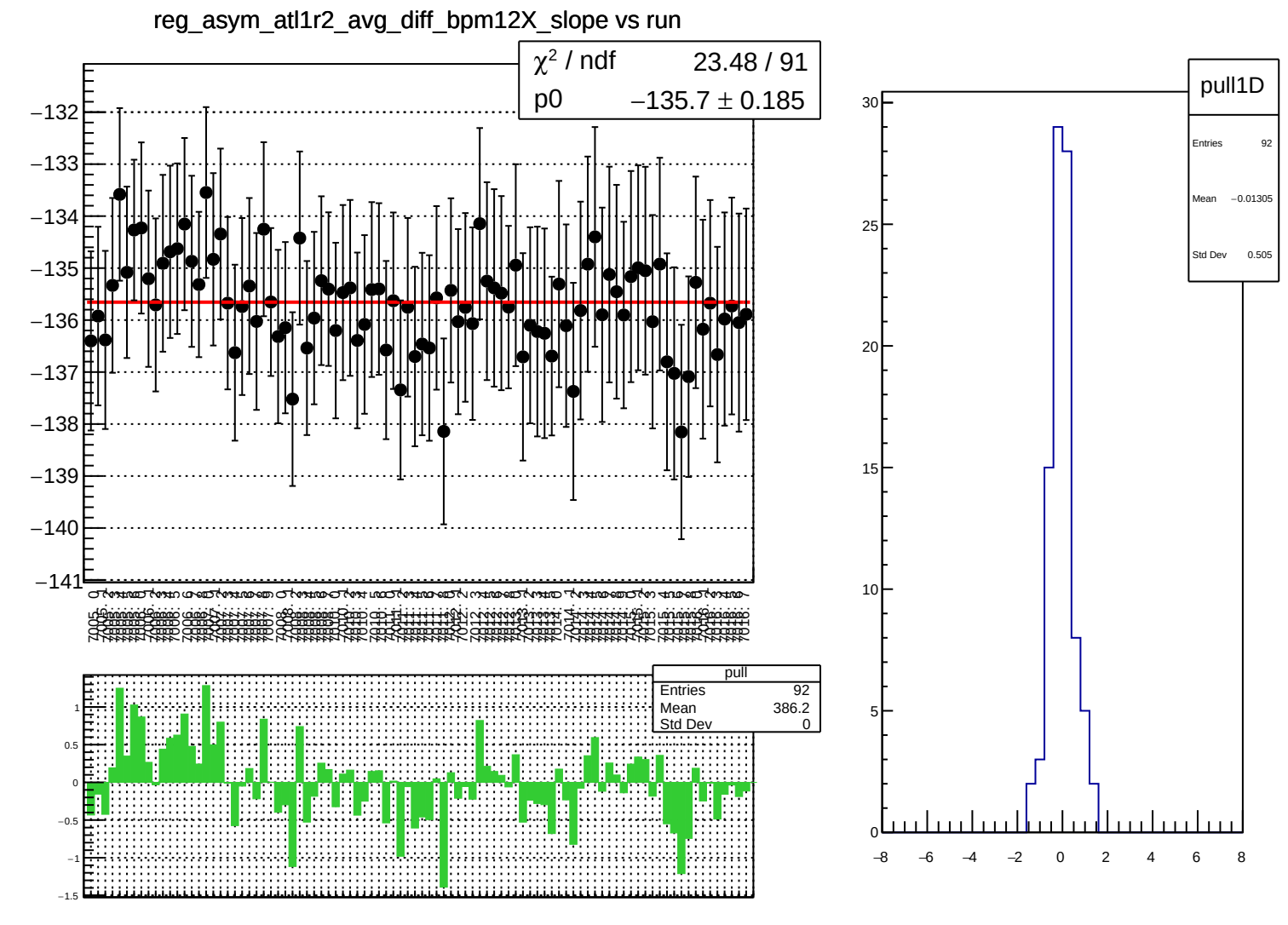

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 93.32 / 91
p0 18.68 ± 0.0748
pull
Entries 92
Mean 704
Std Dev 0
pull1D
Entries 92
Mean 0.01019
Std Dev 1.007

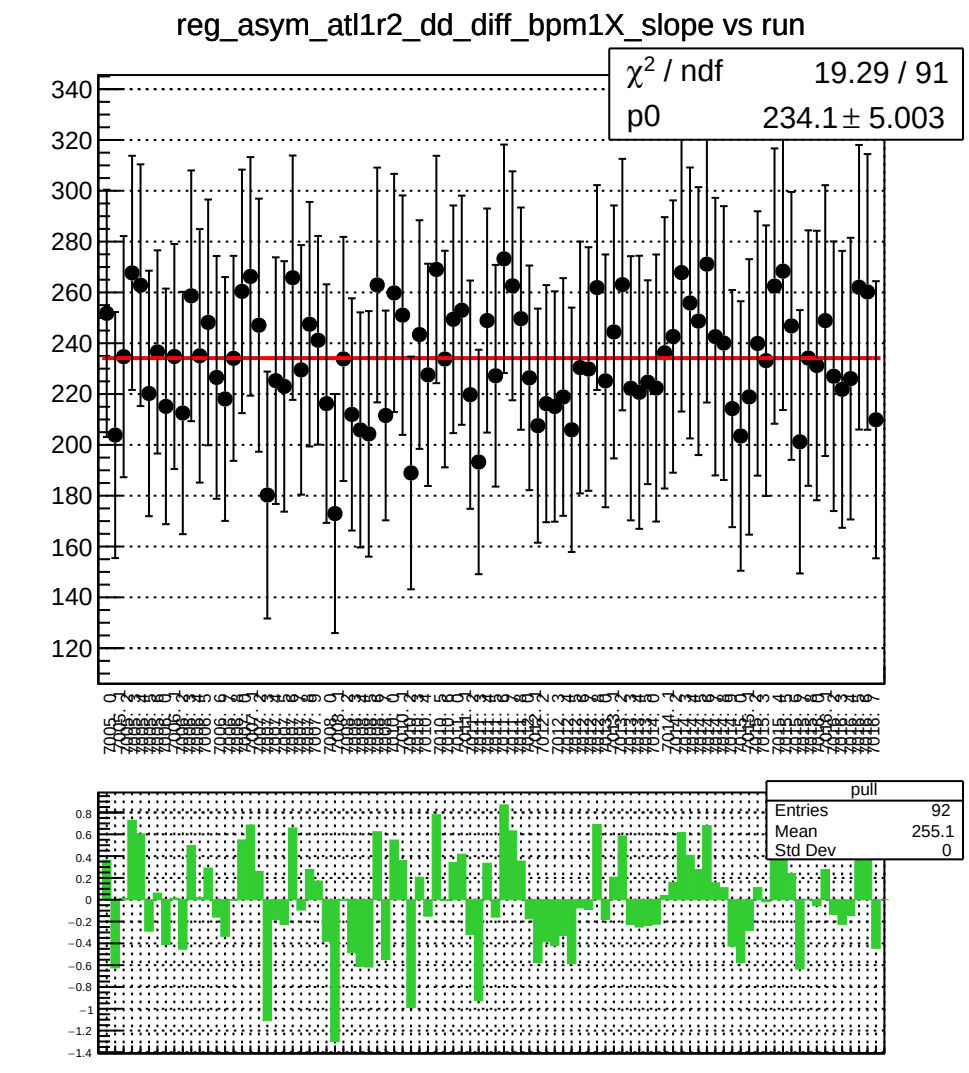

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 14.33 / 91
p0 −258.4 ± 5.786
pull
Entries 92
Mean 371.7
Std Dev 0
pull1D
Entries 92
Mean 0.007898
Std Dev 0.3945

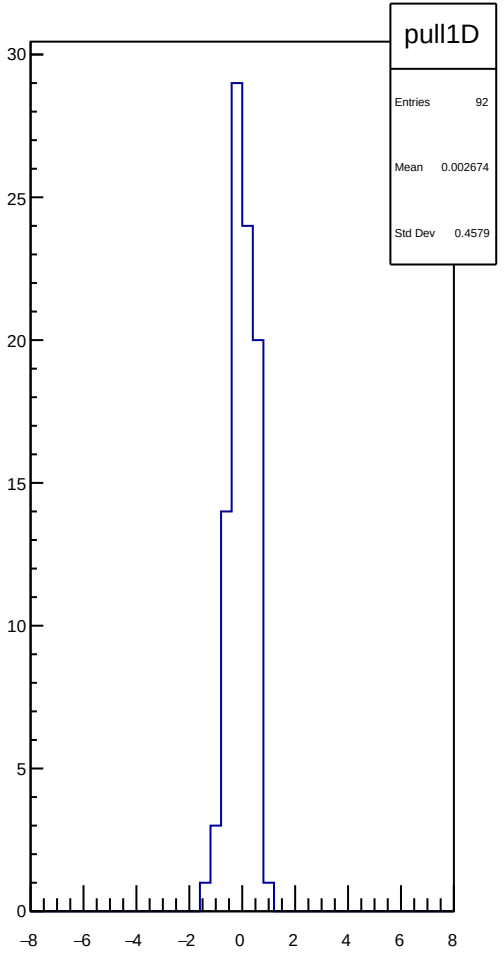

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.93 / 91
p0 −6.04 ± 3.923
pull
Entries 92
Mean 128.5
Std Dev 0
pull1D
Entries 92
Mean −0.007112
Std Dev 0.3446

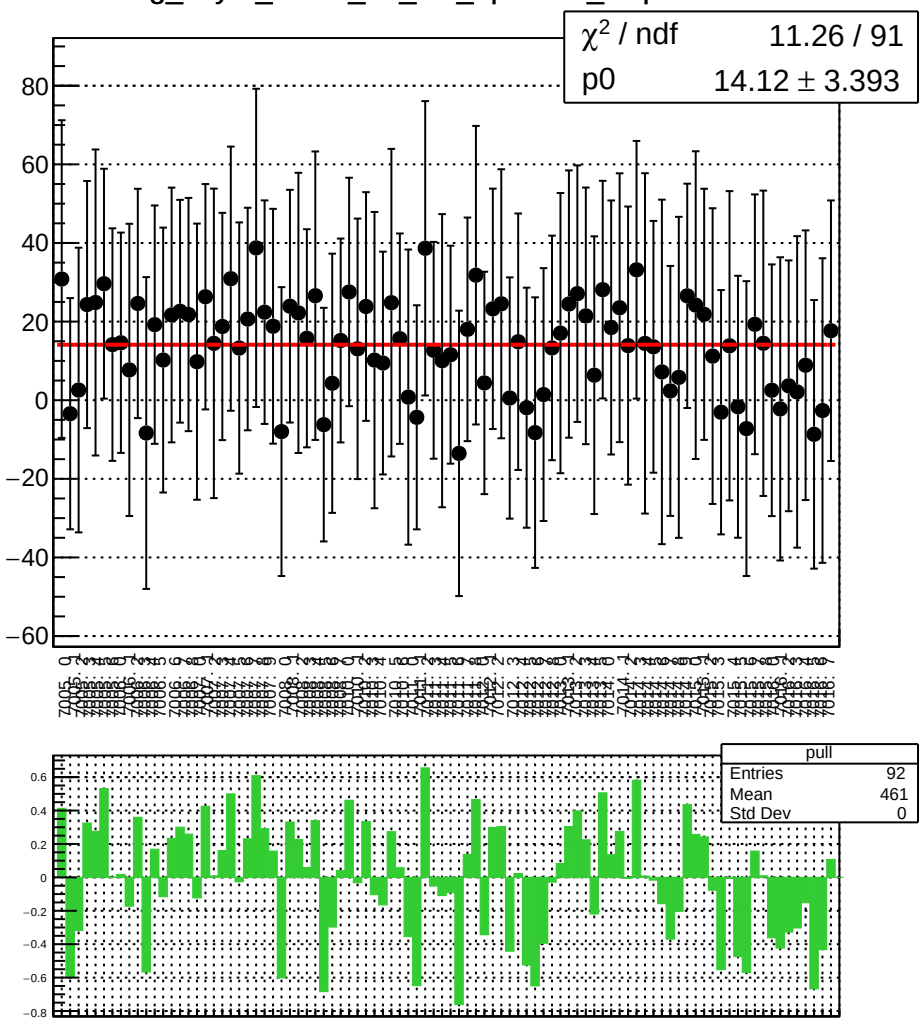

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.04 / 91
p0 313.8 ± 5.357
400
350
300
250
200
pull
Entries 92
Mean 417.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.007674
Std Dev 0.3906
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

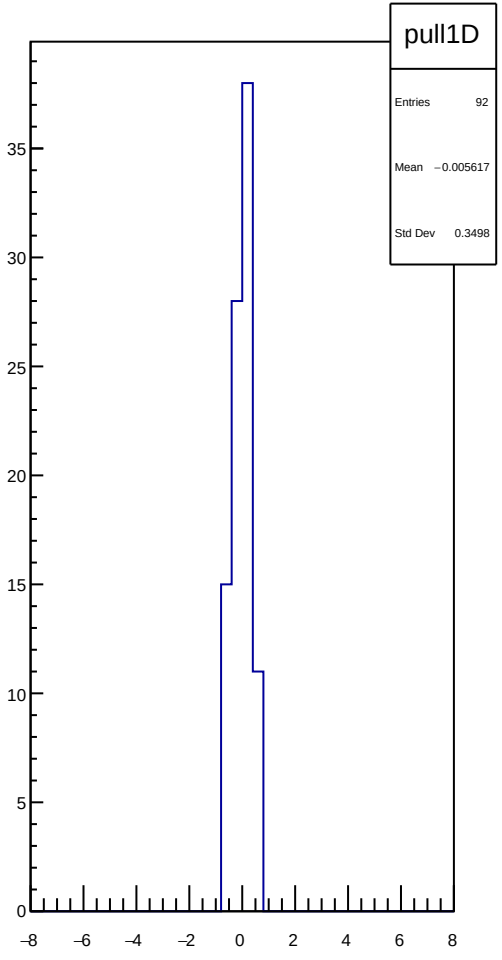

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.85 / 91
p0 67.91 ± 4.11
pull
Entries 92
Mean 149.8
Std Dev 0
pull1D
Entries 92
Mean 0.008882
Std Dev 0.3588

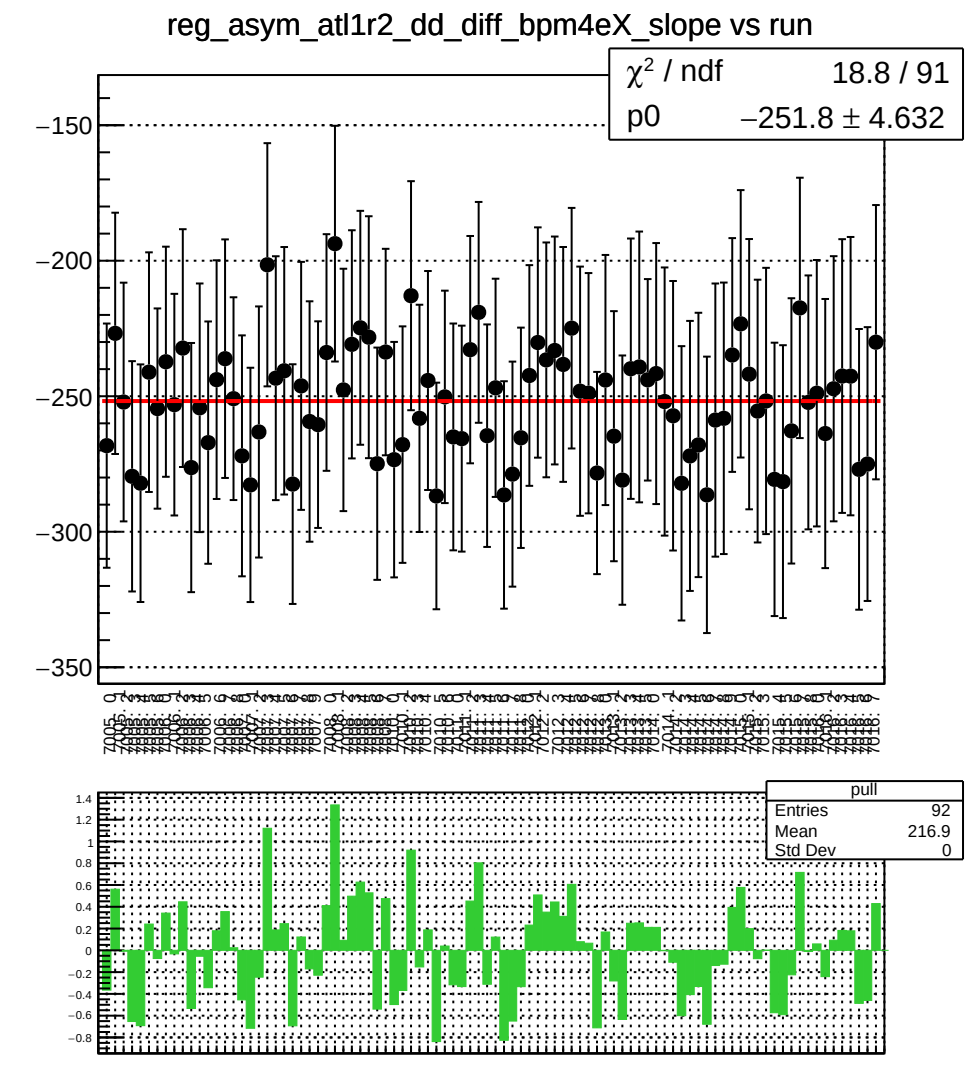

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 23.48 / 91
p0 −135.7 ± 0.185
pull
Entries 92
Mean 386.2
Std Dev 0
pull1D
Entries 92
Mean −0.01305
Std Dev 0.505

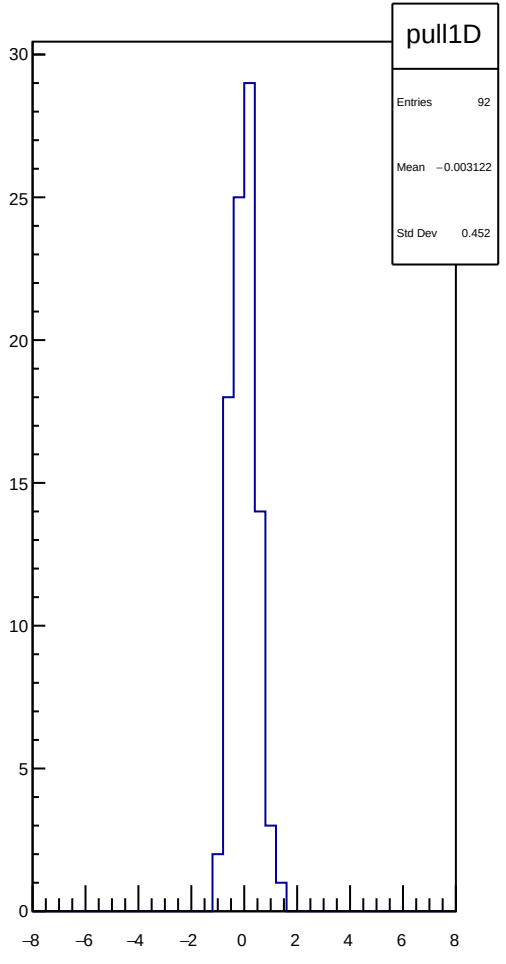

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 19.29 / 91
p0 234.1 ± 5.003
pull
Entries 92
Mean 255.1
Std Dev 0

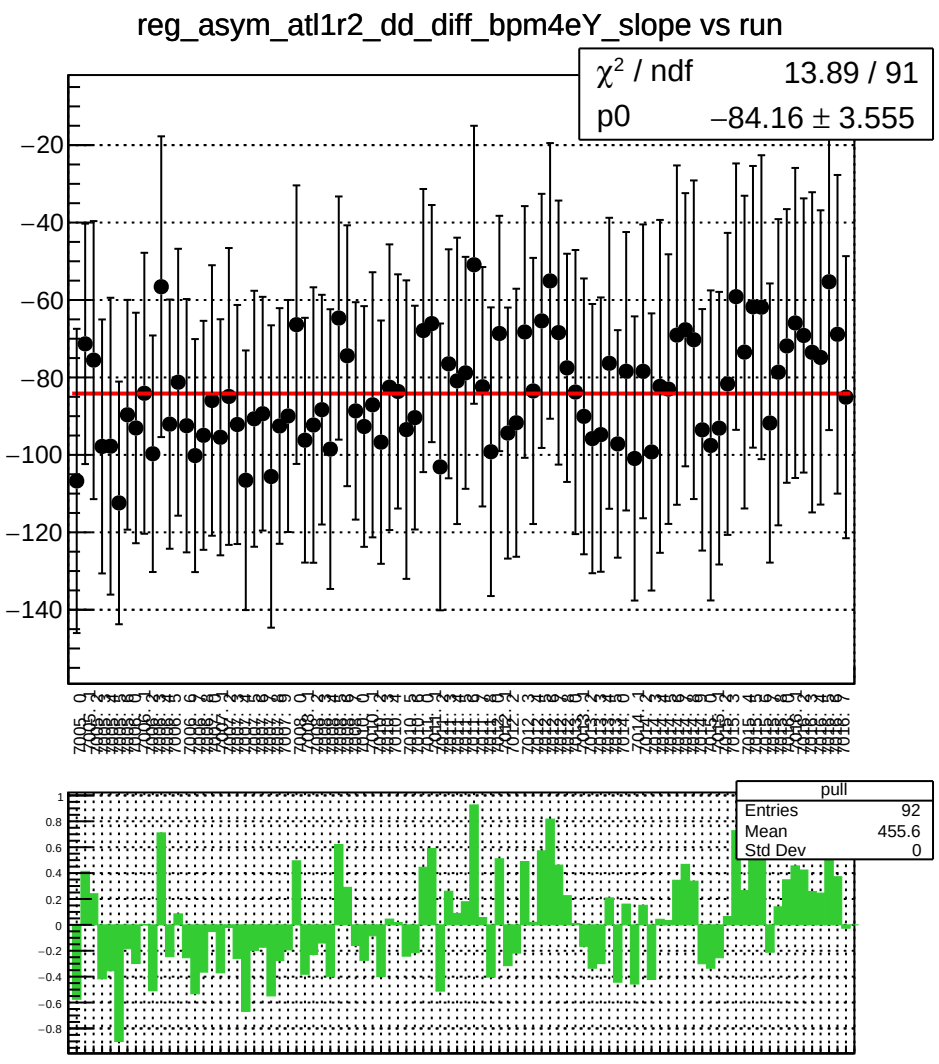

pull1D
Entries 92
Mean 0.002674
Std Dev 0.4579

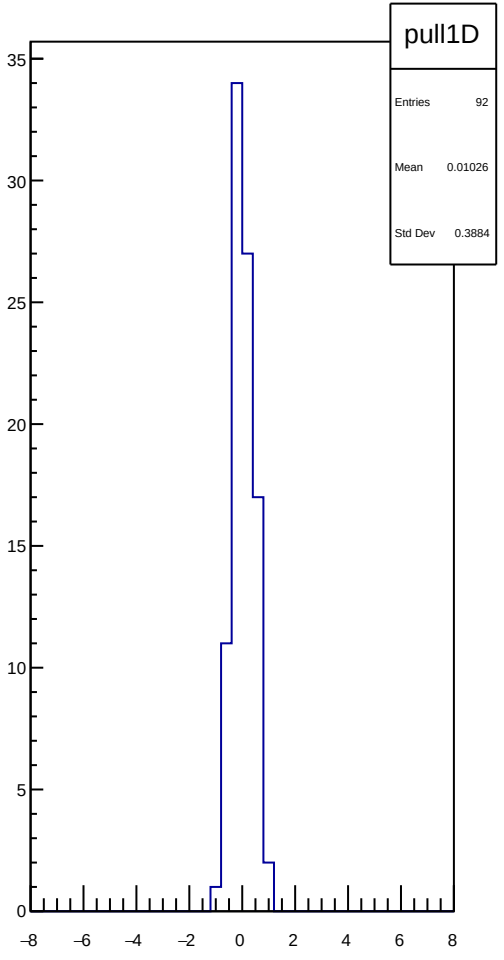

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.26 / 91
p0 14.12 ± 3.393
pull
Entries 92
Mean 461
Std Dev 0

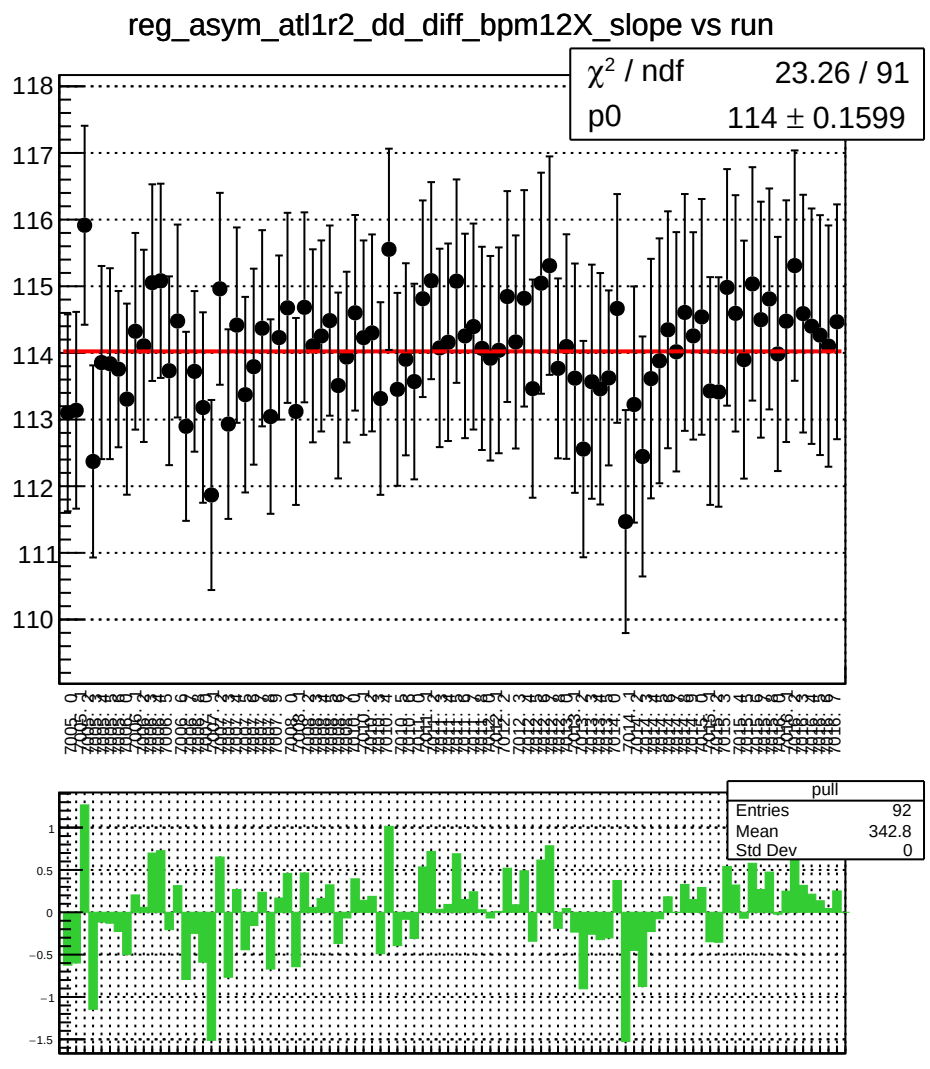

pull1D
Entries 92
Mean −0.005617
Std Dev 0.3498

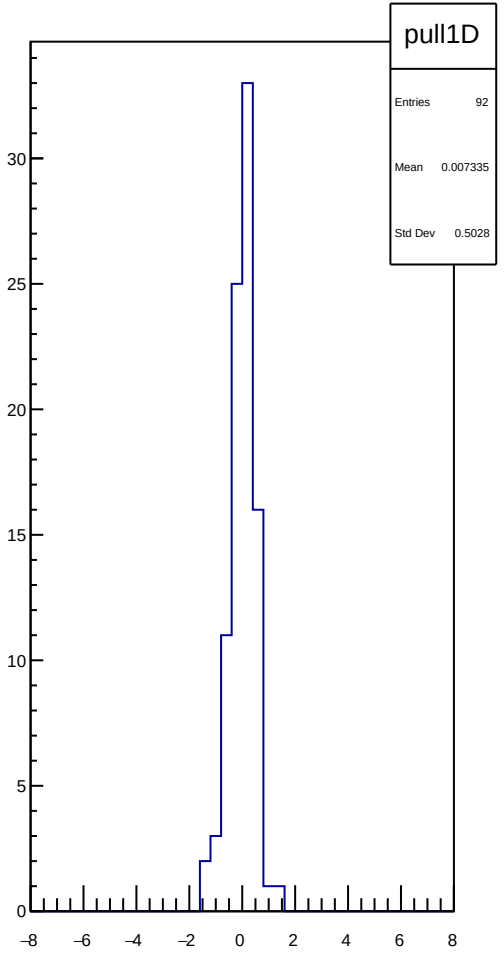

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.8 / 91
p0 −251.8 ± 4.632
−150
−200
−250
−300
−350
pull
Entries 92
Mean 216.9
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

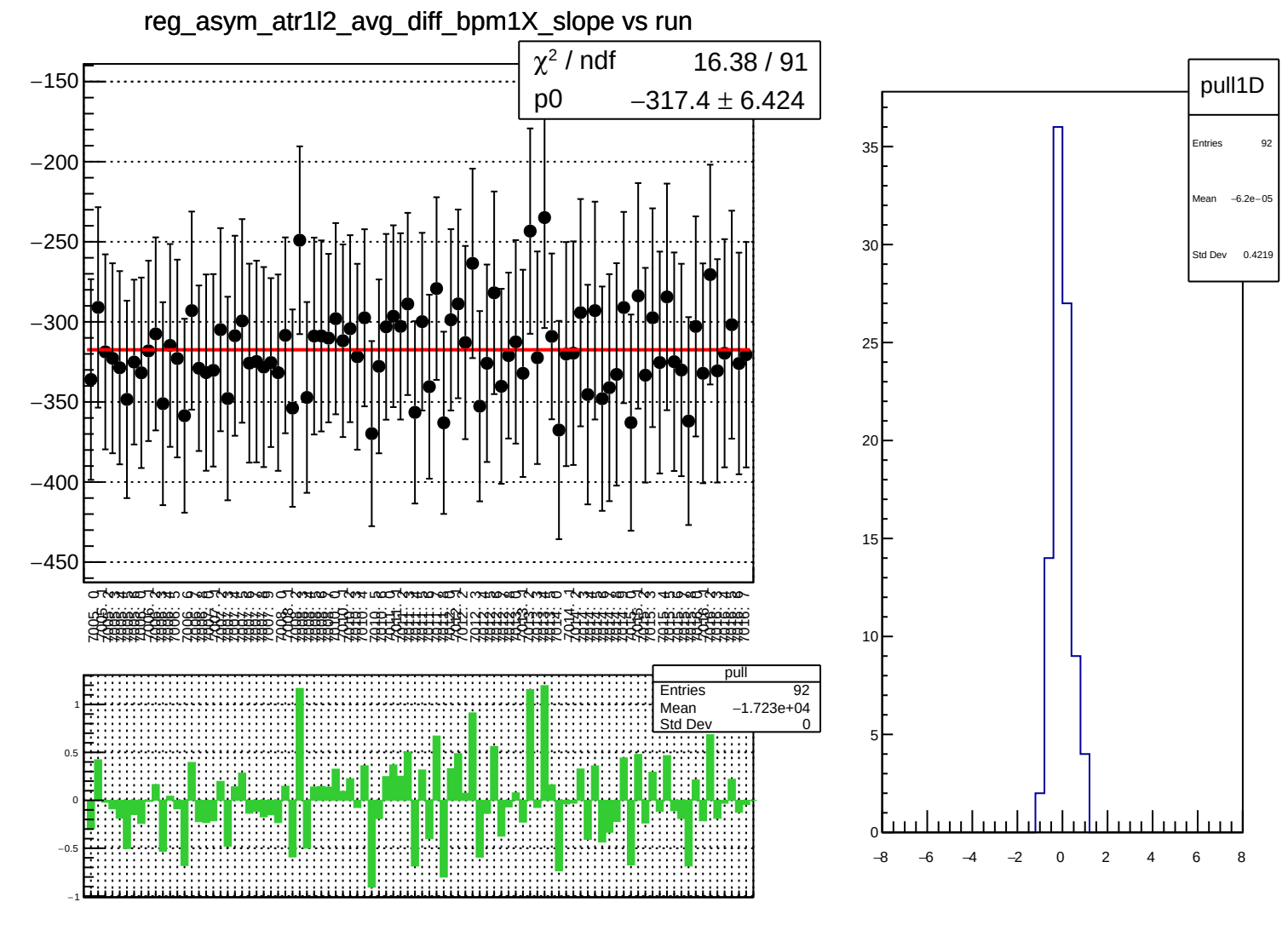

pull1D
Entries 92
Mean −0.003122
Std Dev 0.452
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

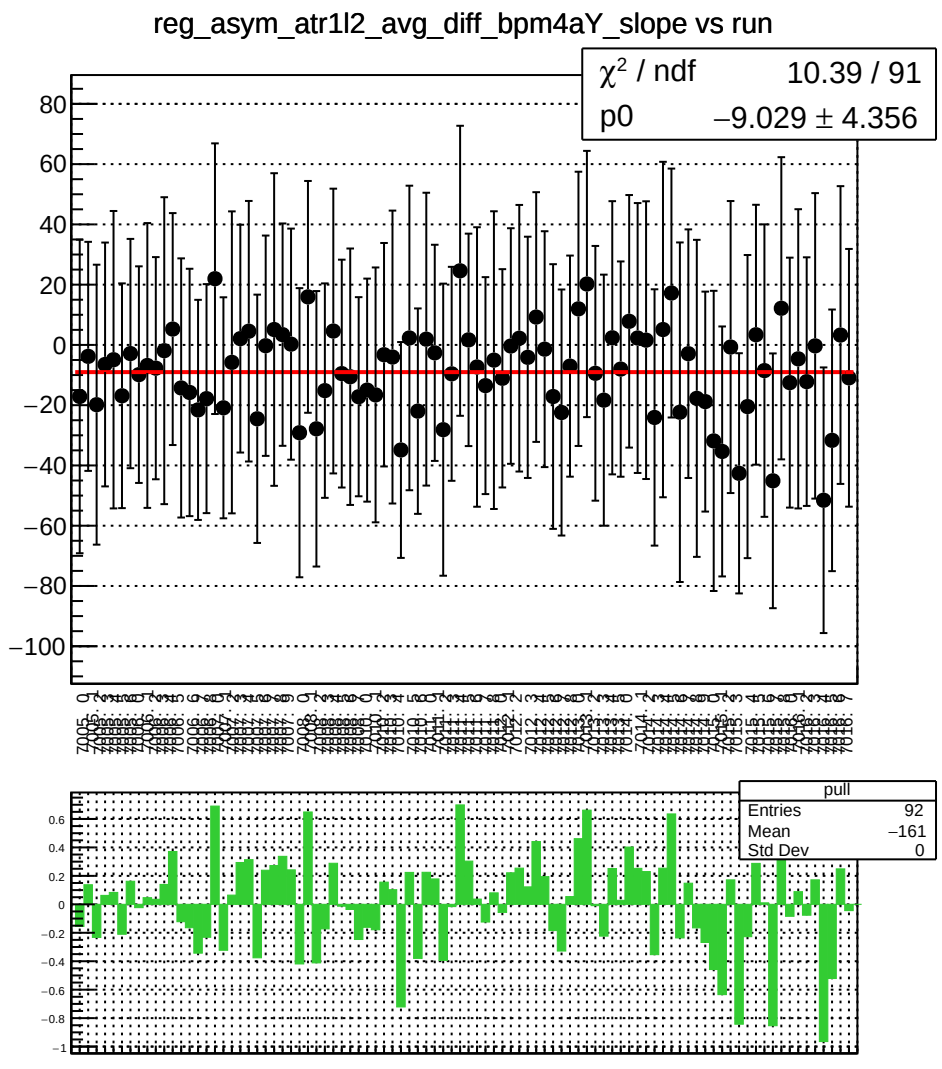

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.89 / 91
p0 −84.16 ± 3.555
pull
Entries 92
Mean 455.6
Std Dev 0

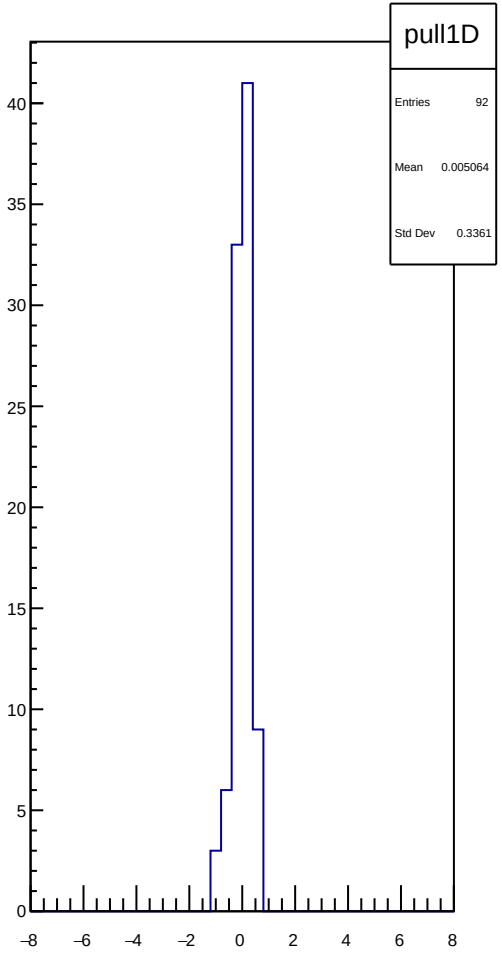

pull1D
Entries 92
Mean 0.01026
Std Dev 0.3884

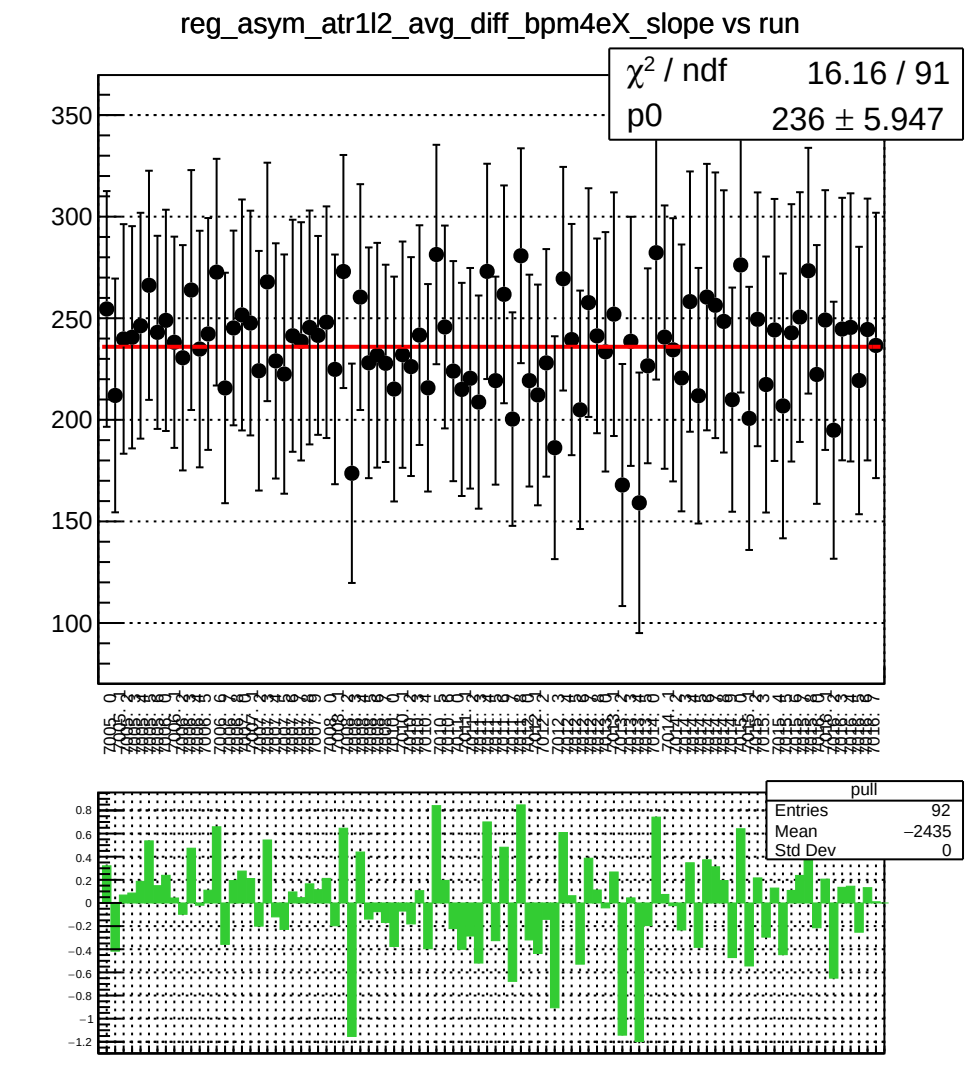

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 23.26 / 91
p0 114 ± 0.1599
pull
Entries 92
Mean 342.8
Std Dev 0

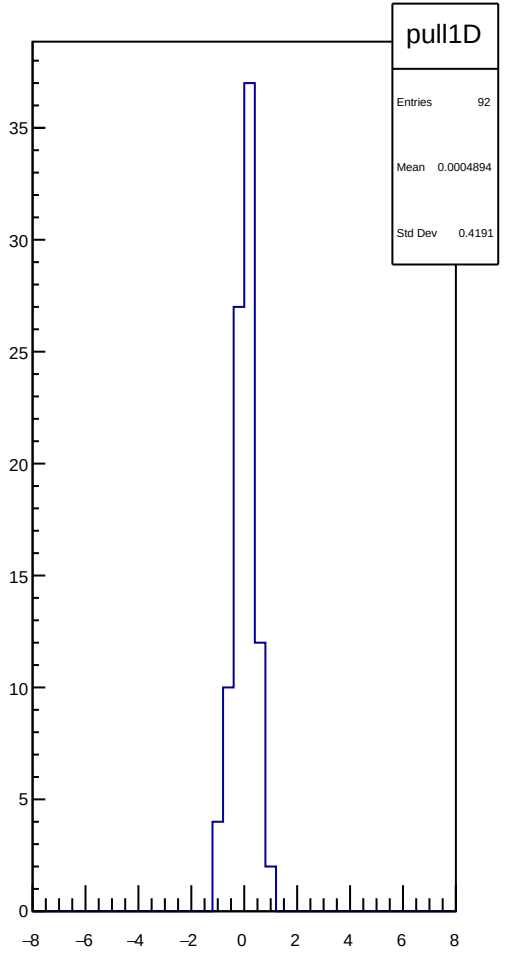

pull1D
Entries 92
Mean 0.007335
Std Dev 0.5028

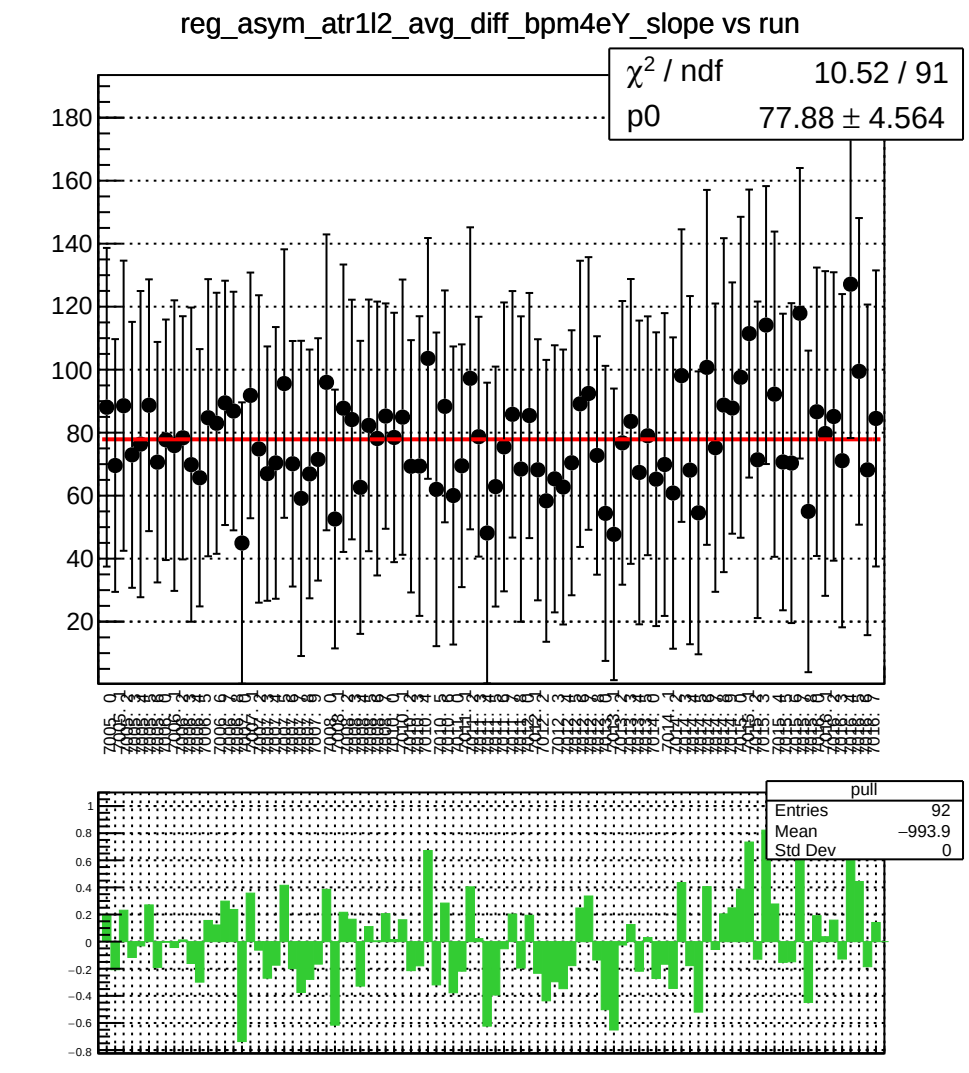

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 16.38 / 91
p0 −317.4 ± 6.424
pull
Entries 92
Mean −1.723e+04
Std Dev 0
pull1D
Entries 92
Mean −6.2e−05
Std Dev 0.4219

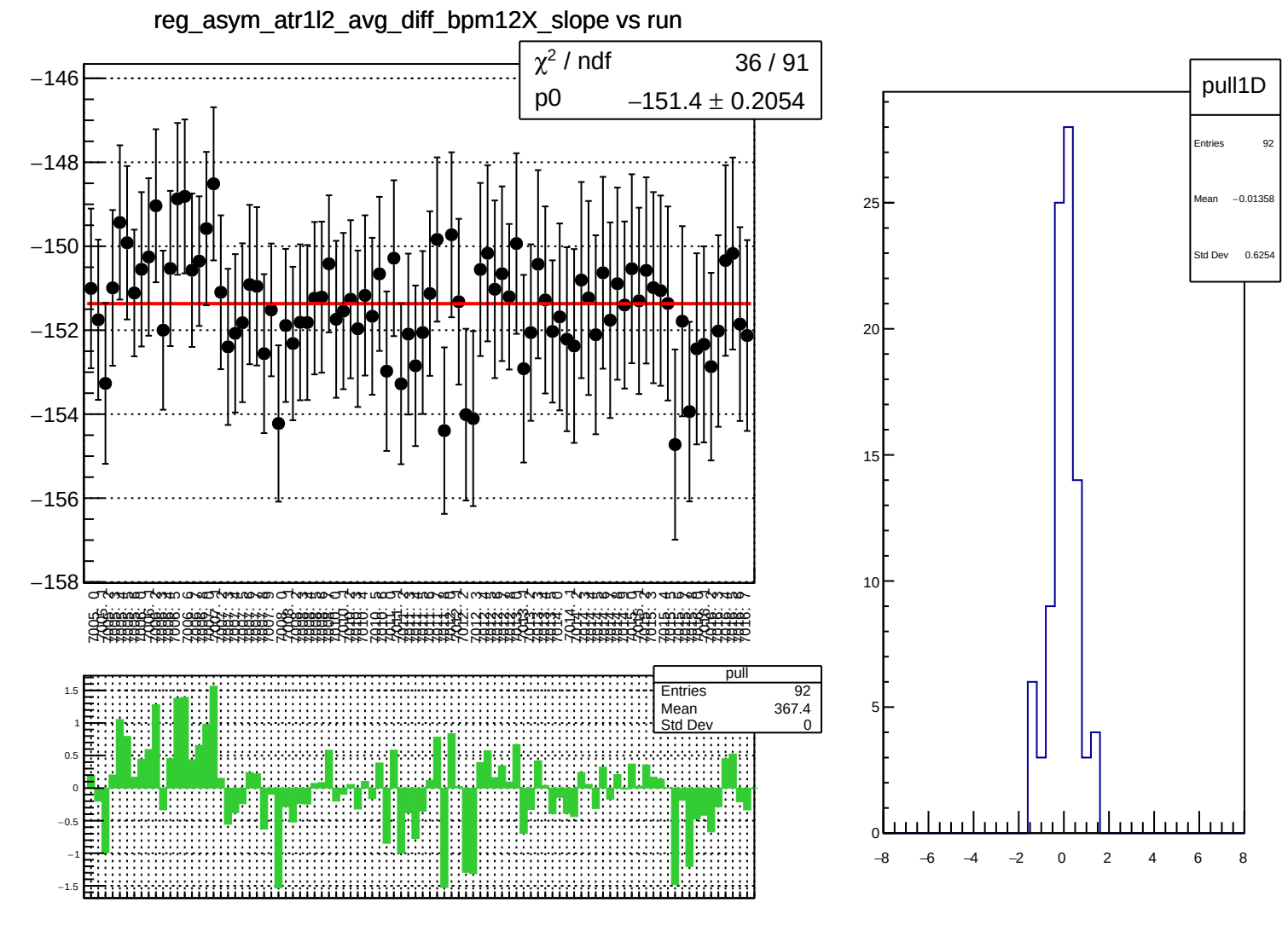

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.39 / 91
p0 −9.029 ± 4.356
pull
Entries 92
Mean −161
Std Dev 0

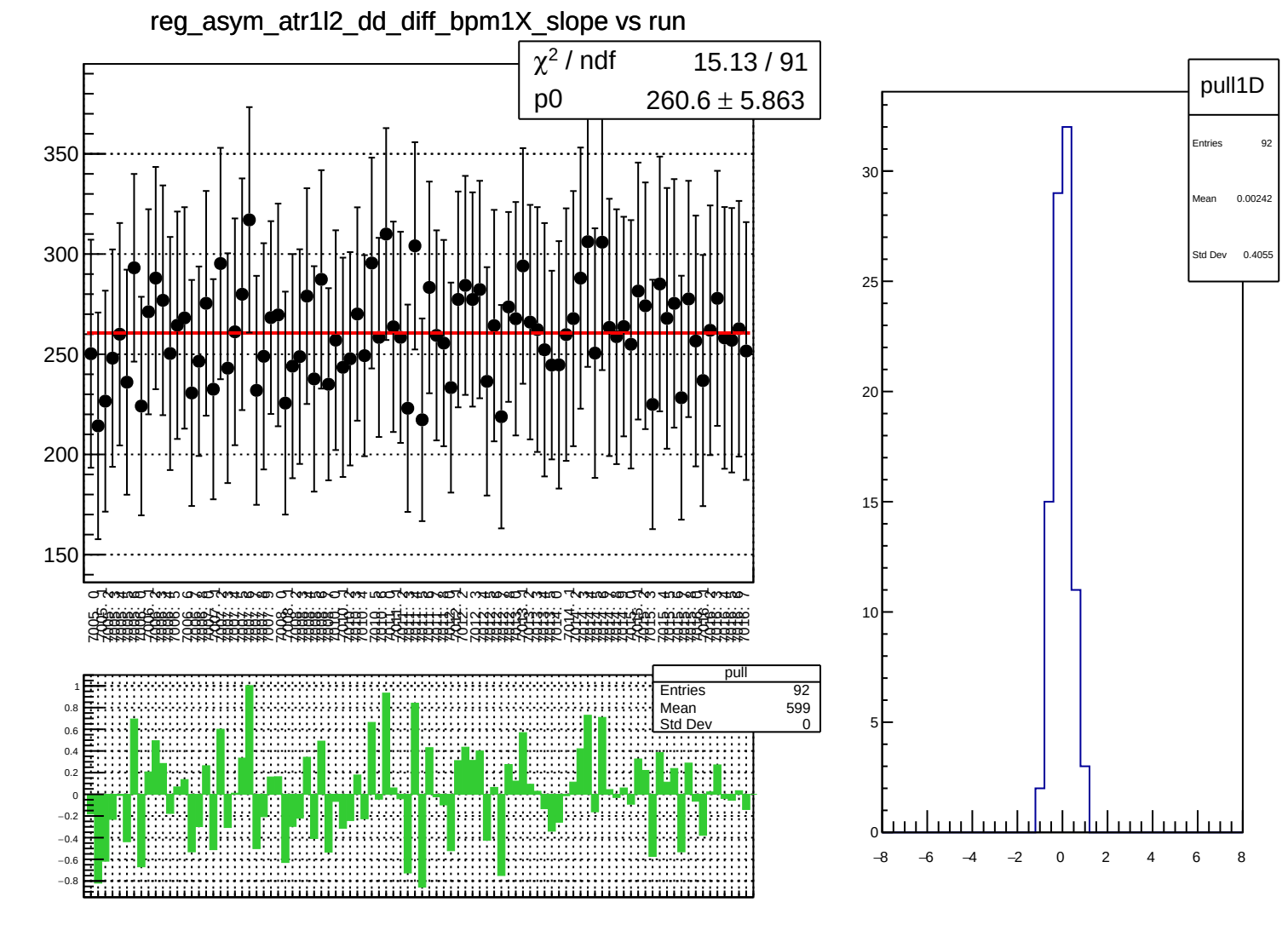

pull1D
Entries 92
Mean 0.005064
Std Dev 0.3361

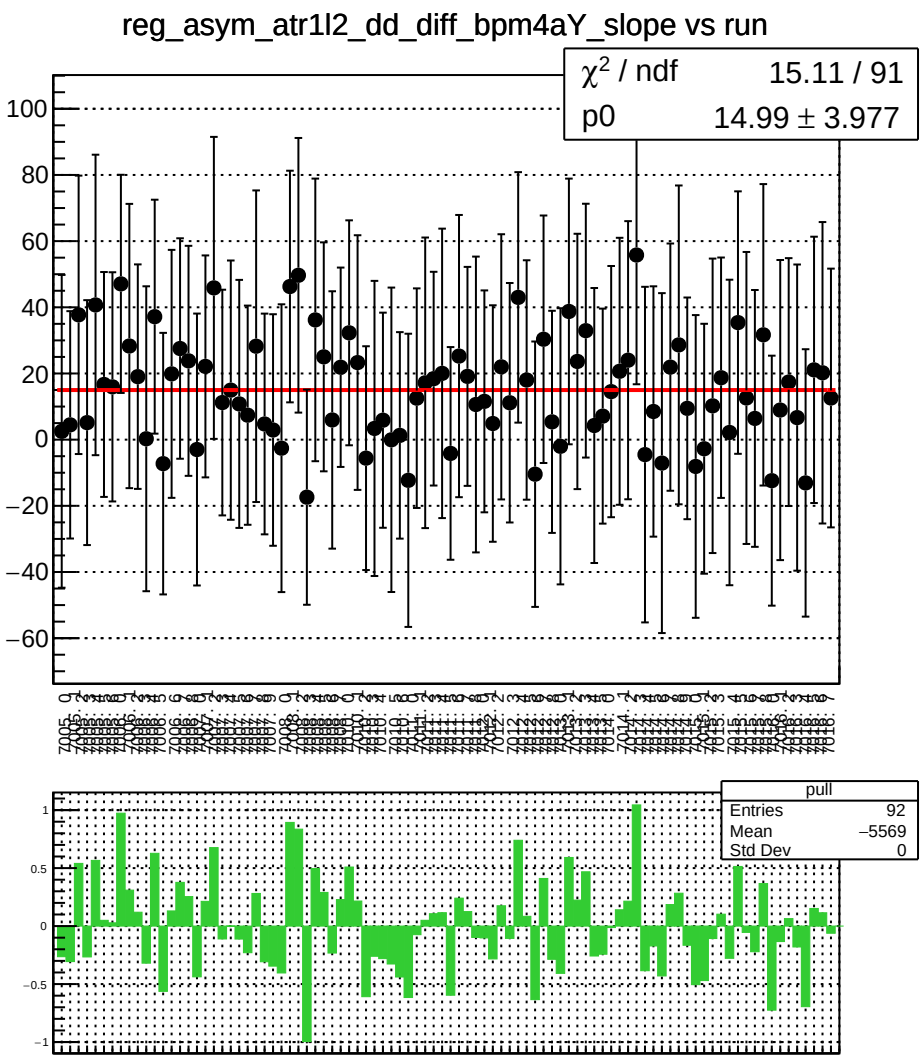

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.16 / 91
p0 236 ± 5.947
350
300
250
200
150
100
pull
Entries 92
Mean −2435
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

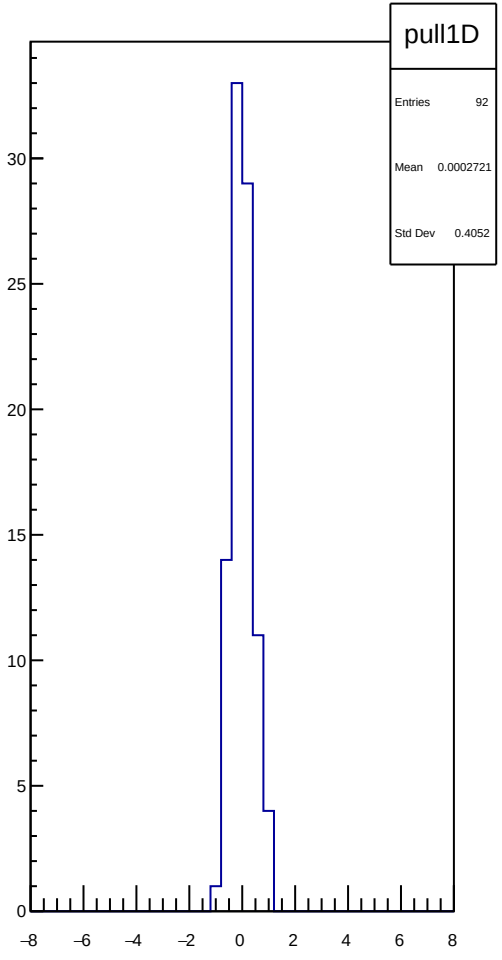

pull1D
Entries 92
Mean 0.0004894
Std Dev 0.4191
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

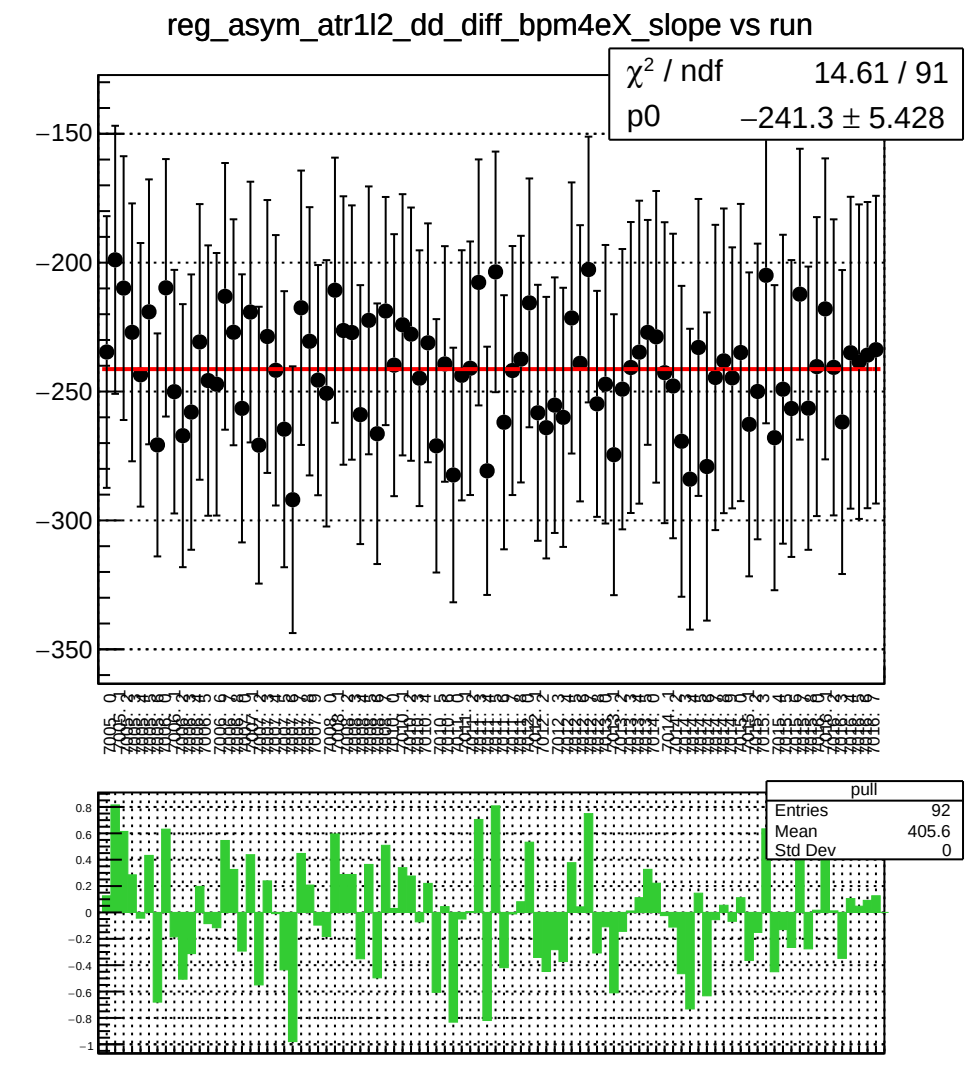

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.52 / 91
p0 77.88 ± 4.564
pull
Entries 92
Mean −993.9
Std Dev 0
pull1D
Entries 92
Mean −0.001396
Std Dev 0.3382

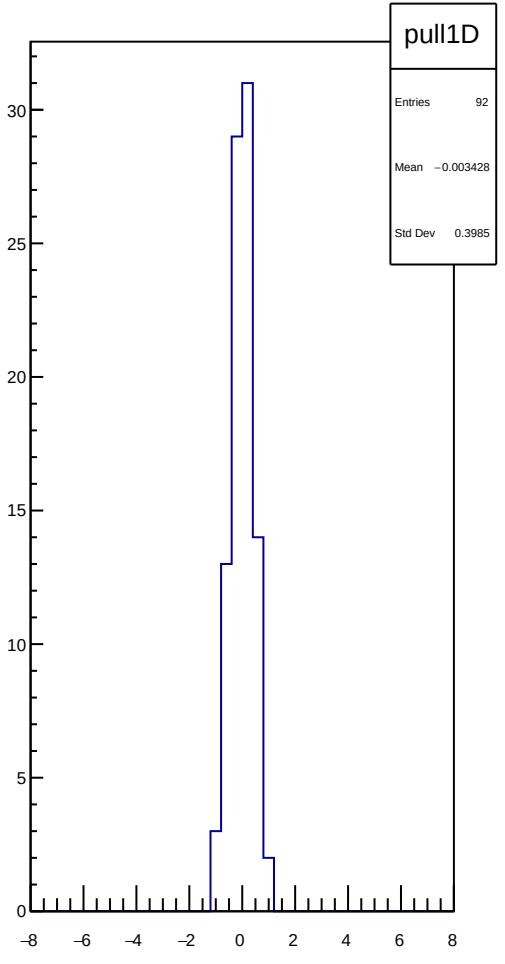

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 36 / 91
p0 −151.4 ± 0.2054
−146
−148
−150
−152
−154
−156
−158
pull
Entries 92
Mean 367.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.01358
Std Dev 0.6254
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

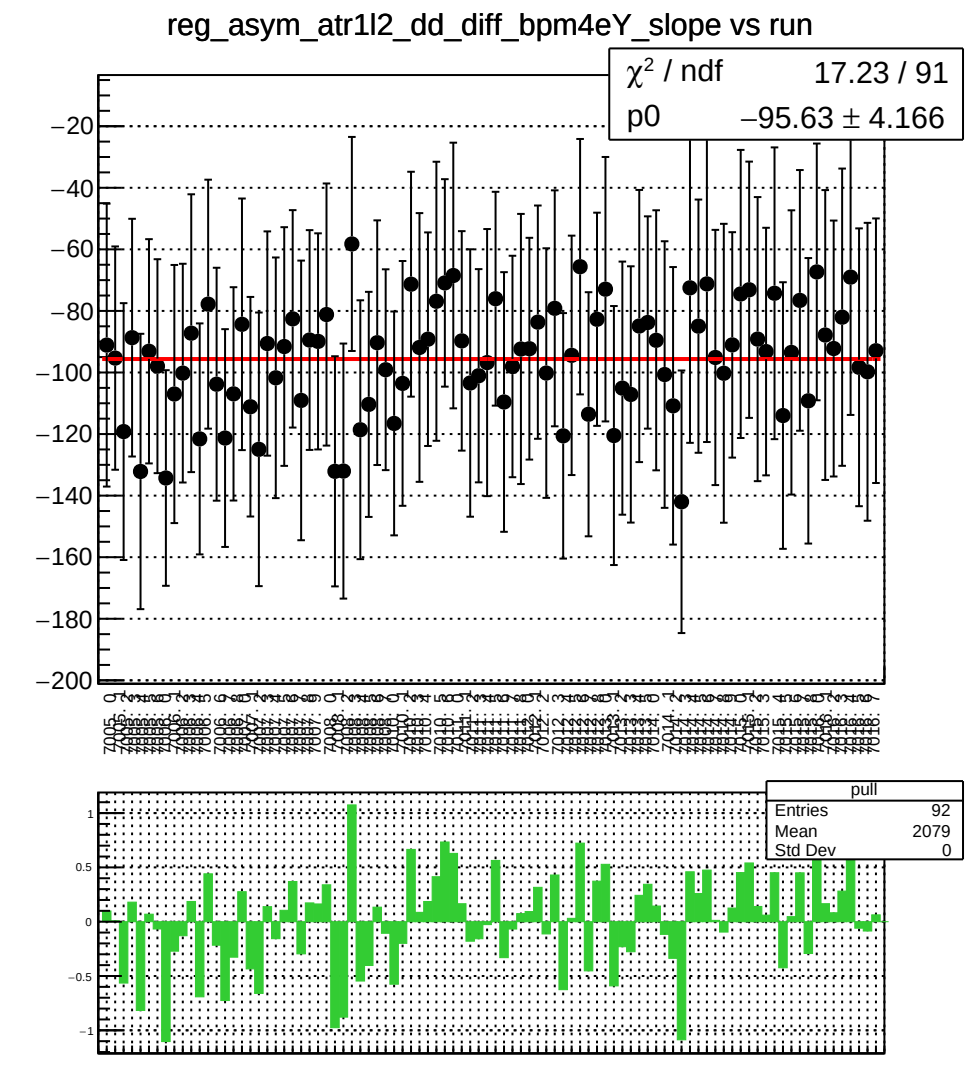

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 15.13 / 91
p0 260.6 ± 5.863
pull
Entries 92
Mean 599
Std Dev 0
pull1D
Entries 92
Mean 0.00242
Std Dev 0.4055

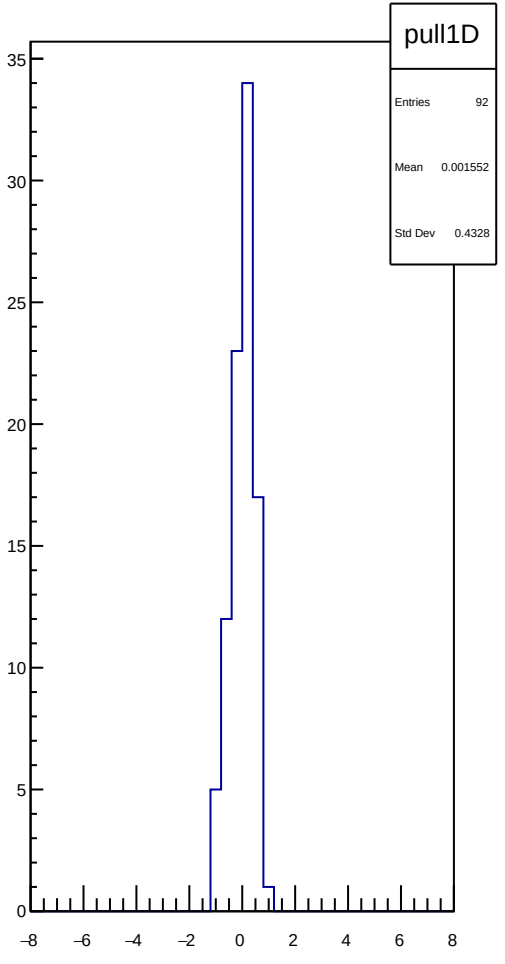

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.11 / 91
p0 14.99 ± 3.977
pull
Entries 92
Mean −5569
Std Dev 0

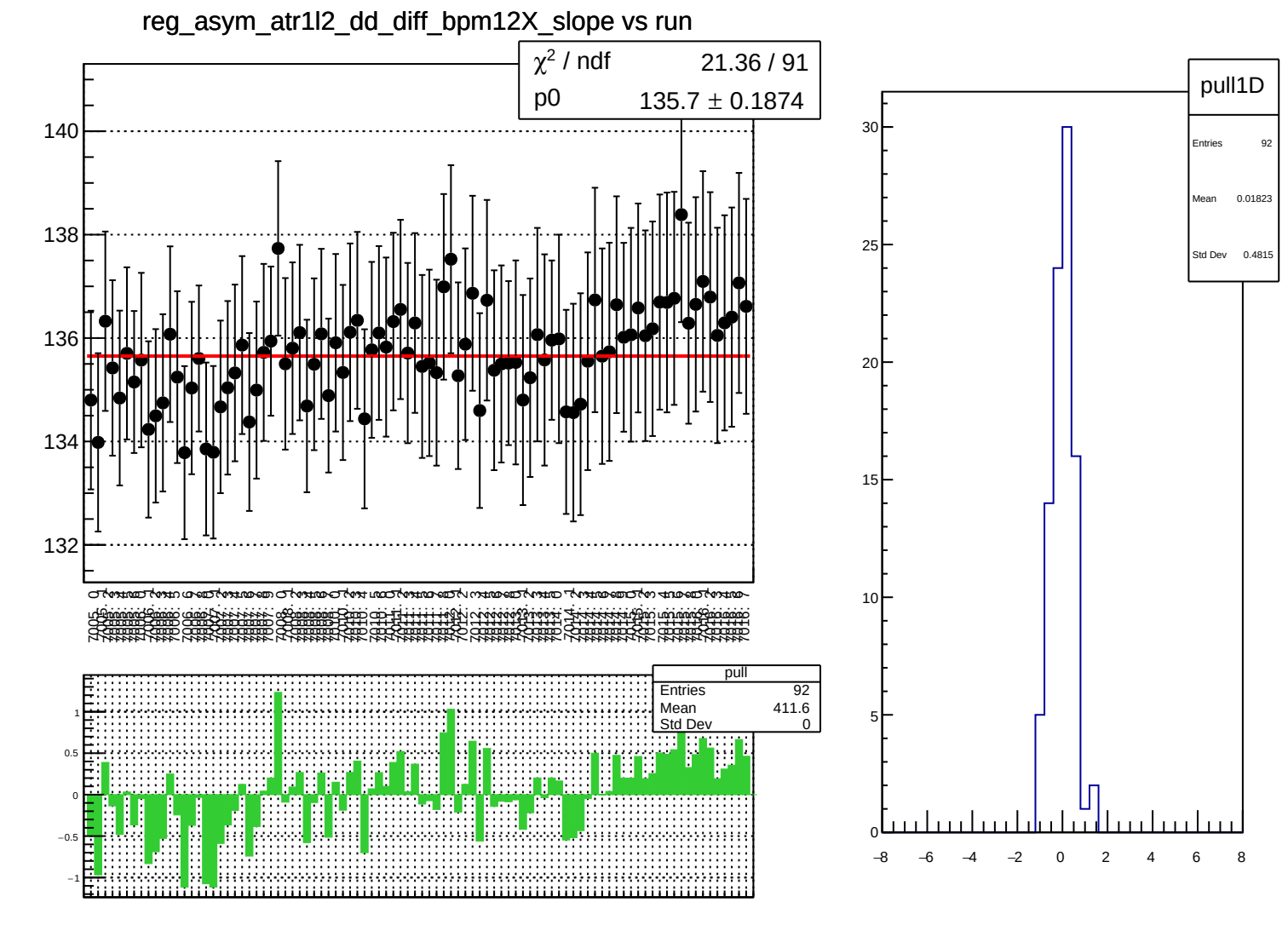

pull1D
Entries 92
Mean 0.0002721
Std Dev 0.4052

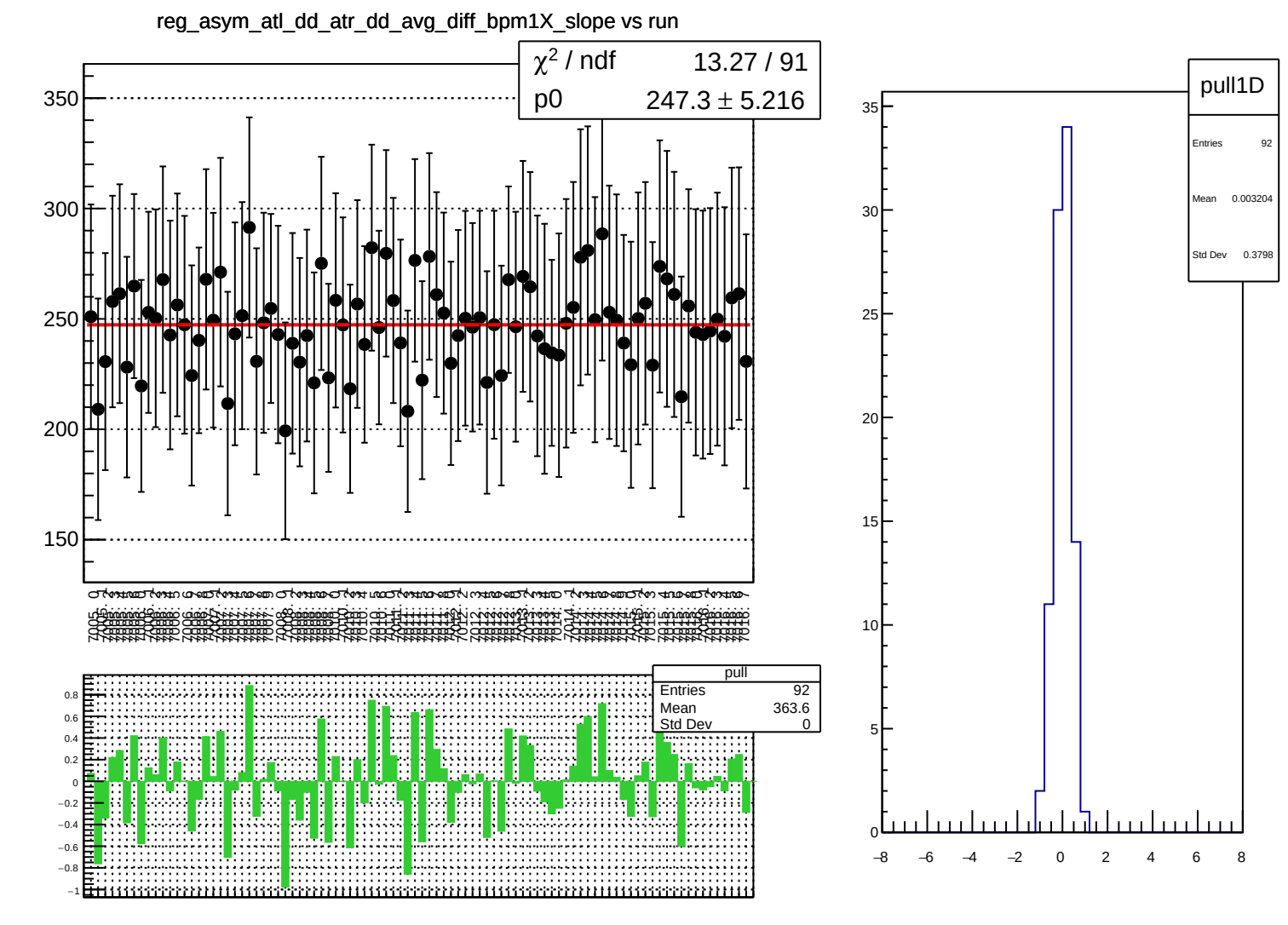

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.61 / 91
p0 −241.3 ± 5.428
−150
−200
−250
−300
−350
pull
Entries 92
Mean 405.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

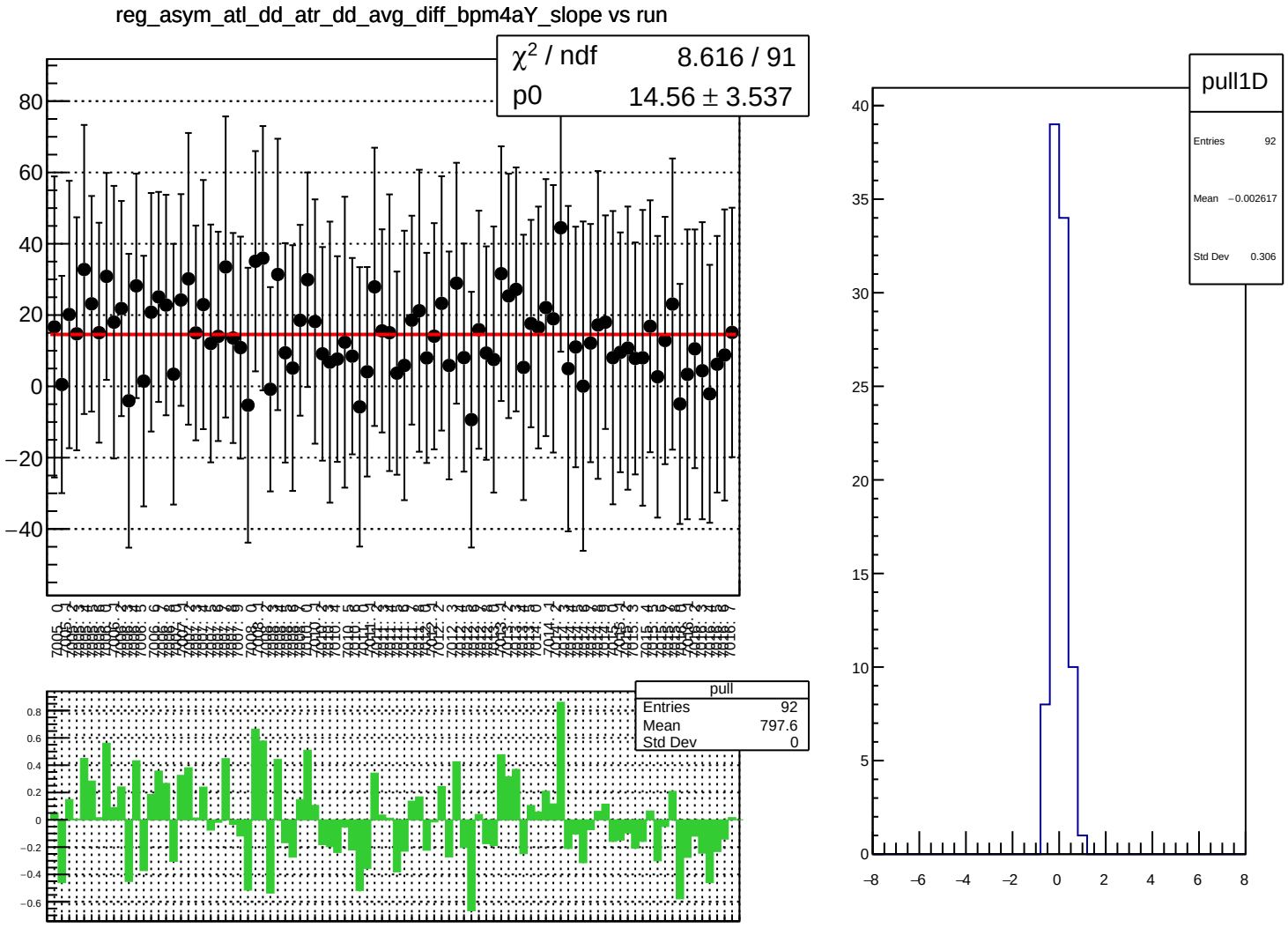

pull1D
Entries 92
Mean −0.003428
Std Dev 0.3985
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

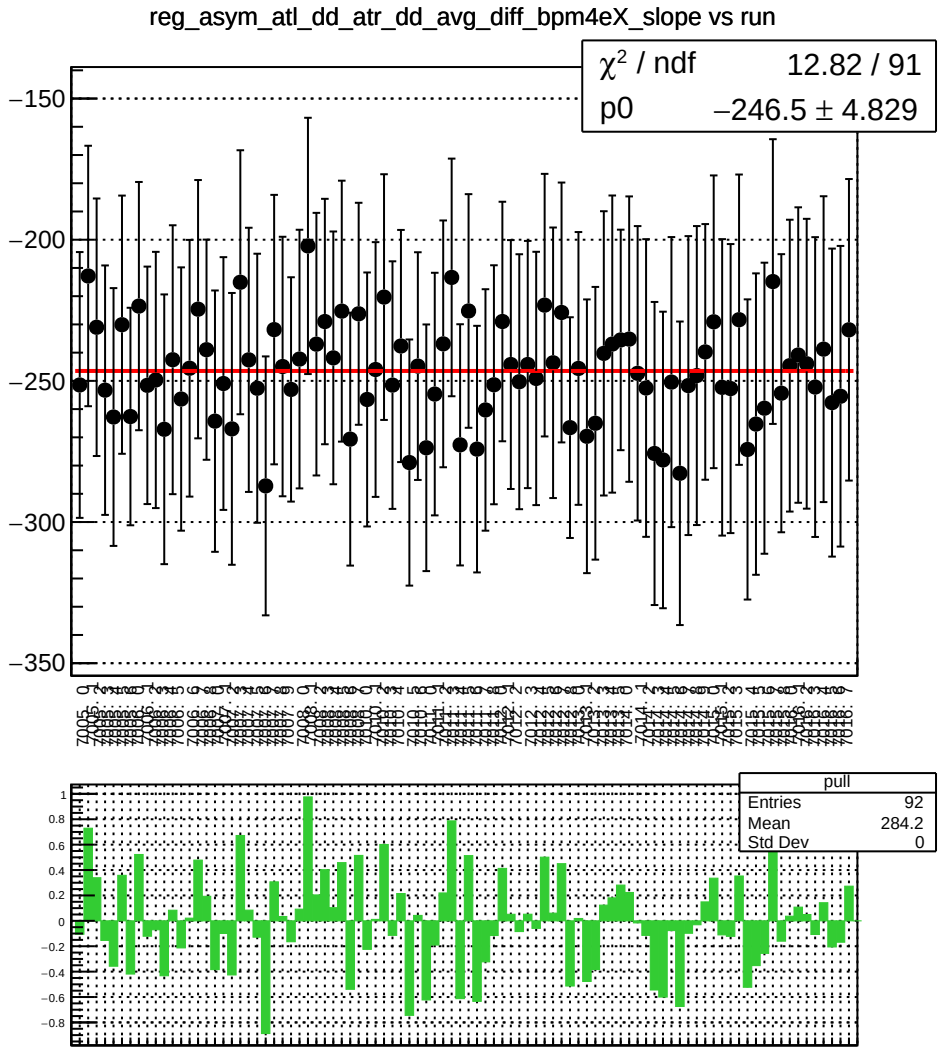

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.23 / 91
p0 −95.63 ± 4.166
pull
Entries 92
Mean 2079
Std Dev 0

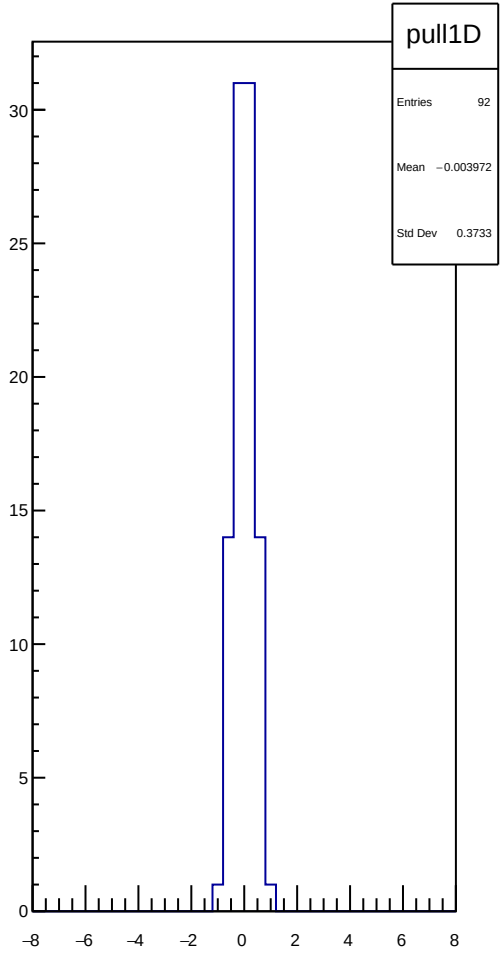

pull1D
Entries 92
Mean 0.001552
Std Dev 0.4328

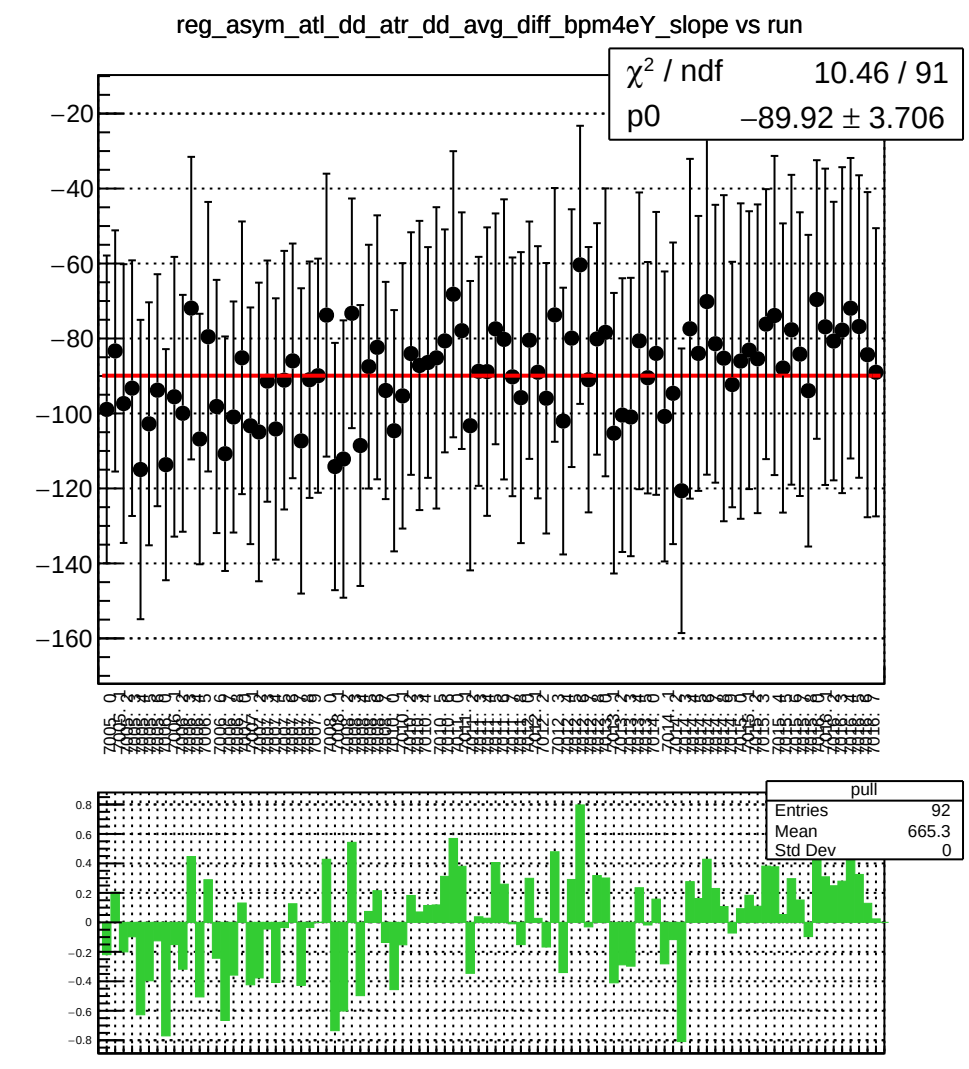

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 21.36 / 91
p0 135.7 ± 0.1874
140
138
136
134
132
pull
Entries 92
Mean 411.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.01823
Std Dev 0.4815
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

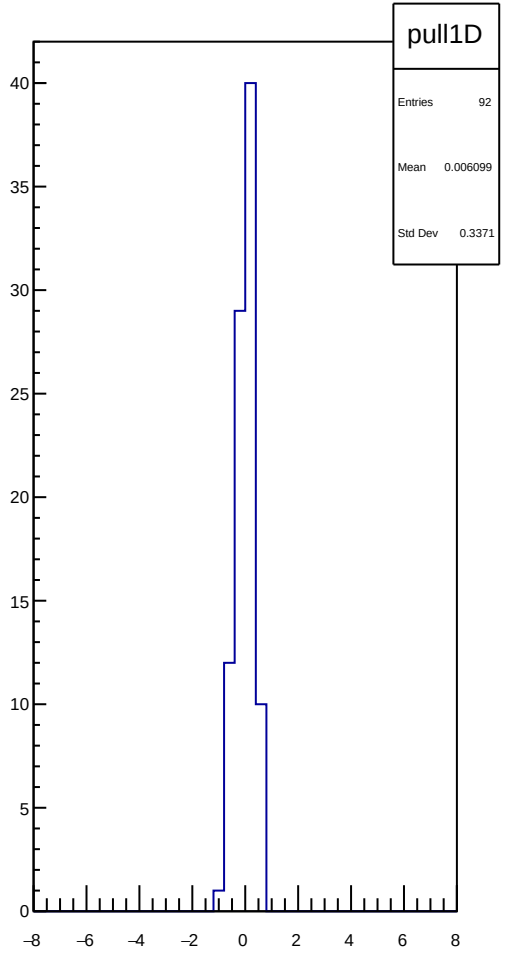

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 13.27 / 91
p0 247.3 ± 5.216
350
300
250
200
150
pull
Entries 92
Mean 363.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean 0.003204
Std Dev 0.3798
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

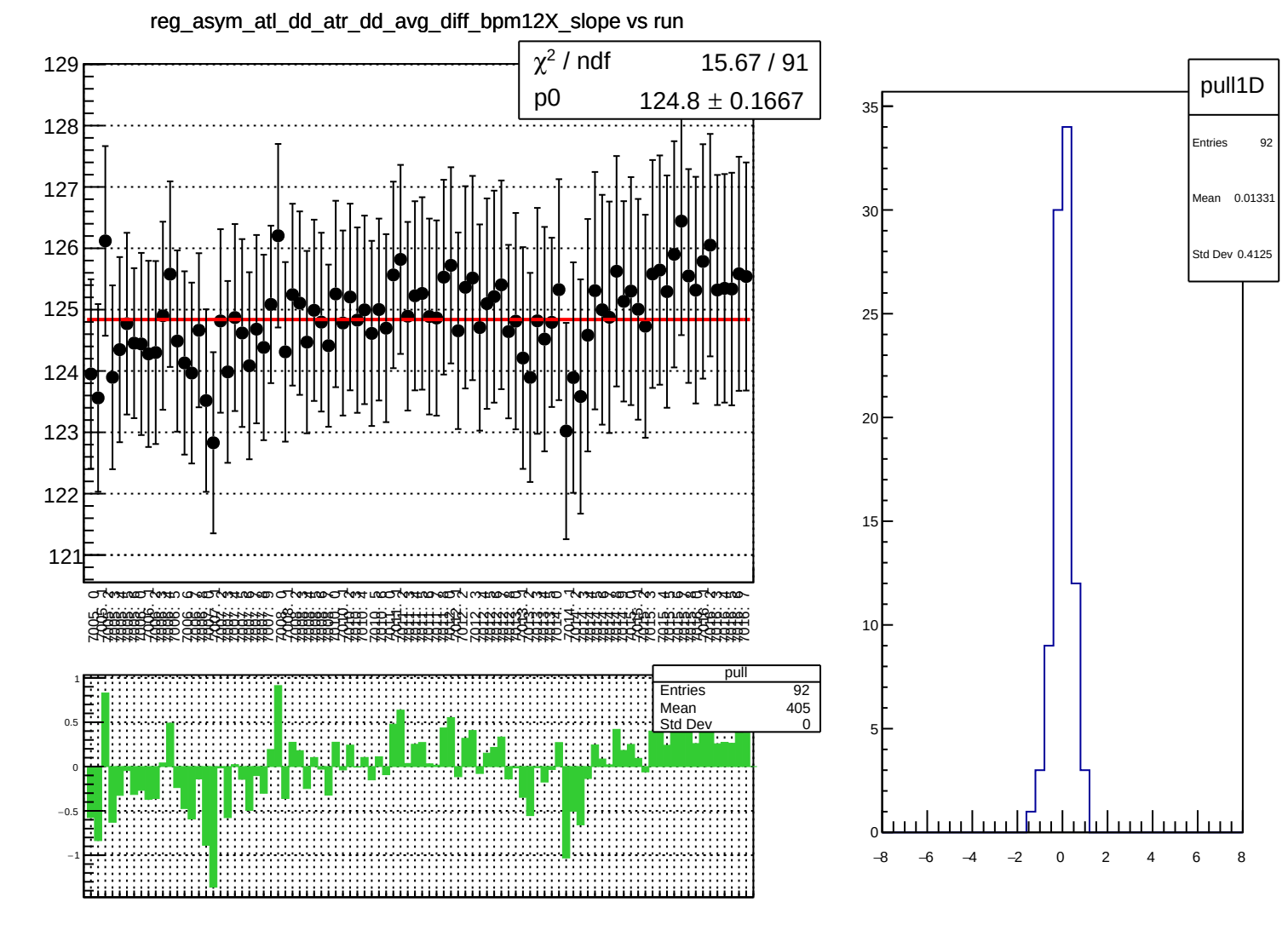

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.616 / 91
p0 14.56 ± 3.537
pull
Entries 92
Mean 797.6
Std Dev 0
pull1D
Entries 92
Mean −0.002617
Std Dev 0.306

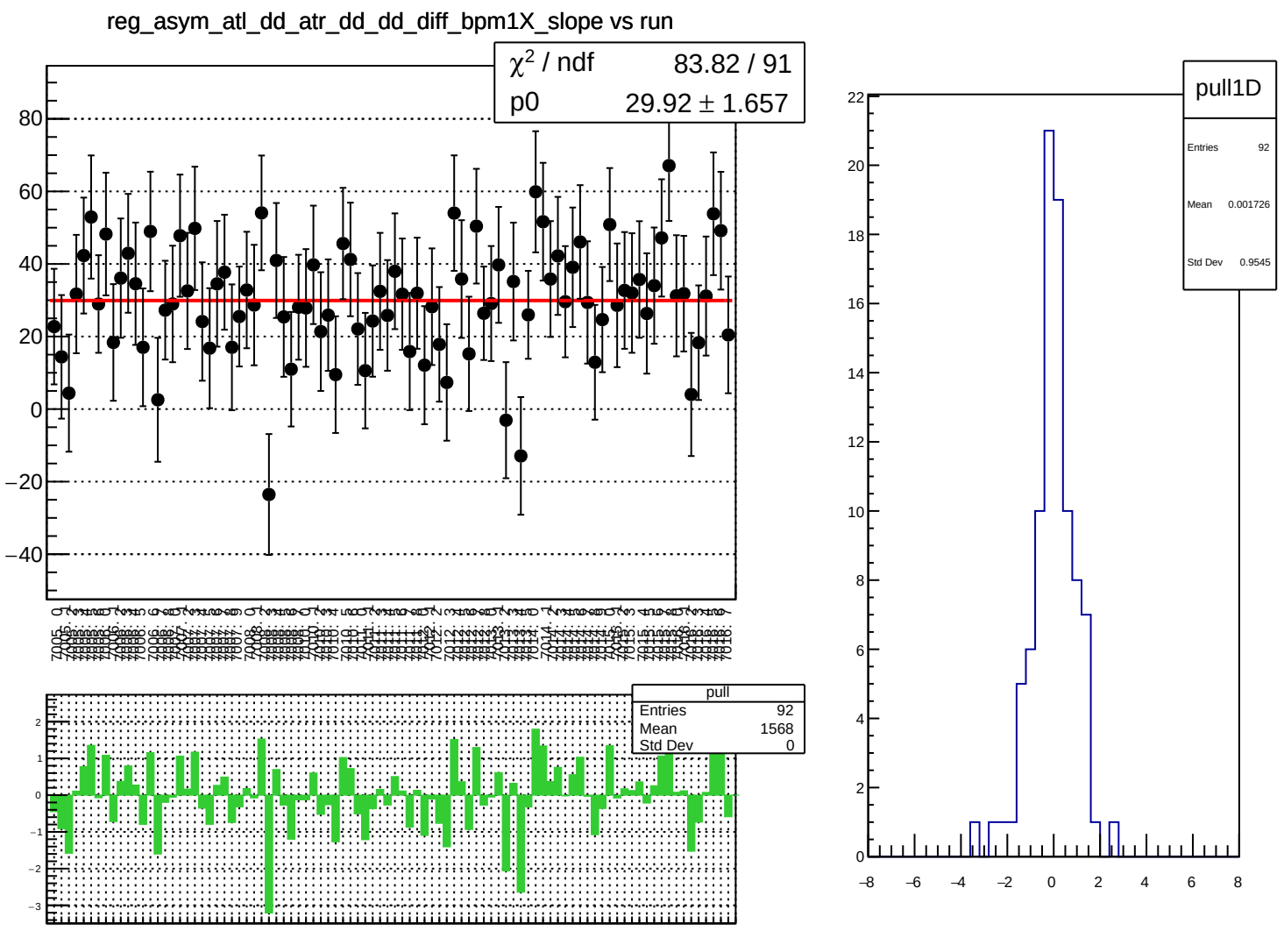

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.82 / 91
p0 −246.5 ± 4.829
−150
−200
−250
−300
−350
pull
Entries 92
Mean 284.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

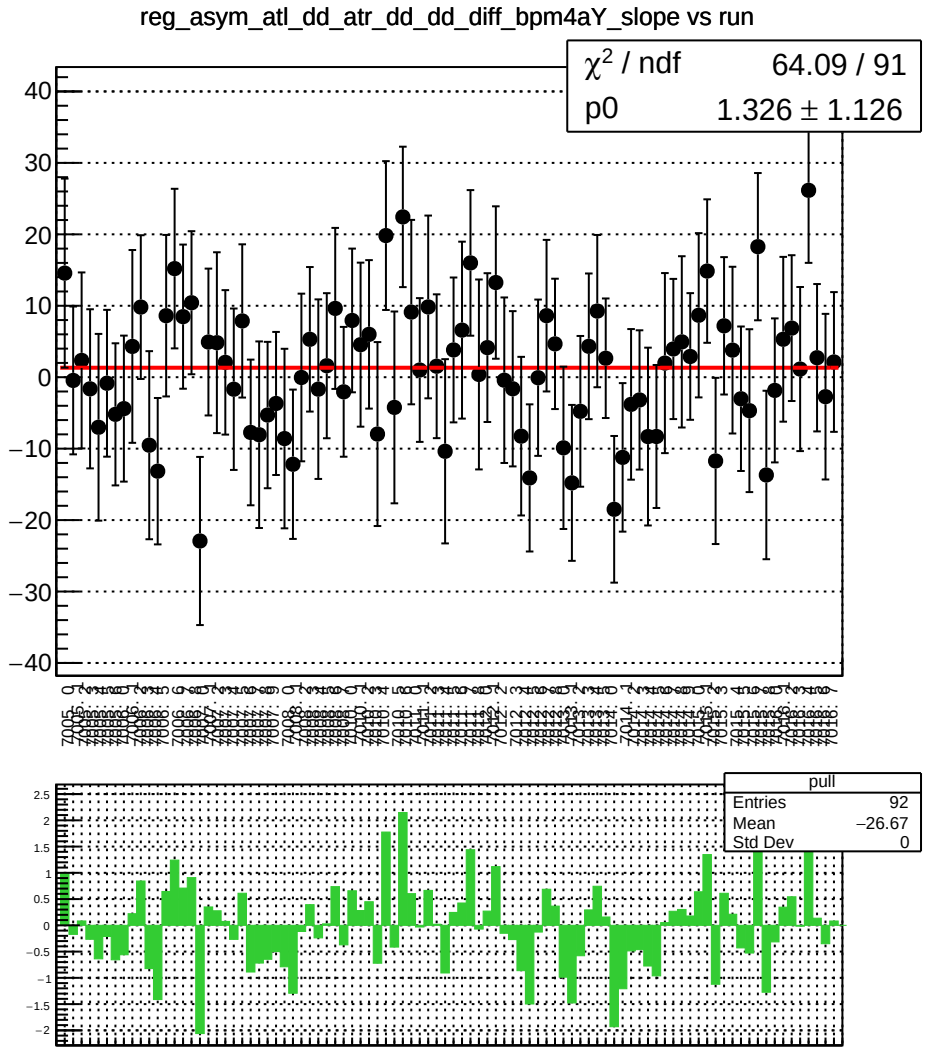

pull1D
Entries 92
Mean −0.003972
Std Dev 0.3733
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

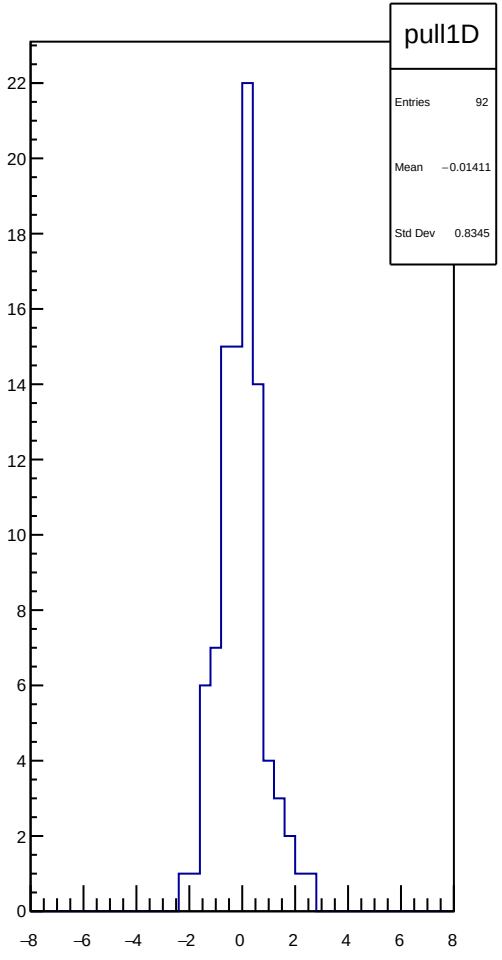

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.46 / 91
p0 −89.92 ± 3.706
pull
Entries 92
Mean 665.3
Std Dev 0

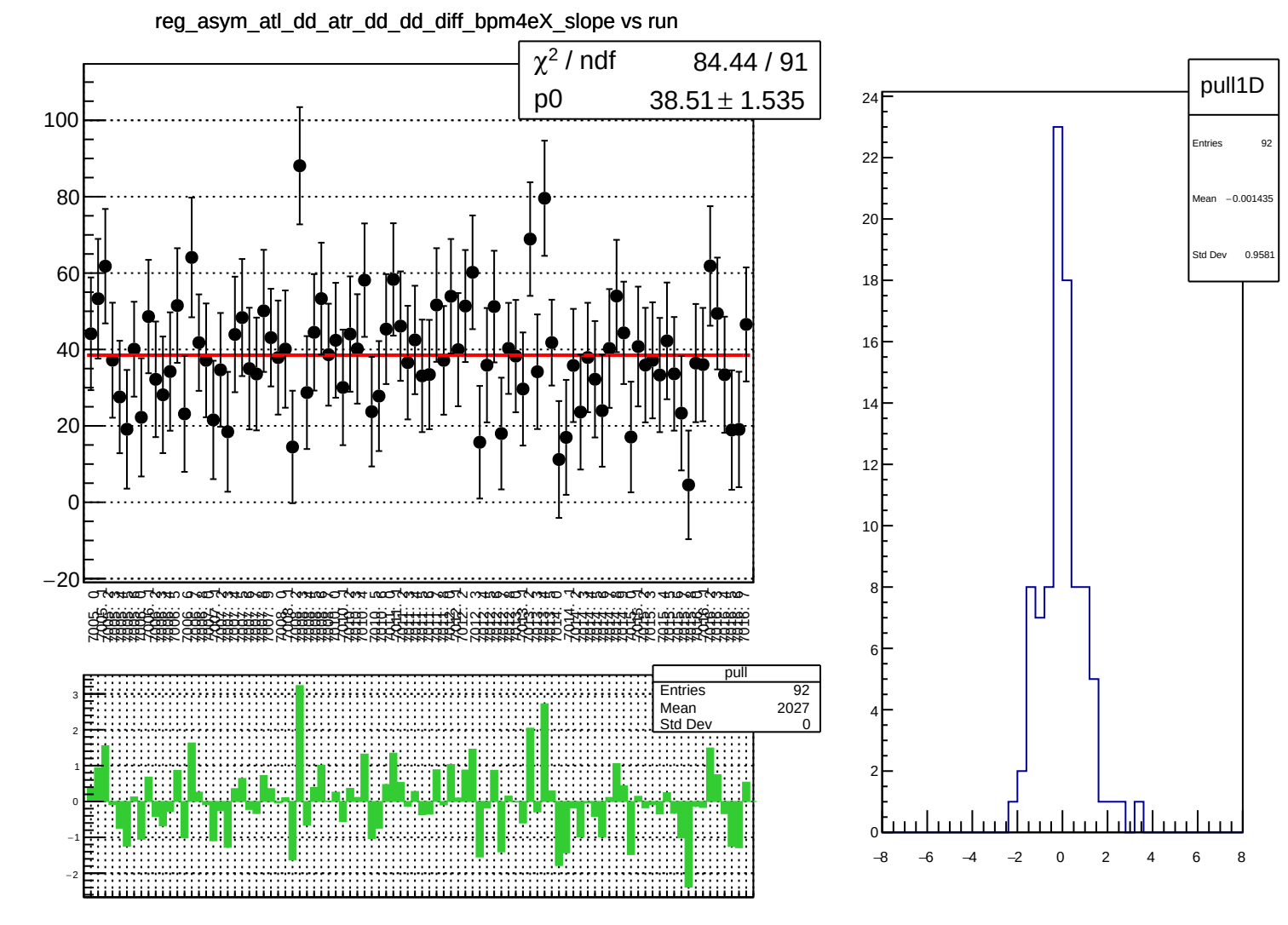

pull1D
Entries 92
Mean 0.006099
Std Dev 0.3371

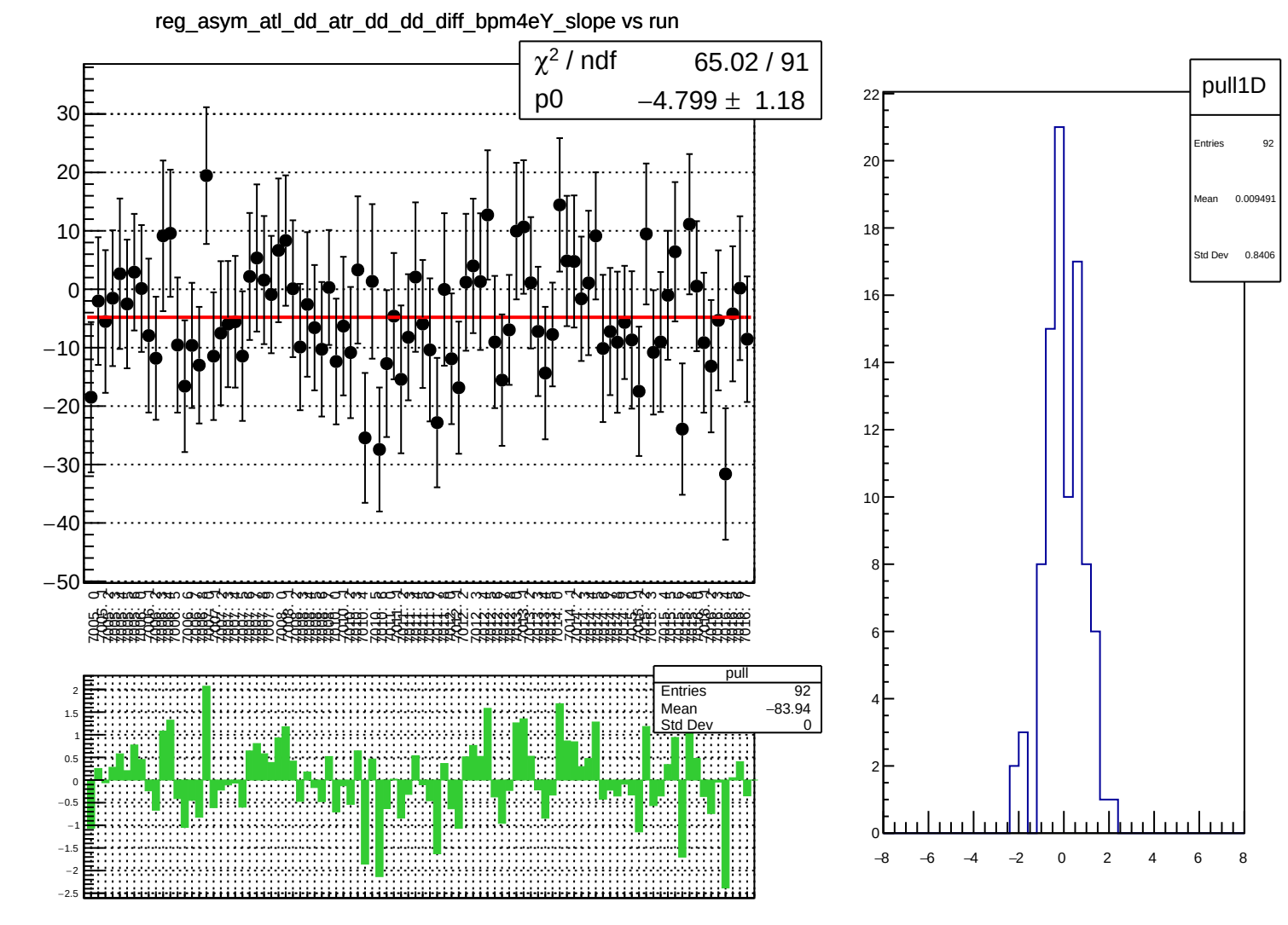

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 15.67 / 91
p0 124.8 ± 0.1667
pull
Entries 92
Mean 405
Std Dev 0
pull1D
Entries 92
Mean 0.01331
Std Dev 0.4125

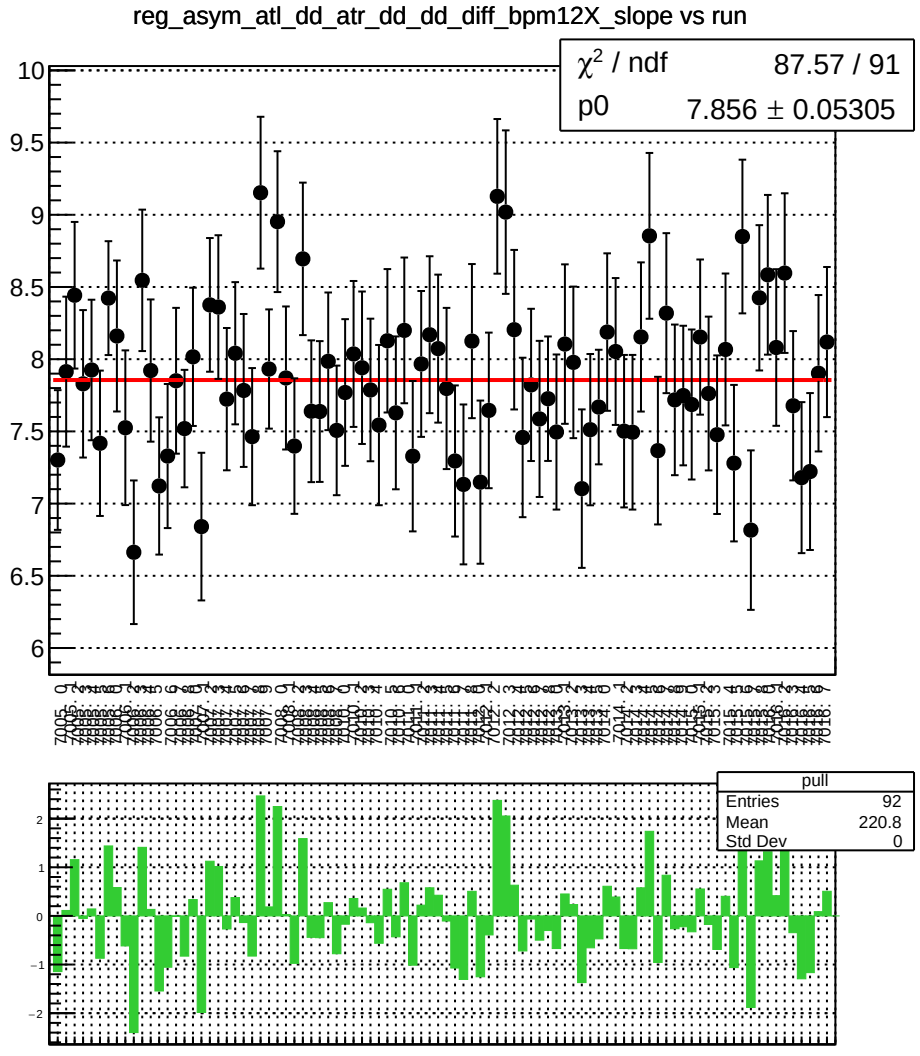

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 83.82 / 91
p0 29.92 ± 1.657
pull
Entries 92
Mean 1568
Std Dev 0
pull1D
Entries 92
Mean 0.001726
Std Dev 0.9545

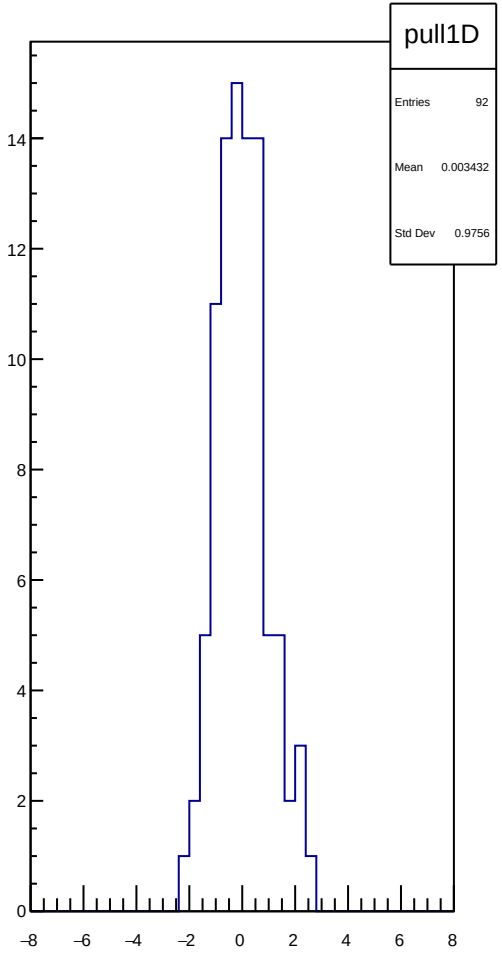

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.09 / 91
p0 1.326 ± 1.126
pull
Entries 92
Mean −26.67
Std Dev 0

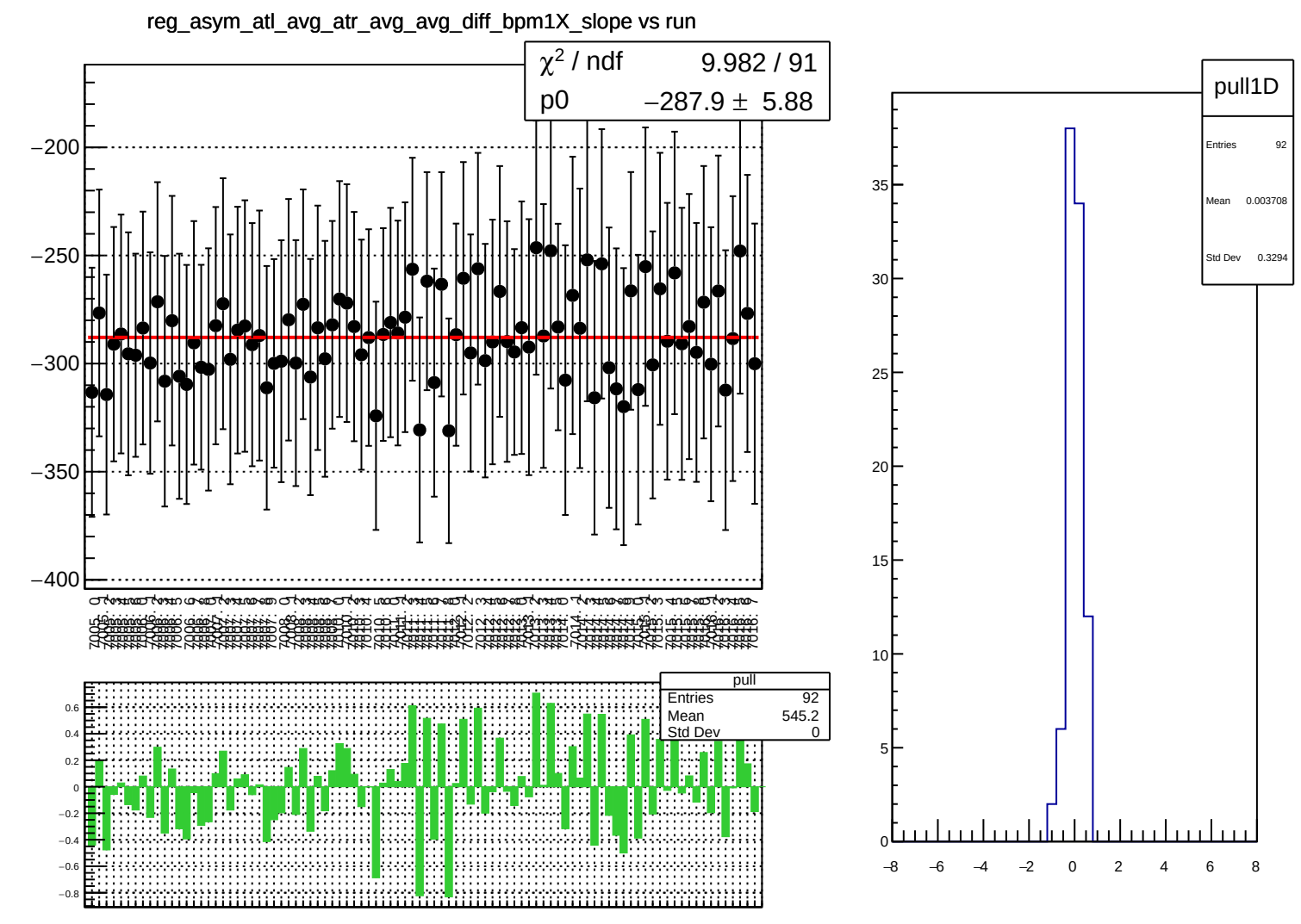

pull1D
Entries 92
Mean −0.01411
Std Dev 0.8345

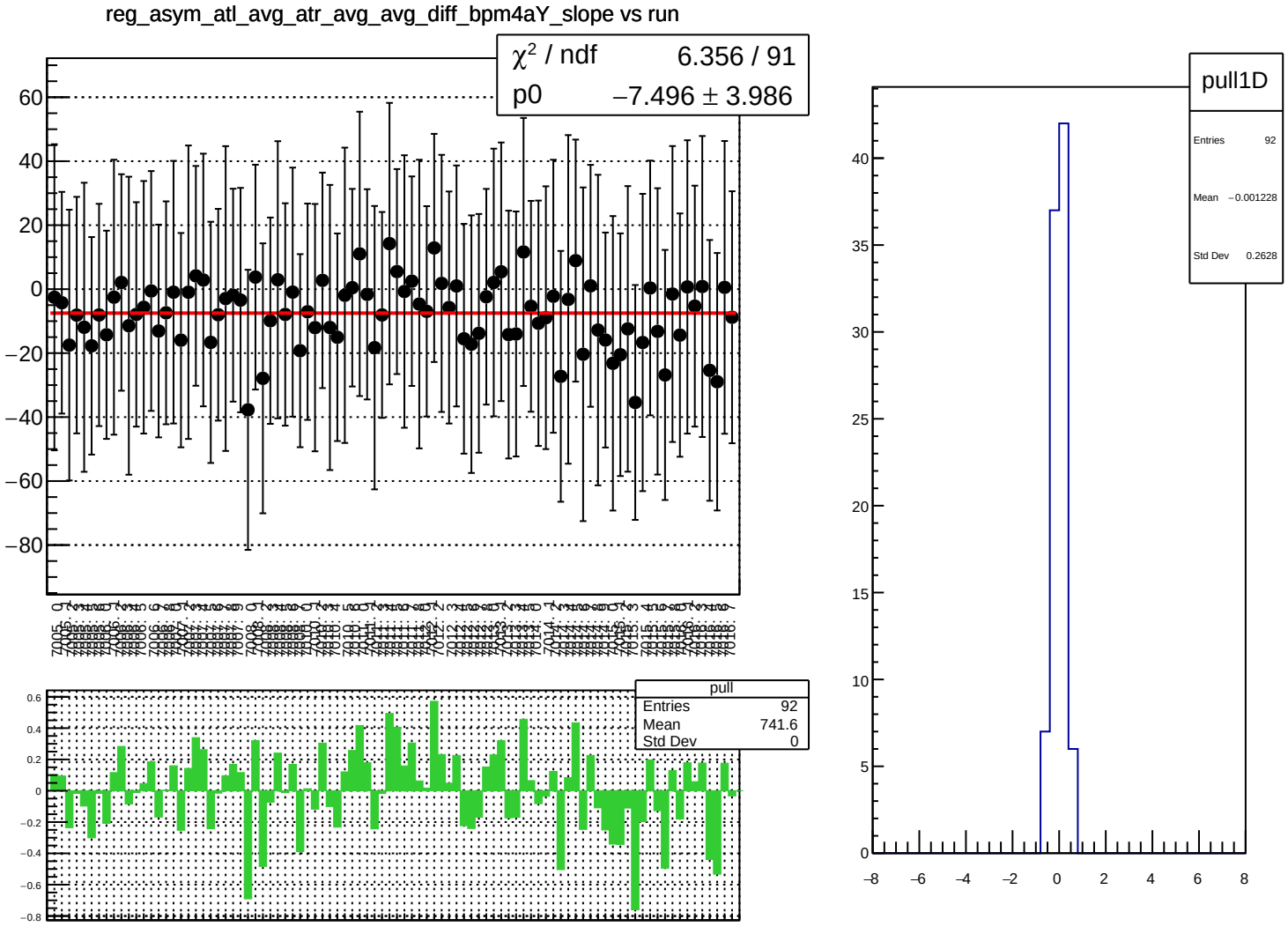

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.44 / 91
p0 38.51 ± 1.535
pull
Entries 92
Mean 2027
Std Dev 0
pull1D
Entries 92
Mean −0.001435
Std Dev 0.9581

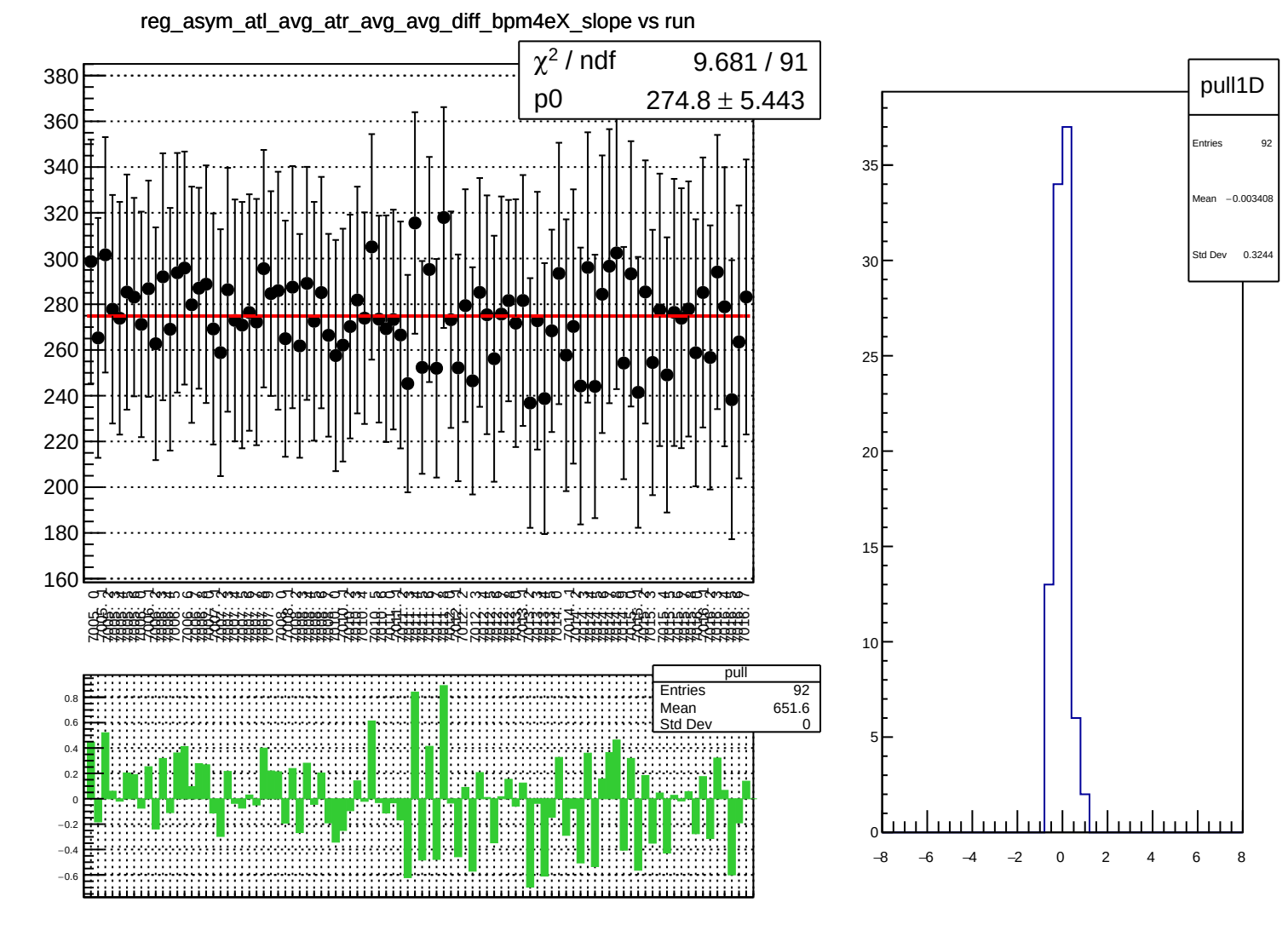

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.02 / 91
p0 −4.799 ± 1.18
pull
Entries 92
Mean −83.94
Std Dev 0
pull1D
Entries 92
Mean 0.009491
Std Dev 0.8406

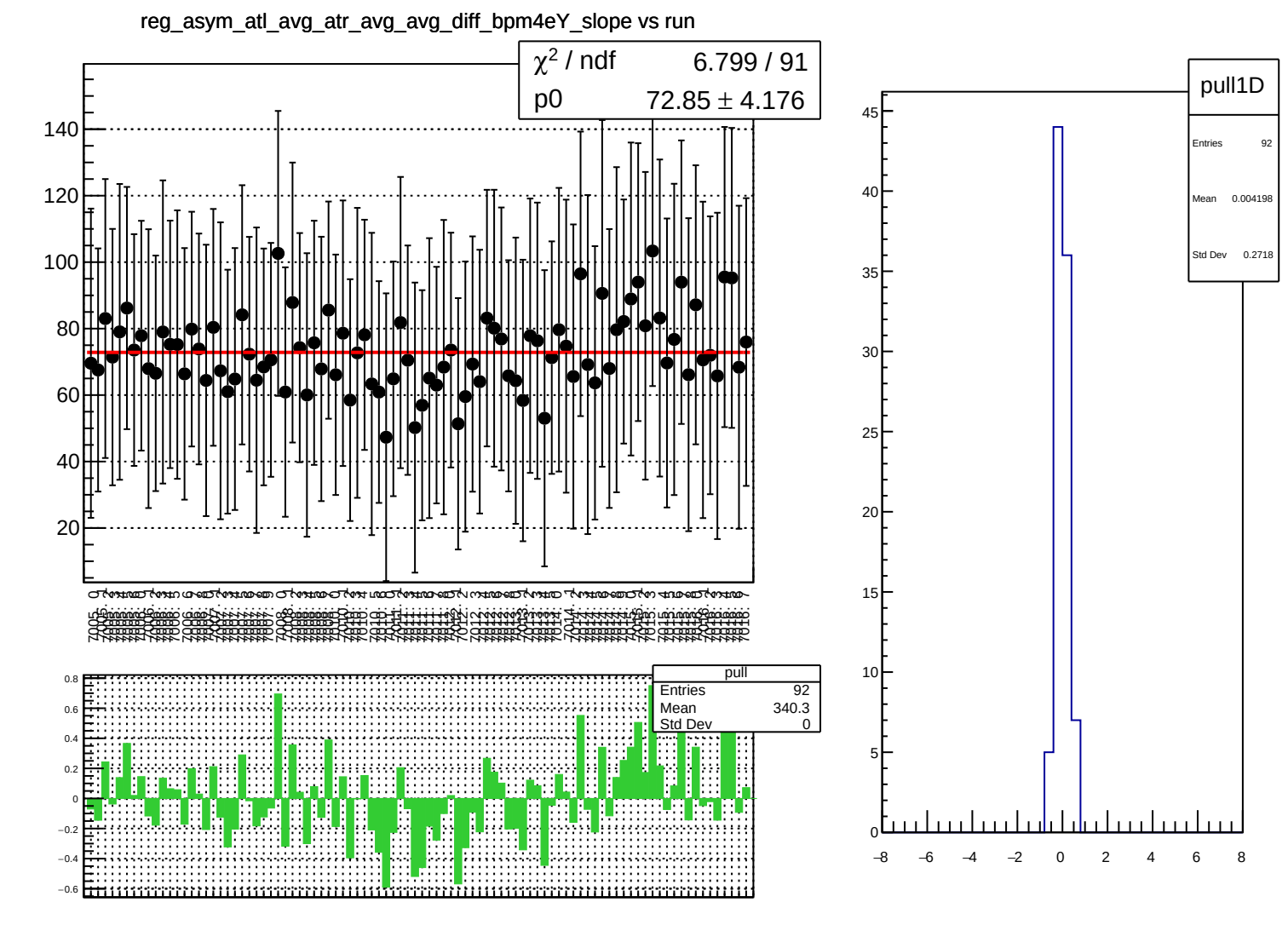

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 87.57 / 91
p0 7.856 ± 0.05305
pull
Entries 92
Mean 220.8
Std Dev 0

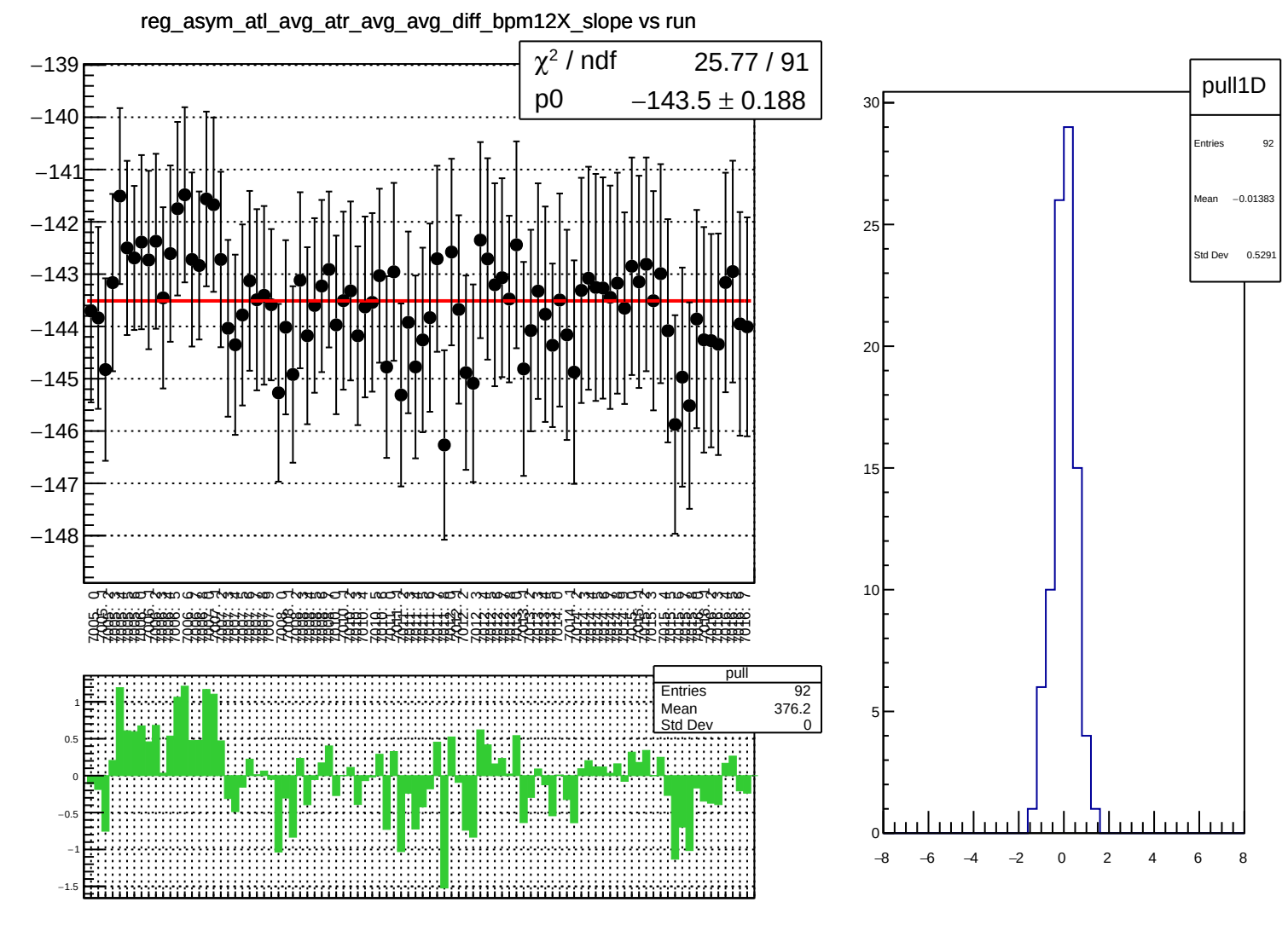

pull1D
Entries 92
Mean 0.003432
Std Dev 0.9756

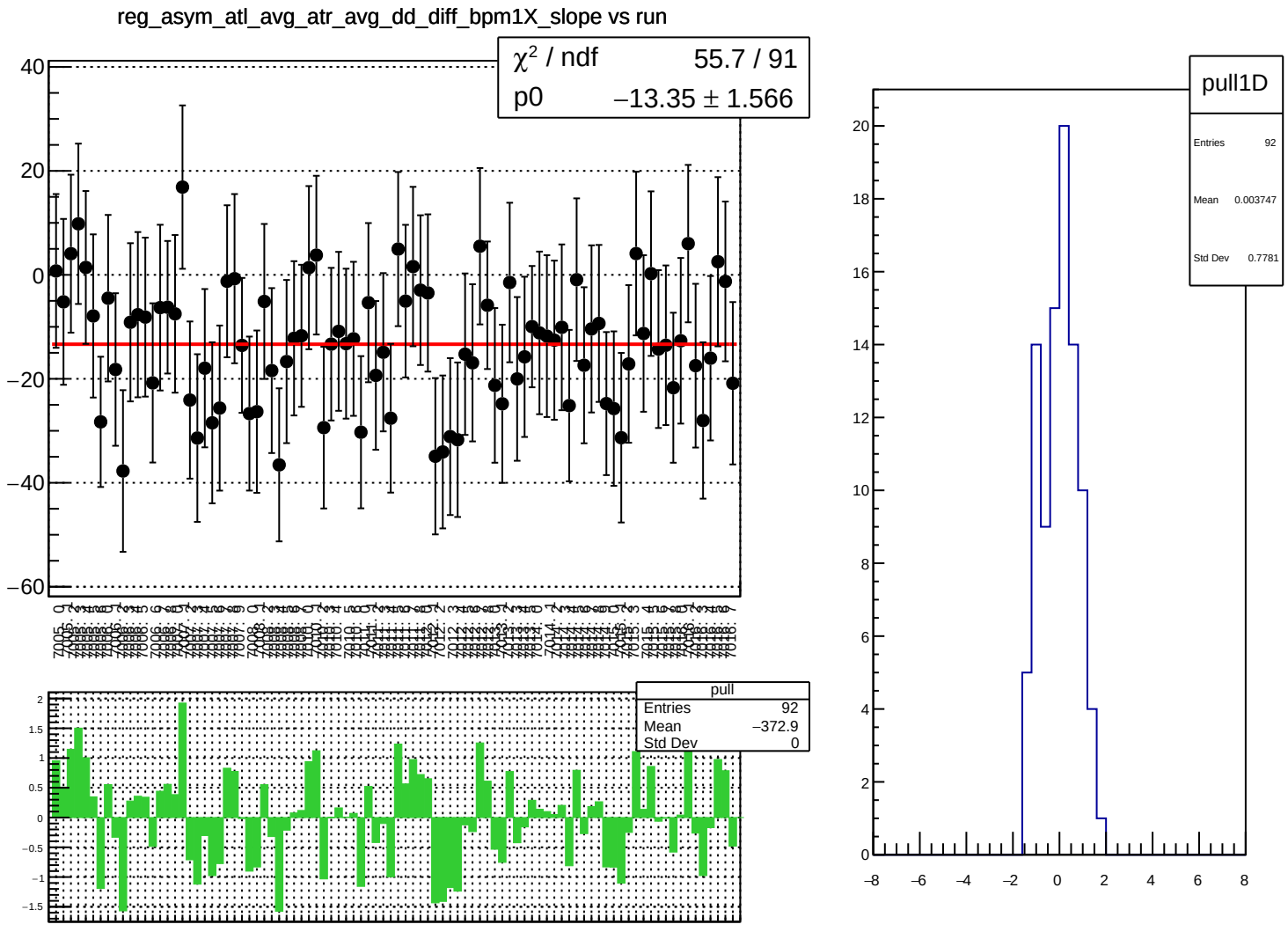

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 9.982 / 91
p0 −287.9 ± 5.88
−200
−250
−300
−350
−400
pull
Entries 92
Mean 545.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean 0.003708
Std Dev 0.3294
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

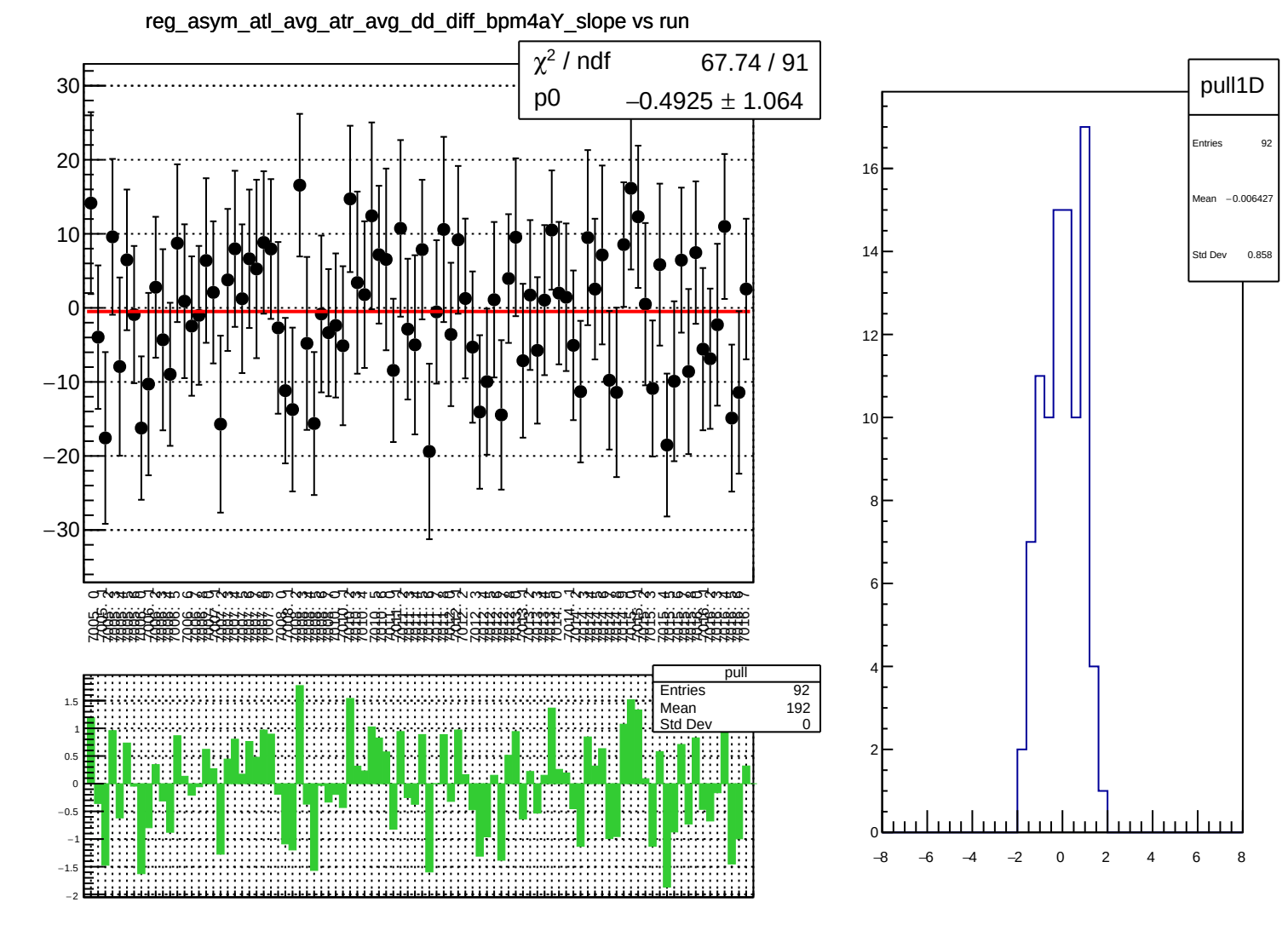

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.356 / 91
p0 −7.496 ± 3.986
pull
Entries 92
Mean 741.6
Std Dev 0
pull1D
Entries 92
Mean −0.001228
Std Dev 0.2628

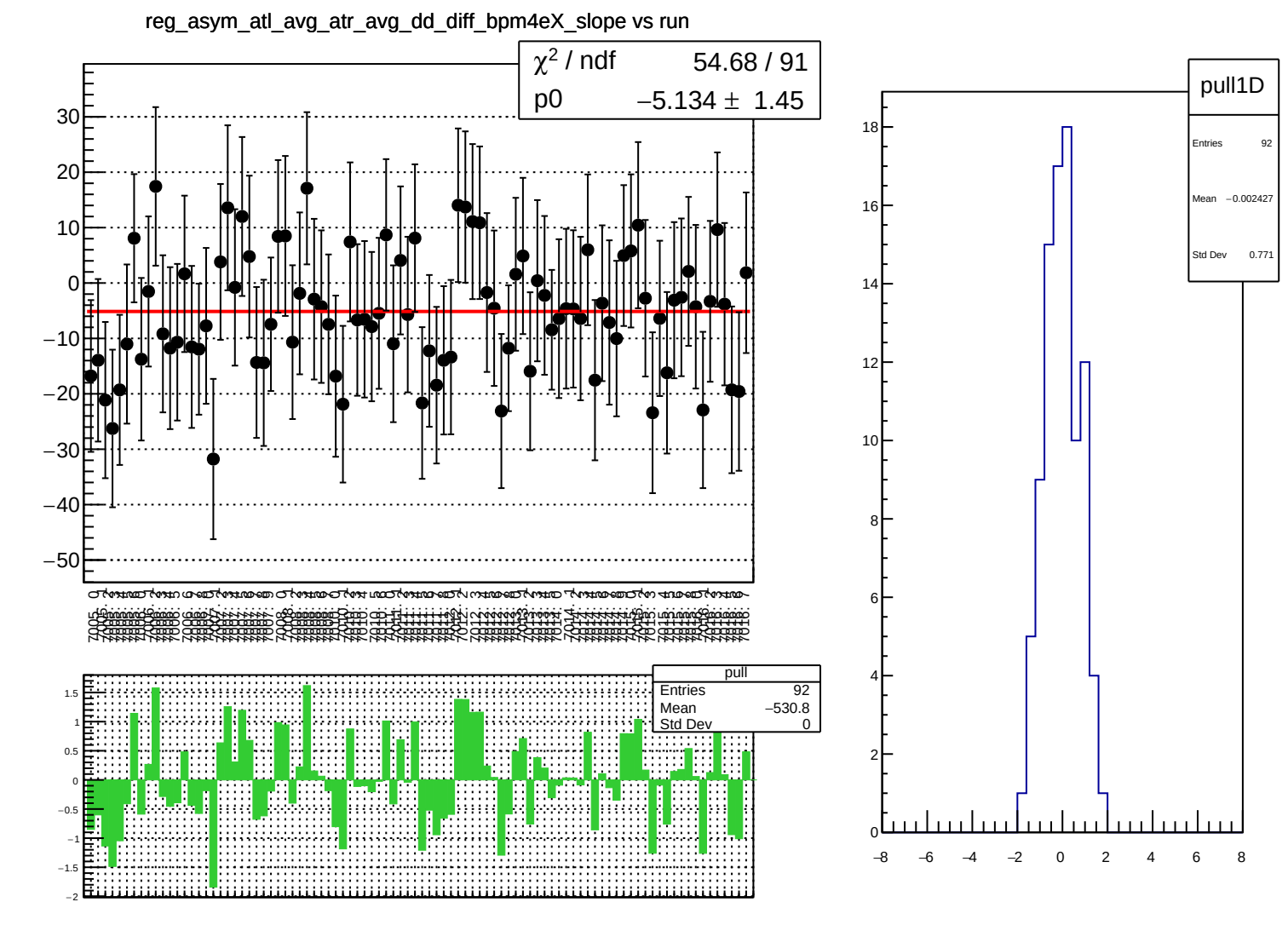

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.681 / 91
p0 274.8 ± 5.443
pull
Entries 92
Mean 651.6
Std Dev 0
pull1D
Entries 92
Mean −0.003408
Std Dev 0.3244

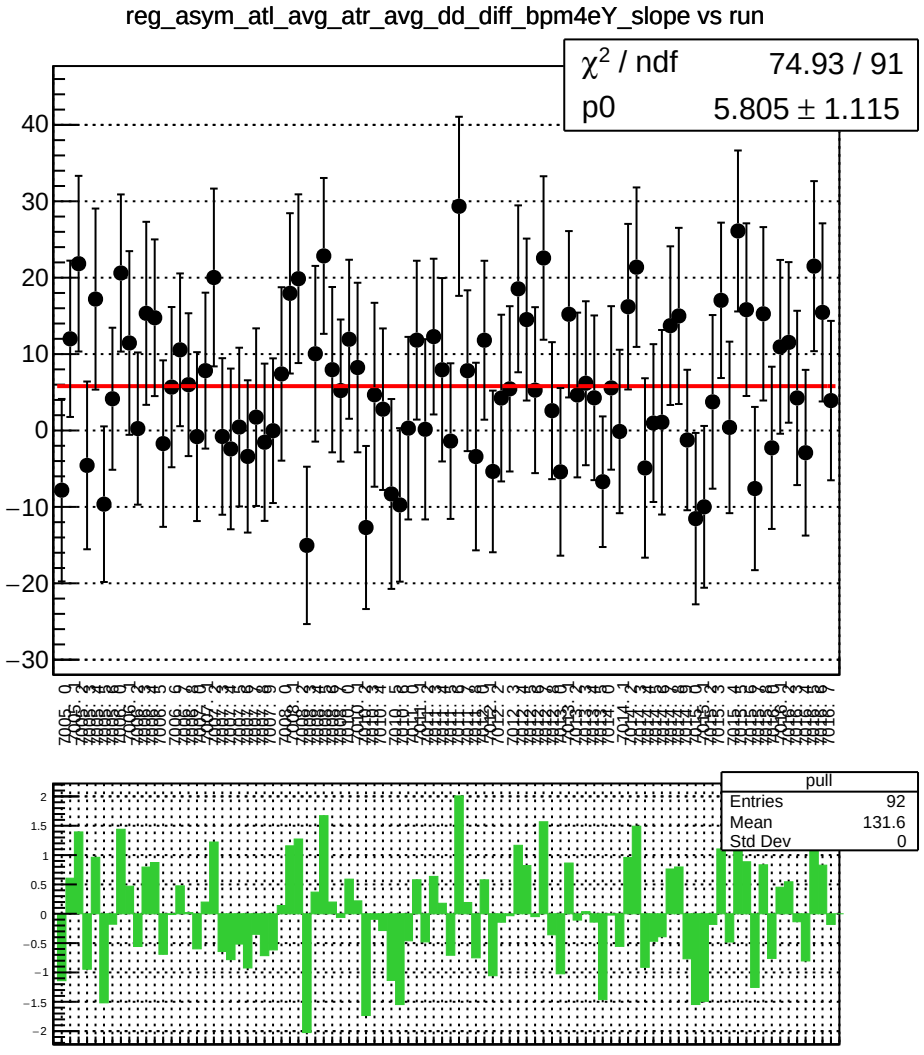

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.799 / 91
p0 72.85 ± 4.176
pull
Entries 92
Mean 340.3
Std Dev 0
pull1D
Entries 92
Mean 0.004198
Std Dev 0.2718

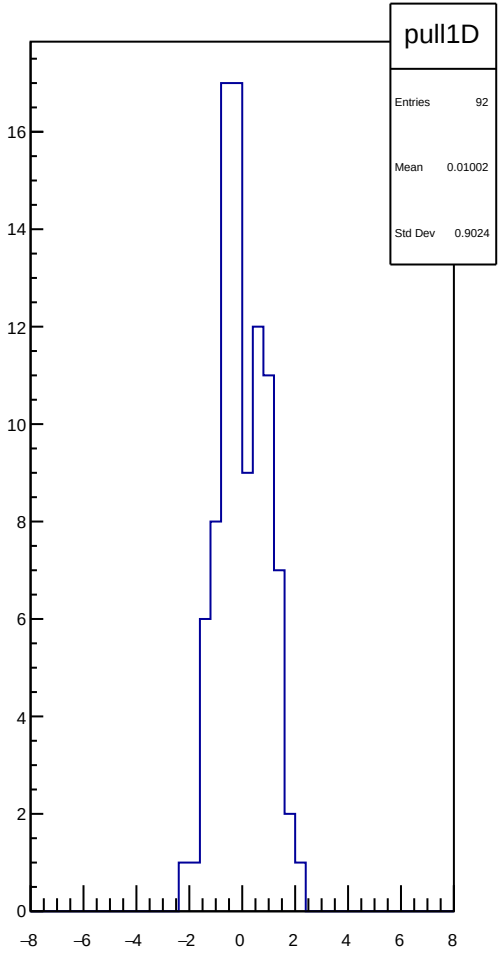

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 25.77 / 91
p0 −143.5 ± 0.188
pull
Entries 92
Mean 376.2
Std Dev 0
pull1D
Entries 92
Mean −0.01383
Std Dev 0.5291

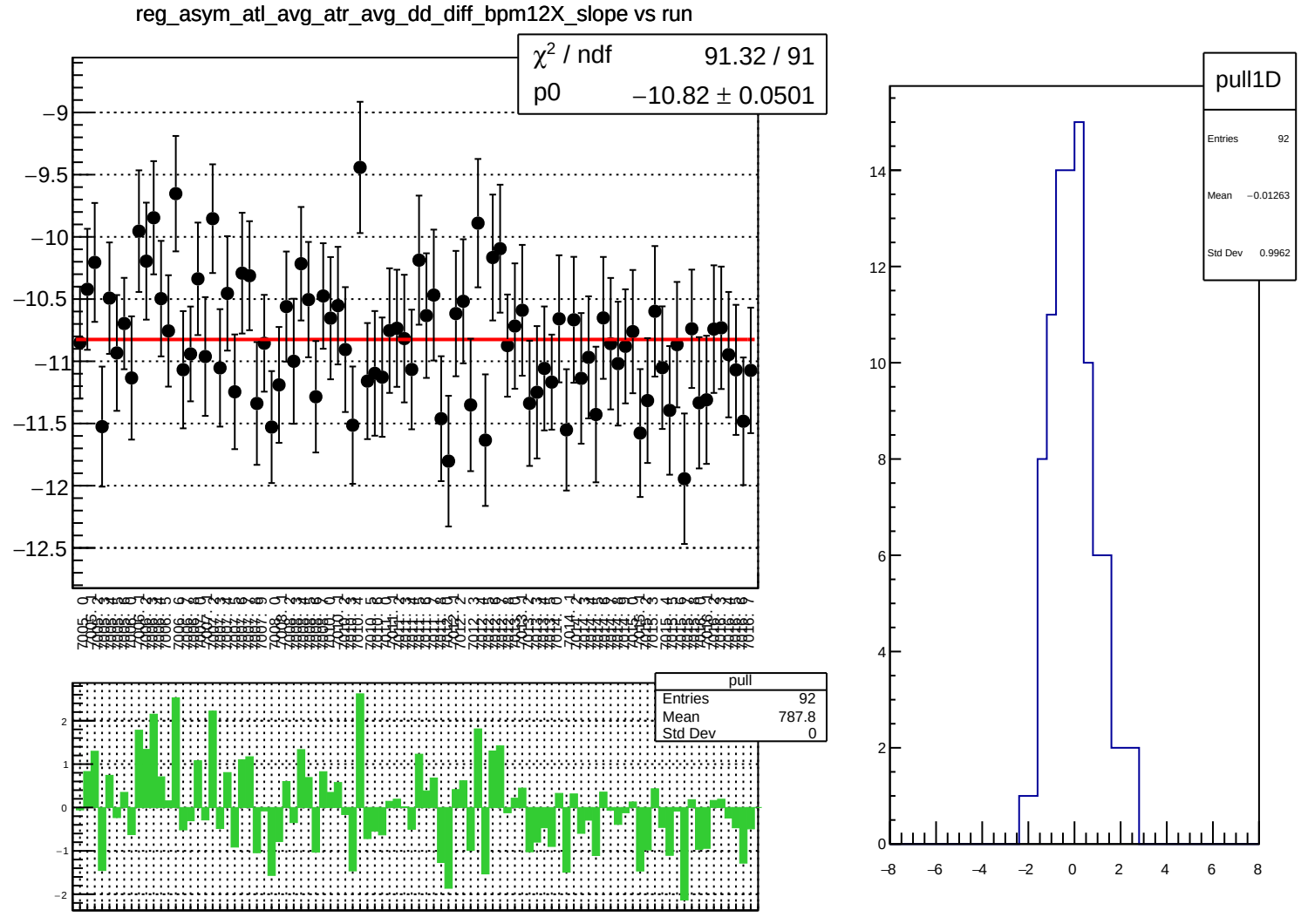

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 55.7 / 91
p0 −13.35 ± 1.566
pull
Entries 92
Mean −372.9
Std Dev 0
pull1D
Entries 92
Mean 0.003747
Std Dev 0.7781

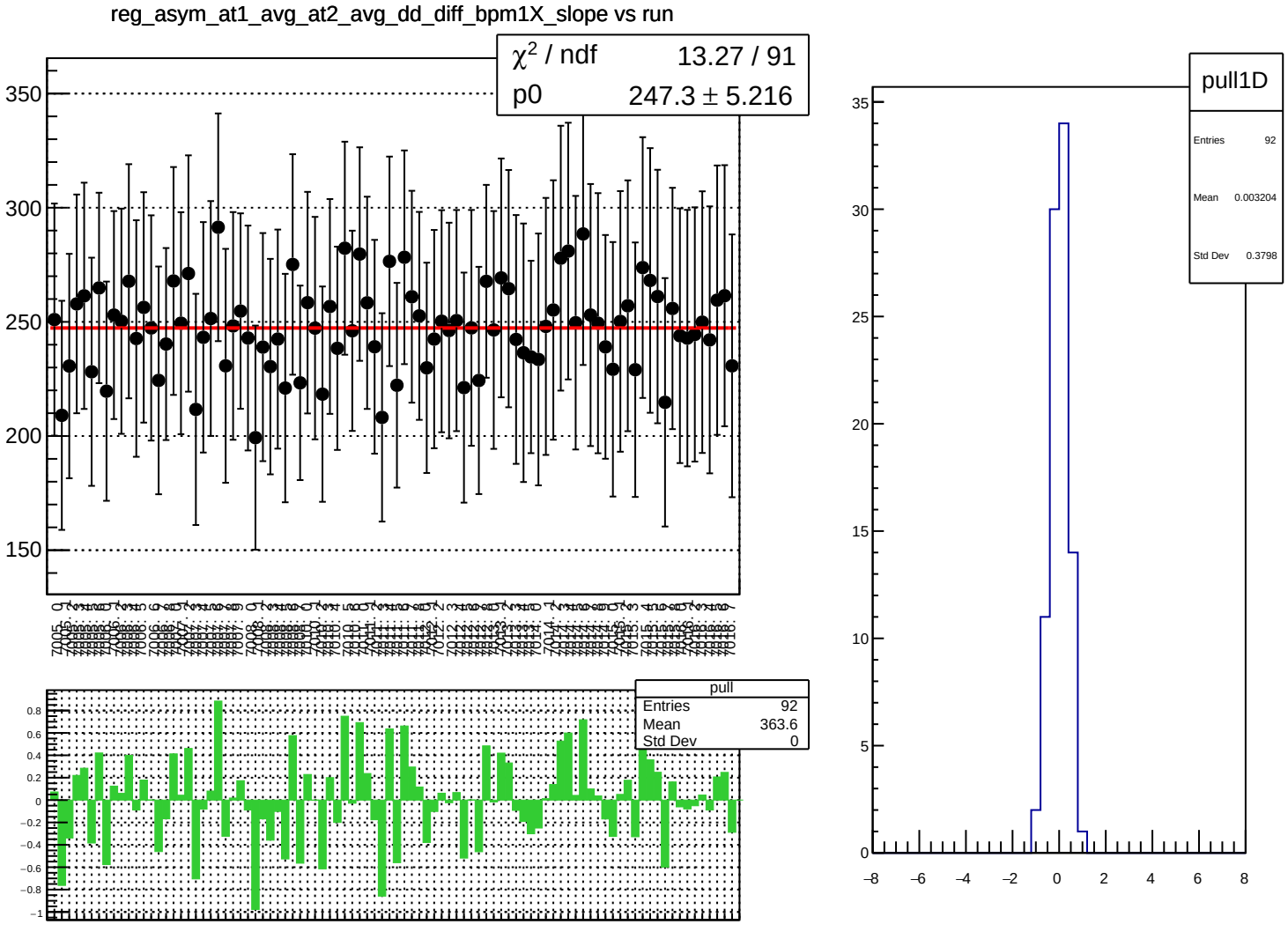

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.74 / 91
p0 −0.4925 ± 1.064
pull
Entries 92
Mean 192
Std Dev 0
pull1D
Entries 92
Mean −0.006427
Std Dev 0.858

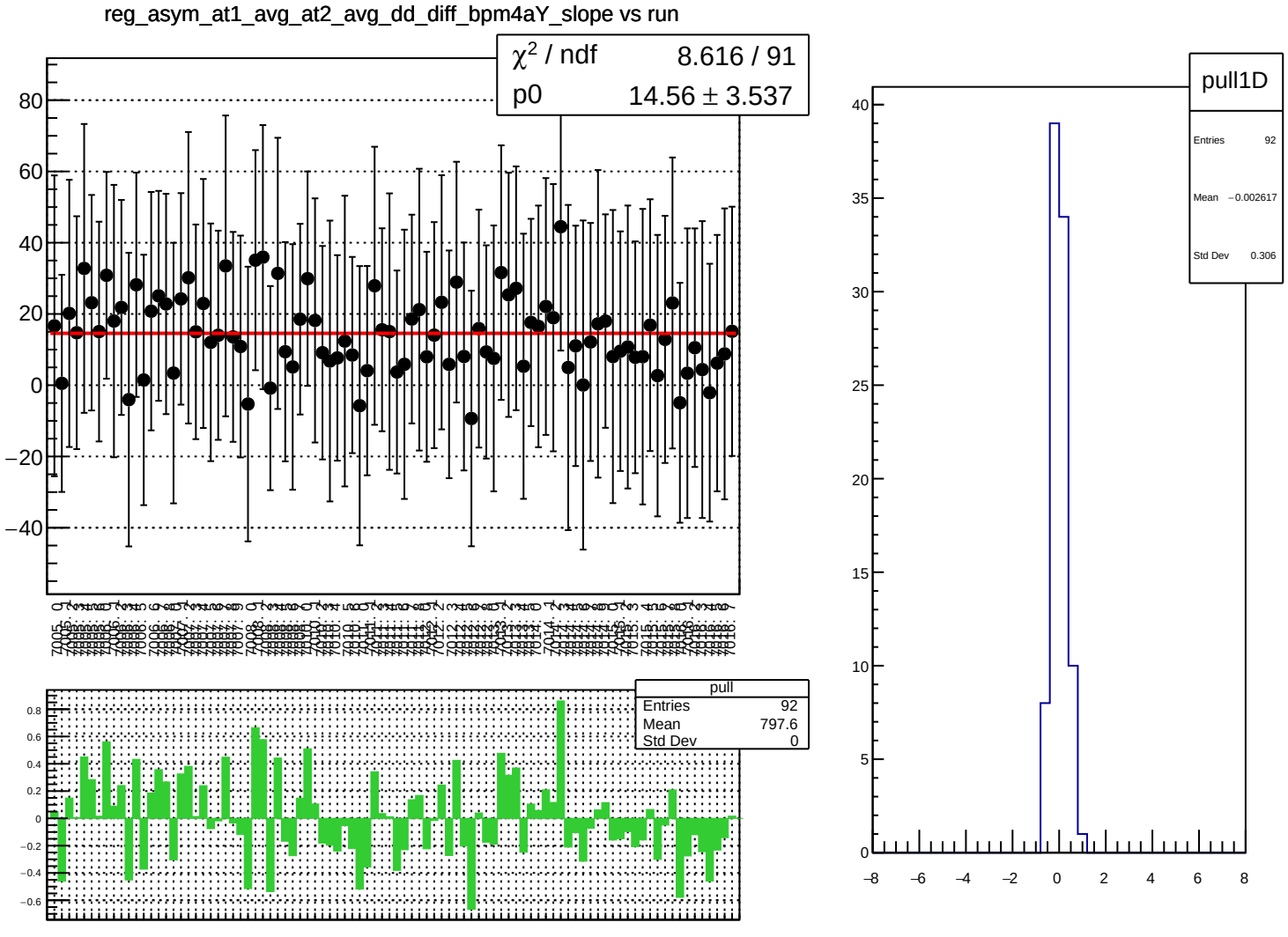

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.68 / 91
p0 −5.134 ± 1.45
pull
Entries 92
Mean −530.8
Std Dev 0
pull1D
Entries 92
Mean −0.002427
Std Dev 0.771

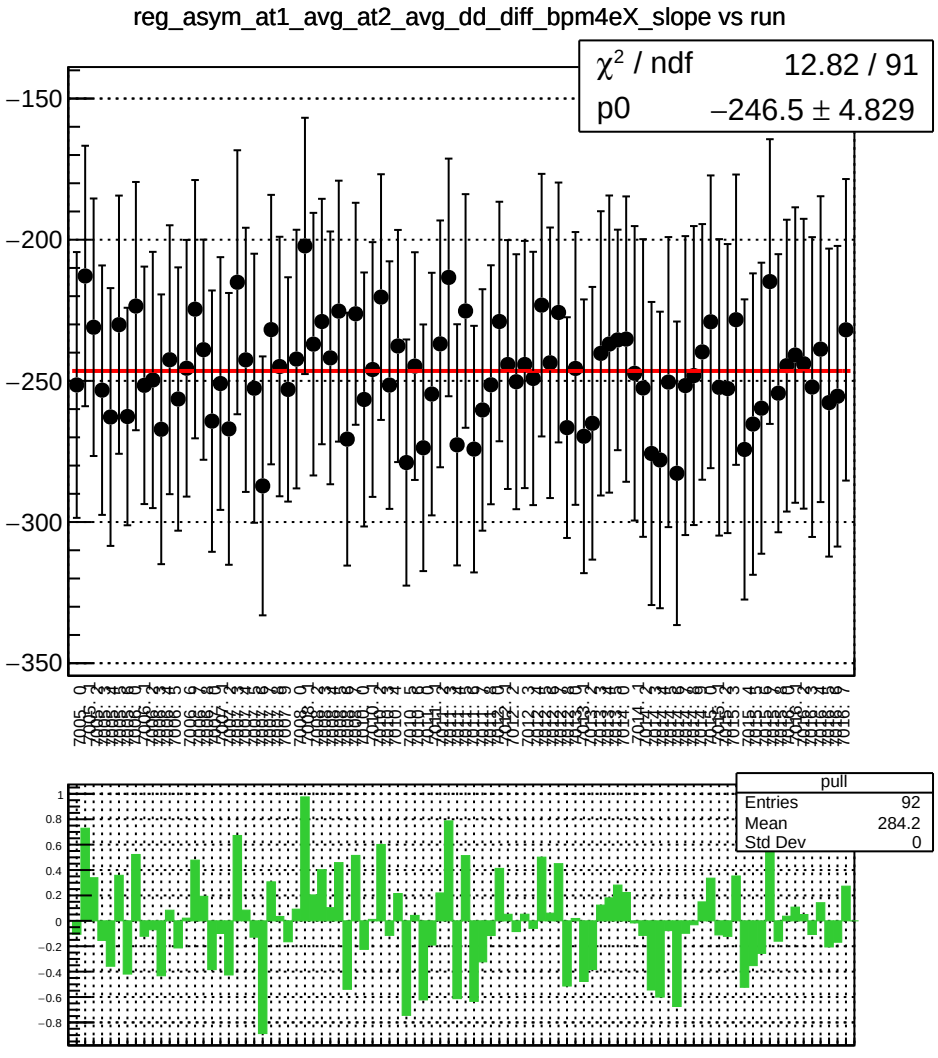

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.93 / 91
p0 5.805 ± 1.115
pull
Entries 92
Mean 131.6
Std Dev 0

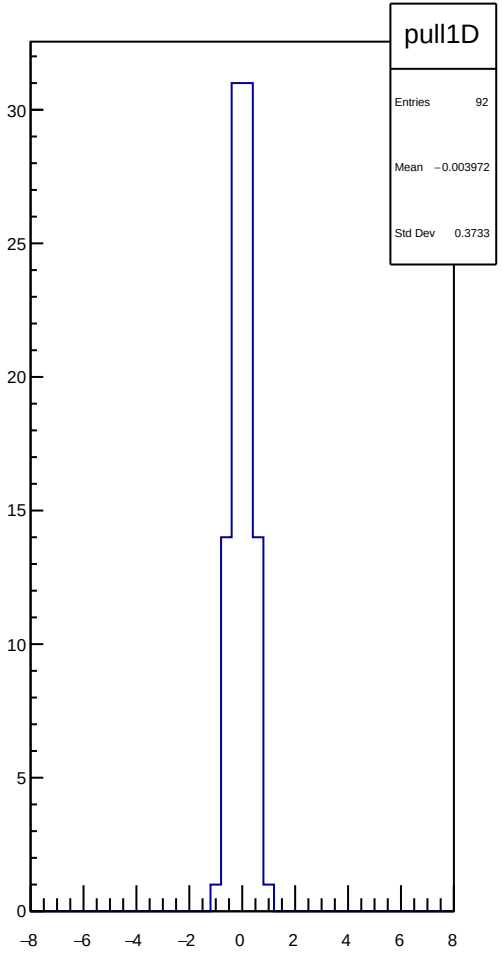

pull1D
Entries 92
Mean 0.01002
Std Dev 0.9024

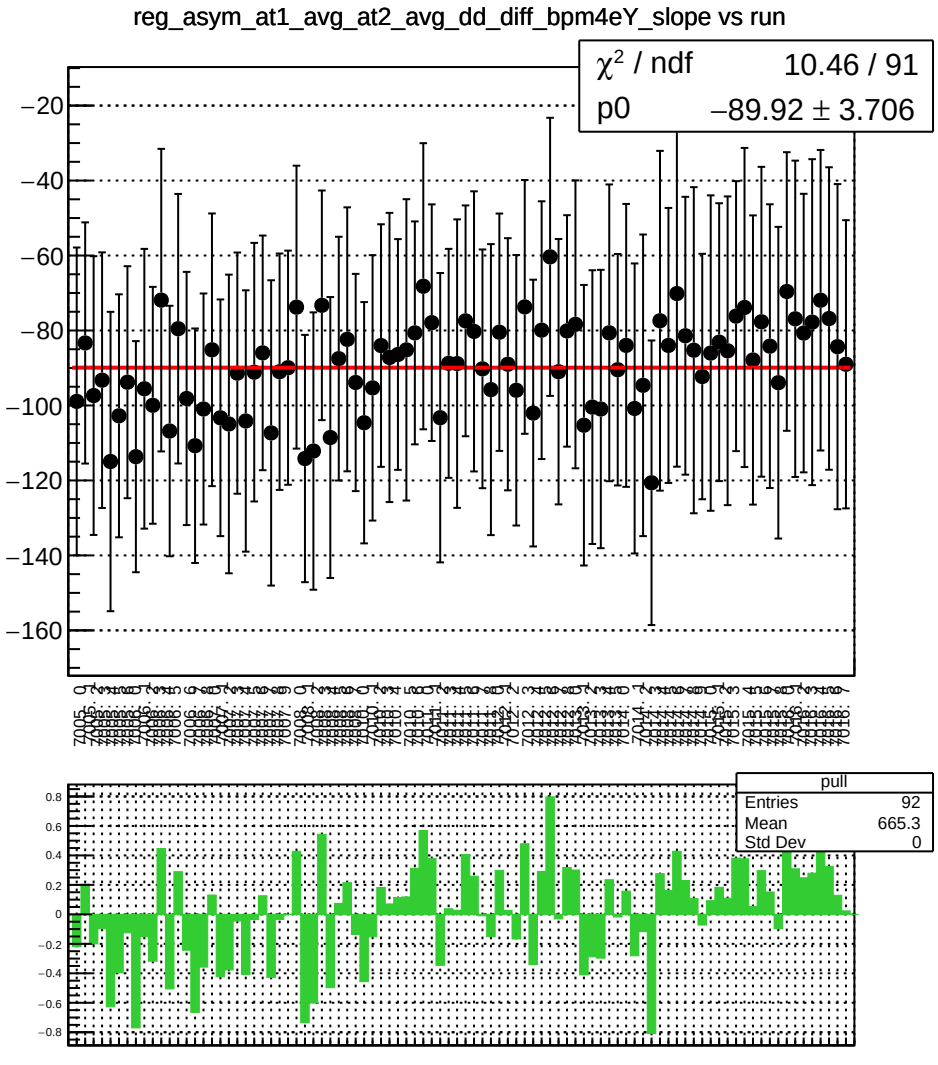

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 91.32 / 91
p0 −10.82 ± 0.0501
pull
Entries 92
Mean 787.8
Std Dev 0
pull1D
Entries 92
Mean −0.01263
Std Dev 0.9962

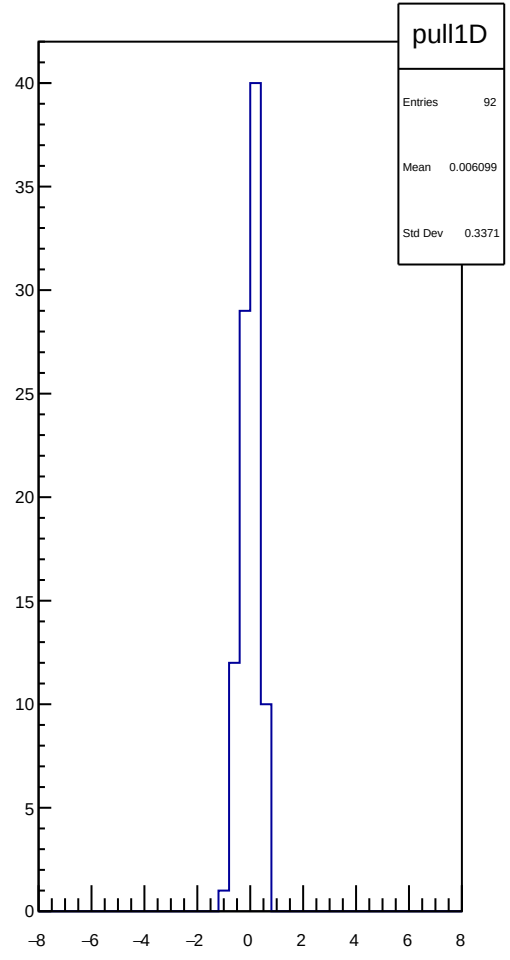

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 13.27 / 91
p0 247.3 ± 5.216
350
300
250
200
150
pull
Entries 92
Mean 363.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean 0.003204
Std Dev 0.3798
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

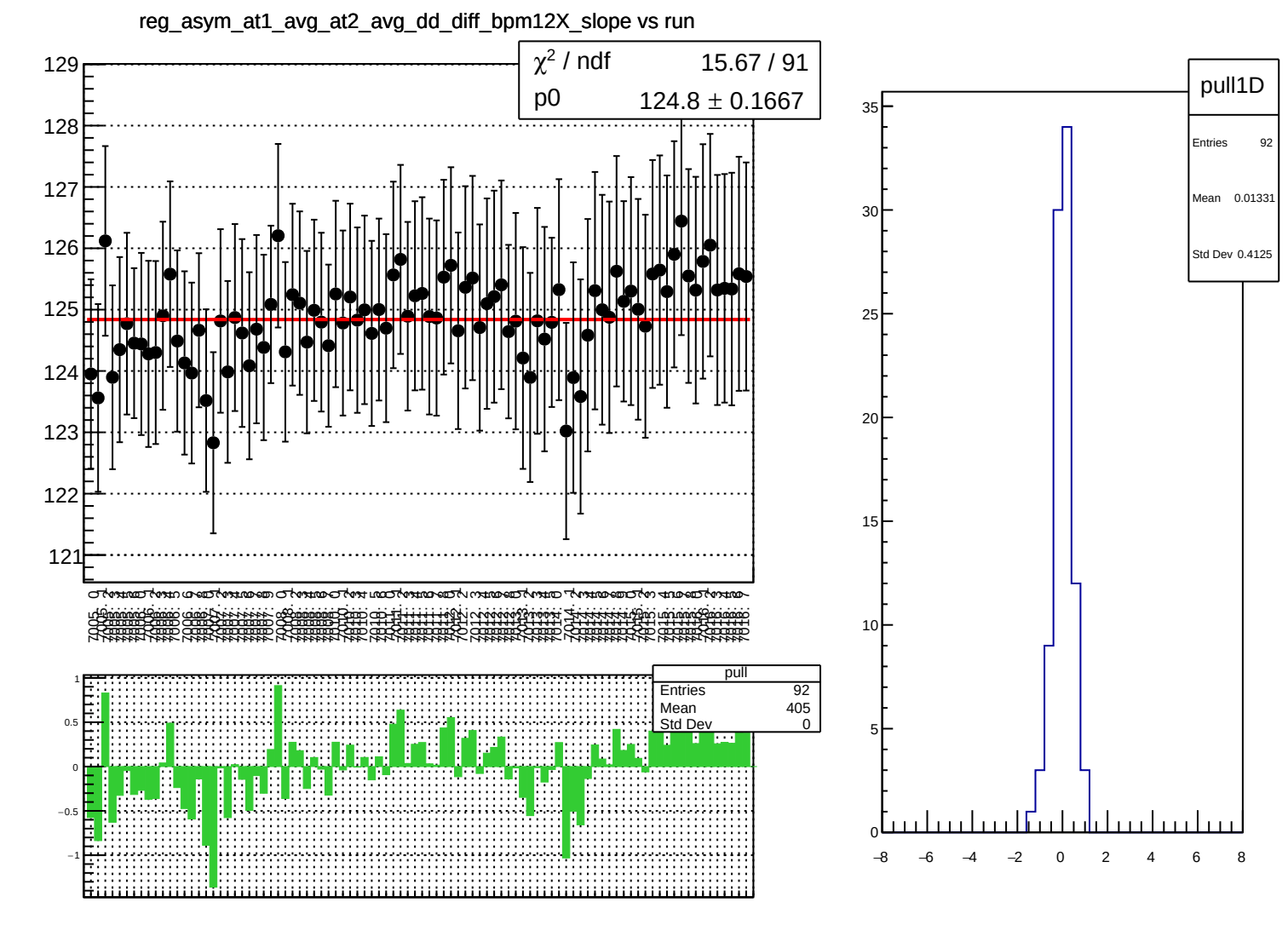

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.616 / 91
p0 14.56 ± 3.537
pull
Entries 92
Mean 797.6
Std Dev 0
pull1D
Entries 92
Mean −0.002617
Std Dev 0.306

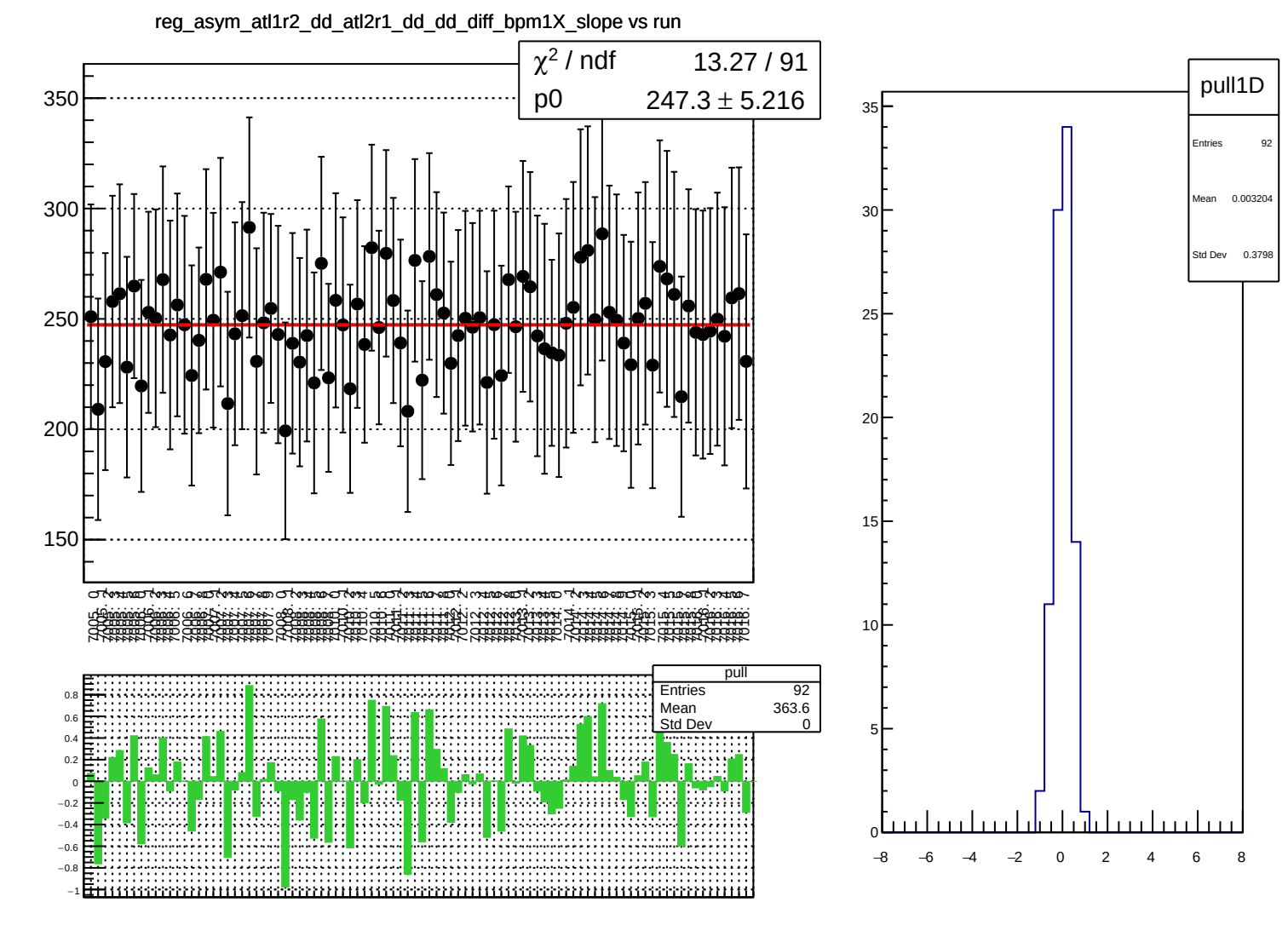

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.82 / 91
p0 −246.5 ± 4.829
−150
−200
−250
−300
−350
pull
Entries 92
Mean 284.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

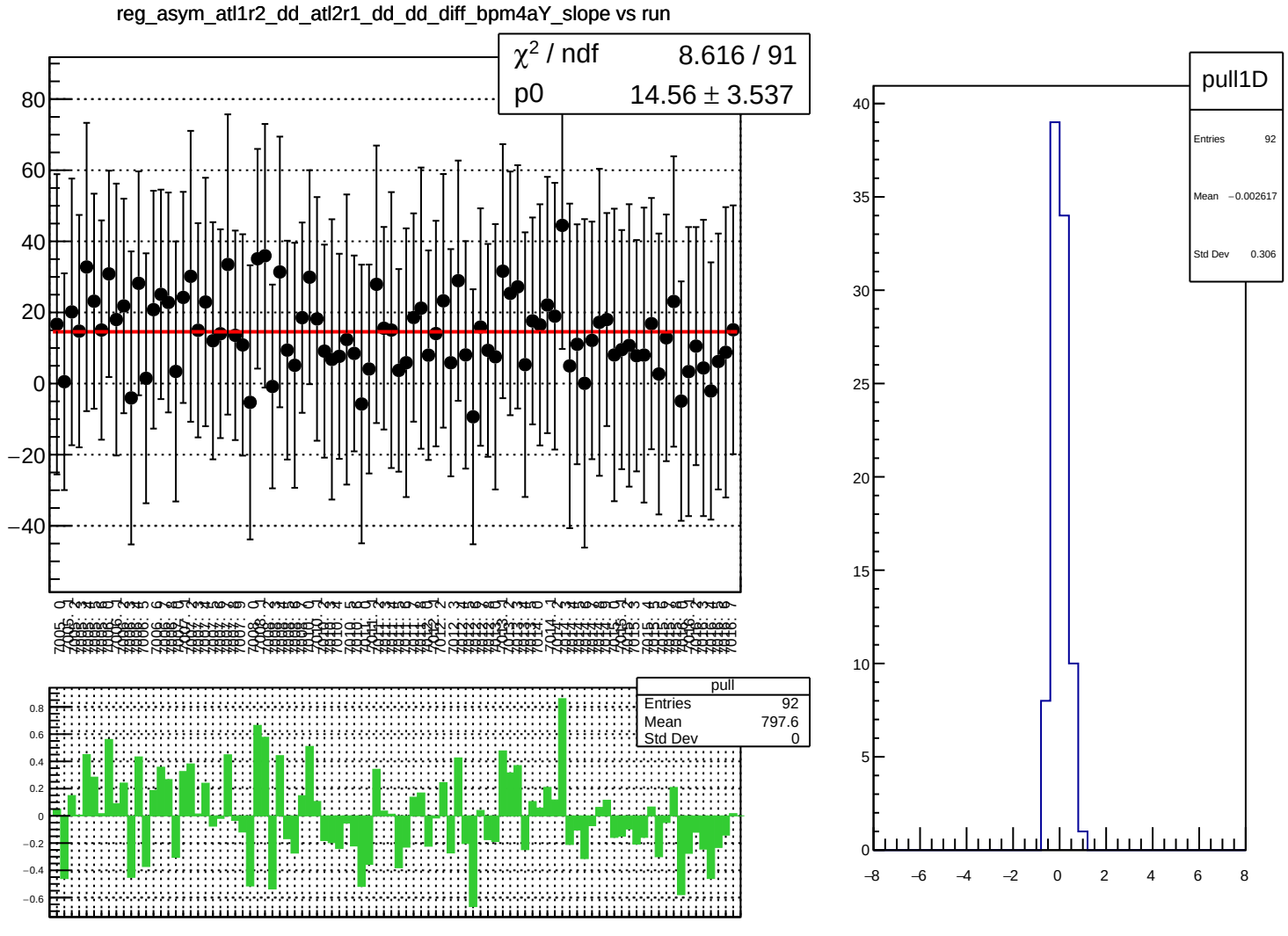

pull1D
Entries 92
Mean −0.003972
Std Dev 0.3733
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

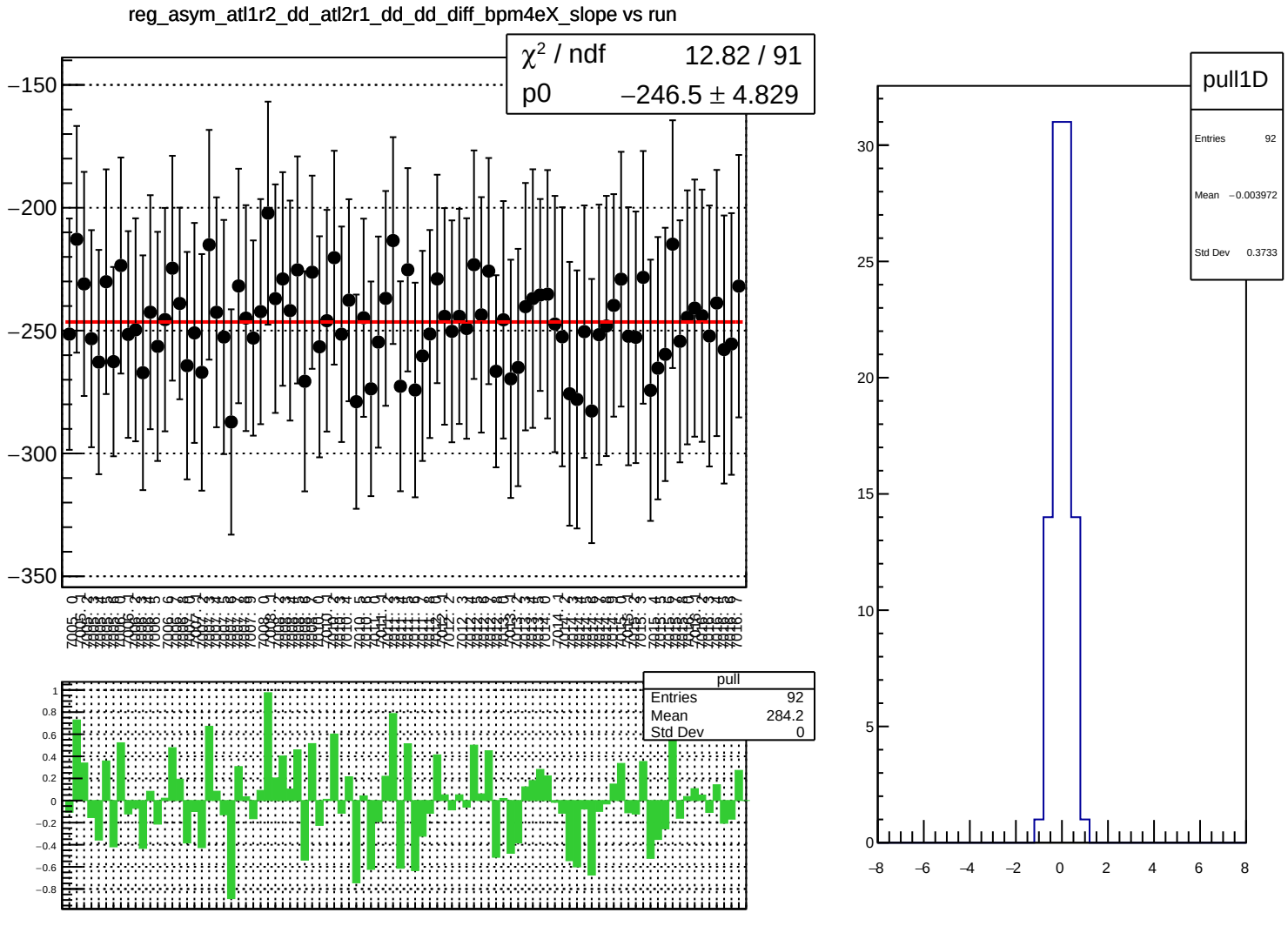

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.46 / 91
p0 −89.92 ± 3.706
pull
Entries 92
Mean 665.3
Std Dev 0

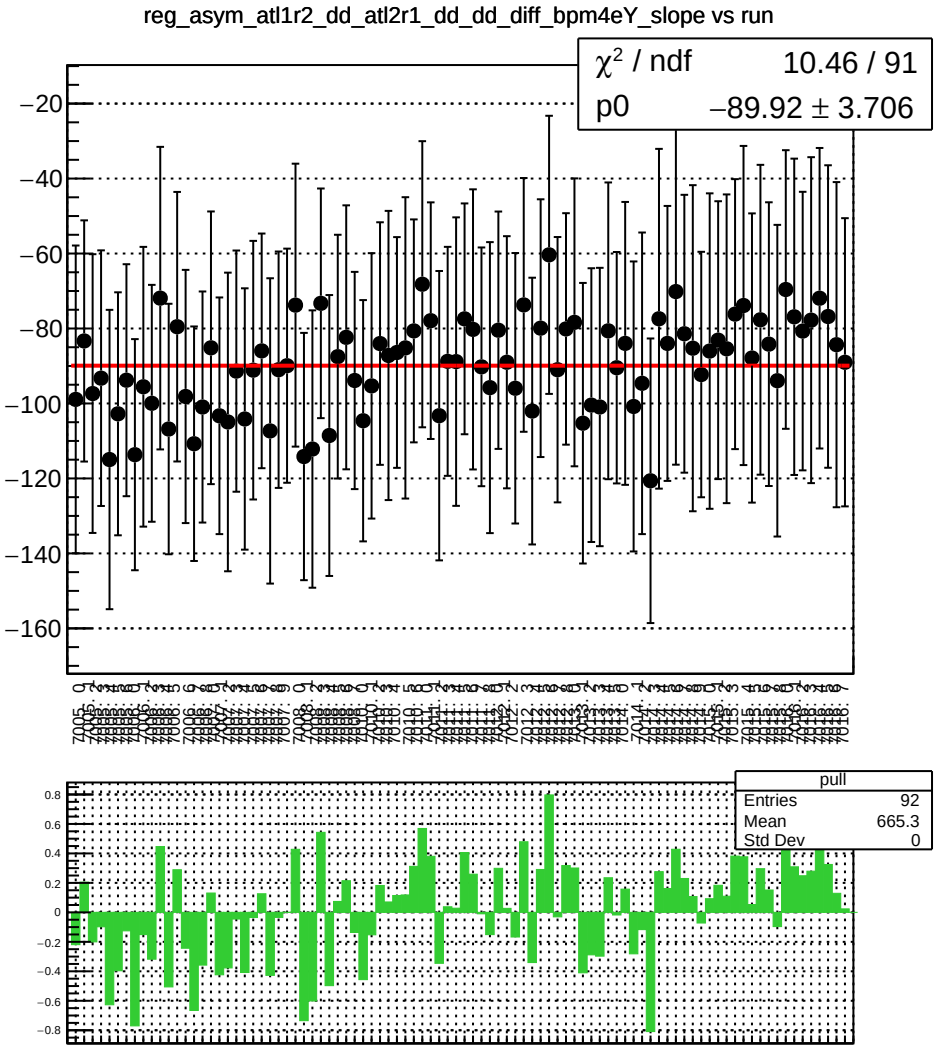

pull1D
Entries 92
Mean 0.006099
Std Dev 0.3371

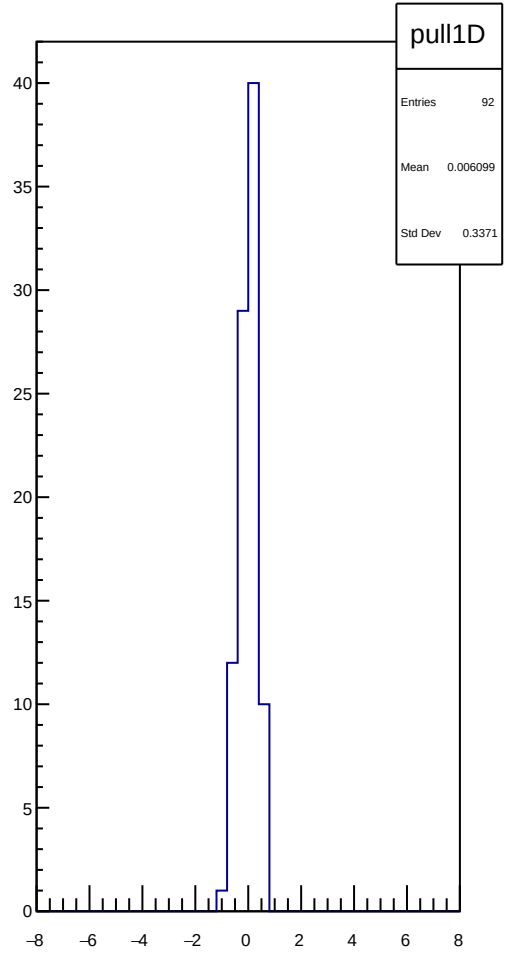

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 15.67 / 91
p0 124.8 ± 0.1667
pull
Entries 92
Mean 405
Std Dev 0
pull1D
Entries 92
Mean 0.01331
Std Dev 0.4125

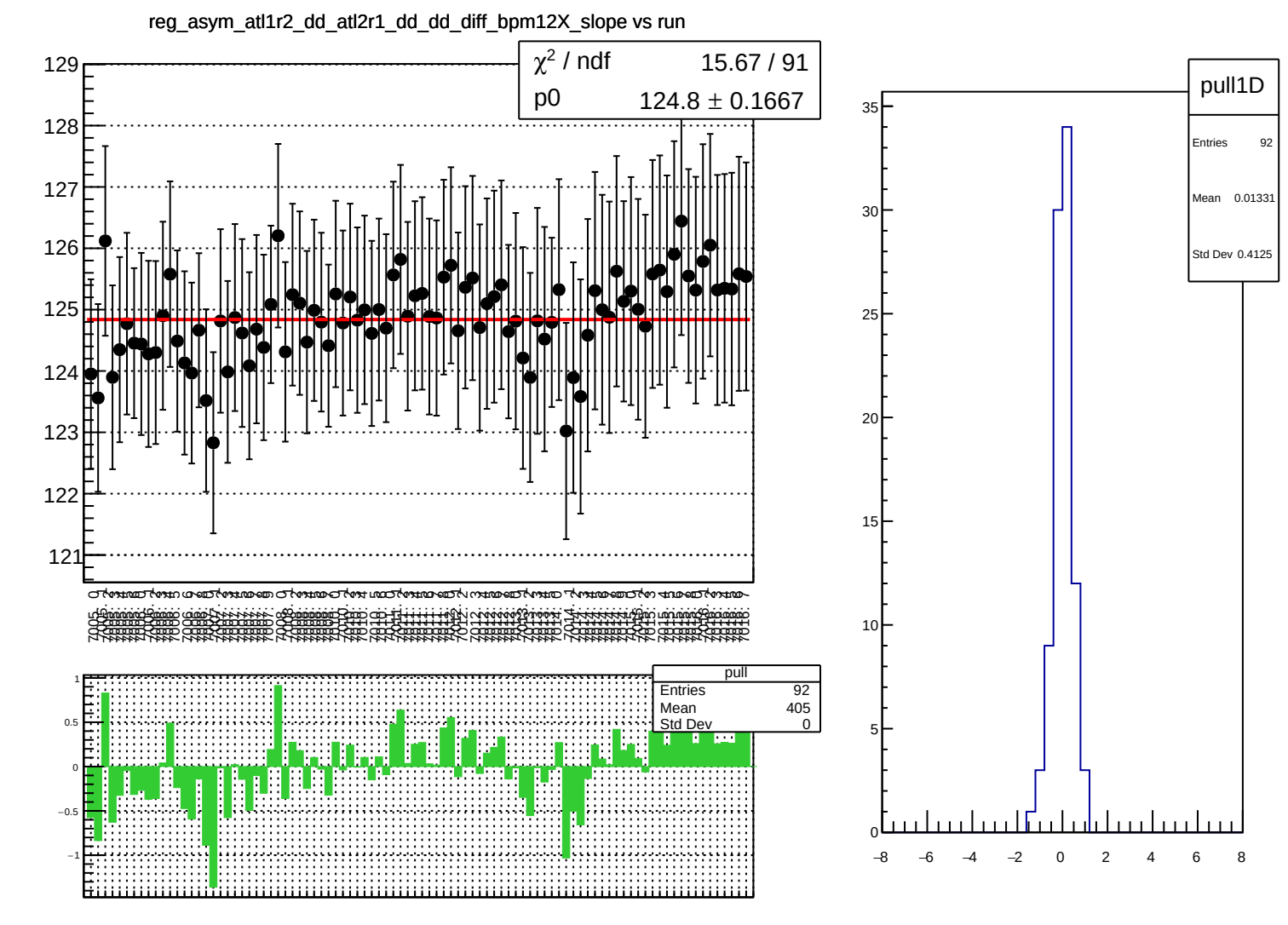

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 13.27 / 91
p0 247.3 ± 5.216
350
300
250
200
150
pull
Entries 92
Mean 363.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 92
Mean 0.003204
Std Dev 0.3798
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

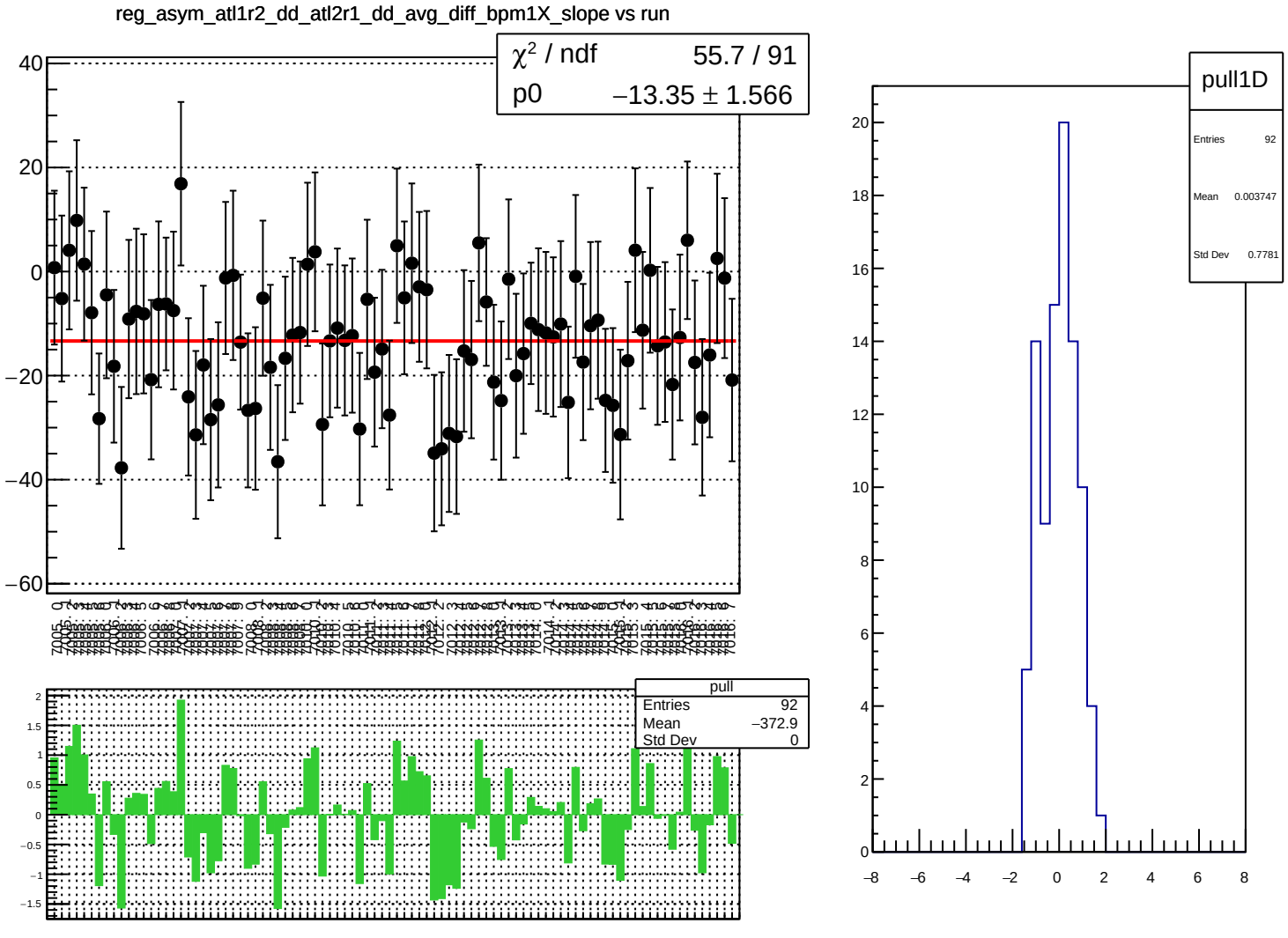

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.616 / 91
p0 14.56 ± 3.537
pull
Entries 92
Mean 797.6
Std Dev 0
pull1D
Entries 92
Mean −0.002617
Std Dev 0.306

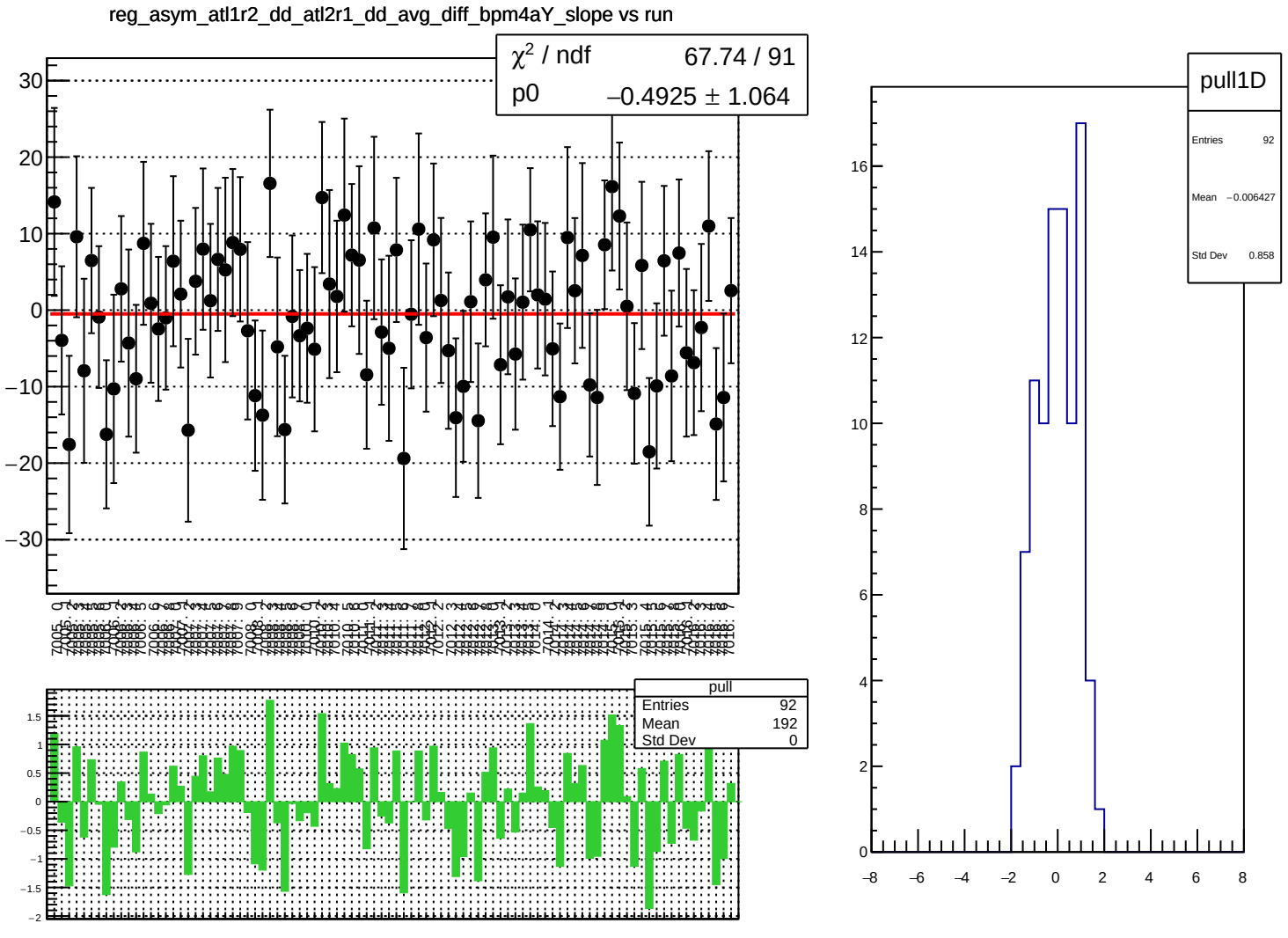

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.82 / 91
p0 −246.5 ± 4.829
−150
−200
−250
−300
−350
pull
Entries 92
Mean 284.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.003972
Std Dev 0.3733
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

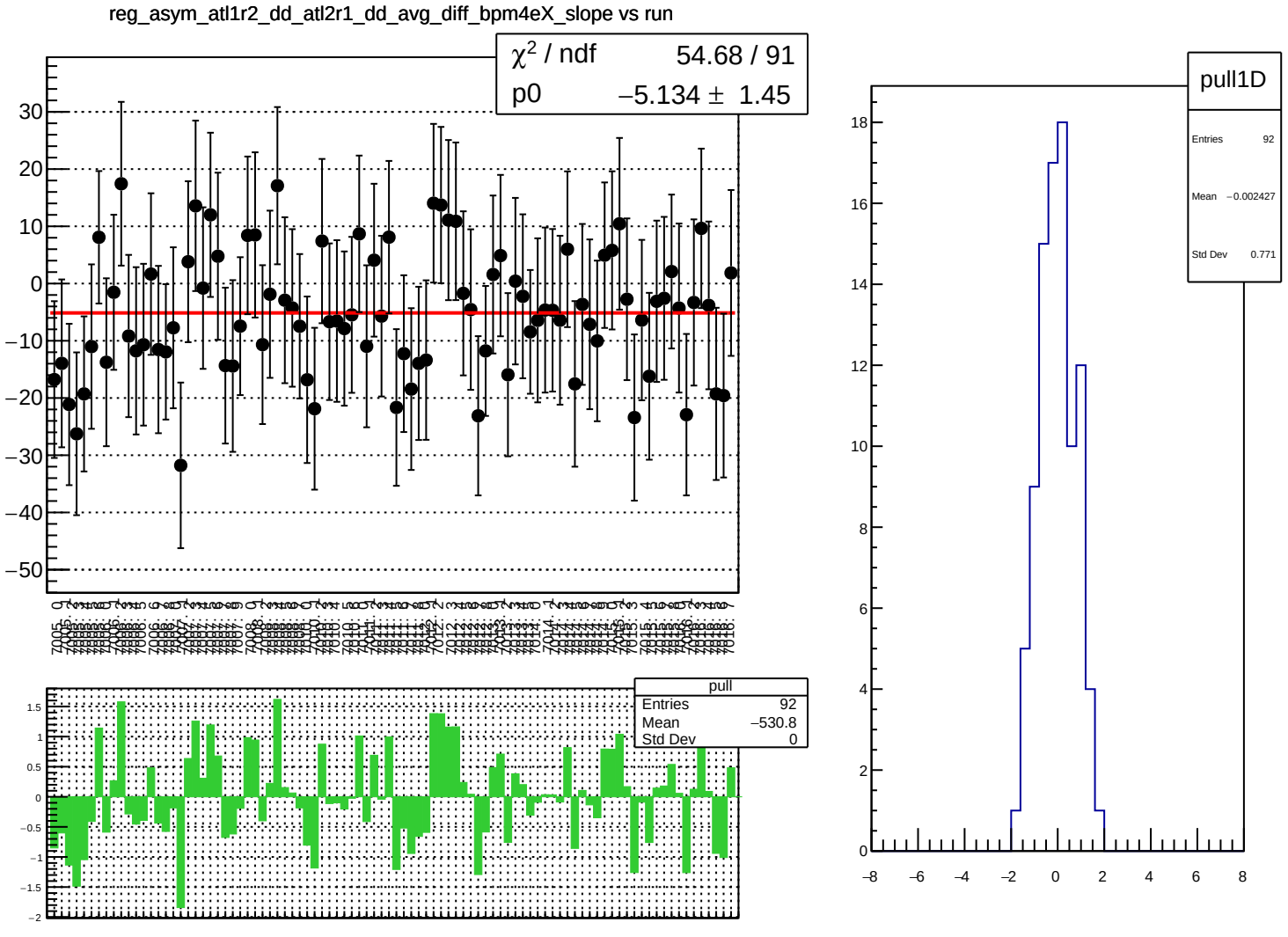

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.46 / 91
p0 −89.92 ± 3.706
pull
Entries 92
Mean 665.3
Std Dev 0

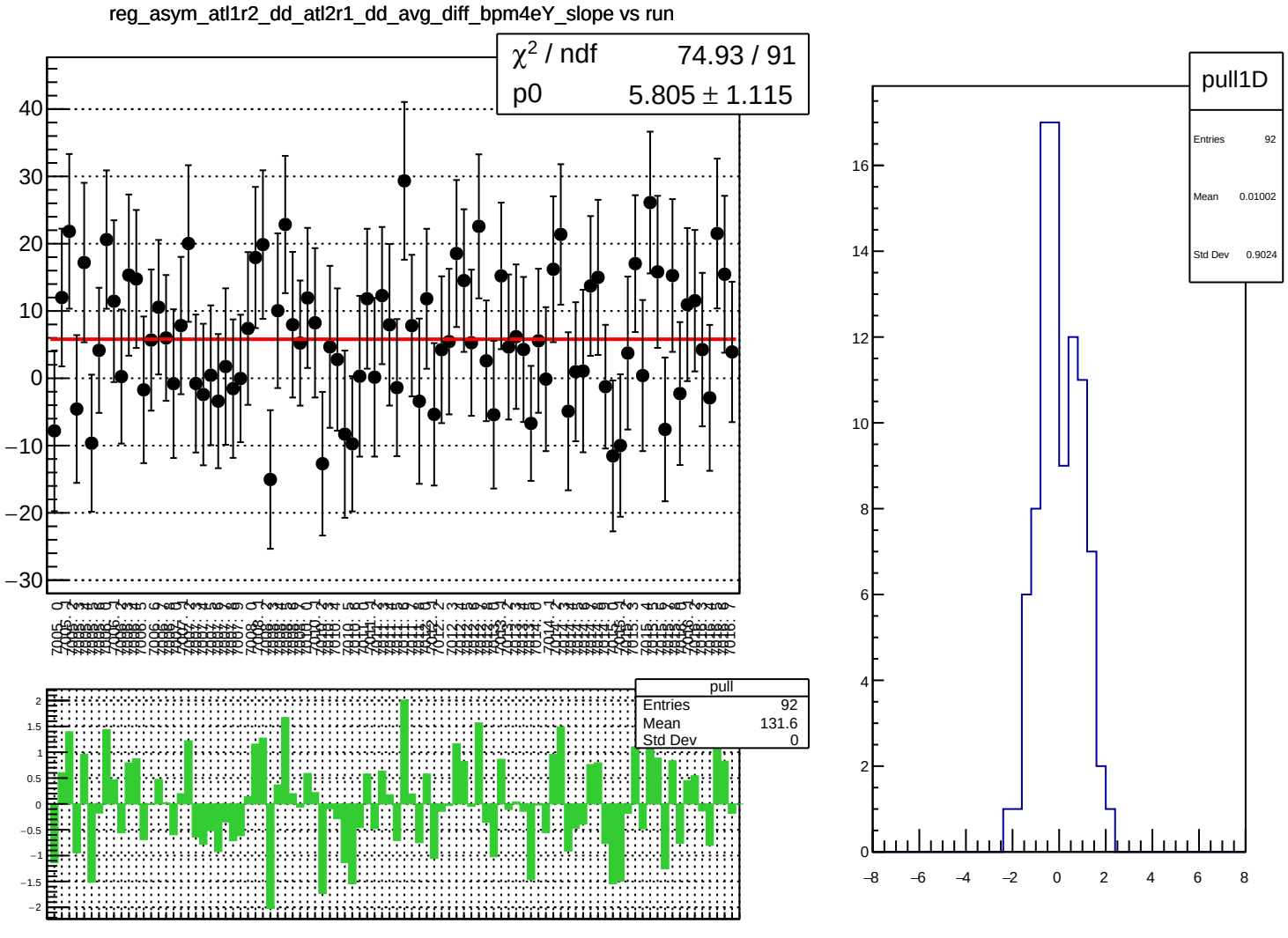

pull1D
Entries 92
Mean 0.006099
Std Dev 0.3371

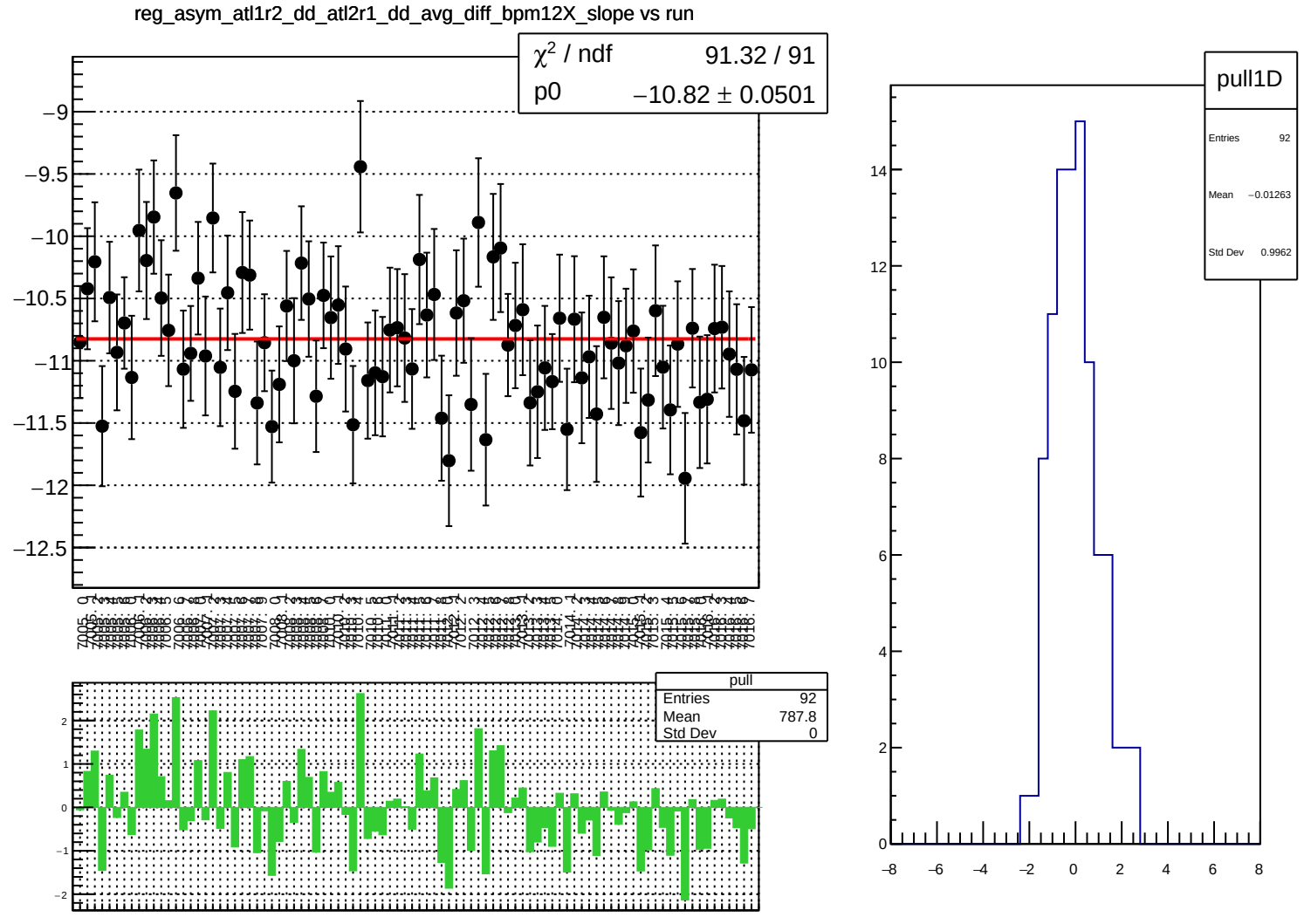

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 15.67 / 91
p0 124.8 ± 0.1667
pull
Entries 92
Mean 405
Std Dev 0
pull1D
Entries 92
Mean 0.01331
Std Dev 0.4125

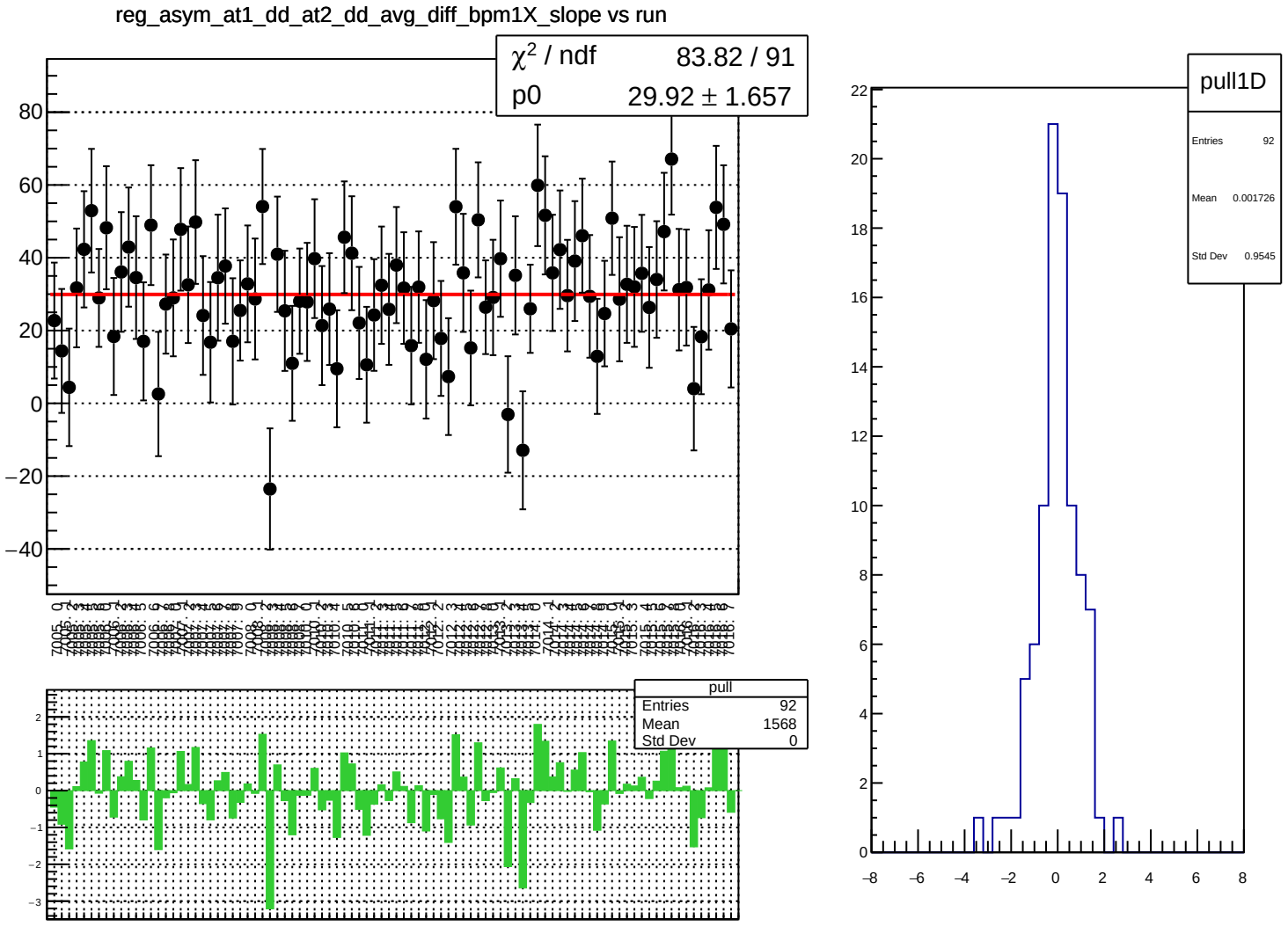

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 55.7 / 91
p0 −13.35 ± 1.566
pull
Entries 92
Mean −372.9
Std Dev 0
pull1D
Entries 92
Mean 0.003747
Std Dev 0.7781

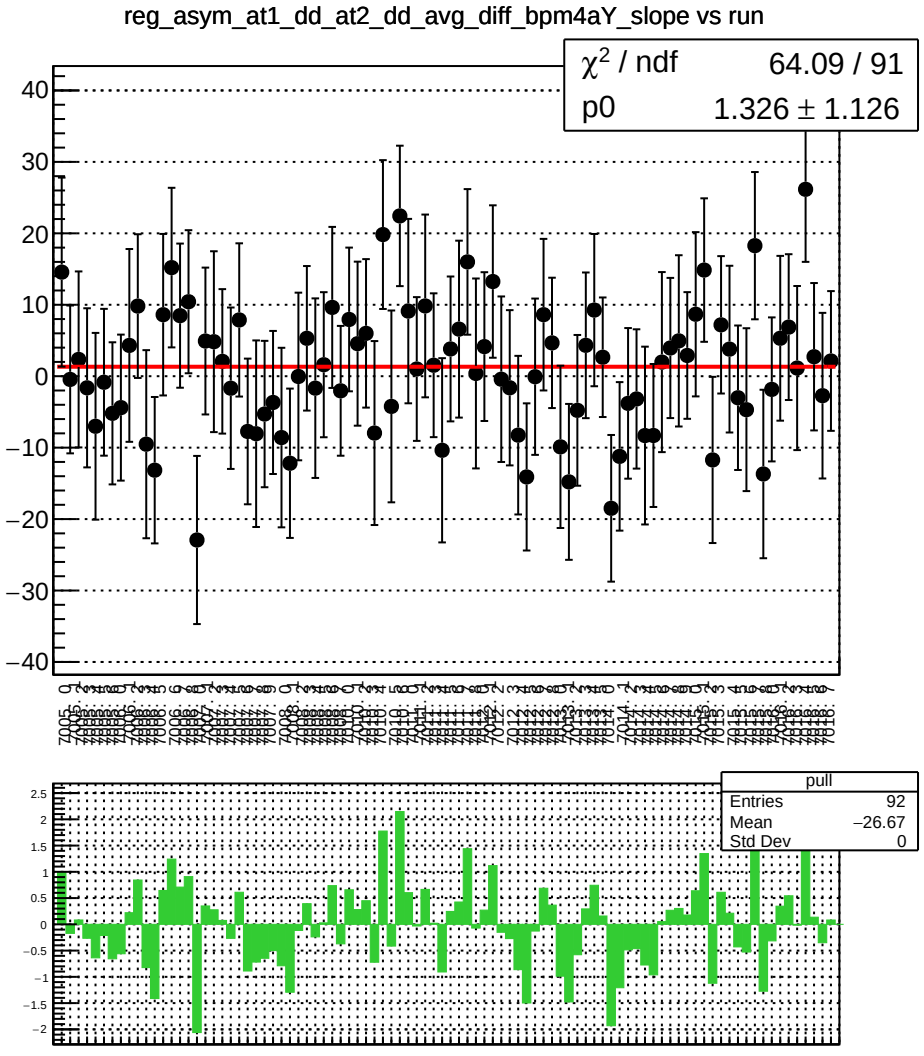

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.74 / 91
p0 −0.4925 ± 1.064
pull
Entries 92
Mean 192
Std Dev 0
pull1D
Entries 92
Mean −0.006427
Std Dev 0.858

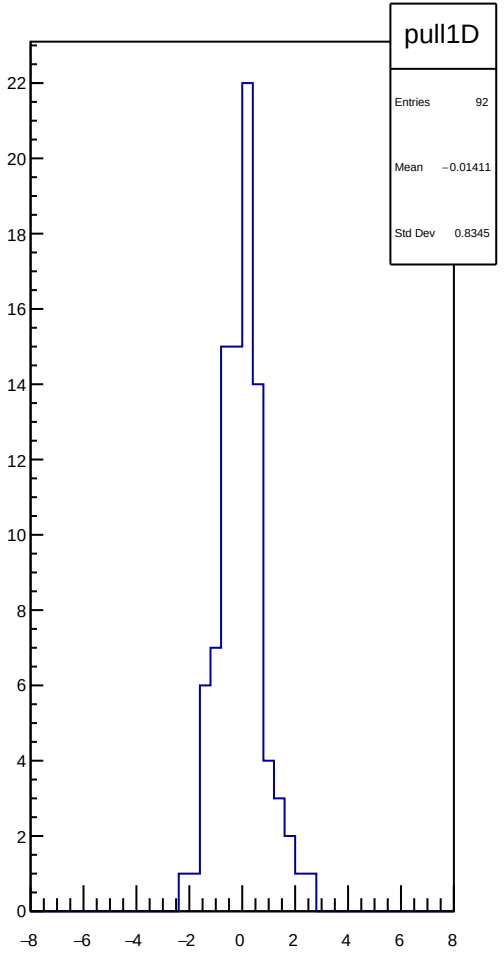

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.68 / 91
p0 −5.134 ± 1.45
pull
Entries 92
Mean −530.8
Std Dev 0
pull1D
Entries 92
Mean −0.002427
Std Dev 0.771

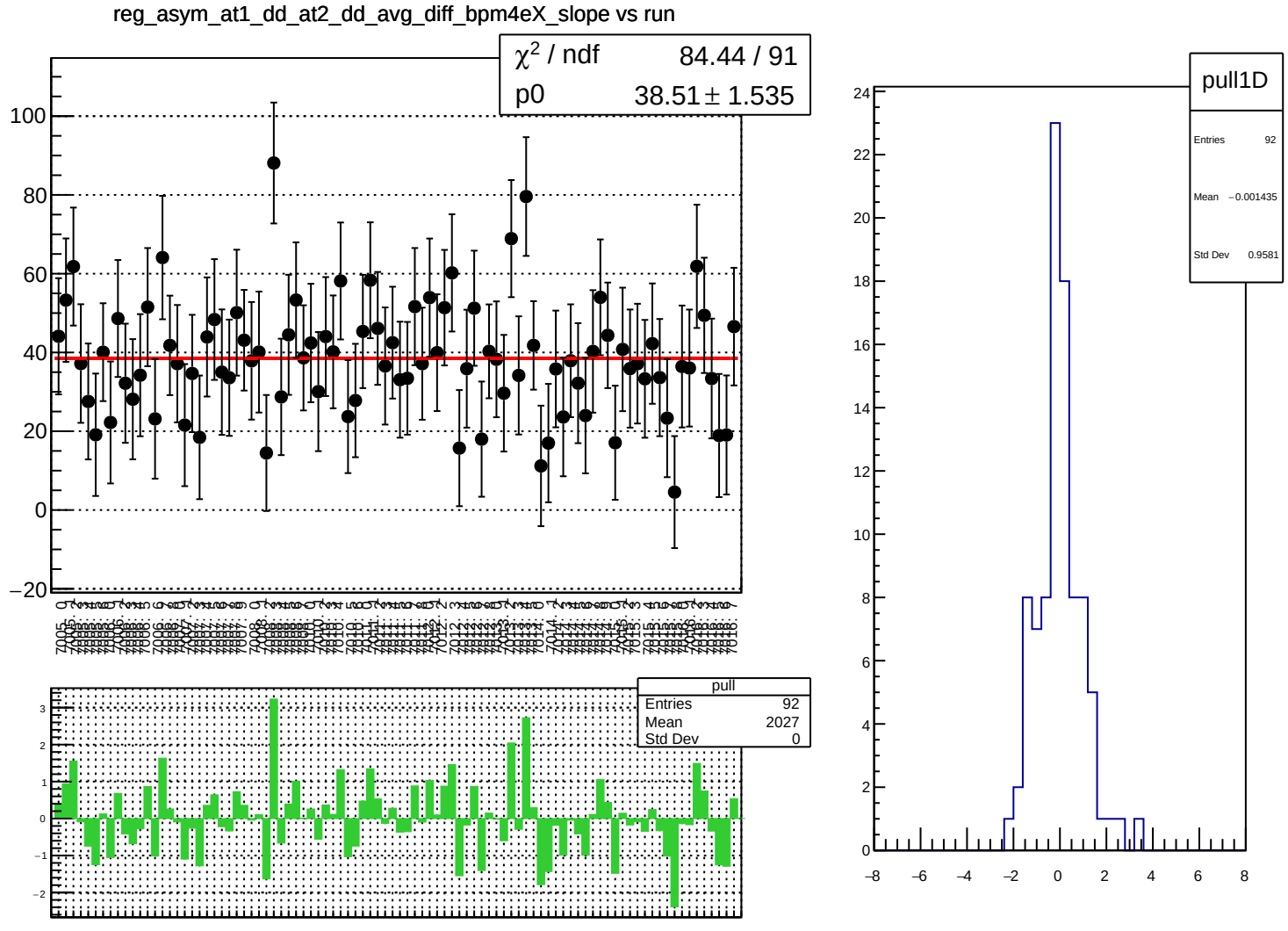

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.93 / 91
p0 5.805 ± 1.115
pull
Entries 92
Mean 131.6
Std Dev 0
pull1D
Entries 92
Mean 0.01002
Std Dev 0.9024

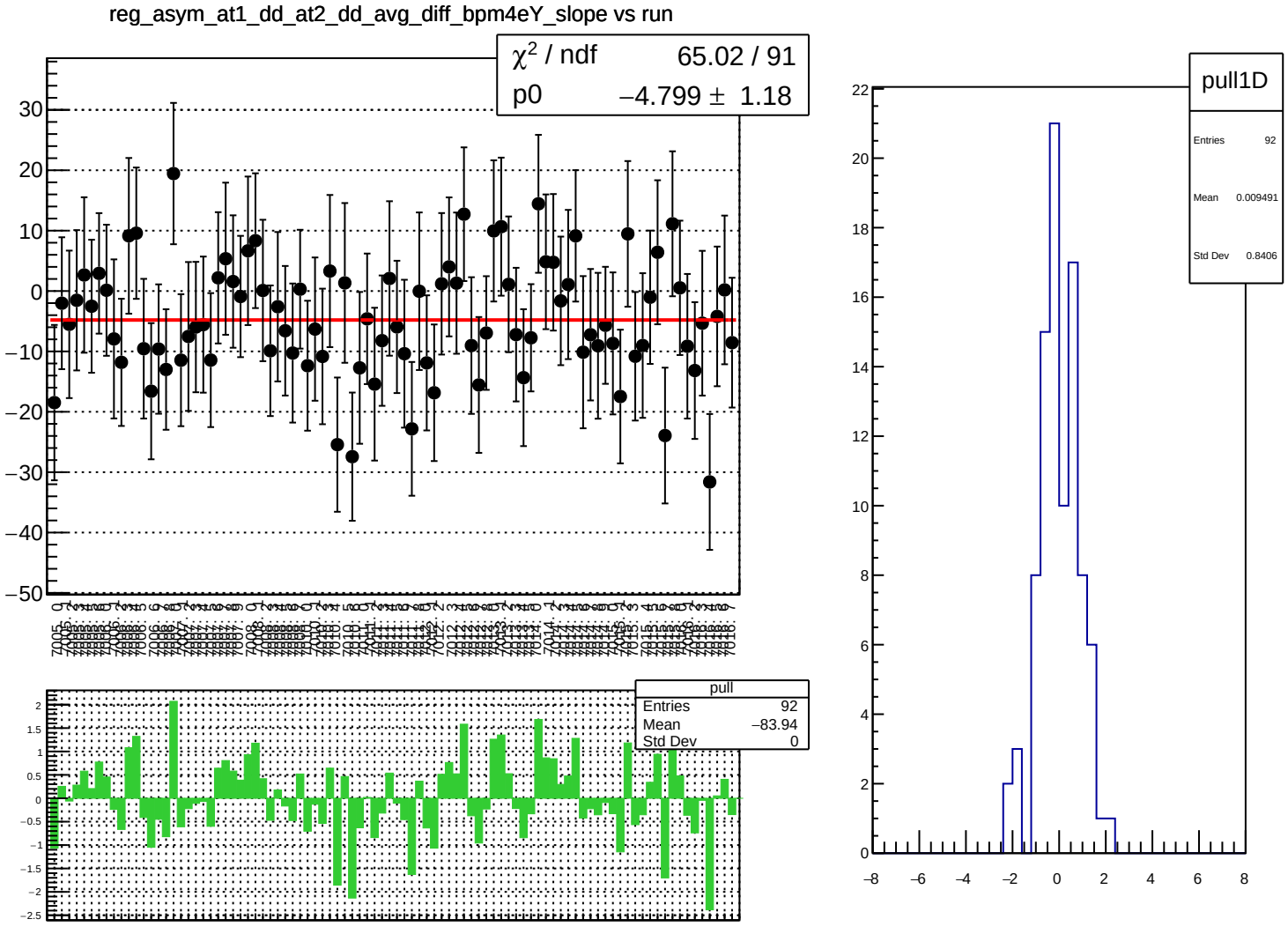

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 91.32 / 91
p0 −10.82 ± 0.0501
pull
Entries 92
Mean 787.8
Std Dev 0
pull1D
Entries 92
Mean −0.01263
Std Dev 0.9962

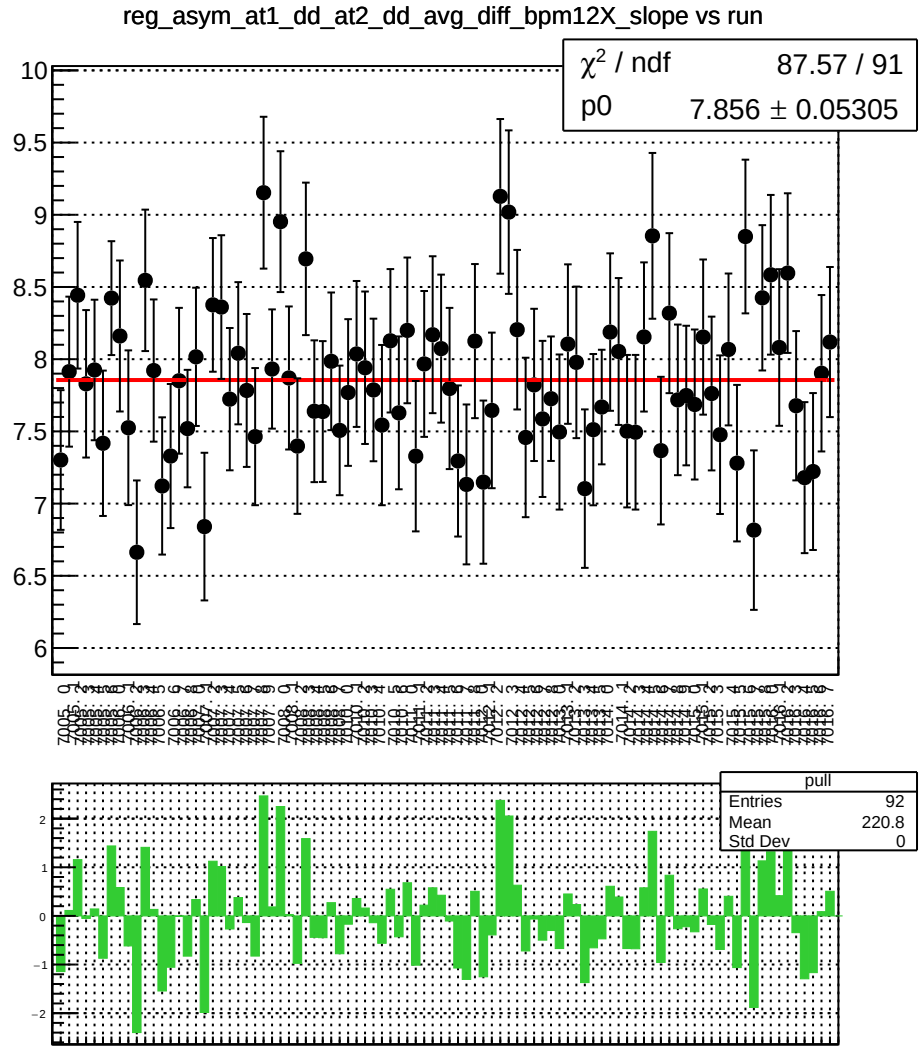

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 83.82 / 91
p0 29.92 ± 1.657
pull
Entries 92
Mean 1568
Std Dev 0
pull1D
Entries 92
Mean 0.001726
Std Dev 0.9545

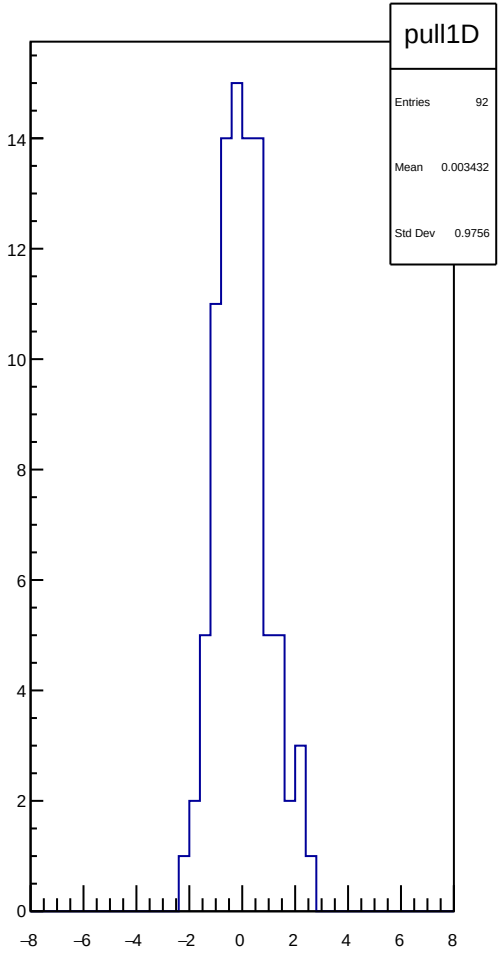

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.09 / 91
p0 1.326 ± 1.126
pull
Entries 92
Mean −26.67
Std Dev 0

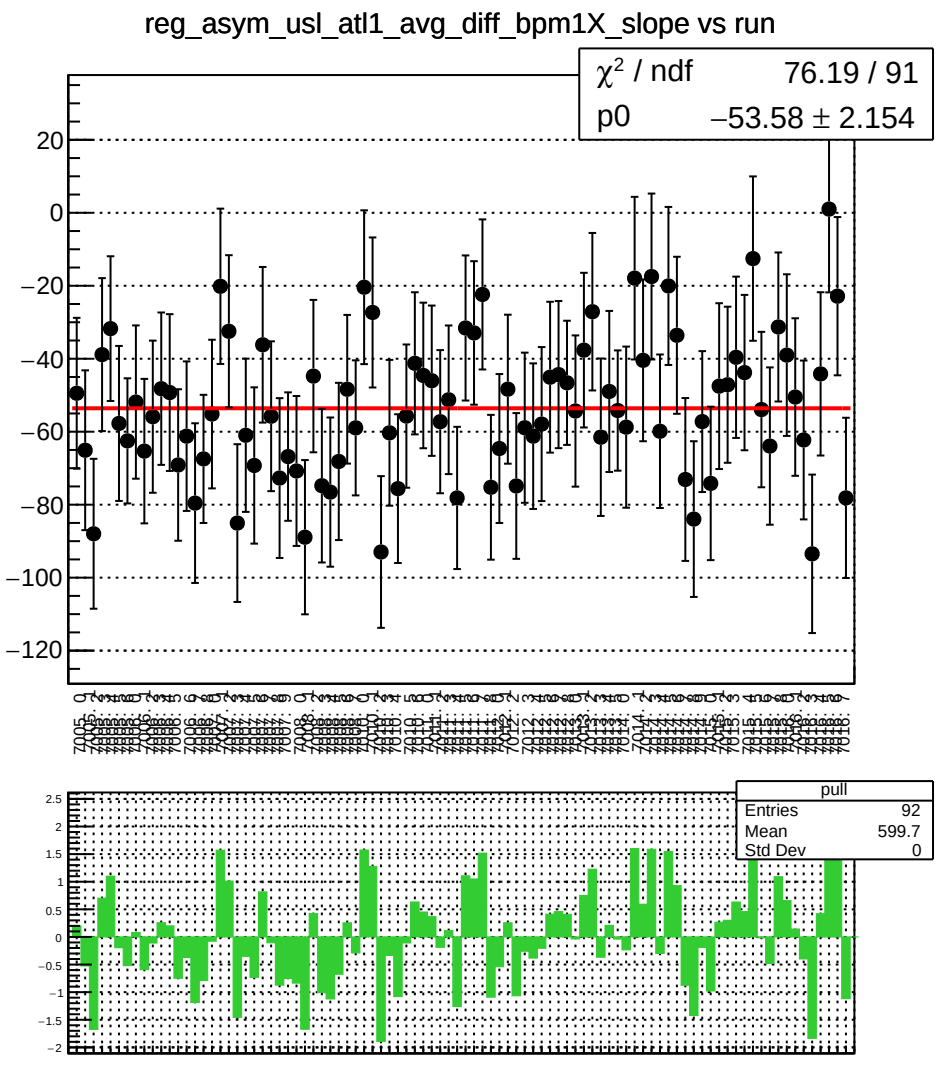

pull1D
Entries 92
Mean −0.01411
Std Dev 0.8345

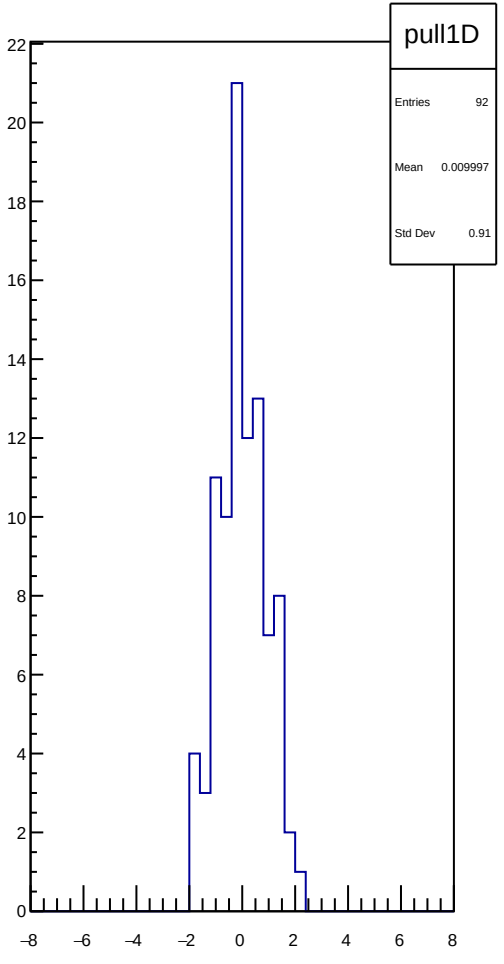

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.44 / 91
p0 38.51 ± 1.535
pull
Entries 92
Mean 2027
Std Dev 0
pull1D
Entries 92
Mean −0.001435
Std Dev 0.9581

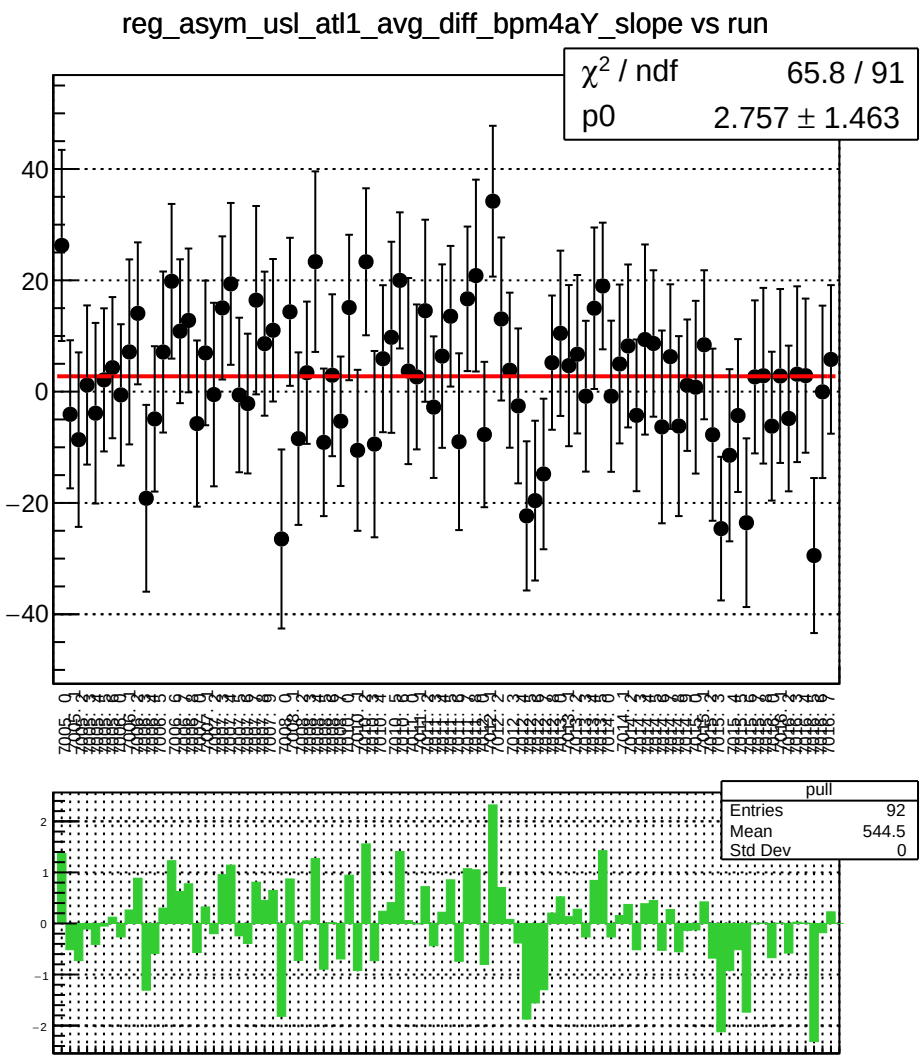

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.02 / 91
p0 −4.799 ± 1.18
pull
Entries 92
Mean −83.94
Std Dev 0
pull1D
Entries 92
Mean 0.009491
Std Dev 0.8406

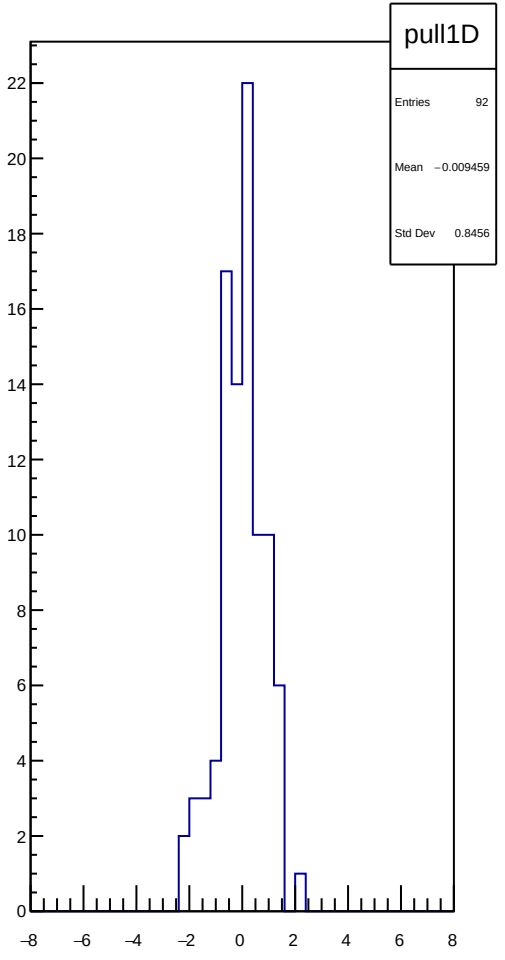

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 87.57 / 91
p0 7.856 ± 0.05305
pull
Entries 92
Mean 220.8
Std Dev 0

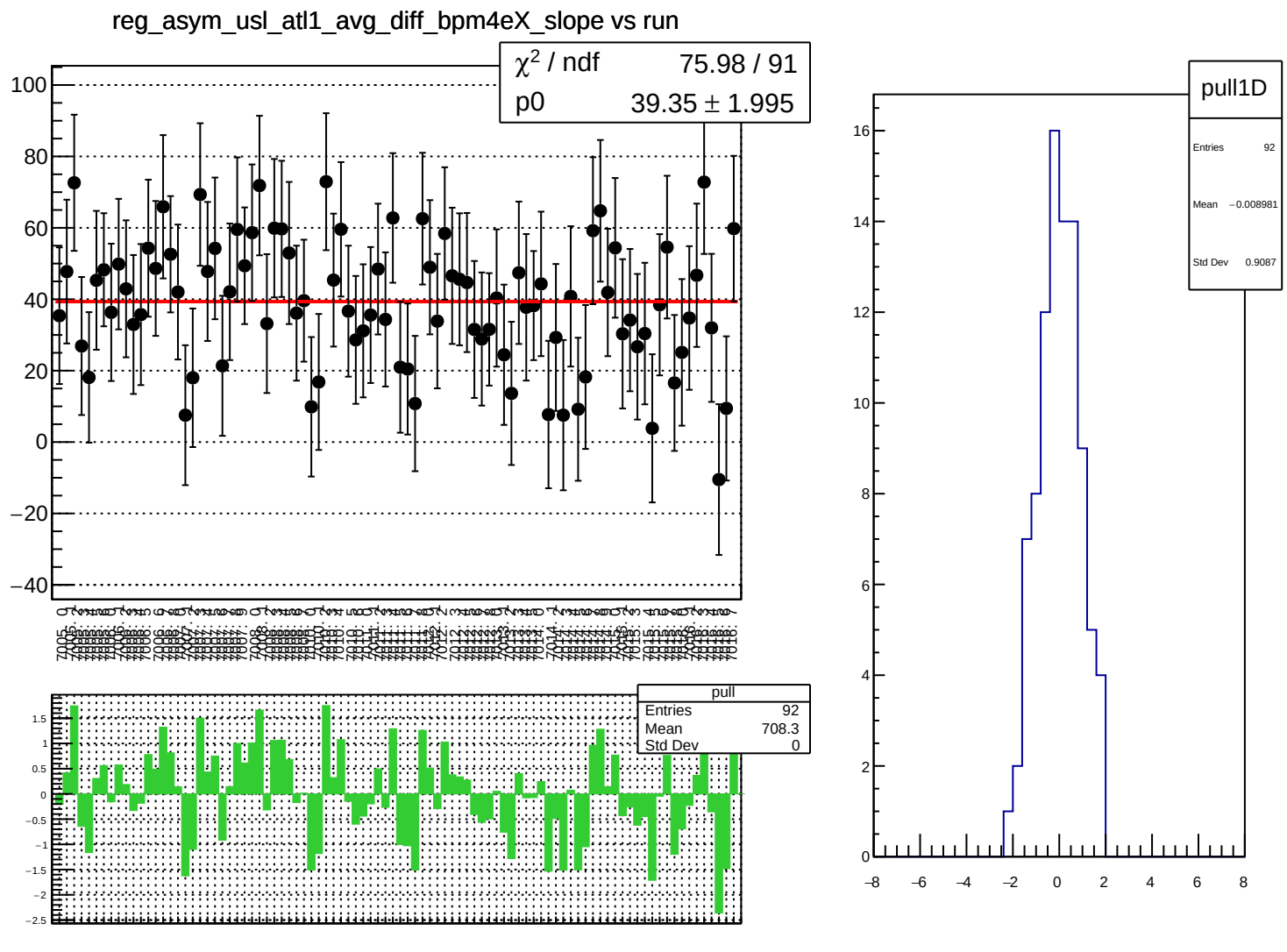

pull1D
Entries 92
Mean 0.003432
Std Dev 0.9756

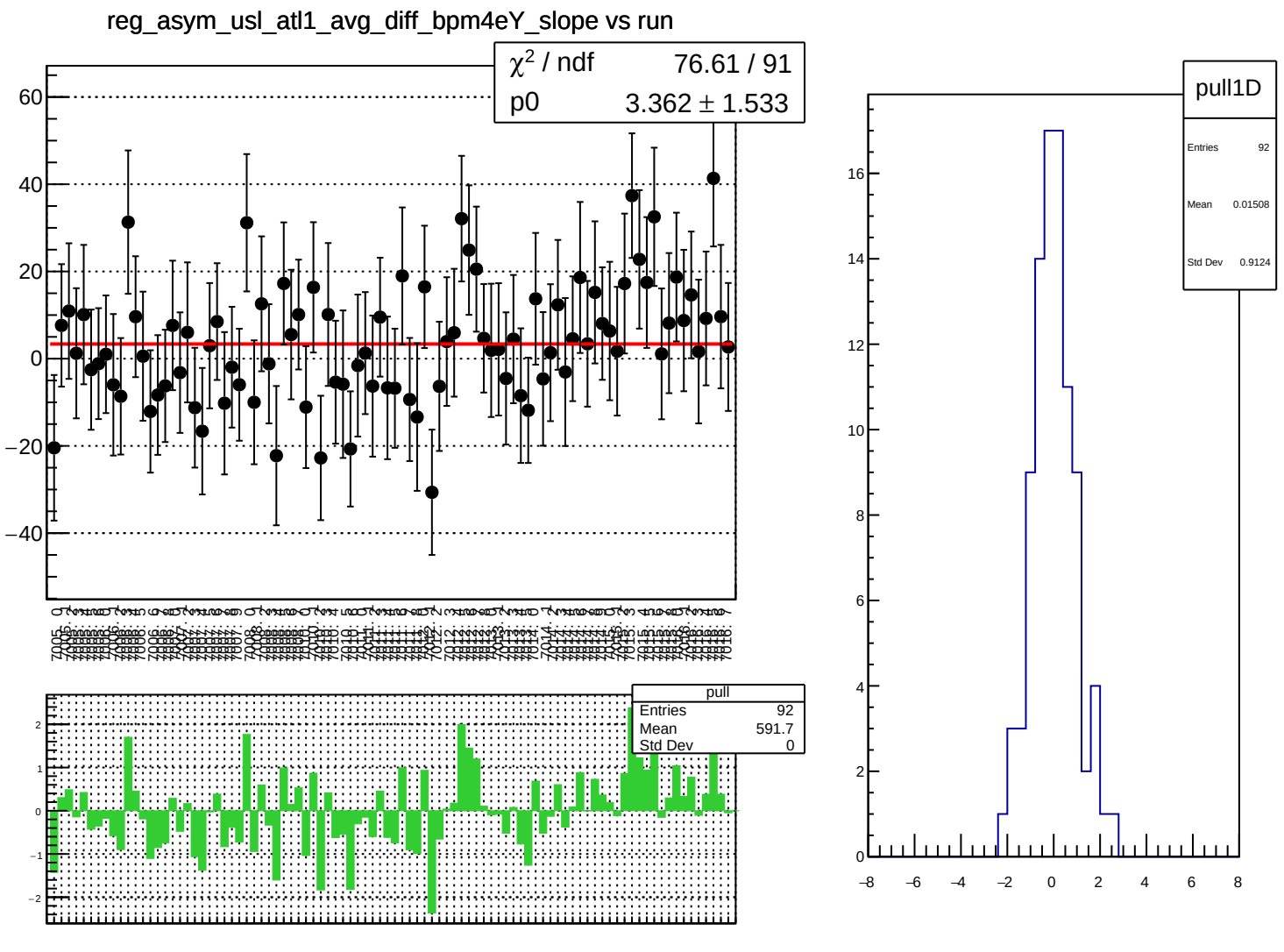

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 76.19 / 91
p0 −53.58 ± 2.154
pull
Entries 92
Mean 599.7
Std Dev 0

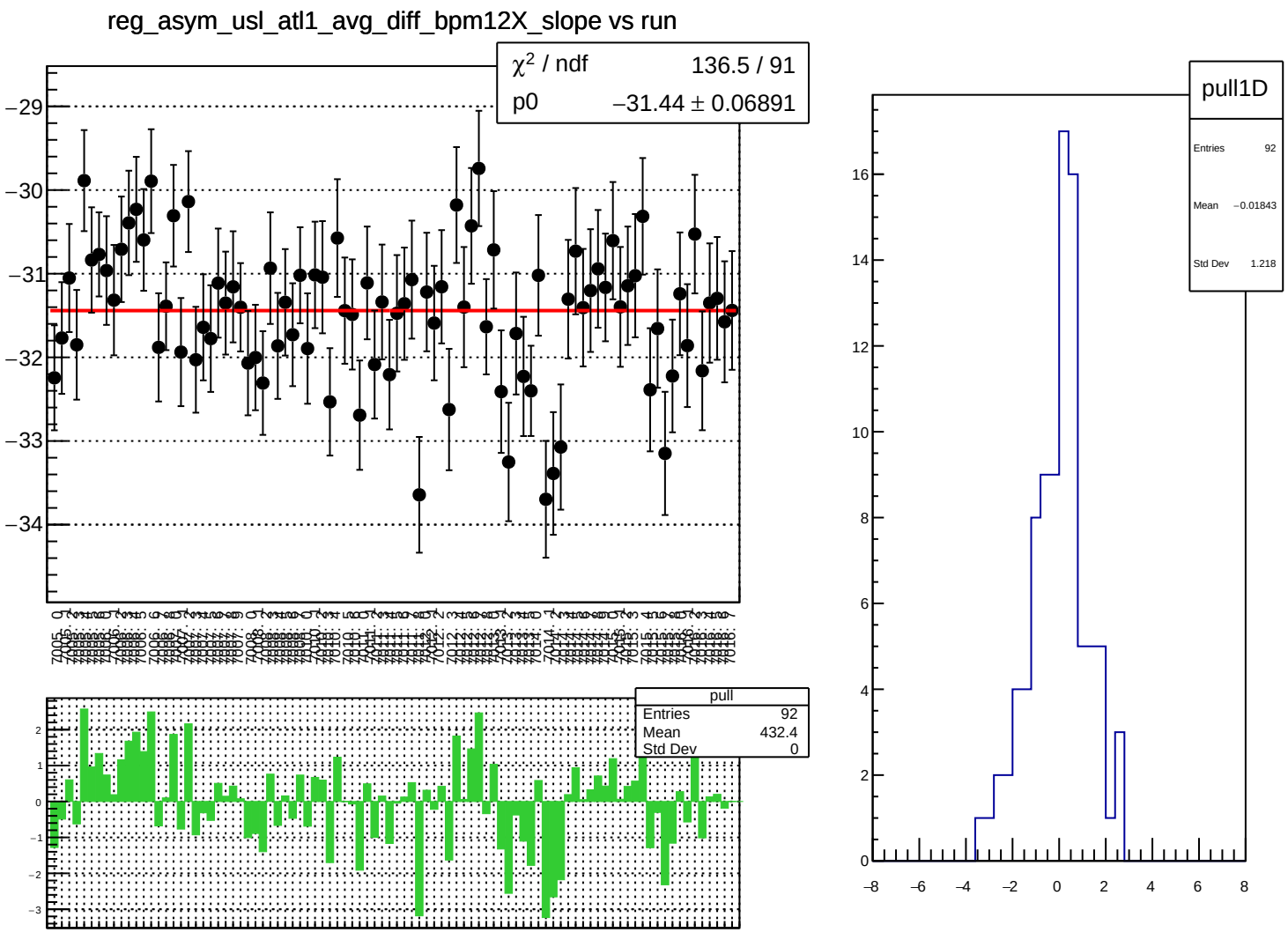

pull1D
Entries 92
Mean 0.009997
Std Dev 0.91

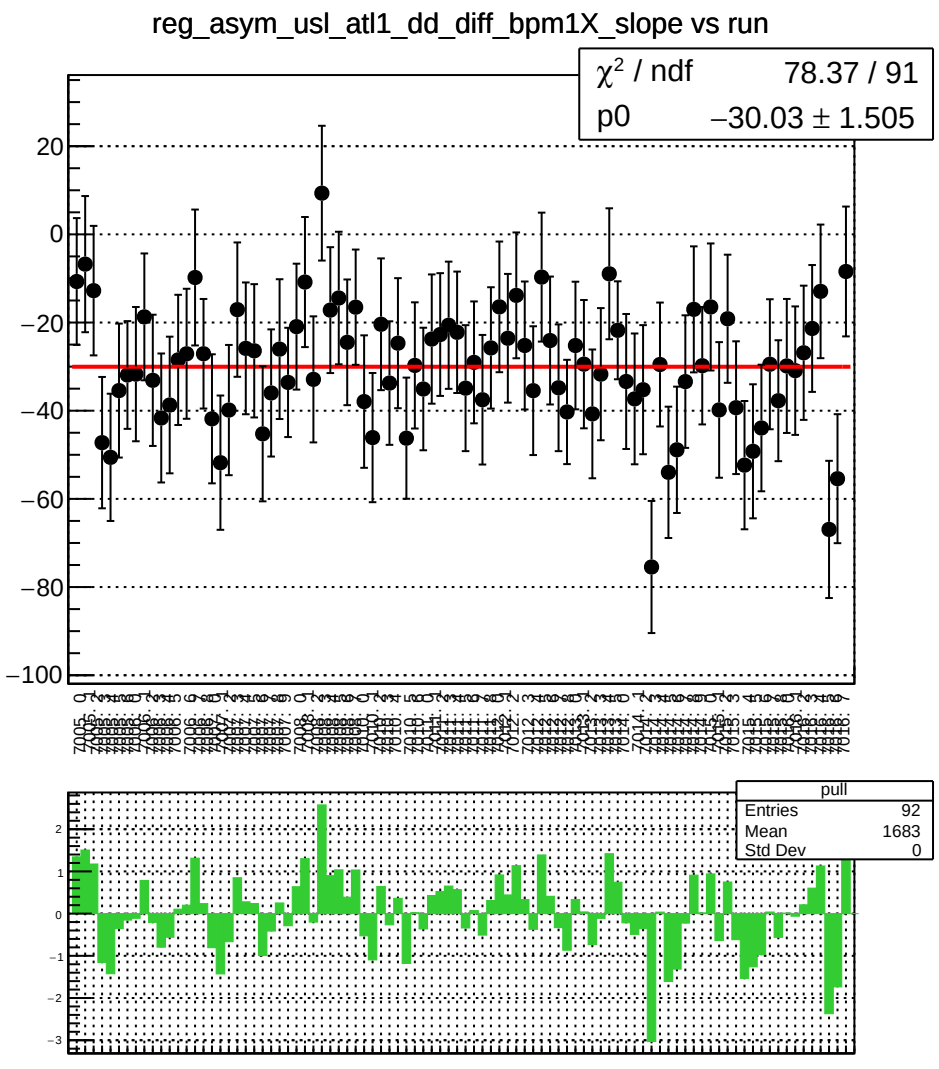

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 65.8 / 91
p0 2.757 ± 1.463
pull
Entries 92
Mean 544.5
Std Dev 0

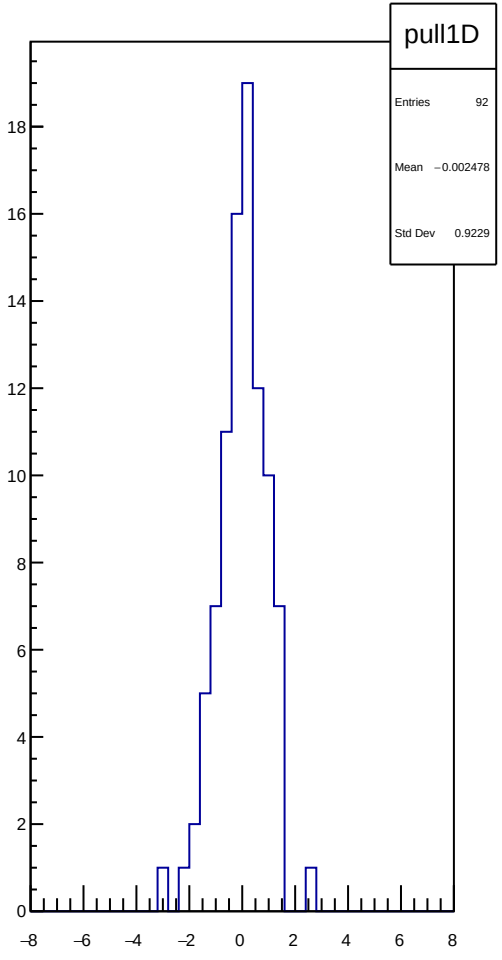

pull1D
Entries 92
Mean −0.009459
Std Dev 0.8456

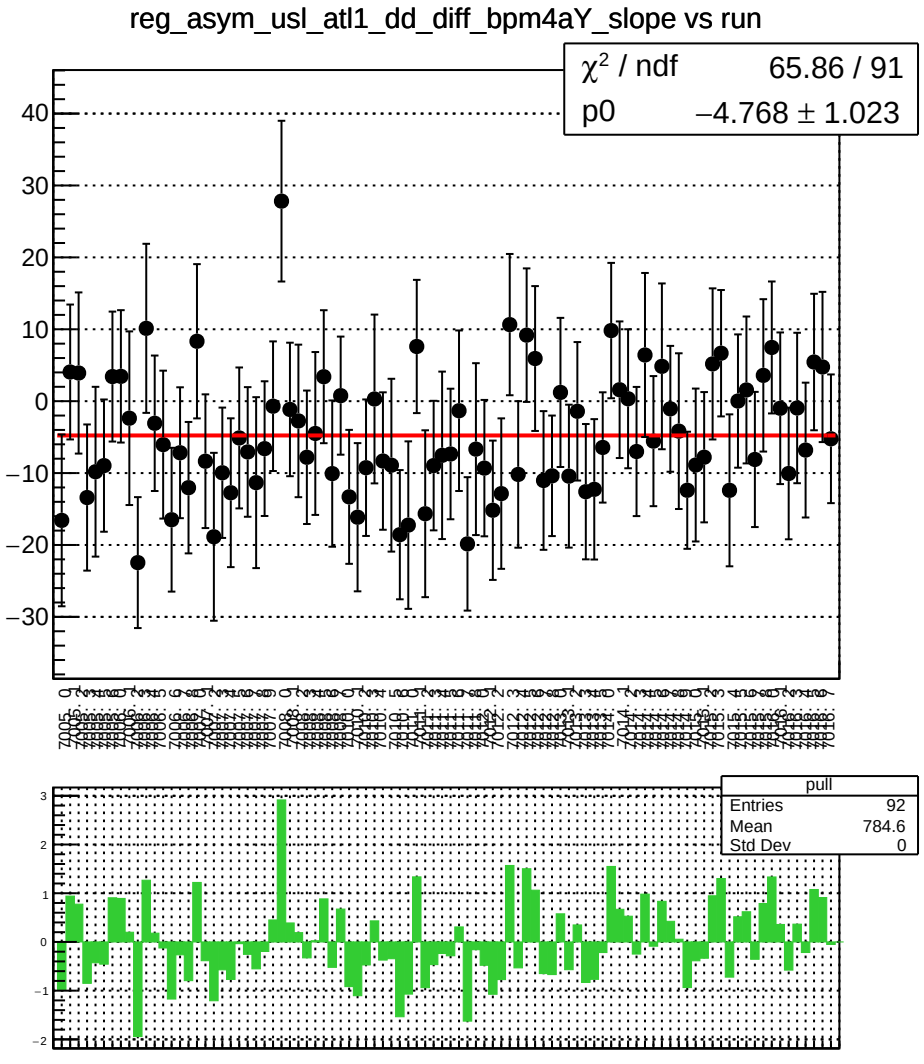

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.98 / 91
p0 39.35 ± 1.995
pull
Entries 92
Mean 708.3
Std Dev 0
pull1D
Entries 92
Mean −0.008981
Std Dev 0.9087

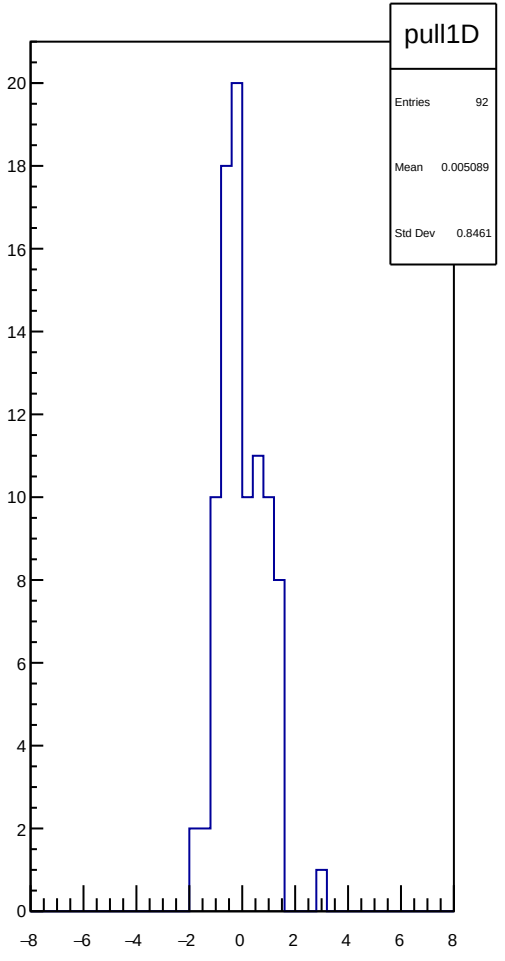

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.61 / 91
p0 3.362 ± 1.533
pull
Entries 92
Mean 591.7
Std Dev 0
pull1D
Entries 92
Mean 0.01508
Std Dev 0.9124

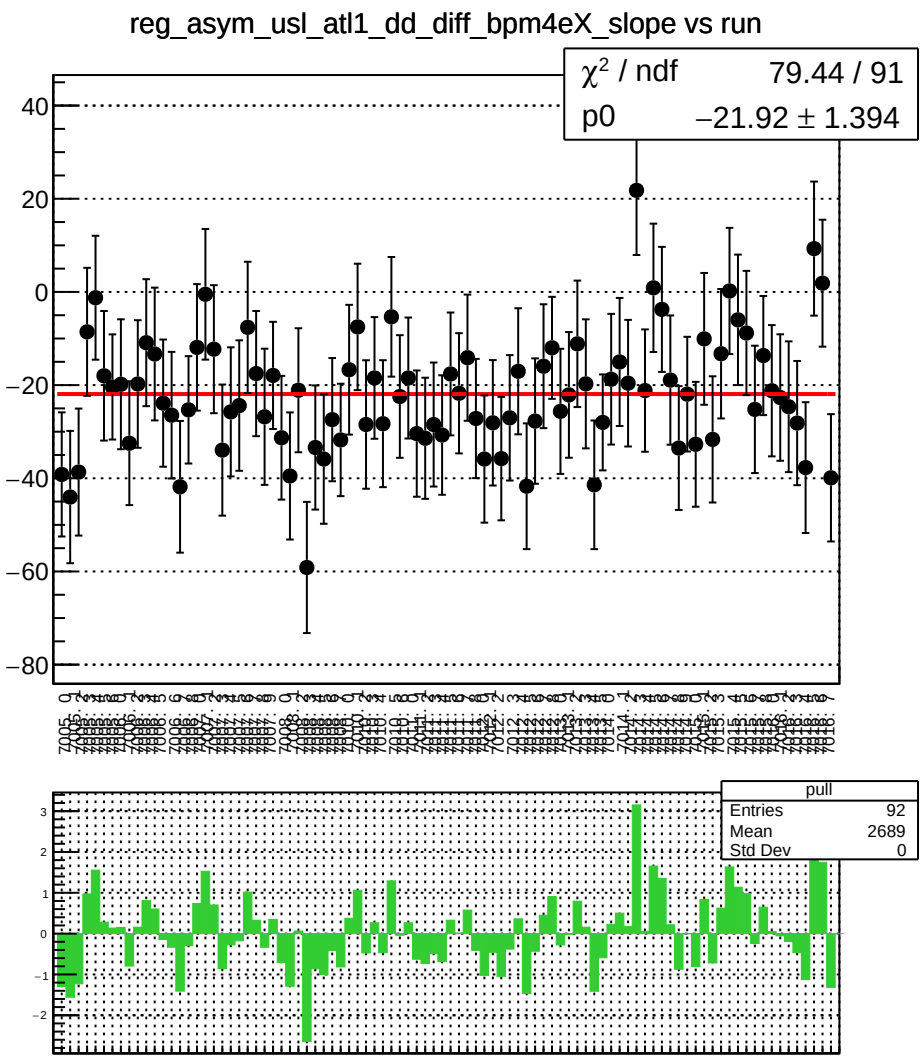

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 136.5 / 91
p0 −31.44 ± 0.06891
pull
Entries 92
Mean 432.4
Std Dev 0
pull1D
Entries 92
Mean −0.01843
Std Dev 1.218

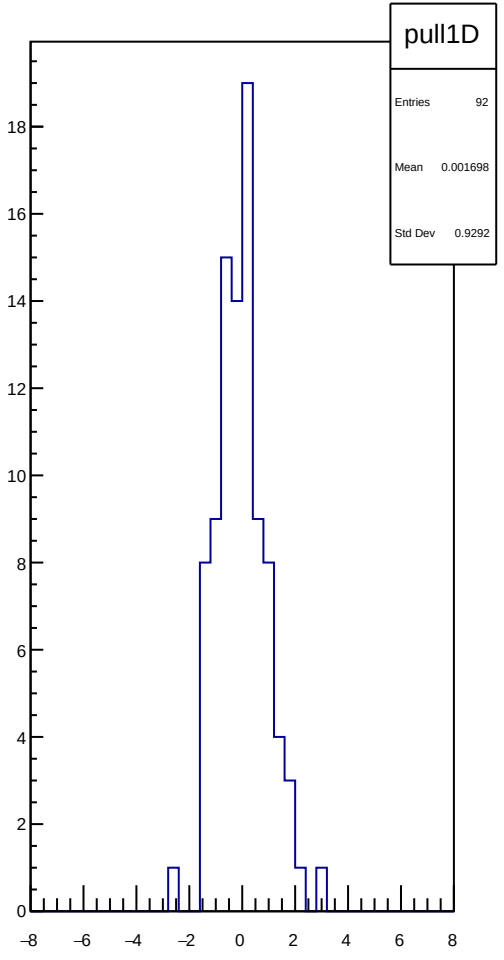

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 78.37 / 91
p0 −30.03 ± 1.505
pull
Entries 92
Mean 1683
Std Dev 0

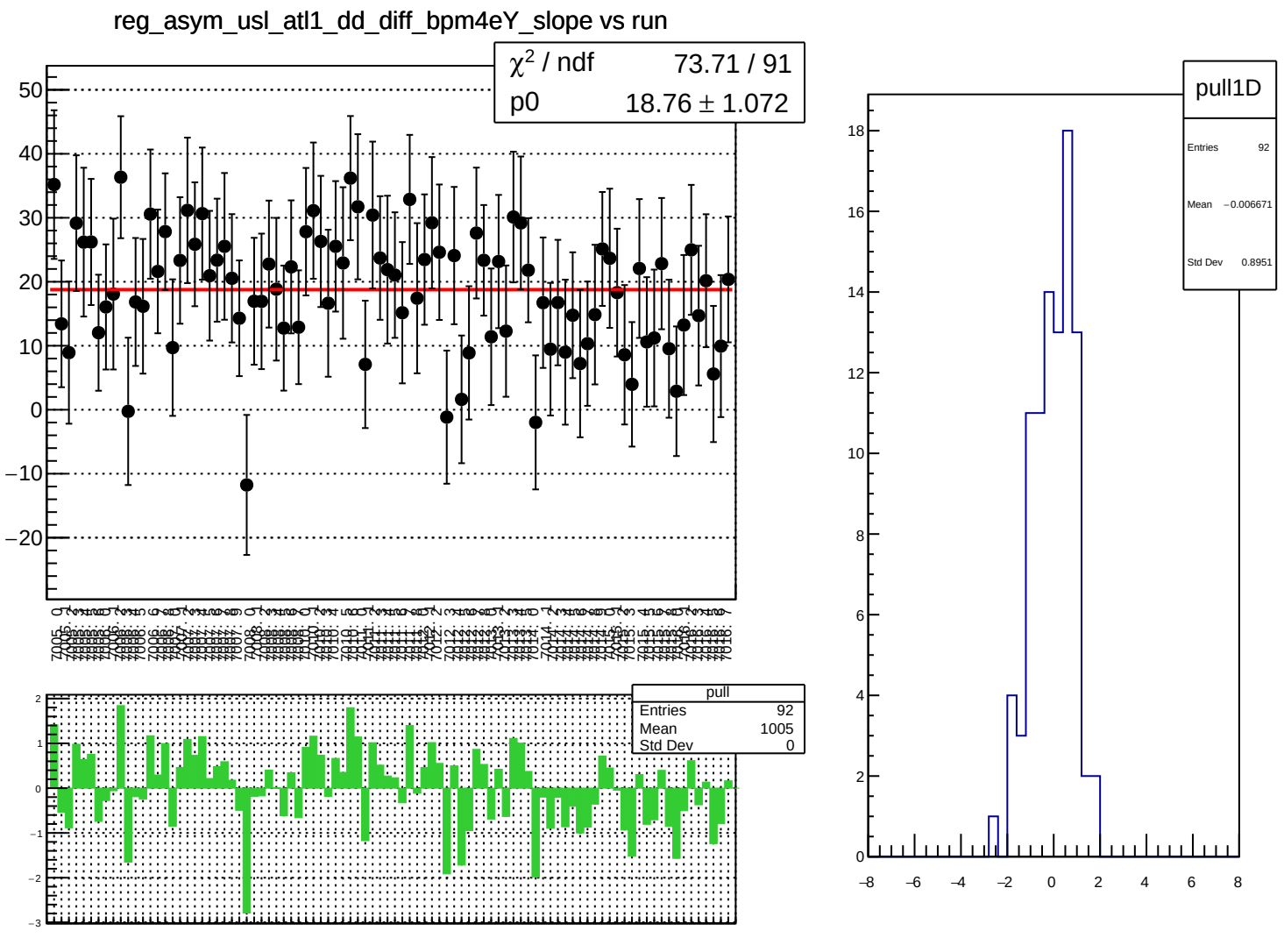

pull1D
Entries 92
Mean −0.002478
Std Dev 0.9229

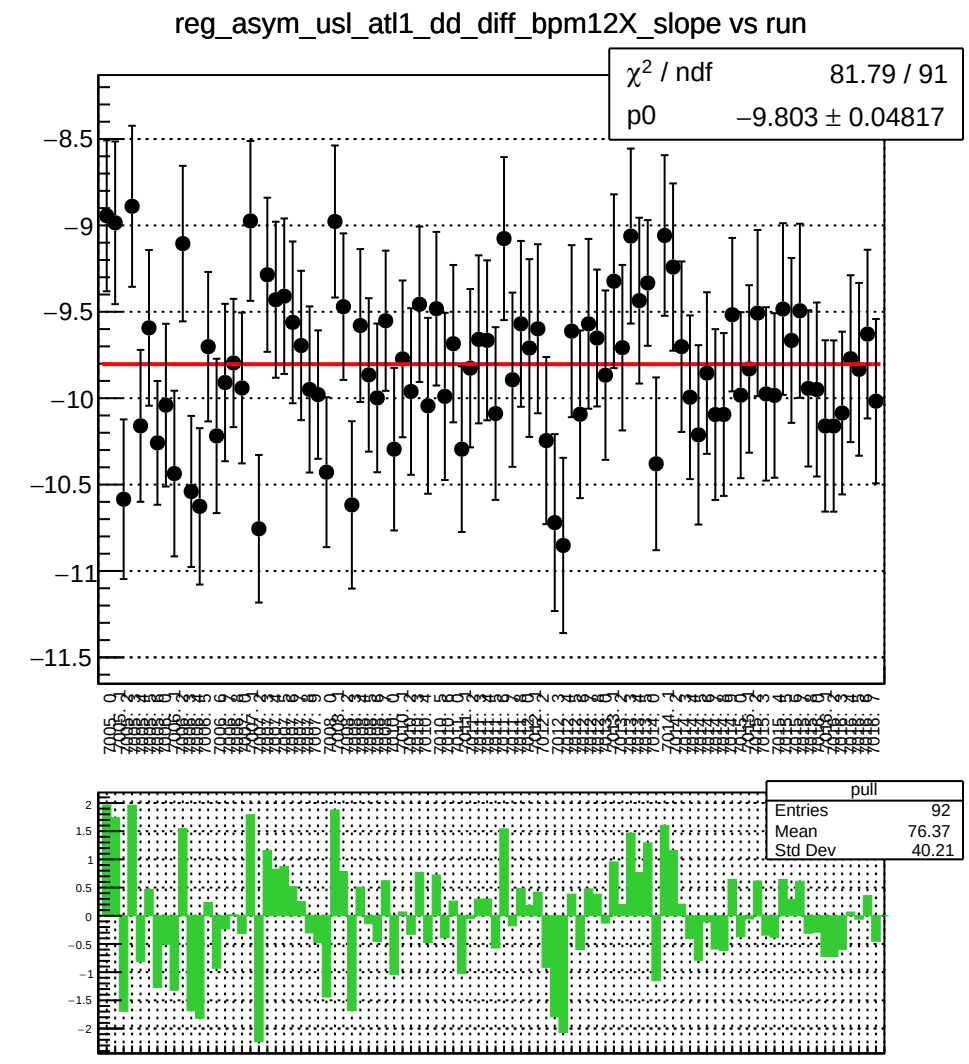

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.86 / 91
p0 −4.768 ± 1.023
pull
Entries 92
Mean 784.6
Std Dev 0

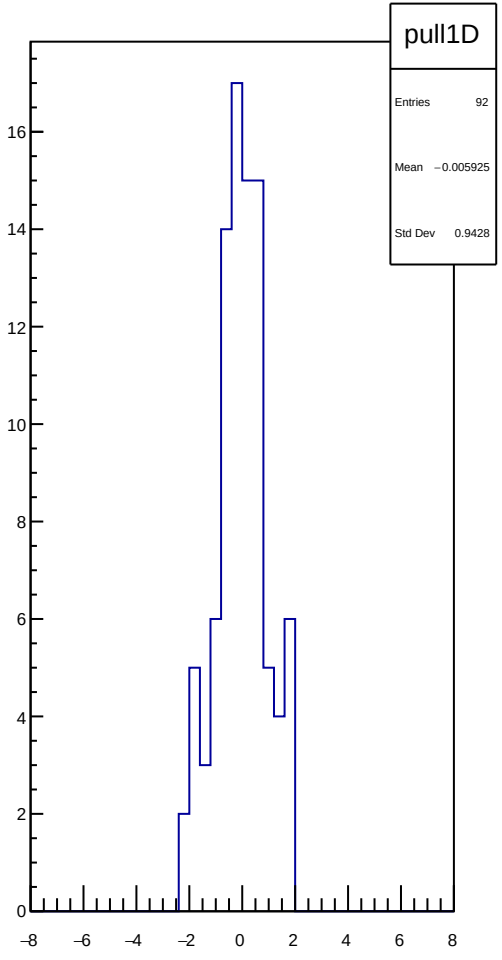

pull1D
Entries 92
Mean 0.005089
Std Dev 0.8461

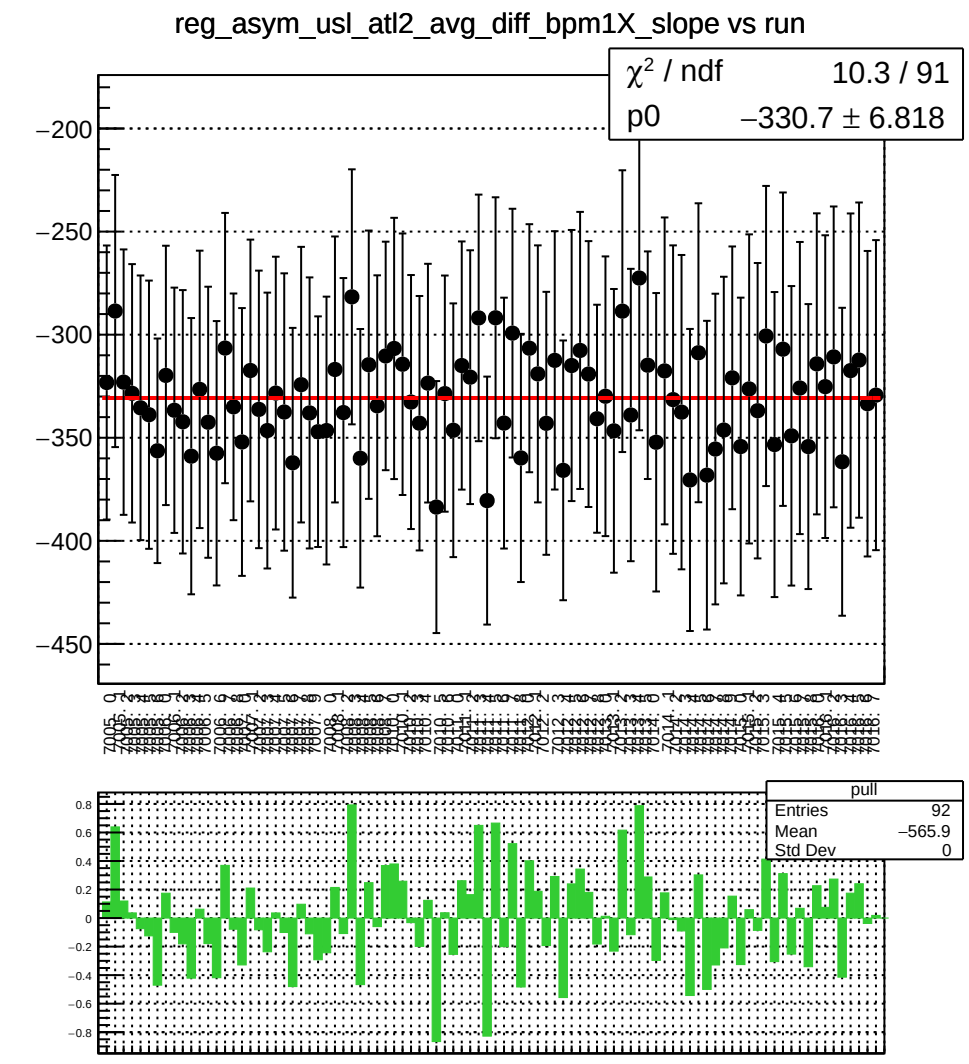

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.44 / 91
p0 −21.92 ± 1.394
pull
Entries 92
Mean 2689
Std Dev 0

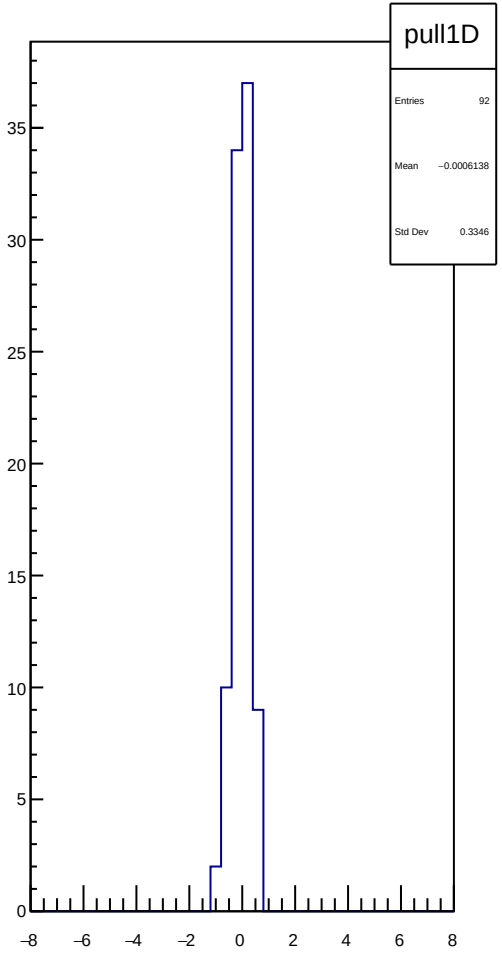

pull1D
Entries 92
Mean 0.001698
Std Dev 0.9292

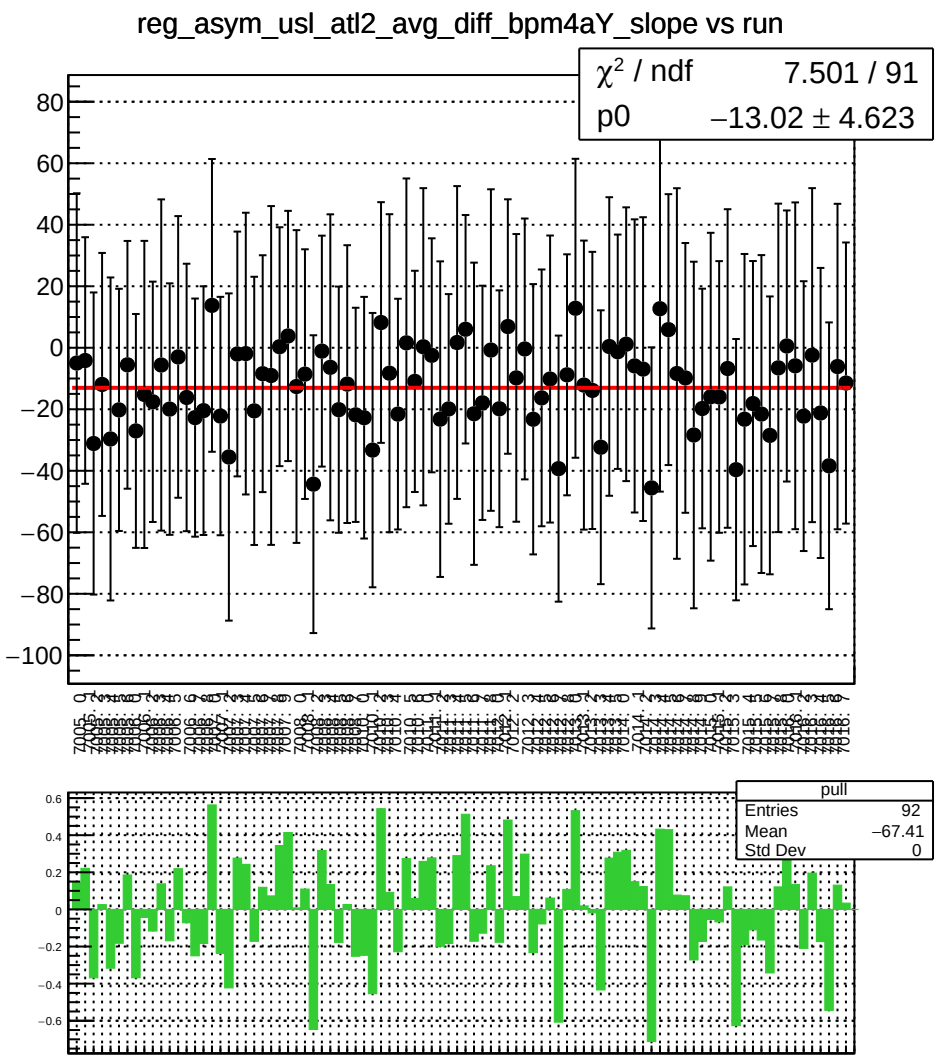

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.71 / 91
p0 18.76 ± 1.072
pull
Entries 92
Mean 1005
Std Dev 0
pull1D
Entries 92
Mean −0.006671
Std Dev 0.8951

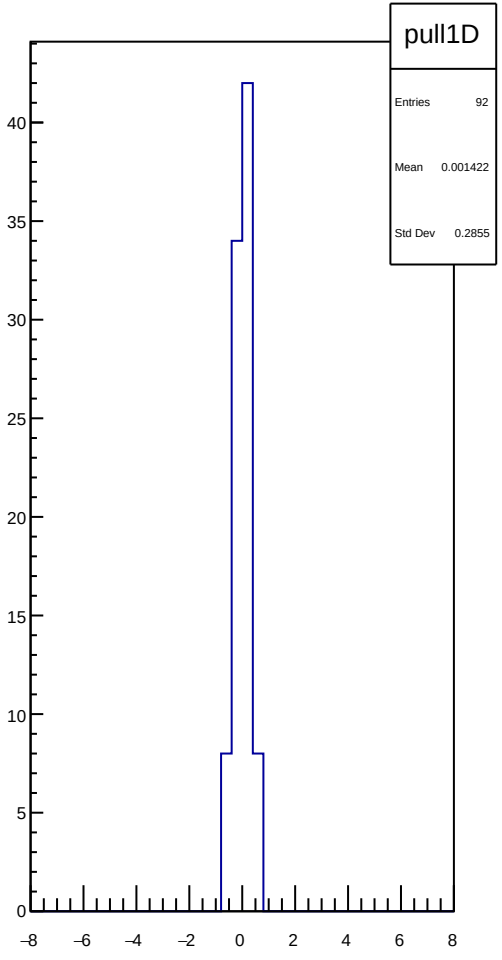

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 81.79 / 91
p0 −9.803 ± 0.04817
pull
Entries 92
Mean 76.37
Std Dev 40.21

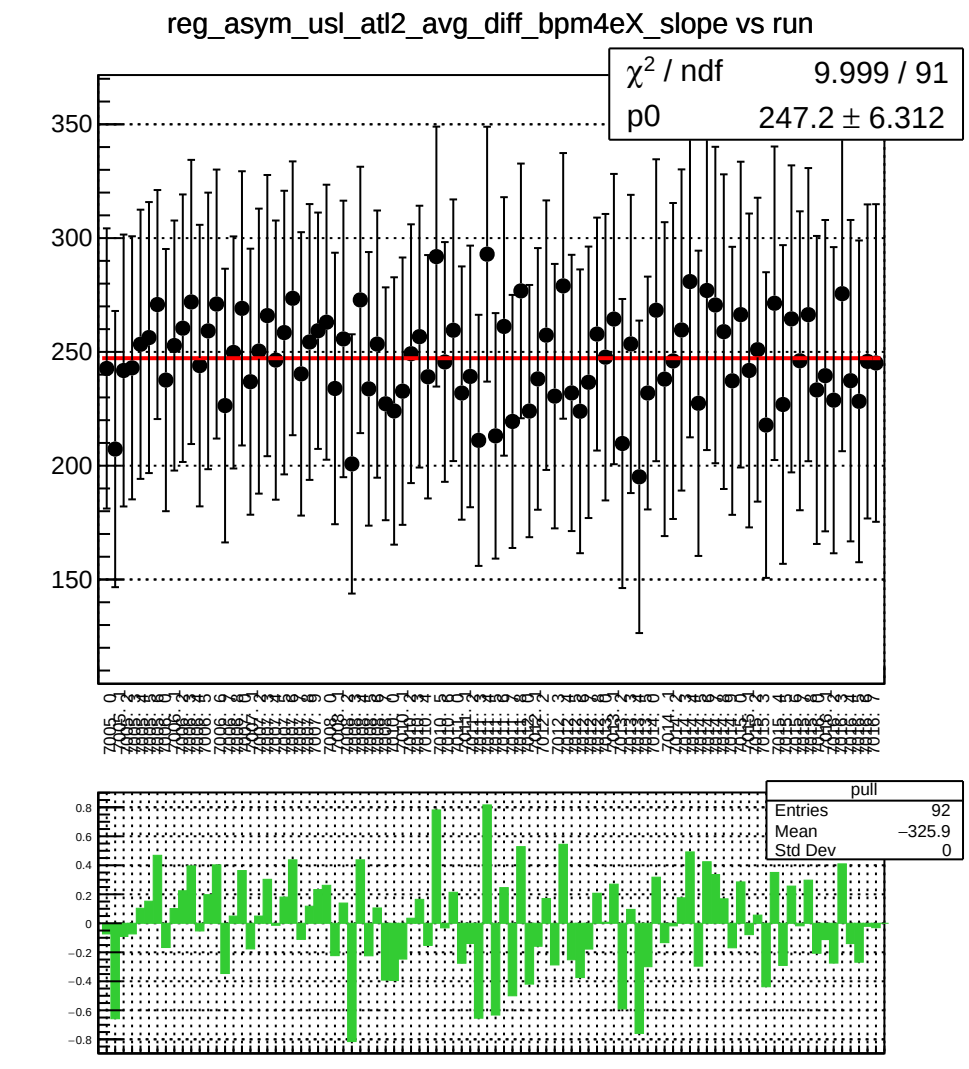

pull1D
Entries 92
Mean −0.005925
Std Dev 0.9428

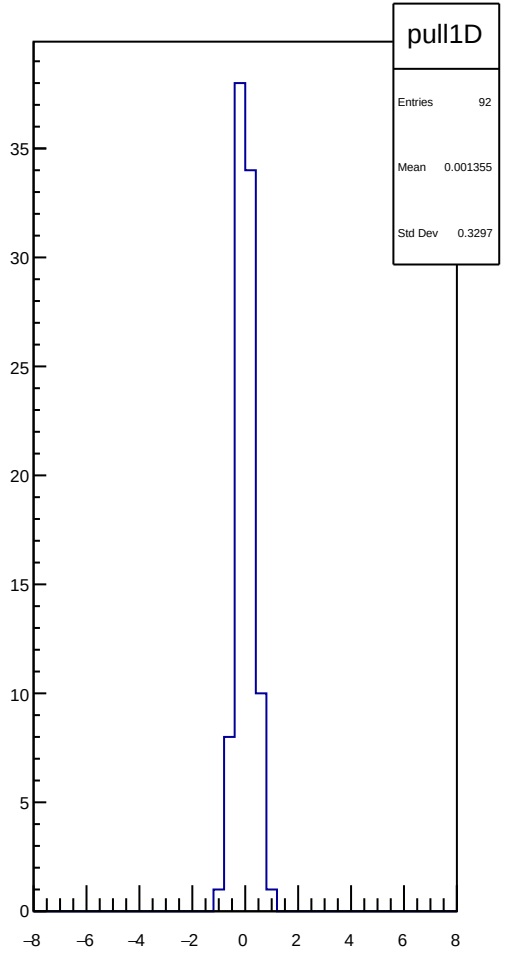

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.3 / 91
p0 −330.7 ± 6.818
pull
Entries 92
Mean −565.9
Std Dev 0

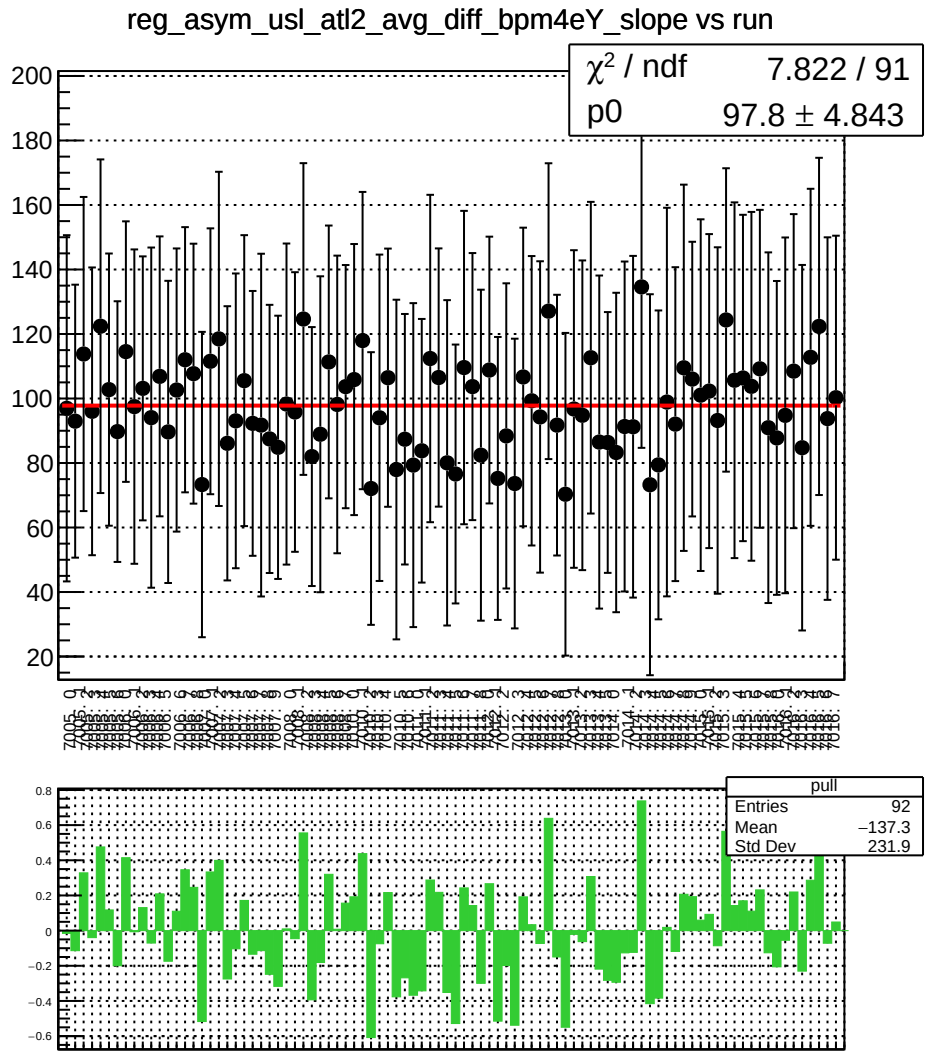

pull1D
Entries 92
Mean −0.0006138
Std Dev 0.3346

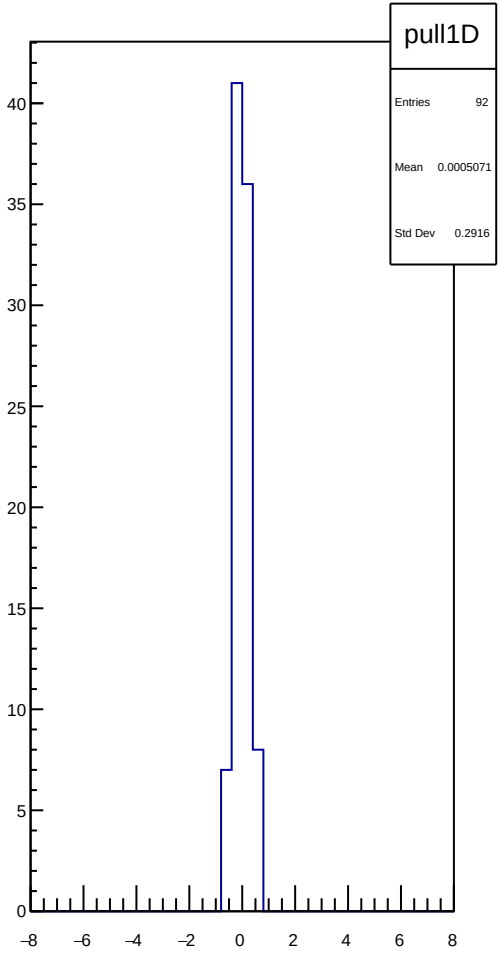

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.501 / 91
p0 −13.02 ± 4.623
pull
Entries 92
Mean −67.41
Std Dev 0

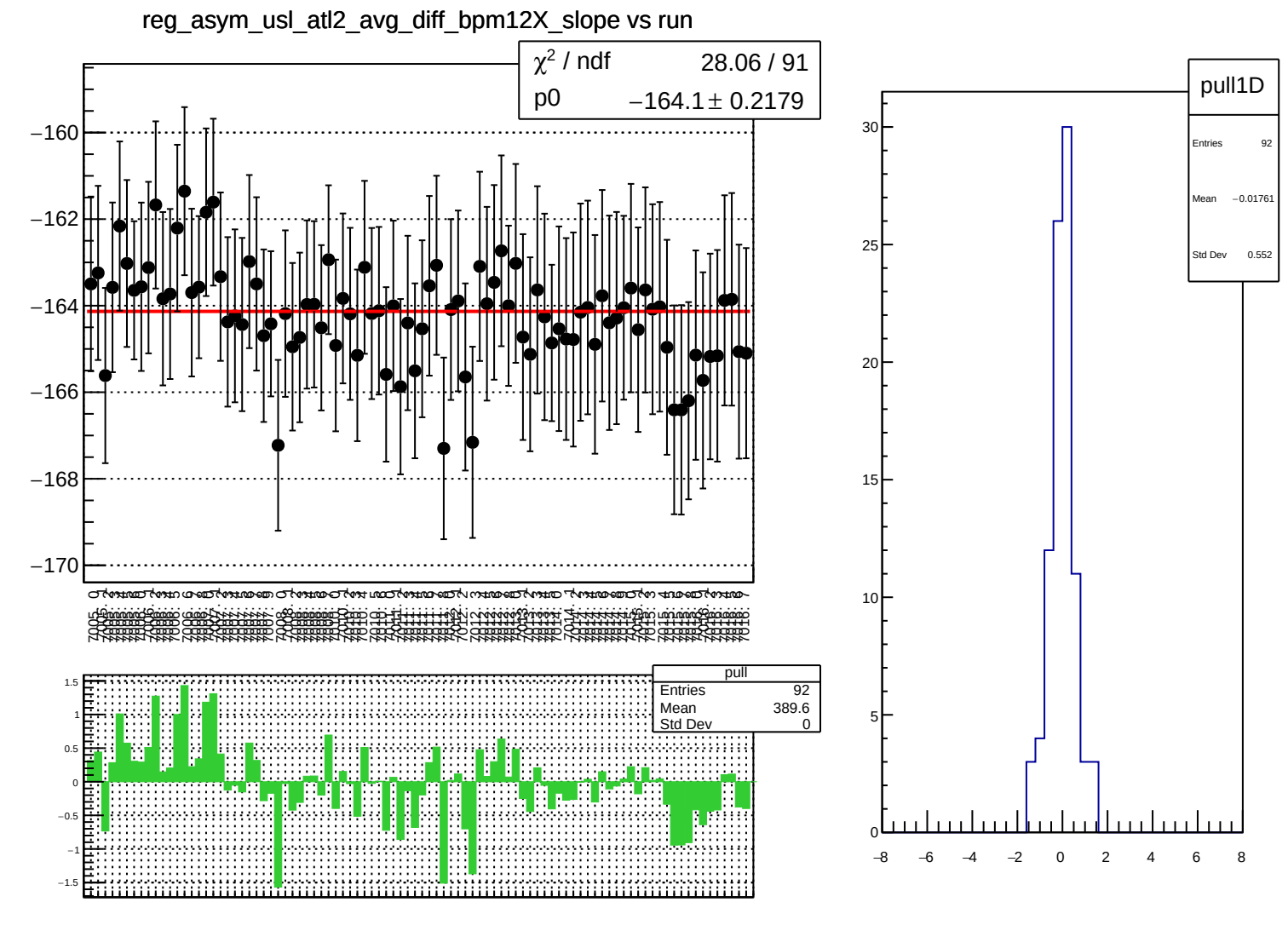

pull1D
Entries 92
Mean 0.001422
Std Dev 0.2855

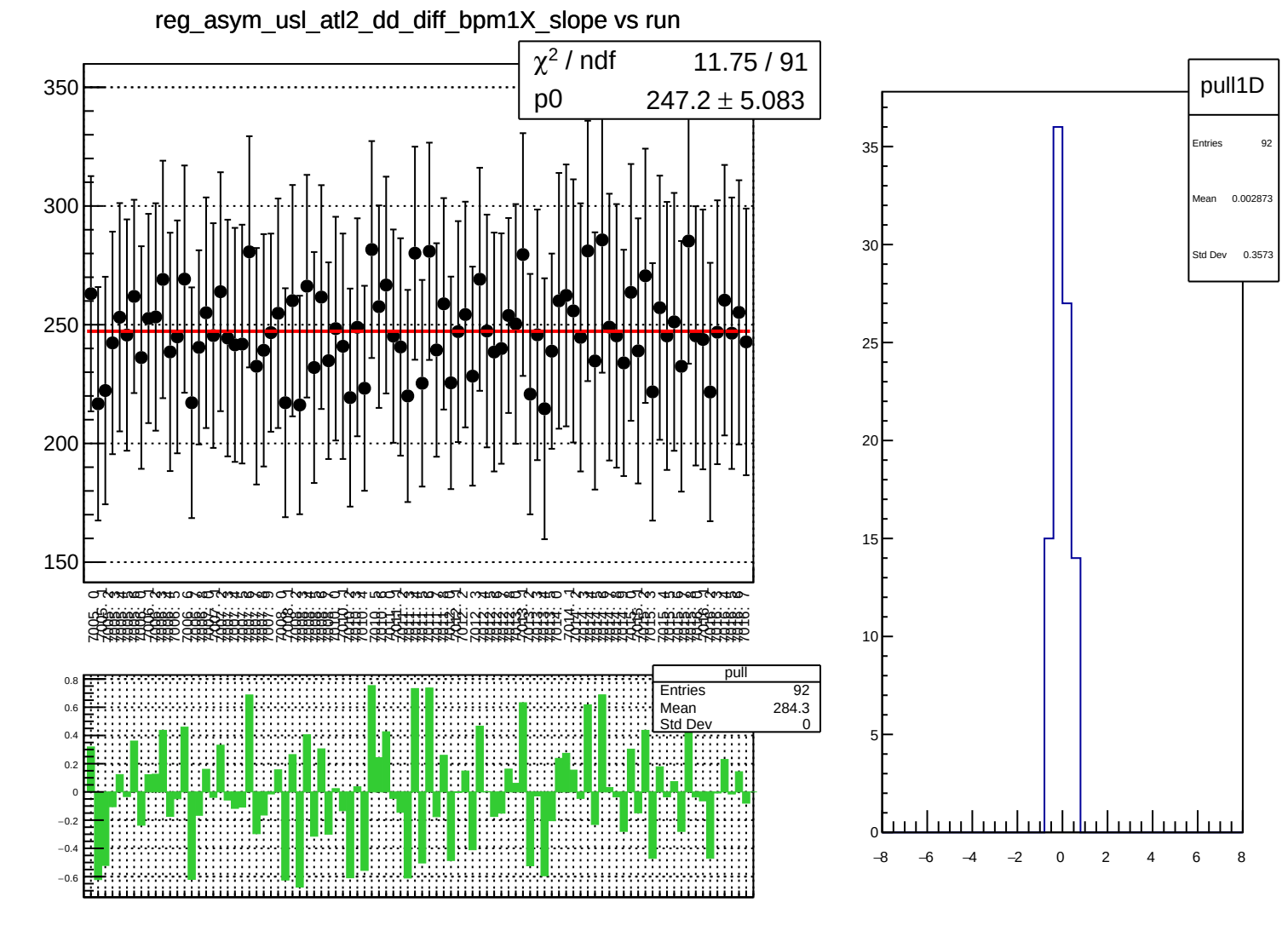

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.999 / 91
p0 247.2 ± 6.312
350
300
250
200
150
pull
Entries 92
Mean −325.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

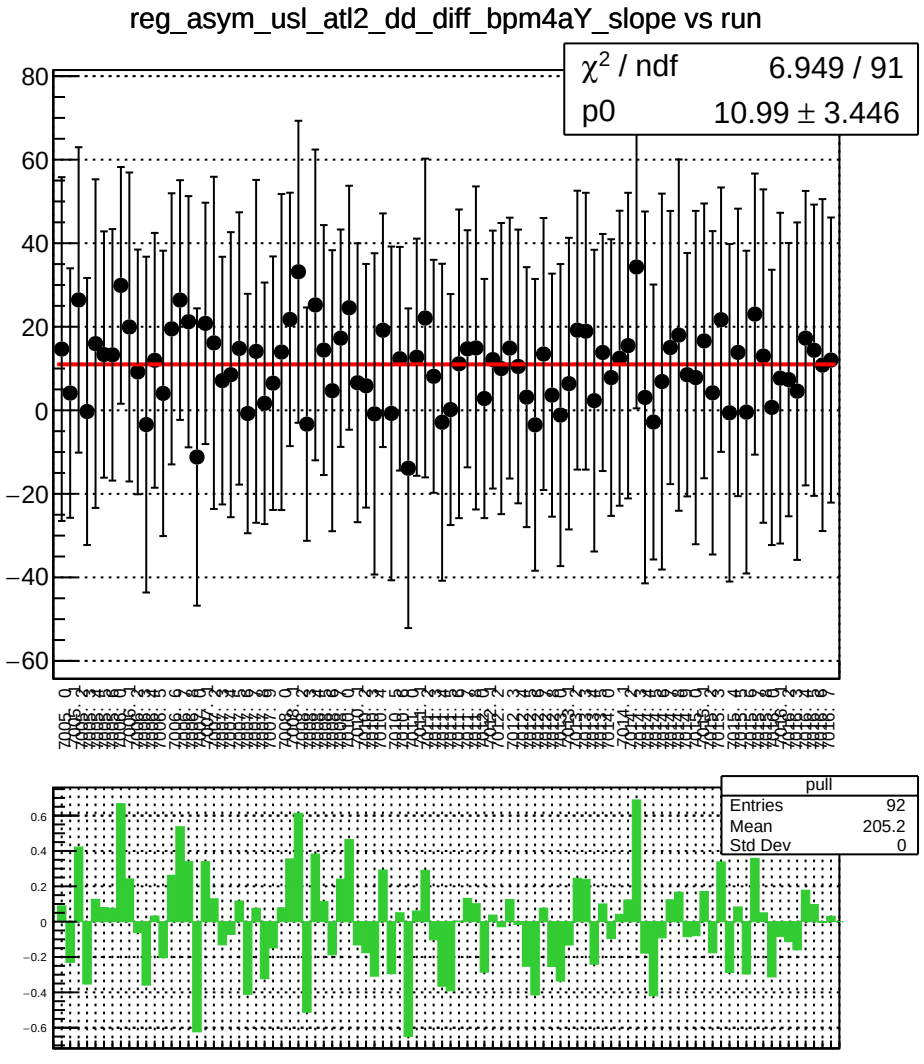

pull1D
Entries 92
Mean 0.001355
Std Dev 0.3297
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

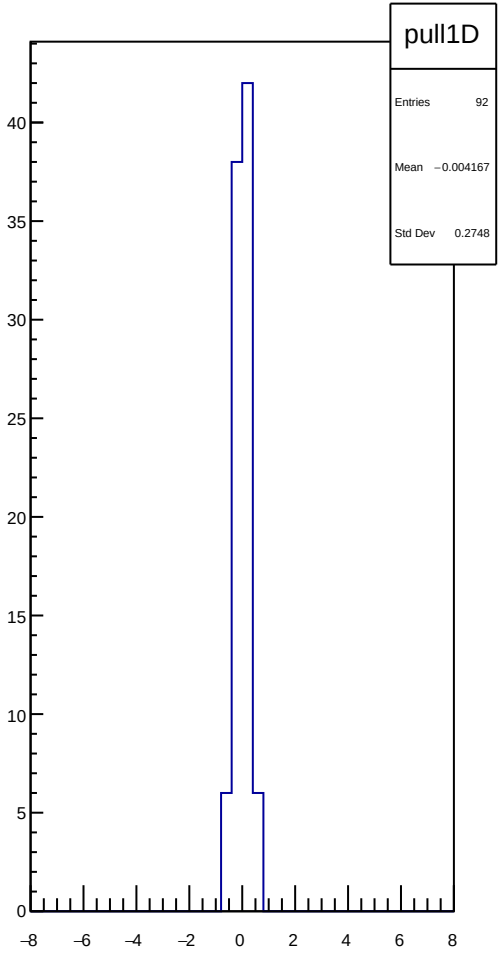

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.822 / 91
p0 97.8 ± 4.843
pull
Entries 92
Mean −137.3
Std Dev 231.9

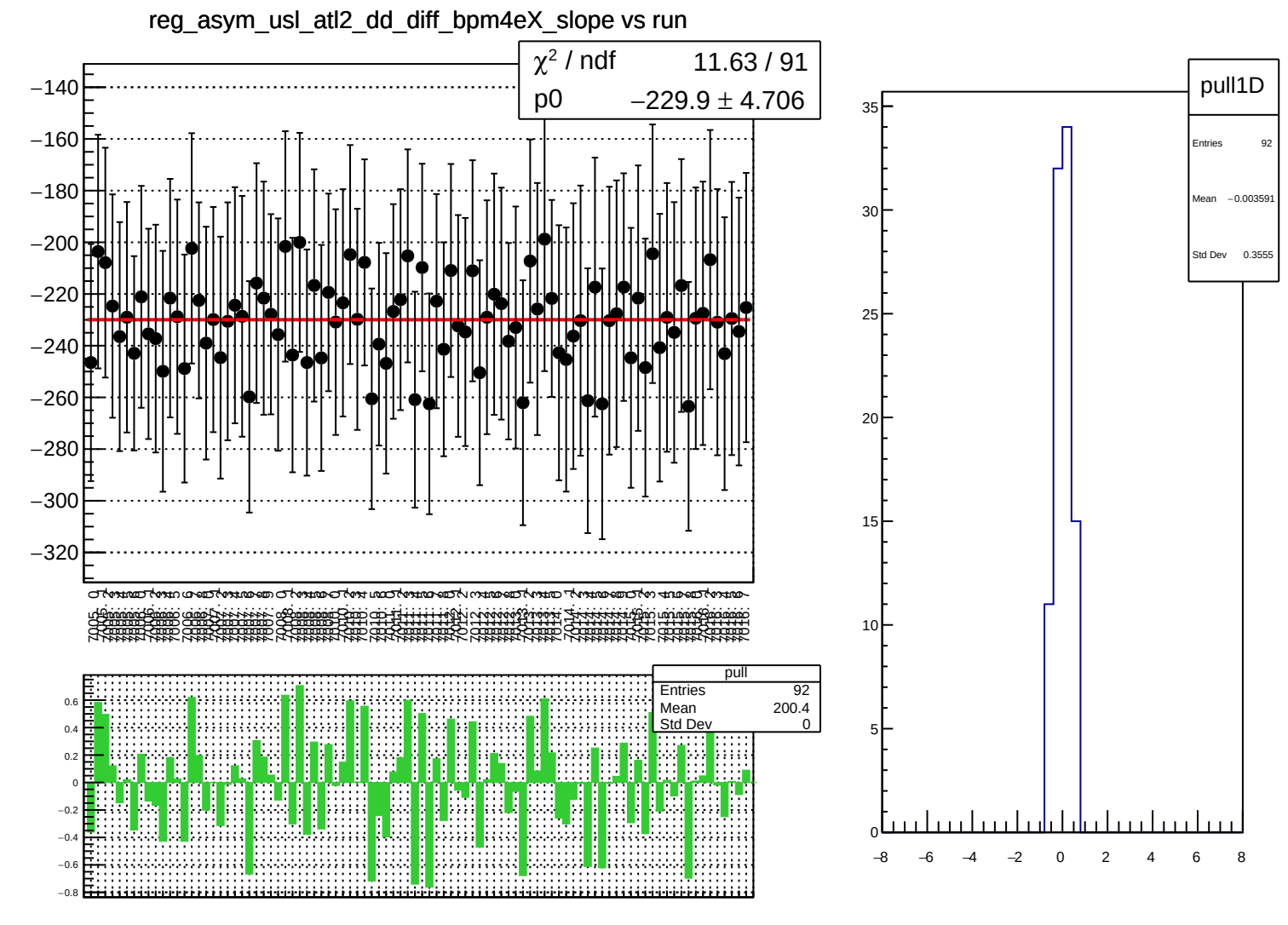

pull1D
Entries 92
Mean 0.0005071
Std Dev 0.2916

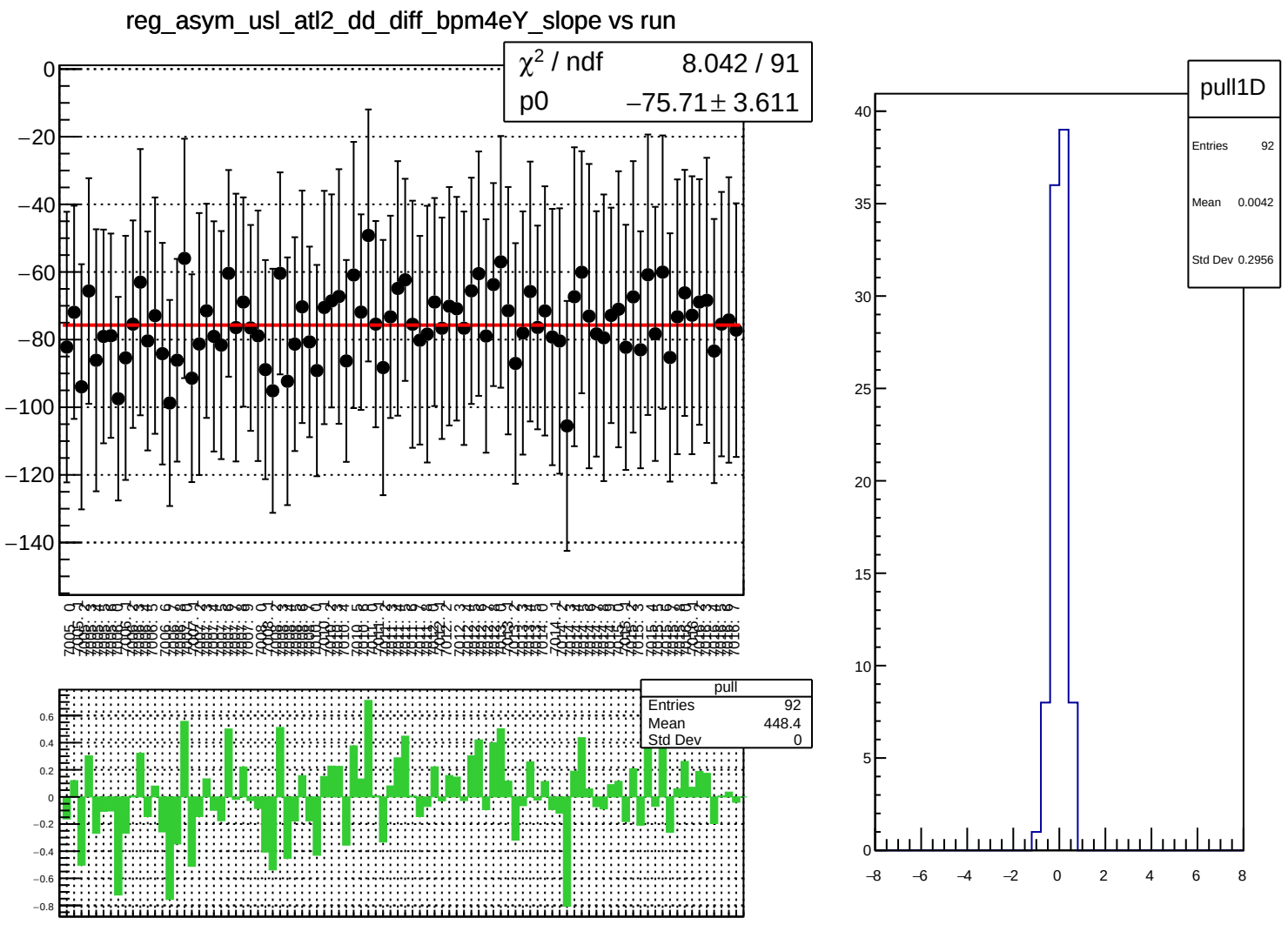

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 28.06 / 91
p0 −164.1 ± 0.2179
−160
−162
−164
−166
−168
−170
pull
Entries 92
Mean 389.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.01761
Std Dev 0.552
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

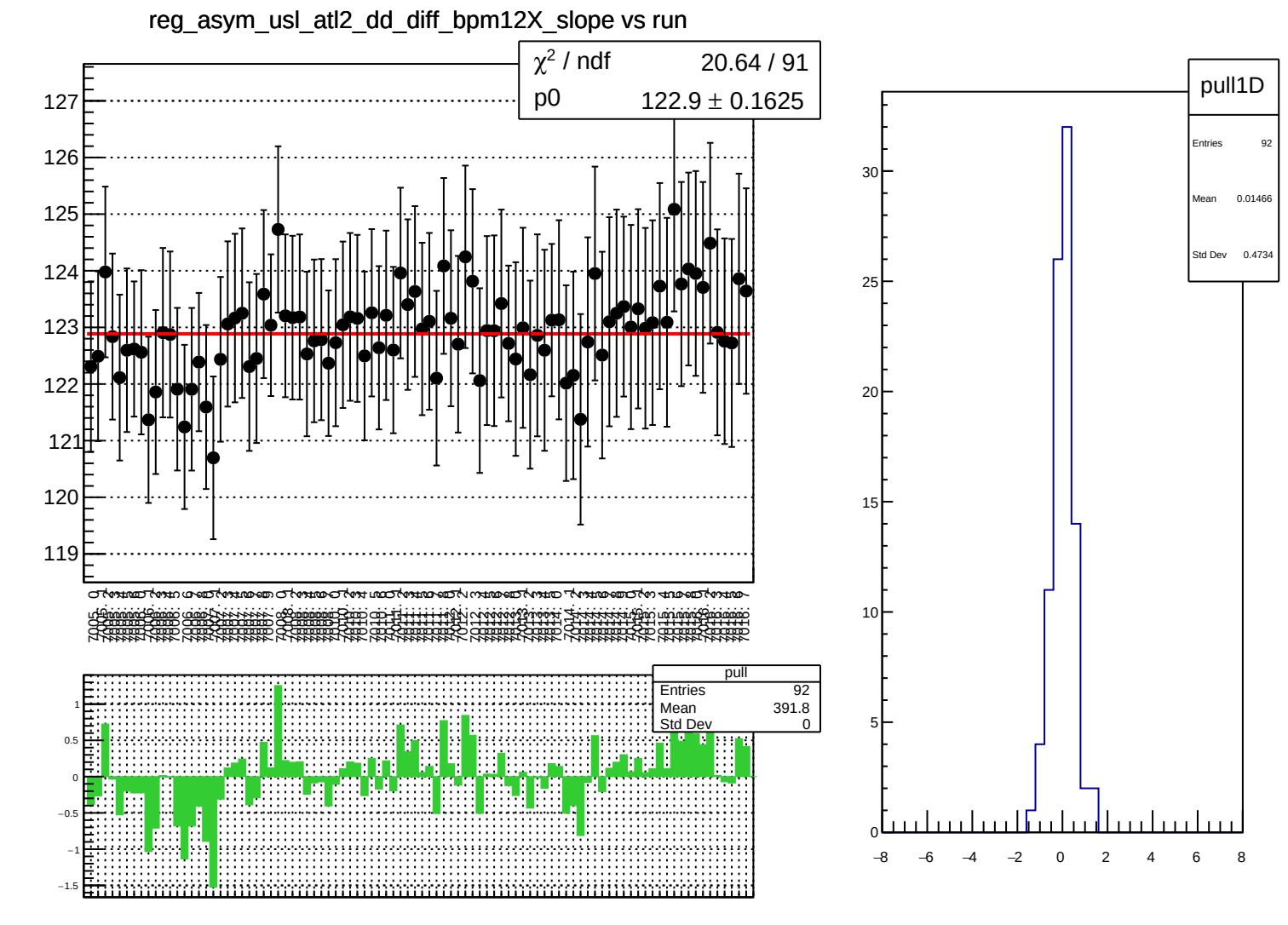

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.75 / 91
p0 247.2 ± 5.083
350
300
250
200
150
pull
Entries 92
Mean 284.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.002873
Std Dev 0.3573
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

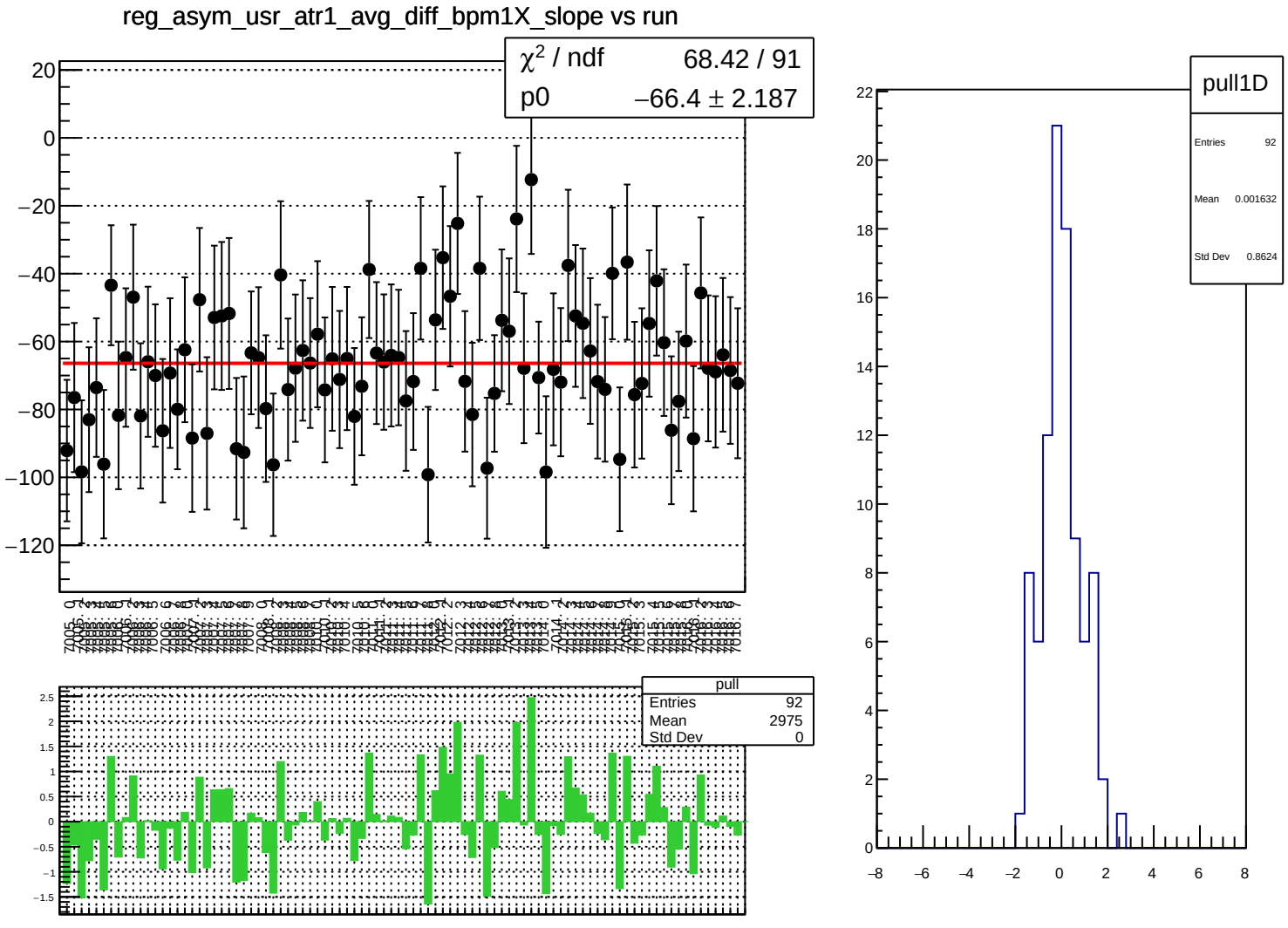

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.949 / 91
p0 10.99 ± 3.446
pull
Entries 92
Mean 205.2
Std Dev 0

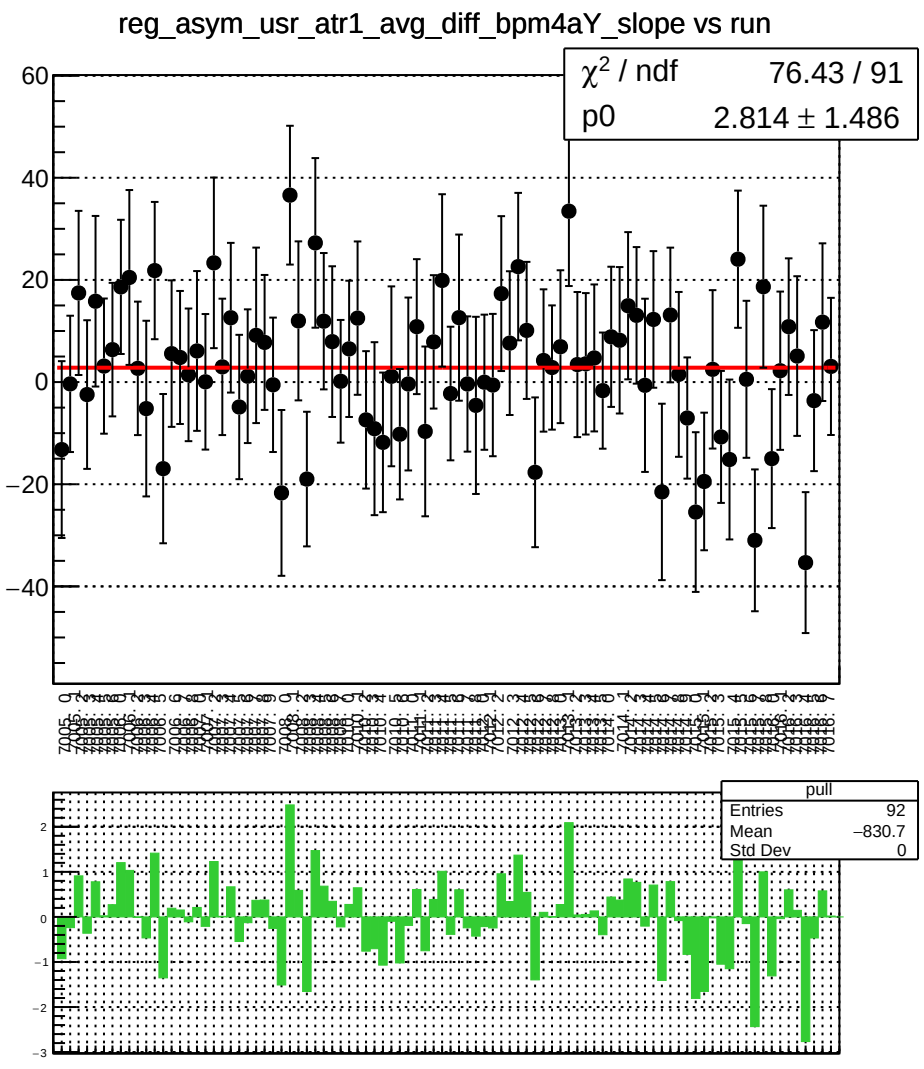

pull1D
Entries 92
Mean −0.004167
Std Dev 0.2748

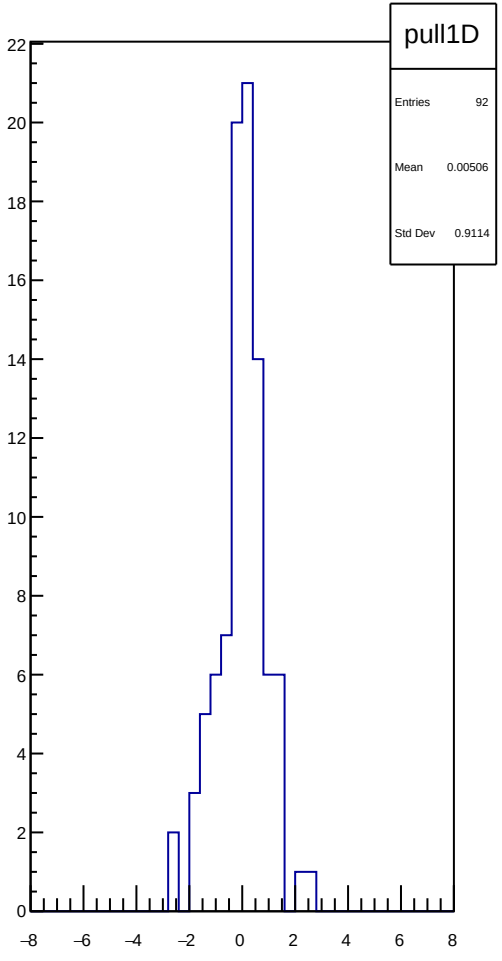

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.63 / 91
p0 −229.9 ± 4.706
pull
Entries 92
Mean 200.4
Std Dev 0
pull1D
Entries 92
Mean −0.003591
Std Dev 0.3555

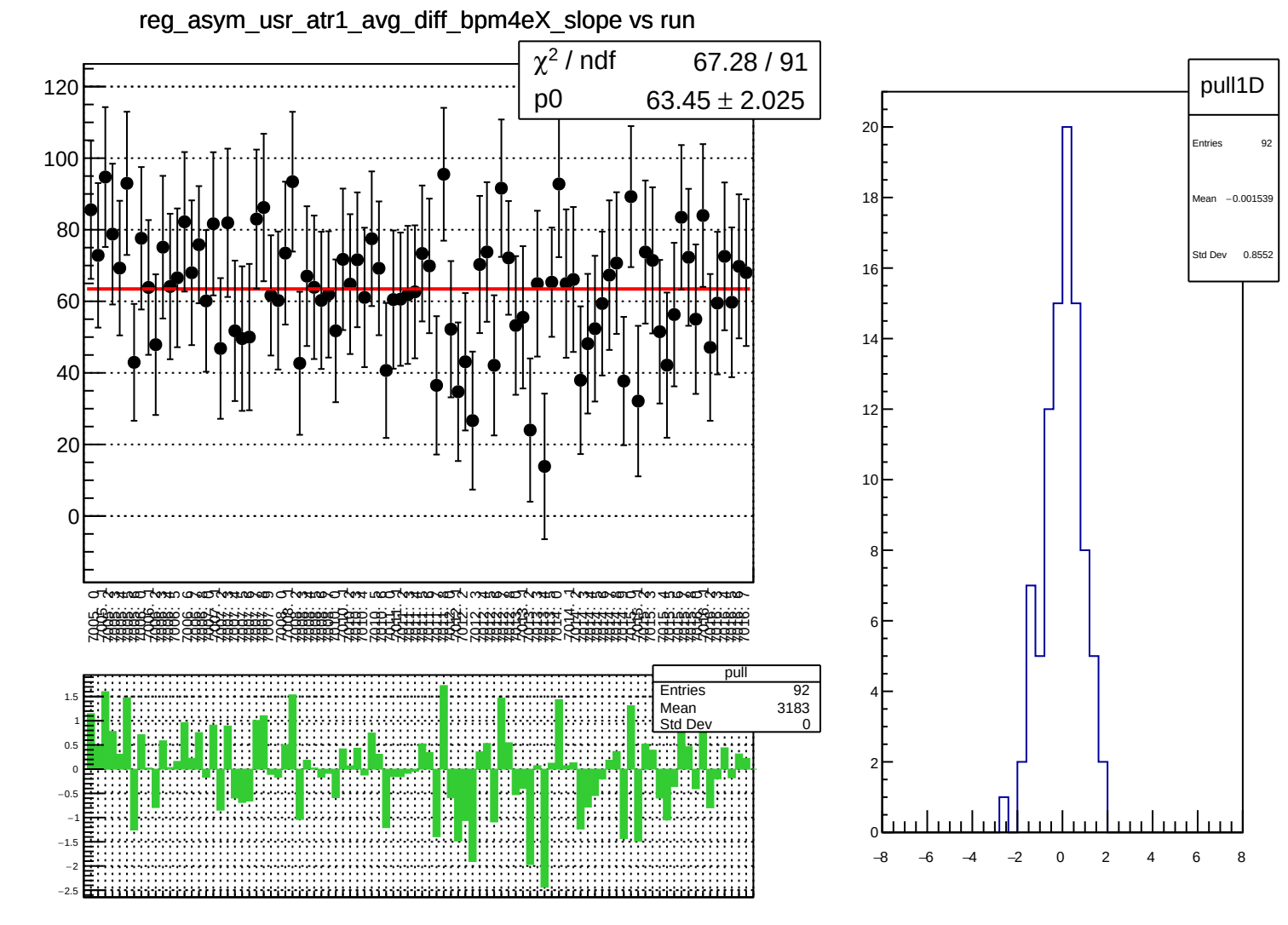

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.042 / 91
p0 −75.71 ± 3.611
pull
Entries 92
Mean 448.4
Std Dev 0
pull1D
Entries 92
Mean 0.0042
Std Dev 0.2956

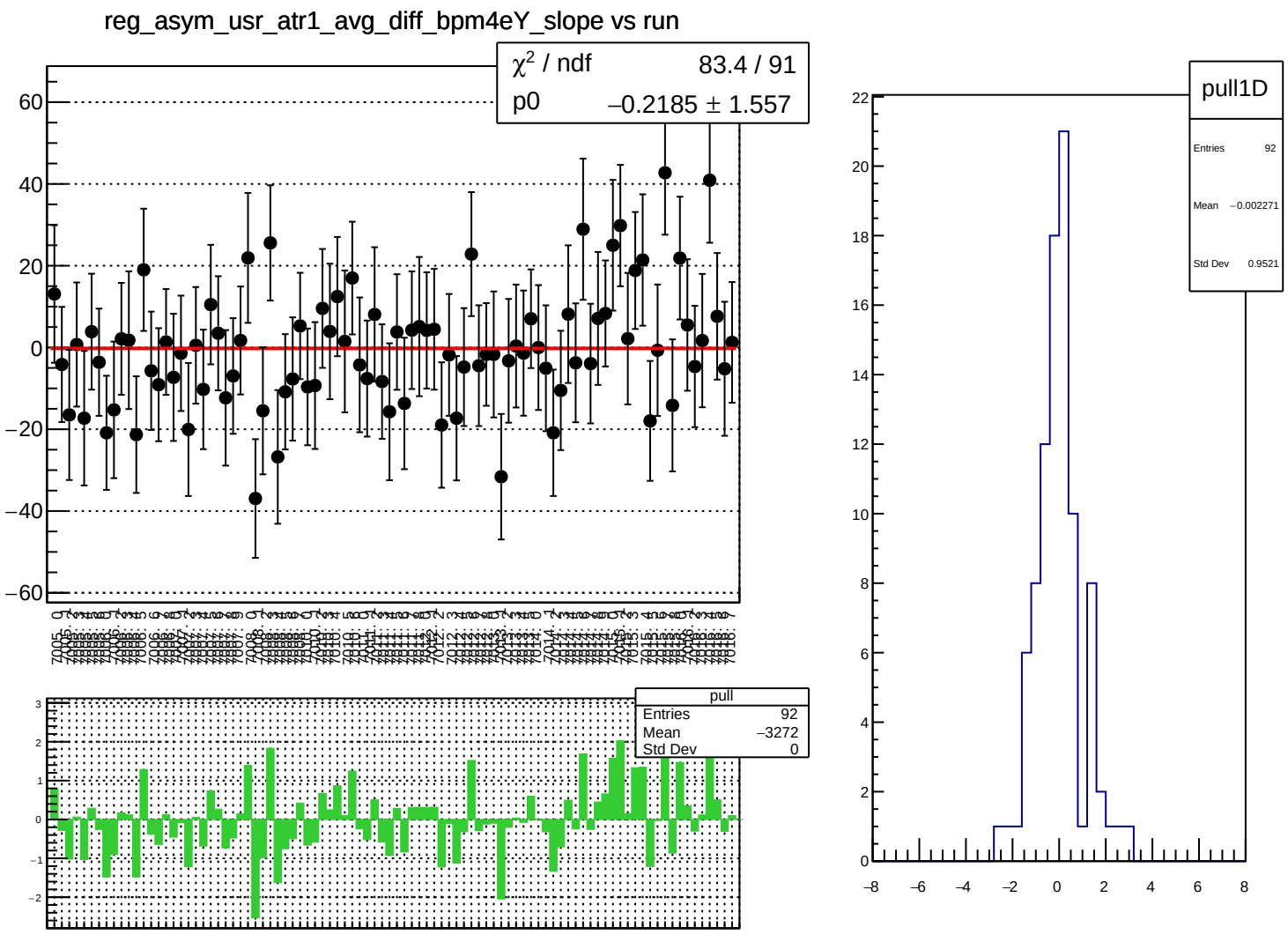

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 20.64 / 91
p0 122.9 ± 0.1625
pull
Entries 92
Mean 391.8
Std Dev 0
pull1D
Entries 92
Mean 0.01466
Std Dev 0.4734

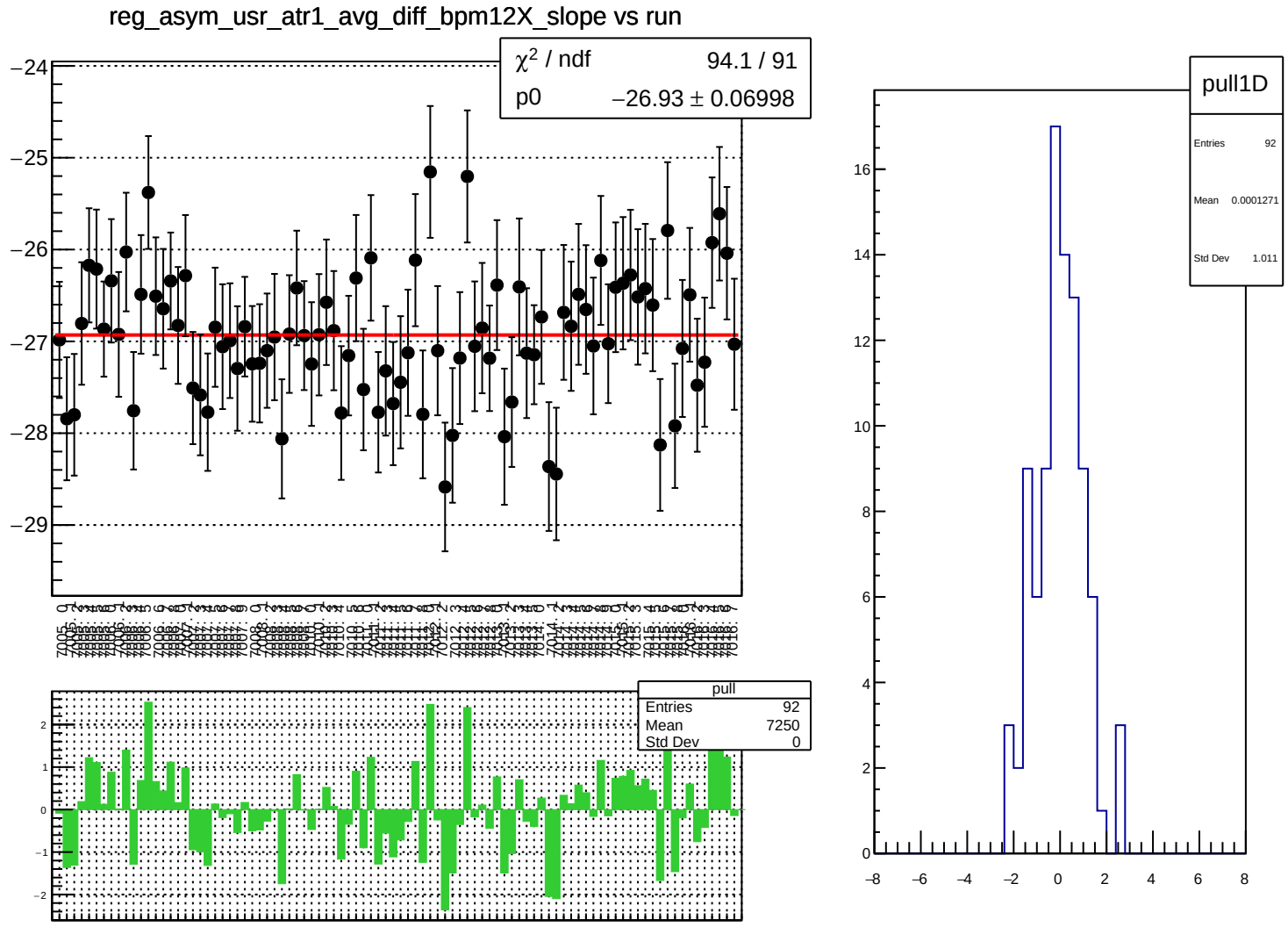

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 68.42 / 91
p0 −66.4 ± 2.187
pull
Entries 92
Mean 2975
Std Dev 0
pull1D
Entries 92
Mean 0.001632
Std Dev 0.8624

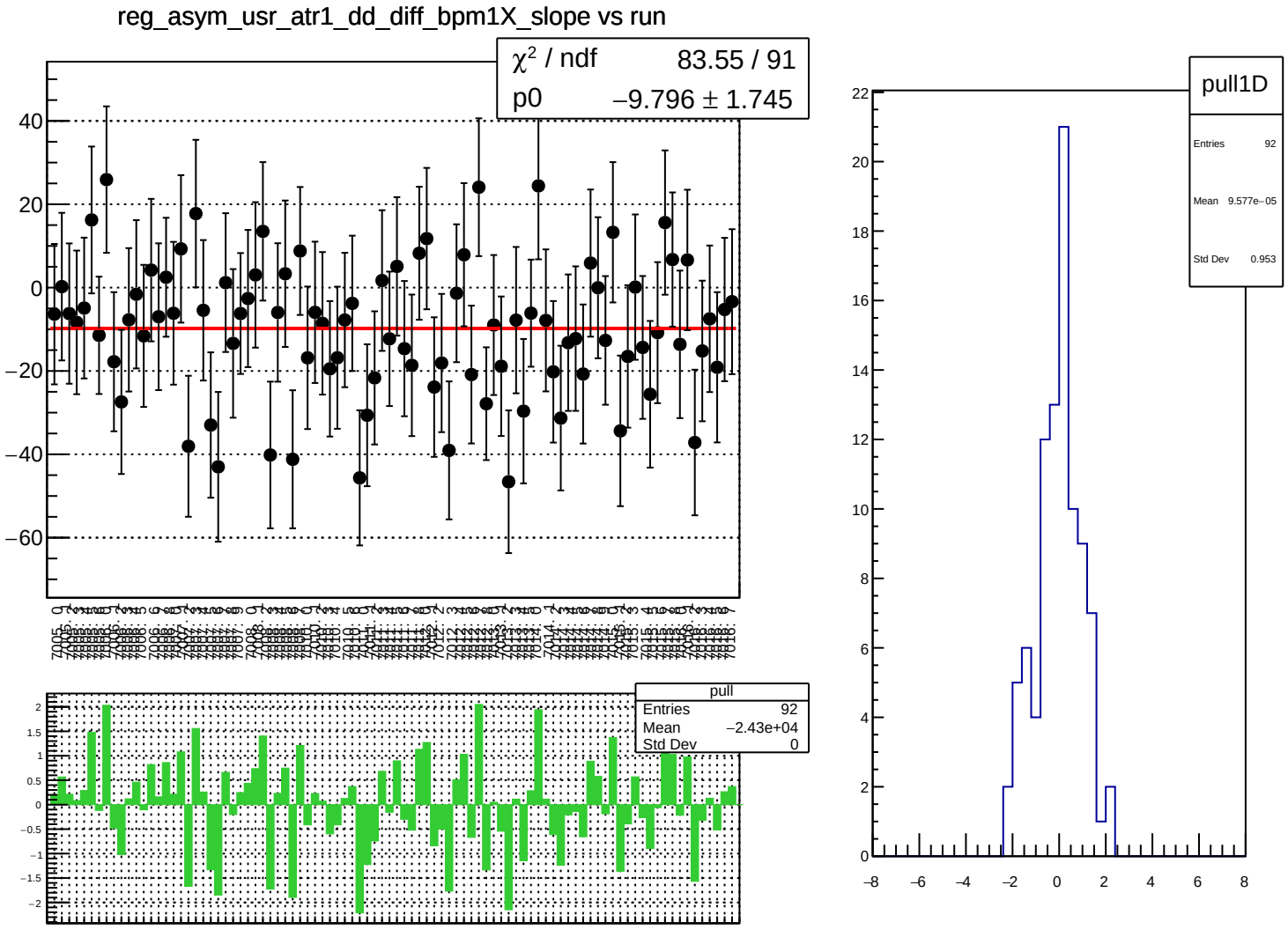

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.43 / 91
p0 2.814 ± 1.486
pull
Entries 92
Mean −830.7
Std Dev 0

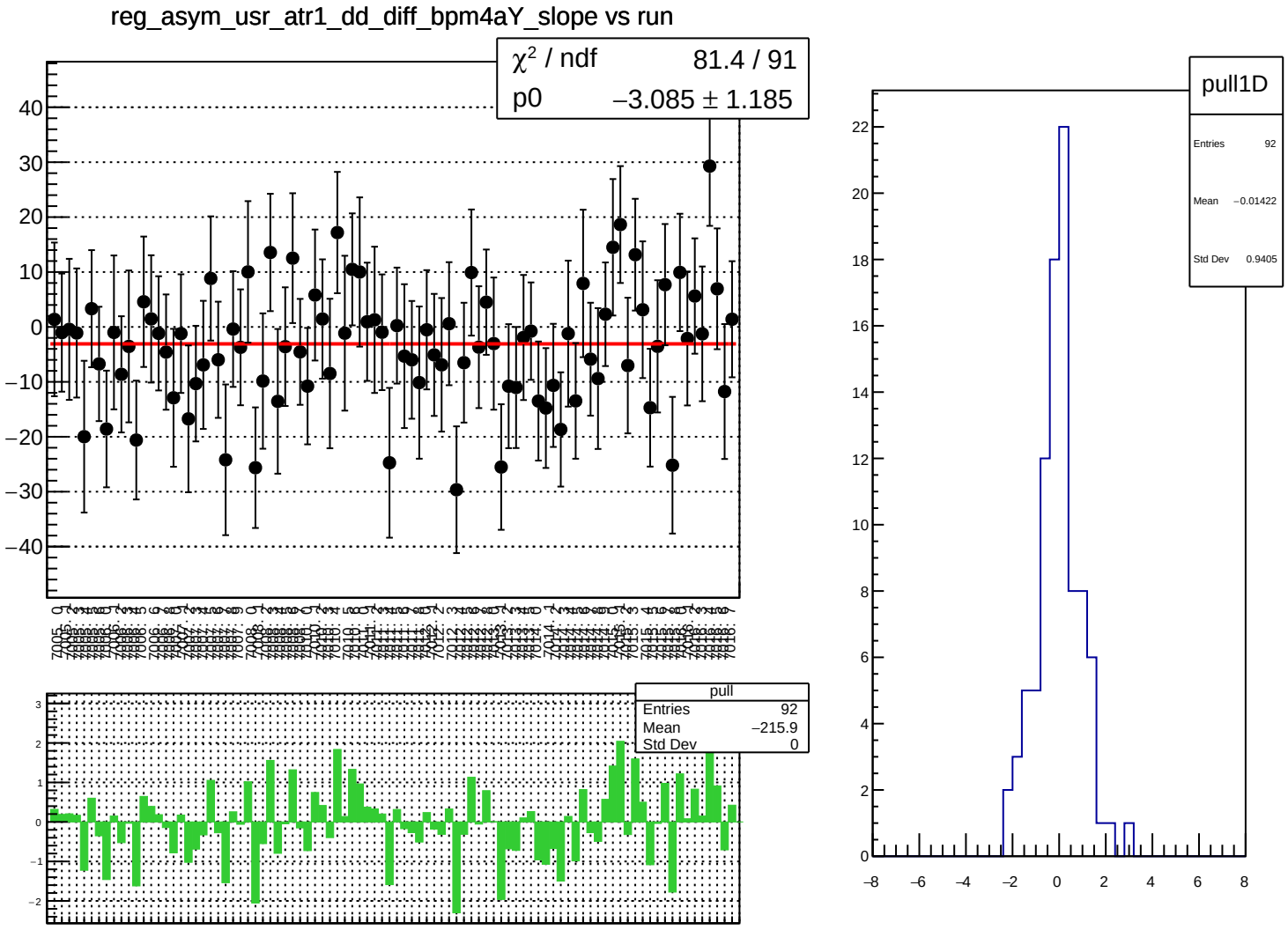

pull1D
Entries 92
Mean 0.00506
Std Dev 0.9114

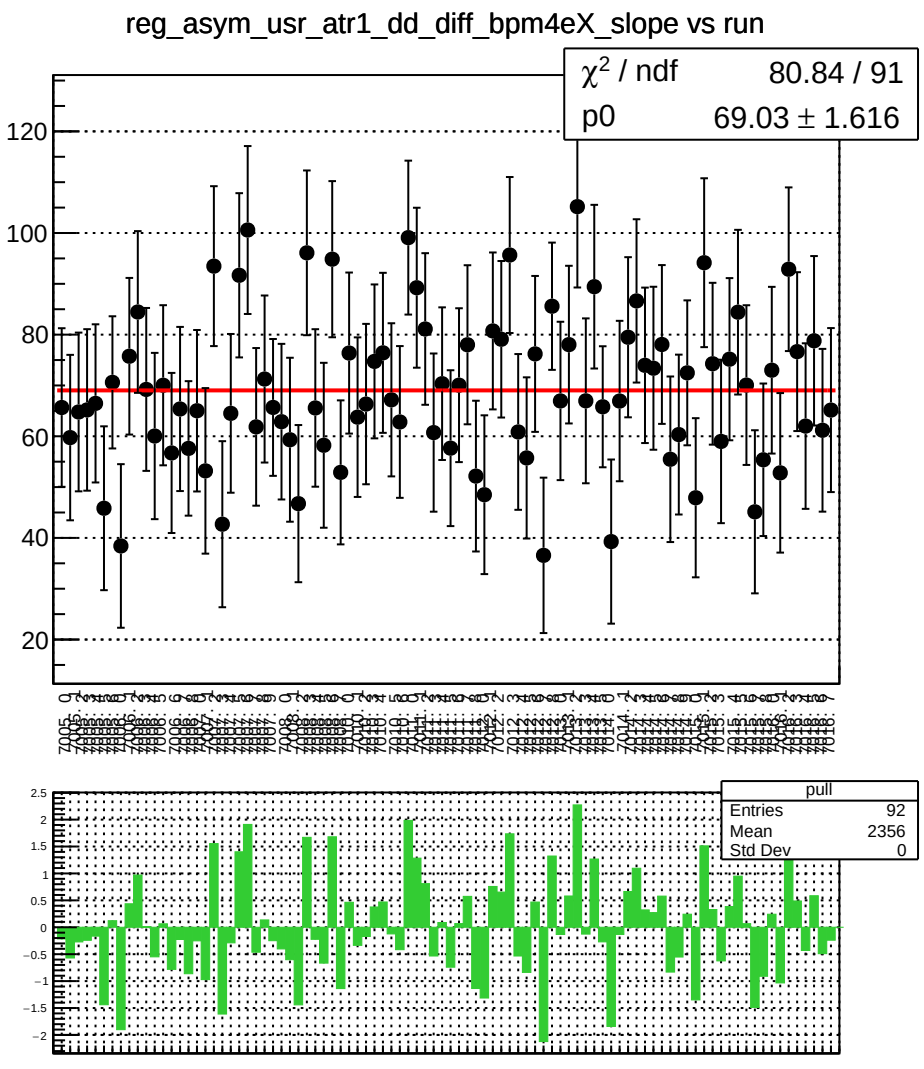

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.28 / 91
p0 63.45 ± 2.025
pull
Entries 92
Mean 3183
Std Dev 0
pull1D
Entries 92
Mean −0.001539
Std Dev 0.8552

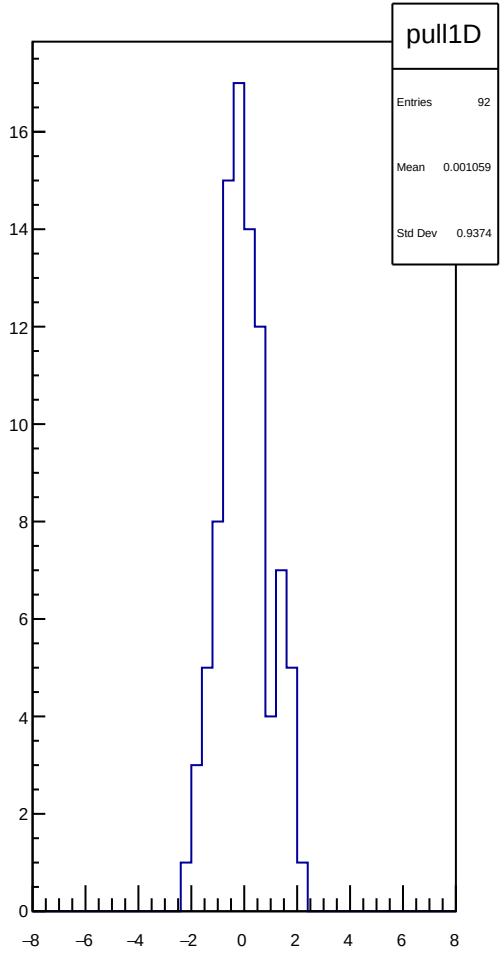

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.4 / 91
p0 −0.2185 ± 1.557
pull
Entries 92
Mean −3272
Std Dev 0
pull1D
Entries 92
Mean −0.002271
Std Dev 0.9521

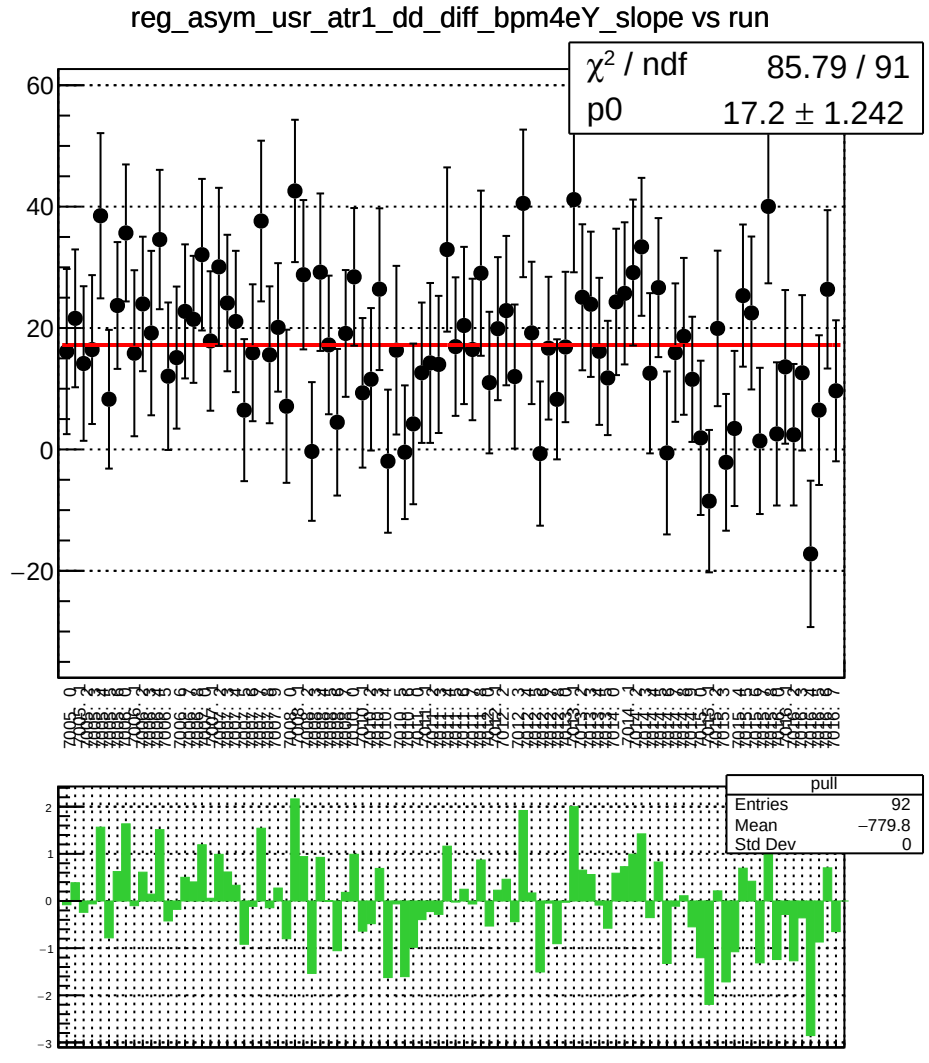

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 94.1 / 91
p0 −26.93 ± 0.06998
−24
−25
−26
−27
−28
−29
pull
Entries 92
Mean 7250
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0001271
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

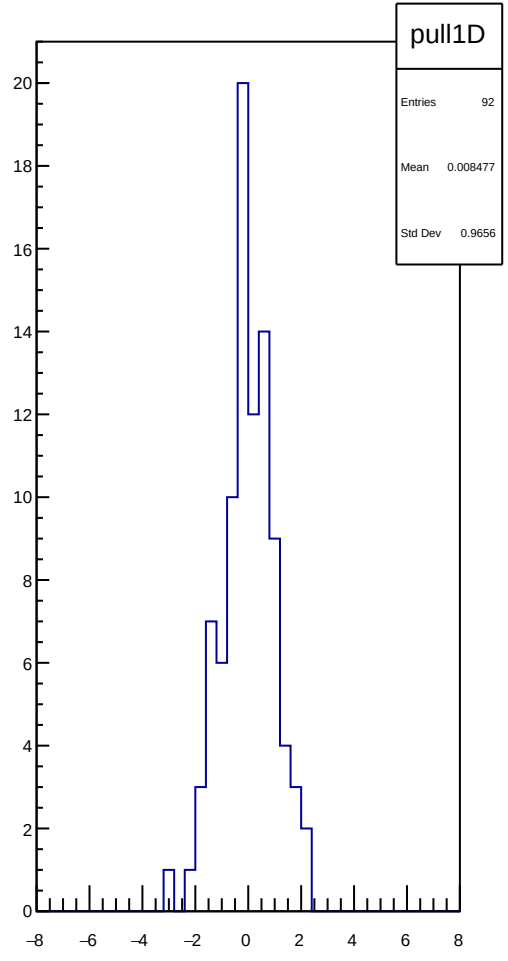

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 83.55 / 91
p0 −9.796 ± 1.745
pull
Entries 92
Mean −2.43e+04
Std Dev 0
pull1D
Entries 92
Mean 9.577e−05
Std Dev 0.953

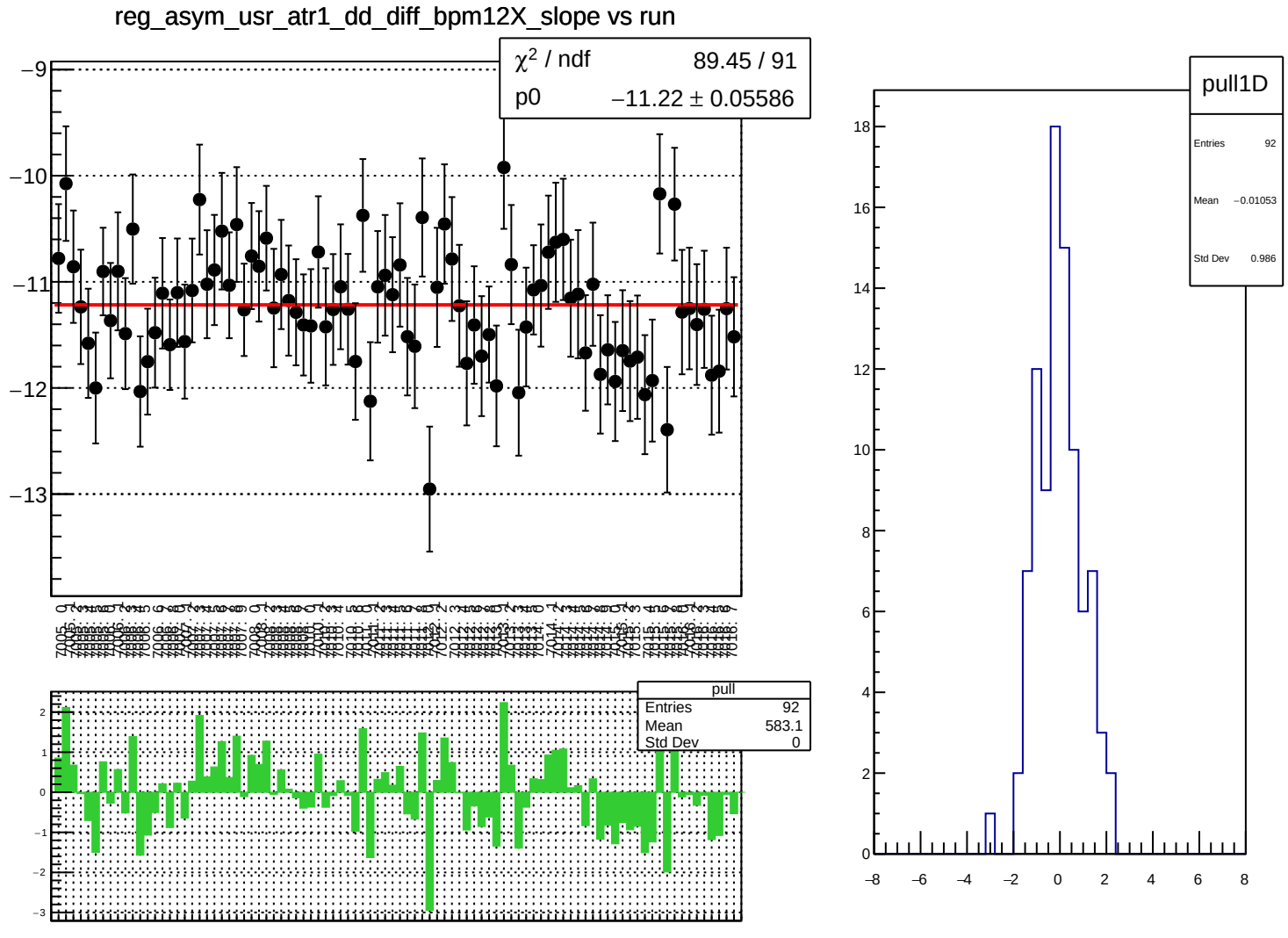

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.4 / 91
p0 −3.085 ± 1.185
pull
Entries 92
Mean −215.9
Std Dev 0
pull1D
Entries 92
Mean −0.01422
Std Dev 0.9405

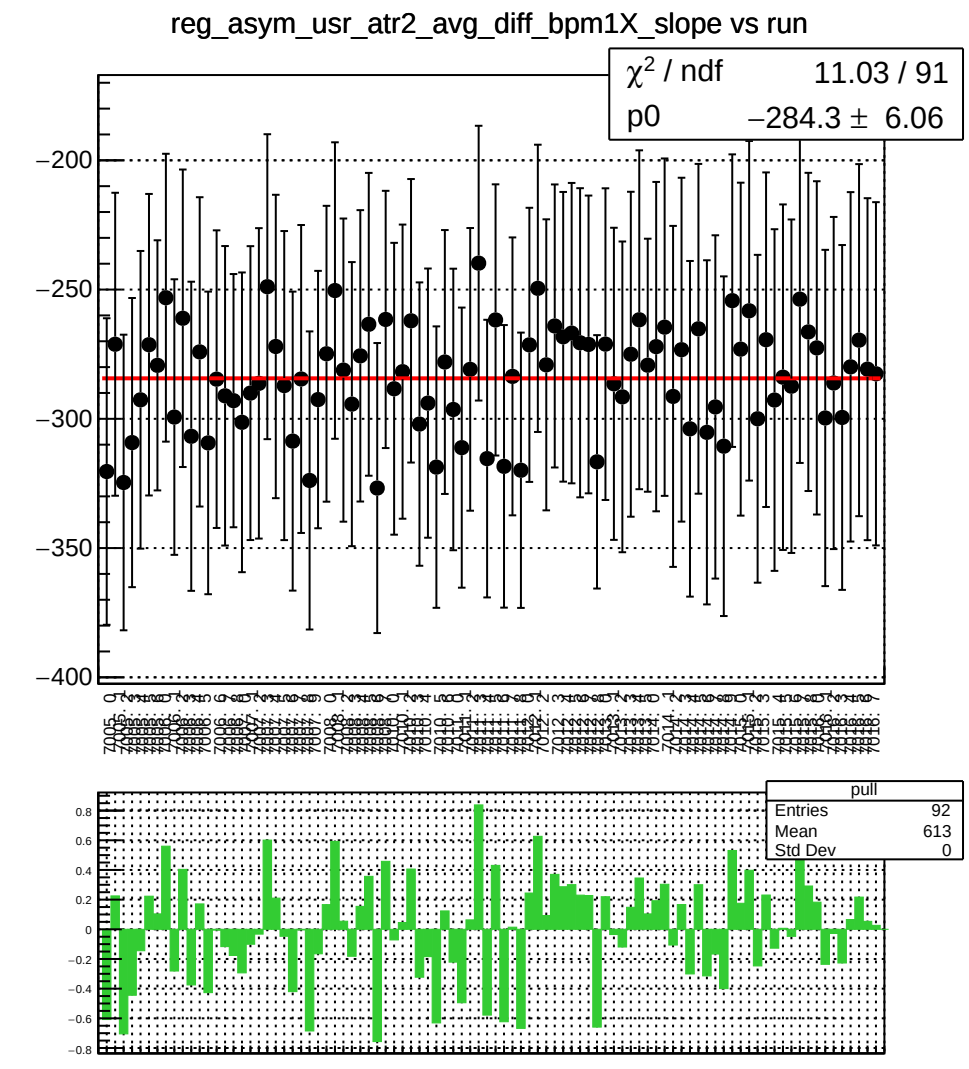

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 80.84 / 91
p0 69.03 ± 1.616
120
100
80
60
40
20
pull
Entries 92
Mean 2356
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

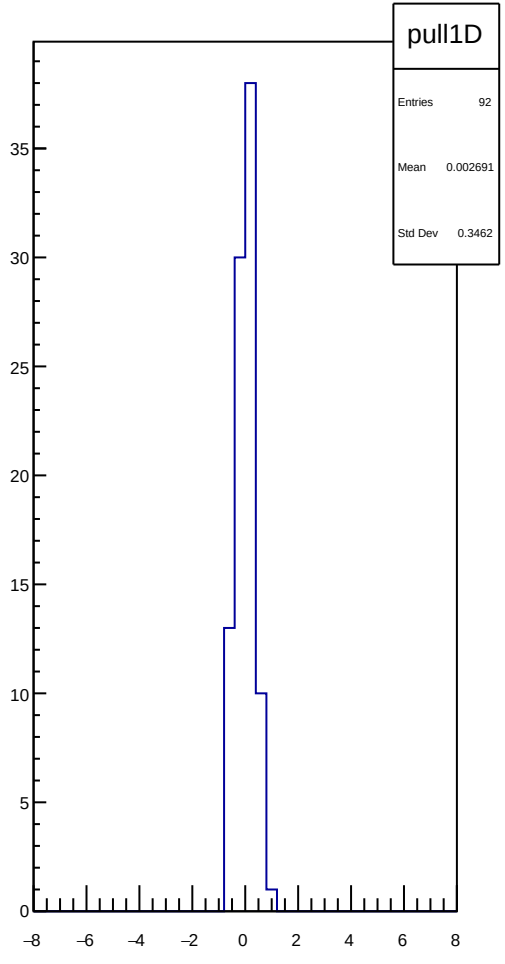

pull1D
Entries 92
Mean 0.001059
Std Dev 0.9374
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

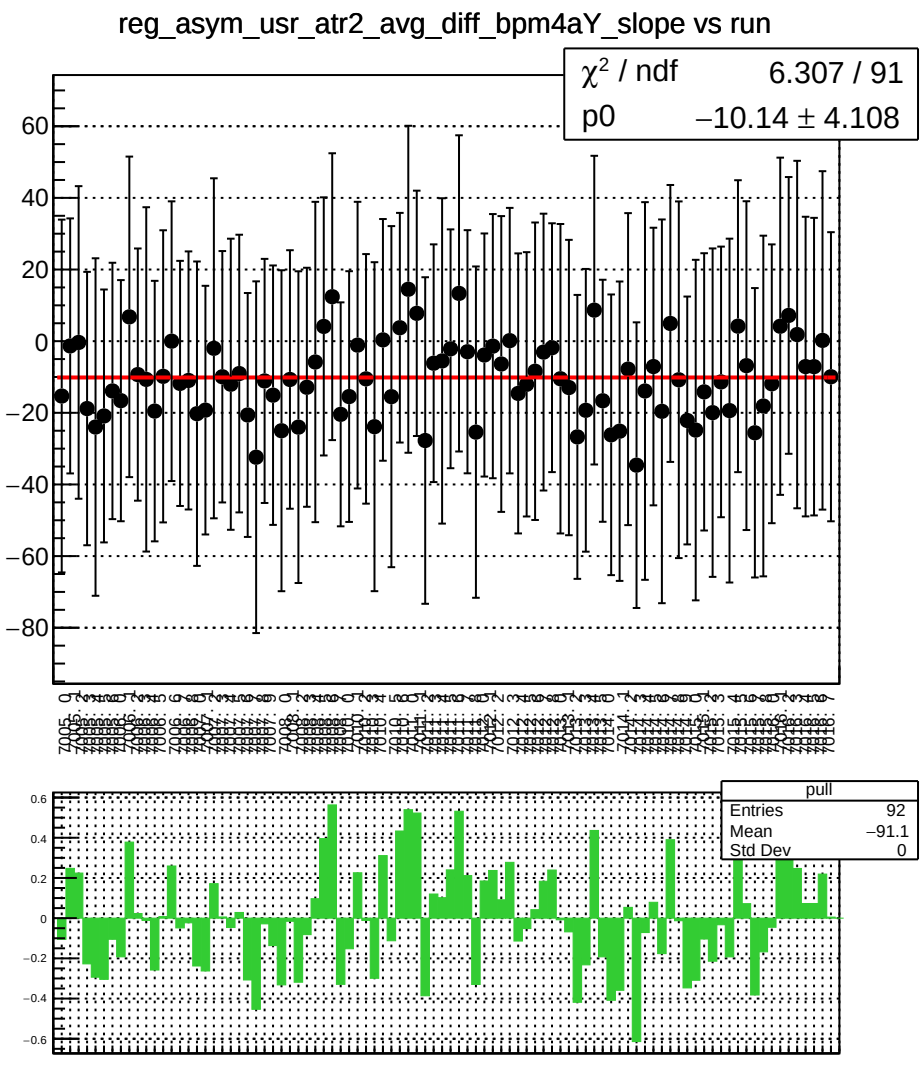

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.79 / 91
p0 17.2 ± 1.242
pull
Entries 92
Mean −779.8
Std Dev 0

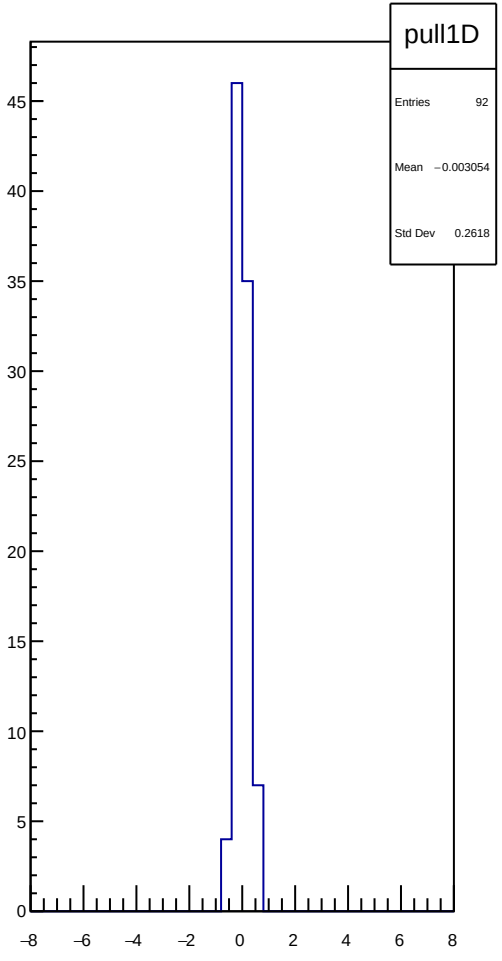

pull1D
Entries 92
Mean 0.008477
Std Dev 0.9656

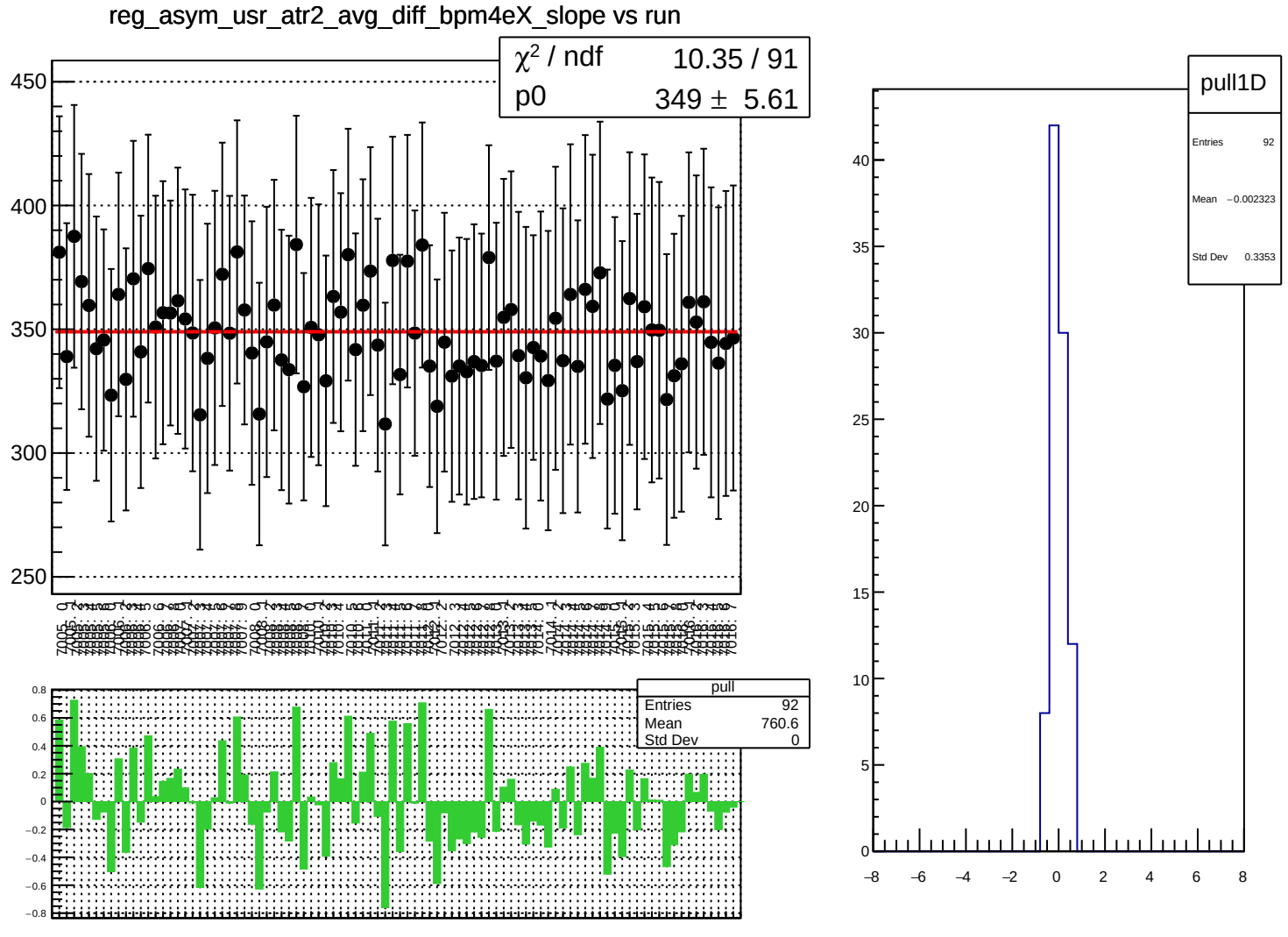

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 89.45 / 91
p0 −11.22 ± 0.05586
pull
Entries 92
Mean 583.1
Std Dev 0
pull1D
Entries 92
Mean −0.01053
Std Dev 0.986

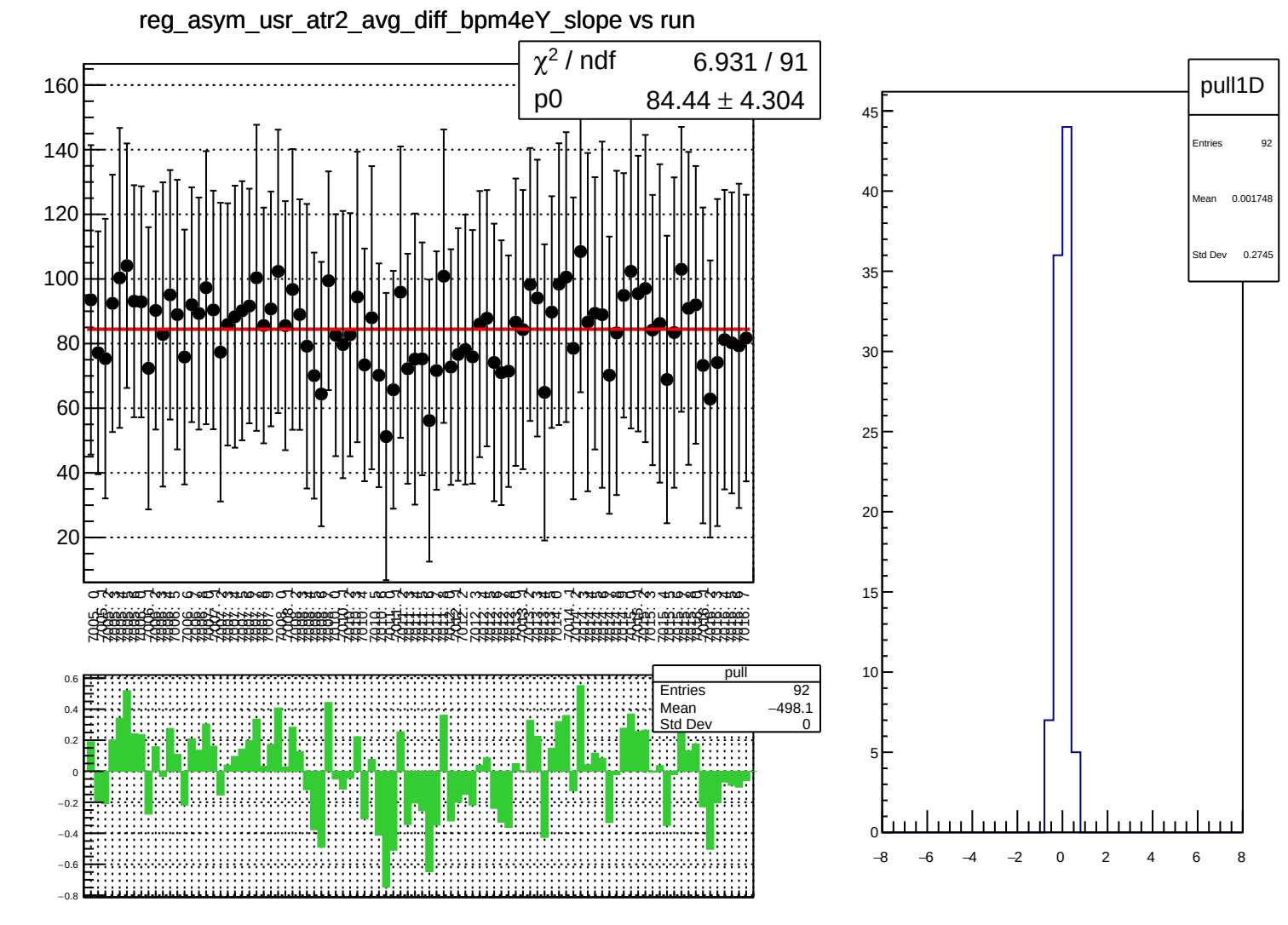

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.03 / 91
p0 −284.3 ± 6.06
−200
−250
−300
−350
−400
pull
Entries 92
Mean 613
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

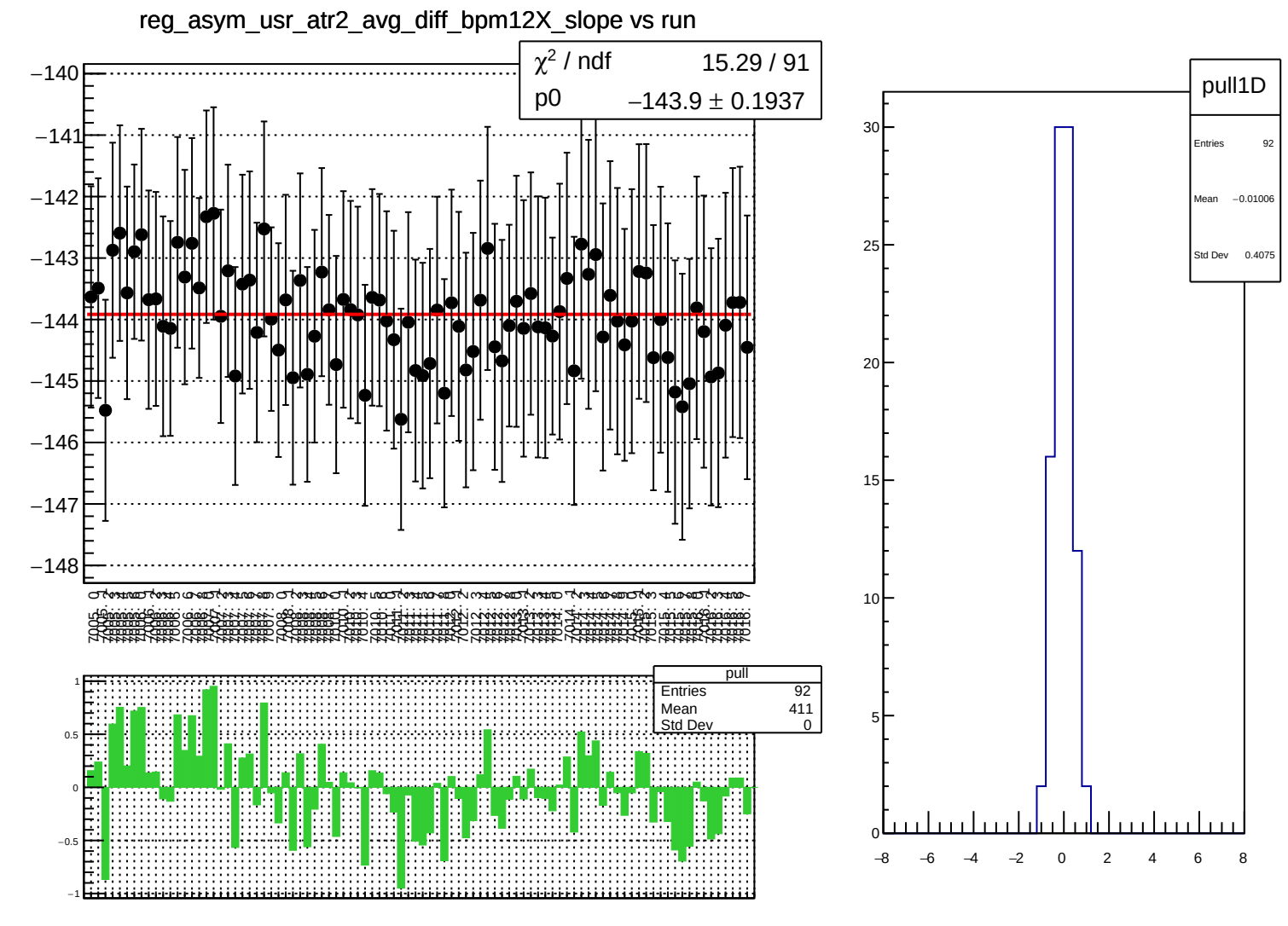

pull1D
Entries 92
Mean 0.002691
Std Dev 0.3462
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

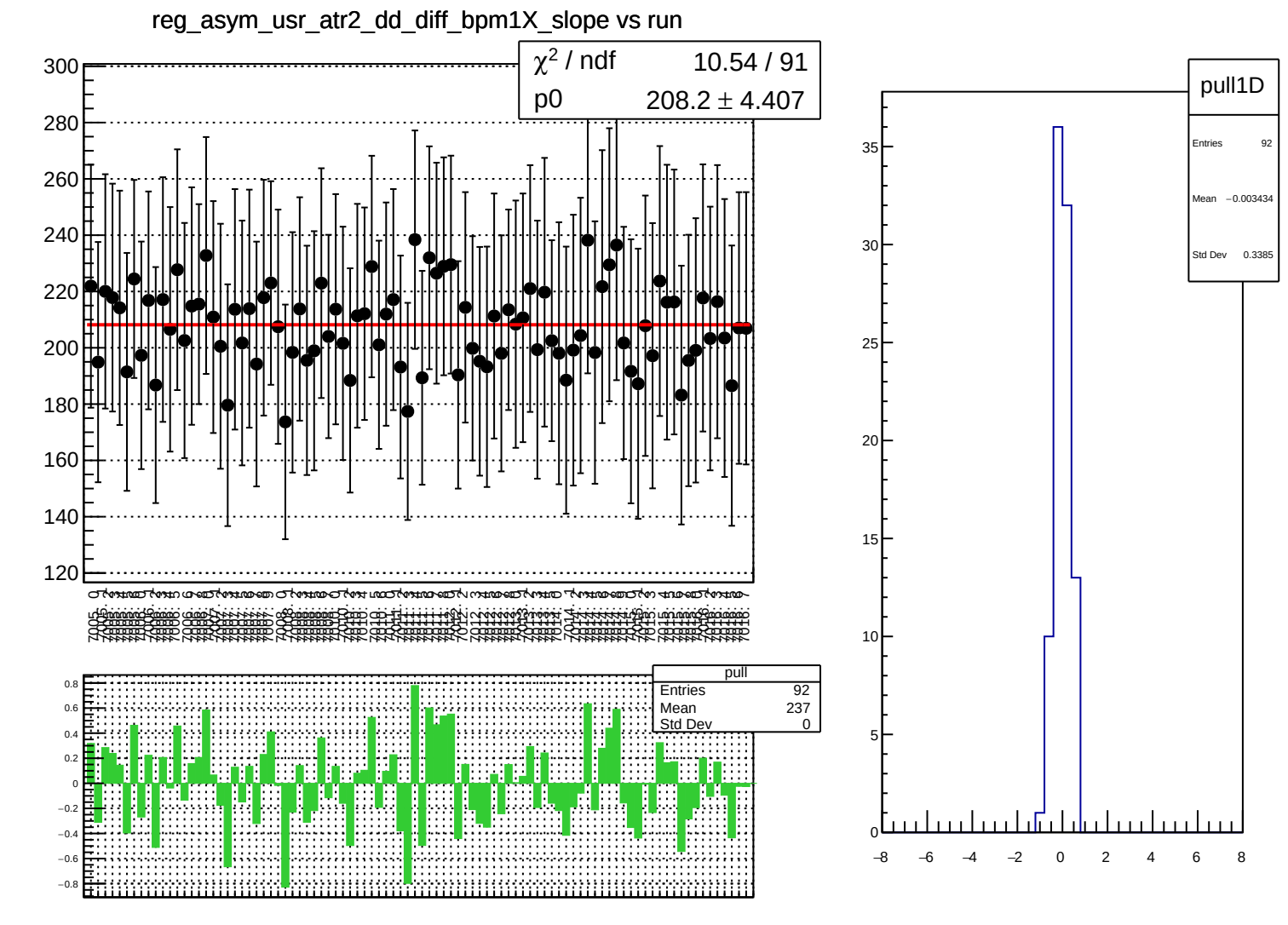

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.307 / 91
p0 −10.14 ± 4.108
pull
Entries 92
Mean −91.1
Std Dev 0

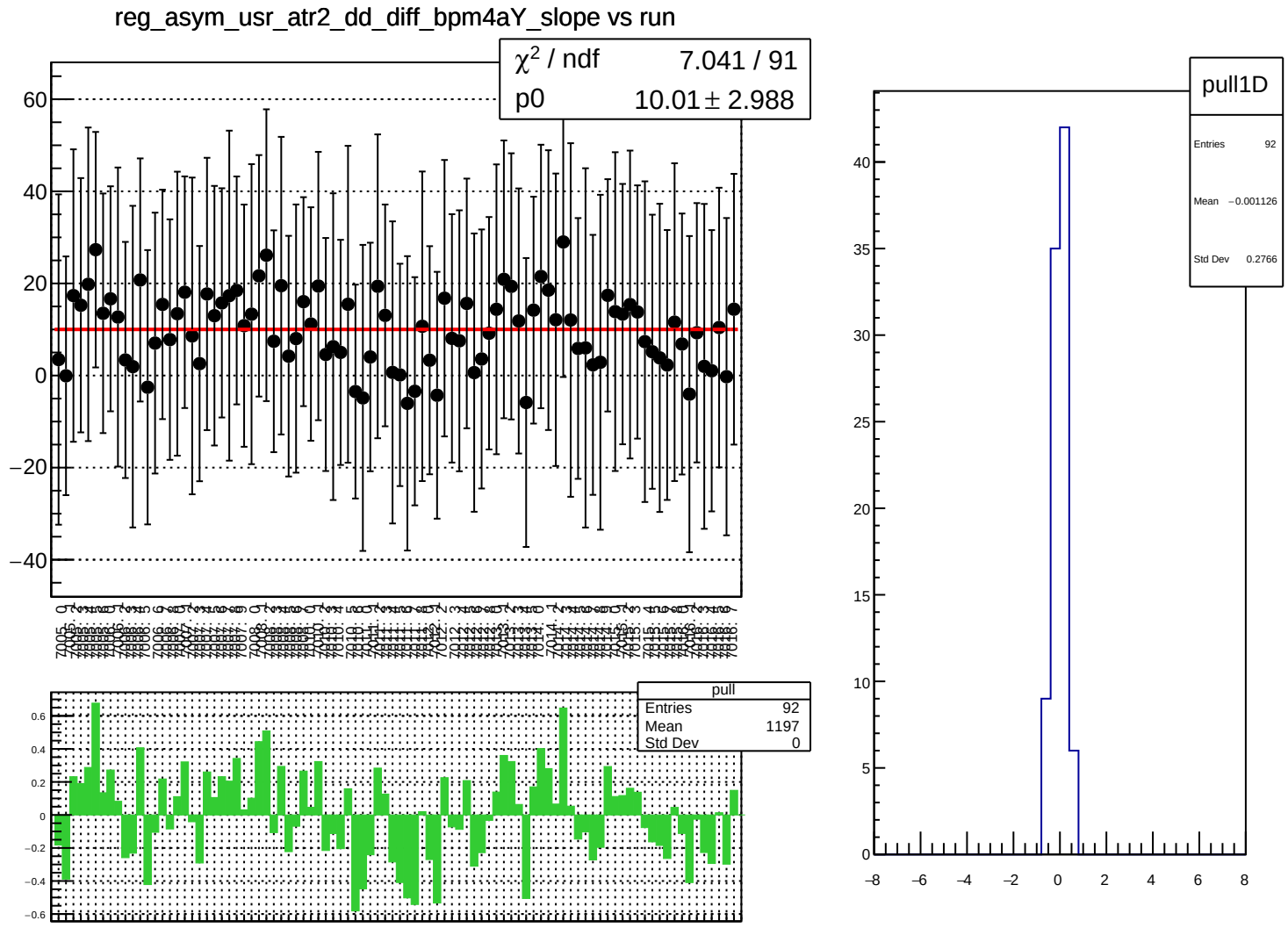

pull1D
Entries 92
Mean −0.003054
Std Dev 0.2618

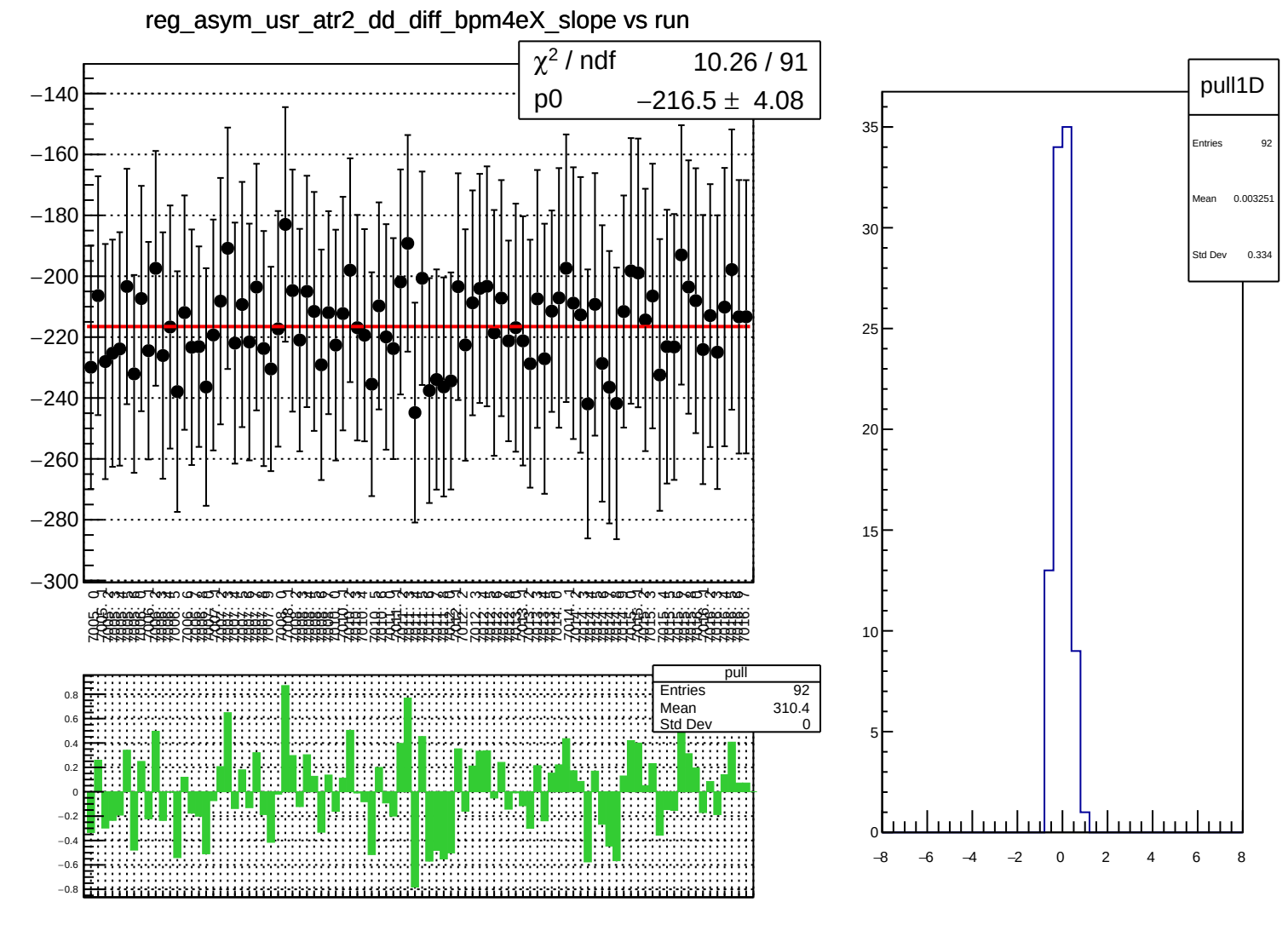

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.35 / 91
p0 349 ± 5.61
pull
Entries 92
Mean 760.6
Std Dev 0
pull1D
Entries 92
Mean −0.002323
Std Dev 0.3353

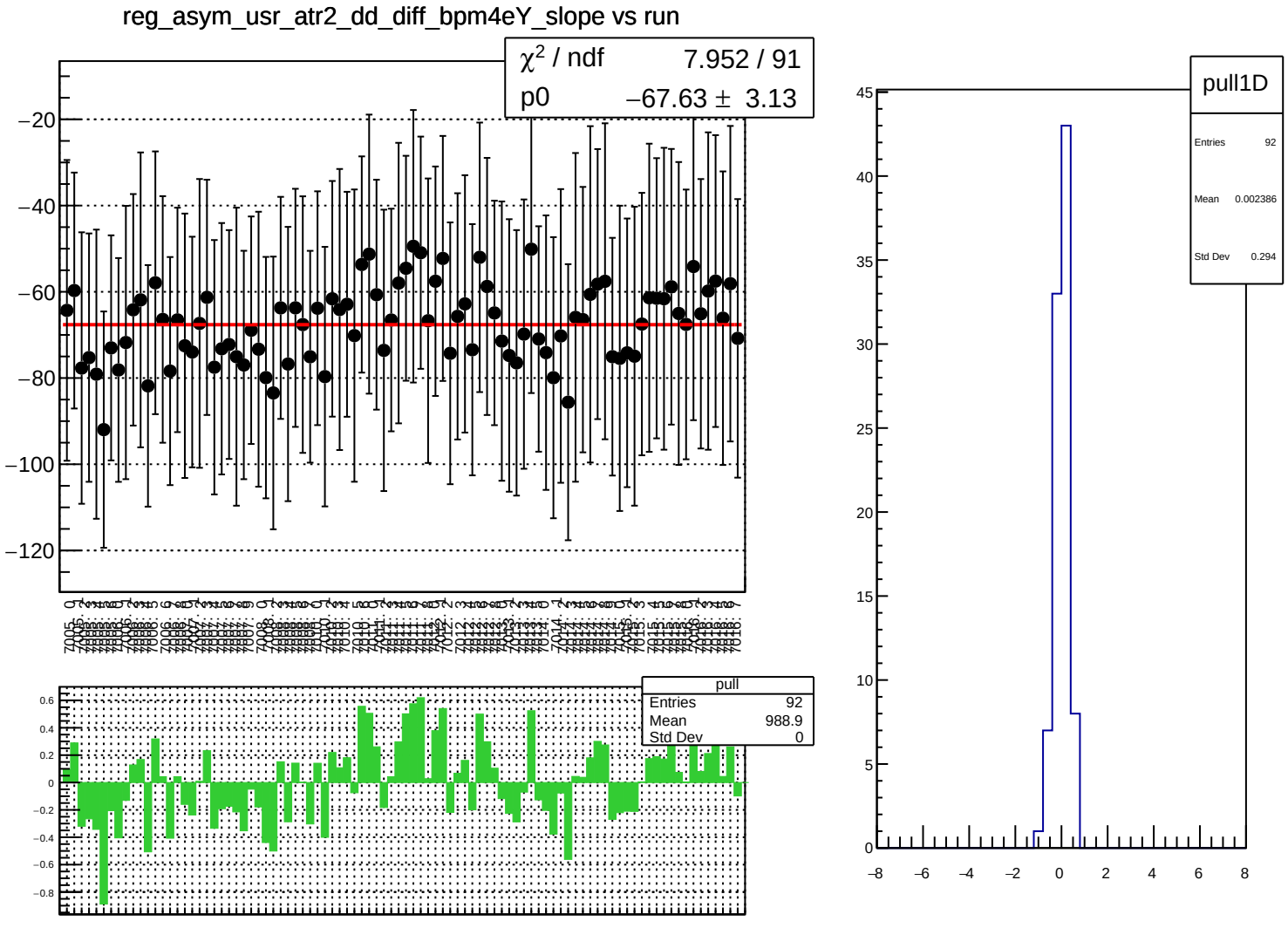

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.931 / 91
p0 84.44 ± 4.304
pull
Entries 92
Mean −498.1
Std Dev 0
pull1D
Entries 92
Mean 0.001748
Std Dev 0.2745

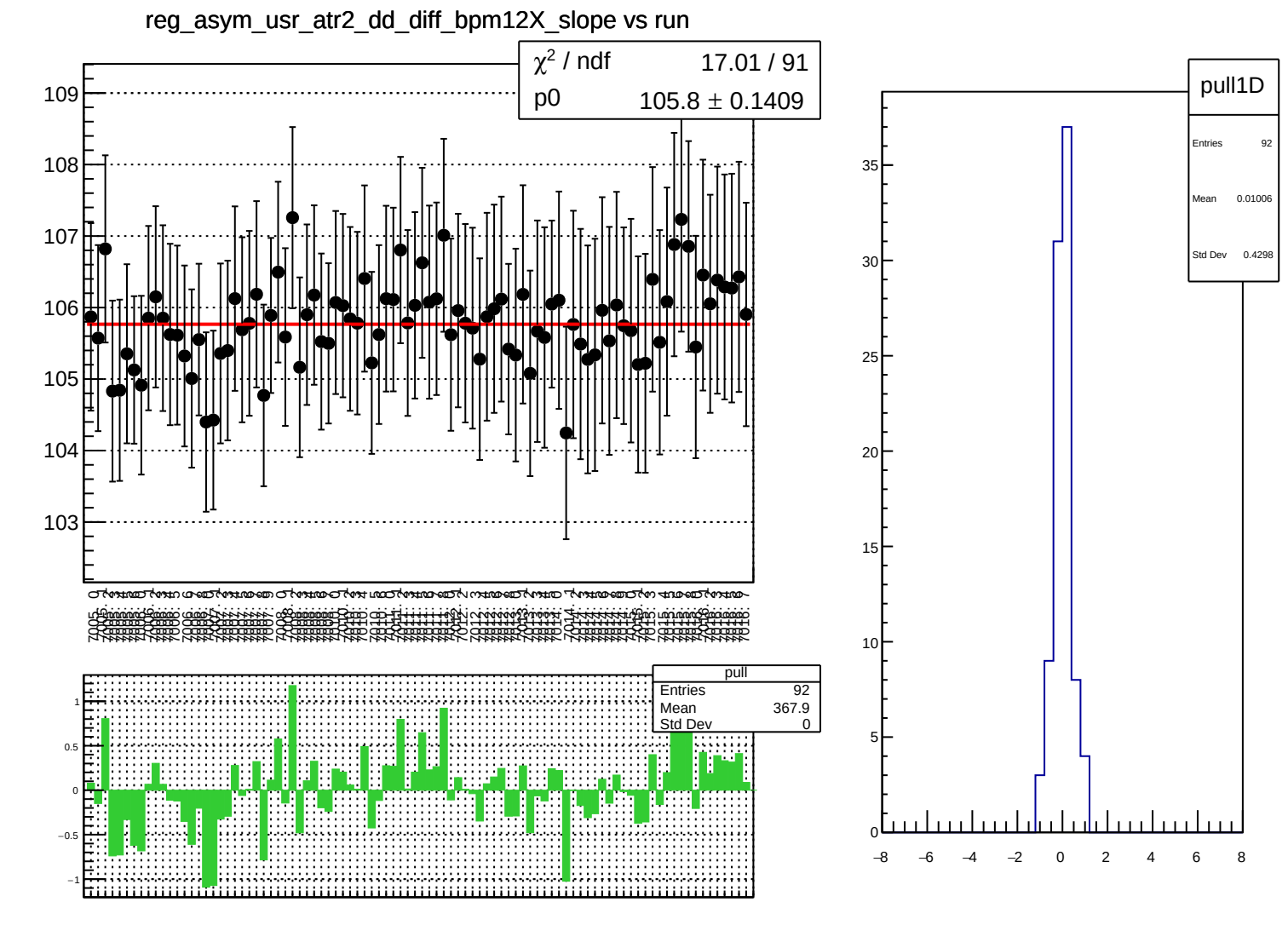

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 15.29 / 91
p0 −143.9 ± 0.1937
pull
Entries 92
Mean 411
Std Dev 0
pull1D
Entries 92
Mean −0.01006
Std Dev 0.4075

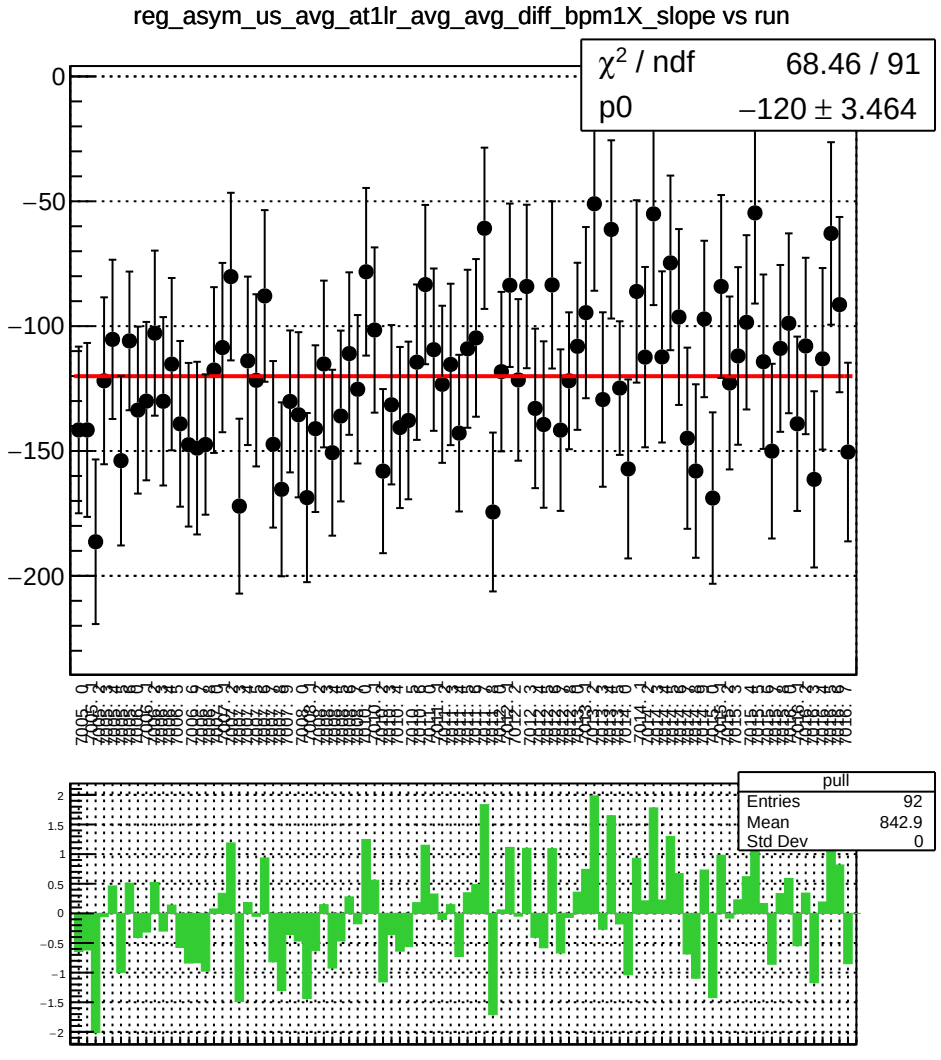

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.54 / 91
p0 208.2 ± 4.407
pull
Entries 92
Mean 237
Std Dev 0
pull1D
Entries 92
Mean −0.003434
Std Dev 0.3385

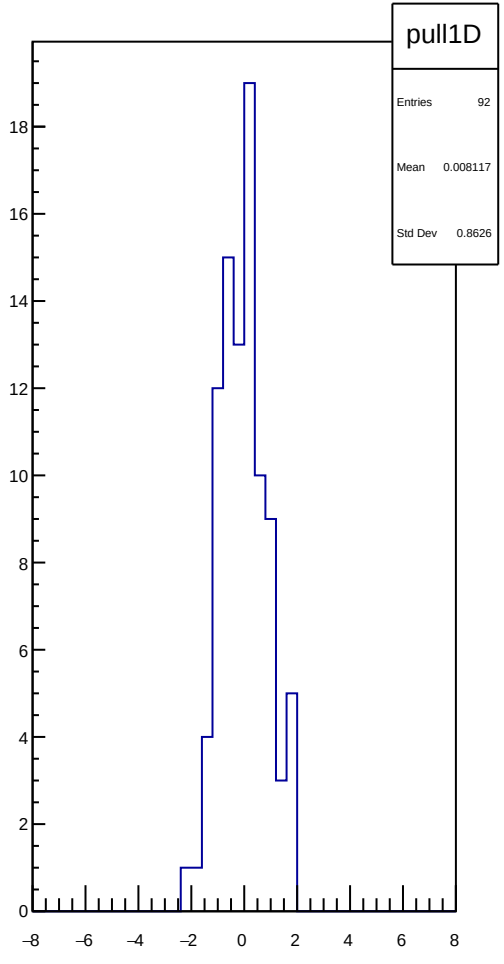

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.041 / 91
p0 10.01 ± 2.988
pull
Entries 92
Mean 1197
Std Dev 0
pull1D
Entries 92
Mean −0.001126
Std Dev 0.2766

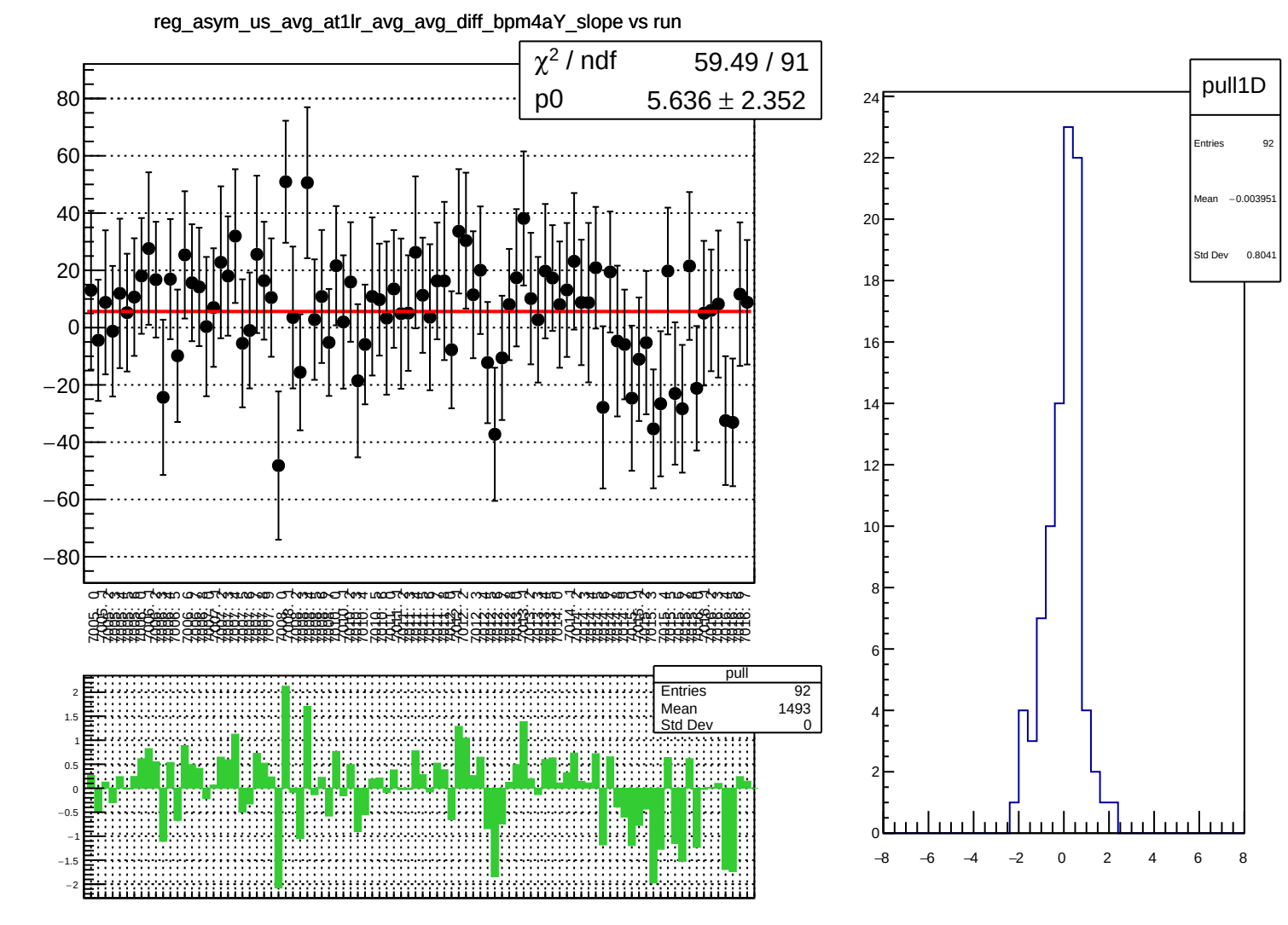

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.26 / 91
p0 −216.5 ± 4.08
−140
−160
−180
−200
−220
−240
−260
−280
−300
pull
Entries 92
Mean 310.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean 0.003251
Std Dev 0.334
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

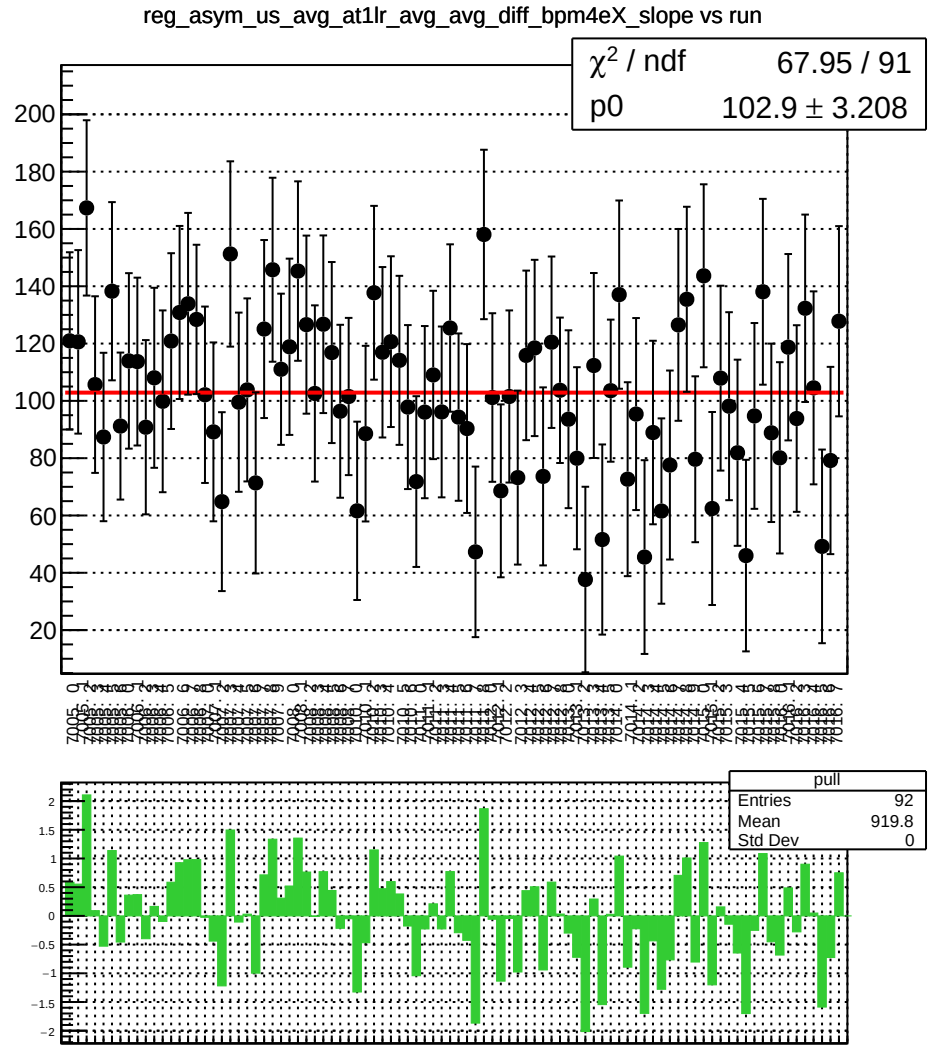

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.952 / 91
p0 −67.63 ± 3.13
−20
−40
−60
−80
−100
−120
pull
Entries 92
Mean 988.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean 0.002386
Std Dev 0.294
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

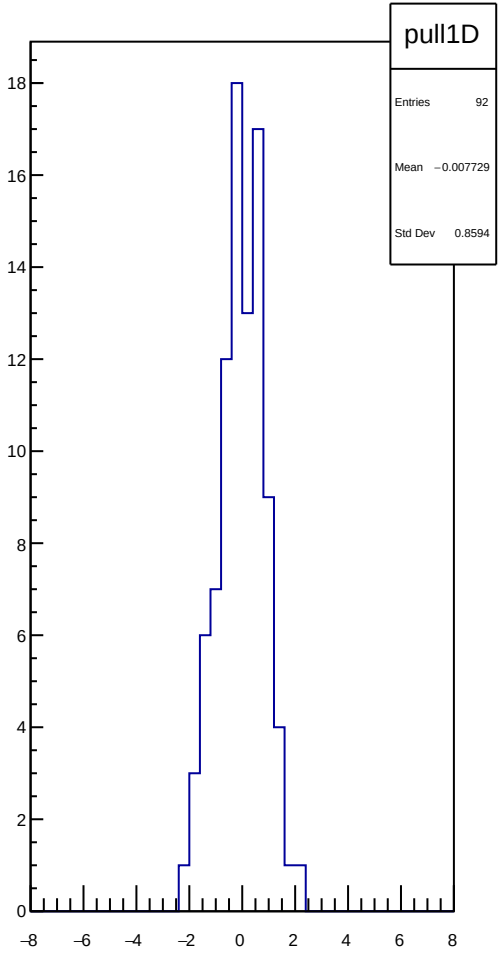

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 17.01 / 91
p0 105.8 ± 0.1409
pull
Entries 92
Mean 367.9
Std Dev 0
pull1D
Entries 92
Mean 0.01006
Std Dev 0.4298

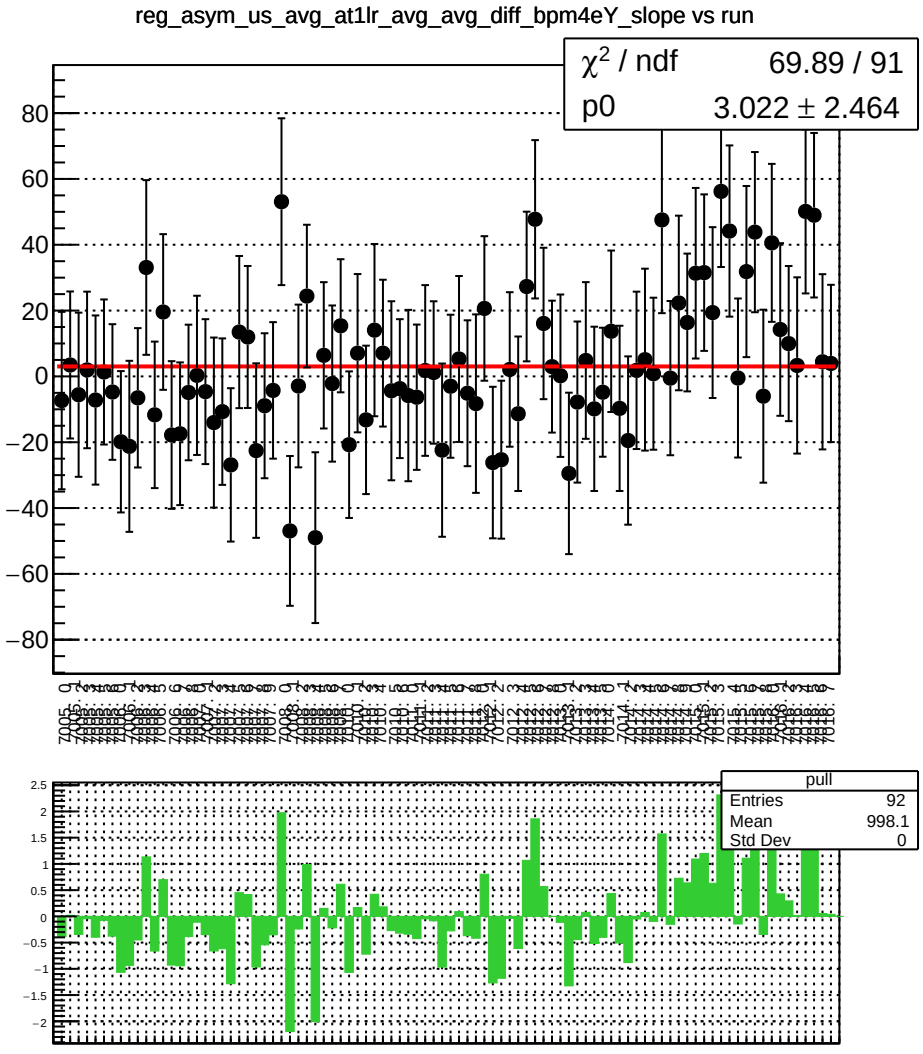

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 68.46 / 91
p0 −120 ± 3.464
0
−50
−100
−150
−200
pull
Entries 92
Mean 842.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

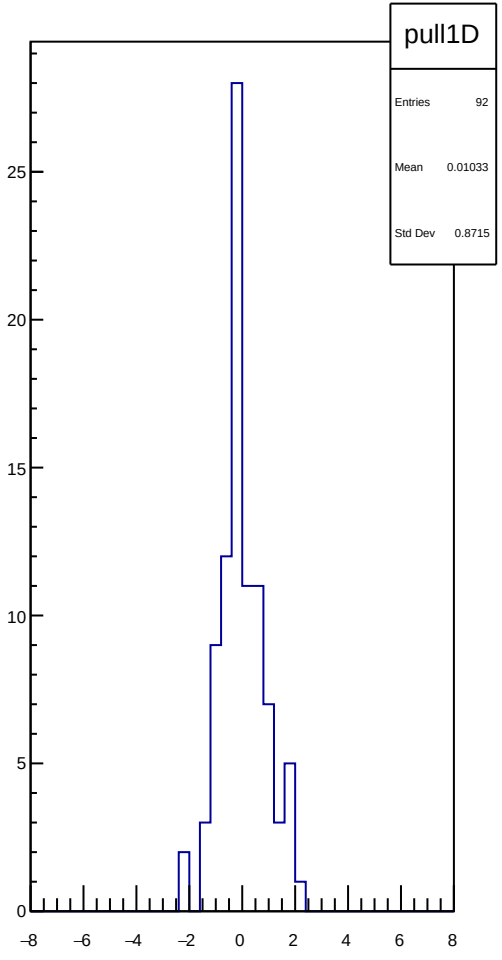

pull1D
Entries 92
Mean 0.008117
Std Dev 0.8626
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

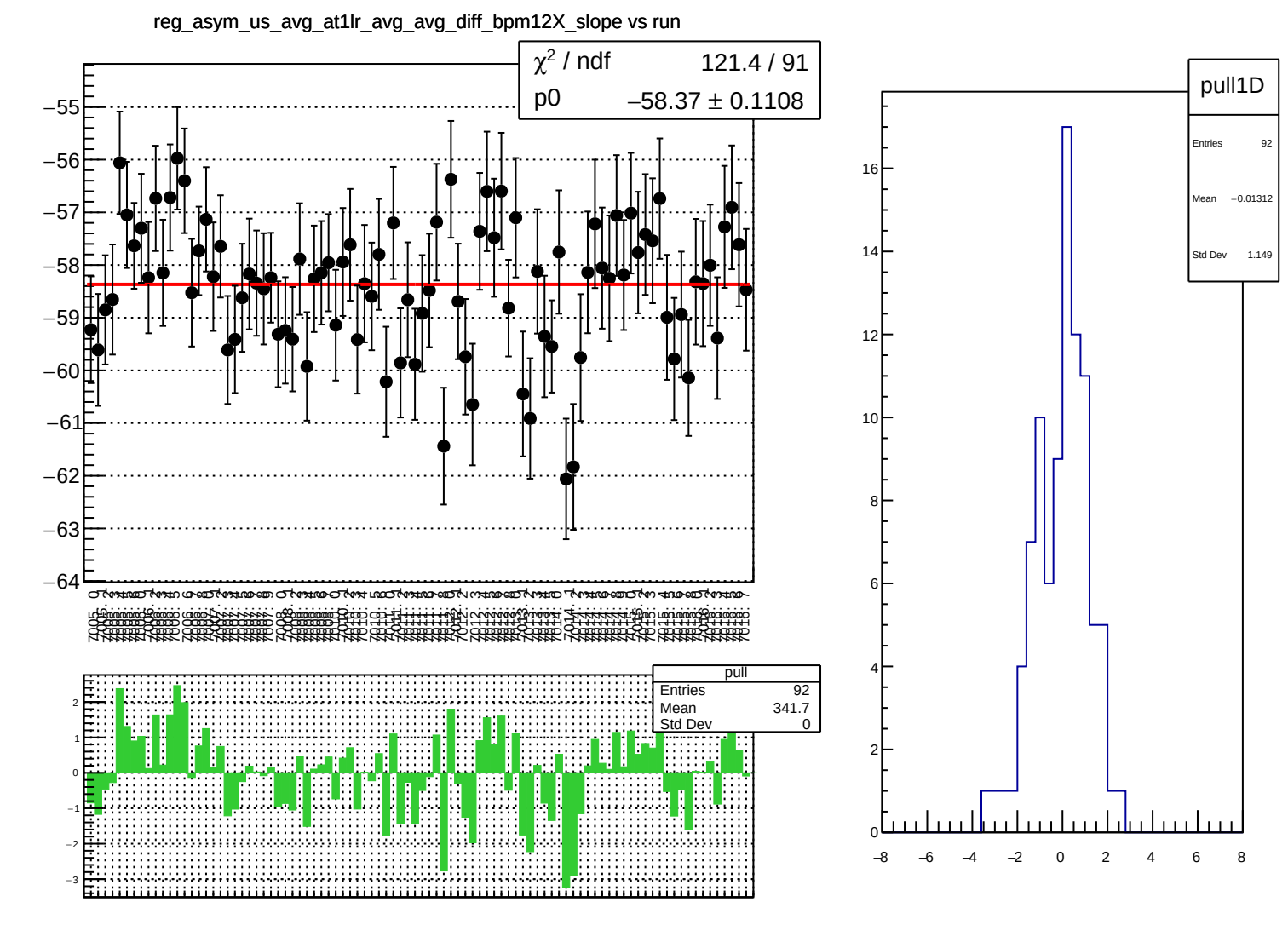

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.49 / 91
p0 5.636 ± 2.352
pull
Entries 92
Mean 1493
Std Dev 0
pull1D
Entries 92
Mean −0.003951
Std Dev 0.8041

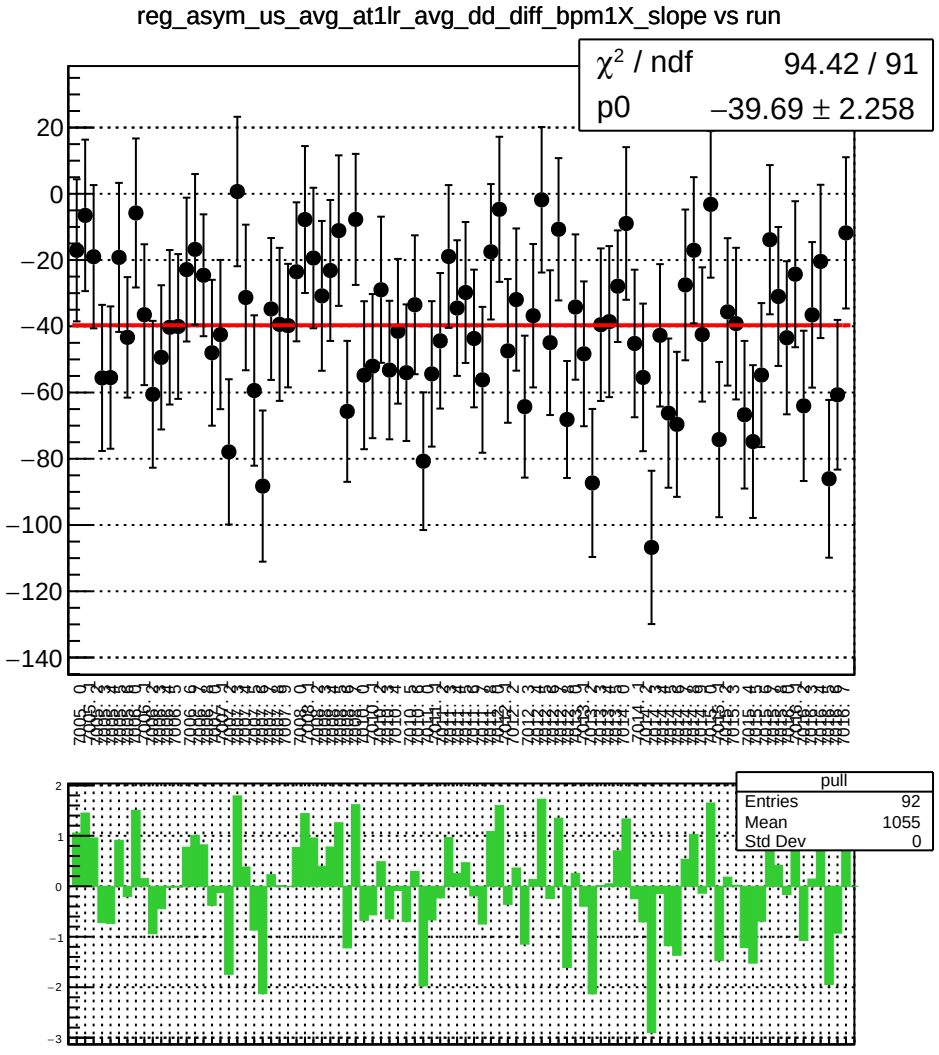

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.95 / 91
p0 102.9 ± 3.208
pull
Entries 92
Mean 919.8
Std Dev 0

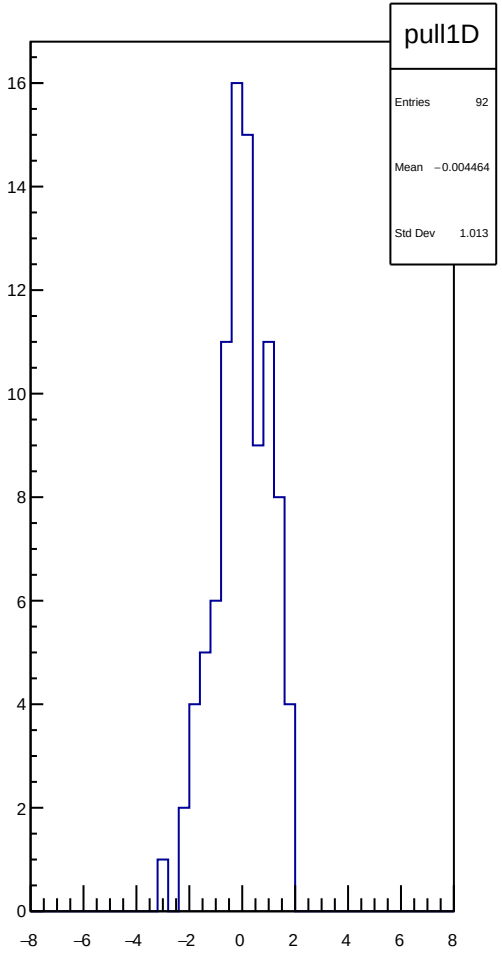

pull1D
Entries 92
Mean −0.007729
Std Dev 0.8594

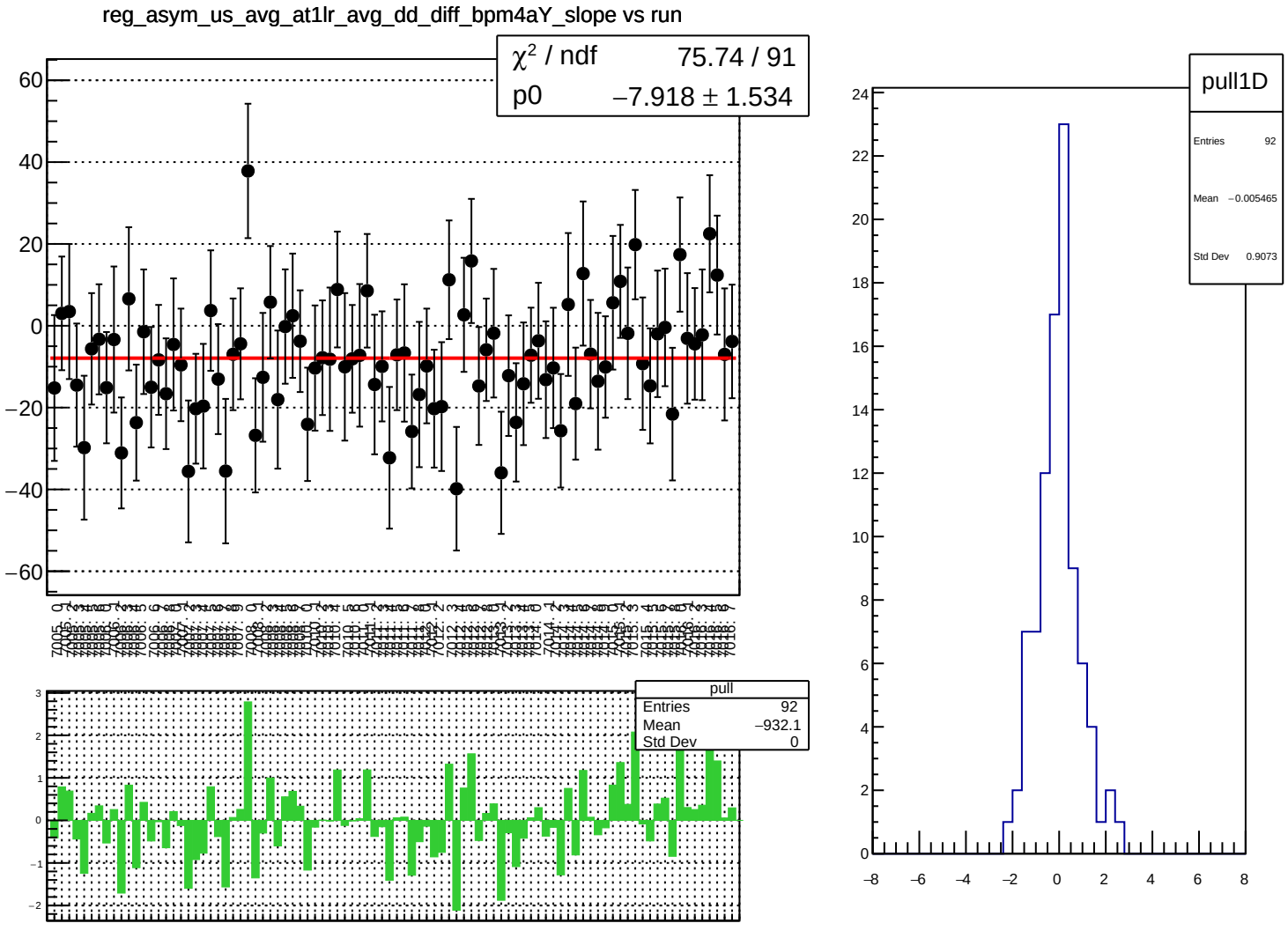

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.89 / 91
p0 3.022 ± 2.464
pull
Entries 92
Mean 998.1
Std Dev 0

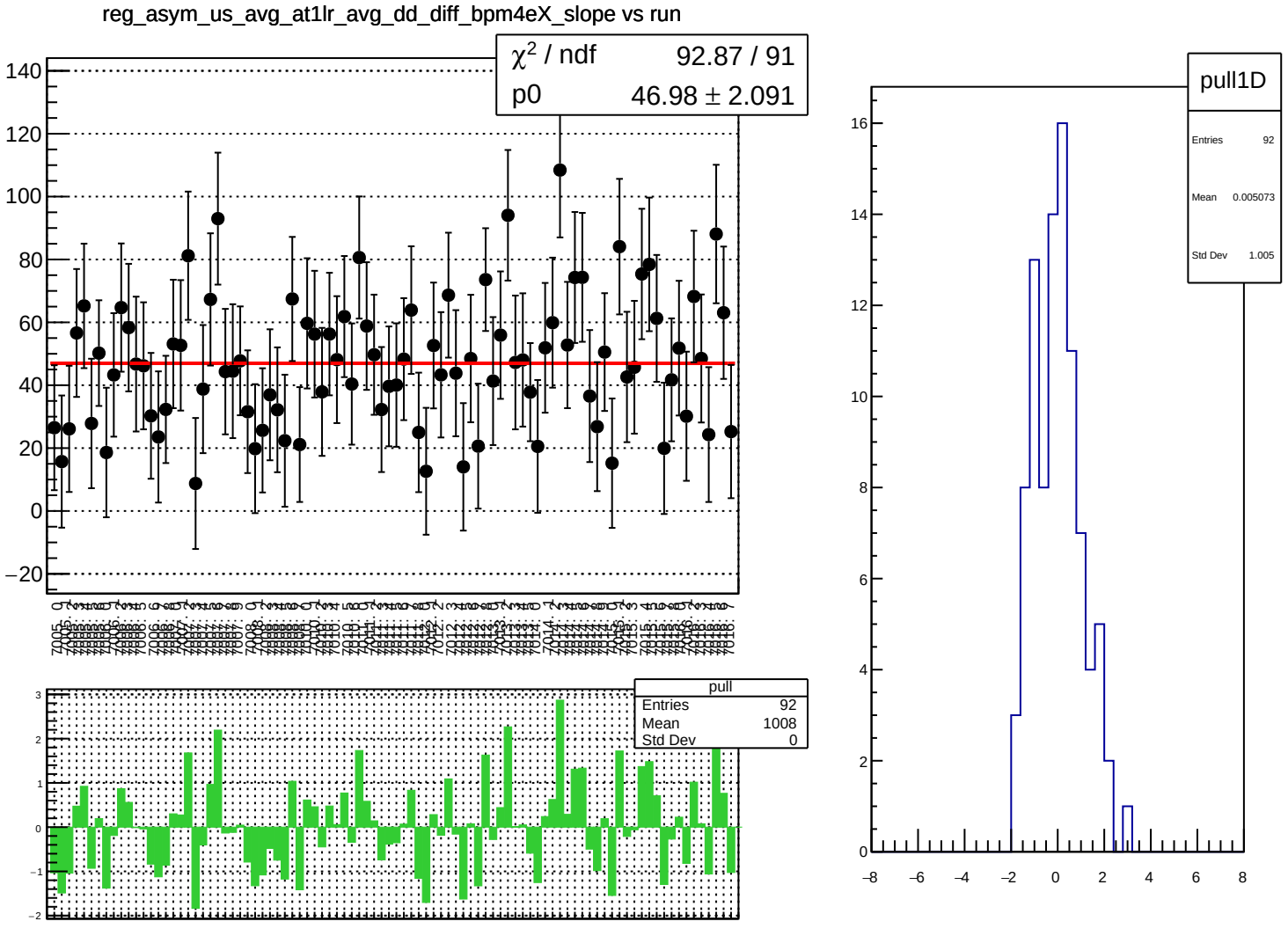

pull1D
Entries 92
Mean 0.01033
Std Dev 0.8715

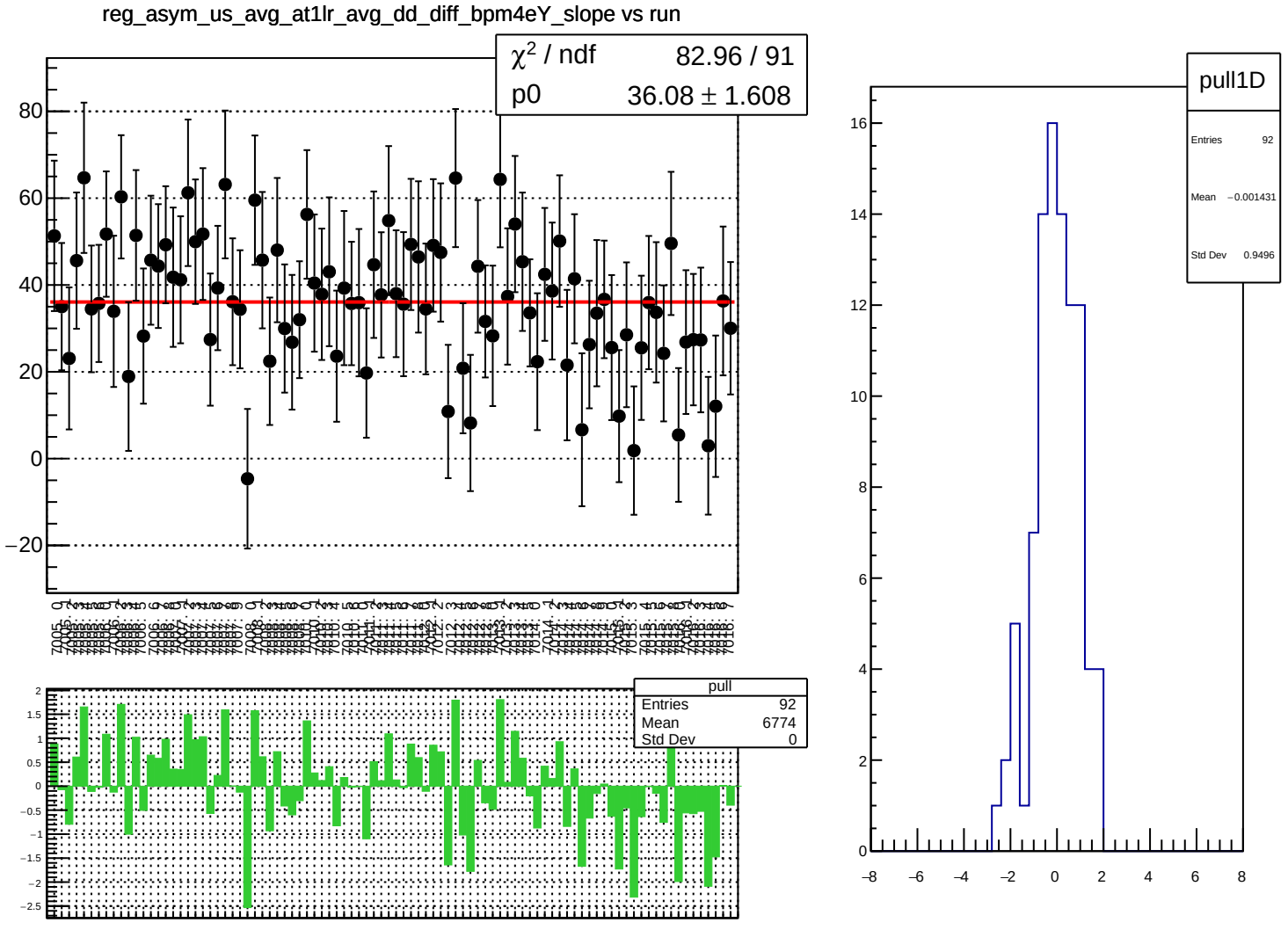

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 121.4 / 91
p0 −58.37 ± 0.1108
pull
Entries 92
Mean 341.7
Std Dev 0
pull1D
Entries 92
Mean −0.01312
Std Dev 1.149

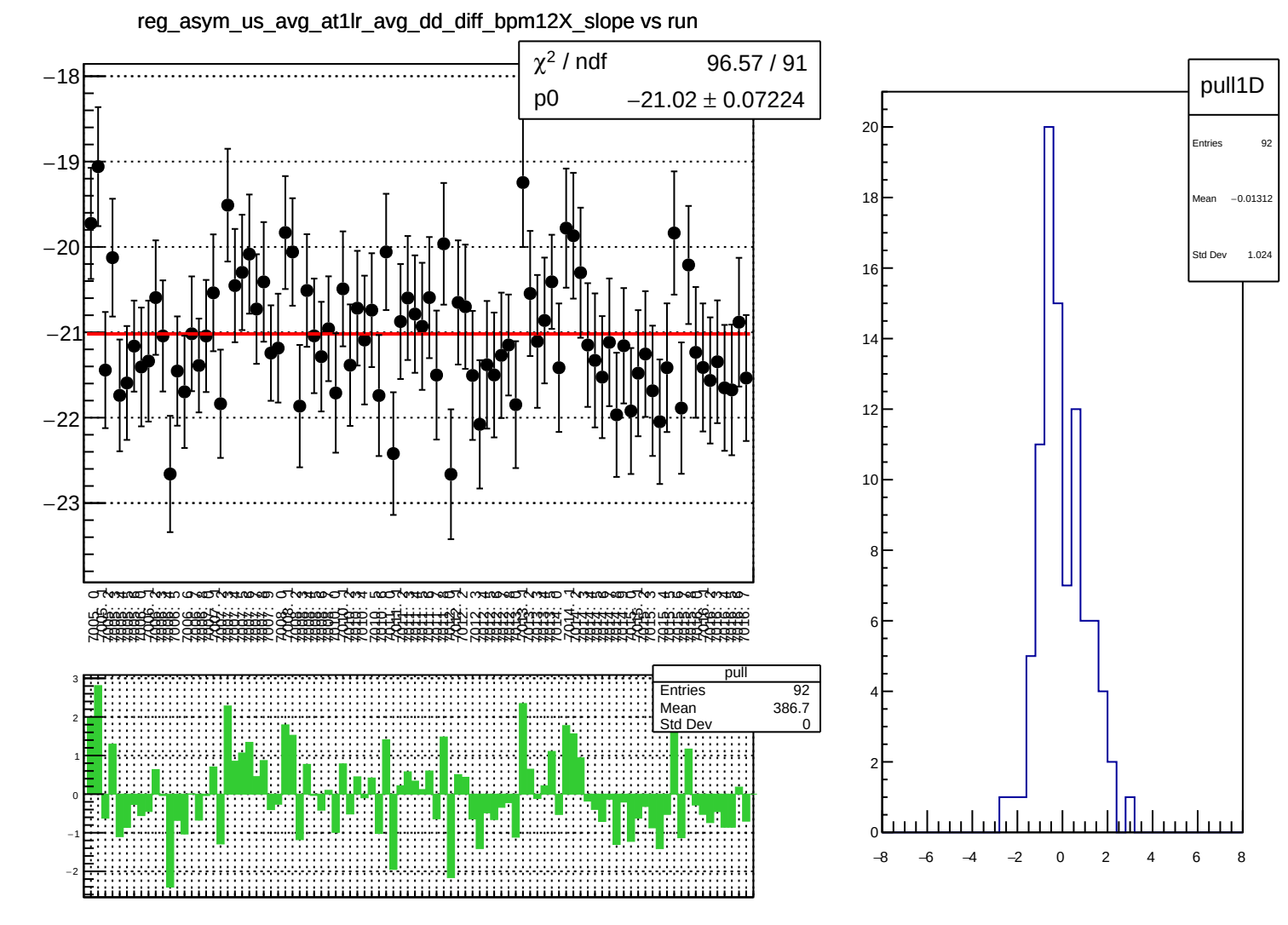

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 94.42 / 91
p0 −39.69 ± 2.258
pull
Entries 92
Mean 1055
Std Dev 0

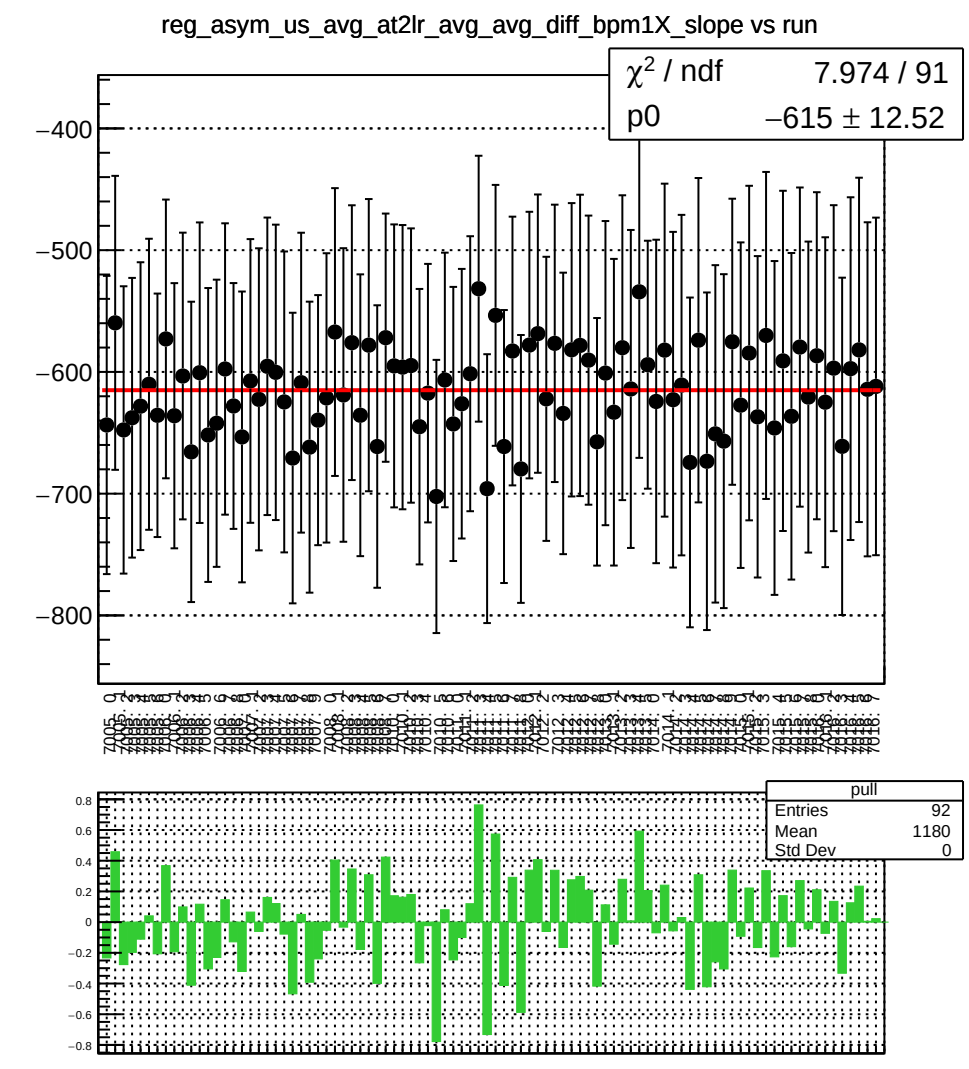

pull1D
Entries 92
Mean −0.004464
Std Dev 1.013

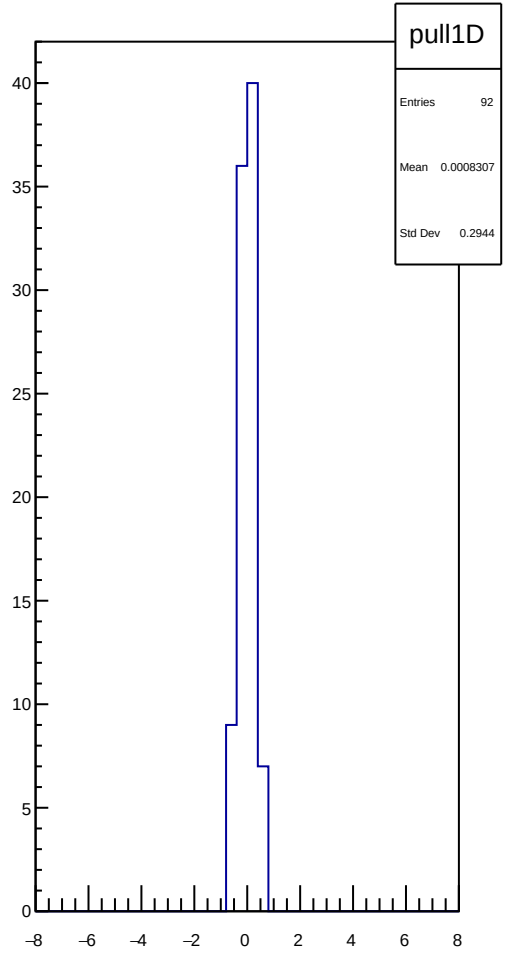

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.74 / 91
p0 −7.918 ± 1.534
pull
Entries 92
Mean −932.1
Std Dev 0
pull1D
Entries 92
Mean −0.005465
Std Dev 0.9073

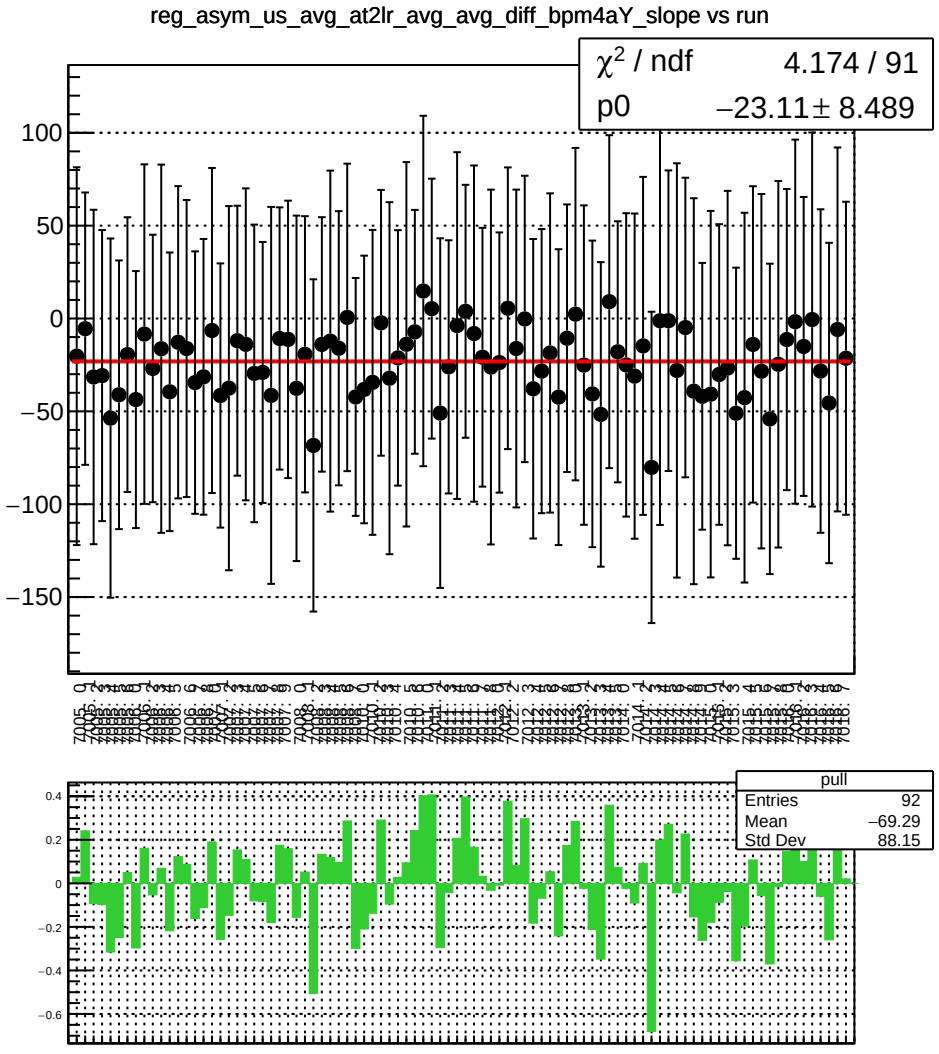

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.87 / 91
p0 46.98 ± 2.091
pull
Entries 92
Mean 1008
Std Dev 0
pull1D
Entries 92
Mean 0.005073
Std Dev 1.005

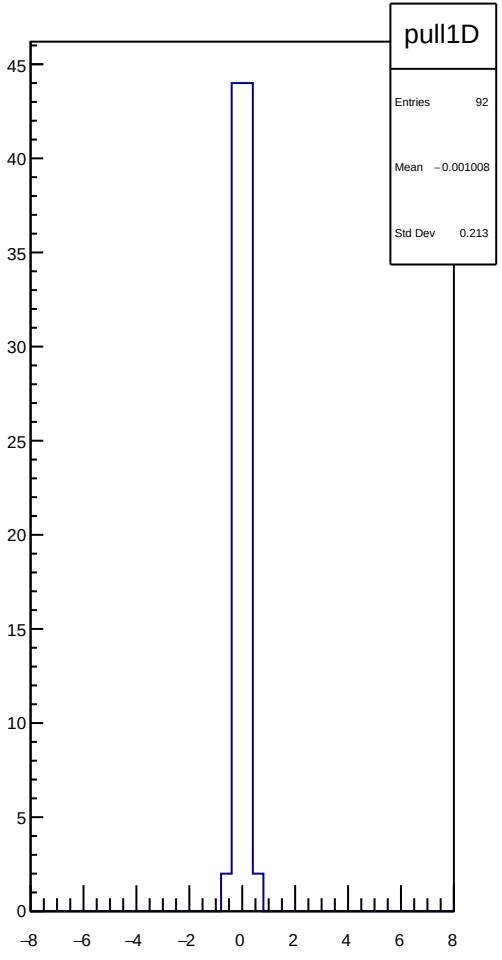

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.96 / 91
p0 36.08 ± 1.608
pull
Entries 92
Mean 6774
Std Dev 0
pull1D
Entries 92
Mean −0.001431
Std Dev 0.9496

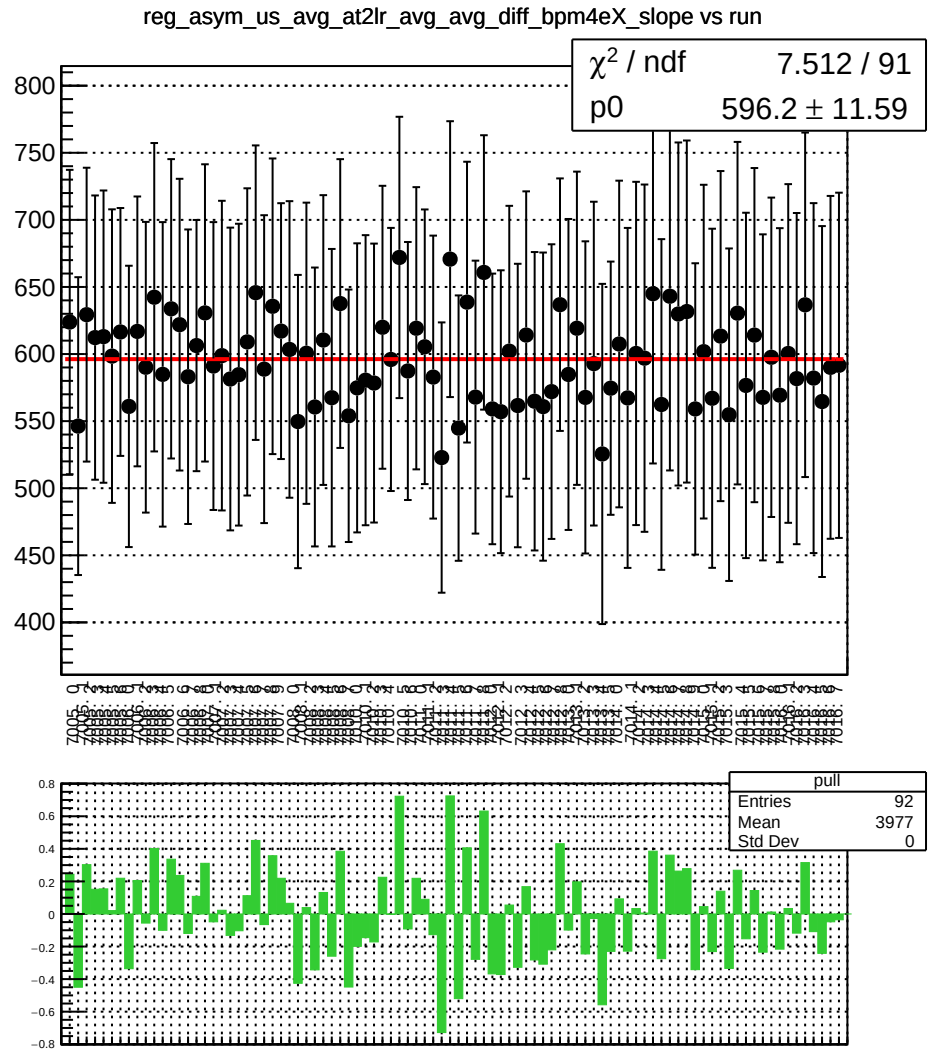

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 96.57 / 91
p0 −21.02 ± 0.07224
pull
Entries 92
Mean 386.7
Std Dev 0
pull1D
Entries 92
Mean −0.01312
Std Dev 1.024

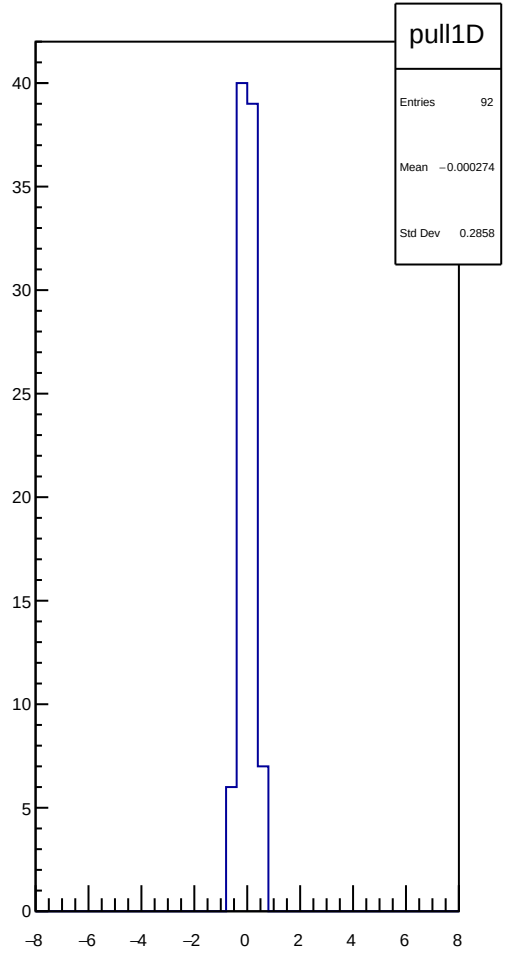

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 7.974 / 91
p0 −615 ± 12.52
−400
−500
−600
−700
−800
pull
Entries 92
Mean 1180
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

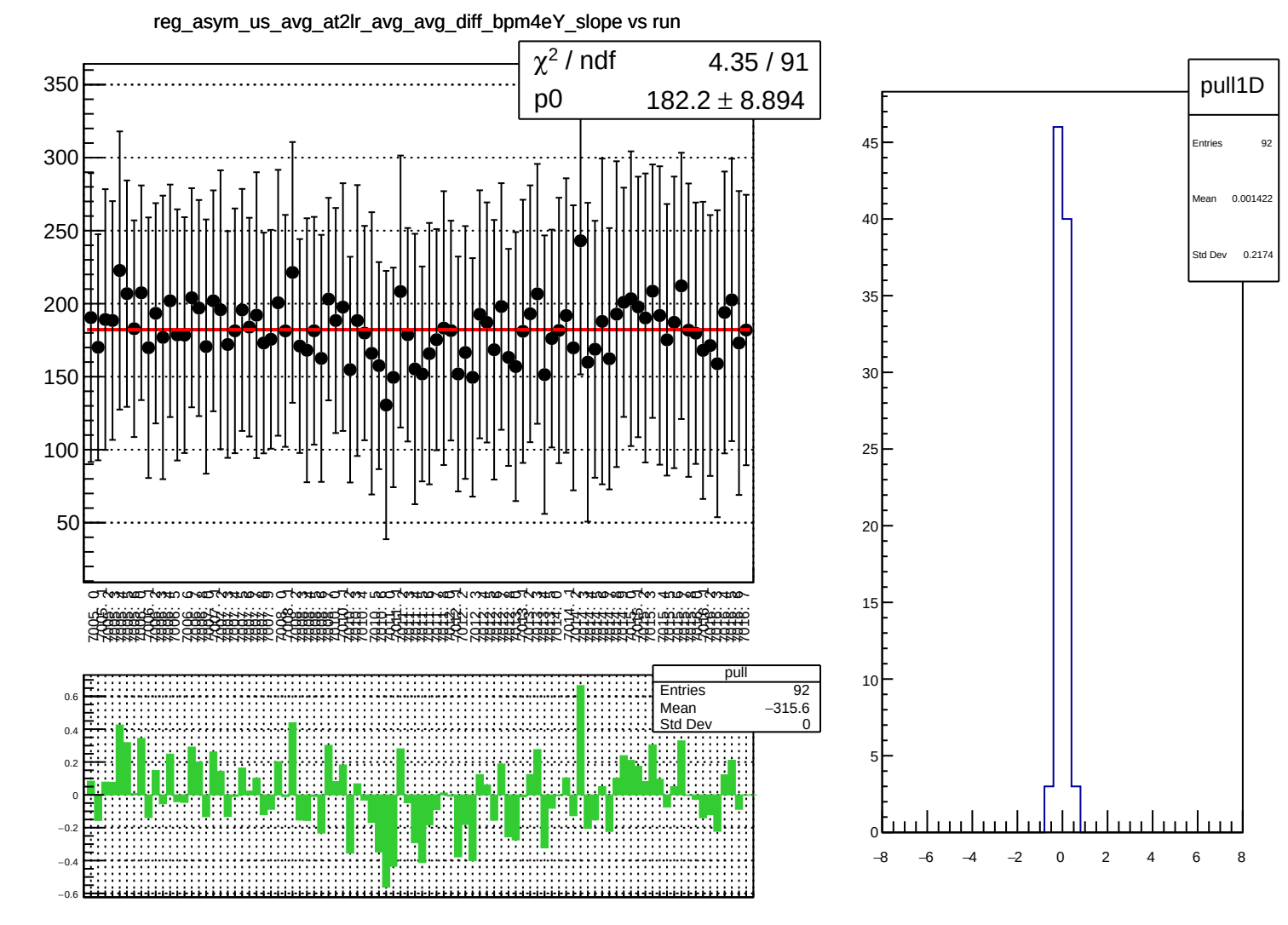

pull1D
Entries 92
Mean 0.0008307
Std Dev 0.2944
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

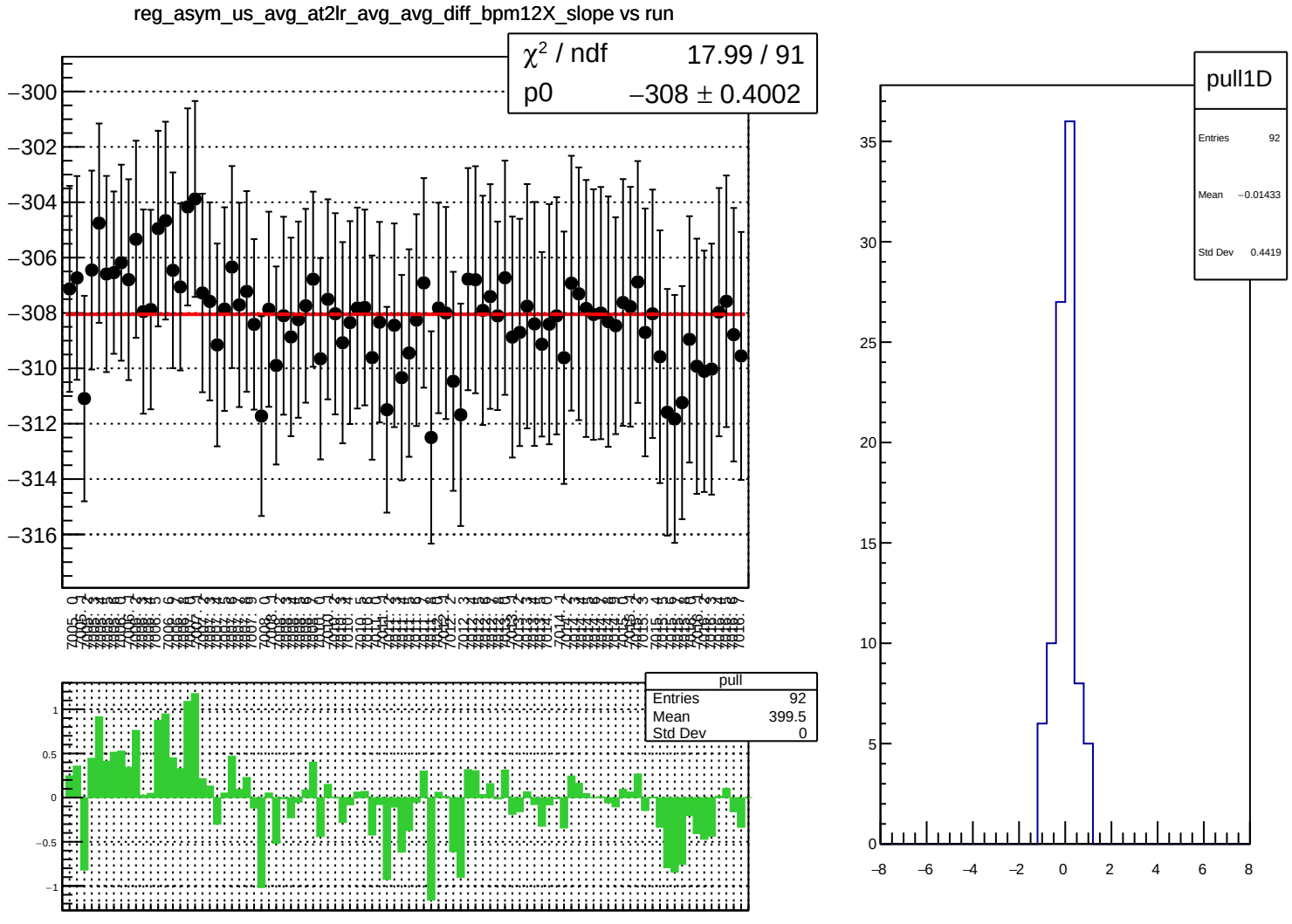

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.174 / 91
p0 −23.11 ± 8.489
pull
Entries 92
Mean −69.29
Std Dev 88.15

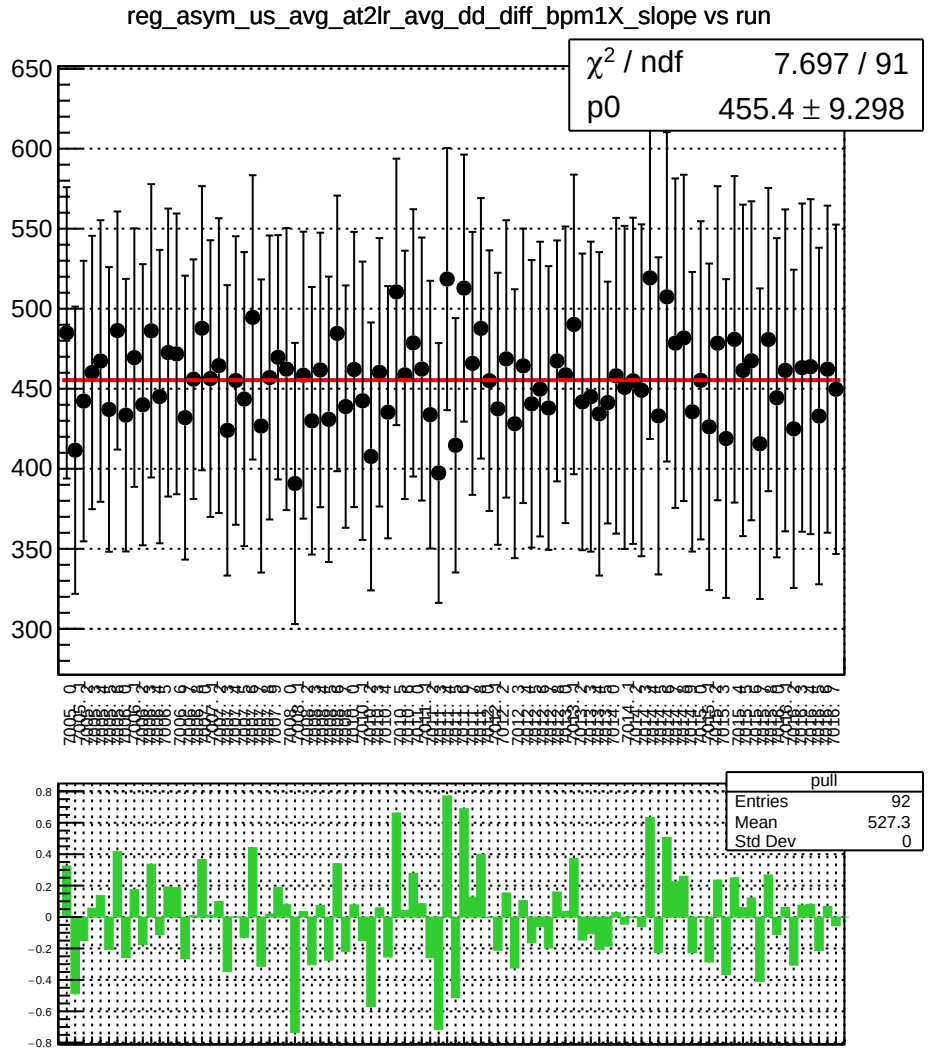

pull1D
Entries 92
Mean −0.001008
Std Dev 0.213

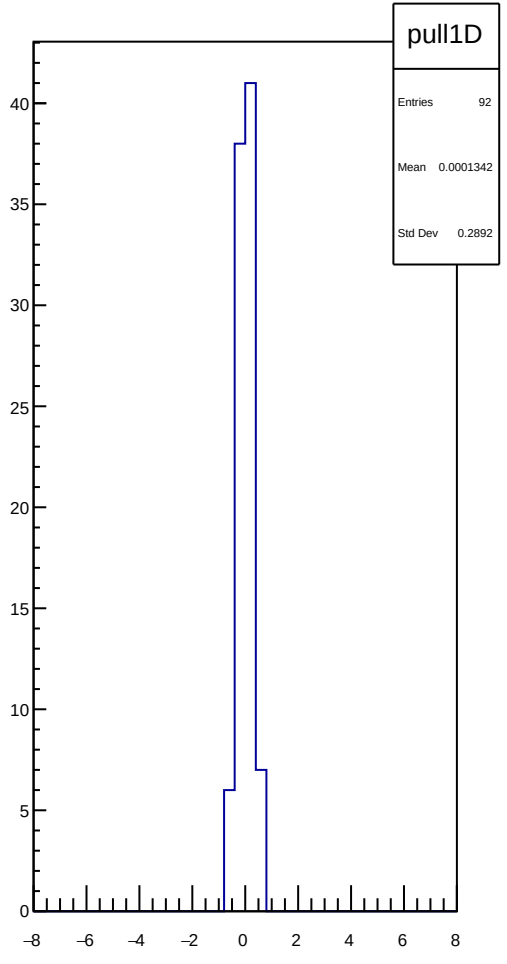

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.512 / 91
p0 596.2 ± 11.59
pull
Entries 92
Mean 3977
Std Dev 0

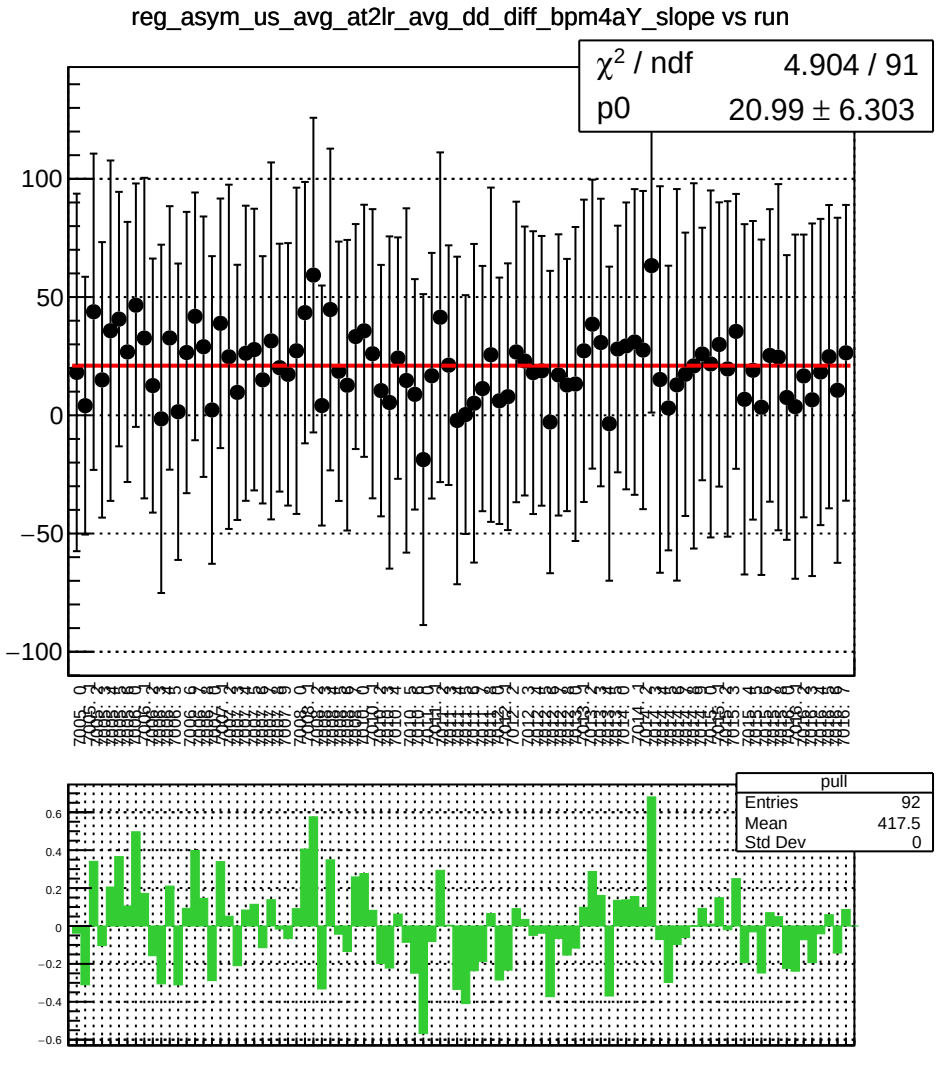

pull1D
Entries 92
Mean −0.000274
Std Dev 0.2858

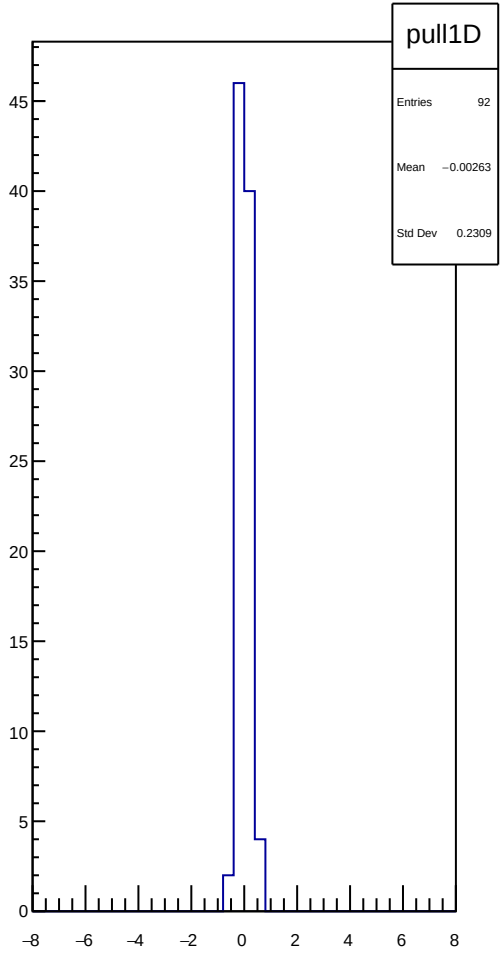

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.35 / 91
p0 182.2 ± 8.894
350
300
250
200
150
100
50
pull
Entries 92
Mean −315.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.001422
Std Dev 0.2174
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

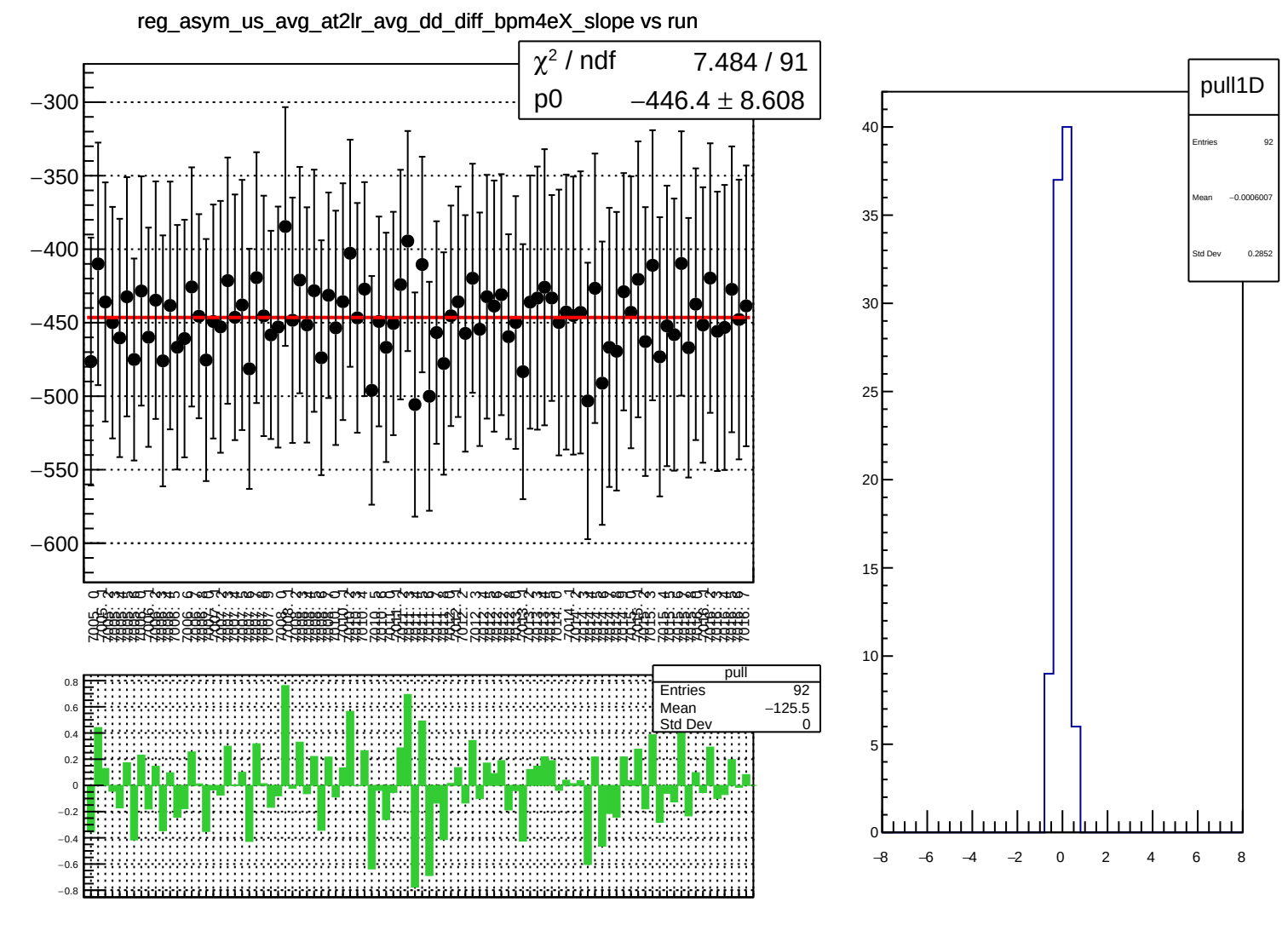

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 17.99 / 91
p0 −308 ± 0.4002
−300
−302
−304
−306
−308
−310
−312
−314
−316
pull
Entries 92
Mean 399.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.01433
Std Dev 0.4419
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

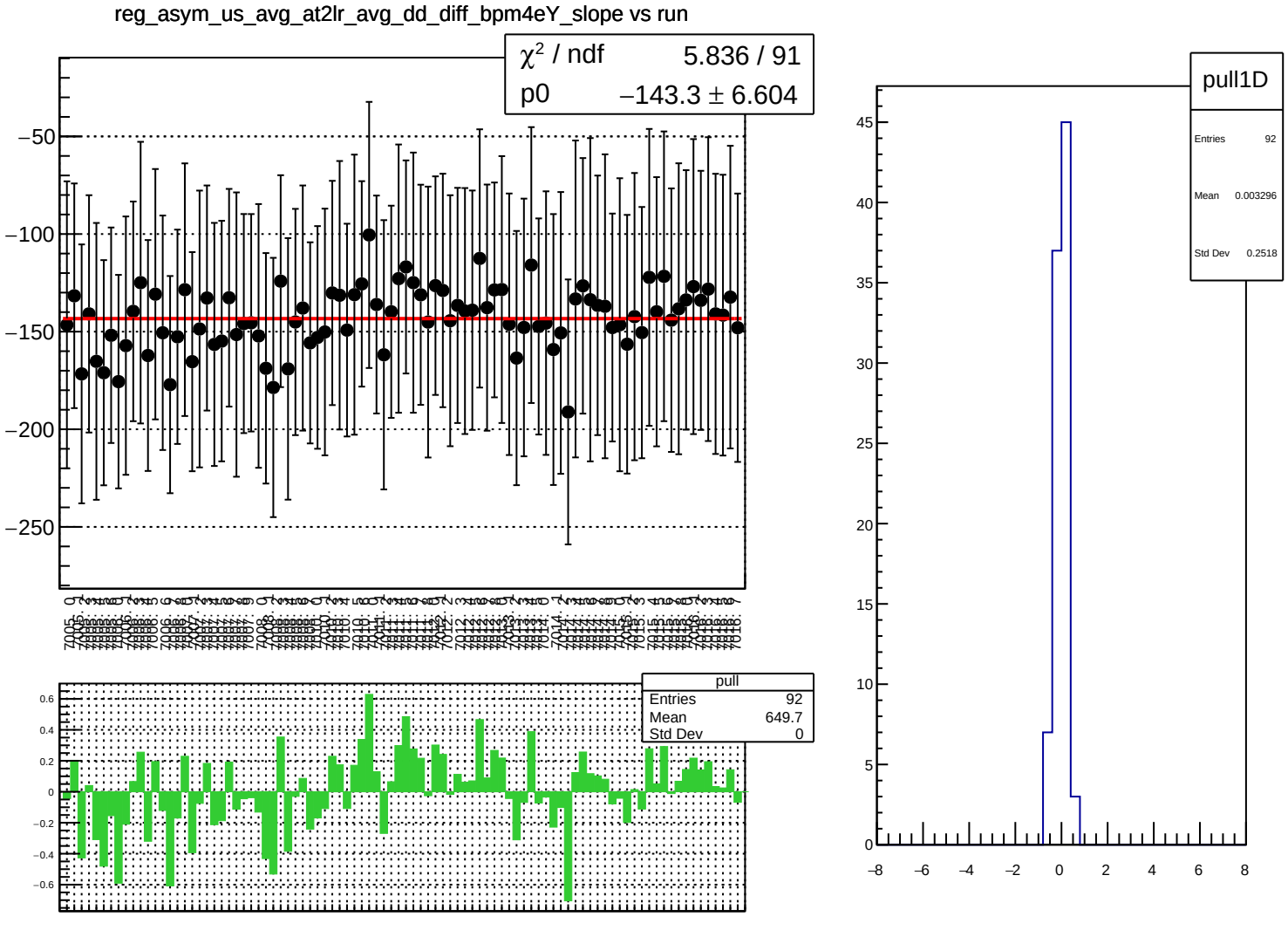

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.697 / 91
p0 455.4 ± 9.298
650
600
550
500
450
400
350
300
pull
Entries 92
Mean 527.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

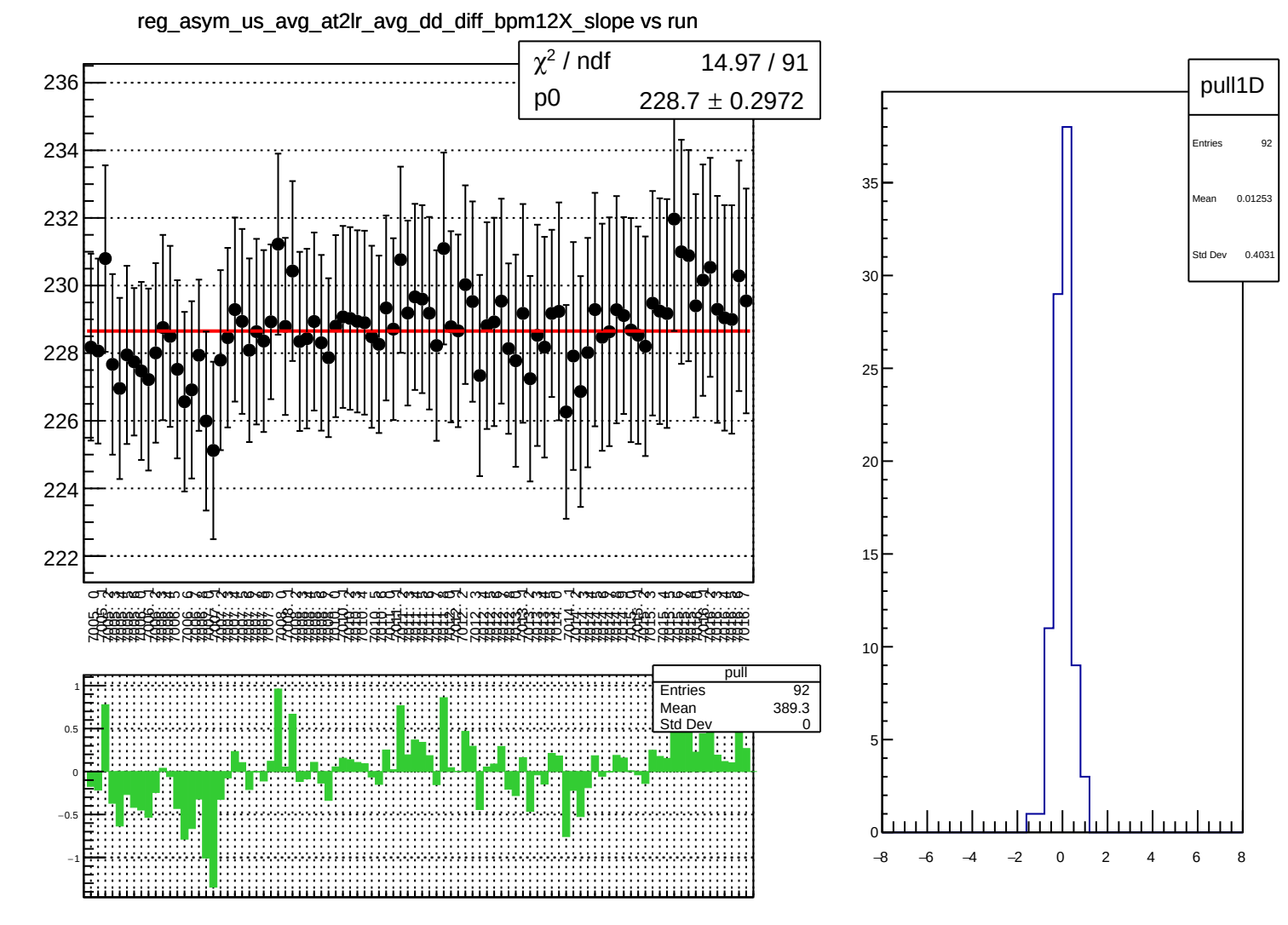

pull1D
Entries 92
Mean 0.0001342
Std Dev 0.2892
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

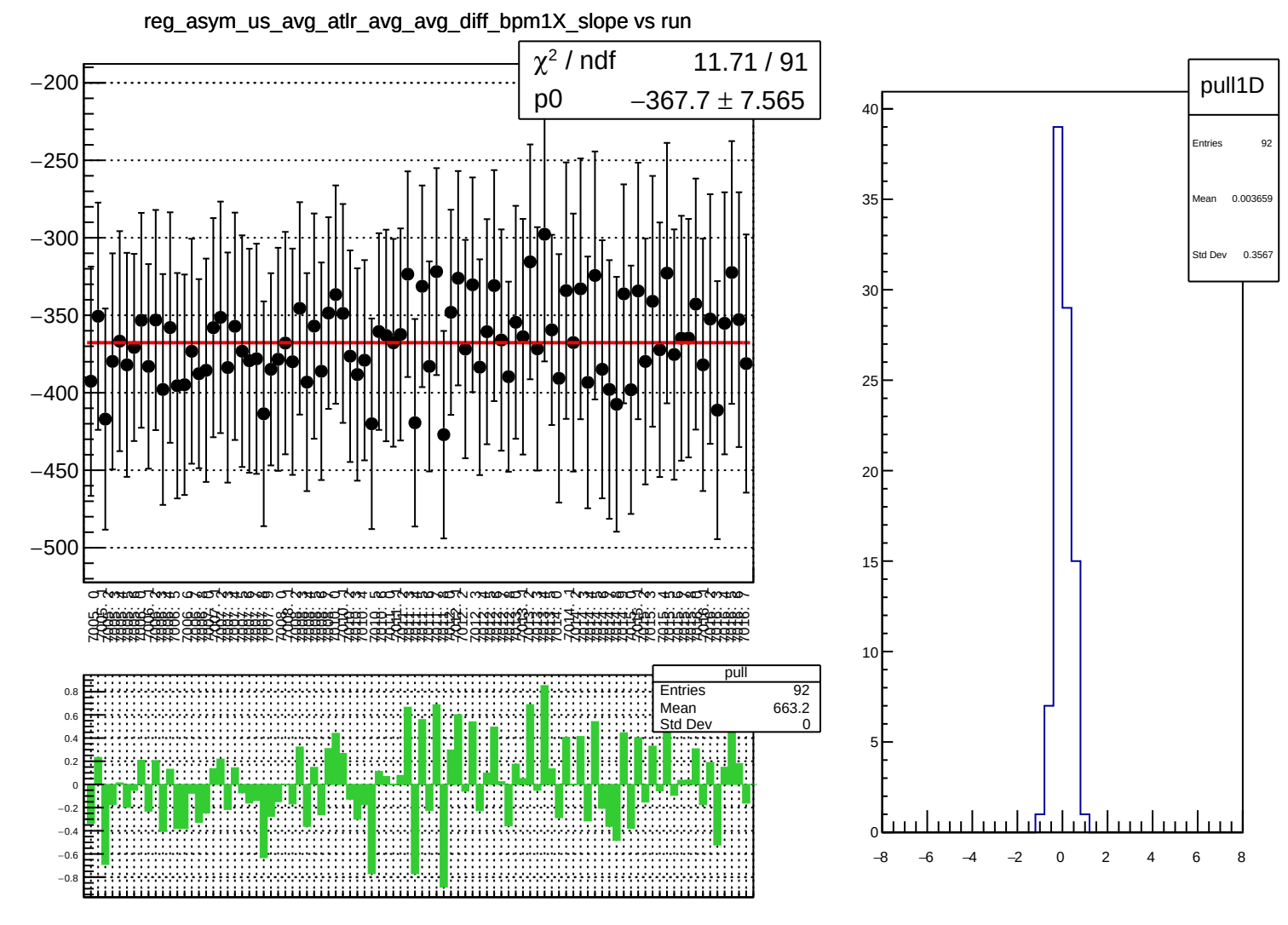

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.904 / 91
p0 20.99 ± 6.303
100
50
0
−50
−100
pull
Entries 92
Mean 417.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

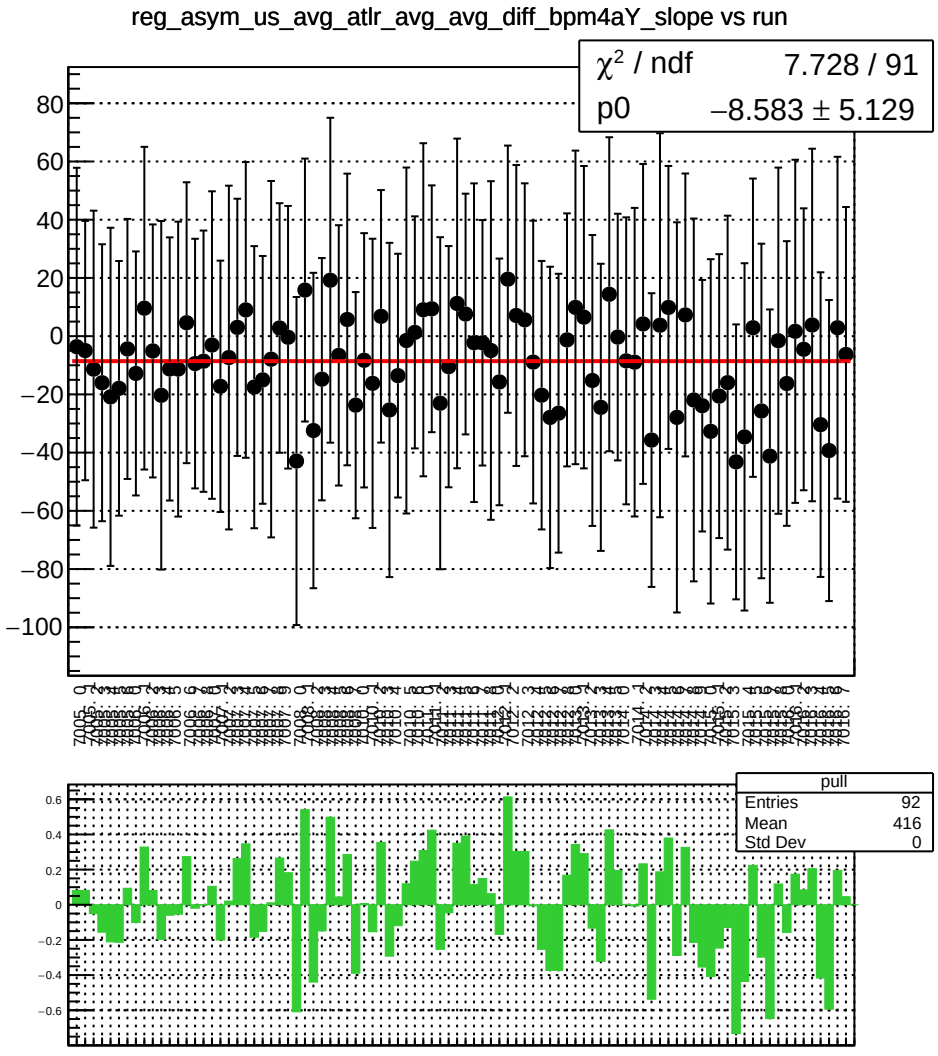

pull1D
Entries 92
Mean −0.00263
Std Dev 0.2309
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

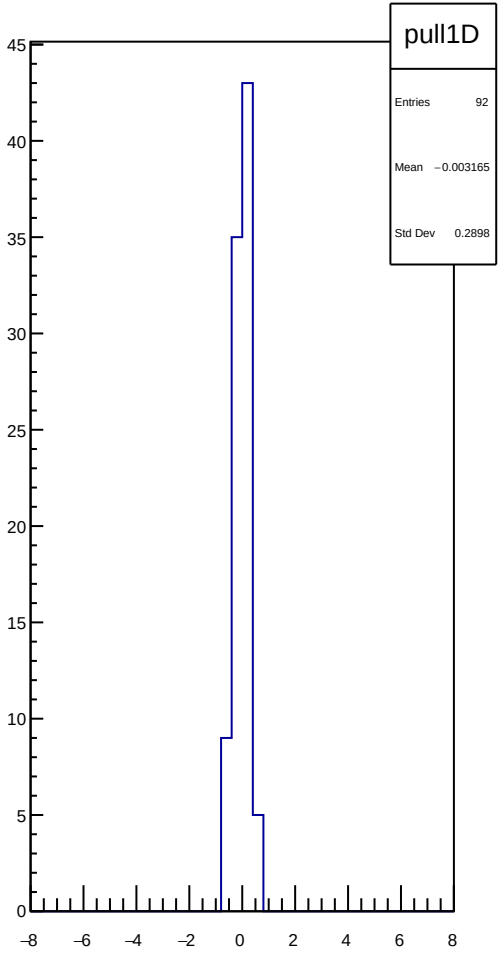

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.484 / 91
p0 −446.4 ± 8.608
−300
−350
−400
−450
−500
−550
−600
pull
Entries 92
Mean −125.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean −0.0006007
Std Dev 0.2852
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

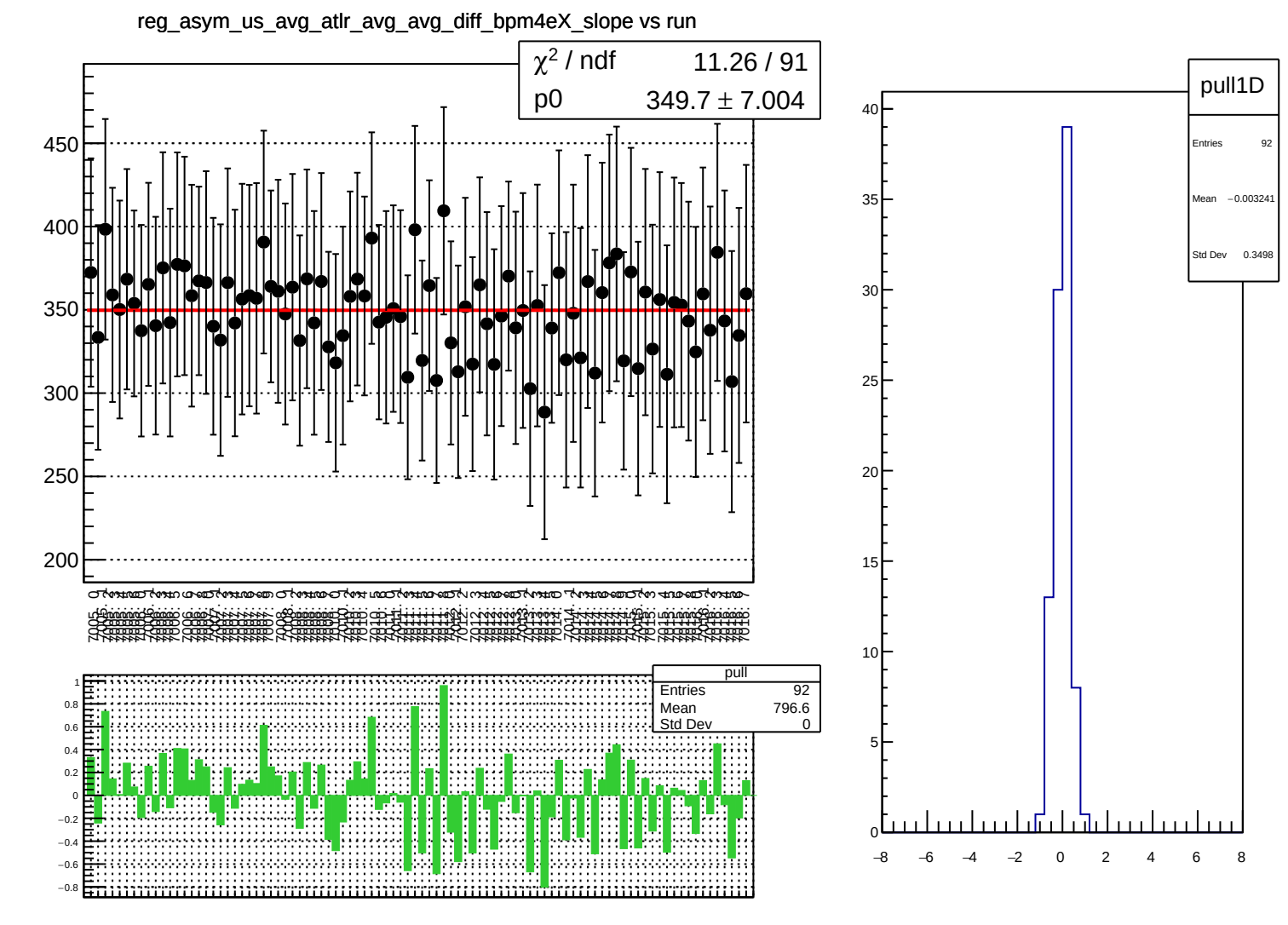

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.836 / 91
p0 −143.3 ± 6.604
−50
−100
−150
−200
−250
pull
Entries 92
Mean 649.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 92
Mean 0.003296
Std Dev 0.2518
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

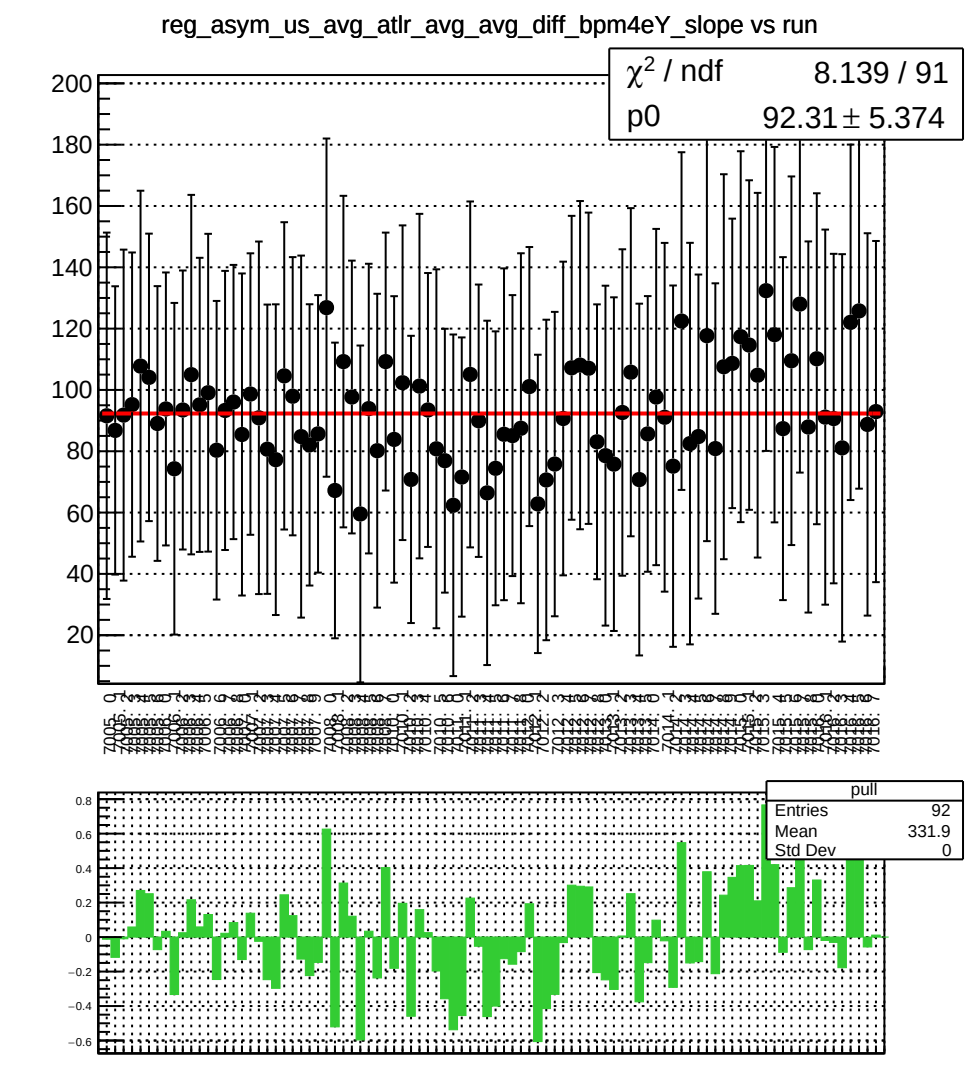

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 14.97 / 91
p0 228.7 ± 0.2972
pull
Entries 92
Mean 389.3
Std Dev 0
pull1D
Entries 92
Mean 0.01253
Std Dev 0.4031

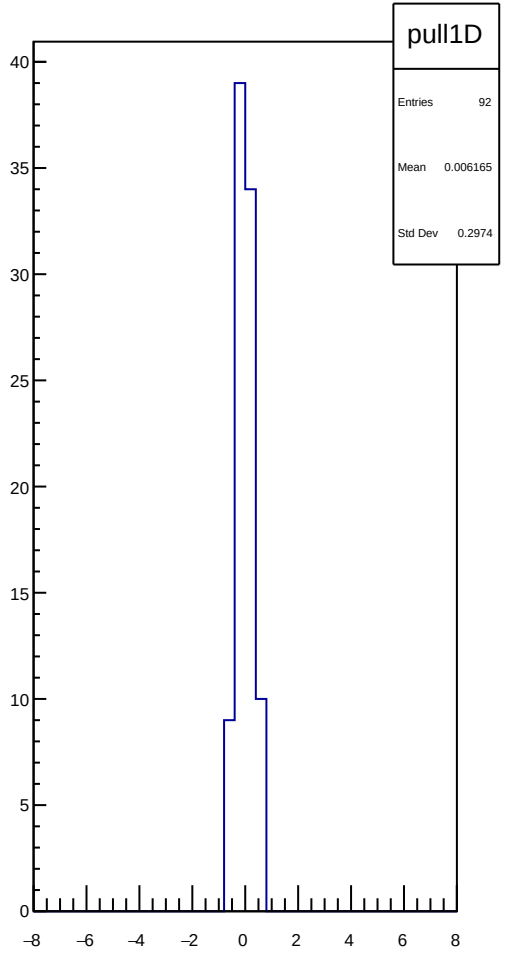

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.71 / 91
p0 −367.7 ± 7.565
−200
−250
−300
−350
−400
−450
−500
pull
Entries 92
Mean 663.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 92
Mean 0.003659
Std Dev 0.3567
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

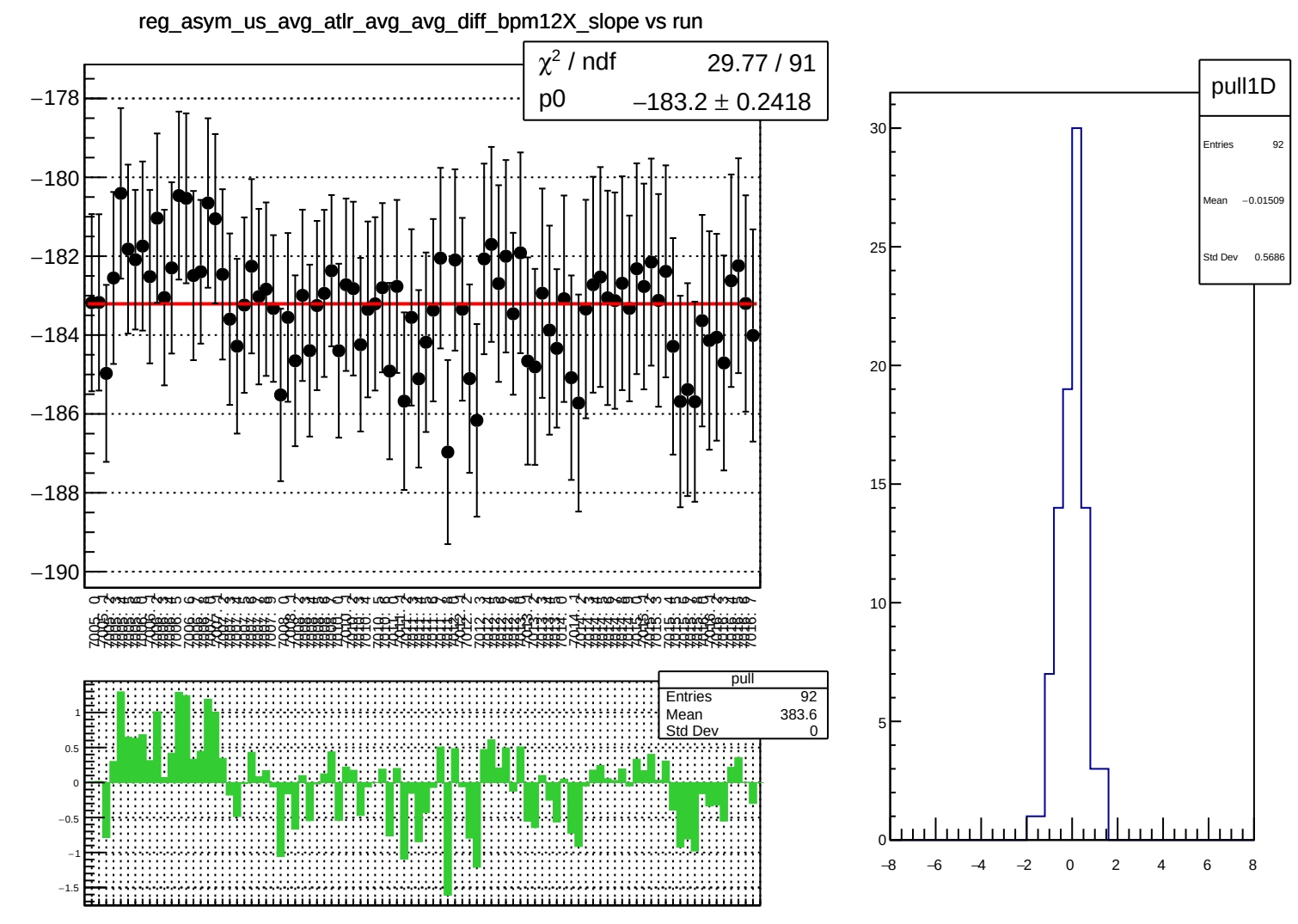

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.728 / 91
p0 −8.583 ± 5.129
pull
Entries 92
Mean 416
Std Dev 0

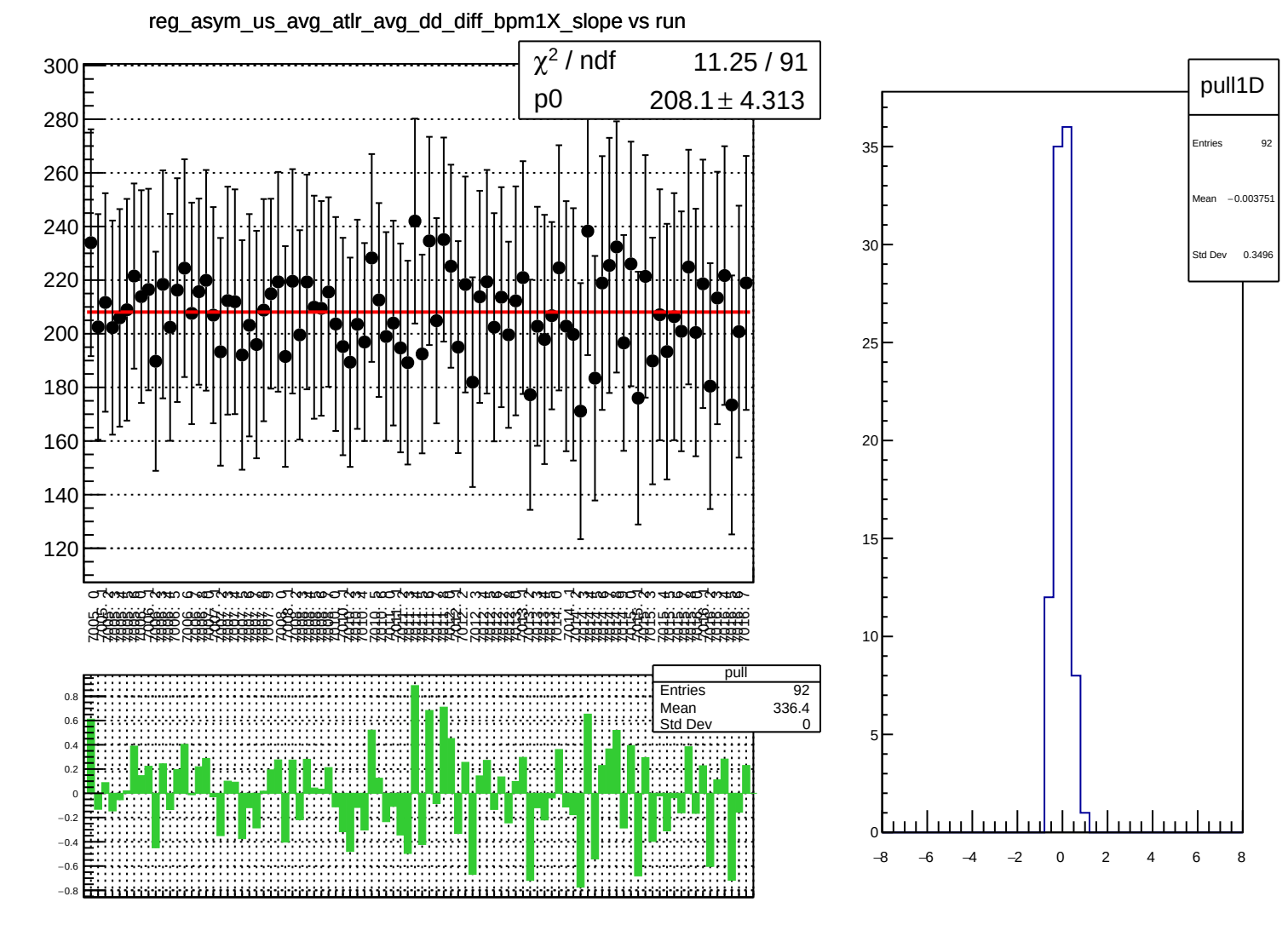

pull1D
Entries 92
Mean −0.003165
Std Dev 0.2898

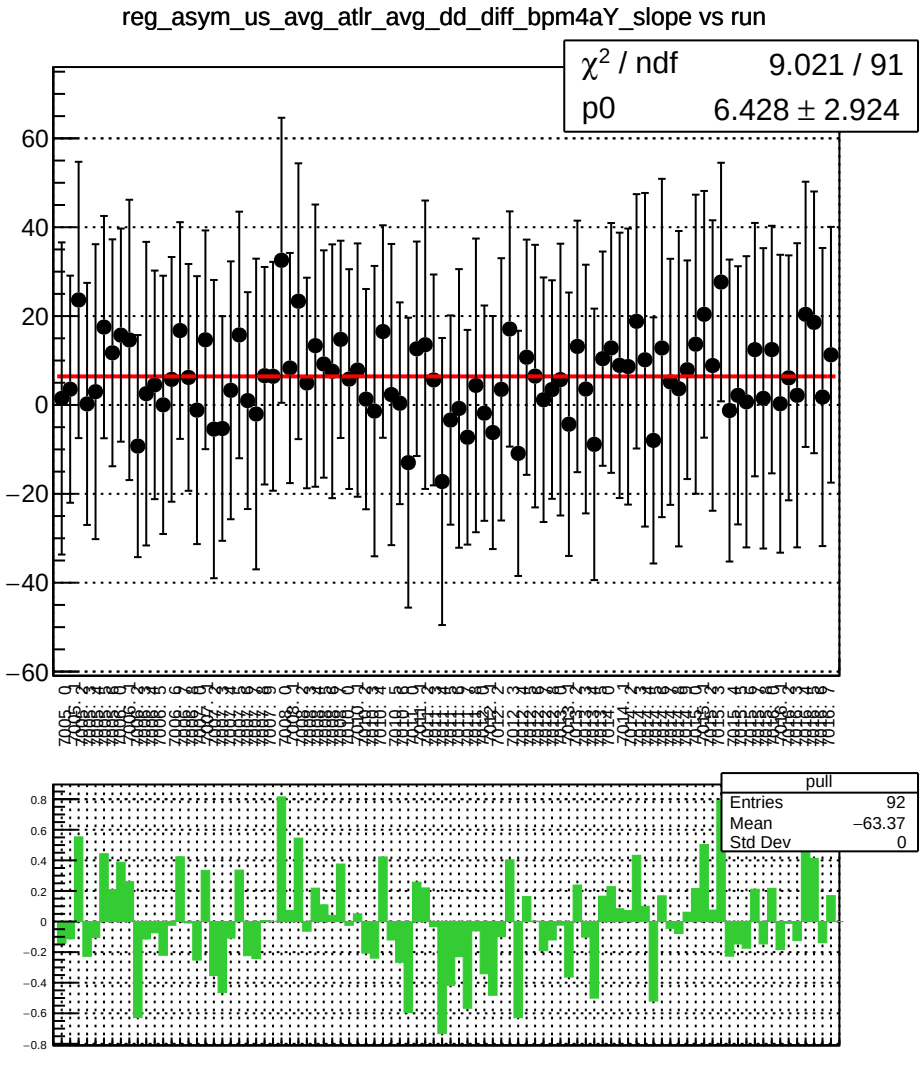

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.26 / 91
p0 349.7 ± 7.004
pull
Entries 92
Mean 796.6
Std Dev 0
pull1D
Entries 92
Mean −0.003241
Std Dev 0.3498

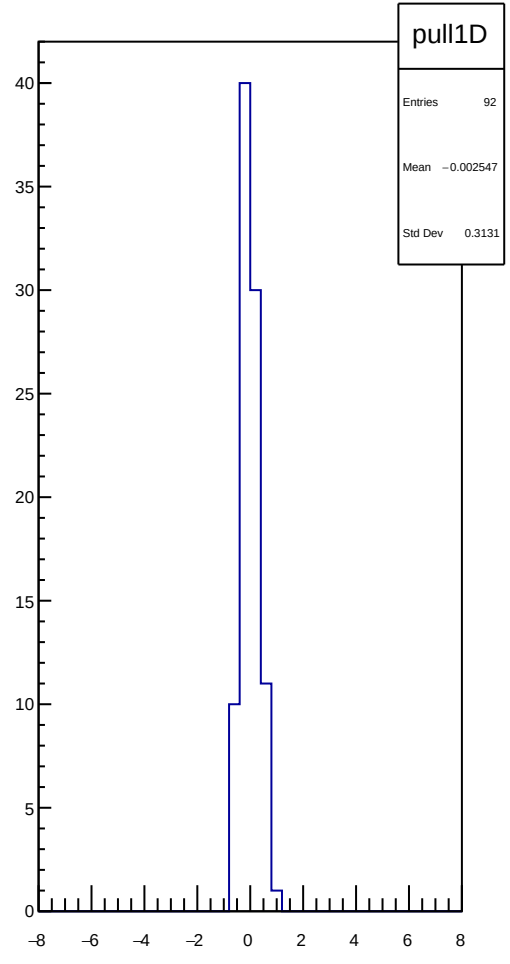

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.139 / 91
p0 92.31 ± 5.374
pull
Entries 92
Mean 331.9
Std Dev 0

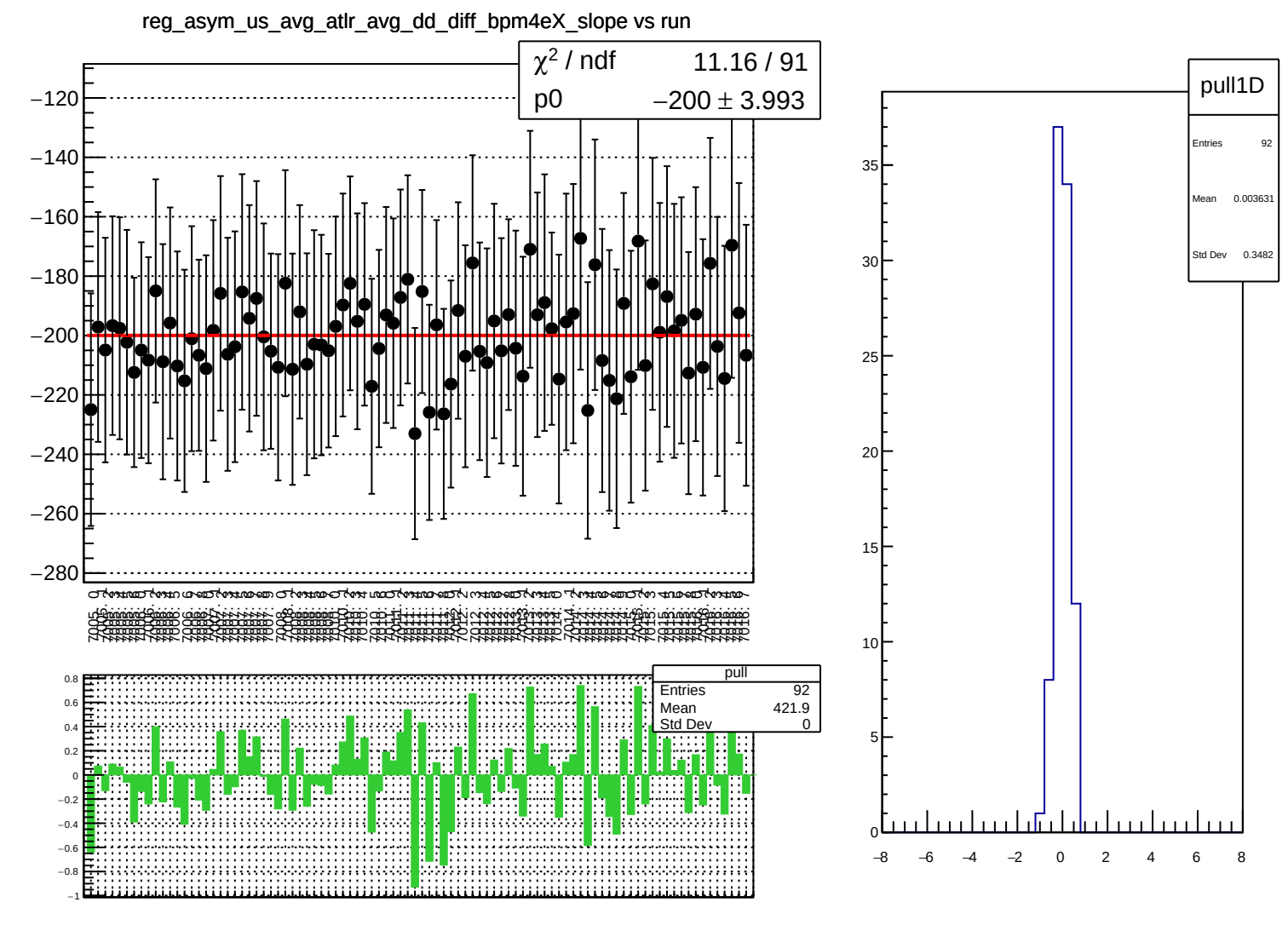

pull1D
Entries 92
Mean 0.006165
Std Dev 0.2974

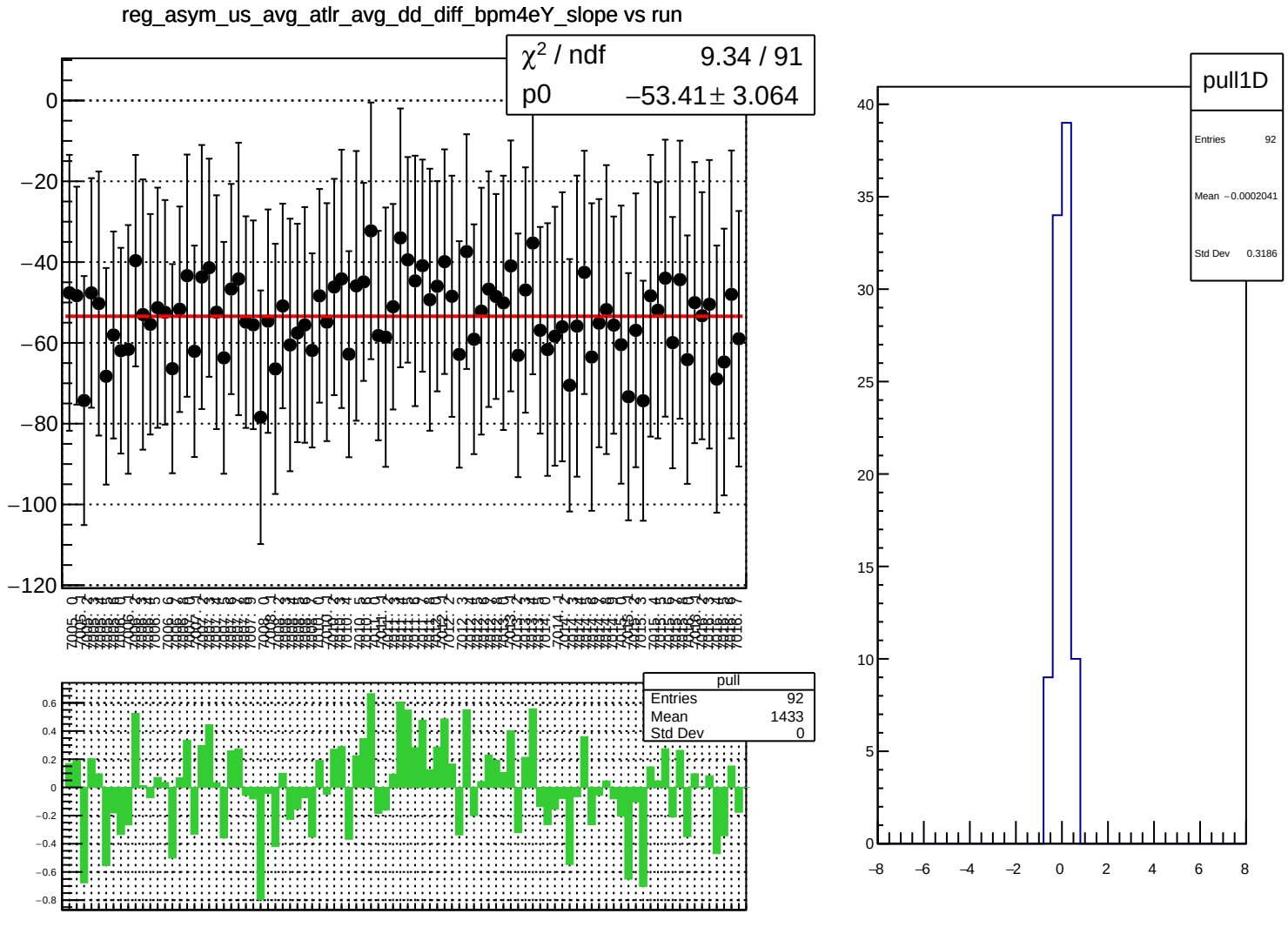

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 29.77 / 91
p0 −183.2 ± 0.2418
−178
−180
−182
−184
−186
−188
−190
pull
Entries 92
Mean 383.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.01509
Std Dev 0.5686
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

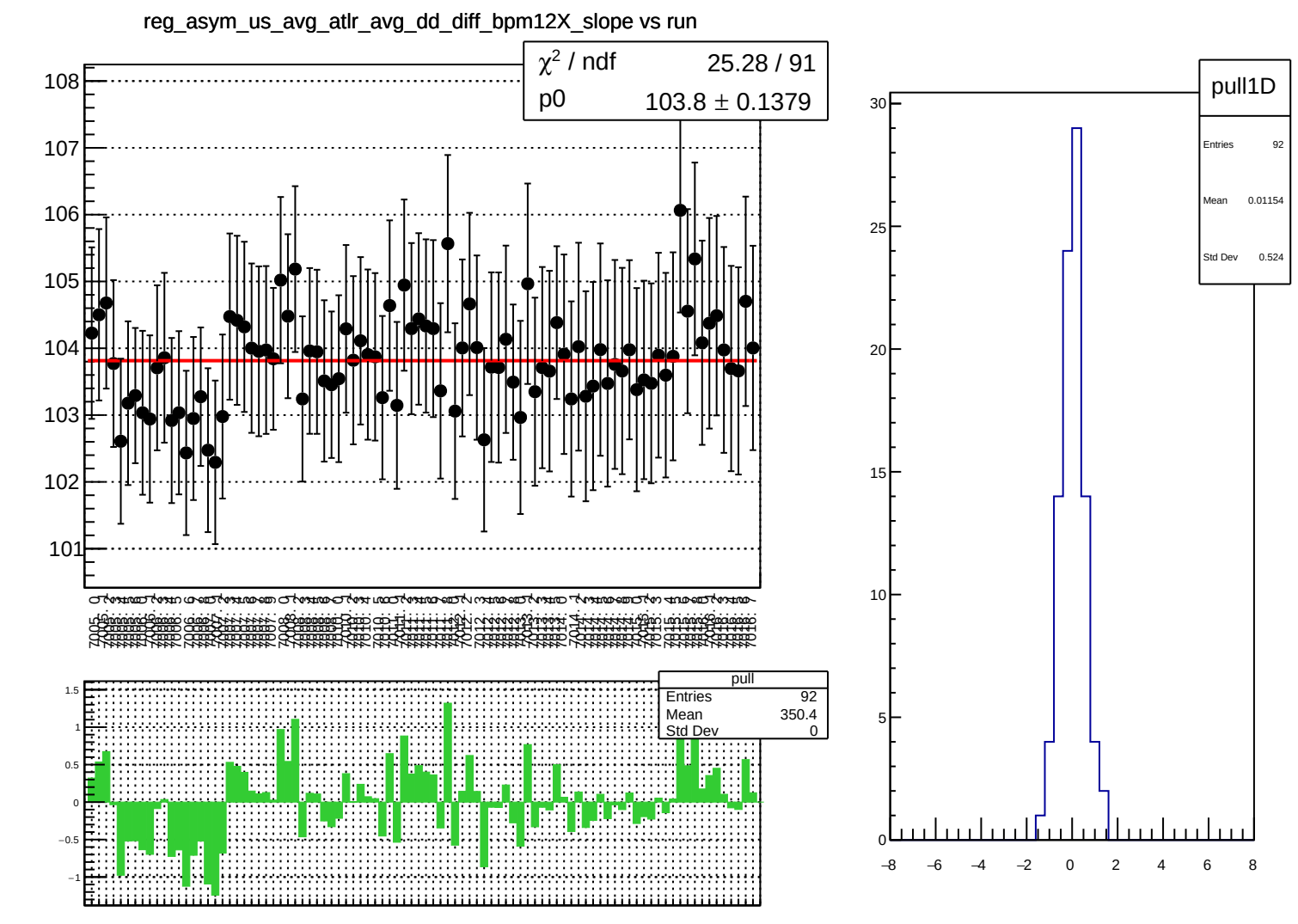

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
$\chi^2$ / ndf 11.25 / 91
p0 208.1 ± 4.313
pull
Entries 92
Mean 336.4
Std Dev 0
pull1D
Entries 92
Mean −0.003751
Std Dev 0.3496

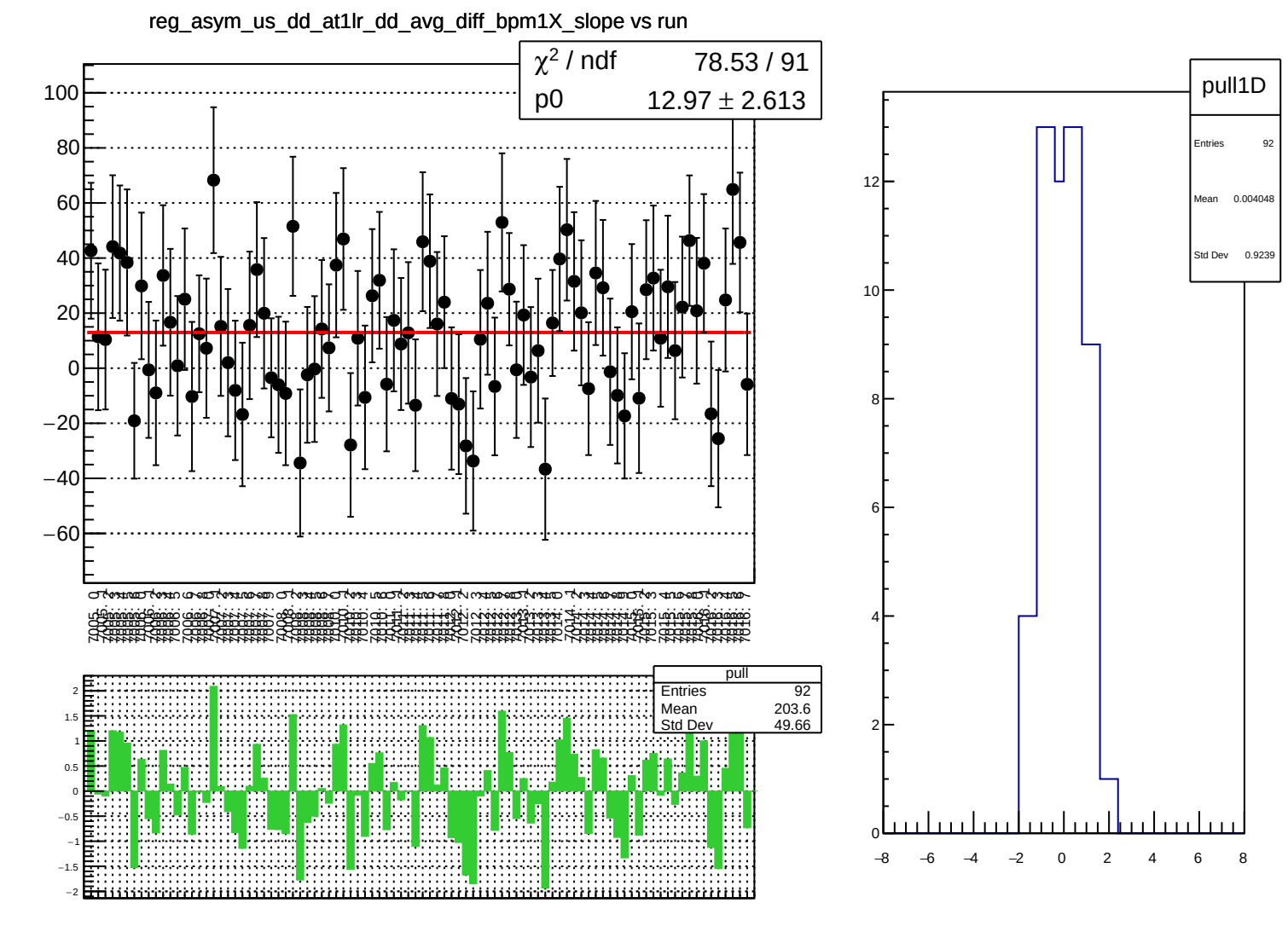

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.021 / 91
p0 6.428 ± 2.924
pull
Entries 92
Mean −63.37
Std Dev 0

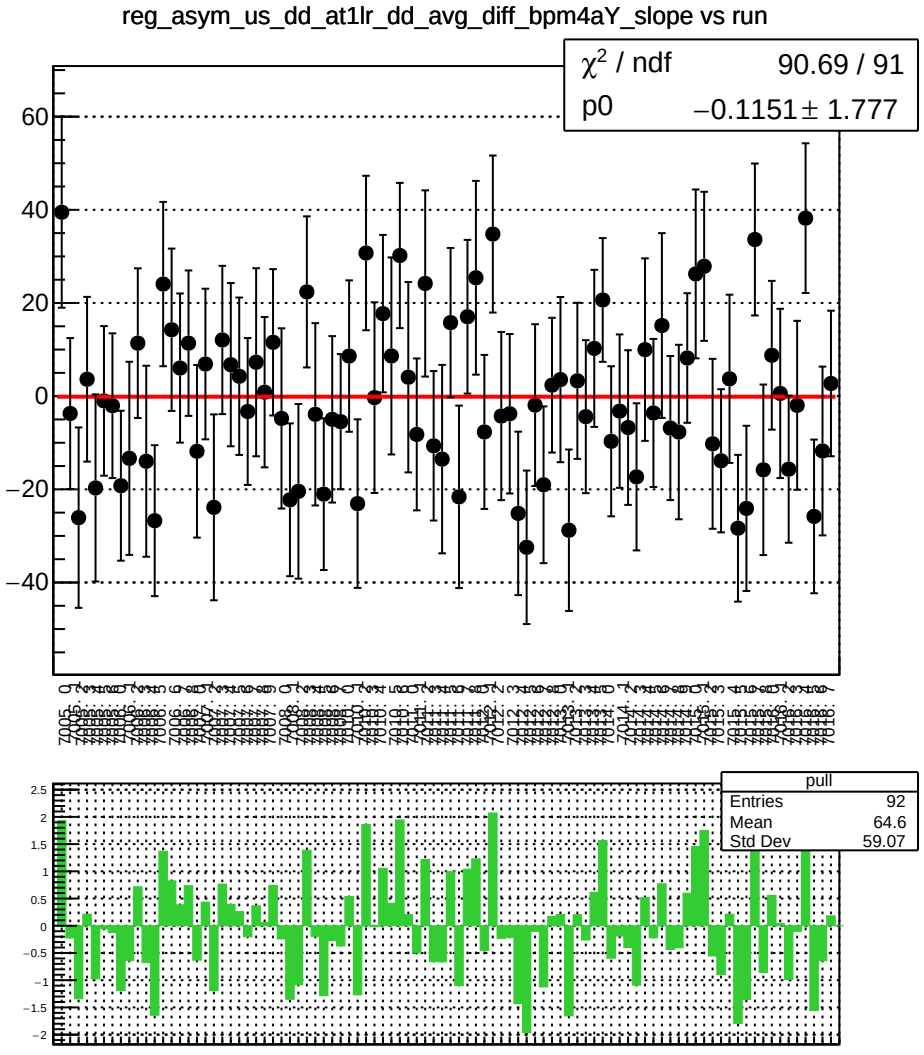

pull1D
Entries 92
Mean −0.002547
Std Dev 0.3131

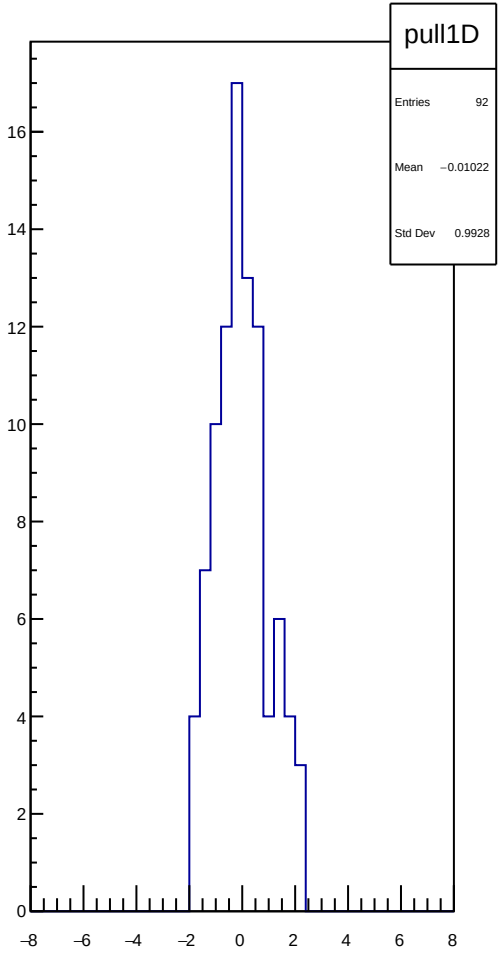

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.16 / 91
p0 −200 ± 3.993
pull
Entries 92
Mean 421.9
Std Dev 0
pull1D
Entries 92
Mean 0.003631
Std Dev 0.3482

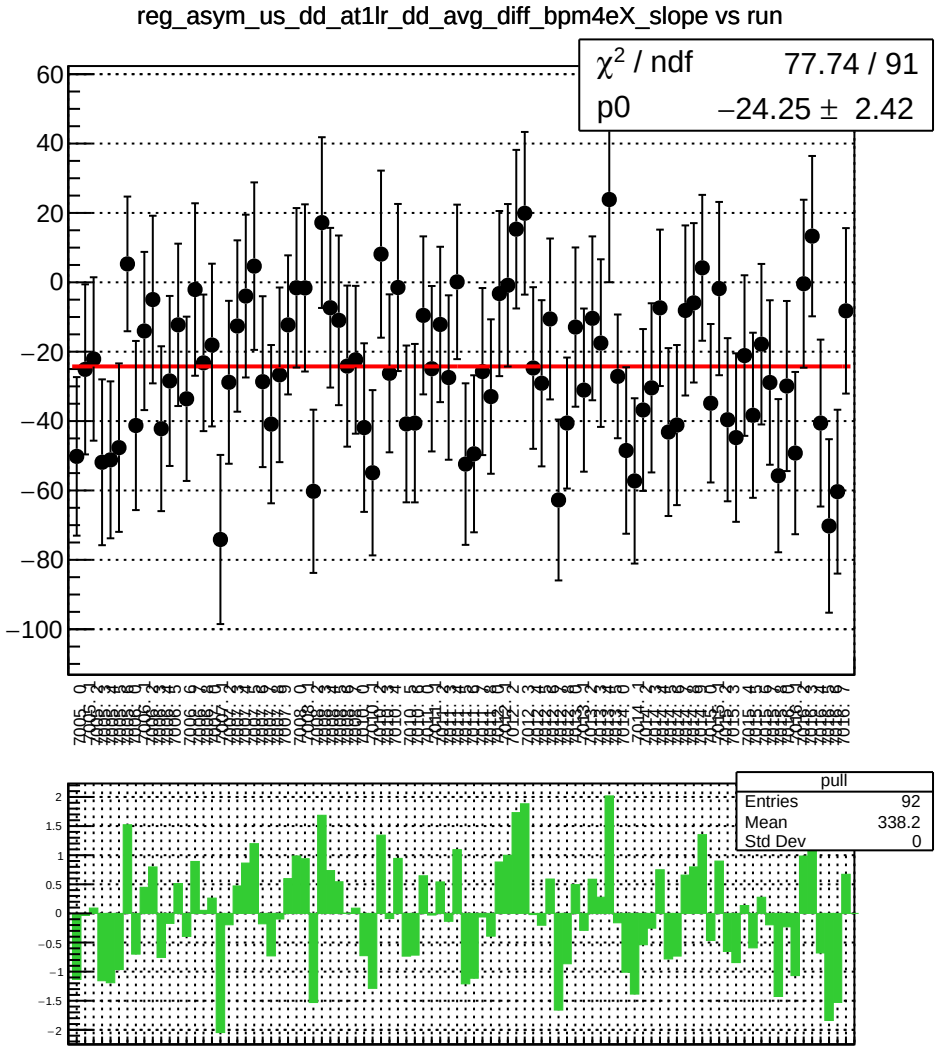

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.34 / 91
p0 −53.41 ± 3.064
pull
Entries 92
Mean 1433
Std Dev 0
pull1D
Entries 92
Mean −0.0002041
Std Dev 0.3186

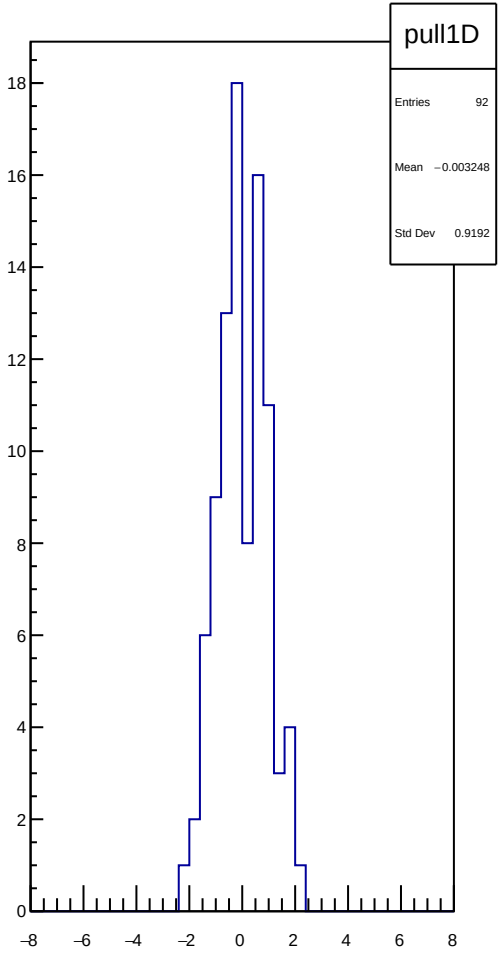

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 25.28 / 91
p0 103.8 ± 0.1379
pull
Entries 92
Mean 350.4
Std Dev 0
pull1D
Entries 92
Mean 0.01154
Std Dev 0.524

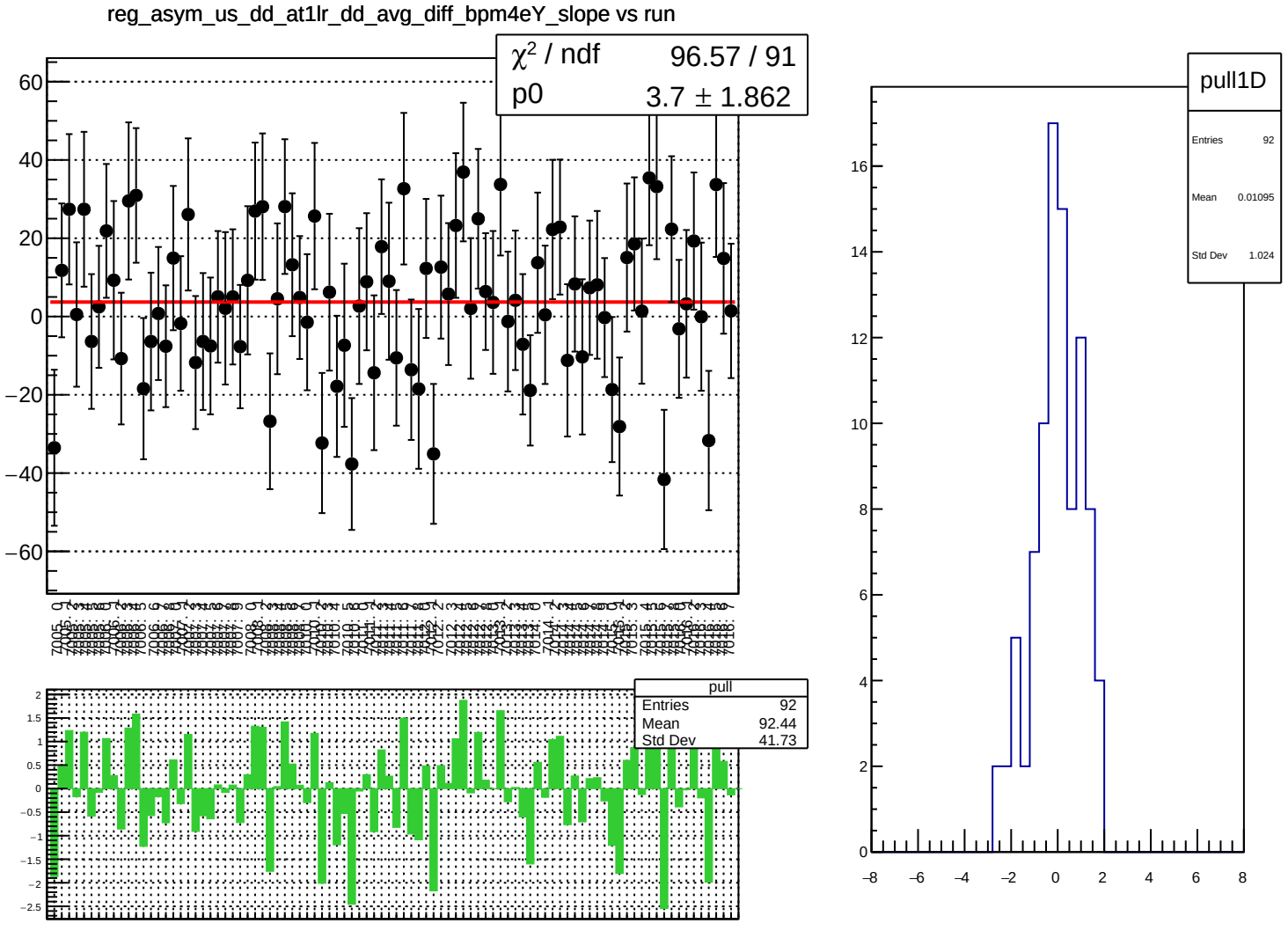

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 78.53 / 91
p0 12.97 ± 2.613
pull
Entries 92
Mean 203.6
Std Dev 49.66
pull1D
Entries 92
Mean 0.004048
Std Dev 0.9239

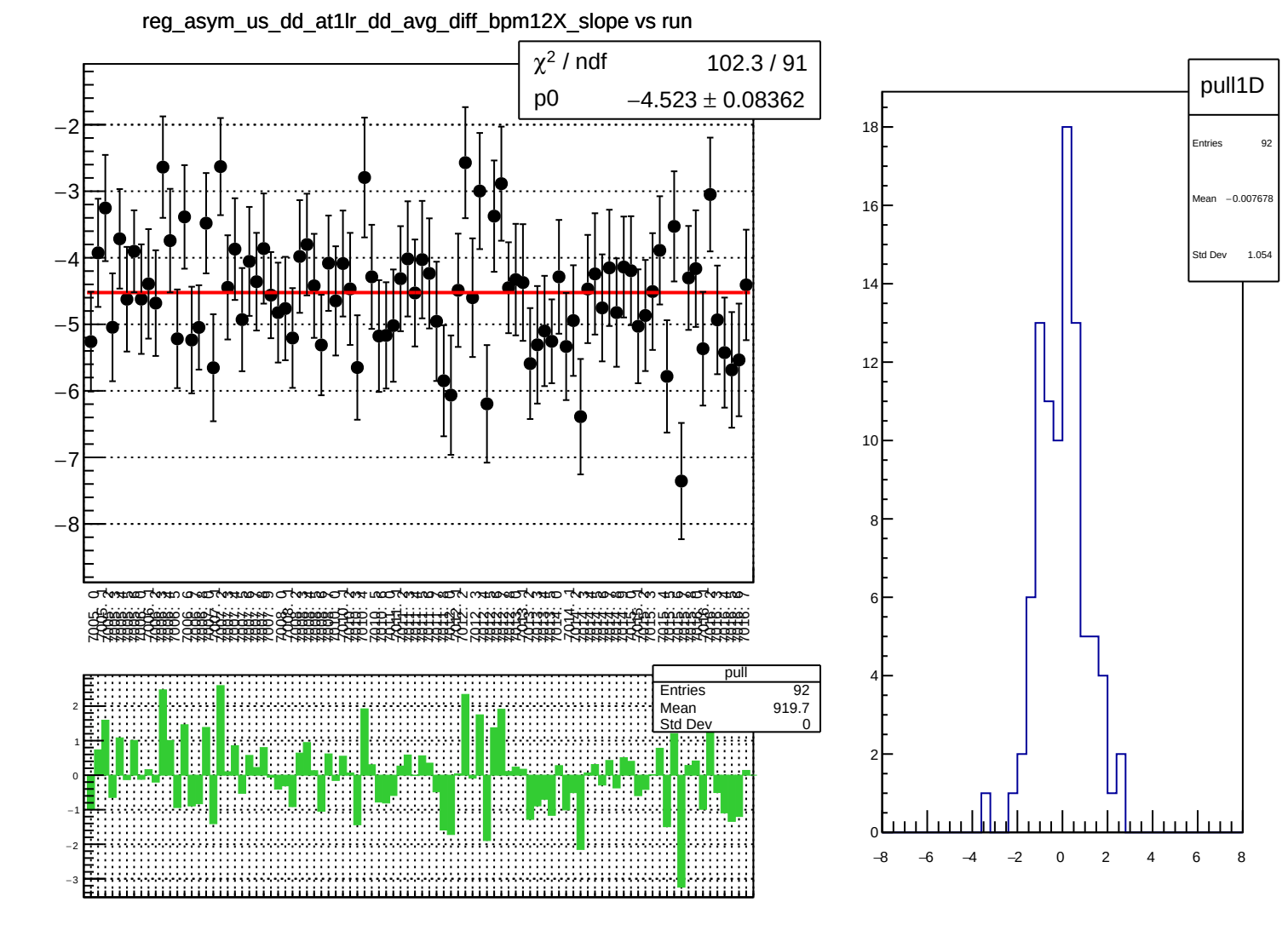

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.69 / 91
p0 −0.1151 ± 1.777
pull
Entries 92
Mean 64.6
Std Dev 59.07

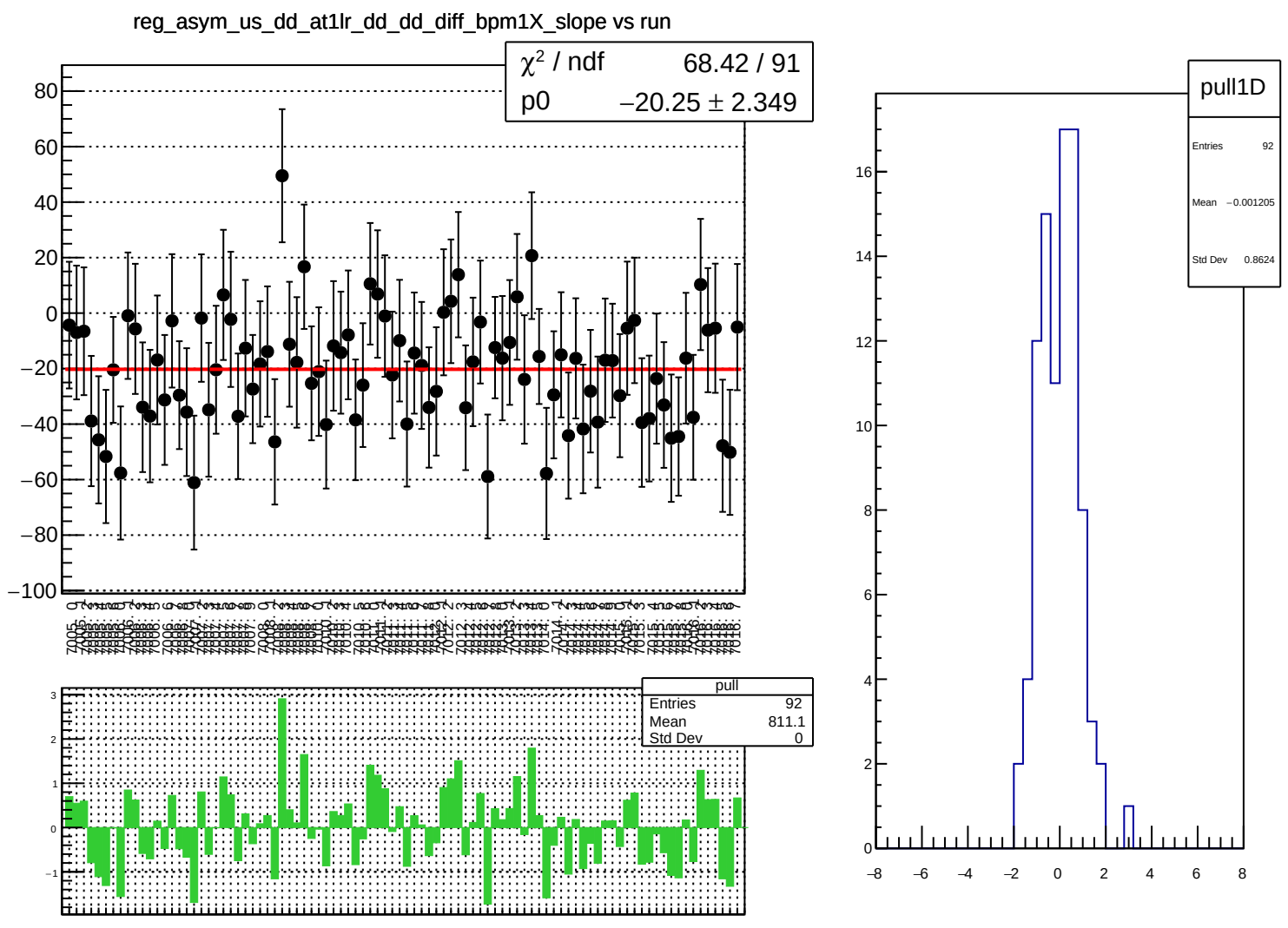

pull1D
Entries 92
Mean −0.01022
Std Dev 0.9928

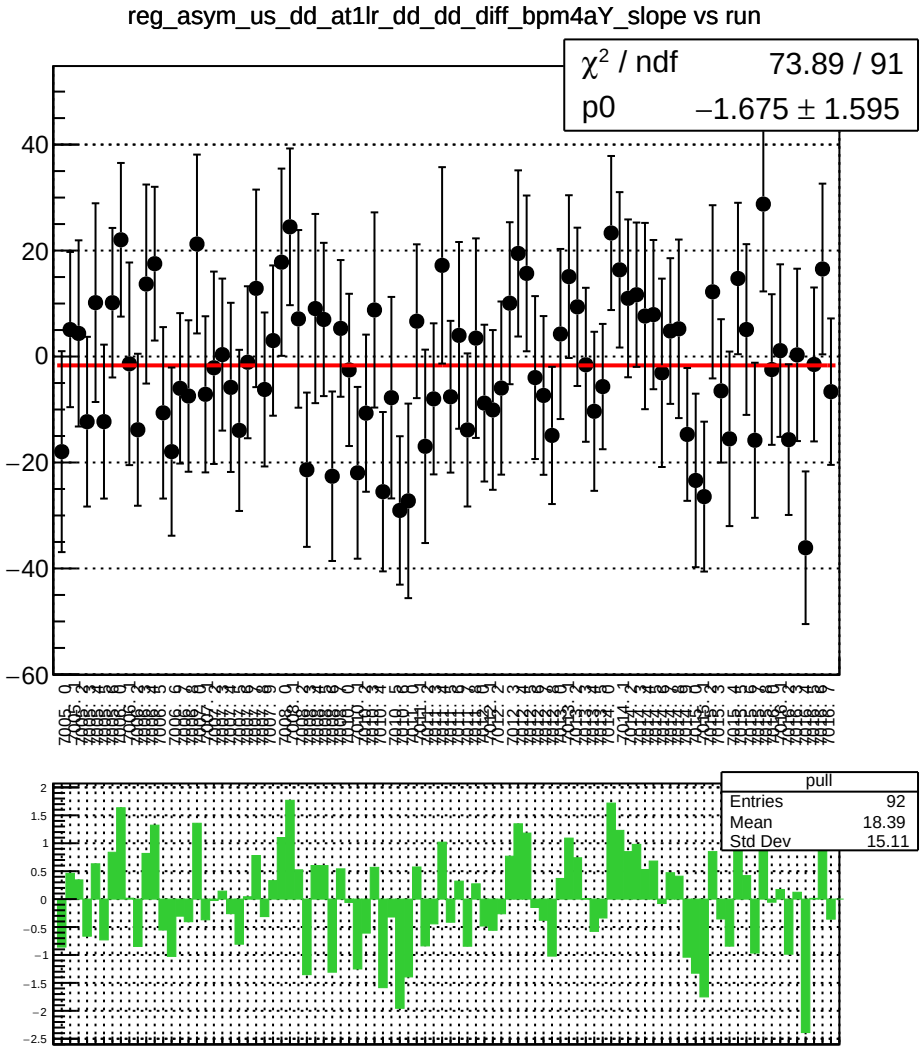

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.74 / 91
p0 −24.25 ± 2.42
pull
Entries 92
Mean 338.2
Std Dev 0

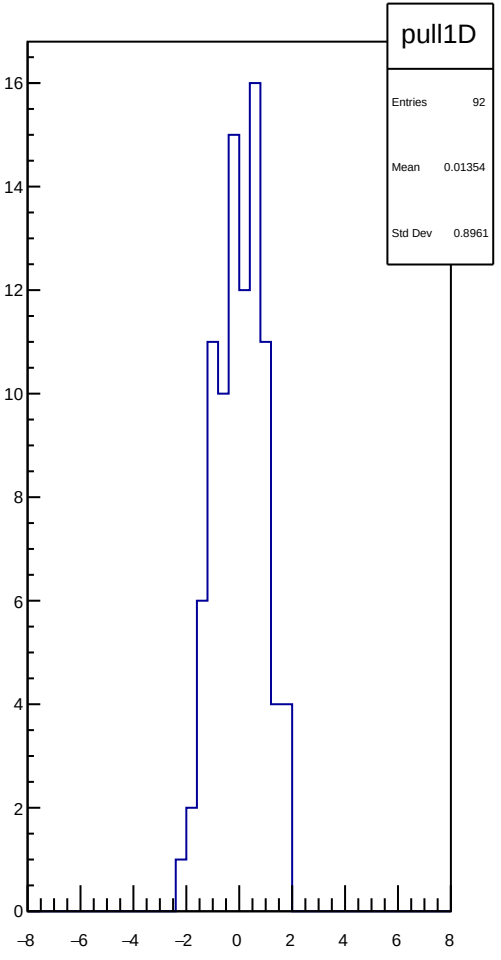

pull1D
Entries 92
Mean −0.003248
Std Dev 0.9192

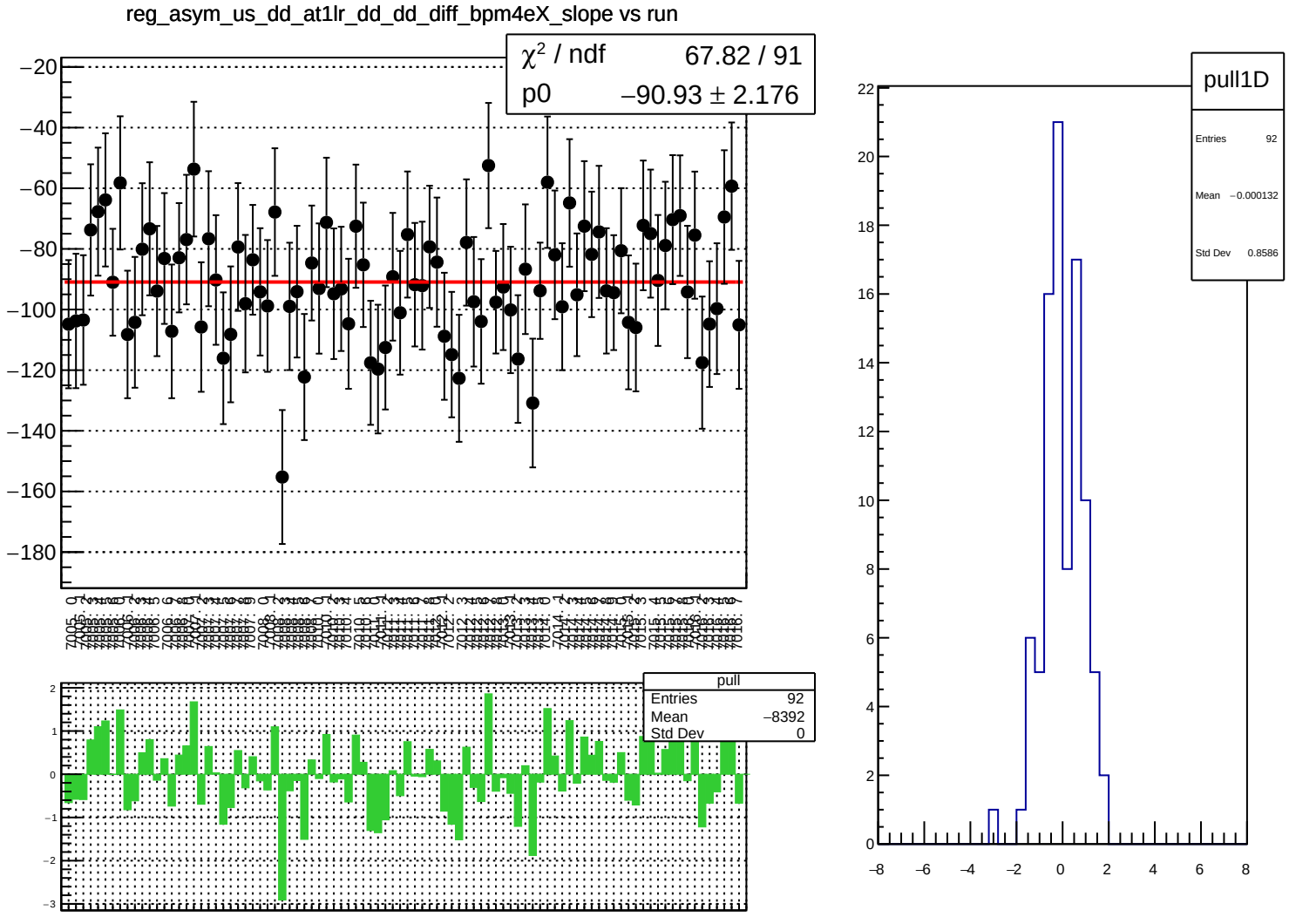

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 96.57 / 91
p0 3.7 ± 1.862
pull
Entries 92
Mean 92.44
Std Dev 41.73
pull1D
Entries 92
Mean 0.01095
Std Dev 1.024

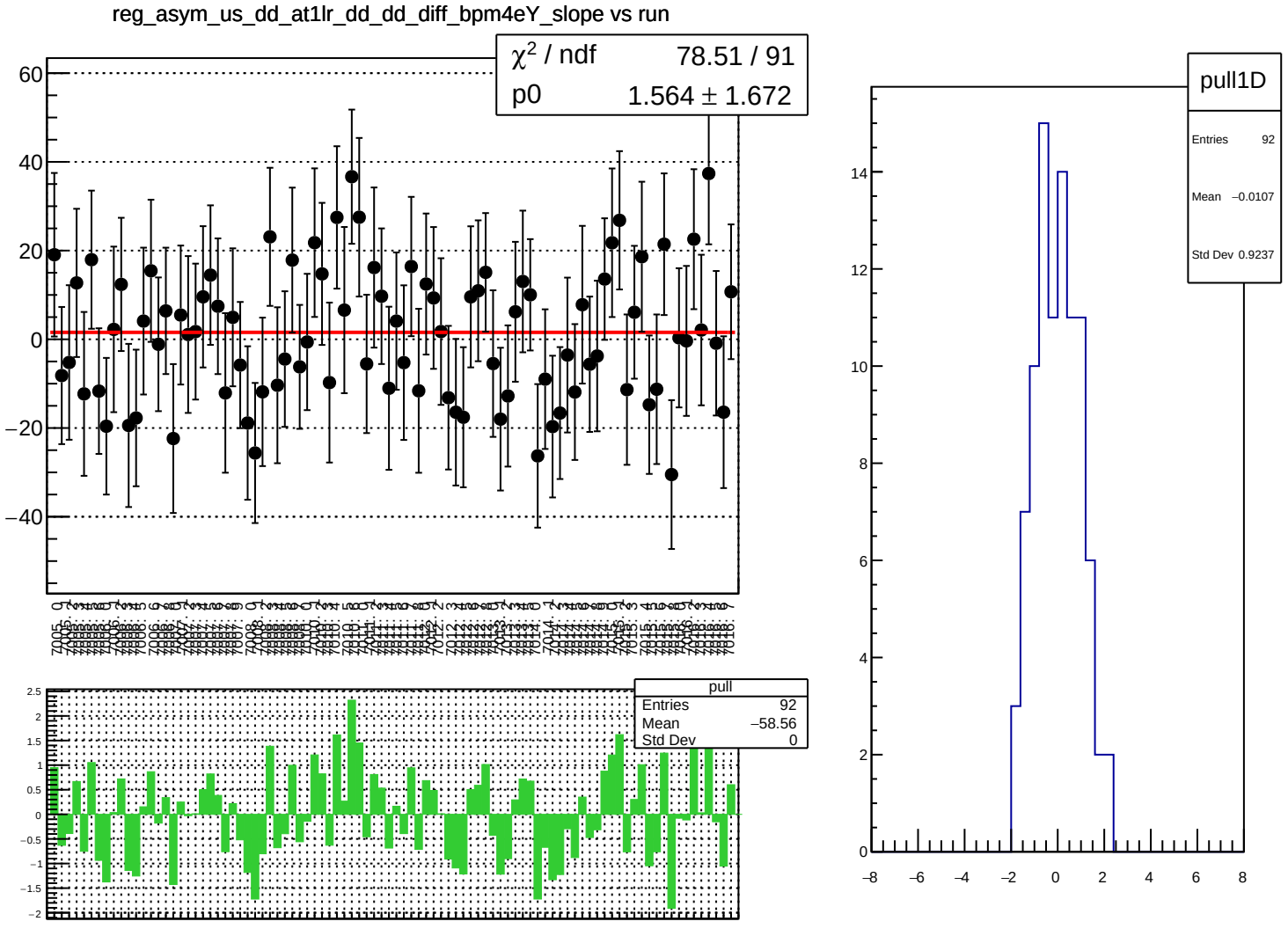

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 102.3 / 91
p0 −4.523 ± 0.08362
pull
Entries 92
Mean 919.7
Std Dev 0
pull1D
Entries 92
Mean −0.007678
Std Dev 1.054

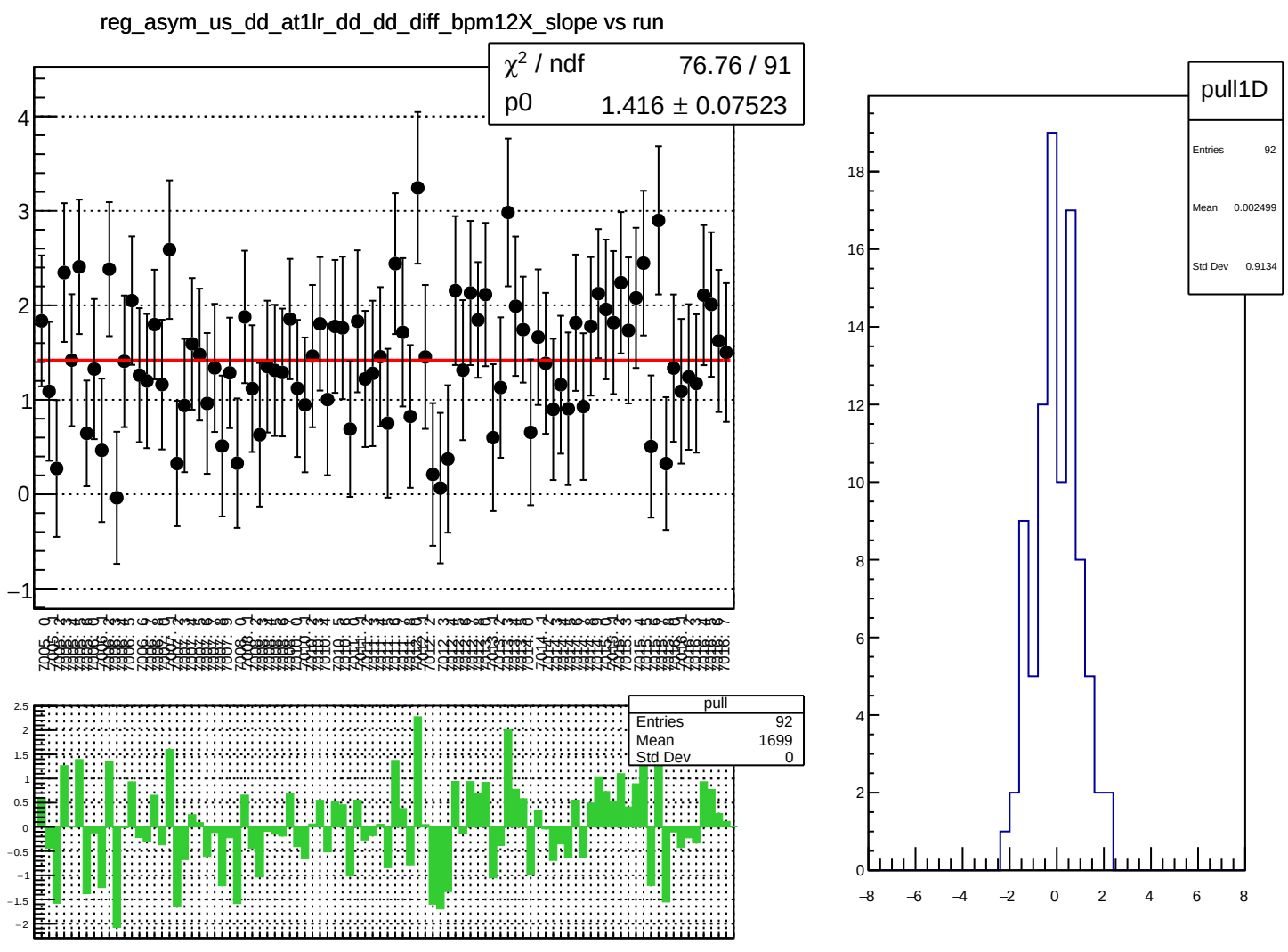

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 68.42 / 91
p0 −20.25 ± 2.349
pull
Entries 92
Mean 811.1
Std Dev 0
pull1D
Entries 92
Mean −0.001205
Std Dev 0.8624

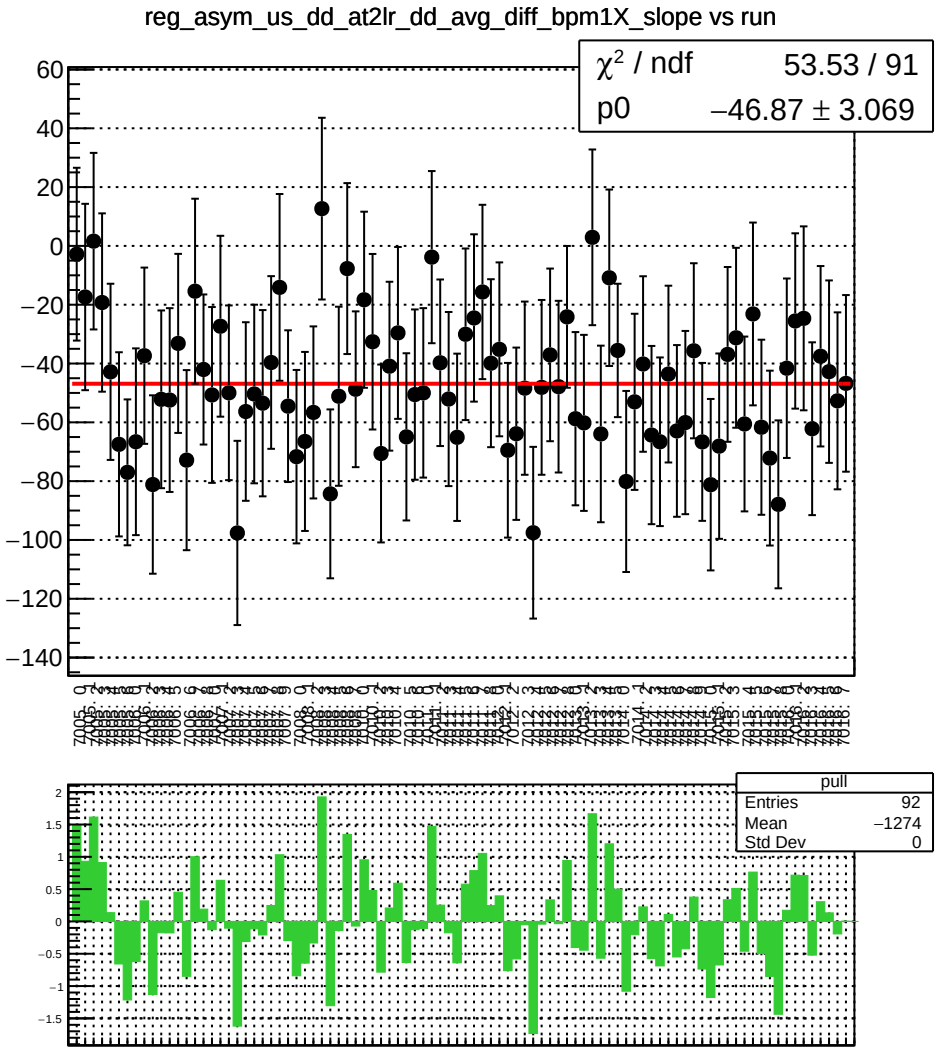

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.89 / 91
p0 −1.675 ± 1.595
pull
Entries 92
Mean 18.39
Std Dev 15.11

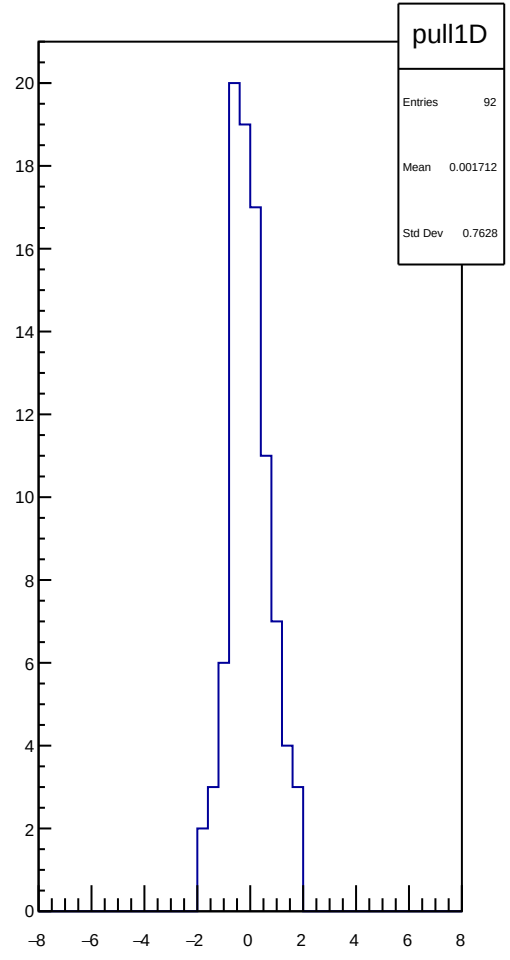

pull1D
Entries 92
Mean 0.01354
Std Dev 0.8961

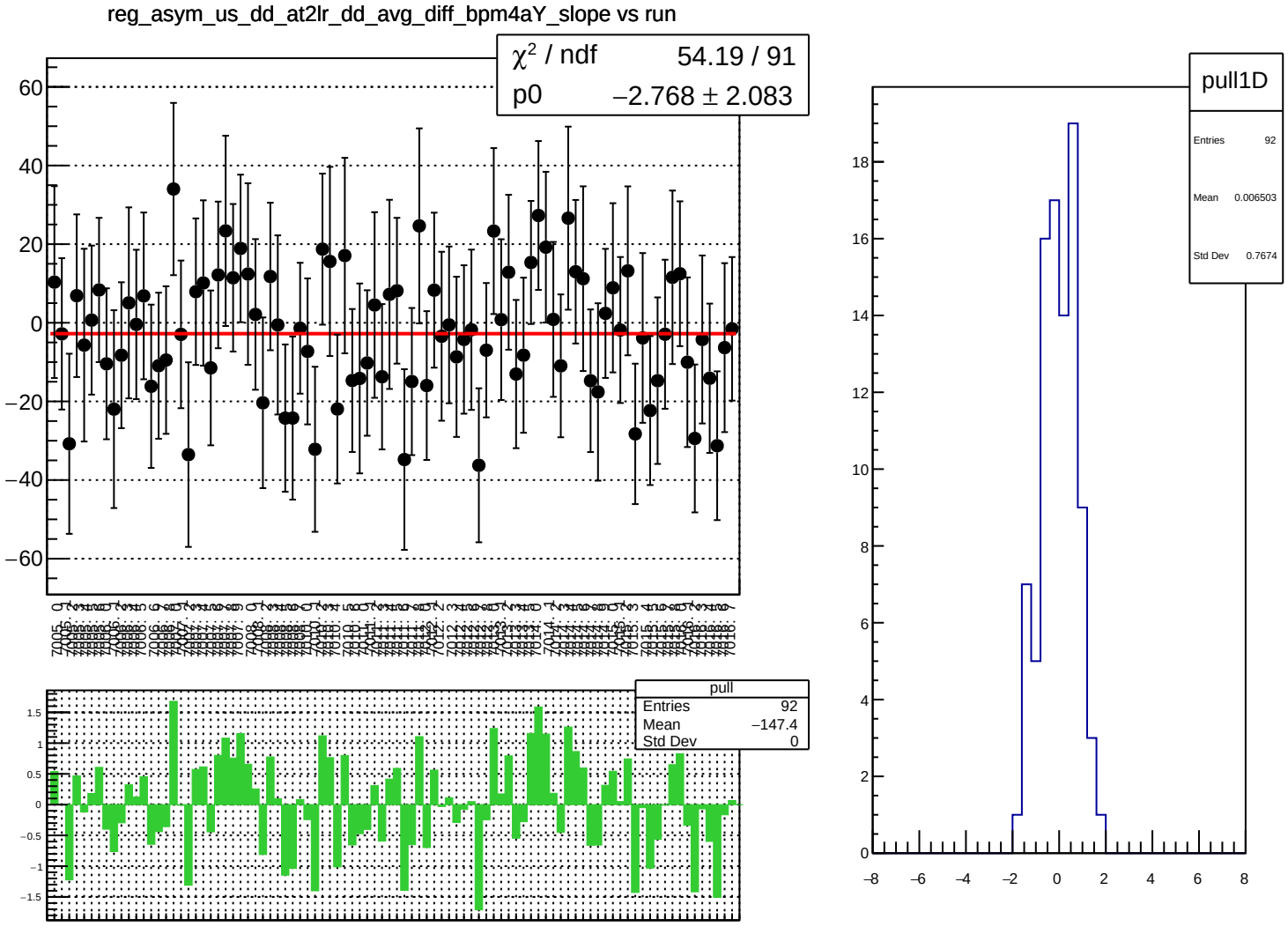

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.82 / 91
p0 −90.93 ± 2.176
pull
Entries 92
Mean −8392
Std Dev 0
pull1D
Entries 92
Mean −0.000132
Std Dev 0.8586

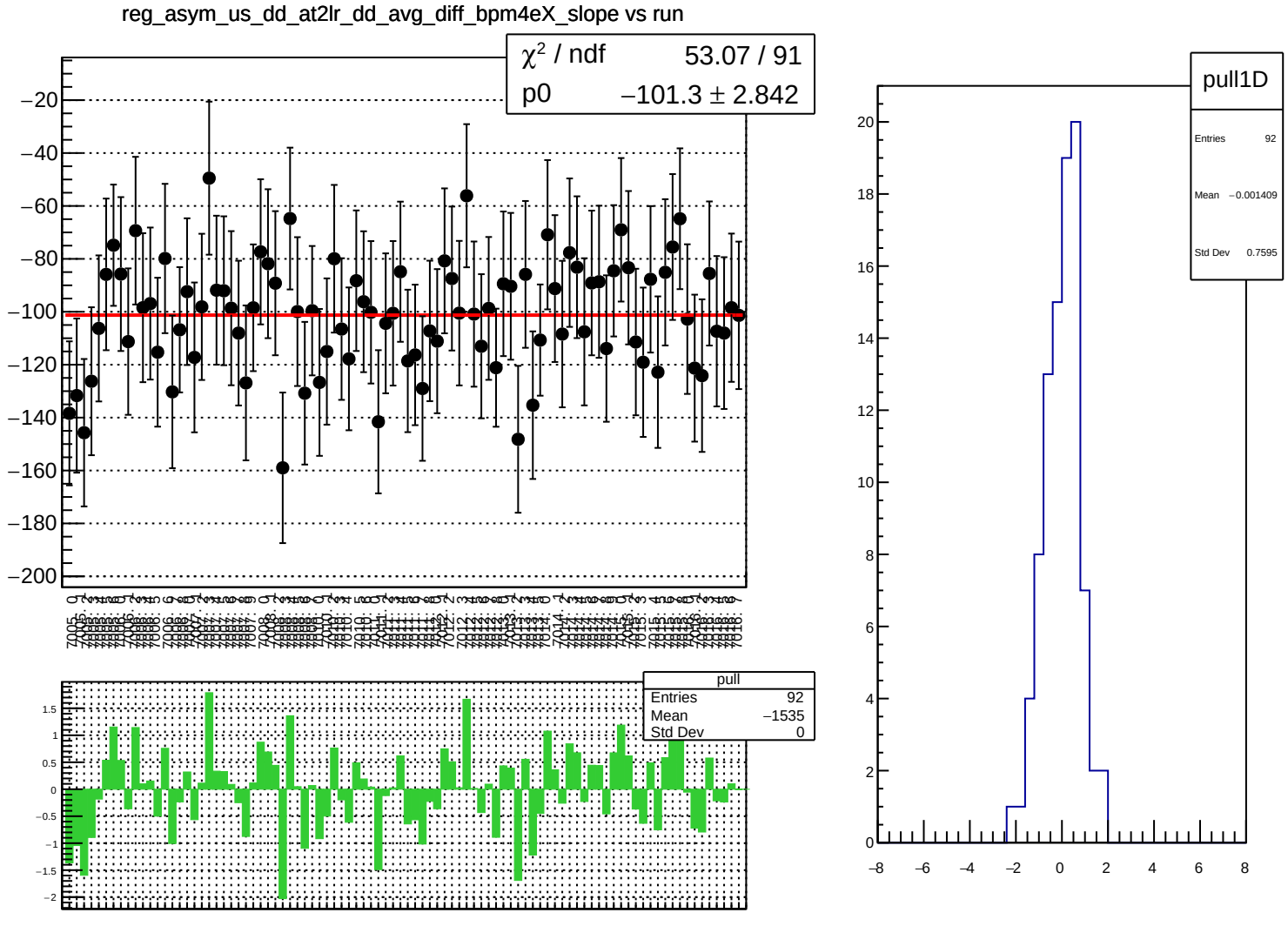

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.51 / 91
p0 1.564 ± 1.672
pull
Entries 92
Mean −58.56
Std Dev 0
pull1D
Entries 92
Mean −0.0107
Std Dev 0.9237

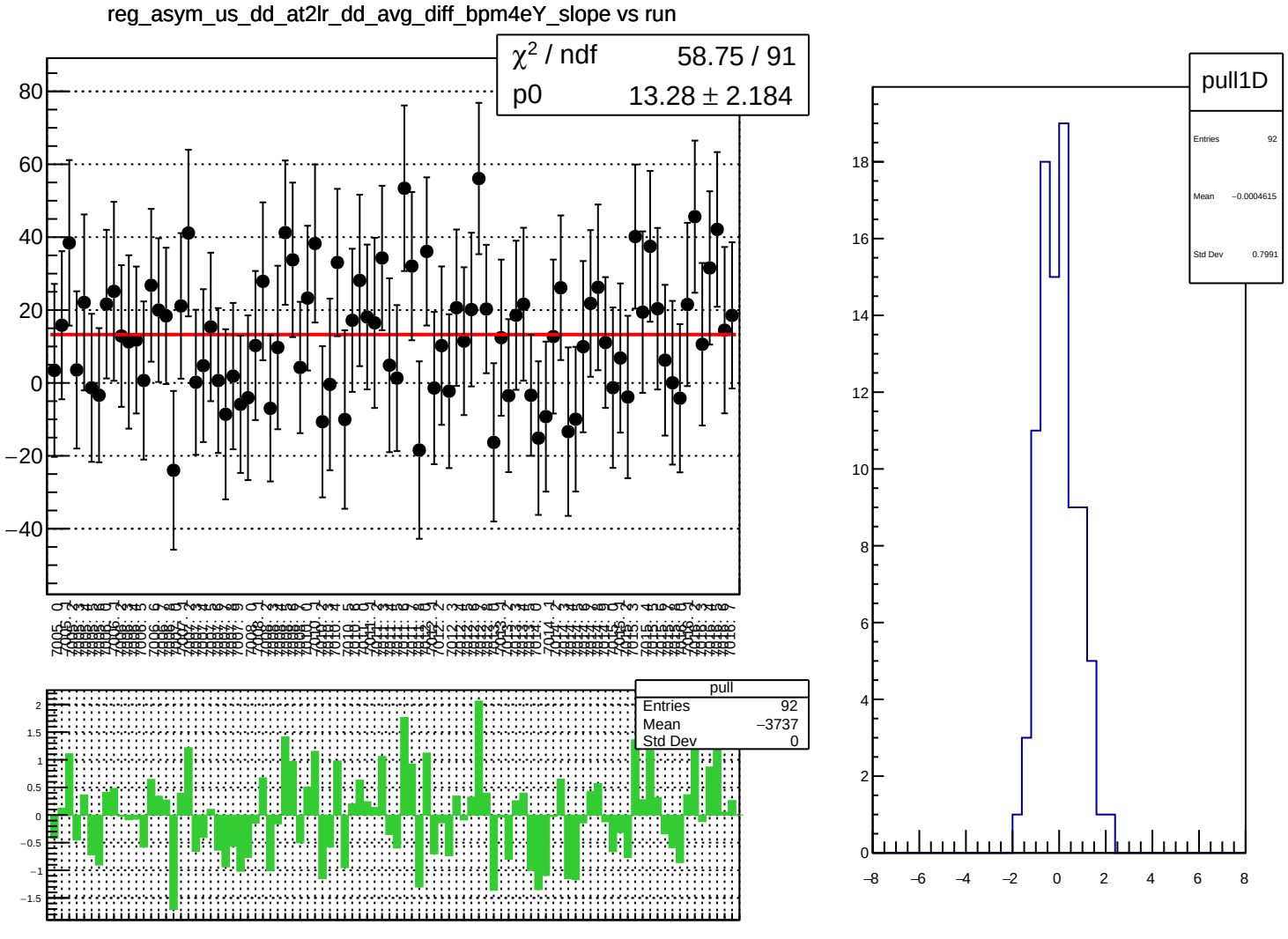

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 76.76 / 91
p0 1.416 ± 0.07523
pull
Entries 92
Mean 1699
Std Dev 0
pull1D
Entries 92
Mean 0.002499
Std Dev 0.9134

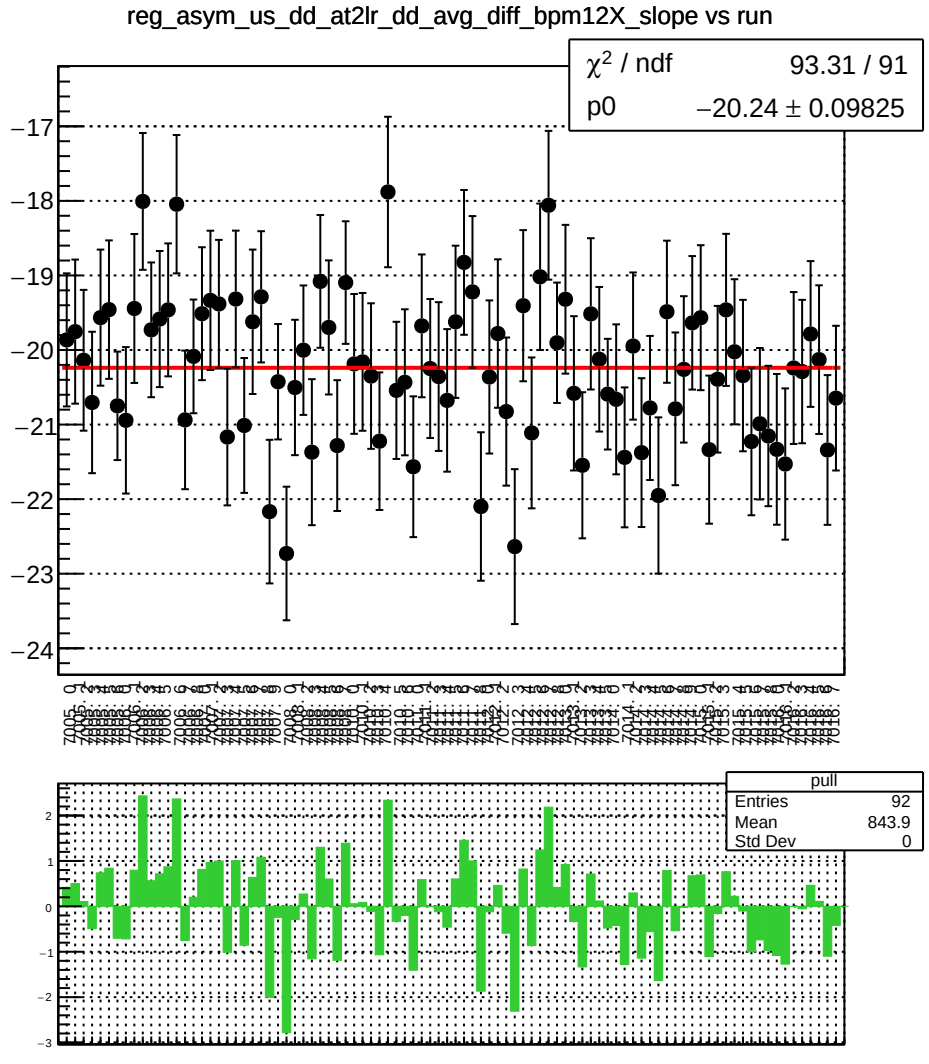

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 53.53 / 91
p0 −46.87 ± 3.069
pull
Entries 92
Mean −1274
Std Dev 0

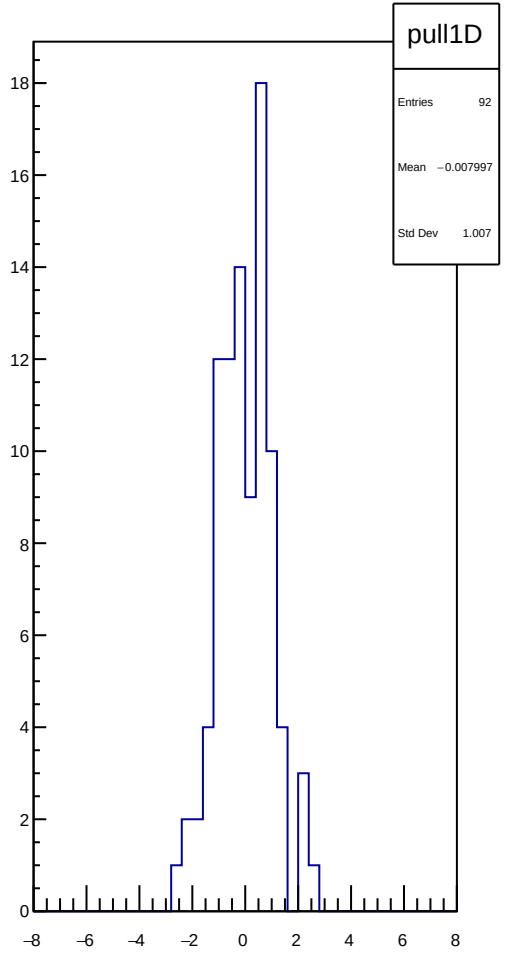

pull1D
Entries 92
Mean 0.001712
Std Dev 0.7628

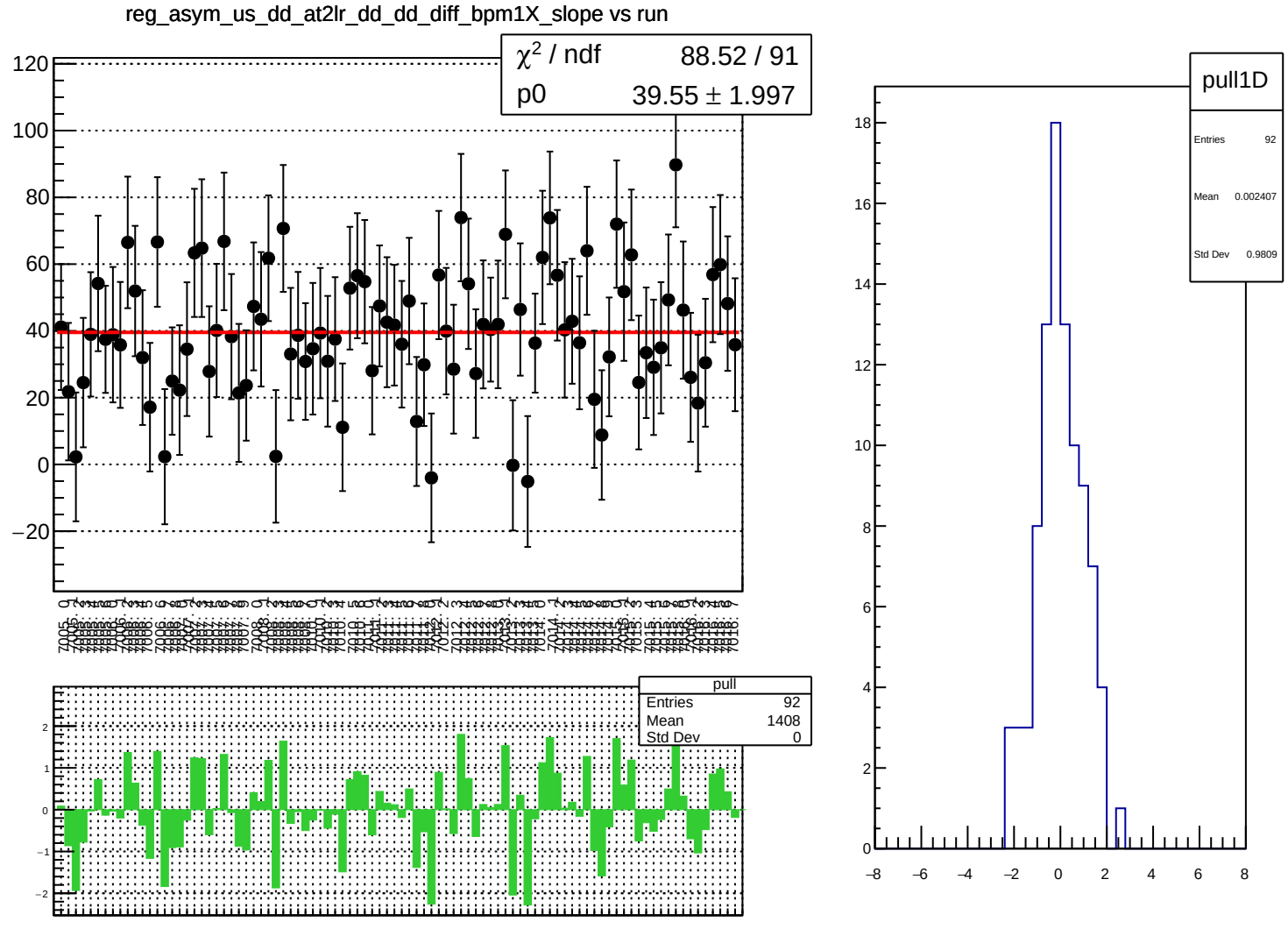

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 54.19 / 91
p0 −2.768 ± 2.083
pull
Entries 92
Mean −147.4
Std Dev 0
pull1D
Entries 92
Mean 0.006503
Std Dev 0.7674

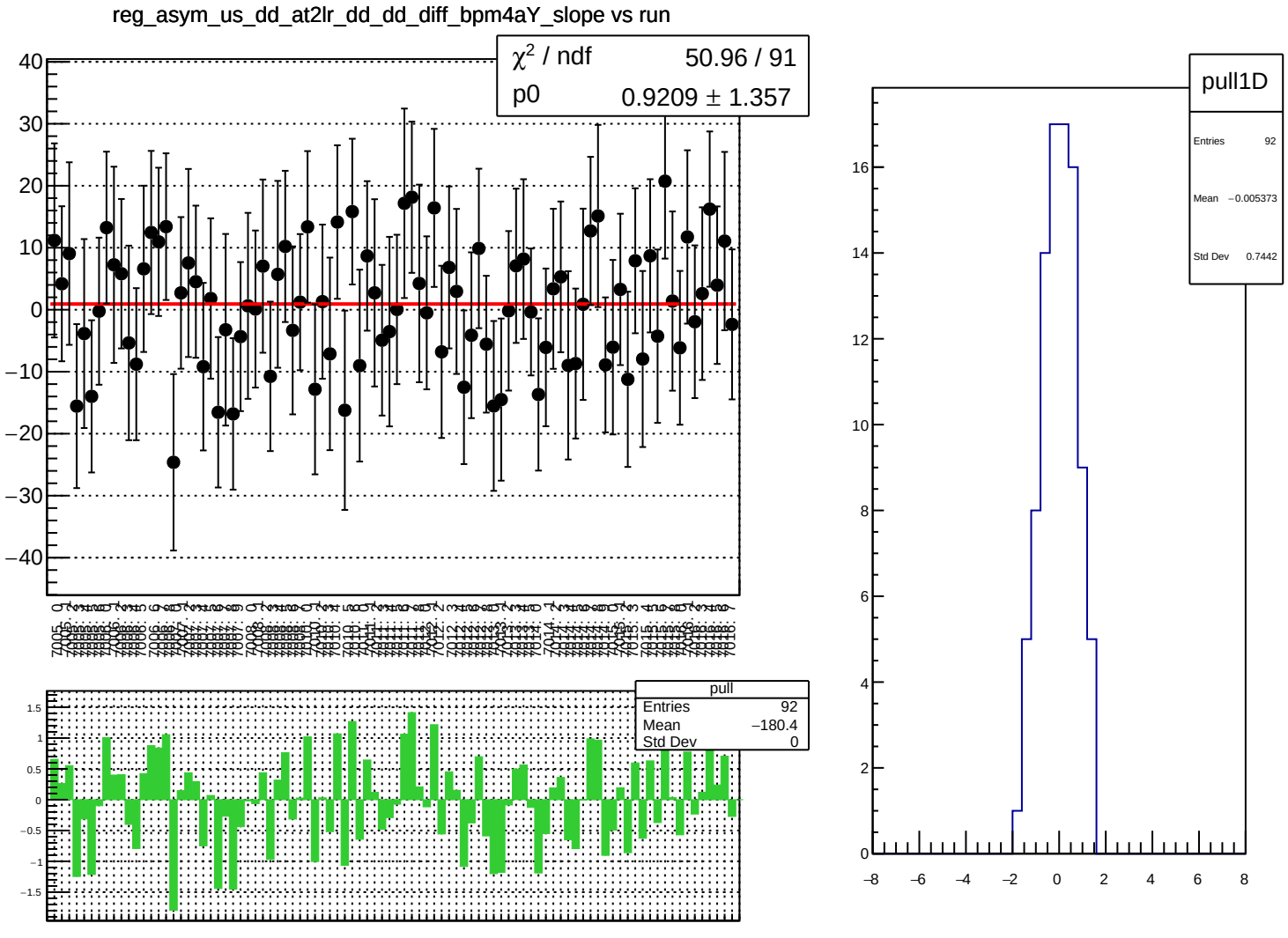

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.07 / 91
p0 −101.3 ± 2.842
pull
Entries 92
Mean −1535
Std Dev 0
pull1D
Entries 92
Mean −0.001409
Std Dev 0.7595

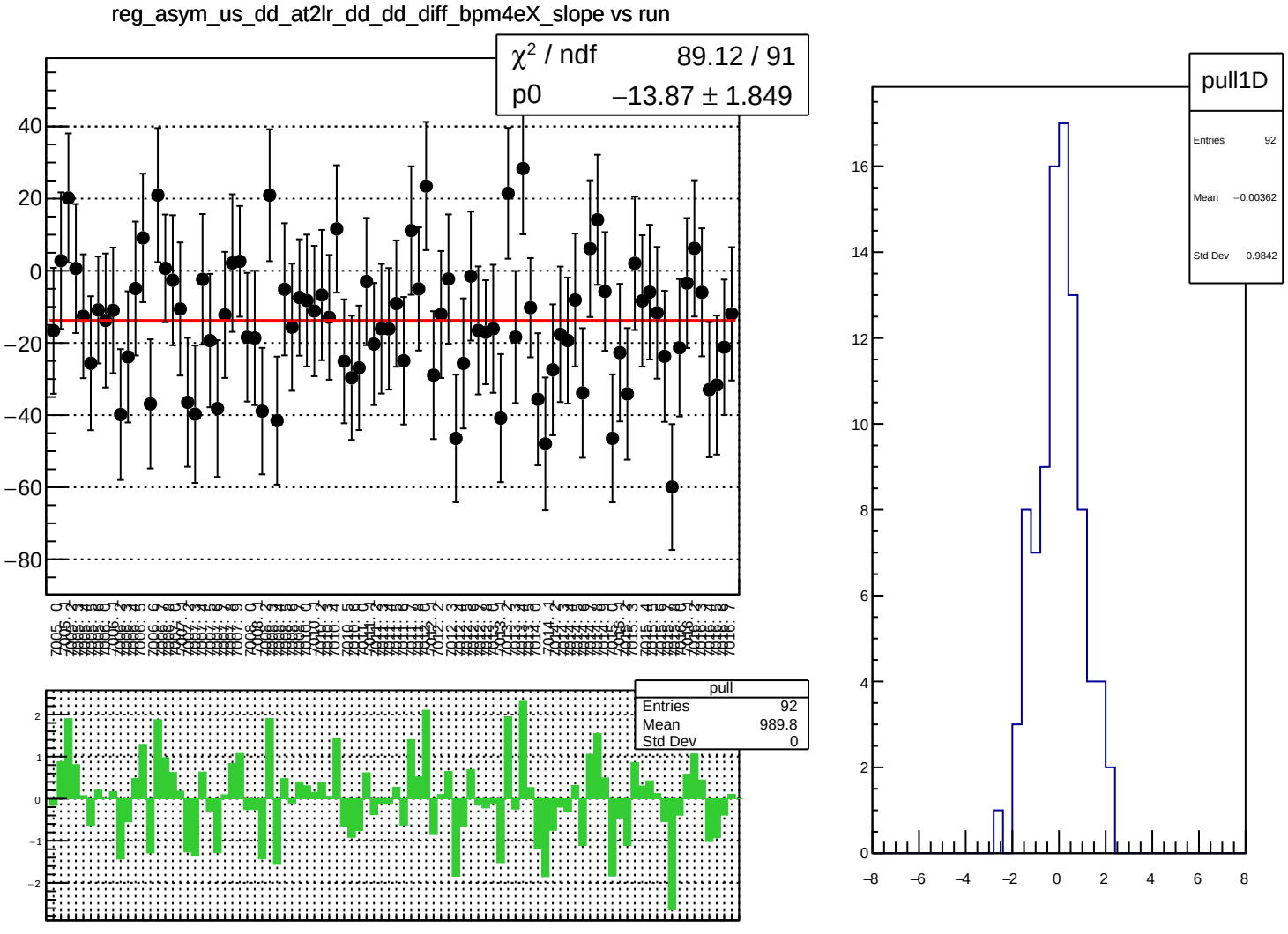

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.75 / 91
p0 13.28 ± 2.184
pull
Entries 92
Mean −3737
Std Dev 0
pull1D
Entries 92
Mean −0.0004615
Std Dev 0.7991

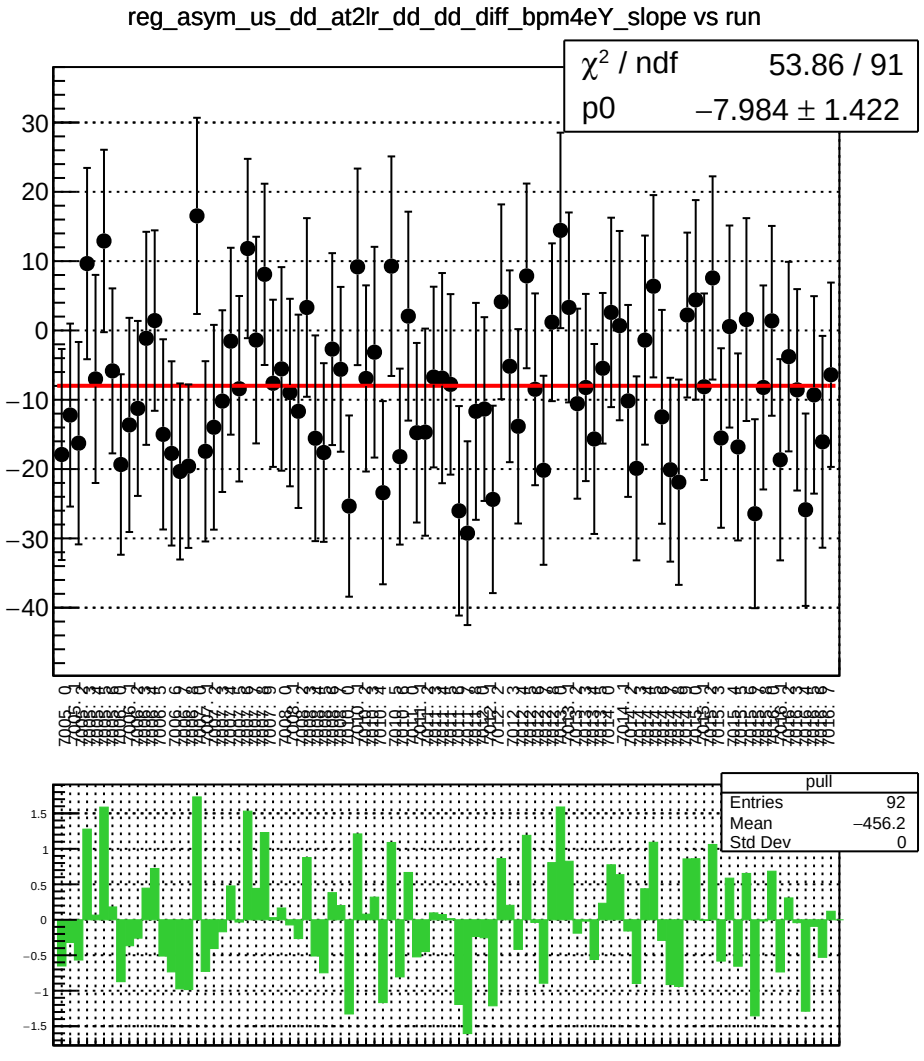

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 93.31 / 91
p0 −20.24 ± 0.09825
pull
Entries 92
Mean 843.9
Std Dev 0

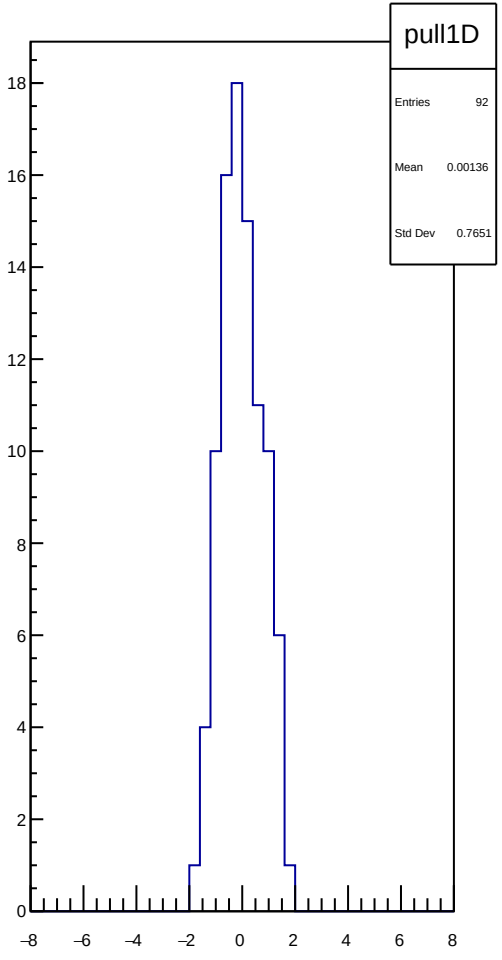

pull1D
Entries 92
Mean −0.007997
Std Dev 1.007

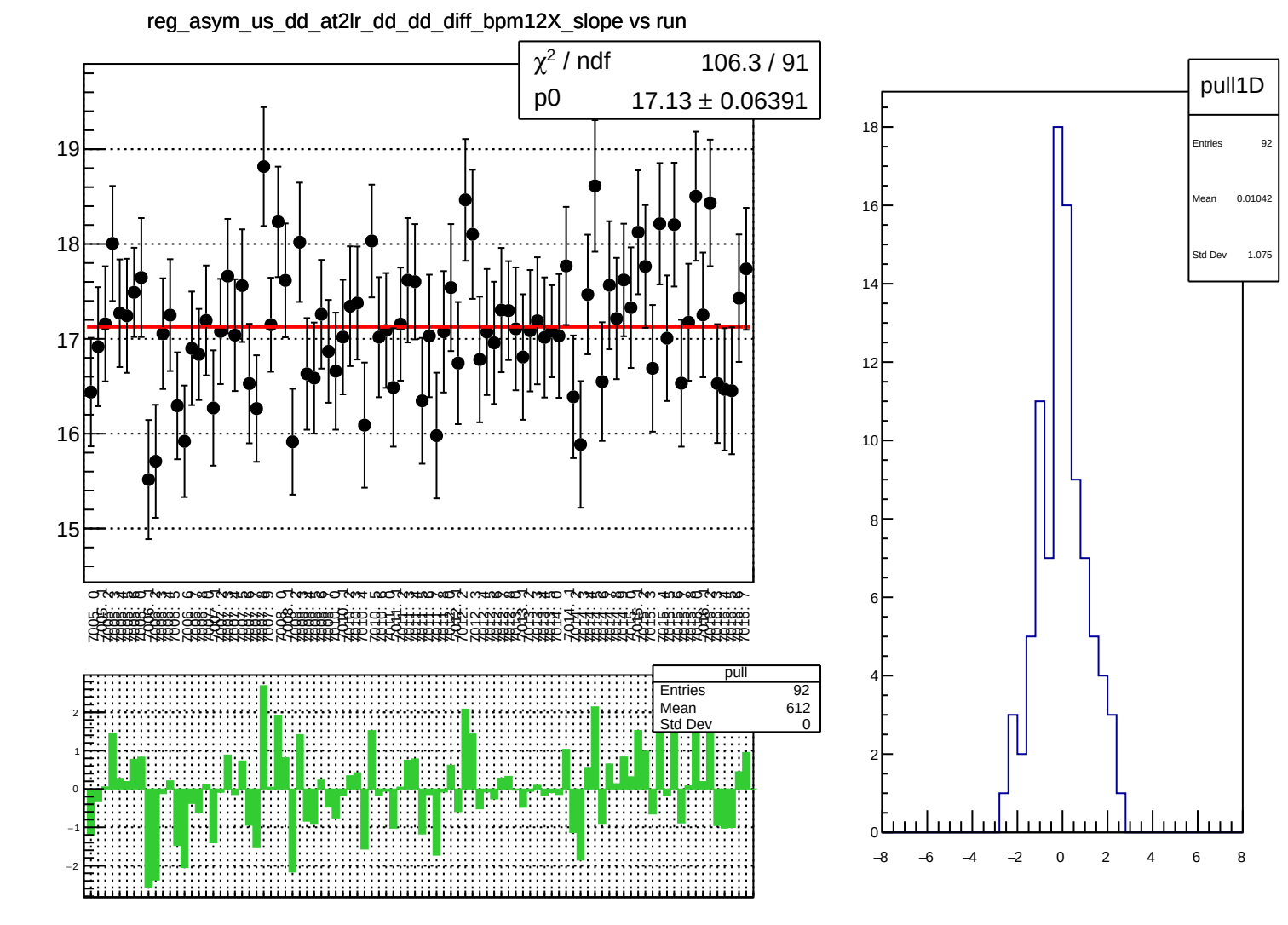

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 88.52 / 91
p0 39.55 ± 1.997
pull
Entries 92
Mean 1408
Std Dev 0
pull1D
Entries 92
Mean 0.002407
Std Dev 0.9809

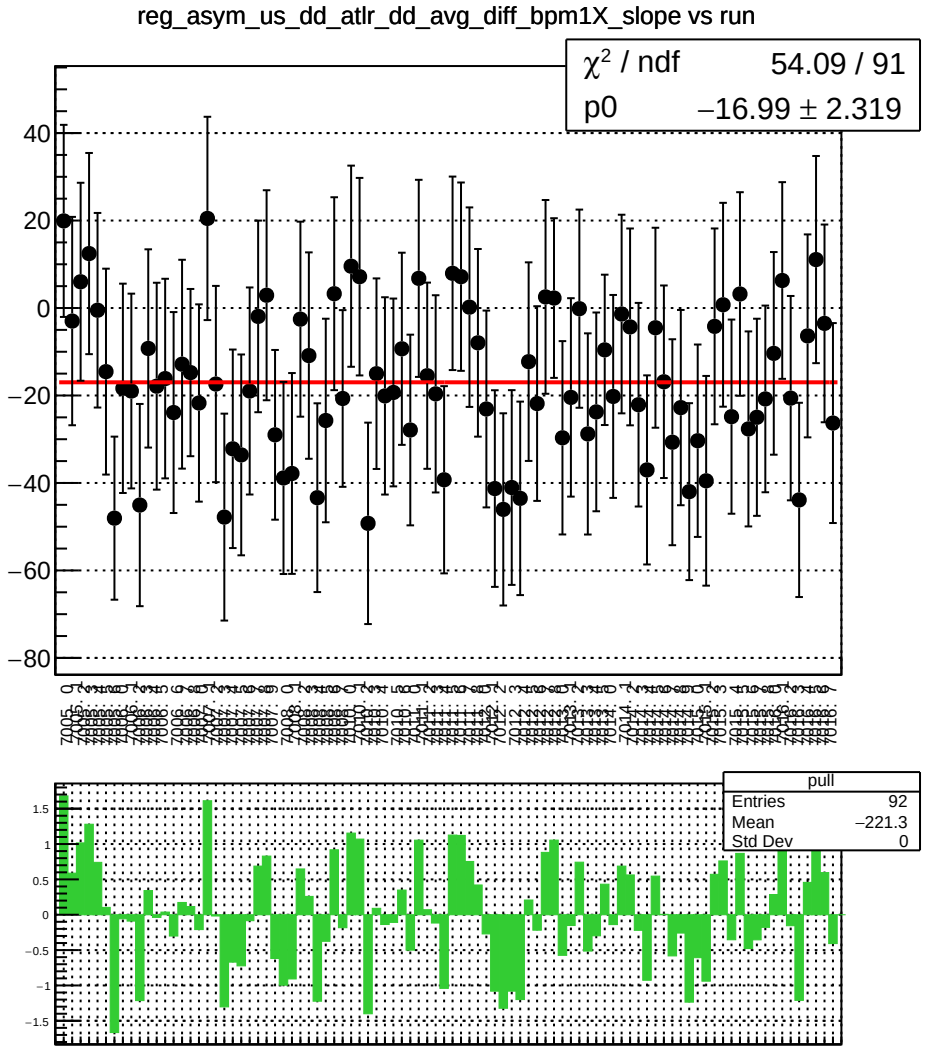

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.96 / 91
p0 0.9209 ± 1.357
pull
Entries 92
Mean −180.4
Std Dev 0
pull1D
Entries 92
Mean −0.005373
Std Dev 0.7442

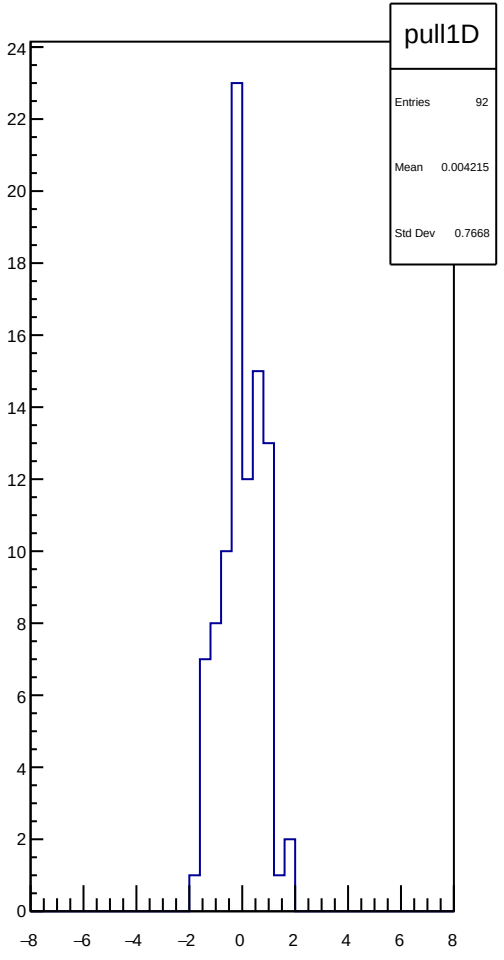

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 89.12 / 91
p0 −13.87 ± 1.849
pull
Entries 92
Mean 989.8
Std Dev 0
pull1D
Entries 92
Mean −0.00362
Std Dev 0.9842

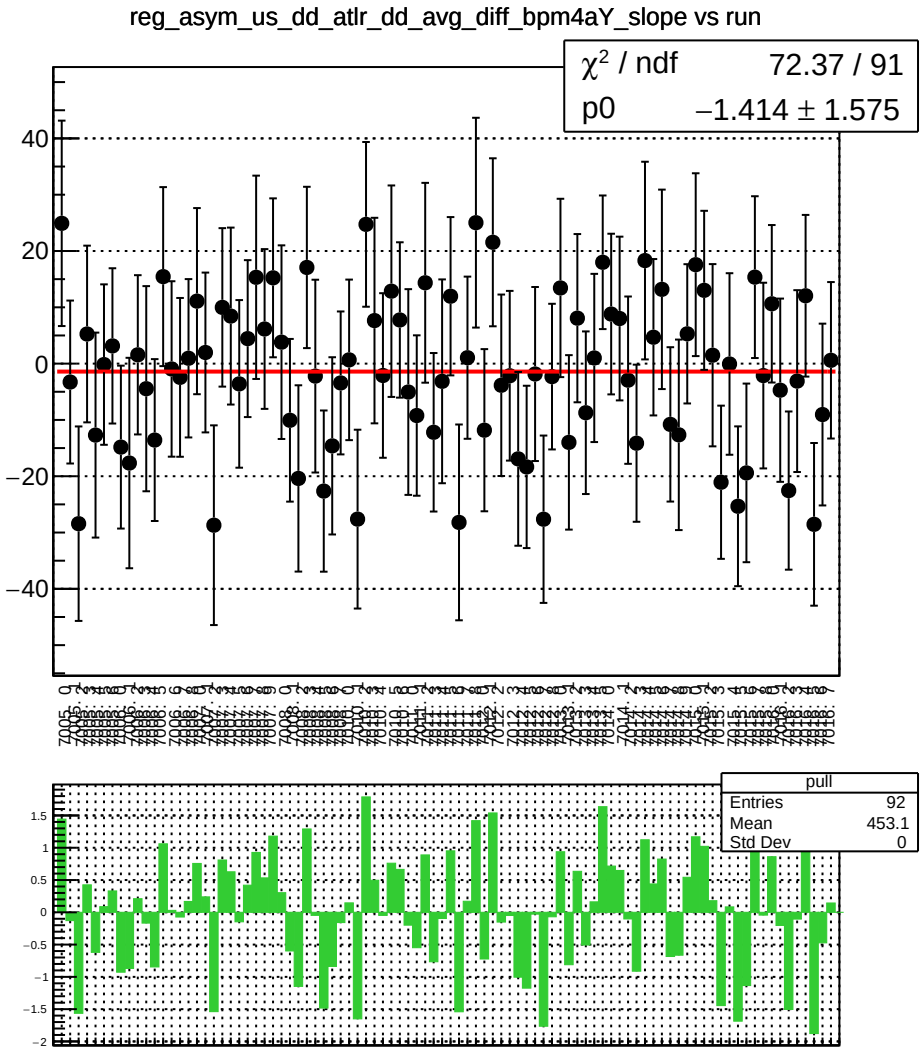

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.86 / 91
p0 −7.984 ± 1.422
pull
Entries 92
Mean −456.2
Std Dev 0

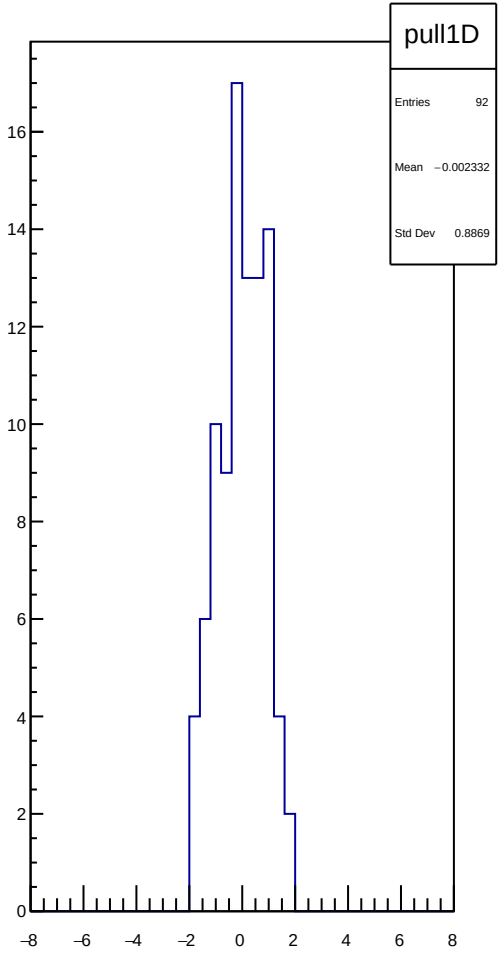

pull1D
Entries 92
Mean 0.00136
Std Dev 0.7651

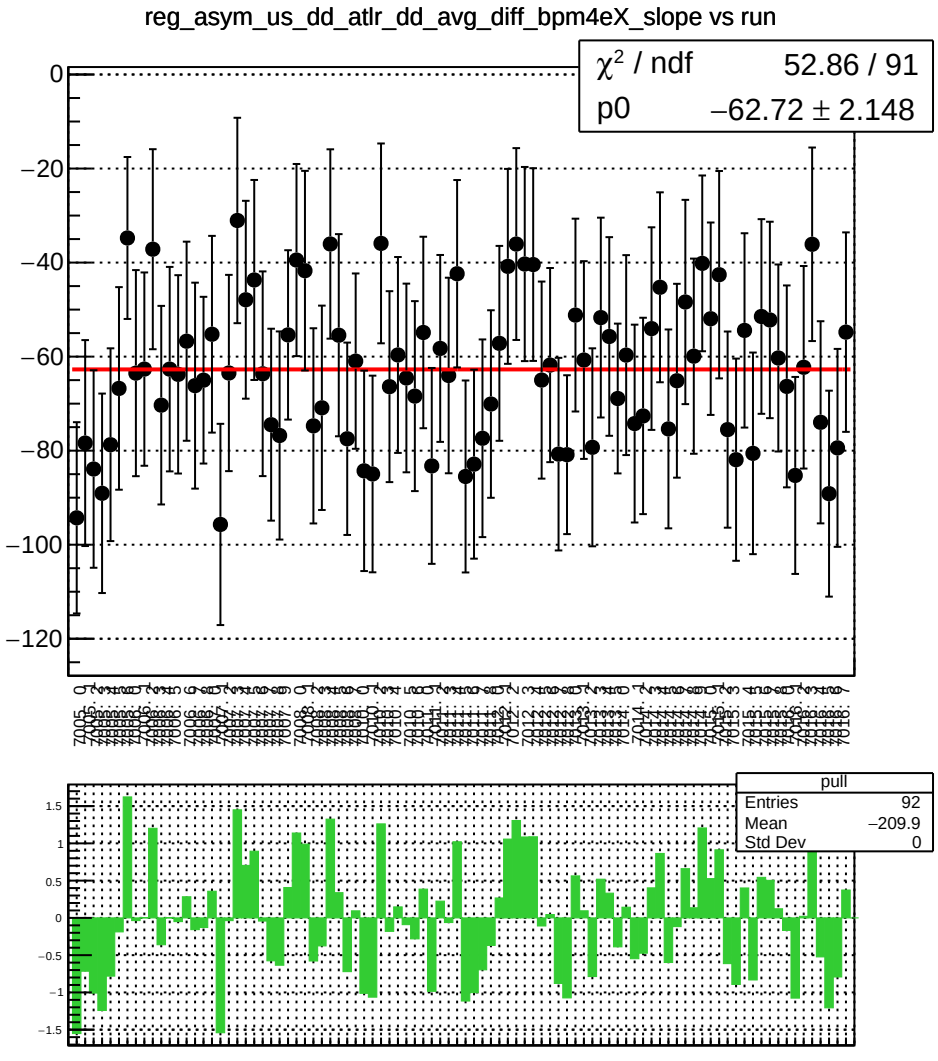

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 106.3 / 91
p0 17.13 ± 0.06391
pull
Entries 92
Mean 612
Std Dev 0
pull1D
Entries 92
Mean 0.01042
Std Dev 1.075

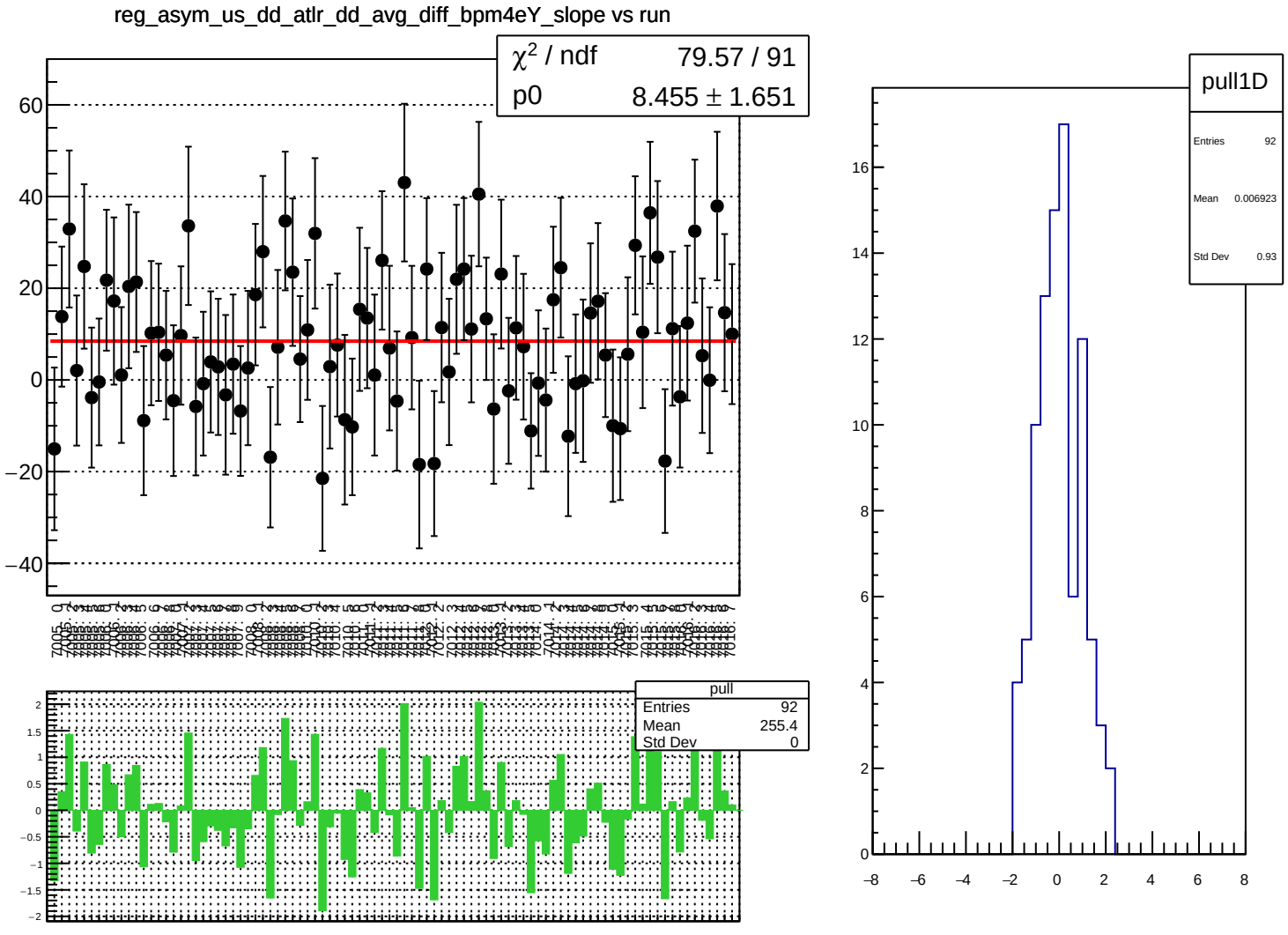

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 54.09 / 91
p0 −16.99 ± 2.319
pull
Entries 92
Mean −221.3
Std Dev 0

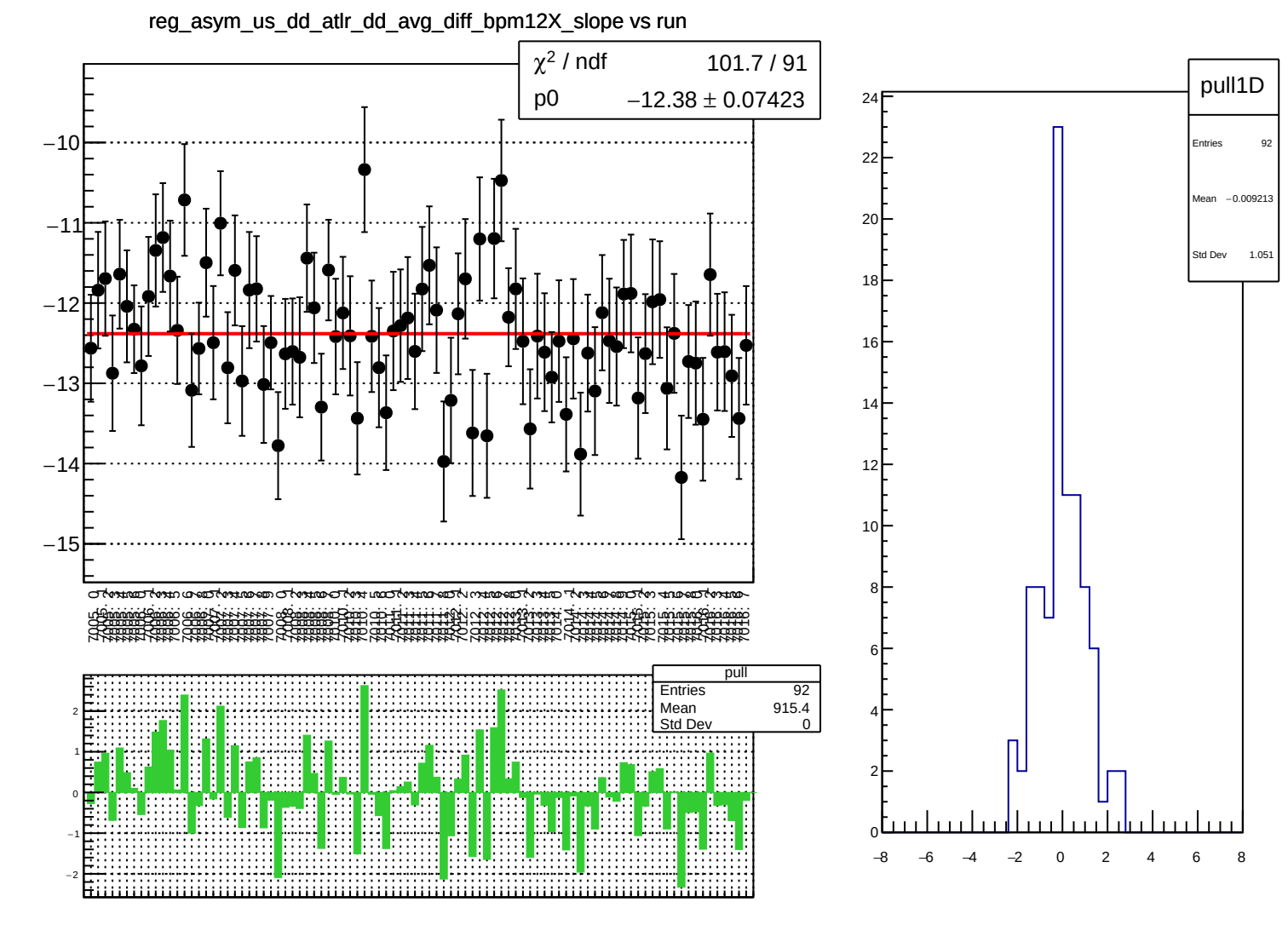

pull1D
Entries 92
Mean 0.004215
Std Dev 0.7668

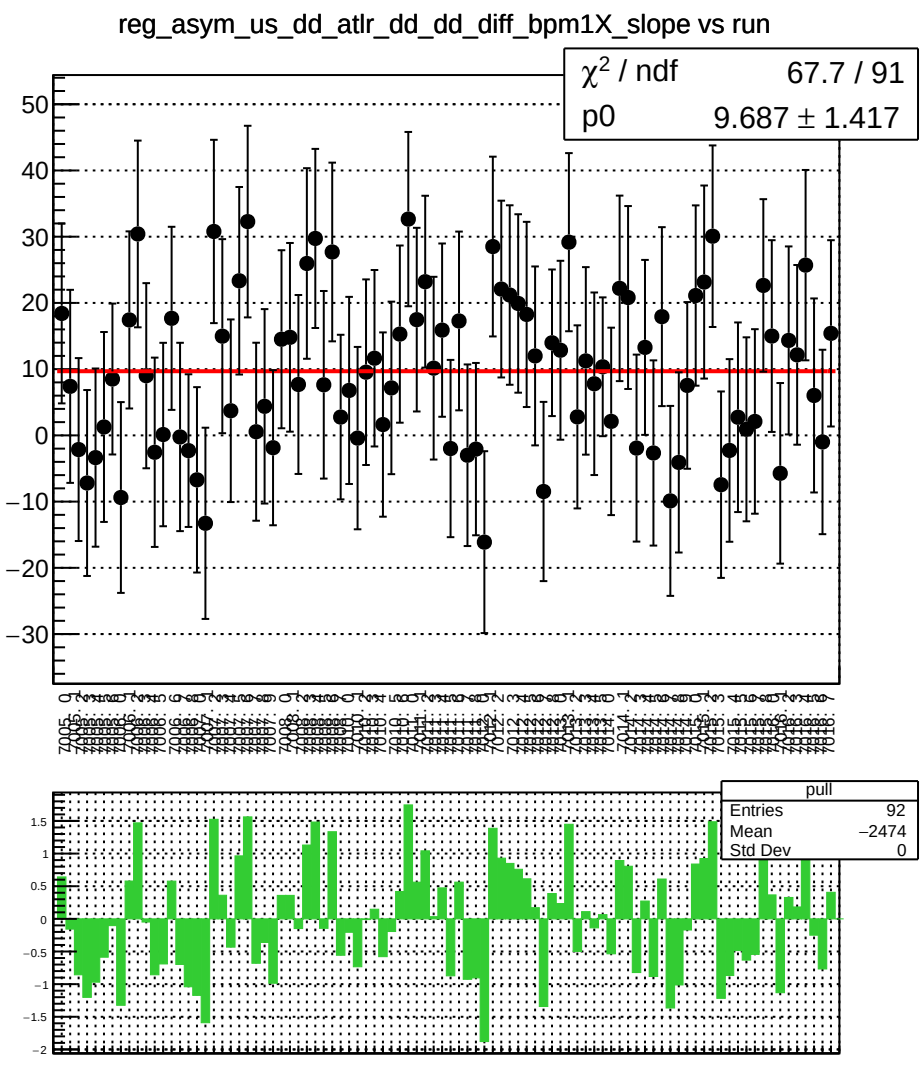

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 72.37 / 91
p0 −1.414 ± 1.575
pull
Entries 92
Mean 453.1
Std Dev 0

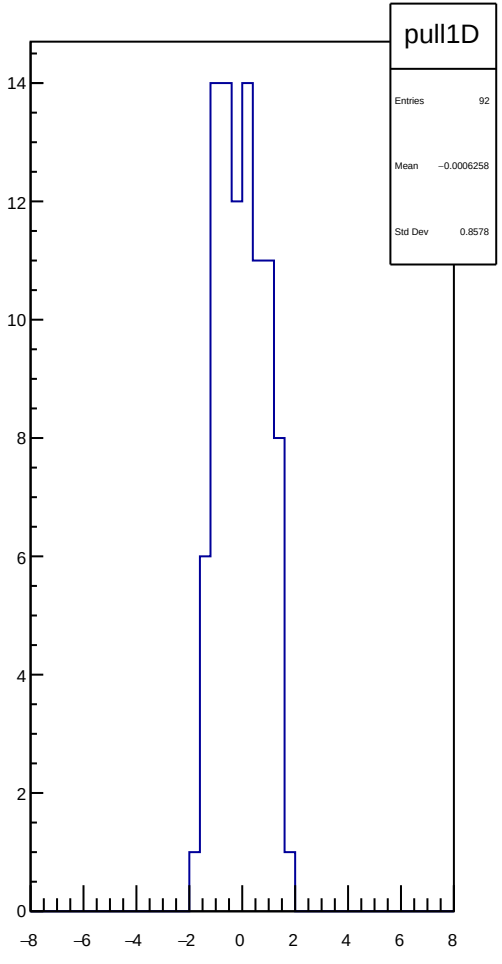

pull1D
Entries 92
Mean −0.002332
Std Dev 0.8869

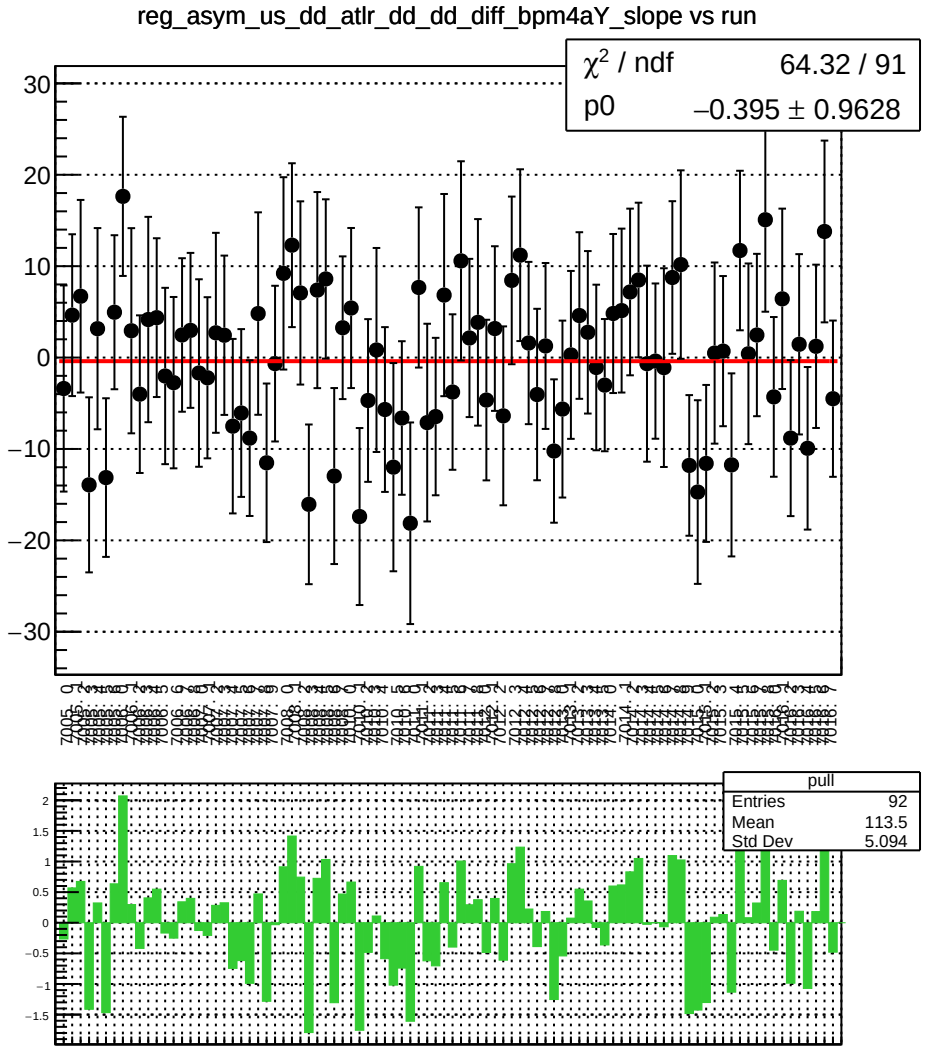

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.86 / 91
p0 −62.72 ± 2.148
pull
Entries 92
Mean −209.9
Std Dev 0
pull1D
Entries 92
Mean −0.003647
Std Dev 0.758

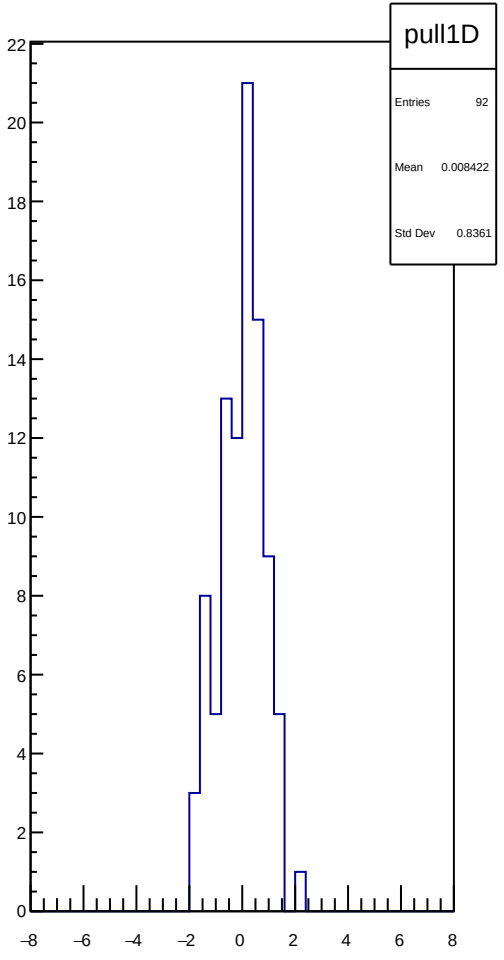

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.57 / 91
p0 8.455 ± 1.651
pull
Entries 92
Mean 255.4
Std Dev 0
pull1D
Entries 92
Mean 0.006923
Std Dev 0.93

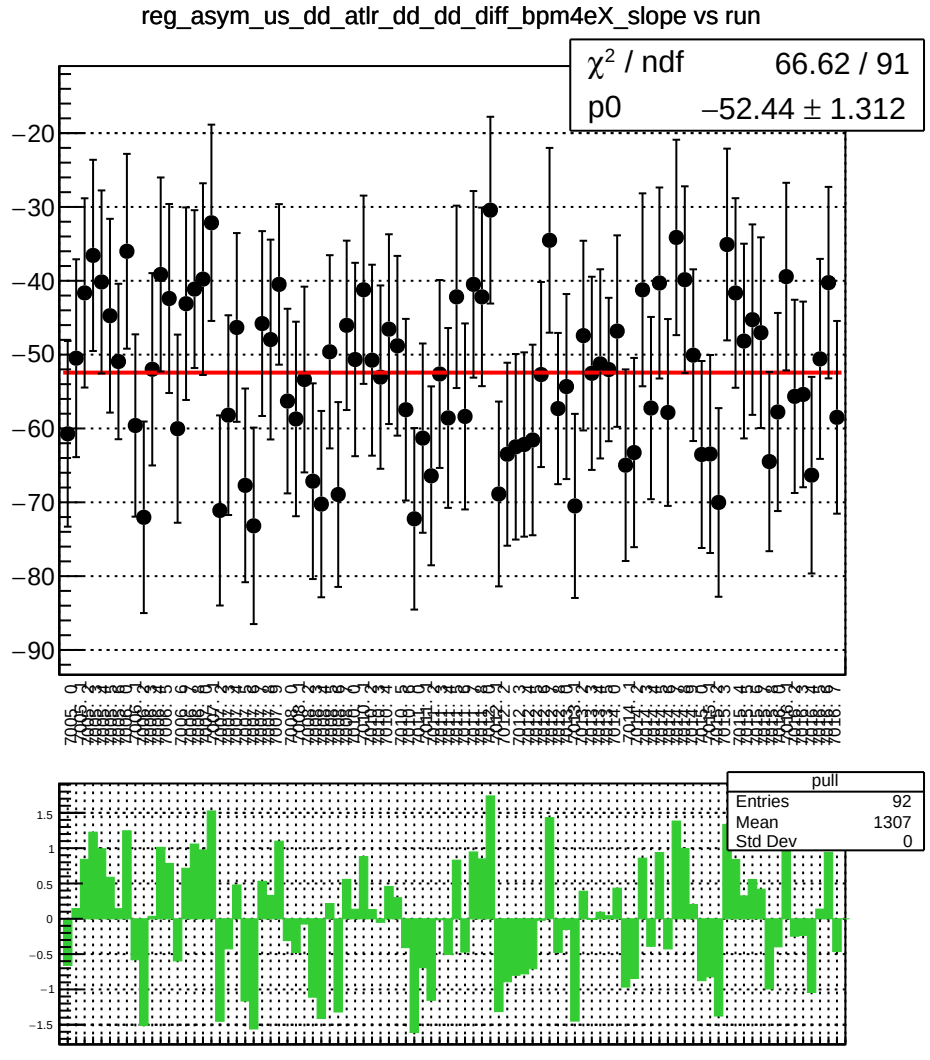

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 101.7 / 91
p0 −12.38 ± 0.07423
pull
Entries 92
Mean 915.4
Std Dev 0
pull1D
Entries 92
Mean −0.009213
Std Dev 1.051

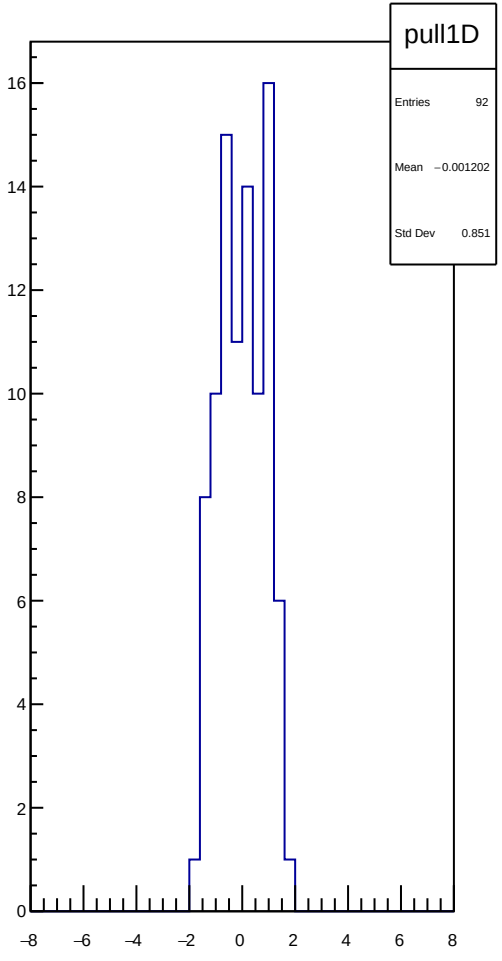

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 67.7 / 91
p0 9.687 ± 1.417
pull
Entries 92
Mean −2474
Std Dev 0

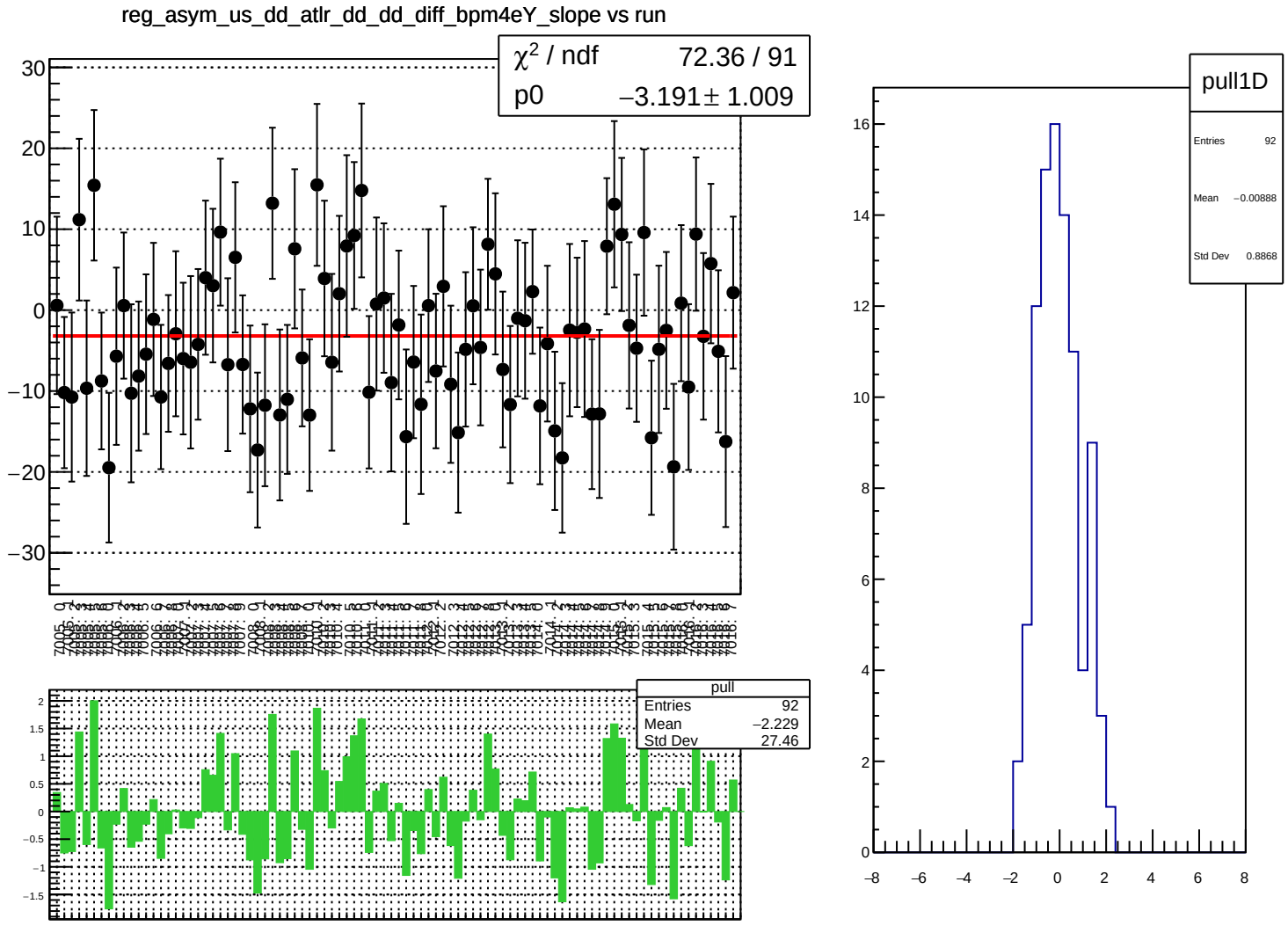

pull1D
Entries 92
Mean −0.0006258
Std Dev 0.8578

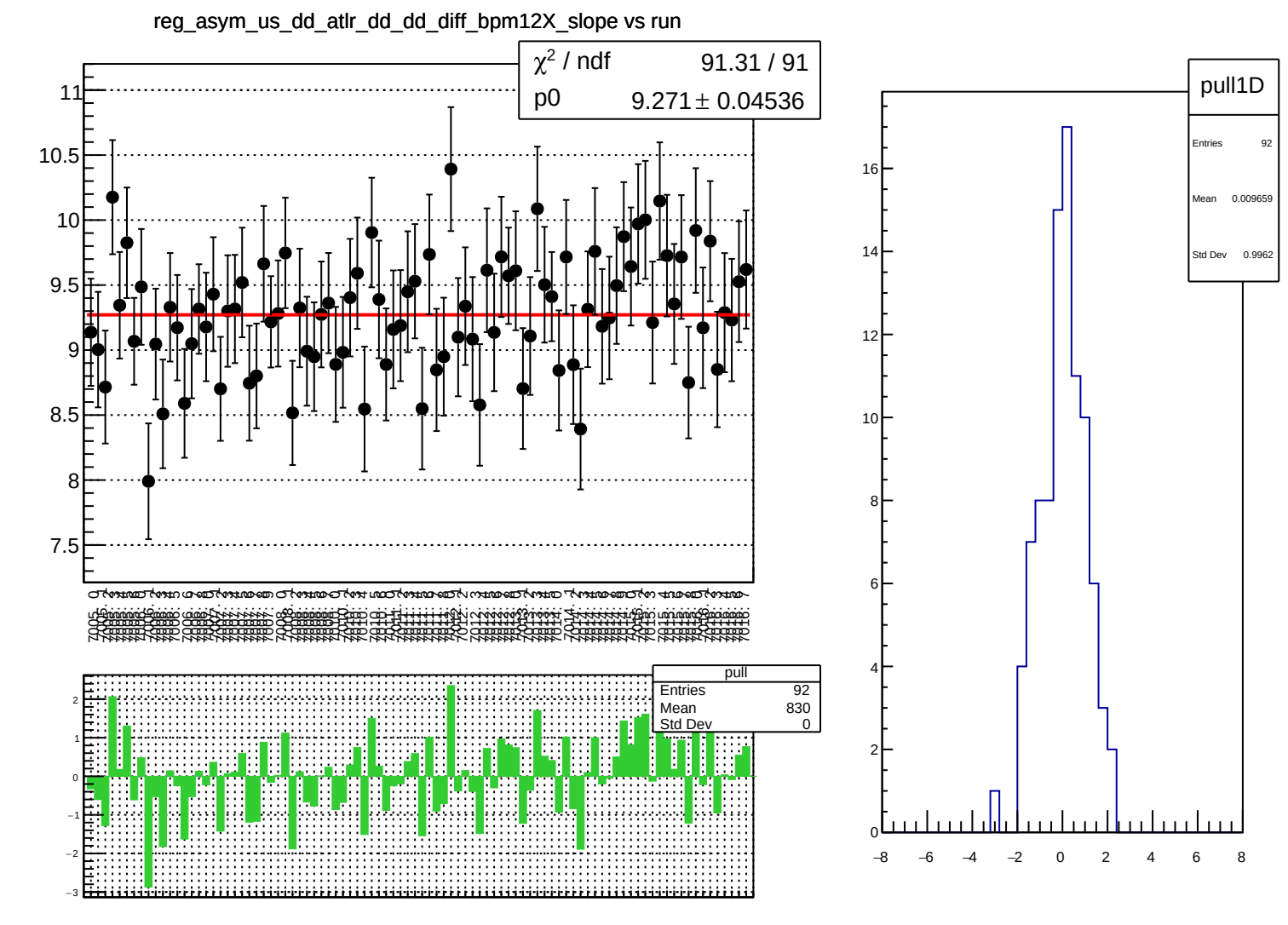

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.32 / 91
p0 −0.395 ± 0.9628
pull
Entries 92
Mean 113.5
Std Dev 5.094

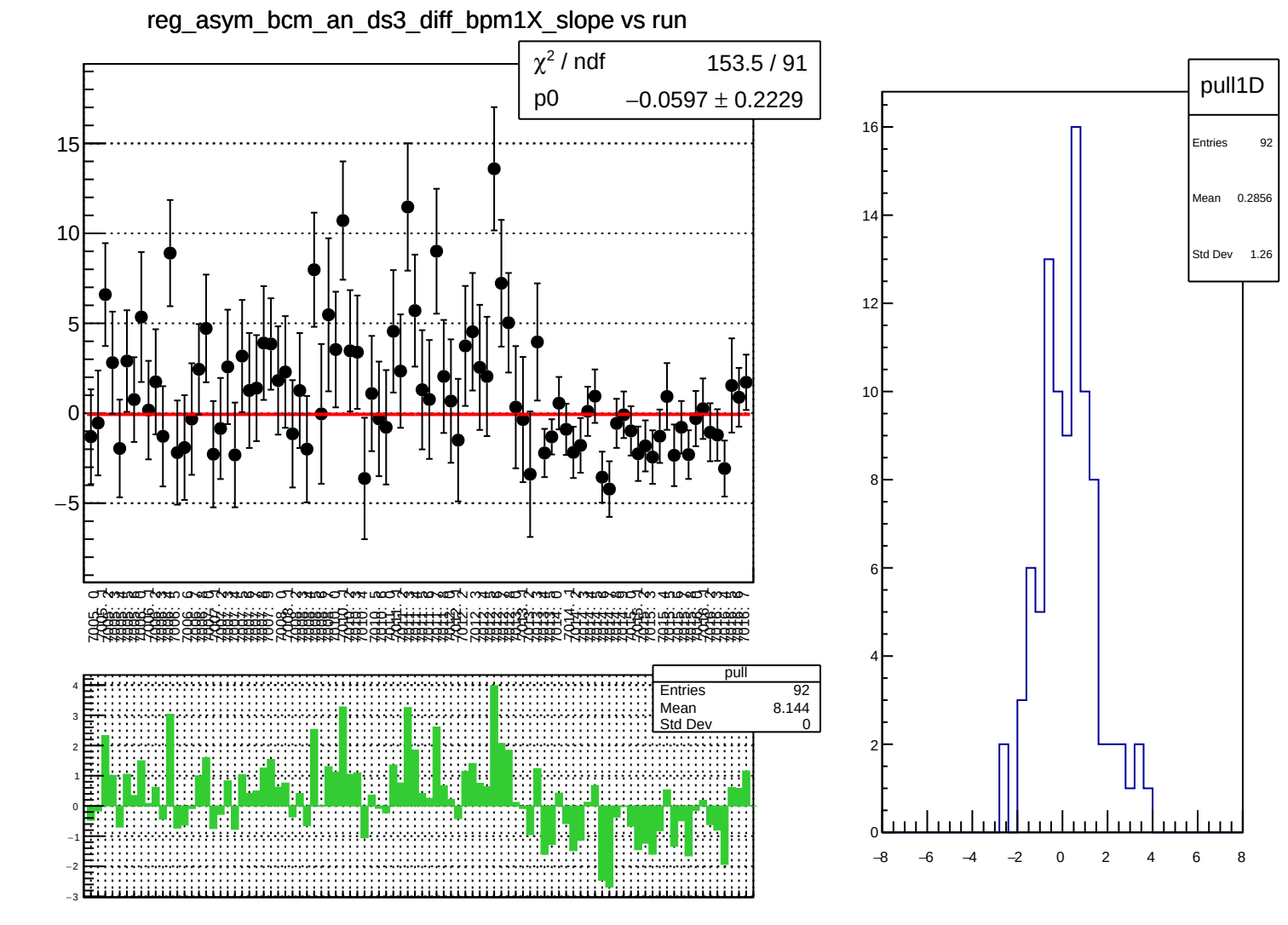

pull1D
Entries 92
Mean 0.008422
Std Dev 0.8361

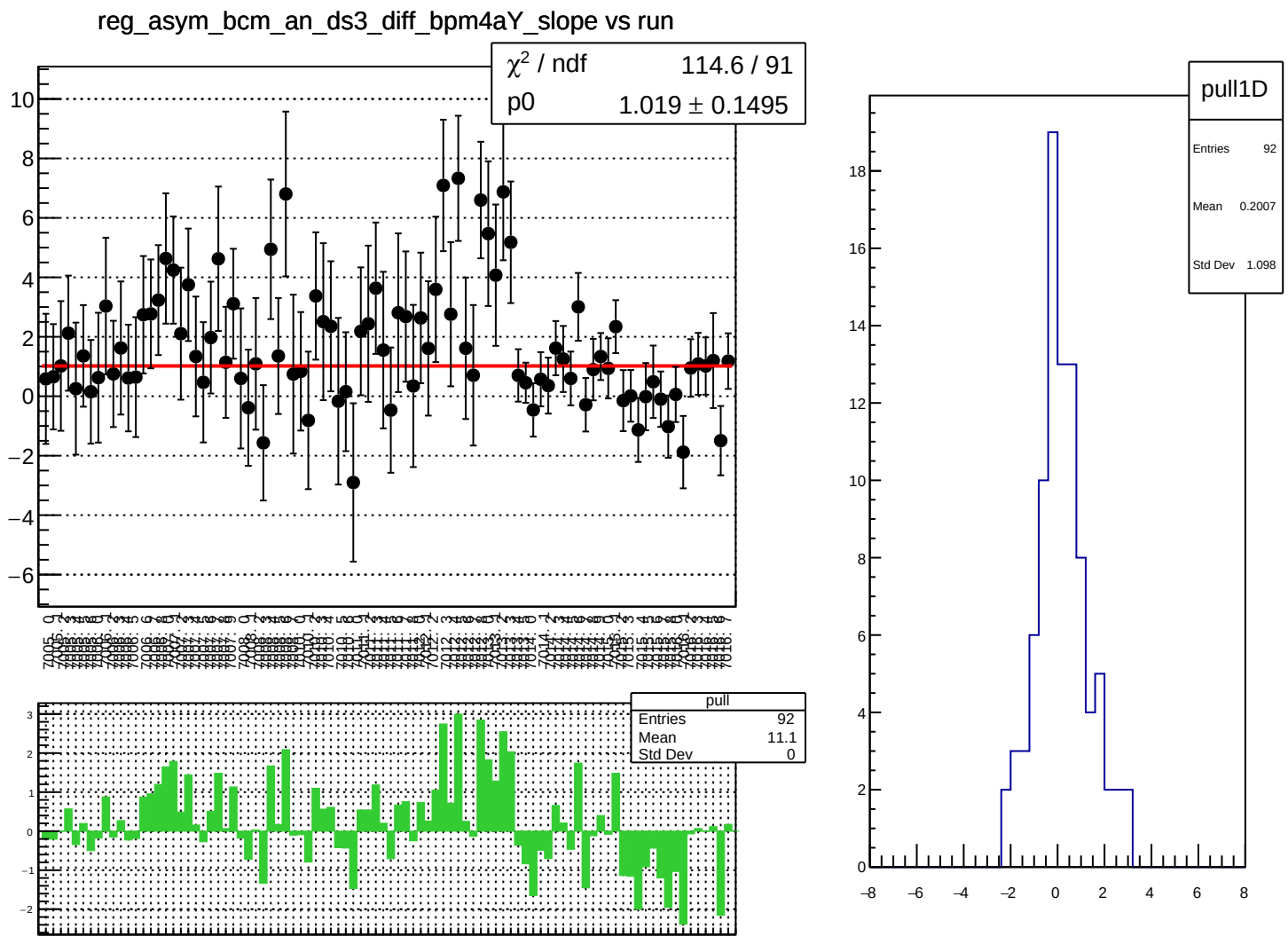

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.62 / 91
p0 −52.44 ± 1.312
pull
Entries 92
Mean 1307
Std Dev 0

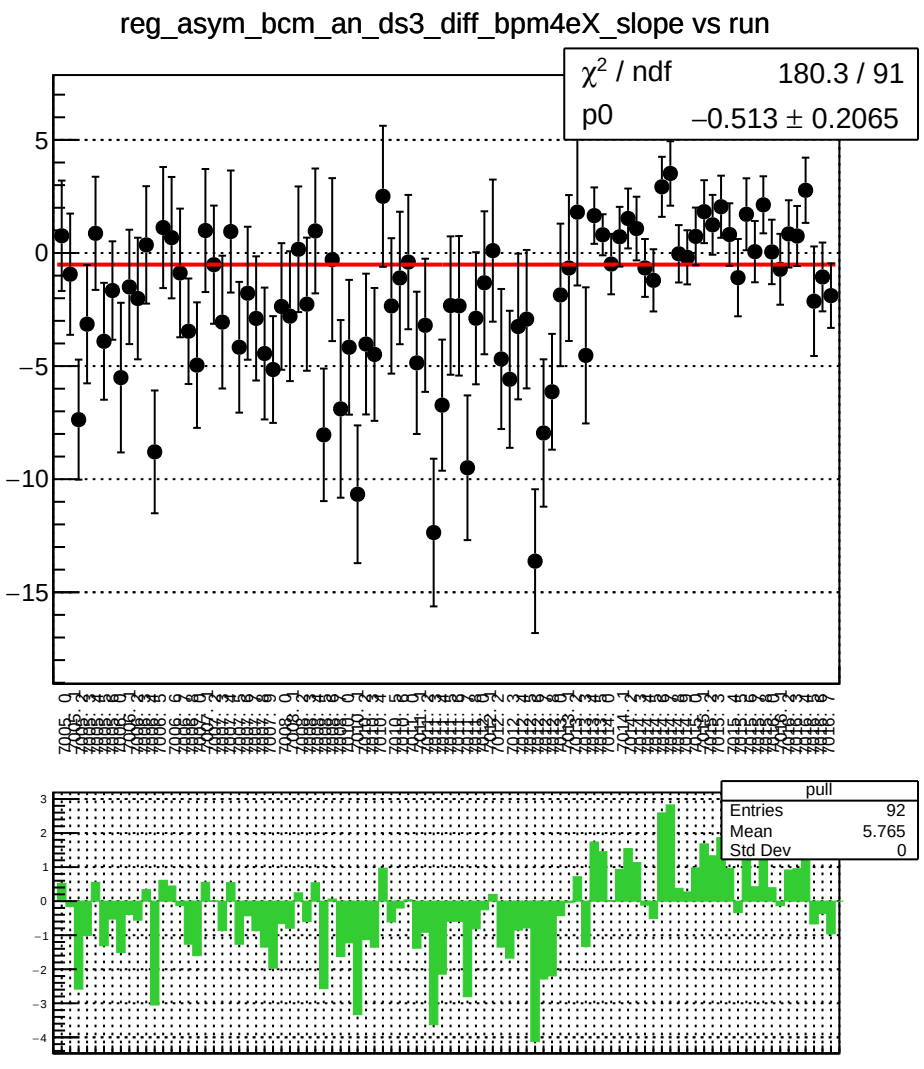

pull1D
Entries 92
Mean −0.001202
Std Dev 0.851

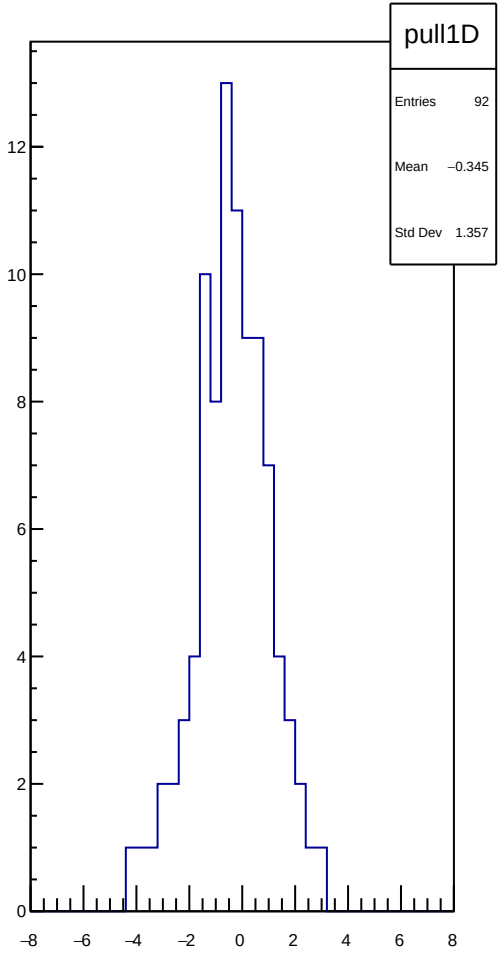

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.36 / 91
p0 −3.191 ± 1.009
pull
Entries 92
Mean −2.229
Std Dev 27.46
pull1D
Entries 92
Mean −0.00888
Std Dev 0.8868

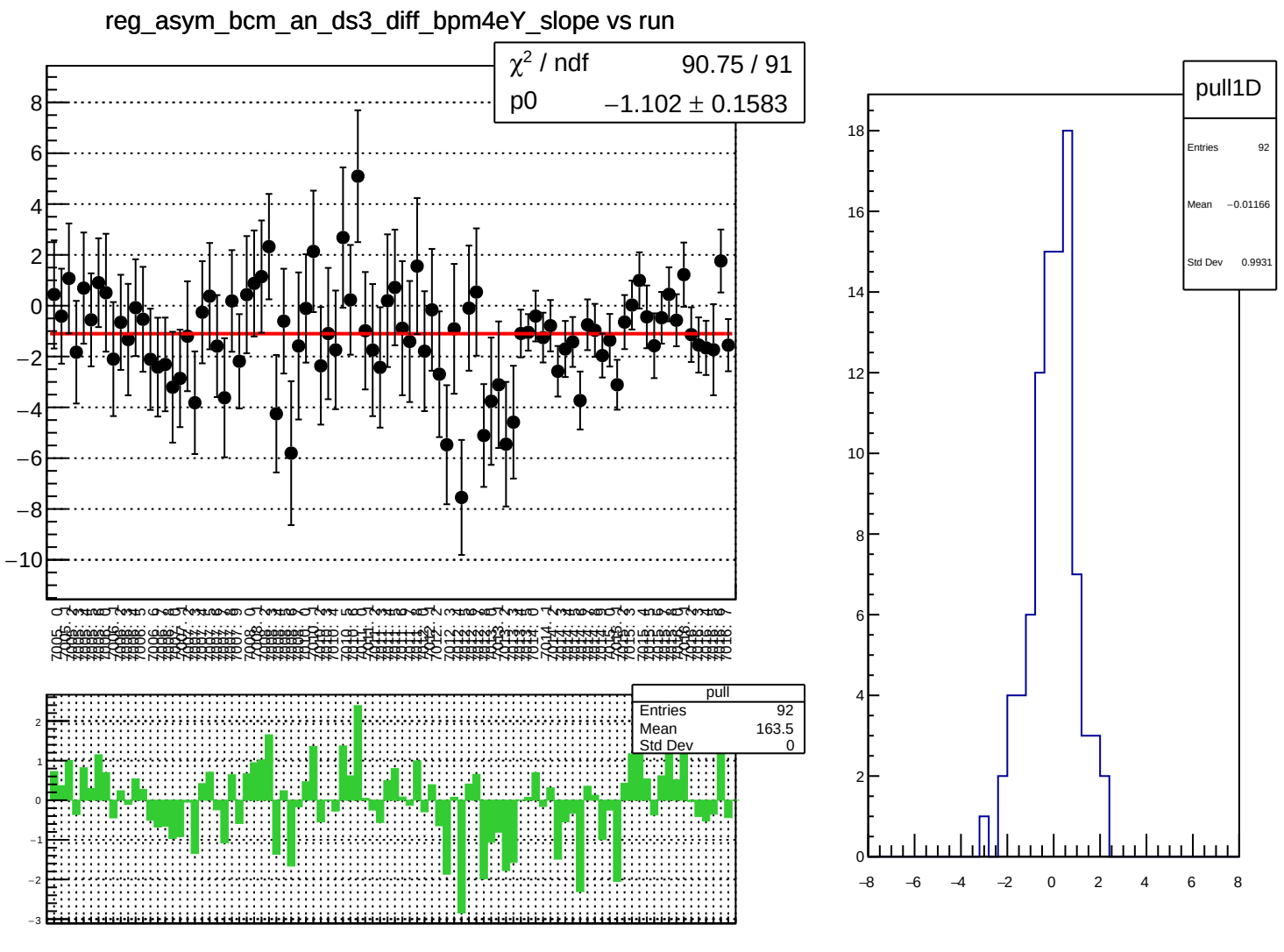

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 91.31 / 91
p0 9.271 ± 0.04536
pull
Entries 92
Mean 830
Std Dev 0
pull1D
Entries 92
Mean 0.009659
Std Dev 0.9962

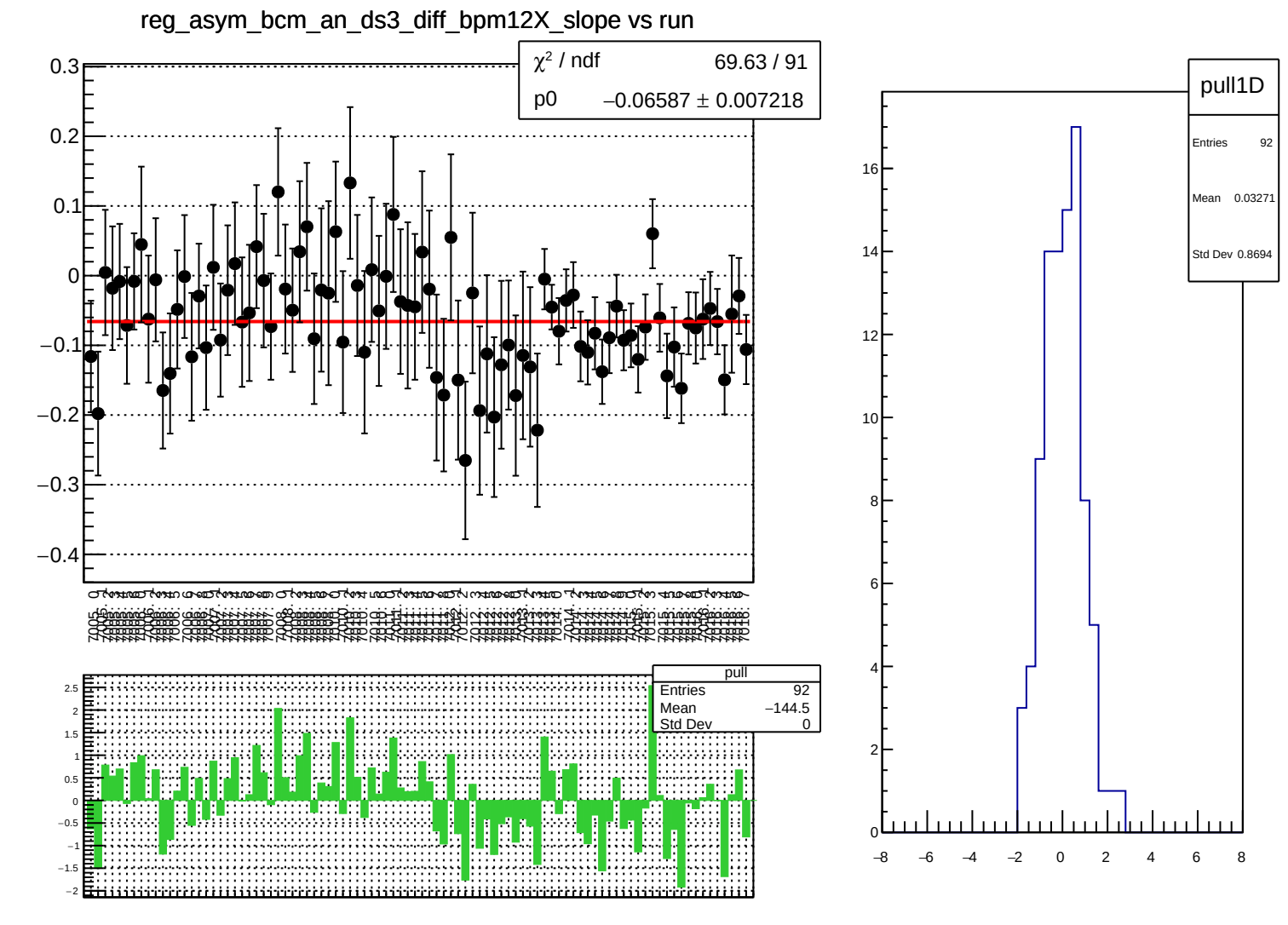

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 153.5 / 91
p0 −0.0597 ± 0.2229
pull
Entries 92
Mean 8.144
Std Dev 0
pull1D
Entries 92
Mean 0.2856
Std Dev 1.26

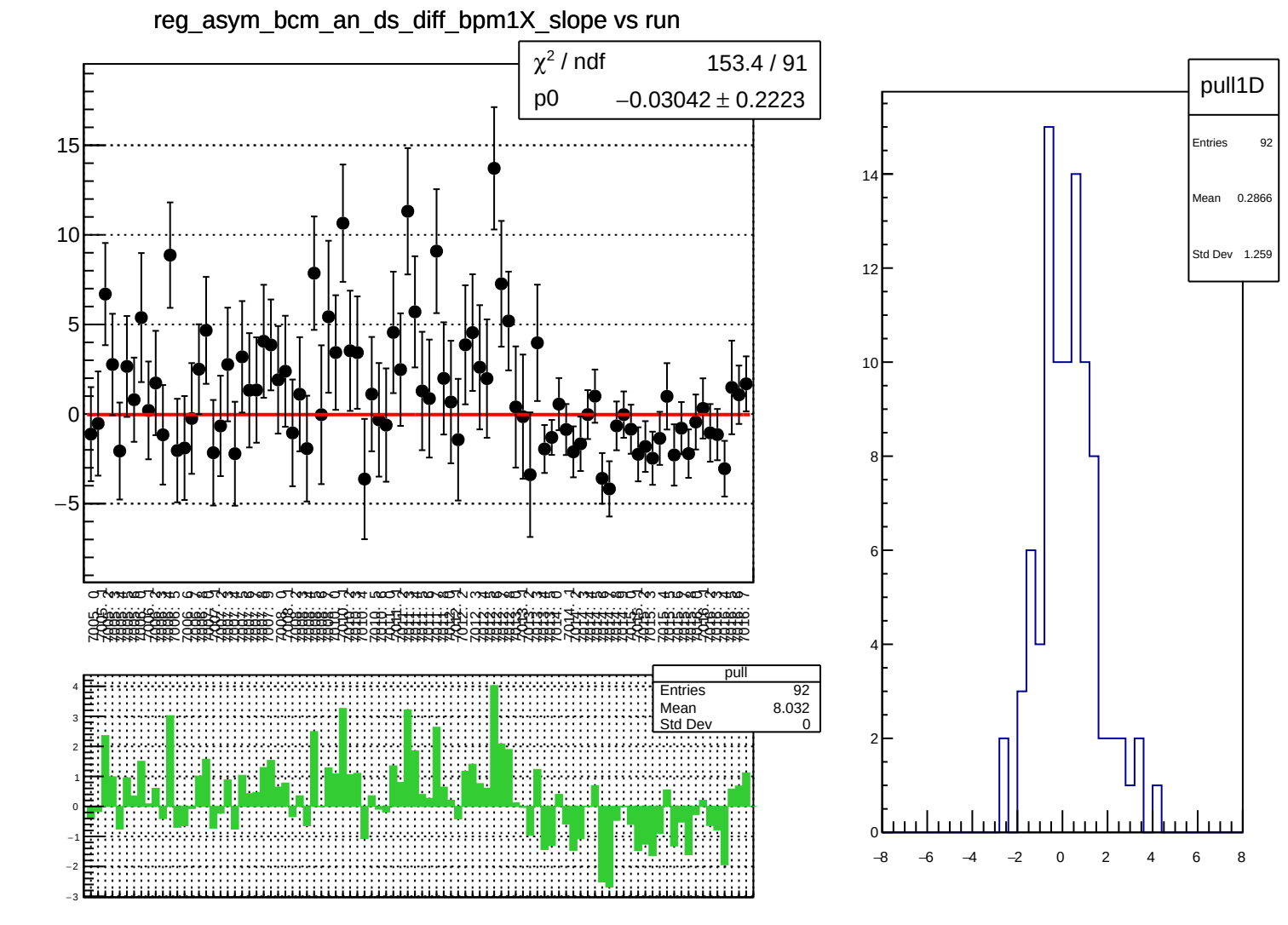

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 114.6 / 91
p0 1.019 ± 0.1495
pull
Entries 92
Mean 11.1
Std Dev 0
pull1D
Entries 92
Mean 0.2007
Std Dev 1.098

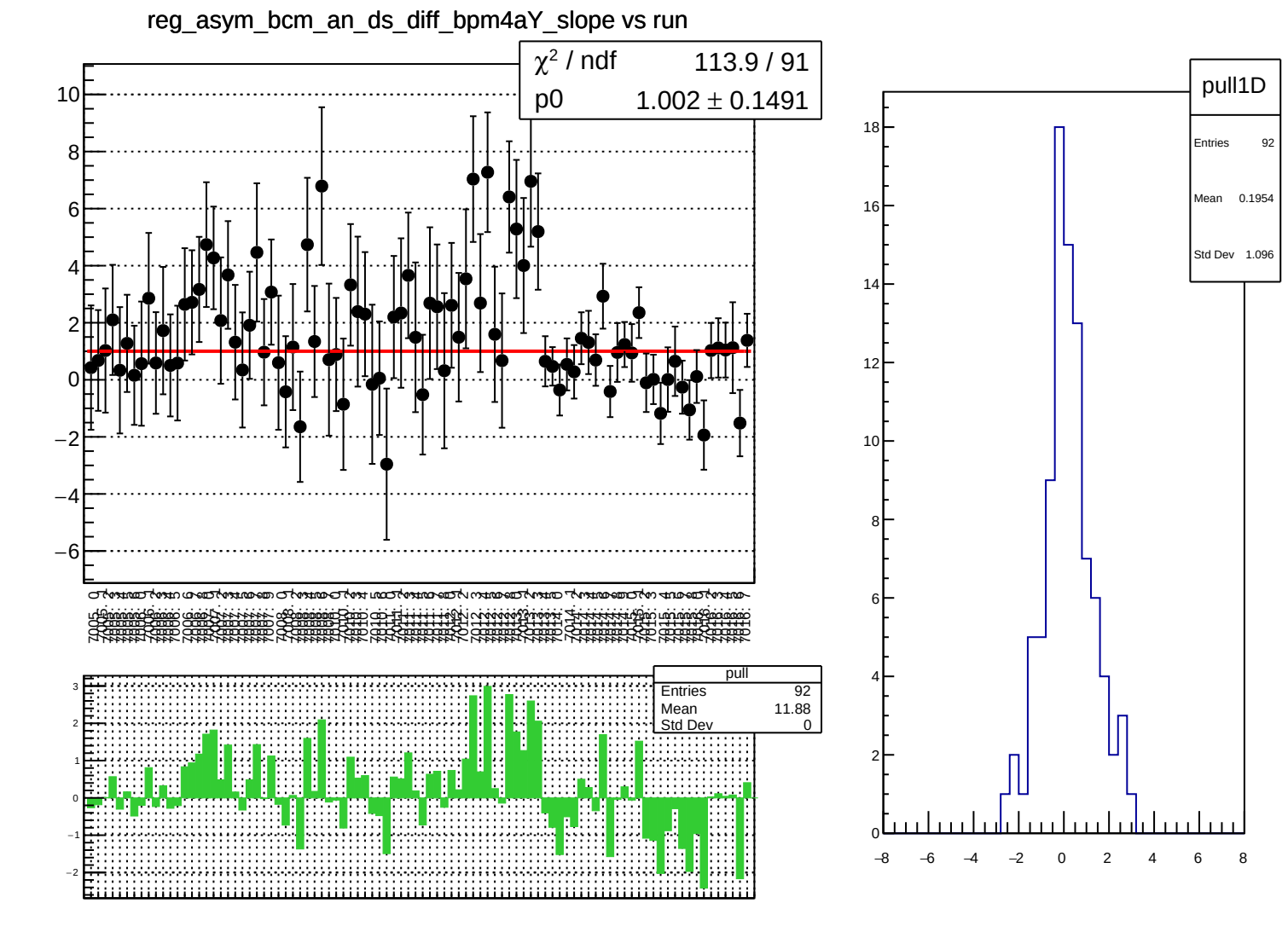

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 180.3 / 91
p0 −0.513 ± 0.2065
pull
Entries 92
Mean 5.765
Std Dev 0

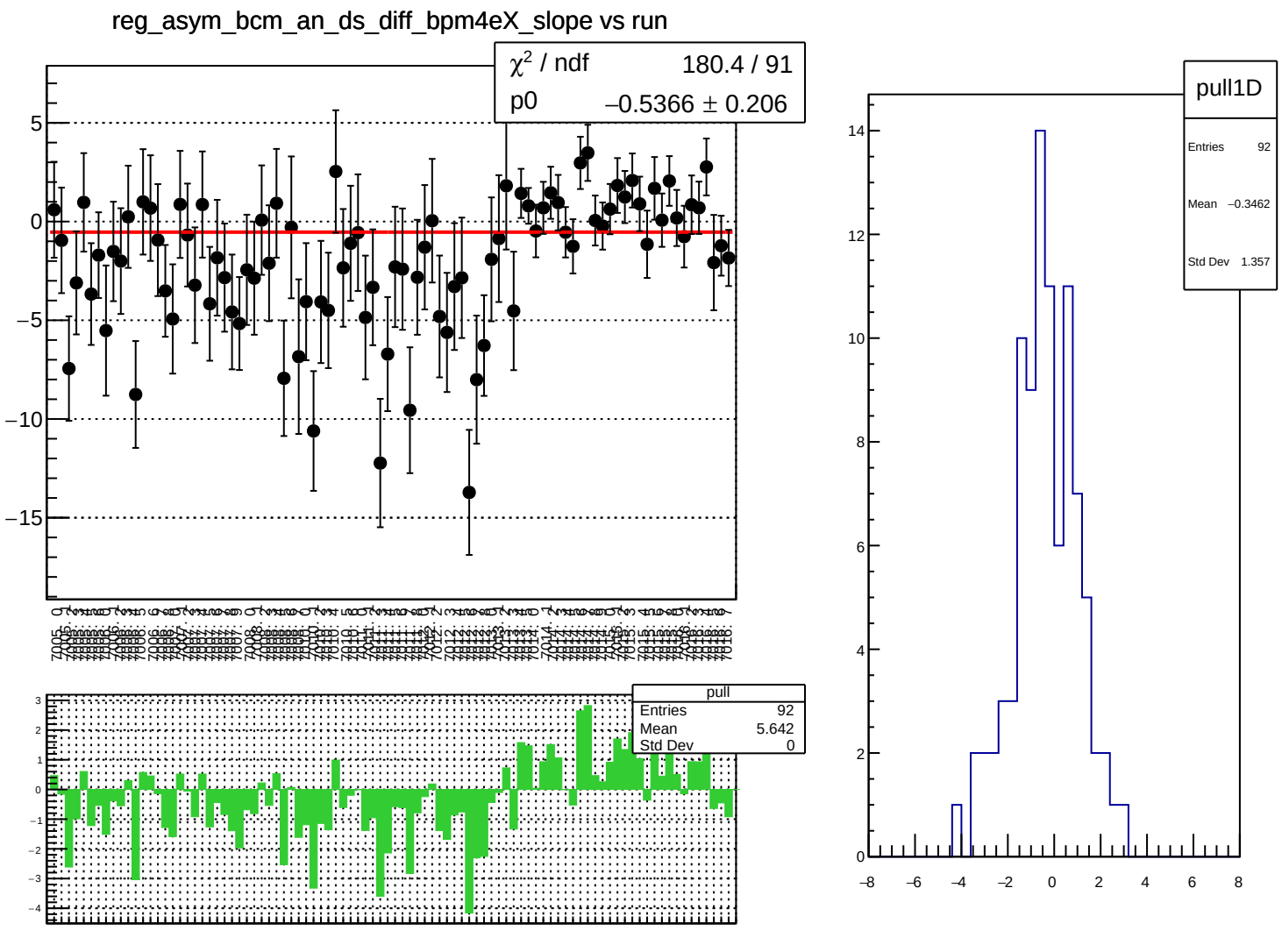

pull1D
Entries 92
Mean −0.345
Std Dev 1.357

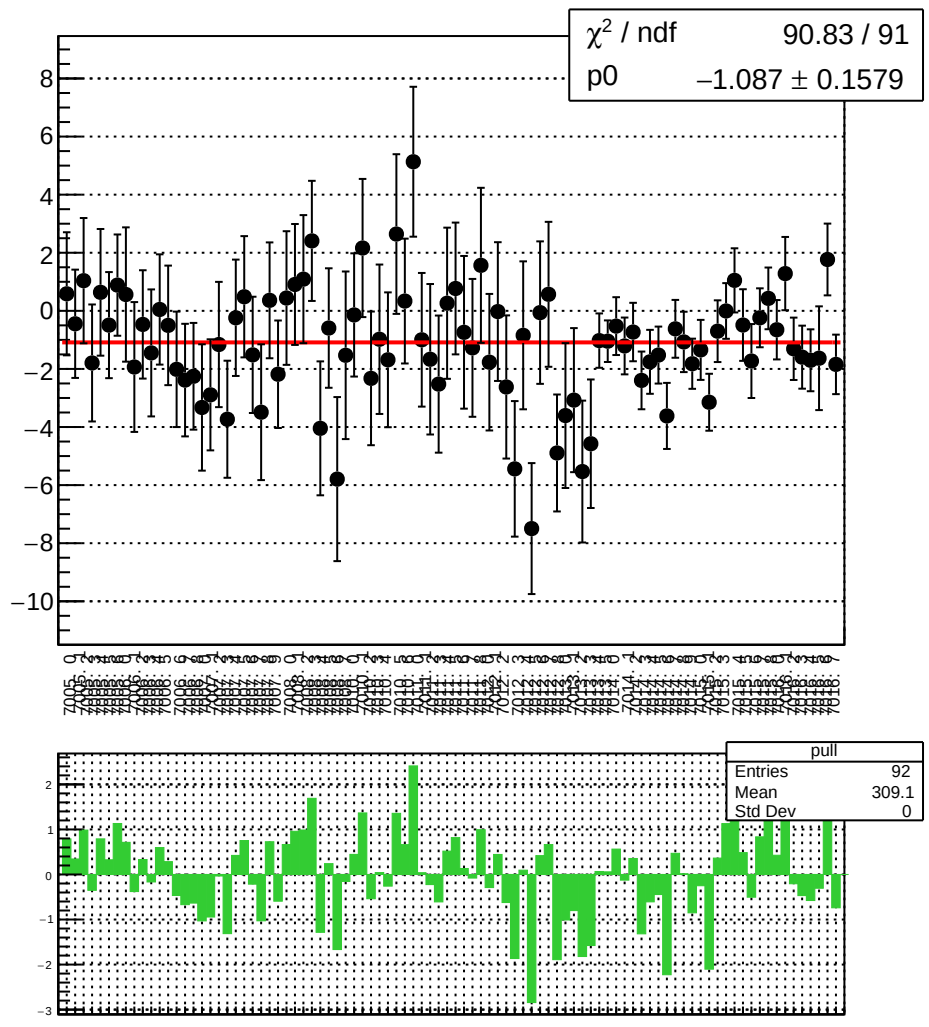

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 90.75 / 91
p0 −1.102 ± 0.1583
pull
Entries 92
Mean 163.5
Std Dev 0
pull1D
Entries 92
Mean −0.01166
Std Dev 0.9931

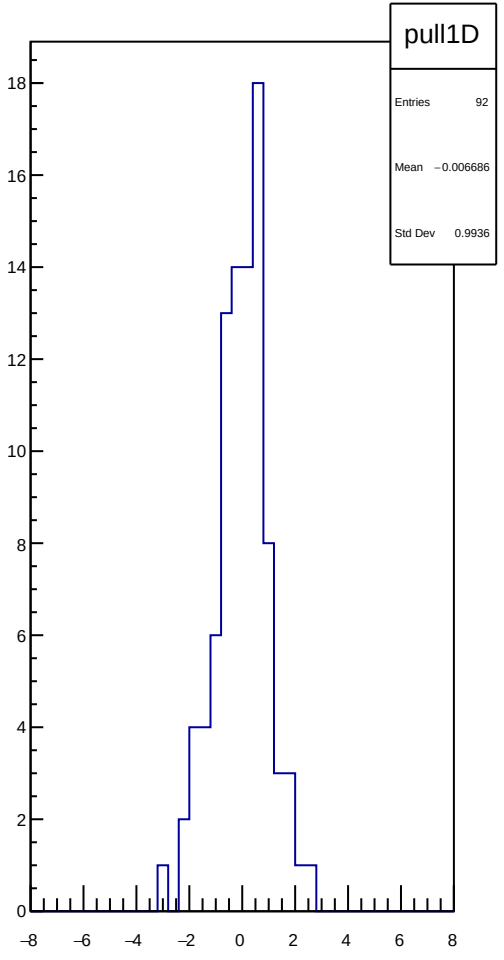

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 69.63 / 91
p0 −0.06587 ± 0.007218
pull
Entries 92
Mean −144.5
Std Dev 0
pull1D
Entries 92
Mean 0.03271
Std Dev 0.8694

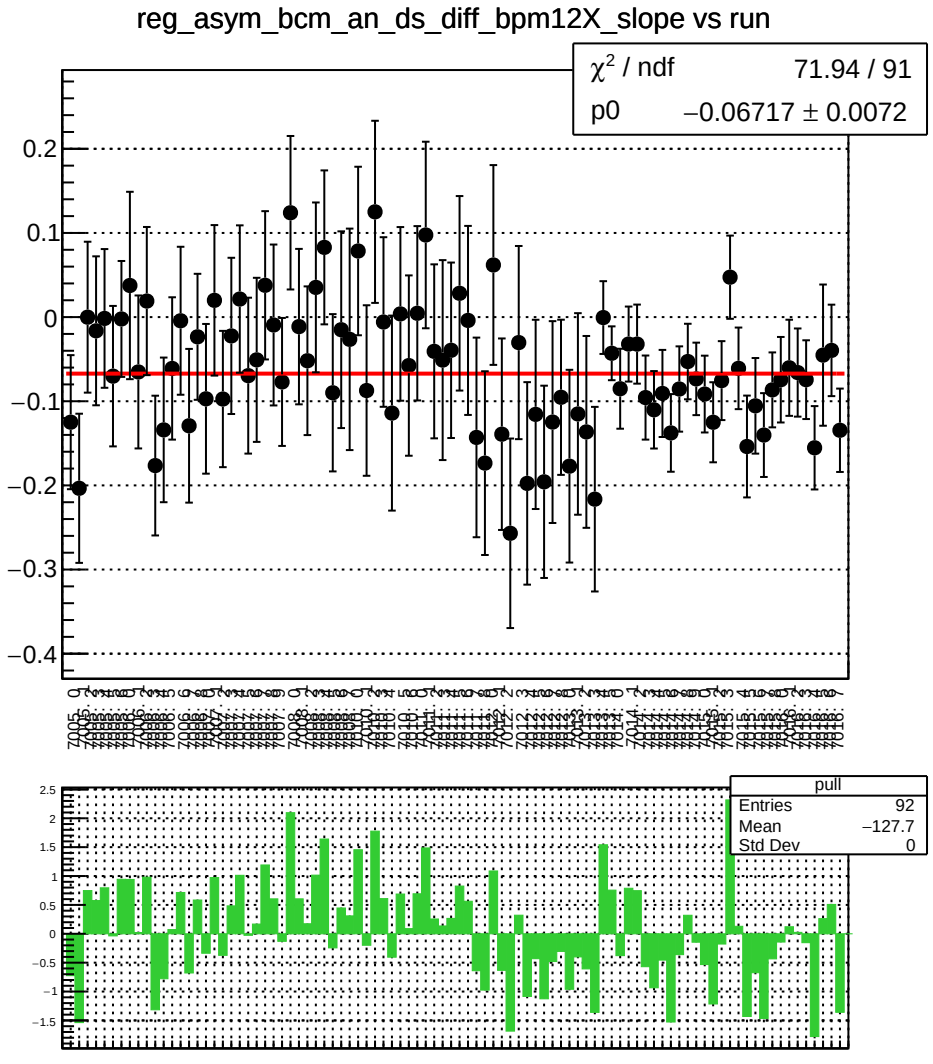

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 153.4 / 91
p0 −0.03042 ± 0.2223
pull
Entries 92
Mean 8.032
Std Dev 0
pull1D
Entries 92
Mean 0.2866
Std Dev 1.259

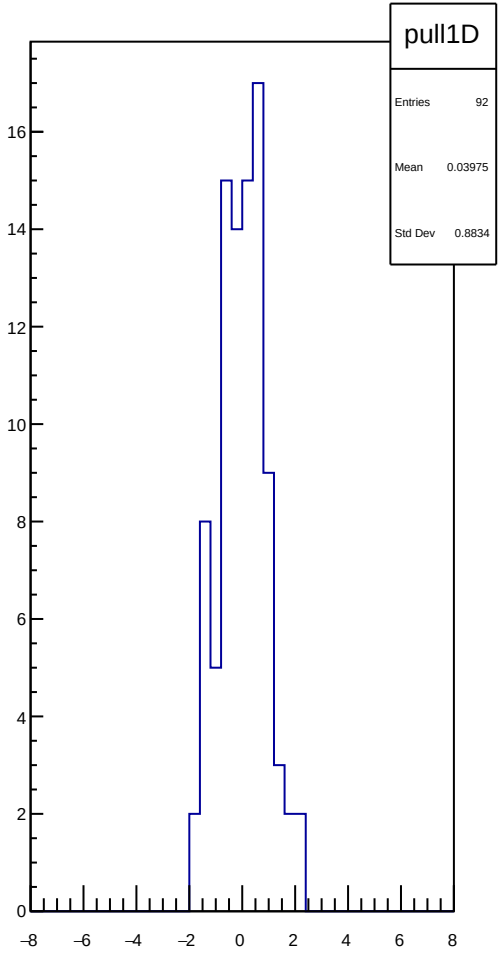

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 113.9 / 91
p0 1.002 ± 0.1491
pull
Entries 92
Mean 11.88
Std Dev 0
pull1D
Entries 92
Mean 0.1954
Std Dev 1.096

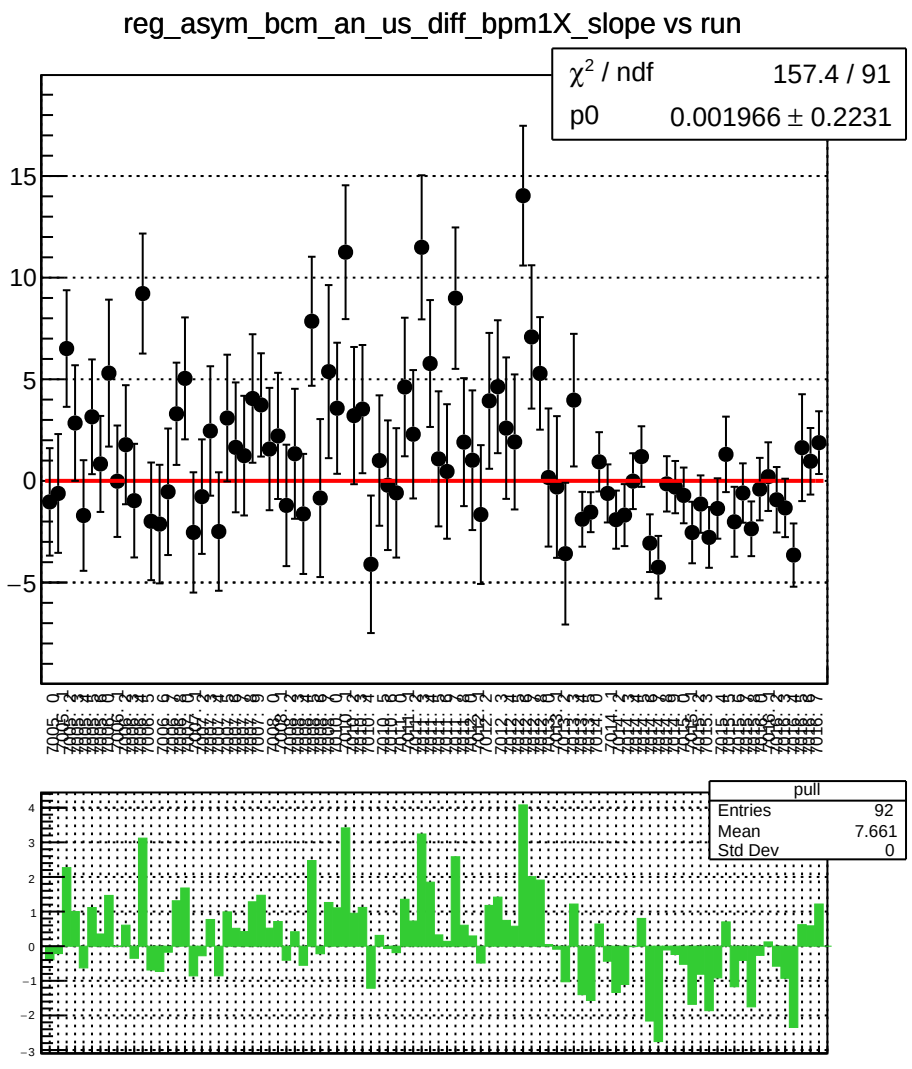

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 180.4 / 91
p0 −0.5366 ± 0.206
pull
Entries 92
Mean 5.642
Std Dev 0
pull1D
Entries 92
Mean −0.3462
Std Dev 1.357

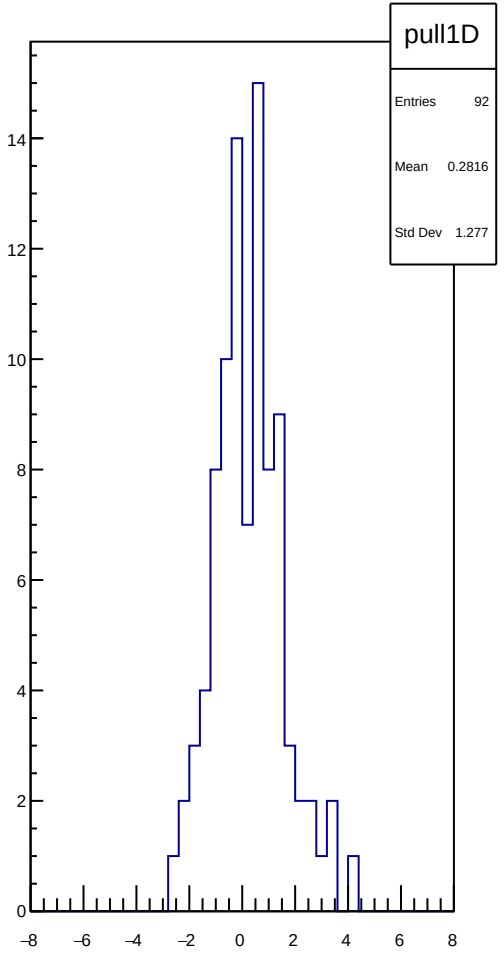

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 90.83 / 91
p0 −1.087 ± 0.1579
pull
Entries 92
Mean 309.1
Std Dev 0

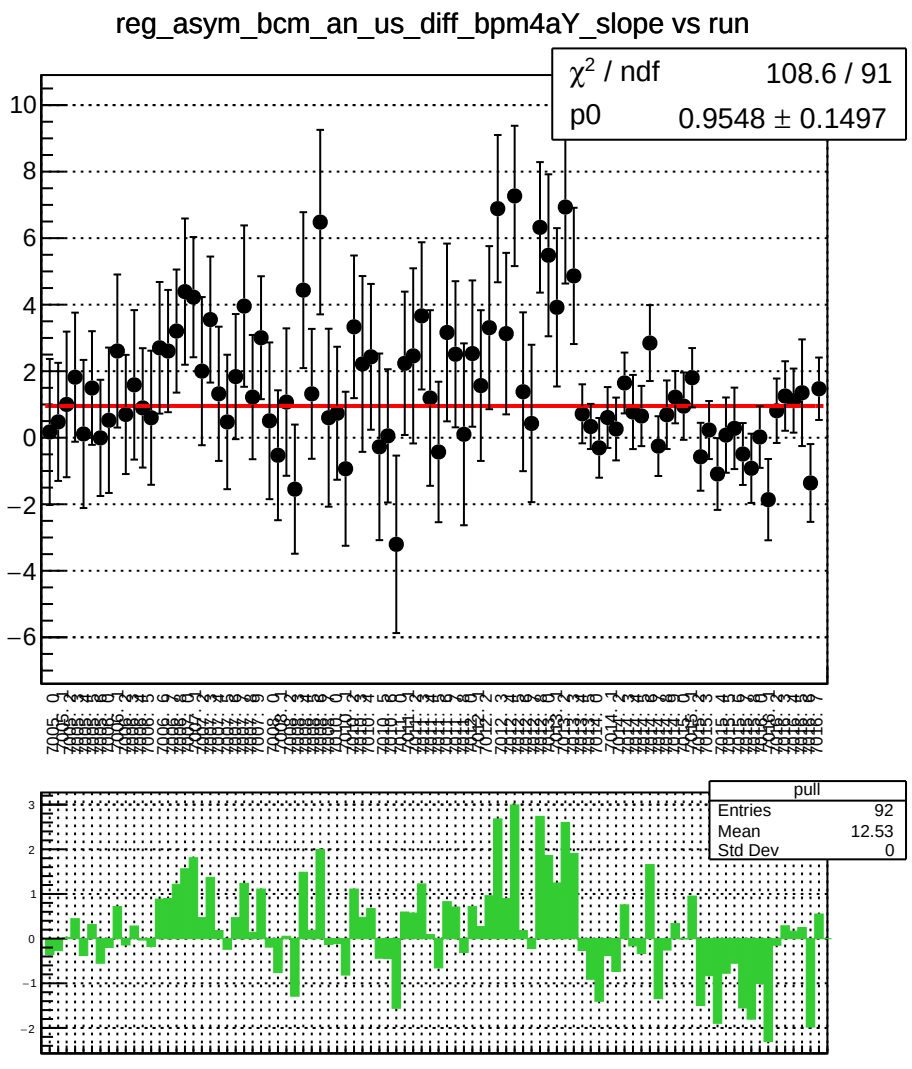

pull1D
Entries 92
Mean −0.006686
Std Dev 0.9936

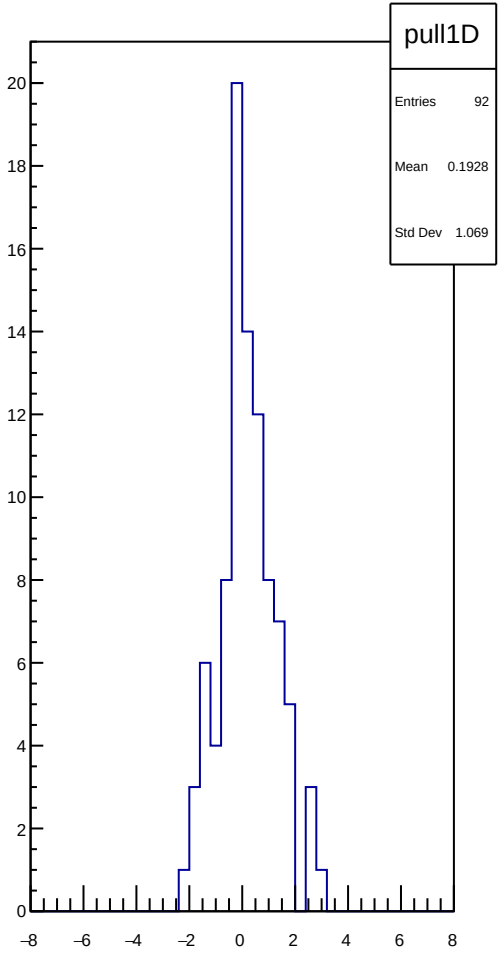

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 71.94 / 91
p0 −0.06717 ± 0.0072
pull
Entries 92
Mean −127.7
Std Dev 0

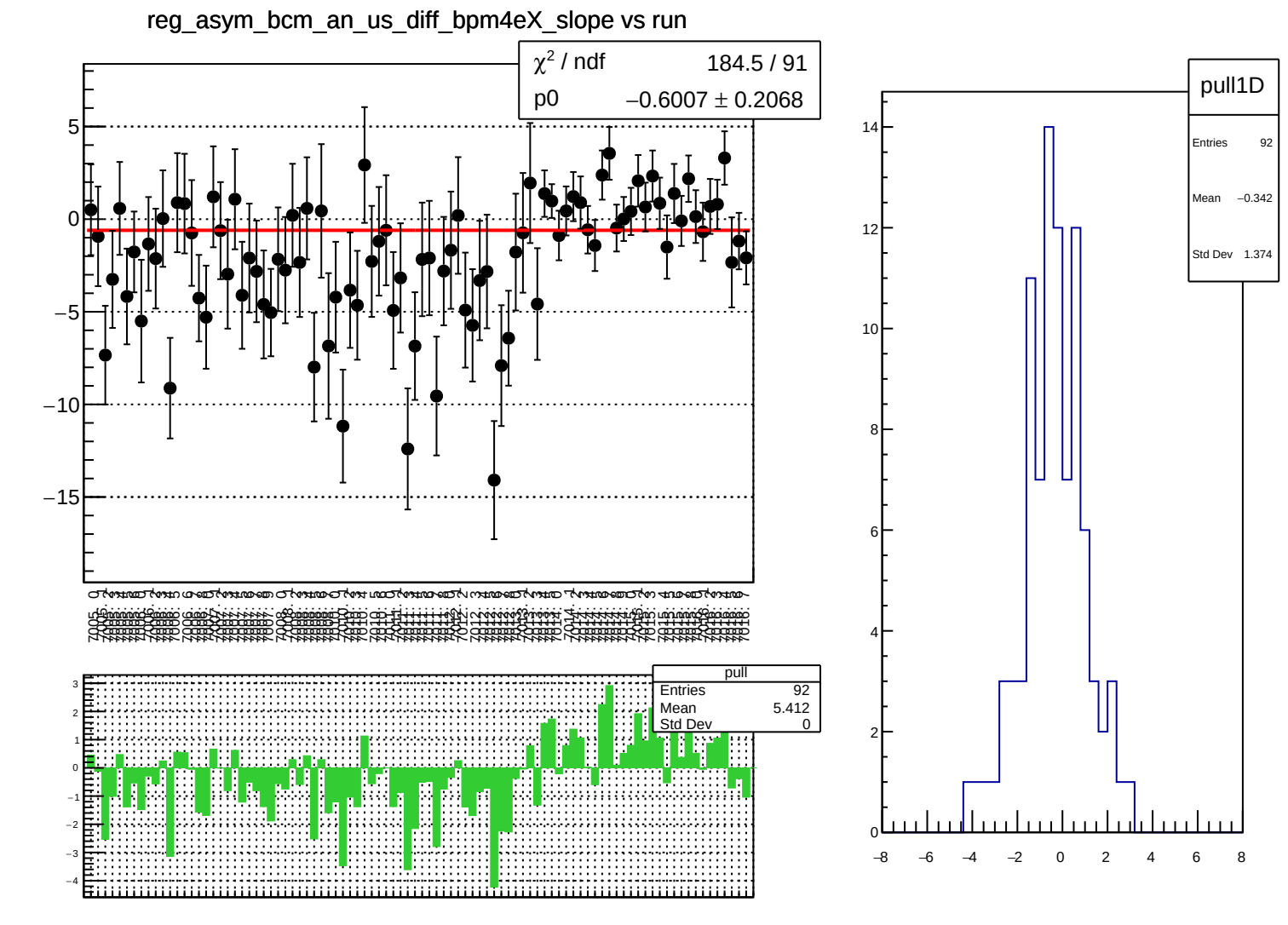

pull1D
Entries 92
Mean 0.03975
Std Dev 0.8834

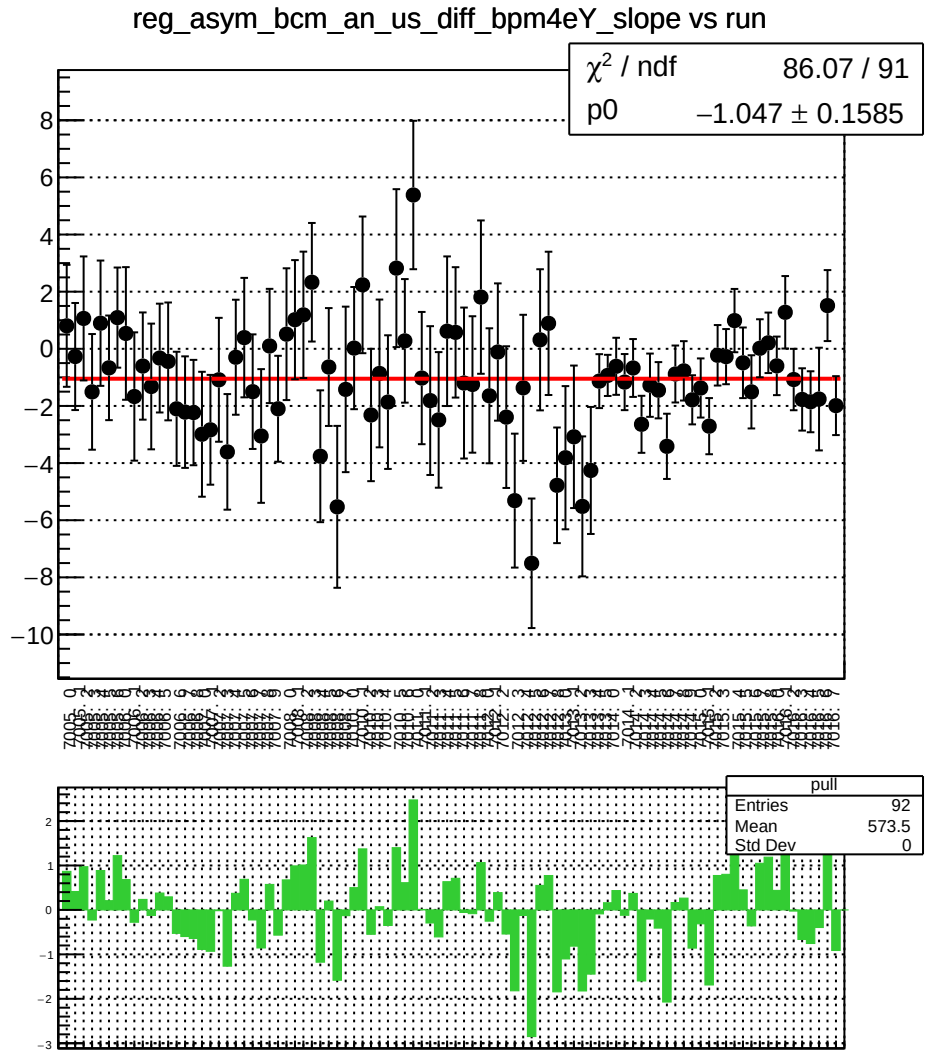

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
$\chi^2$ / ndf 157.4 / 91
p0 0.001966 ± 0.2231
pull
Entries 92
Mean 7.661
Std Dev 0

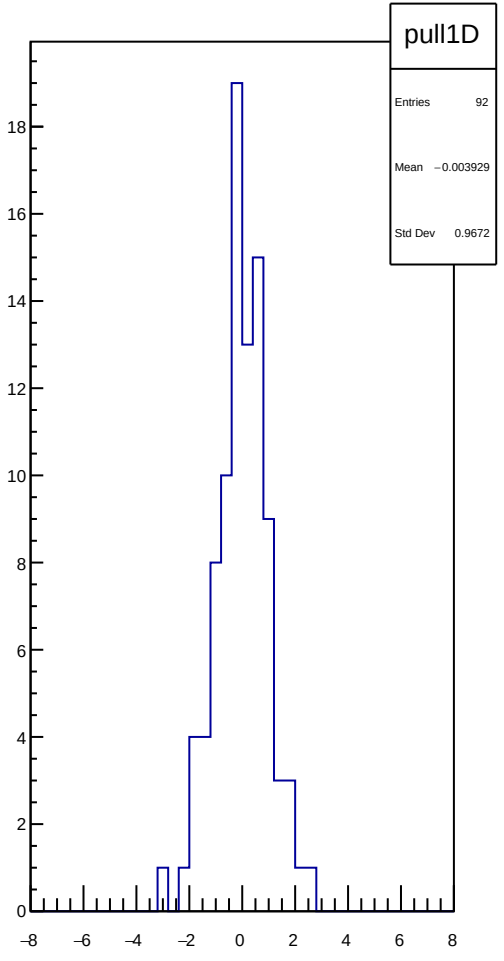

pull1D
Entries 92
Mean 0.2816
Std Dev 1.277

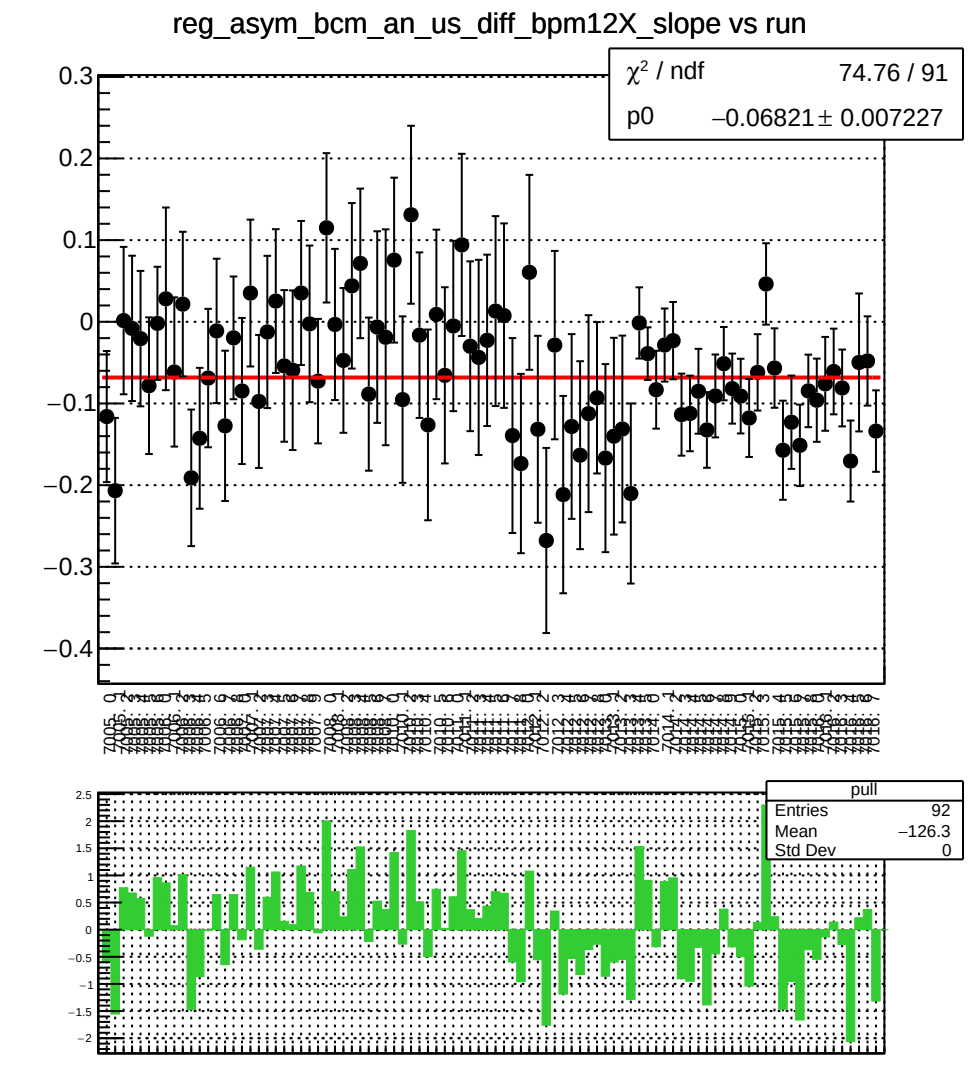

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 108.6 / 91
p0 0.9548 ± 0.1497
pull
Entries 92
Mean 12.53
Std Dev 0

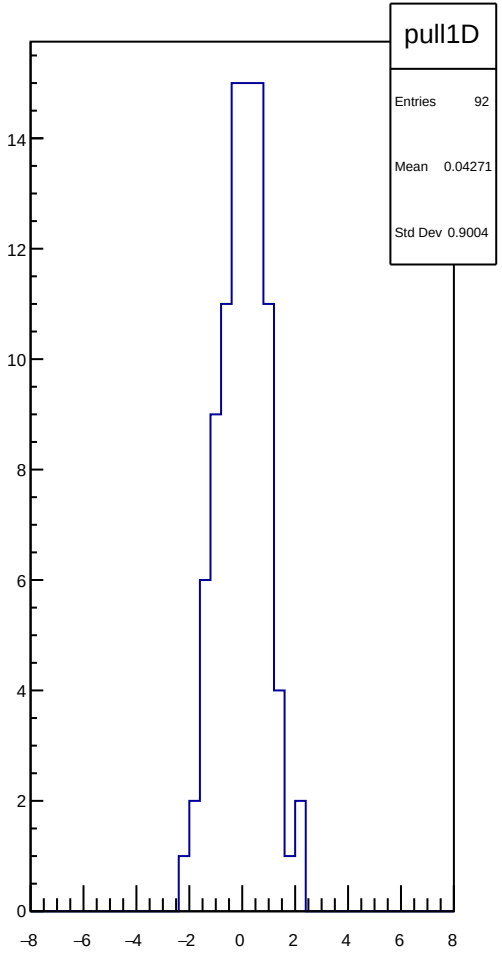

pull1D
Entries 92
Mean 0.1928
Std Dev 1.069

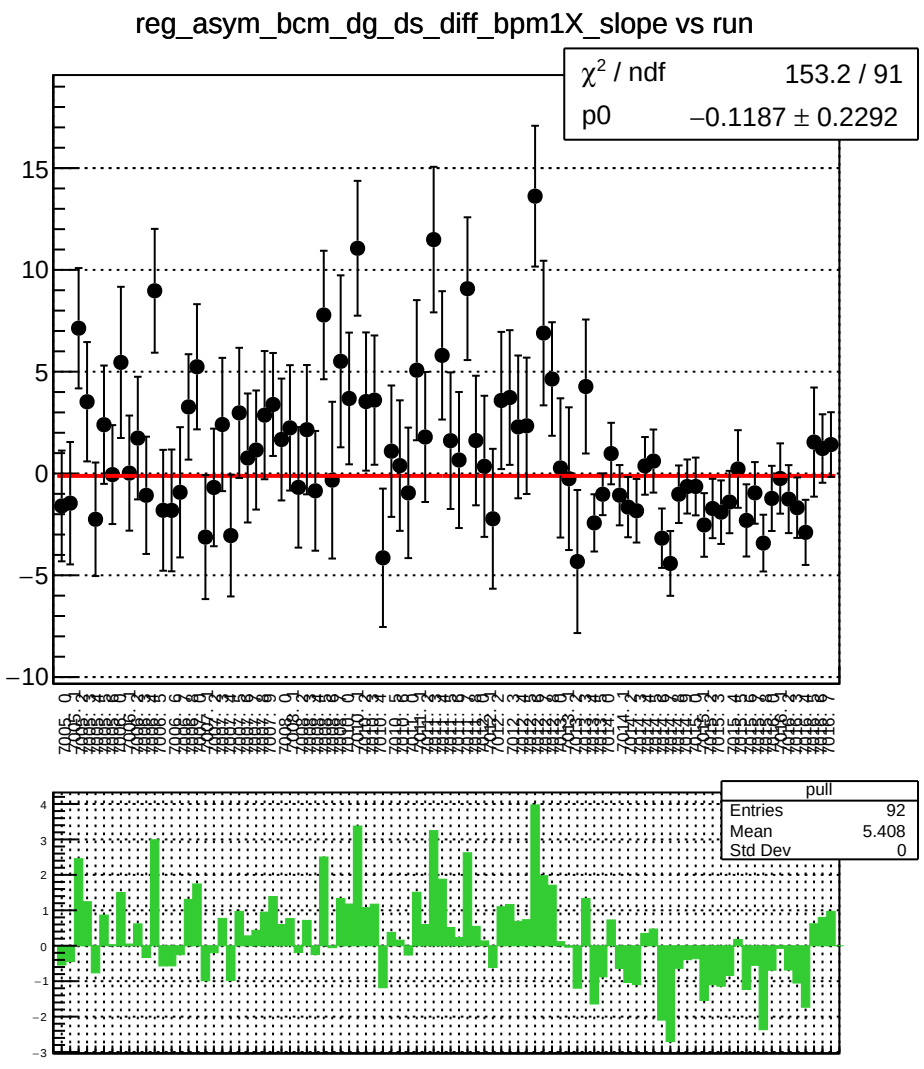

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 184.5 / 91
p0 −0.6007 ± 0.2068
pull
Entries 92
Mean 5.412
Std Dev 0
pull1D
Entries 92
Mean −0.342
Std Dev 1.374

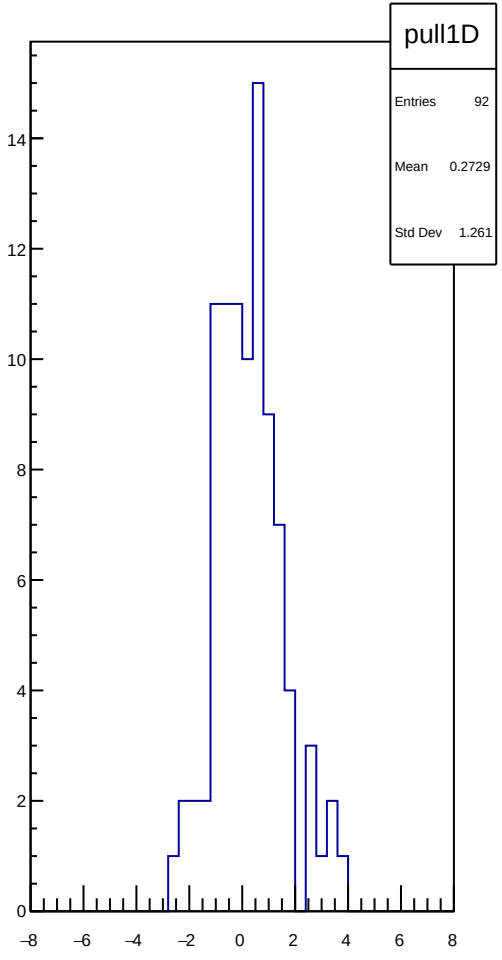

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 86.07 / 91
p0 −1.047 ± 0.1585
pull
Entries 92
Mean 573.5
Std Dev 0

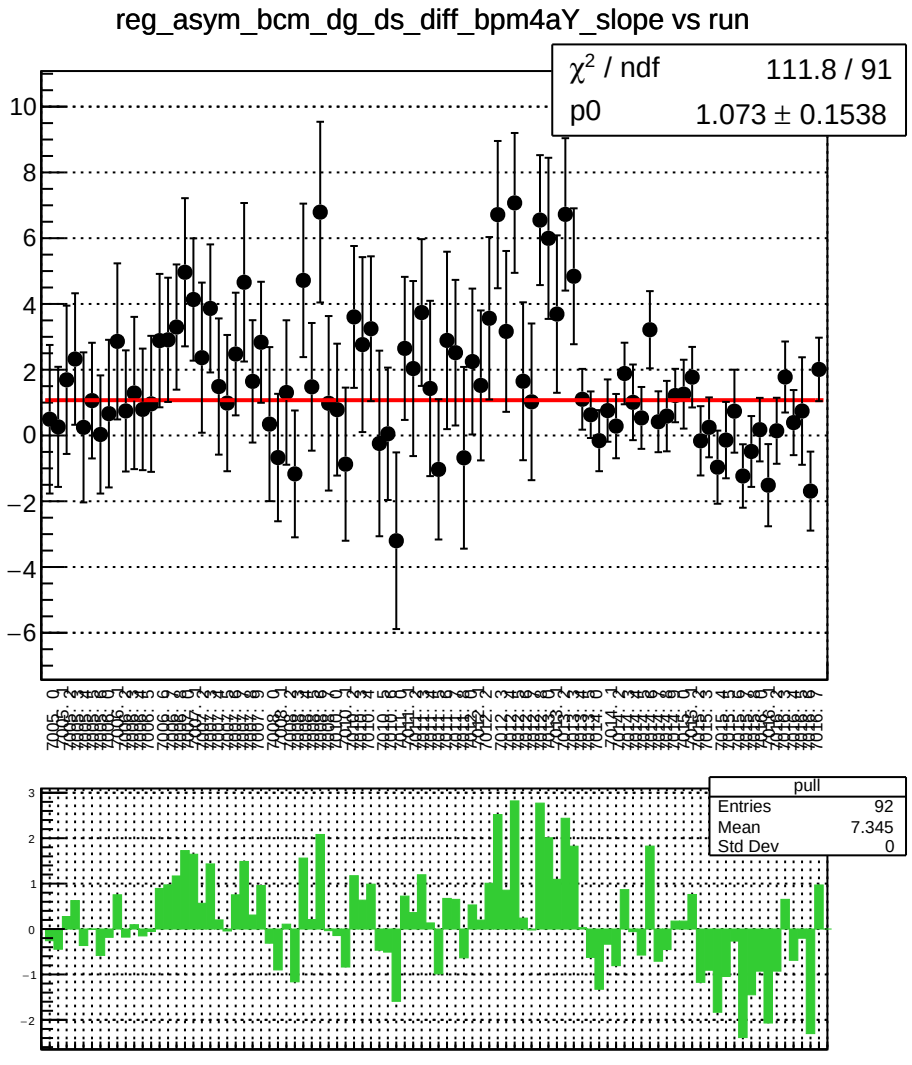

pull1D
Entries 92
Mean −0.003929
Std Dev 0.9672

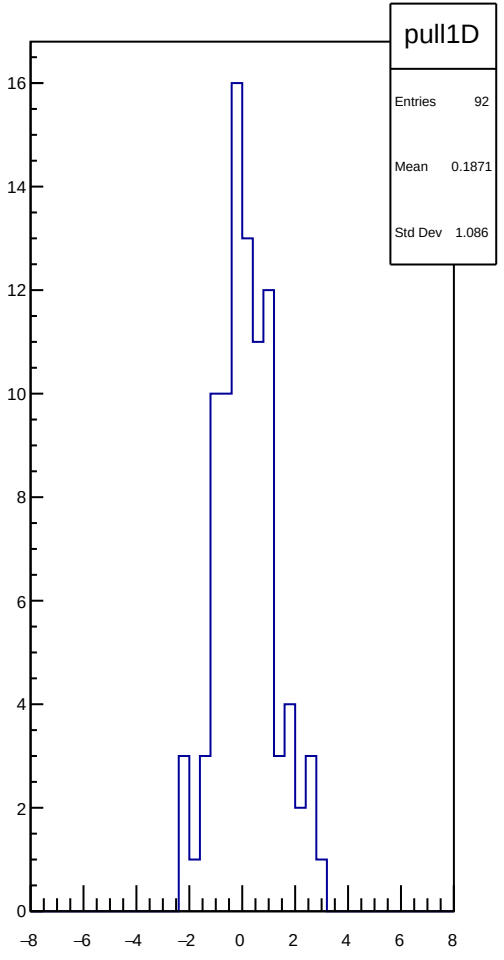

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 74.76 / 91
p0 −0.06821 ± 0.007227
pull
Entries 92
Mean −126.3
Std Dev 0

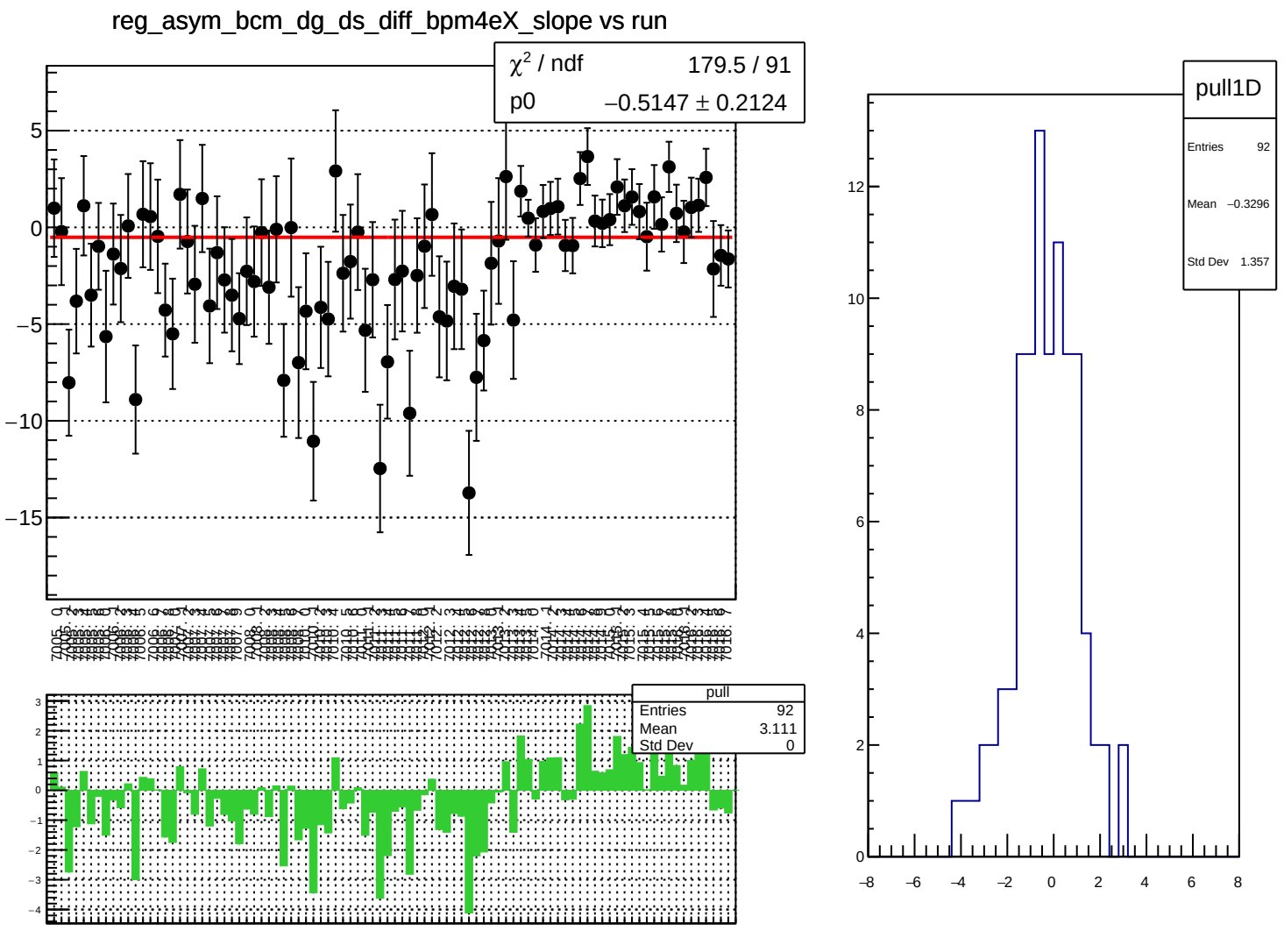

pull1D
Entries 92
Mean 0.04271
Std Dev 0.9004

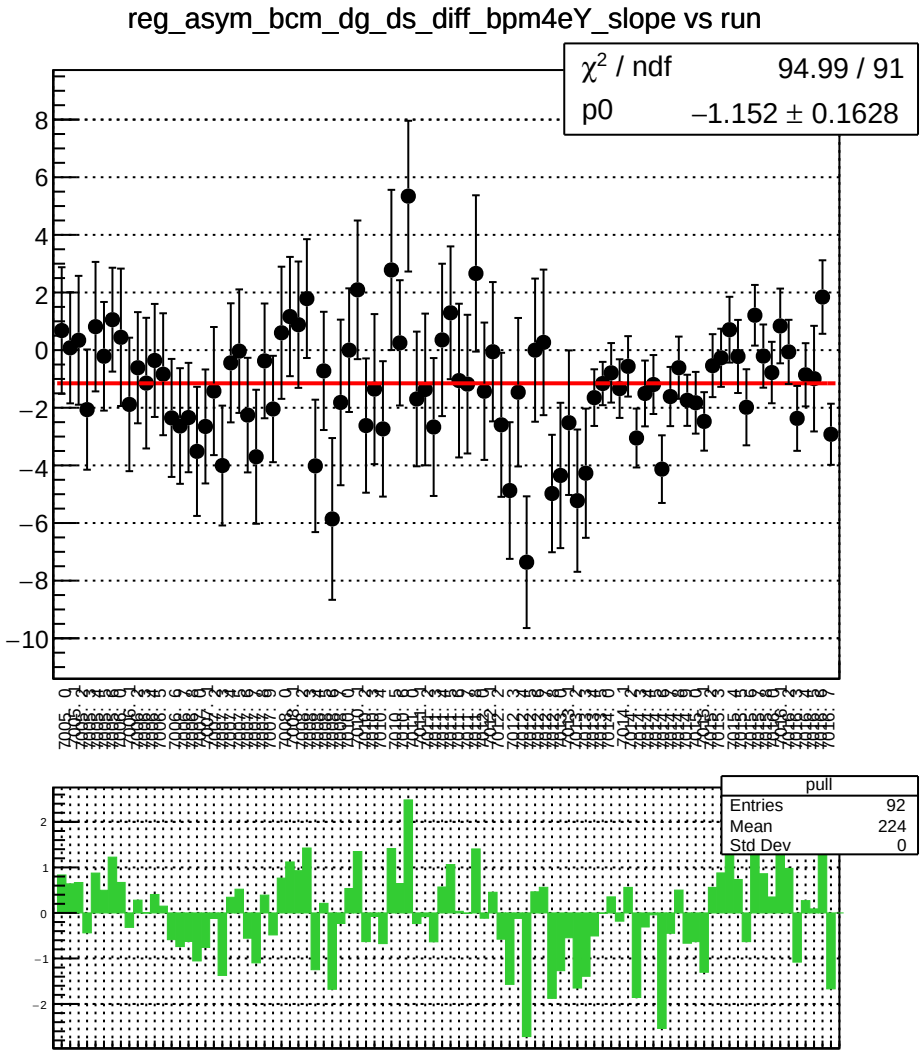

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 153.2 / 91
p0 −0.1187 ± 0.2292
pull
Entries 92
Mean 5.408
Std Dev 0

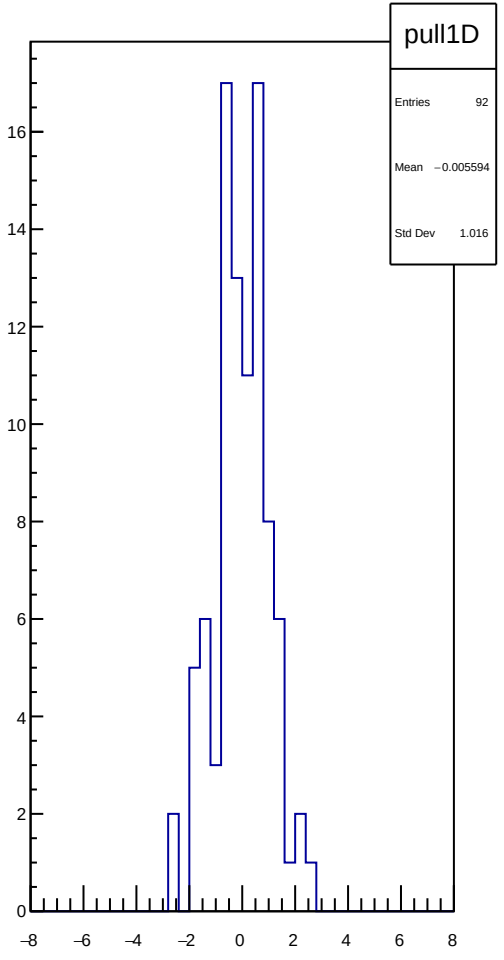

pull1D
Entries 92
Mean 0.2729
Std Dev 1.261

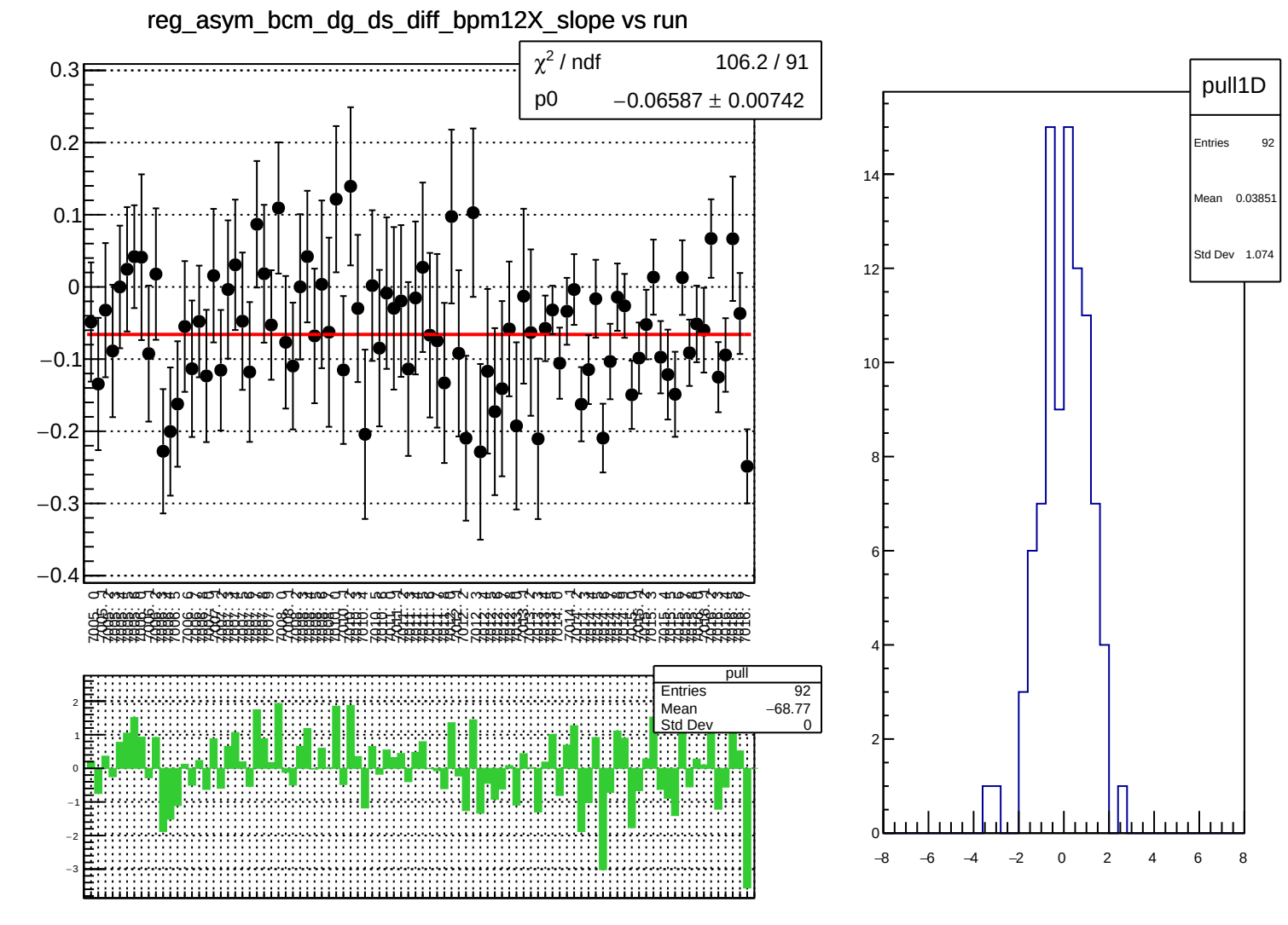

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 111.8 / 91
p0 1.073 ± 0.1538
pull
Entries 92
Mean 7.345
Std Dev 0

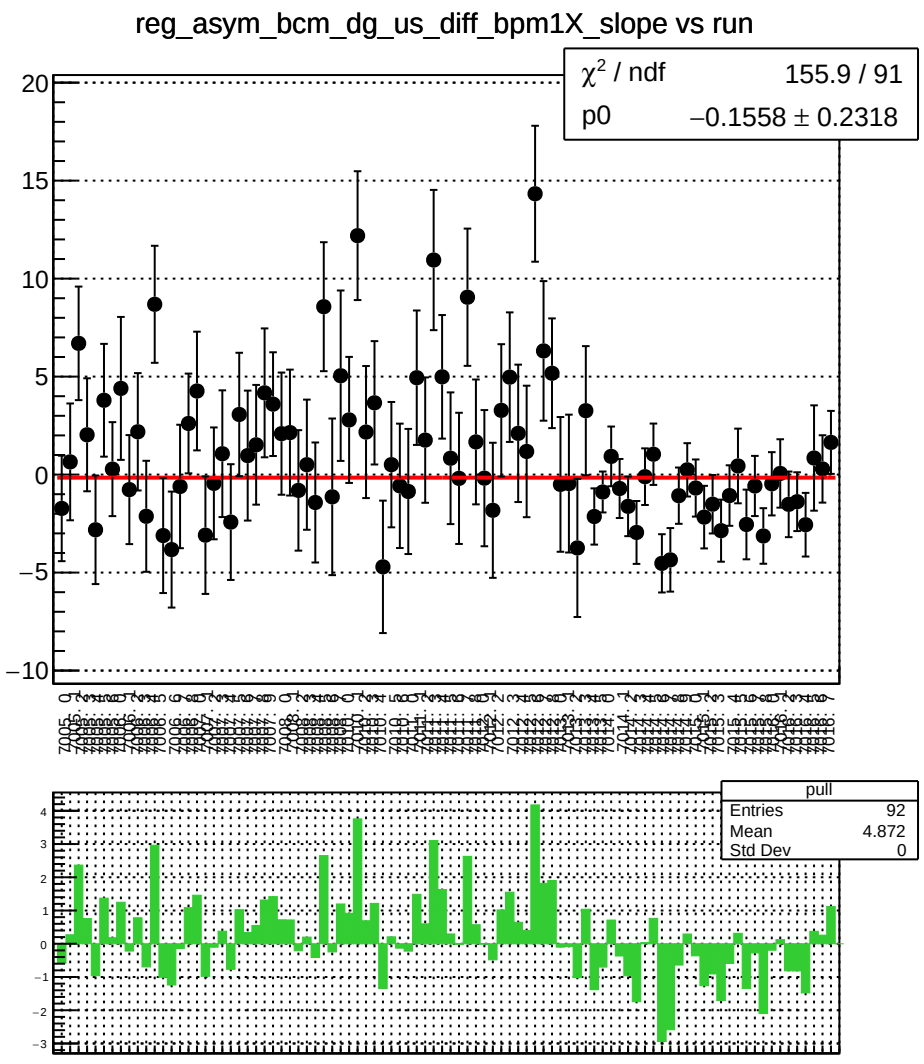

pull1D
Entries 92
Mean 0.1871
Std Dev 1.086

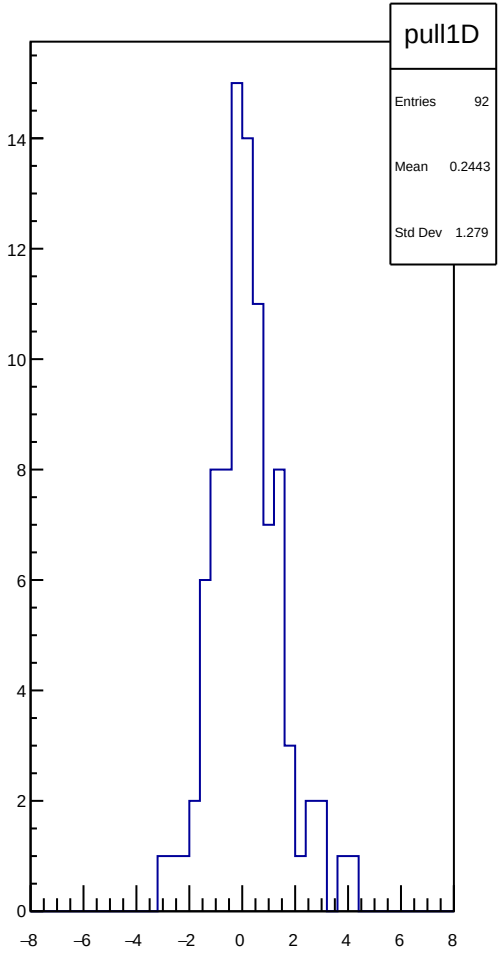

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 179.5 / 91
p0 −0.5147 ± 0.2124
pull
Entries 92
Mean 3.111
Std Dev 0
pull1D
Entries 92
Mean −0.3296
Std Dev 1.357

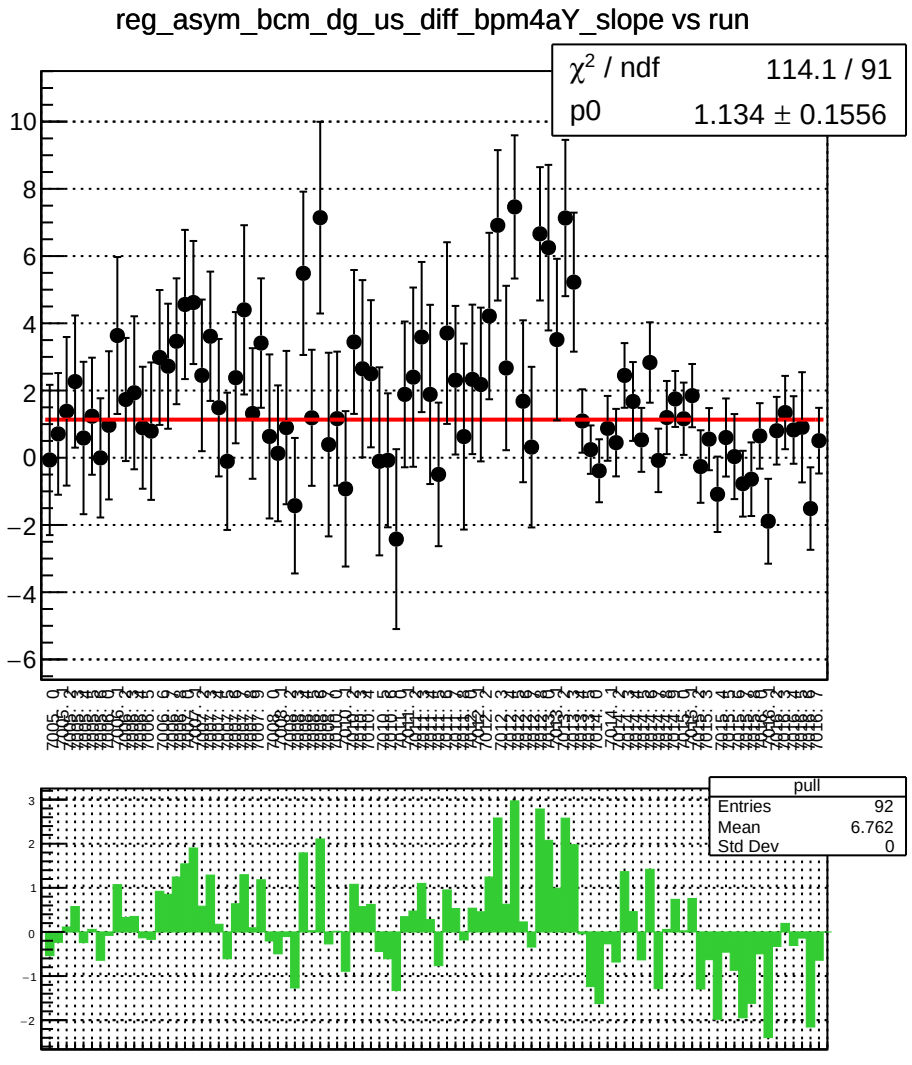

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 94.99 / 91
p0 −1.152 ± 0.1628
pull
Entries 92
Mean 224
Std Dev 0

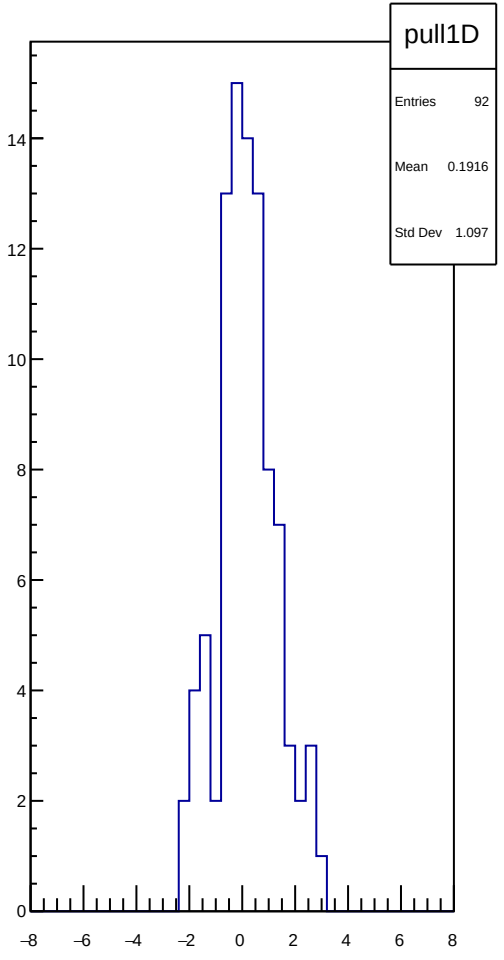

pull1D
Entries 92
Mean −0.005594
Std Dev 1.016

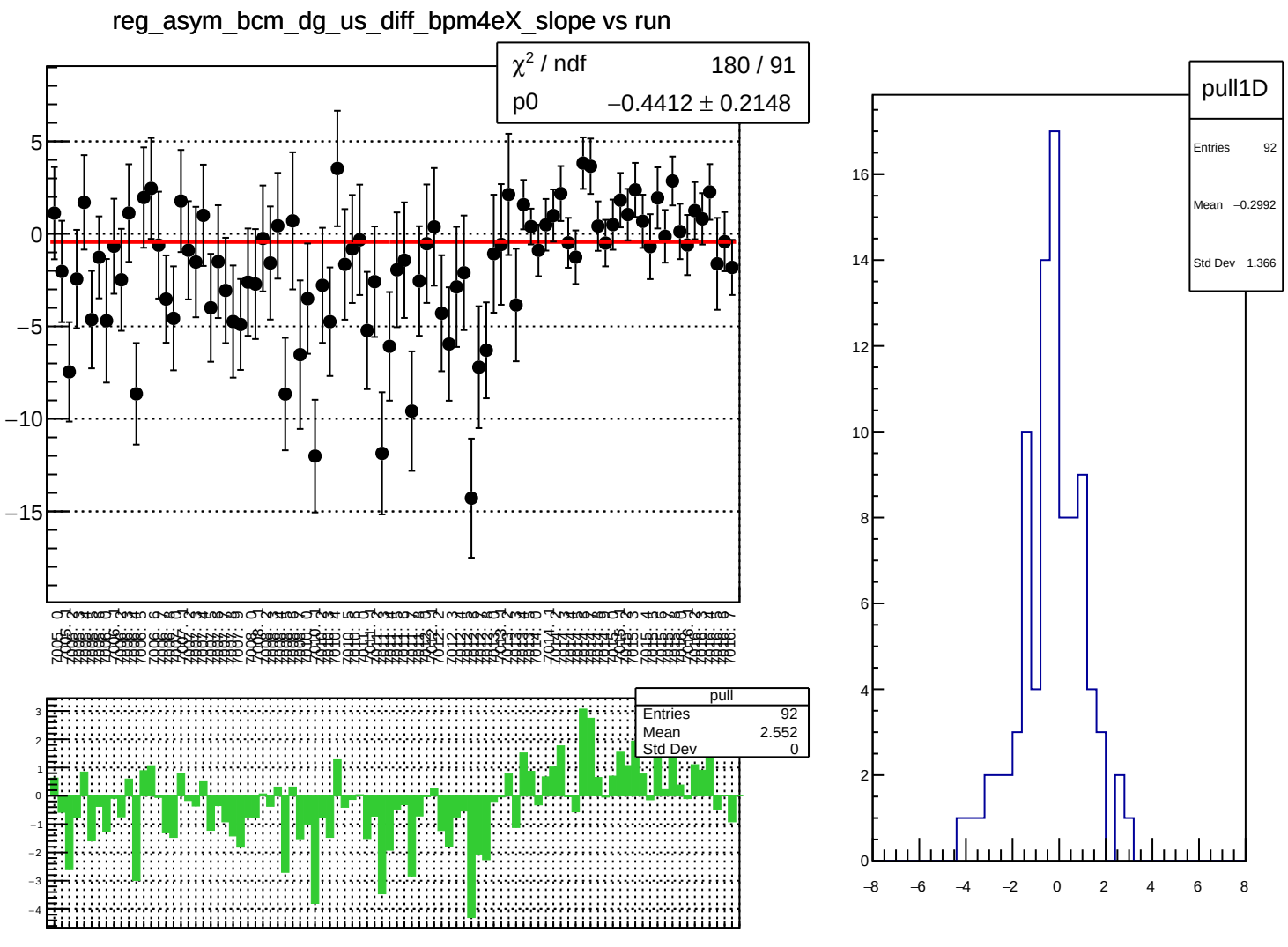

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 106.2 / 91
p0 −0.06587 ± 0.00742
pull
Entries 92
Mean −68.77
Std Dev 0
pull1D
Entries 92
Mean 0.03851
Std Dev 1.074

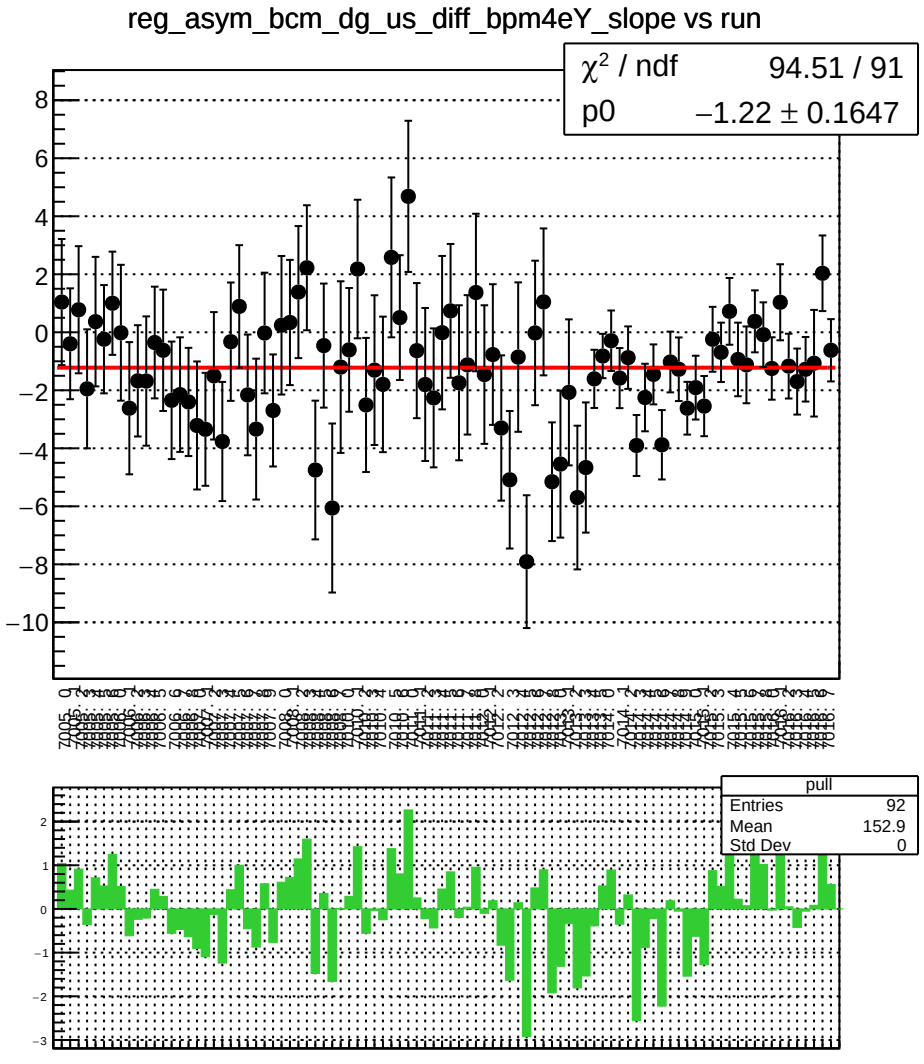

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 155.9 / 91
p0 −0.1558 ± 0.2318
pull
Entries 92
Mean 4.872
Std Dev 0

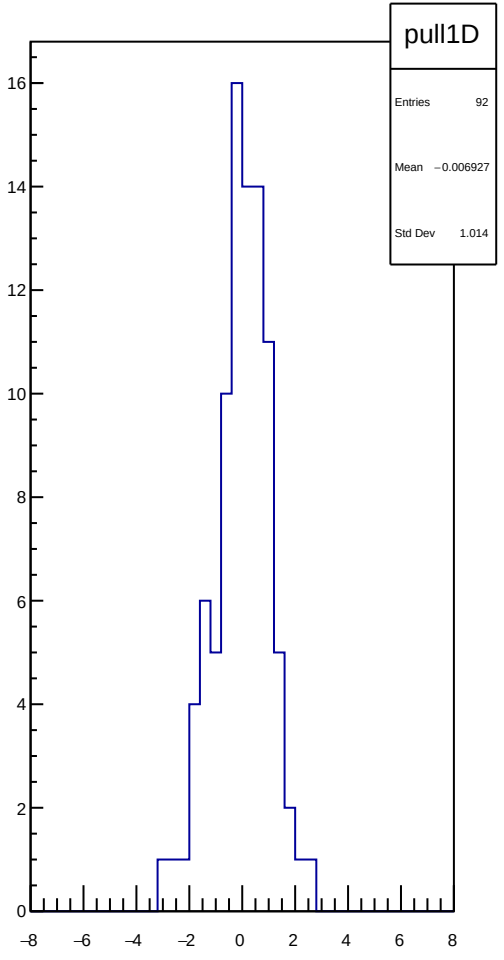

pull1D
Entries 92
Mean 0.2443
Std Dev 1.279

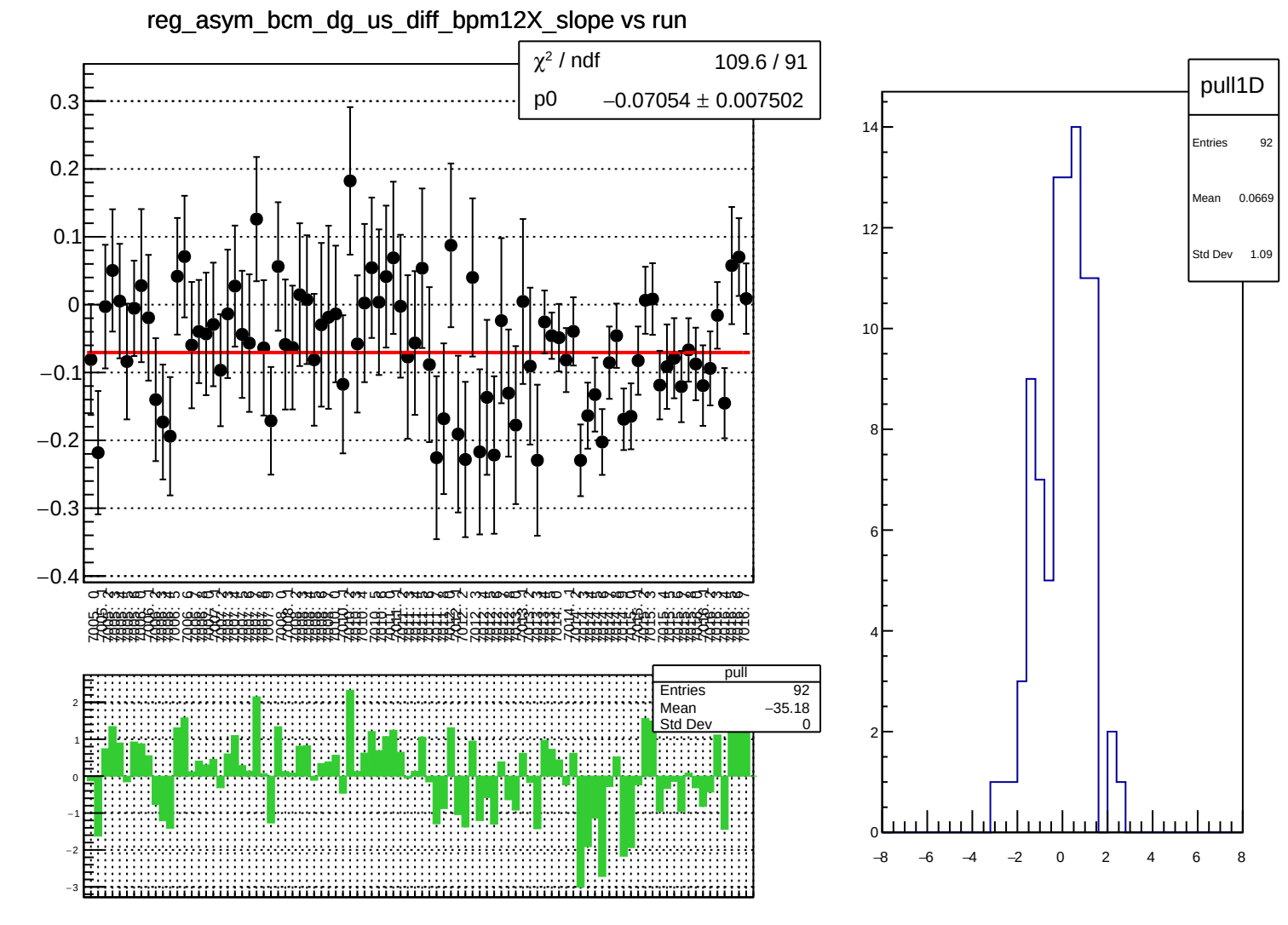

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 114.1 / 91
p0 1.134 ± 0.1556
pull
Entries 92
Mean 6.762
Std Dev 0

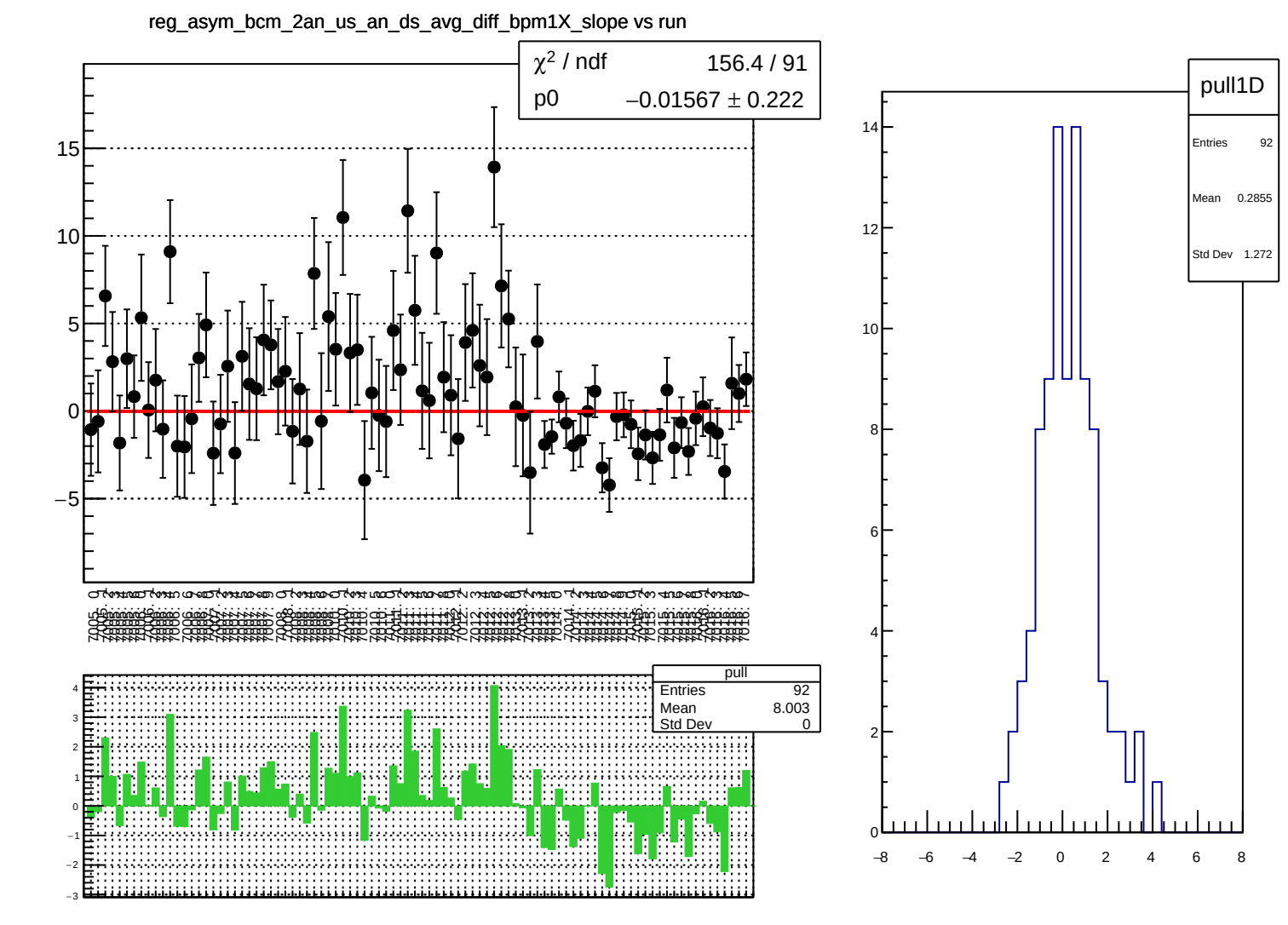

pull1D
Entries 92
Mean 0.1916
Std Dev 1.097

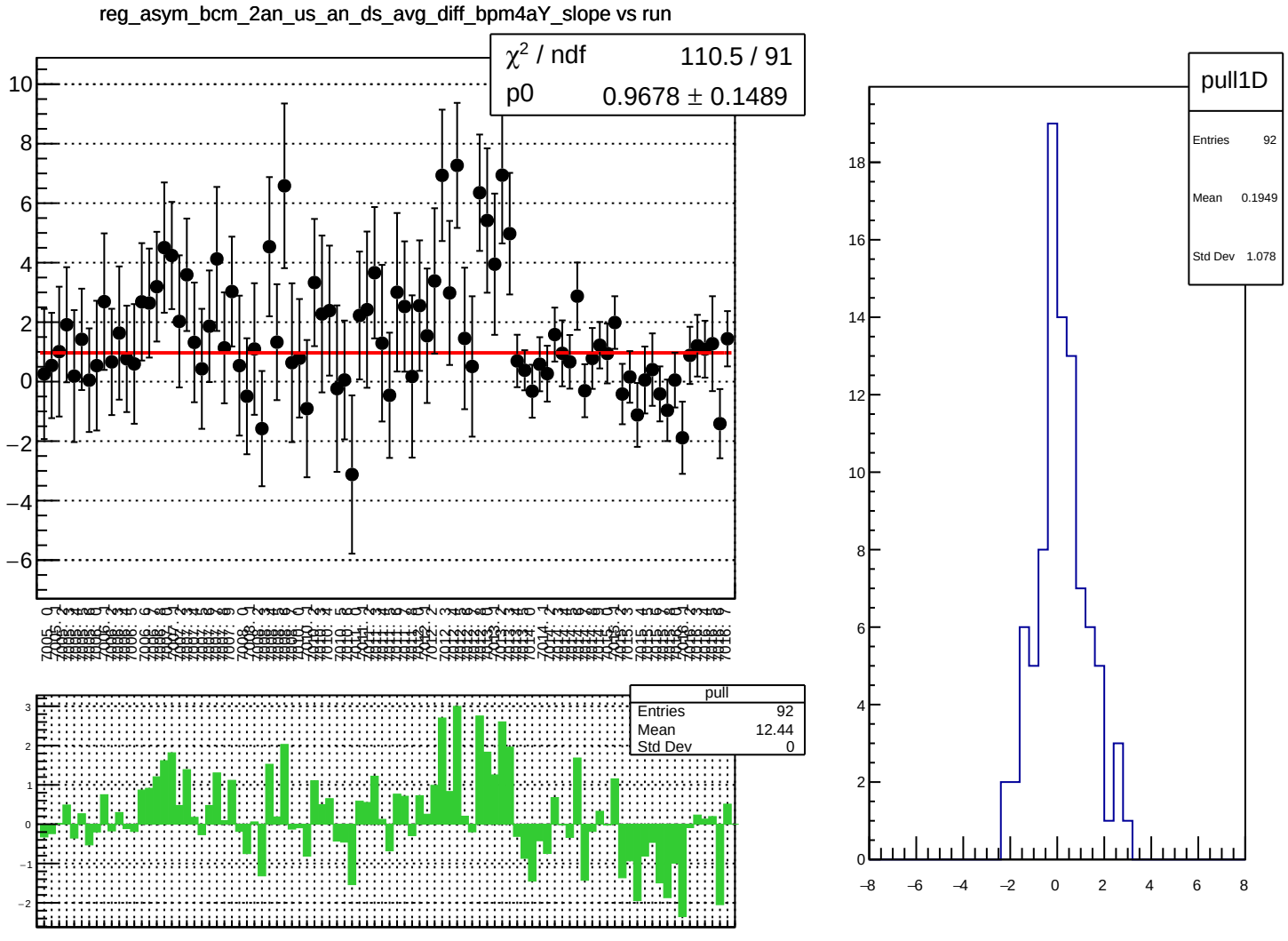

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 180 / 91
p0 −0.4412 ± 0.2148
pull
Entries 92
Mean 2.552
Std Dev 0
pull1D
Entries 92
Mean −0.2992
Std Dev 1.366

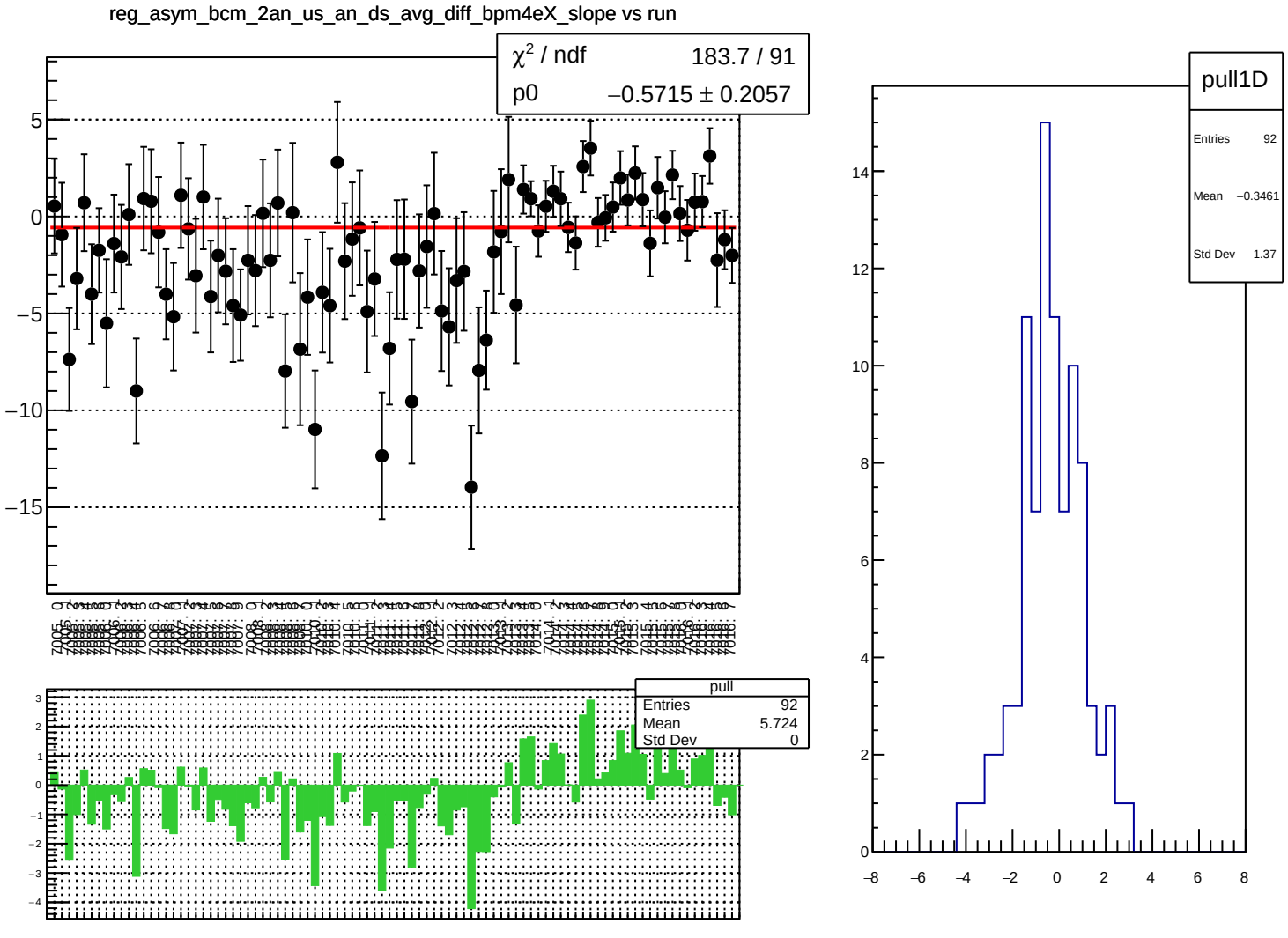

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 94.51 / 91
p0 −1.22 ± 0.1647
pull
Entries 92
Mean 152.9
Std Dev 0

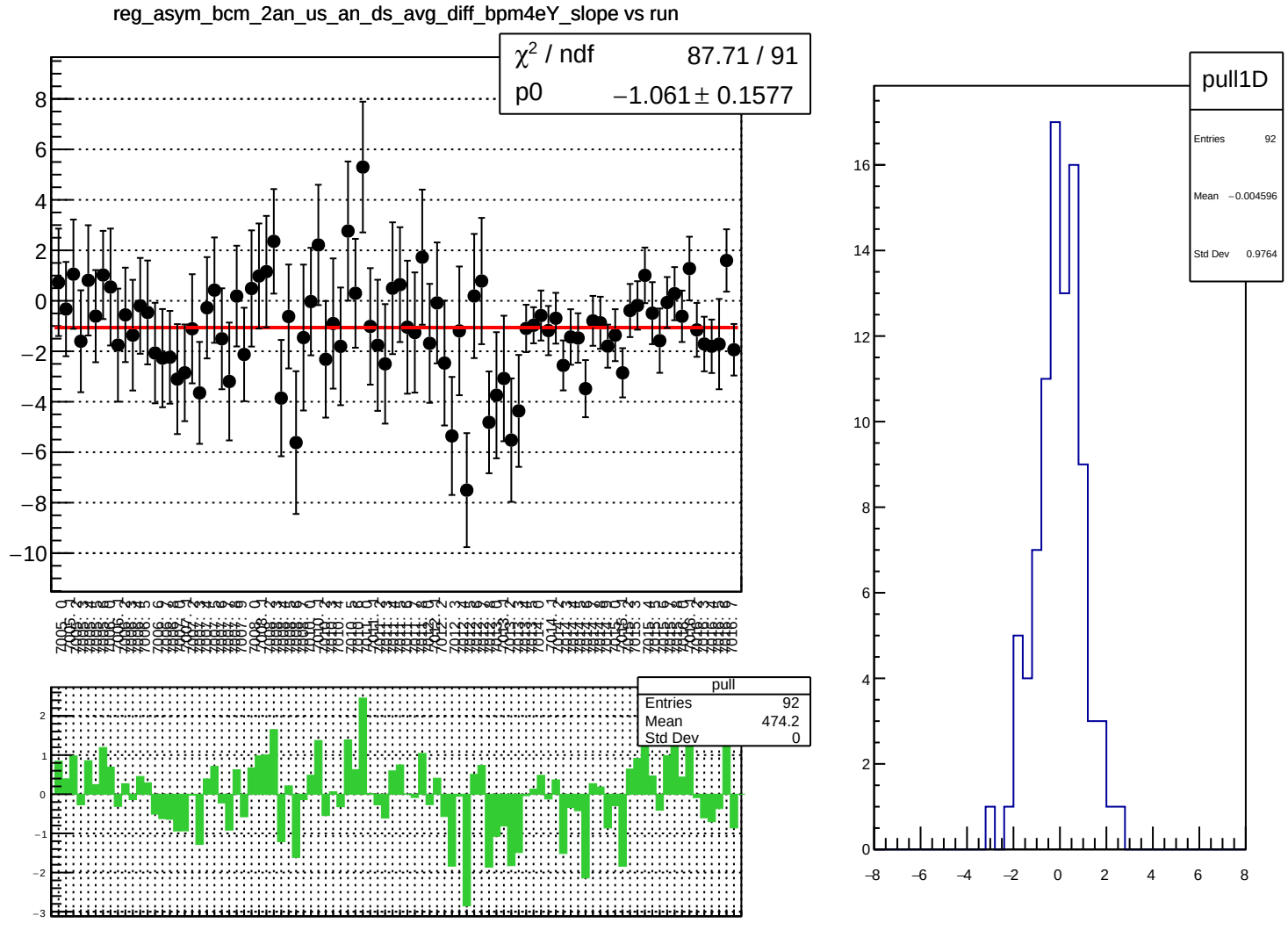

pull1D
Entries 92
Mean −0.006927
Std Dev 1.014

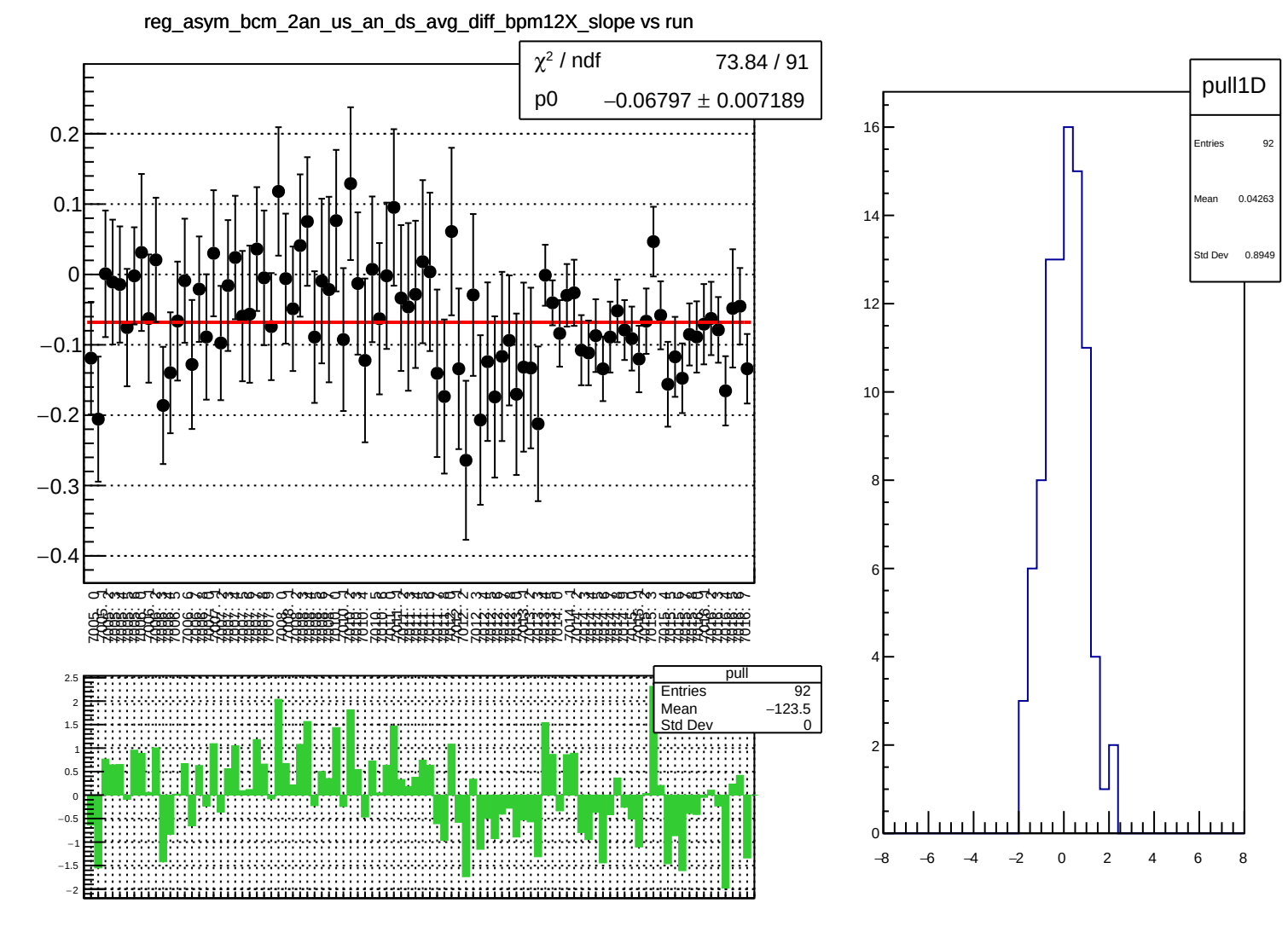

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 109.6 / 91
p0 −0.07054 ± 0.007502
pull
Entries 92
Mean −35.18
Std Dev 0
pull1D
Entries 92
Mean 0.0669
Std Dev 1.09

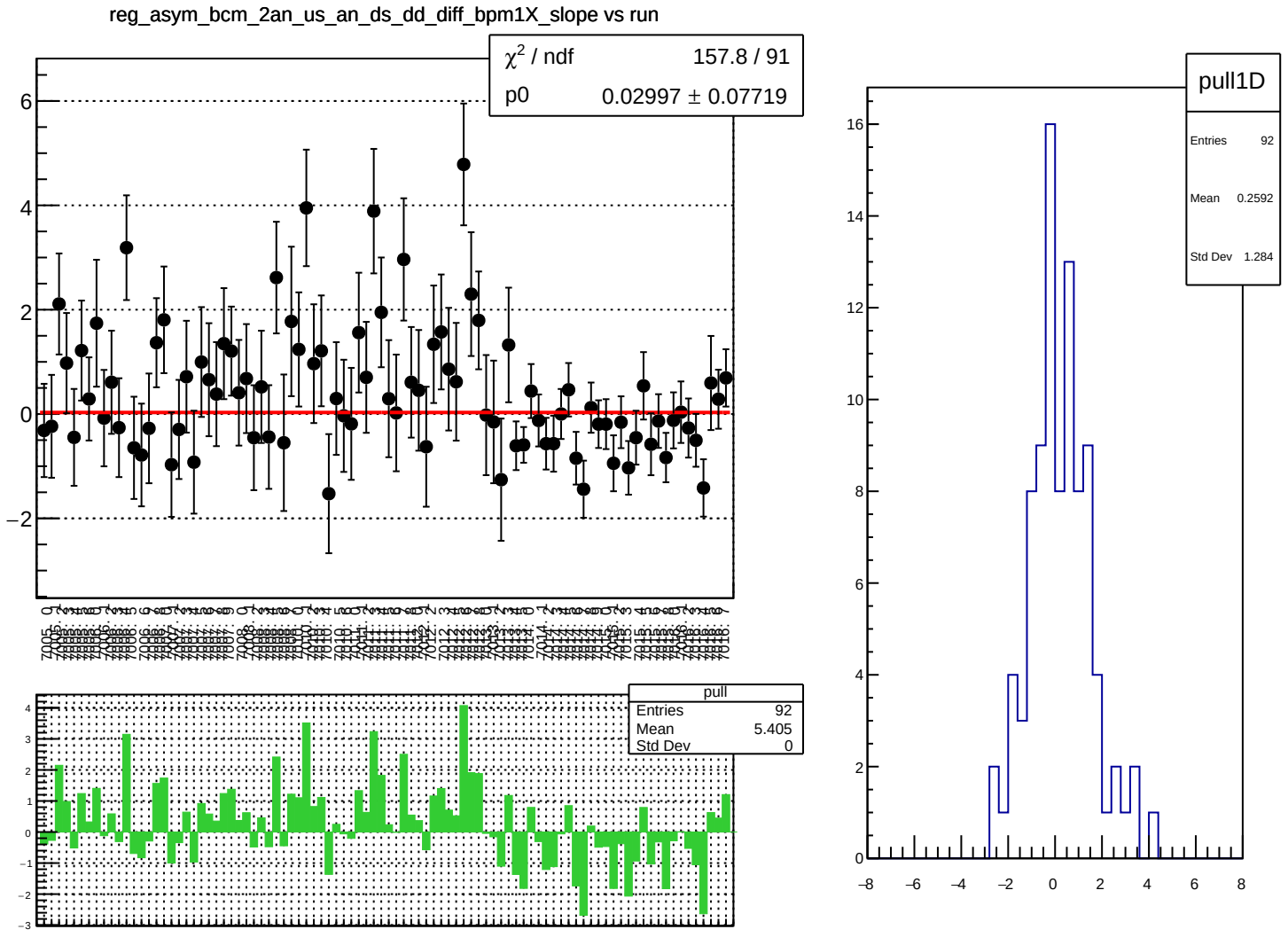

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 156.4 / 91
p0 −0.01567 ± 0.222
pull
Entries 92
Mean 8.003
Std Dev 0
pull1D
Entries 92
Mean 0.2855
Std Dev 1.272

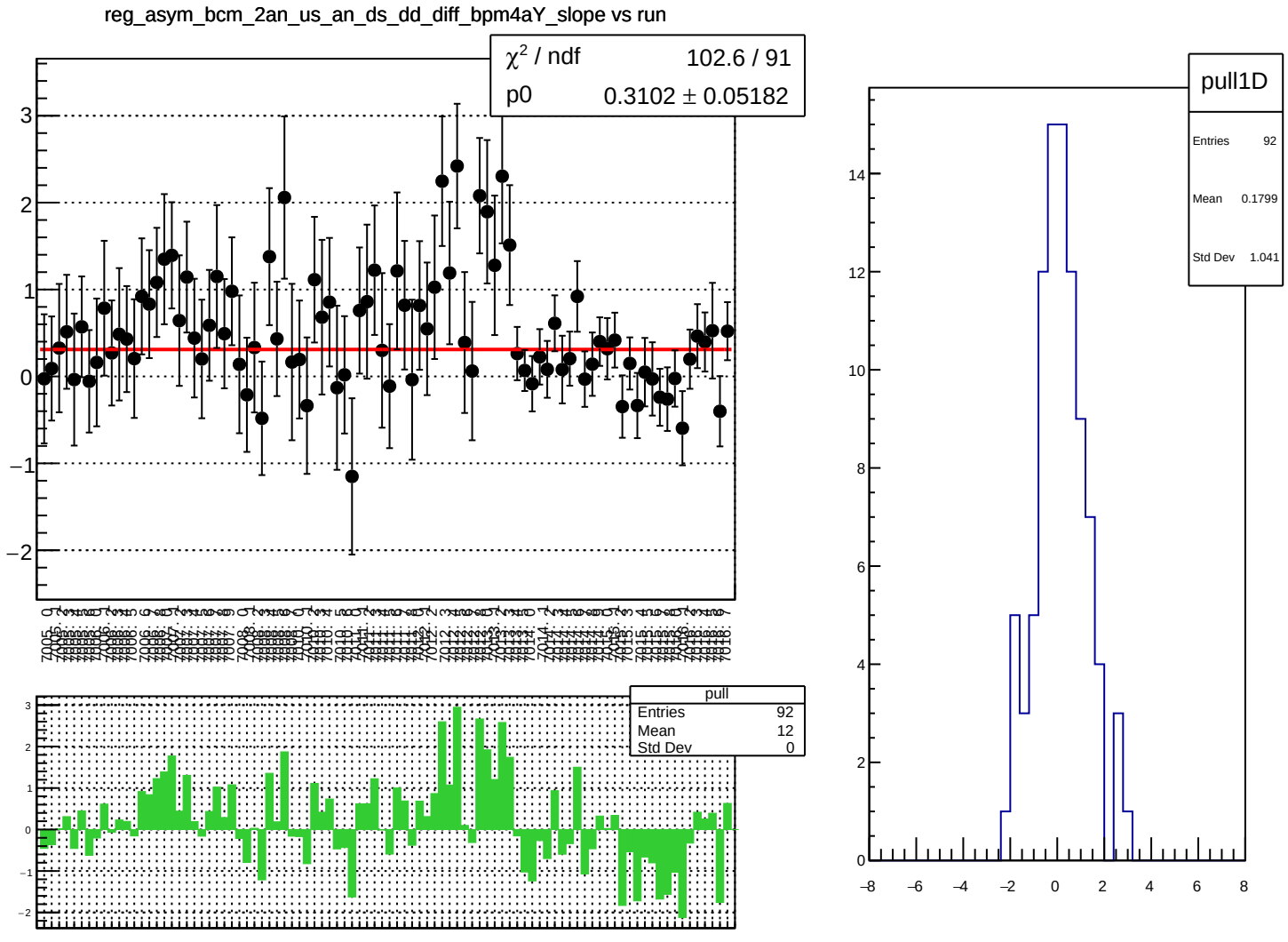

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 110.5 / 91
p0 0.9678 ± 0.1489
pull
Entries 92
Mean 12.44
Std Dev 0
pull1D
Entries 92
Mean 0.1949
Std Dev 1.078

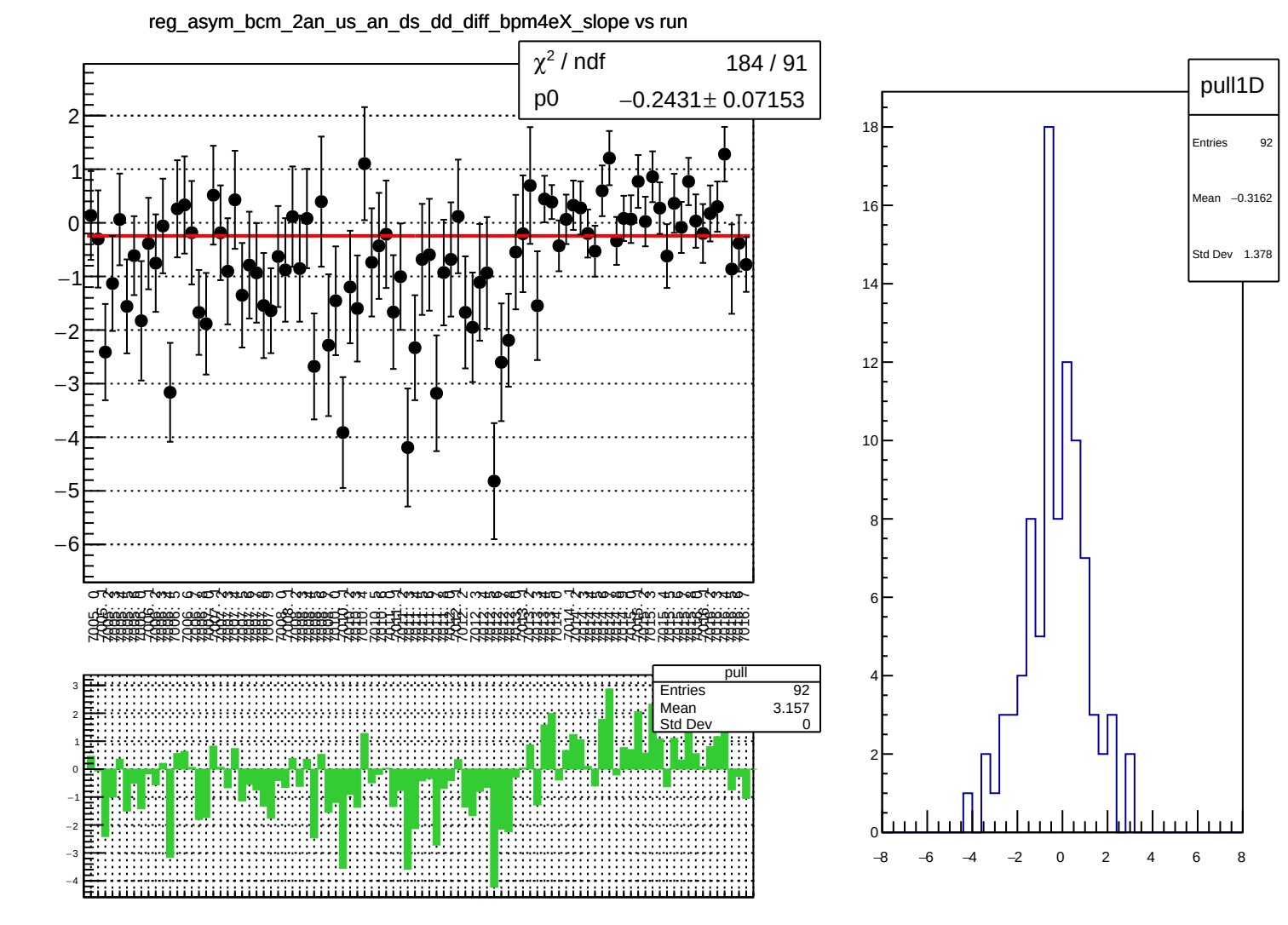

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 183.7 / 91
p0 −0.5715 ± 0.2057
pull
Entries 92
Mean 5.724
Std Dev 0
pull1D
Entries 92
Mean −0.3461
Std Dev 1.37

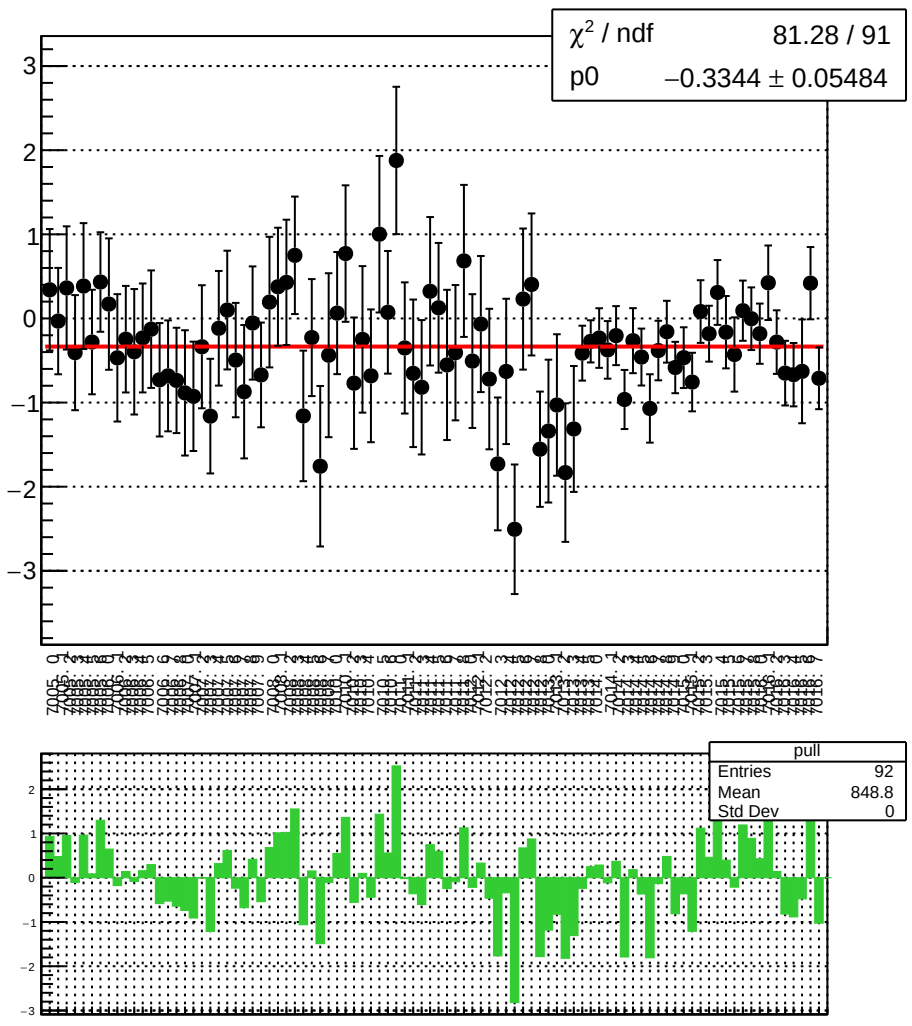

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 87.71 / 91
p0 −1.061 ± 0.1577
pull
Entries 92
Mean 474.2
Std Dev 0
pull1D
Entries 92
Mean −0.004596
Std Dev 0.9764

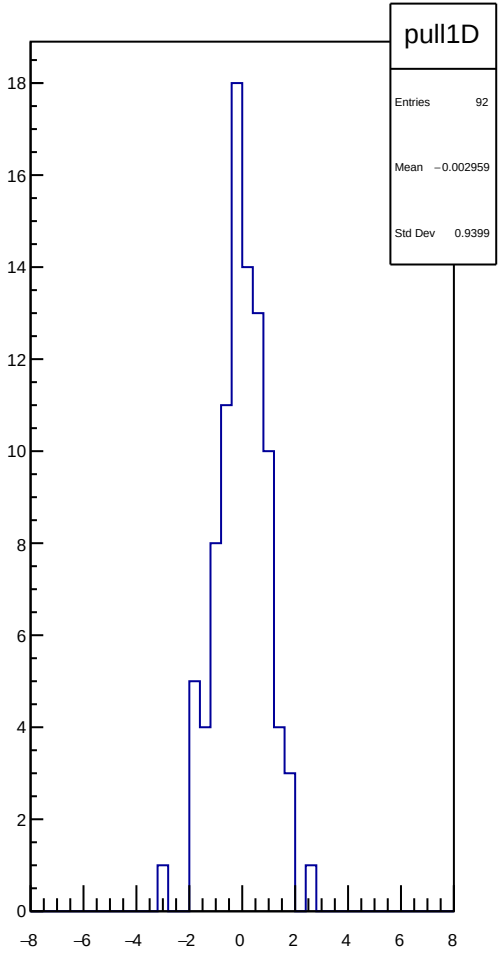

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 73.84 / 91
p0 −0.06797 ± 0.007189
pull
Entries 92
Mean −123.5
Std Dev 0
pull1D
Entries 92
Mean 0.04263
Std Dev 0.8949

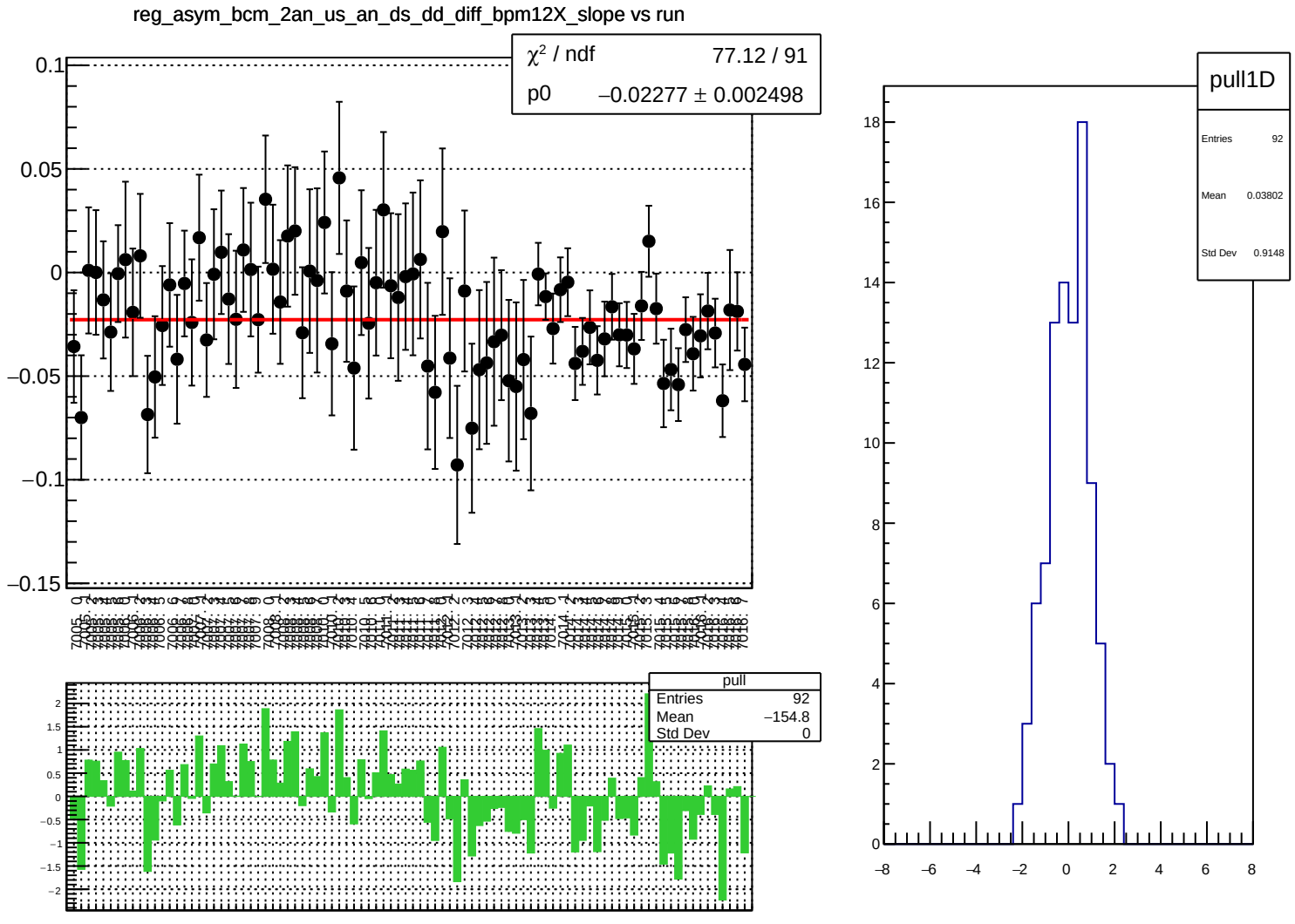

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 157.8 / 91
p0 0.02997 ± 0.07719
pull
Entries 92
Mean 5.405
Std Dev 0
pull1D
Entries 92
Mean 0.2592
Std Dev 1.284

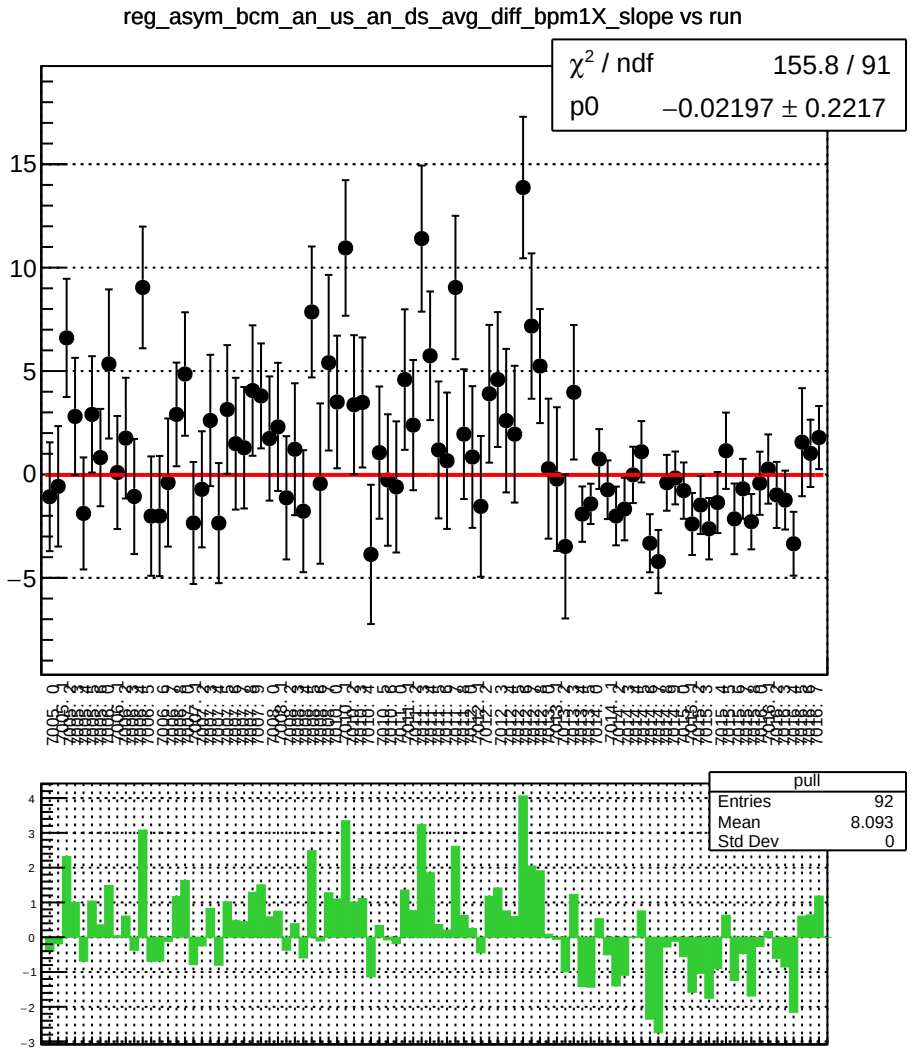

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 102.6 / 91
p0 0.3102 ± 0.05182
pull
Entries 92
Mean 12
Std Dev 0
pull1D
Entries 92
Mean 0.1799
Std Dev 1.041

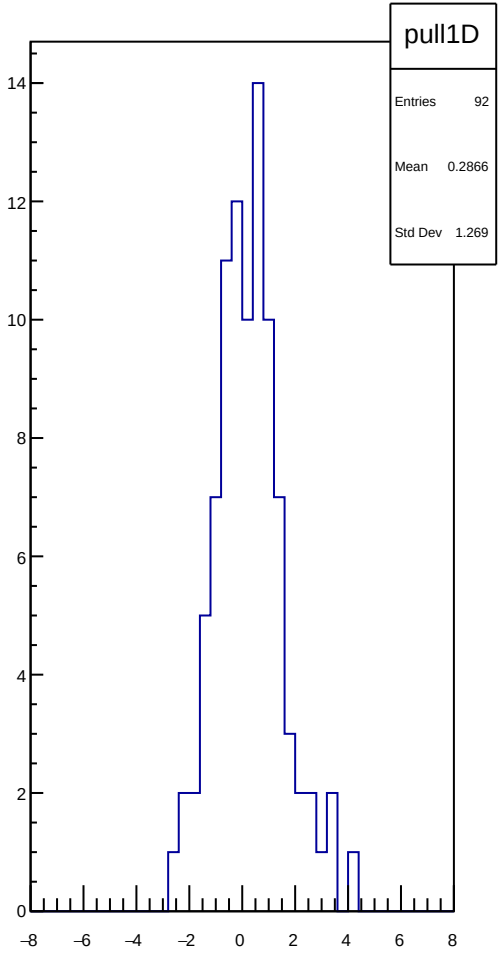

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 184 / 91
p0 −0.2431± 0.07153
pull
Entries 92
Mean 3.157
Std Dev 0
pull1D
Entries 92
Mean −0.3162
Std Dev 1.378

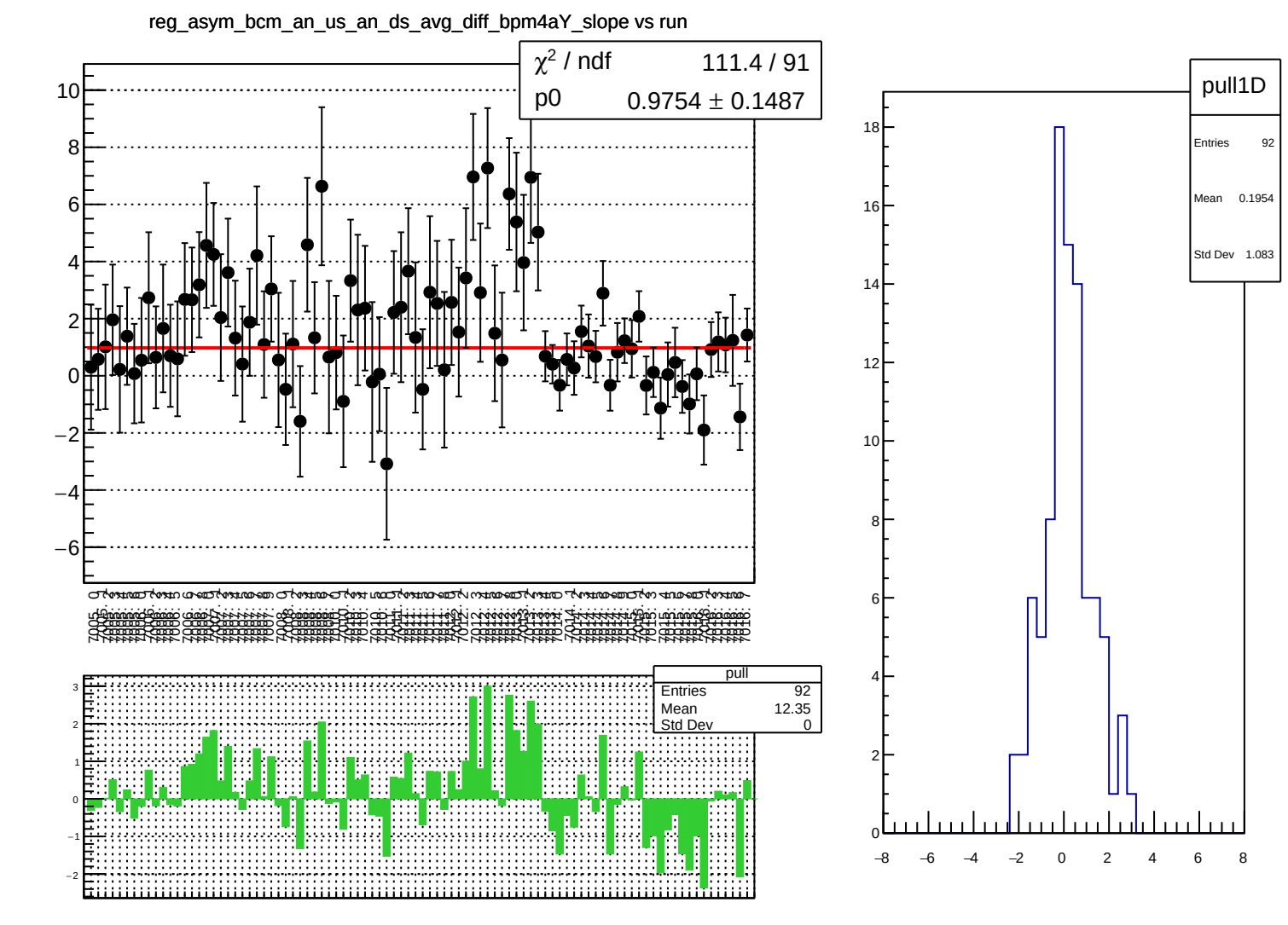

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.28 / 91
p0 −0.3344 ± 0.05484
pull
Entries 92
Mean 848.8
Std Dev 0

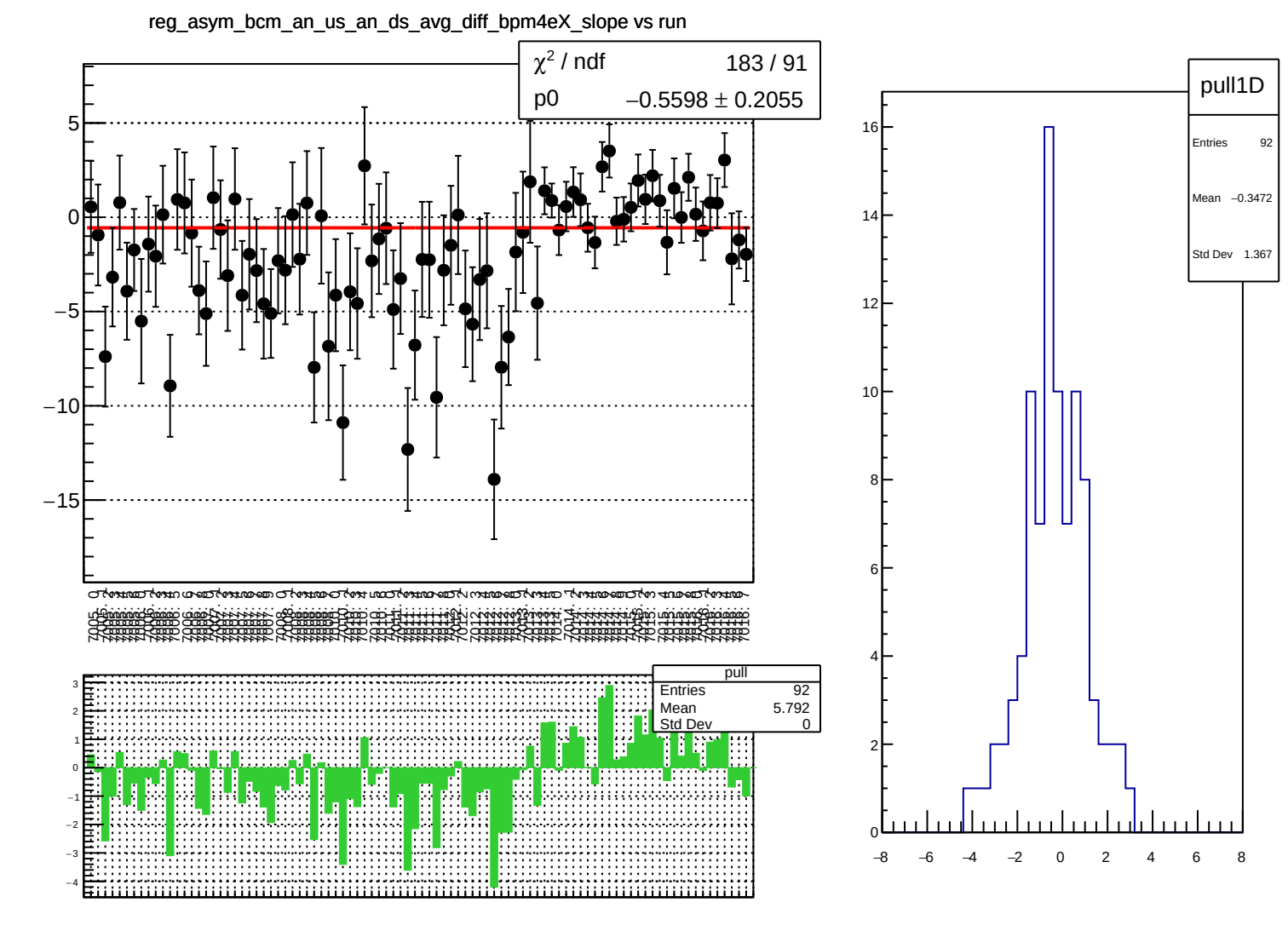

pull1D
Entries 92
Mean −0.002959
Std Dev 0.9399

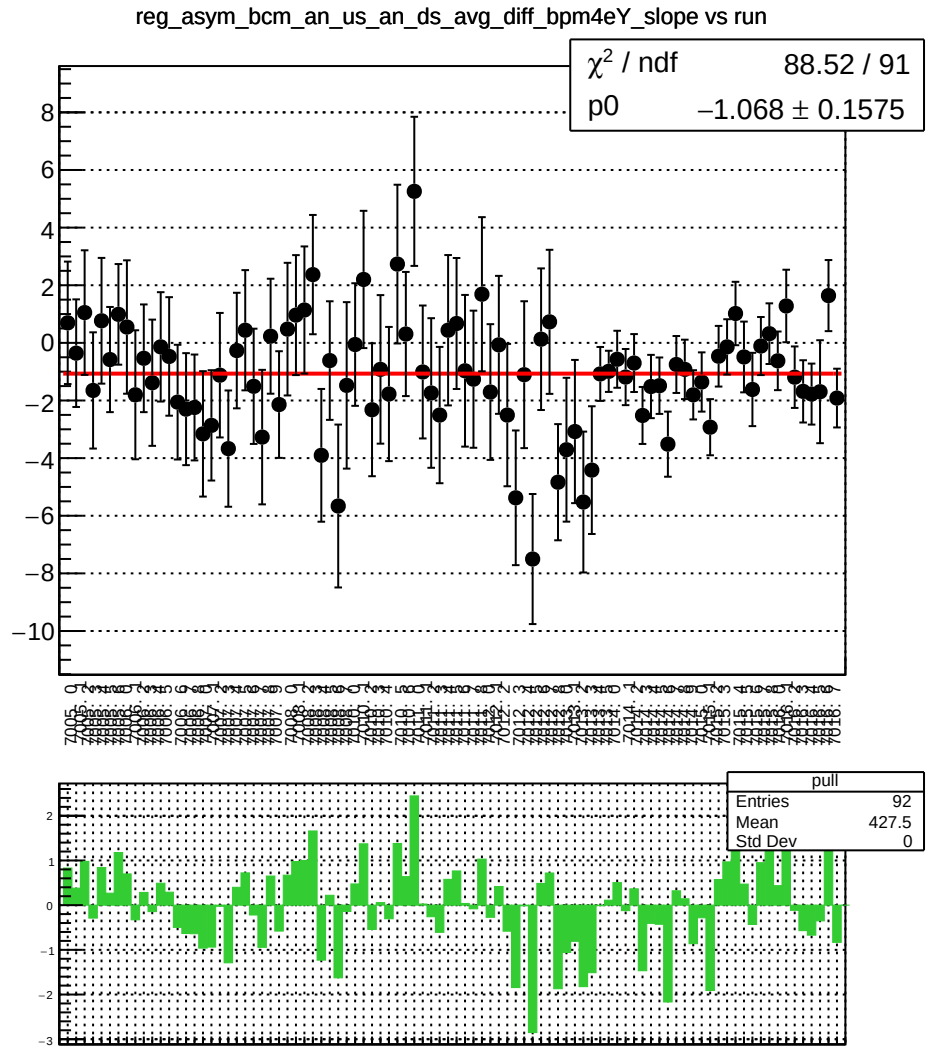

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 77.12 / 91
p0 −0.02277 ± 0.002498
pull
Entries 92
Mean −154.8
Std Dev 0
pull1D
Entries 92
Mean 0.03802
Std Dev 0.9148

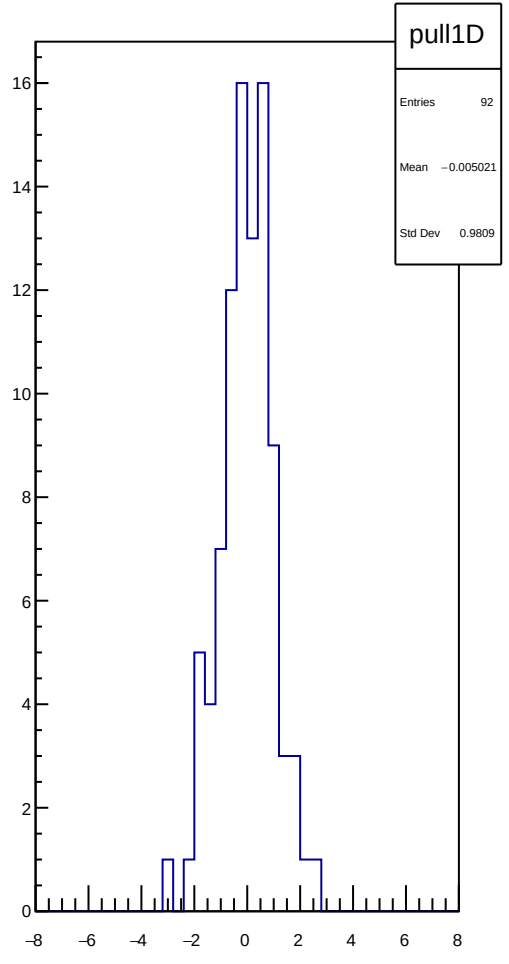

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 155.8 / 91
p0 −0.02197 ± 0.2217
pull
Entries 92
Mean 8.093
Std Dev 0

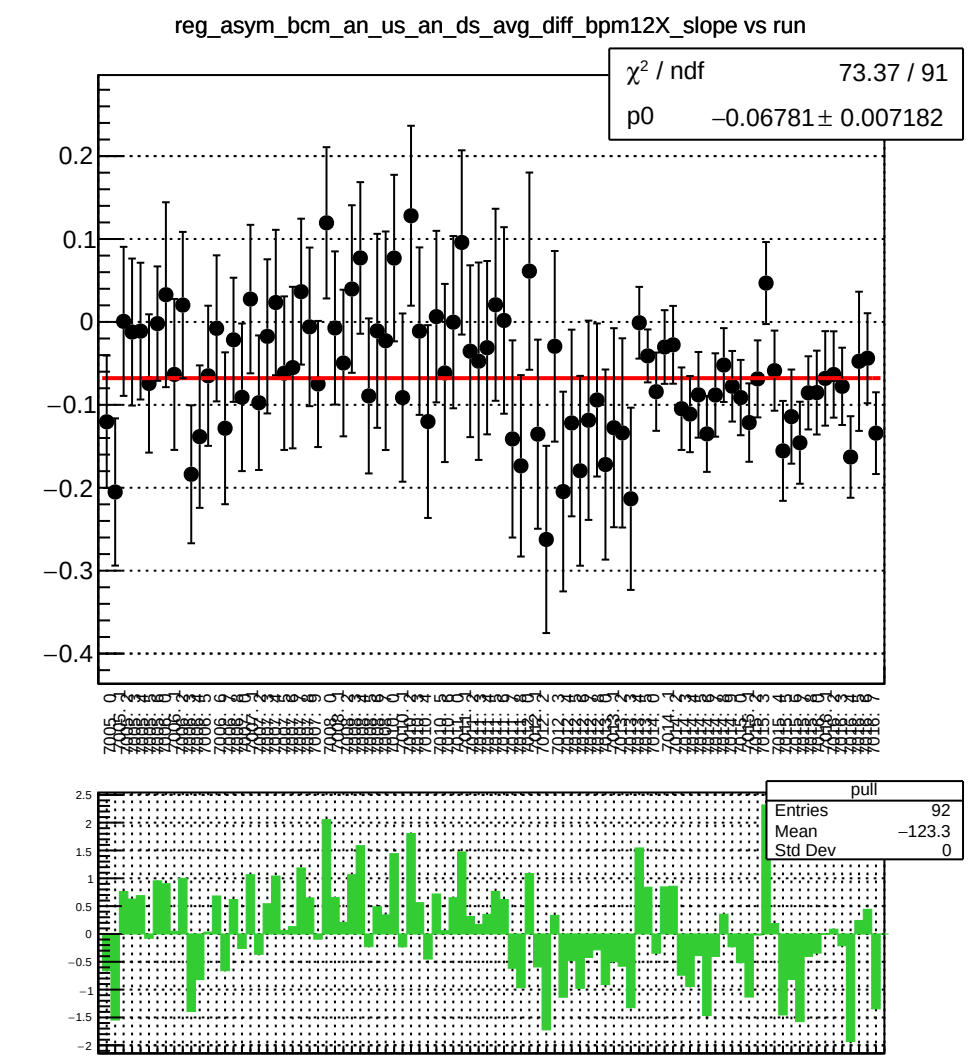

pull1D
Entries 92
Mean 0.2866
Std Dev 1.269

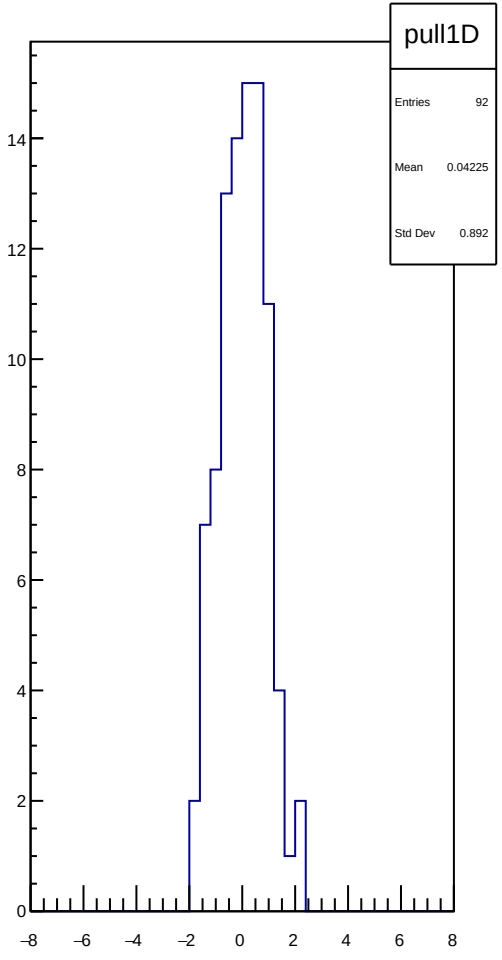

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 111.4 / 91
p0 0.9754 ± 0.1487
pull
Entries 92
Mean 12.35
Std Dev 0
pull1D
Entries 92
Mean 0.1954
Std Dev 1.083

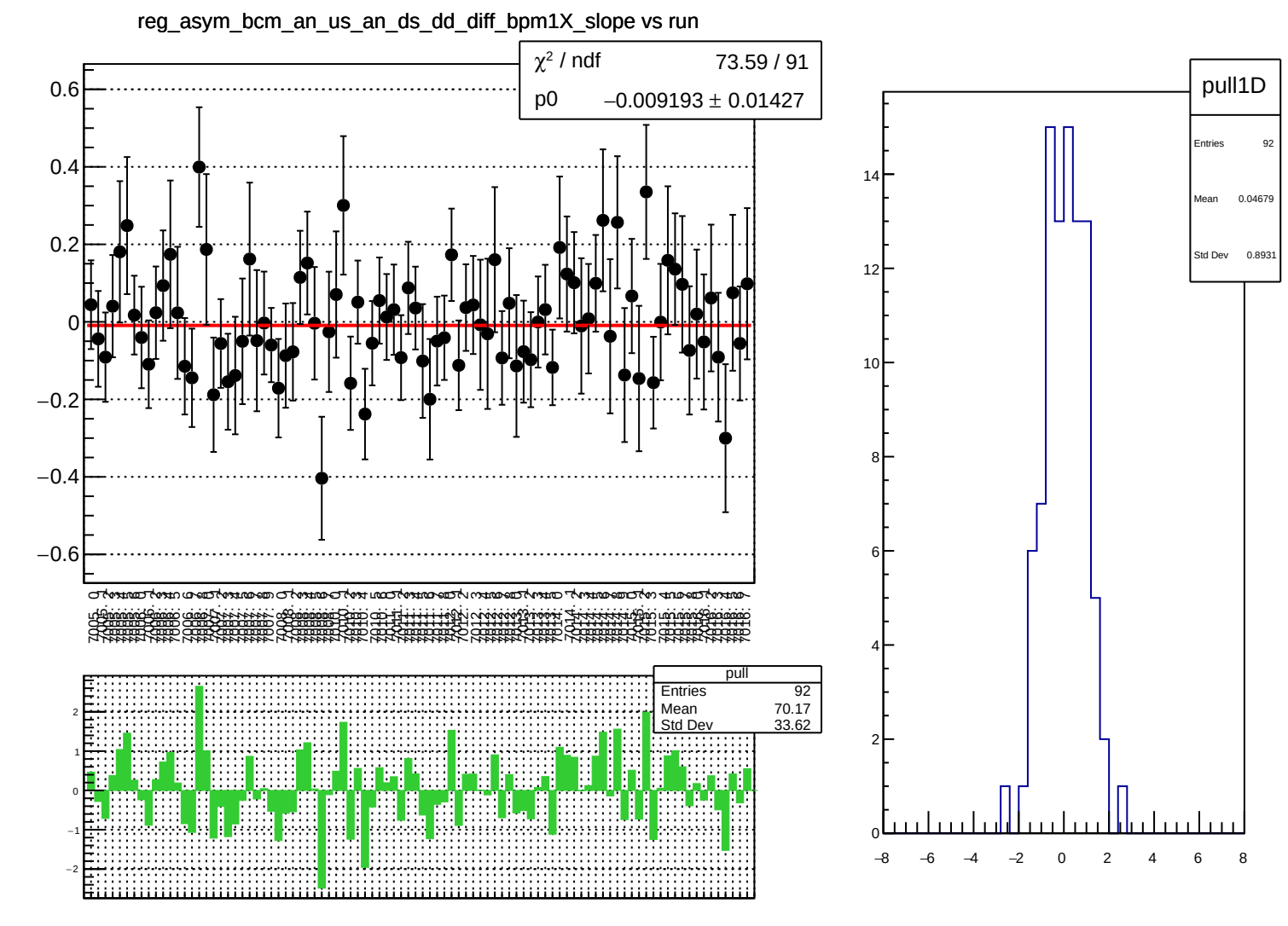

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 183 / 91
p0 −0.5598 ± 0.2055
pull
Entries 92
Mean 5.792
Std Dev 0
pull1D
Entries 92
Mean −0.3472
Std Dev 1.367

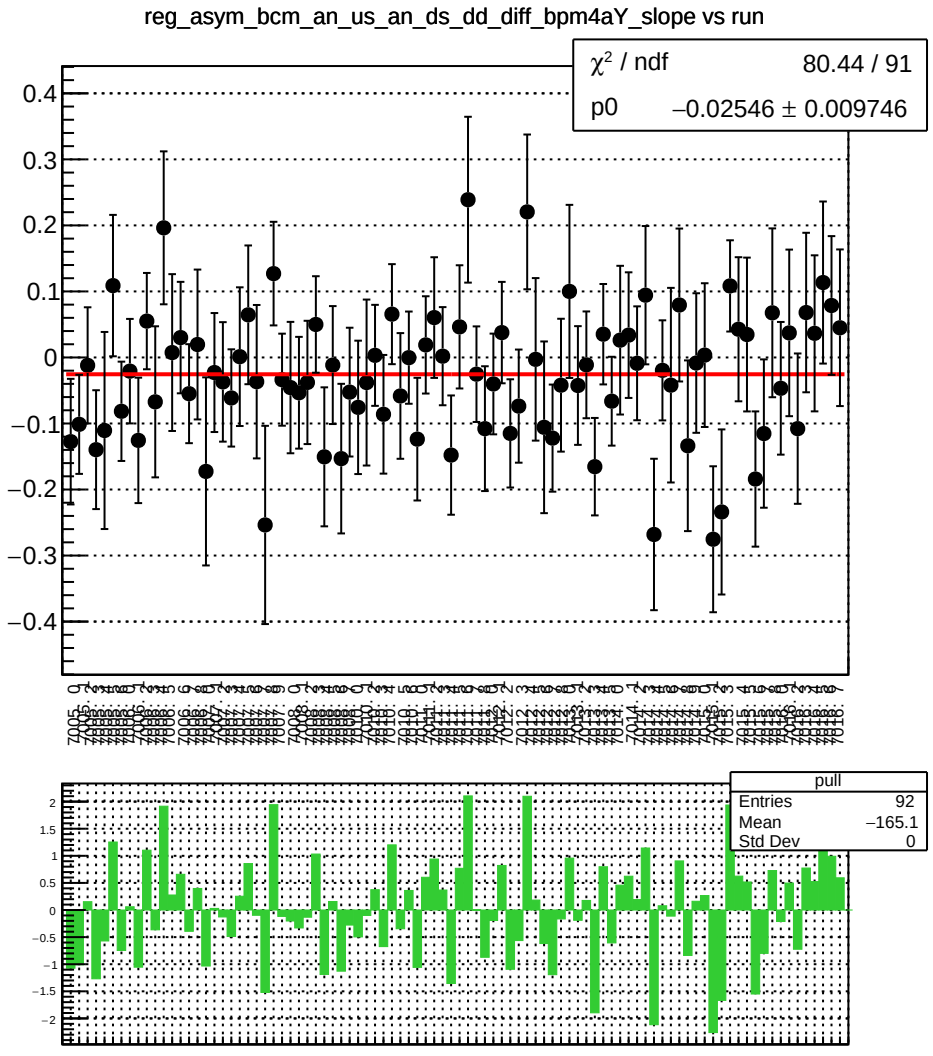

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.52 / 91
p0 −1.068 ± 0.1575
pull
Entries 92
Mean 427.5
Std Dev 0

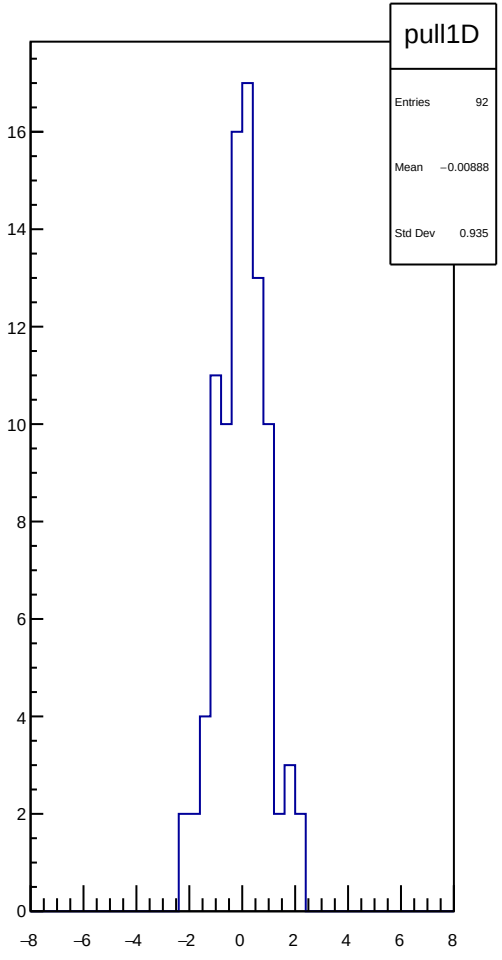

pull1D
Entries 92
Mean −0.005021
Std Dev 0.9809

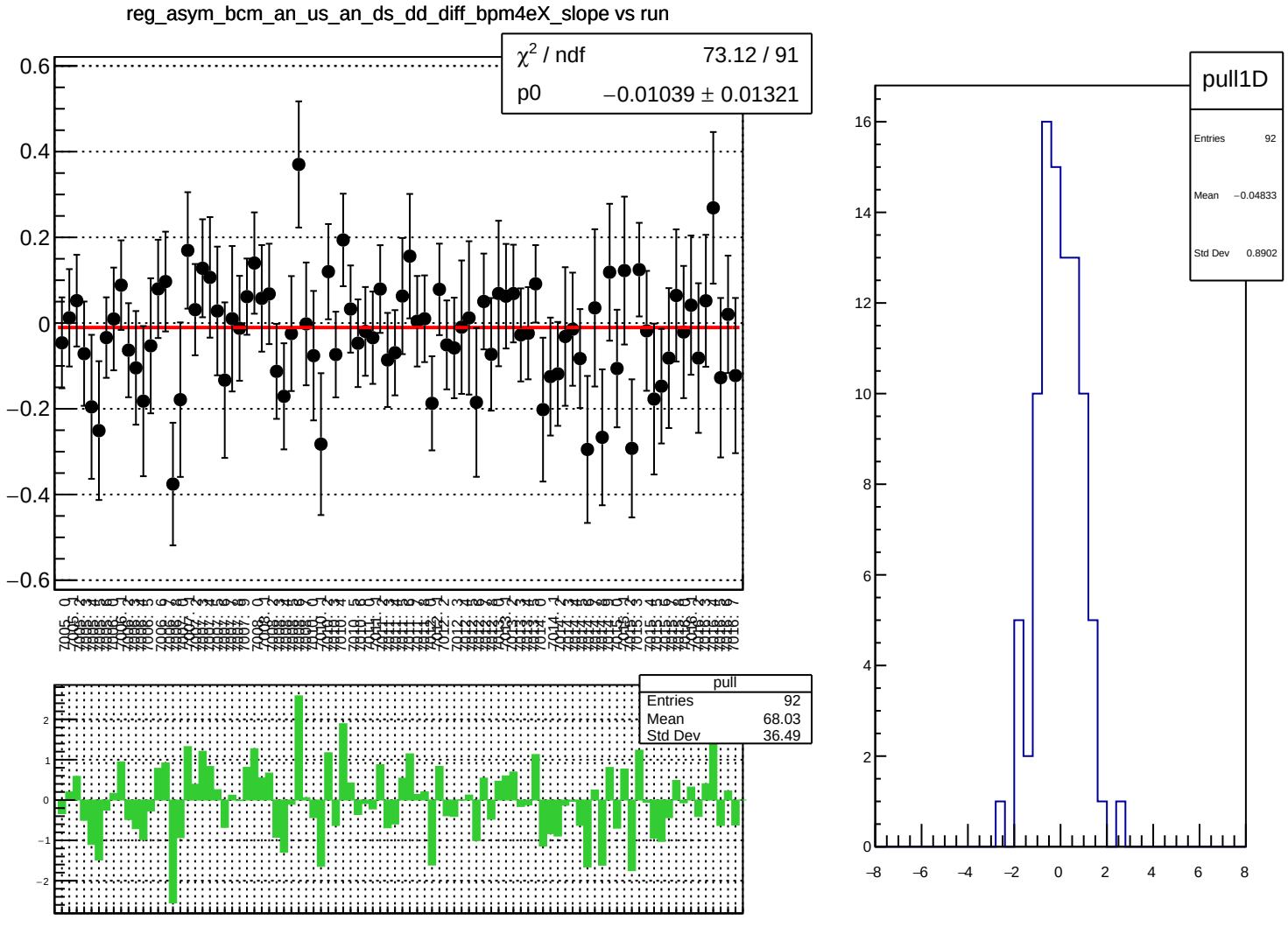

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 73.37 / 91
p0 −0.06781 ± 0.007182
pull
Entries 92
Mean −123.3
Std Dev 0

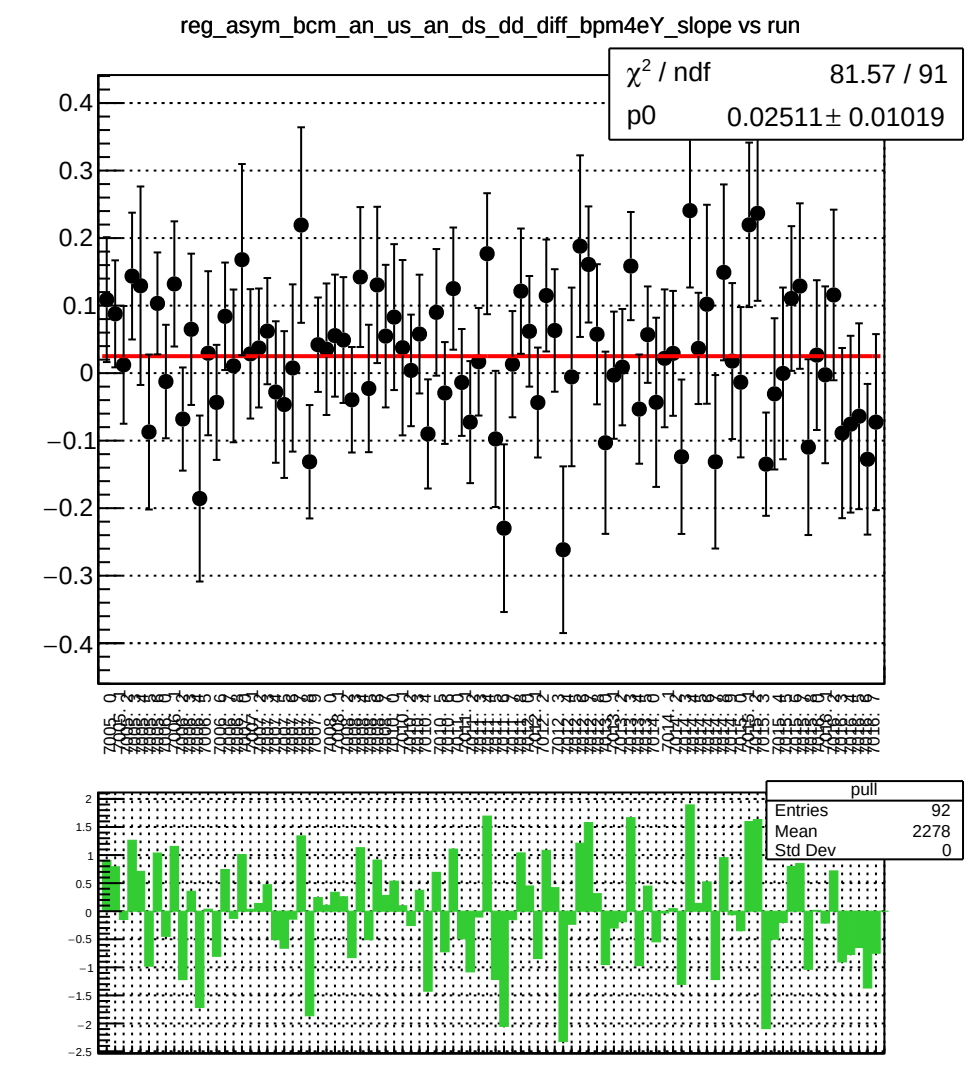

pull1D
Entries 92
Mean 0.04225
Std Dev 0.892

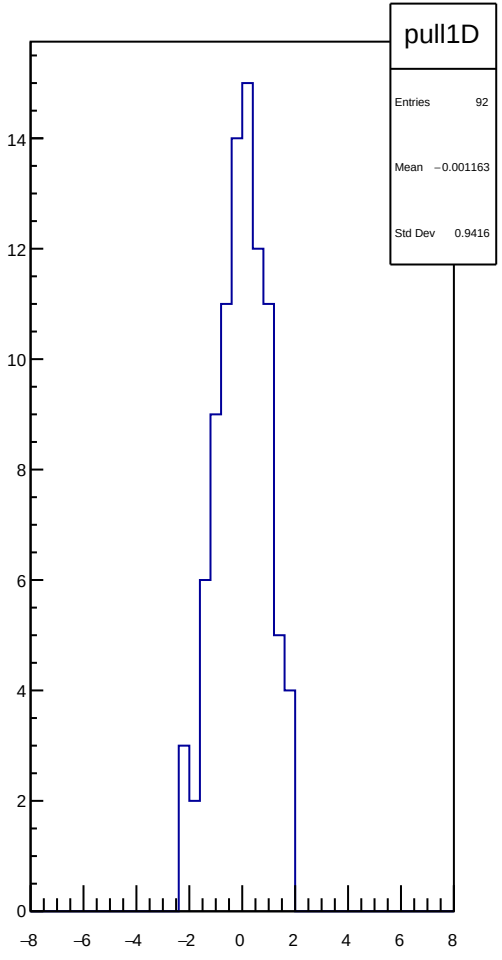

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 73.59 / 91
p0 −0.009193 ± 0.01427
pull
Entries 92
Mean 70.17
Std Dev 33.62
pull1D
Entries 92
Mean 0.04679
Std Dev 0.8931

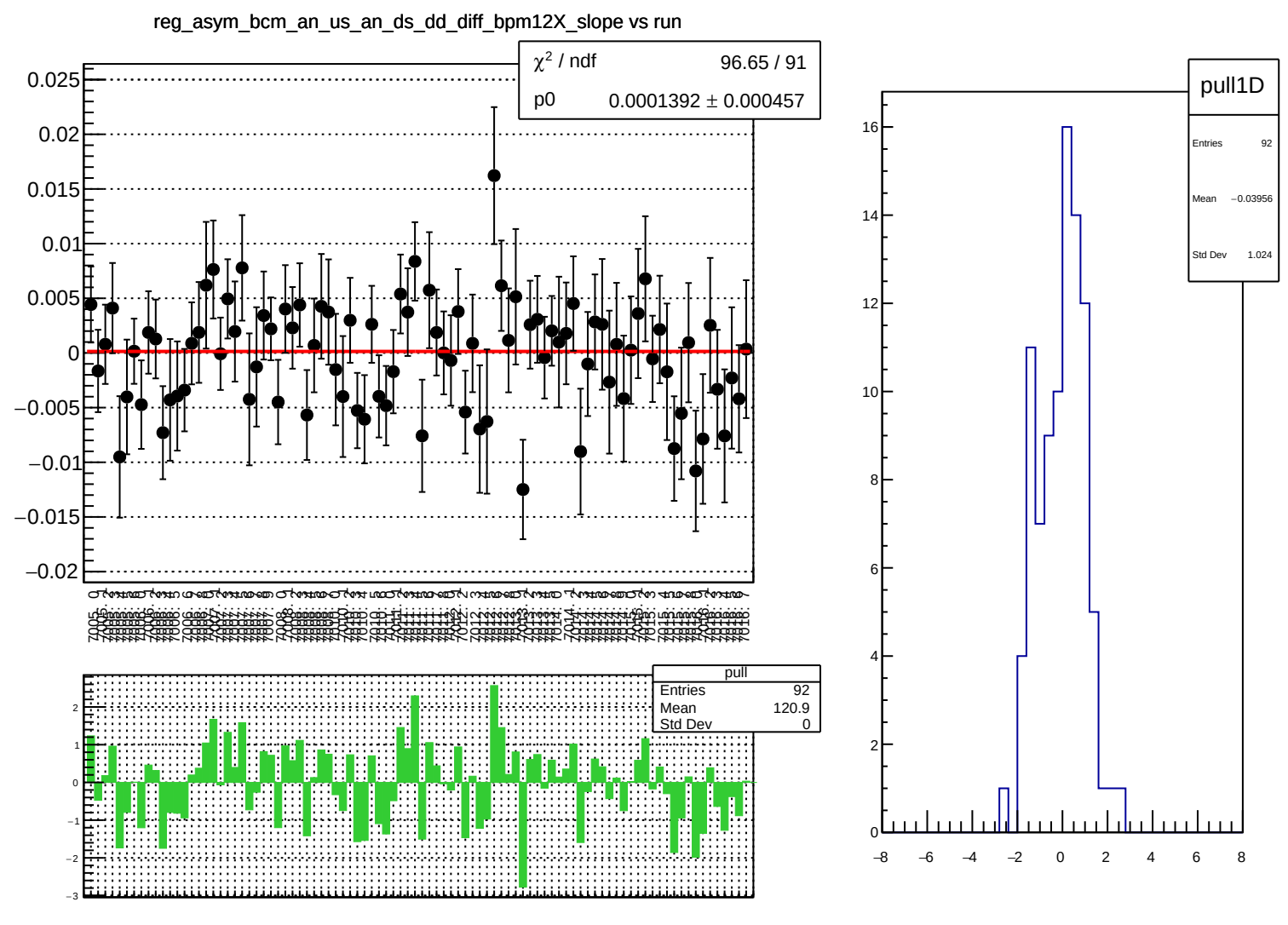

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.44 / 91
p0 −0.02546 ± 0.009746
pull
Entries 92
Mean −165.1
Std Dev 0

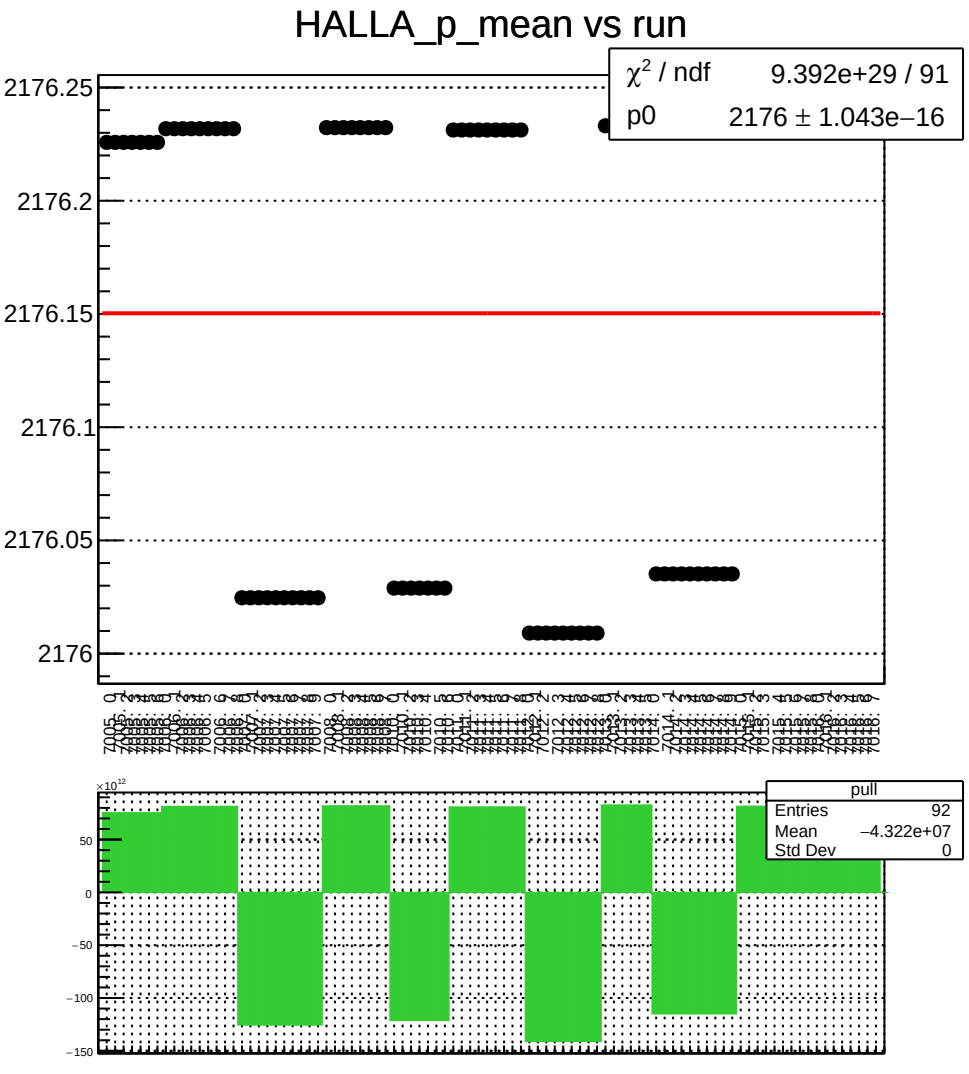

pull1D
Entries 92
Mean −0.00888
Std Dev 0.935

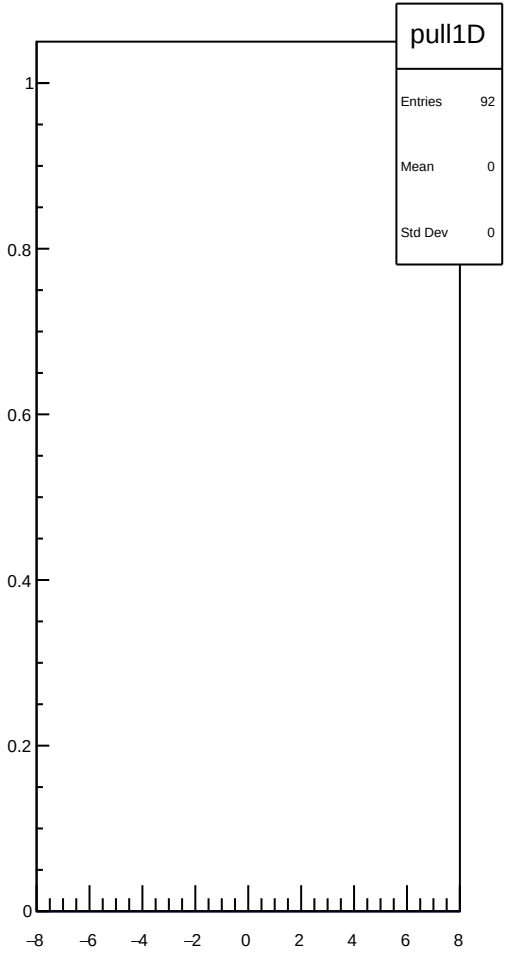

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.12 / 91
p0 −0.01039 ± 0.01321
pull
Entries 92
Mean 68.03
Std Dev 36.49
pull1D
Entries 92
Mean −0.04833
Std Dev 0.8902

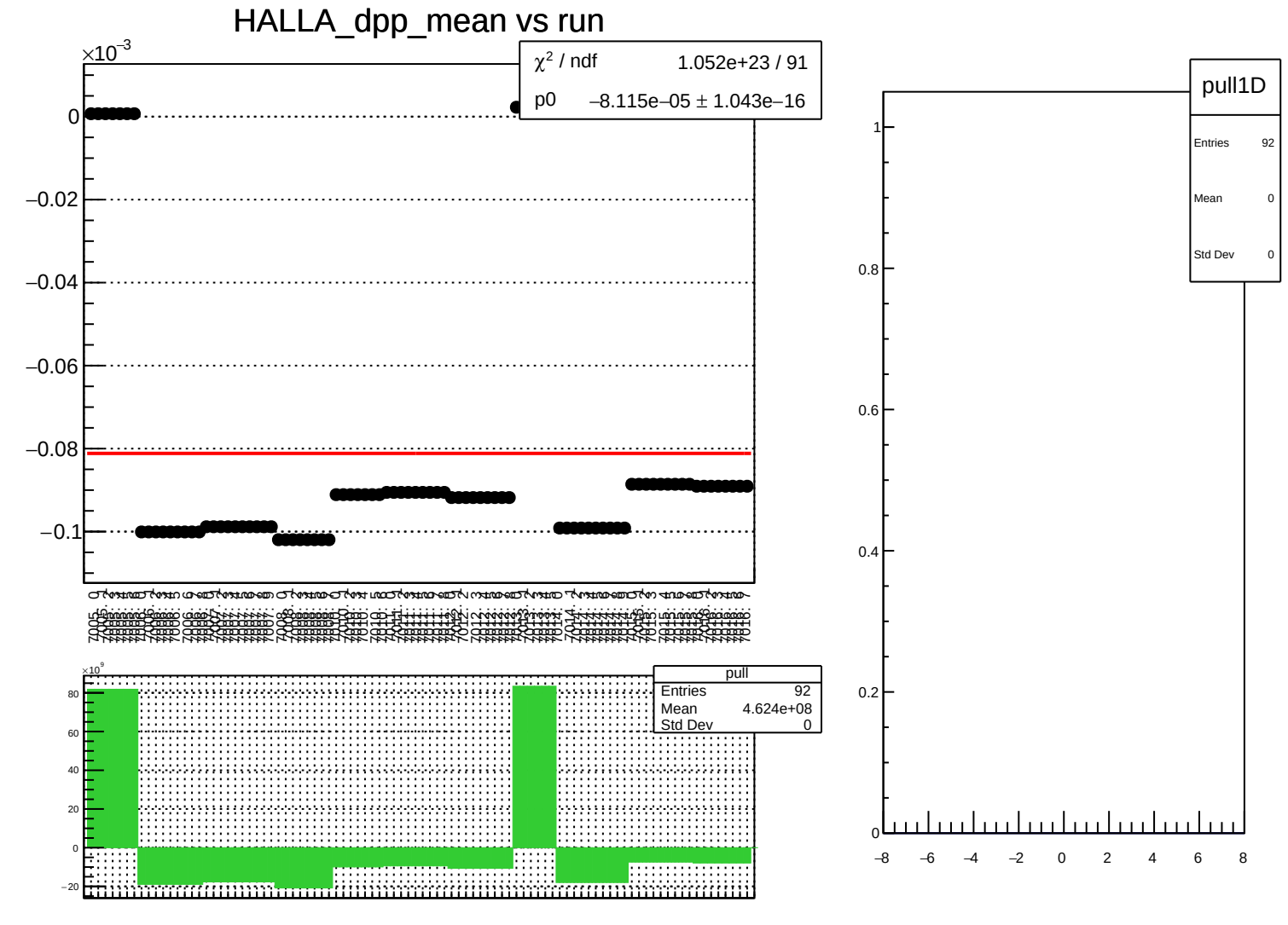

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.57 / 91
p0 0.02511 ± 0.01019
pull
Entries 92
Mean 2278
Std Dev 0

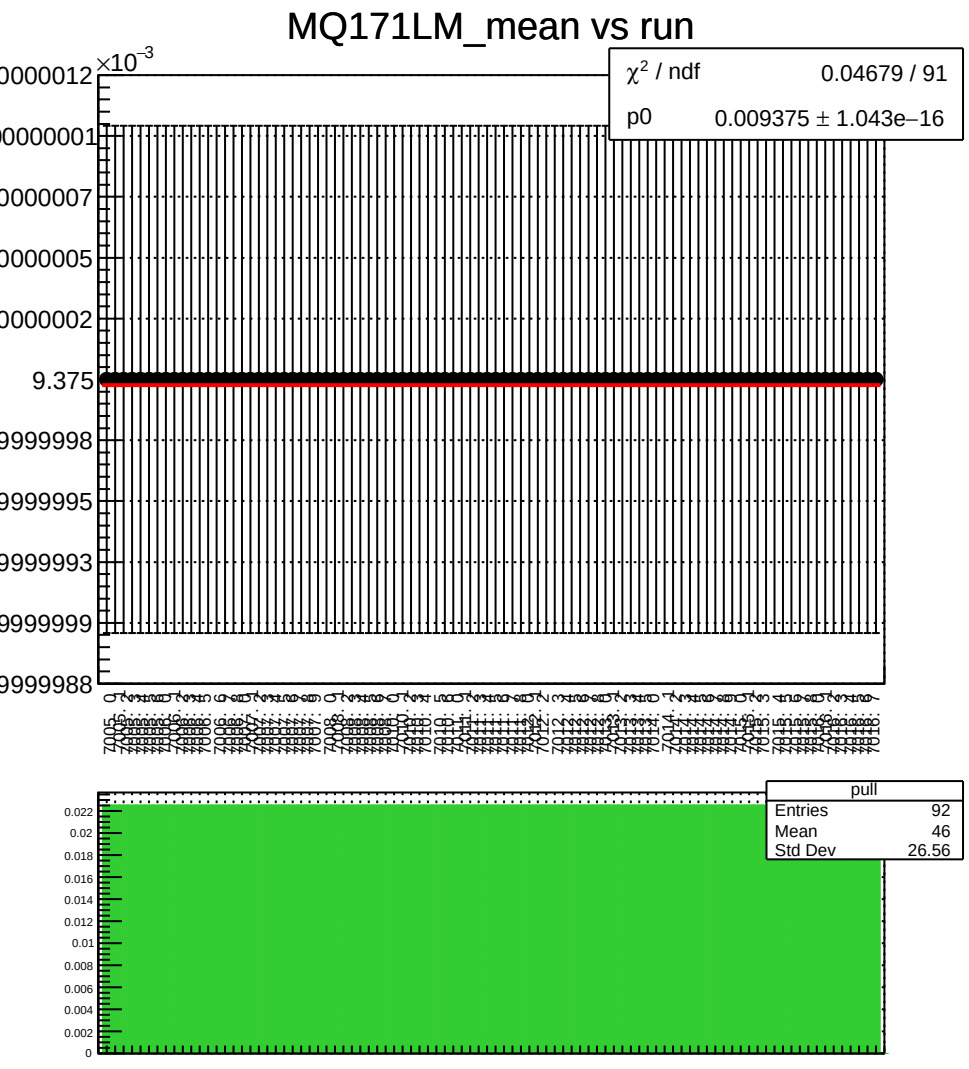

pull1D
Entries 92
Mean −0.001163
Std Dev 0.9416

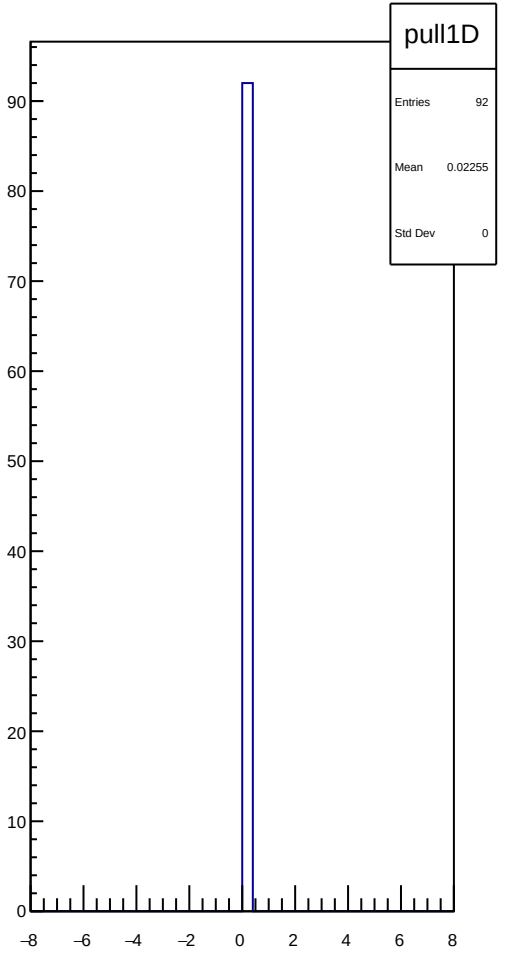

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 96.65 / 91
p0 0.0001392 ± 0.000457
pull
Entries 92
Mean 120.9
Std Dev 0
pull1D
Entries 92
Mean −0.03956
Std Dev 1.024

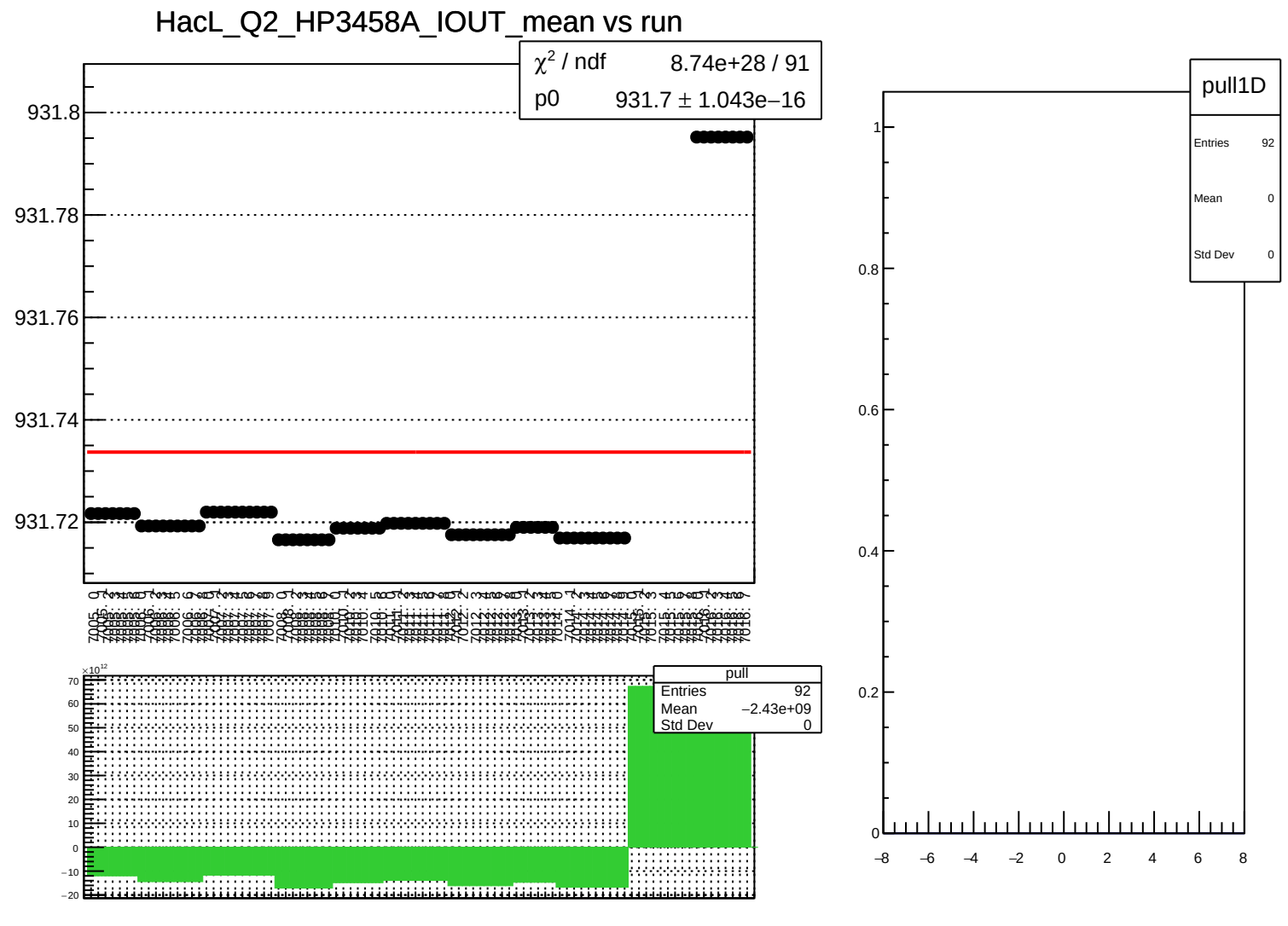

HALLA_p_mean vs run
χ² / ndf 9.392e+29 / 91
p0 2176 ± 1.043e−16
2176.25
2176.2
2176.15
2176.1
2176.05
2176
pull
Entries 92
Mean −4.322e+07
Std Dev 0
×10¹²
50
0
−50
−100
−150

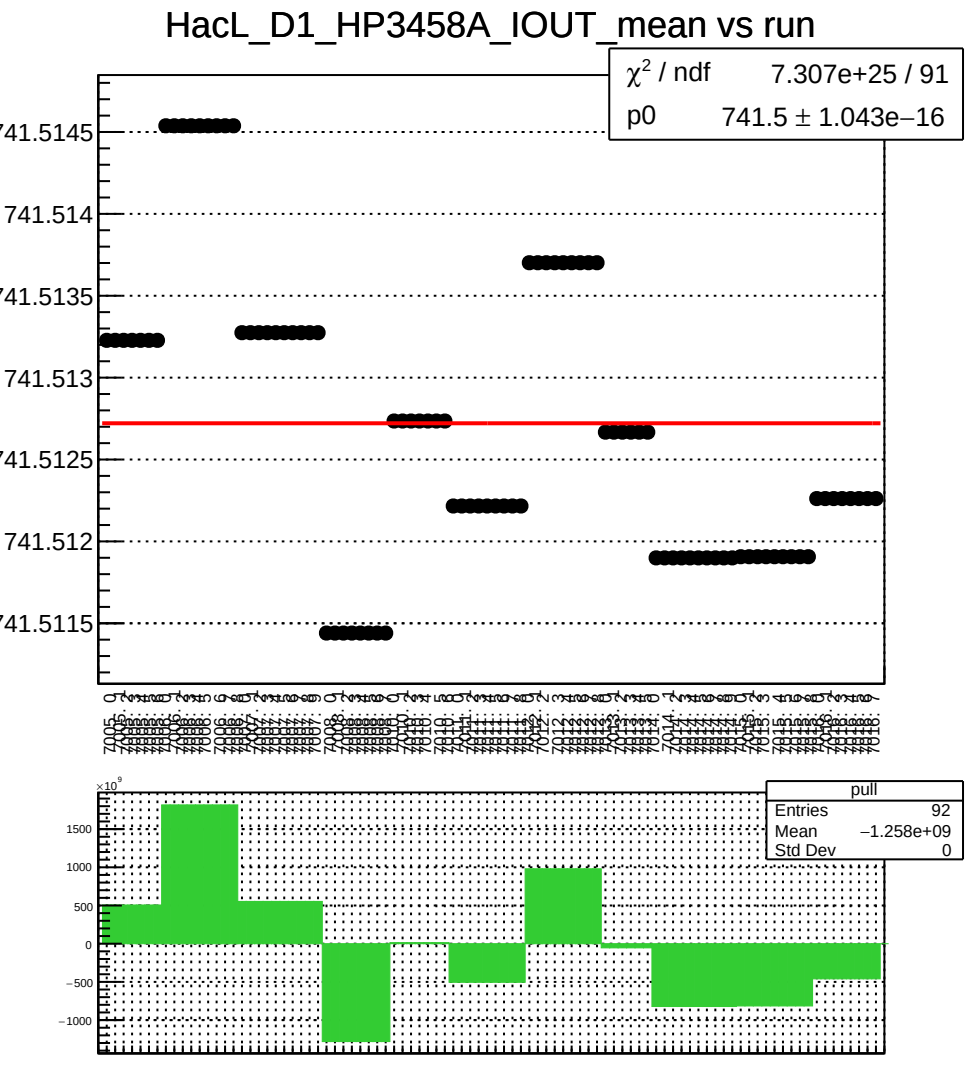

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

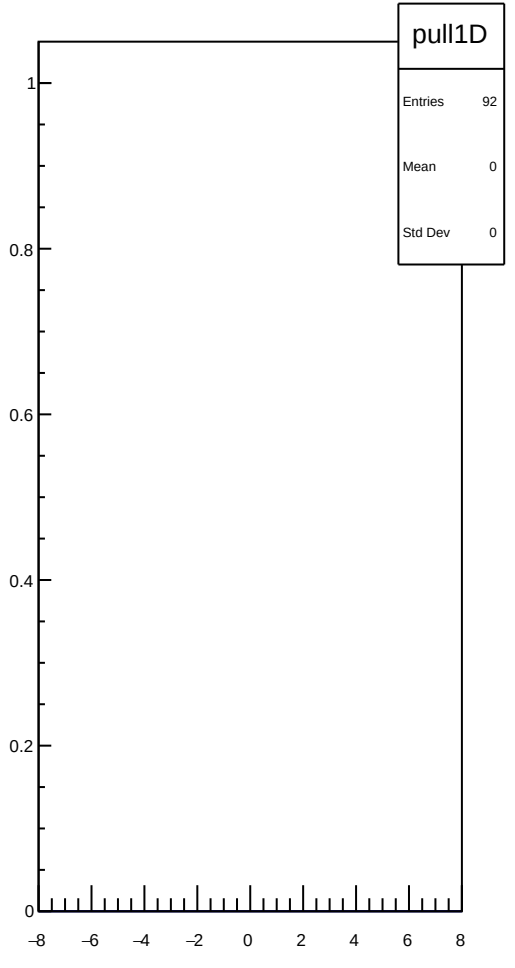

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.052e+23 / 91
p0 −8.115e−05 ± 1.043e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
80
60
40
20
0
−20
pull
Entries 92
Mean 4.624e+08
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

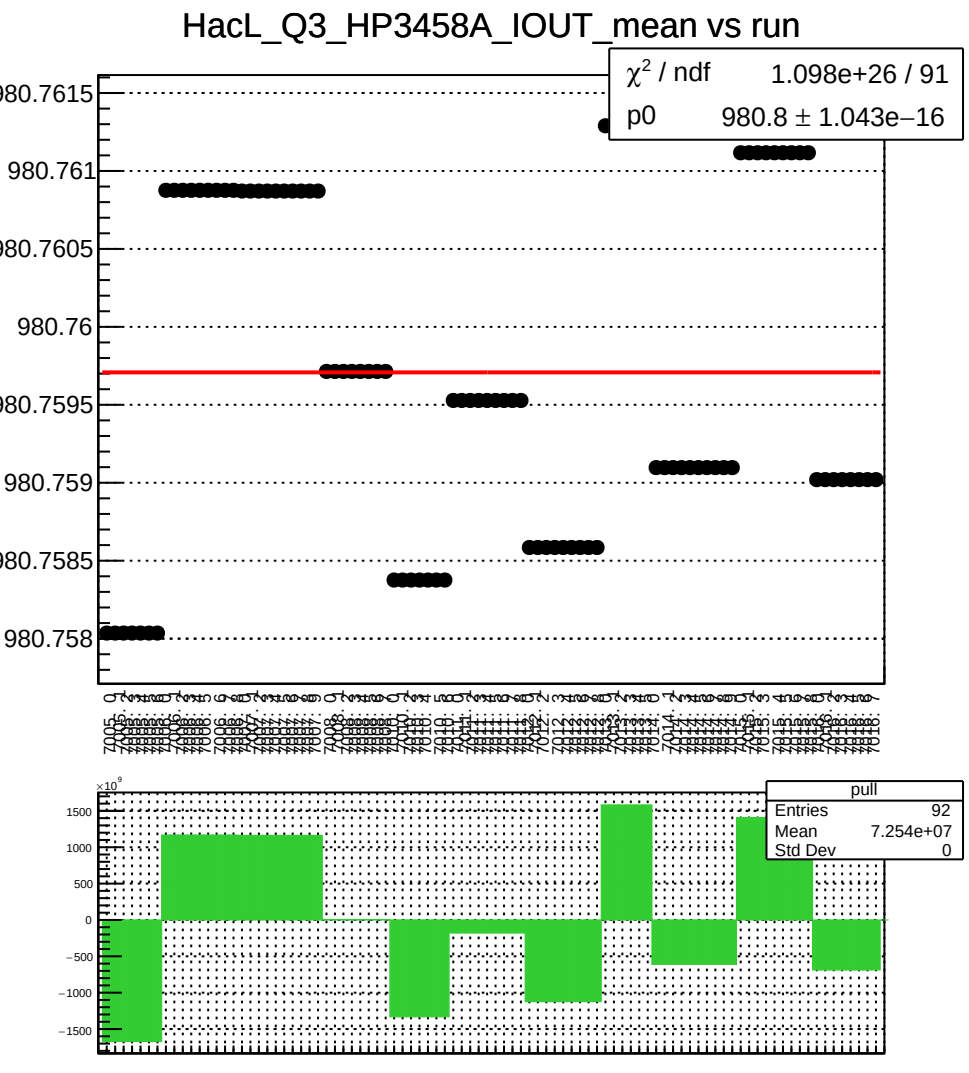

MQ171LM_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56

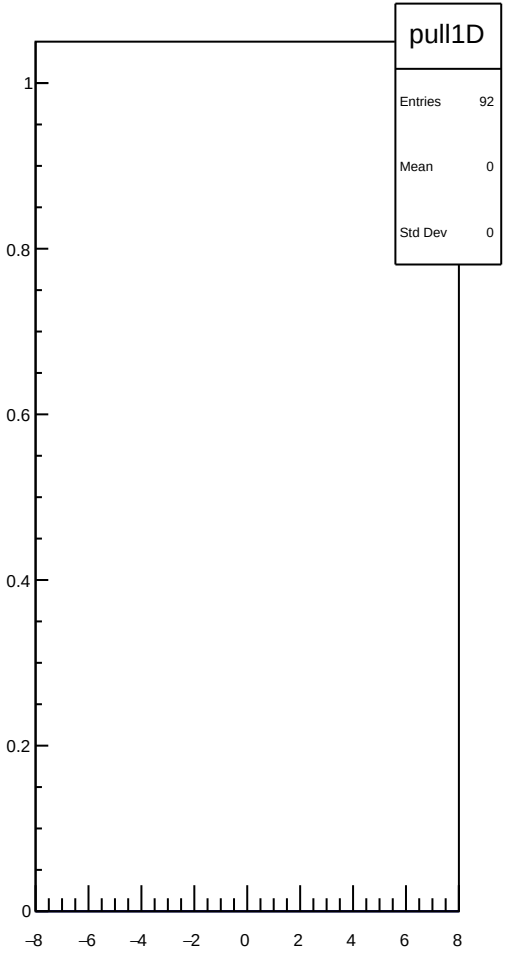

pull1D
Entries 92
Mean 0.02255
Std Dev 0

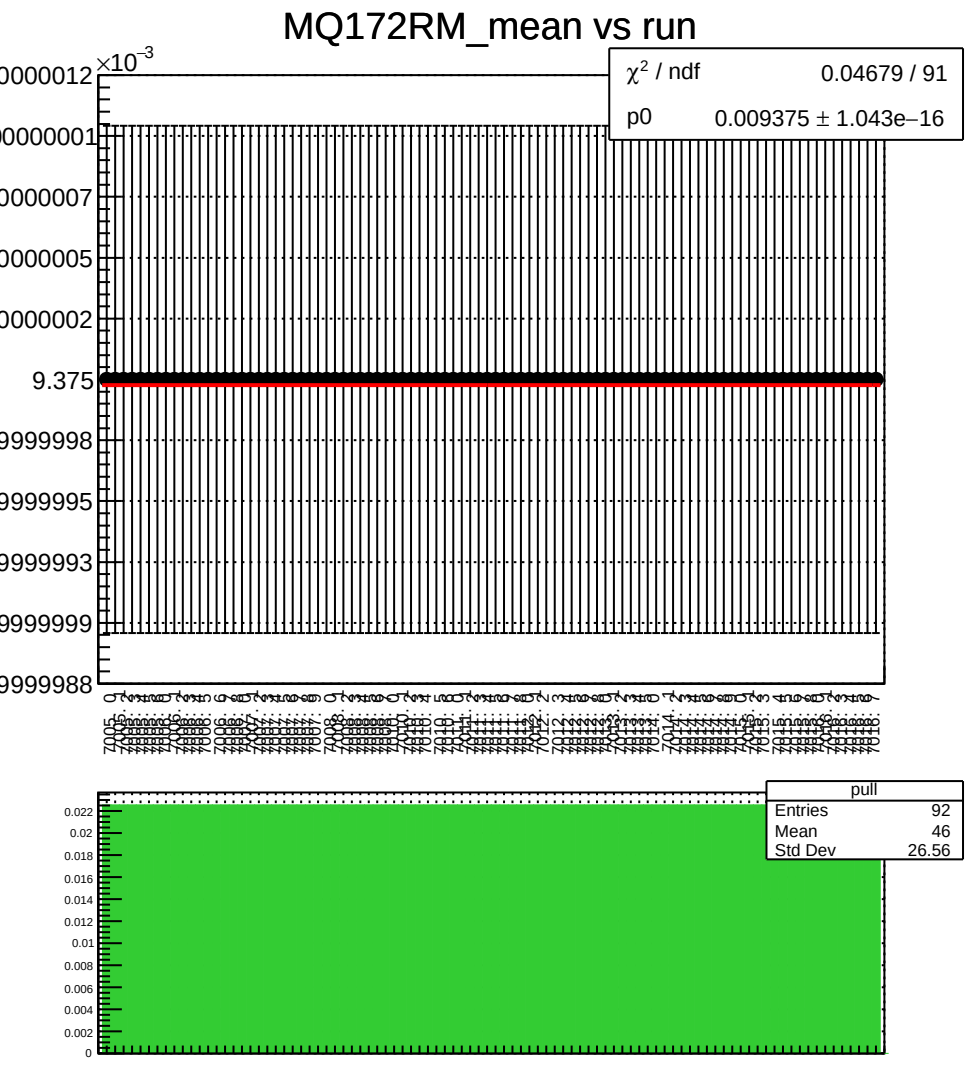

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.74e+28 / 91
p0 931.7 ± 1.043e−16
931.8
931.78
931.76
931.74
931.72
pull
Entries 92
Mean −2.43e+09
Std Dev 0
×10¹²
70
60
50
40
30
20
10
0
−10
−20
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

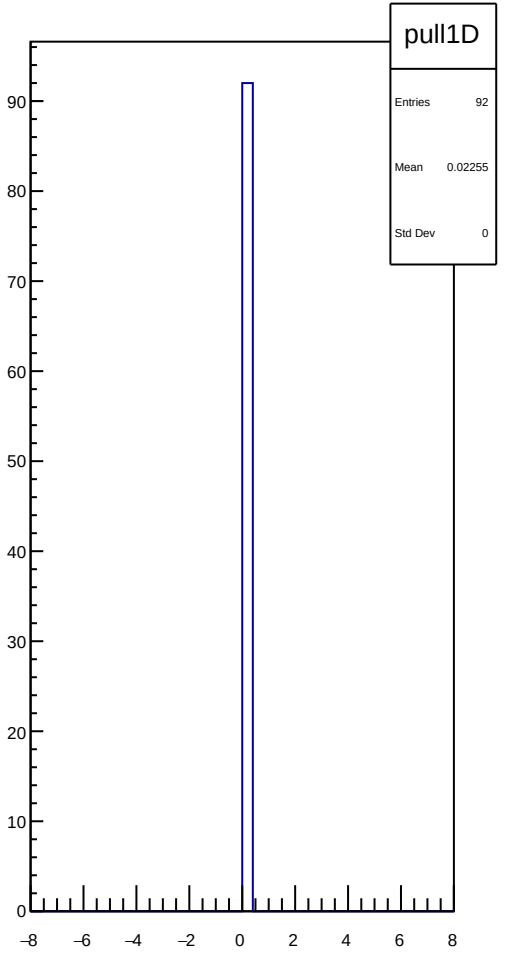

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.307e+25 / 91
p0 741.5 ± 1.043e−16
741.5145
741.514
741.5135
741.513
741.5125
741.512
741.5115
×10⁹
1500
1000
500
0
−500
−1000
pull
Entries 92
Mean −1.258e+09
Std Dev 0

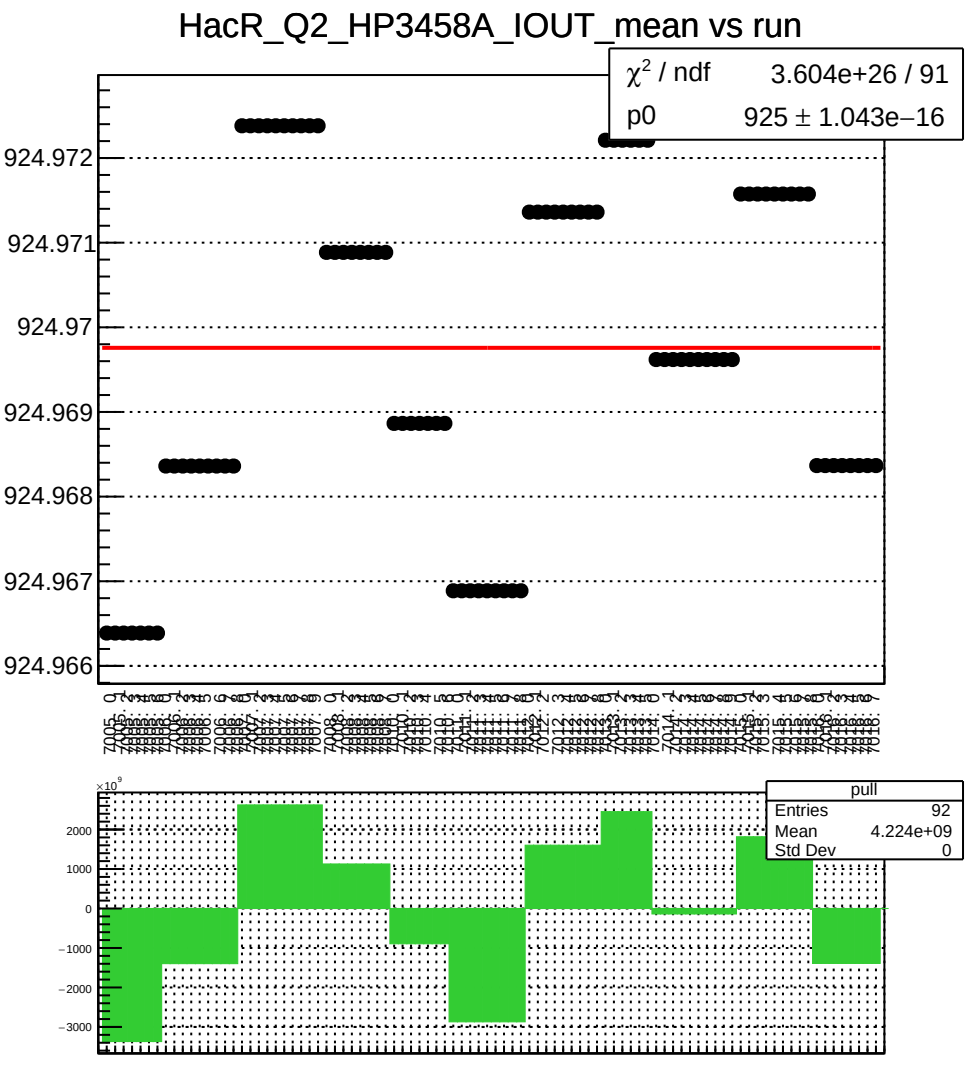

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

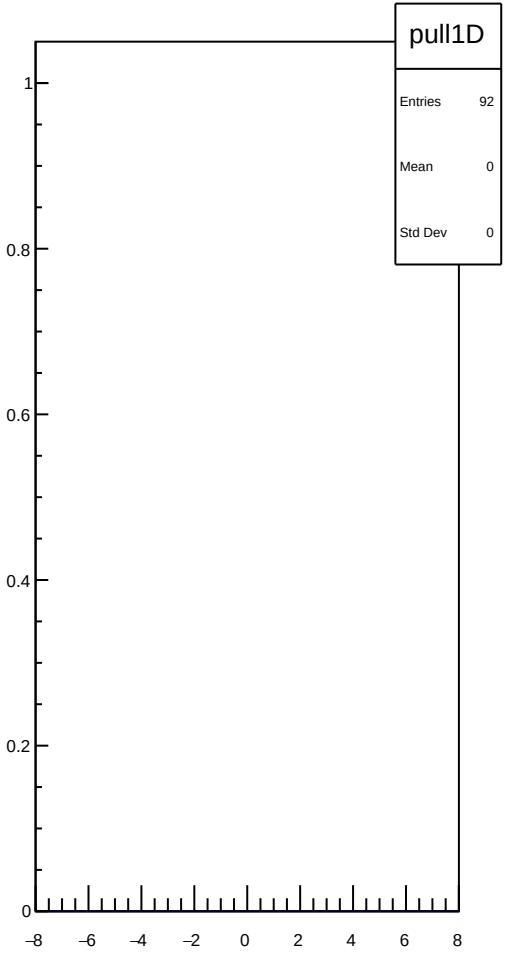

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.098e+26 / 91
p0 980.8 ± 1.043e−16
980.7615
980.761
980.7605
980.76
980.7595
980.759
980.7585
980.758
×10⁹
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean 7.254e+07
Std Dev 0

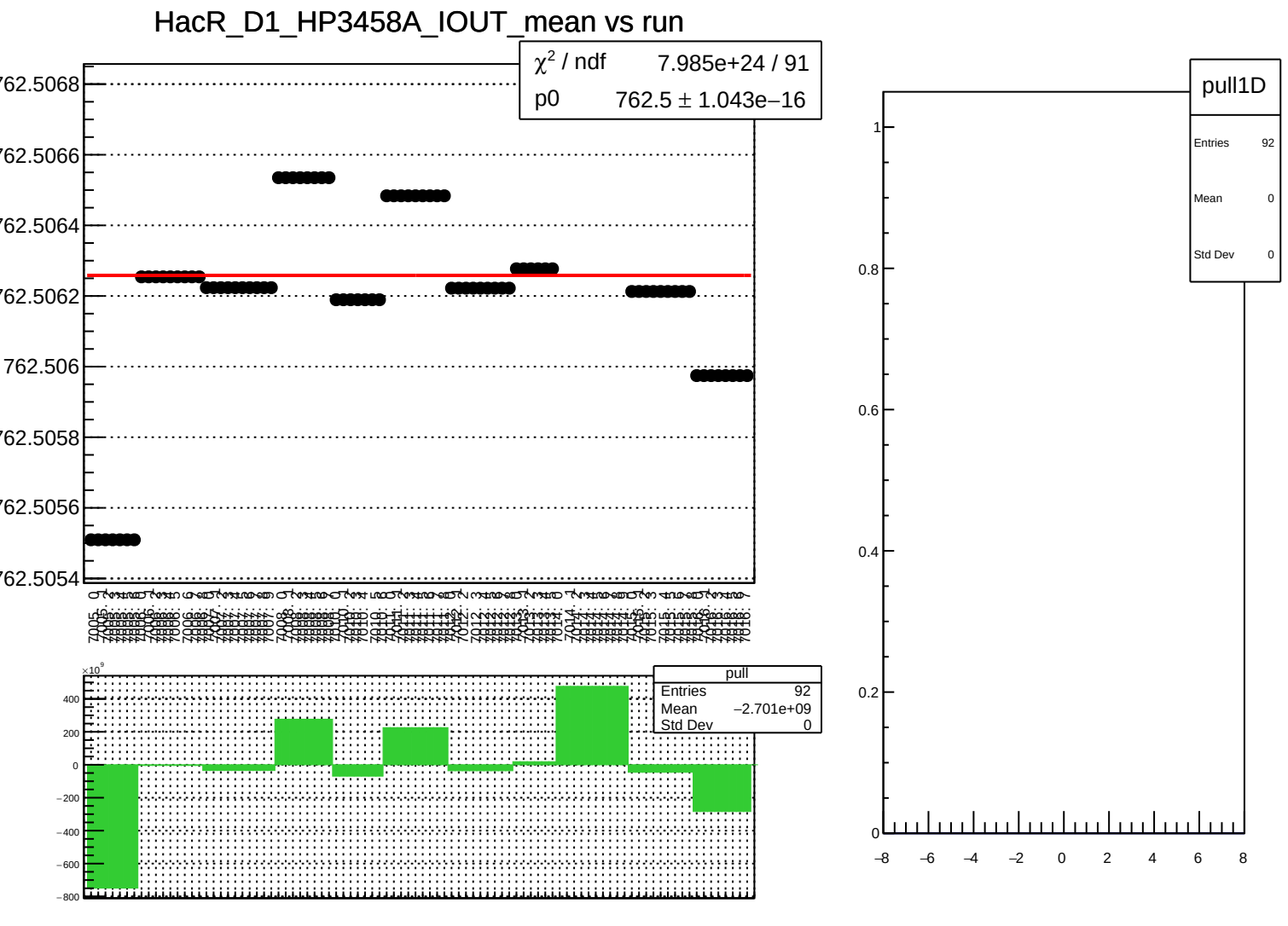

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

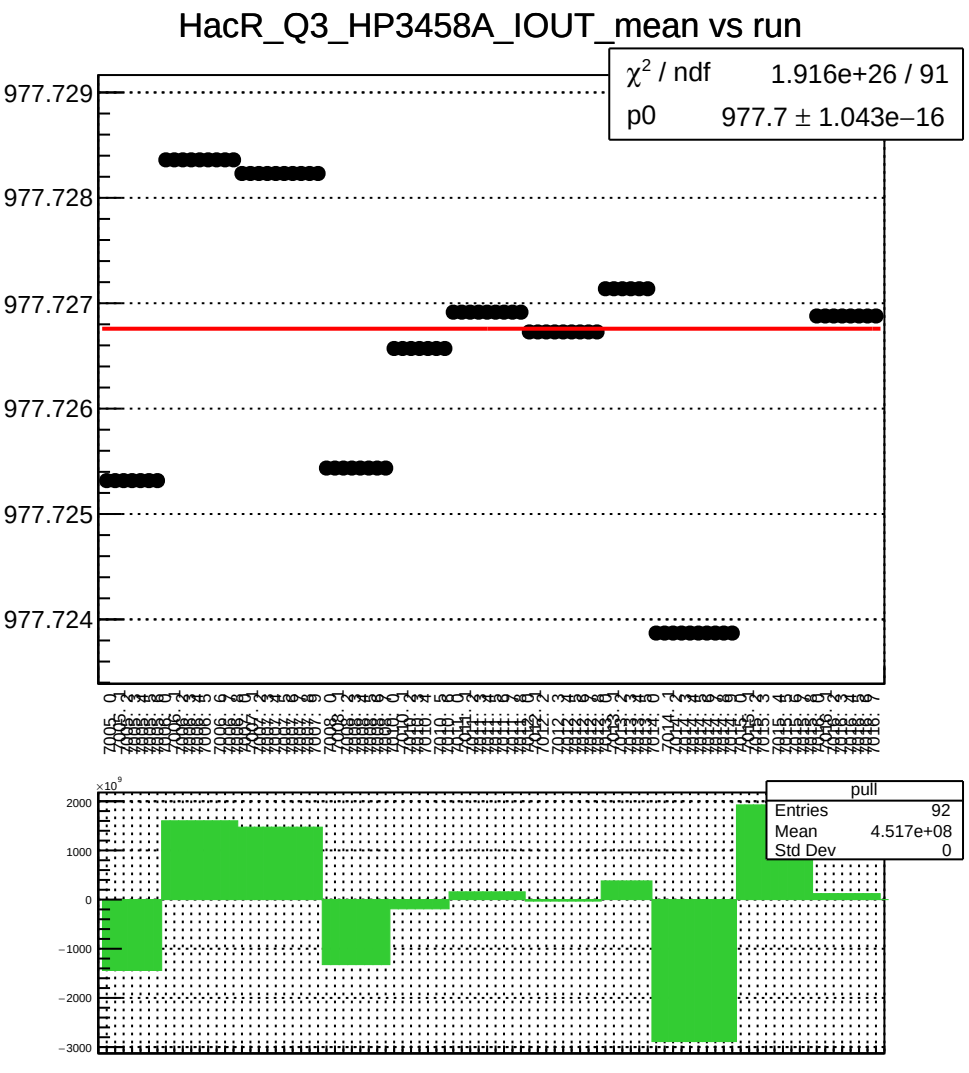

MQ172RM_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56

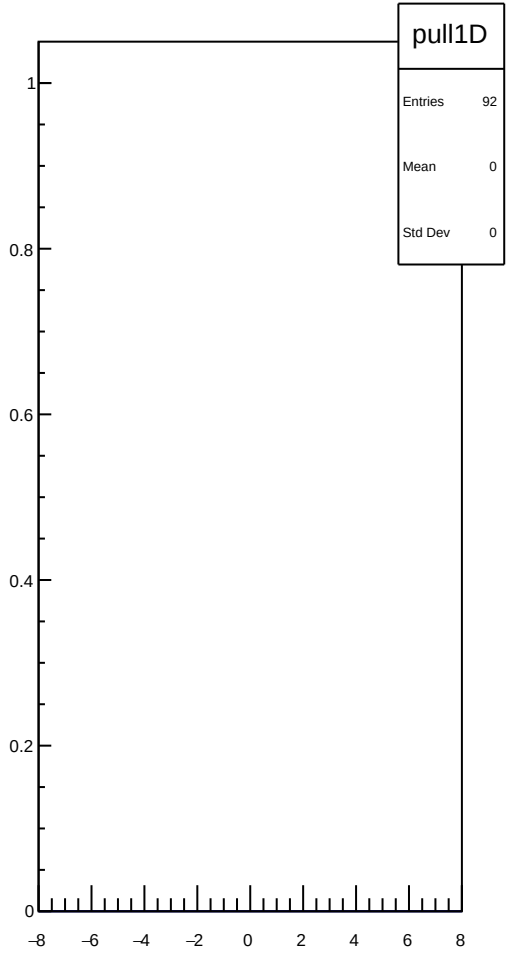

pull1D
Entries 92
Mean 0.02255
Std Dev 0

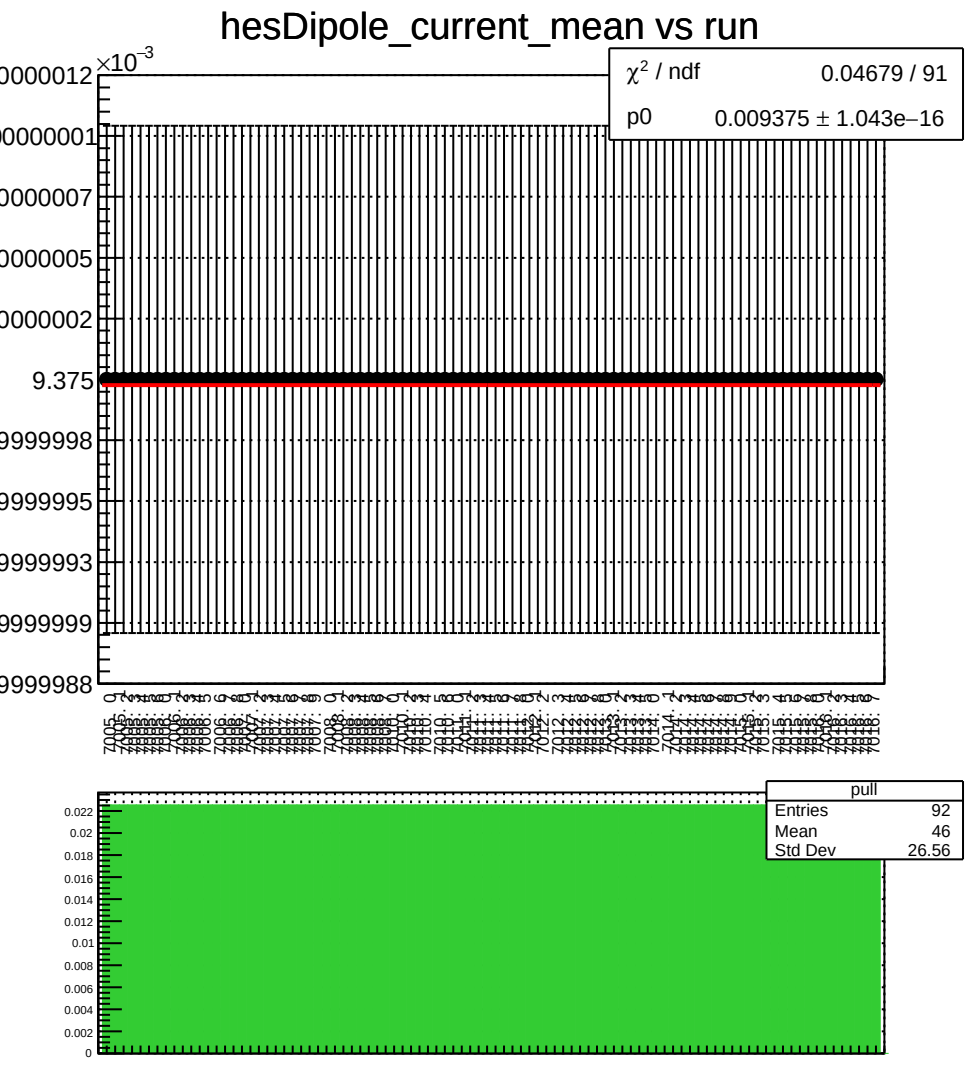

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.604e+26 / 91
p0 925 ± 1.043e−16
924.972
924.971
924.97
924.969
924.968
924.967
924.966
pull
Entries 92
Mean 4.224e+09
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000
−3000

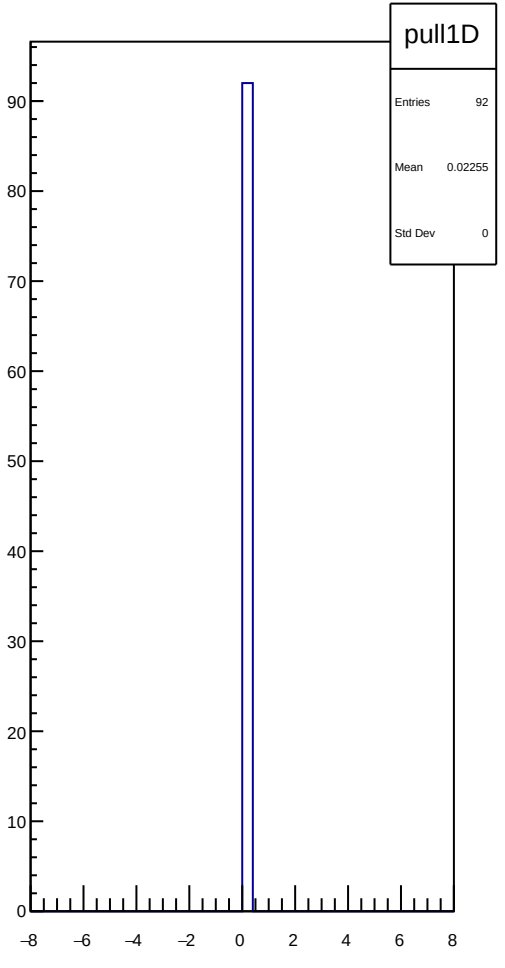

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

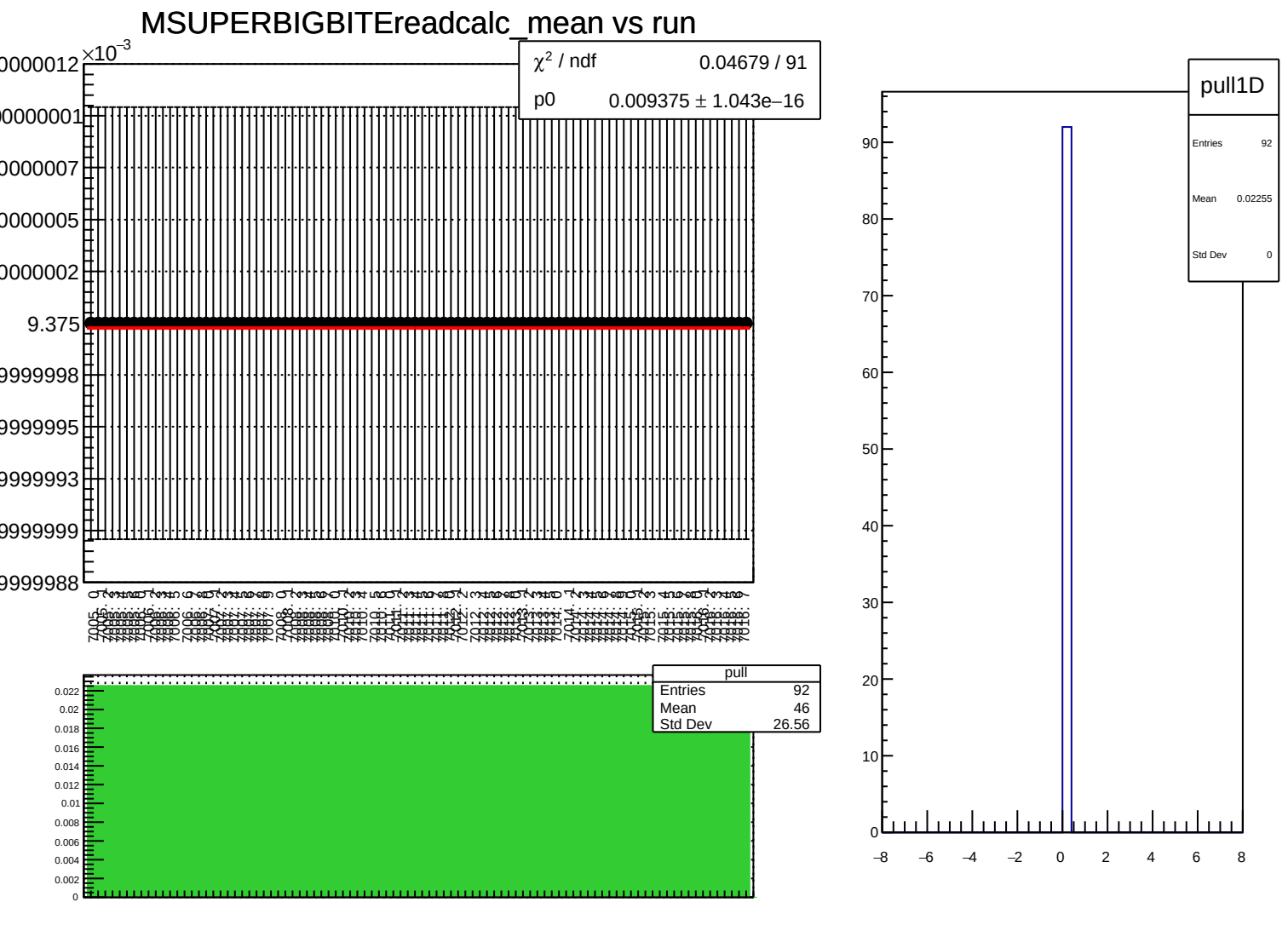

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.985e+24 / 91
p0 762.5 ± 1.043e−16
762.5068
762.5066
762.5064
762.5062
762.506
762.5058
762.5056
762.5054
×10⁹
400
200
0
−200
−400
−600
−800
pull
Entries 92
Mean −2.701e+09
Std Dev 0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

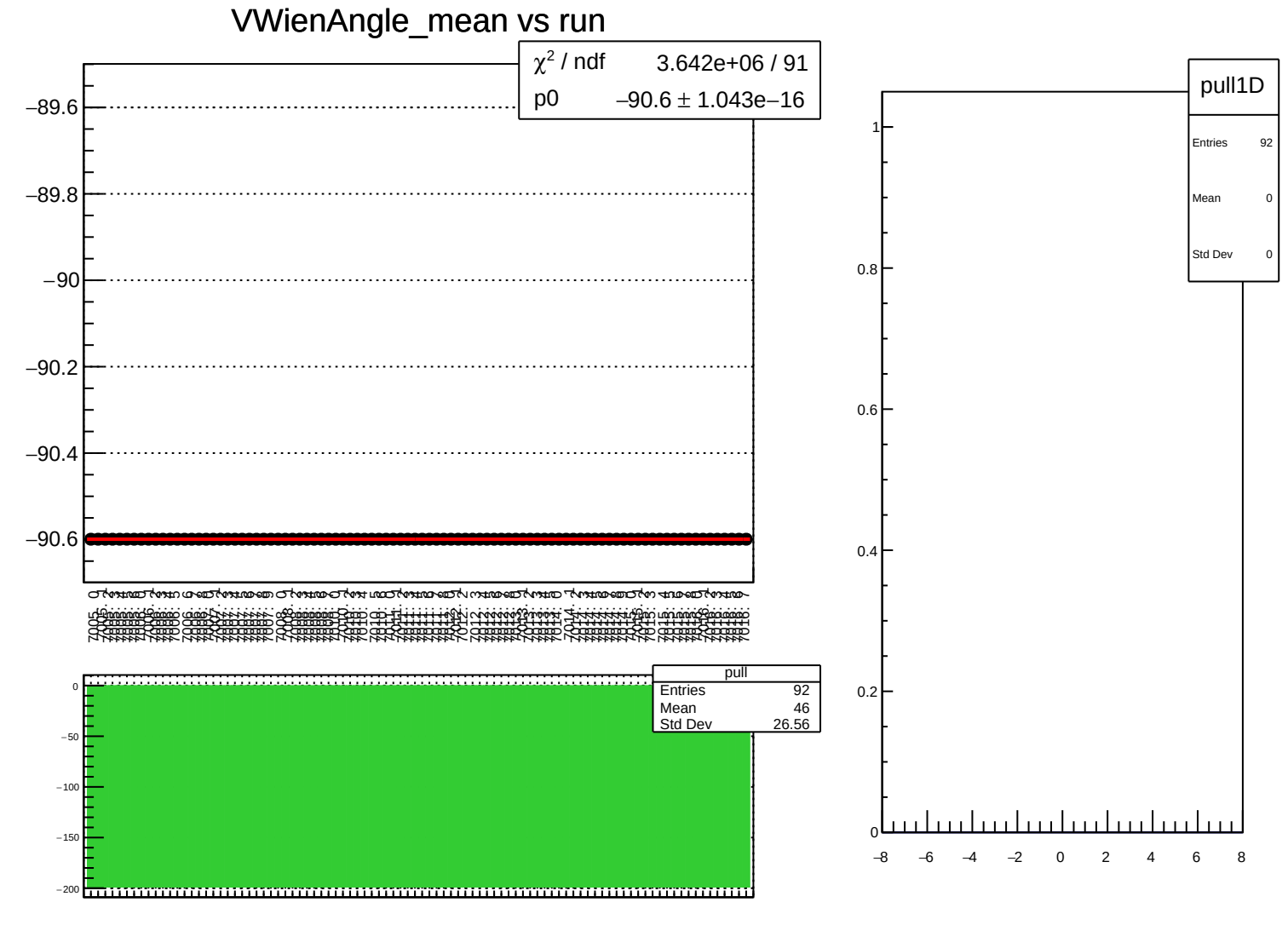

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.916e+26 / 91
p0 977.7 ± 1.043e−16
977.729
977.728
977.727
977.726
977.725
977.724
pull
Entries 92
Mean 4.517e+08
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000
−3000

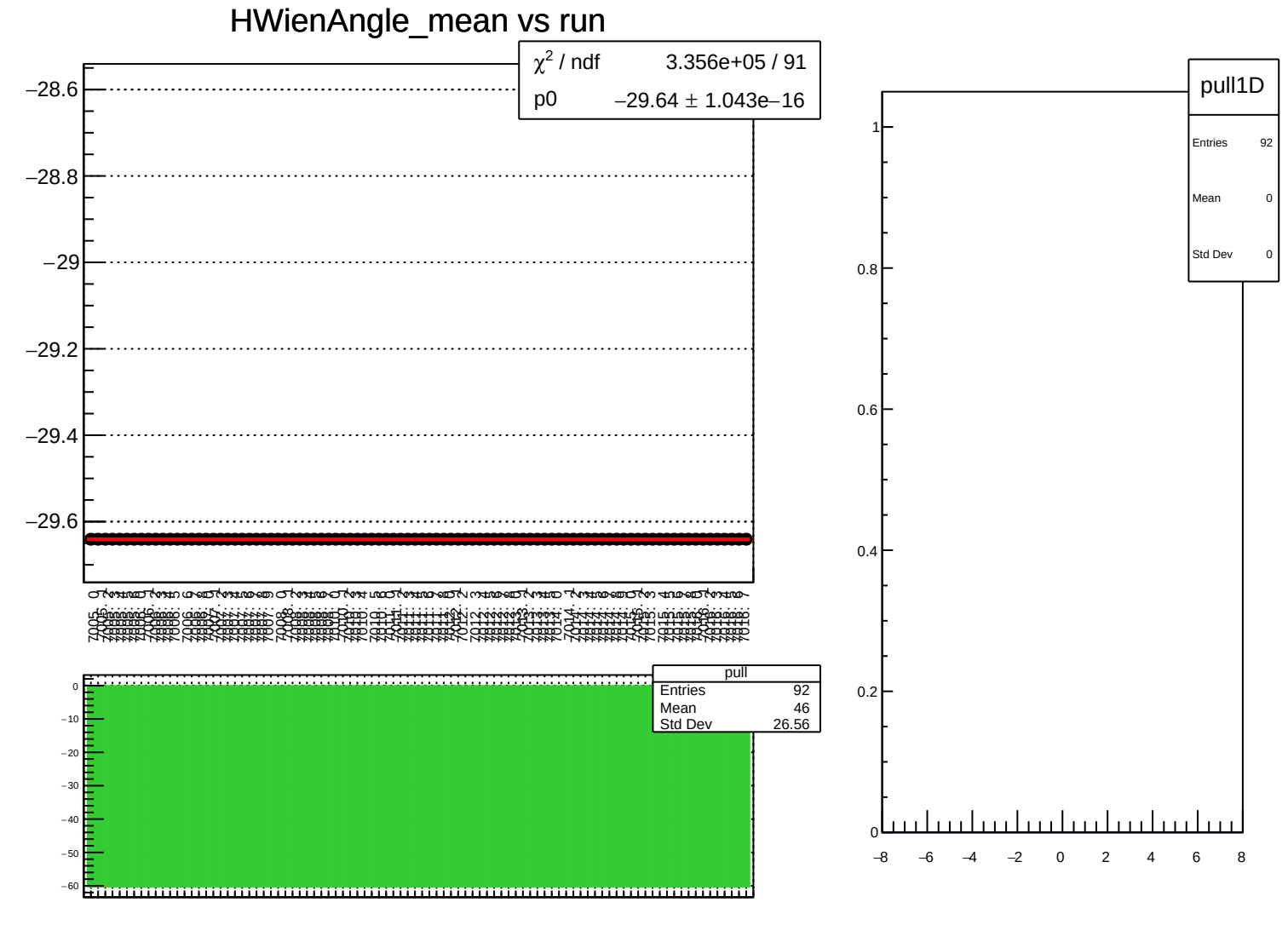

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

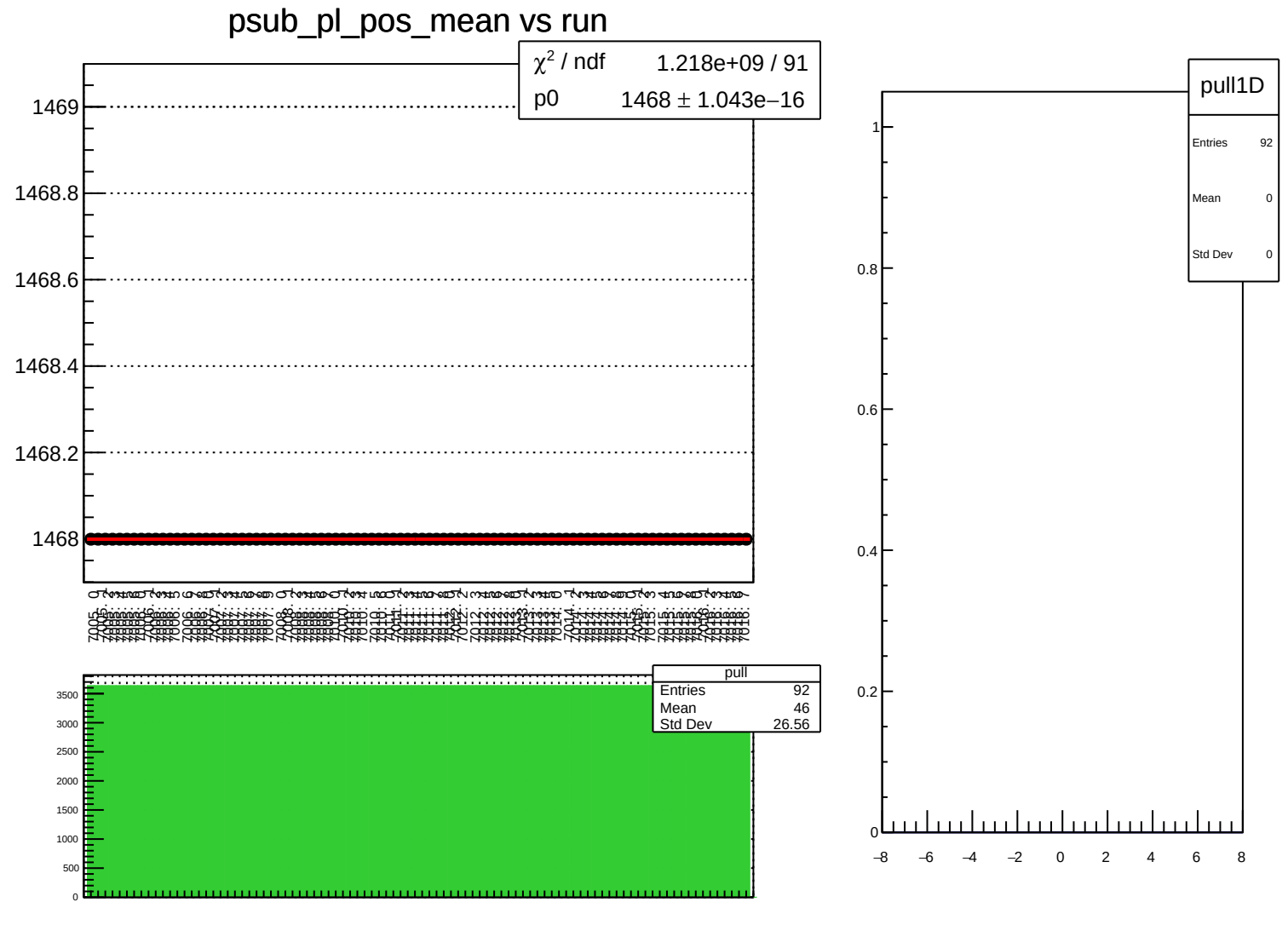

hesDipole_current_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56

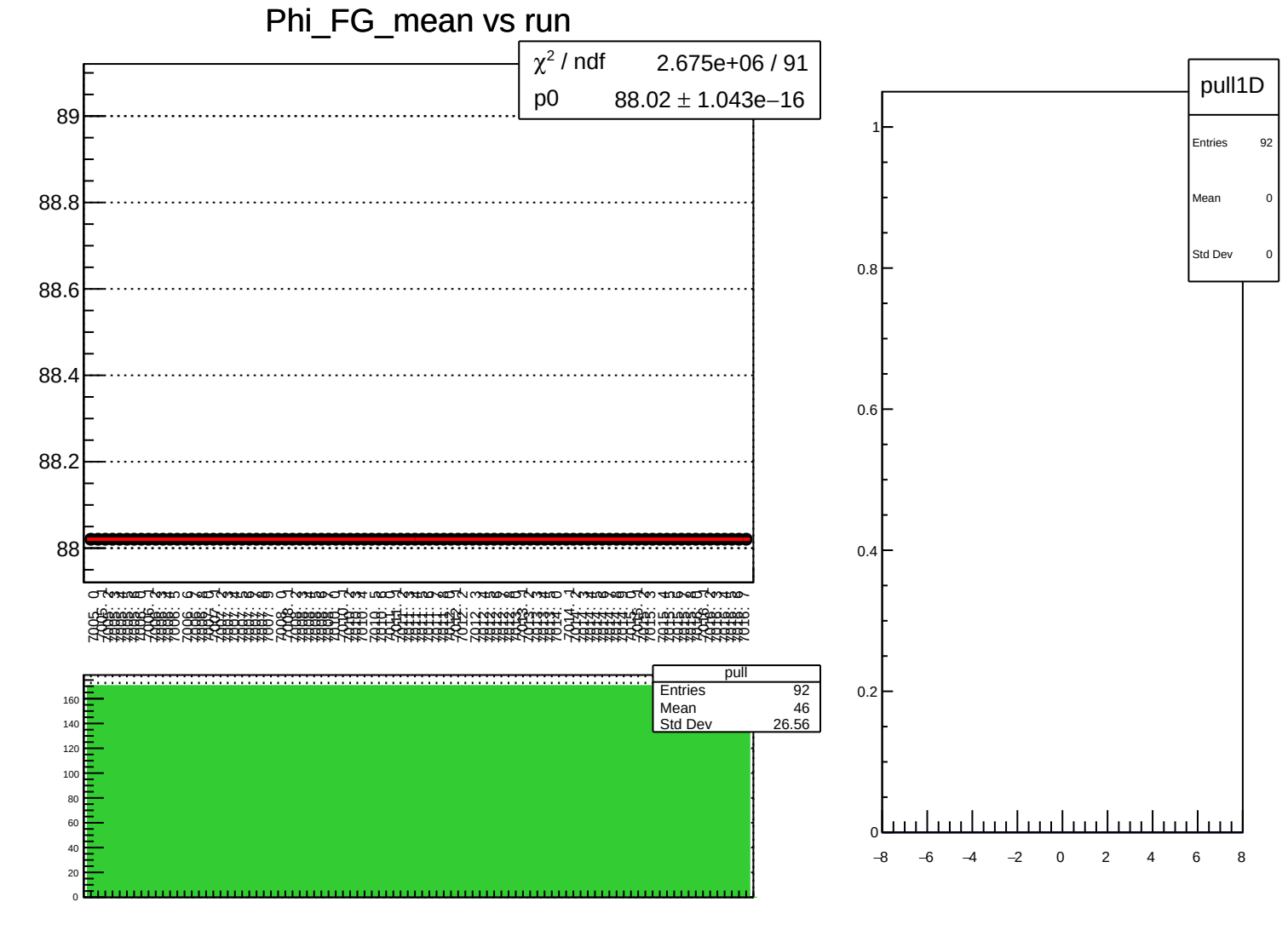

pull1D
Entries 92
Mean 0.02255
Std Dev 0

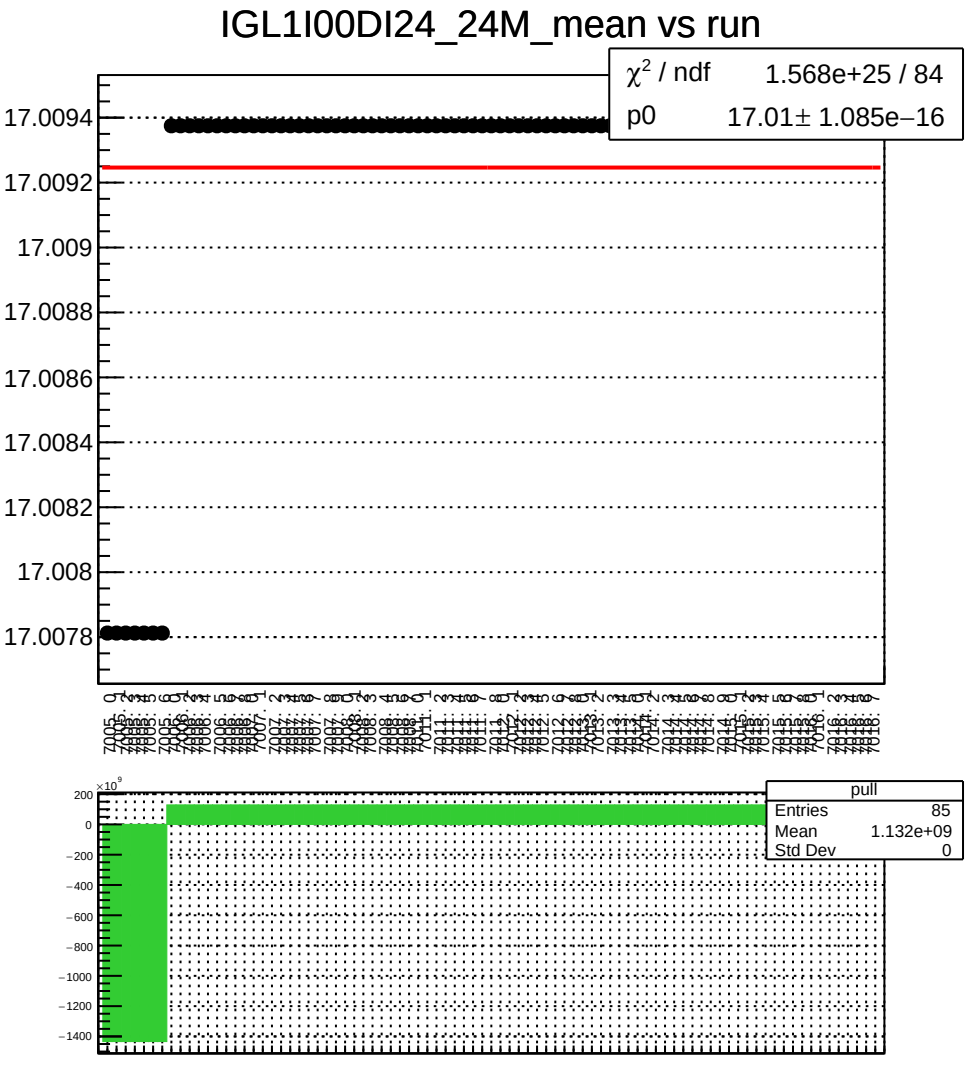

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
×10⁻³
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 0.02255
Std Dev 0

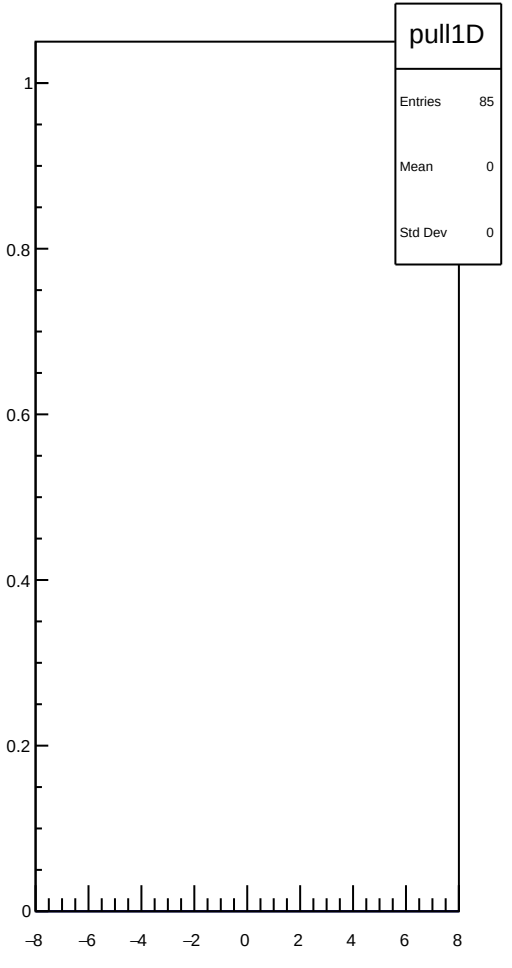

VWienAngle_mean vs run
χ² / ndf 3.642e+06 / 91
p0 −90.6 ± 1.043e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 92
Mean 46
Std Dev 26.56
0
−50
−100
−150
−200
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

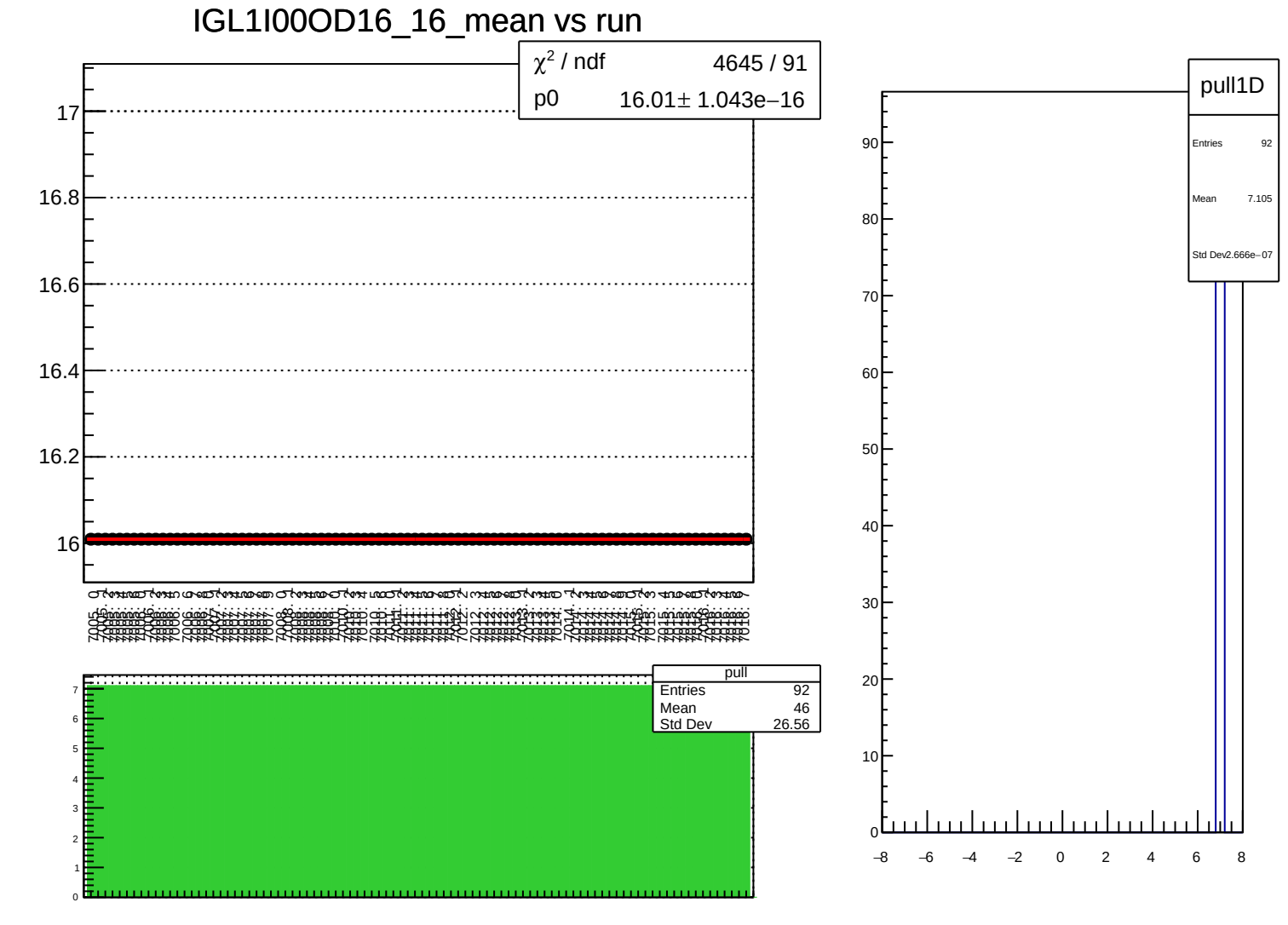

HWienAngle_mean vs run
χ² / ndf 3.356e+05 / 91
p0 −29.64 ± 1.043e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 92
Mean 46
Std Dev 26.56
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

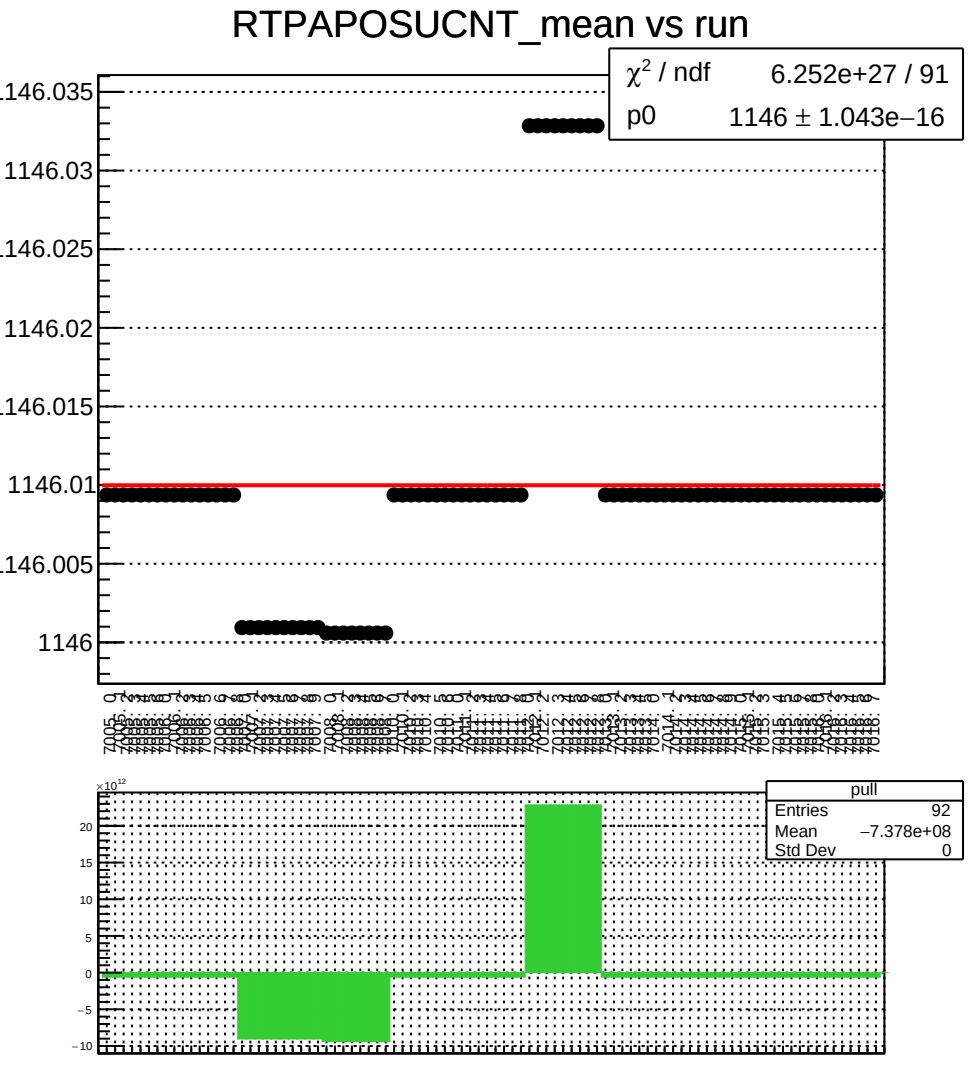

psub_pl_pos_mean vs run
χ² / ndf 1.218e+09 / 91
p0 1468 ± 1.043e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 92
Mean 46
Std Dev 26.56
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

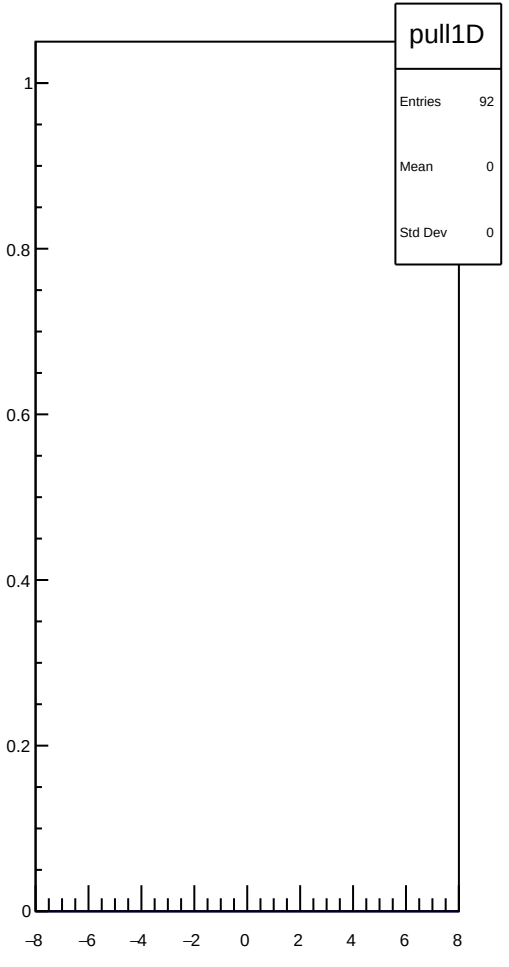

Phi_FG_mean vs run
χ² / ndf 2.675e+06 / 91
p0 88.02 ± 1.043e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 92
Mean 46
Std Dev 26.56
160
140
120
100
80
60
40
20
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

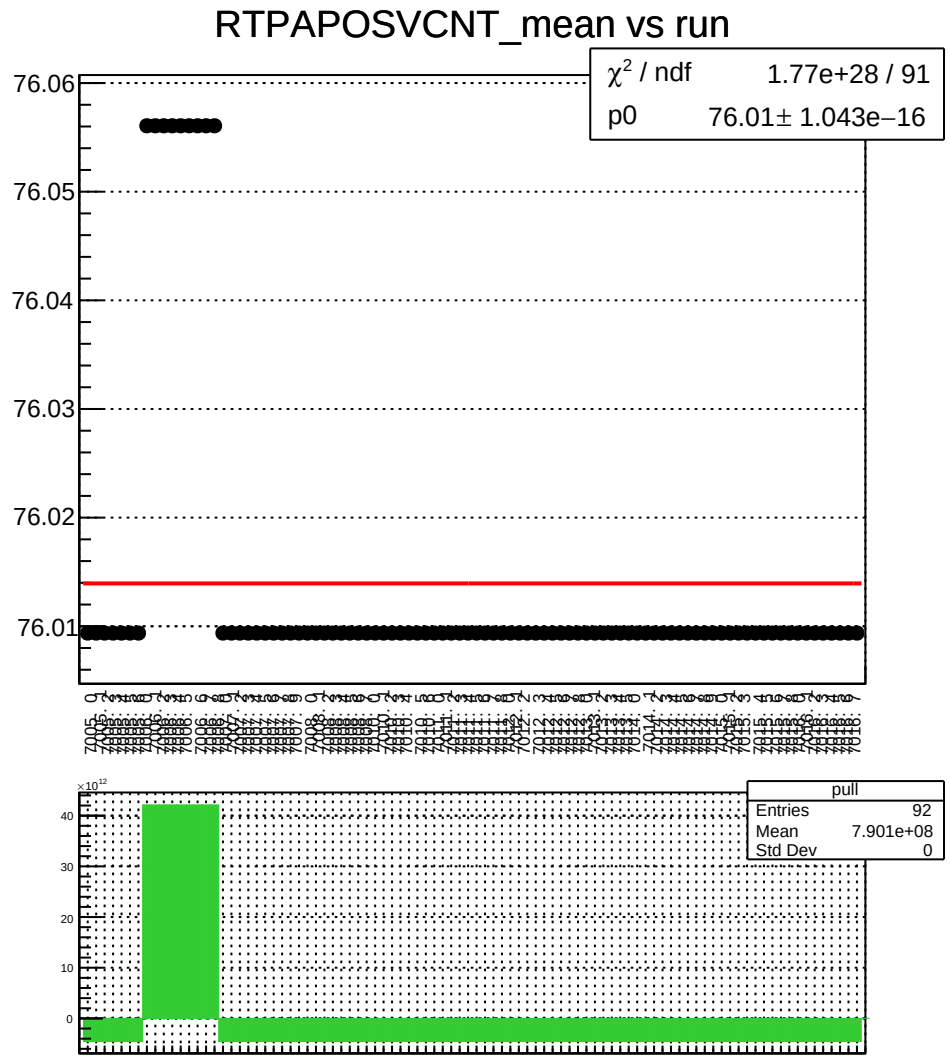

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.568e+25 / 84
p0 17.01± 1.085e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 85
Mean 1.132e+09
Std Dev 0
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400

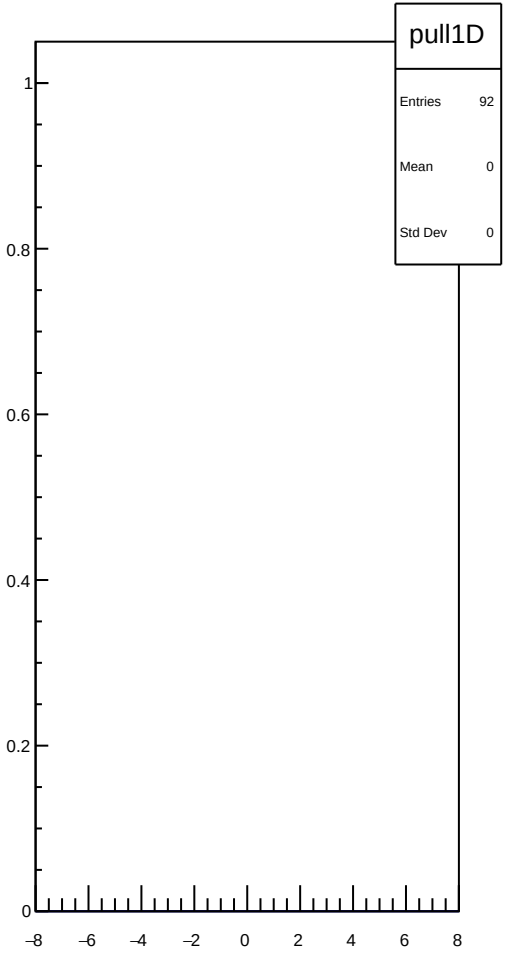

pull1D
Entries 85
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

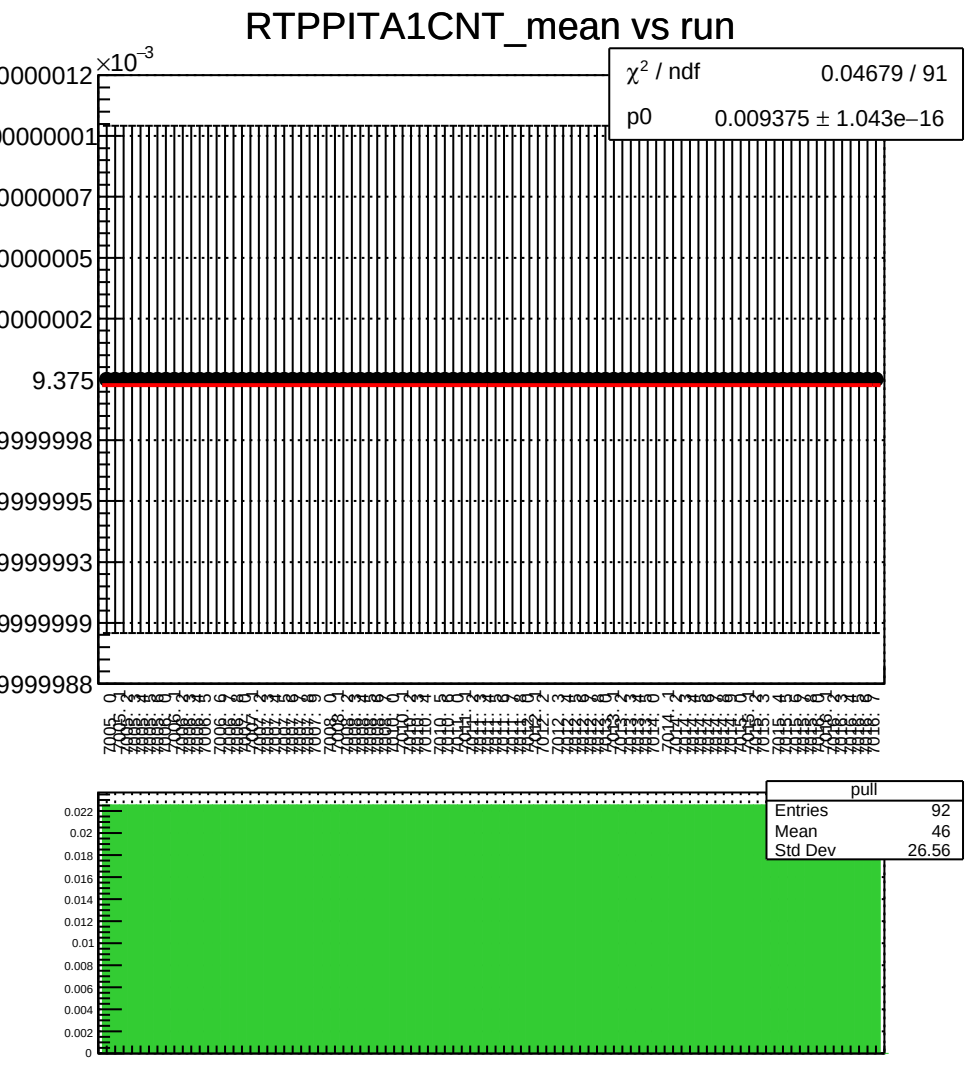

IGL1I00OD16_16_mean vs run
χ² / ndf 4645 / 91
p0 16.01± 1.043e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 92
Mean 46
Std Dev 26.56
7
6
5
4
3
2
1
0
pull1D
Entries 92
Mean 7.105
Std Dev2.666e−07
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

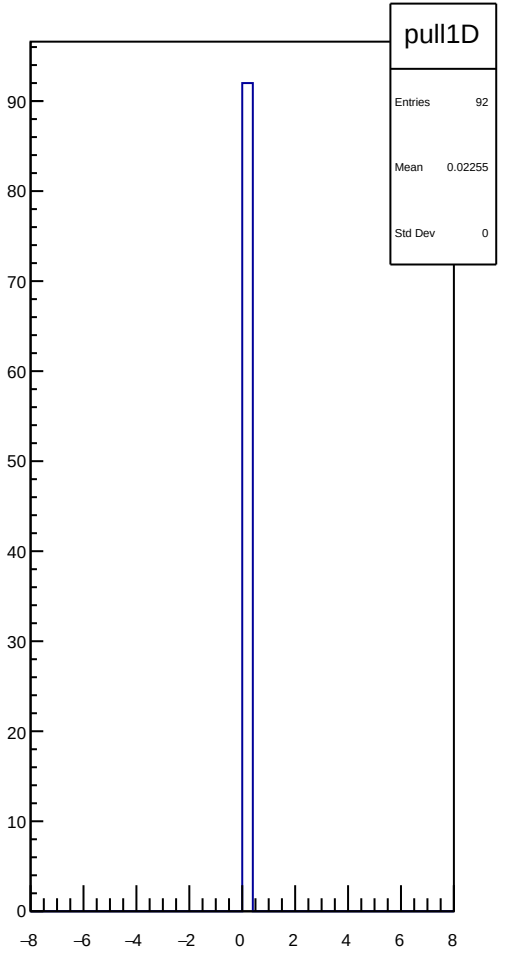

RTPAPOSUCNT_mean vs run
χ² / ndf 6.252e+27 / 91
p0 1146 ± 1.043e−16
1146.035
1146.03
1146.025
1146.02
1146.015
1146.01
1146.005
1146
pull
Entries 92
Mean −7.378e+08
Std Dev 0
×10¹²
20
15
10
5
0
−5
−10

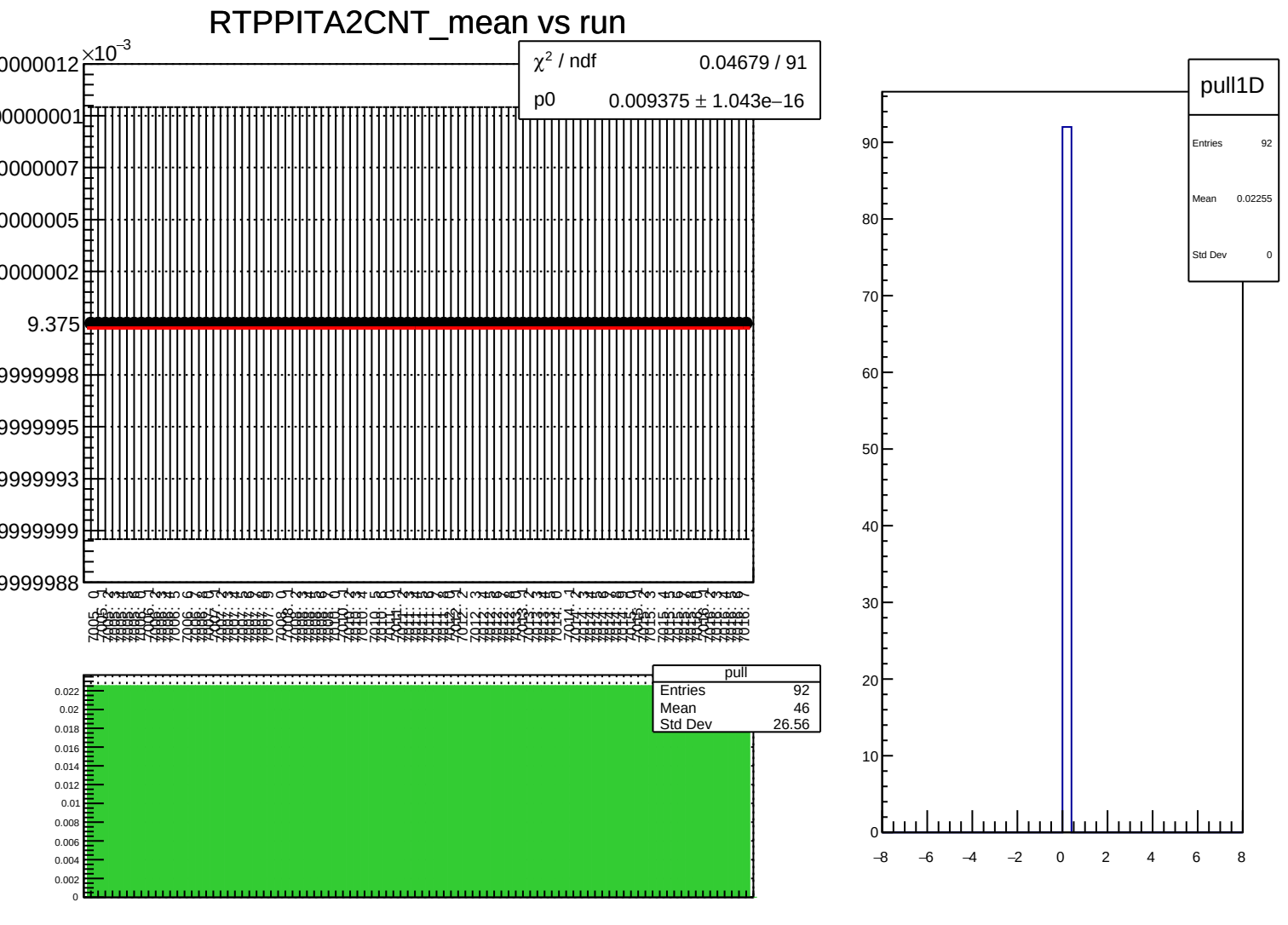

pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 1.77e+28 / 91
p0 76.01± 1.043e−16
76.06
76.05
76.04
76.03
76.02
76.01
pull
Entries 92
Mean 7.901e+08
Std Dev 0
×10¹²
40
30
20
10
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


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